



CITY OF FISHERS AGENDA

BOARD/COMMISSION: Planned Unit Development (PUD) Committee Meeting

DATE: 5/1/2024, at 5:00 PM

DIRECTIONS: Launch Fishers Theater , 12175 Visionary Way, Fishers, IN 46038

In accordance with the Americans with Disabilities Act (ADA), the City of Fishers will, upon request, provide appropriate aid and/or assistance leading to effective participation for people with disabilities. Anyone who requires such assistance should contact Kelly Lewark, Office Manager, no later than forty-eight (48) hours before the scheduled event at (317) 595-3487 or via email at lewarkk@fishers.in.us.

Members of the public can [submit comments to the board via form submittal](#) before 12pm on the day of the meeting.

Members of the public may [stream the live meeting](#) online.

1. Regular PUD Committee

- a. Howard Stevenson, Pete Peterson, Shawn Curran, Emily Bowman, Megan Baumgartner
- b. **Atwell Suites Saxony**
Parcel: 19-11-26-00-00-011.703
Case: PUD-24-3Request: Request to approve the architecture for a new hotel within the Saxony PUD, generally located west of MindenDrive and south of Erlen Drive.
Petitioner: Jason Miller, (jmiller@rmasurveying.com)
Planner: Gabrielle Herin, Senior Planner (hering@fishers.in.us)
- c. **Milford Park Amenity Center**
Parcel: 13-12-31-00-00-036.000
Case: PUD-24-6
Request: Request to approve the architecture for a new pool house and pool within the Milford Park PUD, generally located east of Florida Road and north of E. 113th Street.

Petitioner: Kyle Eichhorn, (keichhorn@hwcengineering.com)
Planner: Gabrielle Herin, Senior Planner (hering@fishers.in.us)

d. **Courtyards of Fishers Home and Clubhouse Elevations**

Parcel: 13-16-05-00-12-020.000

Case: PUD-24-7

Request: Consideration of the new Capri home and Lounge clubhouse elevations within the Courtyards of Fishers PUD, generally located north of E. 113th Street and west of Southeastern Parkway.

Petitioner: Mark Leach, (mark.leach@faegredrinker.com)

Planner: Gabrielle Herin, Senior Planner (hering@fishers.in.us)

e. **Lincoln Square Pancake House**

Parcel: 15-15-07-00-00-016.010

Case: PUD-24-2

Request: Request to approve architecture for a new restaurant tenant within the Lantern Pines PUD, generally located north of E. 96th Street between Lantern Rd. and Fitness Ln.

Petitioner: James Lingenfelter, on behalf of the property owner
(jimlingenfelter@five2fivedesign.com)

Planner: Christy Cashin, Senior Planner (cashinc@fishers.in.us)

f. **Samuel's Auto CONTINUED**

Parcel: 15-11-19-00-00-019.601

Case: PUD-24-5Request: Request to approve architecture for a new mixed-use building within the Fishers Trade Center PUD, generally located west of State Road 37 between E. 141st St. and E. 135th St.

Petitioner: Brent White, on behalf of the property owner (baw@deboyland.com)

Planner: Christy Cashin, Senior Planner (cashinc@fishers.in.us)

2. Riverplace PUD Committee

a. Howard Stevenson, John Weingardt, Elliott Hultgren, Shawn Curran, Drew Bender

b. None

3. Staff Communication

EXTERIOR FINISH LEGEND			
TAG #	MATERIAL	COLOR	TOTAL SF = 34,043 SF
BRICK-1	UTILITY BRICK	COLOR TO MATCH DRYVIT "DOVER SKY" (SHERWIN WILLIAMS CHEV10T SW9503)	9,598 SF (28.2%)
BRICK-2	UTILITY BRICK	COLOR TO MATCH DRYVIT "IRISH COFFEE" (SHERWIN WILLIAMS SPICED CIDER SW7702)	13,660 SF (40.1%)
EIFS-3	EIFS	COLOR TO MATCH SHERWIN WILLIAMS IRON ORE SW7069	7,670 SF (22.5%)
EIFS-2	EIFS	COLOR TO MATCH DRYVIT "IRISH COFFEE" (SHERWIN WILLIAMS SPICED CIDER SW7702)	948 SF (2.8%)
FC-3	FIBER CEMENT	COLOR TO MATCH SHERWIN WILLIAMS IRON ORE SW7069	1,865 SF (5.5%)
EM-4	PORCELAIN TILE	CMC MOTIVATE WALNUT MATTE FINISH	301 SF (0.9%)



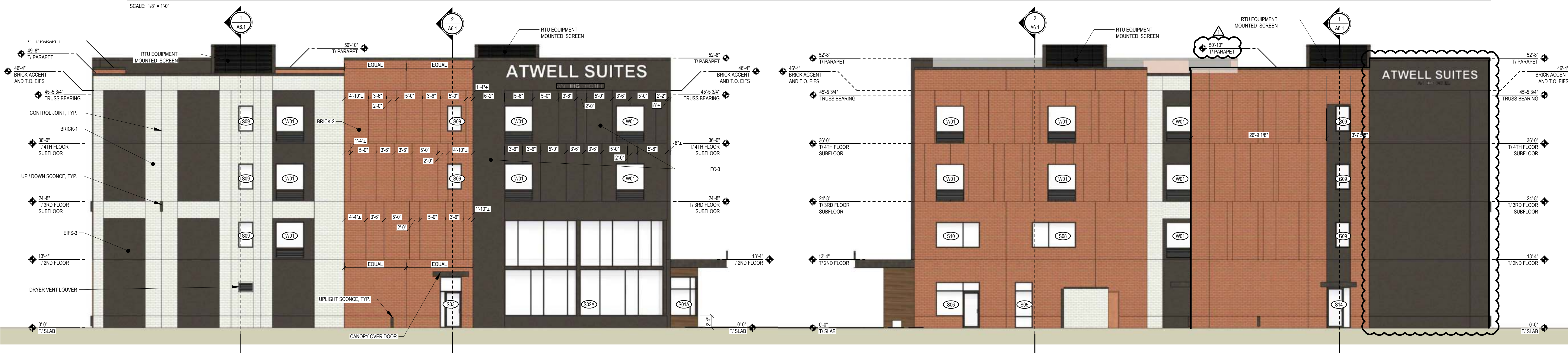
WEST BUILDING ELEVATION

SCALE: 1/8" = 1'-0"



EAST BUILDING ELEVATION

SCALE: 1/8" = 1'-0"

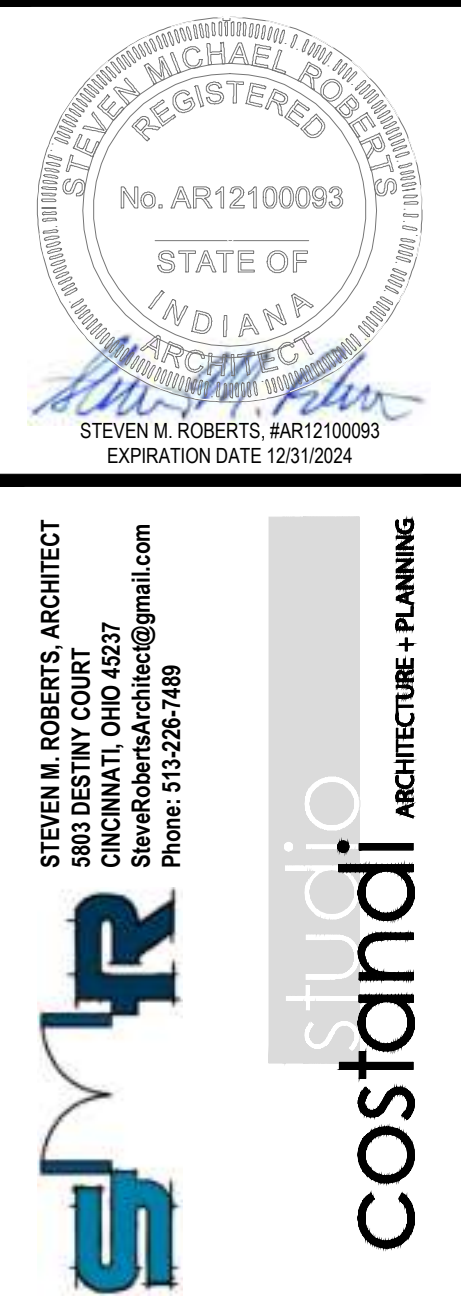


NORTH BUILDING ELEVATION

SCALE: 1/8" = 1'-0"

SOUTH BUILDING ELEVATION

SCALE: 1/8" = 1'-0"



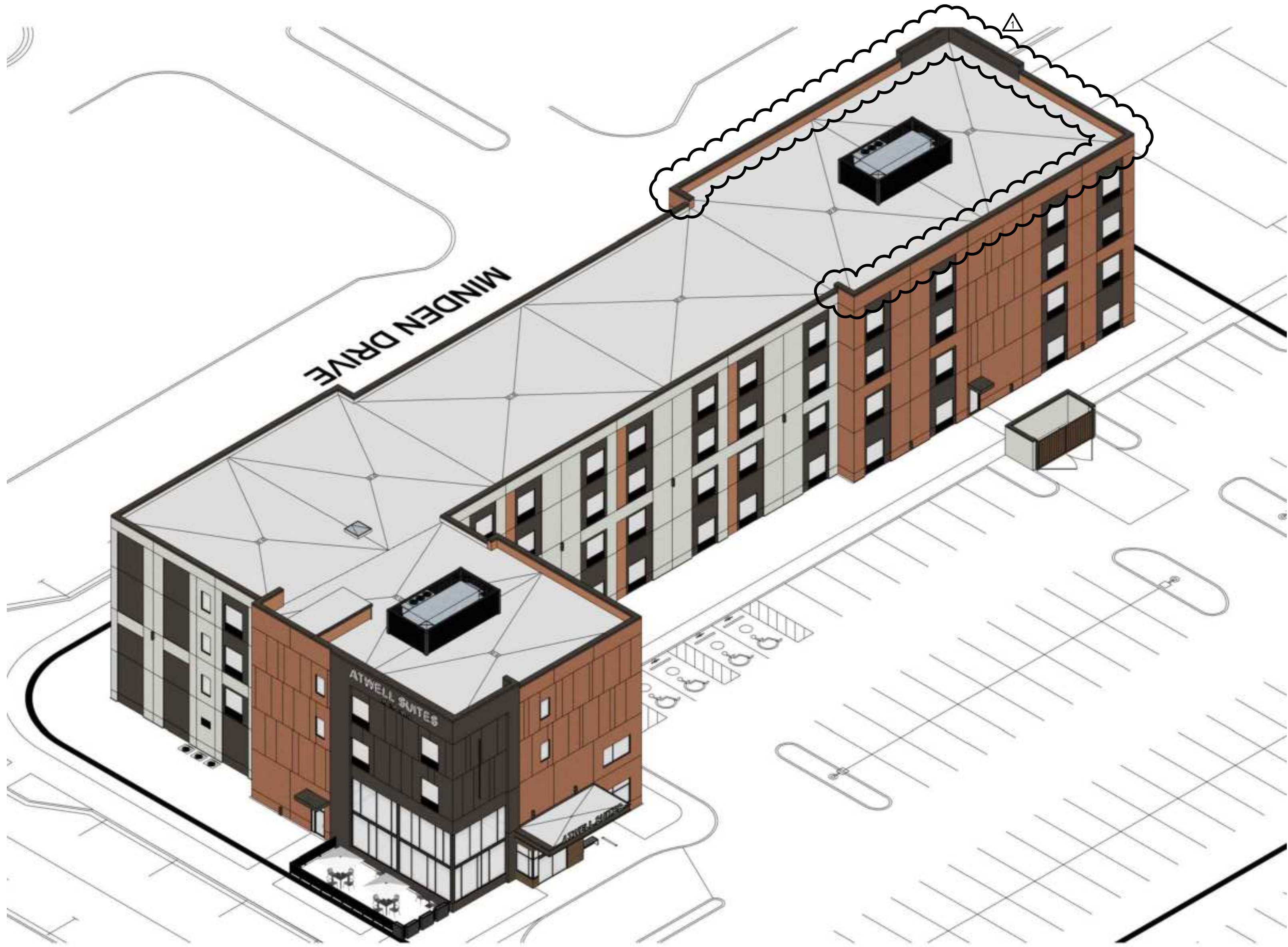
ATWELL SUITES
AN IHG HOTEL
ERLEN DR. & MINDEN DR. FISHERS, INDIANA 46037 HAMILTON COUNTY

BUILDING ELEVATIONS

ISSUE / REVISION DATE:	
05/04/2022	OWNER REVIEW
06/23/2022	OWNER REVIEW
08/04/2022	PRELIMINARY REVIEW
01/13/2023	FRANCHISE REVIEW
04/21/2023	FRANCHISE REVIEW
05/17/2023	SAXONY DESIGN REVIEW 1
09/19/2023	HIS FINAL REVIEW
11/17/2023	SAXONY DESIGN REVIEW 2
01/26/2024	FOR CONSTRUCTION
04/10/2024	CLOUDED REVISION 1

SMR Project No. **AWSFIN**

A5.1



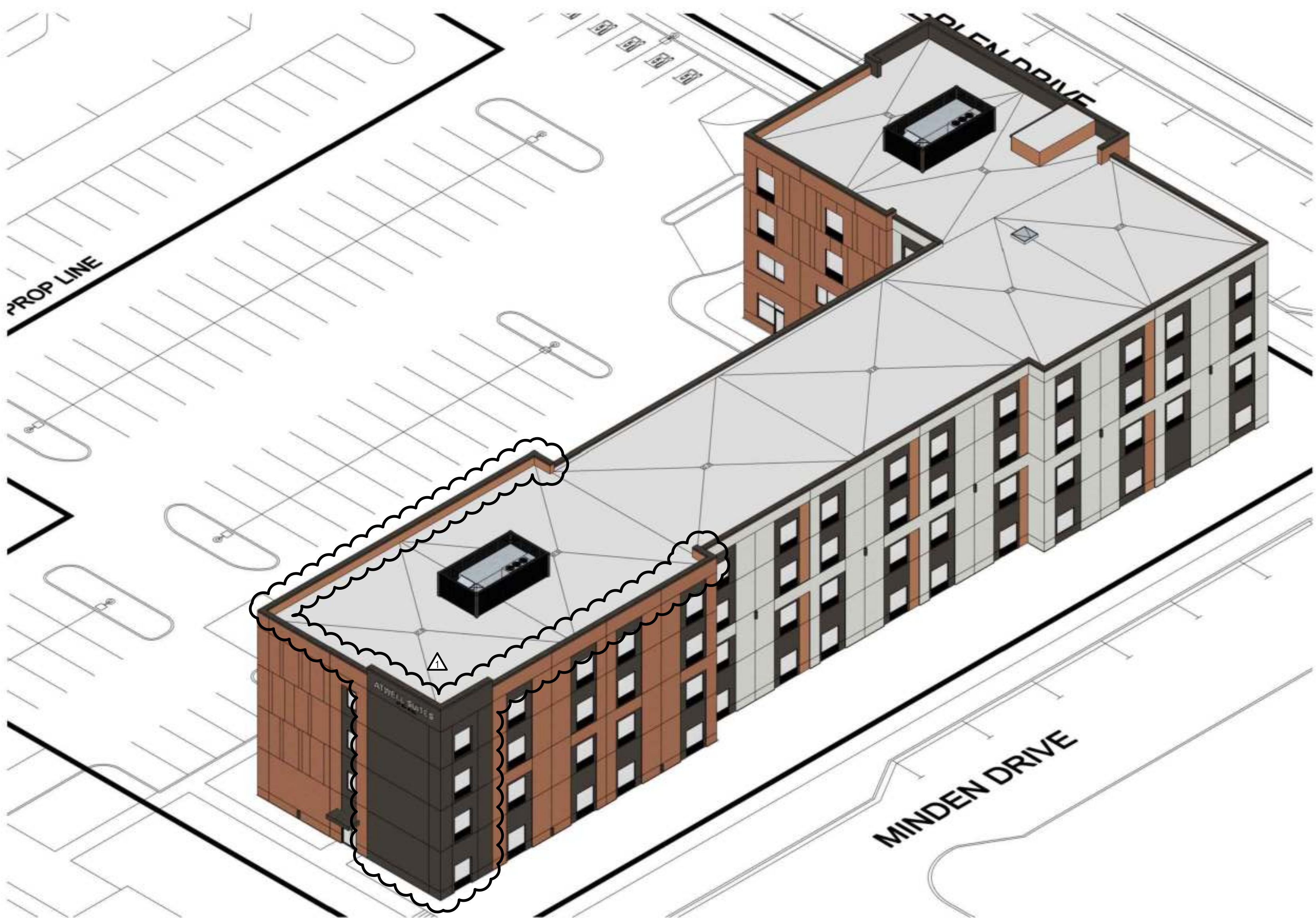
ISO VIEW: NORTHWEST CORNER LOOKING SOUTHEAST



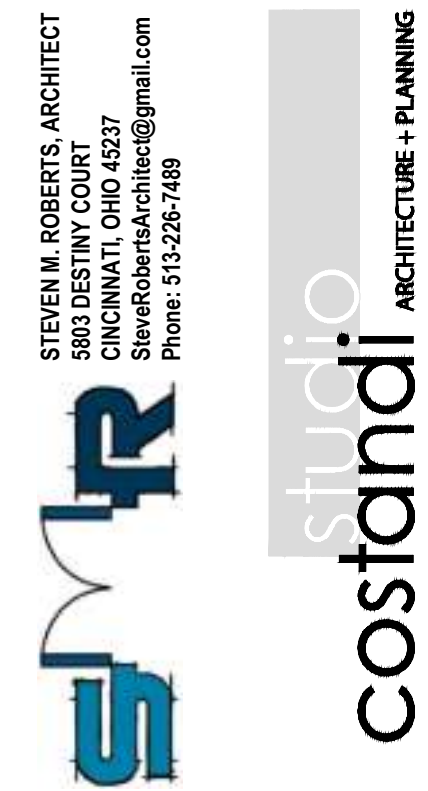
ISO VIEW: NORTHEAST CORNER LOOKING SOUTHWEST



ISO VIEW: SOUTHWEST CORNER LOOKING NORTHEAST



ISO VIEW: SOUTHEAST CORNER LOOKING NORTHWEST



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ISOMETRIC VIEWS

ISSUE / REVISION DATE:	
05/04/2022	OWNER REVIEW
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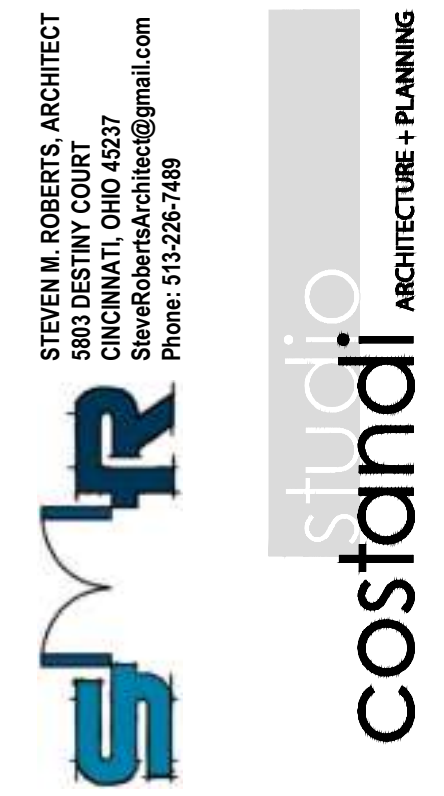
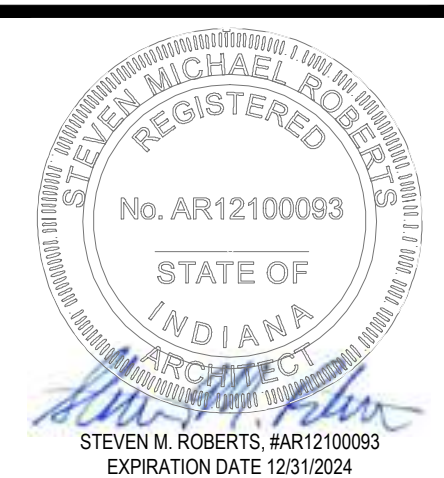
A5.2



3D VIEW: EYE LEVEL LOOKING AT NORTHWEST CORNER



3D VIEW: EYE LEVEL LOOKING AT NORTHEAST CORNER



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3D VIEWS

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● 01/26/2024	FOR CONSTRUCTION
● 04/10/2024	CLOUDED REVISION 1

SMR Project No. **AWSFIN**

A5.3



3D VIEW: EYE LEVEL LOOKING AT SOUTHWEST CORNER



3D VIEW: EYE LEVEL LOOKING AT SOUTHEAST CORNER

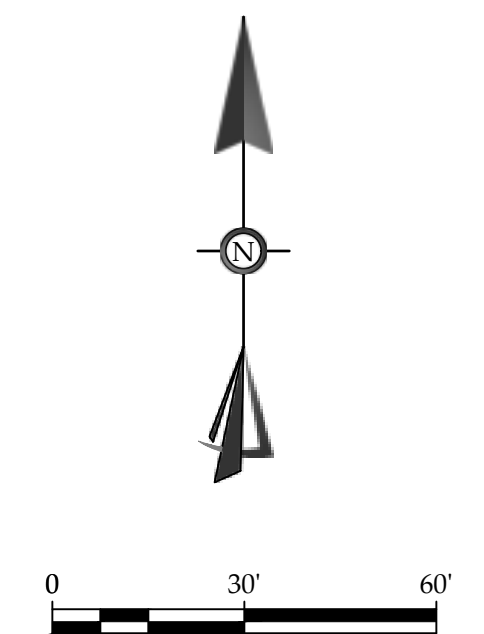
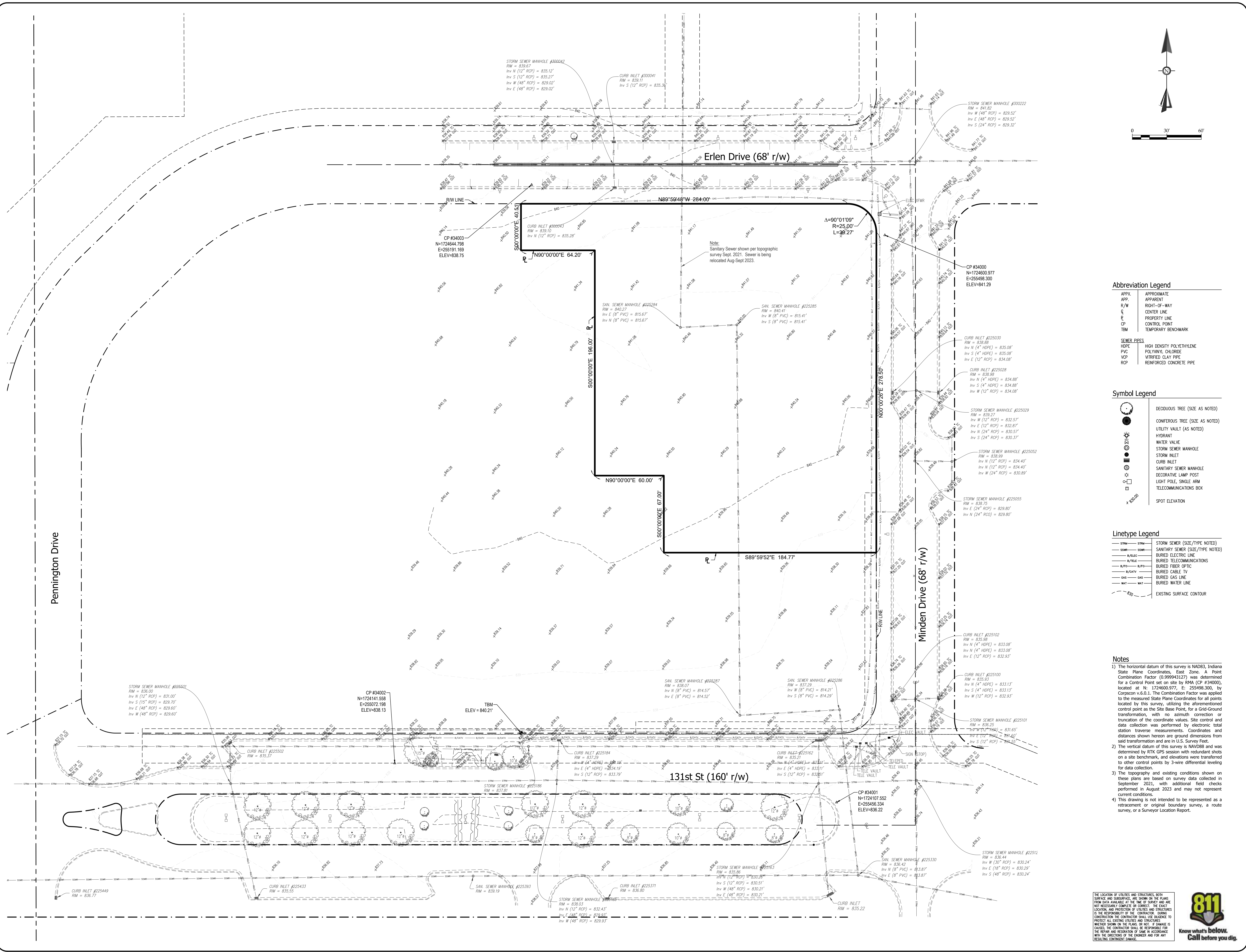


ATWELL SUITES
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ERLEN DR. & MINDEN DR. FISHERS, INDIANA 46037 HAMILTON COUNTY
3D VIEWS

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SMR Project No. **AWSFIN**

A5.4



Abbreviation Legend

APPR.	APPROXIMATE
APP.	APPARENT
R/W	RIGHT-OF-WAY
C	CENTER LINE
P	PROPERTY LINE
CP	CONTROL POINT
TEM	TEMPORARY BENCHMARK

SEWER PIPES

HDPE	HIGH DENSITY POLYETHYLENE
PVC	POLYVINYL CHLORIDE
VCP	VITRIFIED CLAY PIPE
RCP	REINFORCED CONCRETE PIPE

Symbol Legend

	DECIDUOUS TREE (SIZE AS NOTED)
	CONIFEROUS TREE (SIZE AS NOTED)
	UTILITY VAULT (AS NOTED)
	HYDRANT
	WATER VALVE
	STORM SEWER MANHOLE
	CURB INLET
	SANITARY SEWER MANHOLE
	DECORATIVE LAMP POST
	LIGHT POLE, SINGLE ARM
	TELECOMMUNICATIONS BOX
	SPOT ELEVATION

Linetype Legend

STW	STORM SEWER (SIZE/TYPER NOTED)
SSW	SANITARY SEWER (SIZE/TYPER NOTED)
B/ELEC	BURIED ELECTRIC LINE
B/TELE	BURIED TELECOMMUNICATIONS
B/FO	BURIED FIBER OPTIC
B/CATV	BURIED CABLE TV
B/GAS	BURIED GAS LINE
B/WAT	BURIED WATER LINE
ESD	EXISTING SURFACE CONTOUR

Notes

1) The horizontal datum of this survey is NAD83, Indiana State Plane Coordinates, East Zone. A Point Combination Factor (0.999943127) was determined for a Control Point set on site by RMA (CP #34000), located at N: 1724600.977, E: 255496.300, by Corpcor v6.0.1. The Combination Factor was applied to the measured State Plane Coordinates for all points located by this survey, utilizing the aforementioned control point as the Site Base Point, for a Grid-ground transformation, with no azimuth correction or truncation of the coordinate values. Site control and data collection was performed by electronic total station traverse measurements. Coordinates and distances shown hereon are ground dimensions from said transformation and are in U.S. Survey Feet.

2) The vertical datum of this survey is NAVD88 and was determined by RTK GPS session with redundant shots on a site benchmark, and elevations were transferred to other control points by 3-wire differential leveling for data collection.

3) The topography and existing conditions shown on these plans are based on survey data collected in September 2021, with additional field checks performed in August 2023 and may not represent current conditions.

4) This drawing is not intended to be represented as a retracement or original boundary survey, a route survey, or a Surveyor Location Report.

THE LOCATION OF UTILITIES AND STRUCTURES, BOTH SUBSURFACE AND SURFACE, ARE SHOWN ON THE PLANS FROM DATA AVAILABLE AT THE TIME OF SURVEY AND ARE NOT NECESSARILY COMPLETE OR CORRECT. THE EXACT LOCATION AND PROTECTION OF UTILITIES AND STRUCTURES IS THE RESPONSIBILITY OF THE CONTRACTOR. BEFORE CONSTRUCTION THE CONTRACTOR SHALL USE DILIGENCE TO PROTECT ALL EXISTING UTILITIES AND STRUCTURES WHETHER SHOWN ON THE PLANS OR NOT. IF DAMAGE IS CAUSED, THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE REPAIR AND RESTORATION TO THE ORIGINAL CONDITION WITH THE DIRECTION OF THE ENGINEER AND FOR ANY RESULTING CONTINGENT DAMAGES.



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www.rmasurveying.com

JASON M. MILLER
REGISTERED
No. PE-10707416
STATE OF INDIANA
PROFESSIONAL ENGINEER

Jason Miller

JOB NO: 21-0189
DESIGNED BY: KAG
DRAWN BY: ALP
CHECKED BY: JMM
DATE: 2024-01-26

REVISIONS		
NO.	DATE	BY

EXISTING CONDITIONS

**ATWELL SUITES
AN IHG HOTEL**

**ERLEN DR & MINDEN
Dr FISHERS, IN**

HORIZONTAL SCALE
1" = 30'

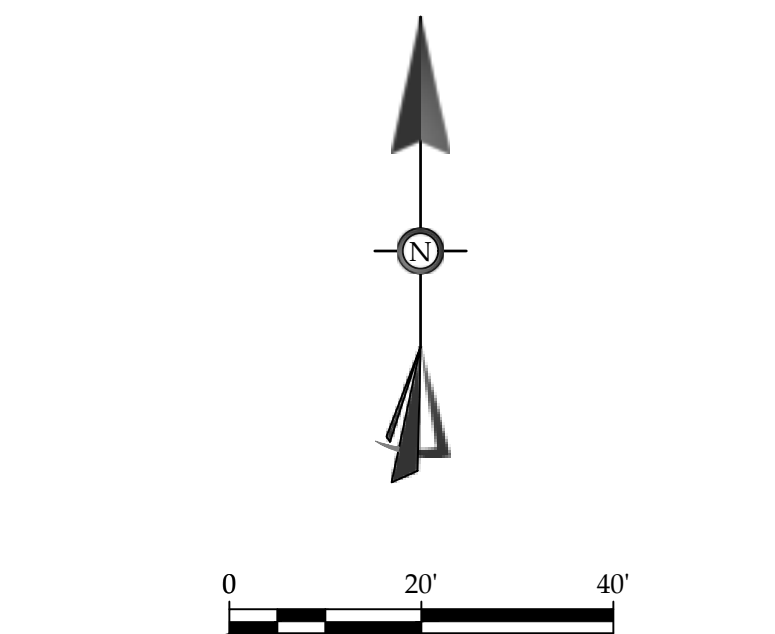
VERTICAL SCALE
1" = 10'

SHEET

C100

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Notes:

1. This drawing is not intended to be represented as a retracement or original boundary survey, a route survey, or a surveyor location report.
2. This drawing is based on survey data collected by RMA in September 2021 and may not represent current site conditions.

App.	-	Apparent
Appx	-	Approximate
CLL	-	Construction Limit Line
R/W	-	Right of Way
FL	-	Flow Line
TOB	-	Top of Bank
TOS	-	Toe of Slope
SG	-	Subgrade
FG	-	Finish Grade

* CLL indicates limits of grading and not necessarily limits of work area

- (A) Remove existing asphalt pavement. Base material to remain. Sawcut debris at edge of pavements to remain. Remove debris from site.
- (B) Remove existing concrete curb. Base material to remain. Sawcut cleanly at edge of curb to remain. Remove debris from site.
- (L) Remove and relocate existing light pole. Coordinate with City and/or utility provider.
- (T) Remove existing topsoil (full depth). Haul offsite.

[illegible]

DEMOLITION PLAN

ATWELL SUITES
AN IHG HOTEL

HORIZONTAL SCALE
1" = 20'
VERTICAL SCALE

SHEET

C110

THE LOCATION OF UTILITIES AND STRUCTURES, BOTH SURFACE AND SUBSURFACE, ARE SHOWN ON THE PLANS FROM DATA AVAILABLE AT THE TIME OF SURVEY AND ARE NOT NECESSARILY COMPLETE OR CORRECT. THE EXACT LOCATION, AND PROTECTION OF UTILITIES AND STRUCTURES IS THE RESPONSIBILITY OF THE CONTRACTOR. DURING CONSTRUCTION THE CONTRACTOR SHALL USE DILIGENCE TO PROTECT ALL EXISTING UTILITIES AND STRUCTURES WHETHER SHOWN ON THE PLANS, OR NOT. IF DAMAGE IS CAUSED, THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE REPAIR AND RESTORATION OF SAME IN ACCORDANCE WITH THE DIRECTIONS OF THE ENGINEER AND FOR ANY RESULTING CONTINGENT DAMAGE.

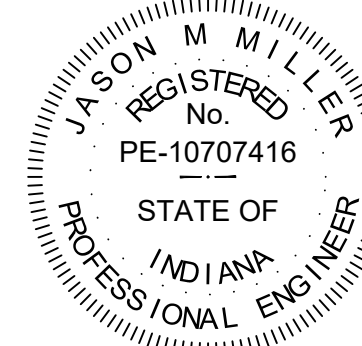


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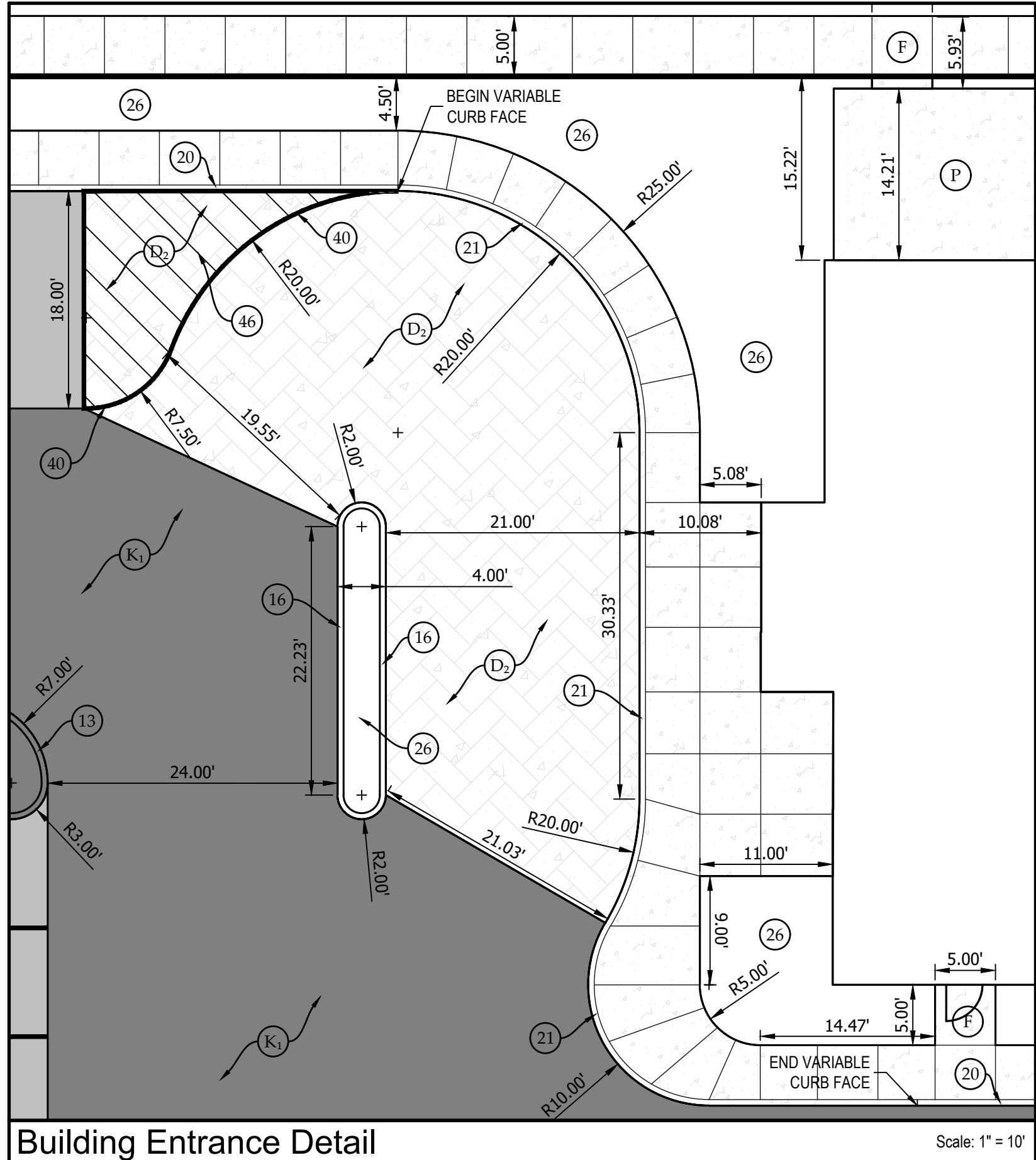
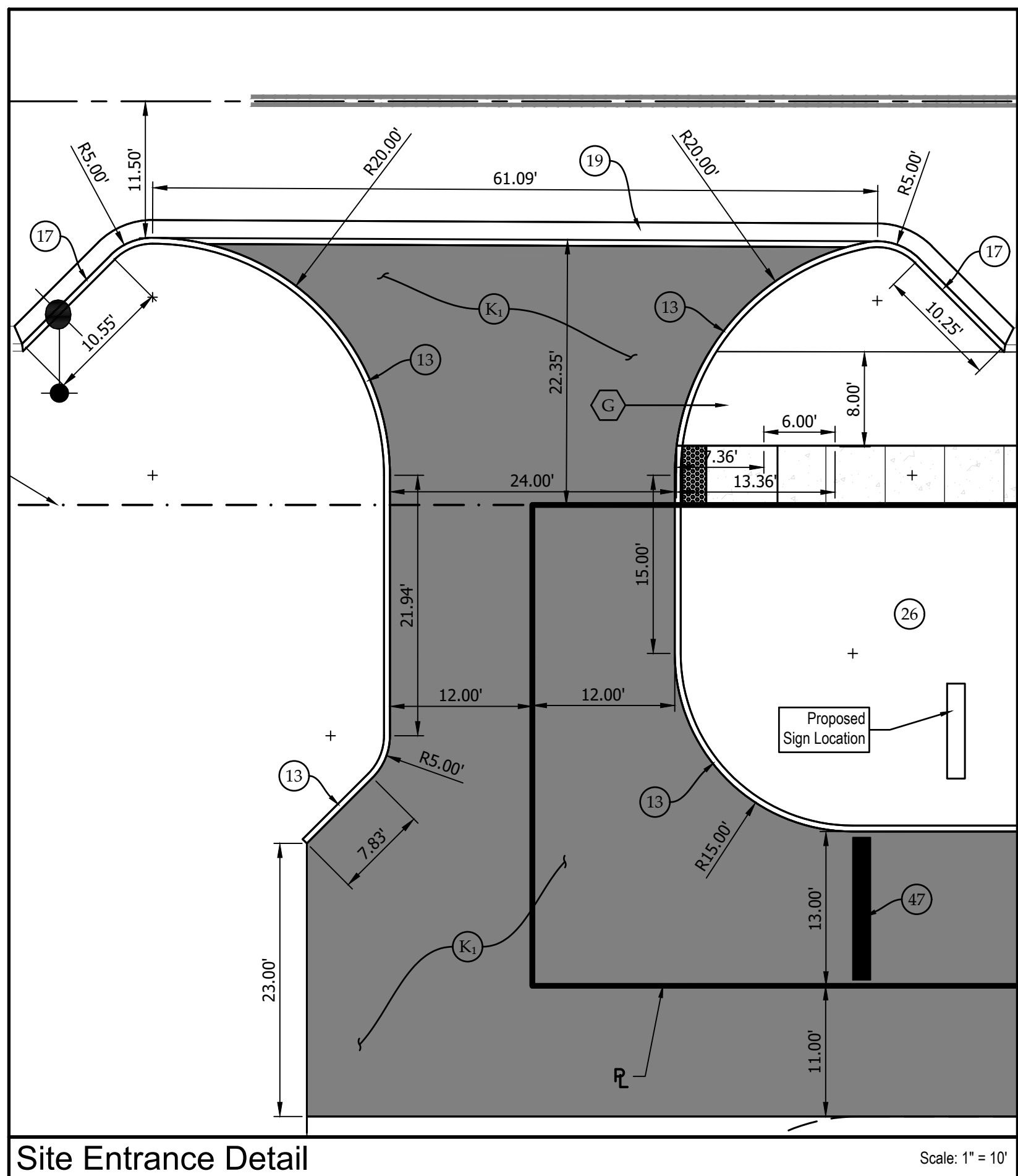
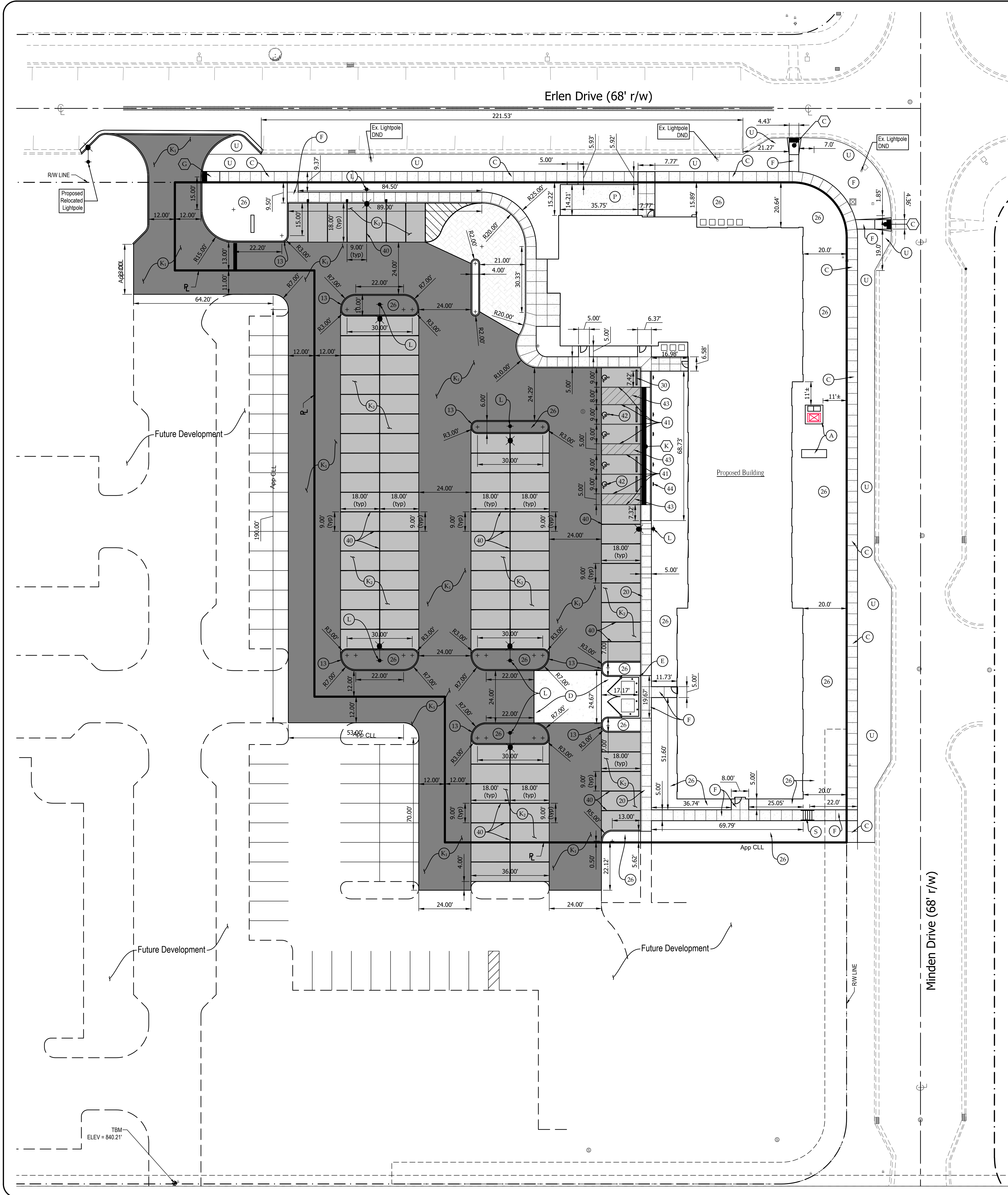
34 N. Main Street, Monticello, Indiana 47960
Ph: (574) 383-0478
monticello@rmasurveying.com



Jason Mitt

JOB NO: 21-0189
DESIGNED: KAG
DRAWN BY: APB
CHECKED BY: JMM
DATE: 2024-01-26

C:\USERS\JASONMILLER\DOCUMENTS\PROJECTS\SAXONY FISHERS HOTEL\21-0189 SAXONY\DWG\SHEETS\21-0189 DP.DWG



Site Layout General Notes

- Portions of site survey is shown lightly on this sheet for reference to show how proposed features will coincide with adjacent, existing features to remain.
- Unless otherwise noted, all dimensions are to face of curb, face of walk, etc. In areas where there is no curb or walk, dimensions are to edge of pavement.
- All edges of pavements are to be straight (or of consistent radius in the case of curves) as shown hereon. No unspecified tangents or deflections will be approved.
- Pavements to remain shall be protected or further removed as construction progresses to provide a clean transition between existing and final work of this contract.
- All asphalt to be compacted to a minimum of 94% of maximum density.
- Walks shall be divided into panels by expansion and contraction joints. Prior to the installation of concrete walks, the contractor shall submit plans or shop drawings indicating the intended locations of expansion and contraction joints for the walks if not shown on these plans. All jointing in walks shall be in accordance with the requirements otherwise detailed or noted.
 - Joints shall be spaced at approximately 5' (foot) intervals.
 - Whenever practicable, joints shall align with like joints in adjoining work.
 - No panel shall have an area exceeding 40 square feet.
 - Joints shall be parallel with or perpendicular to the center line of the walk.
 - Jointing layout shall avoid angles of less than 75 degrees.
 - Panel widths of less than 3 feet or more than 7 feet shall not be permitted and will not be approved.
 - Contraction joints shall be saw cut not more than 3/16" (inch) in width and shall be cut to a depth of at least 1/4 the thickness of the walk.
 - Expansion joints shall be placed at 25' (foot) intervals, be 1/2" (inch) wide unless otherwise specified, shall be the full thickness of the walk, and shall be of pre-formed expansion joint material. Expansion material secured in a manner that will prevent movement or displacement during the placement of the concrete. Expansion joints shall be placed in the following locations:
 - along any abutting masonry (w/o dowel)
 - along the foundation of any building (w/o dowel)
 - along concrete curb
 - at the intersection of two public walks
 - around any concrete base or structure (w/o dowel)
 - Sawing of joints shall be conducted as soon as the condition of the concrete permits and before any random cracking occurs.

Common Abbreviation Legend

App	-	Apparent
Apex	-	Approximate
CLL	-	Construction Limit Line
RW	-	Right of Way
FL	-	Flow Line
TOB	-	Top of Bank
TOS	-	Toe of Slope
SG	-	Subgrade
FG	-	Finish Grade

* CLL indicates limits of grading and not necessarily limits of work area.

Site Layout Keynotes

(A) Concrete Pad for Transformer
(Per Utility Provider specifications)

(C) Concrete Sidewalk, 4 in. (Treslaw)

- 4" PCPP with fibermesh, on
- 4" Compacted Aggregate #53, on
- Compacted Subgrade

(D) Concrete Pavement

- 8" PCPP with #4 Bar at 24" OC, on
- 10" Compacted Aggregate #53, on
- Compacted Sub-grade

(D₁) Concrete Pavement (Stamped/Stained)

- 8" PCPP with #4 Bar at 24" OC, on
- 10" Compacted Aggregate #53, on
- Compacted Sub-grade
(See Architectural Plans for color and pattern)

(E) Dumpster Enclosure
See Architectural Plans

(F) Concrete Sidewalk, 4 in.

- 4" PCPP with fibermesh, on
- 4" Compacted Aggregate #53, on
- Compacted Subgrade

(K₁) Full Depth HMA Pavement (Heavy Duty)

1-1/2" HMA Surface, Type "B", on
2-1/2" HMA Intermediate, Type "B", on
4" HMA Base, Type "B", on
8" Compacted Aggregate #53, on
Compacted Sub-grade

(K₂) Full Depth HMA Pavement (Standard Duty)

1-1/2" HMA Surface, Type "B", on
2-1/2" HMA Base Type "B", on
8" Compacted Aggregate #53, on
Compacted Sub-grade

(L) Lightpole (see Electrical plans)

(P) Patio/Walk Area

- 4" PCPP with fibermesh, on
- 4" Compacted Aggregate #53, on
- Compacted Subgrade

(S) Steps; 7 in. Riser, 12 in. Tread (x3), 2'-4" Total Rise
(See details, Sheet C501)

(U) Mulched Seeding in RW (per City Specifications)

(13) Concrete curb (barrier), 18 in.
6 in. face exposure, see plans

(16) Concrete curb (barrier), variable depth
Variable face exposure (see grading plans)

(17) Monolithic Curb & Gutter, 6 in. Curb Height

(19) Monolithic Curb & Gutter, 1-1/2 in. Curb Height

(20) Combined curb and sidewalk, 4 in.
6 in. face exposure

(21) Combined curb and sidewalk, 4 in.
Variable face exposure (see grading plans)

(26) Landscape/Seeding Area (see Landscape plans)
6" Topsoil Req'd

(7) Sidewalk Curb Ramp, by Type
See details (Sheet C501)

Pavement Marking Keynotes

(20) Concrete parking barrier (x5)
(See detail, Sheet C501)

(40) Line, Paint, Solid, White, 4 in.

(41) Line, Paint, Solid, Blue, 4 in.

(42) ADA Symbol, Blue, 4 in. (x4)
(See detail, Sheet C501)

(43) ADA Striping, Blue, 4 in. (x4)
(See detail, Sheet C501)

(44) ADA Sign
(See detail, Sheet C501)

(46) Transverse Marking, Crosshatch, Paint, Solid, White
(4" Bars, 24" o.c.)

(47) Transverse Marking, Stop Bar, Solid, Paint, White
(18" x 12' Bar)

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WHETHER SHOWN ON THE PLANS OR NOT. IF DAMAGE IS
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WITH THE DIRECTIONS OF THE ENGINEER AND FOR ANY
RESULTING CONTINUED DAMAGE.



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RMA
Surveyors • Engineers • Consultants

JASON M. MILLER
REGISTERED
No. PE-10707416
STATE OF INDIANA
PROFESSIONAL ENGINEER

Jason Miller

JOB NO: 21-0189
DESIGNED: KAG
DRAWN BY: APB
CHECKED BY: JMM
DATE: 2024-01-26

REVISIONS		
NO.	DATE	BY

SITE IMPROVEMENT PLAN

**ATWELL SUITES
AN IHG HOTEL**

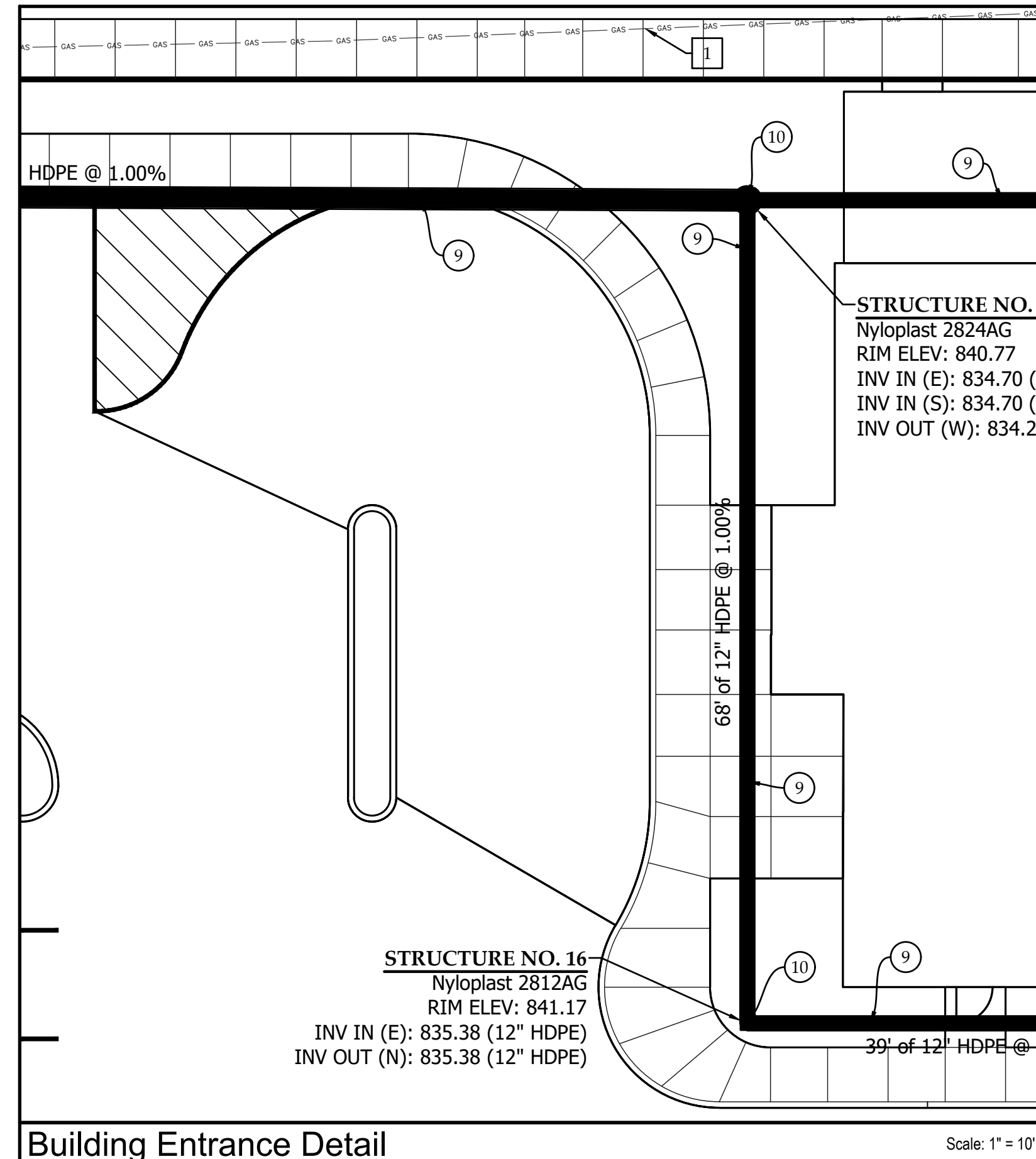
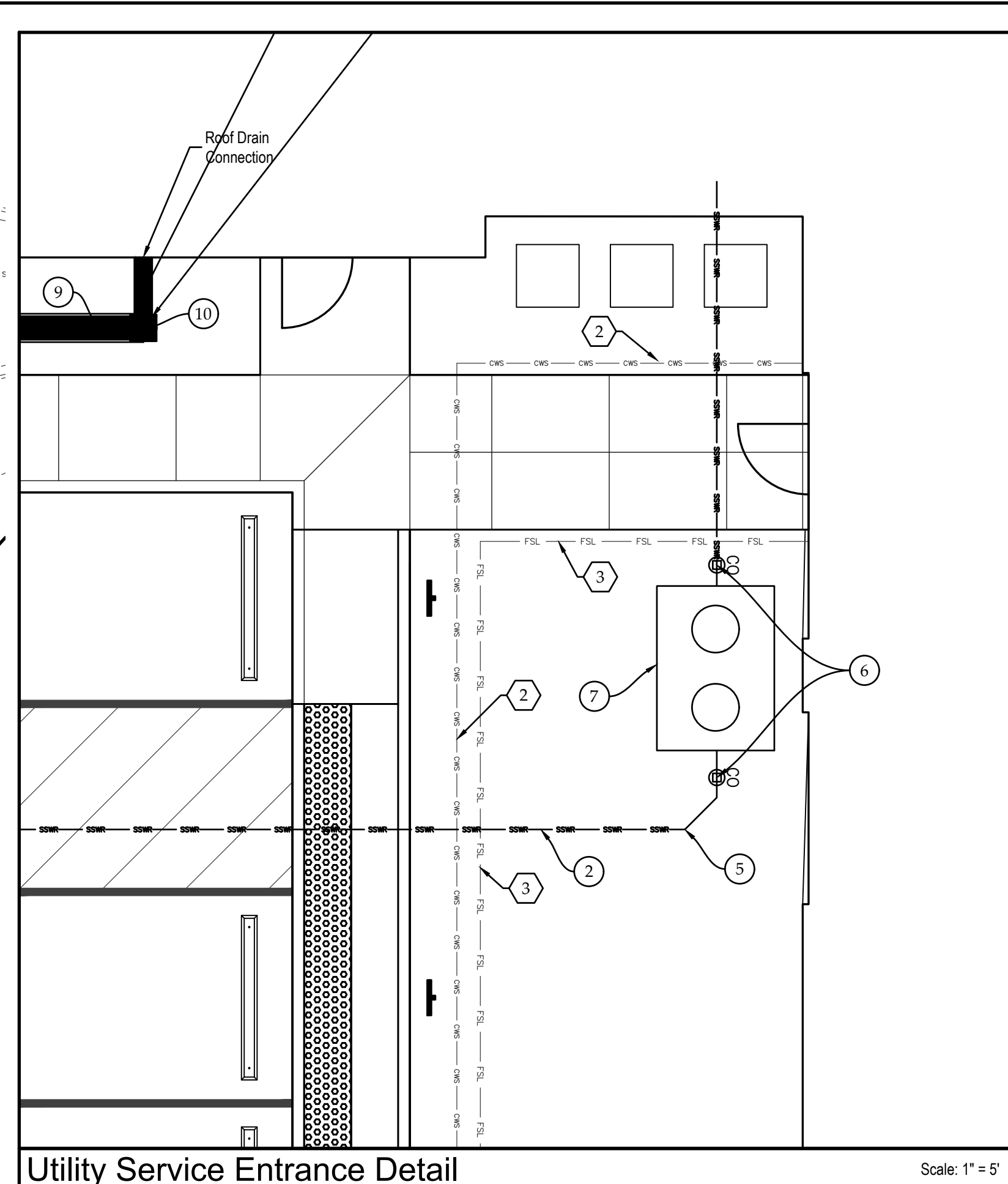
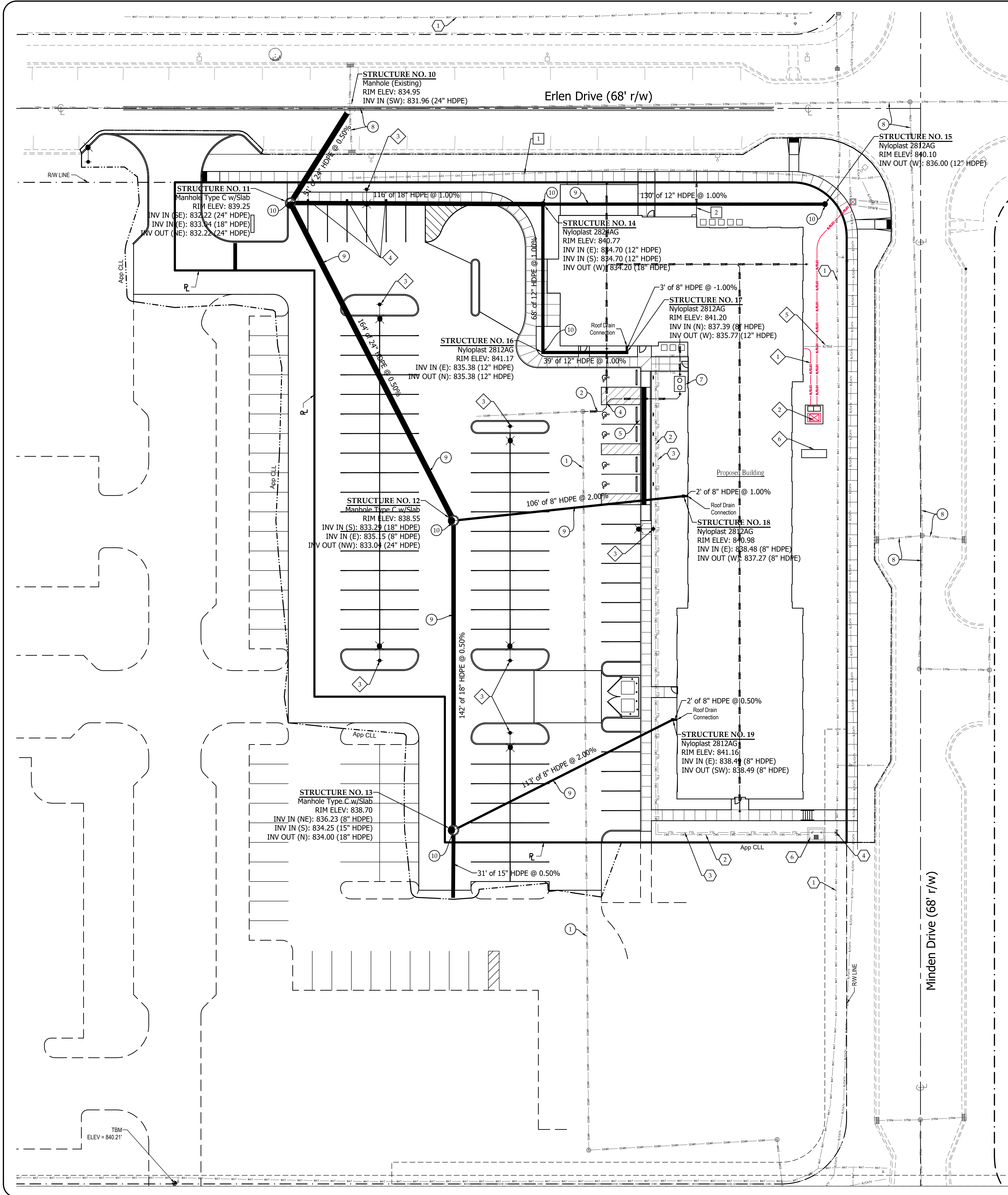
**ERLEN DR & MINDEN
Dr FISHERS, IN**

HORIZONTAL SCALE
1" = 20'
VERTICAL SCALE
1" = 20'
SHEET

C200

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Utility General Notes

- 1) Site survey is shown lightly on this sheet for reference.
- 2) Protect all existing utilities not indicated to be removed or adjusted. The location of utilities and structures, both surface and subsurface, are shown on the plans from data available at the time of survey and from construction drawings on file with the owner and engineer and are not necessarily complete or correct. The exact location, and protection of utilities and structures is the responsibility of the contractor. During construction the contractor shall use diligence to protect all existing utilities and structures whether shown on the plans or not. If damage is caused, the contractor shall be responsible for the repair and restoration of same in accordance with the directions of the engineer and for any resulting contingent damage.
- 3) The contractor shall report immediately to the engineer any discrepancies between the existing conditions shown on these plans and actual field conditions.
- 4) The contractor shall be responsible for repairing any damage resulting from construction activity to existing site elements that are to remain.
- 5) All conduit to be 2" Ø, unless otherwise noted.

Notes:

1. This drawing is not intended to be represented as a retracement or original boundary survey, a route survey, or a survey station report.
2. This drawing is based on survey data collected by RMA in September 2021 and may not represent current site conditions.

Common Abbreviation Legend

- | | | |
|------|---|-------------------------|
| App | - | Apparent |
| Apex | - | Approximate |
| CLL | - | Construction Limit Line |
| RW | - | Right of Way |
| FL | - | Flow Line |
| TOB | - | Top of Bank |
| TOS | - | Toe of Slope |
| SG | - | Subgrade |
| FG | - | Finish Grade |

* CLL indicates limits of grading and not necessarily limits of work area.

Utility Keynotes

WATER

- | | |
|---|--|
| 1 | Existing water line |
| 2 | Proposed 3" domestic water service line |
| 3 | Proposed 6" fire service line |
| 4 | Proposed Tapping Sleeve & Valve |
| 5 | Proposed Bend or Tee w/Thrust Block |
| 6 | Proposed vault (if required, coordinate with provider and fire suppression engineer) |

- | | |
|------|---|
| MISC | Crossing to be in accordance with 327 IAC 5-4-9 and 327 IAC 8-3-2-9 |
| SWC | Construct Vertical Offset as necessary |

STORM AND SANITARY SEWER

- (sizes and types on plan and listed in data tables)
- | | |
|----|--|
| 1 | Existing Sanitary Sewer |
| 2 | Proposed SDR-35 PVC Sanitary Sewer |
| 3 | Proposed Sanitary Sewer Manhole |
| 4 | Proposed 6 x 10 Dual Wall Wye (Nyloplast Part #0692AG or approved equivalent) |
| 5 | Proposed 45° Elbow (Nyloplast Part #0645AG or approved equivalent) |
| 6 | Proposed 6" Dual Wall Cleanout (Nyloplast Part #0674AG or approved equivalent) |
| 7 | Proposed Grease Interceptor (see MEP plans for details and specifications) |
| 8 | Existing Storm Sewer |
| 9 | Proposed Storm Sewer (size and type noted) |
| 10 | Proposed Storm Sewer Structure |

GAS

- (Coordinate with respective service provider)
- | | |
|---|------------------------------|
| 1 | Existing Gas Main |
| 2 | Proposed 1" Gas Service Line |

ELECTRIC AND TELECOMMUNICATION

- (Coordinate all with respective service providers)
- | | |
|---|---|
| 1 | Proposed Electric Service Line location (Install dual 4" conduits with pull wire under slab) |
| 2 | Proposed Electric Transformer |
| 3 | Proposed Lightpole (see electrical plans) |
| 4 | Proposed EV Charging Station (see electrical plans) |
| 5 | Proposed Telecom Service Lines (Phone & Cable) (Install dual 4" conduits with pull wire under slab) |
| 6 | Proposed Backup Generator w/Pad (see electrical plans) |

THE LOCATION OF UTILITIES AND STRUCTURES, BOTH SURFACE AND SUBSURFACE, ARE SHOWN ON THE PLANS FROM DATA AVAILABLE AT THE TIME OF SURVEY AND ARE NOT NECESSARILY COMPLETE OR CORRECT. THE EXACT LOCATION AND PROTECTION OF UTILITIES AND STRUCTURES IS THE RESPONSIBILITY OF THE CONTRACTOR. DURING CONSTRUCTION THE CONTRACTOR SHALL USE DILIGENCE TO PROTECT ALL EXISTING UTILITIES AND STRUCTURES WHETHER SHOWN ON THE PLANS OR NOT. IF DAMAGE IS CAUSED, THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE REPAIR AND RESTORATION OF SAME IN ACCORDANCE WITH THE DIRECTIONS OF THE ENGINEER AND FOR ANY RESULTING CONTINGENT DAMAGE.



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JASON M. MILLER
REGISTERED
No. PE-10707416
STATE OF INDIANA
PROFESSIONAL ENGINEER

Jason Miller

JOB NO: 21-0189
DESIGNED: APB
DRAWN BY: APB
CHECKED BY: JMM
DATE: 2024-01-26

REVISIONS		
NO.	DATE	BY

UTILITY PLAN

**ATWELL SUITES
AN IHG HOTEL**

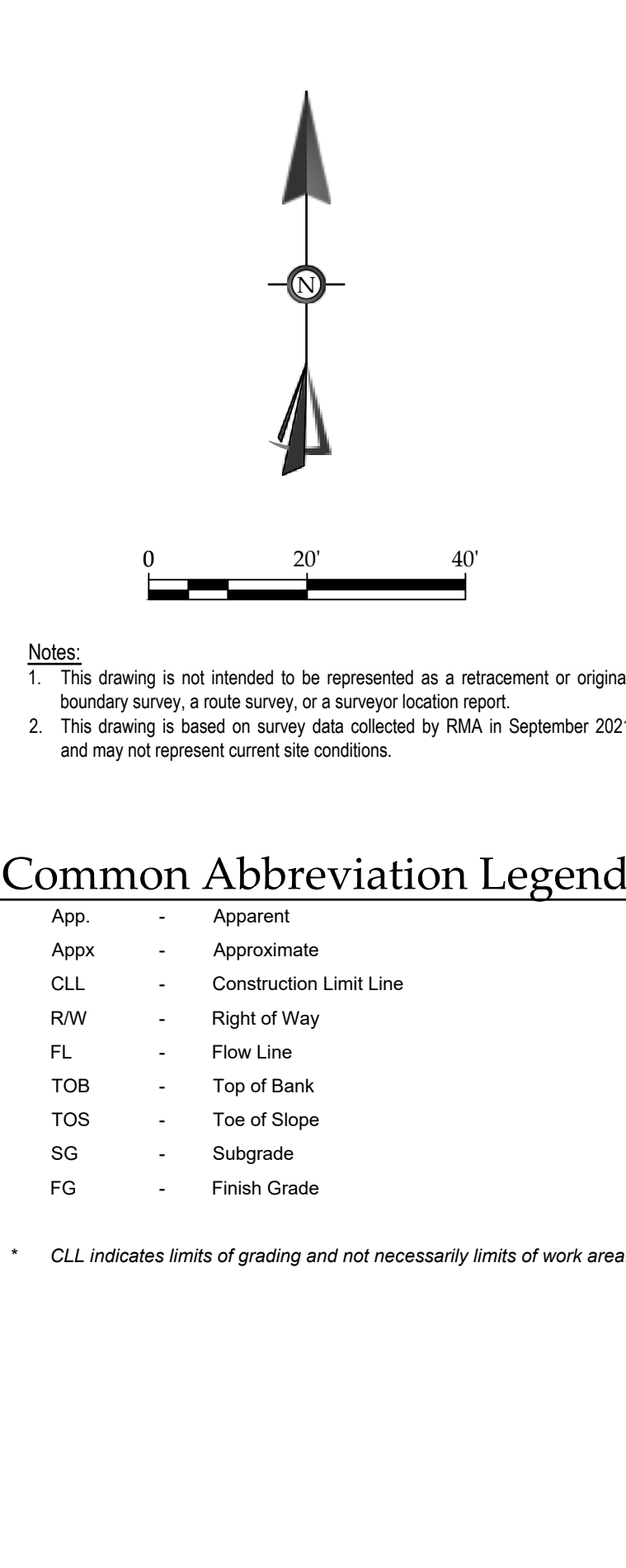
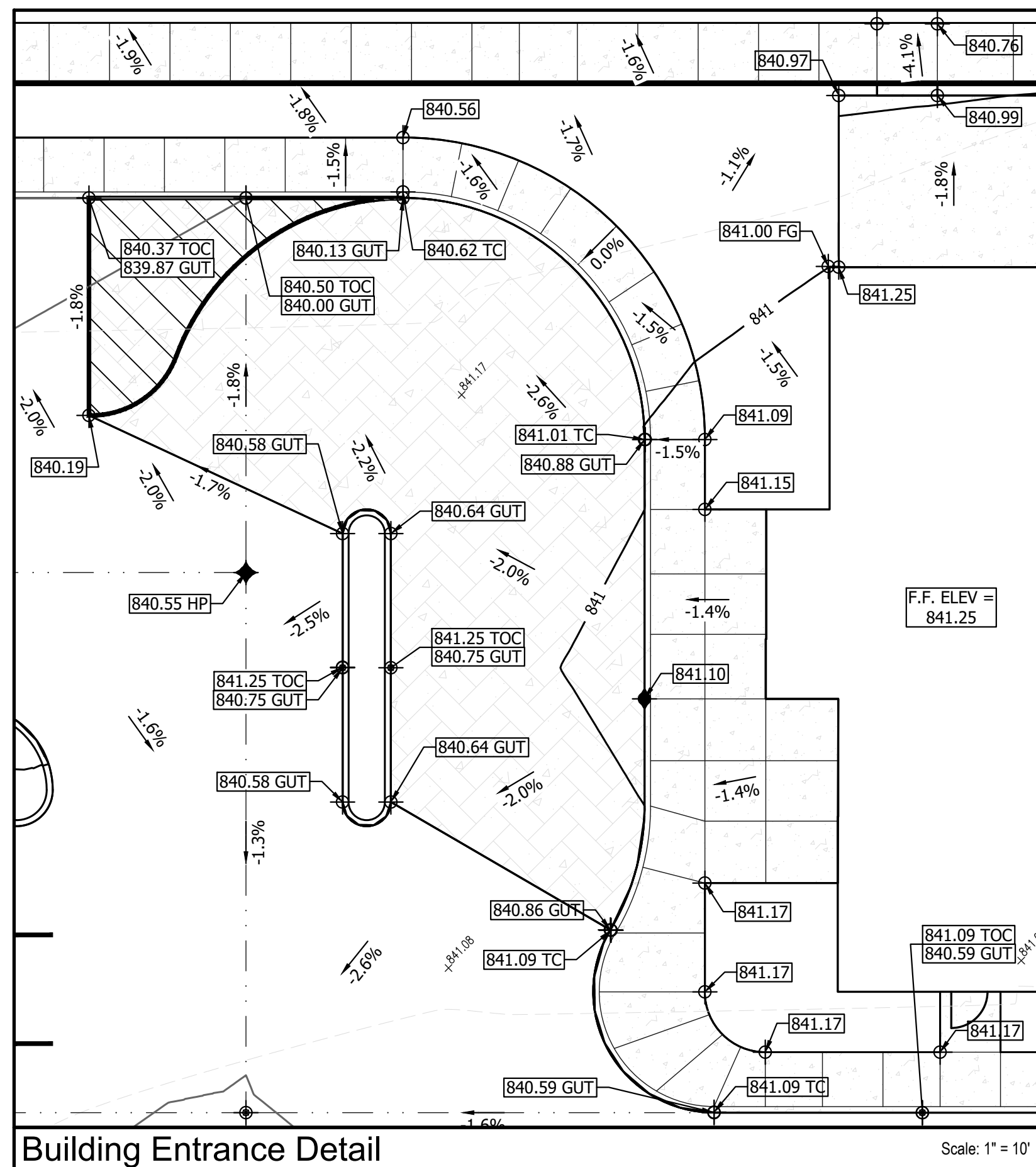
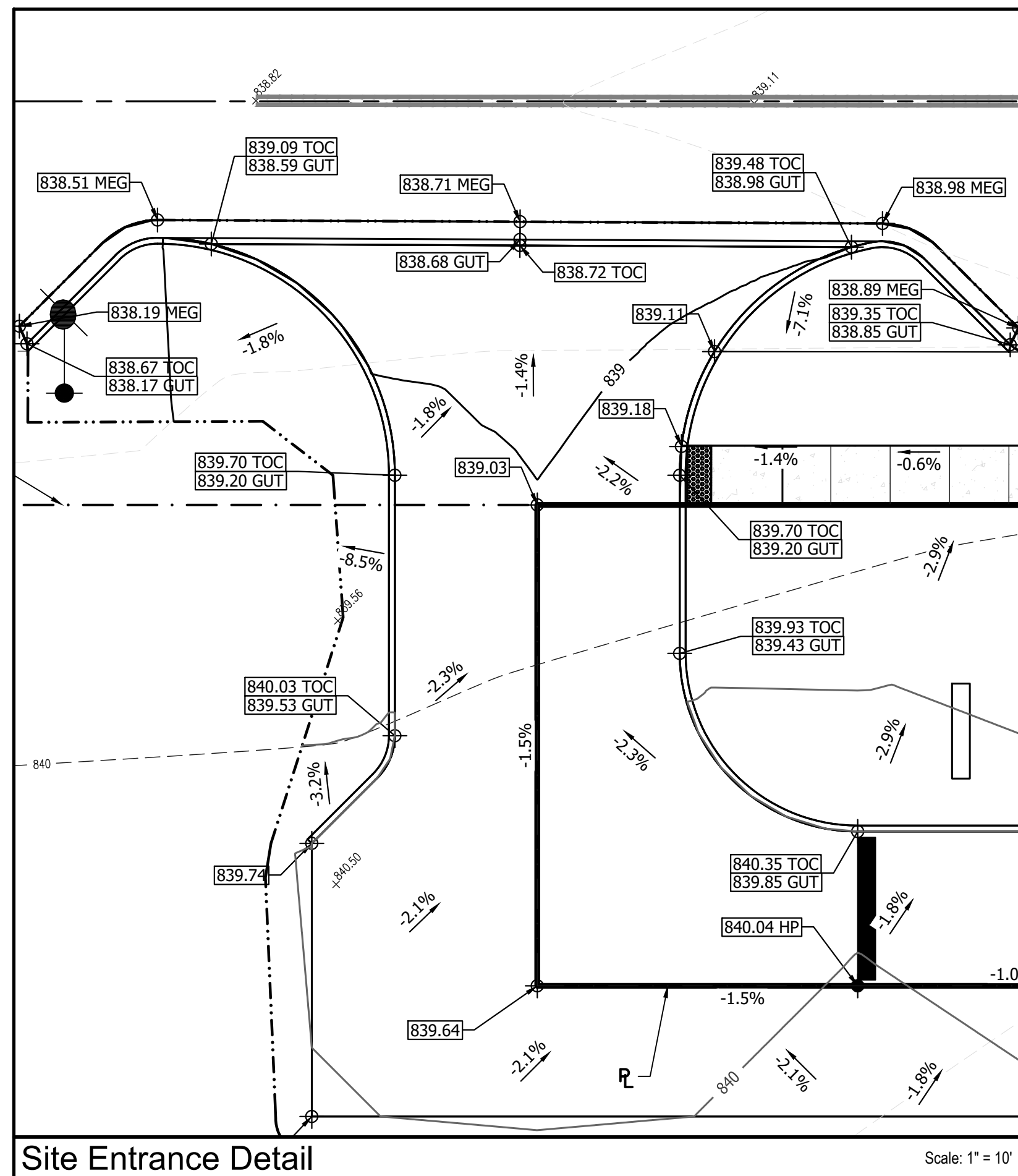
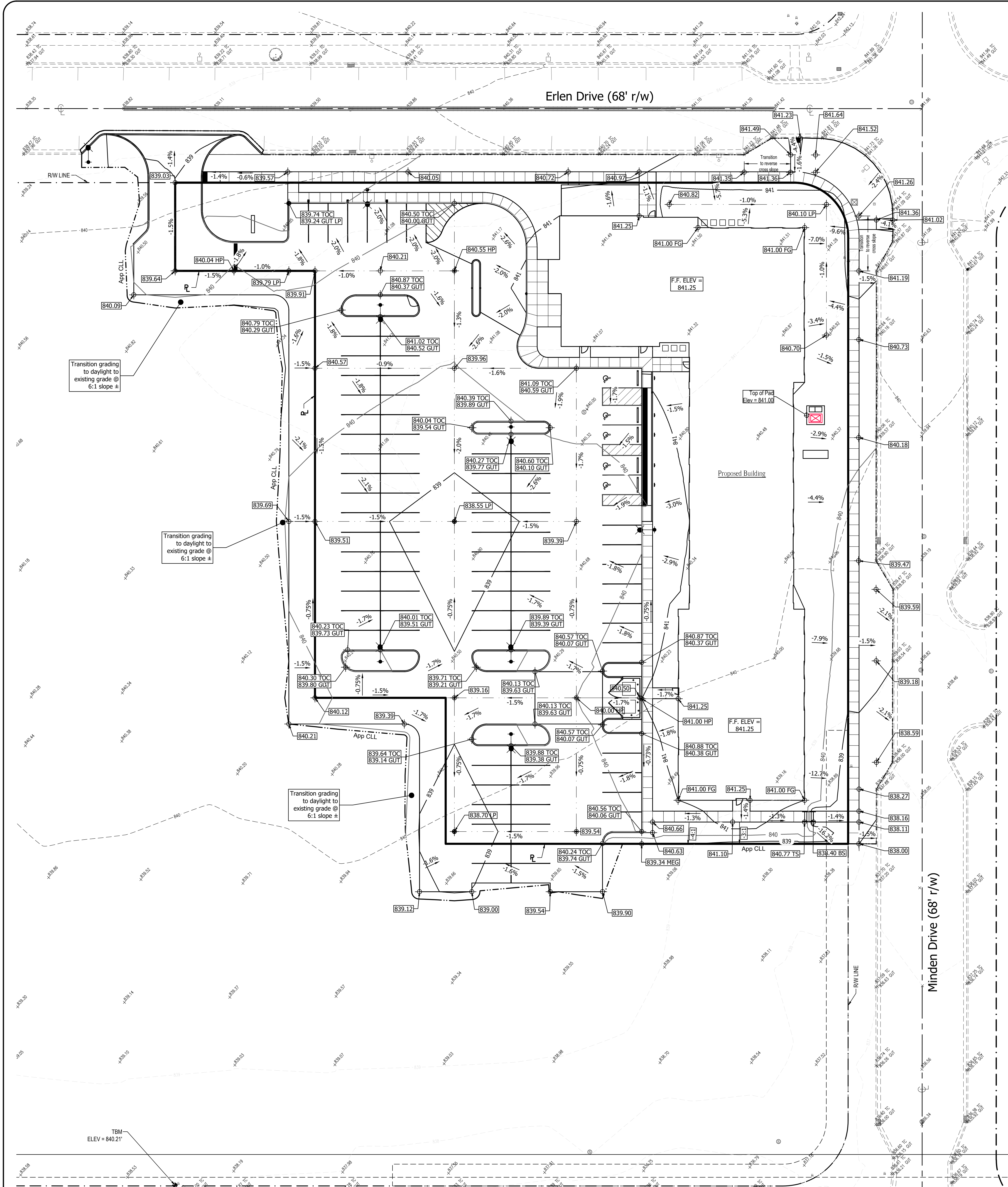
**ERLEN DR & MINDEN
Dr FISHERS, IN**

HORIZONTAL SCALE
1" = 20'

VERTICAL SCALE
1" = 20'

SHEET

C210



Grading General Notes

- Site survey is shown lightly on this sheet for reference.
- Unless otherwise noted, proposed spot elevations represent finish grade of pavements and ground, in lawn or plant bed areas, proposed elevations indicate required elevations after setting of soil.
- Finish grade of grass and/or landscape area at the building shall be at or below the building's finish floor elevation.
- The contractor shall refer to earthwork specifications, this sheet, and the demolition plan for subgrade requirement work to accommodate and coordinate topsoil and landscape work.
- Protect all existing utilities not indicated to be removed or adjusted. The location of utilities and structures, both surface and subsurface, are shown on the plans from data available at the time of survey and from construction drawings on file with the owner and engineer and are not necessarily complete or correct. The exact location, and protection of utilities and structures is the responsibility of the contractor. During construction the contractor shall use diligence to protect all existing utilities and structures whether shown on the plans or not. If damage is caused, the contractor shall be responsible for the repair and restoration of same in accordance with the directions of the engineer and for any resulting contingent damage.
- The contractor shall report immediately to the engineer any discrepancies between the existing conditions shown on these plans and actual field conditions.
- The contractor shall be responsible for repairing any damage resulting from construction activity to existing site elements that are to remain.
- Where grade modifications (cut or fill) are shown adjacent to existing features to remain, these features shall be required to be adjusted flush with the proposed grade, even if not identified on the plans as such. If any such condition is encountered, Contractor shall notify Engineer prior to said work for confirmation and direction.
- Any erosion and sediment control measure shown on this plan are to be considered minimum practices necessary to comply with 327 IAC 15-5. However, site conditions, construction methods, sequencing of work and general practice may warrant a variation and/or modification to the quantities, location, and type of measure shown. The cost of such shall be paid for by the Contractor. Any variation or modification to the plan shall be proposed to the Engineer for verification and acceptance prior to said variation or modification.

Grading Legend

- Existing Contour
- Proposed Contour
- Proposed Slope
- Proposed Spot Elevation
- Proposed Top of Curb (Elevation)
- Proposed Gutter (Elevation)
- Match Existing Grade
- Flow Line

THE LOCATION OF UTILITIES AND STRUCTURES, BOTH SURFACE AND SUBSURFACE, ARE SHOWN ON THE PLANS FROM DATA AVAILABLE AT THE TIME OF SURVEY AND ARE NOT NECESSARILY COMPLETE OR CORRECT. THE EXACT LOCATION AND PROTECTION OF UTILITIES AND STRUCTURES IS THE RESPONSIBILITY OF THE CONTRACTOR. DURING CONSTRUCTION THE CONTRACTOR SHALL USE DILIGENCE TO PROTECT ALL EXISTING UTILITIES AND STRUCTURES WHETHER SHOWN ON THE PLANS OR NOT. IF DAMAGE IS CAUSED, THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE REPAIR AND RESTORATION OF SAME IN ACCORDANCE WITH THE DIRECTIONS OF THE ENGINEER AND FOR ANY RESULTING CONTINGENT DAMAGE.



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PROFESSIONAL ENGINEER

Jason Miller

JOB NO: 21-0189
DESIGNED: APB
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CHECKED BY: JMM
DATE: 2024-01-26

REVISIONS		
NO.	DATE	BY

GRADING PLAN

**ATWELL SUITES
AN IHG HOTEL**

**ERLEN DR & MINDEN
Dr FISHERS, IN**

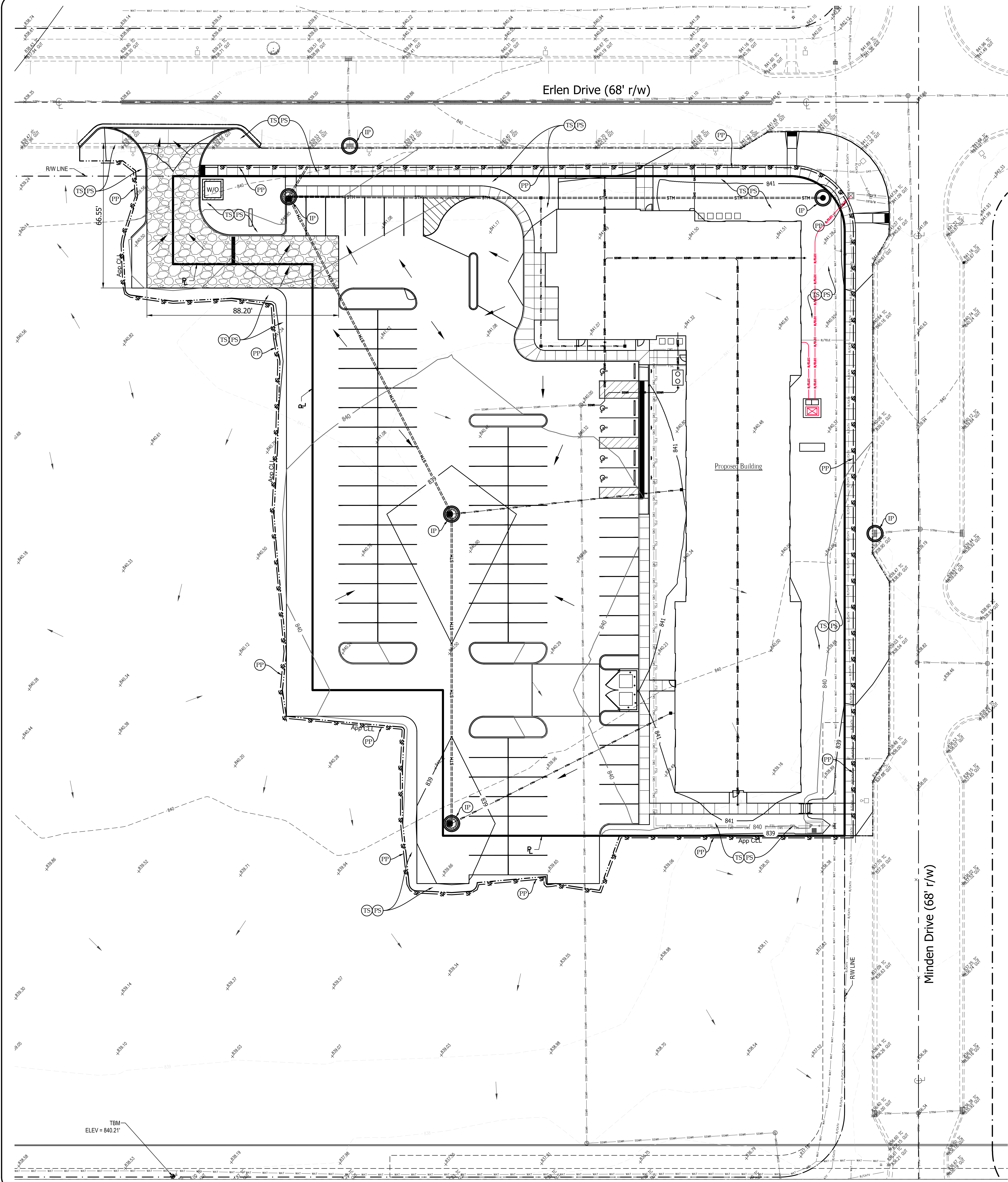
HORIZONTAL SCALE
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VERTICAL SCALE
1" = 10'

SHEET

C300

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Page 11 of 292



Erosion Control Notes

1) Any erosion and sediment control measure shown on this plan are to be considered minimum practices necessary to comply with CSGP. However, site conditions, construction methods, sequencing of work and general practice may warrant a variation and/or modification to the quantities, location, and type of measure shown. The cost of such shall be paid for by the Contractor. Any proposed variation or modification to the plan shall be approved by the Engineer and the Owner prior to said variation or modification.

Site Data

Address: 0 Erlen Drive
Fishers, IN 46037
Legal Description: Block A, Atwell Suites by IHG, Fishers-Saxony
Saxony Commercial District - Phase 3
Site Area: 1.67 Acres (by survey/plat)
Total Disturbed Area: 2.13 Acres (92,613.4 sq ft)
Receiving water: MUD CREEK via EXIT TEN DRAIN
(via Saxony Lake detention)

OWNER/DEVELOPER
Legacy Holding Company LLC
13196 Gilmour Drive
Fishers, IN 46037

Notes:

1. This drawing is not intended to be represented as a retracement or original boundary survey, a route survey, or a survey location report.
2. This drawing is based on survey data collected by RMA in September 2021 and may not represent current site conditions.

Common Abbreviation Legend

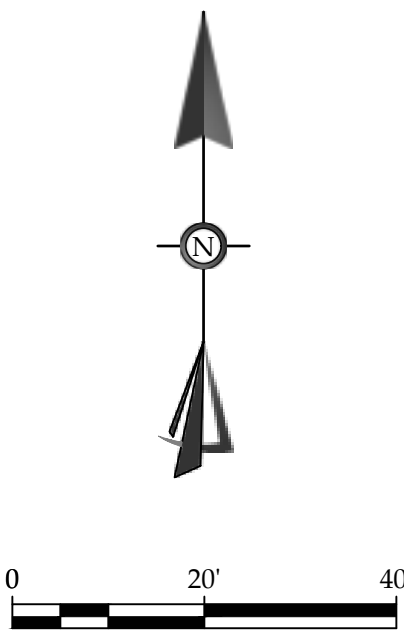
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- Appx - Approximate
- CLL - Construction Limit Line
- RW - Right of Way
- FL - Flow Line
- TOB - Top of Bank
- TOS - Toe of Slope
- SG - Subgrade
- FG - Finish Grade

Erosion Control Legend

- SF - Perimeter Protection (Silt Fence)
- Construction Entrance
- Seeding
- Erosion Control Mats/Blankets
- W/O - Concrete Washout Facility
- Inlet/Outlet Protection
- Check Dam
- TS - Temporary Seeding
- PS - Permanent Seeding
- PP - Perimeter Protection
- IP - Inlet Protection
- Existing Contour
- Proposed Contour

NOTE:
CURLLEX Sediment Logs may be substituted for conventional silt fence and straw bales for use as perimeter protection, inlet protection, and channel flow line protection. See Sheet C407 for CURLLEX details from American Excelsior Company.

CURLLEX Net Free erosion mat/blanket is preferred for use on this project, but not required. See Sheet C407 for CURLLEX details from American Excelsior Company.



**STORM WATER
POLLUTION
PREVENTION PLAN**

**ATWELL SUITES
AN IHG HOTEL
ERLEN DR & MINDEN
Dr FISHERS, IN**

HORIZONTAL SCALE
1" = 20'
VERTICAL SCALE
1" = 2'

SHEET

C400

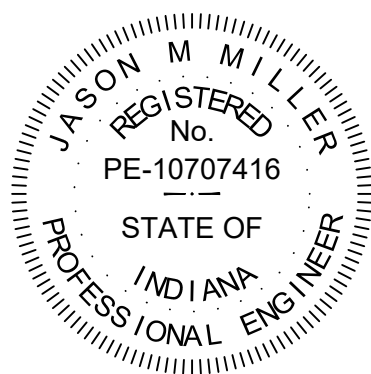
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Jason Miller

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REVISIONS		
NO.	DATE	BY

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STORMWATER POLLUTION PREVENTION PLAN

CONSTRUCTION PLAN ELEMENTS (SECTION A)

A1. Index of the location of required plan items: See Sheet C400

A2. A vicinity map depicting the project site location in relationship to recognizable local landmarks, towns, and major roads: See Sheet C400

A3. Narrative describing project nature & purpose: A private developer is proposing to construct a new hotel located in Saxony Village at the Southwest corner of Erlan Drive and Minden Drive in the City of Fishers, Indiana. The new site improvements include the hotel building, patio and new sidewalks as well as new public sidewalks adjacent to the existing roadways, and asphalt parking lot.

A4. Latitude and longitude of the site: The Latitude of the site is 39°58'58" N and the Longitude is 85°55'34" W.

A5. Legal description of the site: The project is in Block A, of Atwell Suites by IHG, Fishers-Saxony, in Saxony Commerical District - Phase 3, which is located in Section 26, Township 18 North, Range 5 East in Fall Creek Township in Hamilton County, Indiana.

A6. 11 X 17-inch plat showing building lot numbers/boundaries and road layouts/names: See Sheet C400, and other plan sheets.

A7. - Boundaries of the one hundred (100) year floodplains, floodway fringes, and floodways: See Sheet C400, if applicable. The above real estate is situate in Zone "X" (unshaded) as said land plots by scale on Community Panel #18057C0256G of the Flood Insurance Rate Maps for the Town of Fishers, Indiana, dated 11/19/2014.

A8. Land use of all adjacent properties: Immediately to the West and South of the project site is vacant land, but slated for future commercial development. Further West and South is multi-family residential. Land area to the East is multi-family residential. Land directly North is zoned for commercial use, but only consists of parking facilities to support the recreational use of Saxony Lake.

A9. Identification of a US EPA approved or established TMDL: Mud Creek is not listed as an approved TMDL.

A10. Name of receiving water: Mud Creek via Exit Ten Drain (via Saxony Lake detention)

A11. Identification of discharges to a water on the current 303(d) list of impaired waters and the pollutant(s) for which it is impaired: Mud Creek (Hamilton County) is not listed on the current 303(d) list of impaired waters.

A12. Soils map of the predominate soil types: See Sheet C400

A13. Identification and location of all known wetlands, lakes, and water courses on or adjacent to the project site: Saxony Lake is located approximately 500 feet West of the project site. Per the NWI, there are no other wetlands in the immediate vicinity.

A14. Identification of any other state or federal water quality permits or authorizations that are required for construction activities: None for this project.

A15. Identification and delineation of existing cover, including natural buffers: The project site area is currently undeveloped and comprised entirely of lawn.

A16. - Existing site topography at an interval appropriate to indicate drainage patterns: See Sheet C400, and other plan sheets.

A17. Location(s) where run-off enters the project site: The runoff enters the project site via overland flow from the undeveloped land to the West.

A18. Location(s) where run-off discharges from the project site prior to land disturbance: Runoff discharges from the project site to the South via overland flow where it enters the roadway and is collected in existing storm sewer.

A19. Location of all existing structures on the project site: See Sheet C400, if applicable.

A20. Existing permanent retention or detention facilities, including manmade wetlands, designed for the purpose of stormwater management: Saxony Lake is a regional stormwater detention facility, located approximately 500 feet West of the project site.

A21. Locations where stormwater may be directly discharged into ground water, such as abandoned wells, sinkholes, or karst features: None for this project.

A22. Size of the project area expressed in acres: The project site property area consists of 1.67 acres, by survey/plat.

A23. Total expected land disturbance expressed in acres: The anticipated land disturbance is approximately 2.13 acres.

A24. Proposed final topography: See Sheet C400, and other plan sheets.

A25. Locations and approximate boundaries of all disturbed areas: All disturbed areas are shown within the construction limit line as indicated on Sheet C400 and other plan sheets.

A26. Locations, size, and dimensions of all stormwater drainage system such as culverts, stormwater sewer, and conveyance channels: As shown on Sheet C400 and other plan sheets. Under proposed conditions stormwater runoff from the site will be collected in an on-site local storm sewer. Peripheral areas will direct discharge offsite via overland flow. All runoff will be directed to existing city storm sewer and routed to the Saxony Lake regional detention basin.

A27. Locations of specific points where stormwater and non-stormwater discharges will leave the project site: Peripheral areas will leave the site via overland flow consistent with, but with a reduction in runoff from, the site's existing conditions.

A28. Location of all proposed site improvements, including roads, utilities, lot delineation and identification, proposed structures, and common areas: The proposed site improvements are shown on Sheet C400. The improvements include a new building, sidewalks, asphalt parking lot, and grading/seeding.

A29. Location of all on-site and off-site soil stockpiles and borrow areas: Topsoil is anticipated to be hauled offsite. Location of any temporary topsoil stockpile(s) is to be determined by the contractor/city as needed. Any modifications by the Contractor shall be shown on an updated SWQMP.

A30. Construction support activities that are expected to be part of the project: Suggested support areas are shown on Sheet C400. Proposed support areas can be determined by the contractor, architect, and/or the City Engineer during mobilization and site preparation, but must be shown on an updated SWQMP if it deviates from this plan. Anticipated support activities include construction staging areas, refueling areas, material storage areas, etc.

A31. Location of any in-stream activities that are planned for the project including, but not limited to, stream crossings and pump arounds: None proposed.

STORMWATER POLLUTION PREVENTION PLAN

CONSTRUCTION COMPONENT (SECTION B)

B1. Description of the potential pollutant generating sources and pollutants, including all potential non-stormwater discharges: Potential pollutants associated with construction activities will be sediment particles, fuel, oils, hydraulic fluids, antifreeze, grease, solvents, and non-asphalt solid wastes.

B2. Stable construction entrance locations and specifications: Suggested construction entrance and staging areas are shown on Sheet C400. Proposed support areas can be determined by the contractor, architect, and/or the City Engineer during mobilization and site preparation, but must be shown on an updated SWPPP if it deviates from this plan. The Contractor will specify the location of all construction entrances in the Amended SWPPP if applicable. Specifications for the construction entrance are shown on Sheet C402.

B3. Specifications for temporary and permanent stabilization: Temporary seed shall be used for surface stabilization and temporary ground cover. Temporary cover mixtures shall be placed and be subject to seasonal limitations as defined herein. This mixture is not intended to be used as a permanent seed mixture. This mixture shall not be used to satisfy the requirements of the warranty bond. The mix shall be spray mulched where the slope is steeper than 3:1. Permanent seed shall be used for surface stabilization and permanent ground cover. Erosion control matting/banquets shall be installed around the embankments of the retention basin.

Spring mix shall be used from January 1 through June 15. This mixture shall be applied at the rate of 150 lb/ac. This mix shall consist of oats.

Fall mix shall be used from September 1 through December 31. This mixture shall be applied at a rate of 150 lb/ac. This mix shall consist of winter wheat.

Unless otherwise specified herein, or the contract site plan, fertilizer shall be spread uniformly over the area to be seeded. Fertilizer shall only be applied during the active growing season March through November.

B4. Sediment control measures for concentrated flow areas: The primary erosion control measure for concentrated flow areas will be installed inlet protection measures and modified check dams if applicable. These measures will be installed in accordance with the specifications of the Indiana Stormwater Quality Manual.

B5. Sediment control measures for sheet flow areas: The primary erosion control measure for sheet flow areas will be installed silt fence, sediment logs, or filter sock along the perimeter of the project area.

Location and dimensions of these measures are included on the attached plans. These measures will be installed in accordance with the specifications of the Indiana Stormwater Quality Manual.

B6. Run-off control measures: Site runoff will be controlled through the preservation of existing vegetation wherever feasible, the installation of temporary seed upon the completion of soil disturbing activities, and the installation of silt fence, sediment logs, or filter sock along the perimeter of the project site.

Location and dimensions of these measures are included on the attached plan set. These measures will be installed in accordance with the specifications of the Indiana Stormwater Quality Manual.

Primary sediment containment for storm sewer inlets will be provided through the installation of inlet protection as shown on Sheet C400. The primary sediment containment should be sufficient to prevent sediment transport out of the project area. These measures will be installed in accordance with the specifications of the Indiana Stormwater Quality Manual.

B7. Stormwater outlet protection location and specifications: The primary stormwater outlet will be via closed conduit storm sewer direct connection to an existing city storm sewer. No outlet protection measures are anticipated for this project. Other protection measures for the overall site and for areas where runoff will sheet flow offsite include temporary seeding upon the completion of soil disturbing activities, and the installation of silt fence, sediment logs, or filter sock along the perimeter of the project site.

B8. Grade stabilization structure locations and specifications: None for this project.

B9. Dewatering applications and management methods: Dewatering measures shall be shown on an updated SWPPP provided by the Contractor and shall comply with the specifications of the Indiana Stormwater Quality Manual, if applicable.

B10. Measures utilized for work within waterbodies: None for this project.

B11. Maintenance guidelines for each proposed stormwater quality measure: Maintenance guidelines for each measure shall comply with the specifications of the Indiana Stormwater Quality Manual.

Sediment and Erosion Control inspections shall be conducted by the contractor's designated inspector weekly, and after every 0.5 inch precipitation event. All required corrections and maintenance shall be made within 48 hours.

B12. Planned construction sequence that describes the implementation of stormwater quality measures in relation to land disturbance:

Pre-Construction Activities:

- Designate the person responsible for complying with the onsite storm water pollution prevention plan. Coordinate responsibility for completing the site reviews after each ½" rainfall and/or minimum of one time per week.
- Notify IDEM Rule 5 coordinator (317-233-1864) and the City of Fishers Utilities Office within 48 hours of starting construction. Schedule a preconstruction meeting with the agency responsible for job site inspections.
- Post the contact information at the construction entrance. Include a copy of the NOI and the contact information for the onsite person who is responsible for implementing the storm water pollution prevention plan. The SWPPP should be onsite and weekly site reports need to be available within 48 hours of a request.
- Inspect the site to insure current onsite conditions match the construction plan. Contact the engineer or architect if you find discrepancies.

Installation of Perimeter Storm Water Pollution Prevention Practices:

- Prior to mass grading the following practices on this site need to be installed:
 - Install construction entrance, fueling area, port-a-let, solid waste bin, concrete washout facility and staging area.
 - Install perimeter protection (silt fence, sediment logs, or filter sock) as shown on Sheet C400.
 - Install inlet protection on existing stormwater inlets.
 - Complete required grading activities per the plan.
 - Install inlet protection on newly installed stormwater inlets and infiltration trenches.
 - Install temporary protection on disturbed areas that are expected to remain idle for over 7 days.
- Land disturbance will be kept to a minimum until these practices are installed.
 - Install permanent mulch seeding once final grade has been achieved.
 - Site inspection of erosion and sediment control measures once every 7 days and within 24 hours of a storm event.
 - Final site inspection will take place to ensure all requirements of the SWPPP, construction plans, and supporting documents have been fulfilled.

Post Construction Activities:

- Stormwater pollution prevention practices should be reviewed and maintained as needed to keep them effective. Sediment will be removed from detention basins and other sediment control practices after the site is permanently stabilized.
- Review all disturbed areas for final stabilization. A uniform cover of 70% perennial vegetation is required.
- The contractor will remove the temporary erosion or sediment control practices as the watershed for each practice is permanently stabilized.
- Submit the Notice of Termination (NOT).

B14. Material handling and spill prevention and spill response plan meeting the requirements in 327 IAC 2.6.1:

Any excess material, potentially including demolition materials, concrete, trees, unsuitable soils, pipes, manholes and inlets, and other materials removed from the site shall be taken to an approved disposal location and must also be compliant with CSGP. The disposal location shall have adequate ingress/egress and other required elements for compliance with CSGP.

Concrete washout from construction activity shall be discharged into suitable washout areas on the site. The location shall be determined by the Contractor and indicated on the updated SWPPP. The Contractor shall install adequate signage indicating the washout area.

Prevention planning shall be considered at the beginning of the project and throughout the project until final completion. Small spills and leaks of materials onto non-paved areas shall be shoveled into containers or dumpsters for proper disposal. Fueling trucks and tanks shall be equipped with spill prevention kits for smaller fuel spills. Refueling areas are to be kept as far as possible from any stream or other runoff conveyance body. All vehicular maintenance shall be performed in the same designated area throughout the construction timeframe. If possible, vehicular maintenance shall be done offsite at facilities designed to handle material spills. The Contractor shall conduct a material inventory throughout the site and evaluate all past leaks and spills to identify any non-stormwater discharges. Collect and evaluate stormwater as necessary. The Contractor shall eliminate all trash and debris on the project site daily.

B15. Material handling and storage procedures associated with construction activity:

Construction vehicles should be inspected for leaks daily and repaired immediately. Any used automotive material should be disposed of as directed by the manufacturer. All vehicle repairs and washing should be done off-site. Heavily greased or soiled vehicles that must be washed on-site shall be done by placing a berm around the perimeter of the vehicle to catch all pollutants before leaving the site. The contractor shall supply a description of a universal particle absorbent and water based absorbent to the engineer for approval in case of an accidental spill.

If construction vehicles are to be left unattended after hours there needs to be an approved drip pan under any and all potential leaking points of vehicle. The drip pan needs to be approved by an engineer. When hauling barrels or any device containing chemicals, there must be a filter pad placed under specific drip points or nozzles of barrels. This pad will absorb the drip/spill until arrival at the construction site where it can be thrown away off-site as directed by the manufacturer. All containers must be securely fastened prior to coming or leaving the job site. All vehicles should be fueled off-site. If vehicles must be fueled on-site, a filter pad should be placed under specific drip points or nozzles. This pad will absorb the drip/spill while fueling is occurring. Once fueling has stopped, the pad can be disposed of off-site as directed by the manufacturer. All solid waste and concrete washout shall be removed and disposed of off-site. Onsite oil storage areas shall be protected with storm drains, and a perimeter spill berm. The on-site storage areas should be inspected daily to insure that the containments are not leaving the area.

In case of spill or the discovery of any potentially hazardous material, take immediate action to contain the spilled material and then contact the Indiana Department of Environmental Management at 317-233-7745 or toll-free 888-233-7745. Provide the following information: time of observation of spill, location of spill, identity of material spilled, probable source of spill, probable time of spill, volume and duration of spill, present and anticipated movement of spill, weather conditions, personnel at scene, and action initiated by personnel. Absorbent materials will be disposed of in a manner subject to the approval of IDEM. Flushing of spilled material with water will not be permitted unless so authorized by IDEM. Contractor shall submit a material handling and spill prevention plan a minimum of 14 days prior to commencing work.

Appropriate concrete washout locations shall be designated by the contractor and included in the Amended SWPPP, if applicable. Installation and maintenance of concrete washouts must follow the specifications of the Indiana Stormwater Quality Manual Chapter 7, pp. 247 to 255.

STORMWATER POLLUTION PREVENTION PLAN

CONSTRUCTION COMPONENT (SECTION C)

C1. Description of pollutants and their sources associated with the proposed land use:

Potential pollutants generated by this type of land use are fertilizer, fuel, oil, antifreeze, grease, and other vehicular pollutants, solvents, and solid wastes associated with function of the parking lot, and trash from humans and waste from pets and other wildlife associated with the recreational use of the park.

C2. Description of proposed post construction stormwater quality measures:

Preservation, where feasible, of the existing vegetation will occur. The establishment of vegetation on any disturbed surfaces will provide filtration of flows from the new pavement. Additionally, any newly created ditches will be stabilized prior to being energized, to allow for the development of vegetation.

C3. Plan details for each stormwater measure:

See other plan sheets.

C4. Sequence describing stormwater quality measure implementation:

Implementation should be completed immediately following final grading and construction activities.

C5. Maintenance guidelines for proposed post construction water quality measures:

Existing swales/ditches will be maintained as vegetated structures to reduce runoff volumes and velocities. Standard maintenance practices, including street sweeping and inlet debris removal, will be employed to monitor sediment accumulation and allow for removal.

C6. Entity that will be responsible for operation and maintenance of the post-construction stormwater measures:

The owner/operator will be responsible for maintenance and post-construction stormwater measures.

STORMWATER POLLUTION PREVENTION PLAN

ADDITIONAL STORMWATER POLLUTION PREVENTION (POST CONSTRUCTION) MEASURES

VEHICLE & EQUIPMENT MAINTENANCE

Description and purpose

Prevent or reduce the contamination of stormwater resulting from vehicle and equipment maintenance by running a "dry and clean site". The best option would be to perform maintenance activities at an offsite facility. If this option is not available then work should be performed in designated areas only, while providing cover for materials stored outside, checking for leaks and spills, and containing and cleaning up spills immediately.

Suitable applications

These procedures are suitable on all construction projects where an onsite yard is necessary for storage and maintenance of heavy equipment and vehicles.

Limitations

Onsite vehicle and equipment maintenance should only be used where it is impractical to send vehicles and equipment offsite for maintenance and repair. Sending vehicles/equipment offsite should be done in conjunction with a stabilized construction entrance/exist. Outdoor vehicle or equipment maintenance is a potentially significant source of stormwater pollution. Activities that can contaminate stormwater include engine repair and service, changing or replacement of fluids, and outdoor equipment storage and parking (engine fluid leaks).

Implementation

If maintenance must occur onsite, use designated areas, located away from drainage courses. Dedicated maintenance areas should be protected from stormwater runoff and runoff, and should be located at least 50 feet from downstream drainage facilities and watercourses.

Drip pans or absorbent pads should be used during vehicle and equipment maintenance work that involves fluids, unless the maintenance work is performed over and impermeable surface in a dedicated maintenance area. Place a stockpile of spill cleanup materials where it will be readily accessible.

All fueling trucks and fueling areas are required to have spill kits and/or use other spill protection devices. Use absorbent materials on small spills. Remove the absorbent materials promptly and dispose of properly. Inspect onsite vehicles and equipment daily at startup for leaks, and repair immediately.

Keep vehicles and equipment clean: do not allow excessive build-up of oil and grease. Segregate and recycle wastes, such as greases, used oil or oil filters, antifreeze, cleaning solutions, automotive batteries, hydraulic and transmission fluids. Provide secondary containment and covers for these materials if stored onsite.

Train employees and subcontractors in proper maintenance and spill cleanup procedures. Drip pans or plastic sheeting should be placed under oil vehicles and equipment placed on docks, barges, or other structures over water bodies when the vehicle or equipment is planned to be idle for more than 1 hour.

Properly dispose of used oils, fluids, lubricants, and spill cleanup materials. Do not place used oil in a dumpster or pour into a storm drain or watercourse. Properly dispose of or recycle used batteries.

Do not bury used tires. Repair leaks of fluids and oil immediately. Listed below is further information if you must perform vehicle or equipment maintenance onsite.

Inspection and maintenance Inspect and verify that bmps are in place prior to the commencement of associated activities. While activities associated with the bmp are under way, inspect weekly to verify continued bmp implementation. Keep ample supplies of spill cleanup materials onsite.

Maintain waste fluid containers in leak proof condition. Vehicles and equipment should be inspected on each day of use. Leaks should be repaired immediately or the problem vehicle(s) or equipment should be removed from the project site. Inspect equipment for damages hoses and leaky gaskets routinely. Repair or replace as needed.

Vehicle and equipment fueling description and purpose Vehicle equipment fueling procedures and practices are designed to prevent fuel spills and leaks, and reduce or eliminate contamination of stormwater. This can be accomplished by using offsite facilities, fueling in designated areas only, enclosing or covering stored fuel, implementing spill controls, and training employees and subcontractors in proper fueling procedures.

Limitations

Onsite vehicle and equipment fueling should only be used where it is impractical to send vehicles and equipment offsite for fueling. Sending vehicles and equipment offsite should be done in conjunction with a stabilized construction entrance/exist.

Implementation Use offsite fueling stations as much as possible. These businesses are better equipped to handle fuel and spills properly. Performing this work offsite can also be economical by eliminating the need for a separate fueling area at a site.

Discourage "topping-off" of fuel tanks. Absorbent spill cleanup materials and spill kits should be available in fueling areas and on fueling trucks, and should be disposed of properly after use.

Drip pans or absorbent pads should be used during vehicle and equipment fueling, unless the fueling is performed over an impermeable surface in a dedicated fueling area. Use absorbent material on small spills. Do not hose down or bury the spill. Remove the absorbent materials promptly and dispose of properly.

Nozzles used in vehicle and equipment fueling should be equipped with an automatic shutoff to control drips. Fueling operations should not be left unattended. Federal, state and local requirements should be observed for any stationary above ground storage tanks.

Inspection and maintenance Vehicles and equipment should be inspected each day of use for leaks. Leaks should be repaired immediately or problem vehicles or equipment should be removed from the project site. Keep ample supplies of spill cleanup materials onsite.

Immediately clean up spills and properly dispose of contaminated soil and cleanup materials.

Solid waste management description and purpose Solid waste management procedures and practices are designed to prevent or reduce the discharge of pollutants to stormwater from solid or construction waste by providing designated waste collection areas and containers, arranging for regular disposal, and training employees and subcontractors.

Suitable applications This bmp is suitable for construction sites where the following wastes are generated or stored: Solid waste generated from trees and shrubs removed during land clearing, demolition of existing structures (rubble), and building construction.

Packaging materials including wood, paper and plastic. Scrap or surplus building materials including scrap metals, rubber, plastic, glass pieces and masonry products.

Domestic wastes including food containers such as beverage cans, coffee cups, paper bags, plastic wrappers and cigarettes. Construction wastes including brick, mortar, timber, steel and metal scraps, pipe and electrical cuttings, nonhazardous equipment parts, styrofoam, and other materials send transport and package construction materials.

Implementation The following steps will help keep a clean site and reduce stormwater pollution: Select designated waste collection areas onsite.

Inform trash-hauling contractors that you will accept only watertight dumpsters for onsite use. Inspect dumpsters for leaks and repair any dumpster that is not watertight.

Provide an adequate number of containers with lids or covers that can be placed over the container to keep rain out or to prevent loss of wastes when it is windy. For additional containers and more frequent use during the demolition phase of construction.

Collect site trash daily, especially during rainy and windy conditions. Remove this solid waste promptly since erosion and sediment control devices tend to collect litter.

Make sure that toxic liquid waste (used oils, solvents and paints) and chemicals (acids, pesticides, additives, curing compounds) are not disposed of in dumpsters designated for construction debris. Do not hose out dumpsters or the site and the contents should be disposed of by the trash hauling contractor.

Arrange for regular waste collection before containers overflow. Clean up immediately if a container does spill.

Make sure that construction waste is collected, removed and disposed of only at authorized disposal areas.

Collection, storage and disposal Littering on the project site should be prohibited.

To prevent clogging of the storm drainage system, litter and debris removed from drainage grates, trash racks, and ditch lines should be a priority. Trash receptacles should be provided in the contractor's yard, field trailer areas, and at locations where workers congregate for lunch and break periods.

Litter from work areas within the construction limits of the project site should be collected and placed in watertight dumpsters at least weekly, regardless of whether the litter was generated by the contractor, the public, or others. Collected litter and debris should not be placed in or next to drain inlets, stormwater drainage systems, or watercourses.

Dumpsters of sufficient size and number should be provided to contain the solid waste generated by the project. Full dumpsters should be removed from the project site and the contents should be disposed of by the trash hauling contractor.

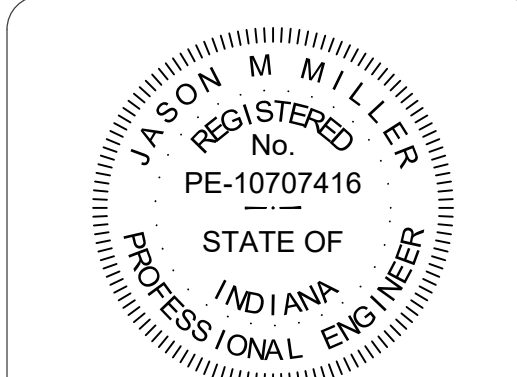
Construction debris and waste should be removed from the site biweekly or more frequently as needed. Construction material visible to the public should be stored or stacked in an orderly manner.

Stormwater runoff should be prevented from contacting solid waste through the use of berms, dikes, or other temporary diversion structures or through the use of measures to elevate waste from site surfaces. Solid waste storage areas should be located at least 50 feet from drainage facilities and watercourses and should not be located in areas prone to flooding or ponding.

EROSION AND SEDIMENT CONTROL PLAN NOTES

- The City of Fishers M54 under the authority of City of Fishers Utilities is the review authority for this project.
- Contractor is to follow the requirements of the "INDIANA STORMWATER QUALITY MANUAL" and the "INDIANA DEPARTMENT OF ENVIRONMENTAL MANAGEMENT", as well as the City of Fishers M54 requirements and regulations.
- Soil erosion control systems shall be constructed as shown on the soil erosion control plan and/or as specified by the design engineer or inspector.
- Perimeter erosion barrier shall be placed in a manner that will intercept water before it leaves the area of construction. All silt fences shall be placed as close to the boundary as possible with the ends extending upslope. The maximum spacing of posts shall be 5 feet. When wire or other type of approved backing is used the maximum spacing may be increased to 6 feet. Spacing may need to be adjusted so that posts are located in low areas where water may pond. The filter fabric and wire support, if used, must be securely fastened to the upslope side of the posts using heavy duty wire staples at least one inch long or tie wires (10 gage minimum). The fabric shall have staples at least one inch long or tie wires (10 gage minimum).
- Inlet filters shall be constructed of a replaceable reinforced filter bag suspended from a retainer ring or frame. Inlet filter systems shall be the catch-all with overflow, as furnished by manholes materials inc., or pre-approved equal. Care should be taken when maintaining or removing this filter fabric bag to not allow the previously trapped debris to enter the storm sewer system.
- The bed for riprap shall be trimmed and shaped to allow the finished surface to conform to the lines specified. At the toe of the slope, the riprap shall commence on a continuation of the slope after excavation to accommodate the full depth of fabric, bedding layer, and riprap specified.
- Filter fabric is required under stone riprap gradation 4, 5, 6 and 7 for all uses, and under concrete block, broken concrete, and stone or broken concrete dumped riprap when used for soil erosion protection.
- Streets are to be kept clean from debris daily.
- Soil erosion control measures are to be checked and repaired (if necessary) daily.
- All erosion control protection shall be kept in place until the ground has been stabilized or the pavement has been installed.
- Any disturbed areas on which construction activities have stopped (permanently or temporarily) for 14 days, must be stabilized in accordance with NPDES requirements.
- This erosion control program is applicable to the entire development and as such is made a part of these construction plans. Inasmuch as the site may be developed at different times, the system must be flexible enough to permit different areas to be developed and still guarantee adequate protection against soil erosion. It shall be the contractor's responsibility to incorporate the erosion control items contained in these construction plans into the construction techniques and procedures. The contractor shall ensure that this erosion control plan is available on-site as per CSGP for unannounced site inspection by the governing authority. Additional copies are available upon request. The contractor is responsible for repairing and modifying any unforeseen or anticipated failure or potential failure in all applications related to CSGP. The erosion and sediment control plan is required to be implemented and maintained in a timely manner to effectively control the site. This plan is not intended to be all inclusive. Modifications to the plan must be made due to weather problems, construction sequence changes or failed practices. Project managers and contractors have the responsibility to modify plans if measures fail or failure is anticipated.
- Appropriate measures shall be taken by the contractor to minimize or eliminate wastes or unused building materials, including but not limited to garbage, debris, cleaning wastes, wastewater, and other substances from being carried from the site by runoff. Proper disposal or management of all wastes and unused building materials, appropriate to the nature of the waste or material is required.
- Sediment being tracked from the site onto roadways shall be minimized. Roadways shall be kept clear of accumulated sediment by scraping or sweeping only. Cleared sediment shall be returned to a controlled location.
- Overburden shall be placed in stockpiles as designated on this sheet or as specified by RMA. The location and height (if stated) of said stockpile may not be altered from that within these plans without the prior written approval of RMA. If additional stockpile area is needed, location shall be at the discretion of RMA (as applicable). See grading and drainage plan for further notes.
- All onsite storm drain inlets shall be protected against sedimentation with gravel donut drop inlet protection (see sheet C400) when pavement is not in place and with gravelbags or sandbags when pavement is in place. Temporary traffic barriers shall be placed on the road so that gravelbags or sandbags are not damaged by vehicles.
- Existing vegetation shall be retained on the construction site wherever possible until the area must be disturbed for construction activities. A buffer strip of existing vegetation (minimum of ten feet wide) shall be maintained around the perimeter of the site whenever possible to reduce offsite erosion and sedimentation.
- Staged clearing and grading practices shall be used whenever possible to reduce the amount of disturbed area to the absolute minimum needed for immediate construction activities.
- Diversion, perimeter dikes, and waterways shall be constructed to intercept considerable offsite runoff and divert it away from bare and disturbed soil until structures to capture the offsite runoff are in place. Said diversions shall be protected against erosion with riprap, straw bale dams, or other means. See appropriate specifications and details.
- Concerning seeding and fertilization, the contractor shall seek the recommendation of the local soil conservation service for this development as the soils may vary in location and nutrient requirements depending upon the soil type, amount of shade, and type of seed. These recommendations shall be evaluated by the owner and/or his agent and, if believed to be reasonable, shall be executed as part of the construction.
- Except as prevented by inclement weather conditions beyond the control of the contractor, appropriate vegetative practices will be initiated within seven days of the last land disturbing activity at the site.
- During the period of construction activity at the site, all erosion control measures necessary to meet the requirements of CSGP shall be maintained by the contractor at his expense.
- Erosion control measures shall be inspected and maintained on a routine basis particularly after each storm event by the contractor. Damaged measures shall be repaired or replaced immediately. See the maintenance requirements for each practice for more details.
- Maintenance of the remaining erosion control measures shall be the responsibility of the owner after the contractor has terminated land disturbing activities and has implemented erosion control measures to the satisfaction of the owner.
- Retain floatable wind blown materials on site by storing all trash and building material waste in enclosures until proper disposal at off-site facilities. Check adjacent areas daily and pick-up construction waste materials and debris that have blown or washed off site.
- Permanently stabilize all surface area within and adjacent to the site that is disturbed by vehicles, grading and other construction for the proposed facility. Stabilization is obtained when the disturbed surface covered with structures, paving and/or perennial vegetation having a uniform coverage density of at least 80%. Stabilization of all disturbed areas is required before terminating maintenance and removal of erosion control measures.
- Contractors shall inspect pollution control measures at least once every 14 days and within 24 hours after a storm event of ½ inch or greater. Damaged measures that prove to be ineffective shall be replaced with more effective measures or additional measures within seven days. Repeated failure of a control measure requires installation of a more suitable device to prevent discharge of pollutants from the construction site.
- Installation of additional erosion control measures may be required by the city or state. Contractor to verify requirements prior to beginning any work on the project site.
- Care shall be taken to minimize the encroachment of sediment into all storm drain appearances, public streets, and onto private property until impervious material (roadparking area surface) is applied or until proposed landscape and permanent seeding has been established.

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DESIGNED: KAG
DRAWN BY: APB
CHECKED BY: JMM
DATE: 2024-01-26

REVISIONS		
NO.	DATE	BY

Temporary Construction Ingress/Egress Pad (Large Sites—Two Acres or Larger)

(Practice as shown in Indiana Storm Water Quality Manual)

Purpose

To provide ingress/egress to a construction site and minimize tracking of mud and sediment onto public roadways.

Specifications

Location

- Avoid locating on steep slopes or at curves in public roads.

Dimensions

- Width - 20 feet minimum or full width of entrance/exit roadway, whichever is greater.
- Length - 150 feet minimum (length can be shorter for small sites).
- Thickness - eight inches minimum.

Washing Facility (optional)

- Level area with three inch, or larger, washed aggregate or install a commercial wash rack.
- Divert waste water to a sediment trap or basin.

Materials

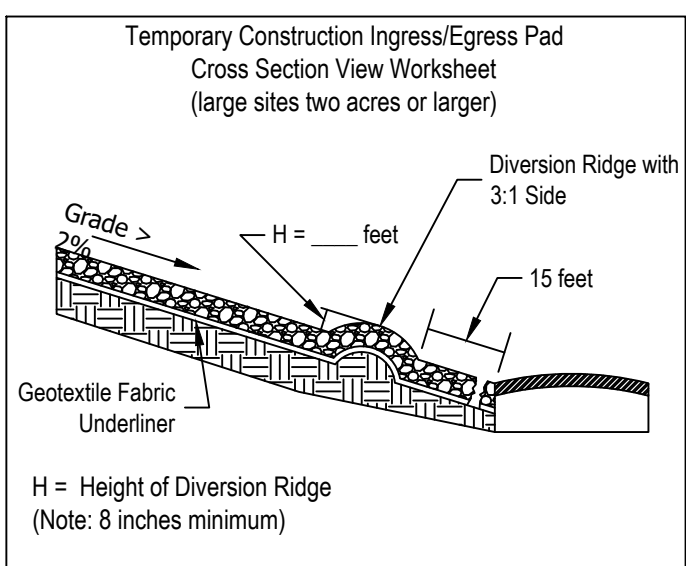
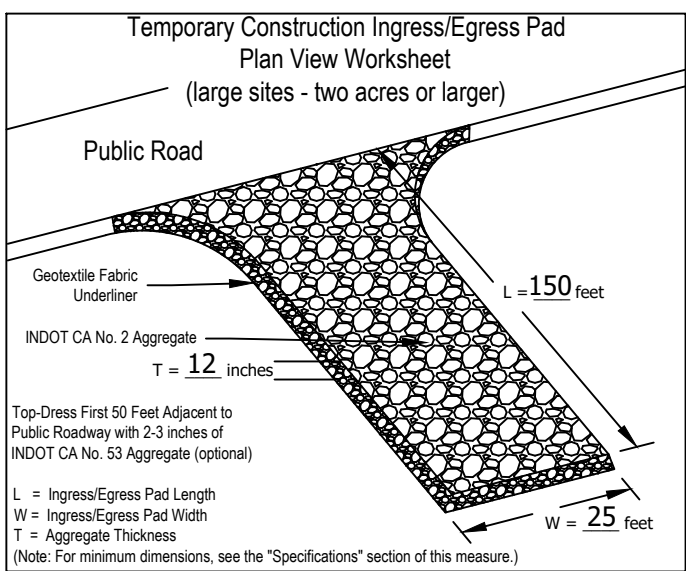
- One to two and one-half inch diameter washed aggregate [Indiana Department of Transportation Course Aggregate No. 2 (see Appendix D)].
- One-half to one and one-half inch diameter washed aggregate [INDOT CA No. 53 (see Appendix D)].
- Geotextile fabric underlayment (see Appendix C) (used as a separation layer to prevent intermixing of aggregate and the underlying soil material and to provide greater bearing strength when encountering wet conditions or soils with a seasonal high water table limitation).

Installation

- Remove all vegetation and other objectionable material from the foundation area.
- Grade foundation and crown for positive drainage. If the slope of the construction entrance is toward a public road and exceeds two percent, construct an eight inch high diversion ridge with a ratio of 3-to-1 side slopes across the foundation area about 15 feet from the entrance to divert runoff away from the road (see Temporary Construction Ingress/Egress Pad Cross-Section View Worksheet).
- Install a culvert pipe under the pad if needed to maintain proper public road drainage.
- If wet conditions are anticipated, place geotextile fabric on the graded foundation to improve stability.
- Place aggregate (INDOT CA No. 2) to the dimensions and grade shown in the construction plans, leaving the surface smooth and sloped for drainage.
- Top-dress the first 50 feet adjacent to the public roadway with two to three inches of washed aggregate (INDOT CA No. 53) [optional, used primarily where the purpose of the pad is to keep soil from adhering to vehicle tires].
- Where possible, divert all storm water runoff and drainage from the ingress/egress pad to a sediment trap or basin.

Maintenance

- Inspect daily.
- Reshape pad as needed for drainage and runoff control.
- Top dress with clean aggregate as needed.
- Immediately remove mud and sediment tracked or washed onto public roads.
- Flushing should only be used if the water can be conveyed into a sediment trap or basin.



Silt Fence

(Practice as shown in Indiana Storm Water Quality Manual)

Purpose

To trap sediment from small, disturbed areas by reducing the velocity of sheet flow. Silt fences capture sediment by ponding water to allow deposition, not by filtration.

Note: Silt fence is **not recommended for use as a diversion and should not be used across a stream, channel, ditch, swale, or anywhere that concentrated flow is anticipated.**

Specifications

Drainage Area

- Limited to one-quarter acre per 100 linear feet of fence.
- Further restricted by slope steepness (see Table 1).

Effective Life

- Six months (maximum).

Location

- Installed parallel to the slope contour.
- Minimum of 10 feet beyond the toe of the slope to provide a broad, shallow sediment pool.
- Accessible for maintenance (removal of sediment and silt fence repair).

Spacing

Table 1. Slope Steepness Restrictions		
Percent Slope		Maximum Distance
< 2%	< 50:1	100 feet
2% - 5%	50:1 to 20:1	75 feet
5% - 10% ±	20:1 to 10:1	50 feet
10% - 20% ±	10:1 to 5:1	25 feet
> 20% ±	> 5:1	15 feet

Consider other alternatives.

Note: Multiple rows of silt fence are not recommended on the same slope.

Trench

- Depth - eight inches minimum.
- Width - four inches minimum.
- After installing fence, backfill with soil material and compact (to bury and anchor the lower portion of the fence fabric).

Note: An alternative to trenching is to use mechanical equipment to plow in the silt fence.

Materials and Silt Fence Specifications

- Fabric - woven or non-woven geotextile fabric meeting specified minimums outlined in Table 2.

Table 2. Geotextile Fabric Specifications for Silt Fence (minimum)

Physical Property	Woven Geotextile Fabric	Non-Woven Geotextile Fabric
Filtering efficiency	85%	85%
Textile strength at 20% elongation		
Standard strength	30 lbs. per linear inch	50 lbs. per linear inch
Extra strength	50 lbs. per linear inch	70 lbs. per linear inch
Slurry flow rate	0.3 gal./min./square feet	4.5 gal./min./square feet
Water flow rate	15 gal./min./square feet	220 gal./min./square feet
UV resistance	70%	85%
Post spacing	7 feet	5 feet

Note: Silt fences can be purchased commercially.

- Height - a minimum of 18 inches above ground level (30 inches maximum).

- Reinforcement - fabric securely fastened to posts with wood lathe.

Support Posts

2 x 2 inch hardwood posts. Steel fence posts may be substituted for hardwood posts (steel posts should have projections for fastening fabric).

Spacing

- Eight feet maximum if fence is supported by wire mesh fencing.
- Six feet maximum for extra-strength fabric without wire backing.

Installation

Prefabricated silt fence (see Exhibits 1, 2, and 3)

- Lay out the location of the fence so that it is parallel to the contour of the slope and at least 10 feet beyond the toe of the slope to provide a sediment storage area. Turn the ends of the fence up slope such that the point of contact between the ground and the bottom of the fence end terminates at a higher elevation than the top of the fence at its lowest point (see Exhibit 1).

- Excavate an eight-inch deep by four-inch wide trench along the entire length of the fence line (see Exhibit 2). Installation by plowing is also acceptable.

- Install the silt fence with the filter fabric located on the up-slope side of the excavated trench and the support posts on the down-slope side of the trench.

- Drive the support posts at least 18 inches into the ground, tightly stretching the fabric between the posts as each is driven into the soil. A minimum of 12 inches of the filter fabric should extend into the trench. (If it is necessary to join the ends of two fences, use the wrap joint method shown in Exhibit 3.)

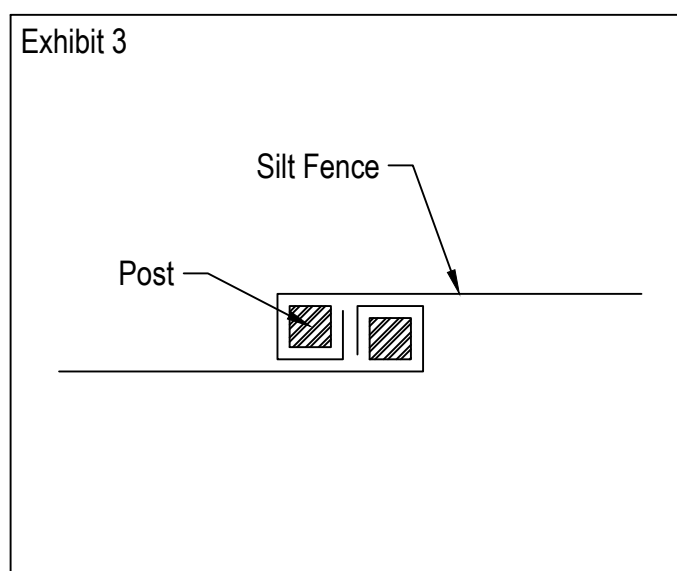
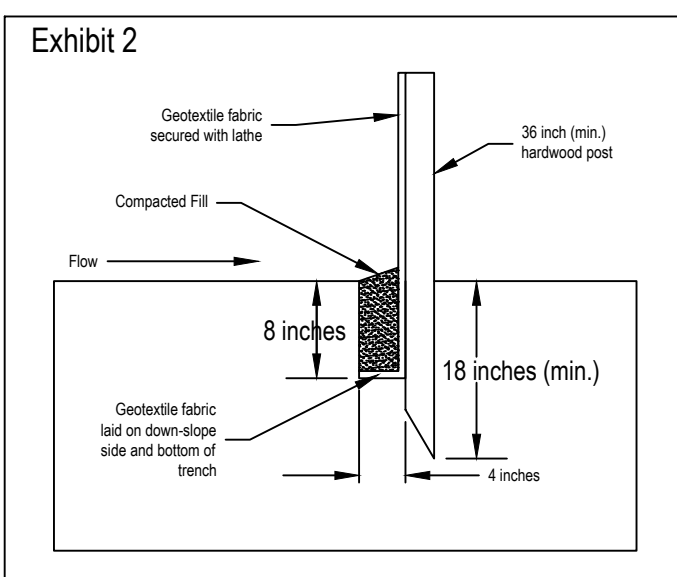
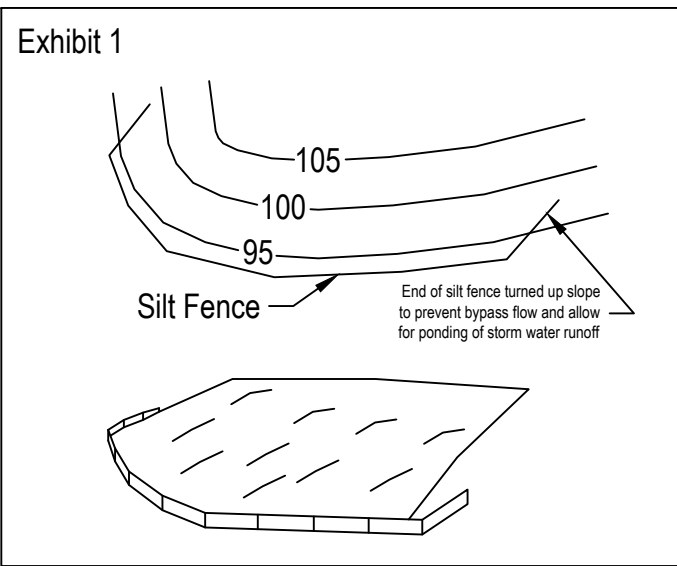
- Lay the lower four inches of filter fabric on the bottom of the trench and extend it toward the up-slope side of the trench.

- Backfill the trench with soil material and compact it in place.

Note: If the silt fence is being constructed on-site, attach the filter fabric to the support posts (refer to Tables 1 and 2 for spacing and geotextile specifications) and attach wooden lathe to secure the fabric to the posts. Allow for at least 12 inches of fabric below ground level. Complete the silt fence installation, following steps 1 through 6 above.

Maintenance

- Inspect within 24 hours of a rain event and at least once every seven calendar days.
- If fence fabric tears, starts to decompose, or in any way becomes ineffective, replace the affected portion immediately. **Note: All repairs should meet specifications as outlined within this measure.**
- Remove deposited sediment when it is causing the filter fabric to bulge or when it reaches one-half the height of the fence at its lowest point. When contributing drainage area has been stabilized, remove the fence and sediment deposits, grade the site to blend with the surrounding area, and stabilize.



Temporary Seeding

(Practice as shown in Indiana Storm Water Quality Manual)

Purpose

- To provide vegetative cover where permanent seeding is not desirable or practical.
- To reduce erosion and sedimentation damage by stabilizing disturbed areas.
- To reduce problems associated with mud or dust from unvegetated soil surfaces during construction.
- To reduce sediment-laden storm water runoff from being transported to downstream areas.
- To improve visual aesthetics of construction areas.

Specifications

Seedbed Preparation

- Grade and apply soil amendments.

Seeding Frequency

- Seed rough graded areas daily while soil is still loose and moist.

Density of Vegetative Cover

- Eighty percent or greater over the soil surface.

Materials

- Soil Amendments - Select materials and rates as determined by a soil test (contact your county soil and water conservation district or cooperative extension office for assistance and soil information, including available soil testing services) or 400 to 600 pounds of 12-12-12 analysis fertilizer, or equivalent. Consider the use of reduced phosphorus application where soil tests indicate adequate phosphorous levels in the soil profile.
- Seed - Select appropriate plant species seed or seed mixtures on the basis of quick germination, growth, and time of year to be seeded (see Table 1).
- Mulch -

- Straw, hay, wood fiber, etc. (to protect seedbed, retain moisture, and encourage plant growth).
- Anchored to prevent removal by wind or water or covered with manufactured erosion control blankets.

Table 1. Temporary Seeding Specifications

Seed Species 1	Rate per Acre	Planting Depth	Optimum Dates 2
Wheat or Rye	150 lbs.	1 to 1½ inches	Sept. 15 - Oct. 30
Spring Oats	100 lbs.	1 inch	March 1 - April 15
Annual Ryegrass	40 lbs.	¼ inch	March 1 - May 1 Aug. 1 - Sept. 1
German Millet	40 lbs.	1 to 2 inches	May 1 - June 1
Sudangrass	35 lbs.	1 to 2 inches	May 1 - July 30
Buckwheat	60 lbs.	1 to 2 inches	April 15 - June 1
Com (broadcast)	300 lbs.	1 to 2 inches	May 11 - Aug. 10
Sorghum	35 lbs.	1 to 2 inches	May 1 - July 15

1 Perennial species may be used as a temporary cover, especially if the area to be seeded will remain idle for more than one year (see Permanent Seeding on page 35).

2 Seeding done outside the optimum seeding dates increases the chances of seeding failure. Dates may be extended or shortened based on the location of the project site within the state.

Notes:

Mulch alone is an acceptable temporary cover and may be used in lieu of temporary seeding, provided that it is appropriately anchored.

A high potential for fertilizer, seed, and mulch to wash exists on steep banks, cuts, and in channels and areas of concentrated flow.

Application

Seedbed Preparation

- Test soil to determine pH and nutrient levels.
- Apply soil amendments as recommended by the soil test. If testing is not done, apply 400 to 600 pounds per acre of 12-12-12 analysis fertilizer, or equivalent.
- Work the soil amendments into the upper two to four inches of the soil with a disk or rake operated across the slope.

Seeding

- Select a seed species or an appropriate seed mixture and application rate from Table 1.
- Apply seed uniformly with a drill or cultipacker seeder or by broadcasting. Plant or cover seed to the depth shown in Table 1.

Notes:

- If drilling or broadcasting the seed, ensure good seed-to-soil contact by firming the seedbed with a roller or cultipacker after completing seeding operations.
- Daily seeding when the soil is moist is usually most effective.
- If seeding is done with a hydroseeder, fertilizer and mulch can be applied with the seed in a slurry mixture.
- Apply mulch (see **Mulching** on page 55 or **Compost Mulching** on page 59) and anchor it in place.

Maintenance

- Inspect within 24 hours of each rain event and at least once every seven calendar days.
- Check for erosion or movement of mulch and repair immediately.
- Monitor for erosion damage and adequate cover (80 percent density); reseed, fertilize, and apply mulch where necessary.
- If nitrogen deficiency is apparent, top-dress fall seeded wheat or rye seeding with 50 pounds per acre of nitrogen in February or March.

Topsoil Salvage & Utilization

(Practice as shown in Indiana Storm Water Quality Manual)

Purpose

- To provide a method of preserving topsoil for use in establishing vegetation to achieve final site stabilization.
- To provide a suitable soil medium for vegetative growth on areas with poor moisture, low nutrient levels, undesirable pH, and/or the presence of other materials that would inhibit establishment of vegetation.

Specifications

Material

Typically the darker, friable, loamy surface layer of soil found immediately below vegetation. (Topsoil is the surface layer of the soil profile, generally characterized as darker than the underlying subsoil due to enrichment with organic matter. It is the major zone of root development and biological activity. Microorganisms that enhance plant growth thrive in this layer. Topsoil can usually be differentiated from subsoil by texture as well as color. Clay content usually increases in the subsoil. The depth of natural topsoil may be quite variable. On severely eroded sites it may be gone entirely.)

Storage Area

- Free of stumps, rock, and construction debris.
- Stockpile covered with vegetation or a tarp.
- Surrounded by a sediment barrier or sediment filter.
- Stockpile outside rooting zone of trees to be protected.

Removal/Storage/Respreading Plan

- Needed to assure these operations will be compatible with overall construction activities at the site.

Application

Salvaging and Stockpiling Topsoil

- Determine depth and suitability of topsoil at site. For help, contact your local soil and water conservation district office to obtain a county soil survey report or utilize the services of a consulting soil scientist.
- Prior to stripping topsoil, install any site-specific down slope measures needed to control storm water runoff and sedimentation.
- Remove soil material no deeper than the "surface soil" (e.g., A or Ap horizon).
- Stockpile the material in accessible locations that will not interfere with other construction activities or block drainage. Several small stockpiles around the construction site are usually more efficient and easier to contain than one large stockpile.
- Stockpiled soil should be temporarily seeded or covered with a tarp and/or surrounded by a sediment control measure.

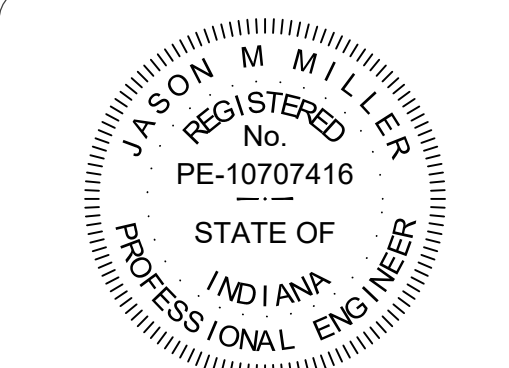
Spreading Topsoil

- Prior to applying topsoil, grade the subsoil and roughen the top three to four inches by disking. (This helps the topsoil bond with the subsoil. If the topsoil and existing soil surface are not properly bonded, water will not infiltrate evenly and it will be difficult to establish vegetation.)
- Apply topsoil evenly to a depth of at least four inches, then compact slightly to improve contact with the subsoil.
 - Depths of four inches or greater are recommended if the underlying material is bedrock, fine-textured clayey soils, loose sand, rock fragments, aggregate, or other unsuitable soil material.
 - Do not apply topsoil when the site is wet, muddy, or frozen because it makes spreading difficult, inhibits bonding, can cause compaction problems, and forms a cloddy seedbed. Whenever possible avoid applying topsoil to the existing soil surface if the two layers have contrasting textures. Clayey topsoil over sandy subsoil is a particularly poor combination, as water creeps along the junction between the two soil layers and may cause the topsoil to slough.
 - Applying topsoil on slopes with a ratio of 2:1 or greater may result in soil slippage and may require additional measures to provide good bonding of the soil material.
- After spreading the topsoil, grade and stabilize the site.

Maintenance

- Inspect daily.
- Check for damage to perimeter barrier; repair immediately.
- Check for erosion or damage to newly spread topsoil; repair immediately and revegetate.

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DESIGNED: KAG
DRAWN BY: APB
CHECKED BY: JMM
DATE: 2024-01-26

REVISIONS		
NO.	DATE	BY

STORM WATER
POLLUTION
PREVENTION PLAN
DETAILS

ATWELL SUITES
AN IHG HOTEL
ERLEN DR & MINDEN
Dr FISHERS, IN

HORIZONTAL SCALE

VERTICAL SCALE

SHEET

C402

Dust Control

(Practice as shown in Indiana Storm Water Quality Manual)

Purpose

To reduce wind-borne soil particles (dust) that may be transported and deposited in waterbodies, create a health hazard, and/or a visibility hazard.

Specifications

Site Management

- Dust control measures may be applied at any construction site, but should always be utilized for sites with dry, unvegetated soils that are exposed to wind or vehicle traffic that can potentially result in the generation of dust.
- Where practical, locate haul roads and stockpiles away from existing residential housing, businesses, and public areas.
- Limit construction equipment on haul roads to the extent practical. Construction equipment should maintain low speeds of 15 miles per hour or less.
- Trucks leaving a project site should be covered, especially where conditions may result in blowing of haul material.
- Minimize areas of disturbed, unvegetated soil exposed to traffic and wind.
- Water quality impacts should always be considered when selecting a dust control treatment.

Materials

Temporary Methods -
Select an appropriate method to reduce dust generation from haul roads, heavy traffic areas, paved roads, or large open areas of unvegetated land. A combination of appropriate methods will yield the best results.

Watering/Irrigation

- Typically used for haul roads and heavy traffic areas.
- Used as an emergency treatment measure.

Dust suppressants that are commercially available. Some products may be toxic to the environment. The level of toxicity and proximity to waterbodies and other unique resource areas should be considered when selecting a product. Products should be strictly applied according to the standards and specifications of the manufacturer and in accordance with applicable local, state, and federal regulations.

Chlorides

- Typically used for unpaved construction haul roads.
- Calcium Chloride (CaCl) and Magnesium Chloride (MgCl).
- Hygroscopic product that absorbs water.
- Applied as a liquid solution or dry granules/flakes.
- Apply and maintain in an environmentally safe manner.
- Application can inhibit plant growth.
- Runoff from treated areas can pollute waterbodies.

Resins

- Typically applied to haul roads, soil stockpiles, unvegetated soils, or used as a tackifier.
- Manufactured from petroleum, wood residue, or other chemicals.
- Bonds soil particles together.
- Water sheds off soils treated with these products.
- Low environmental impact after application.
- Avoid introducing resins into waterbodies during application.

Polymer Products (acrylic polymers and polymer emulsions)

- Typically used on soil stockpiles, unvegetated soils.
- May also be applicable to haul roads.
- Bonds soil particles together.
- Used to stabilize and/or seal soils.
- Apply with truck or hydrosowing machine.
- Use restricted to anionic polymer mixtures and shall have less than or equal to .05 percent free acrylamide monomer by weight as established by the U.S. Food and Drug Administration and the U.S. Environmental Protection Agency.

Ligninsulfonates

- Typically used for haul roads.
- Derived from wood pulp.
- Bonds soil particles, however retains some plasticity.
- Water soluble and could lose bonding capability in heavy rain.
- Environmentally friendly.

Tillage

- Large open disturbed areas.
- Used as an emergency treatment measure.
- Relatively flat areas of less than two percent.
- Chisel plows with shanks spaced 12 to 18 inches apart, straight-toothed harrows, or similar tillage equipment.
- Best if implemented before soil begins to blow.

Mulch (see **Mulching** on page 55)

- Disturbed areas.
- Effective, temporary measure.
- Fast and effective measure.

Temporary Vegetative Cover (see **Temporary Seeding** on page 31)

- Disturbed areas.
- Effective, temporary measure.

Physical Barriers

- Emergency treatment measure.
- Solid board fences, snow fences, burlap fences, crate walls, bales of hay, etc.
- Used to control air currents and soil migration.

Street Sweeping

- Paved areas.
- Maintenance measure.
- Street sweeper, vacuum truck, or a bucket end loader.

Nonerosive, Nonvegetative Soil Cover Measures

- For example, aggregate (see **Temporary Construction Ingress/Egress** on page 17), tarps, etc.

Permanent Methods

Permanent vegetative cover (see **Permanent Seeding** on page 35 and **Tree Preservation and Protection** on page 13).

Preserve existing vegetation that is suitable to reducing blowing soil and diminishing wind velocity.

Application

Prepare site for the application method or product that was selected for dust control. For example, all haul roads should be bladed smooth with a crown or slope to avoid ponding and compacted as needed.

Watering

- Sprinkle soil surface until soil is moist.
- Apply at a rate to keep the soil moist/wet, but not saturated or muddy. Over watering may result in muddy conditions and a high potential for tracking of sediment off-site by vehicle tires/tracks.
- Reapply as required. Constant repetition is required for effective control. Frequency will be dependent on soil type and construction traffic.

Commercially Available Dust Suppressants

Includes chlorides (calcium and magnesium), resins, polymer products, and ligninsulfonates.

- Apply according to the standards and specifications of the manufacturer and in accordance with all applicable local, state, and federal regulations.
- Prepare site for application.
- Apply and maintain according to the recommendation of the manufacturer.

Mulch

- Apply mulch and anchor in place by crimping or applying a tackifier (see **Mulching** on page 55).

Temporary Vegetative Cover

- Prepare seedbed, seed, and apply mulch. Mulch should be anchored in place (see **Temporary Seeding** on page 31 and **Mulching** on page 55).

Physical Barriers

- Select an appropriate barrier for site conditions.
- Place the barrier or barriers at right angles to the prevailing winds at intervals of approximately 10 times the height of the barrier.

Street Sweeping

- Choose a method that does not generate large amounts of dust. Rotary brushes fixed to the front of equipment may just resuspend dust particles.
- Clear sediment from the paved area.
- Dispose of all cleared material properly so that is not redeposited in the street.

Tillage

- Best if implemented before soil begins to blow.
- Tillage should begin on the windward side of the site and leave six-inch furrows, preferably perpendicular to the prevailing wind direction to gain the greatest reduction.
- Roughen the soil surface to bring clods to the surface.

Maintenance

- Inspect daily.
- Repeat treatments as needed when using temporary dust control methods.
- Commercial products should be used in accordance with the recommendations of the manufacturer.

Concrete Washout

(Practice as shown in Indiana Storm Water Quality Manual)

Purpose

Concrete washout systems are implemented to reduce the discharge of pollutants that are associated with concrete washout waste through consolidation of solids and retention of liquids. Uncured concrete and associated liquids are highly alkaline which may leach into the soil and contaminate ground water or discharge to a waterbody or wetland which can elevate the pH and be harmful to aquatic life. Performing concrete washout in designated areas and into specifically designed systems reduces the impact concrete washout will have on the environment.

Specifications

Site Management

- Complete construction/installation of the system and have washout locations operational prior to concrete delivery.
- Do not wash out concrete trucks or equipment into storm drains, wetlands, streams, rivers, creeks, ditches, or streets.
- Never wash out into a storm sewer drainage system. These systems are typically connected to a natural conveyance system.
- Where necessary, provide stable ingress and egress (see **Temporary Construction Ingress/Egress Pad** on page 17).
- It is recommended that washout systems be restricted to washing concrete from mixer and pump trucks and not used to dispose of excess concrete or residual loads due to potential to exceed the design capacity of the washout system. Small amounts of excess or residual concrete (not washout water) may be disposed of in areas that will not result in flow to an area that is to be protected.
- Install systems at strategic locations that are convenient and in close proximity to work areas and in sufficient number to accommodate the demand for disposal.
- Install signage identifying the location of concrete washout systems.

Location

- Locate concrete washout systems at least 50 feet from any creeks, wetlands, ditches, karst features, or storm drains/manmade conveyance systems.
- To the extent practical, locate concrete washout systems in relatively flat areas that have established vegetative cover and do not receive runoff from adjacent land areas.
- Locate in areas that provide easy access for concrete trucks and other construction equipment.
- Locate away from other construction traffic to reduce the potential for damage to the system.

General Design Considerations

- The structure or system shall be designed to contain the anticipated washout water associated with construction activities.
- The system shall be designed, to the extent practical, to eliminate runoff from entering the washout system.
- Runoff from a rainstorm or snowmelt should not carry wastes away from the washout location.
- Washout will not impact future land uses (i.e., open spaces, landscaped areas, home sites, parks).
- Washout systems/containment measures may also be utilized on smaller individual building sites. The design and size of the system can be adjusted to accommodate the expected capacity.

Prefabricated Washout Systems/Containers

- Self-contained sturdy containment systems that are delivered to a site and located at strategic locations for concrete disposal.
- These systems are manufactured to resist damage from construction equipment and protect against leaks or spills.
- Manufacturer or supplier provides the containers. The project site manager maintains the system or the supplier provides complete service that includes maintenance and disposal.
- Units are often available with or without ramps. Units with ramps lend themselves to accommodate pump trucks.
- Maintain according to the manufacturer's recommendations.

Designed and Installed Units

These units are designed and installed on site. They tend to be less reliable than prefabricated systems and are often prone to failure. Concrete washout systems can be constructed above or below grade. It is not uncommon to have a system that is partly below grade with an additional containment structure above grade.

- Washout systems shall utilize a pit or bermed area designed and maintained at a capacity to contain all liquid and concrete waste generated by washout operations.
- The volume of the system must also be designed to contain runoff that drains to the system and rainfall that enters the system for a two-yearfrequency, 24-hour storm event.

Below Grade System

- A washout system installed below grade should be a minimum of ten feet wide by ten feet long, but sized to contain all liquid and waste that is expected to be generated between scheduled cleanout periods. The size of the pit may be limited by the size of polyethylene available. The polyethylene lining should be of adequate size to extend over the entire excavation.
- Include a minimum 12-inch freeboard to reasonably ensure that the structure will not overtop during a rain event.
- Line the pit with ten millimeter polyethylene lining to control seepage.
- The bottom of excavated pit should be above the seasonal high water table.

Above Grade System

- A system designed and built above grade should be a minimum of ten feet wide by ten feet long, but sized to contain all liquid and waste that is expected to be generated between scheduled cleanout periods. The size of the containment system may be limited by the size of polyethylene available. The polyethylene lining should be of adequate size to extend over the berm or containment system.
- The system design may utilize an earthen berm, straw bales, sandbags, or other acceptable barriers that will maintain its shape and integrity and support the polyethylene lining.
- Include a minimum four-inch freeboard as part of the design.

Washout Procedures

- Do not leave excess mud in the chutes or hopper after the pour. Every effort should be made to empty the chutes and hopper at the pour. The less material left in the chutes and hopper, the quicker and easier the cleanout. Small amounts of excess concrete (not washout water) may be disposed of in areas that will not result in flow to an area that is to be protected.
- At the washout location, scrape as much material from the chutes as possible before washing them. Use non-water cleaning methods to minimize the chance for waste to flow off site.
- Remove as much mud as possible when washing out.
- Stop washing out in an area if you observe water running off the designated area or if the containment system is leaking or overflowing and ineffective.
- Do not back flush equipment at the project site. Back flushing should be restricted to the plant as it generates large volumes of waste that more than likely will exceed the capacity of most washout systems. If an emergency arises, back flush should only be performed with the permission of an on-site manager for the project.
- Do not use additives with wash water. Do not use solvents or acids that may be used at the target plant.

Materials

- Minimum of ten millimeter polyethylene sheeting that is free of holes, tears, and other defects. The sheeting selected should be of an appropriate size to fit the washout system without seams or overlap of the lining (**designed and installed systems**).
- Signage.
- Orange safety fencing or equivalent.
- Straw bales, sandbags (bags should be ultraviolet-stabilized geotextile fabric), soil material, or other appropriate materials that can be used to construct a containment system (**above grade systems**).
- Metal pins or staples at a minimum of six inches in length, sandbags, or alternative fastener to secure polyethylene lining to the containment system.
- Non-collapsing and non-water holding cover for use during rain events (optional).

Installation

Prefabricated Washout Systems/Containers

- Install and locate according to the manufacturer's recommendations.

Designed and Installed Systems

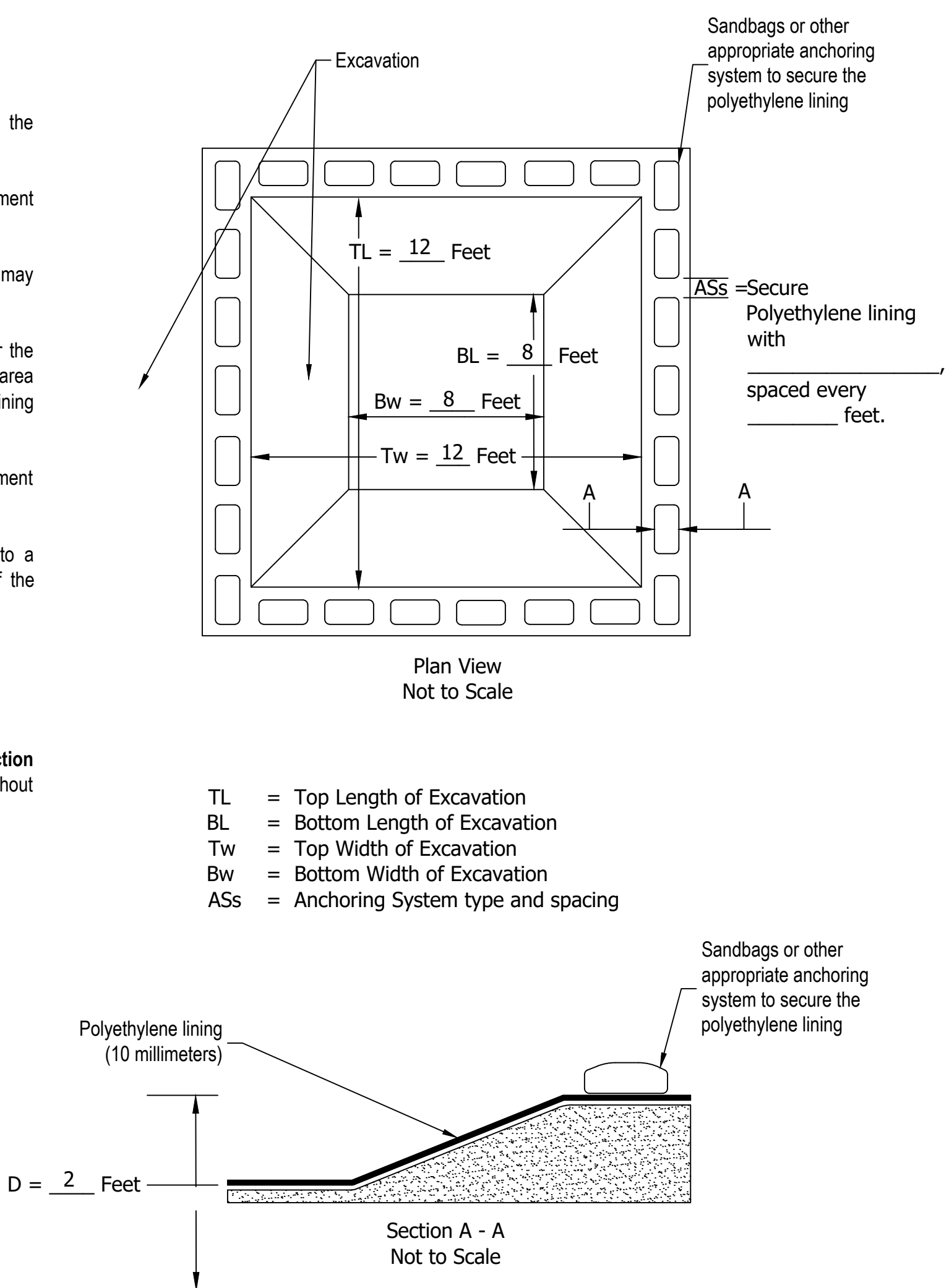
- Utilize and follow the design in the storm water pollution prevention plan to install the system.
- Dependent upon the type of system, either excavate the pit or install the containment system.
- A base shall be constructed and prepared that is free of rocks and other debris that may cause tears or punctures in the polyethylene lining.
- Install the polyethylene lining. For excavated systems, the lining should extend over the entire excavation. The lining for bermed systems should be installed over the pooling area with enough material to extend the lining over the berm or containment system. The lining should be secured with pins, staples, or other fasteners.
- Place flags, safety fencing, or equivalent to provide a barrier to construction equipment and other traffic.
- Place a non-collapsing, non-water holding cover over the washout facility prior to a predicted rainfall event to prevent accumulation of water and possible overflow of the system (optional).
- Install signage that identifies concrete washout areas.
- Post signs directing contractors and suppliers to designated locations.

- Where necessary, provide stable ingress and egress (see **Temporary Construction Ingress/Egress Pad** on page 17) or alternative approach pad for concrete washout systems.

Maintenance

- Inspect daily and after each storm event.
- Inspect the integrity of the overall structure including, where applicable, the containment system.
- Inspect the system for leaks, spills, and tracking of soil by equipment.
- Inspect the polyethylene lining for failure, including tears and punctures.
- Once concrete wastes harden, remove and dispose of the material.
- Excess concrete should be removed when the washout system reaches 50 percent of the design capacity. Use of the system should be discontinued until appropriate measures can be initiated to clean the structure. Prefabricated systems should also utilize this criterion, unless the manufacturer has alternate specifications.
- Upon removal of the solids, inspect the structure. Repair the structure as needed or construct a new system.
- Dispose of all concrete in a legal manner. Reuse the material on site, recycle, or haul the material to an approved construction/demolition landfill site. Recycling of material is encouraged. The waste material can be used for multiple applications including but not limited to roadbeds and building. The availability for recycling should be checked locally.
- The plastic liner should be replaced after every cleaning; the removal of material will usually damage the lining.
- The concrete washout system should be repaired or enlarged as necessary to maintain capacity for concrete waste.
- Concrete washout systems are designed to promote evaporation. However, if the liquids do not evaporate and the system is near capacity it may be necessary to vacuum or remove the liquids and dispose of them in an acceptable method. Disposal may be allowed at the local sanitary sewer authority provided their National Pollutant Discharge Elimination System permits allow for acceptance of this material. Another option would be to utilize a secondary containment system or basin for further dewatering.
- Prefabricated units are often pumped and the company supplying the unit provides this service.
- Inspect construction activities on a regular basis to ensure suppliers, contractors, and others are utilizing designated washout areas. If concrete waste is being disposed of improperly, identify the violators and take appropriate action.
- When concrete washout systems are no longer required, the concrete washout systems shall be closed. Dispose of all hardened concrete and other materials used to construct the system.
- Holes, depressions and other land disturbances associated with the system should be backfilled, graded, and stabilized.

Concrete Washout (Below Grade System) Worksheet

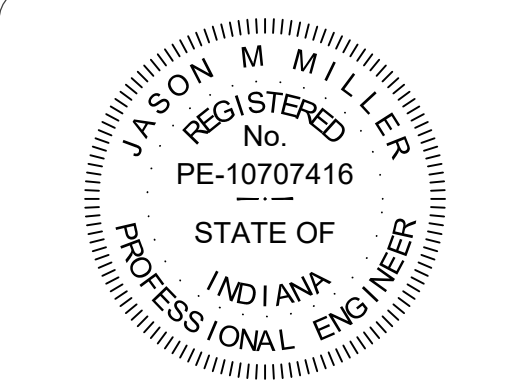


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DESIGNED: KAG
DRAWN BY: APB
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DATE: 2024-01-26

REVISIONS		
NO.	DATE	BY

STORM WATER
POLLUTION
PREVENTION PLAN
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ATWELL SUITES
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HORIZONTAL SCALE

VERTICAL SCALE

SHEET

C403

Straw Bale Drop Inlet Protection

(Practice as shown in Indiana Storm Water Quality Manual)

Straw bale drop inlet protection is a temporary sediment control measure consisting of straw bales placed around a storm drain drop inlet.

Purpose

To capture sediment at the inlet to a storm drain, allowing full use of the drain system during the construction period.

Note: This measure is not recommended for paved surfaces due to inability to entrench the bales and lack of an anchoring system.

Specifications

Contributing Drainage Area

One acre maximum.

Effective Life

Less than three months.

Capacity

Runoff from a two-year frequency, 24-hour storm event entering a storm drain without bypass flow.

Barrier Height

Fourteen inches above top elevation of the storm drain inlet.

Materials

- Straw or hay bales approximately 14 inches by 18 inches by 36 inches.
- Thirty-six inch long (minimum) steel rebar or 2 x 2 inch hardwood stakes.

Installation

(see Exhibits 1 and 2)

- Excavate a trench at least four inches deep and a bale's width around the inlet.
- Place bales lengthwise in the trench so the bindings are oriented around the sides, rather than top and bottom, to minimize deterioration of the bindings.
- Allow bales to overlap at the corners, and abut them tightly against each other (see Exhibit 1).
- Anchor the bales in place by driving two 36-inch long steel rebar or 2 x 2 inch hardwood stakes through each bale until nearly flush with the top. Drive the first stake at an angle towards the previously laid bale to force the bales together (see Exhibits 1 and 2).
- Chink (tightly wedge) straw into any gaps between bales to prevent sediment-laden water from flowing between the bales and directly into the inlet.
- Backfill excavated soil material, four inches high, against the outside perimeter of the straw bale barrier and compact in place.

Note: In situations where storm water may bypass the structure, either:

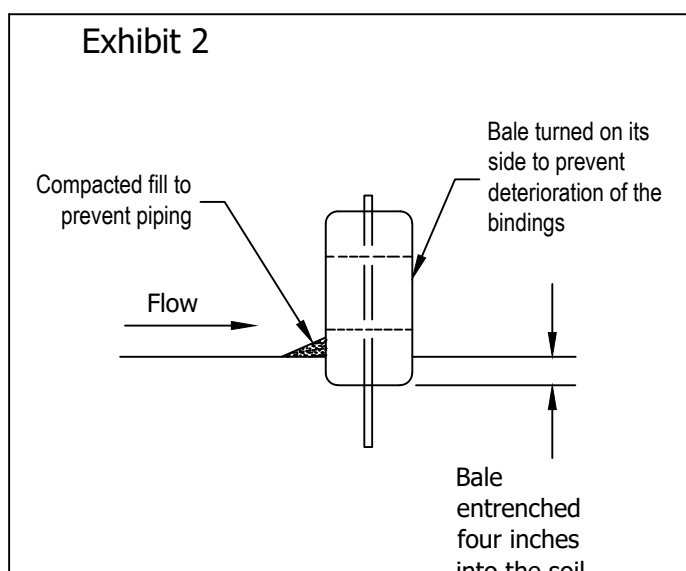
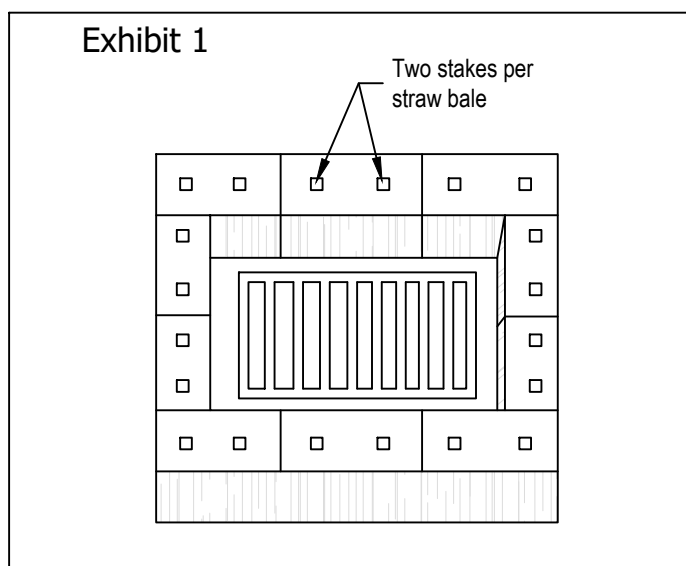
- Set the top of the straw/hay bales at least six inches lower than the ground elevation on the down-slope side of the storm drain inlet.
- Build a temporary dike, compacted to six inches higher than the straw/hay bales, on the down-slope side of the storm drain inlet.

AND/OR

- Use in conjunction with excavated drop inlet protection (see Excavated Drop Inlet Protection on page 145).

Maintenance

- Inspect daily.
- Remove sediment and debris from the pool area to ensure adequate storm water runoff storage from the next rain, taking care to not damage or undercut the bales.
- When the contributing drainage area has been stabilized, remove and properly dispose of accumulated sediment, all bales, and construction materials. Grade the disturbed area to the elevation of the top of the storm drain inlet and stabilize.



Excavated Drop Inlet Protection

(Practice as shown in Indiana Storm Water Quality Manual)

Purpose

To capture sediment at the approach to a storm drain inlet, allowing full use of the storm drain system during the construction period.

Specifications

Contributing Drainage Area

One acre maximum.

Capacity

Runoff from a two-year frequency, 24-hour storm event entering a storm drain without bypass flow.

Pool Area

- Less than one percent slope.
- Side slopes - 2:1 ratio or flatter.
- Excavated Depth - One to two feet measured from the top of the storm drain inlet.
- Storm Water/Sediment Storage Volume (excavated volume) - Minimum of 950 cubic feet.

Dewatering System

- Weep holes in the drop inlet structure.

- Geotextile fabric or hardware cloth wrapped around the sides of the drop inlet structure.

- Filter aggregate placed around the drop inlet structure.

Materials

- Geotextile fabric or hardware cloth.
- INDOT CA No. 5 aggregate (see Appendix D).

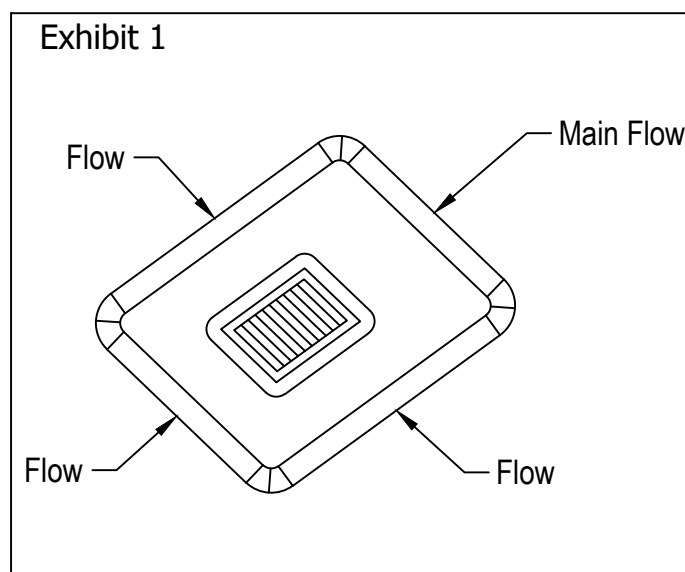
Note: **INDOT CA No. 8 aggregate is acceptable if No. 5 aggregate is not available. The use of No. 8 aggregate may result in more frequent overtopping of the structure and will increase the frequency of structure maintenance.**

Installation

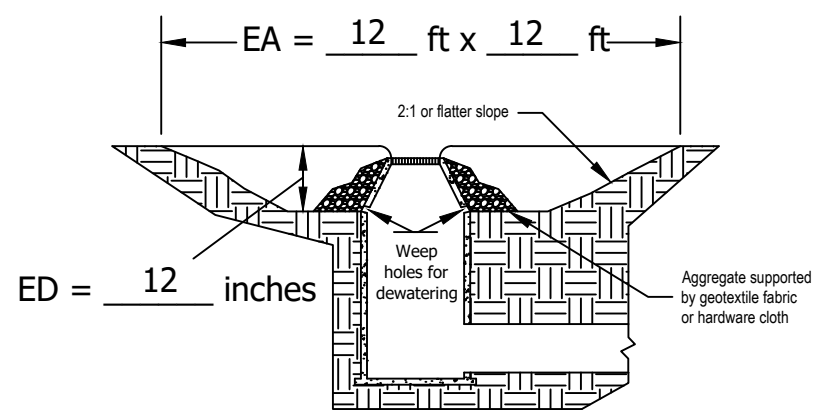
- Clear the area of all debris.
- Excavate the pool area with a one to two-foot depth and 2:1 side slopes or flatter. Orient the longest dimension toward the largest inflow (see Exhibit 1).
- Stockpile or spread excavated soil so it will not block storm water flow or wash back into the excavation. If necessary, spoil may be placed to form a dike on the down-slope side of the excavation to prevent by-pass flow. The dike should be at least six inches higher than the top elevation of the storm drain inlet grate.
- Install weep holes in the drop inlet structure so the pool drains slowly.
- Cover the weep holes with geotextile fabric or hardware cloth and at least 12 inches of aggregate (INDOT CA No. 5) to retain the sediment (see Excavated Drop Inlet Protection Worksheet). Cover the top of the structure with geotextile fabric.

Maintenance

- Inspect daily.
- Remove sediment when pool area is approximately one-half full of sediment.
- Remove and replace aggregate if sediment hinders drainage.
- Once contributing drainage area has been permanently stabilized, remove sediment, seal weep holes, fill basin with soil, compact and grade to finished elevation, and stabilize.



Excavated Drop Inlet Protection Worksheet



EA = Excavated Area (as required)
ED = Excavated Depth

Insert (Basket) Curb Inlet Protection

(Practice as shown in Indiana Storm Water Quality Manual)

Purpose

To minimize sediment from entering the storm sewer system while allowing runoff to enter the storm sewer system in the event of excessive storm events. This measure traps sediment associated with small storm events below the grade of the paved area. This measure does not place an obstruction in the street to trap sediment and is especially conducive to stages of construction when the public has access to the project site.

Note: **This measure should be used in conjunction with other sediment control measures.**

Specifications

Contributing Drainage Area:

- One-quarter acre maximum.

Capacity

- Runoff from a two-year frequency, 24-hour storm event entering a storm drain without bypass flow.

Location

- At curb inlets on paved roads and parking lots.
- Down grade from construction activities (e.g., individual home sites).

Materials

- Metal frame or basket with a top width and length such that the frame fits into the inlet. (The frame is supported by the structural integrity of the storm sewer.)
- The metal frame or geotextile should be designed with a bypass to allow storm water to flow into the storm sewer system during excessive storm events.
- The system should be designed for ease of maintenance.
- Geotextile fabric.

Table 1. Geotextile Fabric Specifications

Physical Property	Woven	Non-Woven
Filtering Efficiency	85%	85%
UV Resistance (Inhibitors and stabilizers to ensure six month minimum life at temperatures of 0° F to 120° F)	70%	85%
Tensile Strength at 20% Elongation:		
Standard Strength	30 lbs./linear inch	50 lbs./linear inch
Extra Strength	50 lbs./linear inch	70 lbs./linear inch
Slurry Flow Rate	0.3 gal./min./sq. ft.	4.5 gal./min./sq. ft.
Water Flow Rate	15 gal./min./sq. ft.	220 gal./min./sq. ft.

Installation

- Remove the storm sewer grate and place the frame into the grate opening.
- Place geotextile fabric into the frame and secure according to the manufacturer's recommendations.
- Replace the storm sewer grate.

Maintenance

- Inspect daily.
- Remove accumulated sediment and debris after each storm event. Deposit sediment in an area where it will not re-enter the paved area or storm drains.
- Replace or clean geotextile fabric as needed.
- When the contributing drainage area has been stabilized, remove inlet protection.

Gravel Donut Drop Inlet Protection

(Practice as shown in Indiana Storm Water Quality Manual)

Purpose

To trap sediment at the approach to a storm drain inlet, allowing full use of the storm drain system during the construction period.

Specifications

Contributing Drainage Area

- One acre maximum.

Capacity

- Runoff from a two-year frequency, 24-hour storm event entering a storm drain without bypass flow.

Aggregate Donut (see Exhibits 1 and 2)

- Side Slopes

2:1 ratio or flatter on outside of aggregate donut.

3:1 ratio or flatter on inside of aggregate donut.

- Height - 12 to 24 inches above the top of the storm drain inlet.

Materials

- INDOT uniform B riprap. (see Appendix D).
- INDOT CA No. 5 aggregate. (see Appendix D).

Note: INDOT CA No. 8 aggregate is acceptable if No. 5 aggregate is not available. The use of No. 8 aggregate may result in more frequent overtopping of the structure and will increase the frequency of structure maintenance.

Installation

- Around the outer perimeter of the excavated area, lay a ring of riprap (INDOT uniform B riprap) to a height of 12 to 24 inches above the top of the storm drain inlet. Construct the aggregate donut such that it has a 2:1 or flatter outside slope and a 3:1 or flatter inside slope.

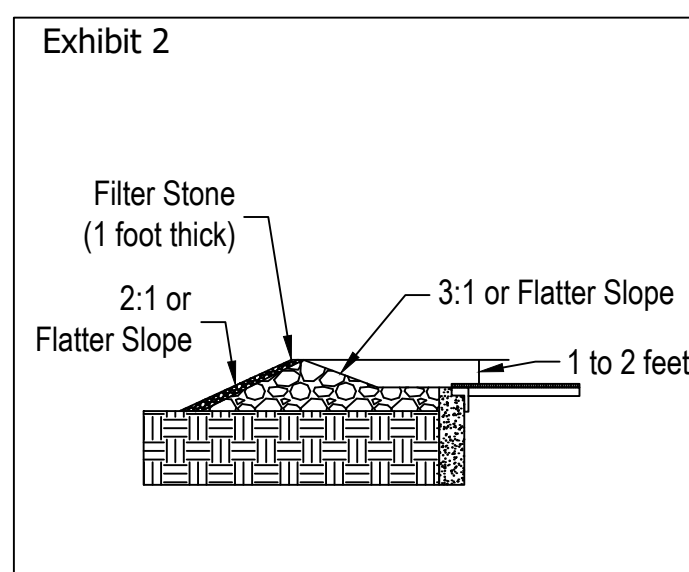
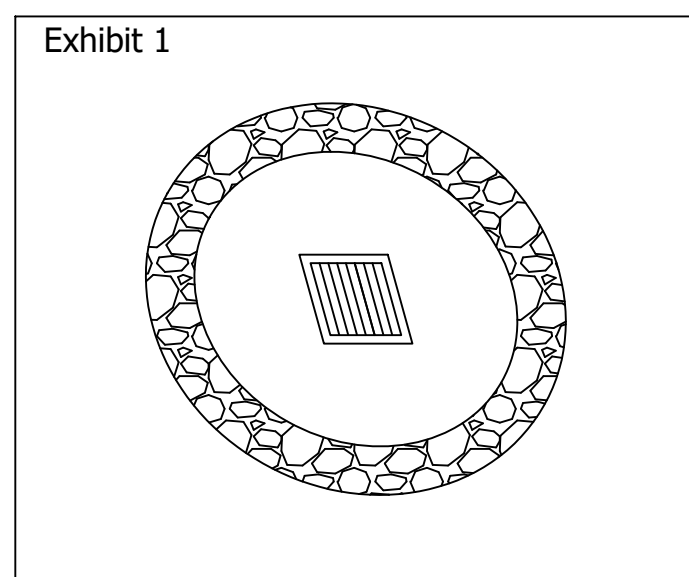
- Cover the outside face of the aggregate donut with at least a 12-inch thick layer of INDOT CA No. 5 aggregate (for filtration). Maintain a 2:1 or flatter slope.

Note: **In situations where storm water may bypass the structure, either:**

- Set the top of the aggregate donut at least six inches lower than the ground elevation on the down-slope side of the storm drain inlet.
- Build a temporary dike, compacted to six inches higher than the aggregate donut, on the down-slope side of the storm drain inlet, AND/OR
- Use in conjunction with excavated drop inlet protection (see **Excavated Drop Inlet Protection** on page 145).

Maintenance

- Inspect daily.
- Make needed repairs immediately.
- When the contributing drainage area has been stabilized, remove and properly dispose of all sediment and construction material and restabilize.



Permanent Seeding

(Practice as shown in Indiana Storm Water Quality Manual)

Purpose

- To provide permanent vegetative cover and improve visual aesthetics of a project site.
- To reduce erosion and sedimentation damage by stabilizing disturbed areas.
- To reduce problems associated with mud or dust from unvegetated soil surfaces.
- To reduce sediment-laden storm water runoff from being transported to downstream areas.

Specifications

Seedbed Preparation

- Grade and apply soil amendments.

Seeding Frequency

- Seed final graded areas daily while soil is still loose and moist.

Density of Vegetative Cover

- Ninety percent or greater over the soil surface.

Materials

- Soil Amendments - Select materials and rates as determined by a soil test (contact your county soil and water conservation district or cooperative extension office for assistance and soil information, including available soil testing services) or 400 to 600 pounds of 12-12-12 analysis fertilizer, or equivalent. Consider the use of reduced phosphorus application where soil tests indicate adequate phosphorous levels in the soil profile.
- Seed - Select an appropriate plant species seed or seed mixture on the basis of soil type, soil pH, region of the state, time of year, and intended land use of the area to be seeded (see Table 1).
- Mulch -
 - Straw, hay, wood fiber, etc. (to protect seedbed, retain moisture, and encourage plant growth).
 - Anchored to prevent removal by wind or water or covered with premanufactured erosion control blankets.

Application

Site Preparation

- Grade the site to achieve positive drainage.

- Add topsoil (see Topsoil Salvage and Utilization on page 25) or compost mulch (see Compost Mulching on page 59) to achieve needed depth for establishment of vegetation. (Compost material may be added to improve soil moisture holding capacity, soil friability, and nutrient availability.)

Seedbed Preparation

- Test soil to determine pH and nutrient levels.

- Apply soil amendments as recommended by the soil test and work into the upper two to four inches of soil. If testing is not done, apply 400 to 600 pounds per acre of 12-12-12 analysis fertilizer, or equivalent.
- Till the soil to obtain a uniform seedbed. Use a disk or rake, operated across the slope, to work the soil amendments into the upper two to four inches of the soil.

Seeding

Optimum seeding dates are March 1 to May 10 and August 10 to September 30. Permanent seeding done between May 10 and August 10 may need to be irrigated. Seeding outside or beyond optimum seeding dates is still possible with the understanding that reseeding or overseeding may be required if adequate surface cover is not achieved. Reseeding or overseeding can be easily accomplished if the soil surface remains well protected with mulch.

- Select a seeding mixture and rate from Table 1. Select seed mixture based on site conditions, soil pH, intended land use, and expected level of maintenance.

- Apply seed uniformly with a drill or cultipacker seeder or by broadcasting. Plant or cover the seed to a depth of one-fourth to one-half inch. If drilling or broadcasting the seed, ensure good seed-to-soil contact by firming the seedbed with a roller or cultipacker after completing seeding operations. (If seeding is done with a hydroseeder, fertilizer and mulch can be applied with the seed in a slurry mixture.)

- Mulch all seeded areas (see **Mulching** on page 55 and **Compost Mulching** on page 59) and use appropriate methods to anchor the mulch in place. Consider using erosion control blankets on sloping areas and conveyance channels (see **Erosion Control Blanket** on page 63).

Maintenance

- Inspect within 24 hours of each rain event and at least once every seven calendar days until the vegetation is successfully established.
- Characteristics of a successful stand include vigorous dark green or bluish-green seedlings with a uniform vegetative cover density of 90 percent or more.
- Check for erosion or movement of mulch.
- Repair damaged, bare, gullied, or sparsely vegetated areas and then fertilize, reseed, and apply and anchor mulch.
- If plant cover is sparse or patchy, evaluate the plant materials chosen, soil fertility, moisture condition, and mulch application; repair affected areas either by overseeding or preparing a new seedbed and reseeding. Apply and anchor mulch on the newly seeded areas.
- If vegetation fails to grow, consider soil testing to determine soil pH or nutrient deficiency problems. (Contact your soil and water conservation district or cooperative extension office for assistance.)
- If additional fertilization is needed to get a satisfactory stand, do so according to soil test recommendations.
- Add fertilizer the following growing season. Fertilize according to soil test recommendations.
- Fertilize turf areas annually. Apply fertilizer in a split application. For cool-season grasses, apply one-half of the fertilizer in late spring and one-half in early fall. For warm-season grasses, apply one-third in early spring, one-third in late spring, and the remaining one-third in middle summer.

Table 1. Permanent Seeding Recommendations

This table provides several seed mixture options. Additional seed mixtures are available commercially. When selecting a mixture, consider intended land use and site conditions, including soil properties (e.g., soil pH and drainage), slope aspect, and the tolerance of each species to shade and drought.

Open Low-Maintenance Areas
(remaining idle more than six months)

Seed Mixtures	Rate per Acre Pure Live Seed	Optimum Soil pH
1. Perennial ryegrass - white clover ₁	70 lbs. 2 lbs.	5.6 to 7.0
2. Perennial ryegrass - tall fescue ₂	70 lbs. 50 lbs.	5.6 to 7.0
3. Tall fescue ₂ - white clover ₁	70 lbs. 2 lbs.	5.5 to 7.5

Sleep Banks and Cuts, Low-Maintenance Areas (not mowed)

Seed Mixtures	Rate per Acre Pure Live Seed	Optimum Soil pH
1. Smooth brome grass - red clover ₁	35 lbs. 20 lbs.	5.5 to 7.0
2. Tall fescue ₂ - white clover ₁	50 lbs. 2 lbs.	5.5 to 7.5
3. Tall fescue ₂ - red clover ₁	50 lbs. 20 lbs.	5.5 to 7.5
4. Orchard grass - red clover ₁ - white clover ₁	30 lbs. 20 lbs. 2 lbs.	5.6 to 7.0
5. Crownvetch ₃ - tall fescue ₂	12 lbs. 30 lbs.	5.6 to 7.0

Lawns and High-Maintenance Areas

Seed Mixtures	Rate per Acre Pure Live Seed	Optimum Soil pH
1. Bluegrass ₁	40 lbs.	5.5 to 7.0
2. Perennial ryegrass (turf type)	60 lbs. 90 lbs.	5.6 to 7.0
3. Tall fescue (turf type) - bluegrass	170 lbs. 30 lbs.	5.6 to 7.5

Channels and Areas of Concentrated Flow

Seed Mixtures	Rate per Acre Pure Live Seed	Optimum Soil pH
1. Perennial ryegrass - white ₁	150 lbs. 2 lbs.	5.5 to 7.0
2. Kentucky bluegrass - smooth brome grass ₁ - switchgrass ₁ - timothy ₁ - perennial ryegrass ₁ - white clover ₂	20 lbs. 10 lbs. 3 lbs. 4 lbs. 10 lbs. 2 lbs.	5.5 to 7.5
3. Tall fescue ₂ - white clover ₂	150 lbs. 2 lbs.	5.5 to 7.5
4. Tall fescue ₂ - perennial ryegrass ₁ - Kentucky bluegrass ₁	150 lbs. 20 lbs. 20 lbs.	5.5 to 7.5

1. For best results: (a) legume seed should be inoculated; (b) seeding mixtures containing legumes should preferably be spring-seeded, although the grass may be fall-seeded and the legume frost-seeded (see **Dormant Seeding and Frost Seeding** on page 41); and (c) if legumes are fall-seeded, do so in early fall.

2. Tall fescue provides little cover for, and may be toxic to some species of wildlife. The Indiana Department of Natural Resources recognizes the need for additional research on alternatives such as buffalograss, orchardgrass, smooth brome grass, and switchgrass. This research, in conjunction with demonstration areas, should focus on erosion control characteristics, wildlife toxicity, turf durability, and drought resistance.

Notes:

- An oat or wheat companion or nurse crop may be used with any of the above permanent seeding mixtures, at the following rates:

- spring oats - one-fourth to three-fourths bushel per acre
- wheat - no more than one-half bushel per acre

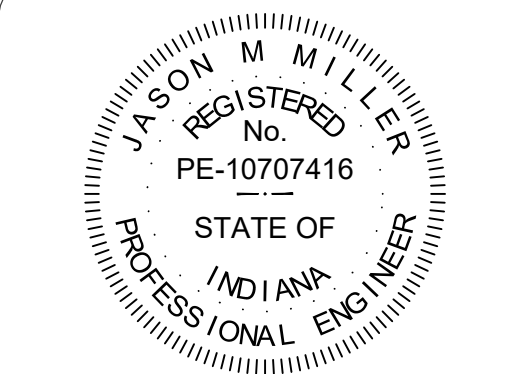
- A high potential for fertilizer, seed, and mulch to wash exists on steep banks, cuts, and in channels and areas of concentrated flow.

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Jason Miller

JOB NO: 21-0189
DESIGNED: KAG
DRAWN BY: APB
CHECKED BY: JMM
DATE: 2024-01-26

REVISIONS		
NO.	DATE	BY

STORM WATER
POLLUTION
PREVENTION PLAN
DETAILS

ATWELL SUITES
AN IHG HOTEL

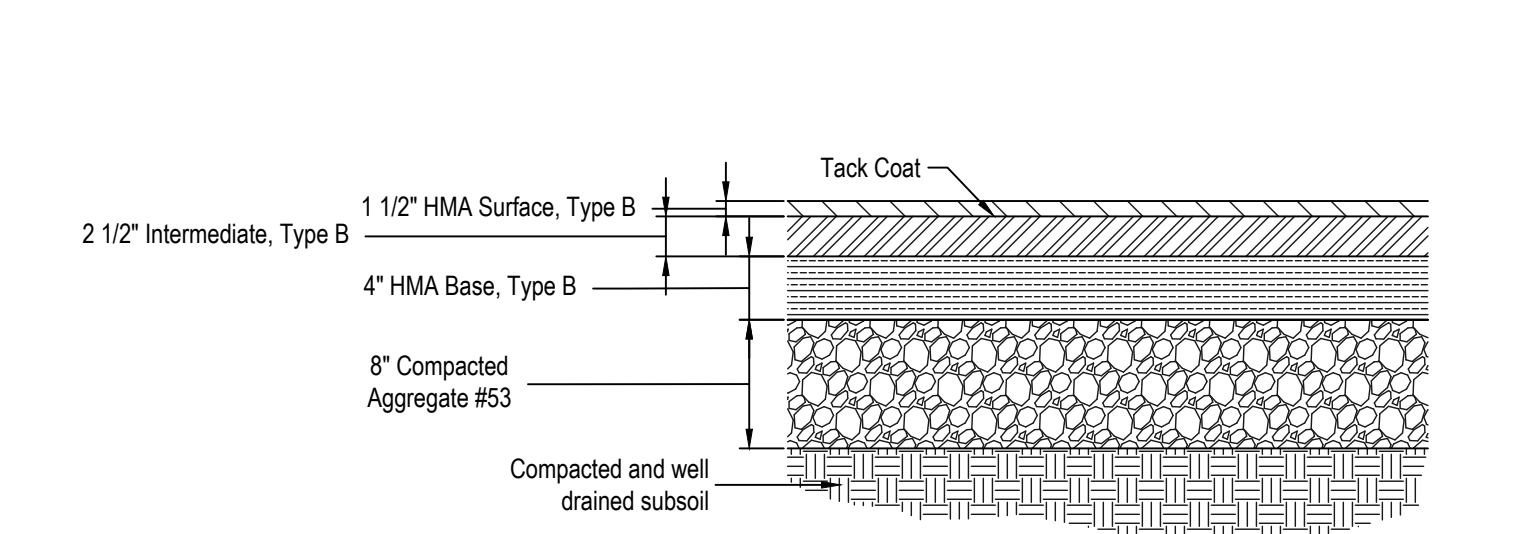
ERLEN DR & MINDEN
Dr FISHERS, IN

HORIZONTAL SCALE

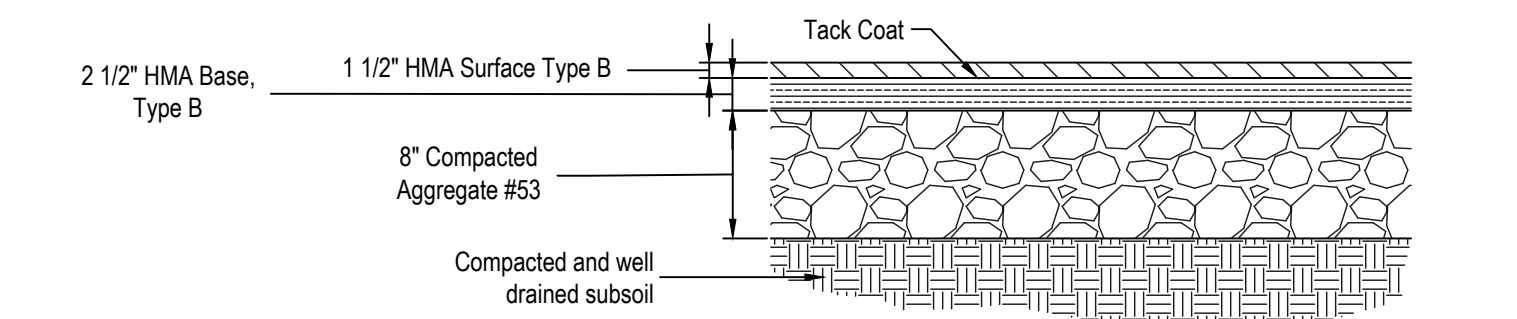
VERTICAL SCALE

SHEET

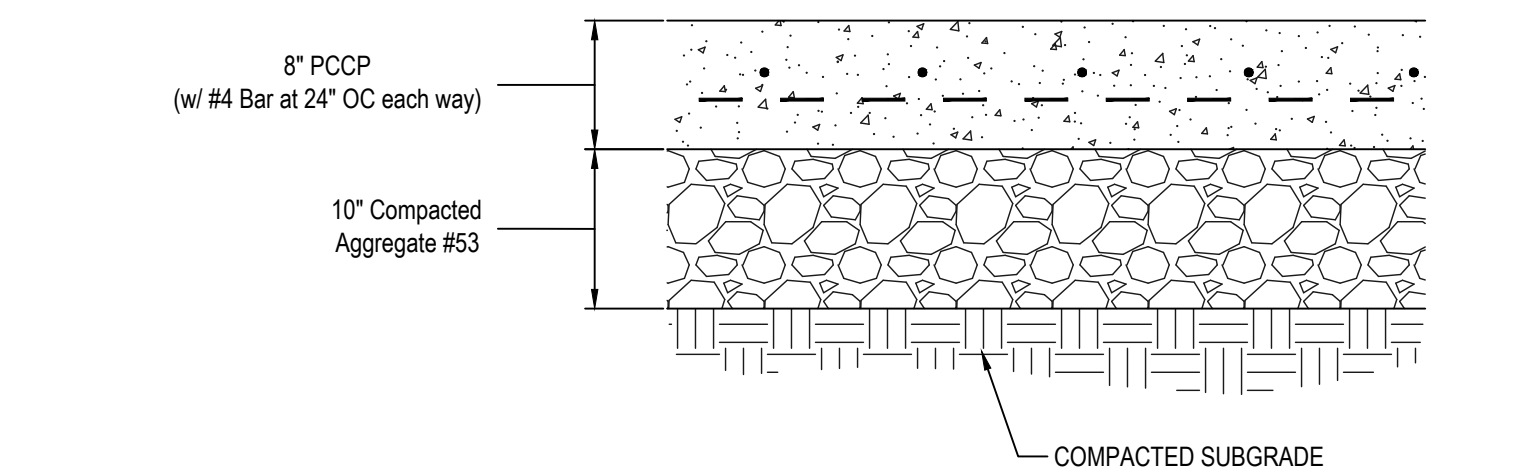
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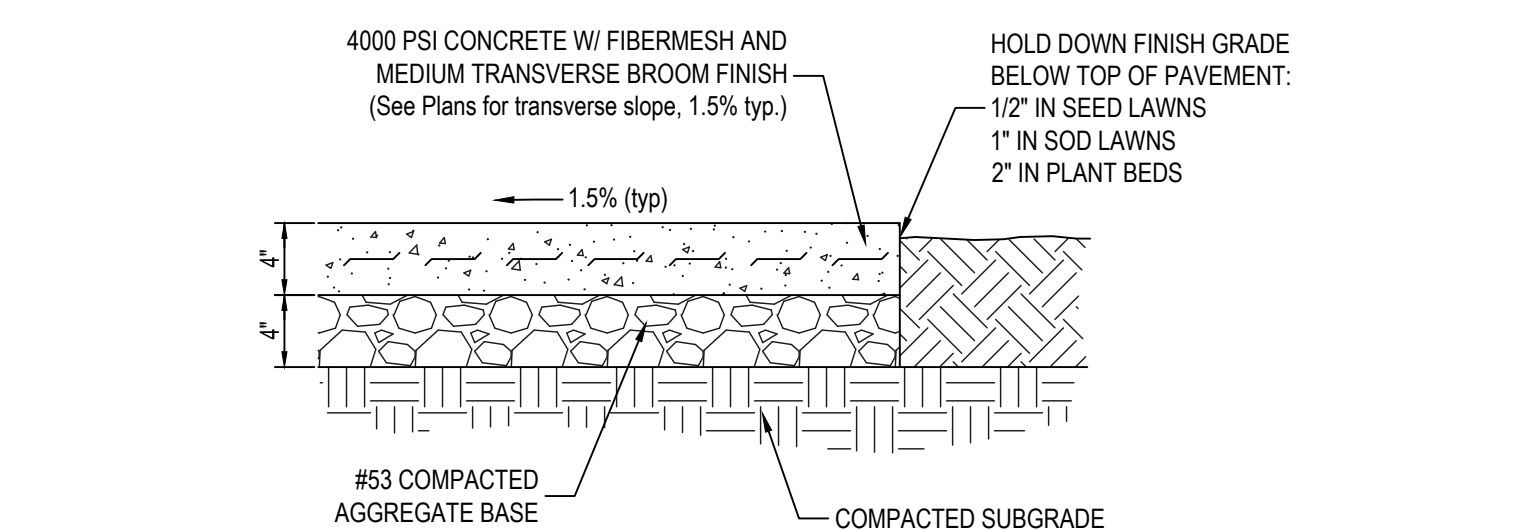
K₁ HEAVY DUTY PAVEMENT
NTS



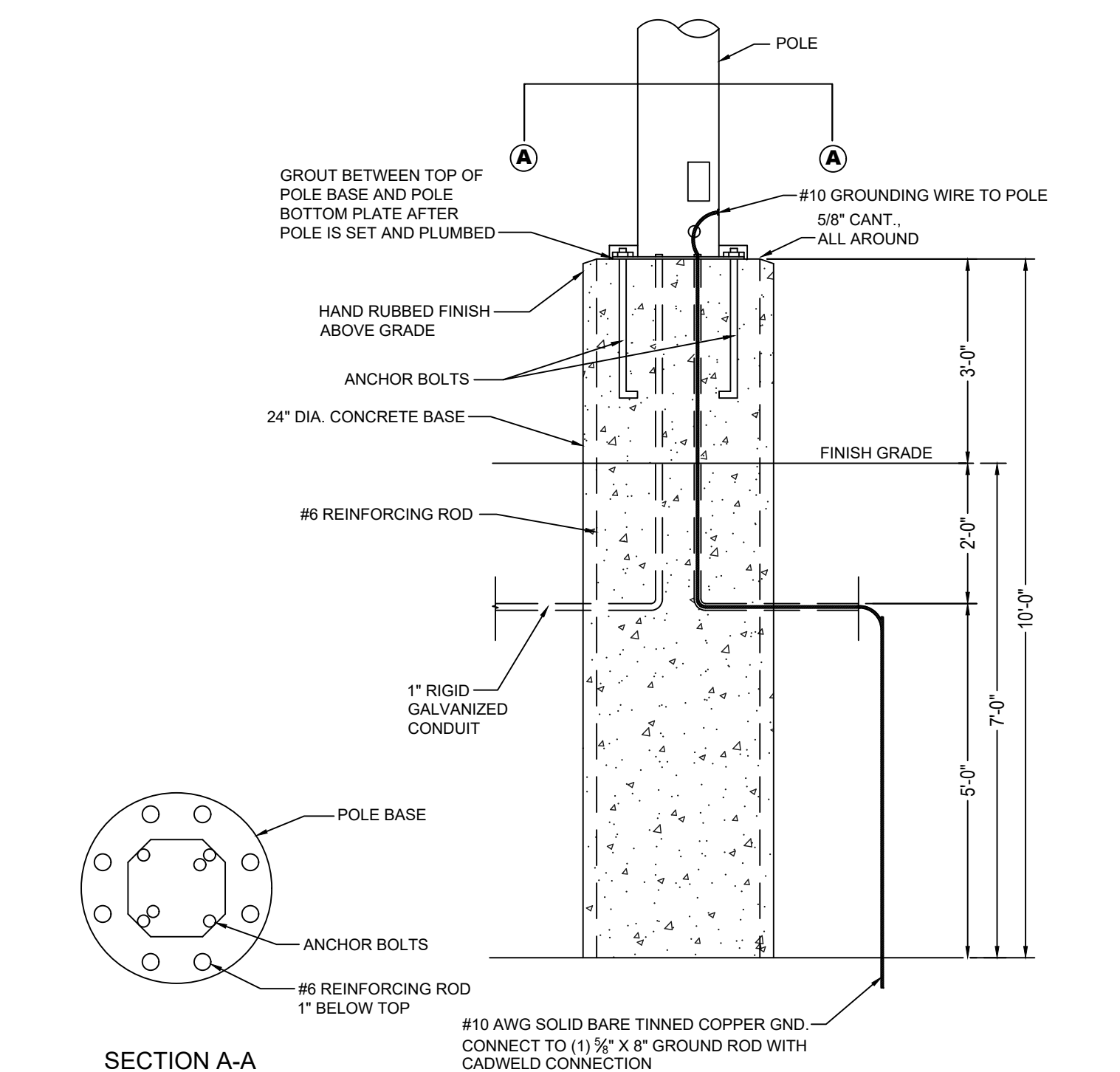
K₂ STANDARD DUTY PAVEMENT
NTS



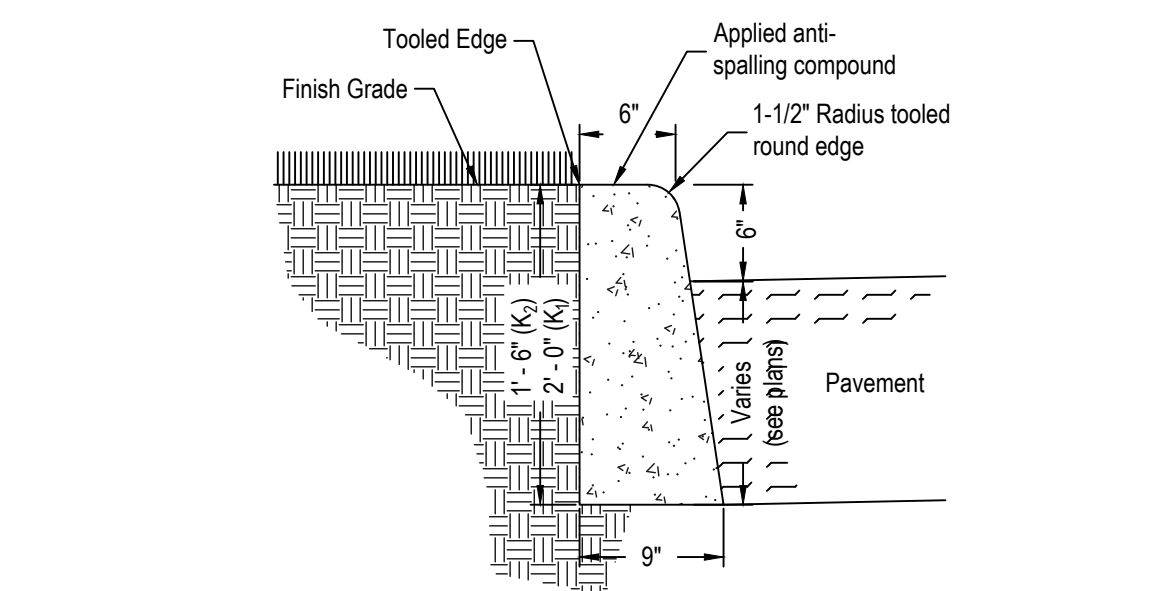
D CONC. PAVEMENT, 8 in.
NTS



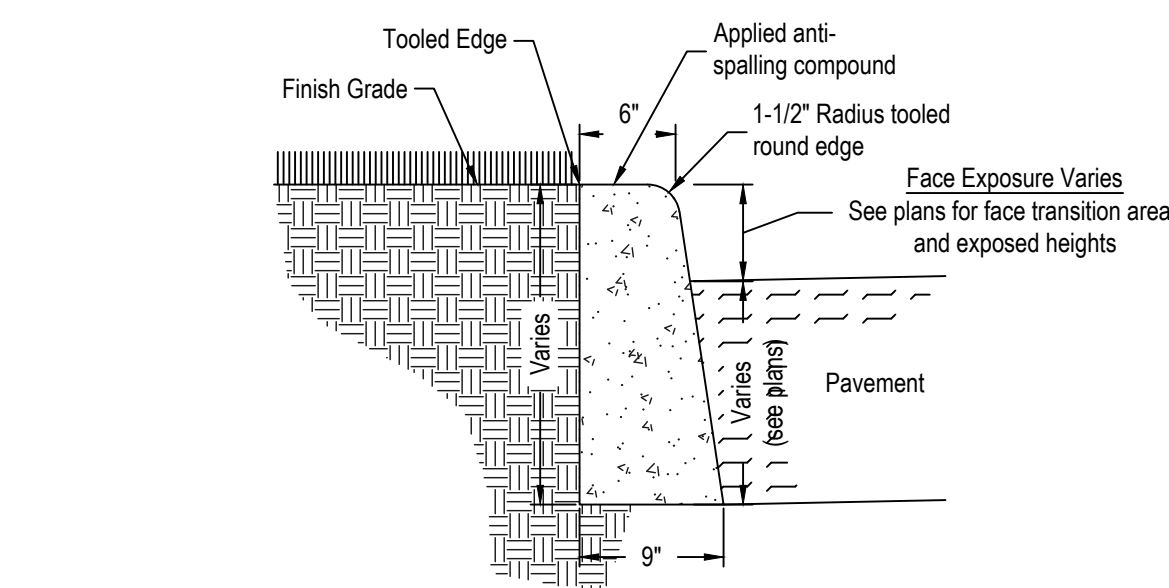
F CONC. SIDEWALK, 4 in.
NTS



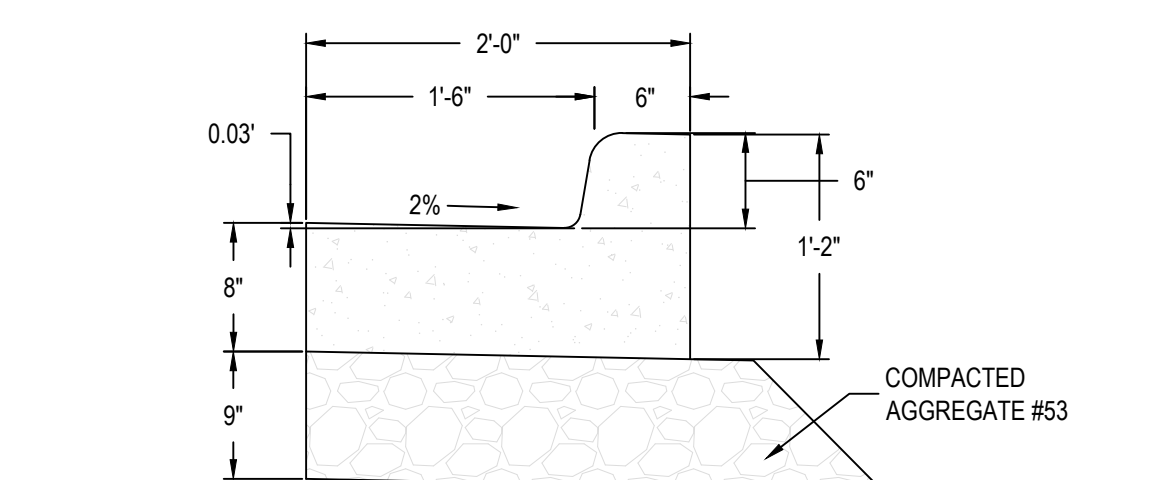
L LIGHT POLE BASE DETAIL
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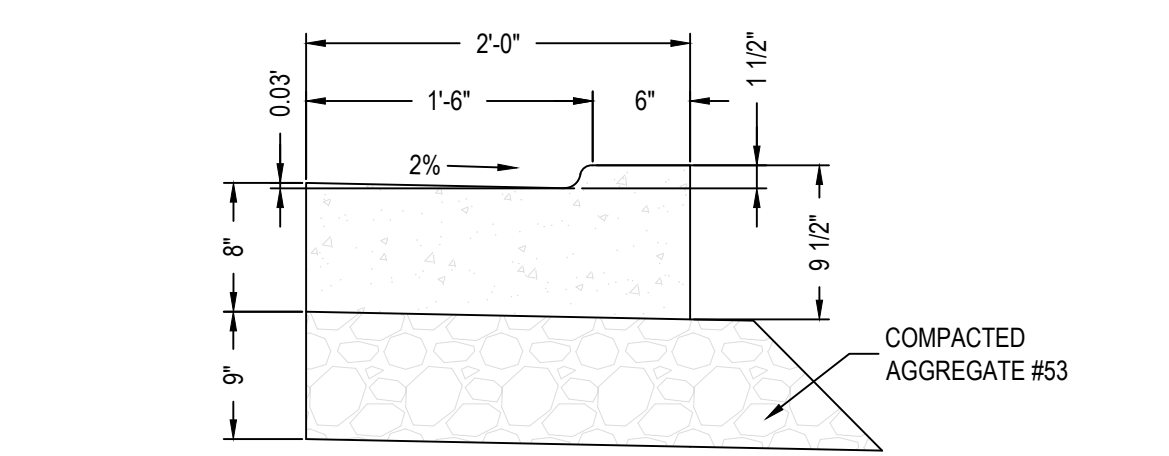
13 CONCRETE CURB (BARRIER)
NTS



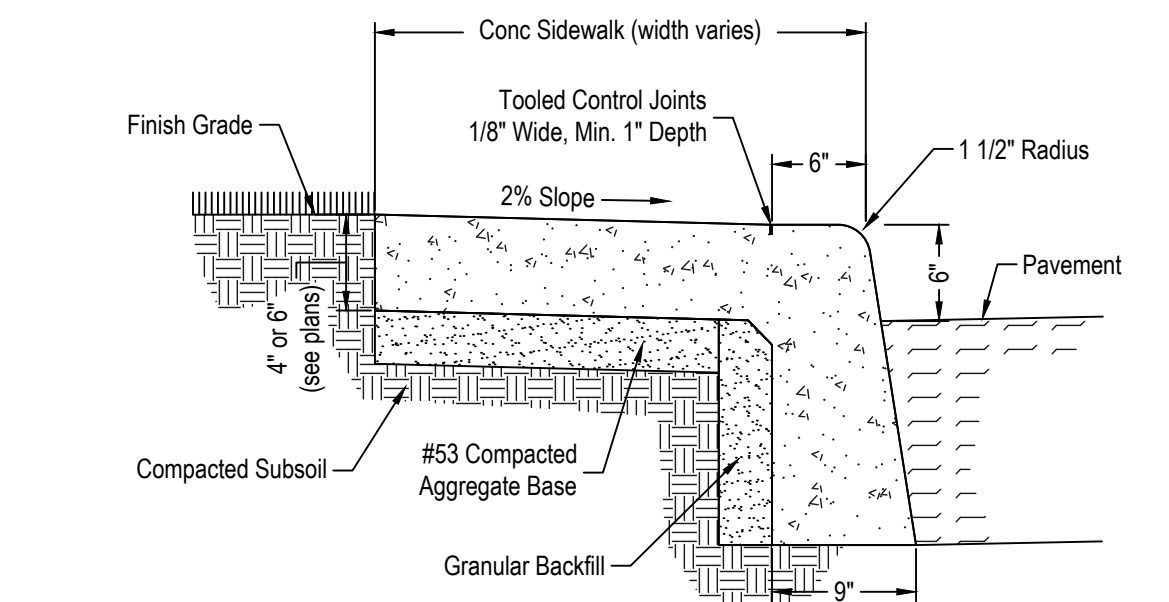
16 CONCRETE CURB (BARRIER)
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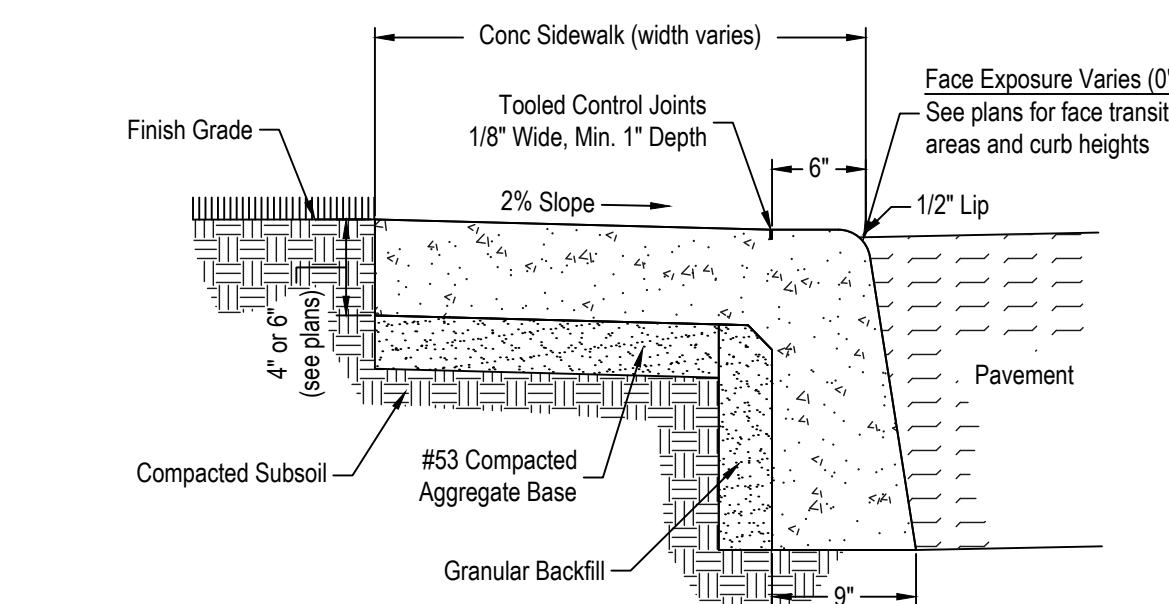
17 CURB & GUTTER, 6"
NTS



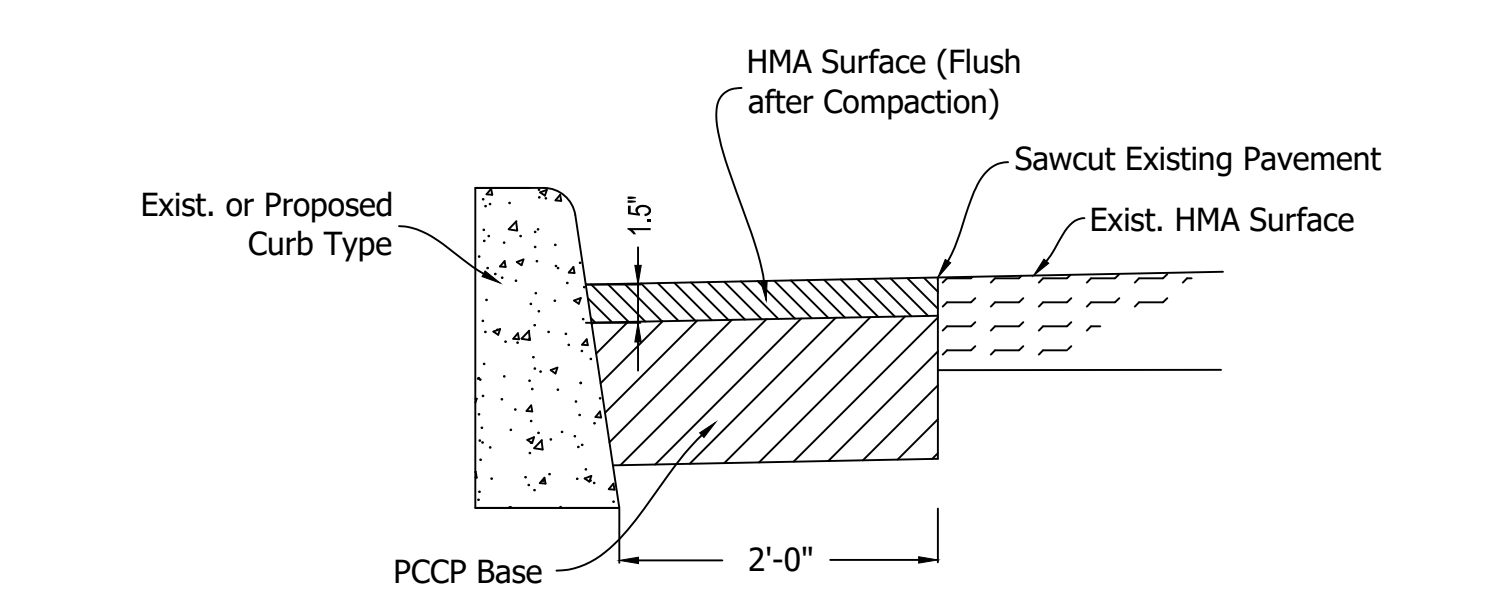
19 CURB & GUTTER, 1-1/2"
NTS



20 COMB. CONC. CURB & SIDEWALK
NTS



21 COMB. CONC. CURB & SIDEWALK
NTS



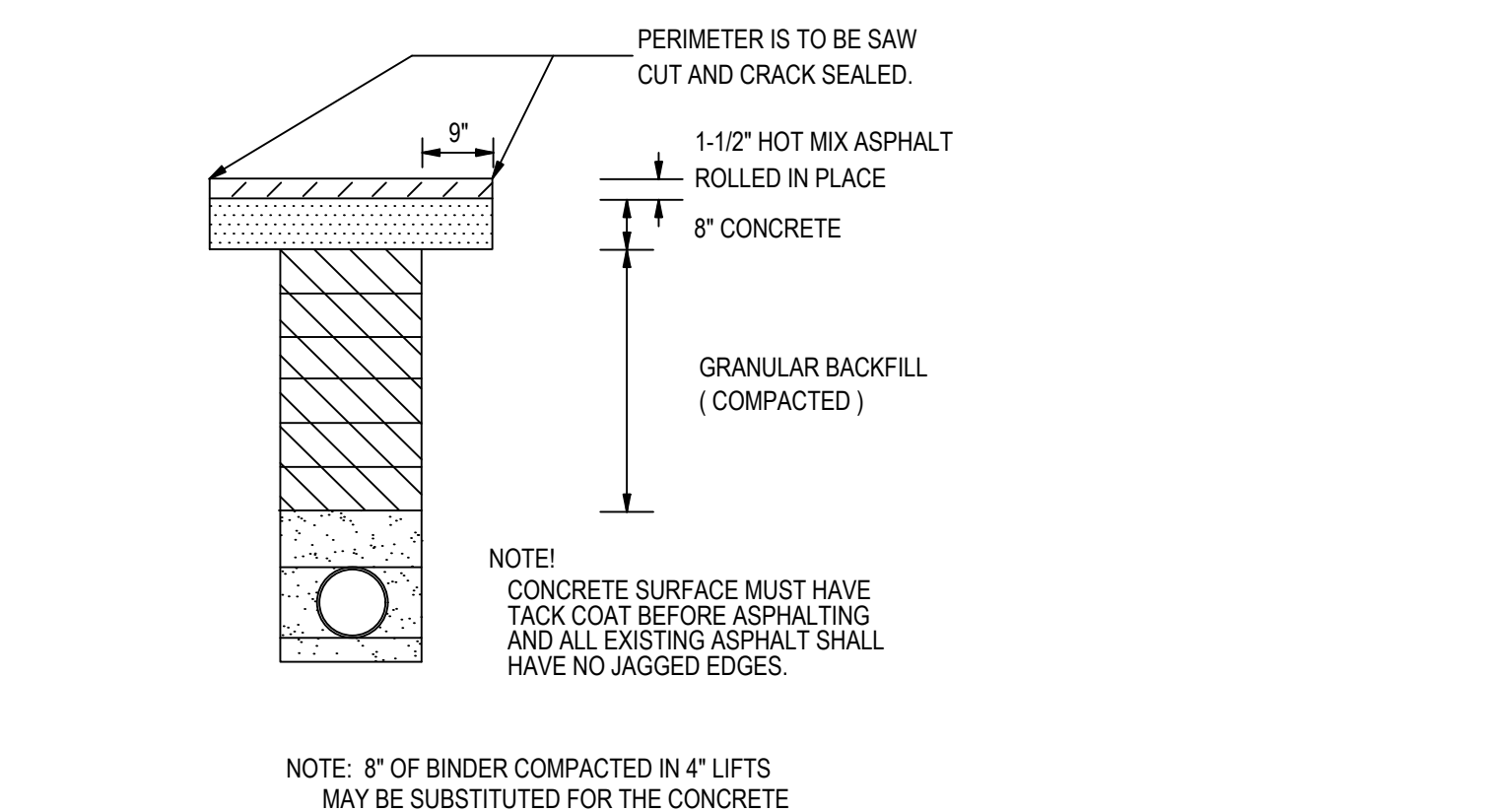
Use With:
Exist./Prop. Curb Types

PCCP Patching, Full Depth
165# /syd HMA Surface, Type B on
PCCP Base Patching, 8in., Finish Flush
w/exist. Pavement

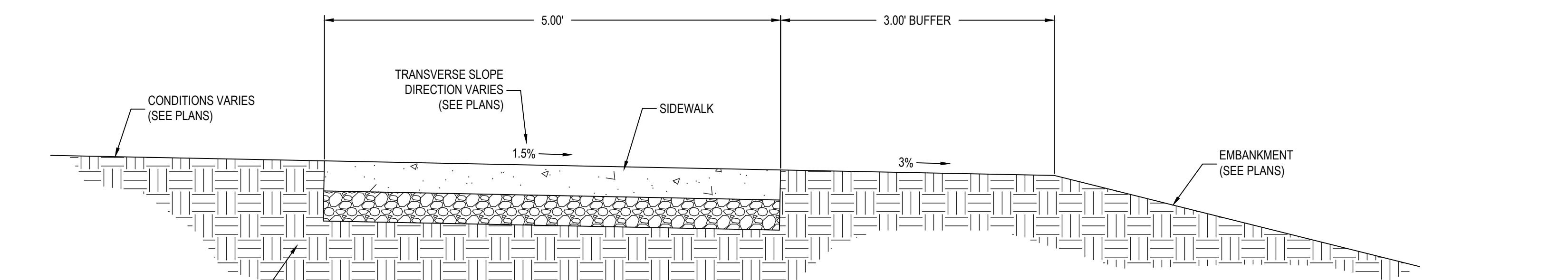
Note:
Patching type and width shall be a
minimum of 24in. (typical), or as
directed by engineer.

Note:
Use this detail in areas where
patching and curb is required.

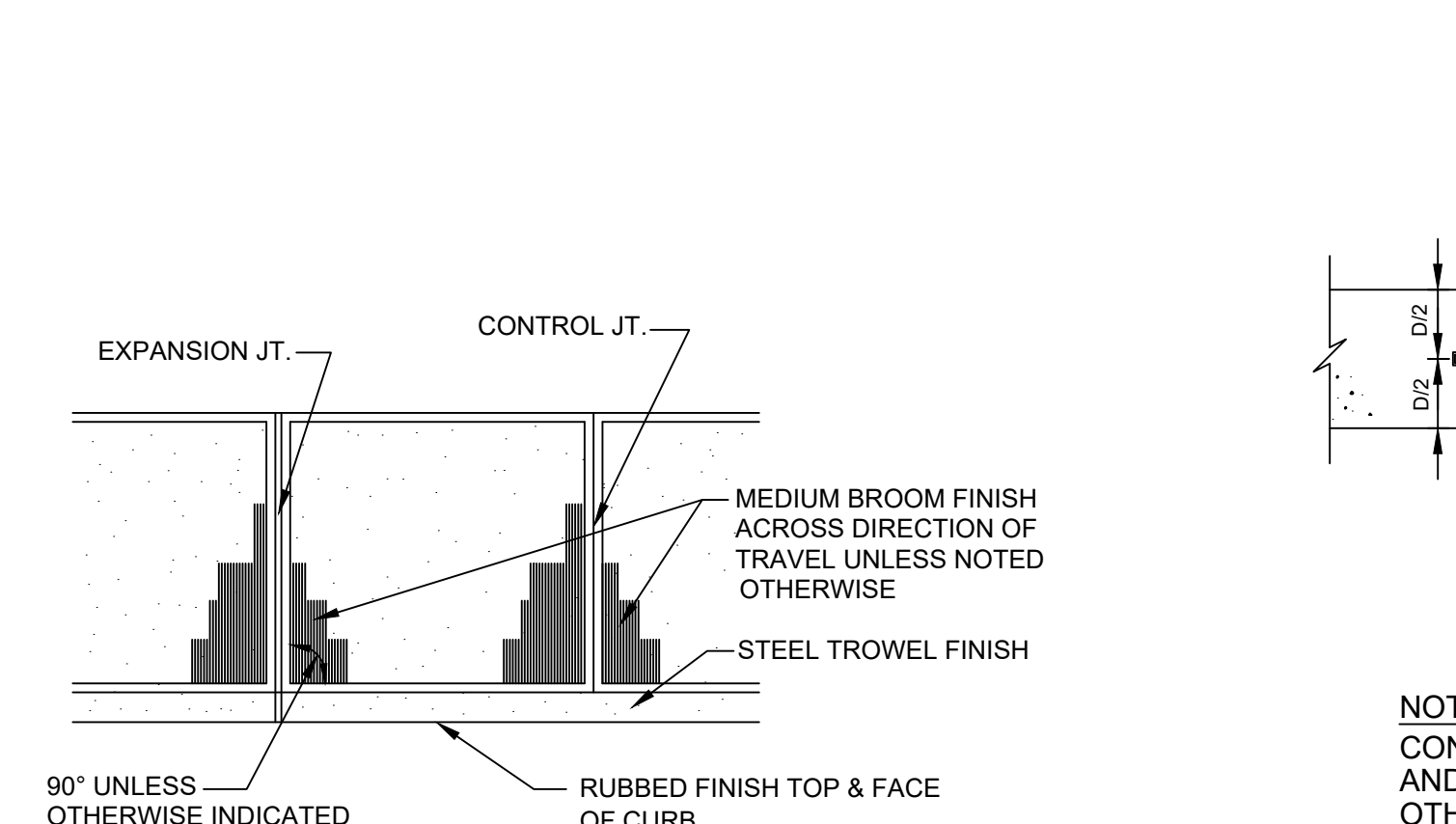
PCCP PATCHING, FULL DEPTH
NTS



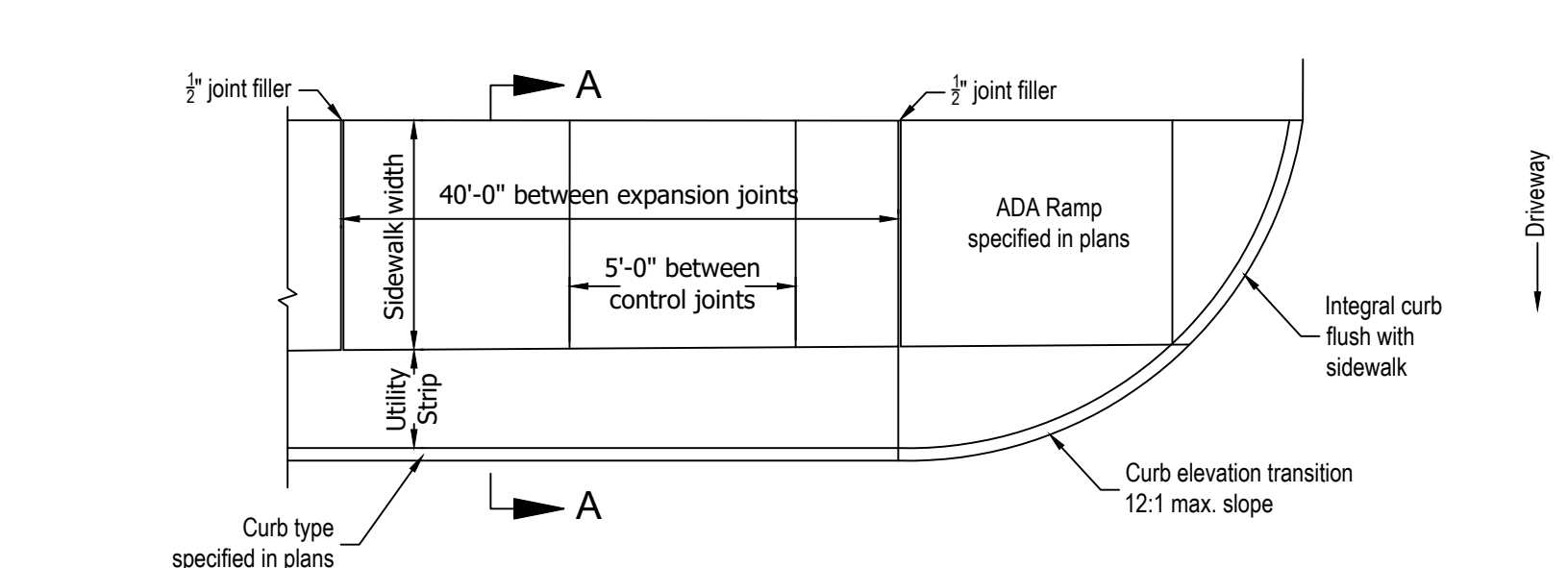
ASPHALT STREET RESTORATION
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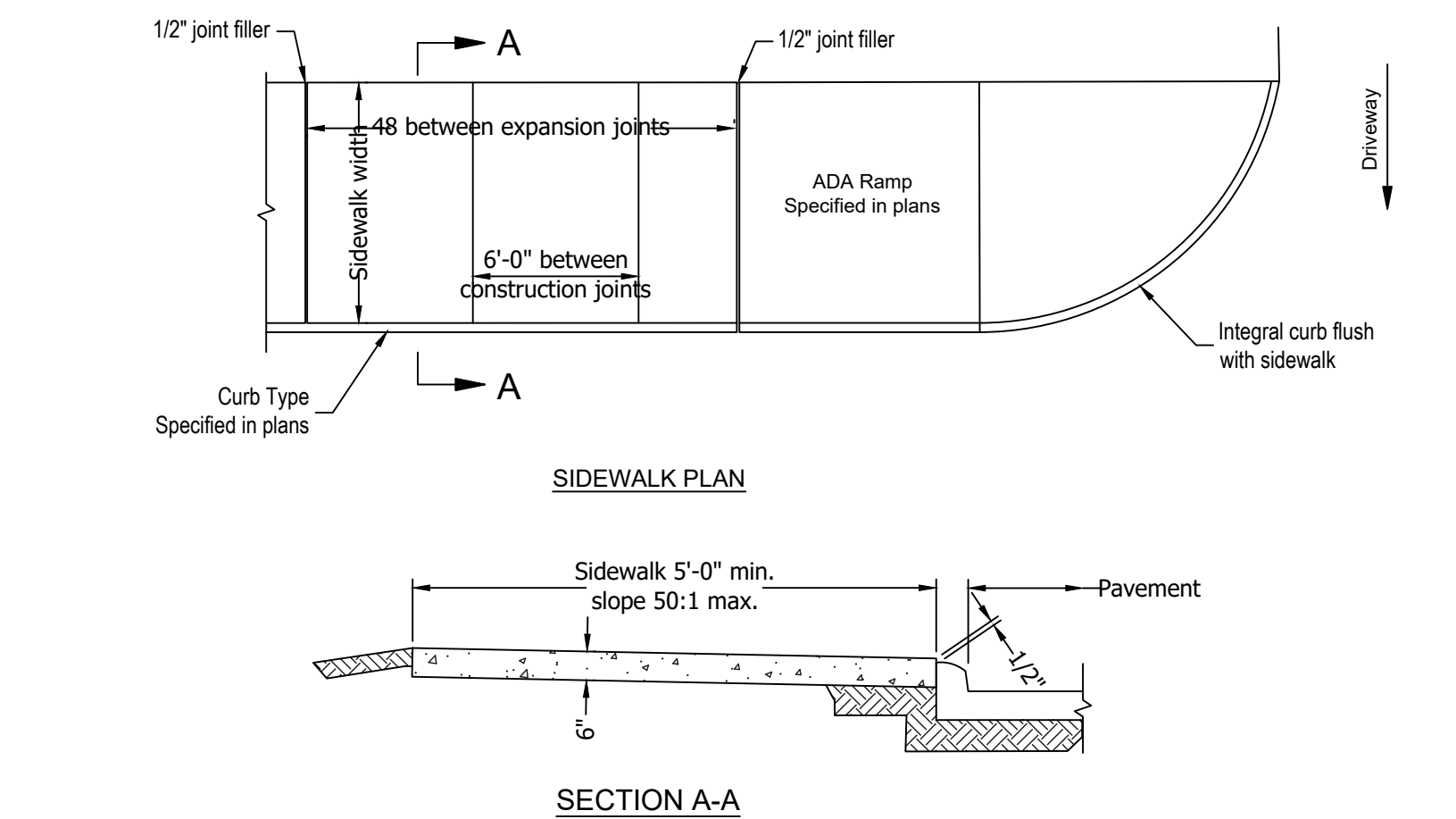
SIDEWALK ADJACENT TO EMBANKMENT (TYP SECTION)
NTS



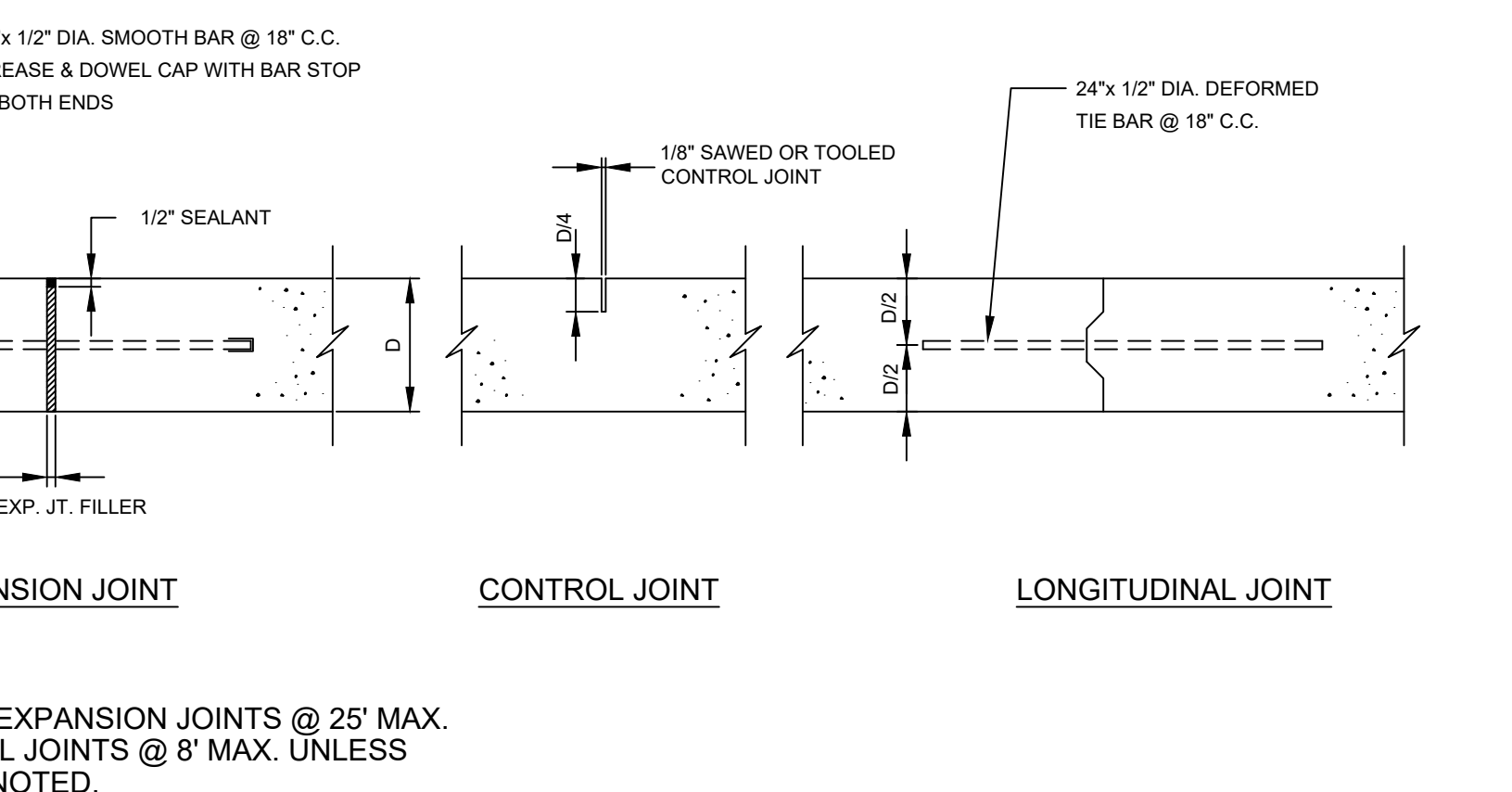
SIDEWALK FINISH
NTS



SIDEWALK WITH UTILITY STRIP
NTS



SIDEWALK ADJACENT TO CURB
NTS



CONCRETE JOINT DETAILS
NTS

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DESIGNED: KAG
DRAWN BY: APB
CHECKED BY: JMM
DATE: 2024-01-26

REVISIONS

NO.	DATE	BY

ATWELL SUITES
AN IHG HOTEL

ERLEN DR & MINDEN
Dr FISHERS, IN

HORIZONTAL SCALE

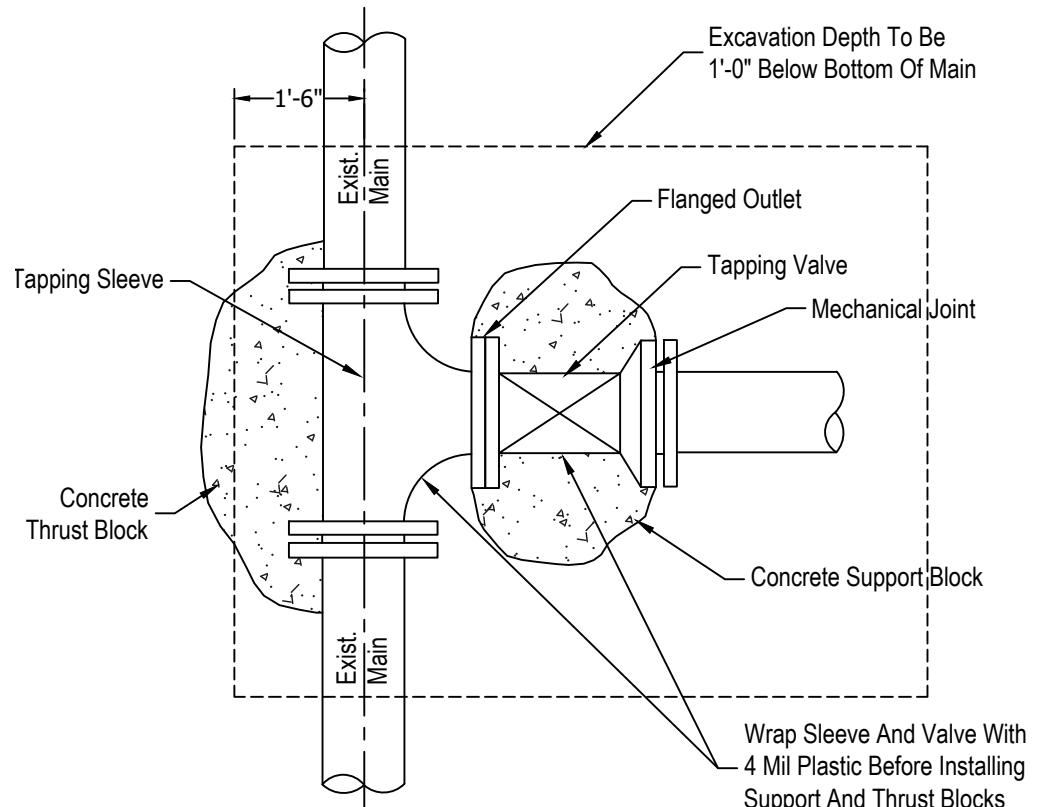
VERTICAL SCALE

SHEET

C500

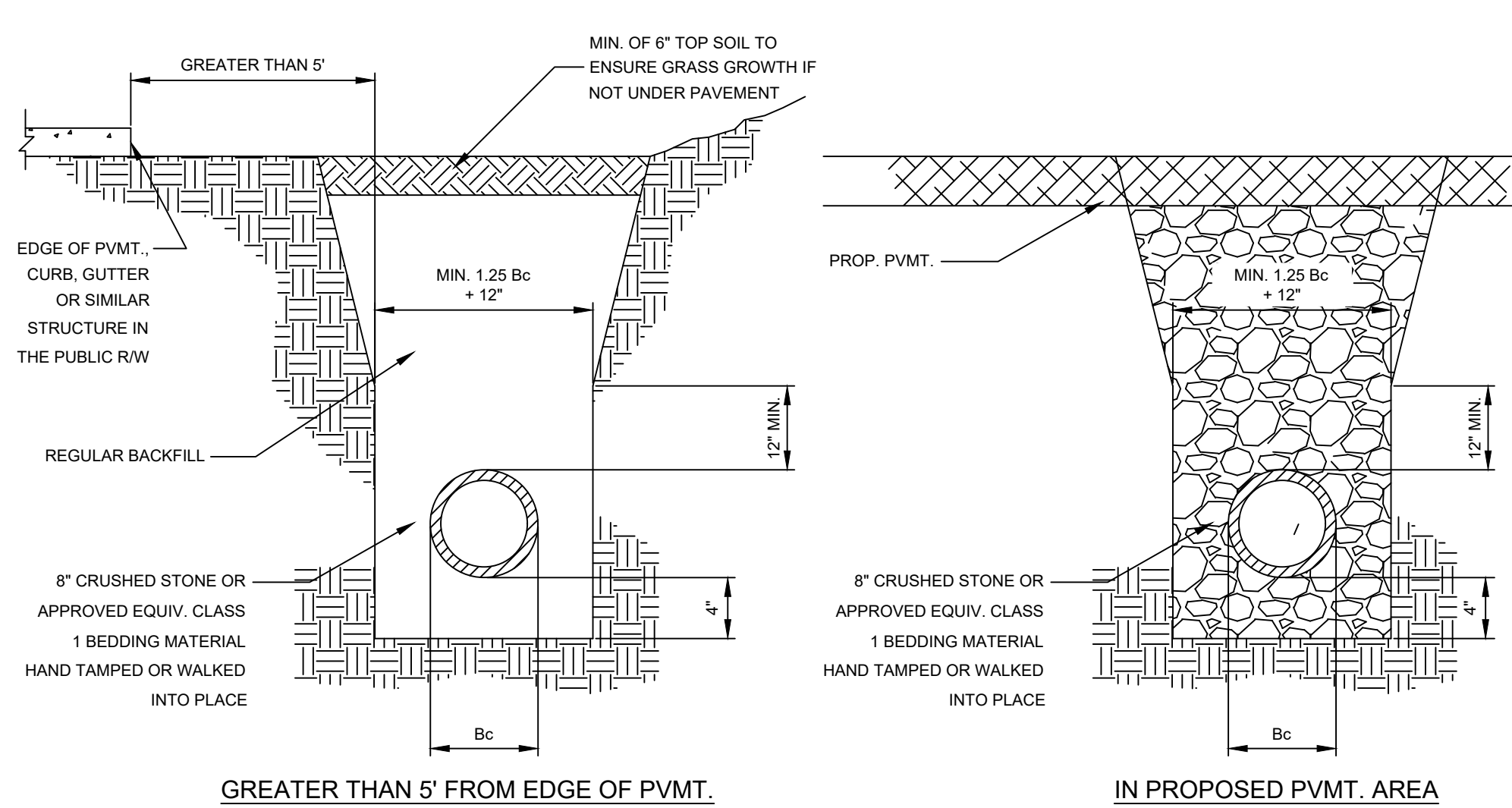
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Page 17 of 292



TAPPING SLEEVE & VALVE
NTS

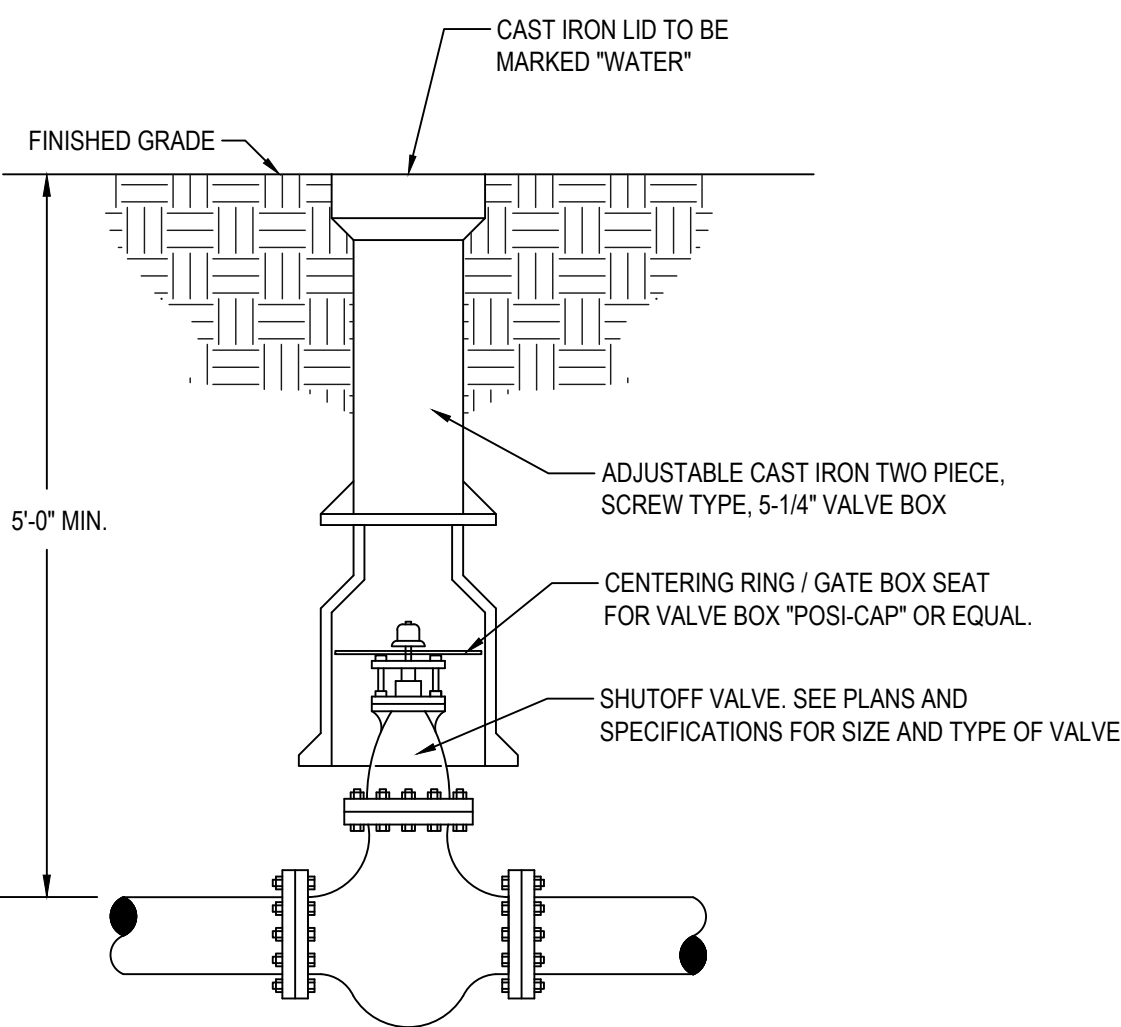
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C502



- NOTE:
- ALL INITIAL BACKFILL SHALL BE INSTALLED IN 6" TO 12" BALANCED LIFTS.
 - UNDER PVMT. AREAS, TRENCH TO BE BACKFILLED W/ COMPACTED GRANULAR BACKFILL TO THE BOTTOM OF PVMT BASE. ALL OTHER AREAS SHALL HAVE "B" BORROW BACKFILL TO 1'-0" ABOVE PIPE.
 - A MIN. 9" OF CLEARANCE SHALL BE PROVIDED ON EACH SIDE OF THE INSTALLED PIPE.

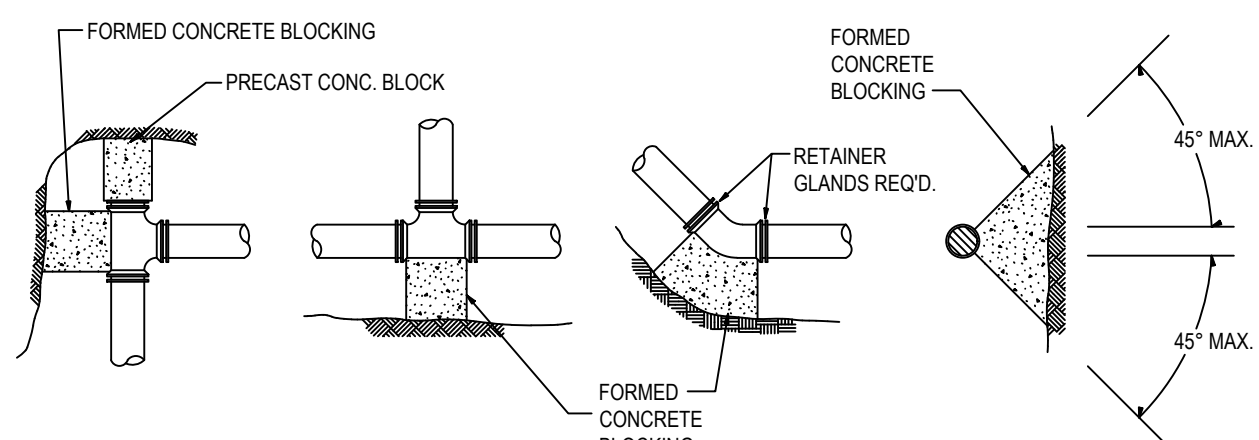
PIPE BEDDING & BACKFILL
NTS

5
C502



VALVE BOX DETAIL
NTS

2
C502



SIZE	TEE & PLUG	90° BEND	45° BEND	22-1/2° BEND	11-1/4° BEND
4"	2.0	2.5	1.5	1.0	1.0
6"	4.0	5.5	3.0	1.5	1.0
8"	6.5	9.0	5.0	2.5	1.5
10"	10.0	14.0	7.5	4.0	2.0
12"	14.0	20.0	11.0	5.5	3.0
14"	19.0	27.0	14.5	7.5	4.0
16"	25.0	36.0	19.0	10.0	5.0
20"	40.0	54.0	31.0	16.5	7.5

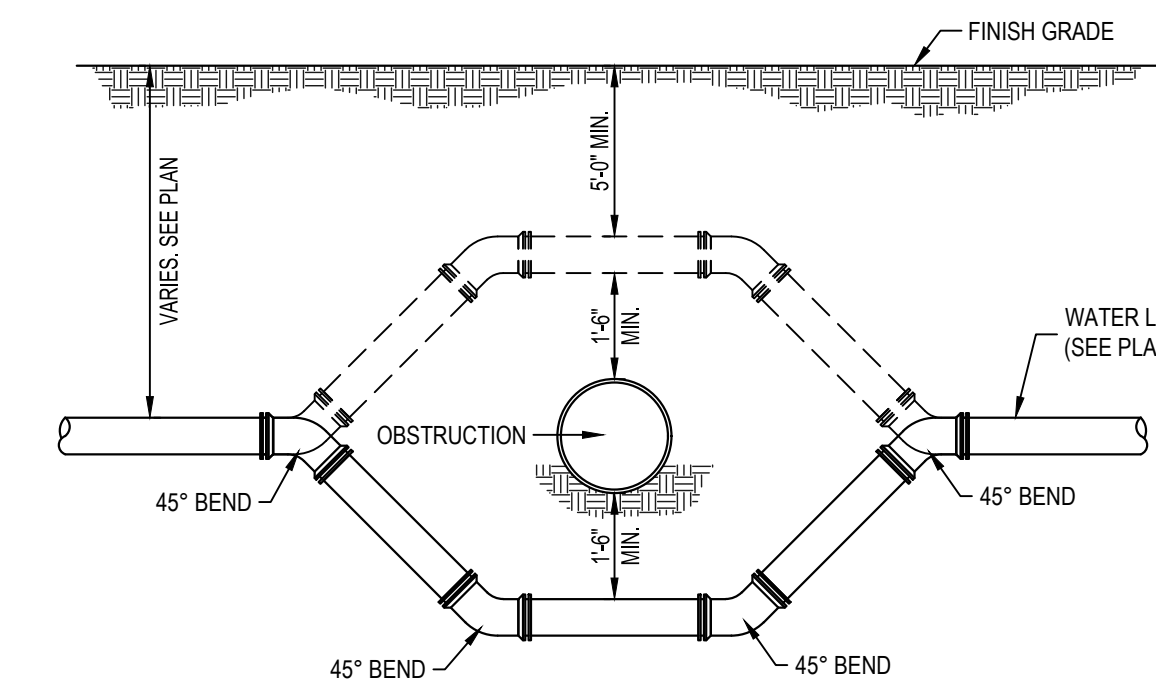
NOTE:
THE THRUST BLOCK AREAS
ARE BASED ON A SOIL
BEARING LOAD OF 2,000 LB./SQ.
FT.

GREASE ALL WATER MAIN
SURFACES PRIOR TO
PLACEMENT OF CONCRETE

(AREA IN SQ. FT. REQUIRED FOR CONCRETE THRUST BLOCKING)

THRUST BLOCK DETAILS
NTS

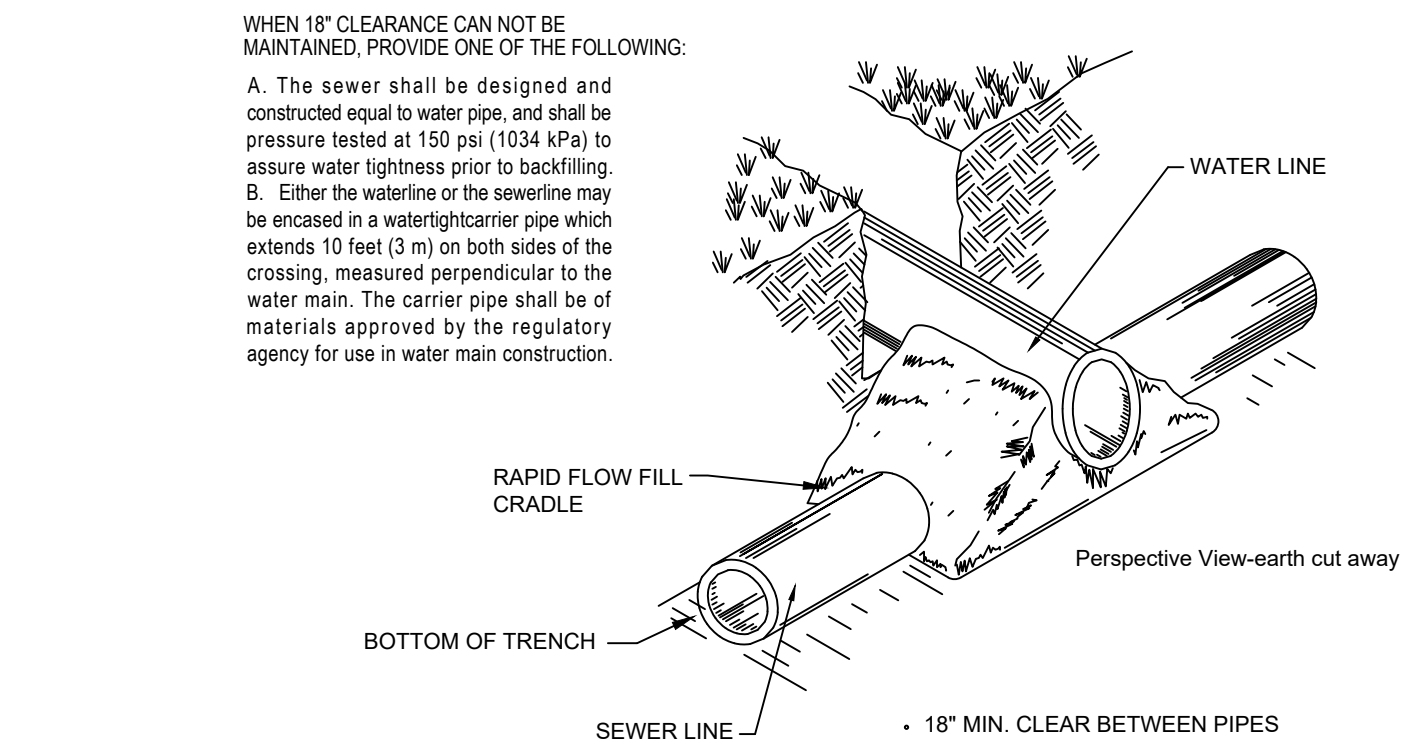
3
C502



NOTE: PIPING OFFSET SHALL BE OVER OBSTRUCTION IF 5'-0" MINIMUM COVER CAN BE ACHIEVED.

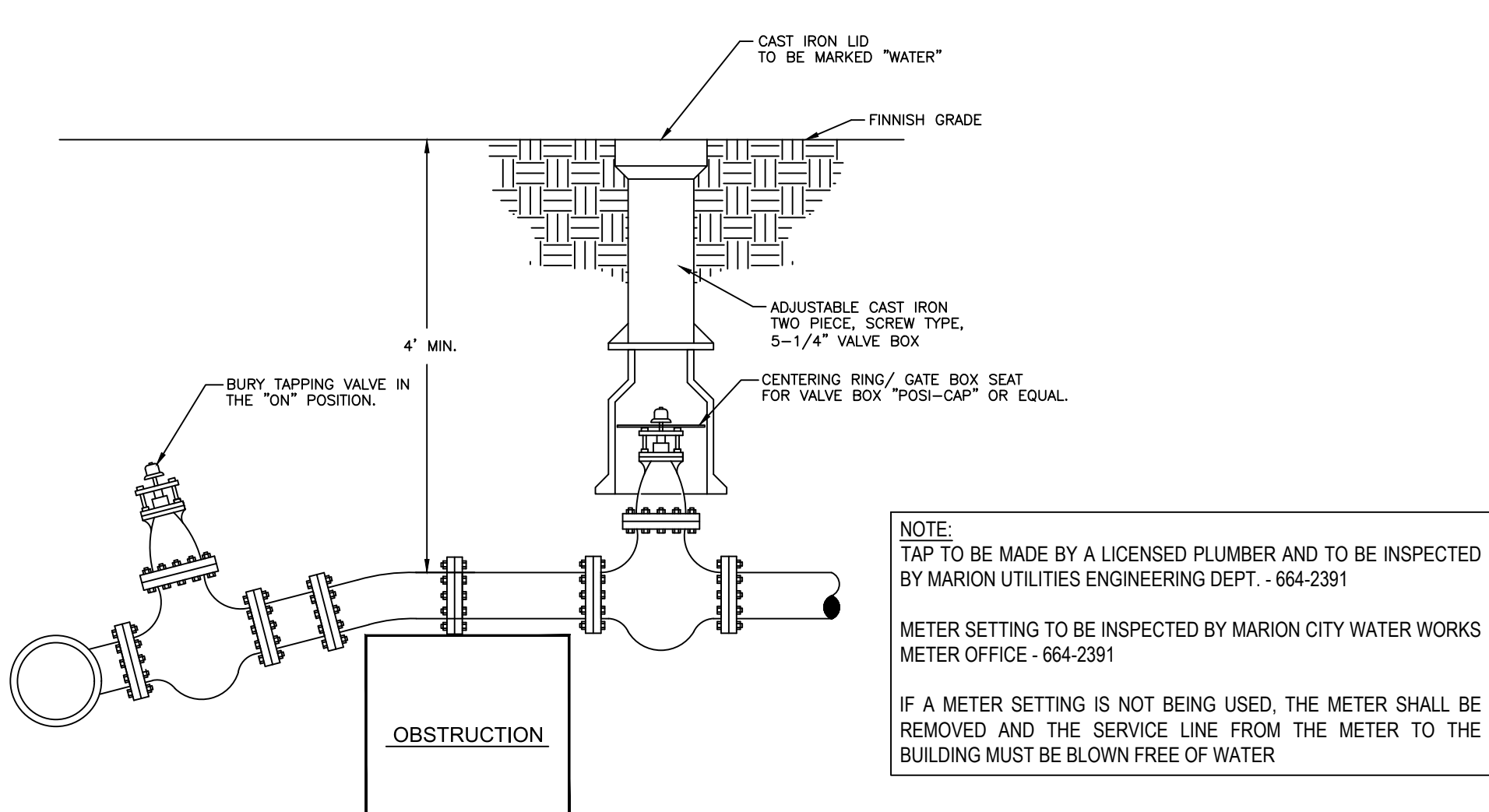
WATER LINE VERTICAL OFFSET DETAIL
NTS

4
C502



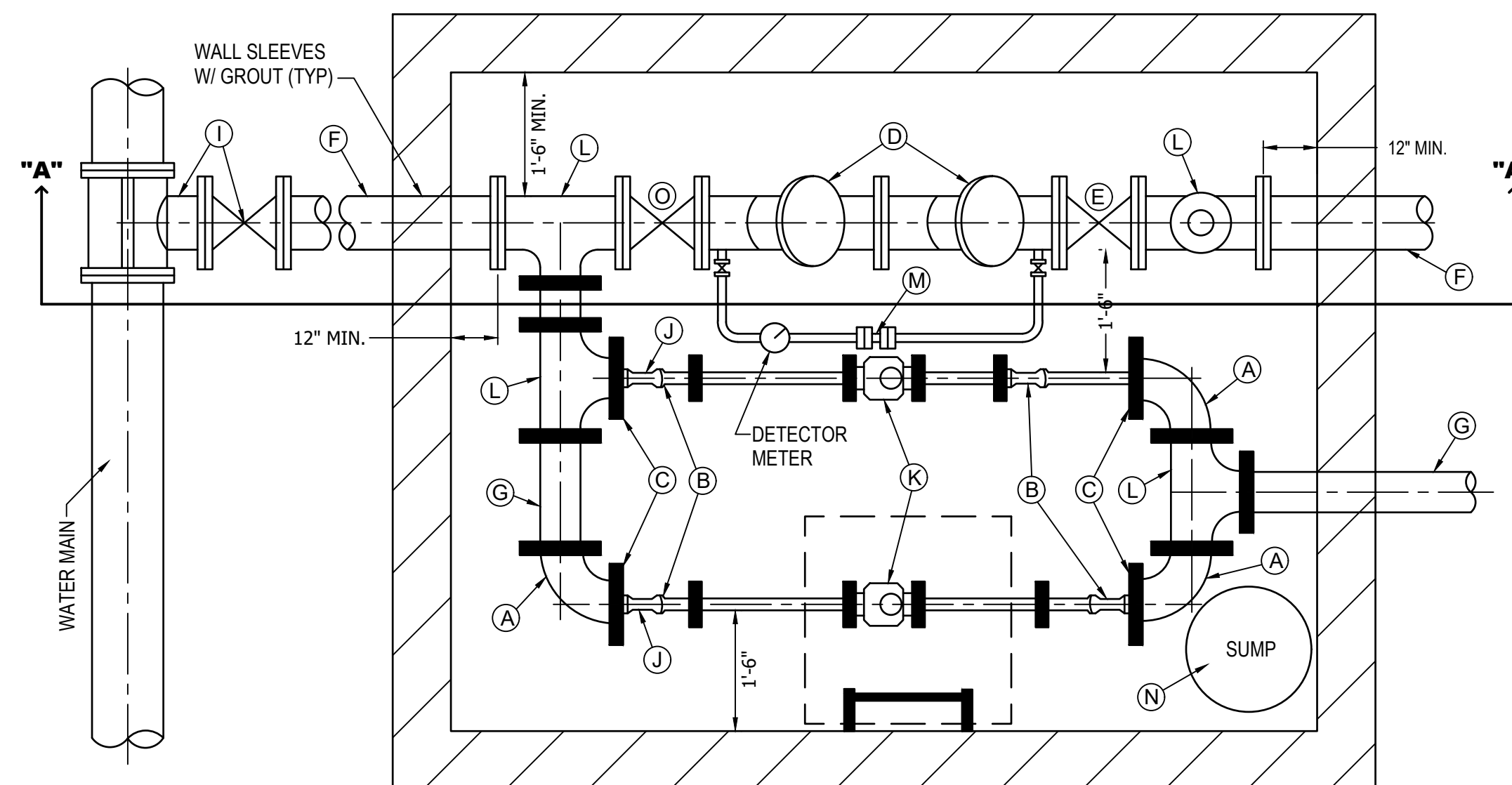
WATER & SEWER CROSSING
NTS

6
C502

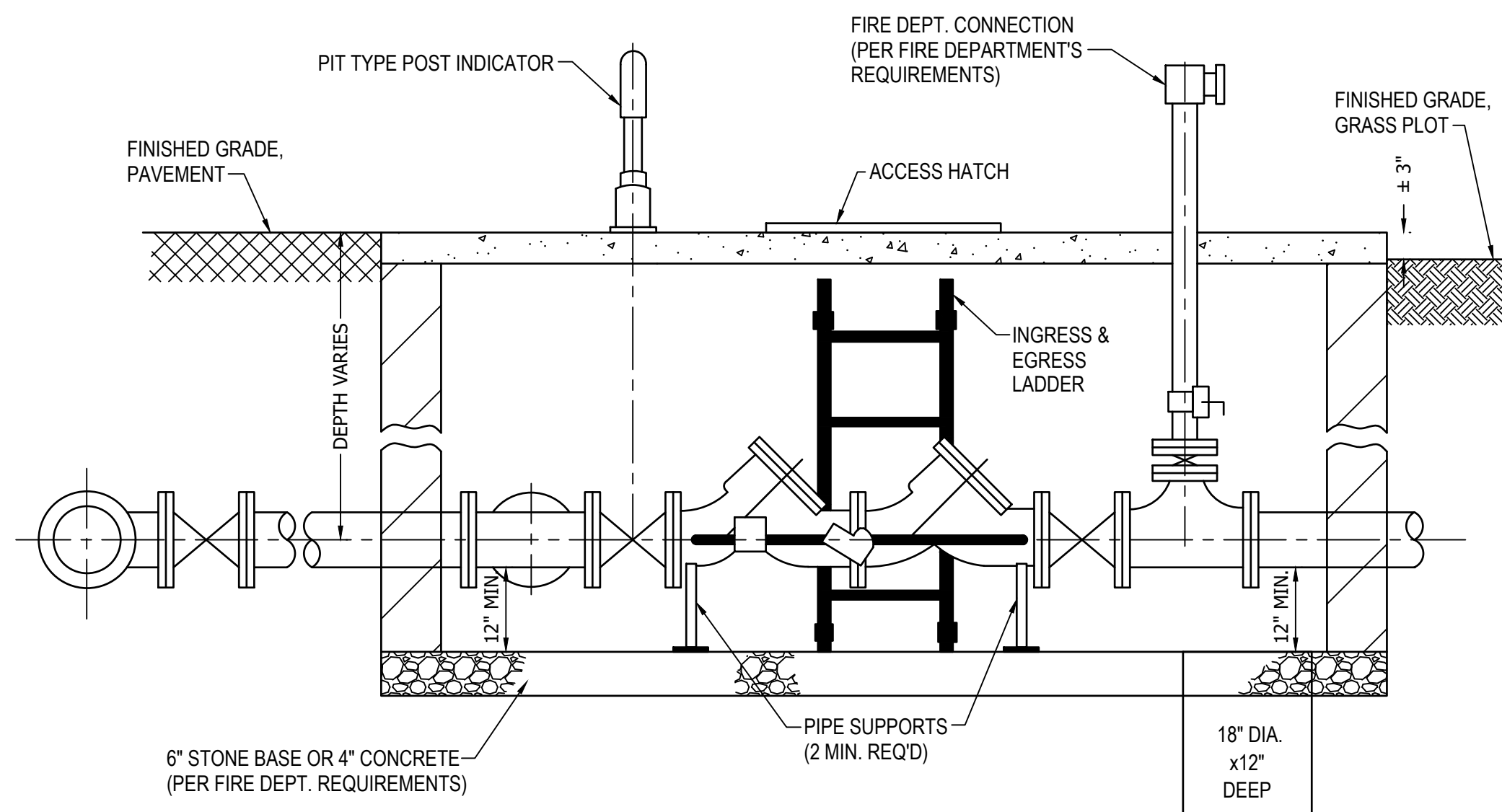


TAPPING SLEEVE AND VALVE (WITH OBSTRUCTION)
NTS

7
C502



PLAN



SECTION "A-A"

LEGEND

- | | | | |
|-----|---|-----|--|
| (A) | 90° FLANGED BEND | (I) | TAPPING SLEEVE W/ TAPPING VALVE & BOX (COORDINATE WITH LOCAL UTILITY SUPERINTENDENT/MANAGER) |
| (B) | BALL VALVE W/ FLANGED END (SEE NOTE #9) | (J) | LOK-PAK |
| (C) | REDUCING VALVE | (K) | DOMESTIC SERVICE METER (SEE NOTE 9) |
| (D) | DOUBLE CHECK DETECTOR ASSEMBLY | (L) | FLANGED TEE |
| (E) | FLANGED OS & Y VALVE | (M) | DOUBLE CHECK DETECTOR ASSEMBLY |
| (F) | FIRE LINE | (N) | SUMP FOR TEMPORARY PUMP |
| (G) | DOMESTIC SERVICE (SEE NOTE 9) | (O) | FLANGED GATE VALVE WITH PIT TYPE POST INDICATOR |
| (H) | NOT USED | | |

COMBINED FIRE SERVICE & METER VAULT FOR DUAL METER CONFIGURATION
NTS

8
C502

NOTES:

- CUSTOMER SHALL FURNISH & INSTALL VAULT, INCLUDING ALL APERTENCES EXCEPT AS NOTED BELOW.
- VAULT CONSTRUCTION MATERIALS SHALL BE 9"x8"x18" CMU, OR PRECAST, OR CAST-IN-PLACE CONCRETE AT CUSTOMER'S SELECTION.
- INSIDE DIMENSIONS PER DRAWING NOTES. VAULT TO BE SET LENGTHWISE WITH SERVICE.
- TOP OF VAULT TO BE CONCRETE, AT LEAST 4" THICK WITH REINFORCING SUITABLE FOR ANTICIPATED LOADING. WHEN VAULT IS CONSTRUCTED IN PAVED AREAS, PAVEMENT IS TO BE LEVEL WITH TOP OF VAULT, AND THE TOP REINFORCED AS REQUIRED TO SUPPORT TRAFFIC LOADS (i.e. H-20 WHEEL LOADS). WHEN VAULT IS CONSTRUCTED IN GRASS PLOT, TOP OF VAULT SHALL BE 3" ABOVE FINISHED GRADE.
- BOTTOM OF VAULT TO BE EITHER A MINIMUM OF 6" OF CRUSHED STONE OR 4" CONCRETE PER FIRE DEPARTMENTS REQUIREMENT. MINIMUM CLEARANCE OF 12" BELOW BOTTOM OF FIRE SERVICE AND DOMESTIC SERVICE LINES IS REQUIRED.
- DOUBLE CHECK DETECTOR ASSEMBLY SHALL BE A MODEL APPROVED BY THE INDIANA DEPARTMENT OF ENVIRONMENTAL MANAGEMENT, WITH RESILIENT SEAT GATE VALVE ON INLET & OUTLET SIDES. DETECTOR METER IS FURNISHED BY UTILITY AND INSTALLED BY CUSTOMER.
- ACCESS HATCH IN TOP OF VAULT SHALL BE 30"x30" ALUMINUM BILCO J-2AL, BILCO PCM-2, HALLIDAY W193030 OR EQUAL. ACCESS HATCH SHALL HAVE SAME OR GREATER LOADING CAPACITY AS VAULT LID. PIPE HATCH FRAME DRAIN TO VAULT FLOOR OR SUMP, AS APPLICABLE.
- LADDER FOR VAULT INGRESS AND EGRESS SHALL BE PER OSHA REQUIREMENTS. LADDER MATERIAL SHALL BE ALUMINUM OR FIBERGLASS AND INCLUDE A BILCO "LADDER-UP" SAFETY DEVICE OR EQUAL.
- A COMBINATION VAULT CAN BE USED AT THE DISCRETION OF THE UTILITY.
 - UTILITY WILL FURNISH AND INSTALL DOMESTIC SERVICE FROM TAP THROUGH METER. METER SIZING IS SELECTED BY UTILITY.
 - CUSTOMER SHALL FURNISH BALL VALVES ON OUTLET SIDE OF THE DOMESTIC METER SETTING.
 - BY-PASS W/LOCK VALVE MAY BE INSTALLED BY CUSTOMER UPON UTILITY'S APPROVAL.

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Jason Miller

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DESIGNED: KAG
DRAWN BY: APB
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DATE: 2024-01-26

REVISIONS		
NO.	DATE	BY

WATER LINE DETAILS

ATWELL SUITES
AN IHG HOTEL

ERLEN DR & MINDEN
Dr FISHERS, IN

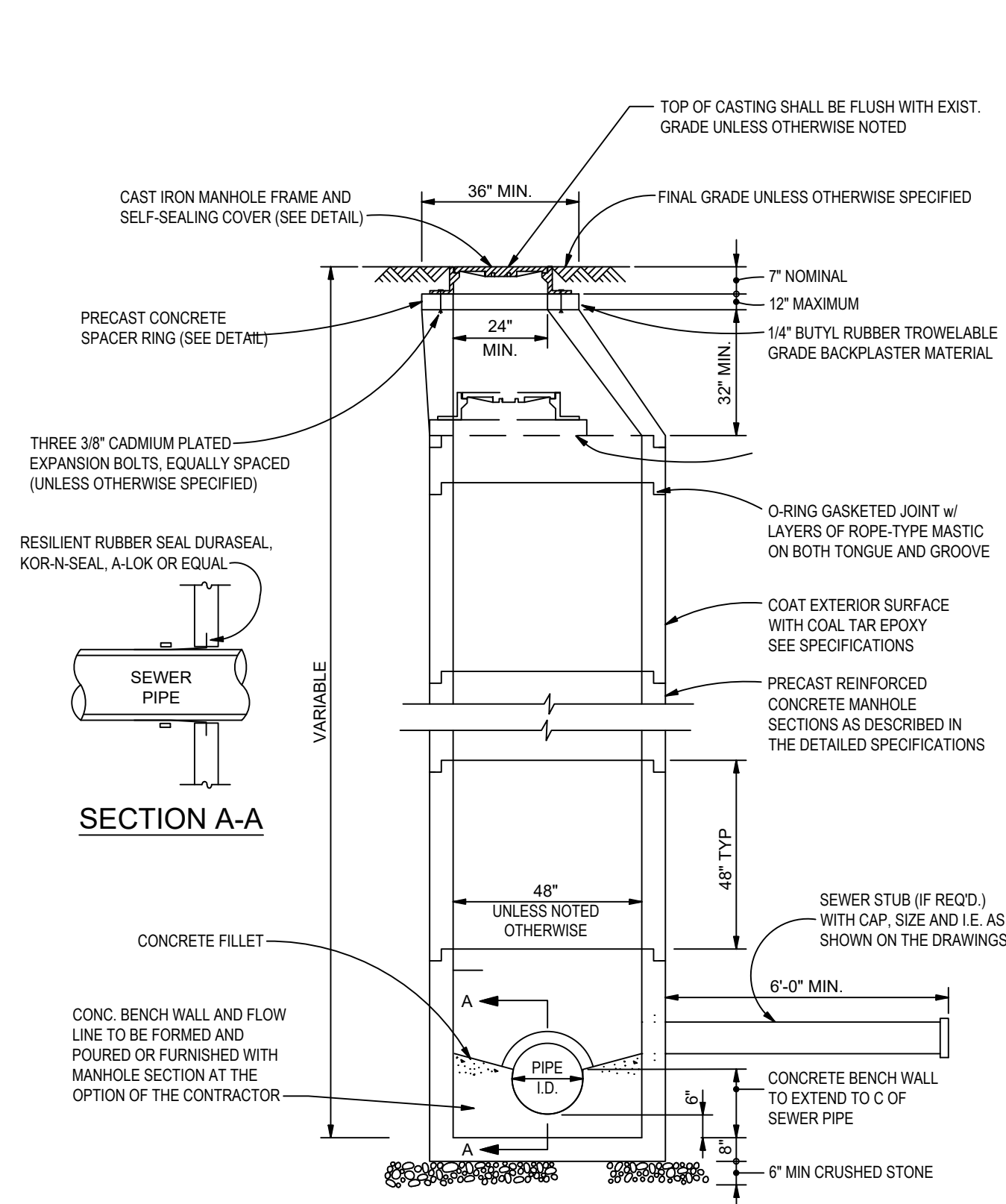
HORIZONTAL SCALE

VERTICAL SCALE

SHEET

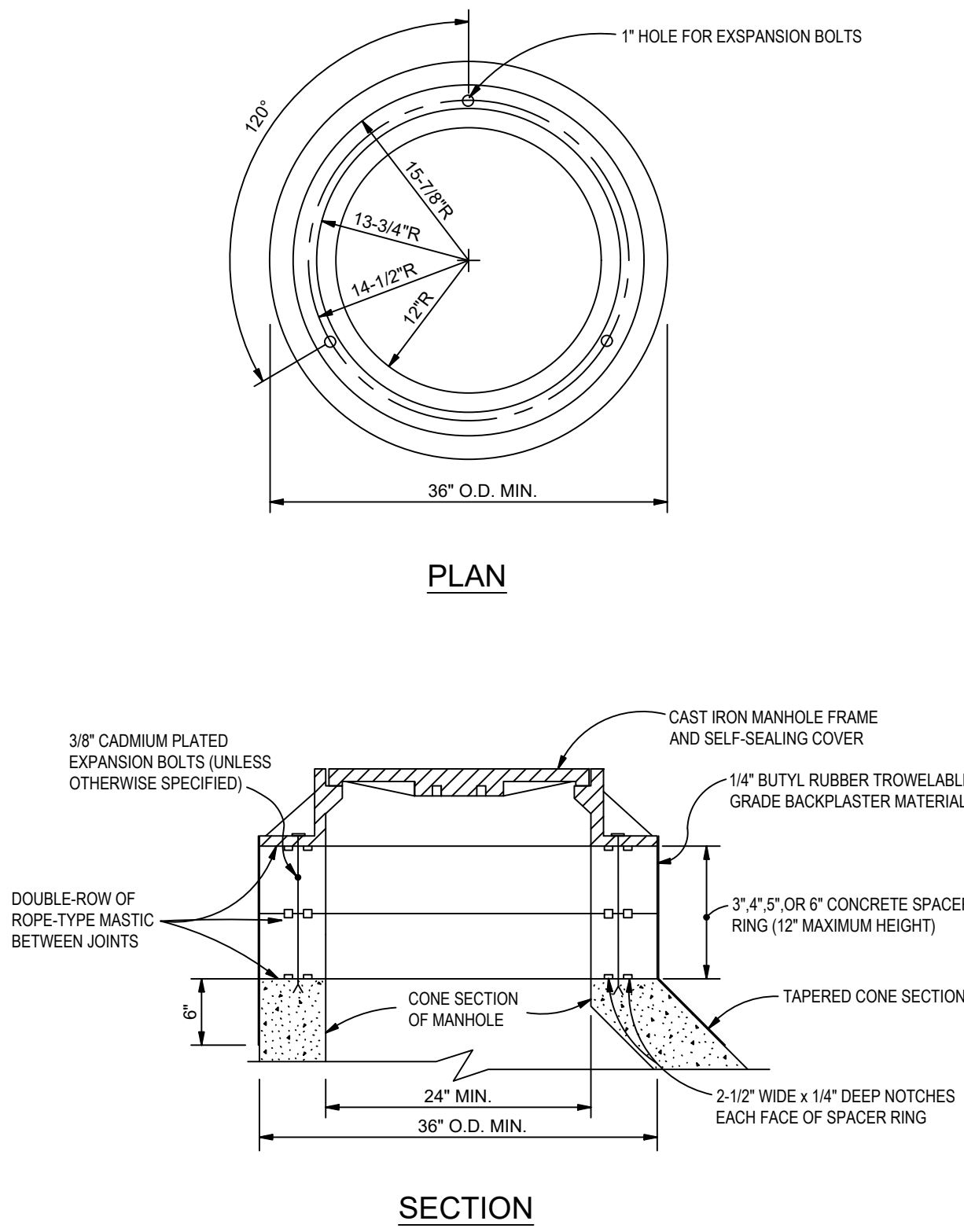
C502

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MANHOLE TYPE C DETAIL
NTS

1
C503

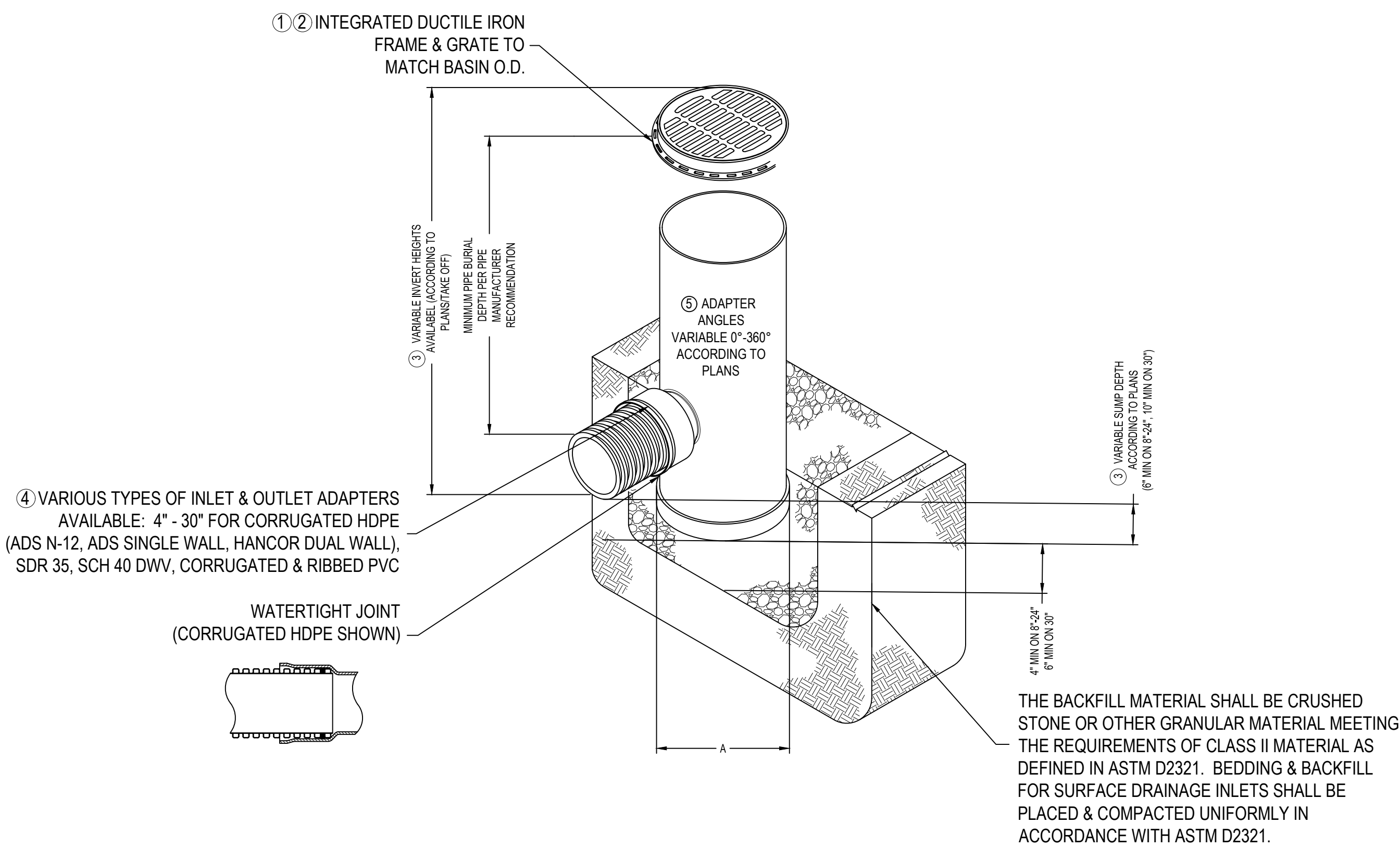


SPACER RING DETAIL
NTS

2
C503

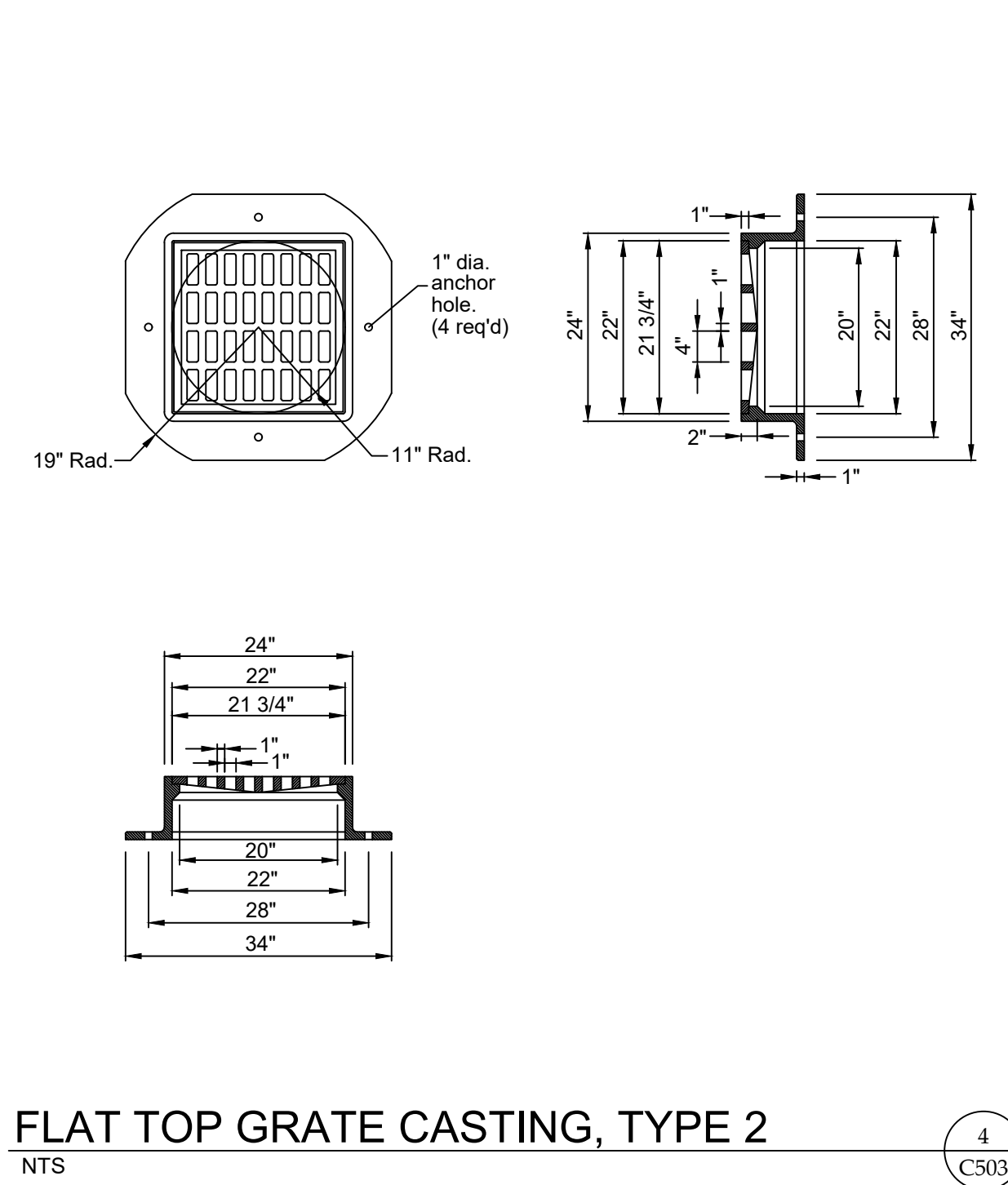
A	PART #	GRATE OPTIONS			
8"	2808AG	PEDESTRIAN STANDARD	SOLID	BRONZE	DOMEDROP IN
10"	2810AG	PEDESTRIAN STANDARD	SOLID	BRONZE	DOMEDROP IN
12"	2812AG	PEDESTRIAN STANDARD	SOLID	BRONZE	DOMEDROP IN
15"	2815AG	PEDESTRIAN STANDARD	SOLID	BRONZE	DOMEDROP IN
18"	2818AG	PEDESTRIAN STANDARD	SOLID	N/A	DOMEDROP IN
24"	2824AG	PEDESTRIAN STANDARD	SOLID	N/A	DOMEDROP IN
30"	2830AG	PEDESTRIAN STANDARD	SOLID	N/A	N/A

- 8" - 30" GRATES/SOLID COVERS SHALL BE DUCTILE IRON PER ASTM A536 GRADE 70-50-05, WITH THE EXCEPTION OF THE 8" - 15" BRONZE GRATES
- 12" - 30" FRAMES SHALL BE DUCTILE IRON PER ASTM A536 GRADE 70-50-05
- DRAIN BASIN TO BE CUSTOM MANUFACTURED ACCORDING TO PLAN DETAILS. RISERS ARE NEEDED FOR BASINS OVER 84" DUE TO SHIPPING RESTRICTIONS. SEE DRAWING NO. 7001-110-065
- DRAINAGE CONNECTION STUB JOINT TIGHTNESS SHALL CONFORM TO ASTM D3212 FOR CORRUGATED HDPE (ADS & HANCOR DUAL WALL) & SDR 35 PVC
- ADAPTERS CAN BE MOUNTED ON ANY ANGLE 0° TO 360°. TO DETERMINE MINIMUM ANGLE BETWEEN ADAPTERS SEE DRAWING NO. 7001-110-012, 7001-110-013, & 7001-110-014
- GRATES SHALL MEET H-10 LOAD RATING FOR 12" - 24" PED
- GRATES SHALL MEET H-20 LOAD RATING FOR 30" PED & 12" - 30" STD & SOLID
- ALL BRONZE GRATES, DROP IN GRATES, & 8" & 10" PED/STD GRATES & SOLID COVERS ARE RATED FOR LIGHT DUTY APPLICATIONS ONLY
- DOMED GRATES HAVE NO LOAD RATING



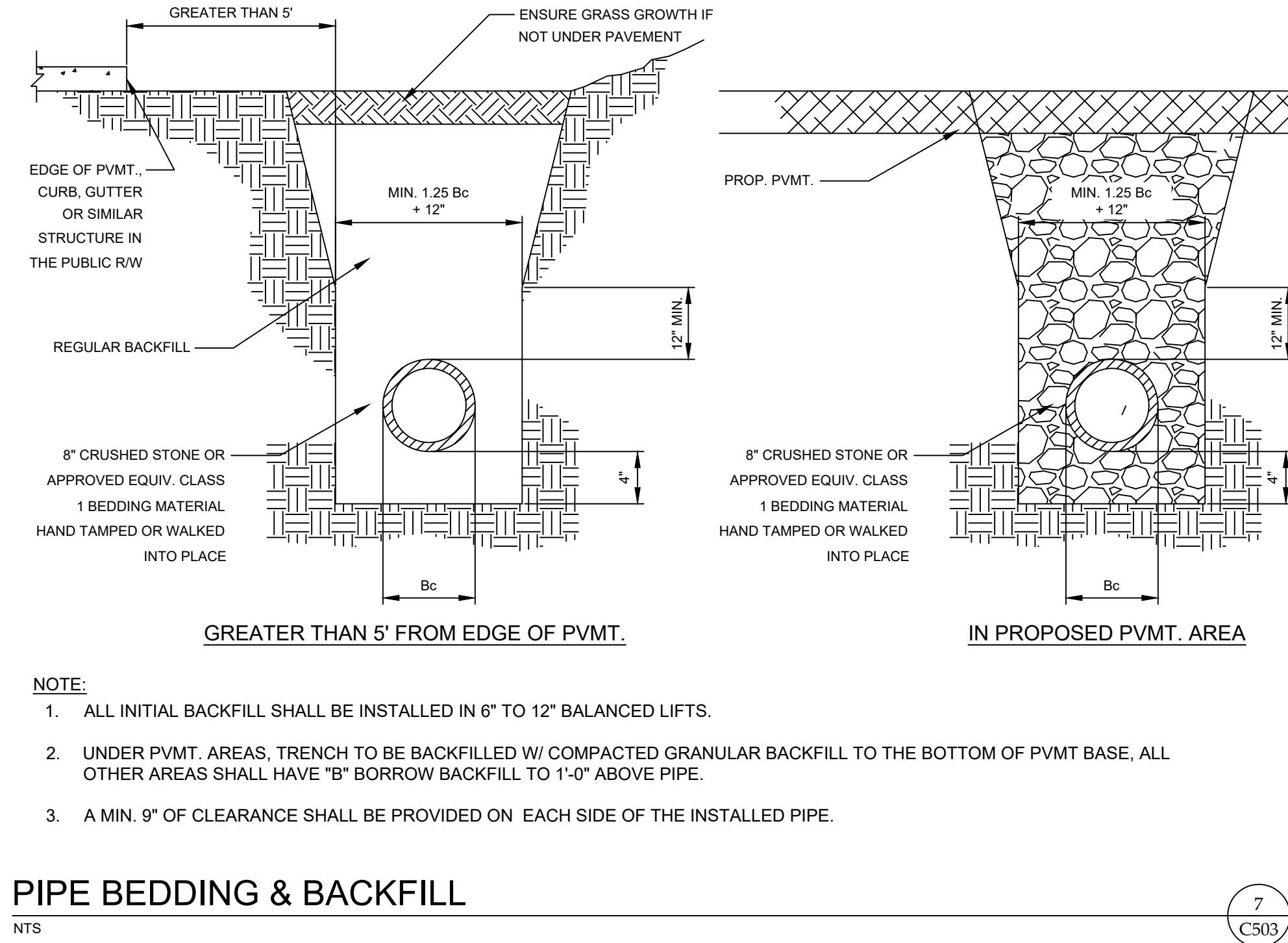
NYLOPLAST DRAIN BASIN TYPICAL INSTALLATION DETAIL
NTS

3
C503



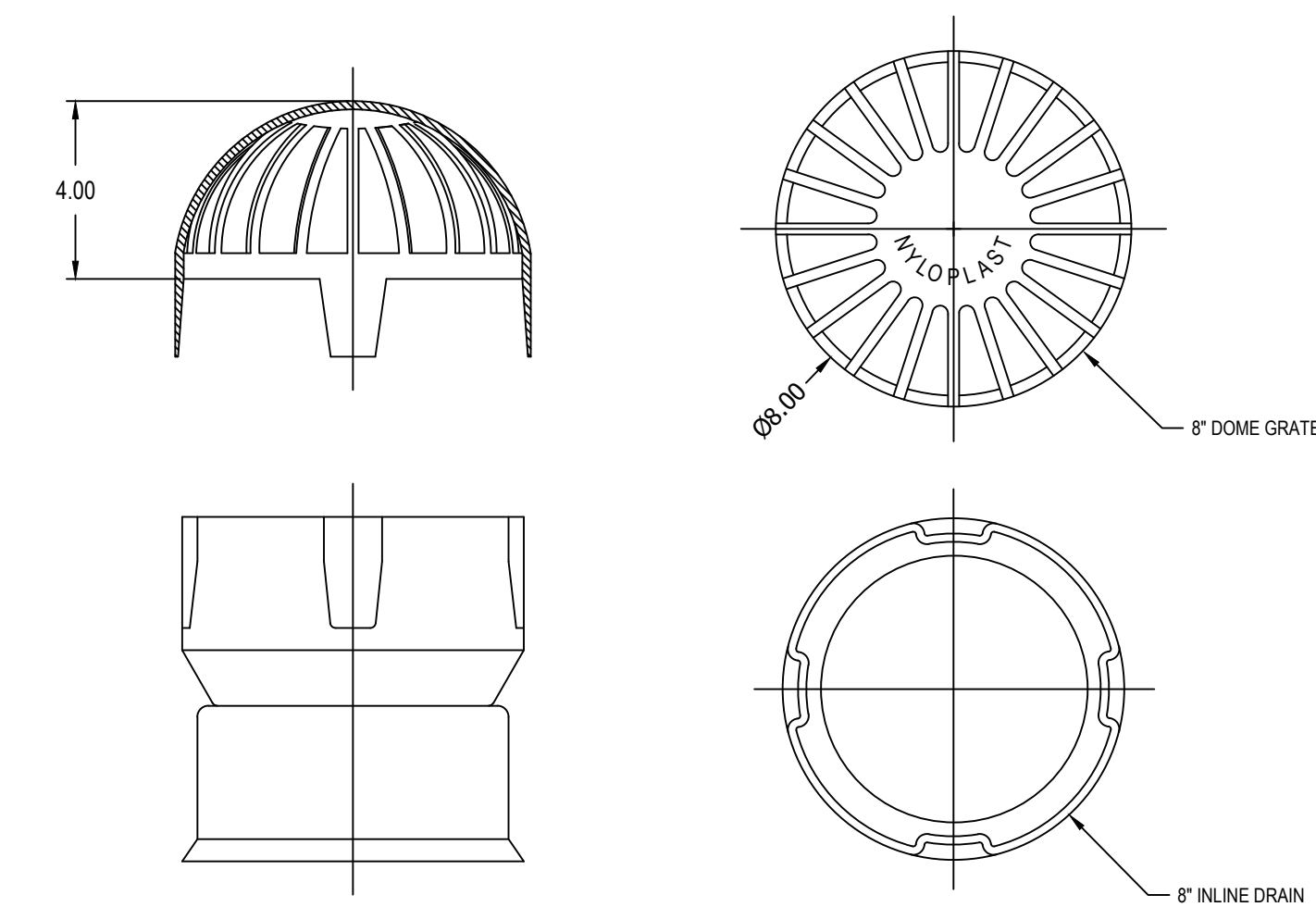
FLAT TOP GRATE CASTING, TYPE 2
NTS

4
C503



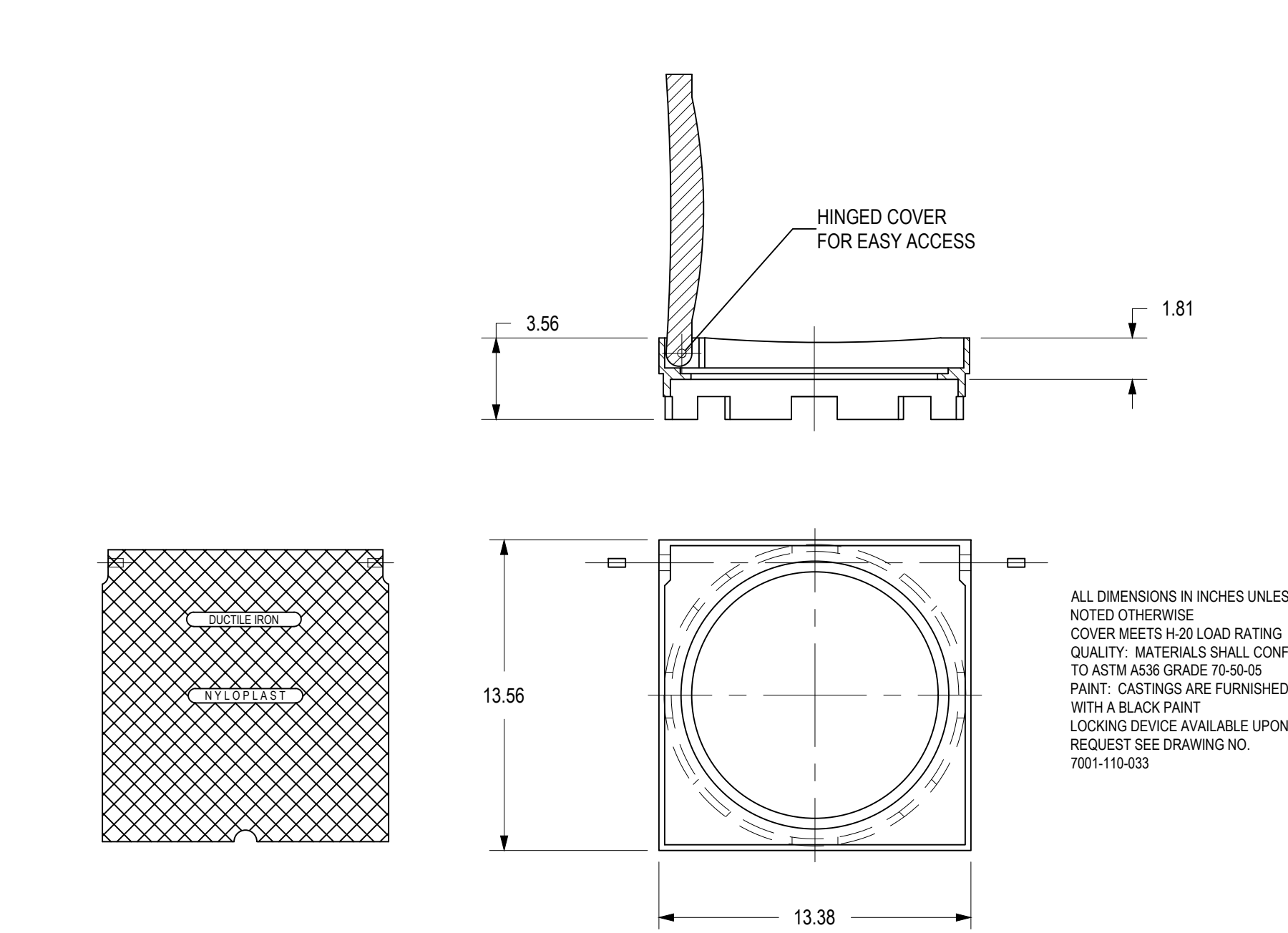
PIPE BEDDING & BACKFILL
NTS

7
C503



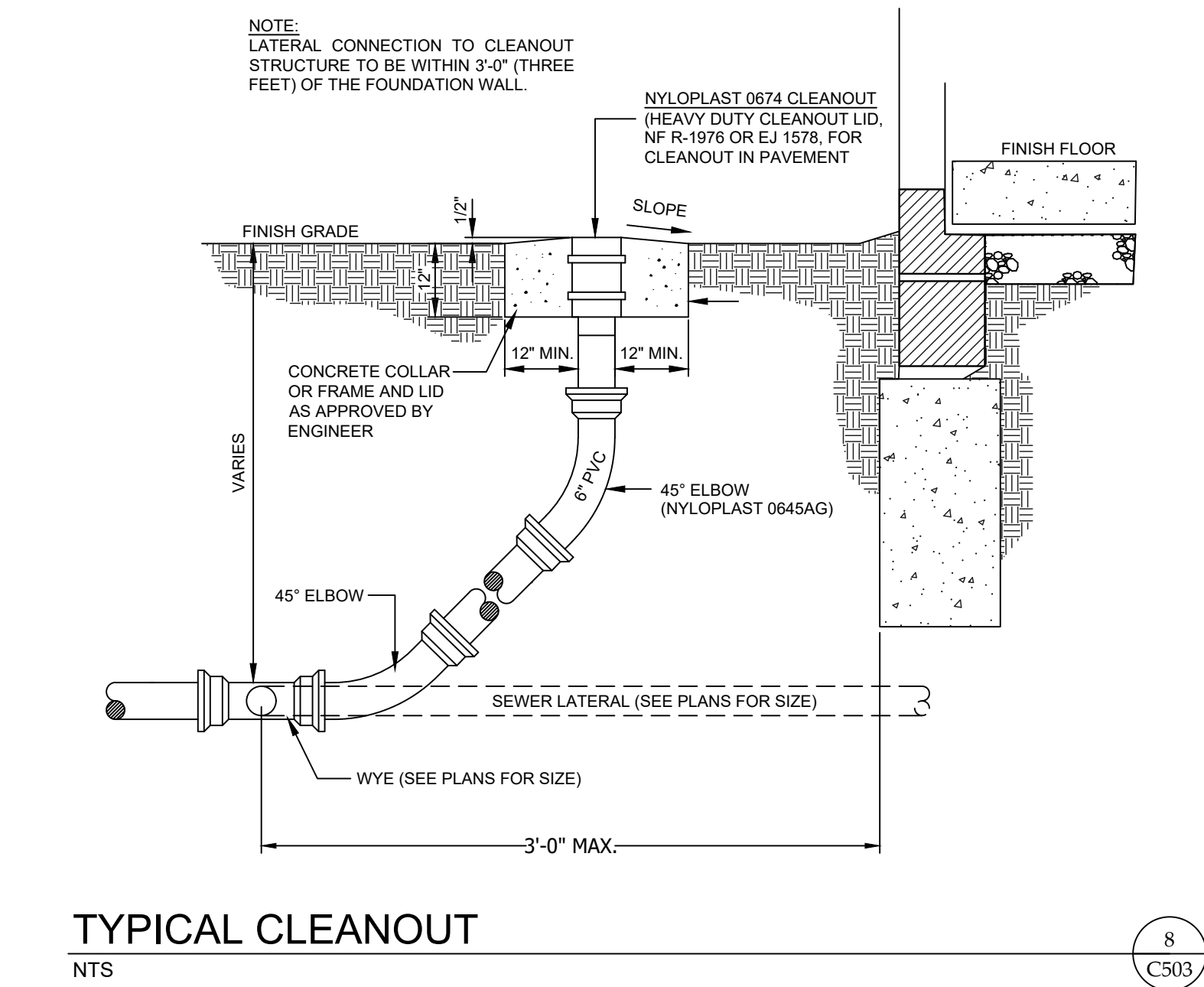
NYLOPLAST 0899CGD (8" DOME GRATE ASSEMBLY)
NTS

5
C503



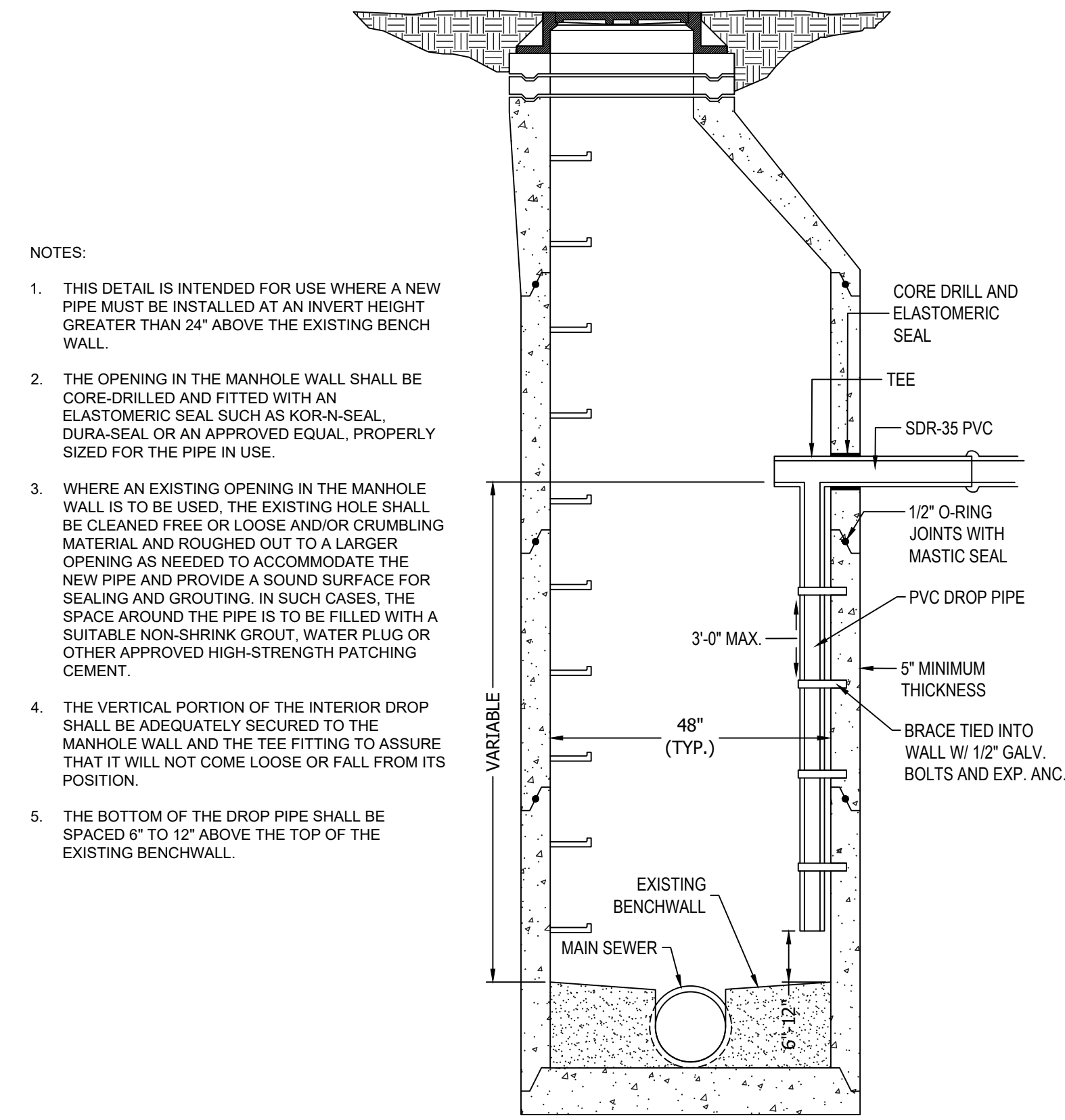
NYLOPLAST 1299CGC (12" SOLID GRATE ASSEMBLY)
NTS

6
C503



TYPICAL CLEANOUT
NTS

8
C503



STANDARD INTERIOR DROP CONNECTION
NTS

9
C503

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REGISTERED
No. PE-10707416
STATE OF INDIANA
PROFESSIONAL ENGINEER

Jason Miller

JOB NO: 21-0189
DESIGNED: KAG
DRAWN BY: APB
CHECKED BY: JMM
DATE: 2024-01-26

REVISIONS		
NO.	DATE	BY

STORM AND
SANITARY SEWER
DETAILS

ATWELL SUITES
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ERLEN DR & MINDEN
Dr FISHERS, IN

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HORIZONTAL SCALE

VERTICAL SCALE

SHEET

C503



EXTERIOR FINISH LEGEND			
TAG #	MATERIAL	COLOR	TOTAL SF = 34,043 SF
BRICK-1	UTILITY BRICK	COLOR TO MATCH DRYVIT "DOVER SKY" (SHERWIN WILLIAMS CHEV/OT SW9503)	9,598 SF (28.2%)
BRICK-2	UTILITY BRICK	COLOR TO MATCH DRYVIT "IRISH COFFEE" (SHERWIN WILLIAMS SPICED CIDER SW7702)	13,660 SF (40.1%)
EIFS-3	EIFS	COLOR TO MATCH SHERWIN WILLIAMS IRON ORE SW7069	7,670 SF (22.5%)
EIFS-2	EIFS	COLOR TO MATCH DRYVIT "IRISH COFFEE" (SHERWIN WILLIAMS SPICED CIDER SW7702)	948 SF (2.8%)
FC-3	FIBER CEMENT	COLOR TO MATCH SHERWIN WILLIAMS IRON ORE SW7069	1,865 SF (5.5%)
EM-4	PORCELAIN TILE	CMC MOTIVATE WALNUT MATTE FINISH	301 SF (0.9%)



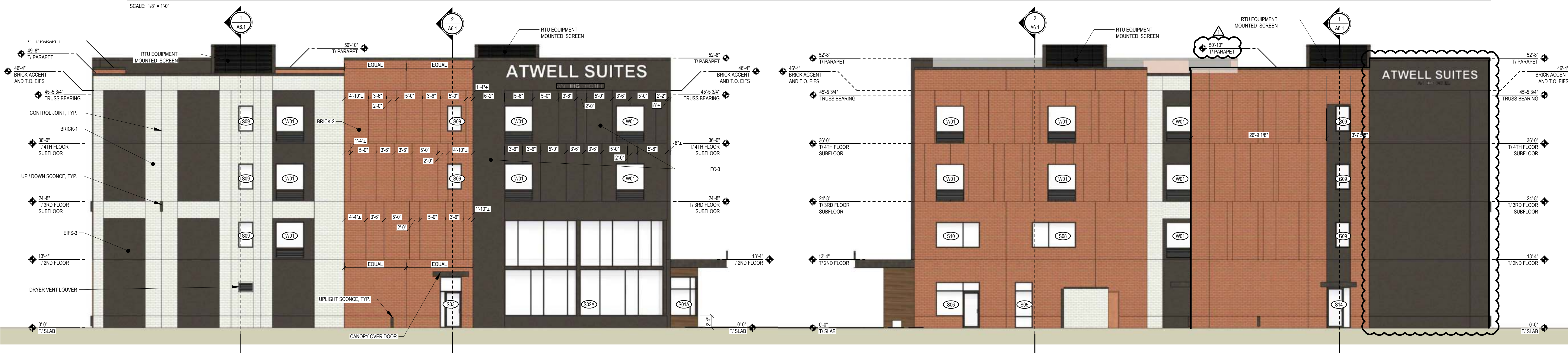
WEST BUILDING ELEVATION

SCALE: 1/8" = 1'-0"



EAST BUILDING ELEVATION

SCALE: 1/8" = 1'-0"

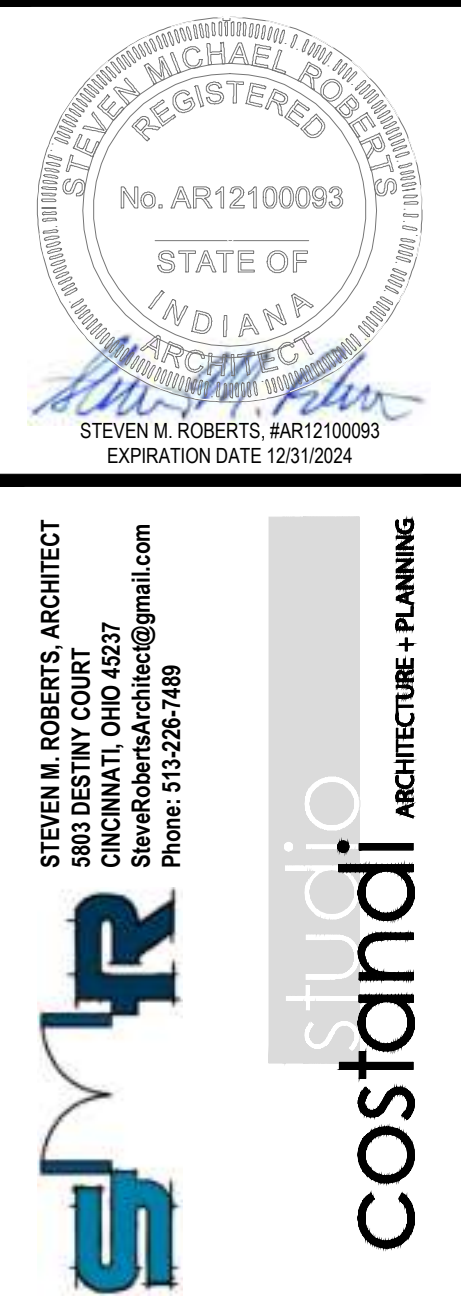


NORTH BUILDING ELEVATION

SCALE: 1/8" = 1'-0"

SOUTH BUILDING ELEVATION

SCALE: 1/8" = 1'-0"



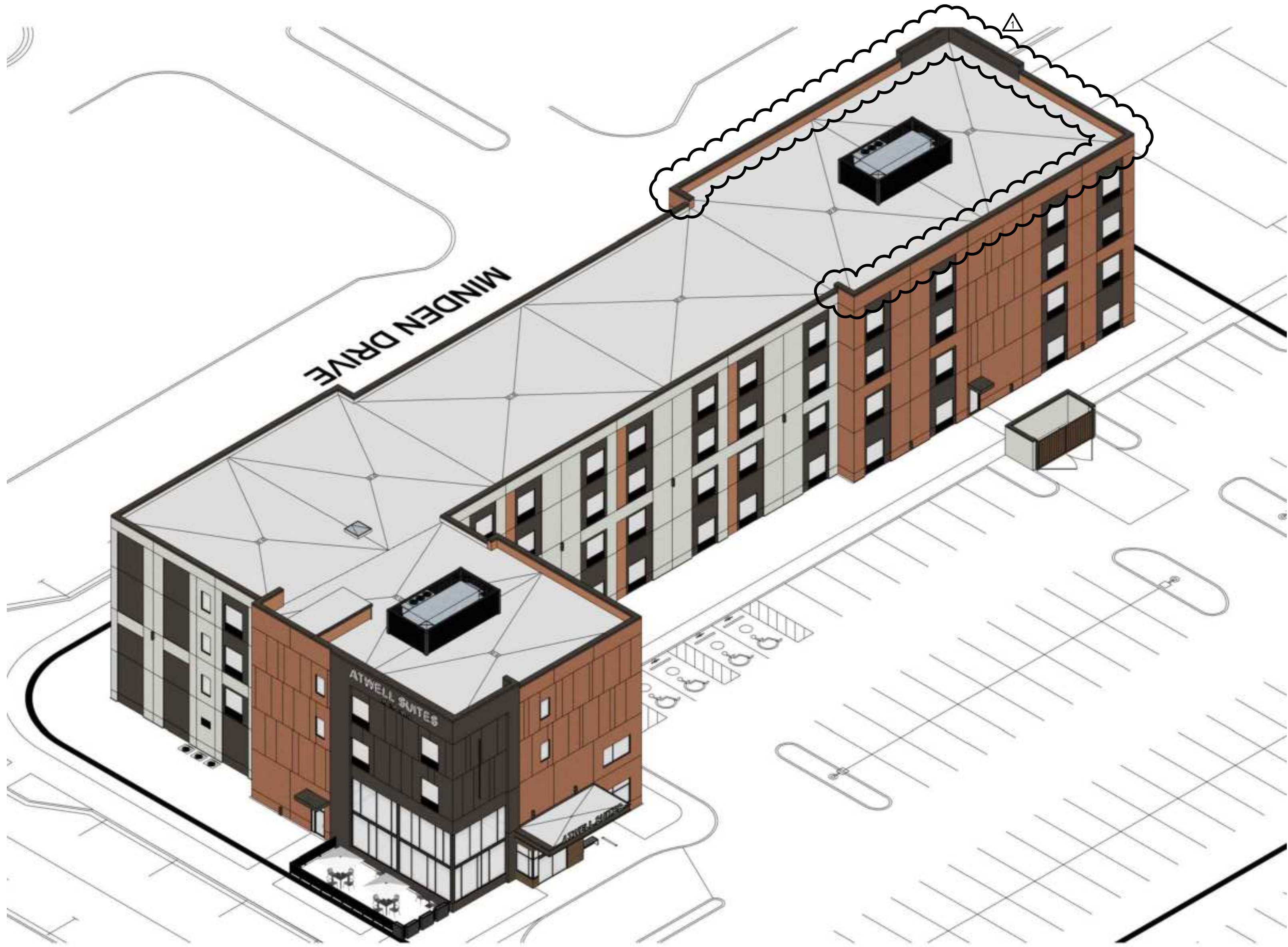
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ERLEN DR. & MINDEN DR. FISHERS, INDIANA 46037 HAMILTON COUNTY

BUILDING ELEVATIONS

ISSUE / REVISION DATE:	
● 05/04/2022	OWNER REVIEW
● 06/23/2022	OWNER REVIEW
● 08/04/2022	PRELIMINARY REVIEW
● 01/13/2023	FRANCHISE REVIEW
● 04/21/2023	FRANCHISE REVIEW
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● 09/19/2023	HIS FINAL REVIEW
● 11/17/2023	SAXONY DESIGN REVIEW 2
● 01/26/2024	FOR CONSTRUCTION
● 04/10/2024	CLOUDED REVISION 1

SMR Project No. **AWSFIN**

A5.1



ISO VIEW: NORTHWEST CORNER LOOKING SOUTHEAST



ISO VIEW: NORTHEAST CORNER LOOKING SOUTHWEST



ISO VIEW: SOUTHWEST CORNER LOOKING NORTHEAST



ISO VIEW: SOUTHEAST CORNER LOOKING NORTHWEST

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ISOMETRIC VIEWS

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SMR Project No. AWSFIN

A5.2

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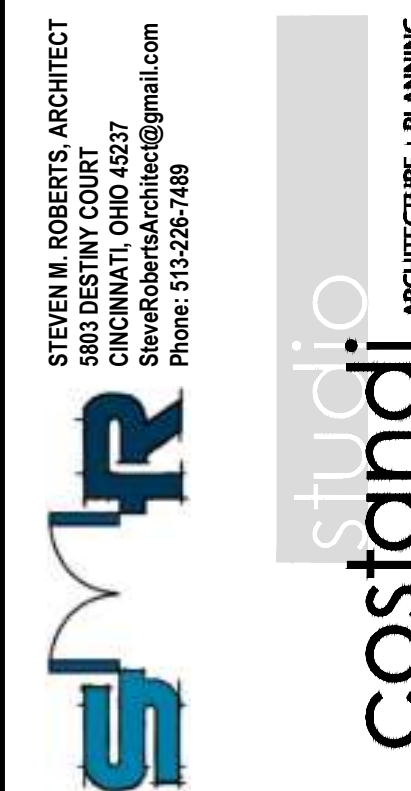
3D VIEWS

ISSUE / REVISION DATE:

● 05/04/2022	OWNER REVIEW
06/23/2022	OWNER REVIEW
● 08/04/2022	PRELIMINARY REVIEW
● 01/13/2023	FRANCHISE REVIEW
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● 05/17/2023	SAXONY DESIGN REVIEW
● 09/19/2023	IHG FINAL REVIEW
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● 04/10/2024	CLAUDE REVISION 1

SMR Project No. **AWSFIN**

A5.3



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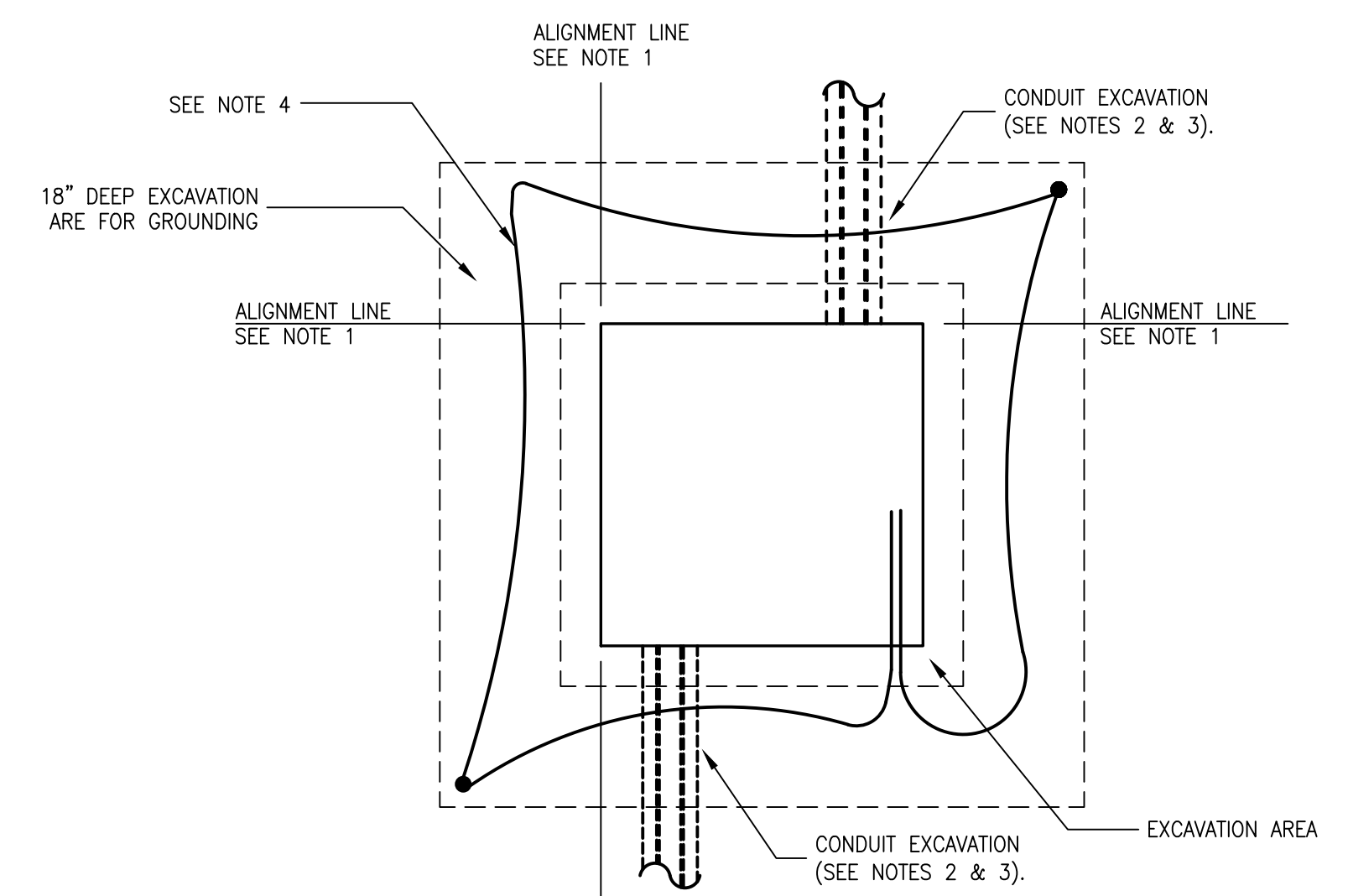
3D VIEWS

ISSUE / REVISION DATE:

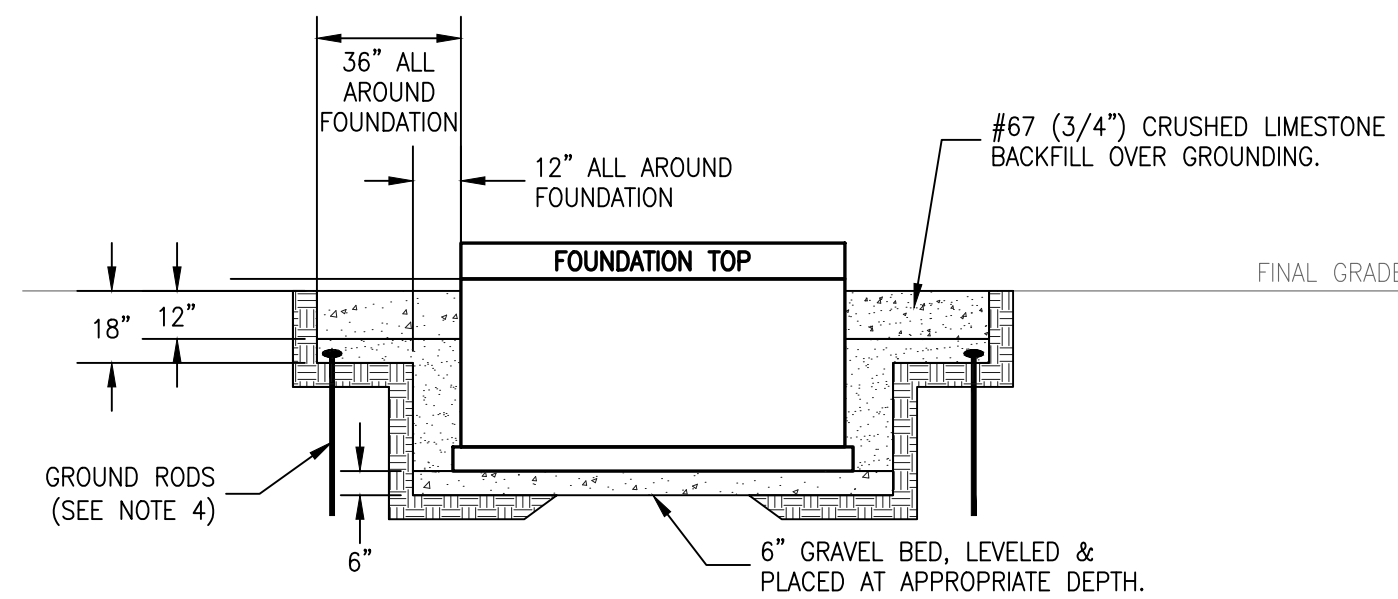
● 05/04/2022	OWNER REVIEW
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● 01/26/2024	FOR CONSTRUCTION
● 04/10/2024	CLOSED REVISION

SMR Project No. **AWSFI**

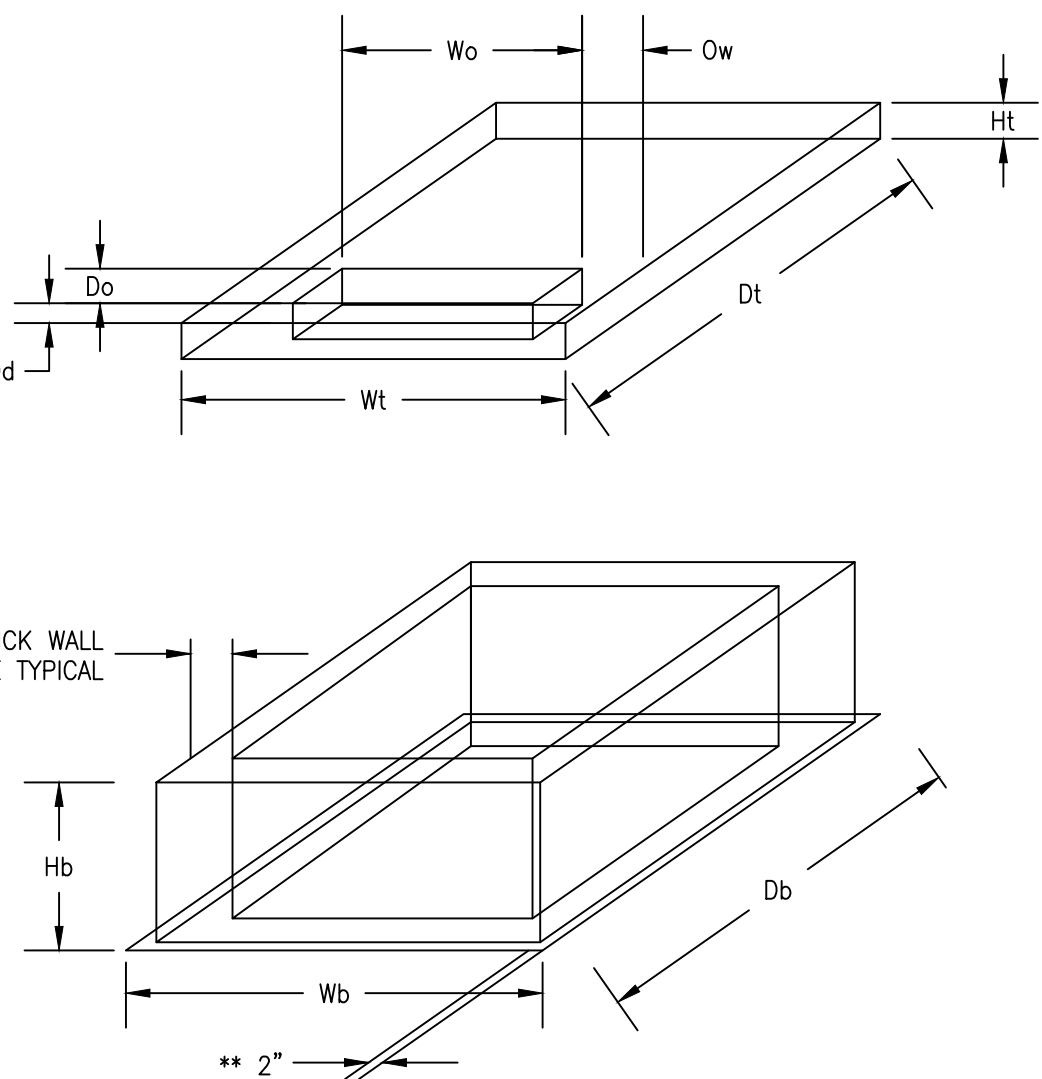
A5.4



TRANSFORMER VAULT - PLAN VIEW
NO SCALE



TRANSFORMER VAULT - SECTION VIEW
NO SCALE



TRANSFORMER VAULT - DIMENSION DETAILS
NO SCALE

TRANSFORMER SIZE	TRANSFORMER SIZE				TRANSFORMER SIZE				TRANSFORMER SIZE			
	Wb	Db	Hb	WEIGHT	Wt	Dt	Ht	WEIGHT	Wd	Od	Wt	Od
150 kVA & BELOW	72"	54"	42"	4275lb	72"	54"	6"	1725lb	42"	14"	15"	6"
225 - 1000 kVA	82"	70"	42"	8000lb	78"	66"	6"	2400lb	48"	14"	15"	6"
1500 - 2500 kVA	100"	100"	42"	12000lb	96"	96"	9"	6400lb	60"	15"	18"	9"
1500 - 2500 kVA	100"	100"	42"	14000lb	96"	96"	9"	6400lb	60"	15"	18"	9"

** Base for the 150 kVA & below does not have 2" base extension

PRE-CAST CONCRETE FOUNDATION TABLE GENERAL NOTES:

- CUSTOMER RETAINS OWNERSHIP OF FOUNDATION.
- BASE IS CUSTOMIZED FOR LOCATION : CONDUIT TERMINATORS W/ KNOCKOUTS; OPENINGS FOR CONDUIT PUSH THROUGH; CUSTOMER SECONDARY CABLE CONDUIT OPENINGS.
- HE DEEPER BASE FOR THE 1500-2500 kVA TRANSFORMER IS USED WHEN THE SECONDARY CONDUIT CONFIGURATION REQUIRES A DEEPER WELL TO MAINTAIN NESC MINIMUM SOIL COVER OVER THE CONDUIT.

TRANSFORMER DETAILS CONSTRUCTION NOTES:

- FOR DELIVERY OF PRE-CAST FOUNDATION, THE CUSTOMER MUST COMPLETE THE FOLLOWING: EXCAVATION TO THE DESIGNATED DEPTH; 6" GRAVEL BED INSTALLED (TAMPED & LEVELED AT APPROPRIATE DEPTH); PAVEMENT (EITHER CONCRETE ASPHALT OR GRASSCRETS) TO WITHIN 10' OF INSTALLATION FOR DELIVERY TRUCK; PAINTED LINES OR STAKES & STRINGS FOR ALIGNMENT IN PLACE; THREE 4" X 4" LUMBER OFF TO SIDE FOR UNLOADING FOUNDATION TOP AT DELIVERY TIME).
- CUSTOMER TO PROVIDE, INSTALL AND SEAL A MIN 5' SECTION OF PVC CONDUIT THRU THE WALL OF THE FOUNDATION BASE (SLOPING DOWN AWAY FROM THE FOUNDATION) FOR FE Operating Co. (FECC) PRIMARY CABLE AT FECC DESIGNATED LOCATION. CONDUIT POSITIONS VARY. REFER TO FECC CONSTRUCTION PLANS FOR ACTUAL LOCATIONS.
- EXCAVATION FOR CONDUITS CAN BE DONE AT SAME TIME AS FOR FOUNDATION.
- THE CUSTOMER SHALL INSTALL A CONTINUOUS LOOP OF #2 BARE, SEVEN STRAND SOFT DRAWN COPPER WIRE CONNECTED TO TWO 5/8-INCH DIAMETER X 8-FOOT GROUND RODS INSTALLED IN OPPOSITE CORNERS OF THE VAULT IN UNDISTURBED EARTH. BOTH ENDS OF THE GROUND WIRE SHALL ENTER THE FOUNDATION THROUGH A ONE INCH DIAMETER HOLE TO BE DRILLED OR CHISELED IN THE UPPER RIGHT HAND CORNER OF THE KNOCKOUT PANE. EACH GROUND WIRE TAIL SHALL EXTEND 15 FEET INSIDE VAULT BEYOND KNOCKOUT POINT.

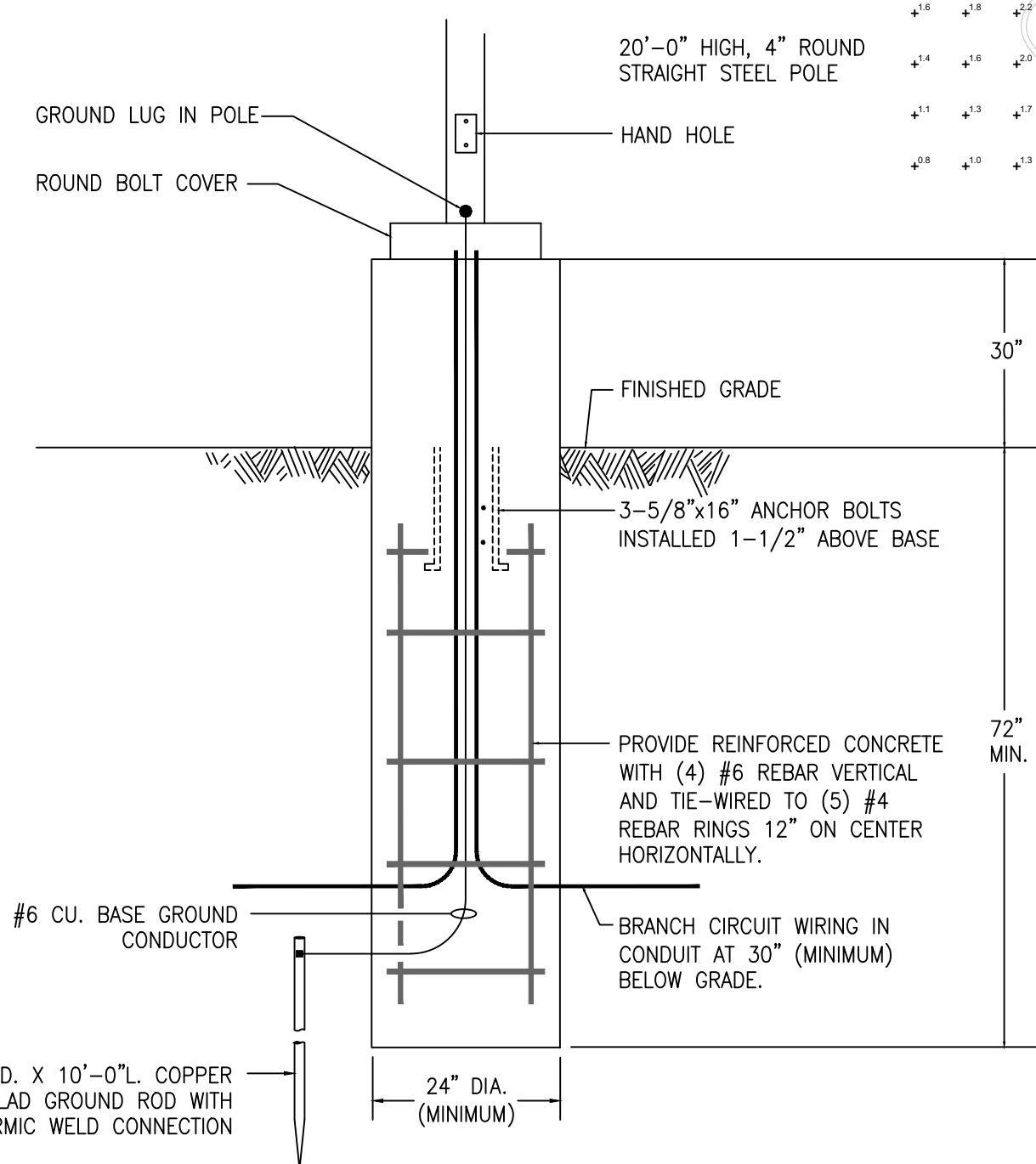
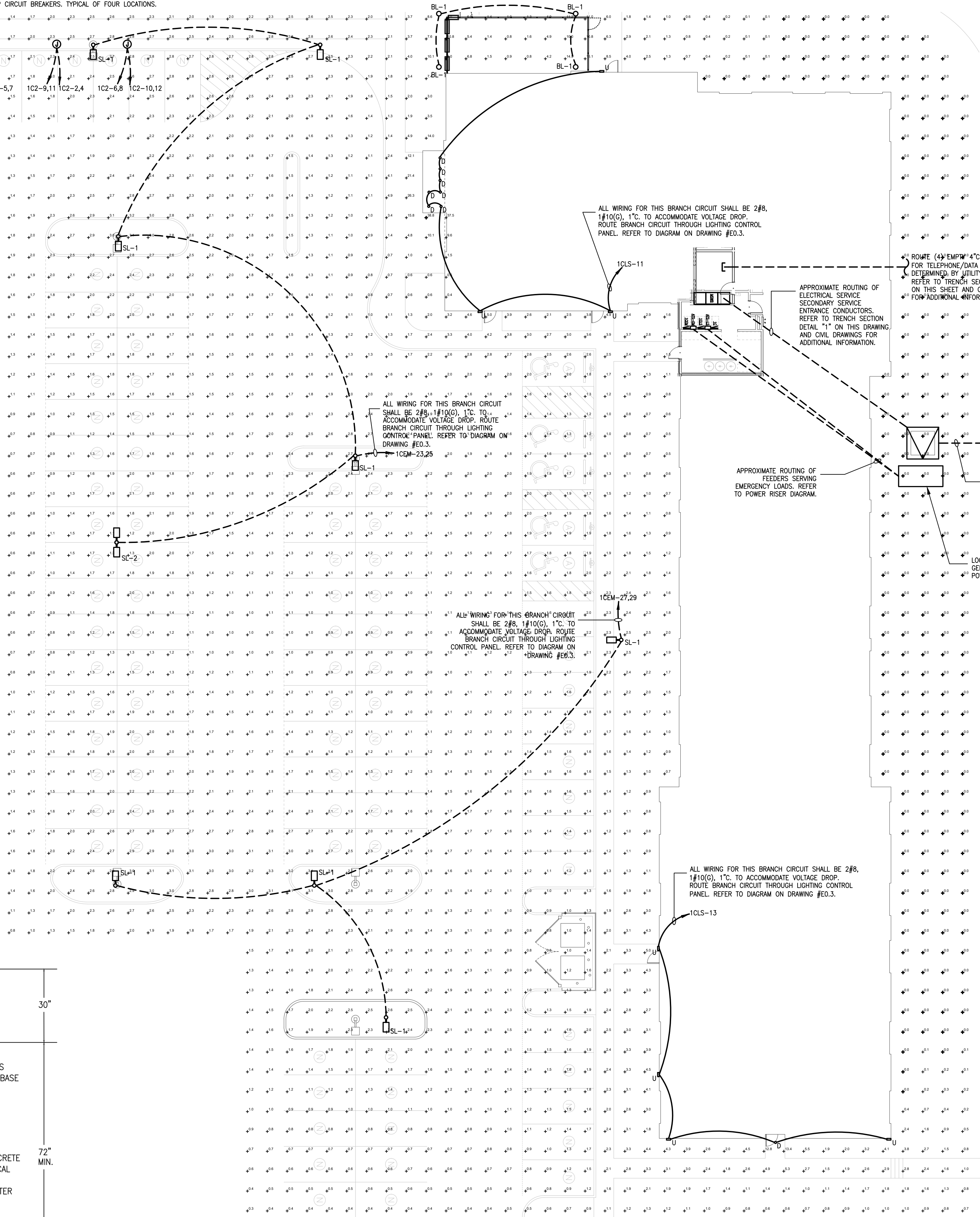
SITE LUMINAIRE SCHEDULE						
TYPE	LAMP	WATTAGE	VOLTAGE	DESCRIPTION	CATALOG NUMBER	REMARKS
SL-1	LED 4000K 11142 LM.	120	208	LED POLE MOUNTED FIXTURE MOUNTED ON 20'-0" POLE WITH FORWARD THROW LIGHT OPTICS.	LUMCA LIGHTING #CPL02XX-54LED07-120W-40K-L3FL-54-120	REFER TO POLE BASE DETAIL ON THIS DRAWING.
SL-2	LED 4000K 9910 LM.	120	208	LED POLE MOUNTED FIXTURE MOUNTED ON 20'-0" POLE WITH TYPE V LIGHT DISTRIBUTION.	LUMCA LIGHTING #CPL02XX-54LED07-120W-40K-L55-54-120	REFER TO POLE BASE DETAIL ON THIS DRAWING.
BL-1	LED 4000K 1500 LM.	20	120	LED BOLLARD FIXTURE 42" IN HEIGHT.	LITHONIA LIGHTING #KBAB-16C-350-40K-SYM-MVOLT-XXXXX	-
D	LED 3000K 3500L	35	120	LED 6" DOWNLIGHT FOR USE IN EXTERIOR CANOPIES.	LITHONIA LIGHTING #LDN6-30/30-L06-AR-LD-TRW-MVOLT-GZ10	-
U	LED 3000K 3000L	25	120	LED WALL MOUNTED SCONCE WITH FORWARD THROW OPTICS.	LITHONIA LIGHTING #WPK1-LED-P2-40K-MVOLT	MOUNT AT 13'-0" ABOVE GRADE.

LUMINAIRE SCHEDULE GENERAL NOTES:

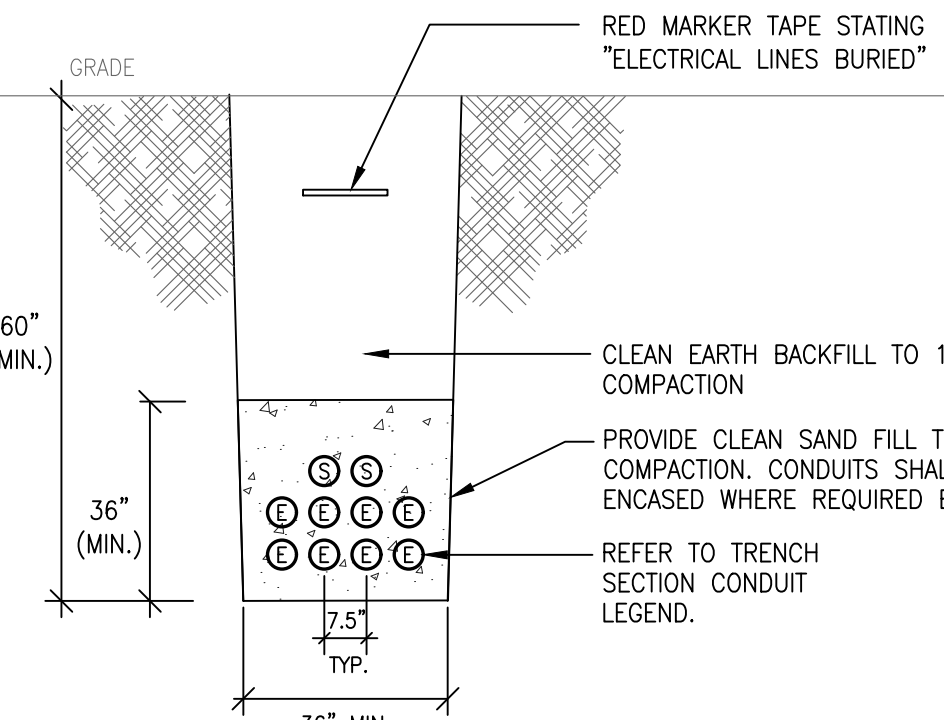
- VERIFY ALL LUMINAIRE COLORS, TRIMS, LENGTHS, ETC. WITH THE ARCHITECT PRIOR TO PLACING FINAL PURCHASE ORDERS. SUBMISSION OF SHOP DRAWINGS WILL BE INTERPRETED AS HAVING BEEN COORDINATED WITH THE ARCHITECTURAL DRAWINGS.
- PROVIDE ALL LENGTHS, FEEDS, ACCESSORIES, CONNECTORS, WIRING, POWER SUPPLIES, DRIVERS, ETC. FOR A COMPLETE INSTALLATION. THE E.C. SHALL VERIFY THE COMPLETE BILL OF MATERIAL WITH MANUFACTURER'S REPRESENTATIVE AND INSURE ALL EQUIPMENT IS INCLUDED IN BID PRICE. COORDINATE INSTALLATION WITH ARCHITECTURAL DETAILS.
- VERIFY EXACT MOUNTING HEIGHT AND LOCATIONS OF ALL WALL MOUNTED AND PENDANT MOUNTED LUMINAIRES WITH ARCHITECTURAL PLANS AND ELEVATIONS PRIOR TO ROUGH-IN.
- ANY PROPOSED ALTERNATE LUMINAIRES SHALL BE APPROVED BY THE ARCHITECT PRIOR TO FINAL BID PRICING.
- SHOULD THE CONTRACTOR PROPOSE TO FURNISH MATERIALS, EQUIPMENT, AND DEVICES, OTHER THAN THOSE SPECIFIED AND LISTED, THE CONTRACTOR SHALL SUBMIT A WRITTEN REQUEST FOR SUBSTITUTIONS, TO THE ENGINEER AT LEAST TEN (10) BUSINESS DAYS PRIOR TO BID OPENING. THE REQUEST SHALL BE AN ALTERNATE TO THE ORIGINAL BID AND SHALL INCLUDE A COMPLETE SPECIFICATIONS OUT SHEET SUBMITTAL AS OUTLINED IN THE SPECIFICATIONS, COMPLETE WITH DESCRIPTIVE (MANUFACTURER, BRAND NAME, CATALOG NUMBER, ETC.) AND TECHNICAL DATA FOR ALL ITEMS. INDICATE ANY ADDITIONS OR DEDUCTIONS TO THE CONTRACT PRICE WITH THE SUBSTITUTION SUBMITTAL AND ON THE BID FORM.

LOCATION OF MONUMENT SIGNAGE. PROVIDE DEDICATED 20A-120V-1A BRANCH CIRCUIT. WIRING SHALL BE 2#8, 1#10(G), 1TC. (TO ACCOMMODATE VOLTAGE DROP) TO PANEL 1TC. CIRCUIT #23. ROUTE BRANCH CIRCUIT THROUGH EXTERIOR LIGHTING CONTROL PANEL. REFER TO DIAGRAM ON DRAWING #E0.3.

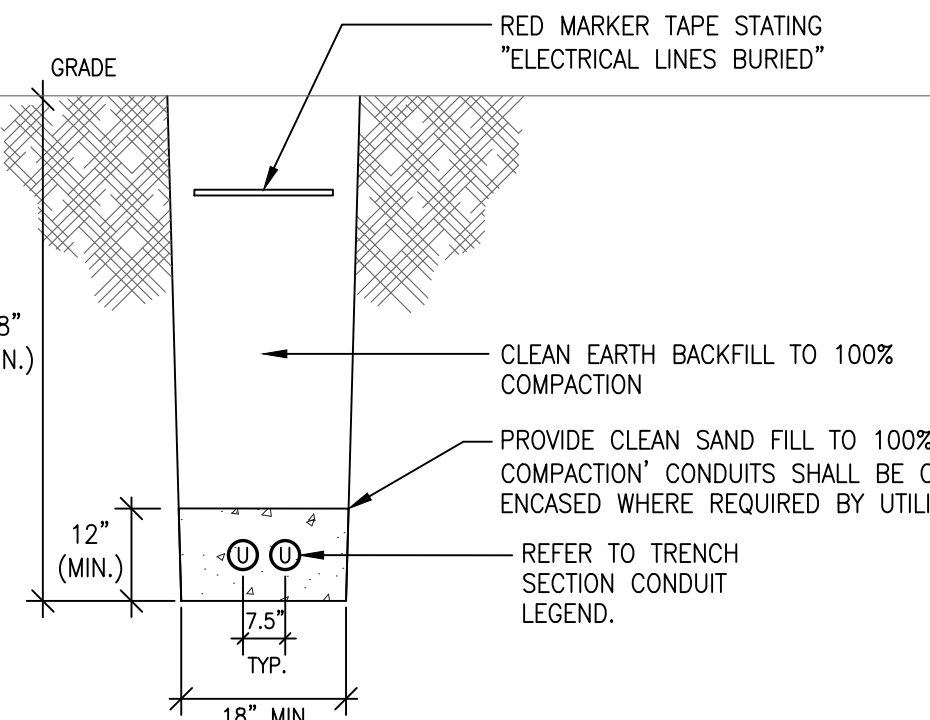
PROVIDE AN EXTERIOR RATED JUNCTION BOX IN GRADE FOR DUAL STATION EX CHARGING PEDESTAL AND MAKE FINAL HARDWIRED CONNECTIONS. COORDINATE ALL WORK AND SPECIFICATIONS WITH OWNERSHIP AND G.O. BASIS OF DESIGN IS SEMACONNECT SERIES 7. THE TWO BRANCH CIRCUITS SHALL BE 2#8, 1#10(G) IN THE SAME 2TC. TO ACCOUNT FOR VOLTAGE DROP AND DERATING FACTORS TO TWO 40A-2P CIRCUIT BREAKERS. TYPICAL OF FOUR LOCATIONS.



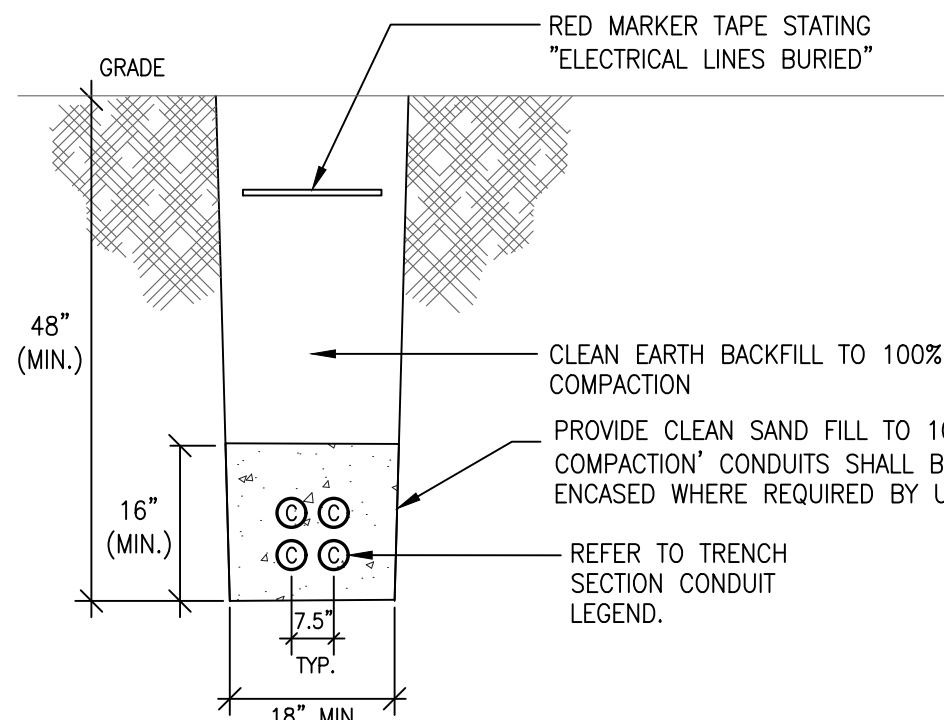
TYPICAL SITE LIGHT - POLE BASE DETAIL
NO SCALE



TYPICAL TRENCH SECTION DETAIL #1
NO SCALE



TYPICAL TRENCH SECTION DETAIL #2
NO SCALE



TYPICAL TRENCH SECTION DETAIL #3
NO SCALE

ELECTRICAL SITE/PHOTOMETRIC PLAN

1
ES.1
SCALE: 1/16" = 1'-0"

TRENCH SECTION CONDUIT LEGEND:

- "E" SECONDARY ELECTRICAL SERVICE ENTRANCE FEEDERS. IN 4TC. REFER TO POWER RISER DIAGRAM.
- "C" EMPTY 4" CONDUIT WITH PULLWIRE FOR COMMUNICATION WIRING BY OTHERS.
- "S" SPARE 4" CONDUIT W/ PULLWIRE.
- "U" EMPTY 5" CONDUIT WITH PULLWIRE FOR UTILITY PRIMARY CONDUCTORS. CONDUCTORS BY UTILITY.

1-26-24

GREGORY S. SUYK

REGISTERED

PE 1091112

STATE OF INDIANA

PROFESSIONAL ENGINEER

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ATWELL SUITES

AN IHG HOTEL

ERLEN DR. & MINDEN DR. FISHERS, INDIANA 46037 HAMILTON COUNTY

ELECTRICAL SITE/PHOTOMETRIC PLAN

ISSUE / REVISION DATE:

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09/19/2023 HIG FINAL REVIEW

11/17/2023 SAXONY DESIGN REVIEW 2

01/26/2024 FOR CONSTRUCTION

SMR Project No.

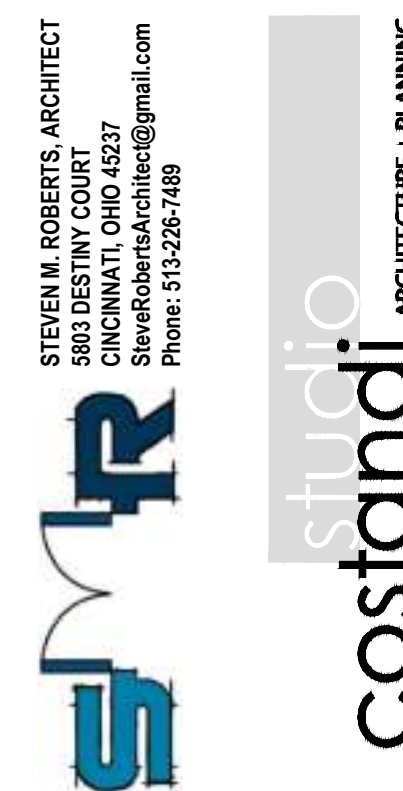
AWSFIN

ES.1

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ABV	ABOVE	ID	INSIDE DIAMETER
ACC	ACCESSIBLE	IE	INVERT ELEVATION
ADAG	AMERICANS WITH DISABILITIES ACT	IMP	INSULATED METAL PANEL
	ACCESSIBILITY GUIDELINES	INS	INSULATED (ED) (WV)
ADJ	ADJUSTABLE	INT	INTERIOR
AFB	ABOVE FINISH FLOOR	INV	INVERT
AFG	ABOVE FINISH GRADE	W	W INDUSTRIAL WASTE
AMA	AMERICAN INSTITUTE OF ARCHITECTS	JF	JOINT FILLER
AISC	AMERICAN INSTITUTE OF STEEL CONSTRUCTION	JT	JOINT
AL / ALUM	ALUMINUM	KD	KNOCK DOWN
	ALT ALTERNATE	KO	KNOCK OUT
APPROX	APPROXIMATE / APPROXIMATELY	LM	LAMINATED(D)
ASHRAE	AMERICAN SOCIETY OF HEATING REFRIGERATION, AND AIR CONDITIONING ENGINEERS	LAV	LAVATORY
		LLH	LONG LEGS HORIZONTAL
		LVH	LONG LEG VERTICAL
ASTM	AMERICAN SOCIETY FOR TESTING MATERIALS	MS	MASSTRY
ACT	ACUSTIC CEILING TILE	MAX	MAXIMUM
AWG	AMERICAN WIRE GAUGE	MECH	MECHANICAL()
BD	BOARD	MEP	MECHANICAL / ELECTRICAL / PLUMBING
BEG	BELOW FINISH FLOOR	MEZZ	MEZZANINE
BFG	BELOW FINISH GRADE	MFR	MANUFACTURER
BLKG	BLOCKING	MFG	MANUFACTURING
BLDG	BUILDING	MH	MANHOLE
BOT	BOTTOM	MIN	MINIMUM
B/	BOTTOM OF	MISC	MISCELLANEOUS
BRG	BEARING	MO	MASONRY OPENING
CB	CATCH BASIN	N	NORTH
CFM	CUBIC FEET PER MINUTE (AIR)	NIC	NIC NOT IN CONTRACT
CJ	CJ CAST IRON	Nr	Nr # OF NUMBER
CT	CONTROL JOINT	NOM	NOMINAL
CLG	CEILING	NOT	NOT TO SCALE
CLR	CLEARANCE()	OC	ON CENTER
CL	CENTER LINE	OD	OUTSIDE DIAMETER
CMU	CONCRETE MASONRY UNIT	OHE	OVERHEAD ELECTRIC (SERVICE)
CO	CLEAN OUT	OHT	OVERHEAD TELEPHONE (SERVICE)
COL	COLUMN	OSP	OPPOSITE
CONC	CONCRETE	OPG	OPENING
CONST	CONSTRUCTION	PEMB	PER-ENGINEERED METAL BUILDING
CONT	CONTINUOUS	PL	PROPERTY LINE
CONTR	CONTRACTOR	PLAM	PLASTIC LAMINATE
		PLWD	PLYWOOD
CSI	CANADIAN SPECIFICATIONS INSTITUTE	PSF	POUNDS PER SQUARE FOOT
CT	CERAMIC TILE	PSI	POUNDS PER SQUARE INCH
CY	CUBIC YARD	PT	PRESSURE TREAT
DF	DRINKING FOUNTAIN	PVC	POLYVINYL CHLORIDE
DIA	DIAMETER	PMI	PAVEMENT
DM	DIMENSION	RA	RETURN AIR
DS	DOWNSPOUT	R	RADIUS
DTL	DETAIL	RR	RAILROAD
DWS	DRAIN	REF	REFRIGERATE() (ED) (WV)
E	EACH	REQD	REQUIRED
EF	EXHAUST FAN	RD	ROOF DRAIN
EP	EXPANSION JOINT	RM	ROOM
ELEV	ELEVATION	RND	ROUND
ELEC	ELECTRICAL()	RO	ROUGH OPENING
EMER	EMERGENCY	RW	RIGHT OF WAY
EQ	EQUAL	SAN	SANITARY (WASTE LINE)
EQU	EQUIPMENT	SCH	SCHEDULE
EW	EACH WAY	SF	SQUARE FEET
EW	ELECTRIC WATER COOLER	SHT	SHEET
EXIST / EX	EXISTING	SI	SQUARE INCHES
EXP	EXPANSION	SM	SIMILAR
EXT	EXTERIOR	SPEC(S)	SPECIFICATIONS()
FF	FLOOR DRAIN	SQ	SQUARE
FE	FIRE EXTINGUISHER	SS	STAINLESS STEEL
FEC	FIRE EXTINGUISHER CABINET	ST	STEEL (WATER LINE)
FF	FINISH FLOOR	STD	STANDARD
FI	FIRE HYDRANT	STL	STL
FIN	FINISHED()	T&B	TOP AND BOTTOM
FI	FLOOR	T&G	TONGUE AND GROOVE
FND / FND	FOUNDATION	TEL	TELEPHONE
FOF	FACE OF FINISH	THK	THICK (THICKNESS)
FM	FEET PER MINUTE	T/	T/ TOP OF
FRT	FIRE RETARDANT TREATED	TYP	TYPICAL
FRR	FIBERGLASS REINFORCED PLASTIC	UG	UNDERGROUND ELECTRIC (SERVICE)
FTG	FOOTING	UGT	UNDERGROUND TELEPHONE (SERVICE)
FTU	FOOT CUBE	UN	UNDERWRITERS LABORATORY
G	GAUGE	UNL	UNLESS NOTED OTHERWISE
GAL	GALLON	UR	URINAL
GALV	GALVANIZED()	VERT	VERTICAL
GC	GENERAL CONTRACTOR	VCT	VINYL COMPOSITION TILES
GYP	GYPSSUM	VF	VF INVERT IN FIELD
HB	HOSSE DIBB	WC	WATER CLOSET (TOILET)
HC	HANDICAP	WCO	WALL CLEAN OUT
HGT	HEIGHT	WD	WOOD
HM	HOLLOW METAL	WH	WATER HEATER
HOR	HORIZONTAL	WP	WATER PROOF / WATER PROOF
HVAC	HEATING, VENTILATION, AIR CONDITIONING	WWF	WELDED WIRE FABRIC



ERLEN DR. & MINDEN DR. FISHERS, INDIANA 46037 HAMILTON COUNTY

NOTES: INDIANA FIRE CODE / IFC 2014

SECTION 904.11.5 PORTABLE FIRE EXTINGUISHERS SHALL BE PROVIDED WITHIN A 30-FOOT TRAVEL DISTANCE OF COMMERCIAL-TYPE COOKING EQUIPMENT. COOKING EQUIPMENT INVOLVING SOLID FUELS OR VEGETABLE OR ANIMAL OILS AND FAT SHALL BE PROTECTED BY A GLASS-KRATED PORTABLE EXTINGUISHER.

SECTION 906.3.5 SIZE AND DISTRIBUTION. THE SIZE AND DISTRIBUTION OF PORTABLE FIRE EXTINGUISHERS SHALL BE IN ACCORDANCE WITH TABLE 906.3(1).

PORTABLE FIRE EXTINGUISHERS SHALL BE LOCATED IN CONSPICUOUS LOCATIONS WHERE THEY WILL BE READILY ACCESSIBLE AND IMMEDIATELY AVAILABLE FOR USE. THE TRAVEL DISTANCE LIMITATION OF 75 FEET IS INTENDED TO BE THE ACTUAL WALKING DISTANCE ALONG A NORMAL PATH OF TRAVEL TO THE EXTINGUISHER.

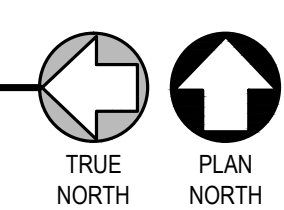
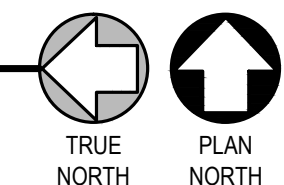
FIRE RESISTANCE RATING REQUIREMENTS FOR BUILDING ELEMENTS (TABLE 601):	
BUILDING ELEMENT	FIRE RATING
CONSTRUCTION TYPE IV A (S4)	
STRUCTURAL FRAME	1-HOUR
BEARING WALLS (EXTERIOR)	1-HOUR
BEARING WALLS (INTERIOR)	1-HOUR
NONBEARING WALLS AND PARTITIONS (EXTERIOR)	REFER TO TABLE 602 BELOW
NON BEARING WALLS AND PARTITIONS (INTERIOR)	NONE REQUIRED
FLOOR CONSTRUCTION	1-HOUR
ROOF CONSTRUCTION	1-HOUR

FIRE RESISTANCE RATING REQUIREMENTS FOR EXTERIOR WALLS (TABLE 602):		
FIRE SEPARATION DISTANCE	TYPE OF CONSTRUCTION	FIRE RESISTANCE RATING
OCCUPANCY GROUPS A, B, R, S-2 LESS THAN 15 FEET	ALL	1 HOUR
	1A	1 HOUR
	1B	1 HOUR
5 FEET TO LESS THAN 10 FEET	1A	1 HOUR
	1B	1 HOUR
	2B, 5B	NONE
10 FEET TO LESS THAN 30 FEET	ALL	NONE
	OTHERS	NONE
30 FEET AND GREATER	ALL	NONE
	OTHERS	NONE

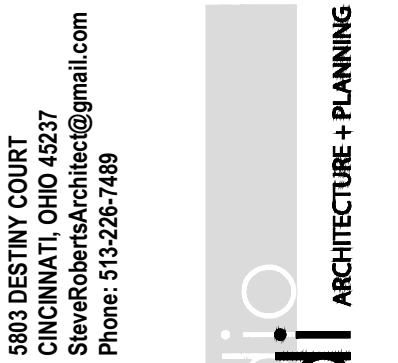
ISSUE / REVISION DATE:	
05/04/2022	OWNER REVIEW
06/23/2022	OWNER REVIEW
08/04/2022	PRELIMINARY REVIEW
01/13/2023	FRANCHISE REVIEW
04/21/2023	FRANCHISE REVIEW
05/17/2023	SAXONY DESIGN REVIEW
● 09/19/2023	IHG FINAL REVIEW
● 11/17/2023	SAXONY DESIGN REVIEW
● 01/26/2024	FOR CONSTRUCTION

SMR Project No. **AWSFIN**

BC1.2



SCALE: 1/8" = 1'-0"

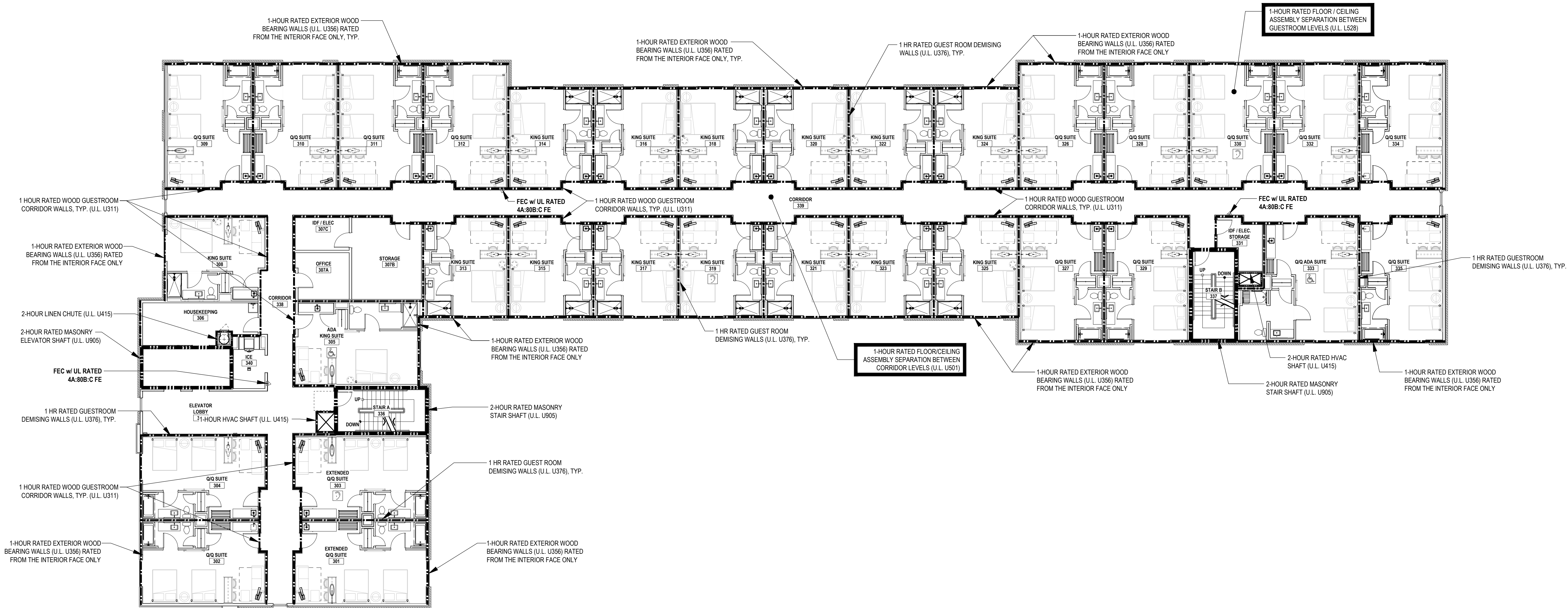


FIRE RATING PLANS:

REVISION DATE:	
05/04/2022	OWNER REVIEW
06/23/2022	OWNER REVIEW
08/04/2022	PRELIMINARY REVIEW
11/13/2023	FRANCHISE REVIEW
04/21/2023	FRANCHISE REVIEW
05/17/2023	SAXONY DESIGN REVIEW 1
09/19/2023	IHG FINAL REVIEW
1/17/2023	SAXONY DESIGN REVIEW 2
11/26/2024	FOR CONSTRUCTION

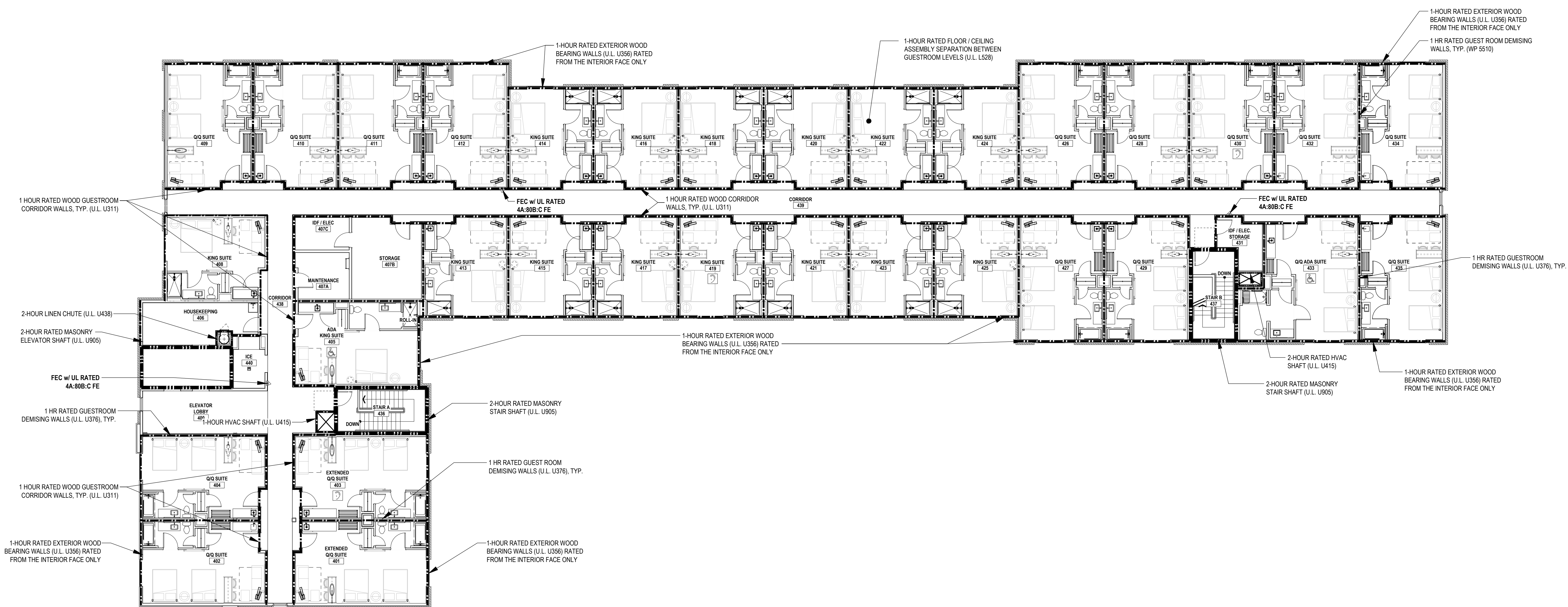
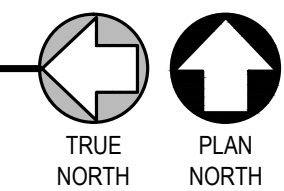
R Project No. **AWSFIN**

BC1.3



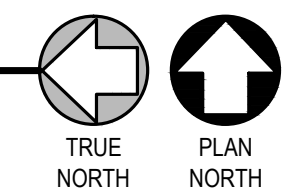
OVERALL THIRD FLOOR FIRE RATING PLAN

SCALE: 1/8" = 1'-0"



OVERALL FOURTH FLOOR FIRE RATING PLAN

SCALE: 1/8" = 1'-0"



 2 HOUR FIRE RATED BARRIER

1 HOUR FIRE RATED BARRIER

NOTES: OHIO FIRE CODE / IFC 2015

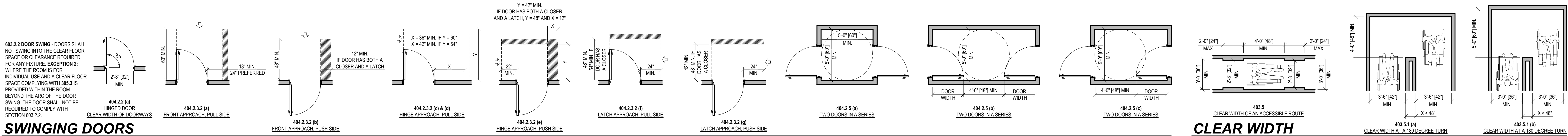
SECTION 904.12.5 PORTABLE FIRE EXTINGUISHERS SHALL BE PROVIDED WITHIN A 30-FOOT TRAVEL DISTANCE OF COMMERCIAL-TYPE COOKING EQUIPMENT

SECTION 906.3 SIZE AND DISTRIBUTION. THE SIZE AND DISTRIBUTION OF PORTABLE FIRE EXTINGUISHERS SHALL BE IN ACCORDANCE WITH TABLE 906.3(1).

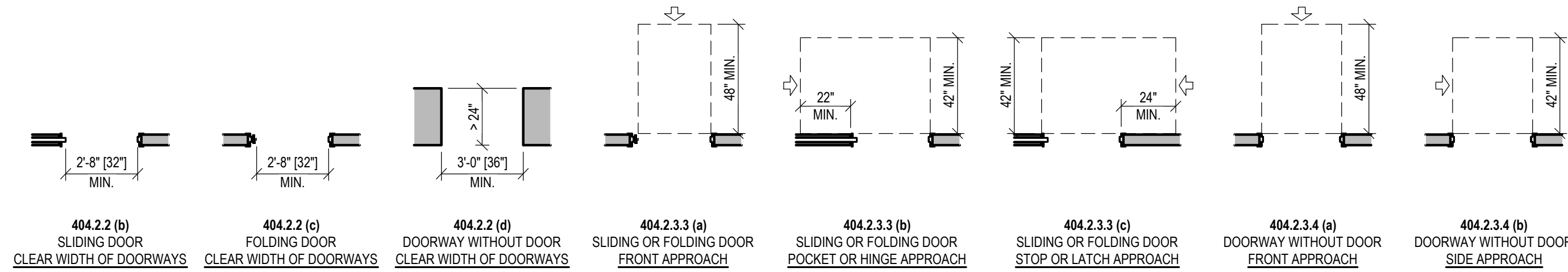
THE TRAVEL DISTANCE LIMITATION OF 75 FEET IS INTENDED TO BE THE ACTUAL WALKING DISTANCE ALONG A NORMAL PATH OF TRAVEL TO THE EXTINGUISHER.

BUILDING ELEMENT	FIRE RATING
CONSTRUCTION TYPE VA (5 A)	
STRUCTURAL FRAME	1-HOUR
BEARING WALLS (EXTERIOR)	1-HOUR
BEARING WALLS (INTERIOR)	1-HOUR
NONBEARING WALLS AND PARTITIONS (EXTERIOR)	REFER TO TABLE 602 BELOW
NON BEARING WALLS AND PARTITIONS (INTERIOR)	NONE REQUIRED
FLOOR CONSTRUCTION	1-HOUR
ROOF CONSTRUCTION	1-HOUR

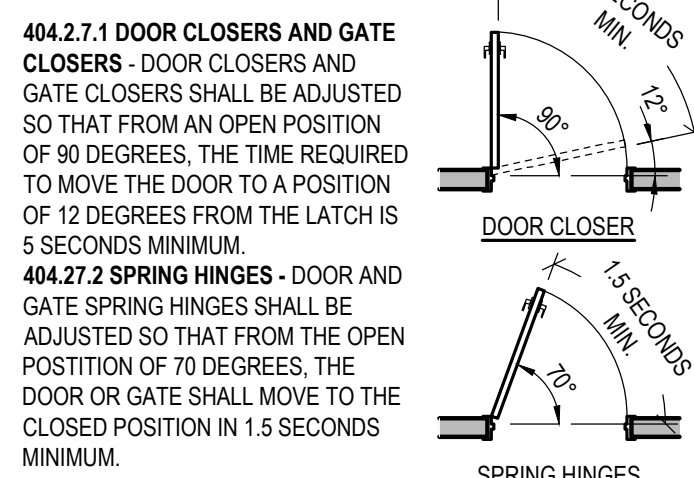
FIRE SEPARATION DISTANCE			TYPE OF CONSTRUCTION	FIRE RESISTANCE RATING
OCCUPANCY GROUPS A, B, R, S-2				
0 FEET TO LESS THAN 5 FEET		ALL		1 HOUR
5 FEET TO LESS THAN 10 FEET		1A		1 HOUR
		OTHERS		1 HOUR
10 FEET TO LESS THAN 30 FEET		1A, 1B		1 HOUR
		2B, 5B		NONE
		OTHERS		1 HOUR
30 FEET AND GREATER		ALL		NONE



SWINGING DOORS

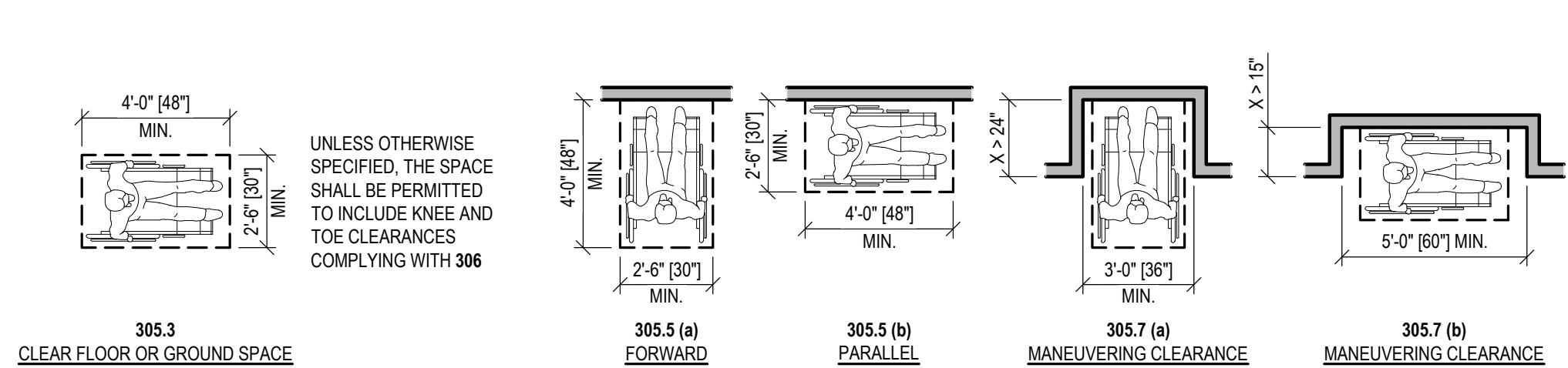


SLIDING, FOLDING, OR DOORWAYS WITHOUT A DOOR

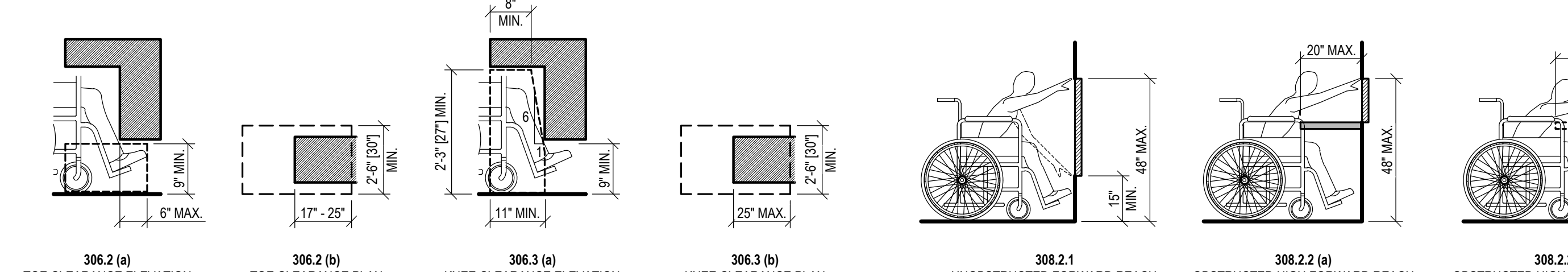


CLOSING SPEED

FLOOR SURFACES

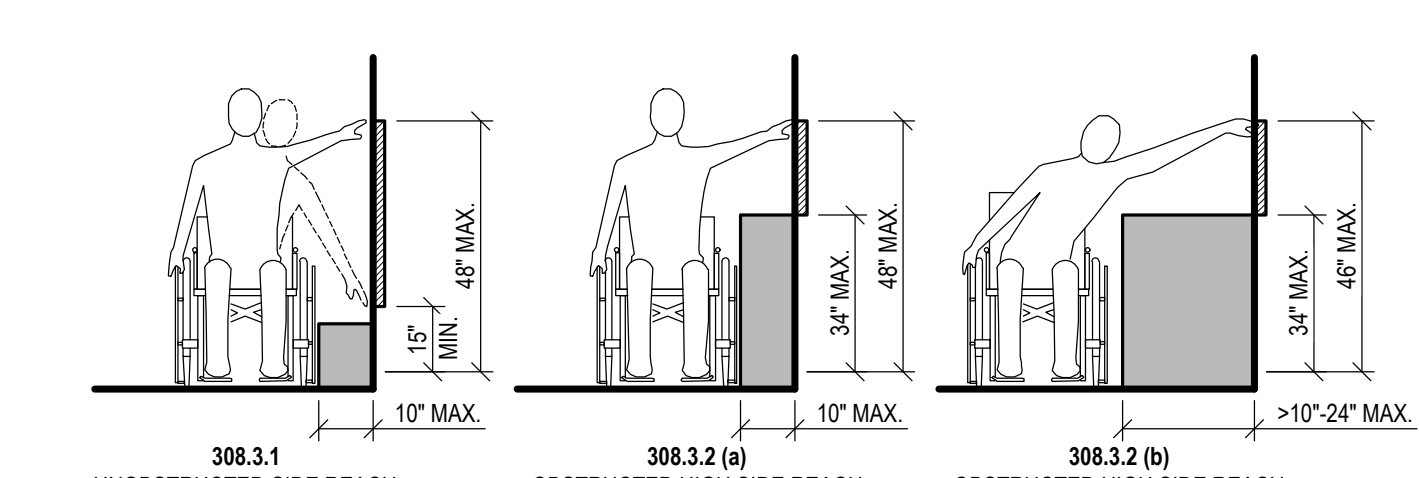


CLEAR FLOOR SPACE



KNEE AND TOE CLEARANCES

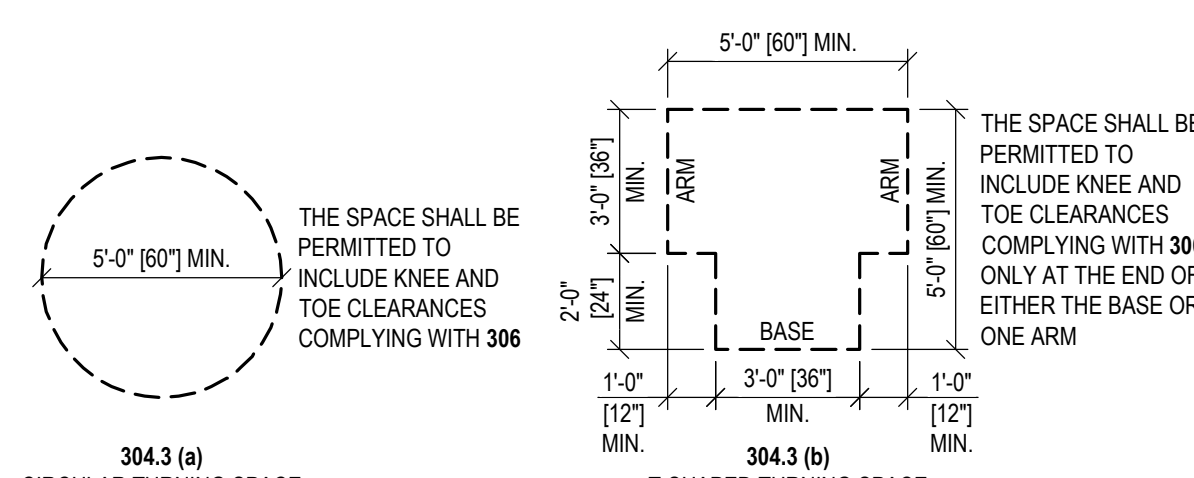
FORWARD REACH



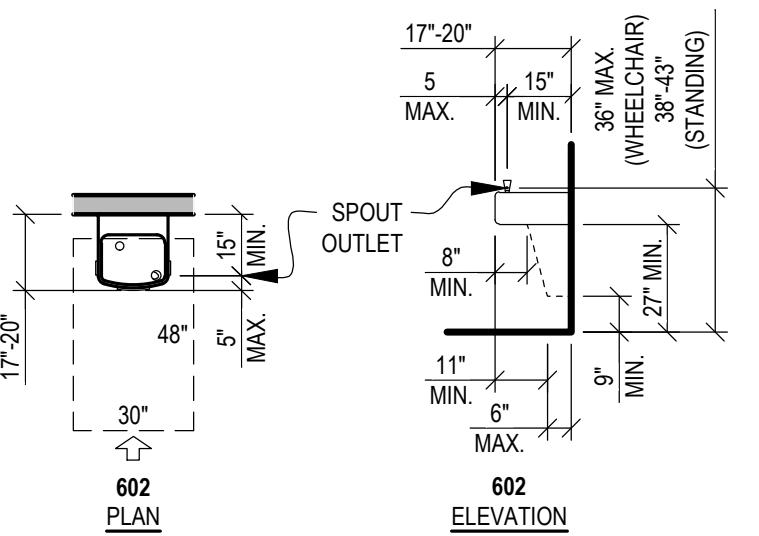
SIDE REACH

ACCESSIBILITY REQUIREMENTS

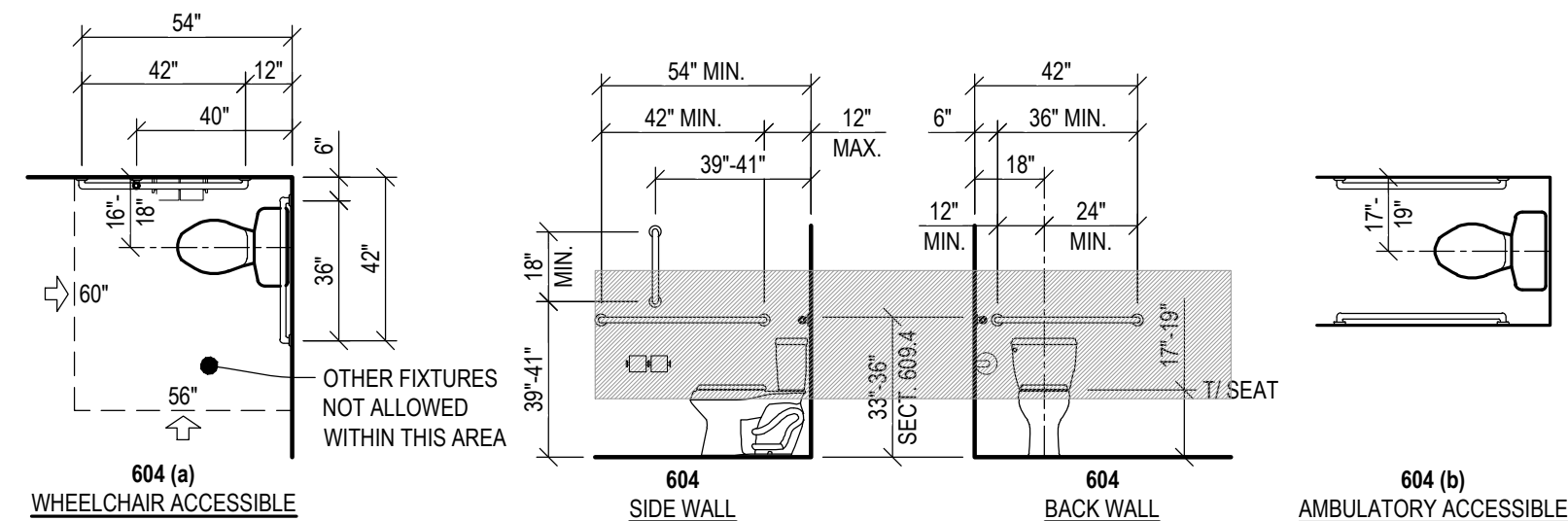
- (ACCESSIBLE AND USABLE BUILDINGS AND FACILITIES, ICC/ANSI A117-1:2009)
- A. ALL VERTICAL DIMENSIONS TO HORIZONTAL GRAB BARS ARE TO THE TOP OF THE GRIPPING SURFACE
- B. VERTICAL DIMENSIONS IN SHOWERS ARE FROM THE TOP OF THE SHOWER FLOOR



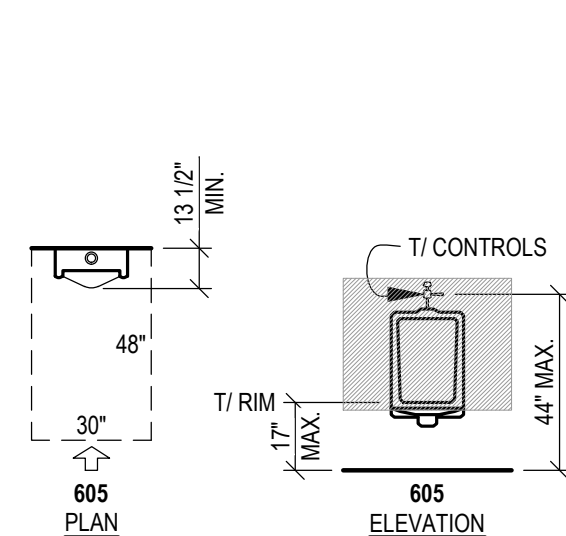
TURNING SPACE



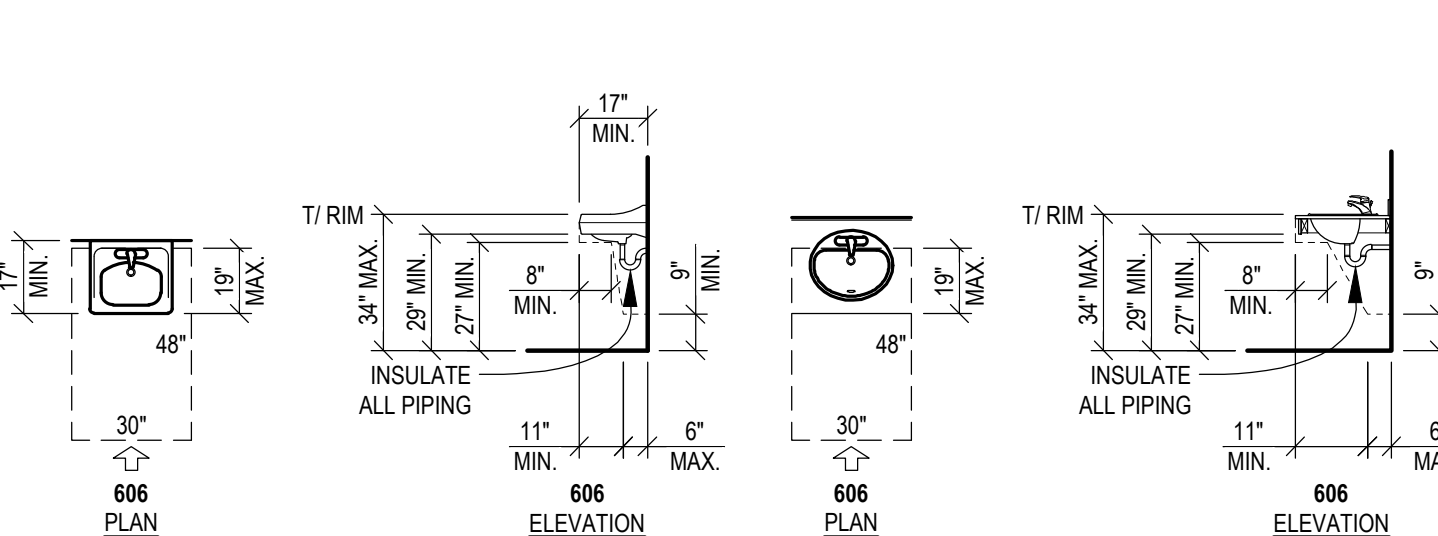
DRINKING FOUNTAINS



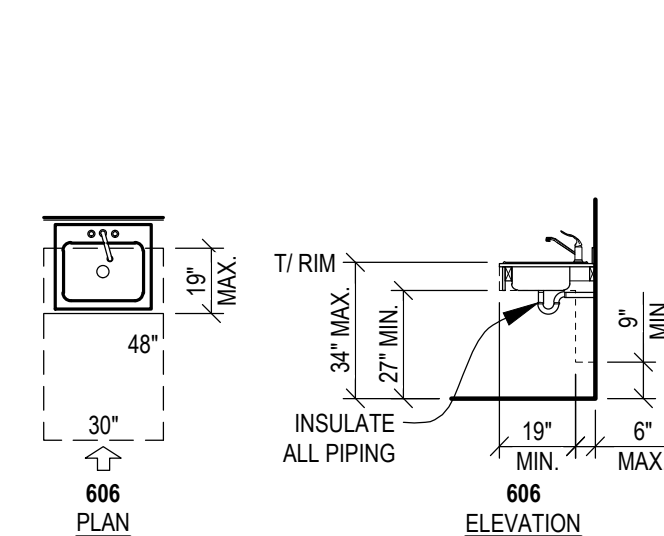
WATER CLOSETS



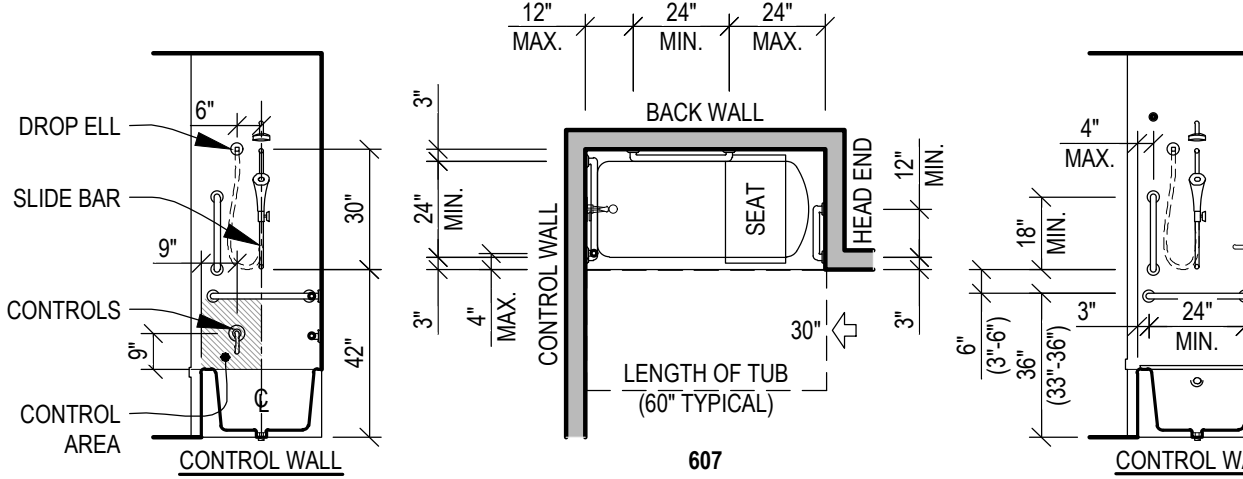
URINALS



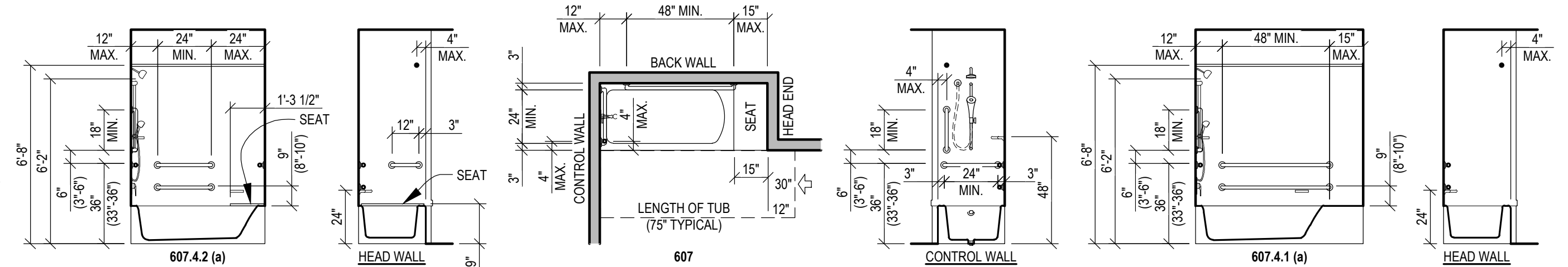
LAVATORIES



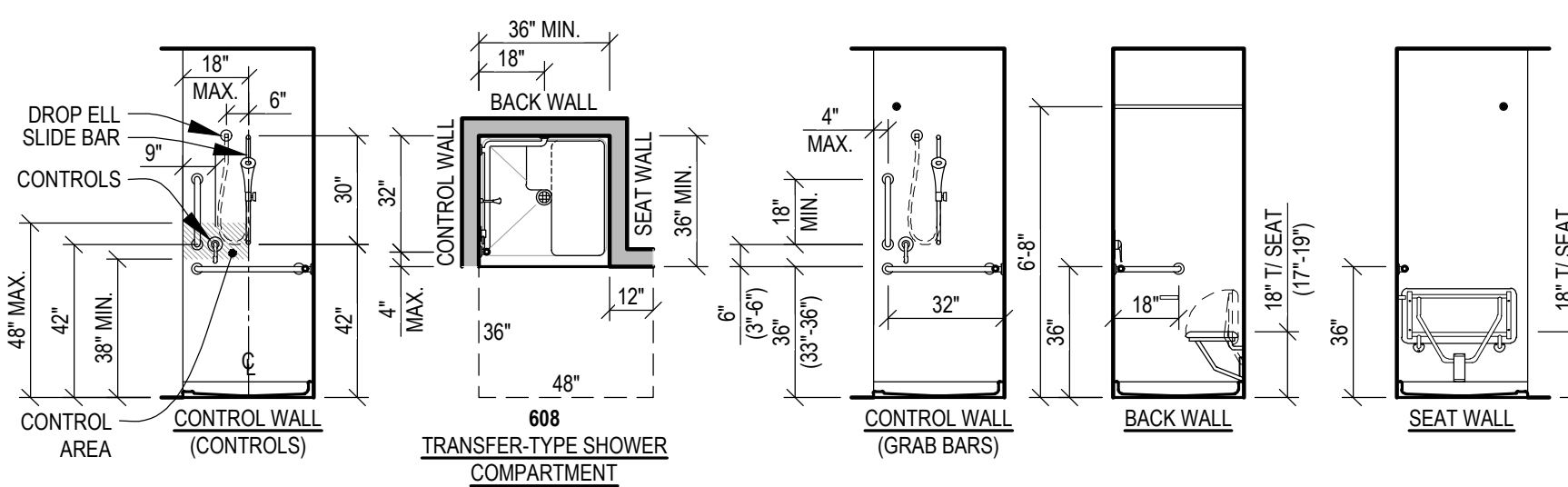
SINKS



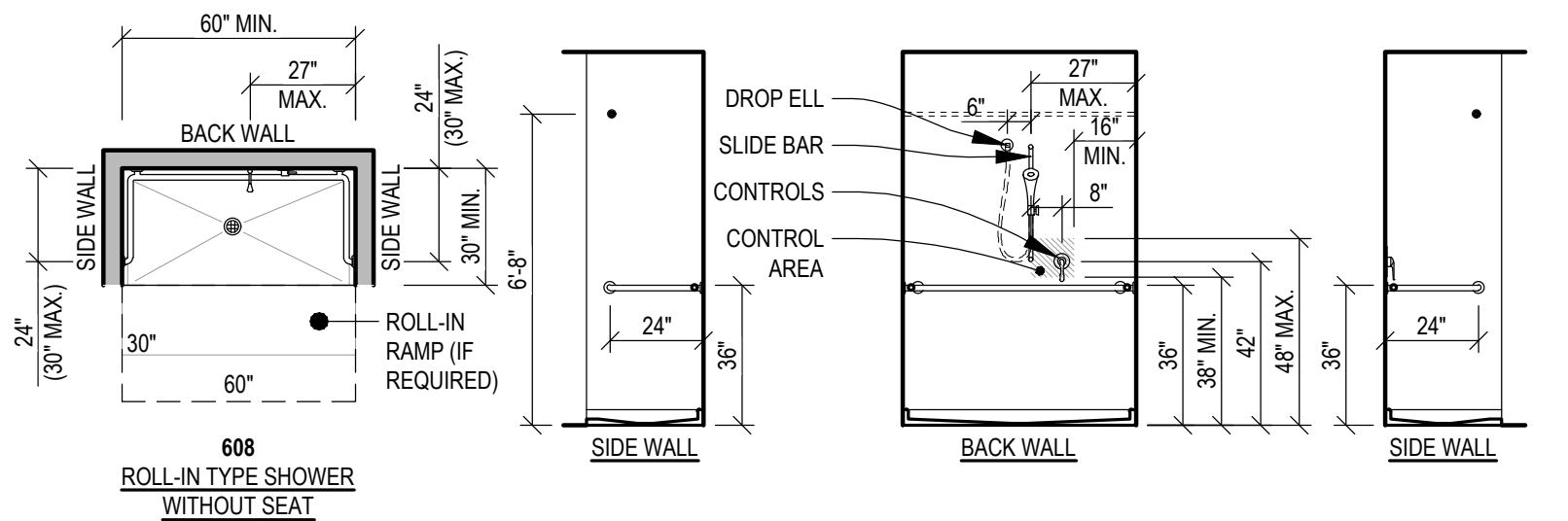
BATHTUBS



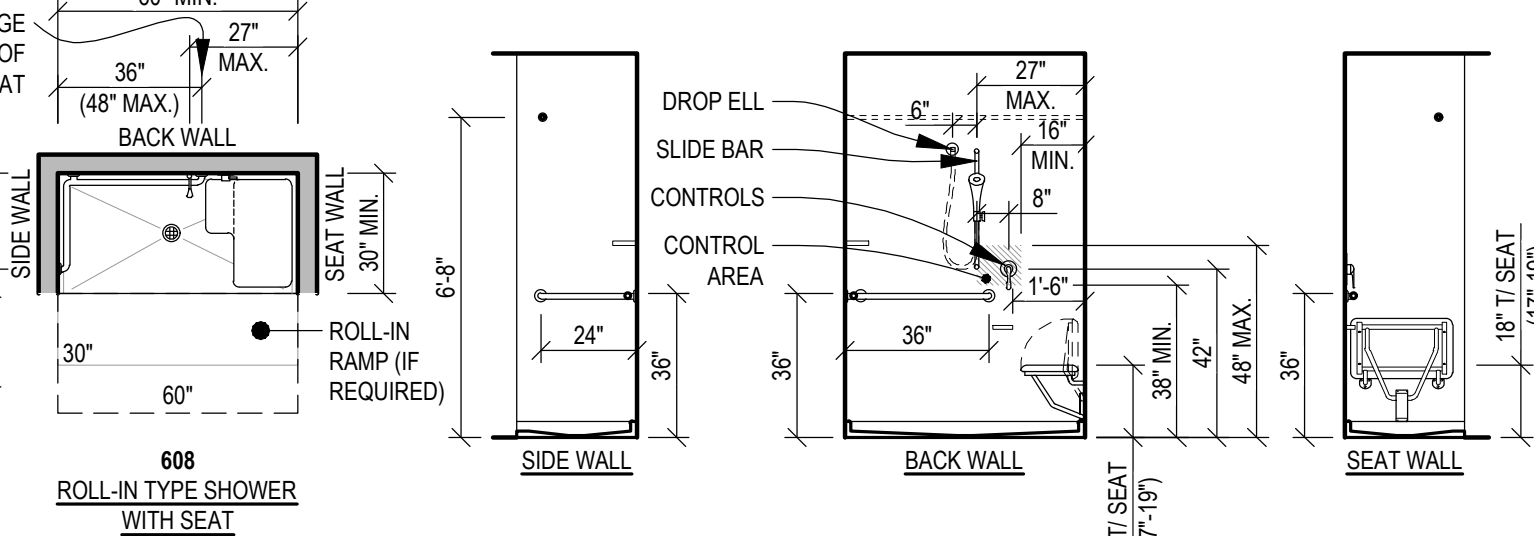
BATHTUB SEAT



36" x 36" SHOWERS



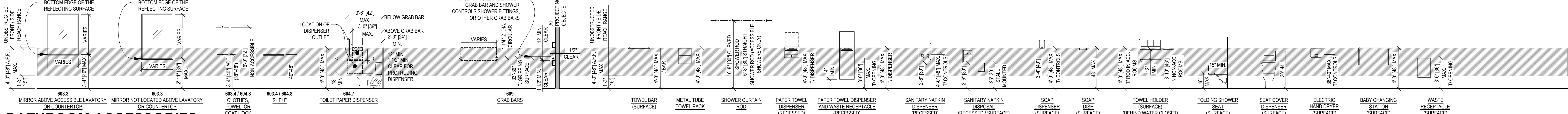
30" x 60" SHOWERS



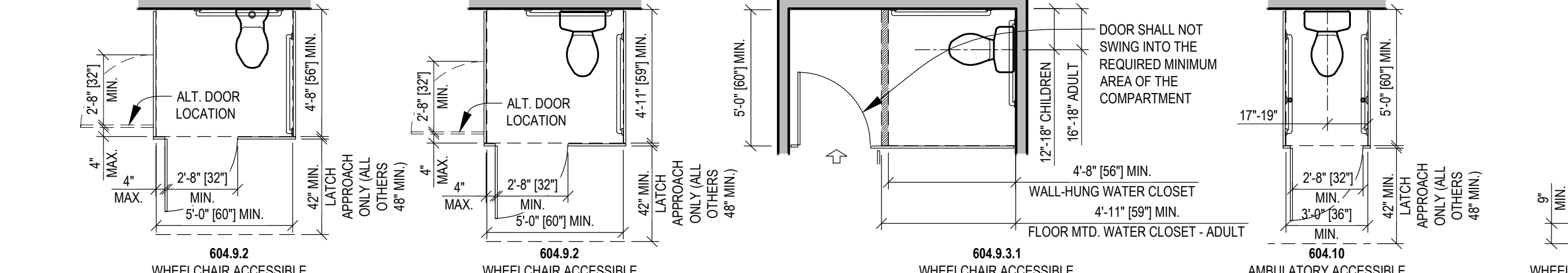
30" x 60" SHOWERS WITH SEATS



SHOWER SEAT



BATHROOM ACCESSORIES



TOILET COMPARTMENTS

ATWELL SUITES
AN IHG HOTEL
ERLEN DR. & MINDEN DR. FISHERS, INDIANA 46037 HAMILTON COUNTY

ACCESSIBILITY GUIDELINES

costandi ARCHITECTURE + PLANNING

STATE OF INDIANA
REGISTERED ARCHITECT
No. AR12100093
STEVEN MICHAEL COSTANDI
CINCINNATI, OHIO 45227
EXPIRATION DATE 12/31/2024

ISSUE / REVISION DATE:
05/04/2022 OWNER REVIEW
06/23/2022 OWNER REVIEW
08/04/2022 PRELIMINARY REVIEW
01/13/2023 FRANCHISE REVIEW
04/21/2023 FRANCHISE REVIEW
05/17/2023 SAVONY DESIGN REVIEW 1
09/19/2023 HS FINAL REVIEW
11/17/2023 SAVONY DESIGN REVIEW 2
01/26/2024 FOR CONSTRUCTION

SMR Project No. AWSFIN

BC1.4

Page 32 of 292

FIRE-RESISTANCE DESIGN

Assembly Usage Disclaimer

BXUV - Fire Resistance Ratings - ANSI/UL 263 Certified for United States
BXUV7 - Fire Resistance Ratings - CAN/ULC-S101 Certified for Canada

See General Information for Fire-resistance Ratings - ANSI/UL 263 Certified for United States Design Criteria and Allowable Variances

See General Information for Fire Resistance Ratings - CAN/ULC-S101 Certified for Canada Design Criteria and Allowable Variances

Design No. U311

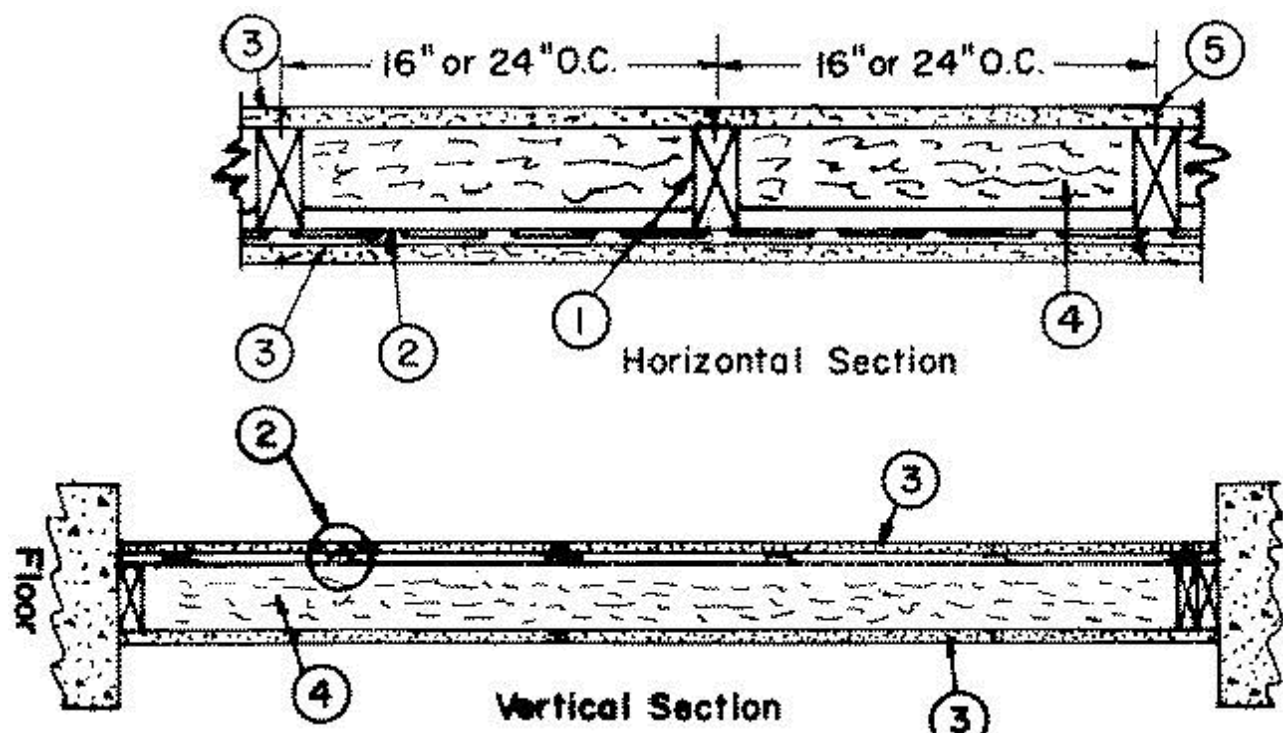
July 11, 2018

Bearing Wall Rating — 1 HR.

Finish Rating — 23 Min.

This design was evaluated using a load design method other than the Limit States Design Method (e.g., Working Stress Design Method). For jurisdictions employing the Limit States Design Method, such as Canada, a load restriction factor shall be used — See Guide BXUV or BXUV7

* Indicates such products shall bear the UL or cUL Certification Mark for jurisdictions employing the UL or cUL Certification (such as Canada), respectively.



1. Wood Studs — Nom 2 by 4 in., spaced 16 or 24. OC. Effectively cross braced.
2. Resilient Channel — 25 MSG galv steel. Resilient channels spaced vertically 24 in. OC, flange portion screw attached to one side of studs with 1-1/4 in. long Type V coarse thread gypsum panel steel screws.

2A. Steel Framing Members* — (Optional, Not Shown) — As an alternate to Item 2, furring channels and Steel Framing Members as described below:

- a. Furring Channels — Formed of No. 25 MSG galv steel. 2-9/16 in. or 2-23/32 in. wide by 7/8 in. deep, spaced 24 in. OC perpendicular to studs. Channels secured to studs as described in Item b. Ends of adjoining channels are overlapped 6 in. and tied together with double strand of No. 18 SWG galv steel wire near each end of overlap. As an alternate, ends of adjoining channels may be overlapped 6 in. and secured together with two self-tapping #6 framing screws, min. 7/16 in. long at the midpoint of the overlap, with one screw on each flange of the channel.
- b. Steel Framing Members* — Used to attach furring channels (Item a) to studs (Item 1). Clips spaced 48 in. OC. and secured to studs with No. 8 x 2-1/2 in. coarse drywall screw through the center grommet. Furring channels are friction fitted into clips. RSIC-1 clip for use with 2-9/16 in. wide furring channels. RSIC-1 (2.75) clip for use with 2-23/32 in. wide furring channels. PAC INTERNATIONAL L L C — Types RSIC-1, RSIC-1 (2.75).

2B. Steel Framing Members* — Furring channels and Steel Framing Members as described below:

- a. Furring Channels — Formed of No. 25 MSG galv steel. 2-3/8 in. wide by 7/8 in. deep, spaced 24 in. OC perpendicular to studs. Channels secured to studs as described in Item b. Ends of adjoining channels are overlapped 6 in. and tied together with double strand of No. 18 SWG galv steel wire near each end of overlap. As an alternate, ends of adjoining channels may be overlapped 6 in. and secured together with two self-tapping #6 framing screws, min. 7/16 in. long at the midpoint of the overlap, with one screw on each flange of the channel. Gypsum board attached to furring channels as described in Item 3.
- b. Steel Framing Members* — Used to attach furring channels (Item a) to studs. Clips spaced 48 in. OC. Genie clips secured to studs with No. 8 x 1-1/2 in. coarse drywall screw through the center hole. Furring channels are friction fitted into clips. PLITEQ INC — Type Genie Clip

2C. Steel Framing Members* — (Optional, Not Shown) — Furring channels and Steel Framing Members as described below:

- a. Furring Channels — Formed of No. 25 MSG galv steel. Spaced 24 in. OC perpendicular to studs. Channels secured to studs as described in Item b. Ends of adjoining channels overlapped 6 in. and tied together with double strand of No. 18 AVG galvanized steel wire. Gypsum board attached to furring channels as described in Item 3.
- b. Steel Framing Members* — Used to attach furring channels (Item 2Ca) to studs. Clips spaced 48 in. OC., and secured to studs with 2 in. coarse drywall screw with 1 in. diam washer through the center hole. Furring channels are friction fitted into clips. STUOCO BUILDING SYSTEMS — RESILMOUNT Sound Isolation Clips — Type A237R

U.L. U311

REFER TO FULL UL PRODUCT ASSEMBLY SPECIFICATION BOOK or WEB SITE FOR COMPLETE INFORMATION

FIRE-RESISTANCE DESIGN

Assembly Usage Disclaimer

BXUV - Fire Resistance Ratings - ANSI/UL 263 Certified for United States
BXUV7 - Fire Resistance Ratings - CAN/ULC-S101 Certified for Canada

See General Information for Fire-resistance Ratings - ANSI/UL 263 Certified for United States Design Criteria and Allowable Variances

See General Information for Fire Resistance Ratings - CAN/ULC-S101 Certified for Canada Design Criteria and Allowable Variances

Design No. U356

July 11, 2018

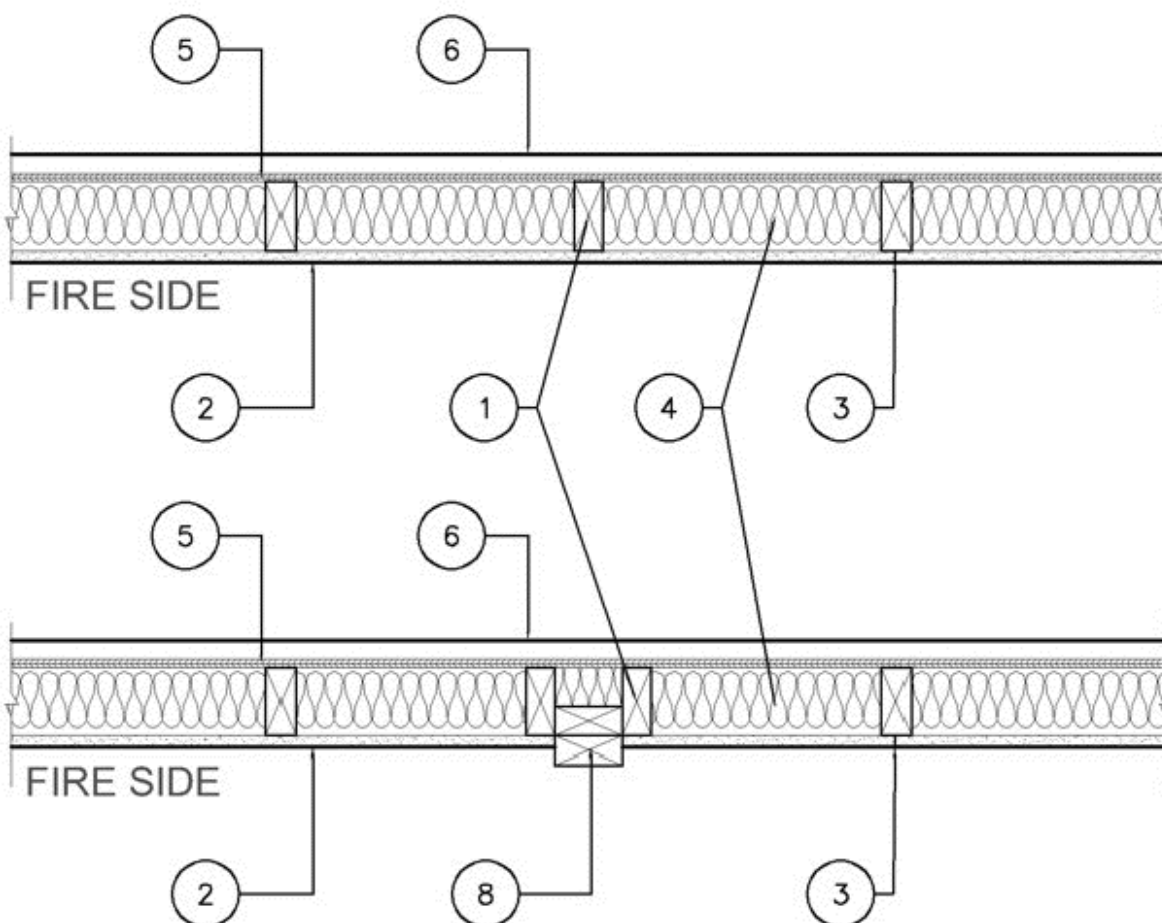
Bearing Wall Rating - 1 Hr Rating Exposed to Fire on Interior Face Only

Bearing Wall Rating — 1 Hr Rating Exposed to Fire on Exterior Face (See Item 6E)

Finish Rating — 23 Min or 25 Min (See Item 2C)

This design was evaluated using a load design method other than the Limit States Design Method (e.g., Working Stress Design Method). For jurisdictions employing the Limit States Design Method, such as Canada, a load restriction factor shall be used — See Guide BXUV or BXUV7

* Indicates such products shall bear the UL or cUL Certification Mark for jurisdictions employing the UL or cUL Certification (such as Canada), respectively.



1. Wood Studs — Nom 2 by 4 in., spaced 16 in. OC with two 2 by 4 in. top and one 2 by 4 in. bottom plates. Studs laterally-braced by wood structural panel sheathing (Item 5). When Mineral and Fiber Boards* (Item 5A) are considered as bracing for the studs, the load is restricted to 76% of allowable axial load. Walls effectively fire stopped at top and bottom of wall.

2. Gypsum Board* — Any 5/8 in. thick UL Classified Gypsum Board that is eligible for use in Design Nos. L501, G512 or U305. Nom 5/8 in. thick, 4 ft wide, applied vertically and nailed to studs and bearing plates 7 in. OC with 6d cement-coated nails, 1-7/8 in. long with 1/4 in. diam head. When Item 7, 7B, 7C, 7D or 7E Steel Framing Members*, is used, gypsum panels attached to furring channels with 1 in. long Type S bugle-head steel screws spaced 12 in. OC.

When Item 7A Steel Framing Members*, is used, two layers of gypsum panels attached to furring channels. Base layer attached to furring channels with 1 in. long Type S bugle-head steel screws spaced 12 in. OC. Face layer attached to furring channels with 1-5/8 in. long Type S bugle-head steel screws spaced 12 in. OC. All joints in face layers staggered with joints in base layers.

ACADIA DRYWALL SUPPLIES LTD (View Classification) — CKNX.R25370

AMERICAN GYPSUM CO (View Classification) — CKNX.R14196

BEIJING NEW BUILDING MATERIALS PUBLIC LTD CO (View Classification) —

CKNX.R19374

CERTAINTED GYPSUM INC (View Classification) — CKNX.R3660

CGC INC (View Classification) — CKNX.R19751

CONTINENTAL BUILDING PRODUCTS OPERATING CO, L L C (View Classification) —

Classification) — CKNX.R18482

GEORGIA-PACIFIC GYPSUM L L C (View Classification) — CKNX.R2717

LOADMASTER SYSTEMS INC (View Classification) — CKNX.R11809

NATIONAL GYPSUM CO (View Classification) — CKNX.R3501

PABCO BUILDING PRODUCTS L L C, DBA PABCO GYPSUM (View Classification) — CKNX.R7094

PANEL REY S A (View Classification) — CKNX.R21796

U.L. U356

REFER TO FULL UL PRODUCT ASSEMBLY SPECIFICATION BOOK or WEB SITE FOR COMPLETE INFORMATION

FIRE-RESISTANCE DESIGN

Assembly Usage Disclaimer

Search Parameters

Assembly type Rating

Walls and Partitions Rating ≥ 1 hr and < 2 hr

Keyword

Shaft Wall

BXUV - Fire Resistance Ratings - ANSI/UL 263 Certified for United States
BXUV7 - Fire Resistance Ratings - CAN/ULC-S101 Certified for Canada

See General Information for Fire-resistance Ratings - ANSI/UL 263 Certified for United States Design Criteria and Allowable Variances

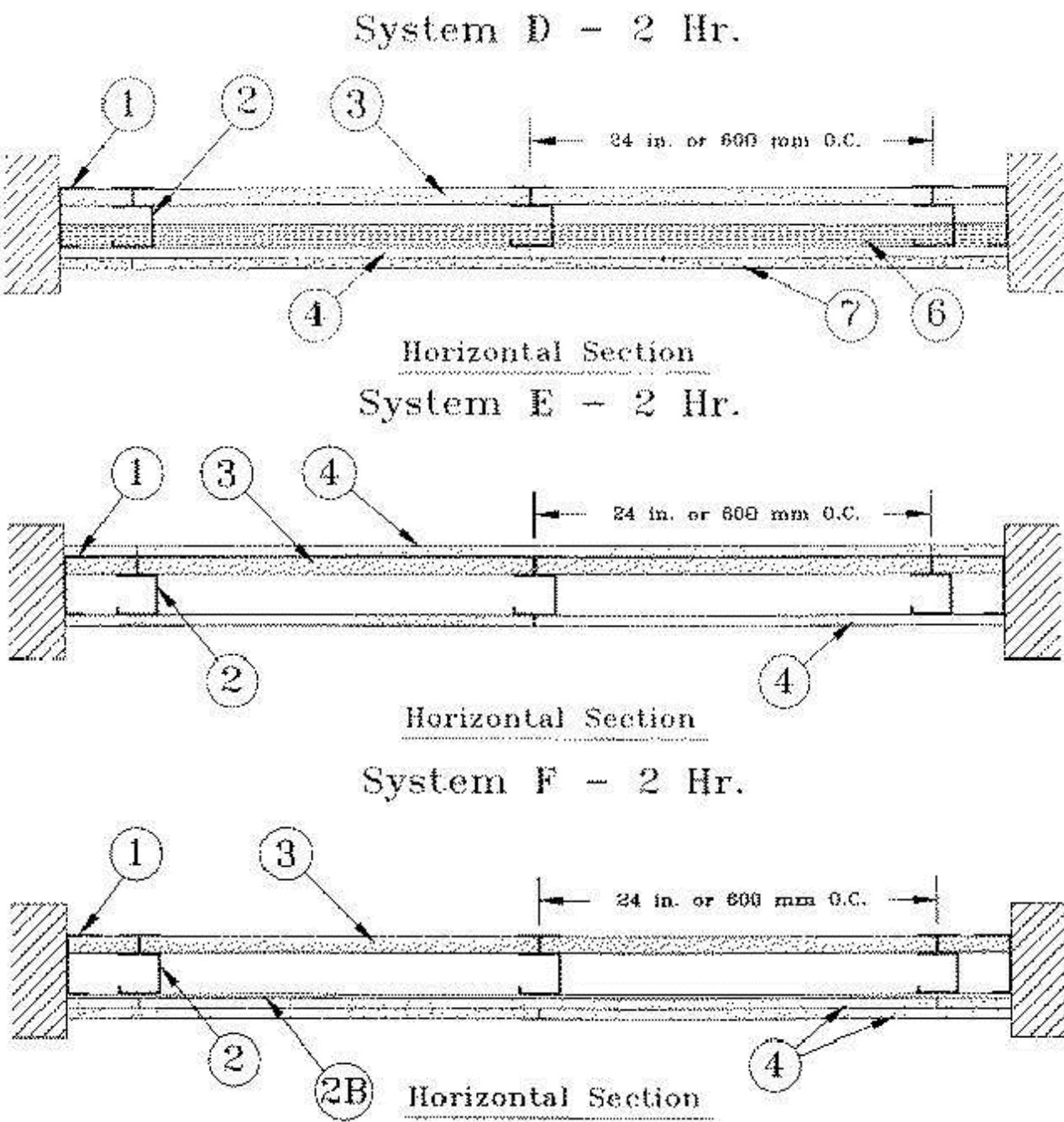
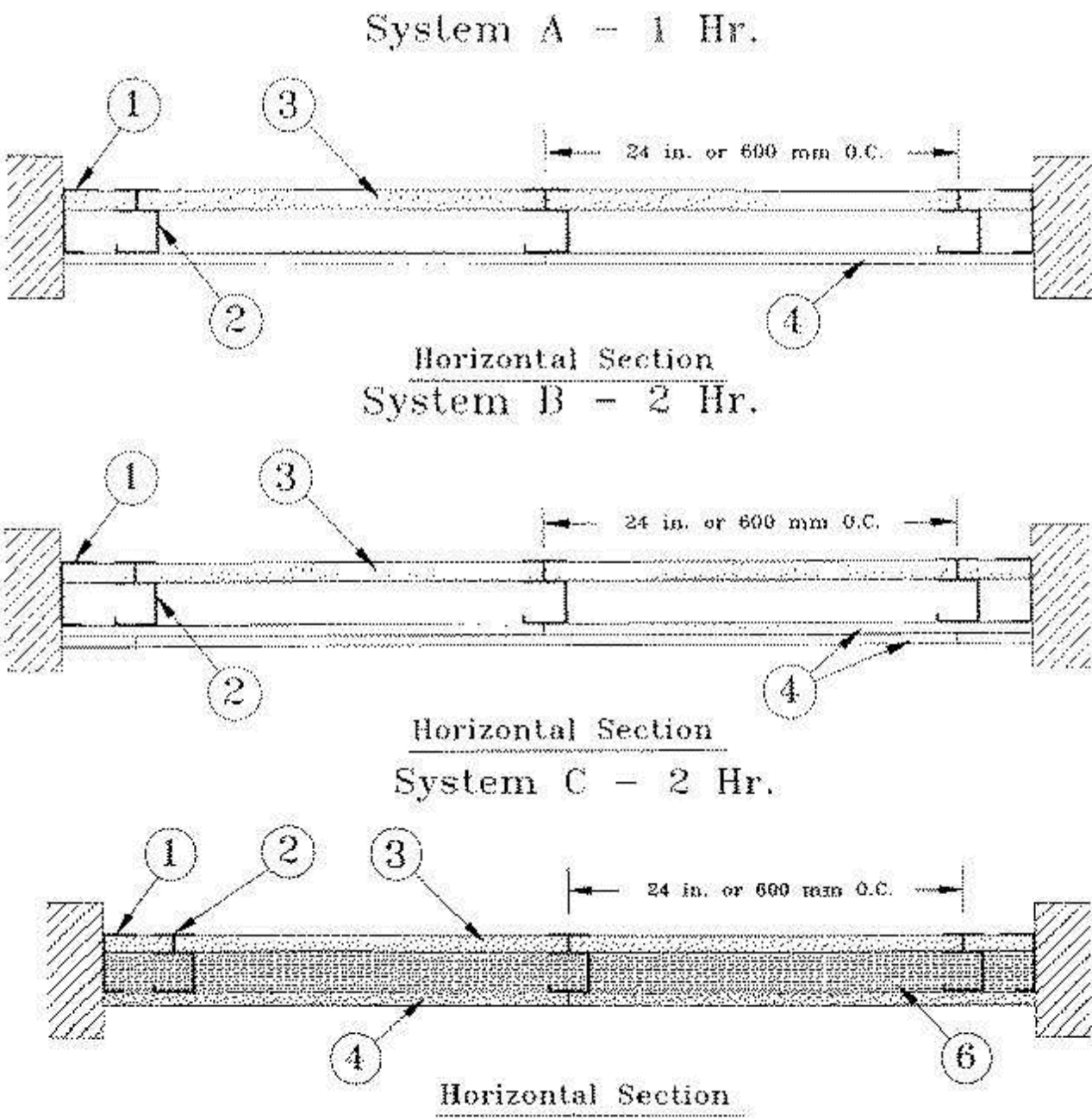
See General Information for Fire Resistance Ratings - CAN/ULC-S101 Certified for Canada Design Criteria and Allowable Variances

Design No. U415

July 12, 2018

Nonbearing Wall Ratings — 1, 2, 3 or 4 Hr

* Indicates such products shall bear the UL or cUL Certification Mark for jurisdictions employing the UL or cUL Certification (such as Canada), respectively.



U.L. U415

REFER TO FULL UL PRODUCT ASSEMBLY SPECIFICATION BOOK or WEB SITE FOR COMPLETE INFORMATION

FIRE-RESISTANCE DESIGN

Assembly Usage Disclaimer

BXUV - Fire Resistance Ratings - ANSI/UL 263 Certified for United States
BXUV7 - Fire Resistance Ratings - CAN/ULC-S101 Certified for Canada

See General Information for Fire-resistance Ratings - ANSI/UL 263 Certified for United States Design Criteria and Allowable Variances

See General Information for Fire Resistance Ratings - CAN/ULC-S101 Certified for Canada Design Criteria and Allowable Variances

Design No. U905

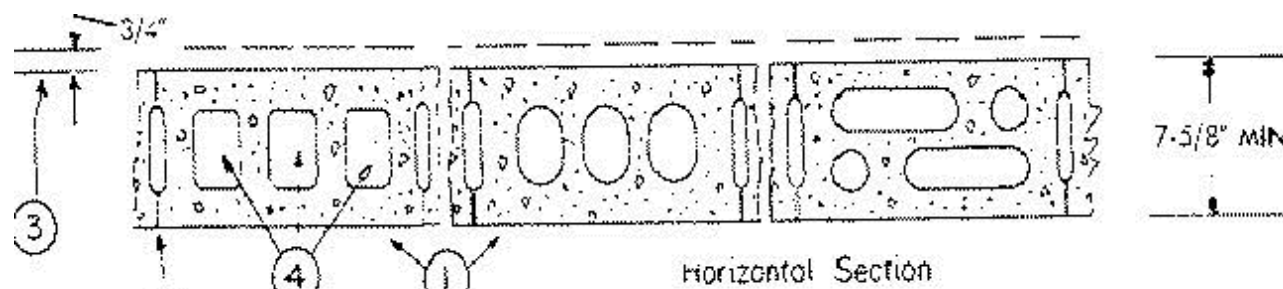
April 09, 2018

Bearing Wall Rating — 2 HR.

Nonbearing Wall Rating — 2 HR

This design was evaluated using a load design method other than the Limit States Design Method (e.g., Working Stress Design Method). For jurisdictions employing the Limit States Design Method, such as Canada, a load restriction factor shall be used — See Guide BXUV or BXUV7

* Indicates such products shall bear the UL or cUL Certification Mark for jurisdictions employing the UL or cUL Certification (such as Canada), respectively.



1. Concrete Blocks* — Various designs. Classification D-2 (2 hr). See Concrete Blocks category for list of eligible manufacturers.

2. Mortar — Blocks laid in full bed of mortar, nom. 3/8 in. thick, of not less than 2-1/4 and not more than 3-1/2 parts of clean sharp sand to 1 part Portland cement (proportioned by volume) and not more than 50 percent hydrated lime (by cement volume). Vertical joints staggered.

3. Portland Cement Stucco or Gypsum Plaster — Add 1/2 hr to classification if used. Where combustible members are framed in wall, plaster or stucco must be applied on the face opposite framing to achieve a max. Classification of 1-1/2 hr. Attached to concrete blocks (Item 1).

4. Loose Masonry Fill — If all core spaces are filled with loose dry expanded slag, expanded clay or shale (Rotary Kiln Process), water repellent vermiculite masonry fill insulation, or silicone treated perlite loose fill insulation add 2 hr to classification.

5. Foamed Plastic* — (Optional-Not Shown) — 1-1/2 in. thick max, 4 ft wide sheathing attached to concrete blocks (Item 1). ATLAS ROOFING CORP — "EnergyShield Pro Wall Insulation", "EnergyShield Pro 2 Wall Insulation", EnergyShield CGF Pro and EnergyShield Ply Pro

CARLISLE COATINGS & WATERPROOFING INC — Type R2+ SHEATHE

FIRESTONE BUILDING PRODUCTS CO L L C — "Enverge™ CI Foil Exterior Wall Insulation" and "Enverge™ CI Glass Exterior Wall Insulation"

HUNTER PANELS — Types Xci-Class A, Xci 286

RMAX OPERATING L L C — "TSX-8500", "TSX-8510", "Thermasheath-XP", "ECOMAXci", "Thermasheath-3", "Durasheath-3"

THE DOW CHEMICAL CO — Types Thermax Sheathing, Thermax Light Duty Insulation, Thermax Heavy Duty Insulation, Thermax Metal Building Board, Thermax White Finish Insulation, Thermax ci Exterior Insulation, Thermax XARMOR ci Exterior Insulation, Thermax IH Insulation, Thermax Plus Liner Panel, Thermax Heavy Duty Plus (HDP) and TUFF-R™ ci Insulation

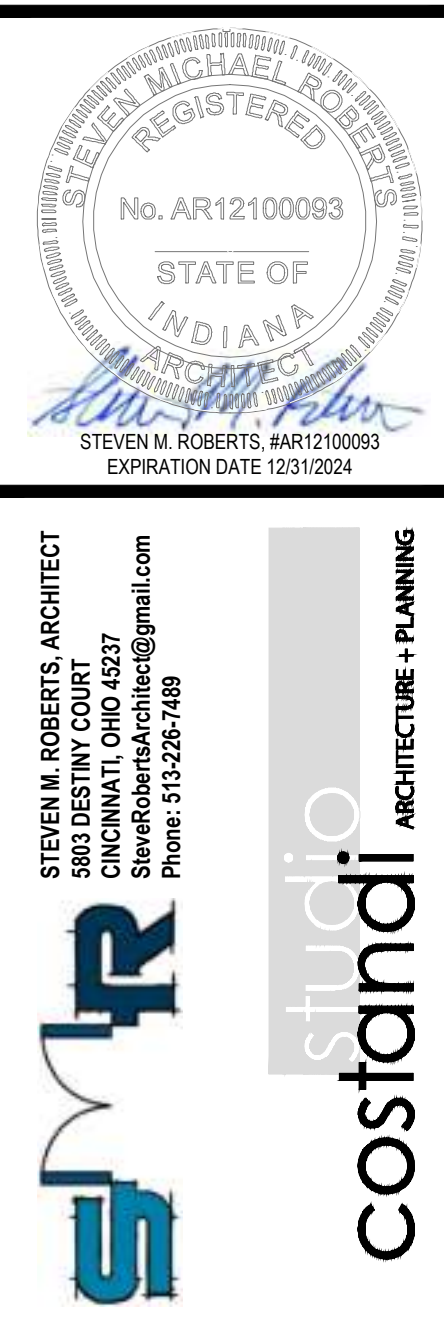
5A. Building Units — As an alternate to Items 5, min. 1-in thick polyisocyanurate composite foamed plastic insulation boards, nom. 48 by 48 or 96 in. RMAX OPERATING L L C — "Thermasheath-SI", "ECOBASeci", "ThermaBase-CI"

* Indicates such products shall bear the UL or cUL Certification Mark for jurisdictions employing the UL or cUL Certification (such as Canada), respectively.

Last Updated on 2018-04-09

U.L. U905

REFER TO FULL UL PRODUCT ASSEMBLY SPECIFICATION BOOK or WEB SITE FOR COMPLETE INFORMATION



ATWELL SUITES
AN IHG HOTEL
ERLEN DR. & MINDEN DR. FISHERS, INDIANA 46037 HAMILTON COUNTY
U.L. ASSEMBLIES:
U311, U356, U415, U905

ISSUE / REVISION DATE:	
05/04/2022	OWNER REVIEW
06/23/2022	OWNER REVIEW
08/04/2022	PRELIMINARY REVIEW
01/13/2023	FRANCHISE REVIEW
04/21/2023	FRANCHISE REVIEW
05/17/2023	SAXONY DESIGN REVIEW 1
09/19/2023	ENG FINAL REVIEW
11/17/2023	SAXONY DESIGN REVIEW 2
01/26/2024	FOR CONSTRUCTION

SMR Project No. **AWSFIN**

BC2.1

FIRE-RESISTANCE DESIGN

Assembly Usage Disclaimer

BXUV - Fire Resistance Ratings - ANSI/UL 263 Certified for United States

BXUV7 - Fire Resistance Ratings - CAN/ULC-S101 Certified for Canada

See General Information for Fire-resistance Ratings - ANSI/UL 263 Certified for United States Design Criteria and Allowable Variances

See General Information for Fire Resistance Ratings - CAN/ULC-S101 Certified for Canada Design Criteria and Allowable Variances

Design No. L550

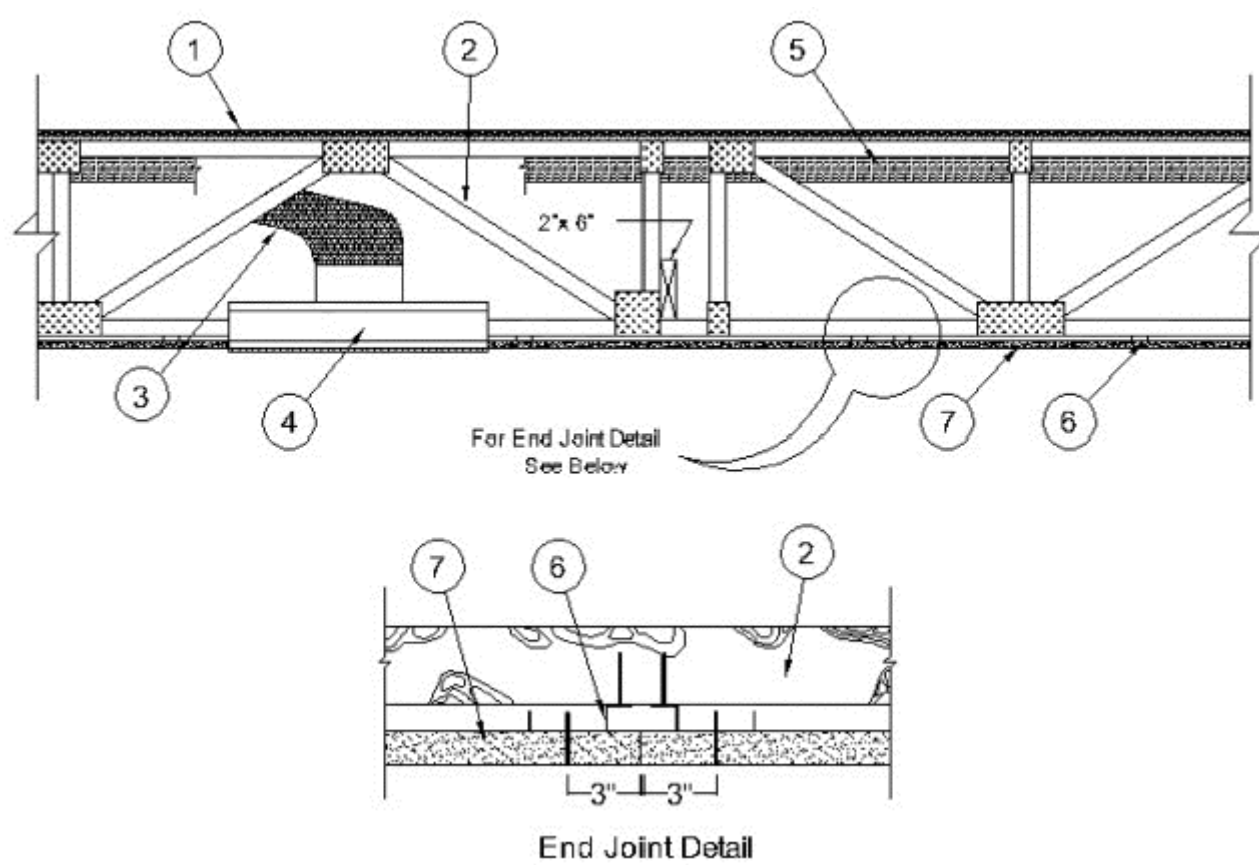
August 29, 2018

Unrestrained Assembly Rating — 1 Hr.

Finish Rating — 23 Min (See Items 5 or 5A and 7), 20 Min. (See Items 6E and 7A)

This design was evaluated using a load design method other than the Limit States Design Method (e.g., Working Stress Design Method). For jurisdictions employing the Limit States Design Method, such as Canada, a load restriction factor shall be used — See Guide BXUV or BXUV7

* Indicates such products shall bear the UL or cUL Certification Mark for jurisdictions employing the UL or cUL Certification (such as Canada), respectively.



1. Flooring System — The flooring system shall consist of one of the following:

System No. 1

Subflooring — Nom 23/32 in. thick wood structural panels installed perpendicular to trusses with end joints staggered. Plywood or panels secured to trusses with construction adhesive and No. 6d ringed shank nails, spaced 12 in. OC along each truss. Staples having equal or greater withdrawal and lateral resistance strength may be substituted for the 6d nails.

Vapor Barrier — (Optional) — Nom 0.030 in. thick commercial asphalt saturated felt.

Finish Flooring — Min 1 by 4 in. T & G lumber fastened diagonally to trusses, or min 15/32 in. plywood, min grade "Underlayment" or "Sturd-I-Floor" with T & G edges and conforming to PS1-83 specifications, or nonveneer APA rated Sturd-I-Floor, T & G panels per APA specifications PRP-108. Face grain of plywood to be perpendicular to trusses with joints staggered.

System No. 2

Subflooring — Nom 23/32 in. thick wood structural panels installed perpendicular to trusses with end joints staggered. Plywood or panels secured to trusses with construction adhesive and No. 6d ringed shank nails, spaced 12 in. OC along each truss. Staples having equal or greater withdrawal and lateral resistance strength may be substituted for the 6d nails.

Vapor Barrier — (Optional) — Nom 0.010 in. thick commercial asphalt saturated felt.

U.L. L550

REFER TO FULL UL PRODUCT ASSEMBLY SPECIFICATION BOOK or WEB SITE FOR COMPLETE INFORMATION

FIRE-RESISTANCE DESIGN

Assembly Usage Disclaimer

BXUV - Fire Resistance Ratings - ANSI/UL 263 Certified for United States

BXUV7 - Fire Resistance Ratings - CAN/ULC-S101 Certified for Canada

See General Information for Fire-resistance Ratings - ANSI/UL 263 Certified for United States Design Criteria and Allowable Variances

See General Information for Fire Resistance Ratings - CAN/ULC-S101 Certified for Canada Design Criteria and Allowable Variances

Design No. L538

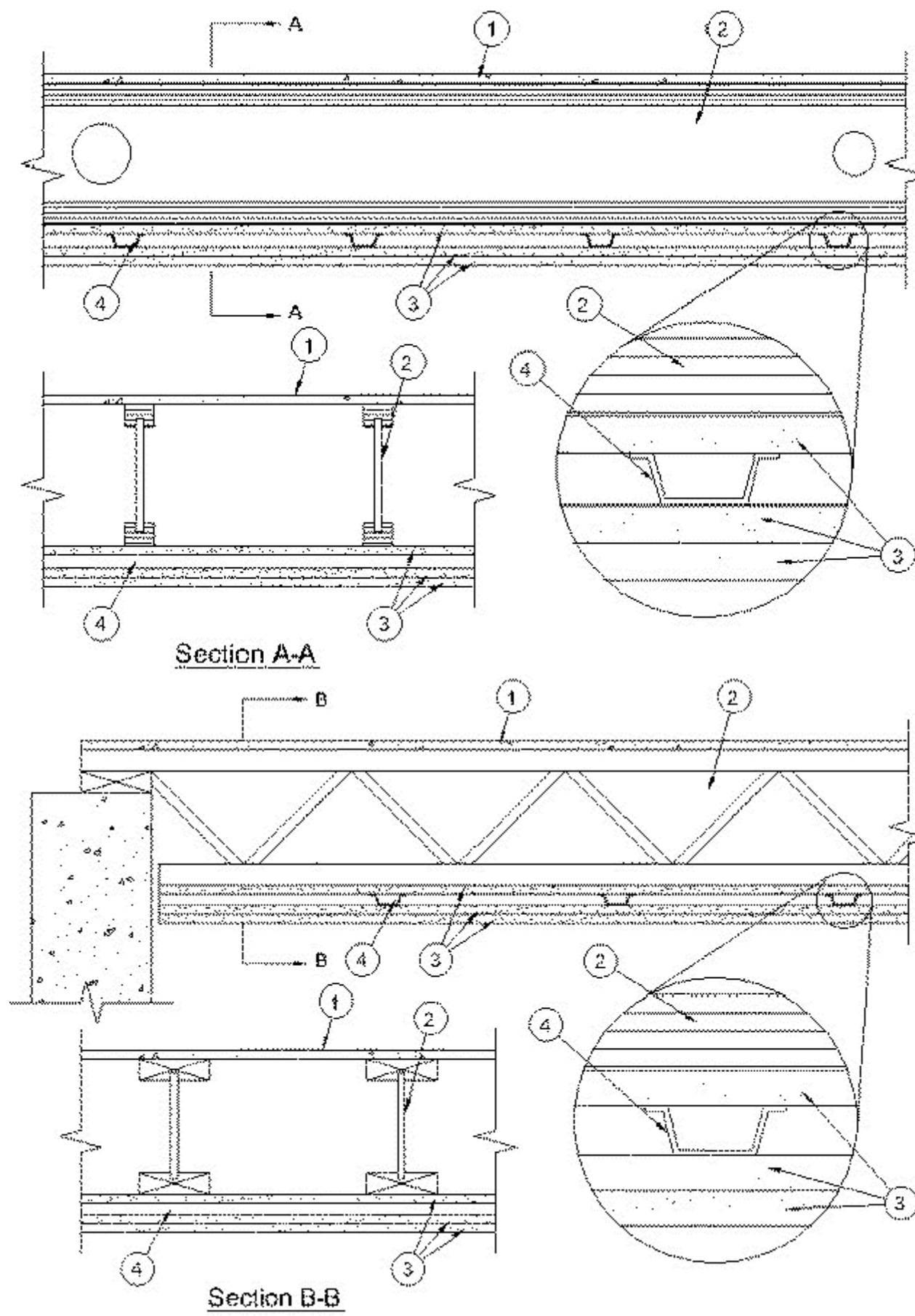
November 27, 2018

Unrestrained Assembly Rating — 2 Hr.

Finish Rating — More Than 90 Min.

This design was evaluated using a load design method other than the Limit States Design Method (e.g., Working Stress Design Method). For jurisdictions employing the Limit States Design Method, such as Canada, a load restriction factor shall be used — See Guide BXUV or BXUV7

* Indicates such products shall bear the UL or cUL Certification Mark for jurisdictions employing the UL or cUL Certification (such as Canada), respectively.



1. Flooring Systems — The flooring system shall consist of one of the following:

System No. 1

Subflooring — Min 5/8 in. thick wood structural panels, min grade "Underlayment" or "Single Floor". Face grain of plywood or strength axis of panels to be perpendicular to joists with end joints centered over the top chord of the joist and staggered.

System No. 2

Subflooring — Min 5/8 in. thick wood structural panels, min grade "Underlayment" or "Single Floor". Face grain of plywood or strength axis of panels to be perpendicular to joists with end joints centered over the top chord of the joist and staggered.

Finish Flooring — Min 3/4 in. thickness of lightweight insulating concrete with Perlite Aggregate* or Vermiculite Aggregate*, or gypsum concrete.

See Perlite Aggregate (CFFX) and Vermiculite Aggregate (CJZZ) categories for names of manufacturers.

U.L. L538

REFER TO FULL UL PRODUCT ASSEMBLY SPECIFICATION BOOK or WEB SITE FOR COMPLETE INFORMATION

FIRE-RESISTANCE DESIGN

Assembly Usage Disclaimer

BXUV - Fire Resistance Ratings - ANSI/UL 263 Certified for United States

BXUV7 - Fire Resistance Ratings - CAN/ULC-S101 Certified for Canada

See General Information for Fire-resistance Ratings - ANSI/UL 263 Certified for United States Design Criteria and Allowable Variances

See General Information for Fire Resistance Ratings - CAN/ULC-S101 Certified for Canada Design Criteria and Allowable Variances

Design No. U305

August 21, 2018

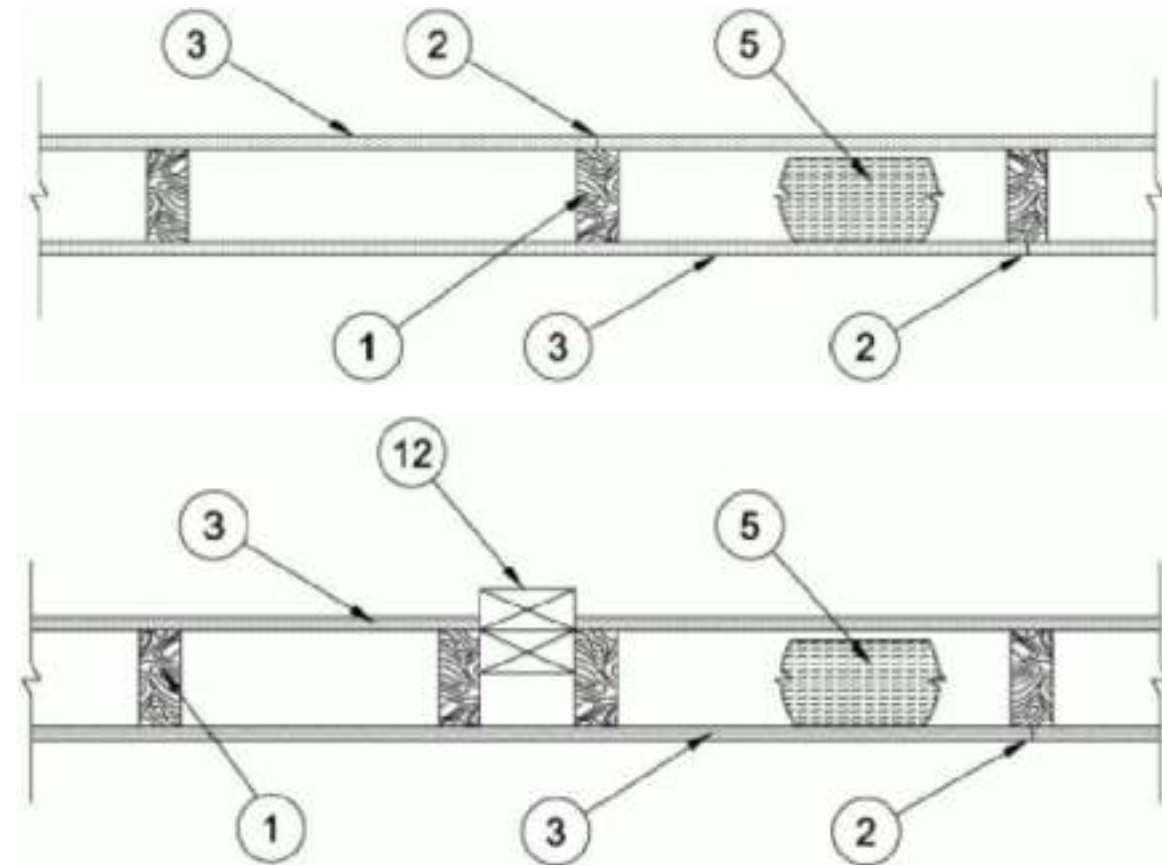
Bearing Wall Rating — 1 Hr

STC Rating - 56 (See Item 9)

Finish Rating — See Items 3, 3A, 3D, 3E, 3F, 3G, 3H, 3J and 3L

This design was evaluated using a load design method other than the Limit States Design Method (e.g., Working Stress Design Method). For jurisdictions employing the Limit States Design Method, such as Canada, a load restriction factor shall be used — See Guide BXUV or BXUV7

* Indicates such products shall bear the UL or cUL Certification Mark for jurisdictions employing the UL or cUL Certification (such as Canada), respectively.



- Wood Studs — Nom 2 by 4 in. spaced 16 in. OC max, effectively firestopped.
- Joints and Nail-Heads — Joints covered with joint compound and paper tape. Joint compound and paper tape may be omitted when square edge boards are used. As an alternate, nom 3/32 in. thick gypsum veneer plaster may be applied to the entire surface of Classified veneer baseboard with the joints reinforced with paper tape. Nailheads exposed or covered with joint compound.
- Gypsum Board* — 5/8 in. thick paper or vinyl surfaced, with beveled, square, or tapered edges, applied either horizontally or vertically. Gypsum panels nailed 7 in. OC with 6d cement coated nails 1-7/8 in. long, 0.0915 in. shank diam and 15/64 in. diam heads. When used in widths other than 48 in., gypsum panels are to be installed horizontally. For an alternate method of attachment of gypsum panels, refer to Items 6 through 6E, Steel Framing Members*.

When Items 6, 6B, 6C, 6D, or 6E, Steel Framing Members*, are used, gypsum panels attached to furring channels with 1 in. long Type S bugle-head steel screws spaced 12 in. OC.

When Item 6A, Steel Framing Members*, is used, two layers of gypsum panels attached to furring channels. Base layer attached to furring channels with 1 in. long Type S bugle-head steel screws spaced 12 in. OC. Face layer attached to furring channels with 1-5/8 in. long Type S bugle-head steel screws spaced 12 in. OC. All joints in face layers staggered with joints in base layers. One layer of gypsum board attached to opposite side of wood stud without furring channels as described in Item 3.

When Item 7, resilient channels are used, 5/8 in. thick, 4 ft wide gypsum panels applied vertically. Screw attached furring channels with 1 in. long, self-drilling, self-tapping Type S or S-12 steel screws spaced 8 in. OC, vertical joints located midway between studs.

ACADIA DRYWALL SUPPLIES LTD — Type X (finish rating 22 min), 5/8 Type X, Moisture Resistant Type X, Gypsum Sheathing Type X, Mold & Mildew Resistant Type X and Mold & Mildew Resistant AR Type X, Type Blueglass Exterior Sheathing

AMERICAN GYPSUM CO — Types AGX-1 (finish rating 23 min.), M-Glass (finish rating 23 min.), Type AGX-11 (finish rating 26 min), Type AGX-12 (finish rating 22 min), Type LightRoc (finish rating 23 min.) or Type AG-C

BEIJING NEW BUILDING MATERIALS PUBLIC LTD CO — Type DBX-1 (finish rating 24 min)

CERTAINTEEED GYPSUM INC — Type 1, Type SF3 (finish rating 20 min) or FRPC; Type C, Type X-2, Type X or Type X-1 (finish rating 26 min); Type EGRG or GlasRoc (finish rating 23 min), GlasRoc-2, Type Habito (finish rating 26 min).

CGC INC — Type AR (finish rating 24 min), Type C (finish rating 24 min), Type IP-AR (finish rating 24 min), Type IPC-AR (finish rating 24 min), Type IP-X1 (finish rating 24 min), Type IP-X2 (finish rating 24 min), Type SCX (finish rating 24 min), Type SHX (finish rating 24 min), Type ULX (finish rating 22 min), Type WRC (finish rating 24 min), Type WRX (finish rating 24 min)

CONTINENTAL BUILDING PRODUCTS OPERATING CO, L L C — Type LGFC6A (finish rating 34 min), Type LGFC2A, Type LGFC-C/A, Type LGFC-WD, Type LGLLX (finish rating 21 min), Type CLLX (finish rating 24 min)

GEORGIA-PACIFIC GYPSUM L L C — Type 5 (finish rating 26 min), Type 6 (finish rating 23 min), Type 9 (finish rating 26 min), Type C (finish rating 26 min), Type DGG (finish rating 20 min), Type GPF51 (finish rating 20 min), Type GPF52 (finish rating 20 min), Type GPF56 (finish rating 26 min), Type DS, Type DAP, Type DD (finish rating 20 min), Type DA, Type DAPC, Type LS (finish rating 23 min), Type X, Veneer Plaster Base - Type X, Water Rated - Type X, Sheathing - Type X, Soffit - Type X, Type LWX (finish rating 22 min), Veneer Plaster Base-Type LWX (finish rating 22 min), Water Rated-Type LWX (finish rating 22 min), Sheathing Type-LWX (finish rating 22 min), Soffit-Type LWX (finish rating 22 min), Type DGLW (finish rating 22 min), Water Rated-Type DGLW (finish rating 22 min), Sheathing Type- DGLW (finish rating 22 min), Soffit-Type DGLW (finish rating 22 min), Type LWX (finish rating 22 min), Type LW2X (finish rating 22 min), Veneer Plaster Base - Type LW2X (finish rating 22 min), Water Rated - Type LW2X (finish rating 22 min), Sheathing - Type LW2X (finish rating 22 min), Soffit - Type LW2X (finish rating 22 min), Type DGL2W (finish rating 22 min), Water Rated - Type DGL2W (finish rating 22 min), Sheathing - Type DGL2W (finish rating 22 min)

U.L. U305

REFER TO FULL UL PRODUCT ASSEMBLY SPECIFICATION BOOK or WEB SITE FOR COMPLETE INFORMATION

FIRE-RESISTANCE DESIGN

Assembly Usage Disclaimer

BXUV - Fire Resistance Ratings - ANSI/UL 263 Certified for United States

BXUV7 - Fire Resistance Ratings - CAN/ULC-S101 Certified for Canada

See General Information for Fire-resistance Ratings - ANSI/UL 263 Certified for United States Design Criteria and Allowable Variances

See General Information for Fire Resistance Ratings - CAN/ULC-S101 Certified for Canada Design Criteria and Allowable Variances

Design No. U301

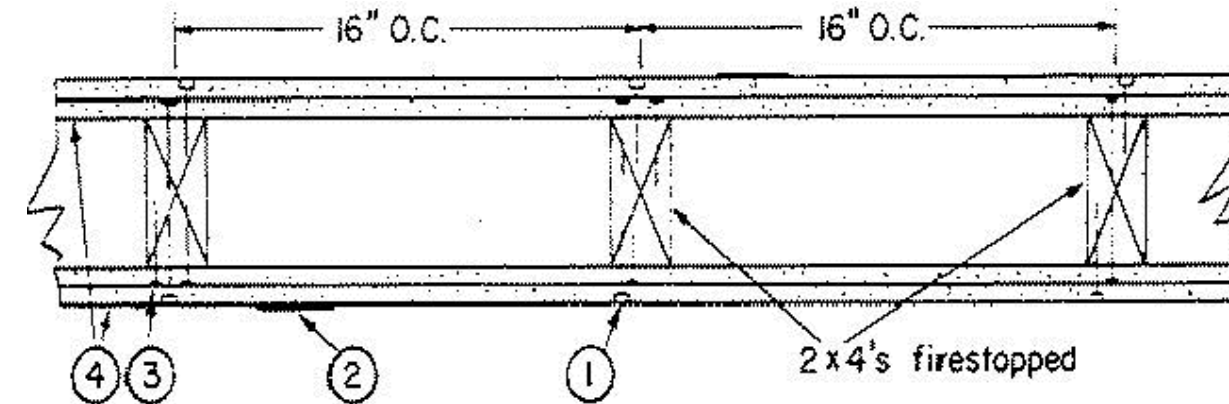
July 11, 2018

Bearing Wall Rating — 2 Hr.

Finish Rating — 66 Min.

This design was evaluated using a load design method other than the Limit States Design Method (e.g., Working Stress Design Method). For jurisdictions employing the Limit States Design Method, such as Canada, a load restriction factor shall be used — See Guide BXUV or BXUV7

* Indicates such products shall bear the UL or cUL Certification Mark for jurisdictions employing the UL or cUL Certification (such as Canada), respectively.



- Nailheads — Exposed or covered with joint compound.
- Joints — Exposed joints covered with joint compound and paper tape. Joint compound and paper tape may be omitted when square edge boards are used. As an alternate, nom 3/32 in. thick gypsum veneer plaster may be applied to the entire surface of Classified veneer baseboard with the joints reinforced with paper tape.
- Nails — 6d cement coated nails 1-7/8 in. long, 0.0915 in. shank diam, 1/4 in. diam heads, and 8d cement coated nails 2-3/8 in. long, 0.113 in. shank diam, 9/32 in. diam heads.
- Gypsum Board* — 5/8 in. thick, two layers applied either horizontally or vertically. Inner layer attached to studs with the 1-7/8 in. nails spaced 6 in. OC. Outer layer attached to studs over inner layer with the 2-3/8 in. long nails spaced 8 in. OC. Vertical joints located over studs. All joints in face layers staggered with joints in base layers. Joints of each base layer offset with joints of base layer on opposite side. When used in widths other than 48 in., gypsum board to be installed horizontally.

When Steel Framing Members* (Item 6, 6A, 6B, or 6C) are used, base layer attached to furring channels with 1 in. long Type S bugle-head steel screws spaced max 24 in. OC; face layer attached with 1-5/8 in. long Type S bugle-head steel screws spaced max 12 in. OC.

ACADIA DRYWALL SUPPLIES LTD — Type X, 5/8 Type X, Moisture Resistant Type X, Gypsum Sheathing Type X, Mold & Mildew Resistant Type X and Mold & Mildew Resistant AR Type X, Type Blueglass Exterior Sheathing

AMERICAN GYPSUM CO — Types AGX-1, M-Glass, AG-C, AGX-11, LightRoc

BEIJING NEW BUILDING MATERIALS PUBLIC LTD CO — Type DBX-1

CERTAINTEEED GYPSUM INC — Types 1, FRPC, EGRG, GlasRoc, GlasRoc-2, Type C, Type X, Type X-1

CGC INC — Types AR, C, IP-AR, IP-X1, IP-X2, IPC-AR, SCX, SHX, ULX, USGX, WRC, WRX

CONTINENTAL BUILDING PRODUCTS OPERATING CO, L L C — Types LGFC2A, LGFC6A, LGFC-C/A, LGFC-WD, LGLLX

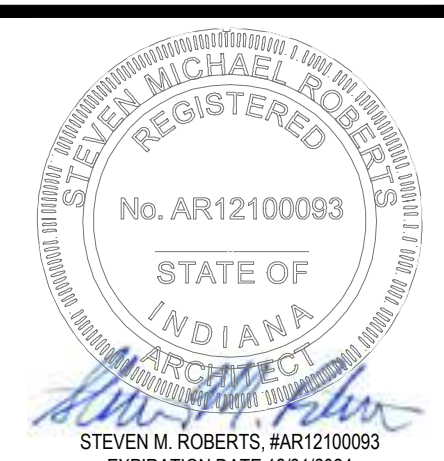
GEORGIA-PACIFIC GYPSUM L L C — Types 5, 6, 9, C, DAP, DD, DA, DAPC, DGG, DS, GPF56, LS, TG-C, Type X, Veneer Plaster Base-Type X, Water Rated-Type X, Sheathing Type-X, Soffit-Type X, GreenGlass Type X, Type LWX, Veneer Plaster Base-Type LWX,

Water Rated-Type LWX, Sheathing Type-LWX, Soffit-Type LWX, Type DGLW, Water Rated-Type DGLW, Sheathing Type- DGLW, Soffit-Type DGLW, Type LW2X, Veneer Plaster Base - Type LW2X, Water Rated - Type LW2X, Sheathing - Type LW2X, Soffit - Type LW2X, Type DGL2W, Water Rated - Type DGL2W, Sheathing - Type DGL2W

NATIONAL GYPSUM CO — Types eXP-C, FSK, FSK-C, FSK-G, FSW, FSW-3, FSW-5, FSW-6, FSW-8, FSW-C, FSW-G, FSMR-C, FSL

U.L. U301

REFER TO FULL UL PRODUCT ASSEMBLY SPECIFICATION BOOK or WEB SITE FOR COMPLETE INFORMATION



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AN IHG HOTEL
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HAMILTON COUNTY
U.L. ASSEMBLIES:
L550, L538, U305, U301

ISSUE / REVISION DATE:	
05/04/2022	OWNER REVIEW
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01/13/2023	FRANCHISE REVIEW
04/21/2023	FRANCHISE REVIEW
05/17/2023	SAXONY DESIGN REVIEW 1
08/19/2023	HS FINAL REVIEW
11/17/2023	SAXONY DESIGN REVIEW 2
01/26/2024	FOR CONSTRUCTION

SMR Project No. **AWSFIN**

BC2.3



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ARCHITECTURE • PLANNING

BXUV.L501 - FIRE-RESISTANCE RATINGS - ANSI/UL 263

Design/System/Construction/Assembly Usage Disclaimer

Authorities Having Jurisdiction should be consulted in all cases as to the particular requirements covering the installation and use of UL Certified products, equipment, system, devices, and materials.

Authorities Having Jurisdiction should be consulted before construction.

Fire resistance assemblies and products are developed by the design submitter and have been investigated by UL for compliance with applicable requirements. The published information cannot always address every construction nuance encountered in the field.

When field issues arise, it is recommended the first contact for assistance be the technical service staff provided by the product manufacturer noted for the design. Users of fire resistance assemblies are advised to consult the general Guide Information for each product category and each group of assemblies. The Guide Information includes specifics concerning alternate materials and alternate methods of construction.

Only products which bear UL's Mark are considered Certified.

BXUV - Fire Resistance Ratings - ANSI/UL 263 Certified for United States

BXUV7 - Fire Resistance Ratings - CAN/ULC-S101 Certified for Canada

See General Information for Fire-resistance Ratings - ANSI/UL 263 Certified for United States
Design Criteria and Allowable Variances

See General Information for Fire Resistance Ratings - CAN/ULC-S101 Certified for Canada
Design Criteria and Allowable Variances

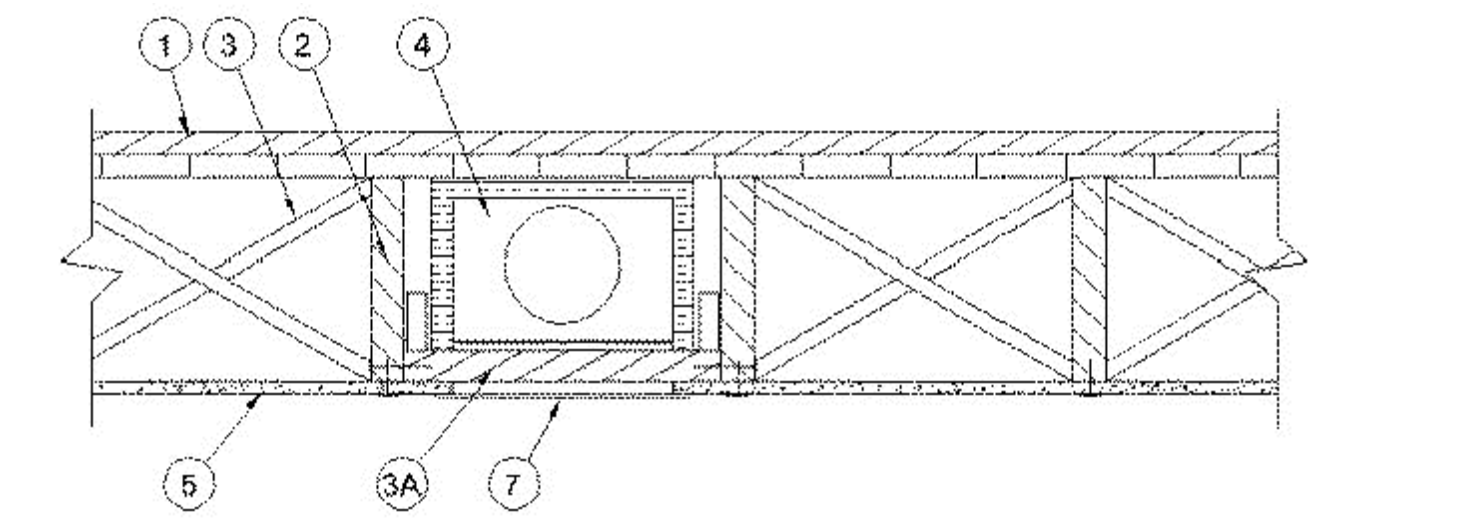
Design No. L501
November 20, 2019

Unrestrained Assembly Rating — 1 Hr.

Finish Rating — (See Items 5 and 5A)

This design was evaluated using a load design method other than the Limit States Design Method (e.g., Working Stress Design Method). For jurisdictions employing the Limit States Design Method, such as Canada, a load restriction factor shall be used — See Guide BXUV or BXUV7

* Indicates such products shall bear the UL or cUL Certification Mark for jurisdictions employing the UL or cUL Certification (such as Canada), respectively.



1. Flooring Systems — The flooring system shall consist of one of the following:

System No. 1

Subflooring — Min 1 by 6 in. T & G lumber fastened diagonally to joists, or min 15/32 in. thick plywood or min 7/16 in. thick oriented strand board (OSB) wood structural panels, min grade "C-D" or "Sheathing". Face grain of plywood or strength axis of panel to be perpendicular to joists with joints staggered.

Vapor Barrier — Nom 0.010 in. thick commercial rosin-sized building paper.

Finish Flooring — Min 1 by 4 in. T & G lumber installed perpendicular to joists, or min 19/32 in. thick wood structural panels, min grade "Underlayment" or "Single-Floor". Face grain of plywood or strength axis of panels to be perpendicular to joists with joints staggered.

System No. 2

Subflooring — Min 15/32 in. thick wood structural panels, min grade "C-D" or "Sheathing". Face grain of plywood or strength axis of panels to be perpendicular to the joists with joints staggered.

Vapor Barrier — (Optional) — Nom 0.030 in. thick commercial asphalt saturated felt.

Floor Mat Materials* — (Optional) — Floor mat material loose laid over the subfloor. Refer to manufacturer's instructions regarding the minimum thickness of floor topping over each floor mat material.

UNITED STATES GYPSUM CO — Types SAM, LEVELROCK® Brand Sound Reduction Board, LEVELROCK® Brand Floor Underlayment SRM-25

Alternate Floor Mat Materials* — (Optional) — Nom 3/8 in. thick floor mat material loose laid over the subfloor. Floor topping thickness shall be as specified under Floor Topping Mixture. GRASSWORK L L C — Type SC50

Finish Flooring — Floor Topping Mixture* — Min 3/4 having a min compressive strength of 1800 psi. Refer to manufacturer's instructions accompanying the material for specific mix design.

UNITED STATES GYPSUM CO — Type CSD, LRLK, HSLRK LATICRETE SUPERCAP L L C — Types LRLK, HSLRK USG MEXICO S A DE C V — Types LRLK, HSLRK, CSD

System No. 3

Subflooring — Min 19/32 in. thick wood structural panels, min grade "C-D" or "Sheathing". Face grain of plywood or strength axis of panel to be perpendicular to joists with joints staggered.

Floor Mat Materials* — (Optional) — Floor mat material nom 5/64 in. (2 mm) thick adhered to subfloor with Hacker Floor Primer. Primer to be applied to the surface of the mat prior to the placement of floor-topping mixture. Floor topping thickness a min 1 in. over the floor mat.

ECORE INTERNATIONAL INC — Type QTscu 4002 HACKER INDUSTRIES INC — Type Hacker Sound-Mat

Alternate Floor Mat Materials — (Optional) — Floor mat material nom 1/4 in. (6 mm) thick adhered to subfloor with Hacker Floor Primer. Primer to be applied to the surface of the mat prior to the placement of a min 1-1/4 in. (32 mm) of floor-topping mixture.

ECORE INTERNATIONAL INC — Type QTfcm 3006-3 HACKER INDUSTRIES INC — Type Hacker Sound-Mat II

Alternate Floor Mat Materials — (Optional) — Floor mat material nom 1/8 in. (3 mm) thick loose laid over the subfloor. Floor topping thickness shall be a min of 3/4 in. (19 mm).

HACKER INDUSTRIES INC — FIRM-FILL SCM 125

Alternate Floor Mat Materials — (Optional) — Floor mat material nom 1/4 in. (6 mm) thick loose laid over the subfloor. Floor topping thickness shall be a min of 1-1/4 in. (32 mm).

HACKER INDUSTRIES INC — Type FIRM-FILL SCM 250, Quiet Quil 55/025

Alternate Floor Mat Materials — (Optional) — Floor mat material nom 3/8 in. (10 mm) thick loose laid over the subfloor. Floor topping thickness shall be a min of 1-1/4 in. (32 mm).

HACKER INDUSTRIES INC — FIRM-FILL SCM 400, Quiet Quil 60/040

Alternate Floor Mat Materials — (Optional) — Floor mat material nom 3/4 in. (19 mm) thick loose laid over the subfloor. Floor topping thickness shall be a min of 1-1/2 in. (38 mm).

HACKER INDUSTRIES INC — Type FIRM-FILL SCM 750, Quiet Quil 65/075

Metal Lath (Optional) — For use with 3/8 in. (10 mm) floor mat materials, 3/8 in. expanded steel diamond mesh, 3.4 lbs/sq yd placed over the floor mat material. Hacker Floor Primer to be applied prior to the placement of the metal lath. When metal lath is used, floor topping thickness a min 1-1/4 in. over the floor mat.

Finish Flooring — Floor Topping Mixture* — Min 3/4 in. thickness of floor topping mixture having a min compressive strength of 1100 psi. Mixture shall consist of 6.8 gal of water to 80 lbs of floor topping mixture to 1.9 cu ft of sand.

HACKER INDUSTRIES INC — Firm-Fill Gypsum Concrete, Firm-Fill 2010, Firm-Fill 3310, Firm-Fill 4010, Firm-Fill High Strength, Gyp-Span Radiant

U.L. L501

REFER TO FULL UL PRODUCT ASSEMBLY SPECIFICATION BOOK
or WEB SITE FOR COMPLETE INFORMATION

FIRE-RESISTANCE DESIGN

Assembly Usage Disclaimer

BXUV - Fire Resistance Ratings - ANSI/UL 263 Certified for United States

BXUV7 - Fire Resistance Ratings - CAN/ULC-S101 Certified for Canada

See General Information for Fire-resistance Ratings - ANSI/UL 263 Certified for United States
Design Criteria and Allowable Variances

See General Information for Fire Resistance Ratings - CAN/ULC-S101 Certified for Canada
Design Criteria and Allowable Variances

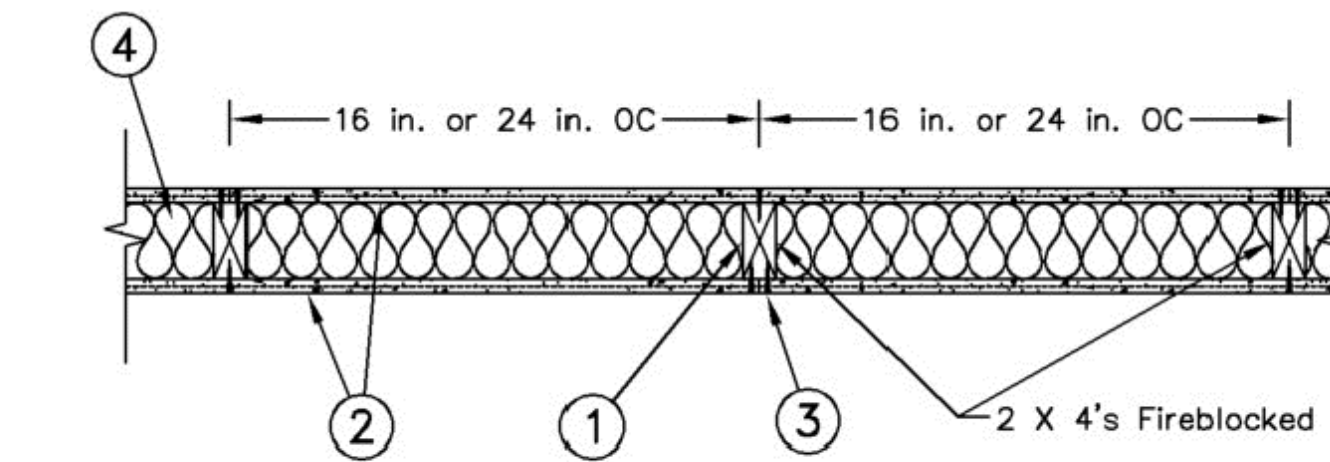
Design No. U376
June 19, 2018

Bearing Wall Rating — 1 Hr.

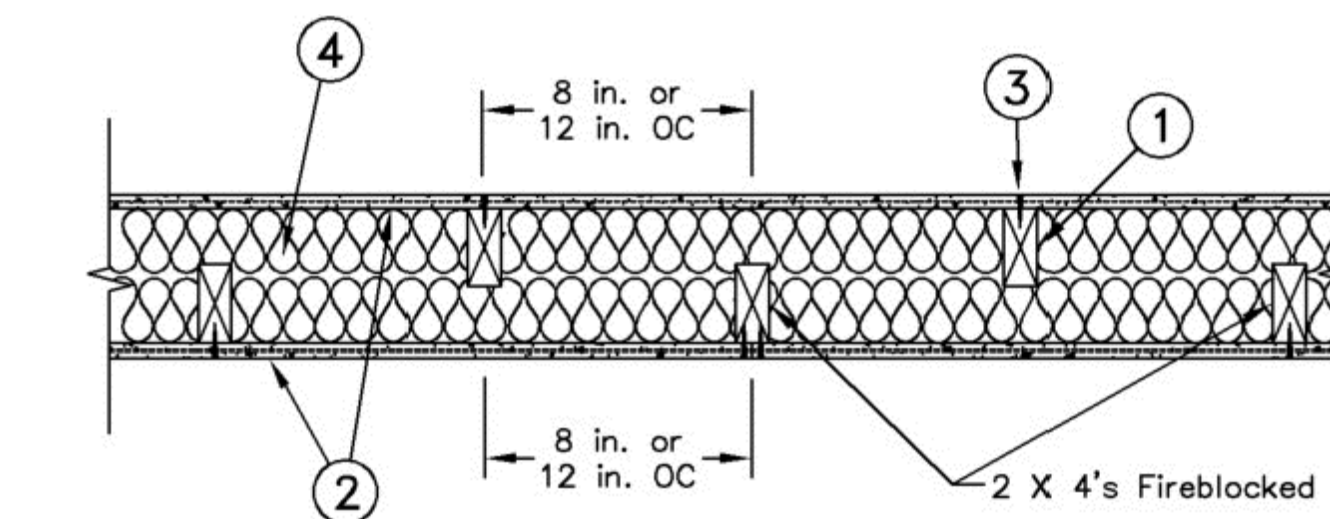
Finish Rating — See Items 2, 2A, 2b or 2C.

This design was evaluated using a load design method other than the Limit States Design Method (e.g., Working Stress Design Method). For jurisdictions employing the Limit States Design Method, such as Canada, a load restriction factor shall be used — See Guide BXUV or BXUV7

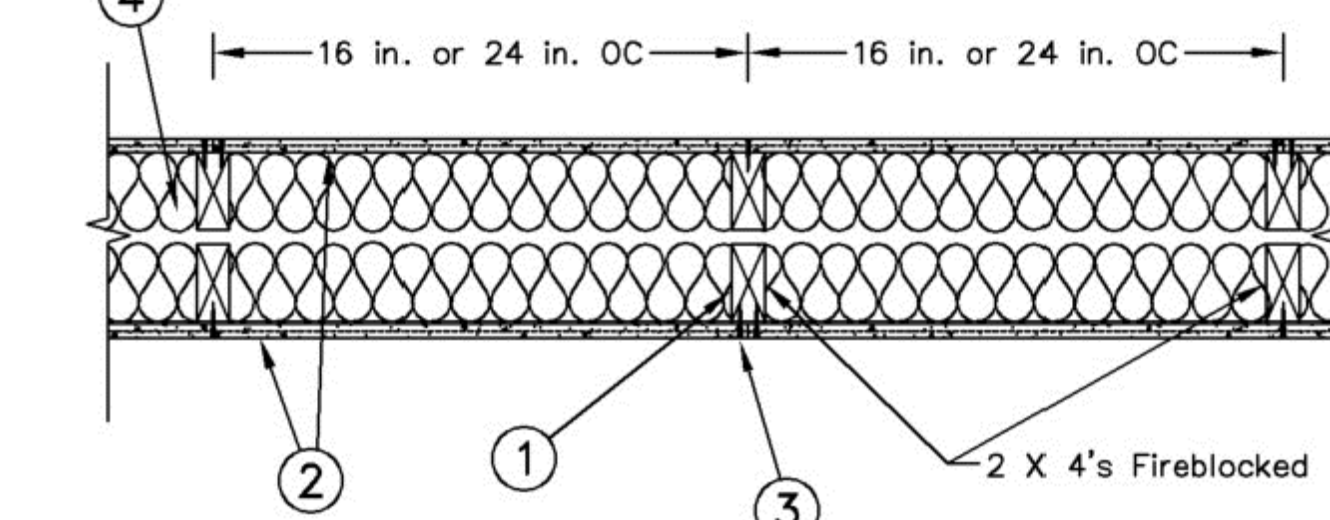
* Indicates such products shall bear the UL or cUL Certification Mark for jurisdictions employing the UL or cUL Certification (such as Canada), respectively.



Configuration A



Configuration B



Configuration C

1. Wood Studs — Nom 2 by 4 in., spaced 12, 16 or 24 in. OC as shown in Configurations A, B or C, effectively firestopped.

2. Gypsum Board* — Nominal 5/8 in. thick, 4 ft wide panels, applied vertically to studs and bearing plates with 1-5/8 in. long Type S screws spaced 12 in. OC at perimeter of panels and 8 in. OC in the field. Vertical joints need not be staggered on opposite sides of wall. Horizontal joints of vertically applied panels need not be backed by studs.

PABCO BUILDING PRODUCTS L L C, DBA PABCO GYPSUM — QuietRock 530 (finish rating 23 min)

2A. Gypsum Board* — (As an alternate to Item 2) — Nominal 5/8 in. thick, 4 ft wide panels, applied vertically. Panels nailed 7 in. OC with 6d cement coated nails 1-7/8 in. long, 0.0915 in. shank diam and 15/64 in. diam heads. Horizontal joints of vertically applied panels to be backed by studs.

PABCO BUILDING PRODUCTS L L C, DBA PABCO GYPSUM — Type QuietRock ES

U.L. U376

REFER TO FULL UL PRODUCT ASSEMBLY SPECIFICATION BOOK
or WEB SITE FOR COMPLETE INFORMATION

ATWELL SUITES

AN IHG HOTEL

ERLEN DR. & MINDEN DR. FISHERS, INDIANA 46037 HAMILTON COUNTY

U.L. ASSEMBLIES:
U376, L501

ISSUE / REVISION DATE:	
05/04/2022	OWNER REVIEW
06/23/2022	OWNER REVIEW
08/04/2022	PRELIMINARY REVIEW
01/13/2023	FRANCHISE REVIEW
04/21/2023	FRANCHISE REVIEW
05/17/2023	SAXONY DESIGN REVIEW 1
09/19/2023	HS FINAL REVIEW
11/17/2023	SAXONY DESIGN REVIEW 2
01/26/2024	FOR CONSTRUCTION

SMR Project No. **AWSFIN**

BC2.4

Section A-A

1. **Well Assembly.** - The 1 or 2 ft steel gypsum wall/casedwell well assembly shall be constructed of the materials and in the manner described in the individual U400, U400 or V400 Series Well Part and Partitions Designs in the UL Fire Resistance Directory and shall include the following construction features:
 - Study.** - Well frames composed of cast either wood or steel sheet channel studs. Wood studs at maximum of nom 2 by 4 in., (51 by 102 mm) length spaced 16 in., (406 mm) OC. Steel studs to be min 2-1/2, (64 mm) wide and spaced max 24 in., (610 mm) CC.
2. **Gypsum Board*** - 5/8 in. (16 mm) thick, 4 ft.(12 m) wide by square or tapered edges. The gypsum board shall be installed in accordance with the requirements set forth in the individual U400, U400 or V400 Series Design in the UL Fire Resistance Directory. Max depth of opening is 5 in. (127 mm).
3. **The hourly R rating of the firestop system is equal to the hourly fire rating of the wall assembly in which it is installed.**
4. **Through Penetrations.** - One nonmetallic pipe or conduit to be penetrated within the firestop system. A non metallic pipe, 1/8 inch, minimum, number of spurs, flanges and other connection shall be as specified in the individual U400, U400 or V400 Series Design in the UL Fire Resistance Directory. Max depth of opening is 5 in. (127 mm).
5. **Polyvinyl Chloride (PVC)** Pipe - Nom 4 in. (102 mm) diam [or smaller] Schedule 40 solid or cellular core PVC pipe for use in closed (process or supply) or vented (drain, waste or vent) piping systems.
6. **Rigid Nonmetallic Conduit** - Nom 4 in. (102 mm) diam [or smaller] Schedule 40 or 60 PVC conduit installed in accordance with the National Electrical Code (NFPA No. 70).
7. **Chlorinated Polyvinyl Chloride (CPVC)** Pipe - Nom 4 in. (102 mm) diam [or smaller] SDR13 CPVC pipe for use in closed (process or supply) piping systems.
8. **Acrylonitrile Butadiene Styrene (ABS)** Pipe - Nom 4 in. (102 mm) diam [or smaller] Schedule 40 solid or flared core ABS pipe for use in closed (process or supply) piping systems.
9. **Fibre Reinforced Polyethylene (FRPE)** Pipe - Nom 4 in. (102 mm) diam [or smaller] Schedule 40 FRPE pipe for use in closed (process or supply) or vented (drain, waste or vent) piping systems.

*Approved country of manufacture: Laboratories, Inc.

Specified Technologies Inc. 210 Evans Way Somerville, NJ 08876

Created & Revised April 23, 2014
Revised August 12, 2014


 WJL-0329

System No. FC-2035

F Rating - 1 Hr

T Rating - 1 Hr

1. **Floor-Ceiling Assembly** - The 1 hr fire-rated solid or trusswood lumber joint floor-ceiling assembly shall be constructed of the materials and in the manner specified in individual 1000 Series Floor-Ceiling Designs in the U.S. Fire Resistance Directory, as summarized below:
 - A. **Flooring System** - Lumber or plywood installed with finish floor of lumber, plywood or **Flaming Topping Mixture** as specified in the Individual Floor-Ceiling Design. Mass claim of floor opening is 4-1/2 in. (114 mm).
 - B. **Wood Joists** - 2" by 10 in. (51 by 254 mm) steel trusswood lumber spaced 18 in. (458 mm) OC with no more than 1 yd 2 in. (254 by 76 mm) lumber bridging and with ends firestopped. As an alternative to lumber joists, 10 in. (254 mm) deep or deeper lumber, steel or combination lumber and steel joists, trusses or **Structural Wood Joists** (including as required with ends firestopped).
 - C. **Furring Channels** - Cold formed - fluted/galv steel furring installed perpendicular to wood joists (Item 1B) between gypsum board (Item 1D) and wood joists as required in the Individual Floor-Ceiling Design.
 - D. **Gypsum Board** - 5/8" (16 mm) AIA 1 1/2 min yield S18, (16 mm) thick as specified in the Individual Floor-Ceiling Design. Gypsum board secured to wood joists as specified in the Individual Floor-Ceiling Design. Mass claim of ceiling opening is 5 in. (127 mm).
 - E. **Chase Wall** - (Optional) - The through penetration (Item 3) may be routed through 1 in. (25 mm) fire rated, double or staggered wood stud/gypsum board chase wall consisting of the materials and in the manner specified in individual 1000 Series Wall and Partition Designs in the U.S. Fire Resistance Directory and shall have the following construction details:
 - A. **Studs** - 2" by 6 in. (51 by 152 mm) or double 2" by 4 in. (51 by 102 mm) lumber studs.
 - B. **Sole Plate** - None 2" by 6 in. (51 by 152 mm) or parallel 2" by 4 in. (51 by 102 mm) lumber plates, tightly butted.
 - C. **Top Plate** - The double top plate shall consist of one or two 2" by 6 in. (51 by 152 mm) or two sets of parallel 2" by 4 in. (51 by 102 mm) lumber plates, tightly butted. Mass claim of opening is 1 in. (25 mm).
 - D. **Gypsum Board** - Thickness, type, number of layers and fasteners shall be as specified in individual Wall and Partition Design.

Specified Technologies Inc., 210 Evans Way, Somerville, NJ 08876

Represented exclusively by Underwriters Laboratories

Created or Revised: January 23, 2014

(800)302-1180 or (908)502-0041 • Fax: (908)221-4541 • info@underwriters.com • www.underwriters.com

U-C-2035
10/12

WSFIN

System No. F-C-2142

Fire Rating – 0 hr

Underwriters Laboratories Inc.

9700 Waukegan Rd.

Itasca, IL 60143

- Floor-Ceiling Assembly** – The fire-rated steel or braced lumber joist floor-ceiling assembly shall be constructed of the materials and in the manner specified in individual UL0 Series Floor-Ceiling Designs in the U.S. Fire Resistance Directory. The general construction details of the floor-ceiling assembly are summarized below.
 - 1.1** **Joist Assembly** – Lumber or girded aluminum with finish floor, gypboard or Floor Topping Material¹ as specified in the Floor-Ceiling Design. Span of opening shall be 1 in. (25 mm) larger than the non span of through-penetrant (Item 3).
 - 1.2** **Wood Joists** – Non-span joists 19 to 31 in. (51 to 787 mm) lumber joists spaced at 16 in. (406 mm) on center with 1 in. (25 mm) lumber bridging and with ends fastened. Joist an alternate to lumber joists, non-span 19 to 31 in. (51 to 787 mm) deep joist (joist), steel or combination lumber and steel joists, or Structural Wood Member² with bridging as required with ends fastened.
 - 1.3** **Forming Channel** – Flat channel – Resistant gus steel bracing installed perpendicular to wood joists (Item 16) between wallboard (Item 17) and wood joists as required in the individual Floor-Ceiling Design.
 - 1.4** **Through Penetrant** – Non-span 4 to 12 in. wide by 16 in. (101 mm) thick as specified in the individual Floor-Ceiling Design. Span of opening shall be 1 in. (25 mm) larger than the non span of through-penetrant (Item 3).
- 2. Ceiling** – 1/8" (3.18 mm) – (Optional) – The through penetrant (Item 3) may be sealed through a 1/8" fire-rated steel, double or staggered wood slat/staggered wallboard chase, constructed of the materials and in the manner specified in individual UL00 Series Wall and Partition Designs in the U.S. Fire Resistance Directory and shall include the following construction details:
 - 2.1** **Stud** – Non-span 2 by 4 in. (51 by 102 mm) lumber studs.
 - 2.2** **Soil Plate** – Non-span 2 by 4 in. (51 by 102 mm) lumber plates. Span of opening shall be 1 in. (25 mm) larger than the non span of through-penetrant (Item 3).
 - 2.3** **Top Plate** – The double top plate shall consist of the non-span 2 by 4 in. (51 by 102 mm) lumber plates. Span of opening shall be 1 in. (25 mm) larger than the non span of through-penetrant (Item 3).
 - 2.4** **Gypsum Board**³ – Thickness, type, number of layers and fasteners shall be as specified in individual Wall and Partition Design.

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January 15, 2015

Page: 2 of 2

FC-212

System No. F-C-212

3. **Through – Penetrants** – One nonmetallic pipe to be installed either eccentrically or concentrically within the firestop system. The annular space between the penetrant and the periphery of the opening shall be a min 5/8 in. (3/4) inch. At a max of 5/8 in. (16 mm). Pipe to be rigidly supported on both sides of the floor-ceiling assembly. The following types and sizes of nonmetallic pipes may be used:

- A. Polypropylene (PPVC) Pipe – Non 2 in. (51 mm) diam (or smaller) Schedule 40 cellular or solid core PVC pipes for use in closed (process or supply) or vented (drain, waste, or vent) piping systems.
- B. Acrylonitrile Butadiene Styrene (ABS) Pipe – Non 2 in. (51 mm) diam (or smaller) Schedule 40 cellular or solid core ABS pipe for use in closed (process or supply) or vented (drain, waste, or vent) piping systems.
- C. Chlorinated Polyvinyl Chloride (CPVC) Pipe – Non 2 in. (51 mm) diam (or smaller) SDR17 CPVC pipe for use in closed (process or supply) or vented (drain, waste or vent) piping systems.

4. **Fill Void or Cavity Material** – Sealant – Min 3/4 in. (19 mm) thickness of fill material applied within the annulus, flush with top surface of floor or base plate. Min 5/8 in. (16 mm) thickness of fill material applied within the annulus, flush with and flush with bottom surface of ceiling or of lower top plate.

HILTI CONSTRUCTION PRODUCTS, DIV OF HILTI INC. – FIRESTOP SEALANT OR FS-ONE MAX INTERLOCK SEALANT

* Indicates such products shall bear the U.S. and/or Canadian Certification Mark for jurisdictions employing the U.S. and/or Canadian, respectively.

FC-23

System No. FC-23E

F Rating — 1 Hr

T Rating — 1 Hr

The diagram shows a cross-section of a fire-rated floor-ceiling assembly. It consists of several layers: a top concrete slab (labeled 1), a metal deck (labeled 2), a layer of loose-fill insulation (labeled 3), a gypsum board (labeled 4), and a bottom concrete slab (labeled 5). The assembly is shown with a vertical cutaway view.

1. Floor-Ceiling Assembly — The 1 hr fire-rated wood or trussed lumber joist floor-ceiling assembly shall be constructed of the materials and in the manner specified in the individual UL500 Series Floor-Ceiling Designs in the UL Fire Resistance Directory. The general construction features of the floor-ceiling assembly are summarized below:

- A. Floating System — Lumber or plywood surface with finish floor of timber, plywood or Floor Topping Mixture^{*} as specified in the individual Floor-Ceiling Design. Max. diam of opening shall be 36 x 12 (17).
- B. Wood Joist — Nom 10 in. (25 mm) deep (or deeper) lumber, steel or combination lumber and steel joists, trusses or Structural Wood Members^{*} with bridging as required and ends flush/flushed.
- C. Gypsum Board^{*} — Nom 5/8 in. (16 mm) thick, 4 ft (1.2 m) wide as specified in the individual Floor-Ceiling Design.
- D. Loose Filling — Acrylonitrile butadiene styrene (ABS) or polystyrene chloride (PVC) closed-cell foam sized to accommodate main joist. Closed frame installed after drapery either floor-opening with furring secured to plywood floor with steel screws. Annular space between closed frame and periphery of opening shall be 1/4 in. (6 mm).
- E. Drain Piping — 1 in. (102 mm) dia (or smaller) Schedule 40 acrylonitrile butadiene styrene (ABS) or polypropylene (PPR) drain pipe and its downspout for use in vented drains, waste or vent piping systems. Pipes installed concentrically within framing system.
- F. Fill With or Cavity Material^{*} — Sequester Min 34 (91 mm) thickness of material applied within the annulus, flush with the bottom surface of floor.
- G. HLT CONSTRUCTION CHEMICALS, OFC HL-A — CP 600 Flexible Firestop Sealant, FS-NONE Sealant or FS-NONE Max Intumescent Sealant.
- H. Water Coat^{*} — (Not Show) — Floor-mounted vitreous china water closet.

* Indicates such products shall bear the UL or cUL Certification Mark for jurisdictions employing the UL or cUL Certification (such as Canada), respectively.

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Underwriters Laboratories, Inc.
January 15, 2017

System No. F-C-3013
1 Rating - 1 to 2 ft H (See Item 2)
T Ratings - 3/4" L and 2 ft H (See Item 3)
L Rating At Anchor, L or U Scribe In The UL Fire Resistance Directory
L Rating at 600° F - Less than 1 CFM/lit H

Section A-A

- Flooring Assembly -** The 1 in fire-rated solid or treated lumber floor joist assembly shall be constructed of the materials and in the manner specified in the individual L500 Series Floor-Ceiling Designs in the UL Fire Resistance Directory. The 2 in fire-rated solid floor joist assembly shall be constructed of the materials and in the manner specified in Items C, L50K, L51L or L53H in the UL Fire Resistance Directory. The general construction features of the floor ceiling assembly are summarized below:
 a. **Flooring System -** Lumber or plywood surfaced with finish floor; plywood or **Fire Topping Members** as specified in the individual Floor-Ceiling Design. Max diam of floor opening is 2 in.
 b. **Wood Joists -** For 1 in fire-rated assemblies, joists shall comply with item 10 in above or designed; lumber, steel or combination lumber and steel joists, trusses or Structural Wood Members with bridging as required and end finish specified. For 2 in fire-rated floor-ceiling assemblies, max 2 by 10 in, 10 lb lumber joists spaced @ 16 in OC with min 1 by 3 in. lumber bridging and with ends finished.
 c. **Finishing Channels -** (Not shown) - In 2 in fire-rated assemblies, resilient gasket shall terminate perpendicular to wood joints between first and second layers of gypsum board (Item 10). Finishing channels spaced max 24 in. OC. In 1 in fire-rated assemblies, resilient gasket facing installed perpendicular to wood joints between gypsum board and wood joists as specified in the individual Floor-Ceiling Design. Finishing channels spaced max 24 in. OC. In 1 in fire-rated assemblies, resilient gasket facing installed perpendicular to wood joints between gypsum board and wood joists as specified in the individual Floor-Ceiling Design. Finishing channels spaced max 24 in. OC.
 d. **Gypsum Board -** Nom 4 in wide by 5/8 in. thick as specified in the individual Floor-Ceiling Design. First layer of gypsum board secured to wood joists or finishing channels as specified in the individual Floor-Ceiling Design. Second layer of wallboard (2 in fire-rated assembly) attached to finishing channels as specified in the individual Floor-Ceiling Design. Max diam of ceiling opening is 2 ft.

1. **Chase Wall** – (Not shown, Optional) The chase penetrating a fire-rated assembly, double or staggered wood stud/gypsum board wall having a listing number consistent with that of the fire-rated assembly. The chase wall shall be constructed of the materials and in the manner specified in the individual 200 Series Wall and Partition Details in the U.S. Fire Resistance Directory and shall be constructed in accordance with the following construction features:

- a. **Studs** – Nom 2 by 6 in. or double nominal 2 by 4 lumber studs.
- b. **Bottom Plate** – Nom 2 by 6 in. or parallel 2 by 4 in. lumber plates, tightly bolted.
- c. **Top Plate** – The top plate must consist of two nom 2 by 6 in. or two sets of parallel 2 by 4 in. lumber plates, tightly bolted.
- d. **Stud Spacing** – Max. dist. of spacing is 24 in.
- e. **Gypsum Board** – Thickness, type, number of layers and fasteners shall be as specified in individual Wall and Partition Details.

2. **Cables** – One or more cables to be installed independently or concurrently within the fire-rated system. Cables to be installed approximately midway between wood panel. Dist. of spacing may be altered within the fire-rated system and through gypsum reinforced ceiling to be min 38 in., larger than the outside diam of the cable bundle. The annular space within the fire-rated system shall be a min 8 in. (dependent source) to a max 11-1/4 in. Cables to be installed on both sides of fire-rating assembly. The following types and sizes of cables may be used:

- a. Max 100 per ft. 24 AWG (or smaller) copper conductor telephone cables with polyvinyl chloride (PVC) insulation and jacketed materials.
- b. Max 3/8" (with ground) No. 20 (or smaller) AlMG aluminum conductor service entrance cables with PVC insulation and tightly listed, Max dist. of spacing is 36 in.
- c. Max 3/8" (with ground) No. 12 (or smaller) copper conductor nonmetallic sheathed (Thomson) cables with PVC insulation and jacketed materials.
- d. Max 3/8" (with ground) No. 10 (or smaller) copper conductor nonmetallic sheathed (Thomson) cables with PVC insulation and jacketed materials.

3. **The number of cables allowed within the fire-rated opening** is determined by the type and size of cable as tabulated in 2A-24.

2A-24. **Through Penetrating Product** – (Not shown) – As an alternate to item 2, through-penetrating product to be installed approximately or concurrently within the fire-rated system. The product to be installed approximately midway between wood panel. Dist. of spacing along chase through flooring system and through gypsum board ceiling to be min 38 in., larger than the outside diam of the cable bundle. The annular space within the fire-rated system shall be a min 8 in. (dependent source) to a max 11-1/4 in. Cables to be installed on both sides of a fire-rating assembly. The following types of through-penetrating products may be used:

- a. Max 4 cable products No. 20 AWG (or smaller) aluminum or steel **Armored Cable** or **Metal-Clad Cable**.

AFC CABLE SYSTEMS INC

- 2. Two or more twisted copper conductors No. 6 AWG (or smaller) **Power Limited Circuit Cable** without or without a jacket under a metal armor.

AFC CABLE SYSTEMS INC

- 3. Two or more twisted copper conductors No. 10 AWG (or smaller) **Power Limited Fire Alarm Cable** without or without a jacket under a metal armor.

AFC CABLE SYSTEMS INC

- 2. Two or more twisted copper conductors No. 12 AWG (or smaller) **Non Power Limited Fire Alarm Cable** with or without a jacket under a metal armor.

AFC CABLE SYSTEMS INC

The F and T Ratings of the firestop system are dependent upon the routing of the fire-flooring and the number of through penetrants, as tabulated below:

Rating of Assembly by	Type of Thought Penetrant	Max No. of Penetrant	F Rating, W	T Rating, W
1	Telephone Cable	1	1	1
2	Telephone Cable	1	2	2
1	Service Entrance Cable	1	1	1
1	Armored Cable	1	1	3/4
1	Romex Cable	7	1	3/4
1	Power Limited Circuit Cables	1	1	3/4
1	Non Power Limited Fire Alarm-Cable	1	1	3/4
1	Power Limited Fire Alarm-Cable	1	1	3/4
1	Metal Clad Cable	1	1	3/4

3. **FIL, Void or Cavity Material - Sealant** - On top surface of floor, min 3/4 in. thickness of fill material applied within annulus. Flush with bottom surface of ceiling or lower top plate of chase wall assembly. Additional fill material to be installed such that a min 1/8 in. crown is formed around the penetrating item on bottom surface of ceiling or lower top plate of chase wall assembly. On both top and bottom of assembly, fill material to seal all interfaces of cable group to mass extend concrete.

SPECIFIED TECHNOLOGIES INC. - Specified Series BSS Sealant or Specified LC2 Sealant
 *Indicates such products shall meet the UL or cUL Certification mark for jurisdictions employing the UL or cUL Certification (such as Canada), respectively.



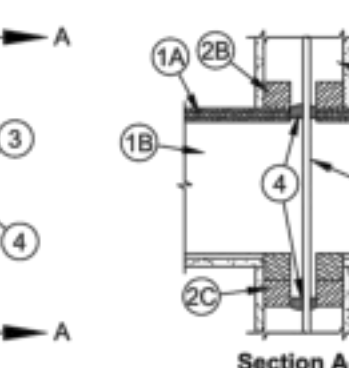
Specified Technologies Inc., 210 Evans Way Somerville, NJ 08876



System No. FC-C-3016

Rating - 150V

F Rating: 3rd and 1st (See Items 3 and 3A)
R Rating of Ambient: Less Than 175°F (65°C)
R Rating at 400° F: Less Than 175°F (65°C)



Section A-A

1. **Floor-Ceiling Assembly** - The 1½ hr-rated solid or trussed lumber floor-ceiling assembly shall be constructed of the materials and in the manner specified in the individual ISO Series Floor-Ceiling designs in the UL Fire Resistance Directory, as summarized below:

 a. **Flooring System** - Lumber or plywood subfloor with first floor of lumber; plywood or **Flame Topping Materials** as specified for the individual Floor-Ceiling Design. Max. clear of opening to be 2 in. (51 mm).

 b. **Joints** - No less than (254 mm deep or deeper) lumber and steel floor joists or **Structural Wood Members** with bedding as required and with ends firestopped.

 c. **Ceiling Wares** - No less than 4 (12 wide) w/ 58 lb, (15 mm) rigid, gypsum board directly attached to joists or attached to framing channels as specified in the individual Floor-Ceiling Design. Max. clear of opening to be 2 in. (51 mm).

 d. **Chase Wall** - (Optional) - The penetrating (item 3) may be routed through the 1½ hr-rated ceiling, ducts or staggered wood studjoists below ceiling and wall constructed of the materials and in the manner specified in the individual ISO Series Wall and Partition Designs in the UL Fire Resistance Directory and shall include the following construction features:

 i. **Studs** - No less than 2 by 4 in. (51 by 152 mm) parallel 2 by 4 in. (51 by 152 mm) lumber studs.

 ii. **Base Plate** - No less than 2 by 4 in. (51 by 152 mm) parallel 2 by 4 in. (51 by 152 mm) lumber studs, tightly butted.

 iii. **Top Plate** - The double top plate shall consist of no less than 2 by 4 in. (51 by 152 mm) or two sets of parallel 2 by 4 in. (51 by 152 mm) lumber studs, tightly butted. Max. clear of opening to be 2 in. (51 mm).

 e. **Gap Filler** - Thickness, type, number of layers of filler material shall be as specified in individual Wall and Partition Designs.

2. **Cables** - One or more cables shall be installed either concentrically or eccentrically within the firestop system. Cables to be installed approximately midway between wood joists. Areas of openings shall overlap through flooring system and shall carry to sole and top plates of chase wall assembly to be no less than 10 (254 mm) larger than the inside diam of cable or cables. Cables shall be tightly supported on both sides of floor-ceiling assembly. The following types of cables and cables may be used:

 a. Max 100 pair no. 24 AWG (or smaller) copper conductor telephone cables with polyvinyl chloride (PVC) insulation and jacket materials.

 b. Max 3C (with ground) no. 20 AWG aluminum conductor power service entrance cables with PVC insulation and jacket materials.

 c. Max 3C (with ground) no. 12 AWG (or smaller) copper conductor nonmetallic sheathed (Romex) cables with PVC insulation and jacket materials.

The number of cables allowed within the opening and the hourly F Rating is dependent upon the type and size of cables as tabulated in Item 3A.



Specific Technologies Inc. 210 Evans Way Somerville, NJ 08876
Cablestop or firestop, January 2014



3A. **Through Penetrating Product*** - (Not Shown) - As an alternative to Item 3, fire through-penetrating product to be installed either concentrically or eccentrically within the firestop system. Cable to be installed eccentrically midway between wet joints. Dams of gaskets held together through firestop system by cutting and/or rolling and seal and plates of chase wall assembly to be min 3/8 in. (9.5 mm) thick. Firestop system to include steel dam of chase wall assembly to be tightly supported on both sides of a floor-assembly. The following types of through-penetrating products may be used:

- A. Max four conductor conductors No. 20 AWG (or smaller) aluminum or steel **Armored Cable*** or **Metal-Clad Cable***,
- B. Two or more insulated conductor No. 10 AWG (or smaller) **Power Limited Circuit Cable*** or without a jacket under a metal armor.
- C. Two or more insulated conductor No. 10 AWG (or smaller) **Power Limited Fire Alarm Cable*** or without a jacket under a metal armor.
- D. Two or more insulated conductor No. 12 AWG (or smaller) **Non Power Limited Fire Alarm Cable*** or without a jacket under a metal armor.

AF-CLCABLE SYSTEMS INC

The number of through penetrants permitted within the firestop system is dependent upon the type and size of through penetrant as tabulated below:

Type Of Through Penetrant	Max Number Of Penetrants	T RATING (hrs)
Telephone Cable	1	1
Service Entrance Cable	1	1
Armored Cable	1	3/4
Romex Cable	7	3/4
Metal Clad Cable, Power Limited Circuit Cable,	1	3/4
Non Power Limited Fire Alarm cable or		3/4
Power Limited Fire Alarm Cable		3/4

4. **Fill, Void or Cavity Material*** - Seal Min 3/4 in. (19 mm) thickness of all material applied within the annulus, flush with top surface of floor or soffit. min. 5/8 in. (15.9 mm) thickness of fill material also applied within the annulus of the ceiling or ceiling plate, flush with bottom surface of ceiling or lower top floor. When multiple cables are installed, the cables must be individually separated such that the sealant can be applied between the individual cables or to the 1, Ratings to apply.

SPRECHT TECHNOLOGIES INC - Specified Series R500 Sealant or Specified L2 Sealant

* Indicates such products shall be per UL or cUL, Certification Mark for jurisdictions employing the UL or cUL Certification (such as Canada), respectively.

Specified Technologies Inc. 210 Evans Way Somerville, NJ 08876
Represented courtesy of Underwriters Laboratories, Inc.
Created on: December 19, 2014



[illegible]

2A. **Through-Penetrating Product** – As an alternate to Item 2, max one through-penetrating product to be installed either concentrically or eccentrically within the firestop system. Through-penetrating product to be rigidly supported on both sides of wall assembly. The following types of through-penetrating products may be used:

- A. Max four copper conductors No. 4/0 AWG (or smaller) for metal aluminum or steel **Armored Cables** or **Metal-Clad Cables**. When armored or metal-clad cable is used, the **T Rating** is 12 hr.

APFC CABLE SYSTEMS IN:

- B. Two or more twisted copper conductors No. 6 AWG (or smaller) **Power Limited Circuit Cables** with or without a jacket under a metal armor. When **Power Limited Circuit Cables** is used, the **T Rating** is 12 hr.

APFC CABLE SYSTEMS IN:

- C. Two or more twisted copper conductors No. 10 AWG (or smaller) **Power Limited Fire Alarm Cables** with or without a jacket under a metal armor. When **Power Limited Fire Alarm Cables** is used, the **T Rating** is equal to the **F Rating** of the firestop system.

APFC CABLE SYSTEMS IN:

- D. Two or more twisted copper conductors No. 12 AWG (or smaller) **Non Power Limited Fire Alarm Cables** with or without a jacket under a metal armor. When **Non Power Limited Fire Alarm Cables** is used, the **T Rating** is equal to the **F Rating** of the firestop system.

APFC CABLE SYSTEMS IN:

- E. **Fill Void or Cavity Material** – Sealant or Putty - Min 5/8 in. thickness of fill material installed within annulus, flush with both surfaces of wall assembly. Additional fill material installed such that a min 1/4 in. diam crown is formed around the through-penetrant on both sides of the wall.

SPECIFIED TECHNOLOGIES INC. – Specified Series SSS Sealant, Specified Putty or Specified LCI Sealant

"Review the UL Classification Marking

showing the UL Listing Mark



System No. W-4-3076

ANBU147417 (ASTM E84)

1 Ratings – 1 and 2 Hr (See Item 1)

T Rating – 0 Hr

CANULC 5115

F Ratings – 1 and 2 Hr (See Item 1)

FT Rating – 0 Hr

FN Ratings – 1 and 2 Hr (See Item 1)

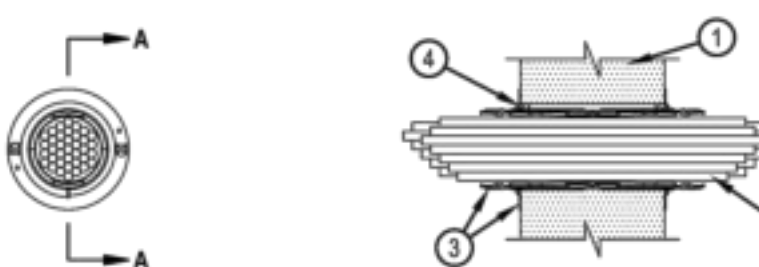
PTH Rating – 0 Hr

1. Wall Assembly. The 1 or 2 hr fire-rated gypsum wallboard/steel wall assembly shall be constructed of the materials and in the manner described in the Individual U200, U400 or V400 Series Wall and Partition Division in the UL Fire Resistance Directory and shall include the following construction details:

- Brads.** Wall framing may consist of either wood stud or steel channel stud. Wood studs to consist of nominal 2 by 4 in. (51 mm x 102 mm) lumber spaced 16 in. (406 mm) OC. Steel studs to be min 3 x 12 in. (89 mm wide and spaced max 24 in. (610 mm) OC.
- Gypsum board.** The gypsum board type, thickness, number of layers, fastener type and end orientation shall be as specified in the Individual U200, U400 or V400 Series Division in the UL Fire Resistance Directory. Guard of circular stud in gypsum board layers in each side of wall to be 1/2 in. (13 mm) inside of each side of light cable bundle (2 or 4). Max depth of opening = 4-1/2 in. (114 mm).

The hourly F Rating of the fire-resistance system is equal to the hourly fire rating of the wall assembly to which it is most damaged.

- Cables.** Max 4 in. (103 mm) inside bundle length of cables to be installed either concentrically or asymmetrically in circular columns in gypsum board opening. Cables to be rigidly supported on both sides of wall assembly. The square space within the framing system shall be a min 6 in. (g) port covered to a max 12 in. (305 mm). Any combination of the following types and sizes of cables may be used.
 - Max 100 V (20 AWG) or smaller copper conductor cable with polyethylene (PVC) insulation and jacket.
 - Max 1/2" - 3/8" (12.7 mm) (or smaller) copper conductor cable with cross-linked polyethylene (XLPE) jacket.
 - Max 200 AWG (or smaller) copper conductor cable with a XLPE insulation and PVC jacket.
 - Max 3/8" (9.5 mm) ground (N) 4 AWG (or smaller) nonmetallic sheathed (flexible) cable (or smaller) with copper conductor, polyvinyl chloride (PVC) insulation and jacket materials.
 - Max 3/8" (9.5 mm) ground (N) 200 AWG (or smaller) aluminum or copper conductor service entrance cable with PVC insulation and jacket materials.

 UL Listed UL Classified UL Classified UL Classified	System No. W-J-3167 ANULHU, IASTM E814	WJ 3167
	F Ratings – 3, 2 and 4 (See Items 1 and 2) F Ratings – 5, 12, 1-1/2 and 2 (See Items 3 and 4) F Rating A2 Ambient – (See Item 5) F Rating A200 – (See Item 6)	CANULC S115 F Ratings – 3, 2 and 4 (See Items 1 and 2) F Ratings – 12, 1, 1-1/2, and 2 (See Items 3 and 4) F Rating A2 Ambient – (See Item 5) F Rating A200 – (See Item 6)
		L Rating A2 Ambient – (See Item 5) L Rating A200 – (See Item 6)
1. Wall Assembly – Min 1/8 in. (127 mm) thick for 2 wall assemblies, min 5/8 in. (142 mm) thick for 3 wall assemblies, min 6-1/2 in. (165 mm) thick for 4 wall assemblies (minimum weight) or normal weight (100-150 or for 1600-2400 kg/m³) concrete. Wall may also be constructed of any J. Classified Concrete Block(s). Opening to be wall max 2-1/2 in. (64 mm) diameter for 2nd device and max 4-1/2 in. (114 mm) diameter for 4th device. See Concrete Blocks (CA71) category in the Fire Resistance directory for names of manufacturers. 2. Cables – Within the listing area for each fireproof device, the cables may represent a 1/8 inch (305 mm) vertical riser. Cables to be tightly bundled within the device and rigidly supported on both sides of all wall assemblies. Any combination of the following types of cables may be used: A. Max 10C 10, 25 AWG (or smaller) copper conductor telecommunications cable with polyimide jackets (PVC) jacketing and insulation. B. Max 70C 20, 25 AWG copper conductor control cable with PVC or PE-JPE jacketing and insulation. C. Max 60 AWG Type I/III control cable. D. Max 60 AWG Type I/III control cable with PTFE or PTFE jacketing. E. Max 60 AWG control cable with fluorinated ethylene insulation and jacketing. F. Fiber optic cable with polyimide sheath (PVC) or polyethylene sheath (PVC) jacket and insulation having a max diam of 1/2 in. (12.7 mm). G. Max 20C 20, 25 AWG preadvised prewarmer cable with PVC jacket. H. Through Penetrating Protection: Two copper conductors (No. 18 AWG) (or enameled) Power or Non Power Limited Fire Alarm Cable with or without a jacket under a metal armor. 3. Cable Cables – A. Max 1/4 in. (6.3 mm) diameter S-Video Cable consisting of 2 max 26 AWG 1/20 ohm core or twisted pair cables with PE insulation and PVC jacket. B. Through Penetrating Protection: Any, Cables, Metal-Cable or Annular Cable, currently Classified under the Through Penetrating Protection category. See Through Penetrating Product (OCL) category in the Fire Resistance directory for names of manufacturers. K. Max 30C 20, 25 AWG MC Cable.	Reproduced by HLT, Inc. Courtesy of Underwriters Laboratories, Inc. July 20, 2018 Page: 1 of 2	
		

[illegible]

System No. W-J-3190

WJ-3190

ANSI/UL1478 (ASTM E84)

CANULC S115

F Ratings – 2 and 3 hr (See Item 3)

F Ratings – 2 and 3 hr (See Item 3)

T Rating – 0 hr

FT Rating – 0 hr

FH Ratings – 2 and 3 hr (See Item 3)

FTH Ratings – 0 hr

- 1. Wall Assembly – Min 6 in. (152 mm) thick lightweight or normal weight (100-150 pcf or 1600-2000 kg/m³) concrete. Wall may also be constructed of any UL Classified Concrete Block[®]. Min dead air spacing of 4 in. (102 mm).
- 2. Cable – See Concrete Blocks (CBX) category in the Fire Resistance Directory for names of manufacturers.
- 3. Cable – Aggregate cross-sectional area of cable in opening to be max 40 percent of the cross-sectional area of the opening. The annular space between the cable bundle and the periphery of the opening to be min 1/8 in. (3.2 mm) cavity. Cables to be tightly bundled and lightly supported at both ends of the wall assembly. Any combination of the following types of cables of copper conductor cables may be used:
 - A. Max 10 pcf, 12 AWG (2 mm dia) MC and MC-B cables and jacket.
 - B. Max 20 pcf, 24 AWG telephone cable with PVC insulation and jacket.
 - C. Max 4 pcf, 22 AWG and 24 AWG C-amp cables.
 - D. Type TGGI coated cable with polyethylene (PE) insulation and PVC jacket having a max outside diameter of 1 in. (25.4 mm).
 - E. Max 80 pcf, 10 AWG shielded cable with fluorinated ethylene polymer and jacketing.
 - F. Multiair fiber optic communication cable jacketed with PVC and having a max O.D. of 5/8 in. (16 mm).
 - G. Max 60 pcf, 10 AWG shielded cable with PVC and jacketing.
 - H. Max 30 pcf, 10 AWG Metal-Clad Cable.
 - I. Max 30 pcf (not ground) or smaller than 8 AWG copper conductor cable with PVC insulation and jacketing.
- 4. When Permeating Product[®] is used – Fire material, Metal-Clad Cable or Armored Cable[®] currently Classified under the Permeating Product category.
- 5. Fill Void of Any Material[®] – Sealant – Fill cavities between the assembly, flush with both surfaces of wall, with a Min 5/8 in. (16 mm) thickness of sealant for 2 hr F Rating. A 1/2 in. (12.7 mm) thickness of sealant is required for the 3 hr F Rating. An additional 1/2 in. (12.7 mm) dead head of IFB material shall be applied at the point contact location of cable bundles/conduits/interfaces on both surfaces of wall.
- 6. HLT Construction Characteristics: DFL OF HLT CB – CPW60, PS-0 and PS-0-Ext MCW Intermittent Sealant.

* Indicates such products shall bear the UL or cUL Certification Mark for jurisdictions employing the UL or cUL Certification (such as Canada), respectively.

[®] Denoting by H.L. Lingo Mark

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October 14, 2015

Classified by
Intertek Testing Technology Inc.
in U.S.A., India and CONEXPO-CON/AGG

System No. W-L-521

CANULAC E119

F Rating ~2 Hr
T Rating ~3H Hr

CANULAC E119

F Rating ~2 Hr
FT Rating ~3H Hr
PH Rating ~2 Hr
PTH Rating ~3H Hr

SECTION A-A

- Wall Assembly ~ The 2 hr fire-rated gypsum board/shaft wall assembly shall be constructed of the materials and in the manner specified in the Introducing UNCL, VACO or WHAD Series Wall and Partition Designs in the UL Fire Resistance Directory and shall incorporate the following construction features:

- A. Steel Studs ~ "C" or "U" shaped studs, min 2-1/2 in. (64 mm) wide by 1-5/8 in. (41 mm) deep, fabricated from min No. 25 gauge (0.5 mm) galv steel, spaced max 24 in. (610 mm) OC.
- B. Gypsum Board ~ 1 - 1/2 in. (38 mm) thick, 24 in. (610 mm) wide gypsum liner panels installed vertically. Max diam of circular cutout in gypsum liner panel is 16-1/2 in. (417 mm).
- C. Gypsum Board ~ 1/2 in. (13 mm) or 5/8 in. (16 mm) thick, 48 in. (1219 mm) wide gypsum boards. The gypsum board type, thickness, number of layers, fastener type and placement orientation shall be as specified in the Individual Wall and Partition Design. Max diam of circular cutout in gypsum board is 16-1/2 in. (417 mm).

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January 25, 2015

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System No. W-L-5261

W-L-5261

A Metallic Duct – Cylindrical cross fabricated from 28 gauge (0.049) or heavier gage steel having a min 2 in. (51 mm) tap along longitudinal seam. Outside diam of sleeves to be tightly fitted with inside diam of opening. Joints with both surfaces of seal assembly.

3 Through-Penetrations – One metallic pipe or tubing to be installed either horizontally or eccentrically within the firestop system. Pipe or tubing to be tightly supported on both ends of wall assembly. The following types and sizes of penetrations or tubing may be used:

- A. Steel Pipe – Min 12 in. (305 mm) diam for schedule 40s (160) or heavier steel pipe.
- B. Iron Pipe – Min 12 in. (305 mm) diam for smaller and larger sizes.
- C. Copper Tubing – Min 8 in. (152 mm) diam for standard Type I, for heavier copper tubing.
- D. Copper Pipe – Min 8 in. diam (152 mm) for standard for heavier copper pipe.
- E. Pipe Covering Material – Cellular Glass Insulation – Min 2 in. (51 mm) thick cellular glass pipe insulation extend to the outside diam of the steel pipe and tapered to accordance with the manufacturer's instructions. Min 12 in. (305 mm) long jacket formed of min 0.010 in. (0.25 mm) thick steel or aluminum sheet cut to wrap tightly around the pipe insulation with a min 2 in. (51 mm) lap. Jacket secured with min 1/4 in. (1 mm) wide stainless steel hose clamp or band welded twice at 3 in. (51 mm) of each end of the jacket or fastened over the wall. The jacket is to be formed entire wall. The annular gasket shall be min 1/4 in. (6 mm) thick to min 1/4 in. (23 mm).

PITTSBURGH STEERING BOARD – FOAMGLASS

A Firestop System – The firestop system that consist of the following:

- A. Packing Material – Min 2-1/4 in. (57 mm) thickness of min 4.0 pcf (64 kg/m³) mineral wool batt insulation firmly packed into the opening as a permanent form for the firestop material to be recessed from the finished surface of wall to accommodate the required thickness of fill material.

B. Fill, Tied to Century Material – Sealed – Min 1 in. (25 mm) thickness of fill material applied within the annulus, back with the finished surface of wall.

C. Non Combustible Chemicals, DGL of MILITARY – FS-ONE Sealer of FS-ONE MAX (vaporproof Sealer)

D. Steel Cover Plate – Min 0.010 in. (0.25 mm) thick of min 1/4 in. (6 mm) diameter hole in (1/4 in.) beyond the perimeter of the opening. Seams of steel cover plate to run together to be centered on the plate and around entire circumference of the pipe covering. Steel cover plate shall tightly bolted and secured to the finished face of the wall by means of 3/16 in. (5 mm) of 1/4 in. (6 mm) diameter toggle bolts with steel washer.

* Indicates steel products shall bear the U.L. or c.d. Certification Mark for jurisdictions accepting the U.L. or c.d. Certification (such as Canada), respectively.

 Hilti Firestop Systems

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January 26, 2015

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	AN IHG HOTEL	HAMILTON COUNTY FISHERS, INDIANA 46037	ERLEN DR. & MINDEN DR.
UL PENETRATION DETAILS	UL PENETRATION DETAILS	UL PENETRATION DETAILS	UL PENETRATION DETAILS
ISSUE / REVISION DATE:	05/04/2022 OWNER REVIEW 06/23/2022 OWNER REVIEW 08/04/2022 PRELIMINARY REVIEW 01/13/2023 FRANCHISE REVIEW 04/21/2023 FRANCHISE REVIEW 05/17/2023 SAXONY DESIGN REVIEW 1 ● 09/18/2023 IHG FINAL REVIEW ● 11/17/2023 SAXONY DESIGN REVIEW 2 ● 01/26/2024 FOR CONSTRUCTION	SMR Project No. AWSFIN	BC2.6

CONSTRUCTION GENERAL SPECIFICATIONS

- A. ALL WORK SHALL BE IN STRICT ACCORDANCE WITH THE LATEST RULES OR STANDARDS INCLUDING, BUT NOT LIMITED TO: THE NATIONAL FIRE PROTECTION ASSOCIATION (NFPA), OCCUPATIONAL SAFETY AND HEALTH ACT (OSHA), U.S. CONSUMER PRODUCT SAFETY COMMISSION (CPSC), AMERICAN SOCIETY FOR TESTING AND MATERIALS (ASTM), UNDERWRITERS LABORATORIES (UL), FACTORY MUTUAL (FM), AMERICAN NATIONAL STANDARDS INSTITUTE (ANSI), AND THE LATEST APPLICABLE NATIONAL, STATE, AND LOCAL RULES, CODES, STATUTES (LEGISLATED LAWS), REGULATIONS, ORDINANCES, STANDARDS, AND GUIDELINES RELATING TO THE WORK. IN NO CASE SHALL WORK BE INSTALLED CONTRARY TO OR BELOW THE MINIMUM LEGAL STANDARD. ALL CONTRACTORS AND SUB-CONTRACTORS MUST BE VERY FAMILIAR WITH THE CODES AND STANDARDS ASSOCIATED WITH THEIR WORK AND THE MATERIALS AND METHODS.
- B. ALL WORK SHALL FOLLOW THE SHAPE OR ARRANGEMENT AND DIMENSIONS OF DRAWINGS AND MANUFACTURER SPECIFICATIONS AND INSTALLATION INSTRUCTIONS. ALL MATERIALS AND SHOP DRAWINGS SHALL BE REVIEWED AND STAMPED APPROVED BY THE DESIGN PROFESSIONAL BEFORE RELEASING FOR FABRICATION AND DELIVERY. THE DESIGN PROFESSIONAL AND OWNER MUST APPROVE ALL CHANGES, IN WRITING, BEFORE THEY ARE IMPLEMENTED.
- C. THE OWNER WILL SECURE AND PAY THE COST OF THE BUILDING PERMIT (UNLESS OTHERWISE AGREED TO IN WRITING), BY THE OWNER AND/OR SUB-CONTRACTOR PRIOR TO COMMENCEMENT OF WORK. THE COMPLETION OF WORK, AS APPLICABLE, THE GENERAL CONTRACTOR WILL PAY FOR LICENSES, TAXES, AND OTHER SERVICES FEES REQUIRED BY AUTHORITIES HAVING JURISDICTION OVER WORK IN THE CONTRACT. THE COST OF THIS WORK SHALL BE INCLUDED IN THE COST TO THE OWNER.
- D. THE OWNER IS TO EMPLOY AND PAY FOR SEPARATELY ONE OR MORE INDEPENDENT TESTING AGENCIES TO PROVIDE TESTING AND INSPECTIONS DURING CONSTRUCTION (INCLUDING SOIL COMPACTION, CONCRETE STRENGTH TESTS, STRUCTURAL SPECIAL INSPECTIONS (REFER TO STRUCTURAL SHEETS) OR OTHER TESTING OR INSPECTIONS REQUIRED BY THE CONTRACT DOCUMENTS). THE INSPECTOR IS TO BE A QUALIFIED PERSON WHO WILL DEMONSTRATE COMPETENCE TO THE SATISFACTION OF THE BUILDING OFFICIAL FOR INSPECTION OF THE PROJECT. THE INSPECTOR SHALL BE AVAILABLE FOR INSPECTION, THESE TESTS AND SPECIAL INSPECTIONS ARE IN ADDITION TO THE INSPECTIONS SPECIFIED IN SECTION 109 OF THE BUILDING CODE, WHICH ARE PROVIDED BY THE BUILDING DEPARTMENT AND THE CONTRACTORS'. THE GENERAL CONTRACTOR IS REQUIRED TO COORDINATE THESE TESTS AND SPECIAL INSPECTIONS WITH THE OWNER, THE SELECTED INDEPENDENT TESTING AGENCIES, AND THE DESIGN PROFESSIONAL.

- E. PLUMBING, FIRE PROTECTION, MECHANICAL, ELECTRICAL, OR OTHER SUB-CONTRACTOR WILL OBTAIN AND PAY FOR THEIR RESPECTIVE PERMITS AND INSPECTIONS AND WILL BE RESPONSIBLE FOR ANY ADDITIONAL DESIGN OR DRAWINGS REQUIRED TO OBTAIN PERMITS OR INSPECTIONS. THE COST OF THIS WORK SHALL BE INCLUDED IN THE COST TO THE OWNER.
- F. EACH CONTRACTOR OR SUB-CONTRACTOR SHALL CAREFULLY EXAMINE THE DRAWINGS, READ THE SPECIFICATIONS AND ALL OTHER PROPOSED CONTRACT DOCUMENTS, AND VISIT THE SITE OF THE WORK. EACH CONTRACTOR OR SUB-CONTRACTOR SHALL FULLY INFORM HIMSELF PRIOR TO COMMENCING WORK AS TO ALL EXISTING CONDITIONS AND LIMITATIONS UNDER WHICH THE WORK IS TO BE PERFORMED, AND SHALL INCLUDE IN HIS COST A SUM TO COVER ALL COSTS OF ALL ITEMS NECESSARY TO PERFORM THE WORK AS SET FORTH IN THE PROPOSED CONTRACT DOCUMENTS.
- G. ALL CONTRACTORS AND SUB-CONTRACTORS SHALL REVIEW ALL SHEETS, CONTRACT DOCUMENTS, AND SUB-CONTRACTORS ARE RESPONSIBLE FOR THE COMPLETED REVIEW, ITEMS AFFECTING ALL TRADES ARE PLACED THROUGHOUT THE SET OF DRAWINGS.
- H. THE CONTRACT DRAWINGS AND SPECIFICATIONS ARE INTENDED TO DESCRIBE AND PROVIDE FOR A FINISHED PECE OF WORK. THEY ARE INTENDED TO BE COOPERATIVE. WHAT IS CALLED FOR BY EITHER SHALL BE AS BINDING UPON THE CONTRACTOR AS IF CALLED FOR BY BOTH.
- I. IT IS UNDERSTOOD AND AGREED BY THE CONTRACTOR THAT HIS WORK SHALL BE COMPLETED IN EVERY DETAIL, EVEN THOUGH EVERY ITEM NECESSARILY INVOLVED IS NOT PARTICULARLY MENTIONED OR SPECIFIED IN THE CONTRACT DRAWINGS OR THE SPECIFICATIONS. THE CONTRACTOR SHALL PROVIDE ALL LABOR, MATERIALS, EQUIPMENT, SPECIAL APPLIANCES, AND SERVICES NECESSARY FOR THE COMPLETION OF THE WORK INTENDED TO BE DESCRIBED, AND SHALL NOT AVAIL HIMSELF OF ANY MANIFEST ERROR OR OMISSION, SHOULD SUCH EXIST.
- J. IF ANY PERSON IS IN DOUBT AS TO THE TRUE MEANING OF ANY PART OF THE PROPOSED CONTRACT DOCUMENTS, OR FINDS DISCREPANCIES IN OR OMISSIONS FROM ANY PART OF THE PROPOSED CONTRACT DOCUMENTS, HE MUST CONTACT THE DESIGN PROFESSIONAL FOR CLARIFICATION PRIOR TO COMMENCING OR CONTINUING WORK.

- K. EACH CONTRACTOR AND SUB-CONTRACTOR SHALL COORDINATE THEIR WORK WITH ADJACENT WORK PRIOR TO INSTALLATION TO AVOID CONFLICTS AND COOPERATE WITH ONE ANOTHER AND WITH OTHER TRADES TO FACILITATE GENERAL PROGRESS OF WORK. EACH TRADE SHALL AFFORD OTHER TRADES EVERY REASONABLE OPPORTUNITY FOR INSTALLATION OF THEIR WORK OR STORAGE OF THEIR MATERIALS.
- L. THE GENERAL CONTRACTOR SHALL SCHEDULE AND COORDINATE WORK OF ALL TRADES (INCLUDING PLUMBING, HVAC, AND ELECTRICAL CONTRACTORS). HE SHALL DIRECT APPROPRIATE STORAGE OF MATERIALS. HE SHALL COORDINATE AND EXPEDITE THE WORK OF ALL TRADES SO THAT PROGRESS OF THE PROJECT SHALL BE KEPT ON SCHEDULE.
- M. ANY CONTRACTOR OR SUB-CONTRACTOR MAY BE REQUIRED TO FURNISH EVIDENCE SATISFACTORY TO THE OWNER THAT HE HAS SUFFICIENT MEANS AND EXPERIENCE IN THE TYPES OF WORK CALLED FOR TO ASSURE COMPLETION OF THE CONTRACT IN A SATISFACTORY MANNER.
- N. ALL CONTRACTORS SHALL FURNISH TO THE OWNER COPY OF HAVING IN EFFECT LIABILITY INSURANCE, INCLUDING WORKMANS COMPENSATION, EMPLOYER LIABILITY, PUBLIC LIABILITY, PROPERTY LIABILITY, AND PERSONAL INJURY AUTO LIABILITY, PROPERTY DAMAGE, AND PERSONAL INJURY.
- O. PROCEDURES AND METHODS OF CONSTRUCTION SHALL BE THE SOLE RESPONSIBILITY OF THE GENERAL CONTRACTOR.
- P. IT SHALL BE UNDERSTOOD THAT THE DESIGN PROFESSIONALS' ON-SITE OBSERVATION OF THE WORK IS NOT INTENDED TO INCLUDE REVIEW OF THE ADEQUACY OF THE CONTRACTORS SAFETY MEASURES IN OR NEAR THE CONSTRUCTION SITE.
- Q. COMPLIANCE WITH ALL REGULATIONS PERTAINING TO SAFETY AND HEALTH IS THE SOLE AND COMPLETE RESPONSIBILITY OF EACH CONTRACTOR.
- R. MANUFACTURED ARTICLES, MATERIALS, AND EQUIPMENT SHALL BE APPLIED, INSTALLED, CONNECTED, ERECTED, USED, CLEANED, AND CONDITIONED AS PER MANUFACTURERS PRINTED SPECIFICATIONS AND DIRECTIONS, UNLESS SPECIFIED OTHERWISE.
- S. BEFORE ORDERING MATERIALS OR DOING WORK WHICH IS DEPENDENT FOR PROPER SIZE OR INSTALLATION ON COORDINATION WITH BUILDING CONDITIONS, TAKE MEASUREMENTS AT BUILDINGS AND BE RESPONSIBLE FOR SAME. NO CLAIM BASED ON DIFFERENCES BETWEEN ACTUAL DIMENSIONS AND THOSE SHOWN ON DRAWINGS WILL BE CONSIDERED. ANY DISCREPANCIES BETWEEN DRAWINGS OR SPECIFICATIONS AND EXISTING CONDITIONS SHALL BE REFERRED TO THE DESIGN PROFESSIONAL FOR ADJUSTMENT BEFORE ANY AFFECTED MATERIALS ARE ORDERED OR WORK IS STARTED.
- T. WHEN NEW WORK BECOMES INTRICATE AND CLOSELY ADJOINS EXISTING CONDITIONS, FIELD VERIFY LOCATIONS AND CONDITIONS. SHOULD ANY DISCREPANCIES OCCUR, IMMEDIATELY CONTACT THE DESIGN PROFESSIONAL FOR CLARIFICATION.
- U. EACH CONTRACTOR SHALL DO ALL CUTTING, FITTING, OR PATCHING OF HIS WORK THAT MAY BE REQUIRED TO MAKE ITS SEVERAL PARTS COME TOGETHER PROPERLY AND FIT TO RECEIVE OR BE RECEIVED BY THE WORK OF OTHER CONTRACTORS SHOWN OR REASONABLY IMPLIED BY THE DRAWINGS AND SPECIFICATIONS FOR THE COMPLETION OF ALL WORK CLASSIFICATION CONTRACTS AND SHALL BE MADE GOOD AFTER THEM AS THE DESIGN PROFESSIONAL MAY DIRECT.
- V. THE GENERAL CONTRACTOR SHALL FURNISH ALL MATERIALS, LABOR, TOOLS, TRANSPORTATION, INCIDENTALS, AND APPURTENANCES TO COMPLETE IN EVERY DETAIL AND LEAVE IN WORKING ORDER ALL UTILITIES CALLED FOR HEREIN OR SHOWN ON THE CONSTRUCTION DOCUMENTS. THIS INCLUDES, BUT IS NOT LIMITED TO: SANITARY SEWER, WATER SERVICES, GAS SERVICE, ELECTRIC SERVICES, INTERNET SERVICE, TELEPHONE SERVICE, AND CABLE TV SERVICE.
- W. THE GENERAL CONTRACTOR SHALL CONSTRUCT AND MAINTAIN THROUGH THE COURSE OF CONSTRUCTION ALL TEMPORARY CLOSURES REQUIRED TO PROTECT THE BUILDING FROM WEATHER, INFILTRATION, VANDALISM, UNAUTHORIZED ENTRANCE, DUST AND DIRT INFILTRATION, AND LOSS OF HEAT.

- X. **CONSTRUCTION SITE CONDITIONS:** THE CONTRACTOR SHALL AT ALL TIMES KEEP THE PREMISES IN A NEAT AND ORDERLY CONDITION. AT THE COMPLETION OF THE WORK OR AS DIRECTED BY THE DESIGN PROFESSIONAL, OR OWNER, EACH CONTRACTOR SHALL CLEAN UP AND REMOVE FROM THE PREMISES ALL ACCUMULATION OF DIRT, DEBRIS, EXCESS OR WASTE MATERIALS, AND RUBBISH CAUSED BY HIS EMPLOYEES.
- Y. **WARRANTIES:** CONTRACTOR SHALL WARRANT ALL WORK INSTALLED BY HIM OR HIS SUBCONTRACTORS TO BE FREE FROM DEFECT IN MATERIAL AND WORKMANSHIP FOR A PERIOD OF NOT LESS THAN ONE YEAR FOLLOWING THE DATE OF FINAL ACCEPTANCE. CONTRACTOR SHALL REPAIR OR REPLACE AT NO ADDITIONAL COST TO THE OWNER, ANY MATERIAL OR EQUIPMENT DEVELOPING DEFECTS AND SHALL ALSO MAKE GOOD ANY DAMAGE CAUSED BY SUCH DEFECTS OR THE CORRECTION OF DEFECTS.
- Z. **QUALITY:** WORKMANSHIP SHALL REPRESENT THE HIGHEST STANDARDS OF THE INDUSTRY. ALL MATERIALS AND EQUIPMENT SHALL BE IN STRICT ACCORDANCE WITH THIS SPECIFICATION AND/OR AS SHOWN ON THE DRAWINGS AND SHALL BE NEW, OF THE BEST GRADE AND QUALITY, WHEN TWO OR MORE ARTICLES OF THE SAME MATERIAL ARE REQUIRED, THEY SHALL BE OF THE SAME MANUFACTURER. ALL MATERIALS AND EQUIPMENT SHALL BE INSTALLED AND SUPPORTED IN A FIRST CLASS, WORKMANLIKE MANNER BY MECHANICS SKILLED IN THEIR PARTICULAR TRADES.
- PROVIDE EXAMINATION, PREPARATION, INSTALLATION, PROTECTION, CLEANING, MATERIALS, AND ACCESSORIES PER MANUFACTURERS PUBLISHED INSTALLATION INSTRUCTIONS, DETAILS, AND RECOMMENDATIONS.
- AA. **SHOP DRAWINGS:** REFER TO "SHOP DRAWINGS, PRODUCT DATA, AND SAMPLES GENERAL SPECIFICATIONS" FOR REQUIREMENTS.

- AB. UPON COMPLETION OF ALL WORK, THE CONTRACTOR OR SUBCONTRACTOR SHALL SUBMIT (2) COPIES OF THE MANUFACTURERS OPERATION AND MAINTENANCE MANUALS FOR ALL EQUIPMENT TO THE OWNER. THE CONTRACTOR SHALL PROVIDE THE OWNER A COMPLETE SET OF RECORD DRAWINGS WITH ANY AND ALL CHANGES OR MODIFICATIONS TO THE DESIGN, CONSTRUCTION, SYSTEMS, OR EQUIPMENT CLEARLY INDICATED, SHOP DRAWINGS, AND OTHER PERTINENT INFORMATION.
- AC. PROVIDE EXAMINATION, PREPARATION, INSTALLATION, PROTECTION, CLEANING, MATERIALS, AND ACCESSORIES PER MANUFACTURERS PUBLISHED INSTALLATION INSTRUCTIONS, DETAILS, AND RECOMMENDATIONS.
- AD. **SHOP DRAWINGS:** REFER TO "SHOP DRAWINGS, PRODUCT DATA, AND SAMPLES GENERAL SPECIFICATIONS" FOR REQUIREMENTS.
- AE. UPON COMPLETION OF ALL WORK, THE CONTRACTOR OR SUBCONTRACTOR SHALL SUBMIT (2) COPIES OF THE MANUFACTURERS OPERATION AND MAINTENANCE MANUALS FOR ALL EQUIPMENT TO THE OWNER. THE CONTRACTOR SHALL PROVIDE THE OWNER A COMPLETE SET OF RECORD DRAWINGS WITH ANY AND ALL CHANGES OR MODIFICATIONS TO THE DESIGN, CONSTRUCTION, SYSTEMS, OR EQUIPMENT CLEARLY INDICATED, SHOP DRAWINGS, AND OTHER PERTINENT INFORMATION.

GENERAL CONSTRUCTION NOTES

- A. THE LANDING AT EGRESS DOORS ARE REQUIRED TO BE AT THE SAME ELEVATION ON BOTH SIDES OF THE DOOR. THE LANDING AREA REQUIRED TO BE LEVEL EXCEPT FOR EXTERIOR LANDINGS, WHICH CAN HAVE A SLOPE NOT TO EXCEED A 2 PERCENT (1/4" PER FOOT) SLOPE.
- B. PROVIDE WOOD (FIRE RETARDANT TREATED IF THE CONSTRUCTION TYPE IS NON-COMBUSTIBLE) CONSTRUCTION OR METAL BLOCKING AT ALL WALL, OR CEILING ATTACHED ITEMS, ALL WOOD IN CONTACT WITH CONCRETE, MASONRY, OR THE GROUND TO BE PRESSURE TREATED. ALL BOLTS OR NAILS IN CONTACT WITH TREATED LUMBER TO BE STAINLESS STEEL, OR OTHERWISE SELECTED TO PREVENT CHEMICAL REACTION BETWEEN THE TREATED WOOD AND METAL FASTENERS.
- C. **SILL PLATES:** WOOD OR STEEL BEARING WALLS REQUIRE THE SILL PLATE TO BE BOLTED OR ANCHORED TO THE FOUNDATION WITH 1/2" MINIMUM DIAMETER ANCHORS. SILL PLATES SHALL BE 2" MINIMUM EMBEDMENT IN CONCRETE AT 48 INCHES O.C. EACH PACE REQUIRE A MINIMUM OF TWO (2) BOLTS WITH ONE BOLT OR ANCHOR LOCATED NOT MORE THAN 12 INCHES OR LESS THAN 4 INCHES FROM EACH END. A PROPERLY SIZED NUT AND WASHER SHALL BE TIGHTENED ON EACH BOLT TO THE PLATE.
- D. THERMAL AND SOUND INSULATING MATERIALS INCLUDING VAPOR RETARDERS REQUIRED A FLAME SPREAD INDEX OF 25 OR LESS AND A SMOKE DEVELOPMENT INDEX OF 450 OR LESS. THESE REQUIREMENTS DO NOT APPLY TO VAPOR RETARDERS, FACINGS OF CEILING, OR OTHER LAYERS OF REFLECTIVE FOIL THAT ARE INSTALLED BEHIND AND IN SUBSTANTIAL CONTACT WITH THE UNEXPOSED SURFACE OF THE CEILING, WALL, OR FLOOR FINISH IN BUILDINGS OF TYPE I (3), (4), AND (5) CONSTRUCTION.
- E. ROOFING CONTRACTOR SHALL SEAL AND FLASH ROOF PENETRATIONS THAT ARE NOT SHOWN IN ADDITION TO SHOWN PENETRATIONS, SUCH AS HATCHES, HVAC EQUIPMENT, AIR INTAKES, AND SANITARY VENTS). REFER TO ROOF PLAN, PLUMBING, MECHANICAL, AND ELECTRICAL SHEETS FOR ADDITIONAL INFORMATION.

- F. SUBMISSIONS SHALL BE IN ORDERLY SEQUENCE AND TIMED TO CAUSE NO DELAY IN THE WORK.
- G. JOB DELAYS OCCASIONED BY REQUIREMENT OF RESUBMISSION OF SHOP DRAWINGS, PRODUCT DATA, AND SAMPLES NOT IN ACCORD WITH CONTRACT DOCUMENTS ARE THE CONTRACTORS RESPONSIBILITY, AND WILL NOT BE CONSIDERED VALID JUSTIFICATION FOR EXTENSION OF TIME.
- H. GOMENCE NO PORTION OF WORK REQUIRING SUBMITTALS UNTIL SUBMITTAL HAS BEEN REVIEWED AND APPROVED BY THE ARCHITECT.

GENERAL NOTES

- A. DO NOT SCALE DRAWINGS. IF DIMENSIONS CANNOT BE DETERMINED OR DOCUMENTS ARE IN CONFLICT (WITH THEMSELVES OR FIELD CONDITIONS), THE CONTRACTOR MUST OBTAIN CLARIFICATION FROM THE ARCHITECT PRIOR TO CONTINUATION OF WORK.
- B. CONTRACTOR SHALL VISIT THE SITE TO ACQUAINT THEMSELVES WITH THE EXISTING OR NEWLY INSTALLED CONDITIONS. CONTRACTOR(S) SHALL FIELD VERIFY ALL DIMENSIONS, ELEVATIONS, UTILITIES, AND EXISTING OR NEWLY INSTALLED CONDITIONS PRIOR TO CONSTRUCTION.
- C. CONTRACTORS MUST IMMEDIATELY CONTACT THE ARCHITECT OR DESIGN PROFESSIONAL FOR CLARIFICATION OF ANY CONFLICTS OR DISCREPANCIES WITH ANY CODES OR BETWEEN EXISTING CONDITIONS AND THE DESIGN SHOWN ON THE DRAWINGS OR SPECIFICATIONS PRIOR TO CONTINUATION OF ANY WORK. THE ARCHITECT WILL NOT BE HELD RESPONSIBLE FOR ERRORS OR OMISSIONS IN THE DOCUMENTS IF WRITTEN NOTICE IS NOT RECEIVED BY THE ARCHITECT.
- D. THE CONSTRUCTION DOCUMENTS AND DRAWING NOTES / SPECIFICATIONS ARE INTENDED TO DESCRIBE AND PROVIDE FOR A FINISHED PECE OF WORK. THE WORK SHALL BE COMPLETED IN EVERY DETAIL, EVEN THOUGH EVERY ITEM NECESSARILY INVOLVED IS NOT PARTICULARLY MENTIONED OR SPECIFIED. ALL WORK SHALL BE INSTALLED AS SHOWN ON THE DRAWINGS AND / OR MANUFACTURERS SPECIFICATIONS AND INSTALLATION INSTRUCTIONS. IF ANY CONTRACTOR IS IN DOUBT AS TO THE TRUE MEANING OF ANY PART OF THE DOCUMENTS, OR FINDS DISCREPANCIES IN OR OMISSIONS FROM ANY PART OF THE DOCUMENTS, HE MUST CONTACT THE ARCHITECT FOR CLARIFICATION.
- E. WHERE CONFLICTS EXIST, AND ARE NOT CLARIFIED BY THE ARCHITECT, WITHIN OR BETWEEN PARTS OF THE CONSTRUCTION DOCUMENTS AND SPECIFICATIONS OR BETWEEN THE CONSTRUCTION DOCUMENTS OR SPECIFICATIONS AND APPLICABLE STANDARDS, CODES, AND ORDINANCES, THE MORE STRINGENT OR HIGHER QUALITY REQUIREMENTS APPLY AND ARE TO BE INCLUDED IN THE WORK. FURTHERMORE, IN THE REVIEW AND INTERPRETATION OF THE CONSTRUCTION DOCUMENTS AND SPECIFICATIONS, LARGE SCALE DRAWINGS TAKE PRECEDENCE OVER SMALL SCALE DRAWINGS, FIGURED DIMENSIONS ON THE DRAWINGS OVER SCALED DIMENSIONS, AND NOTED MATERIALS OVER GRAPHIC REPRESENTATION. ADDITIONALLY, ENGINEERING DOCUMENTS OR INTERIOR DESIGN DOCUMENTS TAKE PRECEDENCE OVER ARCHITECTURAL DOCUMENTS. HOWEVER, IN ALL CASES, THE CONTRACTOR MUST MAKE EVERY ATTEMPT TO OBTAIN CLARIFICATION FROM THE ARCHITECT PRIOR TO PROCEEDING WITH THE WORK.
- F. ALL DIMENSIONS ARE TO FACE OF STUD, CONCRETE, MASONRY, OR CENTERLINE OF COLUMN, UNLESS NOTED OTHERWISE. WHEN EXISTING CONDITIONS ARE SHOWN, DIMENSIONS ARE TO FACE OF EXISTING FINISH, UNLESS NOTED OTHERWISE.
- G. FINISH FLOOR ELEVATIONS ARE FOR GENERAL REFERENCE. REFER TO CIVIL SHEETS FOR ACTUAL FINISH FLOOR ELEVATIONS.
- H. REFER TO SHEETS BC1 & B8 AND BC13 FOR HANDICAP ACCESSIBILITY REQUIREMENTS.
- I. EQUIPMENT AND FURNITURE SHOWN IS FOR REFERENCE ONLY. EQUIPMENT AND FURNITURE PROVIDED BY OWNER (UNLESS NOTED OTHERWISE) SHALL COORDINATE EQUIPMENT AND FURNITURE INSTALLATION AND UTILITY CONNECTIONS WITH OWNER AND OWNERS SUPPLIER.

- J. **DEFINITIONS:**
NECESSARY: WORK NEEDED TO COMPLETE THE WORK TO "MAKE IT OPERATIONAL".
REQUIRED: WORK NEEDED TO BE IN COMPLIANCE WITH BUILDING CODE, GOVERNING CODE, OR JURISDICTION HAVING AUTHORITY.
PROVIDE: RESPONSIBLE FOR PURCHASE, DELIVERY, RECEIVING, INSPECTION, STORAGE, PREPARATION, AND INSTALLATION OF ITEMS).
FURNISH: RESPONSIBLE FOR PURCHASE AND DELIVERY OF ITEMS).
INSTALL: RESPONSIBLE FOR RECEIVING, INSPECTION, STORAGE, PREPARATION, AND INSTALLATION OF ITEMS).
- BASIS OF DESIGN:** AN ACCEPTABLE MANUFACTURER OR PRODUCT, DESIGNATED BY THE DESIGN PROFESSIONAL, WHICH EXHIBITS THE FOLLOWING PERFORMANCE CRITERIA THAT MUST BE MET FOR PERFORMANCE. THE ITEMS INDICATED MAY BE PROVIDED OR AN ITEM OF EQUIVALENT APPEARANCE, AESTHETIC, QUALITY, MATERIAL, CONSTRUCTION, AND PERFORMANCE MAY BE SUBSTITUTED SUBJECT TO THE ARCHITECTS OR DESIGN PROFESSIONALS' APPROVAL. (REFER TO THE "SUBSTITUTIONS" SPECIFICATION FOR ADDITIONAL INFORMATION).
- OR EQUAL:** MAY FOLLOW A "BASIS OF DESIGN" OR OTHER SPECIFIED MANUFACTURER OR PRODUCT AND INDICATES THAT AN ITEM OF EQUIVALENT APPEARANCE, AESTHETIC, QUALITY, MATERIAL, CONSTRUCTION, AND PERFORMANCE MAY BE SUBSTITUTED SUBJECT TO THE ARCHITECTS OR DESIGN PROFESSIONALS' APPROVAL. (REFER TO THE "SUBSTITUTIONS" SPECIFICATION FOR ADDITIONAL INFORMATION).

ALLOWABLE COMBUSTIBLE MATERIAL IN TYPE I OR II CONSTRUCTION

1. FIRE-RETARDANT-TREATED WOOD IS PERMITTED IN:
1.1. NON-BEARING PARTITIONS WHERE THE REQUIRED FIRE-RESISTANCE RATING IS 2 HOURS OR LESS.
1.2. NON-BEARING EXTERIOR WALLS WHERE NO FIRE RATING IS REQUIRED.
1.3. ROOF CONSTRUCTION, INCLUDING GROUND LEVEL ROOF DECKING.
EXCEPTION: IN BUILDINGS OF TYPE I(A) CONSTRUCTION EXCEEDING TWO STORIES ABOVE GRADE PLANE, FIRE-RETARDANT-TREATED WOOD IS NOT PERMITTED IN ROOF CONSTRUCTION WHEN THE VERTICAL DISTANCE FROM THE UPPER FLOOR TO THE ROOF IS LESS THAN 20 FEET.
2. THERMAL AND ACOUSTICAL INSULATION, OTHER THAN FOAM PLASTICS, HAVING A FLAME SPREAD INDEX OF NOT MORE THAN 25.
3. **EXCEPTIONS:**
A. INSULATION PLACED BETWEEN TWO LAYERS OF NON-COMBUSTIBLE MATERIALS WITHOUT AN INTERVENING AIRSPACE IS ALLOWED TO HAVE A FLAME SPREAD INDEX OF NOT MORE THAN 100.
B. INSULATION INSTALLED BETWEEN A FINISHED FLOOR AND SOA ID DECKING WITHOUT INTERVENING AIRSPACE IS ALLOWED TO HAVE A FLAME SPREAD INDEX OF NOT MORE THAN 200.
C. FOAM PLASTICS IN ACCORDANCE WITH CHAPTER 26 OF THE BUILDING CODE.
D. ROOF COVERINGS THAT HAVE A N.A. B, OR C CLASSIFICATION.
E. INTERIOR FLOOR FINISH AND FLOOR COVERING MATERIALS INSTALLED IN ACCORDANCE WITH SECTION 804 OF THE BUILDING CODE.
F. MILLWORK SUCH AS DOORS, DOOR FRAMES, WINDOW SASHES, AND FRAMES.
G. INTERIOR WALL AND CEILING FINISHES INSTALLED IN ACCORDANCE WITH SECTIONS 801 AND 803 OF THE BUILDING CODE.
H. TRIM INSTALLED IN ACCORDANCE WITH SECTION 806 OF THE BUILDING CODE.
I. WHERE NOT INSTALLED OVER 15 FEET ABOVE GRADE, SHOW WINDOWS, NAILING OR FURRING STRIPS, AND WOODEN BULKHEADS BELOW SHOW WINDOWS, INCLUDING THEIR FRAMES, APRONS, AND SHOW CASES FINISH FLOORING INSTALLED IN ACCORDANCE WITH SECTION 805 OF THE BUILDING CODE.
J. PARTITIONS DIVIDING PORTIONS OF STORES, OFFICES, OR SIMILAR PLACES OCCUPIED BY ONE TENANT ONLY AND THAT DO NOT ESTABLISH A CORRIDOR SERVING AN OCCUPANT LOAD OF 30 OR MORE PERSONS IS PERMITTED TO BE CONSTRUCTED OF FIRE-RETARDANT-TREATED WOOD, 1-HOUR FIRE-RESISTANCE-RATED CONSTRUCTION, OR OF WOOD PANELS OR SIMILAR LIGHT CONSTRUCTION UP TO 6 FEET IN HEIGHT, STAGES AND PLATFORMS CONSTRUCTED IN ACCORDANCE WITH SECTIONS 410.3 AND 410.4 OF THE BUILDING CODE, RESPECTIVELY.
K. COMBUSTIBLE EXTERIOR WALL COVERINGS, BALCONIES AND SIMILAR PROJECTIONS, AND BAY ORiel WINDOWS IN ACCORDANCE WITH CHAPTER 4 OF THE BUILDING CODE.
L. BLOCKING SUCH AS FOR HANDRAILS, MILLWORK, CABINETS, AND WINDOW AND DOOR FRAMES.
M. LIGHT-TRANSMITTING PLASTICS AS PERMITTED BY CHAPTER 26 OF THE BUILDING CODE.
N. MASTICS AND CAULKING MATERIALS APPLIED TO PROVIDE FLEXIBLE SEALS BETWEEN COMPONENTS OF EXTERIOR WALL CONSTRUCTION.
O. EXTERIOR PLASTIC VENEER INSTALLED IN ACCORDANCE WITH SECTION 2605.2 OF THE BUILDING CODE.
P. NAILING OR FURRING STRIPS AS PERMITTED BY SECTION 803.11 OF THE BUILDING CODE.
Q. HEAVYWEAR AS PERMITTED BY NOTE OF TABLE 601 AND SECTIONS 602.47 AND 1406.3 OF THE BUILDING CODE.
R. AGGREGATES, COMPONENT MATERIALS AND ADMIXTURES AS PERMITTED BY SECTION 703.2.2 OF THE BUILDING CODE.
S. SPRAYED FIRE-RESISTANT MATERIALS AND INTUMESCENT AND MASTIC FIRE-RESISTANT COATINGS DETERMINED ON THE BASIS OF FIRE-RESISTANCE TESTS IN ACCORDANCE WITH SECTION 703.2 OF THE BUILDING CODE AND INSTALLED IN ACCORDANCE WITH SECTIONS 1705.14 AND 1705.15 OF THE BUILDING CODE, RESPECTIVELY.
T. MATERIALS USED TO PROTECT PENETRATIONS IN FIRE-RESISTANCE-RATED ASSEMBLIES IN ACCORDANCE WITH SECTION 714 OF THE BUILDING CODE.
U. MATERIALS USED TO PROTECT JOINTS IN FIRE-RESISTANCE-RATED ASSEMBLIES IN ACCORDANCE WITH SECTION 715 OF THE BUILDING CODE.
V. MATERIALS ALLOWED IN THE CONCEALED SPACES OF BUILDING OF TYPE I AND II CONSTRUCTION IN ACCORDANCE WITH SECTION 716.5 OF THE BUILDING CODE.
W. MATERIALS EXPOSED WITH PLUMINGS COMPLYING WITH SECTION 802 OF THE MECHANICAL CODE.
X. WALL CONSTRUCTION OF FREEZERS AND COOLERS OF LESS THAN 1,000 SQUARE FEET IN SIZE, LINED ON BOTH SIDES WITH NONCOMBUSTIBLE MATERIALS AND THE BUILDING IS PROTECTED THROUGHOUT WITH AN AUTOMATIC SPRINKLER SYSTEM IN ACCORDANCE WITH SECTION 903.3.1.1.

SHOP DRAWINGS, PRODUCT DATA, AND SAMPLES GENERAL SPECIFICATIONS

- A. SHOP DRAWINGS, PRODUCT DATA, AND SAMPLE SUBMISSIONS SHALL BE PROCESSED IN ACCORDANCE WITH THE FOLLOWING: NFPA 704, SECTION A201, GENERAL CONDITIONS OF THE CONTRACT FOR CONSTRUCTION AND AS DESCRIBED BELOW.
- B. UNLESS OTHERWISE ARRANGED, THE SUBMISSION OF THE SHOP DRAWING, PRODUCT DATA, AND SAMPLE SUBMITTAL **SCHEDULE** TO THE ARCHITECT SHALL BE COMPLETED WITHIN FIFTEEN (15) CALENDAR DAYS AFTER AWARD OF THE CONTRACT.
- C. THE SUBMISSION OF ALL SHOP DRAWINGS, PRODUCT DATA, AND SAMPLES TO THE ARCHITECT SHALL BE COMPLETED IN ACCORDANCE WITH THE APPROVED SUBMITTAL SCHEDULE, OR IN THE ABSENCE OF AN APPROVED SUBMITTAL SCHEDULE WITHIN THIRTY (30) CALENDAR DAYS AFTER AWARD OF THE CONTRACT. UNLESS OTHER ARRANGEMENTS HAVE BEEN MADE WITH THE ARCHITECT AND OWNER AND AGREED TO IN WRITING.
- D. REASONABLE ADJUSTMENTS TO THE SUBMISSION SCHEDULE OR ALLOTTED TIME CAN BE MADE FOR SPECIAL SUBMISSIONS, IF REQUESTED BY THE CONTRACTOR OR SUBCONTRACTOR OR MATERIAL SUPPLIER THROUGH THE CONTRACTOR IN WRITING AND AGREED TO BY THE ARCHITECT AND OWNER IN WRITING PRIOR TO THE SUBMISSION OF THE SHOP DRAWING, PRODUCT DATA, AND SAMPLES. THESE ADJUSTMENTS DO NOT APPLY TO VAPOR RETARDERS, FACINGS OF CEILING, OR OTHER LAYERS OF REFLECTIVE FOIL THAT ARE INSTALLED BEHIND AND IN SUBSTANTIAL CONTACT WITH THE UNEXPOSED SURFACE OF THE CEILING, WALL, OR FLOOR FINISH IN BUILDINGS OF TYPE I (3), (4), AND (5) CONSTRUCTION.
- E. SUBMISSIONS SHALL BE IN ORDERLY SEQUENCE AND TIMED TO CAUSE NO DELAY IN THE WORK.
- F. JOB DELAYS OCCASIONED BY REQUIREMENT OF RESUBMISSION OF SHOP DRAWINGS, PRODUCT DATA, AND SAMPLES NOT IN ACCORD WITH CONTRACT DOCUMENTS ARE THE CONTRACTORS RESPONSIBILITY, AND WILL NOT BE CONSIDERED VALID JUSTIFICATION FOR EXTENSION OF TIME.
- G. GOMENCE NO PORTION OF WORK REQUIRING SUBMITTALS UNTIL SUBMITTAL HAS BEEN REVIEWED AND APPROVED BY THE ARCHITECT.
- H. **THE CONTRACTOR MUST REVIEW SHOP DRAWINGS, PRODUCT DATA, AND SAMPLES PRIOR TO SUBMISSION TO THE ARCHITECT. UNREVISED SUBMITTALS FORWARDED TO THE ARCHITECT WILL NOT BE ACCEPTED AND WILL BE RETURNED UNREVISED. ACCEPTABLE EVIDENCE OF REVIEW IS A SIGNED AND DATED SHOP DRAWING REVIEW STAMP AND HANDWRITTEN NOTED COMMENTS OR CORRECTIONS.**

DETERMINE AND VERIFY FIELD MEASUREMENTS, FIELD CONSTRUCTION, MATERIALS, CATALOG NUMBERS, AND SIMILAR DATA, CHECK AND COORDINATE EACH SUBMITTAL WITH REQUIREMENTS OF WORK AND OF CONTRACT DOCUMENTS.

NOTE: THE ARCHITECT IS NOT RESPONSIBLE FOR DETERMINING OR VERIFYING DIMENSIONS OR MEASUREMENTS IN THIS RESPONSE. THE CONTRACTOR IS RESPONSIBLE TO NOTIFY IF THE ARCHITECT PROVIDES DIMENSIONS OR MEASUREMENTS IN THE COURSE OF THEIR REVIEW, THIS SHALL IN NO WAY RELIEVE THE CONTRACTOR FROM RESPONSIBILITY AND SUCH DIMENSIONS OR MEASUREMENTS PROVIDED BY THE ARCHITECT ARE NOT VALID UNTIL REVIEWED AND APPROVED BY THE CONTRACTOR. RELIANCE UPON DIMENSIONS OR MEASUREMENTS PROVIDED BY THE ARCHITECT AND NOT VERIFIED AND APPROVED BY THE CONTRACTOR WILL NOT BE CONSIDERED VALID JUSTIFICATION FOR ADDITIONAL COST OR EXTENSION OF TIME.

WHERE WORK IS INDICATED BY OTHERS, THE CONTRACTOR SHALL INDICATE RESPONSIBILITY FOR PROVIDING AND COORDINATING SUCH WORK.

THE CONTRACTOR AGREES THAT SUBMITTALS PROCESSED BY THE ARCHITECT ARE NOT CHANGE ORDERS, THAT THE PURPOSE OF SUBMITTALS BY THE CONTRACTOR IS TO DEMONSTRATE THAT THE CONTRACTOR UNDERSTANDS DESIGN CONCEPT, THAT HE DEMONSTRATES HIS UNDERSTANDING BY INDICATING WHICH EQUIPMENT AND MATERIAL HE INTENDS TO FURNISH AND INSTALL, AND BY DETAILING FABRICATION OF INSTALLATION METHODS HE INTENDS TO USE.

THE CONTRACTOR REPRESENTS BY SUBMITTING SHOP DRAWINGS AND PRODUCT DATA THAT HE HAS COMPLIED WITH PROVISIONS SPECIFIED ABOVE. SUBMISSIONS MADE WITHOUT THE CONTRACTORS REVIEW INDICATED THEREON WILL BE RETURNED WITHOUT BEING REVIEWED FOR COMPLIANCE WITH THIS REQUIREMENT.

LABEL EACH SUBMITTAL AS TO INDICATE NAME OF PROJECT, ARCHITECT, CONTRACTOR, SUB-CONTRACTOR, OR, AS APPLICABLE, THE DESCRIPTION OR NAME OF EQUIPMENT, MATERIALS, OR PRODUCT, AND IDENTIFY LOCATION AT WHICH IT IS TO BE USED IN THE WORK.

ACCOMPANY SUBMITTAL WITH A TRANSMITTAL LETTER CONTAINING PROJECT NAME, CONTRACTORS NAME, NUMBER OF SAMPLES OR DRAWINGS, TITLES AND OTHER PERTINENT DATA. **TRANSMITTAL OR SUBMITTALS MUST INDICATE ANY DEVIATIONS FROM THE REQUIREMENTS OF CONTRACT DOCUMENTS.**

NOTE: THE ARCHITECT IS NOT RESPONSIBLE FOR DETERMINING OR LOCATING DEVIATIONS FROM THE REQUIREMENTS OF THE CONTRACT DOCUMENTS. THIS RESPONSIBILITY IS SOLELY THAT OF THE CONTRACTOR AND ITEMS NOT IDENTIFIED BY THE CONTRACTOR WILL NOT BE CONSIDERED VALID JUSTIFICATION FOR ADDITIONAL COST OR EXTENSION OF TIME.

- I. **ARCHITECTS DUTIES AND REVIEW:**
THE ARCHITECT SHALL REVIEW SUBMITTALS WITH REASONABLE PROMPTNESS SO AS TO CAUSE NO DELAY IN THE WORK, WHILE ALLOWING SUFFICIENT TIME IN THE ARCHITECTS PROFESSIONAL JUDGMENT TO PERMIT ADEQUATE REVIEW.

THE ARCHITECTS REVIEW IS ONLY FOR CONFORMANCE WITH DESIGN CONCEPT OF THE PROJECT AND WITH INFORMATION IN CONTRACT DOCUMENTS IN ACCORDANCE WITH AIA DOCUMENT A201, GENERAL CONDITIONS OF THE CONTRACT FOR CONSTRUCTION. FURTHER, THE ARCHITECTS REVIEW OF A SEPARATE ITEM SHALL NOT INDICATE APPROVAL OF AN ASSEMBLY IN WHICH ITEM FUNCTIONS.

THE ARCHITECTS REVIEW OF SUBMITTALS SHALL NOT RELIEVE THE CONTRACTOR OF RESPONSIBILITY FOR ANY DEVIATION FROM REQUIREMENTS OF CONTRACT DOCUMENTS UNLESS THE CONTRACTOR HAS INFORMED THE ARCHITECT IN WRITING OF SUCH DEVIATION. THE ARCHITECTS REVIEW SHALL IN NO WAY RELIEVE THE CONTRACTOR FROM RESPONSIBILITY FOR ERRORS OR OMISSIONS IN SUBMITTALS.

THE ARCHITECT WILL RETURN SUBMITTALS TO THE CONTRACTOR FOR DISTRIBUTION TO APPROPRIATE PARTIES.

- J. **ARCHITECTS ACTION:**
THE ARCHITECT WILL REVIEW EACH SUBMITTAL, MARK IT WITH APPROPRIATE ACTION, AND RETURN IT WITHIN FOURTEEN (14) CALENDAR DAYS OR SOONER, IF REQUESTED AND PRACTICABLE, OR RECEIPT, EXCEPT WHERE IT MUST BE HELD FOR COORDINATION, REVIEW BY ANOTHER CONSULTANT OR BY OWNER, AND THE CONTRACTOR IS SO ADVISED.

SUBMITTALS WILL BE MARKED BY ARCHITECT AS FOLLOWS:
REVIEWED - NO COMMENTS OR EXCEPTIONS NOTED: NO ADDITIONAL SUBMISSIONS OR REVIEW REQUIRED - PROCEED WITH THE WORK.
REVIEWED COMMENTS: QUALITY OF SUBMISSIONS NOTED. ADDITIONAL REVIEW MAY BE REQUIRED. CONTRACTOR, SUPPLIER, FABRICATOR TO REVIEW AND RESPOND BEFORE PROCEEDING WITH THE WORK.
EXCEPTIONS NOTED: CONTRACTOR, SUPPLIER, FABRICATOR TO REVIEW AND RESPOND AND REVISIONS AND TRANSMIT RECORD COPIES NO ADDITIONAL REVIEW REQUIRED - PROCEED WITH THE WORK. ITEMS NOTED FOR CORRECTION MUST NOT BE FABRICATED OR FURNISHED WITHOUT CORRECTIONS AS NOTED. THE ARCHITECT REQUIRES A RESUBMISSION EXHIBITING THE ITEMS IN A CORRECTED STATE.

REVIEW AND RESUBMIT: ADDITIONAL REVIEW IS REQUIRED - **DO NOT PROCEED WITH THE WORK** (THE SUBMISSIONS) (IS/ARE REJECTED AS NOT IN ACCORDANCE WITH THE CONTRACT REQUIREMENTS, OR FOR OTHER REASONS. THE SUBMISSION SHALL BE CORRECTED AND RESUBMITTED. NO ITEM IS TO BE FABRICATED OR FURNISHED UNDER THIS ACTION. **NOT REVIEWED** (THE SUBMISSIONS) (IS/ARE **NOT APPROVED BY THE ARCHITECT** AND IS/ARE BEING RETURNED TO THE CONTRACTOR UNREVISED FOR THE REASON NOTED ON THE SUBMITTAL. (THE SUBMISSIONS) MAY BE RETURNED UNREVISED IF NOT REQUESTED OR REQUIRED TO BE REVIEWED BY THE ARCHITECT, DESIGNER, OR ENGINEER, SUBMITTED IN AN INCOMPLETE FORM, OR NOT SUBMITTED IN ACCORDANCE WITH THE CONTRACT REQUIREMENTS, OR FOR OTHER JUSTIFIED CAUSE. THE CONTRACTOR IS RESPONSIBLE FOR ANY REQUIRED CORRECTIONS OR DRAWINGS, NOT PROVIDED BY THE ARCHITECT, DESIGNER, OR ENGINEER, REQUIRED TO OBTAIN PERMITS OR INSPECTIONS. THE COST OF THIS WORK SHALL BE INCLUDED IN THE COST TO THE OWNER.

- K. **REQUIRED SUBMITTALS:**
FOR DESIGN NOT PROVIDED BY ARCHITECT (SUBMITTAL REVIEW BY ARCHITECT IS STILL REQUIRED):
 - IRRIGATION SYSTEM DESIGN & DOCUMENTS (BY LANDSCAPE ARCHITECT)
 - INSULATION PLACEMENT AND SELECTION (BY MECHANICAL ENGINEER / SUPPLIER)
 - INTERIOR SIGNAGE SELECTION & DOCUMENTS (BY OWNERS SIGNAGE SUPPLIER)
 - EXTERIOR SIGNAGE DESIGN & DOCUMENTS (BY OWNERS SIGNAGE SUPPLIER / CONTRACTOR TO PROVIDE CONDUIT AND FINALS CONNECTIONS)
 - FURNITURE, FIXTURES, & EQUIPMENT (FF&E) SELECTION & DOCUMENTS (FURNISHED BY OWNER / INSTALLED BY CONTRACTOR)
 - SWIMMING POOL & SPA DESIGN AND CONSTRUCTION DOCUMENTS (BY POOL & SPA SUBCONTRACTOR / SUPPLIER)
 - KITCHEN EQUIPMENT LAYOUT AND EQUIPMENT SELECTION (KITCHEN EQUIPMENT SUBCONTRACTOR / SUPPLIER)
 - SMALLER CENTER EQUIPMENT LAYOUT AND SELECTION & DOCUMENTS (FURNISHED BY OWNER / CONTRACTOR TO INSTALL)

- SHOP DRAWINGS:**
 - ELECTRICAL
 - LINEN CLOUT / TRASH CHUTE
 - MILLWORK AND COUNTERTOPS
 - POWERED SLIDING OR SWINGING DOORS
 - TOILET OR BATHROOM ACCESSORIES
- CUT SHEETS FOR SHOP DRAWINGS:**
 - BRICK / MASONRY / STONE
 - FIBER CEMENT / EIFS
 - ROOFING MATERIALS (INCLUDING: TPO SINGLE-PLY ROOF SYSTEMS)

- SAMPLES OF EXTERIOR FINISHES:**
 - BRICK / MASONRY / STONE
 - FIBER CEMENT / EIFS
 - ROOFING MATERIALS (INCLUDING: TPO SINGLE-PLY ROOF SYSTEMS)

- SAMPLES OF INTERIOR FINISHES:**
 - FLOOR MATERIALS (INCLUDING: CERAMIC TILE, CARPET, BASE, ETC.)
 - WALL / CEILING TEXTURE
 - DOOR FINISHES / STAIN
 - MILLWORK FINISHES / STAIN

- STRUCTURAL (SAMPLES AND SHOP DRAWINGS OR SUBMITTALS, AS APPROPRIATE):**
 - CONCRETE MIX DESIGN PER ACI-308 FIELD EXPERIENCE OR TRIAL BATCH METHODS
 - REINFORCING STEEL IN CONCRETE WALLS, FOUNDATIONS, AND MASONRY WALLS
 - STRUCTURAL STEEL (INCLUDING BEAMS, COLUMNS, ETC.)
 - METAL ROOF AND FLOOR TRUSSES, WHICH SHALL BEAR THE SEAL OF A PROFESSIONAL ENGINEER REGISTERED IN THE STATE IN WHICH THE PROJECT IS CONSTRUCTED.
 - PANELIZED METAL STUD WALL SYSTEMS, WHICH SHALL BEAR THE SEAL OF A PROFESSIONAL ENGINEER REGISTERED IN THE STATE IN WHICH THE PROJECT IS CONSTRUCTED.
 - MISCELLANEOUS STEEL (INCLUDING STAIRS, HANDRAILS / GUARDRAILS, AND DAMPSTER ENCLOSURE GATES. THIS SUBMITTAL SHALL INCLUDE CALCULATIONS BEARING THE SEAL OF THE PROFESSIONAL ENGINEER REGISTERED IN THE STATE IN WHICH THE PROJECT IS CONSTRUCTED RESPONSIBLE FOR SUPERVISING PRODUCTION AND DESIGN / DETAILING OF THE STAIR, HANDRAIL AND GUARDRAIL.

- SHOP DRAWINGS:** REFER TO "SHOP DRAWINGS, PRODUCT DATA, AND SAMPLES GENERAL SPECIFICATIONS" FOR REQUIREMENTS.
- ALL STRUCTURAL STEEL FRAMES ARE NON-SELF-SUPPORTING. PROVIDE TEMPORARY BRACING UNTIL**

INSTALLATION

- INSTALLATION
 - MASONRY ACCESSORIES
- FIRE PROTECTION:**
 - DESIGN CALCULATIONS AND LAYOUT DRAWINGS, WHICH SHALL BEAR THE SEAL OF A PROFESSIONAL ENGINEER REGISTERED IN THE STATE IN WHICH THE PROJECT IS CONSTRUCTED.
 - PRODUCT CUT SHEETS FOR SPRINKLER HEADS, VALVES, FITTINGS, PIPE, HANGERS, AND SWITCHES
- PLUMBING:**
 - PLUMBING FIXTURES
 - PIPE AND FITTINGS, INCLUDING: PIPING, IF TO BE USED
 - PIPING IF REQUESTING SUBSTITUTION (REQUIRED FOR APPROVAL)

- HVAC:**
 - EQUIPMENT
 - CONTROLS
 - SAFETY SWITCHES
 - DIFFUSERS / GRILLES
- ELECTRICAL:**
 - FIXTURES (INTERIOR AND EXTERIOR) INCLUDING ACCESSORIES
 - LIGHTING AND EXCESS LIGHTING OR EQUIPMENT
 - FIRE ALARM DEVICES
 - SAFETY SWITCHES
 - ELECTRIC PANELS
 - MAIN SWITCHBOARD
 - MISCELLANEOUS ELECTRICAL DEVICES OR FIXTURES

- DIVISION 02 - EARTHWORK:**
REFER TO SECTIONS 0220-EARTHWORK - GENERAL, 0210-EARTHWORK - GRADING, 0220-EARTHWORK - EXCAVATION, 0230-EARTHWORK - UNDERGROUND UTILITIES AND TRENCHING, 0222-EARTHWORK - FILL AND COMPACTION ON THE "SP1" SHEETS FOR INFORMATION REGARDING EARTHWORK. INFORMATION IN THIS SECTION IS INTENDED TO BE COOPERATIVE WITH THE DIRECTIONS AND SPECIFICATIONS ON THE SPECIFICATION SHEETS. IF THERE ARE CONTRADICTIONS OR DISCREPANCIES BETWEEN THE SPECIFICATIONS AND THE INFORMATION ON THE STRUCTURAL SHEETS, THE STRUCTURAL SHEETS TAKE PRECEDENCE. BUT, THE CONTRACTOR MUST IMMEDIATELY CONTACT THE ARCHITECT AND NOTIFY HIM OF THE CONFLICT AND OBTAIN CLARIFICATION.

DIVISION 02 - BACKFILLING:
REFER TO SECTION 0222-EARTHWORK - FILL AND COMPACTION ON THE "SP1" SHEETS FOR ADDITIONAL INFORMATION REGARDING BACKFILLING. INFORMATION IN THIS SECTION IS INTENDED TO BE COOPERATIVE WITH THE DIRECTIONS AND SPECIFICATIONS ON THE SPECIFICATION SHEETS. IF THERE ARE CONTRADICTIONS OR DISCREPANCIES BETWEEN THE SPECIFICATIONS AND THE INFORMATION ON THE STRUCTURAL SHEETS, THE STRUCTURAL SHEETS TAKE PRECEDENCE. BUT, THE CONTRACTOR MUST IMMEDIATELY CONTACT THE ARCHITECT AND NOTIFY HIM OF THE CONFLICT AND OBTAIN CLARIFICATION.

UNLESS OTHERWISE INSTRUCTED BY THE GEOTECHNICAL ENGINEER OR A GEOTECHNICAL REPORT PREPARED FOR THIS SITE, PLACE BACKFILL PER THE FOLLOWING:
ONCE THE SUBGRADE HAS BEEN PROPERLY PREPARED, BACKFILL MATERIAL WILL BE PLACED IN ORDER TO ATTAIN THE DESIRED FINAL GRADE. IT IS ANTICIPATED THAT A WELL-GRADED "BANK RUN" SAND AND GRAVEL WITH LESS THAN 10% SILT OR CLAY (PASSING THE #200 SIEVE) WILL PERFORM WELL FOR THE STRUCTURAL BACKFILL. HOWEVER, THE SUITABILITY OF THE PROPOSED BACKFILL MATERIAL SHOULD BE COVERED BY LABORATORY TESTING. THE CONTRACTOR SHALL BE RESPONSIBLE FOR OBTAINING SUCH TESTING. BACKFILLING TAKES PLACE DURING THE WINTER MONTHS. CARE SHOULD BE TAKEN SO NOT TO PLACE BACKFILL OVER FROZEN SOIL, NOR SHOULD FROZEN MATERIALS BE USED WITHIN THE BACKFILL.

THE BACKFILL SHOULD BE PLACED IN LIFTS OF UNIFORM THICKNESS, UNLESS THE CONTRACTOR CAN DEMONSTRATE IN THE FIELD THAT THE REQUIRED COMPACTION CAN BE ACHIEVED FOR THICKER LIFTS. THE LOSS BACKFILL LIFT THICKNESS SHOULD NOT EXCEED 8 INCHES. WE RECOMMEND THAT THE STRUCTURAL BACKFILL BE COMPACTED TO 100% OF THE MAXIMUM STANDARD PROCTOR DRY DENSITY FOR PROPER AND TIMELY CONSTRUCTION OF THE FILLS. THE SOILS SHOULD BE PLACED AT OR NEAR THE OPTIMUM MOISTURE CONTENT AS DETERMINED BY THE SPECIFIED PROCTOR TEST. SUITABLE EQUIPMENT FOR COMPACTING OR ADJUSTING MOISTURE OF THE FILLS ARE RECOMMENDED. THE SOILS SHOULD BE MOISTURE AND WEATHER CONDITIONS DURING, ANY FILLS PLACED ON EXISTING SLOPES THAT ARE STEEPER THAN 1:1 HORIZONTAL TO 1 VERTICAL, SHOULD BE PROPERLY BENCHED INTO THE EXISTING SLOPE AS DIRECTED BY THE SOILS ENGINEER. SOILS ENGINEER SHALL HAVE CONTINUOUS SUPERVISION / APPROVAL OF FILL AND BEARING MATERIAL.

DIVISION 02 - FOUNDATIONS:
UNLESS OTHERWISE INSTRUCTED BY THE GEOTECHNICAL ENGINEER OR A GEOTECHNICAL REPORT PREPARED FOR THIS SITE, PLACE FOUNDATIONS PER THE FOLLOWING:
FOUNDATION ELEVATIONS SHOWN ARE FOR BIDDING PURPOSES AND MAY VARY TO SUIT SUB-SURFACE SOIL CONDITION.
FOOTINGS MAY BE PLACED WITHOUT SIDE FORMS IF EXCAVATED WALLS STAND APPROXIMATELY VERTICAL AND ARE AT LEAST 1-1/2 INCHES ABOVE CONCRETE NILES SHOWN ON PLANS.
ALL FOOTINGS SHALL BEAR ON LEVEL (WITHIN 1 IN 12) UNDISTURBED SOIL OR APPROVED ENGINEERED FILL.

REINFORCING STEEL SHALL BE ASTM A615 OR A616, GRADE 60.

CONTRACTOR SHALL CONTACT UTILITY COMPANIES FOR LOCATING UNDERGROUND SERVICES AND IS RESPONSIBLE FOR THEIR PROTECTION AND SUPPORT.

DIVISION 02 - CONCRETE:
REFER TO SECTION 0300-CAST-IN-PLACE CONCRETE ON THE "SP1" SHEETS FOR ADDITIONAL INFORMATION REGARDING CONCRETE. INFORMATION IN THIS SECTION IS INTENDED TO BE COOPERATIVE WITH THE DIRECTIONS AND SPECIFICATIONS ON THE SPECIFICATION SHEETS. IF THERE ARE CONTRADICTIONS OR DISCREPANCIES BETWEEN THE SPECIFICATIONS AND THE INFORMATION ON THE STRUCTURAL SHEETS, THE STRUCTURAL SHEETS TAKE PRECEDENCE. BUT, THE CONTRACTOR MUST IMMEDIATELY CONTACT THE ARCHITECT AND NOTIFY HIM OF THE CONFLICT AND OBTAIN CLARIFICATION.

CONCRETE WORK SHALL CONFORM TO THE RECOMMENDATIONS OF ACI-301, LATEST EDITION.
CONCRETE UNLESS NOTED OTHERWISE: F_c = 4,000 PSI AT 28 DAYS, NORMAL AGGREGATE.
CONCRETE FOR EXTERIOR FLAT WORK, WALKS, ETC.: F_c = 4,000 PSI AT 28 DAYS, AIR ENRICHED (5 1/2% ± 1/2%).
CONCRETE FOR FOOTINGS, F_c = 3,

PLUMBING

GENERAL SPECIFICATIONS

- A. UPON COMPLETION OF ALL PLUMBING WORK, THE CONTRACTOR SHALL SUBMIT TWO COPIES OF THE MANUFACTURERS OPERATION AND MAINTENANCE MANUALS FOR ALL EQUIPMENT TO THE OWNER. THE CONTRACTOR SHALL PROVIDE TO THE OWNER A COMPLETE SET OF RECORD DRAWINGS WITH ANY AND ALL CHANGES OR MODIFICATIONS TO THE DESIGN, CONSTRUCTION, SYSTEMS, OR EQUIPMENT CLEARLY INDICATED, SHOP DRAWINGS, AND OTHER PERTINENT INFORMATION.
- B. **GAS PIPING (IF INCLUDED IN THE PROJECT):** PLUMBING CONTRACTOR SHALL BE RESPONSIBLE TO PROVIDE GAS PIPING TO NEW EQUIPMENT (FURNACE, CONNECTION TO HVAC EQUIPMENT BY HVAC CONTRACTOR). PLUMBING CONTRACTOR TO COORDINATE INCLUDING VERIFICATION OF EXISTING SYSTEM EQUIPMENT, MAINS, LINE SIZES, AND REQUIREMENTS) AND GAS PIPING PER MANUFACTURERS RECOMMENDATIONS, LOCAL CODE, AND UTILITY COMPANY REQUIREMENTS, UNLESS PROVIDED OTHERWISE IN THE CONSTRUCTION DOCUMENTS. **DESIGN PROFESSIONAL TO REVIEW AND APPROVE GAS PIPING SIZING PRIOR TO INSTALLATION.** GAS PIPING TO BE INSTALLED PER NFPA 54, GAS PIPING ABOVE GROUND TO BE SCHEDULE 40, ASTM A53, GRADE 3 BLACK STEEL WITH 190 LB. BLACK STEEL, MALLEABLE FITTINGS.
- C. **DRAINAGE PIPING** SHALL BE INSTALLED AND PROPERLY SUPPORTED TO MAINTAIN THE REQUIRED ALIGNMENT. ANGULAR DIRECTION SHALL BE MADE WITH APPROVED FITTINGS. HORIZONTAL DRAINAGE PIPING SHALL HAVE A UNIFORM PITCH, AND VERTICAL DRAINAGE PIPING SHALL BE PLUMB. COORDINATION AND DESIGN OF THE DRAINAGE PIPING SYSTEM IS TO BE PROVIDED BY THE PLUMBING CONTRACTOR INCLUDING VERIFICATION OF EXISTING SYSTEM FITTINGS, MAINS, AND LINE SIZES AND REQUIREMENTS, UNLESS PROVIDED OTHERWISE IN THE CONSTRUCTION DOCUMENTS.
- D. **WATER DISTRIBUTION PIPING** SHALL BE INSTALLED TO MAINTAIN ALIGNMENT AND DISTINCT SEPARATION OF NOT LESS THAN FOUR INCHES AND BE PROPERLY SUPPORTED BY MATERIALS COMPATIBLE WITH THE PIPING MATERIAL. THE WATER DISTRIBUTION SYSTEM SHALL BE INSTALLED IN SUCH A MANNER AS TO ALLOW TOTAL EVACUATION OF THE SYSTEM. INSTALL ALL WATER DISTRIBUTION PIPING WITH ADEQUATE INSULATION PROPORTIONATE TO PIPE SIZE, COORDINATION AND DESIGN OF THE WATER DISTRIBUTION PIPING SYSTEM IS TO BE PROVIDED BY THE PLUMBING CONTRACTOR INCLUDING VERIFICATION OF EXISTING SYSTEM FITTINGS, MAINS, AND LINE SIZES AND REQUIREMENTS, UNLESS PROVIDED OTHERWISE IN THE CONSTRUCTION DOCUMENTS.
- E. **PIPES AND FITTINGS:**
1. **STORM WATER PIPING**
- ALL AREAS - EXCEPT UNDER DRIVEWAYS AND PARKING AREAS OR WHERE OTHERWISE INDICATED - PVC PER ASTM D3034, TYPE PSM SCHEDULE 36 PIPE AND FITTINGS WITH ELASTOMERIC JOINTS COMPLYING WITH ASTM D3212 AND SEALS PER ASTM F477.
- [ALTERNATE] ALL AREAS - EXCEPT WHERE OTHERWISE INDICATED - CAST IRON PER ASTM A74, SERVICE WEIGHT, HUB-AND-SPOUT SLOE PIPE AND FITTINGS, NEOPRENE COMPRESSION GASKETS PER ASTM C564.
- UNDER DRIVEWAYS AND PARKING AREAS AND WHERE OTHERWISE INDICATED - PVC PER ASTM D1784 AND ASTM D2666, SCHEDULE 40, DWV PIPE AND FITTINGS WITH SOLVENT CEMENT JOINTS PER ASTM D2855.
2. **SANITARY SEWER PIPING, OUTSIDE BUILDING, UNDERGROUND**
- ALL AREAS - EXCEPT UNDER DRIVEWAYS AND PARKING AREAS OR WHERE OTHERWISE INDICATED - PVC PER ASTM D3034, TYPE PSM SCHEDULE 36 PIPE AND FITTINGS WITH ELASTOMERIC JOINTS COMPLYING WITH ASTM D3212 AND SEALS PER ASTM F477.
- UNDER DRIVEWAYS AND PARKING AREAS AND WHERE OTHERWISE INDICATED - PVC PER ASTM D1784 AND ASTM D2666, SCHEDULE 40, DWV PIPE AND FITTINGS WITH SOLVENT CEMENT JOINTS PER ASTM D2855.
3. **SANITARY SEWER PIPING, INSIDE BUILDING, UNDER FLOOR**
- ALL AREAS - EXCEPT WHERE OTHERWISE INDICATED - PVC PER ASTM D1784 AND ASTM D2666, SCHEDULE 40, DWV PIPE AND FITTINGS WITH SOLVENT CEMENT JOINTS PER ASTM D2855.
- [ALTERNATE] ALL AREAS - EXCEPT WHERE OTHERWISE INDICATED - CAST IRON PER ASTM A74, SERVICE WEIGHT, HUB-AND-SPOUT SLOE PIPE AND FITTINGS, NEOPRENE COMPRESSION GASKETS PER ASTM C564.
4. **WATER PIPING, OUTSIDE BUILDING, UNDERGROUND**
- ALL AREAS - EXCEPT WHERE OTHERWISE INDICATED - **COPPER TUBING** PER ASTM B88, TYPE K, FITTINGS PER ASTM B122, WROUGHT COPPER JOINTS PER ASTM B32, SOLDER, GRADE 90A.
- [ALTERNATE] ALL AREAS - EXCEPT WHERE OTHERWISE INDICATED - PVC PER ASTM D1784, SCHEDULE 40, DWV PIPE WITH INTEGRAL BELL AND ELASTOMERIC SEALING RINGS, JOINTS SHALL COMPLY WITH ASTM D2646, PIPE SHALL HAVE CAST IRON DIAMETER FOR USE WITH DUCTILE IRON MECHANICAL JOINT FITTINGS.
5. **WATER PIPING, INTERIOR**
- ALL AREAS - EXCEPT WHERE OTHERWISE INDICATED - **COPPER TUBING** PER ASTM B88, TYPE K, BELOW SLAB, TYPE I ABOVE SLAB, FITTINGS PER ASTM B16, CAST IRON ALLOY OR PER ASTM B1622, WROUGHT COPPER JOINTS PER ASTM B32, SOLDER, GRADE 90A.
- VICTALUC FITTINGS MAY BE USED WHERE PERMITTED BY CODE.
- ALL AREAS - EXCEPT WHERE OTHERWISE INDICATED - **CHLORINATED POLYVINYL CHLORIDE (CPVC)** PIPING ABOVE SLAB USE ONLY. CONTRACTOR MUST CONTACT THE DESIGN PROFESSIONAL FOR REQUIREMENTS AND SPECIFICATIONS PRIOR TO INSTALLATION.
- R. ALL ROOF AND/OR EXTERIOR WALL PENETRATIONS ARE TO BE SEALED AIR AND WATER TIGHT, COORDINATE WITH THE GENERAL CONTRACTOR AND OTHER SUB-CONTRACTORS.

HVAC

GENERAL SPECIFICATIONS

- A. UPON COMPLETION OF ALL HVAC WORK, THE CONTRACTOR SHALL SUBMIT TWO COPIES OF THE MANUFACTURERS OPERATION AND MAINTENANCE MANUALS FOR ALL EQUIPMENT TO THE OWNER. THE CONTRACTOR SHALL PROVIDE TO THE OWNER A COMPLETE SET OF RECORD DRAWINGS WITH ANY AND ALL CHANGES OR MODIFICATIONS TO THE DESIGN, CONSTRUCTION, SYSTEMS, OR EQUIPMENT CLEARLY INDICATED, SHOP DRAWINGS, AND OTHER PERTINENT INFORMATION.
- B. **HVAC EQUIPMENT:** ALL EQUIPMENT SHALL BE COMPLETE IN EVERY RESPECT WITH ALL DEVICES, SUPPLEMENTS, AND ACCESSORIES PROVIDED TO MEET THE DESIGN INTENT AND OPERATION OF THE SYSTEMS SHOWN ON THE DRAWINGS AND SPECIFIED HEREIN. EQUIPMENT SHALL BE INSTALLED IN STRICT ACCORDANCE WITH THE MANUFACTURERS INSTRUCTIONS. ALL AIR CONDITIONING EQUIPMENT MUST HAVE A CONDENSATE DRAIN AND BE TRAPPED IN ACCORDANCE WITH MANUFACTURERS DATA. ALL COMPRESSORS ARE TO INCLUDE A 5-YEAR EXTENDED WARRANTY.
- C. **GAS PIPING (IF INCLUDED IN THE PROJECT):** PROVIDED BY THE PLUMBING CONTRACTOR TO NEW EQUIPMENT. FINAL CONNECTION BY HVAC CONTRACTOR. PLUMBING CONTRACTOR TO COORDINATE (INCLUDING VERIFICATION OF EXISTING SYSTEM EQUIPMENT, MAINS, LINE SIZES, AND REQUIREMENTS) AND GAS PIPING PER MANUFACTURERS RECOMMENDATIONS, LOCAL CODE, AND UTILITY COMPANY REQUIREMENTS, UNLESS PROVIDED OTHERWISE IN THE CONSTRUCTION DOCUMENTS. **DESIGN PROFESSIONAL TO REVIEW AND APPROVE GAS PIPING SIZING PRIOR TO INSTALLATION.** GAS PIPING TO BE INSTALLED PER NFPA 54, GAS PIPING ABOVE GROUND TO BE SCHEDULE 40, ASTM A53, GRADE 3 BLACK STEEL WITH 190 LB. BLACK STEEL, MALLEABLE FITTINGS.
- D. **REFRIGERANT LINE SET:** HVAC CONTRACTOR TO SIZE REFRIGERANT LINE SET SIZES PER MANUFACTURERS RECOMMENDATIONS AND FIELD CONDITIONS. EXCEEDING 150 FEET IN LENGTH REQUIRE A PUMP (SIZED AND PROVIDED BY THE HVAC CONTRACTOR).
- E. **NOISE AND VIBRATION:** MECHANICAL AND ELECTRICAL EQUIPMENT IS TO OPERATE WITHOUT UNDESIRABLE NOISE OR VIBRATION. ALL MOTOR OPERATED OR ROTATING EQUIPMENT MUST BE VIBRATION ISOLATED OR FREE FROM ALL BEAMS, COLLARS, FLOORS, CEILING, JOISTS, WALLS, AND PARTS OF THE BUILDING STRUCTURE. HANGERS, RODS FOR FLOOR, EQUIPMENT, AND DUCTWORK CONNECTED TO MOTORIZED OR ROTATING EQUIPMENT IS TO BE PROVIDED WITH KINETICS OR APPROVED EQUAL FIBERGLASS ISOLATOR HANGERS, PROVIDE FLEXIBLE COLLARS IN ALL CONNECTIONS BETWEEN VIBRATING EQUIPMENT (FANS, ROOF TOP UNITS, ETC.) AND DUCTS. THE FLEXIBLE CONNECTION IS TO BE RATED FOR THE OPERATING PRESSURE OF THE SYSTEM.
- F. **CURBS AND STEEL FRAMING FOR SUPPORT:** PROVIDED ALL NECESSARY CURBS AND STEEL FRAMING SHALL BE INSTALLED. ALL HVAC EQUIPMENT AS DESCRIBED OR INDICATED ON THE DRAWINGS, CURBS SHALL BE OF THE SAME MANUFACTURE OF THE EQUIPMENT SUPPORTED. INSULATE UNDER THE COMPRESSOR SECTION TO PREVENT CONDENSATION. ALL CURBS MUST BE INSTALLED SO THAT TOP OF CURBS ARE LEVEL.
- G. **DUCTWORK:** DUCTWORK IS TO BE FABRICATED WITH GALVANIZED SHEET STEEL (NO FIBERGLASS ALLOWED) IN ACCORDANCE WITH SMACNA HVAC DUCT CONSTRUCTION STANDARDS METAL, AND FLEXIBLE, AND MANA TUBULOUS GLASS DUCT CONSTRUCTION STANDARDS. LATEST EDITIONS, CONFORMING TO THE REQUIREMENTS IN THE REFERENCED STANDARD FOR METAL THICKNESS, REINFORCING TYPES AND INTERVALS, THE ROD APPLICATIONS, AND JOINT TYPES AND INTERVALS. ALL JOINTS, SEAMS, AND CONNECTIVITY ARE TO BE SECURED AND SEALED. ALL DUCTWORK IS TO BE IN COMPLIANCE WITH THE INTERNATIONAL ENGINEERING CONSERVATION CODE AND INTERNATIONAL MECHANICAL CODE.
- H. **BRANCH DUCTWORK:** ALL DUCT BRANCHES TO DIFFUSERS ARE TO BE RECTANGULAR OR ROUND RIGID DUCT. ALL BRANCH TAKEOFFS FROM RECTANGULAR MAINS TO BE CONNECTED TO SPIN COLLARS WITH SCOOPS AND QUADRANT DAMPERS.
- I. **FLEXIBLE DUCTWORK:** FLEX DUCTWORK IS TO BE NFPA 90A AND 90A APPROVED INCLUDING NO VINYL, TESTED IN ACCORDANCE WITH UL 181, AND LISTED AND LABELED AS CLASS 0 OR CLASS 1 DUCT. NO FLEX DUCT RUN TO EXCEED 25' MAXIMUM TOTAL LENGTH. ALL FLEX DUCTWORK IS TO BE INSTALLED IN VERTICAL AND STRAPPED PER MANUFACTURERS INSTRUCTIONS. FLEXIBLE AIR DUCT MAY ONLY BE USED IN TYPICAL APPLICATIONS WITH PRIOR APPROVAL FROM THE DESIGN PROFESSIONAL. **FLEXIBLE DUCTWORK IS NOT PERMITTED TO BE USED FOR RETURN DUCTWORK.**
- J. **DUCTWORK INSULATION:** INSTALL INSULATION PRODUCTS IN ACCORDANCE WITH THE MANUFACTURERS WRITTEN INSTRUCTIONS AND IN ACCORDANCE WITH THE REFERENCED INDUSTRIAL PRACTICES. INSULATION MUST COMPLY WITH NFPA 90A DUCT SIZES SHOWN ON DRAWINGS ARE INSIDE CLEAR DIMENSIONS. INSULATE ALL SUPPLY AIR DUCTWORK. RETURN AND EXHAUST AIR DUCTWORK ARE UNINSULATED (UNLESS NOTED IN AN UNCONDITIONAL SPACE). INSULATE DUCTWORK EXTERNALLY (P FOR TEMPERATURE AND CONDENSATION CONTROL) WITH A MINIMUM OF 1 1/2" THICK, 1.72 LB. DENSITY (R-8) DUCT WRAP WITH VAPOR BARRIER, GLUED AND PINNED TO THE DUCTWORK. VAPOR BARRIER IS TO BE MAINTAINED THROUGHOUT DUCT SYSTEM AND SHALL HAVE A MAXIMUM PERMEANCE OF 0.05 PERM OR BE A MINIMUM FOIL HAVING A MINIMUM THICKNESS OF 2 MIL PER MIC SECTION R-11. ALL JOINTS MUST BE TAPED WITH SMACNA APPROVED SILVER TAPE SO THAT NO INSULATION FIBER IS VISIBLE. EXTEND DUCTWORK INSULATION WITHOUT INTERRUPTION THROUGH WALLS, FLOORS, AND SIMILAR. INSULATE OR INSULATE MEANS NECESSARY TO PREVENT AIR LEAKAGE. INSULATE (P FOR SOUND CONTROL), INSULATE DUCTWORK WITH "NEOPRENE CAPPED INSULATION GLUED AND PINNED TO THE DUCTWORK ON THE INTERIOR. USE GASKETED AND BOLTED DUCTWORK JOINTS. MAINTAIN REQUIRED CLEARANCE TO ADJACENT WALLS, FLOORS, AND CEILING. INSULATE ALL EXHAUST DUCTWORK WITH 2" AND A SMOKE DEVELOPED RATING OF NO HIGHER THAN 50 WHEN TESTED IN ACCORDANCE WITH ASTM C411, OR AS REQUIRED BY LOCAL CODES.
- K. WHERE ROUND DUCTWORK IS INDICATED ON PLANS, PROVIDE RECTANGULAR DUCTWORK IF ROUND DUCTWORK CANNOT BE INSTALLED BECAUSE OF OBSTRUCTIONS, INSUFFICIENT CLEARANCES OR OTHER CAUSES DUE TO FIELD CONDITIONS. CONTRACTORS OPTION TO INSTALL RECTANGULAR DUCTWORK IN REQUIRED TO ROUND DUCTWORK AT OTHER LOCATIONS. SEE ALL RECTANGULAR AIR DUCTWORK CONVERSIONS COMPARABLE TO INDICATED DUCTWORK SIZE PER SMACNA HVAC DUCT CONSTRUCTION STANDARDS METAL AND FLEXIBLE. LATEST EDITION. SHOULD THE CONTRACTOR BE IN DOUBT OF THE REQUIREMENTS UNDER THIS SECTION, DUCTWORK SIZES OR SHOULD ANY DISCREPANCY IN THE SIZED BASED ON FIELD CONDITIONS, IMMEDIATELY CONTACT THE DESIGN PROFESSIONAL FOR CLARIFICATION.
- L. PROVIDE A FLEXIBLE CONNECTION BETWEEN BONNET AND RIGID DUCT ON ALL SUPPLY AND RETURN DUCTWORK.
- M. **DIFFUSERS, GRILLES, REGISTERS, AND DAMPERS:** PROVIDE DIFFUSERS, GRILLES, AND REGISTERS AS SCHEDULED. DEVICES TO BE COMPLETE WITH BALANCING DAMPERS, FRAMES, AND ALL ACCESSORIES. FINISH AS INDICATED. PROVIDE UL LISTED UL555 FIRE RATED DAMPERS AT ALL FIRE PARTITION OR FIRE BARRIER PENETRATIONS, WHETHER SHOWN OR NOT SHOWN ON THE PLANS. ALL GRAVITY DAMPERS REQUIRE SEALS.

FIRE PROTECTION

GENERAL SPECIFICATIONS

- A. UNLESS OTHERWISE OTHERWISE PROVIDED OR AGREED TO, THE FIRE PROTECTION CONTRACTOR SHALL BE RESPONSIBLE TO PROVIDE ALL REQUIRED DESIGN CALCULATIONS AND LAYOUT DRAWINGS REQUIRED TO OBTAIN PERMITS OR INSPECTIONS AND FOR INSTALLATION OF THE WORK. DESIGN CALCULATIONS AND LAYOUT DRAWINGS SHALL BEAR THE SEAL OF A PROFESSIONAL ENGINEER REGISTERED IN THE STATE IN WHICH THE PROJECT IS CONSTRUCTED. THE COST OF THIS SEAL SHALL BE INCLUDED IN THE COST TO THE OWNER. DESIGN CALCULATIONS, LAYOUT DRAWINGS, PRODUCT DATA SHEETS FOR SPRINKLER SYSTEMS, VALVES, FITTINGS, HANGERS, AND DUCTWORK SHALL BE SUBMITTED TO THE DESIGN PROFESSIONAL FOR REVIEW PRIOR TO PURCHASE OR INSTALLATION.
- B. UPON COMPLETION OF ALL FIRE PROTECTION WORK, THE CONTRACTOR SHALL SUBMIT TO THE OWNER A PROPERLY FILLED OUT SPRINKLER CONTRACTORS MATERIAL AND TEST CERTIFICATE COVERING THE ABOVE GROUND SYSTEM. TWO COPIES OF THE MANUFACTURERS OPERATION AND MAINTENANCE MANUALS FOR ALL EQUIPMENT TO THE OWNER. THE CONTRACTOR SHALL PROVIDE TO THE OWNER A COMPLETE SET OF RECORD DRAWINGS WITH ANY AND ALL CHANGES OR MODIFICATIONS TO THE DESIGN, CONSTRUCTION, SYSTEMS, OR EQUIPMENT CLEARLY INDICATED, SHOP DRAWINGS, AND OTHER PERTINENT INFORMATION.
- C. **PIPING:** ALL PIPE AND FITTINGS TO BE AS APPROVED BY NFPA 13, LATEST EDITION. **SPRINKLER PIPING** SHALL BE INSTALLED AND PROPERLY SUPPORTED TO MAINTAIN THE REQUIRED ALIGNMENT. ANGULAR CHANGES OF DIRECTION SHALL BE MADE WITH APPROVED FITTINGS AND THE ANGULAR DIRECTION OF THE FITTING SHALL BE MAINTAINED. HORIZONTAL PIPING SHALL HAVE A UNIFORM PITCH, AND VERTICAL PIPING SHALL BE PLUMB. COORDINATION AND DESIGN OF THE SPRINKLER PIPING SYSTEM IS TO BE PROVIDED BY THE FIRE PROTECTION CONTRACTOR INCLUDING VERIFICATION OF EXISTING SYSTEM FITTINGS, MAINS, AND LINE SIZES AND REQUIREMENTS, UNLESS PROVIDED OTHERWISE IN THE CONSTRUCTION DOCUMENTS.
- D. **TESTING:** TESTING IN ACCORDANCE WITH NFPA 13, LATEST EDITION. ALL PIPING AND DEVICES COMPRISING THE FIRE PROTECTION SYSTEM SHALL BE TESTED UNDER HYDROSTATIC PRESSURE OF NOT LESS THAN 200 PSI AND MAINTAINED FOR NOT LESS THAN TWO (2) HOURS OR AS OTHERWISE REQUIRED BY AUTHORITIES HAVING JURISDICTION.
- E. **INSTALLATION:** ALL WORK SHALL BE INSTALLED PER NFPA STANDARDS AND THE LATEST APPLICABLE NATIONAL, STATE, AND LOCAL RULES, CODES, STATUTES (LEGISLATED LAWS), REGULATIONS, ORDINANCES, STANDARDS, AND GUIDELINES RELATING TO THE WORK. IN NO CASE SHALL WORK BE PERFORMED IN VIOLATION OF ANY APPLICABLE NATIONAL, STATE, AND LOCAL CODES. THE CONTRACTOR MUST BE FAMILIAR WITH THE CODES AND STANDARDS ASSOCIATED WITH THEIR WORK.
- F. **REQUIRED EXPERIENCE:** NO CONTRACTOR OTHER THAN THOSE REGULARLY ENGAGED IN THE INSTALLATION OF APPROVED AUTOMATIC SPRINKLER SYSTEMS WILL BE CONSIDERED OR APPROVED FOR THE WORK UNDER THIS SECTION OF THE SPECIFICATIONS. BIDDERS MUST HAVE HAD NOT LESS THAN FIVE (5) YEARS EXPERIENCE IN THE FABRICATION AND ERECTION OF SUCH SYSTEMS AND SHALL HAVE COMPLETED INSTALLATIONS SIMILAR AND EQUIVALENT IN SCOPE TO THIS SYSTEM UNDER APPROVAL BY ONE OR MORE OF THE RECOGNIZED UNDERWRITING ASSOCIATIONS IN THE INSURANCE FIELD.
- G. WELDING IS AN OPTION TO THE CONTRACTOR.
- H. PAINTING IS NOT PART OF THIS CONTRACT.
- I. ELECTRICAL, WIRING IS NOT PART OF THIS CONTRACT. ADVISE THE GENERAL CONTRACTOR OF ANY ITEMS REQUIRING POWER (TO BE PROVIDED BY THE ELECTRICAL CONTRACTOR).
- J. ALL ROOF OR EXTERIOR WALL PENETRATIONS ARE TO BE SEALED AIR AND WATER TIGHT, COORDINATE WITH THE GENERAL CONTRACTOR AND OTHER SUB-CONTRACTORS. ALL EQUIPMENT, PIPES, DUCTS, ETC. ARE TO BE INSTALLED CONCEALED ABOVE THE CEILING OR IN THE WALLS, UNLESS SHOWN OTHERWISE.
- L. THE ELECTRICAL CONTRACTOR IS TO INSTALL ALL FIXTURES, SWITCHES, OUTLETS, ETC. IN ACCORDANCE WITH THE DIMENSIONS AND MOUNTING HEIGHTS SHOWN ON THE DRAWINGS.
- M. ALL ROOF OR EXTERIOR WALL PENETRATIONS ARE TO BE SEALED AIR AND WATER TIGHT, COORDINATE WITH THE GENERAL CONTRACTOR AND OTHER SUB-CONTRACTORS.

SPECIFICATION NOTES

- (ALL WORK NECESSARY NOT EXISTING)
- 00000 - AND 00000) INDICATES CUS MASTERFORMAT 1995 SPECIFICATION SECTION (PROVIDED) FOR REFERENCE ONLY.
- 0210-SUBSURFACE INVESTIGATION**
- REFER TO CIVIL ENGINEERING DRAWINGS FOR INFORMATION. IF INFORMATION IS NOT PROVIDED, CONTACT THE ARCHITECT FOR CLARIFICATION.
- BY **ALT & WITZIG ENGINEERING** AND IS DATED **SEPTEMBER 13, 2021**. THE REPORT WAS OBTAINED FOR THE OWNERS USE IN DESIGN AND IS NOT PART OF THE CONTRACT DOCUMENTS, UNLESS OTHERWISE INDICATED. A COPY OF THE REPORT IS AVAILABLE FOR THE CONTRACTORS REVIEW. THE REPORT DATA IS PROVIDED FOR INFORMATION ONLY. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE DESIGN OF THE SUBSURFACE CONDITIONS. THE CONTRACTOR IS RESPONSIBLE FOR THEIR REVIEW OF THE REPORT(S) AND INTERPRETATION OF THE DATA, AS WELL AS VISITING THE SITE AND ACQUAINTING THEMSELVES WITH ALL EXISTING CONDITIONS.
- 0210-SITE PREPARATION:**
- REFER TO CIVIL ENGINEERING DRAWINGS FOR INFORMATION. IF INFORMATION IS NOT PROVIDED, CONTACT THE ARCHITECT FOR CLARIFICATION.
- 0210-DEWATERING:**
- REFER TO CIVIL ENGINEERING DRAWINGS FOR INFORMATION. IF INFORMATION IS NOT PROVIDED, CONTACT THE ARCHITECT FOR CLARIFICATION.
- ADDITIONALLY, PROVIDE AND MAINTAIN THE FOLLOWING MINIMUM PRACTICES UNLESS THERE IS A CONFLICT WITH THE CIVIL ENGINEERING DRAWINGS, IN WHICH CASE CONTACT THE ARCHITECT FOR CLARIFICATION.
- A. REMOVE ALL WATER, INCLUDING RAINWATER, ENCOUNTERED DURING TRENCH AND SUBSTRUCTURE WORK TO AN APPROVED LOCATION BY PUMPS, DRAINS, AND OTHER PROVIDED MEANS.
- B. MAINTAIN PUMPS AND EQUIPMENT REQUIRED TO KEEP TRENCHES, EXCAVATIONS, AND SITE CONSTRUCTION AREA FREE AND CLEAR OF WATER AT ALL TIMES.
- C. DO NOT USE STORM OR SANITARY SEWER SYSTEMS FOR Dewatering UNLESS SO AUTHORIZED IN WRITING BY ALL GOVERNMENTAL AGENCIES HAVING JURISDICTION.
- 0220-EARTHWORK - GENERAL:**
- REFER TO CIVIL ENGINEERING DRAWINGS FOR INFORMATION. IF INFORMATION IS NOT PROVIDED, CONTACT THE ARCHITECT FOR CLARIFICATION.
- ADDITIONALLY, PROVIDE AND MAINTAIN THE FOLLOWING MINIMUM PRACTICES UNLESS THERE IS A CONFLICT WITH THE CIVIL ENGINEERING DRAWINGS, IN WHICH CASE CONTACT THE ARCHITECT FOR CLARIFICATION.
- A. COMPLY WITH THE REQUIREMENTS OF GOVERNMENTAL AGENCIES HAVING JURISDICTION. COMPLY WITH THE DIRECTIONS OF THE GEOTECHNICAL ENGINEER. IF CONFLICTS ARE ENCOUNTERED BETWEEN THE SUBSURFACE INVESTIGATION REPORT AND THE DRAWINGS OR SPECIFICATIONS, THE MORE STRINGENT REQUIREMENT TAKES PRECEDENCE.
- B. PROVIDE EQUIPMENT REQUIRED TO PROPERLY PERFORM EXCAVATION AND BACKFILL WORK. MAINTAIN SUCH EQUIPMENT IN A WORKABLE AND SAFE CONDITION DURING USE ON THE PROJECT. EXCAVATION AND BACKFILL WORK IS TO BE ALLOWED TO SETTLE DURING THE OPTIMUM PERIOD BECOMING AN "ATTRACTIVE NUISANCE" TO PEOPLE AND BEING ACCIDENTALLY OPERABLE. UNLESS OTHERWISE INDICATED OR ARRANGED, THE GENERAL CONTRACTOR WILL PROVIDE THE SERVICES AND PAY ALL COSTS OF AN INDEPENDENT GEOTECHNICAL ENGINEER TOOLS TESTING LABORATORY ACCEPTABLE TO THE ARCHITECT AND THE OWNER TO PERFORM LABORATORY, FIELD TESTING, AND INSPECTION FOR:
1. INSPECTION OF EXPOSED SUBGRADE WHERE THE BUILDING IS TO BE LOCATED TO DETERMINE WHETHER ANY SOFT OR YIELDING SPOTS EXIST.
2. INSPECTION OF FOUNDATION EXCAVATIONS PRIOR TO PLACING OF CONCRETE TO VERIFY BEARING SOIL SURFACES.
3. INSPECTION OF OPEN CUTS AND TRENCHES BEFORE INSTALLATION OF UTILITIES.
4. INSPECTION AND TESTING OF COMPACTED FILLS PRIOR TO PLACEMENT OF FOUNDATIONS OR FINAL MATERIALS.
5. TO ASSURE THAT DEFECTIVE WORK IS REMOVED AND PROPERLY REPLACED.
6. OTHER CONSTRUCTION MONITORING SERVICES TO ENSURE QUALITY CONTROL DURING EARTHWORK OPERATIONS.
- D. SUBMIT TO THE ARCHITECT REPORTS OF ALL SERVICES PERFORMED BY THE GEOTECHNICAL ENGINEER.
- E. IF DURING THE PROGRESS OF THE WORK, SOILS TESTING INDICATES COMPACTED MATERIALS DO NOT MEET SPECIFIED REQUIREMENTS, REMOVE DEFECTIVE WORK AND REPLACE AND TEST AT NO ADDITIONAL COST TO THE OWNER.
- F. PROTECT DRIVEWAYS, PARKING AREAS, AND ADJACENT PROPERTIES, STRUCTURES, AND UTILITIES (AS APPLICABLE FROM DAMAGE CAUSED BY SETTLEMENT, LATERAL MOVEMENT, UNDERMINING WASHOUTS, OR OTHER HAZARDS CREATED BY EARTHWORK OPERATIONS. NO CONSTRUCTION WORK IS TO BE PERMITTED TO OCCUR OR EXTEND INTO ADJACENT PROPERTIES. MAINTAIN ADJACENT PROPERTIES IN PRESENT CONDITION.
- G. FLOORS ARE IN PLACE AND ARE BEING SUFFICIENTLY STRENGTH TO SUPPORT THE WALLS.
- H. PROVIDE COMPACTION CONTROL FOR ALL FILLS AND BACKFILL INSIDE OF THE BUILDING INCLUDING TRENCHES, PARKING AREAS, AND NEW DRIVEWAYS. ENSURE COMPACTED MATERIALS ARE PLACED AND COMPACTED TO THE REQUIRED DENSITY AND MOISTURE CONTENT. THE GEOTECHNICAL ENGINEER A REPRESENTATIVE OF THE GEOTECHNICAL ENGINEER IS TO PROVIDE LABORATORY INSPECTION, TESTING, AND RECORDS FOR ALL EXCAVATION AND BACKFILL WORK. UNIFORM COMPACTION AND DENSITY OF EACH COURSE OR LIFT OF FILL OR BACKFILL.
- I. UNLESS THE GEOTECHNICAL ENGINEER REQUIRES MORE STRINGENT TESTING, PROVIDE AT LEAST THE FOLLOWING TESTS TO THE APPROVAL OF THE GEOTECHNICAL ENGINEER:
- 1.1 AT PAVED AREAS, AT LEAST (1) FIELD TEST FOR EVERY 1,000 SQUARE FEET OF PAVED AREA, BUT NOT LESS THAN (4) TESTS.
- 1.2 IN EACH COMPACTED FILL LAYER, (1) FIELD DENSITY TEST FOR EVERY 5,000 SQUARE FEET PER LIFT, BUT NOT LESS THAN (4) TESTS.
- 1.3 FOR TRENCHES, AT LEAST (1) FIELD DENSITY TEST FOR EVERY 500 LINEAL FEET OF TRENCH PER LIFT, BUT NOT LESS THAN (1) TEST PER LIFT.
- M. **TRENCHES**
- 1.1 TRENCHES UNDER PAVING ARE TO BE BACKFILLED USING 57 GRANULAR FILL, PLACED IN MAXIMUM 6 INCH LAYS AND COMPACTED TO A MINIMUM OF 98% STANDARD PROCTOR DENSITY.
2. ALL OTHER TRENCHES ARE TO BE BACKFILLED USING SUFFICIENT FILL, PLACED IN MAXIMUM 6 INCH LAYS AND COMPACTED TO MINIMUM PERCENT MAXIMUM DENSITY FOR ADJACENT AREA.
- N. **BUILDING AREA, EXTERIOR BUILDING EXPANSION AREAS, RAMPS AND STAIRS -** FILL PLACED WITHIN THE BUILDING AREAS WILL BE OFF-SITE BORROW (UNLESS OTHERWISE INDICATED) OR GRANULAR FILL (BANK RUN GRAVEL) PLACED IN MAXIMUM 6 INCH LAYS AND COMPACTED TO A MINIMUM OF 98% STANDARD PROCTOR DENSITY.
- O. PROVIDE A GRANULAR CUSHION OF 4 INCH MINIMUM DEPTH, NO 57 STONE, UNDER ALL PARKING-ON-GRADE AND OTHER PAVING, OR AS OTHERWISE INDICATED ON THE DRAWINGS.
- P. **SPACING AND DRIVE AREAS -** FILL PLACED WITHIN PARKING AND DRIVE AREAS WILL BE OFF-SITE BORROW (UNLESS OTHERWISE INDICATED) OR GRANULAR (BANK RUN GRAVEL) PLACED IN MAXIMUM 6 INCH LAYS AND COMPACTED TO A MINIMUM OF 100% STANDARD PROCTOR DENSITY FOR THE TOP 12 INCHES AND MINIMUM 95% STANDARD PROCTOR DENSITY BELOW THE TOP 12 INCHES.
- Q. **SIDEWALKS -** SIDEWALKS ARE TO BE FILLED USING SUFFICIENT FILL, PLACED IN MAXIMUM 6 INCH LAYS AND COMPACTED TO A MINIMUM 100% STANDARD PROCTOR DENSITY FOR THE TOP 12 INCHES AND MINIMUM 98% STANDARD PROCTOR DENSITY BELOW THE TOP 12 INCHES.
- R. **LAWN AREAS -** LAWN AREAS ARE TO BE FILLED USING SUFFICIENT FILL, COMPACTED TO A MINIMUM 90% STANDARD PROCTOR DENSITY.
- R. **TESTING FOR DISPLACEMENT:**
1. CHECK SECTIONS AND STORM DRAINS TO DETERMINE WHETHER DISPLACEMENT HAS OCCURRED. IF DISPLACEMENT HAS OCCURRED, THE SURFACE SHALL BE REPAIRED TO THE ORIGINAL FINISH AND BEEN COMPACTED AS SPECIFIED.
2. FLASH A LIGHT BETWEEN MANHOLES OR, IF MANHOLES DO NOT EXIST, BETWEEN THE ENDS OF EACH MANHOLE. IF THERE IS A SIGNIFICANT DISCREPANCY IN THE ELEVATION, THE SURFACE SHALL BE REPAIRED TO THE ORIGINAL FINISH AND BEEN COMPACTED AS SPECIFIED.
3. IF THE ILLUMINATED INTERIOR OF THE PIPE LINE SHOWS POOR ALIGNMENT, DISPLACED PIPES, OR ANY OTHER DEFECTS, CORRECT THE DEFECTS TO THE SPECIFIED CONDITIONS AND AT NO ADDITIONAL COST TO THE OWNER.
- 0230-TERMITE CONTROL:**
- PROVIDE AND EPA-REGISTERED TERMITICIDE, COMPLYING WITH REQUIREMENTS OF AUTHORITIES HAVING JURISDICTION, IN AN AQUEOUS SOLUTION FORMULATED TO PREVENT TERMITE INFESTATION. PROVIDE QUANTITY REQUIRED FOR APPLICATION AT THE LABEL VOLUME AND RATE FOR THE MAXIMUM TERMITE CONCENTRATION ALLOWED FOR EACH SPECIFIC USE. ACCORDING TO PRODUCTS EPA-REGISTERED TERMITICIDES: BORAX-BASED TERMITICIDE (SODIUM BORATE), D-DIMETHYL HYDROXYMETHYL TETRAHYDRATE (DOT); PENETRANT: PATENTED GYALCO MIXTURE.
- PERFORM ALL SITE GRADING INDICATED ON THE DRAWINGS, SHAPE THE SITE TO REFLECT FINISH GRADES.
- A. REMOVE ALL EXISTING TOPSOIL AND MATERIAL WITH ORGANIC CONTENT FROM WITHIN THE BUILDING AND PAVED AREAS.
- B. UNIFORMLY GRADE TO LINES AND LEVELS REQUIRED BY THE BUILDING AND SITE IMPROVEMENTS. GRADING TO BE DONE IN ACCORDANCE WITH THE FOLLOWING SUB-GRADE LEVELS (UNLESS OTHERWISE PROVIDED OR INDICATED):
1. CONCRETE SLABS ON GRADE - MINIMUM 6 INCHES BELOW BOTTOM OF SLAB.
2. DRIVEWAYS AND PARKING AREAS - AS REQUIRED FOR BASE THICKNESS.
3. SIDEWALKS - 5 INCHES BELOW FINISH GRADE.
4. LAWN AREAS - 4 INCHES BELOW FINISH GRADE.
- C. FINISH SURFACES ARE TO BE FREE FROM LIMPS OR EARTH, ROCK, STONES, OR OTHER IMPROPER MATERIALS.
- D. DISTRIBUTE TOPSOIL AT LAWN AREAS, PROVIDE A MINIMUM 4 INCHES TOPSOIL DEPTH OVER UNPAVED AREAS DISTURBED BY CONSTRUCTION AND MINIMUM 12 INCHES TOPSOIL DEPTH IN PLANTING AREAS.
- E. PROVIDE DRAINABLE, SMOOTH FINISH GRADES, SLOPING AND BLENDING GRADE TO REQUIRED FINISH LINES, SLOPE ALL GRADES AWAY FROM THE BUILDING AND ADJACENT PROPERTY FOR PROPER DRAINAGE AND TO PREVENT POONDING.
- F. TYPICAL EMBANKMENT SLOPE - 3 TO 1 MAXIMUM, UNLESS NOTED OTHERWISE.
- G. LEAVE IN A CONDITION FREE OF FOREIGN MATERIAL, READY FOR SEEDING OR SOILING, AS APPLICABLE.
- H. REMOVE FROM ALL SITE DEBRIS AND EXCESS EARTHWORK (UNLESS OTHERWISE INDICATED) OR DISTRIBUTE ON SITE AT ALL EXCESS EARTHWORK.
- I. PROTECT NEWLY GRADED AREAS FROM TRAFFIC AND EROSION AND KEEP FREE OF TRASH AND DEBRIS. REPAIR AND REESTABLISH GRASSES IN SETTLED, ERODED, AND RUINED AREAS. REFER TO SECTION 0220-SLOPE PROTECTION AND EROSION CONTROL FOR ADDITIONAL REQUIREMENTS.
- J. WHERE GRADIENTS ARE DISTURBED BY CONSTRUCTION OPERATIONS OR ADVERSE WEATHER, SCARIFY SURFACE, RESHAPE, AND COMPACT TO REQUIRED DENSITY.
- 0220-EARTHWORK - EXCAVATION:**
- REFER TO CIVIL ENGINEERING DRAWINGS FOR INFORMATION. IF INFORMATION IS NOT PROVIDED, CONTACT THE ARCHITECT FOR CLARIFICATION.
- ADDITIONALLY, PROVIDE AND MAINTAIN THE FOLLOWING MINIMUM PRACTICES UNLESS THERE IS A CONFLICT WITH THE CIVIL ENGINEERING DRAWINGS, IN WHICH CASE CONTACT THE ARCHITECT FOR CLARIFICATION.
- EXCAVATE TO DEPTHS AND DIMENSIONS INDICATED, AS DIRECTED BY A GEOTECHNICAL ENGINEER, OR OTHERWISE REQUIRED TO PERMIT THE CONSTRUCTION AND INSTALLATION OF FOUNDATIONS, SLABS, OR OTHER ELEMENTS OF THE CONSTRUCTION.
- A. CONTROL GRADING IN SUCH A MANNER AS TO ENSURE THAT THE SURFACE OF THE GROUND WILL BE PROPERLY SLOPED TO PREVENT WATER FROM RUNNING INTO THE EXCAVATED AREAS OR ADJACENT PROPERTIES. EXCAVATED AREAS ARE TO BE KEPT REASONABLY DRY AT ALL TIMES.
- B. EXTEND EXCAVATION A SUFFICIENT DISTANCE FROM FOUNDATIONS TO PERMIT PLACING AND REMOVING OF FORMWORK, WATERPROOFING, OTHER MATERIALS, SERVICES, AND INSPECTION. IF CONDITION OF EXCAVATION IS SUCH THAT TRENCH EXCAVATION ARE TO BE CUT NEAR TO LINES AND GRADES, PLACING CONCRETE (AFTER SOIL INSPECTION) DIRECTLY AGAINST THE BANK OF EXCAVATION WITHOUT FORMING, WHERE OTHER SERVICES OR MATERIALS ARE NOT REQUIRED. THE BOTTOMS OF ALL EXCAVATIONS ARE TO BE FREE FROM CAVEINS, SEEPING WATER, RAINWATER, ICE, FROST, OR SIMILAR CONDITIONS. REFER TO SECTION 0210-DEWATERING FOR ADDITIONAL REQUIREMENTS.
- C. FOUNDATION SUBGRADE MUST BE APPROVED BY THE GEOTECHNICAL ENGINEER BEFORE PROCEEDING WITH THE CONSTRUCTION OF FOOTINGS, PILES, AND FOUNDATION WALLS.
- D. SLOPE SIZES OF EXCAVATION TO COMPLY WITH APPLICABLE STANDARDS, LOCAL CODES, AND ORDINANCES HAVING JURISDICTION. EXCAVATION SHALL NOT PROCEED TO A DEEPER BECAUSE OF SPACE RESTRICTIONS OR STABILITY OF MATERIALS. PROVIDE SET, AND REMOVE ALL BRACING, SHORING, AND RELATED MATERIALS REQUIRED TO PREVENT CAVE-INS.
- E. BACKFILL AND FILL OVER EXCAVATIONS TO PROPER GRADES. FILL OVER EXCAVATION AT PROTECTIVE BACKFILL WITH APPROVED MATERIALS. ADDITIONAL LABOR AND MATERIAL FOR UNAUTHORIZED OVER-EXCAVATIONS WILL BE AT THE CONTRACTORS EXPENSE.
- G. ALL EXCAVATION WILL BE OFF-SITE REMOVED (UNLESS OTHERWISE INDICATED) AT DISPOSAL AREAS ARRANGED AND PAID FOR BY THE CONTRACTOR.
- 0222-EARTHWORK - FILL AND COMPACTION:**
- REFER TO CIVIL ENGINEERING DRAWINGS FOR INFORMATION. IF INFORMATION IS NOT PROVIDED, CONTACT THE ARCHITECT FOR CLARIFICATION.
- ADDITIONALLY, PROVIDE AND MAINTAIN THE FOLLOWING MINIMUM PRACTICES UNLESS THERE IS A CONFLICT WITH THE CIVIL ENGINEERING DRAWINGS, IN WHICH CASE CONTACT THE ARCHITECT FOR CLARIFICATION.
- A. PERFORM PLACEMENT OF FILL AND BACKFILL FOR EXCAVATIONS AS EARLY IN THE CONSTRUCTION AS POSSIBLE BUT NOT UNTIL COMPLETION OF THE FOLLOWING:
1. REMOVAL OF FORMWORK, SHORING, AND BRACING, WATERPROOFING WALLS, AND BACKFILLING OF ALL VOID SPACES WITHIN EXCAVATIONS.
2. REMOVAL OF RUBBISH AND DEBRIS FROM AREAS TO BE FILLED OR BACKFILLED.
3. OBSERVATION BY THE ARCHITECT OF CONSTRUCTION BELOW OR BEHIND FINISH GRADE INCLUDING FOUNDATION WALLS, DRAINAGE SYSTEMS, DAMS, PROOFING, WATERPROOFING, AND PERIMETER INSULATION, AS INDICATED ON THE DRAWINGS.
4. CAST-IN-PLACE CONCRETE WORK HAS ATTAINED SUFFICIENT STRENGTH.
5. UNDERGROUND PIPING SYSTEMS OR OTHER WORK REQUIRING TESTING AND INSPECTION FOR COMPLIANCE WITH GOVERNING AUTHORITIES HAVING JURISDICTION.
6. GROUND SURFACE PREPARATIONS.
7. REMOVE VEGETATION, DEBRIS, UNSATISFACTORY SOIL MATERIALS, OBSTRUCTIONS, AND DELETERIOUS MATERIALS AS REQUIRED BY THE ARCHITECT.
8. FLOW, STRIP, OR BREAK UP SLOPED SURFACES STEEPER THAN 1 VERTICAL TO 4 HORIZONTAL, SO THAT FILL MATERIAL WILL BOND WITH THE EXISTING SURFACE.
9. WHEN THE EXISTING GROUND SURFACE HAS A DENSITY THAT IS LESS THAN THAT SPECIFIED FOR COMPACTING THE PARTICULAR AREA, BREAK UP THE GROUND SURFACE, PLUVEZIZE, MOISTURE-CONDITION TO THE OPTIMUM MOISTURE CONTENT, AND COMPACT TO REQUIRED BOLD AND PERCENTAGE OF MAXIMUM DENSITY.
- C. FILLED AREAS ARE TO BE ALLOWED TO SETTLE DURING THE BUILDING CONSTRUCTION PERIOD AND THEN TO BE RESHAPED AT THE END OF THAT PERIOD. FLOOD, PONDING, OR JETTING WITH WATER ARE NOT TO BE USED.
- D. THE SUB-OR-GRADE ARE NOT TO BE PLACED UNTIL THE BUILDING PERIMETER HAS BEEN PERMITTED TO SETTLE A MINIMUM OF 3 WEEKS FROM THE FILL.
- E. MATERIALS FOR FILL SHALL CONSIST OF APPROVED MATERIAL AS DESCRIBED IN SECTION 0220-EARTHWORK - GENERAL. UNLESS OTHERWISE INDICATED, ALL FILL AREAS NOR FILL MATERIAL PLACED UPON MUD OR FROZEN GROUND.
- F. PRIOR TO PLACING FILL, BUILDING AND PAVING AREAS ARE TO BE PROOF ROLLED WITH ON-SITE EQUIPMENT, ANY SOFT OR YIELDING SPOTS ENCOUNTERED, AS VERIFIED BY A GEOTECHNICAL ENGINEER, ARE TO BE REMOVED AND REPLACED WITH PROPER MATERIALS COMPACTED AS REQUIRED OR INDICATED. AFTER PROOF ROLLING, THE AREAS ARE TO BE RE-INSPECTED BY THE GEOTECHNICAL ENGINEER.
- G. UNLESS OTHERWISE RECOMMENDED BY THE GEOTECHNICAL ENGINEER AND WITH THE ARCHITECTS APPROVAL, PLACE FILL AND BACKFILL MATERIAL IN LAYERS NOT EXCEEDING THE THICKNESS INDICATED AND IN NO CASE NOT MORE THAN 8 INCHES IN LOOSE DEPTH, BEFORE COMPACTING. MOISTEN TO OBTAIN THE MOISTURE CONTENT OF EACH COURSE OR LIFT OF FILL TO THE MOISTURE CONTENT, COMPACT EACH LAYER TO THE SPECIFIED MINIMUM PERCENTAGE OF MAXIMUM DENSITY FOR THE AREA.
- H. TAKE CARE TO PREVENT DAMAGE TO PIPES OR PIPE COATINGS DURING BACKFILLING AND BEDDING OPERATIONS.
- I. TAKE CARE TO PREVENT WEDGING ACTION OF BACKFILL AGAINST STRUCTURES BY CARRYING THE MATERIAL UNIFORMLY AROUND THE STRUCTURE TO APPROXIMATELY THE SAME ELEVATION IN EACH LIFT.
- J. WHERE THE CONSTRUCTION INCLUDES BASEMENT OR OTHER UNDERGROUND WALLS HAVING STRUCTURAL FLOORS OVER THEM, DO NOT BACKFILL SUCH WALLS UNTIL THE STRUCTURAL FLOORS ARE IN PLACE AND ARE BEING SUFFICIENTLY STRENGTH TO SUPPORT THE WALLS.
- K. PROVIDE COMPACTION CONTROL FOR ALL FILLS AND BACKFILL INSIDE OF THE BUILDING INCLUDING TRENCHES, PARKING AREAS, AND NEW DRIVEWAYS. ENSURE COMPACTED MATERIALS ARE PLACED AND COMPACTED TO THE REQUIRED DENSITY AND MOISTURE CONTENT. THE GEOTECHNICAL ENGINEER A REPRESENTATIVE OF THE GEOTECHNICAL ENGINEER IS TO PROVIDE LABORATORY INSPECTION, TESTING, AND RECORDS FOR ALL EXCAVATION AND BACKFILL WORK. UNIFORM COMPACTION AND DENSITY OF EACH COURSE OR LIFT OF FILL OR BACKFILL.
- L. UNLESS THE GEOTECHNICAL ENGINEER REQUIRES MORE STRINGENT TESTING, PROVIDE AT LEAST THE FOLLOWING TESTS TO THE APPROVAL OF THE GEOTECHNICAL ENGINEER:
- 1.1 AT PAVED AREAS, AT LEAST (1) FIELD TEST FOR EVERY 1,000 SQUARE FEET OF PAVED AREA, BUT NOT LESS THAN (4) TESTS.
- 1.2 IN EACH COMPACTED FILL LAYER, (1) FIELD DENSITY TEST FOR EVERY 5,000 SQUARE FEET PER LIFT, BUT NOT LESS THAN (4) TESTS.
- 1.3 FOR TRENCHES, AT LEAST (1) FIELD DENSITY TEST FOR EVERY 500 LINEAL FEET OF TRENCH PER LIFT, BUT NOT LESS THAN (1) TEST PER LIFT.
- M. **TRENCHES**
- 1.1 TRENCHES UNDER PAVING ARE TO BE BACKFILLED USING 57 GRANULAR FILL, PLACED IN MAXIMUM 6 INCH LAYS AND COMPACTED TO A MINIMUM OF 98% STANDARD PROCTOR DENSITY.
2. ALL OTHER TRENCHES ARE TO BE BACKFILLED USING SUFFICIENT FILL, PLACED IN MAXIMUM 6 INCH LAYS AND COMPACTED TO MINIMUM PERCENT MAXIMUM DENSITY FOR ADJACENT AREA.
- N. **BUILDING AREA, EXTERIOR BUILDING EXPANSION AREAS, RAMPS AND STAIRS -** FILL PLACED WITHIN THE BUILDING AREAS WILL BE OFF-SITE BORROW (UNLESS OTHERWISE INDICATED) OR GRANULAR FILL (BANK RUN GRAVEL) PLACED IN MAXIMUM 6 INCH LAYS AND COMPACTED TO A MINIMUM OF 98% STANDARD PROCTOR DENSITY.
- O. PROVIDE A GRANULAR CUSHION OF 4 INCH MINIMUM DEPTH, NO 57 STONE, UNDER ALL PARKING-ON-GRADE AND OTHER PAVING, OR AS OTHERWISE INDICATED ON THE DRAWINGS.
- P. **SPACING AND DRIVE AREAS -** FILL PLACED WITHIN PARKING AND DRIVE AREAS WILL BE OFF-SITE BORROW (UNLESS OTHERWISE INDICATED) OR GRANULAR (BANK RUN GRAVEL) PLACED IN MAXIMUM 6 INCH LAYS AND COMPACTED TO A MINIMUM OF 100% STANDARD PROCTOR DENSITY FOR THE TOP 12 INCHES AND MINIMUM 95% STANDARD PROCTOR DENSITY BELOW THE TOP 12 INCHES.
- Q. **SIDEWALKS -** SIDEWALKS ARE TO BE FILLED USING SUFFICIENT FILL, PLACED IN MAXIMUM 6 INCH LAYS AND COMPACTED TO A MINIMUM 100% STANDARD PROCTOR DENSITY FOR THE TOP 12 INCHES AND MINIMUM 98% STANDARD PROCTOR DENSITY BELOW THE TOP 12 INCHES.
- R. **LAWN AREAS -** LAWN AREAS ARE TO BE FILLED USING SUFFICIENT FILL, COMPACTED TO A MINIMUM 90% STANDARD PROCTOR DENSITY.
- R. **TESTING FOR DISPLACEMENT:**
1. CHECK SECTIONS AND STORM DRAINS TO DETERMINE WHETHER DISPLACEMENT HAS OCCURRED. IF DISPLACEMENT HAS OCCURRED, THE SURFACE SHALL BE REPAIRED TO THE ORIGINAL FINISH AND BEEN COMPACTED AS SPECIFIED.
2. FLASH A LIGHT BETWEEN MANHOLES OR, IF MANHOLES DO NOT EXIST, BETWEEN THE ENDS OF EACH MANHOLE. IF THERE IS A SIGNIFICANT DISCREPANCY IN THE ELEVATION, THE SURFACE SHALL BE REPAIRED TO THE ORIGINAL FINISH AND BEEN COMPACTED AS SPECIFIED.
3. IF THE ILLUMINATED INTERIOR OF THE PIPE LINE SHOWS POOR ALIGNMENT, DISPLACED PIPES, OR ANY OTHER DEFECTS, CORRECT THE DEFECTS TO THE SPECIFIED CONDITIONS AND AT NO ADDITIONAL COST TO THE OWNER.
- 0230-TERMITE CONTROL:**
- PROVIDE AND EPA-REGISTERED TERMITICIDE, COMPLYING WITH REQUIREMENTS OF AUTHORITIES HAVING JURISDICTION, IN AN AQUEOUS SOLUTION FORMULATED TO PREVENT TERMITE INFESTATION. PROVIDE QUANTITY REQUIRED FOR APPLICATION AT THE LABEL VOLUME AND RATE FOR THE MAXIMUM TERMITE CONCENTRATION ALLOWED FOR EACH SPECIFIC USE. ACCORDING TO PRODUCTS EPA-REGISTERED TERMITICIDES: BORAX-BASED TERMITICIDE (SODIUM BORATE), D-DIMETHYL HYDROXYMETHYL TETRAHYDRATE (DOT); PENETRANT: PATENTED GYALCO MIXTURE.
- PERFORM ALL SITE GRADING INDICATED ON THE DRAWINGS, SHAPE THE SITE TO REFLECT FINISH GRADES.
- A. REMOVE ALL EXISTING TOPSOIL AND MATERIAL WITH ORGANIC CONTENT FROM WITHIN THE BUILDING AND PAVED AREAS.
- B. UNIFORMLY GRADE TO LINES AND LEVELS REQUIRED BY THE BUILDING AND SITE IMPROVEMENTS. GRADING TO BE DONE IN ACCORDANCE WITH THE FOLLOWING SUB-GRADE LEVELS (UNLESS OTHERWISE PROVIDED OR INDICATED):
1. CONCRETE SLABS ON GRADE - MINIMUM 6 INCHES BELOW BOTTOM OF SLAB.
2. DRIVEWAYS AND PARKING AREAS - AS REQUIRED FOR BASE THICKNESS.
3. SIDEWALKS - 5 INCHES BELOW FINISH GRADE.
4. LAWN AREAS - 4 INCHES BELOW FINISH GRADE.
- C. FINISH SURFACES ARE TO BE FREE FROM LIMPS OR EARTH, ROCK, STONES, OR OTHER IMPROPER MATERIALS.
- D. DISTRIBUTE TOPSOIL AT LAWN AREAS, PROVIDE A MINIMUM 4 INCHES TOPSOIL DEPTH OVER UNPAVED AREAS DISTURBED BY CONSTRUCTION AND MINIMUM 12 INCHES TOPSOIL DEPTH IN PLANTING AREAS.
- E. PROVIDE DRAINABLE, SMOOTH FINISH GRADES, SLOPING AND BLENDING GRADE TO REQUIRED FINISH LINES, SLOPE ALL GRADES AWAY FROM THE BUILDING AND ADJACENT PROPERTY FOR PROPER DRAINAGE AND TO PREVENT POONDING.
- F. TYPICAL EMBANKMENT SLOPE - 3 TO 1 MAXIMUM, UNLESS NOTED OTHERWISE.
- G. LEAVE IN A CONDITION FREE OF FOREIGN MATERIAL, READY FOR SEEDING OR SOILING, AS APPLICABLE.
- H. REMOVE FROM ALL SITE DEBRIS AND EXCESS EARTHWORK (UNLESS OTHERWISE INDICATED) OR DISTRIBUTE ON SITE AT ALL EXCESS EARTHWORK.
- I. PROTECT NEWLY GRADED AREAS FROM TRAFFIC AND EROSION AND KEEP FREE OF TRASH AND DEBRIS. REPAIR AND REESTABLISH GRASSES IN SETTLED, ERODED, AND RUINED AREAS. REFER TO SECTION 0220-SLOPE PROTECTION AND EROSION CONTROL FOR ADDITIONAL REQUIREMENTS.
- J. WHERE GRADIENTS ARE DISTURBED BY CONSTRUCTION OPERATIONS OR ADVERSE WEATHER, SCARIFY SURFACE, RESHAPE, AND COMPACT TO REQUIRED DENSITY.
- 0220-EARTHWORK - EXCAVATION:**
- REFER TO CIVIL ENGINEERING DRAWINGS FOR INFORMATION. IF INFORMATION IS NOT PROVIDED, CONTACT THE ARCHITECT FOR CLARIFICATION.
- ADDITIONALLY, PROVIDE AND MAINTAIN THE FOLLOWING MINIMUM PRACTICES UNLESS THERE IS A CONFLICT WITH THE CIVIL ENGINEERING DRAWINGS, IN WHICH CASE CONTACT THE ARCHITECT FOR CLARIFICATION.
- EXCAVATE TO DEPTHS AND DIMENSIONS INDICATED, AS DIRECTED BY A GEOTECHNICAL ENGINEER, OR OTHERWISE REQUIRED TO PERMIT THE CONSTRUCTION AND INSTALLATION OF FOUNDATIONS, SLABS, OR OTHER ELEMENTS OF THE CONSTRUCTION.
- A. CONTROL GRADING IN SUCH A MANNER AS TO ENSURE THAT THE SURFACE OF THE GROUND WILL BE PROPERLY SLOPED TO PREVENT WATER FROM RUNNING INTO THE EXCAVATED AREAS OR ADJACENT PROPERTIES. EXCAVATED AREAS ARE TO BE KEPT REASONABLY DRY AT ALL TIMES.
- B. EXTEND EXCAVATION A SUFFICIENT DISTANCE FROM FOUNDATIONS TO PERMIT PLACING AND REMOVING OF FORMWORK, WATERPROOFING, OTHER MATERIALS, SERVICES, AND INSPECTION. IF CONDITION OF EXCAVATION IS SUCH THAT TRENCH EXCAVATION ARE TO BE CUT NEAR TO LINES AND GRADES, PLACING CONCRETE (AFTER SOIL INSPECTION) DIRECTLY AGAINST THE BANK OF EXCAVATION WITHOUT FORMING, WHERE OTHER SERVICES OR MATERIALS ARE NOT REQUIRED. THE BOTTOMS OF ALL EXCAVATIONS ARE TO BE FREE FROM CAVEINS, SEEPING WATER, RAINWATER, ICE, FROST, OR SIMILAR CONDITIONS. REFER TO SECTION 0210-DEWATERING FOR ADDITIONAL REQUIREMENTS.
- C. FOUNDATION SUBGRADE MUST BE APPROVED BY THE GEOTECHNICAL ENGINEER BEFORE PROCEEDING WITH THE CONSTRUCTION OF FOOTINGS, PILES, AND FOUNDATION WALLS.
- D. SLOPE SIZES OF EXCAVATION TO COMPLY WITH APPLICABLE STANDARDS, LOCAL CODES, AND ORDINANCES HAVING JURISDICTION. EXCAVATION SHALL NOT PROCEED TO A DEEPER BECAUSE OF SPACE RESTRICTIONS OR STABILITY OF MATERIALS. PROVIDE SET, AND REMOVE ALL BRACING, SHORING, AND RELATED MATERIALS REQUIRED TO PREVENT CAVE-INS.
- E. BACKFILL AND FILL OVER EXCAVATIONS TO PROPER GRADES. FILL OVER EXCAVATION AT PROTECTIVE BACKFILL WITH APPROVED MATERIALS. ADDITIONAL LABOR AND MATERIAL FOR UNAUTHORIZED OVER-EXCAVATIONS WILL BE AT THE CONTRACTORS EXPENSE.
- G. ALL EXCAVATION WILL BE OFF-SITE REMOVED (UNLESS OTHERWISE IND

INSTALLATION COMPLYING WITH ASTM-A510.

- E. **ANGLE-TIE HANGERS** - PROVIDE NOT LESS THAN 16 GAUGE x 7/8 INCH x 7/8 INCH GALVANIZED STEEL FORMED ANGLES WITH BOLTED TENSILE ANCHORS AND 5/16 INCH DIAMETER BOLTS.
- F. **HANGER ANCHORAGE DEVICES** - PROVIDE SCREWS, CLIPS, BOLTS, CAST-IN-PLACE CONCRETE INSERTS OR OTHER DEVICES APPLICABLE TO THE REQUIRED METHOD OF STRUCTURAL ANCHORAGE FOR CEILING HANGERS AND WHOME SUITABILITY FOR USE INTENDED HAS BEEN TEXTURE, ONE COAT OF PRYNAI, PRIMER SEALER, FINISH, AND ONE COAT OF LATEX ENAMEL PAINT. COLOR - WHITE.
- G. **FURRING MEMBERS** - 0.0179 INCH (26 GAUGE) MINIMUM THICKNESS OF BASE METAL x 7/8 INCH DEPTH, HOT DIPPED GALVANIZED STEEL. PROVIDE MATERIALS AND INSTALLATION COMPLYING WITH ASTM-C645.
- H. **OTHER MATERIALS** - ALL OTHER MATERIALS OR PRODUCTS, NOT SPECIFICALLY DESCRIBED, BUT REQUIRED FOR PROPER AND COMPLETE INSTALLATION, SHALL BE PROVIDED AS RECOMMENDED BY THE MANUFACTURER OR SELECTED BY THE CONTRACTOR SUBJECT TO THE ARCHITECT'S OR DESIGNER'S APPROVAL.

09250-GYPSUM BOARD:

AS MANUFACTURED BY USG CORPORATION (800-874-4969 / www.usg.com), GEORGIA-PACIFIC (800-254-5347 / www.gp.com/gypsum), NATIONAL GYPSUM BOARD (800-329-8421 / www.nationalsgypsum.com) OR EQUAL, SUBJECT TO THE ARCHITECT'S OR DESIGNER'S APPROVAL. PROVIDE SAG RESISTANT TYPE FOR CEILING APPLICATIONS. PRODUCTS OF SPECIFIC MANUFACTURERS ARE INDICATED FOR DESIGNATING TYPE, STYLE, AND QUALITY REQUIREMENTS. EXAMINATION, PREPARATION, INSTALLATION, PROTECTION, CLEANING, MATERIALS, AND ACCESSORIES PER MANUFACTURERS PUBLISHED INSTALLATION INSTRUCTIONS, DETAILS, AND RECOMMENDATIONS. MANUFACTURER'S STANDARD WARRANTY.

- A. **TYPICAL BOARD** - 5/8 INCH THICK (UNLESS NOTED OTHERWISE) x 48 INCHES WIDE. PROVIDE MAXIMUM LENGTHS AVAILABLE TO MINIMIZE END-TO-END BUTT JOINTS. PROVIDE TAPERED EDGE, NONCOMBUSTIBLE, DIMENSIONALLY STABLE, GYPSUM CORE MATERIAL ENCASED IN PAPER ON BOTH SIDES AND LONG EDGES. PROVIDE MATERIALS COMPLYING WITH FS SS-1-300, TYPE III, GRADE R, CLASS I OR ASTM-C36/C136.
- B. **FLEXIBLE BOARD** - BASIS OF DESIGN: FLEXPROX AS MANUFACTURED BY GEORGIA-PACIFIC, 1/4 INCH THICK x 48 INCHES WIDE x 8 FEET LONG. PROVIDE TAPERED EDGE, NONCOMBUSTIBLE, DIMENSIONALLY STABLE, GYPSUM CORE MATERIAL ENCASED IN PAPER ON BOTH SIDES AND LONG EDGES. HIGH FLEX GYPSUM BOARD DESIGNED FOR INDOR AND OUTSIDE RADIUS CURVE INSTALLATIONS. PROVIDE MATERIALS COMPLYING WITH FS SS-1-300, TYPE III, GRADE "R", CLASS I OR ASTM-C36/C136.
- C. **FIRE-RATED TYPE XT BOARD** - BASIS OF DESIGN: FIREGUARD AS MANUFACTURED BY GEORGIA-PACIFIC, 5/8 INCH THICK (UNLESS NOTED OTHERWISE) x 48 INCHES WIDE. PROVIDE MAXIMUM LENGTHS AVAILABLE TO MINIMIZE END-TO-END BUTT JOINTS. PROVIDE TAPERED EDGE, NONCOMBUSTIBLE, DIMENSIONALLY STABLE, GYPSUM CORE MATERIAL REINFORCED WITH INORGANIC GLASS FIBERS ENCASED IN WATER-RESISTANCE TREATED PAPER ON BOTH SIDES AND LONG EDGES. PROVIDE MATERIALS COMPLYING WITH FS SS-1-300, TYPE III, GRADE "X", CLASS I OR ASTM-C36/C136, TYPE "X". FIRE-RATED PANELS ARE TO BE STAMPED AS BEING TESTED AND LISTED BY UNDERWRITERS LABORATORIES (U.L.).
- D. **FIRE-RATED TYPE C BOARD** - BASIS OF DESIGN: FIREGUARD C AS MANUFACTURED BY GEORGIA-PACIFIC, 5/8 INCH THICK (UNLESS NOTED OTHERWISE) x 48 INCHES WIDE. PROVIDE MAXIMUM LENGTHS AVAILABLE TO MINIMIZE END-TO-END BUTT JOINTS. PROVIDE TAPERED EDGE, NONCOMBUSTIBLE, DIMENSIONALLY STABLE, GYPSUM CORE MATERIAL REINFORCED WITH INORGANIC GLASS FIBERS AND VERMICULITE ORE (EXPANDS WHEN EXPOSED TO FIRE) ENCASED IN PAPER ON BOTH SIDES AND LONG EDGES. PROVIDE MATERIALS COMPLYING WITH FS SS-1-300, TYPE III, GRADE "X", CLASS I OR ASTM-C36/C136, TYPE "C". FIRE-RATED PANELS ARE TO BE STAMPED AS BEING TESTED AND LISTED BY UNDERWRITERS LABORATORIES (U.L.).
- E. **FIRE-RATED LINER PANEL** - BASIS OF DESIGN: SHEETROCK BRAND GYPSUM LINER PANELS AS MANUFACTURED BY USG CORPORATION, 1 INCH THICK x 24 INCHES WIDE. PROVIDE TAPERED EDGE, NONCOMBUSTIBLE, DIMENSIONALLY STABLE, GYPSUM CORE MATERIAL REINFORCED WITH INORGANIC GLASS FIBERS ENCASED IN WATER-RESISTANCE TREATED PAPER ON BOTH SIDES AND LONG EDGES. AN ENHANCED LINER PANEL WITH A MOISTURE-RESISTANT GYPSUM CORE ENCLOSED IN MOLD AND WATER-RESISTANCE TREATED PAPER ON BOTH SIDES AND LONG EDGES SHOULD BE USED FOR SHAFTS EXPOSED TO WATER / MOISTURE.
- E.1. **USAGE** - FOR THE INTERIOR LINER PANEL OF SHAFT WALL ASSEMBLIES.
- F. **WATER-RESISTANT ("GREEN") BOARD** - BASIS OF DESIGN: DUROCK CEMENT BOARD OR FIBEROCK AQUA-TOUGH INTERIOR PANELS AS MANUFACTURED BY USG CORPORATION OR WONDERBOARD AS MANUFACTURED BY CUSTOM BUILDING PRODUCTS. 5/8 INCH THICK (UNLESS NOTED OTHERWISE) x 48 INCHES WIDE. PROVIDE MAXIMUM LENGTHS AVAILABLE TO MINIMIZE END-TO-END BUTT JOINTS. PROVIDE TAPERED EDGE, NONCOMBUSTIBLE, DIMENSIONALLY STABLE, CEMENTITIOUS CORE MATERIAL ENCASED IN POLYMER-COATED GLASS-FIBER MESH ON BOTH SIDES AND LONG EDGES. PROVIDE MATERIALS COMPLYING WITH FS SS-1-300, TYPE VII, GRADE "W" OR ASTM-C830/C136.
- G.1. **USAGE** - FOR LOCATIONS NOTED AS "WATER RESISTANT" GYPSUM BOARD THAT ARE ALSO PART OF FIRE-RATED ASSEMBLIES.
- H. **CEMENT ("BROWN") BOARD** - BASIS OF DESIGN: DUROCK CEMENT BOARD OR FIBEROCK AQUA-TOUGH INTERIOR PANELS AS MANUFACTURED BY USG CORPORATION OR WONDERBOARD AS MANUFACTURED BY CUSTOM BUILDING PRODUCTS. 5/8 INCH THICK (UNLESS NOTED OTHERWISE) x 48 INCHES WIDE. PROVIDE MAXIMUM LENGTHS AVAILABLE TO MINIMIZE END-TO-END BUTT JOINTS. PROVIDE TAPERED EDGE, NONCOMBUSTIBLE, DIMENSIONALLY STABLE, CEMENTITIOUS CORE MATERIAL ENCASED IN POLYMER-COATED GLASS-FIBER MESH ON BOTH SIDES AND LONG EDGES. PROVIDE MATERIALS COMPLYING WITH FS SS-1-300, TYPE VII, GRADE "W" OR ASTM-C830/C136.
- H.1. **USAGE** - FOR ALL WALLS WITH WALL ATTACHED CERAMIC TILE AND FOR WALLS THAT ARE PART OF ASSEMBLIES CONTAINING WOOD OR GAS-FIRED FIREPLACES.
- I. **SOUND DEADENING BOARD** - BASIS OF DESIGN: TOUGHPROCK SOUND DEADENING BOARD AS MANUFACTURED BY GEORGIA-PACIFIC, 1/4 INCH THICK x 48 INCHES WIDE x 8 FEET LONG. PROVIDE SQUARE EDGE, NONCOMBUSTIBLE, DIMENSIONALLY STABLE, GYPSUM CORE MATERIAL ENCASED IN PAPER ON BOTH SIDES AND LONG EDGES. PROVIDE MATERIALS COMPLYING WITH FS SS-1-300, TYPE IV, GRADE "R" OR ASTM-C442/C136.
- I.1. **USAGE** - AS A BASE LAYER SOUND TRANSMISSION CONTROL COMPONENT.
- J. **JOINT SYSTEM** - THE JOINT SYSTEM FOR INTERIOR AND EXTERIOR GYPSUM BOARD IS TO BE AS RECOMMENDED BY THE MANUFACTURER OF THE GYPSUM PANELS AND COMPATIBLE WITH THE PANELS USED.
- J.1. **JOINT TAPE** - PAPER REINFORCING TAPE. PROVIDE MATERIALS AND INSTALLATION COMPLYING WITH ASTM-C475.
- J.2. **JOINT COMPOUND** - CHEMICAL-HARDENING TYPE FOR BEDDING AND FILLING, READY-MIXED VINYL TYPE FOR TOPPING. PROVIDE MATERIALS AND INSTALLATION COMPLYING WITH ASTM-C475.
- J.3. **WATER-RESISTANT COMPOUND** - SPECIAL WATER-RESISTANT TYPE FOR TREATMENT OF JOINTS, FASTENER HEADS, AND CUT EDGES OF WATER-RESISTANT BOARD. PROVIDE MATERIALS AND INSTALLATION COMPLYING WITH ASTM-C475.
- K. **FASTENERS** - TYPE AND SPACING AS RECOMMENDED BY THE MANUFACTURER OF THE GYPSUM PANELS OR AS REQUIRED BY U.L. OR G.A. FOR FIRE-RESISTANCE-RATED WALL OR CEILING ASSEMBLIES. **SCREW ATTACHMENT REQUIRED** PROVIDE MATERIALS COMPLYING WITH ASTM-C1002.
- L. **CONTROL JOINTS** - PROVIDE CONTROL JOINTS PER MANUFACTURER'S RECOMMENDATIONS IN GYPSUM BOARD WALLS AND CEILINGS. AT A MINIMUM, PROVIDE CONTROL JOINTS AT THE FOLLOWING LOCATIONS: AT PARTITIONS 30 FEET MAXIMUM IN ANY DIRECTION AND AT EXPANSION AND CONTROL JOINTS IN THE BASE WALL CONSTRUCTION.
- M. **TRIM ACCESSORIES** - PROVIDE GALVANIZED STEEL BUNDED UNITS WITH FLANGES FOR CONCEALMENT IN JOINT COMPOUND. ALL WALLBOARD SURFACES TERMINATING AT EXTERIOR WINDOWS OR DOOR FRAMES ARE TO BE FINISHED WITH VINYL TRIM (NOT METAL).
- M.1. **CORNER BEADS** - BASIS OF DESIGN: USG 4000 SERIES, AS APPLICABLE TO CONDITIONS.
- M.2. **METAL TRIMS** - BASIS OF DESIGN: USG 4000 SERIES, AS APPLICABLE TO CONDITIONS.
- M.3. **CONTROL JOINTS** - BASIS OF DESIGN: USG #933. PROVIDE WHERE PARTITION OR FURRING RUN EXCEEDS 30 LINEAL FEET IN LENGTH.
- M.4. **EXPANSION JOINTS** - BASIS OF DESIGN: USG #933.
- N. **OTHER MATERIALS** - ALL OTHER MATERIALS OR PRODUCTS, NOT SPECIFICALLY DESCRIBED, BUT REQUIRED FOR PROPER AND COMPLETE INSTALLATION, SHALL BE PROVIDED AS RECOMMENDED BY THE MANUFACTURER OR SELECTED BY THE CONTRACTOR SUBJECT TO THE ARCHITECT'S OR DESIGNER'S APPROVAL.
- O. **SOUND RATED ASSEMBLIES** - SOUND RATED ASSEMBLIES REQUIRE SEALING AT TOP, BOTTOM, INTERSECTIONS, AROUND ELECTRICAL BOXES, PENETRATIONS, AND OTHER LOCATIONS WHERE SOUND LEAKS MAY DEVELOP.

09250-EXTERIOR GYPSUM SHEATHING:

DENSGLOSS GOLD EXTERIOR GUARD SHEATHING AS MANUFACTURED BY GEORGIA-PACIFIC (800-225-8119 / www.gp.com/gypsum). EXAMINATION, PREPARATION, INSTALLATION, PROTECTION, CLEANING, MATERIALS, AND ACCESSORIES PER MANUFACTURERS PUBLISHED INSTALLATION INSTRUCTIONS, DETAILS, AND RECOMMENDATIONS.

- A. **GYPSUM SHEATHING** - 1/2 INCH THICK x 48 INCHES WIDE. PROVIDE MAXIMUM LENGTHS AVAILABLE TO MINIMIZE END-TO-END BUTT JOINTS. PROVIDE SQUARE EDGE, NONCOMBUSTIBLE, DIMENSIONALLY STABLE, WATER-RESISTANCE TREATED GYPSUM CORE MATERIAL ENCASED IN WATER-REPELLENT GLASS MAT SKINS ON BOTH SIDES AND LONG EDGES. INSTALL GYPSUM SHEATHING VERTICALLY. PROVIDE MATERIALS AND INSTALLATION COMPLYING WITH ASTM-C1177.
- B. **FIRE-RATED TYPE XL GYPSUM SHEATHING** - BASIS OF DESIGN: DENSGLOSS GOLD FIREGUARD AS MANUFACTURED BY GEORGIA-PACIFIC, 5/8 INCH THICK x 48 INCHES WIDE. PROVIDE MAXIMUM LENGTHS AVAILABLE TO MINIMIZE END-TO-END BUTT JOINTS. PROVIDE SQUARE EDGE, NONCOMBUSTIBLE, DIMENSIONALLY STABLE, WATER-RESISTANCE TREATED GYPSUM CORE MATERIAL REINFORCED WITH INORGANIC GLASS FIBERS ENCASED IN WATER-REPELLENT GLASS MAT SKINS ON BOTH SIDES AND LONG EDGES. INSTALL GYPSUM SHEATHING VERTICALLY. PROVIDE MATERIALS COMPLYING WITH FS SS-1-300, TYPE III, GRADE "X", CLASS I OR ASTM-C36/C136, TYPE "X". FIRE-RATED PANELS ARE TO BE STAMPED AS BEING TESTED AND LISTED BY UNDERWRITERS LABORATORIES (U.L.).
- C. **FASTENERS** - 1 INCH LONG (1 1/4 INCH LONG FOR 5/8 INCH THICK SHEATHING), TYPE 1-2 RUST RESISTANT SCREWS, OR AS RECOMMENDED BY THE MANUFACTURER FOR APPLICATION OF SHEATHING TO WOOD OR METAL STUDS. AS APPLICABLE, SPACE FASTENERS APPROXIMATELY 38 INCH FROM EDGES OF BOARD AROUND THE ENTIRE PERIMETER AT 4 INCHES O.C. AND 8 INCHES O.C. AT INTERMEDIATE FRAMING MEMBERS.

09300-SURFACE FINISHES:

AS RECOMMENDED AND MANUFACTURED BY PORTER PAINTS, BENJAMIN MOORE, SHERWIN-WILLIAMS OR EQUIVALENT AS APPROVED BY THE ARCHITECT / DESIGNER. SURFACE PREPARATION, APPLICATION, AND ACCESSORIES PER MANUFACTURERS RECOMMENDATIONS. FINAL COLOR AND FINISH SELECTIONS BY ARCHITECT, DESIGNER, OR OWNER, UNLESS NOTED OTHERWISE.

- A. **GYPSUM BOARD WALLS, CEILINGS, AND SOFFITS** (TYPICAL LOCATIONS) - ONE COAT OF DRYWALL PRIMER SEALER AND TWO COATS OF LATEX ENAMEL PAINT, EGGSHELL FINISH, SECOND FINISH COAT TO BE AFTER GYPSUM BOARD TOUCH-UP AND AFTER CARPET INSTALLATION.
- B. **GYPSUM BOARD WALLS, CEILINGS, AND SOFFITS** (TOILET ROOMS, LUNCH ROOMS) - ONE COAT OF DRYWALL PRIMER SEALER AND TWO COATS OF LATEX ENAMEL PAINT, SEMI-GLOSS FINISH, SECOND FINISH COAT TO BE AFTER GYPSUM BOARD TOUCH-UP AND AFTER CARPET INSTALLATION.
- C. **PAINTING CONTRACTOR MUST INVESTIGATE ALL PRIMED SURFACES TO RECEIVE FINISH COATING FOR COMPATIBILITY. WHERE NON-COMPATIBLE PRIMERS EXIST, A BARRIER COAT MUST BE APPLIED PRIOR TO APPLICATION OF THE FINISH COAT.**
- D. **GYPSUM BOARD WALLS, CEILINGS, AND SOFFITS** (TYPICAL LOCATIONS) - ONE COAT OF DRYWALL PRIMER SEALER AND TWO COATS OF LATEX ENAMEL PAINT, EGGSHELL FINISH, SECOND FINISH COAT TO BE AFTER GYPSUM BOARD TOUCH-UP AND AFTER CARPET INSTALLATION.
- E. **GYPSUM BOARD WALLS, CEILINGS, AND SOFFITS** (TOILET ROOMS, LUNCH ROOMS) - ONE COAT OF DRYWALL PRIMER SEALER AND TWO COATS OF LATEX ENAMEL PAINT, SEMI-GLOSS FINISH, SECOND FINISH COAT TO BE AFTER GYPSUM BOARD TOUCH-UP AND AFTER CARPET INSTALLATION.

1. TILE MUST HAVE A COEFFICIENT OF FRICTION (ASTM C1028-07a1) OF 0.6 WHEN WET OR BETTER AND HAVING A BREAKING STRENGTH OF (ASTM C648-04) OF NOT LESS THAN 250 LBS. OR ISO EQUIVALENT.
2. KITCHEN OR FOOD PREP TILE MUST PASS THE ROBERTS WHEEL ABRASION TEST OR ISO EQUIVALENT AND HAVE A SLIP-RESISTANCE COEFFICIENT OF AT LEAST 0.6 WHEN WET, OR REGIONAL STATUTORY STANDARD.
- B. **INSTALLATION**
1. INSTALL TILE IN A GRID PATTERN, UNLESS OTHERWISE INDICATED ON THE DRAWINGS. IF A TILE PATTERN IS INDICATED ON THE DRAWINGS, IT IS INTENDED TO REPRESENT THE FINAL INSTALLED CONDITION.
2. LAYOUT TILE WORK AND CENTER THE TILE FIELDS IN BOTH DIRECTIONS IN EACH SPACE AND ADJUST TO MINIMIZE TILE CUTTING, UNLESS OTHERWISE INDICATED ON THE DRAWINGS.
3. STRICTLY ALIGN JOINTS WHEN THE ADJOINING TILES ON FLOOR, BASE, OR WALL ARE THE SAME SIZE OR COMPATIBLE SIZE.
4. EXTEND TILE UNDER FIXTURES, FURNISHINGS, OR EQUIPMENT AND INTO ALCOVES AND CLOSETS OF EACH SPACE. INSTALL TIGHT AGAINST WALLS, COLUMNS, AND CABINETS SO THAT THE ENTIRE FLOOR AREA IS COVERED TO FORM A COMPLETE COVERING WITHOUT INTERRUPTIONS.
5. CUT AND FIT TILE TO FLOOR CORNERS AND BASE UNITS NEATLY. PROVIDE CUT OUTS WHERE REQUIRED, CONFORM TO CUT EDGES WITH PROTECTIVE EDGE GUARDS OR TRIM.
6. TERMINATE TILE NEATLY AT OBSTRUCTIONS, EDGES, AND CORNERS WITHOUT DISRUPTION OF THE PATTERN OR JOINT ALIGNMENT.
7. INSTALL EDGING GUARDS AT ALL OPENINGS, DOORS, OR WHEREVER TILE TERMINATES, UNLESS INDICATED OTHERWISE.
8. CUTTING MUST BE DONE IN ACCORDANCE WITH THE MANUFACTURER'S OR TILE COUNCIL OF AMERICA'S RECOMMENDATIONS, USING THE TOOLS DESIGNED FOR THE TILE BEING INSTALLED.
9. USE A LEVELING COAT WHERE NECESSARY.
10. PROVIDE EXPANSION AND CONTROL JOINTS WHERE SHOWN ON THE DRAWINGS OR WHERE OTHERWISE RECOMMENDED BY THE "HANDBOOK FOR CERAMIC TILE" INSTALLATION. PROVIDE CAULKING OR SEALANT AS RECOMMENDED BY THE MANUFACTURER OR TILE COUNCIL OF AMERICA FOR THE TYPE OF TILE BEING INSTALLED.
11. SOUND TILE AFTER SETTING AND REPLACE HOLLOW SOUNDING TILES.
12. FINISH TILE SURFACES CLEAN AND FREE FROM CRACKED, BROKEN, CHIPPED, UNBONDED, OR OTHERWISE DEFECTIVE UNITS.
- B. **LEVELING COAT** - PROVIDE A 1/4 INCH THICK OR LESS LEVELING COAT CONSISTING OF DRY SET MORTAR TO WHICH AN EQUAL VOLUME OF A MIXTURE OF ONE PART PORTLAND CEMENT AND 1 1/2 PARTS SAND HAS BEEN ADDED. PROVIDE WITH LESS THAN 1/8 INCH IN AN 8 FOOT MAXIMUM VARIATION AND ALLOW TO CURE FOR AT LEAST 24 HOURS BEFORE TILE IS APPLIED.
- C. **UNDERLAYMENT / SUBSTRATE** - PROVIDE UNDERLAYMENT OR SUBSTRATE MATERIALS AS REQUIRED OR RECOMMENDED BY THE MANUFACTURER OR THE TILE COUNCIL OF AMERICA FOR A HIGH QUALITY INSTALLATION. PROVIDE HARDIEBACKER CEMENT BOARD WITH MOLDLOCK AS MANUFACTURED BY JAMES HARDIE BUILDING PRODUCTS FOR FLOORS AND COUNTERTOPS. CEMENT BOARD MAY BE AN ACCEPTABLE ALTERNATIVE FOR FLOOR OR COUNTERTOPS UPON THE ARCHITECT'S APPROVAL. PROVIDE CEMENT BOARD FOR WALL ATTACHED TILE. WATER-RESISTANT GYPSUM BOARD IS ACCEPTABLE AS AN ALTERNATIVE TO CEMENT BOARD FOR WALLS WITH WALL ATTACHED TILE EXPOSED TO WATER OR MOISTURE.
- D. **MORTAR FOR FLOOR TILE** - BASIS OF DESIGN: LATITCRETE 4237/21 AS MANUFACTURED BY LATITCRETE INTERNATIONAL OR EQUAL SUBJECT TO ARCHITECT'S APPROVAL. PROVIDE BOND COAT OF THIN SET MORTAR WITH POLYMER OR ACRYLIC / LATEX ADDITIVE. INSTALL COMPLYING WITH ANSI A108 & A118.1.
- E. **WALL ADHESIVE** - BASIS OF DESIGN: LATITCRETE 15 PREMIUM MULTI-MASTIC ADHESIVE AS MANUFACTURED BY LATITCRETE INTERNATIONAL OR EQUAL SUBJECT TO ARCHITECT'S APPROVAL. PROVIDE HIGH STRENGTH, LATEX BASED, NON-FLAMMABLE ADHESIVE FORMULATED TO MEET OR EXCEED THE REQUIREMENTS OF ANSI A118.1, TYPE 1.
- F. **GROUT** - BASIS OF DESIGN: AS MANUFACTURED BY LATITCRETE INTERNATIONAL, INC., MAPEI, INC., CUSTOM BUILDING PRODUCTS, OR HYDROMAT (BOSTON FINLEY, INC.), OR EQUAL, SUBJECT TO THE ARCHITECT'S APPROVAL. PRODUCTS OF LATITCRETE INTERNATIONAL ARE INDICATED FOR DESIGNATING TYPE, STYLE, AND QUALITY REQUIREMENTS. PROVIDE A NON-SHINING EPOXY OR LATEX ACRYLIC PORTLAND CEMENT GROUT CONSISTING OF DRY SET MORTAR WITH AN ACRYLIC LATEX OR POLYMER ADDITIVE. PLACE TILE WITH JOINTS UNIFORM IN WIDTH, SUBJECT TO VARIANCE IN TOLERANCE ALLOWED IN THIS SIZE. MAKE JOINTS WATER TIGHT WITHOUT DOWNS, CRACKS, EXCESS MORTAR OR EXCESS GROUT. INSTALL COMPLYING WITH ANSI A118.1. PROVIDE MATERIALS COMPLYING WITH ANSI A118.4. GROUT MUST BE SEALED AFTER INSTALLATION. GROUT LINES TO BE AS NARROW AS POSSIBLE, BUT APPROPRIATE TO THE TILE SIZE (3/16-INCH MAXIMUM TYPICAL).
1. **ALL JOINT WIDTHS 1/8-INCH OR GREATER** - BASIS OF DESIGN: LATITCRETE TILE GROUT (SANDED) 1776 LATEX ADDITIVE.
2. **ALL JOINT WIDTHS LESS THAN 1/8-INCH** - BASIS OF DESIGN: LATITCRETE DRY TILE GROUT (UNSANDED) 1776 LATEX ADDITIVE.
3. **EPOXY GROUT** (ALL JOINT WIDTHS) - LATITCRETE LATAPOXY SP-100 STAINLESS EPOXY GROUT (UNSANDED) 1776 LATEX ADDITIVE.
- F. **SEALER** - A COMPATIBLE SEALER IS REQUIRED FOR ALL POROUS OR NATURAL STONE TILE.
- G. **TILE TERMINATION STRIP** - BASIS OF DESIGN: AS MANUFACTURED BY SCHLITERS SYSTEMS, INC., TRESCA, OR EQUAL, SUBJECT TO THE ARCHITECT'S, DESIGNER'S, OR OWNER'S APPROVAL. PROVIDE A STAINLESS STEEL TRIM STRIP WHERE FLOOR TILE TERMINATES (e.g. DOORWAYS OR OTHER AREAS) AND ANOTHER FLOORING IS INDICATED. AT THE TOP OF PARTIAL HEIGHT WALL TILE, OR AS OTHERWISE INDICATED ON THE DRAWINGS, "UPSTAND" HEIGHT OF ANGLE SHAPED TRIM TO BE DETERMINED BY THE TILE THICKNESS.
- H. **OTHER MATERIALS** - ALL OTHER MATERIALS OR PRODUCTS, NOT SPECIFICALLY DESCRIBED, BUT REQUIRED FOR PROPER AND COMPLETE INSTALLATION, SHALL BE PROVIDED AND SELECTED BY THE CONTRACTOR SUBJECT TO THE ARCHITECT'S OR DESIGNER'S APPROVAL.

09510-ACOUSTICAL TILE CEILINGS

AS MANUFACTURED BY ARMSTRONG WORLD INDUSTRIES, INC. (800-442-4212 / www.armstrong.com), OR CHICAGO METALLIC CORPORATION (800-323-1764 / www.rockfon.com), OR USG INTERIORS, INC. (800-893-3839).

TYPE I GRID:

- 1) 1'x2'x4 GRID SYSTEM BY USG INTERIORS
- 2) *PRELUDE XL 1519" EXPOSED TEE SYSTEM BY ARMSTRONG
- 3) *200 SNAP-GRID SYSTEM BY CHICAGO METALLIC

TYPE II GRID:

- 1) *FIBERGLASS CEILING GRID SYSTEM BY USG INTERIORS
- 2) *SUPRA-FINE XL 7500 SERIES GRID SYSTEM BY ARMSTRONG
- 3) *ULTRALINE 3500 GRID SYSTEM BY CHICAGO METALLIC

FIBERGLASS CEILING GRID SYSTEM:

- 1) SAWGRID FIBERGLASS CEILING GRID SYSTEM (SAY) BY CRANE COMPOSITES

COORDINATE WITH OTHER WORK SUPPORTED BY OR PENETRATING THROUGH CEILINGS INCLUDING MECHANICAL EQUIPMENT AND LIGHTING FIXTURES, MECHANICAL AND ELECTRICAL CONTRACTORS ARE TO PROVIDE FIXED ANCHORS AT EACH MECHANICAL DIFFUSER, GRILLE, AND LIGHT FIXTURE TO CEILING GRID. CEILING GRID CONTRACTOR IS TO PROVIDE SUPPORT WIRES WITHIN 6 INCHES OF EACH CORNER OF MECHANICAL DIFFUSERS, GRILLES, AND LIGHT FIXTURES TO STRUCTURE ABOVE.

EXAMINATION, PREPARATION, INSTALLATION, PROTECTION, CLEANING, MATERIALS, AND ACCESSORIES PER MANUFACTURERS PUBLISHED INSTALLATION INSTRUCTIONS, DETAILS, AND RECOMMENDATIONS. INSTALL COMPLYING WITH ASTM-C636.

- A. **WIRE FOR HANGERS AND TIES** - 1/8 GAUGE MINIMUM, GALVANIZED, SOFT TENSILE, PRESTRETCHED, STEEL WIRES (STAINLESS STEEL WIRE AT HIGH HUMIDITY, WET, OR KITCHEN AREAS) PROVIDE SUPPORTING 24 INCH MAXIMUM SPACING BY STEEL WIRES SECURELY FASTENED TO OVERHEAD STRUCTURE. SIZE WIRE SO THAT STRESS AT 3X THE HANGER DESIGN LOAD (PER ASTM-C636, TABLE 1 DIRECT HUNG) WILL BE LESS THAN YIELD STRESS OF WIRE. PROVIDE MATERIALS COMPLYING WITH ASTM-C631, CLASS I.
- B. **EDGE HOLDINGS** - MANUFACTURER'S STANDARD STRAIGHT OR HEMMED EDGES. FINISH COLOR OR SURFACE TO MATCH GRID SUSPENSION SYSTEM MEMBERS.
- C. **ATTACHMENT DEVICES** - PERCUSSION, SELF-DRILLING, OR SLEEVE TYPE, CADMIUM PLATED OR COMPARABLE FINISH. SIZE FOR 5X DESIGN LOAD (PER ASTM-C636, TABLE 1 DIRECT HUNG).
- D. **OTHER MATERIALS** - ALL OTHER MATERIALS OR PRODUCTS, NOT SPECIFICALLY DESCRIBED, BUT REQUIRED FOR PROPER AND COMPLETE INSTALLATION, SHALL BE PROVIDED AND SELECTED BY THE CONTRACTOR SUBJECT TO THE ARCHITECT'S APPROVAL.
- E. **FASTENERS AND SUPPORTS** - TYPE AND SPACING AS RECOMMENDED BY THE MANUFACTURER OF THE INSULATION.
- F. **DRIVE** - PROVIDE A VARIABLE VOLTAGE FREQUENCY AC DRIVE SYSTEM TO DEVELOP HIGH STARTING TORQUE WITH LOW STARTING CURRENT. THE DRIVE SHOULD BE SET UP FOR REGENERATIVE DRIVE TO AC POWER BACK INTO THE BUILDING GRID.
- G. **MACHINE** - AC GEARLESS MACHINE WITH PERMANENT MAGNET SYNCHRONOUS MOTOR, DIRECT CURRENT ELECTRO-MECHANICAL DISC BRAKES AND INTEGRAL TRACTION DRIVE, MOUNTED TO THE CAR GUIDE RAIL AT THE TOP OF THE HOISTWAY.
- H. **HOISTWAY ENTRANCES** - PROVIDE EXTRUDED ALUMINUM SILLS, HOLLOW METAL ENTRANCE DOORS WITH VERTICAL INTERNAL CHANNEL REINFORCEMENTS, 1 1/2 HOUR UL, FIRE-RATED ENTRANCE DOORS, PAINTED OR BRUSHED STAINLESS STEEL FINISH, FINAL COLOR AND FINISH SELECTION BY OWNER OR DESIGNER. PROVIDE STANDARD 4" x 4" PLATES HAVING RAISED FLOOR MARKINGS WITH BRAILLE LOCATED ADJACENT TO THE FLOOR MARKING. PROVIDE MARKING PLATES ON BOTH SIDE OF THE ENTRANCE.
- I. **CAB** - 6'-8" WIDE x 5'-0" DEEP x 8'-0" HIGH CAB SIZE (7'-5" MINIMUM CLEAR HEIGHT UNDER SUSPENDED CEILING AND LIGHTS); NON-REMOVABLE VERTICAL PANELS, PLASTIC LAMINATE FINISH SELECTED FROM THE MANUFACTURER'S STANDARD CATALOG; BRUSHED STAINLESS STEEL CAR FRONT FINISH; BRUSHED STAINLESS STEEL INTERIOR CAR DOOR FINISH; LED DOWNLIGHT DROP CEILING, 1 1/2 INCH BRUSHED ALUMINUM ROUND TUBE OR 3/8 INCH x 2 INCH FLAT TUBULAR HANDRAIL, AT THE SIDE AND REAR WALLS, FLOORING BY OTHERS (NOT TO EXCEED 2 SQUARE FEET AND 1/2 INCH FINISHED DEPTH. REFER TO FINISH SCHEDULE); EXTRUDED ALUMINUM THRESHOLD. PROVIDE PROTECTION PADS FOR EACH ELEVATOR. PROVIDE EMERGENCY CAR LIGHTING UTILIZING A SEALED

FINISH COAT TO BE AFTER GYPSUM BOARD TOUCH-UP.

- C. **GYPSUM BOARD ACRYLIC TEXTURED WALL FINISH** - **NOT USED**.
- D. **GYPSUM BOARD CEILING TEXTURE** - BASIS OF DESIGN: USG CORPORATION SHEETROCK BRAND WALL AND CEILING TEXTURE, FINE SAND / FINE ORANGE PEEI / ORANGE PEEI / SPATTER / STIPPLE / "CALIFORNIA" KNOCKDOWN / KNOCKDOWN / SWIRL / STOMP OR CROWSFOOT / COARSE AGGREGATED "POPCORN" / MEDIUM AGGREGATED "POPCORN" / FINE AGGREGATED "POPCORN" TEXTURE, ONE COAT OF PRYNAI, PRIMER SEALER, FINISH, AND ONE COAT OF LATEX ENAMEL PAINT. COLOR - WHITE.
- E. **CAST STONE MASONRY VENEER** (UNPAINTED, EXTERIOR) - CLEAN AND PREPARE SURFACES PRIOR TO FINISH. PROVIDE BREATHABLE, WATER REPELLENT / SEALER FOR STONE AND GROUT VERTICAL SURFACES (BASIS OF DESIGN - LAM HYDROPEL WB).
- F. **INTERIOR CONCRETE FLOOR** - CLEAN AND PREPARE FLOOR PRIOR TO FINISH. ACRYLIC CURE AND SEAL (20% MIN. SOLIDS) (BASIS OF DESIGN - LAM FLOOR PRESS AND SEAL).
- G. **INTERIOR PAINTED CONCRETE FLOOR** - CLEAN AND PREPARE FLOOR PRIOR TO FINISH. ONE COAT OF PRIMER AND TWO COATS OF POLYURETHANE PAINT, SEMI-GLOSS FINISH, GREY COLOR.
- H. **HOLLOW METAL DOORS AND FRAMES** - EXPOSED STEEL METAL - CLEAN AND PREPARE SURFACES PRIOR TO FINISH. TOUCH-UP FACTORY PRIME COAT OR ONE COAT OF METAL PRIMER AND TWO COATS OF ACRYLIC ENAMEL PAINT OR ALKID PAINT, SEMI-GLOSS FINISH. HOLLOW METAL DOORS AND FRAMES ARE TO BE PAINTED TO MATCH, UNLESS OTHERWISE NOTED.
- I. **GALVANIZED STEEL METAL** - ONE COAT AND TWO COATS OF GALVANIZED PRIMER, ONE COAT OF GALVANIZED METAL PRIMER, AND TWO COATS OF ACRYLIC ENAMEL PAINT, SEMI-GLOSS FINISH.
- J. **PAINTED WOOD DOORS** - CLEAN AND PREPARE SURFACES PRIOR TO FINISH. ONE COAT OF WOOD PRIMER AND TWO COATS OF LATEX ENAMEL PAINT, SEMI-GLOSS FINISH. LED DEFECTS WITH COMPATIBLE WOOD FILLER PRIOR TO FINISHING.
- K. **PAINTED WOOD SURFACES** - CLEAN AND PREPARE SURFACES PRIOR TO FINISH. ONE COAT OF WOOD PRIMER AND TWO COATS OF LATEX ENAMEL PAINT, GLOSS FINISH.
- L. **STAINED WOOD SURFACES** (INCLUDING STAINED DOORS) - FACTORY FINISH PREFERRED (ONE COAT STAIN (AS REQUIRED) AND TWO COATS GLOSS OIL BASED POLYURETHANE FINISH, SAND OR STEEL WOOL SURFACES PRIOR TO AND BETWEEN EACH COAT, LED DEFECTS WITH COMPATIBLE WOOD FILLER PRIOR TO FINISHING.
- M. **HANDRAILS, AND GUARDRAILS** - CLEAN AND PREPARE SURFACES PRIOR TO FINISH. ONE COAT OF PRIMER AND TWO COATS OF EPOXY INDUSTRIAL QUALITY PAINT, HIGH GLOSS FINISH, COLOR SELECTED BY OWNER OR DESIGNER.
- N. **GRAND POSTS** - CLEAN AND PREPARE SURFACES PRIOR TO FINISH. ONE COAT OF PRIMER AND TWO COATS OF EPOXY INDUSTRIAL QUALITY PAINT, HIGH GLOSS FINISH, SAFETY YELLOW COLOR (BASIS OF DESIGN - RUSTOLEUM YELLOW #746).

10350-PLACOLITE:

BASIS OF DESIGN - POLETECH MODEL NO. PT3059 OR EQUAL, SUBJECT TO ARCHITECT'S OR DESIGNER'S APPROVAL. (1) 3/8" x EXPOSED HEIGHT, TAPERED ALUMINUM WITH A SATIN BRUSH, CLEAR ANODIZED FINISH. PROVIDE COMPLETE WITH 16 GAUGE GALVANIZED CORRUGATED STEEL FOUNDATION TUBE, CAST METAL PULLEYS, EXTERNAL HAYWARD, CLEARS, SNAP HOOKS, COLLAR, AND BALL. FLAGS WILL BE PROVIDED BY OWNER. PROVIDE FOUNDATION SIZE / DEPTH AND OTHER MATERIALS OR ACCESSORIES PER MANUFACTURERS PUBLISHED INSTALLATION INSTRUCTIONS, DETAILS, AND RECOMMENDATIONS.

10430-BUILDING MOUNTED SIGNAGE:

REFER TO BUILDING ELEVATIONS FOR LOCATIONS. PROVIDED BY OWNER. CONDUIT, ELECTRIC, AND FINAL CONNECTION BY CONTRACTOR.

10522-FIRE EXTINGUISHER:

BASIS OF DESIGN - J.L. INDUSTRIES, INC. (800-554-6077 / www.jlindustries.com) OR KARSEN (800-522-7367 / www.karsenfire.com) OR EQUAL, SUBJECT TO THE ARCHITECT'S APPROVAL. PROVIDE FIRE EXTINGUISHER TYPE AS INDICATED ON THE BUILDING CODE REVIEW / FIRE RATINGS PLAN SHEET. EXTINGUISHERS LOCATED IN FIRE EXTINGUISHER CABINETS AND ON WALL MOUNTED HOOK, COLOR - RED.

10522-FIRE EXTINGUISHER CABINET:

BASIS OF DESIGN - J.L. INDUSTRIES, INC. (800-554-6077 / www.activarrp.com) OR EQUAL, SUBJECT TO THE ARCHITECT'S OR DESIGNER'S APPROVAL. MAINTAIN FIRE RATED WALL CONSTRUCTION, WHERE APPLICABLE.

- A. **PREFERRED** - FULLY RECESSED MODEL 1035/ PLAT TRIM WITH FULL GLASS, FACTORY PAINTED STEEL ENCLOSURE, CLEAR TEMPERED GLASS DOOR WITH SAFETY LOCK, 10-12 INCH WIDE x 6 INCH DEEP x 24 INCH HIGH INSIDE DIMENSIONS. PAINTED FINISH TO MATCH ADJACENT WALL COLOR.
- B. **SEMI-RECESSED** (MODEL 1071) WITH FULL GLASS, FACTORY PAINTED STEEL ENCLOSURE, CLEAR TEMPERED GLASS DOOR WITH SAFETY LOCK, 10-12 INCH WIDE x 6 INCH DEEP x 24 INCH HIGH INSIDE DIMENSIONS. PAINTED FINISH TO MATCH ADJACENT WALL COLOR.

11 23 00-COMMERCIAL WASHER-EXTRACTOR AND DRYING TUMBLER

AS MANUFACTURED BY UNIMAC, CONTRACTOR TO COORDINATE SIZE, OPENING REQUIREMENTS, UTILITY CONNECTIONS, WASHER PAD AND DRAIN REQUIREMENTS WITH SUPPLIER PRIOR TO CONSTRUCTION.

- A. **WASHER EXTRACTOR** - U.I. SERIES, HARDMOUNT, 65 LB. CAPACITY, MODEL HUNW8ST4V
- B. **DRYING TUMBLER** - U.I. SERIES, 75 LB. CAPACITY, MODEL RUT078N (ELECTRIC) OR RUT75N (GAS)

11 30 00-GUEST LAUNDRY WASHERS AND STACKED DRYERS

- A. **WASHER** - AS MANUFACTURED BY SPEED QUEEN, MODEL KSFNBCAS1137V01. MULTI-HOUSING, MICRO DISPLAY, FRONT LOAD, ADA APPROVED WASHER, 14 LB. LOAD CAPACITY, COM-CONTROL KIT (CARD READER) MODEL, ALSO AVAILABLE, COLOR WHITE.
- B. **STACKED DRYER** - AS MANUFACTURED BY SPEED QUEEN "QUANTUM", ELECTRIC, MULTI-HOUSING COMMERCIAL, STACK DRYER, COM DROP INSTALLED, PREP FOR CARD OPERATION, REVERSIBLE DOOR, ADA COMPLANT (BOTTOM DRYER), FRONT SERVICEABLE, COLOR WHITE.

14 91 33-LINEN CHUTE:

AS MANUFACTURED BY MILKSON CHUTES (800-231-3888 / www.whrinc.com), OR MIDLAND CHUTES (847-678-4007 / www.midlandchutes.com), OR US CHUTES CORP. (800-872-4883 / www.uschutes.com), OR CHUTES INTERNATIONAL (800-882-4883 / chutes.com).

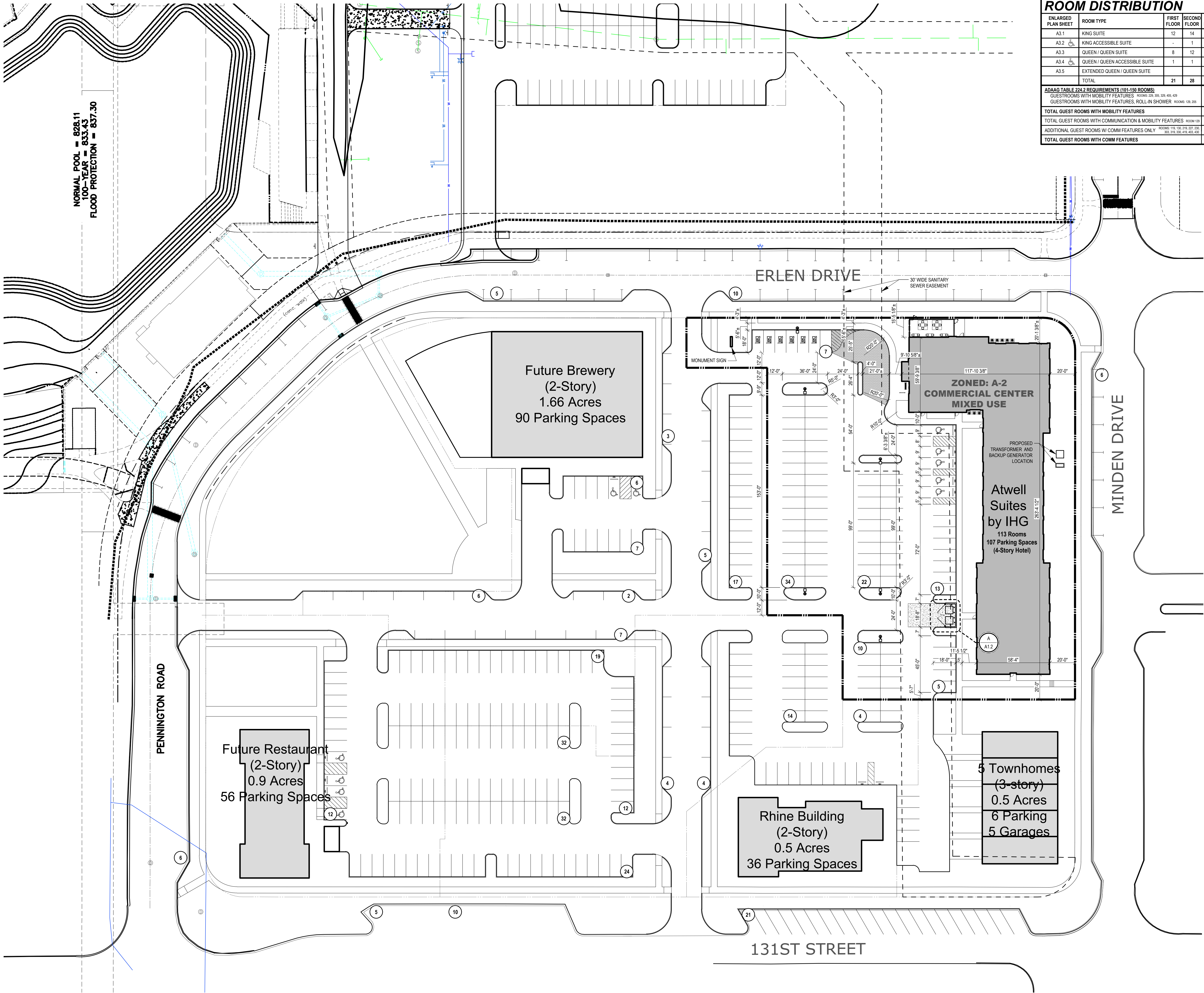
- A. **CHUTE** - 24 INCH DIAMETER, 16 GAUGE ALUMINIZED STEEL CHUTE.
- B. **INTAKE DOOR** - (4) 21 INCHES WIDE x 21 INCHES HIGH DOOR SIZE, STAINLESS STEEL, HAND OPERATED, SELF-CLOSING, POSITIVE LATCHING, SIDE HINGED DOOR WITH FULL 180 DEGREE OPENING SWING, WITH 90 MINUTE, UNDERWRITERS LABORATORIES "B" LABEL DESIGNATION AND RATED FOR A 250 DEGREE F MAXIMUM DOOR TEMPERATURE RISE OVER 30 MINUTES, WITH STAINLESS STEEL TRIM IN U.L. APPROVED MINUTE ASSEMBLY. PROVIDE EXPOSED (UNFIN) NAME PLATE. REFER TO LINEN CHUTE SECTION IN THE ARCHITECTURAL DRAWINGS FOR DOOR HEIGHT ABOVE FLOOR.
- C. **DISCHARGE** - 14 GAUGE ALUMINIZED STEEL, TYPE "H" HOPPER WITH 24 INCHES WIDE x 30 INCHES HIGH, TOP HINGED, HAND OPERATED DOOR BEARING 90 MINUTE 250 DEGREE U.L. "B" LABEL, WITH 165 DEGREE F FUSIBLE LINK, PROVIDE WITH REINFORCED BOTTOM WITH 13 GAUGE IMPACT PLATE. HOPPER TO BE SUPPORTED WITH 2 INCH PIPE PEDESTAL AND EQUIPPED WITH 2 INCH PIPE DRAIN FLANGE FOR CONNECTION BY PLUMBING CONTRACTOR AS REG. BY BUILDING AND / OR FIRE CODES.
- D. **VENT** - EXTEND CHUTE (FULL DIAMETER) THROUGH ROOF TO METAL TOP VENT CAP 4 FEET ABOVE ROOF LEVEL. PROVIDE COUNTER FLASHING AND INSECT SCREEN, A ROOF CURB (44 INCHES x 44 INCHES x MINIMUM OF 8 INCHES HIGH) IS REQUIRED (PROVIDED BY OTHERS).
- E. **ACCESSORIES** - 3/4 INCH INCH FLUSHING SPRAY HEAD.
- F. **SPRINKLER SYSTEM** - PROTECT CHUTE INTERNALLY BY AUTOMATIC SPRINKLERS. A 1/2 INCH SPRINKLER HEAD IS REQUIRED AT OR ABOVE THE TOP INTAKE DOOR OF THE CHUTE. ADDITIONALLY, A 1/2 INCH SPRINKLER HEAD SHALL BE INSTALLED WITHIN THE CHUTE AT ALTERNATE FLOOR LEVELS IN BUILDINGS OVER TWO STORIES IN HEIGHT WITH A MANDATORY SPRINKLER LOCATED AT THE LOWEST SERVICE LEVEL OR AS REQUIRED BY CODE.

14 21 22-ELECTRIC TRACTION ELEVATOR:

AS MANUFACTURED BY KONE, INC. (800-956-5663 / www.kone.com), "ECOSPACE" MODEL, OR BY OTIS ELEVATOR (800-441-6847 / www.otisworldwide.com) "GEN2", OR BY SCHINDLER ELEVATOR (973-397-6500 / www.schindler.com) "3300 SERIES", OR BY THYSSENKRUPP ELEVATOR (877-230-0303 / www.thyssenkrupp.com) "SYNERGY 605".

PROVIDE A MACHINE-ROOMLESS ELECTRIC TRACTION PASSENGER ELEVATOR, THE CONTROL SYSTEM AND CAR DESIGN BASED ON MATERIALS AND SYSTEMS MANUFACTURED BY THE APPROVED MANUFACTURER. THE SYSTEM SHOULD CONSIST OF THE FOLLOWING COMPONENTS: 1) CONTROLLER LOCATED ENTIRELY IN THE HOISTWAY, NO EXTRA MACHINE ROOM OR CONTROL CLOSET SPACE REQUIRED, 2) AN AC GEARLESS MACHINE USING EMBEDDED PERMANENT MAGNETS MOUNTED AT THE TOP OF THE HOISTWAY, 3) POLYURETHANE COATED STEEL BELTS FOR ELEVATOR HOISTING, 4) PREFERRED REGENERATIVE DRIVE THAT CAPTURES NORMALLY WASTED ENERGY AND FEEDS IT BACK TO THE BUILDING'S POWER GRID. IF REGENERATIVE DRIVE IS NOT AVAILABLE, CONTACT THE ARCHITECT FOR CLARIFICATION, 5) LED LIGHTING STANDARD IN CEILING LIGHTS AND ELEVATOR FIXTURES, 6) SLEEP MODE OPERATION FOR LED CEILING LIGHTS AND CAR FAN.

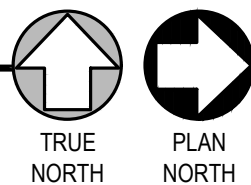
EXAMINATION, PREPARATION, INSTALLATION, PROTECTION, CLEANING, MATERIALS, AND ACCESSORIES PER MANUFACTURERS PUBLISHED INSTALLATION INSTRUCTIONS, DETAILS, AND RECOMMENDATIONS. THE SYSTEM SHOULD CONSIDER THE FOLLOWING COMPONENTS: 1) CONTROLLER LOCATED ENTIRELY IN THE HOISTWAY, NO EXTRA MACHINE ROOM OR CONTROL CLOSET SPACE REQUIRED, 2) AN AC GEARLESS MACHINE USING EMBEDDED PERMANENT MAGNETS MOUNTED AT THE TOP OF THE HOISTWAY, 3) POLYURETHANE COATED STEEL BELTS FOR ELEVATOR HOISTING, 4) PREFERRED REGENERATIVE DRIVE THAT CAPTURES NORM



ROOM DISTRIBUTION							
ENLARGED PLAN SHEET	ROOM TYPE	FIRST FLOOR	SECOND FLOOR	THIRD FLOOR	FOURTH FLOOR	TOTAL	PCT.
A3.1	KING SUITE	12	14	14	14	54	50.4%
A3.2	KING ACCESSIBLE SUITE	-	1	1	1	3	
A3.3	QUEEN / QUEEN SUITE	8	12	14	14	48	
A3.4	QUEEN / QUEEN ACCESSIBLE SUITE	1	1	1	1	4	49.6%
A3.5	EXTENDED QUEEN / QUEEN SUITE	-	-	2	2	4	
TOTAL		21	28	32	32	113	100.0%
ADAAG TABLE 224.2 REQUIREMENTS (101-150 ROOMS)						REQUIRED	PROVIDED
GUESTROOMS WITH MOBILITY FEATURES ROOMS 229, 301, 320, 405, 420						5	5
GUESTROOMS WITH MOBILITY FEATURES, ROLL-IN SHOWER ROOMS 125, 205						2	2
TOTAL GUEST ROOMS WITH MOBILITY FEATURES						7	7
TOTAL GUEST ROOMS WITH COMMUNICATION & MOBILITY FEATURES ROOM 129						1	1
ADDITIONAL GUEST ROOMS W/ COMM FEATURES ONLY ROOMS 115, 130, 210, 227, 230, 250, 310, 320, 410, 450, 455						11	11
TOTAL GUEST ROOMS WITH COMM FEATURES						12	12

FIRST FLOOR = 17,379 GSF
SECOND FLOOR = 16,673 GSF
THIRD FLOOR = 17,288 GSF
FOURTH FLOOR = 17,288 GSF
TOTAL SF = 68,628 GSF

ARCHITECTURAL SITE PLAN
SCALE: 1" = 30'-0"



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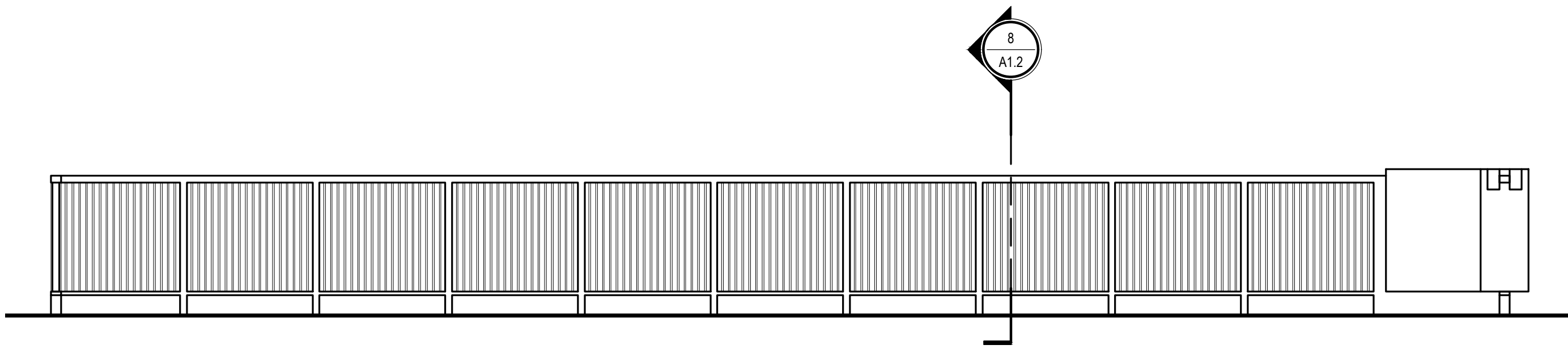
ARCHITECTURAL SITE PLAN

ISSUE / REVISION DATE:
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● 08/04/2022 PRELIMINARY REVIEW
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● 01/26/2024 FOR CONSTRUCTION

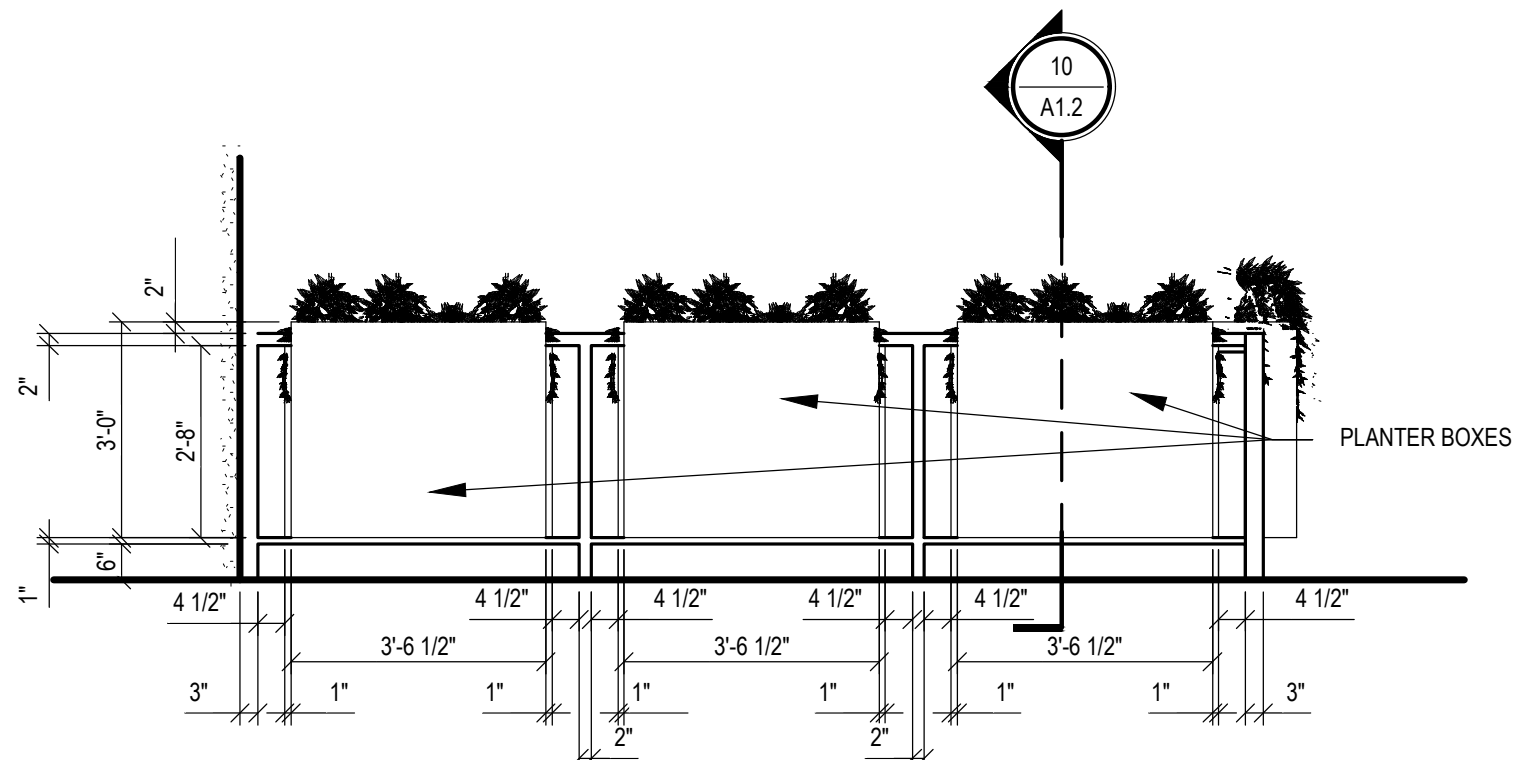
SMR Project No. **AWSFIN**

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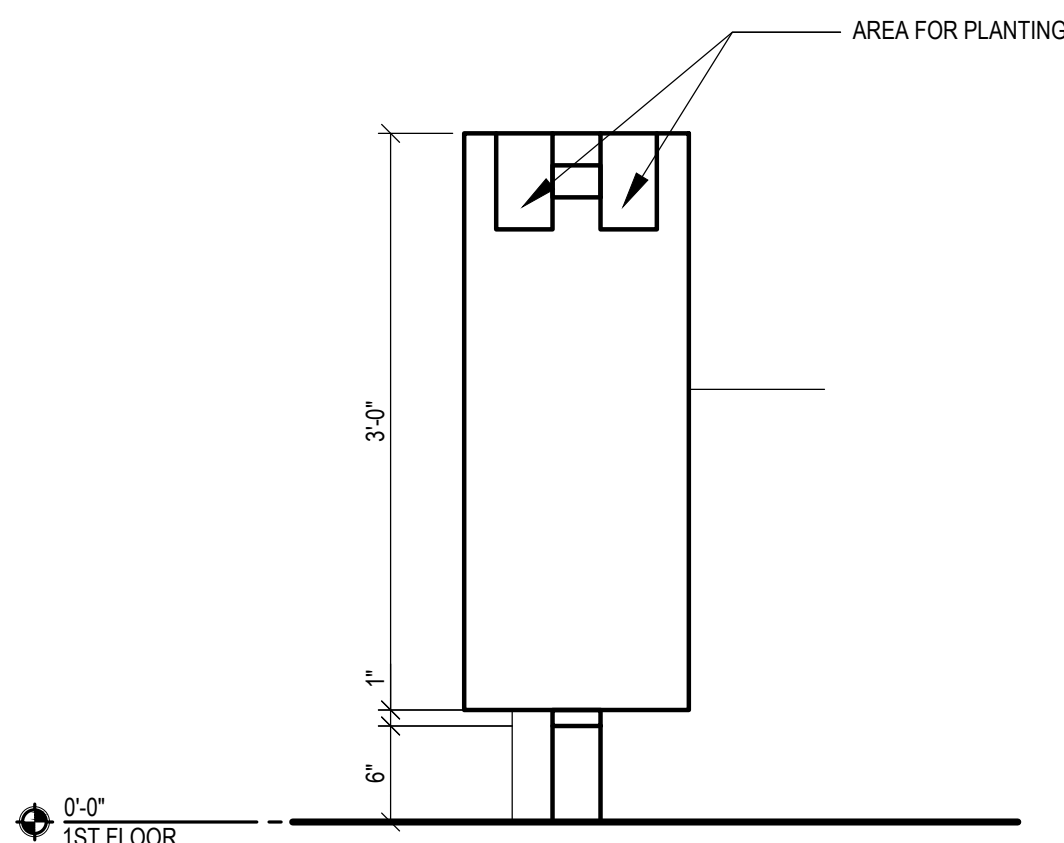
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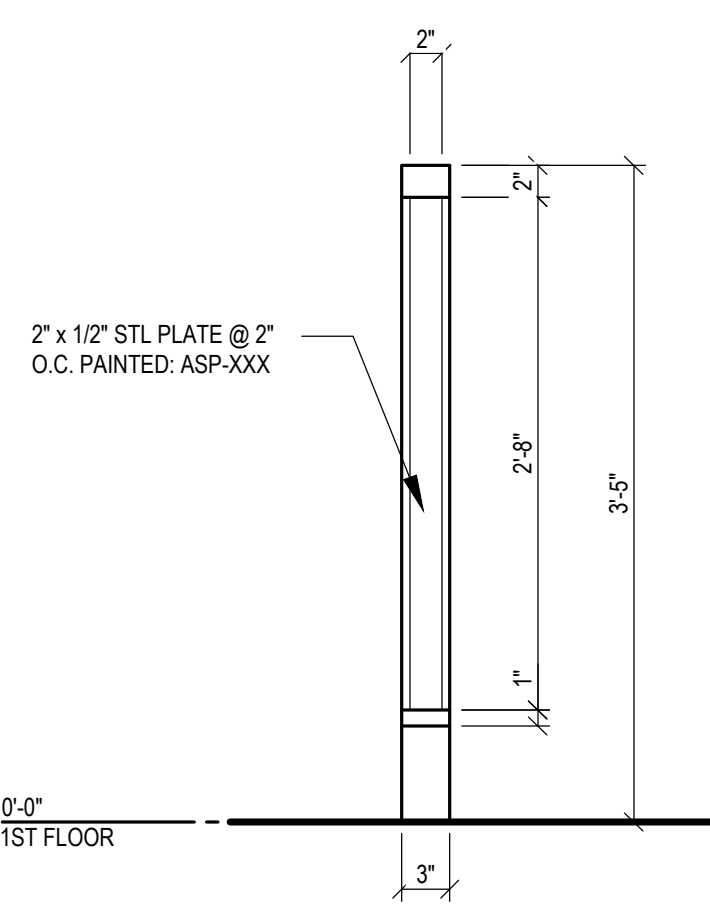
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A1.2
OPTIONAL PATIO - ELEVATION
SCALE: 3/8" = 1'-0"



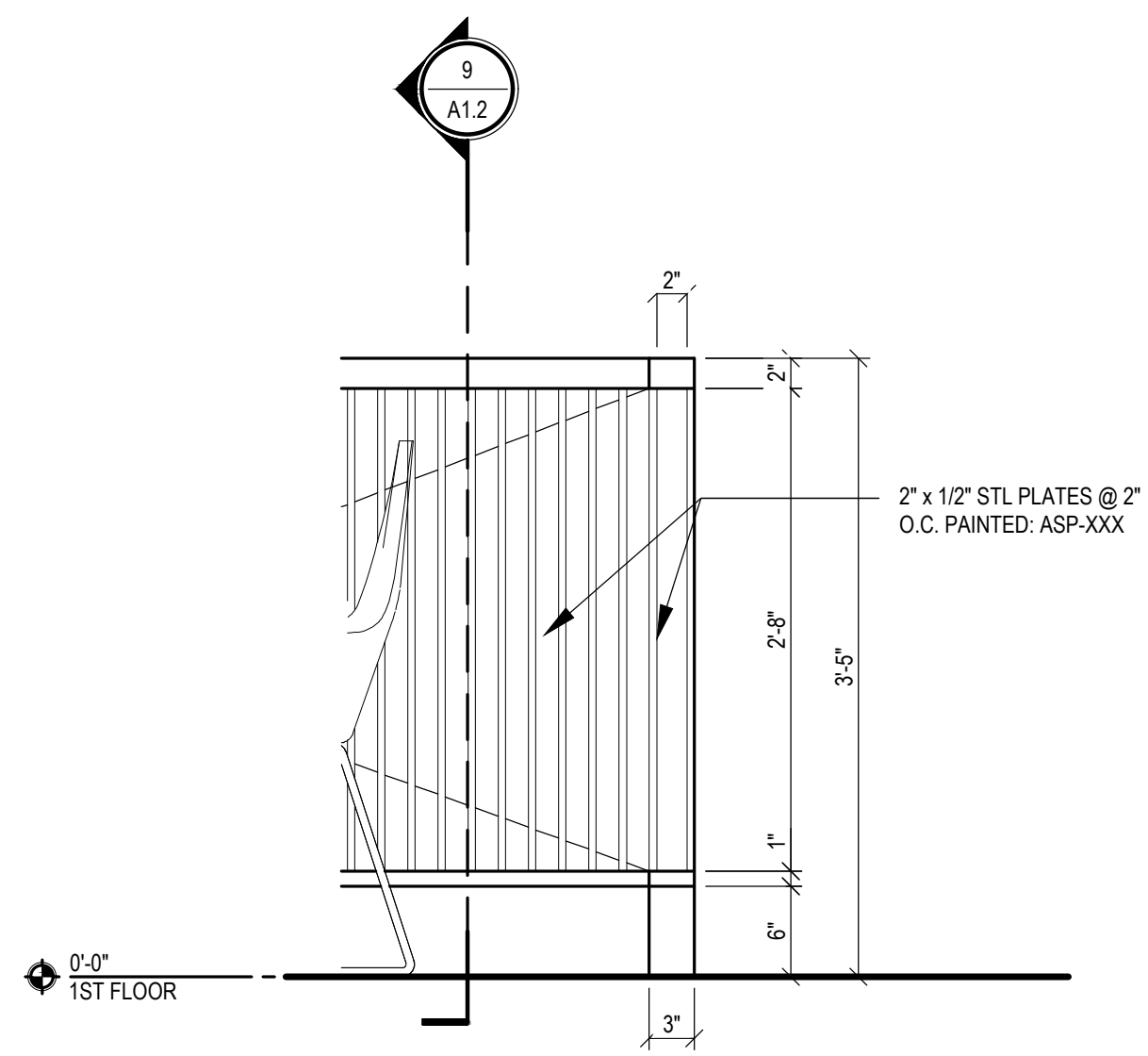
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A1.2
OPTIONAL PATIO - ELEVATION
SCALE: 3/8" = 1'-0"



10
A1.2
**OPTIONAL PATIO - RAILING
WITH PLANTER SECTION**
SCALE: 1" = 1'-0"

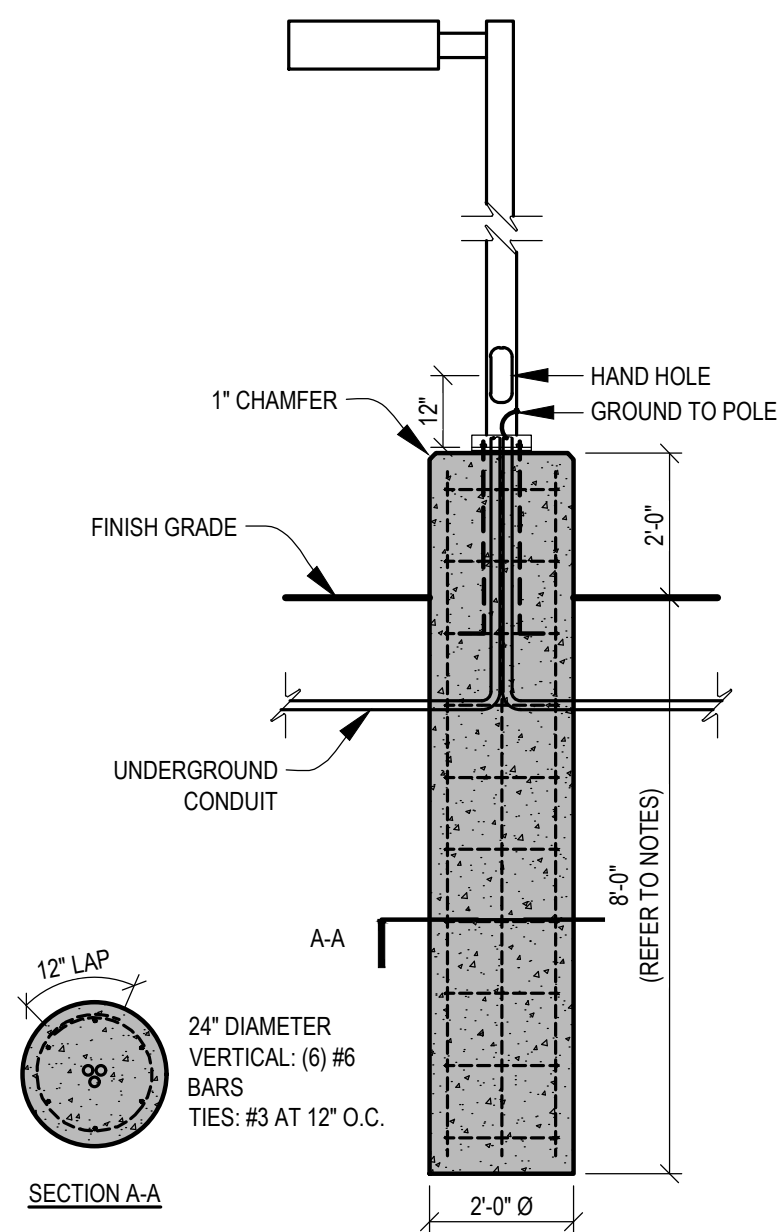


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A1.2
**OPTIONAL PATIO - RAILING
WITH GATE SECTION**
SCALE: 1" = 1'-0"

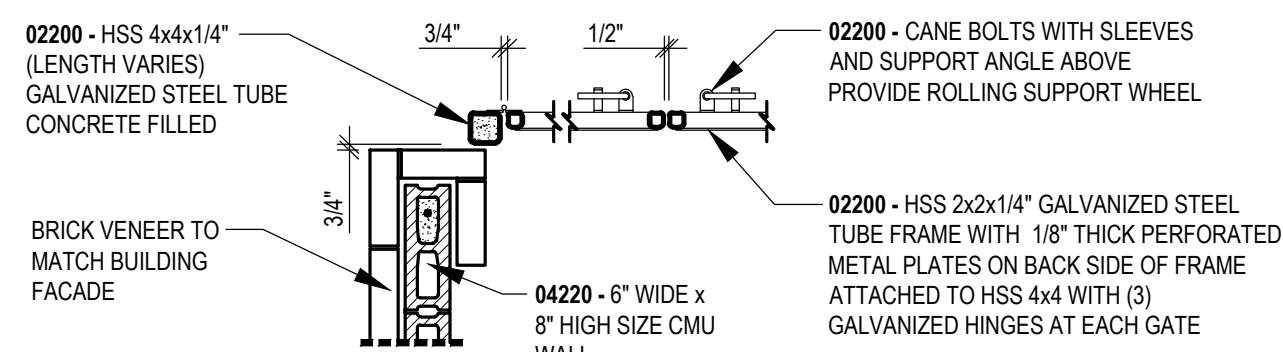


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A1.2
**OPTIONAL PATIO - RAILING
TYP. SECTION**
SCALE: 1" = 1'-0"

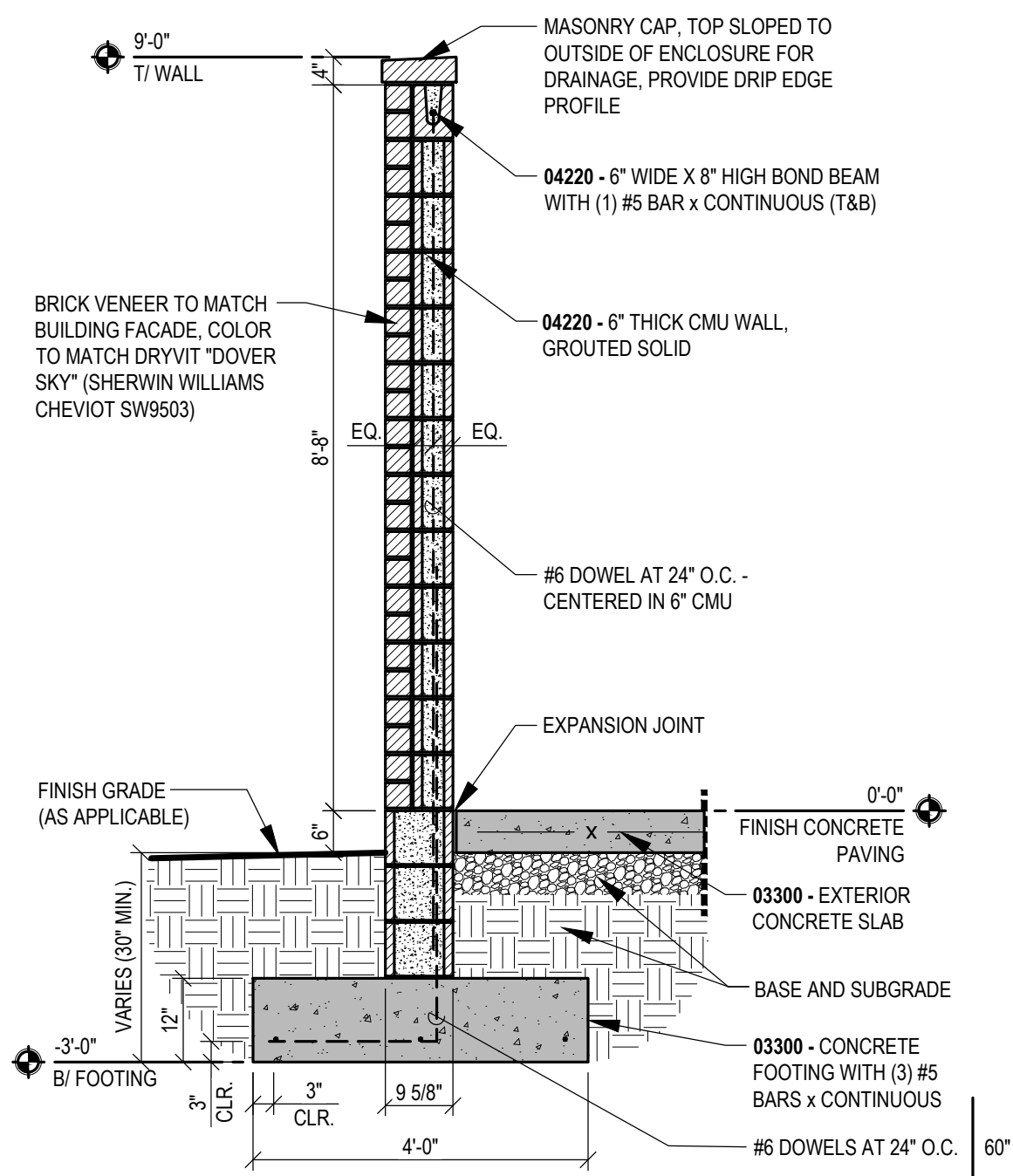
NOTES FOR LIGHT POLE AND BASE:
EMBEDMENT DEPTH ON MEDIUM STIFF
CLAY OR ENGINEERED FILL
3,000 PSI AT 28 DAYS, AIR ENTRAINED (5%
± 1/2%) CONCRETE
ASTM A615 OR A616, GRADE 60
REINFORCING, EXCEPT TIES WHICH MAY
BE GRADE 40
COORDINATE THIS INFORMATION WITH
POLE BASE AND ANCHOR BOLTS



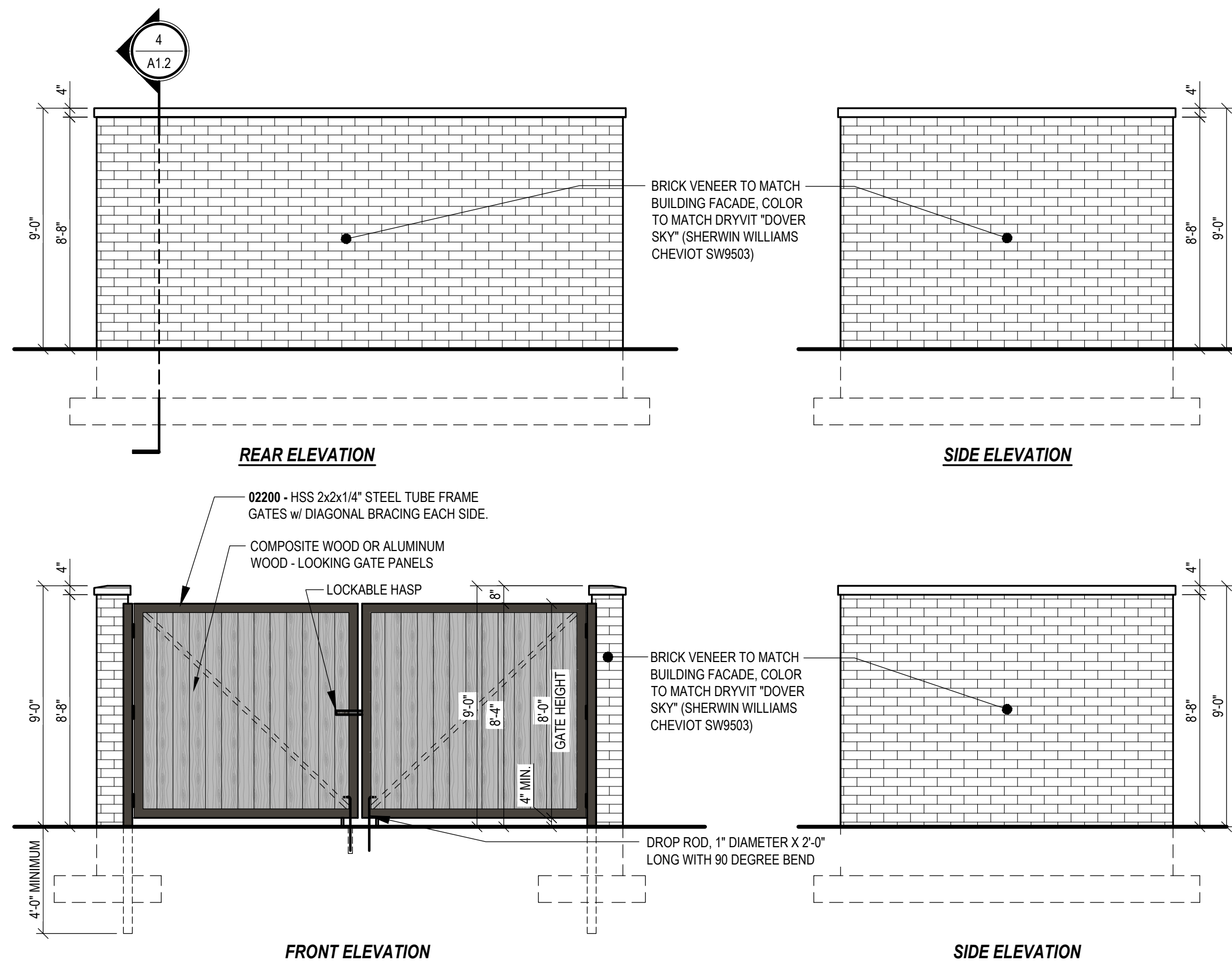
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A1.2
TYPICAL POLE LIGHT BASE
SCALE: 3/8" = 1'-0"



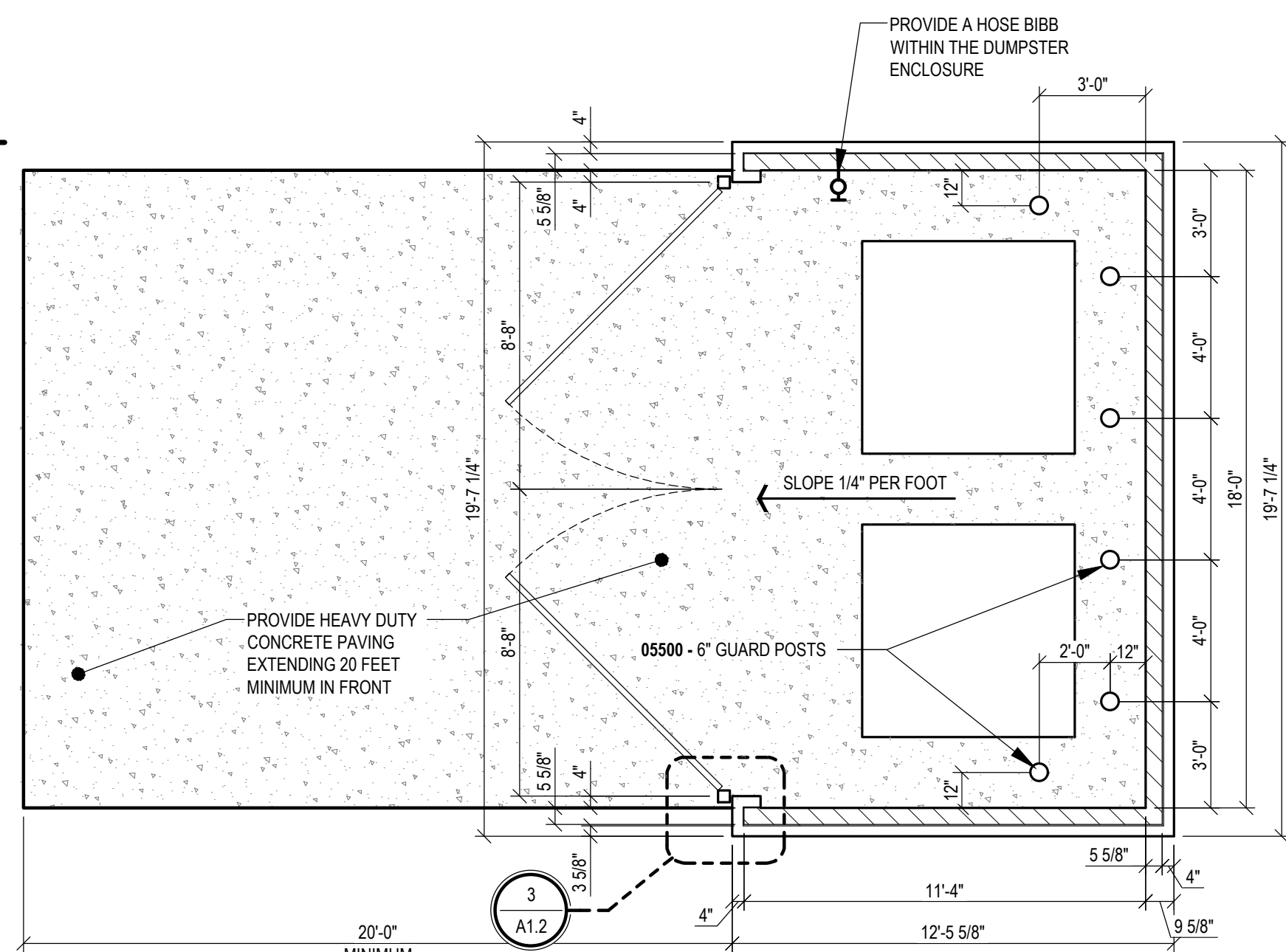
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A1.2
DUMPSTER WALL / GATE DETAIL
SCALE: 1/2" = 1'-0"



4
A1.2
TYPICAL SECTION
SCALE: 1/2" = 1'-0"



2
A1.2
DUMPSTER ENCLOSURE ELEVATIONS
SCALE: 1/4" = 1'-0"



A
A1.1
DUMPSTER ENCLOSURE PLAN
SCALE: 1/4" = 1'-0"

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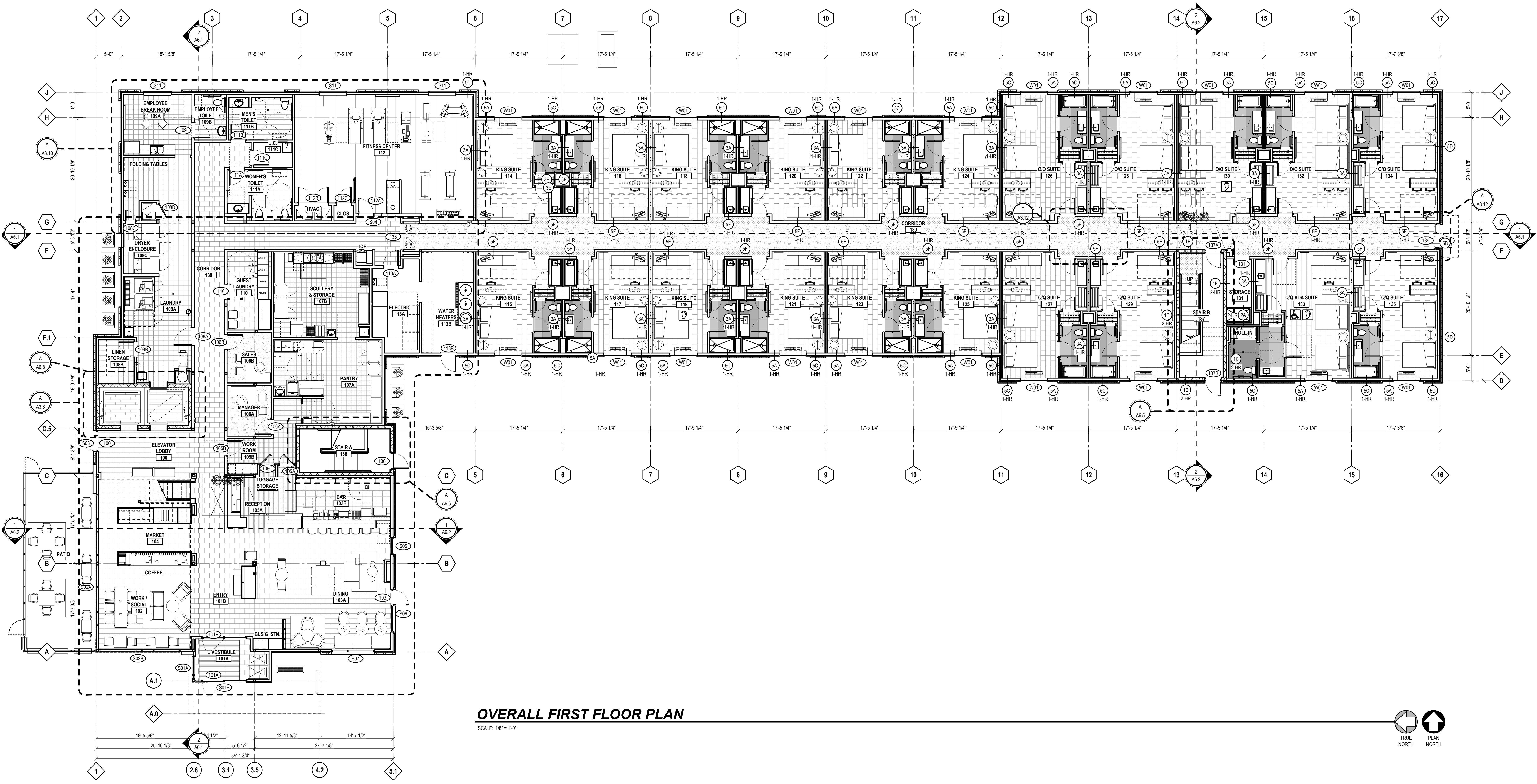
SITE DETAILS

ISSUE / REVISION DATE:
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A1.2

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OVERALL FIRST FLOOR PLAN

SCALE: 1/8" = 1'-0"

ROOM DISTRIBUTION						
ENLARGED PLAN SHEET	ROOM TYPE	FIRST FLOOR	SECOND FLOOR	THIRD FLOOR	FOURTH FLOOR	TOTAL
A3.1	KING SUITE	12	14	14	14	54
A3.2	KING ACCESSIBLE SUITE	-	1	1	1	3
A3.3	QUEEN / QUEEN SUITE	8	12	14	14	48
A3.4	QUEEN / QUEEN ACCESSIBLE SUITE	1	1	1	1	4
A3.5	EXTENDED QUEEN / QUEEN SUITE	-	-	2	2	4
TOTAL		21	28	32	32	113
ADAAG TABLE 224.2 REQUIREMENTS (101-150 ROOMS)						
GUESTROOMS WITH MOBILITY FEATURES		REQUIRED		PROVIDED		
GUESTROOMS WITH MOBILITY FEATURES, ROLL-IN SHOWER		5		5		
GUESTROOMS WITH MOBILITY FEATURES, ROLL-IN SHOWER		2		2		
TOTAL GUEST ROOMS WITH MOBILITY FEATURES		7		7		
TOTAL GUEST ROOMS WITH COMMUNICATION & MOBILITY FEATURES		1		1		
ADDITIONAL GUEST ROOMS W/ COMM FEATURES ONLY		11		11		
TOTAL GUEST ROOMS WITH COMM FEATURES		12		12		

FIRST FLOOR = 17,379 GSF
SECOND FLOOR = 16,673 GSF
THIRD FLOOR = 17,288 GSF
FOURTH FLOOR = 17,288 GSF
TOTAL SF = 68,628 GSF

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OVERALL FIRST FLOOR PLAN

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- 01/26/2024 FOR CONSTRUCTION

SMR Project No. AWSFIN

A2.1

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STEVEN M. ROBERTS, MARY1210093
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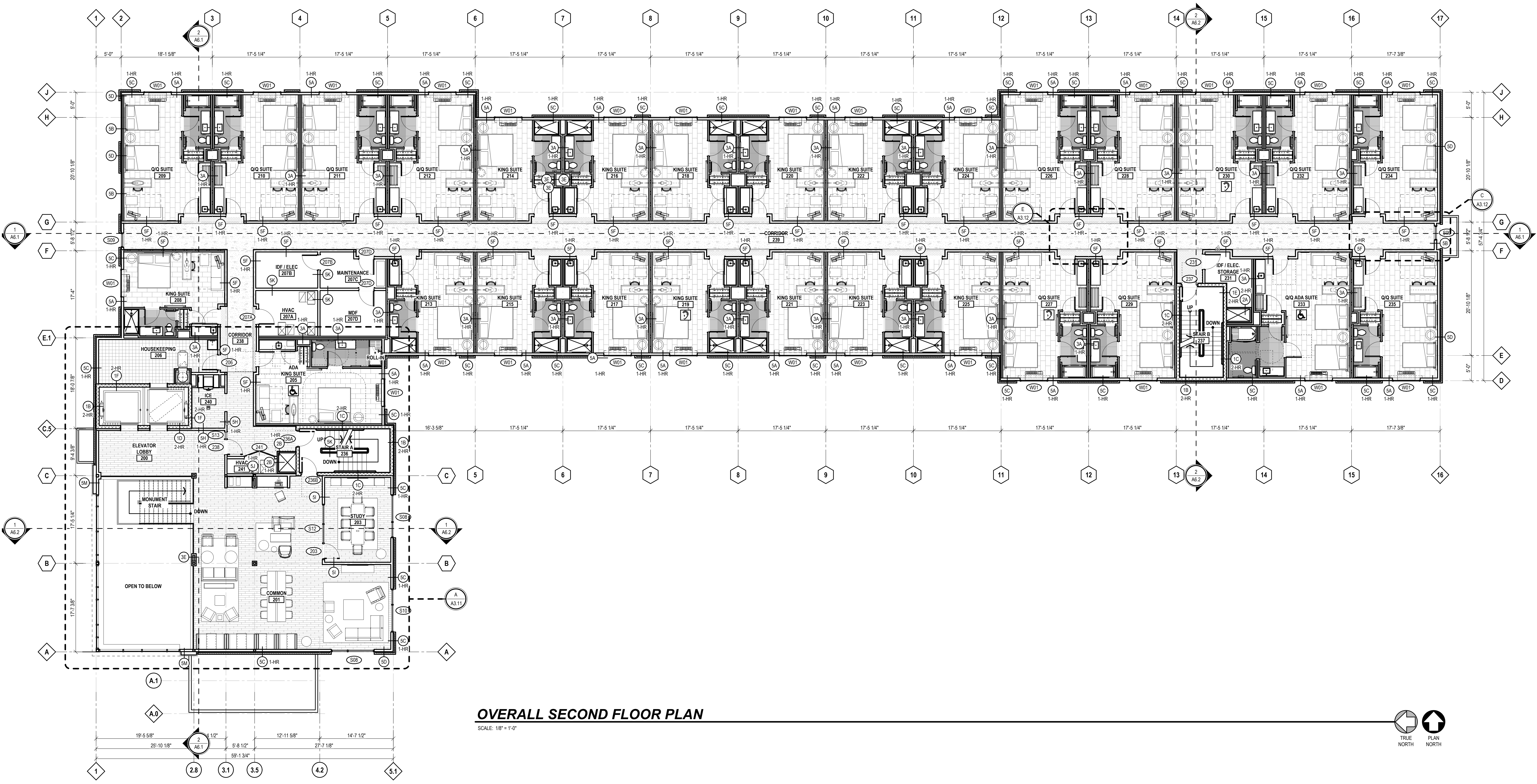
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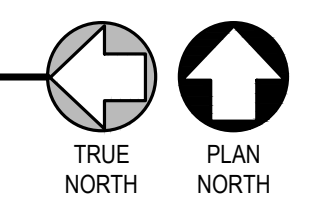
OVERALL SECOND FLOOR PLAN

SMR Project No. **AWSFIN**

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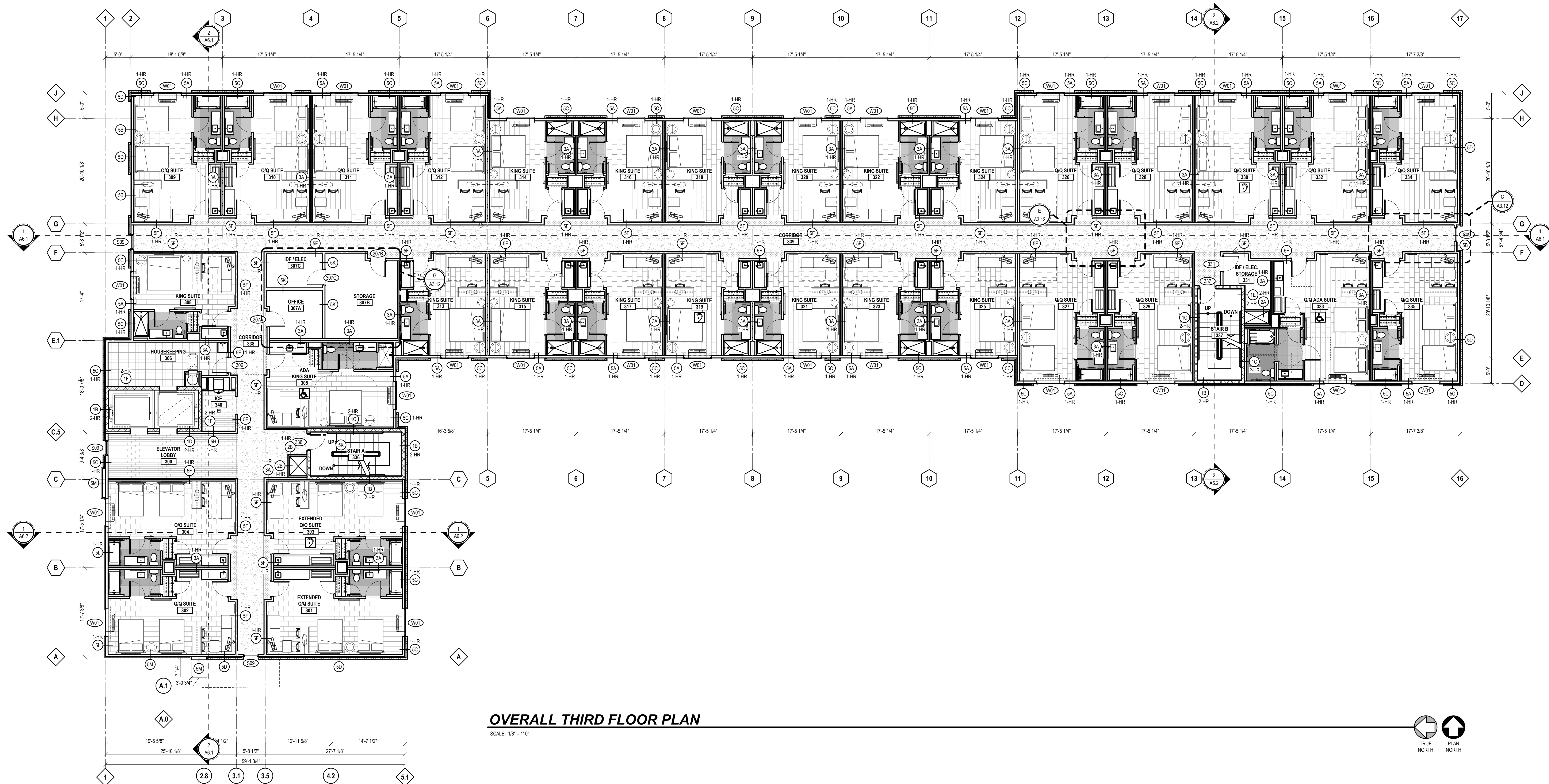
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ROOM DISTRIBUTION

ENLARGED PLAN SHEET	ROOM TYPE	FIRST FLOOR	SECOND FLOOR	THIRD FLOOR	FOURTH FLOOR	TOTAL	PCT.
A3.1	KING SUITE	12	14	14	14	54	50.4%
A3.2	KING ACCESSIBLE SUITE	-	1	1	1	3	
A3.3	QUEEN / QUEEN SUITE	8	12	14	14	48	
A3.4	QUEEN / QUEEN ACCESSIBLE SUITE	1	1	1	1	4	49.8%
A3.5	EXTENDED QUEEN / QUEEN SUITE	-	-	2	2	4	
TOTAL		21	28	32	32	113	100.0%
ADAAG TABLE 224.2 REQUIREMENTS (101-150 ROOMS)				REQUIRED	PROVIDED		
GUESTROOMS WITH MOBILITY FEATURES: ROOMS 325, 326, 329, 402, 420				5	5		
GUESTROOMS WITH MOBILITY FEATURES, ROLL-IN SHOWER: ROOMS 129, 205				2	2		
TOTAL GUEST ROOMS WITH MOBILITY FEATURES				7	7		
TOTAL GUEST ROOMS WITH COMMUNICATION & MOBILITY FEATURES: ROOM 129				1	1		
ADDITIONAL GUEST ROOMS W/ COMM FEATURES ONLY: ROOMS 119, 126, 216, 227, 234, 203, 319, 330, 416, 423, 426				11	11		
TOTAL GUEST ROOMS WITH COMM FEATURES				12	12		

FIRST FLOOR = 17,379 GSF
SECOND FLOOR = 16,673 GSF
THIRD FLOOR = 17,288 GSF
FOURTH FLOOR = 17,288 GSF
TOTAL SF = 68,628 GSF



OVERALL THIRD FLOOR PLAN

SCALE: 1/8" = 1'-0"

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OVERALL THIRD FLOOR PLAN

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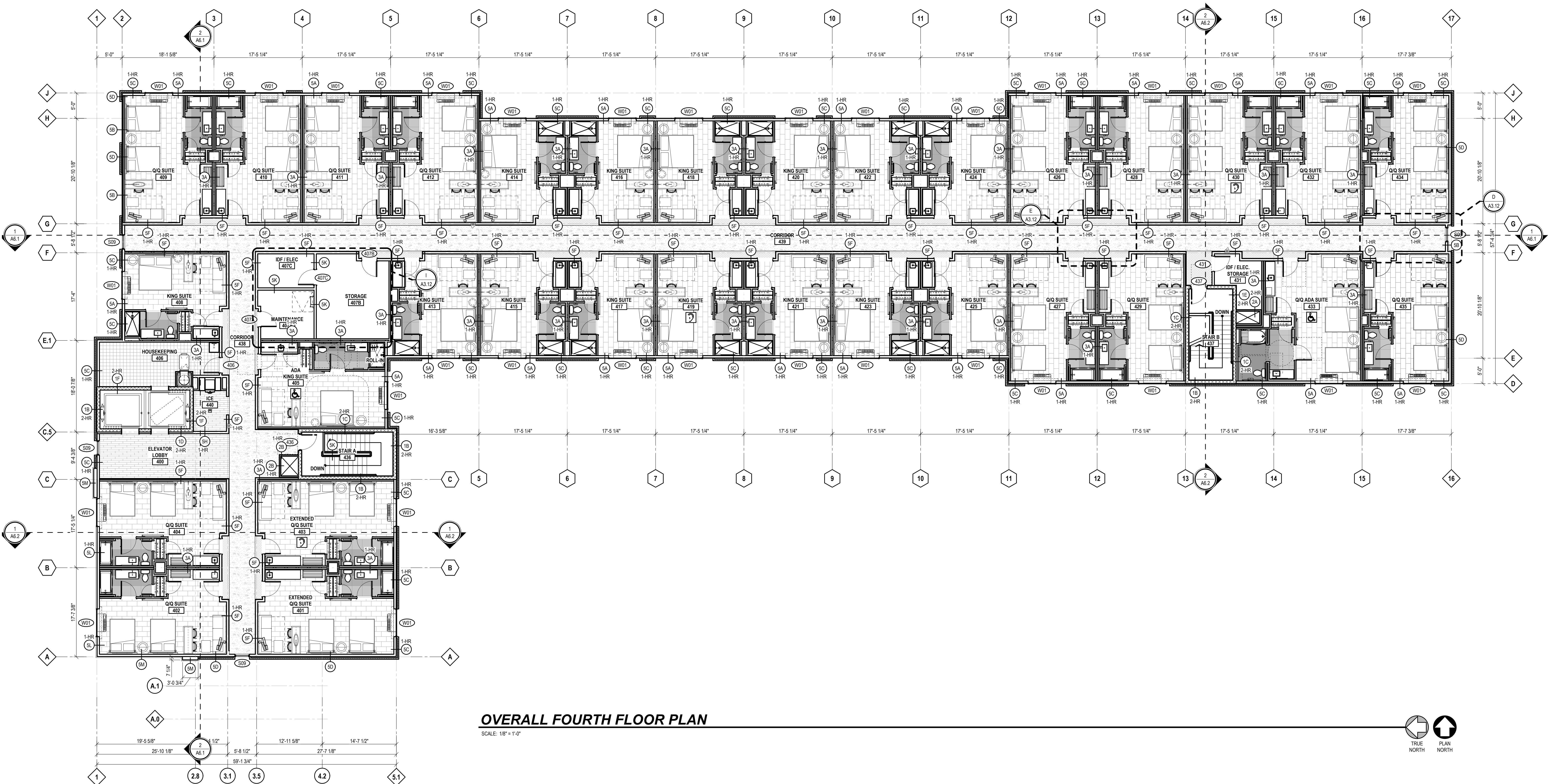
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ROOM DISTRIBUTION

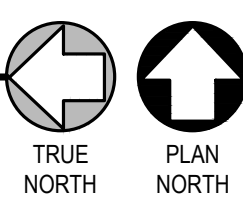
ENLARGED PLAN SHEET	ROOM TYPE	FIRST FLOOR	SECOND FLOOR	THIRD FLOOR	FOURTH FLOOR	TOTAL	PCT.
A3.1	KING SUITE	12	14	14	14	54	50.4%
A3.2	KING ACCESSIBLE SUITE	-	1	1	1	3	
A3.3	QUEEN / QUEEN SUITE	8	12	14	14	48	
A3.4	QUEEN / QUEEN ACCESSIBLE SUITE	1	1	1	1	4	49.8%
A3.5	EXTENDED QUEEN / QUEEN SUITE	-	-	2	2	4	
TOTAL		21	28	32	32	113	100.0%
ADAAG TABLE 224.2 REQUIREMENTS (101-150 ROOMS)			REQUIRED	PROVIDED			
GUESTROOMS WITH MOBILITY FEATURES ROOMS 129, 305, 326, 405, 429			5	5			
GUESTROOMS WITH MOBILITY FEATURES, ROLL-IN SHOWER ROOMS 129, 305			2	2			
TOTAL GUEST ROOMS WITH MOBILITY FEATURES			7	7			
TOTAL GUEST ROOMS WITH COMMUNICATION & MOBILITY FEATURES ROOM 129			1	1			
ADDITIONAL GUEST ROOMS W/ COMM FEATURES ONLY ROOMS 119, 135, 216, 227, 234, 303, 319, 330, 416, 423, 430			11	11			
TOTAL GUEST ROOMS WITH COMM FEATURES			12	12			

FIRST FLOOR = 17,379 GSF
SECOND FLOOR = 16,673 GSF
THIRD FLOOR = 17,288 GSF
FOURTH FLOOR = 17,288 GSF
TOTAL SF = 68,628 GSF



OVERALL FOURTH FLOOR PLAN

SCALE: 1/8" = 1'-0"



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OVERALL FOURTH FLOOR PLAN

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A2.4

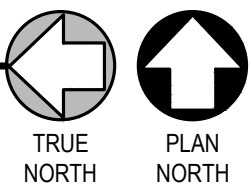
STEVEN MICHAEL ROBERTS, ARCHITECT
REGISTERED ARCHITECT
No. AR12100093
STATE OF INDIANA
STEVEN M. ROBERTS, ARCHITECT
3803 DESTINY COURT
CINCINNATI, OHIO 45227
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costandi ARCHITECTURE + PLANNING



ERLEN DR. & MINDEN DR. FISHERS, INDIANA 46037 HAMILTON COUNTY

REVISION DATE:	
5/04/2022	OWNER REVIEW
6/23/2022	OWNER REVIEW
8/04/2022	PRELIMINARY REVIEW
1/13/2023	FRANCHISE REVIEW
4/21/2023	FRANCHISE REVIEW
5/17/2023	SAXONY DESIGN REVIEW 1
9/19/2023	IHG FINAL REVIEW
1/17/2023	SAXONY DESIGN REVIEW 2
1/26/2024	FOR CONSTRUCTION

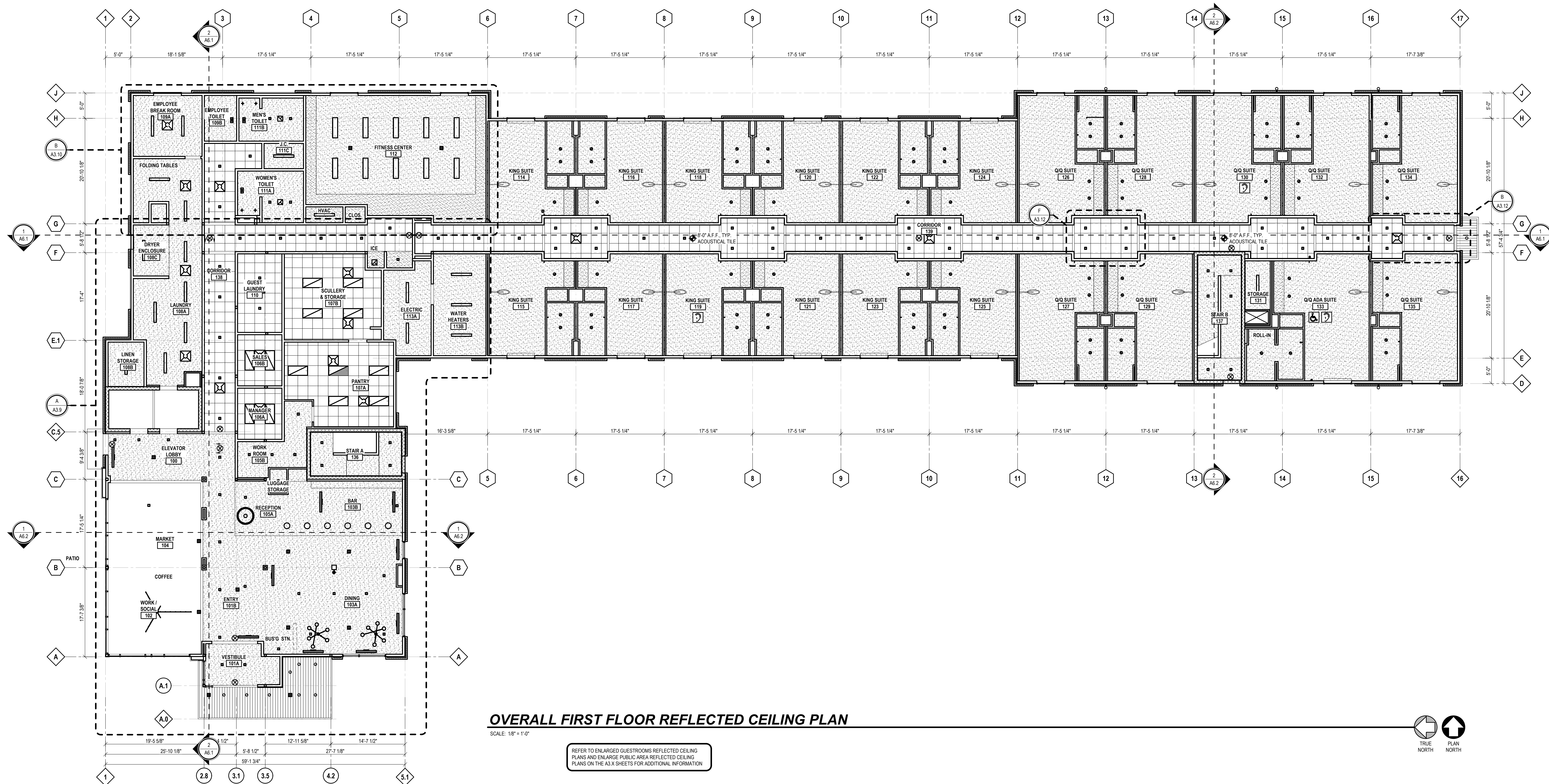
A2.5



ROOM DISTRIBUTION

ENLARGED PLAN SHEET	ROOM TYPE	FIRST FLOOR	SECOND FLOOR	THIRD FLOOR	FOURTH FLOOR	TOTAL	PCT.
A3.1	KING SUITE	12	14	14	14	54	50.4%
A3.2	KING ACCESSIBLE SUITE	-	1	1	1	3	
A3.3	QUEEN / QUEEN SUITE	8	12	14	14	48	
A3.4	QUEEN / QUEEN ACCESSIBLE SUITE	1	1	1	1	4	49.6%
A3.5	EXTENDED QUEEN / QUEEN SUITE			2	2	4	
TOTAL		21	28	32	32	113	100.0%
ADAAG TABLE 224.2 REQUIREMENTS (101-150 ROOMS)							
GUESTROOMS WITH MOBILITY FEATURES ROOMS 20, 30, 30S, 40, 40S				5		5	
GUESTROOMS WITH MOBILITY FEATURES ROLL-IN SHOWERS ROOMS 120, 200				2		2	
TOTAL GUEST ROOMS WITH MOBILITY FEATURES				7		7	
TOTAL GUEST ROOMS WITH COMMUNICATION & MOBILITY FEATURES ROOMS 129				1		1	
ADDITIONAL GUEST ROOMS W/ COMM FEATURES ONLY ROOMS 101, 101S, 201, 201S, 301, 301S, 401, 401S, 501, 501S, 601, 601S, 701, 701S, 801, 801S, 901, 901S, 1001, 1001S, 1101, 1101S, 1201, 1201S, 1301, 1301S, 1401, 1401S, 1501, 1501S, 1601, 1601S, 1701, 1701S, 1801, 1801S, 1901, 1901S, 2001, 2001S, 2101, 2101S, 2201, 2201S, 2301, 2301S, 2401, 2401S, 2501, 2501S, 2601, 2601S, 2701, 2701S, 2801, 2801S, 2901, 2901S, 3001, 3001S, 3101, 3101S, 3201, 3201S, 3301, 3301S, 3401, 3401S, 3501, 3501S, 3601, 3601S, 3701, 3701S, 3801, 3801S, 3901, 3901S, 4001, 4001S, 4101, 4101S, 4201, 4201S, 4301, 4301S, 4401, 4401S, 4501, 4501S, 4601, 4601S, 4701, 4701S, 4801, 4801S, 4901, 4901S, 5001, 5001S, 5101, 5101S, 5201, 5201S, 5301, 5301S, 5401, 5401S, 5501, 5501S, 5601, 5601S, 5701, 5701S, 5801, 5801S, 5901, 5901S, 6001, 6001S, 6101, 6101S, 6201, 6201S, 6301, 6301S, 6401, 6401S, 6501, 6501S, 6601, 6601S, 6701, 6701S, 6801, 6801S, 6901, 6901S, 7001, 7001S, 7101, 7101S, 7201, 7201S, 7301, 7301S, 7401, 7401S, 7501, 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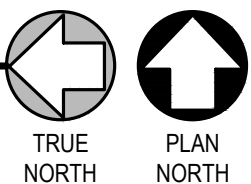
FIRST FLOOR = 17,379 GSF
SECOND FLOOR = 16,673 GSF
THIRD FLOOR = 17,288 GSF
FOURTH FLOOR = 17,288 GSF
TOTAL SF = 68,628 GSF



OVERALL FIRST FLOOR REFLECTED CEILING PLAN

SCALE: 1/8" = 1'-0"

REFER TO ENLARGED GUESTROOMS REFLECTED CEILING PLANS AND ENLARGED PUBLIC AREA REFLECTED CEILING PLANS ON THE A3.X SHEETS FOR ADDITIONAL INFORMATION



ATWELL SUITES

AN IHG HOTEL

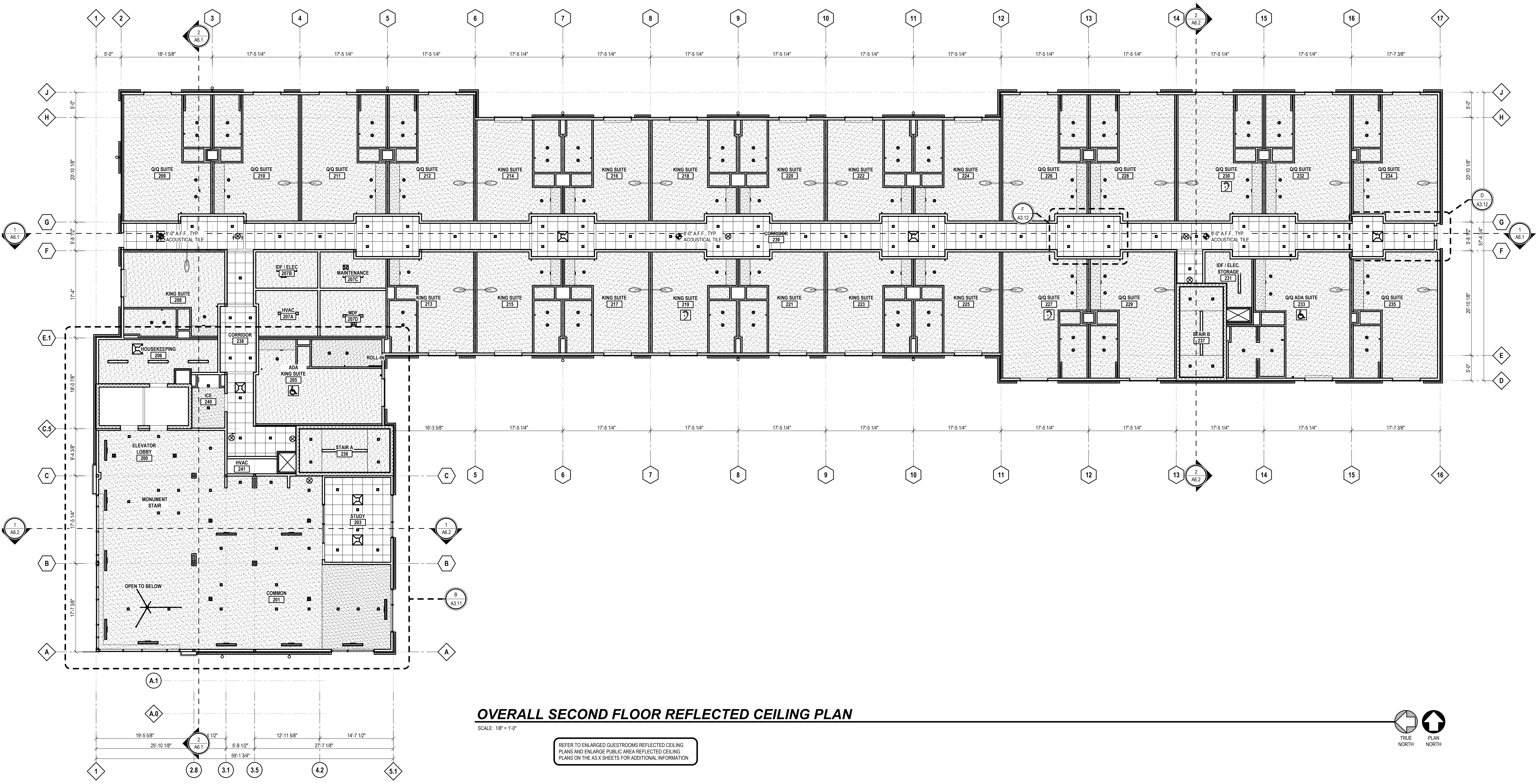
ERLEN DR. & MINDEN DR. FISHERS, INDIANA 46037 HAMILTON COUNTY

OVERALL FIRST FLOOR
REFLECTED CEILING PLAN

- ISSUE / REVISION DATE:
- 05/04/2022 OWNER REVIEW
 - 06/23/2022 OWNER REVIEW
 - 08/04/2022 PRELIMINARY REVIEW
 - 01/13/2023 FRANCHISE REVIEW
 - 04/21/2023 FRANCHISE REVIEW
 - 05/17/2023 SAKONY DESIGN REVIEW 1
 - 09/19/2023 HIG FINAL REVIEW
 - 11/17/2023 SAKONY DESIGN REVIEW 2
 - 01/26/2024 FOR CONSTRUCTION

SMR Project No. AWSFIN

A2.6



OVERALL SECOND FLOOR REFLECTED CEILING PLAN

SCALE: 1/8" = 1'-0"

REFER TO ENLARGED GUESTROOMS REFLECTED CEILING PLANS AND ENLARGED PUBLIC AREA REFLECTED CEILING PLANS ON THE A3.X SHEETS FOR ADDITIONAL INFORMATION

ROOM DISTRIBUTION						
ENLARGED PLAN SHEET	ROOM TYPE	FIRST FLOOR	SECOND FLOOR	THIRD FLOOR	FOURTH FLOOR	TOTAL
A3.1	KING SUITE	12	14	14	14	54
A3.2	KING ACCESSIBLE SUITE	-	1	1	1	3
A3.3	QUEEN / QUEEN ACCESSIBLE SUITE	8	12	14	14	48
A3.4	QUEEN / QUEEN ACCESSIBLE SUITE	1	1	1	1	4
A3.5	EXTENDED QUEEN / QUEEN SUITE	-	2	2	2	4
TOTAL		21	28	32	32	113
ADAAG TABLE 224.2 REQUIREMENTS (101-150 ROOMS)		REQUIRED		PROVIDED		
GUESTROOMS WITH MOBILITY FEATURES: ROOMS 225, 226, 227, 228, 229		5		5		
GUESTROOMS WITH MOBILITY FEATURES, ROLL-IN SHOWER: ROOMS 120, 205		2		2		
TOTAL GUEST ROOMS WITH MOBILITY FEATURES		7		7		
TOTAL GUEST ROOMS WITH COMMUNICATION & MOBILITY FEATURES: ROOM 129		1		1		
ADDITIONAL GUEST ROOMS W/ COMM FEATURES ONLY: ROOMS 119, 120, 216, 227, 229, 230, 219, 220, 416, 423, 420		11		11		
TOTAL GUEST ROOMS WITH COMM FEATURES		12		12		

FIRST FLOOR = 17,379 GSF
SECOND FLOOR = 16,673 GSF
THIRD FLOOR = 17,288 GSF
FOURTH FLOOR = 17,288 GSF
TOTAL SF = 68,628 GSF

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ERLEN DR. & MINDEN DR. FISHERS, INDIANA 46037 HAMILTON COUNTY

OVERALL SECOND FLOOR
REFLECTED CEILING PLAN

- ISSUE / REVISION DATE:
- 05/04/2022 OWNER REVIEW
 - 06/23/2022 OWNER REVIEW
 - 08/04/2022 PRELIMINARY REVIEW
 - 01/13/2023 FRANCHISE REVIEW
 - 04/21/2023 FRANCHISE REVIEW
 - 05/17/2023 SAKONY DESIGN REVIEW 1
 - 09/19/2023 HIG FINAL REVIEW
 - 11/17/2023 SAKONY DESIGN REVIEW 2
 - 01/26/2024 FOR CONSTRUCTION

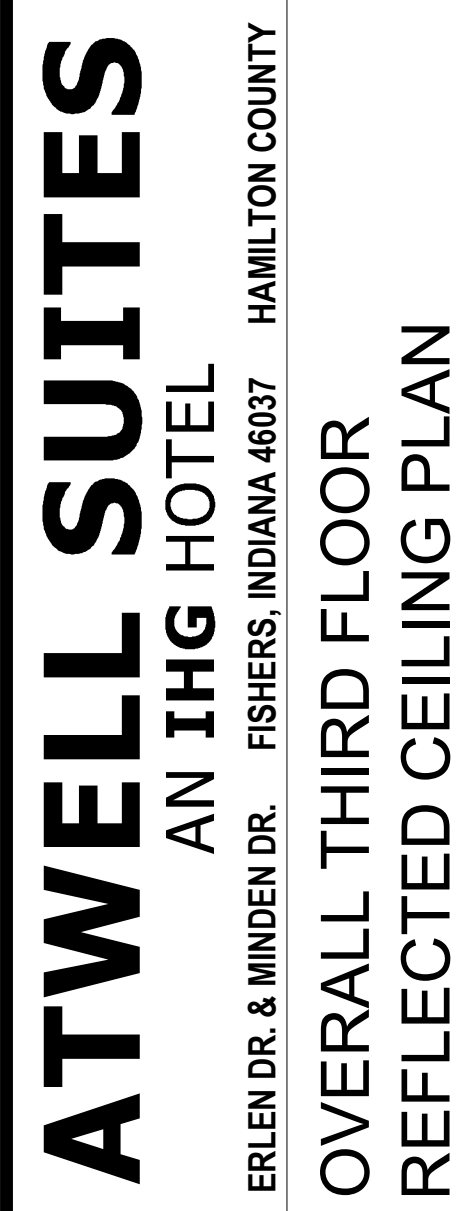
SMR Project No. **AWSFIN**

A2.7

STEVEN MICHAEL ROBERTS
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Steven Michael Roberts
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EXPIRATION DATE 12/31/2014

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ISSUE / REVISION DATE:

05/04/2022	OWNER REVIEW
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● 01/13/2023	FRANCHISE REVIEW
● 04/21/2023	FRANCHISE REVIEW
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● 09/19/2023	IHG FINAL REVIEW
● 11/17/2023	SAXONY DESIGN REVIEW 2
● 01/26/2024	FOR CONSTRUCTION

SMR Project No. **AWSFIN**

A2.8

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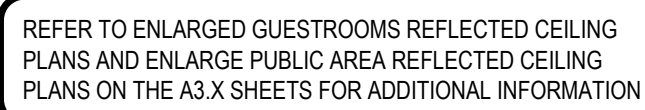
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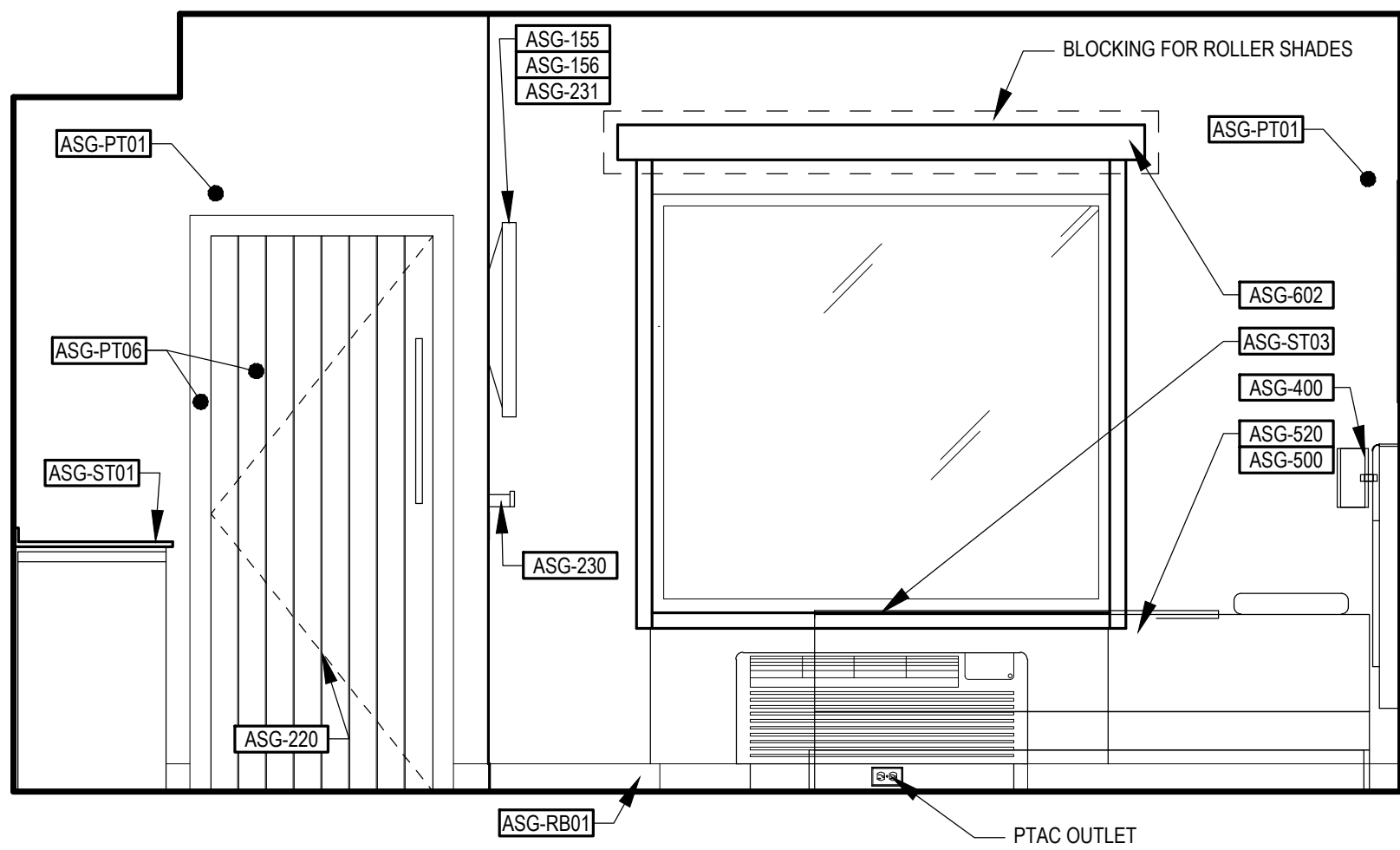
ATWELL SUITES
AN IHG HOTEL
ERLEN DR. & MINDEN DR. FISHERS, INDIANA 46037 HAMILTON COUNTY

OVERALL FOURTH FLOOR
REFLECTED CEILING PLAN

SMR Project No. **AWSFIN**

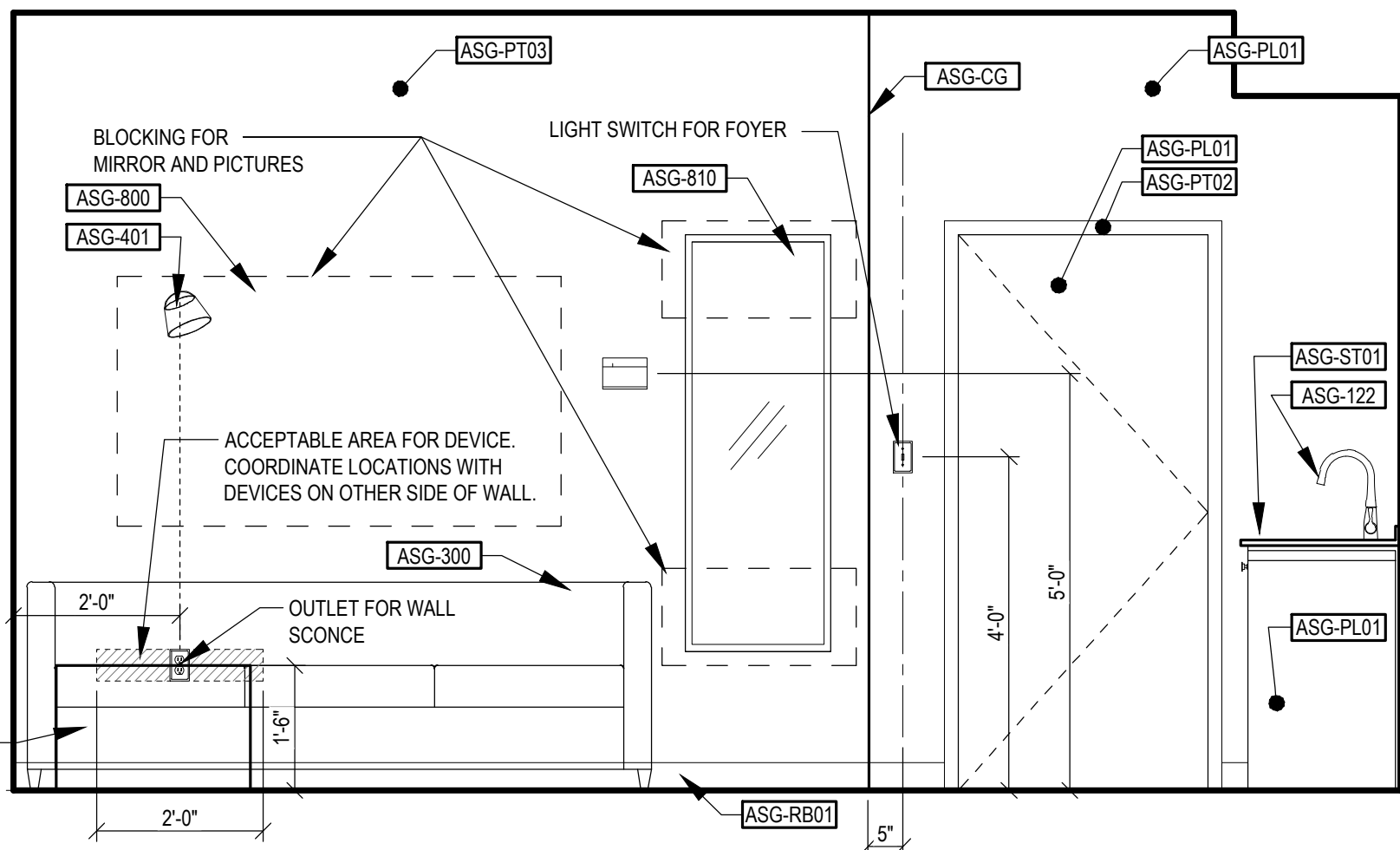
Page 53 of 2





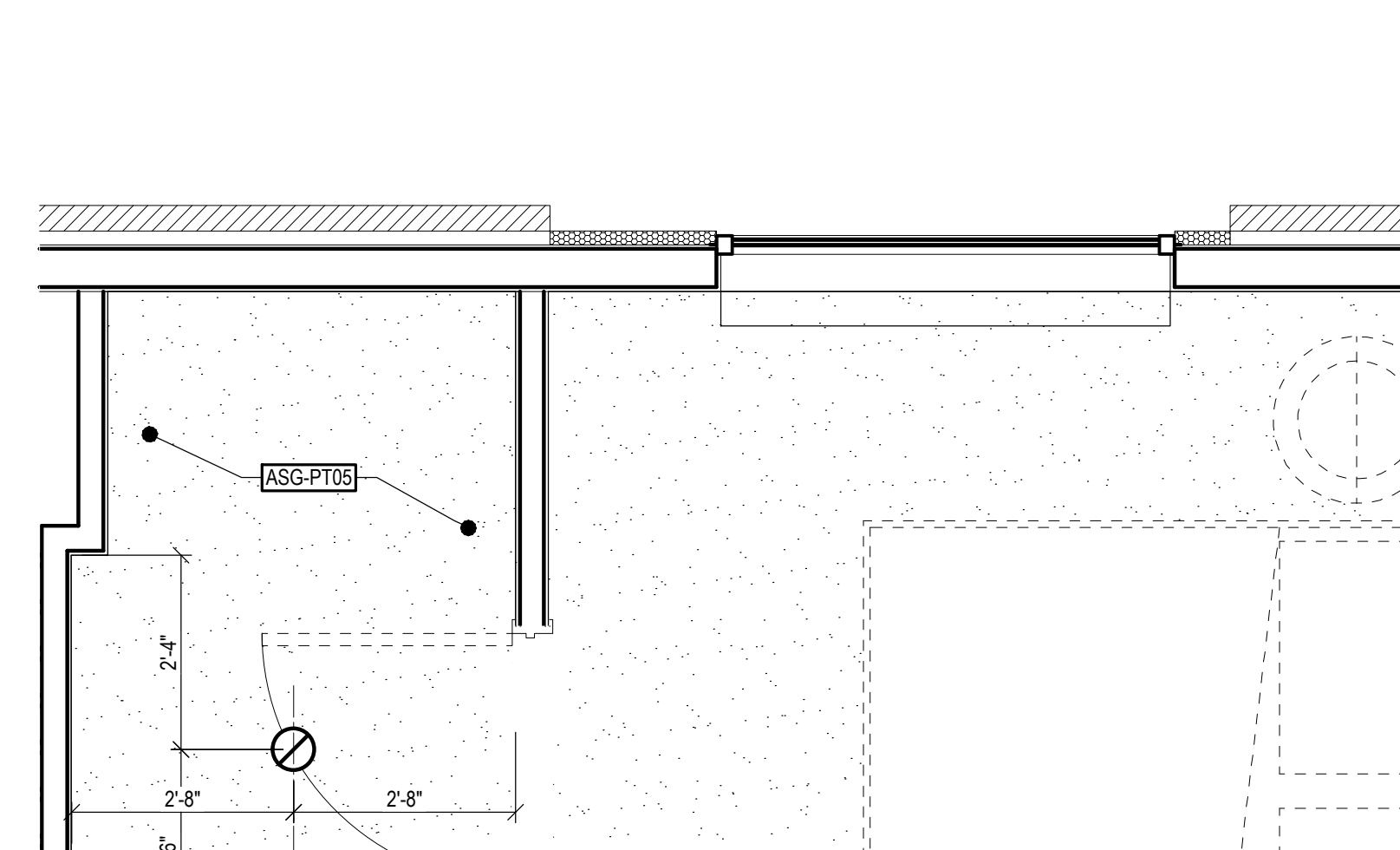
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SCALE: 1/2" = 1'-0"



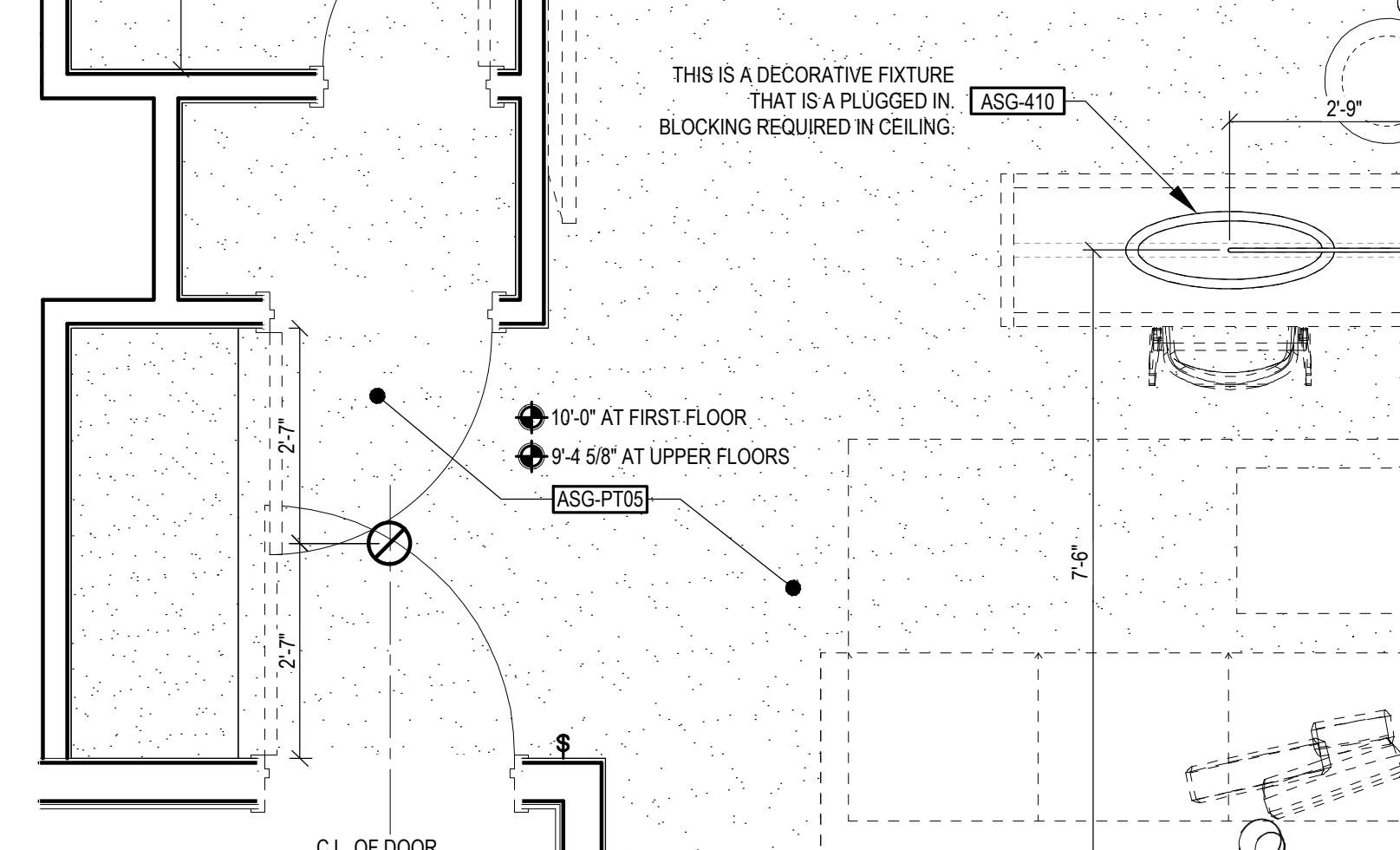
2 INTERIOR ELEVATION

SCALE: 1/2" = 1'-0"



3 INTERIOR ELEVATION

SCALE: 1/2" = 1'-0"



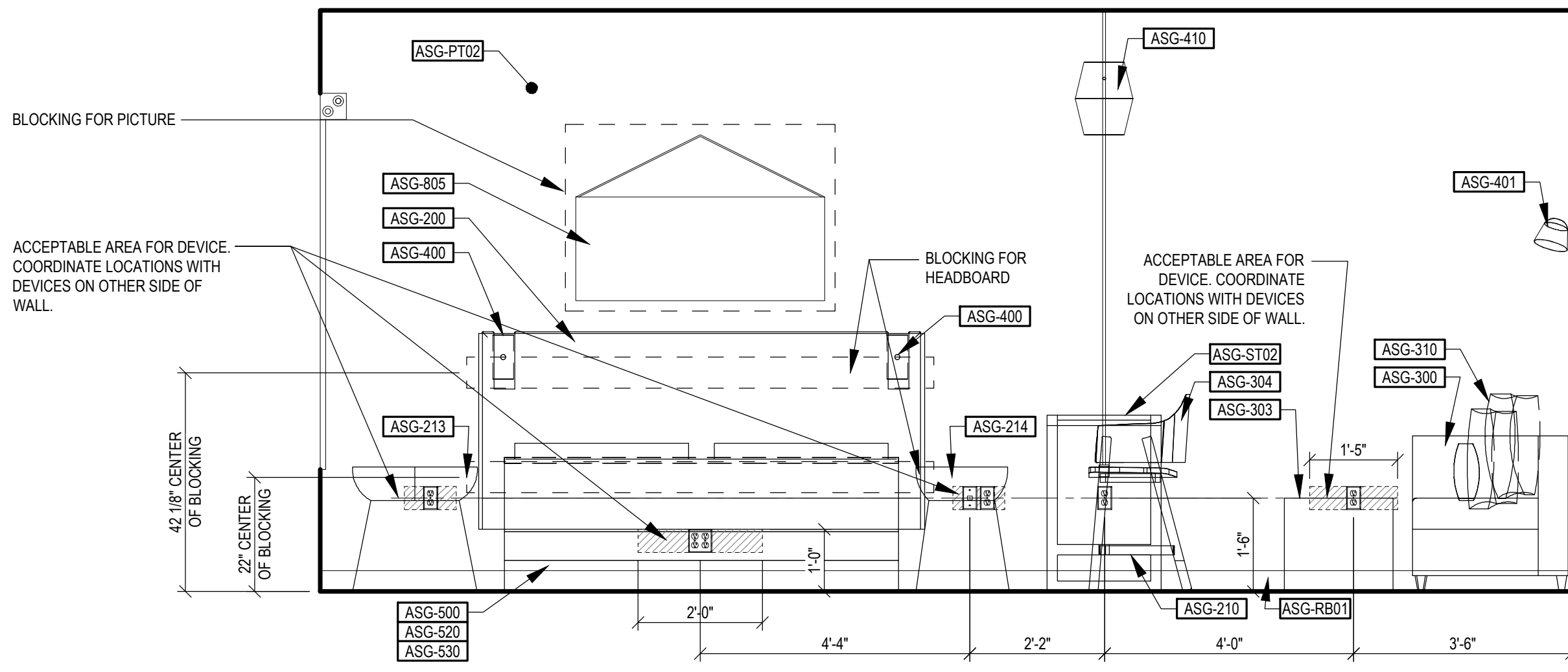
4 INTERIOR ELEVATION

SCALE: 1/2" = 1'-0"



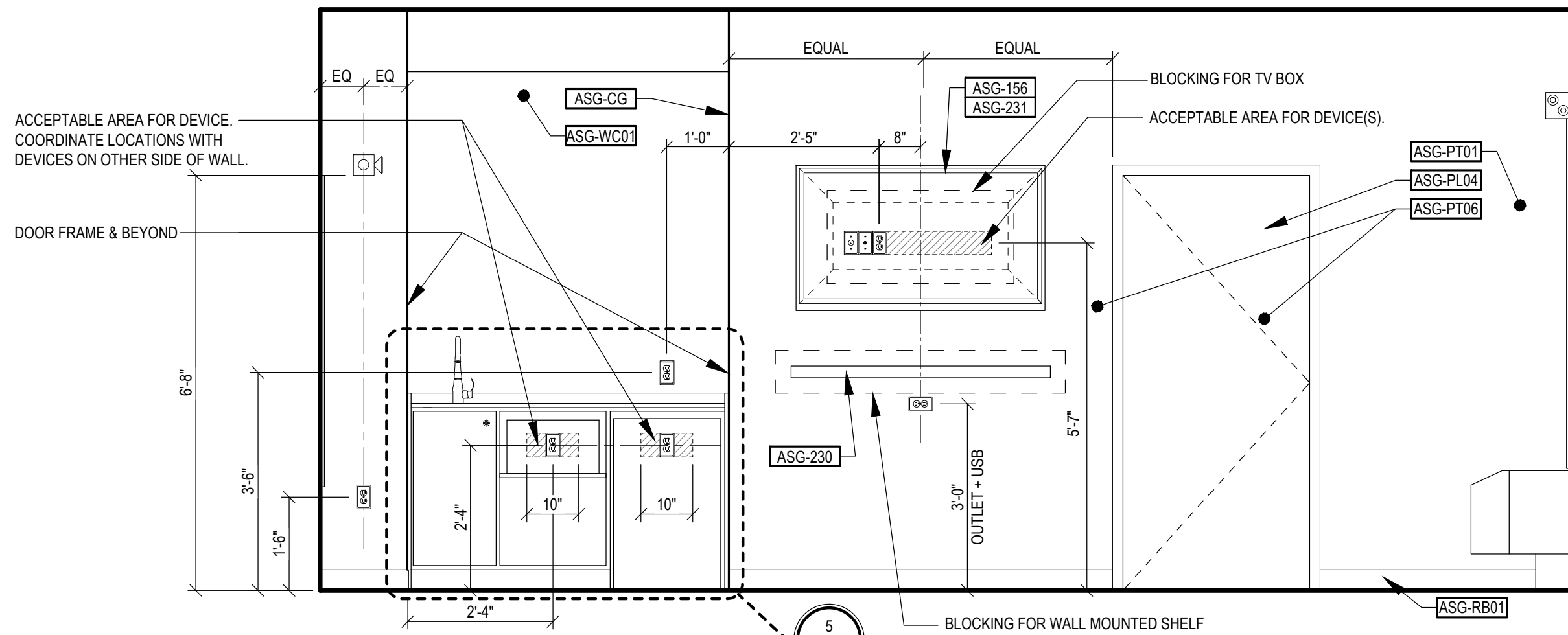
REFLECTED CEILING PLAN

SCALE: 1/2" = 1'-0"



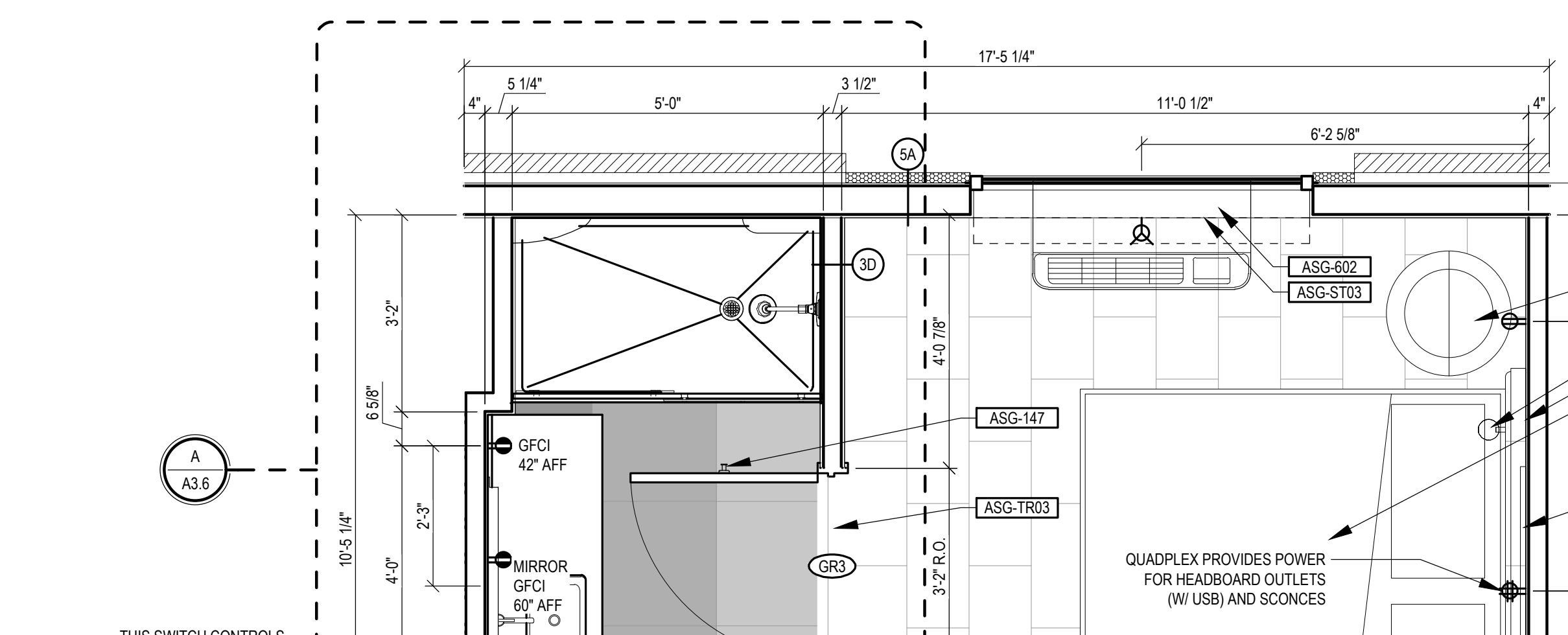
1 ARCHITECTURAL PLAN

SCALE: 1/2" = 1'-0"



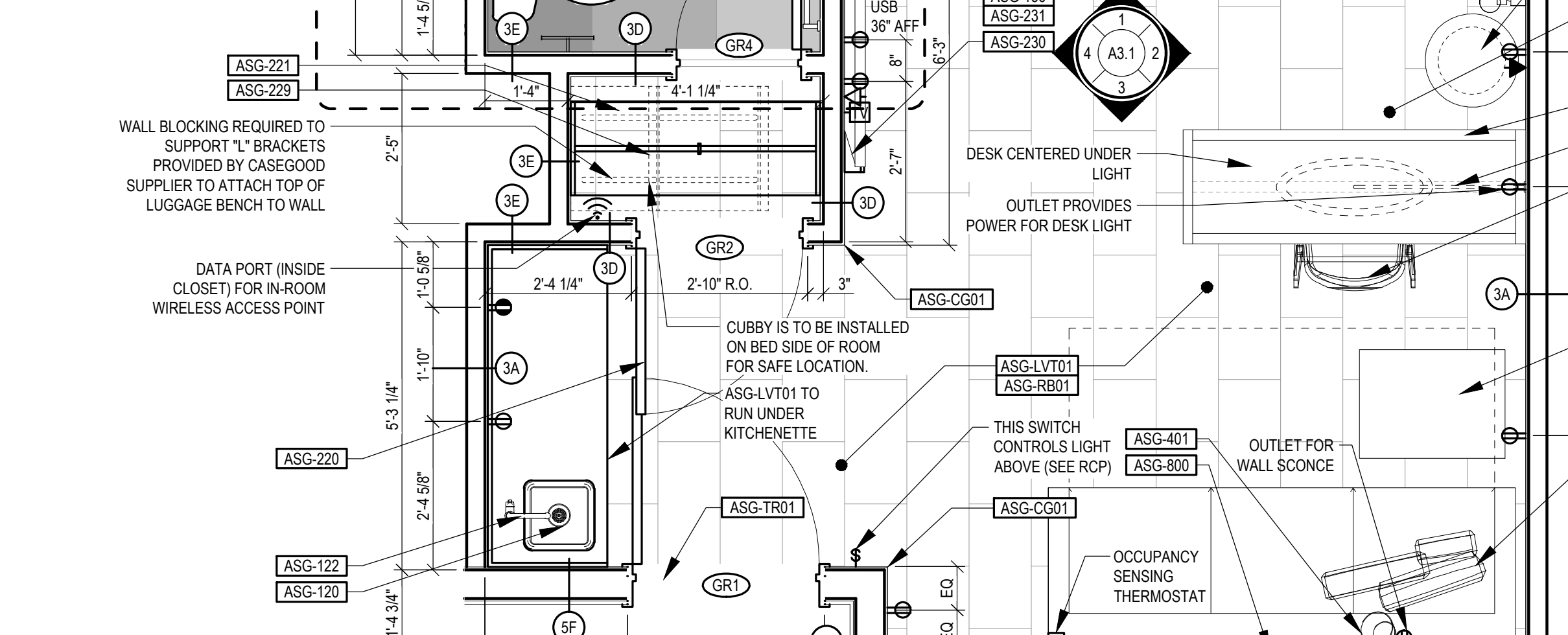
2 ARCHITECTURAL PLAN

SCALE: 1/2" = 1'-0"



3 ARCHITECTURAL PLAN

SCALE: 1/2" = 1'-0"



4 ARCHITECTURAL PLAN

SCALE: 1/2" = 1'-0"



5 ARCHITECTURAL PLAN

SCALE: 1/2" = 1'-0"

- RCP GENERAL NOTES**
1. SEE ELECTRICAL DRAWINGS FOR FIXTURE SCHEDULE, UNLESS NOTED OTHERWISE.
 2. PAINTED GYPSUM BOARD CEILING WHERE INDICATED ON PLAN.
 3. SWITCHES INSTALLED AT 4'-0" AFF TO CENTER OF SWITCH UNLESS NOTED OTHERWISE.
 4. RCP DRAWING REPRESENTS LIGHT FIXTURE PLACEMENT ONLY.
 5. G.C. SHALL FIELD VERIFY ALL FIXTURE LOCATIONS. ANY CONFLICT WITHIN FIELD CONDITIONS, DRAWINGS AND/OR TRADES APPLICATION SHALL BE REPORTED TO ARCHITECT IMMEDIATELY UPON DISCOVERY FOR CLARIFICATION PRIOR TO PROCEEDING WITH ASSOCIATED WORK.
 6. G.C. WILL ENSURE THAT LENSES IN LIGHTING FIXTURES ARE CLEAN AND FREE OF DUST, DIRT, AND SMUDGES. PLASTIC AND LABELS SHALL BE REMOVED FROM ALL LIGHT FIXTURES UPON COMPLETION.
 7. CEILING HEIGHTS GIVEN FROM LEVEL LINE OF FLOOR BELOW.

- FF&E GENERAL NOTES**
1. PROVIDE AND COORDINATE FINAL LOCATION OF IN-WALL BLOCKING FOR ALL CASEGOODS AND MILLWORK WITH FABRICATOR AND GENERAL CONTRACTOR PRIOR TO INSTALLATION. PROVIDE BLOCKING FOR ALL PLUMBING ACCESSORIES (TOWEL BARS, GRAB BARS, ETC.).
 2. INSTALL ALL FINISH MATERIALS ACCORDING TO MANUFACTURER'S INSTRUCTIONS.
 3. ONLY ONE DYE LOT OF EACH STYLE AND COLOR SPECIFIED IN THE FINISH SCHEDULE SHALL BE USED.
 4. REMOVE FINISH MATERIALS FROM PACKAGING AND ALLOW TO ACCLIMATE TO AREA OF INSTALLATION ACCORDING TO MANUFACTURER'S INSTRUCTIONS.
 5. ALL PAINT SURFACES SHALL RECEIVE A FINISH APPLICATION SHALL BE COMPLETELY SMOOTH AND SUITABLE FOR SCHEDULED FINISH.
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 8. WHERE FLOORING MATERIAL OF DIFFERENT THICKNESS MEET, LEVEL AS REQUIRED TO MEET ADA GUIDELINES AND ENSURE SMOOTH TRANSITION.
 9. REFER TO FF&E SPECIFICATIONS BOOK FOR CODED ITEMS.
 10. G.C. TO COORDINATE OUTLET AND SWITCH LOCATIONS WITH CASEGOODS PROVIDED.
 11. REFER TO PROTOTYPE ID SHEETS FOR FF&E ITEM TAGS.

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 3. ACCESSIBLE AND/OR HEARING IMPAIRED GUESTROOMS SHALL BE EQUIPPED WITH VISUAL FIRE ALARM DEVICES AS WELL AS AUDIBLE DEVICES.
 4. ALL TYPES OF OUTLET RECEPTACLES MUST NOT BE SURFACE MOUNTED.
 5. THERMOSTATS ARE TO BE INSTALLED AT 4'-0" AFF TO CENTER OF UNIT U.N.O.
 6. ELECTRICAL REQUIREMENTS AT GR KING HEADBOARD: POWER FOR (2) SCONCES AND (2) JACK PACKS.
 7. ELECTRICAL REQUIREMENTS AT GR QUEEN HEADBOARD: POWER FOR (2) SCONCES AND (2) JACK PACKS.
 8. ELECTRICAL REQUIREMENTS AT GR KING AND QUEEN DESK: POWER (1) LAMP AND CONVENIENCE POWER FOR THE GUESTS.
 9. ELECTRICAL REQUIREMENTS AT KITCHENETTE: POWER FOR (1) MICROWAVE OVEN, (1) REFRIGERATOR, GFI OUTLET ABOVE COUNTER.
 10. ELECTRICAL REQUIREMENTS AT TELEVISION SHELF: POWER AND CAT6 CABLE FOR (1) TELEVISION AT 5'-7" AFF, CONVENIENCE OUTLET AT 3'-0" AFF.
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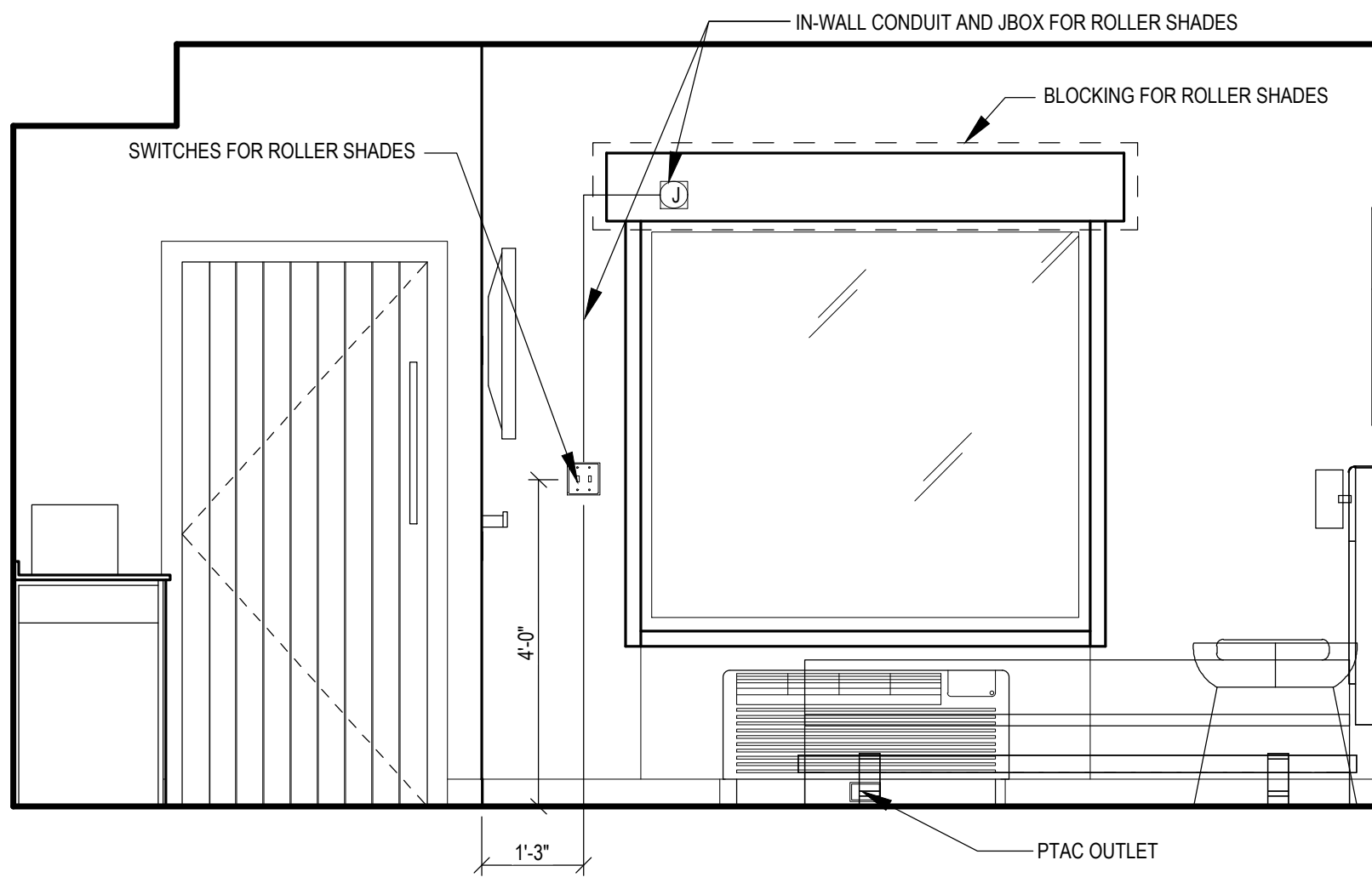
GUESTROOM PLANS / ELEVATIONS:
KING SUITE

ISSUE / REVISION DATE:

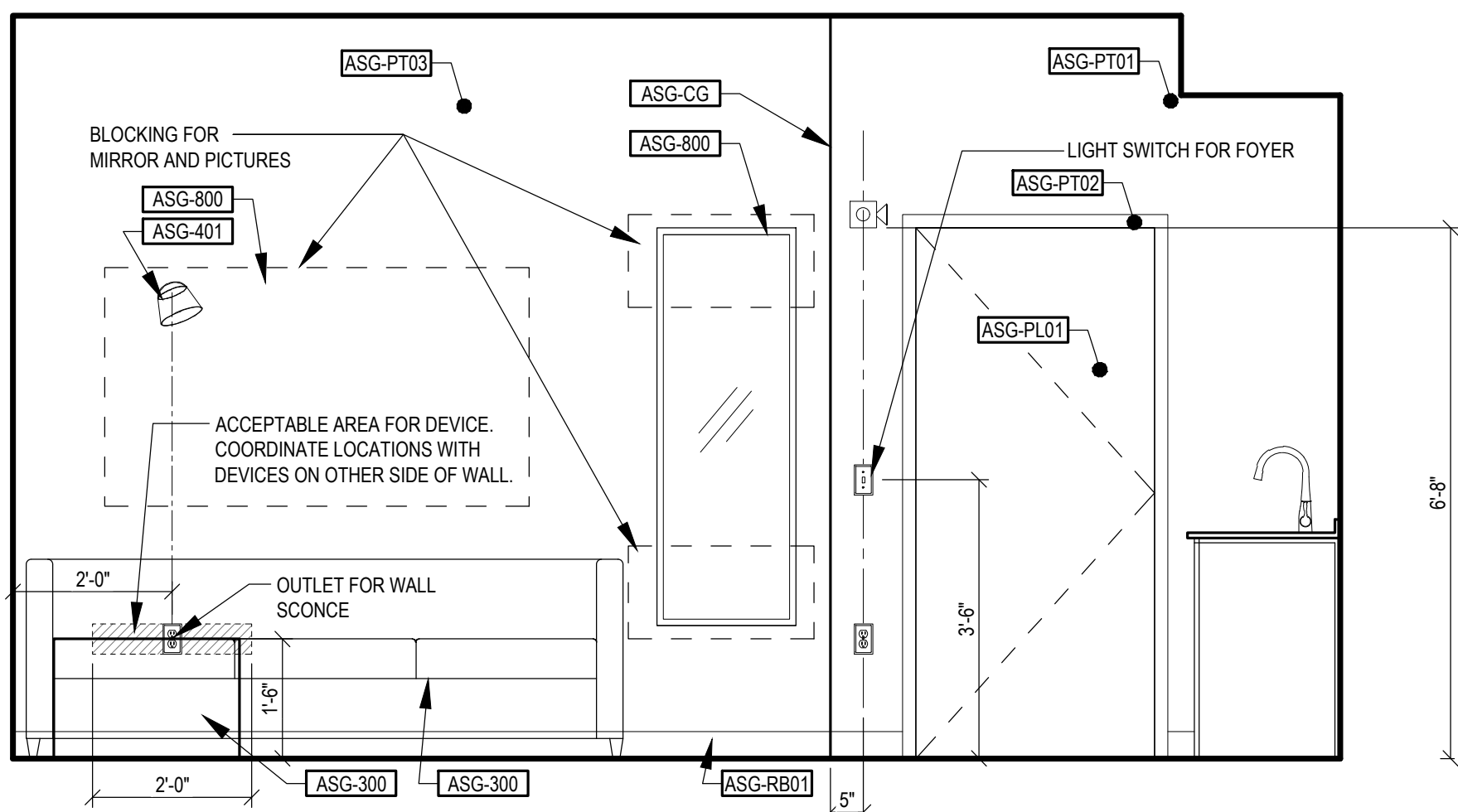
- 05/04/2022 OWNER REVIEW
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SMR Project No. **AWSFIN**

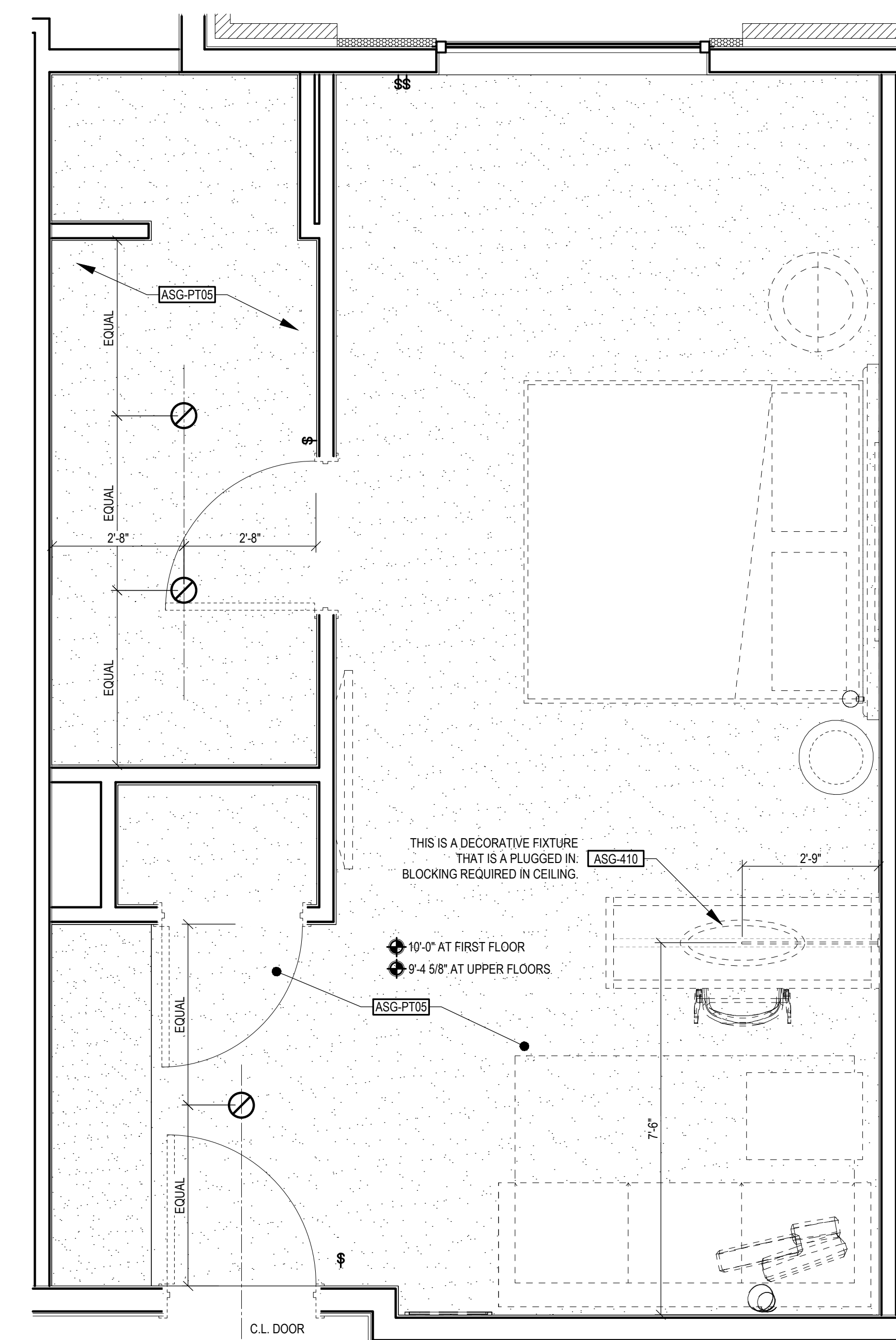
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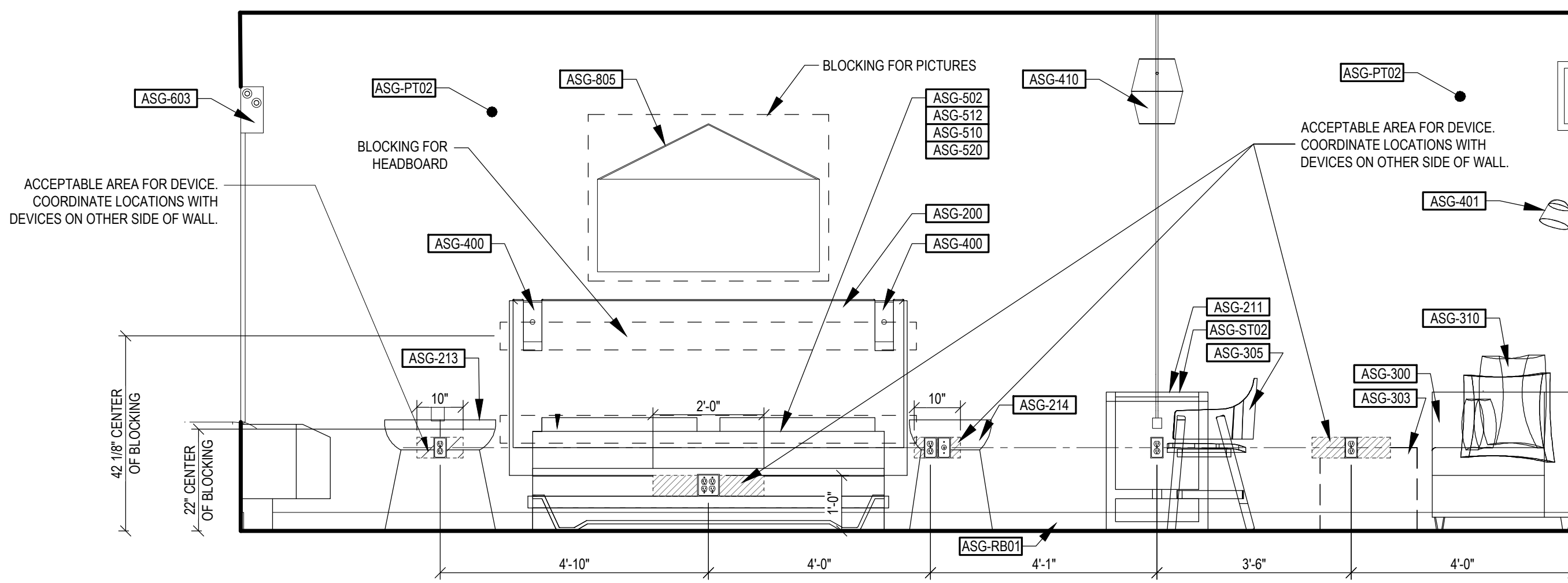
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SCALE: 1/2" = 1'-0"



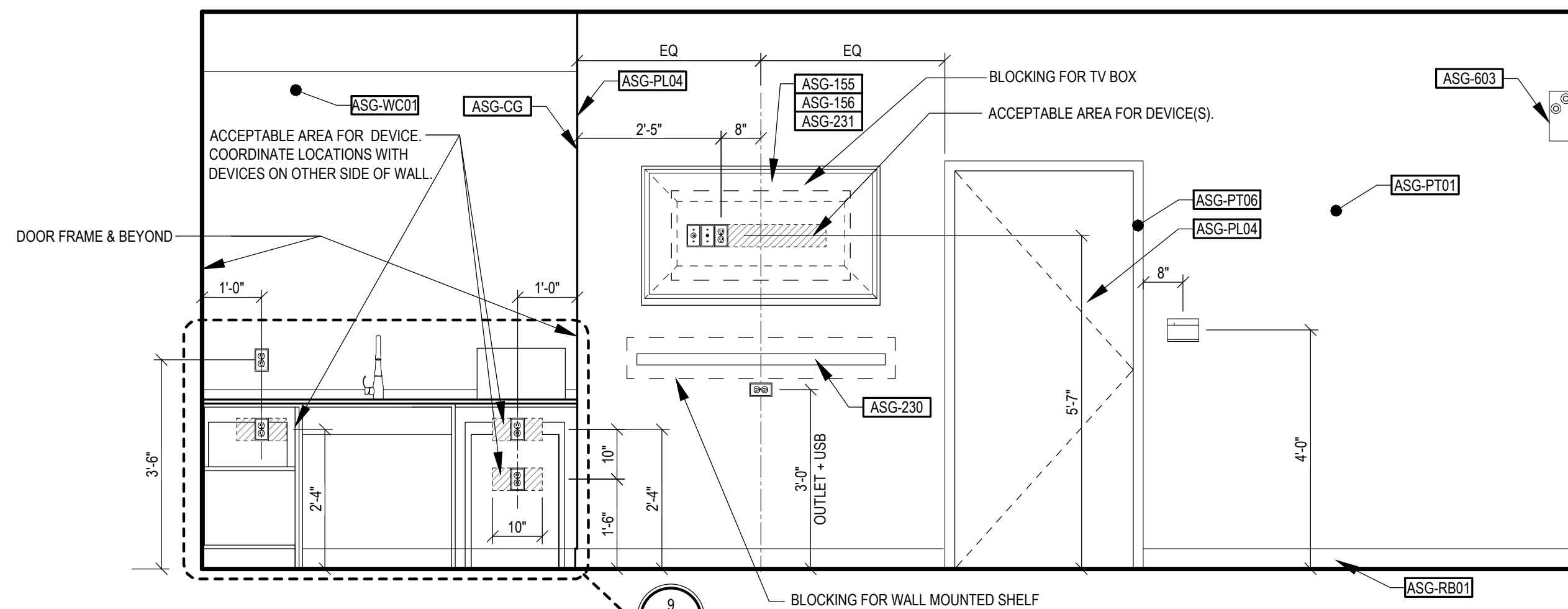
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A3.2
SCALE: 1/2" = 1'-0"



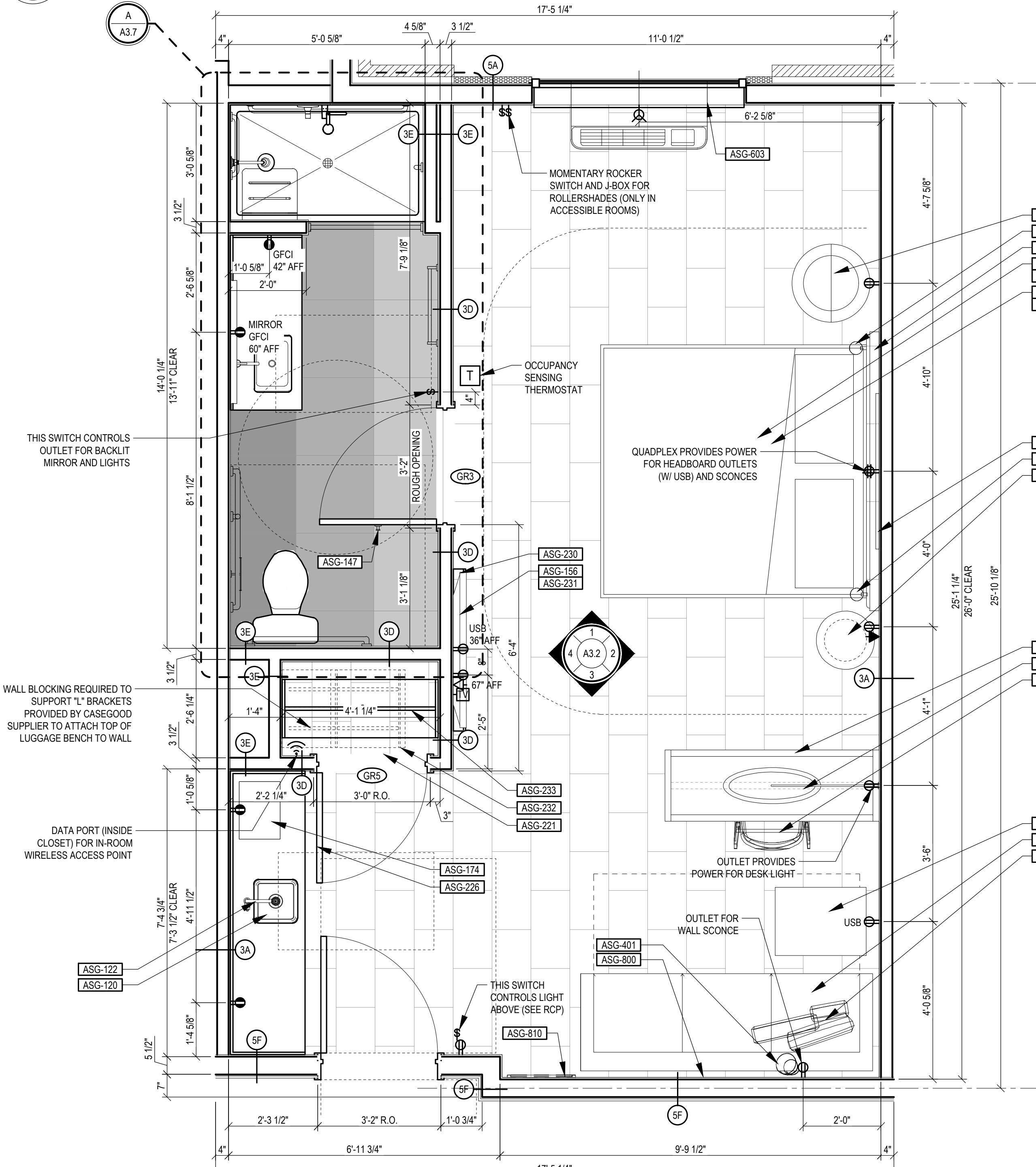
B
REFLECTED CEILING PLAN
SCALE: 1/2" = 1'-0"



2
A3.2
SCALE: 1/2" = 1'-0"



4
A3.2
SCALE: 1/2" = 1'-0"



A
ARCHITECTURAL PLAN
SCALE: 1/2" = 1'-0"

- RCP GENERAL NOTES
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 2. PAINTED GYPSUM BOARD CEILING WHERE INDICATED ON PLAN.
 3. SWITCHES INSTALLED AT 4'-0" AFF TO CENTER OF SWITCH UNLESS NOTED OTHERWISE.
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ERLEN DR. & MINDEN DR. FISHERS, INDIANA 46037

GUESTROOM PLANS / ELEVATIONS:
ACCESSIBLE KING SUITE

ISSUE / REVISION DATE:

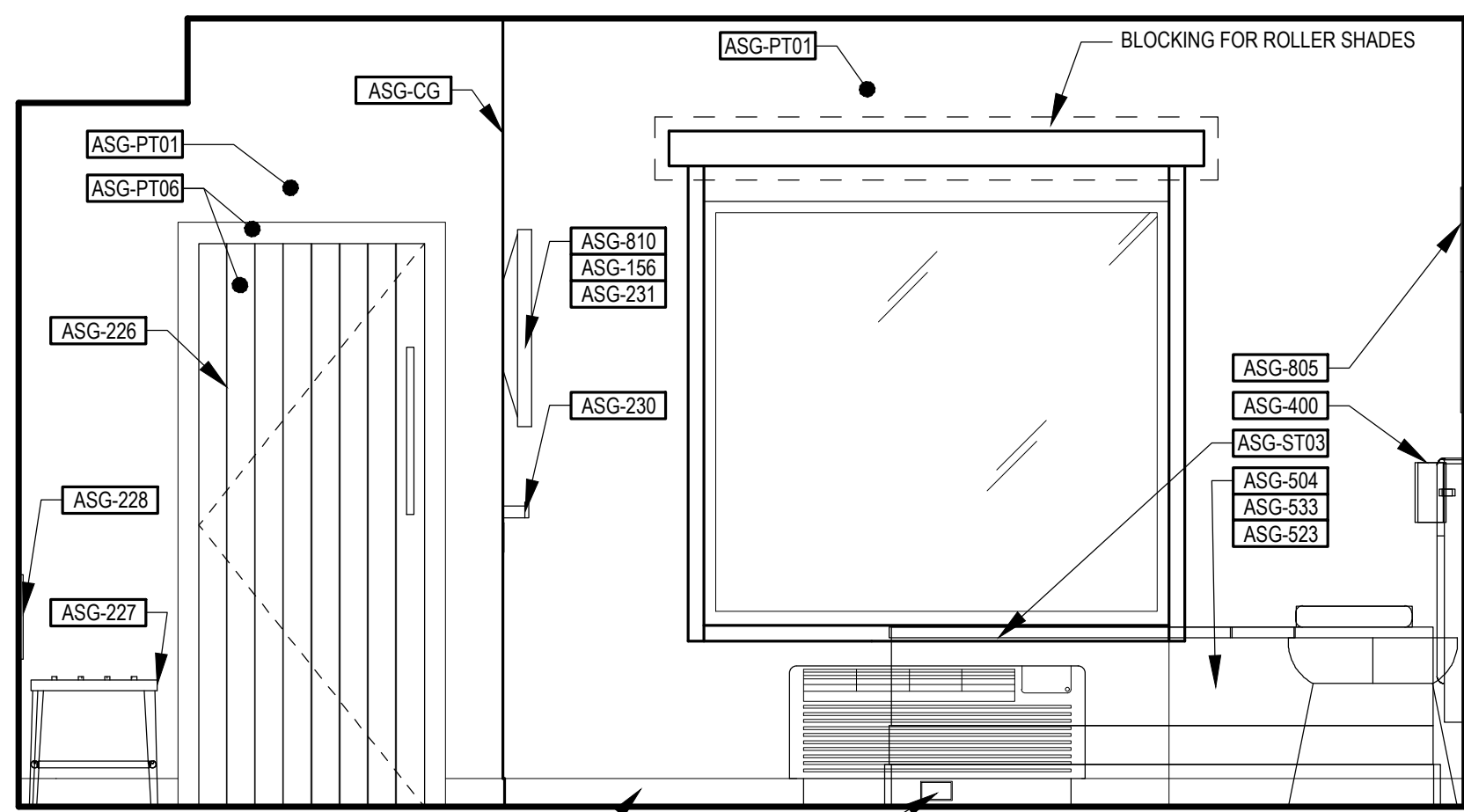
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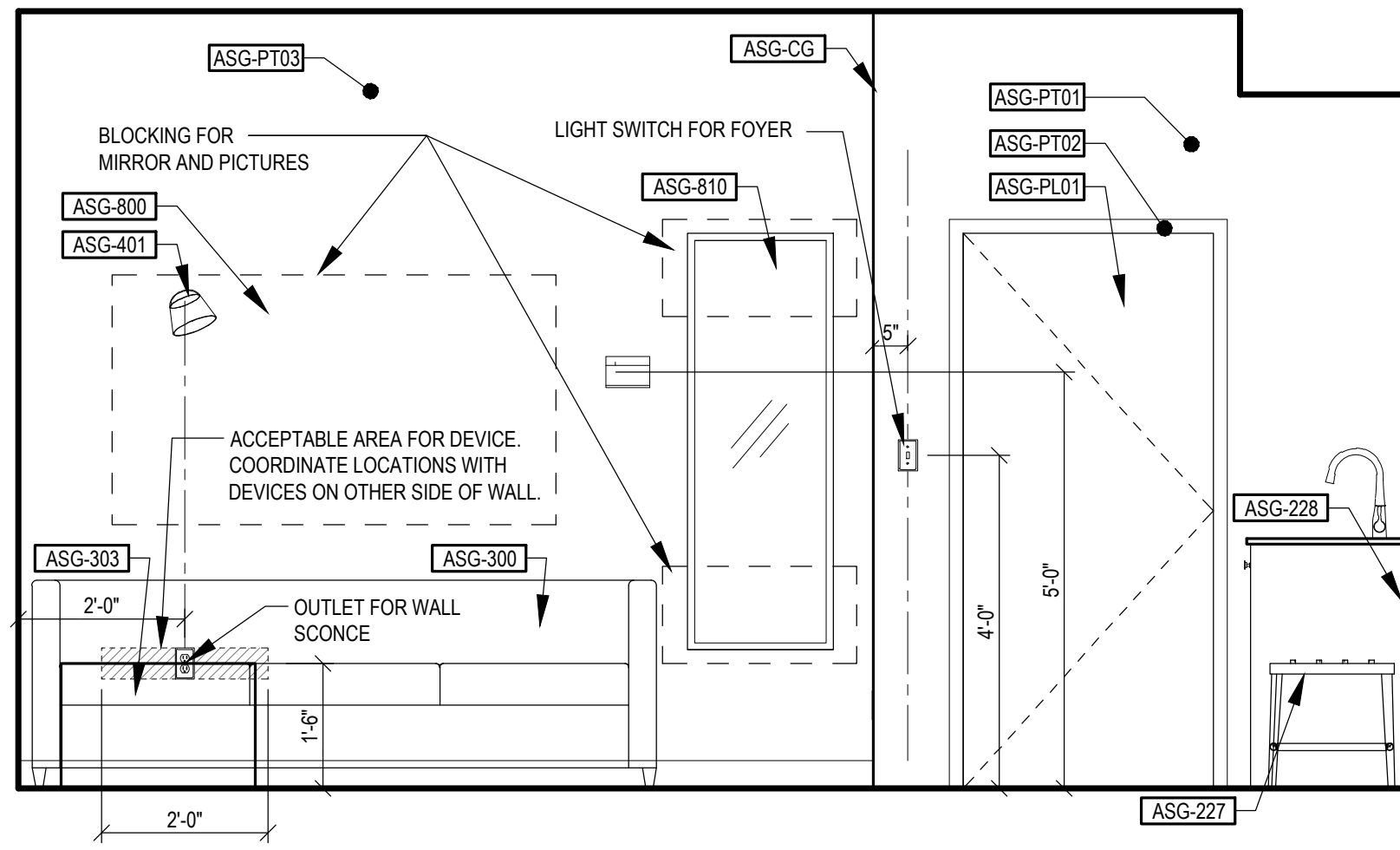
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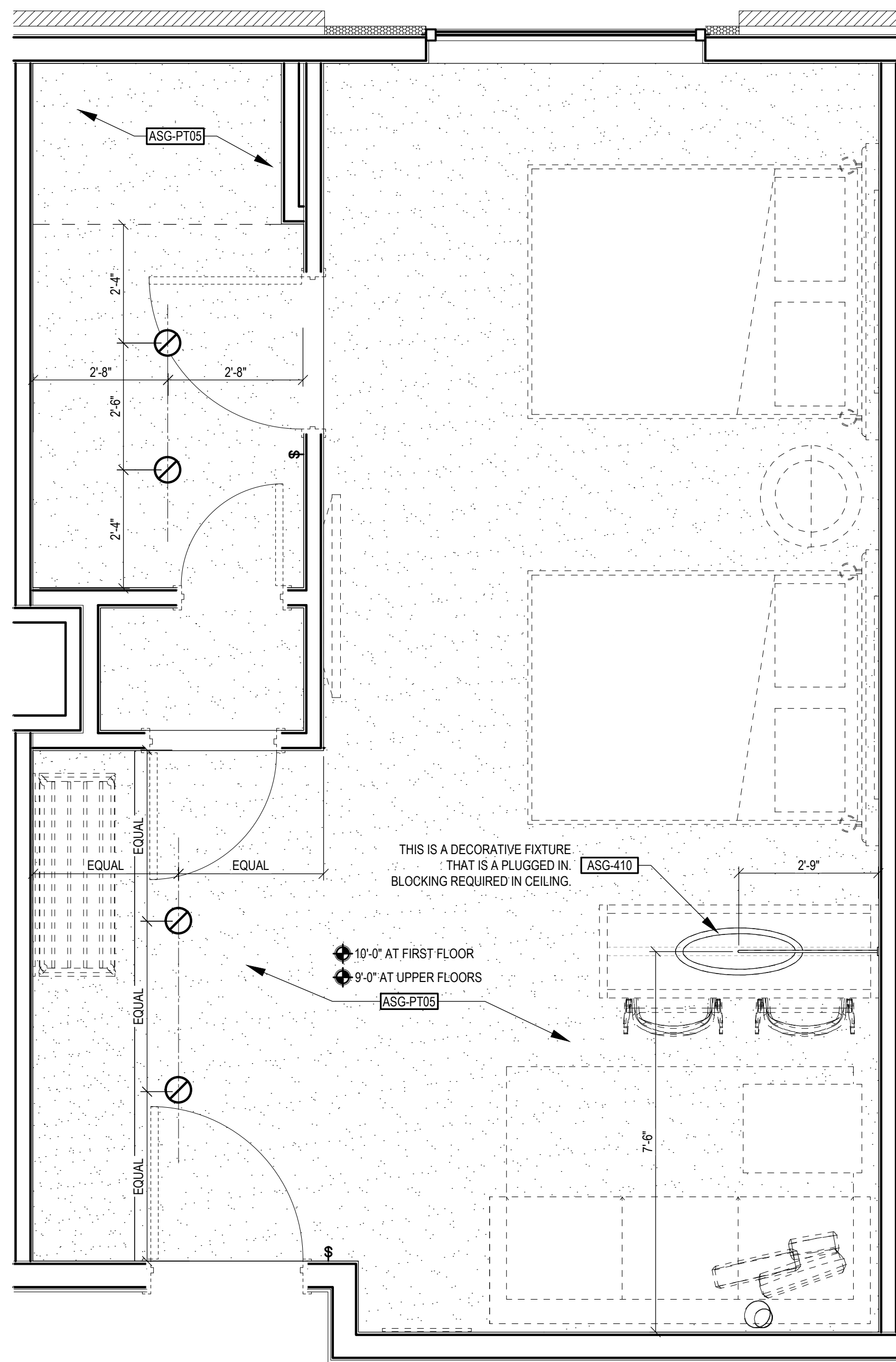
Page 55 of 292



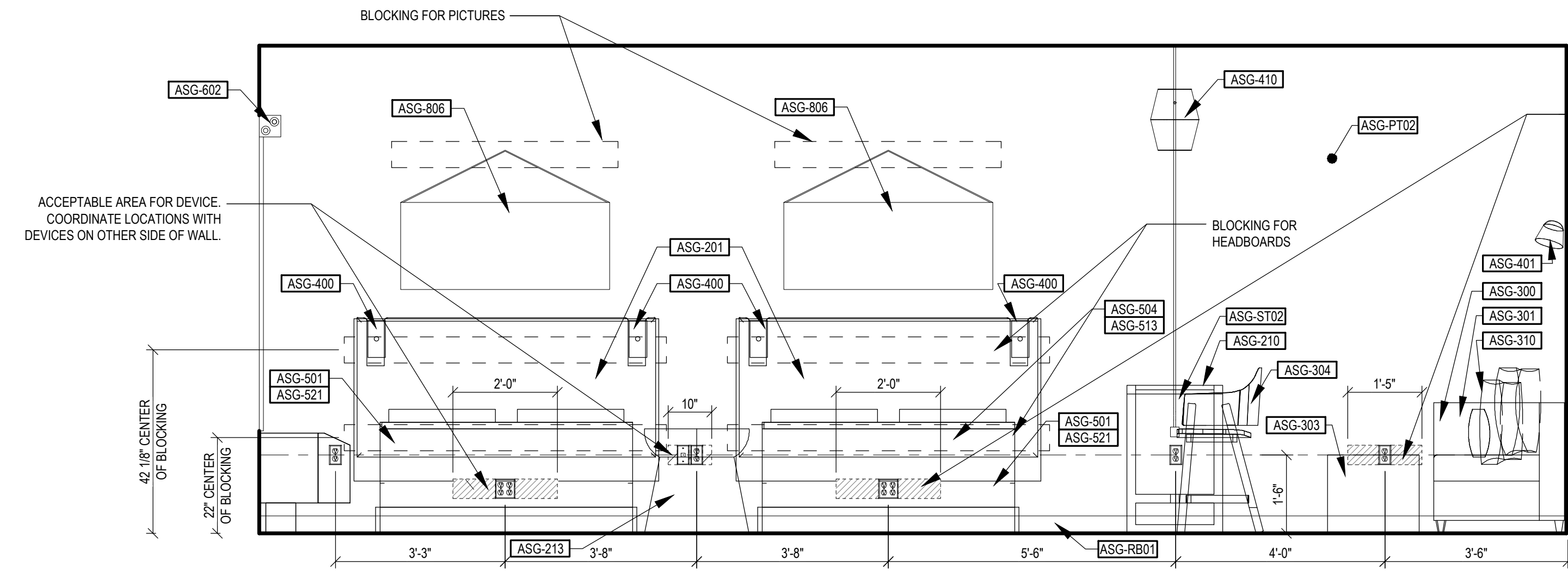
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SCALE: 1/2" = 1'-0"



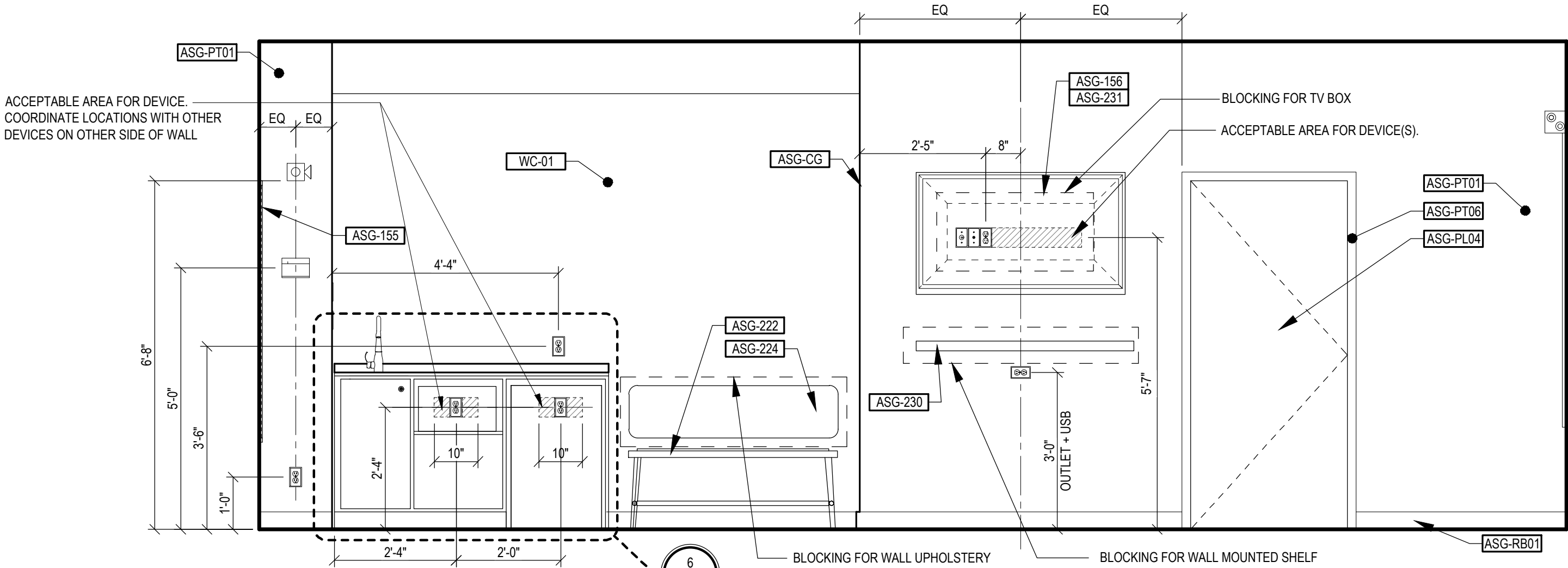
3 INTERIOR ELEVATION
SCALE: 1/2" = 1'-0"



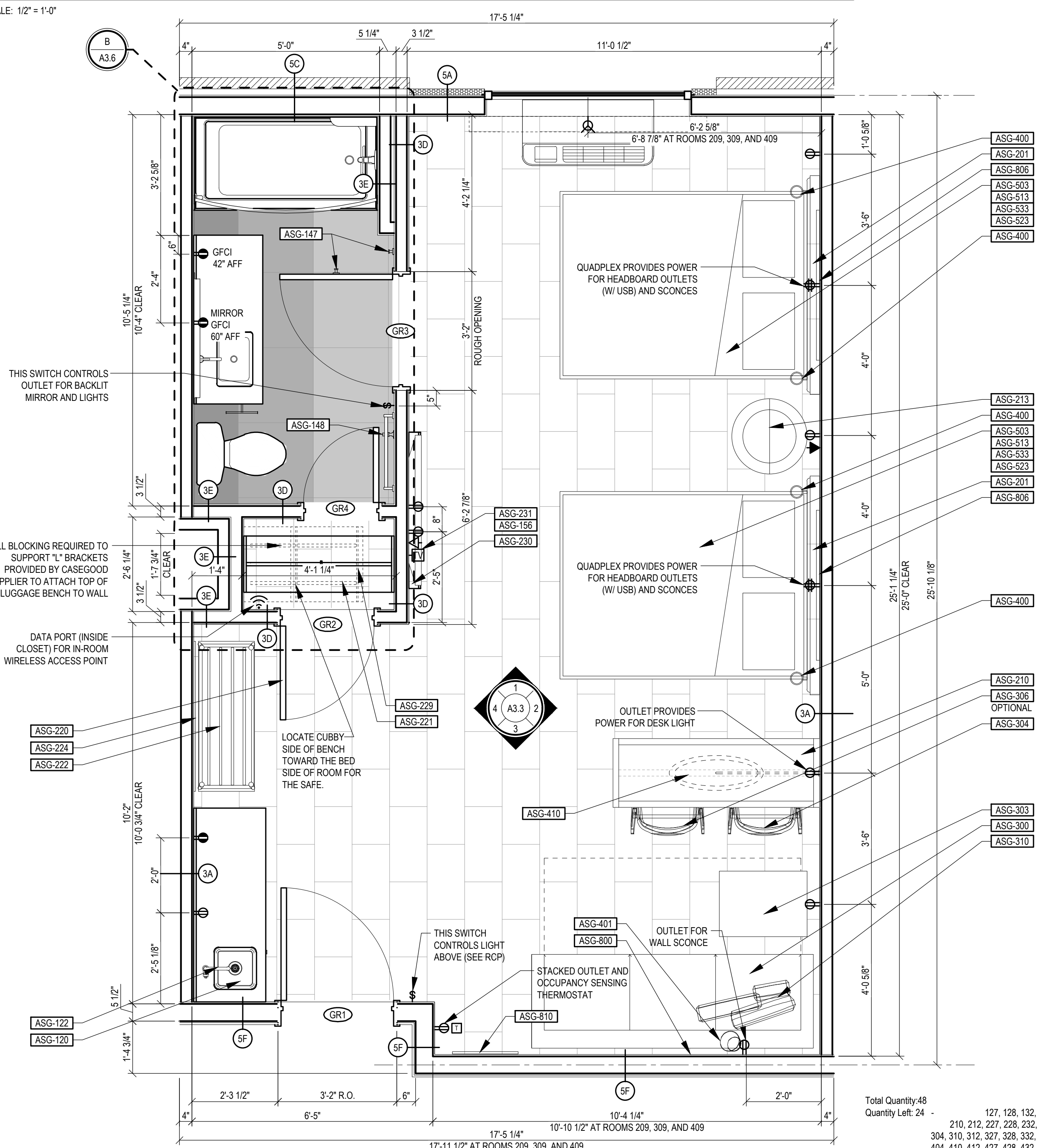
B REFLECTED CEILING PLAN
SCALE: 1/2" = 1'-0"



2 INTERIOR ELEVATION
SCALE: 1/2" = 1'-0"



4 INTERIOR ELEVATION
SCALE: 1/2" = 1'-0"



A ARCHITECTURAL PLAN
SCALE: 1/2" = 1'-0"

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 2. PAINTED GYPSUM BOARD CEILING WHERE INDICATED ON PLAN.
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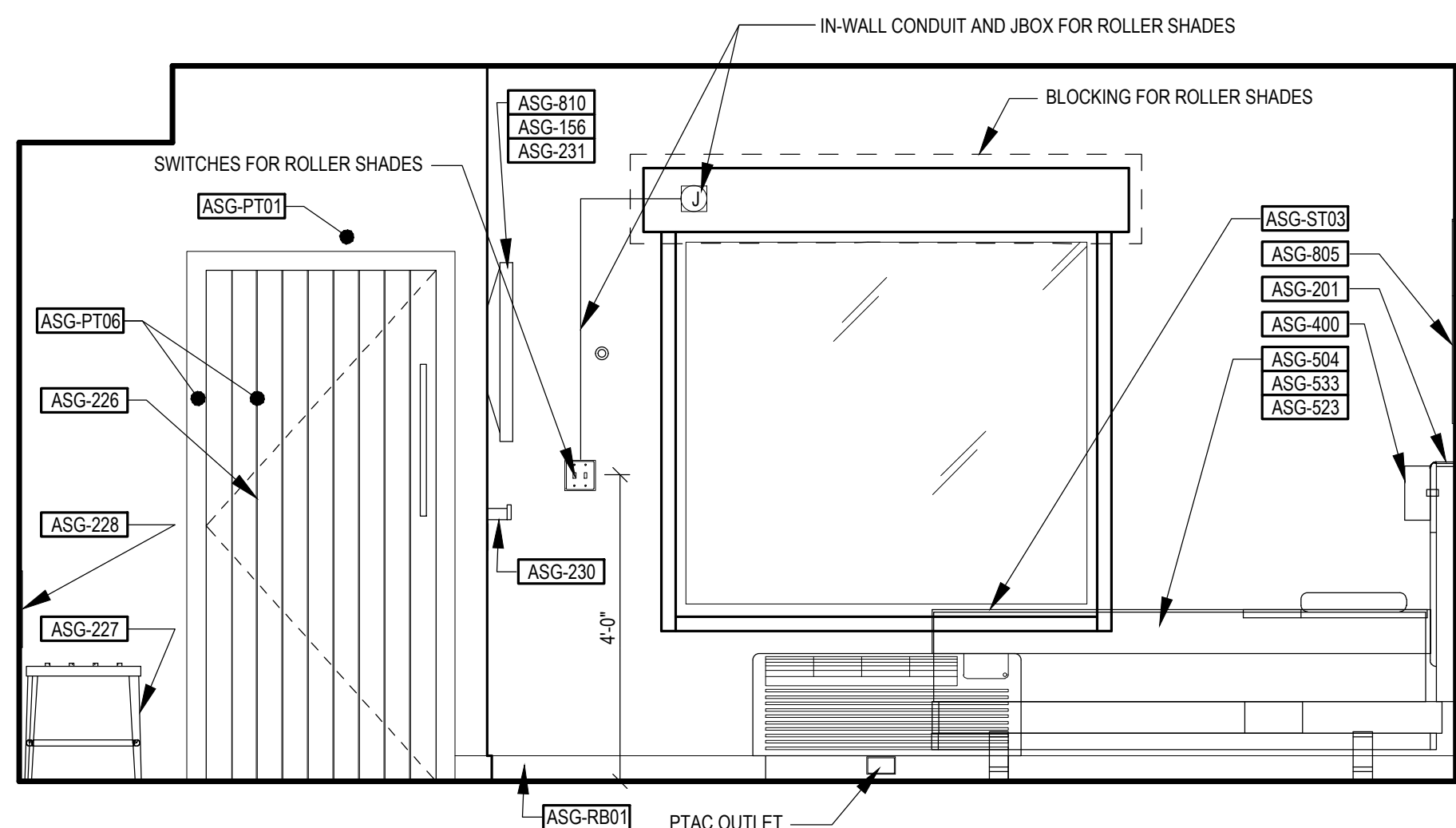
ATWELL SUITES
AN IHG HOTEL
ERLEN DR. & MINDEN DR. FISHERS, INDIANA 46037
GUESTROOM PLANS / ELEVATIONS:
QUEEN / QUEEN SUITE

ISSUE / REVISION DATE:

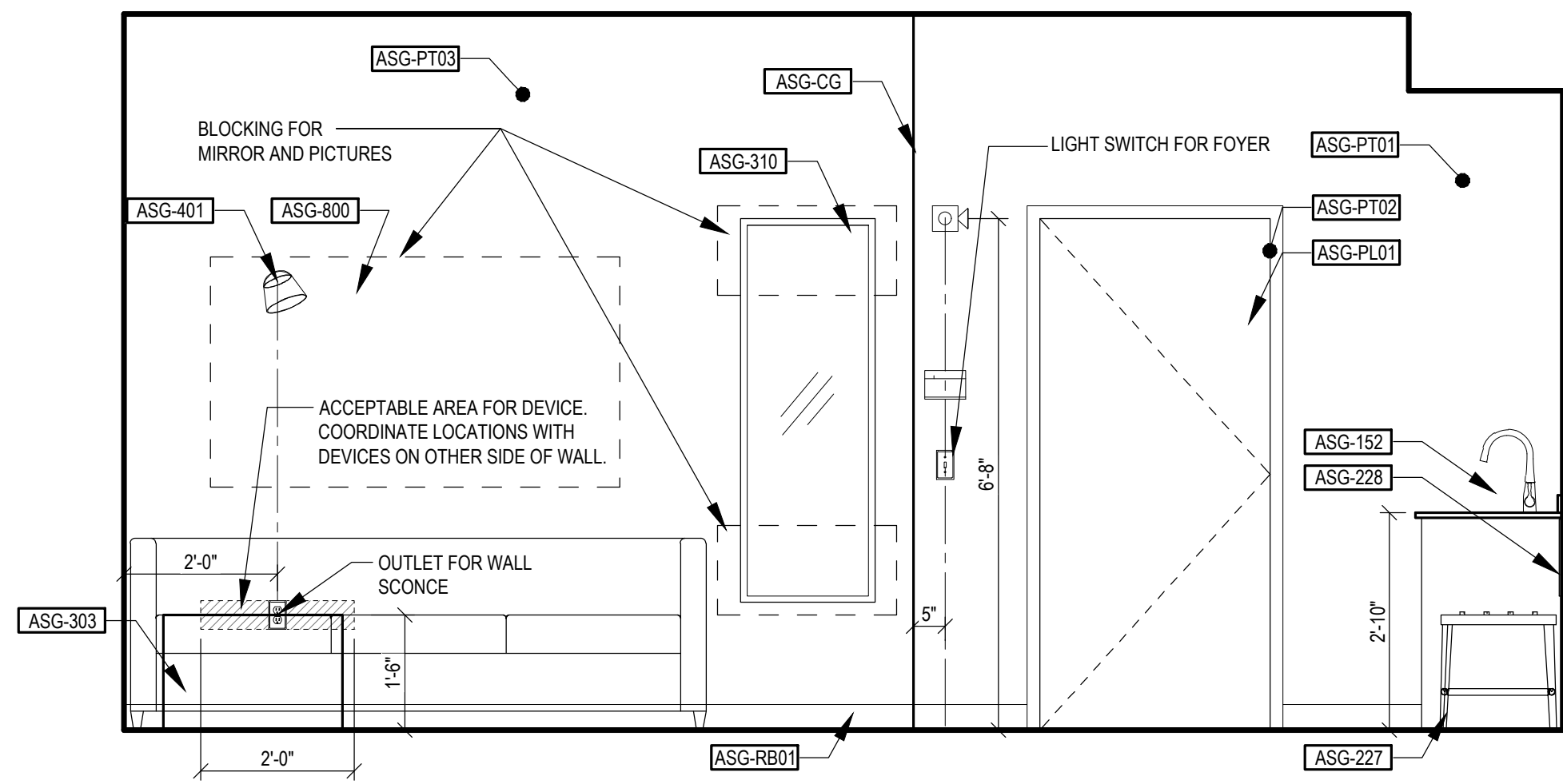
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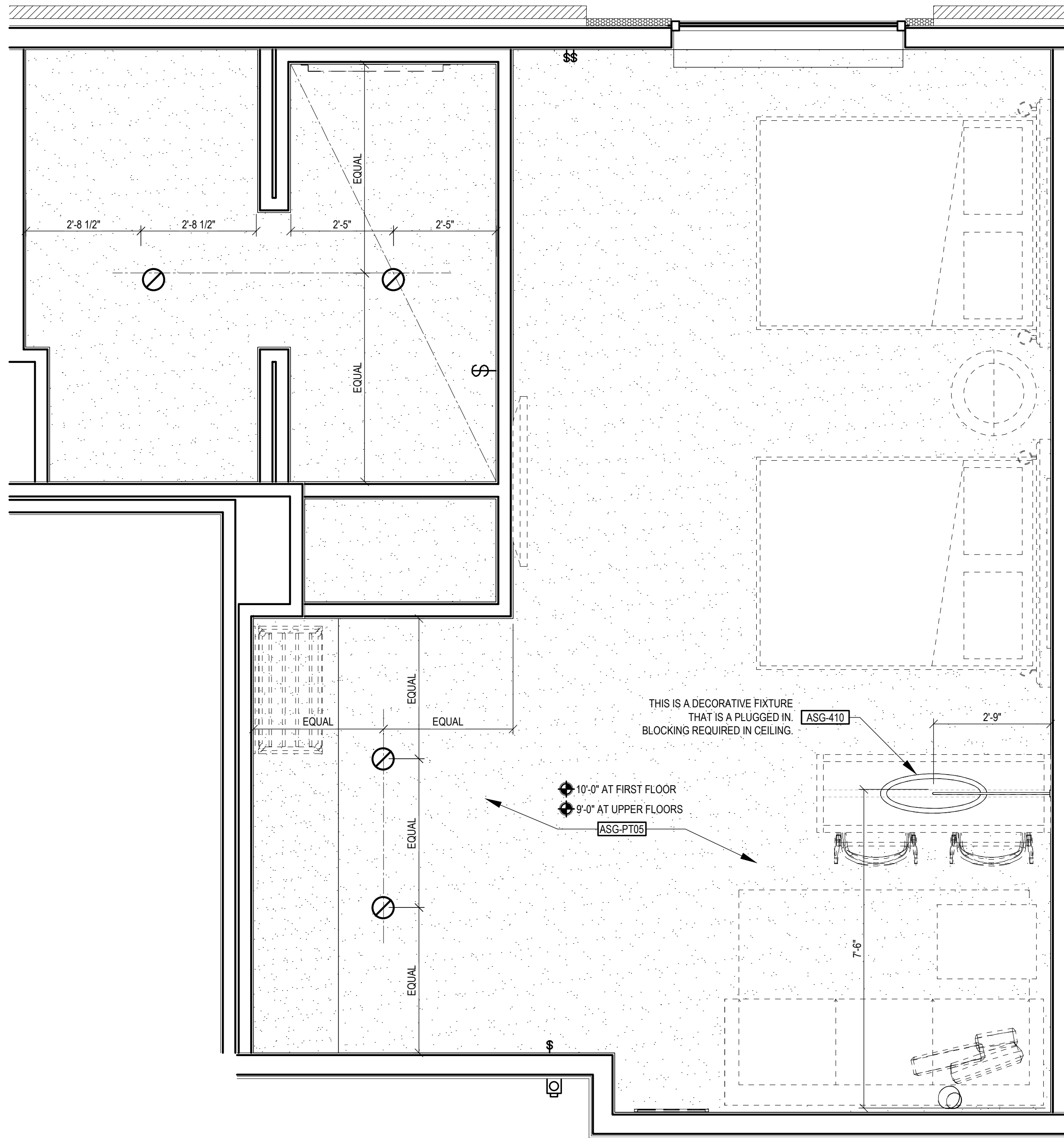
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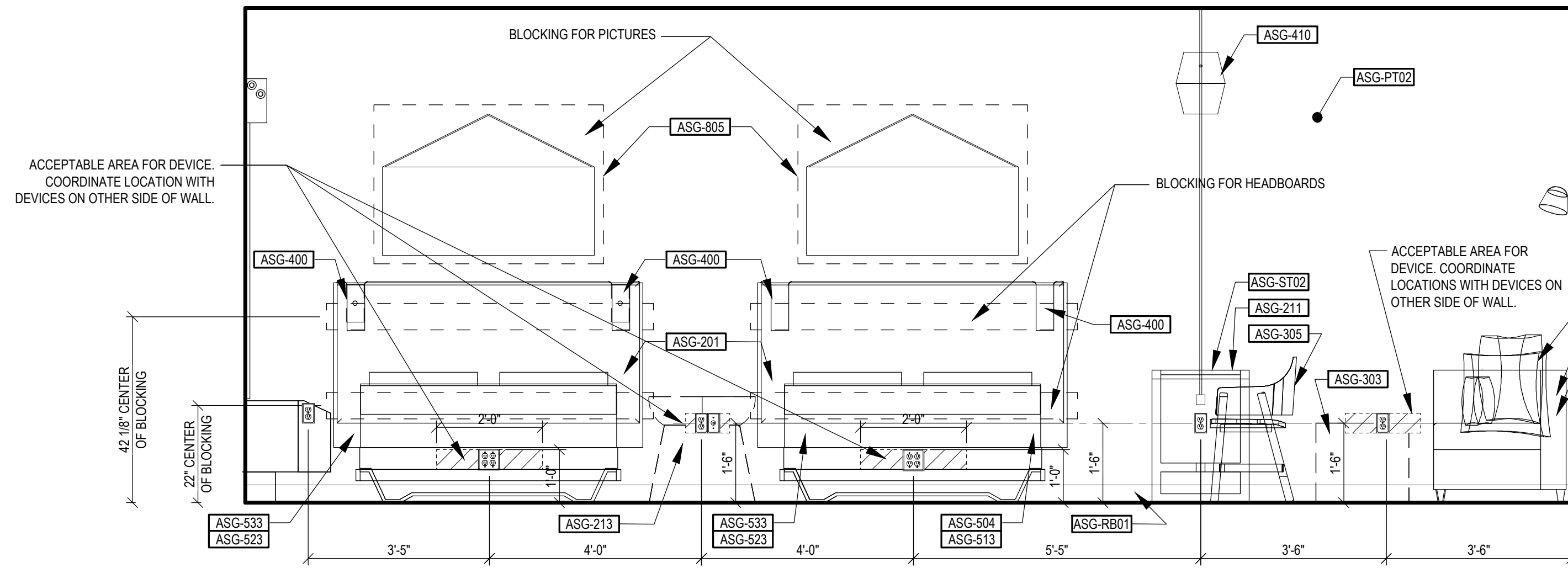
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SCALE: 1/2" = 1'-0"



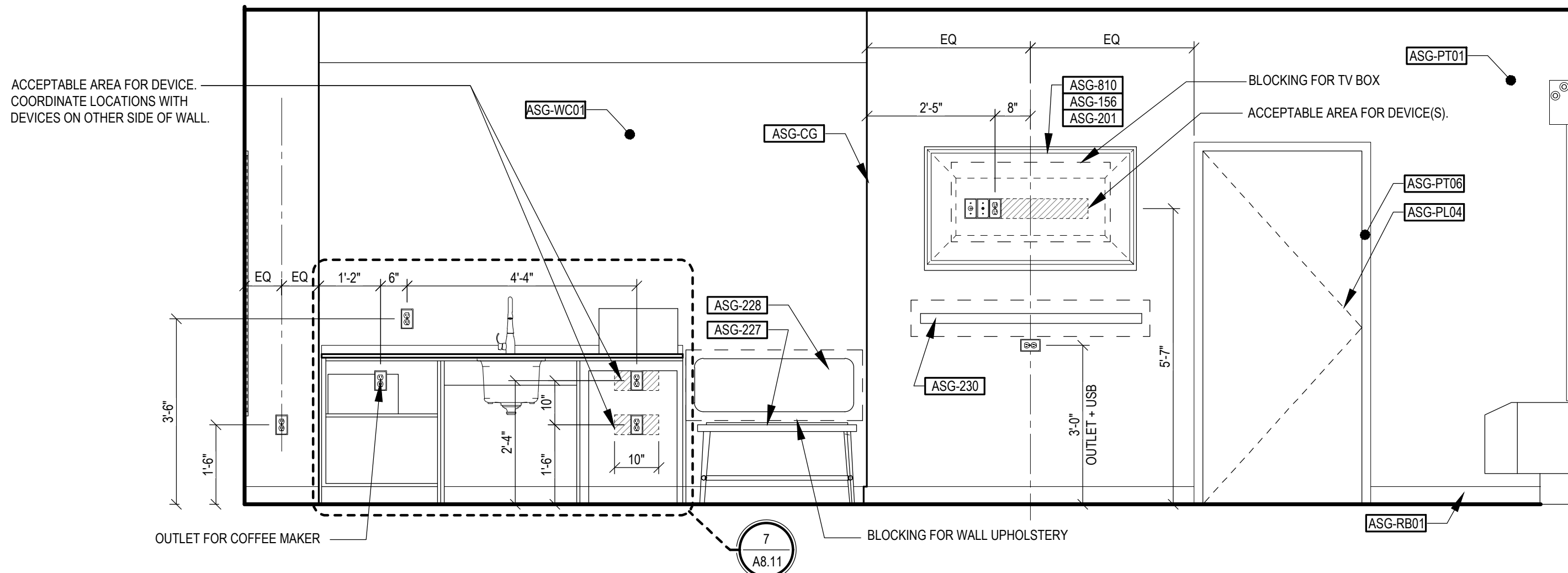
3 INTERIOR ELEVATION
SCALE: 1/2" = 1'-0"



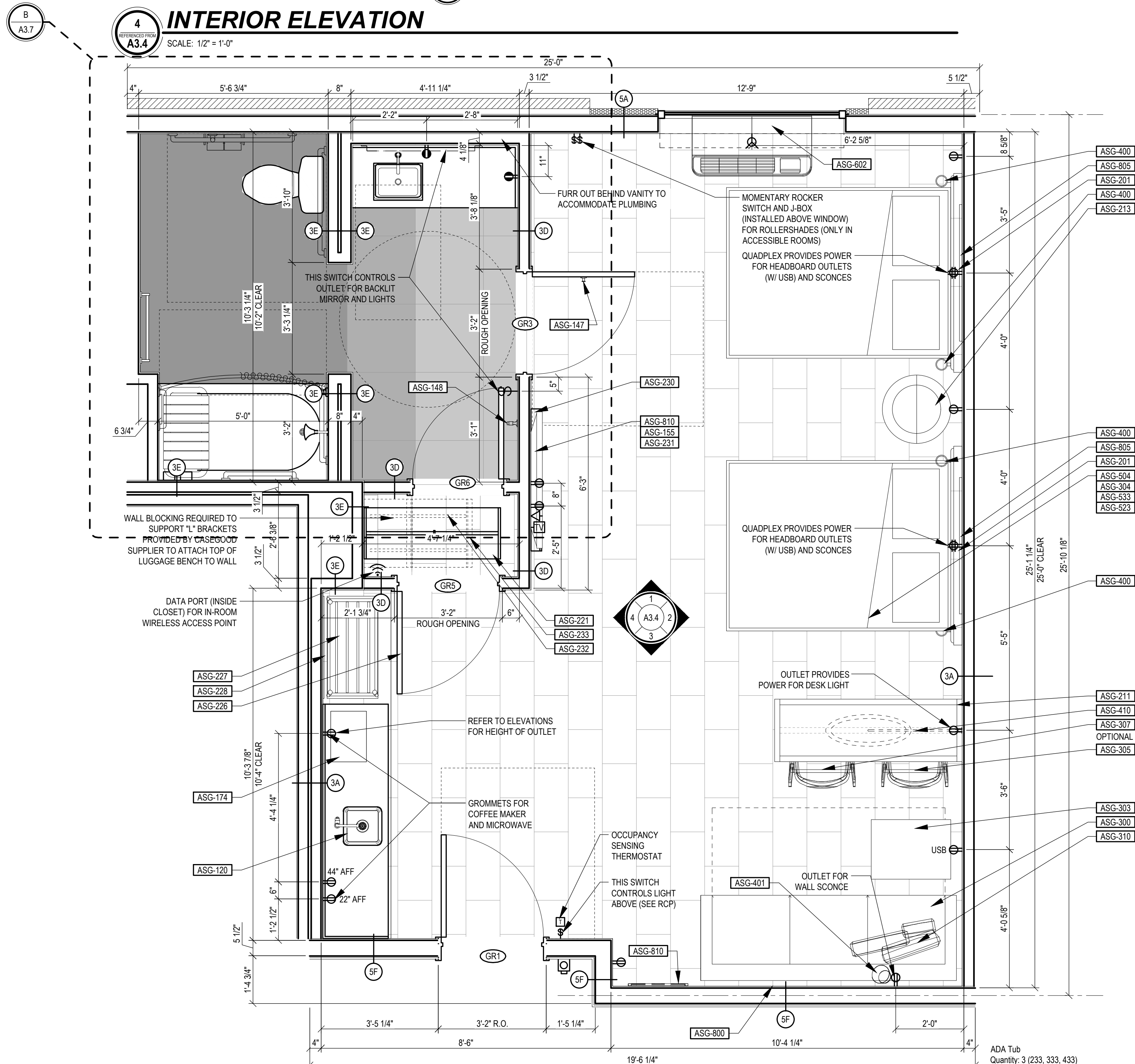
B REFLECTED CEILING PLAN
SCALE: 1/2" = 1'-0"



2 INTERIOR ELEVATION
SCALE: 1/2" = 1'-0"



4 INTERIOR ELEVATION
SCALE: 1/2" = 1'-0"



A ARCHITECTURAL PLAN
SCALE: 1/2" = 1'-0"

- RCP GENERAL NOTES**
1. SEE ELECTRICAL DRAWINGS FOR FIXTURE SCHEDULE, UNLESS NOTED OTHERWISE.
 2. PAINTED GYPSUM BOARD CEILING WHERE INDICATED ON PLAN.
 3. SWITCHES INSTALLED AT 4'-0" AFF TO CENTER OF SWITCH UNLESS NOTED OTHERWISE.
 4. RCP DRAWING REPRESENTS LIGHT FIXTURE PLACEMENT ONLY. G.C. SHALL FIELD VERIFY ALL FIXTURE LOCATIONS. ANY CONFLICT WITHIN FIELD CONDITIONS, DRAWINGS AND/OR TRADES SHALL BE REPORTED TO ARCHITECT IMMEDIATELY UPON DISCOVERY FOR CLARIFICATION PRIOR TO PROCEEDING WITH ASSOCIATED WORK.
 5. G.C. WILL ENSURE THAT LENSES IN LIGHTING FIXTURES ARE CLEAN AND FREE OF DUST, DIRT, AND SMUDGES. PLASTIC AND LABELS SHALL BE REMOVED FROM ALL LIGHT FIXTURES UPON COMPLETION.
 6. CEILING HEIGHTS GIVEN FROM LEVEL LINE OF FLOOR BELOW.

- FF&E GENERAL NOTES**
1. PROVIDE AND COORDINATE FINAL LOCATION OF IN-WALL BLOCKING FOR ALL CASEGOODS AND MILLWORK WITH FABRICATOR AND GENERAL CONTRACTOR PRIOR TO INSTALLATION. PROVIDE BLOCKING FOR ALL PLUMBING ACCESSORIES (TOWEL BARS, GRAB BARS, ETC.).
 2. INSTALL ALL FINISH MATERIALS ACCORDING TO MANUFACTURER'S INSTRUCTIONS.
 3. ONLY ONE DYE LOT OF EACH STYLE AND COLOR SPECIFIED IN THE FINISH SCHEDULE SHALL BE USED.
 4. REMOVE FINISH MATERIALS FROM PACKAGING AND ALLOW TO ACCLIMATE TO AREA OF INSTALLATION ACCORDING TO MANUFACTURER'S INSTRUCTIONS.
 5. ALL PAINT SURFACES WHICH ARE TO RECEIVE A FINISH APPLICATION SHALL BE COMPLETELY SMOOTH AND SUITABLE FOR SCHEDULED FINISH.
 6. ALL PAINT SURFACES ARE TO RECEIVE ONE PRIME COAT AND A MINIMUM OF TWO FINISH COATS. APPLY ADDITIONAL COATS OF PRIME AND FINISH PAINT AS REQUIRED UNTIL EXISTING UNDERCOATS OR OTHER CONDITIONS ARE FULLY CONCEALED AND PAINT FILM IS OF UNIFORM FINISH, COLOR AND APPEARANCE.
 7. FLOORING TRANSITIONS WILL OCCUR UNDER CENTERLINE OF DOOR IN CLOSED POSITION, U.N.O. REFER TO SHEET A4.2 (THE DOOR SCHEDULE AND DOOR ELEVATIONS SHEET) FOR DETAILS.
 8. WHERE FLOORING MATERIAL OF DIFFERENT THICKNESS MEET, LEVEL AS REQUIRED TO MEET ADA GUIDELINES AND ENSURE SMOOTH TRANSITION. REFER TO FF&E SPECIFICATIONS BOOK FOR CODED ITEMS.
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 3. ACCESSIBLE AND/OR HEARING IMPAIRED GUESTROOMS SHALL BE EQUIPPED WITH VISUAL FIRE ALARM DEVICES AS WELL AS AUDIBLE DEVICES.
 4. ALL TYPES OF OUTLET RECEPTACLES MUST NOT BE SURFACE MOUNTED.
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 6. ELECTRICAL REQUIREMENTS AT GR KING HEADBOARD: POWER FOR (2) SCONCES AND (2) JACK PACKS.
 7. ELECTRICAL REQUIREMENTS AT GR QUEEN HEADBOARD: POWER FOR (2) SCONCES AND (2) JACK PACKS.
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GUESTROOM PLANS / ELEVATIONS:
ACCESSIBLE QUEEN / QUEEN SUITE

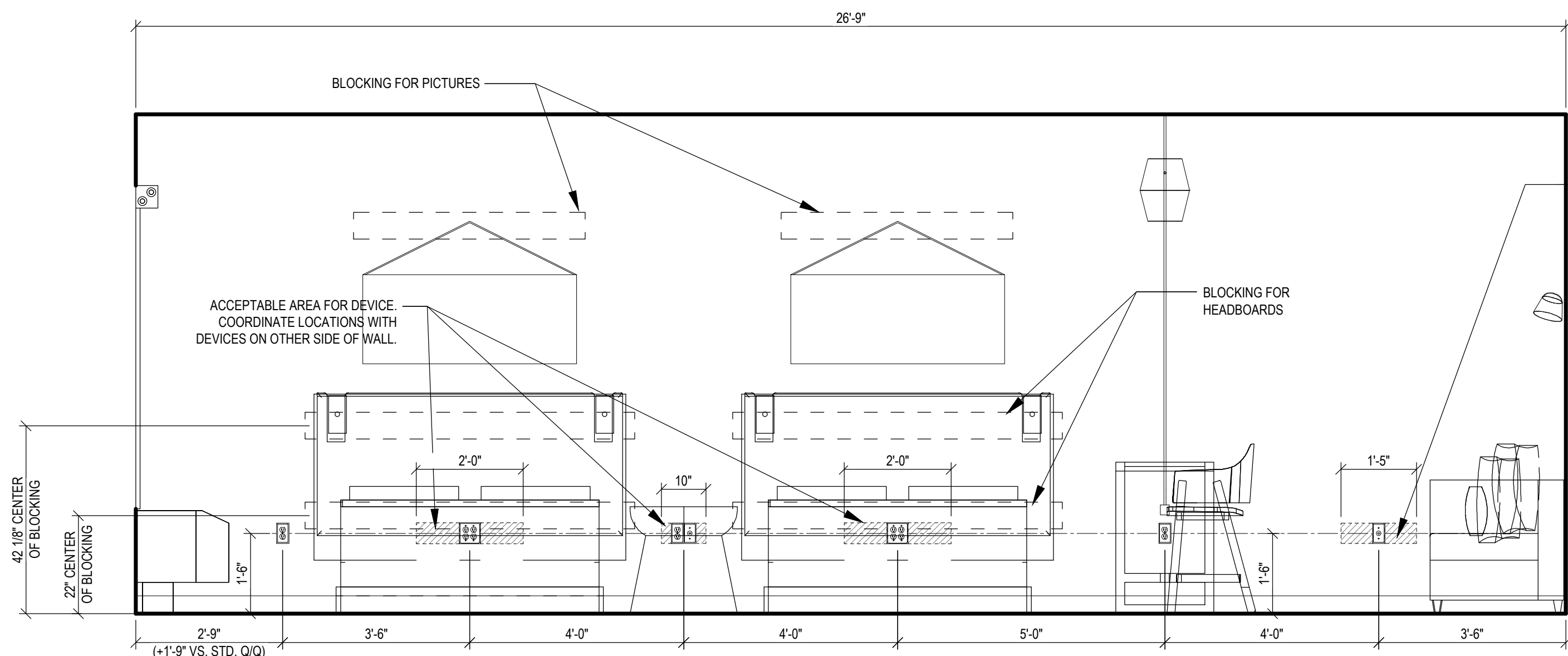
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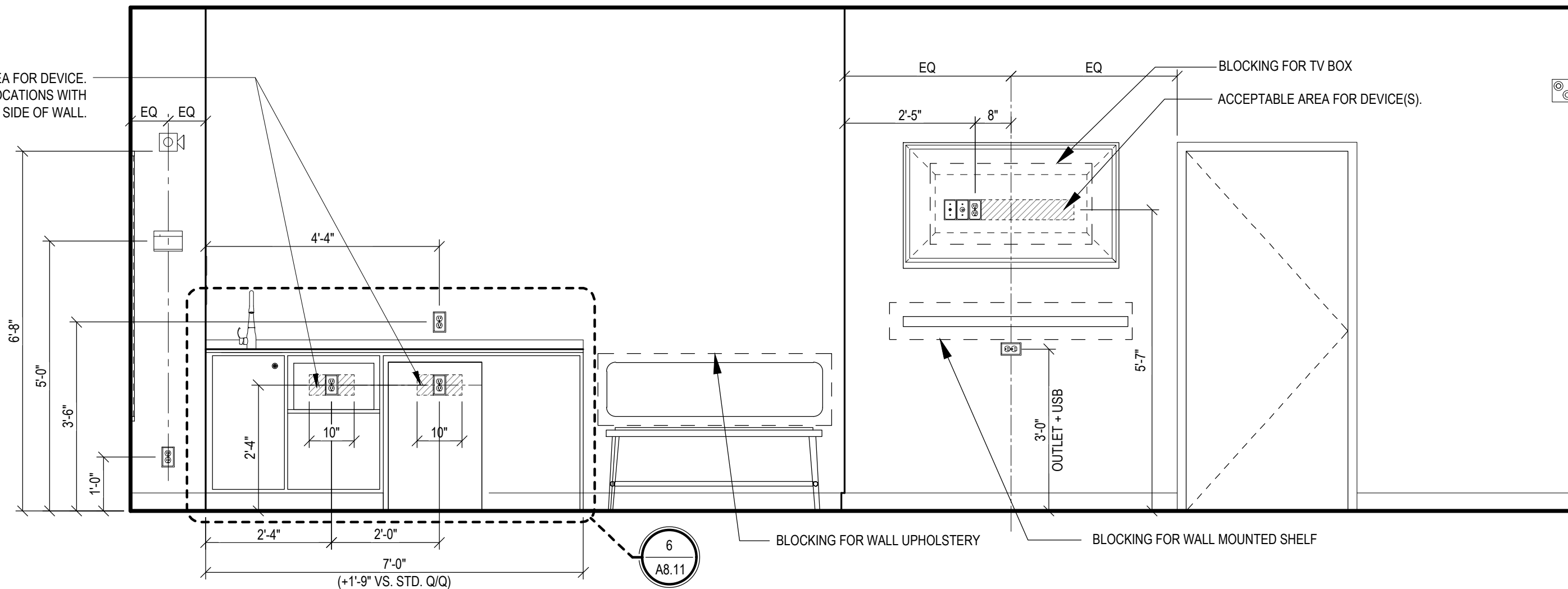
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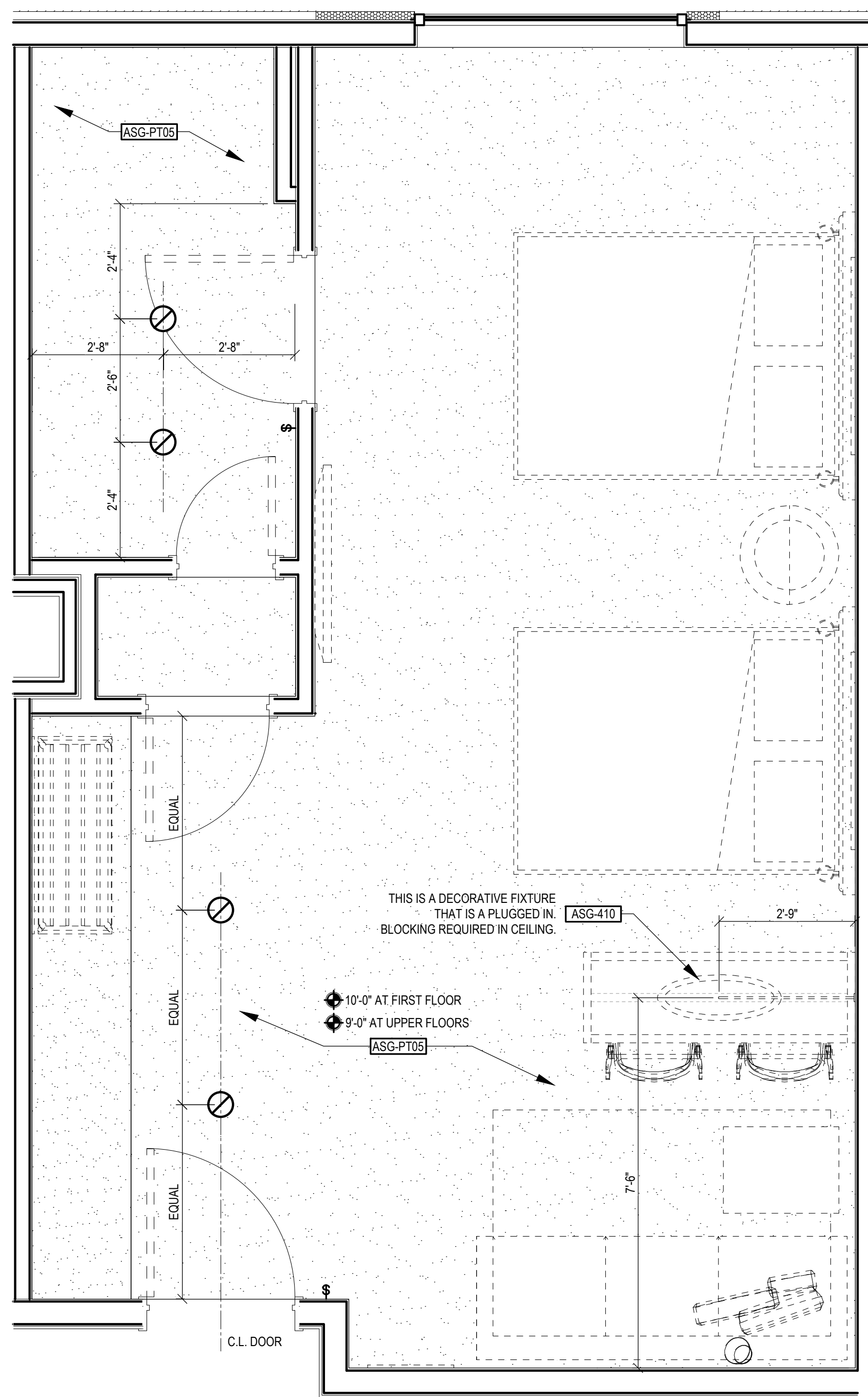
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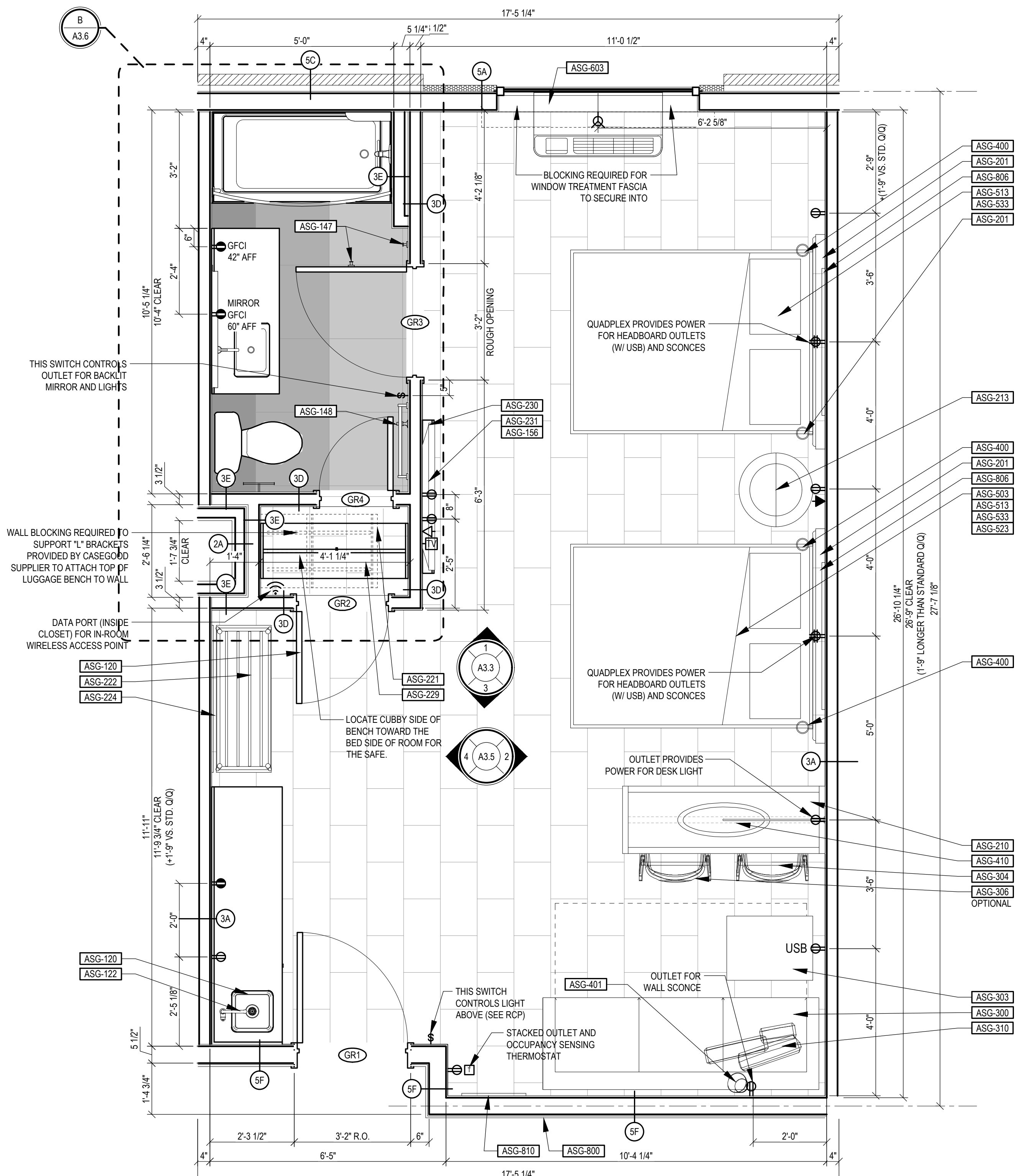
2
INTERIOR ELEVATION
SCALE: 1/2" = 1'-0"



4
INTERIOR ELEVATION
SCALE: 1/2" = 1'-0"



B
REFLECTED CEILING PLAN
SCALE: 1/2" = 1'-0"

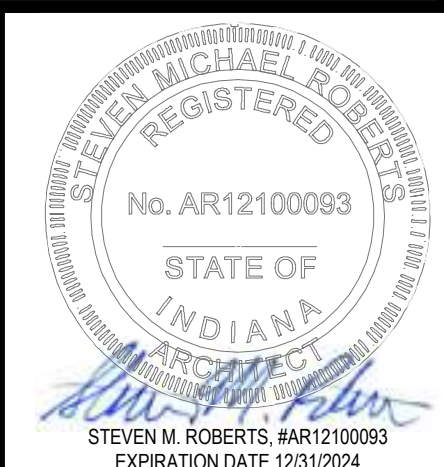


A
ARCHITECTURAL PLAN
SCALE: 1/2" = 1'-0"

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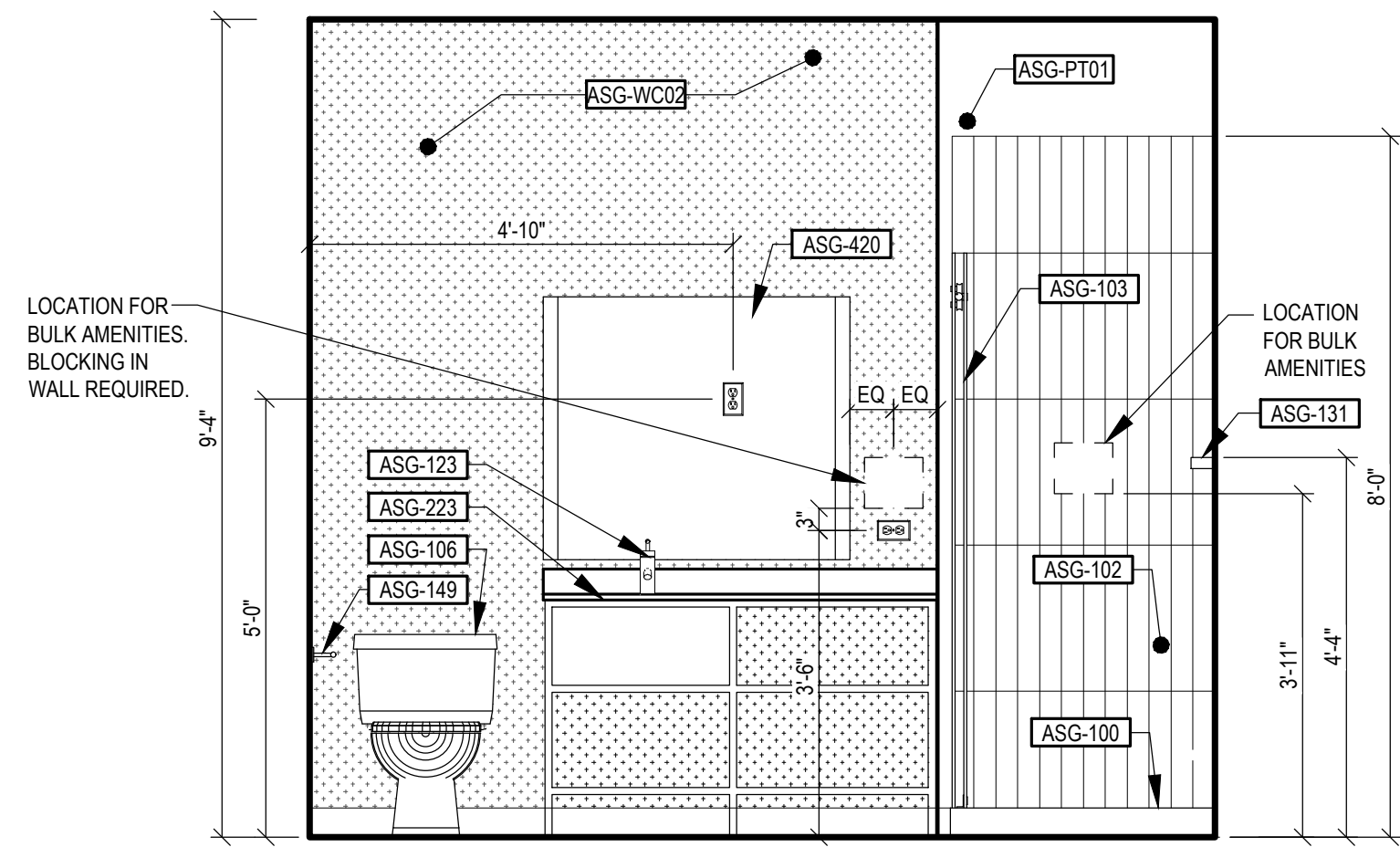


ATWELL SUITES
AN IHG HOTEL
ERLEN DR. & MINDEN DR. FISHERS, INDIANA 46037
GUESTROOM PLANS / ELEVATIONS:
EXTENDED QUEEN / QUEEN SUITE

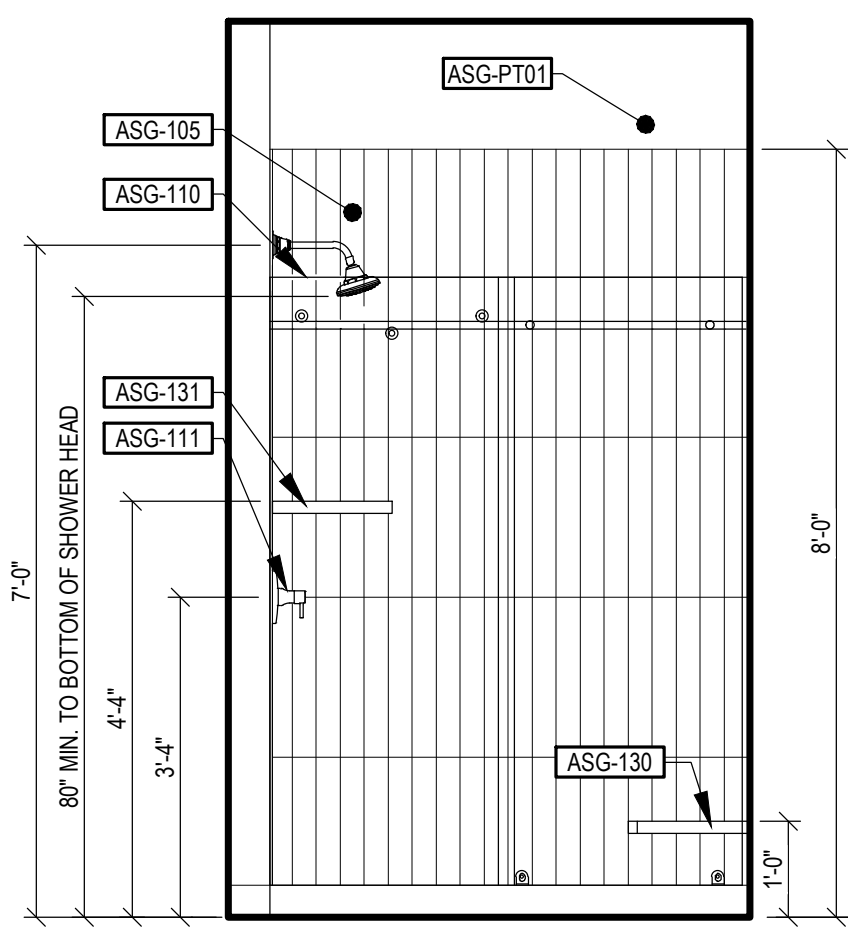
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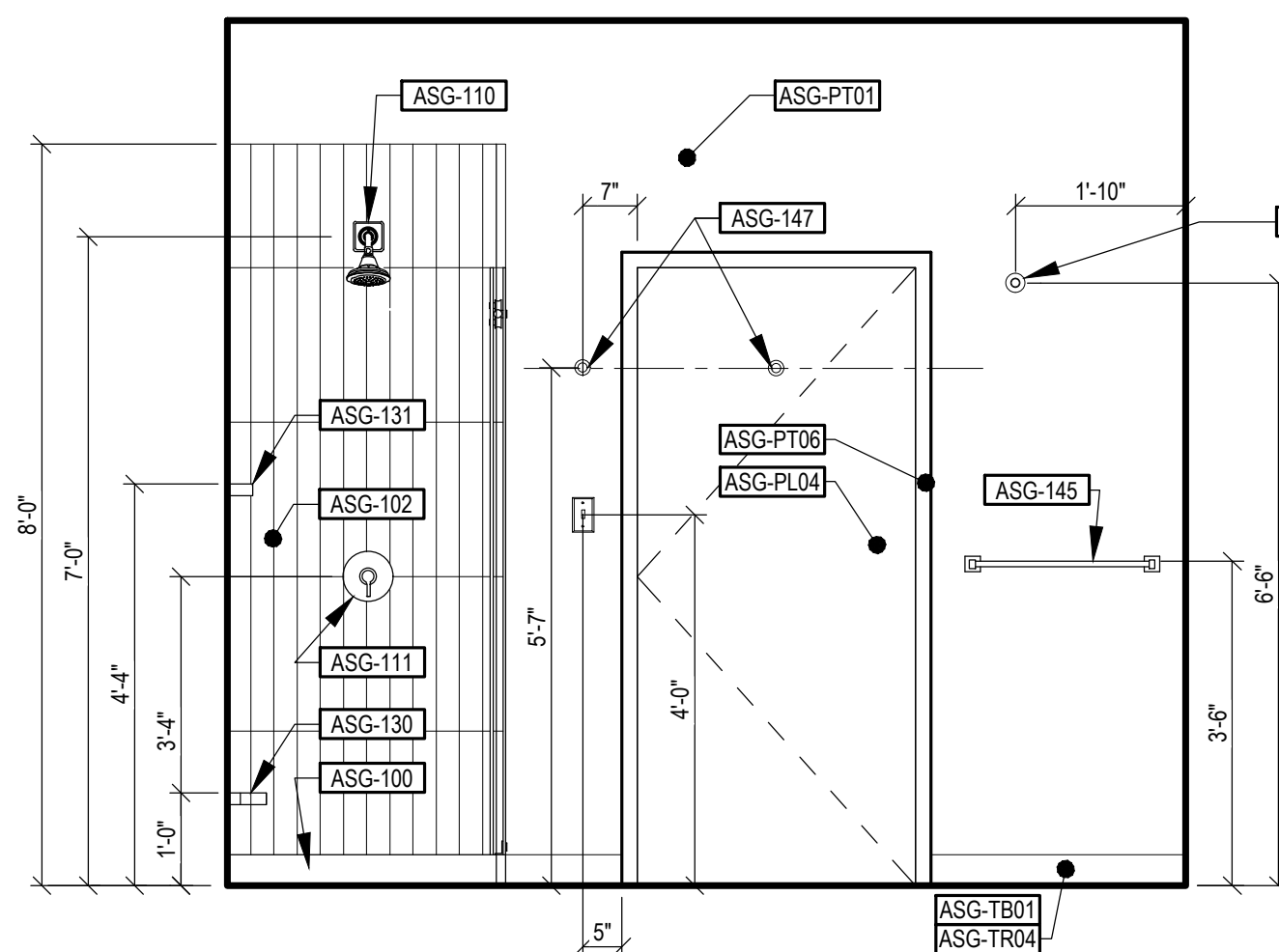
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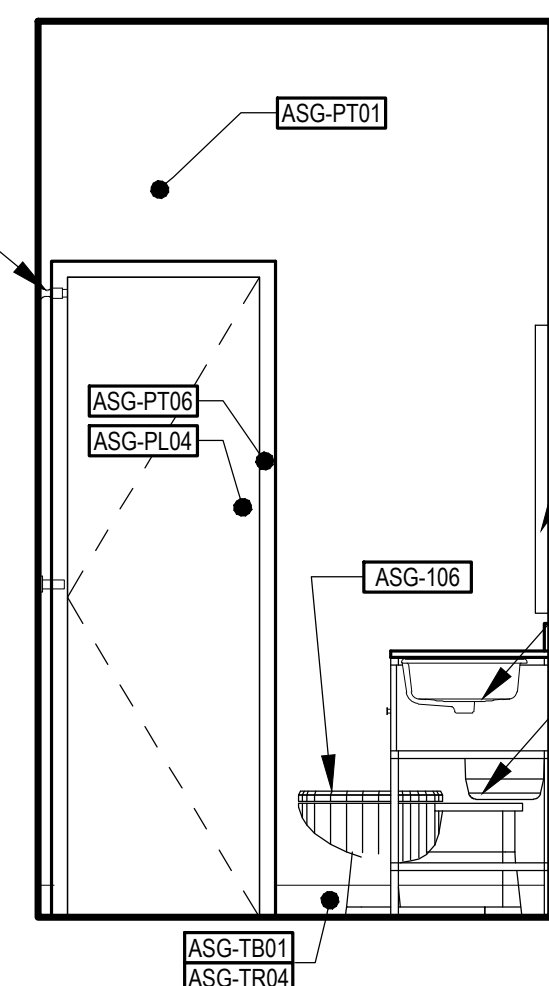
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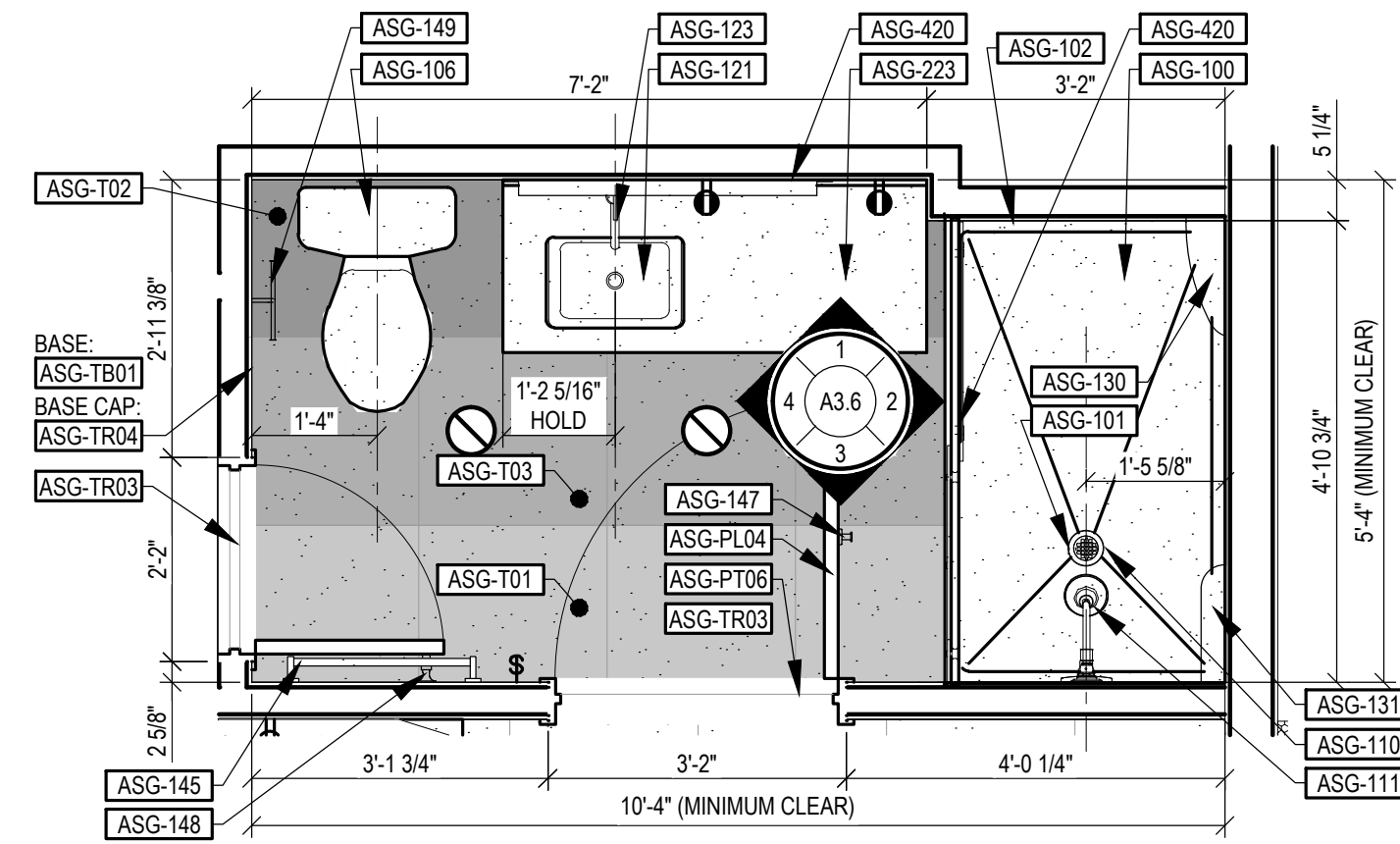
2 BR ELEV.
SCALE: 1/2" = 1'-0"



3 BATHROOM ELEVATION
SCALE: 1/2" = 1'-0"

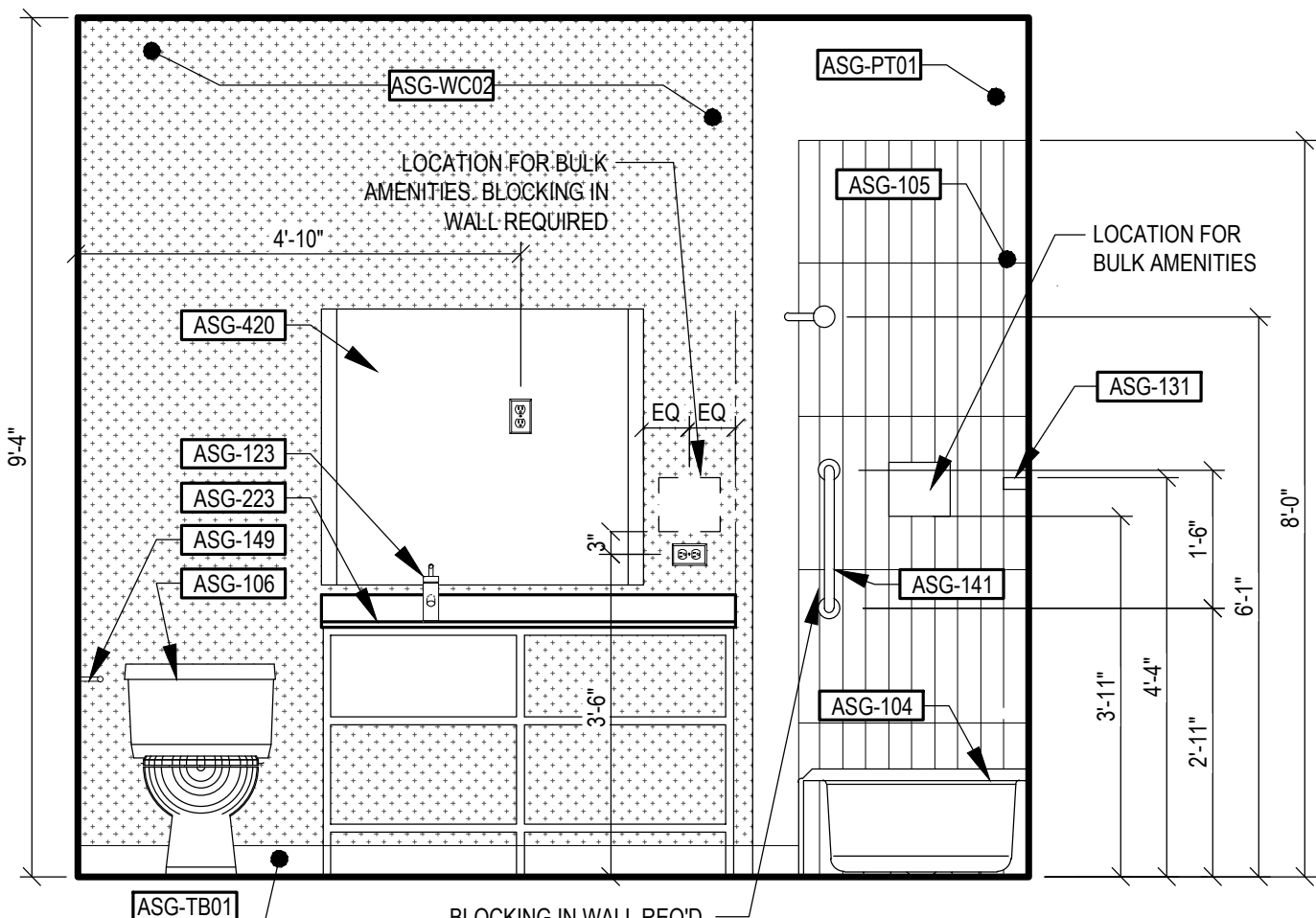


4 BR ELEV.
SCALE: 1/2" = 1'-0"

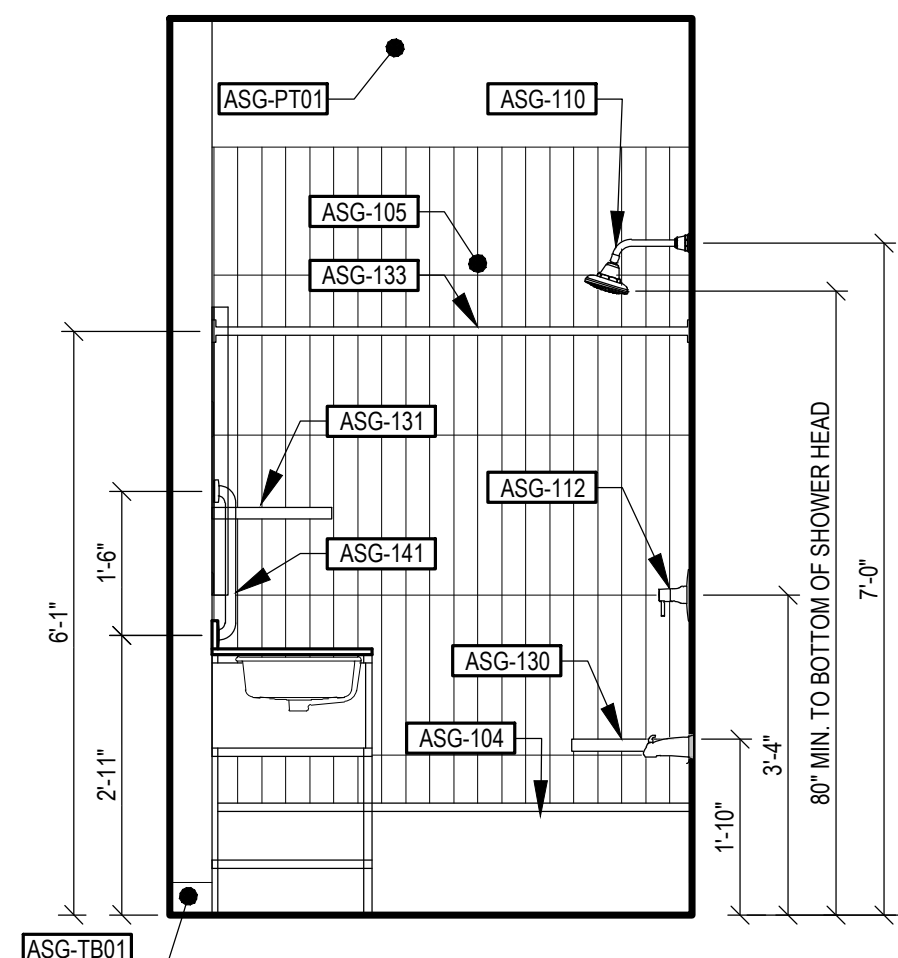


A BATHROOM PLAN
SCALE: 1/2" = 1'-0"

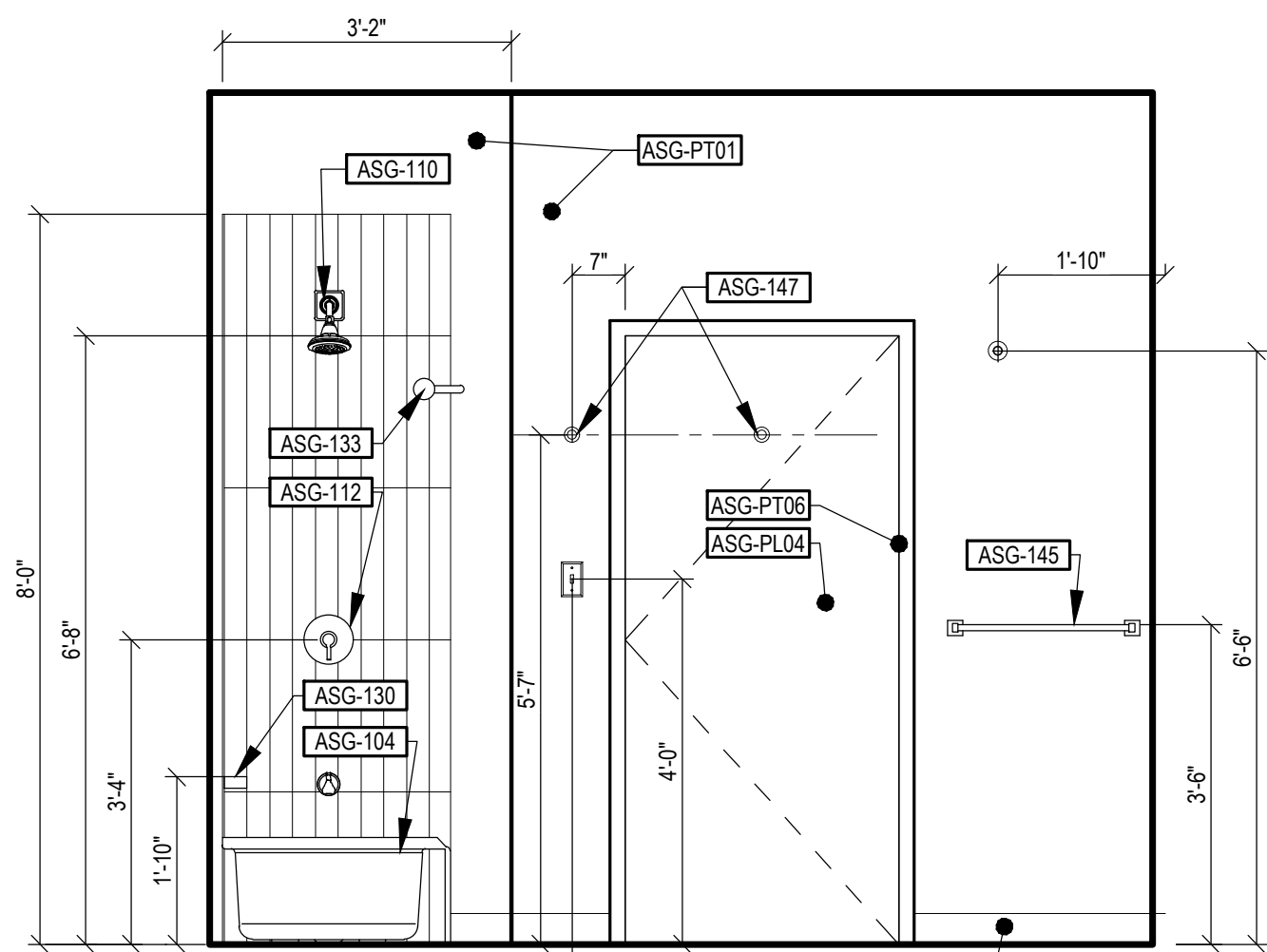
KING SUITE
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Quantity Right: 27 - 114, 117, 118, 121, 122, 125, 213, 214, 217, 218, 221, 222, 225, 313, 314, 317, 318, 321, 322, 325, 413, 414, 417, 418, 421, 422, 425



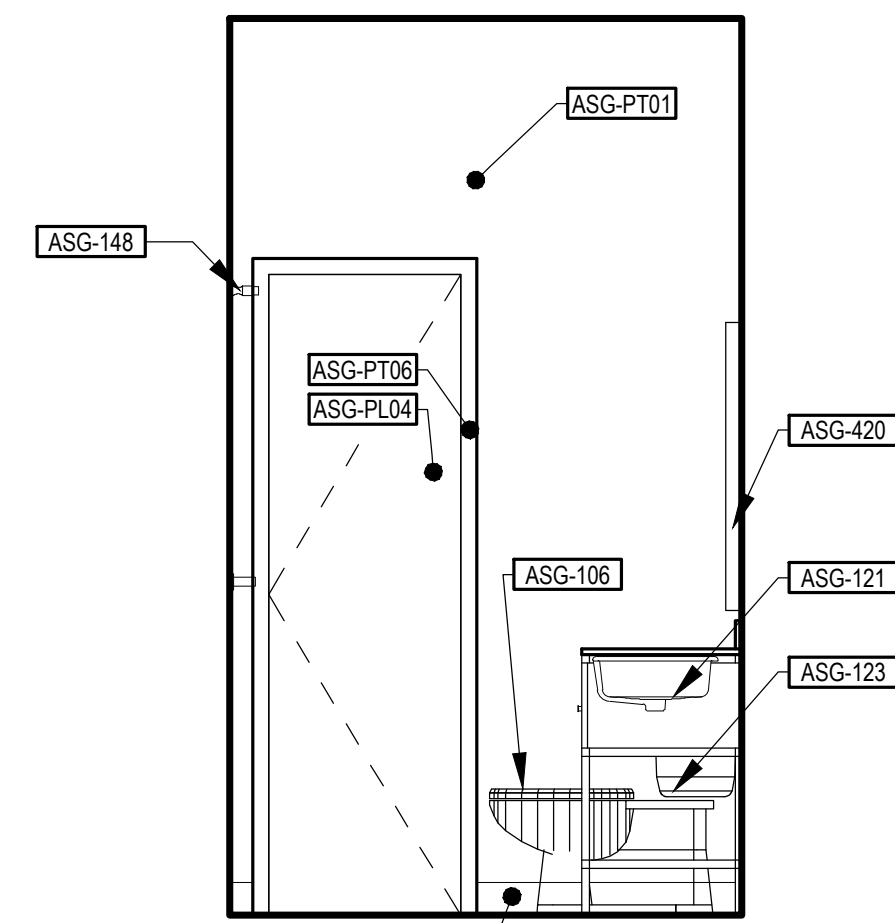
5 BATHROOM ELEVATION
SCALE: 1/2" = 1'-0"



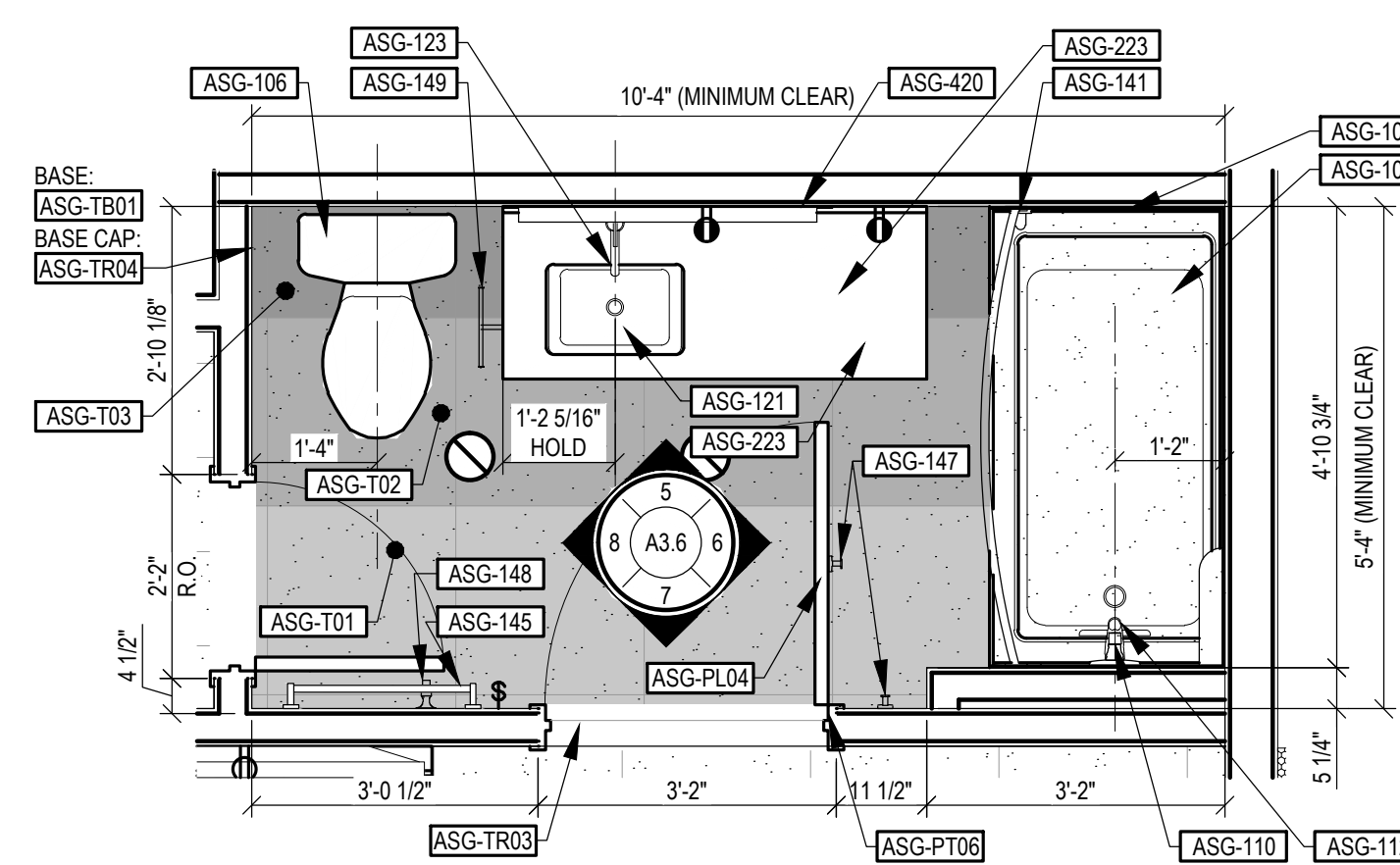
6 BR ELEV.
SCALE: 1/2" = 1'-0"



7 BATHROOM ELEVATION
SCALE: 1/2" = 1'-0"



8 BR ELEV.
SCALE: 1/2" = 1'-0"



B BATHROOM PLAN
SCALE: 1/2" = 1'-0"

DOUBLE QUEEN SUITE
Quantity: 4
Quantity Left: 24 - 127, 128, 132, 134, 210, 212, 227, 228, 232, 234, 304, 310, 312, 327, 328, 332, 334, 404, 410, 412, 427, 428, 432, 434
Quantity Right: 24 - 126, 129, 130, 135, 209, 211, 226, 229, 230, 235, 302, 309, 311, 326, 329, 330, 335, 402, 409, 411, 426, 429, 430, 435

RCP GENERAL NOTES

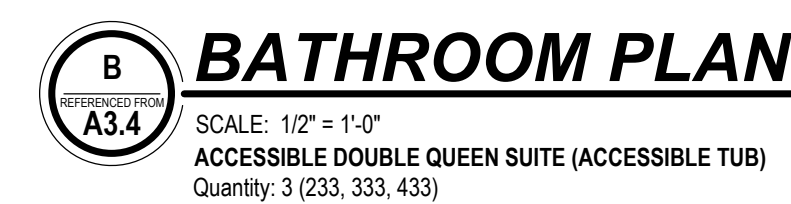
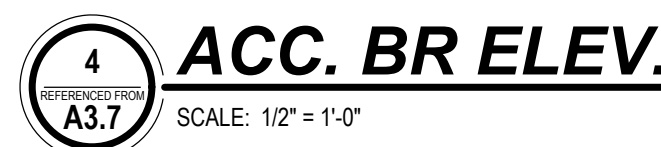
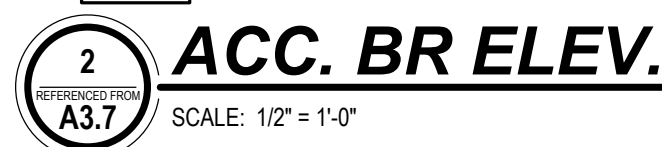
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- ELECTRICAL REQUIREMENTS AT GR KING AND QUEEN DESK: POWER (1) LAMP.
- ELECTRICAL REQUIREMENTS AT KITCHENETTE: POWER FOR (1) MICROWAVE OVEN, (1) REFRIGERATOR, GFI OUTLET ABOVE COUNTER.
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6. G.C. WILL ENSURE THAT LENSES IN LIGHTING FIXTURES ARE CLEAN AND FREE OF DUST, DIRT, AND SMUDGES. PLASTIC AND LABELS SHALL BE REMOVED FROM ALL LIGHT FIXTURES UPON COMPLETION.
7. CEILING HEIGHTS GIVEN FROM LEVEL LINE OF FLOOR BELOW.

1. PROVIDE AND COORDINATE FINAL LOCATION OF IN-WALL BLOCKING FOR ALL CASEGOODS AND MILLWORK WITH FABRICATOR AND GENERAL CONTRACTOR PRIOR TO INSTALLATION. PROVIDE BLOCKING FOR ALL PLUMBING ACCESSORIES (TOWEL BARS, GRAB BARS, ETC.).
2. INSTALL ALL FINISH MATERIALS ACCORDING TO MANUF. INSTRUCTIONS.
3. ONLY ONE DYE LOT OF EACH STYLE AND COLOR SPECIFIED IN THE FINISH SCHEDULE SHALL BE USED.
4. REMOVE FINISH MATERIALS FROM PACKAGING AND ALLOW TO ACCLIMATE TO AREA OF INSTALLATION ACCORDING TO MANUFACTURER'S INSTRUCTIONS.
5. ALL PAINT SURFACES WHICH ARE TO RECEIVE A FINISH APPLICATION SHALL BE COMPLETELY SMOOTH AND SUITABLE FOR SCHEDULED FINISH.
6. ALL PAINT SURFACES ARE TO RECEIVE ONE PRIME COAT AND A MINIMUM OF TWO FINISH COATS. APPLY ADDITIONAL COATS OF PRIME AND FINISH PAINT AS REQUIRED UNTIL EXISTING UNDERCOATS OR OTHER CONDITIONS ARE FULLY CONCEALED AND PAINT IS OF UNIFORM FINISH. COLOR AND FINISH SHALL BE AS SPECIFIED.
7. FLOORING TRANSITIONS WILL OCCUR UNDER CENTERLINE OF DOOR IN CLOSED POSITION, U.N.O.
8. WHERE FLOORING MATERIAL OF DIFFERENT THICKNESS MEET, LEVEL AS REQUIRED TO MEET ADA GUIDELINES AND ENSURE SMOOTH TRANSITION.
9. REFER TO FF&E SPECIFICATIONS BOOK FOR CODED ITEMS.
10. G.C. TO COORDINATE OUTLET AND SWITCH LOCATIONS WITH CASEGOODS PROVIDED.

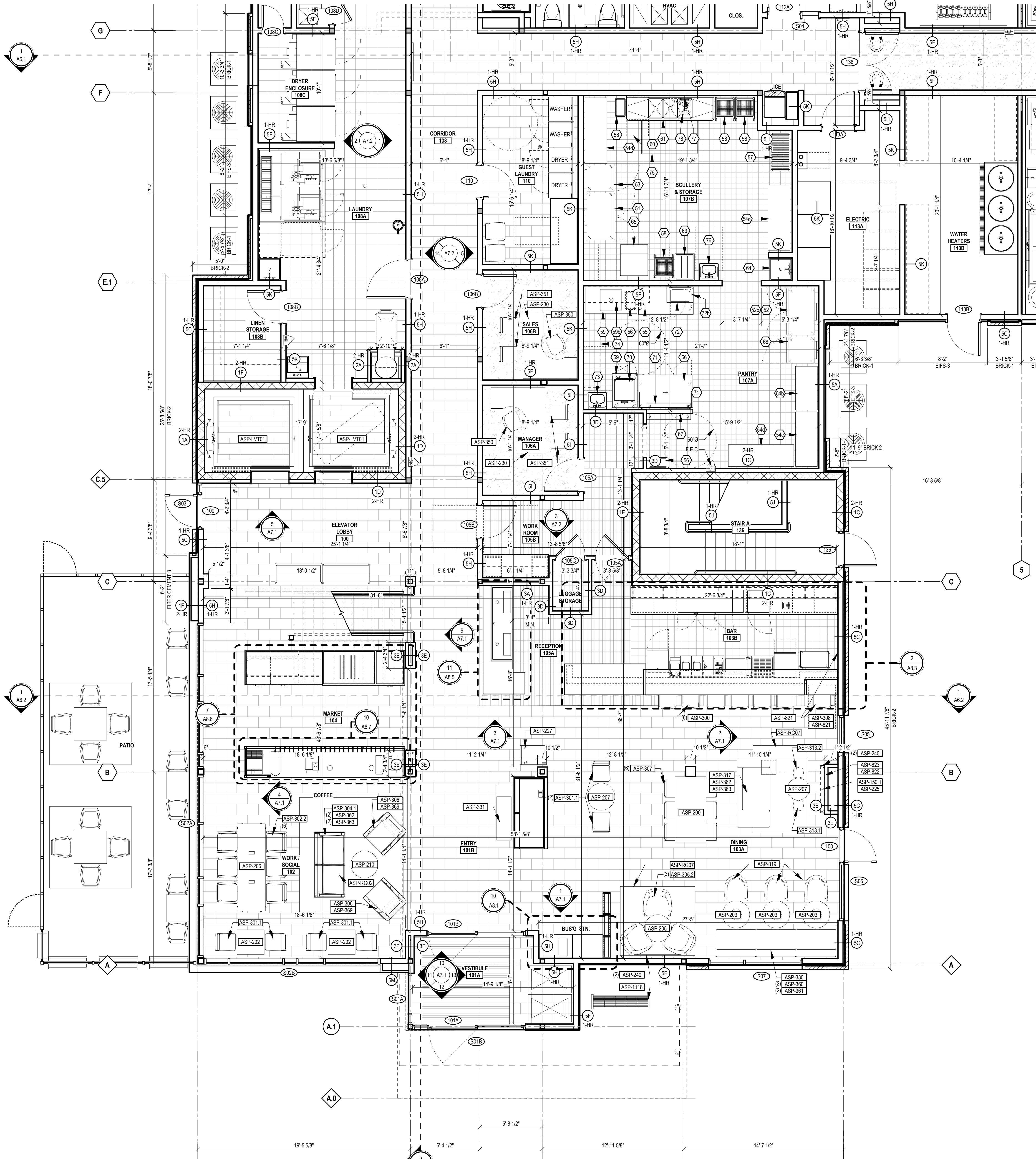
2. OUTLETS TO BE INSTALLED AT 1'-6" AFF U.N.O.
3. AN ADDRESSABLE FIRE ALARM SYSTEM IS REQUIRED BY BRAND STANDARDS. SMOKE DETECTOR SHALL BE LOCALLY ANNUNCIATED. ALL GUESTROOM SMOKE DETECTORS WITHIN ACCESSIBLE AND/OR HEARING IMPAIRED GUESTROOMS SHALL BE EQUIPPED WITH AN INTEGRAL STROBE LIGHT.
4. ACCESSIBLE AND/OR HEARING IMPAIRED GUESTROOMS SHALL BE EQUIPPED WITH VISUAL FIRE ALARM DEVICES AS WELL AS AUDIBLE DEVICES.
5. ALL TYPES OF OUTLET RECEPTACLES MUST NOT BE SURFACE MOUNTED.
6. THERMOSTATS ARE TO BE INSTALLED AT 5'-0" AFF TO CENTER OF UNIT U.N.O.
7. ELECTRICAL REQUIREMENTS AT GR KING HEADBOARD: POWER FOR (2) SCONCES AND (2) JACK PACKS
8. ELECTRICAL REQUIREMENTS AT GR QUEEN HEADBOARD: POWER FOR (2) SCONCES AND (2) JACK PACKS.
9. ELECTRICAL REQUIREMENTS AT GR KING AND QUEEN DESK: POWER (1) LAMP.
10. ELECTRICAL REQUIREMENTS AT KITCHENETTE: POWER FOR (1) MICROWAVE OVEN, (1) REFRIGERATOR, GFI OUTLET ABOVE COUNTER.
11. ELECTRICAL REQUIREMENTS AT TELEVISION SHELF: POWER AND CAT6 CABLEING FOR (1) TELEVISION AT 5'-7" AFF. CONVENIENCE OUTLET AT 3'-0" AFF.
12. ANY CIRCUITING NOTED ON THESE PLANS INDICATES DESIGN INTENT ONLY.

ACCESSIBLE GUEST BATHROOM PIANS & ELEVATIONS

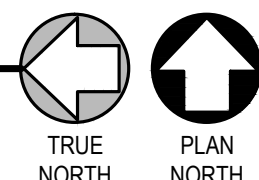
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FOOD SERVICE EQUIPMENT SCHEDULE - PANTRY					
ITEM NO.	QTY.	DESCRIPTION	ELECTRICAL CONN.	PLUMB. CONN.	REMARKS
51	1	FREEZER, REACH-IN	115V/60/1, NEMA 5-15P, 6.3A	NO	
52	1	REFRIGERATOR, REACH-IN	115V/60/1, NEMA 5-15P, 2.8A	NO	
52b	12	PAN SLIDES (THAWING RACKS)	NO	NO	
53	1	1-DOOR REFRIGERATOR, REACH-IN	115V/60/1, NEMA 5-15P, 2.5A	NO	
54b	6	WIRE MESH SHELVING 24"x48"	-	NO	
54c	2	WIRE MESH SHELVING 24"x54"	-	NO	
54d	1	WIRE MESH SHELVING 24"x60"	-	NO	
55	1	WORKTOP SOLID DOOR FREEZER	115V/60/1, NEMA 5-15P, 4.9A	NO	
56	3	TRASH CAN	-	NO	
57	1	VENTED DRYING RACK	-	NO	
58	3	GLASS RACK DOLLY WITH 36" HANDLE	-	NO	
59	1	FOOD PREP SINK W/ DRAINBOARDS	NO	YES	
59b	1	WALL SHELF	-	NO	MOUNT SHELF 84" A.F.F.
60	1	WAREWASHER, UNDERCOUNTER, HIGH TEMP	240V/60/1, 36A	YES	VENTLESS, WITH STEAM RECAPTURE
61	1	THREE COMPARTMENT SS SINK WITH DRAINBOARDS	-	YES	
63	1	END LOAD RACK	-	NO	
64	1	MOP SINK	-	YES	
65	1	ICE MAKER W/ BIN	115V/60/1, 11.9A	YES	
66	1	PIZZA PREP TABLE	115V/60/1, 4.5A	NO	
67	1	INFRARED STRIP HEATER (24")	240V/60/1, 500W	NO	
68	1	1-DOOR FREEZER, REACH-IN	115V/60/1, NEMA 5-15P, 4.4A	NO	
69	1	RE THERM OVEN	240V/60/1, NEMA 6-50P, 30A	NO	
70	1	HIGH SPEED OVEN	240V/60/1, NEMA 6-30P, 30A	NO	
71	1	PASS-THRU SHELF WITH OVERSHELF	-	NO	
72	1	MICROWAVE OVEN	120V/60/1, NEMA 5-15P, 15A	NO	
72b	1	WALL SHELF	-	NO	MOUNT SHELF 48" A.F.F.
73	1	HAND SINK W/EYE WASH ATTACHMENT	-	YES	
74	1	WALL SHELF	-	NO	MOUNT SHELF 96" A.F.F.
75	1	DRAINAGE MAT, 3' X 5'	-	NO	
76	1	HAND SINK	-	YES	
77	1	PRE-RINSE UNIT, 8" WALL MOUNT MIXING FAUCET	-	YES	
78	1	DISPOSAL	-	YES	

NOTE: EQUIPMENT SPECIFICATIONS ARE AVAILABLE AT www.IHGDesignConnect.com.



ENLARGED ARCHITECTURAL PLAN - FIRST FLOOR LOBBY AND BACK-OF-HOUSE
SCALE: 1/4" = 1'-0"



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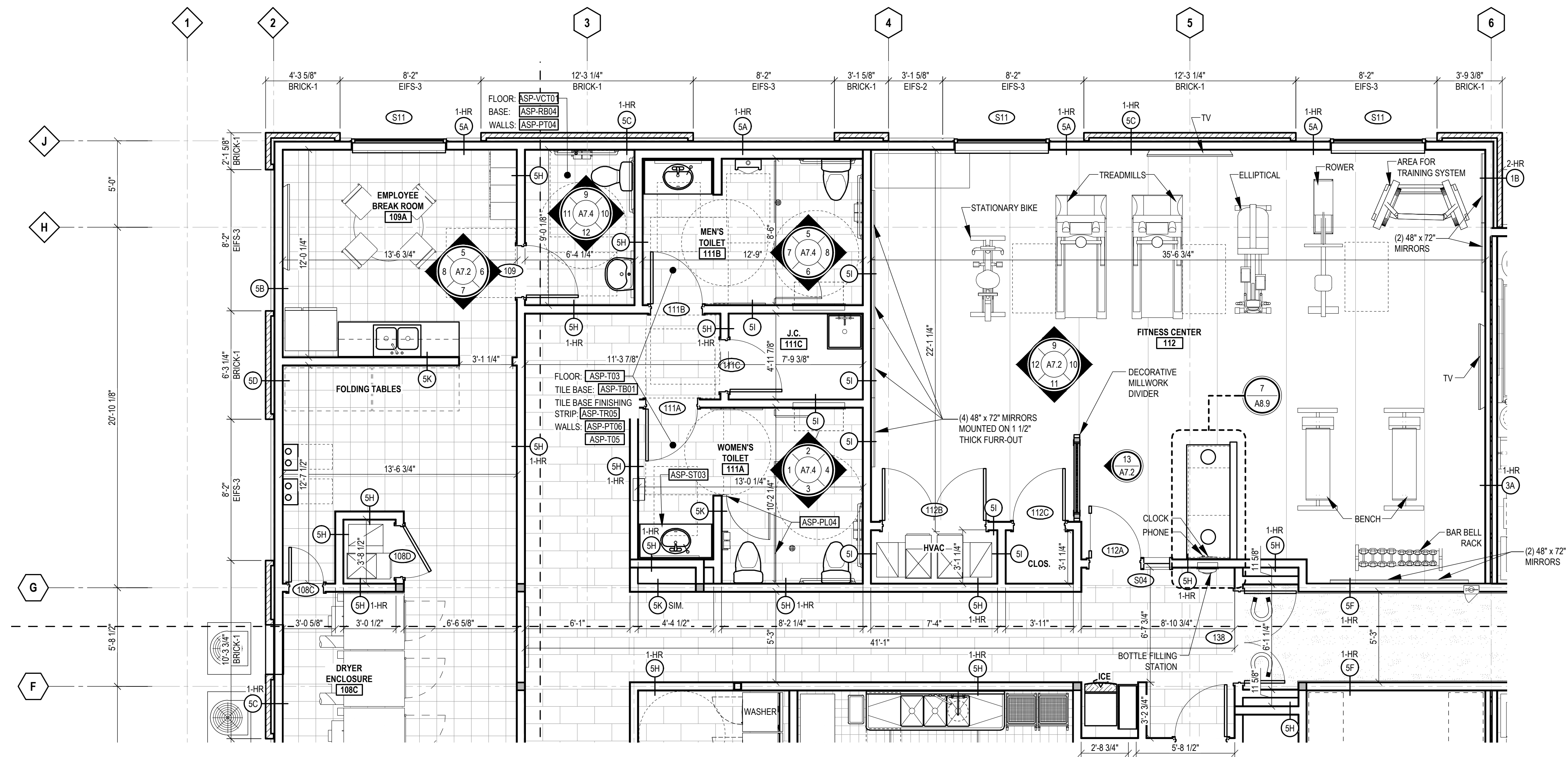
ATWELL SUITES
AN IHG HOTEL
ERLEN DR. & MINDEN DR. FISHERS, INDIANA 46037
ENLARGED ARCHITECTURAL PLAN:
LOBBY AND BACK-OF-HOUSE

ISSUE / REVISION DATE:
05/04/2022 OWNER REVIEW
06/23/2022 OWNER REVIEW
08/04/2022 PRELIMINARY REVIEW
01/13/2023 FRANCHISE REVIEW
04/21/2023 FRANCHISE REVIEW
05/17/2023 SAKONY DESIGN REVIEW 1
09/19/2023 HIG FINAL REVIEW
11/17/2023 SAKONY DESIGN REVIEW 2
01/26/2024 FOR CONSTRUCTION

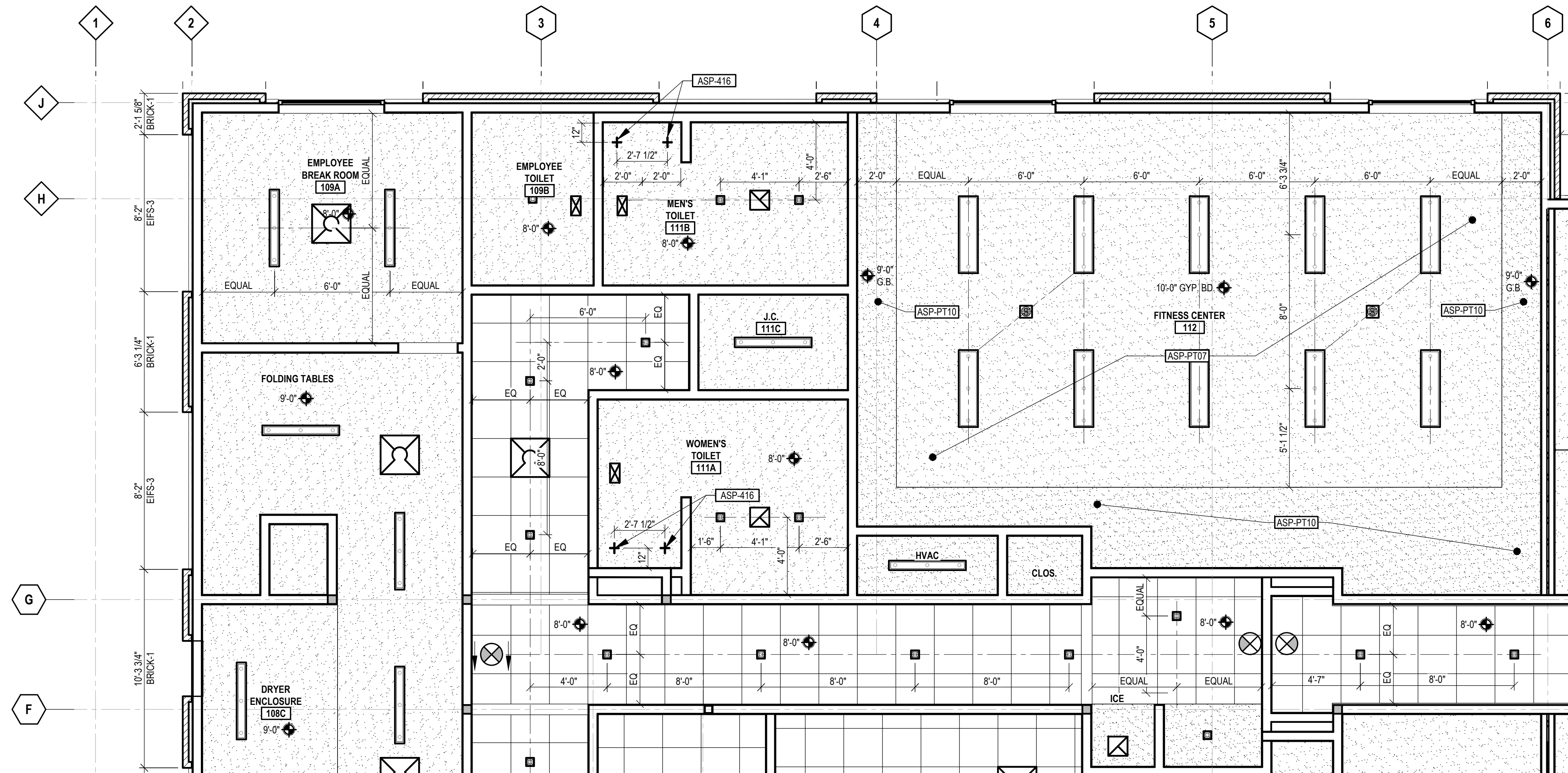
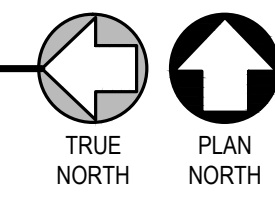
SMR Project No. **AWSFIN**

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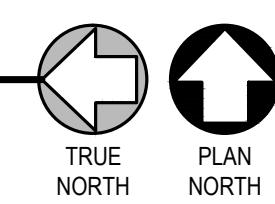
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A
A2.1
ENLARGED FIRST FLOOR PLAN - FITNESS CENTER AREA
SCALE: 1/4" = 1'-0"



B
A2.6
ENLARGED FIRST FLOOR REFLECTED CEILING PLAN - FITNESS CENTER AREA
SCALE: 1/4" = 1'-0"



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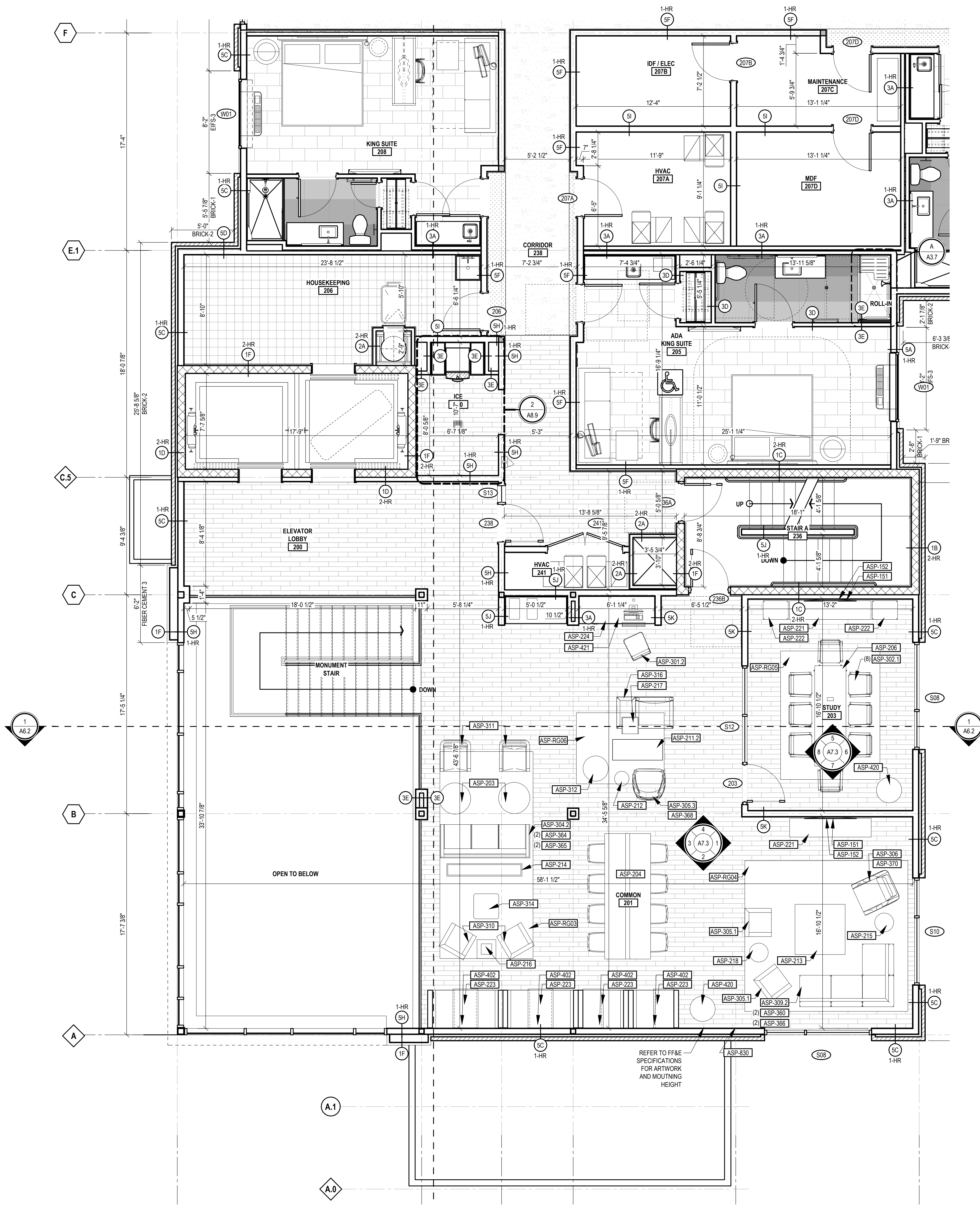
ATWELL SUITES
AN IHG HOTEL
ERLEN DR. & MINDEN DR. FISHERS, INDIANA 46037 HAMILTON COUNTY
ENLARGED FITNESS CENTER AREA
FLOOR PLAN & REFLECTED CEILING

ISSUE / REVISION DATE:

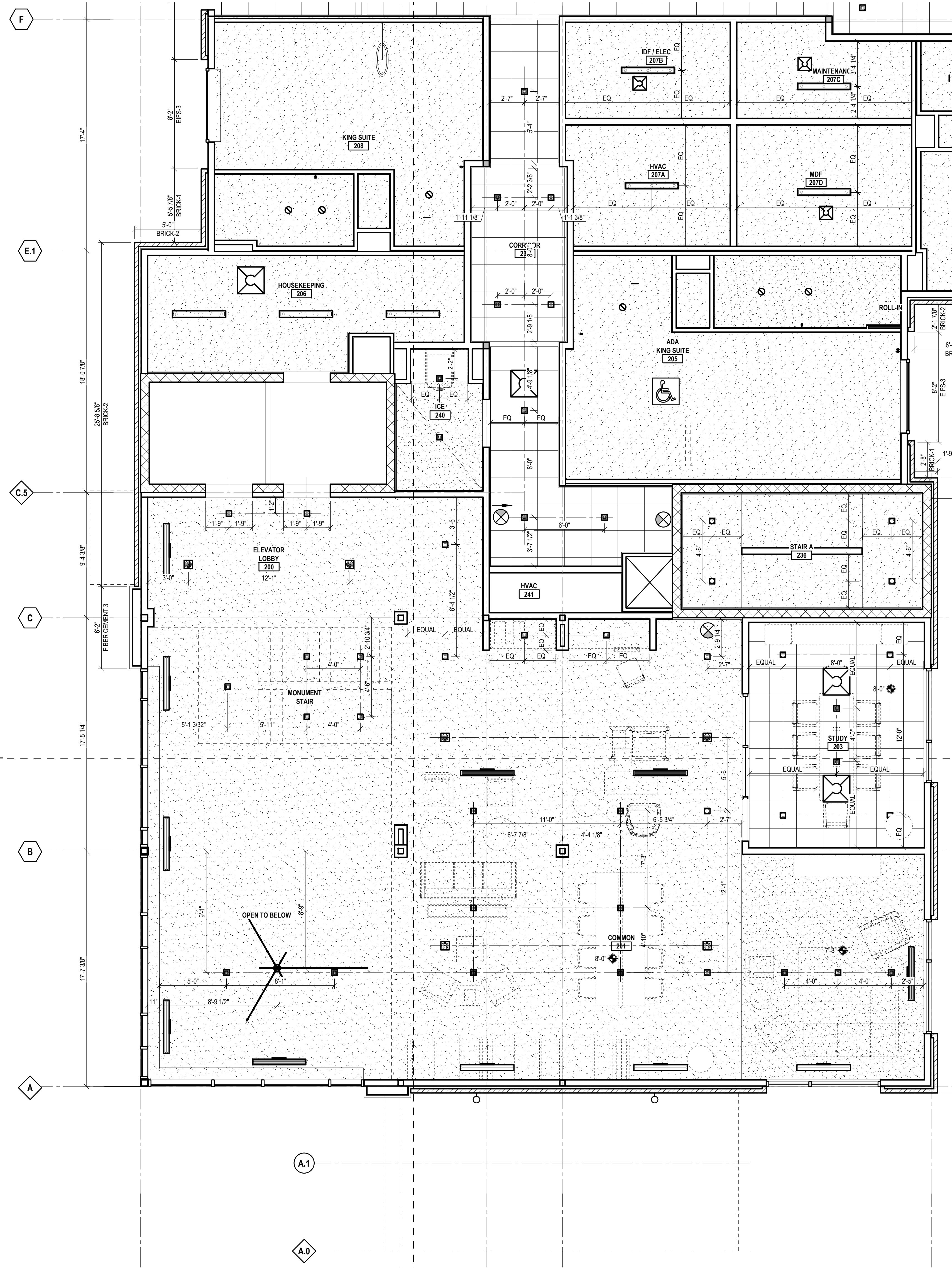
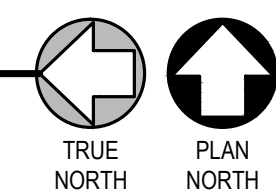
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04/21/2023	FRANCHISE REVIEW
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09/19/2023	HG FINAL REVIEW
11/17/2023	SAXONY DESIGN REVIEW 2
01/26/2024	FOR CONSTRUCTION

SMR Project No. **AWSFIN**

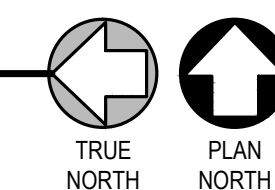
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A ENLARGED SECOND FLOOR LOBBY PLAN
SCALE: 1/4" = 1'-0"



B ENLARGED SECOND FLOOR LOBBY REFLECTED CEILING PLAN
SCALE: 1/4" = 1'-0"



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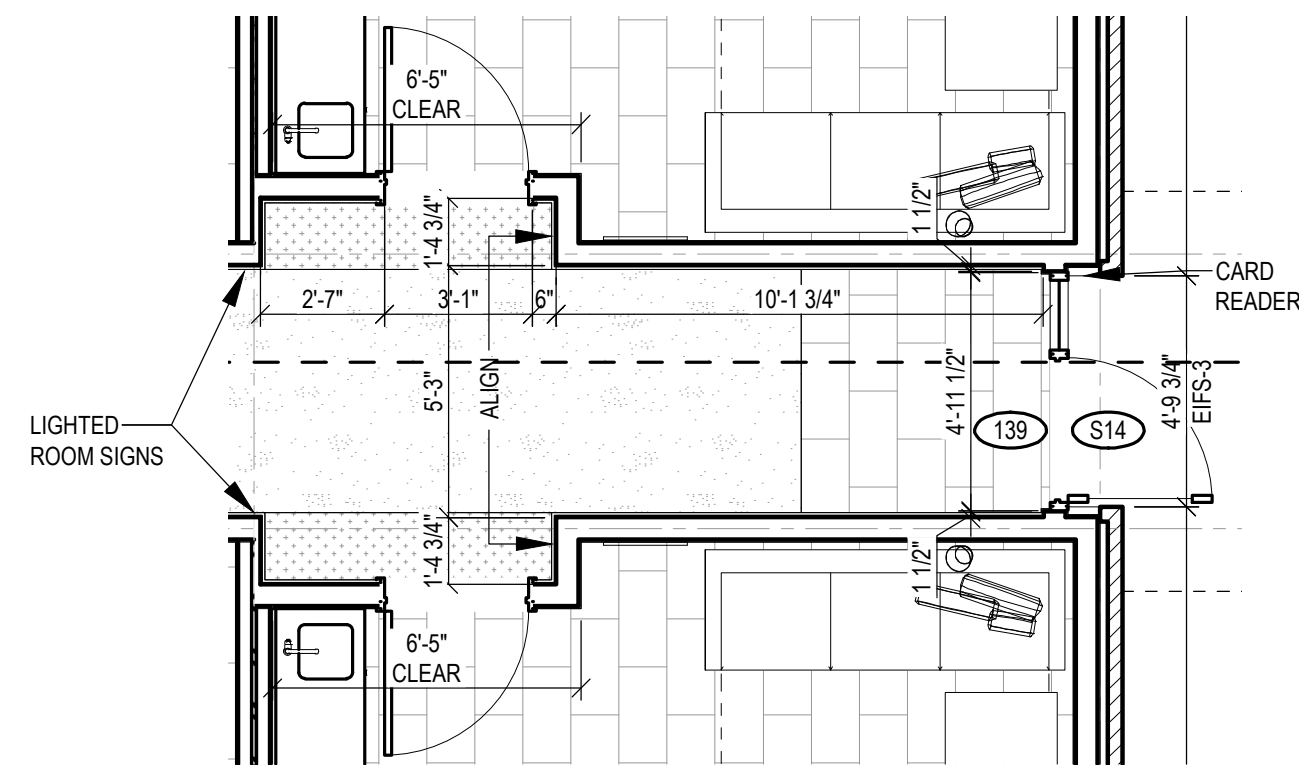
ATWELL SUITES
AN IHG HOTEL
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ENLARGED FLOOR LOBBY PLAN &
REFLECTED CEILING PLAN

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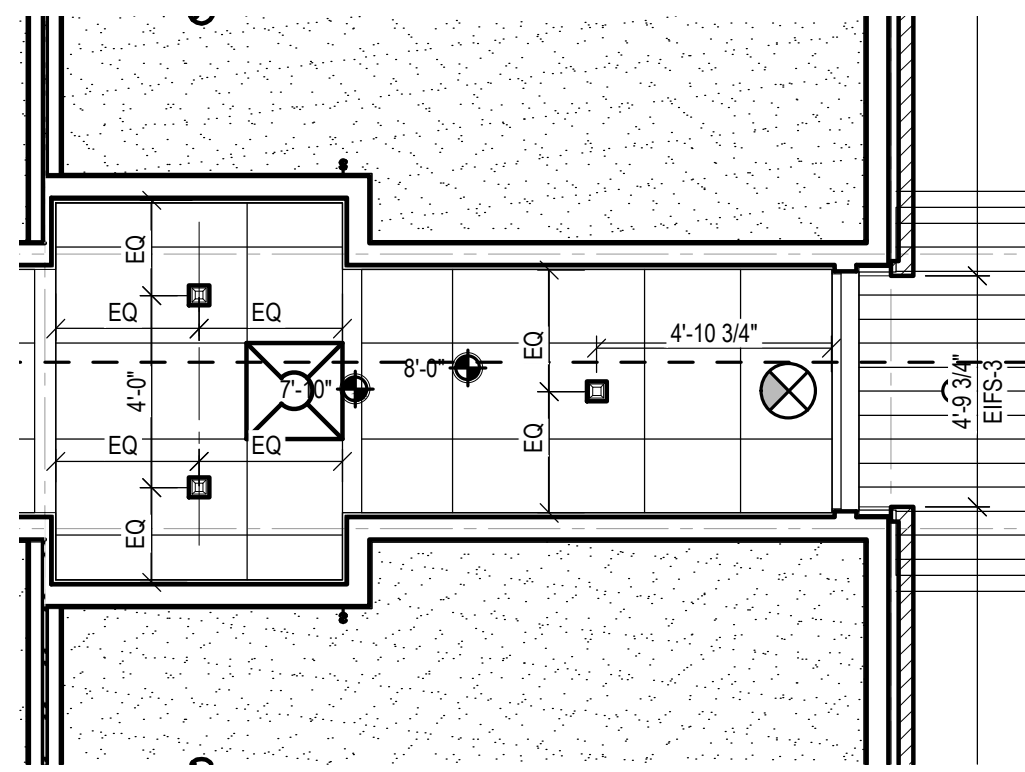
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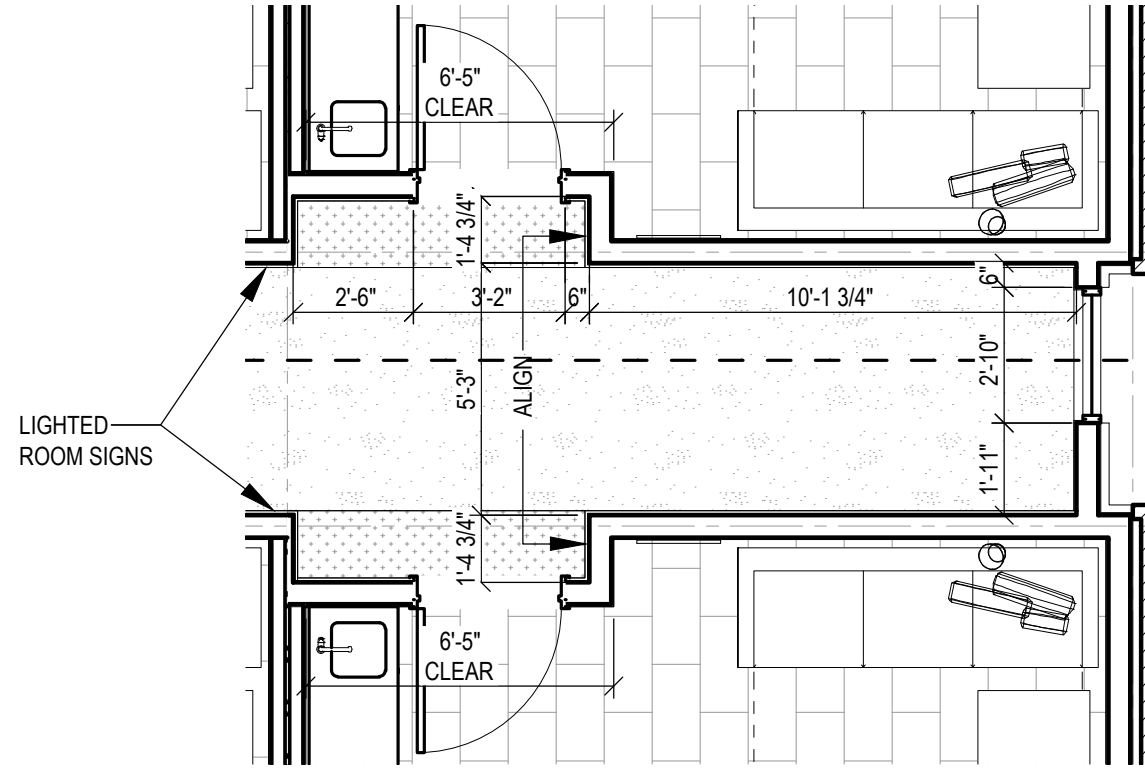
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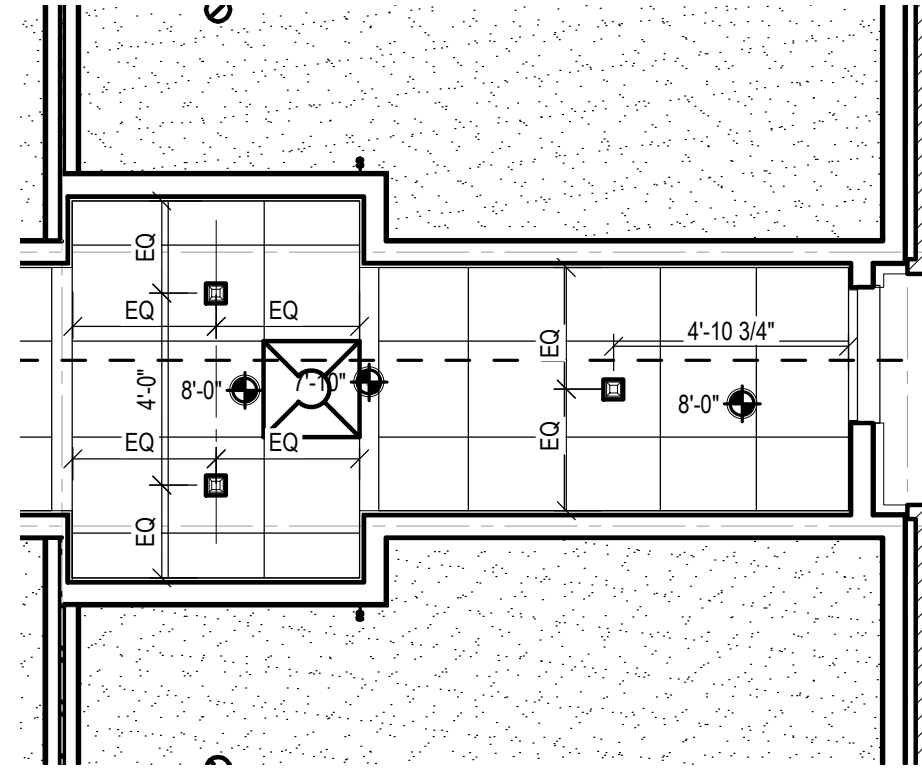
A
ENLARGED CORRIDOR PLAN
1ST FLOOR SOUTH END
SCALE: 1/4" = 1'-0"



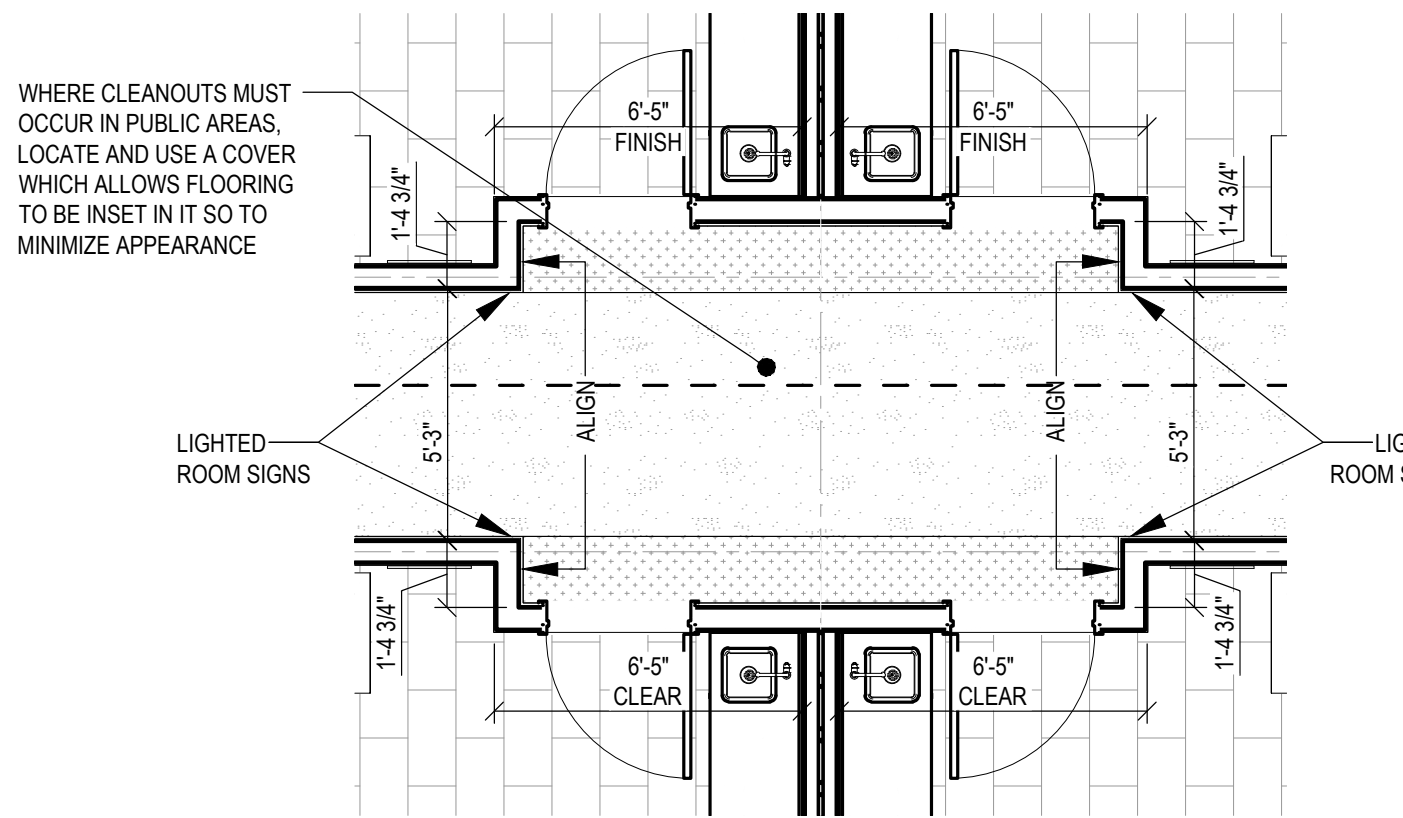
B
ENLARGED CORRIDOR RCP
1ST FLOOR SOUTH END
SCALE: 1/4" = 1'-0"



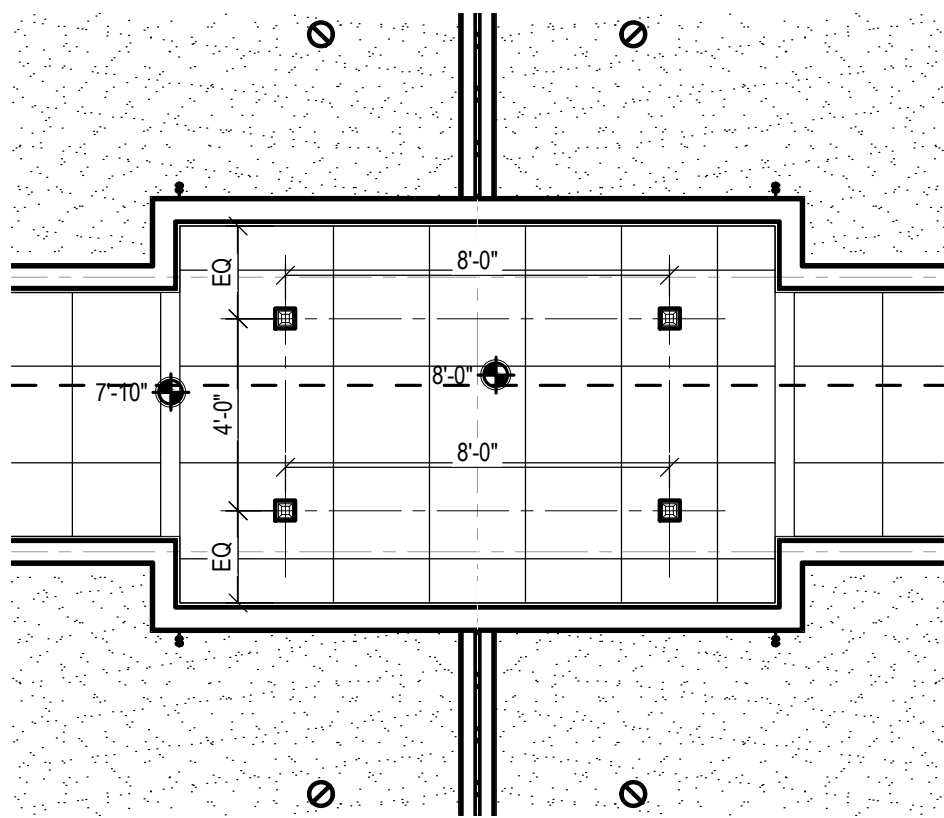
C
ENLARGED CORRIDOR PLAN
UPPER FLOORS SOUTH END
SCALE: 1/4" = 1'-0"



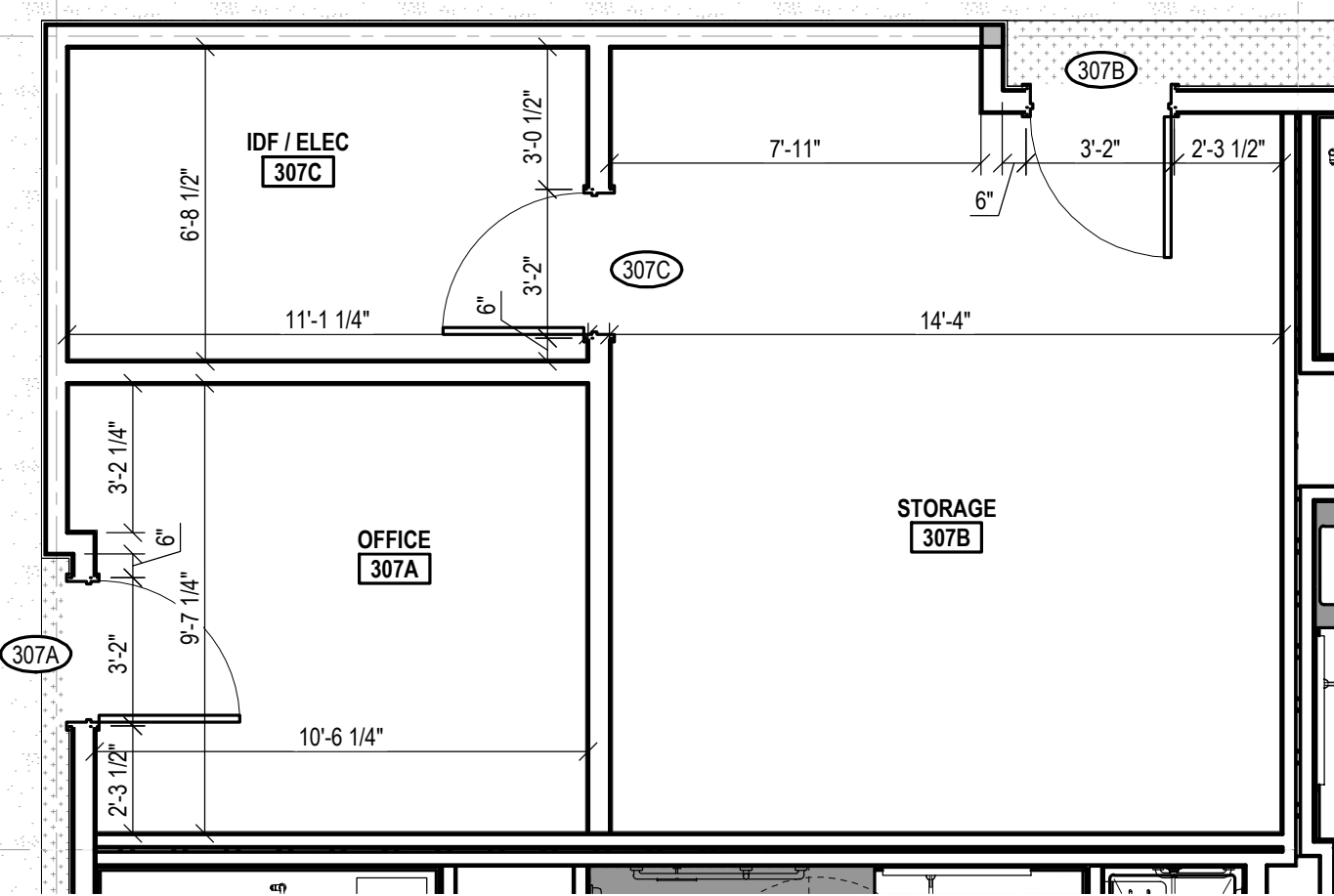
D
ENLARGED CORRIDOR PLAN
UPPER FLOORS SOUTH END
SCALE: 1/4" = 1'-0"



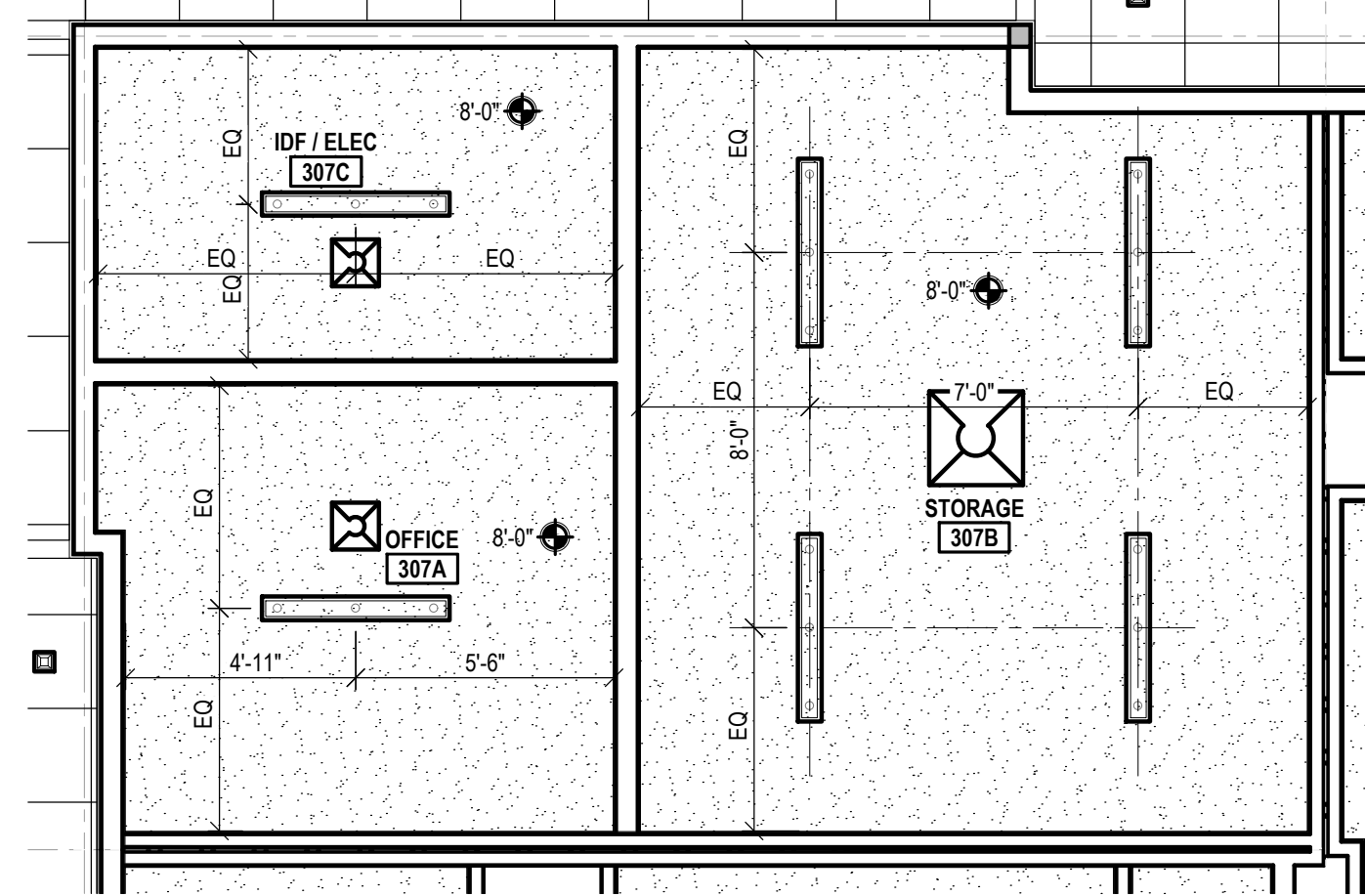
E
ENLARGED TYPICAL
GUESTROOM DOOR DROP PLAN
SCALE: 1/4" = 1'-0"



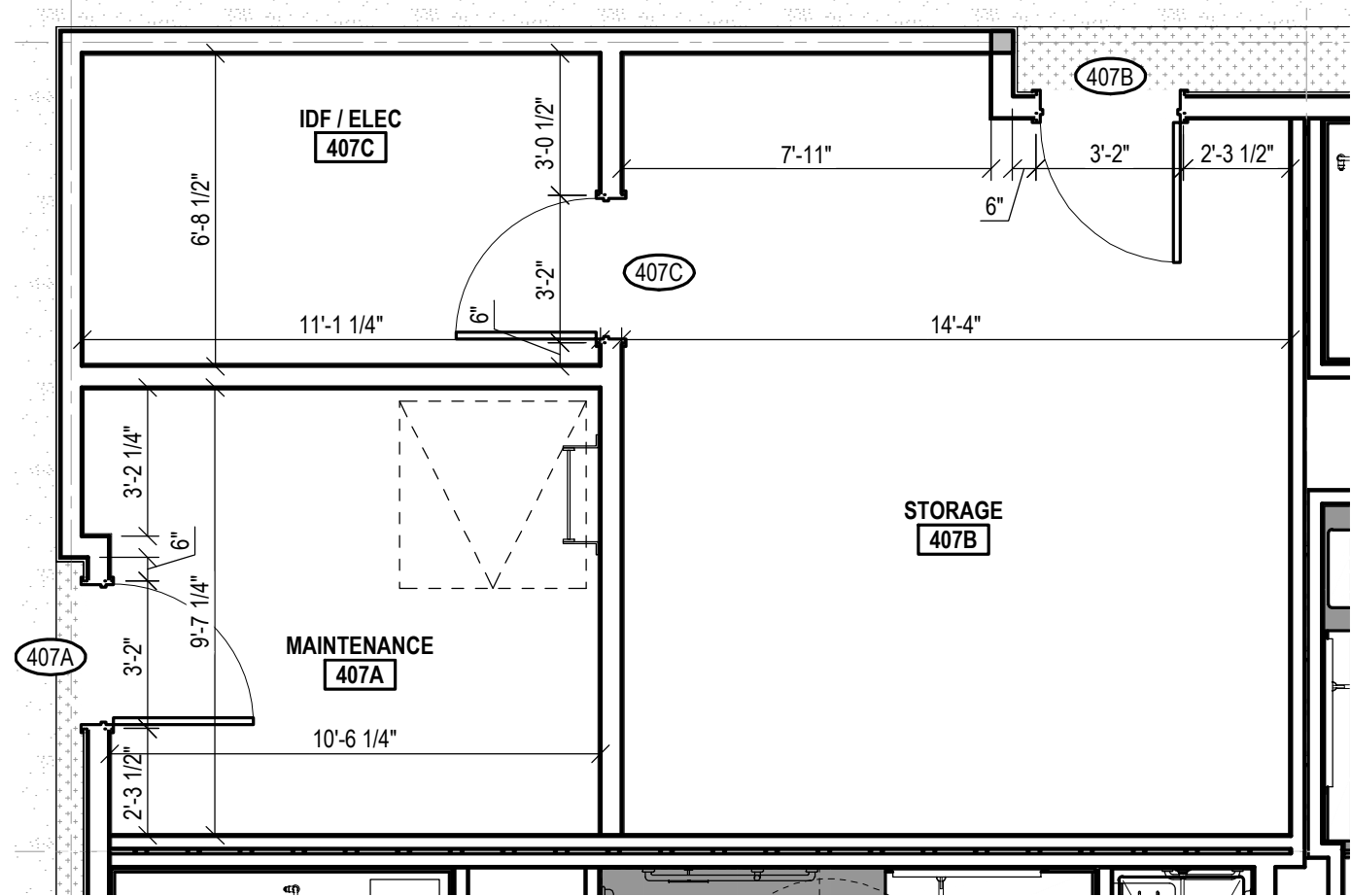
F
ENLARGED TYPICAL
GUESTROOM DOOR DROP RCP
SCALE: 1/4" = 1'-0"



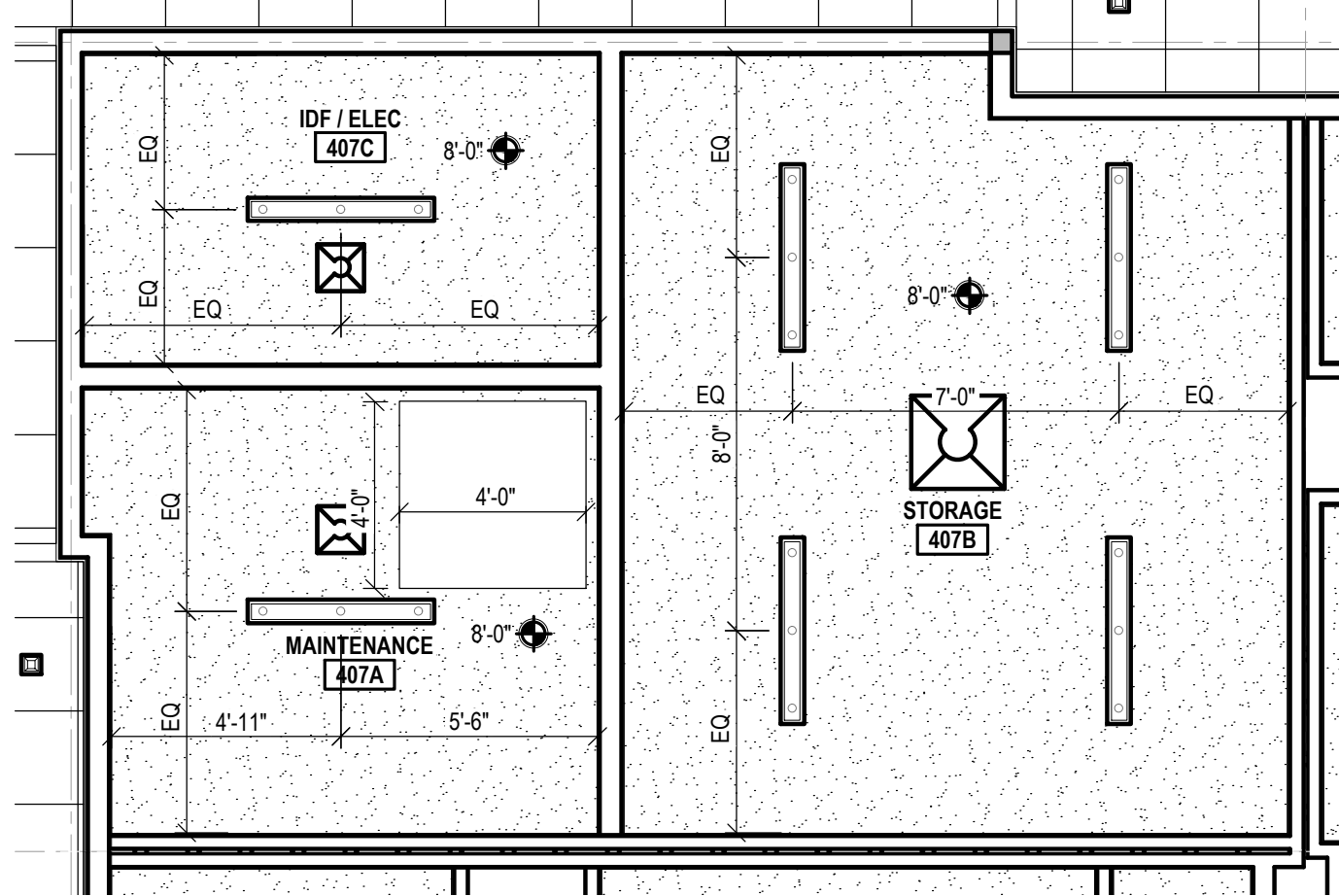
G
ENLARGED 3RD FLOOR
CORE AREA PLAN
SCALE: 1/4" = 1'-0"



H
ENLARGED 3RD FLOOR
CORE AREA RCP
SCALE: 1/4" = 1'-0"



I
ENLARGED 4TH FLOOR
CORE AREA PLAN
SCALE: 1/4" = 1'-0"



J
ENLARGED 4TH FLOOR
CORE AREA RCP
SCALE: 1/4" = 1'-0"

FINISH LEVEL		HOW TO ACHIEVE THE RESULT				
	FINAL APPEARANCE	JOINTS	INTERIOR ANGLES	ACCESSORIES	FASTENERS	SURFACE
5	VERY SMOOTH - NO TOOL MARKS OR RIDGES; APPLIED SKIM COAT OF COMPOUND	TAPED AS IN LEVEL #2, THEN COVERED WITH TWO SEPARATE COATS OF JOINT COMPOUND	TAPED AS IN LEVEL #2, THEN COVERED WITH ONE SEPARATE COAT OF JOINT COMPOUND	COVERED BY THREE SEPARATE COATS OF JOINT COMPOUND	COVERED BY THREE SEPARATE COATS OF JOINT COMPOUND	APPLY A THIN SKIM COAT OF JOINT COMPOUND (TROWEL APPLIED), OR A MATERIAL MANUFACTURED ESPECIALLY FOR THIS PURPOSE AND APPLIED IN ACCORDANCE WITH MANUFACTURER'S INSTRUCTIONS AND RECOMMENDATIONS. SHALL BE APPLIED TO THE ENTIRE SURFACE. THE SURFACES MUST BE SMOOTH AND FREE OF TOOL MARKS AND RIDGES. NOTE: PREPARED SURFACES SHOULD BE COATED WITH A DRYWALL PRIMER PRIOR TO THE APPLICATION OF FINAL FINISHES. REFER TO PAINTING AND WALLCOVERING SPECIFICATIONS.
	WHEN TO USE: USED WHERE GLOSS, SEMI-GLOSS, ENAMEL, OR FLAT PAINTS ARE SPECIFIED, WHERE SEVERE LIGHTING CONDITIONS OCCUR, OR WHERE THERE ARE LARGE HORIZONTAL (CEILING) OR VERTICAL (WALL) AREAS OF "UNBROKEN" GYPSUM BOARD WHICH MIGHT SHOW SURFACE DEFECTS SUCH AS JOINTS, FASTENERS, OR UNDULATIONS OF THE GYPSUM BOARD. THIS HIGHEST QUALITY FINISH IS THE MOST EFFECTIVE METHOD TO PROVIDE A UNIFORM SURFACE AND TO MINIMIZE THE POSSIBILITY OF JOINT PHOTOGRAPHING AND OF FASTENERS SHOWING THROUGH THE FINAL DECORATION.					
4	SMOOTH - NO TOOL MARKS OR RIDGES	TAPED AS IN LEVEL #2, THEN COVERED WITH TWO SEPARATE COATS OF JOINT COMPOUND	TAPED AS IN LEVEL #2, THEN COVERED WITH ONE SEPARATE COAT OF JOINT COMPOUND	COVERED BY THREE SEPARATE COATS OF JOINT COMPOUND	COVERED BY THREE SEPARATE COATS OF JOINT COMPOUND	SMOOTH AND FREE OF TOOL MARKS AND RIDGES. NOTE: PREPARED SURFACE SHOULD BE COATED WITH A DRYWALL PRIMER PRIOR TO THE APPLICATION OF FINAL FINISHES. REFER TO PAINTING AND WALLCOVERING SPECIFICATIONS.
	WHEN TO USE: USED WHERE FLAT PAINTS, LIGHT TEXTURES, OR WALLCOVERINGS ARE TO BE APPLIED. IN CRITICAL LIGHTING AREAS, FLAT PAINTS APPLIED OVER LIGHT TEXTURES TEND TO REFLECT JOINT PHOTOGRAPHING. GLOSS, SEMI-GLOSS, AND ENAMEL ARE NOT RECOMMENDED OVER THIS LEVEL OF FINISH. THE WEIGHT, TEXTURE AND SHEEN OF WALLCOVERINGS APPLIED OVER THIS LEVEL OF FINISH SHOULD BE CAREFULLY EVALUATED. JOINTS AND FASTENERS MUST BE ADEQUATELY CONCEALED IF THE WALLCOVERING MATERIAL IS LIGHTWEIGHT, CONTAINS LIMITED PATTERN, HAS A GLOSS FINISH, OR ANY COMBINATION OF THESE FEATURES ARE PRESENT. UNBROKEN VINYL WALLCOVERINGS ARE NOT RECOMMENDED OVER THIS LEVEL OF FINISH.					
3	SMOOTH - NO TOOL MARKS OR RIDGES	TAPED AS IN LEVEL #2, THEN COVERED WITH ONE SEPARATE COAT OF JOINT COMPOUND	TAPED AS IN LEVEL #2, THEN COVERED WITH ONE SEPARATE COAT OF JOINT COMPOUND	COVERED BY TWO SEPARATE COATS OF JOINT COMPOUND	COVERED BY TWO SEPARATE COATS OF JOINT COMPOUND	SMOOTH AND FREE OF TOOL MARKS AND RIDGES. NOTE: PREPARED SURFACE SHOULD BE COATED WITH A DRYWALL PRIMER PRIOR TO THE APPLICATION OF FINAL FINISHES. REFER TO PAINTING AND WALLCOVERING SPECIFICATIONS.
	WHEN TO USE: USED IN APPEARANCE AREAS WHICH ARE TO RECEIVE HEAVY OR MEDIUM TEXTURE (SPRAY OR HAND APPLIED) FINISHES BEFORE FINAL PAINTING, OR WHERE HEAVY GRADE WALLCOVERINGS ARE TO BE APPLIED AS THE FINAL DECORATION. THIS LEVEL OF FINISH IS NOT RECOMMENDED WHERE SMOOTH PAINTED SURFACES, OR LIGHT TO MEDIUM WEIGHT WALLCOVERINGS ARE SPECIFIED.					
2	LIGHT TOOL MARKS AND RIDGES	TAPE EMBEDDED IN JOINT COMPOUND AND WIRED WITH A JOINT KNIFE, LEAVING A THIN COAT OF COMPOUND OVER TAPE	TAPE EMBEDDED IN JOINT COMPOUND AND WIRED WITH A JOINT KNIFE, LEAVING A THIN COAT OF COMPOUND OVER TAPE	COVERED BY ONE SEPARATE COAT OF JOINT COMPOUND	COVERED BY ONE SEPARATE COAT OF JOINT COMPOUND	FREE OF EXCESS JOINT COMPOUND, TOOL MARKS AND RIDGES ARE ACCEPTABLE. JOINT COMPOUND APPLIED OVER THE BODY OF TAPE AT THE TIME OF TAPE EMBEDMENT SHALL BE CONSIDERED A SEPARATE COAT OF JOINT COMPOUND AND SHALL SATISFY THE CONDITIONS OF THIS LEVEL.
	WHEN TO USE: USED WHERE WATER-RESISTANT GYPSUM BACKING BOARD (ASTM C539) IS USED AS A SUBSTRATE FOR TILE. ALSO USED IN GARAGES, WAREHOUSE STORAGE AREAS, AND SIMILAR AREAS WHERE SURFACE APPEARANCE IS NOT OF PRIMARY CONCERN.					
1	TOOL MARKS AND RIDGES	TAPE SET IN JOINT COMPOUND	TAPE SET IN JOINT COMPOUND	OPTIONAL - COVERED BY ONE SEPARATE COAT OF JOINT COMPOUND	OPTIONAL - COVERED BY ONE SEPARATE COAT OF JOINT COMPOUND	FREE OF EXCESS JOINT COMPOUND; TOOL MARKS AND RIDGES ARE ACCEPTABLE.
	WHEN TO USE: USED IN PLENUM AREAS ABOVE CEILINGS, IN ATTICS, IN AREAS WHERE THE ASSEMBLY WOULD GENERALLY BE CONCEALED OR IN BUILDING SERVICE CORRIDORS, AND OTHER AREAS NOT NORMALLY OPEN TO PUBLIC VIEW. ACCESSORIES OPTIONAL AT DESIGNER'S DISCRETION IN CORRIDORS AND OTHER AREAS WITH PEDESTRIAN TRAFFIC. SOME DEGREE OF SOUND AND SMOKE CONTROL IS PROVIDED. IN SOME GEOGRAPHIC AREAS, THIS LEVEL IS REFERRED TO AS "FIRE-TAPING," WHERE A FIRE-RESISTANCE RATING IS REQUIRED FOR THE GYPSUM BOARD ASSEMBLY. DETAILS OF CONSTRUCTION SHALL BE IN ACCORDANCE WITH REPORTS OF FIRE TESTS OF ASSEMBLIES THAT HAVE MET THE FIRE-RATING REQUIREMENT.					
0	UNFINISHED	NO TAPING, FINISHING, OR ACCESSORIES REQUIRED				
	WHEN TO USE: THIS LEVEL OF FINISH MAY BE USEFUL IN TEMPORARY CONSTRUCTION OR WHENEVER THE FINAL DECORATION HAS NOT BEEN DETERMINED					
DRYWALL FINISHING GENERAL NOTES:						
A. THE SHADED ROW ABOVE INDICATES THE TYPICAL MINIMUM LEVEL OF FINISH, REFER TO THE DRAWINGS AND THE "WHERE TO USE" SECTION OF THIS TABLE TO DETERMINE IF OTHER LEVELS OF FINISH ARE REQUIRED FOR PORTIONS OF THE WORK.						
B. PROVIDE ALL REQUIRED ACCESSORIES (METAL OR PLASTIC BEADS, TRIM, OR MOLDING) REQUIRED TO PROTECT OR CONCEAL CORNERS, EDGES, OR ABUTMENTS OF THE GYPSUM BOARD CONSTRUCTION.						
C. PROVIDE DRYWALL PRIMER TO FILL THE PORES AND EQUALIZE THE SUCTION DIFFERENCE BETWEEN GYPSUM BOARD SURFACE PAPER AND THE COMPOUND USED ON FINISHED JOINTS, ANGLES, FASTENER HEADS, AND ACCESSORIES AS REQUIRED BY THE PAINTING AND WALLCOVERING SPECIFICATIONS.						
D. PROVIDE WHITE, SELF-SEIZING, WATER BASE, "UNIVERSAL" (ALL PURPOSE) WALLCOVERING PRIMER WHERE WALLCOVERING IS SPECIFIED AS THE FINAL DECORATION.						

BASED ON GA-214-07 "RECOMMENDED LEVELS OF GYPSUM BOARD FINISH" AND GA-214-07-19 "MATRIX EDITION - RECOMMENDED LEVELS OF GYPSUM BOARD FINISH" AS PUBLISHED BY THE GYPSUM ASSOCIATION (<http://www.gypsum.org/>).

REFER TO THESE DOCUMENTS FOR ADDITIONAL INFORMATION.

SOUND OR THERMAL INSULATION IS TYPICALLY REQUIRED IN ALL WALLS EXCEPT:

1. GUEST ROOM INTERIOR CLOSET WALLS
2. VENDING ROOM WALLS NOT SHARED WITH GUEST ROOMS
3. GUEST LAUNDRY WALLS NOT SHARED WITH GUEST ROOMS
4. STORAGE ROOM AND SHAFT WALLS NOT SHARED WITH GUEST ROOMS

07540 - CLASS B FIRE-TESTED MEMBRANE ROOF SYSTEM (PER UL TUBES#16)

07210 - TAPERED (1 1/2" THICK MIN.) RIGID INSULATION (R-7.5)

06115 - 19/32" THICK (MINIMUM) EXTERIOR GRADE PLYWOOD SHEATHING WITH H-CLIPS

ROOF-CEILING ASSEMBLY (TYPICAL)

PRE-ENGINEERED WOOD ROOF TRUSSES (REFER TO STRUCTURAL SHEETS FOR SPACING)

ANCHOR ENDS OF ROOF TRUSSES TO WALL TOP PLATE WITH SIMPSON HURRICANE ANCHORS

FILL CAVITY WITH BLOWN CELLULOSE INSULATION

1/2" DEEP x 26 GA. RESILIENT CHANNEL AT 16" O.C.

5/8" THICK FIRE RATED GYPSUM BOARD

FIRE RATING

U.L. No. R1 P522 1-HOUR RATING STC

SCALE: 1" = 1'-0"

AT LOW-SLOPED MEMBRANE ROOFS

FINISH FLOOR - REFER TO FINISH SCHEDULE

1 1/2" THICK CEMENTITIOUS FLOOR TOPPING

66115 - 3/4" THICK T&G PLYWOOD
SUBFLOOR, GLUED AND SCREW ATTACHED

2x10 WOOD FLOOR JOISTS (REFER TO
STRUCTURAL SHEETS FOR SPACING)

FLOOR-CEILING
ASSEMBLY

F2

U.L. No.
RATING
STC

L501
1-HOUR
N/A

07210 - 3 1/2" THICK SOUND
ATTENUATION INSULATION

1/2" DEEP x 26 GA. RESILIENT
CHANNEL AT 16" O.C.

09250 - (1) LAYER 5/8" THICK
FIRE RATED GYPSUM BOARD

SUSPENDED CEILING GRID

ACOUTSUL CEILING TILE - OR SUSPENDED
GYPSUM CEILING (REFER TO FINISH SCHEDULE)

FINISH FLOOR - REFER TO FINISH SCHEDULE

1 1/2" THICK CEMENTITIOUS FLOOR TOPPING

66115 - 3/4" THICK T&G PLYWOOD
SUBFLOOR, GLUED AND SCREW ATTACHED

PRE-ENGINEERED WOOD FLOOR
TRUSSES (REFER TO STRUCTURAL
SHEETS FOR SPACING)

FLOOR-CEILING
ASSEMBLY (TYPICAL)

F1

U.L. No.
RATING
STC

L528
1-HOUR
N/A

07210 - 3 1/2" THICK SOUND
ATTENUATION INSULATION

FILL CAVITY WITH BLOWN
ANGLOR FIBERGLASS BATT
TRUSSES TO WALL TOP
PLATE WITH SIMPSON
HURRICANE ANCHORS

1/2" DEEP x 26 GA. RESILIENT
CHANNEL AT 16" O.C.

09250 - (1) LAYER 5/8" THICK
FIRE RATED GYPSUM BOARD

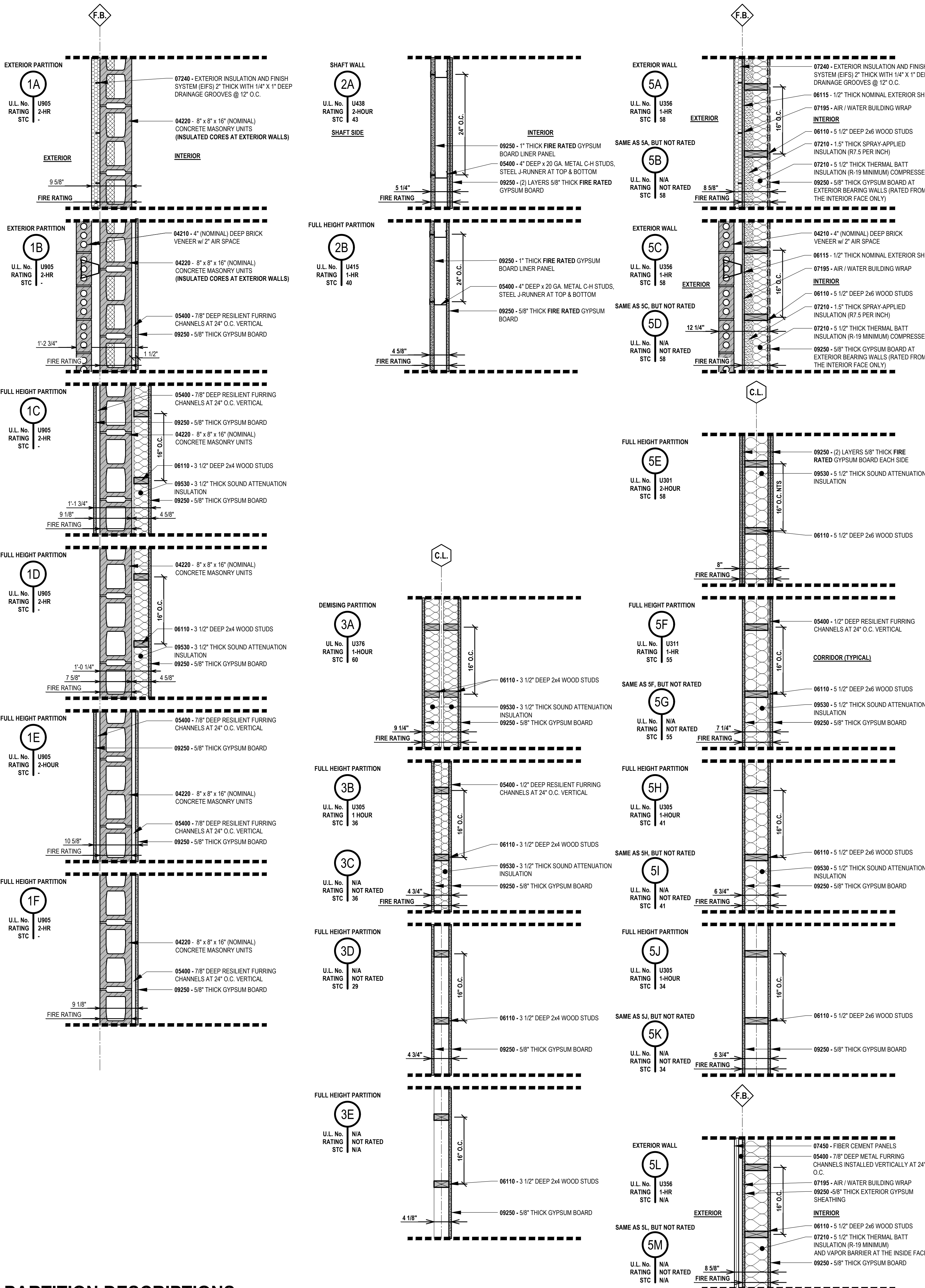
8 MIL VAPOR BARRIER AT BOTTOM
OF JOISTS AT POOL CEILING

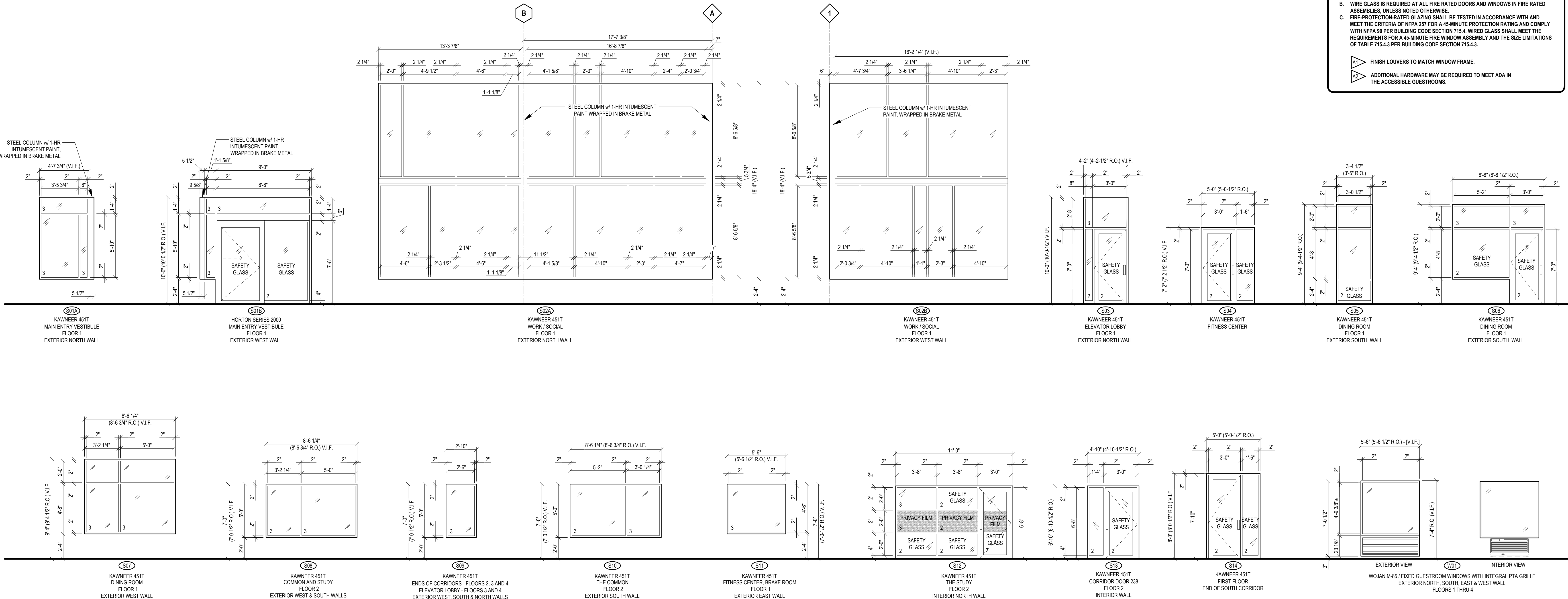
FIRE RATING

NON-FIRE
RATED

SCALE: 1" = 1'-0"

SCALE: 1" = 1'-0"





WINDOW SCHEDULE NOTES

GLAZING SCHEDULE (REFER TO DOOR ELEVATIONS, FRAME ELEVATIONS, AND WINDOW ELEVATIONS FOR LOCATIONS)

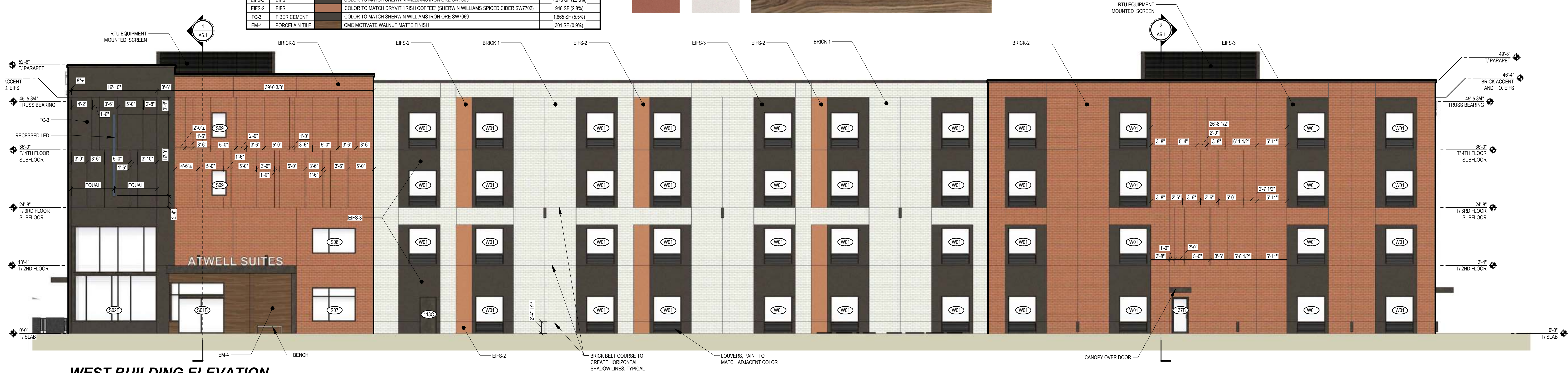
1. 1/4" THICK TEMPERED GLASS, CLEAR
2. 3/4" OR 1" THICK INSULATED GLASS, TEMPERED, LOW-E, CLEAR
3. 3/4" OR 1" THICK INSULATED GLASS, LOW-E, CLEAR
4. SPANDREL GLASS

GLAZING GENERAL NOTES:

- A. SAFETY GLASS - TEMPERED GLASS IS REQUIRED FOR ALL GLAZING IN SWINGING DOORS, GLAZING WITHIN 24" OF THE EDGE OF EITHER SIDE OF A SWINGING DOOR, OTHER AREAS REQUIRED BY THE BUILDING CODE, OR AS INDICATED ON THE DOOR ELEVATIONS, FRAME ELEVATIONS, AND WINDOW ELEVATIONS.
- B. WIRE GLASS IS REQUIRED AT ALL FIRE RATED DOORS AND WINDOWS IN FIRE RATED ASSEMBLIES, UNLESS NOTED OTHERWISE.
- C. FIRE-PROTECTION RATED GLAZING SHALL BE TESTED IN ACCORDANCE WITH AND MEET THE CRITERIA OF NFPA 201 FOR A 45-MINUTE PROTECTION RATING AND COMPLY WITH NFPA 90 PER BUILDING CODE SECTION 715.4. WIRE GLASS SHALL MEET THE REQUIREMENTS FOR A 45-MINUTE FIRE WINDOW ASSEMBLY AND THE SIZE LIMITATIONS OF TABLE 715.4.3 PER BUILDING CODE SECTION 715.4.3.

- A. FINISH LOUVERS TO MATCH WINDOW FRAME.
- A. ADDITIONAL HARDWARE MAY BE REQUIRED TO MEET ADA IN THE ACCESSIBLE GUESTROOMS.

EXTERIOR FINISH LEGEND			
TAG #	MATERIAL	COLOR	TOTAL SF = 34,043 SF
BRICK-1	UTILITY BRICK	COLOR TO MATCH DRYVIT "DOVER SKY" (SHERWIN WILLIAMS CHEVOT SW9503)	9,596 SF (28.2%)
BRICK-2	UTILITY BRICK	COLOR TO MATCH DRYVIT "IRISH COFFEE" (SHERWIN WILLIAMS SPICED CIDER SW7702)	13,660 SF (40.1%)
EIFS-3	EIFS	COLOR TO MATCH SHERWIN WILLIAMS IRON ORE SW7069	7,670 SF (22.5%)
EIFS-2	EIFS	COLOR TO MATCH DRYVIT "IRISH COFFEE" (SHERWIN WILLIAMS SPICED CIDER SW7702)	948 SF (2.8%)
FC-3	FIBER CEMENT	COLOR TO MATCH SHERWIN WILLIAMS IRON ORE SW7069	1,865 SF (5.5%)
EM-4	PORCELAIN TILE	CMC MOTIVATE WALNUT MATTE FINISH	301 SF (0.9%)



WEST BUILDING ELEVATION

SCALE: 1/8" = 1'-0"



EAST BUILDING ELEVATION

SCALE: 1/8" = 1'-0"



NORTH BUILDING ELEVATION

SCALE: 1/8" = 1'-0"

SOUTH BUILDING ELEVATION

SCALE: 1/8" = 1'-0"



ISO VIEW: NORTHWEST CORNER LOOKING SOUTHEAST



ISO VIEW: NORTHEAST CORNER LOOKING SOUTHWEST



ISO VIEW: SOUTHWEST CORNER LOOKING NORTHEAST



ISO VIEW: SOUTHEAST CORNER LOOKING NORTHWEST

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ISOMETRIC VIEWS

ISSUE / REVISION DATE:
05/04/2022 OWNER REVIEW
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A5.2

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3D VIEWS

DATE / REVISION DATE:	
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A5.3



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3D VIEWS

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A5.4



3D VIEW: AERIAL VIEW OF INSIDE CORNER



3D VIEW: EYE LEVEL LOOKING AT INSIDE CORNER

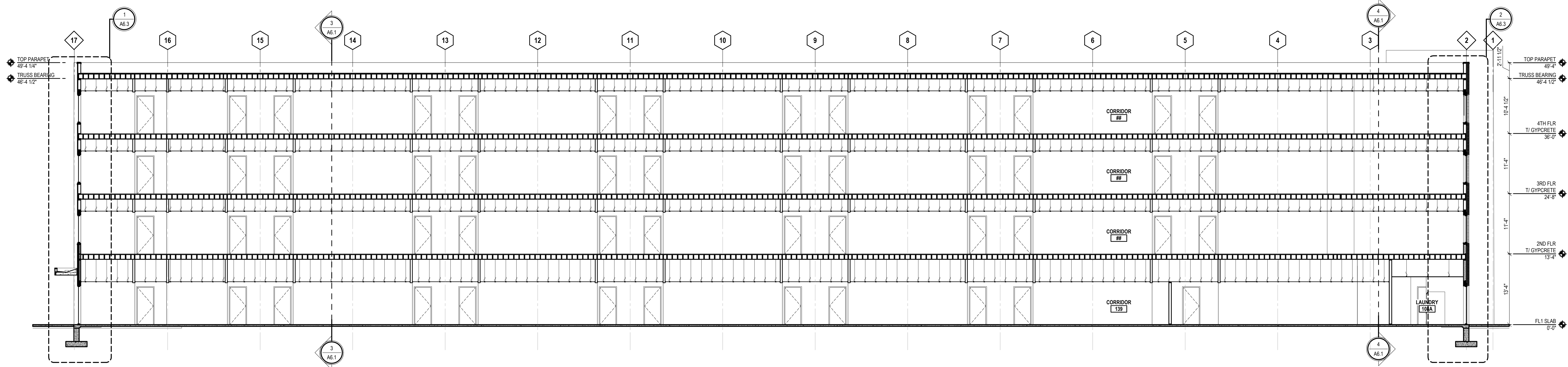


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3D VIEWS

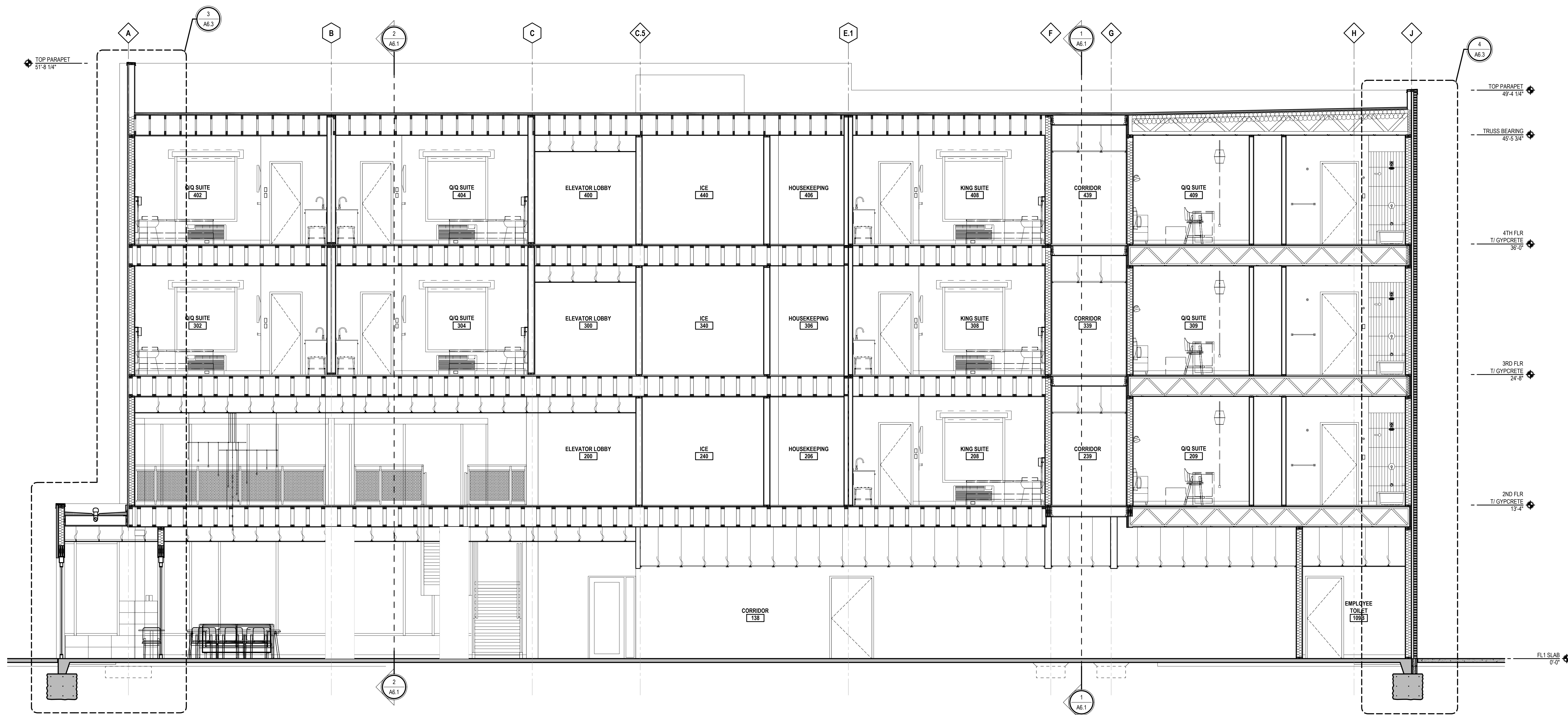
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A5.5



1 LONGITUDINAL SECTION
SCALE: 1/8" = 1'-0"



4 BUILDING CROSS SECTION
SCALE: 1/4" = 1'-0"

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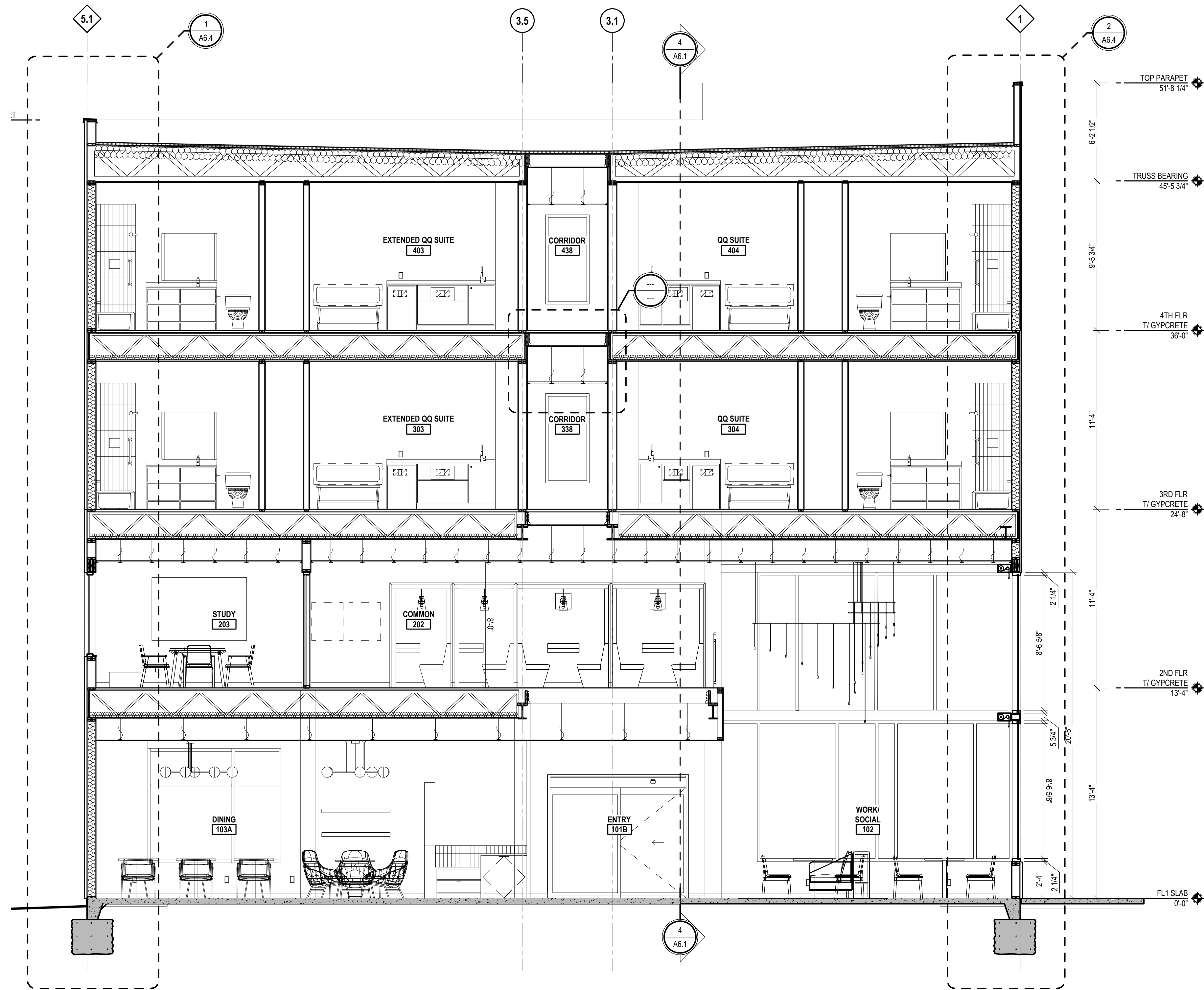
BUILDING SECTIONS

ISSUE / REVISION DATE:
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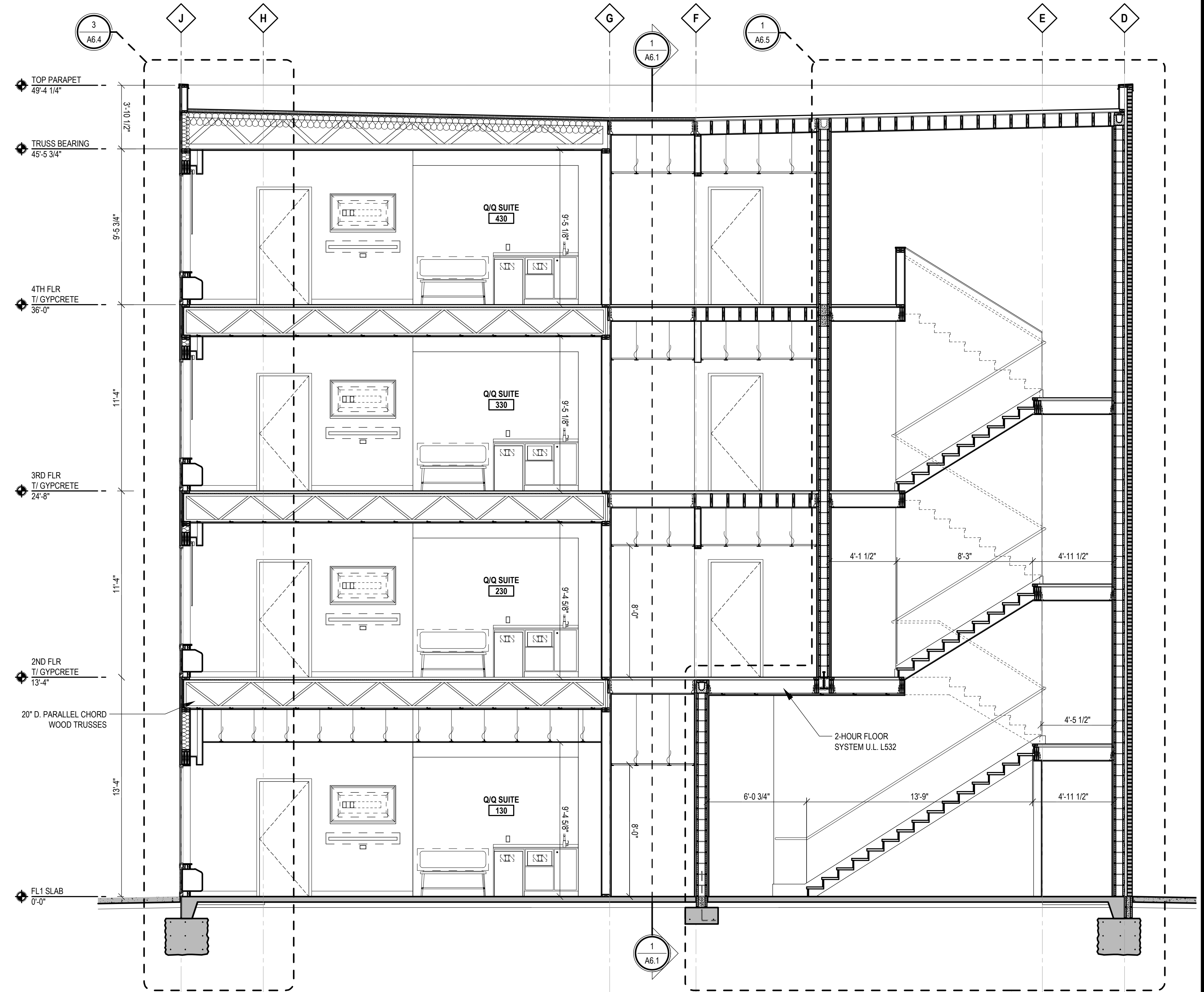
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A6.1

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2 BUILDING CROSS SECTION
SCALE: 1/4" = 1'-0"



3 BUILDING CROSS SECTION
SCALE: 1/4" = 1'-0"

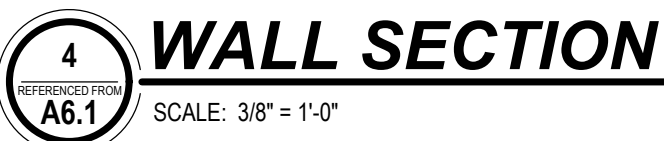
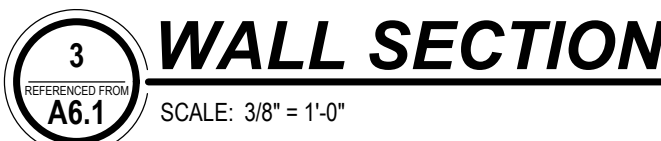
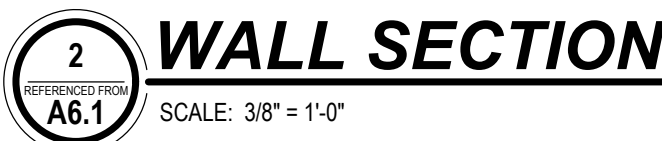
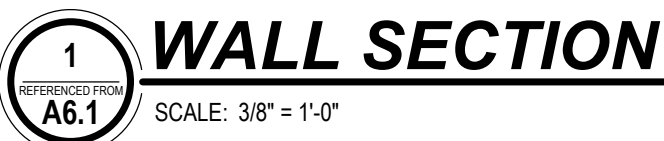


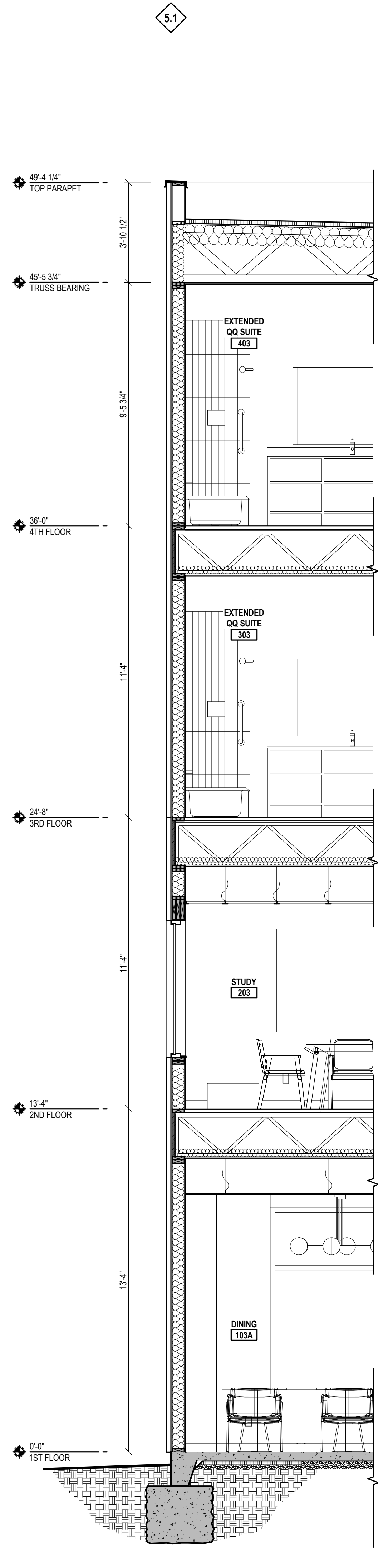
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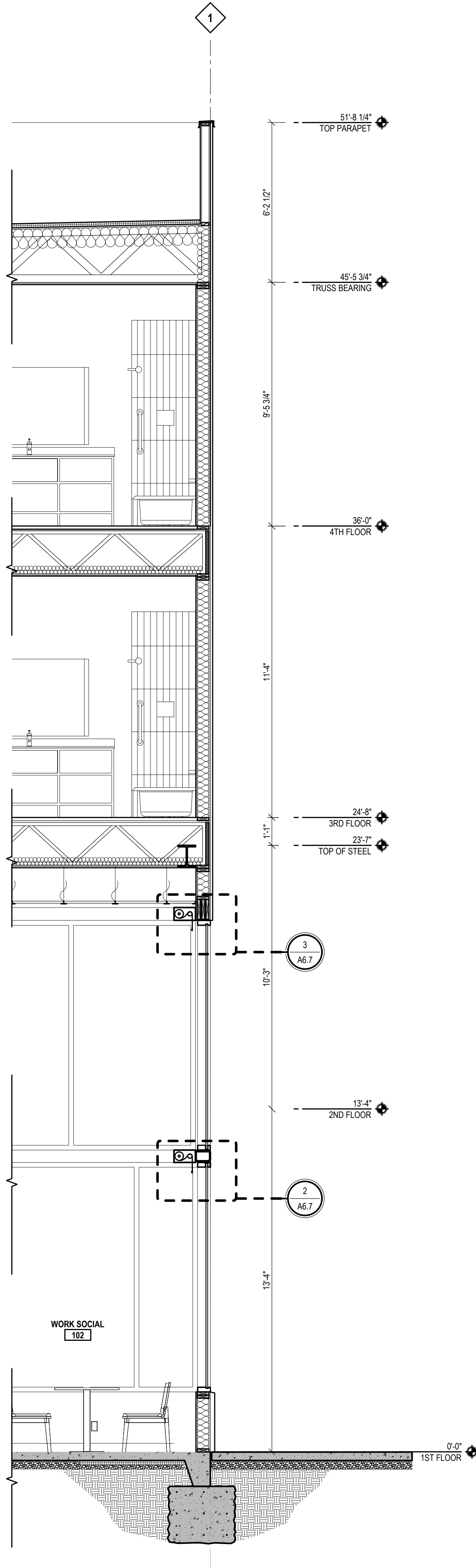
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A6.3

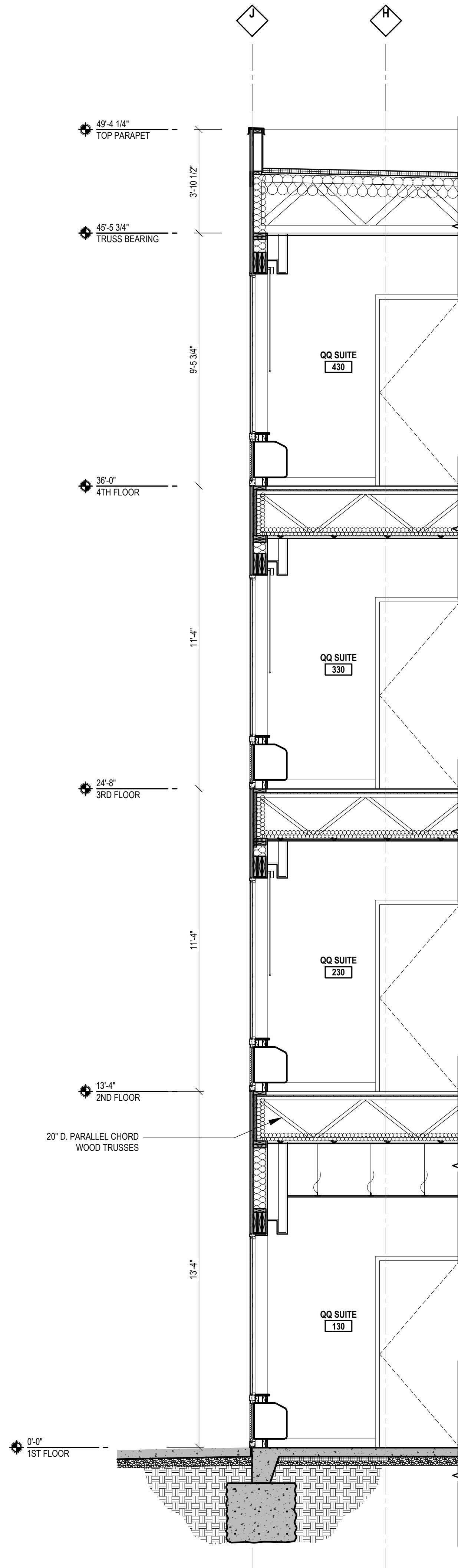




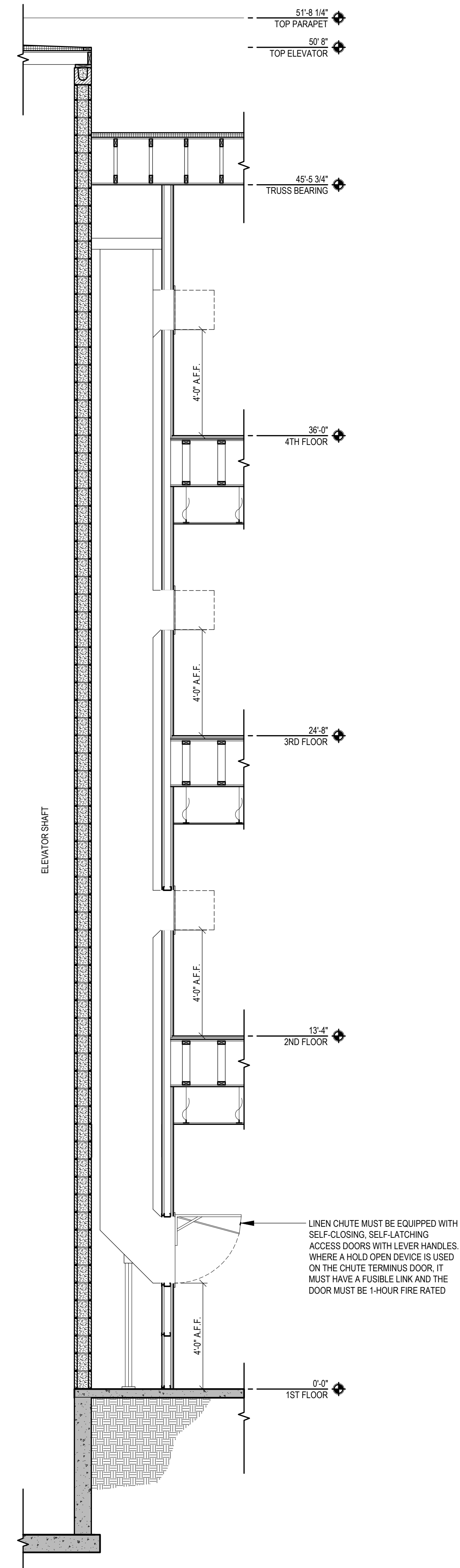
1 WALL SECTION
SCALE: 3/8" = 1'-0"



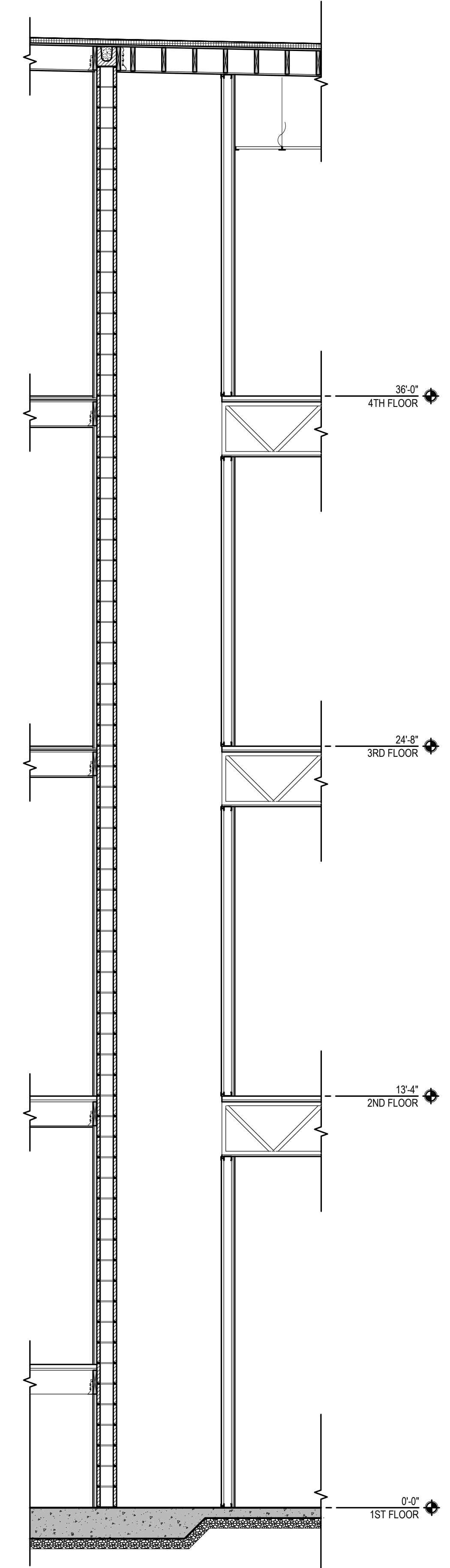
2 WALL SECTION
SCALE: 3/8" = 1'-0"



3 WALL SECTION
SCALE: 3/8" = 1'-0"



4 LINEN CHUTE SECTION
SCALE: 3/8" = 1'-0"



5 HVAC SECTION
SCALE: 3/8" = 1'-0"

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BUILDING WALL SECTIONS

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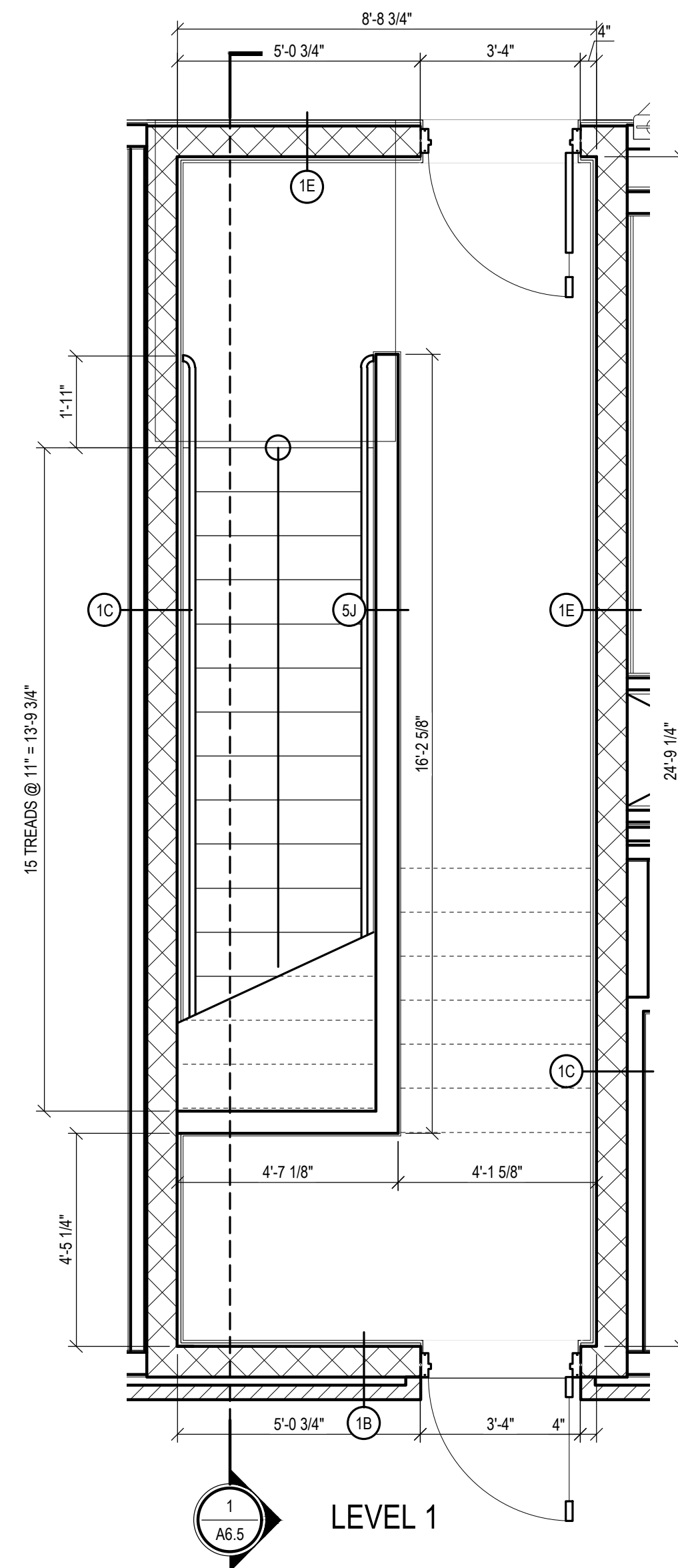
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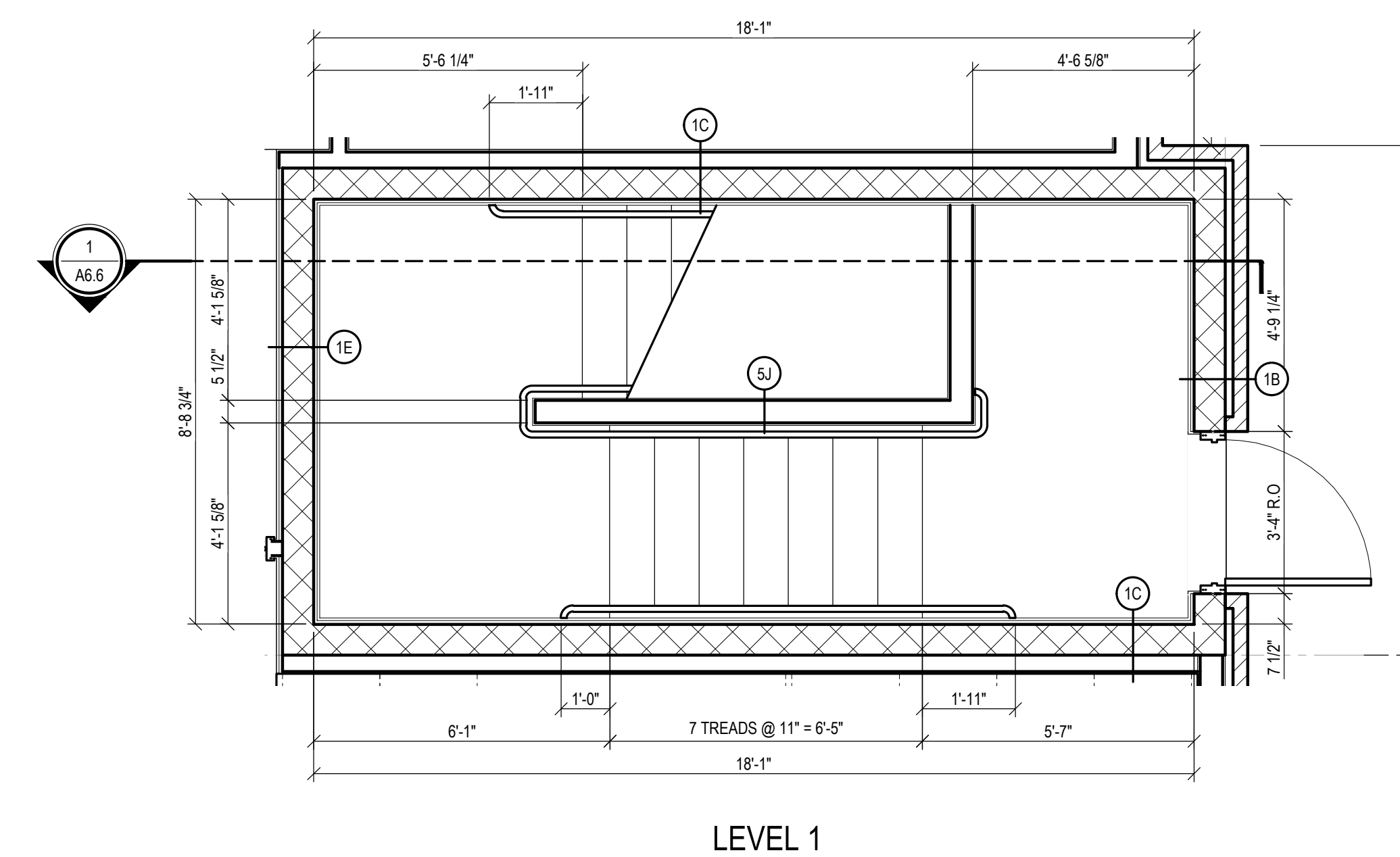
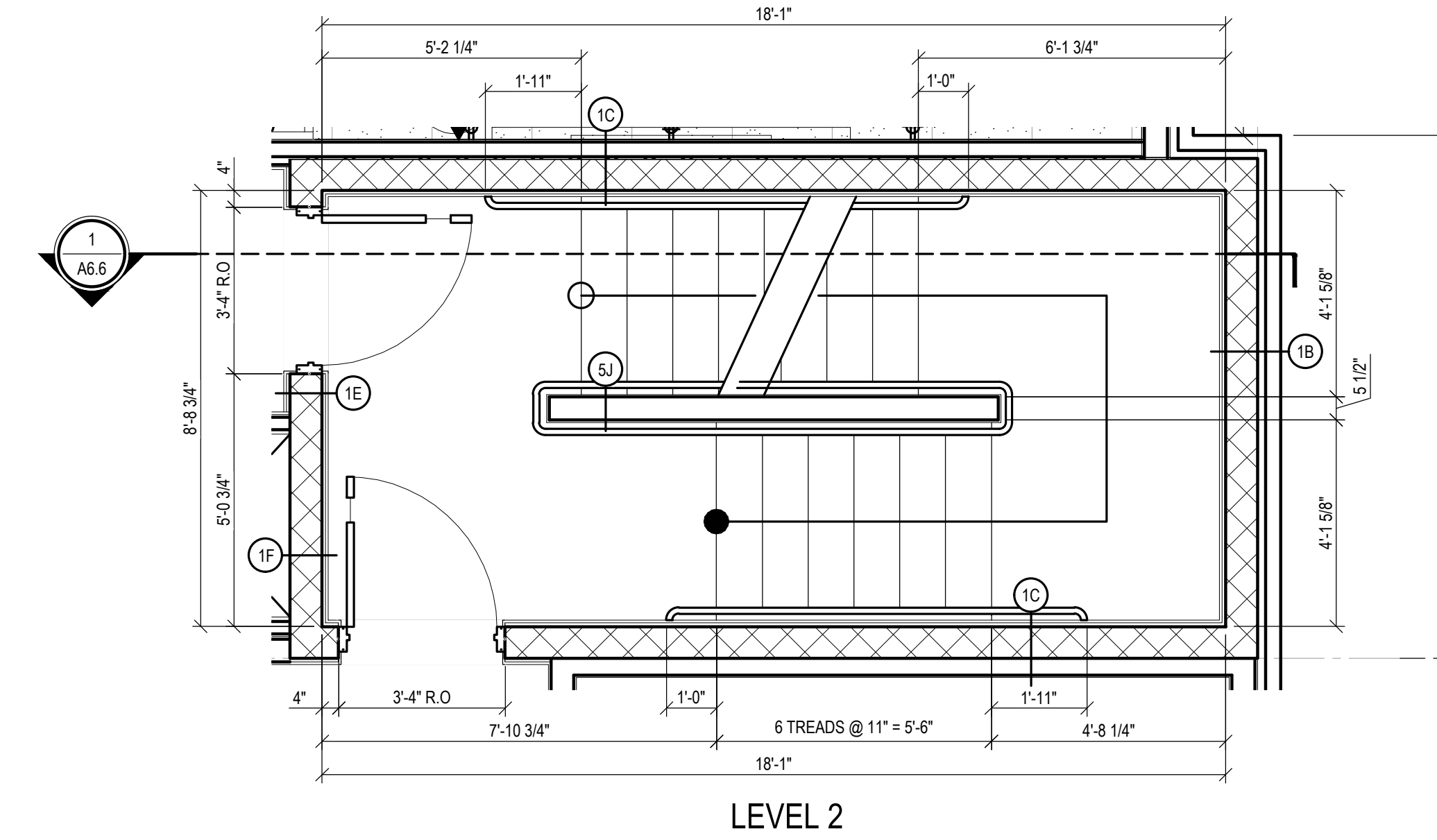
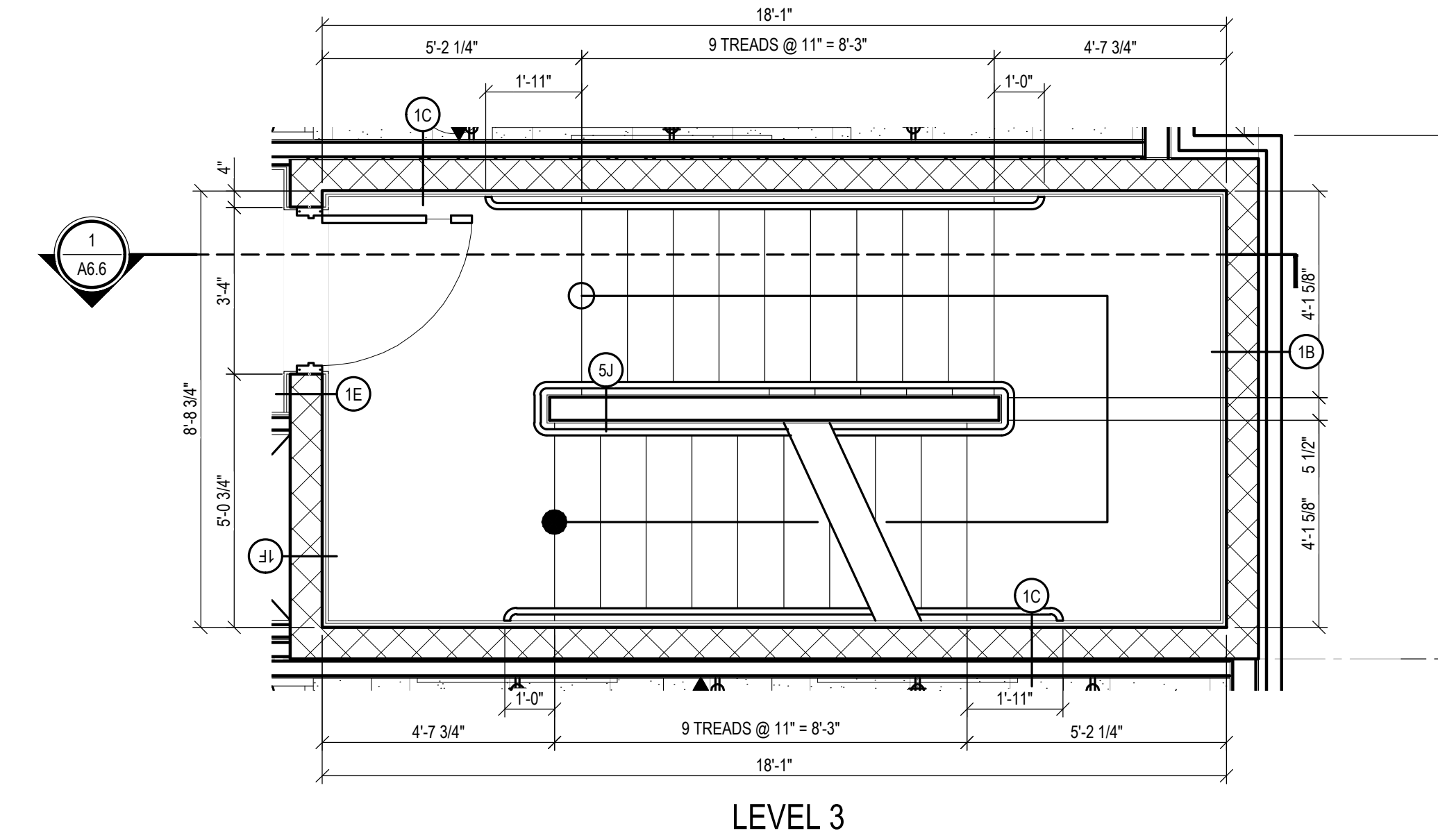
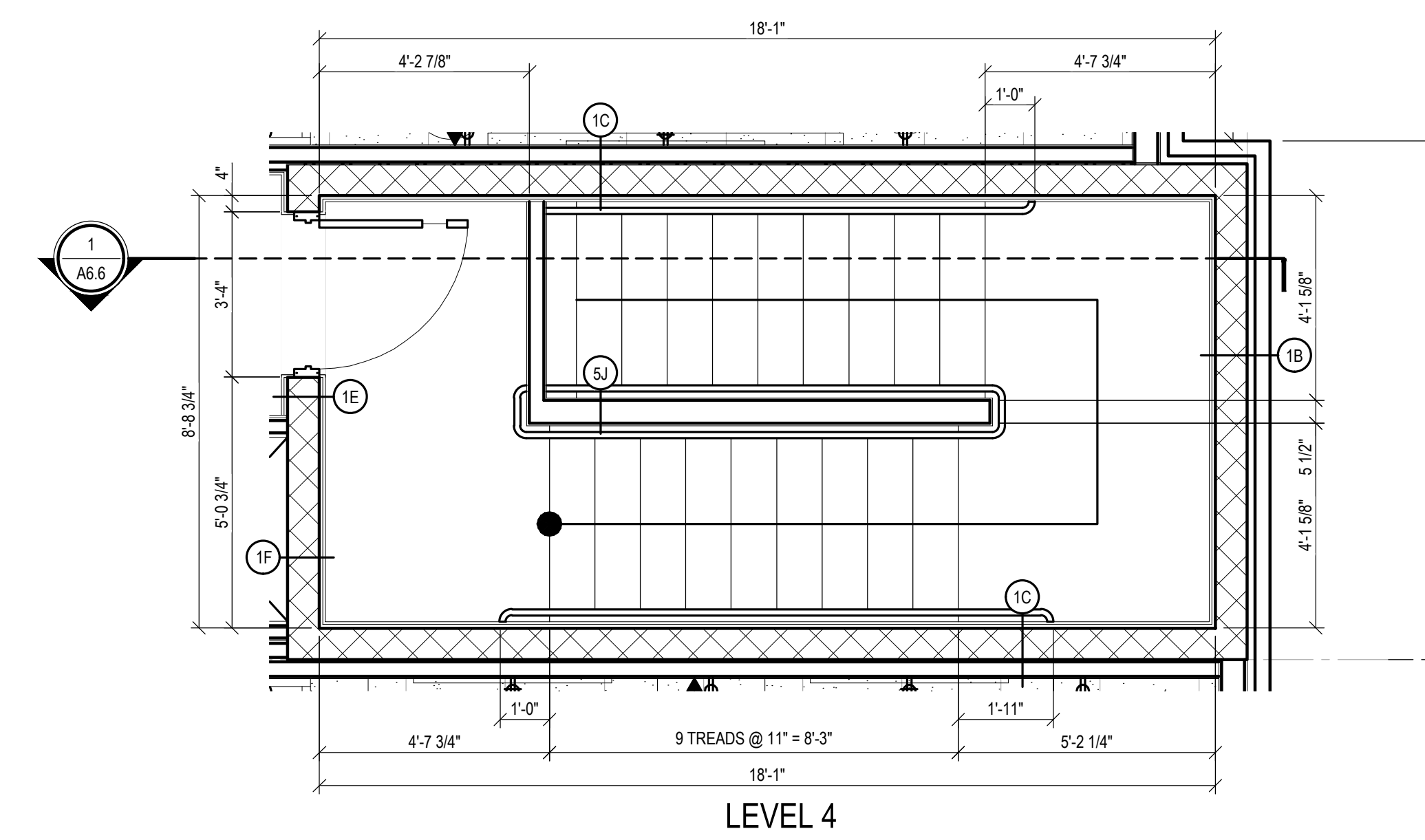
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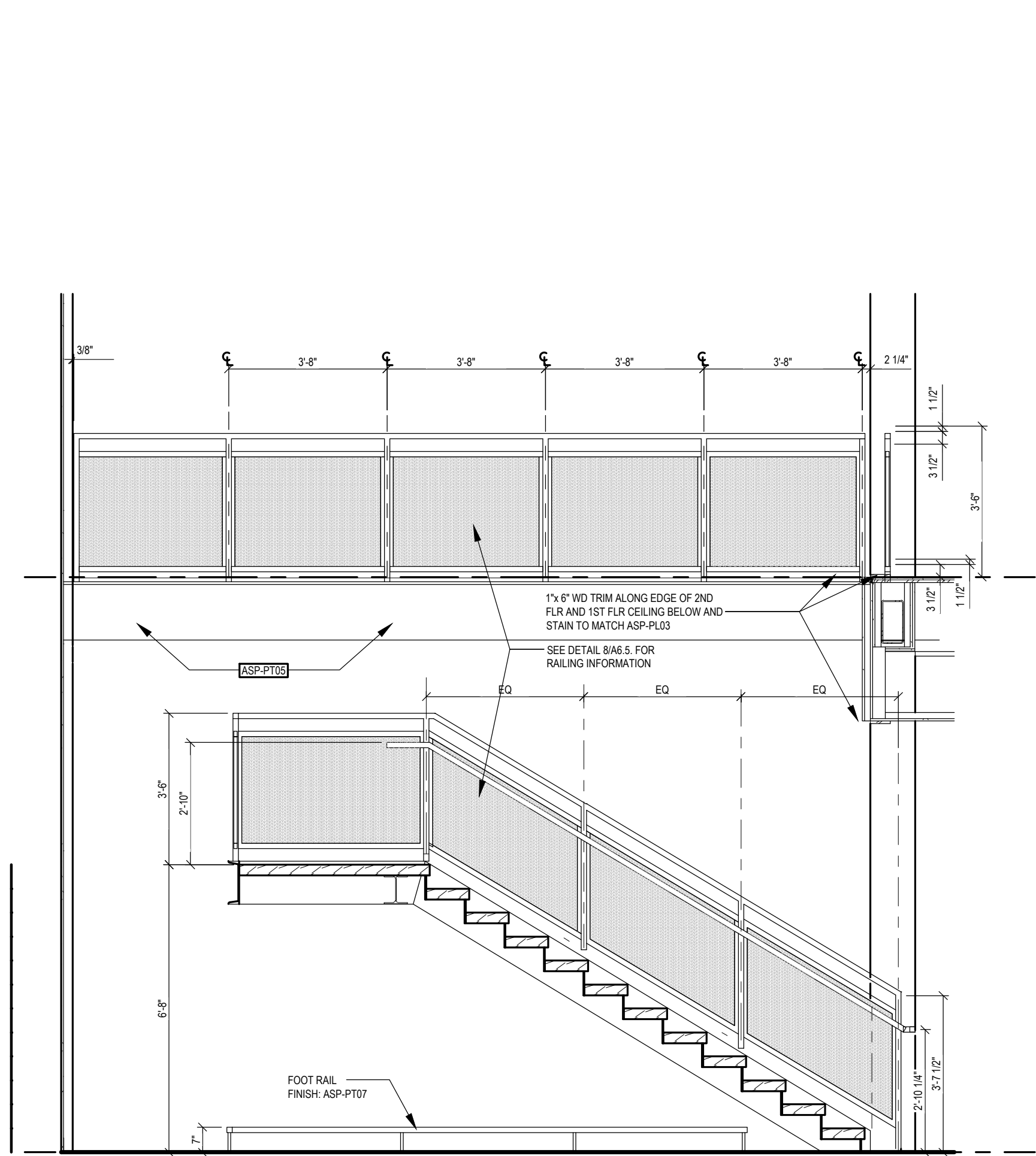
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A6.4

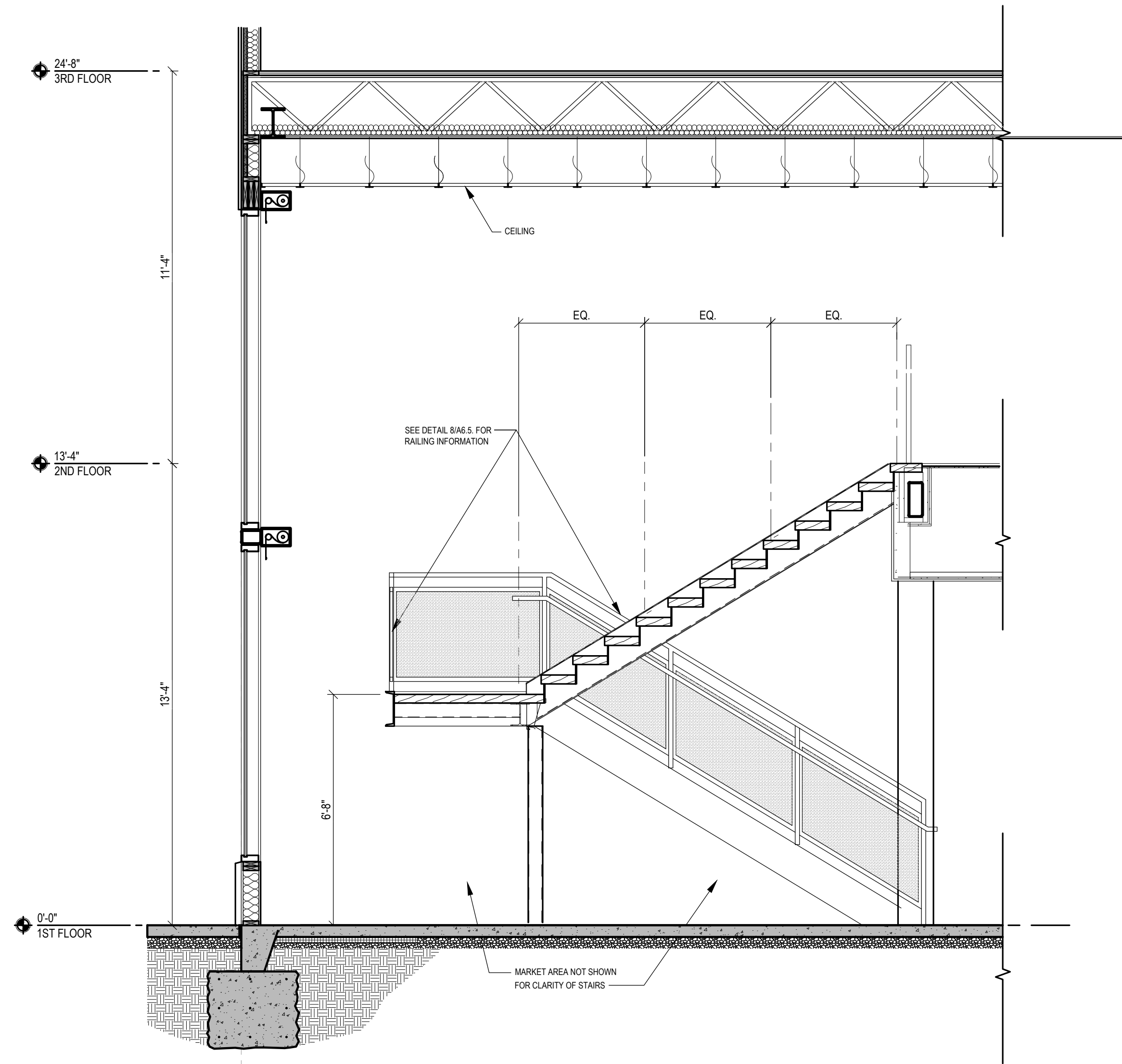
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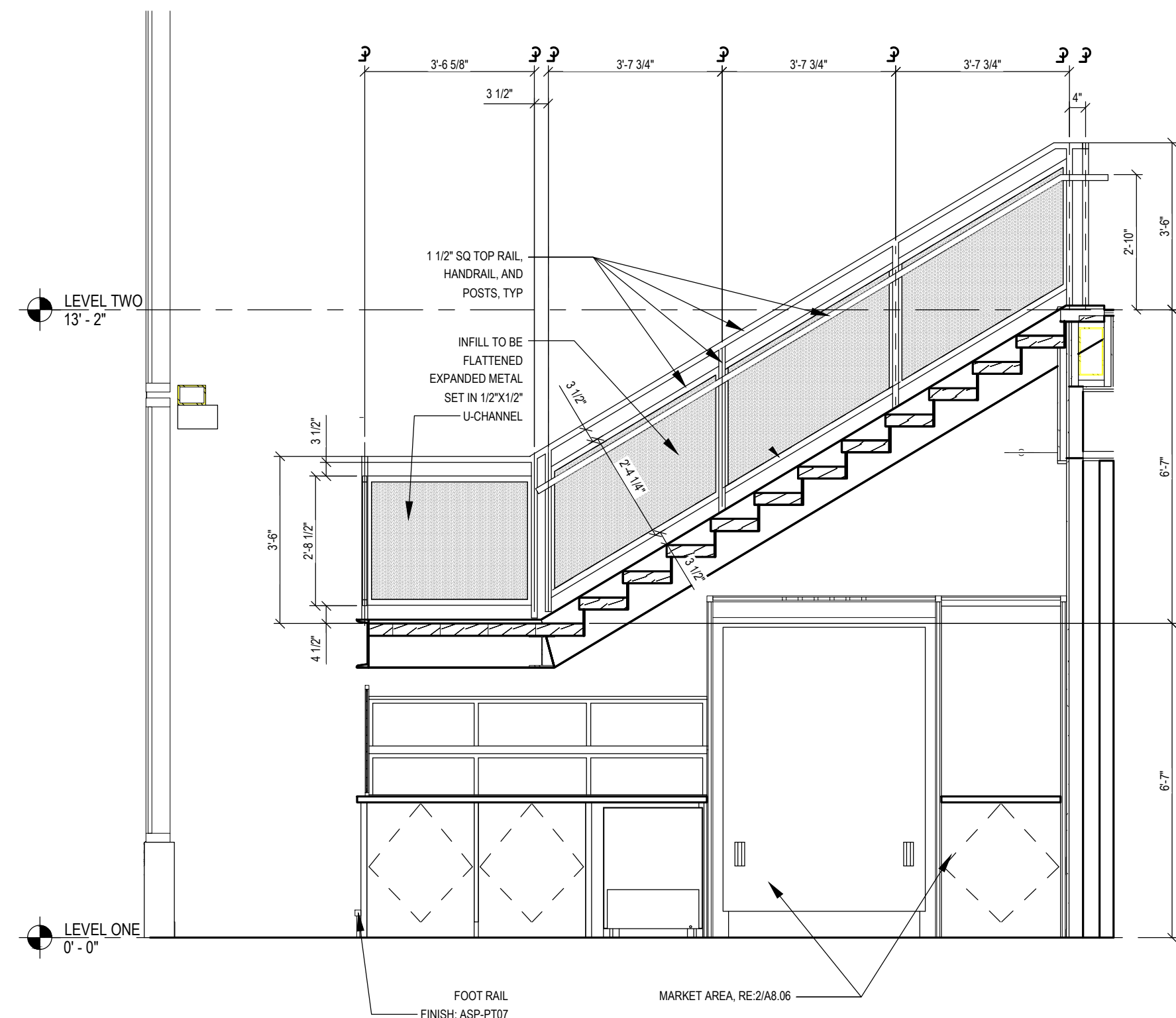




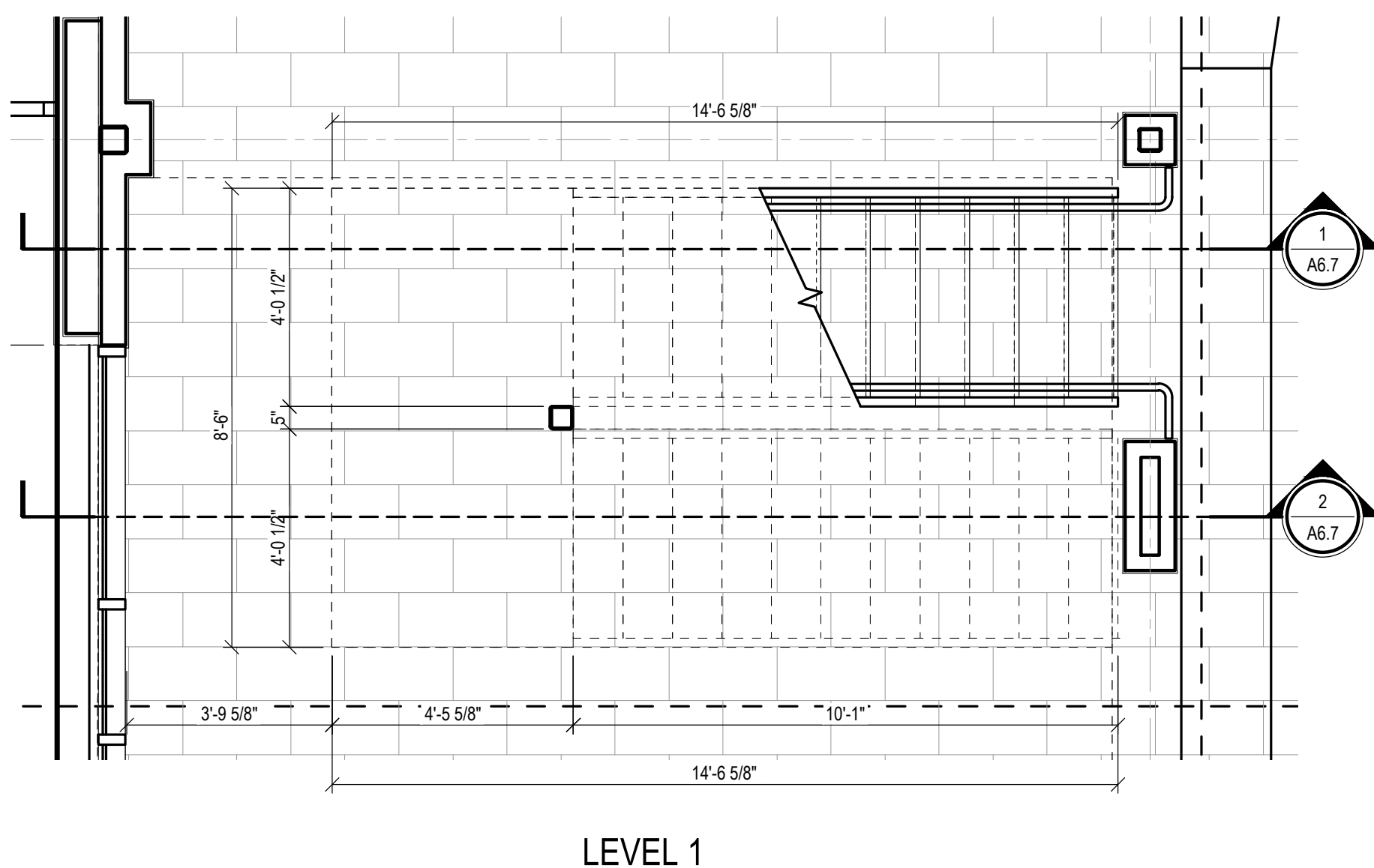
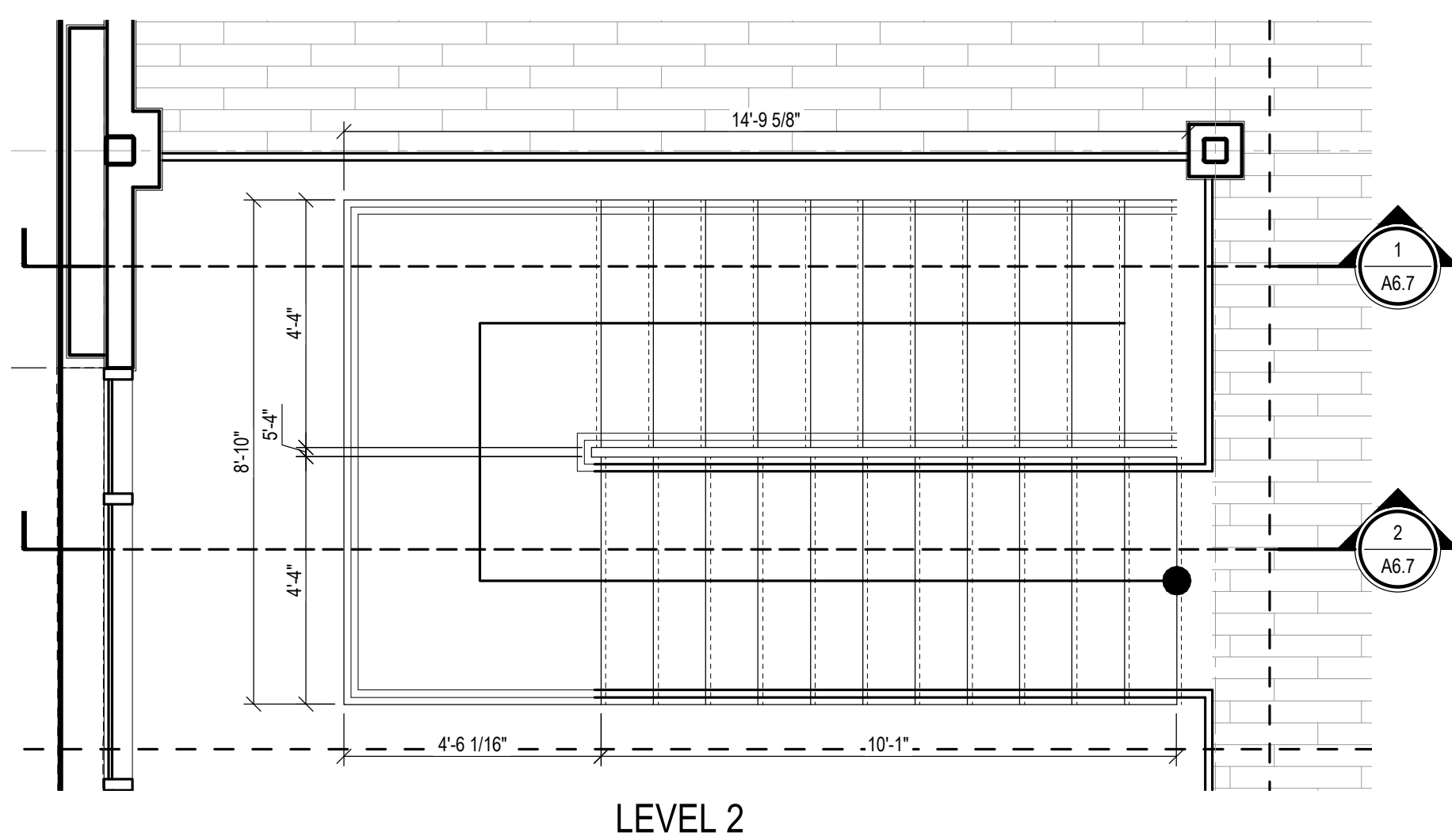
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SCALE: 3/8" = 1'-0"



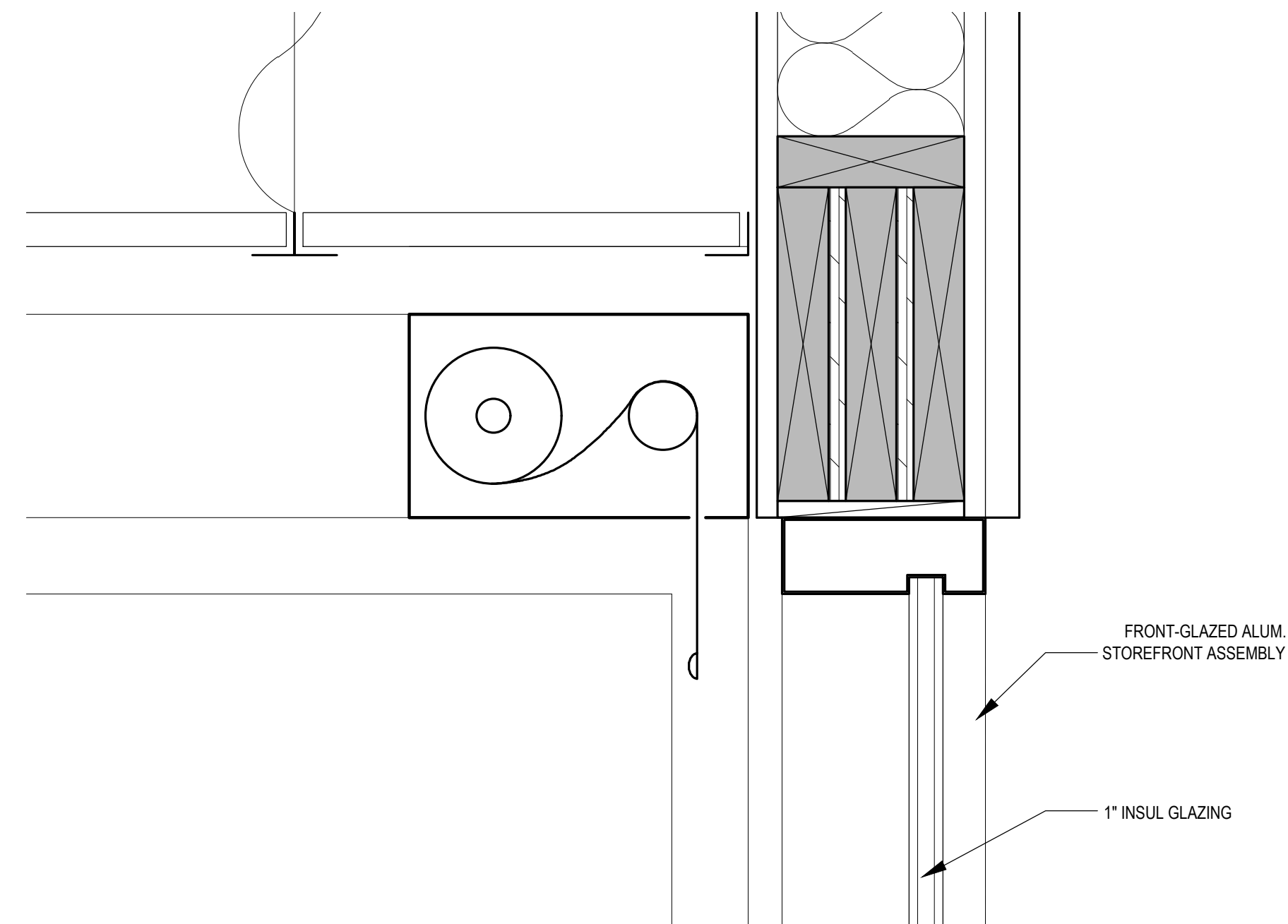
2 ENLARGED MONUMENTAL STAIR SECTION
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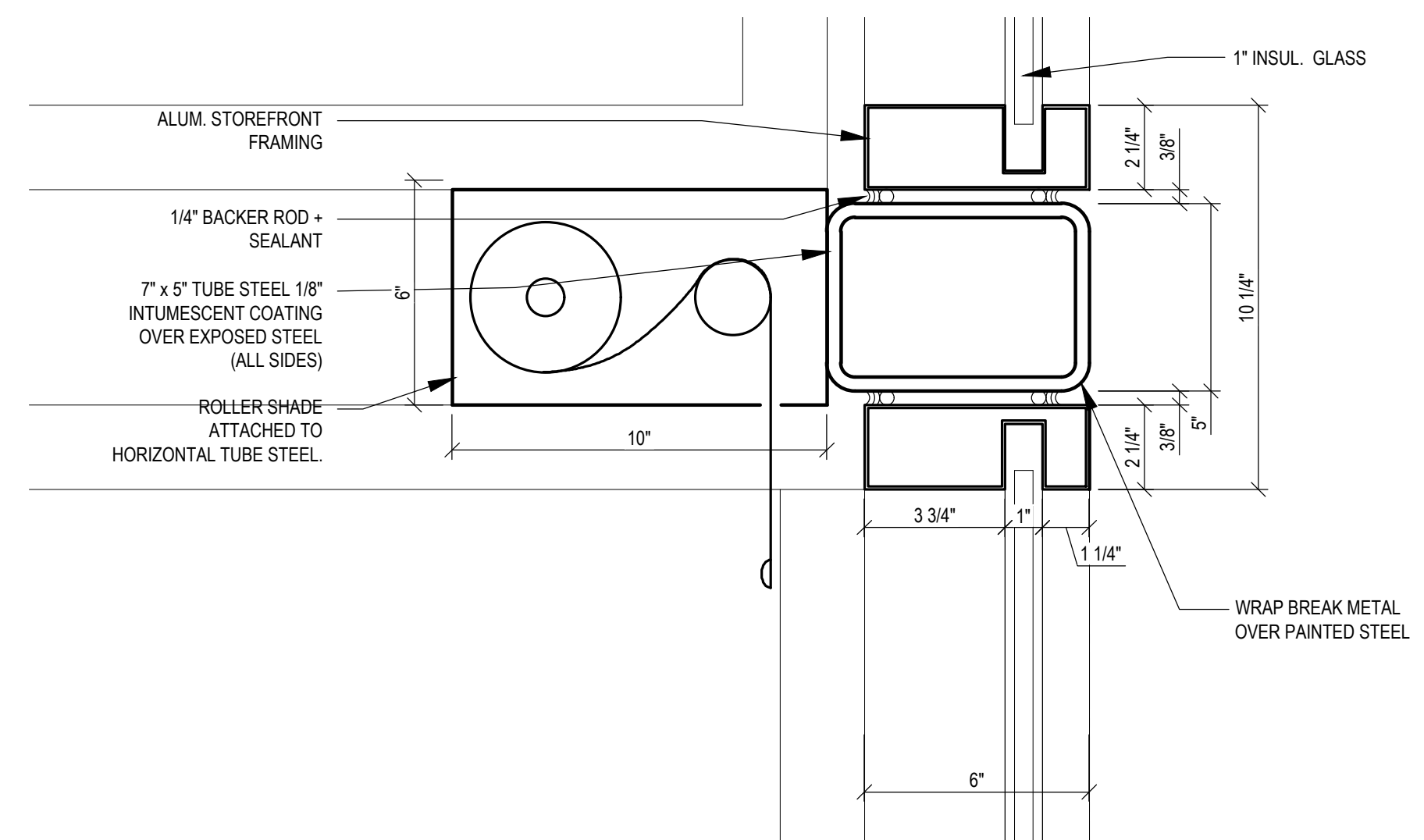
3 ENLARGED MONUMENTAL STAIR SECTION
SCALE: 3/8" = 1'-0"



A ENLARGED MONUMENTAL STAIR PLAN
SCALE: 3/8" = 1'-0"



3 STOREFRONT HEADER DETAIL
SCALE: 3" = 1'-0"



2 STOREFRONT BEAM & HEADER DETAIL
SCALE: 3" = 1'-0"



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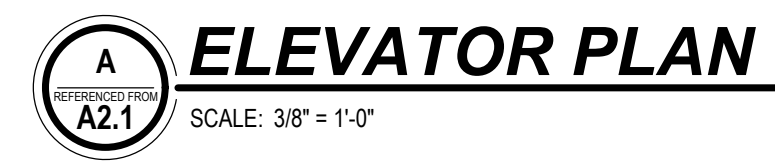
HAMILTON COUNTY

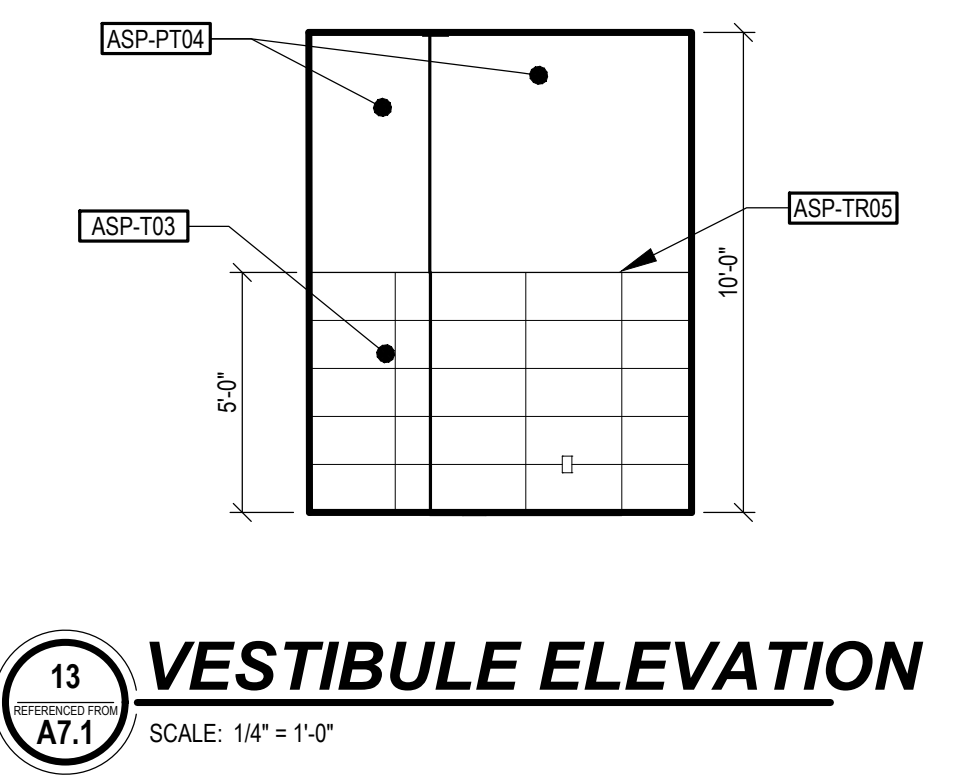
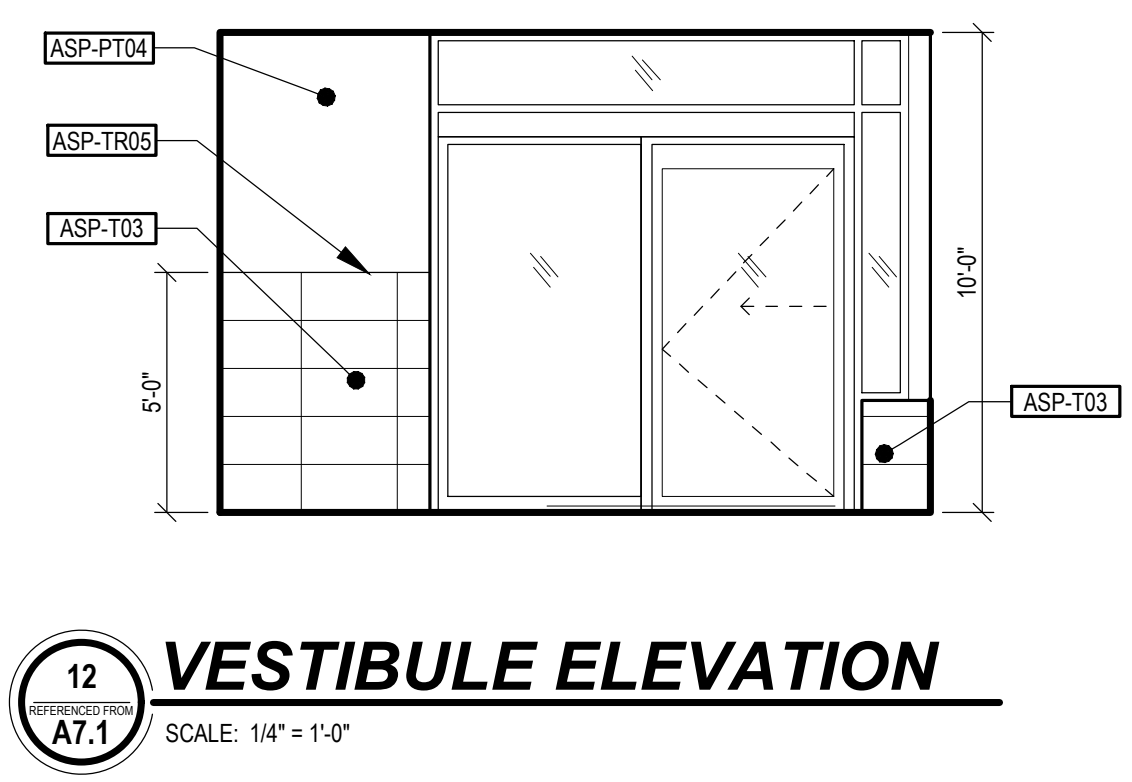
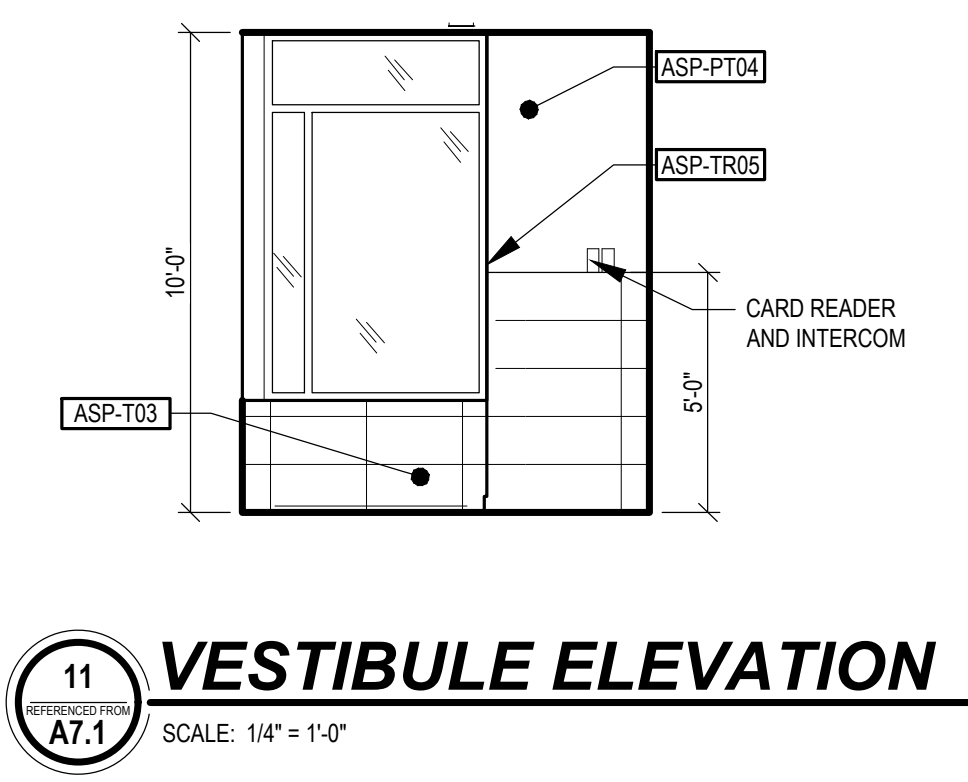
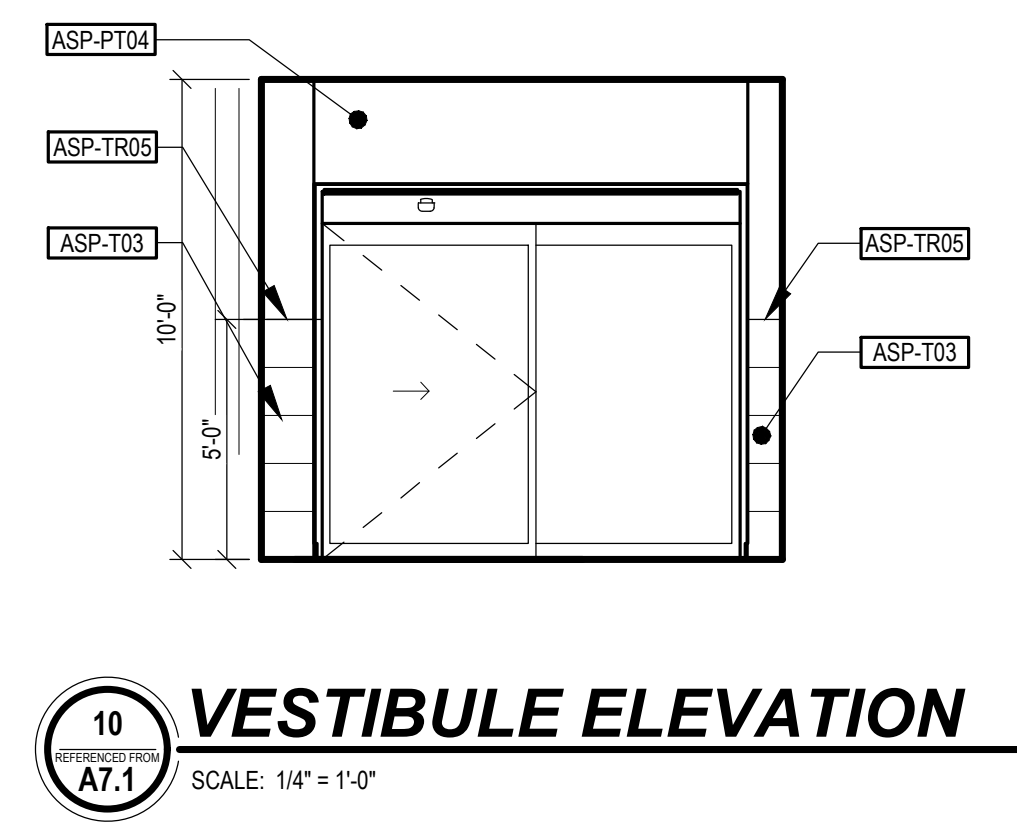
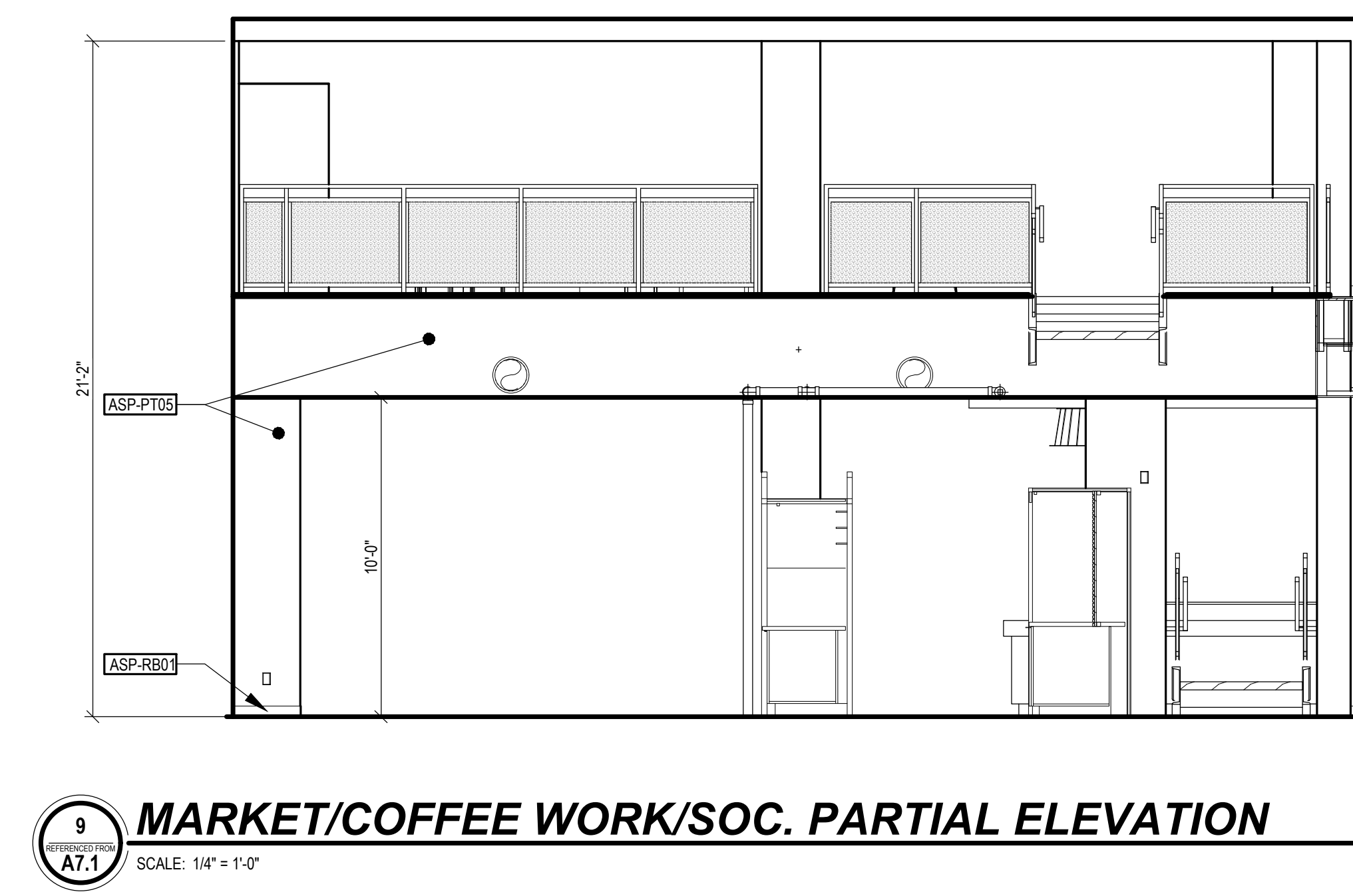
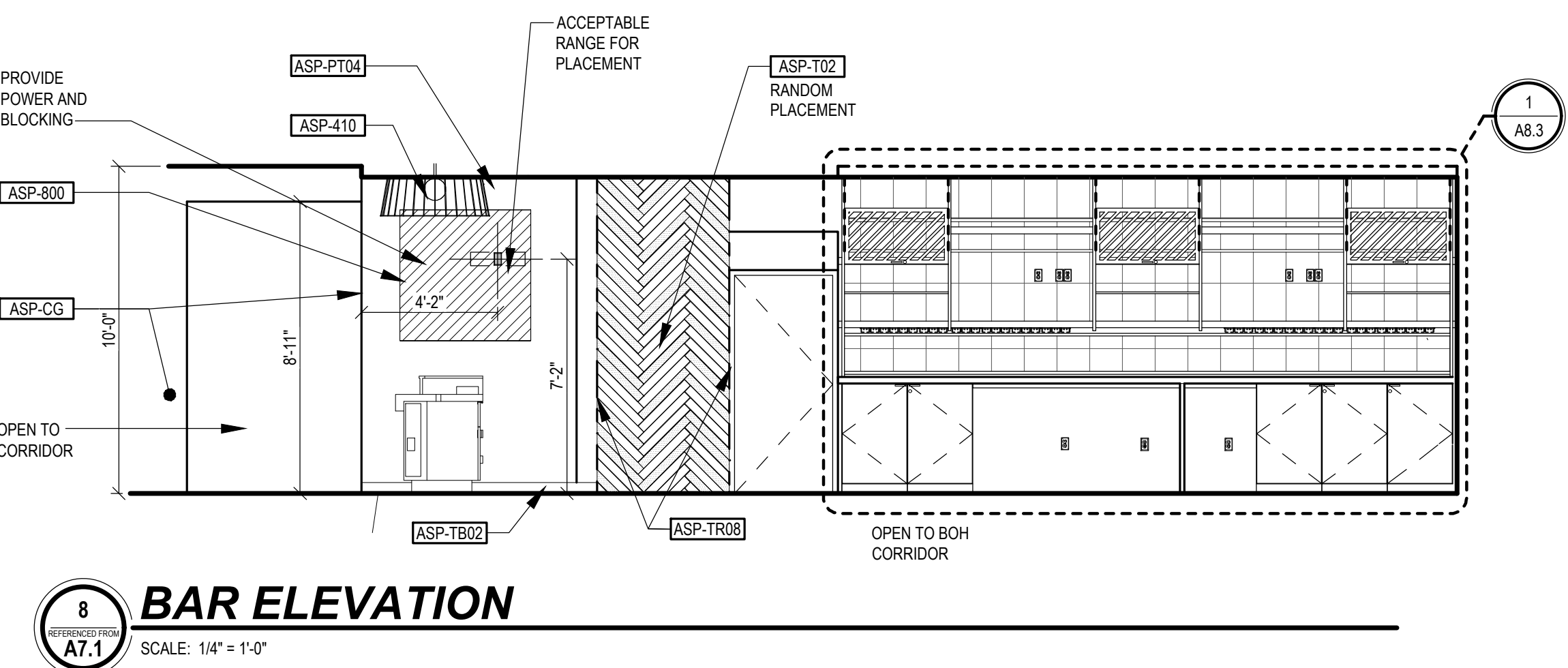
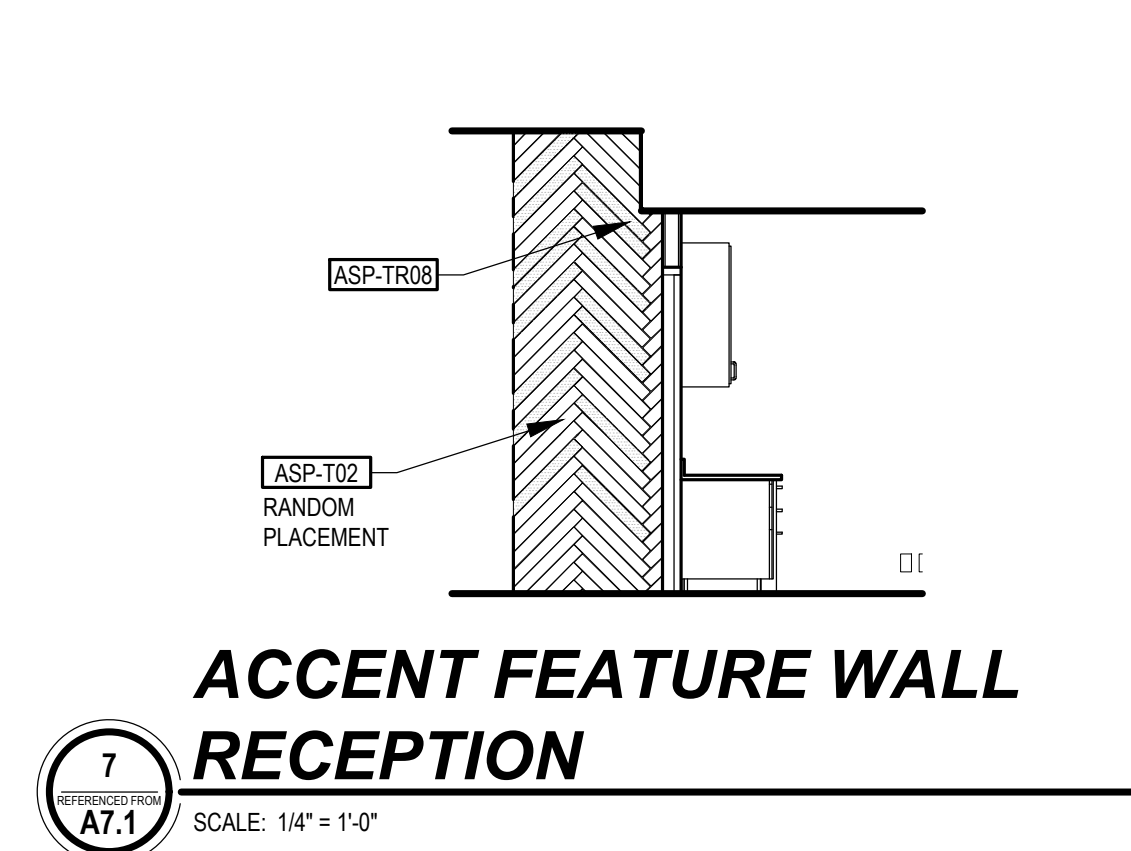
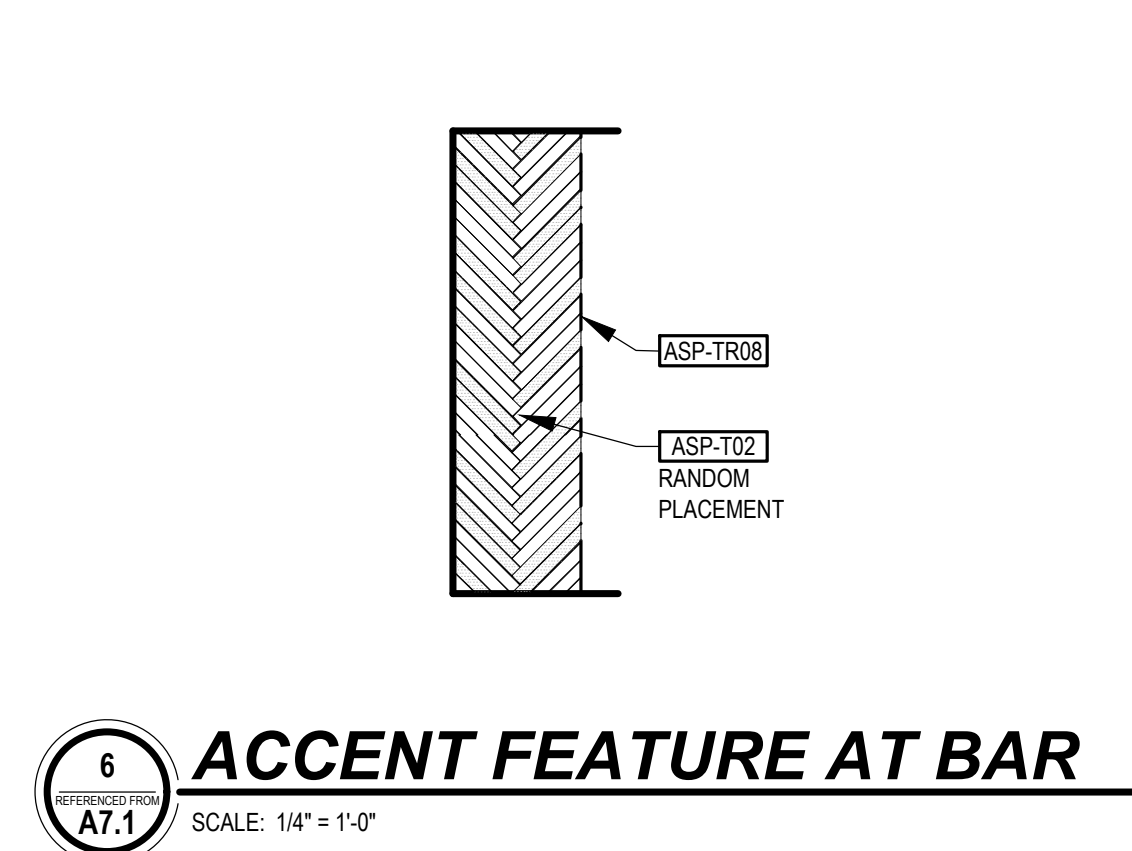
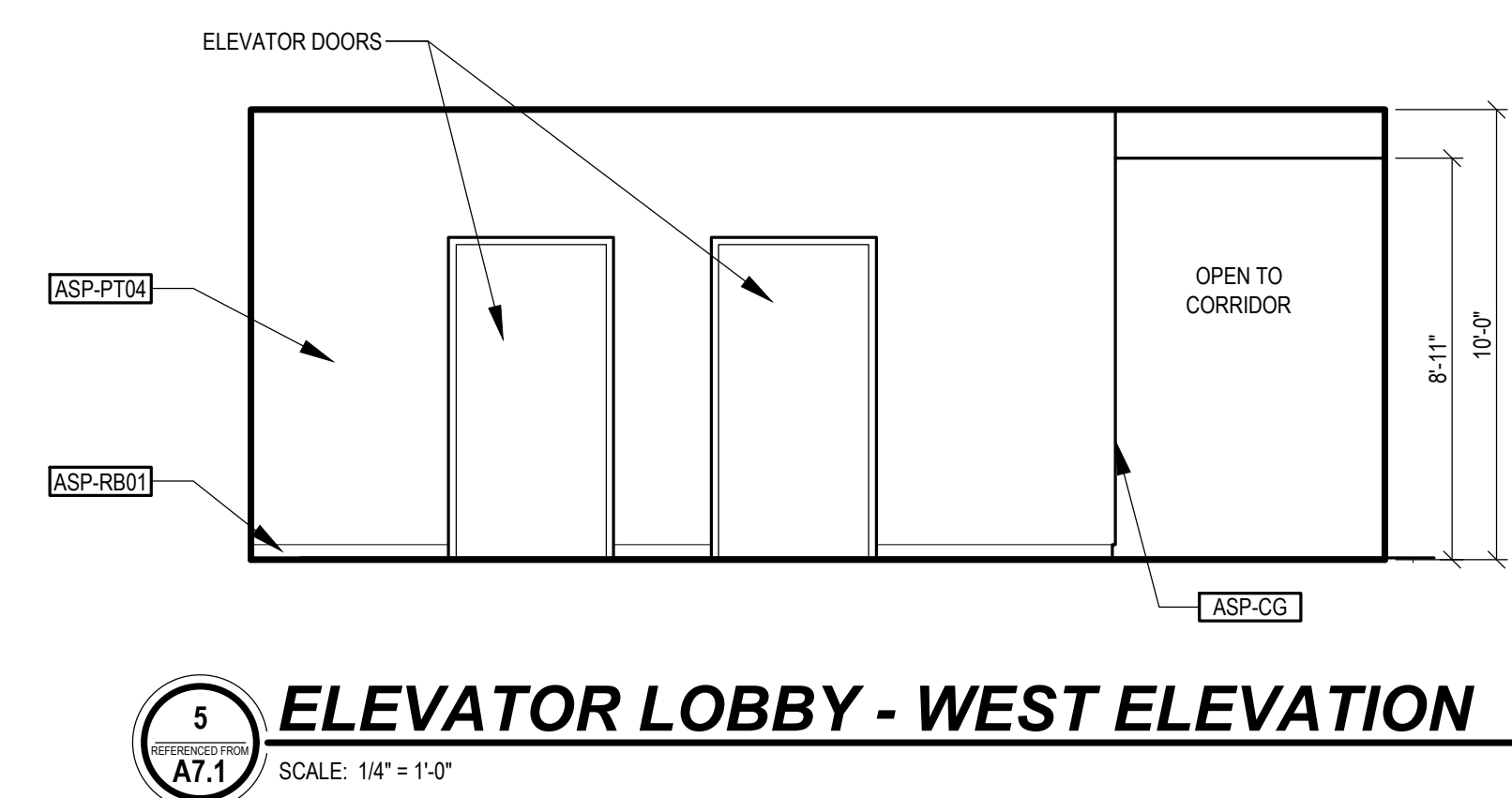
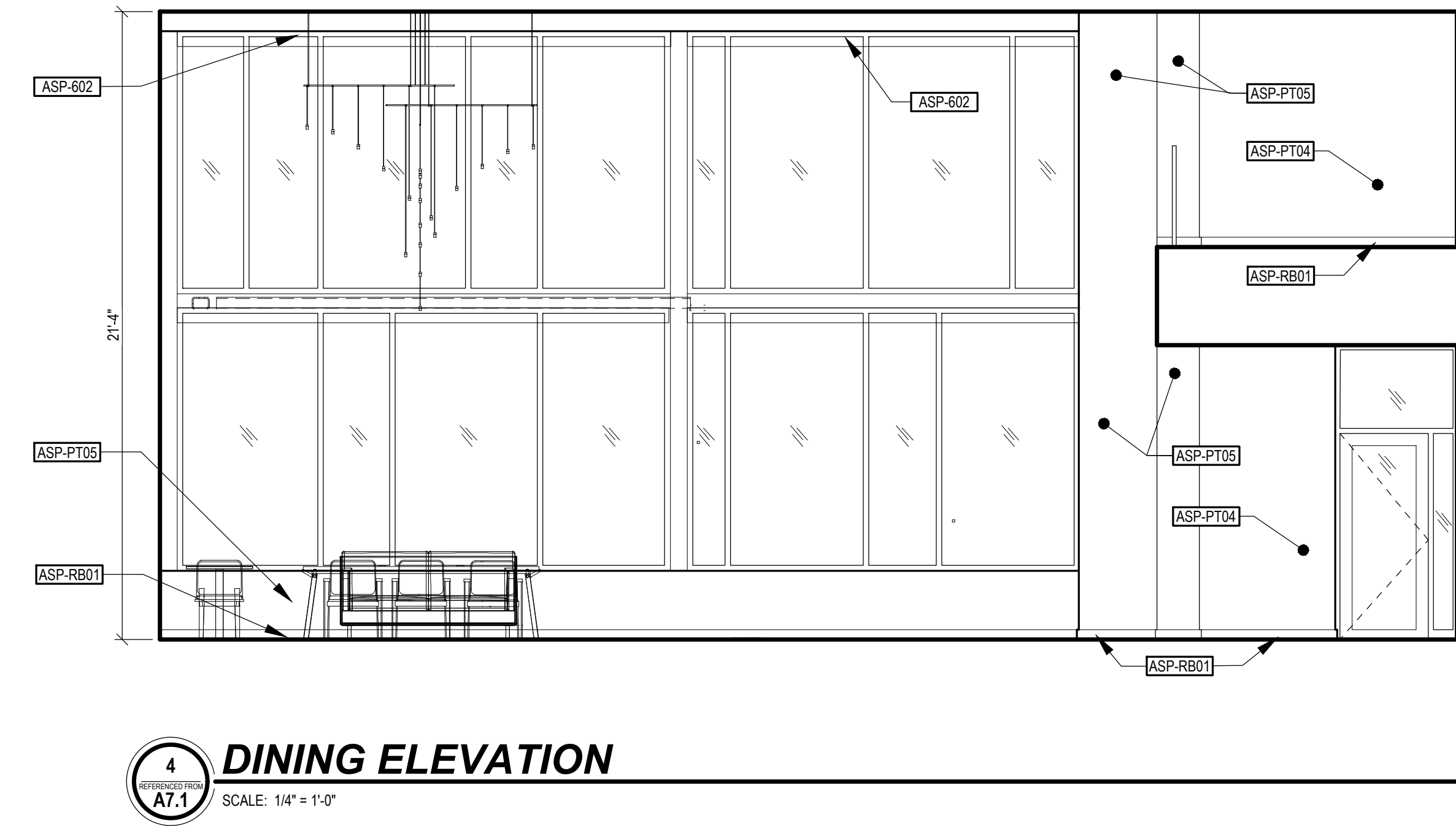
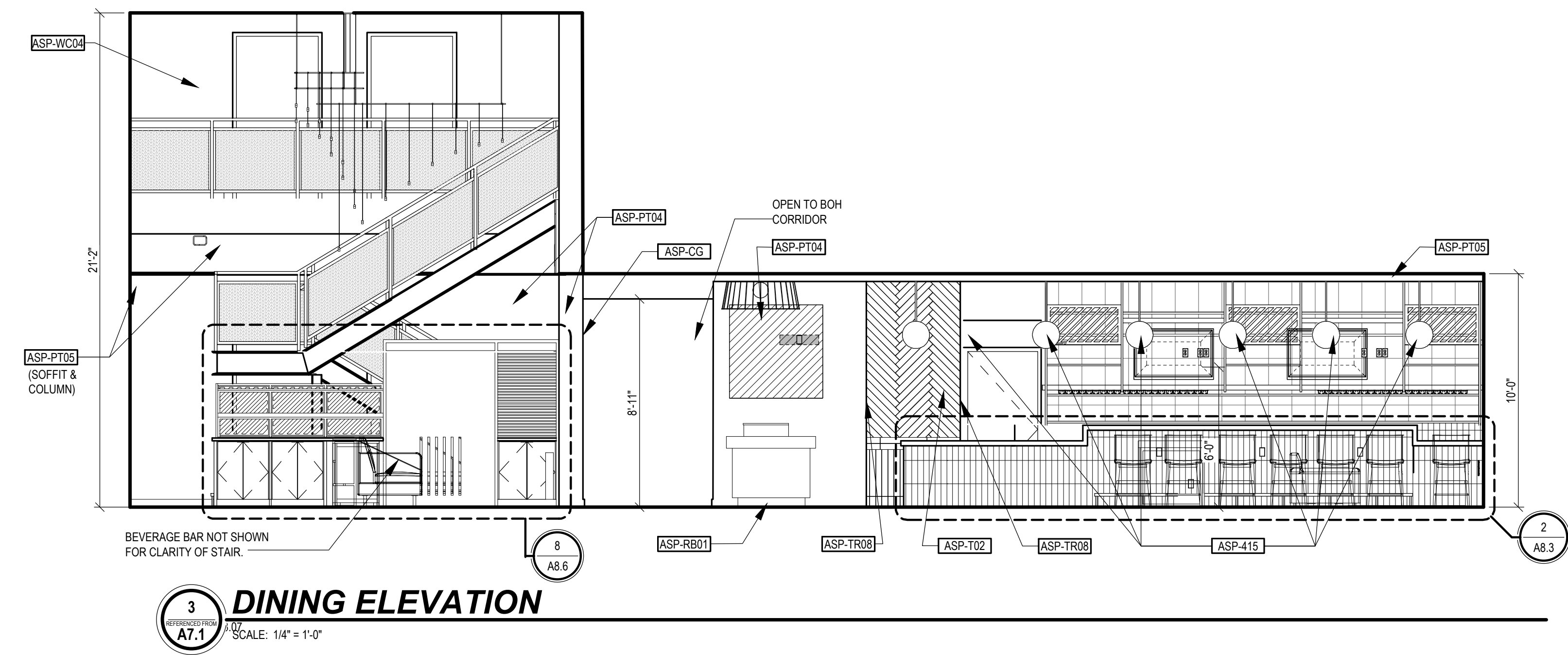
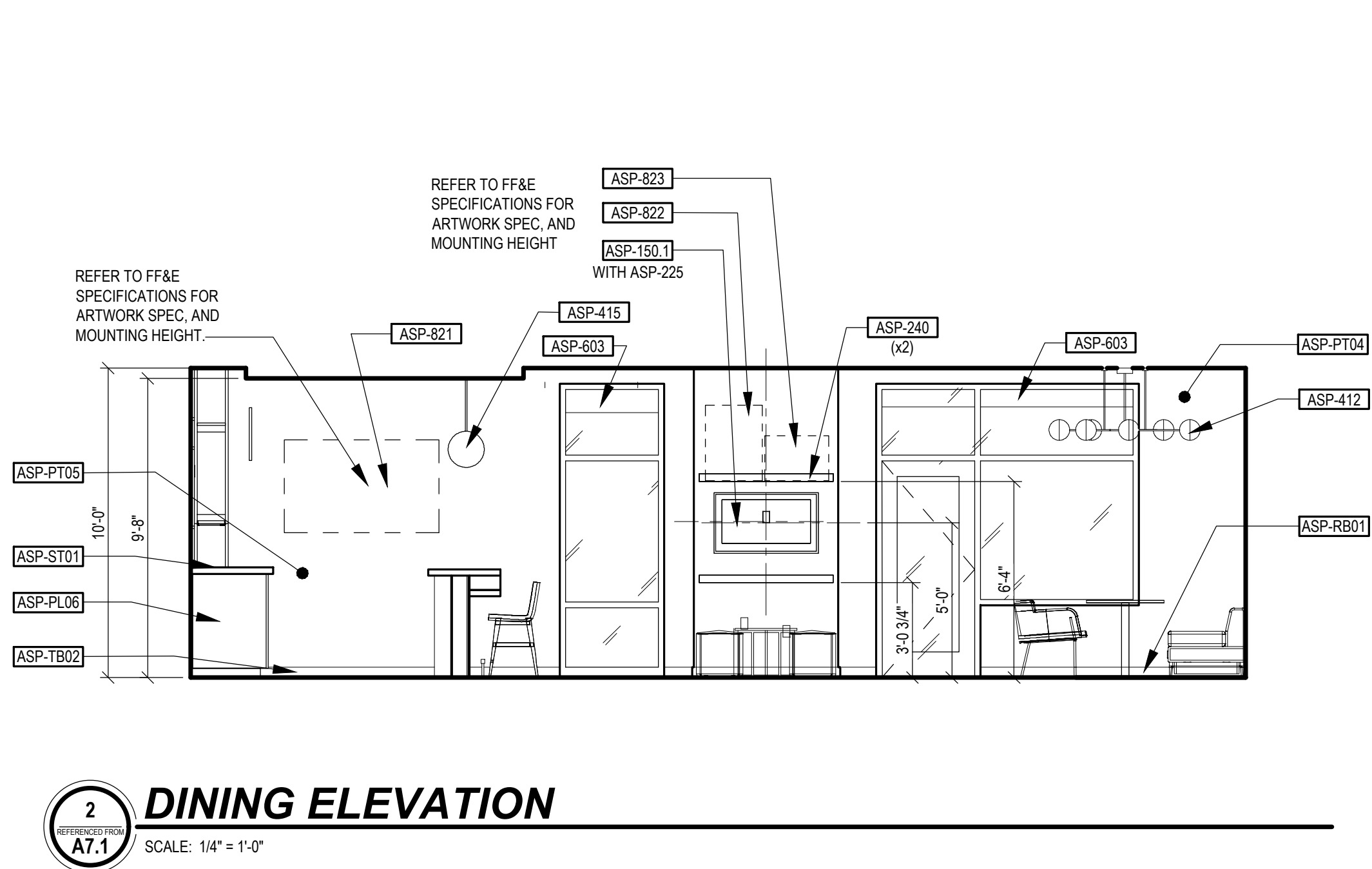
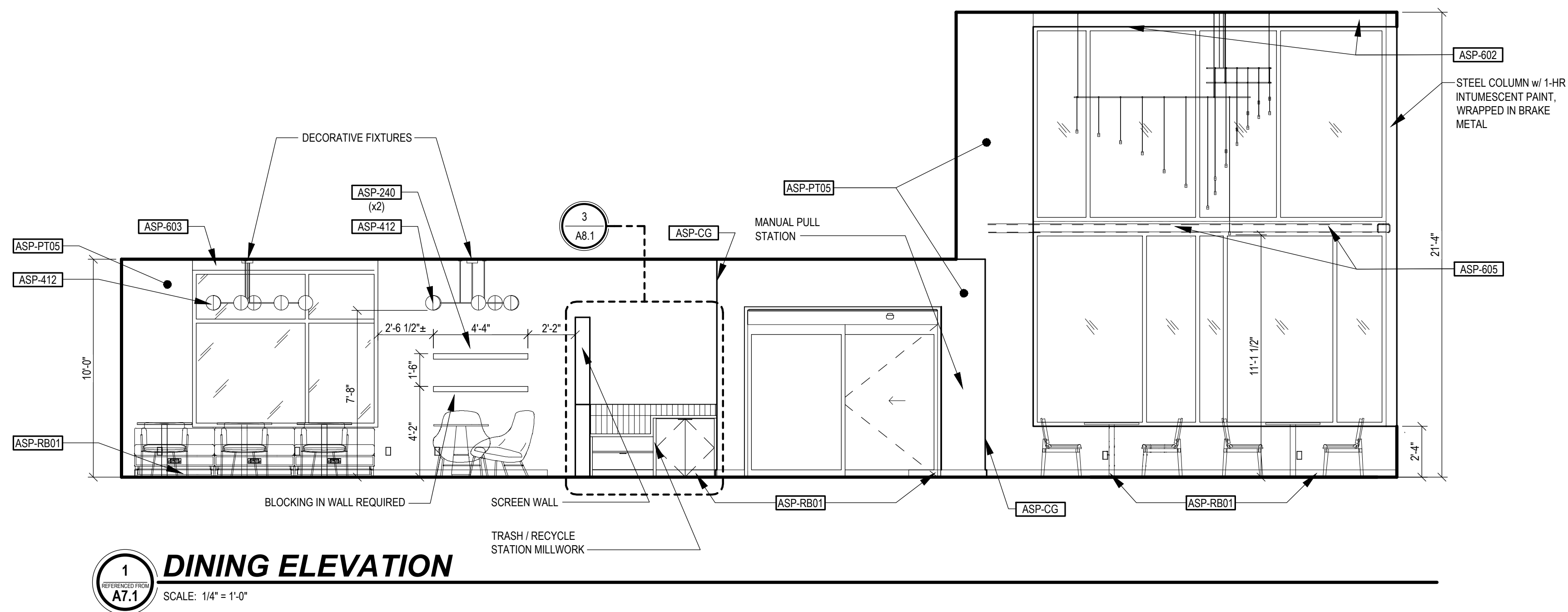
BUILDING ELEVATOR SECTIONS

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A6.7





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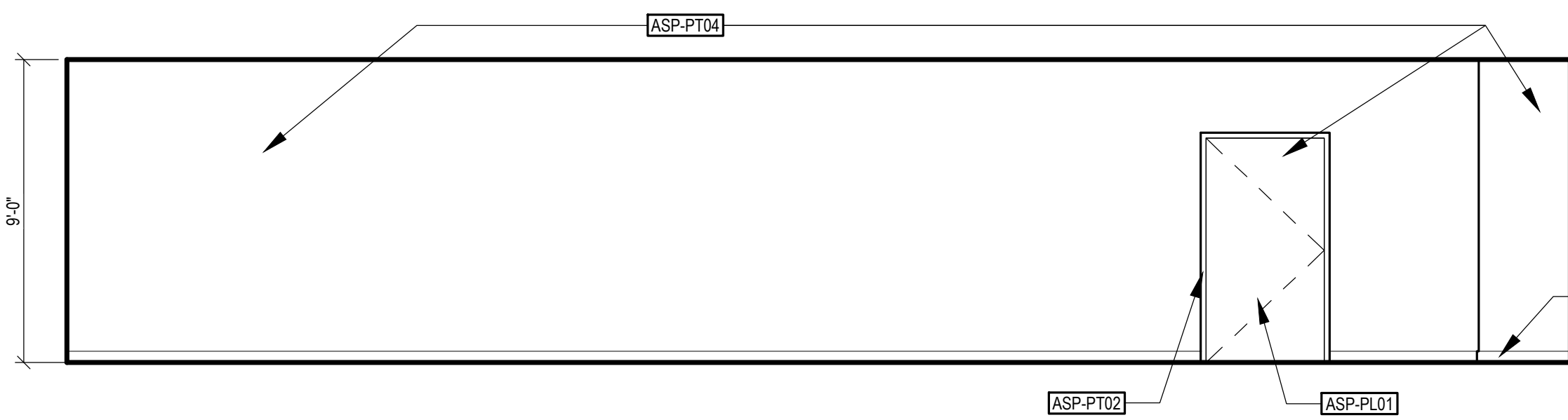
PUBLIC INTERIOR ELEVATIONS

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08/04/2022 PRELIMINARY REVIEW
01/13/2023 FRANCHISE REVIEW
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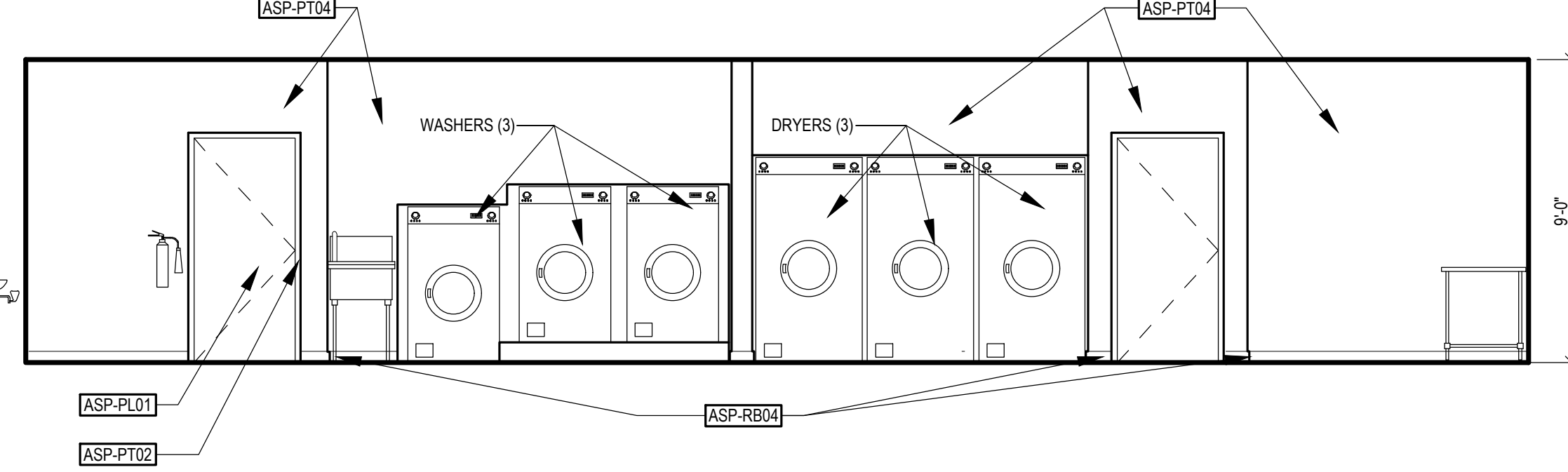
SMR Project No. **AWSFN**

A7.1

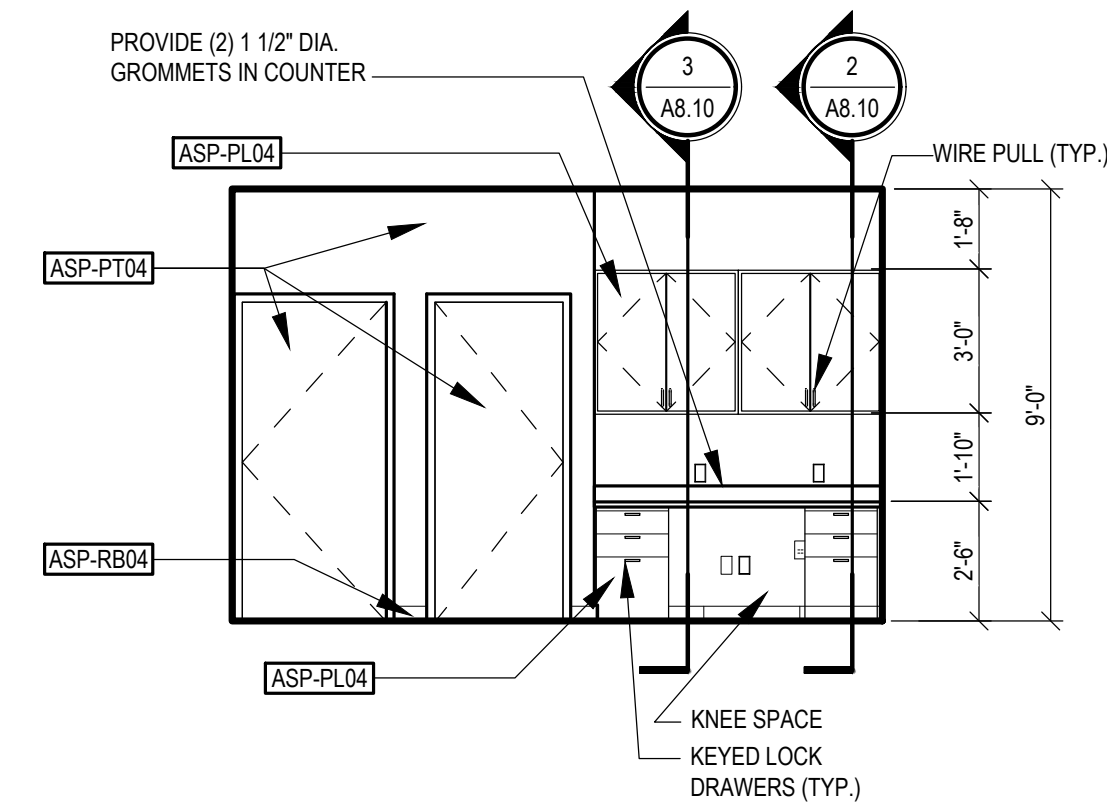
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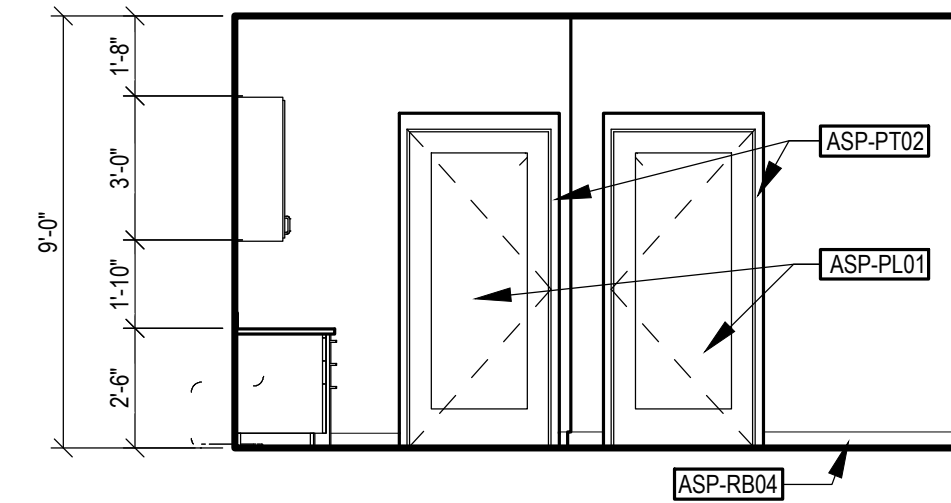
1 **LAUNDRY ELEVATION**
SCALE: 1/4" = 1'-0"



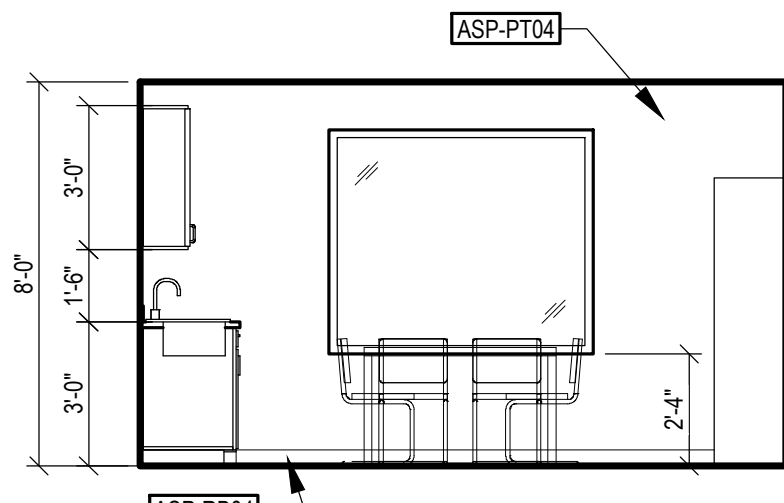
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SCALE: 1/4" = 1'-0"



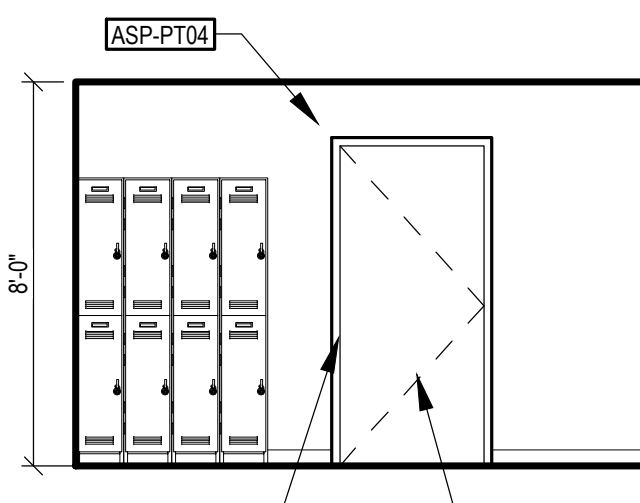
3 **WORK ROOM ELEVATION**
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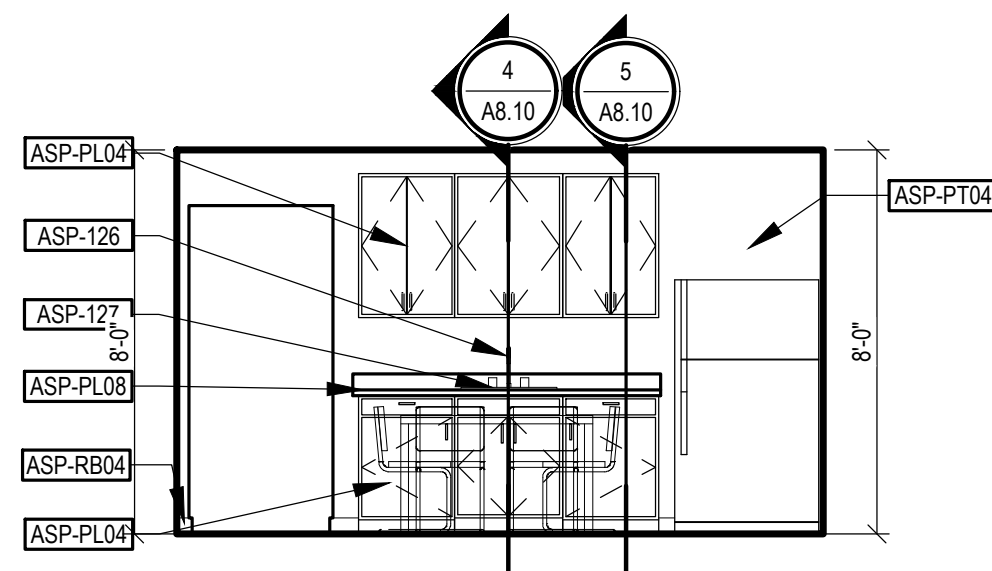
4 **WORK ROOM ELEVATION**
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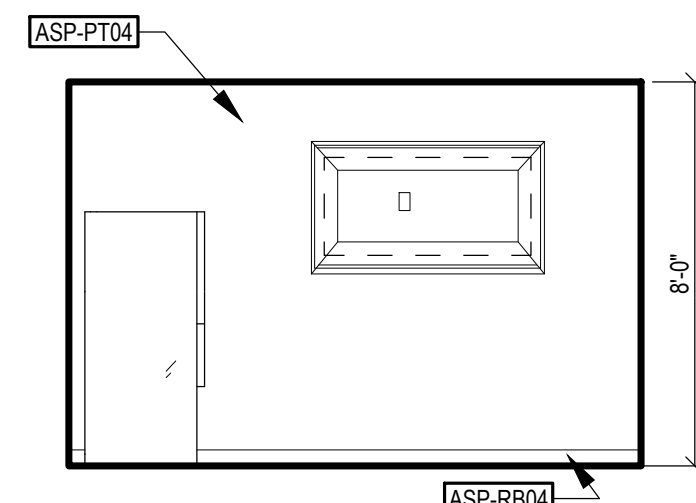
5 **EMPLOYEE BREAKROOM ELEVATION**
SCALE: 1/4" = 1'-0"



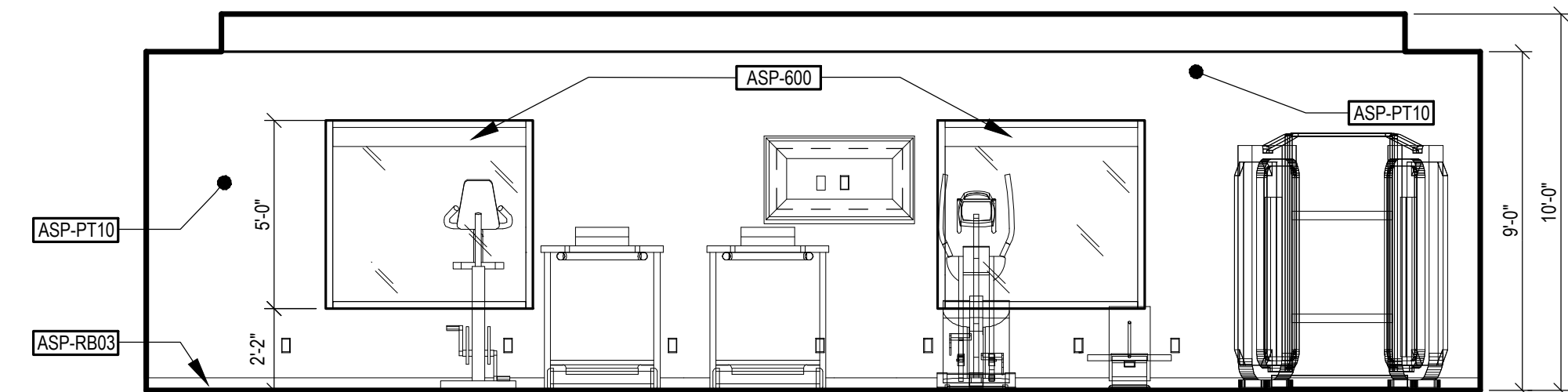
6 **EMPLOYEE BREAKROOM ELEVATION**
SCALE: 1/4" = 1'-0"



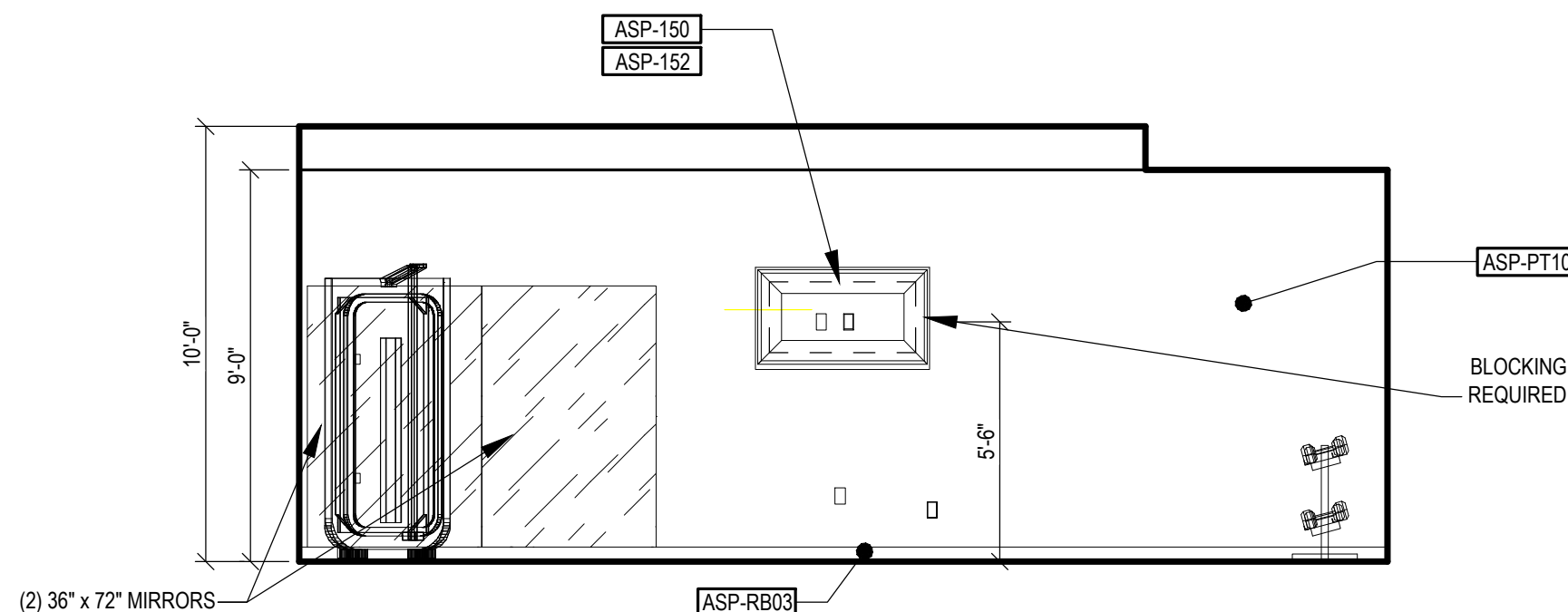
7 **EMPLOYEE BREAKROOM ELEVATION**
SCALE: 1/4" = 1'-0"



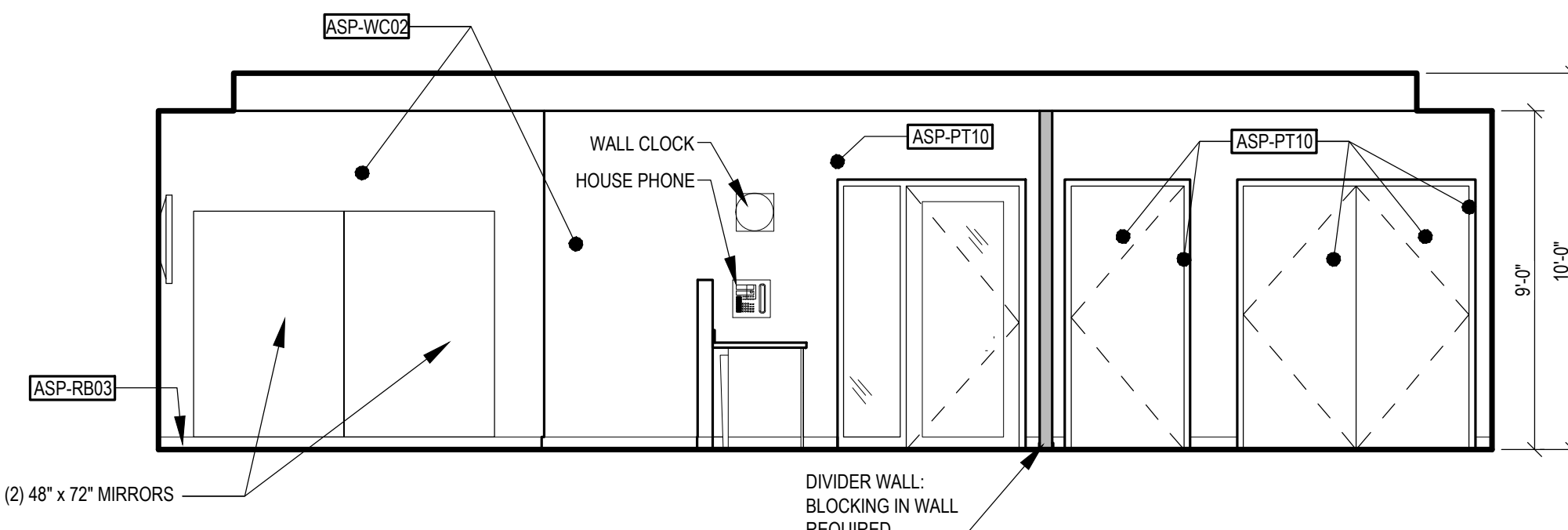
8 **EMPLOYEE BREAKROOM ELEVATION**
SCALE: 1/4" = 1'-0"



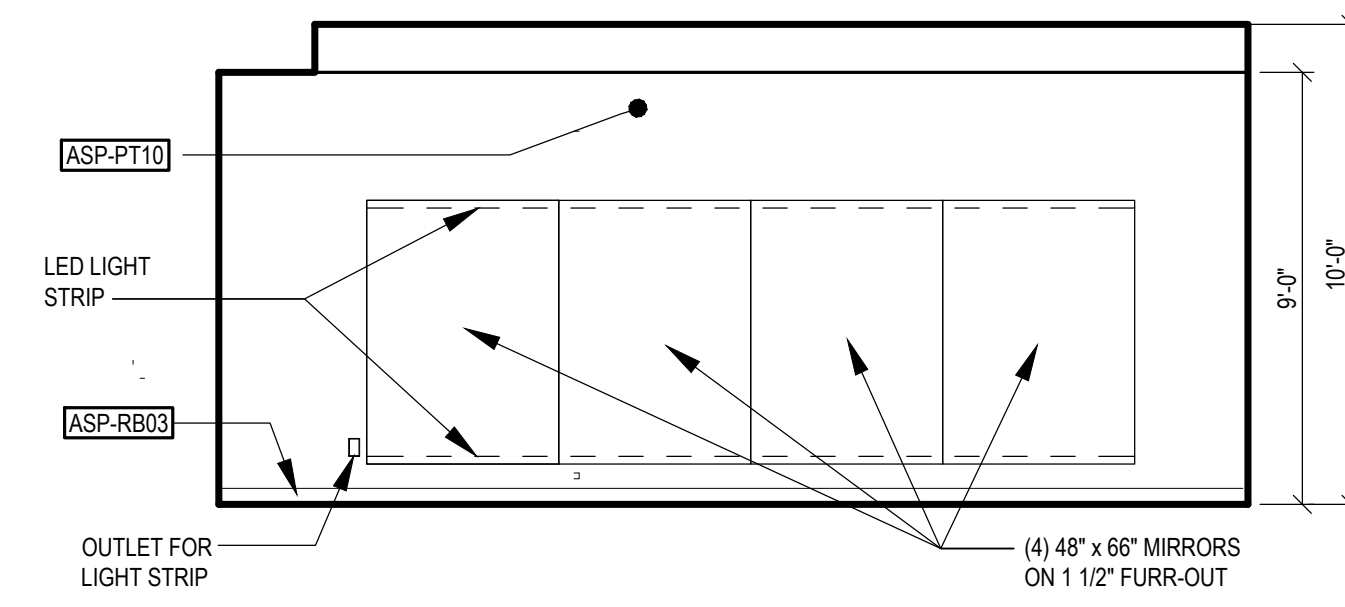
9 **FITNESS CENTER ELEVATION**
SCALE: 1/4" = 1'-0"



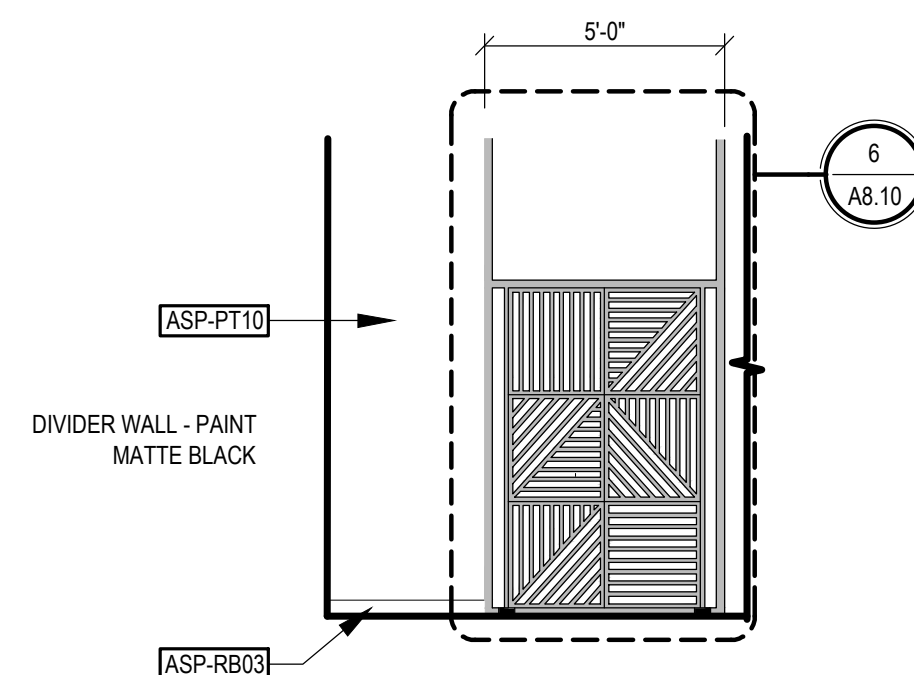
10 **FITNESS CENTER WEST ELEVATION**
SCALE: 1/4" = 1'-0"



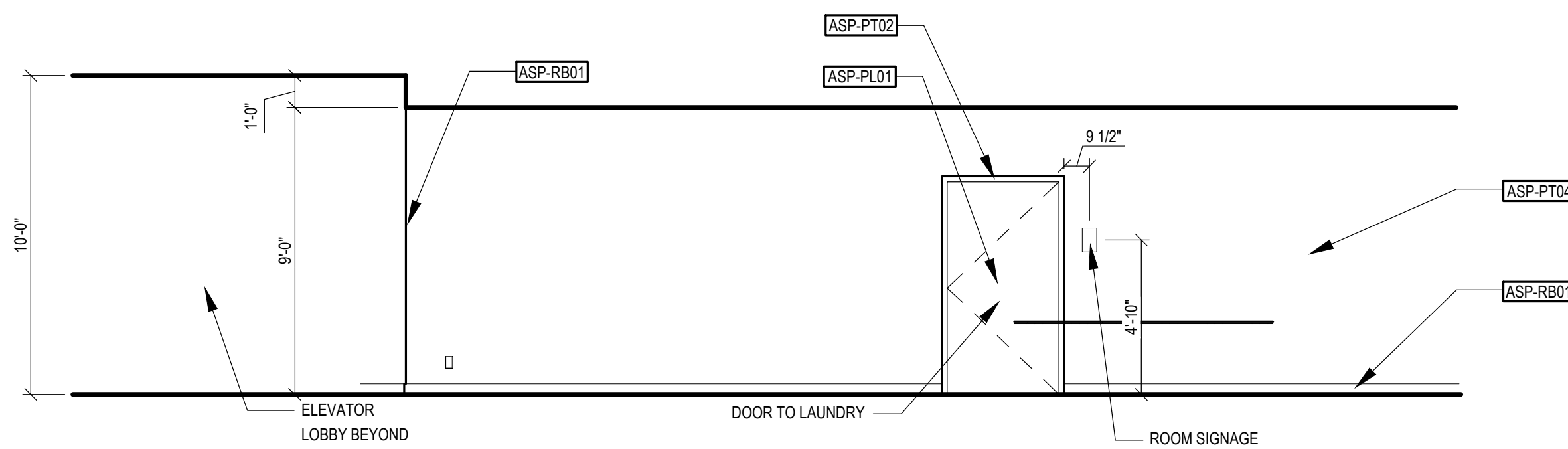
11 **FITNESS CENTER SOUTH ELEVATION**
SCALE: 1/4" = 1'-0"



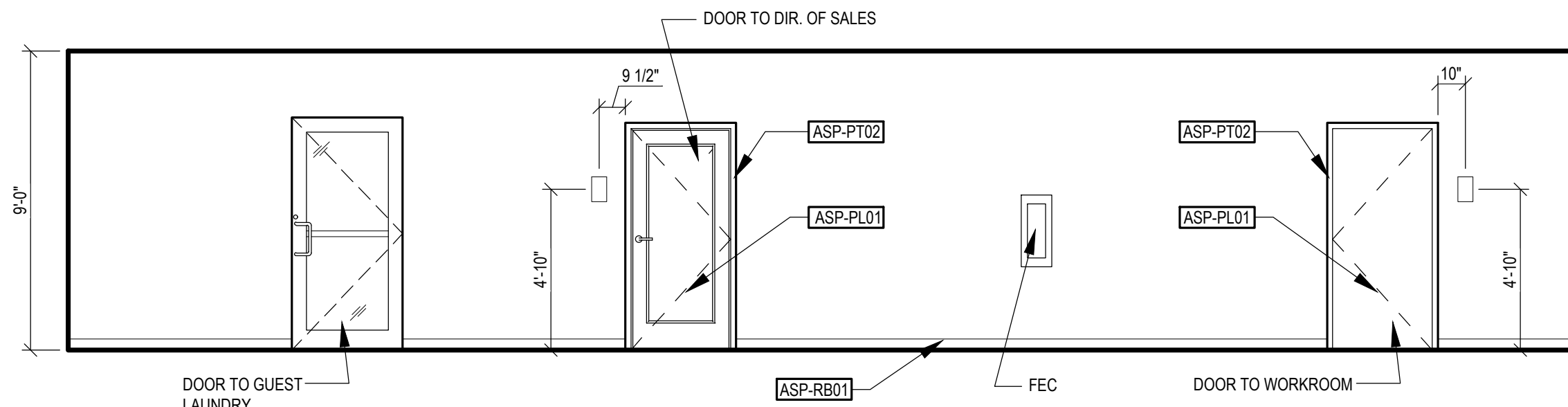
12 **FITNESS CENTER EAST ELEVATION**
SCALE: 1/4" = 1'-0"



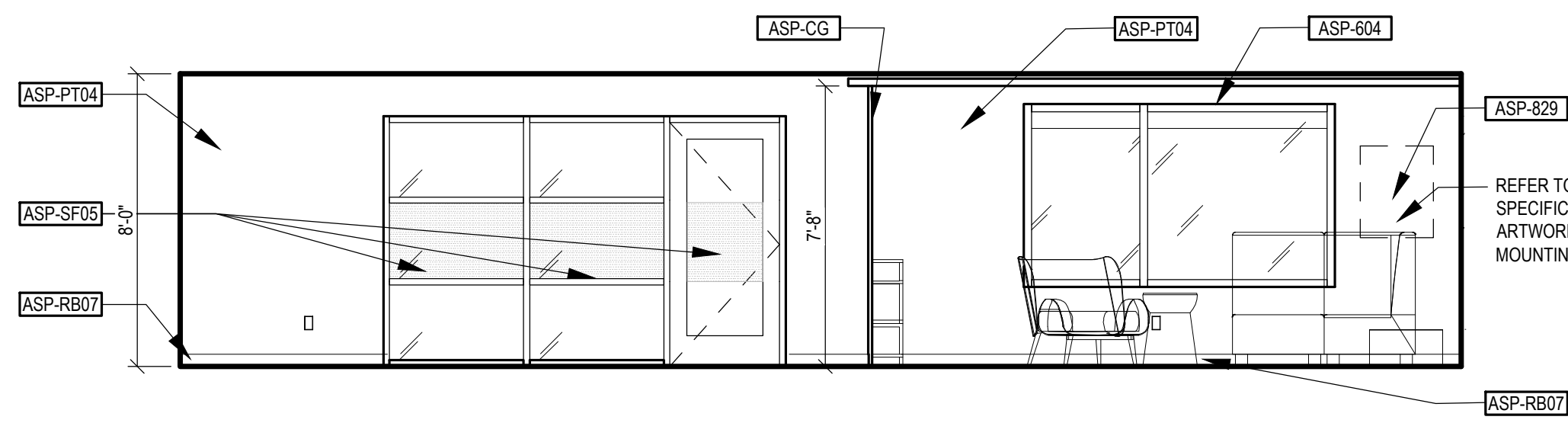
13 **FITNESS CENTER DIVIDER WALL**
SCALE: 1/4" = 1'-0"



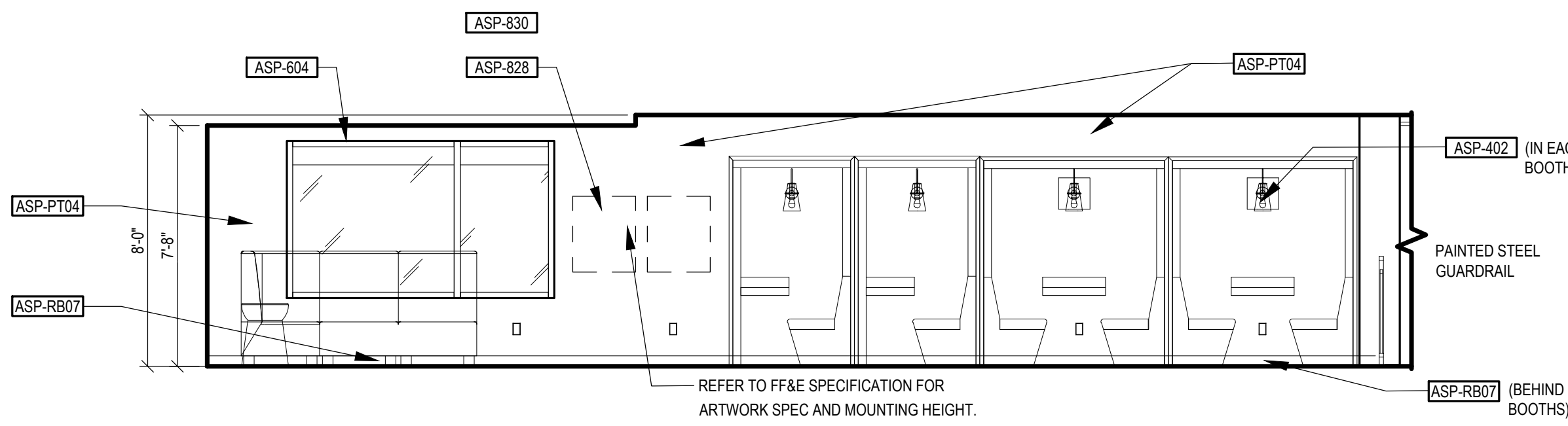
14 **BOH CORRIDOR ELEVATION**
SCALE: 1/4" = 1'-0"



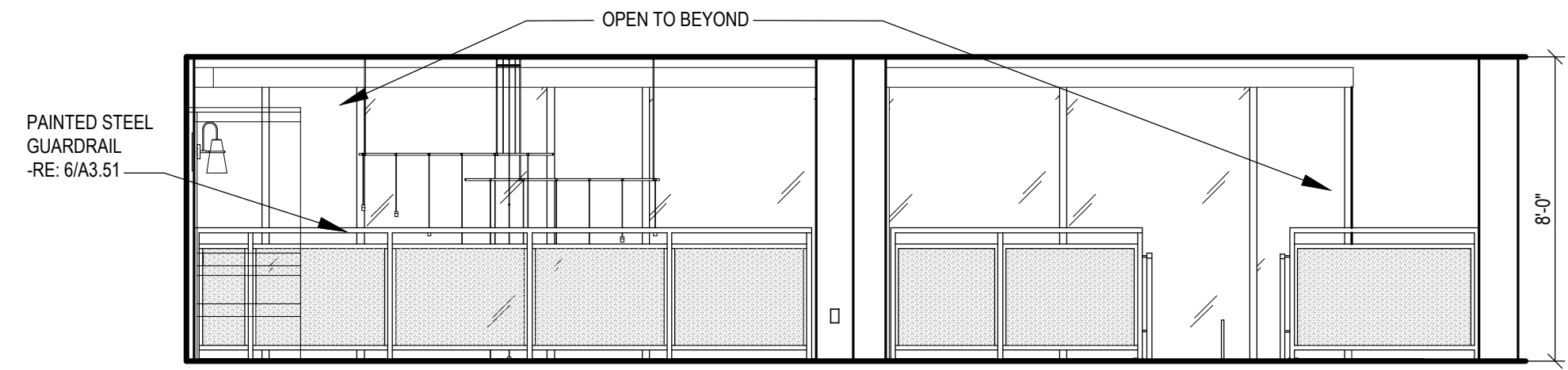
15 **BOH CORRIDOR ELEVATION**
SCALE: 1/4" = 1'-0"



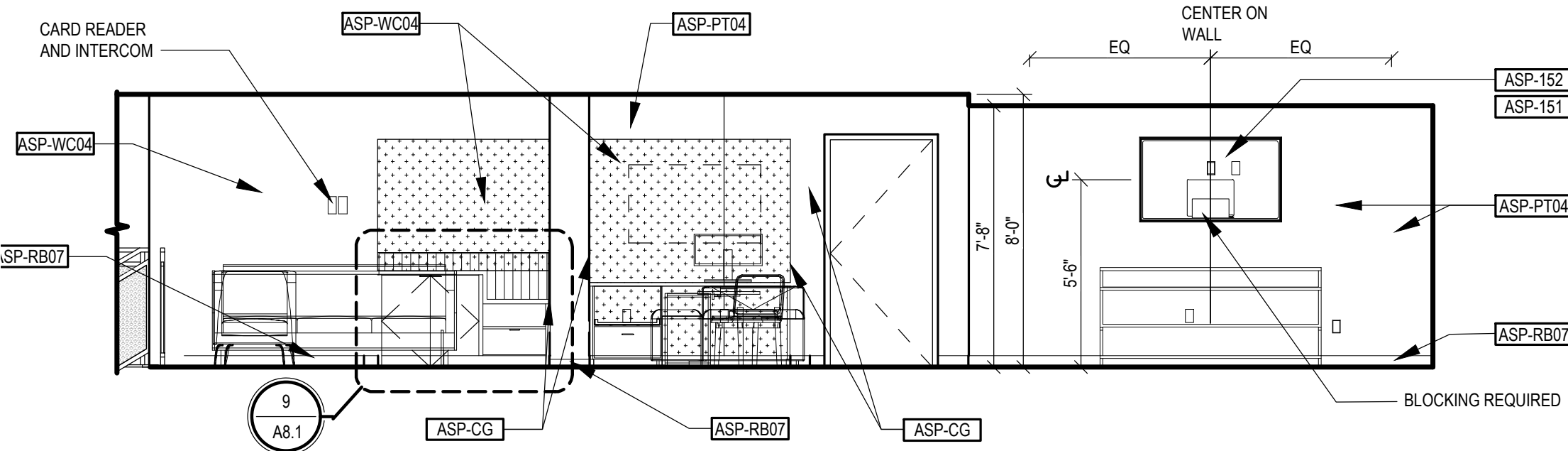
1 2ND FLOOR PUBLIC SPACE NORTH ELEVATION
SCALE: 1/4" = 1'-0"



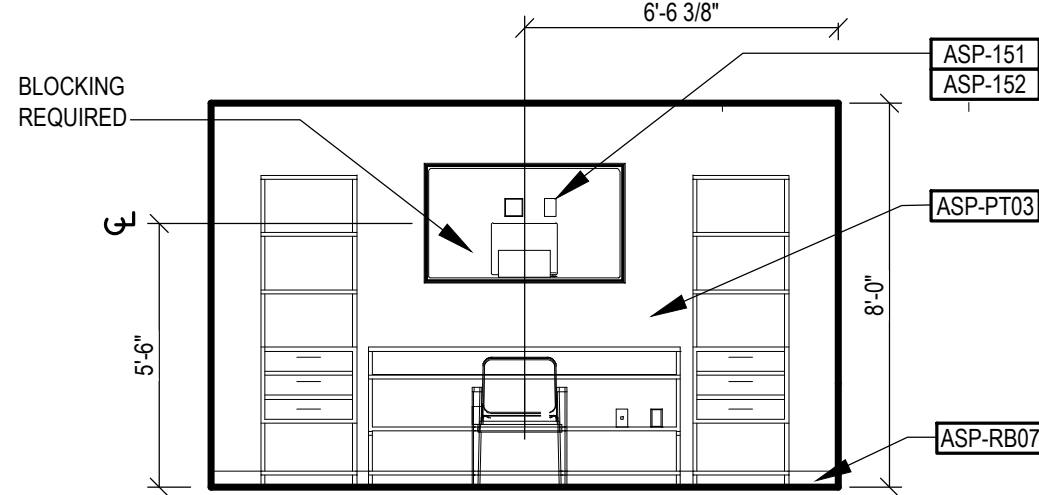
2 2ND FLOOR PUBLIC SPACE EAST ELEVATION
SCALE: 1/4" = 1'-0"



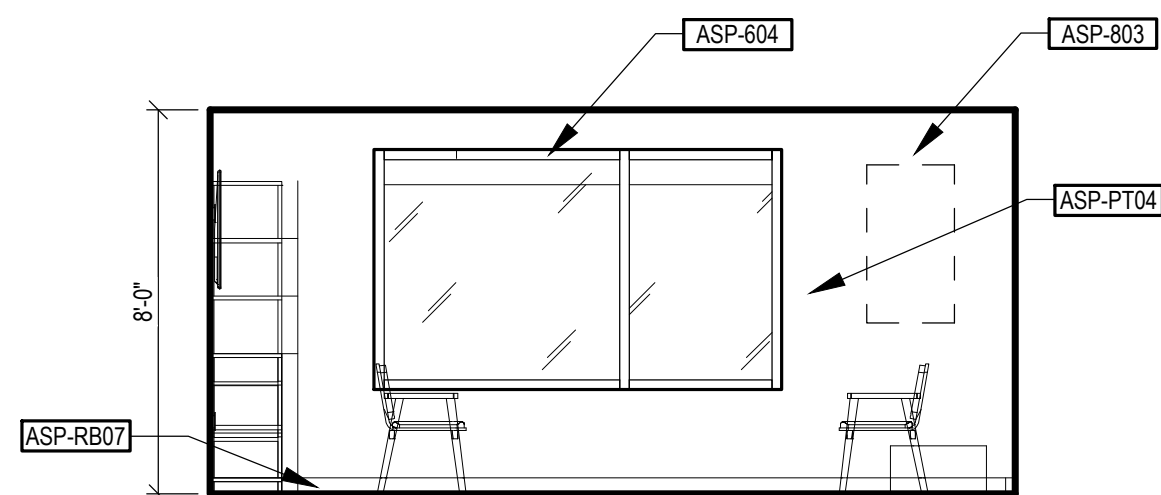
3 2ND FLOOR PUBLIC SPACE SOUTH ELEVATION
SCALE: 1/4" = 1'-0"



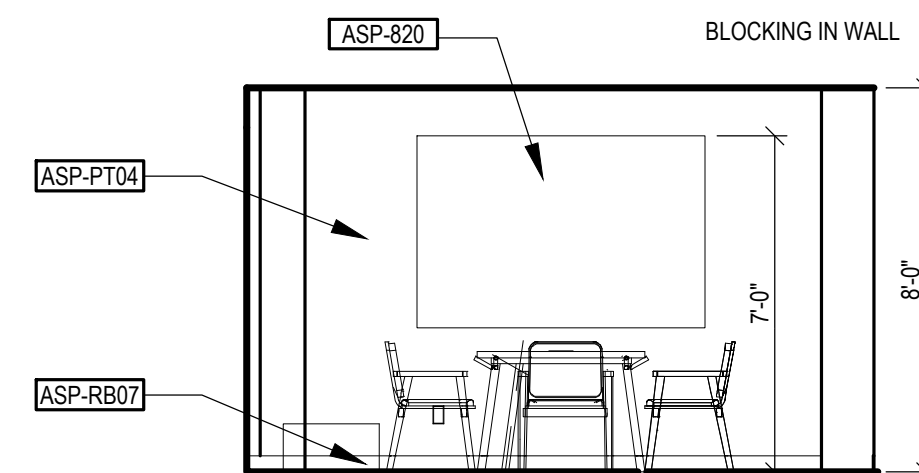
4 2ND FLOOR PUBLIC SPACE ELEVATION
SCALE: 1/4" = 1'-0"



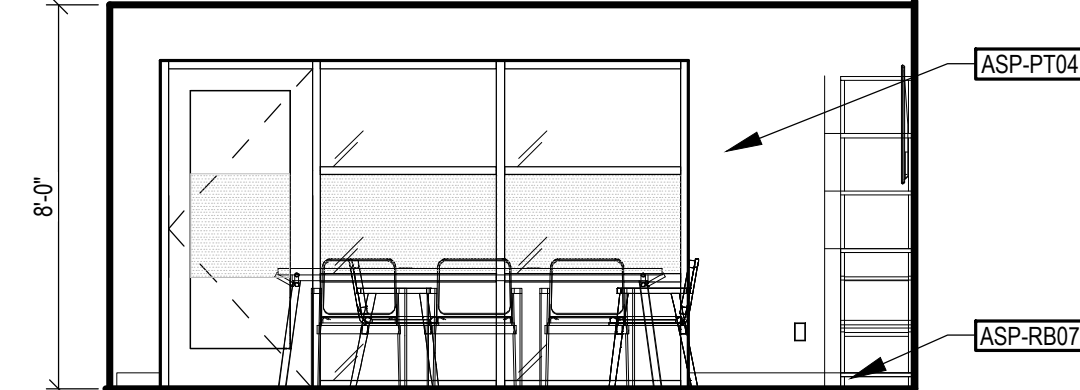
5 THE STUDY ELEVATION
SCALE: 1/4" = 1'-0"



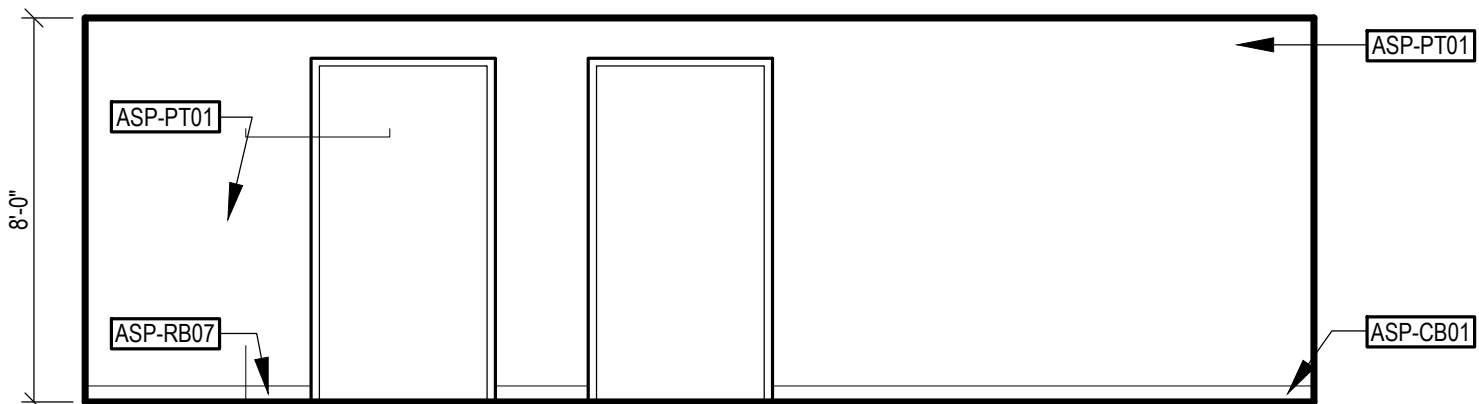
6 THE STUDY NORTH ELEVATION
SCALE: 1/4" = 1'-0"



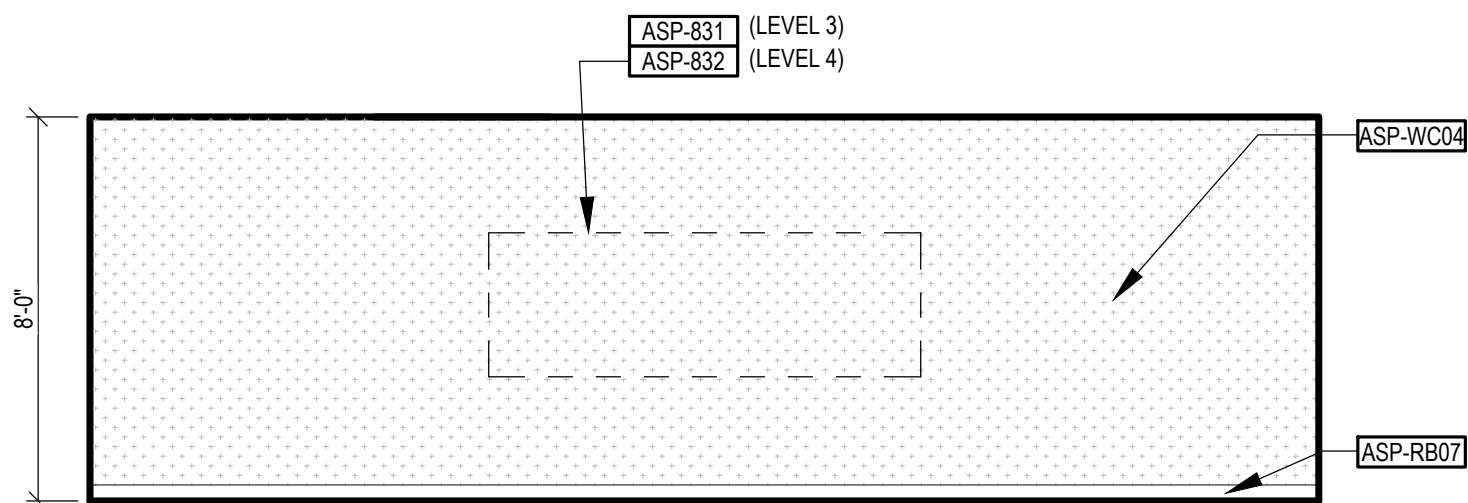
7 THE STUDY EAST ELEVATION
SCALE: 1/4" = 1'-0"



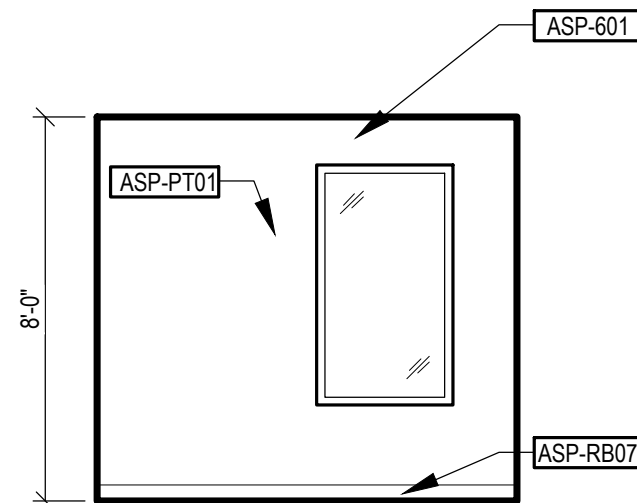
8 THE STUDY ELEVATION
SCALE: 1/4" = 1'-0"



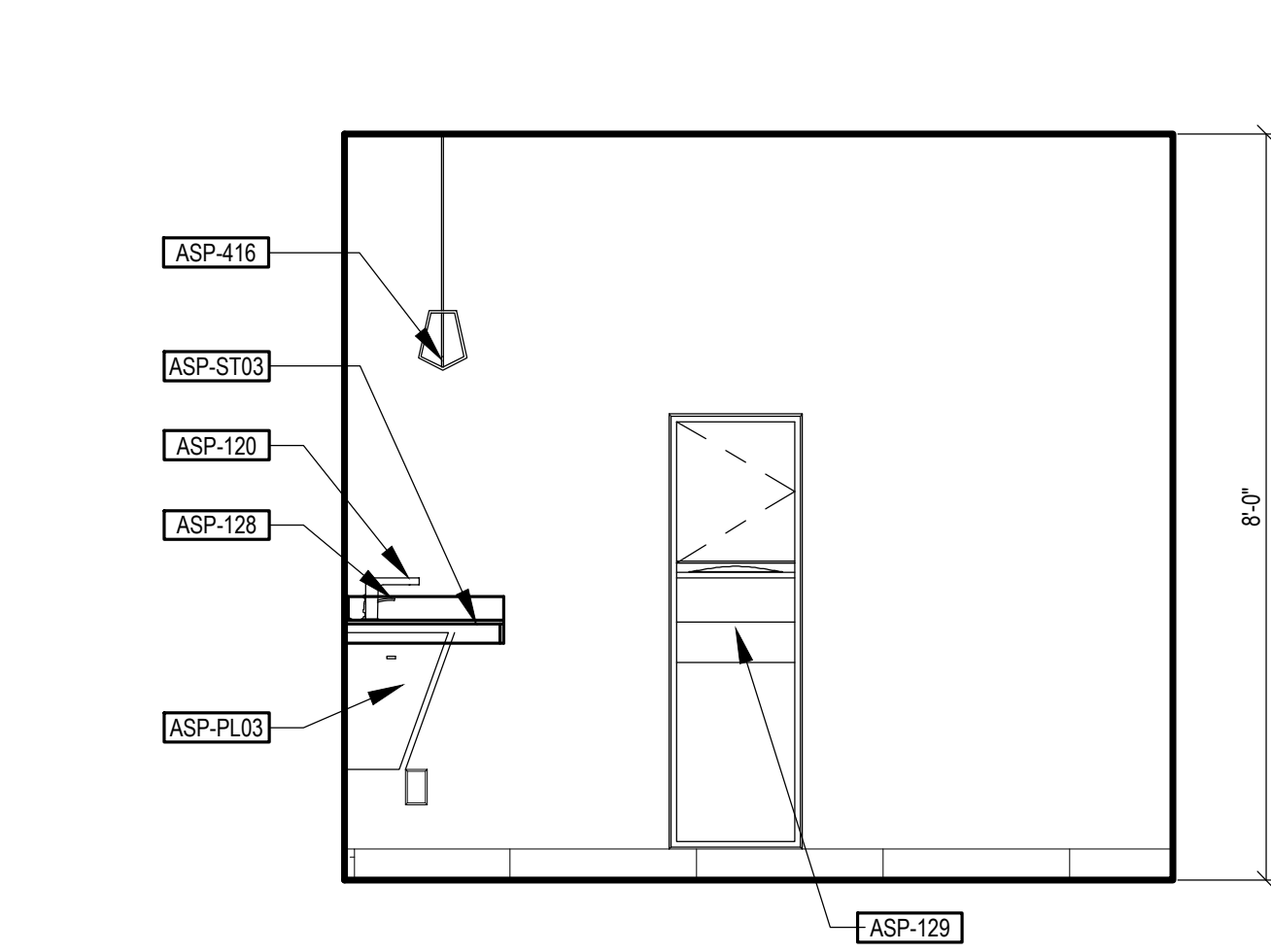
19 ELEVATOR LOBBY 3&4 FLOORS ELEVATION
SCALE: 1/4" = 1'-0"



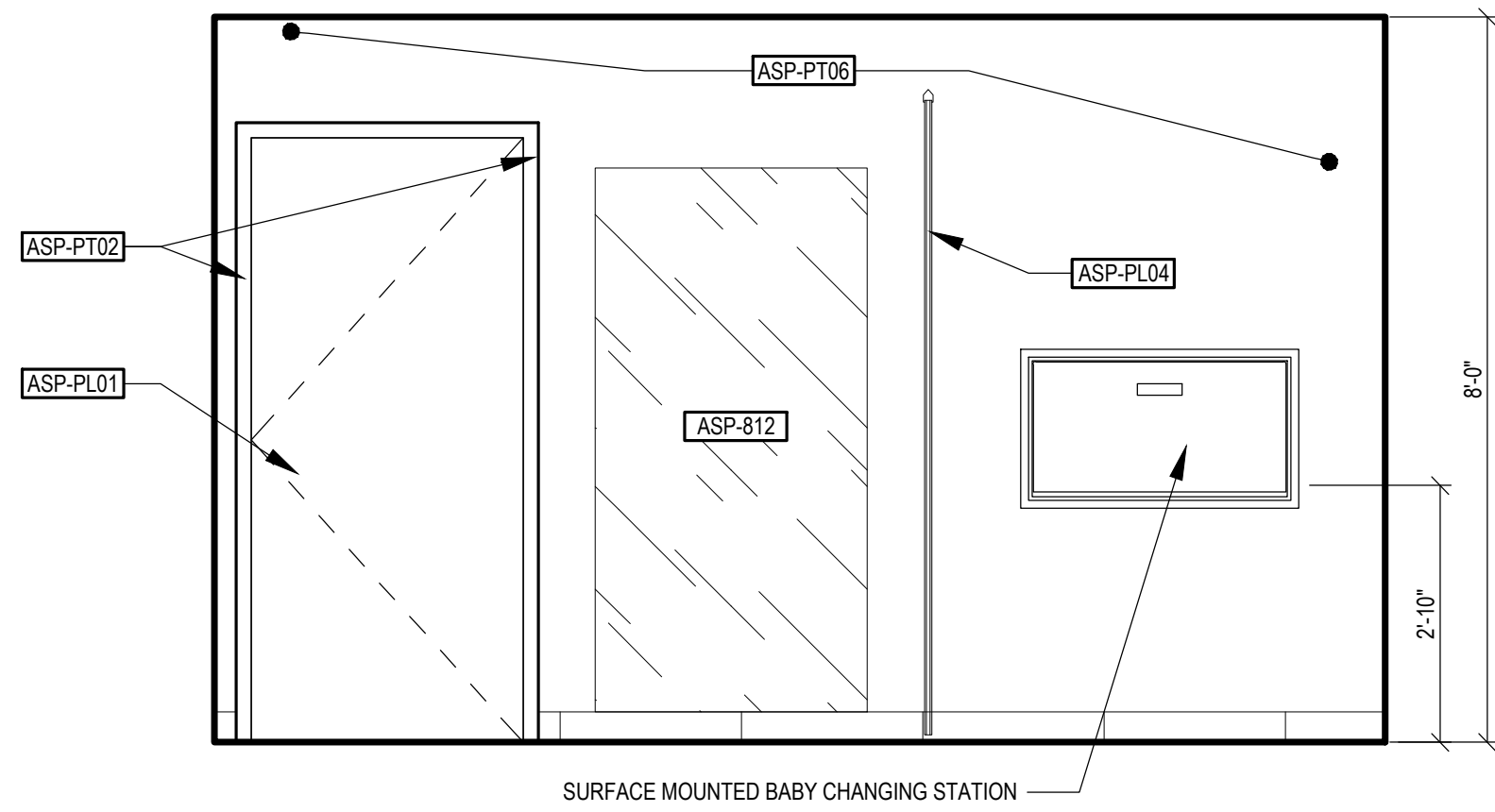
17 ELEVATOR LOBBY 3&4 FLOORS ELEVATION
SCALE: 1/4" = 1'-0"



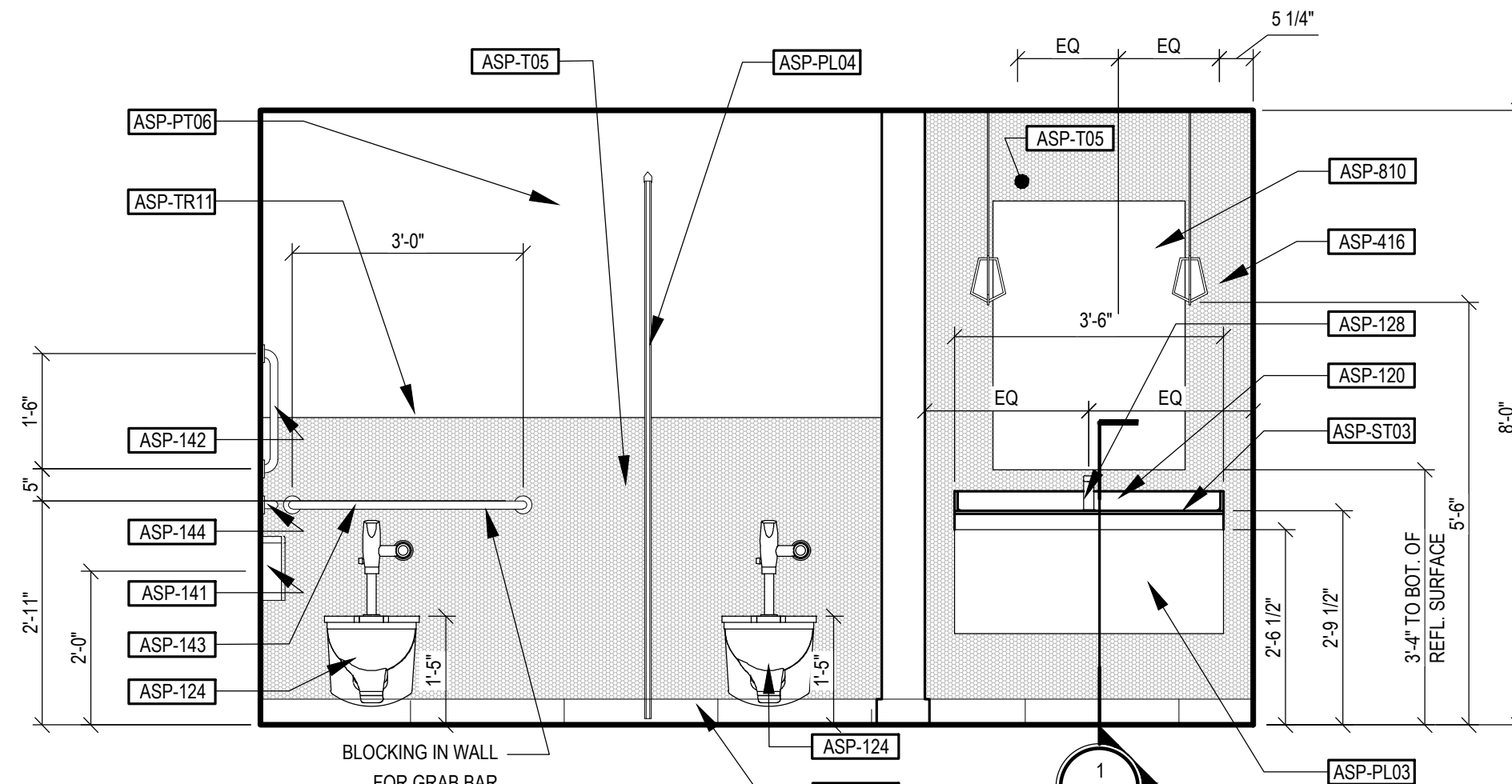
17 ELEVATOR LOBBY 3&4 FLOORS ELEVATION
SCALE: 1/4" = 1'-0"



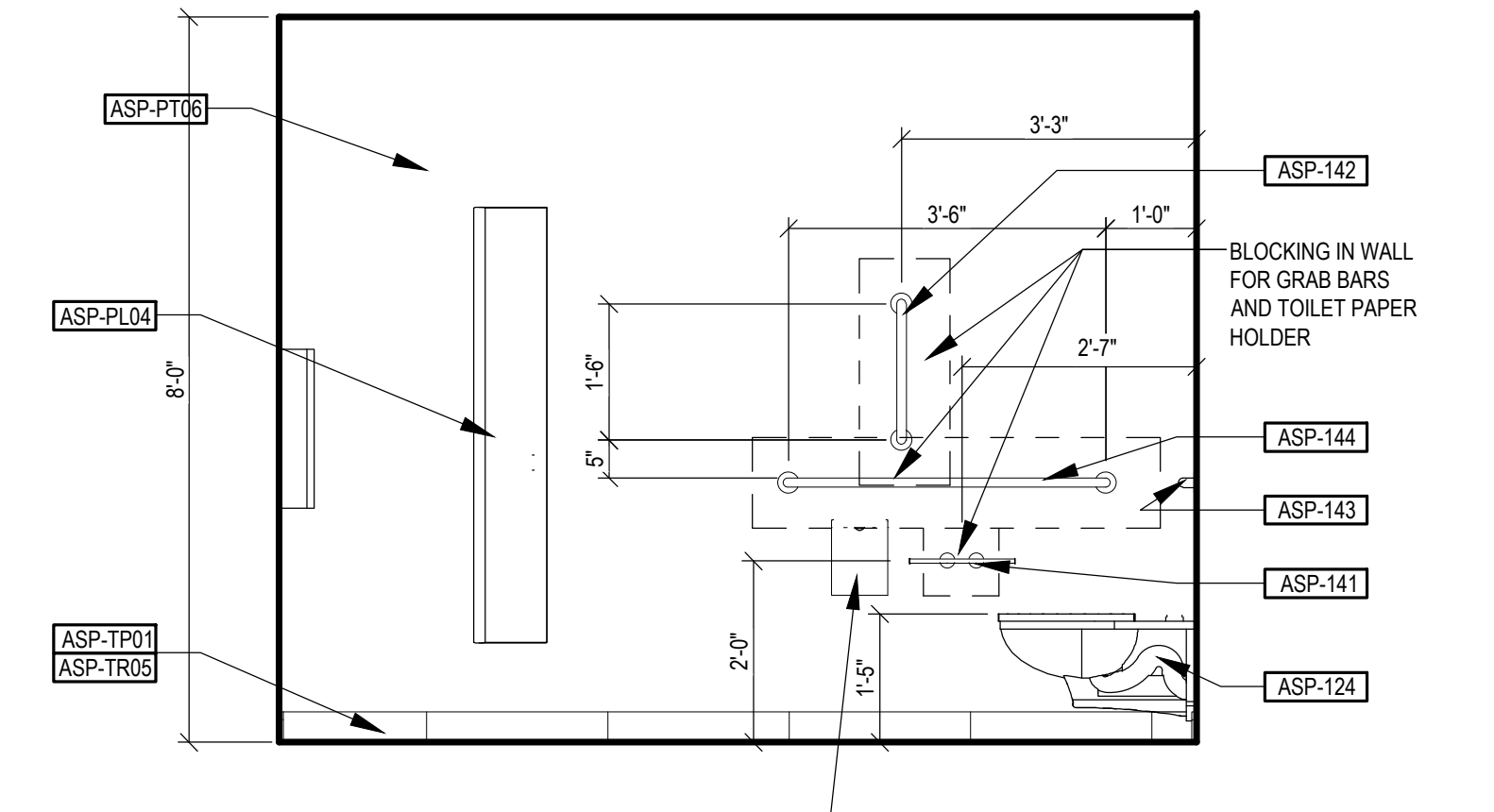
1 WOMENS RESTROOM ELEVATION
SCALE: 1/2" = 1'-0"



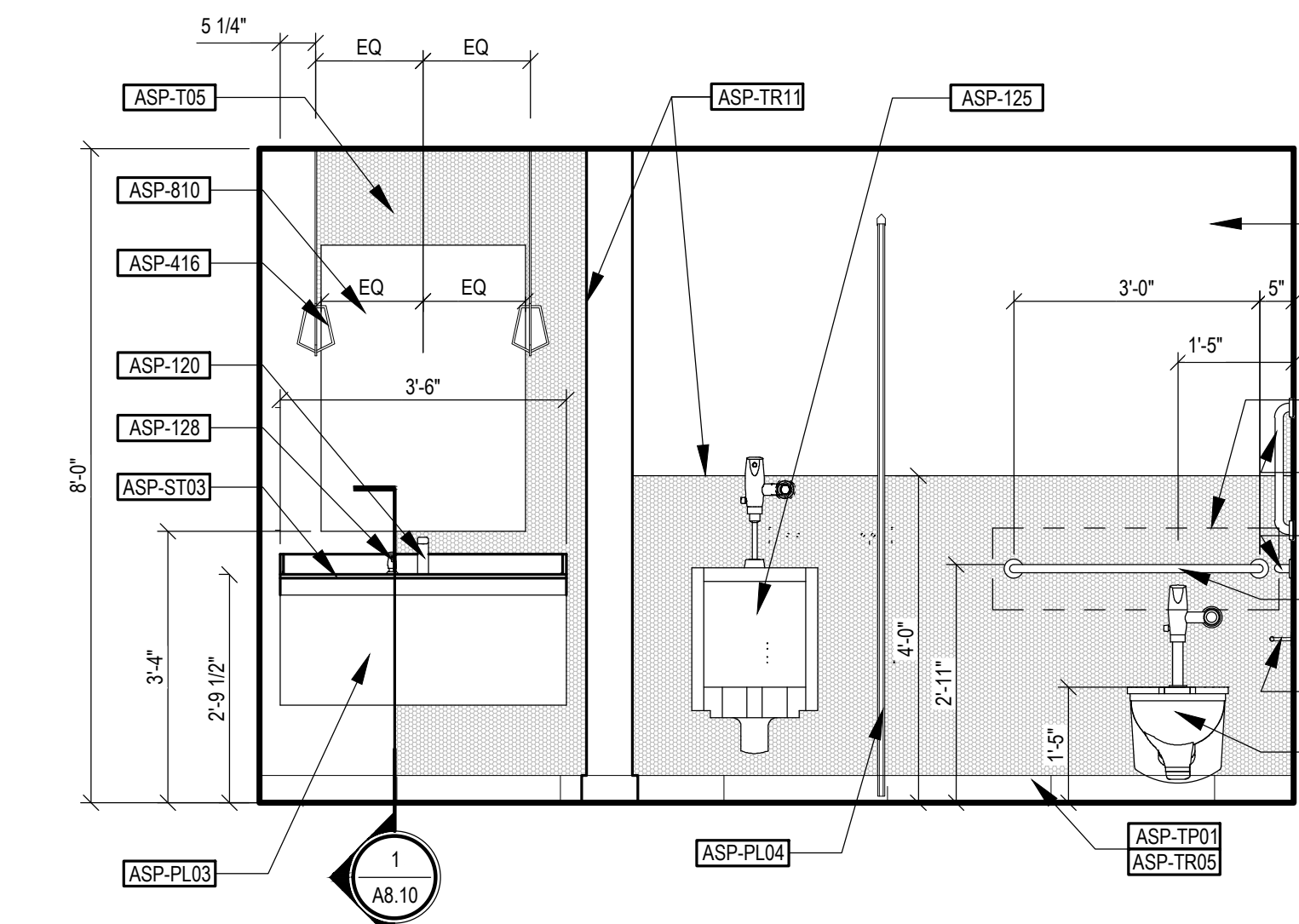
2 WOMENS RESTROOM ELEVATION
SCALE: 1/2" = 1'-0"



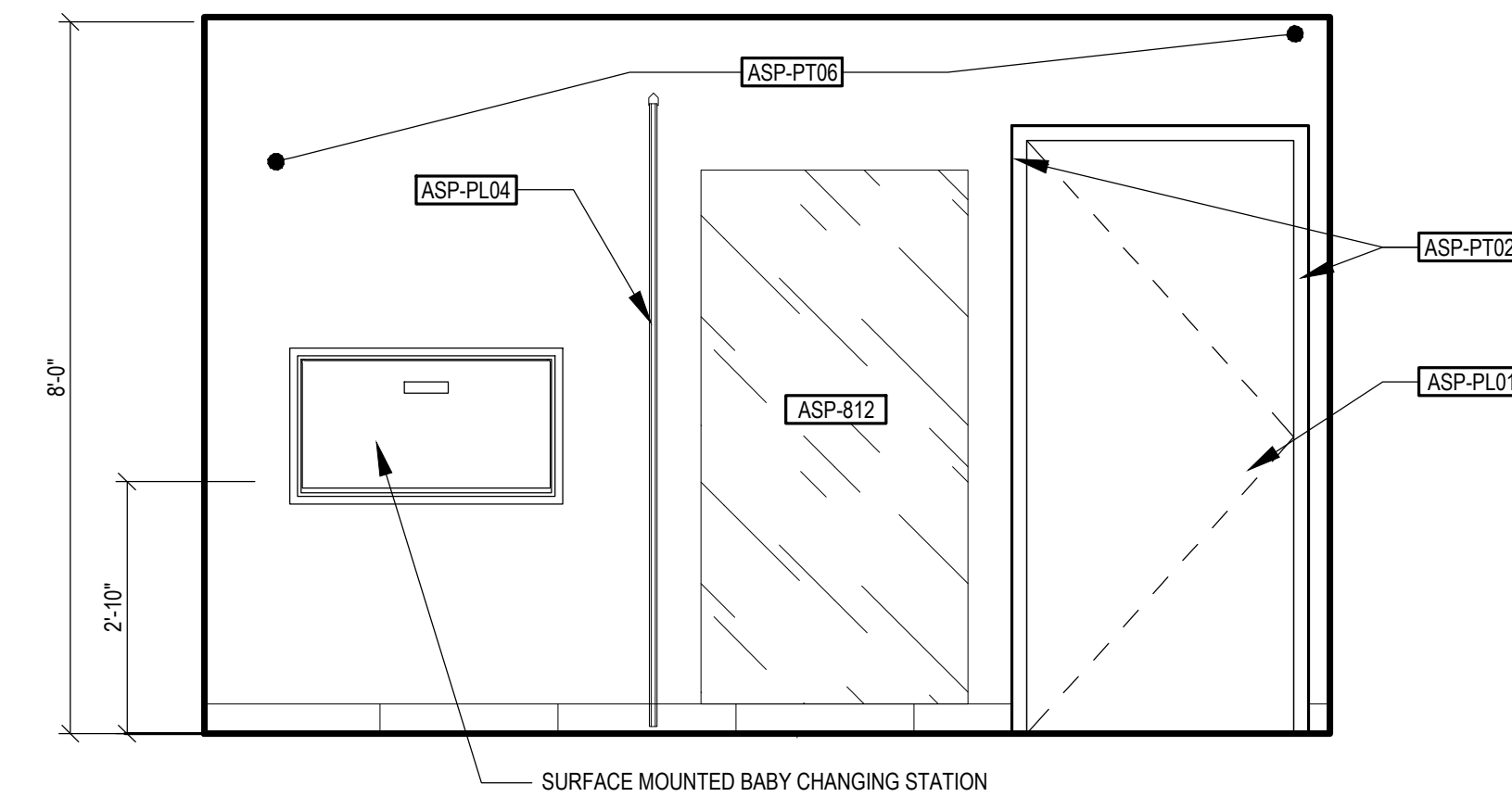
3 WOMENS RESTROOM ELEVATION
SCALE: 1/2" = 1'-0"



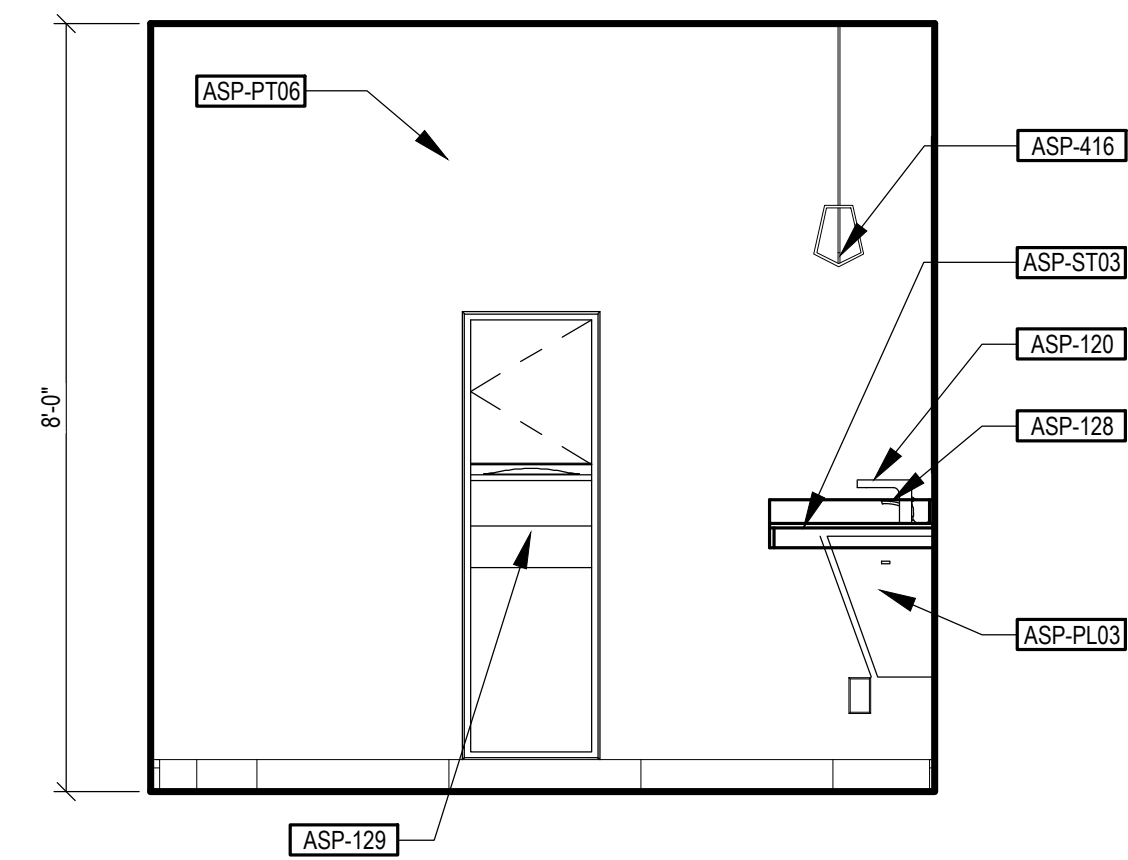
4 WOMENS RESTROOM ELEVATION
SCALE: 1/2" = 1'-0"



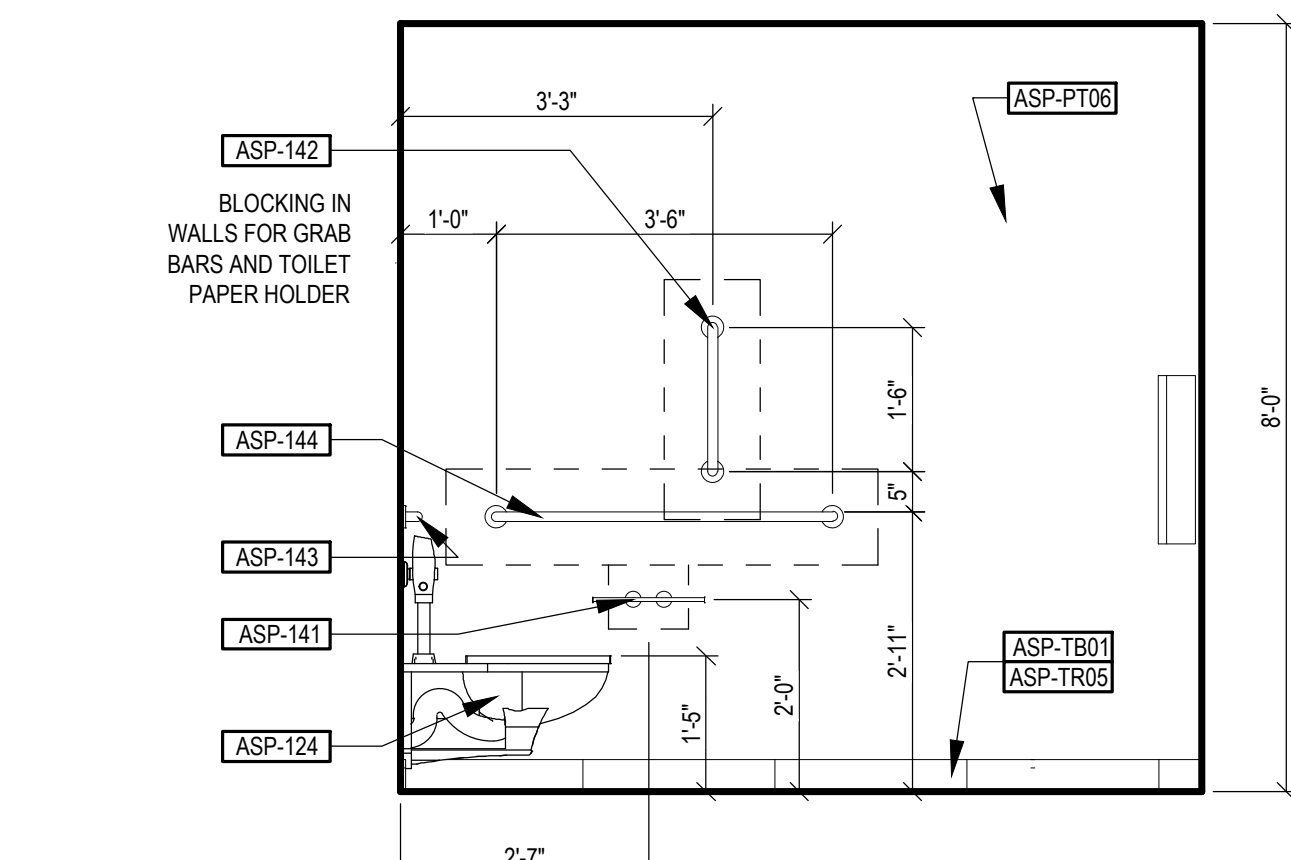
5 MENS RESTROOM ELEVATION
SCALE: 1/2" = 1'-0"



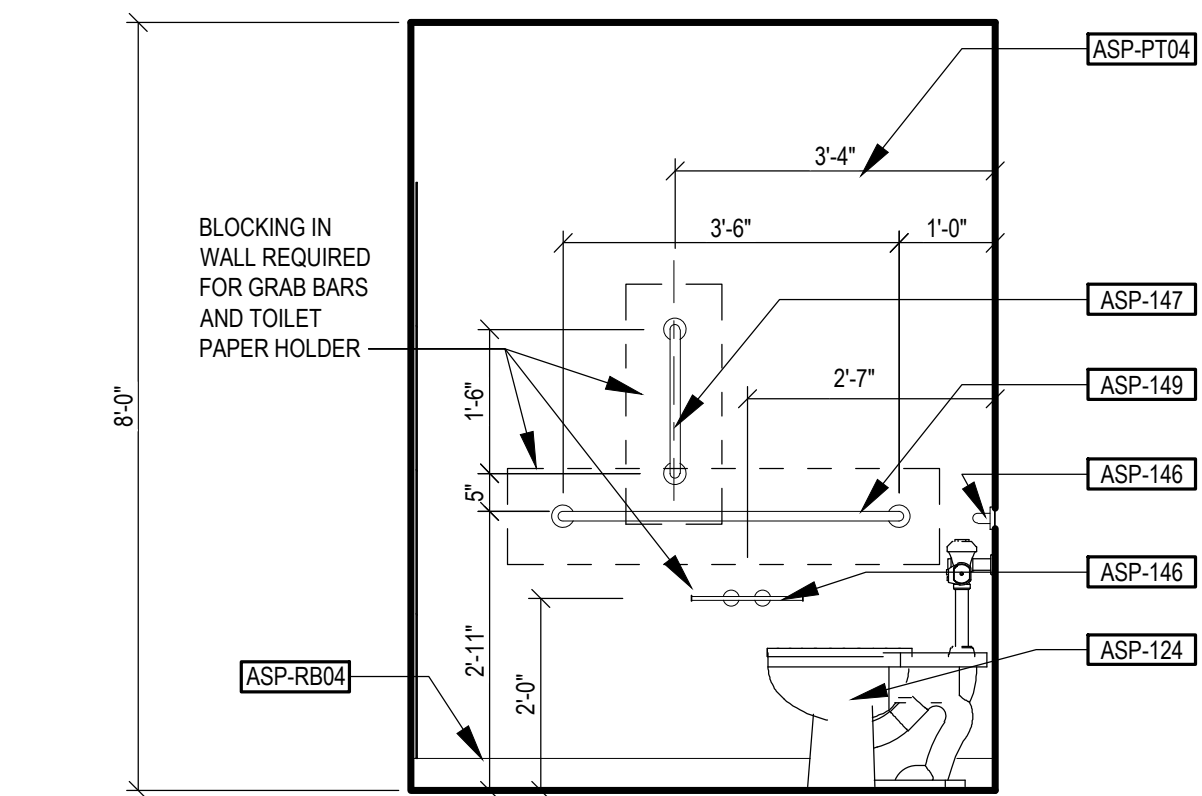
6 MENS RESTROOM SOUTH ELEVATION
SCALE: 1/2" = 1'-0"



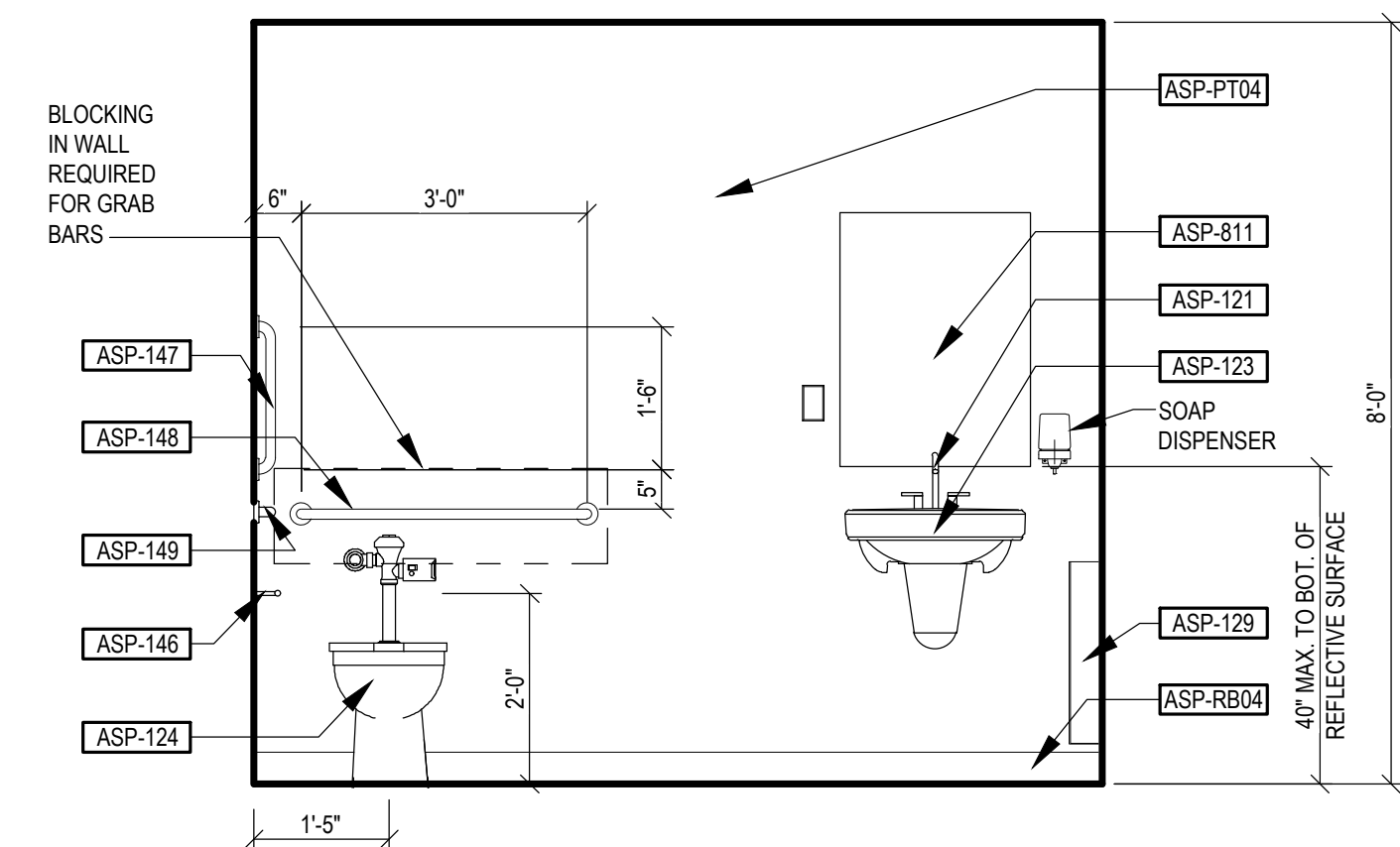
7 MENS RESTROOM SOUTH ELEVATION
SCALE: 1/2" = 1'-0"



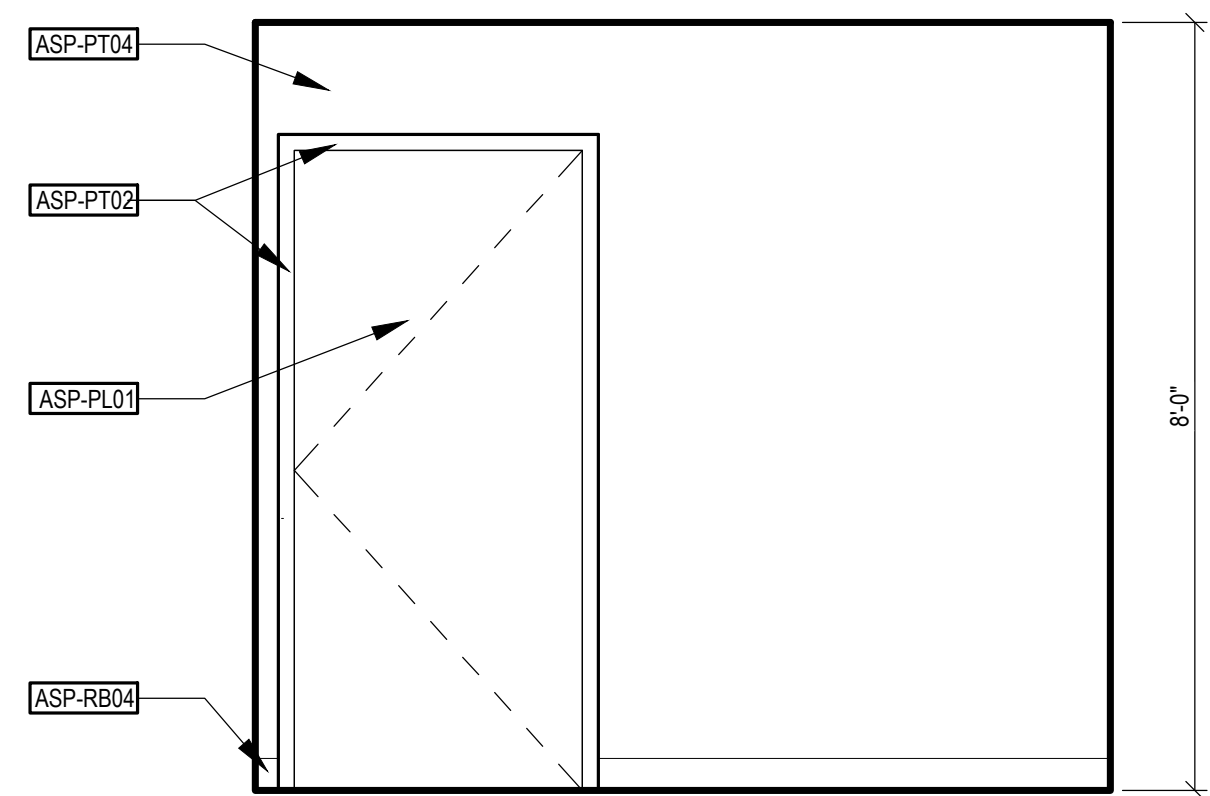
8 MENS RESTROOM WEST ELEVATION
SCALE: 1/2" = 1'-0"



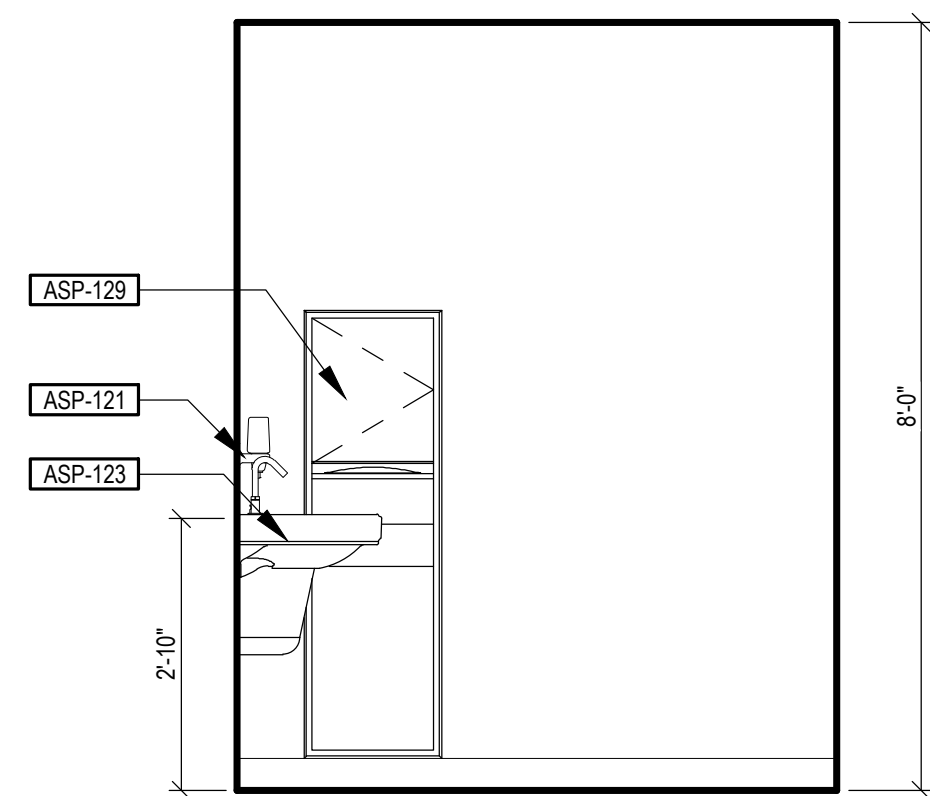
9 EMPLOYEE RR ELEVATION
SCALE: 1/2" = 1'-0"



10 EMPLOYEE RR EAST ELEVATION
SCALE: 1/2" = 1'-0"



11 EMPLOYEE RR SOUTH ELEVATION
SCALE: 1/2" = 1'-0"



12 EMPLOYEE RR WEST ELEVATION
SCALE: 1/2" = 1'-0"

STEVEN MICHAEL ROBERTS
REGISTERED PROFESSIONAL ARCHITECT
STATE OF INDIANA
No. AR12100093
EXPIRATION DATE 12/31/2024

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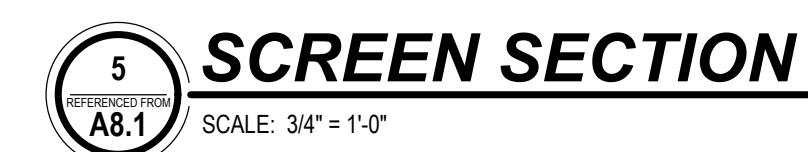
PUBLIC INTERIOR ELEVATIONS

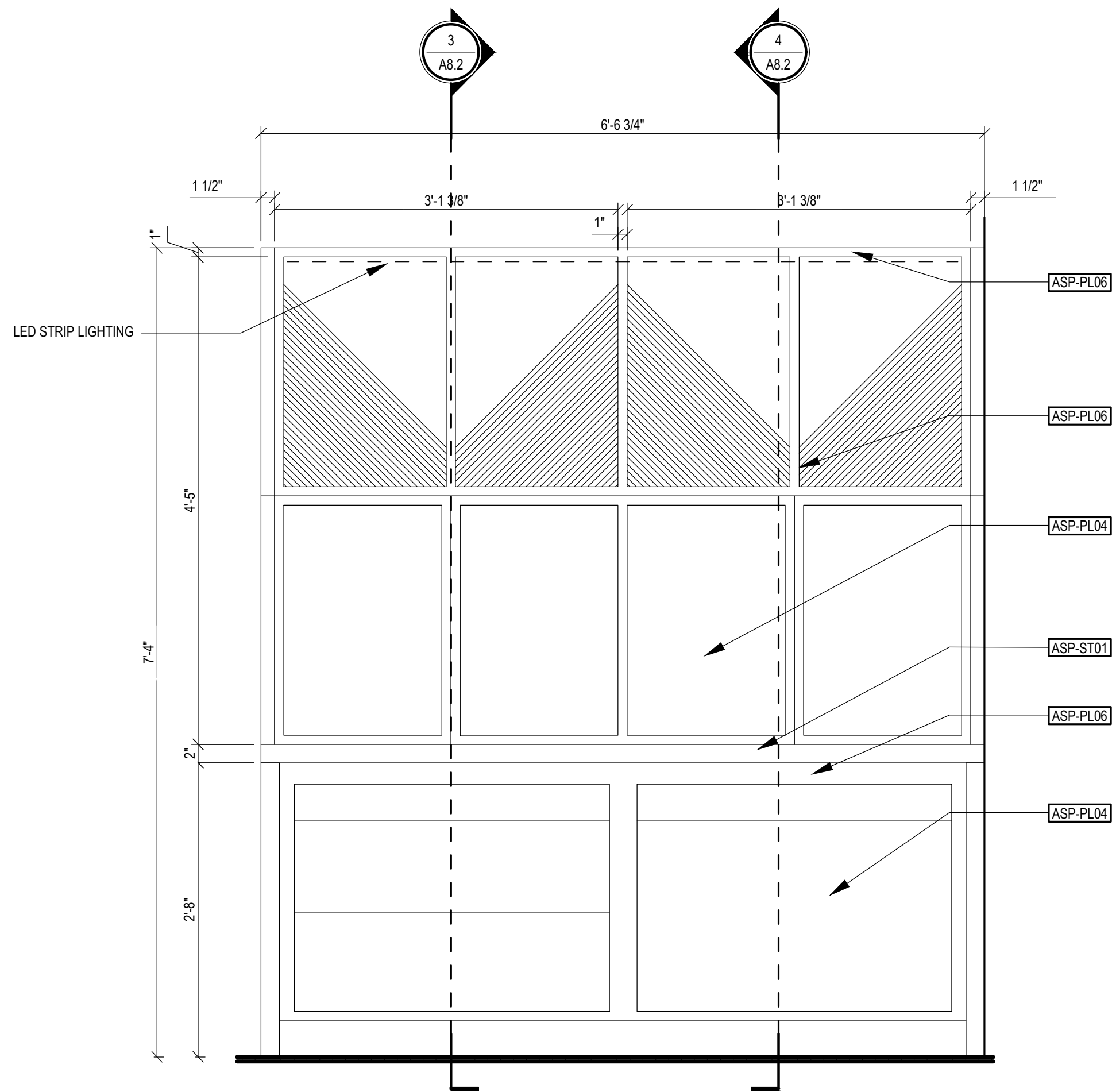
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- 01/26/2024 FOR CONSTRUCTION

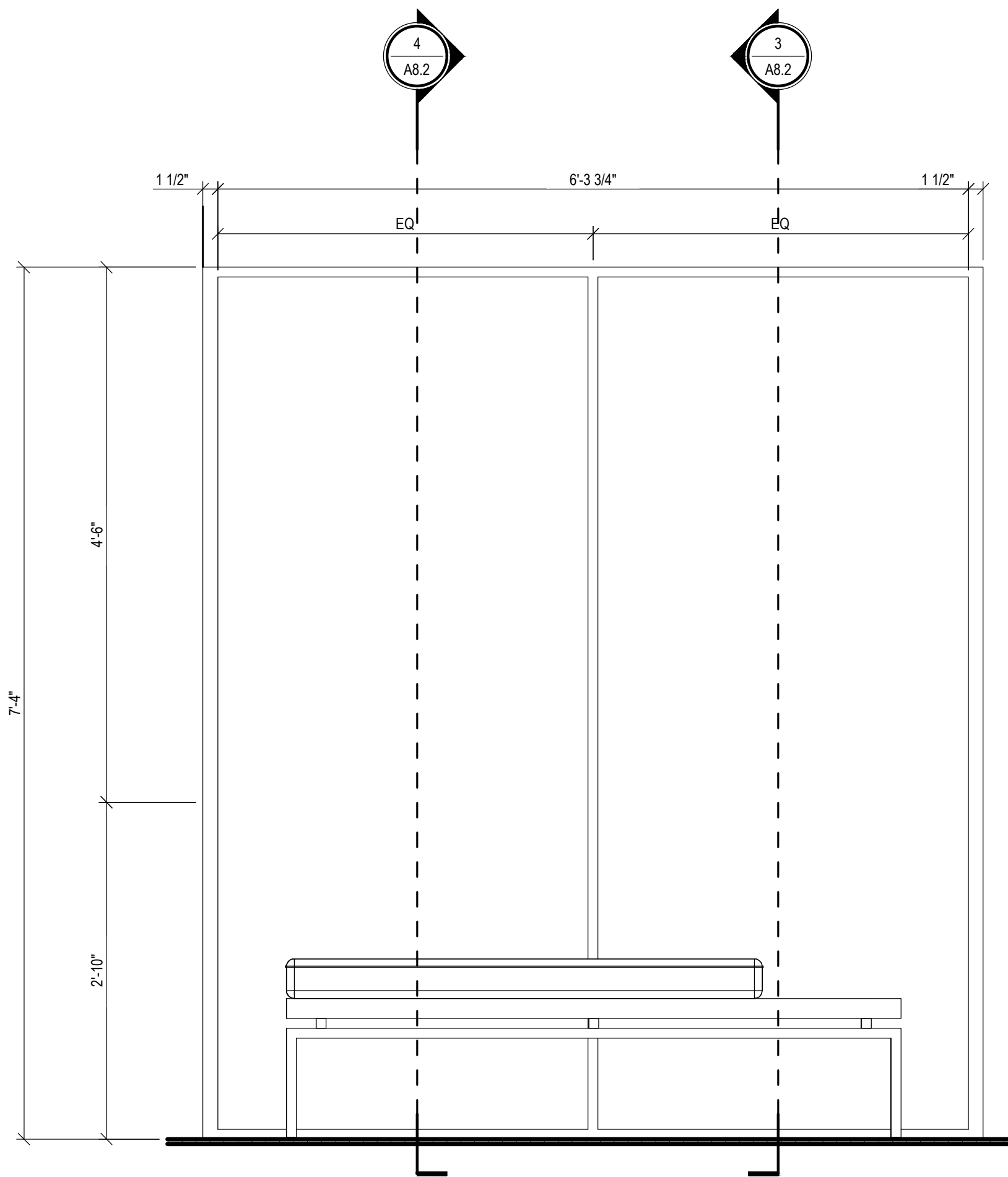
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A7.4

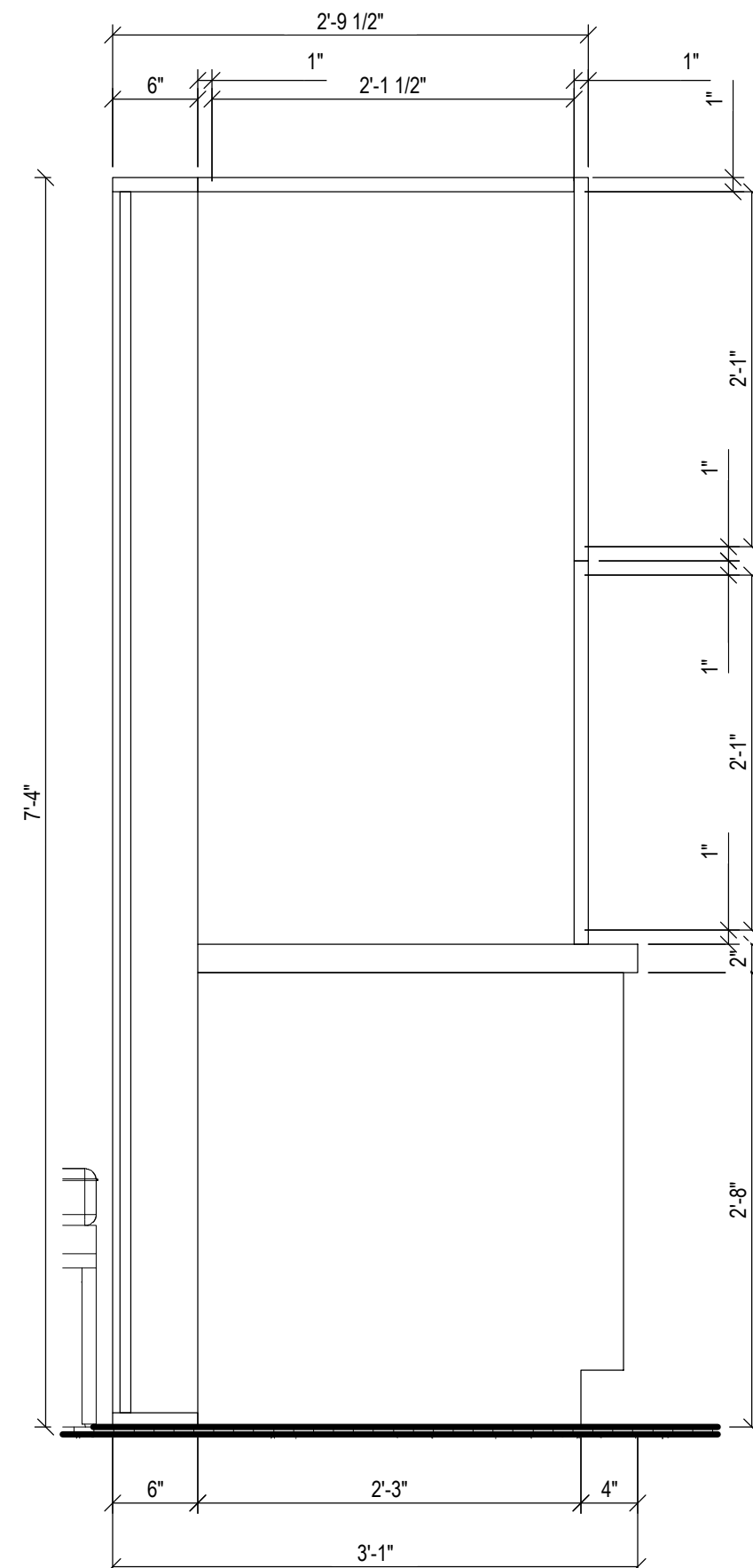




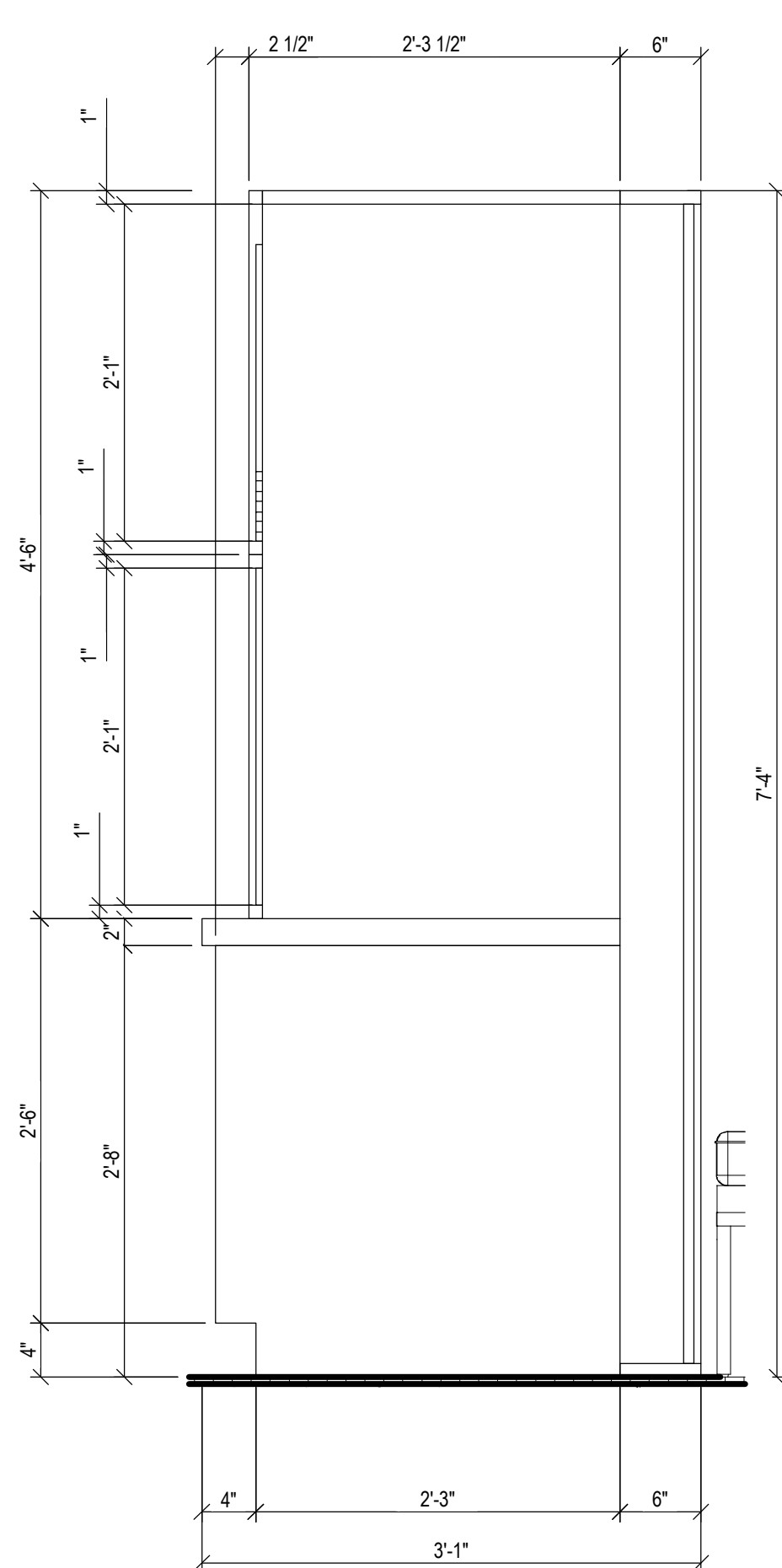
1
BREAKFAST MILLWORK SOUTH ELEVATION
SCALE: 1" = 1'-0"



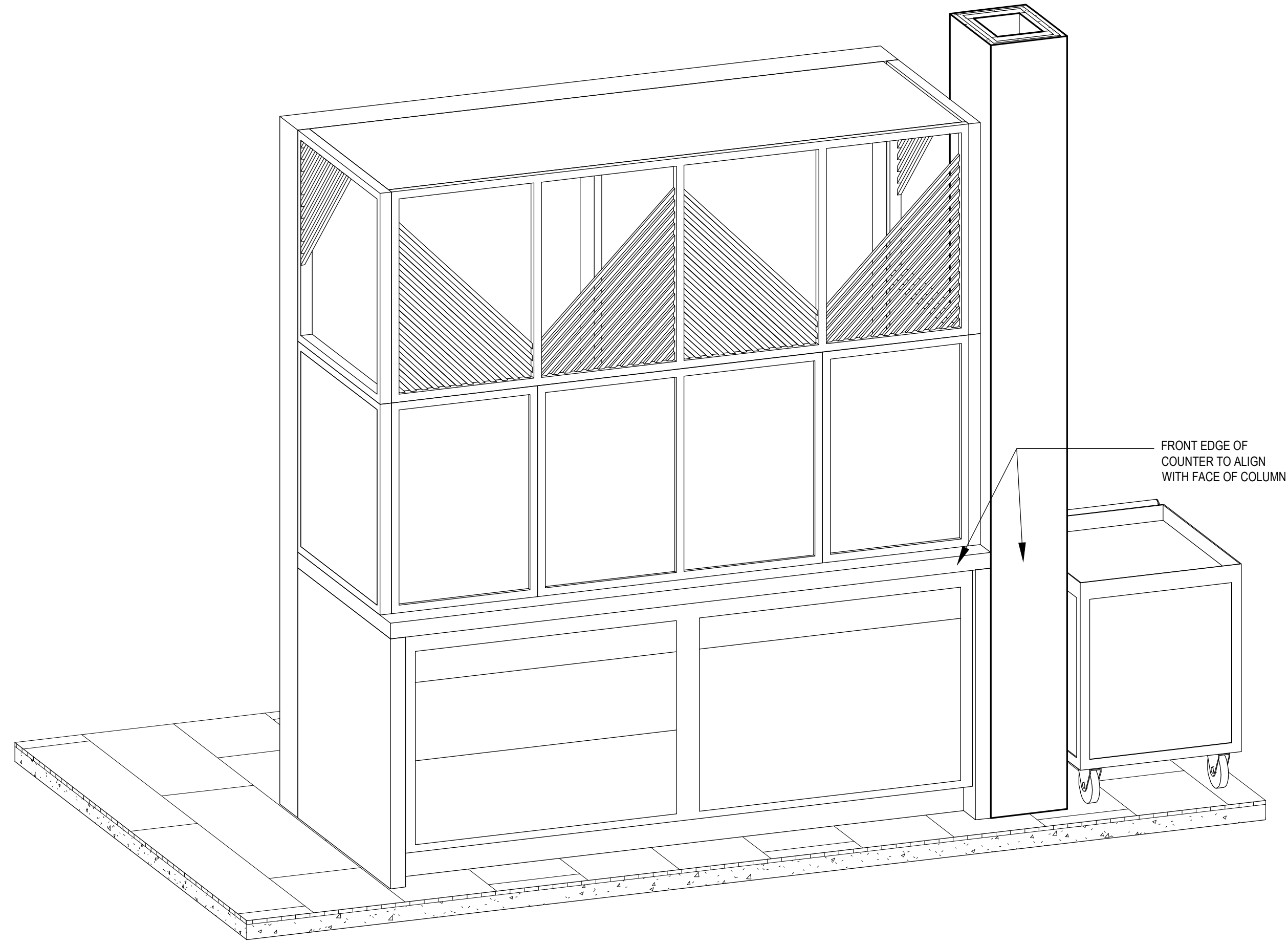
2
BREAKFAST MILLWORK SHELIVING
AND DOORS SECTION
SCALE: 1" = 1'-0"



3
BREAKFAST MILLWORK SECTION
SCALE: 1" = 1'-0"

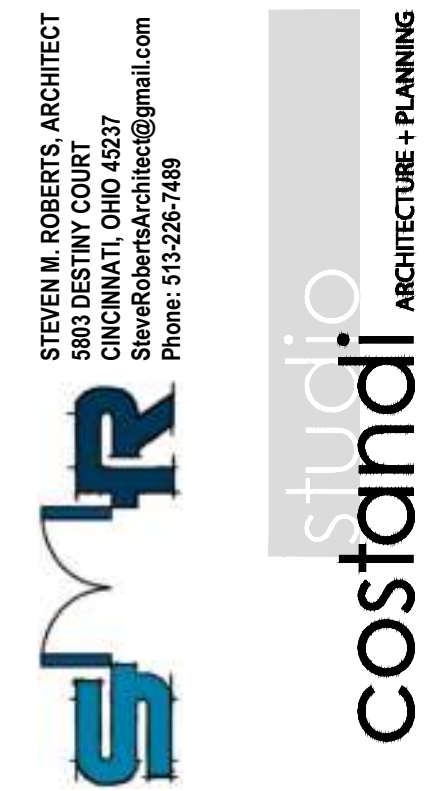


4
BREAKFAST MILLWORK SHELIVING
AND DOORS SECTION
SCALE: 1" = 1'-0"



5
3D VIEW OF BREAKFAST MILLWORK
SCALE: N/A

FOR REFERENCE ONLY

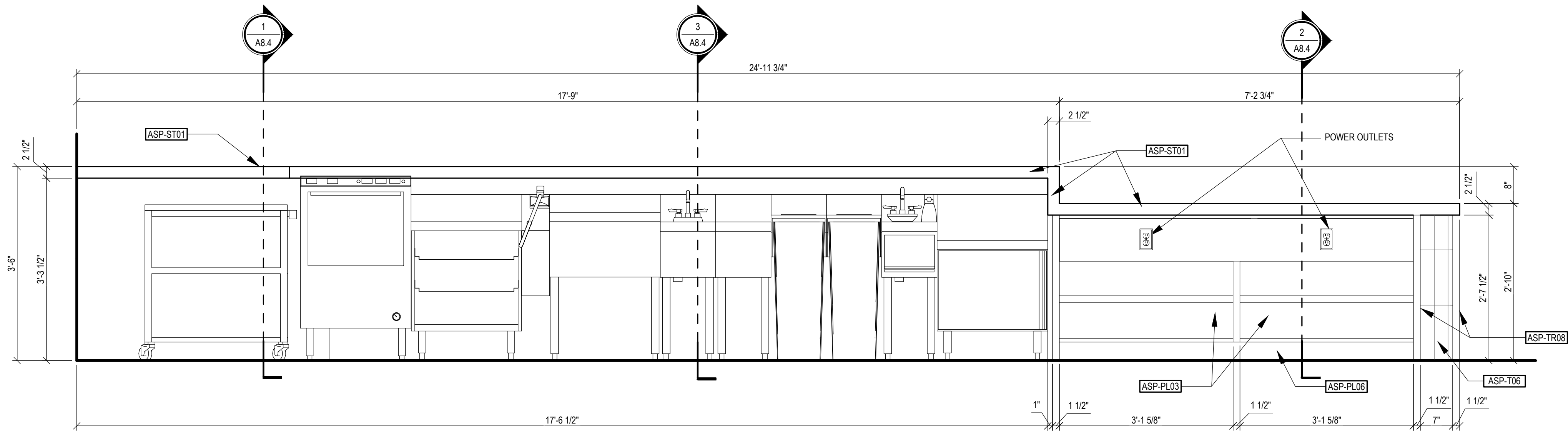


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BREAKFAST DETAILS

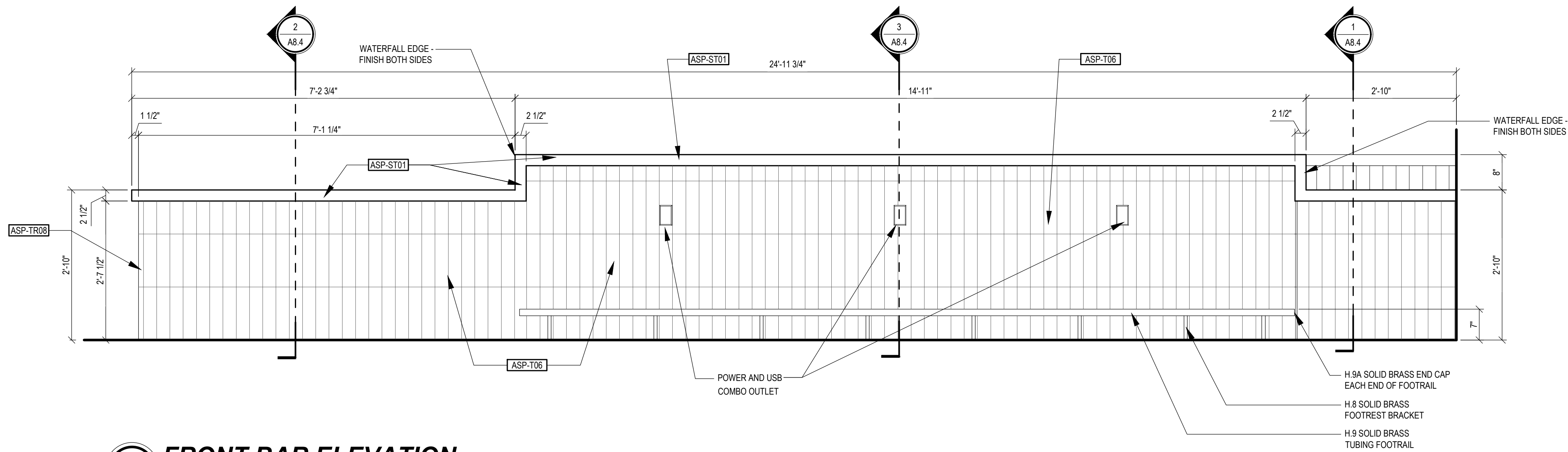
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SMR Project No. **AWSFIN**

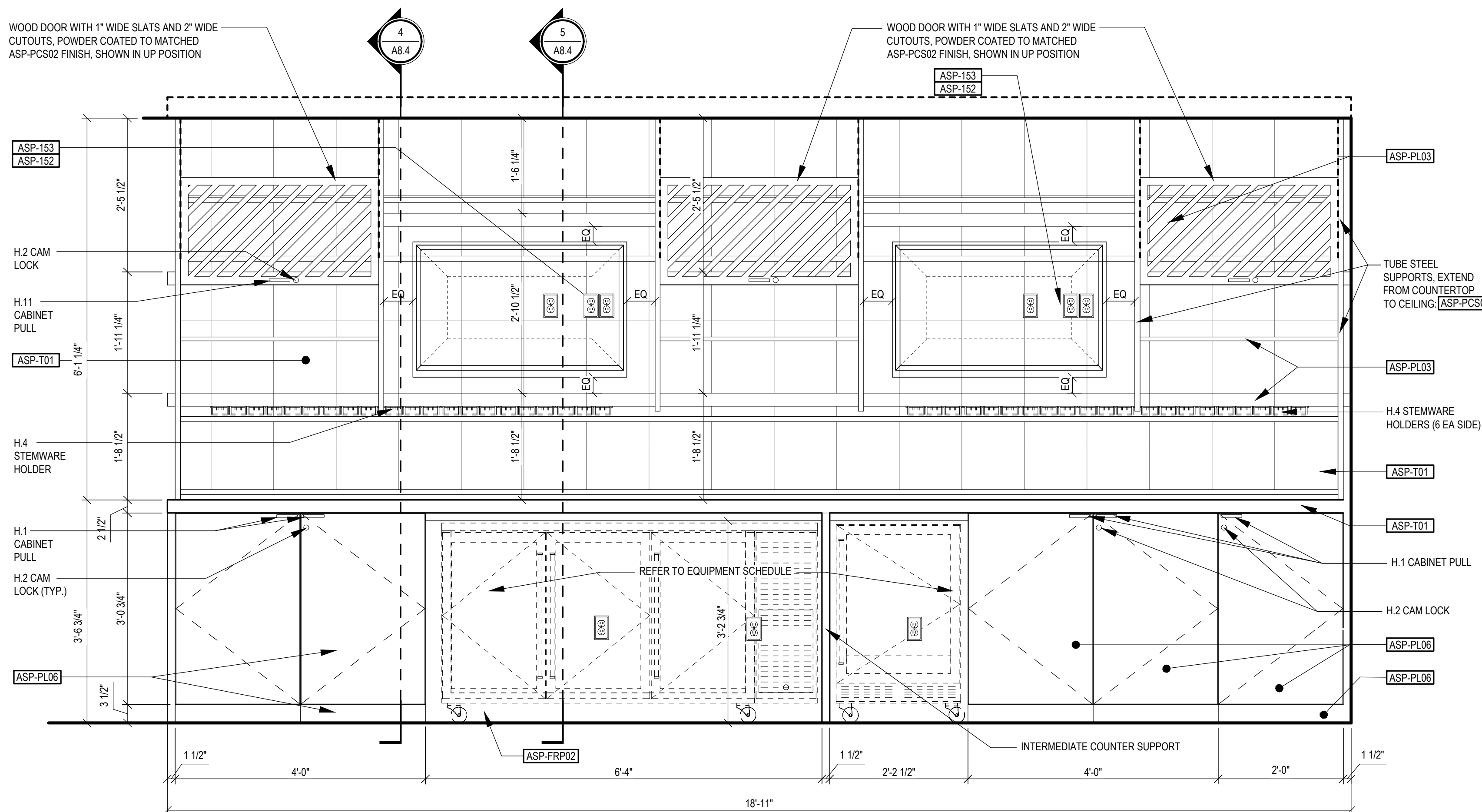
A8.2



3 REAR BAR ELEVATION
SCALE: 3/4" = 1'-0"



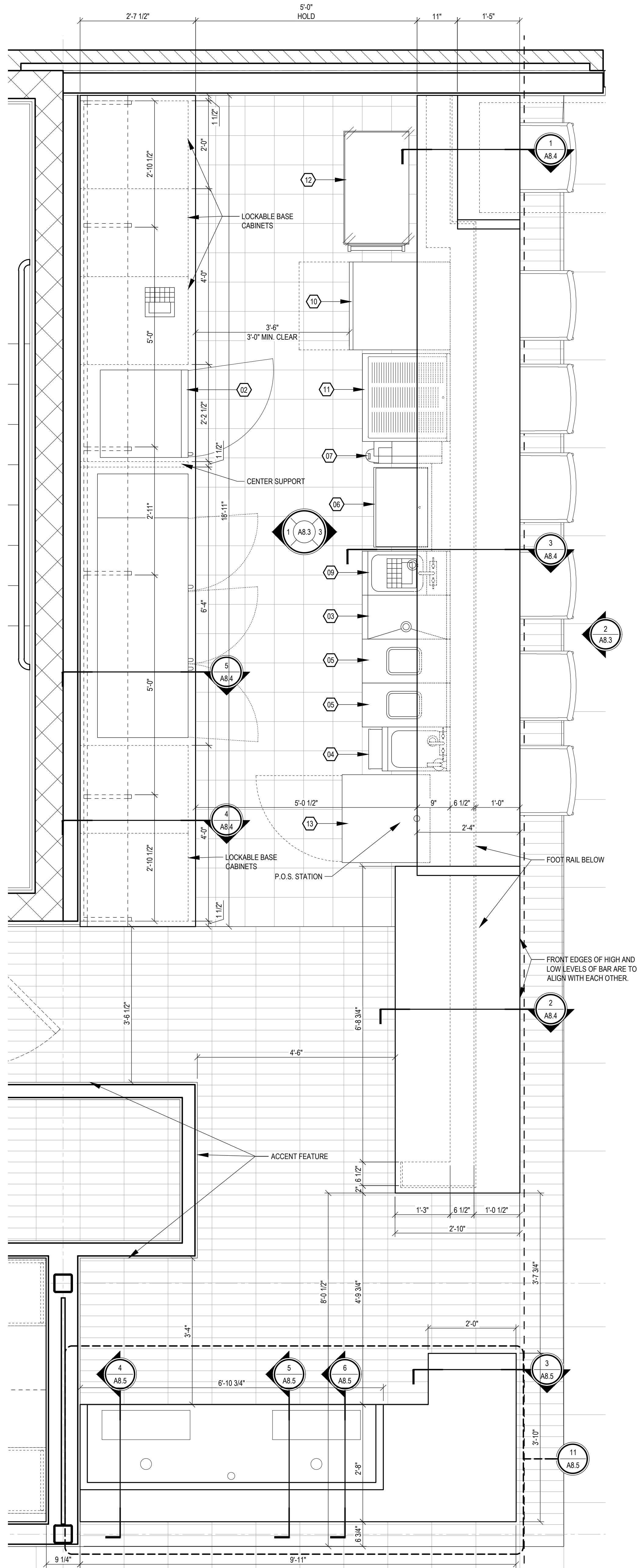
2 FRONT BAR ELEVATION
SCALE: 3/4" = 1'-0"



1 BACK BAR ELEVATION
SCALE: 3/4" = 1'-0"

FOOD SERVICE EQUIPMENT SCHEDULE - BAR					
ITEM NO.	QTY.	DESCRIPTION	ELECTRICAL CONN.	PLUMB. CONN.	REMARKS
01	1	SELF-CONTAINED BACK BAR NARROW 3-DOOR REFRIGERATOR	120V/60/1, NEMA 5-15P, 6.3A	NO	
02	1	SINGLE DOOR REFRIGERATOR	115V/60/1, NEMA 5-15P, 1.6A (Running)	NO	
03	1	STANDARD DRAINBOARD	-	YES	
04	1	ONE TANK HAND SINK WITH SOAP AND TOWEL DISPENSERS	-	YES	
05	2	TRASH CAN	-	NO	
06	1	COCKTAIL STATION ICE CHEST	-	YES	
07	1	SODA GUN FILLER SECTION	-	NO	OPTIONAL
09	1	DUMP SINK	-	YES	
10	1	WAREWASHER, UNDERCOUNTER, HIGH TEMP	240V/60/1, 36A	YES	
11	1	STORAGE BIN FOR GLASSWARE WITH TOP AND 2 GLASS RACK SLIDES	-	NO	
12	1	CART, UTILITY	-	NO	
13	1	STORAGE CABINET WITH FULL DRAINBOARD TOP AT TS DEPTH	-	NO	

NOTE: EQUIPMENT SPECIFICATIONS ARE AVAILABLE AT www.IHGDesignConnect.com.



4 ENLARGED PLAN BAR & RECEPTION
SCALE: 3/4" = 1'-0"

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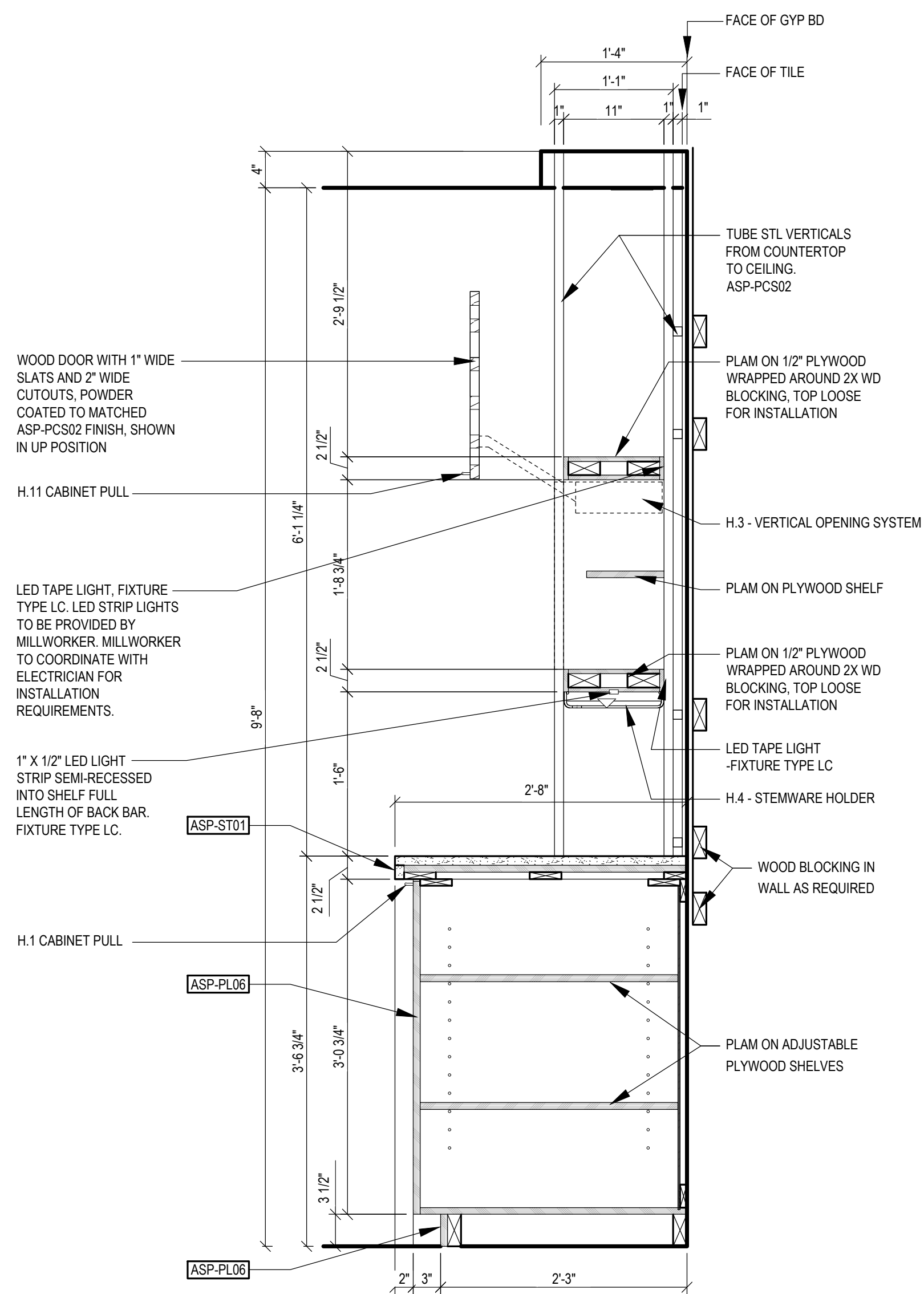
BAR & RECEPTION DETAILS

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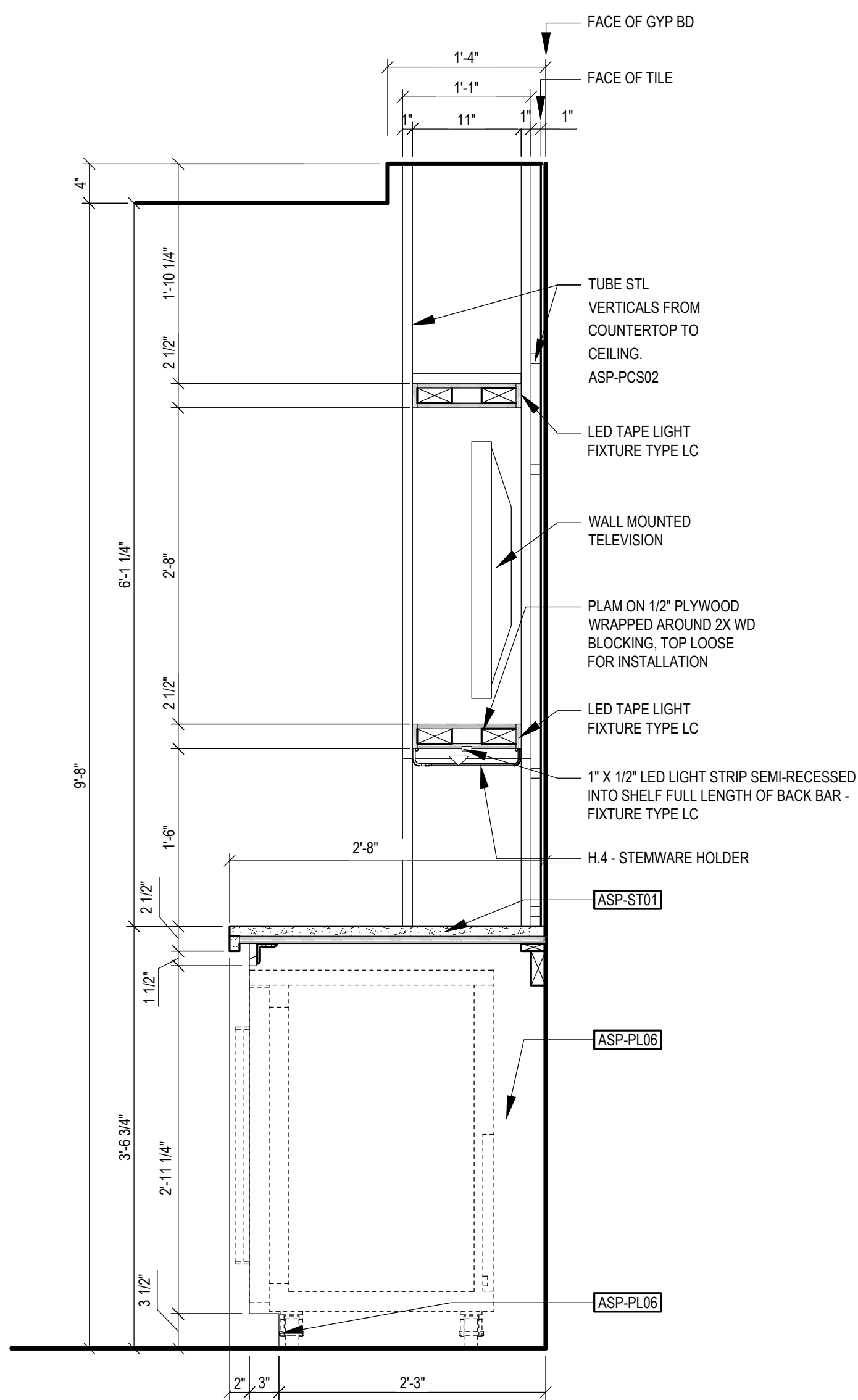
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A8.3

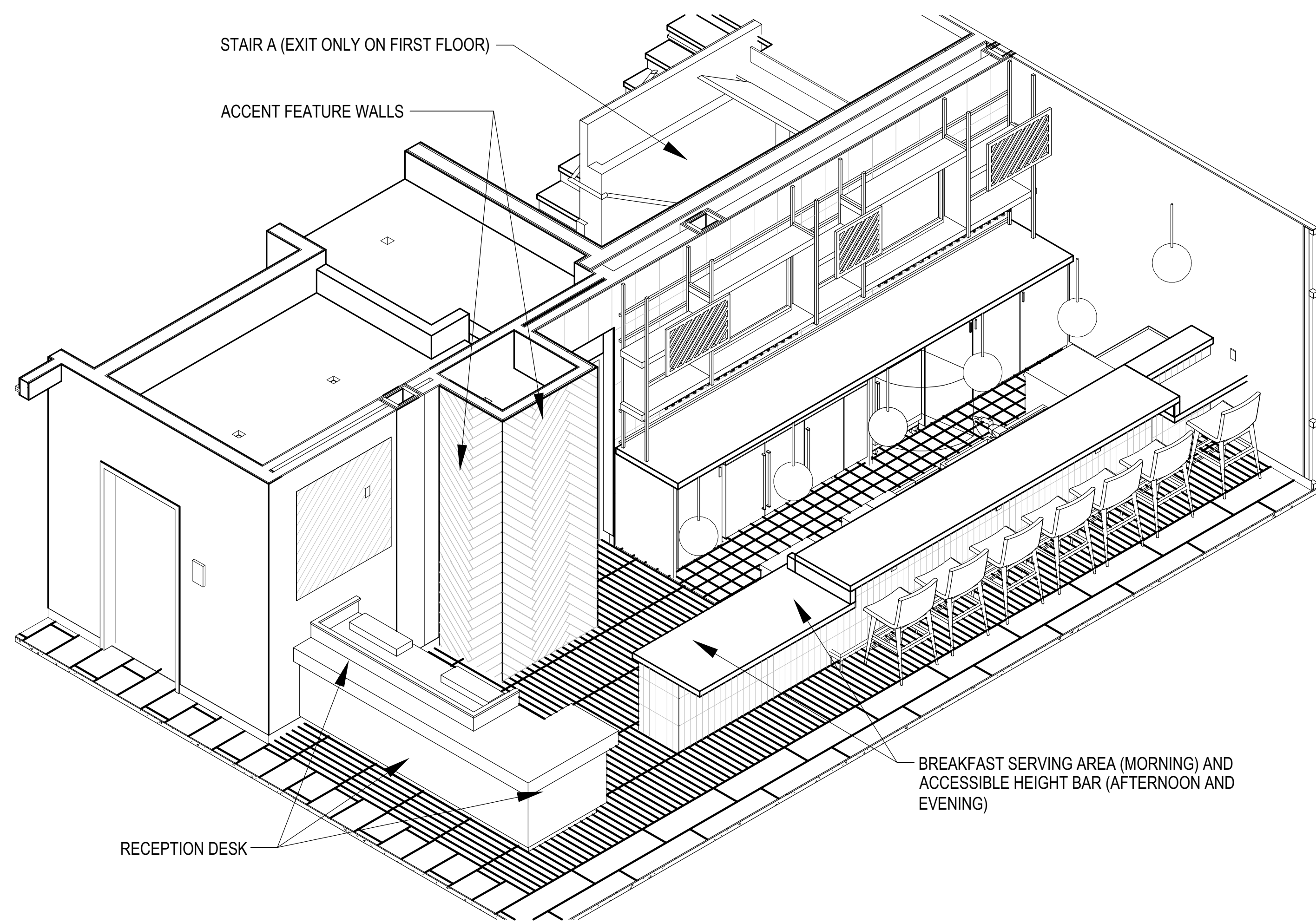
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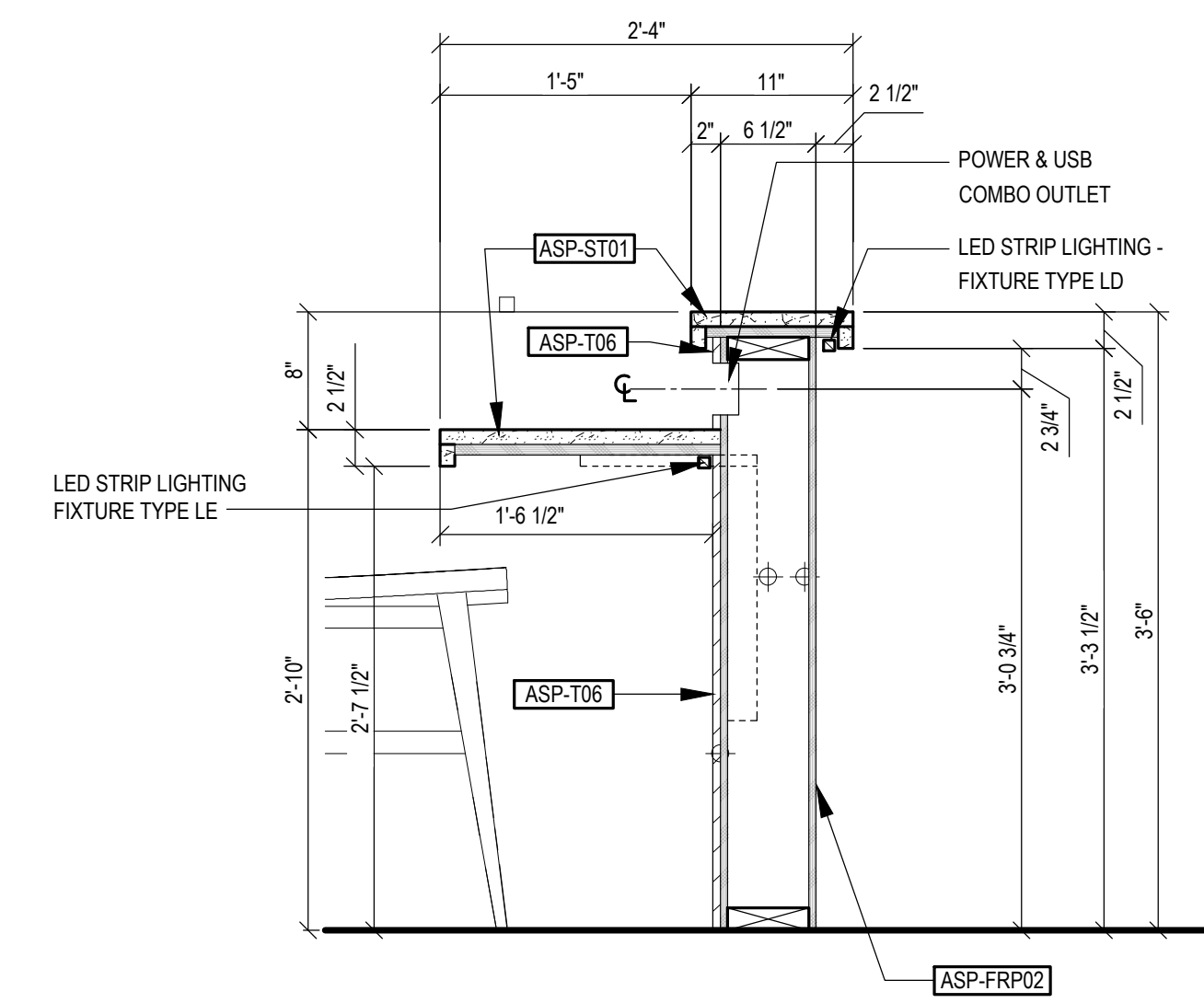
4 BAR BACK SECTION
SCALE: 1" = 1'-0"



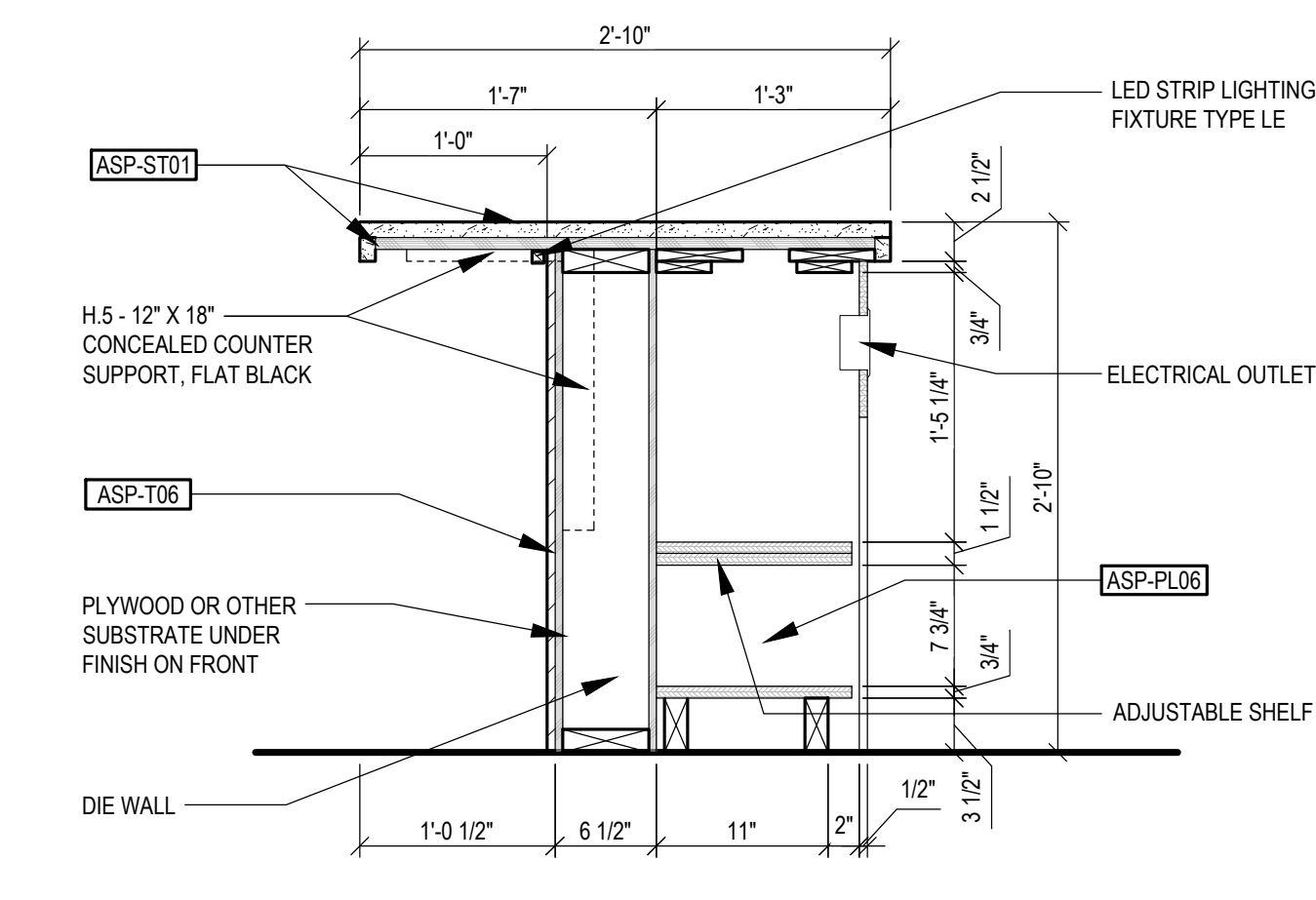
5 BAR BACK SECTION AT TV
SCALE: 1" = 1'-0"



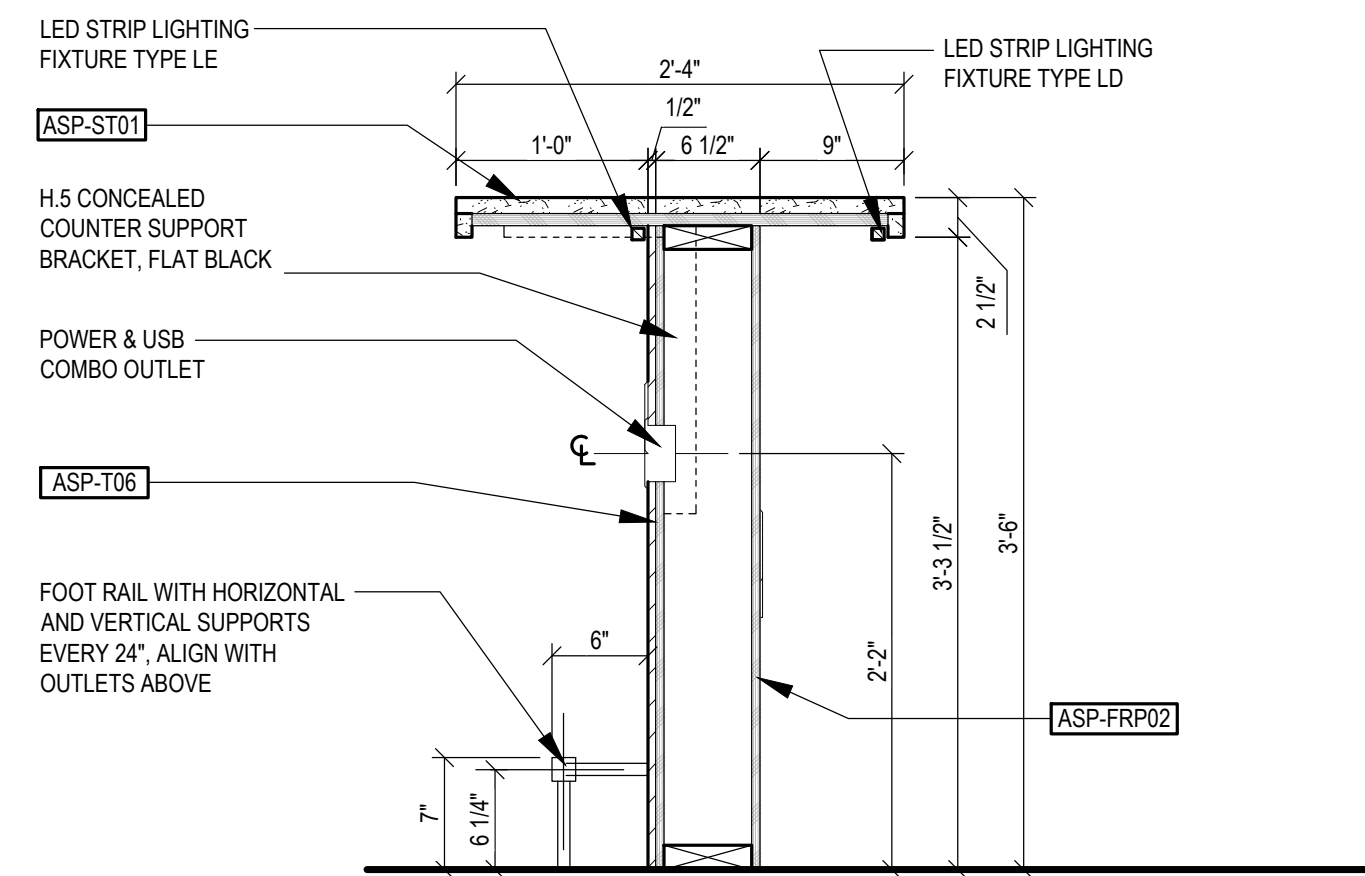
6 3D VIEW OF RECEPTION & BAR
SCALE: NA



1 BAR SECTION ACCESSIBLE SEATING
SCALE: 1" = 1'-0"

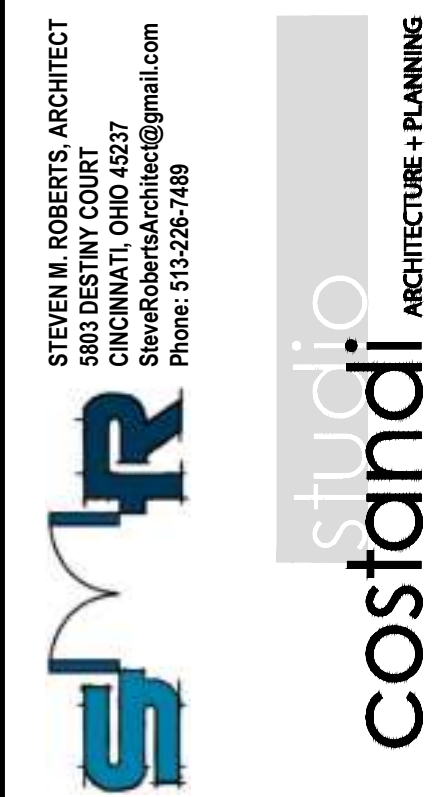


2 BAR SECTION - SERVING AREA
SCALE: 1" = 1'-0"



3 BAR SECTION
SCALE: 1" = 1'-0"

NOTE:
ALL LED TAPE LIGHTS ON THE BACK BAR MILLWORK TO BE PROVIDED AND INSTALLED BY MILLWORKER PRIOR TO FINAL INSTALLATION. MILLWORKER TO COORDINATE WITH ELECTRICIAN FOR INSTALLATION REQUIREMENTS AND LOCATION OF THE JUNCTION BOX. FINAL CONNECTION BY ELECTRICIAN.
LED TAPE LIGHTS ON THE FRONT BAR MAY BE PROVIDED AND INSTALLED BY EITHER THE MILLWORKER OR ELECTRICIAN. COORDINATE INSTALLATION REQUIREMENTS AND LOCATION OF THE JUNCTION BOX. FINAL CONNECTION BY ELECTRICIAN. GC TO COORDINATE.
ALL ELECTRICAL OUTLETS TO BE PROVIDED AND INSTALLED BY ELECTRICIAN

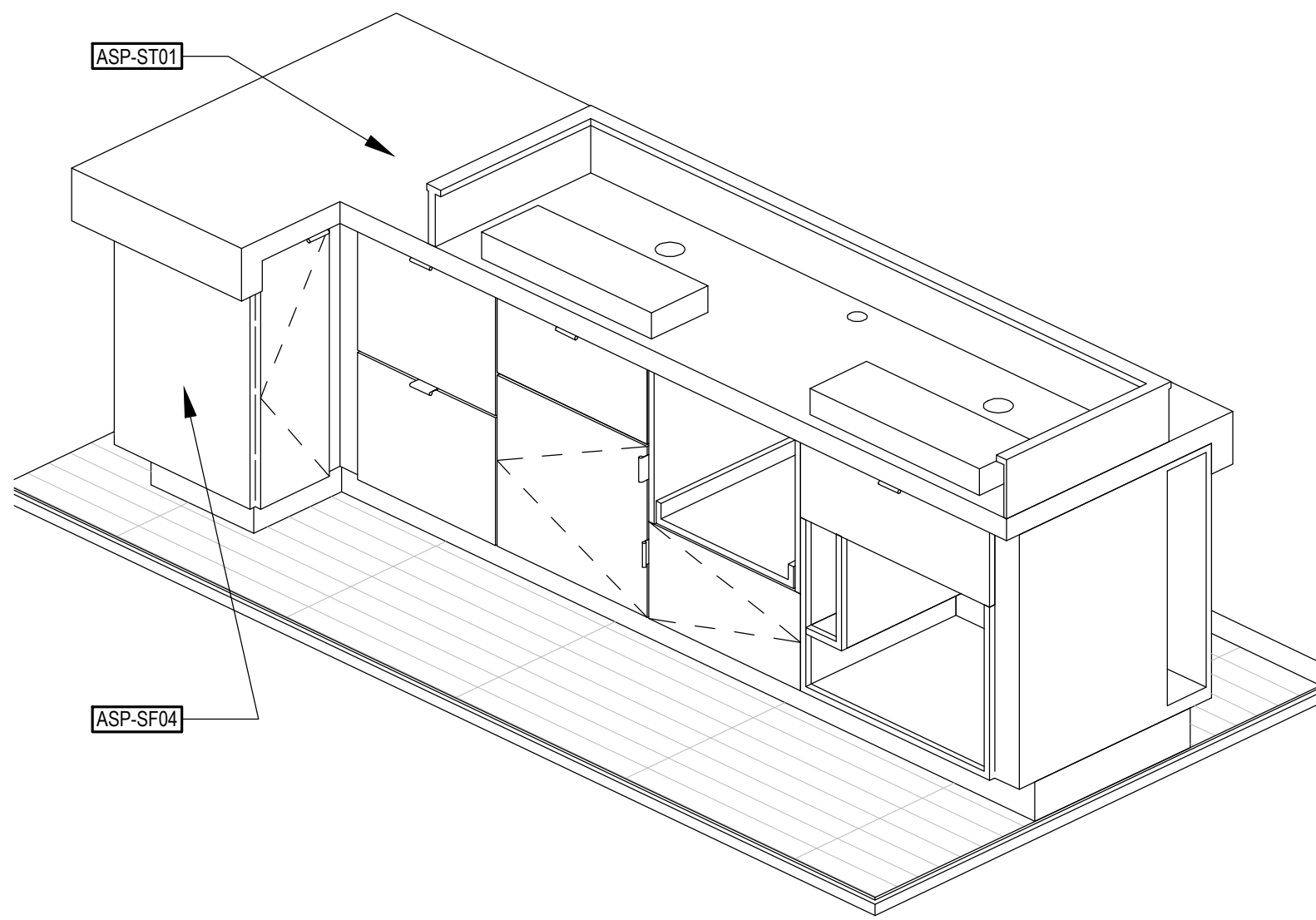


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BAR DETAILS

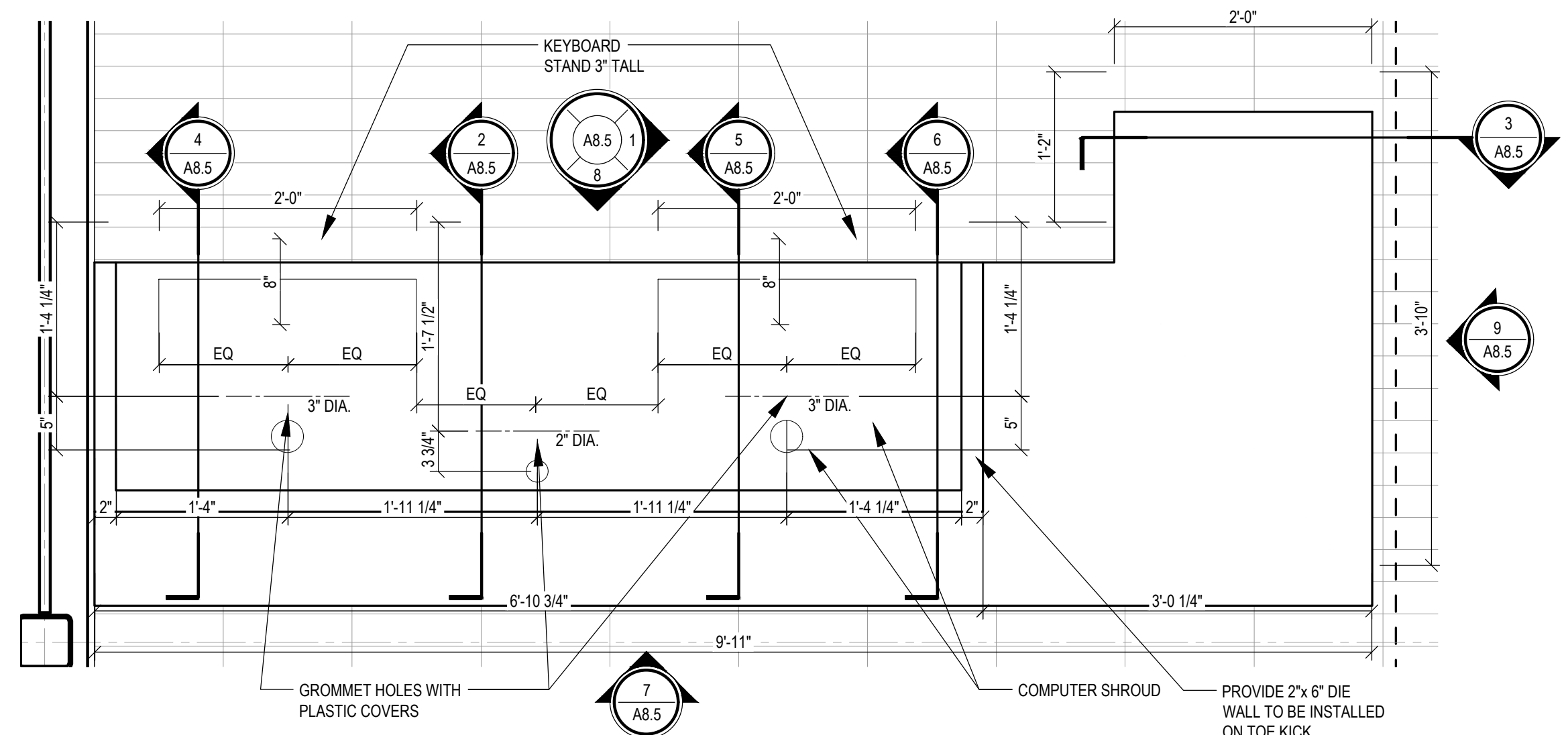
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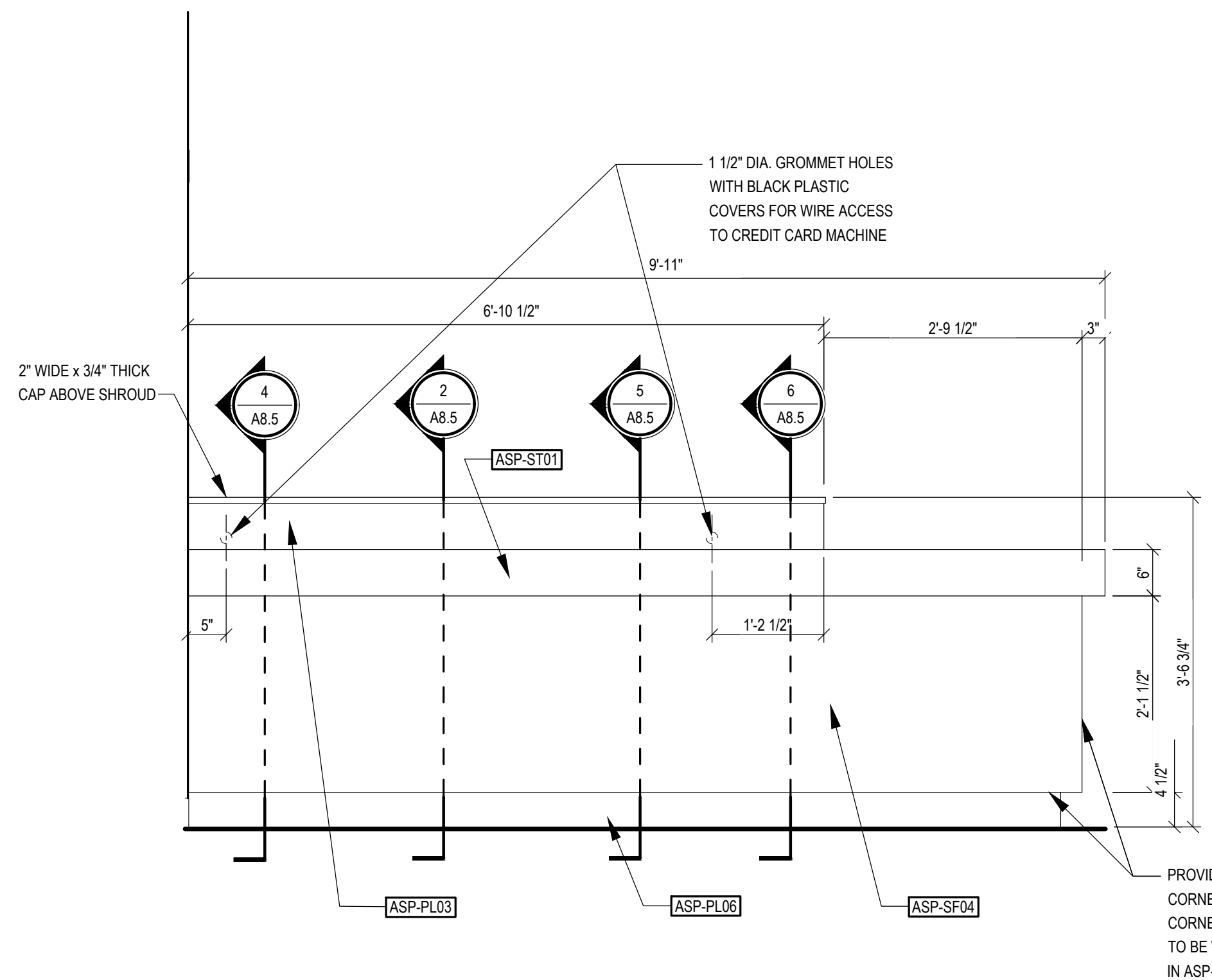
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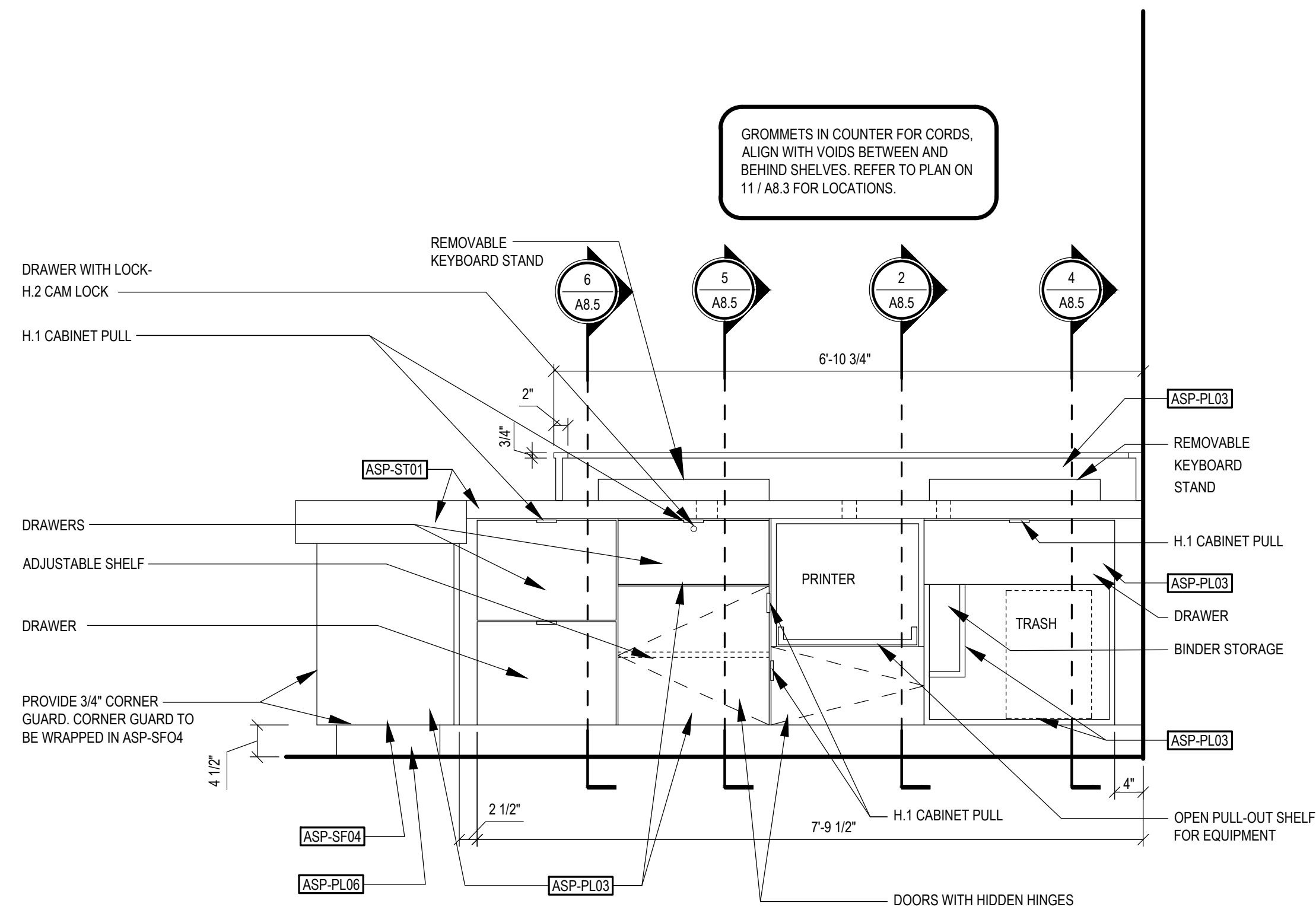
10 RECEPTION/BAR 3D BACK VIEW
SCALE: N/A



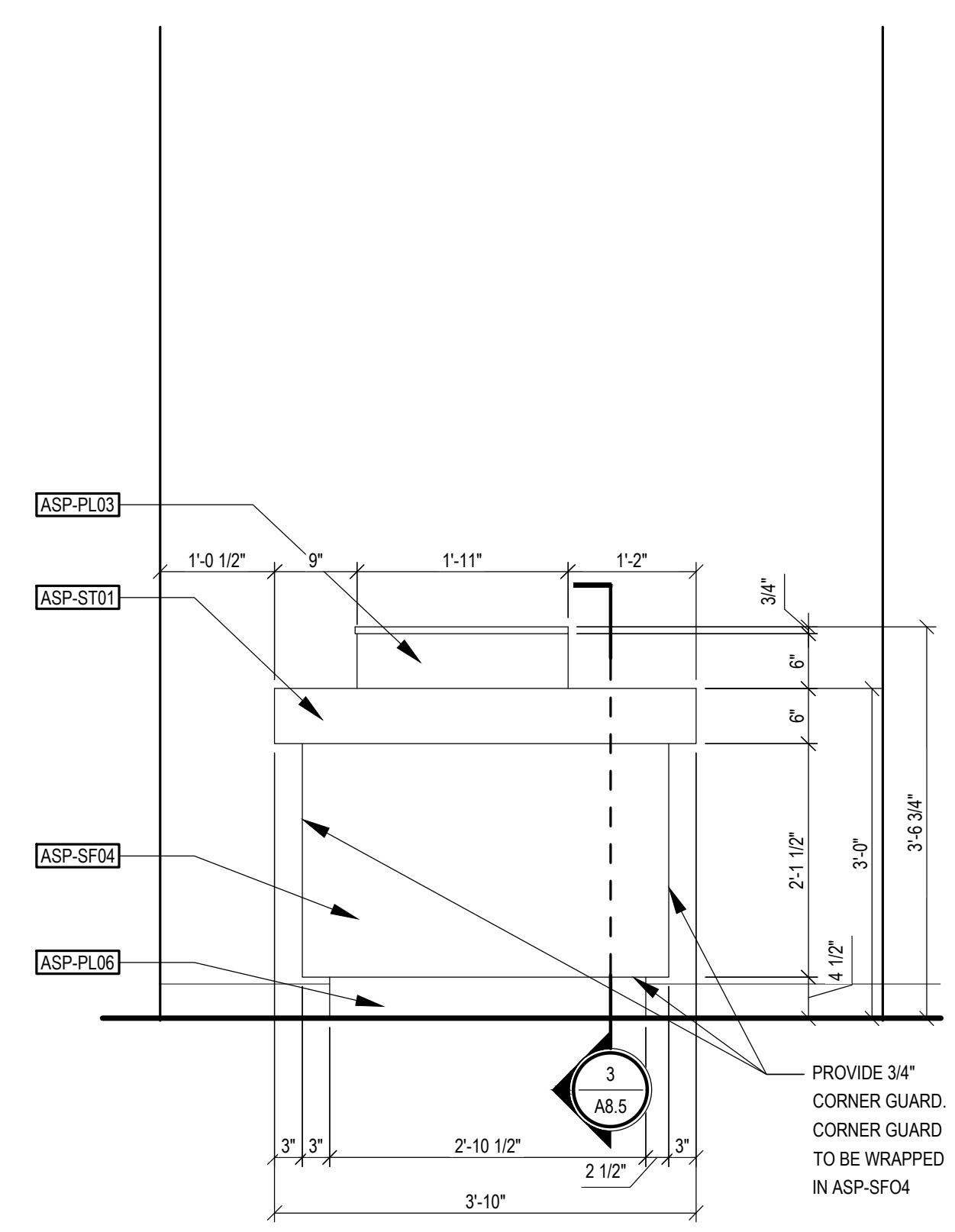
11 ENLARGED PLAN - RECEPTION DESK TOP VIEW
SCALE: 1" = 1'-0"



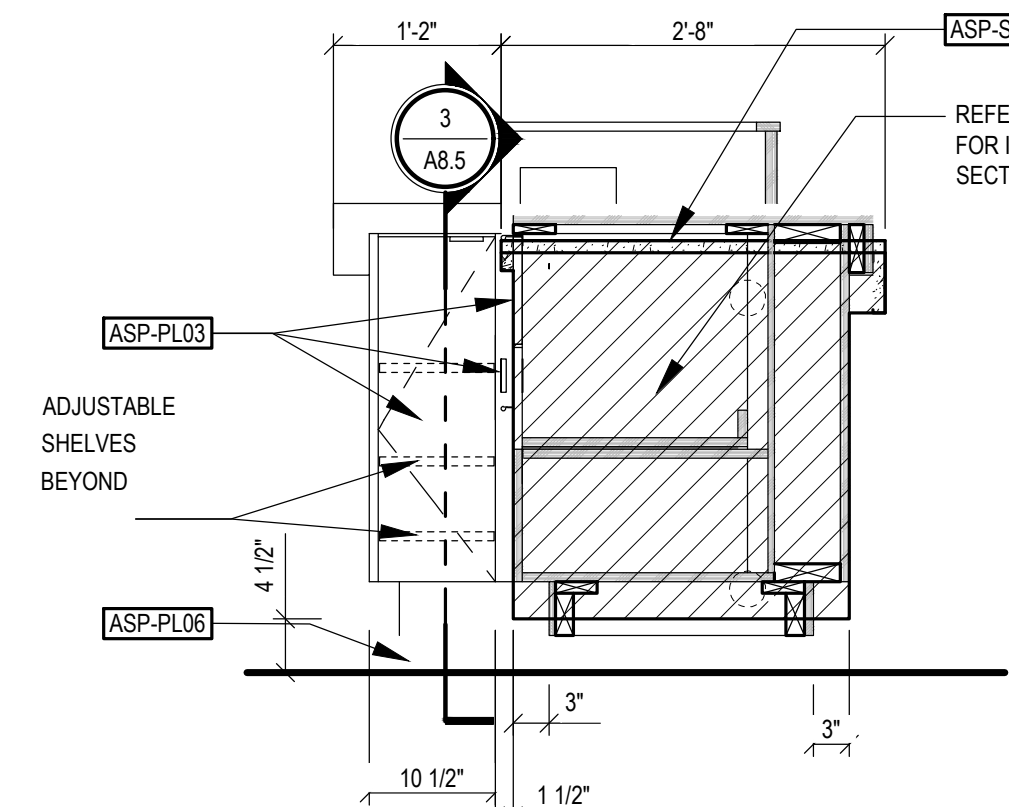
7 RECEPTION ELEVATION
SCALE: 3/4" = 1'-0"



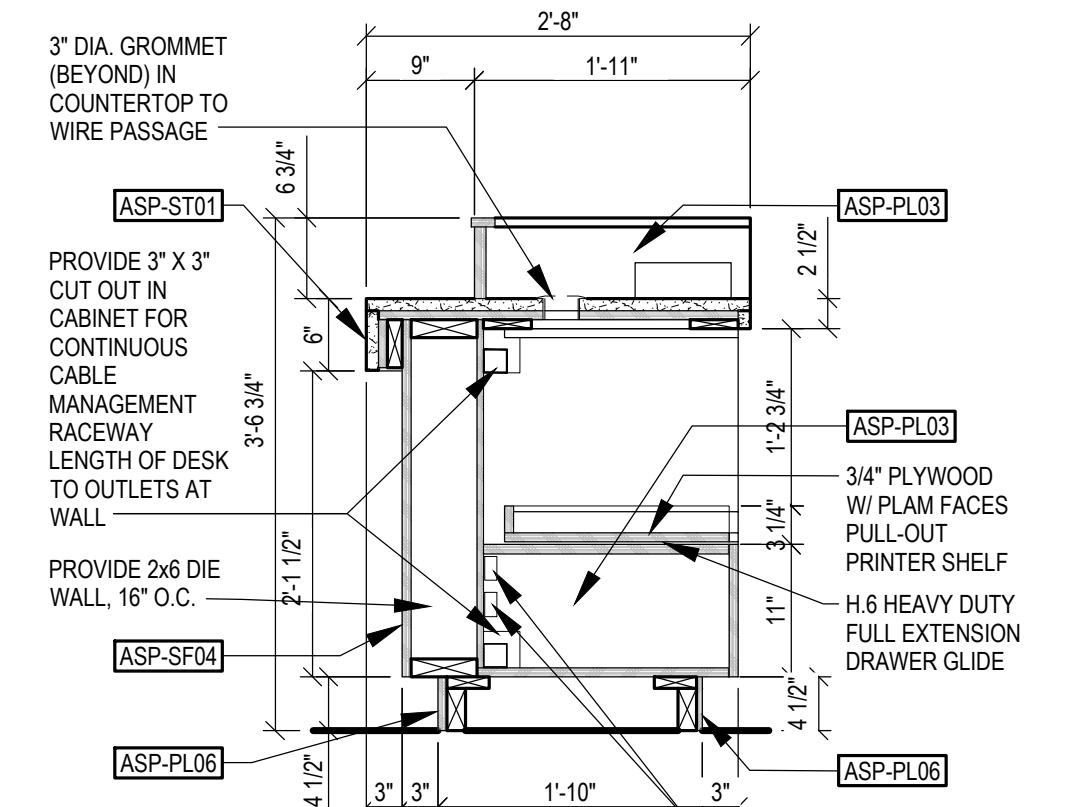
8 RECEPTION ELEVATION
SCALE: 3/4" = 1'-0"



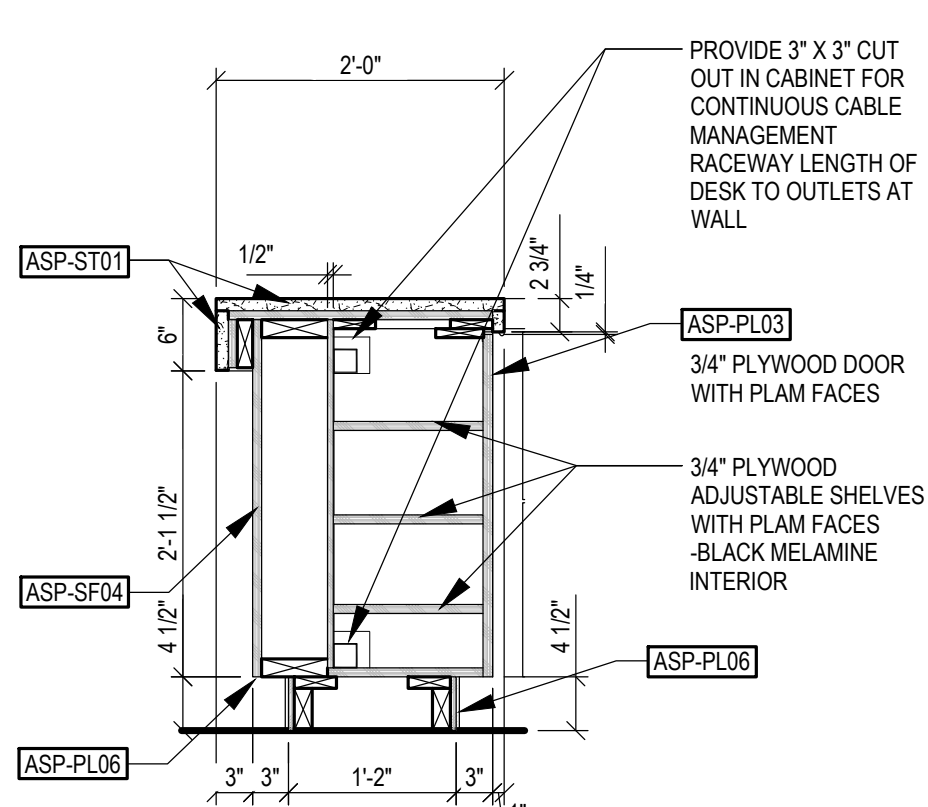
9 RECEPTION ELEVATION
SCALE: 3/4" = 1'-0"



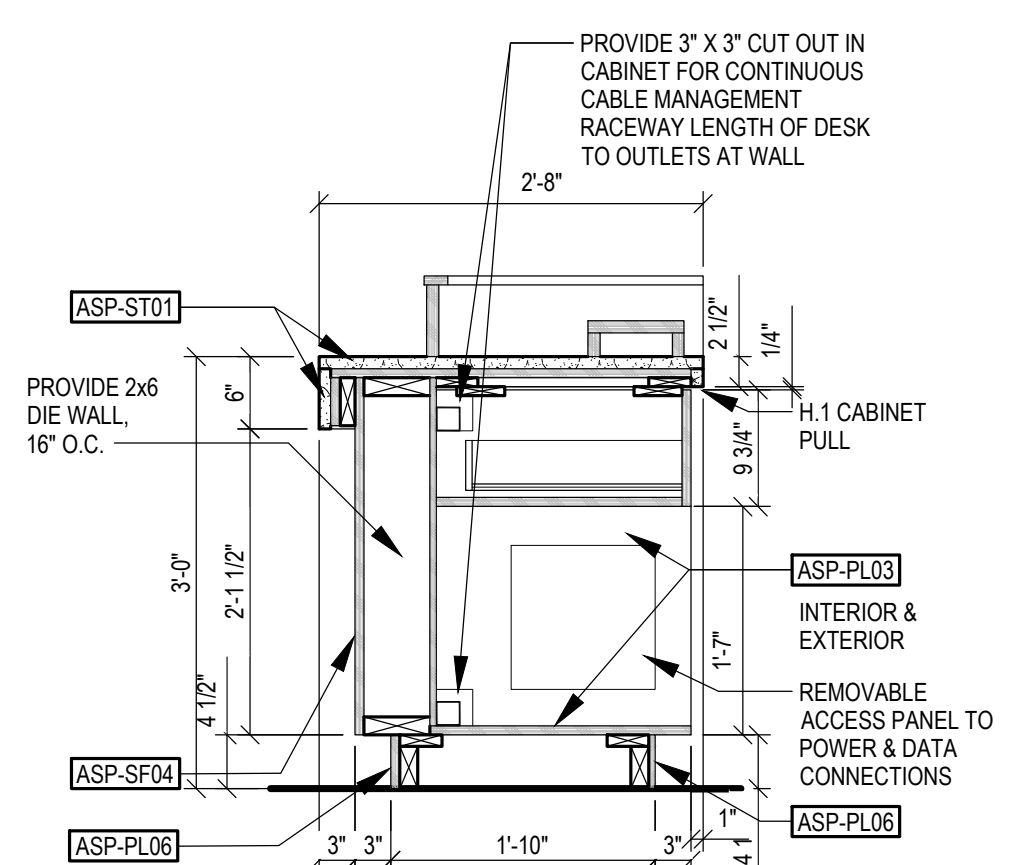
1 RECEPTION INSIDE ELEV.
SCALE: 3/4" = 1'-0"



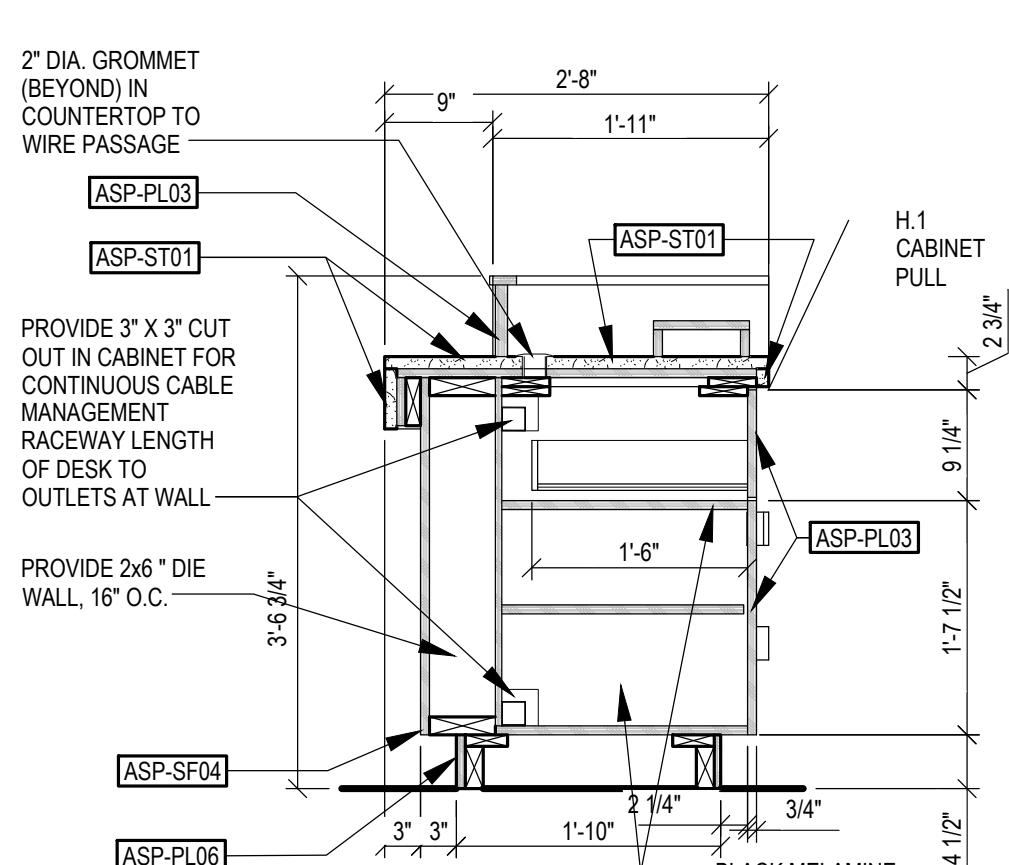
2 RECEPTION DESK SECTION
SCALE: 3/4" = 1'-0"



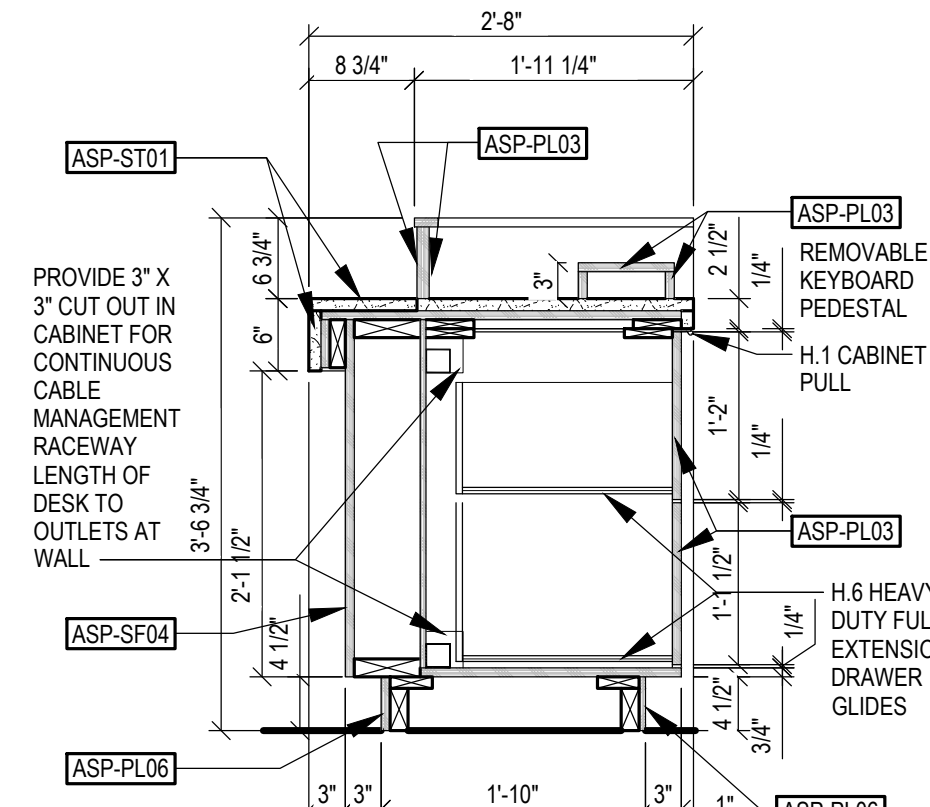
3 RECEPTION DESK SECTION
SCALE: 3/4" = 1'-0"



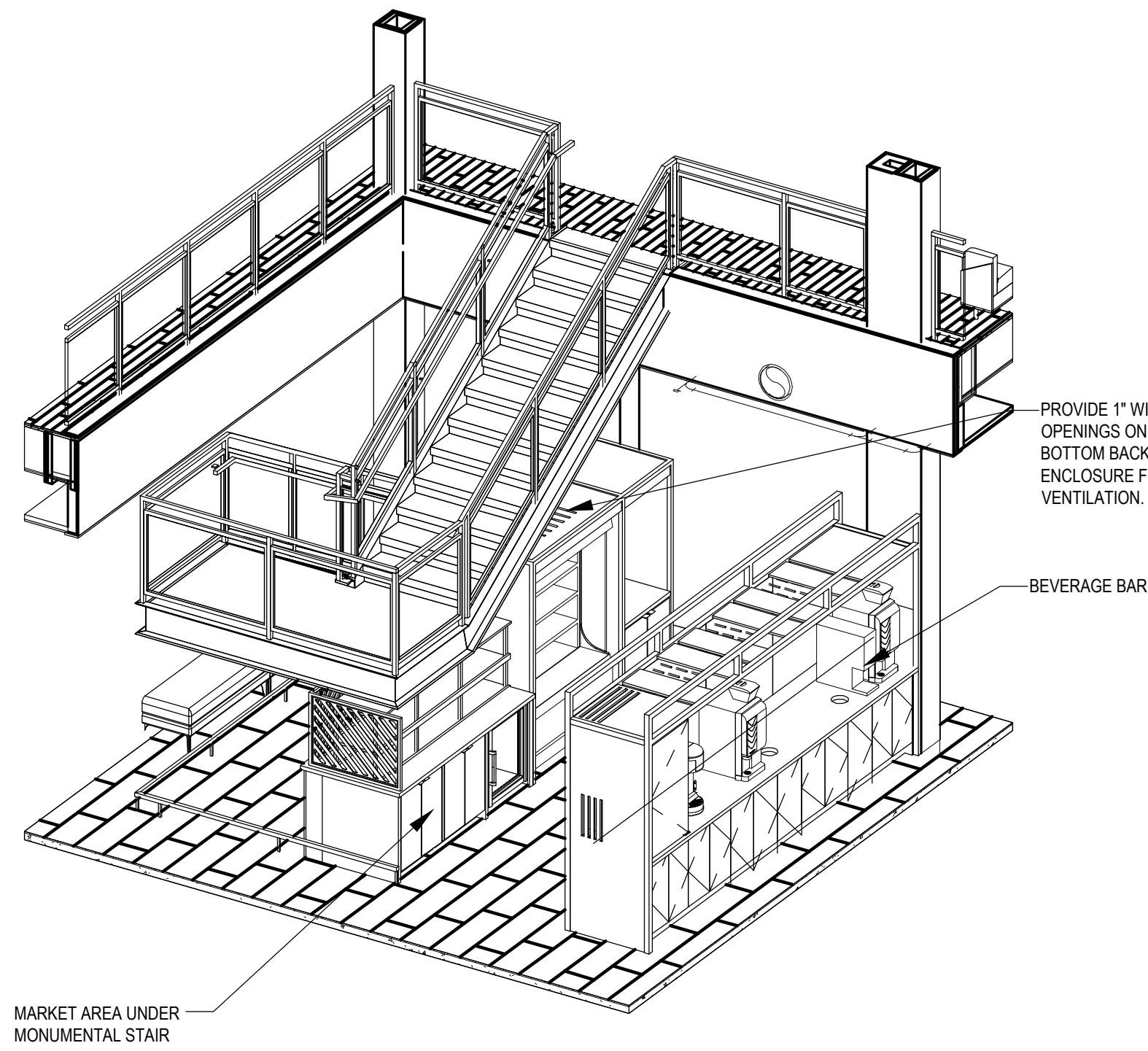
4 RECEPTION DESK SECTION
SCALE: 3/4" = 1'-0"



5 RECEPTION DESK SECTION
SCALE: 3/4" = 1'-0"



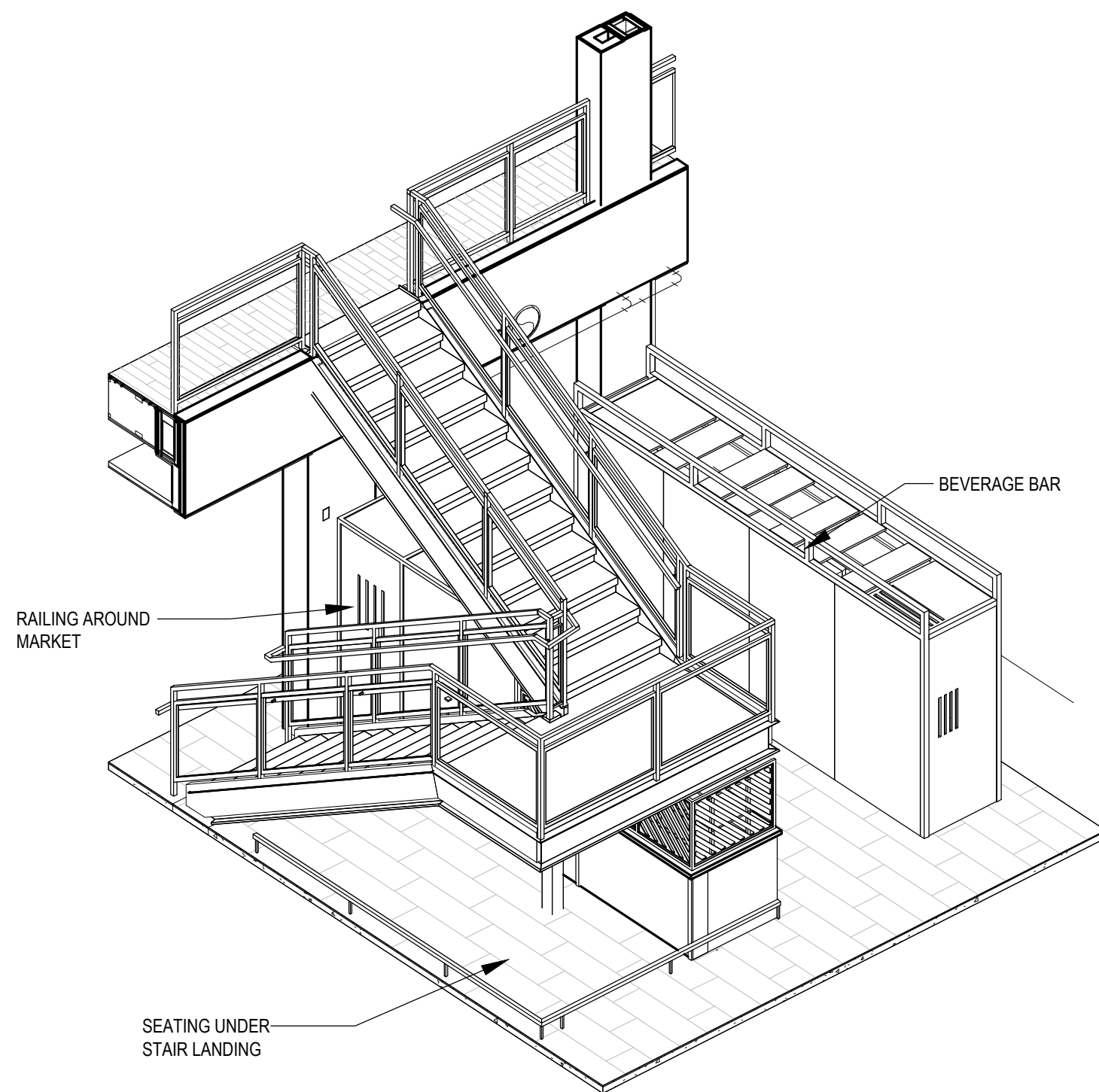
6 RECEPTION DESK SECTION
SCALE: 3/4" = 1'-0"



**3D SE VIEW OF MONMENTAL STAIR
AND MARKET / BEVERAGE AREA**

5
A8.6

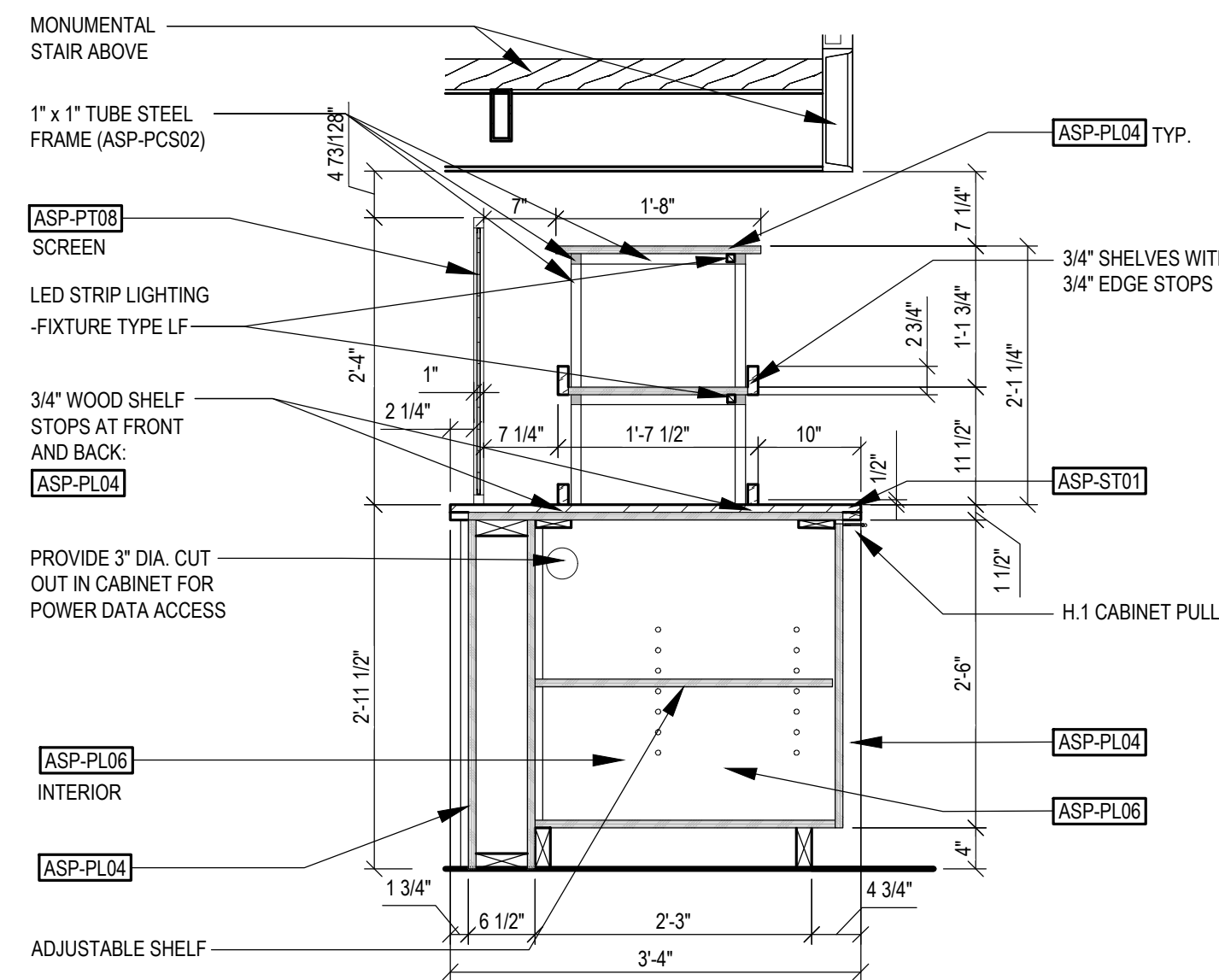
SCALE: N/A



**3D SW VIEW OF MONMENTAL STAIR
AND MARKET / BEVERAGE AREA**

6
A8.6

SCALE: N/A



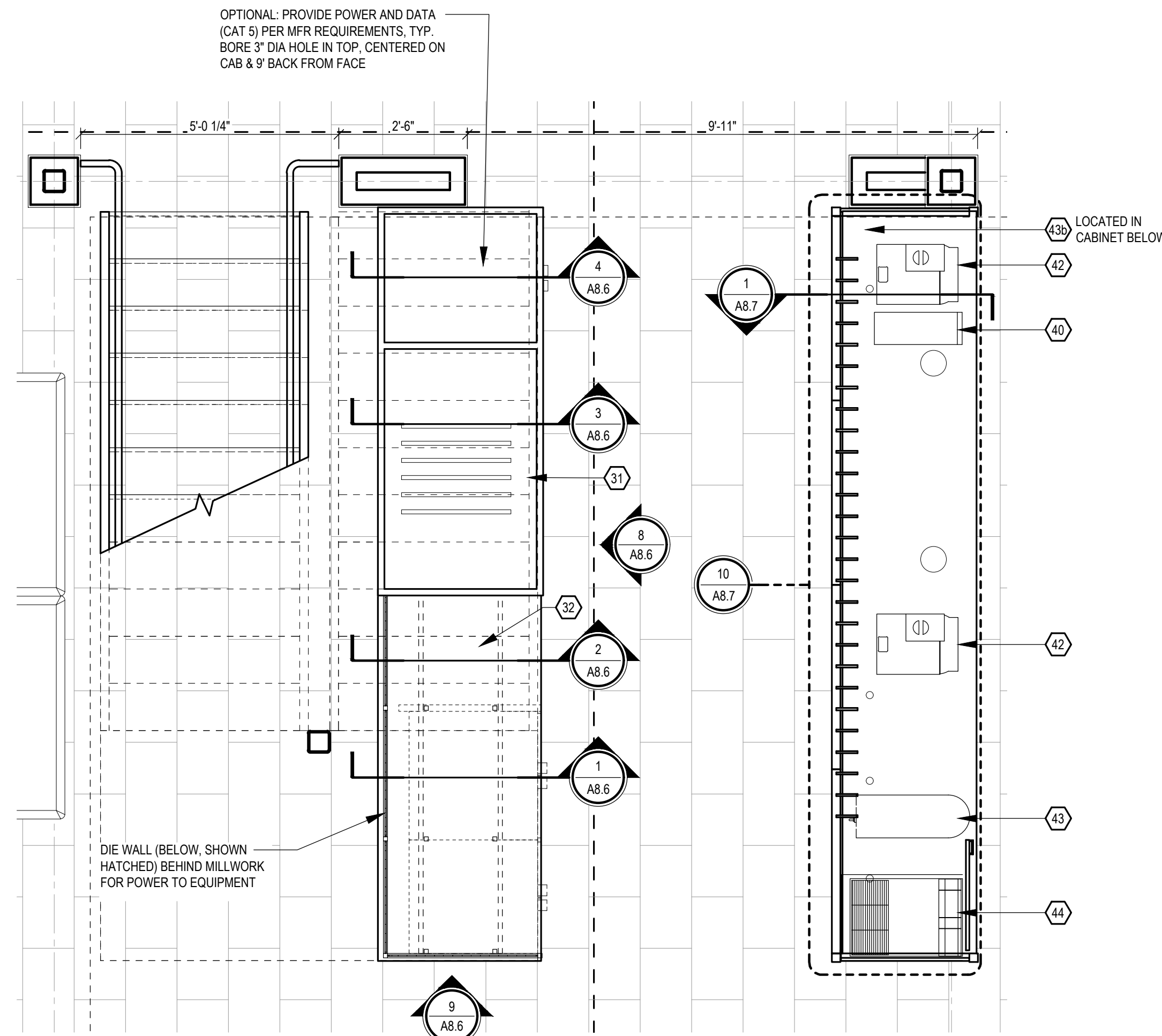
MARKET DETAIL

1
A8.6

SCALE: 3/4\"/>

ITEM NO.	QTY.	DESCRIPTION	ELECTRICAL CONN.	PLUMB. CONN.	REMARKS
31	1	VERTICAL OPEN DISPLAY CASE	115V/60/1, NEMA 5-20P, 15.5A	NO	
32	1	FREEZER MERCHANDISER	115V/60/1, NEMA 5-15P, 2.3A	NO	
40	1	HOT WATER DISPENSER	120V/60/1, NEMA 5-15P, 11.2A	YES	
42	2	SINGLE CUP ESPRESSO MACHINE	120V/60/1, NEMA 5-15P, 11A	YES	
43	1	WATER DISPENSER	120V/60/1, NEMA 5-15P, 5.2A	YES	
43b	1	WATER FILTER	NO	YES	
44	1	COUNTER ELECTRIC DISPENSER	115V/60/1, 7.0A	YES	

NOTE: EQUIPMENT SPECIFICATIONS ARE AVAILABLE AT www.IHGDesignConnect.com.

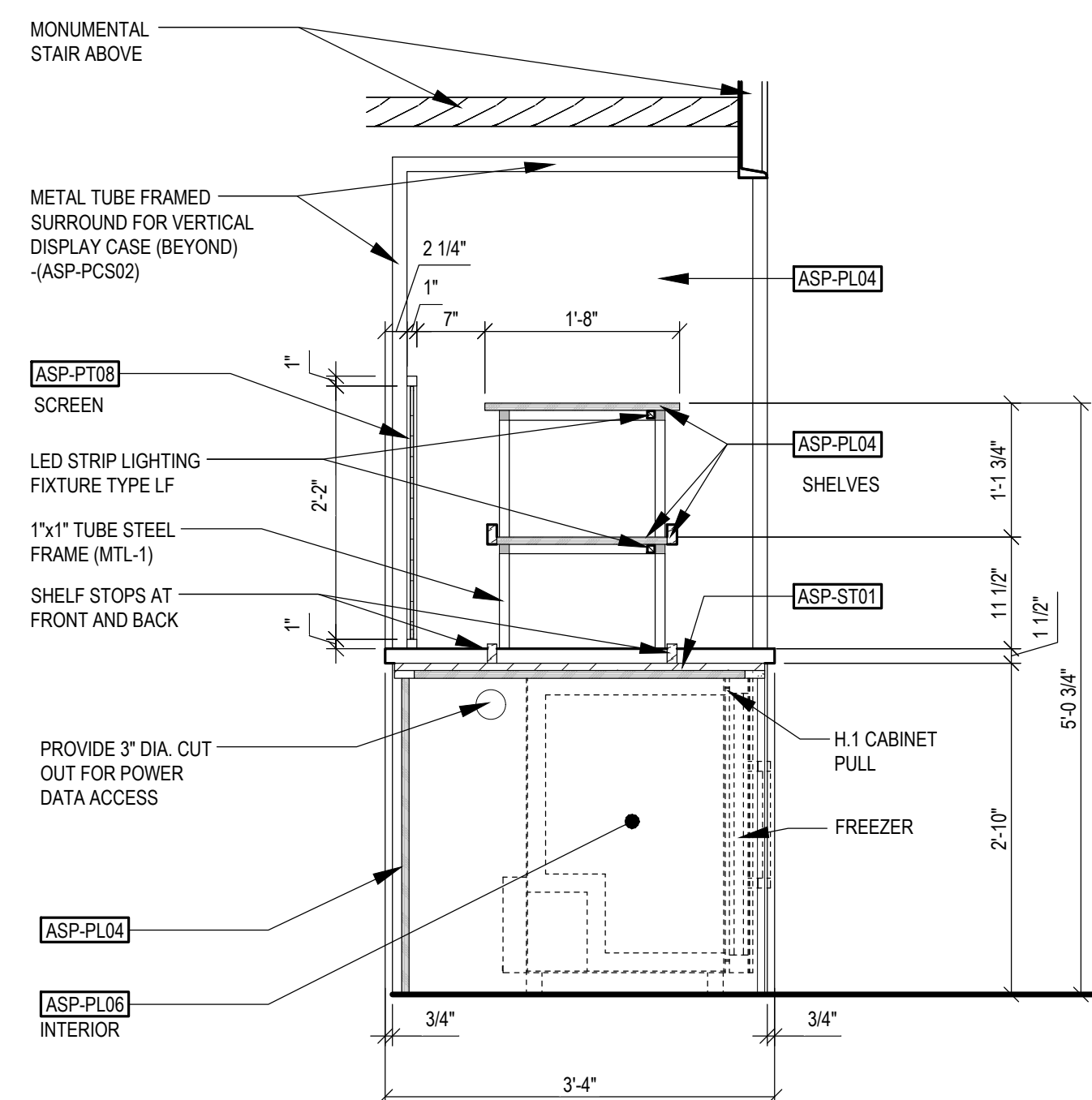


ENLARGED PLAN MARKET & BEVERAGE BAR

7
A8.6

SCALE: 1/2\"/>

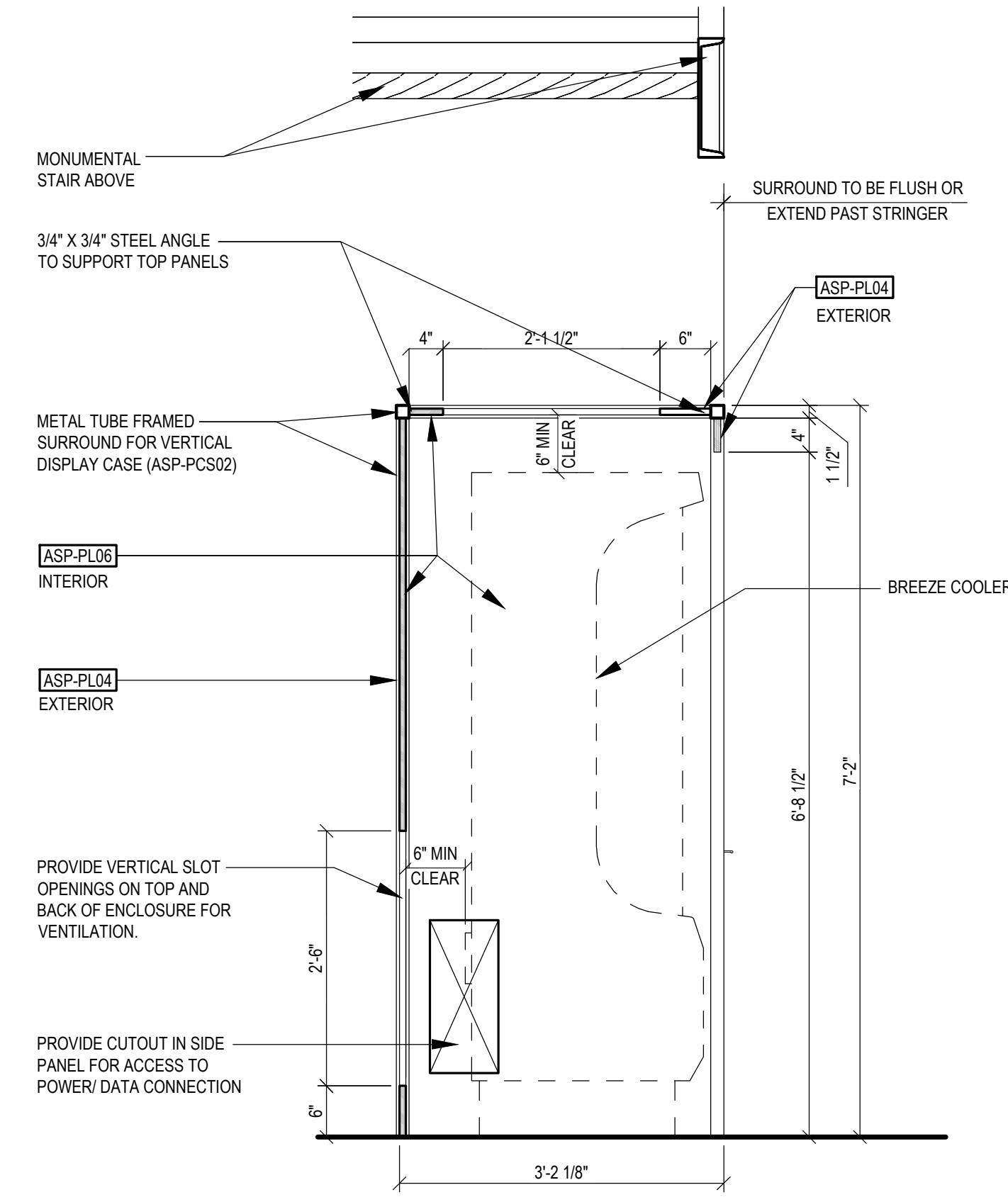
NOTE:
ALL LED TAPE LIGHTS ON THE MARKET MILLWORK TO BE PROVIDED AND INSTALLED BY MILLWORKER PRIOR TO FINAL INSTALLATION. MILLWORKER TO COORDINATE WITH ELECTRICIAN FOR INSTALLATION REQUIREMENTS AND LOCATION OF THE JUNCTION BOX. FINAL CONNECTION BY ELECTRICIAN.



MARKET DETAIL

2
A8.6

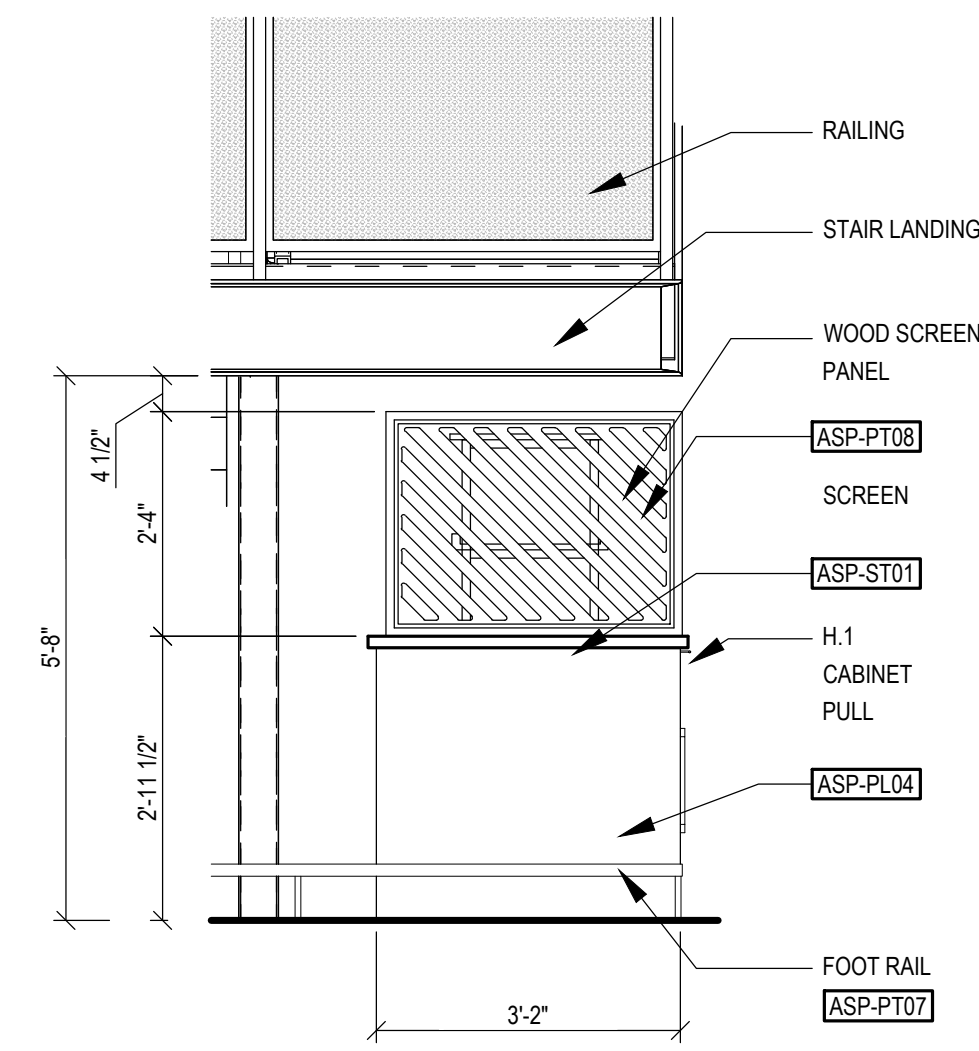
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MARKET DETAIL

3
A8.6

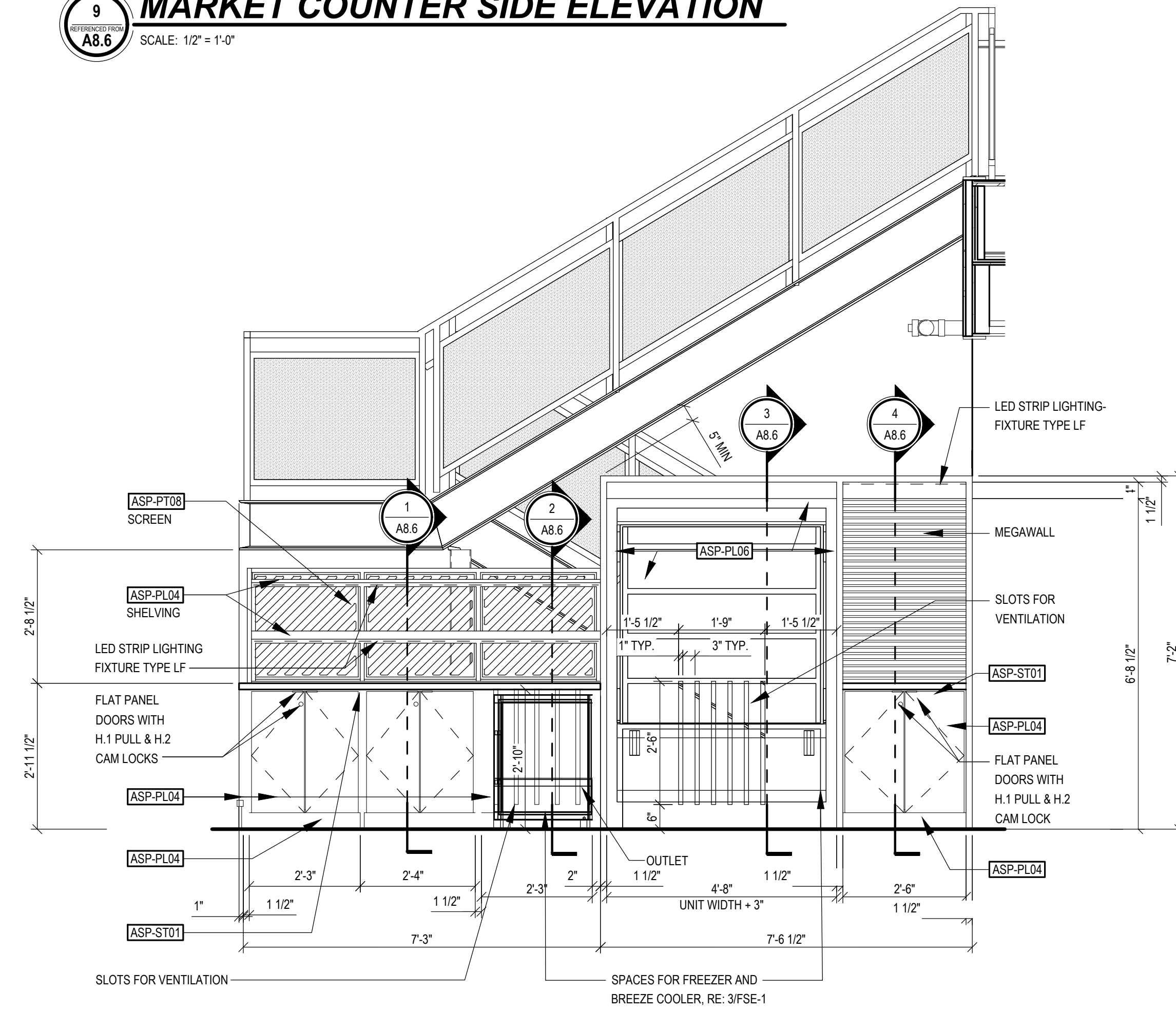
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MARKET COUNTER SIDE ELEVATION

9
A8.6

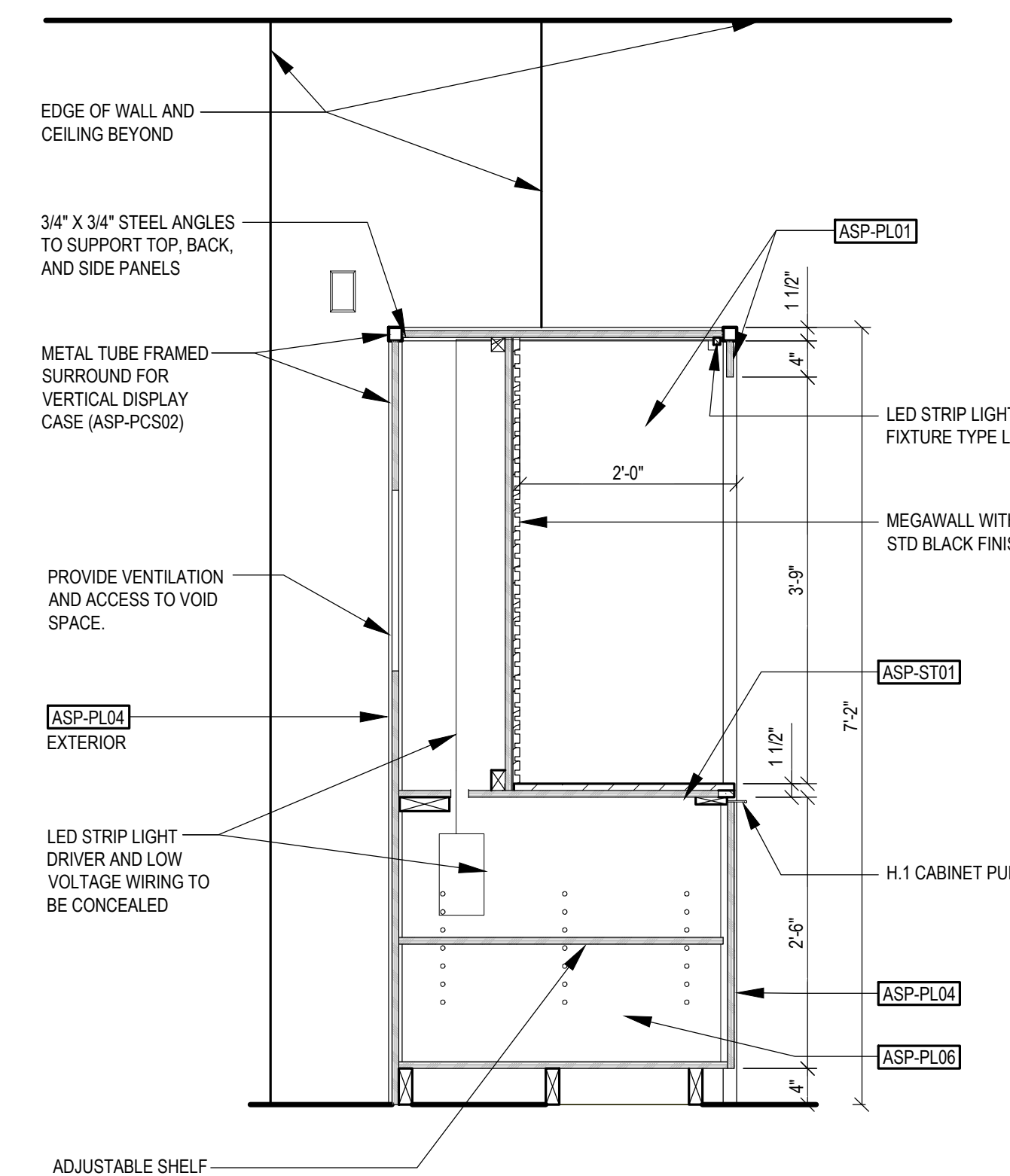
SCALE: 1/2\"/>



MARKET COUNTER / STAIRS ELEVATION

6
A8.6

SCALE: 1/2\"/>



MARKET DETAIL

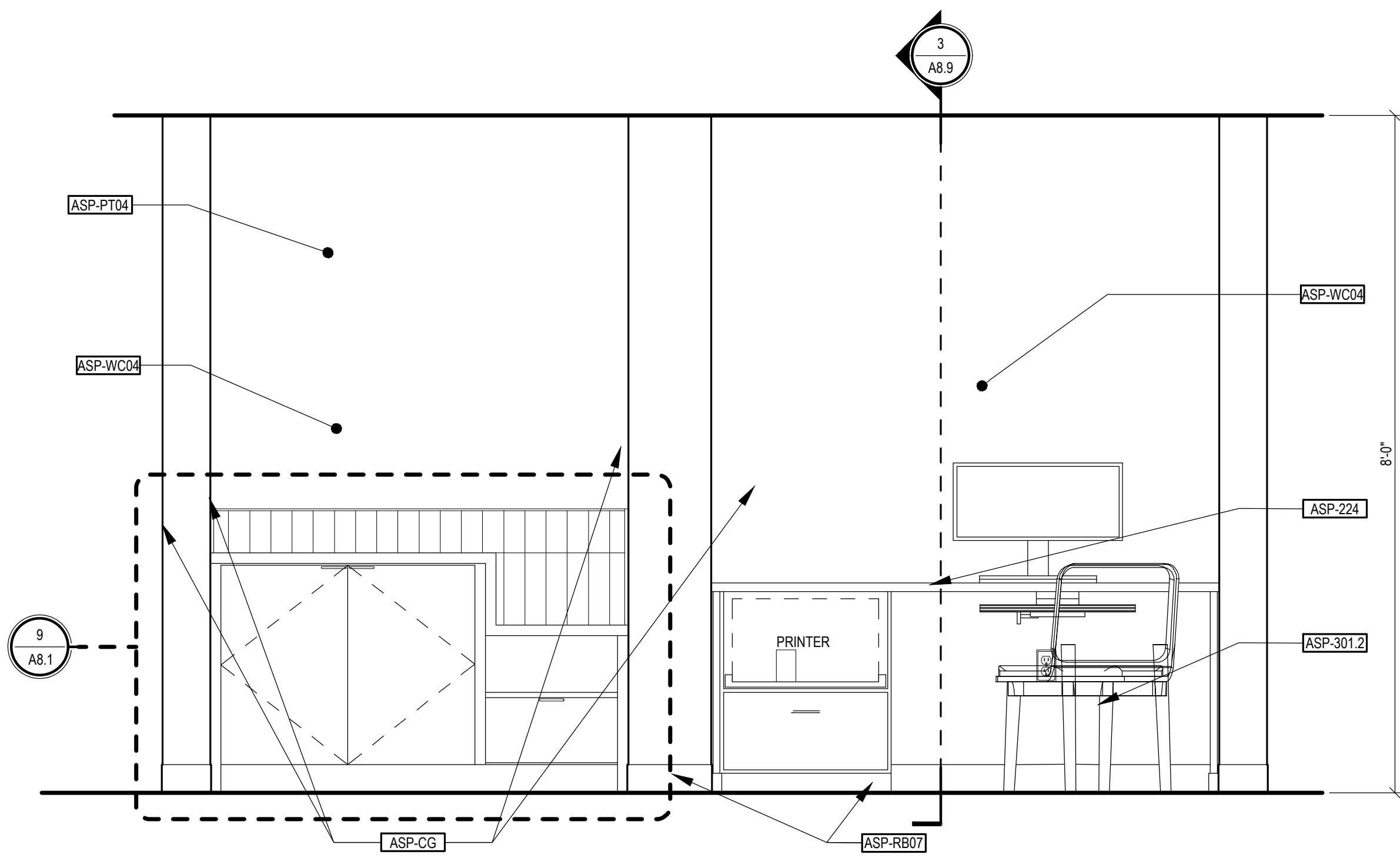
4
A8.6

SCALE: 3/4\"/>

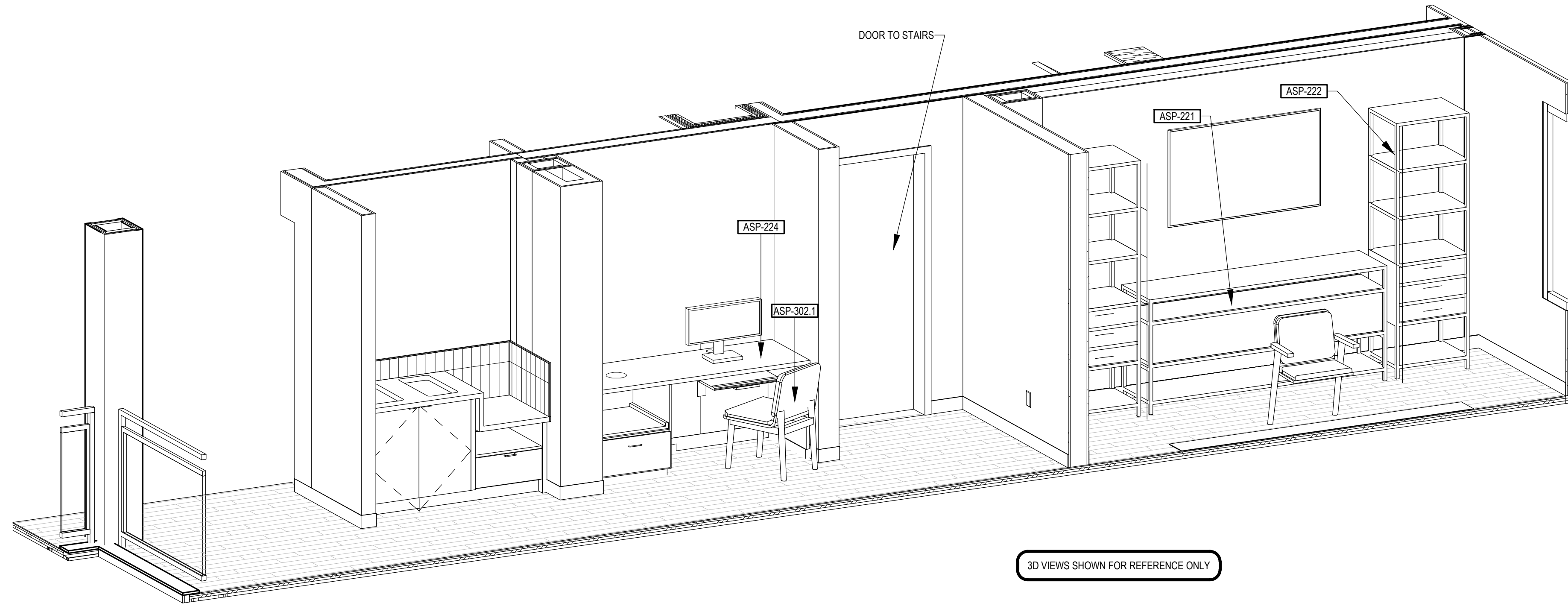


ALL LED TAPE LIGHTS ON THE BEVERAGE BAR MILLWORK TO BE PROVIDED AND INSTALLED BY MILLWORKER PRIOR TO FINAL INSTALLATION. MILLWORKER TO COORDINATE WITH ELECTRICIAN FOR INSTALLATION REQUIREMENTS AND LOCATION OF THE JUNCTION BOX. FINAL CONNECTION BY ELECTRICIAN.

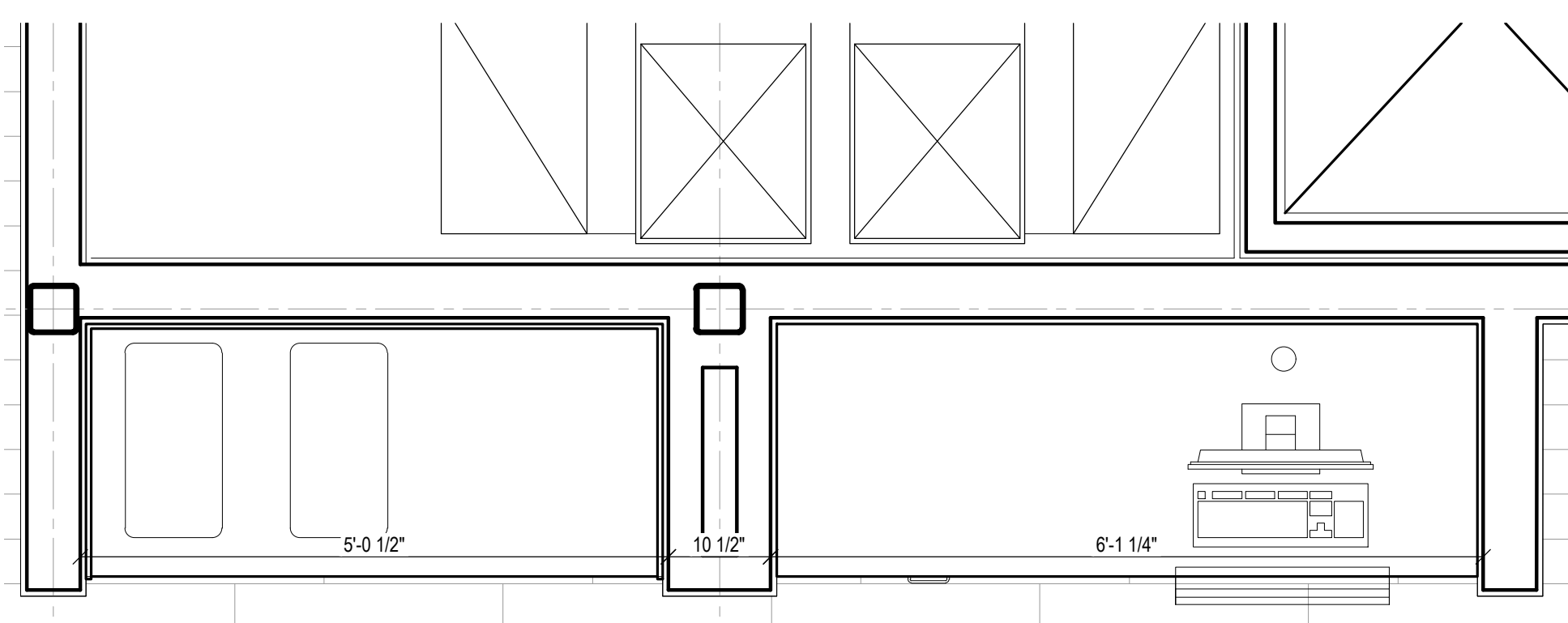




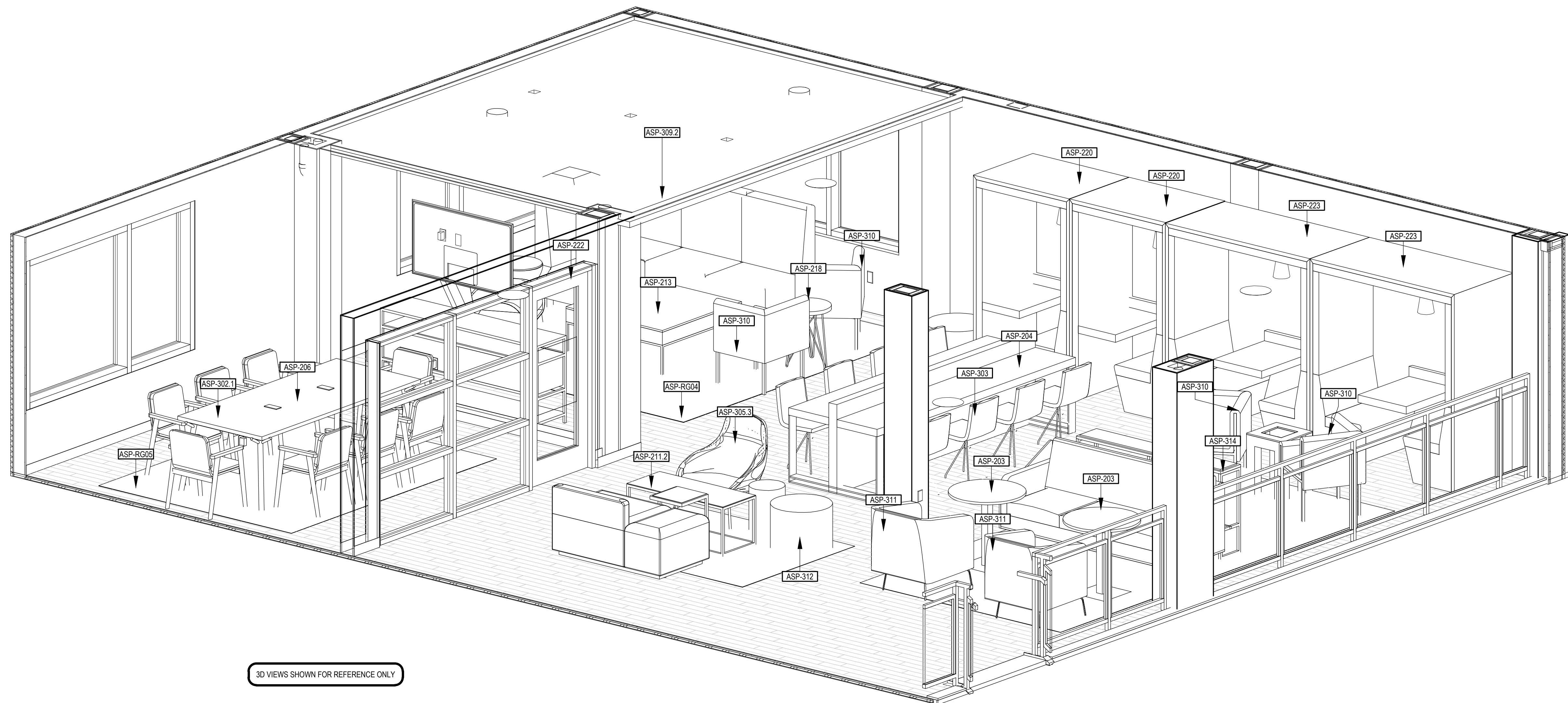
3
A8.8
SOCIAL SPACE - BUSSING CENTER & DESK ELEVATION
SCALE: 3/4" = 1'-0"



4
A8.8
WEST VIEW - COMMON & STUDY
SCALE: N/A



1
A8.8
SOCIAL SPACE - BUSSING STATION & DESK PLAN
SCALE: 3/4" = 1'-0"



2
A8.8
EAST VIEW - COMMON AREA & STUDY
SCALE: N/A

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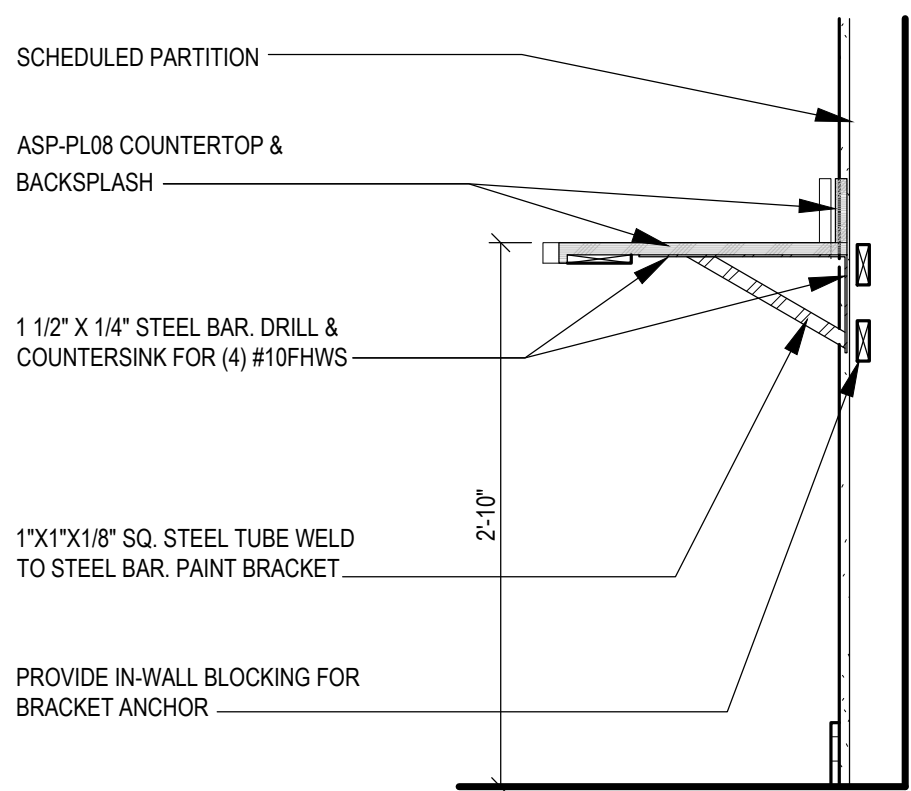
ATWELL SUITES
AN IHG HOTEL
ERLEN DR. & MINDEN DR. FISHERS, INDIANA 46037 HAMILTON COUNTY
COMMON & STUDY SPACES
DETAILS

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11/17/2023 SAXONY DESIGN REVIEW 2
01/26/2024 FOR CONSTRUCTION

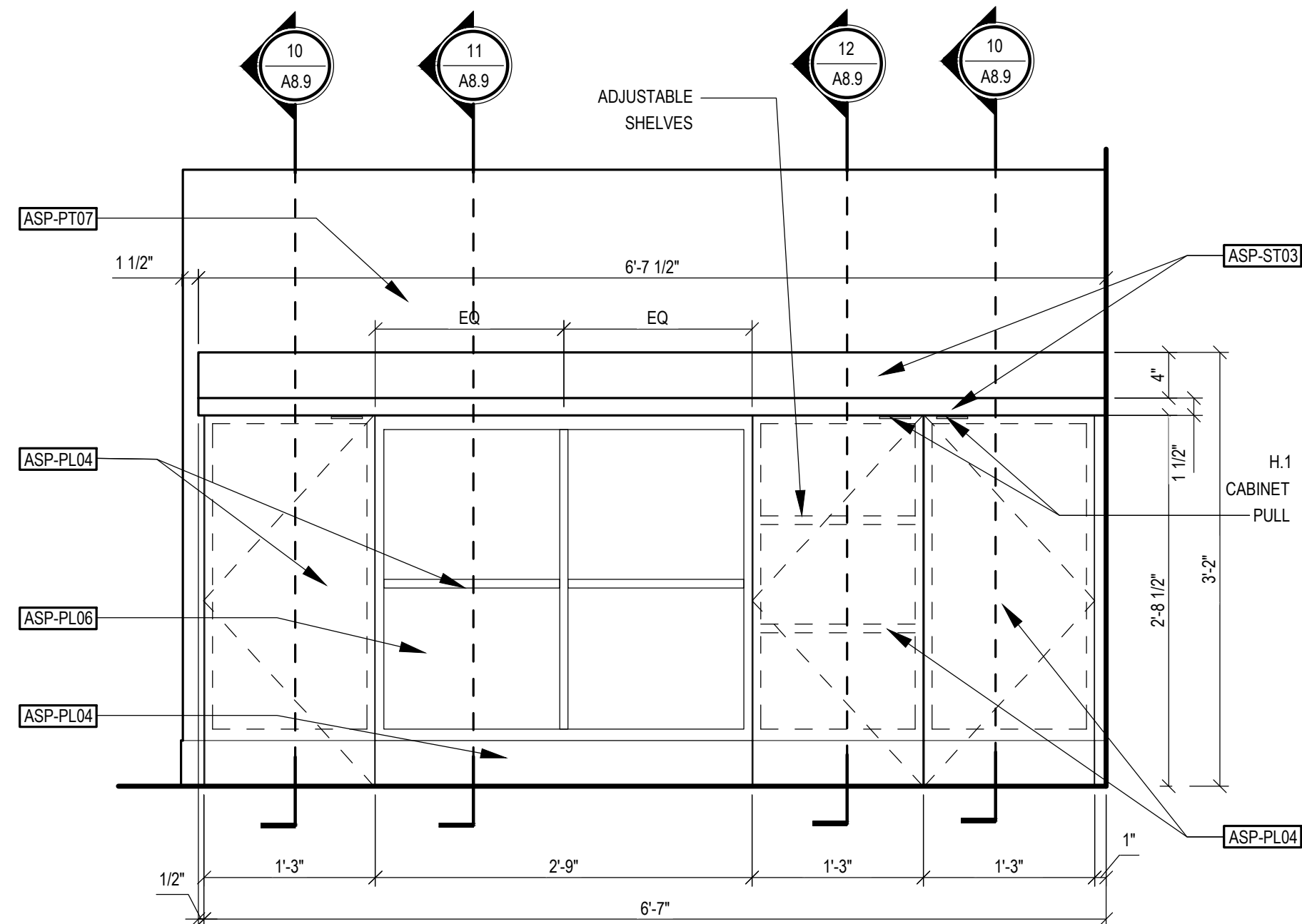
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A8.8

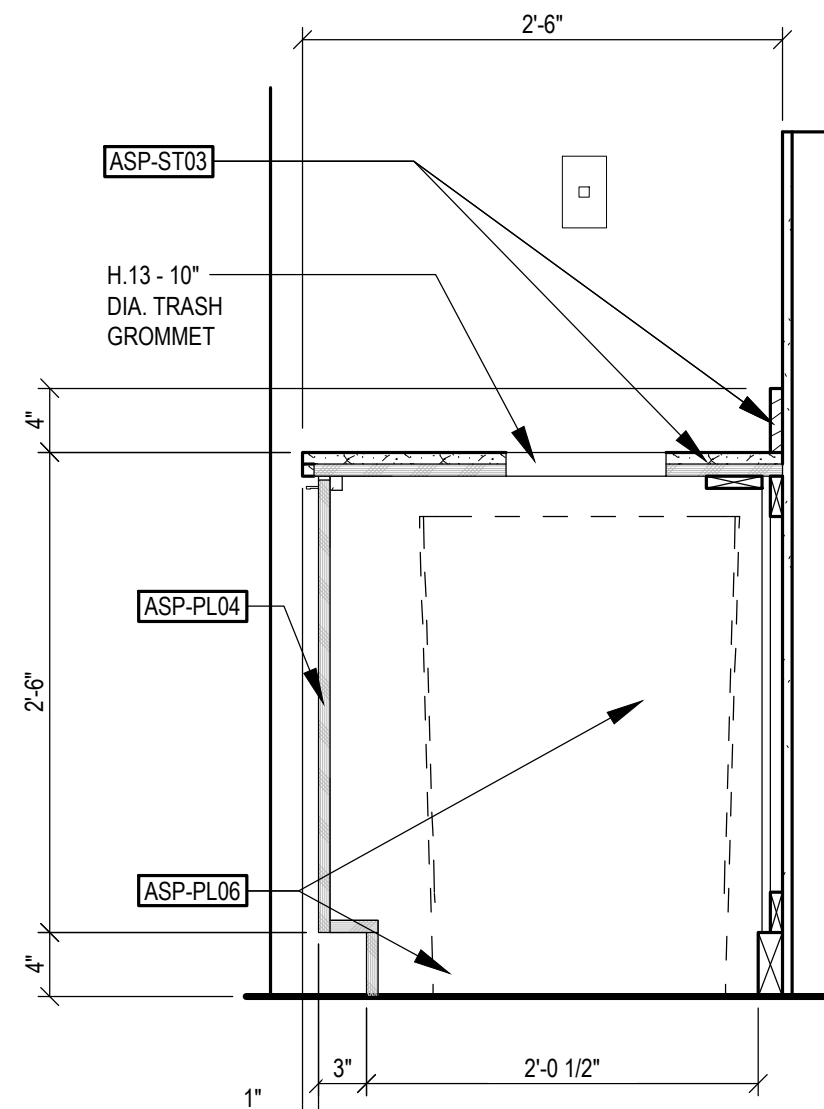
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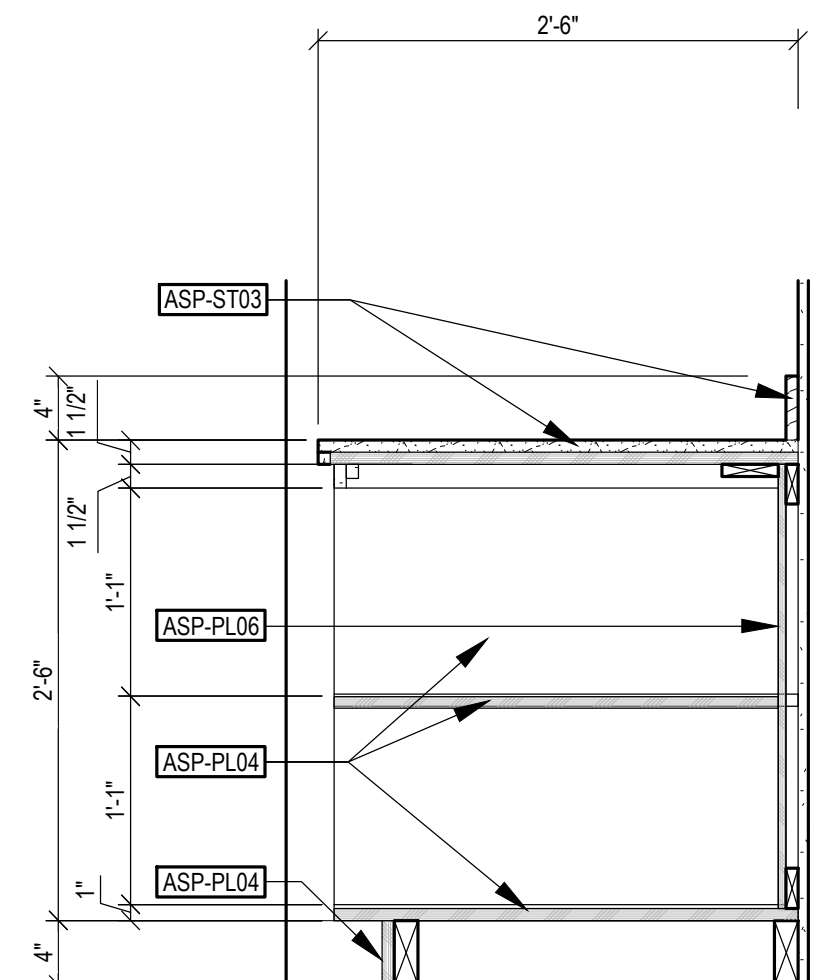
8
GUEST LAUNDRY FOLDING TABLE SECTION
SCALE: 1" = 1'-0"



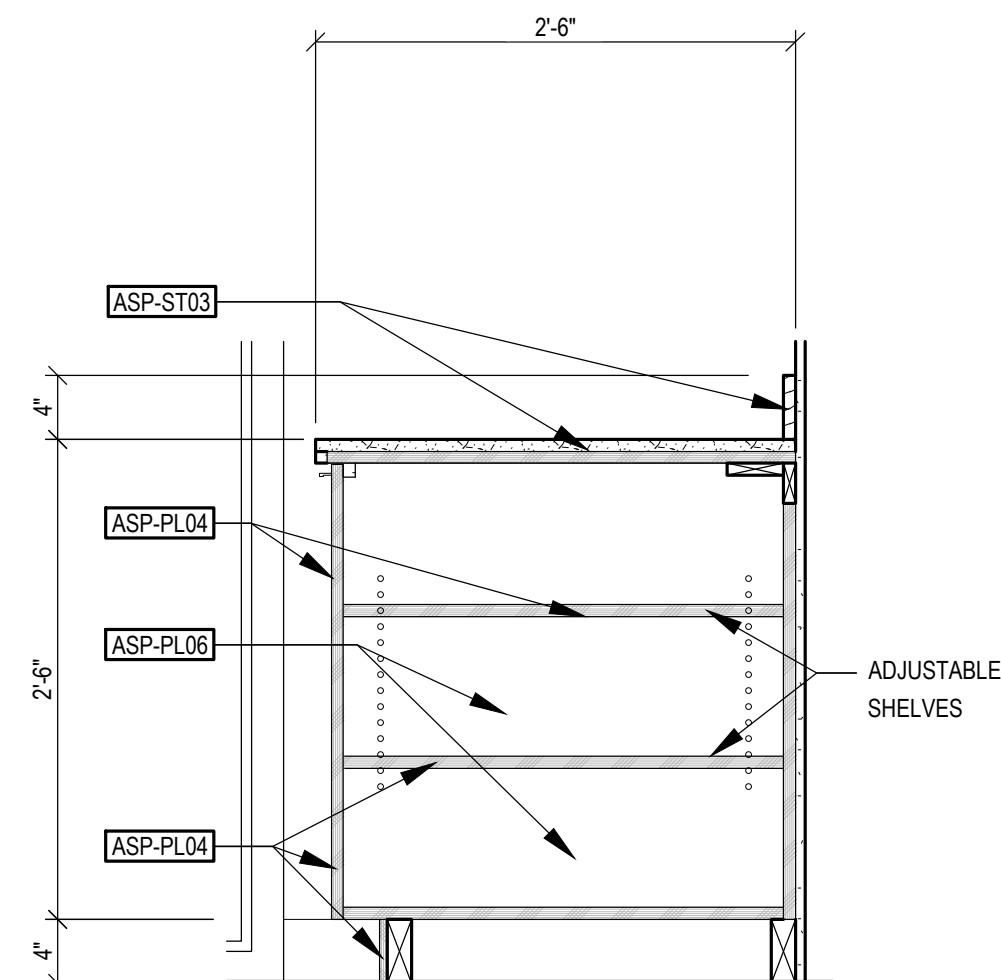
9
FITNESS CENTER MILLWORK ELEVATION
SCALE: 1" = 1'-0"



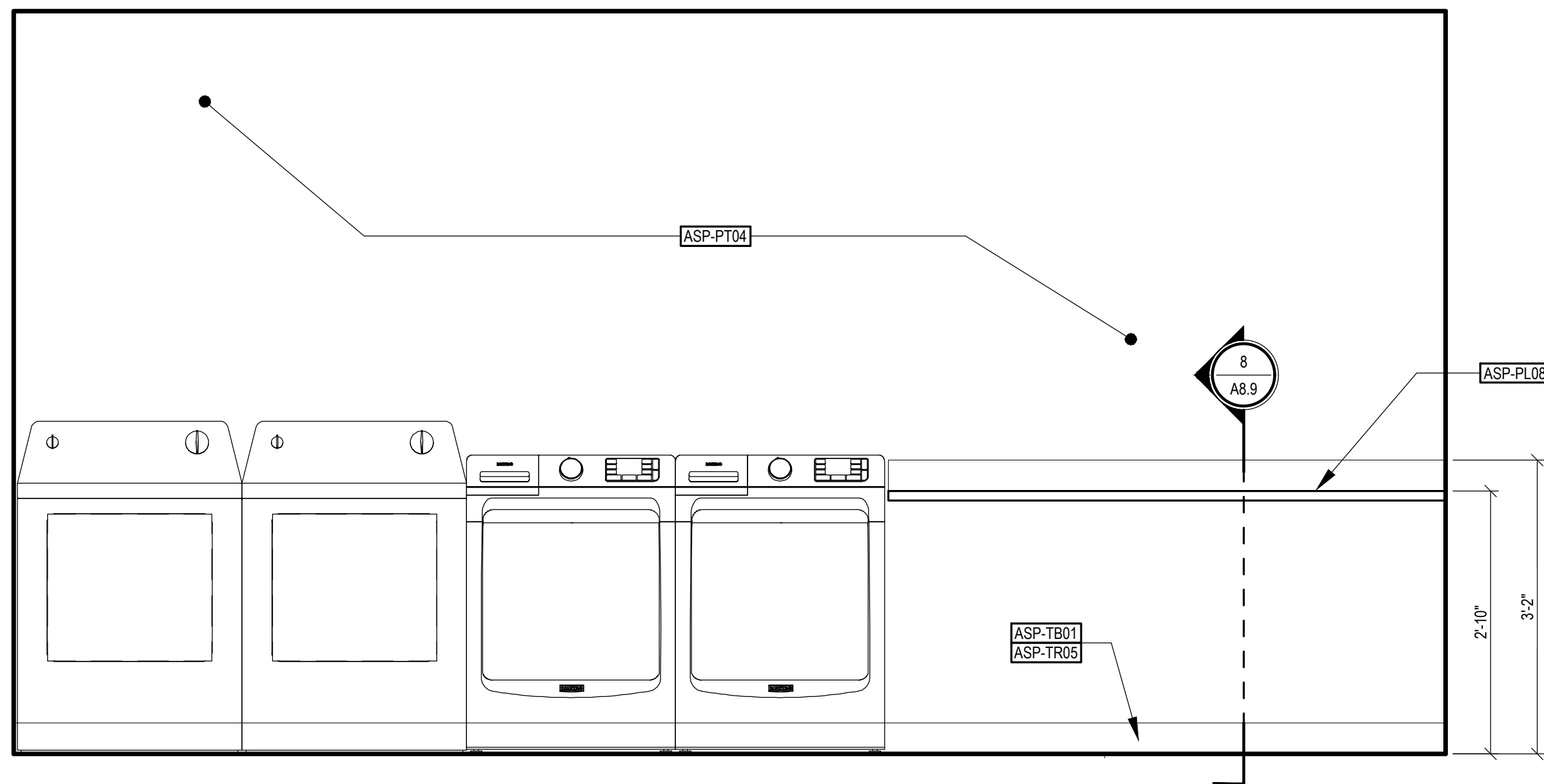
10
FITNESS CENTER BASE CABINET SECTION
SCALE: 1" = 1'-0"



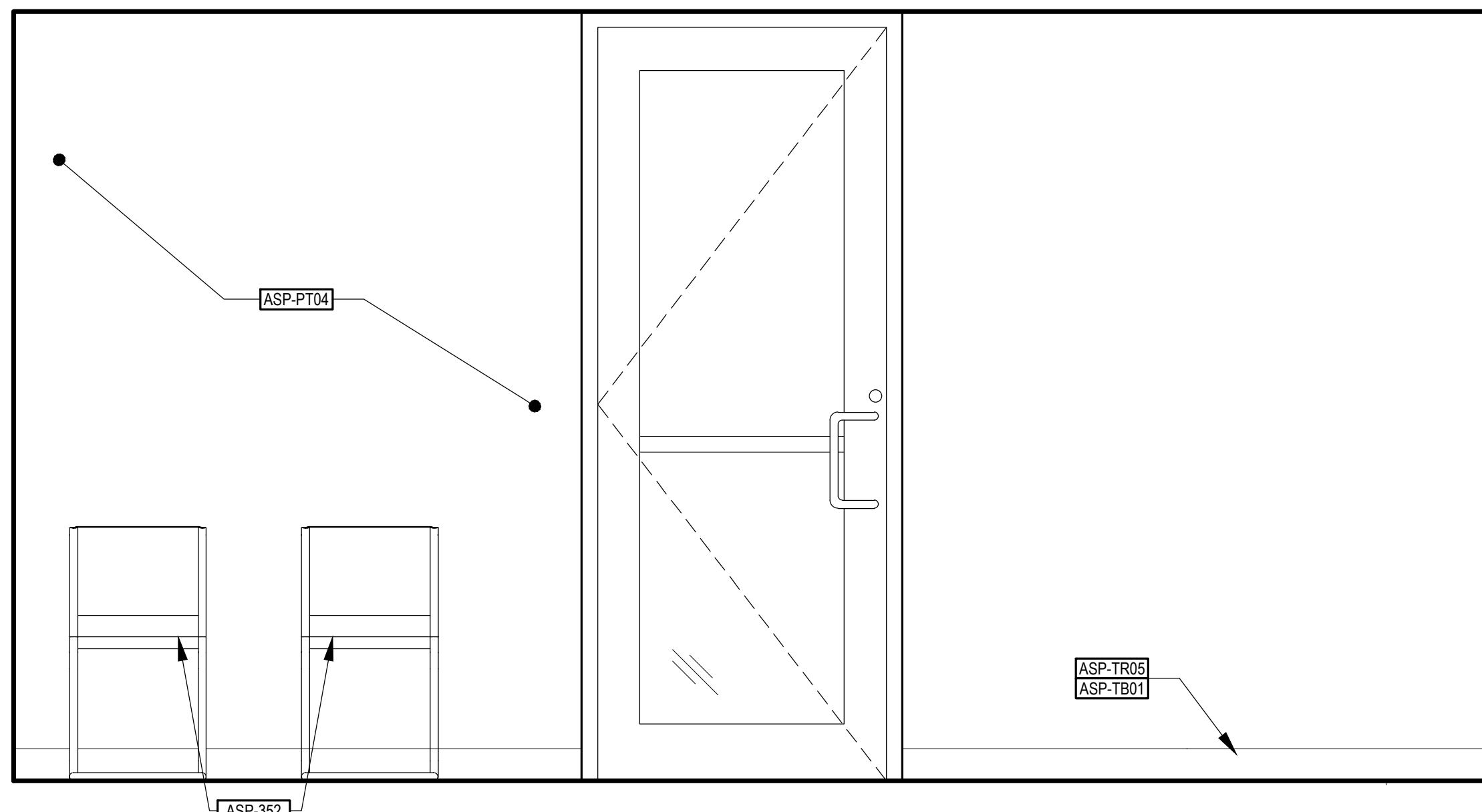
11
FITNESS CENTER MILLWORK SECTION
SCALE: 1" = 1'-0"



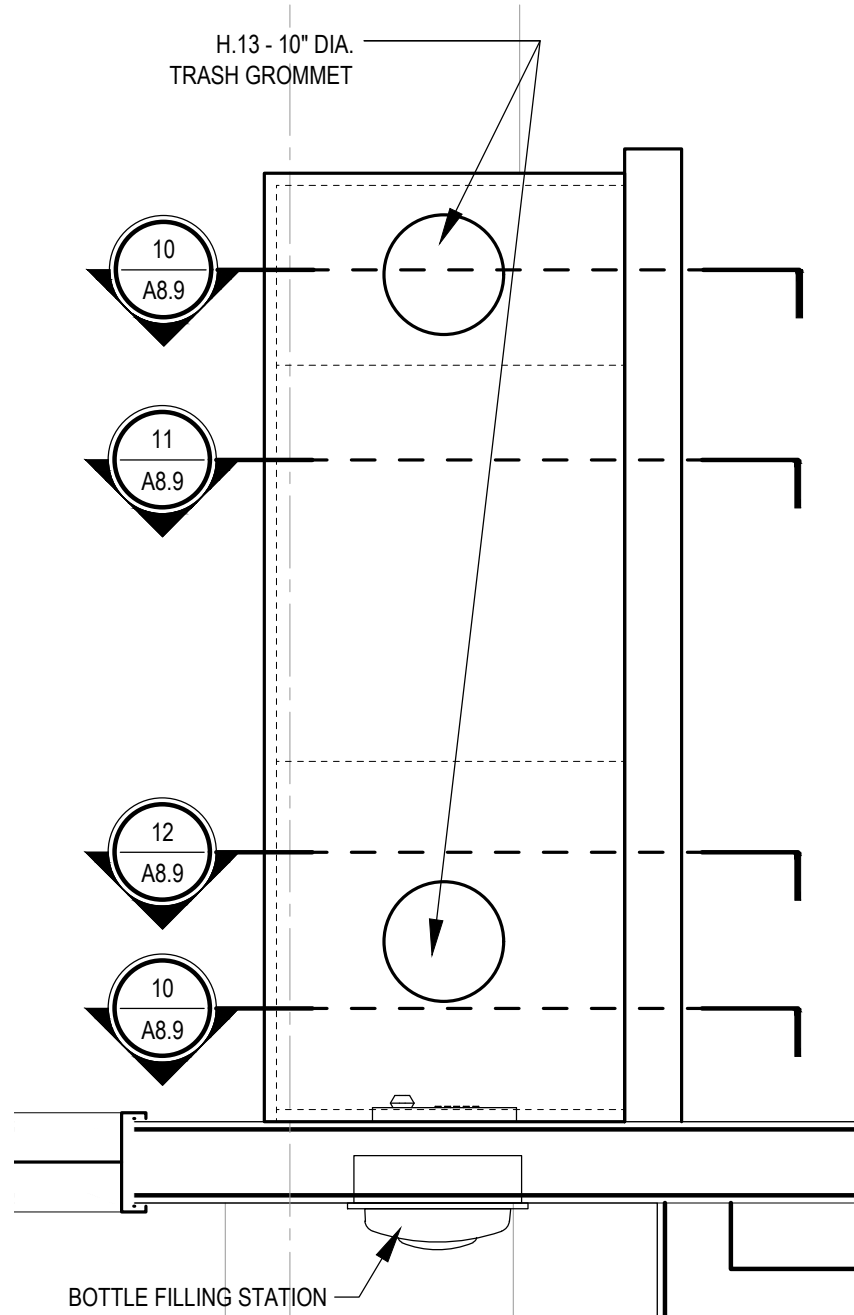
12
FITNESS CENTER BASE CABINET W/ SHELVE
SCALE: 1" = 1'-0"



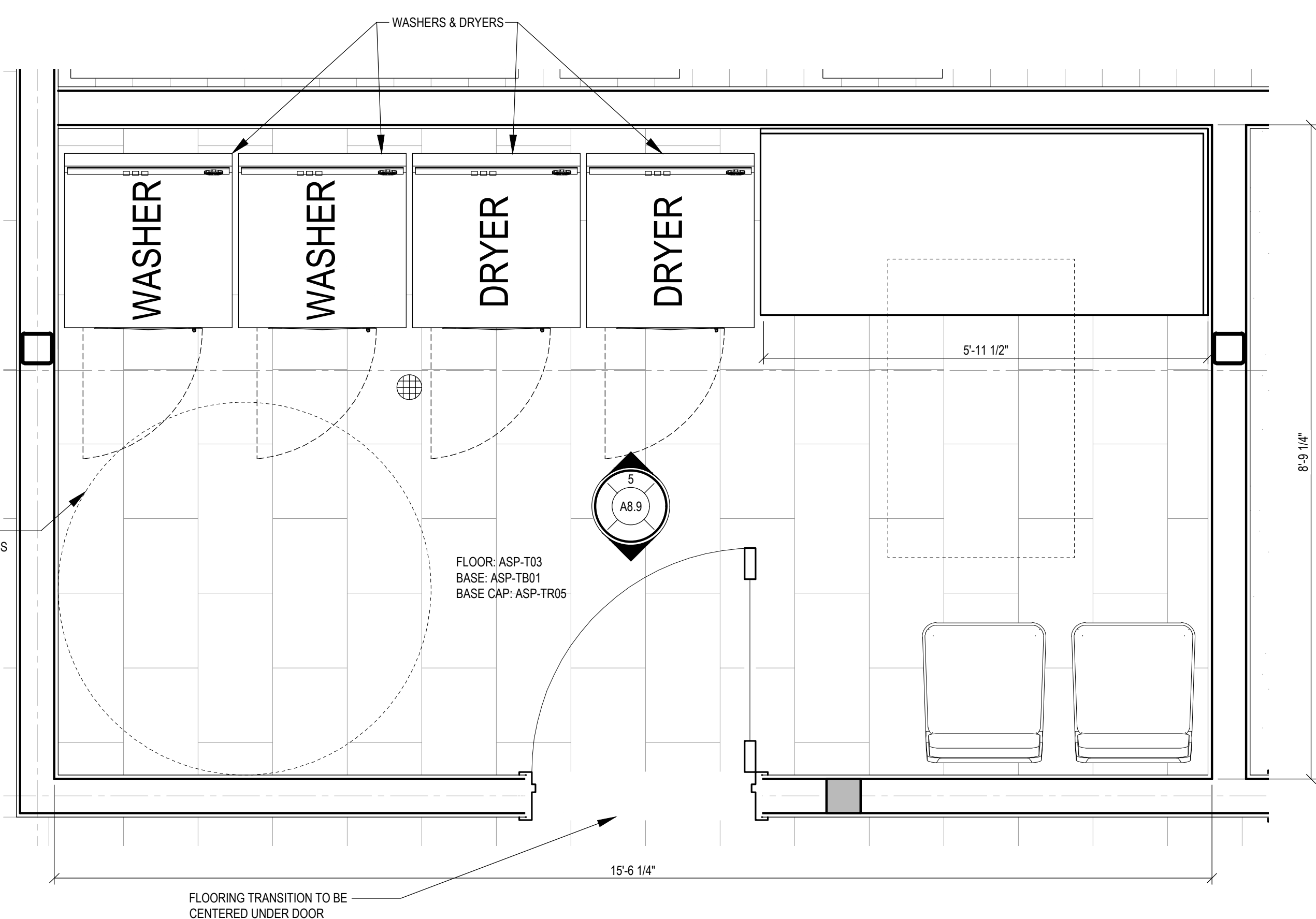
5
GUEST LAUNDRY WEST ELEVATION
SCALE: 3/4" = 1'-0"



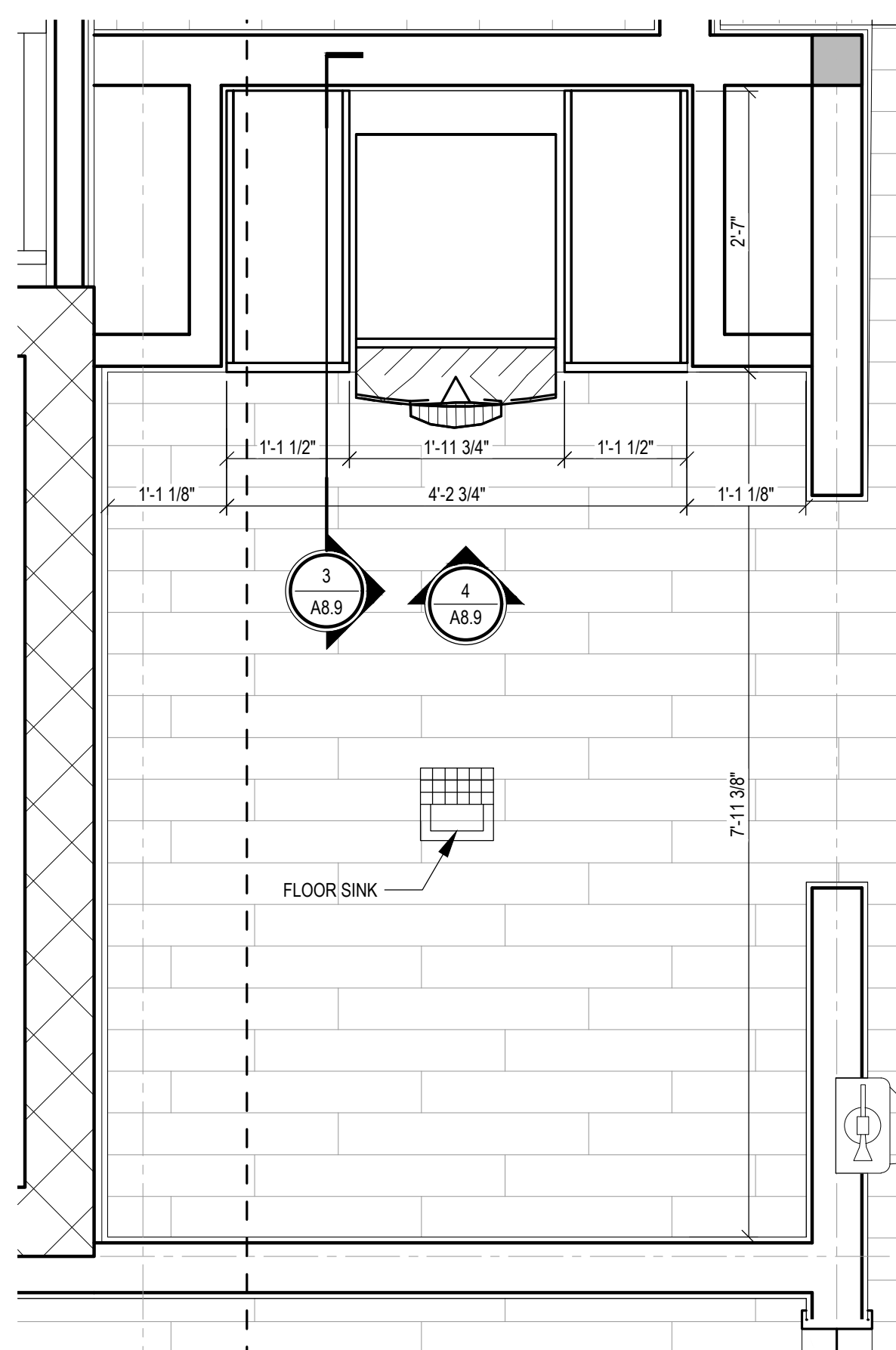
6
GUEST LAUNDRY SOUTH ELEVATION
SCALE: 3/4" = 1'-0"



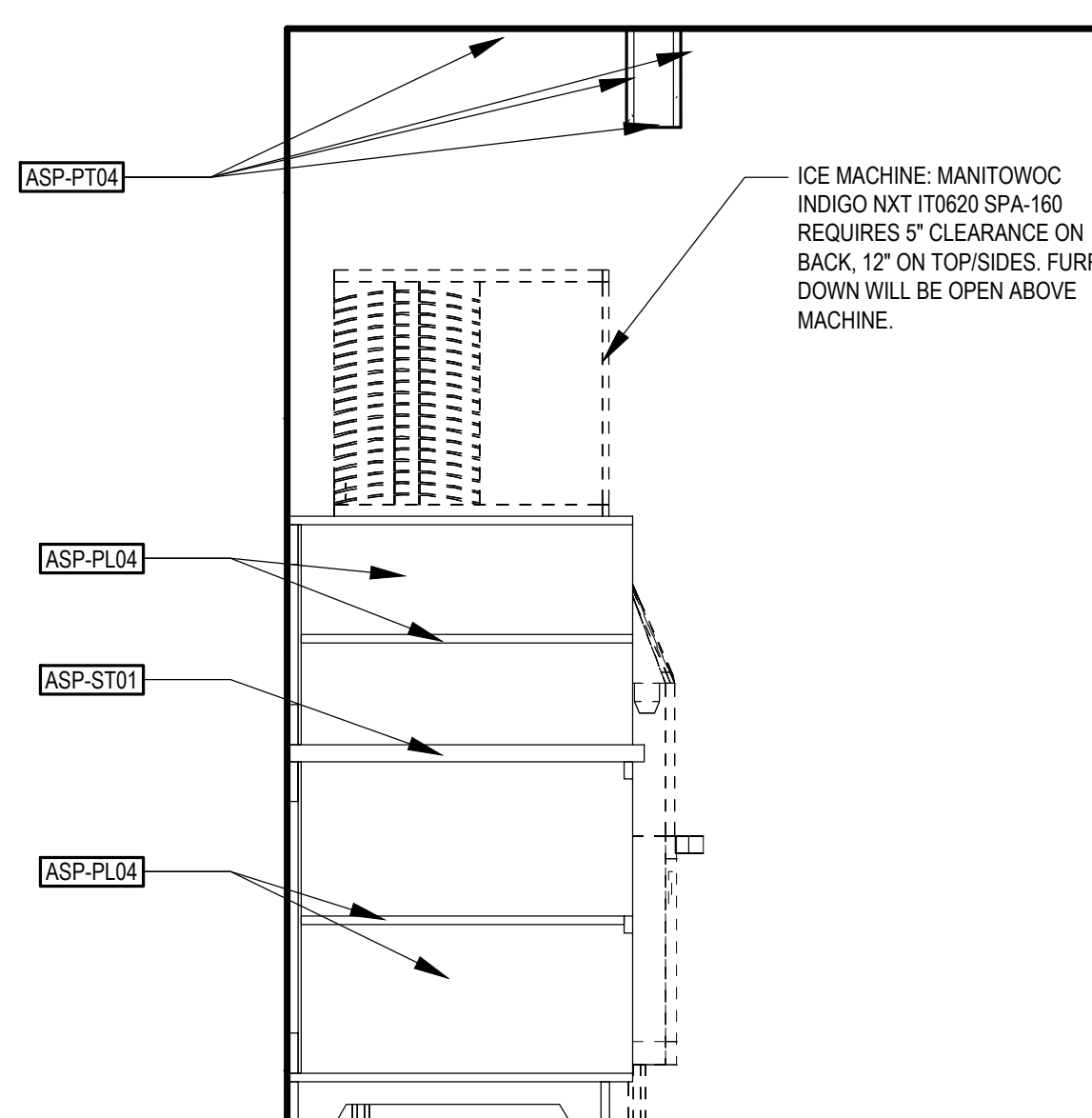
7
ENLARGED PLAN - FITNESS CENTER MILLWORK
SCALE: 3/4" = 1'-0"



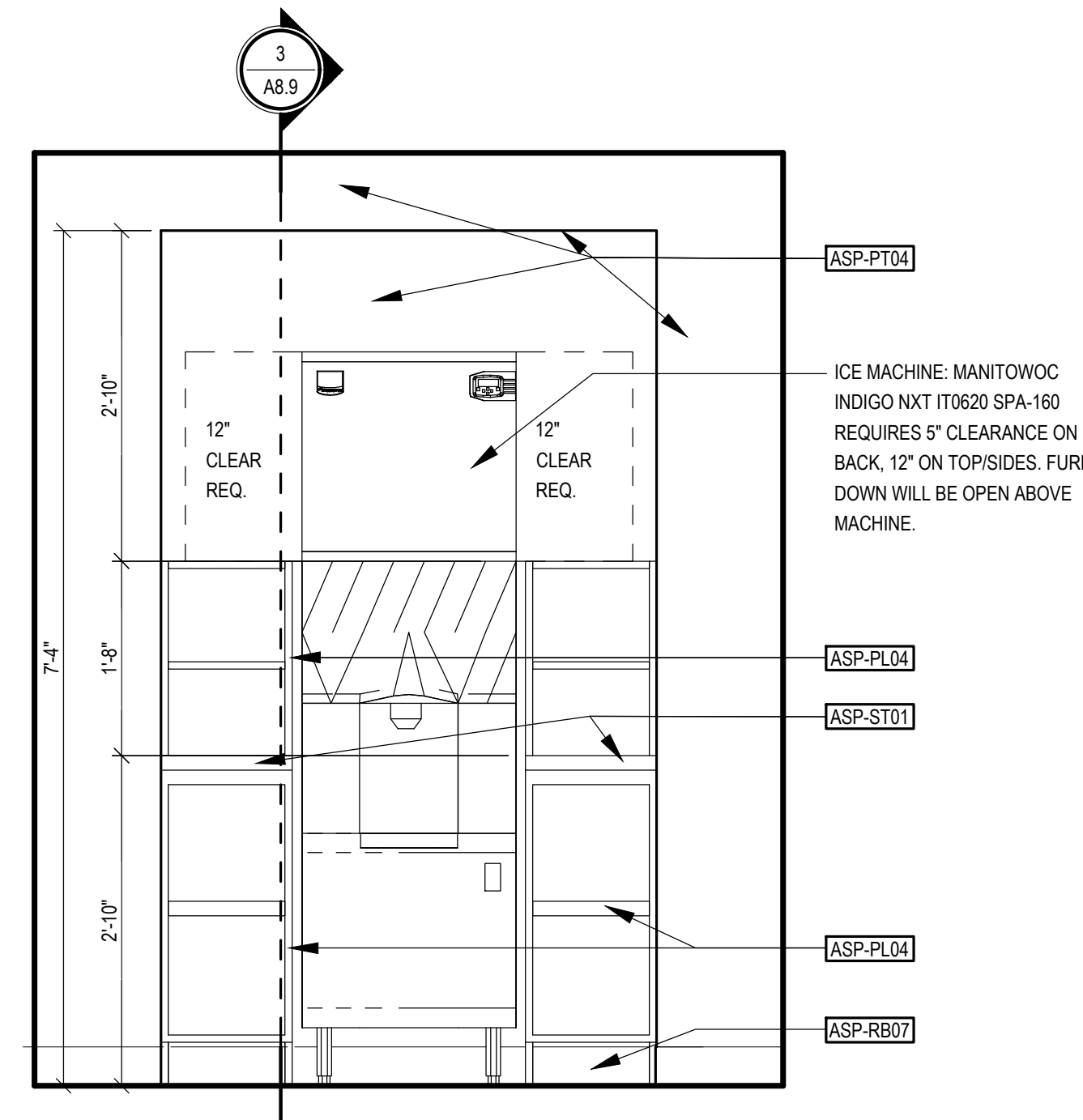
1
ENLARGED PLAN - GUEST LAUNDRY
SCALE: 3/4" = 1'-0"



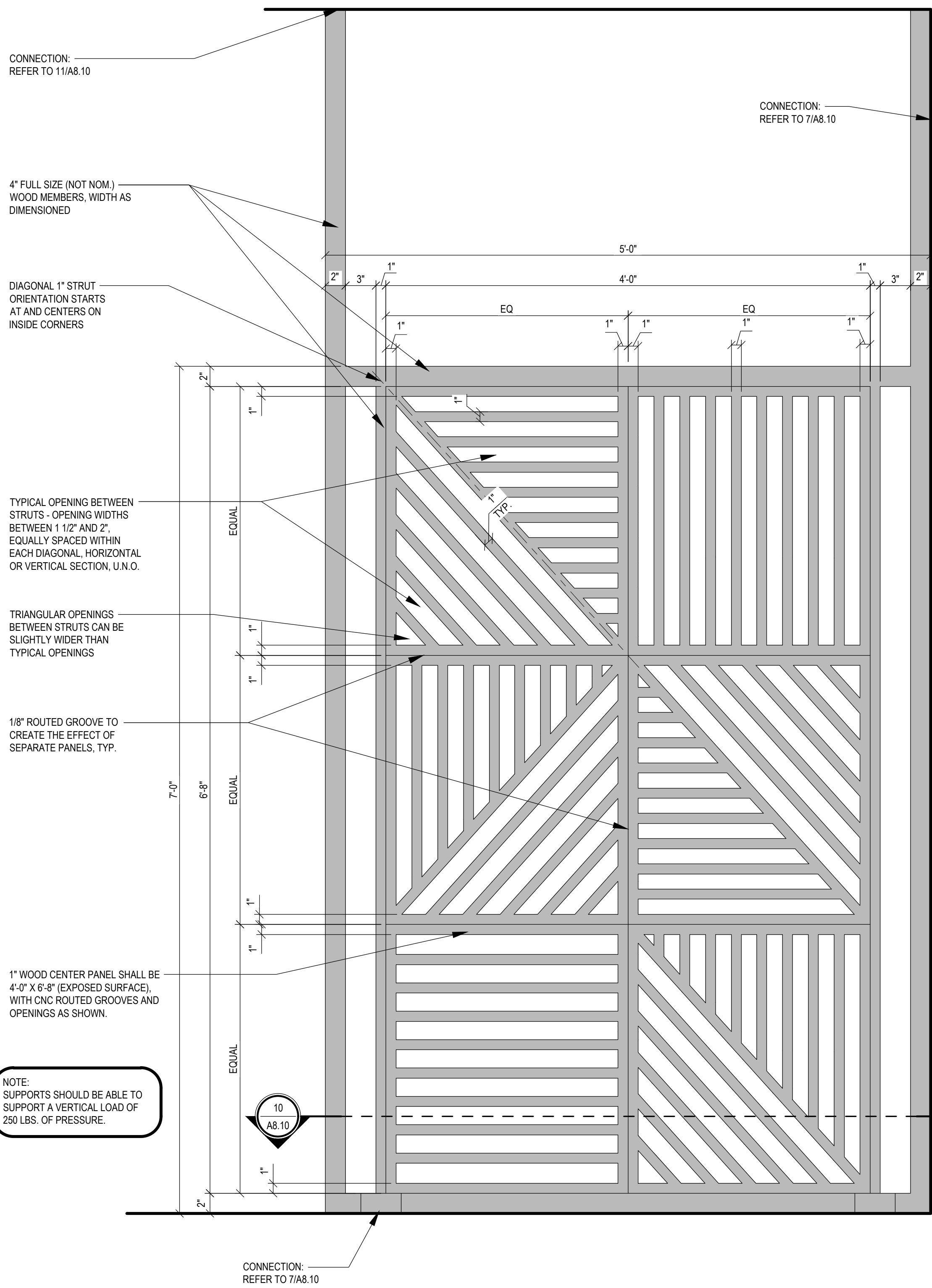
2
ENLARGED PLAN - 2ND FLOOR ICE AREA
SCALE: 1/8" = 1'-0"



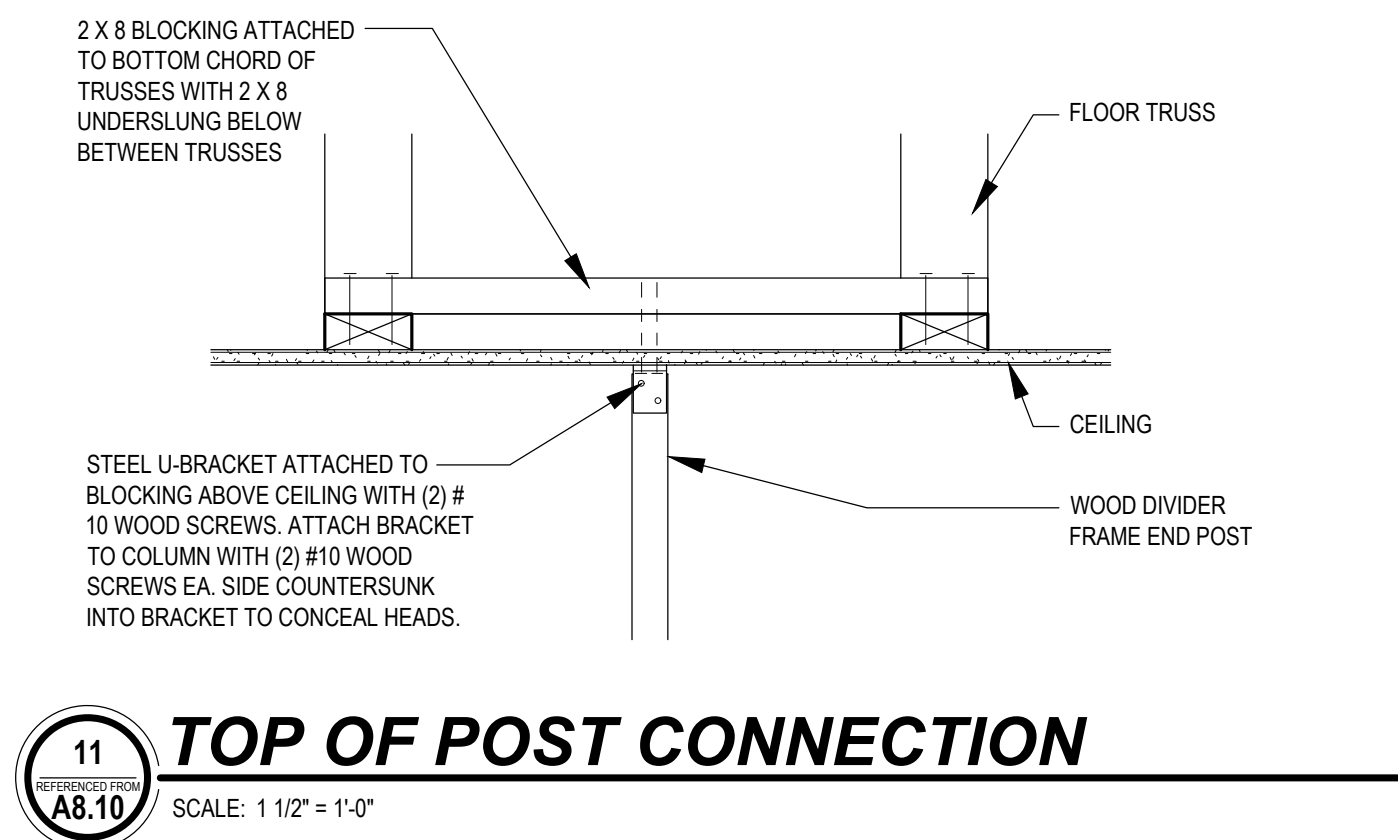
3
SECTION THRU 2ND FLOOR ICE MACHINE
SCALE: 3/4" = 1'-0"



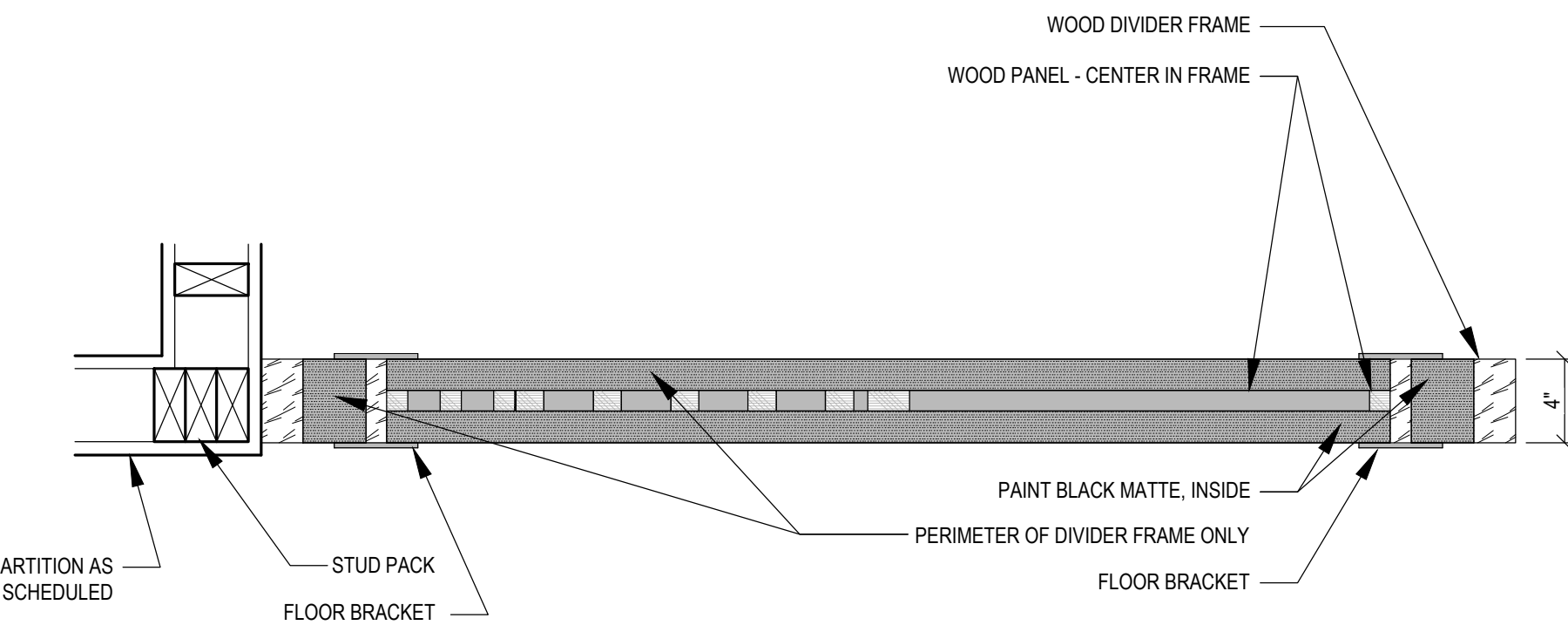
4
ELEVATION OF 2ND FLOOR ICE AREA
SCALE: 3/4" = 1'-0"



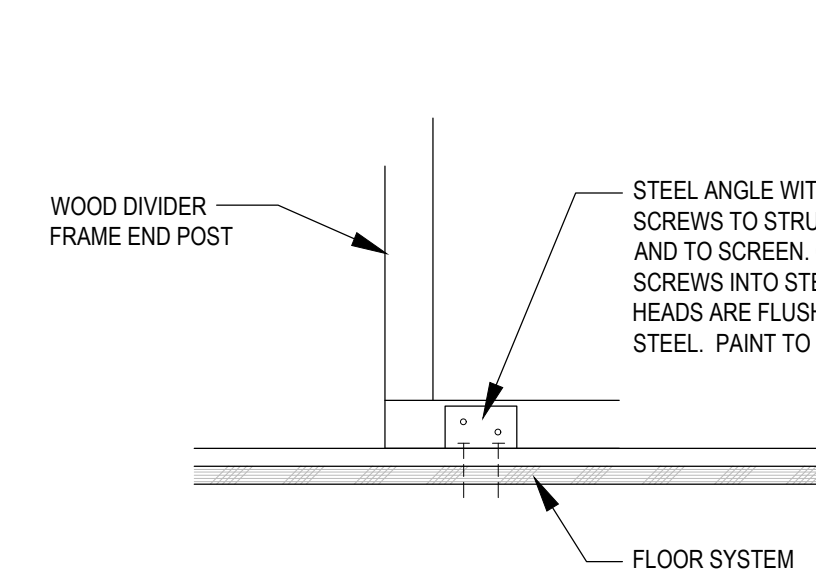
6 FITNESS CENTER - DIVIDER WALL ELEVATION
SCALE: 1 1/2" = 1'-0"



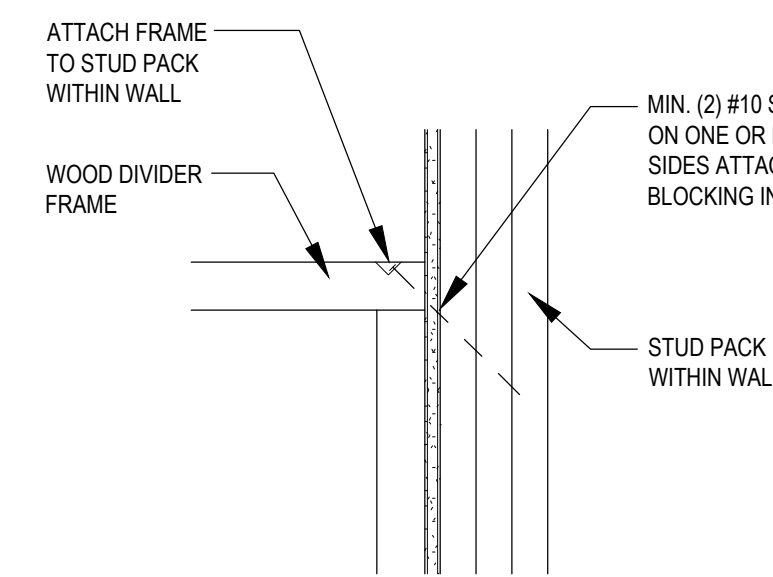
11 TOP OF POST CONNECTION
SCALE: 1 1/2" = 1'-0"



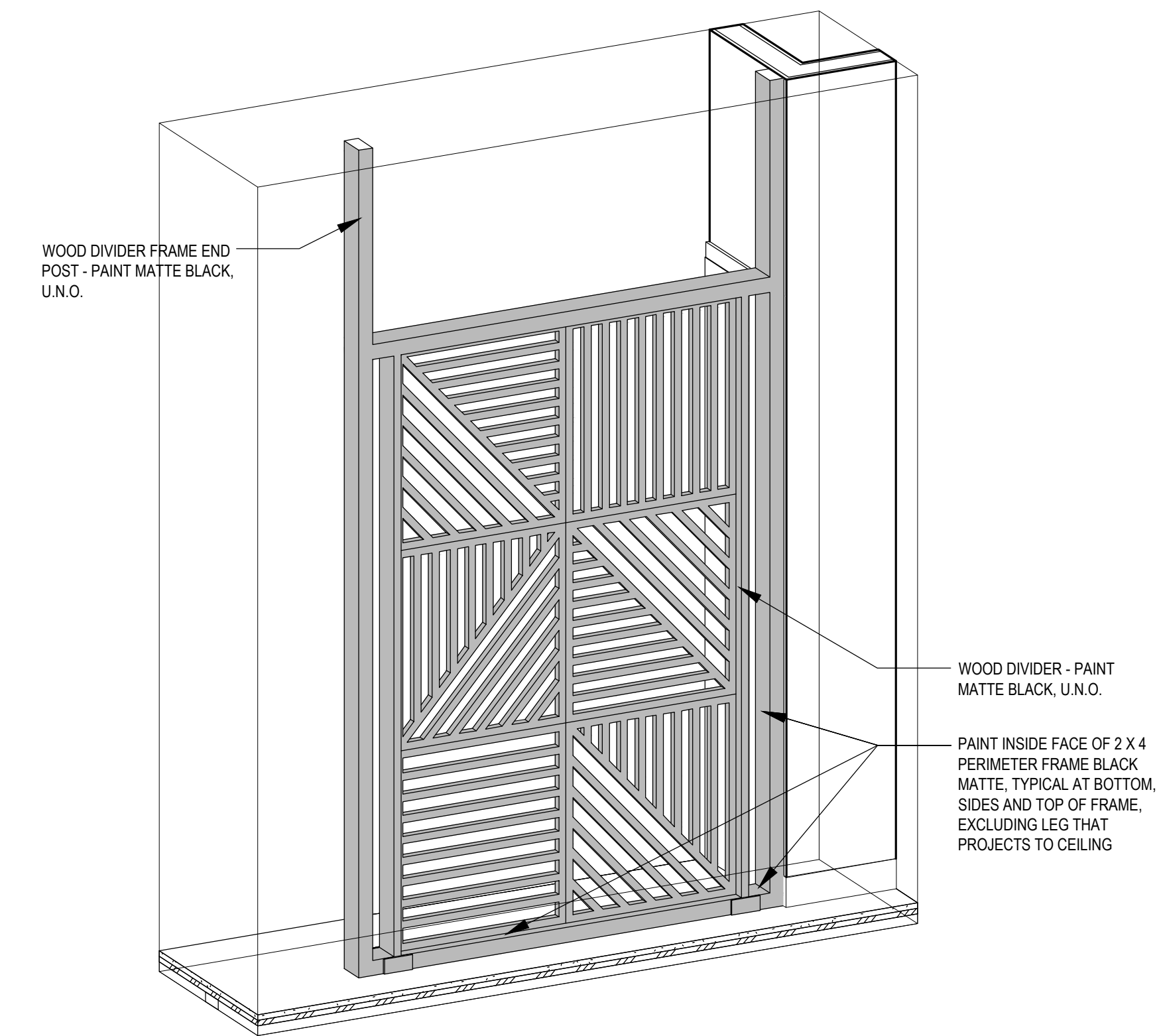
10 FITNESS CENTER - DIVIDER PLAN VIEW
SCALE: 1 1/2" = 1'-0"



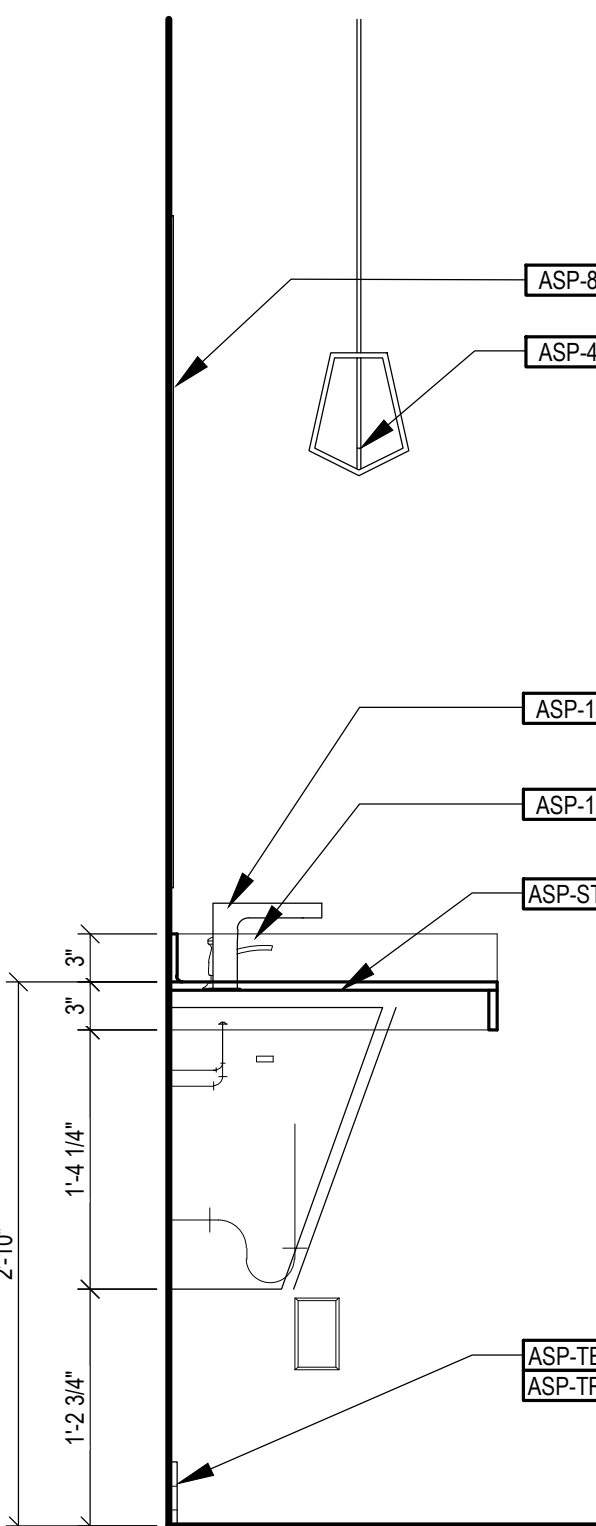
7 FITNESS DIVIDER FRAME TO FLOOR
SCALE: 1 1/2" = 1'-0"



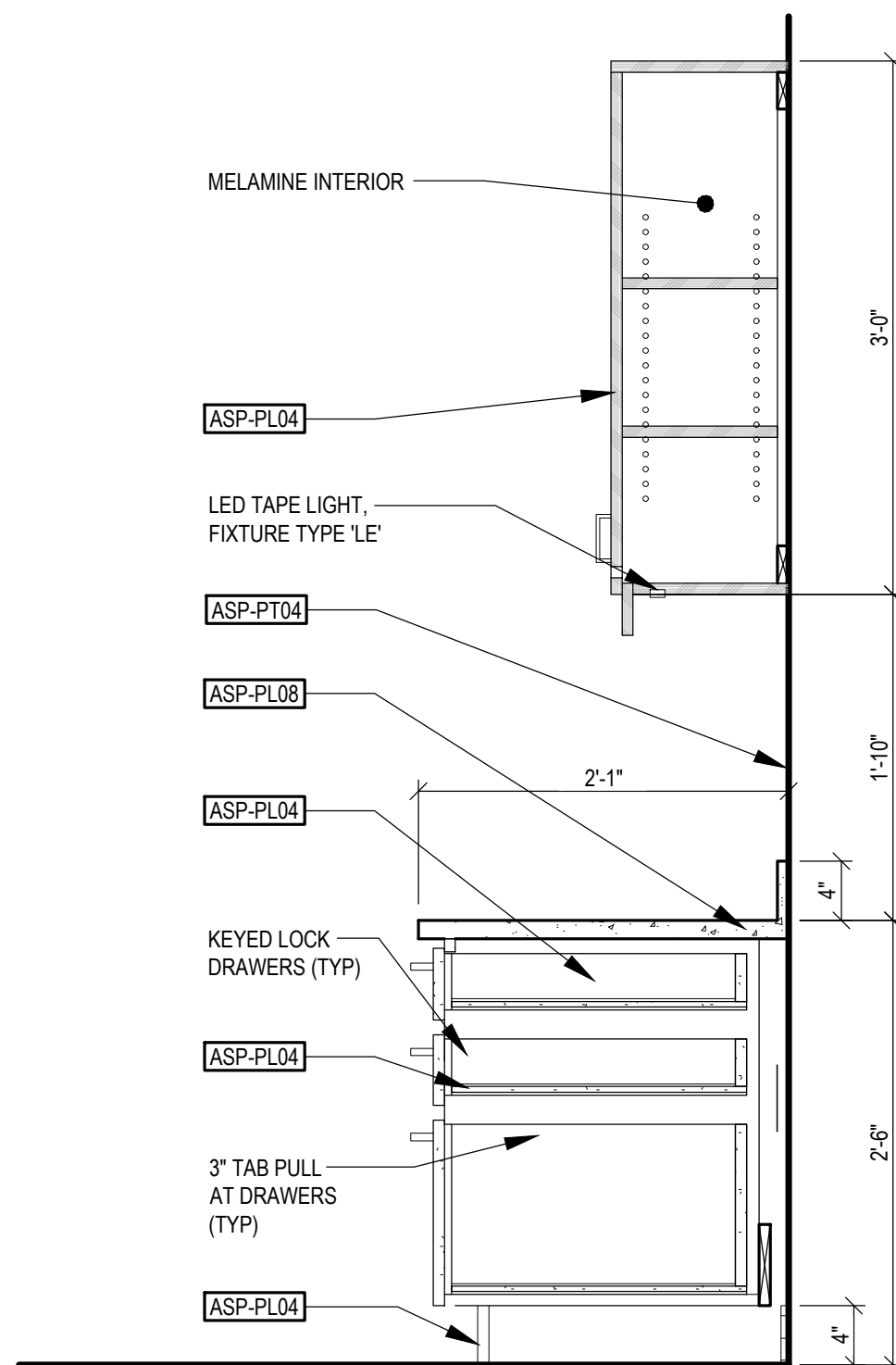
8 FITNESS DIVIDER FRAME TO WALL
SCALE: 1 1/2" = 1'-0"



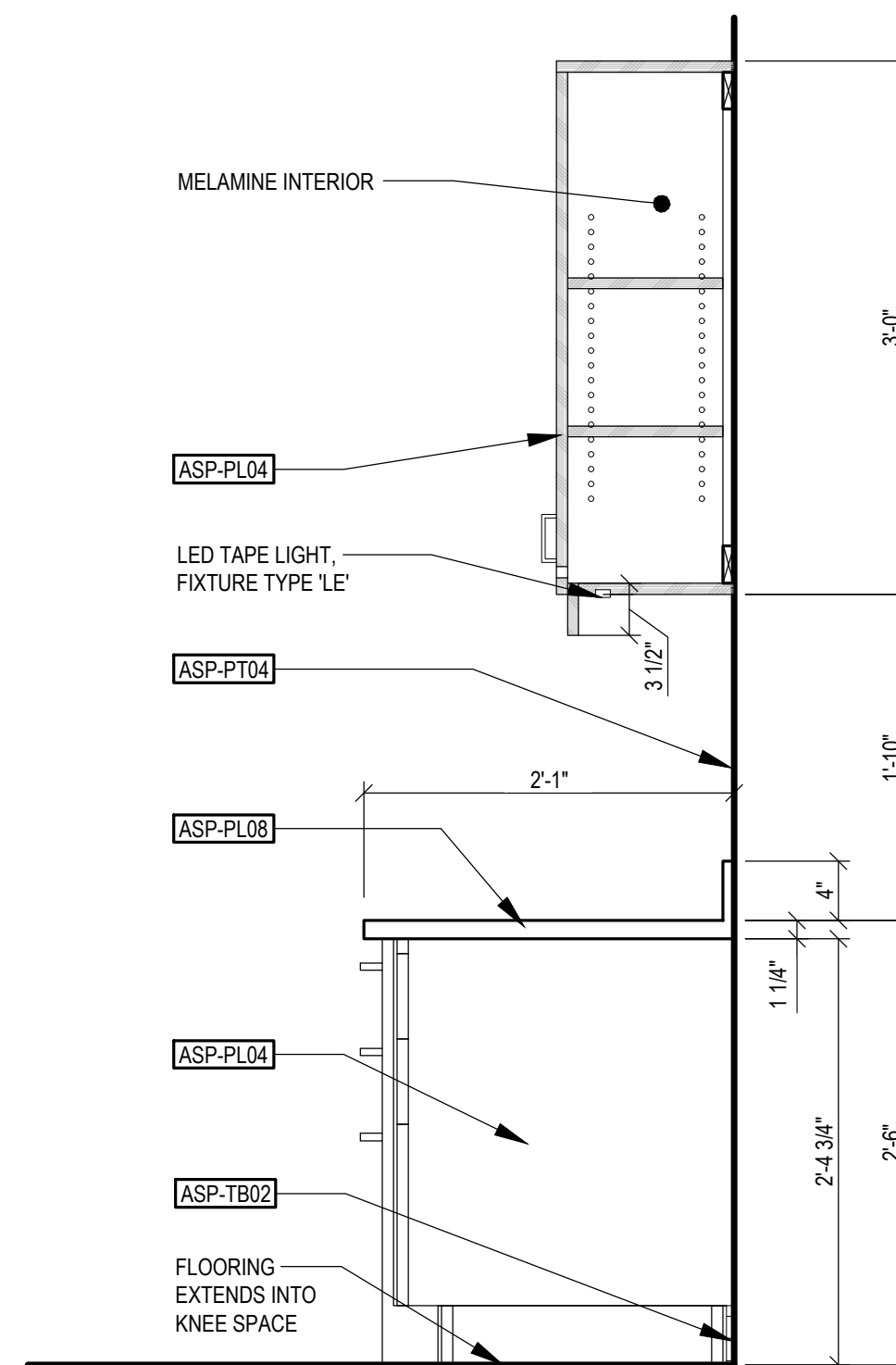
9 FITNESS CENTER DIVIDER WALL - 3D VIEW
SCALE: N/A



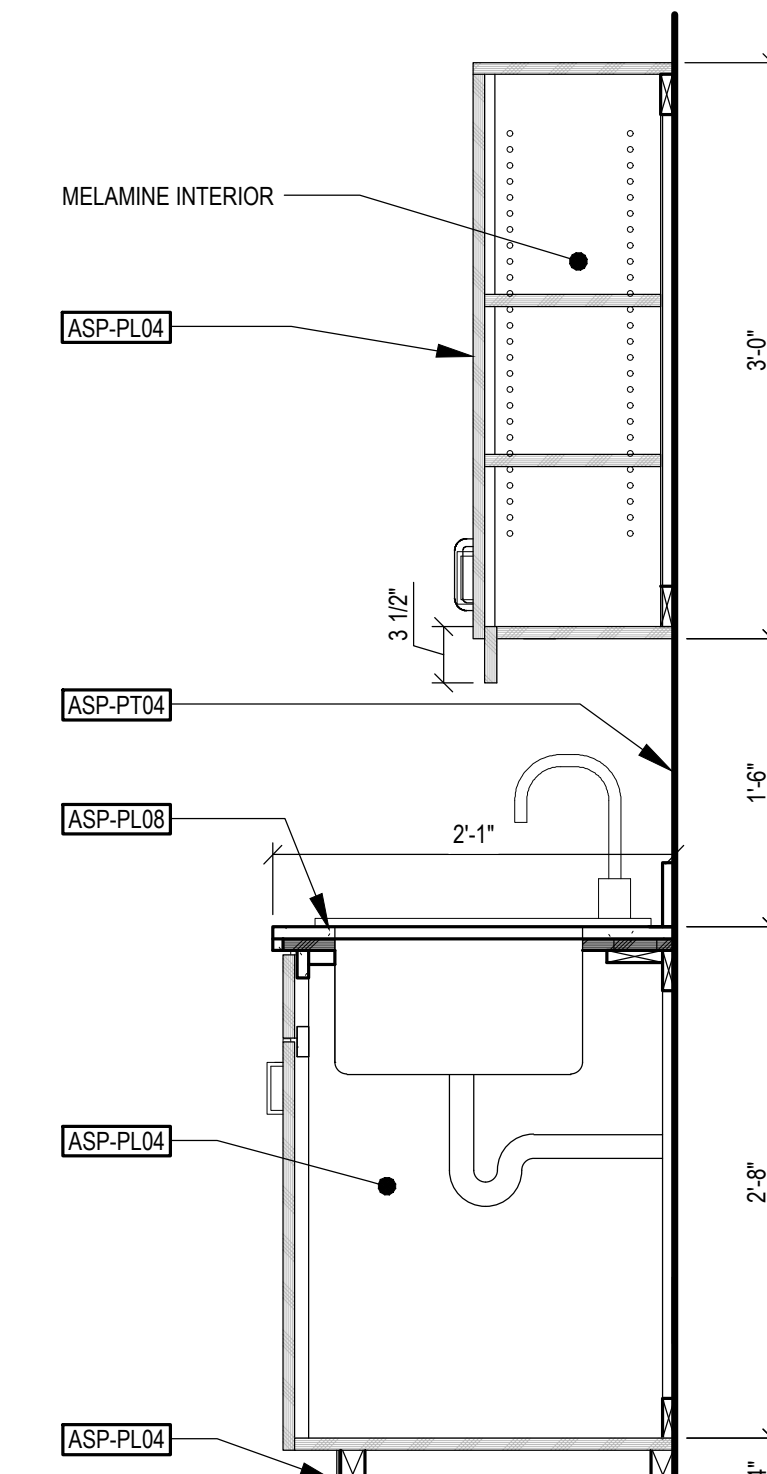
1 1ST FLOOR PUBLIC RR SINK SECTION
SCALE: 1" = 1'-0"



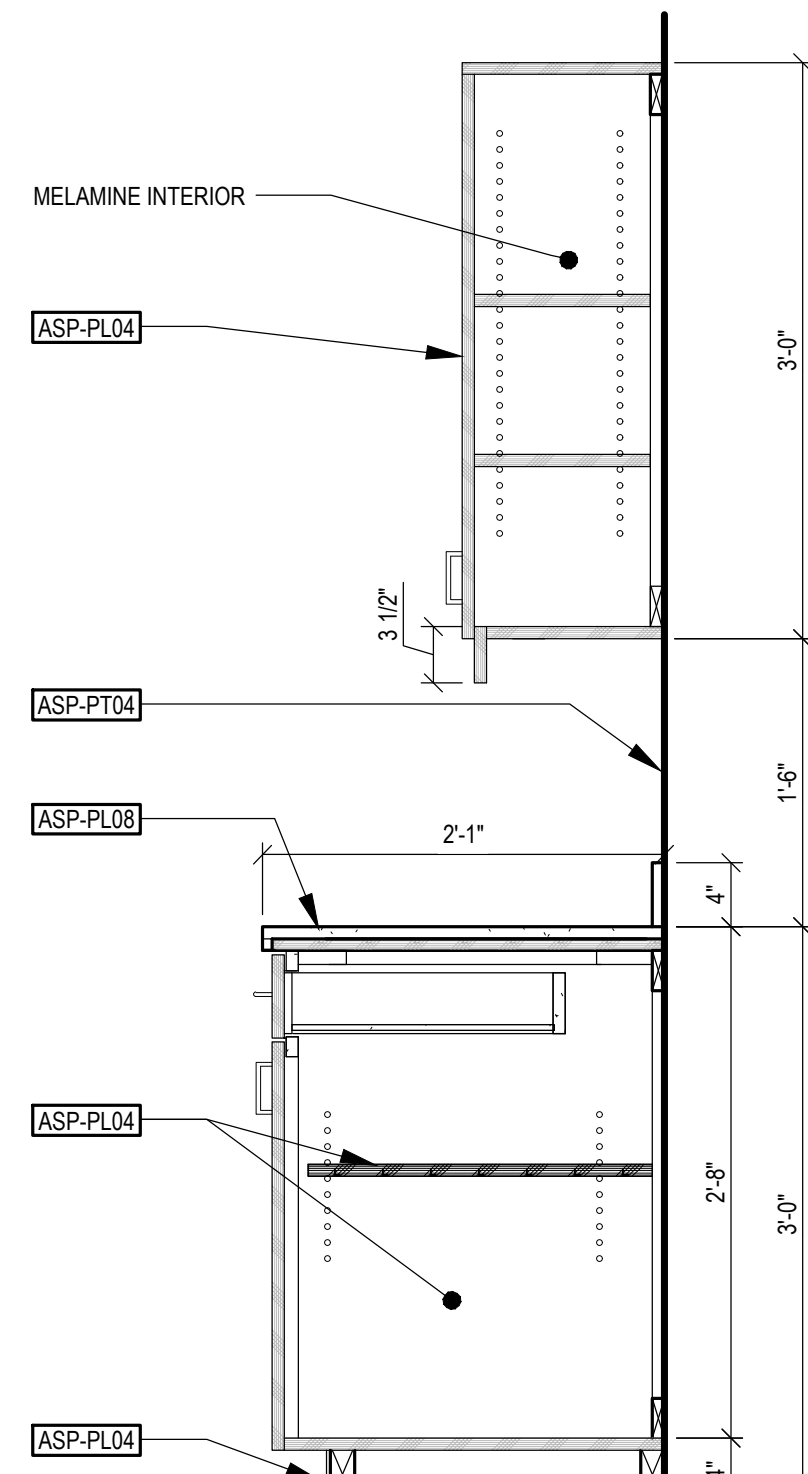
2 WORKROOM MILLWORK SECTION
SCALE: 1" = 1'-0"



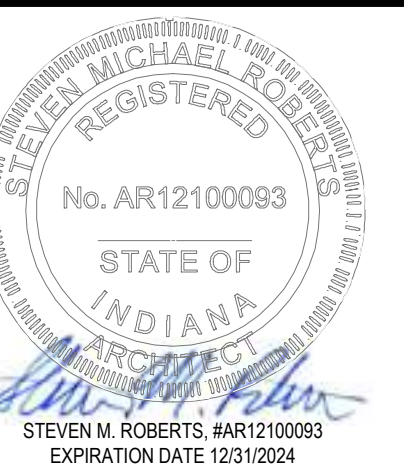
3 WORKROOM MILLWORK SECTION
SCALE: 1" = 1'-0"



4 EMPLOYEE BREAKROOM SINK MILLWORK SECTION
SCALE: 1" = 1'-0"



5 EMPLOYEE BREAKROOM MILLWORK SECTION
SCALE: 1" = 1'-0"



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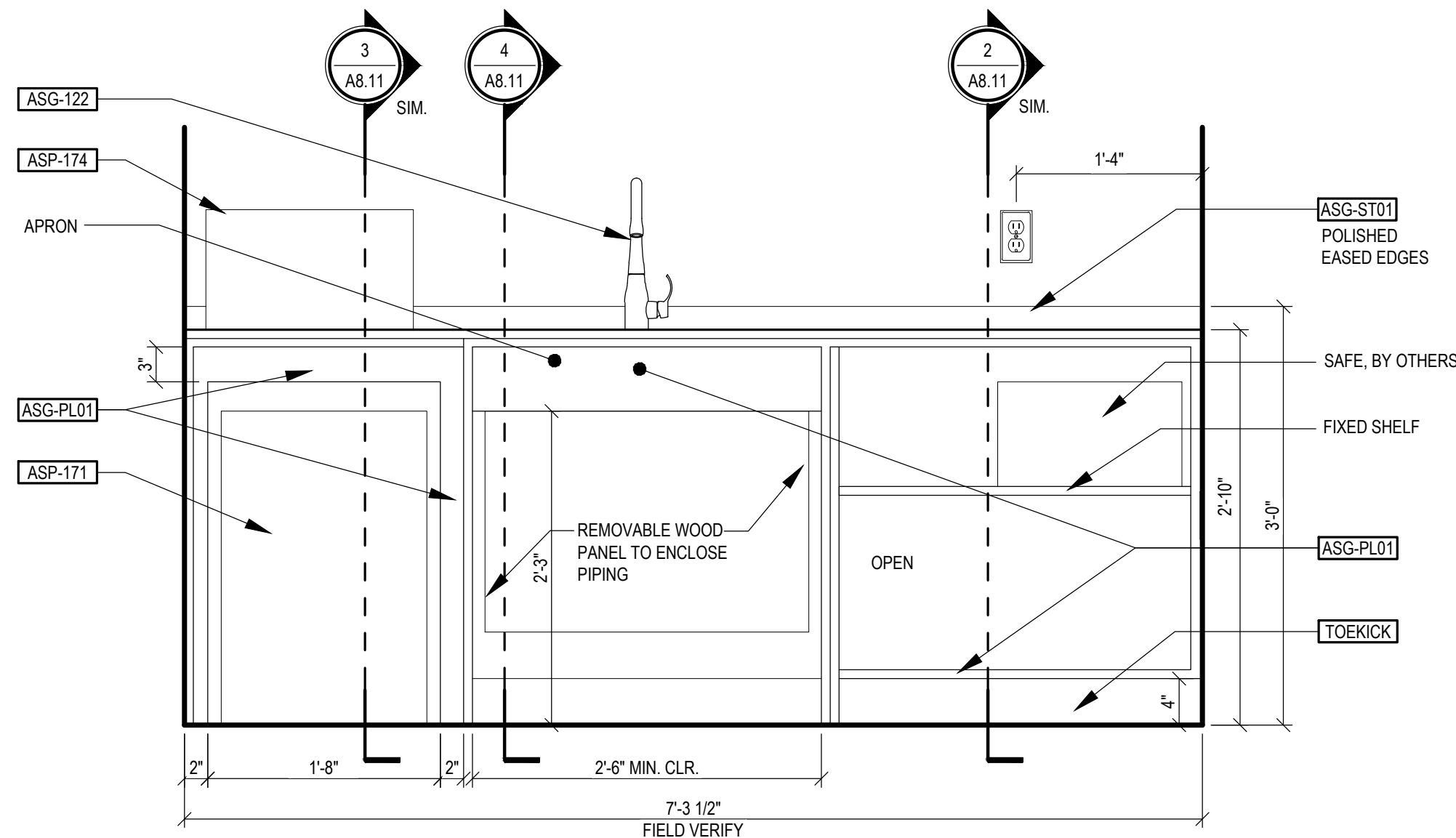
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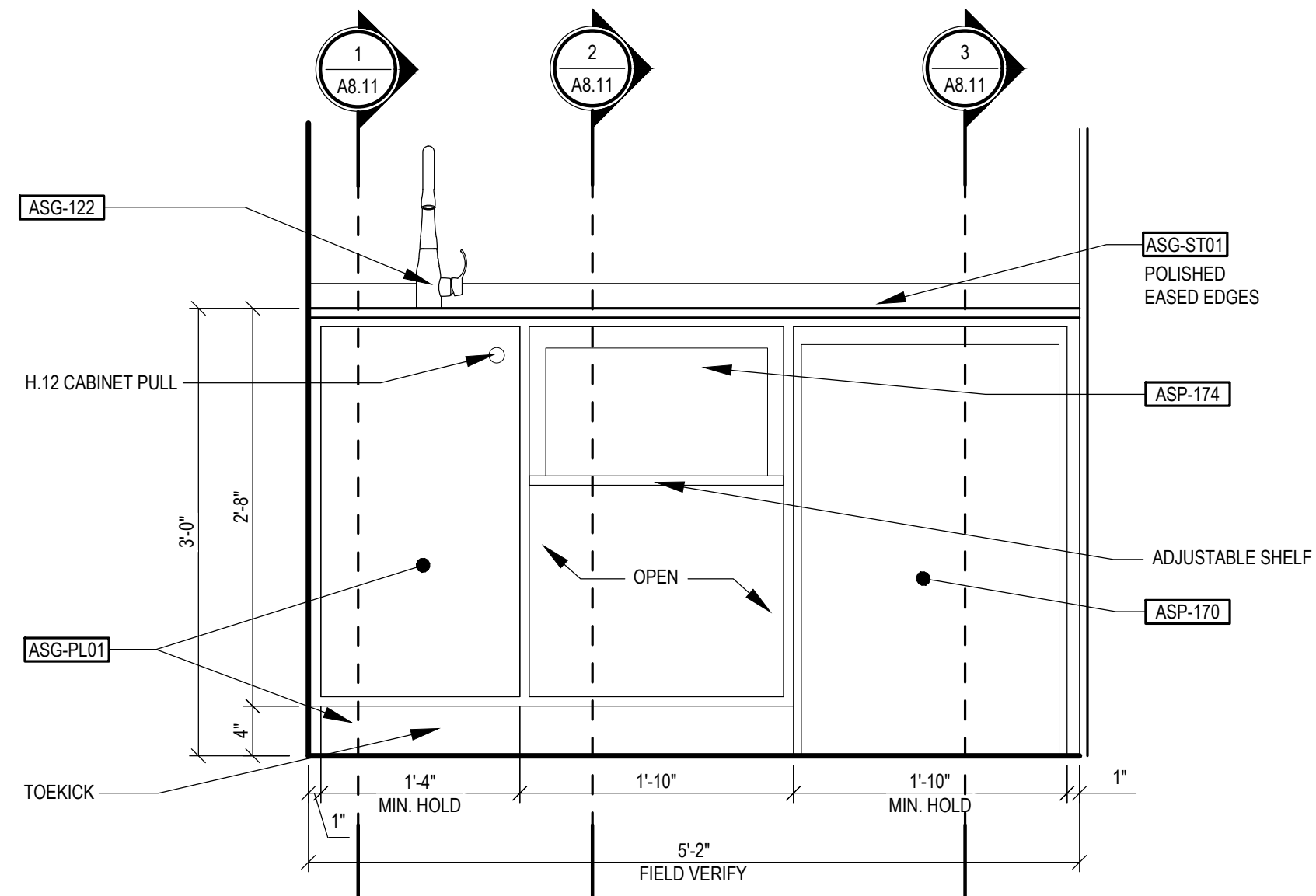
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11/17/2023	SAXONY DESIGN REVIEW 2
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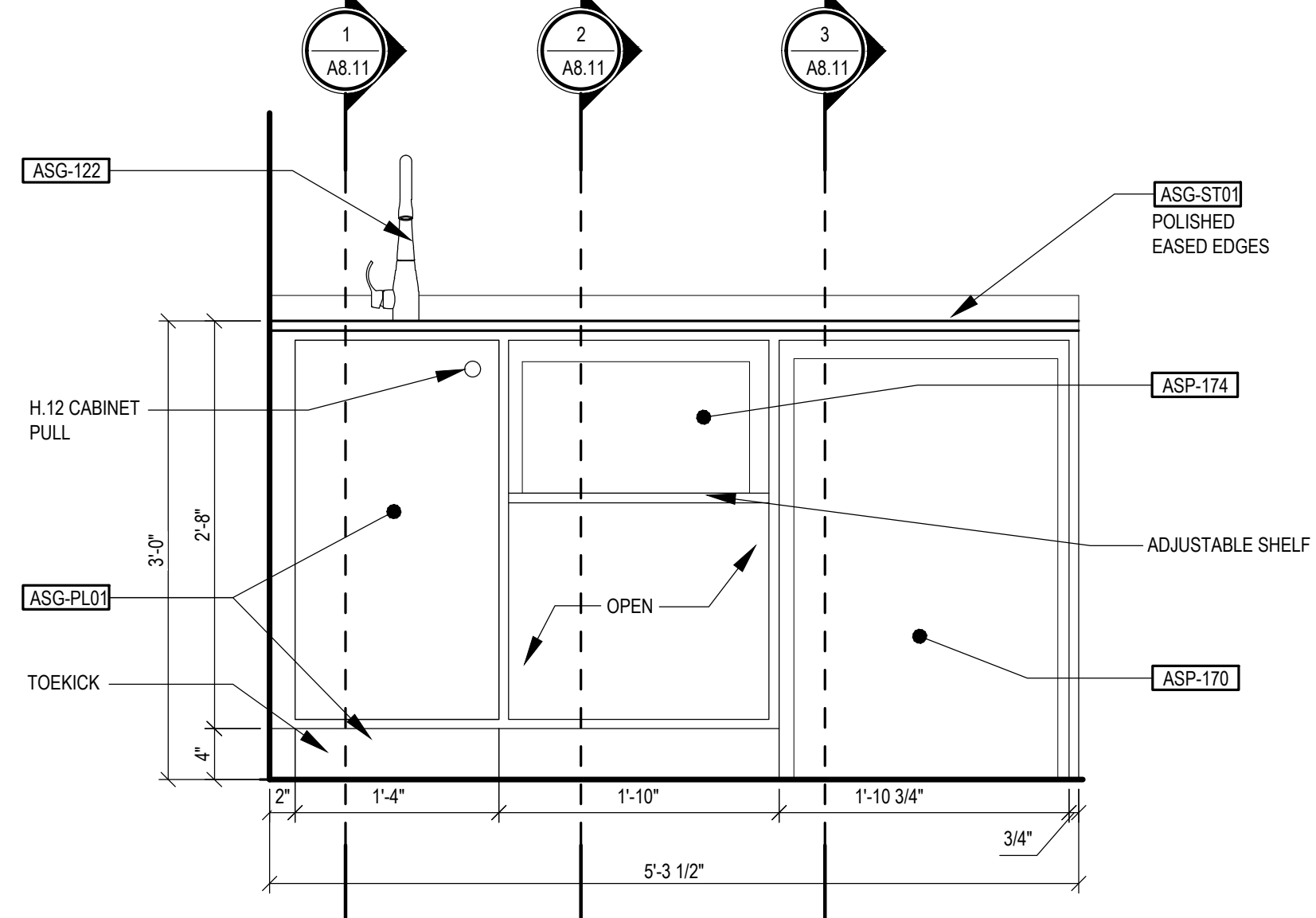
A8.10



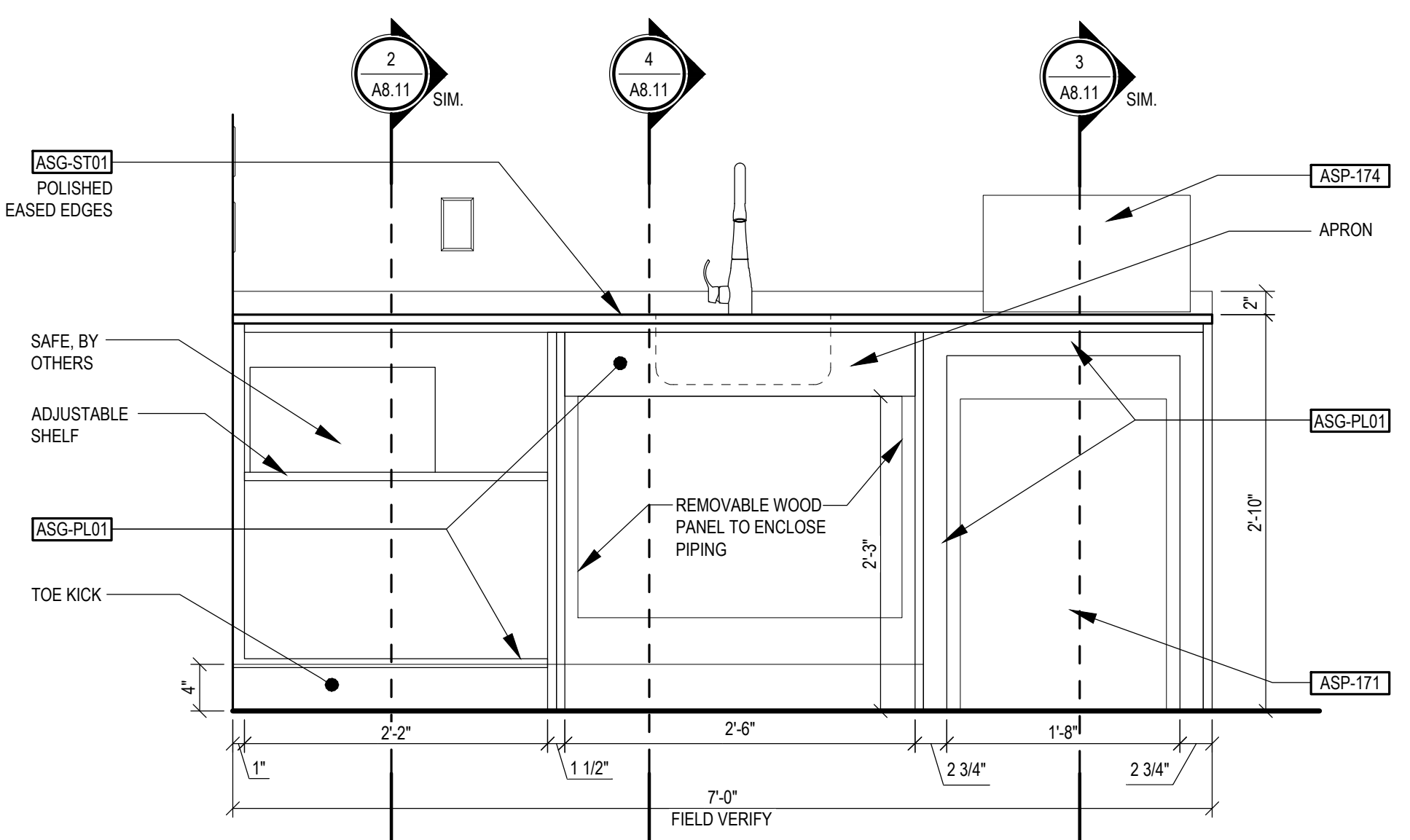
9 KING SUITE ACCESSIBLE WET BAR ELEVATION
SCALE: 1" = 1'-0"



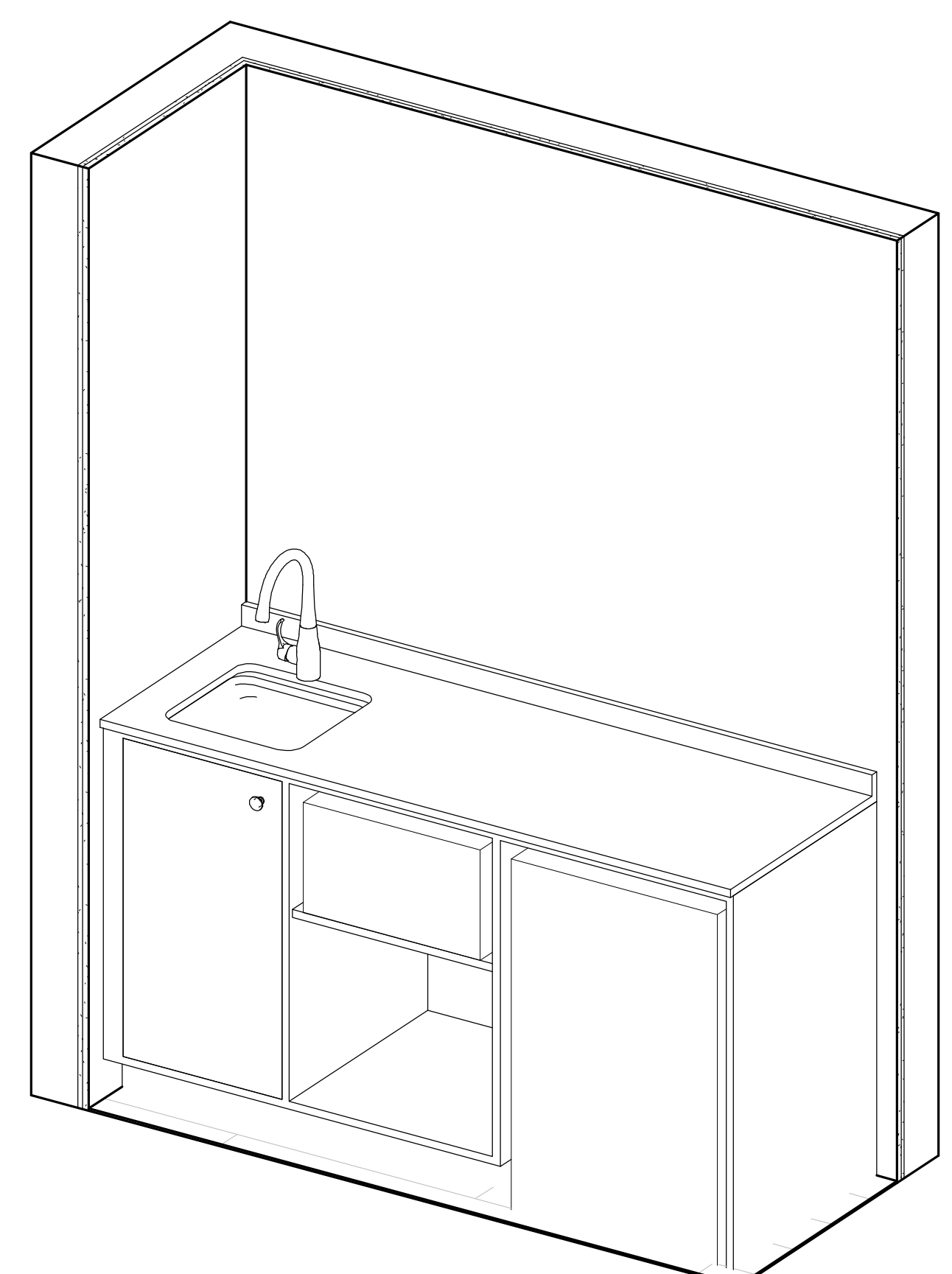
5 KING WET BAR ELEVATION
SCALE: 1" = 1'-0"



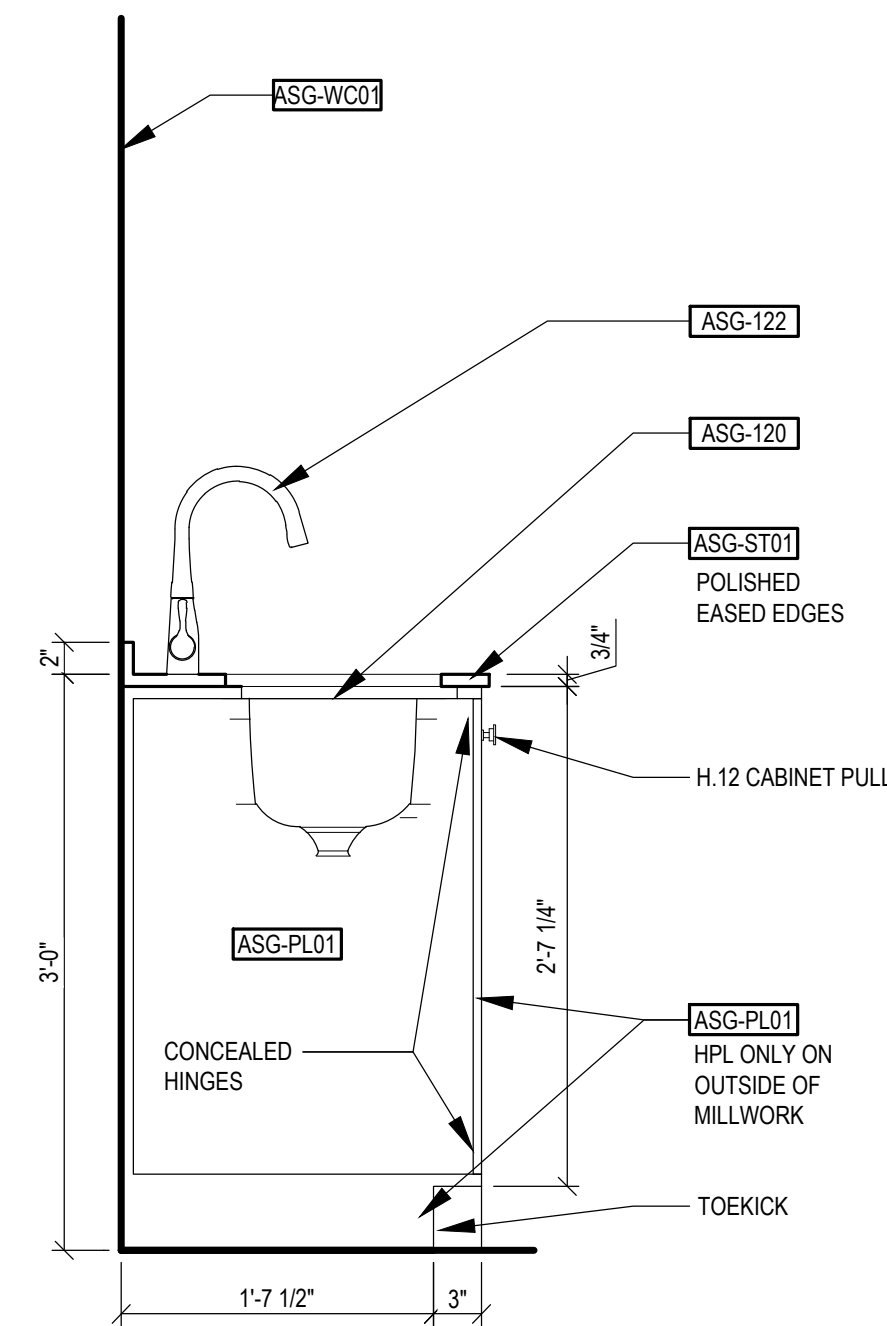
6 QUEEN WET BAR ELEVATION
SCALE: 1" = 1'-0"



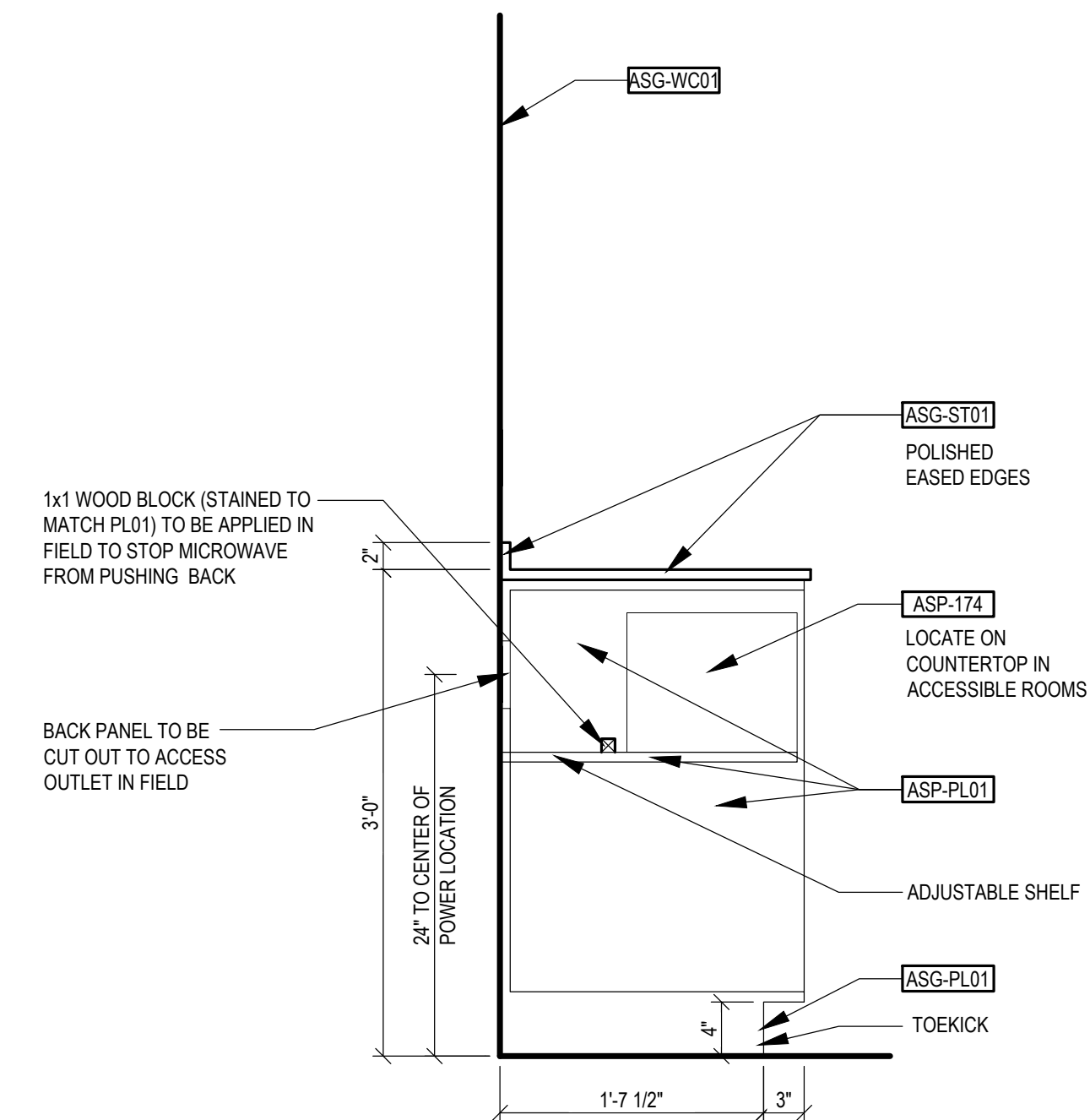
7 QUEEN/QUEEN ADA SUITE BAR ELEVATION
SCALE: 1" = 1'-0"



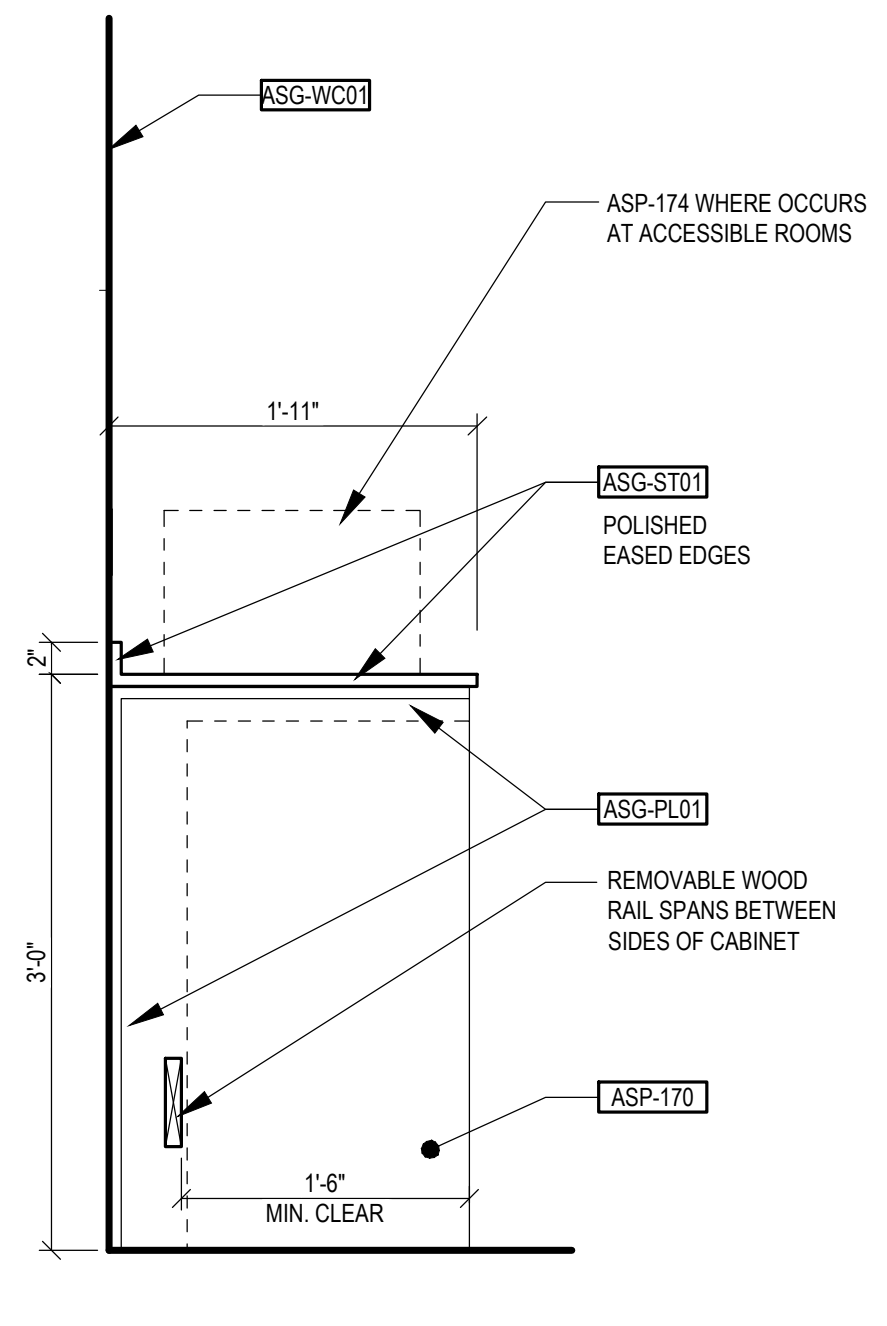
8 QUEEN STD WET BAR 3D VIEW
SCALE: N/A



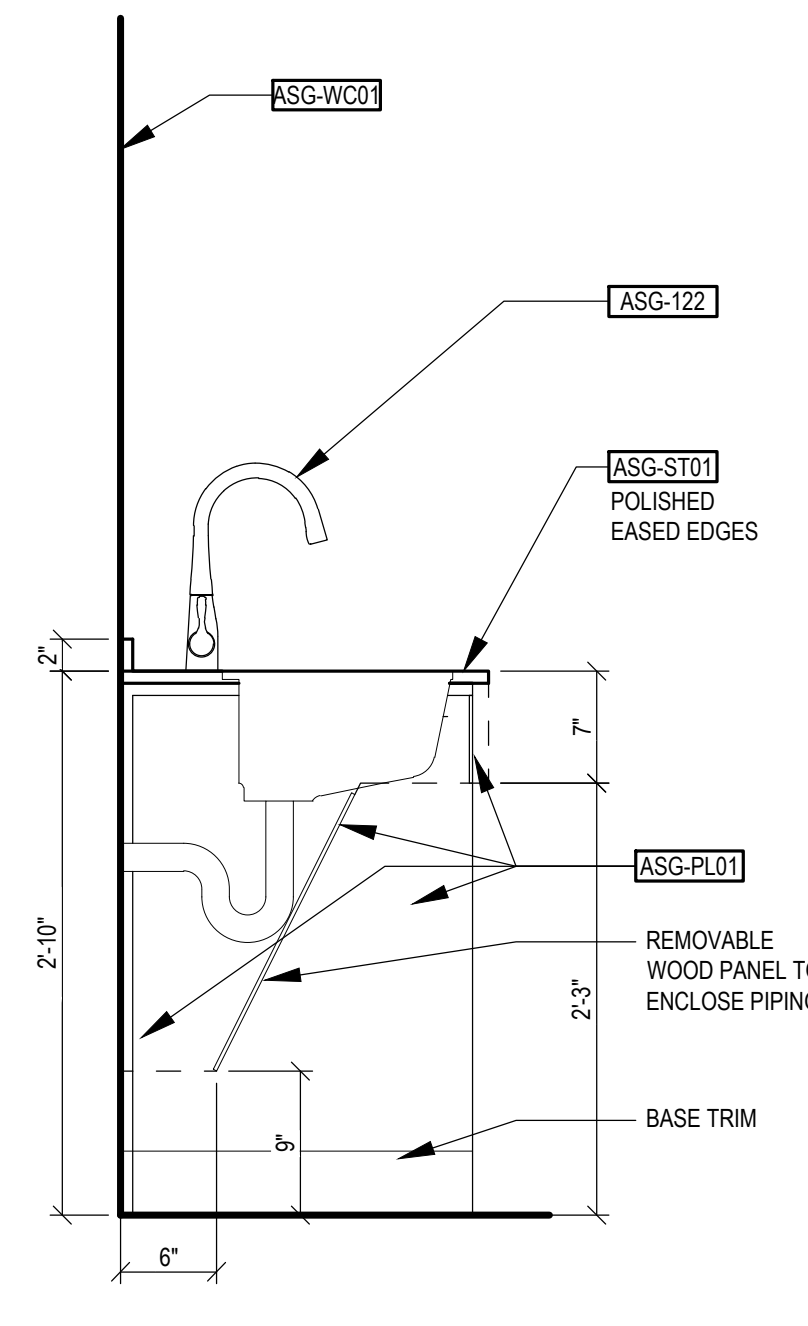
1 GUESTROOM WET BAR SINK SECTION
SCALE: 1" = 1'-0"



2 GUESTROOM WET BAR SECTION AT MICROWAVE
SCALE: 1" = 1'-0"



3 GUESTROOM WET BAR SECTION
SCALE: 1" = 1'-0"



4 ACCESSIBLE GUEST ROOM WET BAR SINK SECTION
SCALE: 1" = 1'-0"

STEVEN MICHAEL ROBERTS
REGISTERED ARCHITECT
No. AR12100093
STATE OF INDIANA
STEVEN M. ROBERTS, MPT 0100093
EXPIRATION DATE 12/31/2024

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HAMILTON COUNTY

GUESTROOM MILLWORK DETAILS

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A8.11

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PLUMBING SPECIFICATIONS

1. GENERAL PROVISIONS

- A. THE PROVISIONS OF THE INSTRUCTIONS TO BIDDERS, GENERAL CONDITIONS, SUPPLEMENTARY CONDITIONS, ALTERNATES, ADDENDAS', AND DIVISION 1 ARE A PART OF THIS SPECIFICATION. CONTRACTORS AND SUBCONTRACTORS SHALL EXAMINE SAME AS WELL AS OTHER DIVISIONS OF THE SPECIFICATIONS WHICH AFFECT WORK UNDER THIS DIVISION.
- B. THIS CONTRACTOR SHALL PROVIDE ALL LABOR, EQUIPMENT, SUPPLIES, SERVICES, AND SHALL PERFORM ALL WORK COMPLETE AND IN STRICT ACCORDANCE WITH THIS SPECIFICATION AND APPLICABLE DRAWINGS. ANY DEVIATIONS SHALL BE CLEARLY DEFINED AND ITEMIZED IN ACCORDANCE WITH SECTION 10.F OF THIS SPECIFICATION.
- C. THIS CONTRACTOR IS INSTRUCTED TO READ CAREFULLY THE SPECIFICATIONS FOR ALL PARTS OF THE WORK, WHICH INCLUDE THE ARCHITECTURAL, ELECTRICAL, MECHANICAL, PLUMBING, FIRE PROTECTION, CIVIL, STRUCTURAL AND ALL OTHER DRAWINGS AS WELL AS THE SPECIFICATIONS FOR ALL THE DIVISIONS THAT ARE PART OF THE CONTRACT DOCUMENTS.
- D. ALL ITEMS OF LABOR, MATERIAL AND EQUIPMENT NOT SPECIFICALLY MENTIONED HEREIN OR SHOWN ON PLANS, BUT INCIDENTAL TO, OR REQUIRED FOR THE COMPLETE INSTALLATION AND PROPER OPERATION OF THE WORK, SHALL BE FURNISHED AS IF CALLED FOR IN DETAIL BY THE SPECIFICATIONS OR DRAWINGS.
- E. AS USED IN THIS SPECIFICATION, "PROVIDE" MEANS "FURNISH AND INSTALL." "FURNISH" MEANS "TO PURCHASE AND DELIVER TO THE PROJECT SITE COMPLETE WITH EVERY NECESSARY APPURTENANCE AND SUPPORT" AND "INSTALL" MEANS "TO UNLOAD AT THE DELIVERY POINT AT THE SITE AND PERFORM EVERY OPERATION NECESSARY FOR PROPER INSTALLATION. PER CODES AND MANUFACTURERS' REQUIREMENTS, TO ESTABLISH SECURE MOUNTING AND CORRECT OPERATION AT THE PROPER LOCATION IN THE PROJECT.

2. PERMITS, CODES, INSPECTIONS, AND TESTS

- A. THE PLUMBING CONTRACTOR SHALL SECURE AND PAY FOR ALL PERMITS AND INSPECTIONS REQUIRED FOR THE PROSECUTION OF PLUMBING WORK. ALL PERMITS AND CERTIFICATES OF INSPECTION AND APPROVAL SIGNED BY THE CONTROLLING BUILDING DEPARTMENT SHALL BECOME PROPERTY OF THE OWNER.
- B. DRAWINGS INDICATE THE MINIMUM DESIGN REQUIREMENTS. NATIONAL, STATE, AND LOCAL CODES SHALL BE FOLLOWED. COMPLY WITH THE FOLLOWING PROVISIONS OF THE LOCAL GOVERNING PLUMBING CODE, LOCAL GOVERNING MECHANICAL AND NFPA STANDARDS. THE CONTRACTOR SHALL INCLUDE THE COST OF SATISFYING SUCH CODES AND STANDARDS IN HIS BID.FOLLOWING COMPLETION OF THE PLUMBING WORK, FURNISH TO THE OWNER, IN DUPLICATE, CERTIFICATES OF INSPECTION AND APPROVAL BY REGULATORY AGENCIES HAVING JURISDICTION.

- (1) DEMONSTRATE TO THE OWNER'S SATISFACTION THE PROPER OPERATION OF EACH OF THE SYSTEMS COMPRISING THIS CONTRACT BEFORE FINAL PAYMENT.
- (2) IMMEDIATELY CORRECT ANY WORK FOUND AT VARIANCE WITH THESE SPECIFICATIONS, THE NATIONAL, STATE, AND LOCAL CODES, AND REQUIREMENTS OF GOVERNING REGULATORY AGENCIES.
- (3) TEST PIPING FOR LEAKS; REPAIR LEAKS IN COPPER TUBING BY SWEATING OUT JOINTS, THOROUGHLY CLEANING BOTH TUBE AND FITTING, AND RE-SOLDERING OR RE-BRAZING; CORRECT LEAKS IN SCREWED JOINTS BY REPLACING THREAD OR FITTING OR BOTH.
- a. DOMESTIC WATER SHALL BE TESTED WITH WATER AT A PRESSURE OF 125 PSI FOR 6 HOURS.
- b. NATURAL GAS SHALL BE TESTED WITH COMPRESSED AIR AT A PRESSURE OF 1-1/2 TIMES THE PROPOSED MAXIMUM WORKING PRESSURE (BUT NOT LESS THAN 3 PSI) FOR 24 HOURS. TESTING PROCEDURE SHALL CONFORM TO NFPA 54 "NATIONAL FUEL GAS CODE" AND ICC FUEL GAS CODE REQUIREMENTS.
- c. SANITARY DRAIN AND VENT AND STORM PIPING SHALL BE TESTED WITH WATER PER GOVERNING PLUMBING CODE AND THE LOCAL AUTHORITY.

3. VISIT TO THE SITE

- A. THE CONTRACTOR SHALL VISIT THE SITE OF THE WORK AND BECOME FAMILIAR WITH ALL CONDITIONS AFFECTING THE WORK. THE SUPERVISOR SHALL PRESUPPOSE KNOWLEDGE OF ALL SUCH CONDITIONS AND NO ADDITIONAL COMPENSATION SHALL BE ALLOWED WHERE EXTRA LABOR OR MATERIALS ARE REQUIRED BECAUSE OF IGNORANCE OF THESE CONDITIONS.

4. PROTECTION

- A. THE PLUMBING CONTRACTOR SHALL PROVIDE ALL NECESSARY PROTECTION FROM DIRT AND WATER DURING CONSTRUCTION NECESSITATED BY PLUMBING WORK. PROTECTION METHODS ARE SUBJECT TO APPROVAL BY THE ARCHITECT.

5. EQUIPMENT AND MATERIALS

- A. ALL EQUIPMENT AND MATERIALS SHALL BE NEW AND SHALL CONFORM TO UNDERWRITERS' LABORATORIES STANDARDS, WHERE APPLICABLE. WHERE SPECIFICATIONS DESCRIBE, OR PLANS SHOW, MATERIALS OR EQUIPMENT OF HIGHER QUALITY THAN REQUIRED BY CODE AND LOCAL RULING, THE DRAWINGS AND SPECIFICATIONS SHALL GOVERN THE QUALITY OF THE MATERIAL OR EQUIPMENT.
- B. THE CONTRACTOR SHALL SUBMIT PROOF, IF REQUESTED BY THE OWNER THAT THE MATERIALS, APPLIANCES, EQUIPMENT OR DEVICES FURNISHED AND INSTALLED UNDER THIS CONTRACT, MEET THE REQUIREMENTS OF THE UNDERWRITERS' LABORATORIES, INC., AS REGARDS FIRE AND CASUALTY HAZARDS. THE LABEL OF OR LISTING BY THE UNDERWRITERS' LABORATORIES, INC. WILL BE ACCEPTED AS CONFORMING WITH THIS REQUIREMENT. IN LIEU OF THE LABEL OR LISTING, THE CONTRACTOR MAY SUBMIT INDEPENDENT PROOF SATISFACTORY TO THE ARCHITECT THAT THE MATERIALS, APPLIANCES OR DEVICES CONFORM TO THE PUBLISHED STANDARDS, INCLUDING METHODS OF TEST OF THE UNDERWRITERS' LABORATORIES, INC. UNDERWRITERS' LABORATORIES, INC. AND ITS PUBLICATIONS WILL BE REFERRED TO HEREINAFTER BY THE ABBREVIATION UL, WITH OR WITHOUT ADDITIONAL IDENTIFYING SYMBOLS.

6. GUARANTEE

- A. THE PLUMBING CONTRACTOR SHALL GUARANTEE FOR A PERIOD OF ONE YEAR THAT ALL WORK AND EQUIPMENT WILL REMAIN FREE FROM ALL DEFECTS IN WORKMANSHIP AND MATERIALS, AND THAT IT WILL COMPLY WITH ALL THE SPECIFIC REQUIREMENTS OF THE SPECIFICATIONS AND OTHER CONTRACT DOCUMENTS GOVERNING THE WORK.
- B. ALL WORK FOUND BY THE ENGINEER TO BE DEFECTIVE WILL BE REPLACED WITH NEW WORK MEETING ALL THE REQUIREMENTS OF THE CONTRACT. THE PLUMBING CONTRACTOR WILL BEAR ALL COSTS OF SUPPLYING SUCH NEW WORK, AND INSTALLING AND FINISHING SAME, AND WILL ASSUME ALL COSTS FOR REPLACING OTHER WORK DAMAGED BY THE REMOVAL AND REPLACEMENT OF ANY OF THE WORK. THE PLUMBING CONTRACTOR WILL BEAR ALL COSTS FOR FREIGHT, DRAYAGE AND DEMURRAGE, AND ALL LABOR IN CONNECTION THEREWITH.

7. CUTTING, PATCHING, FIRESTOPPING AND PAINTING

- A. THIS CONTRACTOR SHALL BE RESPONSIBLE FOR CUTTING ALL HOLES REQUIRED FOR INSTALLATION OF PLUMBING WORK. HOLES SHALL BE CUT IN A NEAT MANNER SATISFACTORY TO THE ARCHITECT.
- B. CONTRACTOR SHALL EMPLOY AN BUILDING OWNER APPROVED ROOFING CONTRACTOR FOR ALL ROOF PENETRATIONS. ROOF SHALL BE REPAIRED SO AS NOT TO VOID ROOF WARRANTY.
- C. UNLESS NOTED OTHERWISE, ALL HOLES OR DAMAGE CAUSED BY THE REMOVAL OF EXISTING WORK OR THE INSTALLATION OF NEW WORK SHALL BE PROPERLY PATCHED BY THIS CONTRACTOR. HOLES SHALL BE NEATLY PATCHED AND PAINTED WITH SUITABLE MATERIAL TO MATCH EXISTING SURFACES. HOLES THROUGH FLOORS OR FIRE RATING WORK SHALL BE SEALED WITH THE APPROPRIATE INTUMESCENT CAULK, PUTTY, STRIP OR SHEET TYPE FIRE BARRIER PRODUCT.
- D. FIRESTOP SYSTEM (REQUIRED FIRESTOPPING MATERIALS) SHALL BE DETERMINED BY THE WALL OR FLOOR/CEILING ASSEMBLY AND PENETRATION TYPE AND SHALL BE UL LISTED AND TESTED IN ACCORDANCE WITH ASTM E814. FIRE RATING OF THE FIRESTOP SYSTEM SHALL BE EQUIVALENT TO THE ASSEMBLY WHICH IS PENETRATED.

- E. ACCEPTABLE FIRE BARRIER PRODUCTS: HILTI "FS-ONE", NELSON "FLAMESEAL" OR APPROVED EQUAL AS MANUFACTURED BY 3M.

8. EXCAVATING, TRENCHING, AND BACKFILLING:

- A. FURNISH MATERIALS, TOOLS, LABOR AND SUPERVISION NECESSARY TO PROVIDE ALL EXCAVATING, TRENCHING AND BACKFILLING REQUIRED FOR THE PROPER INSTALLATION OF EQUIPMENT AND PIPING.
- B. EXACT ROUTING OF TRENCHING SHALL BE DETERMINED BY THE CONTRACTOR AND APPROVED, IN ADVANCE, BY THE OWNER.
- C. ALL WORK SHALL COMPLY WITH THE REQUIREMENTS OF THE GOVERNING AUTHORITIES.
- D. WHERE TRENCHES ARE EXCAVATED SUCH THAT THE BOTTOM OF THE TRENCH FORMS THE BED FOR THE PIPE, SOLID AND CONTINUOUS LOAD-BEARING SUPPORT SHALL BE PROVIDED BETWEEN JOINTS. BELL HOLES, HUB HOLES AND COUPLED HOLES SHALL BE PROVIDED AT POINTS WHERE THE PIPE IS JOINED. SUCH PIPE SHALL NOT BE SUPPORTED ON BLOCKS TO GRADE.

9. CLEANING AND PAINTING

- A. CLEAN NEW PIPING AFTER WORK IS COMPLETE TO REMOVE PIPE DOPE, LOOSE MILL SCALE AND OTHER EXTRANEOUS MATERIALS.
- B. TOUCH UP AND REPAIR ANY DAMAGED FACTORY FINISHES ON EQUIPMENT AND MATERIALS FURNISHED. OTHER PAINTING WILL BE DONE UNDER THE PAINTING DIVISION OF THE SPECIFICATIONS.

10. COORDINATION AND CONDUCT OF WORK

- A. PLUMBING CONTRACTOR SHALL COORDINATE ALL NEW (GAS, DOMESTIC WATER, SANITARY) UTILITY CONNECTIONS AND METERING REQUIREMENTS WITH LOCAL UTILITY COMPANY.
- B. PLUMBING DRAWINGS ARE DIAGRAMMATIC, INDICATING GENERAL ARRANGEMENT, APPROXIMATE SIZES, GENERAL LOCATIONS OF EQUIPMENT, AND PIPING. VERIFY DIMENSIONS IN FIELD; ADJUST TO MANUFACTURER'S SHOP DRAWINGS. DO NOT SCALE DRAWINGS.
- C. ALL REQUESTS FOR INFORMATION SUPPLEMENTAL TO THE CONSTRUCTION DOCUMENTS SHALL BE SUBMITTED IN WRITING TO THE ARCHITECT FOR DISTRIBUTION TO THE APPROPRIATE PARTY(S).
- D. DRAWINGS AND SPECIFICATIONS ARE TO BE CONSIDERED AS SUPPLEMENTING EACH OTHER. WORK SPECIFIED BUT NOT SHOWN, OR SHOWN BUT NOT SPECIFIED, SHALL BE PERFORMED OR FURNISHED AS THOUGH MENTIONED IN BOTH SPECIFICATIONS AND DRAWINGS.
- E. ARCHITECTURAL AND STRUCTURAL DRAWINGS SUPERSSEDE PLUMBING DRAWINGS. DETERMINE THAT WORK OF THIS DIVISION CAN BE ACCOMMODATED WITHIN SPACES PROVIDED. NOTIFY ARCHITECT OF ANY INTERFERENCES BEFORE STARTING INSTALLATION.

- F. DETERMINE SIZES, LOCATIONS FOR CHASES AND OPENINGS NECESSARY FOR INSTALLATION OF PLUMBING WORK. COOPERATE WITH OTHER TRADES IN SETTING SLEEVES, INSERTS AND HANGERS.
- G. COORDINATE THIS WORK WITH ALL TRADES. ARRANGE OPERATIONS SO AS NOT TO DELAY INSTALLATION OR COMPLETION OF ANY PARTS OF INTERRELATED WORK SO THAT CONSTRUCTION MAY PROCEED ON SCHEDULE.

- H. COOPERATE WITH ALL TRADES IN PREPARING INTERFERENCE DRAWINGS FOR AREAS WHERE THERE IS POSSIBLE CONFLICT BETWEEN TRADES. EXACT LOCATION OF PIPES, AND EQUIPMENT SHALL BE BASED ON FIELD MEASUREMENTS WITH FINAL ARRANGEMENT DETERMINED BY INTRA-TRADE AGREEMENTS SUBJECT TO ARCHITECT'S APPROVAL.

- I. ARCHITECT RESERVES THE RIGHT TO MAKE REASONABLE CHANGES IN INDICATED LOCATIONS WITHOUT EXTRA COST TO THE OWNER.

- J. ALL WORK SHALL BE INSTALLED IN A NEAT AND WORKMANLIKE MANNER BY FIRST-CLASS MECHANICS. THE CONTRACTOR SHALL PROVIDE ADEQUATE AND COMPETENT SUPERVISION OF THE JOB AS REQUIRED.

- K. PIPING AND EQUIPMENT SHALL BE ARRANGED SUBSTANTIALLY AS INDICATED. ANY CHANGE RESULTING IN A SAVINGS IN LABOR OR MATERIAL SHALL BE MADE ONLY IN ACCORDANCE WITH A CONTRACT CHANGE ORDER. DEVIATIONS SHALL BE MADE ONLY WHERE NECESSARY TO AVOID INTERFERENCES AND ONLY AFTER DRAWINGS SHOWING THE PROPOSED DEVIATIONS HAVE BEEN SUBMITTED TO AND APPROVED BY THE ARCHITECT.

- L. COORDINATE ALL SHUTDOWNS OF THE PLUMBING SYSTEM IN ADVANCE WITH THE OWNER.

11. SUBMITTALS

- A. PROVIDE A MINIMUM OF SIX (6) SUBMITTAL DRAWINGS FOR PLUMBING FIXTURES, EQUIPMENT, AND ALL OTHER SPECIFIED COMPONENTS FOR APPROVAL BY THE ARCHITECT AND ENGINEER.
- B. WHERE ONLY ONE MAKE OF EQUIPMENT IS NAMED, IT SHALL BE PROVIDED AS SPECIFIED.

- C. VERBAL REQUESTS OF APPROVALS FOR ANY SUBSTITUTION WILL NOT BE BINDING ON THE ARCHITECT AND OWNER.

- D. THIS CONTRACTOR ASSUMES ALL RESPONSIBILITY FOR ALL COSTS FOR REDESIGN CHANGES NECESSARY BY ALL TRADES TO ACCOMMODATE THE USE OF EQUIPMENT NOT SPECIFIED ON PROJECT DOCUMENTS.

- E. BIDS SHALL BE BASED UPON THE SPECIFIED PRODUCTS OR LISTED ALTERNATIVES. DRAWINGS AND SPECIFICATIONS ARE BASED ON THE PRODUCTS SPECIFIED BY TYPE, MODEL, AND SIZE AND THUS ESTABLISH MINIMUM QUALITIES, WHICH SUBSTITUTES MUST MEET TO QUALIFY FOR REVIEW.

- F. SHOULD THE CONTRACTOR PROPOSE TO FURNISH MATERIALS, EQUIPMENT, AND DEVICES, OTHER THAN THOSE SPECIFIED AND LISTED, THE CONTRACTOR SHALL SUBMIT A WRITTEN REQUEST FOR SUBSTITUTIONS, TO THE ENGINEER, AT LEAST FOURTEEN (14) CALENDAR DAYS PRIOR TO BID OPENING. THE REQUEST SHALL BE AN ALTERNATE TO THE ORIGINAL BID AND SHALL INCLUDE AND BE ACCOMPANIED WITH COMPLETE SPECIFICATIONS CUT SHEET SUBMITTAL AS OUTLINED IN SECTION 11.A OF THIS SPECIFICATION SECTION, COMPLETE WITH DESCRIPTIVE (MANUFACTURER, BRAND NAME, CATALOG NUMBER, ETC.) AND TECHNICAL DATA FOR ALL ITEMS. INDICATE ANY ADDITIONS OR DEDUCTIONS TO THE CONTRACT PRICE WITH THE SUBSTITUTION SUBMITTAL AND ON THE BID FORM. FAILURE TO PERFORM THESE ACTIONS EQUATES TO ACKNOWLEDGEMENT THAT THE PROJECT HAS BEEN BID WITH STRICT ACCORDANCE TO THIS SPECIFICATION AND APPLICABLE DRAWINGS.

- G. ACCEPTANCE OR REJECTION OF THE PROPOSED SUBSTITUTIONS SHALL BE SUBJECT TO APPROVAL OF THE ARCHITECT AND ENGINEER. IF REQUESTED, THE CONTRACTOR SHALL SUBMIT INSPECTION SAMPLES OF BOTH THE SPECIFIED AND THE PROPOSED SUBSTITUTE ITEMS.

- H. IF ANY SUBSTITUTIONS ARE APPROVED, AN ADDENDUM LISTING THE APPROVED ITEM(S) WILL BE ISSUED TO ALL BIDDING CONTRACTORS PRIOR TO THE BID DATE.

- I. IN ALL CASES WHERE SUBSTITUTIONS ARE PERMITTED, THE CONTRACTOR SHALL BEAR ANY EXTRA COST OF EVALUATING THE EQUALITY OF THE MATERIAL AND EQUIPMENT TO BE INSTALLED.

- J. WHERE ONLY ONE MAKE IS NAMED IN THE SPECIFICATIONS OR ON THE DRAWINGS, IT SHALL BE PROVIDED.

- K. VERBAL REQUESTS OR APPROVALS SHALL NOT BE BINDING ON THE ENGINEER OR OWNER.

12. EQUIPMENT AND PIPING IDENTIFICATION

- A. LABEL ALL PIPING SYSTEMS WITH PIPE MARKERS INSTALLED ADJACENT TO VALVES, WHERE PIPES PASS THROUGH WALLS OR FLOORS, NEAR ALL BRANCHES AND CHANGES OF DIRECTION, AT 20 FEET INTERVALS ON STRAIGHT RUNS OF PIPE, AND AT ACCESS DOOR LOCATIONS. ALL PIPE MARKERS SHALL CONFORM TO ANSI A13.1 "SCHEME FOR THE IDENTIFICATION OF PIPING SYSTEMS".
- B. THE CONTRACTOR SHALL FURNISH AND INSTALL A SYSTEM OF NAMEPLATES DESIGNED TO IDENTIFY EACH PIECE OF EQUIPMENT.

- (1) NAMEPLATE LETTER AND NUMBERS SHALL MATCH EQUIPMENT DESIGNATION AS INDICATED ON THE DRAWINGS.
- (2) NAMEPLATES SHALL BE LAMINATED PHENOLIC WITH BLACK SURFACE AND WHITE CORE. USE 1/16" THICK MATERIAL FOR PLATES UP TO 2" BY 4". FOR LARGER SIZES USE 1/8" THICK. LETTERS AND NUMBERS SHALL BE A MINIMUM OF 1/2" HIGH.
- (3) FASTEN NAMEPLATES TO ALL EQUIPMENT BY THE USE OF STAINLESS STEEL SHEET METAL SCREWS.

13. AS-BUILT DRAWINGS

- A. AS WORK PROGRESSES, RECORD ON A SET OF "AS-BUILT" PRINTS ANY DEVIATIONS FROM DESIGN DRAWINGS. DELIVER TO THE OWNER BEFORE SUBMITTING REQUEST FOR FINAL PAYMENT. THE "AS-BUILT" PRINTS SHALL BE AN ACCURATE DEPICTION OF THE PROJECT AS COMPLETED.

14. OPERATING AND MAINTENANCE MANUALS

- A. PROVIDE TO OWNER, AT PROJECT TURNOVER, THREE (3) HARDBOUND COPIES OF OPERATING AND MAINTENANCE MANUALS. THE MANUALS SHALL INCLUDE, BUT NOT BE LIMITED TO, THE FOLLOWING INFORMATION: NEEDED FOR DAY-TO-DAY OPERATION AND MANAGEMENT OF EACH SYSTEM, AS WELL AS EQUIPMENT MAINTENANCE INFORMATION REQUIRED TO SUPPORT THE MAINTENANCE PROGRAM.

15. OPERATING INSTRUCTIONS

- A. PROVIDE TO OWNER AFTER ALL EQUIPMENT IS IN OPERATION AND AT AN AGREEABLE TIME, INSTRUCTIONS FOR THE PURPOSE OF TRAINING OWNER'S PERSONNEL IN ALL PHASES OF OPERATION AND MAINTENANCE OF EQUIPMENT AND SYSTEMS. SCHEDULE TRAINING WITH OWNER, PROVIDE AT LEAST SEVEN DAYS PRIOR NOTICE. PROVIDE THIS TRAINING TO ALL PERSONNEL AND ON ALL SHIFTS.

16. INSULATION

- A. ALL WATER PIPING SHALL BE INSULATED.
- B. PROVIDE ALL INSULATION MATERIALS (INSULATION, JACKETS, FITTING COVERS, ADHESIVES, CEMENTS, MASTICS, SEALERS AND FINISHES) WITH A FLAME-SPREAD INDEX OF 25 OR LESS AND SMOKE DEVELOPED INDEX OF 50 OR LESS, AS TESTED UNDER PROCEDURE ASTM E-84 (NFPA 255).
- C. ALL INSULATION SHALL BE INSTALLED OVER CLEAN, DRY SURFACES. INSULATION MUST BE DRY AND IN GOOD CONDITION. WET OR DAMAGED INSULATION IS NOT ACCEPTABLE. NO INSULATION SHALL BE APPLIED PRIOR TO PRESSURE TEST COMPLETION OF THE RESPECTIVE PIPING SYSTEM.
- D. ALL INSULATION SHALL BE CONTINUOUS (INCLUDING VAPOR BARRIER) THROUGH WALL AND CEILING OPENINGS, SLEEVES, AND PIPE HANGER LOCATIONS.
- E. ALL INSULATION PRODUCTS SHALL BE APPLIED IN ACCORDANCE WITH MANUFACTURER'S WRITTEN RECOMMENDATIONS. THE WORKMANSHIP SHALL BE FIRST CLASS AND ALL JOINTS SHALL BE MADE TIGHT.
- F. INSULATE VALVE BONNETS AND UNIONS ON DOMESTIC WATER PIPING WITH INSULATION MATCHING PIPE INSULATION.

- G. INSULATE ELECTRIC WATER COOLER TRAP AND WASTE PIPING WITHIN CABINET WITH 1/2" THICK ARMAFLEX AP PIPING INSULATION.
- H. REPAIR EXISTING INSULATION WHERE REMOVED FOR NEW CONNECTION. INSULATION SHALL BE THE SAME AS SPECIFIED FOR NEW SERVICE.

- K. ALL INSULATION USED AS PLENUM WRAP COVERING FOR COMBUSTIBLE MATERIALS IN A PLENUM SPACE SHALL BE 3M PLENUM PROTECTION SYSTEM (PP-100-P), ONE LAYER OF 3M FIRE BARRIER DUCT WRAP 5A, IN ACCORDANCE WITH UL910 & UL1887.

- L. PROVIDE CLOSED-CELL ELASTOMERIC INSULATION ON ALL METAL CONDENSATE DRAIN PIPES.

17. MATERIALS

A. PIPE AND FITTINGS

- (1) DOMESTIC WATER SHALL BE COPPER OR CPVC. ALL WATER PIPING SHALL BE INSULATED.
- (2) DOMESTIC WATER BELOW FLOOR SHALL BE TYPE "K" SOFT COPPER.
- (3) NATURAL GAS SHALL BE SCHEDULE 40 BLACK STEEL.
- (4) SANITARY DRAIN AND VENT SHALL BE CAST IRON OR PVC. CAST IRON PIPING SHALL BE INSTALLED IN FIRST FLOOR CEILING PLENUM RETURNS.
- (5) STORM PIPING SHALL BE CAST IRON OR PVC. CAST IRON PIPING SHALL BE INSTALLED IN FIRST FLOOR CEILING AND IN PLENUM RETURNS.
- (6) CONDENSATE PIPING SHALL BE PVC. COPPER PIPING SHALL BE INSTALLED IN FIRST FLOOR CEILING AND IN PLENUM RETURNS.
- (7) FITTINGS FOR BLACK STEEL PIPE 2" AND SMALLER SHALL BE 150 PSIG SWP MALLEABLE IRON SCREWED FITTINGS. FOR 2-1/2" AND LARGER, FITTINGS SHALL BE FACTORY FORMED WELDING FITTINGS.

B. DOMESTIC WATER VALVES

- (1) DOMESTIC WATER SHUT-OFF VALVES SHALL BE BRONZE BODY, TWO PIECE, FULL PORT, LEVER HANDLE BALL VALVES WITH TEFLON SEATS, CHROME PLATED BRASS BALL, BRASS STEM AND SOLDER ENDS. 600 PSI WOG. ACCEPTABLE MANUFACTURERS: MILWAUKEE, HAMMOND, APOLLO
- (2) HORIZONTAL CHECK VALVES SHALL BE BRONZE BODY, SWING TYPE DESIGN, BRONZE DISC, STAINLESS STEEL LEVER WITH SOLDER ENDS. 200 PSI WOG. ACCEPTABLE MANUFACTURERS: MILWAUKEE, HAMMOND, APOLLO
- (3) MANUAL BALANCING VALVES SHALL BE BRONZE BODY, COMBINATION VENTURI AND BALL VALVE WITH TWO PRESSURE/TEMPERATURE TEST PORTS, MEMORY STOP, INLET UNION CONNECTION AND THREADED ENDS, 400 PSI AT 250°F. ACCEPTABLE MANUFACTURERS: FLOW DESIGN INC. "FLOWSET".

C. NATURAL GAS VALVES

- (1) 2" AND SMALLER - WRENCH-OPERATED, RECTANGULAR PORT, CYLINDRICAL LUBRICATED PLUG VALVES WITH CAST IRON BODY, PLUG AND BASEPLATE, TFE GASKET, STAINLESS STEEL BASEPLATE SPRING, STEEL SEALANT SCREW AND THREADED ENDS. 200 PSI WOG. U.L. LISTED.
- (2) 2-1/2" AND LARGER - WRENCH-OPERATED, RECTANGULAR PORT, CYLINDRICAL LUBRICATED PLUG VALVES WITH CAST IRON BODY, PLUG AND BASEPLATE, TFE GASKET, STAINLESS STEEL BASEPLATE SPRING, STEEL SEALANT SCREW AND FLANGED ENDS. 200 PSI WOG. U.L. LISTED.
- (3) PROVIDE ALL VALVES WITH A REMOVABLE WRENCH TO MATCH OPERATOR SQUARE HEAD SIZE. WRENCHES SHALL BE LOCKED IN PLACE WITH A SET SCREW.

18. PIPING INSTALLATION

- A. PROVIDE MACHINE CUT STEEL PIPE SLEEVE 1" LARGER THAN OUTSIDE DIAMETER OF PIPE. WHERE FLOORS ARE CORE DRILLED, STEEL SLEEVES ARE NOT REQUIRED. SEAL OPENINGS TO MAINTAIN THE INTEGRITY OF THE FIRE RATING.
- B. PROVIDE ALL INSERTS, FASTENERS AND SUPPORTS TO PROPERLY SUPPORT AND RETAIN PIPING, TO CONTROL EXPANSION, CONTRACTION, ANCHORAGE, DRAINAGE, AND PREVENT SWAY AND VIBRATION. PIPING SHALL BE SO SUPPORTED AS NOT TO PLACE A STRAIN ON VALVES, FIXTURES OR EQUIPMENT.
- C. THE DRAWINGS INDICATE THE GENERAL LOCATION AND ARRANGEMENT OF THE PIPING SYSTEMS. SO FAR AS PRACTICAL, INSTALL PIPING AS INDICATED MAKING CONNECTIONS TO ALL EQUIPMENT AND FIXTURES. INSTALL PIPING AS DIRECT AS POSSIBLE AVOIDING UNNECESSARY OFFSETS. HOWEVER, IF OFFSETS ARE REQUIRED IN ORDER TO OBTAIN MAXIMUM HEADROOM OR TO AVOID CONFLICT WITH OTHER WORK, THEY SHALL BE MADE AS REQUIRED OR AS REQUESTED BY THE ARCHITECT WITHOUT ADDITIONAL COST TO THE OWNER. THE ARCHITECT RESERVES THE RIGHT TO MAKE MINOR CHANGES IN THE LOCATION OF PIPING AND EQUIPMENT DURING THE ROUGHING-IN, WITHOUT ADDITIONAL COST TO THE OWNER. ALL CHANGES PROPOSED BY OTHERS SHALL BE APPROVED BY THE ARCHITECT.
- D. INSTALL PIPING FREE OF SAGS OR BENDS
- E. ALL PIPING SYSTEMS MUST BE INSTALLED SO THEY CAN BE COMPLETELY DRAINED. PROVIDE TEE FITTING, BALL VALVE WITH HOSE THRU FITTING AND CAP AT ALL LOW POINTS, TRAPPED SECTIONS, BASES OF RISERS, AND ON EQUIPMENT. SIDE OF SHUT OFF VALVES TO PERMIT DRAINING. PROVIDE BALL VALVES AT ALL HIGH POINTS TO ALLOW VENTING. ALL DRAIN VALVES AND VENTS SHALL BE ACCESSIBLE
- F. TERMINATE PLUMBING VENT PIPES AT LEAST 12 INCHES ABOVE ROOF.
- G. BUILDING DRAINS SHALL BE PITCHED A MINIMUM SLOPE OF 1/4 INCH PER FOOT FOR PIPES UP TO 2-1/2 INCH AND 1/8 INCH PER FOOT FOR PIPES GREATER THAN 2-1/2 INCHES.
- H. PROVIDE WATER HAMMER ARRESTERS WHERE QUICK-CLOSING VALVES ARE UTILIZED, AND INSTALL IN ACCORDANCE WITH THE MANUFACTURER'S SPECIFICATIONS.

- J. PROVIDE CHECK VALVES WHERE BACKFLOW PROTECTION IS REQUIRED, AND INSTALL IN ACCORDANCE WITH THE MANUFACTURER'S SPECIFICATIONS. PROVIDE AT FIXTURES SUCH AS, BUT NOT LIMITED TO, DISHWASHERS, COFFEE MAKERS, ICE MACHINES, BEVERAGE DISPENSERS, REFRIGERATORS. PROVIDE WATTS 007 OR EQUIVALENT.

- K. PROVIDE DIELECTRIC UNIONS AT COUPLING OF DISSIMILAR METALS.

- L. PRO-PRESSED CONNECTIONS ARE PERMITTED.

19. DISINFECTION

- A. CHLORINATE ALL DOMESTIC WATER SYSTEMS AS FOLLOWS. FIRST FLUSH SYSTEM WITH CLEAN POTABLE WATER UNTIL DIRTY WATER DOES NOT APPEAR AT OUTLETS. THEN FILL WITH A WATER/CHLORINE SOLUTION (50PPM CHLORINE) AND ALLOW TO STAND FOR 24 HOURS. FOLLOWING STANDING TIME, FLUSH THE SYSTEM WITH CLEAN POTABLE WATER UNTIL CHLORINE IS PURGED FROM THE SYSTEM. REPEAT CHLORINATION, IF NECESSARY, UNTIL NO BACTERIOLOGICAL CONTAMINATION IS PRESENT IN THE SYSTEM. PROCEDURE SHALL CONFORM TO AWWA C651 AND BE ACCEPTED BY THE LOCAL HEALTH DEPARTMENT.

20. PLUMBING FIXTURES AND EQUIPMENT

A. GENERAL

- (1) PROVIDE FIXTURES OF TYPE, STYLE AND MATERIAL AS SCHEDULED ON THE DRAWINGS. INCLUDE ALL TRIM, CARRIERS, SEATS, ETC. AS INDICATED OR RECOMMENDED BY MANUFACTURER AS REQUIRED FOR A COMPLETE INSTALLATION.
- (2) PROVIDE VACUUM BREAKERS AS PART OF THE FIXTURE OR EQUIPMENT TRIM WHEREVER THERE IS A POSSIBILITY OF BACK SIPHONING.
- (3) PROVIDE DOUBLE CHECK VALVES FOR PLUMBING FIXTURE OR SPECIAL EQUIPMENT WHERE BACKFLOW PROTECTION IS REQUIRED, AND INSTALL IN ACCORDANCE WITH THE MANUFACTURER'S SPECIFICATIONS, USE WATTS SERIES 7 BRONZE DUAL CHECK VALVE.
- (4) PROVIDE FIXTURES CONSTRUCTED OF VITREOUS CHINA WITH ALL VISIBLE SURFACES GLAZED. FURNISH EENAMELED CAST IRON FIXTURES CONSTRUCTED WITH NON-STAINING, ACID RESISTANT, PORCELAIN EENAMELED COAT THOROUGHLY FUSED ON THE SURFACES. FURNISH STAINLESS STEEL SINKS WITH SATIN FINISH, UNLESS NOTED OTHERWISE.
- (5) PROVIDE ALL STOPS, SUPPLIES, TRAPS AND ESCUTCHEONS NECESSARY FOR A COMPLETE INSTALLATION. ALL COMPONENTS SHALL BE CHROME PLATED BRASS.
- (6) STOPS SHALL BE STRAIGHT OR ANGLE TYPE AS REQUIRED BY THE INSTALLATION, WITH LOOSE KEY, METAL STEM AND WASHER CUP WITH SET SCREW WASHER RETAINER.
- (7) SUPPLIES SHALL BE FLEXIBLE CHROME PLATED COPPER.
- (8) TRAPS SHALL BE 17 GAUGE CHROME PLATED BRASS WITH CLEAN-OUT PLUG. FURNISH WITH SLIP NUTS, WALL BEND AND ESCUTCHEON.
- (9) PROVIDE CARRIERS AND SUPPORTS AS REQUIRED FOR PROPER FIXTURE INSTALLATION. TYPE SHALL PERMIT FIELD ADJUSTMENT TO FIT VARIATIONS IN CONSTRUCTION. UNLESS NOTED OTHERWISE, SUPPORT ALL WALL MOUNTED PLUMBING FIXTURES ON CONCEALED CHAIR CARRIERS WITH FOOT SUPPORT.
- (10) PROVIDE FAUCET AERATORS AND OUTLETS OF TYPES APPROVED BY THE LOCAL HEALTH DEPARTMENT AND LOCAL PLUMBING CODE, REFER TO IPC TABLE 604.4.
- (11) INSULATE ALL EXPOSED WATER SUPPLIES AND TRAPS WHERE FIXTURES ARE INDICATED TO COMPLY WITH THE REQUIREMENTS OF THE AMERICANS WITH DISABILITIES ACT. INSULATION KITS SHALL BE 3/16" THICK MOLDED CLOSED CELL VINYL CONSTRUCTION WITH PVC SATIN WHITE COVER.
- (12) GUESTROOM BATHROOMS SHALL HAVE PVC DRAINS AND THERMOSTATIC MIXING VALVES FOR SHOWERS.
- (13) PUBLIC RESTROOMS SHALL HAVE FLOOR DRAINS, SHOCK ABSORBERS, FLUSH VALVES, TOUCHLESS FAUCETS, & UNDERMOUNT LAV.
- (14) VENDING AREAS SHALL HAVE FLOOR DRAINS, INSULATED DRAIN TRAPS, & FILTERED WATER.

EFFICIENT USE OF WATER IS A STATED GOAL OF THE ATWELL BRAND

FIXTURES TO MEET "WATER SENSE" REQUIREMENTS AS INDICATED BY BRAND STANDARDS

WHERE PERMITTED BY CODES, PVC SANITARY AND RAIN LEADERS ARE PERMITTED

WHERE PERMITTED BY CODES, PEX-A MAY BE USED FOR THE WATER SUPPLY DISTRIBUTION SYSTEM (PEX-B AND PEX-C ARE PROHIBITED).

COPPER MAY ALSO BE USED FOR THE WATER SUPPLY DISTRIBUTION SYSTEM

PVC AND CPVC ARE PROHIBITED FOR USE IN THE WATER SUPPLY DISTRIBUTION SYSTEM - ABSOLUTELY NO EXCEPTIONS

TWO EQUALLY SIZED HOT WATER HEATERS AND TANKS MUST BE USED TO PROVIDE REDUNDANCY FOR THE HOTEL'S "HOT WATER" SUPPLY IN THE EVENT ONE HOT WATER HEATER OR TANK IS "OFF-LINE" DUE TO AN OUTAGE

- INDIVIDUAL HEATERS AND TANKS SHALL BE SIZED FOR 100% OF HOTEL'S TOTAL GUESTROOM HOT WATER DEMAND AT PEAK HOURS
- PROTOTYPE BASIS OF DESIGN: (2) 130 GALLON WATER HEATERS WITH A 1041 GPH RECOVERY DEMAND AT 100 DEGREES (DESIGN ARCHITECT/ENGINEER TO CONFORM TO LOCAL CODES/REGS.)

A HOT WATER RECIRCULATION SYSTEM SERVING ALL GUESTROOMS IS REQUIRED. STORM PIPING FROM ROOF SHALL BE INSULATED WITH JACKETED PIPE INSULATION FROM THE POINT THE ROOF IS PENETRATED UP TO THE POINT

WHERE IT PENETRATES THE FLOOR OF THE UPPER FLOOR. BEYOND THAT POINT, ONLY HORIZONTAL RUNS OF STORM LINES SHALL BE INSULATED UNLESS REQUIRED BY LOCAL REQUIREMENTS OR PRACTICES.

MAIN ROOF OVERFLOW DRAINS ARE PLUMBED TO A THROUGH WALL OVERFLOW SUPPORT. ENTIRE LENGTH OF OVERFLOW PIPE SHALL BE INSULATED WITH JACKETED PIPE INSULATION.

CONDENSATION LINES SERVING THE PTAC UNITS SHALL BE EITHER "USED" OR "LOOSED" PIPE THE CONDENSATE FROM THE PTAC UNITS TO EITHER:

- DIRECTLY INTO THE LANDSCAPE BEDS ("USED" - ALTHOUGH NOT THE PREFERRED OPTIONS DUE TO TECHNICAL AND OPERATIONAL ISSUES)
- DIRECTLY INTO A HOLDING TANK WHICH IS CONNECTED TO THE LANDSCAPE IRRIGATION SYSTEM TO REDUCE THE DEMAND ON CITY WATER FOR THE LANDSCAPE IRRIGATION SYSTEM ("USED")
- THE STORM SYSTEM (LOST - "LOOSED")
- SWAY BRACING 4" AND GREATER SHALL HAVE RIGID BRACING, ANGLE 45° OR GREATER

1 PLUMBING DESIGN NOTES

P1.01 SCALE: NONE

FIRE PROTECTION SPRINKLER SYSTEM

A. SCOPE

1. FURNISH ALL LABOR, MATERIALS AND EQUIPMENT AS REQUIRED TO INSTALL A COMPLETE FIRE PROTECTION SYSTEM FOR PROJECT.
2. SPRINKLER WORK FOR PROJECT ESSENTIALLY CONSISTS OF THE FOLLOWING:
- a. CONTRACTOR SHALL BE RESPONSIBLE FOR TAPPING AND INSTALLATION OF NEW WATER LINE AND CITY APPROVED BACKFLOW PREVENTER INTO BUILDING FROM STREET. CONTRACTOR SHALL BE RESPONSIBLE FOR THE COMPLETE INSTALLATION OF A NEW FIRE PROTECTION SPRINKLER SYSTEM IN ACCORDANCE WITH NFPA REQUIREMENTS. PROVIDE ALL MATERIALS AND LABOR REQUIRED FOR A COMPLETE INSTALLATION. SYSTEM SHALL BE DESIGNED UNDER THE SUPERVISION OF A LICENSED PROFESSIONAL ENGINEER, AND CONTRACTOR SHALL PREPARE ALL REQUIRED SIGNED/SEALED DRAWINGS, CALCULATIONS, AND SHALL OBTAIN APPROVAL OF ALL STATE, LOCAL, AND INSURANCE UNDERWRITING AUTHORITIES. THE SPRINKLER SYSTEM SHALL BE TESTED UNDER PRESSURE BY CONTRACTOR, AND INSPECTED AND APPROVED BY LOCAL FIRE MARSHAL, PRIOR TO ACCEPTANCE BY OWNER.
- b. FIRE PROTECTION SYSTEM AND FLOW AND TAMPER VALVES.
- c. PREPARE SUBMITTAL DRAWINGS AND HYDRAULIC CALCULATIONS IN ACCORDANCE WITH OWNER'S INSURANCE COMPANY, BUILDING DEPARTMENT, AND LOCAL FIRE AUTHORITY'S REQUIREMENTS AND SUBMIT FOR APPROVAL.
- d. FLUSH AND CONDUIT PRESSURE TEST OF COMPLETED SYSTEM IN ACCORDANCE WITH NFPA AND AUTHORITIES HAVING JURISDICTION.
- e. OTHER ITEMS INDICATED ON DRAWINGS OR REQUIRED FOR COMPLETE INSTALLATION.

B. DESIGN BASIS

1. DESIGN BASIS FOR SYSTEM SHALL BE PER ALL APPLICABLE NFPA STANDARDS, INCLUDING BUT NOT LIMITED TO, BULLETINS 13 AND 30, BUILDING CODE, INSURANCE UNDERWRITER, AND FIRE MARSHAL REQUIREMENTS. SYSTEM SHALL BE A HYDRAULICALLY DESIGNED SYSTEM.

C. DRAWINGS AND CALCULATIONS

1. CONTRACTOR SHALL PREPARE SUBMITTAL DRAWING AND HYDRAULIC CALCULATIONS FOR SPACE IN ACCORDANCE WITH OWNER'S INSURANCE COMPANY AND BUILDING DEPARTMENT REQUIREMENTS.
2. CONTRACTOR SHALL OBTAIN FLOW TEST DATA ON CITY WATER MAIN AND SUBMIT DATA WITH CALCULATIONS. PERFORM FLOW TEST IF ACCURATE RECENT DATA IS NOT AVAILABLE.
3. CONTRACTOR AND DESIGNER SHALL BE STATE CERTIFIED.
4. CONTRACTOR SHALL INSTALL ALL SPRINKLER PIPING AS HIGH AS POSSIBLE, TIGHT TO UNDERSIDE OF STRUCTURE, AND THROUGH JOISTS OR TRUSSES WHERE POSSIBLE WITH DRAINAGE OF OPERATOR'S DRAIN BEAMS. SPRINKLER CONTRACTOR SHALL COORDINATE SPRINKLER SYSTEM WITH DUCTWORK AND LIGHTS. ALL COSTS ASSOCIATED WITH RISING SPRINKLER PIPING WHERE THE ARCHITECTURAL DESIGN CANNOT BE ACCOMPLISHED SHALL BE THE RESPONSIBILITY OF THE SPRINKLER CONTRACTOR.
- D. PIPING
1. ALL PIPING SHALL BE INSTALLED IN ACCORDANCE WITH NFPA REQUIREMENTS AND FM APPROVED.
2. FIRE PROTECTION PIPING SHALL BE AS FOLLOWS:
- a. INSIDE BUILDING - PIPE AND TUBING SHALL BE STEEL OR COPPER IN ACCORDANCE WITH THE LATEST ACCEPTED EDITION OF NFPA-13.
- b. PIPING SHALL MATCH EXISTING BUILDING STANDARDS.
- c. CONTRACTOR SHALL ARRANGE FOR SHUTDOWN OF EXISTING SYSTEM WITH LANDLORD, OWNER AND INSURANCE UNDERWRITER.
- d. FLUSH ALL PIPING UPON COMPLETION OF PROJECT AND TEST PER NFPA 13.
- e. NO WET SPRINKLER PIPING SHALL BE INSTALLED AT LOCATIONS SUBJECT TO FREEZING. PROVIDE GLYCOL LOOP OR DRY SYSTEM FOR AREAS SUBJECT TO FREEZING.
- f. ALL PLASTIC PIPING WHERE ALLOWABLE BY CODE.

E. SPRINKLER HEADS

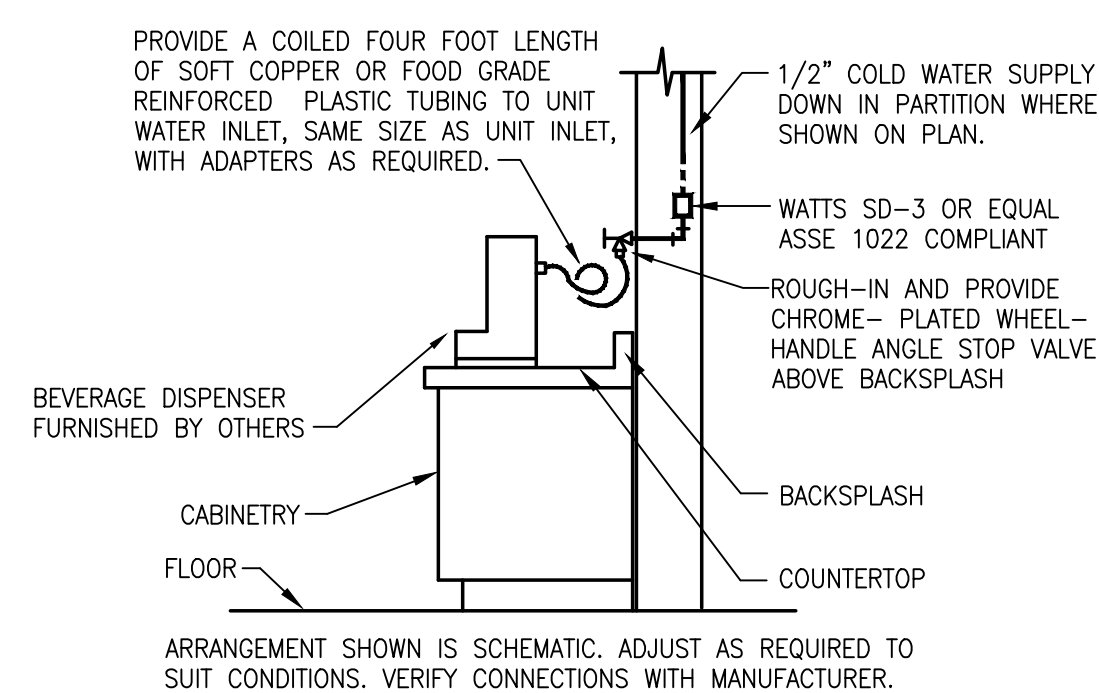
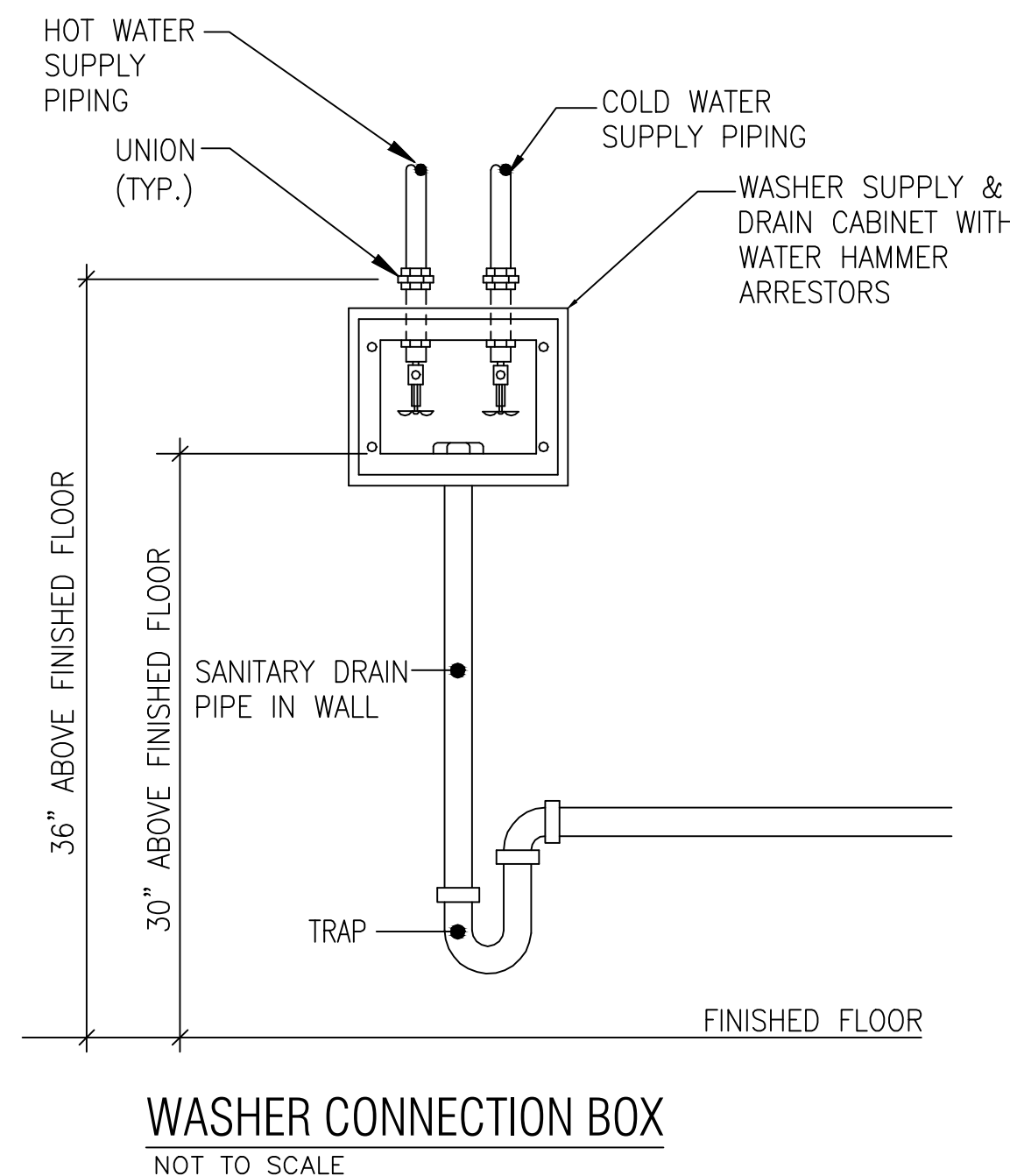
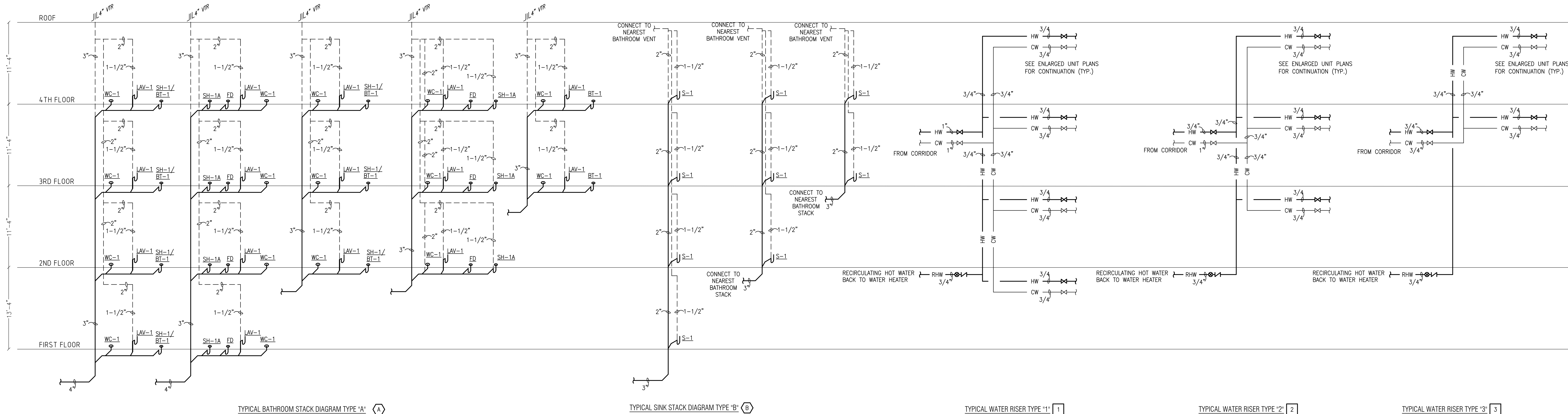
1. SPRINKLER HEADS SHALL BE 1/2" ORIFICE, K-5.6, 165°F, U.L. LISTED, AND SHALL MATCH EXISTING BUILDING STANDARDS.
2. SPRINKLER HEADS SHALL BE AS FOLLOWS:
- a. AREAS WITH EXPOSED STRUCTURE
1. UPRIGHT (ROUGH BRASS SPRINKLER HEAD)
- b. AREAS WITH CEILING
1. PENDANT - SURFACE MOUNTED SPRINKLER HEAD WITH MATCHING TWO (2) PIECE, FLUSH ESCUTCHEON.
2. SEMI-RECESSED SPRINKLER HEAD - SPRINKLER HEAD WITH RECESSED OFF-WHITE, ADJUSTABLE, ESCUTCHEON.
3. SPRINKLER HEADS SHALL BE CHROME OR WHITE FINISH. CONFIRM REQUIREMENTS WITH ARCHITECT.
- c. GUEST ROOMS AND CORRIDORS TO HAVE CONCEALED HEADS.
3. INSTALL HIGHER TEMPERATURE SPRINKLER HEADS WHERE REQUIRED BY CODE OR APPLICATION AND QUICK RESPONSE HEADS IN LIGHT HAZARD OCCUPANCIES.
4. SUBMIT SAMPLES OF SPRINKLER HEADS TO ARCHITECT PRIOR TO FABRICATION OF ANY PIPING.
5. SPRINKLER HEADS SHALL BE CENTERED IN THE CEILING GRID IN BOTH DIRECTIONS.
6. COLOR TO MATCH CEILING AND IN-METAL CEILINGS & WOOD SOFFITS. SELECTION BY ARCHITECT.

F. VALVES

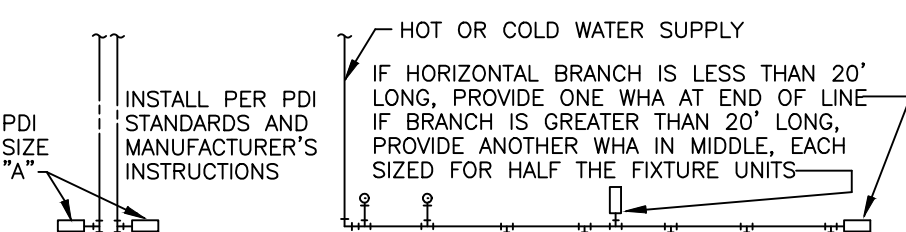
1. INSTALL ALL VALVES REQUIRED BY NFPA WHICH ARE U.L. LISTED AND FM APPROVED.
2. ALL SHUT-OFF VALVES SHALL BE FITTED WITH TAMPER SWITCHES BY FIRE PROTECTION CONTRACTOR AND WIRED BY ELECTRICAL CONTRACTOR.

PLUMBING LEGEND

SAN ———	SANITARY WASTE
— SAN ———	SANITARY SEWER (UNDERFLOOR)
— ST ———	PRIMARY STORM SEWER/CONDUCTOR
— SST ———	SECONDARY STORM SEWER/CONDUCTOR
— V ———	VENT PIPING
— CW ———	COLD WATER
— HW ———	HOT WATER
— G ———	GAS
——— ———	SHUT-OFF VALVE
——— ———	CHECK VALVE
——— ———	BALANCING VALVE
——— ———	RELIEF VALVE
——— ———	UNION
——— ———	SHUT-OFF VALVE IN RISER
——— ———	THERMOMETER
——— ———	FLEXIBLE PUMP CONNECTOR
——— ———	CAP ON END OF PIPE
HB	HOSE BIBB
FPHB	FROSTPROOF HOSE BIBB
FD	FLOOR DRAIN
CO ———	CLEANOUT
CEIL/CLG	CEILING
VTR	VENT THRU ROOF
WC	WATER CLOSET
LAV	LAVATORY
UR	URINAL
SS	SERVICE SINK
BT	BATHTUB
INV	INVERT
INL	INLET
EL	ELEVATION
GC	GENERAL CONTRACTOR
PC	PLUMBING CONTRACTOR
MC	MECHANICAL CONTRACTOR
EC	ELECTRICAL CONTRACTOR
AFF	ABOVE FINISHED FLOOR
——— ———	REDUCED PRESSURE BACKFLOW PREVENTER



THE WATER SUPPLY CONNECTION TO COFFEE MACHINES AND NONCARBONATED BEVERAGE DISPENSERS SHALL BE PROTECTED AGAINST BACKFLOW BY A BACKFLOW PREVENTER CONFORMING TO ASSE 1022 OR BY AN AIR GAP.



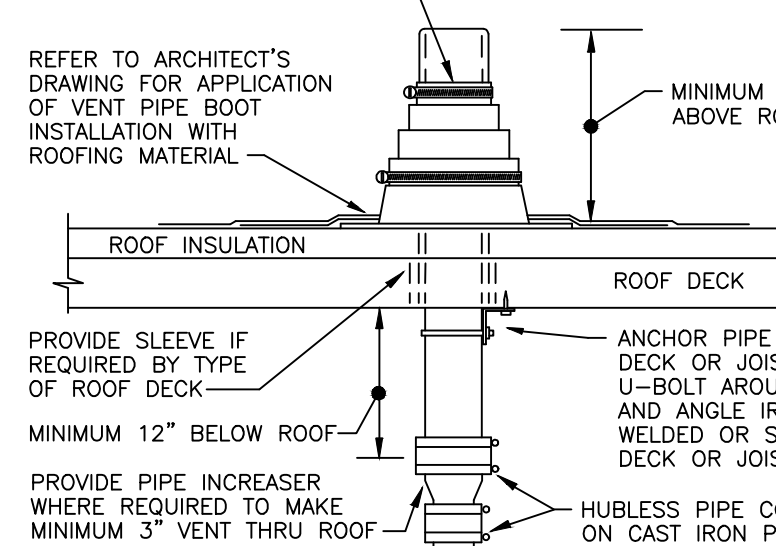
SINGLE FIXTURE			MULTIPLE FIXTURES		
PDI SIZE	PIPE SIZE	FIXTURE UNIT LOAD	FIXTURE	COLD	HOT
A	1/2"	1-11	VALVE WATER CLOSET	10	---
B	3/4"	12-32	TANK WATER CLOSET	5	---
C	1"	33-60	URINAL	5	---
D	1-1/4"	61-113	LAVATORY/SINK	1.5	1.5
E	1-1/2"	114-154	JANITOR'S SINK	3	3
F	2"	154-330	SHOWER/BATHTUB	2	2

P.C. TO PROVIDE WATER HAMMER ARRESTERS BY SIOUX CHIEF, PRECISION PLUMBING PRODUCTS, WATTS OR APPROVED EQUIVALENT WITH PISTON AND O-RING CONSTRUCTION, HAVING PDI #WH-201, ASSE #1010 AND ANSI #A12.26.1M CERTIFICATION. INSTALL IN HORIZONTAL OR VERTICAL POSITION, BUT NEVER UPSIDE DOWN. INSTALL IN LINE WITH WATER FLOW DIRECTION IF POSSIBLE. SIZE THE UNITS AS SHOWN ON THE DRAWINGS AND/OR PER THE TABLES SHOWN ABOVE.

WATER HAMMER ARRESTORS

NOT TO SCALE

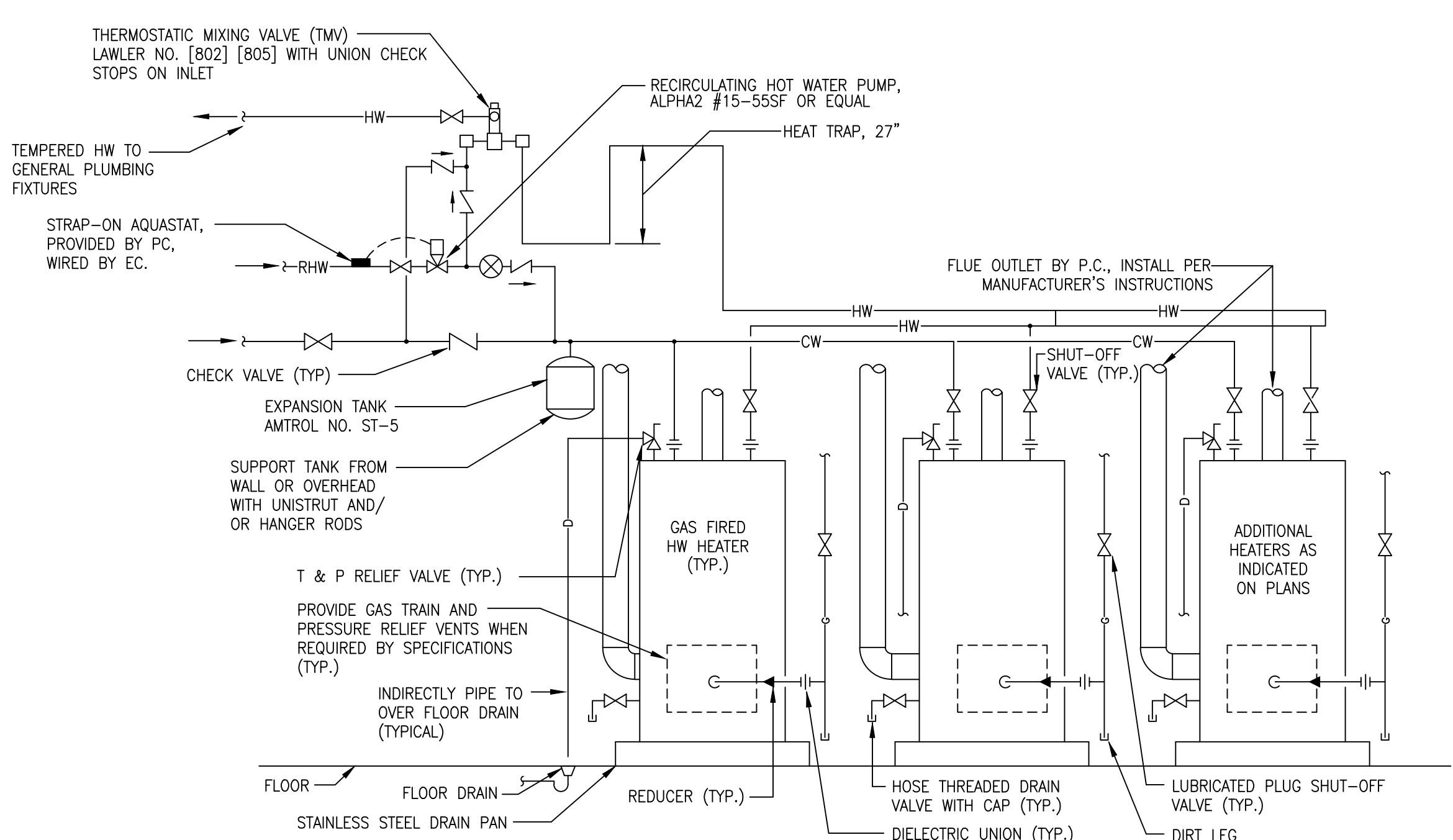
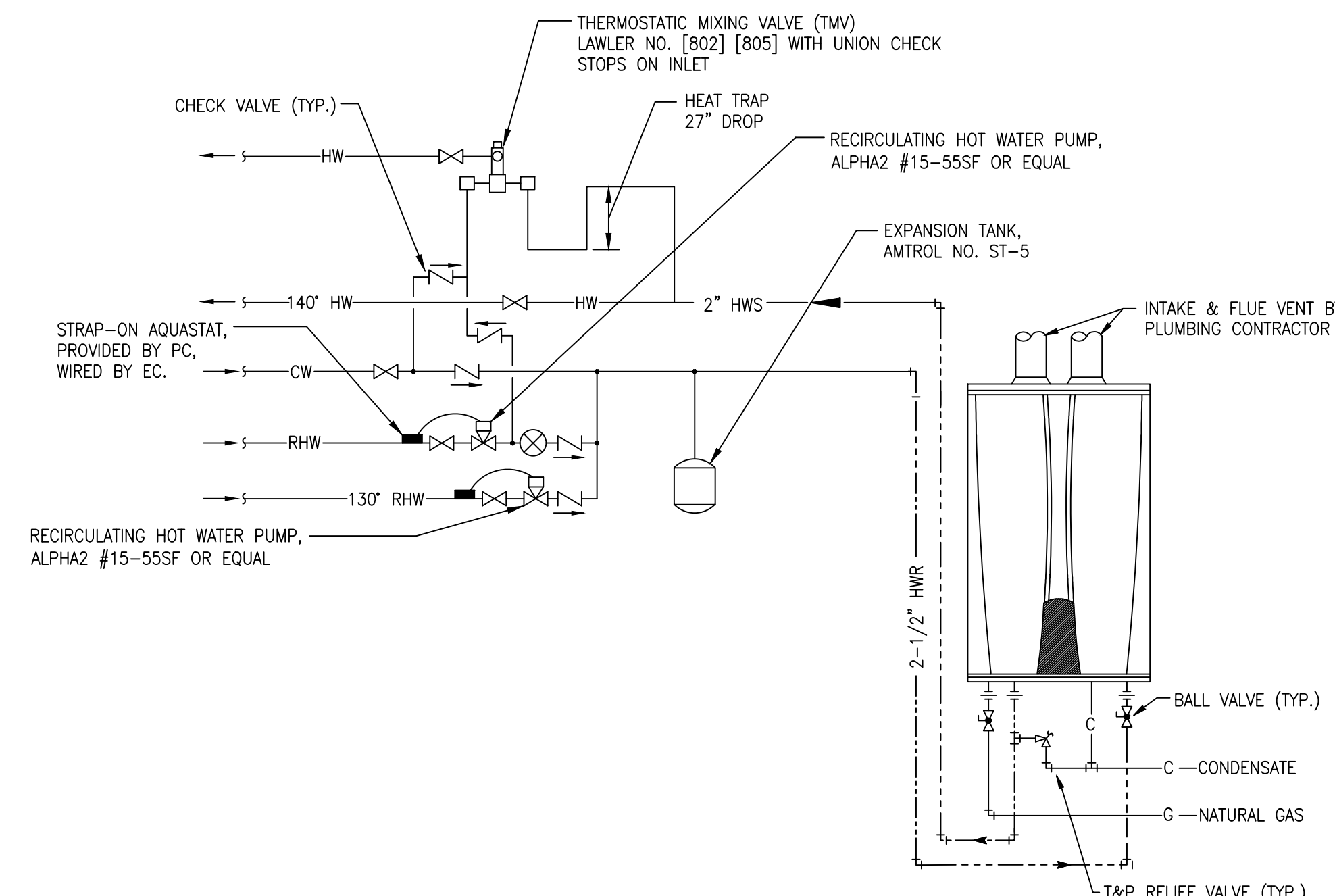
PROVIDE ONE PIECE SPUN ALUMINUM BASE WITH GRADUATED STEPPED PVC BOOT, AND ADJUSTABLE STAINLESS STEEL CLAMPS. SET BASE IN BED OF MASTIC.



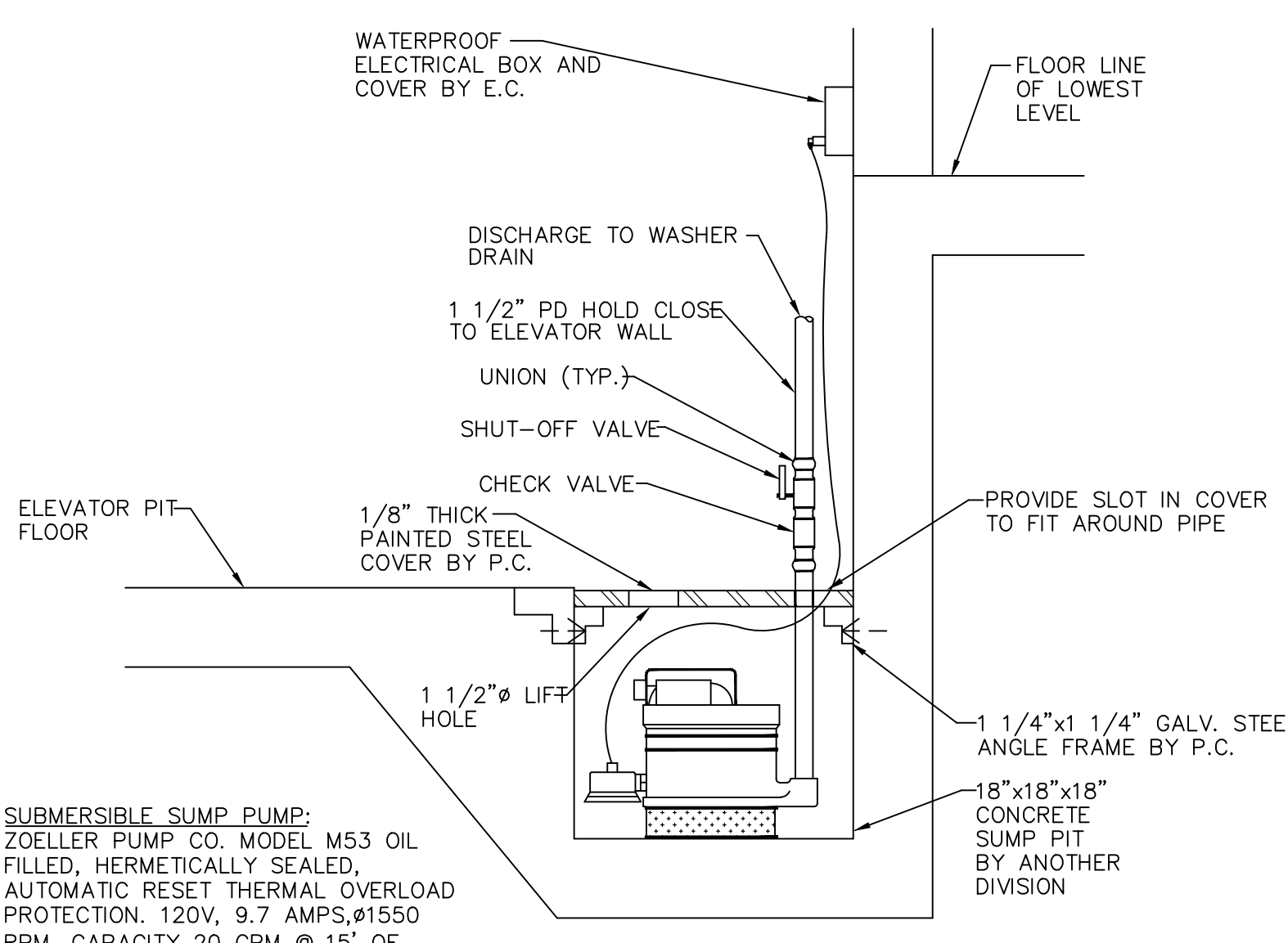
REFER TO PLANS FOR VTR PIPE SIZES AND LOCATIONS. LOCATE VTR MINIMUM TEN FEET HORIZONTAL OR THREE FEET VERTICAL ABOVE ANY BUILDING OPENING OR FRESH AIR INTAKE, AND ONE FOOT FROM ANY VERTICAL SURFACE. PROVIDE 1" FIBERGLASS INSULATION WITH ALL SERVICE JACKET ON VENT PIPE INSIDE BUILDING WITHIN SIX FEET OF VENT THRU ROOF LOCATION. VERIFY FLASHING AND INTERFLASHING WITH ROOFING CONTRACTOR.

VENT THRU ROOF DETAIL

NO SCALE



NOTES:
1. REFER TO PLANS FOR PIPE SIZES
2. PIPE HOT & COLD WATER MANIFOLD IN REVERSE FLOW CONFIGURATION.



ELEVATOR SUMP PUMP NOTES

1. THE PUMP IS TO DISCHARGE THE FLUID OUT OF THE HOISTWAY. IT MUST DISCHARGE INTO A SANITARY SEWER.
2. OTHER BUILDING RELATED OR DRAIN TILES CANNOT TIE INTO SUMP PUMP SYSTEM.
3. PITS SHALL BE COVERED AND LEVEL WITH THE FLOOR.
4. A CHECK VALVE MUST BE INSTALLED IN THE DISCHARGE LINE.
5. THE DISCHARGE LINE SHALL RISE IN THE CORNER OF THE SHAFT, TIGHT TO THE WALL.
6. ELECTRICAL DISCONNECTS MUST BE LOCKABLE.
7. ONLY PIPING THAT PERTAINS TO THE ELEVATOR MAY BE INSTALLED IN THE SHAFT OR MACHINE ROOM.
8. PROVIDE AN APPROVED OIL ALARM SYSTEM WHEN A HYDRAULIC ELEVATOR IS INSTALLED.



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ATWELL SUITES
AN IHG HOTEL
ERLEN DR. & MINDEN DR. FISHERS, INDIANA 46037
HAMILTON COUNTY
PLUMBING DETAILS AND RISERS

ISSUE / REVISION DATE:	
05/04/2022	OWNER REVIEW
06/23/2022	OWNER REVIEW
08/04/2022	PRELIMINARY REVIEW
01/13/2023	FRANCHISE REVIEW
04/21/2023	FRANCHISE REVIEW
05/17/2023	SAXONY DESIGN REVIEW 1
09/19/2023	H&S FINAL REVIEW
11/17/2023	SAXONY DESIGN REVIEW 2
01/23/2024	SITE LIGHTING REVISIONS
01/26/2024	FOR CONSTRUCTION

SMR Project No. **AWSFIN**

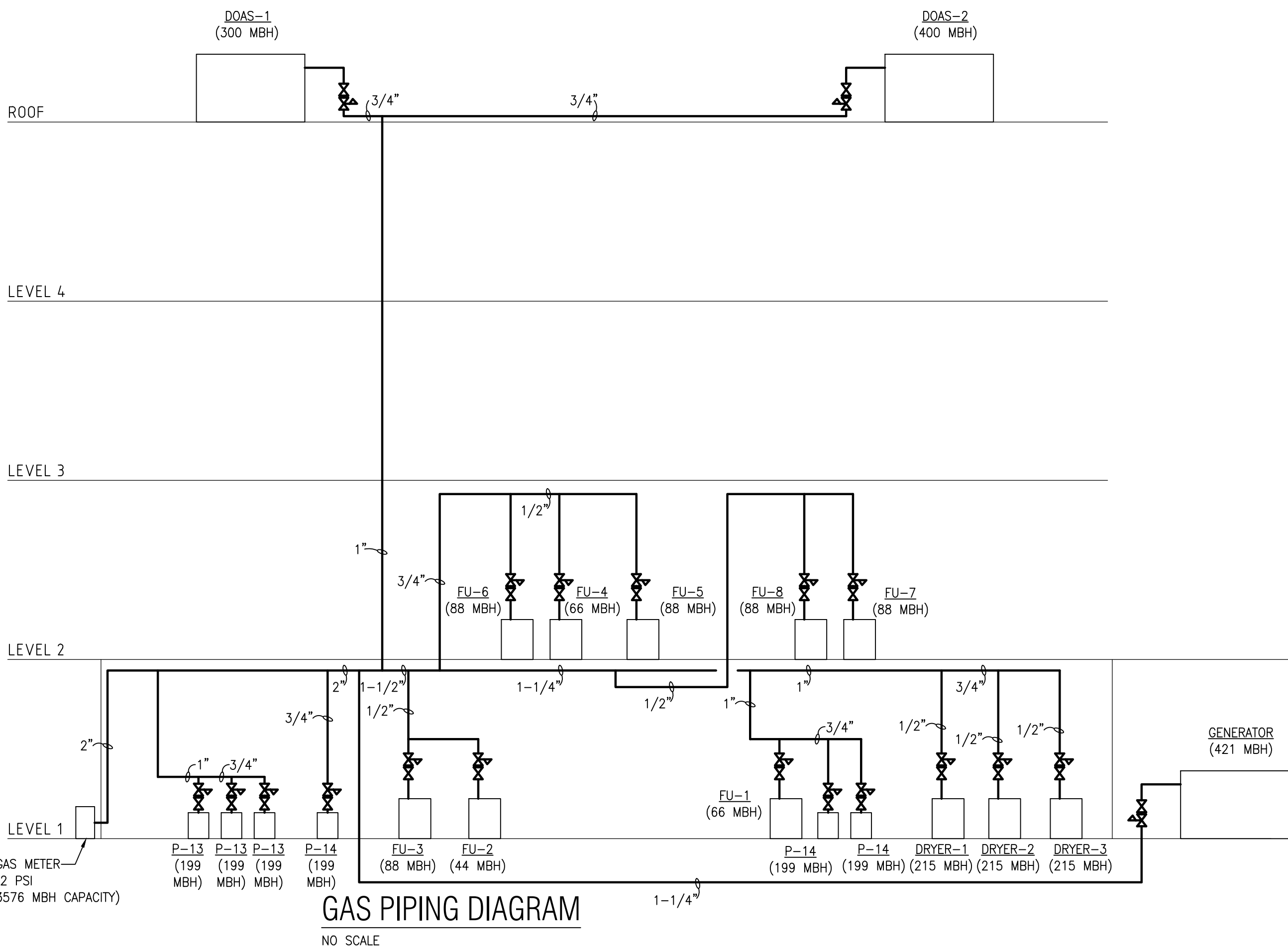
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UNIT FIXTURE CONNECTION SCHEDULE									
TAG	FIXTURE	MANUFACTURER	MODEL NUMBER	HW	CW	SAN	VENT	DESCRIPTION	ELECTRICAL INFO
WC-1	ADA WATER CLOSET	AMERICAN STANDARD	"CHAMPION PRO RIGHT HEIGHT" #211AA-104	--	1/2"	3"	2"	RIGHT HEIGHT TOILET, ELONGATED FRONT, VITREOUS CHINA, TWO PIECE TOILET, LOW CONSUMPTION 1.28 GPF, ADA COMPLIANT, WATERSENSE CERTIFIED. SEAT: AMERICAN STANDARD MODEL #5325.010, ELONGATED CHAMPION SLOW CLOSE SOLID PLASTIC SEAT AND COVER.	--
LAV-1	ADA LAVATORY	AMERICAN STANDARD	"OVALYN" #9482.000	1/2"	1/2"	1-1/2"	1-1/2"	UNDERMOUNT LAVATORY WITH REAR OVERFLOW, VITREOUS CHINA, MOUNTING KIT. FAUCET: MOEN "VIA" MODEL #58000, CHROME, 1/2" CONNECTIONS AND LEVER HANDLE, 1.2 GPM, METAL POP-UP WASTE ASSEMBLY, ADA COMPLIANT, WATERSENSE CERTIFIED. MIXING VALVE: ZURN "AQUA-GUARD" MODEL #ZW3870XLT. FURNISH CHROME STOPS, SUPPLIES AND 1-1/4" WHEELCHAIR LAVATORY DRAIN WITH STAINLESS STEEL GRID AND P-TRAP, PROTECT 17 GAUGE CHROME TRAP AND SUPPLIES WITH A TRAP WRAP KIT SOOR AS MANUFACTURED BY BROCAR PRODUCTS INC. LAVATORY MOUNTING HEIGHT SHALL BE AS REQUIRED BY THE A.D.A.	--
SH-1	SHOWER	--	--	1/2"	1/2"	1-1/2"	1-1/2"	SHOWER PAN TO BE SELECTED BY ARCHITECT. PROVIDE SHOWER DRAIN AND SHOWER VALVE. ENCLOSURE WILL BE TILED BY ARCHITECT. IRIM: MOEN MODEL #82604 SINGLE HANDLE PRESSURE BALANCING SHOWER VALVE, 1.75 GPM, ADA COMPLIANT, WATERSENSE CERTIFIED.	--
SH-1A	ADA SHOWER	--	--	1/2"	1/2"	1-1/2"	1-1/2"	ACCESSIBLE SHOWER PAN TO BE SELECTED BY ARCHITECT. PROVIDE SHOWER DRAIN AND SHOWER VALVE. PROVIDE ADA GRAB BAR AND ACCESSORIES. ENCLOSURE WILL BE TILED BY ARCHITECT. IRIM: MOEN MODEL #8348P15 SINGLE HANDLE PRESSURE BALANCING SHOWER VALVE WITH HAND-HELD SHOWER SYSTEM, 1.5 GPM, ADA COMPLIANT, WATERSENSE CERTIFIED.	--
BT-1	BATHTUB	--	--	1/2"	1/2"	1-1/2"	1-1/2"	TUB TO BE SELECTED BY ARCHITECT. PROVIDE SHOWER DRAIN AND SHOWER VALVE. ENCLOSURE WILL BE TILED BY ARCHITECT. IRIM: MOEN MODEL #82603 SINGLE HANDLE PRESSURE BALANCING TUB/SHOWER VALVE, 1.75 GPM, ADA COMPLIANT, WATERSENSE CERTIFIED.	--
BT-1A	BATHTUB	--	--	1/2"	1/2"	1-1/2"	1-1/2"	ACCESSIBLE TUB WITH SWING OUT APRON TO BE SELECTED BY ARCHITECT. PROVIDE SHOWER DRAIN AND SHOWER VALVE. PROVIDE ADA GRAB BAR AND ACCESSORIES. ENCLOSURE WILL BE TILED BY ARCHITECT. IRIM: MOEN MODEL #82603 SINGLE HANDLE PRESSURE BALANCING TUB/SHOWER VALVE, 1.75 GPM, ADA COMPLIANT, WATERSENSE CERTIFIED.	--
S-1	HAND SINK	ELKAY	"GOURMET" #SCUH1012SH	1/2"	1/2"	1-1/2"	1-1/2"	UNDERMOUNT SINK, 10"x12"x6.5", STAINLESS STEEL, MOUNTING KIT. FAUCET: MOEN "CIA" MODEL #5622, CHROME, 100° ARC, 1/2" CONNECTIONS AND LEVER HANDLE, 1.5 GPM, ADA COMPLIANT. MIXING VALVE: ZURN "AQUA-GUARD" MODEL #ZW3870XLT. FURNISH CHROME STOPS, SUPPLIES AND 1-1/4" WHEELCHAIR LAVATORY DRAIN WITH STAINLESS STEEL GRID AND P-TRAP, PROTECT 17 GAUGE CHROME TRAP AND SUPPLIES WITH A TRAP WRAP KIT SOOR AS MANUFACTURED BY BROCAR PRODUCTS INC. LAVATORY MOUNTING HEIGHT SHALL BE AS REQUIRED BY THE A.D.A.	--

REMARKS:
1) THE CONTRACTOR IS RESPONSIBLE TO FURNISH AND INSTALL ALL HARDWARE AND APPURTENANCES FOR A COMPLETE INSTALLATION OF PLUMBING FIXTURES/EQUIPMENT PER APPLICABLE CODES AND MANUFACTURER.

GAS LOAD SUMMARY		
NO.	EQUIPMENT	CFH
P-13	WATER HEATER	199
P-13	WATER HEATER	199
P-13	WATER HEATER	199
P-14	TANKLESS WATER HEATER	199
P-14	TANKLESS WATER HEATER	199
P-14	TANKLESS WATER HEATER	199
FU-1	FURNACE	66
FU-2	FURNACE	44
FU-3	FURNACE	88
FU-4	FURNACE	66
FU-5	FURNACE	88
FU-6	FURNACE	88
FU-7	FURNACE	88
FU-8	FURNACE	88
-	COMMERCIAL DRYER	215
-	COMMERCIAL DRYER	215
-	COMMERCIAL DRYER	215
-	DOAS-1	300
-	DOAS-2	400
-	GENERATOR	421
TOTAL		3576

GAS PIPING SIZING CHART - MEDIUM PRESSURE									
SIZE	1/2"	3/4"	1"	1-1/4"	1-1/2"	2"	2-1/2"	3"	4"
CFH	192	401	717	1470	2210	4250	6770	12000	24400
EQUIVALENT LENGTH = 500'-0" INLET PRESSURE = 2.0 PSI PRESSURE DROP = 1.0 PSI									



NATURAL GAS SERVICE
NATURAL GAS DESIGN AND SIZING REFLECTS A MEDIUM PRESSURE (2 PSI WITH 1 PSI PRESSURE DROP). PLUMBING CONTRACTOR IS TO PROVIDE PRESSURE REGULATORS AT EVERY NATURAL GAS LOAD TO MATCH MANUFACTURER'S RECOMMENDED PRESSURE FOR THE EQUIPMENT OR APPLIANCE BEING SERVED. CONFIRM LINE SIZING AND ADAPT IF NECESSARY BASED ON ACTUAL SERVICE. PRESSURE BASED ON METER INSTALLED BY GAS COMPANY. TOTAL BUILDING LOAD IS 3,576 WITH A TOTAL EQUIVALENT LENGTH OF 500'. CONFIRM DEMAND WITH SELECTED NATURAL GAS EQUIPMENT AND LENGTH WITH PIPING INSTALLATION.

COMMON AREA FIXTURE CONNECTION SCHEDULE									
TAG	FIXTURE	MANUFACTURER	MODEL NUMBER	HW	CW	SAN	VENT	DESCRIPTION	ELECTRICAL INFO
P-1	ADA WATER CLOSET	AMERICAN STANDARD	"CADET RIGHT HEIGHT" #2467.016	--	1/2"	4"	2"	PRESSURE-ASSISTED TOILET, ELONGATED FRONT, VITREOUS CHINA, TWO PIECE TOILET, LOW CONSUMPTION 1.6 GPF, ADA SEAT: AMERICAN STANDARD MODEL #5901.100D20 HEAVY-DUTY COMMERCIAL, ELONGATED CHAMPION SLOW, OPEN-FRONT PLASTIC SEAT.	--
P-2	ADA WATER CLOSET	GERBER	"ULTRA FLUSH" #RHE20325	--	1/2"	4"	2"	ERGHEIGHT TOILET, ELONGATED FRONT, VITREOUS CHINA, TWO PIECE TOILET, LOW CONSUMPTION 1.28 GPF, ADA COMPLIANT, WATERSENSE CERTIFIED. SEAT: GERBER MODEL #G0099849, ADJUSTABLE SLOW CLOSE ELONGATED TOILET SEAT WITH COVER.	--
P-3	ADA LAVATORY	AMERICAN STANDARD	"AQUALYN" #0476.028	1/2"	1/2"	1-1/2"	1-1/2"	DROP-IN LAVATORY WITH FRONT OVERFLOW, VITREOUS CHINA, FAUCET HOLES ON 4" CENTERS. FAUCET: MOEN "M-BITION" MODEL #8430, CHROME, 4" CENTERSET, 1/2" CONNECTIONS AND LEVER HANDLE, 1.2 GPM, ADA COMPLIANT, WATERSENSE CERTIFIED. MIXING VALVE: ZURN "AQUA-GUARD" MODEL #ZW3870XLT. FURNISH CHROME STOPS, SUPPLIES AND 1-1/4" WHEELCHAIR LAVATORY DRAIN WITH STAINLESS STEEL GRID AND P-TRAP, PROTECT 17 GAUGE CHROME TRAP AND SUPPLIES WITH A TRAP WRAP KIT SOOR AS MANUFACTURED BY BROCAR PRODUCTS INC. LAVATORY MOUNTING HEIGHT SHALL BE AS REQUIRED BY THE A.D.A.	--
P-4	ADA LAVATORY	AMERICAN STANDARD	"LUCERNE" #0355.012	1/2"	1/2"	1-1/2"	1-1/2"	WALL HUNG LAVATORY WITH FAUCET LEDGE, VITREOUS CHINA, FAUCET HOLES ON 4" CENTERS, OVERFLOW & WALL HANGER. FAUCET: MOEN "M-BITION" MODEL #8430F05, CHROME, 4" CENTERSET, 1/2" CONNECTIONS AND LEVER HANDLE, 0.5 GPM, ADA COMPLIANT, WATERSENSE CERTIFIED. MIXING VALVE: ZURN "AQUA-GUARD" MODEL #ZW3870XLT. FURNISH CHROME STOPS, SUPPLIES AND 1-1/4" WHEELCHAIR LAVATORY DRAIN WITH STAINLESS STEEL GRID AND P-TRAP, PROTECT 17 GAUGE CHROME TRAP AND SUPPLIES WITH A TRAP WRAP KIT SOOR AS MANUFACTURED BY BROCAR PRODUCTS INC. LAVATORY MOUNTING HEIGHT SHALL BE AS REQUIRED BY THE A.D.A.	--
P-5	URINAL	AMERICAN STANDARD	"WASHBROOK" #6501.511	--	3/4"	2"	1-1/2"	WALL HUNG URINAL, VITREOUS CHINA, SIPHON JET WITH FLUSHING RIM, TOP SPUD, WALL HANGER, ANGLE STOP, STRAINER, ADA. FLUSH VALVE: SLOAN "G2" MODEL #B06-1.0, BATTERY POWERED SENSOR OPERATED FLUSHMETER, 1.0 GPF, ADA.	--
P-6	BREAK ROOM SINK	ELKAY	"LUSTERTONE" #RAD312265PD	1/2"	1/2"	1-1/2"	2"	ADA DROP-IN SINK WITH PERFECT DRAIN, #18 GAUGE STAINLESS STEEL, MOUNTING CLIPS, DRAIN, 3 HOLE, 4" CENTERS. FAUCET: MOEN "CHATEAU" MODEL #67425, SINGLE HANDLE, 1/2" CONNECTIONS, 9" SPOUT, 1.5 GPM, ADA COMPLIANT. DISPOSER: INSINKERATOR BADGER 8, 120V-14, 6.8 AMPS, PROVIDE PLUMBBERX MODEL #3071WD-N WASTE DISPOSAL COVER AS REQUIRED BY THE A.D.A.	--
P-7	WASHING MACHINE BOX	OATEY	38541	1/2"	1/2"	2"	1-1/2"	OATEY 38541 OR EQUAL FOR INSTALLATIONS IN NON-RATED WALLS. PROVIDE OATEY 38471 OR EQUAL FIRE RATED WASHING MACHINE BOX FOR INSTALLATIONS IN RATED WALLS.	--
P-8	LAUNDRY SINK	MUSTEE	#21CP	1/2"	1/2"	3"	1-1/2"	POLYPROPYLENE WHITE FLOOR MOUNTED 24x18 TUB, 15 GALLON CAPACITY, MOLD AND MILDEW RESISTANT. FAUCET: MOEN "CHATEAU" MODEL #67425, SINGLE HANDLE, 1/2" CONNECTIONS, 9" SPOUT, 1.5 GPM, ADA COMPLIANT.	--
P-9	BOTTLE FILLER	ELKAY	LZWSMRK	--	1/2"	--	--	STAINLESS STEEL, IN-WALL MOUNT, SENSOR ACTIVATED, ADA COMPLIANT.	--
P-10	ICE MACHINE	MANITOWOC	SPA-160	--	1/2"	--	--	FREESTANDING, 120 LBS CAPACITY	120V-14
P-11	EYE WASH	GUARDIAN	G1814P	1/2"	1/2"	1-1/2"	1-1/2"	EMERGENCY EYEWASH STATION, PLASTIC BOWL. PROVIDE WITH ASSE 1071 COMPLIANT THERMOSTATIC MIXING VALVE AND SET OUTLET TEMPERATURE TO A MAXIMUM OF 85°F.	--
P-12	MOP SINK	E.L. MUSTEE	"DURASTONE" #63M	1/2"	1/2"	3"	1-1/2"	24"X 24"X 10"HIGH FLOOR MOUNTED, MOLDED STONE SERVICE BASIN WITH CHROME PLATED STRAINER, INTEGRAL MOLDED DRAIN WITH SEAL AND BUMPER GUARDS. FAUCET: MOEN COMMERCIAL MODEL #8124 CHROME PLATED, CAST BRASS, WALL MOUNTED, TWO HANDLE SERVICE SINK FAUCET WITH INTEGRAL VACUUM BREAKER, INTEGRAL STOPS, PAIL HOOK, WALL BRACE AND THREADED HOSE END SPOUT.	--
P-13	GAS WATER HEATER	A.O. SMITH	BTH-199	3/4"	3/4"	--	--	100 GALLON CAPACITY, 199 MBH INPUT, 97% THERMAL EFFICIENCY, 261 GPH RECOVERY @ 90°F RISE. PROVIDE COMPLETE WITH T&P RELIEF VALVE, VACUUM RELIEF VALVE, DRAIN VALVE, AND SAFETY DRAIN PAN. PROVIDE COMPLETE WITH HOT WATER RECIRCULATION PUMP, GRUNDFOS #UP15-29SU, 1/25 HP, 115V, AND AQUASTAT. INSTALL PER MANUFACTURER'S INSTRUCTIONS.	120V-14
P-14	TANKLESS WATER HEATER	NAVIEN	NPE-240A	3/4"	3/4"	--	--	199 MBH, 5.6 GPM FLOW RATE @ 67°F RISE, 0.95 UEF.	120V-14, 350W
GT-1	GREASE TRAP	SCHIER	"GREAT BASIN" #6B-50	--	--	--	--	POLYETHYLENE GREASE INTERCEPTOR 50 GPM; 52 GALLONS OF LIQUID CAPACITY, 249 LBS. GREASE CAPACITY, 37"x28"x28"-1/2" OPTION - 37"4" FLAN END SOL. 40 INLET/OUTLET. PROVIDE WITH TELEGLIDE FIELD-ADJUSTABLE RISER AS REQUIRED. INTERCEPTOR SHALL BE FURNISHED FOR ABOVE OR BELOW GRADE INSTALLATION. INTERCEPTOR SHALL BE CERTIFIED TO ASME A112.14.3 (TYPE C) AND CSA B481.1, WITH FIELD CUT RISER SYSTEM, BUILT-IN FLOW CONTROL, BUILT-IN TEST CAPS AND THREE OUTLET OPTIONS. COVER SHALL PROVIDE WATER/GAS-TIGHT SEAL AND HAVE MINIMUM 2000 LBS. LOAD CAPACITY. PROVIDE FLOW CONTROL VENT ON GREASE TRAP INLET IN ACCORDANCE WITH MANUFACTURER'S INSTALLATION INSTRUCTIONS.	--
FD	FLOOR DRAIN	SIOUX CHIEF	863-445NR	--	--	3"	--	MEDIUM DUTY, NICKEL-BRONZE, HEEL-PROOF NICKEL RING AND STRAINER. PVC HOUSING AND FLASHING. INSTALL WITH RECTORSEAL "SURESEAL" TRAP SEALER.	--
FS	FLOOR SINK	J.R. SMITH	3431-12	--	--	3"	--	CAST IRON BODY WITH ACID RESISTANT COATED INTERIOR AND ACID RESISTANT COATED CAST IRON 12" SQUARE 1/2, 3/4, OR FULL GRATE (AS APPROPRIATE TO INDIRECT WASTE DISCHARGE), 8" DEEP WITH ALUMINUM SEDIMENT BUCKET. PROVIDE OUTLET WITH P-TRAP.	--
TD	TRENCH DRAIN	ZURN	Z886	--	--	3"	--	6-1/4" WIDE REVEAL TRENCH DRAIN SYSTEM WITH STAINLESS STEEL GRATES. PROVIDE ALL ACCESSORIES FOR A COMPLETE INSTALLATION.	--
CO	FLOOR CLEANOUT	ZURN	C02450	--	--	3"	--	GENERAL PURPOSE CLEANOUT.	--
FWH-1	FROSTPROOF WALL HYDRANT	--	--	--	3/4"	--	--	AUTOMATIC DRAINING FREEZELESS WALL HYDRANT, CHROME FINISH, WITH COMBINATION 3/4" MALE THREADED, 3/4" MALE SWEAT INLET, AND "N" MODEL #34HA ANTI-SIPHON VACUUM BREAKER.	--

REMARKS:
1) THE CONTRACTOR IS RESPONSIBLE TO FURNISH AND INSTALL ALL HARDWARE AND APPURTENANCES FOR A COMPLETE INSTALLATION OF PLUMBING FIXTURES/EQUIPMENT PER APPLICABLE CODES AND MANUFACTURER.

SANITARY LOAD SUMMARY			
FIXTURE	QTY	DFU/FIXTURE	TOTAL DFU
UNIT BATHROOM GROUP	113	5	565.00
UNIT SINK	113	2	226.00
PUBLIC LAVATORY SINK	3	2	6.00
PUBLIC WATER CLOSET	4	4	16.00
BREAKROOM SINK	1	2	2.00
PUBLIC URINAL	1	4	4.00
MOP SINK	4	2	8.00
COMMERCIAL WASHER	2	3	6.00
GUEST WASHER	2	3	6.00
FLOOR/HUB DRAIN	16	2	32.00
FLOOR SINK	11	2	22.00
HAND SINK	1	2	2.00
DRINKING FOUNTAIN	2	1	2.00
3-COMPARTMENT SINK	1	3	3.00
TOTAL			900.00

WATER LOAD SUMMARY							
FIXTURE	QTY	CW WSFU	HW WSFU	TOTAL WSFU	TOTAL CW	TOTAL HW	TOTAL WSFU
UNIT BATHROOM GROUP	113	2.7	1.5	3.6	305.10	169.50	406.80
UNIT SINK	113	1.0	1.0	1.4	113.00	113.00	158.20
PUBLIC LAVATORY SINK	3	1.5	1.5	2.0	4.50	4.50	6.00
PUBLIC WATER CLOSET	4	5.0	0	5.0	20.00	0.00	20.00
PUBLIC URINAL	1	10.0	0	10.0	10.00	0.00	10.00
BREAKROOM SINK	1	1.0	1.0	1.4	1.00	1.00	1.40
MOP SINK	4	3.0	3.0	4.0	12.00	12.00	16.00
COMMERCIAL WASHER	3	3.0	3.0	4.0	9.00	9.00	12.00
GUEST WASHER	2	2.25	2.25	3.0	4.50	4.50	6.00
HAND SINK	1	1.5	1.5	2.0	1.50	1.50	2.00
3-COMPARTMENT SINK	1	3.0	3.0	4.0	3.00	3.00	4.00
ICE MACHINE	4	1.0	0	1.0	4.00	0.00	4.00
COFFEE BREWER	2	2.0	0	2.0	4.00	0.00	4.00
HOSE BIBB	9	1.0	0	1.0	9.00	0.00	9.00
DRINKING FOUNTAIN	2	.25	0	.25	0.50	0.00	0.50
TOTAL					501.10	318.00	659.90

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HAMILTON COUNTY
PLUMBING SCHEDULES

ISSUE / REVISION DATE:

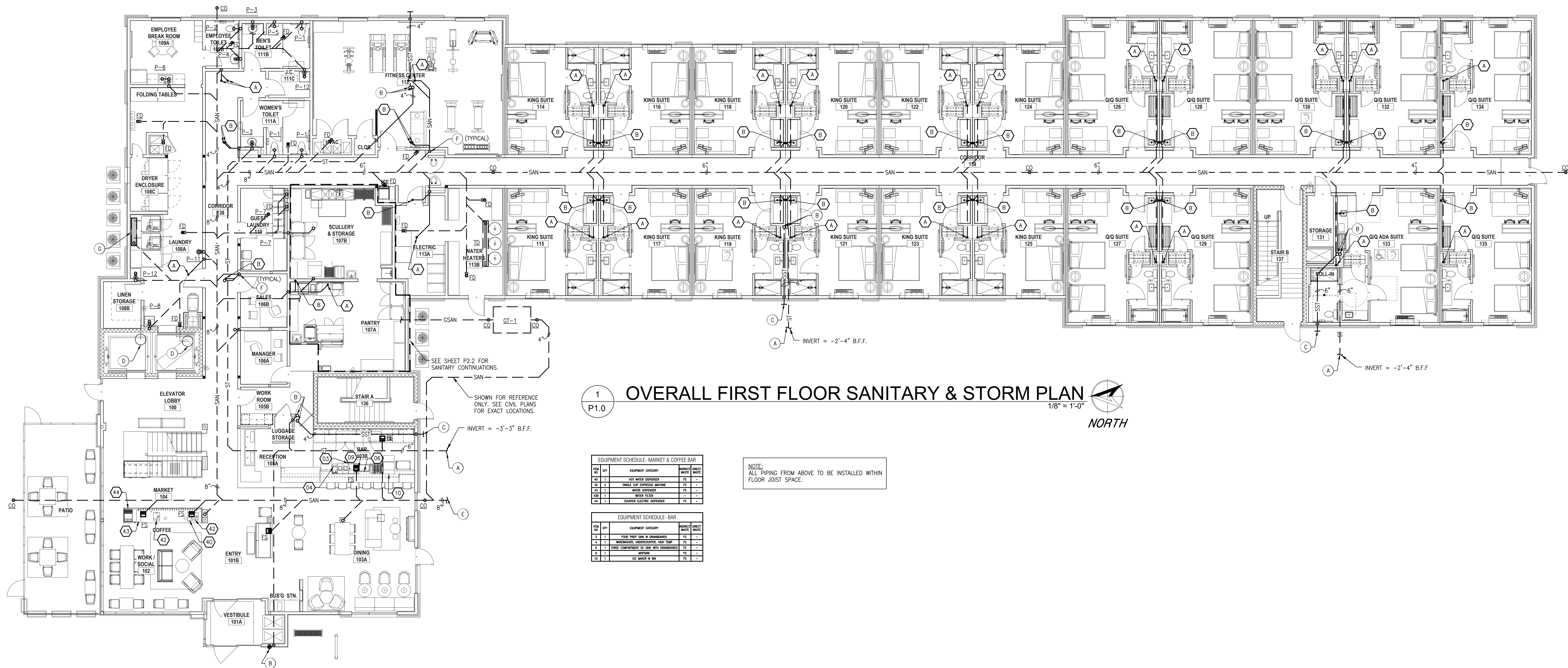
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P1.0

OVERALL FIRST FLOOR SANITARY & STORM PLAN

1/8" = 1'-0"



EQUIPMENT SCHEDULE - MARKET & COFFEE BAR			
ITEM	QTY	EQUIPMENT CATEGORY	MARKET COFFEE BAR
40	1	HOT WATER DISPENSER	FS
41	1	SINGLE CUP ESPRESSO MACHINE	FS
42	1	WATER DISPENSER	FS
43	1	WATER FILTER	FS
44	1	COUNTER COOLING DEPENDENT	FS

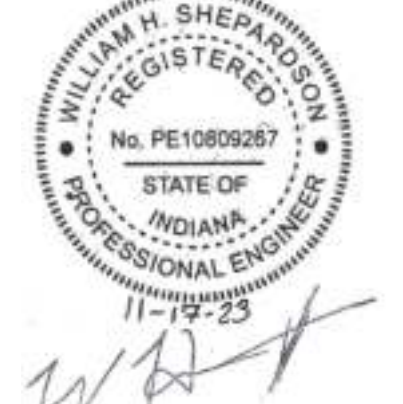
EQUIPMENT SCHEDULE - BAR			
ITEM	QTY	EQUIPMENT CATEGORY	MARKET COFFEE BAR
3	1	1000 PREP SINK W/ DRAINBOARDS	FS
4	1	MIDMOUNT, UNDERCOUNTER, HIGH TOP	FS
5	1	THREE COMPARTMENT SS SINK W/ DRAINBOARDS	FS
6	1	MIXING	FS
10	1	ICE MAKER W/ BIN	FS

NOTE:
ALL PIPING FROM ABOVE TO BE INSTALLED WITHIN
FLOOR JOIST SPACE.

LEGEND

SANITARY STACK (A), & (B)
SEE ENLARGED PLUMBING PLANS ON DRAWINGS #P2.01 FOR
CONTINUATION AND STACK DIAGRAMS ON DRAWING #P2.02 FOR SIZING.
PROVIDE CLEANOUT AT BASE OF EACH STACK.

- SANITARY & STORM PIPING PLAN NOTES:**
- (A) STORM SEWER. SEE CIVIL DRAWINGS FOR CONTINUATION.
 - (B) PRIMARY AND SECONDARY STORM UP/DOWN IN CHASE. PROVIDE CLEANOUT AT BASE OF EACH STACK.
 - (C) SECONDARY STORM DRAINAGE TO DISCHARGE VIA DOWNSPOUT NOZZLE.
 - (D) ELEVATOR SUMP PUMP. SEE DETAIL ON DRAWING #P2.02 FOR ADDITIONAL INFORMATION. DISCHARGE TO FLOOR DRAIN IN LAUNDRY ROOM.
 - (E) 8" SANITARY. SEE CIVIL DRAWINGS FOR CONTINUATION.
 - (F) 3" SANITARY DOWN IN WALL SERVING SANITARY STACKS ABOVE.
 - (G) PROVIDE A H-M COMPANY DRAIN TROUGH WITH LINT INTERCEPTOR, INSTALL PER MANUFACTURER'S INSTRUCTIONS.



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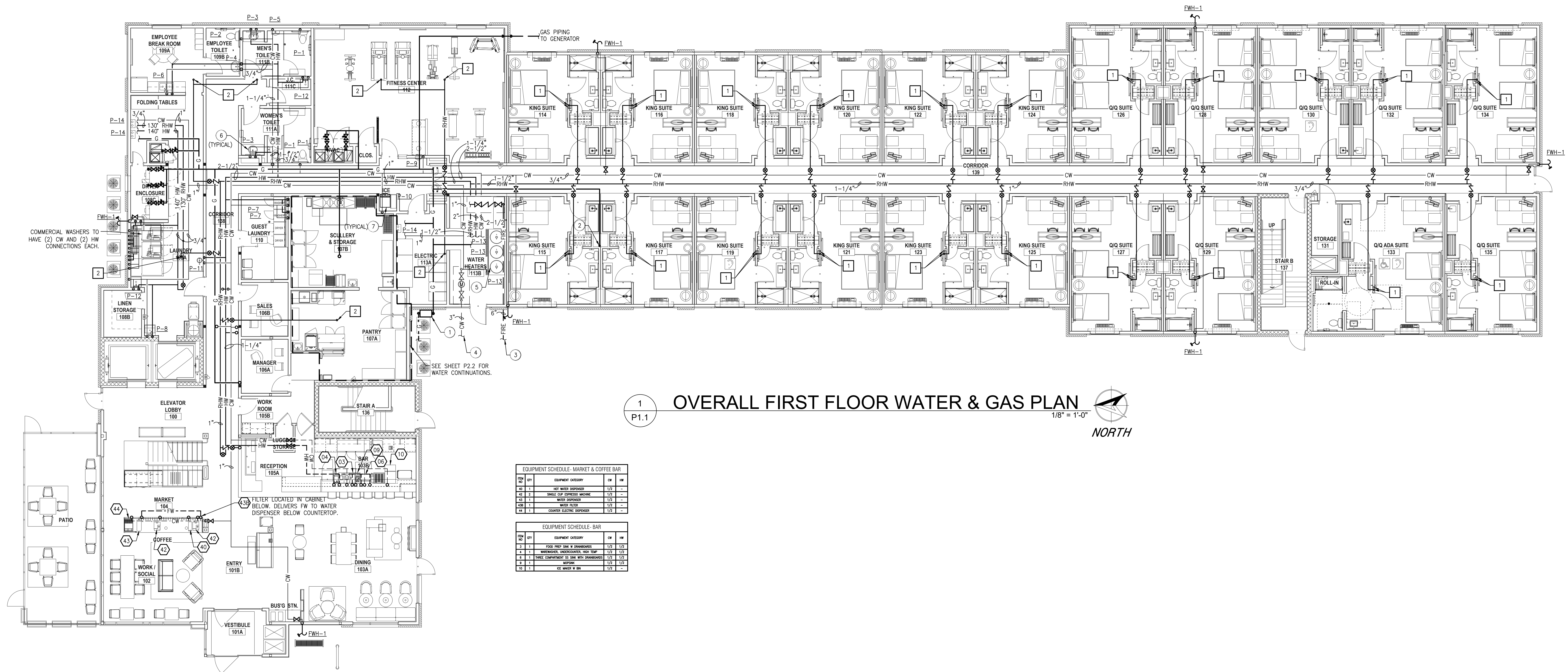
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ATWELL SUITES AN IHG HOTEL ERLEN DR. & MINDEN DR. FISHERS, INDIANA 46037 HAMILTON COUNTY OVERALL FIRST FLOOR SANITARY & STORM PLAN

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P1.0



1
P1.1

OVERALL FIRST FLOOR WATER & GAS PLAN

1/8" = 1'-0"



EQUIPMENT SCHEDULE - MARKET & COFFEE BAR				
ITEM	QTY	EQUIPMENT CATEGORY	CM	HW
42	1	HOT WATER DISPENSER	1/2"	---
43	1	SHRIMP COFFEE DISPENSER	1/2"	---
44	1	WATER DISPENSER	1/2"	---
45	1	WATER FILTER	1/2"	---
46	1	COUNTER COFFEE DISPENSER	1/2"	---

EQUIPMENT SCHEDULE - BAR				
ITEM	QTY	EQUIPMENT CATEGORY	CM	HW
2	1	FOOD PREP SINK W/ DRAINAGE	1/2"	1/2"
3	1	BREWING/COFFEE DISPENSER, HOT TAP	1/2"	1/2"
4	1	THREE COMPARTMENT SINK W/ HOT DRAINAGE	1/2"	1/2"
5	1	WATER	1/2"	1/2"
6	1	ICE CRUSHER	1/2"	---

NOTE:
ALL PIPING FROM ABOVE TO BE INSTALLED WITHIN
FLOOR JOIST SPACE.

WATER & GAS PIPING PLAN NOTES:

- 1 PROPOSED LOCATION OF GAS METER. SEE CIVIL DRAWINGS FOR CONTINUATION. COORDINATE ALL WORK WITH UTILITY COMPANY. EXTEND GAS PIPING TO GAS EQUIPMENT AND PROVIDE PRESSURE REGULATORS, SHUT-OFF VALVES AND DIRTLEGS AT EACH EQUIPMENT. SEE GAS PIPING DIAGRAM ON ON THIS SHEET FOR ADDITIONAL INFORMATION.
- 2 1" GAS PIPING IN CHASE UP TO ROOF TO SERVE DOAS UNITS.
- 3 FIRE ENTRY. SEE CIVIL DRAWINGS FOR CONTINUATION.
- 4 3" INCOMING WATER, SEE CIVIL DRAWINGS FOR CONTINUATION AND BACKFLOW AND METER LOCATION. INSTALL BACKFLOW AND METER PER UTILITY COMPANY'S REQUIREMENTS.
- 5 SEE WATER HEATER DETAIL ON DRAWING #P0.2 FOR PIPING CONFIGURATION. WATER HEATERS SHALL BE ELEVATED 6" ON CONCRETE PAD. PROVIDE STAINLESS STEEL DRAIN PANS AND DRAIN TO FLOOR DRAIN.
- 6 PROVIDE WATER TEMPERING VALVE COMPLIANT WITH ASSE 1070 FOR PUBLIC LAVATORY SINKS.
- 7 PROVIDE POINT OF USE FILTRATION BY TRIPLE CLEAR FORCEFIELD OR EQUAL FOR ICE MACHINES, HYDRATION STATIONS, COFFEE STATIONS, AND ON THE DHWR SYSTEM.



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OVERALL FIRST FLOOR WATER &
GAS PLAN

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P1.1

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B

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2

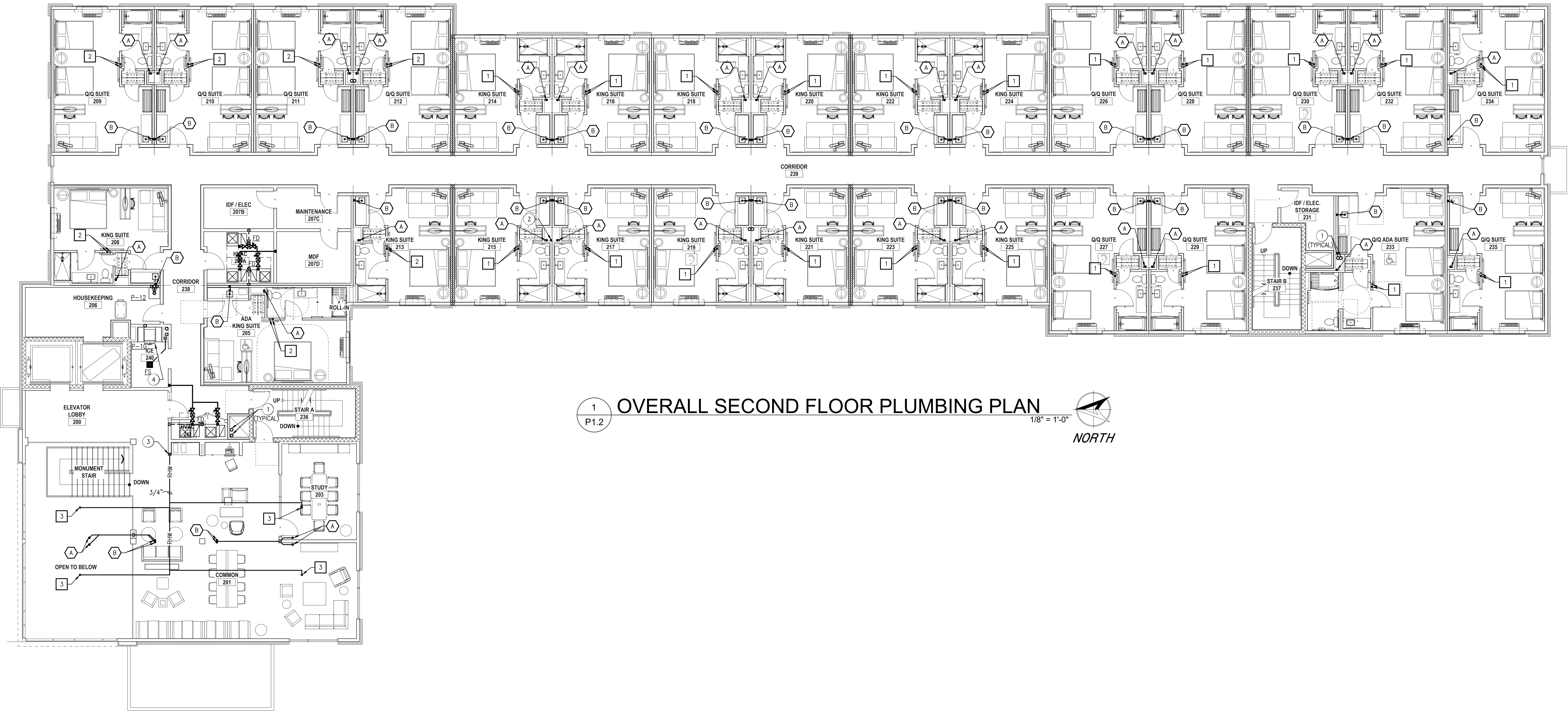
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LEGEND

SANITARY STACK (A), & (B)
SEE ENLARGED PLUMBING PLANS ON DRAWINGS #P2.01 FOR CONTINUATION AND STACK DIAGRAMS ON DRAWING #PD.02 FOR SIZING. PROVIDE CLEANOUT AT BASE OF EACH STACK.

WATER RISER (1), (2), & (3)
SEE ENLARGED PLUMBING PLANS ON DRAWINGS #P2.01 FOR CONTINUATION AND STACK DIAGRAMS ON DRAWING #PD.02 FOR SIZING.

- PLUMBING PLAN NOTES:
- PRIMARY AND SECONDARY STORM DOWN IN CHASE.
 - 1" MEDIUM PRESSURE GAS PIPING UP TO SERVE DOAS UNITS.
 - 3/4" RHW DOWN TO FIRST FLOOR.
 - PROVIDE POINT OF USE FILTRATION BY TRIPLE CLEAR FORCEFIELD OR EQUAL.



1

P1.2

OVERALL SECOND FLOOR PLUMBING PLAN

1/8" = 1'-0"

NORTH

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OVERALL SECOND FLOOR
PLUMBING PLAN

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P1.2

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A

B

1

2

3

LEGEND

SANITARY STACK (A), & (B)
SEE ENLARGED PLUMBING PLANS ON DRAWINGS #P2.01 FOR CONTINUATION AND STACK DIAGRAMS ON DRAWING #P0.02 FOR SIZING. PROVIDE CLEANOUT AT BASE OF EACH STACK.

WATER RISER (1), (2), & (3)
SEE ENLARGED PLUMBING PLANS ON DRAWINGS #P2.01 FOR CONTINUATION AND STACK DIAGRAMS ON DRAWING #P0.02 FOR SIZING.

- PLUMBING PLAN NOTES:
- PRIMARY AND SECONDARY STORM DOWN IN CHASE.
 - 1" MEDIUM PRESSURE GAS PIPING UP TO SERVE DOAS UNITS.
 - 3/4" CW UP TO ROOF HYDRANT.
 - PROVIDE POINT OF USE FILTRATION BY TRIPLE CLEAR FORCEFIELD OR EQUAL.
 - PROVIDE AUTOMATIC BALANCING VALVE AT HOT WATER RECIRCULATION RISER. SET BALANCING VALVES TO 0.5 GPM.
 - PLUMBING CONTRACTOR TO PROVIDE ACCESS PANELS IN GUESTROOMS AND CORRIDOR FOR SHUTOFF VALVES. SHUT-OFF VALVES IN CORRIDORS CAN BE GROUPED TO LIMIT THE AMOUNT OF PANELS.



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OVERALL THIRD FLOOR PLUMBING PLAN

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P1.3

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A

B

1

2

3

LEGEND

SANITARY STACK (A), & (B)
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WATER RISER (1), (2), & (3)
SEE ENLARGED PLUMBING PLANS ON DRAWINGS #P2.01 FOR CONTINUATION AND STACK DIAGRAMS ON DRAWING #PD.02 FOR SIZING.

- PLUMBING PLAN NOTES:
- 1 PRIMARY AND SECONDARY ROOF DRAINS ABOVE.
 - 2 PRIMARY AND SECONDARY STORM DOWN IN CHASE.
 - 3 4" VENT UP THROUGH ROOF.
 - 4 1" MEDIUM PRESSURE GAS PIPING UP TO SERVE DOAS UNIT.
 - 5 3/4" CW UP TO ROOF HYDRANT.
 - 6 PROVIDE POINT OF USE FILTRATION BY TRIPLE CLEAR FORCEFIELD OR EQUAL.



1

P1.4

OVERALL FOURTH FLOOR PLUMBING PLAN

1/8" = 1'-0"

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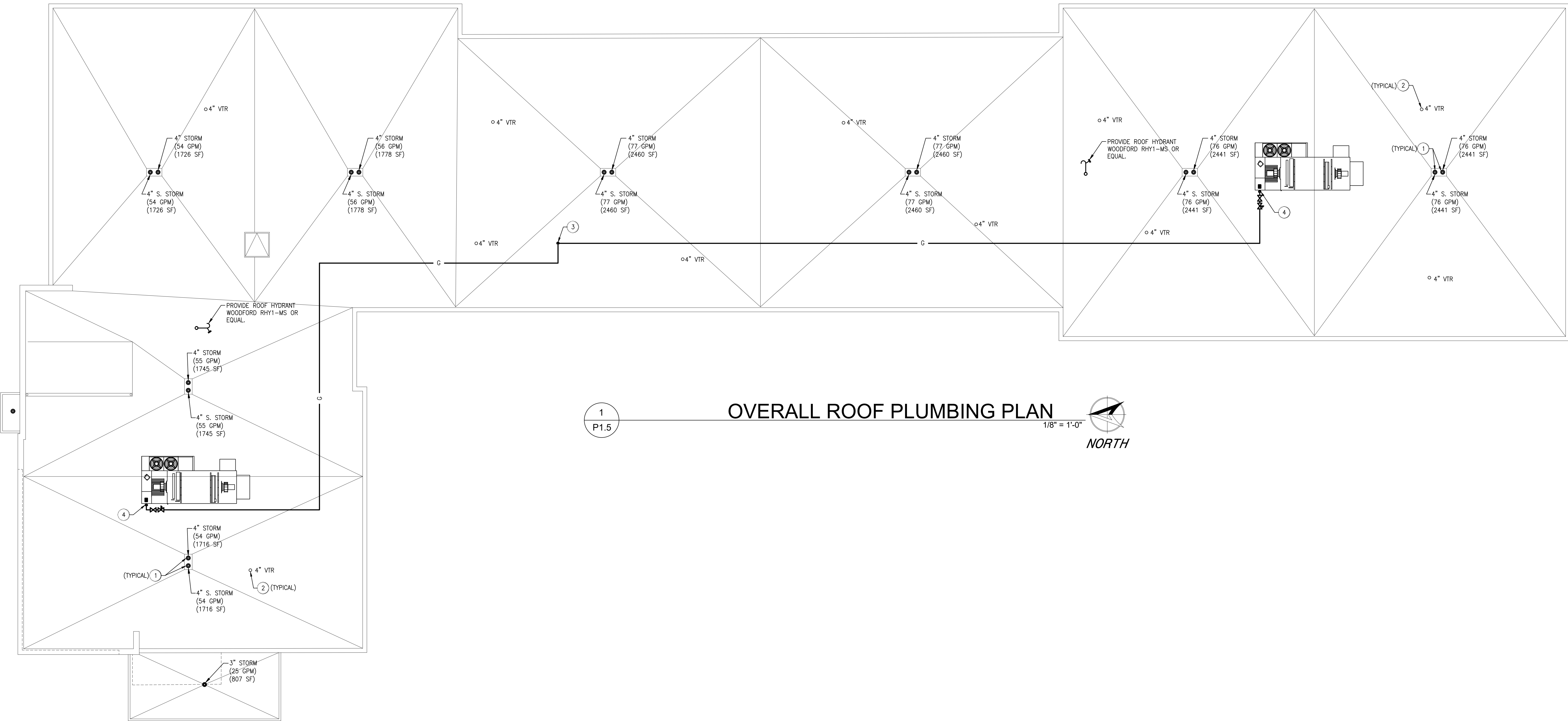
OVERALL FOURTH FLOOR
PLUMBING PLAN

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- PLUMBING PLAN NOTES:
- 1 PRIMARY AND SECONDARY ROOF DRAINS.
 - 2 4" VENT UP THROUGH ROOF.
 - 3 1" MEDIUM PRESSURE GAS PIPING UP TO SERVE DOAS UNITS.
 - 4 PROVIDE GAS PRESSURE REGULATOR AT EACH EQUIPMENT AND MAKE FINAL CONNECTION. PROVIDE SHUT-OFF, UNION, AND DIRT LEG.

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OVERALL ROOF PLUMBING PLAN

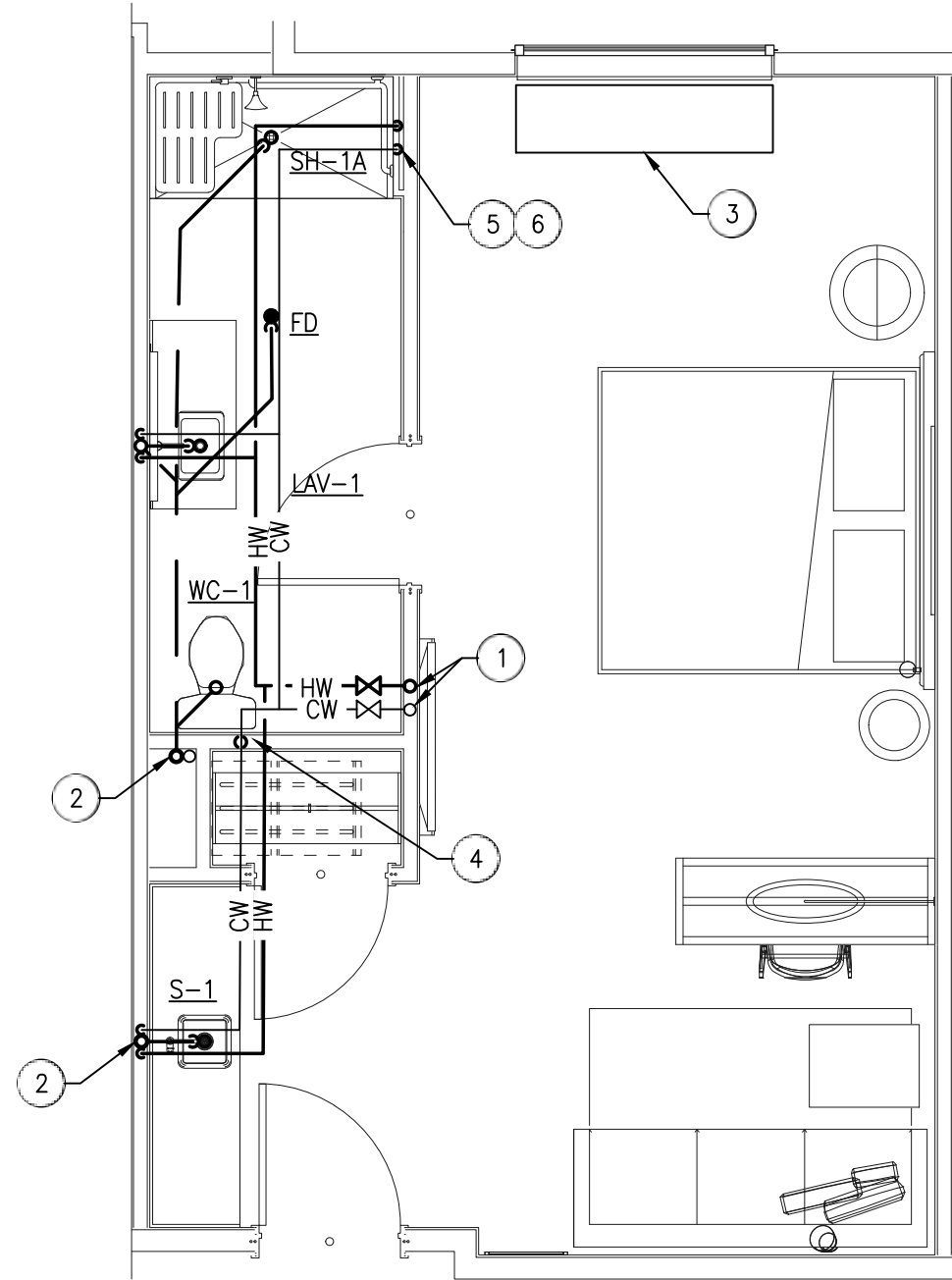
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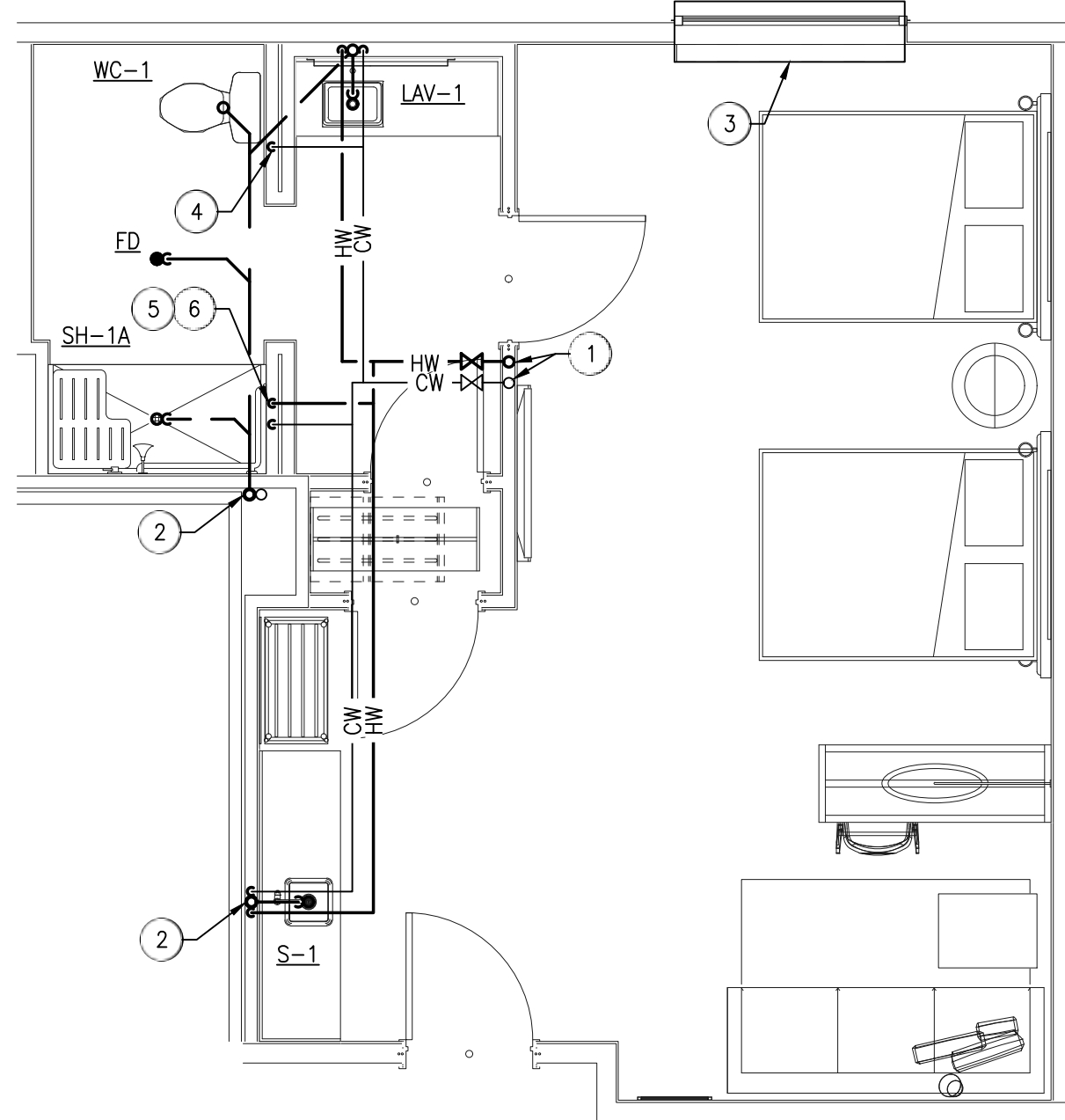
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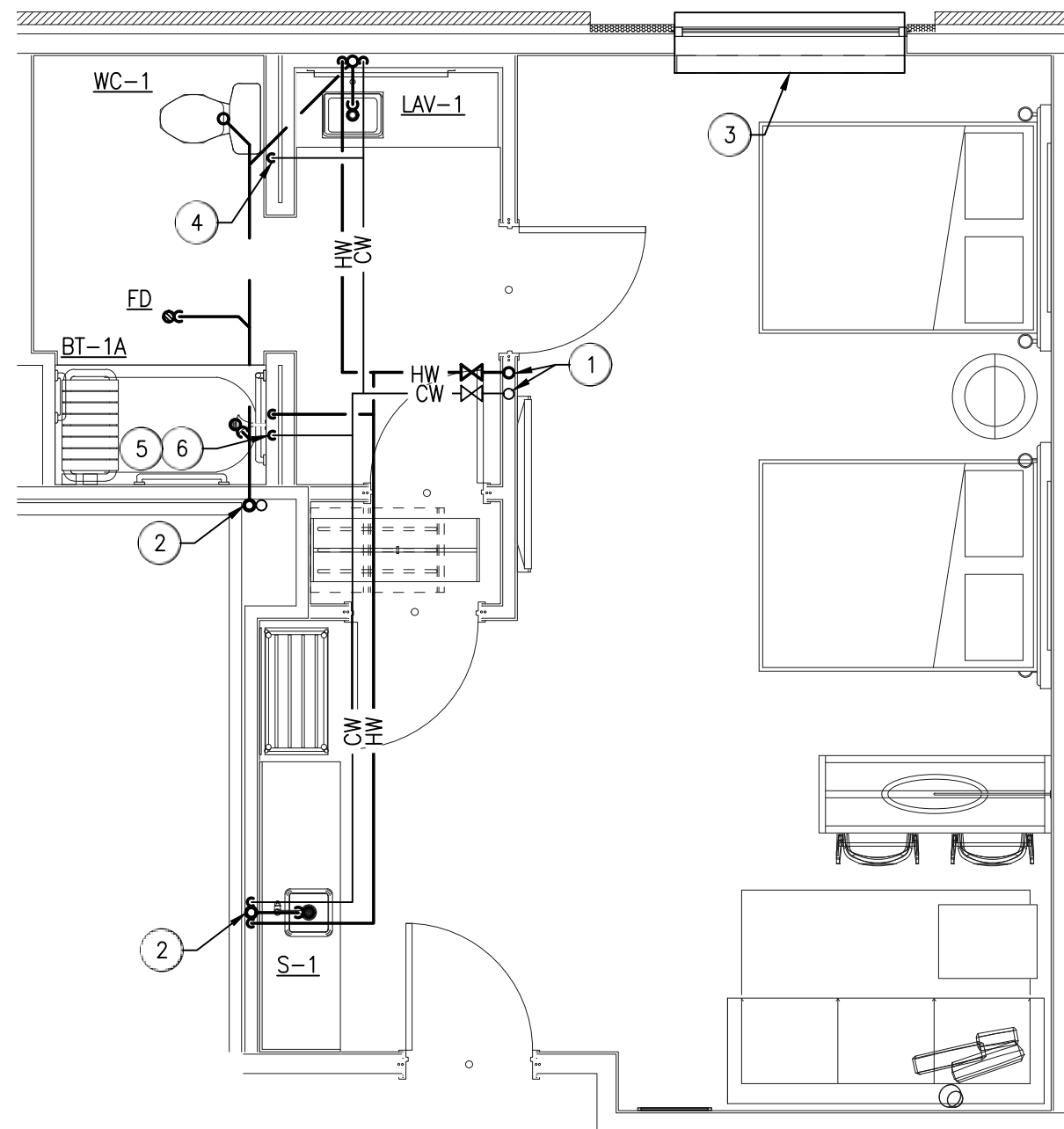
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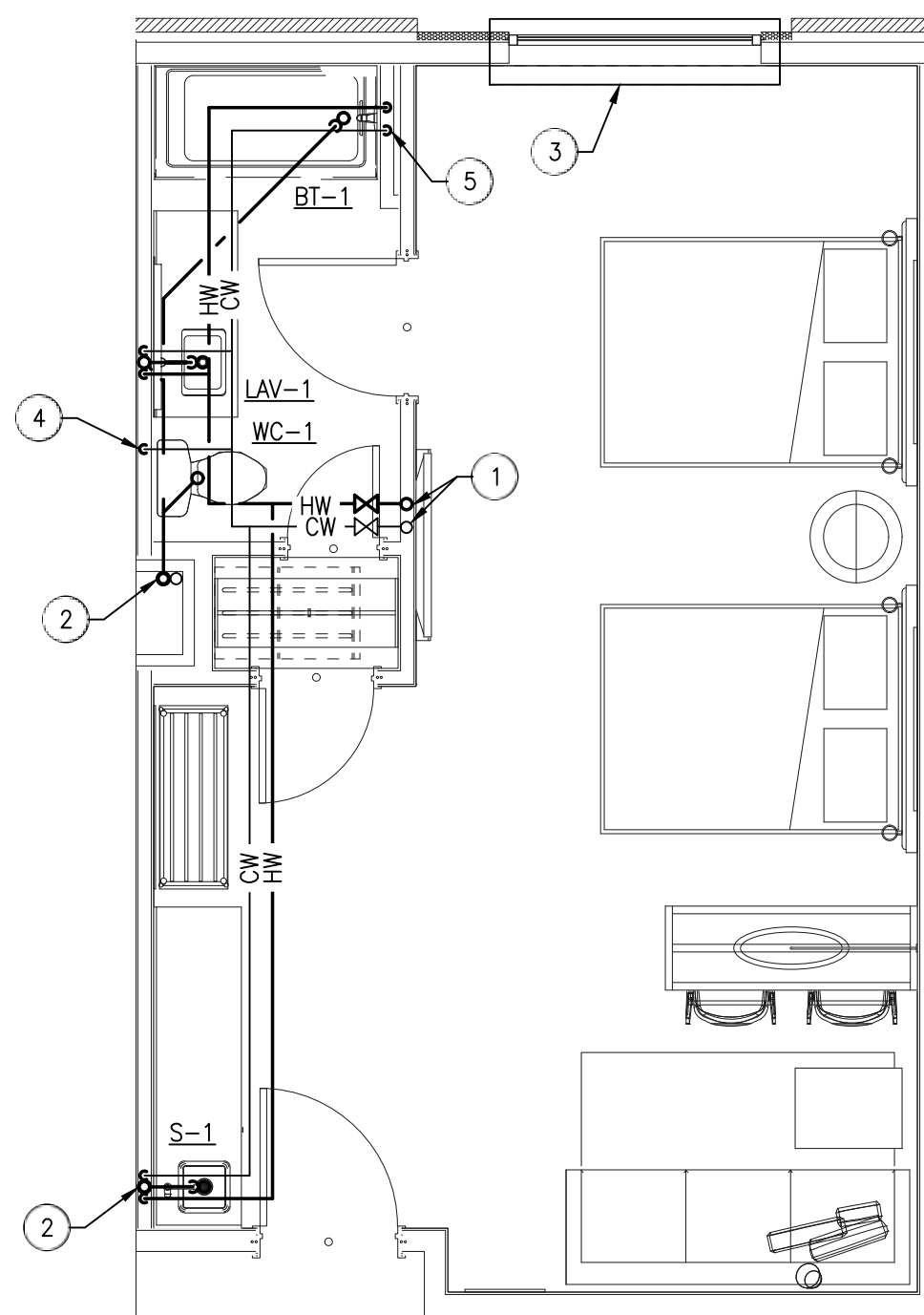
ALTERNATE PLAN
7
P2.1
ADA KING SUITE PLUMBING PLAN
1/4" = 1'-0"



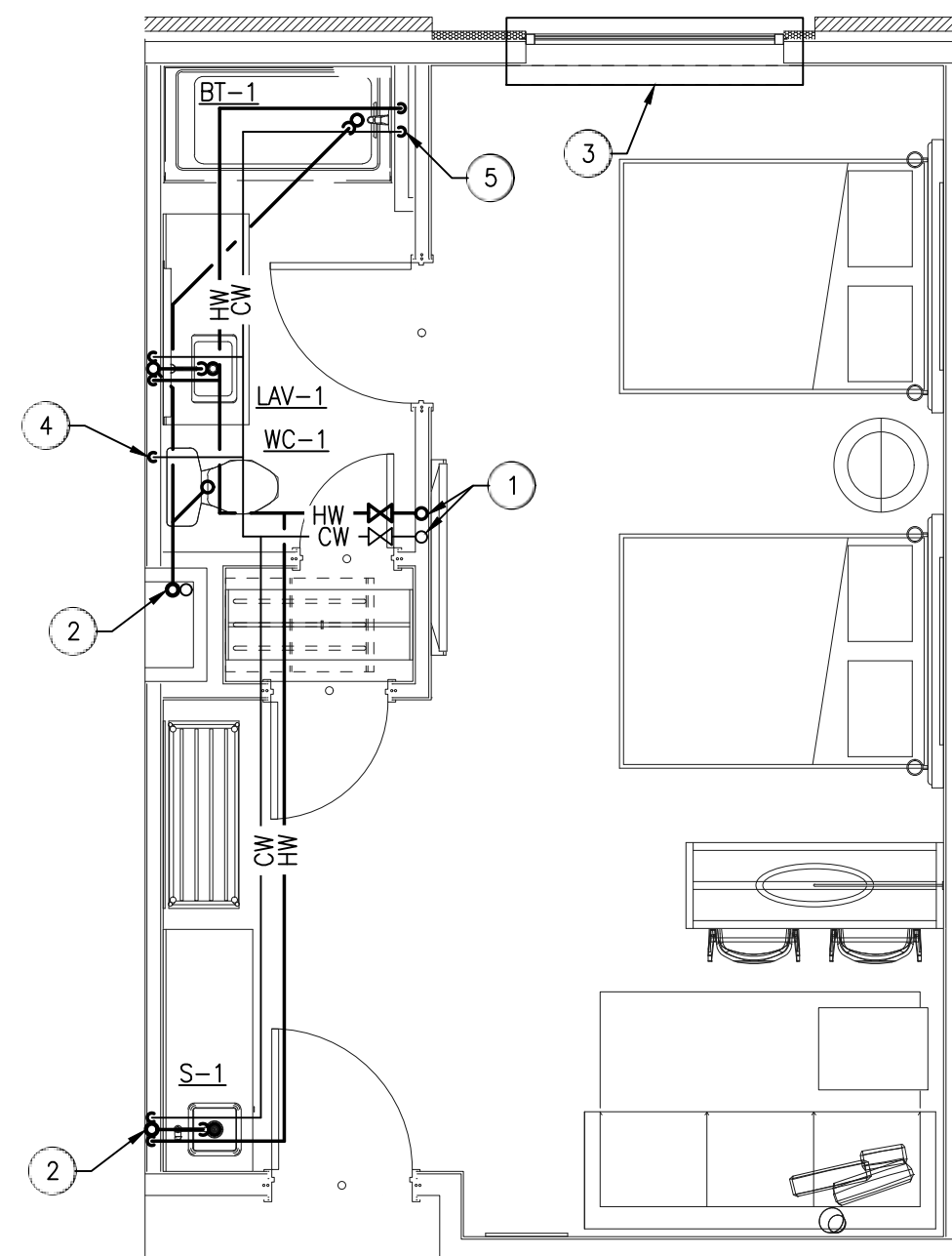
ALTERNATE PLAN
6
P2.1
ADA DOUBLE QUEEN SUITE PLUMBING PLAN
1/4" = 1'-0"



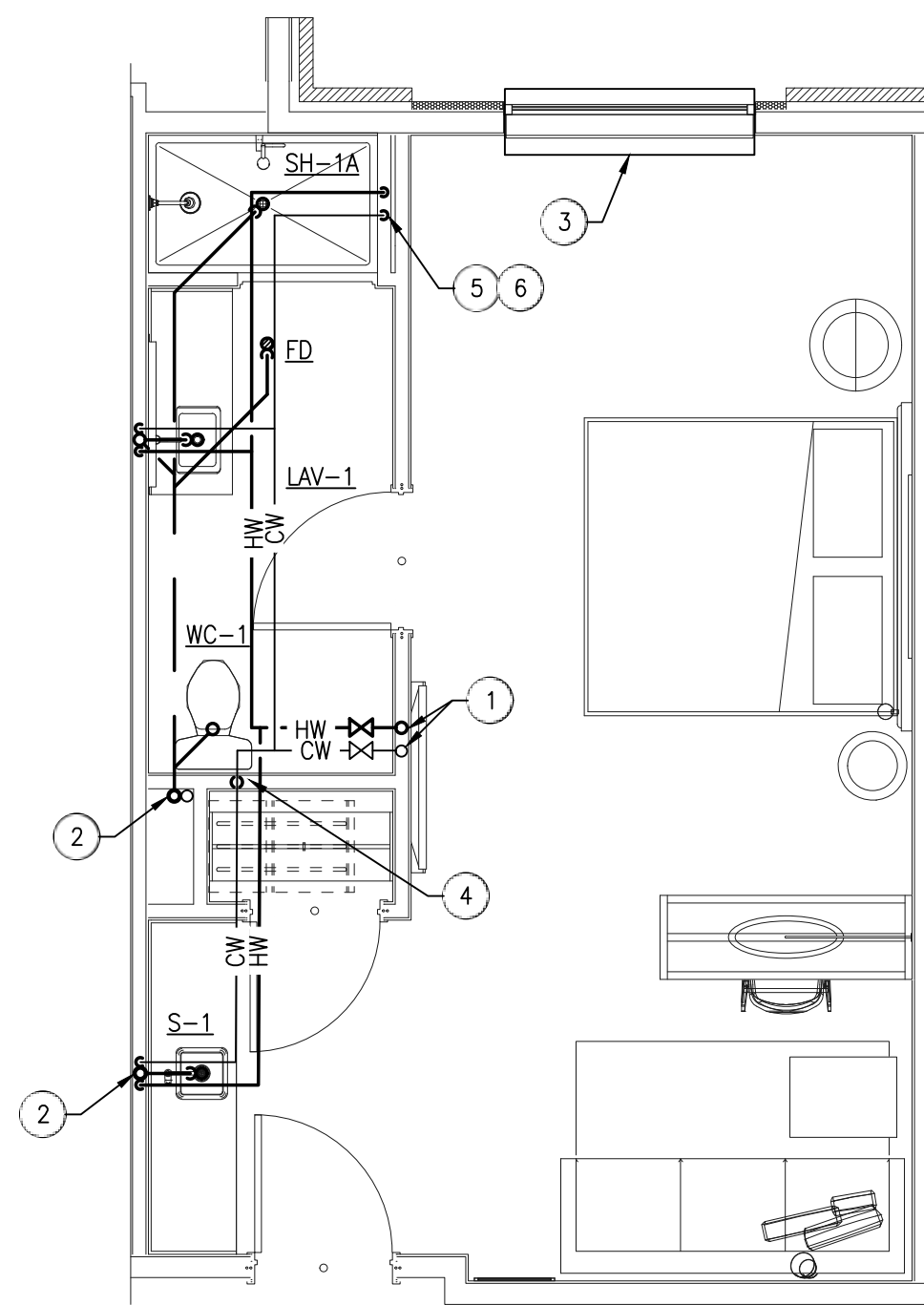
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P2.1
ADA DOUBLE QUEEN SUITE PLUMBING PLAN
1/4" = 1'-0"



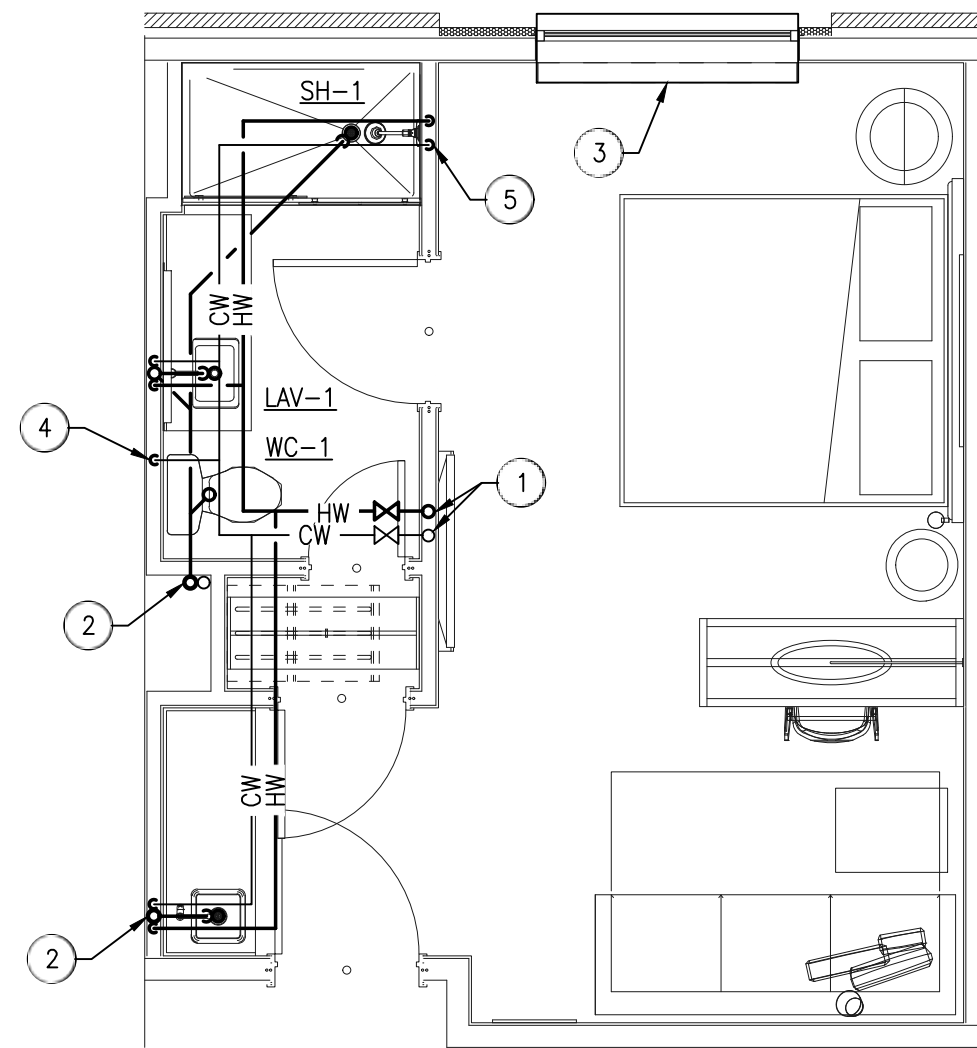
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P2.1
DOUBLE QUEEN SUITE
EXTENDED PLUMBING PLAN
1/4" = 1'-0"



3
P2.1
DOUBLE QUEEN SUITE PLUMBING PLAN
1/4" = 1'-0"



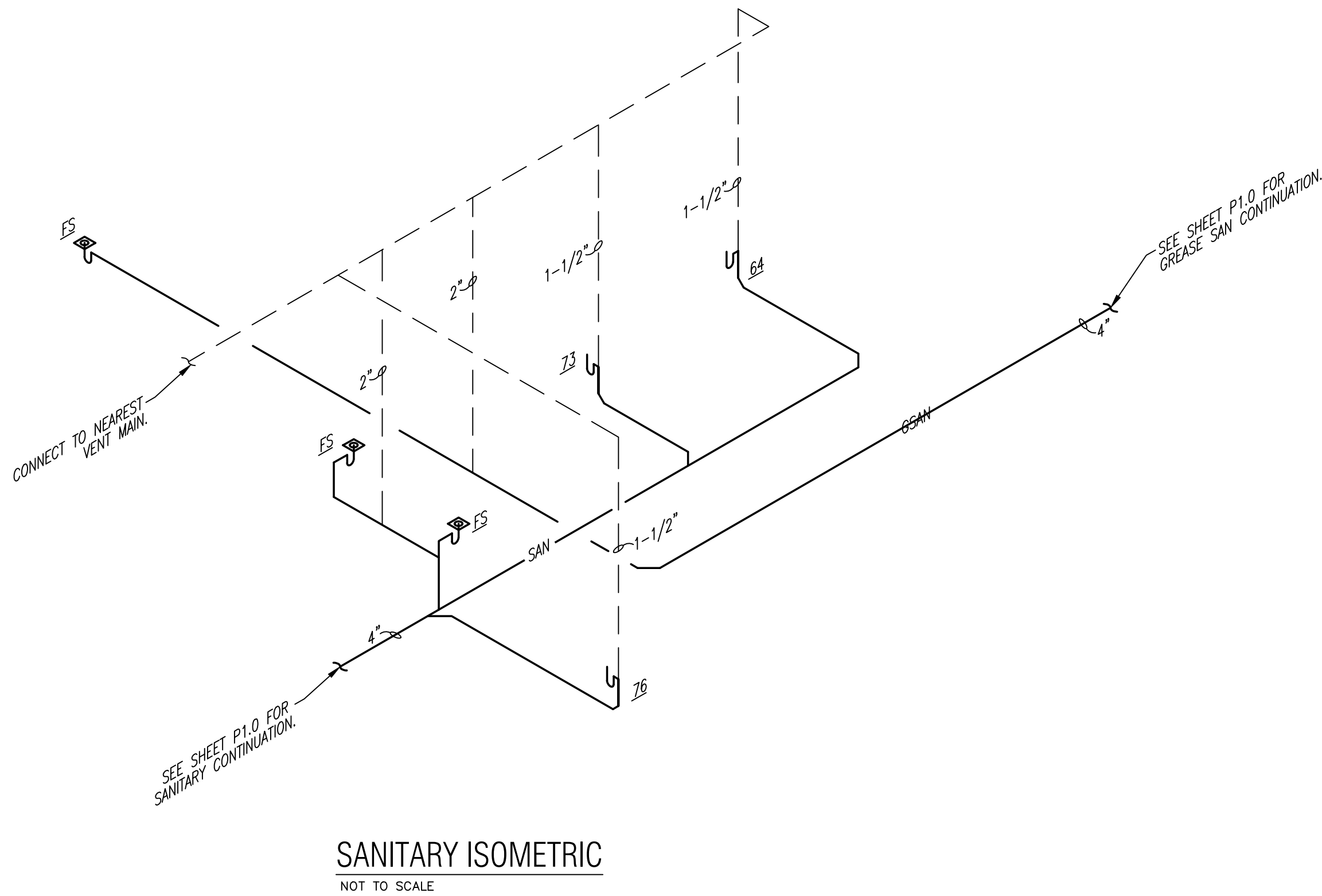
2
P2.1
ADA KING SUITE PLUMBING PLAN
1/4" = 1'-0"



1
P2.1
KING SUITE PLUMBING PLAN
1/4" = 1'-0"

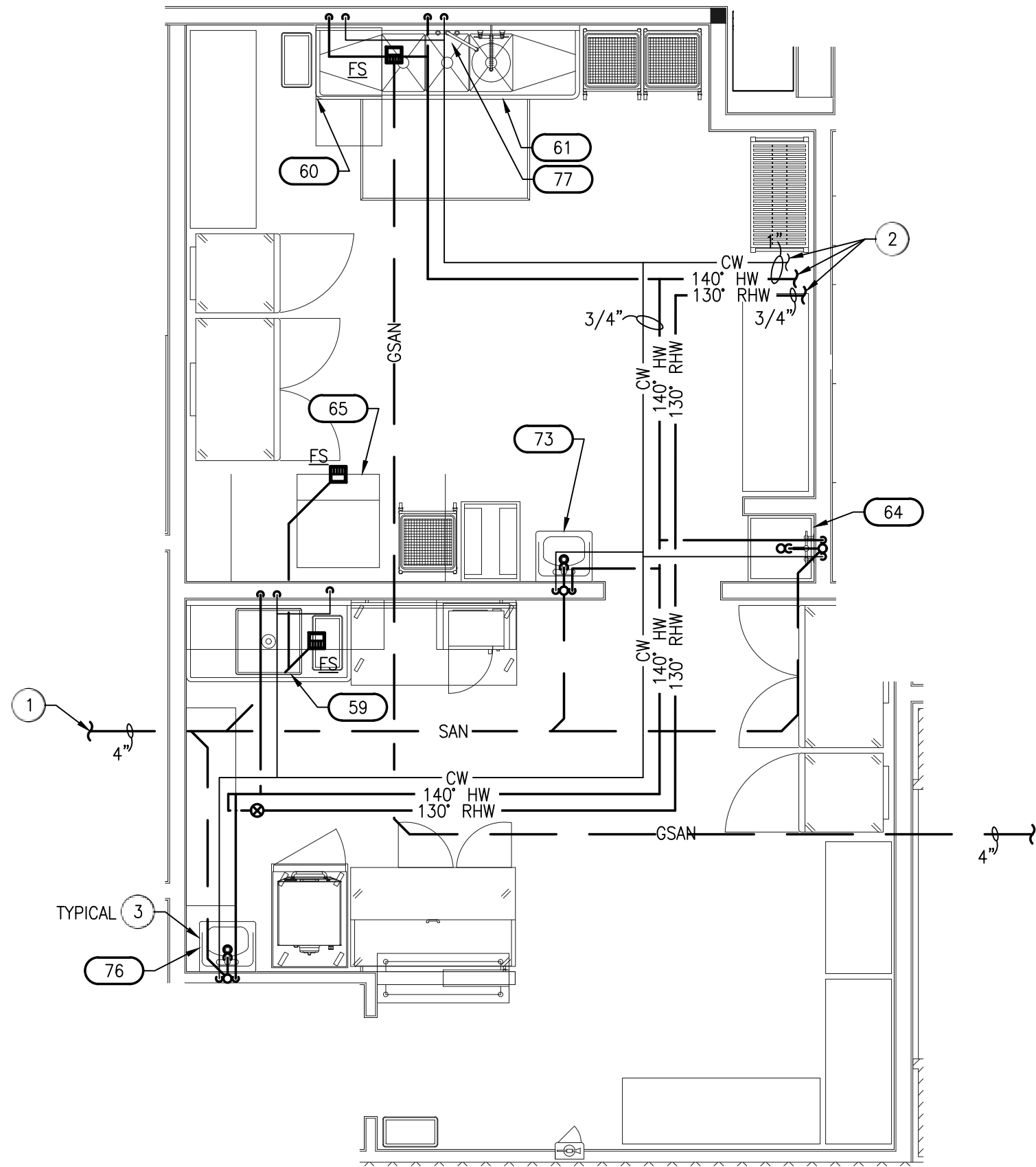
CODED NOTES:

- 1 LOCATION OF 3/4" HW AND CW ENTRY TO UNIT. SEE WATER RISER DIAGRAM ON DRAWING #P0.02 FOR ADDITIONAL INFORMATION. EXTEND TO PLUMBING FIXTURES AS INDICATED. PROVIDE HW AND CW SHUTOFFS IN BATHROOM CEILING. LOCATE SHUTOFFS SUCH THAT THEY ARE NOT DIRECTLY ABOVE THE WATER CLOSET AND THEY ARE ACCESSIBLE. PROVIDE ACCESS PANEL.
- 2 LOCATION OF SANITARY AND VENT STACK. SEE SANITARY STACK DIAGRAM ON DRAWING #P0.02 FOR ADDITIONAL INFORMATION. EXTEND TO PLUMBING FIXTURE AS INDICATED.
- 3 LOCATION OF HVAC UNIT WITH SUB-BASE KIT. COORDINATE EXACT LOCATION WITH MECHANICAL PLANS. EXTEND 3/4" CONDENSATE DOWN IN NEAREST WALL AND DOWN TO GROUND FLOOR TO DISCHARGE TO EXTERIOR WITH A 90 DEGREE ELBOW TURNED DOWN.
- 4 MOUNT GUESTROOM WATER CLOSET SUPPLIES AT 10" A.F.F.
- 5 COORDINATE FINAL LOCATION OF SHOWER CONTROLS WITH ARCHITECTURAL DRAWINGS.
- 6 PROVIDE HAND HELD SHOWER HEAD, FIXED SHOWER HEAD, DIVERTER VALVE, AND TEMPERATURE CONTROL VALVE FOR ADA SHOWER. SEE PLUMBING FIXTURE CONNECTION SCHEDULE ON SHEET #P0.03 FOR DETAILS.



CODED NOTES:

- ① INCOMING SANITARY FROM HALLWAY. SEE SHEET #P1.0 FOR CONTINUATION.
- ② INCOMING COLD WATER, 140°F HOT WATER, AND 130°F HOT WATER RECIRCULATION PIPES FROM WATER HEATER ROOM. SEE SHEETS P1.1 FOR CONTINUATION.
- ③ PROVIDE MIXING VALVES FOR KITCHEN SINKS.



1
P2.2

FOOD PREP AND BUFFET ENLARGED PLUMBING PLAN
1/4" = 1'-0"

EQUIPMENT SCHEDULE						
ITEM NO	QTY	EQUIPMENT CATEGORY	CW	HW	INDIRECT WASTE	DIRECT WASTE
59	1	FOOD PREP SINK W DRAINBOARDS	1/2	1/2	FS	—
60	1	WAREWASHER, UNDERCOUNTER, HIGH TEMP	1/2	1/2	FS	—
61	1	THREE COMPARTMENT SS SINK WITH DRAINBOARDS	1/2	1/2	FS	—
64	1	MOPSINK	1/2	1/2	—	1-1/2
65	1	ICE MAKER W BIN	1/2	—	FS	—
73	1	HAND SINK W EYE WASH ATTACHMENT	1/2	1/2	—	1-1/2
76	1	HAND SINK	1/2	1/2	—	1-1/2
77	1	PRE-RINSE UNIT: 8" WALL MOUNT MIXING FAUCET	1/2	1/2	—	—

COMMON AREA VENTILATION CALCULATION (FU/CU-1)													
SPACE	QUANTITY	AREA	PEOPLE	PLUMBING FIXTURES	OUTDOOR AIR REQUIREMENTS		EXHAUST AIR REQUIREMENTS		REQUIRED OUTSIDE AIR PER ROOM	REQUIRED EXHAUST AIR PER ROOM	REQUIRED OUTSIDE AIR TOTAL	REQUIRED EXHAUST AIR TOTAL	EFFECTIVENESS SS .8
					CFM/PERSON	CFM/SQ. FT.	CFM/FIXTURE	CFM/SQ. FT.					
108A LAUNDRY	1	475	5	6	5	0.12	25	0	82.0	150	82.0	0	102.5
108B LINEN STORAGE	1	62	1	0	5	0.12	0	0	12.4	0	12.4	0	15.6
108C DRYER ENCLOSURE	1	70	0	0	0	.06	0	0	4.2	0	4.2	0	5.3
109A EMPLOYEE BREAKROOM	1	163	4	1	5	.06	25	0	29.8	25	29.8	0	37.2
TOTALS									128.4	175.0	128.4	0.0	160.5

COMMON AREA VENTILATION CALCULATION (FU/CU-2)													
SPACE	QUANTITY	AREA	PEOPLE	PLUMBING FIXTURES	OUTDOOR AIR REQUIREMENTS		EXHAUST AIR REQUIREMENTS		REQUIRED OUTSIDE AIR PER ROOM	REQUIRED EXHAUST AIR PER ROOM	REQUIRED OUTSIDE AIR TOTAL	REQUIRED EXHAUST AIR TOTAL	EFFECTIVENESS SS .8
					CFM/PERSON	CFM/SQ. FT.	CFM/FIXTURE	CFM/SQ. FT.					
106A MANAGER	1	87	1	0	5	0.06	0	0	10.2	0	10.2	0	12.8
106B SALES	1	87	2	0	7.5	0.12	0	0	25.4	0	25.4	0	31.8
110 GUEST LAUNDRY	1	134	2	2	5	.12	75	0	26.1	150	26.1	0	32.6
111A WOMEN'S TOILET	1	121	0	3	0	0	25	0	0.0	75	0.0	0	0.0
138 CORRIDOR	1	587	0	0	0	0	0	0	0.0	0	0.0	0	0.0
TOTALS									61.7	225.0	61.7	0.0	77.2

COMMON AREA VENTILATION CALCULATION (FU/CU-3)													
SPACE	QUANTITY	AREA	PEOPLE	PLUMBING FIXTURES	OUTDOOR AIR REQUIREMENTS		EXHAUST AIR REQUIREMENTS		REQUIRED OUTSIDE AIR PER ROOM	REQUIRED EXHAUST AIR PER ROOM	REQUIRED OUTSIDE AIR TOTAL	REQUIRED EXHAUST AIR TOTAL	EFFECTIVENESS SS.8
					CFM/PERSON	CFM/SQ. FT.	CFM/FIXTURE	CFM/SQ. FT.					
112 FITNESS CENTER	1	825	8	0	20	0.06	0	0	209.5	0.0	209.5	0	261.9
TOTALS									209.5	0.0	209.5	0.0	261.9

COMMON AREA VENTILATION CALCULATION (FU/CU-4)													
SPACE	QUANTITY	AREA	PEOPLE	PLUMBING FIXTURES	OUTDOOR AIR REQUIREMENTS		EXHAUST AIR REQUIREMENTS		REQUIRED OUTSIDE AIR PER ROOM	REQUIRED EXHAUST AIR PER ROOM	REQUIRED OUTSIDE AIR TOTAL	REQUIRED EXHAUST AIR TOTAL	EFFECTIVENESS
					CFM/PERSON	CFM/SQ. FT.	CFM/FIXTURE	CFM/SQ. FT.					
107A PANTRY	1	327	0	0	0	0.06	0	0	19.6	0	19.6	0	24.5
107B SCULLERY AND STORAGE	1	310	0	5	0	0.06	0	0	18.6	0	18.6	0	23.3
TOTALS									38.2	0.0	38.2	0.0	47.8

COMMON AREA VENTILATION CALCULATION (FU/CU-5)													
SPACE	QUANTITY	AREA	PEOPLE	PLUMBING FIXTURES	OUTDOOR AIR REQUIREMENTS		EXHAUST AIR REQUIREMENTS		REQUIRED OUTSIDE AIR PER ROOM	REQUIRED EXHAUST AIR PER ROOM	REQUIRED OUTSIDE AIR TOTAL	REQUIRED EXHAUST AIR TOTAL	EFFECTIVENESS SS .8
					CFM/PERSON	CFM/SQ. FT.	CFM/FIXTURE	CFM/SQ. FT.					
103A DINING	1	500	20	0	7.5	0.18	0	0	240.0	0	240.0	0	300.0
103B BAR	1	194	19	5	7.5	0.18	25	0	177.4	125	177.4	0	221.8
105A RECEPTION	1	160	5	0	5	.06	0	0	34.6	0	34.6	0	43.3
TOTALS									452.0	125.0	452.0	0.0	565.0

COMMON AREA VENTILATION CALCULATION (FU/CU-6)													
SPACE	QUANTITY	AREA	PEOPLE	PLUMBING FIXTURES	OUTDOOR AIR REQUIREMENTS		EXHAUST AIR REQUIREMENTS		REQUIRED OUTSIDE AIR PER ROOM	REQUIRED EXHAUST AIR PER ROOM	REQUIRED OUTSIDE AIR TOTAL	REQUIRED EXHAUST AIR TOTAL	EFFECTIVENESS SS .8
					CFM/PERSON	CFM/SQ. FT.	CFM/FIXTURE	CFM/SQ. FT.					
100 ELEVATOR LOBBY	1	230	7	0	7.5	0.06	0	0	66.3	0	66.3	0	82.9
101B ENTRY	1	454	14	0	7.5	0.06	0	0	132.2	0	132.2	0	165.3
102 WORK/SOCIAL	1	307	14	0	7.5	.06	0	0	123.4	0	123.4	0	154.3
104 MARKET	1	311	5	6	7.5	.12	0	0	74.8	0	74.8	0	93.5
TOTALS									396.8	0.0	396.8	0.0	496.0

COMMON AREA VENTILATION CALCULATION (FU/CU-7)													
SPACE	QUANTITY	AREA	PEOPLE	PLUMBING FIXTURES	OUTDOOR AIR REQUIREMENTS		EXHAUST AIR REQUIREMENTS		REQUIRED OUTSIDE AIR PER ROOM	REQUIRED EXHAUST AIR PER ROOM	REQUIRED OUTSIDE AIR TOTAL	REQUIRED EXHAUST AIR TOTAL	EFFECTIVENESS SS.8
					CFM/PERSON	CFM/SQ. FT.	CFM/FIXTURE	CFM/SQ. FT.					
102 WORK/SOCIAL	1	509	16	0	7.5	0.06	0	0	150.5	0	150.5	0	188.2
200 ELEVATOR LOBBY	1	214	7	0	7.5	0.06	0	0	65.3	0	65.3	0	81.7
TOTALS									215.9	0.0	215.9	0.0	269.9

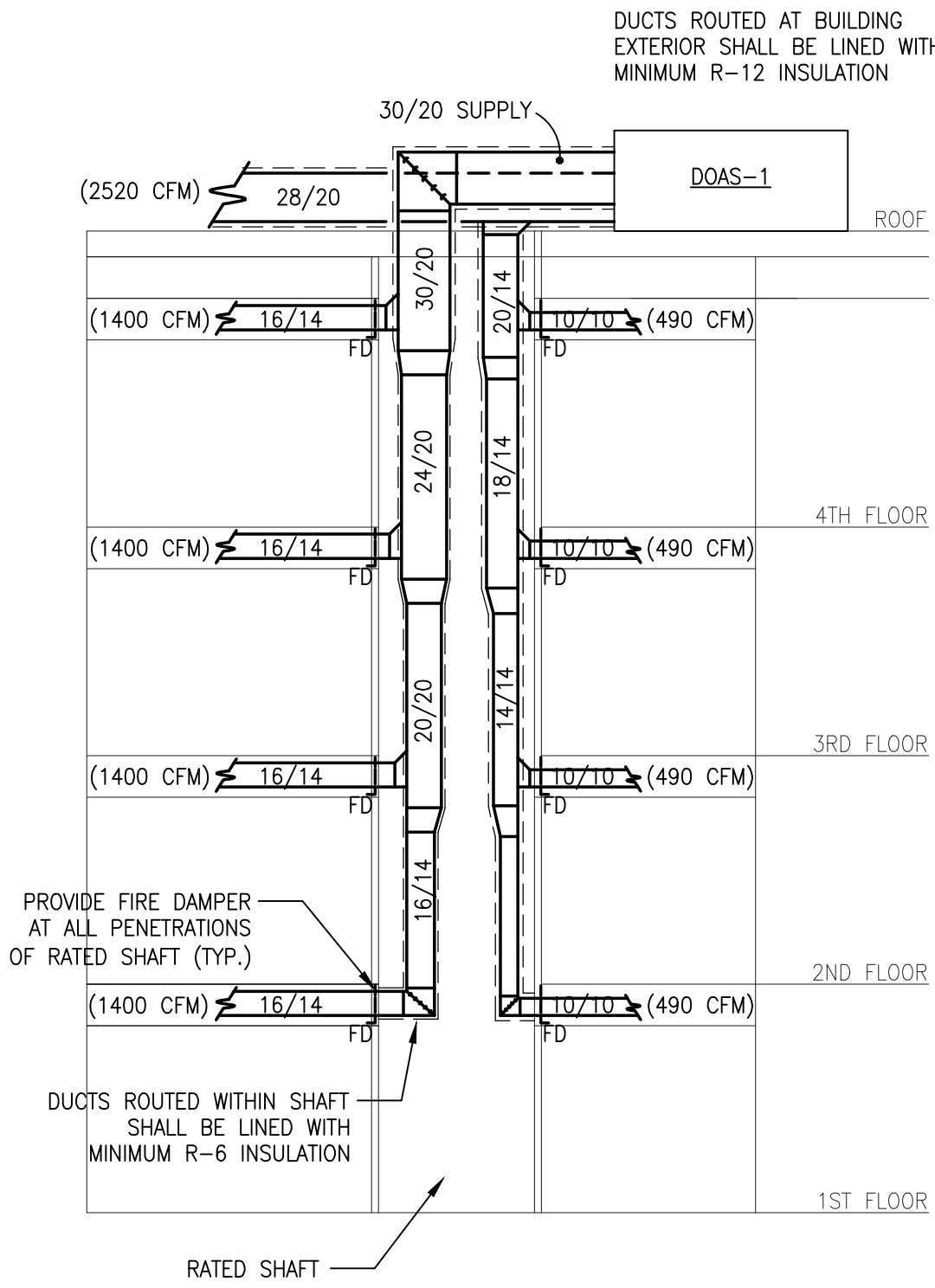
COMMON AREA VENTILATION CALCULATION (FU/CU-8)													
SPACE	QUANTITY	AREA	PEOPLE	PLUMBING FIXTURES	OUTDOOR AIR REQUIREMENTS		EXHAUST AIR REQUIREMENTS		REQUIRED OUTSIDE AIR PER ROOM	REQUIRED EXHAUST AIR PER ROOM	REQUIRED OUTSIDE AIR TOTAL	REQUIRED EXHAUST AIR TOTAL	EFFECTIVENESS SS.8
201 COMMON	1	1103	23	0	7.5	0.06	0	0	238.7	0	238.7	0	298.4
203 STUDY	1	219	8	0	7.5	0.06	0	0	73.1	0	73.1	0	91.4
TOTALS									311.8	0.0	311.8	0.0	389.8

DEDICATED OUTSIDE AIR UNIT WITH HEAT RECOVERY SCHEDULE																								
				Design Conditions			Supply Fan					COIL (DB/WB)				Electrical			Heating Section					
Mark	Name	Model	Mounting Location	Weight	Summer T °F ±4% Evap	Winter T °F db	Outdoor Air Volume	Exhaust Air Volume	Cooling Cap. Total/Sens.	E.S.P. GA/EXH	Supply Motor	Exhaust Motor	EAT (°F)	LAT (°F)	Voltage	Frequency	Phase	Unit MCA	Unit MOP	Gas Type	Input	Output	Furnace Control	Options
DOAS-1		RVE-85-52D-20I-M-DI	ROOF	4928	83.5	76.8	5600	4480	289.1/168.4	1/1	5	5	81.1/69.6	53.8/53.7	208	60	3	111.4	125	NATURAL	400	320	15:1	1-22
DOAS-2		RVE-85-52D-20I-M-DI	ROOF	4928	83.5	76.8	5600	4480	289.1/168.4	1/1	5	5	81.1/69.6	53.8/53.7	208	60	3	111.4	125	NATURAL	400	320	15:1	1-22

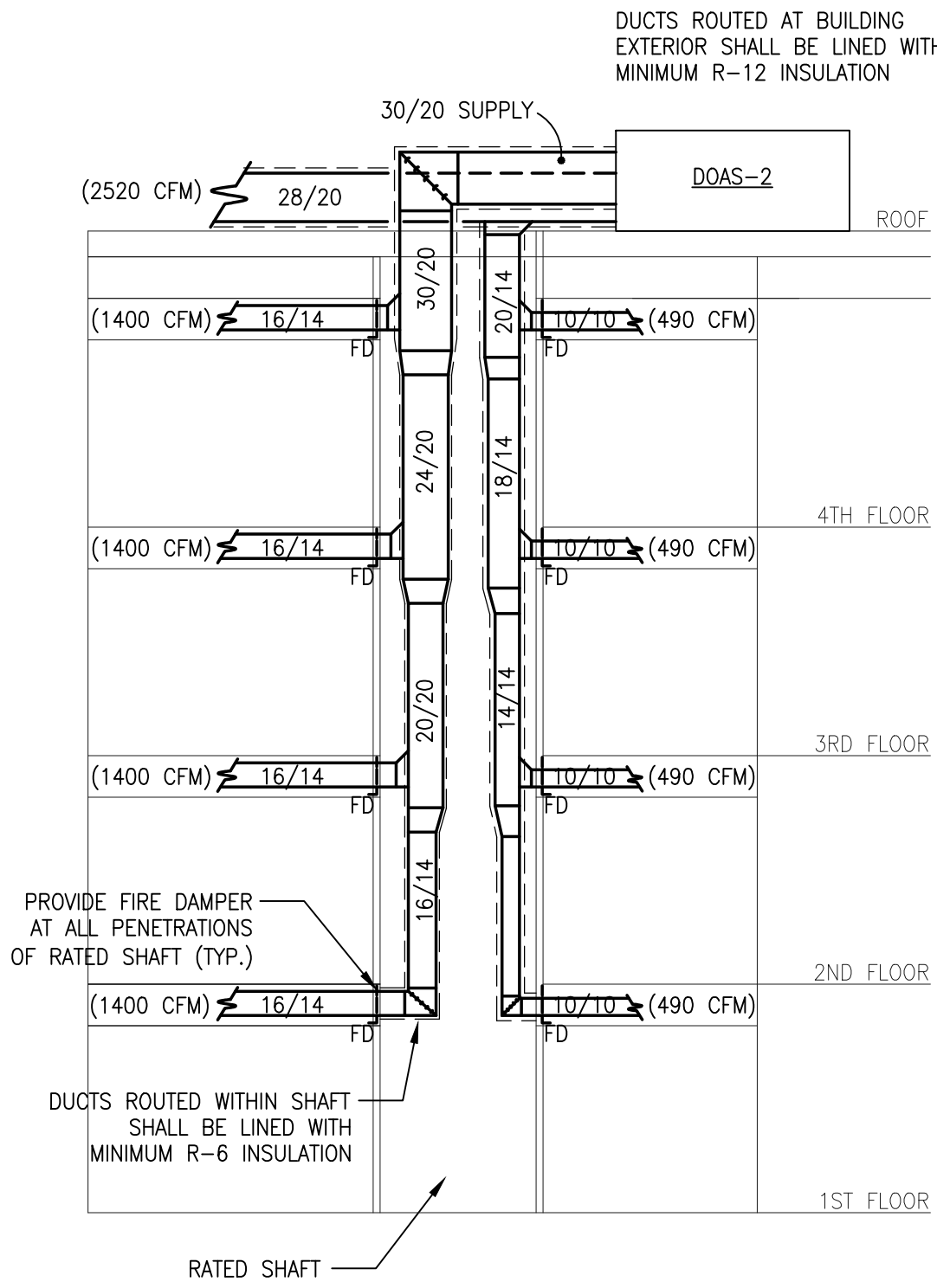
OPTIONS AND ACCESSORIES:
 1. FACTORY WIREd NON-FUSED DISCONNECT
 2. ENERGY RECOVERY DEVICE – POLYMER WHEEL
 W/ SILICA GEL DESICCANT
 3. SUPPLY FAN CONTROL – VFD – ADJUSTABLE SET POINT
 4. EXHAUST FAN CONTROL – VFD – ADJUSTABLE SET POINT
 5. ENERGY WHEEL ECONOMIZER CONTROL – STOP WHEEL
 6. ECONOMIZER CONTROL – TEMP/ENTHALPY
 7. ENERGY WHEEL ROTATION SENSOR
 8. OUTDOOR/RECULATION AIR DAMPER CONTROL – 100% OA
 9. REMOTE DISPLAY – W/ 75 FT CORD
 10. DIRTY FILTER SENSOR(S) – ALL
 11. ROOM THERMOSTAT – TEMP AND RH
 12. FROST CONTROL – TIMEd EXHAUST
 13. OUTDOOR AIR DAMPER – LOW LEAKAGE
 14. ROOF CURB – GKD – 63.74/158.9-G14
 15. SUPPLY AIR FILTERS – 2" MERV 13, 8-16x25x2
 16. DUCT SMOKE DETECTOR
 17. INVERTER COMPRESSORS
 18. ALL CONDENSER FANS ARE EC
 19. MODULATING HOT GAS REHEAT
 20. 16:1 TURNDOWN RATIO
 21. DOUBLE WALL CASINO WITH 2" INSULATION
 22. HORIZONTAL SUPPLY AND RETURN

FURNACE & CONDENSING UNIT SCHEDULE (HOTEL)																
MARK	TONNAGE	CFM	O.A.	E.S.P.	SUPPLY FAN H.P.	VOLTAGE	MCA/MOCP	COOLING CAPACITY			HEATING CAPACITY		FURNACE MANUFACTURER & MODEL NO.	CONDENSING UNIT MANUFACTURER & MODEL NO.	EVAPORATOR COIL MANUFACTURER & MODEL NO.	REMARKS
								TOTAL	SENS.	S.E.E.R.	MBH INPUT	MBH OUTPUT				
FU/CU-1	3	1200	180	0.5	1/2	F: 120V-1ϕ CU: 208V-1ϕ	F: 7.7/15 CU: 20.8/30	36	30	15	66	62	LENNOX ML296UH045XV36B	LENNOX 16ACX-036-230	F: LENNOX CX35-36B-6F	1-12
FU/CU-2	2	800	100	0.5	1/2	F: 120V-1ϕ CU: 208V-1ϕ	F: 7.7/15 CU: 15.6/20	24	18	15	44	42	LENNOX ML296UH045XV36B	LENNOX 16ACX-024-230	LENNOX CX35-24B-6F	1-12
FU/CU-3	4	1600	300	0.5	3/4	F: 120V-1ϕ CU: 208V-1ϕ	F: 10.1/15 CU: 29.2/40	48	40	15	88	84	LENNOX ML296UH090XV48C	LENNOX 16ACX-048-230	LENNOX CX35-48C-F	1-12
FU/CU-4	3	1200	100	0.5	1/2	F: 120V-1ϕ CU: 208V-1ϕ	F: 7.7/15 CU: 20.8/30	36	30	15	66	62	LENNOX ML296UH070XV36B	LENNOX 16ACX-036-230	LENNOX CX35-36B-6F	1-11,13
FU/CU-5	5	2000	600	0.5	1	F: 120V-1ϕ CU: 208V-1ϕ	F: 12.8/20 CU: 35.7/50	53	48	15	88	84	LENNOX ML296UH110XV60C	LENNOX 16ACX-060-230	LENNOX CX35-60C-F	1-11,13
FU/CU-6	5	2000	500	0.5	1	F: 120V-1ϕ CU: 208V-1ϕ	F: 12.8/20 CU: 35.7/50	53	48	15	88	84	LENNOX ML296UH110XV60C	LENNOX 16ACX-060-230	LENNOX CX35-60C-F	1-11,13
FU/CU-7	5	2000	300	0.5	1	F: 120V-1ϕ CU: 208V-1ϕ	F: 12.8/20 CU: 35.7/50	53	48	15	88	84	LENNOX ML296UH110XV60C	LENNOX 16ACX-060-230	LENNOX CX35-60C-F	1-12
FU/CU-8	5	2000	400	0.5	1	F: 120V-1ϕ CU: 208V-1ϕ	F: 12.8/20 CU: 35.7/50	53	48	15	88	84	LENNOX ML296UH110XV60C	LENNOX 16ACX-060-230	LENNOX CX35-60C-F	1-12

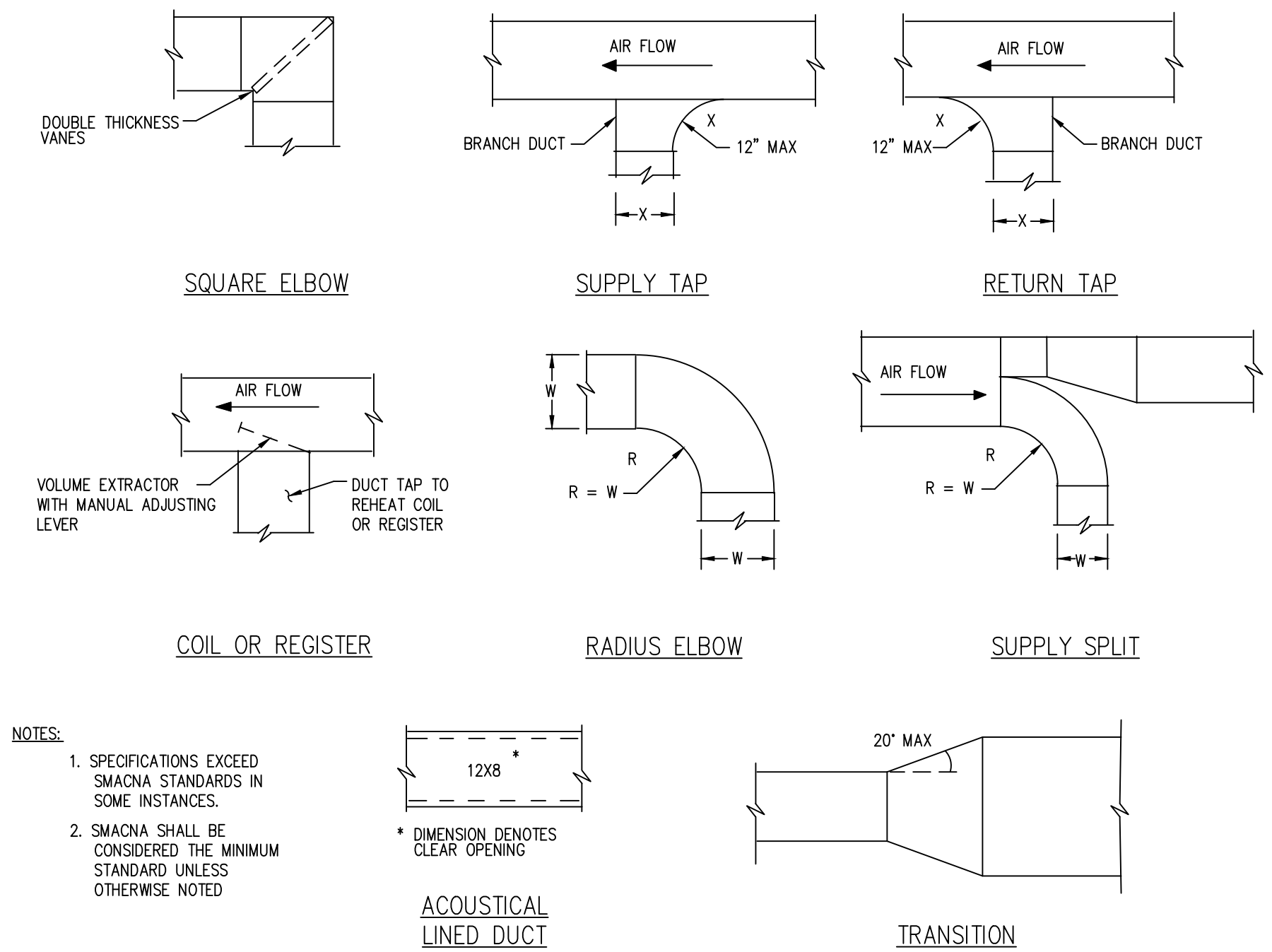
REMARKS:
 1. CRANKCASE HEATER
 2. CYCLE PROTECTOR
 3. R-410A REFRIGERANT
 4. RETURN AIR FILTERS
 5. ENERGY STAR COMPLIANT
 6. CONCENTRIC VENT KIT
 7. WIREd ENERGY MANAGEMENT THERMOSTAT
 TELONEIT, INCOM, OR EQUAL
 8. 5-YEAR COMPRESSOR WARRANTY
 9. CARRIER AND TRANE ARE APPROVED EQUALS
 10. PROVIDE WITH LONG LINE KIT
 11. MERV 13 FILTERS



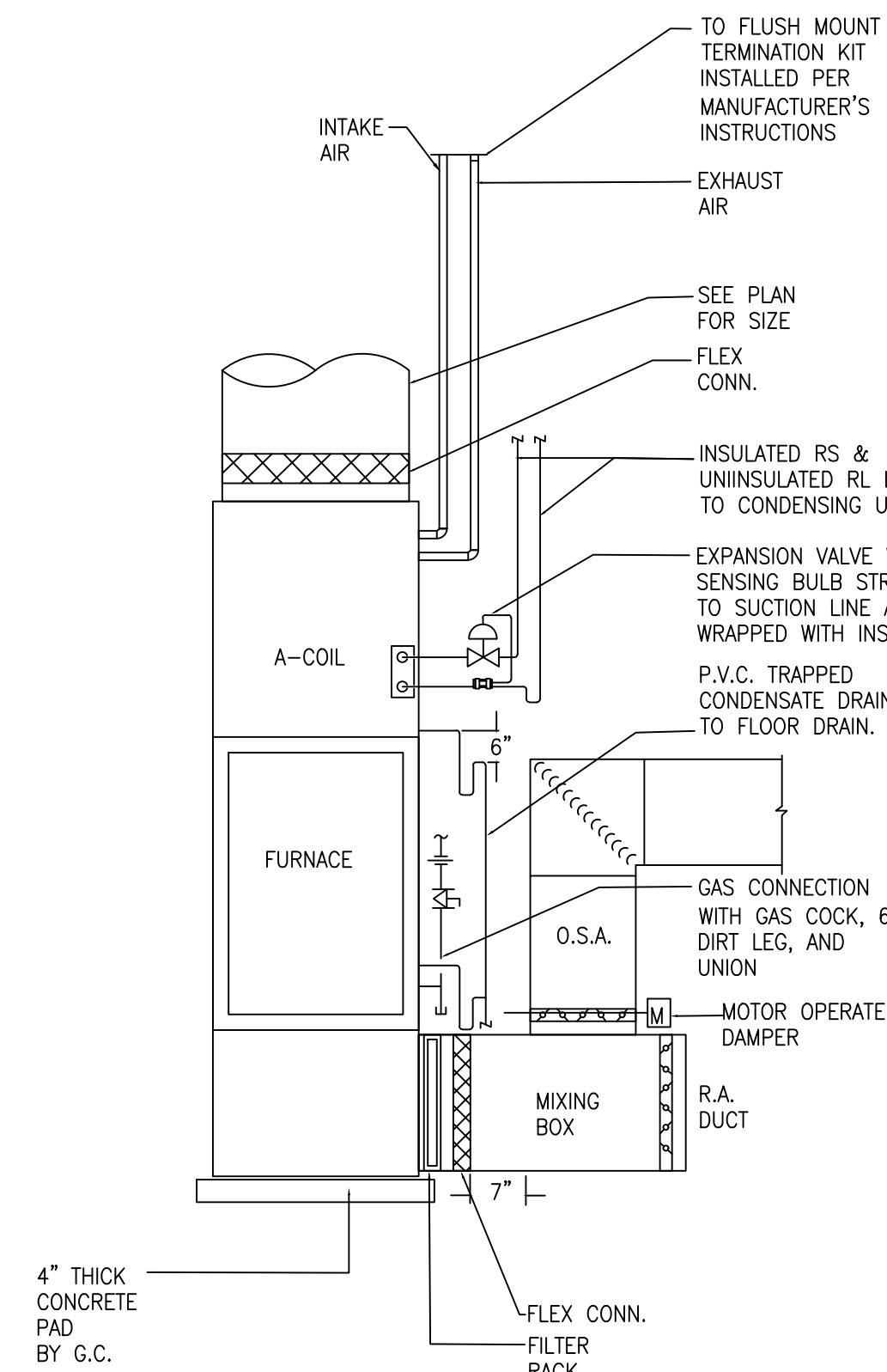
DOAS-1 SUPPLY AND EXHAUST RISER DIAGRAM
NO SCALE



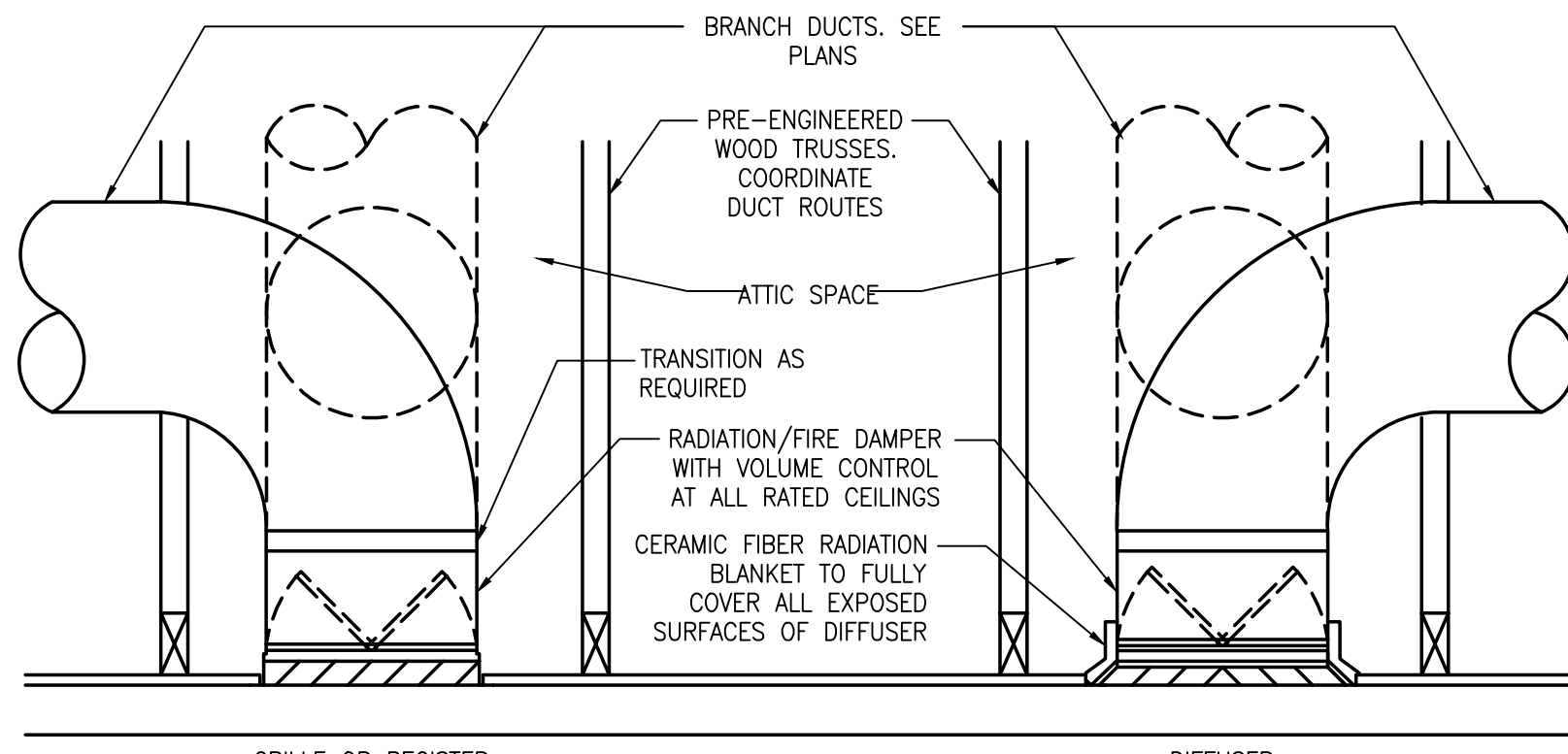
DOAS-2 SUPPLY AND EXHAUST RISER DIAGRAM
NO SCALE



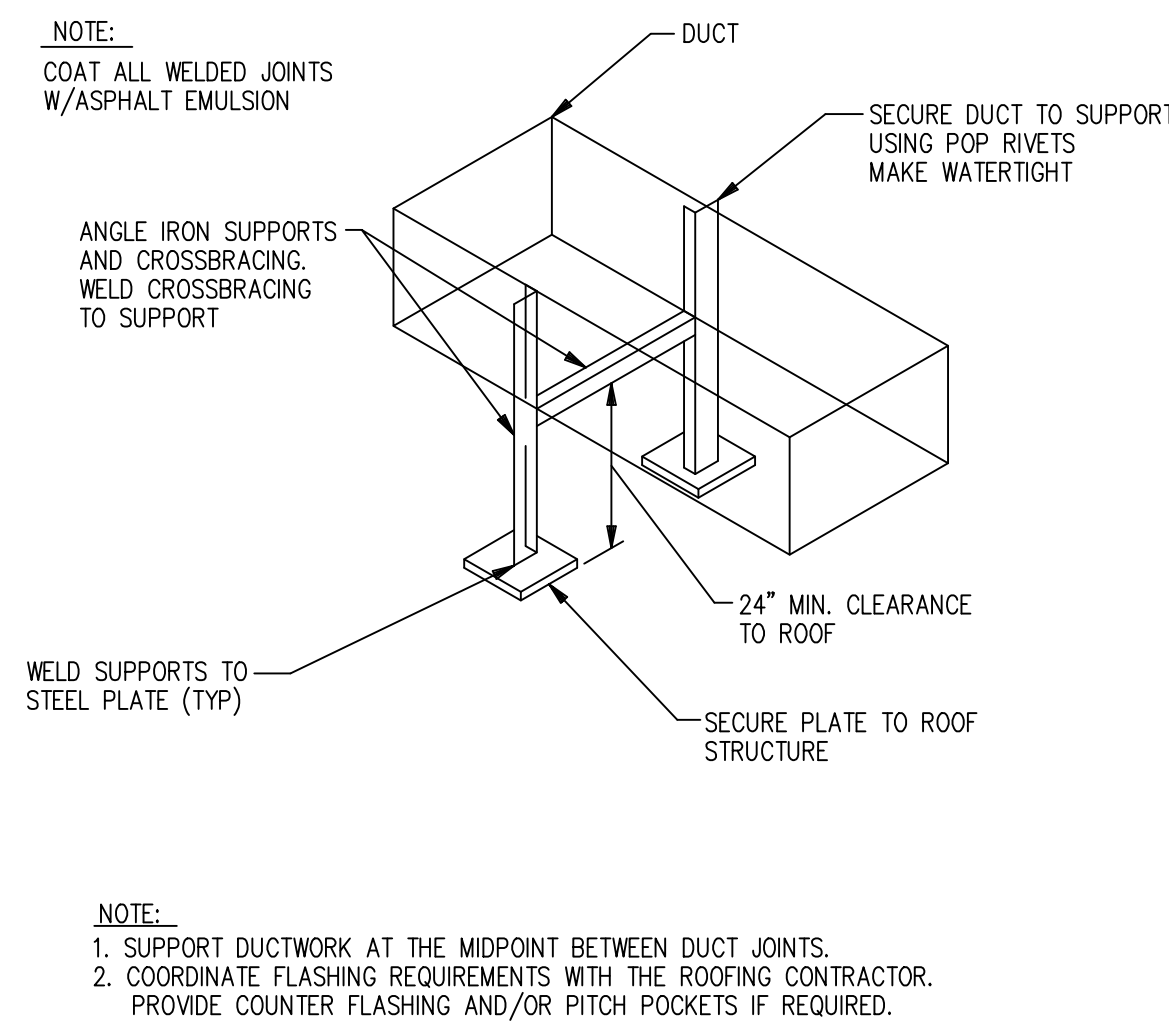
DUCT CONSTRUCTION
NO SCALE



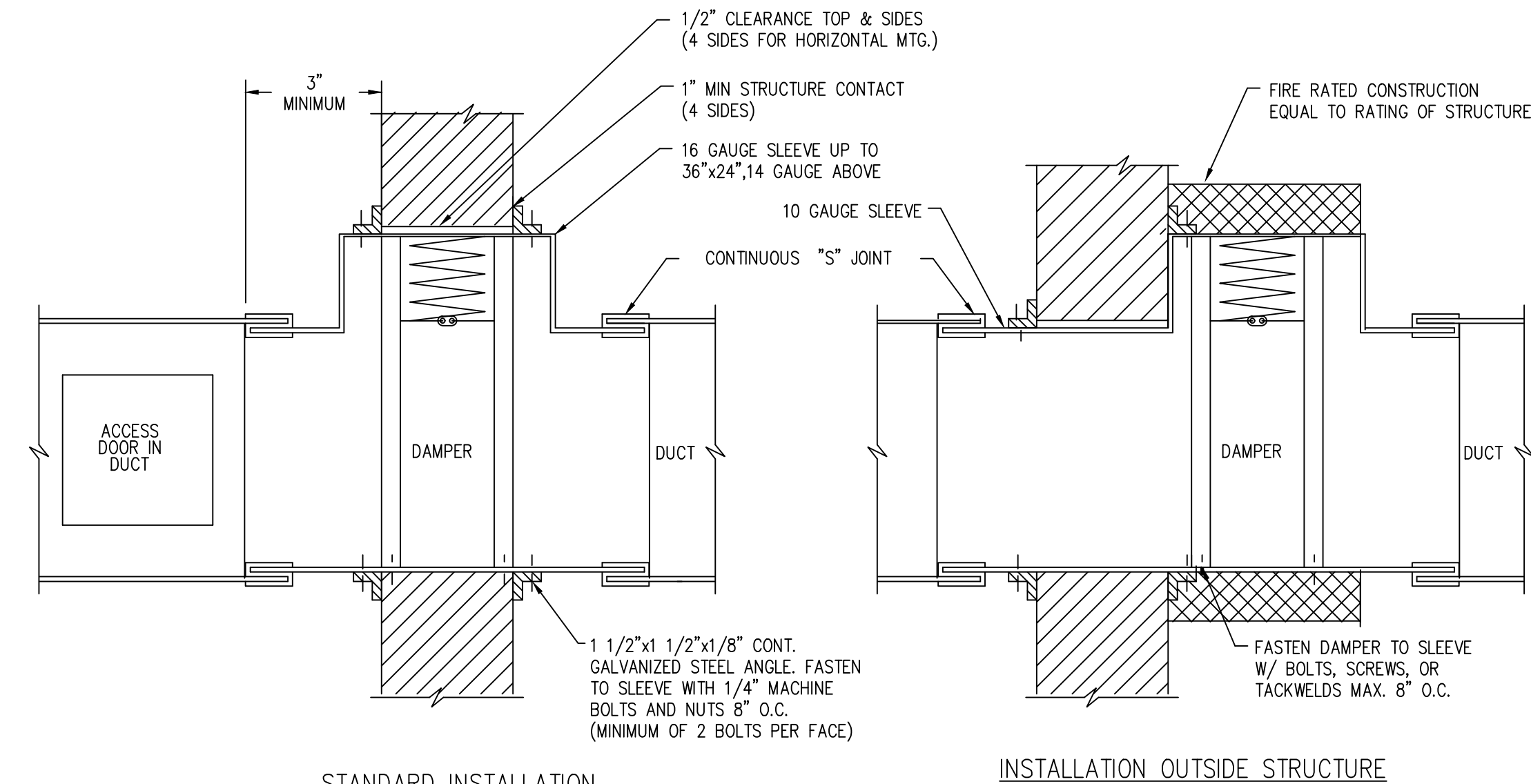
FURNACE DETAIL
N.T.S.



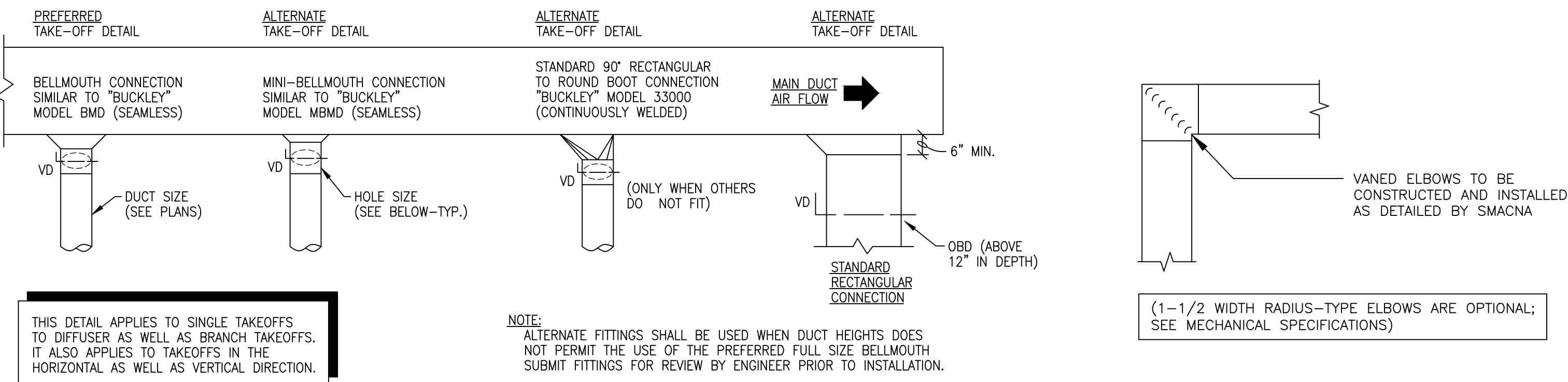
RADIATION/FIRE DAMPER INSTALLATION
NO SCALE



RECTANGULAR DUCT SUPPORT ON ROOF
NO SCALE

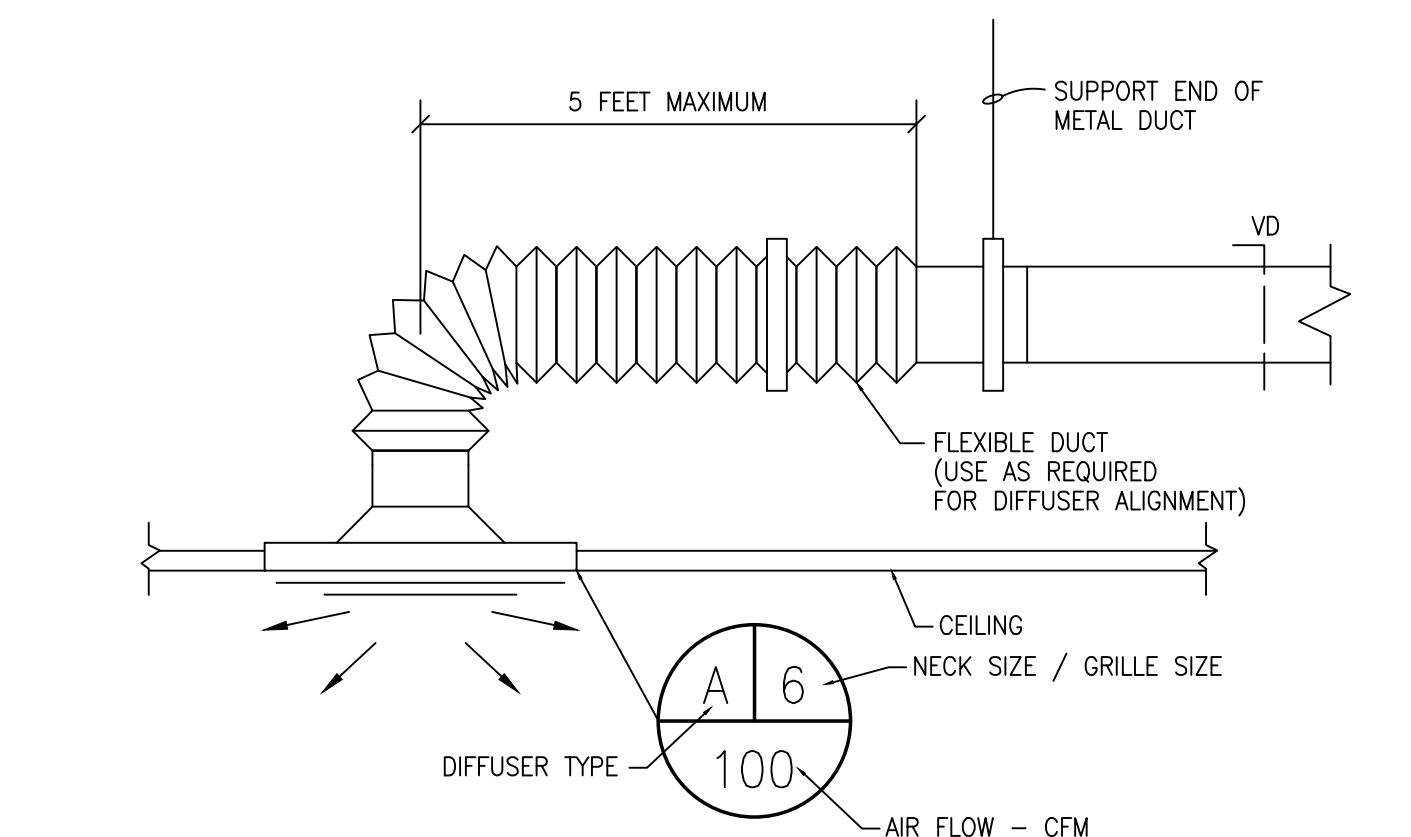


FIRE DAMPER MOUNTING
NO SCALE

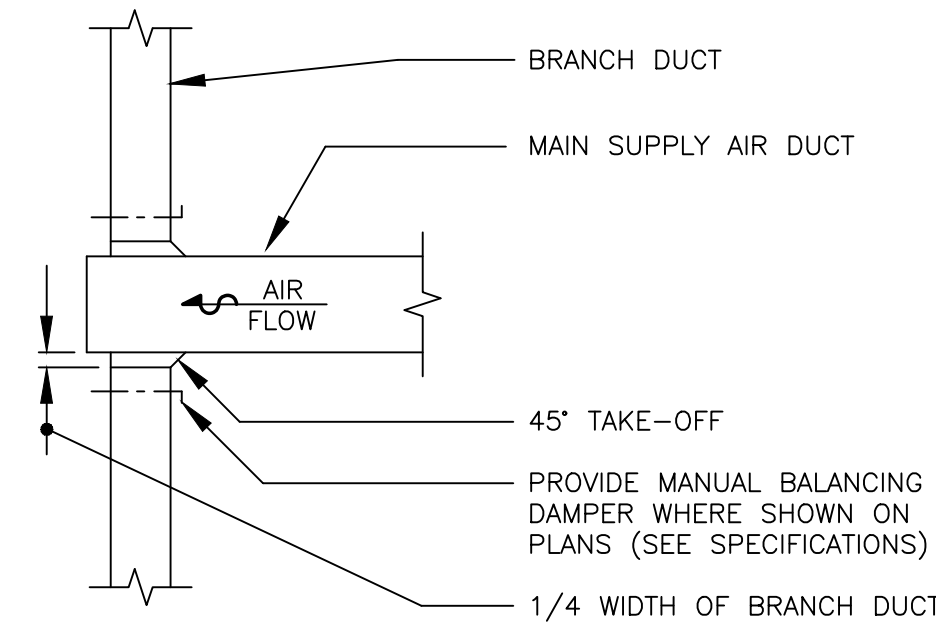


DUCT TAKEOFFS
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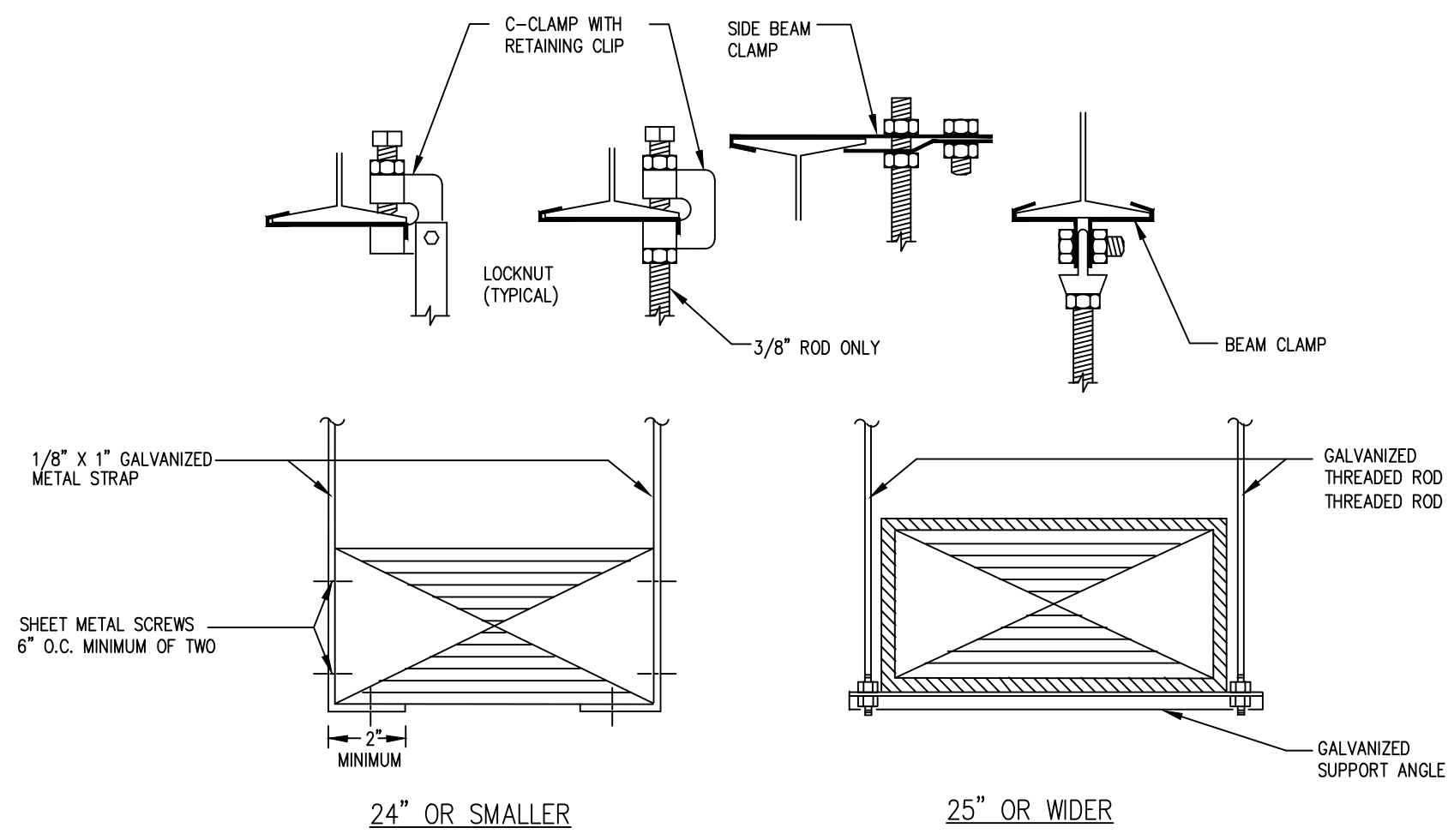
LOW PRESSURE DUCT ELBOW DETAIL
N.T.S.



CEILING DIFFUSER BRANCH DUCTS W/ FLEX CONNECTION
NO SCALE



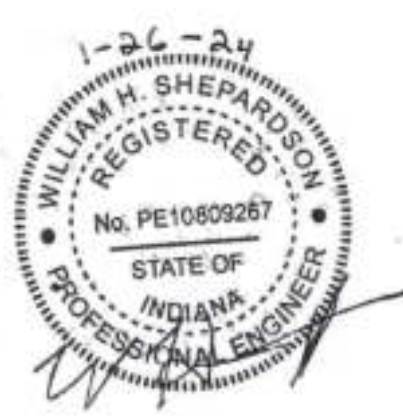
LOW PRESSURE END OF SUPPLY AIR DUCT DETAIL
N.T.S.



DUCT WIDTH	ROD DIA.	SUPPORT ANGLE OR EQUIV. CHANNEL	MAXIMUM SPACING	MAXIMUM AREA
25" TO 30"	3/8"	1 1/2" x 1 1/2" x 1/8"	6'-0" O.C.	4 SQ. FT.
31" TO 42"	3/8"	1 1/2" x 1 1/2" x 1/8"	6'-0" O.C.	10 SQ. FT.
43" TO 60"	1/2"	1 1/2" x 1 1/2" x 1/8"	6'-0" O.C.	10 SQ. FT.
61" TO 84"	1/2"	2" x 2" x 1/4"	4'-0" O.C.	-----
85" AND UP	1/2"	2" x 2" x 1/4"	4'-0" O.C.	-----

* REDUCE SPACING TO NEXT SMALLER INTERVAL IF DUCT AREA EXCEEDS MAXIMUM

DUCT SUPPORT
NO SCALE



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ATWELL SUITES
AN IHG HOTEL
ERLEN DR. & MINDEN DR. FISHERS, INDIANA 46037 HAMILTON COUNTY
MECHANICAL DETAILS

ISSUE / REVISION DATE:
05/04/2022 OWNER REVIEW
06/23/2022 OWNER REVIEW
08/04/2022 PRELIMINARY REVIEW
01/13/2023 FRANCHISE REVIEW
04/21/2023 FRANCHISE REVIEW
05/17/2023 SAXONY DESIGN REVIEW 1
09/19/2023 HIG FINAL REVIEW
11/17/2023 SAXONY DESIGN REVIEW 2
• 01/26/2024 FOR CONSTRUCTION

SMR Project No. **AWSFIN**

M0.3



West 25th Street, Suite 200
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MECHANICAL PLAN



M1.0



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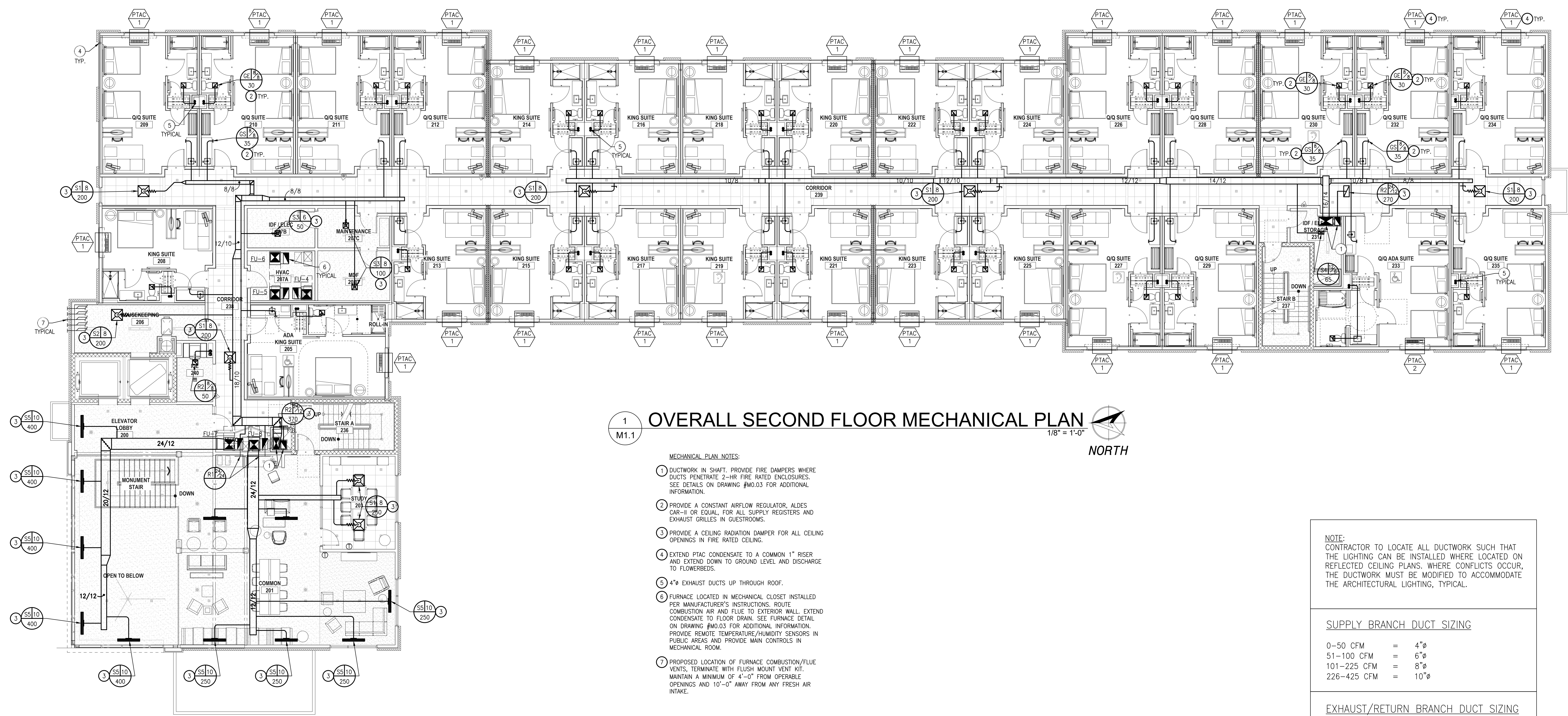
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ATWELL SUITES
AN IHG HOTEL

ERLEN DR. & MINDEN DR. FISHERS, INDIANA 46037 HAMILTON COUNTY

OVERALL SECOND FLOOR
MECHANICAL PLAN



1
M1.1

OVERALL SECOND FLOOR MECHANICAL PLAN

1/8" = 1'-0" NORTH

- MECHANICAL PLAN NOTES:
- DUCTWORK IN SHAFT. PROVIDE FIRE DAMPERS WHERE DUCTS PENETRATE 2-HR FIRE RATED ENCLOSURES. SEE DETAILS ON DRAWING #MO.03 FOR ADDITIONAL INFORMATION.
 - PROVIDE A CONSTANT AIRFLOW REGULATOR, ALDES CAR-II OR EQUAL, FOR ALL SUPPLY REGISTERS AND EXHAUST GRILLES IN GUESTROOMS.
 - PROVIDE A CEILING RADIATION DAMPER FOR ALL CEILING OPENINGS IN FIRE RATED CEILING.
 - EXTEND PTAC CONDENSATE TO A COMMON 1" RISER AND EXTEND DOWN TO GROUND LEVEL AND DISCHARGE TO FLOWBERDS.
 - 4"Ø EXHAUST DUCTS UP THROUGH ROOF.
 - FURNACE LOCATED IN MECHANICAL CLOSET INSTALLED PER MANUFACTURER'S INSTRUCTIONS. ROUTE COMBUSTION AIR AND FLUE TO EXTERIOR WALL. EXTEND CONDENSATE TO FLOOR DRAIN. SEE FURNACE DETAIL ON DRAWING #MO.03 FOR ADDITIONAL INFORMATION. PROVIDE REMOTE TEMPERATURE/HUMIDITY SENSORS IN PUBLIC AREAS AND PROVIDE MAIN CONTROLS IN MECHANICAL ROOM.
 - PROPOSED LOCATION OF FURNACE COMBUSTION/FLUE VENTS. TERMINATE WITH FLUSH MOUNT VENT KIT. MAINTAIN A MINIMUM OF 4'-0" FROM OPERABLE OPENINGS AND 10'-0" AWAY FROM ANY FRESH AIR INTAKE.

NOTE:
CONTRACTOR TO LOCATE ALL DUCTWORK SUCH THAT THE LIGHTING CAN BE INSTALLED WHERE LOCATED ON REFLECTED CEILING PLANS. WHERE CONFLICTS OCCUR, THE DUCTWORK MUST BE MODIFIED TO ACCOMMODATE THE ARCHITECTURAL LIGHTING, TYPICAL.

SUPPLY BRANCH DUCT SIZING	
0-50 CFM	= 4"Ø
51-100 CFM	= 6"Ø
101-225 CFM	= 8"Ø
226-425 CFM	= 10"Ø

EXHAUST/RETURN BRANCH DUCT SIZING	
0-30 CFM	= 4"Ø
31-95 CFM	= 6"Ø
96-200 CFM	= 8"Ø
201-400 CFM	= 10"Ø
401-600 CFM	= 12"Ø

ISSUE / REVISION DATE:	
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08/04/2022	PRELIMINARY REVIEW
01/13/2023	FRANCHISE REVIEW
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08/19/2023	IHG FINAL REVIEW
11/17/2023	SAXONY DESIGN REVIEW 2
01/26/2024	FOR CONSTRUCTION

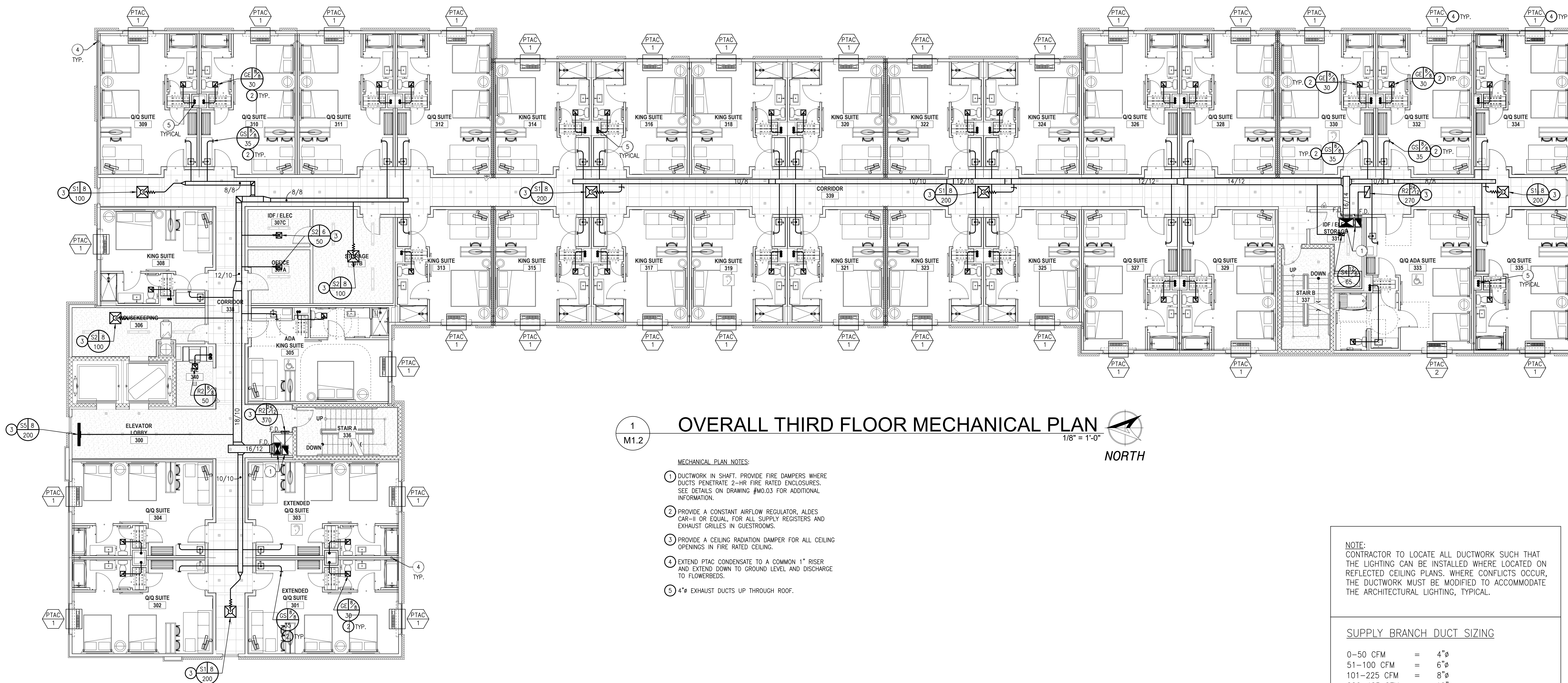
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M1.1



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AN IHG HOTEL
ERLEN DR. & MINDEN DR. FISHERS, INDIANA 46037 HAMILTON COUNTY

**OVERALL THIRD FLOOR
MECHANICAL PLAN**



1
M1.2

OVERALL THIRD FLOOR MECHANICAL PLAN

1/8" = 1'-0"

NORTH

MECHANICAL PLAN NOTES:

- 1 DUCTWORK IN SHAFT, PROVIDE FIRE DAMPERS WHERE DUCTS PENETRATE 2-HR FIRE RATED ENCLOSURES. SEE DETAILS ON DRAWING #M0.03 FOR ADDITIONAL INFORMATION.
- 2 PROVIDE A CONSTANT AIRFLOW REGULATOR, ALDES CAR-II OR EQUAL, FOR ALL SUPPLY REGISTERS AND EXHAUST GRILLES IN GUESTROOMS.
- 3 PROVIDE A CEILING RADIATION DAMPER FOR ALL CEILING OPENINGS IN FIRE RATED CEILING.
- 4 EXTEND PTAC CONDENSATE TO A COMMON 1" RISER AND EXTEND DOWN TO GROUND LEVEL AND DISCHARGE TO FLOWBERDS.
- 5 4" EXHAUST DUCTS UP THROUGH ROOF.

NOTE:
CONTRACTOR TO LOCATE ALL DUCTWORK SUCH THAT THE LIGHTING CAN BE INSTALLED WHERE LOCATED ON REFLECTED CEILING PLANS. WHERE CONFLICTS OCCUR, THE DUCTWORK MUST BE MODIFIED TO ACCOMMODATE THE ARCHITECTURAL LIGHTING, TYPICAL.

SUPPLY BRANCH DUCT SIZING

0-50 CFM	=	4"ø
51-100 CFM	=	6"ø
101-225 CFM	=	8"ø
226-425 CFM	=	10"ø

EXHAUST/RETURN BRANCH DUCT SIZING

0-30 CFM	=	4"ø
31-95 CFM	=	6"ø
96-200 CFM	=	8"ø
201-400 CFM	=	10"ø
401-600 CFM	=	12"ø

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M1.2



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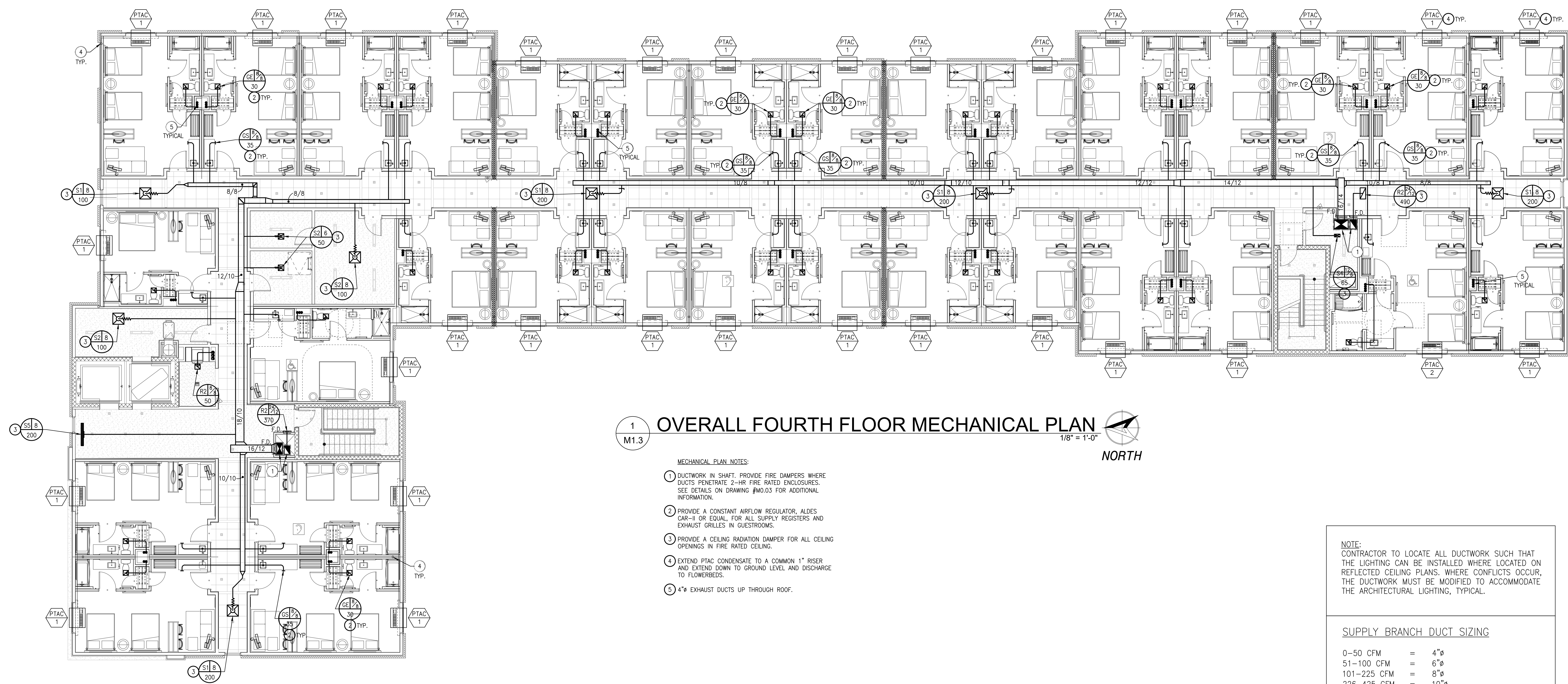
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OVERALL FOURTH FLOOR
MECHANICAL PLAN



1
M1.3

OVERALL FOURTH FLOOR MECHANICAL PLAN

1/8" = 1'-0"

NORTH

- MECHANICAL PLAN NOTES:
- 1 DUCTWORK IN SHAFT, PROVIDE FIRE DAMPERS WHERE DUCTS PENETRATE 2-HR FIRE RATED ENCLOSURES. SEE DETAILS ON DRAWING #M0.03 FOR ADDITIONAL INFORMATION.
 - 2 PROVIDE A CONSTANT AIRFLOW REGULATOR, ALDES CAR-II OR EQUAL, FOR ALL SUPPLY REGISTERS AND EXHAUST GRILLES IN GUESTROOMS.
 - 3 PROVIDE A CEILING RADIATION DAMPER FOR ALL CEILING OPENINGS IN FIRE RATED CEILING.
 - 4 EXTEND PTAC CONDENSATE TO A COMMON 1" RISER AND EXTEND DOWN TO GROUND LEVEL AND DISCHARGE TO FLOWBERDS.
 - 5 4" EXHAUST DUCTS UP THROUGH ROOF.

NOTE:
CONTRACTOR TO LOCATE ALL DUCTWORK SUCH THAT THE LIGHTING CAN BE INSTALLED WHERE LOCATED ON REFLECTED CEILING PLANS. WHERE CONFLICTS OCCUR, THE DUCTWORK MUST BE MODIFIED TO ACCOMMODATE THE ARCHITECTURAL LIGHTING, TYPICAL.

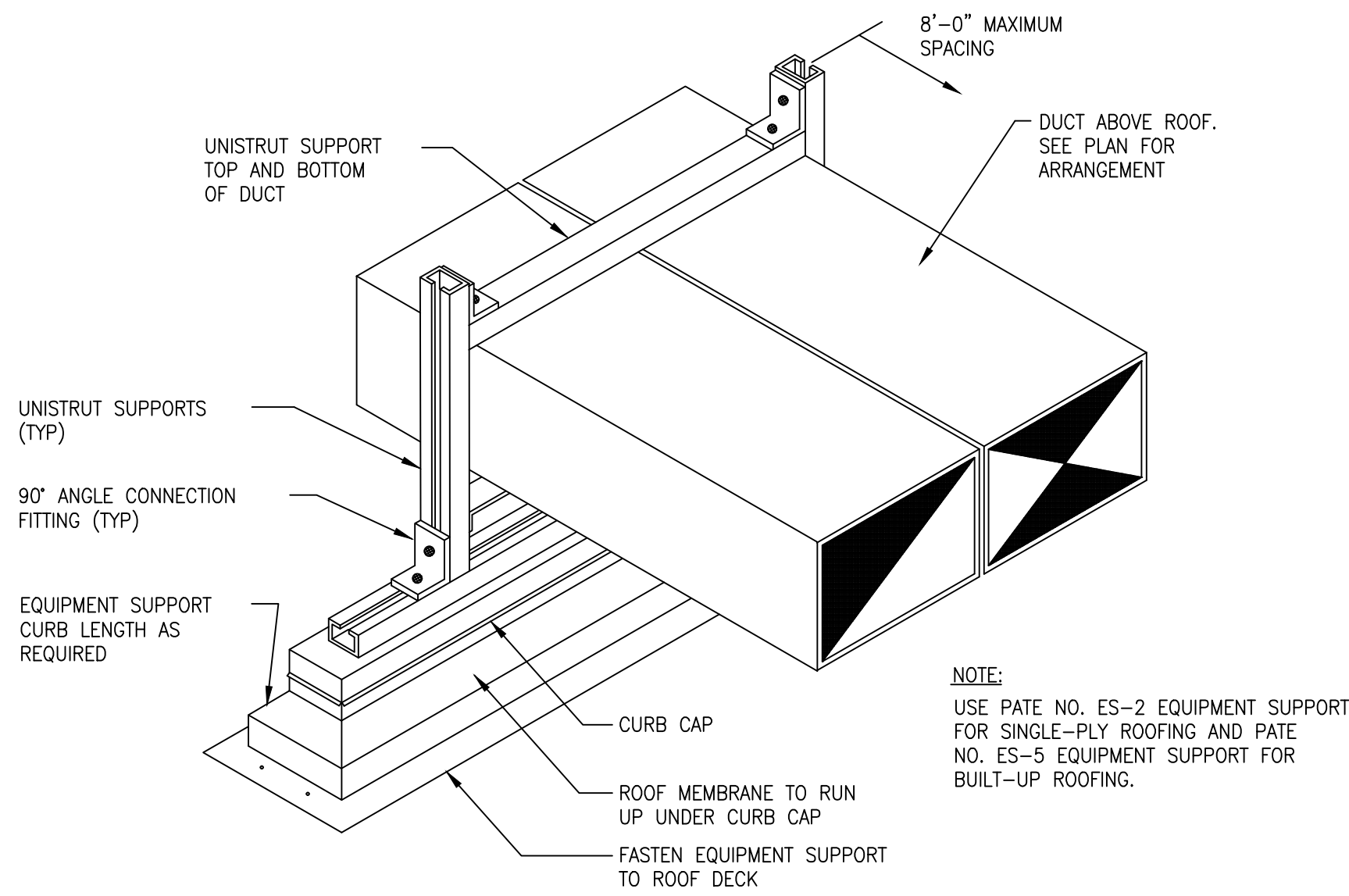
SUPPLY BRANCH DUCT SIZING		
0-50 CFM	=	4"ø
51-100 CFM	=	6"ø
101-225 CFM	=	8"ø
226-425 CFM	=	10"ø

EXHAUST/RETURN BRANCH DUCT SIZING		
0-30 CFM	=	4"ø
31-95 CFM	=	6"ø
96-200 CFM	=	8"ø
201-400 CFM	=	10"ø
401-600 CFM	=	12"ø

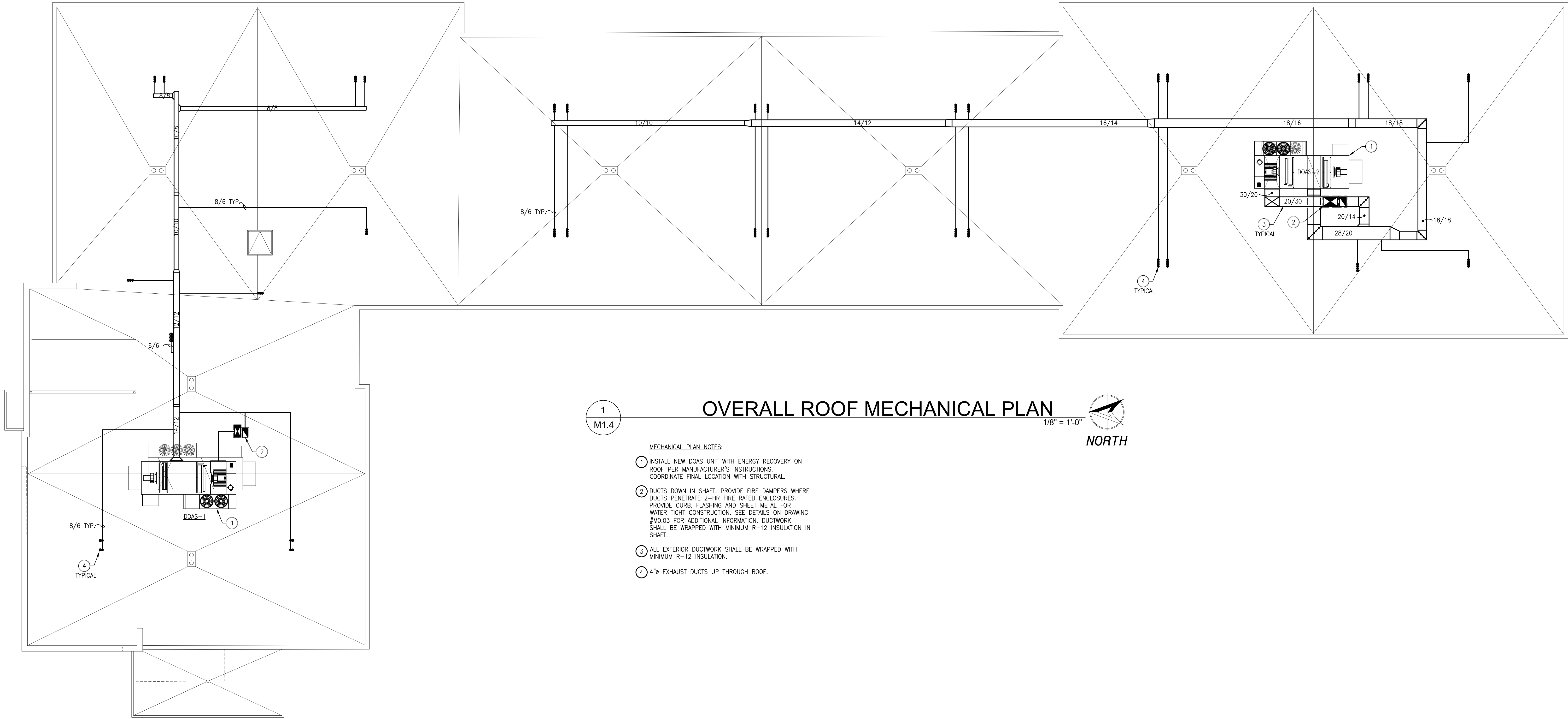
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M1.3

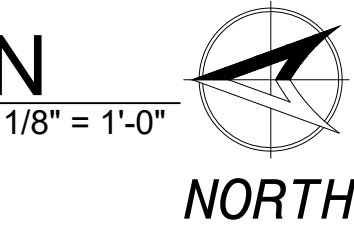


ROOFTOP DUCT SUPPORT DETAIL
SCALE: NONE



1
M1.4

OVERALL ROOF MECHANICAL PLAN



MECHANICAL PLAN NOTES:

1. INSTALL NEW DOAS UNIT WITH ENERGY RECOVERY ON ROOF PER MANUFACTURER'S INSTRUCTIONS. COORDINATE FINAL LOCATION WITH STRUCTURAL.
2. DUCTS DOWN IN SHAFT. PROVIDE FIRE DAMPERS WHERE DUCTS PENETRATE 2-HR FIRE RATED ENCLOSURES. PROVIDE CURB, FLASHING AND SHEET METAL FOR WATER TIGHT CONSTRUCTION. SEE DETAILS ON DRAWING #M0.03 FOR ADDITIONAL INFORMATION. DUCTWORK SHALL BE WRAPPED WITH MINIMUM R-12 INSULATION IN SHAFT.
3. ALL EXTERIOR DUCTWORK SHALL BE WRAPPED WITH MINIMUM R-12 INSULATION.
4. 4" EXHAUST DUCTS UP THROUGH ROOF.



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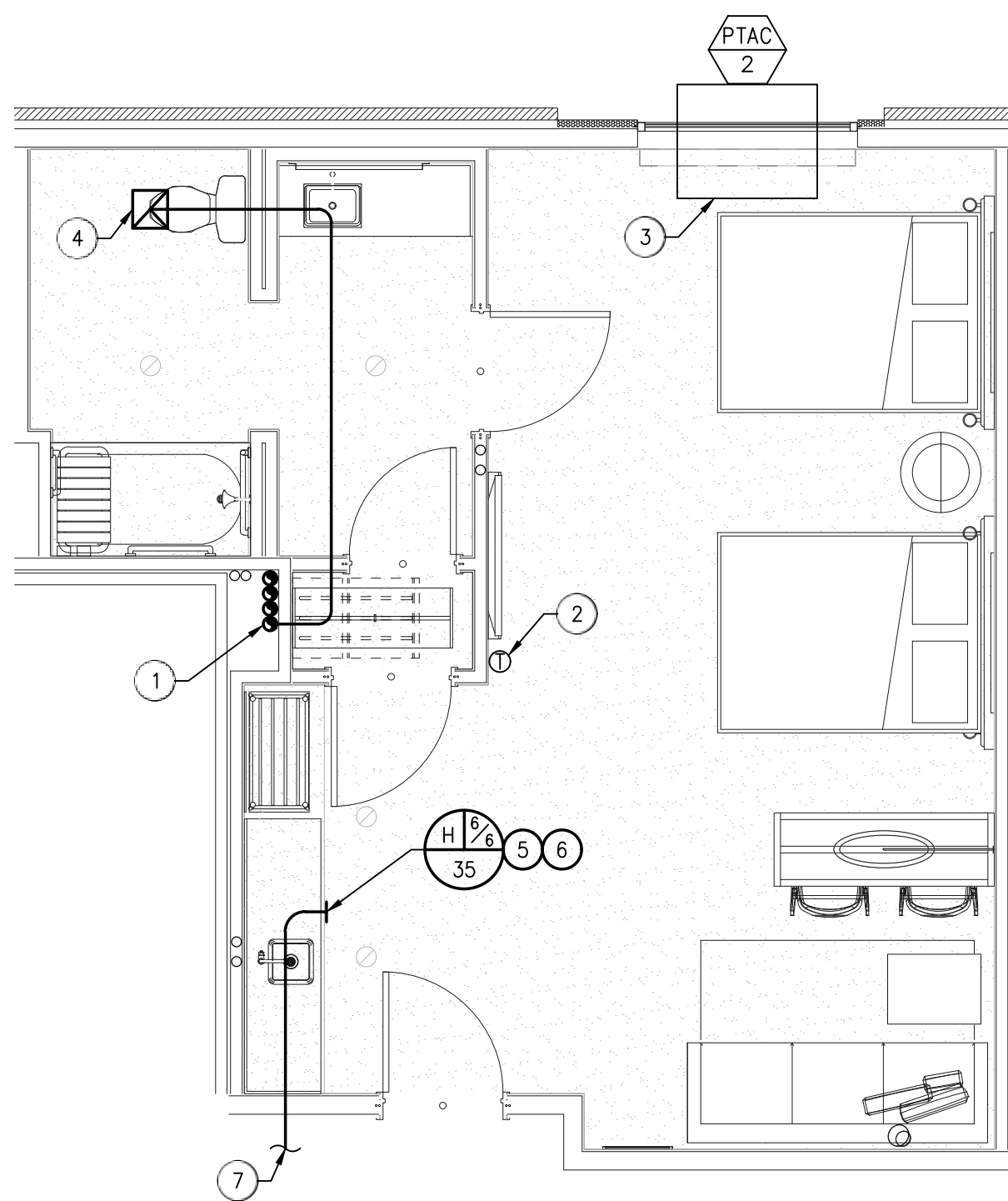
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OVERALL ROOF MECHANICAL PLAN

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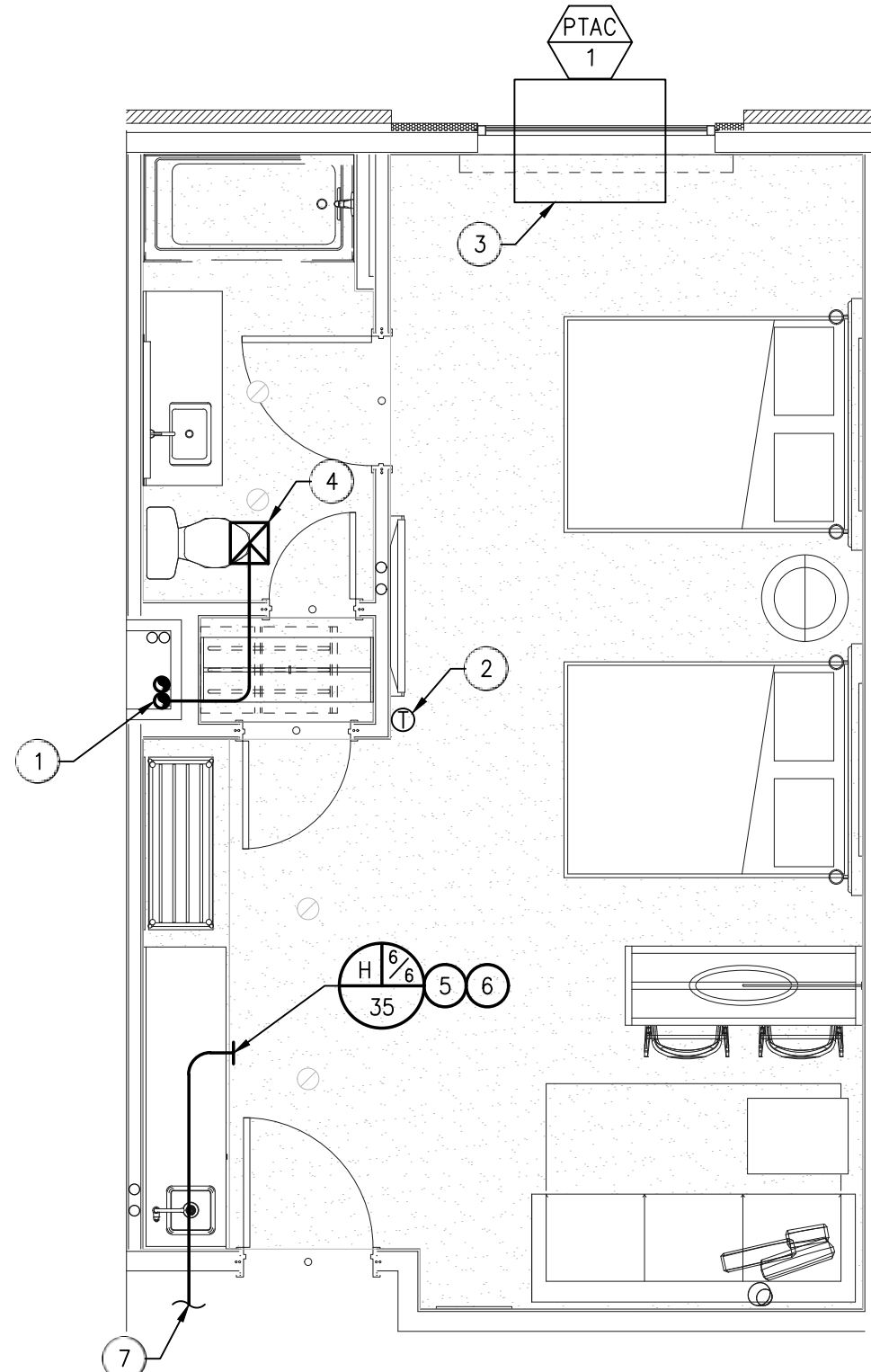
M1.4



5
M2.1

ADA DOUBLE QUEEN SUITE MECHANICAL PLAN

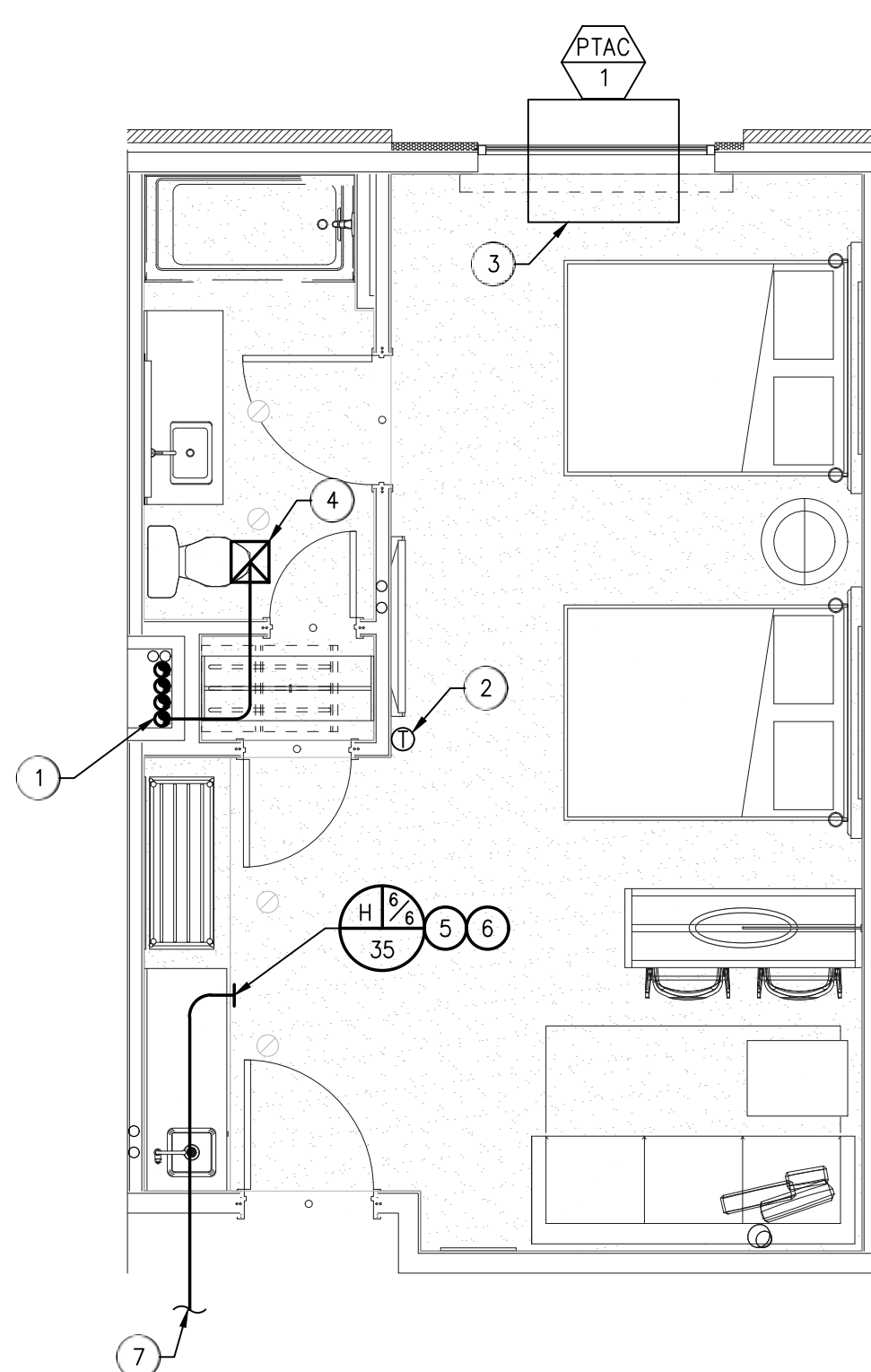
1/4" = 1'-0"



4
M2.1

DOUBLE QUEEN SUITE EXTENDED MECHANICAL PLAN

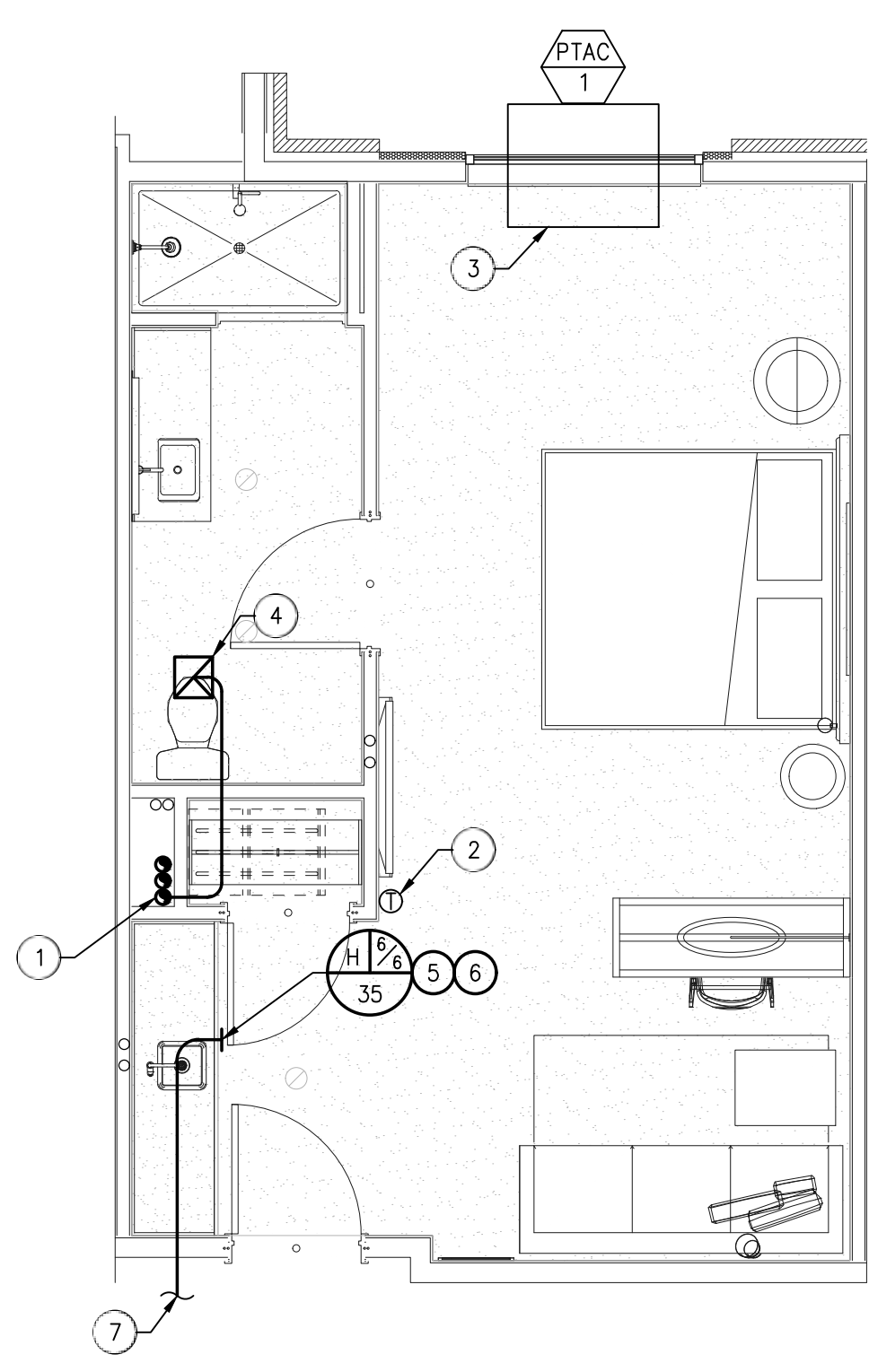
1/4" = 1'-0"



3
M2.1

DOUBLE QUEEN SUITE MECHANICAL PLAN

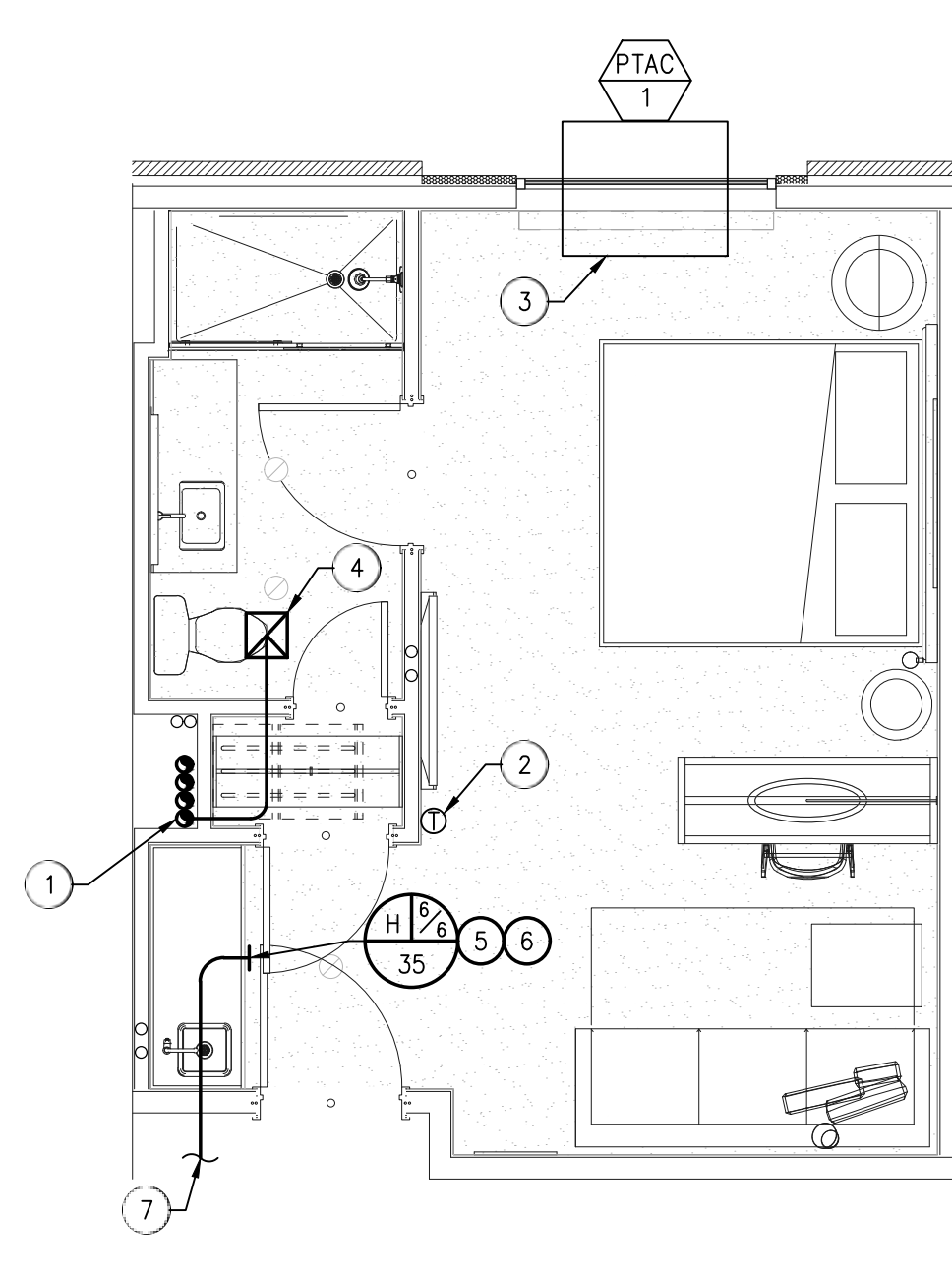
1/4" = 1'-0"



2
M2.1

ADA KING SUITE MECHANICAL PLAN

1/4" = 1'-0"



1
M2.1

KING SUITE MECHANICAL PLAN

1/4" = 1'-0"

- ENLARGED MECHANICAL PLAN NOTES:
- 1 4" EXHAUST DUCT TO EXHAUST GRILLE IN BATHROOM. SEE OVERALL PLANS FOR CONTINUATION.
 - 2 7-DAY PROGRAMMABLE THERMOSTAT. THERMOSTAT TO BE HARDWIRED. MOUNTED AT 48" ABOVE FINISH FLOOR IN ACCESSIBLE ROOMS AND 54" ABOVE FINISH FLOOR IN NON-ACCESSIBLE ROOMS. SEE ARCHITECTURAL DRAWINGS FOR EXACT LOCATIONS.
 - 3 PTAC UNIT, INSTALL PER MANUFACTURER'S INSTRUCTIONS.
 - 4 EXHAUST GRILLE. SEE ARCHITECTURAL DRAWINGS FOR EXACT LOCATION.
 - 5 PROVIDE A CONSTANT AIRFLOW REGULATOR, ALDES CAR-II OR EQUAL, FOR ALL SUPPLY REGISTERS AND EXHAUST GRILLES IN GUESTROOMS.
 - 6 FRESH AIR GRILLE. SEE ARCHITECTURAL DRAWINGS FOR EXACT LOCATION.
 - 7 4" FRESH AIR DUCT TO SUPPLY REGISTER. SEE OVERALL PLANS FOR CONTINUATION.

1-26-24

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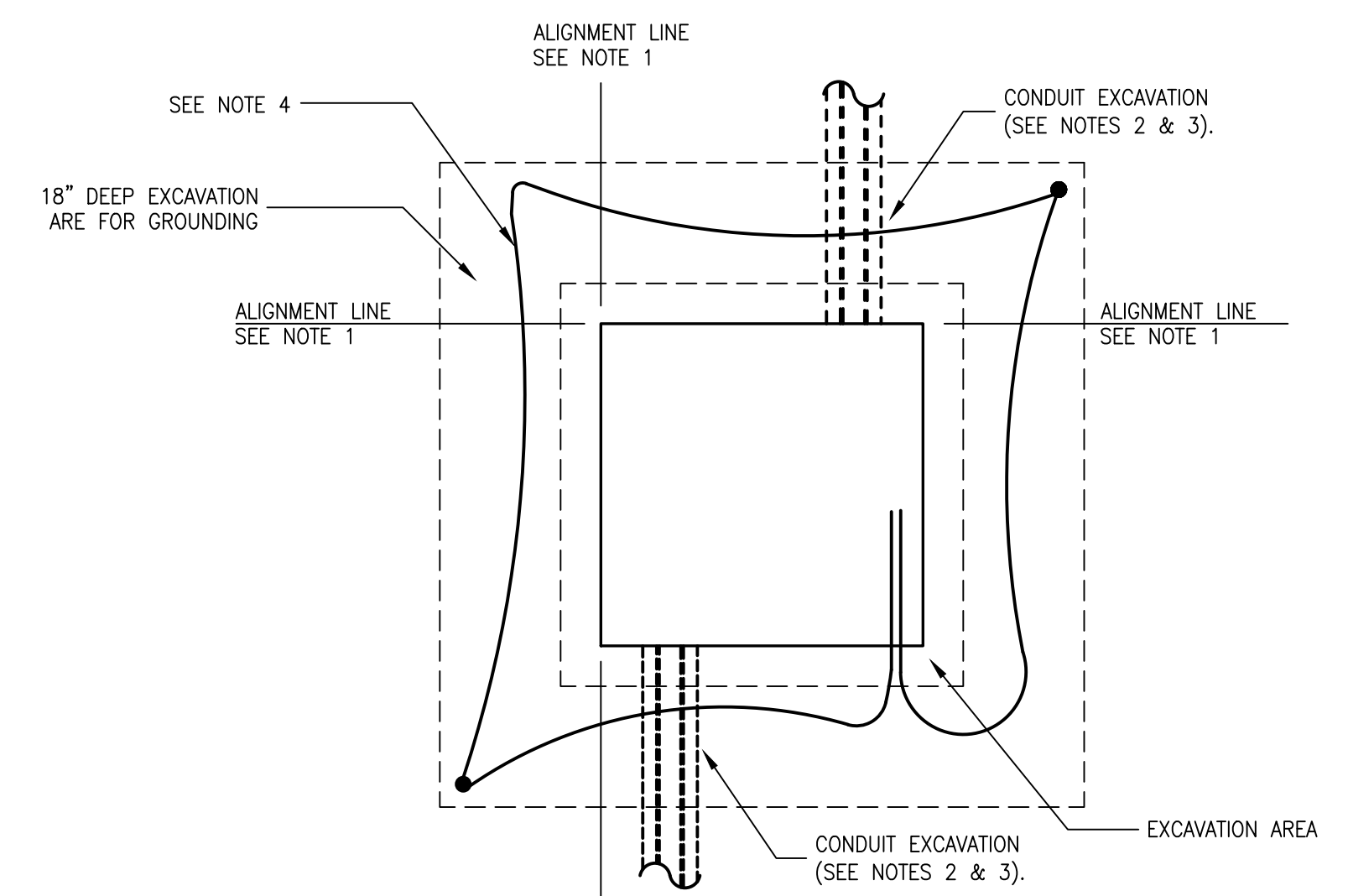
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ENLARGED UNIT MECHANICAL PLANS

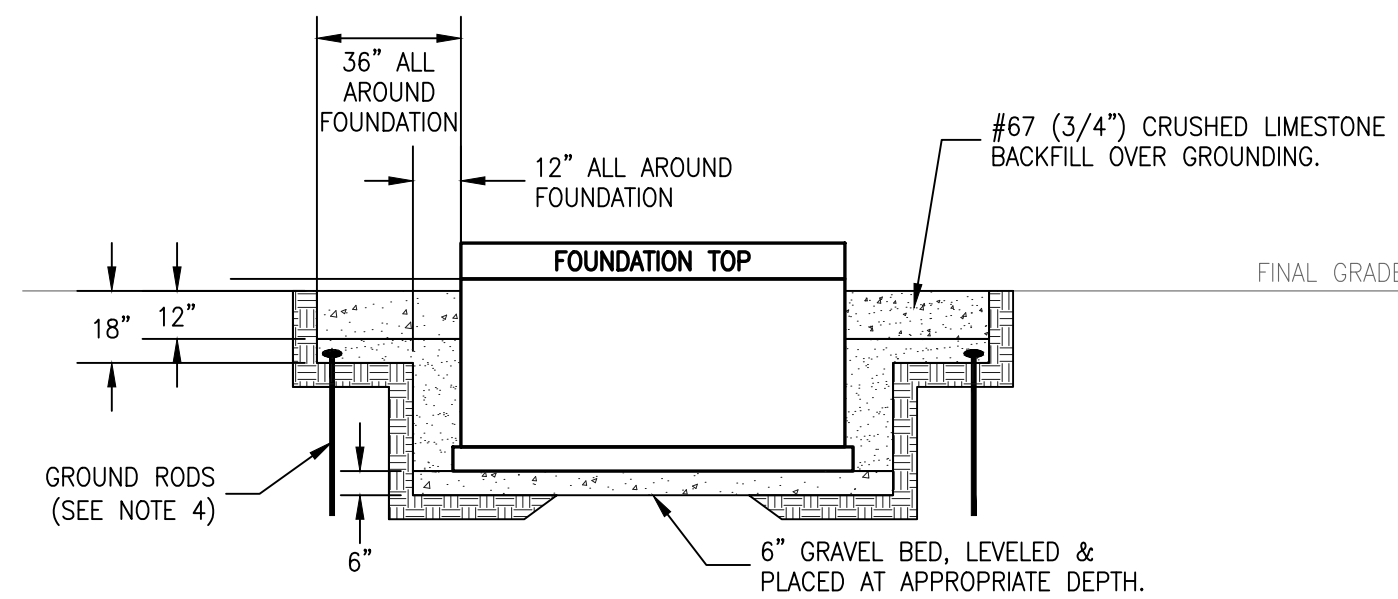
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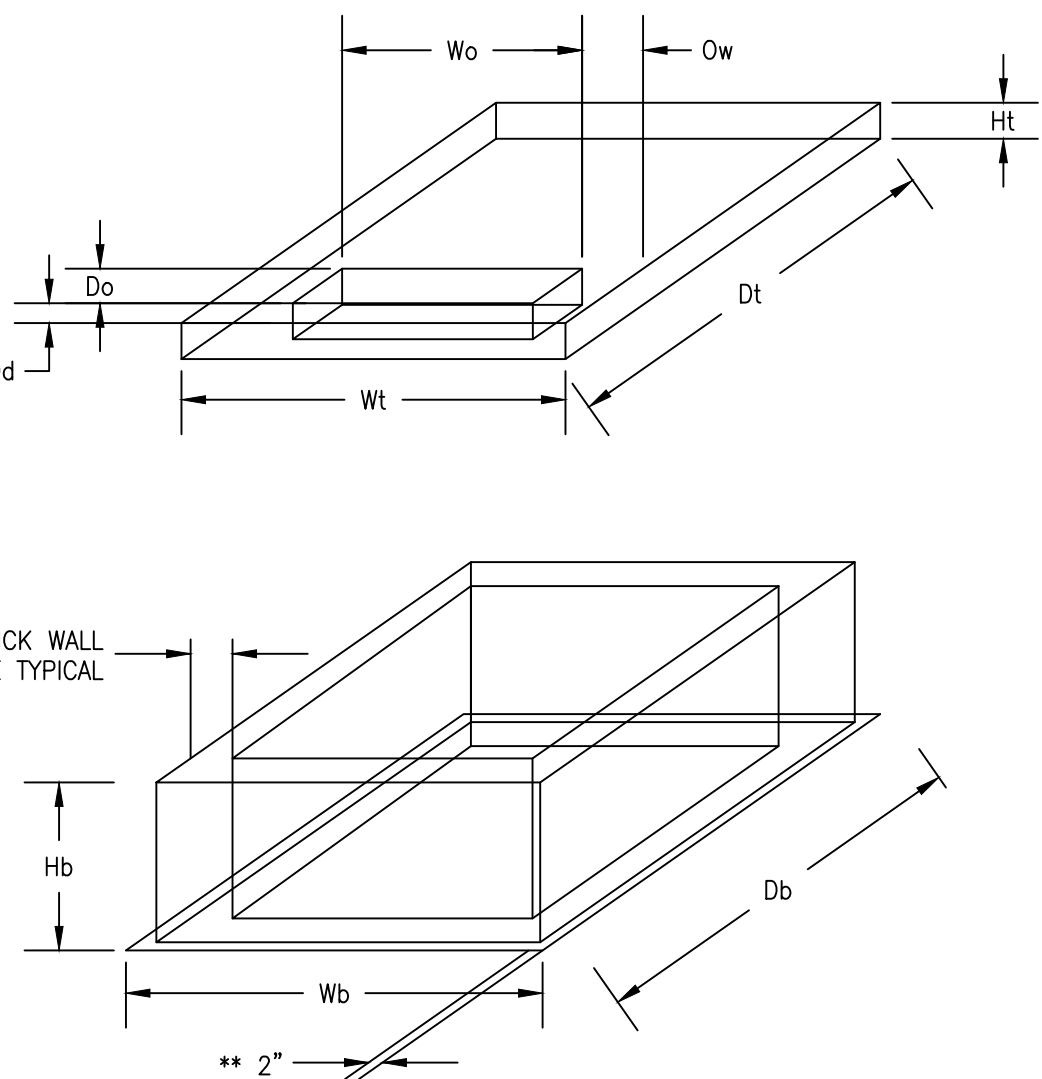
M2.1



TRANSFORMER VAULT - PLAN VIEW
NO SCALE



TRANSFORMER VAULT - SECTION VIEW
NO SCALE



TRANSFORMER VAULT - DIMENSION DETAILS
NO SCALE

TRANSFORMER SIZE	TRANSFORMER SIZE				TRANSFORMER SIZE				TRANSFORMER SIZE			
	Wb	Db	Hb	WEIGHT	Wt	Dt	Ht	WEIGHT	Wo	Do	Ow	Od
150 kVA & BELOW	72"	54"	42"	4275lb	72"	54"	6"	1725lb	42"	14"	15"	6"
225 - 1000 kVA	82"	70"	42"	8000lb	78"	66"	6"	2400lb	48"	14"	15"	6"
1500 - 2500 kVA	100"	100"	42"	12000lb	96"	96"	9"	6400lb	60"	15"	18"	9"
1500 - 2500 kVA	100"	100"	42"	14000lb	96"	96"	9"	6400lb	60"	15"	18"	9"

PRE-CAST CONCRETE FOUNDATION TABLE GENERAL NOTES:

- CUSTOMER RETAINS OWNERSHIP OF FOUNDATION.
- BASE IS CUSTOMIZED FOR LOCATION : CONDUIT TERMINATORS W/ KNOCKOUTS; OPENINGS FOR CONDUIT PUSH THROUGH; CUSTOMER SECONDARY CABLE CONDUIT OPENINGS.
- HE DEEPER BASE FOR THE 1500-2500 KVA TRANSFORMER IS USED WHEN THE SECONDARY CONDUIT CONFIGURATION REQUIRES A DEEPER WELL TO MAINTAIN NESC MINIMUM SOIL COVER OVER THE CONDUIT.

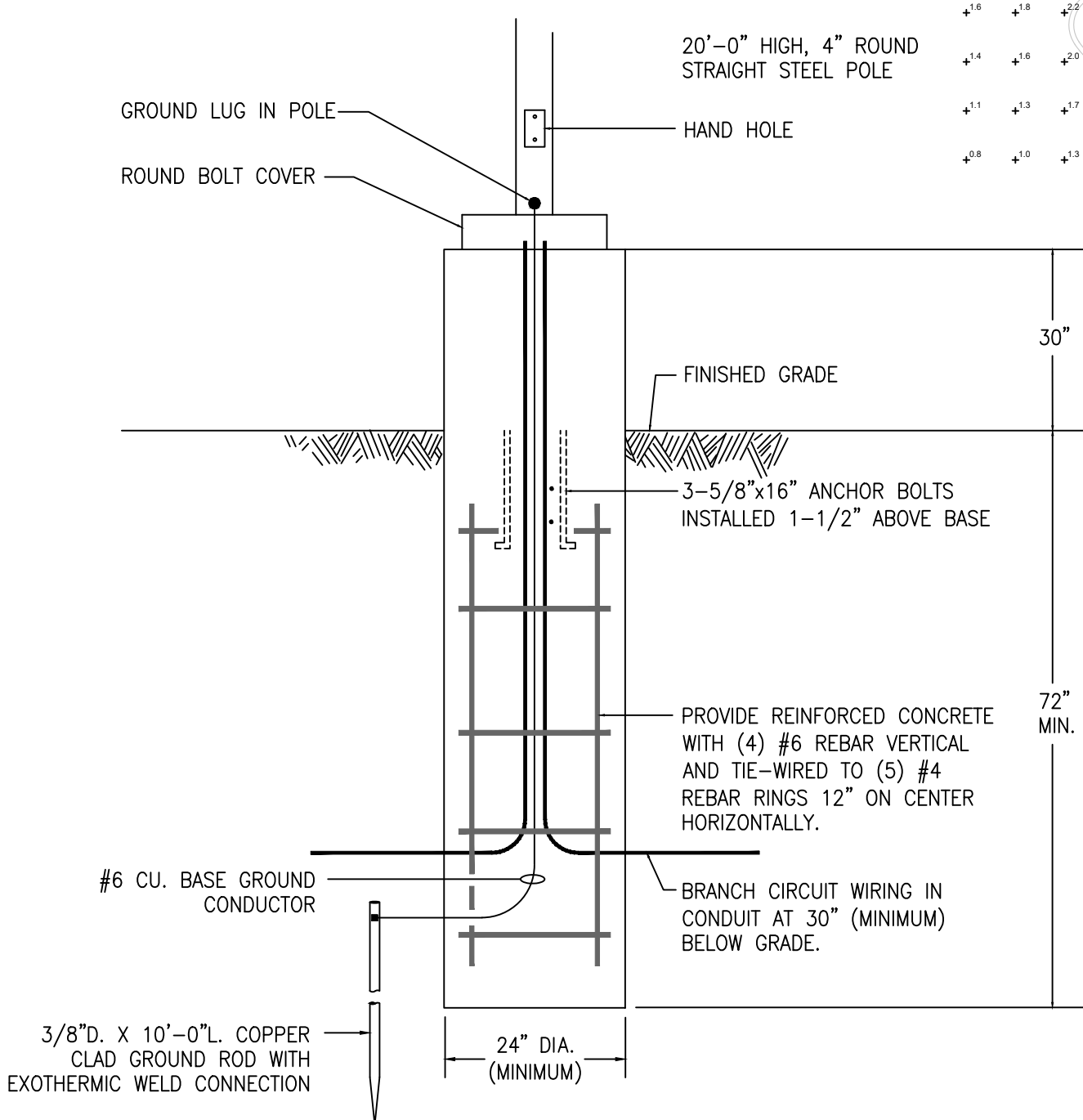
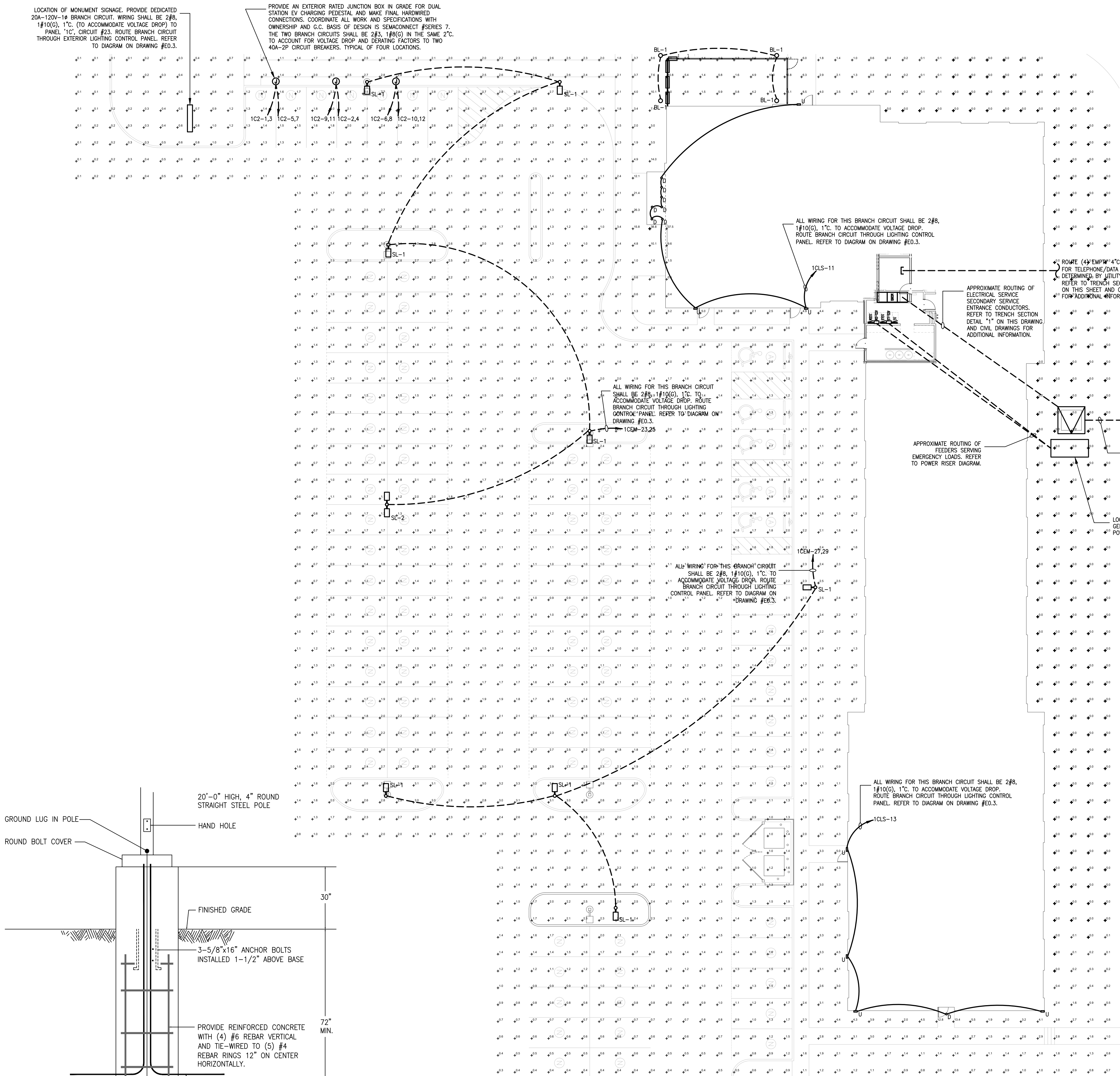
TRANSFORMER DETAILS CONSTRUCTION NOTES:

- FOR DELIVERY OF PRE-CAST FOUNDATION, THE CUSTOMER MUST COMPLETE THE FOLLOWINGS: EXCAVATION TO THE DESIGNATED DEPTH; 6" GRAVEL BED INSTALLED (TAMPED & LEVELLED AT APPROPRIATE DEPTH); PAVEMENT (EITHER CONCRETE ASPHALT OR GRASSCRETS) TO WITHIN 10' OF INSTALLATION FOR DELIVERY TRUCK; PAINTED LINES OR STAKES & STRINGS FOR ALIGNMENT IN PLACE; THREE 4" X 4" LUMBER OFF TO SIDE FOR UNLOADING FOUNDATION TOP AT DELIVERY TIME).
- CUSTOMER TO PROVIDE, INSTALL AND SEAL A MIN 5' SECTION OF PVC CONDUIT THRU THE WALL OF THE FOUNDATION BASE (SLOPING DOWN AWAY FROM THE FOUNDATION) FOR FE Operating Co. (FEOC) PRIMARY CABLE AT FEOC DESIGNATED LOCATION. CONDUIT POSITIONS VARY. REFER TO FEOC CONSTRUCTION PLANS FOR ACTUAL LOCATIONS.
- EXCAVATION FOR CONDUITS CAN BE DONE AT SAME TIME AS FOR FOUNDATION.
- THE CUSTOMER SHALL INSTALL A CONTINUOUS LOOP OF #2 BARE, SEVEN STRAND SOFT DRAWN COPPER WIRE CONNECTED TO TWO 5/8-INCH DIAMETER X 8-FOOT GROUND RODS INSTALLED IN OPPOSITE CORNERS OF THE VAULT IN UNDISTURBED EARTH. BOTH ENDS OF THE GROUND WIRE SHALL ENTER THE FOUNDATION THROUGH A ONE INCH DIAMETER HOLE TO BE DRILLED OR CHISELED IN THE UPPER RIGHT HAND CORNER OF THE KNOCKOUT PANE. EACH GROUND WIRE TAIL SHALL EXTEND 15 FEET INSIDE VAULT BEYOND KNOCKOUT POINT.

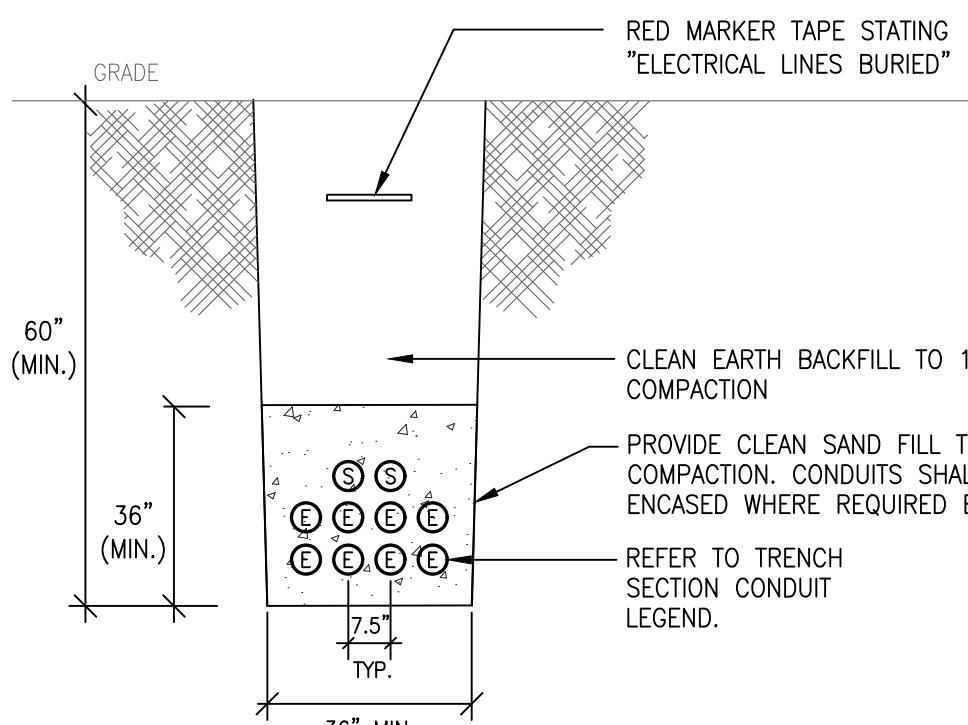
SITE LUMINAIRE SCHEDULE						
TYPE	LAMP	WATTAGE	VOLTAGE	DESCRIPTION	CATALOG NUMBER	REMARKS
SL-1	LED 4000K 11142 LM.	120	208	LED POLE MOUNTED FIXTURE MOUNTED ON 20'-0" POLE WITH FORWARD THROW LIGHT OPTICS.	LUMCA LIGHTING #CPL02XX-54LED07-120W-40K-L3FL-54-120	REFER TO POLE BASE DETAIL ON THIS DRAWING.
SL-2	LED 4000K 9910 LM.	120	208	LED POLE MOUNTED FIXTURE MOUNTED ON 20'-0" POLE WITH TYPE V LIGHT DISTRIBUTION.	LUMCA LIGHTING #CPL02XX-54LED07-120W-40K-L55-54-120	REFER TO POLE BASE DETAIL ON THIS DRAWING.
BL-1	LED 4000K 1500 LM.	20	120	LED BOLLARD FIXTURE 42" IN HEIGHT.	LITHONIA LIGHTING #KBAB-16C-350-40K-SYM-MVOLT-XXXXX	-
D	LED 3000K 3500L	35	120	LED 6" DOWNLIGHT FOR USE IN EXTERIOR CANOPIES.	LITHONIA LIGHTING #LDN6-30/30-L06-AR-LD-TRW-MVOLT-GZ10	-
U	LED 3000K 3000L	25	120	LED WALL MOUNTED SCONCE WITH FORWARD THROW OPTICS.	LITHONIA LIGHTING #WPK1-LED-P2-40K-MVOLT	MOUNT AT 13'-0" ABOVE GRADE.

LUMINAIRE SCHEDULE GENERAL NOTES:

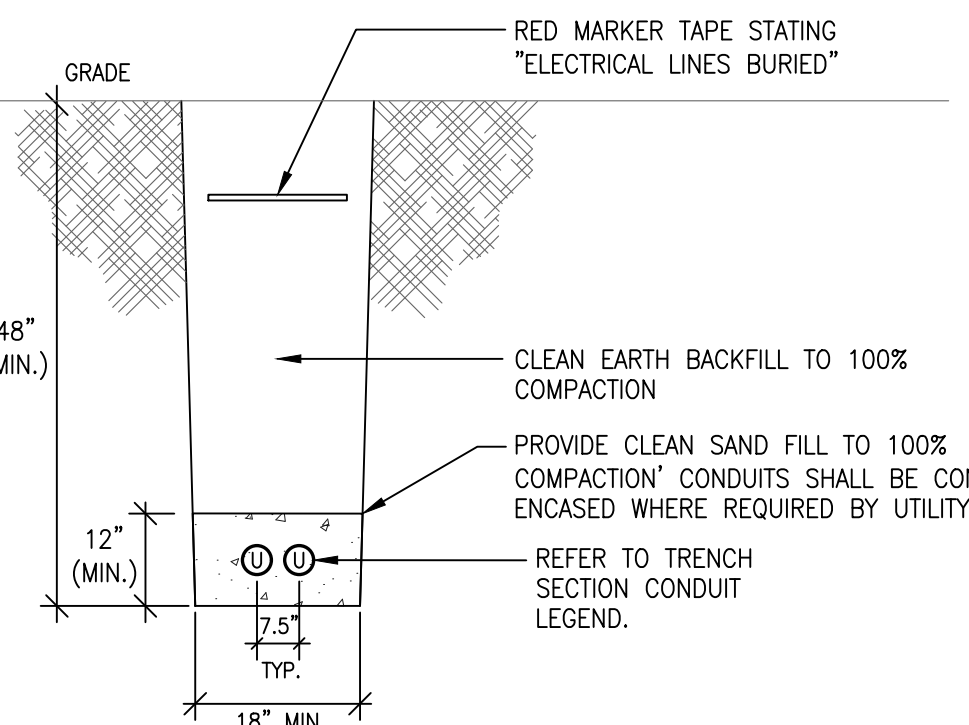
- VERIFY ALL LUMINAIRE COLORS, TRIMS, LENGTHS, ETC. WITH THE ARCHITECT PRIOR TO PLACING FINAL PURCHASE ORDERS. SUBMISSION OF SHOP DRAWINGS WILL BE INTERPRETED AS HAVING BEEN COORDINATED WITH THE ARCHITECTURAL DRAWINGS.
- PROVIDE ALL LENGTHS, FEEDS, ACCESSORIES, CONNECTORS, WIRING, POWER SUPPLIES, DRIVERS, ETC. FOR A COMPLETE INSTALLATION. THE E.C. SHALL VERIFY THE COMPLETE BILL OF MATERIAL WITH MANUFACTURER'S REPRESENTATIVE AND INSURE ALL EQUIPMENT IS INCLUDED IN BID PRICE. COORDINATE INSTALLATION WITH ARCHITECTURAL DETAILS.
- VERIFY EXACT MOUNTING HEIGHT AND LOCATIONS OF ALL WALL MOUNTED AND PENDANT MOUNTED LUMINAIRES WITH ARCHITECTURAL PLANS AND ELEVATIONS PRIOR TO ROUGH-IN.
- ANY PROPOSED ALTERNATE LUMINAIRES SHALL BE APPROVED BY THE ARCHITECT PRIOR TO FINAL BID PRICING.
- SHOULD THE CONTRACTOR PROPOSE TO FURNISH MATERIALS, EQUIPMENT, AND DEVICES, OTHER THAN THOSE SPECIFIED AND LISTED, THE CONTRACTOR SHALL SUBMIT A WRITTEN REQUEST FOR SUBSTITUTIONS, TO THE ENGINEER AT LEAST TEN (10) BUSINESS DAYS PRIOR TO BID OPENING. THE REQUEST SHALL BE AN ALTERNATE TO THE ORIGINAL BID AND SHALL INCLUDE A COMPLETE SPECIFICATIONS OUT SHEET SUBMITTAL AS OUTLINED IN THE SPECIFICATIONS, COMPLETE WITH DESCRIPTIVE (MANUFACTURER, BRAND NAME, CATALOG NUMBER, ETC.) AND TECHNICAL DATA FOR ALL ITEMS. INDICATE ANY ADDITIONS OR DEDUCTIONS TO THE CONTRACT PRICE WITH THE SUBSTITUTION SUBMITTAL AND ON THE BID FORM.



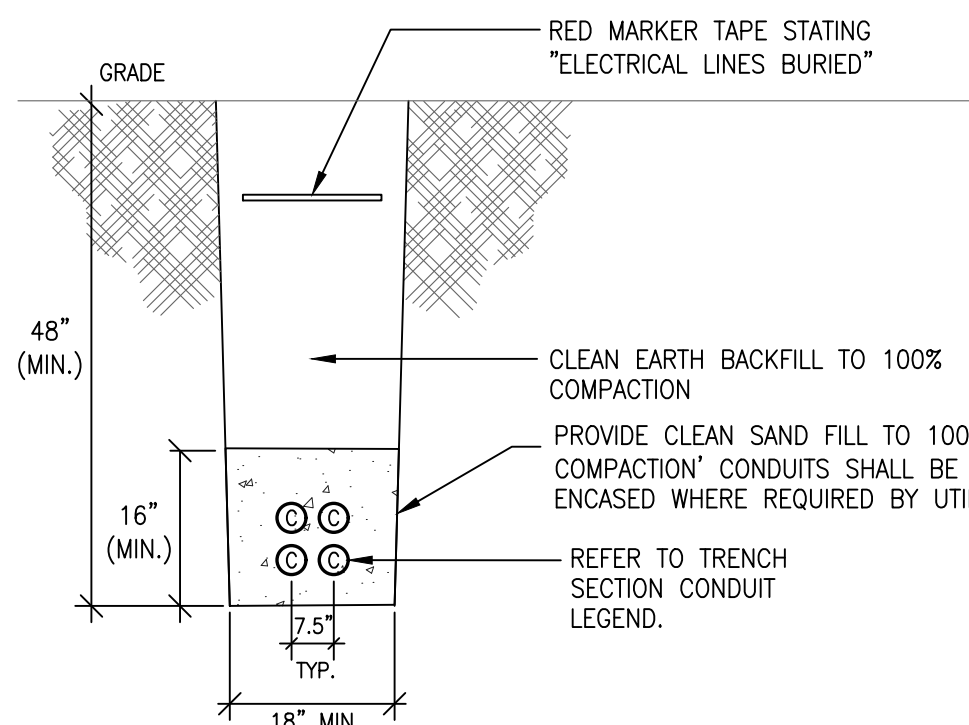
TYPICAL SITE LIGHT - POLE BASE DETAIL
NO SCALE



TYPICAL TRENCH SECTION DETAIL #1
NO SCALE



TYPICAL TRENCH SECTION DETAIL #2
NO SCALE



TYPICAL TRENCH SECTION DETAIL #3
NO SCALE

TRENCH SECTION CONDUIT LEGEND:

- "E" SECONDARY ELECTRICAL SERVICE ENTRANCE FEEDERS, IN 4TC. REFER TO POWER RISER DIAGRAM.
- "C" EMPTY 4" CONDUIT WITH PULLWIRE FOR COMMUNICATION WIRING BY OTHERS.
- "S" SPARE 4" CONDUIT W/ PULLWIRE.
- "U" EMPTY 5" CONDUIT WITH PULLWIRE FOR UTILITY PRIMARY CONDUCTORS. CONDUCTORS BY UTILITY.

1-26-24

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REGISTERED

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ELECTRICAL SITE/PHOTOMETRIC PLAN

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ES.1

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PART I – ELECTRICAL GENERAL PROVISIONS

1.1 RELATED DOCUMENTS

- a. THE PROVISIONS OF THE INSTRUCTIONS TO BIDDERS, GENERAL CONDITIONS, SUPPLEMENTARY CONDITIONS, ALTERNATES, ADDENDUMS, AND DIVISION 16 ARE A PART OF THIS SPECIFICATION. CONTRACTORS AND SUBCONTRACTORS SHALL EXAMINE SAME AS WELL AS OTHER DIVISIONS OF THE SPECIFICATIONS WHICH AFFECT WORK UNDER THIS DIVISION.

1.2 SUMMARY

- A. THIS SECTION INCLUDES GENERAL ADMINISTRATIVE AND PROCEDURAL REQUIREMENTS FOR ELECTRICAL INSTALLATIONS COMMON TO ALL SECTIONS OF DIVISION 16. THE ADMINISTRATIVE AND PROCEDURAL REQUIREMENTS IN THIS SECTION EXPAND AND SUPPLEMENT THE REQUIREMENTS SPECIFIED IN DIVISION 1.

1.3 DESCRIPTION OF WORK

- A. ELECTRICAL, ARCHITECTURAL, MECHANICAL, PLUMBING, FIRE PROTECTION, STRUCTURAL, ETC., AND ALL OTHER DRAWINGS AS WELL AS THE SPECIFICATIONS FOR ALL THE DIVISIONS ARE A PART OF THE CONTRACT DOCUMENTS.
- B. DRAWINGS AND SPECIFICATIONS ARE TO BE CONSIDERED AS SUPPLEMENTING EACH OTHER. WORK SPECIFIED BUT NOT SHOWN, OR SHOWN BUT NOT SPECIFIED, SHALL BE PERFORMED OR FURNISHED AS THOUGH MENTIONED IN BOTH SPECIFICATIONS AND DRAWINGS.
- C. VISIT THE SITE OF THE WORK AND BECOME FAMILIAR WITH CONDITIONS AFFECTING THE INSTALLATION. SUBMISSION OF A PROPOSAL SHALL PRESUPPOSE KNOWLEDGE OF SUCH CONDITIONS AND NO ADDITIONAL COMPENSATION SHALL BE ALLOWED WHERE EXTRA LABOR OR MATERIALS ARE REQUIRED BECAUSE OF IGNORANCE OF THESE CONDITIONS.

1.4 WORK INCLUDES

- A. INCLUDE ALL LABOR, MATERIAL, EQUIPMENT, SERVICES, AND PERMITS NECESSARY FOR THE PROPER COMPLETION OF ALL ELECTRICAL WORK SHOWN. ITEMS OMITTED, BUT NECESSARY, MUST BE MADE THE PROPERTY OF THE ARCHITECT AND WORKABLE, SHALL BE UNDERSTOOD TO FORM PART OF THE WORK.

- B. IT IS THE PURPOSE OF THE ELECTRICAL DRAWINGS TO INDICATE THE APPROXIMATE LOCATION OF ALL EQUIPMENT, OUTLETS, ETC., ASCERTAIN EXACT LOCATIONS AND ARRANGE WORK ACCORDINGLY. THE RIGHT IS RESERVED TO EFFECT REASONABLE CHANGES IN THE LOCATION OF OUTLETS UP TO THE TIME OF THE ROUGHING-IN WITHOUT ADDITIONAL COST TO THE OWNER. CHANGES IN LOCATION OF OUTLETS OR EQUIPMENT NECESSITATED BY INTERFERENCE WITH THE WORK OF OTHER TRADES SHALL BE MADE ONLY WITH THE CONSENT OF THE ARCHITECT AND ENGINEER OR OWNER'S REPRESENTATIVE, AND AT NO ADDITIONAL COST.

- C. AS USED IN THIS SPECIFICATION, "PROVIDE" MEANS "FURNISH AND INSTALL" AND "HANG" MEANS "HEATING, VENTILATING, AND AIR-CONDITIONING" AND "POST" MEANS "PROVIDED UNDER OTHER SECTIONS". "FURNISH" MEANS "TO PURCHASE AND DELIVER TO THE PROJECT SITE COMPLETE WITH EVERY NECESSARY APPURTENANCE AND SUPPORT," AND "INSTALL" MEANS "TO UNLOAD AT THE DELIVERY POINT AT THE SITE AND PERFORM EVERY OPERATION NECESSARY FOR PROPER INSTALLATION PER CODES AND MANUFACTURERS REQUIREMENTS, TO ESTABLISH SECURE MOUNTING AND CORRECT OPERATION AT THE PROPER LOCATION IN THE PROJECT."

- D. WORK INCLUDES, BUT IS NOT LIMITED TO:

1. RE-USE OF AND NEW PANELBOARDS AND CIRCUIT BREAKERS
2. FEEDERS AND BRANCH CIRCUIT WIRING
3. HANGERS AND SUPPORTS FOR ELECTRICAL SYSTEMS
4. ELECTRICAL IDENTIFICATION
5. CONDUCTORS AND CABLES
6. GROUNDING AND BONDING
7. RACEWAYS AND BOXES
8. WIRING DEVICES
9. LIGHTING CONTROL DEVICES
10. LUMINAIRES, INCLUDING LAMPS AND BALLASTS
11. RE-WORKING AND NEW DEVICES TO THE EXISTING FIRE ALARM SYSTEM
12. FIRE STOPPING
13. ELECTRICAL CONNECTIONS TO MECHANICAL, HVAC AND PLUMBING EQUIPMENT
14. EMERGENCY RADIO COMMUNICATION ENHANCEMENT SYSTEM
15. METER SOCKETS AND CT CABLES
16. NAMEPLATES LABELS, AND TAGS
17. COORDINATION DRAWINGS
18. SHOP DRAWINGS
19. OPERATION AND MAINTENANCE INSTRUCTIONS AND MANUALS
20. TESTING

- E. THE ELECTRICAL DESIGN IS BASED ON THE CURRENT ADOPTED EDITION NFPA 70 – "THE NATIONAL ELECTRICAL CODE." THE CONTRACTOR SHALL INCLUDE IN THEIR BID THE COST OF INSTALLING MATERIALS AND EQUIPMENT NECESSARY TO SATISFY ALL LOCAL AND/OR STATE CODES.

1.5 WORK OR MATERIALS NOT INCLUDED

- A. THE EXACT WIRING REQUIREMENTS SHALL BE, AS RECOMMENDED BY THE MANUFACTURER OF THE EQUIPMENT, AND SHALL BE VERIFIED BY THE ELECTRICAL CONTRACTOR WITH THE EQUIPMENT MANUFACTURER BEFORE SUBMITTING THE BID.
- B. STARTERS SUPPLIED AS AN INTEGRAL PART OF THE EQUIPMENT SHALL BE FURNISHED UNDER THE DIVISION PROVIDING THE EQUIPMENT. POWER WIRING DISCONNECT SHALL BE UNDER DIVISION 16. ALL OTHER STARTERS AND AUXILIARY CONTROL EQUIPMENT SHALL BE SUPPLIED AND WIRED UNDER DIVISION 16, UNLESS OTHERWISE SHOWN.

1.6 RELATED WORK SPECIFIED ELSEWHERE

- A. DIVISION 13 – SPECIAL CONSTRUCTION
- B. DIVISION 15 – MECHANICAL

1.7 CODES, PERMITS, AND FEES

- A. INSTALL WORK IN FULL ACCORDANCE WITH RULES AND REGULATIONS OF STATE, COUNTY, AND CITY AUTHORITIES HAVING JURISDICTION (AHJ) OVER PREMISES. THIS SHALL INCLUDE SAFETY REQUIREMENTS OF THE STATE OF INDIANA DEPARTMENTS OF COMMERCE AND NATURAL RESOURCES. NO DISCRETION IS AS TO RELEVANT CONTRACTOR FROM COMPLIANCE WITH ANY REQUIREMENTS OF SPECIFICATION WHICH ARE IN EXCESS OF CODE REQUIREMENTS AND NOT IN CONFLICT THEREWITH. WORK SHALL BE INSTALLED IN ACCORDANCE WITH ALL APPLICABLE PROVISIONS OF THE NATIONAL ELECTRICAL CODE, AS INTERPRETED BY THE LOCAL AUTHORITY HAVING JURISDICTION, AS WELL AS ANY OTHER MODIFICATIONS OR REGULATIONS PUBLISHED BY LOCAL OR STATE AUTHORITIES.

- B. GIVE PROPER AUTHORITIES NOTICE AS REQUIRED BY LAW RELATIVE TO THE WORK IN THEIR CHARGE. COMPLY WITH THE REGULATIONS REGARDING TEMPORARY ENCLOSURES, OBSTRUCTIONS, OR EXCAVATIONS AND PAY ALL LEGAL FEES INVOLVED.

- C. SECURE AND PAY FOR PERMITS AND CERTIFICATES OF INSPECTIONS INCIDENTAL TO THIS WORK, AS REQUIRED BY ALL FOREGOING AUTHORITIES. BE RESPONSIBLE FOR PAYMENTS TO ALL PUBLIC UTILITIES FOR WORK PERFORMED BY THEM IN CONNECTION WITH PROVISION OF SERVICE CONNECTIONS REQUIRED UNDER THIS DIVISION OF SPECIFICATIONS. TURN OVER CERTIFICATES OF APPROVAL TO THE CONSTRUCTION MANAGER AND/OR OWNER PROMPTLY WHEN RECEIVED, AND BEFORE PAYMENT IS MADE FOR THE WORK. DELIVER ALL CERTIFICATES TO ARCHITECT IN DUPLICATE.

- D. PROVISIONS OF THE LATEST REVISIONS TO THE FOLLOWING CODES AND STANDARDS SHALL BE FOLLOWED WHERE APPLICABLE:

1. INDIANA ADOPTED STATE BUILDING CODES
2. CITY OF FISHERS BUILDING CODES
3. NFPA 70 – NATIONAL ELECTRICAL CODE (NEC)
4. NFPA 101 – LIFE SAFETY CODE
5. IA/EIA – 568, 569, AND J5T-607
6. AMERICANS WITH DISABILITIES ACT (ADA)
7. FEDERAL OCCUPATIONAL SAFETY AND HEALTH ACT (OSHA)

1.8 COORDINATION WITH OTHER TRADES

- A. PRIOR TO ROUGH-IN, CONSULT THE DRAWINGS, PRODUCT DATA, AND SHOP DRAWING SUBMITTALS COVERING THE WORK FOR OTHER TRADES, THE FIELD LAYOUTS OF THE CONTRACTORS FOR THESE SPECIFICATIONS, AND MAKE ADJUSTMENTS ACCORDINGLY IN LAYING OUT AND INSTALLING THE ELECTRICAL WORK.
- B. KEEP FULLY INFORMED OF THE PROGRESS OF THE GENERAL CONSTRUCTION. INSTALL WORK THAT IS TO BE CONCEALED WITHIN THE BUILDING CONSTRUCTION IN SUFFICIENT TIME TO SECURE PROPER LOCATION WITHOUT DELAY TO THE WORK OF OTHER TRADES. ALL CONDUIT AND OUTLET BOXES CONCEALED IN MASONRY CONSTRUCTION SHALL BE INSTALLED DURING WALL CONSTRUCTION. ATTEND TO ELECTRICAL WORK DURING THE PROGRESS OF BUILDING-IN TO PREVENT MISALIGNMENTS AND DAMAGES TO THE ELECTRICAL WORK.

- C. EXAMINE THE WORK OF OTHER TRADES WHEN IT COMES IN CONTACT WITH, OR IS COVERED BY WORK IN THIS DIVISION. DO NOT ATTEMPT TO COVER UP, OR FINISH AGAINST ANY DEFECTIVE WORK, OR INSTALL WORK IN A MANNER WHICH WILL PREVENT PROPER INSTALLATION OF THE WORK OF OTHER TRADES.

- D. ALL OUTLETS, SWITCHES, AND RECEPTACLES SHALL BE CENTERED WITH REGARD TO PANELING, WALL COVERINGS, TRIM, EQUIPMENT, ETC., AND SHALL LINE UP WITH EITHER BOTTOM OR TOP OF MASONRY COURSES. CHANGES TO THE SPECIFIED MOUNTING HEIGHTS OF ANY DEVICE SHALL BE APPROVED BY THE OWNER'S REPRESENTATIVE BEFORE ROUGH-IN.

- E. TAKE ALL FIELD MEASUREMENTS NECESSARY AND ASSUME RESPONSIBILITY FOR THEIR ACCURACY.

- F. BEFORE BEGINNING CONSTRUCTION OF THE PROJECT, THE CONTRACTOR SHALL PROVIDE TO THE MECHANICAL CONTRACTOR MARKED UP PRINTS INDICATING ALL ELECTRICAL ITEMS WHICH AFFECT THE LOCATION OF HEATING, VENTILATING, AIR CONDITIONING, PLUMBING, PIPING, AND DUCTWORK. THESE SHALL INCLUDE BUT NOT BE LIMITED TO PULL BOXES, CONDUIT, ETC.

1.9 EQUIPMENT AND MATERIALS

- A. ALL EQUIPMENT, DEVICES, AND MATERIALS USED ON THIS PROJECT SHALL BE NEW AND UL LISTED AND LABELED FOR THE APPLICATION.
- B. PROVIDE MATERIAL AND LABOR WHICH IS NEITHER DRAWN NOR SPECIFIED, BUT WHICH IS OBVIOUSLY A COMPONENT PART OF, AND NECESSARY TO COMPLETE WORK AND WHICH IS CUSTOMARILY A PART OF WORK OF SIMILAR CHARACTER.

- C. EQUIPMENT AND MATERIALS FOR THE CONSTRUCTION SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR AND SHALL BE PROTECTED BY SAME UNTIL FORMALLY ACCEPTED BY THE OWNER.

- D. ALL MANUFACTURERS OF ELECTRICAL EQUIPMENT SHALL VERIFY TO THE SATISFACTION OF THE CONTRACTOR AND ENGINEER THAT THEIR EQUIPMENT WILL FUNCTION PROPERLY UNDER THE CONDITIONS OF USE AS SHOWN ON THE DRAWINGS AND AS SPECIFIED HEREIN. DIMENSIONS, WEIGHTS, OPERATING CHARACTERISTICS AND ALL OTHER RELATED APPURTENANCES SHALL BE VERIFIED BEFORE SUBMITTAL OF SHOP DRAWINGS.

1.10 MATERIAL SUBSTITUTIONS

- A. BIDS SHALL BE BASED UPON THE SPECIFIED PRODUCTS OR LISTED ALTERNATIVES. DRAWINGS AND SPECIFICATIONS ARE BASED ON THE PRODUCTS SPECIFIED BY TYPE, MODEL, AND SIZE AND THUS ESTABLISH MINIMUM QUALITIES, WHICH SUBSTITUTES MUST MEET TO QUALIFY FOR REVIEW.
- B. SHOULD THE CONTRACTOR PROPOSE TO FURNISH MATERIALS, EQUIPMENT, AND DEVICES, OTHER THAN THOSE SPECIFIED AND LISTED, THE CONTRACTOR SHALL SUBMIT A WRITTEN REQUEST FOR SUBSTITUTIONS, TO THE ENGINEER AT LEAST TEN (10) BUSINESS DAYS PRIOR TO BID OPENING. THE REQUEST SHALL BE AN ALTERNATE TO THE ORIGINAL BID AND SHALL INCLUDE AND BE ACCOMPANIED WITH COMPLETE SPECIFICATIONS CUT SHEET SUBMITTAL AS OUTLINED IN THIS SPECIFICATION SECTION, COMPLETE WITH DESCRIPTIVE (MANUFACTURER, BRAND NAME, CATALOG NUMBER, ETC.) AND TECHNICAL DATA FOR ALL ITEMS. INDICATE ANY ADDITIONS OR DEDUCTIONS TO THE CONTRACT PRICE WITH THE SUBSTITUTION SUBMITTAL AND ON THE BID FORM.

- C. ACCEPTANCE OR REJECTION OF THE PROPOSED SUBSTITUTIONS SHALL BE SUBJECT TO APPROVAL OF THE ARCHITECT AND ENGINEER. IF REQUESTED, THE CONTRACTOR SHALL SUBMIT INSPECTION SAMPLES OF BOTH THE SPECIFIED AND THE PROPOSED SUBSTITUTE ITEMS.

- D. IF ANY SUBSTITUTIONS ARE APPROVED, AN ADDENDUM LISTING THE APPROVED ITEM(S) WILL BE ISSUED TO ALL BIDDING CONTRACTORS PRIOR TO THE BID DATE.

- E. IN ALL CASES WHERE SUBSTITUTIONS ARE PERMITTED, THE CONTRACTOR SHALL BEAR ANY EXTRA COST OF EVALUATING THE EQUALITY OF THE MATERIAL AND EQUIPMENT TO BE INSTALLED.

- F. WHERE ONLY ONE MAKE IS NAMED IN THE SPECIFICATIONS OR ON THE DRAWINGS, IT SHALL BE PROVIDED.

- G. VERBAL REQUESTS OR APPROVALS SHALL NOT BE BINDING ON THE ENGINEER OR OWNER.

1.11 QUALITY ASSURANCE

- A. ELECTRICAL COMPONENTS, DEVICES, AND ACCESSORIES: UNDERWRITER LABORATORIES, INC. (UL) LISTED AND LABELED AS DEFINED IN NFPA 70, ARTICLE 100, BY A TESTING AGENCY ACCEPTABLE TO AUTHORITIES HAVING JURISDICTION, AND MARKED FOR INTENDED USE.

1.12 SUBMITTALS

A. SHOP DRAWINGS AND PRODUCT DATA

1. PREPARE SHOP DRAWINGS AND PRODUCT DATA FOR ELECTRICAL EQUIPMENT WITH ADEQUATE DETAILS AND SCALES AS NECESSARY TO CLEARLY SHOW CONSTRUCTION, INDICATE OPERATING CHARACTERISTICS FOR EACH REQUIRED ITEM AND DESIGN CONDITIONS FOR EACH. CLEARLY IDENTIFY EACH ITEM ON THE DRAWINGS AS TO MAKE, LOCATION, AND USE.

2. THIS CONTRACTOR SHALL REVIEW, STAMP WITH APPROVAL AND SUBMIT, WITH REASONABLE PROMPTNESS AND IN ACCORDANCE WITH THE SCHEDULE, SO AS TO CAUSE NO DELAY IN WORK OR IN THE WORK OF ANY OTHER CONTRACTOR, ALL SHOP DRAWINGS AND SAMPLES REQUIRED BY THE CONTRACT DOCUMENTS. SHOP DRAWINGS NOT STAMPED WITH CONTRACTOR APPROVAL WILL BE RETURNED FOR REPROCESSING. THE SUBMITTALS WILL BE REVIEWED ONLY FOR GENERAL COMPLIANCE AND NOT FOR DIMENSIONS, QUANTITIES, ETC.

3. IF THE SUBMITTAL SHOWS VARIATIONS FROM THE REQUIREMENTS OF THE CONTRACT DOCUMENTS FOR ANY REASON, THE CONTRACTOR SHALL MAKE MENTION OF SUCH VARIATION IN A LETTER OF TRANSMITTAL. THE CONTRACTOR SHALL NOTE IN RED INK ON THE SUBMITTAL ANY CHANGE IN DESIGN OR DIMENSION ON THE ITEMS SUBMITTED INCLUDING CHANGES MADE BY THE MANUFACTURER WHICH MAY DIFFER FROM CATALOG INFORMATION.

4. CONTRACTOR FURTHER AGREES THAT IF DEViations, DISCREPANCIES, OR CONFLICTS BETWEEN SHOP DRAWING SUBMITTALS AND THE CONTRACT DOCUMENTS IN THE FORM OF DESIGN DRAWING AND SPECIFICATIONS ARE DISCOVERED, EITHER PRIOR TO OR AFTER SHOP DRAWING SUBMITTALS ARE PROCESSED BY THE ENGINEER, THE DESIGN DRAWINGS, AND SPECIFICATIONS SHALL CONTROL AND SHALL BE FOLLOWED.

5. THE SUBMITTALS THAT ARE RETURNED SHALL BE USED FOR PROCUREMENT. THE RESPONSIBILITY OF CORRECT PROCUREMENT REMAINS SOLELY WITH THE CONTRACTOR. THE SUBMITTAL REVIEW SHALL NOT RELIEVE THE CONTRACTOR OF RESPONSIBILITY FOR ERRORS OR OMISSIONS AND DEVIATIONS FROM THE CONTRACT REQUIREMENTS.

6. IN CHECKING SHOP DRAWINGS, THE ARCHITECT AND ENGINEER WILL MAKE EVERY EFFORT TO DETECT AND CORRECT ERRORS, OMISSIONS, AND INACCURACIES IN SUCH DRAWINGS. HOWEVER, FAILURE TO DETECT ERRORS, OMISSIONS, AND INACCURACIES SHALL NOT RELIEVE THE CONTRACTOR OF RESPONSIBILITY FOR THE PROPER AND COMPLETE INSTALLATION IN ACCORDANCE WITH THE INTENT OF THE CONTRACT DOCUMENTS.

7. CONTRACTOR AGREES THAT SHOP DRAWING SUBMITTALS PROCESSED BY THE ENGINEER ARE NOT CHANGE ORDERS. THAT THE PURPOSE OF SHOP DRAWING SUBMITTALS BY THE CONTRACTOR IS TO DEMONSTRATE TO THE ENGINEER THAT THE CONTRACTOR UNDERSTANDS THE DESIGN, THAT THEY DEMONSTRATE THEIR UNDERSTANDING BY INDICATING WHICH EQUIPMENT AND MATERIAL THEY INTEND TO FURNISH AND INSTALL, AND BY DETAILING THE FABRICATION AND INSTALLATION METHODS THEY INTEND TO USE.

8. SHOP DRAWINGS SHALL CLEARLY INDICATE ALL DIMENSIONAL DATA FOR ALL PARTS OF THE ITEM, TYPES AND MATERIALS FOR ALL CONNECTIONS, FINISHES, THE EXACT RELATION OF THE ITEM TO ADJACENT MATERIALS AND EQUIPMENT IN THE COMPLETED STRUCTURE INCLUDING CLEARANCE, ANY NECESSARY ISOLATION AND FASTENING METHODS AND DEVICES AND MECHANICAL AND ELECTRICAL CONNECTIONS.

9. SUBMIT NEWLY PREPARED INFORMATION, DRAWN TO ACCURATE SCALE, HIGHLIGHT, ENCLOSE, OR OTHERWISE INDICATE DEVIATIONS FROM THE CONTRACT DOCUMENTS. DO NOT REPRODUCE CONTRACT DOCUMENTS OR COPY STANDARD INFORMATION AS THE BASIS OF SHOP DRAWINGS. STANDARD INFORMATION PREPARED WITHOUT SPECIFIC REFERENCE TO THE PROJECT IS NOT CONSIDERED SHOP DRAWINGS AND WILL BE CAUSE FOR REJECTION.

10. SHOP DRAWINGS AND PRODUCT DATA SHALL BE SUBMITTED AS FOLLOWS:
- a. CONFORM TO SUBMITTAL REQUIREMENTS OUTLINED IN DIVISION 1 OF THESE SPECIFICATIONS.

- b. WHERE CONTENTS OF SUBMITTAL LITERATURE INCLUDE DATA NOT PERTINENT TO THE SUBMITTAL, CLEARLY INDICATE WHICH PORTION OF CONTENT IS BEING SUBMITTED FOR REVIEW.

11. SHOP DRAWINGS SHALL INCLUDE FABRICATION AND INSTALLATION DRAWINGS, SETTING DIAGRAMS, SCHEDULES, PATTERNS, TEMPLATES AND SIMILAR DRAWINGS. ALSO, INCLUDE THE FOLLOWING INFORMATION:

- a. DIMENSIONS.
- b. IDENTIFICATION OF PRODUCTS AND MATERIALS INCLUDED.
- c. COMPLIANCE WITH SPECIFIED STANDARDS.
- d. NOTATION OF COORDINATION REQUIREMENTS.
- e. NOTATION OF DIMENSIONS ESTABLISHED BY FIELD MEASUREMENT.

12. WHERE ADDITIONAL INSTALLATION DRAWINGS, WIRING DIAGRAMS, OR OTHER DRAWINGS ARE SPECIFIED AS A PART OF THE SUBMITTAL, THEY SHALL BE SUBMITTED AT THE SAME TIME WITH SHOP DRAWINGS AND PRODUCT DATA. PARTIAL SUBMITTALS ARE NOT ACCEPTABLE.

13. SHOP DRAWINGS SHALL BE SUBMITTED FOR ALL MATERIAL ITEMS AS OUTLINED IN THESE SPECIFICATIONS AND INFORMATION FROM CONTRACT REQUIREMENTS MUST BE CLEARLY INDICATED ON SHOP DRAWINGS AND JUSTIFICATION FOR THEIR CONSIDERATION MUST BE INCLUDED.

14. APPROVAL OF SUBMITTAL ITEMS SHALL NOT PRECLUDE REJECTION OF THOSE ITEMS UPON DISCOVERY OF DEFECTS IN THEM PRIOR TO FINAL ACCEPTANCE OF COMPLETE WORK.

15. WHEN TWO OR MORE ITEMS OF THE SAME EQUIPMENT ARE REQUIRED (I.E. – LUMINAIRES, WIRING DEVICES, ETC.), EQUIPMENT ITEMS SHALL BE OF THE SAME MANUFACTURER.

16. SUBMIT A MINIMUM OF SIX (6) COPIES OF SHOP DRAWINGS TO THE ARCHITECT. THE ARCHITECT AND ENGINEER SHALL EACH RETAIN ONE (1) COPY AND RETURN THE REMAINDER TO THE CONTRACTOR WHO SHALL DISTRIBUTE COPIES AS REQUIRED TO PROPERLY CONDUCT THE WORK, INCLUDING REQUIREMENTS OF THE OPERATING MANUAL.

17. SHOP DRAWINGS AND PRODUCT DATA INCLUDES:

- a. POWER DISTRIBUTION EQUIPMENT
- b. WIRING DEVICES
- c. LIGHTING CONTROL DEVICES
- d. LUMINAIRES, LAMPS, AND BALLASTS
- e. METER SOCKETS AND CT CABINET
- f. FIRE ALARM DEVICES AND SYSTEM MODIFICATION DRAWINGS DESIGNED AND STAMPED BY A STATE CERTIFIED FIRE ALARM SYSTEM DESIGNER, INCLUDING BUT NOT LIMITED TO THE FOLLOWING:

- i. BATTERY CALCULATIONS.
- ii. FLOOR PLANS INDICATING LOCATION OF ALL FIRE ALARM DEVICES.
- iii. VOLTAGE DROP CALCULATIONS FOR ALL WIRING AND WIRE TYPES.
- iv. MANUFACTURER MODEL NUMBER AND LISTING INFORMATION FOR ALL DEVICES AND WIRING ADJUSTABLE DELAY UP TO 30 SECONDS.
- v. LOCATION OF ALL REQUIRED SYNCHRONIZATION UNITS IF REQUIRED.
- vi. POWER EXTENDER PANELS, ADDRESSABLE MODULES, ETC.
- vii. EMERGENCY RADIO COMMUNICATION ENHANCEMENT SYSTEM

B. DESIGN DRAWINGS

1. THE DESIGN DRAWINGS, AS SUBMITTED, ARE DIAGRAMMATIC AND ARE NOT INTENDED TO SHOW EXACT LOCATION OF EQUIPMENT, CONDUITS, ETC. UNLESS DIMENSIONS AND/OR DIMENSIONS ARE SPECIFIED. THE DESIGN DRAWINGS ARE NOT TO BE INSTALLED ALONG THE GENERAL PLANS SHOWN ON THE DRAWINGS, BUT KEEPING IN MIND ACTUAL BUILDING CONDITIONS WHICH MUST BE CONFIRMED WITHIN THE ACTUAL WORK.

2. IF THIS CONTRACTOR PROPOSES TO INSTALL EQUIPMENT REQUIRING SPACE CONDITIONS OTHER THAN THOSE AS SPECIFIED AND/OR SHOWN ON THE DESIGN DRAWINGS, OR TO REARRANGE THE EQUIPMENT, THEY SHALL ASSUME FULL RESPONSIBILITY FOR THE REARRANGEMENT OF THE SPACE AND SHALL OBTAIN THE FULL APPROVAL OF THE ARCHITECT BEFORE PROCEEDING WITH THE WORK.

C. COORDINATION DRAWINGS

1. BEFORE BEGINNING CONSTRUCTION OF THE PROJECT, THE CONTRACTOR SHALL PROVIDE TO THE MECHANICAL CONTRACTOR MARKED UP PRINTS INDICATING ALL ELECTRICAL WORK WHICH AFFECTS LOCATION OF HEATING, VENTILATING, AIR CONDITIONING, PLUMBING PIPING, FIRE PROTECTION, AND DUCTWORK. REFER TO DIVISION 1 AND DIVISION 15 FOR RELATED WORK.
2. COORDINATION DRAWINGS: REFLECTED CEILING PLANS DRAWN TO SCALE AND COORDINATING PENETRATIONS AND CEILING-MOUNTED ITEMS. SHOW THE FOLLOWING:

- a. CEILING SUSPENSION ASSEMBLY MEMBERS.
- b. METHOD OF ATTACHING HANGERS TO BUILDING STRUCTURE.
- c. CEILING-MOUNTED ITEMS INCLUDING LIGHTING FIXTURES, EXIT SIGNAGE, FIRE ALARM DEVICES, CCTV, SPEAKERS, ACCESS PANELS, ETC.

D. RECORD DRAWINGS

1. EACH CONTRACTOR OR SUBCONTRACTOR FOR ELECTRICAL WORK SHALL KEEP ONE COMPLETE SET OF THE CONTRACT WORKING DRAWINGS ON THE PROJECT SITE AT WHICH THEY SHALL RECORD ANY DEVIATIONS OR CHANGES FROM SUCH CONTRACT WORKING DRAWINGS DURING CONSTRUCTION. THESE CHANGES SHALL BE ACCURATELY RECORDED IN RED INK ON THE PRINTS. RECORD DRAWINGS SHALL SHOW CHANGES IN:

- a. SIZE, TYPE, CAPACITY, ETC. OF ANY MATERIAL, DEVICE, OR PIECE OF EQUIPMENT.
- b. LOCATION OF ANY DEVICE OR PIECE OF EQUIPMENT.
- c. LOCATION OF ANY OUTLET OR DEVICE AND ASSOCIATED WIRING.
- d. ROUTING OF FEEDER CONDUITS.
- e. BRANCH CIRCUIT NUMBER ASSIGNMENTS.

2. RECORD DRAWINGS SHALL BE KEPT CLEAN AND UNDAUNAGED, AND SHALL NOT BE USED FOR ANY PURPOSE OTHER THAN RECORDING DEVIATIONS FROM WORKING DRAWINGS.

3. AFTER THE PROJECT IS COMPLETED, RECORD SETS OF DRAWINGS SHALL BE DELIVERED TO THE TENANT AND BUILDING MANAGEMENT IN GOOD CONDITION, AS A PERMANENT RECORD OF THE INSTALLATION AS CONSTRUCTED. ALL COSTS FOR PRODUCTION, PRINTING, ETC. SHALL BE BORNE BY THE CONTRACTOR AND SHALL BE INCLUDED IN THE BID.

4. REFER TO DIVISION 1 SPECIFICATIONS FOR ADDITIONAL REQUIREMENTS RELATED TO RECORD DRAWINGS.

5. THIS CONTRACTOR SHALL RECORD ALL CHANGES FROM ORIGINAL DESIGN DRAWINGS WHICH WERE MADE DURING THE INSTALLATION OF THE WORK. THESE CHANGES SHALL BE RECORDED IN RED INK ON THE PRINTS. CHANGES SHALL BE ACCURATELY DIMENSIONED.

6. THIS CONTRACTOR SHALL KEEP AN UPDATED SET OF PRINTS, INCLUDING CHANGES, ON THE JOB SITE AT ALL TIMES AND SHALL SUBMIT ONE (1) SET OF UPDATED AND LEGIBLE "AS-BUILT" PRINTS TO THE ARCHITECT WHEN THE WORK IS COMPLETE.

7. PREPARE RECORD DOCUMENTS IN ACCORDANCE WITH THE REQUIREMENTS IN DIVISION 1 SECTION "PROJECT CLOSEOUT."

8. IN ADDITION TO THE REQUIREMENTS SPECIFIED IN DIVISION 1, INDICATE THE FOLLOWING INSTALLED CONDITIONS (ACCURATELY DIMENSIONED):

- a. CONCEALED EQUIPMENT, UNITS, DEVICES, ETC., REQUIRING PERIODIC MAINTENANCE OR REPAIR.
9. APPROVED SUBSTITUTIONS, CONTRACT MODIFICATIONS AND ACTUAL EQUIPMENT AND MATERIALS INSTALLED. EQUIPMENT LOCATIONS (EXPOSED AND CONCEALED), DIMENSIONED FROM PROMINENT BUILDING LINES.

1.13 OPERATING/MAINTENANCE MANUALS

- A. PREPARE FOUR (4) COMPLETE BOUND SETS OF OPERATING/MAINTENANCE MANUALS IN ACCORDANCE WITH DIVISION 1 SECTION "PROJECT CLOSEOUT." CONTAINING OPERATING AND MAINTENANCE INSTRUCTIONS, AND MANUFACTURER START-UP REPORTS FOR ALL ELECTRICAL EQUIPMENT AND CONTROLS.

- B. SERVICE MANUALS SHALL BE ASSEMBLED INTO ONE VINYL COVERED THREE RING "D" TYPE BINDER WITH HARD COVER AND WITH WRITTEN INSTRUCTIONS FOR EACH SYSTEM LISTED IN THE SPECIFICATIONS.

- C. WRITTEN OPERATING INSTRUCTIONS, SUBMITTAL DRAWINGS, WIRING DIAGRAMS, EQUIPMENT CATALOG DATA SHEETS, AND MANUFACTURER'S INSTRUCTIONS SHALL BE ACCOMMODATED INTO 8-1/2" X 11" AND/OR 11" X 17" SIZE. EACH SECTION SHALL BE TABULATED AND INDEXED AS FOLLOWS:

1. FIRST PAGE ---- TITLE OF PROJECT, OWNER, ADDRESS, DATE OF SUBMITTAL, NAME OF CONTRACTOR, AND NAME OF ARCHITECT AND ENGINEER.

2. SECOND PAGE ---- INDEX

3. FIRST SECTION ---- WRITTEN DESCRIPTION OF SYSTEM CONDITIONS WHERE THE EQUIPMENT IS LOCALED IN BUILDING, HOW EACH PART FUNCTIONS INDIVIDUALLY, AND HOW SYSTEM WORKS AS A WHOLE. CONCLUDE WITH A LIST OF ITEMS REQUIRING SERVICE AND EITHER STATE THE SERVICE NEEDED OR REFER TO THE MANUFACTURER'S DATA IN THE BINDER THAT DESCRIBES THE PROPER SERVICE.

4. SECOND SECTION ---- A COPY OF EACH SUBMITTAL DRAWING WITH AN INDEX AT THE BEGINNING OF THE SECTION, AND A COPY OF EACH MANUFACTURER'S START UP REPORT FOR (FIRE ALARM, ETC.)

5. THIRD SECTION ---- A COPY OF EACH MANUFACTURER'S OPERATING INSTRUCTIONS WITH AN INDEX AT THE BEGINNING OF THE SECTION, AND A COPY OF EACH MANUFACTURER'S START UP REPORT FOR (FIRE ALARM, ETC.)

6. FOURTH SECTION ---- A COPY OF ALL TEST RESULTS, IN CHART FORM, PERFORMED BY THE CONTRACTOR

7. FIFTH SECTION ---- COPIES OF ALL WARRANTIES, APPROVALS, ETC.

8. SUBMIT ONE (1) COPY TO THE ENGINEER FOR APPROVAL. AFTER APPROVAL, SUBMIT THREE (3) COPIES TO THE ARCHITECT FOR DELIVERY TO THE OWNER.

1.14 PRODUCT DELIVERY, STORAGE, AND HANDLING

- A. DELIVER PRODUCTS TO THE PROJECT PROPERLY IDENTIFIED WITH NAMES, MODEL NUMBERS, TYPES, COMPLETION LABELS AND "SIMILAR INFORMATION NEEDED FOR IDENTIFICATION. MATERIALS MUST BE ADEQUATELY PACKAGED OR PROTECTED TO PREVENT DETERIORATION DURING SHIPMENT, STORAGE AND HANDLING.

- B. THE CONTRACTOR SHALL MAKE PROVISIONS FOR THE DELIVERY AND SAFE STORAGE OF THEIR MATERIALS AND EQUIPMENT IN COORDINATION WITH THE WORK OF OTHERS. MATERIALS AND EQUIPMENT SHALL BE DELIVERED AT SUCH STAGES OF THE WORK AS WILL EXPEDITE THE WORK AS A WHOLE AND SHALL BE MARKED AND STORED IN SUCH A WAY AS TO BE EASILY CHECKED AND INSPECTED. THE ARRIVAL AND PLACING OF LARGE EQUIPMENT ITEMS SHALL BE SCHEDULED EARLY ENOUGH TO PERMIT ENTRY AND SETTING WHEN THERE IS NO RESTRICTION OR PROBLEM DUE TO SIZE AND WEIGHT.

- C. MATERIALS SHALL BE STORED TO PROTECT THEM FROM INJURY PRIOR TO INSTALLATION. MATERIAL SHOULD NOT BE STORED DIRECTLY ON THE GROUND OR FLOOR AND SHALL BE KEPT AS CLEAN AND DRY AS POSSIBLE AND FREE FROM DAMAGE OR DETERIORATING ELEMENTS.

- D. IN GENERAL, DO NOT DELIVER ITEMS OF ELECTRICAL EQUIPMENT TO THE PROJECT SUBSTANTIALLY BEFORE THE TIME OF INSTALLATION. LIMIT EACH SHIPMENT OF BULK MATERIALS TO EQUIPMENT TO THE QUANTITIES NEEDED FOR INSTALLATION WITHIN 3-WEEKS OF RECEIPT.

1.15 PROTECTION OF WORK AND PROPERTY

- A. THE CONTRACTOR SHALL BE RESPONSIBLE FOR SAFEGUARDING WORK, PROPERTY, AND ADJACENT AREAS AGAINST DAMAGE. BOTH THE OWN AS WELL AS OTHERS, WITH WHICH THEY MAY COME INTO CONTACT IN THE PERFORMANCE OF THEIR WORK.

- B. STORED MATERIALS SHALL BE PROTECTED AGAINST DAMAGE FROM WEATHER. PIPE AND DUCT OPENINGS SHALL BE CLOSED WITH CAPS OR PLUGS DURING INSTALLATION. ALL FIXTURES AND EQUIPMENT SHALL BE COVERED AND PROTECTED AGAINST DAMAGE. ANY MATERIALS OR EQUIPMENT DAMAGED AT ANY STAGE IN THE CONSTRUCTION SHALL BE REPLACED OR REPAIRED AND AT THE FINAL COMPLETION, ALL WORK SHALL BE IN A CLEAN, UNBLESHEMISHED CONDITION.

- C. FURNISH INFORMATION TO GENERAL CONTRACTOR AS TO SIZE AND LOCATION OF ALL BUILT-IN OPENINGS REQUIRED; DO NOT CUT, REMOVE OR PIECE: GENERAL OR MECHANICAL INSULATION; FIRE RATED WALLS OR CEILINGS; OR STEEL WORK; WITHOUT PRIOR PERMISSION AND JUSTIFICATION.

1.16 CUTTING AND PATCHING

- A. GENERAL: ALL CUTTING AND PATCHING FOR THE INSTALLATION OF THIS BRANCH OF THE WORK SHALL BE THE RESPONSIBILITY OF THIS CONTRACTOR.

- B. PERFORM CUTTING AND PATCHING IN ACCORDANCE WITH DIVISION 1 SECTION "PROCEDURES, SEPARATE PRICES." IN ADDITION TO THE REQUIREMENTS SPECIFIED IN DIVISION 1, PERFORM CUTTING, FITTING AND PATCHING OF MECHANICAL EQUIPMENT AND MATERIALS REQUIRED TO:

1. INSTALL NEW WORK.
2. UNCOVER WORK TO PROVIDE FOR INSTALLATION OF ILL-TIMED WORK.
3. REMOVE AND REPLACE DEFECTIVE WORK.
4. REMOVE AND REPLACE WORK NOT CONFORMING TO REQUIREMENTS OF THE SPECIFICATIONS AND DRAWINGS ARE NOT TO BE SEALED. EQUIPMENT, CONDUIT, ETC. TO BE INSTALLED ALONG THE GENERAL PLANS SHOWN ON THE DRAWINGS, BUT KEEPING IN MIND ACTUAL BUILDING CONDITIONS WHICH MUST BE CONFIRMED WITHIN THE ACTUAL WORK.
5. INSTALL EQUIPMENT AND MATERIALS IN EXISTING STRUCTURE.
6. UPON WRITTEN INSTRUCTIONS FROM THE ENGINEER, UNCOVER AND RESTORE WORK TO PROVIDE FOR ENGINEER OBSERVATION OF CONCEALED WORK.
7. CUT, REMOVE AND LEGALLY DISPOSE OF SELECTED ELECTRICAL EQUIPMENT, COMPONENTS AND MATERIALS AS INDICATED, INCLUDING BUT NOT LIMITED TO REMOVAL OF CONDUITS AND CONDUITS, JUNCTION BOXES, LUMINAIRES AND TRIM, AND OTHER ELECTRICAL ITEMS MADE OBSOLETE BY THE NEW WORK.
8. PROTECTION OF INSTALLED WORK: DURING CUTTING AND PATCHING OPERATIONS, PROTECT ADJACENT INSTALLATIONS.
9. PROVIDE AND MAINTAIN TEMPORARY PARTITIONS OR DUST BARRIERS ADEQUATE TO PREVENT THE SPREAD OF DUST AND DIRTY TO ADJACENT AREAS.
10. ALL OPENINGS REQUIRED FOR THIS BRANCH OF WORK SHALL BE ACCOMPLISHED IN TIME TO BE INCORPORATED IN, AND BE COMPATIBLE WITH THE CONSTRUCTION PROGRAM, OTHERWISE THIS CONTRACTOR SHALL BE RESPONSIBLE AND PAY FOR ALL CHANGES MADE NECESSARY FOR THEIR FAILURE TO DO SO. PIPE HOLES IN FLOORS AND WALLS SHALL BE CORE DRILLED.
11. PATCH EXISTING FINISHED SURFACES AND BUILDING COMPONENTS USING NEW MATERIALS MATCHING EXISTING MATERIALS AND EXPERIENCED INSTALLERS. FOR INSTALLERS' QUALIFICATIONS, REFER TO THE MATERIALS AND METHODS REQUIRED FOR THE SURFACE AND BUILDING COMPONENTS BEING PATCHED.

1.17 FIRE STOPPING

- A. ANY CORE DRILLING OR CUTTING OF FIRE RATED FLOORS, SHAFTS AND WALLS SHALL BE FIRE STOPPED PRIOR TO FINISH PATCHING. ALL FIRE STOPPING MATERIALS SHALL BE UL "CLASSIFIED" INTUMESCENT COMPOUND, DEVICE, OR SHEET RATED TO FUNCTION FOR THE PURPOSE. ACCORDING TO INSTRUCTIONS PROVIDED. ALL PENETRATIONS IN 1-HOUR, 2-HOUR, AND 3-HOUR FIRE RATED WALLS, FLOORS OR PARTITIONS SHALL BE FIRE STOPPED WITH 1M BRP FIRE BARRIER CAULK (CP-25, OR COMPOSITE SHEET CS-195, OR EQUIVALENT. ALL PENETRATIONS SHALL BE SEALED IN ACCORDANCE WITH UL FIRE RESISTANCE VOLUME II.
2. MULTIPLE CONDUITS SHALL BE CONTAINED WITHIN A 28 GAUGE STEEL SLEEVE. CAULK CP-25 FILL MATERIAL TO A DEPTH OF 1" COMPLETELY AROUND THE STEEL SLEEVE. A NOMINAL 1/4" DIAMETER BEAD SHALL BE APPLIED ON BOTH SIDES OF WALL ASSEMBLY. A MINIMUM 1" THICKNESS OF MINERAL WOOL BATT INSULATION SHALL BE PACKED FIRMLY INTO THE STEEL SLEEVE ON BOTH SIDES OF WALL ASSEMBLY AS A PERMANENT FORM. PACKING MATERIAL SHALL BE RECESSED 5/8" FROM SURFACE OF WALL ON BOTH SIDES OF WALL ASSEMBLY. FILL RECESSED CAVITY WITH 1" OF CP-25 CAULK (UL SYSTEMS W1016).
3. A MINIMUM 1" THICKNESS OF MINERAL WOOL BATT INSULATION SHALL BE PACKED FIRMLY INTO THE MAXIMUM 2" ANNUAL SPACE AS A PERMANENT FORM. A MINIMUM OF 1" OF CP-25 CAULK SHALL FILL THE RECESSED CAVITY. (FOR WALLS, THIS SHALL BE APPLIED ON BOTH SIDES OF THE WALL) (UL SYSTEM CAJ1044).

4. COORDINATE WITH THE ARCHITECT FOR ALL EXACT MATERIAL AND RATINGS AND EXACT DETAILS FOR FIRE STOPPING MATERIALS AND INSTALLATIONS PER ALL NFPA AND UL REQUIREMENTS.

1.18 INTERFERENCES

- A. BEFORE INSTALLING ANY WORK, THIS CONTRACTOR SHALL SEE THAT IT DOES NOT INTERFERE WITH CLEARANCE REQUIRED FOR LIGHTS, CONDUIT, AND CEILINGS AND FOR FINISHES ON BEAMS, CEILING JOISTS, WALLS OR OTHER STRUCTURAL OR ARCHITECTURAL MEMBERS, AS SHOWN ON CONTRACT DRAWINGS. IF ANY WORK IS SO INSTALLED AND IT LATER DEVELOPS THAT ORIGINAL DESIGN CANNOT BE FOLLOWED, THIS CONTRACTOR SHALL, AT THEIR OWN EXPENSE, MAKE SUCH CHANGES IN THEIR WORK AS ARCHITECT MAY DIRECT TO PERMIT COMPLETION OF WORK IN ACCORDANCE WITH PLANS AND SPECIFICATIONS.

- B. INSTALL ADDITIONAL OFFSETS ON PIPING OR DUCTWORK WHERE REQUIRED TO OBTAIN MAXIMUM HEADROOM OR TO AVOID CONFLICT WITH OTHER WORK WITHOUT ADDITIONAL COST TO OWNER.

1.19 INTERRUPTION OF SERVICE

- A. WHEN WORK PROGRESS MAKES TEMPORARY SHUTDOWN OF SERVICES UNAVOIDABLE, SHUTDOWN SHALL BE COORDINATED WITH AND APPROVED BY OWNER SO AS TO CAUSE MINIMUM DISRUPTION TO ESTABLISHED OPERATING ROUTINE. ARRANGE TO ADVISE AS NECESSARY TO RE-ESTABLISH SERVICE WITHIN SHORTEST POSSIBLE DOWNTIME. IN THOSE INSTANCES WHERE THE LENGTH OF TIME REQUIRED FOR THE SERVICE INTERRUPTION IS NOT ACCEPTABLE TO THE OWNER, UNLESS OTHERWISE INDICATED, FURNISH AND INSTALL TEMPORARY CONNECTIONS AS REQUIRED TO REDUCE THE LENGTH OF TIME OF SERVICE INTERRUPTION TO AN ACCEPTABLE LEVEL.

- B. REPORT ANY INTERFERENCE BETWEEN WORK UNDER THIS DIVISION AND THAT OF ANY OTHER CONTRACTOR TO THE ARCHITECT AS SOON AS THEY ARE DISCOVERED. ARCHITECT WILL DETERMINE WHICH EQUIPMENT SHALL BE RELOCATED, REGARDLESS OF WHICH WAS FIRST INSTALLED, AND THEIR DECISION SHALL BE FINAL.

1.20 WORKMANSHIP

- A. WORKMANSHIP SHALL BE IN ACCORDANCE WITH THE BEST PRACTICES OF THE TRADE AND IN A WORK LIKE MANNER AND SHALL NEAT AND RECTILINEAR TO FINISHES.

- B. ELECTRICAL WORK SHALL BE INSTALLED BY JOURNEMEN ELECTRICIANS UNDER THE SUPERVISION OF A COMPETENT FOREMAN.

1.21 DEMONSTRATION OF COMPLETE ELECTRICAL SYSTEM

5. FOR 600A RATED PANELS, PANEL SHALL BE ABLE TO ACCEPT 225A BRANCH BREAKER AT A MINIMUM. FOR 800A AND ABOVE RATED PANELS, PANEL SHALL BE ABLE TO ACCEPT 400A BRANCH BREAKERS AT A MINIMUM.

F. BRANCH CIRCUIT PANELBOARDS

1. THE MINIMUM SHORT-CIRCUIT RATING FOR BRANCH CIRCUIT PANELBOARDS SHALL BE AS SPECIFIED HEREIN OR AS INDICATED ON THE DRAWINGS. PANELBOARDS SHALL BE FULLY RATED.

2. BOLT-ON TYPE, HEAVY-DUTY, QUICK-MAKE, QUICK-BREAK, SINGLE AND MULTI-POLE CIRCUIT BREAKERS OF THE TYPES SPECIFIED HEREIN, SHALL BE PROVIDED FOR EACH CIRCUIT WITH TOGGLE HANDLES THAT INDICATE WHEN UNIT HAS TRIPPED.

3. CIRCUIT BREAKERS SHALL BE THERMAL-MAGNETIC TYPE WITH COMMON TYPE HANDLE FOR ALL MULTIPLE POLE CIRCUIT BREAKERS. CIRCUIT BREAKERS SHALL BE MINIMUM 100-AMPERE FRAME AND THROUGH 100-AMPERE TRIP SIZES SHALL TAKE UP THE SAME POLE SPACING. CIRCUIT BREAKERS SHALL BE UL LISTED AS TYPE 'SMD' FOR LIGHTING CIRCUITS, AND UL LISTED AS TYPE 'HACR' FOR HEATING, AIR-CONDITIONING AND REFRIGERATING EQUIPMENT.

4. CIRCUIT BREAKER HANDLE LOOKS SHALL BE PROVIDED FOR ALL CIRCUITS THAT SUPPLY EXIT SIGNS, EMERGENCY LIGHTS, ENERGY MANAGEMENT, AND CONTROL SYSTEM (EMCS) PANELS AND FIRE ALARM PANELS.

4. BRANCH CIRCUIT BREAKERS SHALL HAVE A MINIMUM INTERRUPTING RATING OF 10,000 AMPERES SYMMETRICAL AT 240 VOLTS AND 14,000 AMPERES SYMMETRICAL AT 480 VOLTS.

H. ENCLOSURE

1. ENCLOSURES SHALL BE AT LEAST 24 INCHES WIDE X 10 INCHES DEEP, MADE FROM GALVANIZED STEEL, PROVIDE MINIMUM GUTTER SPACE IN ACCORDANCE WITH THE NATIONAL ELECTRICAL CODE, WHERE FEEDER CABLES SUPPORTING THE MAINS OF A PANEL ARE CARRIED THROUGH ITS BOX TO SUPPLY OTHER ELECTRICAL EQUIPMENT, THE BOX SHALL BE SIZED TO INCLUDE THE ADDITIONAL REQUIRED WIRING SPACE. AT LEAST FOUR INTERIOR MOUNTING STUDS WITH ADJUSTABLE NUTS SHALL BE PROVIDED.

2. ENCLOSURES SHALL BE PROVIDED WITH BLANK ENDS.

3. EXTERIOR MOUNTED PANELBOARD SHALL BE NEMA 3R AND RATED FOR EXTERIOR APPLICATIONS

I. SERVICE ENTRANCE LABEL

1. EQUIPMENT WITH MAIN SERVICE DISCONNECT SWITCH(ES) SHALL BE UL LABELED FOR USE AS SERVICE ENTRANCE EQUIPMENT.

J. FUTURE DEVICES

1. PANELBOARDS SHALL BE FULLY PROVIDED WITH ALL NECESSARY MOUNTING BRACKETS, BUS CONNECTIONS AND APPURTENANCES REQUIRED FOR INSTALLATION OF FUTURE DEVICES.

K. ACCESSORY COMPONENTS AND FEATURES

1. PROVIDE ACCESSORY SET INCLUDING TOOLS AND MISCELLANEOUS ITEMS REQUIRED FOR OVERCURRENT PROTECTIVE DEVICE TEST, INSPECTION, MAINTENANCE AND OPERATION.

L. NAMEPLATES

1. PROVIDE AN ENGRAVED NAMEPLATE FOR EACH PANEL SECTION.

M. WARNING LABEL

1. PROVIDE ARC-FLASH HAZARD WARNING LABEL FOR EACH PANEL SECTION PER NATIONAL ELECTRIC CODE (N.E.C.) ARTICLE 110.1.6.

N. FINISH

1. SURFACES OF THE TRIM ASSEMBLY SHALL BE PROPERLY CLEANED, PRIMED, AND A FINISH COAT OF GRAY ANSI 61 PAINT APPLIED.

5 FIRE ALARM SYSTEM

A. DESCRIPTION

1. PROVIDE ALL LABOR, MATERIAL, EQUIPMENT, TOOLS, AND SERVICES NECESSARY FOR, AND INCIDENTAL TO, THE PROPER INSTALLATION OF THE AUTOMATIC FIRE DETECTION AND ALARM SYSTEM HEREIN SPECIFIED, AND AS SHOWN ON THE CONSTRUCTION DOCUMENTS.

2. IN ORDER TO OBTAIN PROPER OPERATION, IF THE MANUFACTURER REQUESTS A GREATER NUMBER OF WIRE CABLES THAN SPECIFIED HEREIN, THE MANUFACTURER SHALL INFORM CONTRACTORS DURING BIDDING PHASE, AND THE CONTRACTORS SHALL INCLUDE IN THEIR BIDS ALL COSTS FOR THE NECESSARY ADDITIONAL WIRING AND LARGER CONDUITS. SUCH ADDITIONAL WIRING REQUIREMENTS SHALL BE SPECIFICALLY NOTED ON SHOP DRAWINGS.

B. QUALITY ASSURANCE

1. THE FIRE ALARM SYSTEM SHALL CONFORM TO THE REQUIREMENTS OF THE NATIONAL ELECTRICAL CODE (N.E.C.), NEMA, AND UL. NAMEPLATES SHALL BE LABELED WITH THE UNDERWRITERS LABORATORIES SEAL OF INSPECTION.

2. EQUIPMENT AND INSTALLATION SHALL COMPLY WITH ALL REQUIREMENTS OF THE REGULATORY AGENCIES AND SHALL CONFORM TO STATE CODE, LOCAL CODES AND ORDINANCES AND REQUIREMENTS OF THE LOCAL CITY FIRE DEPARTMENT.

3. INTEGRATED EQUIPMENT RATING TESTS SHALL BE FACTORY PERFORMED FOR PROPER SYSTEM OPERATION, ENCLOSURE STABILITY, AND DIELECTRIC STRENGTH.

C. FABRICATION AND MANUFACTURE

1. THIS CONTRACTOR SHALL PROVIDE A COMPLETE BUILDING GENERAL ALARM, ADDRESSABLE, SUPERVISED FIRE ALARM SYSTEM, WITH BATTERY BACKUP, COVERED BY THESE SPECIFICATIONS, TO BE WIRED, CONNECTED AND LEFT IN FIRST CLASS OPERATING CONDITION. THE CATALOG NUMBERS SPECIFIED ARE THOSE OF SILENT KNIGHT FAHREHNT, AS FURNISHED BY LIFE SAFETY SYSTEMS LLC (216) 391-4840 AND CONSTITUTE THE TYPE AND QUALITY TO BE FURNISHED. EQUIVALENT SYSTEMS BY NOTIFIER, OR GEMWELL-FCI WILL BE ACCEPTABLE, BUT MUST BE SO STATED AT TIME OF BIDDING.

2. THE FIRE ALARM STATIONS SHALL BE ADDRESSABLE SINGLE ACTION, PULL HANDLE, SILENT KNIGHT MODEL SD505-PS, SEM-FLASH MOUNTED. EACH STATION SHALL BE PROVIDED WITH A KEY OPERATED TEST SWITCH AND SHALL BE UL LISTED AND LABELED. THE FRONT OF THE STATION SHALL BE HINGED AND MUST BE OPERATED TO RESET THE STATION.

3. THE ALARM SIGNALS SHALL BE AUDIOVISUAL. HORN DEVICE, GENTEX MODEL GC324WR HORN VISUAL APPLIANCE FOR FIRE ALARM SYSTEM NOTIFICATION. THE APPLIANCE SHALL BE MULTI COLORED WITH PHOTO-Diode PRINCIPLE SENSORS, ADDRESSABLE AS REQUIRED BY THE AMERICANS WITH DISABILITIES ACT (ADA). THE APPLIANCE SHALL BE UL LISTED TO STANDARD 1971. THE LIGHT UNIT SHALL BE OF AOS POLYCARBONATE AND THE LENS IS HIGH GRADE, OPTICAL QUALITY LEXAN. A SPECIAL COMPOUND REFLECTOR SHALL BE UTILIZED TO MAXIMIZE AND BEST DISTRIBUTE THE LIGHT PATTERN IN KEY AXIS DIRECTIONS.

- a. THE EFFECT OF THE ILLUMINATED VISIBLE APPLIANCE SHALL BE OBSERVABLE IN A CIRCUMFARIAL PATTERN. THE VISIBLE APPLIANCE SHALL BE LABELED WITH THE WORD "FIRE" IN A CONTRASTING COLOR.

- b. THE AUDIBLE PORTION OF THE APPLIANCE SHALL BE A SINGLE FREQUENCY ELECTRONIC OPTICALLY CONTROLLED VIBRATING HORN RATED AT 87DBA AT 10-FEET. FREQUENCY RESPONSE SHALL BE 2000HZ NOMINAL.

4. THE CEILING MOUNTED ANALOG SMOKE SENSORS SHALL BE SILENT KNIGHT MODEL SD505-APS, SENSORS SHALL BE OF THE SOLID STATE PHOTO-ELECTRIC TYPE, AND SHALL OPERATE ON LIGHT SCATTERING, PHOTO-Diode PRINCIPLE. SENSORS SHALL BE LISTED BY UNDERWRITERS LABORATORIES AND APPROVED BY FACTORY MUTUAL UNDER THE CURRENT STANDARDS FOR PHOTO-ELECTRIC TYPE SMOKE SENSORS FOR EASE OF MAINTENANCE AND INSTALLATION. SENSORS SHALL BE DESIGNED FOR TWIST LOCK MOUNTING TO A SEPARATE BASE ASSEMBLY HAVING SCREW TERMINALS FOR EXTERNAL WIRING CONNECTIONS.

5. MODEL SD505-GAB ADDRESSABLE BASE SHALL BE PROVIDED WITH EACH SMOKE AND HEAT SENSOR UNLESS OTHERWISE NOTED ON THE PLANS. EACH SENSOR BASE ASSEMBLY SHALL BE EQUIPPED WITH AN OPTIONAL LOCKING MECHANISM TO PREVENT UNAUTHORIZED REMOVAL OF THE SENSOR AND SHALL MOUNT ON A STANDARD 3-1/2" ROUND, 4" SQUARE OR OCTAGONAL OUTLET BOX. BOX DEPTH SHALL BE SELECTED ON THE BASIS OF THE NUMBER OF CONDUCTORS CONNECTED IN ACCORDANCE WITH THE REQUIREMENTS OF THE NATIONAL ELECTRICAL CODE.

6. HEAT SENSORS, WHERE SHOWN ON THE CONSTRUCTION DOCUMENTS, SHALL BE SILENT KNIGHT MODEL SD505-AHS. MOUNT TO SD505-GAB SENSOR BASE.

7. THE DUCT SMOKE SHALL BE SILENT KNIGHT MODEL SD505-ADHR WITH APPROPRIATE SAMPLING TUBES. ALL DUCT SMOKE SENSORS SHALL HAVE A MODEL SD505-DTS REMOTE ALARM AUDIBLE AND VISUAL INDICATOR AND TEST STATION.

8. VISUAL FLASHING LAMPS (XENON STROBE) SHALL BE GENTEX GES324WR ADA UL 1971 LISTED.

D. DEVICES AND SYSTEM OPERATION

1. THE FIRE ALARM SYSTEM SHALL BE AS DESCRIBED HEREIN AND AS SHOWN ON THE CONSTRUCTION DOCUMENTS. ACTUATION OF ANY ALARM INITIATING DEVICE SHALL CAUSE ALL AUDIBLE ALARM DEVICES TO SOUND CONTINUOUSLY. ALARM INITIATING DEVICES SHALL BE GROUNDED IN ZONES. ANY ZONE INVOLVED IN AN ALARM SHALL BE INDICATED BY A LIGHTED RED LED ON THE ZONE MODUL INVOLVED. THE ACTUATION OF ANY ALARM INITIATING DEVICE SHALL ALSO SHUTDOWN CERTAIN MANUAL STATION OR PROPER OPERATION OF ALARM, NON-INTERFERENCE OF THE SUCCESSIVE ALARMS, A PROPER SHUTDOWN OF THE VENTILATION EQUIPMENT, IF REQUIRED. THE RESULTS OF THE TESTS SHALL BE RECORDED AND SHALL BE INCLUDED IN THE OPERATING AND MAINTENANCE MANUAL.

2. THE GENERAL ALARM DEVICES MAY BE SILENCED BY AUTHORIZED PERSONNEL ONLY BY ENTERING A LOCKED CONTROL CABINET AND OPERATING THE GENERAL SILENCING SWITCH, BUT ANY SUBSEQUENT ALARMS SHALL SOUND ALL SIGNALS. OPERATION OF THIS SWITCH SHALL BE INDICATED BY A TROUBLE LIGHT AND AUDIBLE SIGNAL. SYSTEM SHALL BE COMPLETELY SUPERVISED, AND ANY OPEN, SHORT, OR GROUNDED CONDITION SHALL CAUSE THE TROUBLE LIGHT TO BE ILLUMINATED AND THE TROUBLE SIGNAL TO SOUND. THIS SHALL REMAIN UNTIL TROUBLE CONDITION HAS BEEN CORRECTED.

3. THE MAIN FIRE ALARM CONTROL PANELS SHALL BE SILENT KNIGHT FAHREHNT IFF 100 AND 1000 WITH A 40 CHARACTER LCD ANNUNCIATOR INSTALLED WHERE INDICATED ON THE CONSTRUCTION DOCUMENTS. ALL ZONE LIGHTS, TROUBLE LIGHTS, TROUBLE SIGNALS, SILENCING SWITCHES AND LIGHTS, AND RESET SWITCHES SHALL BE MOUNTED IN SURFACE CABINET AND CONTAIN THE FOLLOWING ITEMS:

- GREEN POWER ON LIGHT
- MANUAL EVACUATION SWITCH
- SYSTEM RESET SWITCH
- TRUBLE LIGHTS
- TROUBLE SILENCING SWITCH
- TONE ALERT TROUBLE SIGNAL
- AUXILIARY RELAYS WITH SPARE SWITCHES
- PROVISION FOR REMOTE REPORT

4. ZONES SHALL BE AS INDICATED ON CONSTRUCTION DOCUMENTS. A SCHEDULE OF ANNUNCIATION ENGRAVING SHALL BE FURNISHED FOR ARCHITECT'S AND ENGINEER'S APPROVAL. MAIN CONTROL PANEL SHALL HAVE CAPACITY TO INDICATE ZONES IN THIS BUILDING PLUS REMOTE REPORTS FROM FUTURE BUILDINGS, AND FROM THE GENERATOR, FIRE PUMP AND TRANSFER SWITCHES.

5. CONTROL MODULES SHALL BE PROVIDED FOR THE OPERATING AND INDICATING FUNCTIONS OF THE FIRE ALARM SYSTEM. THESE FUNCTIONS SHALL INCLUDE: SYSTEM RESET, ALARM LOCK-IN, ALARM RESOUND, ACKNOWLEDGE SWITCH, EARTH LED, SYSTEM TROUBLE LED, TONE ALERT, AND LED TEST. UPON HAVING DETECTED AN ALARM CONDITION, A ZONE SHALL REPORT ITS STATUS TO THE CONTROL MODULE. THIS ALARM CONDITION SHALL CAUSE THE ALARM TO BE DISPLAYED ON THE LCD. DEPENDING UPON SYSTEM OPERATION, IT SHALL ALSO CAUSE THE SOUNDING OF ALARM SIGNALS, THE ACTIVATION OF THE GEMWELL BOX, OR THE OPERATION OF THE FAI CONTROL RELAYS. WHEN THE ACKNOWLEDGE SWITCH IS PRESSED, THE ZONE'S ALARM LED SHALL CEASE TO FLASH AND REMAIN ILLUMINATED. AT THIS TIME, THE SIGNALS SHALL ALSO BE SILENCED. THE ACTIVATION OF ANOTHER ZONE SHALL REPEAT THE ENTIRE ALARM PROCESS, THIS CAUSING THE SIGNALS TO "RESOUND". ALL ALARM AND TROUBLE EVENTS SHALL BE AUTOMATICALLY STORED INTO THE SYSTEM HISTORY LOG AND MAY BE REVIEWED BY OPERATOR WITH PROPER AUTHORIZATION CODE.

6. THE ZONE ALARM INITIATING CIRCUIT MODULES SHALL PROVIDE EIGHT ELECTRICALLY SUPERVISED NORMALLY OPEN CIRCUITS PER MODULE FOR CURRENTLY LIMITED DEVICES MONITORING FOR ALARM. TROUBLE, AND BATTERY LOW, AND NORMAL FAULT. EACH MODULE SHALL PROVIDE LCD ANNUNCIATION FOR ALARM, OPEN, TROUBLE, ANNUNCIATOR OUTPUTS, ALARM AND TROUBLE PRINTER OUTPUTS, AUXILIARY ALARM CONTACTS (N/2 - 2 AMBER, RED, GREEN, AND BLUE), AND TROUBLE RESOUND WITH FLASHING ACKNOWLEDGE (FROM CONTROL). THE MODULE SHALL BE CAPABLE OF POWERING CURRENT LIMITED TWO-WIRE SMOKE SENSORS. THE MODULE SHALL BE COMPLETELY PLUGGABLE AND INHERENTLY POWER LIMITED (LIMITED ENERGY). PROVIDE THE NUMBER OF ZONES REQUIRED PLUS TEN PERCENT ACTIVE SPARES. THE COMMUNICATING DEVICE MODULE SHALL PROVIDE 127 ADDRESSES FOR MONITOR OR CONTROL POINTS PER LOG.

7. THE NAC SIGNAL CIRCUITS SHALL BE CAPABLE OF SUPPLYING A MINIMUM OF (2.5) AMPERES OF SIGNAL CAPACITY TO EACH OF THE SIGNAL CIRCUITS. IT SHALL SUPPLY POWER VIA A TWO-WIRE SUPERVISED CIRCUIT AND INDICATE OPEN OR SHORTED FAULTS ON THE LCD ANNUNCIATOR. EACH SHALL BE PROTECTED BY A FUSE.

8. THE POWER SUPPLY MODULE SHALL SUPPLY 6 AMPERES OF CONTINUOUS FILTERED POWER OF THE PROPER VOLTAGE. THE POWER SUPPLY SHALL BE CAPABLE OF FURNISHING THE SYSTEM POWER AND POWER FOR DEVICES SUCH AS SMOKE SENSORS, AUXILIARY RELAYS, DOOR HOLDERS, ETC. IT SHALL CONTAIN A NORMAL BATTERY TROUBLE, AND POWER SUPPLY TROUBLE, ANNUNCIATION ON THE LCD ANNUNCIATOR ALL VIEWABLE ON FRONT OF ENCLOSURE. A 250 VA TRANSFORMER SHALL BE PROVIDED IN THE CONTROL PANEL.

9. AN AUTOMATIC DUAL-RATE BATTERY CHARGER MODULE SHALL BE INSTALLED IN THE CONTROL PANEL WHICH SHALL BE CAPABLE OF CHARGING EITHER A GEL OR WET CELL BATTERY. A CONSTANT TRICKLE CHARGE SHALL CONTINUOUSLY BE APPLIED TO THE BATTERY IN ORDER TO MAINTAIN IT AT FULL CHARGE STATE. A METHOD OF ADJUSTING THE TRICKLE CHARGE RATE SHALL ALSO BE PROVIDED IN ORDER TO SUPPLY THE SELECTED BATTERY WITH THE EXACT CHARGE RATE IT REQUIRES. IN THE EVENT OF A FAILURE OF THE CHARGER, THE CHARGER FAILURE LCD SHALL ILLUMINATE. SHOULD THE BATTERY CAPACITY DROP BELOW THE REQUIRED LEVEL, THE RESPONSE SHALL BE IMMEDIATELY TO HIGH RATE CONDITION, AND AN LCD SHALL ILLUMINATE. MAINTENANCE FREE BATTERIES SHALL BE PROVIDED TO DELIVER 24-HOURS OF STANDBY POWER.

10. A BATTERY MONITOR MODULE SHALL BE PROVIDED TO MONITOR THE CHARGER AND THE BATTERY MOUNTED WITHIN THE CONTROL PANEL. SHOULD THE BATTERY VOLTAGE BECOME EXCESSIVELY LOW, THE BATTERY MONITOR SHALL BE ALERTED AT ALL THE SYSTEM TROUBLE MODULE SHALL BE ACTIVATED AND THE BATTERY TROUBLE LCD SHALL ILLUMINATE.

11. THE AUXILIARY FLEXPLUTS SHALL HAVE THE ABILITY TO BE CONFIGURED FOR NAC, INITIATING ZONE, OR RELAY OUTPUT RATED AT 3 AMPERES. THESE RELAYS SHALL BE USED FOR OPERATING EXTERNAL CIRCUITS INDEPENDENT OF THE FIRE ALARM SYSTEM (I.E., FAN CONTROLS, DOOR RELEASE, ETC.).

12. THE CONTROL CABINET SHALL BE SURFACE MOUNTED AND ACCOMMODATE ALL THE MODULES, RELAYS, TERMINAL CONNECTIONS, AND BATTERIES NECESSARY FOR THE PROPER OPERATION OF THE SYSTEM. THE ENCLOSURE SHALL BE EQUIPPED WITH AN OUTER DOOR AND FRAME ASSEMBLY WHICH SHALL BE FITTED WITH A LOCK AND A TRANSPARENT DOOR PANEL, TO PERMIT FULL VIEWING OF THE VARIOUS MODULE LIGHTS AND SWITCHES.

13. REMOTE ANNUNCIATOR - THE SERIAL ANNUNCIATOR SHALL PROVIDE AN ALPHANUMERIC, 80 CHARACTER LIQUID CRYSTAL DISPLAY (LCD) THAT PROVIDES CLEAR LANGUAGE INFORMATION AS TO THE IFF PANEL POINT STATUS (ALARM, TROUBLE, ETC.), TYPE OF ALARM (SMOKE SENSOR, PULL STATION, ETC.), NUMBER OF ALARMS ON THE SYSTEM, AND CUSTOM LOCATION LABEL. THE ANNUNCIATOR(S) SHALL HAVE A GREY OR RED FINISH AS DIRECTED BY THE ARCHITECT. THE ANNUNCIATOR SHALL COMMUNICATE TO THE CONTROL PANEL OVER A CONDUCTOR #16AWG WIRE AND OPERATING POWER SHALL BE 24 VDC AND BE FUSED AT THE CONTROL PANEL. POINT WIRED ANNUNCIATORS WILL NOT BE CONSIDERED AS EQUAL. STATUS INFORMATION OF EACH DEVICE MAY BE INDIVIDUALLY DISPLAYED TO INVESTIGATE SPECIFIC POINT DETAIL. REMOTE ANNUNCIATOR MAY NOT BE REQUIRED ON ALL PROJECTS; REFER TO FIRE ALARM RISER DIAGRAM.

- a. PROGRAMMABLE CONTROL SHALL BE PROVIDED FOR THE FOLLOWING FUNCTIONS:
- SYSTEM RESET
 - ALARM SILENCE
 - TROUBLE SILENCE
 - MANUAL EVACUATION
 - CITY DISCONNECT

E. INSTALLATION

1. EXAMINE AREA TO RECEIVE MAIN CONTROL PANEL TO ASSURE ADEQUATE SPACE AND CLEARANCES.

2. THE CONTRACTOR SHALL FURNISH AND INSTALL IN ACCORDANCE WITH THE MANUFACTURER'S INSTRUCTIONS ALL WIRING, CONDUIT, AND OUTLET BOXES FOR THE ERECTION OF A COMPLETE SYSTEM AS DESCRIBED HEREIN AND AS SHOWN ON THE CONSTRUCTION DOCUMENTS. ALL WIRING SHALL BE IN CONDUIT OF THE SAME APPROVED TYPE AS USED FOR ELECTRIC LIGHT AND POWER WIRING, AND SHALL BE THOSE SPECIFIED BY THE MANUFACTURER. BEFORE INSTALLATION, A COLOR CODING SYSTEM SHALL BE COORDINATED WITH THE MANUFACTURER AND ADHERED TO THROUGHOUT THE INSTALLATION. COLOR CODES SHALL BE USED AND ALL WIRES SHALL BE TAGGED AT ALL JUNCTION POINTS AND SHALL TEST FREE FROM GROUND OR CROSSES BETWEEN CONDUCTORS. FINAL CONNECTIONS SHALL BE MADE UNDER THE DIRECT SUPERVISION OF THE MANUFACTURER'S FACTORY TRAINED TECHNICAL REPRESENTATIVE.

3. ALL JUNCTION BOXES SHALL BE PROVIDED WITH NUMBERED TERMINAL STRIPS. NO OTHER TYPES OF SPLICES WILL BE PERMITTED.

4. AN AS-BUILT DRAWING OF THE FIRE ALARM SYSTEM SHALL BE PROVIDED UPON COMPLETION OF THE FIRE ALARM INSTALLATION SHOWING ALL DEVICES, NUMBER AND SIZE OF CONDUCTORS, COLOR CODE SYSTEM, ETC. AND TO BUILDING PLANS. ALL WIRING SHALL BE IN ACCORDANCE WITH THE FIRE ALARM MANUFACTURER'S RECOMMENDATIONS TO THE NATIONAL ELECTRICAL CODE.

5. A QUALIFIED ENGINEER, APPROVED BY THE ARCHITECT, SHALL BE PROVIDED BY THE MANUFACTURER TO SUPERVISE THE ENTIRE MECHANICAL AND ELECTRICAL INSTALLATION, AS WELL AS TO ALSO THOROUGHLY INSTRUCT THE RESPONSIBLE PERSONNEL OF THE OWNER IN THE PROPER OPERATION AND MAINTENANCE OF THE EQUIPMENT.

6. CONTRACTOR SHALL PROVIDE A CERTIFICATE OF INSPECTION AND OPERATION FROM THE SUPPLIER BEFORE THE REQUEST FOR FINAL PAYMENT IS MADE.

F. FIELD QUALITY CONTROL

1. WIRING SHALL BE CHECKED AND TESTED BY THE CONTRACTOR IN ACCORDANCE WITH THE INSTRUCTIONS PROVIDED BY THE MANUFACTURER TO INSURE THAT THE SYSTEM IS FREE FROM GROUNDS, SHORTS, OPEN, AND THAT THE INSULATION RESISTANCE BETWEEN CURRENT CARRYING CONDUCTORS IS 10 MEGOHMS OR GREATER.

2. THE SENSITIVITY OF EACH SENSOR SHALL BE CHECKED AND RECORDED IN MEMORY AFTER SENSORS HAVE BEEN INSTALLED. ANY SENSORS FOUND TO BE OUT OF TOLERANCE SHALL BE ADJUSTED OR REPLACED. THE RECORDED DATA SHALL BE INCLUDED IN THE OPERATING AND MAINTENANCE MANUAL.
3. THE SYSTEM SHALL BE TESTED BY AN ENGINEERING REPRESENTATIVE OF THE FIRE ALARM SYSTEM MANUFACTURER UPON THE COMPLETION OF THE INSTALLATION. EACH ZONE SHALL BE TESTED BY ACTIVATING AN AREA SENSOR, DUCT SENSOR, AND MANUAL STATION OR PROPER OPERATION OF ALARM, NON-INTERFERENCE OF THE SUCCESSIVE ALARMS, A PROPER SHUTDOWN OF THE VENTILATION EQUIPMENT, IF REQUIRED. THE RESULTS OF THE TESTS SHALL BE RECORDED AND SHALL BE INCLUDED IN THE OPERATING AND MAINTENANCE MANUAL.

4. THE FIRE PUMP AND ALL CONTROLS ARE EXISTING. THE CONTRACTOR UNDER THIS DIVISION SHALL PROVIDE FOR MONITORING AND REMOTE ANNUNCIATION OF SEVERAL OPERATIONAL POINTS ASSOCIATED WITH THE FIRE PUMP. THE POINTS SHALL BE ANNUNCIATED OF THE FIRE PUMPS OPERATIONAL FUNCTIONS SHALL INCLUDE BUT NOT BE LIMITED TO THE FOLLOWING:
- FIRE PUMP RUNNING
 - LOW SUCTION PRESSURE
 - POWER AVAILABLE

5. AN ALARM SIGNAL SHALL BE CAPABLE OF RETRANSMISSION DIRECTLY TO SECURITY MONITORING SERVICE THROUGH A 2-CONDUCTOR TWISTED SHIELD PAIR, NO. 18 CAN BE INSTALLED IMMEDIATELY UPON RECEIPT AT THE FAC. IN ADDITION, ALL SIGNALS INCLUDING TROUBLE ALARMS SHALL BE INDICATED ON THE BUILDINGS LOCAL ANNUNCIATION PANELS AS SHOWN ON THE PLANS. THE SPECIFIC NAME AND LOCATION OF THE ALARM DEVICE SHALL BE INDICATED.

6. THE CONTRACTOR UNDER THIS DIVISION IS RESPONSIBLE FOR PROVIDING ALL SIGNALS INTERNAL TO A BUILDING, AND MONITORING AND REMOTE ANNUNCIATION OF LOCAL STATE OR NATIONAL FIRE CODES GOVERNING BUILDINGS OF THE TYPE AND DESCRIPTION INVOLVED.

2.14 EMERGENCY RADIO COMMUNICATION ENHANCEMENT SYSTEM

A. GENERAL

1. PROVIDE AN IN-BUILDING RADIO SIGNAL AMPLIFICATION SYSTEM TO PROVIDE COMPLETE COVERAGE IN THE BUILDING FOR THE PUBLIC SAFETY AGENCIES AS REQUIRED BY THE LOCAL FIRE DEPARTMENT AND OTHER AGENCIES AND AUTHORITIES HAVING JURISDICTIONS OVER THE BUILDING. THE SYSTEM SHALL TRANSMIT RADIO BROADCASTS FROM THEIR PORTABLE RADIO UNITS WITHIN THE BUILDING. THIS SHALL BE ACCOMPLISHED UTILIZING THE FOLLOWING COMPONENTS:

- BI DIRECTIONAL AMPLIFIERS (SIGNAL BOOSTERS)
- PLENUM RATED COAXIAL CABLE
- C. ANTENNAS
- D. CABLE TAPS
- E. CONNECTORS
- F. POWER DIVIDERS
- G. OTHER COMPONENTS AND INTERCONNECTING CIRCUITRY AS REQUIRED

2. THE SYSTEM SHALL COMPLY WITH THE REQUIREMENTS OF UL2524 1ST EDITION IN-BUILDING 2-WAY EMERGENCY RADIO COMMUNICATION ENHANCEMENT SYSTEMS, SYSTEMS NOT BEARING THE UL2524 LISTING ARE NOT ACCEPTABLE. SYSTEM SHALL BE COMPLIANT WITH THE CURRENT ENFORCED EDITIONS OF NFPA 72, NFPA 1221, AND APPLICABLE STATE/LOCAL FIRE CODE.

3. THE ENTIRE SYSTEM SHALL MEET THE REQUIREMENTS OF THE FIRE DEPARTMENT, THE BUILDING DEPARTMENT AND ALL OTHER AGENCIES AND AUTHORITIES HAVING JURISDICTION (AHJ).

4. THE WORK IN THIS SECTION SHALL INCLUDE THE RESPONSIBILITY FOR ALL PERMIT REQUIREMENTS WITH THE AHJ, WHERE PLINGS REQUIRE ENGINEER'S SIGNATURE. DOCUMENTS SHALL BE SUBMITTED FOR THEIR REVIEW AND SIGNATURE. THIS RESPONSIBILITY SHALL INCLUDE FURNISHING OF REQUIRED QUANTITIES OF FLOOR PLANS, DESCRIPTIVE NOTES AND/OR SPECIFICATIONS, WIRING DIAGRAMS, SHOP DRAWINGS AND AMENDMENT FORMS.

5. EARLY COMPLETION OF THE IN-BUILDING EMERGENCY RADIO COMMUNICATION ENHANCEMENT SYSTEM WILL BE REQUIRED AS TO PERMIT A CERTIFICATE OF OCCUPANCY TO BE OBTAINED IN A TIMELY MANNER.

6. ANY PERMITS NECESSARY FOR THE INSTALLATION OF THE WORK SHALL BE OBTAINED PRIOR TO THE COMMENCEMENT OF THE WORK. ALL PERMIT COSTS AND INSPECTION FEES SHALL BE INCLUDED AS PART OF THE REQUIRED WORK.

7. THE IN-BUILDING EMERGENCY RADIO COMMUNICATION ENHANCEMENT SYSTEM SHALL USE A UL2524, NFPA 72, NFPA 1221 AND APPLICABLE STATE/LOCAL FIRE CODE COMPLIANT FAHREHNT SIGNAL BOOSTER OR APPROVED EQUAL.

8. THE HONEWELL RSI SYSTEM SPECIFIED SHALL BE FURNISHED BY LIFE SAFETY SYSTEMS LLC, CONTACT DAN KLAG (216) 347-0950 OR (440) 888-7960.

B. DESIGN REQUIREMENTS

1. IN-BUILDING EMERGENCY RADIO COMMUNICATION ENHANCEMENT SYSTEMS FOR EMERGENCY RESPONDERS ARE AN INTEGRAL COMPONENT OF THE LIFE SAFETY EQUIPMENT OF A BUILDING OR STRUCTURE. THE PRIMARY FUNCTION IS TO PROVIDE A MEANS FOR OPERATING THE EMERGENCY RESPONDER RADIO COVERAGE ENHANCEMENT SYSTEM FOR A PERIOD OF AT LEAST 24 HOURS. THE BATTERY SYSTEM SHALL AUTOMATICALLY CHARGE IN THE PRESENCE OF EXTERNAL POWER INPUT. BATTERY CHARGER AND ALL OTHER ELECTRONIC COMPONENTS MUST BE FULLY ENCLOSED IN A NON-VENTED NEMA-4 TYPE APPROVED ENCLOSURE. BATTERIES SHALL BE ENCLOSED IN A SEPARATE, VENTED NEMA 3R TYPE APPROVED ENCLOSURE.

5. THE SIGNAL BOOSTER SHALL BE DESIGNATED TO ALLOW DEGRADED PERFORMANCE IN ADVERSE CONDITIONS, SUCH AS HIGH TEMPERATURES IN THE EVENT OF HEAT FROM A NEARBY FIRE, VOLTAGE FLUCTUATIONS OR OTHER ADVERSE CONDITIONS THAT MAY OCCUR DURING AN EMERGENCY. CIRCUITS THAT INTENTIONALLY DISABLE THE SIGNAL BOOSTER IN SUCH SITUATIONS (I.E. UNDER/OVER VOLTAGE, OVER/OVER CURRENT, OVER/OVER TEMPERATURE, ETC.) ARE NOT ACCEPTABLE. EXTERNAL UPS (UNINTERRUPTED POWER SUPPLIES) ARE NOT ACCEPTABLE. IT IS THE PURPOSE OF THIS SPECIFICATION TO ASSURE THE MAXIMUM POSSIBLE LEVEL OF COMMUNICATIONS TO PUBLIC SAFETY PERSONNEL DEPENDING UPON THE SIGNAL BOOSTER, EVEN TO THE EXTENT OF DAMAGING THE SIGNAL BOOSTER, AS LONG AS SOME COMMUNICATIONS BENEFIT CAN BE PROVIDED DURING AN EMERGENCY.

6. SYSTEM DESIGN SHALL BE SUCH THAT NEITHER THE FAILURE OF THE NORMAL POWER SOURCE, THE TRANSFER TO AN EMERGENCY SOURCE, NOT THE RE-TRANSFER TO THE NORMAL SOURCE SHALL CAUSE A CHANGE IN SYSTEM STATUS.

7. THE AMPLIFIER SHALL BE HOUSED IN A 2-HOUR FIRE RATED ROOM OR OTHER SUITABLE SPACE AS APPROVED BY THE ENGINEER, OR WHERE SPECIFICALLY SHOWN ON THE DRAWING.

- a. DOWNLINK - MINIMUM SIGNAL STRENGTH OF -95 dBm THROUGHOUT THE COVERAGE AREA.

- b. UPLINK - MINIMUM SIGNAL STRENGTH OF -95 dBm RECEIVED AT THE AHJ RADIO SYSTEM.

- c. OR AS OTHERWISE REQUIRED BY THE AHJ.

5. THE SYSTEM SHALL BE COMPLETE WITH ALL COMPONENTS AND WIRING REQUIRED FOR COMPLIANCE WITH ALL APPLICABLE CODES AND REGULATIONS, AND FOR ITS OPERATIONS DESCRIBED HEREIN.

6. E.C. SHALL SUB-CONTRACT AN APPROVED MANUFACTURER OR A QUALIFIED AND APPROVED VENDOR TO SUPPLY, TEST AND DETERMINE LOCATIONS OF COMPONENTS WHICH ARE REQUIRED FOR PROPER OPERATION AS WELL AS TO SUPPLY, DEPLOY, TEST AND CERTIFY THE PERFORMANCE OF THE COMPLETE SYSTEM. VENDOR QUALIFICATIONS MUST BE ACCEPTABLE TO THE AHJ.

7. ALL TESTS SHALL BE CONDUCTED, DOCUMENTED, AND SIGNED BY A PERSON IN POSSESSION OF AN FCC GENERAL RADIO TELEPHONE OPERATING LICENSE. ALL TESTING PERSONNEL SHALL BE CERTIFIED AND AUTHORIZED BY THE SIGNAL BOOSTER MANUFACTURER IN THE INSTALLATION AND OPERATION OF THEIR EQUIPMENT. PERSONNEL QUALIFICATIONS MUST BE ACCEPTABLE TO THE AHJ.

8. THE SYSTEM DESIGN SHALL BE BASED ON THE FAHREHNT LINE OF PUBLIC SAFETY SIGNAL BOOSTERS UL2524, NFPA 72, NFPA 1221, APPLICABLE STATE/LOCAL FIRE CODE AND FCC COMPLIANT TO ESTABLISH STANDARDS OF QUALITY FOR MATERIALS AND PERFORMANCE. THE NAMING OF A SPECIFIC MANUFACTURER OR A CATALOG NUMBER DOES NOT WAIVER ANY REQUIREMENT OR PERFORMANCE OF INDIVIDUAL COMPONENTS DESCRIBED IN THE SPECIFICATIONS.

9. ASSEMBLY AND INSTALLATION OF ALL COMPONENTS OF THE EMERGENCY RESPONDER RADIO COMMUNICATION ENHANCEMENT SYSTEM SHALL COMPLY WITH ALL APPLICABLE SECTIONS OF THE NATIONAL ELECTRICAL CODE.

10. SURVIVABILITY FROM ATTACK BY FIRE SHALL MEET REQUIREMENTS OF NFPA 72, NFPA 1221, APPLICABLE STATE/LOCAL FIRE CODE OR AS REQUIRED BY AHJ.

11. THE SYSTEM MUST COMPLY WITH ALL APPLICABLE SECTIONS OF THE FCC RULES. SIGNAL BOOSTER SHALL HAVE FCC CERTIFICATION PRIOR TO INSTALLATION.

12. ANTENNA ISOLATION SHALL BE MAINTAINED BETWEEN THE DONOR ANTENNA AND ALL INSIDE ANTENNAS (D.A.S.) TO A MINIMUM OF 20dB UNDER ALL OPERATING CONDITIONS.

C. TECHNICAL SPECIFICATIONS AND PERFORMANCE REQUIREMENTS

1. THE SYSTEM SPECIFIED SHALL BE BASED UPON FAHREHNT LINE OF PUBLIC SAFETY UL2524, NFPA 72, NFPA 1221, APPLICABLE STATE/LOCAL FIRE CODE COMPLIANT SIGNAL BOOSTERS.

2. THE SIGNAL BOOSTER SHALL BE A CLASS B PUBLIC SAFETY DEVICE AS DESIGNATED BY THE FCC OR AS REQUIRED BY THE AHJ.

3. THE SECONDARY POWER SUPPLIES, BATTERY CHARGERS AND SYSTEM MONITORING SHALL BE FULLY COMPLIANT WITH NFPA 72, NFPA 1221 AND APPLICABLE STATE/LOCAL FIRE CODE. THE SIGNAL BOOSTER SHALL HAVE BOTH THE PRIMARY AND SECONDARY POWER SUPPLIES BUILT IN A FULLY SEALED NEMA-4 TYPE APPROVED ENCLOSURE.

4. ALL SIGNAL BOOSTERS AND OTHER ACTIVE SYSTEM COMPONENTS MUST HAVE FCC CERTIFICATION PRIOR TO INSTALLATION. THE EQUIPMENT FCC ID MUST BE SHOWN ON THE PRODUCT DATASHEETS AND TECHNICAL SUBMITTALS. THE ID MUST ALSO BE DISPLAYED ON THE PRODUCT AS REQUIRED BY THE FCC.

5. THE SIGNAL BOOSTER SHALL BE SET AND TUNED BY THE EQUIPMENT MANUFACTURER TO PASS FREQUENCIES AS SPECIFIED BY THE LOCAL FIRE DEPARTMENT.

6. TO REDUCE THE POSSIBILITY OF UNWANTED INTERFERENCE AFFECTING THE OPERATION OF THE SYSTEM, SIGNAL BOOSTERS SHALL BE BAND OR CHANNEL SELECTIVE TYPE WITH A MAXIMUM 5dB CHANNEL BANDWIDTH OF 200KHz (Fc 100KHz). WIDE-BAND SIGNAL BOOSTERS SHALL NOT BE ACCEPTED, UNLESS REQUIRED TO COVER MULTIPLE CHANNELS WITHIN THE SAME BAND.

7. SIGNAL BOOSTERS SHALL HAVE OSCILLATION PREVENTION CIRCUITRY TO PROTECT THE PUBLIC SAFETY RADIO SYSTEM IN CASE OF SIGNAL BOOSTER MALFUNCTION.

8. SIGNAL BOOSTER GAIN SHALL BE RATED AT MINIMUM OF 80dB AND THE GAIN SHALL BE ADJUSTABLE IN A MINIMUM OF 25dB RANGE. SYSTEM GAIN SHALL BE SET AND DOCUMENTED AT THE TIME OF THE FINAL SYSTEM TEST.

9. MAXIMUM PROPAGATION DELAY OF THE SIGNAL BOOSTER SYSTEM SHALL BE 14µs (MICROSECONDS) OR AS SPECIFIED BY AHJ.

10. THE SIGNAL BOOSTER SYSTEM SHALL INCLUDE BUILT-IN AUTOMATIC ALARMING OF MALFUNCTIONS OF THE SIGNAL BOOSTER AND BATTERY SYSTEM. PER NFPA 72, SECTIONS 24.5.2.6.1 AND 24.5.2.6.2, NFPA 1221, AND APPLICABLE STATE/LOCAL FIRE CODE, AFTERMARKET EQUIPMENT ADD-ONS AND MODIFICATIONS TO COMPLY WITH THIS SPECIFICATION SHALL NOT BE ACCEPTED.

11. A DEDICATED SUPERVISED MONITORING PANEL SHALL BE PROVIDED WITHIN THE EMERGENCY COMMAND CENTER OR OTHER LOCATION AS DESIGNATED BY AHJ TO ANNUNCIATE THE STATUS OF ALL SIGNAL BOOSTER LOCATIONS. THE MONITORING PANEL SHALL PROVIDE VISUAL AND LABELED INDICATION OF THE FOLLOWING FOR EACH SIGNAL BOOSTER:

- a. NORMAL AC POWER
- b. SIGNAL BOOSTER TROUBLE
- c. ANTENNA FAILURE
- d. LOSS OF NORMAL AC POWER
- e. FAILURE OF BATTERY CHARGER
- f. LOW BATTERY CAPACITY

12. THE SIGNAL BOOSTER SYSTEM SHALL INCLUDE A BUILT-IN RELAYS FOR ADDRESSABLE FIRE ALARM MONITOR MODULE CONNECTION FOR MONITORING THE SIGNAL BOOSTER AS REQUIRED BY CODE.

13. THE VENDOR SHALL VERIFY THE SYSTEM MONITORING REQUIREMENTS WITH THE AHJ PRIOR TO SYSTEM INSTALLATION. SYSTEM MONITORING SHALL BE FULLY COMPLIANT WITH THE AHJ REQUIREMENTS.

14. EXTERNAL FILTERS, ATTACHMENTS, OR OTHER AFTERMARKET MODIFICATIONS OF THE ORIGINAL EQUIPMENT SHALL NOT BE ACCEPTED.

15. ALL SIGNAL BOOSTER COMPONENTS SHALL BE CONTAINED IN A NEMA-4 TYPE APPROVED WATERPROOF ENCLOSURE. ALL ENCLOSURES SHALL BE PAINTED RED WITH EXTERNAL LABELING IN BRIGHT YELLOW OR AS REQUIRED BY THE AHJ.

D. INSTALLATION REQUIREMENTS

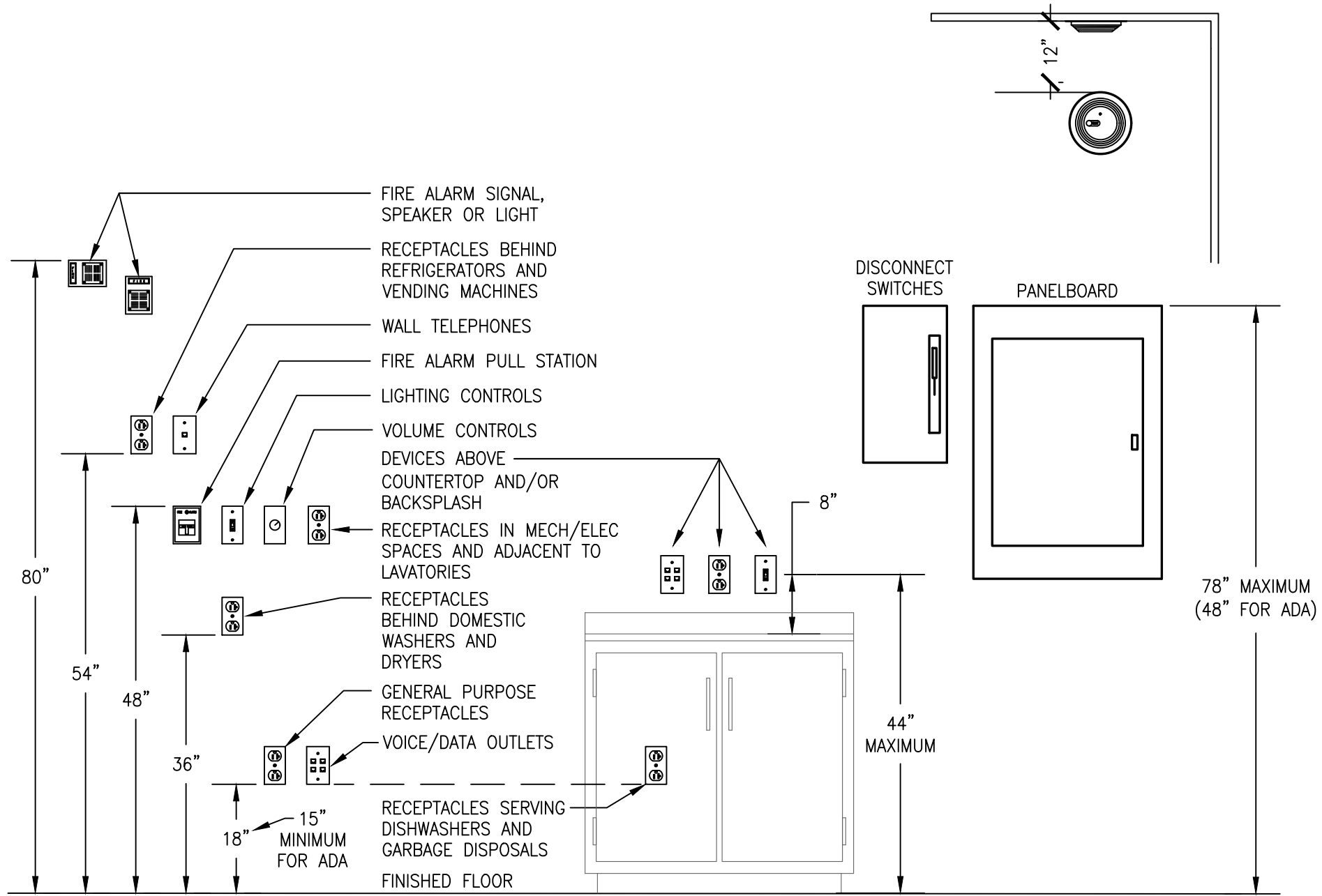
1. ASSEMBLY AND INSTALLATION OF ALL COMPONENTS OF THE EMERGENCY RESPONDER COMMUNICATION ENHANCEMENT SYSTEM SHALL COMPLY WITH ALL APPLICABLE SECTIONS OF THE NATIONAL ELECTRICAL CODE, NFPA 70, NFPA 72, NFPA 1221, AND APPLICABLE STATE/LOCAL FIRE CODE OR AS REQUIRED BY THE LOCAL AHJ.

2. AT LEAST 2 INDEPENDENT AND RELIABLE POWER SUPPLIES SHALL BE PROVIDED AS SPECIFIED IN SECTIONS 2 AND 3 BELOW.

3. THE PRIMARY POWER SOURCE SHALL BE SUPPLIED FROM A DEDICATED TWENTY (20) AMPERE BRANCH CIRCUIT AND COMPLY WITH NFPA 70 NATIONAL ELECTRICAL CODE, NFPA 72 AND NFPA 1221.

4. THE EMERGENCY RESPONDER RADIO COVERAGE ENHANCEMENT SYSTEM SHALL BE EQUIPPED WITH A SECONDARY SOURCE OF POWER. THE SECONDARY SOURCE OF POWER SHALL BE A BATTERY SYSTEM. THE BATTERY SHALL BE A DEDICATED BATTERY CHARGED POWERED BY A SEPARATE, DEDICATED TWENTY (20) AMPERE BRANCH CIRCUIT. THE SECONDARY POWER SUPPLY SHALL SUPPLY POWER AUTOMATICALLY WHEN THE PRIMARY POWER SOURCE IS LOST. THE SECONDARY SOURCE OF POWER SHALL BE CAPABLE OF OPERATING THE EMERGENCY RESPONDER RADIO COVERAGE ENHANCEMENT SYSTEM FOR A PERIOD OF AT LEAST 24 HOURS. THE BATTERY SYSTEM SHALL AUTOMATICALLY CHARGE IN THE PRESENCE OF EXTERNAL POWER INPUT. BATTERY CHARGER AND ALL OTHER ELECTRONIC COMPONENTS MUST BE FULLY ENCLOSED IN A NON-VENTED NEMA-4 TYPE APPROVED ENCLOSURE. BATTERIES SHALL BE ENCLOSED IN A SEPARATE, VENTED NEMA 3R TYPE APPROVED ENCLOSURE.

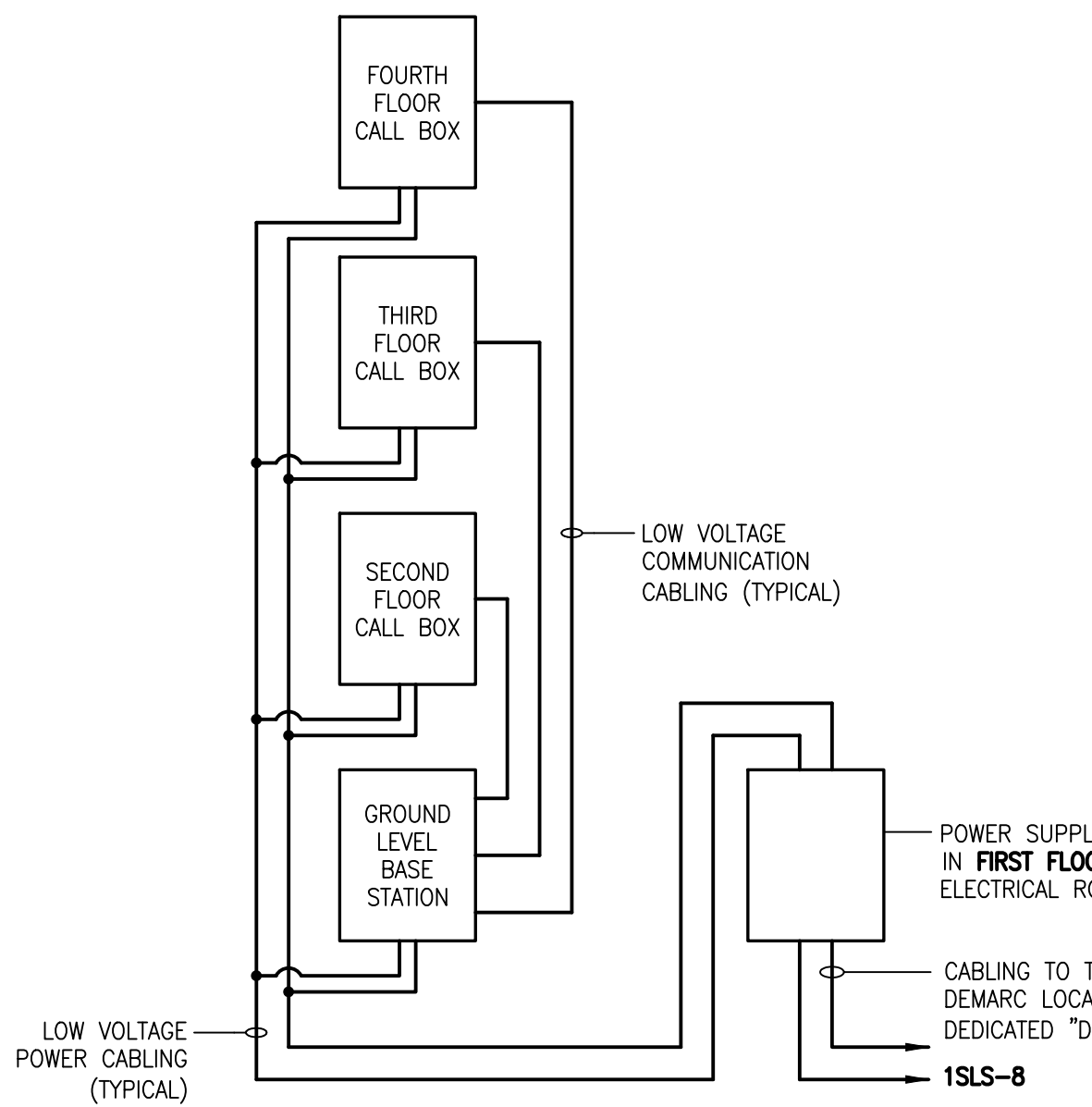
5. THE SIGNAL BOOSTER SHALL BE DESIGNATED TO ALLOW DEGRADED PERFORMANCE IN ADVERSE CONDITIONS, SUCH AS HIGH TEMPERATURES IN THE EVENT OF HEAT FROM A NEARBY FIRE, VOLTAGE FLUCTUATIONS OR OTHER ADVERSE CONDITIONS THAT MAY OCCUR DURING AN EMERGENCY. CIRCUITS THAT INTENTIONALLY DISABLE THE SIGNAL BOOSTER IN SUCH SITUATIONS (I.E. UNDER/OVER VOLTAGE, OVER/OVER CURRENT,



TYPICAL DEVICE MOUNTING DETAIL
NO SCALE

TYPICAL DEVICE MOUNTING DETAIL GENERAL NOTES

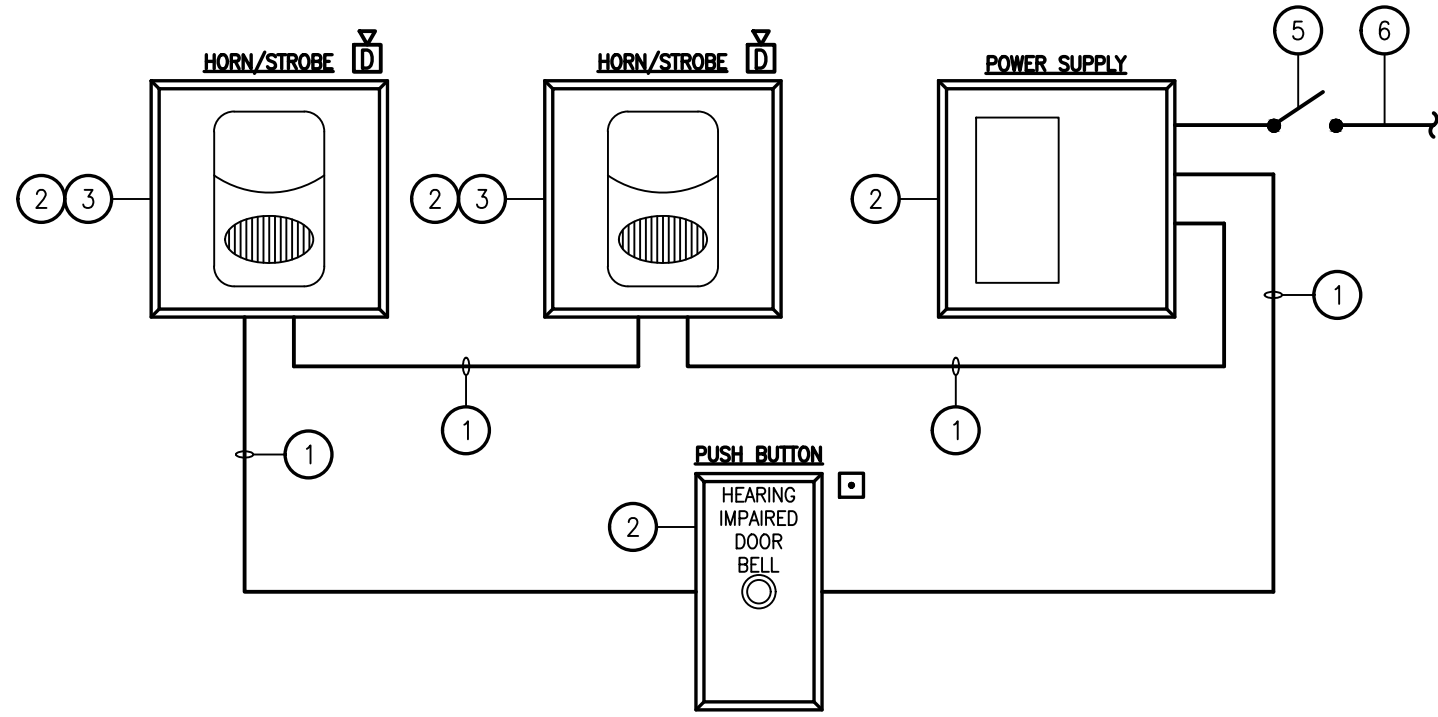
- ALL MOUNTING HEIGHTS SHALL BE MEASURED FROM FINISHED FLOOR TO THE CENTERLINE OF DEVICE EXCEPT FIRE ALARM A/V DEVICES.
- NO WIRING DEVICES OR OUTLET BOXES SHALL BE MOUNTED BACK TO BACK.
- ALL MOUNTING DEVICES SHALL BE INSTALLED AT MOUNTING HEIGHTS AS INDICATED ON THIS DETAIL UNLESS OTHERWISE NOTED.
- FOR ALL ELEVATIONS (WHERE APPLICABLE), CASEWORK DETAILS, FIRE WALLS, SMOKE WALLS, LOCATION OF COUNTERTOP RECEPTACLES, LIGHTING FIXTURE SWITCHES, TELEPHONE OUTLETS, EQUIPMENT ROUGH-INS, HEADWALLS, ETC., SEE ARCH DRAWINGS. WHERE NO ARCHITECTURAL ELEVATIONS OR DETAILS OCCUR, THE ELECTRICAL CONTRACTOR SHALL USE MEANS AND METHODS AS WELL AS THEIR FIELD KNOWLEDGE TO SPOT DEVICES IN THE BEST LOCATIONS FOR THE PROJECT.



TWO-WAY COMMUNICATION SYSTEM WIRING DIAGRAM
NO SCALE

TWO-WAY COMMUNICATION SYSTEM WIRING DIAGRAM GENERAL NOTES

- PROVIDE A COMPLETE, OPERATING TWO-WAY COMMUNICATION SYSTEM CONSISTING OF A **FIRST FLOOR** BASE STATION AND CALL BOX STATION ELEVATOR LANDING LOCATIONS ALL REMAINING FLOORS. SYSTEM SHALL COMPLY WITH ALL STATE CODES, LOCAL CODES AND ADA. MANUFACTURER SHALL BE RATH "AREA OF REFUGE" OR EQUAL BY CORNELL.
- INSTALL ALL CABLING PER MANUFACTURER'S INSTRUCTIONS. WIRING SHALL BE INSTALLED IN 3/4" CONDUIT (MINIMUM).
- COORDINATE LOCATION OF BASE STATION AND CALL BOX STATIONS WITH THE AHJ AND ARCHITECT PRIOR TO ROUGH-IN.
- SUBMITTAL SHALL INCLUDE EQUIPMENT DATA SHEETS, OPERATING MANUALS AND DETAILED WIRING SCHEMATICS.



TYPICAL HEARING IMPAIRED DOORBELL RISER DIAGRAM
NO SCALE

TYPICAL HEARING IMPAIRED DOORBELL SYSTEM CONSTRUCTION NOTES

- ALL WIRING SHALL BE #16 AWG MINIMUM. PROVIDE ALL WIRING REQUIRED FOR COMPLETE INSTALLATION IN ACCORDANCE WITH MANUFACTURER AND MANUFACTURER'S WIRING DIAGRAM.
- ALL EQUIPMENT IS BASED ON PRODUCTS/KITS MANUFACTURED BY GLOBAL FIRE CONTROL, INC. CATALOG NUMBER IS #GF-ADA-ADB-KIT WITH INTEGRAL ENCLOSURE. INCLUDE SURFACE ENCLOSURES WHERE REQUIRED (#GSB-W). PROVIDE ADDITIONAL HORN/STROBE DEVICES (#GFC-GECA24PWW) WHERE REQUIRED. PROVIDE A HORN/STROBE DEVICE IN THE SLEEPING AREA AND IN THE UNIT BATHROOM.
- A MAXIMUM OF FIVE (5) DEVICES CAN BE CONNECTED TO THE POWER SUPPLY INDICATED. PROVIDE A HORN/STROBE DEVICE IN THE SLEEPING AREA AND THE UNIT BATHROOM.
- THIS DETAIL APPLIES TO ALL "HEARING IMPAIRED" HOTEL ROOMS. REFER TO POWER PLANS FOR ALL LOCATIONS AND QUANTITY OF "HEARING IMPAIRED" ROOMS.
- PROVIDE A GENERAL OVERALL OVERRIDE SWITCH TO DISABLE THE DOORBELL SYSTEM. PROVIDE PHENOLIC LABEL STATING "DOORBELL OVERRIDE" OR SIMILAR LANGUAGE INSTALLED ON FACEPLATE PER OWNER'S DIRECTION.
- CONNECT TO NEAREST 120V RECEPTACLES CIRCUIT FOR POWER SUPPLY POWER.

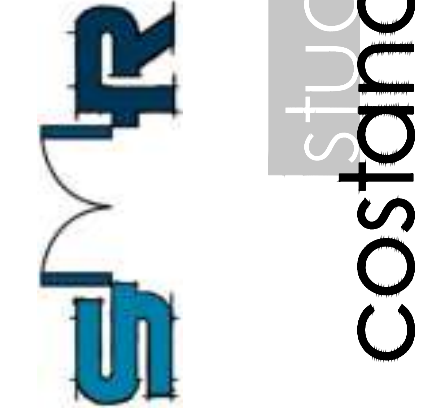
ELEVATOR INSTALLATION GENERAL CONSTRUCTION NOTES

- INCLUDE EXTERNALLY OPERABLE SHUNT TRIP CIRCUIT BREAKERS CAPABLE OF BEING LOCKED IN THE "OFF" POSITION FOR ELEVATOR 3-PHASE POWER FEED (NEC 620.51). PROVIDE WIRING FROM THE FIRE ALARM SYSTEM TO THE CIRCUIT BREAKER FOR SHUNT TRIP ACTIVATION UPON OPERATION OF THE ELEVATOR CONTROL HEAT DETECTORS, UNLESS OTHERWISE DIRECTED BY LOCAL ELEVATOR INSPECTOR (ASME A17.1-102 AND NEC 620.51(B)). ROUTE 120V WIRING THROUGH FIRE ALARM CONTROL PANEL TO MONITOR LOSS OF SHUNT TRIP POWER (TROUBLE ONLY INDICATION). IF BATTERY POWERED LOWERING IS SPECIFIED BY THE ARCHITECT, PROVIDE A NORMALLY CLOSED CONTACT AND WIRING TO ELEVATOR CONTROLLER TO DISCONNECT ADDITIONAL POWER SOURCE (NEC 620.91(C)).
- INCLUDE 4-PAIR UNSHIELDED TWISTED PAIR CABLE, MINIMUM-CATEGORY 3 FROM CONTROLLER TO NEAREST AVAILABLE TELEPHONE SERVICES FOR CAR EMERGENCY PHONE/INTERCOM (ANSI A-17.1 - 211). COORDINATE EXACT LOCATION OF TELEPHONE SERVICES. **TYPICAL OF 2, ONE FOR EACH ELEVATOR.**
- INCLUDE FUSIBLE DISCONNECT OR EXTERNALLY OPERABLE CIRCUIT BREAKER CAPABLE OF BEING LOCKED IN THE "OFF" POSITION FOR 120 VOLT SINGLE PHASE FEED (NEC 620.53). PROVIDE SECOND SWITCH IF SEPARATE HEATING OR AIR CONDITIONING POWER SUPPLY IS PROVIDED (NEC 620.54). **TYPICAL OF 2, ONE FOR EACH ELEVATOR.**
- INCLUDE DEDICATED 20 AMP, 120 VOLT BRANCH CIRCUIT ON FOR CAR LIGHTS, RECEPTACLES, AUXILIARY LIGHTING SOURCE AND VENTILATOR (NEC 620.22). PROVIDE A SECOND CIRCUIT IF SEPARATE HEATING OR AIR CONDITIONING POWER SUPPLY IS PROVIDED (NEC 620.22). **TYPICAL OF 2, ONE FOR EACH ELEVATOR.**
- INCLUDE WEATHERPROOF DUPLEX RECEPTACLE - (FOR ELEVATOR SERVING) AND SWITCH FOR LIGHTS. COORDINATE LOCATION IN FIELD WITH ELEVATOR INSTALLER.
- INCLUDE SMOKE DETECTOR WITH AUXILIARY CONTACTS FOR ELEVATOR RECALL - LOCATE OUTSIDE EACH ELEVATOR LANDING, AT TOP AND BOTTOM OF THE HOISTWAY (2 FEET ABOVE FLOOR) AND IN THE MACHINE ROOM (ANSI A-17.1 - 211.3b).
- INCLUDE FIXED TEMPERATURE HEAT DETECTOR AT SETTING LESS THAN SPRINKLER HEAD TO BE MOUNTED ADJACENT TO HEAD. HEAT DETECTORS SHALL INITIATE AN AUTOMATIC POWER SHUTDOWN FOR 3-PHASE POWER TO THE ELEVATOR CONTROLLER, UNLESS OTHERWISE DIRECTED BY THE LOCAL ELEVATOR INSPECTOR. LOCATE HEAT DETECTORS IN THE MACHINE ROOM, AT THE TOP OF THE SHAFT AND AT THE BOTTOM OF THE SHAFT (2 FEET ABOVE THE FLOOR).

SYMBOL LEGEND	
SYMBOL	DESCRIPTION
	LUMINAIRE. "A" INDICATES TYPE; "g" INDICATES SWITCH CONTROL.
	LUMINAIRE WIRED FOR 24 HOUR OPERATION.
	LUMINAIRE WITH INTEGRAL EMERGENCY BATTERY DRIVER.
	SELF CONTAINED LED UNIVERSAL MOUNTED "EXIT" SIGN. PROVIDE QUANTITY OF FACES AND DIRECTIONAL ARROWS AS INDICATED ON FLOOR PLANS. REFER TO LUMINAIRE SCHEDULE FOR ADDITIONAL INFORMATION.
	EMERGENCY LIGHTING BATTERY UNIT WITH HEADS AS INDICATED. REFER TO LUMINAIRE SCHEDULE FOR ADDITIONAL INFORMATION.
	LIGHT SWITCH. SINGLE POLE, 20 AMPERE, 120/277 VOLT, 1HP.
	LIGHT SWITCH. "X" INDICATES THE FOLLOWING: "g" CONTROL OF SPECIFIED LUMINAIRE "3" 3-WAY TYPE "IL" ILLUMINATED RECEPTACLE COMPLAINT WITH IHG REQUIREMENTS. "OS" LINE VOLTAGE MULTI-TECHNOLOGY WALL SWITCH OCCUPANCY SENSOR WITH MANUAL ON/OFF SWITCH. REFER TO DIAGRAM ON DRAWING E0.4 . "VS" LINE VOLTAGE MULTI-TECHNOLOGY WALL SWITCH VACANCY SENSOR WITH MANUAL ON/OFF SWITCH. REFER TO DIAGRAM ON DRAWING E0.4 . "VDS" LINE VOLTAGE ON/OFF SWITCH WITH DIMMER FUNCTION AND VACANCY SENSOR. "LVN" LOW VOLTAGE ON/OFF MASTER SWITCH. "LV" LOW VOLTAGE ON/OFF SWITCH. "LV2" DUAL ZONE LOW VOLTAGE ON/OFF SWITCH. "LV4" QUAD ZONE LOW VOLTAGE ON/OFF SWITCH. "LVD" LOW VOLTAGE ON/OFF SWITCH WITH DIMMER FUNCTION. "LVDS" DUAL ZONE LOW VOLTAGE ON/OFF SWITCH WITH DIMMER FUNCTION. "LVDS4" QUAD ZONE LOW VOLTAGE ON/OFF SWITCH WITH DIMMER FUNCTION.
	LINE VOLTAGE WALLBOX TYPE DIMMING SWITCH. COORDINATE DIMMING PROTOCOL OF THIS DIMMING SWITCH AND LIGHTING LOAD SERVED PRIOR TO PLACING PURCHASE ORDER.
	MULTI-TECHNOLOGY CEILING MOUNTED OCCUPANCY SENSOR WITH 20 AMP RATED POWER PACK. "X" REPRESENTS CONTROLLED LIGHTING ZONE.
	MULTI-TECHNOLOGY CEILING MOUNTED VACANCY SENSOR WITH 20 AMP RATED POWER PACK. "X" REPRESENTS CONTROLLED LIGHTING ZONE.
	LOW VOLTAGE CEILING MOUNTED PHOTOSENSOR, "X" REPRESENTS CONTROLLED LIGHTING ZONE.
	LOW VOLTAGE MULTI-TECHNOLOGY CEILING MOUNTED OCCUPANCY SENSOR, "X" REPRESENTS CONTROLLED LIGHTING ZONE.
	LOW VOLTAGE MULTI-TECHNOLOGY CEILING MOUNTED VACANCY SENSOR, "X" REPRESENTS CONTROLLED LIGHTING ZONE.
	UNDER GROUND CONDUIT/RACEWAY AND/OR CIRCUITING
	CIRCUITRY TURNING UP
	CIRCUITRY TURNING DOWN
	CONDUIT HOME RUN TO PANEL/CIRCUIT BREAKER AS INDICATED. ALL UNMARKED HOMERUNS TO CONTAIN 2-12 AWG & 1-12 AWG GND IN 3/4" CONDUIT (MINIMUM), UNLESS NOTED OTHERWISE. SIZE CONDUIT AND PROVIDE JUNCTION BOXES PER CODE UNLESS OTHERWISE NOTED.
	DWELLING UNITS: DWELLING UNIT LOAD CENTER
	ALL OTHER AREAS: BRANCH CIRCUIT PANELBOARD
	DISCONNECT SWITCH. "f" INDICATES SWITCH SIZE. "WP" INDICATES WEATHERPROOF (NEMA 3R) ENCLOSURE
	FUSED DISCONNECT SWITCH "AS" INDICATES AMPERE SWITCH SIZE "AF" INDICATES AMPERE FUSE SIZE "WP" INDICATES WEATHERPROOF (NEMA 3R) ENCLOSURE
	DUPLEX RECEPTACLE - 125 VOLT, 20 AMPERE, 2 POLE, 3 WIRE, GROUNDING TYPE MOUNTED AT 18" AFF UNLESS NOTED OTHERWISE
	DOUBLE DUPLEX RECEPTACLE - 125 VOLT, 20 AMPERE, 2 POLE, 3 WIRE, GROUNDING TYPE MOUNTED AT 18" AFF UNLESS NOTED OTHERWISE
	GFCI GROUND TYPE DUPLEX RECEPTACLE - 125 VOLT, 20 AMPERE, 2 POLE, 3 WIRE, GROUNDING TYPE MOUNTED AT 18" AFF UNLESS NOTED OTHERWISE
	RECEPTACLE SYMBOL WITH ADDITIONAL SUBSCRIPT DESIGNATES TYPE OR SPECIFIC REQUIREMENTS AS FOLLOWS: "AC" INDICATES MOUNTED 8" ABOVE COUNTER UNLESS NOTED OTHERWISE ON ARCHITECTURAL ELEVATIONS "CLG" FLUSH CEILING MOUNTED OR 12" ABOVE WINDOW "+48" RECEPTACLE MOUNTED AT HEIGHT INDICATED "VF" VERIFY MOUNTING HEIGHT IN FIELD "WP" WEATHERPROOF WHILE-IN-USE (HUBBELL #WP26M) COVER "U" DUPLEX RECEPTACLE WITH USB PORTS, LEVITON T5832 OR EQUAL "T" TAMPER RESISTANT (ONLY INDICATED OUTSIDE OF GUEST SUITES) "G" RECEPTACLE PROTECTED BY UPSTREAM GFCI OR GFI BREAKER WITH "GFCI" PROTECTED LABEL ON THE FACE OF DEVICE
	DUPLEX RECEPTACLE - 125 VOLT, 20 AMPERE, 2 POLE, 3 WIRE, GROUNDING TYPE MOUNTED AT 18" AFF UNLESS NOTED OTHERWISE. RECEPTACLE SHALL BE SPLIT WIRED SUCH THAT TOP OUTLET TO BE WIRED FOR SWITCHING TO SWITCH INDICATED BY "g".
	FLOOR BOX WITH DUPLEX RECEPTACLE. PROVIDE APPROPRIATE BOX TYPE FOR CONCRETE OR WOOD FLOOR CONSTRUCTION.
	SPECIAL PURPOSE RECEPTACLE.
	JUNCTION BOX - SIZE PER N.E.C. ARTICLE 314 REQUIREMENTS
	COMBINATION VOICE/DATA OUTLET (4" x 2-1/8" DEEP JUNCTION BOX) COMPLETE WITH SINGLE GANG MUD RING (VERIFY DRYWALL THICKNESS) AND COVER PLATE (COLOR SELECTION BY ARCHITECT) MOUNTED AT 18" A.F.F. PROVIDE 1-0" CONDUIT WITH INSULATING BUSHING AND PULLSTRING STUBBED UP 12" INTO ACCESSIBLE CEILING SPACE.
	VOICE AND/OR DATA SYMBOL WITH ADDITIONAL SUBSCRIPT DESIGNATES TYPE OR SPECIFIC REQUIREMENTS AS FOLLOWS: "AC" INDICATES MOUNTED 8" ABOVE COUNTER UNLESS NOTED OTHERWISE ON ARCHITECTURAL ELEVATIONS "CLG" FLUSH CEILING MOUNTED OR 12" ABOVE WINDOW "+48" RECEPTACLE MOUNTED AT HEIGHT INDICATED "VF" VERIFY MOUNTING HEIGHT IN FIELD "W" DENOTES WALL PHONE "TV" DENOTES TELEVISION OUTLET
	FLOOR BOX WITH DATA/VOICE OUTLET AS DESCRIBED ABOVE. PROVIDE APPROPRIATE BOX TYPE FOR CONCRETE OR WOOD FLOOR CONSTRUCTION.
	MANUAL PULL STATION
	COMBINATION AUDIBLE/VISUAL (HORN/STROBE) SIGNALING DEVICE. LF DESIGNATION INDICATES LOW FREQUENCY ALARM DEVICE.
	VISUAL (STROBE) ONLY SIGNALING DEVICE
	SMOKE ALARM (DWELLING UNITS)/SMOKE DETECTOR (ALL OTHER AREAS). "CO" DESIGNATION INDICATES COMBINATION SMOKE DETECTOR(ALARM)/CARBON MONOXIDE DETECTOR.
	FIRE ALARM CONTROL PANEL
	FIRE ALARM ANNUNCIATOR PANEL
	FLOW SWITCH. COORDINATE ALL REQUIREMENTS WITH SPRINKLER/FIRE SUPPRESSION DRAWINGS.
	MAGNETIC DOOR HOLD OPEN



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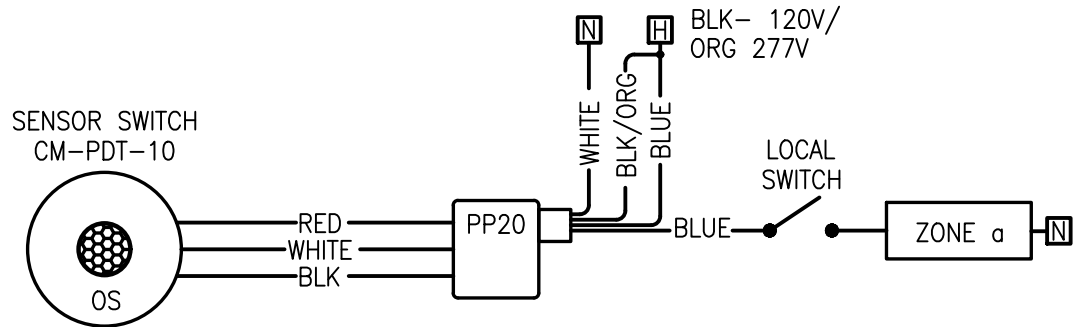
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ATWELL SUITES
AN IHG HOTEL
ERLEN DR. & MINDEN DR. FISHERS, INDIANA 46037
ELECTRICAL LEGEND, NOTES, AND DETAILS

ISSUE / REVISION DATE:	
05/04/2022	OWNER REVIEW
06/23/2022	OWNER REVIEW
08/04/2022	PRELIMINARY REVIEW
01/13/2023	FRANCHISE REVIEW
04/21/2023	FRANCHISE REVIEW
05/17/2023	SAXONY DESIGN REVIEW 1
09/19/2023	HIG FINAL REVIEW
11/17/2023	SAXONY DESIGN REVIEW 2
01/26/2024	FOR CONSTRUCTION

SMR Project No. **AWSFIN**

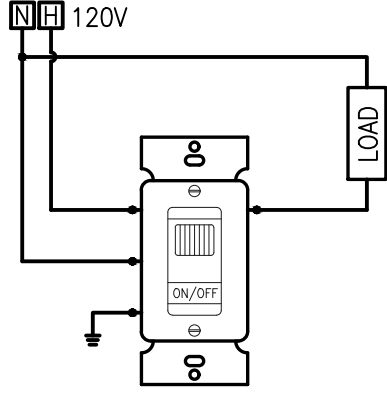
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OCCUPANCY SENSOR WIRING DIAGRAM (LARGE ROOM)

SCALE: NOT TO SCALE
NOTES:

- ALL LOW VOLTAGE WIRING AND TERMINATIONS TO BE BY ELECTRICAL CONTRACTOR.
- MAXIMUM NUMBER OF SENSORS PER POWER PACK IS DEPENDANT ON MANUFACTURER. COORDINATE QUANTITY OF POWER PACKS WITH MANUFACTURER.
- OCCUPANCY SENSOR SHALL BE DUAL TECHNOLOGY "SENSOR SWITCH" CM-PDT-10 OR APPROVED EQUAL. ALL EXPOSED CONTROL WIRING SHALL BE IN CONDUIT.



VACANCY & OCCUPANCY SENSOR SWITCH WIRING DIAGRAM

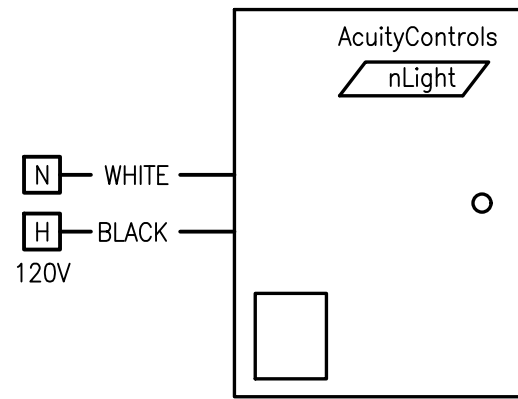
SCALE: NOT TO SCALE
NOTES:

- VACANCY SENSOR SHALL BE "SENSOR SWITCH" WSK-PDT-SA OR APPROVED EQUAL.
- OCCUPANCY SENSOR SHALL BE "SENSOR SWITCH" WSK-PDT OR APPROVED EQUAL.
- REFER TO SPECIFIC LOCATIONS AND SET FOR VACANCY "VS" OR OCCUPANCY "OS" AS INDICATED. SET TIME DELAY TO 20 MINUTES.

INTERIOR LUMINAIRE SCHEDULE						
TYPE	LAMP	WATTAGE	VOLTAGE	DESCRIPTION	CATALOG NUMBER	REMARKS
A1	LED 3000K 4000L	37	120	LED LAY-IN 2x4 FLAT PANEL FIXTURE.	LITHONIA LIGHTING #EPANL -2X4-4000LM-80CRI-30K-MIN10-ZT-MVOLT	-
A2	LED 3000K 3000L	37	120	LED 2x4 FIXTURE FOR DRYWALL CEILING.	LITHONIA LIGHTING #2BL14-30L-ADSM-GZ10-LP930-NOC	-
CH1	(7) LED B11 E12 BASE	105	120	DECORATIVE LOBBY PENDANT WITH SEVEN LAMPS. BOTTOM OF FIXTURE SHALL BE MOUNTED NO LOWER THAN 80" A.F.F.	CUSTOM LIGHT FIXTURE BY EITHER TRINITY LIGHTING OR CHALLENGER LIGHTING. LAMPS: (7) #####	COORDINATE CUSTOM FIXTURE PURCHASE WITH MANUFACTURER AND OWNER. FIXTURE SOCKETS SHALL BE FACTORY RATED FOR A MAXIMUM OF 15W.
CH2	(3) LED A19 E26 BASE	45	120	DECORATIVE RECEPTION DESK PENDANT.	CUSTOM LIGHT FIXTURE BY EITHER TRINITY LIGHTING OR CHALLENGER LIGHTING. LAMPS: (3) SATCO #S11356	COORDINATE CUSTOM FIXTURE PURCHASE WITH MANUFACTURER AND OWNER. FIXTURE SOCKETS SHALL BE FACTORY RATED FOR A MAXIMUM OF 15W.
CH3	(15) LED 3000K 1725L TOT.	30	120	DECORATIVE MAIN LOBBY CHANDELIER. BOTTOM OF LOWEST LAMP SHALL BE MOUNTED NO LOWER THAN 126" A.F.F.	SUSPENDERS: 36" 4-TIER TRI-BAR BY SONNEMAN LIGHTING	-
D	LED 3000K 3500L	35	120	LED 6" DOWNLIGHT FOR USE IN EXTERIOR CANOPIES.	LITHONIA LIGHTING #LDN6-30/30-L06-AR-LD-TRW-MVOLT-GZ10	-
GRS	LED 3000K 650L	11	120	LED SURFACE MOUNTED DOWNLIGHT FOR USE IN GUEST ROOMS.	JUNO LIGHTING #JSBC-SIN-30K-90CRI-WH	-
LA	LED 2700K 1000L	17	120	LED 6" SQUARE FLOOD DOWNLIGHT WITH FIRE RATED HOUSING.	JUNO LIGHTING HOUSING: IC44LFW-10LM-27K-90CRI-FL-120FRPC TRIM: #47LSQ-BWH	-
LA1	LED 2700K 1000L	17	120	LED 6" SQUARE SPOT DOWNLIGHT WITH FIRE RATED HOUSING.	JUNO LIGHTING HOUSING: IC44LFW-10LM-27K-90CRI-SP-120FRPC TRIM: #47LSQ-BWH	-
LA2	LED 2700K 1000L	17	120	LED 6" SQUARE NARROW FLOOD DOWNLIGHT WITH FIRE RATED HOUSING.	JUNO LIGHTING HOUSING: IC44LFW-10LM-27K-90CRI-NFL-120FRPC TRIM: #47LSQ-BWH	-
LC	LED 2700K 1250L/FT.	3/FT.	120	LED RIBBON LIGHT WITH FROSTED LENS RECESS-MOUNTED ON BAR AREA MILLWORK.	ACOLYTE RIBBON: #RB-90-SWCL65-3.027 CHANNEL: #AS1	INCLUDE DIMMING DRIVER(S) WITH ELV DIMMING CAPABILITY.
LD	LED 2700K 1250L/FT.	3/FT.	120	LED RIBBON LIGHT WITH FROSTED LENS SURFACE-MOUNTED ON BAR AREA MILLWORK.	ACOLYTE RIBBON: #RB-90-SWCL65-3.027 CHANNEL: #AS1	INCLUDE DIMMING DRIVER(S) WITH ELV DIMMING CAPABILITY.
LE	LED 2700K 1250L/FT.	3/FT.	120	LED RIBBON LIGHT WITH FROSTED LENS SURFACE-MOUNTED ON BAR AREA MILLWORK.	ACOLYTE RIBBON: #RB-90-SWCL65-3.027 CHANNEL: #AC1	INCLUDE DIMMING DRIVER(S) WITH ELV DIMMING CAPABILITY.
LF	LED 2700K 1250L/FT.	3/FT.	120	LED RIBBON LIGHT WITH CLEAR LENS SURFACE-MOUNTED ON BAR AREA MILLWORK.	ACOLYTE RIBBON: #RB-90-SWCL65-3.027 CHANNEL: #AC1	INCLUDE DIMMING DRIVER(S) WITH ELV DIMMING CAPABILITY.
LG	LED 27-50K 700-1200L	8/14/15	120	LED SELECTABLE CCT AND LUMEN OUTPUT 6" DOWNLIGHT.	JUNO LIGHTING #JPD24-SQDC-AL010-SWW5WD-90CRI-JPD24SQNCMF-120FRPC-WWH	SELECT 700L AND 2700K ON EACH FIXTURE PRIOR TO INSTALLATION.
P	LED A19 E26 BASE	MAX 15	120	DECORATIVE OVER-BAR PENDANT.	CUSTOM LIGHT FIXTURE BY EITHER TRINITY LIGHTING OR CHALLENGER LIGHTING. LAMP: #####	COORDINATE CUSTOM FIXTURE PURCHASE WITH MANUFACTURER AND OWNER. FIXTURE SOCKETS SHALL BE FACTORY RATED FOR A MAXIMUM OF 15W.
P-2	LED A19 E12 BASE	MAX 15	120	PUBLIC BATHROOM SINK PENDANT.	CUSTOM LIGHT FIXTURE BY EITHER TRINITY LIGHTING OR CHALLENGER LIGHTING. LAMP: SATCO #S21804	COORDINATE CUSTOM FIXTURE PURCHASE WITH MANUFACTURER AND OWNER. FIXTURE SOCKETS SHALL BE FACTORY RATED FOR A MAXIMUM OF 15W.
S	LED 3000K 3000L	25	120	LED 4' SURFACE MOUNTED WRAPAROUND FIXTURE.	LITHONIA LIGHTING #BLWP4-30L-ADP-GZ10-LP830-MVOLT-NOC	-
S2	-	-	-	-	TO BE DETERMINED.	-
X1	LED	3.8	120	LED EDGE-LIT EXIT SIGN WITH MIRROR FACE AND RED LETTERING.	LITHONIA LIGHTING #EDGR-1/2-RMR	COORDINATE NUMBER OF FACES WITH LIGHTING PLAN LAYOUTS.
X2	LED	0.62	120	LED EXIT SIGN WITH RED LETTERING AND WHITE THERMOPLASTIC HOUSING.	LITHONIA LIGHTING #LOM-S-W-3-R-120/277	-

LUMINAIRE SCHEDULE GENERAL NOTES:

- VERIFY ALL LUMINAIRE COLORS, TRIMS, LENGTHS, ETC. WITH THE ARCHITECT PRIOR TO PLACING FINAL PURCHASE ORDERS. SUBMISSION OF SHOP DRAWINGS WILL BE INTERPRETED AS HAVING BEEN COORDINATED WITH THE ARCHITECTURAL DRAWINGS.
- PROVIDE ALL LENGTHS, FEEDS, ACCESSORIES, CONNECTORS, WIRING, POWER SUPPLIES, DRIVERS, ETC. FOR A COMPLETE INSTALLATION. VERIFY THE COMPLETE BILL OF MATERIAL WITH MANUFACTURER'S REPRESENTATIVE AND ENSURE ALL EQUIPMENT IS INCLUDED IN BID PRICE. COORDINATE INSTALLATION WITH ARCHITECTURAL DETAILS.
- VERIFY FINAL LUMINAIRE LOCATIONS WITH OTHER CEILING MOUNTED EQUIPMENT SUCH AS DIFFUSERS, FIRE ALARM DEVICES, SPEAKERS, ETC., WITH ARCHITECTURAL REFLECTED CEILING PLANS.
- VERIFY EXACT MOUNTING HEIGHT AND LOCATIONS OF ALL WALL MOUNTED AND PENDANT MOUNTED LUMINAIRES WITH ARCHITECTURAL PLANS AND ELEVATIONS PRIOR TO ROUGH-IN.
- ANY PROPOSED ALTERNATE LUMINAIRES SHALL BE APPROVED BY THE ARCHITECT PRIOR TO FINAL BID PRICING.
- SHOULD THE CONTRACTOR PROPOSE TO FURNISH MATERIALS, EQUIPMENT, AND DEVICES, OTHER THAN THOSE SPECIFIED AND LISTED, THE CONTRACTOR SHALL SUBMIT A WRITTEN REQUEST FOR SUBSTITUTIONS, TO THE ENGINEER AT LEAST TEN (10) BUSINESS DAYS PRIOR TO BID OPENING. THE REQUEST SHALL BE AN ALTERNATE TO THE ORIGINAL BID AND SHALL INCLUDE A COMPLETE SPECIFICATIONS CUT SHEET SUBMITTAL AS OUTLINED IN THE SPECIFICATIONS, COMPLETE WITH DESCRIPTIVE (MANUFACTURER, BRAND NAME, CATALOG NUMBER, ETC.) AND TECHNICAL DATA FOR ALL ITEMS. INDICATE ANY ADDITIONS OR DEDUCTIONS TO THE CONTRACT PRICE WITH THE SUBSTITUTION SUBMITTAL AND ON THE BID FORM.



LIGHTING CONTROL PANEL "LCP-1"

SCALE: NOT TO SCALE

ACUITY ARP RELAY PANEL - #ARP-INTENC24NLT-24FCR-MVOLT-HLK-SM-OTC

NOTES:

- LCP SHALL BE LOCATED AS CLOSE TO PANELBOARD AS PRACTICAL. PROVIDE WIRING FROM LOW VOLTAGE SWITCH TO RELAY CABINET REQUIRED FOR EACH RELAY AS REQUIRED.
- HEADEND SHALL CONTAIN ASTRONOMICAL TIME CLOCK (nLIGHT nOTC).
- PROVIDE LIGHTING RELAYS IN PANELS AS SHOWN. REFER TO DRAWINGS FOR BRANCH CIRCUITS WIRED VIA RELAY PANELS.
- PROGRAM LIGHTING SCHEDULE AND HOURS OF OPERATION WITH OWNER.
- PROVIDE LOW-VOLTAGE OVERRIDE SWITCH CONTROLS AS INDICATED ON DRAWINGS. ACUITY "nLight" SERIES. LOW-VOLTAGE OVERRIDE SWITCH CONTROLS SHALL INITIATE AN OVERRIDE OF A MAXIMUM TIME OF NO MORE THAN FOUR (2) HOURS
- PROVIDE TWO (2) HOUR TRAINING ON PROGRAMMING OF SYSTEM AND SYSTEM OPERATION.
- SYSTEM SHALL BE TESTED AND COMMISSIONED IN ACCORDANCE WITH ASHRAE 90.1-2010 REQUIREMENTS AS NOTED IN PARAGRAPH 9.4.4 - FUNCTIONAL TESTING.
- PROVIDE A #1SP5-PCD-ELV120 POWER PACK FOR EACH ZONE/RELAY SERVING ELV TYPE DIMMING LOADS.
- INCLUDE ALL CAT5e WIRING BETWEEN ALL SWITCHES, POWER PACKS, SENSORS, ETC. AND THIS CONTROL PANEL.
- INCLUDE ALL PROVISIONS FOR OVERRIDING AUTOMATIC CONTROLS FOR ALL CIRCUITS/ZONES ON PANEL 1CLS DURING NORMAL POWER FAILURE.

"LCP-1" SCHEDULE				
RELAY #	ZONE TAG	LOAD TYPE	CIRCUIT #	DESCRIPTION
1	a	ELV	1CLS-7	DINING/ENTRY DOWNLIGHTING.
2	b	0-10V	1CLS-7	DINING PENDANTS.
3	c	ELV	1CLS-7	DINING SCIENCE.
4	d	0-10V	1CLS-7	WORK/SOCIAL PENDANT.
5	e	0-10V	1CLS-7	RECEPTION PENDANT.
6	f	0-10V	1CLS-7	BAR PENDANTS.
7	g	0-10V	1CLS-9	2F COMMON DOWNLIGHTING.
8	h	ELV	1CLS-9	2F COMMON DOWNLIGHTING.
9	k	ELV	1CLS-9	1F/2F PUBLIC STAIR LIGHTING
10	-	-	1CLS-11	NORTH EXTERIOR LIGHTING
11	-	-	1CLS-13	SOUTH EXTERIOR LIGHTING
12	-	-	1CEM-7	MONUMENT SIGN
13	-	-	1CEM-28	EXTERIOR BOLLARD LIGHTING
14	-	-	1CEM-23,25	SITE POLE LIGHTS
15	-	-	-	-
16	-	-	1CEM-27,29	SITE POLE LIGHTS
17	-	-	-	-
18	-	-	-	SPARE
19	-	-	-	SPARE
20	-	-	-	SPARE
21	-	-	-	SPARE
22	-	-	-	SPACE
23	-	-	-	SPACE
24	-	-	-	SPACE

DIAGRAM NOTES

SYSTEM SHOWN IS BASIS OF DESIGN BY ACUITY BRANDS. PROVIDE POWER PACKS AS REQUIRED TO ACCOMMODATE ZONES AND LOAD TYPES SHOWN ON PLAN AND IN LUMINAIRE SCHEDULE. ALTERNATE SYSTEM(S) MAY BE SUBMITTED FOR REVIEW AND APPROVAL BY ARCHITECT AND ENGINEER PRIOR TO BID. ALTERNATE SYSTEM(S) SHALL BE PRICED AS ALTERNATE TO BASIS OF DESIGN SYSTEM AND LISTED AS SUCH IN SUBMITTED BID.



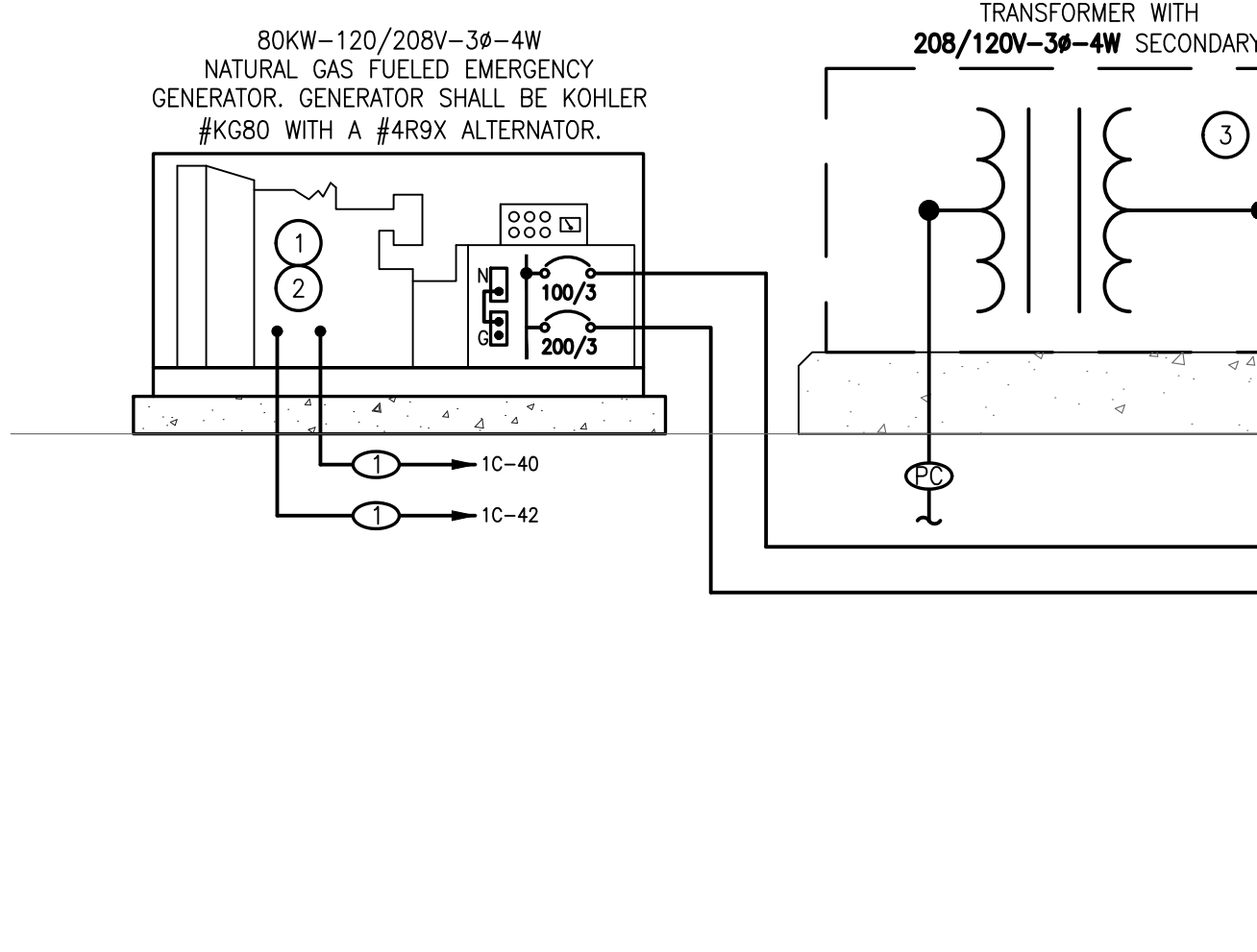
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CIRCUIT BREAKER PANEL SCHEDULE													
NAME: 101FM		VOLTAGE: 208/120V-3Ø-4W		BUSES: 150A		C/AIC: 10							
MOUNTING: SURFACE		LOCATION: MAIN ELEC ROOM		MAIN LUG ONLY		C/W/D: 40.8							
NO	SYM	DESCRIPTION	ITS	PH	CB	PH	CB	PH	CB	PH	CB	PH	CB
1		1" SOUTH CORRIDOR LIGHTING	1.00										
3		1" SOUTH CORRIDOR LIGHTING	1.00										
5		1" CENTRAL CORRIDOR LIGHTING	1.00										
7		1" NORTH CORRIDOR LIGHTING	1.00										
9		1" NORTH CORRIDOR LIGHTING	1.00										
11		1" NORTH CORRIDOR LIGHTING	1.00										
13		1" NORTH CORRIDOR LIGHTING	1.00										
15		1" NORTH CORRIDOR LIGHTING	1.00										
17		1" NORTH CORRIDOR LIGHTING	1.00										
19		1" NORTH CORRIDOR LIGHTING	1.00										
21		1" NORTH CORRIDOR LIGHTING	1.00										
23		1" NORTH CORRIDOR LIGHTING	1.00										
25		1" NORTH CORRIDOR LIGHTING	1.00										
27		1" NORTH CORRIDOR LIGHTING	1.00										
29		1" NORTH CORRIDOR LIGHTING	1.00										
31		1" NORTH CORRIDOR LIGHTING	1.00										
33		1" NORTH CORRIDOR LIGHTING	1.00										
35		1" NORTH CORRIDOR LIGHTING	1.00										
37		1" NORTH CORRIDOR LIGHTING	1.00										
39		1" NORTH CORRIDOR LIGHTING	1.00										
41		1" NORTH CORRIDOR LIGHTING	1.00										
TOTALS (KW)		1.00	1.44	0.00	24.00	1.00	PH	0.00	0.00	0.00	0.00	1.00	TOTALS (KW)
LOAD SUMMARY													
KW		DF	KWD										
LTC	1.00	1.00	1.00										
REC	1.44	1.44	1.44										
HVAC	1.00	1.00	1.00										
TOTAL	31.5	1.00	49.8KW										
AMPS	142.8A		138.1A										
NOTES: C - CIRCUIT BREAKER													

CIRCUIT BREAKER PANEL SCHEDULE													
NAME: 101S		VOLTAGE: 208/120V-3Ø-4W		BUSES: 150A		C/AIC: 10							
MOUNTING: SURFACE		LOCATION: MAIN ELEC ROOM		MAIN LUG ONLY		C/W/D: 17.2							
NO	SYM	DESCRIPTION	ITS	PH	CB	PH	CB	PH	CB	PH	CB	PH	CB
1		1" SOUTH CORRIDOR LIGHTING	1.00										
3		1" SOUTH CORRIDOR LIGHTING	1.00										
5		1" CENTRAL CORRIDOR LIGHTING	1.00										
7		1" NORTH CORRIDOR LIGHTING	1.00										
9		1" NORTH CORRIDOR LIGHTING	1.00										
11		1" NORTH CORRIDOR LIGHTING	1.00										
13		1" NORTH CORRIDOR LIGHTING	1.00										
15		1" NORTH CORRIDOR LIGHTING	1.00										
17		1" NORTH CORRIDOR LIGHTING	1.00										
19		1" NORTH CORRIDOR LIGHTING	1.00										
21		1" NORTH CORRIDOR LIGHTING	1.00										
23		1" NORTH CORRIDOR LIGHTING	1.00										
25		1" NORTH CORRIDOR LIGHTING	1.00										
27		1" NORTH CORRIDOR LIGHTING	1.00										
29		1" NORTH CORRIDOR LIGHTING	1.00										
31		1" NORTH CORRIDOR LIGHTING	1.00										
33		1" NORTH CORRIDOR LIGHTING	1.00										
35		1" NORTH CORRIDOR LIGHTING	1.00										
37		1" NORTH CORRIDOR LIGHTING	1.00										
39		1" NORTH CORRIDOR LIGHTING	1.00										
41		1" NORTH CORRIDOR LIGHTING	1.00										
TOTALS (KW)			5.00	5.00	2.00	0.00	0.00	PH	0.00	0.00	0.00	0.00	0.00
LOAD SUMMARY													
KW		DF	KWD										
LTC		13.2	17.2										
REC		0.0	0.0										
HVAC		0.0	0.0										
TOTAL		13.2	17.2KW										
AMPS		38.5A	47.7A										
NOTES: F - INSTALLED LABEL PER NEC #700.4(B)													

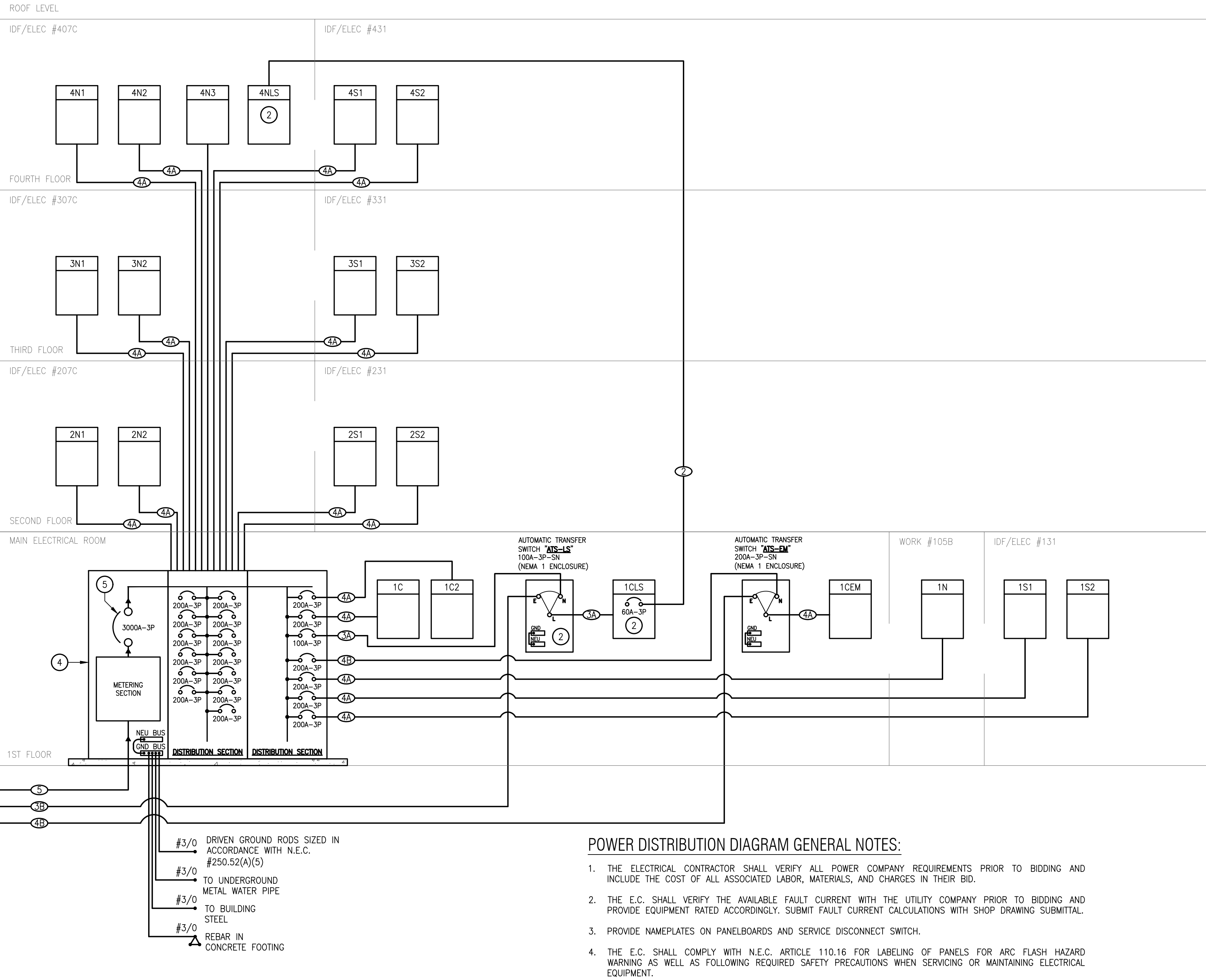


POWER RISER DIAGRAM

FEEDER SCHEDULE				
ID	NOMINAL AMPACITY	CONDUCTOR & CONDUIT SIZE	CONDUCTOR TYPE	NOTES
1	20A	2#10, 1#10(G), 1" C.	COPPER	1,2,3
2	65A	4#3, 1#8(G), 1-1/2" C.	ALUMINUM	1
3A	120A	4#1/0, 1#4(G), 2" C.	ALUMINUM	1
3B	120A	4#1/0, 2" C.	ALUMINUM	1
4A	205A	4#250kcmil, 1#4(G), 2-1/2" C.	ALUMINUM	1
4B	205A	4#250kcmil, 4" C.	ALUMINUM	1
5	3060A	EIGHT SETS OF 4#600kcmil, 4" C.	ALUMINUM	1,4
PC	-	TWO EMPTY 5" CONDUITS.	-	5

FEEDER SCHEDULE NOTES:

- ALL CONDUCTORS ARE BASED ON EITHER TYPE "TW"/"UF" (UNDER AND INCLUDING #1AWG) OR TYPE "THHW"/"THHN" (OVER #1AWG) INSULATION WITH A 60°C RATING (UNDER AND INCLUDING #1AWG) OR A 75°C RATING (OVER #1AWG) IN ADDITION TO 75°C TERMINATIONS. CONDUIT SIZES ARE ALSO INDICATED.
- THE E.C. MAY UTILIZE ALUMINUM CONDUCTORS FOR THIS FEEDER. HOWEVER, THE E.C. IS RESPONSIBLE FOR PROVIDING THE APPROPRIATE CONDUCTOR SIZE IN ACCORDANCE WITH N.E.C. TABLE #310.15(B)(16).
- FEEDER SIZED TO ACCOMMODATE VOLTAGE DROP.
- INCLUDE TWO SPARE, EMPTY 4" CONDUITS WITH PULLSTRING. REFER TO TRENCH SECTION DETAIL ON DRAWING #ES.1.
- ROUTE TWO 5" CONDUITS TO LOCATION DETERMINED BY LOCAL UTILITY COMPANY.



CODED NOTES

- PROVIDE ALL EQUIPMENT, ACCESSORIES, WIRING, ETC. IN COMPLIANCE WITH N.E.C. ARTICLE #700.3(F). THIS SHALL INCLUDE, BUT, NOT BE LIMITED TO THE PROVISION OF A PERMANENT SWITCHING MEANS TO CONNECT TO A PORTABLE/TEMPORARY GENERATOR. MECHANICAL/ELECTRICAL INTERLOCKING FOR THE PREVENTION OF INADVERTENT INTERCONNECTION OF POWER SOURCES, CONTACT POINTS THAT ANNUNCIATE AT A LOCATION REMOTE FROM THE GENERATOR, ETC. THE EMERGENCY STAND-BY GENERATOR MUST BE U.L. LISTED IN ACCORDANCE WITH U.L. #2200. PROVIDE A **20A-120V-1Ø** BRANCH CIRCUIT FOR SERVICE TO GENERATOR BLOCK HEATER. BATTERY CHARGER AND A **20A-120V-1Ø** BRANCH CIRCUIT FOR SERVICE TO GENERATOR BLOCK HEATER. CONNECT PER MANUFACTURER'S WIRING DIAGRAM.
- PRIOR TO ORDERING EQUIPMENT, PROVIDE SELECTIVE COORDINATION STUDY FOR EMERGENCY SYSTEM PER NEC #700.32. CIRCUIT BREAKERS IN PANEL SHALL BE COORDINATED WITH ALL UPSTREAM OVERCURRENT PROTECTION DEVICES.
- PROVIDE CONCRETE PAD OR PRE-CAST CONCRETE VAULT IN ACCORDANCE WITH UTILITY COMPANY REQUIREMENTS. ADDITIONALLY, PROVIDE A TRANSFORMER GROUNDING MAT IN ACCORDANCE WITH UTILITY COMPANY REQUIREMENTS. REFER TO DETAILS ON DRAWING #ES.2 FOR ADDITIONAL INFORMATION.
- PROVIDE A U.L. LISTED "SERVICE ENTRANCE RATED" (RATINGS AS INDICATED ON RISER) DISTRIBUTION SWITCHBOARD, TYPICALLY **SIEMENS #82 SERIES**. ASSEMBLY SHALL BE RATED AT A MINIMUM 100,000 RMS SYMMETRICAL SHORT CIRCUIT AMPERES. SWITCHBOARD SHALL INCLUDE ANY SECTION/PROVISIONS FOR UTILITY COMPANY METERING COMPLYING WITH LOCAL UTILITY COMPANY REQUIREMENTS AND SHALL INCLUDE A SIEMENS #1PS306 SURGE PROTECTION DEVICE OR EQUAL BY OTHERS. PROVIDE CONCRETE PAD IN ACCORDANCE WITH MANUFACTURER'S INSTRUCTIONS.
- PROVIDE ARC FAULT REDUCTION IN ACCORDANCE WITH N.E.C. ARTICLE #240.87.



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ATWELL SUITES
AN IHG HOTEL
ERLEN DR. & MINDEN DR. FISHERS, INDIANA 46037
POWER RISER DIAGRAM AND LOAD CALCULATIONS

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CIRCUIT BREAKER PANEL SCHEDULE																
UNIT		CIRCUIT		VOLTAGE				TYPE		RATING		LOCATION		NOTES		
MOUNTING		SURFACE		LOCATING				MATERIAL		JUNCTION		70.0		70.0		
WTR	EXT	DESCRIPTION		175	185	195	205	215	225	235	245	255	265	275	285	
4		F.V. CHARGER		2.35												
5		F.V. CHARGER		2.35												
6		F.V. CHARGER		2.35												
7		F.V. CHARGER		2.35												
8		F.V. CHARGER		2.35												
9		F.V. CHARGER		2.35												
10		F.V. CHARGER		2.35												
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17		F.V. CHARGER		2.35												
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30		F.V. CHARGER		2.35												
31		F.V. CHARGER		2.35												
32		F.V. CHARGER		2.35												
33		F.V. CHARGER		2.35												
34		F.V. CHARGER		2.35												
35		F.V. CHARGER		2.35												
36		F.V. CHARGER		2.35												
37		F.V. CHARGER		2.35												
38		F.V. CHARGER		2.35												
39		F.V. CHARGER		2.35												
40		F.V. CHARGER		2.35												
41		F.V. CHARGER		2.35												
42		F.V. CHARGER		2.35												
TOTALS (KW)				7.47	0.74	0.70	0.77	4.77			2.80	3.10	0.00	3.06	2.27	
TOTALS (KW)																

LOAD SUMMARY			
TYPE	WTR	EXT	KW/L
175	4.7	1.22	50.5
185	0.7	0.6	0.7
195	0.7	0.6	0.7
205	3.7	1.07	5.7
215	7.9	1.02	7.9
TOTAL	18.7	70.8W	
WTR	18.7	70.8W	

PANEL DATA			
Phase A	WTR	KW/L	TOC
175	2.7	1.23	2.0
185	1.0	1.07	2.7
195	2.2	1.0	2.7
205	2.2	1.0	2.7
215	2.2	1.0	2.7

NOTES: 1. GFCI PROTECTION.

CIRCUIT BREAKER PANEL SCHEDULE															
NAME		101	V.O. TAGS		200A120V-32-400		TUBES		22RA		40		P.A.C.		
MISC. VOLT.		SULF-ACE		LOCATION		SOUTH H-F-EL-ED		W-V-V-C-OR-LY		KWH		46			
WTE	SRT	DESCRIPTION	LVS	RCS	PSES	KAUS	PH	CS	MISC	KAC	RCS	STS	DESCRIPTION	WTE	
1	1	F.UITE: 20 KITCHENETTE RESS.	0.18	1.08	1.08	2.01	A	2.01	-0	0.5	0.5	0.5	S.UITE: 20 KITCHENETTE RESS.	2	
2	2	F.UITE: 20 BATHROOM RES.	0.18	1.08	1.08	2.01	A	2.01	-0	0.5	0.5	0.5	S.UITE: 20 BATHROOM RES.	3	
3	3	F.UITE: 20 GENERAL RESS.	0.18	1.08	1.08	2.01	A	2.01	-0	0.5	0.5	0.5	S.UITE: 20 GENERAL RESS.	4	
4	4	F.UITE: 20 LITS AND TV AREA RESS.	0.18	1.08	1.08	2.01	A	2.01	-0	0.5	0.5	0.5	S.UITE: 20 LITS AND TV AREA RESS.	5	
5	5	F.UITE: 20 KITCHENETTE RESS.	0.18	1.08	1.08	2.01	A	2.01	-0	0.5	0.5	0.5	S.UITE: 20 KITCHENETTE RESS.	6	
6	6	F.UITE: 20 BATHROOM RES.	0.18	1.08	1.08	2.01	A	2.01	-0	0.5	0.5	0.5	S.UITE: 20 BATHROOM RES.	7	
7	7	F.UITE: 20 GENERAL RESS.	0.18	1.08	1.08	2.01	A	2.01	-0	0.5	0.5	0.5	S.UITE: 20 GENERAL RESS.	8	
8	8	F.UITE: 20 LITS AND TV AREA RESS.	0.18	1.08	1.08	2.01	A	2.01	-0	0.5	0.5	0.5	S.UITE: 20 LITS AND TV AREA RESS.	9	
9	9	F.UITE: 20 KITCHENETTE RESS.	0.18	1.08	1.08	2.01	A	2.01	-0	0.5	0.5	0.5	S.UITE: 20 KITCHENETTE RESS.	10	
10	10	F.UITE: 20 BATHROOM RES.	0.18	1.08	1.08	2.01	A	2.01	-0	0.5	0.5	0.5	S.UITE: 20 BATHROOM RES.	11	
11	11	F.UITE: 20 GENERAL RESS.	0.18	1.08	1.08	2.01	A	2.01	-0	0.5	0.5	0.5	S.UITE: 20 GENERAL RESS.	12	
12	12	F.UITE: 20 LITS AND TV AREA RESS.	0.18	1.08	1.08	2.01	A	2.01	-0	0.5	0.5	0.5	S.UITE: 20 LITS AND TV AREA RESS.	13	
13	13	F.UITE: 20 KITCHENETTE RESS.	0.18	1.08	1.08	2.01	A	2.01	-0	0.5	0.5	0.5	S.UITE: 20 KITCHENETTE RESS.	14	
14	14	F.UITE: 20 BATHROOM RES.	0.18	1.08	1.08	2.01	A	2.01	-0	0.5	0.5	0.5	S.UITE: 20 BATHROOM RES.	15	
15	15	F.UITE: 20 GENERAL RESS.	0.18	1.08	1.08	2.01	A	2.01	-0	0.5	0.5	0.5	S.UITE: 20 GENERAL RESS.	16	
16	16	F.UITE: 20 LITS AND TV AREA RESS.	0.18	1.08	1.08	2.01	A	2.01	-0	0.5	0.5	0.5	S.UITE: 20 LITS AND TV AREA RESS.	17	
17	17	F.UITE: 20 KITCHENETTE RESS.	0.18	1.08	1.08	2.01	A	2.01	-0	0.5	0.5	0.5	S.UITE: 20 KITCHENETTE RESS.	18	
18	18	F.UITE: 20 BATHROOM RES.	0.18	1.08	1.08	2.01	A	2.01	-0	0.5	0.5	0.5	S.UITE: 20 BATHROOM RES.	19	
19	19	F.UITE: 20 GENERAL RESS.	0.18	1.08	1.08	2.01	A	2.01	-0	0.5	0.5	0.5	S.UITE: 20 GENERAL RESS.	20	
20	20	F.UITE: 20 LITS AND TV AREA RESS.	0.18	1.08	1.08	2.01	A	2.01	-0	0.5	0.5	0.5	S.UITE: 20 LITS AND TV AREA RESS.	21	
21	21	F.UITE: 20 KITCHENETTE RESS.	0.18	1.08	1.08	2.01	A	2.01	-0	0.5	0.5	0.5	S.UITE: 20 KITCHENETTE RESS.	22	
22	22	F.UITE: 20 BATHROOM RES.	0.18	1.08	1.08	2.01	A	2.01	-0	0.5	0.5	0.5	S.UITE: 20 BATHROOM RES.	23	
23	23	F.UITE: 20 GENERAL RESS.	0.18	1.08	1.08	2.01	A	2.01	-0	0.5	0.5	0.5	S.UITE: 20 GENERAL RESS.	24	
24	24	F.UITE: 20 LITS AND TV AREA RESS.	0.18	1.08	1.08	2.01	A	2.01	-0	0.5	0.5	0.5	S.UITE: 20 LITS AND TV AREA RESS.	25	
25	25	F.UITE: 20 KITCHENETTE RESS.	0.18	1.08	1.08	2.01	A	2.01	-0	0.5	0.5	0.5	S.UITE: 20 KITCHENETTE RESS.	26	
26	26	F.UITE: 20 BATHROOM RES.	0.18	1.08	1.08	2.01	A	2.01	-0	0.5	0.5	0.5	S.UITE: 20 BATHROOM RES.	27	
27	27	F.UITE: 20 GENERAL RESS.	0.18	1.08	1.08	2.01	A	2.01	-0	0.5	0.5	0.5	S.UITE: 20 GENERAL RESS.	28	
28	28	F.UITE: 20 LITS AND TV AREA RESS.	0.18	1.08	1.08	2.01	A	2.01	-0	0.5	0.5	0.5	S.UITE: 20 LITS AND TV AREA RESS.	29	
29	29	F.UITE: 20 KITCHENETTE RESS.	0.18	1.08	1.08	2.01	A	2.01	-0	0.5	0.5	0.5	S.UITE: 20 KITCHENETTE RESS.	30	
30	30	F.UITE: 20 BATHROOM RES.	0.18	1.08	1.08	2.01	A	2.01	-0	0.5	0.5	0.5	S.UITE: 20 BATHROOM RES.	31	
31	31	F.UITE: 20 GENERAL RESS.	0.18	1.08	1.08	2.01	A	2.01	-0	0.5	0.5	0.5	S.UITE: 20 GENERAL RESS.	32	
32	32	F.UITE: 20 LITS AND TV AREA RESS.	0.18	1.08	1.08	2.01	A	2.01	-0	0.5	0.5	0.5	S.UITE: 20 LITS AND TV AREA RESS.	33	
33	33	F.UITE: 20 KITCHENETTE RESS.	0.18	1.08	1.08	2.01	A	2.01	-0	0.5	0.5	0.5	S.UITE: 20 KITCHENETTE RESS.	34	
34	34	F.UITE: 20 BATHROOM RES.	0.18	1.08	1.08	2.01	A	2.01	-0	0.5	0.5	0.5	S.UITE: 20 BATHROOM RES.	35	
35	35	F.UITE: 20 GENERAL RESS.	0.18	1.08	1.08	2.01	A	2.01	-0	0.5	0.5	0.5	S.UITE: 20 GENERAL RESS.	36	
36	36	F.UITE: 20 LITS AND TV AREA RESS.	0.18	1.08	1.08	2.01	A	2.01	-0	0.5	0.5	0.5	S.UITE: 20 LITS AND TV AREA RESS.	37	
37	37	F.UITE: 20 KITCHENETTE RESS.	0.18	1.08	1.08	2.01	A	2.01	-0	0.5	0.5	0.5	S.UITE: 20 KITCHENETTE RESS.	38	
38	38	F.UITE: 20 BATHROOM RES.	0.18	1.08	1.08	2.01	A	2.01	-0	0.5	0.5	0.5	S.UITE: 20 BATHROOM RES.	39	
39	39	F.UITE: 20 GENERAL RESS.	0.18	1.08	1.08	2.01	A	2.01	-0	0.5	0.5	0.5	S.UITE: 20 GENERAL RESS.	40	
40	40	F.UITE: 20 LITS AND TV AREA RESS.	0.18	1.08	1.08	2.01	A	2.01	-0	0.5	0.5	0.5	S.UITE: 20 LITS AND TV AREA RESS.	41	
41	41	F.UITE: 20 KITCHENETTE RESS.	0.18	1.08	1.08	2.01	A	2.01	-0	0.5	0.5	0.5	S.UITE: 20 KITCHENETTE RESS.	42	
42	42	F.UITE: 20 BATHROOM RES.	0.18	1.08	1.08	2.01	A	2.01	-0	0.5	0.5	0.5	S.UITE: 20 BATHROOM RES.	43	
43	43	F.UITE: 20 GENERAL RESS.	0.18	1.08	1.08	2.01	A	2.01	-0	0.5	0.5	0.5	S.UITE: 20 GENERAL RESS.	44	
44	44	F.UITE: 20 LITS AND TV AREA RESS.	0.18	1.08	1.08	2.01	A	2.01	-0	0.5	0.5	0.5	S.UITE: 20 LITS AND TV AREA RESS.	45	
45	45	F.UITE: 20 KITCHENETTE RESS.	0.18	1.08	1.08	2.01	A	2.01	-0	0.5	0.5	0.5	S.UITE: 20 KITCHENETTE RESS.	46	
46	46	F.UITE: 20 BATHROOM RES.	0.18	1.08	1.08	2.01	A	2.01	-0	0.5	0.5	0.5	S.UITE: 20 BATHROOM RES.	47	
47	47	F.UITE: 20 GENERAL RESS.	0.18	1.08	1.08	2.01	A	2.01	-0	0.5	0.5	0.5	S.UITE: 20 GENERAL RESS.	48	
48	48	F.UITE: 20 LITS AND TV AREA RESS.	0.18	1.08	1.08	2.01	A	2.01	-0	0.5	0.5	0.5	S.UITE: 20 LITS AND TV AREA RESS.	49	
49	49	F.UITE: 20 KITCHENETTE RESS.	0.18	1.08	1.08	2.01	A	2.01	-0	0.5	0.5	0.5	S.UITE: 20 KITCHENETTE RESS.	50	
50	50	F.UITE: 20 BATHROOM RES.	0.18	1.08	1.08	2.01	A	2.01	-0	0.5	0.5	0.5	S.UITE: 20 BATHROOM RES.	51	
51	51	F.UITE: 20 GENERAL RESS.	0.18	1.08	1.08	2.01	A	2.01	-0	0.5	0.5	0.5	S.UITE: 20 GENERAL RESS.	52	
52	52	F.UITE: 20 LITS AND TV AREA RESS.	0.18	1.08	1.08	2.01	A	2.01	-0	0.5	0.5	0.5	S.UITE: 20 LITS AND TV AREA RESS.	53	
53	53	F.UITE: 20 KITCHENETTE RESS.	0.18	1.08	1.08	2.01	A	2.01	-0	0.5	0.5	0.5	S.UITE: 20 KITCHENETTE RESS.	54	
54	54	F.UITE: 20 BATHROOM RES.	0.18	1.08	1.08	2.01	A	2.01	-0	0.5	0.5	0.5	S.UITE: 20 BATHROOM RES.	55	
55	55	F.UITE: 20 GENERAL RESS.	0.18	1.08	1.08	2.01	A	2.01	-0	0.5	0.5	0.5	S.UITE: 20 GENERAL RESS.	56	
56	56	F.UITE: 20 LITS AND TV AREA RESS.	0.18	1.08	1.08	2.01	A	2.01	-0	0.5	0.5	0.5	S.UITE: 20 LITS AND TV AREA RESS.	57	
57	57	F.UITE: 20 KITCHENETTE RESS.	0.18	1.08	1.08	2.01	A	2.01	-0	0.5	0.5	0.5	S.UITE: 20 KITCHENETTE RESS.	58	
58	58	F.UITE: 20 BATHROOM RES.	0.18	1.08	1.08	2.01	A	2.01	-0	0.5	0.5	0.5	S.UITE: 20 BATHROOM RES.	59	
59	59	F.UITE: 20 GENERAL RESS.	0.18	1.08	1.08	2.01	A	2.01	-0	0.5	0.5	0.5	S.UITE: 20 GENERAL RESS.	60	
60	60	F.UITE: 20 LITS AND TV AREA RESS.	0.18	1.08	1.08	2.01	A	2.01	-0	0.5	0.5	0.5	S.UITE: 20 LITS AND TV AREA RESS.	61	
61	61	F.UITE: 20 KITCHENETTE RESS.	0.18	1.08	1.08	2.01	A	2.01	-0	0.5	0.5	0.5	S.UITE: 20 KITCHENETTE RESS.	62	
62	62	F.UITE: 20 BATHROOM RES.	0.18	1.08	1.08	2.01	A	2.01	-0	0.5	0.5	0.5	S.UITE: 20 BATHROOM RES.	63	
63	63	F.UITE: 20 GENERAL RESS.	0.18	1.08	1.08	2.01	A	2.01	-0	0.5	0.5	0.5	S.UITE: 20 GENERAL RESS.	64	
64	64	F.UITE: 20 LITS AND TV AREA RESS.	0.18	1.08	1.08	2.01	A	2.01	-0	0.5	0.5	0.5	S.UITE: 20 LITS AND TV AREA RESS.	65	
65	65	F.UITE: 20 KITCHENETTE RESS.	0.18	1.08	1.08	2.01	A	2.01	-0	0.5	0.5	0.5	S.UITE: 20 KITCHENETTE RESS.	66	
66	66	F.UITE: 20 BATHROOM RES.	0.18	1.08	1.08	2.01	A	2.01	-0	0.5	0.5	0.5	S.UITE: 20 BATHROOM RES.	67	
67	67	F.UITE: 20 GENERAL RESS.	0.18	1.08	1.08	2.01	A	2.01	-0	0.5	0.5	0.5	S.UITE: 20 GENERAL RESS.	68	
68	68	F.UITE: 20 LITS AND TV AREA RESS.	0.18	1.08	1.08	2.01	A	2.01	-0	0.5	0.5	0.5	S.UITE: 20 LITS AND TV AREA RESS.	69	
69	69	F.UITE: 20 KITCHENETTE RESS.	0.18	1.08	1.08	2.01	A	2.01	-0	0.5	0.5	0.5	S.UITE: 20 KITCHENETTE RESS.	70	
70	70	F.UITE: 20 BATHROOM RES.	0.18	1.08	1.08	2.01	A	2.01	-0	0.5	0.5	0.5	S.UITE: 20 BATHROOM RES.	71	
71	71	F.UITE: 20 GENERAL RESS.	0.18	1.08	1.08	2.01	A	2.01	-0	0.5	0.5	0.5	S.UITE: 20 GENERAL RESS.	72	
TOTALS (KW)			30		15.00	0.00	2.00	11.20	PH	-1.20	3.00	0.00	15.70	1.20	TOTALS (KW)

LOAD SUMMARY				PANEL DATA						
	KWC	DF	KWD		KWD	KWC	ITD	EFF	PERMANENT	DIFF
TPG	7.4	1.55	3.0	KW Demand C	21.9	22.5	0.9	1.3	1.5	0.4
REC	32.6	N/A	21.3	KW Demand B	28.4	29.7	0.9	0.9	0.5	1.6
FRQ	0.0	0.05	0.0	KW Demand D	12.8	12.9	0.9	1.2	0.2	0.0
HVAC	3.0	1.00	3.0							
MISC	22.4	1.00	22.4							
TOTAL	60.4		49.7KW							
IMPS	67.8A		127.6A							

NOTES: G - GFCI PROTECTION

CIRCUIT BREAKER PANEL SCHEDULE															
44MM ²		152		VOLTAGE:		208V/120V/3Ø-W		CUBS		220A		PANEL:		10	
CIRCUIT NO:		SURFACE		LOCATION:		SOUTH ELEC		C/A N		400V/3Ø-W		N/C:		62 Ø	
NOTE	SKT	DESCRIPTION		L/S	PH	W	W	W	W	W	W	W	W	W	W
	1	BULB/20 P/AC		1.50	200	A	1.50								2
				1.50	200	B	1.50								3
	5	BULB/20 P/AC		1.50	200	C	1.50								4
	7	BULB/20 P/AC		1.50	200	A	1.50								5
				1.50	200	B	1.50								6
	9	BULB/20 P/AC		1.50	200	C	1.50								7
	11	BULB/20 P/AC		1.50	200	A	1.50								8
				1.50	200	B	1.50								9
	13	BULB/20 P/AC		1.50	200	C	1.50								10
				1.50	200	A	1.50								11
	15	BULB/20 P/AC		1.50	200	B	1.50								12
				1.50	200	C	1.50								13
	17	BULB/20 P/AC		1.50	200	A	1.50								14
				1.50	200	B	1.50								15
	19	BULB/20 P/AC		1.50	200	C	1.50								16
				1.50	200	A	1.50								17
	21	BULB/20 P/AC		1.50	200	B	1.50								18
	23	BULB/20 P/AC		1.50	200	C	1.50								19
				1.50	200	A	1.50								20
	25	BULB/20 P/AC		1.50	200	B	1.50								21
				1.50	200	C	1.50								22
	27	BULB/20 P/AC		1.50	200	A	1.50								23
				1.50	200	B	1.50								24
	29	BULB/20 P/AC		1.50	200	C	1.50								25
				1.50	200	A	1.50								26
	31	BULB/20 P/AC		1.50	200	B	1.50								27
				1.50	200	C	1.50								28
	33	BULB/20 P/AC		1.50	200	A	1.50								29
				1.50	200	B	1.50								30
	35	BULB/20 P/AC		1.50	200	C	1.50								31
				1.50	200	A	1.50								32
	37	BULB/20 P/AC		1.50	200	B	1.50								33
				1.50	200	C	1.50								34
	39	BULB/20 P/AC		1.50	200	A	1.50								35
				1.50	200	B	1.50								36
	41	BULB/20 P/AC		1.50	200	C	1.50								37
				1.50	200	A	1.50								38
	43	BULB/20 P/AC		1.50	200	B	1.50								39
				1.50	200	C	1.50								40
	45	BULB/20 P/AC		1.50	200	A	1.50								41
				1.50	200	B	1.50								42
	47	BULB/20 P/AC		1.50	200	C	1.50								43
				1.50	200	A	1.50								44
	49	BULB/20 P/AC		1.50	200	B	1.50								45
				1.50	200	C	1.50								46
	51	BULB/20 P/AC		1.50	200	A	1.50								47
				1.50	200	B	1.50								48
	53	BULB/20 P/AC		1.50	200	C	1.50								49
				1.50	200	A	1.50								50
	55	BULB/20 P/AC		1.50	200	B	1.50								51
				1.50	200	C	1.50								52
	57	BULB/20 P/AC		1.50	200	A	1.50								53
				1.50	200	B	1.50								54
	59	BULB/20 P/AC		1.50	200	C	1.50								55
				1.50	200	A	1.50								56
	61	BULB/20 P/AC		1.50	200	B	1.50								57
				1.50	200	C	1.50								58
	63	BULB/20 P/AC		1.50	200	A	1.50								59
				1.50	200	B	1.50								60
	65	BULB/20 P/AC		1.50	200	C	1.50								61
				1.50	200	A	1.50								62
	67	BULB/20 P/AC		1.50	200	B	1.50								63
				1.50	200	C	1.50								64
	69	BULB/20 P/AC		1.50	200	A	1.50								65
				1.50	200	B	1.50								66
	71	BULB/20 P/AC		1.50	200	C	1.50								67
				1.50	200	A	1.50								68
	73	BULB/20 P/AC		1.50	200	B	1.50								69
				1.50	200	C	1.50								70
	75	BULB/20 P/AC		1.50	200	A	1.50								71
				1.50	200	B	1.50								72
	77	BULB/20 P/AC		1.50	200	C	1.50								73
				1.50	200	A	1.50								74
	79	BULB/20 P/AC		1.50	200	B	1.50								75
				1.50	200	C	1.50								76
	81	BULB/20 P/AC		1.50	200	A	1.50								77
				1.50	200	B	1.50								78
	83	BULB/20 P/AC		1.50	200	C	1.50								79
				1.50	200	A	1.50								80
	85	BULB/20 P/AC		1.50	200	B	1.50								81
				1.50	200	C	1.50								82
	87	BULB/20 P/AC		1.50	200	A	1.50								83
				1.50	200	B	1.50								84
	89	BULB/20 P/AC		1.50	200	C	1.50								85
				1.50	200	A	1.50								86
	91	BULB/20 P/AC		1.50	200	B	1.50								87
				1.50	200	C	1.50								88
	93	BULB/20 P/AC		1.50	200	A	1.50								89
				1.50	200	B	1.50								90
	95	BULB/20 P/AC		1.50	200	C	1.50								91
				1.50	200	A	1.50								92
	97	BULB/20 P/AC		1.50	200	B	1.50								93
				1.50	200	C	1.50								94
	99	BULB/20 P/AC		1.50	200	A	1.50								95
				1.50	200	B	1.50								96
	101	BULB/20 P/AC		1.50	200	C	1.50								97
				1.50	200	A	1.50								98
	103	BULB/20 P/AC		1.50	200	B	1.50								99
				1.50	200	C	1.50								100
	105	BULB/20 P/AC		1.50	200	A	1.50								101
				1.50	200	B	1.50								102
	107	BULB/20 P/AC		1.50	200	C	1.50								103
				1.50	200	A	1.50								104
	109	BULB/20 P/AC		1.50	200	B	1.50								105
				1.50	200	C	1.50								106
	111	BULB/20 P/AC		1.50	200	A	1.50								107
				1.50	200	B	1.50								108
	113	BULB/20 P/AC		1.50	200	C	1.50								109
				1.50	200	A	1.50								110
	115	BULB/20 P/AC		1.50	200	B	1.50								111
				1.50	200	C	1.50								112
	117	BULB/20 P/AC		1.50	200	A	1.50								113
				1.50	200	B	1.50								114
	119	BULB/20 P/AC		1.50	200	C	1.50								115
				1.50	200	A	1.50								116
	121	BULB/20 P/AC		1.50	200	B	1.50								117
				1.50	200	C	1.50								118
	123	BULB/20 P/AC		1.50	200	A	1.50								119
				1.50	200	B	1.50								120
	125	BULB/20 P/AC		1.50	200	C	1.50								121
				1.50	200	A	1.50								122
	127	BULB/20 P/AC		1.50	200	B	1.50								123
				1.50	200	C	1.50								124
	129	BULB/20 P/AC		1.50	200	A	1.50								125
				1.50	200	B	1.50								126
	131	BULB/20 P/AC		1.50	200	C	1.50								127
				1.50	200	A	1.50								128
	133	BULB/20 P/AC		1.50	200	B	1.50								129
				1.50	200	C	1.50								130
	135	BULB/20 P/AC		1.50	200	A	1.50								131
				1.50	200	B	1.50								132
	137														

[illegible]

LOAD SUMMARY				PANEL DATA							
	KW0	DF	KWD	KW Phase A	KWD	KW0	L/G	KVA0	Used	KVA0	
L/G	2.4	7.5%	3.3			22.5	0.8	11.5	0.0	1.2	5.0
REC	35.5	NEC	21.7	KW Phase B		26.2	0.7	10.4	0.0	0.7	5.0
FS+Q	0.0	7.6%	0.3	KW Phase C		18.1	0.7	9.2	0.0	0.2	5.0
HVAC	1.2	7.0%	1.2								
MISC	24.4	7.0%	24.4								
TOTAL	31.5		50.4KW								
AMPS	170.75		139.6A								

NOTES: 1. GFC PROTECTION

CIRCUIT BREAKER PANEL SCHEDULE															
NAME:		242		VOLTAGE:		208/120V/3-Ø-4W		B-S-B:		225A		440C:		C	
MOUNTING:		S-RFACE		LOCATION:		37F/CLD-2, 207B		MAIN LUGS ONLY		440C:		SE-3			
CRCL	CRCL	DESCRIPTION										CRCL	CRCL		
1	2	3-Ø/1L 201 PTAC										195	202		
3	4	3-Ø/TE 202 PTAC										196	203		
7	8	3-Ø/TE 203 PTAC										196	203		
9	10	3-Ø/TE 203 PTAC										196	203		
11	12											196	203		
13	14	3-Ø/TF 204 PTAC										196	204		
15	16											196	204		
17	18	3-Ø/1L 205 PTAC										196	205		
19	20											196	205		
21	22	3-Ø/TE 210 PTAC										196	202		
23	24											196	202		
27	28	3-Ø/TE 215 PTAC										196	202		
29	30											196	202		
31	32	3-Ø/TF 217 PTAC										196	205		
33	34											196	205		
35	36	3-Ø/1L 206 PTAC										196	206		
37	38	3-Ø/1L 206 PTAC										196	206		
39	40	3-Ø/1L 206 PTAC										196	206		
41	42	3-Ø/1L 206 PTAC										196	206		
TOTALS (KW):		0.02	23.6	0.00	24.90	0.50	PH	1.20	24.80	0.02	0.02	TOTALS (KW):			

LOAD SUMMARY						
	KWC	DF	KWD		KWC	KWD
L C	0.0	125	0.0			
R C	5.0	NB	3.0			
W C	0.0	NB	0.0			
W C	40.8	100	41.8			
M C	7.4	100	7.4			
TOTAL	53.3		55.3	AMP		
AMP	154.3A		164.3A			

PANEL DATA		KWD	(KWC)	(KWD)	(KWC)	(KWD)
KW Phase A	19.7	0.7	1.1	0.7	0.8	0.7
KW Phase B	19.8	0.6	0.8	0.7	0.8	1.1
KW Phase C	19.1	1.1	0.7	0.8	0.7	0.8

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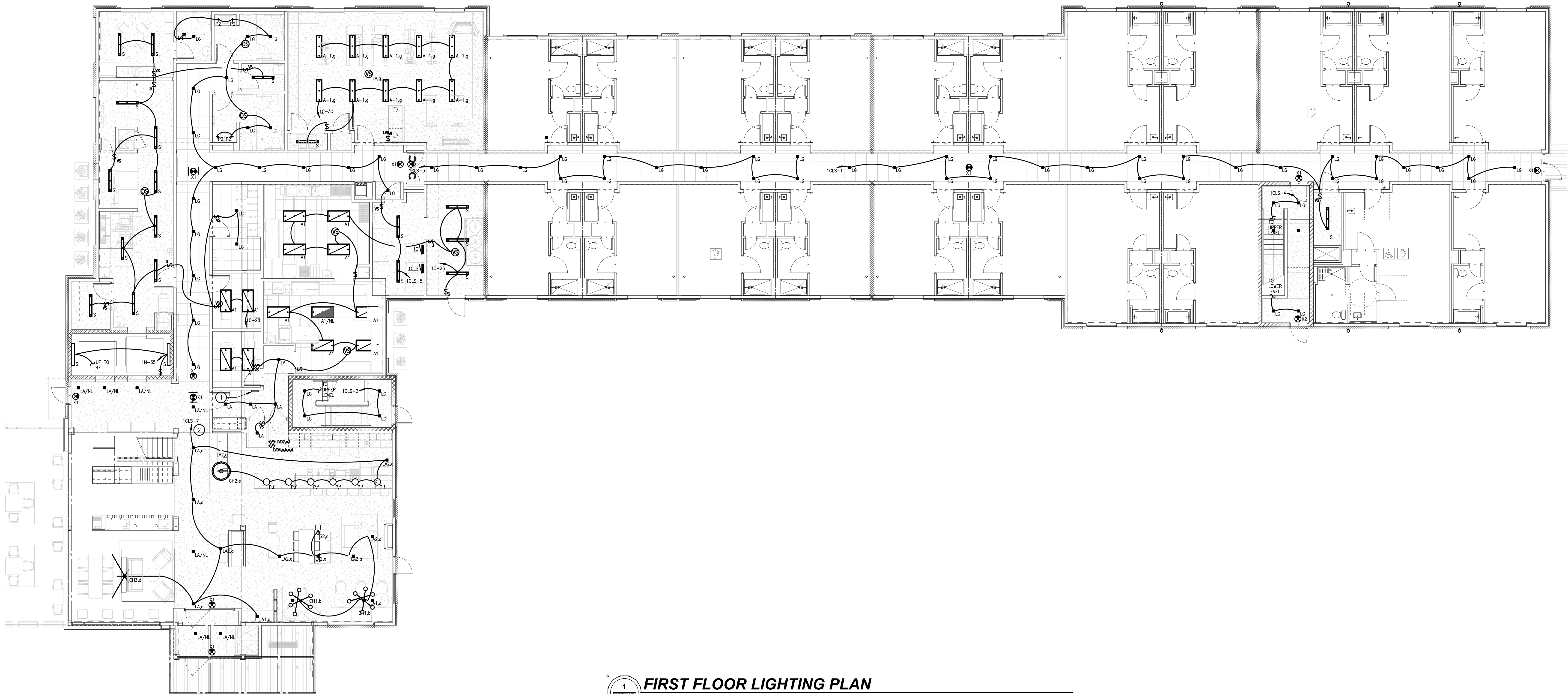
PANEL SCHEDULES

ISSUE / REVISION DATE:

05/04/2022	OWNER REVIEW
06/23/2022	OWNER REVIEW
08/04/2022	PRELIMINARY REVIEW
01/13/2023	FRANCHISE REVIEW
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09/19/2023	IHG FINAL REVIEW
11/17/2023	SAXONY DESIGN REVIEW 2
● 01/26/2024	FOR CONSTRUCTION

CIRCUIT BREAKER PANEL SCHEDULE																							
NAME:		287		VOLTAGE:		208/120V/3Ø-4W		BUSES:		225A		KVA:		70									
MOUNTING:		SURFACE		LOCATION:		DIELECTRIC: 251		MAIN LUG ONLY		KWD:		40.7											
NOTE	QTY	DESCRIPTION		LTS	REC	FREQ	4-W	REC	Ø	PH	Ø	REC	4-W	REC	Ø	DESCRIPTION		QTY	NOTE				
	1	SUIT 220 KITCHENETTE RECS														SUIT 220 KITCHENETTE RECS		2					
	3	SUIT 220 BATHROOM RECS														SUIT 220 BATHROOM RECS		4					
	5	SUIT 220 GENERAL RECS														SUIT 220 GENERAL RECS		6					
	7	SUIT 220 LIT AND TV AREA RECS		0.15	0.05											SUIT 220 LIT AND TV AREA RECS		8					
	9	SUIT 220 KITCHENETTE RECS														SUIT 220 KITCHENETTE RECS		10					
	11	SUIT 220 BATHROOM RECS														SUIT 220 BATHROOM RECS		12					
	13	SUIT 220 GENERAL RECS														SUIT 220 GENERAL RECS		14					
	15	SUIT 220 LIT AND TV AREA RECS		0.15	0.05											SUIT 220 LIT AND TV AREA RECS		16					
	17	SUIT 220 KITCHENETTE RECS														SUIT 220 KITCHENETTE RECS		18					
	19	SUIT 220 BATHROOM RECS														SUIT 220 BATHROOM RECS		20					
	21	SUIT 220 GENERAL RECS														SUIT 220 GENERAL RECS		22					
	23	SUIT 220 LIT AND TV AREA RECS		0.15	0.05											SUIT 220 LIT AND TV AREA RECS		24					
	25	SUIT 220 KITCHENETTE RECS														SUIT 220 KITCHENETTE RECS		26					
	27	SUIT 220 BATHROOM RECS														SUIT 220 BATHROOM RECS		28					
	29	SUIT 220 GENERAL RECS														SUIT 220 GENERAL RECS		30					
	31	SUIT 220 LIT AND TV AREA RECS		0.15	0.05											SUIT 220 LIT AND TV AREA RECS		32					
	33	SUIT 220 KITCHENETTE RECS														SUIT 220 KITCHENETTE RECS		34					
	35	SUIT 220 BATHROOM RECS														SUIT 220 BATHROOM RECS		36					
	37	SUIT 220 GENERAL RECS														SUIT 220 GENERAL RECS		38					
	39	SUIT 220 LIT AND TV AREA RECS		0.15	0.05											SUIT 220 LIT AND TV AREA RECS		40					
	41	SUIT 220 KITCHENETTE RECS														SUIT 220 KITCHENETTE RECS		42					
	43	SUIT 220 BATHROOM RECS														SUIT 220 BATHROOM RECS		44					
	45	SUIT 220 GENERAL RECS														SUIT 220 GENERAL RECS		46					
	47	SUIT 220 LIT AND TV AREA RECS		0.15	0.05											SUIT 220 LIT AND TV AREA RECS		48					
	49	SUIT 220 KITCHENETTE RECS														SUIT 220 KITCHENETTE RECS		50					
	51	SUIT 220 BATHROOM RECS														SUIT 220 BATHROOM RECS		52					
	53	SUIT 220 GENERAL RECS														SUIT 220 GENERAL RECS		54					
	55	SUIT 220 LIT AND TV AREA RECS		0.15	0.05											SUIT 220 LIT AND TV AREA RECS		56					
	57	SUIT 220 KITCHENETTE RECS														SUIT 220 KITCHENETTE RECS		58					
	59	SUIT 220 BATHROOM RECS														SUIT 220 BATHROOM RECS		60					
	61	SUIT 220 GENERAL RECS														SUIT 220 GENERAL RECS		62					
	63	SUIT 220 LIT AND TV AREA RECS		0.15	0.05											SUIT 220 LIT AND TV AREA RECS		64					
	65	S-PHASE														COMMON BUS		66					
	67	S-PHASE														S-PHASE		68					
	69	S-PHASE														S-PHASE		70					
	71	S-PHASE														S-PHASE		72					
TOTALS (KW)				12.2	15.34	0.00	0.00	0.00	1.20	PH	11.20	0.00	0.00	10.74	1.20	TOTALS (KW)							
LOAD SUMMARY				PANEL DATA				KWD	KW/C	LTS	REC	FREQ	4-W	REC									
LTS				KW/C				20.3	20.8	0.0	0.0	0.0	0.0	0.0									
REC				KW Phase A				18.8	18.7	0.0	0.0	0.0	0.0	0.0									
FREQ				KW Phase B				17.2	17.9	0.0	0.0	0.0	0.0	0.0									
4-W				KW Phase C																			
TOTAL				LTS				40.7	40.7	0.0	0.0	0.0	0.0	0.0									
AMPS				KW/C				131.7	131.7	0.0	0.0	0.0	0.0	0.0									
NOTES: G - GFCI PROTECTION																							

CIRCUIT BREAKER PANEL SCHEDULE																							
NAME:		287		VOLTAGE:		208/120V/3Ø-4W		BUSES:		225A		KVA:		70									
MOUNTING:		SURFACE		LOCATION:		DIELECTRIC: 251		MAIN LUG ONLY		KWD:		40.7											
NOTE	QTY	DESCRIPTION		LTS	REC	FREQ	4-W	REC	Ø	PH	Ø	REC	4-W	REC	Ø	DESCRIPTION		QTY	NOTE				
	1	SUIT 220 PTAC														SUIT 220 PTAC		2					
	3	SUIT 220 PTAC														SUIT 220 PTAC		4					
	5	SUIT 220 PTAC														SUIT 220 PTAC		6					
	7	SUIT 220 PTAC														SUIT 220 PTAC		8					
	9	SUIT 220 PTAC														SUIT 220 PTAC		10					
	11	SUIT 220 PTAC														SUIT 220 PTAC		12					
	13	SUIT 220 PTAC														SUIT 220 PTAC		14					
	15	SUIT 220 PTAC														SUIT 220 PTAC		16					
	17	SUIT 220 PTAC														SUIT 220 PTAC		18					
	19	SUIT 220 PTAC														SUIT 220 PTAC		20					
	21	SUIT 220 PTAC														SUIT 220 PTAC		22					
	23	SUIT 220 PTAC														SUIT 220 PTAC		24					
	25	SUIT 220 PTAC														SUIT 220 PTAC		26					
	27	SUIT 220 PTAC														SUIT 220 PTAC		28					
	29	SUIT 220 PTAC														SUIT 220 PTAC		30					
	31	SUIT 220 PTAC														SUIT 220 PTAC		32					
	33	SUIT 220 PTAC														SUIT 220 PTAC		34					
	35	SUIT 220 PTAC														SUIT 220 PTAC		36					
	37	SUIT 220 PTAC														SUIT 220 PTAC		38					
	39	SUIT 220 PTAC														SUIT 220 PTAC		40					
	41	SUIT 220 PTAC														SUIT 220 PTAC		42					
TOTALS (KW)				0.0L	0.0C	0.00	24.00	1.00		PH		0.0D	24.0D	0.0L	0.0C	0.0L	TOTALS (KW)						
LOAD SUMMARY																							
				KW/C		DF		KW/D															
LTS				0.0		1.25		C		C													
KWD				0.0		KWD		C		C													
FREQ				0.0		HWS		C		C													
HWS				40.3		1.00		40.3															
HWS				0.0		1.00		C		C													
TOTAL				40.3				49.6KW															
AMP				73.1		A		137.7A															



FIRST FLOOR LIGHTING PLAN
SCALE: 1/8" = 1'-0"

CODED NOTES

- 1 LOCATION OF LIGHTING CONTROL PANEL "LCP-1" FOR CONTROLLING 1F PUBLIC LIGHTING. REFER TO DETAIL ON DRAWING #E0.4.
- 2 ALL LIGHT FIXTURES ON THIS BRANCH CIRCUIT SHALL BE ROUTED THROUGH THE LIGHTING CONTROL PANEL "LCP-1", TO ZONES/RELAYS INDICATED ADJACENT TO RESPECTIVE FIXTURE. REFER TO DETAIL ON DRAWING #E0.4.

GENERAL LIGHTING PLAN NOTES

- ALL EXIT SIGNS AND NIGHT LIGHTS (DENOTED "NL") SHALL BE CONNECTED TO THE LOCAL LIGHTING CIRCUIT AHEAD OF ANY/POWER PACK CONTROLS SUCH AS: SWITCHES (DEVICE), OCCUPANCY SENSORS AND/OR RELAY CONTROLS.
- EXACT LOCATION OF ALL LUMINAIRES, AND EXACT MOUNTING HEIGHT OF ALL PENDANT MOUNTED LUMINAIRES SHALL BE COORDINATED WITH ARCHITECTURAL DRAWINGS PRIOR TO ANY ROUGH-INS.
- REFER TO BRANCH CIRCUIT WIRING SCHEDULE ON #E0.2 FOR LIGHTING BRANCH CIRCUIT SIZING. ALL HOTEL CORRIDOR LIGHTING SHALL BE A MINIMUM OF #8.
- ALL WIRING SHALL BE IDENTIFIED BY PANELBOARD AND CIRCUIT NUMBER(S) IN ALL CABINETS, JUNCTION BOXES, WIRING TROUGH, ENCLOSURES, SPLICE OR TERMINATION POINTS, ETC.
- A NEW TYPED PANELBOARD DIRECTORY CARD SHALL BE PROVIDED FOR ALL PANELS INSTALLED OR MODIFIED UNDER THIS CONTRACT. NEW DIRECTORY CARDS SHALL BE LOCATED ON THE INSIDE DOOR OF ASSOCIATED PANELS.



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FIRST FLOOR LIGHTING PLAN

ISSUE / REVISION DATE:	
05/04/2022	OWNER REVIEW
06/23/2022	OWNER REVIEW
08/04/2022	PRELIMINARY REVIEW
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01/26/2024	FOR CONSTRUCTION

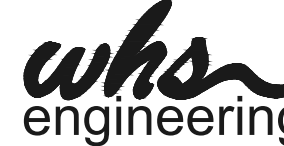
SMR Project No. **AWSFIN**

E1.1



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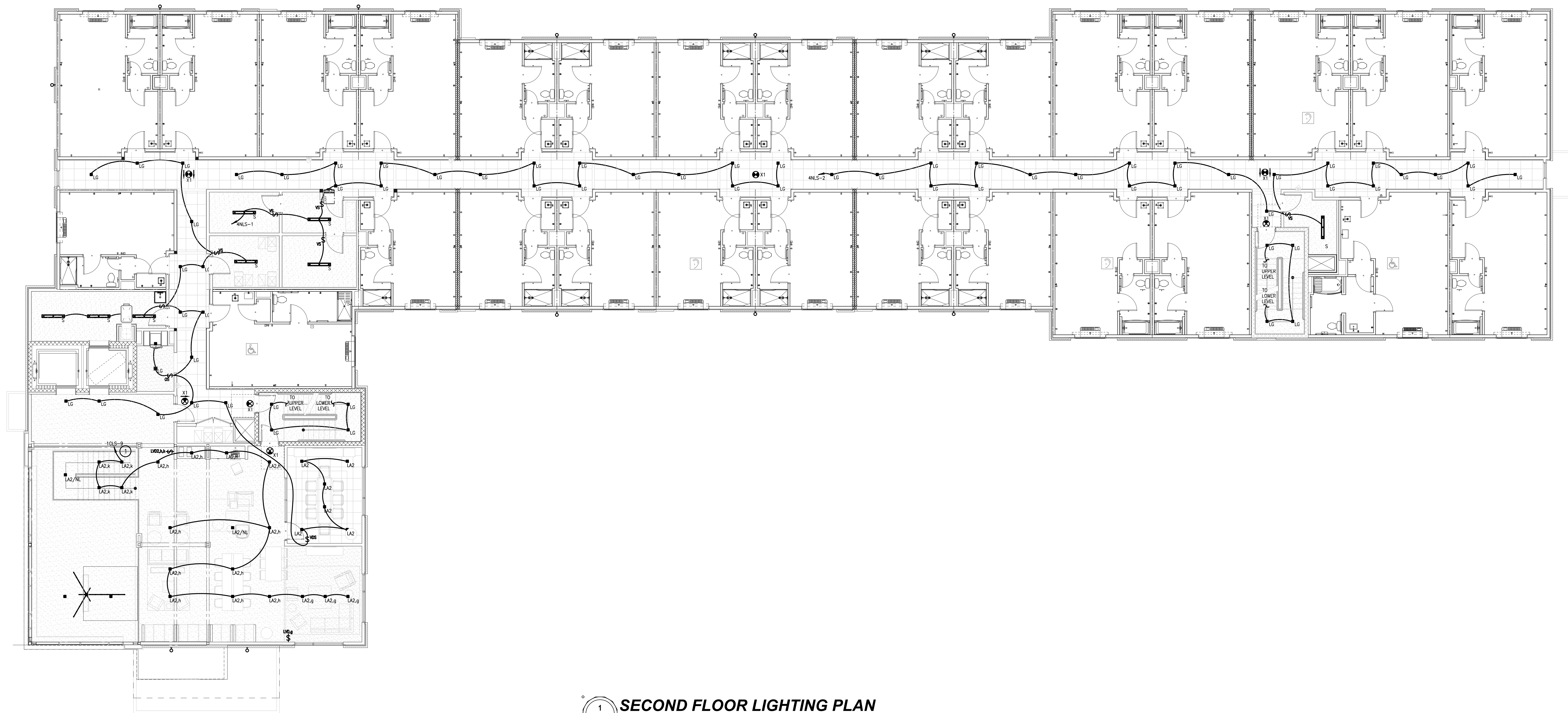
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HAMILTON COUNTY
SECOND FLOOR LIGHTING PLAN

ISSUE / REVISION DATE:	
05/04/2022	OWNER REVIEW
06/23/2022	OWNER REVIEW
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11/17/2023	SAXONY DESIGN REVIEW 2
● 01/26/2024	FOR CONSTRUCTION

SMR Project No. **AWSFIN**

E1.2



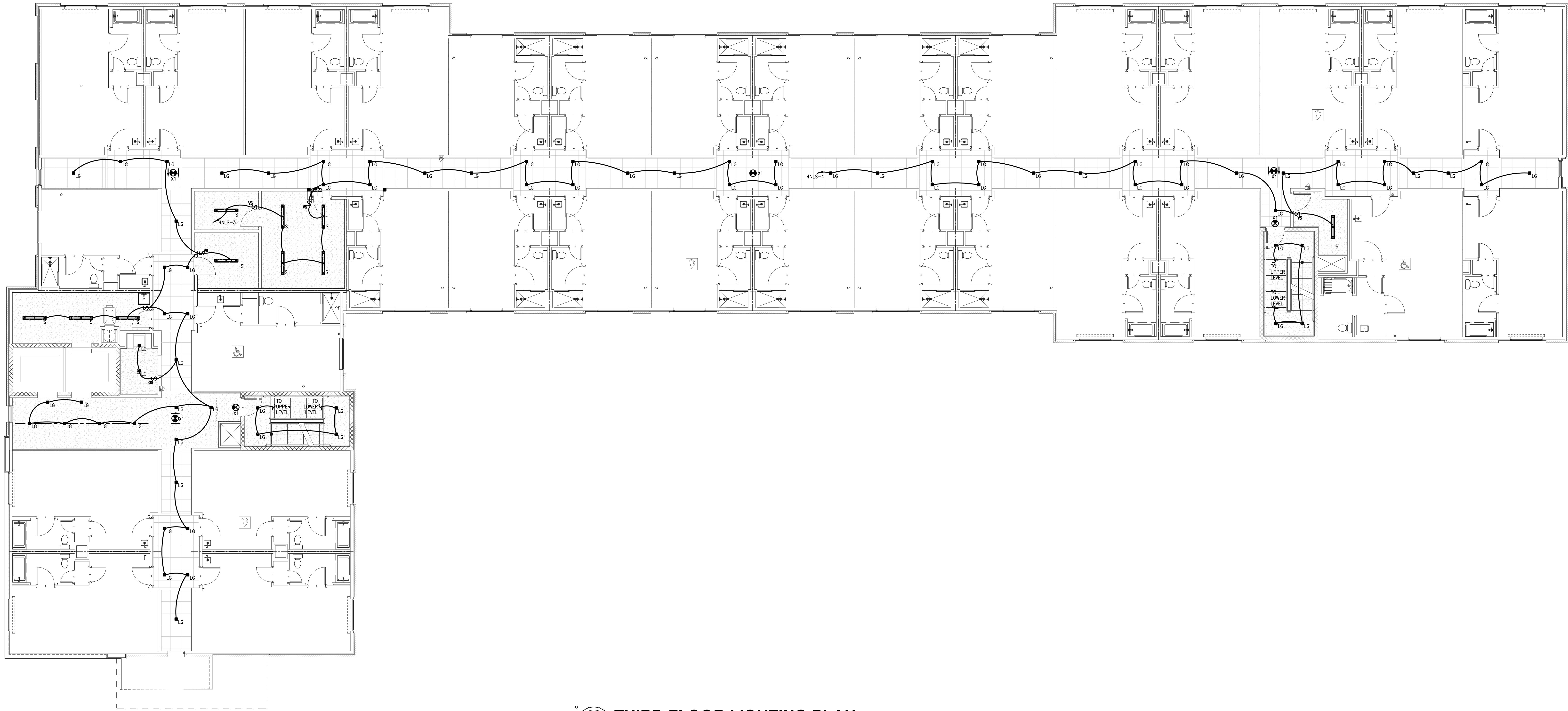
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E1.2
SECOND FLOOR LIGHTING PLAN
SCALE: 1/8" = 1'-0"

CODED NOTES

- ① ALL LIGHT FIXTURES ON THIS BRANCH CIRCUIT SHALL BE ROUTED THROUGH THE LIGHTING CONTROL PANEL "LCP-1", TO ZONES/RELAYS INDICATED ADJACENT TO RESPECTIVE FIXTURE. REFER TO DETAIL ON DRAWING #E0.4.

GENERAL LIGHTING PLAN NOTES

- ALL EXIT SIGNS AND NIGHT LIGHTS (DENOTED "NL") SHALL BE CONNECTED TO THE LOCAL LIGHTING CIRCUIT AHEAD OF ANY/POWER PACK CONTROLS SUCH AS: SWITCHES (DEVICE), OCCUPANCY SENSORS AND/OR RELAY CONTROLS.
- EXACT LOCATION OF ALL LUMINAIRES, AND EXACT MOUNTING HEIGHT OF ALL PENDANT MOUNTED LUMINAIRES SHALL BE COORDINATED WITH ARCHITECTURAL DRAWINGS PRIOR TO ANY ROUGH-INS.
- REFER TO BRANCH CIRCUIT WIRING SCHEDULE ON #E0.2 FOR LIGHTING BRANCH CIRCUIT SIZING. ALL HOTEL CORRIDOR LIGHTING SHALL BE A MINIMUM OF #8.
- ALL WIRING SHALL BE IDENTIFIED BY PANELBOARD AND CIRCUIT NUMBER(S) IN ALL CABINETS, JUNCTION BOXES, WIRING TROUGHS, ENCLOSURES, SPLICE OR TERMINATION POINTS, ETC.
- A NEW TYPED PANELBOARD DIRECTORY CARD SHALL BE PROVIDED FOR ALL PANELS INSTALLED OR MODIFIED UNDER THIS CONTRACT. NEW DIRECTORY CARDS SHALL BE LOCATED ON THE INSIDE DOOR OF ASSOCIATED PANELS.



THIRD FLOOR LIGHTING PLAN
SCALE: 1/8" = 1'-0"

GENERAL LIGHTING PLAN NOTES

- ALL EXIT SIGNS AND NIGHT LIGHTS (DENOTED "NL") SHALL BE CONNECTED TO THE LOCAL LIGHTING CIRCUIT AHEAD OF ANY/POWER PACK CONTROLS SUCH AS: SWITCHES (DEVICE), OCCUPANCY SENSORS AND/OR RELAY CONTROLS.
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1-26-24

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HAMILTON COUNTY

THIRD FLOOR LIGHTING PLAN

ISSUE / REVISION DATE:

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08/19/2023 HIG FINAL REVIEW

11/17/2023 SAXONY DESIGN REVIEW 2

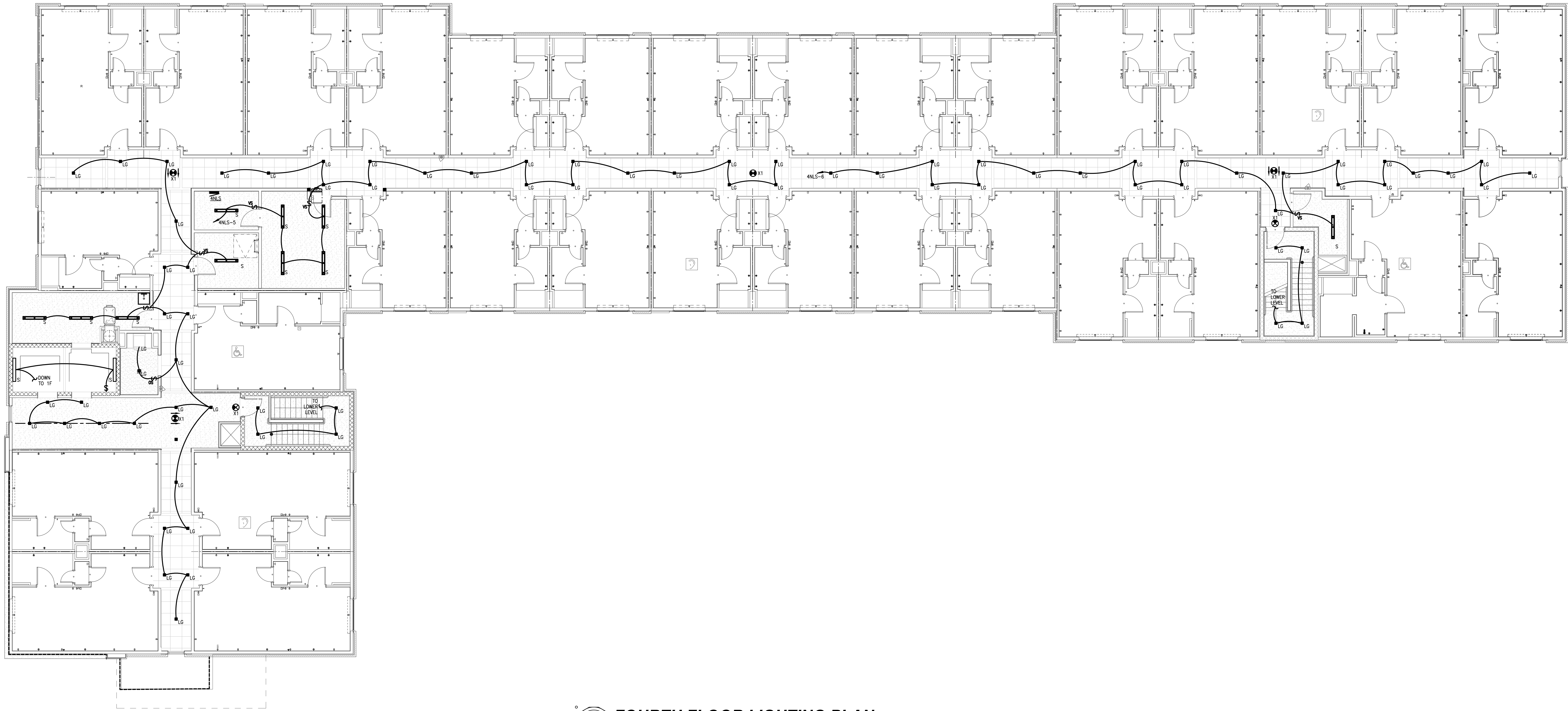
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AWSFIN

E1.3

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FOURTH FLOOR LIGHTING PLAN
SCALE: 1/8" = 1'-0"

GENERAL LIGHTING PLAN NOTES

- ALL EXIT SIGNS AND NIGHT LIGHTS (DENOTED "NL") SHALL BE CONNECTED TO THE LOCAL LIGHTING CIRCUIT AHEAD OF ANY/POWER PACK CONTROLS SUCH AS: SWITCHES (DEVICE), OCCUPANCY SENSORS AND/OR RELAY CONTROLS.
- EXACT LOCATION OF ALL LUMINAIRES, AND EXACT MOUNTING HEIGHT OF ALL PENDANT MOUNTED LUMINAIRES SHALL BE COORDINATED WITH ARCHITECTURAL DRAWINGS PRIOR TO ANY ROUGH-INS.
- REFER TO BRANCH CIRCUIT WIRING SCHEDULE ON #E0.2 FOR LIGHTING BRANCH CIRCUIT SIZING. ALL HOTEL CORRIDOR LIGHTING SHALL BE A MINIMUM OF #8.
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- A NEW TYPED PANELBOARD DIRECTORY CARD SHALL BE PROVIDED FOR ALL PANELS INSTALLED OR MODIFIED UNDER THIS CONTRACT. NEW DIRECTORY CARDS SHALL BE LOCATED ON THE INSIDE DOOR OF ASSOCIATED PANELS.

1-26-24

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HAMILTON COUNTY

FOURTH FLOOR LIGHTING PLAN

ISSUE / REVISION DATE:

05/04/2022 OWNER REVIEW

06/23/2022 OWNER REVIEW

08/04/2022 PRELIMINARY REVIEW

01/13/2023 FRANCHISE REVIEW

04/21/2023 FRANCHISE REVIEW

05/17/2023 SAXONY DESIGN REVIEW 1

08/19/2023 IHS FINAL REVIEW

11/17/2023 SAXONY DESIGN REVIEW 2

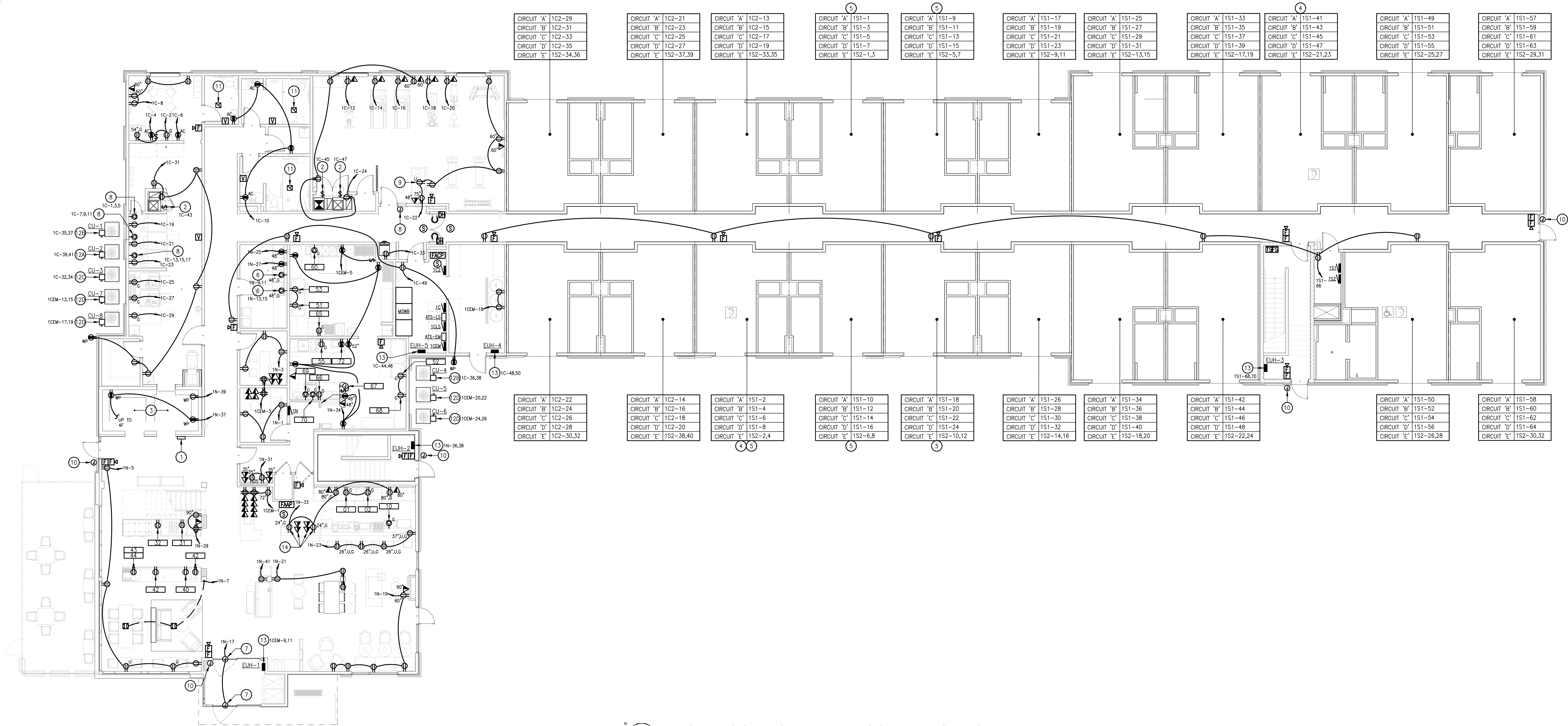
01/26/2024 FOR CONSTRUCTION

SMR Project No.

AWSFIN

E1.4

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1 FIRST FLOOR POWER AND COMMUNICATION PLAN

CODED NOTES

- LOCATION OF AREA OF RESCUE COMMUNICATION BASE STATION. REFER TO DIAGRAM ON DRAWING #E0.3.
- FURNACE (1.212KW-120V-1Ø):** PROVIDE A MANUAL MOTOR STARTER MOUNTED ON FURNACE FOR DISCONNECT. WIRING SHALL BE 2#12, 1#12(G), 3/4" C. TO THE 15A-1P CIRCUIT BREAKER SHOWN ON PLAN.
- REFER TO ELEVATOR GENERAL INSTALLATION NOTES ON DRAWING #E0.3 FOR ALL ELEVATOR PIT ELECTRICAL REQUIREMENTS.
- THIS GUEST SUITE IS HEARING-IMPAIRED TYPE. INSTALL ALL HEARING-IMPAIRED RELATED DEVICES SHOWN ON ENLARGED UNIT PLANS ON #E3 SERIES OF DRAWINGS AT THESE ROOMS.
- ALL WIRING FOR BRANCH CIRCUITING SERVING THIS GUEST SUITE SHALL BE 2#10, 1#10(G), 3/4" C. TO ACCOMMODATE VOLTAGE DROP.
- GUEST ELECTRIC DRYER (5.000KW-120/208V-1Ø):** PROVIDE A NEMA 14-30R RECEPTACLE MOUNTED AT 48" A.F.F. FOR SERVICE TO DRYER. WIRING SHALL BE 3#10, 1#10(G), 3/4" C. TO THE 30A-2P GFCI TYPE CIRCUIT BREAKER SHOWN ON PLAN.
- PROVIDE ALL WIRING, COMPONENTS, ETC. INCLUDING BUT NOT LIMITED TO ALL PUSH PADDLES (WALL AND REMOTE PEDESTAL), LIMIT SWITCHES, ETC. FOR A COMPLETE INSTALLATION OF ADA DOOR OPERATOR. REFER TO ARCHITECTURAL DRAWINGS FOR PUSH PADDLE LOCATIONS. CONNECT TO 20A-1P CIRCUIT BREAKER INDICATED ON DRAWING.
- INDUSTRIAL GAS DRYER (1.201KW-208V-3Ø):** PROVIDE A NEMA 1, 240V, 30A-3P UNFUSED DISCONNECT SWITCH AND MOUNT AS SHOWN. WIRING SHALL BE 2#12, 1#12(G), 3/4" C. TO THE 15A-3P CIRCUIT BREAKER SHOWN ON PLAN. BRANCH TO FINAL CONNECTION VIA FLEXIBLE METALLIC CONDUIT.
- COORDINATE MOUNTING OF DEVICE(S) IN MILLWORK WITH ARCHITECTURAL AND MILLWORK DRAWINGS.
- PROVIDE A JUNCTION BOX AND 3/4" TO ACCESSIBLE CEILING SPACE FOR KEY CARD READER. COORDINATE ALL WORK WITH OWNER'S IT/SECURITY VENDOR PRIOR TO ROUGH IN. PROVIDE 120V POWER FROM NEAREST GENERAL RECEPTABLES CIRCUIT IF REQUIRED.
- LOCATION OF EXHAUST FAN. CONNECT TO INTEGRAL DISCONNECT ON FAN AND CONNECT TO NEAREST LIGHTING CIRCUIT. FAN TO BE CONTROLLED VIA OCCUPANCY SWITCHING CONTROLLING ROOM LIGHTING. REFER TO MECHANICAL DRAWINGS FOR ADDITIONAL INFORMATION.
- 2-TON CONDENSING UNIT (3.120KW-208V-1Ø):** PROVIDE A NEMA 3R, 240V, 30A-2P UNFUSED DISCONNECT SWITCH AND MOUNT AT UNIT. WIRING SHALL BE 2#12, 1#12(G), 1" C. TO THE 20A-2P CIRCUIT BREAKER SHOWN ON PLAN. BRANCH TO FINAL CONNECTION VIA FLEXIBLE METALLIC CONDUIT.
- 3-TON CONDENSING UNIT (4.320KW-208V-1Ø):** PROVIDE A NEMA 3R, 240V, 30A-2P UNFUSED DISCONNECT SWITCH AND MOUNT AT UNIT. WIRING SHALL BE 2#10, 1#10(G), 1" C. TO THE 30A-2P CIRCUIT BREAKER SHOWN ON PLAN. BRANCH TO FINAL CONNECTION VIA FLEXIBLE METALLIC CONDUIT.
- 4-TON CONDENSING UNIT (6.080KW-208V-1Ø):** PROVIDE A NEMA 3R, 240V, 60A-2P UNFUSED DISCONNECT SWITCH AND MOUNT AT UNIT. WIRING SHALL BE 2#8, 1#10(G), 1" C. TO THE 40A-2P CIRCUIT BREAKER SHOWN ON PLAN. BRANCH TO FINAL CONNECTION VIA FLEXIBLE METALLIC CONDUIT.
- 5-TON CONDENSING UNIT (7.428KW-208V-1Ø):** PROVIDE A NEMA 3R, 240V, 60A-2P UNFUSED DISCONNECT SWITCH AND MOUNT AT UNIT. WIRING SHALL BE 2#6, 1#10(G), 1" C. TO THE 50A-2P CIRCUIT BREAKER SHOWN ON PLAN. BRANCH TO FINAL CONNECTION VIA FLEXIBLE METALLIC CONDUIT.
- UNIT HEATER (3.000KW-208V-1Ø):** PROVIDE A DIRECT CONNECTION TO HEATER. WIRING SHALL BE 2#12, 1#12(G), 3/4" C. TO THE 20A-2P CIRCUIT BREAKER SHOWN ON PLAN.
- SURFACE MOUNT THESE DEVICES ON FACE OF MILLWORK. COORDINATE WORK WITH MILLWORK DRAWINGS AND G.C.

FOOD SERVICE EQUIPMENT ELECTRICAL CONNECTION SCHEDULE

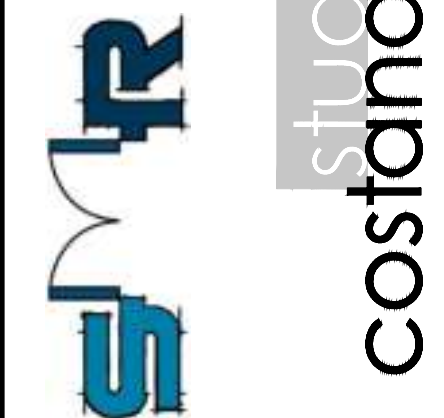
#	EQUIPMENT DESCRIPTION	VOLTAGE/ PHASE	KW	HP	CONNECTION TYPE			WIRE/CONDUIT SIZE	PANEL	CIRCUIT #	CB/FUSE SIZE	NOTES
					NEMA TYPE	DISCONNECT/SWITCH	HEIGHT					
01	3-DOOR REFRIGERATOR	120V-1Ø	0.756	-	5-20R	-	24"	2#12, 1#12(G), 3/4" C.	1CEM	2	20A-1P	1
02	SINGLE DOOR REFRIGERATOR	120V-1Ø	0.192	-	5-20R	-	24"					
10	WAREWASHER	208V-1Ø	8.640	-	6-50R	-	NOTE 2	2#6, 1#10(G), 1" C.	1N	2,4	45A-2P	1,2
31	VERTICAL OPEN DISPLAY CASE	120V-1Ø	1.860	-	5-20R	-	NOTE 2	2#12, 1#12(G), 3/4" C.	1CEM	10	20A-1P	1,2,4
32	FREEZER MERCHANDISER	120V-1Ø	0.276	-	5-15R	-	NOTE 2	2#12, 1#12(G), 3/4" C.	1CEM	12	15A-1P	1,2
40	HOT WATER DISPENSER	120V-1Ø	1.344	-	5-20R	-	NOTE 2	2#12, 1#12(G), 3/4" C.	1N	10	20A-1P	1,2
42	SINGLE CUP ESPRESSO MACH.	120V-1Ø	1.320	-	5-20R	-	NOTE 2	2#12, 1#12(G), 3/4" C.	1N	12	20A-1P	1,2
43	SINGLE CUP ESPRESSO MACH.	120V-1Ø	1.320	-	5-20R	-	NOTE 2	2#12, 1#12(G), 3/4" C.	1N	14	20A-1P	1,2
44	WATER DISPENSER	120V-1Ø	0.624	-	5-20R	-	NOTE 2					
44	COUNTER ELEC. DISPENSER	120V-1Ø	0.840	-	5-20R	-	NOTE 2	2#12, 1#12(G), 3/4" C.	1N	16	20A-1P	1,2
51	REACH IN FREEZER	120V-1Ø	0.756	-	5-20R	-	60"	2#12, 1#12(G), 3/4" C.	1CEM	6	20A-1P	1
52	REACH IN REFRIGERATOR	120V-1Ø	0.336	-	5-20R	-	60"	2#12, 1#12(G), 3/4" C.	1CEM	4	20A-1P	1
53	REACH IN REFRIGERATOR	120V-1Ø	0.300	-	5-20R	-	60"	2#12, 1#12(G), 3/4" C.	1CEM	6	20A-1P	1
55	WORKTOP SOLID DOOR FREEZER	120V-1Ø	0.588	-	5-15R	-	24"	2#12, 1#12(G), 3/4" C.	1CEM	8	20A-1P	1
60	WAREWASHER	208V-1Ø	8.640	-	6-50R	-	24"	2#6, 1#10(G), 1" C.	1N	6,8	45A-2P	1
65	ICE MAKER	120V-1Ø	1.428	-	5-20R	-	24"	2#10, 1#10(G), 3/4" C.	1CEM	14	20A-1P	1,4
66	PIZZA OVEN	120V-1Ø	0.588	-	5-20R	-	24"	2#12, 1#12(G), 3/4" C.	1N	18	15A-1P	1
67	INFRARED HEAT STRIP	208V-1Ø	0.500	-	-	DIRECT	NOTE 3	2#12, 1#12(G), 3/4" C.	1N	20,22	15A-2P	1,3
68	REACH IN FREEZER	120V-1Ø	0.528	-	5-20R	-	60"	2#12, 1#12(G), 3/4" C.	1CEM	4	20A-1P	1
69	RETHERM OVEN	208V-1Ø	6.240	-	6-30R	-	24"	2#8, 1#10(G), 1" C.	1N	24,26	30A-2P	1,4
70	HIGH SPEED OVEN	208V-1Ø	6.240	-	6-30R	-	48"	2#8, 1#10(G), 1" C.	1N	28,30	30A-2P	1,4
72	MICROWAVE OVEN	120V-1Ø	1.800	-	5-20R	-	54"	2#10, 1#10(G), 3/4" C.	1N	32	20A-1P	1,4

FOOD SERVICE EQUIPMENT ELECTRICAL CONNECTION SCHEDULE NOTES:

- THE ELECTRICAL CONTRACTOR SHALL COORDINATE AND CONFIRM ALL ELECTRICAL SPECIFICATIONS, CONNECTIONS, ROUGH-IN REQUIREMENTS, CORD TYPES/LENGTHS, MOUNTING HEIGHTS, ETC. WITH THE FOOD SERVICE EQUIPMENT CONTRACTOR (F.S.E.C.) PRIOR TO PLACING PURCHASE ORDER FOR ANY DEVICES, DISTRIBUTION EQUIPMENT AND ROUGH-IN. REFER TO FOOD SERVICE DRAWINGS FOR ADDITIONAL REQUIREMENTS.
- COORDINATE MOUNTING OF ALL DEVICES IN MILLWORK IN FIELD WITH G.C. ROUTE TO NEAREST WALL/COLUMN.
- COORDINATE MOUNTING HEIGHT OF DIRECT CONNECTION FOR HEAT STRIP WITH OWNER/G.C./FSEQ. PROVIDE A TWO-POLE SWITCH FOR DISCONNECT AT 48" AT LOCATION DIRECTED BY OWNER AND LABEL ACCORDINGLY.
- BRANCH CIRCUITING SIZED TO ACCOMMODATE VOLTAGE DROP.



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FIRST FLOOR POWER AND COMMUNICATION PLAN

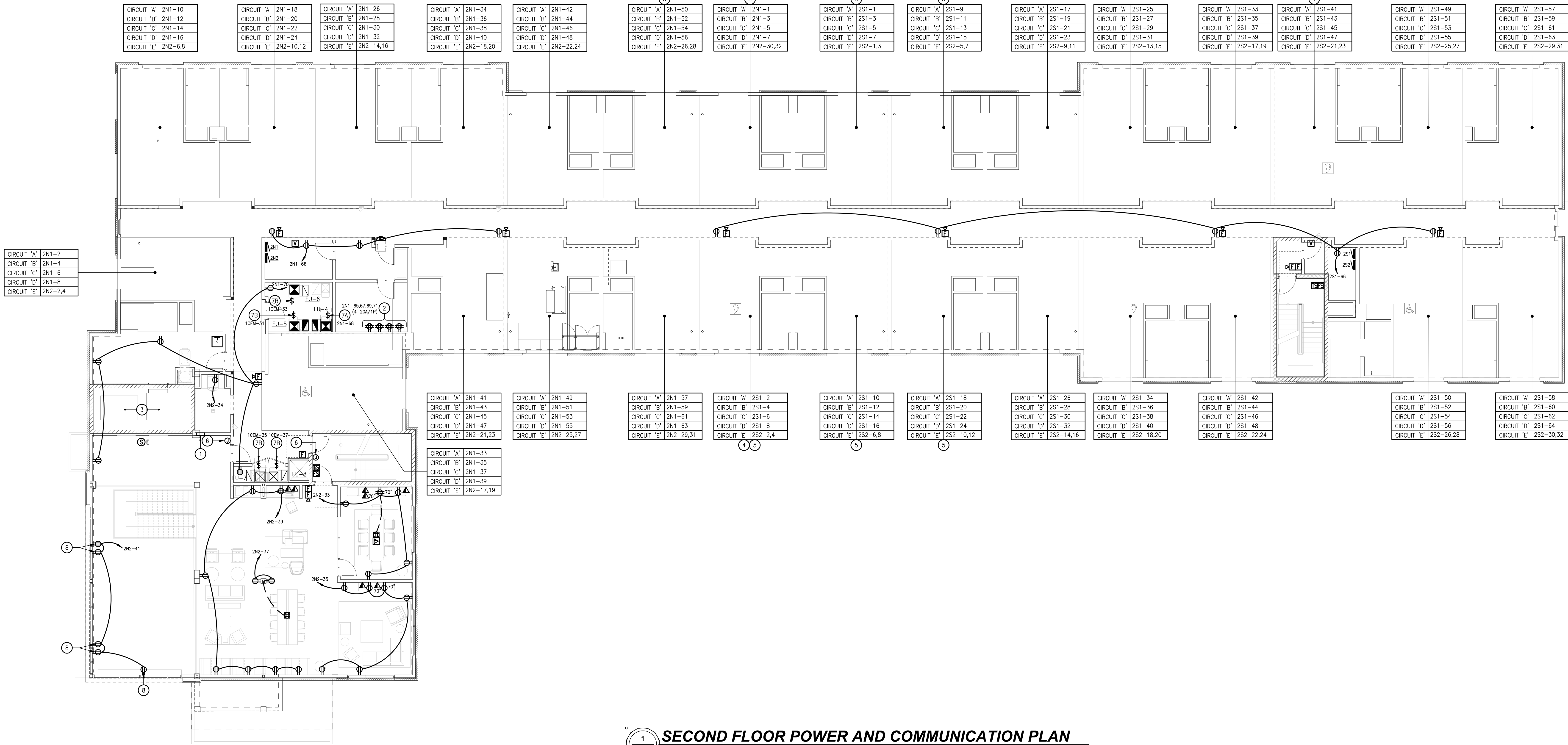
GENERAL POWER PLAN NOTES

- EXACT LOCATION OF MECHANICAL, PLUMBING, KITCHEN, FURNITURE SYSTEMS, OWNER FURNISHED EQUIPMENT, ETC. THAT REQUIRE ELECTRICAL CONNECTIONS ARE SHOWN ON THE MECHANICAL, PLUMBING, AND/OR ARCHITECTURAL DRAWINGS. COORDINATE EXACT LOCATIONS WITH RESPECTIVE CONTRACTORS AND/OR VENDORS PRIOR TO ANY ROUGH-INS.
- PRIOR TO ROUGH-IN, REVIEW AND COORDINATE WITH ALL OTHER TRADES' CONTRACT DOCUMENTS TO DETERMINE SPECIFIC MOUNTING LOCATIONS AND ELECTRICAL REQUIREMENTS (VOLTAGE, PHASE, KW, HP, CONNECTION TYPE, ETC.) FOR HVAC AND PLUMBING EQUIPMENT. COORDINATE EXACT MOUNTING LOCATIONS WITH THE SPECIFIC TRADE AND ARCHITECT.
- REFER TO BRANCH CIRCUIT WIRING SCHEDULE ON #E0.2 FOR LIGHTING BRANCH CIRCUIT SIZING.
- ALL WIRING SHALL BE IDENTIFIED BY PANELBOARD AND CIRCUIT NUMBER(S) IN ALL CABINETS, JUNCTION BOXES, WIRING TROUGHS, ENCLOSURES, SPLICE OR TERMINATION POINTS, ETC.
- A NEW TYPED PANELBOARD DIRECTORY CARD SHALL BE PROVIDED FOR ALL PANELS INSTALLED OR MODIFIED UNDER THIS CONTRACT. NEW DIRECTORY CARDS SHALL BE LOCATED ON THE INSIDE DOOR OF ASSOCIATED PANELS.

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11/17/2023	SAXONY DESIGN REVIEW 2
01/26/2024	FOR CONSTRUCTION

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E2.1



SECOND FLOOR POWER AND COMMUNICATION PLAN

CODED NOTES

- LOCATION OF AREA OF RESCUE COMMUNICATION CALL BOX. REFER TO DIAGRAM ON DRAWING #E0.3.
- COORDINATE EXACT LOCATION OF FOUR DOUBLE DUPLEX RECEPTACLES (WITH FOUR 120V-1Ø-20A DEDICATED BRANCH CIRCUITS) FOR IT EQUIPMENT WITH OWNER AND G.C.
- REFER TO ELEVATOR GENERAL INSTALLATION NOTES ON DRAWING #E0.3 FOR ALL ELEVATOR PIT ELECTRICAL REQUIREMENTS.
- THIS GUEST SUITE IS HEARING-IMPAIRED TYPE. INSTALL ALL HEARING-IMPAIRED RELATED DEVICES SHOWN ON ENLARGED UNIT PLANS ON #E3 SERIES OF DRAWINGS AT THESE ROOMS.
- ALL WIRING FOR BRANCH CIRCUITING SERVING THIS GUEST SUITE SHALL BE 2#10, 1#10(G), 3/4" C. TO ACCOMMODATE VOLTAGE DROP.
- PROVIDE A JUNCTION BOX AND 3/4" ACCESSIBLE CEILING SPACE FOR KEY CARD READER. COORDINATE ALL WORK WITH OWNER'S IT/SECURITY VENDOR PRIOR TO ROUGH IN. PROVIDE 120V POWER FROM NEAREST GENERAL RECEPTACLES CIRCUIT IF REQUIRED.
- FURNACE (1.212KW-120V-1Ø):** PROVIDE A MANUAL MOTOR STARTER MOUNTED ON FURNACE FOR DISCONNECT. WIRING SHALL BE 2#12, 1#12(G), 3/4" C. TO THE 15A-1P CIRCUIT BREAKER SHOWN ON PLAN.
- FURNACE (1.538KW-120V-1Ø):** PROVIDE A MANUAL MOTOR STARTER MOUNTED ON FURNACE FOR DISCONNECT. WIRING SHALL BE 2#12, 1#12(G), 3/4" C. TO THE 15A-1P CIRCUIT BREAKER SHOWN ON PLAN.
- COORDINATE FINAL MOUNTING HEIGHT AND LOCATIONS FOR CONTROLLABLE ROLLER SHADES WITH G.C. AND OWNER IN FIELD. VERIFY INTENDED CONTROL MEANS WITH OWNER AND PROVIDE AN EMPTY 3/4" C. WITH PULLWIRE TO EACH RECEPTACLE LOCATION SHOULD WIRED CONTROLS BE NEEDED.

GENERAL POWER PLAN NOTES

- EXACT LOCATION OF MECHANICAL, PLUMBING, KITCHEN, FURNITURE SYSTEMS, OWNER FURNISHED EQUIPMENT, ETC. THAT REQUIRE ELECTRICAL CONNECTIONS ARE SHOWN ON THE MECHANICAL, PLUMBING, AND/OR ARCHITECTURAL DRAWINGS. COORDINATE EXACT LOCATIONS WITH RESPECTIVE CONTRACTORS AND/OR VENDORS PRIOR TO ANY ROUGH-INS.
- PRIOR TO ROUGH-IN, REVIEW AND COORDINATE WITH ALL OTHER TRADES' CONTRACT DOCUMENTS TO DETERMINE SPECIFIC MOUNTING LOCATIONS AND ELECTRICAL REQUIREMENTS (VOLTAGE, PHASE, KW, HP, CONNECTION TYPE, ETC.) FOR HVAC AND PLUMBING EQUIPMENT. COORDINATE EXACT MOUNTING LOCATIONS WITH THE SPECIFIC TRADE AND ARCHITECT.
- REFER TO BRANCH CIRCUIT WIRING SCHEDULE ON #E0.2 FOR LIGHTING BRANCH CIRCUIT SIZING.
- ALL WIRING SHALL BE IDENTIFIED BY PANELBOARD AND CIRCUIT NUMBER(S) IN ALL CABINETS, JUNCTION BOXES, WIRING TROUGHS, ENCLOSURES, SPLICE OR TERMINATION POINTS, ETC.
- A NEW TYPED PANELBOARD DIRECTORY CARD SHALL BE PROVIDED FOR ALL PANELS INSTALLED OR MODIFIED UNDER THIS CONTRACT. NEW DIRECTORY CARDS SHALL BE LOCATED ON THE INSIDE DOOR OF ASSOCIATED PANELS.



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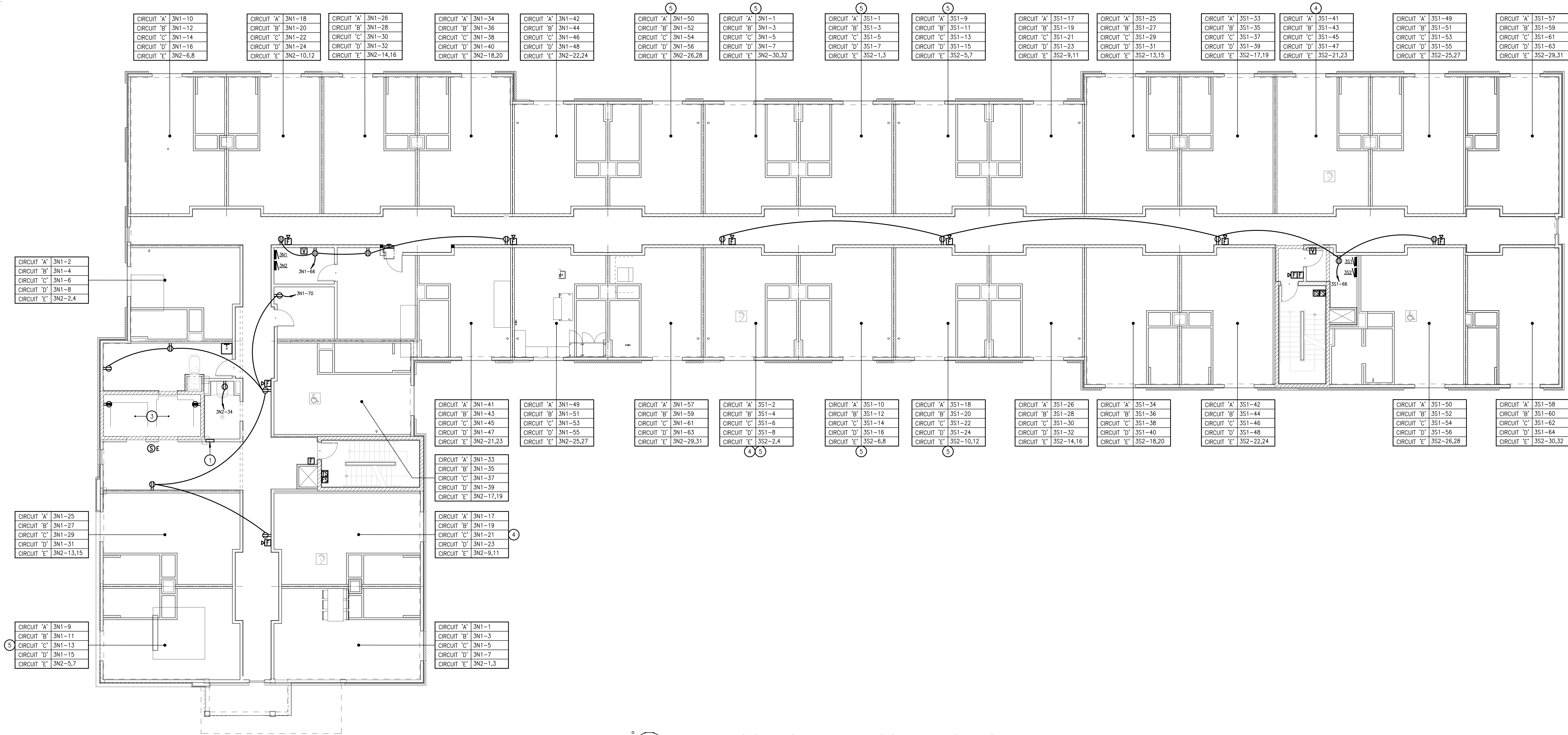
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SECOND FLOOR POWER AND COMMUNICATION PLAN

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E2.2



THIRD FLOOR POWER AND COMMUNICATION PLAN
SCALE: 1/8" = 1'-0"

CODED NOTES

- 1 LOCATION OF AREA OF RESCUE COMMUNICATION CALL BOX. REFER TO DIAGRAM ON DRAWING #E0.3.
- 2 NOT USED.
- 3 REFER TO ELEVATOR GENERAL INSTALLATION NOTES ON DRAWING #E0.3 FOR ALL ELEVATOR PIT ELECTRICAL REQUIREMENTS.
- 4 THIS GUEST SUITE IS HEARING-IMPAIRED TYPE. INSTALL ALL HEARING-IMPAIRED RELATED DEVICES SHOWN ON ENLARGED UNIT PLANS ON #E3 SERIES OF DRAWINGS AT THESE ROOMS.
- 5 ALL WIRING FOR BRANCH CIRCUITING SERVING THIS GUEST SUITE SHALL BE 2#10, 1#10(G), 3/4" C. TO ACCOMMODATE VOLTAGE DROP.

GENERAL POWER PLAN NOTES

- EXACT LOCATION OF MECHANICAL, PLUMBING, KITCHEN, FURNITURE SYSTEMS, OWNER FURNISHED EQUIPMENT, ETC. THAT REQUIRE ELECTRICAL CONNECTIONS ARE SHOWN ON THE MECHANICAL, PLUMBING, AND/OR ARCHITECTURAL DRAWINGS. COORDINATE EXACT LOCATIONS WITH RESPECTIVE CONTRACTORS AND/OR VENDORS PRIOR TO ANY ROUGH-INS.
- PRIOR TO ROUGH-IN, REVIEW AND COORDINATE WITH ALL OTHER TRADES' CONTRACT DOCUMENTS TO DETERMINE SPECIFIC MOUNTING LOCATIONS AND ELECTRICAL REQUIREMENTS (VOLTAGE, PHASE, KW, HP, CONNECTION TYPE, ETC.) FOR HVAC AND PLUMBING EQUIPMENT. COORDINATE EXACT MOUNTING LOCATIONS WITH THE SPECIFIC TRADE AND ARCHITECT.
- REFER TO BRANCH CIRCUIT WIRING SCHEDULE ON #E0.2 FOR LIGHTING BRANCH CIRCUIT SIZING.
- ALL WIRING SHALL BE IDENTIFIED BY PANELBOARD AND CIRCUIT NUMBER(S) IN ALL CABINETS, JUNCTION BOXES, WIRING TROUGHS, ENCLOSURES, SPLICE OR TERMINATION POINTS, ETC.
- A NEW TYPED PANELBOARD DIRECTORY CARD SHALL BE PROVIDED FOR ALL PANELS INSTALLED OR MODIFIED UNDER THIS CONTRACT. NEW DIRECTORY CARDS SHALL BE LOCATED ON THE INSIDE DOOR OF ASSOCIATED PANELS.

1-26-24
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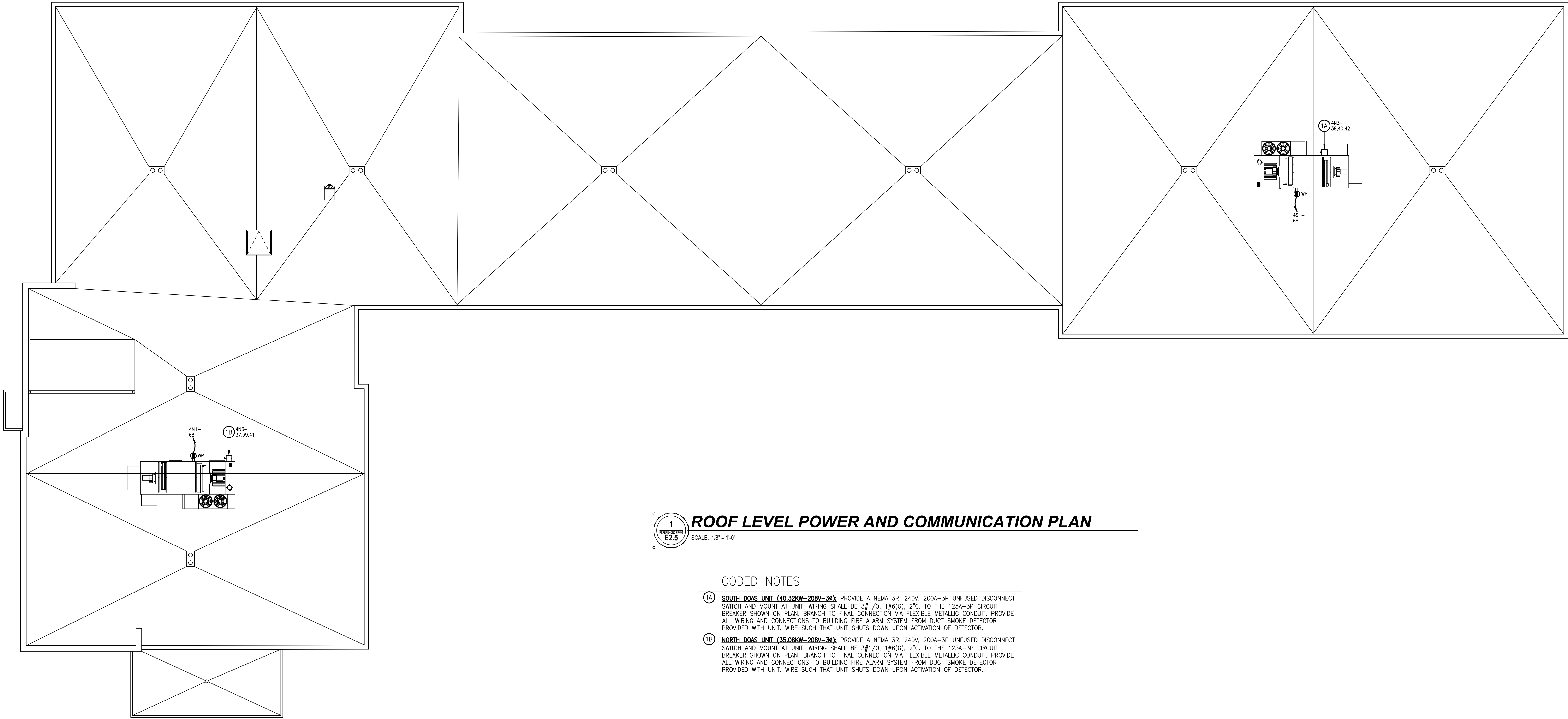
THIRD FLOOR POWER AND COMMUNICATION PLAN

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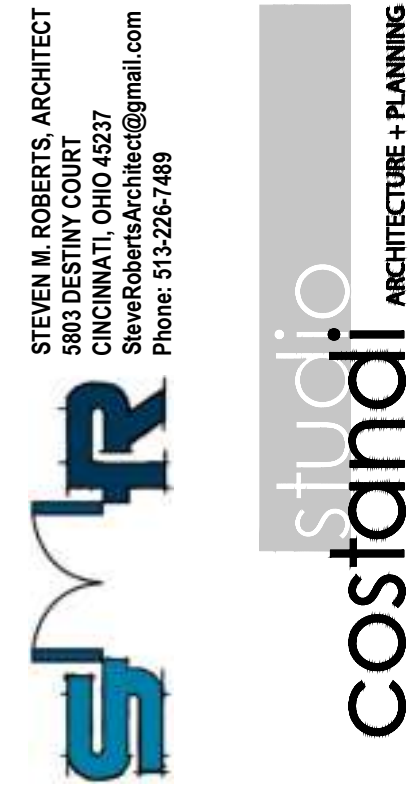
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E2.5
ROOF LEVEL POWER AND COMMUNICATION PLAN
SCALE: 1/8" = 1'-0"

CODED NOTES

- 1A SOUTH DOAS UNIT (40.32KW-200V-3P):** PROVIDE A NEMA 3R, 240V, 200A-3P UNFUSED DISCONNECT SWITCH AND MOUNT AT UNIT. WIRING SHALL BE 3/4"1/0, 1#6(G), 2"2". TO THE 125A-3P CIRCUIT BREAKER SHOWN ON PLAN. BRANCH TO FINAL CONNECTION VIA FLEXIBLE METALLIC CONDUIT. PROVIDE ALL WIRING AND CONNECTIONS TO BUILDING FIRE ALARM SYSTEM FROM DUCT SMOKE DETECTOR PROVIDED WITH UNIT. WIRE SUCH THAT UNIT SHUTS DOWN UPON ACTIVATION OF DETECTOR.
- 1B NORTH DOAS UNIT (35.08KW-200V-3P):** PROVIDE A NEMA 3R, 240V, 200A-3P UNFUSED DISCONNECT SWITCH AND MOUNT AT UNIT. WIRING SHALL BE 3/4"1/0, 1#6(G), 2"2". TO THE 125A-3P CIRCUIT BREAKER SHOWN ON PLAN. BRANCH TO FINAL CONNECTION VIA FLEXIBLE METALLIC CONDUIT. PROVIDE ALL WIRING AND CONNECTIONS TO BUILDING FIRE ALARM SYSTEM FROM DUCT SMOKE DETECTOR PROVIDED WITH UNIT. WIRE SUCH THAT UNIT SHUTS DOWN UPON ACTIVATION OF DETECTOR.

GENERAL POWER PLAN NOTES

- EXACT LOCATION OF MECHANICAL, PLUMBING, KITCHEN, FURNITURE SYSTEMS, OWNER FURNISHED EQUIPMENT, ETC. THAT REQUIRE ELECTRICAL CONNECTIONS ARE SHOWN ON THE MECHANICAL, PLUMBING, AND/OR ARCHITECTURAL DRAWINGS. COORDINATE EXACT LOCATIONS WITH RESPECTIVE CONTRACTORS AND/OR VENDORS PRIOR TO ANY ROUGH-INS.
- PRIOR TO ROUGH-IN, REVIEW AND COORDINATE WITH ALL OTHER TRADES' CONTRACT DOCUMENTS TO DETERMINE SPECIFIC MOUNTING LOCATIONS AND ELECTRICAL REQUIREMENTS (VOLTAGE, PHASE, KW, HP, CONNECTION TYPE, ETC.) FOR HVAC AND PLUMBING EQUIPMENT. COORDINATE EXACT MOUNTING LOCATIONS WITH THE SPECIFIC TRADE AND ARCHITECT.
- REFER TO BRANCH CIRCUIT WIRING SCHEDULE ON #E0.2 FOR LIGHTING BRANCH CIRCUIT SIZING.
- ALL WIRING SHALL BE IDENTIFIED BY PANELBOARD AND CIRCUIT NUMBER(S) IN ALL CABINETS, JUNCTION BOXES, WIRING TROUGHS, ENCLOSURES, SPLICE OR TERMINATION POINTS, ETC.
- A NEW TYPED PANELBOARD DIRECTORY CARD SHALL BE PROVIDED FOR ALL PANELS INSTALLED OR MODIFIED UNDER THIS CONTRACT. NEW DIRECTORY CARDS SHALL BE LOCATED ON THE INSIDE DOOR OF ASSOCIATED PANELS.

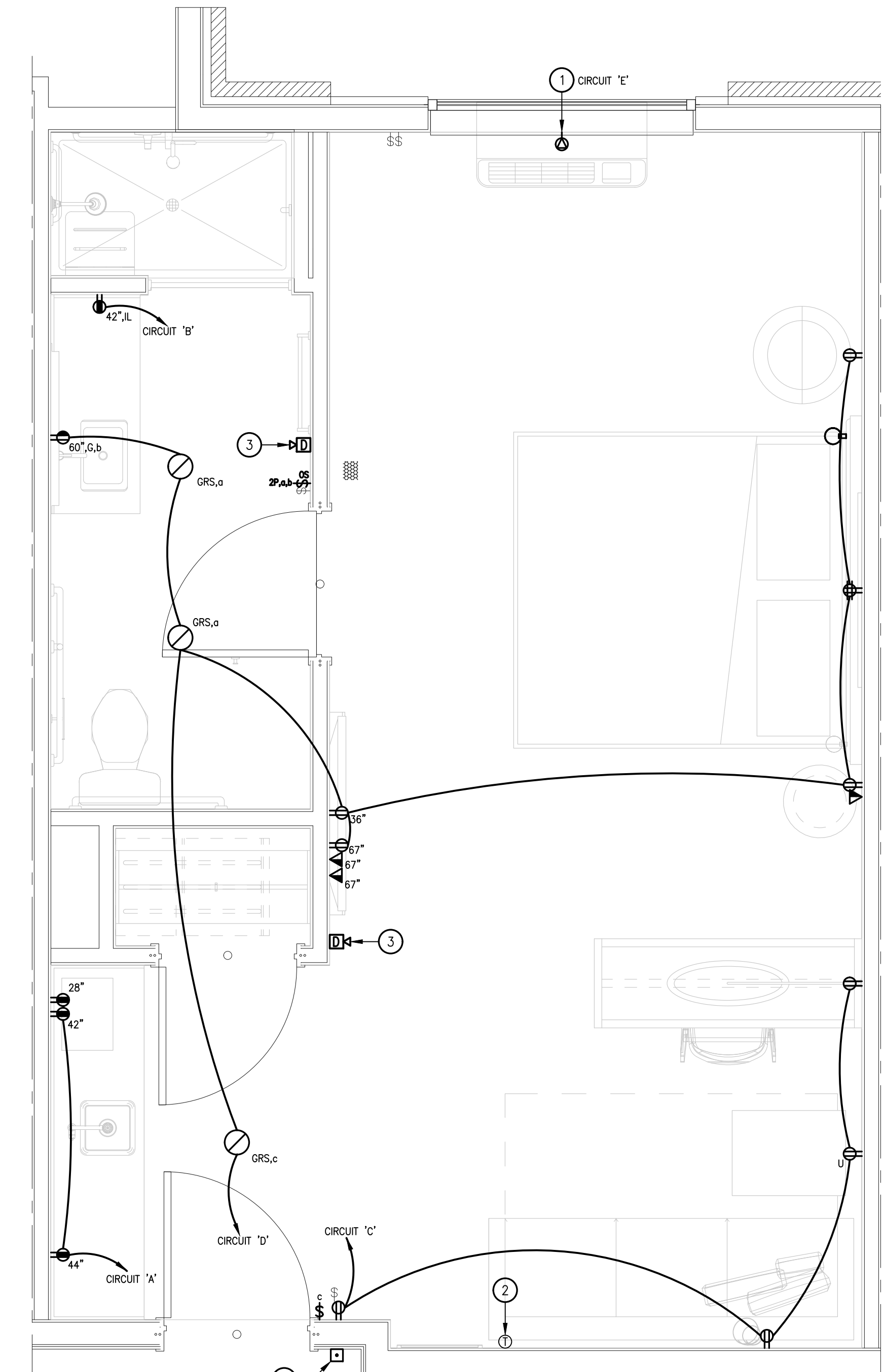


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ROOF LEVEL POWER AND COMMUNICATION PLAN

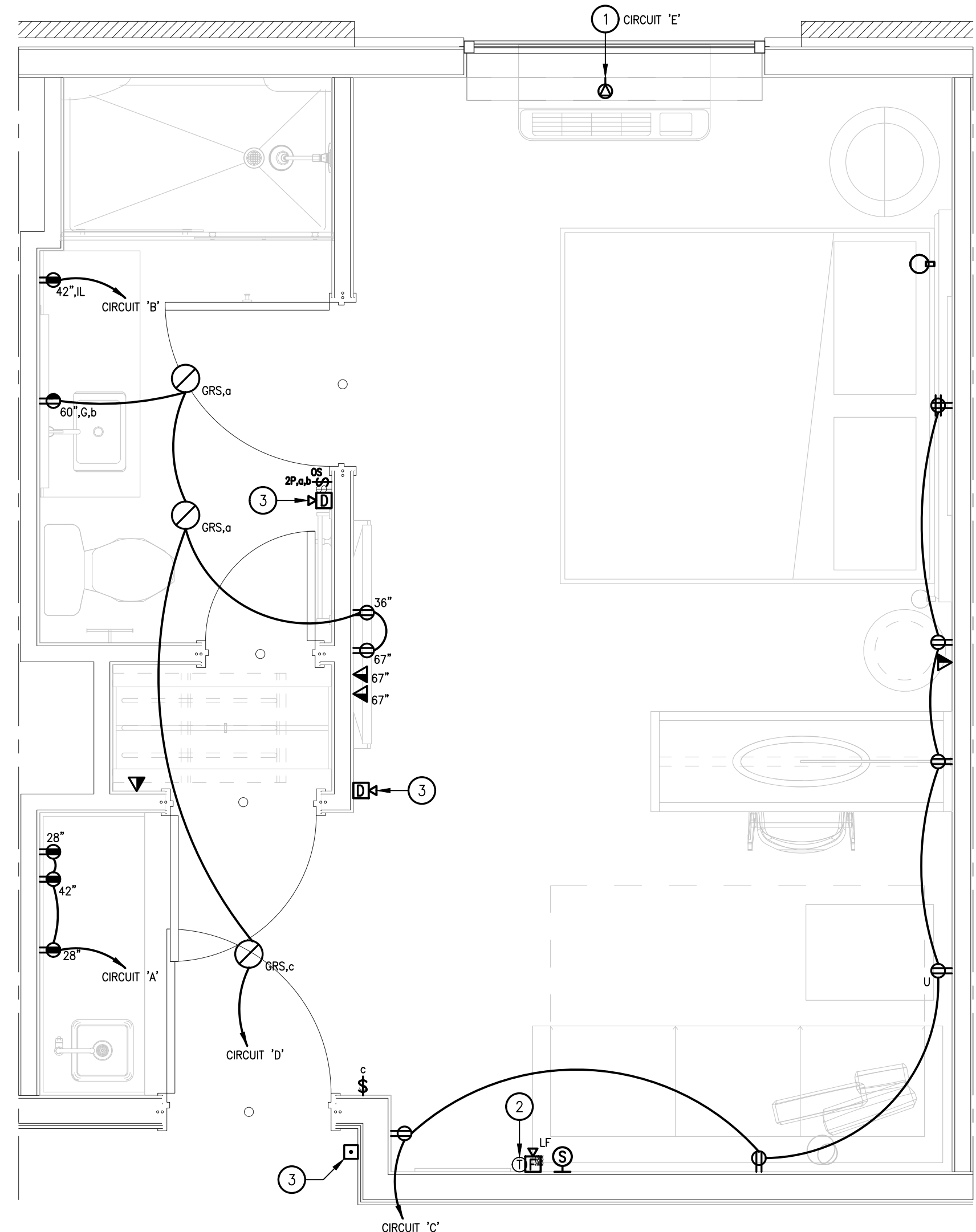
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E2.5



2
E3.1
TYPICAL ADA KING SUITE ELECTRICAL PLAN
SCALE: 1/2" = 1'-0"



1
E3.1
TYPICAL KING SUITE ELECTRICAL PLAN
SCALE: 1/2" = 1'-0"

CODED NOTES

- 1 PTAC UNIT (3.328KW-208V-1P): PROVIDE A NEMA 6-20R RECEPTACLE. WIRING SHALL BE 2#12, 1#12(G), 3/4" C. TO THE 20A-2P CIRCUIT BREAKER SHOWN ON PLAN. COORDINATE LOCATION OF JUNCTION BOX WITH LOCATION OF PTAC UNIT TO ENSURE MINIMAL VISIBILITY OF CORP.
- 2 LOCATION OF THERMOSTAT CONTROLLING SUITE PTAC UNIT. COORDINATE FINAL LOCATION WITH OWNER/ARCHITECT. E.C. TO INCLUDE COST OF PROVIDING AND INSTALLING ANY AND ALL 120V WIRING FOR FULL OPERATION. COORDINATE ALL WORK WITH M.C.
- 3 LOCATION OF HEARING IMPAIRED DEVICES TO BE PROVIDED ONLY IN HEARING IMPAIRED UNITS. REFER TO OVERALL POWER FLOOR PLANS ON #E2.x SERIES DRAWINGS FOR LOCATIONS OF THESE UNITS. REFER TO WIRING DIAGRAM ON DRAWING #E0.3 FOR ADDITIONAL INFORMATION.

GUEST SUITE ELECTRICAL GENERAL NOTES

- DEVICES ON SHARED WALLS BETWEEN GUEST SUITES SHALL NOT SHARE STUD SPACES TO ASSIST IN SOUND ATTENUATION. OFFSET DEVICES TO ADJACENT STUD SPACES AT NECESSARY LOCATIONS.
- ALL DEVICES SHOWN ON THIS PLAN SHALL MEET BRAND APPROVAL. REFER TO CURRENT LIST OF APPROVED DEVICES AT IHG DESIGN CONNECT PRIOR TO INSTALLATION TO ENSURE ACCEPTANCE.
- REFER TO OVERALL PLANS FOR BRANCH CIRCUIT HOMERUN NUMBERING.

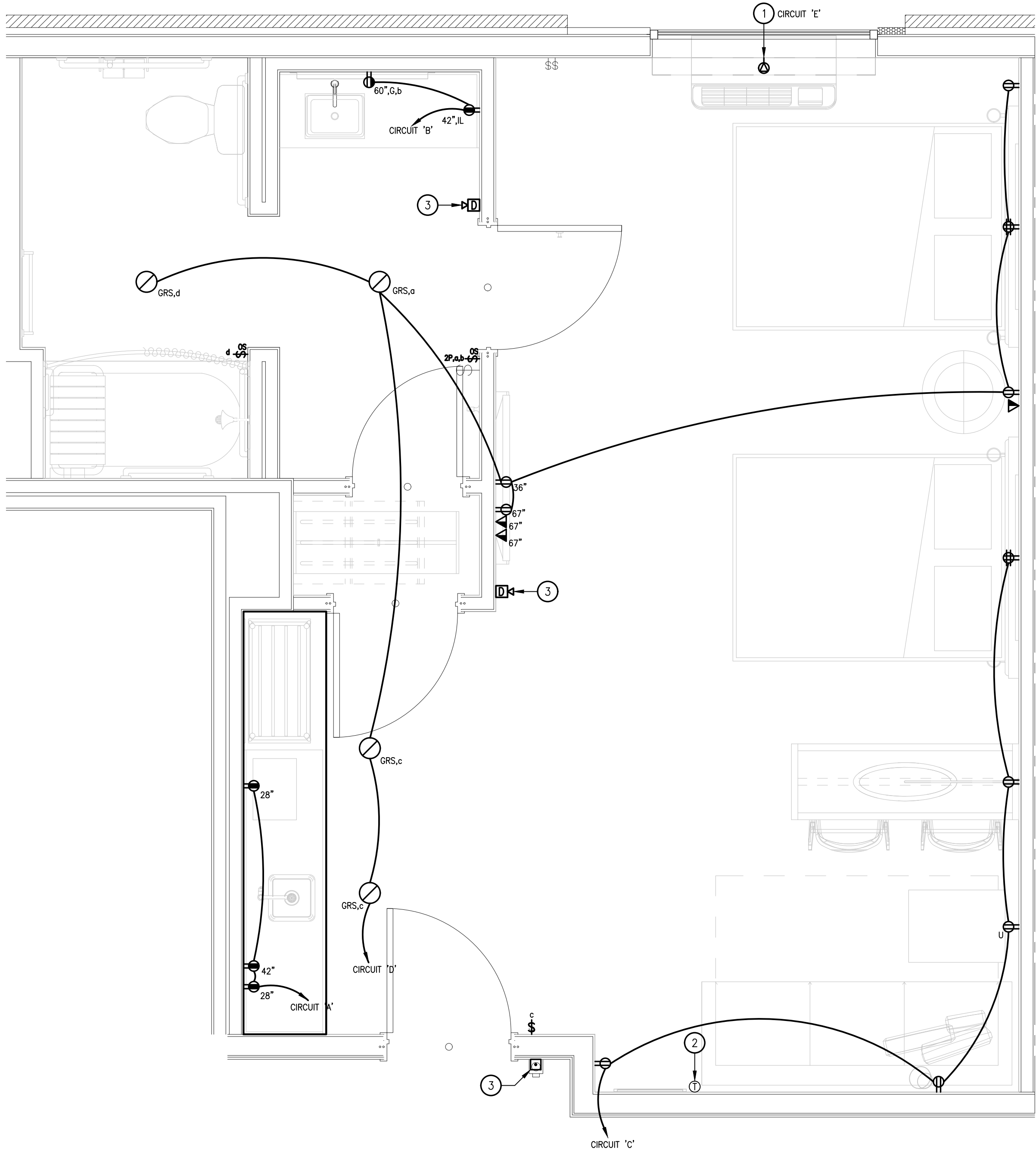


ATWELL SUITES
AN IHG HOTEL
ERLEN DR. & MINDEN DR. FISHERS, INDIANA 46037 HAMILTON COUNTY
ENLARGED KING GUEST SUITE ELECTRICAL PLANS

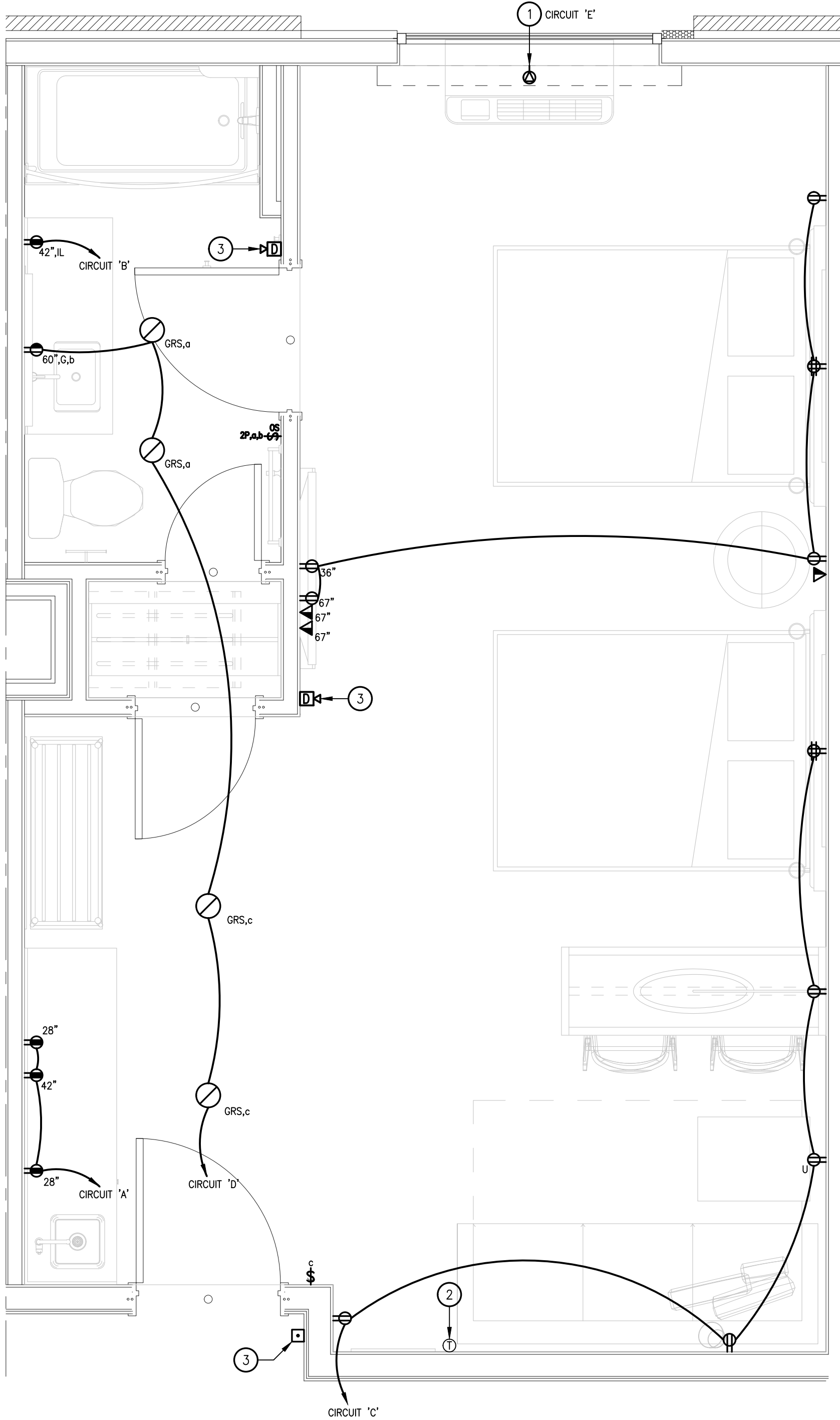
ISSUE / REVISION DATE:	
05/04/2022	OWNER REVIEW
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01/26/2024	FOR CONSTRUCTION

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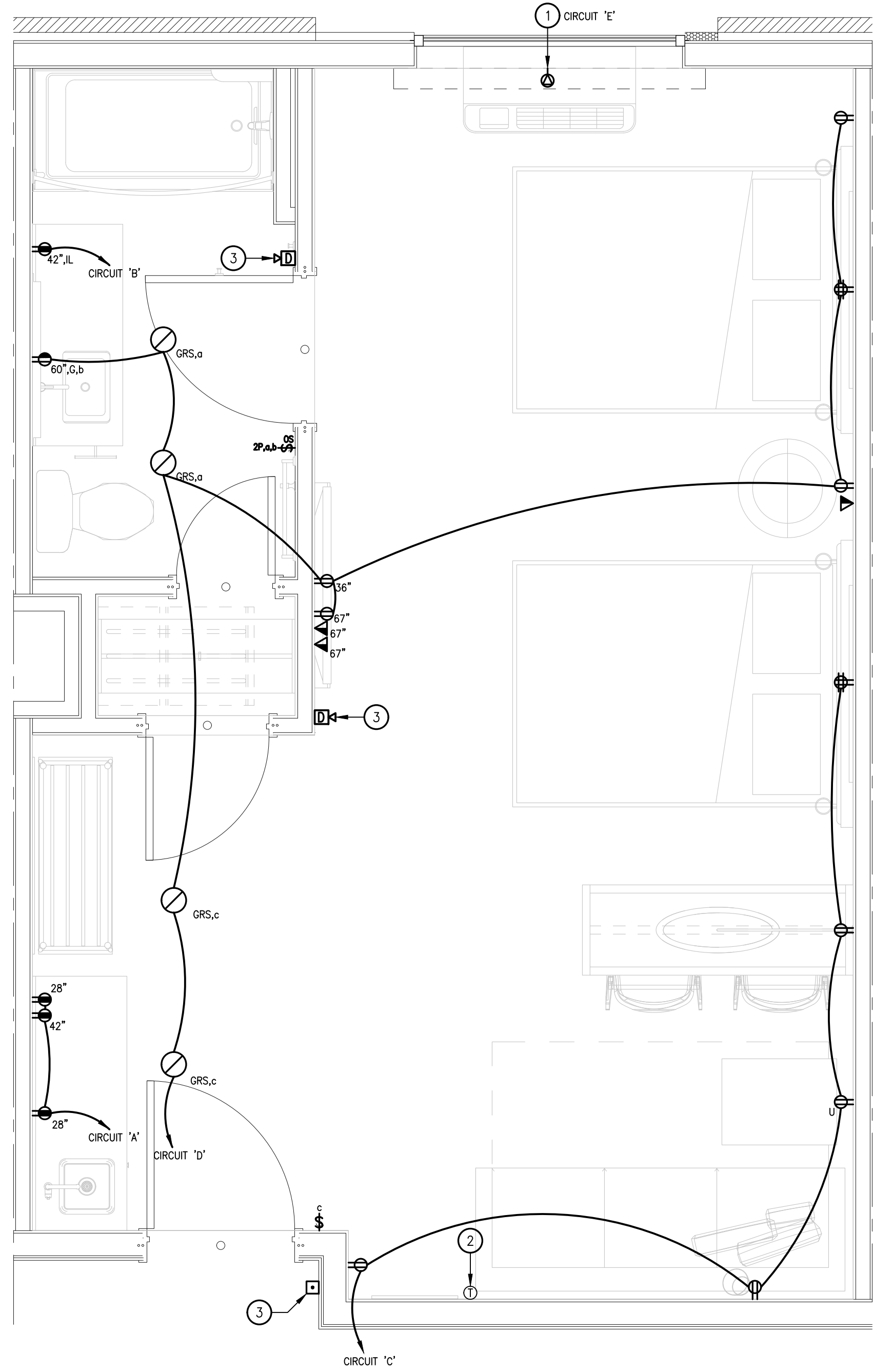
E3.1



3
E3.2
TYPICAL ADA DOUBLE QUEEN SUITE ELECTRICAL PLAN
SCALE: 1/2" = 1'-0"



2
E3.2
TYPICAL DOUBLE QUEEN SUITE EXTENDED ELECTRICAL PLAN
SCALE: 1/2" = 1'-0"



1
E3.2
TYPICAL DOUBLE QUEEN SUITE ELECTRICAL PLAN
SCALE: 1/2" = 1'-0"

CODED NOTES

- 1 PTAC UNIT (3.328KW-208V-10): PROVIDE JUNCTION BOX FOR HARD WIRED CONNECTION TO UNIT. WIRING SHALL BE 2#12, 1#12(G), 3/4" TO THE 20A-2P CIRCUIT BREAKER SHOWN ON PLAN. COORDINATE LOCATION OF JUNCTION BOX WITH LOCATION OF PTAC UNIT TO ENSURE MINIMAL VISIBILITY OF CORD.
- 2 LOCATION OF THERMOSTAT CONTROLLING SUITE PTAC UNIT. COORDINATE FINAL LOCATION WITH OWNER/ARCHITECT. E.C. TO INCLUDE COST OF PROVIDING AND INSTALLING ANY AND ALL 120V WIRING FOR FULL OPERATION. COORDINATE ALL WORK WITH M.C.
- 3 LOCATION OF HEARING IMPAIRED DEVICES TO BE PROVIDED ONLY IN HEARING IMPAIRED UNITS. REFER TO OVERALL POWER FLOOR PLANS ON #E2.x SERIES DRAWINGS FOR LOCATIONS OF THESE UNITS. REFER TO WIRING DIAGRAM ON DRAWING #E0.3 FOR ADDITIONAL INFORMATION.

GUEST SUITE ELECTRICAL GENERAL NOTES

- DEVICES ON SHARED WALLS BETWEEN GUEST SUITES SHALL NOT SHARE STUD SPACES TO ASSIST IN SOUND ATTENUATION. OFFSET DEVICES TO ADJACENT STUD SPACES AT NECESSARY LOCATIONS.
- ALL DEVICES SHOWN ON THIS PLAN SHALL MEET BRAND APPROVAL. REFER TO CURRENT LIST OF APPROVED DEVICES AT IHG DESIGN CONNECT PRIOR TO INSTALLATION TO ENSURE ACCEPTANCE.
- REFER TO OVERALL PLANS FOR BRANCH CIRCUIT HOMERUN NUMBERING.



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ATWELL SUITES
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ENLARGED QUEEN GUEST SUITE
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E3.2

MATERIALS AND WORK REQUIRING SPECIAL INSPECTIONS

- (PER 2012 INDIANA BUILDING CODE)
- INSPECTION OF FABRICATORS UNLESS EXEMPT BY CODE SECTION 1704.2.1, THE SPECIAL INSPECTOR SHALL VERIFY THAT THE FABRICATOR MAINTAINS DETAILED FABRICATION AND QUALITY CONTROL PROCEDURES THAT PROVIDE A BASIS FOR INSPECTION CONTROL OF THE WORKMANSHIP AND THE FABRICATOR'S ABILITY TO CONFORM TO APPROVED CONSTRUCTION DOCUMENTS AND REFERENCED STANDARDS. THE SPECIAL INSPECTOR SHALL REVIEW THE PROCEDURES FOR COMPLETENESS AND ADEQUACY RELATIVE TO THE CODE REQUIREMENTS FOR THE FABRICATORS SCOPE OF WORK.
 - STEEL CONSTRUCTION THE SPECIAL INSPECTIONS FOR STEEL ELEMENTS OF BUILDINGS AND STRUCTURES SHALL BE AS REQUIRED BY TABLE 1704.3.
 - CONCRETE CONSTRUCTION UNLESS EXEMPT BY CODE SECTION 1704.4 THE SPECIAL INSPECTIONS AND VERIFICATIONS FOR CONCRETE CONSTRUCTION SHALL BE AS REQUIRED BY TABLE 1704.4.
 - MASONRY CONSTRUCTION MASONRY CONSTRUCTION SHALL BE INSPECTED AND EVALUATED IN ACCORDANCE WITH THE REQUIREMENTS OF TABLE 1704.5.1.
 - SOILS (PERFORMED BY SITE TESTING AGENCY) SOILS SHALL BE INSPECTED AND EVALUATED IN ACCORDANCE WITH THE REQUIREMENTS OF TABLE 1704.7. REFER TO DRAWING S1.1 FOR ALLOWABLE SOIL BEARING PRESSURE VERIFICATION.
 - WOOD TRUSSES (1704.6.2) WHERE A TRUSS CLEAR SPAN IS 60 FEET OR GREATER, THE SPECIAL INSPECTOR SHALL VERIFY THAT THE TEMPORARY INSTALLATION RESTRAINT/BRACING AND THE PERMANENT INDIVIDUAL TRUSS MEMBER RESTRAINT/BRACING ARE INSTALLED IN ACCORDANCE WITH THE APPROVED TRUSS SUBMITTAL PACKAGE AND THE RECOMMENDATIONS OF THE TRUSS PLATE INSTITUTE (TPI) IN THE "GUIDE TO GOOD PRACTICE FOR HANDLING, INSTALLING, RESTRAINING, & BRACING OF METAL PLATE CONNECTED WOOD TRUSSES."
 - STRUCTURAL WOOD (1706.1 AND 1706.2) THE SPECIAL INSPECTOR SHALL PROVIDE PERIODIC INSPECTION OF WOOD SHEAR PANELS INCLUDING BUT NOT LIMITED TO: NAILING, BOLTING, AND HOLD-DOWN ANCHORS IN ACCORDANCE WITH CONSTRUCTION DOCUMENTS.
 - MASTIC AND INTUMESCENT FIRE-RESISTANT COATINGS (1705.15) SPECIAL INSPECTIONS AND TESTS FOR MASTIC AND INTUMESCENT FIRE-RESISTANT COATINGS APPLIED TO STRUCTURAL ELEMENTS AND DECKS SHALL BE PERFORMED IN ACCORDANCE WITH AWSI 12-B. SPECIAL INSPECTIONS AND TEST SHALL BE BASED ON THE FIRE-RESISTANCE DESIGN AS DESIGNATED IN THE APPROVED CONSTRUCTION DOCUMENTS

Table 1704.3 (2012 INDIANA BUILDING CODE) REQUIRED VERIFICATION AND INSPECTION OF STEEL CONSTRUCTION					
APPLICABLE (Unless noted N/A)	VERIFICATION AND INSPECTION	CONTINUOUS	PERIODIC	REFERENCED STANDARD *	IBC REFERENCE
	1. Material verification of high-strength bolts, nuts and washers:				
	a. Identification markings to conform to ASTM standards specified in the approved construction documents.	-	X	AISC 360, Section A3.3 and applicable ASTM material standards	-
	b. Manufacturer's certificate of compliance required.	-	X	-	-
	2. Inspection of high-strength bolting:				
	a. Snug-tight joints.	-	X	-	-
n/a	b. Pretensioned and slip-critical joints using turn-of-nut with matchmarking, twist-off bolt or direct tension methods of installation	-	X	AISC 360, Section M2.5	1704.3.3
n/a	c. Pretensioned and slip-critical joints using turn-of-nut without matchmarking or calibrated wrench methods of installation	X	-	-	-
	3. Material verification of structural steel and cold-formed steel deck:				
	a. For structural steel, identification markings to conform to AISC 360.	-	X	AISC 360, Section M5.5	-
	b. For other steel, identification markings to conform to ASTM standards specified in the approved construction documents	-	-	Applicable ASTM material standards	-
	c. Manufacturer's certified test reports.	-	X	-	-
	4. Material verification of weld filler materials:				
	a. Identification markings to conform to AWS specification in the approved construction documents.	-	X	AISC 360, Section A3.5 and applicable AWS A5 documents	-
	b. Manufacturer's certificate of compliance required.	-	X	-	-
	5. Inspection of welding:				
	a. Structural Steel and cold-formed steel deck:				
n/a	1) Complete and partial penetration groove welds.	X	-	AWS D1.1	1704.3.1
n/a	2) Multipass fillet welds.	X	-		
n/a	3) Single-pass fillet welds > 5/16"	X	-		
n/a	4) Plug and slot welds.	X	-		
n/a	5) Single-pass fillet welds ≤ 5/16"	-	X		
	6) Floor and roof deck welds.	-	X	AWS D1.3	-
	b. Reinforcing steel:				
n/a	1) Verification of weldability of reinforcing steel other than ASTM A706.	-	X	AWS D1.4 ACI 318: 3.5.2	-
n/a	2) Reinforcing steel resisting flexural and axial forces in intermediate and special moment frames, and boundary elements of special structural walls of concrete and shear reinforcement.	X	-		
	3) Shear reinforcement.	X	-		
	4) Other reinforcing steel.	-	X		
	6. Inspection of steel frame joint details for compliance:				
	a. Details such as bracing and stiffening.	-	X	-	1704.3.2
	b. Member locations.	-	X	-	
	c. Application of joint details at each connection	-	X	-	

For Sl: 1 inch = 25.4 mm.
a. Where applicable, see also Section 1707.1, Special inspection for seismic resistance.

Table N5.6-1 Inspection Tasks Prior to Bolting		
Inspection Tasks Prior to Bolting	QC	QA
Manufacturer's certifications available for fastener materials	O	P
Fasteners marked in accordance with ASTM requirements	O	O
Proper fasteners selected for the joint detail (grade, type, bolt length if threads are to be excluded from shear plane)	O	O
Proper bolting procedure selected for joint detail	O	O
Connecting elements, including the appropriate laying surface condition and hole preparation, if specified, meet applicable requirements	O	O
Pre-installation verification testing by installation personnel observed and documented for fastener assemblies and methods used	P	O
Proper storage provided for bolts, nuts, washers and other fastener components	O	O

Table N5.6-2 Inspection Tasks During Bolting		
Inspection Tasks During Bolting	QC	QA
Fastener assemblies, of suitable condition, placed in all holes and washers (if required) are positioned as required	O	O
Joint brought to the snug-tight condition prior to pretensioning operation	O	O
Fastener component not turned by the wrench prevented from rotating	O	O
Fasteners are pretensioned in accordance with the RCSC Specification, progressing systematically from the most rigid point toward the free edges	O	O

Table N5.6-3 Inspection Tasks After Bolting		
Inspection Tasks After Bolting	QC	QA
Document acceptance or rejection of bolted connections	P	P

Table 1704.4 (2012 INDIANA BUILDING CODE) REQUIRED VERIFICATION AND INSPECTION OF CONCRETE CONSTRUCTION					
APPLICABLE (Unless noted N/A)	VERIFICATION AND INSPECTION	CONTINUOUS	PERIODIC	REFERENCED STANDARD *	IBC REFERENCE
	1. Inspection of reinforcing steel, including prestressing tendons, and placement.	-	X	ACI 318: 3.5, 7.1-7.7	1913.4
n/a	2. Inspection of reinforcing steel welding in accordance with Table 1704.3, Item 5b.	-	-	AWS D1.4 ACI 318: 3.5.2	-
n/a	3. Inspection of bolts to be installed in concrete prior to and during placement of concrete where allowable loads have been increased or where strength design is used.	X	-	ACI 318: 8.1.3, 21.2.8	1911.5 1912.1
	4. Inspection of anchors installed in hardened concrete.	-	X	ACI 318: 3.6.6, 8.1.3, 21.2.8	1912.1
	5. Verifying use of required design mix.	-	X	ACI 318: Ch. 4, 5.25.4	1904.2.2; 1913.2, 1913.3
	6. At the time fresh concrete is sampled to fabricate specimens for strength tests, perform slump and air content tests, and determine the temperature of the concrete.	X	-	ASTM C172 ASTM C31 ACI 318: 5.6, 5.8	1913.10
	7. Inspection of concrete and shotcrete placement for proper application techniques.	X	-	ACI 318: 5.9, 5.10	1913.6, 1913.7, 1913.8
	8. Inspection for maintenance of specified curing temperature and techniques.	-	X	ACI 318: 5.11-5.13	1913.9
n/a	9. Inspection of prestressed concrete: a. Application of prestressing forces. b. Grouting of bonded prestressing tendons in the seismic-force-resisting system.	X	-	ACI 318: 18.20 ACI 318: 18.18.4	-
n/a	10. Erection of precast concrete members.	-	X	ACI 318: Ch. 16	-
n/a	11. Verification of in-situ concrete strength, prior to stressing of tendons in posttensioned concrete, and prior to removal of shores and forms from beams and structural slabs.	-	X	ACI 318: 6.2	-
	12. Inspect formwork for shape, location and dim's of the concrete member being formed.	-	X	ACI 318: 6.1.1	-

For Sl: 1 inch = 25.4 mm.
a. Where applicable, see also Section 1707.1, Special inspection for seismic resistance.

Table 1704.7 (2012 INDIANA BUILDING CODE) REQUIRED VERIFICATION AND INSPECTION OF SOILS			
APPLICABLE (Unless noted N/A)	VERIFICATION AND INSPECTION TASK	CONTINUOUS DURING TASK LISTED	PERIODICALLY DURING TASK LISTED
	1. Verify materials below shallow footings are adequate to achieve the design bearing capacity.	-	X
	2. Verify excavations are extended to proper depth and have reached proper material.	-	X
	3. Perform classification and testing of compacted fill materials.	-	X
	4. Verify use of proper materials, densities and lift thicknesses during placement and compaction of compacted fill.	X	-
	5. Prior to placement of compacted fill, observe subgrade and verify that site has been prepared properly.	-	X

GENERAL FLOOR & ROOF FRAMING NOTES:

ALL ROOF PLYWOOD SHEATHING SHALL CONFORM TO U.S. PRODUCT STANDARD PS-1-95 WITH EXTERIOR GLUE.

PLYWOOD SHEETS SHALL BE LAID WITH LONG DIMENSION PERPENDICULAR TO THE SUPPORTING FRAMING.

PLYWOOD ROOF SHEATHING SHALL BE 1932" CDX (INDEX 48/24) AND SHALL BE FASTENED WITH 8d NAILS @ 6" OC AT ALL EDGES AND 8d NAILS @ 12" OC IN PANEL FIELD, UNBLOCKED. USE SAME FASTENING PATTERN FOR FLOOR SHEATHING

DESIGN SHALL CONSIDER LOADS INDICATED AS WELL AS ALL MECHANICAL EQUIPMENT AND CEILING SOFFIT CONSTRUCTION SHOWN ON THE ARCHITECTURAL DRAWINGS.

BEARING WALL STUDS SHALL BE 2x6's @ 16" c/c (SO PINE #3 OR HEM. FIR #3 / STUD GRADE OR BETTER) W/ (2) ROWS OF BLOCKING AT THIRD POINTS. MINIMUM EXTERIOR WALLS SHALL HAVE BLOCKING @ SHEATHING PANEL EDGES THROUGH-OUT. 1ST FLOOR STUDS, EXTERIOR AND INTERIOR, SHALL BE SPACED AT 12" O.C. OR #2 GRADE. ALL STRUCTURAL FRAMING LUMBER OTHER THAN STUDS SHALL BE S.D. PINE #1

ROOF TRUSSES ARE TO BE SPACED AT 2'-0" c/c (max) - UNO.

TRUSSES SHALL BE DESIGNED W/ CONSIDERATION OF DRIFTING SNOW & MECHANICAL EQUIPMENT LOADS.

TRUSSES SHALL BE DESIGNED FOR THE FOLLOWING MINIMUM LOADS:
LL=20 PSF AT ROOF
DL=20 PSF AT ROOF

ALL TRUSSES SHALL BE DESIGNED FOR THE ACTUAL DEAD LOAD PLUS LIVE LOAD (SPECIFIED BELOW), MAXIMUM DEFLECTION DUE TO LIVE LOAD ONLY SHALL NOT EXCEED L/480. MAXIMUM DEFLECTION DUE TO TOTAL LOAD SHALL NOT EXCEED L/240.

SHOP DRAWINGS SHALL INDICATE ALL LATERAL BRIDGING REQUIRED WHICH SHALL BE SUPPLIED BY THE CONTRACTOR.

SUBMIT SHOP DRAWINGS FOR ALL FLOOR AND ROOF TRUSSES. SHOP DRAWINGS SHALL INDICATE PLACING OF ALL FRAMING MEMBERS SHOWING TYPE, SIZE, NUMBER, LOCATION AND SPACING. THEY SHALL ALSO INDICATE SUPPLEMENTAL BRACING, SPLICES, BRIDGING, ACCESSORIES AND DETAILS REQUIRED FOR PROPER INSTALLATION.

SHOP DRAWINGS SUBMITTED MUST BE PREPARED UNDER THE SUPERVISION OF AND SEALED BY A REGISTERED PROFESSIONAL ENGINEER IN THE STATE OF INDIANA.

ALL TRUSSES AND CONNECTIONS SHALL BE DESIGNED BY THE SUPPLIER'S ENGINEER. SUBMIT CALCULATIONS FOR ALL TRUSSES AND THEIR CONNECTIONS.

TEMPORARY BRACING, WHERE REQUIRED, SHALL BE PROVIDED UNTIL THE ERECTION IS COMPLETE.

TRUSS SUPPLIER TO PROVIDE PRE-ENGINEERED WOOD TRUSSES (PEWT).

DESIGN TRUSSES FOR SNOW DRIFT OF 48 PSF SURCHARGE WITH DRIFT WIDTH EQUAL TO 11'-6" AT ALL PARAPETS GREATER THAN 2'-0" TALL. PARAPET "KICKERS" IMPART 450# LOAD (ASD) DOWNWARD ON TRUSSES AT BRACING LOCATIONS.

ALL WORK TO CONFORM TO THE NFPA SPECIFICATIONS AND "DESIGN AND SPECIFICATIONS FOR LIGHT METAL PLATE CONNECTED WOOD TRUSSES", BY TRUSS PLATE INSTITUTE. REFER TO THE STRUCTURAL DESIGN LOADS SECTION FOR LOADS. SHOP DRAWINGS ARE REQUIRED AND SHALL BEAR THE DESIGNER'S SEAL FROM THE STATE OF INDIANA, SHOW ALL DESIGN AND FABRICATION DATA. TEMPORARY AND PERMANENT BRACING REQUIREMENTS, AND HANDLING OR ERECTION INSTRUCTIONS, PURSUANT TO THE SIZE OF THE TRUSSES AND SPAN. SOME TRUSSES MAY HAVE TO BE FIELD SPLICED BOTH IN LENGTH AND HEIGHT. THE TRUSS SUPPLIER SHALL PROVIDE ALL "TRUSS TO TRUSS" CONNECTORS.

COORDINATE TRUSS DIMENSIONS W/ ARCH. DRAWINGS.

ALL ROOF TRUSSES ARE TO BE INSTALLED WITH SIMPSON TSJ CLIPS AT EACH END

✕ DENOTES SHEAR WALL LOCATION WITH HOLD-DOWNS

GENERAL FOUNDATION NOTES:

CONCRETE SLABS ON GRADE TO BE 4" CONCRETE SLAB W/ (1) LAYER 6x6 W2.8W2.9 MESH (CENTERED IN SLAB DEPTH) ON 6" (MIN) GRANULAR BASE. CONTROL JOINT SPACING SHALL NOT EXCEED 10'-0" IN EITHER DIRECTION (UNO).

FD - DENOTES FLOOR DRAIN LOCATION - REFER TO PLUMBING DRAWINGS TO VERIFY QUANTITIES AND LOCATIONS. SLOPE SLAB 1/16" per FOOT (min) TO FLOOR DRAINS - MAINTAIN SLAB THICKNESS. ANY SLOPES SHOWN ON PLAN ARE FOR COORDINATION ONLY - FINAL LAYOUT TO BE VERIFIED PRIOR TO POURING SLABS.

PLUMBING LINES AND INVERT ELEVATIONS ARE ALSO SHOWN FOR EASE OF COORDINATION ONLY - FINAL LOCATIONS ARE TO BE TAKEN FROM PLUMBING DRAWINGS. FOOTINGS ARE TO BE STEPPED ACCORDINGLY IF FINAL LAYOUT DIFFERS FROM WHAT IS SHOWN HERE. STEP FOOTING OR LOWER BEARING DEPTH WITH LEANCONCRETE ACCORDING TO PROXIMITY RELATIONSHIP SHOWN ON UTILITY TRENCH DETAIL: ON SHEET S2.1. UTILITY EXCAVATIONS SHALL NOT INFRIEGE OR UNDERMINE BUILDING FOUNDATIONS.

REFER TO SHEET S2.2 FOR ADDITIONAL TYPICAL CONCRETE / FOUNDATION DETAILS.

FS - DENOTES FOOTING STEP. SEE DETAILS ON S2.2 AND S2.3 FOR EXTERIOR TRENCH FOOTING STEP, INTERIOR FOOTING STEP & TRANSITION STEP FROM EXTERIOR TRENCH FOOTING TO INTERIOR FOOTING.

B/F EL xxx'-xxx" INDICATES BOTTOM OF FOOTING ELEVATION (96'-6" AT EXTERIOR AND 97'-8" AT INTERIOR UNLESS NOTED OTHERWISE). T/F 16 = 96'-8" U.N.O.

REINFORCE 8" CMU WALL WITH #5 BARS @ 32" O.C., FULL HEIGHT OF WALL, TYPICAL. NO CONTROL JOINTS IN SHAFTS

Fxx DENOTES FOOTING TYPE MARK - SEE FOOTING SCHEDULE FOR DESCRIPTION & REINFORCING.

ALL ROOF TRUSSES ARE TO BE INSTALLED WITH SIMPSON TSJ CLIPS AT EACH END

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Fxx DENOTES FOOTING TYPE MARK - SEE FOOTING SCHEDULE FOR DESCRIPTION & REINFORCING.

STRUCTURAL DESIGN LOADS

FOUNDATION DESIGN CRITERIA:

DESIGN ALLOWABLE SOIL BEARING PRESSURE: 2,000 PSF FOR SPREAD FOOTINGS, 1,600 PSF FOR CONTINUOUS WALL FOOTINGS

SEE GEOTECHNICAL REPORT BY ALT & WITZIG ENGINEERING, INC. DATED SEPTEMBER 13, 2021 FOR ADDITIONAL INFORMATION. VERIFY BEARING CAPACITY OF SOIL PRIOR TO PLACEMENT OF FOOTINGS. PROVIDE COPIES OF INSPECTION AND COMPACTION REPORTS PREPARED BY A QUALIFIED GEOTECHNICAL ENGINEER.

BUILDING CODE: IBC 2012 w/ INDIANA AMENDMENTS

FLOOR DESIGN LOADS

LIVE LOAD:

= 100 PSF - STAIRWAYS AND LANDINGS
= 100 PSF - 1ST FLOOR CORRIDORS
= 40 PSF - GUEST ROOMS AND CORRIDORS

DEAD LOAD:

= 35 PSF - UPPER FLOORS
= 20 PSF - ROOF

ROOF DESIGN LOADS:

= 20 PSF - MINIMUM ROOF LIFE LOAD

SNOW LOAD (ASCE 7-10):

GROUND SNOW LOAD, PG = 20 PSDF
FLAT ROOF SNOW LOAD, PF = 20 PSF
MINIMUM VALUE FOR LOW-SLOPE ROOFS, PM = 20 PSF
SNOW IMPORTANCE FACTOR, IS = 1.0
THERMAL FACTOR, CT = 1.0
EXPOSURE FACTOR, CE = 1.0

WIND LOAD (ASCE 7-10):

RISK CATEGORY II
BASIC WIND SPEED (3 SECOND GUST), V = 115 MPH (VULT.)
WIND IMPORTANCE FACTOR, IW = 1.0
WIND EXPOSURE C
NET WIND UPLIFT ON JOISTS = -16.2 PSF, -1.5 PSF
INTERNAL PRESSURE COEFFICIENT = +/- 0.18
FLAT ROOF (MEAN ROOF HT = 45'-0")
- IMFPRS
PS30, HORIZONTAL = 32.0 PSF, 21.3 PSF
PS30, VERTICAL = -28.2 PSF, -19.5 PSF
COMPONENTS & CLADDING (BASED ON 10 SF):
WALL: CC24 = 37.2 PSF, -40.3PSF
CC25 = 37.2 PSF, -49.8PSF
ROOF: CC21,2,3 = 14.1 PSF, -37.2, -62.3, -93.8 PSF
Y BASE S = 302 KIPS
Y BASE E = 140 KIPS

SEISMIC LOAD (ASCE 7-10):

OCCUPANCY CATEGORY II
SDS = 0.154 SS = 0.144
SD1 = 0.129 S1 = 0.129
SITE SOIL CLASS C
SEISMIC DESIGN CATEGORY B
BASIC SEISMIC FORCE RESISTING SYSTEM -
LIGHT-FRAME WALLS SHEATHED WITH WOOD
STRUCTURAL PANELS RATED FOR SHEAR
RESISTANCE
R/F SW = 6.5
IE = 1.00
CS (RFSW) = 0.024
EQUIVALENT LATERAL FORCE PROCEDURE USED IN
DESIGN
BASE SHEAR, VB = 73 KIPS

NAILING SCHEDULE

CONNECTION:

BRIDGING TO TRUSS
TOP PLATE TO STUD
STUD TO SILL PLATE
DOUBLE 2x4 STUDS
DOUBLE 2x4 STUDS
DOUBLE 2x4 TOP PLATES
DOUBLE 2x6 TOP PLATES
BUILT UP BEARING STUD PACKS
LUMBER HEADER - (2) OR MORE PIECES
LVL HEADER / BEAM - (2) OR MORE PIECES
EXTERIOR PLYWOOD WALL SHEATHING
INTERIOR SHEAR WALL PLYWOOD SHEATHING
FLOOR SHEATHING
ROOF SHEATHING

NAILING

(2) - 10d
(2) - 16d
(2) - 16d END NAIL OR (4) - 8d TIE NAIL
16d @ 12" c/c
(2) 16d @ 12" c/c
(2) 16d @ 8" c/c
(2) 16d @ 8" c/c
SEE HEADER DETAIL
SEE HEADER DETAIL
8d @ 12" c/c ALONG EDGES AND 6" c/c ALONG INTERMEDIATE
SUPPORTS (UNBLOCKED)
PER SHEAR WALL DETAIL
PER GENERAL NOTES
PER GENERAL NOTES

GENERAL MASONRY WALL VERTICAL REINFORCEMENT NOTES & DETAILS

GENERAL MASONRY WALL VERTICAL REINFORCEMENT NOTES:

MASONRY WALLS SHALL BE REINFORCED WITH #5 VERTICAL BARS @ 48" O/C TYPICALLY, WITH (1) #5 BAR WITHIN 8" OF EACH CORNER IN EACH DIRECTION.

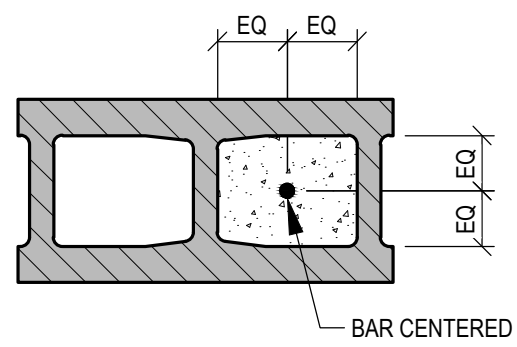
ALL VERTICAL WALL REINFORCING TO RUN FULL HEIGHT OF WALL (SEE BAR PLACEMENT DEFINITIONS THIS SHEET & PLACEMENT OF MASONRY WALL REINFORCEMENT - ELEVATION FOR MORE INFO).

CELLS W/ REINFORCING ARE TO BE GROUTED SOLID W/ 3,000 psi "COARSE AGGREGATE" GROUT - FULL HEIGHT OF REINFORCING.

ALL VERTICAL WALL REINFORCING IS TO BE DOWELED INTO FOOTINGS.

SEE TABLE THIS SHEET FOR LAP SPlice LENGTH REQUIREMENTS

MASONRY WALL VERTICAL REINFORCING BAR PLACEMENT DIAGRAM



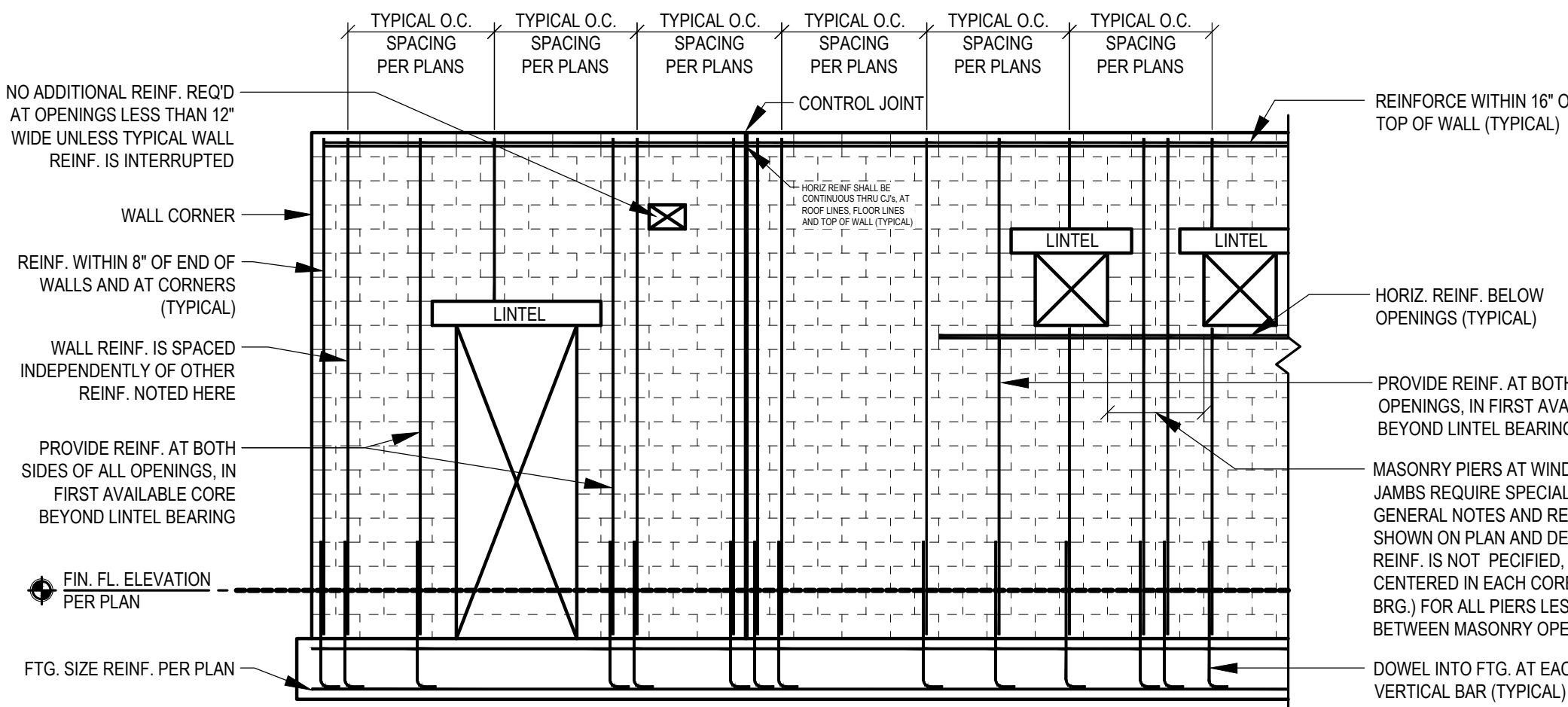
ALLOWABLE STRESS DESIGN LAP SPlice LENGTHS IN MASONRY WALL VERTICAL REINFORCING

BAR SIZE	MINIMUM LAP SPlice LENGTH (inches)
#3	27
#4	36
#5	45
#6	54

BASED ON THE STRESSES IN THE STEEL, F_y, TAKEN EQUAL TO 100% OF THE ALLOWABLE REINFORCEMENT TENSILE STRESS OF 24,000 psi FOR GRADE 60 REINFORCEMENT.

IF EPOXY COATED REINFORCEMENT IS USED LAP SPlice LENGTHS ARE TO BE INCREASED BY 50%

BARs LARGER THAN # 6 ARE REQUIRED TO BE SPLICED BY MECHANICAL CONNECTORS CAPABLE OF DEVELOPING 125% OF REBAR YIELD STRENGTH



PLACEMENT OF MASONRY WALL REINFORCEMENT - ELEVATION

SCALE: 1/4" = 1'-0"

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STRUCTURAL NOTES

ISSUE / REVISION DATE:

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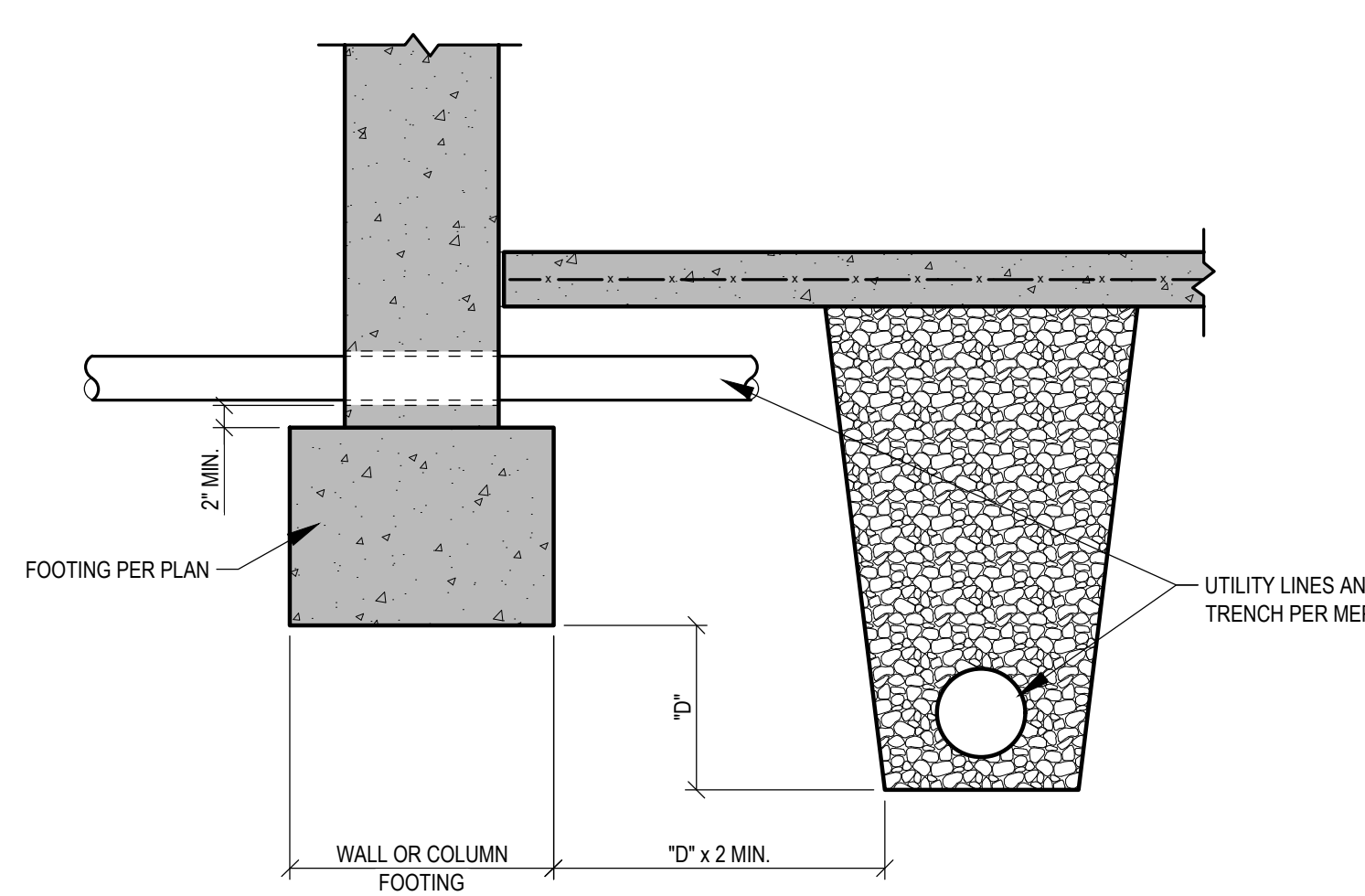
FOUNDATION PLAN

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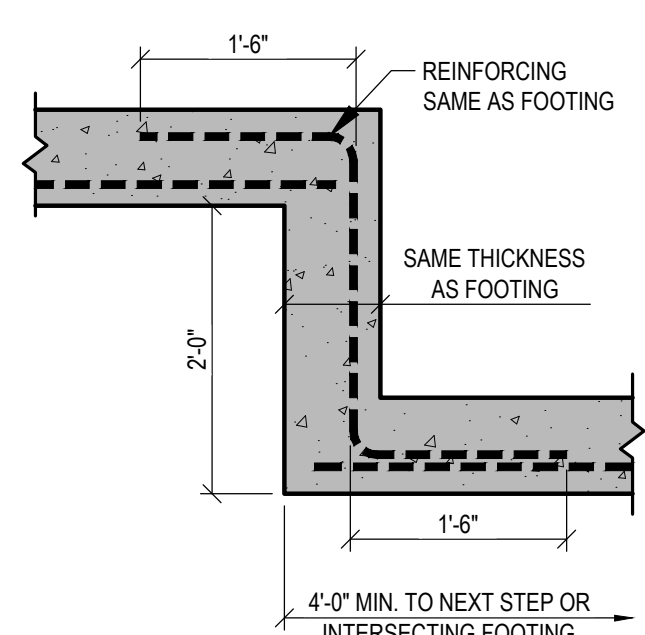
FOOTING SCHEDULE		
MARK	SIZE	REINFORCING
F3	3'-0" x 3'-0" x 1'-0" THICK	(3) #5 BARS EACH WAY
F4	4'-0" x 4'-0" x 1'-0" THICK	(5) #5 BARS EACH WAY
F5	5'-0" x 5'-0" x 1'-0" THICK	(7) #4 BARS EACH WAY
F6	6'-0" x 6'-0" x 1'-0" THICK	(8) #4 BARS EACH WAY
F7	7'-0" x 7'-0" x 1'-2" THICK	(7) #5 BARS EACH WAY
FW2.5	2'-6" WIDE x 12" x CONT.	(3) #5 CONT.
FT2.5	2'-6" WIDE x 26" x CONT.	(3) #5 CONT. T&B MATS



NOTE:
1. CONTRACTOR SHALL COORDINATE FOOTING ELEVATIONS AND INVERTS GIVEN ON DRAWINGS WITH MEP DRAWINGS FOR CONFORMITY TO THIS REQUIREMENT. REPORT ANY DISCREPANCIES TO THE ARCHITECT PRIOR TO POURING FOOTINGS
2. WHEN PLUMBING PENETRATES FOUNDATIONS, FOOTINGS SHALL BE LOWERED SO PIPES PASS THROUGH WALL WITH A MINIMUM SLEEVE CLEARANCE OF 2" ABOVE TOP OF FOOTING.

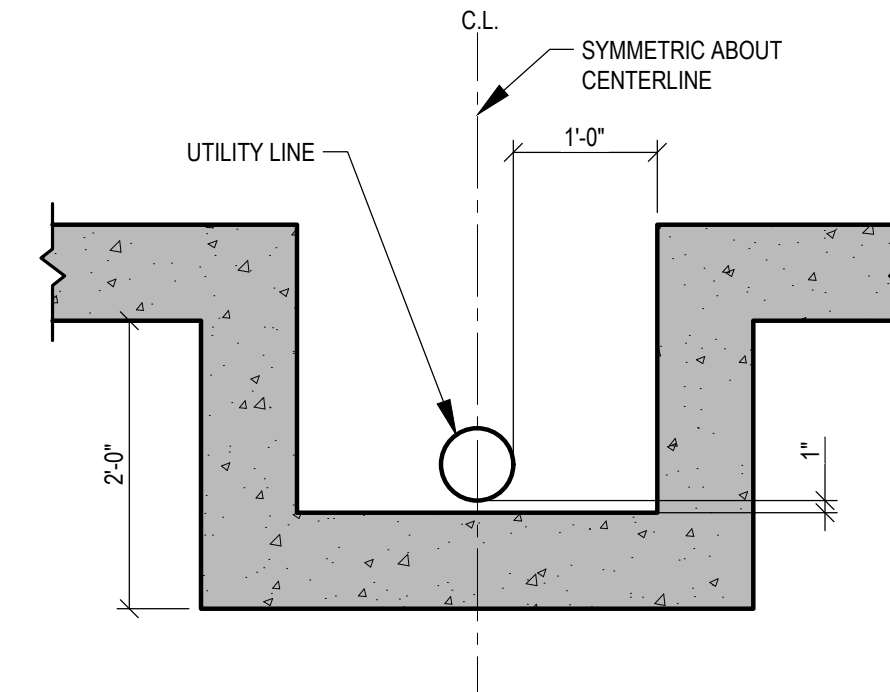
UTILITY TRENCH DETAIL

SCALE: 3/4" = 1'-0"



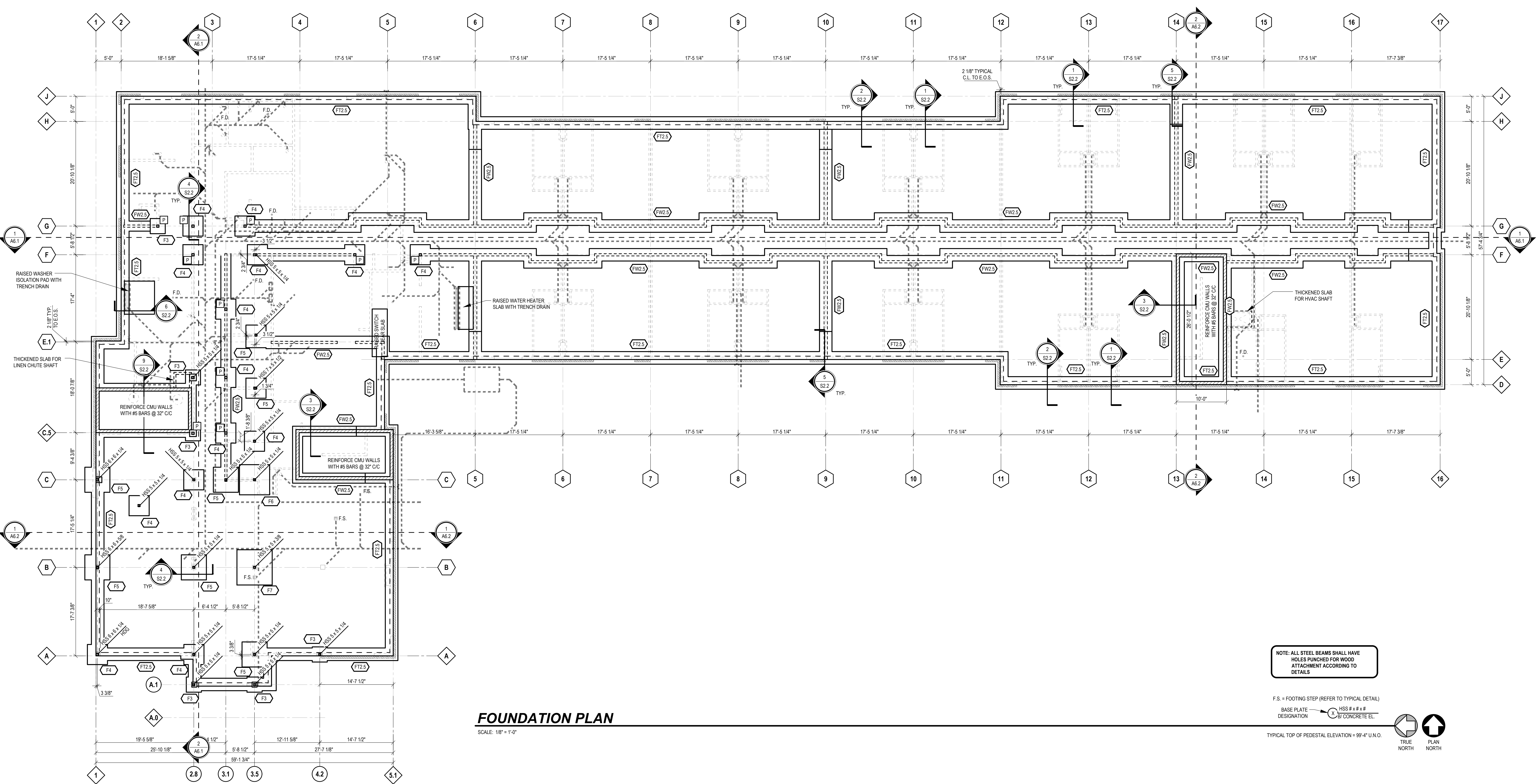
TYPICAL STEP FOOTING DETAIL

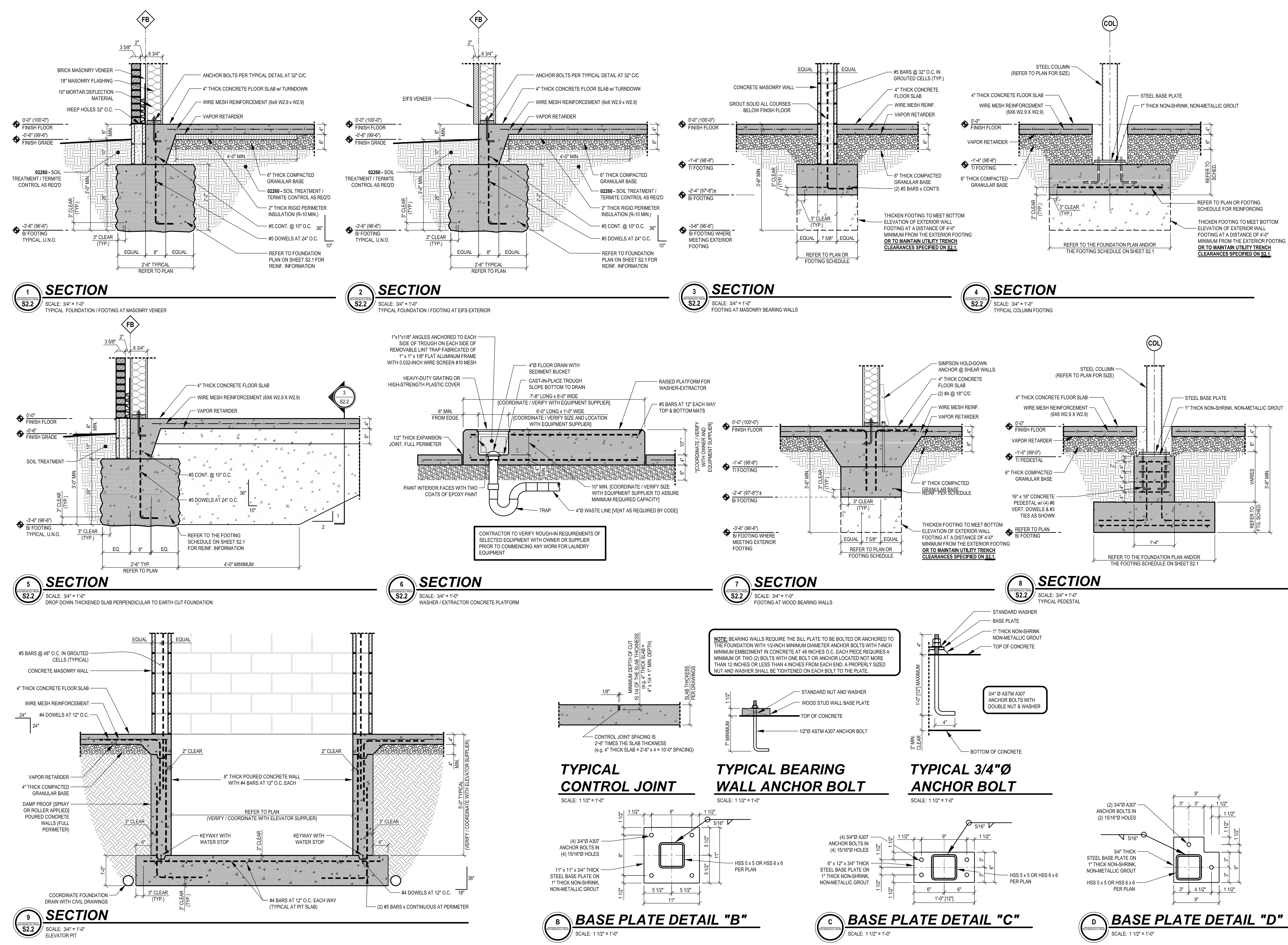
SCALE: 3/4" = 1'-0"



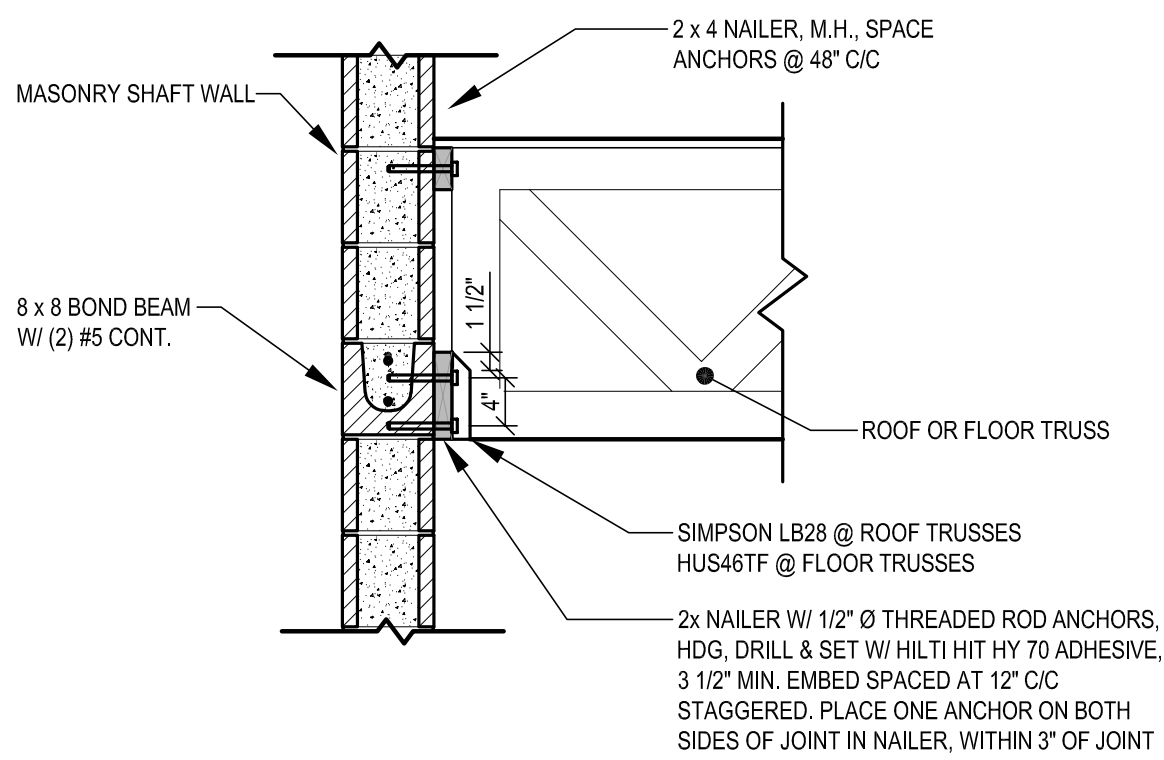
TYPICAL DROP FTG AT UTILITY LINE

SCALE: 3/4" = 1'-0"



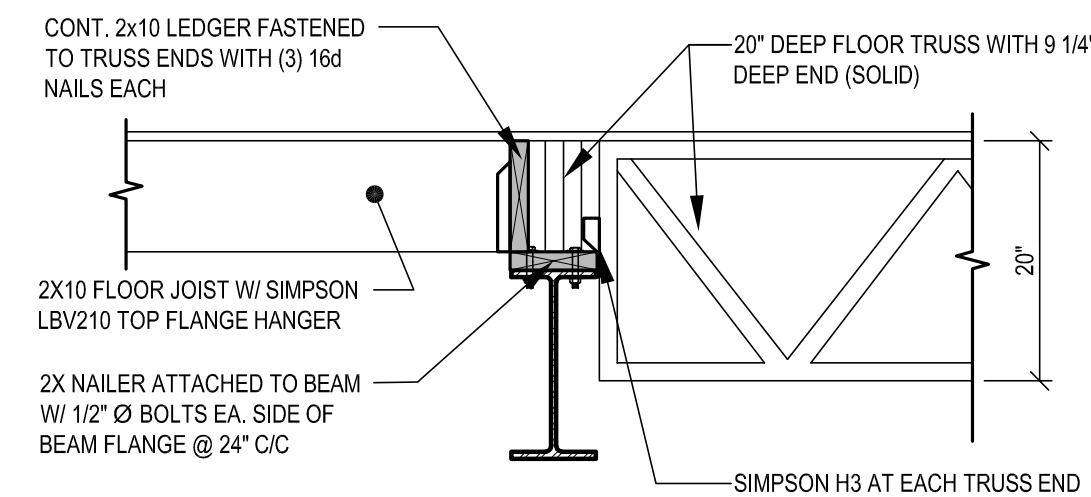


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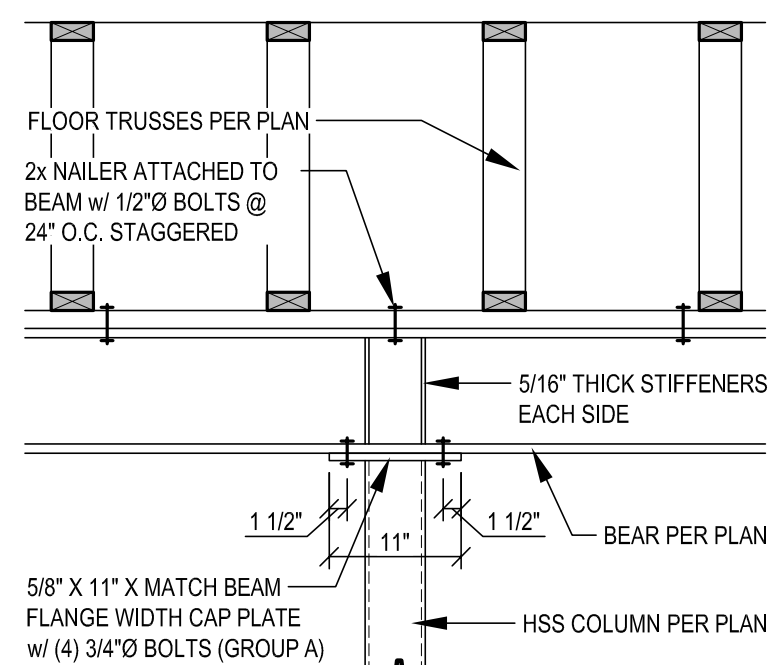
ROOF / FLOOR TRUSS NAILER AT MASONRY SHAFT WALL

SCALE: 3/4" = 1'-0"



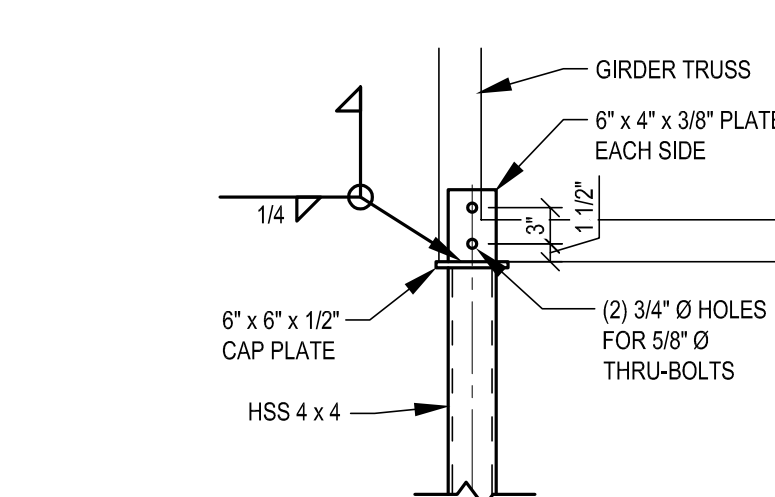
TRUSS BEARING DETAIL

SCALE: 3/4" = 1'-0"



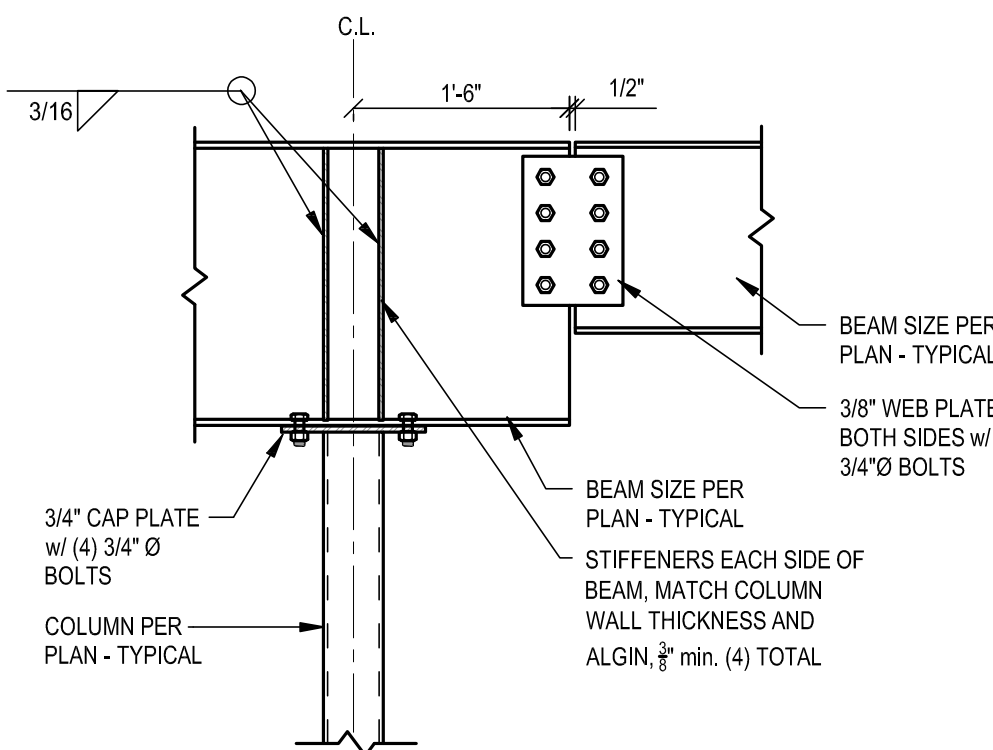
TYPICAL BEAM TO COLUMN CONNECTION

SCALE: 3/4" = 1'-0"



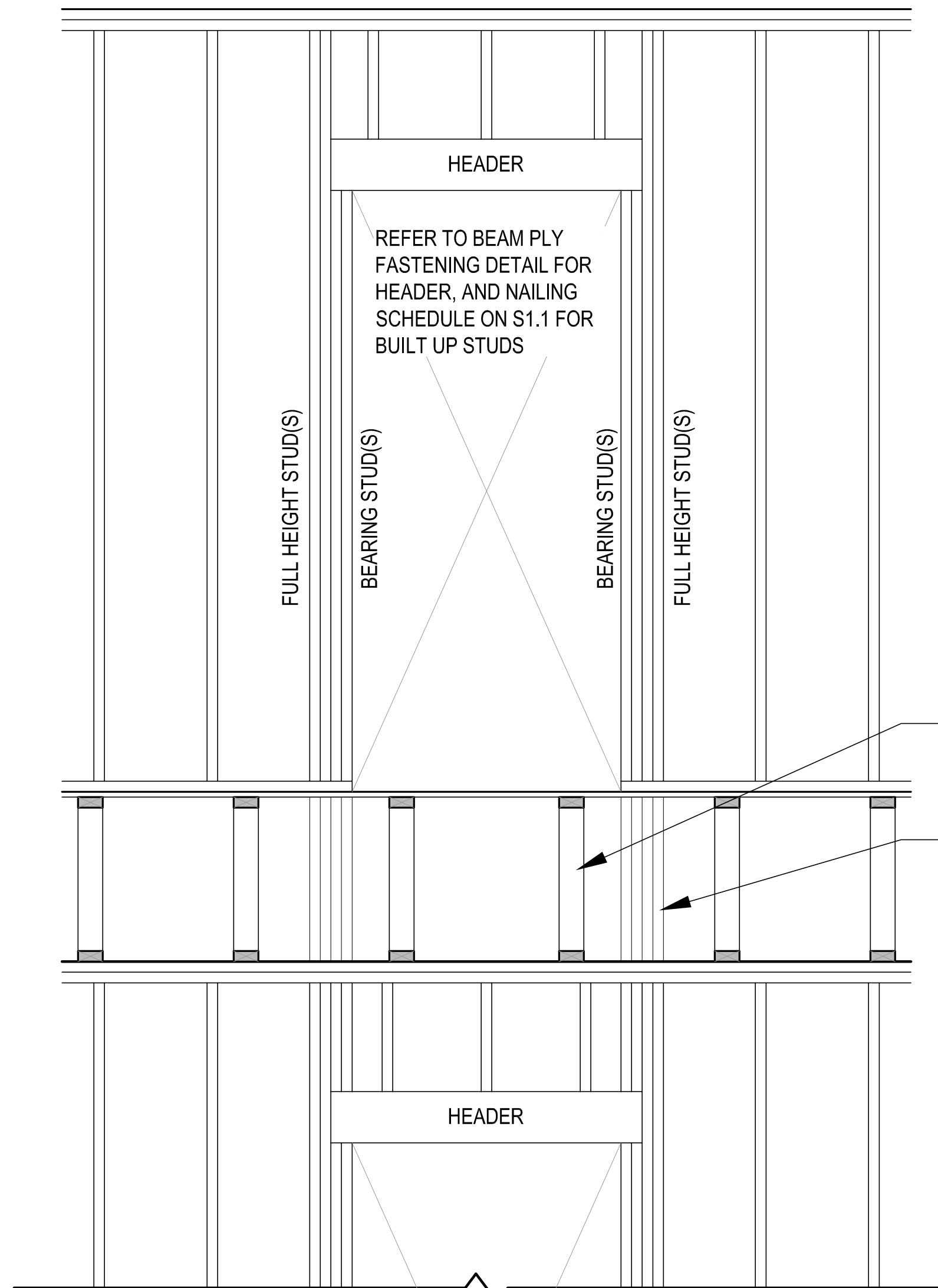
GIRDER TRUSS SADDLE

SCALE: 3/4" = 1'-0"



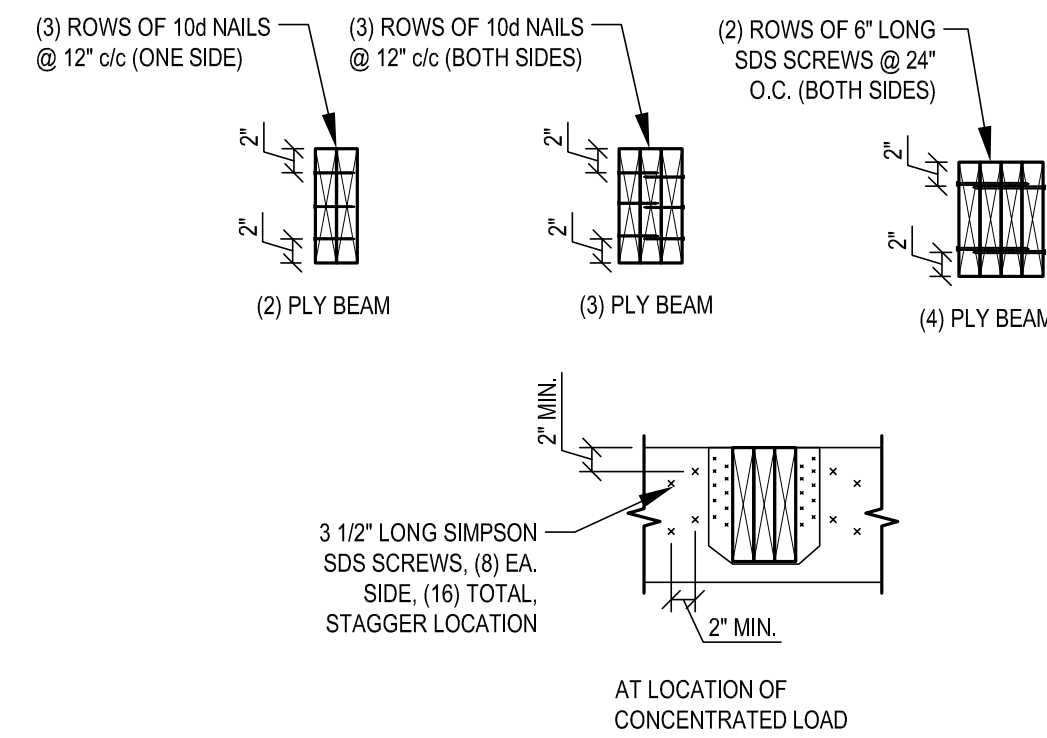
TYPICAL BEAM OVER COLUMN WITH BEAM SPLICE DETAIL

SCALE: 3/4" = 1'-0"



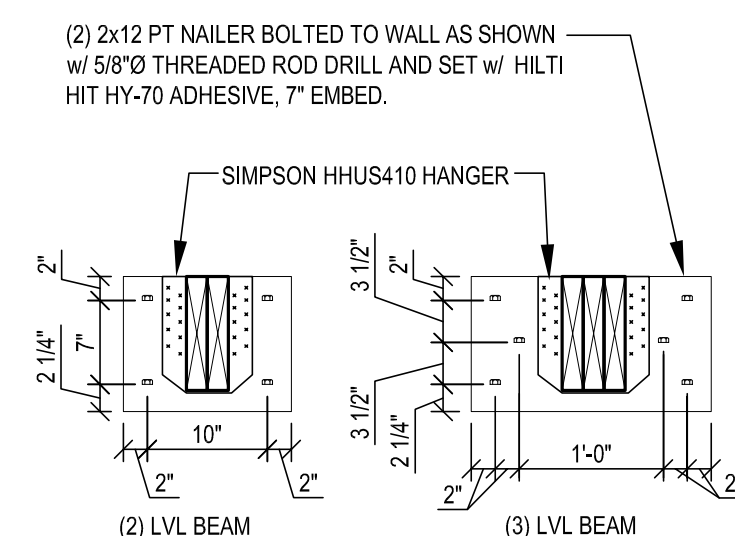
TYPICAL STUD WALL HEADER ELEVATION

SCALE: 1/2" = 1'-0"



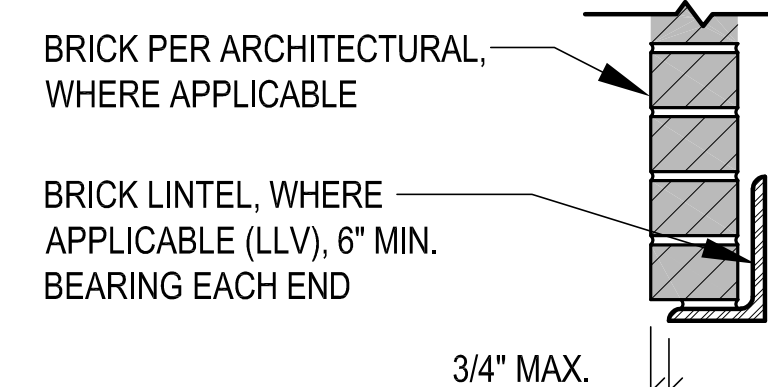
BEAM PLY FASTENING PATTERNS AND SPACING

SCALE: 3/4" = 1'-0"



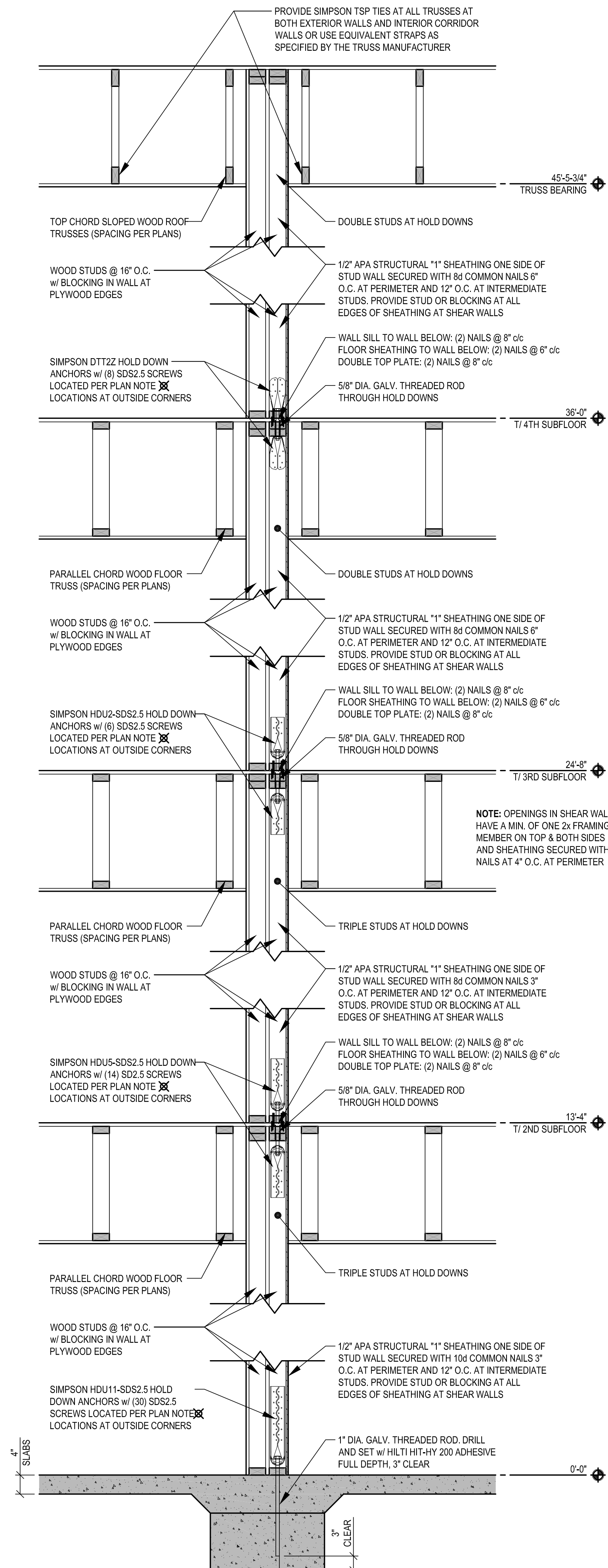
BEAM ATTACHMENT AT CMU WALL

SCALE: 3/4" = 1'-0"



LINTEL SECTION

NON-LOAD BEARING LINTELS FOR VARYING MATERIAL TYPES		
OPENING	STEEL ANGLES	BEARING
UP TO 3'-11" MASONRY OPENING	L 3 1/2" x 3 1/2" x 1/4"	4"
4'-0" TO 4'-11" MASONRY OPENING	L 4" x 3 1/2" x 5/16" (LLV)	4"
5'-0" TO 5'-11" MASONRY OPENING	L 5" x 3 1/2" x 5/16" (LLV)	8"
6'-0" TO 6'-11" MASONRY OPENING	L 6" x 3 1/2" x 5/16" (LLV)	8"



SHEAR WALL SECTION

SCALE: 3/4" = 1'-0"

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FRAMING DETAILS

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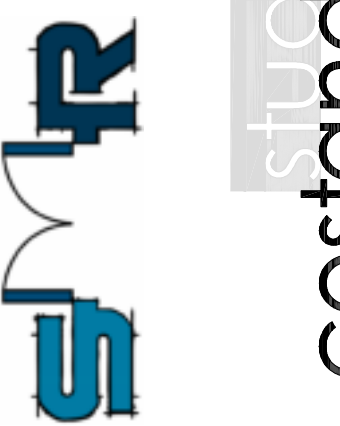
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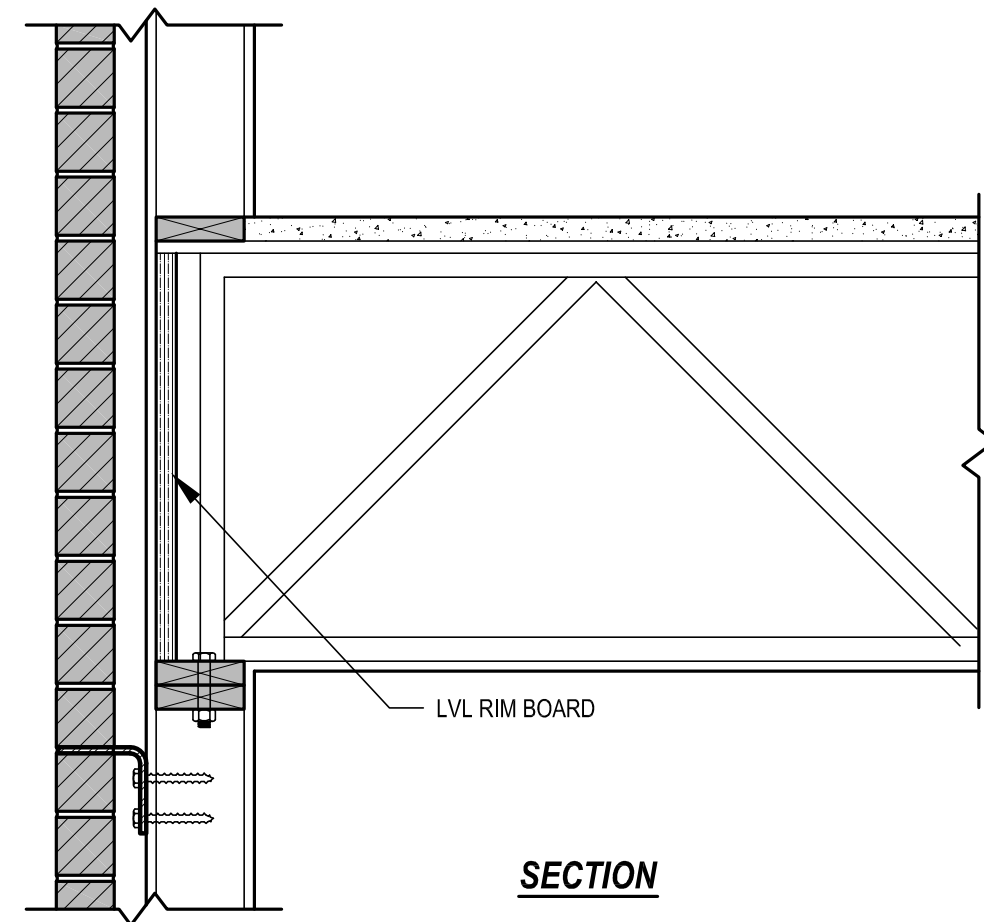
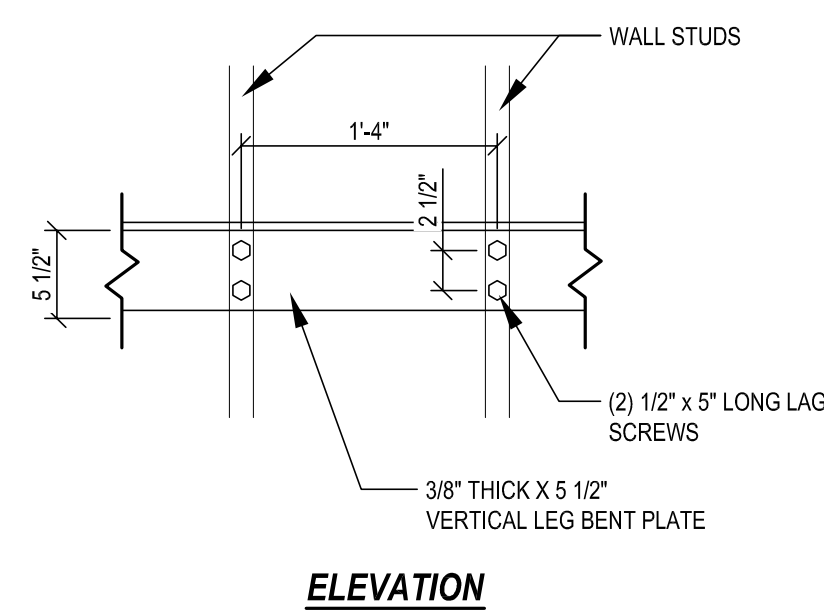
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SECOND FLOOR FRAMING PLAN

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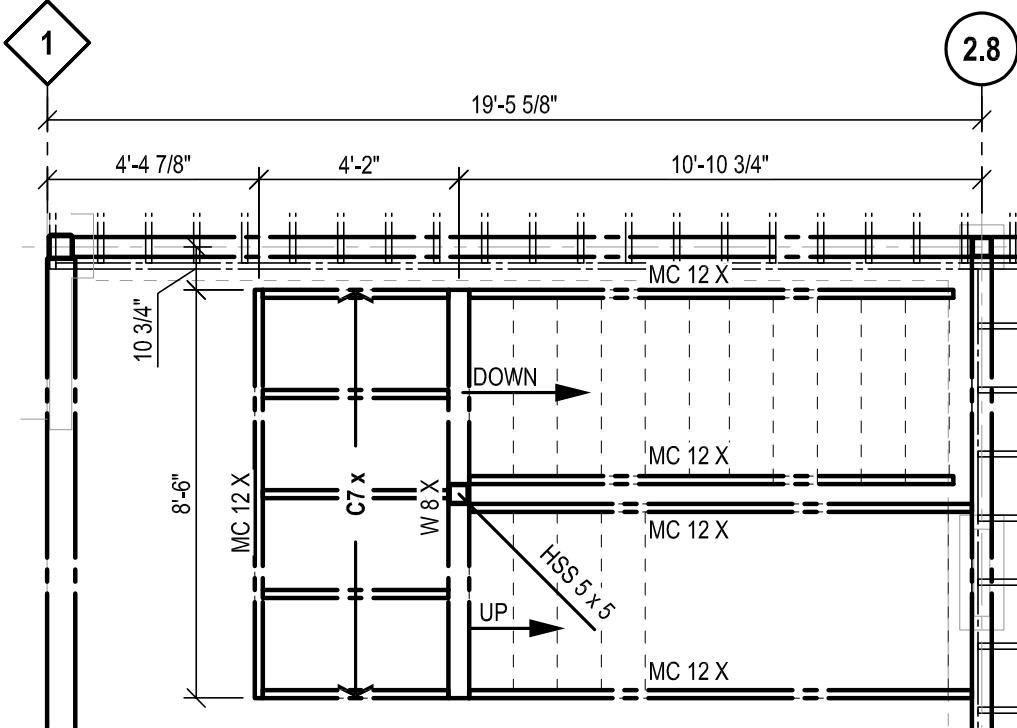
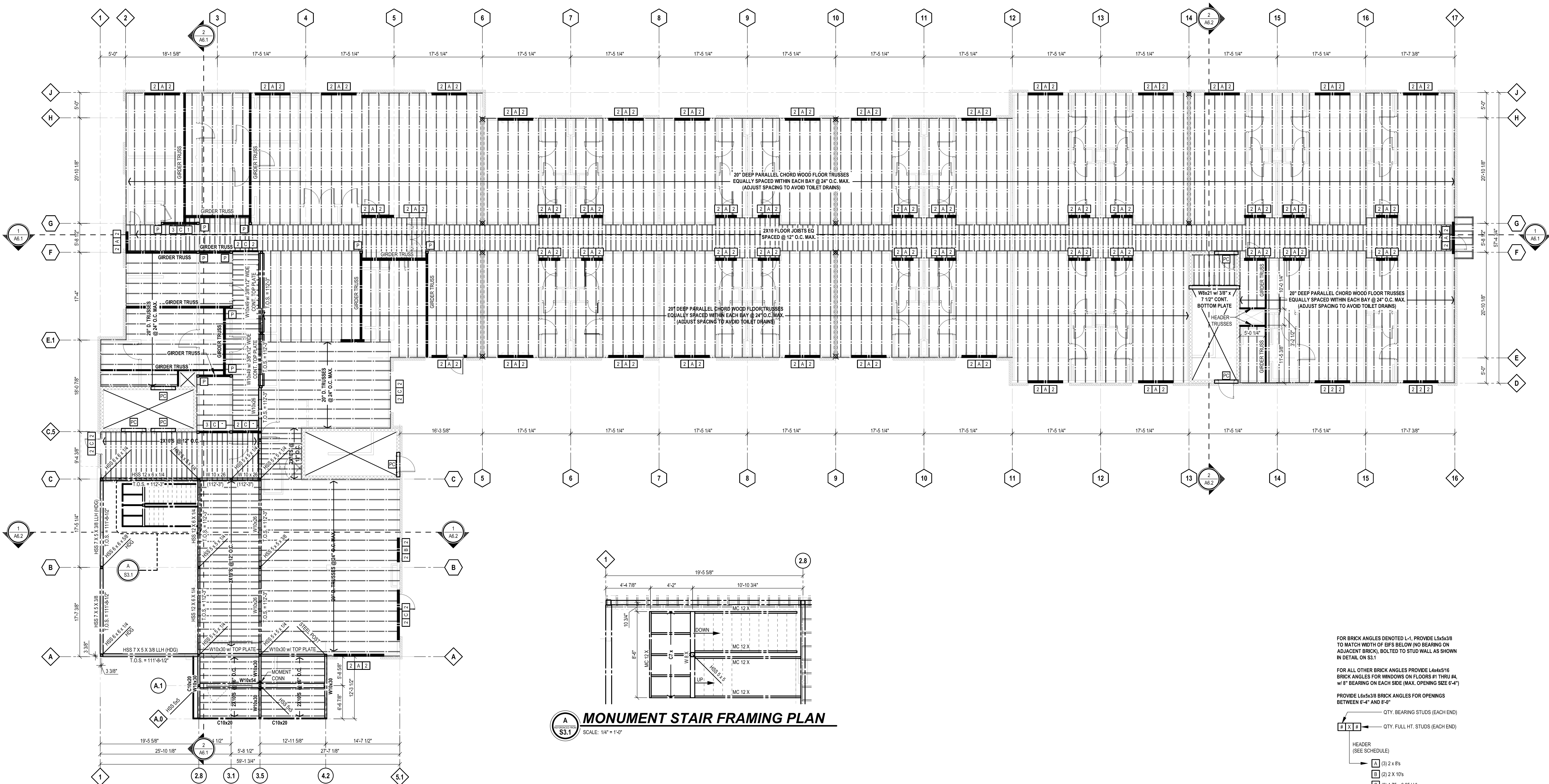
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S3.1



BOLTED BRICK ANGLE (L-1)

SCALE: 1" = 1'-0"



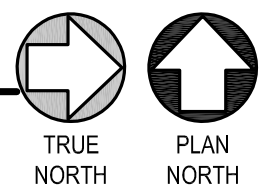
MONUMENT STAIR FRAMING PLAN

SCALE: 1/4" = 1'-0"

SECOND FLOOR FRAMING PLAN

SCALE: 1/8" = 1'-0"

NOTE: PROVIDE 3/4" MIN. THICK WOOD STRUCTURAL PANELS OR 1/2" THICK GYPSUM BOARD ALONG SELECTED TRUSSES TO DIVIDE CONCEALED SPACES INTO 160 C.F. MAX SIZE COMPARTMENTS PER IRC 718.2 / 718.3 AND NFPA 8.15.1.1



FOR BRICK ANGLES DENOTED L-1, PROVIDE L6x5x3/8 TO MATCH WIDTH OF EPS BELOW (NO BEARING ON ADJACENT BRICK). BOLTED TO STUD WALL AS SHOWN IN DETAIL ON S3.1

FOR ALL OTHER BRICK ANGLES PROVIDE L6x4x5/16 BRICK ANGLES FOR WINDOWS ON FLOORS #1 THRU #4, w/ 8" BEARING ON EACH SIDE (MAX. OPENING SIZE 6'-4")

PROVIDE L6x5x3/8 BRICK ANGLES FOR OPENINGS BETWEEN 6'-4" AND 6'-0"

QTY. BEARING STUDS (EACH END)

QTY. FULL HT. STUDS (EACH END)

HEADER (SEE SCHEDULE)

A (2) 2 x 8's

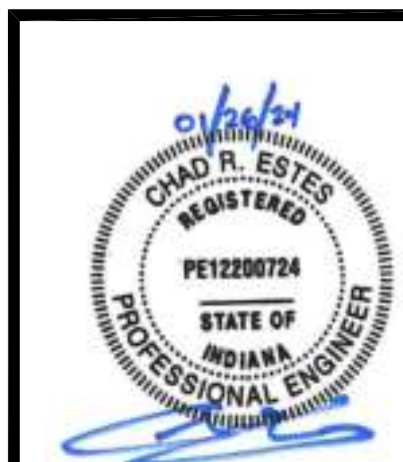
B (2) 2 x 10's

C (3) 1.75 x 9.25 LVL

PC 8 x 8 PRECAST LINTEL w/ (2) #4 T&B

□ DENOTES SOLID BEARING UNDER GIRDER TRUSS OR OTHER POINT LOAD

LEVEL 4: (2) 2x6
LEVEL 3: (3) 2x6
LEVEL 2: (3) 2x6



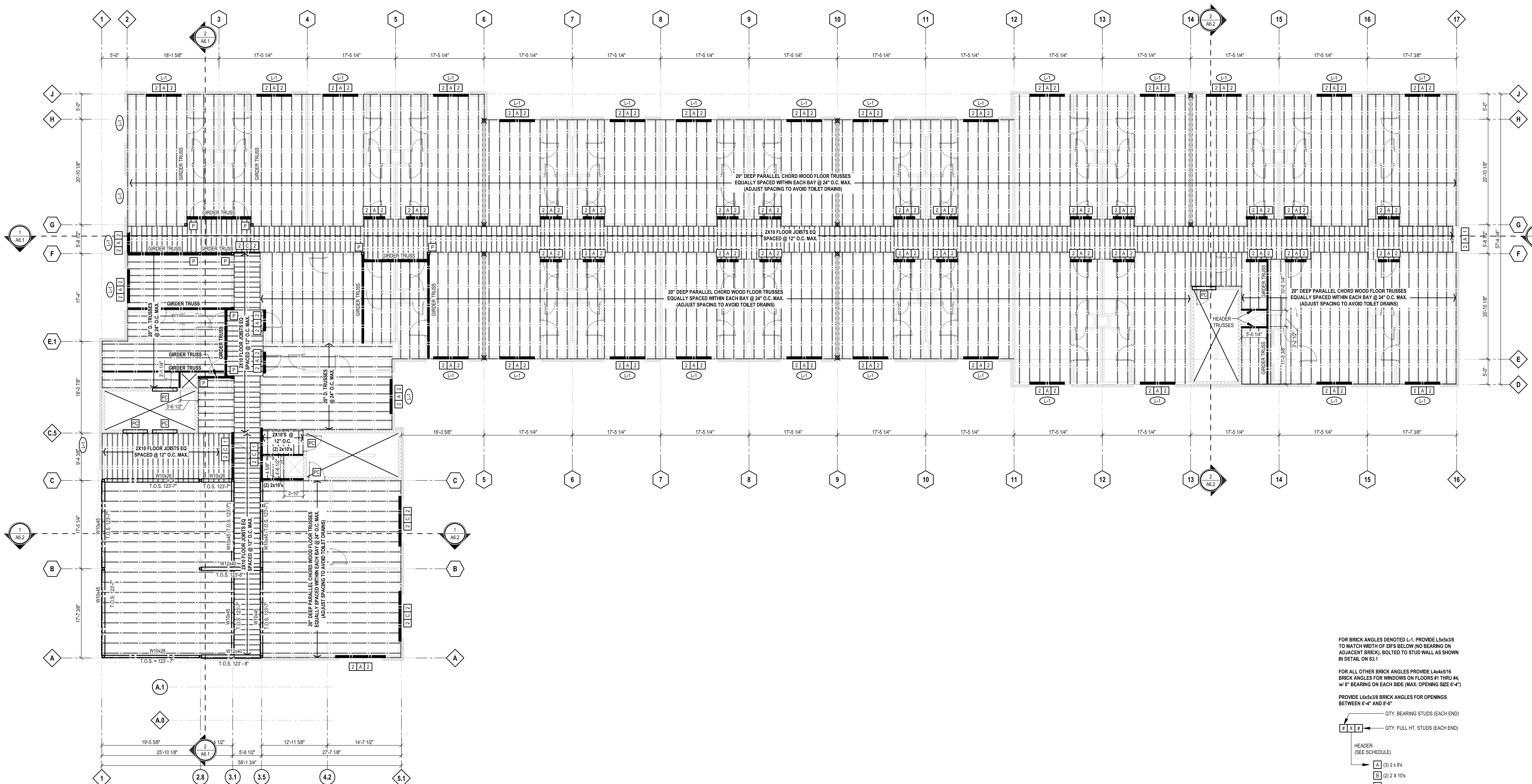
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THIRD FLOOR FRAMING PLAN



THIRD FLOOR FRAMING PLAN

SCALE: 1/8" = 1'-0"

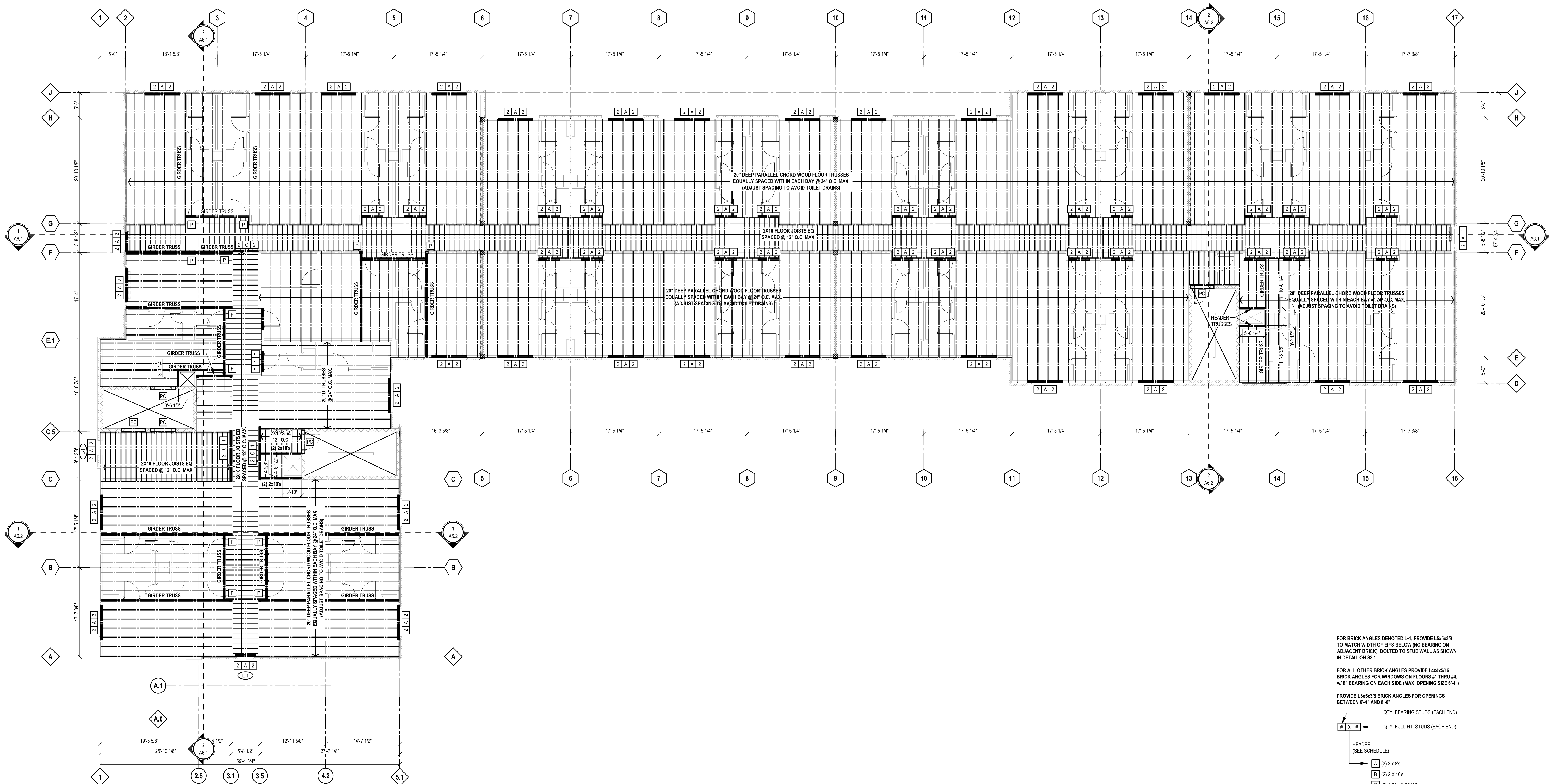
NOTE: PROVIDE 3/4" MIN. THICK WOOD STRUCTURAL PANELS OR 1/2" THICK GYPSUM BOARD ALONG SELECTED TRUSSES TO DIVIDE CONCEALED SPACES INTO 160 C.F. MAX SIZE COMPARTMENTS PER IBC 716.2 / 716.3 AND NFPA 8.15.1.1

- FOR BRICK ANGLES DENOTED L-1, PROVIDE L6x5x3/8 TO MATCH WIDTH OF EPS BELOW (NO BEARING ON ADJACENT BRICK), BOLTED TO STUD WALL AS SHOWN IN DETAIL ON S3.1
- FOR ALL OTHER BRICK ANGLES PROVIDE L4x4x5/16 BRICK ANGLES FOR WINDOWS ON FLOORS #1 THRU #4, w/ 8" BEARING ON EACH SIDE (MAX. OPENING SIZE 6'-4")
- PROVIDE L6x5x3/8 BRICK ANGLES FOR OPENINGS BETWEEN 6'-4" AND 8'-0"
- QTY. BEARING STUDS (EACH END)
- QTY. FULL HT. STUDS (EACH END)
- HEADER (SEE SCHEDULE)
- A (3) 2 x 8's
- B (2) 2 x 10's
- C (3) 1.75 x 9.25 LVL
- PC 8 x 8 PRECAST LINTEL w/ (2) #4 T&B
- DENOTES SOLID BEARING UNDER GIRDER TRUSS OR OTHER POINT LOAD
- LEVEL 4: (2) 2x6
- LEVEL 3: (3) 2x6
- LEVEL 2: (3) 2x6

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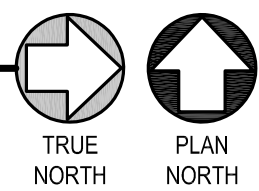
S3.2



FOURTH FLOOR FRAMING PLAN

SCALE: 1/8" = 1'-0"

NOTE: PROVIDE 3/4" MIN. THICK WOOD STRUCTURAL PANELS OR 1/2" THICK GYPSUM BOARD ALONG SELECTED TRUSSES TO DIVIDE CONCEALED SPACES INTO 160 C.F. MAX SIZE COMPARTMENTS PER IBC 716.2 / 716.3 AND NFPA 8.15.1.1



FOR BRICK ANGLES DENOTED L-1, PROVIDE L6x5x3/8 TO MATCH WIDTH OF EPS BELOW (NO BEARING ON ADJACENT BRICK), BOLTED TO STUD WALL AS SHOWN IN DETAIL ON S3.1

FOR ALL OTHER BRICK ANGLES PROVIDE L4x4x5/16 BRICK ANGLES FOR WINDOWS ON FLOORS #1 THRU #4, w/ 8" BEARING ON EACH SIDE (MAX. OPENING SIZE 6'-4")

PROVIDE L6x5x3/8 BRICK ANGLES FOR OPENINGS BETWEEN 6'-4" AND 8'-0"

QTY. BEARING STUDS (EACH END)

QTY. FULL HT. STUDS (EACH END)

HEADER (SEE SCHEDULE)

- A (3) 2 x 8's
- B (2) 2 x 10's
- C (3) 1.75 x 9.25 LVL
- D 8 x 8 PRECAST LINTEL w/ (2) #4 T&B

LEVEL 4: (2) 2x6
LEVEL 3: (3) 2x6
LEVEL 2: (3) 2x6



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FOURTH FLOOR FRAMING PLAN

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S3.3



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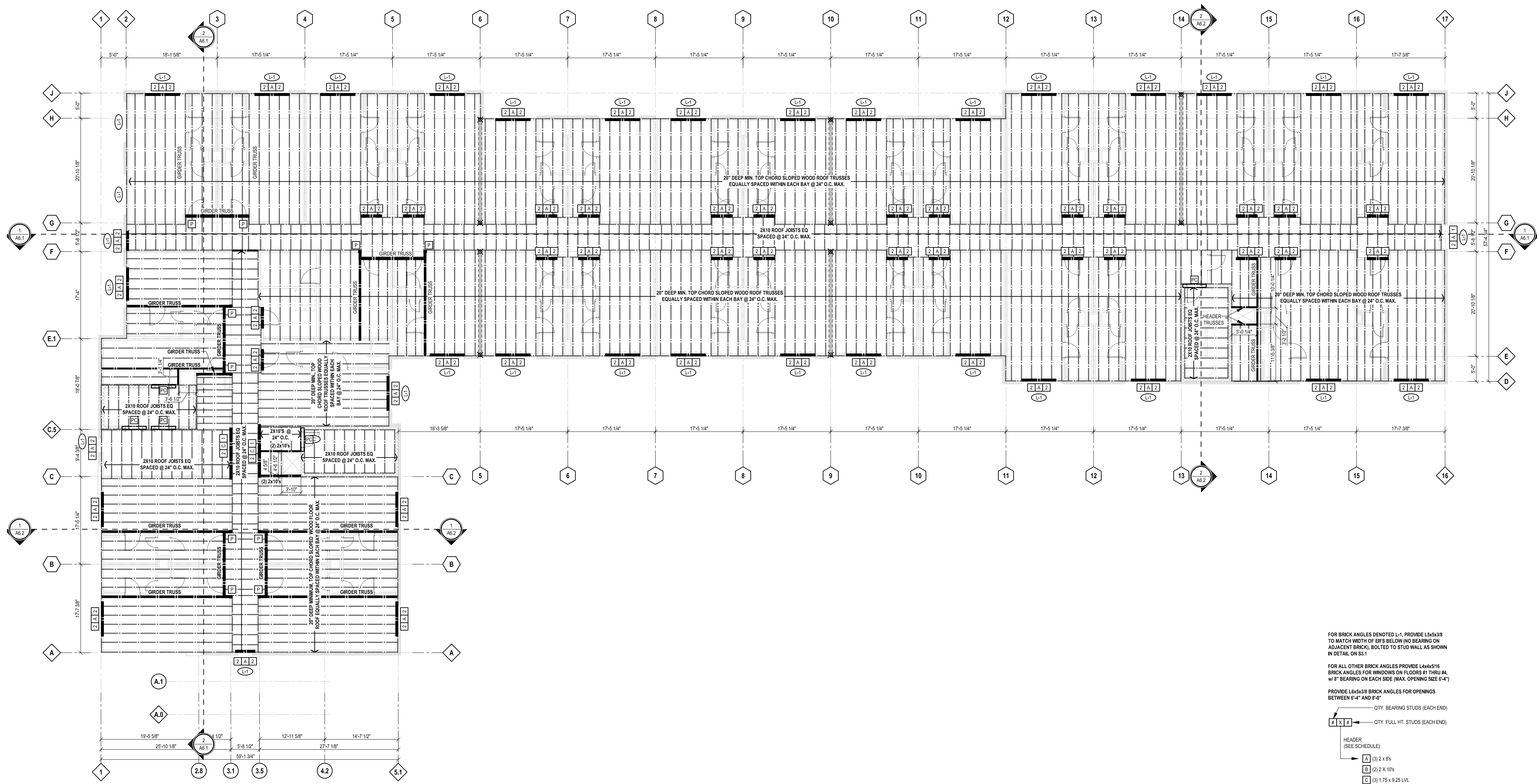
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ROOF FRAMING PLAN

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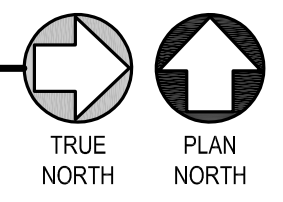
S3.4



ROOF FRAMING PLAN

SCALE: 1/8" = 1'-0"

NOTE: PROVIDE 3/4" MIN. THICK WOOD STRUCTURAL PANELS OR 1/2" THICK GYPSUM BOARD ALONG SELECTED TRUSSES TO DIVIDE CONCEALED SPACES INTO 160 C.F. MAX SIZE COMPARTMENTS PER IBC 716.2 / 716.3 AND NFPA 8.15.1.1



- FOR BRICK ANGLES DENOTED L-1, PROVIDE L6x5x3/8 TO MATCH WIDTH OF EPS BELOW (NO BEARING ON ADJACENT BRICK), BOLTED TO STUD WALL AS SHOWN IN DETAIL ON S3.1
- FOR ALL OTHER BRICK ANGLES PROVIDE L4x4x1/6 BRICK ANGLES FOR WINDOWS ON FLOORS #1 THRU #4, w/ 8" BEARING ON EACH SIDE (MAX. OPENING SIZE 6'-4")
- PROVIDE L6x5x3/8 BRICK ANGLES FOR OPENINGS BETWEEN 6'-4" AND 8'-0"
- QTY. BEARING STUDS (EACH END)
 - QTY. FULL HT. STUDS (EACH END)
 - HEADER (SEE SCHEDULE)
 - A (3) 2 x 8's
 - B (2) 2 x 10's
 - C (3) 1.75 x 9.25 LVL
 - PC 8 x 8 PRECAST LINTEL w/ (2) #4 T&B
- DENOTES SOLID BEARING UNDER GIRDER TRUSS OR OTHER POINT LOAD
- LEVEL 4: (2) 2x6
LEVEL 3: (3) 2x6
LEVEL 2: (3) 2x6



Planned Unit Development (PUD)

Committee Staff Report

Meeting Date: May 1, 2024

DEPARTMENT CONTACT:

Gabrielle Herin (hering@fishers.in.us)

CASE NUMBER:

PUD-24-3

PETITIONER:

Jason Miller (jmiller@rmasurveying.com)

PROPERTY ADDRESS/LOCATION:

19-11-26-00-00-011.703

REQUEST: Request to approve the architecture for a new hotel within the Saxony PUD, generally located west of Minden Drive and south of Erlen Drive.

APPLICABLE REGULATIONS:

Saxony PUD and UDO where applicable

EXISTING ZONING:

Saxony PUD

FISHERS 2040:

Regional Mixed Use

LOCATION MAP



STAFF RECOMMENDATION

☐ Approve

☐ Approve with Conditions

☒ Continue

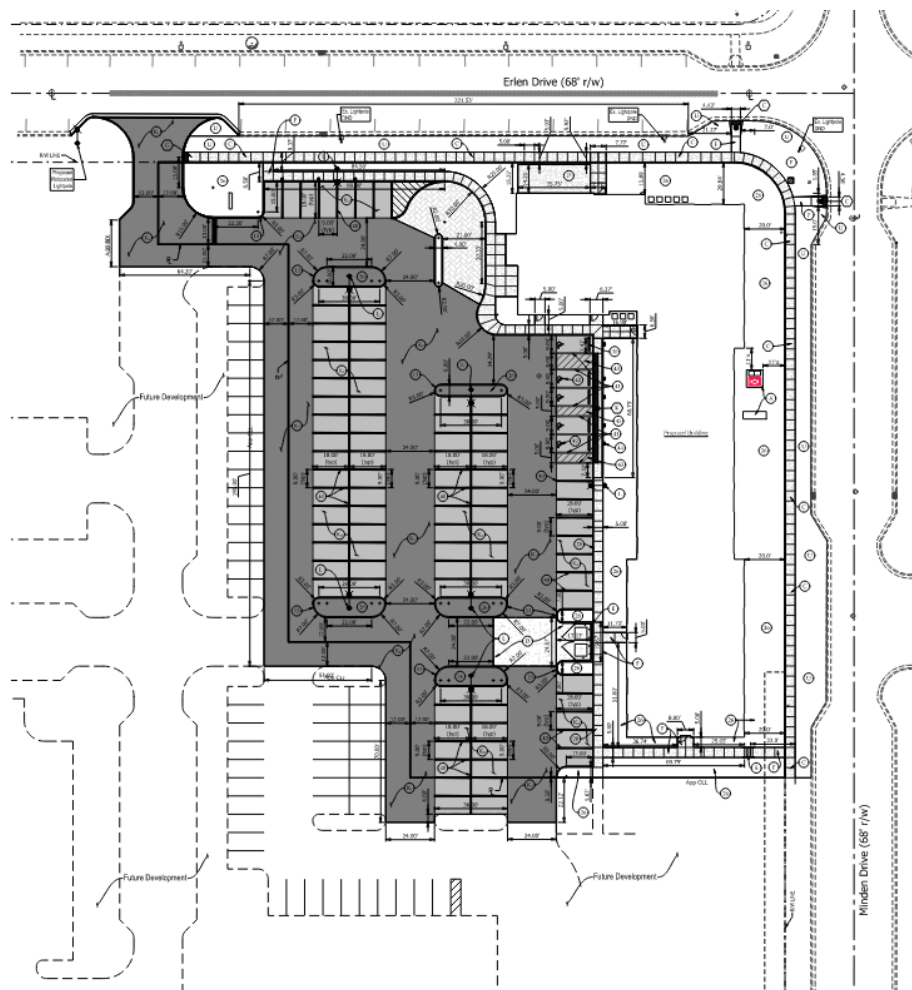
☐ Deny

ZONING HISTORY:

The property is currently zoned PUD-M under the Saxony PUD. The original PUD ordinance (#021803A) was adopted in June 2003 by the Town Council, but there have been updates since. The most recent ordinance (#101617B) was adopted by the City Council in November 2017. Where the PUD is silent the City's Unified Development Ordinance (UDO) applies.

PETITION OVERVIEW:

The petitioner requests approval of the architecture for a proposed IHG hotel called Atwell Suites. The 4 story building will be approximately 70,000 square feet. There are approximately 90 parking spaces proposed. Also included in the site plan is parking that may be shared with the rest of the development. The subject site is generally located at the southwest corner of Erlen Drive and Minden Drive.



Site Plan



ISO VIEW: NORTHWEST CORNER LOOKING SOUTHEAST

Northwest corner elevation looking southeast.



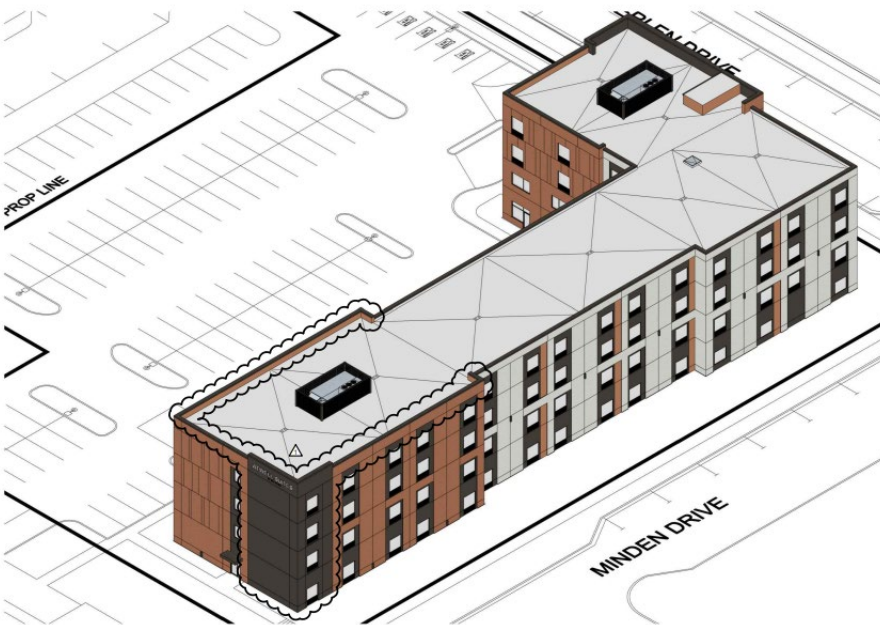
ISO VIEW: NORTHEAST CORNER LOOKING SOUTHWEST

Northeast corner elevation looking southwest.



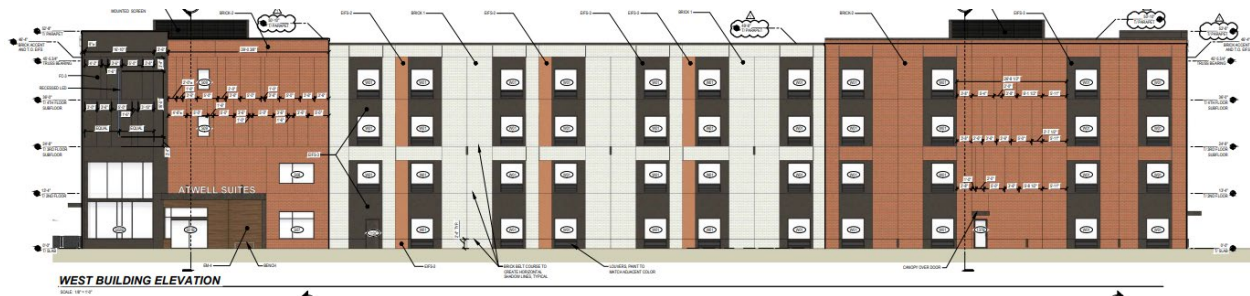
ISO VIEW: SOUTHWEST CORNER LOOKING NORTHEAST

Southwest corner elevation looking northeast.

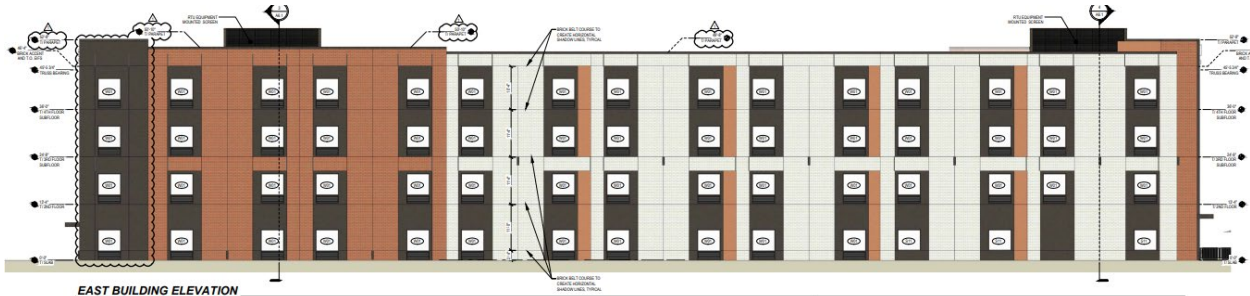


ISO VIEW: SOUTHEAST CORNER LOOKING NORTHWEST

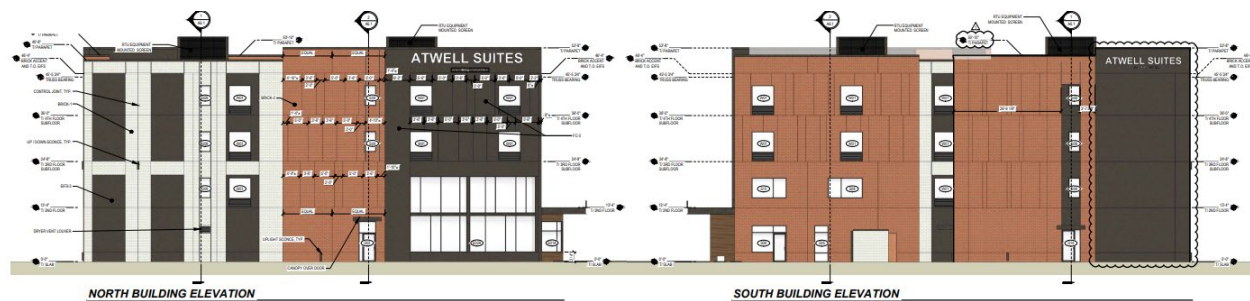
Southeast corner elevation looking northwest.



West elevation



East elevation



North (left image) and South elevation (right image)

EXTERIOR FINISH LEGEND				
TAG #	MATERIAL	COLOR		TOTAL SF = 34,043 SF
BRICK-1	UTILITY BRICK		COLOR TO MATCH DRYVIT "DOVER SKY" (SHERWIN WILLIAMS CHEVIOT SW9503)	9,598 SF (28.2%)
BRICK-2	UTILITY BRICK		COLOR TO MATCH DRYVIT "IRISH COFFEE" (SHERWIN WILLIAMS SPICED CIDER SW7702)	13,660 SF (40.1%)
EIFS-3	EIFS		COLOR TO MATCH SHERWIN WILLIAMS IRON ORE SW7069	7,670 SF (22.5%)
EIFS-2	EIFS		COLOR TO MATCH DRYVIT "IRISH COFFEE" (SHERWIN WILLIAMS SPICED CIDER SW7702)	948 SF (2.8%)
FC-3	FIBER CEMENT		COLOR TO MATCH SHERWIN WILLIAMS IRON ORE SW7069	1,865 SF (5.5%)
EM-4	PORCELAIN TILE		CMC MOTIVATE WALNUT MATTE FINISH	301 SF (0.9%)

Legend showing types and colors of materials used



3D VIEW: EYE LEVEL LOOKING AT NORTHWEST CORNER

Eye level elevation of northwest corner with landscaping



3D VIEW: EYE LEVEL LOOKING AT NORTHEAST CORNER

Eye level elevation of northeast corner with landscaping



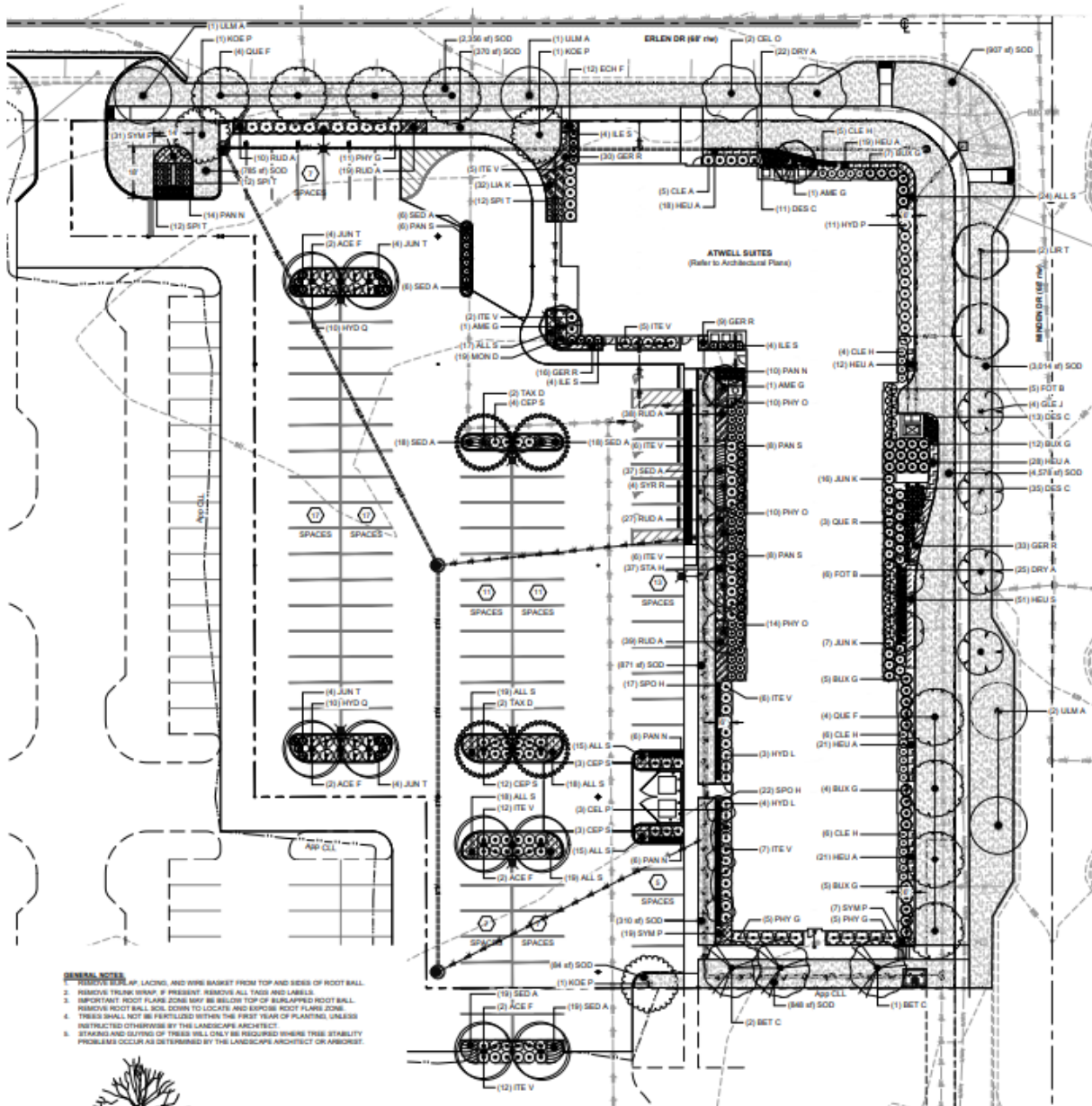
3D VIEW: EYE LEVEL LOOKING AT SOUTHWEST CORNER

Eye level elevation of southwest corner with landscaping

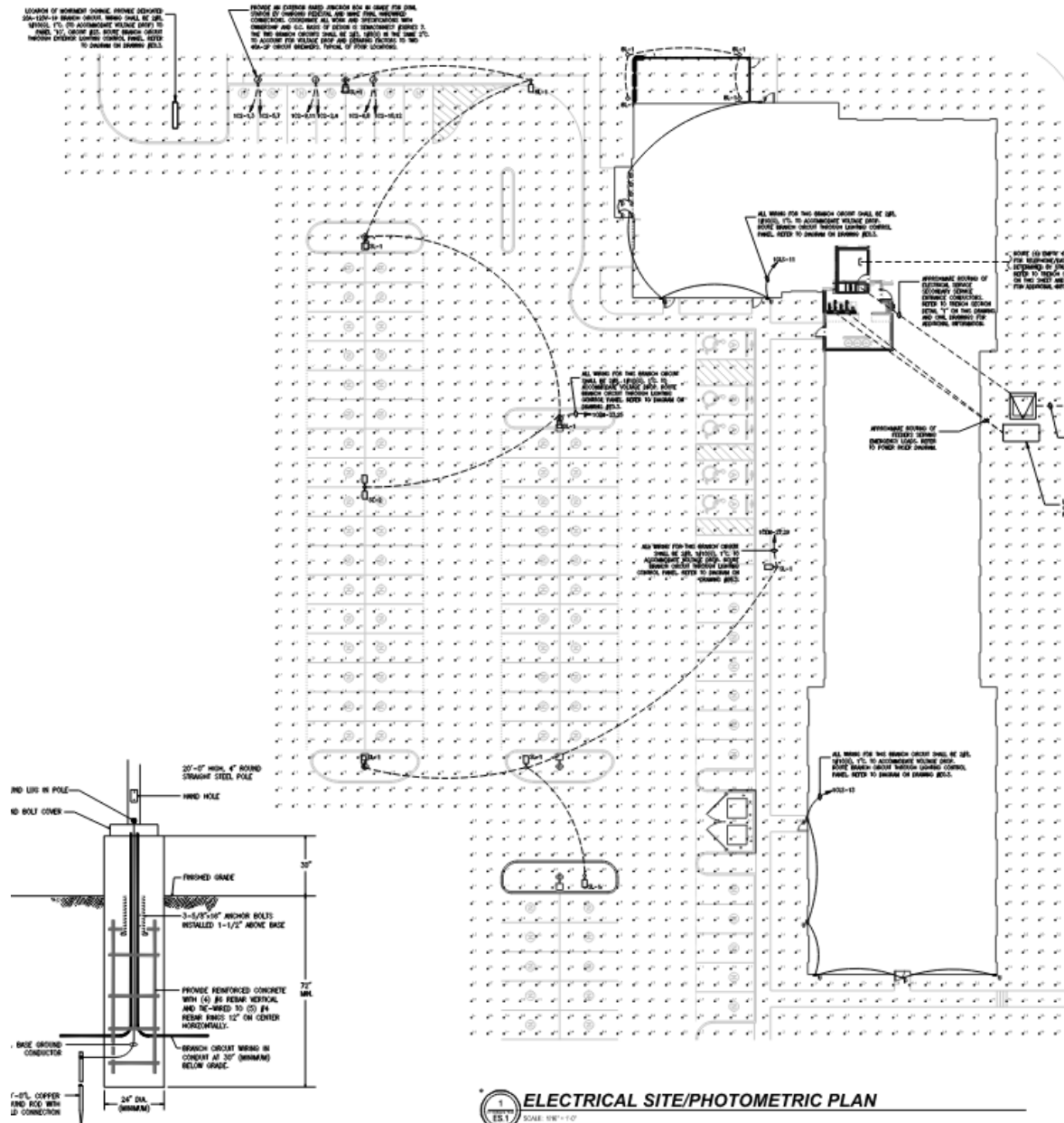


3D VIEW: EYE LEVEL LOOKING AT SOUTHEAST CORNER

Eye level elevation of southeast corner with landscaping



Landscape Plan



Lighting Plan

DETAILS:

Materials used on this project are as follows. The location of these materials is called out on the elevations.

Utility Brick (White)	Utility Brick (Red)
EIFS (Black)	EIFS (Red)
Fiber Cement (Black)	Porcelain Tile (Brown)

ARCHITECTURAL STANDARDS:

Staff reviewed the elevations according to the UDO Section 6.3.5. Standards that are being met are identified with an “X”.

Cohesive Design

X	Maintain consistent and contiguous pedestrian environments across <u>developments</u> . Limit circuitous connections and maintain clear visibility.
X	Incorporate architectural features on all sides of a building façade facing a Public View.
X	Buildings must orient, frame, and/or direct pedestrian views to adjacent cultural buildings, <u>parks</u> , and plazas.
X	Integrate at least one (1) material change, color variation, or horizontal reveal for every 12-vertical ft. of building façade; vertical spacing may be averaged over façade.
X	Integrate at least one (1) material change, color variation, or vertical reveal every 50-horizontal ft. of building façade; horizontal spacing may be averaged over façade elevation.

Building Scale

X	Development should consider the scale of surrounding buildings, including relationships to existing residential areas, as well as an appropriate height, mass, and form scaled for the built environment.
X	For buildings with façades longer than 200', reduce massing of buildings by grouping or incorporating smaller tenant spaces along the commercial façade, or by incorporating at two (2) modulations with depth at least 5% of the total façade length., and a width of at least 20% of the façade length.
	Use Pedestrian Scale and landscape design elements such as specialty lighting, awnings, trees or other site elements to visually relate and transition multi-story buildings (or equivalent) to the ground plane.
	Consistently incorporate at least three (3) architectural features into the building design that are Pedestrian Scale, to include: fenestration patterns; architectural elements such as ledges, lighting, or canopies; material or pattern banding; or detailing.
	For buildings facing local and collector roadways, off-street parking must be located to the side of or behind buildings with only one (1) row of off-street parking in front of the building façade.

Building Form – Façade

	Incorporate at least one (1) type of the following modulations in the façade plane, including but not limited to: projections, recesses, and step backs that articulate wall planes and break up building mass. Examples include but are not limited to: columns with trim or accent materials, change in finished material depths, building overhangs, and inset features and materials such as false windows or fenestration with architectural accents.
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	Qualifying modulation must be at least 12" in depth, be at least 14" in width or height (whichever is narrowest), and occur in total for 20% of overall façade elevation. For buildings with façades less than 150', horizontal modulation must occur no less than every 30' For buildings with façades greater than or equal to 150', horizontal modulation must occur no less than every 50'.
	Facades facing Public View shall Incorporate visual and physical distinctions in the building design that enhance building forms, articulate façades, identify entries, integrate Pedestrian Scale, and visually anchor the building to the ground or street level
	For at least 30% of applicable façades, use any combination of concrete, masonry, stone, or unique variation of color, texture, or material, at least 10" in height, around the base of the building. May alternatively incorporate other architectural features such as ledges, façade reveals, ground level fenestration, raised planters, or landscaping elements within 3' of finished grade.
	Where building designs incorporate multiple stories, or multiple floor height equivalents, integrate at least one (1) field or accent color, material, or architectural feature used on lower stories, on the upper stories.
	Building designs with multiple stories must provide proportionally taller ground-level façades adjacent to public roadways and public spaces. Provide a floor-to-ceiling height, or floor-to-floor height of 10' to 16'.
	Incorporate doors and windows for at least 40% of applicable 1st floor façade, or provide faux window and door treatments that incorporate at least two (2) of the following: material changes, reveals in conjunction with color or material change, qualifying modulation such as recessed areas, architectural trellis, awnings and canopies over access areas, detached structures such as pergola, or similar architectural features and details. Big box and buildings in industrial districts may limit applicable façade area to 30'. around public entries

Building Form – Roof

	Building roof types, forms, and elements should provide variation and interest to building profiles and contribute to the architectural identity of the buildings.
	Buildings with rooflines 50' in length or greater must incorporate roofline and parapet variations. Variations may include step-downs, step-backs, other modulation, or architectural features such as cornices, ledges, or columns, and must occur in total combination for at least 20% of the façade length. May be averaged over entire façade, but may not exceed 75' without a break.
	All developments 1,000 sf or larger: along arterial roadways and pedestrian areas, the design must provide a minimum 20' building elevation to include average parapet height, ridge of a pitched roof, or tower/turret type elements at least 20% in total of overall façade width.
	For flat roof: incorporate primary and secondary roof elements including but not limited to: multiple material types along parapets, multiple parapet elevations with at least a 3' change in elevation, or modulation of at least 3' in the parapet height, such as along entryway overhangs. Qualifying elements must exist for at least 20% the length of applicable façades in Public View. May also incorporate secondary roof types, such as hip roofs along overhangs.

NA	For sloped roofs, incorporate at least two (2) of any one (1) roof element, including but not limited to: valleys, ridges, or gables. Qualifying elements in total must exist for at least 20% of applicable façade roof area and be visible from the same façade elevation. May also incorporate other roof styles, such as parapet walls over entryway features.
	Provide variation in roof profile over façade modulation and/or articulation over façade material/color transitions. Options include, but are not limited to: varying parapet heights; two (2) or more roof planes; continuation of façade modulation through roof lines; dormers; lookouts; overhang eaves; sloped roofs; or cornice work.

Architectural Elements

X	Provide at least three (3) detailing elements that transition façade material changes or integrate Pedestrian Scale elements, such as doorways, windows, or material banding, at the base of the building. Examples include but are not limited to: cornice work around primary entries, decorative caps on brick or stone banding, architectural canopies over entries, or decorative lintels above the first-floor windows.
X	Provide building overhangs or other projections such as canopies which articulate the building façade and provide temporary relief from inclement weather. At a minimum, an overhang or projection is required within 20' of all public entryways, must be at least 3' in depth from the point of entry, and be least 6' in length. Entryways with vestibules or other permanent enclosed transition space are exempt.
X	Provide details that emphasize focal elements such as public entries, building corners, or public spaces. Examples include but are not limited to: columns, quoin or rustication, canopies over entries, lintels, transom windows, or modulation of the roof plane. At least one (1) focal element is required and must be accented with a unique combination of color, texture, materials, or modulation in the wall or roof plane.
X	To avoid blank wall segments when visible from a roadway or public space, use any combination of standards from Building Form, Architectural Elements, or Material sections to provide pattern, color, or material variation on all wall segments. Must not exceed 30-ft. horizontally or vertically without building variation.
	Roof access shall be located within the interior space of the building to eliminate exterior ladders for roof access.
	Mechanical and utility equipment shall be screened in accordance with Sec. 6.2.6. Mechanical & Utility Equipment.

Materials

X	Buildings with façades that face Public View shall use consistent material combinations, material quality, and architectural detailing.
X	For all façade elevations visible from Public View and facing residential zoning districts, shall use at least two (2) distinct field materials, colors, or material-color combinations on the building façade. *Applies when industrial buildings face arterial or collector roads, or facing public spaces.

X	Building façades visible from Public View shall incorporate an accent material on the 1st story of a multi-tenant building.
X	Where materials transition or terminate, provide detailing to express the natural appearance of the material. For example, wrap stone or stone-like products around visible corners to convey the appearance of mass, and not a thin veneer.
X	Textured concrete panels and prefabricated steel panels are prohibited as a finish material for building façades, except when used with a minimum of two (2) other qualifying field materials and meeting all other standard fenestration and material requirements.
NA	Reclaimed wood may be used as an accent material and shall be limited to architectural accent areas (i.e. building and window trim, architectural features and entrances, etc.). Reclaimed wood shall be of high quality materials, suitable for exterior use, and limited to 25% of the overall building coverage.
NA	Roll-up and drive-through doors are prohibited from Public View, unless they are integrated into the building design. Consider material variation and transitions, modulation, and other architectural features and standards for the design.
X	Use of neon or extremely bright colors as a primary color or large portion of wall area is prohibited.

Following are additional comments from Staff to provide context:

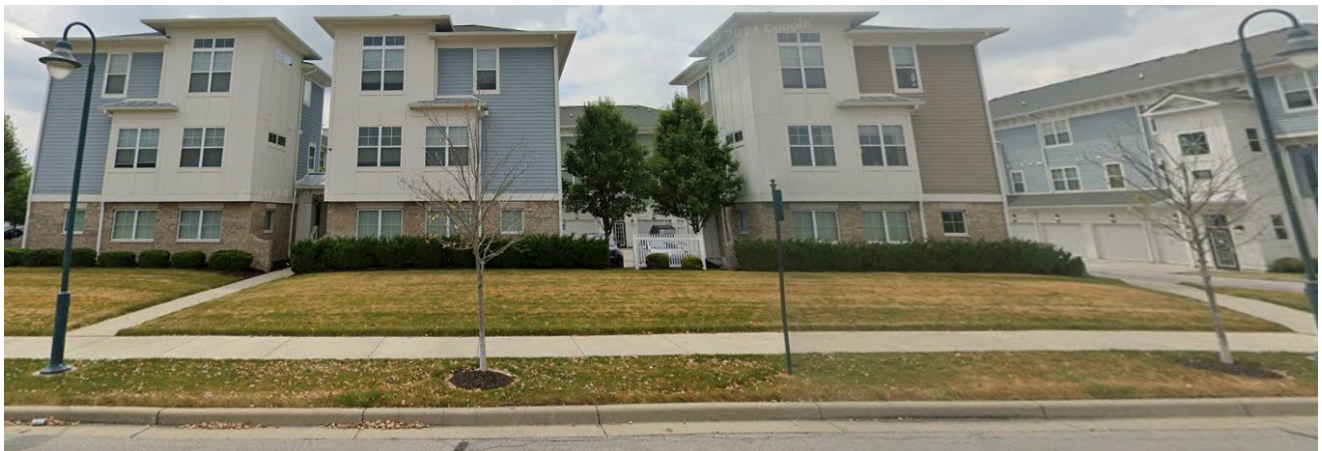
- Where there are large sections of red brick, please replace some of the red with white brick. It will provide additional color variation in those areas.
- Please include additional changes to the parapet plane with a black parapet on the northeast corner of the building.
- Please add a metal awning/ledge around entire first story facing the right of way. As an alternative, there could be a metal awning/ledge above each window on the first story. The awnings will help transition the building to the ground plane.
- As a suggestion, additional recessed LED lights could be added for visual interest, especially at night.

Staff would like the following documents:

- JPGs of each of the colored renderings
- Document without the clouded outline (showing where updates have been made to the architecture)
- Elevations of ground level up-lighting and 2nd story up-down lighting
- Elevations showing the night view of the lighting

SURROUNDING CHARACTER:

Below are examples of the existing buildings in this area. There are multi-family developments to the east, south and west.

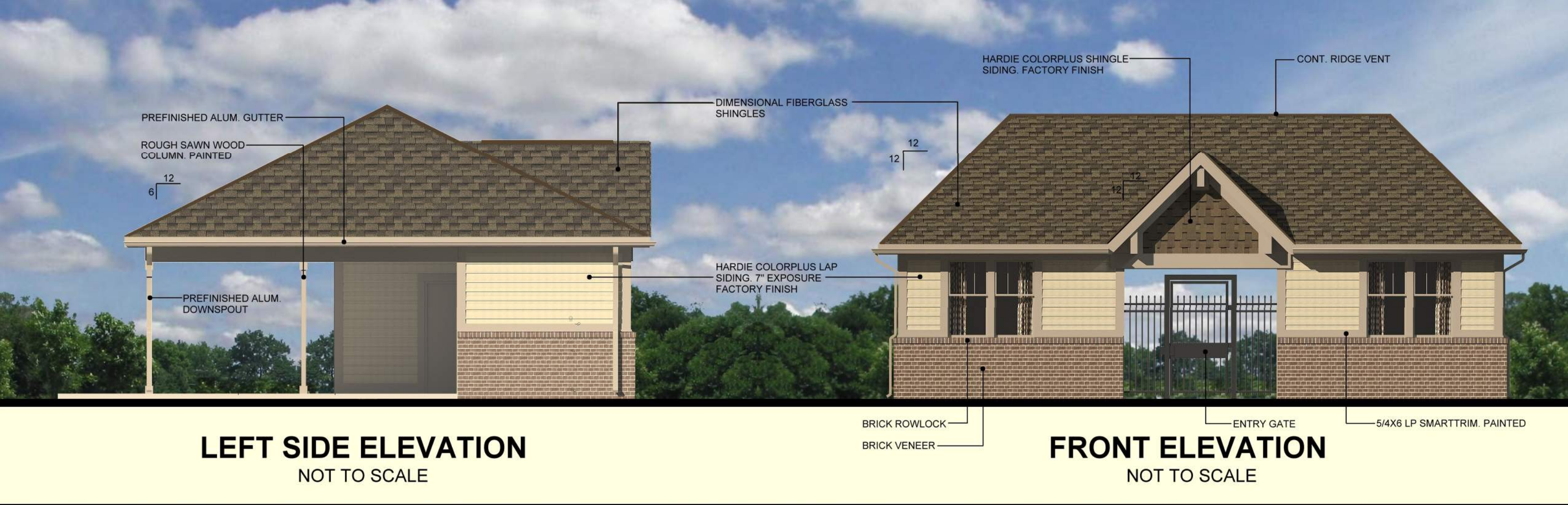


STAFF RECOMMENDATION:

Staff requests feedback from the PUD Committee and recommend continuation to the June 5 meeting allowing Staff additional time to meet following feedback from the PUD Committee to ensure compliance with both the Saxony PUD and the City's Unified Development Ordinance.

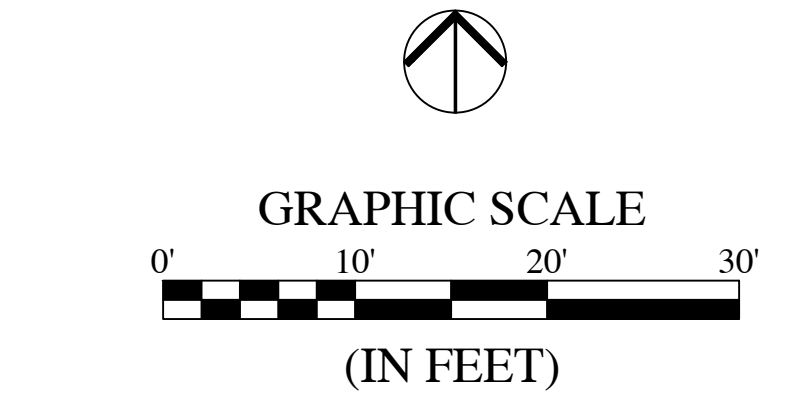
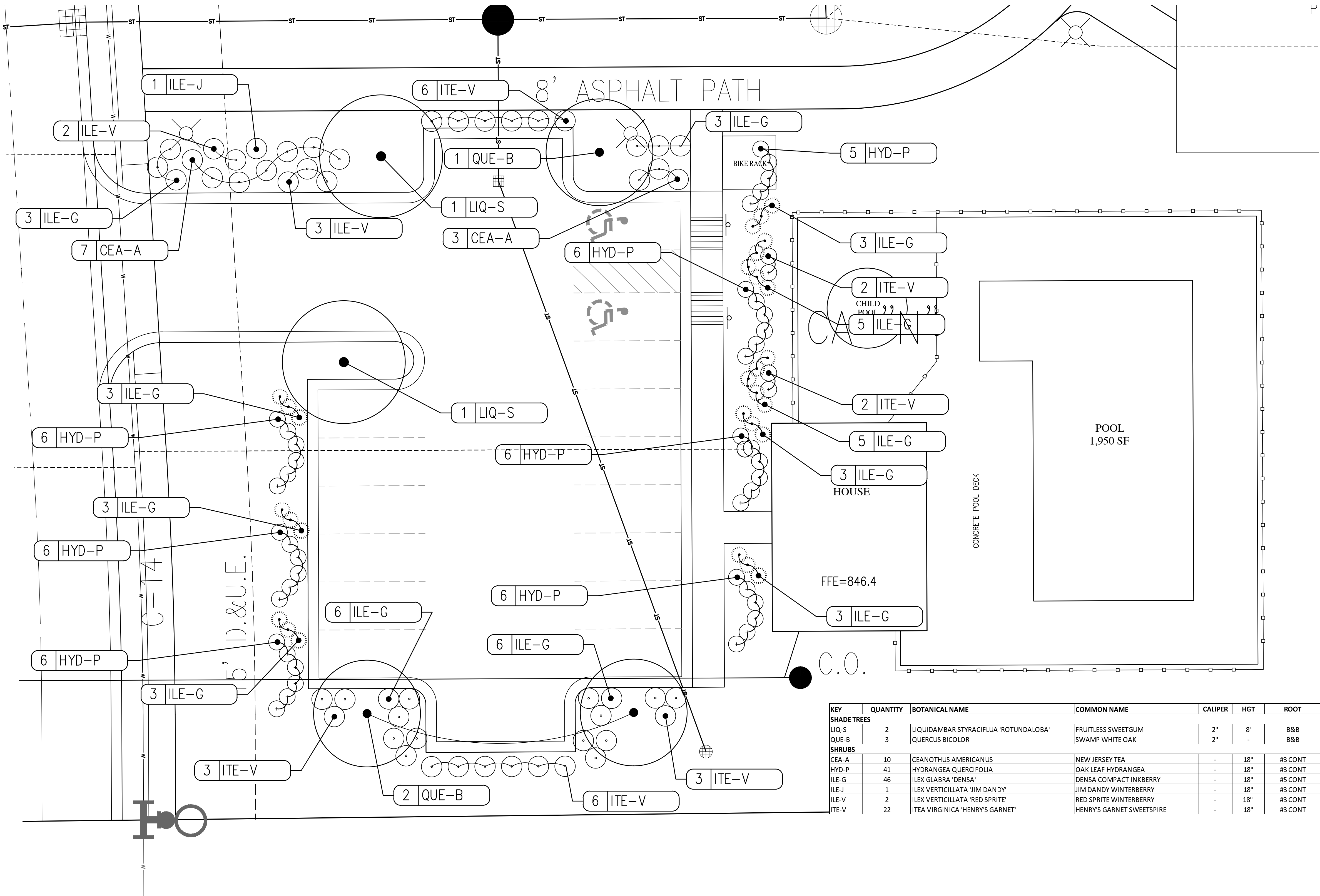
STAFF RECOMMENDATION

☐ Approve ☐ Approve with Conditions ☒ Continue ☐ Deny





File Name: W:\Lenna\2021-107-B Milford Park Sec. 2\Design\CAD\Amenity Set\21107B Landscape Plan - Amenity.dwg, Layout: L1.0 By: ketchhorn
Plot Time: 2:30pm Plot Date: Apr 10, 2024



LANDSCAPE LEGEND:

- # XXXX QUANTITY / KEY
- SHADE TREE - 2 1/2" CALIPER
- DECIDUOUS SHRUB
- ⊙ EVERGREEN SHRUB

KEY	QUANTITY	BOTANICAL NAME	COMMON NAME	CALIPER	HGT	ROOT	SPACING	REMARKS
SHADE TREES								
LIQ-S	2	LIQUIDAMBAR STYRACIFLUA 'ROTUNDALOBA'	FRUITLESS SWEETGUM	2"	8'	B&B	SEE PLAN	CENTRAL LEADER
QUE-B	3	QUERCUS BICOLOR	SWAMP WHITE OAK	2"	-	B&B	SEE PLAN	CENTRAL LEADER
SHRUBS								
CEA-A	10	CEANOTHUS AMERICANUS	NEW JERSEY TEA	-	18"	#3 CONT	SEE PLAN	FULL IN POT
HYD-P	41	HYDRANGEA QUERCIFOLIA	OAK LEAF HYDRANGEA	-	18"	#3 CONT	SEE PLAN	FULL IN POT
ILE-G	46	ILEX GLABRA 'DENSE'	DENSE COMPACT INKBERRY	-	18"	#5 CONT	30" O.C.	FULL IN POT
ILE-J	1	ILEX VERTICILLATA 'JIM DANDY'	JIM DANDY WINTERBERRY	-	18"	#3 CONT	48" O.C.	FULL IN POT - MALE, BRED TO POLLINATE MOST WINTERBERRIES
ILE-V	2	ILEX VERTICILLATA 'RED SPRITE'	RED SPRITE WINTERBERRY	-	18"	#3 CONT	SEE PLAN	FULL IN POT
ITE-V	22	ITEA VIRGINICA 'HENRY'S GARNET'	HENRY'S GARNET SWEETSPIRE	-	18"	#3 CONT	48" O.C.	FULL IN POT

PREPARED BY:
HWC ENGINEERING
135 N. PENNSYLVANIA ST., SUITE 2800
INDIANAPOLIS, IN 46204
P: 317-347-3663

LANDSCAPE GENERAL NOTES:

- NOTIFY THE LANDSCAPE ARCHITECT IF SITE CONDITIONS ARE UNSUITABLE OR OTHER UNFORESEEN CONDITIONS ARE FOUND.
- CONTRACTOR SHALL LOCATE AND VERIFY EXISTENCE OF ALL UTILITIES PRIOR TO STARTING WORK, AND SHALL COORDINATE ALL LANDSCAPE WORK WITH CIVIL AND ELECTRICAL DRAWINGS, PROVIDE ADEQUATE MEANS OF PROTECTION OF UTILITIES AND SERVICES DESIGNATED TO REMAIN, AND REPAIR UTILITIES DAMAGED DURING OPERATIONS AT CONTRACTOR'S EXPENSE.
- ALL PLANT MATERIAL SHALL BE IN CONFORMANCE WITH THE "AMERICAN STANDARD FOR NURSERY STOCK" ANSI Z60.1 LATEST EDITION.
- ALL LANDSCAPING SHALL BE INSTALLED PER LOCAL ZONING REQUIREMENTS.
- CONTRACTOR IS REQUIRED TO NOTIFY LANDSCAPE ARCHITECT OF ANTICIPATED INSTALLATION DATES ONE WEEK PRIOR TO ARRIVAL OF PLANT MATERIAL ON SITE. THE LANDSCAPE ARCHITECT WILL BE AVAILABLE TO REVIEW AND TAG TREES AT THE NURSERY. THE LANDSCAPE ARCHITECT SHALL INSPECT THE QUALITY OF PLANT MATERIAL ON-SITE BEFORE PLANTS ARE PLACED IN THE GROUND. THE LANDSCAPE ARCHITECT MAY REJECT ANY PLANT MATERIAL, AND IT SHALL BE REPLACED WITH ACCEPTABLE MATERIAL BY THE LANDSCAPE CONTRACTOR.
- NO SUBSTITUTIONS FOR THE SPECIFIED LANDSCAPE MATERIAL ARE ALLOWED UNLESS ACCEPTED IN WRITING BY THE LANDSCAPE ARCHITECT PRIOR TO PLANTING OPERATIONS.
- CONTRACTOR TO THOROUGHLY WATER ALL PLANT MATERIAL WITHIN SIX (6) HOURS OF INSTALLATION AND AS SPECIFIED THROUGHOUT THE MAINTENANCE PERIOD. THE OWNER IS RESPONSIBLE FOR WATERING PER CONTRACTOR'S WRITTEN MAINTENANCE INSTRUCTIONS THROUGHOUT THE GUARANTEE PERIOD. SEE NOTE 19. FOR MAINTENANCE AND GUARANTEE PERIOD REQUIREMENTS.
- THE SITE IS TO BE LEFT IN A CLEAN AND NEAT CONDITION AT ALL TIMES.
- MULCH: FINELY SHREDDED HARDWOOD BARK, AGED TO BE APPLIED AT A THREE (3) INCH DEPTH FOR ALL PLANTING BEDS AND TREE SAUCERS. RENEWAL OF MULCH DURING THE GUARANTEE PERIOD SHALL BE PERFORMED BY THE OWNER AS NEEDED. SEE NOTE 19. FOR MAINTENANCE AND GUARANTEE PERIOD REQUIREMENTS. ALL INTERIOR PARKING LOT PLANTING AREAS TO RECEIVE MULCH UNLESS NOTED OTHERWISE.
- SEED WITH TURF GRASS/LAWN ALL DISTURBED AREAS NOT SCHEDULED FOR OTHER IMPROVEMENTS.
- ALL PLANTING BEDS WITH ADJOINING LAWN AREAS SHALL BE EDGED WITH A SPADE, UNLESS NOTED OTHERWISE.
- CONTRACTOR SHALL SUPPLY ALL PLANT MATERIALS IN QUALITY AND QUANTITIES

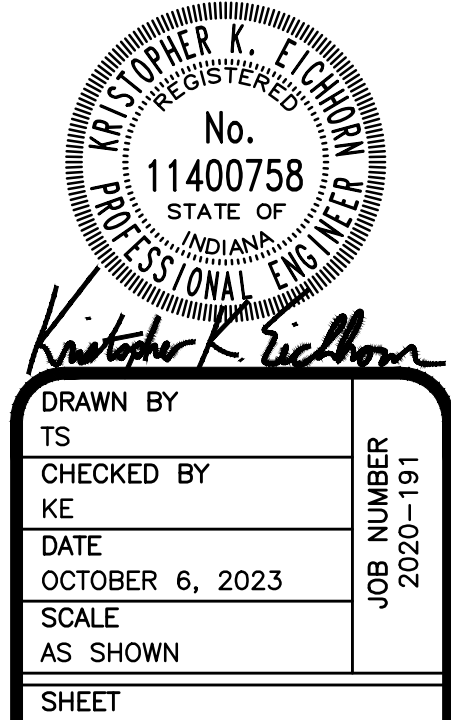
SUFFICIENT TO COMPLETE THE PLANTING AS SHOWN ON DRAWINGS. IF THERE IS A DISCREPANCY BETWEEN THE PLANS AND THE PLANT LIST, THE PLANS SHALL TAKE PRECEDENCE. IF THERE IS A DISCREPANCY BETWEEN THE QUANTITY OF PLAN SYMBOLS AND THE QUANTITY LABEL, THE PLAN SYMBOLS SHALL TAKE PRECEDENCE.

- NO PLANT SHALL BE PUT INTO THE GROUND BEFORE ALL PAVEMENT AND ROUGH GRADING HAS BEEN FINISHED AND APPROVED. LANDSCAPE INSTALLATION SHALL NOT BE PHASED UNLESS APPROVED BY THE LANDSCAPE ARCHITECT. ALL PLANT MATERIAL SHALL BE INSTALLED IN ONE MOBILIZATION AT THE END OF THE PROJECT UNLESS OTHERWISE NOTED.
- PRIOR TO PLANTING, THE LOCATIONS OF ALL TREES AND SHRUBS SHALL BE STAKED FOR APPROVAL BY THE OWNER'S REPRESENTATIVE.
- STAKES AND GUY WIRES USED TO SUPPORT PLANTING MATERIALS SHALL BE REMOVED AFTER ONE YEAR.
- ALL PLANTS SHALL BE BALLED AND WRAPPED OR CONTAINER GROWN AS SPECIFIED. NO CONTAINER GROWN STOCK WILL BE ACCEPTED IF IT IS ROOTBOUND. ALL ROOT WRAPPING MATERIAL MADE OF SYNTHETICS OR PLASTICS SHALL BE REMOVED AT THE TIME OF PLANTING. ALL TWINE OR ROPE SHALL BE REMOVED FROM AROUND CROWN OF TRUNK TO PREVENT GIRDLING OF TREE. ALL PLANTS SHALL BE PLANTED SO THAT THE ROOT CROWN IS PLANTED 1/2 - 1" ABOVE GRADE LEVEL.
- WITH CONTAINER GROWN STOCK, THE CONTAINER SHALL BE REMOVED AND THE CONTAINER BALL SHALL BE CUT THROUGH THE SURFACE IN THREE VERTICAL LOCATIONS.
- CONTRACTOR SHALL REPAIR ANY DAMAGE TO PROPERTY FROM PLANTING OPERATIONS AT NO COST TO THE OWNER.
- MAINTENANCE PERIOD: CONTRACTOR SHALL BE RESPONSIBLE FOR ALL PLANT MAINTENANCE AND REPLACEMENT THROUGHOUT CONSTRUCTION. UPON RECEIVING WRITTEN ACCEPTANCE FROM THE LANDSCAPE ARCHITECT, CONTRACTOR'S MAINTENANCE PERIOD IS COMPLETE AND GUARANTEE PERIOD BEGINS. OWNER ACCEPTS MAINTENANCE OF PLANTS AND LANDSCAPE BEDS AT START OF GUARANTEE PERIOD PER CONTRACTORS WRITTEN MAINTENANCE INSTRUCTIONS.
- WARRANTY: LANDSCAPE CONTRACTOR SHALL WARRANTY ALL NEW PLANT MATERIAL THROUGH ONE YEAR FROM THE TIME OF WRITTEN ACCEPTANCE BY THE LANDSCAPE ARCHITECT ESTABLISHING THE START OF THE GUARANTEE PERIOD.
- REPLACEMENTS: AT THE CONCLUSION OF THE GUARANTEE PERIOD, THE LANDSCAPE ARCHITECT WILL PERFORM A FINAL INSPECTION. ANY MATERIAL DEEMED DEAD OR UNSATISFACTORY BY THE LANDSCAPE ARCHITECT AT THAT TIME WILL BE REPLACED EQUIVALENT IN SIZE AND SHAPE AT NO COST TO THE OWNER. REPLACEMENT PLANT MATERIAL IS TO BE PROVIDED WITH AN ADDITIONAL ONE-YEAR WARRANTY AND SHALL BE REPLACED IF DEAD, DYING, OR OTHERWISE UNACCEPTABLE TO THE LANDSCAPE ARCHITECT ONE FINAL TIME AT THE CONCLUSION OF THAT PERIOD.

REVISIONS		
DATE	DESCRIPTION	BY
4/2/24	TAC REVIEW	HWC



MILFORD PARK AMENITY
FISHERS, INDIANA
LANDSCAPE PLAN



L1.0
LANDSCAPE PLAN



Planned Unit Development (PUD)

Committee Staff Report

Meeting Date: May 1, 2024

DEPARTMENT CONTACT:

Gabrielle Herin (hering@fishers.in.us)

CASE NUMBER:

PUD-24-6

PETITIONER:

Kyle Eichhorn on behalf of Lennar
(keichhorn@hwcengineering.com)

PROPERTY ADDRESS/LOCATION:

13-12-31-00-00-036.000

REQUEST: Request to approve the architecture for a new pool house and pool within the Milford Park PUD, generally located east of Florida Road and north of E. 113th Street.

APPLICABLE REGULATIONS:

Milford Park PUD and UDO
where applicable

EXISTING ZONING:

Milford Park PUD

FISHERS 2040:

Estate Residential

LOCATION MAP

STAFF RECOMMENDATION

☐ Approve

☒ Approve with Conditions

☐ Continue

☐ Deny

ZONING HISTORY:

The property is currently zoned PUD-R Milford Park PUD, Ord. No. 071921 and was adopted by the City Council in August 2021. Totalling approximately 60 acres, the development is generally located north of E. 113th Street and east of Florida Road.

Milford Park PUD primarily consists of single-family homes.



North: PUD Residential (Single-Family)

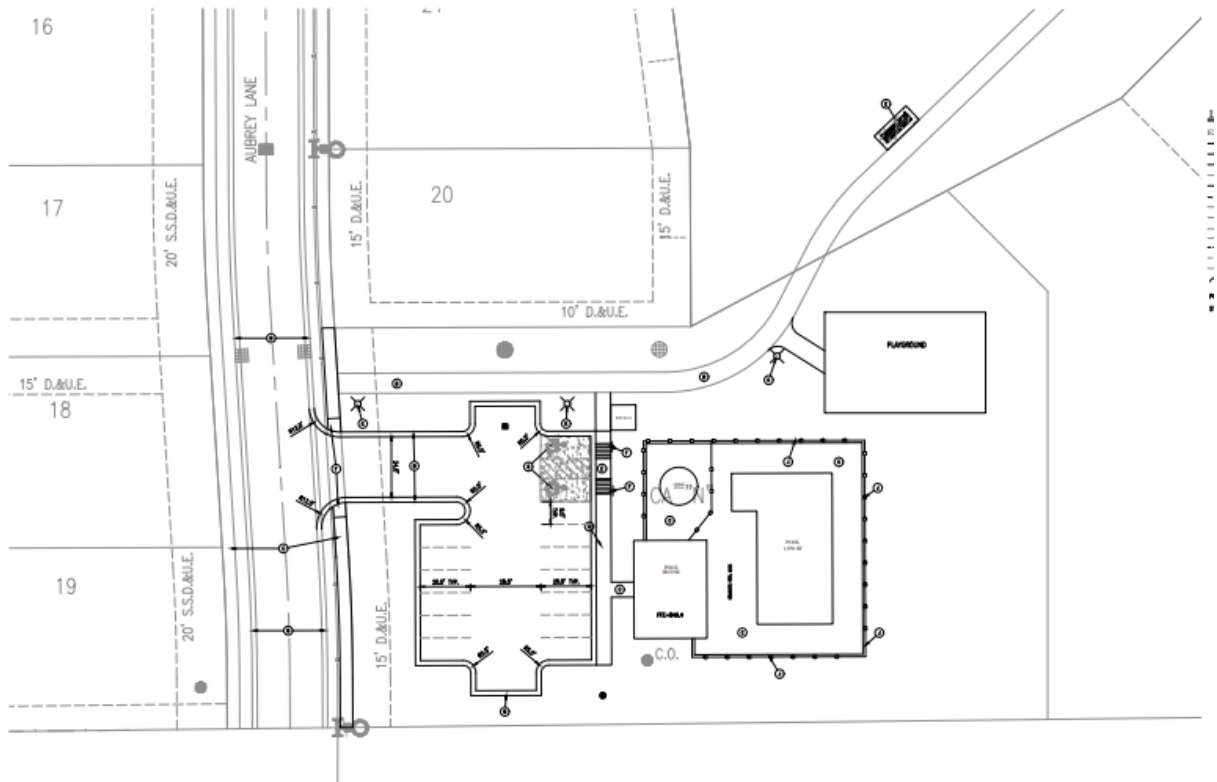
East: PUD Residential (Single-Family)

South: PUD Residential (Single-Family), Open Space (Fishers AgriPark)

West: PUD Residential (Single-Family), R2 Residential (Utility Substation, Single-Family)

PETITION OVERVIEW:

Lennar requests approval of the architecture for a new pool house along the southern most property line of Milford Park PUD. Concurrently, the applicant is going through the ILP and TAC process. The pool house and pool will be shared with Geist Manor PUD residents to the south.



Site Plan



Front elevation of the pool house.



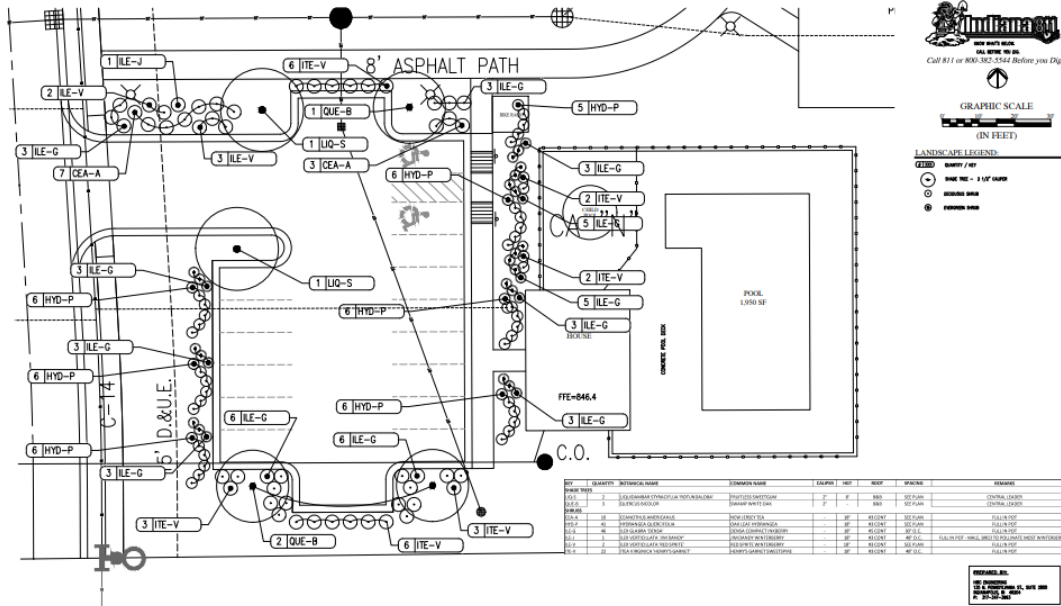
Left side elevation of the pool house.



Right side elevation of the pool house.



Rear elevation of the pool house.



Landscape Plan

DETAILS:

Materials used on this project are as follows. The location of these materials is called out on the elevations. The colors of these materials are substantially similar to those used in the approved home elevations for Milford Park.

5/4x6 LP Painted Smarttrim
Dimensional Fiberglass Shingles
Hardie Colorplus Shingle Siding, Factory Finish
Hardie Colorplus Lap Siding (7" Exposure Factory Finish)
Brick Veneer and Rowlock
Rough Sawn Painted Wood Column
Prefinished Aluminum Downspout and Gutter

ARCHITECTURAL STANDARDS:

Per the Milford Park PUD Ordinance No. 071921, the architectural design standards of the pool house shall be reviewed and approved by the PUD Committee.

Staff's review compared the architecture of the pool house with the architecture of the approved home elevations. Overall, the pool house architecture appears to be substantially similar in terms of the type and color of materials used. Staff would like to confirm that Hardie shake siding is being used on the front elevation.

Staff recommends approval with the condition that all TAC comments are addressed.

STAFF RECOMMENDATION

☐ Approve ☒ Approve with Conditions ☐ Continue ☐ Deny

CAPRI - ILLUSTRATIVE ARCHITECTURE

THE COURTYARDS OF FISHERS PUD



A Ranch



A Bonus



B Ranch



B Bonus



C Ranch



C Bonus



D Ranch



FIRST FLOOR

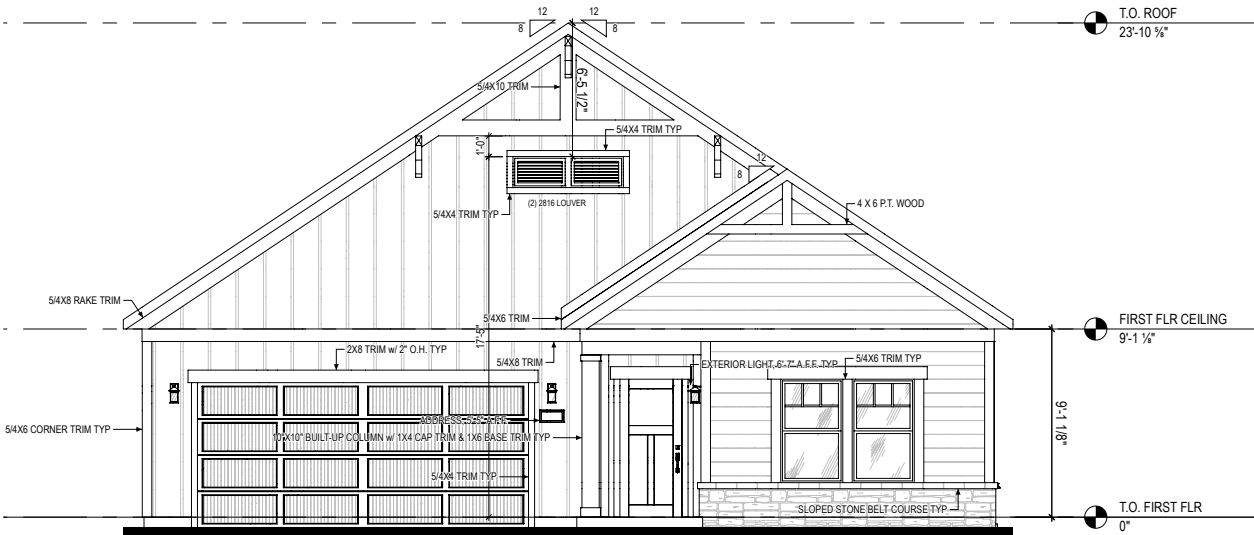
CAPRI - A RANCH

THE COURTYARDS OF FISHERS PUD

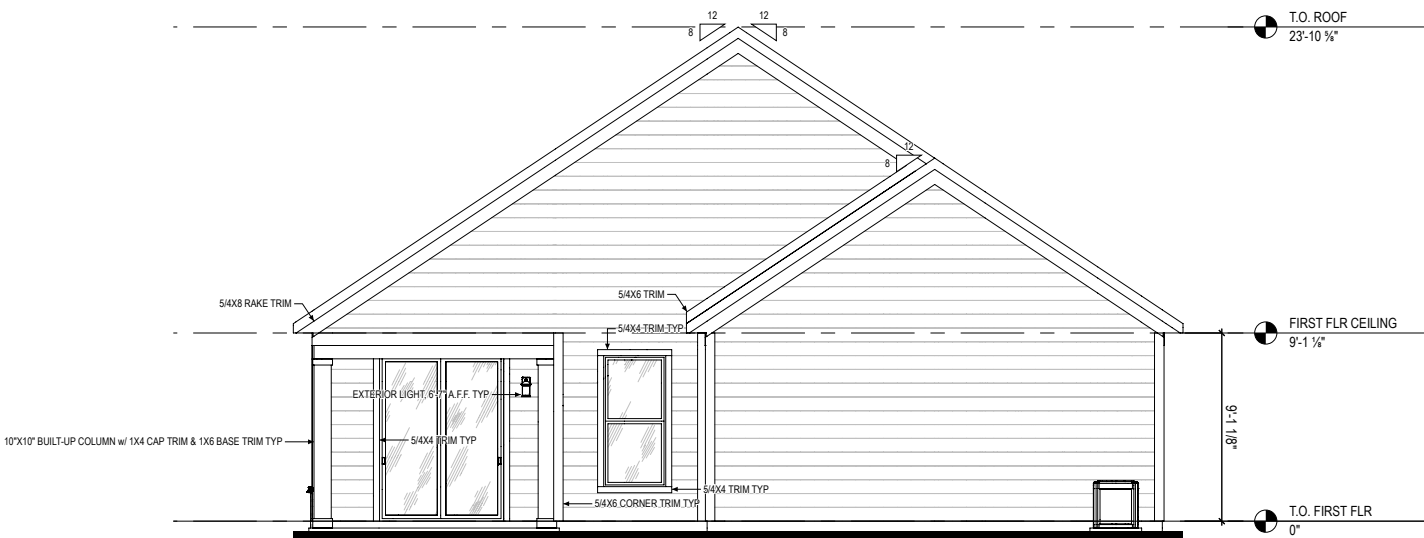




A Ranch



1 FRONT ELEV
A-200
1/4" = 1'-0" @ 22" x 34"



2 BACK ELEV
A-200
1/4" = 1'-0" @ 22" x 34"



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Carmel, IN, 46032

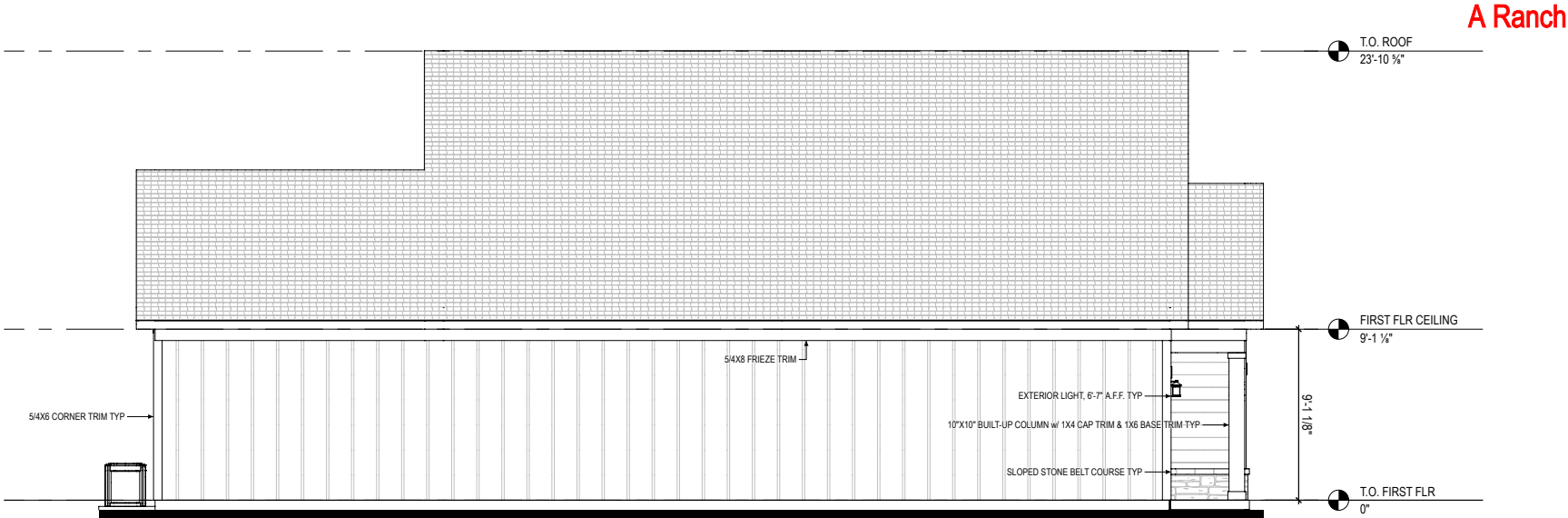
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01	BUILDER SET	2/1/2024

PROJECT
PLAN: Capri (2023)
ELEV: Elevation A
LOT:

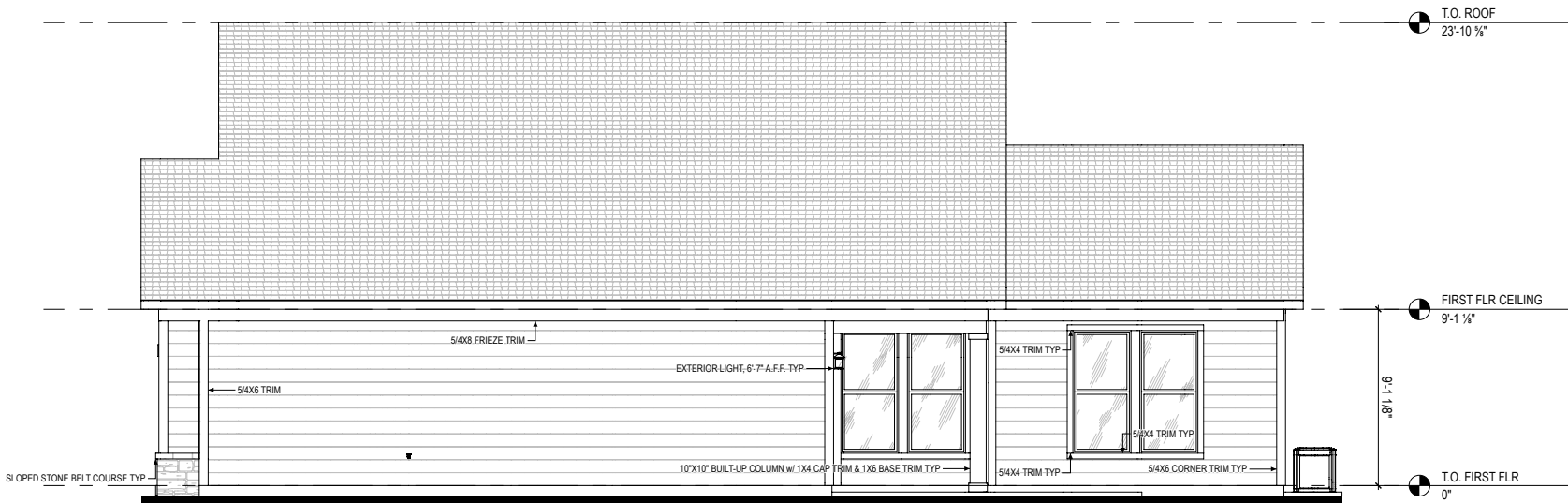
LOT ADDRESS:

DRAWING TITLE
FRONT / BACK
ELEVATION

SHEET NUMBER
A-200



1 LEFT ELEV
A-201
1/4" = 1'-0" @ 22" x 34"



2 RIGHT ELEV
A-201
1/4" = 1'-0" @ 22" x 34"



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ISSUE	DESCRIPTION	DATE
01	BUILDER SET	2/1/2024

PROJECT
PLAN: Capri (2023)
ELEV: Elevation A
LOT:

LOT ADDRESS:

DRAWING TITLE
**LEFT / RIGHT
ELEVATION**

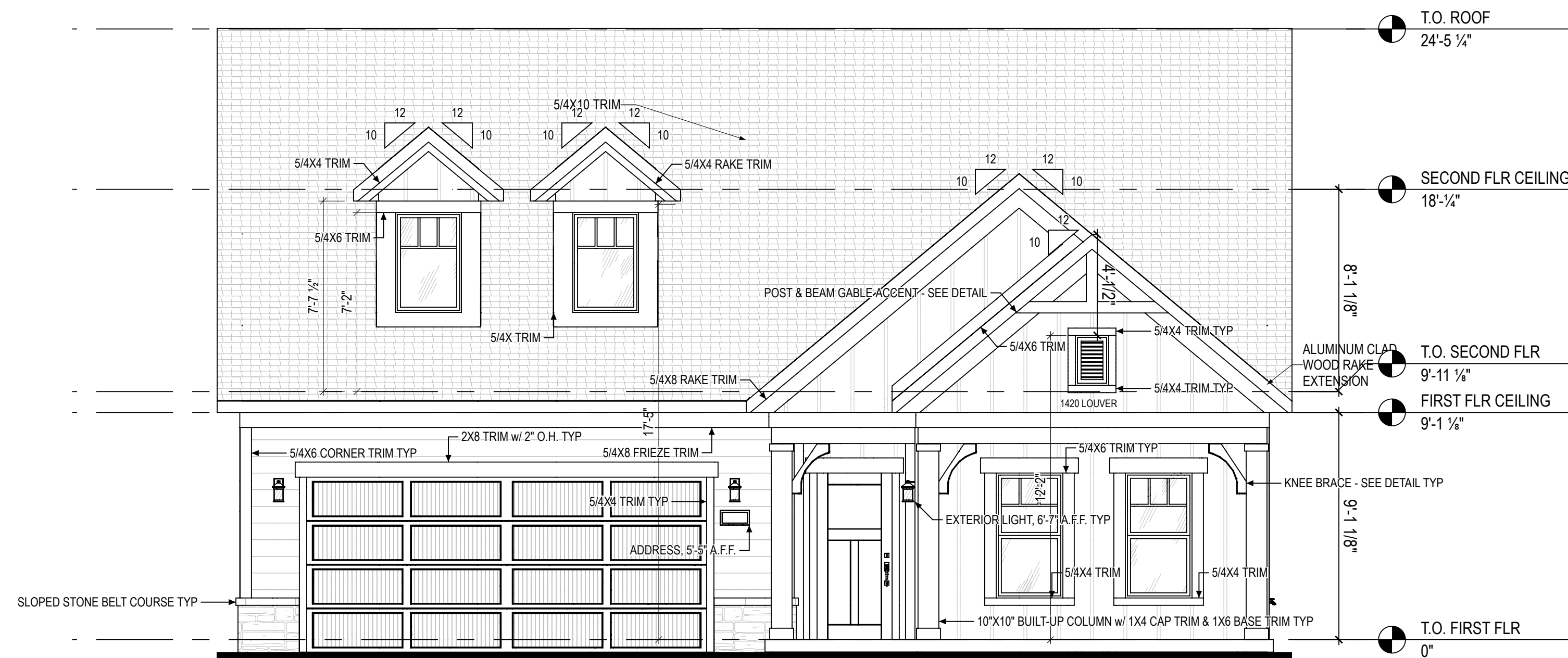
SHEET NUMBER
A-201

CAPRI - A BONUS

THE COURTYARDS OF FISHERS PUD



Epcon Communities - Capri, Elevation B Bonus The Courtyards of Fishers



MATERIAL LEGEND

LAP SIDING

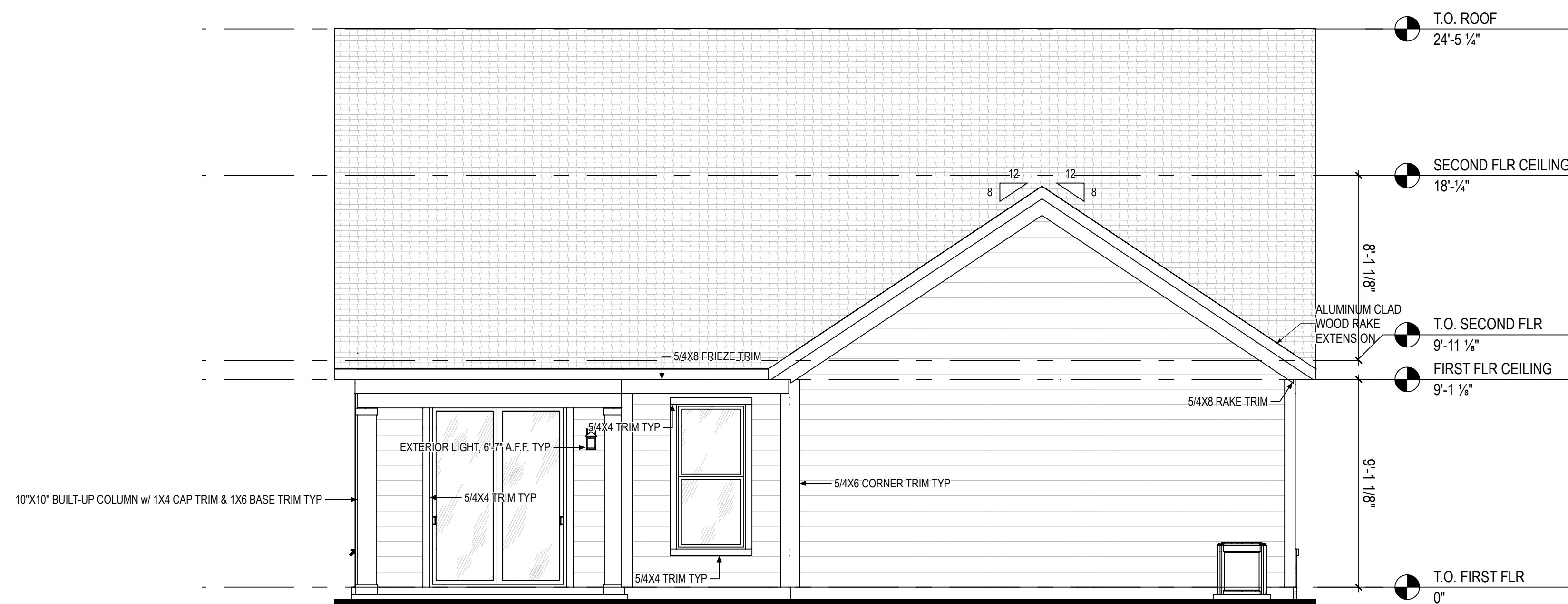
BOARD & BATTEN SIDING

SHAKE SIDING

STONE VENEER



1 FRONT ELEV
A-200 1/4" = 1'-0" @ 22" x 34"



2	BACK ELEV
A-200	1/4" = 1'-0" @ 22" x 34"

ISSUE	DESCRIPTION	DATE
01	BUILDER SET	4/15/2024

PROJECT

PLAN: Capri (2023)

ELEV: Elevation B

LOT:

LOT ADDRESS:

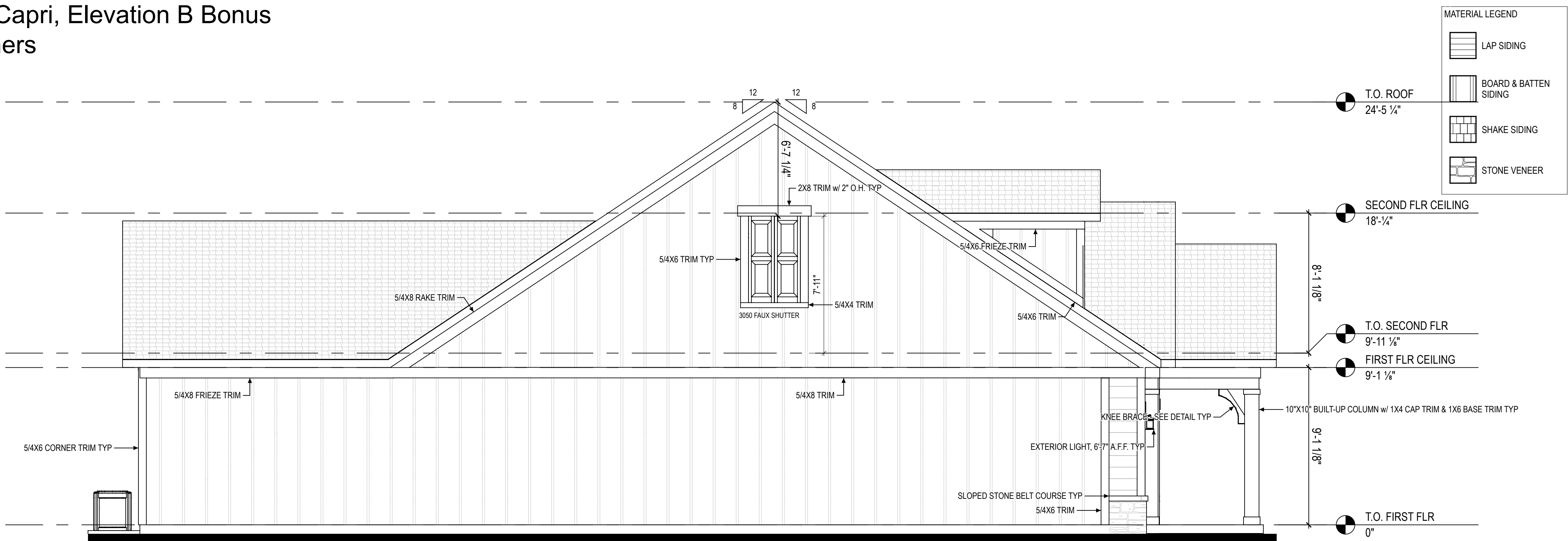
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**FRONT / BACK
ELEVATION**

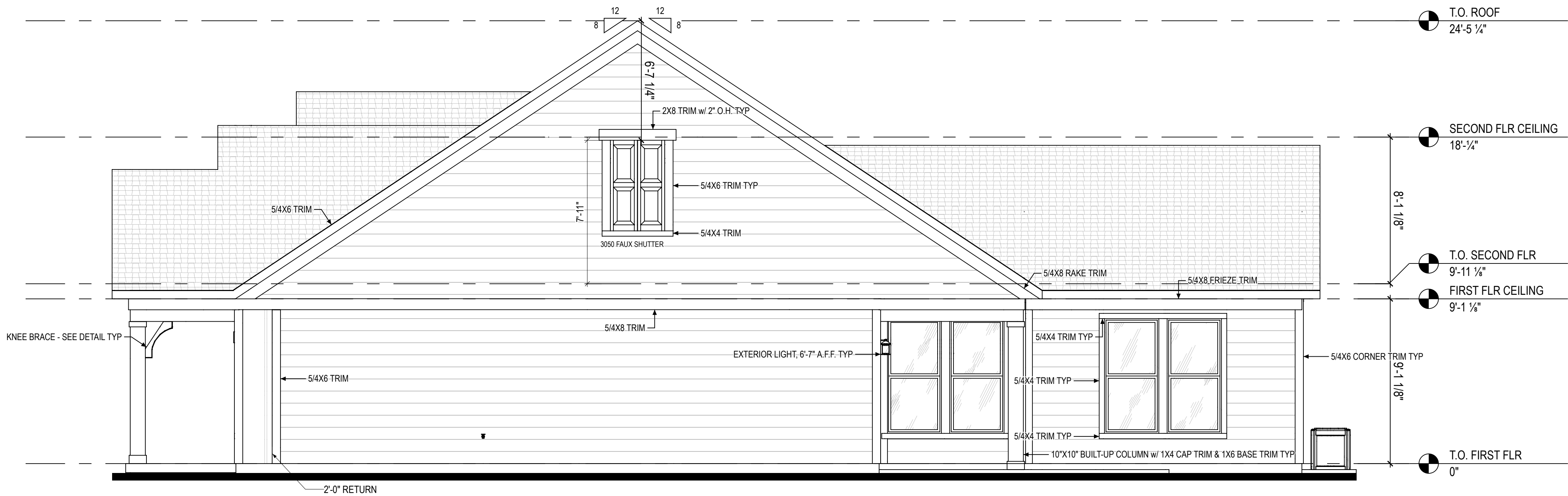
SHEET NUMBER

A-200

Epcon Communities - Capri, Elevation B Bonus
The Courtyards of Fishers



1 LEFT ELEV
A-201
1/4" = 1'-0" @ 22" x 34"



2 RIGHT ELEV
A-201
1/4" = 1'-0" @ 22" x 34"



EPCON
COMMUNITIES

Epcon Indianapolis

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Carmel, IN, 46032

ISSUE	DESCRIPTION	DATE
01	BUILDER SET	4/15/2024

PROJECT
PLAN: Capri (2023)
ELEV: Elevation B
LOT:

LOT ADDRESS:

DRAWING TITLE
LEFT / RIGHT
ELEVATION

SHEET NUMBER

A-201

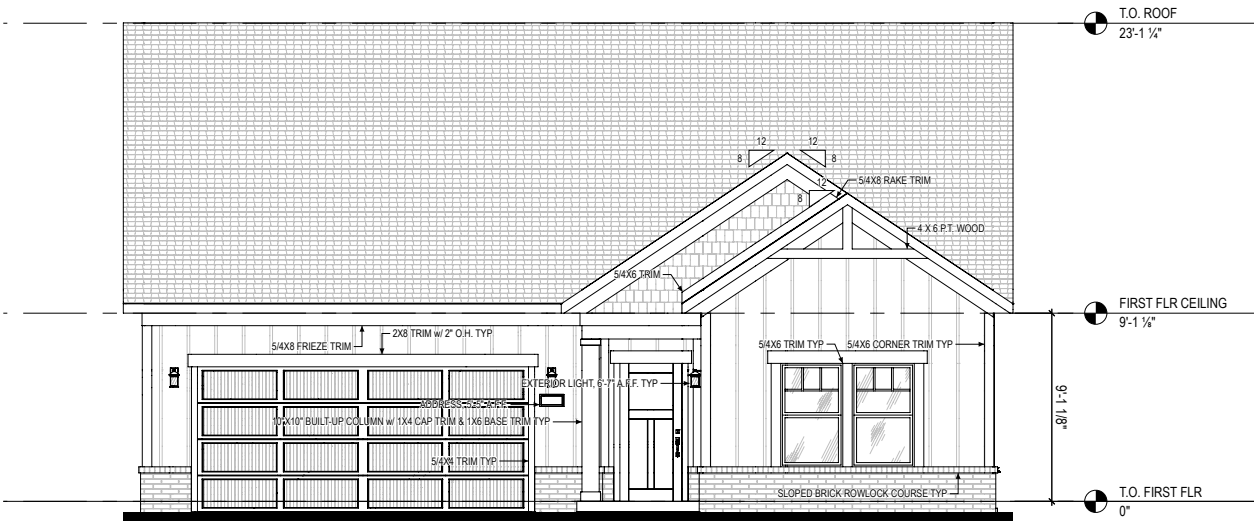
CAPRI - B RANCH

THE COURTYARDS OF FISHERS PUD

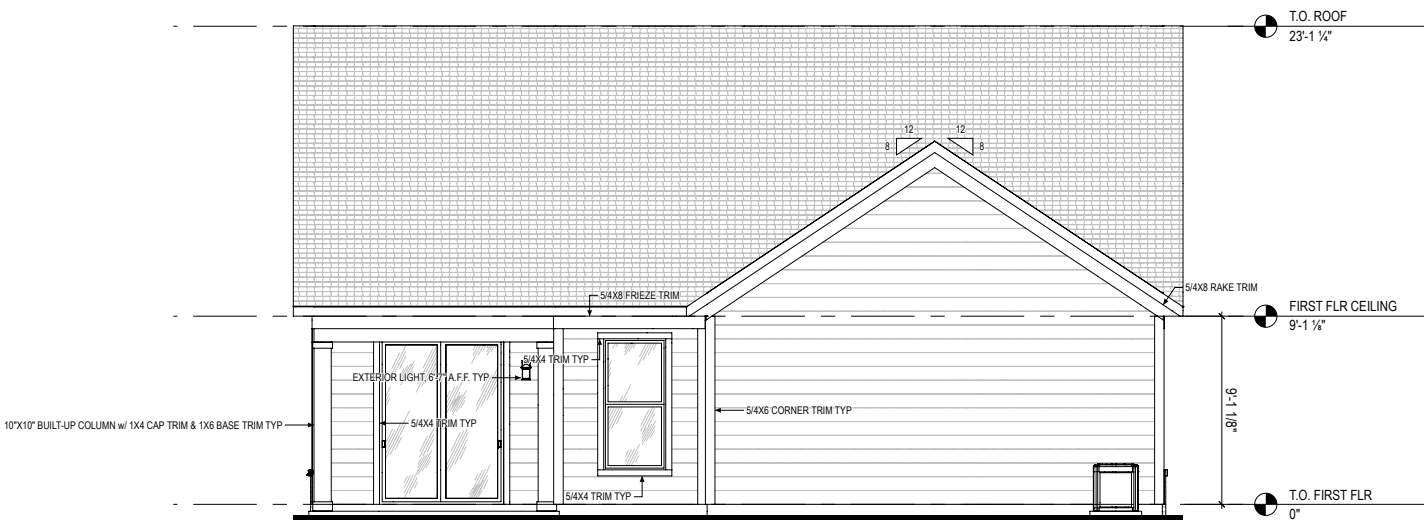




B Ranch



1 FRONT ELEV
A-200
1/4" = 1'-0" @ 22" x 34"



2 BACK ELEV
A-200
1/4" = 1'-0" @ 22" x 34"



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Carmel, IN, 46032

ISSUE	DESCRIPTION	DATE
01	BUILDER SET	2/1/2024

PROJECT
PLAN: Capri (2023)
ELEV: Elevation B
LOT:

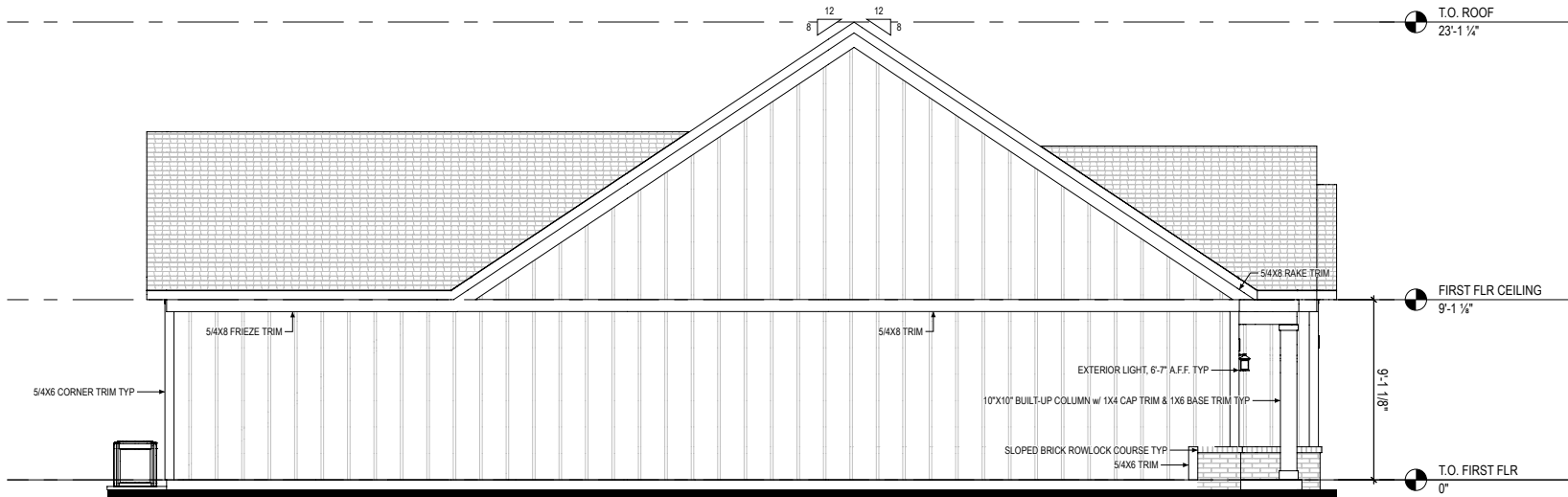
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FRONT / BACK
ELEVATION

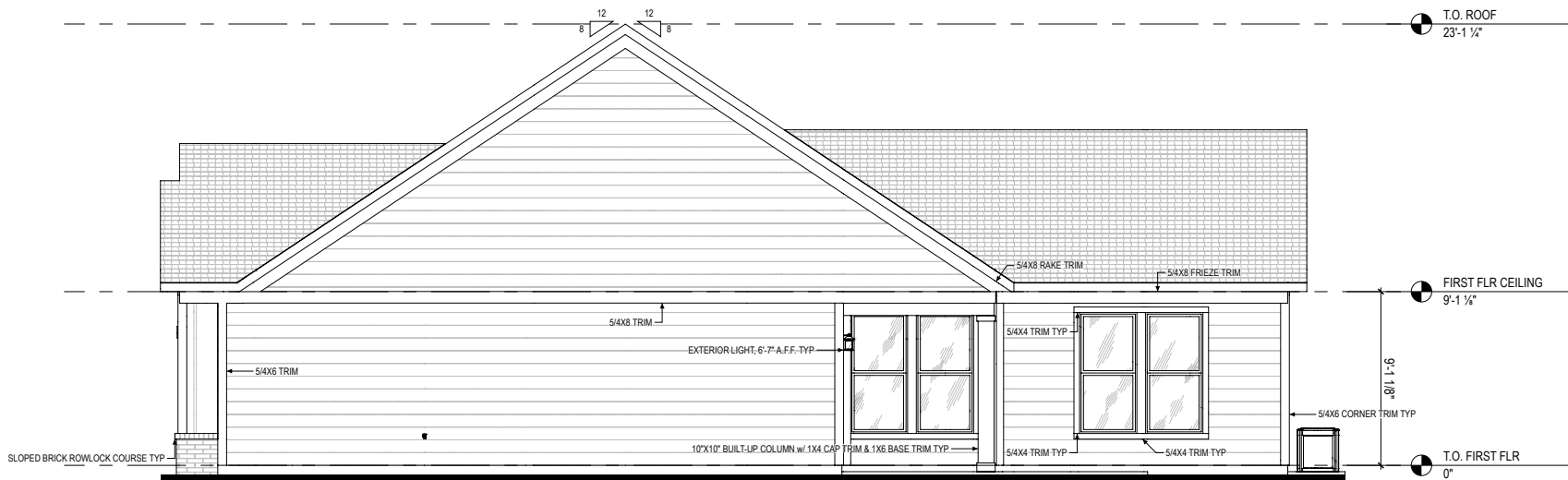
SHEET NUMBER
A-200



B Ranch



1 LEFT ELEV
A-201 1/4" = 1'-0" @ 22" x 34"



2 RIGHT ELEV
A-201 1/4" = 1'-0" @ 22" x 34"



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ISSUE	DESCRIPTION	DATE
01	BUILDER SET	2/1/2024

PROJECT
PLAN: Capri (2023)
ELEV: Elevation B
LOT:

LOT ADDRESS:

DRAWING TITLE
LEFT / RIGHT
ELEVATION

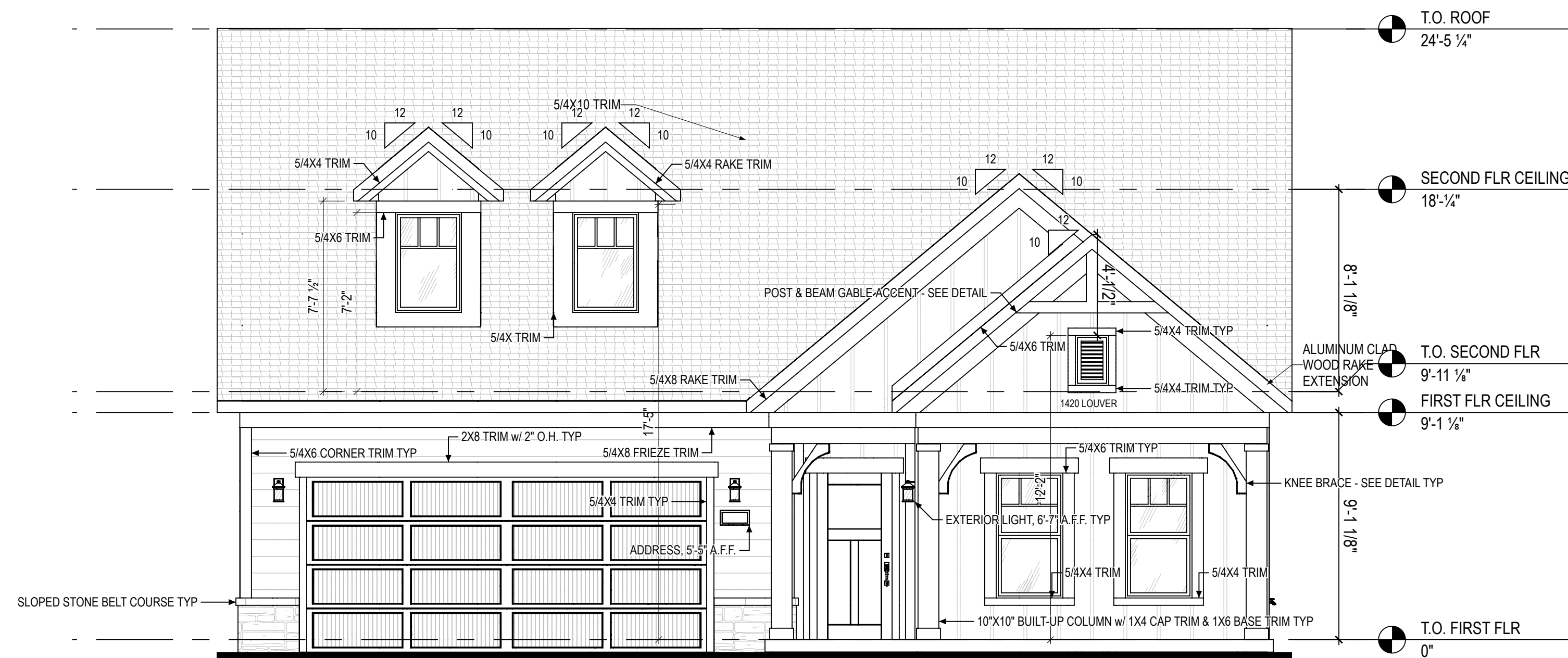
SHEET NUMBER
A-201

CAPRI - B BONUS

THE COURTYARDS OF FISHERS PUD



Epcon Communities - Capri, Elevation B Bonus The Courtyards of Fishers



MATERIAL LEGEND

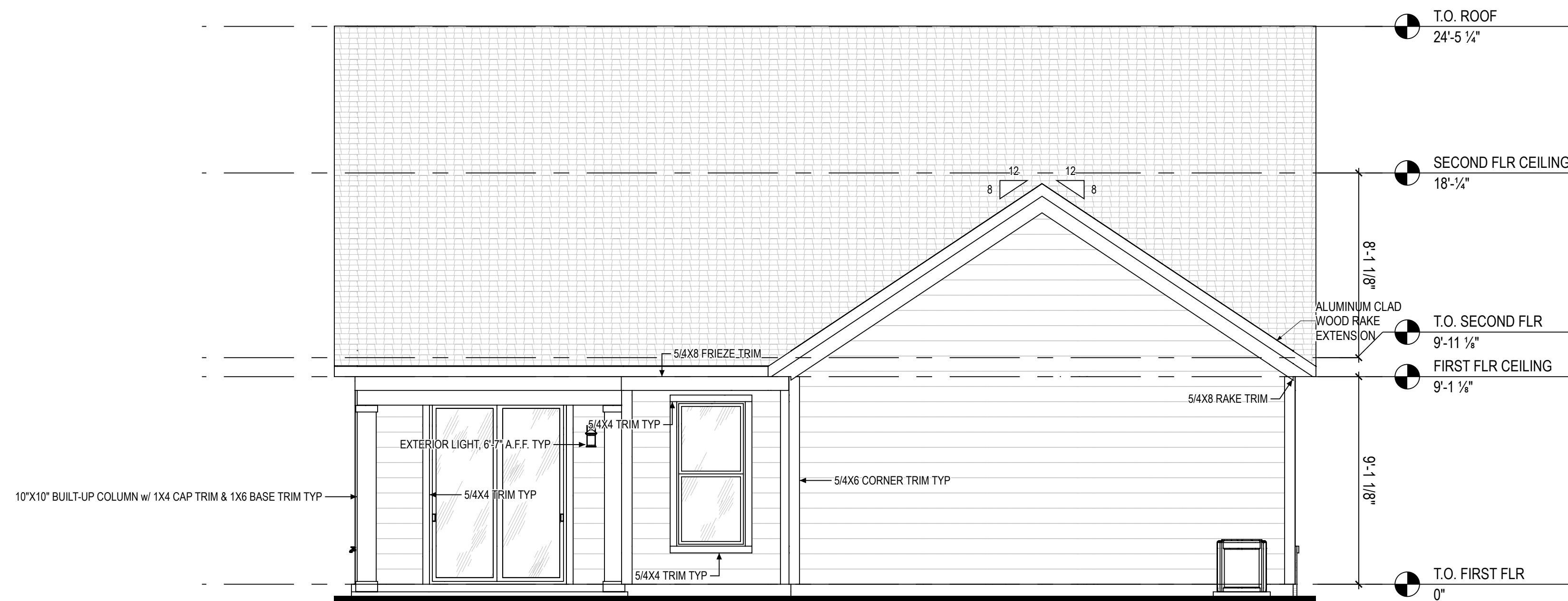
-  LAP SIDING
-  BOARD & BATTEN SIDING
-  SHAKE SIDING
-  STONE VENEER



EPCON®
COMMUNITIES

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Carmel, IN, 46032

1 FRONT ELEV
A-200 1/4" = 1'-0" @ 22" x 34"



2	BACK ELEV
A-200	1/4" = 1'-0" @ 22" x 34"

ISSUE	DESCRIPTION	DATE
01	BUILDER SET	4/15/2024

PROJECT
PLAN: Capri (2023)
ELEV: Elevation B
LOT:

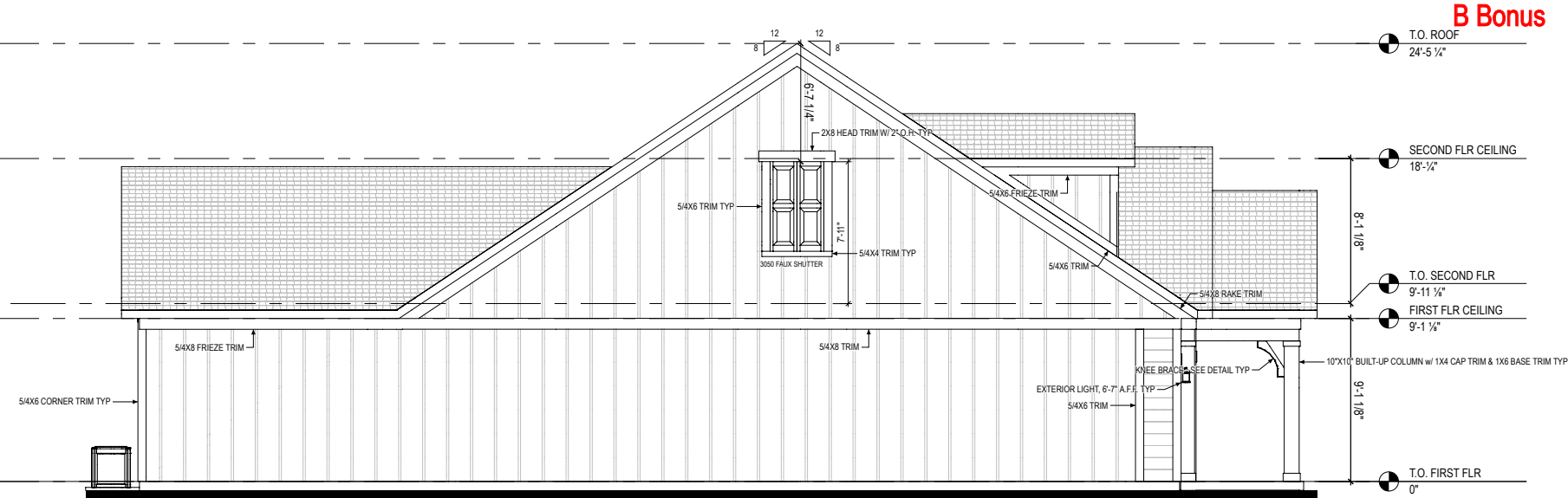
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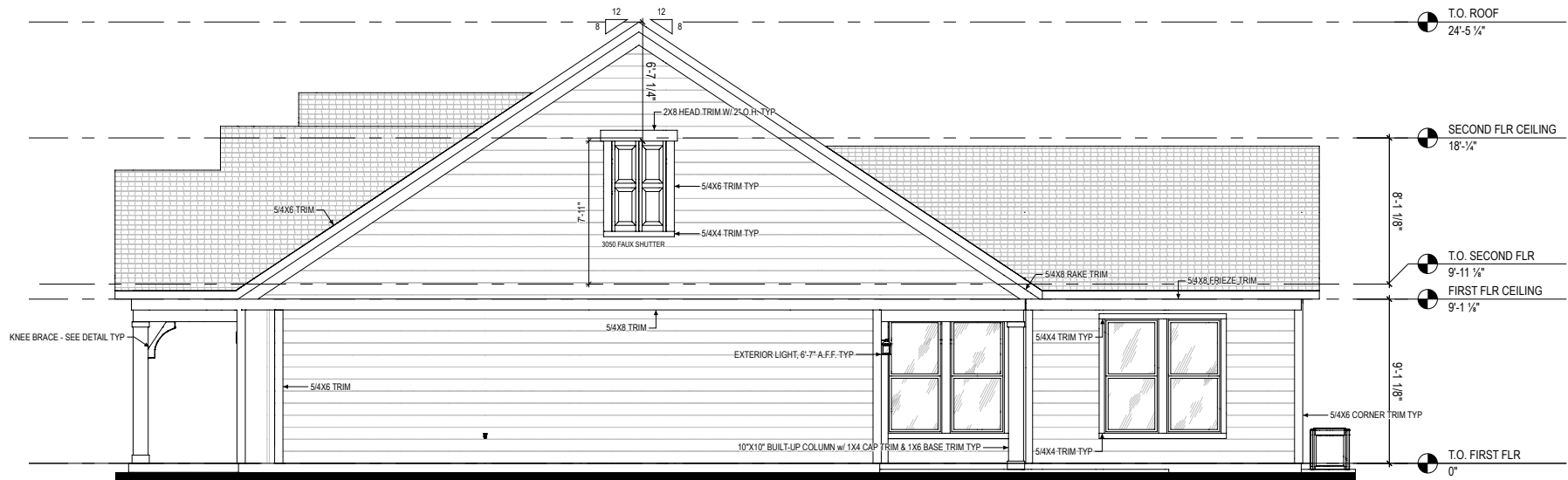
**FRONT / BACK
ELEVATION**

SHEET NUMBER

A-200



1 LEFT ELEV
A-201 1/4" = 1'-0" @ 22" x 34"



2 RIGHT ELEV
A-201 1/4" = 1'-0" @ 22" x 34"



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ISSUE	DESCRIPTION	DATE
01	BUILDER SET	2/1/2024

PROJECT
PLAN: Capri (2023)
ELEV: Elevation B
LOT:

LOT ADDRESS:

DRAWING TITLE
**LEFT / RIGHT
ELEVATION**

SHEET NUMBER
A-201

CAPRI - C RANCH

THE COURTYARDS OF FISHERS PUD



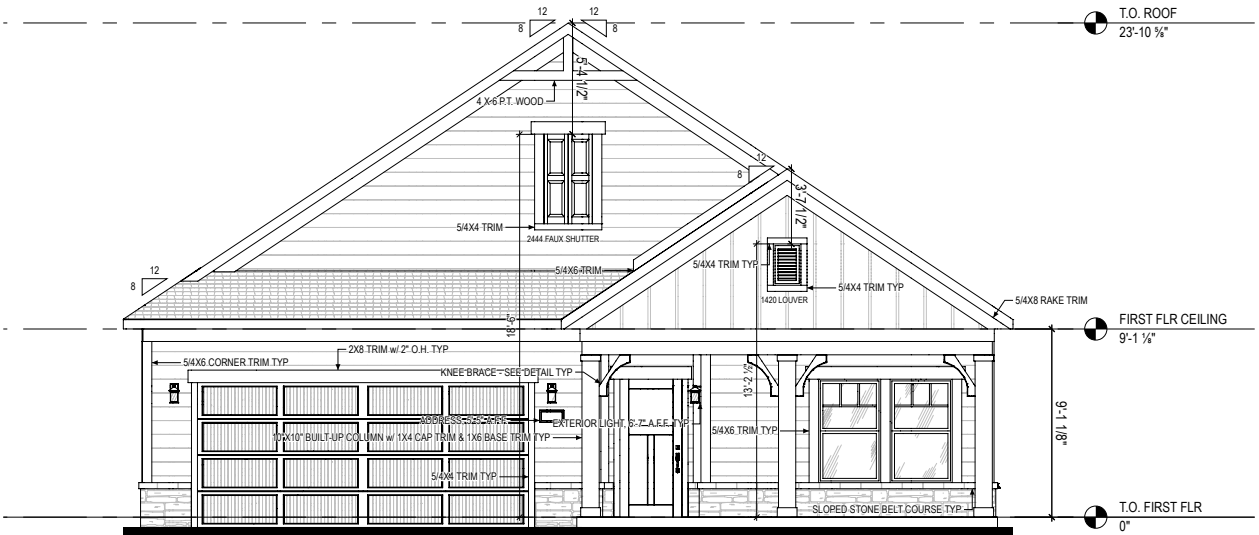


C Ranch

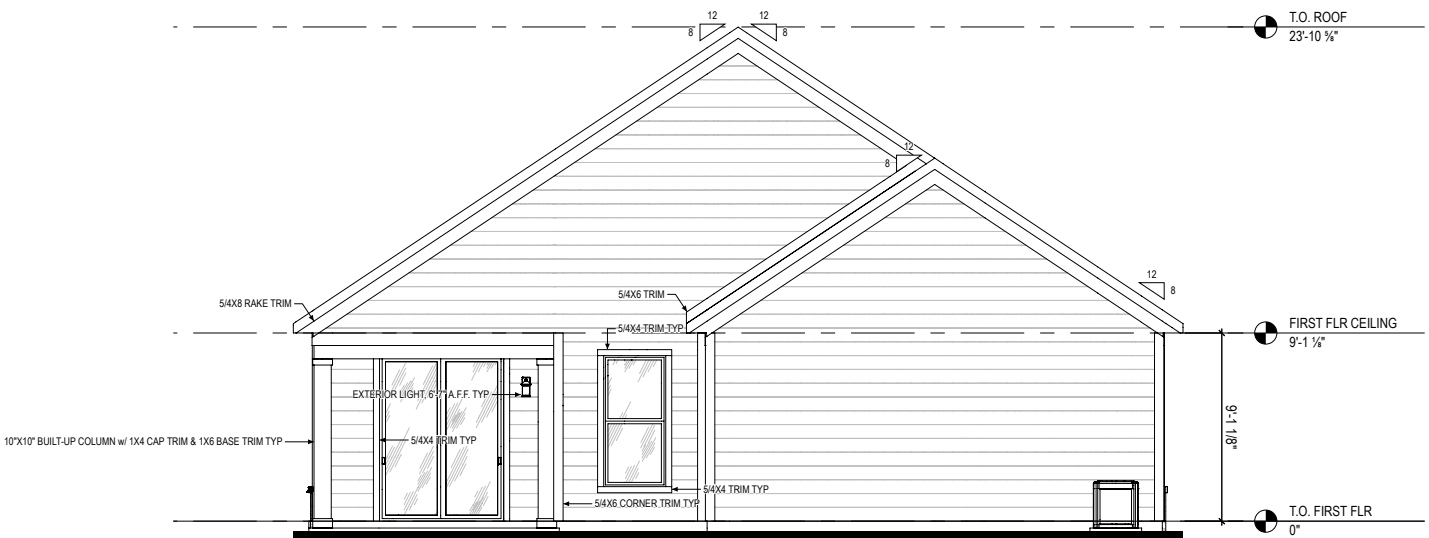


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Carmel, IN, 46032

1 FRONT ELEV
A-200 1/4" = 1'-0" @ 22" x 34"



2 BACK ELEV
A-200 1/4" = 1'-0" @ 22" x 34"



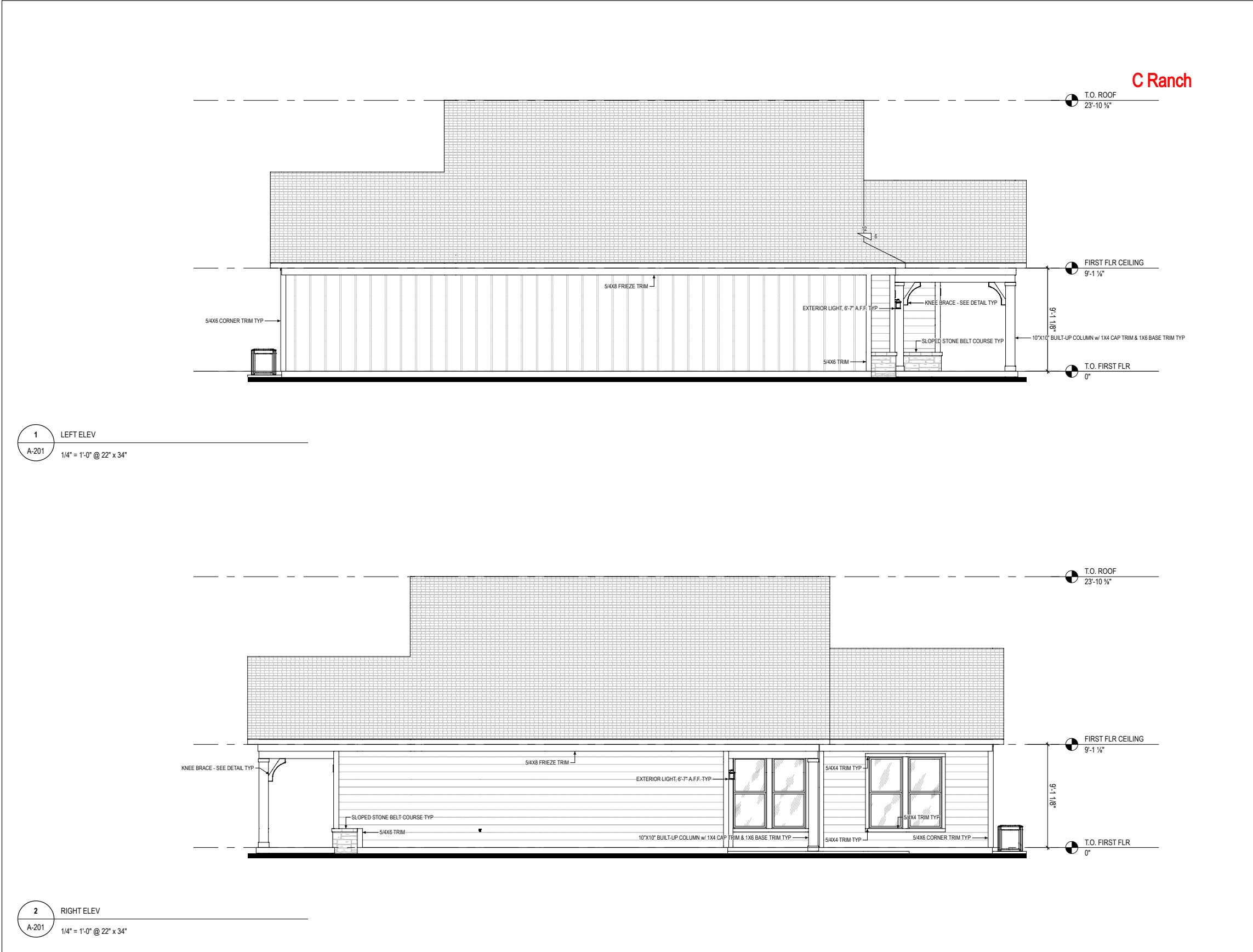
ISSUE	DESCRIPTION	DATE
01	BUILDER SET	2/1/2024

PROJECT
PLAN: Capri (2023)
ELEV: Elevation C
LOT:

LOT ADDRESS:

DRAWING TITLE
FRONT / BACK
ELEVATION

SHEET NUMBER
A-200



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Carmel, IN, 46032

ISSUE	DESCRIPTION	DATE
01	BUILDER SET	2/1/2024

PROJECT
PLAN: Capri (2023)
ELEV: Elevation C
LOT:

LOT ADDRESS:

DRAWING TITLE
**LEFT / RIGHT
ELEVATION**

SHEET NUMBER
A-201

CAPRI - C BONUS

THE COURTYARDS OF FISHERS PUD





C Bonus

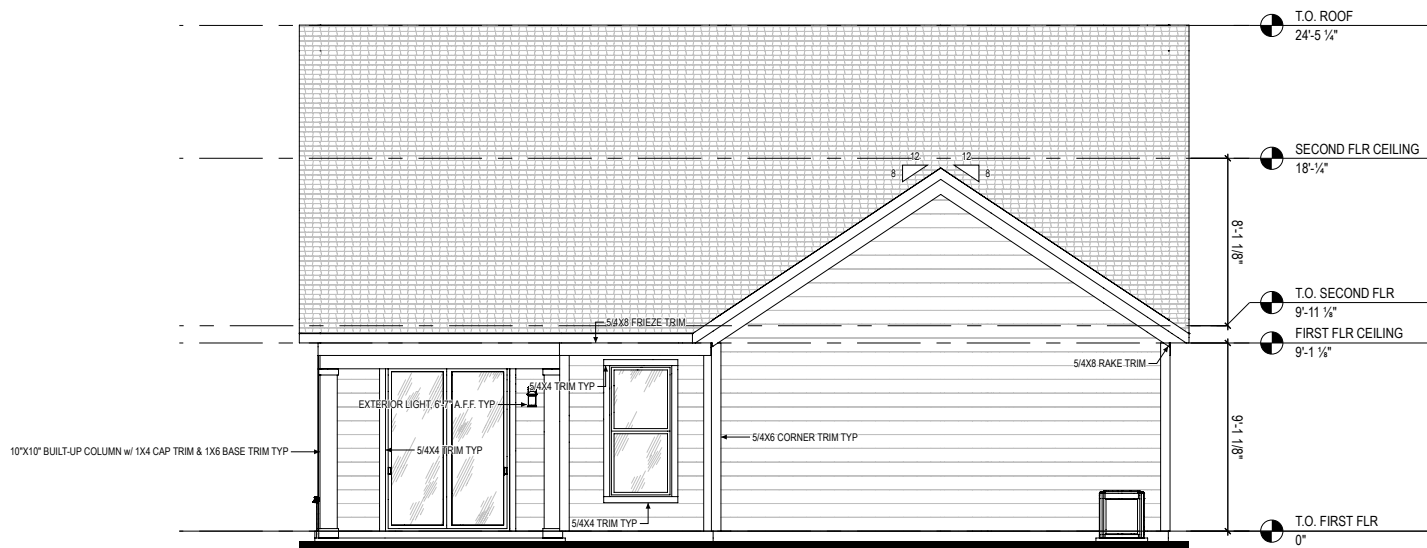


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1 FRONT ELEV
A-200 1/4" = 1'-0" @ 22" x 34"



2 BACK ELEV
A-200 1/4" = 1'-0" @ 22" x 34"



ISSUE	DESCRIPTION	DATE
01	BUILDER SET	2/1/2024

PROJECT
PLAN: Capri (2023)
ELEV: Elevation C
LOT:

LOT ADDRESS:

DRAWING TITLE
FRONT / BACK
ELEVATION

SHEET NUMBER
A-200



Epcon Indianapolis
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Carmel, IN, 46032

ISSUE	DESCRIPTION	DATE
01	BUILDER SET	2/1/2024

PROJECT

PLAN: Capri (2023)
ELEV: Elevation C
LOT:

LOT ADDRESS:

DRAWING TITLE

LEFT / RIGHT ELEVATION

SHEET NUMBER

A-201

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CAPRI - D RANCH

THE COURTYARDS OF FISHERS PUD





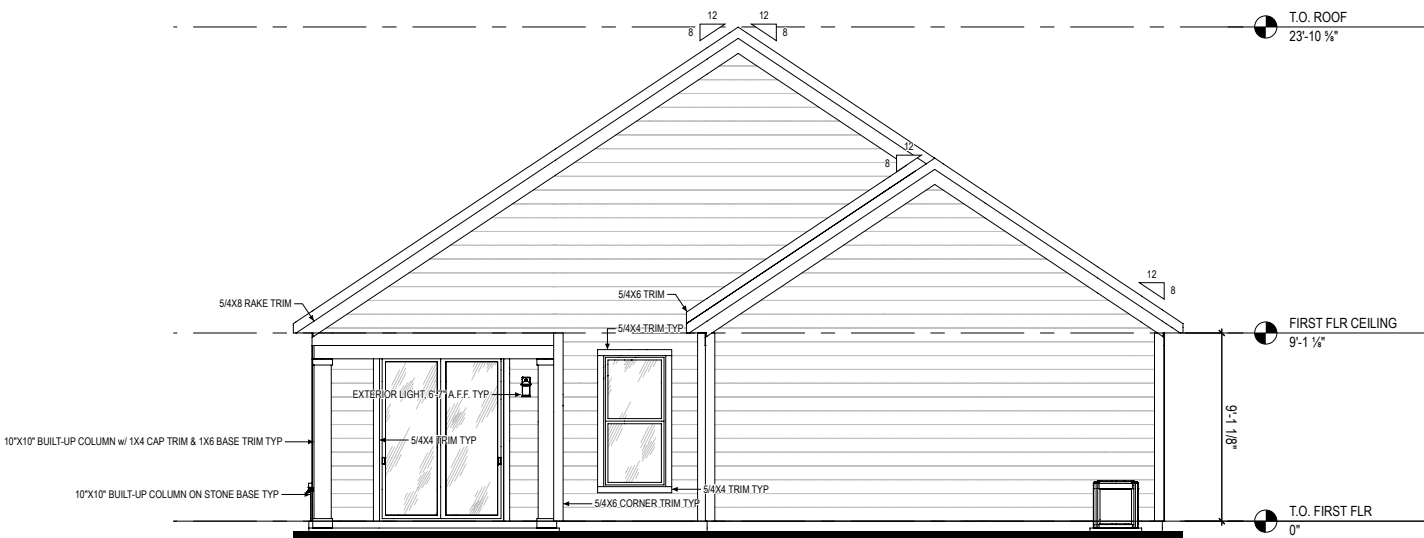
D Ranch



Epcon Indianapolis
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Carmel, IN, 46032



1 FRONT ELEV
A-200 1/4" = 1'-0" @ 22" x 34"



2 BACK ELEV
A-200 1/4" = 1'-0" @ 22" x 34"

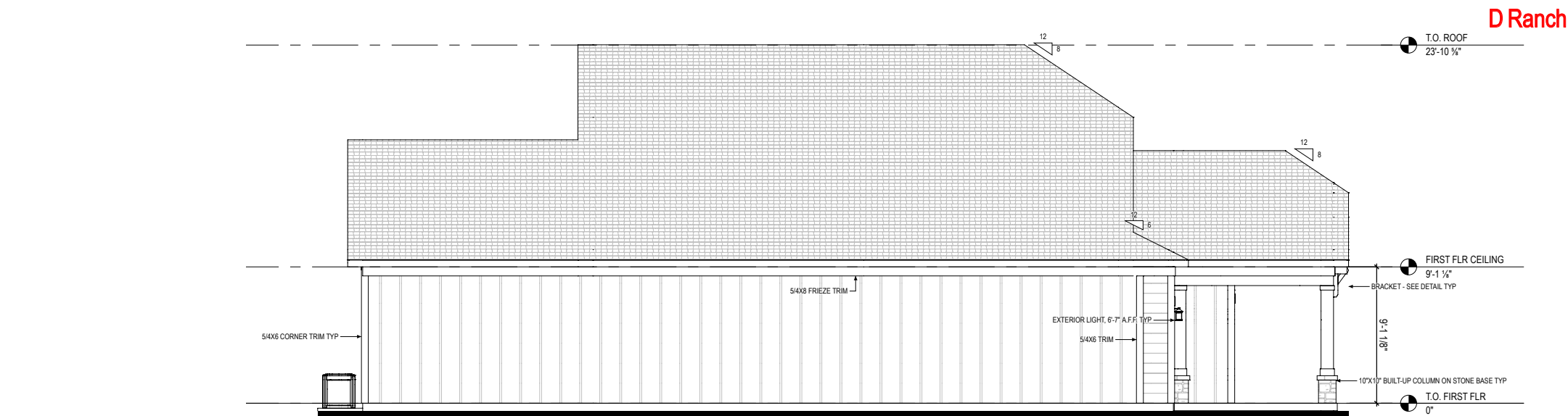
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01	BUILDER SET	2/1/2024

PROJECT
PLAN: Capri (2023)
ELEV: Elevation D
LOT:

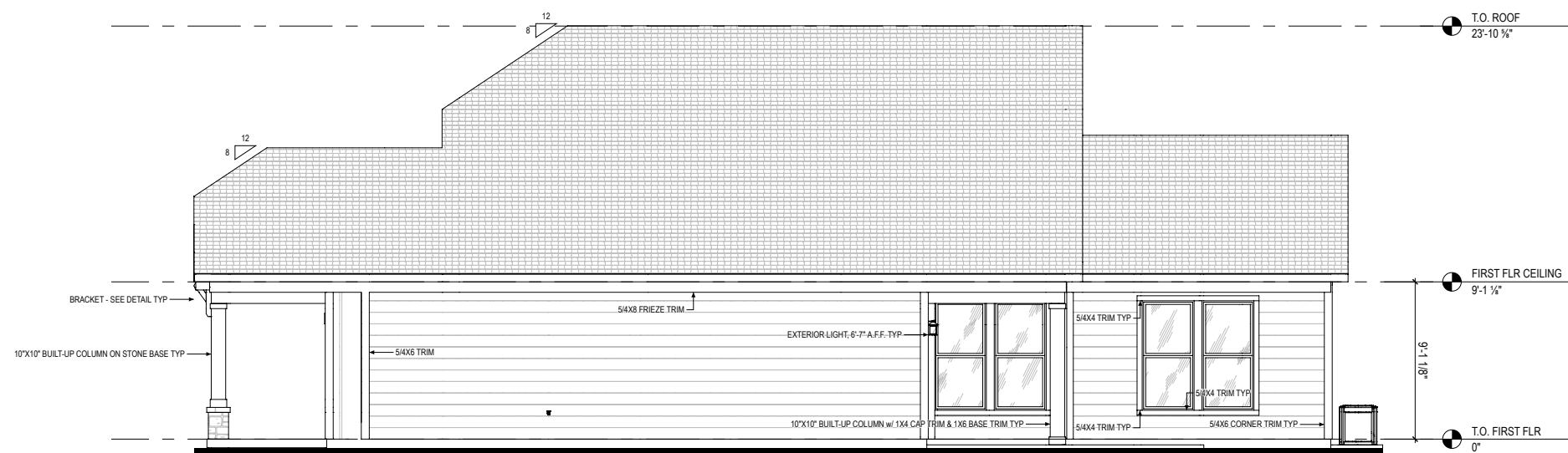
LOT ADDRESS:

DRAWING TITLE
FRONT / BACK
ELEVATION

SHEET NUMBER
A-200



1	LEFT ELEV
A-201	1/4" = 1'-0" @ 22" x 34"



2	RIGHT ELEV
A-201	1/4" = 1'-0" @ 22" x 34"

ISSUE	DESCRIPTION	DATE
01	BUILDER SET	2/1/2024

PROJECT

PLAN: Capri (2023)

ELEV: Elevation D

LOT:

LOT ADDRESS:

DRAWING TITLE

**LEFT / RIGHT
ELEVATION**

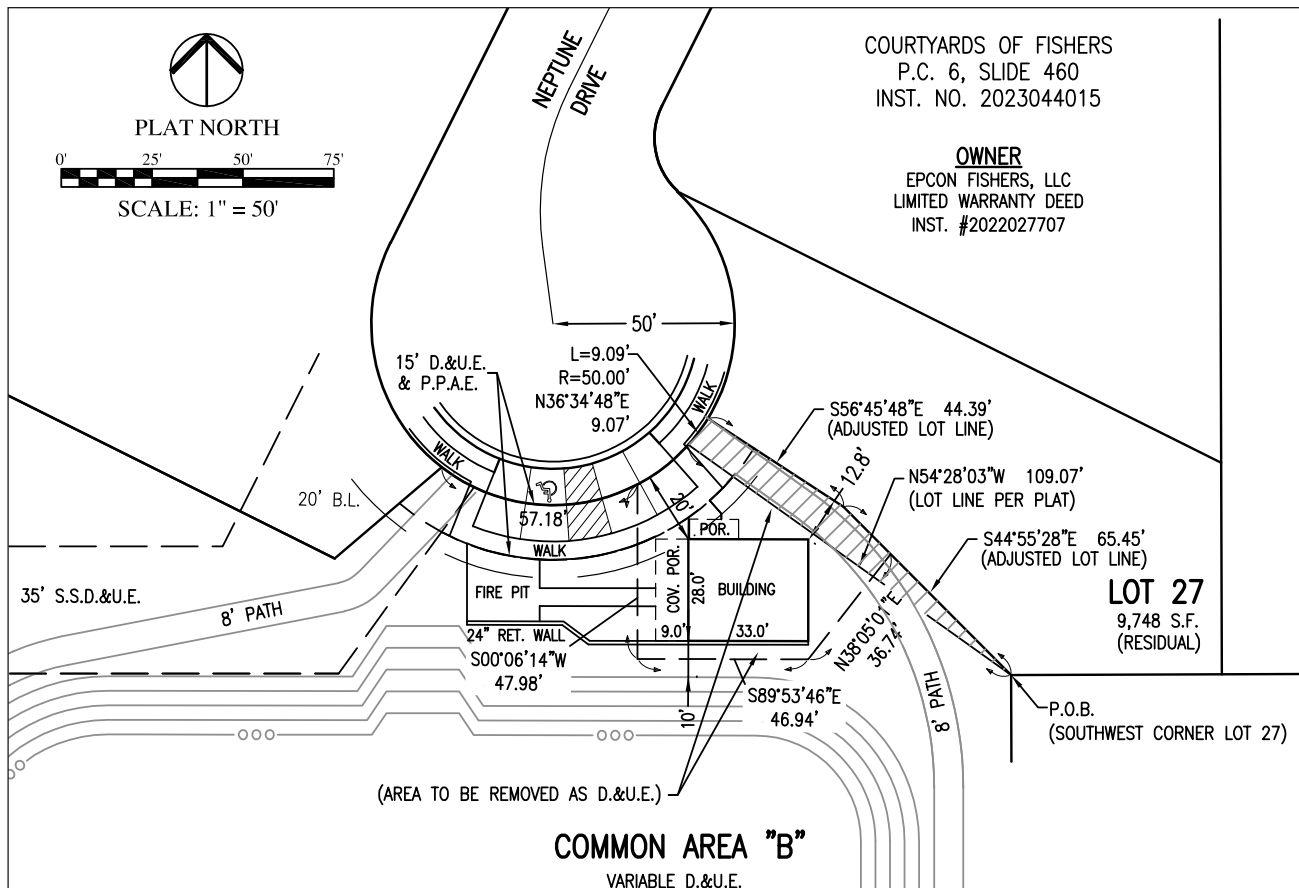
SHEET NUMBER

A-201

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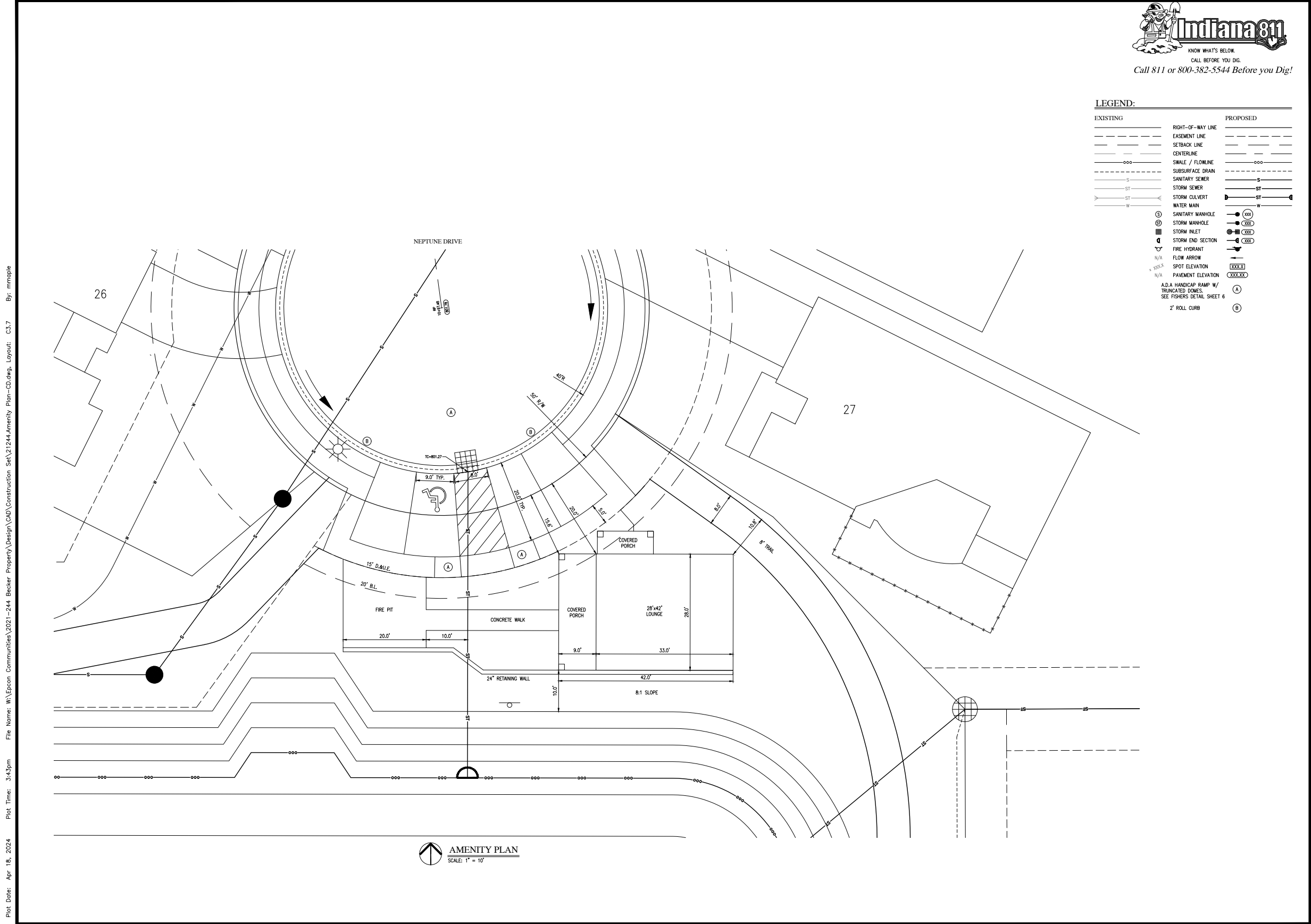
LOUNGE - ILLUSTRATIVE ARCHITECTURE

THE COURTYARDS OF FISHERS PUD



LOUNGE - AMENITY SITE PLAN

THE COURTYARDS OF FISHERS PUD



LEGEND:

EXISTING	RIGHT-OF-WAY LINE	PROPOSED
---	EASEMENT LINE	---
---	SETBACK LINE	---
---	CENTERLINE	---
---	SWALE / FLOWLINE	---
---	SUBSURFACE DRAIN	---
S	SANITARY SEWER	S
ST	STORM SEWER	ST
ST	STORM CULVERT	ST
W	WATER MAIN	W
⊙	SANITARY MANHOLE	⊙
⊙	STORM MANHOLE	⊙
⊙	STORM INLET	⊙
⊙	STORM END SECTION	⊙
⊙	FIRE HYDRANT	⊙
N/A	FLOW ARROW	N/A
N/A	SPOT ELEVATION	N/A
N/A	PAVEMENT ELEVATION	N/A
	A.D.A. HANDICAP RAMP W/ TRUNCATED DOMES. SEE FISHERS DETAIL SHEET 6	(A)
	2' ROLL CURB	(B)

REVISIONS

DATE	DESCRIPTION	BY
4/7/11	REVISED	
2024		



COURTYARDS OF FISHERS
FISHERS, INDIANA
AMENITY PLAN



DRAWN BY	TD/MM
CHECKED BY	MM
DATE	SEPTEMBER 1, 2022
SCALE	AS SHOWN
SHEET	

C3.7
AMENITY PLAN



North Elevation

Scale: 1/4" = 1'-0"



West Elevation

Scale: 1/4" = 1'-0"

MAIN/Architects
Designers and Planners
310 S. Main Street • Sheridan, Indiana 46069 • 317.758.6138

PROJECT
The Lodge Community Building
Fishers, Indiana

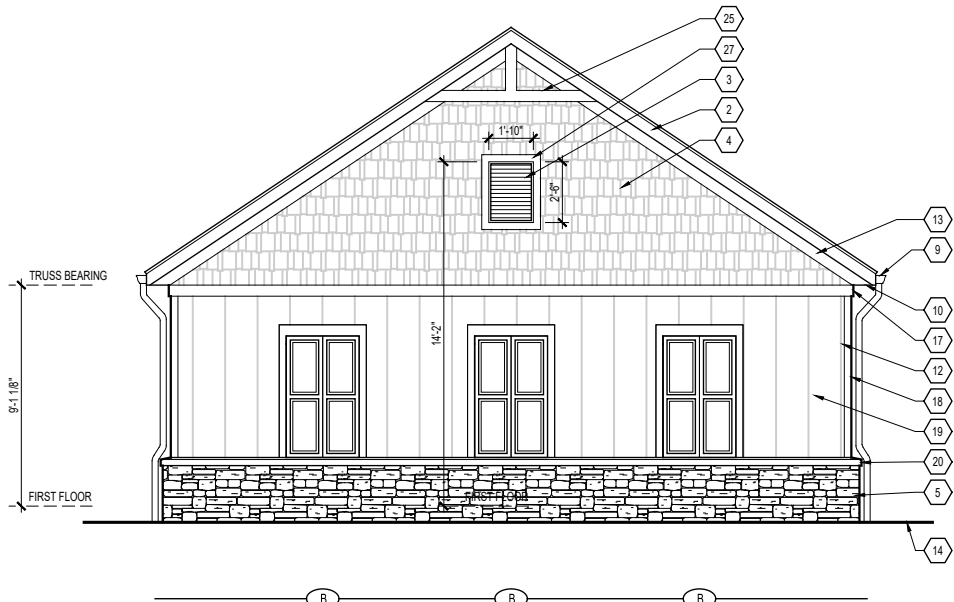
DATE
April 9, 2024

REVISIONS

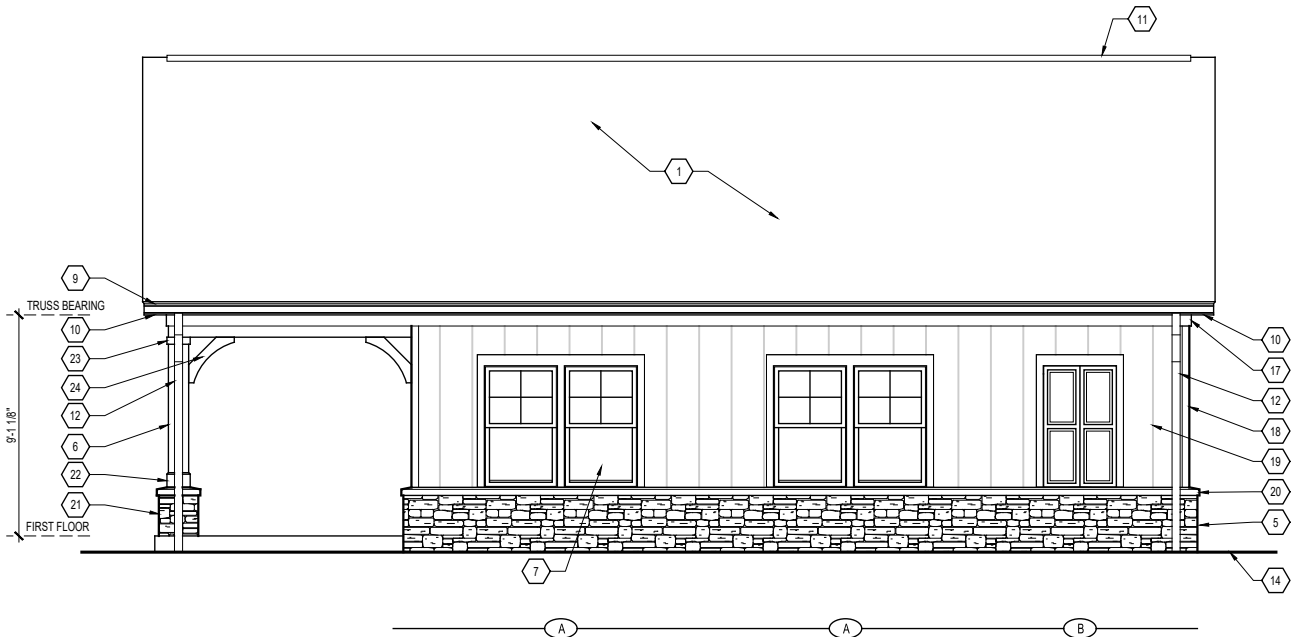


LOUNGE - ELEVATIONS

THE COURTYARDS OF FISHERS PUD



C Rear Elevation
Scale: 1/4" = 1'-0"



B Right Side Elevation
Scale: 1/4" = 1'-0"

- EXTERIOR ELEVATION CODED NOTES**
(CLUBHOUSE ELEVATION SHEETS ONLY)
1. FIBERGLASS / ASPHALT SHINGLE ROOFING.
 2. ALUMINUM CLAD WOOD RAKE EXTENSION - SEE WALL SECTIONS.
 3. DECORATIVE LOUVER BY FYPON (OR EQUAL). SEE ELEVATION FOR SIZE, SHAPE, AND MOUNTING HEIGHT.
 4. FIBER CEMENT SHAKE SIDING.
 5. CULTURED STONE VENEER, COLOR, STYLE, MORTAR COLOR, COURSING & JOINT STYLE TO BE SELECTED BY THE OWNER.
 6. 10" SQUARE BUILT-UP COLUMN - SEE DETAIL X ON SHEET A.30X FOR MORE INFORMATION.
 7. VINYL WINDOW UNIT - SEE WINDOW DETAILS ON SHEET A.401 FOR SIZE AND TRIM INFORMATION.
 8. PRE-HUNG INSULATED METAL ENTRY DOOR - PAINTED. SEE DOOR SCHEDULE FOR MORE INFORMATION.
 9. 5" ALUMINUM OGEE GUTTER ON 2 X 6 ALUMINUM CLAD WOOD SUB FASCIA - TYPICAL.
 10. VENTED ALUMINUM SOFFIT (TYPICAL) - SEE TYPICAL WALL SECTIONS FOR MORE DETAILS.
 11. CONTINUOUS RIDGE VENT LOCATION.
 12. DOWNSPOUT LOCATION.
 13. 5/4 X 6 RAKE TRIM AT FACE OF WALL.
 14. APPROXIMATE LINE OF GRADE - TO BE COORDINATED WITH BUILDER PRIOR TO START OF CONSTRUCTION - MAINTAIN MINIMUM 8" BELOW FIRST FLOOR.
 15. ADDRESS PLAQUE - USE DOUBLE-THICKNESS TRIM AS BACKING. MOUNT TOP @ 5'-0" A.F.F. AND CENTER ON WALL - TYPICAL.
 16. EXTERIOR LIGHT FIXTURE - MOUNT TOP @ 7'-6" A.F.F. AT TYPICAL DOOR LOCATIONS. G.C. TO COORDINATE OTHER MOUNTING HEIGHTS AS NEEDED.
 17. 5/4 X 6 FRIEZE BOARD TRIM.
 18. 5/4 X 4 CORNER TRIM - RIP ONE SIDE TO ACHIEVE 3 1/2" DIMENSION EACH SIDE OF CORNER.
 19. BOARD AND BATTEN SIDING.
 20. CULTURED STONE BELT COURSE.
 21. CULTURED STONE VENEER ON COLUMN BASE ON CONCRETE BLOCK WITH COLUMNS ON TOP. SEE DETAIL X ON SHEET A.30X AND WALL SECTION X ON SHEET A.30X.
 22. 1 X 8 PAINTED COLUMN BASE TRIM WITH BEVELED TOP EDGE.
 23. 1 X 4 PAINTED COLUMN CAP TRIM.
 24. KNEE BRACE - FYPON BKTGV18X24X6S - PAINTED.
 25. POST & BEAM GABLE ACCENT - SEE DETAIL X ON SHEET X-X.
 26. GARAGE DOOR WITH WINDOW PANELS.
 27. 5/4 X 4 TRIM.
 28. 5/4 X 6 HEAD TRIM.
- ALL SIDING & TRIM TO BE LOUISIANA PACIFIC "SMART SIDE" CEDAR GRAIN TEXTURE - SIZES AS INDICATED. TRIM IN DIRECT CONTACT WITH CONCRETE TO BE PVC PRODUCT EQUIVALENT.



Building Prototypes
Building Prototypes
000 Your Street
City State & Zip

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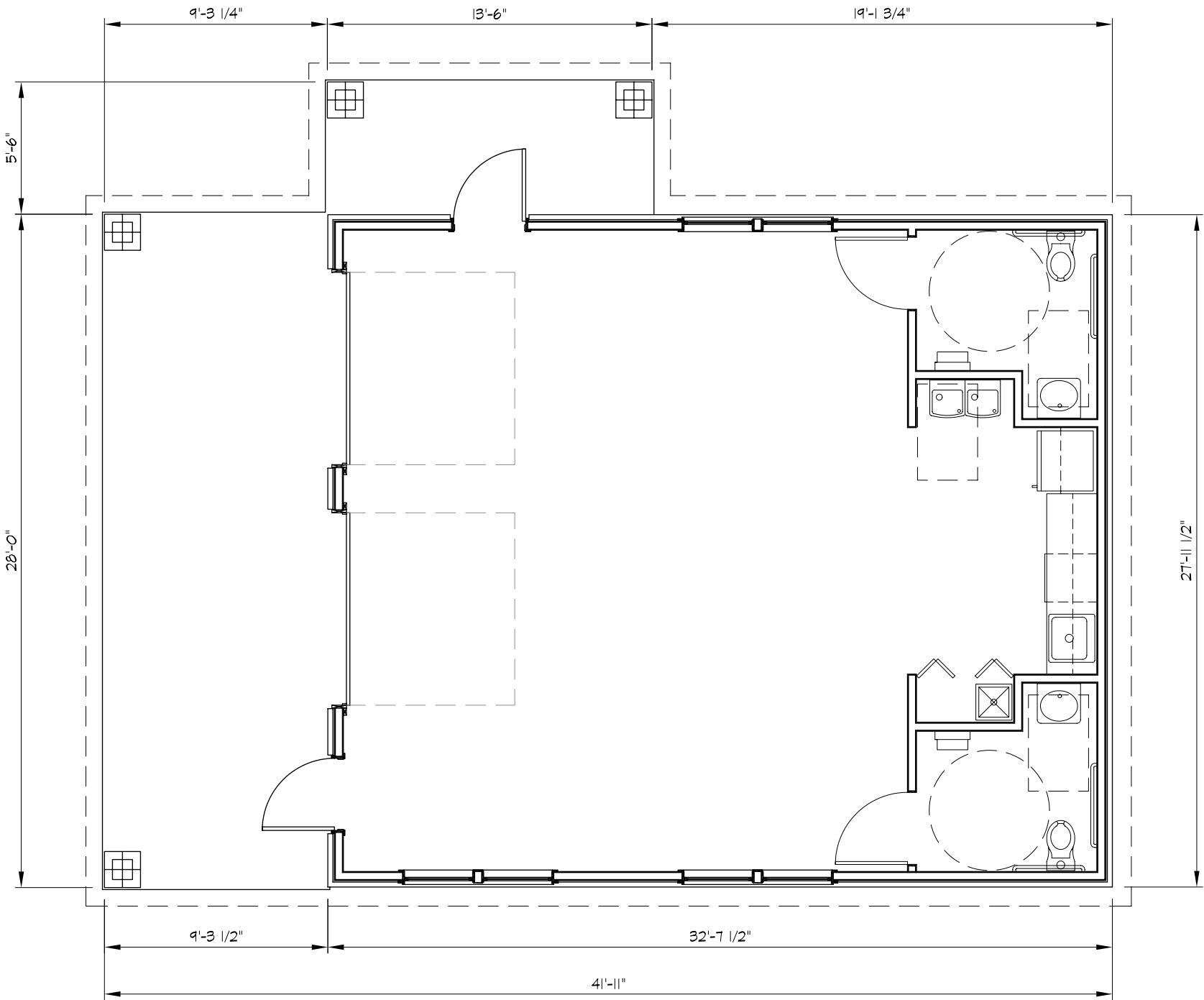
Prototype Disk No.	Interim Page Revisions	
	Revision	Date
2023		5/1/2023

Architect Project Number

Community Dates & Revisions	
Date Originated	
Bid	
Permit	
Construction	
Revisions	
△	△
△	△
△	△

Drawing Title
Exterior Elevations

Architectural Style
Craftsman
Sheet Number
A.201
'The Lounge'



Floor Plan

Scale: 1/4" = 1'-0"

MAIN/Architects
Designers and Planners
310 S. Main Street · Sheridan, Indiana 46069 · 317.758.6138

PROJECT
The Lodge Community Building
Fishers, Indiana

DATE
April 9, 2024

REVISIONS



PROVENANCE - ILLUSTRATIVE ARCHITECTURE

THE COURTYARDS OF FISHERS PUD



PROVENANCE - FLOORPLANS	
THE COURTYARDS OF FISHERS PUD	

PROVENANCE - FLOORPLANS	
THE COURTYARDS OF FISHERS PUD	



BONUS SUITE

Although all floor plans, illustrations, and specifications are believed correct at the time of publication, the right is reserved to make changes, without notice or obligation. Dimensions and layout may vary. This information is for illustrative purposes only and not part of a legal contract.

Provenance

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PROMENADE III - ILLUSTRATIVE ARCHITECTURE

THE COURTYARDS OF FISHERS PUD



PROMENADE III - FLOORPLANS

THE COURTYARDS OF FISHERS PUD



*Optional courtyard features shown: Artificial turf, Landscaping, Trellis/Pergola, Plant walls (2), Water feature, and Stepping stone paths (Piazza & Portico only)

PROMENADE III
REV. 04.21
2019 IP86, LLC

PORTICO - ILLUSTRATIVE ARCHITECTURE

THE COURTYARDS OF FISHERS PUD



PORTICO - FLOORPLANS

THE COURTYARDS OF FISHERS PUD



*Optional courtyard features shown: Artificial turf, Landscaping, Trellis/Pergola, Plant walls (2), Water feature, and Stepping stone paths (Palazzo & Portico only)

PORTICO
REV. 04.21

PALAZZO - ILLUSTRATIVE ARCHITECTURE

THE COURTYARDS OF FISHERS PUD



PALAZZO - FLOORPLANS

THE COURTYARDS OF FISHERS PUD



*Optional courtyard features shown: Artificial turf, Landscaping, Trellis/Pergola, Plant walls (2), Water feature, and Stepping stone paths (Palazzo 4 Portico only)

PALAZZO
REV. 04.21

ILLUSTRATIVE COURTYARD EXHIBIT

THE COURTYARDS OF FISHERS PUD



EXTERIOR MATERIALS SAMPLE BOARD

THE COURTYARDS OF FISHERS PUD



The Courtyards of Fishers

Tan-1 Color Palette

Sherwin Williams:
Web Gray



Sherwin Williams:
Sculpture Gray

Accents - Louvers/Brackets



Sherwin Williams:
Black Fox

Accents - Shutters
Accents - Front Door



CertainTeed - Dimensional Landmark
Driftwood



Desert Tan



Gutters
Soffit
Fascia



Tan

Windows



Desert Sand



The Courtyards of Fishers

Tan-2 Color Palette

Sherwin Williams:
Tavern Taupe



Sherwin Williams:
Sculpture Gray

Accents - Louvers/Brackets



Sherwin Williams:
Rookwood Shutter Green

Accents - Shutters
Accents - Front Door



CertainTeed - Dimensional Landmark
Driftwood



Desert Tan



Gutters
Soffit
Fascia



Tan

Windows



Desert Sand

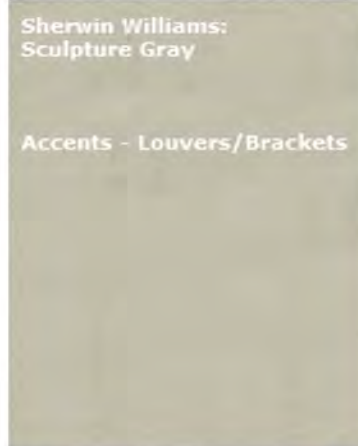
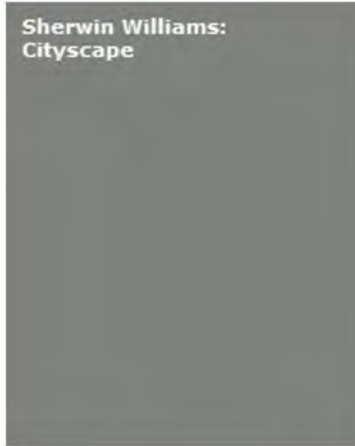
EXTERIOR MATERIALS SAMPLE BOARD

THE COURTYARDS OF FISHERS PUD



The Courtyards of Fishers

Tan-6 Color Palette



CertainTeed - Dimensional Landmark
Driftwood



Desert Tan



Gutters
Soffit
Fascia



Tan

Windows



Desert Sand



The Courtyards of Fishers

Tan-7 Color Palette



CertainTeed - Dimensional Landmark
Driftwood



Desert Tan



Gutters
Soffit
Fascia



Tan

Windows



Desert Sand

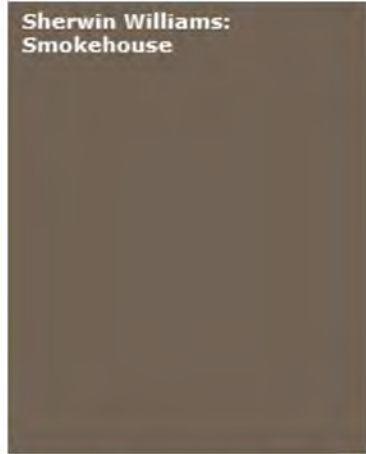
EXTERIOR MATERIALS SAMPLE BOARD

THE COURTYARDS OF FISHERS PUD



The Courtyards of Fishers

Tan-8 Color Palette



CertainTeed - Dimensional Landmark Driftwood



Taupe



Gutters
Soffit
Fascia



Sandstone

Windows



Desert Sand



The Courtyards of Fishers

Tan-9 Color Palette



CertainTeed - Dimensional Landmark Driftwood



Taupe



Gutters
Soffit
Fascia



Sandstone

Windows



Desert Sand

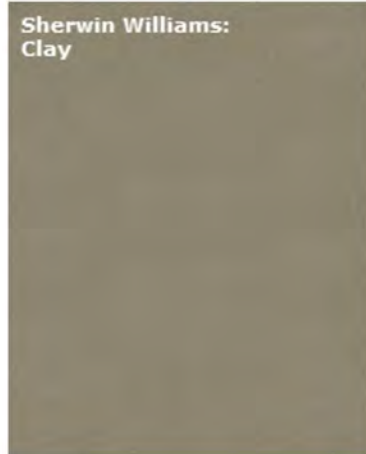
EXTERIOR MATERIALS SAMPLE BOARD

THE COURTYARDS OF FISHERS PUD



The Courtyards of Fishers

Tan-10 Color Palette

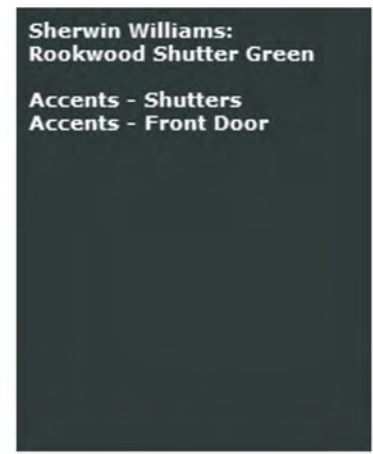


Sherwin Williams:
Clay



Sherwin Williams:
Sculpture Gray

Accents - Louvers/Brackets



Sherwin Williams:
Rookwood Shutter Green

Accents - Shutters
Accents - Front Door



CertainTeed - Dimensional Landmark
Driftwood



Desert Tan



Garage Door

Gutters
Soffit
Fascia



Tan

Windows

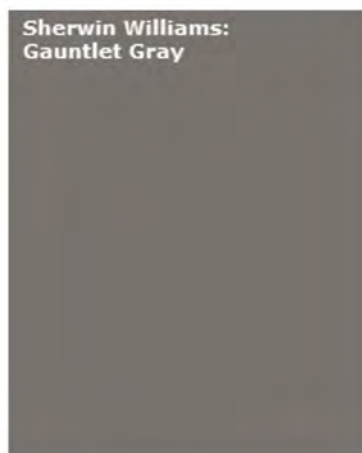


Desert Sand



The Courtyards of Fishers

Tan-11 Color Palette



Sherwin Williams:
Gauntlet Gray



Sherwin Williams:
Sculpture Gray

Accents - Louvers/Brackets



Sherwin Williams:
Dark Night

Accents - Shutters
Accents - Front Door



CertainTeed - Dimensional Landmark
Driftwood



Desert Tan



Garage Door

Gutters
Soffit
Fascia



Tan

Windows



Desert Sand

EXTERIOR MATERIALS SAMPLE BOARD

THE COURTYARDS OF FISHERS PUD



The Courtyards of Fishers

Masonry Choices

Masonry Choice 1

Stone: Environmental Stoneworks
Epcon Custom Color



Masonry Choice 2

Stone: Environmental Stoneworks
Dakota Cutstone

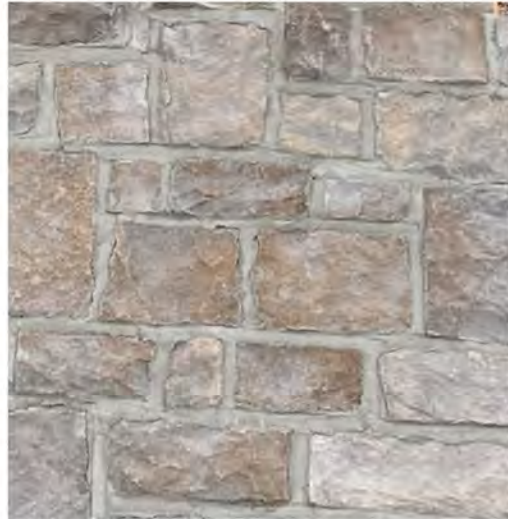


Exhibit B.3 – Illustrative Architectural Exhibit



Exhibit B.4 – Additional Architectural Exhibit





Planned Unit Development (PUD)

Committee Staff Report

Meeting Date: May 1, 2024

DEPARTMENT CONTACT:

Gabrielle Herin (hering@fishers.in.us)

CASE NUMBER:

PUD-24-7

PETITIONER:

Mark Leach on behalf of EPCON Communities

PROPERTY ADDRESS/LOCATION:

13-16-05-00-12-020.000

REQUEST: Consideration of the new Capri home and Lounge clubhouse elevations within the Courtyards of Fishers PUD, generally located north of E. 113th Street and west of Southeastern Parkway.

APPLICABLE REGULATIONS:

Courtyards of Fishers PUD and UDO where applicable

EXISTING ZONING:

Courtyards of Fishers PUD

FISHERS 2040:

Low Density Suburban Residential

LOCATION MAP

STAFF RECOMMENDATION

☐ Approve

☒ Approve with Conditions

☐ Continue

☐ Deny

ZONING HISTORY:

The property is currently zoned Courtyards of Fishers PUD, Ord. No. 122021A and was approved by the City Council in February 2022. Totalling 8.77 acres, the development is generally located north of E. 113th Street and west of Southeastern Parkway.

Courtyards of Fishers PUD primarily consists of single-family homes.



North: R2 Residential (Single-Family), ER Residential (Agricultural Land)

East: R2 Residential (Single-Family)

South: ER Residential (Woods, Agricultural Land), R2 Residential (Woods)

West: PUD Residential (Single-Family)

PETITION OVERVIEW:

As part of the PUD process, the PUD Committee approved home elevations at the February 9, 2022, PUD Committee Meeting (PUD-21-25). EPCON Communities has requested to add additional home elevations.

Home models/elevations approved include:

- Provenance A, B, C (1-story with optional 2nd floor bonus suite)

PUD-24-7
May 1, 2024

- Promenade III A, B, C, D (1-story with optional 2nd floor bonus room)
- Portico A, B, C (1-story with optional 2nd floor bonus suite)
- Palazzo A, B, C (1-story with optional 2nd floor bonus suite)



Approved Home Elevations for Courtyards of Fishers

PUD-24-7
May 1, 2024

EPCON Communities requests approval of the following home model/elevations:

- Capri A, B, C, D (1 story with optional 2nd floor bonus suite or room) *Elevation D does not offer 2nd floor bonus room or suite.



Capri A Ranch



Capri A Bonus



Capri B Ranch



Capri B Bonus



Capri C Ranch



Capri C Bonus



Capri D Ranch

STAFF COMMENTS:

Capri:

All Capri home elevations include multiple roof line modulations and some level of masonry. Additionally, all front porches appear to be in front of the garage.



Capri A Ranch and A Bonus



Capri B Ranch and B Bonus



Capri C Ranch and C Bonus



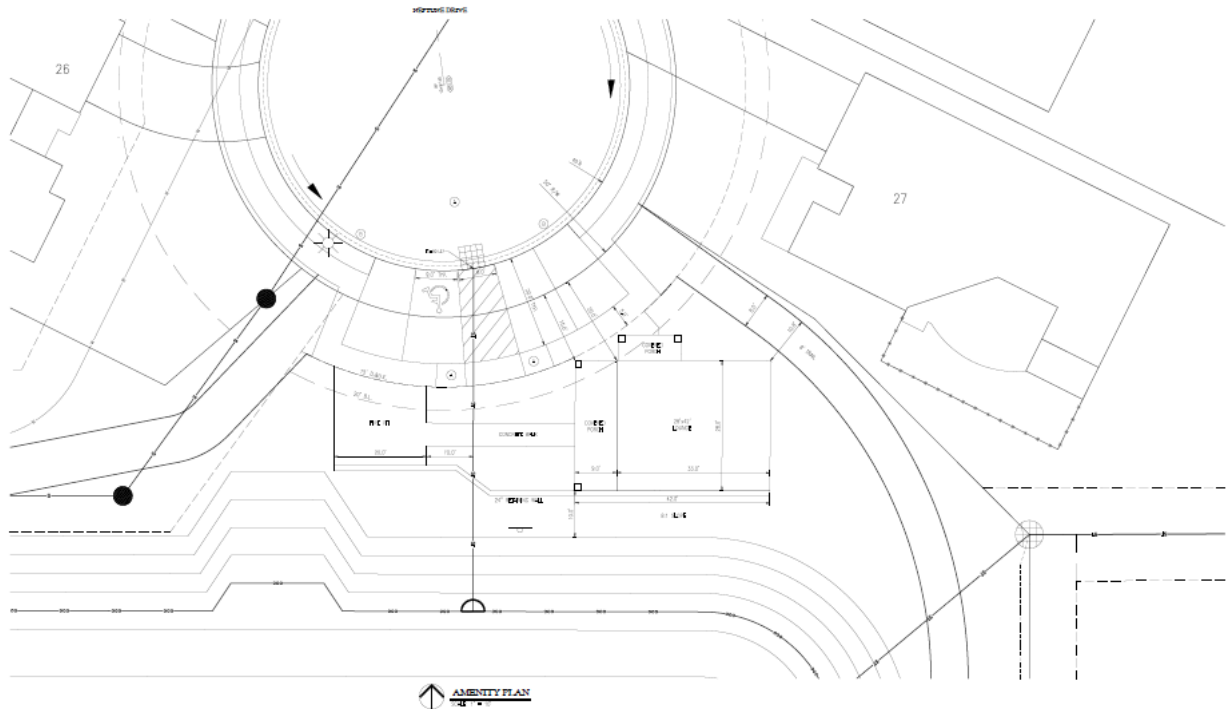
Capri D Ranch

Staff's review compared the new model with the seven (7) elevations against the previously approved four (4) models with 24 elevations including review of roof modulations, amount of brick on front elevation, and material.

EPCON Communities would like to replace the pavilion north of the retention pond with a clubhouse called The Lounge.



The Lounge



Site Plan showing location and orientation of The Lounge. Site plan may change.

STAFF COMMENTS:

Lounge:

The Lounge elevation includes similar materials as approved by the Courtyards of Fishers PUD, with brick at the base of each pillar on the front elevation and a brick wainscot along the sides and rear.

Staff's review compared the materials of the clubhouse with those used in the approved home elevations of the PUD.

PUD-24-7
May 1, 2024

Staff recommends the following conditions of approval.

- Capri home elevations, approve as presented.
- Lounge clubhouse elevations; approve as presented.
- The site plan for the clubhouse will be revised based on City standards.

STAFF RECOMMENDATION

☐ Approve ☒ Approve with Conditions ☐ Continue ☐ Deny



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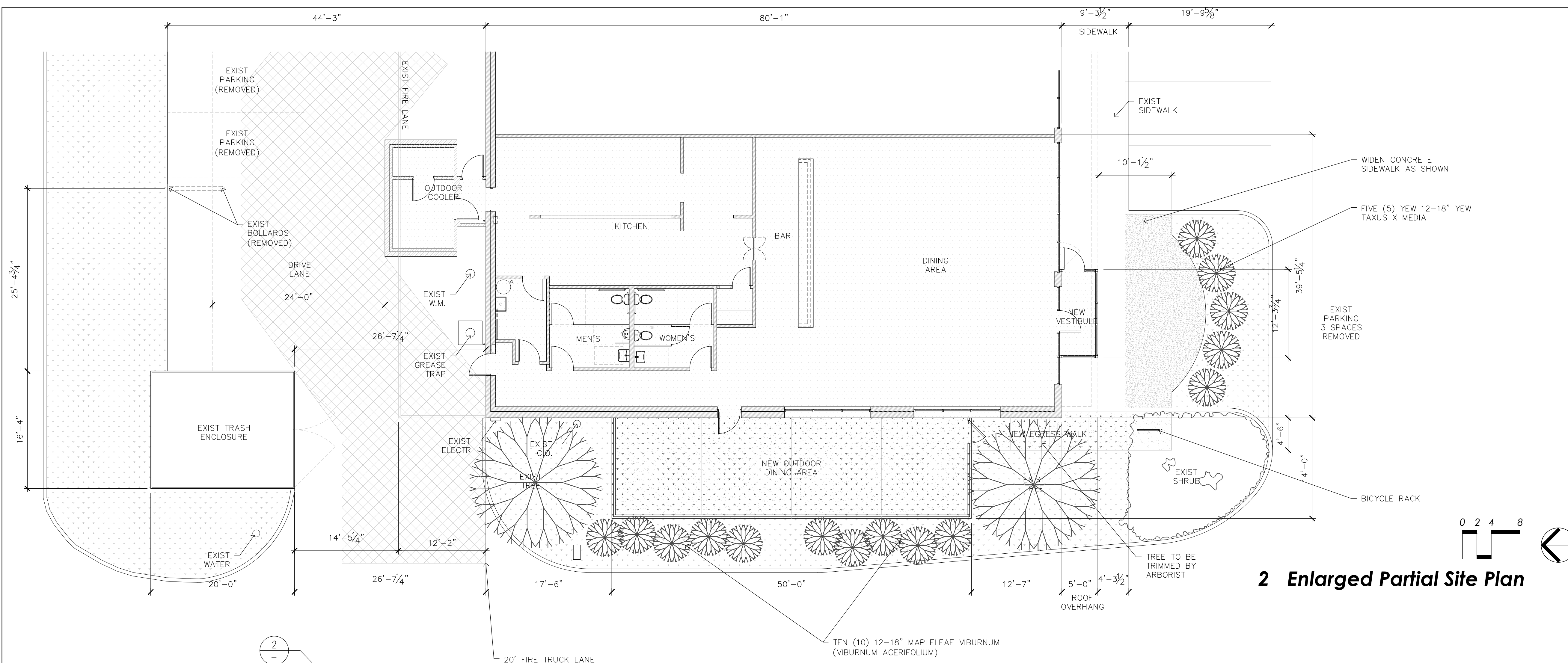
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Approx.3,158 SF

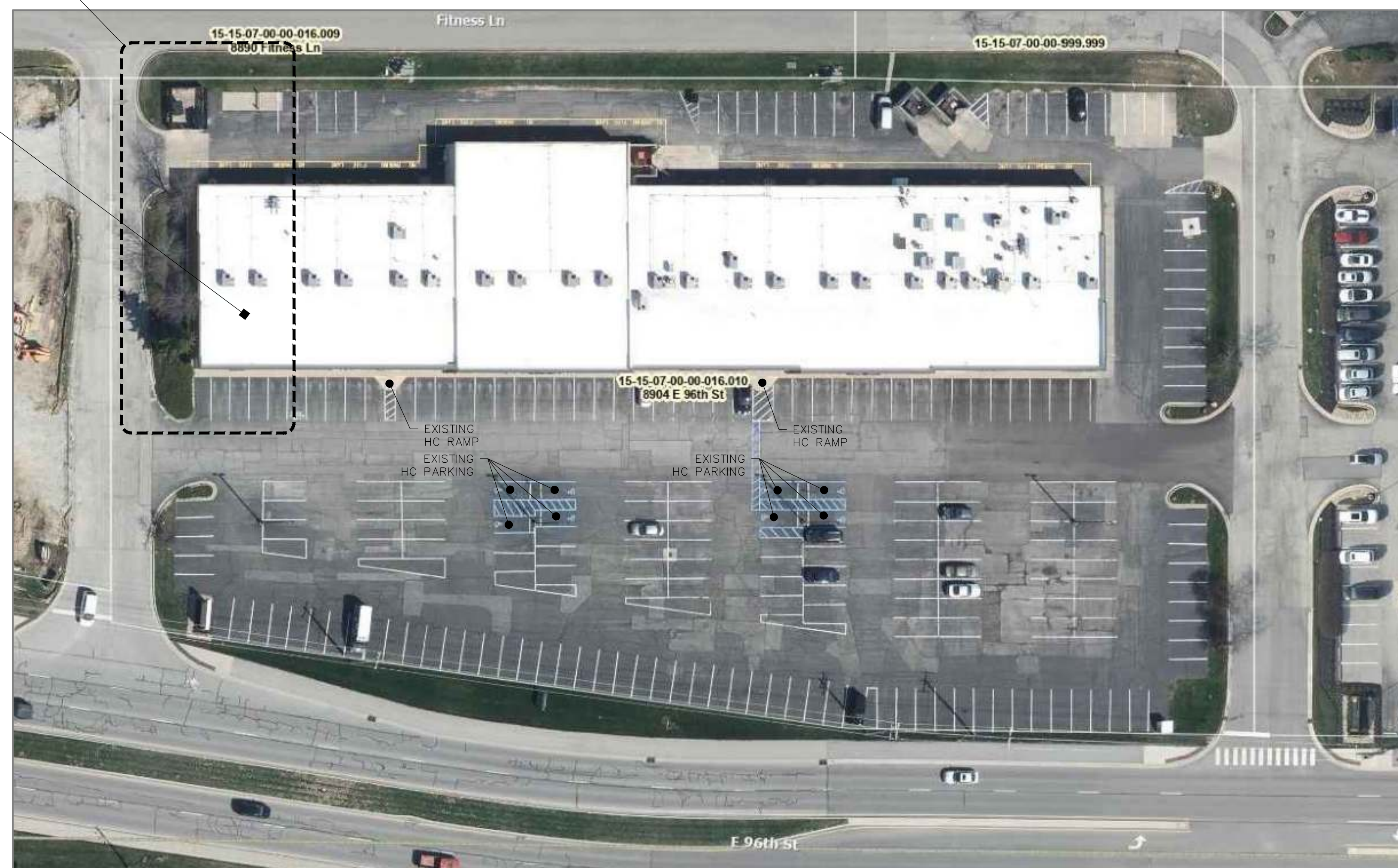
3.26.2024	REVISION
2.26.2024	OWNER REVIEW
Date Issued	Issued For

Site Plan

Page 224 of 292



2 Enlarged Partial Site Plan



1 Aerial Site Plan

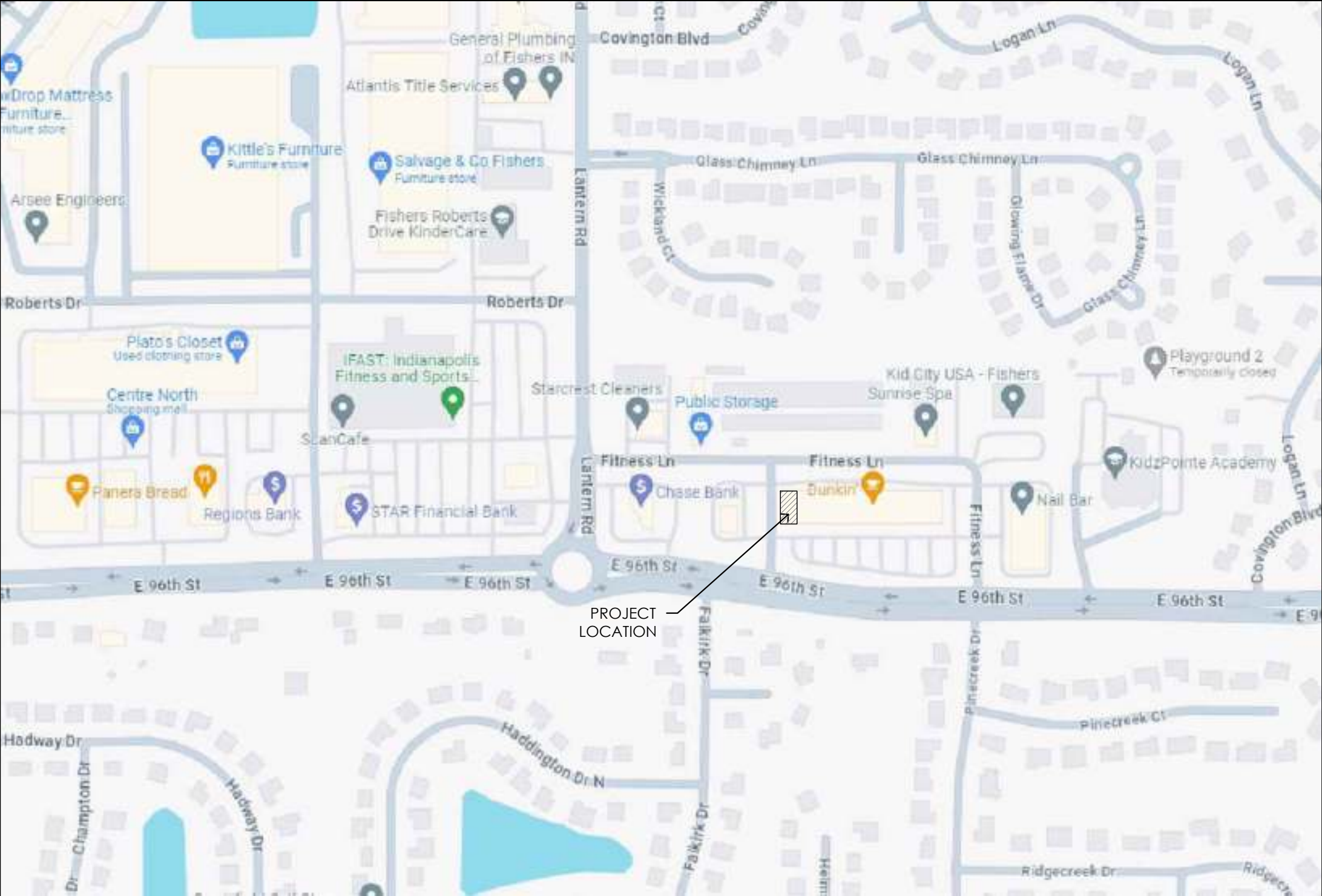
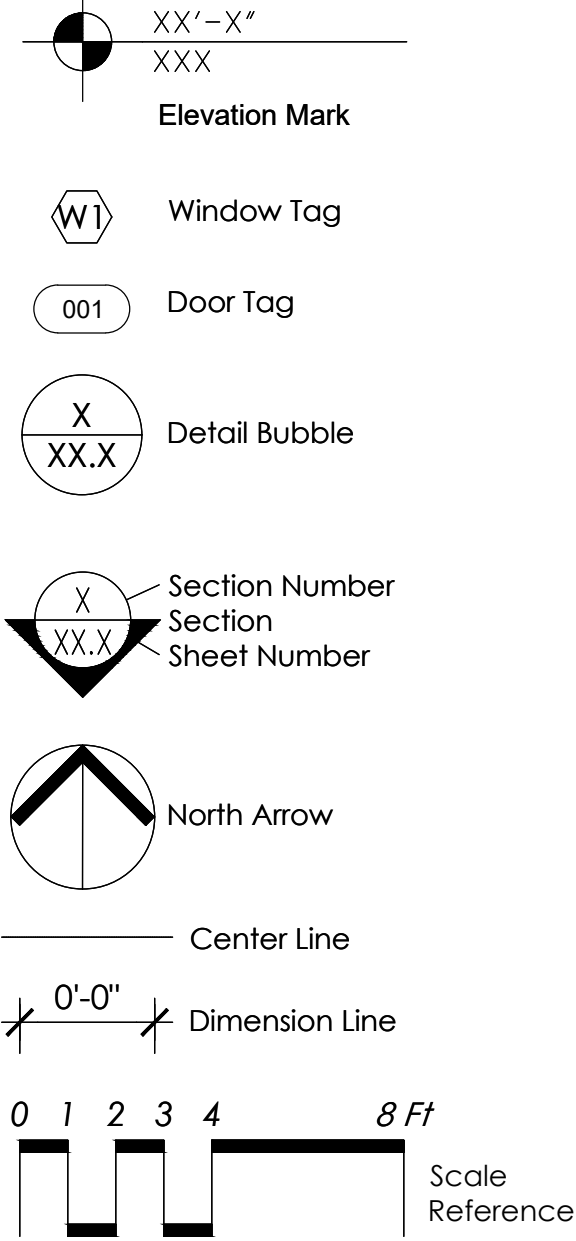
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FILE C:\FIVE2FIVE\DESIGN\PROJECTS\2024\200 LINCOLN SQUARE FISHERS\DRAWINGS\200 SHEET C0.1 COVER.DWG
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A.F.F.	ABOVE FINISH FLOOR	FLR.	FLOOR	PR.	PAIR
ACOUS.	ACOUSTICAL	FRP.	FIBERGLASS REINF. PANEL	PREP.	PREPARATION
ANOD.	ANODIZED	PL.	PLASTIC	PTD.	PAINTED
BD.	BOARD	FSE.	FOOD SERVICE EQUIP.	Q.T.	QUARRY TILE
CAB.	CABINET	FV.	FIELD VERIFY	R.A.	RETURN AIR
CLG.	CEILING	GA.	GAUGE	RAD.	RADIUS
CLOS.	CLOSET	GALV.	GALVANIZED	REF.	REFERENCE
CLR.	CLEAR	G.C.	GENERAL CONTRACTOR	RECPT.	RECEPTACLE
CMU	CONC. MASONRY UNIT	GL.	GLASS	REINF.	REINFORCED
CNTR.	COUNTER	GYP. BD.	GYPSUM BOARD	REQ'D.	REQUIRED
COL.	COLUMN	H.C.	HANDICAP	R.O.	ROUGH OPENING
CONC.	CONCRETE	H.M.	HOLLOW METAL	S.C.	SOLID CORE
CONT.	CONTINUOUS	HT.	HEIGHT	S/S	STAINLESS STEEL
C.T.	CERAMIC TILE	INT.	INTERIOR	SCHED.	SCHEDULE
DBL.	DOUBLE	JST.	JOIST	SIM.	SIMILAR
DN.	DOWN	LAM.	LAMINATED	STD.	STANDARD
DR.	DOOR	LAV.	LAVATORY	STL	STEEL
DTL.	DETAIL	MFR.	MANUFACTURER	STRUCT.	STRUCTURAL
DWG.	DRAWING	MAX.	MAXIMUM	SUSP.	SUSPENDED
DWR.	DRAWER	MECH.	MECHANICAL	TEMP.	TEMPERED
EA.	EACH	MIN.	MINIMUM	TYP.	TYPICAL
EL.	ELEVATION	MISC.	MISCELLANEOUS	VCT.	VINYL COMPOSITION
ELEC.	ELECTRICAL	MLD.	MOLDING		TILE
ELEV.	ELEVATION	M.O.	MASONRY OPENING	VERT.	VERTICAL
EQ.	EQUAL	MTD.	MOUNTED	VWC.	VINYL WALL COVERING
EXIST.	EXISTING	MUL.	MULLION	W/	WITH
EXT.	EXTERIOR	N.I.C.	NOT IN CONTRACT	W/O	WITHOUT
FBD.	FIBER BOARD	N.T.S.	NOT TO SCALE	W.C.	WATER CLOSET
FBO.	FURNISHED BY OTHERS	O.C.	ON CENTER	WD.	WOOD
FD.	FLOOR DRAIN	O.D.	OUTSIDE DIAMETER	W.H.	WATER HEATER
FE.	FIRE EXTINGUISHER	OPNG.	OPENING	WIN.	WINDOW
FFE.	FURNITURE, FIXTURES & EQUIPMENT	PL.	PLATE	WSCT.	WAINSCOT
		P. LAM.	PLASTIC LAMINATE	WT.	WEIGHT
FIN.	FINISH	PLYWD.	PLYWOOD	W.W.F.	WELDED WIRE FABRIC

Abbreviation Legend



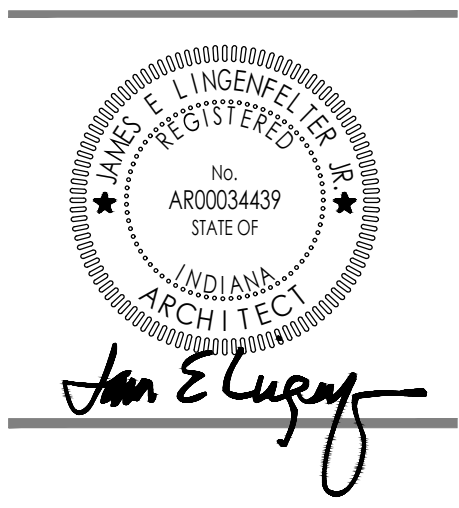
Project Location

Code Information

OCCUPANCY	A2 (Exist and Proposed)
CONSTRUCTION TYPE	II-B (Exist Construction)
TOTAL FLOOR AREA	Approx. 3,158 SF (Tenant)
HEIGHT	1 Story
FIRE PROTECTION	Fully Sprinklered
LOCATION	Lincoln Square Fishers 8902 E. 96th Street Fishers, IN 46037

Tenant Owner:	Chris Katris/S. TwoLLC 5859 Forest Lane Indianapolis, IN 46220
Architect:	Five2Five Design Studio 849 North Senate Ave 222 Indianapolis, IN 46202 317-374-9068 admin@five2fivedesign.com
Project Description:	Restaurant Remodel
Zoning:	Existing
Type of Occupancy:	A2 (Existing)
Type of Construction:	II-B (Fully Sprinklered)
Total Square Feet:	Approx. 3,158 sq. ft.
Remodeled Area	Approx. 3,158 sq. ft.
Total Square Feet - This Submission -	Approx. 3,158 sq. ft.

Five2Five
Design Studio, LLC
Architecture + Planning
846 Senate Ave 222
Indianapolis, IN 46202
317 374 9068
admin@five2fivedesign.com



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Architectural Drawings

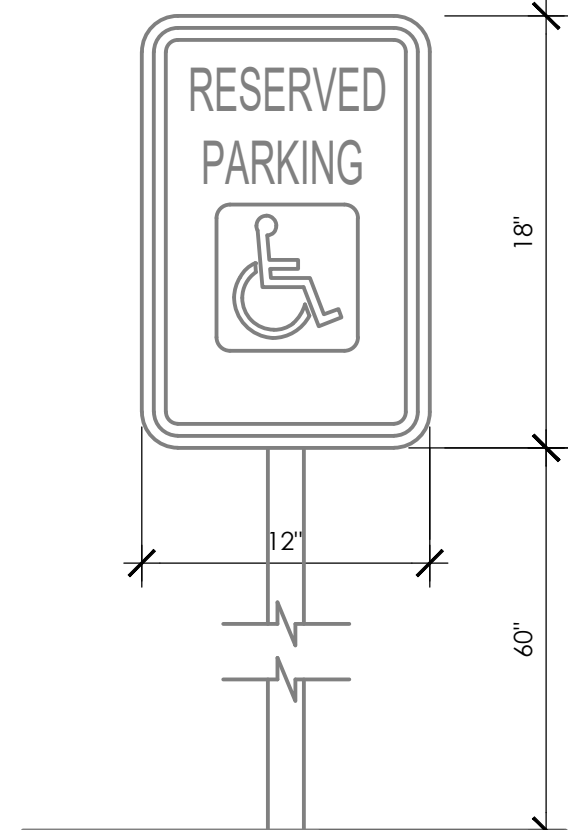
C0.1	Cover/Project Title Sheet
G0.1	Accessibility Sheet 1
G0.2	Accessibility Sheet 2
G0.3	Life Safety Plan
D1.0	Demolition Plan
A0.1	Existing Site Plan Survey (For Reference Only)
A1.0	Site Plan
A1.1	Floor Plan
A1.2	Reflected Ceiling Plan
A1.3	Seating Plan
A3.1	Kitchen/Bar/RR Floor Plan
A3.2	Kitchen Interior Elevations/Equipment Schedule
A3.3	Bar & Restroom Interior Elevations
A3.4	Equipment Schedule
A6.1	Door and Window Schedules
M1.0	HVAC
E1.1	Lighting Plan
E1.2	Power Plan
P1.0	Plumbing Plan

APPLICABLE CODES:

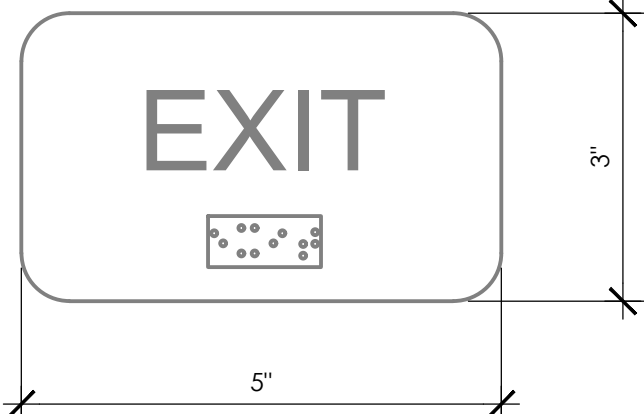
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INDIANA GENERAL ADMINISTRATIVE RULES (GAR)	2014		
(675 INDIANA ADMINISTRATIVE CODE (IAC), ARTICLE 12)			
INDIANA BUILDING CODE (InBC)	2014		
(2012 INTERNATIONAL BUILDING CODE (IBC) 675 IAC 13-2.6 AMENDMENTS)			
'INDIANA ACCESSIBILITY CODES':			
InBC CHAPTER 11 - ACCESSIBILITY (675 IAC 13-2.6-12, CHAPTER 11 REFERENCES ICC/ANSI A117.1-2009 'ACCESSIBLE AND USABLE BUILDINGS')	2014		
FEDERAL ACCESSIBILITY CODES:			
AMERICANS WITH DISABILITIES ACT (ADA) (28 CFR, PART 35 AND PART 36)	2010		
INDIANA FIRE CODE (In.F.C.)	2014		
(2012 INTERNATIONAL FIRE CODE AND 675 IAC 22-2.5 AMENDMENTS)			
INDIANA PLUMBING CODE (In.P.C.)	2012		
(2006 INTERNATIONAL PLUMBING CODE AND 675 IAC 16-1.4 AMENDMENTS)			
INDIANA ELECTRIC CODE (In.E.C.)	2009		
(2008 NFPA 70 NATIONAL ELECTRIC CODE AND 675 IAC 17-1.8 AMENDMENTS)			
INDIANA MECHANICAL CODE (In.M.C.)	2014		
(2012 INTERNATIONAL MECHANICAL CODE AND 675 IAC 18-1.6 AMENDMENTS)			
INDIANA ENERGY CONSERVATION CODE (In.E.C.C.) (ASHRAE 90.1 2007	2010		
AND 675 IAC 19.3 AMENDMENTS)			
INDIANA FUEL GAS CODE (In.F.G.C)	2014		
(2012 INTERNATIONAL FUEL GAS CODE AND IAC 25-3 AMENDMENTS)			
STANDARDS:			
NFPA 72 - NATIONAL FIRE ALARM CODE	2010		
NFPA 90A* - INSTALLATION OF AIR CONDITIONING & VENTILATING SYSTEMS	2006		
NFPA 90B* - INSTALLATION OF WARM AIR HEATING & AIR CONDITIONING SYSTEMS	2003		
* = BY REFERENCE			



ADA Restroom Signage (NTS)



ADA Parking Signage (NTS) (BY OTHERS)



Typ. Exit Sign Detail - Surface Mount (NTS)

Drawing List

6

5

4

3

2

1

REVISIONS		
MARK	DATE	DESCRIPTION

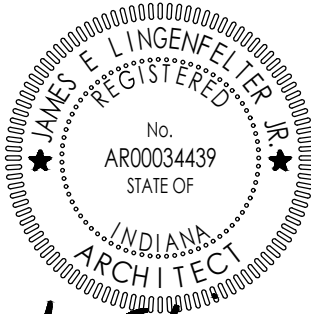


Lincoln Square
Fishers
8902 E. 96th Street
Fishers, IN 46037
Approx.3,158 SF

2.26.2024	OWNER REVIEW
Date Issued	Issued For

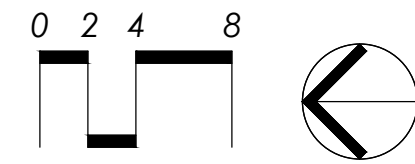
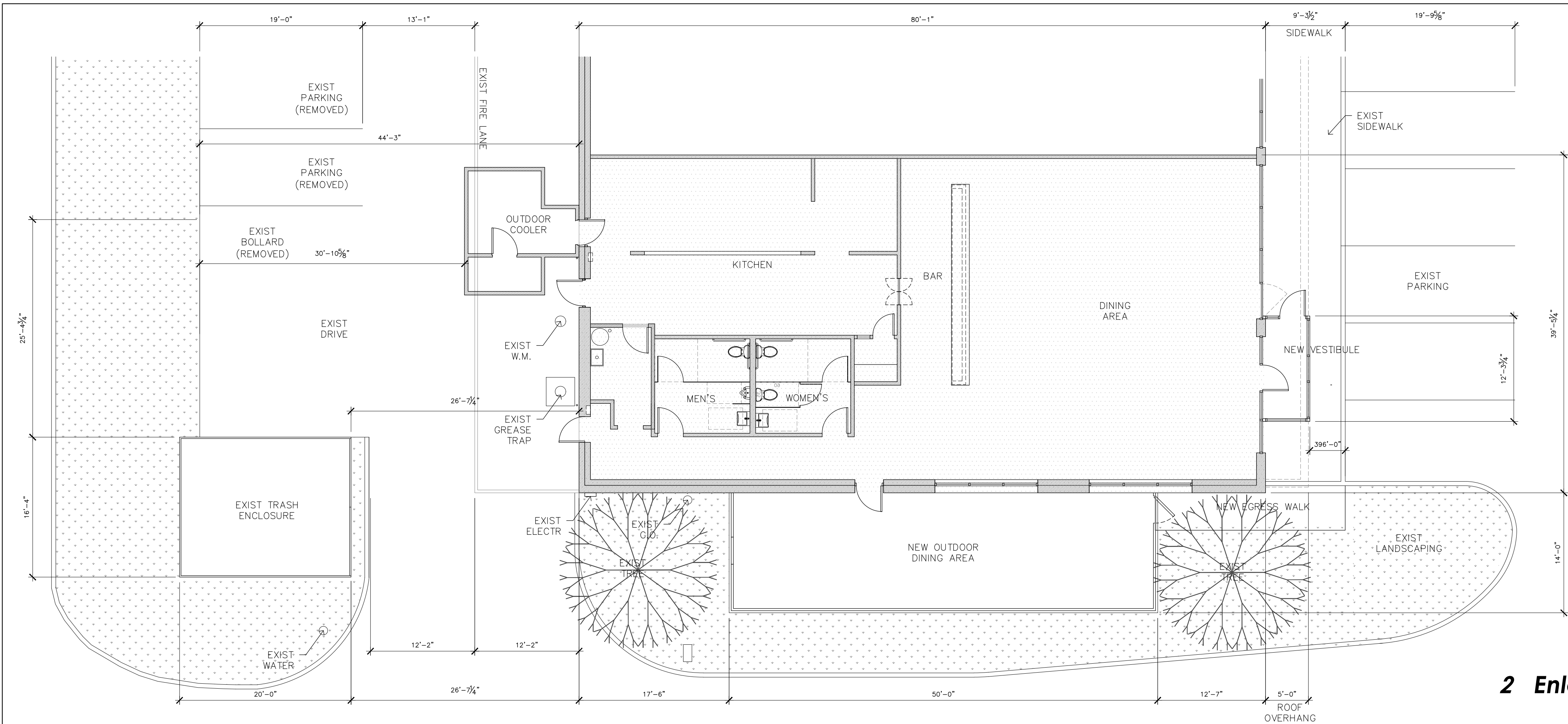
Cover Sheet

C0.1



James E. Lingenfeller

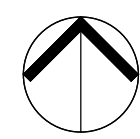
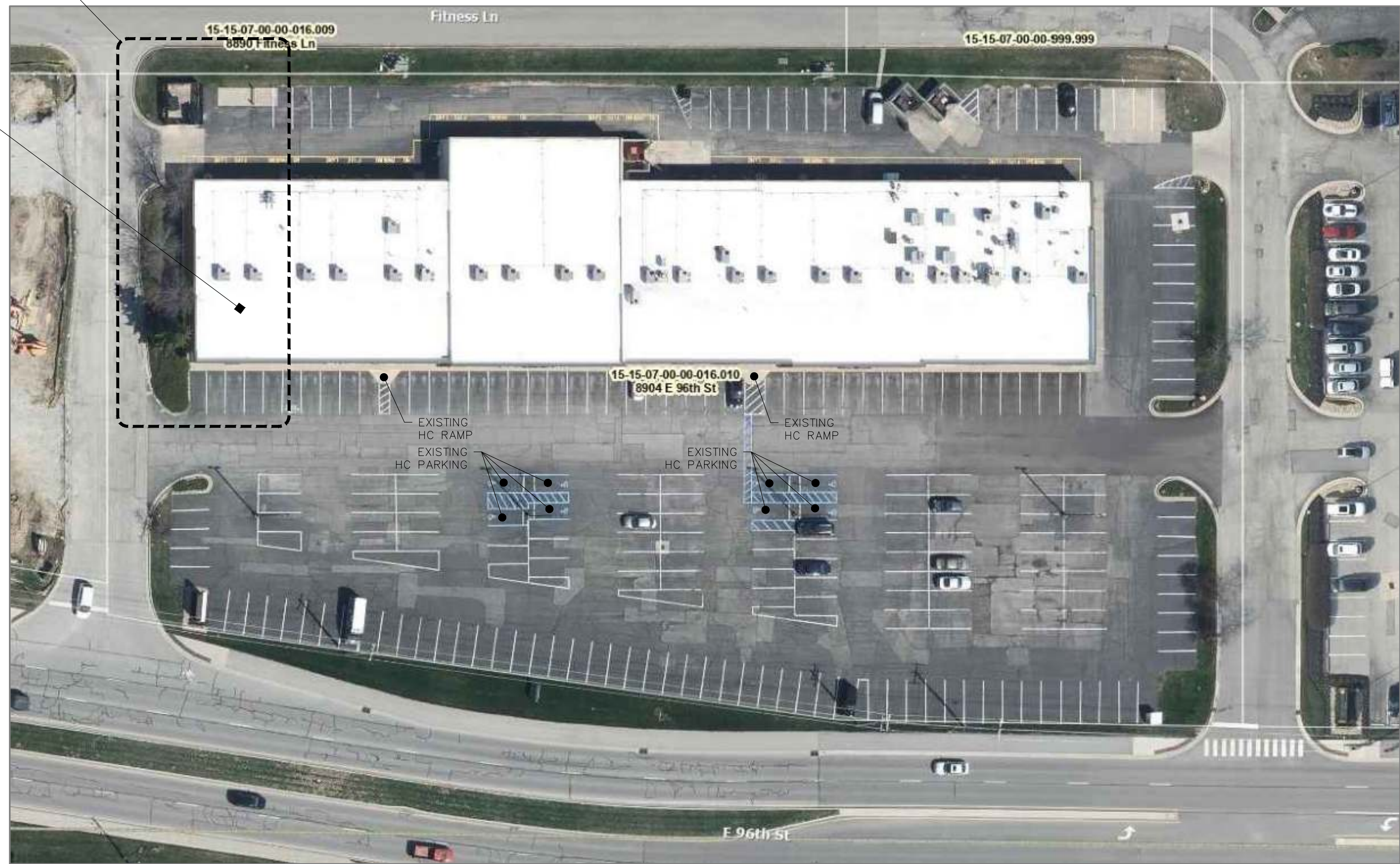
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2 Enlarged Partial Site Plan

2

8902 E 96TH ST
FISHERS, IN 46037



1 Aerial Site Plan
Not to Scale

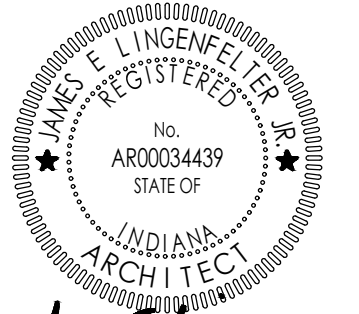


Lincoln Square
Fishers
8902 E. 96th Street
Fishers, IN 46037
Approx. 3,158 SF

2.26.2024 OWNER REVIEW
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A
Site Plan

A1.0



James E. Lingenfelter

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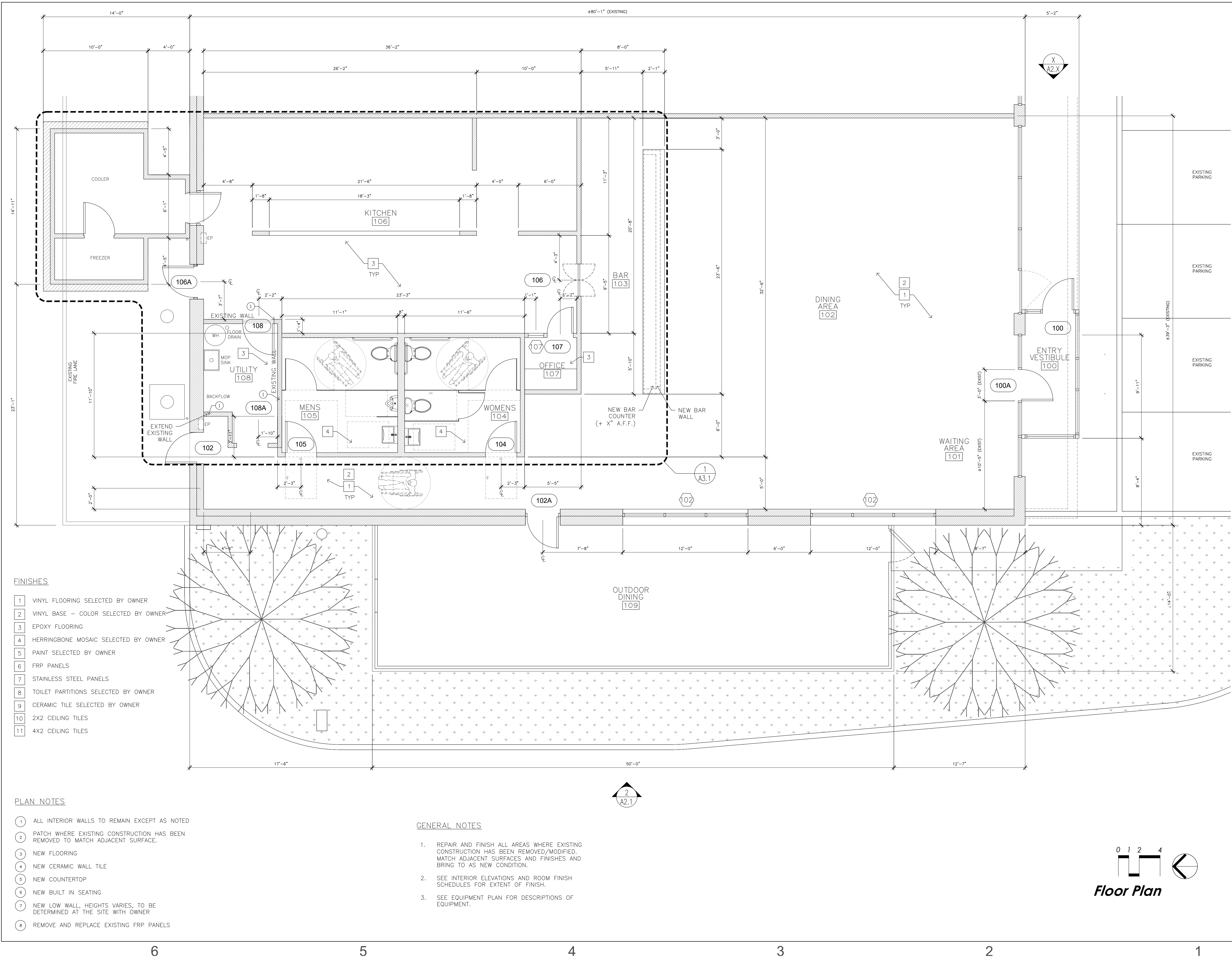


**Lincoln Square
Fishers**
8902 E. 96th Street
Fishers, IN 46037
Approx. 3,158 SF

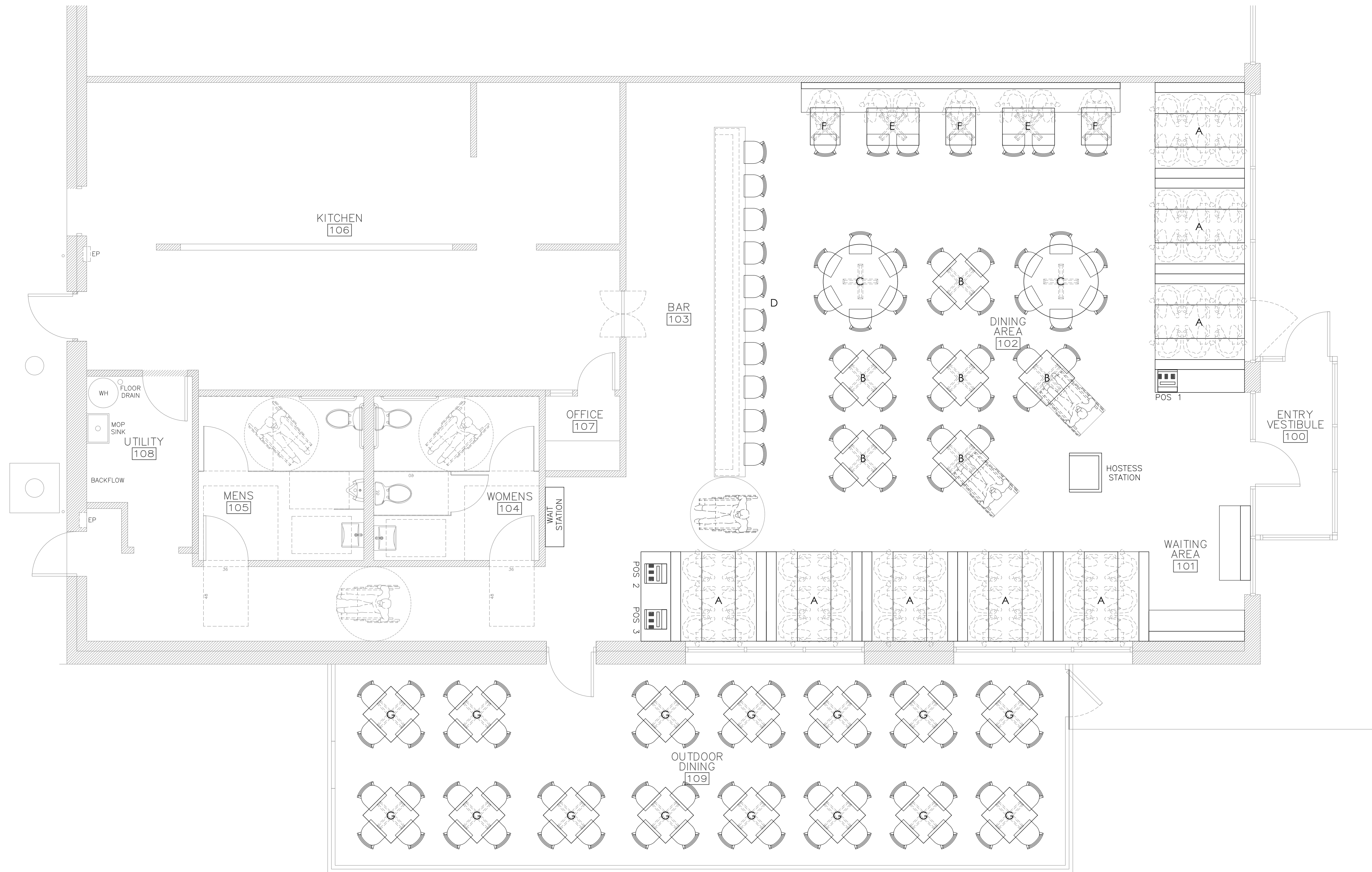
2.26.2024 OWNER REVIEW
Date Issued Issued For

A
Floor Plan

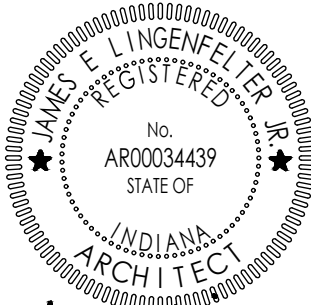
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TIME: 2024.02.08 11:39



ITEM	DESCRIPTION	NUMBER /TOTAL SEATS	NOTES
A	6 SEAT BOOTH (6'-0")	8 / 48	
B	4 SEAT TABLE (32" SQ)	6 / 24	W/ 2 HC SEATS
C	6 SEAT TABLE (5'-0" Ø)	2 / 12	
D	BAR SEATS	10 / 10	
E	4 SEATER (42"x30")	2 / 8	21'-5" BENCH
F	2 SEATER (24"x30")	3 / 6	21'-5" BENCH
INDOOR TOTAL		108	
G	4 SEAT TABLE (32" SQ)	15 / 60	OUTDOOR DINING
OUTDOOR TOTAL		60	
OVERALL TOTAL		168	



James E. Lingenfeller

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REVISIONS		
MARK	DATE	DESCRIPTION



Lincoln Square
Fishers
8902 E. 96th Street
Fishers, IN 46037
Approx. 3,158 SF

2.26.2024 OWNER REVIEW
Date Issued Issued For

0 1 2 4
Seating Plan

Seating Plan
Dining Area

A1.3



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NOTES:

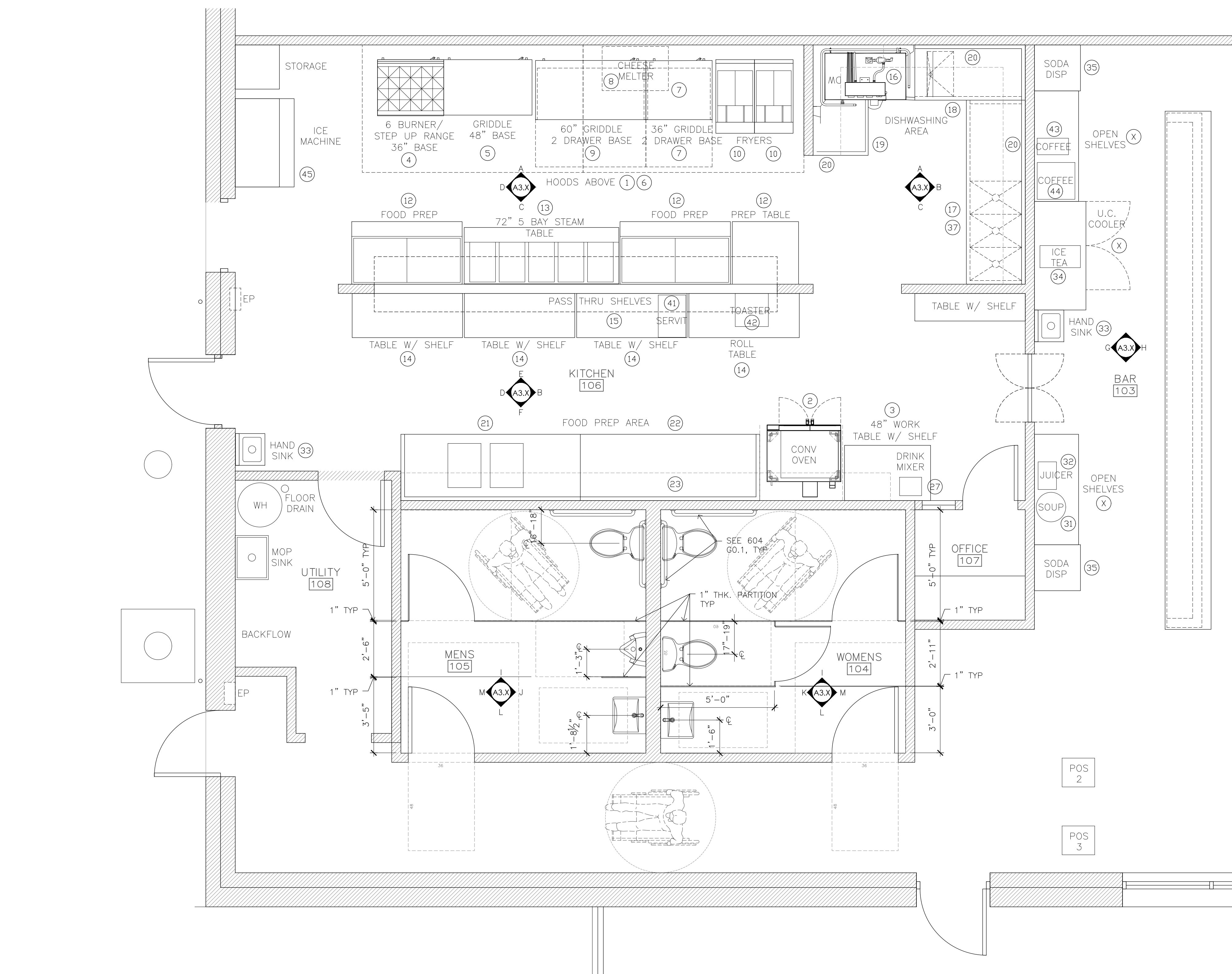
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2. CONFIRM ALL CONNECTIONS WITH OWNER / CUT SHEETS
3. LABEL ALL CIRCUITS AT PANEL
4. CONNECT ALL GAS EQUIP. WITH FLEX LINES AND RESTRAINT CABLE.
5. INSTALL AND CONNECT ALL OWNER SUPPLIED EQUIPMENT REQUIRING CONNECTIONS TO UTILITY
6. PROVIDE ALL NECESSARY SUPPORTS, CONNECTION AND PIECES FOR A COMPLETE INSTALLATION.
7. PROVIDE SHUT OFF VALVES AT ALL UTILITY CONNECTIONS
8. CONFIRM ALL FINAL CONNECTION REQUIREMENTS.

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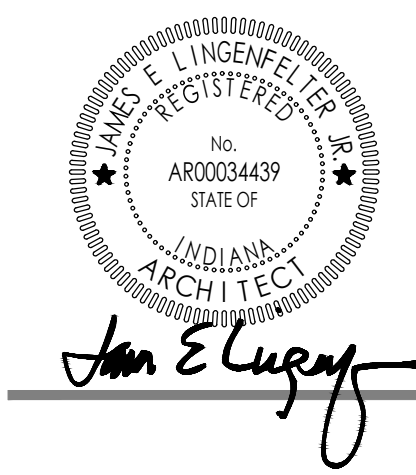
Approx.3,158 SF

2.26.2024	OWNER REVIEW
Date Issued	Issued For

A3.1



Scale: $3/8" = 1' = 0'$



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MARK	DATE	DESCRIPTION

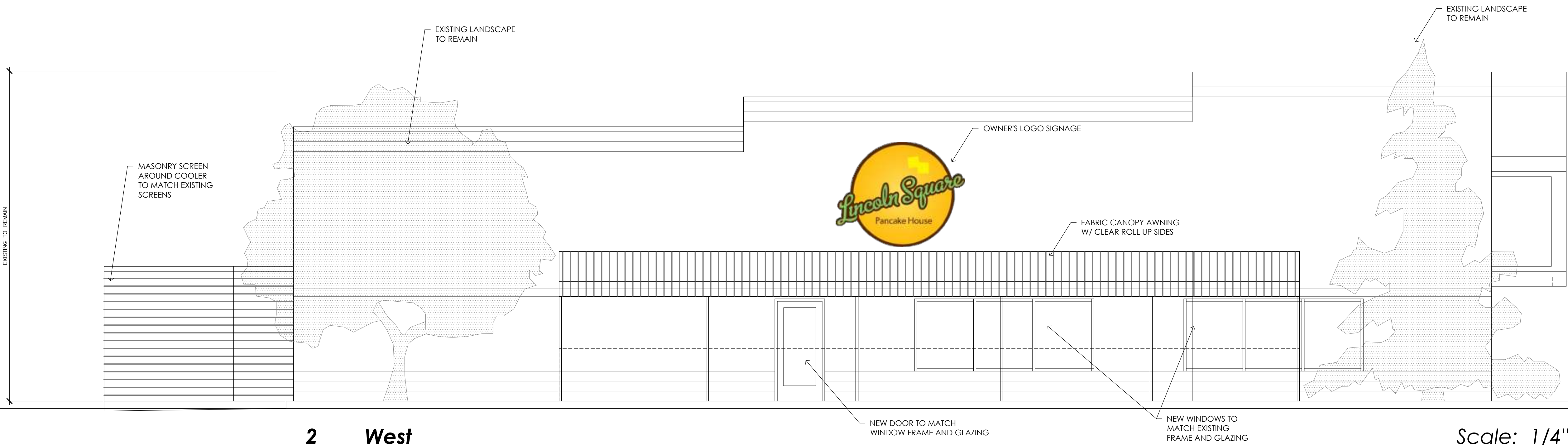


Lincoln Square Fishers
8902 E. 96th Street
Fishers, IN 46037
Approx. 3,158 SF

2.26.2024 OWNER REVIEW
Date Issued Issued For

Exterior Elevations

A2.1





Planned Unit Development (PUD) Committee Staff Report

Meeting Date: May 1, 2024

DEPARTMENT CONTACT:
Christy Cashin, Senior Planner
(cashinc@fishers.in.us)

CASE NUMBER:
PUD-24-2

PETITIONER:
James Lingenfelter
(jimlingenfelter@five2fivedesign.com)

PROPERTY ADDRESS/LOCATION:
8902 E 96th Street

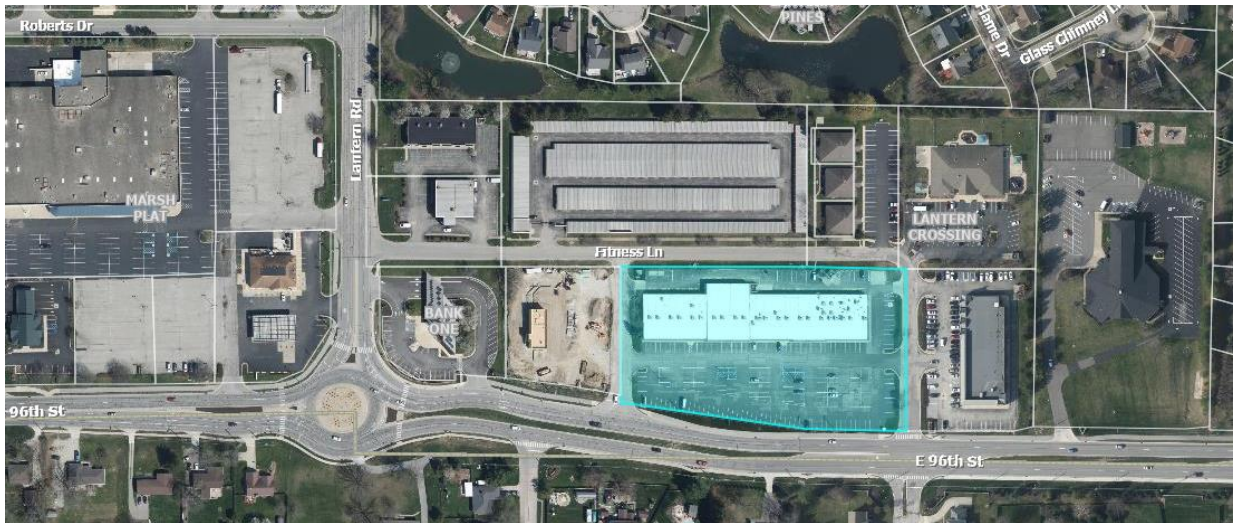
REQUEST: Request to approve architecture for a new restaurant tenant within the Lantern Pines PUD, generally located north of E. 96th Street between Lantern Rd. and Fitness Ln.

APPLICABLE REGULATIONS:
Lantern Pines PUD Ordinance
No. 090391A and the City's
UDO

EXISTING ZONING:
Lantern Pines PUD

FISHERS 2040:
Regional Center

LOCATION MAP



STAFF RECOMMENDATION

☒ Approve

☐ Approve with Conditions

☐ Continue

☐ Deny

ZONING HISTORY:

This property has fallen under the Lantern Pines PUD (ordinance 090391A) since it was adopted on September 18, 1991.

PETITION OVERVIEW:

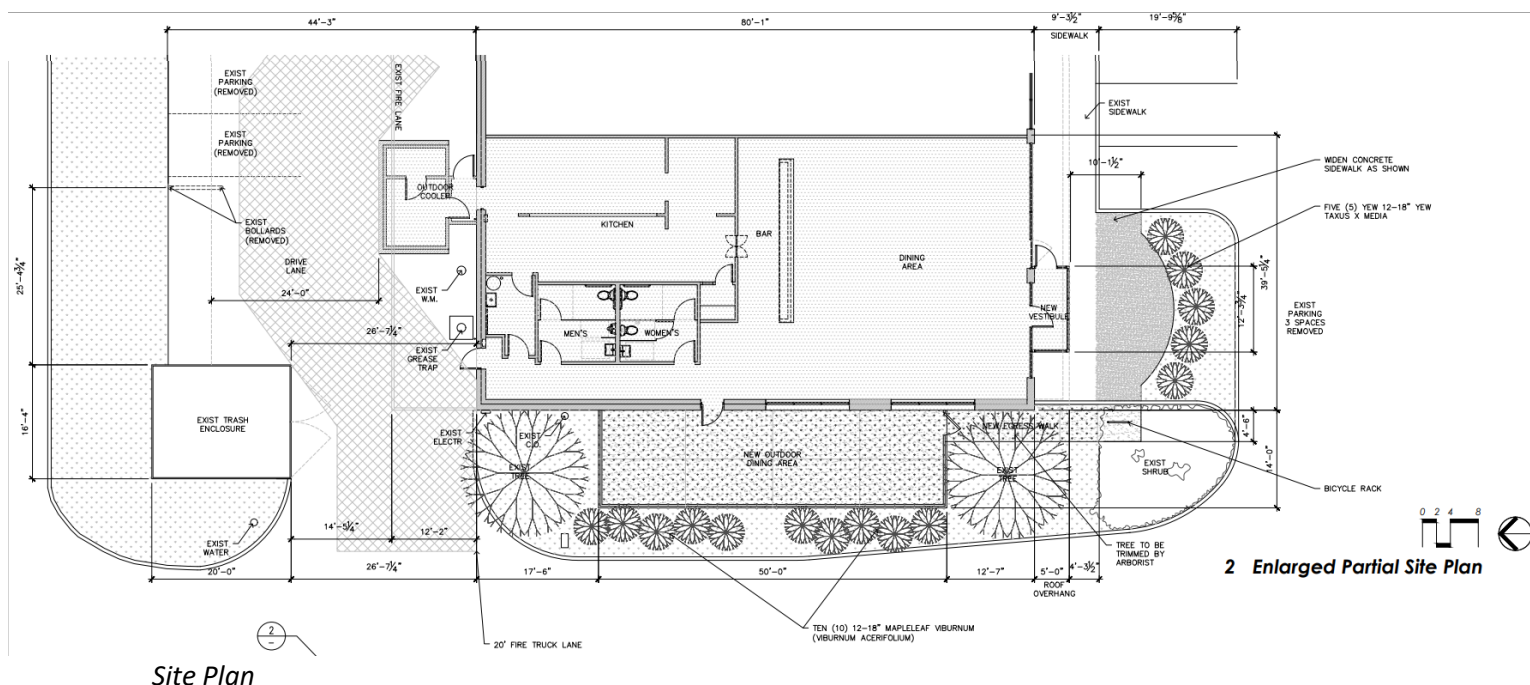
The petitioner is proposing a tenant remodel of a current retail space into a restaurant with an outdoor dining area to the west, a vestibule encroaching into the sidewalk, and a walk-in cooler on the north side of the building.

Much of the façade of this building will remain as it is today. The changes to the building are as follows:

South façade: A vestibule will be added around the existing front door. Three parking spaces have been removed on the south side of the building to add more sidewalk area and landscaping around the vestibule area, so proper sidewalk width can be maintained around the vestibule.

West façade: Windows, a pedestrian door, and a fabric canopy will be added over an outdoor seating area. The windows and doors that are being added will match the frame and glazing of existing windows.

North façade: A 150 sq. ft. walk-in cooler will be added to the rear of the building, accessed through a door in the kitchen.



Proposed Elevations



Additional Images



West elevation showing outdoor seating area



Outdoor seating area, four-season covering examples

Architectural Standards

The Lantern Pines PUD states:

Commercial District C1 - Article 16 development standards shall apply to the medical office, professional office, athletic club with club related accessory retail, service and restaurant facilities and health-science training, observation and treatment sub areas with the following exceptions:

- (a) Store front windows on the exterior walls of the building shall be open for light and the viewing of merchandise and activities inside of the windowed use.
- (b) Central trash containers and/or dumpsters larger than six (6) cubic feet shall be permitted in approved locations provided they are in the rear of the buildings, they have solid enclosure at least five (5) feet in height and concrete slab bases.

All other development standards refer to the City of Fishers UDO.

SURROUNDING CHARACTER:

This property falls on the far west side of a strip mall that houses a variety of tenants. There is a new Starbucks located directly west of this location and a storage facility to the south.

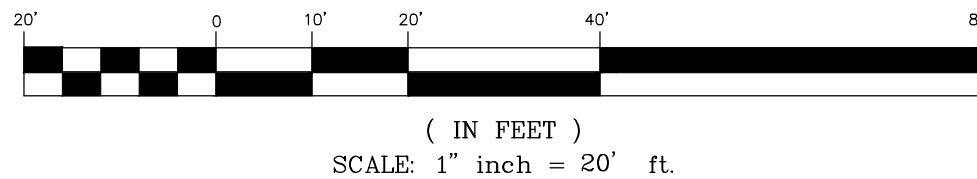


STAFF RECOMMENDATION:

Staff recommends the PUD Committee approve the elevations as proposed.

STAFF RECOMMENDATION

☒ Approve ☐ Approve with Conditions ☐ Continue ☐ Deny



	SPOT ELEVATION		F _O — FIBER OPTICS
	CONTOUR (MAJOR)		G — GAS
	CONTOUR (MINOR)		E — ELECTRIC
	CONCRETE BUMPER		T — TELEPHONE
	PAY TELEPHONE		W — WATER
	RIGHT OF WAY MARKER		SAN — SANITARY SEWER
	GYU ANCHOR		STM — STORM SEWER
	CAT TAILS		CS — COMBINED SEWER
	STUMP		U/G — UNDERGROUND
	DECIDUOUS TREE		O/H — OVERHEAD
	EVERGREEN TREE		
	BUSH		COMBINATION M.H.
	FENCE		SANITARY M.H.
	SIGN		CLEAN OUT
	TRAFFIC SIGNAL POLE		CURB INLET
	TRAFFIC SIGNAL M.H.		ROUND INLET (24\"/>
	DOOR		SQUARE INLET (24\"/>
	FLAG POLE		DRAINAGE M.H.
	UTILITY POLE		END SECTION
	PLAY GROUND EQUIP		GAS/WATER METER
	BORE		TILE/CABLE/ELEC PEDESTAL
	MAIL BOX		IRRIGATION/ELEC BOX
	SPILOTTER		AIR CONDITIONER
	IRON PIN		ELECTRIC TRANSFORMER
	TEST PIT		AREA LIGHT / LIGHT BOLLARD
	BENCHMARK ELEV		GAS/WATER VALVE
	GRILL HOLE		GATE
	PROPERTY CORNER		PIR/FIRE HYDRANT/FDC
	SURVEY CONTROL POINT		DRAIN/DOWN SPOUT
	ROUND METAL LID		FG/ELEC/ELEC/GAS MARKER
	MONITOR WELL LID		I/P S 5/8\"/>
	SQUARE METAL LID		(R) DEPTH / RECORD
	WELL LID		(M) MEASURED
	WATER SHUT OFF LID		
			ADA PARKING EMBLEM

D - DEED M - MEASURED/CALCULATED SP - STATE PLANE BEARING P - PLATTED
 CSR - COUNTY SURVEYOR RECORDS
 IPS - 5 / 8" DIAMETER WITH PLASTIC CAP STAMPED "DLDS 0064" SET IPF - IRON PIN FOUND
 NSF - NOTHING SET OR FOUND
 MNS - MAG NAIL SET FLUSH MNF - MAG NAIL FOUND
 R/W MONUMENT FOUND - 0.4' SQUARE CONCRETE MONUMENT FOUND 0.3' BELOW SURFACE.
 (*) - CALLS NOT ADJUSTED OR ROTATED TO MATCH PARENT SURVEYED TRACT. SHOWN PER DEED.

	EASEMENT AREA OUTLINE
	BOUNDARY / PARCEL OUTLINE
	EXISTING BUILDING INSIDE BOUNDARY / PARCEL
	EXISTING PAVEMENT INSIDE BOUNDARY / PARCEL
	EXISTING CONCRETE INSIDE BOUNDARY / PARCEL

HORIZONTAL AND VERTICAL CONTROL BASED ON INDOT INCORS SYSTEM, INCORPORATES VERTICAL DATUM NGVD88.



LOCATION MAP

HOLEY MOLEY SAYS "DIG SAFELY"



now what's **below.**
Call before you dig

811

PER INDIANA STATE LAW ICB-1-26.
IT IS AGAINST THE LAW TO EXCAVATE
WITHOUT NOTIFYING THE UNDERGROUND
LOCATION SERVICE TWO (2) WORKING DAYS
BEFORE COMMENCING WORK.

CLIENT NAME: EMAD AYAD
C/O DONALD HIGHLANDER
CONNECTING SPACES LLC
8306 PENDLETON PIKE
INDIANAPOLIS, IN 46226
317-213-0789
don@connectingspaces.com/ph: 330-653-5320
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DESIGNED:	APPROVED:	MLD
DRAWN: BAW	CHECKED BY:	MLD
SCALE: 1" = 20'	DATE:	03-01-2024
PROJECT NO.: 2023-0004		

1 OF 1

PREPARED BY:



RECEIVED BY:

14033 TRADE CENTER DRIVE,
DELAWARE TWP., HAMILTON COUNTY, IN
Pt. of the Southwest 1/4, Section 19, Twp. 18 North, Rg. 5 East,
2nd P.M., Delaware Twp., Madison County, Indiana

EXISTING CONDITIONS

INDIANA CONSTRUCTION STORMWATER GENERAL PERMIT (CSGP) - PLAN CHECKLIST			
SECTION A: ASSESSMENT OF CONSTRUCTION PLAN ELEMENTS			
CHECKLIST REQUIREMENT			LOCATION
ITEM	DESCRIPTION	ITEM INFORMATION / MISCELLANEOUS	DRAWING
A1	REQUIRED PLAN ELEMENT INDEX	SEE THIS SHEET	C102
A2	VICINITY MAP	SEE COVER SHEET	C000
A3	PROJECT NARRATIVE		
A4	VICINITY MAP	LAT: N39°59'31.47" LONG: W86°00'17.50"	C000
A5	LEGAL DESCRIPTION	SEE SHEET SWPP NOTES; LEGAL DESCRIPTION, SEE THIS SHEET	C102
A6	PLAT SHOWING BUILDING LOT NUMBERS / BOUNDARIES & ROAD LAYOUT/NAMES/ 100 YEAR FLOODPLAINS, FLOODWAYS, AND FLOODWAY FRINGES	SEE SITE PLAN SHEET	C600
A7	ADJACENT LANDUSE, INCLUDING UPSTREAM WATERSHED	SITE DOES NOT LIE IN ANY FLOODPLAINS, FLOODWAYS, AND/OR FLOODWAY FRINGES PER FM18057C01610 NORTH: COMMERCIAL; SOUTH: COMMERCIAL; EAST: COMMERCIAL	--
A8	IDENTIFICATION OF A US EPA APPROVED OR ESTABLISHED TMDL	PER EPA: STONY CREEK: PCBs IN FISH TISSUE & E.COLI; THE OUTFALL IS STONY CREEK, WHICH IS INCLUDED IN THE DUCK-PIPP-KILLBUCK-STONY-CREEKS E.COLI TMDLS. THE IMPAIRMENT IS ESCHERICHIA COLI (E.COLI).	--
A9			
A10	IDENTIFICATION OF ALL RECEIVING WATERS	SITE DISCHARGES TO A REGIONAL DETENTION POND, SAID POND WILL DISCHARGE INTO STONY CREEK.	--
A11	IDENTIFICATION OF POTENTIAL DISCHARGES TO GROUND WATER	POTENTIAL DISCHARGES WILL BE INTO THE GROUND DURING CONSTRUCTION ACTIVITIES.	--
		PER MYWATERWAY.EPA.GOV, THE STONY CREEK (ASSESSMENT UNIT ID: INW0174_04) IS INCLUDED ON THE 303D LIST.	
A12	SOILS MAP INCLUDING SOIL DESCRIPTIONS AND LIMITATIONS	SEE SOILS MAP SHEET	C103
A13	LOCATION AND NAME OF ALL WETLANDS, LAKES AND WATER COURSES ON/ADJACENT TO SITE	SEE EXISTING SITE CONDITIONS; NO KNOWN WETLANDS ON SITE.	C100
A14	IDENTIFY ANY STATE/FEDERAL WATER QUALITY PERMITS/AUTHORIZATIONS REQUIRED	NONE KNOWN AT THIS TIME.	--
A15	IDENTIFICATION & DELINEATION OF EXISTING COVER, INCLUDING NATURAL BUFFERS	SEE PRE-CONSTR-SWPPP SHEETS; CURRENT SITE IS AN UNDEVELOPED COMMERCIAL PROPERTY WITHIN A COMMERCIAL PARK.	C100
A16	EXISTING SITE TOPOGRAPHY	SEE EXISTING CONDITIONS SHEET	C100
A17	LOCATION(S) WHERE RUN-OFF ENTERS THE PROJECT SITE	THE SITE CURRENT DRAINS FROM THE WEST PROPERTY LINE TO THE EAST PROPERTY LINE AND GOES INTO A CULVERT PIPE BY THE SOUTHEAST CORNER OF THE SITE. DOES NOT APPEAR THAT ANY ROAD RUNOFF COMES ONTO THE SITE.	C100
A18	LOCATION(S) WHERE RUN-OFF DISCHARGES THE PROJECT SITE PRIOR TO LAND DISTURBANCE	RUN-OFF WILL BE AT THE SOUTHEAST CORNER OF THE PROPERTY INTO THE EXISTING STORM SEWER SYSTEM FOR THE FISHERS TRADE CENTER COMMERCIAL PARK.	C100
A19	LOCATIONS, SIZE AND DIMENSIONS OF EXISTING STORMWATER SYSTEMS	SEE EXISTING CONDITIONS SHEET	C100
A20	EXISTING RETENTION/DETENTION FACILITIES, WETLANDS, DESIGNED FOR STORMWATER MANAGEMENT	FISHERS TRADE CENTER COMMERCIAL PARK HAS A REGIONAL DETENTION FACILITY. IT IS NOT DESIGNED FOR WATER QUALITY TO KNOWLEDGE AVAILABLE AT THIS TIME. THERE ARE NO KNOWN WETLANDS ON THIS SITE.	C100, C300, C400, & C600
A21	LOCATIONS WHERE STORMWATER DISCHARGE INTO GROUND WATER	DISCHARGE TO GROUND WILL BE AT THE SOUTHWEST CORNER OF PROPERTY WHERE WETLANDS ARE LOCATED.	C100, C300 C600
A22	SIZE OF THE PROJECT AREA EXPRESSED IN ACRES	TOTAL SITE: 2.27 ACRES	C100
A23	TOTAL EXPECTED LAND DISTURBANCE EXPRESSED IN ACRES	TOTAL LAND DISTURBANCE: 1.99 ACRES	C500
A24	PROPOSED FINAL TOPOGRAPHY	SEE SITE GRADING PLAN	C500
A25	LOCATIONS & APPROXIMATE BOUNDARIES OF DISTURBED AREAS	SEE GRADING, SITE, SWPPP PLANS	C500, C600 & C700
A26	LOCATIONS, SIZE, & DIMENSIONS OF ALL STORMWATER DRAINAGE SYSTEMS	SEE SITE UTILITY PLAN SHEET	C300
A27	LOCATIONS WHERE STORMWATER & NON-STORMWATER DISCHARGES SITE	SEE SITE UTILITY PLAN, SITE GRADING, & POST-SWPPP SHEET	C300, C500, & C700
A28	LOCATION OF ALL PROPOSED IMPROVEMENTS	SEE SITE UTILITY PLAN, SITE GRADING, SITE PLAN, & POST-SWPPP SHEET	C300, C500, C600, & C700
A29	LOCATION OF ALL ON-SITE & OFF-SITE STOCKPILES & BORROW AREAS	THERE ARE NO PROPOSED STOCKPILES OR BORROW AREAS	C400 & C500
A30	CONSTRUCTION SUPPORT ACTIVITIES THAT ARE EXPECTED TO BE PART OF THE PROJECT	CONCRETE WASHOUT (PLAN ELEMENT B14 ON THIS SHEET)	C101 & C102
A31	LOCATION OF ANY IN-STREAM ACTIVITIES THAT ARE PLANNED FOR THE PROJECT INCLUDING, BUT NOT LIMITED TO, STREAM CROSSINGS & PUMP AROUNDS	THERE ARE NO WATERBODY CROSSING FOR THIS PROJECT	--
SECTION B: CONSTRUCTION COMPONENT			
CHECKLIST			LOCATION
ITEM	DESCRIPTION	ITEM INFORMATION	DRAWING
B1	DESCRIPTION OF POTENTIAL POLLUTANT SOURCES ASSOCIATED WITH CONSTRUCTION ACTIVITIES	POTENTIAL POLLUTANT SOURCES INCLUDE EXPOSED SOILS AND LEAKING VEHICLES AND EQUIPMENT. THE MEASURES OR OPERATIONAL ACTIVITIES THAT WILL BE INITIATED TO MINIMIZE THE DANGER OF POLLUTANTS ENTERING STORMWATER ARE SHOWN ON THIS SHEET.	C102
B2	CONSTRUCTION ENTRANCE LOCATION AND SPECIFICATIONS	SEE SHEET C100 FOR LOCATION OF STABLE CONSTRUCTION ENTRANCE AND SEE CITY OF NOBLESVILLE STANDARD DETAILS FOR EROSION CONTROL. AND SEE CHAPTER 7 OF THE INDIANA STORMWATER QUALITY MANUAL FOR DETAILED SPECIFICATIONS.	CITY DETAILS SHEETS 27
B3	SPECIFICATIONS FOR TEMPORARY & PERMANENT STABILIZATION	TEMPORARY SEEDING WILL BE USED FOR TEMPORARY SURFACE STABILIZATION. SEE SEASONAL SOIL PROTECTION CHART.	C102
B4	SEDIMENT CONTROL MEASURES FOR CONCENTRATED FLOW AREAS	INLET PROTECTION WHILE SITE IS UNDER CONSTRUCTION AND FOLLOW FISHERS CONSTRUCTION STANDARDS AND SEE CHAPTER 7 OF THE INDIANA STORMWATER QUALITY MANUAL FOR DETAILED SPECIFICATIONS.	C101, CITY DETAILS SHEETS 26 – 28
B5	SEDIMENT CONTROL MEASURES FOR SHEET FLOW AREAS	SEE SHEETS CONSTRUCTION STORMWATER POLLUTION PLAN FOR SILT FENCE AND FOLLOW FISHERS CONSTRUCTION STANDARDS AND SEE CHAPTER 7 OF THE INDIANA STORMWATER QUALITY MANUAL FOR DETAILED SPECIFICATIONS.	C400, CITY DETAILS SHEETS 26 – 28
B6	RUNOFF CONTROL MEASURES	N/A AS DISTURBED AREAS WILL BE COLLECTED AND CONVEYED VIA STORM SEWERS THRU A MECHANICAL BMP THEN TO REGIONAL DETENTION VIA EXISTING STORM SEWERS ALONG SR 37.	--
B7	STORM WATER OUTLET PROTECTION LOCATION AND SPECIFICATIONS	N/A	--
B8	GRADE STABILIZATION STRUCTURE LOCATIONS AND SPECS	N/A	--
B9	DEWATERING APPLICATIONS AND MANAGEMENT METHODS	N/A – SITE DOES NOT ANTICIPATE ANY DEWATERING FOR THIS PROJECT.	--
B10	MEASURES UTILIZED FOR WORK WITHIN WATERBODIES	N/A – SITE DOES NOT HAVE ANY PROPOSED WORK WITHIN ANY WATERBODIES.	--
B11	MAINTENANCE GUIDELINES FOR EACH PROPOSED STORMWATER QUALITY MEASURE	INDIVIDUAL MAINTENANCE GUIDELINES ARE SHOWN ON THIS SHEET.	C102
B12	PERMANENT SURFACE STABILIZATION SPECIFICATIONS (INCLUDE SEQUENCING)	SEQUENCE DESCRIBING STORMWATER QUALITY MEASURE IMPLEMENTATION RELATIVE TO LAND DISTURBING ACTIVITIES.	C102
		1. SCHEDULE PRE-CONSTRUCTION MEETING WITH THE CITY OF NOBLESVILLE OFFICE A MINIMUM 48 HOURS BEFORE ANY CONSTRUCTION COMMENCES. 2. NOTIFY IDEM AND THE CITY OF FISHERS OFFICE WITHIN 48 HOURS OF STARTING CONSTRUCTION. 3. POST THE NOI AND CONTACT INFORMATION FOR THE PERSON ON-SITE RESPONSIBLE FOR STORM WATER POLLUTION PREVENTION. 4. DESIGNATE THE TRAINED INDIVIDUAL THAT WILL COMPLETE THE WEEKLY SITE EVALUATIONS. 5. CALL THE INDIANA UNDERGROUND PLANT PROTECTION SYSTEMS, INC. (HOLEY MOLEY) AT 1-800-382-5540 TO CHECK THE LOCATION OF ANY EXISTING UTILITIES. THEY SHOULD BE NOTIFIED TWO WORKING DAYS BEFORE CONSTRUCTION TAKES PLACE. 6. INSTALL PERIMETER BMP'S AS SHOWN ON SHEET C100 INCLUDING TEMPORARY FENCING FOR WETLAND PROTECTION. 7. ARRANGE REFUELING OF EQUIPMENT AS SUCH A FUEL STORAGE TANK IS NOT NECESSARY. IF A FUEL STORAGE SYSTEM IS NECESSITATED, CONTRACTOR SHALL INSTALL AS DICTATED BY CITY OF NOBLESVILLE STANDARD DETAILS AND ADDITIONAL EARTHEN BERMS ALONG THE WESTERN DEVELOPED EDGE TO PREVENT CONTAMINATION INTO THE WETLANDS. 8. ROUGH GRADE THE SITE. 9. INSTALL STORM SEWER SYSTEM AND POST CONSTRUCTION STORMWATER QUALITY MEASURES. 10. INSTALL INLET PROTECTION AS STORM INLETS ARE COMPLETED AS SHOWN ON SHEET C300. 11. INSTALL UTILITIES. 12. COMPLETE BUILDING. 13. TEMPORARY SEED ALL DISTURBED AREAS. 14. COMPLETE FINAL SEEDING. 15. INSPECT EROSION CONTROL MEASURES WEEKLY OR FOLLOWING A RAIN EVENT AS OUTLINED IN THE STORMWATER POLLUTION PREVENTION SCHEDULE ON THIS SHEET. 16. CSQP REQUIRES THAT ALL DISTURBED AREAS THAT WILL BE POTENTIALLY BE IDLE SHALL MEET THE REQUIREMENTS OF Sec. 3.4(c)(1) OF THE CSQP. MAINTAIN ALL EROSION AND SEDIMENT CONTROL PRACTICES UNTIL ALL DISTURBED AREAS ARE PERMANENTLY STABILIZED AS SHOWN ON SHEET C700.	
B13	PROVISIONS FOR EROSION & SEDIMENT CONTROL ON INDIVIDUAL RESIDENTIAL BUILDING LOTS REGULATED UNDER THE PROPOSED PROJECT	N/A – PROJECT HAS A SINGLE PROPOSED CONSTRUCTION PROJECT FOR A COMMERCIAL BUILDING AND ASSOCIATED PARKING LOT	--
B14	MATERIAL HANDLING & SPILL PREVENTION & SPILL RESPONSE PLAN	SEE EXPANDING B14 ITEM ON THIS SHEET FOR STEPS REQUIRED	C102
B15	MATERIAL HANDLING & STORAGE PROCEDURES ASSOCIATED WITH CONSTRUCTION ACTIVITY	ALL MATERIAL HANDLING & STORAGE SHALL BE CONTAINED WITHIN THE CONSTRUCTION/STAGING AREA	C101, C102, C400, C700, & CITY DETAIL SHEETS 26 – 28

SECTION C: POST CONSTRUCTION COMPONENT			
ITEM	CHECKLIST	ITEM INFORMATION	LOCATION
	DESCRIPTION		DRAWING
C1	DESCRIPTION OF POLLUTANTS AND THEIR SOURCES ASSOCIATED WITH PROPOSED LAND USE	POTENTIAL POLLUTION SOURCES ASSOCIATED WITH THIS SITE INCLUDE: RUNOFF FROM PAVED PARKING AREAS, SPILLAGE FROM EQUIPMENT AND FUEL STORAGE ON-SITE. THE OWNER SHALL INSTALL ALL PERMANENT EROSION CONTROL PRACTICES AS INDICATED IN THE STORM WATER POLLUTION PREVENTION PLAN AND SHALL CONTROL POLLUTION FROM MATERIAL STORAGE BY PROPER STORAGE PROCEDURES. MATERIALS THAT ARE A POTENTIAL SOURCE OF POLLUTION SHALL BE STORED IN CONTAINERS PROTECTED FROM THE ELEMENTS. POLLUTION FROM FUELING AND FUEL STORAGE AREAS SHALL BE PREVENTED BY PROPER PRACTICES. PROPER CONTAINMENT AND CLEANUP SHALL BE EMPLOYED IF A SPILL OCCURS.	---
C2	DESCRIPTION OF PROPOSED POST CONSTRUCTION STORMWATER QUALITY MEASURES (INCLUDE A WRITTEN DESC. OF HOW THESE MEASURES WILL REDUCE DISCHARGE OF EXPECTED POLLUTANTS)	RUNOFF WILL BE COLLECTED VIA INLET CATCH BASINS AND CONVEYED VIA STORM SEWER SYSTEM TO A MECHANICAL BMP DEVICE TO TREAT THE STORM WATER PRIOR TO RELEASING INTO A CITY MAINTAINED STORM SEWER SYSTEM.	C300
C3	PLAN DETAILS FOR EACH STORMWATER MEASURES	SEE STORM WATER POLLUTION PREVENTION PLAN SHEETS	C101, C400, C700, CITY DETAIL SHEETS 26 - 28
C4	SEQUENCE DESCRIBING STORMWATER QUALITY MEASURE IMPLEMENTATION	SEE PLAN ELEMENT B12, THIS SHEET	C102
C5	DESCRIPTION OF MAINTENANCE GUIDELINES FOR POST CONSTRUCTION STORMWATER QUALITY MEASURES	SEE O & M MANUAL - NOT INCLUDED IN THESE PLANS.	---
C6	ENTITY THAT WILL BE RESPONSIBLE FOR OPERATION & MAINTENANCE TO THE POST-CONSTRUCTION STORMWATER MEASURES	EMAD AYAD C/O DONALD HIGHLANDER 8306 PENDLETON PIKE INDIANAPOLIS, IN 46226 330-653-5320 don@connectingspaces.com	---
ITEM A5: LEGAL DESCRIPTION			
Parcel I: (Fee Simple) Part of the Southwest Quarter of Section 19, Township 18 North. Range 5 East of the Second Principal Meridian, Hamilton County, Indiana, described as follows: Commencing at a PK nail at the Northeast corner of the Southwest Quarter of said Section 19; thence South 89 degrees 30 minutes 50 seconds West (assumed bearing) along the North Line of said Southwest Quarter a distance of 238.03 feet to a point 210.00 feet West by perpendicular measurement of Line "E" per plans for State Road No. 37 (U.S.H.C. File No. 1805-PL-004081, Section 1, dated 1954); thence South 00 degrees 03 minutes 13 seconds East parallel with the centerline of said State Road No. 37 a distance of 16.50 feet; thence South 45 degrees 49 minutes 13 seconds East along the West right-of-way line of said State Road No. 37 a distance of 171.67 feet to a point that is 87.00 feet West by perpendicular measurement of said Line "E"; thence South 00 degrees 03 minutes 13 seconds East along said West right-of-way line a distance of 276.73 feet to the Point of Beginning; thence continuing along said West right-of-way line South 00 degrees 03 minutes 13 seconds East a distance of 205.67 feet to the northeast corner of Fishers Trade Center, Block D as recorded as Instrument Number 2004000414 filed in Plat Cabinet 3, Side 422 in the Office of the Hamilton County Recorder; thence South 89 degrees 29 minutes 45 seconds West along the north line of said Block D a distance of 290.41 feet to the East line of an ingress/egress drainage and utility easement recorded as Instrument number 9909927110 (the following course being along the East line of said easement; thence North 00 degrees 29 minutes 10 seconds West along said East line a distance of 205.75 feet; thence North 89 degrees 30 minutes 50 seconds East a distance of 291.96 feet to the Point of Beginning. EXCEPT THAT PART DESCRIBED IN THE JUDGMENT FILED NOVEMBER 1, 2019 IN THE HAMILTON CIRCUIT COURT CAUSE NO. 200201-1805-PL-004081 AND RECORDED AS INSTRUMENT NO. 2022028770 IN THE OFFICE OF THE RECORDER OF HAMILTON COUNTY RECORDER, BEING MORE PARTICULARLY DESCRIBED AS FOLLOWS, TO-WIT: A part of the Southwest Quarter of Section 19, Township 18 North, Range 5 East, Hamilton County, Indiana, and being that part of the grantor's land lying within the right of way lines depicted on the attached Right of Way Parcel Plat, marked EXHIBIT "A", described as follows: Commencing at the northeast corner of said quarter section, designated as point "18" on said plat; thence South 00 degrees 18 minutes 52 seconds East 413.88 feet along the east line of said quarter section to the prolonged north line of the grantor's land; thence South 89 degrees 11 minutes 45 seconds West 114.33 feet along said prolonged north line to the northeast corner of the grantor's land, which point is also on the west boundary of S.R. 37 and the point of beginning of this description; thence South O. degrees 21 minutes 23 seconds East 205.67 feet along the boundary of said S.R. 37 to the southeast corner of the grantor's land; thence South 89 degrees 11 minutes 45 seconds West 17.53 feet along the south line of the grantor's land; thence North 1 degree 16 minutes 50 seconds West 29.38 feet to point "306" designated on said plat; thence North O degrees 21 minutes 23 seconds West 176.29 feet to the north line of the grantor's land; thence North 89 degrees 11 minutes 45 seconds East 18.00 feet along said north line to the point of beginning and containing 0.085 acres, more or less. Parcel II: (Easement) A non-exclusive easement for ingress and egress as set forth in Declaration Of Covenants, Conditions & Restrictions Of Fishers Trade Center, dated June 14, 2001 and recorded June 27, 2001, as Instrument No. 200100039094, in the Office of the Recorder of Hamilton County, Indiana.			
B14 MATERIAL HANDLING AND SPILL PREVENTION AND SPILL RESPONSE PLAN: IN ORDER TO MINIMIZE THE RELEASE OF POTENTIAL POLLUTANTS DURING CONSTRUCTION THE CONTRACTOR SHALL IMPLEMENT THE MATERIAL HANDLING AND SPILL PREVENTION PLAN. THE CONTRACTOR SHALL REVIEW THIS PLAN WITH ALL SUBCONTRACTORS AND REQUIRE THAT THEY IMPLEMENT THE PLAN AS WELL. POSSIBLE MATERIALS ON SITE INCLUDE FUELING, EQUIPMENT REPAIR OR SERVICE, DEWATERING, DUST CONTROL, PAINTS AND SOLVENTS, SOLID WASTE AND CONCRETE WASHOUT. -1. CONSTRUCTION EQUIPMENT A. FUELING, LUBRICATION AND FLUIDS: ALL OPERATIONS INVOLVING THE ADDITION OF FLUIDS TO EQUIPMENT SHOULD BE DONE IN ONE LOCATION, SO THAT SPILLS ARE LIMITED TO ONE LOCATION ON THE SITE, WHICH WILL FACILITATE THE CLEANUP OF SPILLS. IF AN ON-SITE FUELING TANK IS PLANNED TO BE ON-SITE, IT SHALL BE DOUBLE WALLED AND STORED IN THIS DESIGNATED AREA. THIS LOCATION IS AN AREA THAT WILL NOT ALLOW SPILLED FLUIDS TO MIGRATE INTO SUBSURFACE SOILS. IN THE EVENT OF A SPILL, AN FLUID SHALL IMMEDIATELY BE CLEANED UP BY REMOVING THE CONTAMINATED SOILS AND STORED IN THE PROJECT IMMEDIATELY IN AN ACCEPTABLE MANNER. SPILLS ON HARD SURFACES SHALL BE SOAKED UP BY AN ACCEPTABLE MATERIAL SUCH AS OIL DRY AND THE ABSORBENT MATERIAL DISPOSED OF IN A PROPER MANNER. THE SPILL SHALL ALSO BE REPORTED IMMEDIATELY TO THE CONTRACTOR'S SUPERINTENDENT. B. EQUIPMENT REPAIR, ESPECIALLY WHEN FLUIDS MUST BE REMOVED FROM THE EQUIPMENT OR THE POSSIBILITY OF FLUID SPILLS IS HIGH, SHOULD ALWAYS BE DONE OFF-SITE AT A FACILITY THAT IS MORE SUITABLE THAN A CONSTRUCTION SITE TO HANDLE SPILLS. WHEN EQUIPMENT MUST BE REPAIRED ON-SITE IT SHOULD BE MOVED TO THE MAINTENANCE AND FUELING AREA IF POSSIBLE. OTHERWISE, SUITABLE ON-SITE CONTAINERS SHOULD BE PLACED UNDER THE EQUIPMENT DURING REPAIR TO CATCH ANY SPILLED FLUIDS AND THESE FLUIDS SHOULD BE DISPOSED OF IN A PROPER MANNER. C. ALL REUSABLE FLUID CONTAINERS, SUCH AS GASOLINE CANS, SHALL BE INSPECTED FOR LEAKS EACH TIME THEY ARE USED. IF LEAKS ARE FOUND, THE FLUID SHALL BE REMOVED FROM THE CONTAINER IN A PROPER MANNER AND THE CONTAINER DISPOSED OF IN AN ACCEPTABLE MANNER. EMPTY DISPOSABLE CONTAINERS, SUCH AS GREASE TUBES AND LUBRICATING OIL AND BRAKE FLUID CONTAINERS, AND THEIR PACKAGING, SHALL BE DISPOSED OF IN A PROPER MANNER AND SHALL NOT BE LEFT ON THE GROUND OR IN THE OPEN ON THE CONSTRUCTION SITE. -2. CONSTRUCTION MATERIALS AND THEIR PACKAGING A. EROSION CONTROL MEASURES SHOWN ON THESE PLANS SHALL BE IMPLEMENTED PRIOR TO AND DURING CONSTRUCTION IN THE PROPER SEQUENCING TO MINIMIZE SOIL EROSION. EROSION CONTROLS SHALL BE INSPECTED AND MAINTAINED AS DESCRIBED ELSEWHERE IN THESE PLANS. EXCESSIVE DUSTING OF SOIL ON THE SITE SHALL BE MINIMIZED BY REDUCING CONSTRUCTION TRAFFIC ACROSS BARE SOIL DURING DRY AND/OR WINDY WEATHER, AND BY APPLYING WATER OR OTHER ACCEPTABLE DUST CONTROL MEASURES TO THE SOIL. UPON COMPLETION OF CONSTRUCTION AND SUITABLE ESTABLISHMENT OF PERMANENT VEGETATION, TEMPORARY EROSION CONTROL MEASURES SUCH AS SILT FENCE, CHECK DAMS AND INLET PROTECTION DEVICES SHALL BE REMOVED IN A MANNER TO MINIMIZE ADDITIONAL LAND DISTURBANCE. ANY AREAS DISTURBED BY THESE OPERATIONS SHALL BE PROPERLY REVEGETATED. B. LARGE WASTE MATERIALS CREATED BY CUTTING, SAWING, DRILLING, OR OTHER OPERATIONS SHALL BE PROPERLY DISPOSED OF IN SUITABLE ON-SITE WASTE CONTAINERS. THE SITE SHALL BE CHECKED AT THE END OF THE DAY, AS A MINIMUM, AND ALL WASTE MATERIALS, INCLUDING THOSE BLOWN ACROSS OR OFF THE SITE BY WIND, SHALL BE PICKED UP AND DISPOSED OF IN SUITABLE CONTAINERS. WHERE POSSIBLE, OPERATIONS SUCH AS SAWING THAT CREATE SMALL WASTE PARTICLES SHOULD BE PERFORMED IN ONE SPOT IN AN AREA PROTECTED FROM WIND, AND WASTE PARTICLES COLLECTED AND DISPOSED OF FREQUENTLY TO MINIMIZE WIND DISPERSAL. PACKAGING USED TO TRANSPORT MATERIALS TO THE SITE FOR CONSTRUCTION OF THE FACILITY SHALL BE DISPOSED OF PROPERLY. WHETHER THE MATERIAL IS TAKEN OUT OF ITS PACKAGE AND THE PROPERLY DISPOSED OF IMMEDIATELY OR STORED ON-SITE FOR FUTURE USE, PACKAGED MATERIALS STORED ON-SITE SHALL BE INSPECTED REGULARLY AND ANY LOOSE PACKAGING SHALL BE REPAIRED OR DISPOSED OF PROPERLY. C. ALL DEWATERING OF ACTIVITIES SHALL BE DONE IN ACCORDANCE TO GOOD EROSION CONTROL PRACTICES. THESE PRACTICES SHOULD INCLUDE THE USE OF DIRT BAGS SUCH AS DANDY DIRT BAGS. THE USE OF THESE TYPES OF DEWATERING DEVICES WILL REMOVE LARGE QUANTITIES OF SILT, SEDIMENT AND DIRT AND PREVENT THESE MATERIALS TO ENTER THE STORM SEWER SYSTEM. D. NUTRIENTS AND FERTILIZERS SHALL ONLY BE USED TO ESTABLISH RAPID VEGETATION. WHEN THESE PRODUCTS ARE UTILIZED, THE USER SHOULD PAY STRICT ATTENTION TO THE PRODUCTS RECOMMENDED USAGE. -3. CONCRETE WASTE WATER A. ALL CONCRETE WASTE WATER SHALL BE DISPOSED OF IN THE DESIGNATED AREA. THIS AREA IS A STRUCTURE THAT MEETS THE DETAIL CALLED OUT IN THE NOBLESVILLE CONSTRUCTION STANDARDS ON SHEET 27 OF 29 AND ALSO MEETS OR EXCEEDS SPECIFICATIONS AND MAINTENANCE STANDARDS IN ACCORDANCE WITH MANUFACTURER RECOMMENDATIONS OR THE PROCEDURES LISTED IN CHAPTER 7 OF THE INDIANA STORMWATER QUALITY MANUAL. THIS AREA SHALL BE INSPECTED ON A DAILY BASIS AS A MINIMUM. WHEN THIS AREA BECOMES FULL, THE POLLUTANTS SHALL BE EXCAVATED, PLACED IN AN ACCEPTABLE CONTAINER AND DISPOSED OF IN A PROPER MANNER. -4. PAINT PRODUCTS A. ALL EXCESS PAINT AND THEIR RELATED PRODUCTS SHALL BE DISPOSED OF IN THE MANNER AT WHICH THE MANUFACTURER SUGGESTS, UNDER NO CIRCUMSTANCES WILL PAINT OR THEIR RELATED PRODUCTS BE CLEANED OR DISPOSED OF IN SOIL, SANITARY SEWERS, STORM SEWERS, DETENTION BASINS OR BURNED. ANY VIOLATION OF THIS SHALL BE REPORTED TO THE JOB SUPERINTENDENT. -PROCEDURES FOR SPILLS: 1. BARRICADE THE AREA ALLOWING NO VEHICLES TO ENTER OR LEAVE THE SPILL ZONE. 2. NOTIFY THE CEDAR CANYONS FIRE DEPARTMENT (260) 627-2272 OR 911 IN EMERGENCY. 3. NOTIFY THE INDIANA DEPARTMENT OF ENVIRONMENTAL MANAGEMENT, OFFICE OF EMERGENCY RESPONSE BY CALLING (888) 233-7745. 4. NOTIFY WASTE RECOVERY CONTRACTOR, MAINTENANCE PERSONNEL OR OTHER PERSONNEL AS NECESSARY FOR CLEANUP. 5. COORDINATE AND MONITOR CLEANUP UNTIL COMPLETE. 6. COOPERATE WITH THE IDEM-OER ON PROCEDURES AND REPORTS INVOLVED WITH THE EVENT.			

PROJECT NARRATIVE

THIS PROJECT IS TO CONSTRUCT A COMMERCIAL BUILDING WITH ASSOCIATED PARKING AND UTILITIES.

VEHICLE & EQUIPMENT MAINTENANCE MANAGEMENT MEASURES

- ESTABLISH A SCHEDULE TO INSPECT ALL VEHICLES AND EQUIPMENT FOR LEAKS.
- INSPECT AND CLEAN EQUIPMENT REGULARLY TO PREVENT LEAKS AND EXCESSIVE BUILDUP OF CONTAMINANTS.
- CONDUCT VEHICLE AND EQUIPMENT MAINTENANCE AT ONE LOCATION AWAY FROM STORM DRAINS.
- COVER MAINTENANCE AREAS WITH A PERMANENT ROOF TO HELP MINIMIZE STORM WATER RUNOFF.
- USE DRIP PANS AND DROP CLOTHS TO CATCH DRIPS AND SPILLS WHEN DRAINING OR REPLACING MOTOR OIL, RADIATOR COOLANT, OR OTHER FLUIDS.
- AVOID USING WATER TO CLEAN WORK AREAS. TRY TO USE DRY METHODS TO CLEAN UP MATERIALS. CLEAN SMALL SPILLS WITH RAGS, LARGER SPILLS WITH ABSORBENT MATERIAL.
- USE NONTOXIC SUBSTITUTES FOR CHEMICALS WHERE POSSIBLE.
- DO NOT USE STORM DRAINS FOR DISPOSAL OF MATERIALS.
- STORE RECYCLABLE MATERIALS (OIL, BATTERIES, ETC.) FOR PROPER DISPOSAL.
- WHEREVER POSSIBLE, CONNECT EQUIPMENT PROCESSING AREAS TO A SANITARY SEWER OR WASTEWATER TREATMENT FACILITY.
- RECYCLE GREASES, OIL AND FILTERS, ANTIFREEZE, CLEANING SOLUTIONS, BATTERIES, AND
- TRANSMISSION FLUIDS THROUGH PROPER DISPOSAL AGENCIES.
- REUSE RECYCLED ENGINE OIL, ENGINE COOLANT, TIRES, AND OTHER VEHICLE PARTS WHEN POSSIBLE.
- TRAIN EMPLOYEES ON REDUCING POLLUTANT DISCHARGE, SPILL PREVENTION, AND CLEANUP.
- BE SURE THAT EMPLOYEES ARE AWARE OF ALL ILLEGAL ACTIONS ASSOCIATED WITH POLLUTANT DISPOSAL.
- CONDUCT FUELING AREAS TO HELP INTERCEPT PRECIPITATION AND REDUCE STORM WATER RUNOFF.
- PAVE FUELING AREAS WITH CONCRETE RATHER THAN ASPHALT (GASOLINE DETERIORATES ASPHALT).
- DESIGN FUELING AREAS TO DRAIN INWARD TO A PUMP OR AN OIL-WATER SEPARATOR.
- PERIMETER DRAINS CAN BE INSTALLED AS AN ALTERNATIVE TO INWARD-DRAINING AREAS.
- DISCOURAGE TAPPING OFF-FUEL TANKS AND INSTALL VAPOR RECOVERY NOZZLES TO CONTROL SPILLS.
- WHERE APPROPRIATE, USE DRIP PANS TO CATCH SPILLS.
- CLEAN UP SPILLS IMMEDIATELY TO MINIMIZE SAFETY HAZARDS AND PREVENT SPREADING.
- PICK UP SMALL SPILLS OR USE ABSORBENT MATERIALS. REMOVE ABSORBENT MATERIAL PROMPTLY.
- TRANSPORT INDUSTRIAL EQUIPMENT TO A DESIGNATED FUELING AREA RATHER THAN USING
- MOBILE FUELING.
- MAKE SURE THAT ALL EMPLOYEES ARE TRAINED IN PROPER FUELING AND CLEANUP PROCEDURES.

VEHICLE & EQUIPMENT WASHING & CLEANING MANAGEMENT MEASURES

- WHEN POSSIBLE, USE COMMERCIAL WASHING AND CLEANING FACILITIES THAT EMPLOY PROPER POLLUTION CONTROL MEASURES.
- IF YOU CANNOT USE A COMMERCIAL CAR WASH, USE A BUCKET (NOT A RUNNING HOSE) TO WASH AND RINSE VEHICLES TO CONSERVE WATER AND REDUCE RUNOFF.
- USE DESIGNATED WASH AREAS (PREFERABLY) OR USE BEMMED WASH AREAS OR OTHER MEASURES TO CONTAIN WASH WATER (SEE TABLE 2).
- STABILIZE ENTRANCES AND ON-SITE ROADS TO REDUCE OFF-SITE TRANSPORTATION OF SEDIMENTS.
- DESIGNATE A PAVED WASHING SITE FOR VEHICLES WHERE THE WATER WILL DRAIN DOWNSLOPE.
- DIVERT WASH WATER TO A VEGETATED AREA SO IT CAN PERCOLATE INTO THE GROUND.
- USE AT-GRADE STORM DRAINS FITTED WITH INSERTS; INSERTS HANG DOWN INTO A DRAINAGE CATCH BASIN TO FILTER OUT SOILS AND OTHER POLLUTANTS FROM RINSE WATER.
- RUNOFF, TRAPPED MATERIALS CAN BE REMOVED OR THE INSERTS REPLACED.
- WASH VEHICLES WITH BIODEGRADABLE, PHOSPHATE-FREE DETERGENT.
- USE NONTOXIC CLEANING PRODUCTS.
- IF POSSIBLE, USE "DRY" CLEANING METHODS (SUCH AS WIPING DOWN) RATHER THAN HOSEING EQUIPMENT.
- AVOID PRESSURE WASHING ON SITE IF COMMERCIAL WASHING FACILITIES ARE AVAILABLE.
- IF COMMERCIAL FACILITIES ARE NOT PRACTICAL, DESIGN A PRESSURE-WASHING AREA THAT CAN CAPTURE AND PROPERLY DISPOSE OF OR RECYCLE ALL OF THE WASH WATER. USE HIGH-PRESSURE, LOW-VOLUME WASHERS TO REDUCE OVERSPRAY.
- WHEN MULTI-STAGE WASHING IS PRACTICED, WASH AND RINSE WATERS CAN BE RECYCLED BY REUSING THE WATER FROM THE FINAL STAGE FOR THE FIRST PREWASH AND RINSE STAGE.
- PROPERLY CONTAIN, LABEL, AND DISPOSE OF CLEANUP MATERIALS (RAGS, TOWELS, ABSORBENT MATERIALS).
- TRAIN EMPLOYEES ON PROPER WASHING METHODS.

SEASONAL SOIL PROTECTION CHART

STABILIZATION PRACTICE	JAN.	FEB.	MAR.	APR.	MAY	JUNE	JULY	AUG.	SEPT.	OCT.	NOV.	DEC.
PERMANENT SEEDING	A											
DORMANT SEEDING	B											
TEMPORARY SEEDING	C											
SODDING	D											
MULCHING	E											

SEEDING PREPARATION:
1. TEST SOIL TO DETERMINE PH AND NUTRIENT LEVELS. (CONTACT YOUR COUNTY SWCD OR COOPERATIVE EXTENSION OFFICE FOR ASSISTANCE AND SOILS INFORMATION, INCLUDING AVAILABLE TESTING SERVICES.)
2. IF SOIL PH IS UNSUITABLE FOR THE SPECIES TO BE SEED,ED, APPLY LIME ACCORDING TO TEST RECOMMENDATIONS.
3. FERTILIZE AS RECOMMENDED BY THE SOIL TEST. IF TESTING IS NOT DONE, CONSIDER APPLYING 400-600 LBS./ ACRE OF 12-12-12 ANALYSIS, OR EQUIVALENT, FERTILIZER.
4. TILL THE SOIL TO OBTAIN A UNIFORM SEEDBED. WORKING THE FERTILIZER AND LIME INTO THE SOIL 2-4 IN. DEEP WITH A DISK OR RAKE OPERATED ACROSS THE SLOPE.
5. DO NOT USE PHOSPHORUS CONTAINING FERTILIZER (12-12-12) UNLESS SOIL TESTS DETERMINE THAT THERE IS A PHOSPHOROUS DEFICIENCY. USE PHOSPHOROUS FREE FERTILIZERS (12-0-12).
CSQP REQUIRES THAT ALL DISTURBED AREAS THAT WILL POTENTIALLY BE IDLE SHALL MEET THE REQUIREMENTS OF Sec. 3.4(c)(1) OF THE CSQP.
FOR ALL SEEDING CONDITIONS, DO NOT USE PHOSPHOROUS CONTAINING FERTILIZER (12-12-12) UNLESS SOIL TESTS DETERMINE THAT THERE IS A PHOSPHOROUS DEFICIENCY. USE PHOSPHOROUS FREE FERTILIZERS (12-0-12).
A = KENTUCKY BLUEGRASS 100 LBS/ACRE; CREEPING RED FESCUE 100 LBS/ACRE; PLUS 2 TONS STRAW MULCH/ACRE, OR ADD ANNUAL RYEGRASS 20 LBS/ACRE FERTILIZE AS RECOMMENDED BY SOIL TEST. IF TESTING IS NOT DONE, APPLY 400-600 LBS./ACRE OF 12-12-12 ANALYSIS, OR EQUIVALENT, FERTILIZER.
B = KENTUCKY BLUEGRASS 120 LBS/ACRE; CREEPING RED FESCUE 120 LBS/ACRE; PLUS 2 TONS STRAW MULCH/ACRE, OR ADD ANNUAL RYEGRASS 30 LBS/ACRE FERTILIZE AS RECOMMENDED BY SOIL TEST. IF TESTING IS NOT DONE, APPLY 400-600 LBS./ACRE OF 12-12-12 ANALYSIS, OR EQUIVALENT, FERTILIZER.
C = SPRING OATS 3 BUSHELS/ACRE FERTILIZE AS RECOMMENDED BY SOIL TEST. IF TESTING IS NOT DONE, APPLY 400-600 LBS./ACRE OF 12-12-12 ANALYSIS, OR EQUIVALENT, FERTILIZER.
D = WHEAT OR RYE 2 BUSHELS/ACRE FERTILIZE AS RECOMMENDED BY SOIL TEST. IF TESTING IS NOT DONE, APPLY 400-600 LBS./ACRE OF 12-12-12 ANALYSIS, OR EQUIVALENT, FERTILIZER.
E = ANNUAL RYEGRASS 40 LBS/ACRE (1 LB/1000 SQ. FT.) FERTILIZE AS RECOMMENDED BY SOIL TEST. IF TESTING IS NOT DONE, APPLY 400-600 LBS./ACRE OF 12-12-12 ANALYSIS, OR EQUIVALENT, FERTILIZER.
F = SOD
G = STRAW MULCH 2 TONS/ACRE
• /•• = IRRIGATION NEEDED DURING JUNE, JULY, AUGUST AND/OR SEPTEMBER
•• = IRRIGATION NEEDED FOR 2 WEEKS AFTER SUPPLYING SOD

STORMWATER POLLUTION PREVENTION SCHEDULE		
STORMWATER POLLUTION PREVENTION MEASURE	MAINTENANCE	INSTALLATION SEQUENCE
STONE ENTRANCE	INSPECT WEEKLY, AFTER STORM EVENTS, AND AFTER HEAVY USE; RESHAPE PAD AS NEEDED FOR DRAINAGE AND RUNOFF CONTROL; TOPDRESS WITH CLEAN STONE AS NEEDED; REMOVE ALL MUD AND SEDIMENT TRACKED OR WASHED ONTO PUBLIC ROADS IMMEDIATELY	PRIOR TO CLEARING AND GRADING
SILT FENCE	INSPECT AFTER STORM EVENTS; REPAIR ANY AREAS OF DECOMPOSITION OR DAMAGE TO FENCE MATERIAL; REMOVE SEDIMENT AT DEPTH OF ONE HALF FENCE HEIGHT AT LOWEST POINT OR IF FABRIC BULGES; AVOID UNDERMINING DURING CLEANOUT	PRIOR TO CLEARING AND GRADING
EXISTING INLET PROTECTION	WEEKLY, AFTER STORM EVENTS, AND AS NEEDED	PRIOR TO CLEARING AND GRADING
TREE PROTECTION	WEEKLY, AFTER STORM EVENTS, AND AS NEEDED	PRIOR TO CLEARING AND GRADING
TOPSOIL STOCKPILE	DETERMINE DEPTH AND SUITABILITY OF TOPSOIL AT THE SITE. (FOR HELP, CONTACT YOUR LOCAL SWCD OFFICE TO OBTAIN A COUNTY SOIL SURVEY REPORT OR CONSULT WITH A SOIL SCIENTIST). PRIOR TO STRIPPING TOPSOIL, INSTALL ANY SITE-SPECIFIC DOWNSLOPE PRACTICES TO REMOVE THE SOIL MATERIAL NO DEEPER THAN WHAT THE COUNTY SOIL SURVEY DESCRIBES AS "SURFACE SOIL" (E.G. 4" OR 6" HORIZON). STOCKPILE THE MATERIAL IN ACCESSIBLE LOCATIONS THAT NEITHER INTERFERE WITH OTHER CONSTRUCTION ACTIVITIES NOR BLOCK NATURAL DRAINAGE AND INSTALL SILT FENCES, STRAW BALES, OR OTHER BARRIERS TO TRAP SEDIMENT (SEE EXHIBIT 3.02-B). (SEVERAL SMALL PILES AROUND THE CONSTRUCTION SITE ARE MORE EFFICIENT AND EASIER TO CONTAIN THAN ONE LARGE PILE.) IF SOIL IS STOCKPILED FOR MORE THAN 6 MONTHS, IT SHOULD BE TEMPORARILY SEED OR COVERED WITH A TARP OR SURVEYED BY A SOILMENT BUREAU.	PRIOR TO CLEARING AND GRADING
TEMPORARY SEDIMENT TRAP	INSPECT AFTER STORM EVENTS; REMOVE SEDIMENT AT ONE HALF DESIGN DEPTH; REPLACE SPILLWAY GRAVEL FACILITY IF CLOGGED; REPAIR EROSION AND HOLES AS NEEDED; REPLACE DISPLACED RIPRAP	DURING CLEARING AND PRIOR TO GRADING
TEMPORARY SEEDING	INSPECT PERIODICALLY TO VERIFY ADEQUATE ESTABLISHMENT OF VEGETATIVE STANDS; RESEED AND MULCH AS NEEDED; INSPECT AFTER STORM EVENTS AND REPAIR EROSION DAMAGE; TOPDRESS FALL SEEDS WHEAT OR RYE SEEDINGS WITH 50 LBS/AC OF NITROGEN IN FEBRUARY OR MARCH IF NITROGEN DEFICIENCY IS APPARENT; WATER AS NEEDED	AFTER ROUGH GRADING
PERMANENT SEEDING	INSPECT PERIODICALLY AND AFTER STORM EVENTS UNTIL VEGETATIVE STAND IS ESTABLISHED; ADD FERTILIZER AFTER GROWING SEASON PER SOIL TEST RECOMMENDATIONS; REPAIR DAMAGED BARE, OR SPARSE AREAS BY FILLING, REPREPARING THE SEED BED, FERTILIZING, AND/OR SEEDING AND MULCHING	AFTER FINISH GRADING OF EACH AREA
EROSION CONTROL BLANKET	INSPECT FOR AREAS OF EROSION BELOW THE BLANKET AFTER EACH STORM EVENT; REPAIR AREAS OF EROSION BY REMOVING AFFECTED PORTION OF BLANKET, ADD SOIL, RESEED, RELAY AND STRIKE BLANKET; INSPECT PERIODICALLY AFTER VEGETATION IS ESTABLISHED	AFTER FINISH GRADING
INLET PROTECTION	INSPECT FABRIC BARRIER AFTER STORM EVENTS AND MAKE NEEDED REPAIRS IMMEDIATELY; REMOVE SEDIMENT FROM THE POOL AREA WHILE AVOIDING DAMAGING OR UNDERCUTTING THE FABRIC	AFTER EACH INLET IS PLACED
SEED, SOD & LANDSCAPE AROUND UNITS FINISHED	KEEP SOD MOIST UNTIL FULLY ROOTED; WATER AS NEEDED	AFTER FINISHED GRADING AROUND FINISHED UNITS
REMOVAL OF INLET PROTECTION	N/A	AFTER ALL AREAS DRAINING TO THESE AREAS ARE STABILIZED
REMOVAL OF SILT FENCE	N/A	AFTER ALL AREAS DRAINING TO THESE AREAS ARE STABILIZED

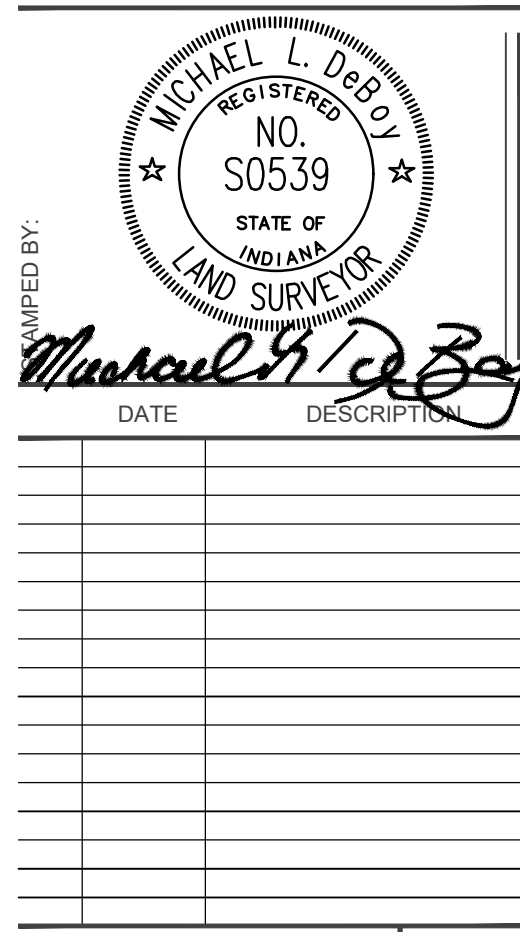
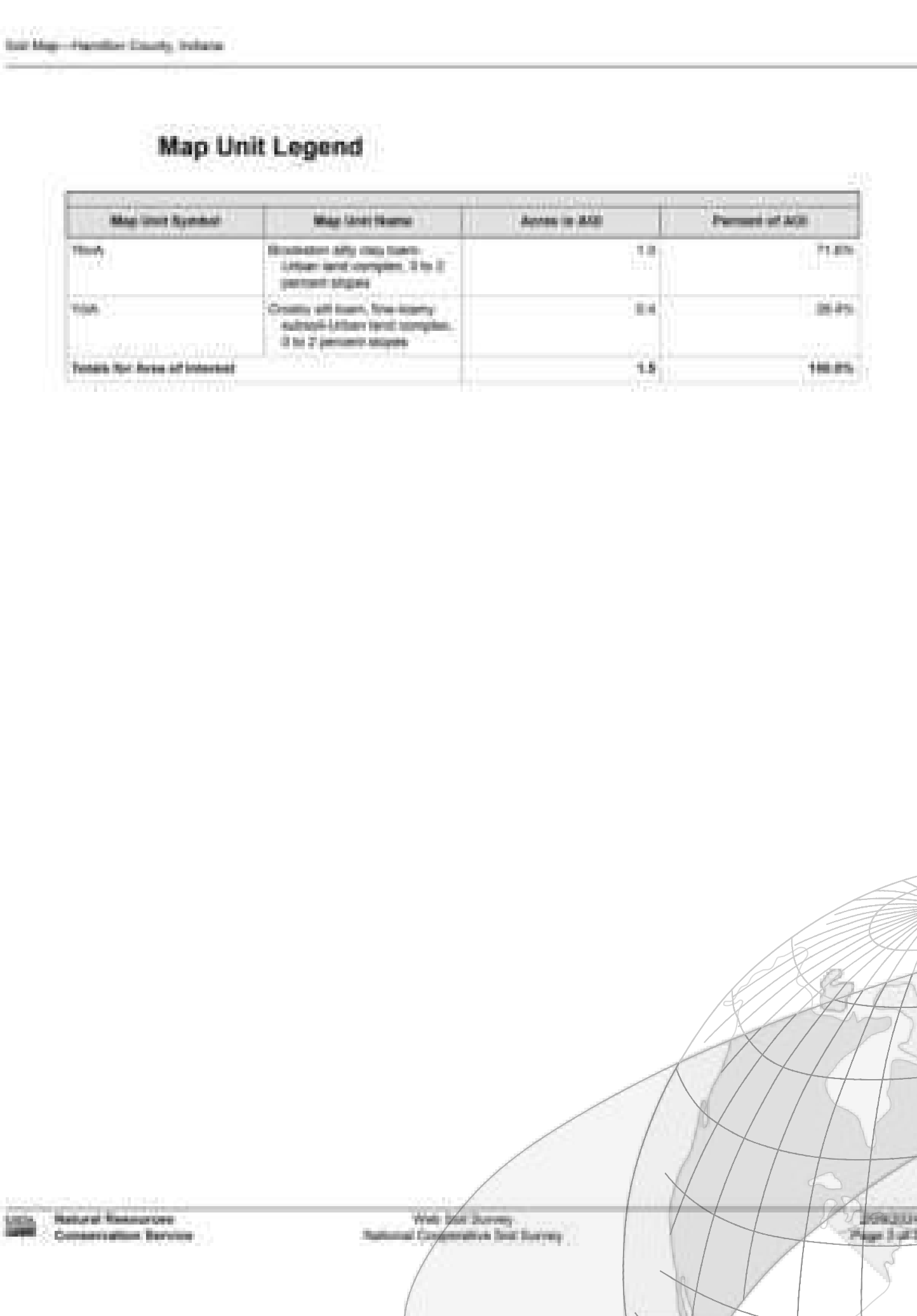
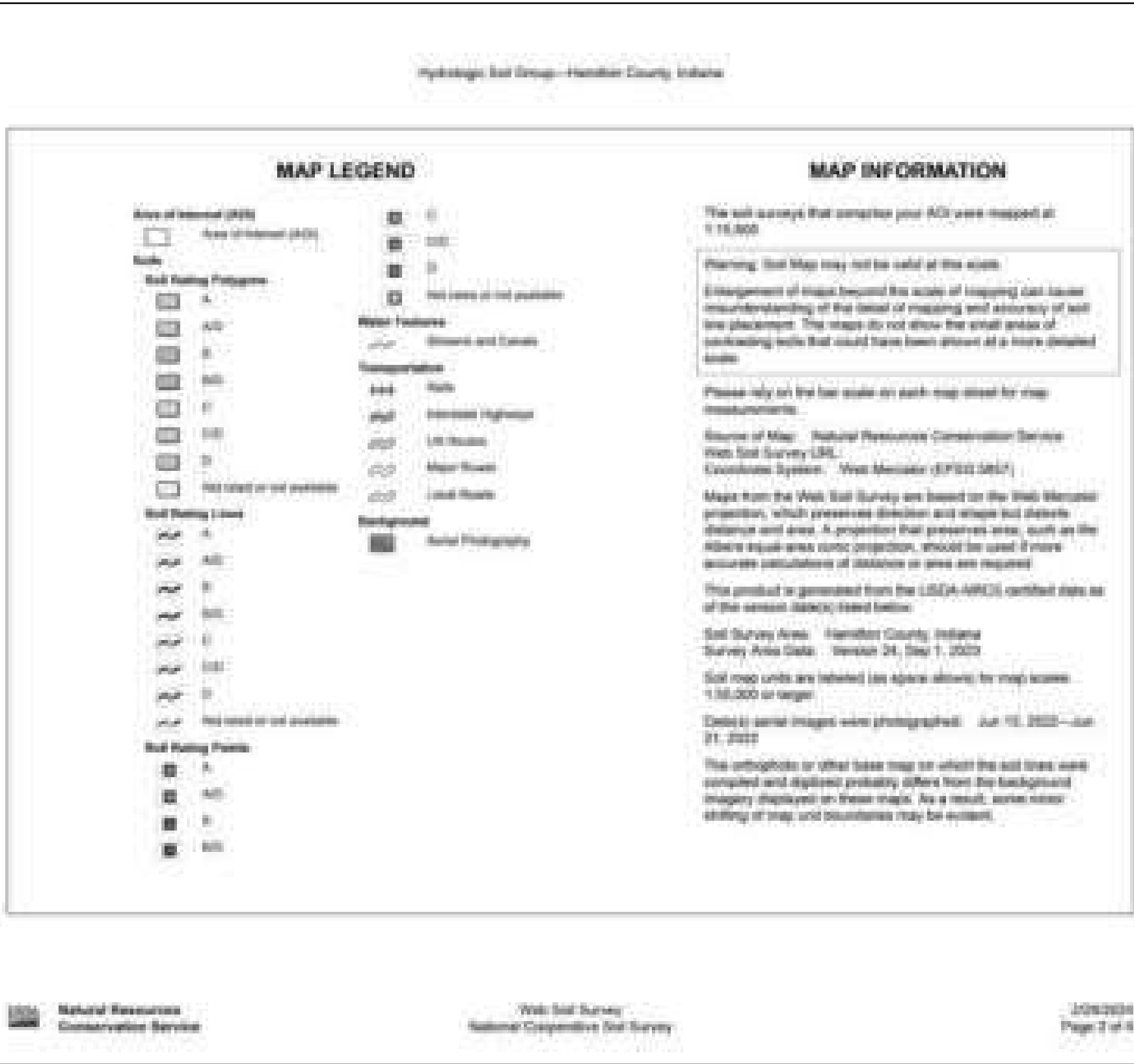
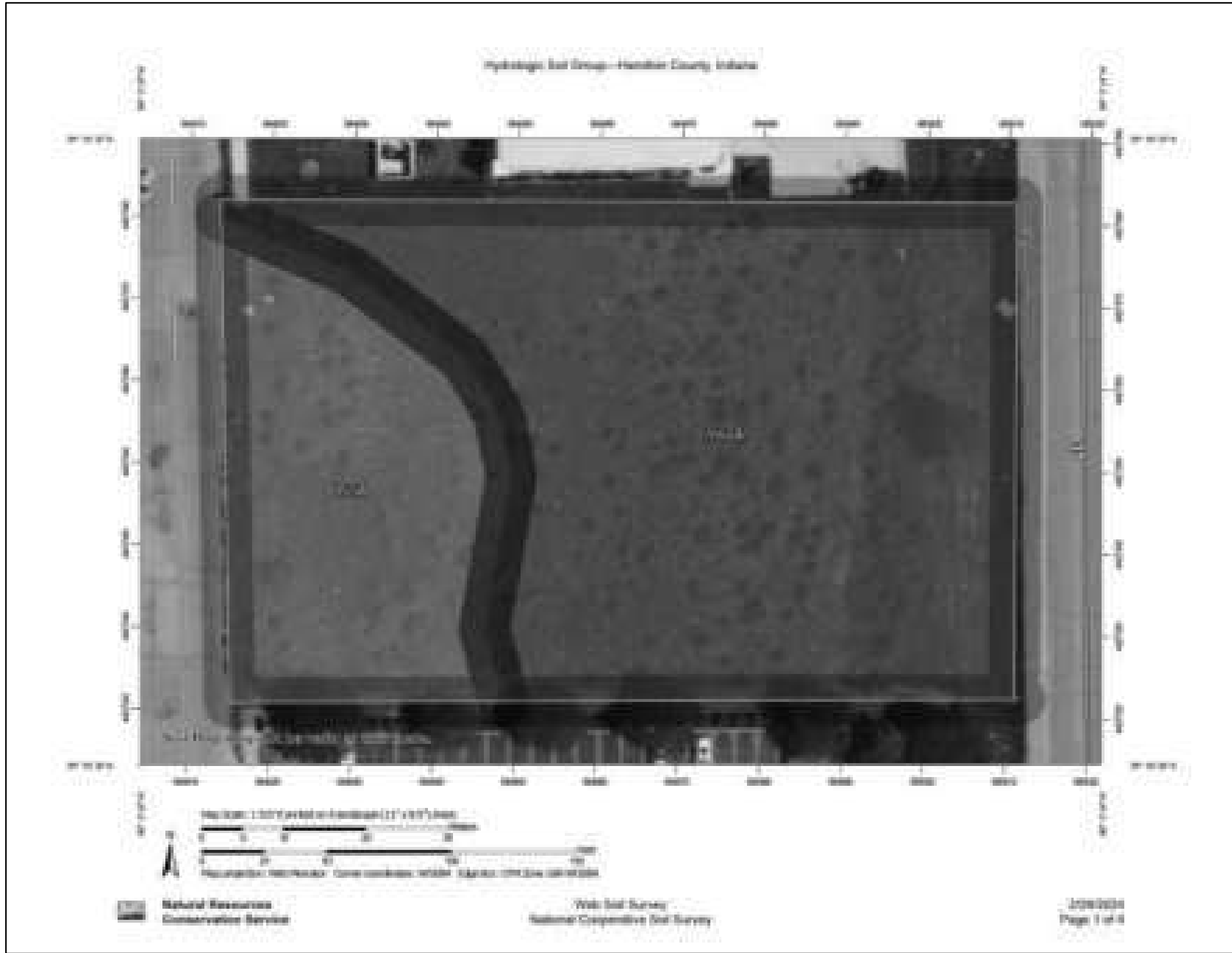
NOTE: TEMPORARY STORMWATER QUALITY MEASURES DETAILED IN THE NOBLESVILLE CONSTRUCTION STANDARDS SHALL BE MAINTAINED IN GOOD CONDITION IN ACCORDANCE WITH THE MAINTENANCE PROCEDURES AND SCHEDULES LISTED IN CHAPTER 7 OF THE INDIANA STORMWATER QUALITY MANUAL.

PLDS

DEBOY LAND DEVELOPMENT SERVICES

Designers-Engineers-Surveyors

P.O. BOX 28,



SAMUEL'S AUTO SALES
TAC REVIEW
14033 TRADE CENTER DR, FISHERS, INDIANA

CLIENT NAME/DEVELOPER/OWNER:
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C/O DONALD HIGHLANDER
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DON@CONNECTINGSPACES.COM

DESIGNED: MLD APPROVED: MLD
DRAWN: BAW CHECKED BY: MLD
SCALE: NTS DATE: 03-01-24
PROJECT NO.: 2023-0004

C103

UTILITY NOTES

- SEE UTILITY PLAN, SHEET C300, FOR SYMBOL AND LINE TYPE LEGENDS.
- THE CONTRACTOR SHALL CONTACT APPLICABLE STATE UNDERGROUND LOCATION SERVICE AT LEAST 72 HOURS PRIOR TO ANY WORK AND SHALL CONTACT THE OWNER AND/OR ENGINEER SHOULD UTILITIES APPEAR TO BE IN CONFLICT WITH THE PROPOSED IMPROVEMENTS. IT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR TO RELOCATE ALL EXISTING UTILITIES WHICH CONFLICT WITH THE PROPOSED IMPROVEMENTS SHOWN ON THE PLANS.
- THE PLANS SHOW THE LOCATION OF ALL KNOWN UTILITIES LOCATED WITHIN THE LIMITS OF CONSTRUCTION ACCORDING TO INFORMATION PROVIDED BY THE VARIOUS UTILITY COMPANIES, PREVIOUS CONSTRUCTION PLANS AND AS EVIDENCE BY OBSERVATION OF ABOVE GROUND CONDITIONS BY THE SURVEYOR, THE ACCURACY OF THIS INFORMATION IS NOT GUARANTEED.
- THE CONTRACTOR SHALL CONTACT ALL UTILITY COMPANIES TO LOCATE MAINS, CONDUITS, SERVICE LINES, ETC., WITHIN THE CONSTRUCTION LIMITS, THE LOCATION AND PROTECTION OF UTILITY STRUCTURES, THEIR SUPPORT AND MAINTENANCE DURING CONSTRUCTION (IN COOPERATION WITH APPLICABLE UTILITY COMPANY) IS THE EXPRESSED RESPONSIBILITY OF THE CONTRACTOR.
- THE CONTRACTOR SHALL CONTACT ALL APPLICABLE UTILITIES AND VERIFY ANY AND ALL FEES ASSOCIATED WITH THE INSTALLATION OF ALL UTILITIES.
- ALL CONSTRUCTION ON THIS SITE TO BE PERFORMED IN COMPLIANCE WITH OSHA STANDARDS FOR WORKER SAFETY.
- ANY PART OF SANITARY TRENCHES RUNNING UNDER OR WITHIN 5' OF PAVEMENT TO BE BACKFILLED WITH GRANULAR MATERIAL.
- IT IS THE CONTRACTOR'S RESPONSIBILITY TO VERIFY LOCATION, SIZE, AND ELEVATION OF EXISTING UTILITIES, STRUCTURES, PIPES, PAVEMENTS, ETC., AS RELATED TO THEIR WORK; NOTIFY ENGINEER OF ANY CONFLICT AND/OR DISCREPANCIES IN THE CONSTRUCTION DOCUMENTS.
- MAINTAIN 10' HORIZONTAL AND 18" VERTICAL CLEARANCE BETWEEN STORM/SANITARY SEWER SYSTEMS AND DOMESTIC/FIRE LINE SERVICE, SANITARY SEWER LINE IN PROXIMITY OF WATER LINE SHALL BE 000 WATER MAIN GRADE PVC.
- CONTRACTOR TO INSTALL CONCRETE CRADLES WHEN THE VERTICAL SEPARATION (AS MEASURED FROM THE EXTERIOR OF THE PIPES) BETWEEN SANITARY SEWERS, WATER MAINS AND STORM SEWERS IS 18" OR LESS.
- IF ANY EXISTING STRUCTURES TO REMAIN ARE DAMAGED DURING CONSTRUCTION, IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO REPAIR AND/OR REPLACE THE EXISTING STRUCTURE AS NECESSARY TO RETURN IT TO EXISTING CONDITIONS OR BETTER.
- WHEN PERFORMING EXCAVATIONS DURING PERIODS OF WET WEATHER, PROVIDE ADEQUATE DEWATERING, DRAINAGE AND GROUND WATER MANAGEMENT TO CONTROL MOISTURE OF SOILS.
- COMPACTED "B" BORROW BACK FILL REQUIRED OVER ALL UTILITIES IN PAVED AREAS.
- ALL UTILITY STRUCTURES IN PAVED AREAS SHALL BE FLUSH WITH PAVEMENT AND SHALL HAVE TRAFFIC BEARING RING AND COVERS.
- FOLLOW ALL LOCAL AND STATE CODES IN REFERENCE TO SANITARY SEWER INSTALLATION.
- SANITARY SEWER LATERAL SHALL BE GRANULAR BACKFILL FOR ENTIRE RUN.
- ALL EXISTING MANHOLES SHALL BE ADJUSTED TO NEW FINISH GRADE ELEVATIONS.
- ONLY LATERAL STUBS MAY BE INSTALLED WITH THE MAIN. ALL LATERALS MUST OBTAIN A SEPARATE LATERAL PERMIT.

- RIGHT-OF-WAY CLEANOUTS WILL BE REQUIRED AT THE EASEMENT LINE FOR SOME LONGER LATERALS. DURING THE LATERAL REVIEW PERMITTING PROCESS TO DETERMINE WHERE RIGHT-OF-WAY CLEANOUTS WILL BE REQUIRED.
- SANITARY SEWER CLEANOUTS SHALL USE DETAILS AS FOUND ON SHEET 12 OF THE NOBLESVILLE CITY STANDARDS DETAIL DRAWINGS.
- SANITARY SEWER SERVICE LATERALS SHALL BE SDR-35.
- SANITARY SEWER SERVICE LATERAL SHALL BE 6" DIAMETER AND MAINTAIN A 1% SLOPE WITHIN THE LATERAL PIPE.

SITE UTILITY PLAN

SCALE: 1" = 20'



SITE UTILITY LEGEND

- NEW STORM SEWER - 48" INT. BARREL
- NEW STORM SEWER - 60" INT. BARREL
- NEW STORM SEWER - 72" INT. BARREL
- NEW STORM SEWER - 96" INT. BARREL
- NEW PIPE END SECTION
- NEW STORM INLET - 24"x24" INT. BOX
- NEW SANITARY STRUCTURE
- NEW SANITARY SEWER CLEANOUT
- NEW ELEC. METER / GAS METER / WATER METER
- NEW FIRE HYDRANT / POST INDICATOR VALVE
- / FIRE DEPT CONC. / WATER LINE ELBOW
- LIMITS OF CONSTRUCTION
- NEW STORM SEWER
- NEW RIP-RAP

PIV

FDC

WME

STM

WATER METER

UTILITY STATEMENT

THE EXISTING UNDERGROUND UTILITIES SHOWN HAVE BEEN LOCATED FROM VISIBLE FIELD EVIDENCE AND / OR EXISTING DRAWINGS. DEBOY LAND DEVELOPMENT SERVICES (DLDS) MAKES NO GUARANTEES THAT THE UTILITY INFORMATION SHOWN COMPROMISES ALL SUCH UTILITIES IN THE AREA, IN SERVICE OR ABANDONED. DEBOY LAND DEVELOPMENT SERVICES (DLDS), FURTHER, STATES THAT THE UNDERGROUND UTILITY DATA SHOWN DOES NOT INDICATES PRECISE LOCATIONS.

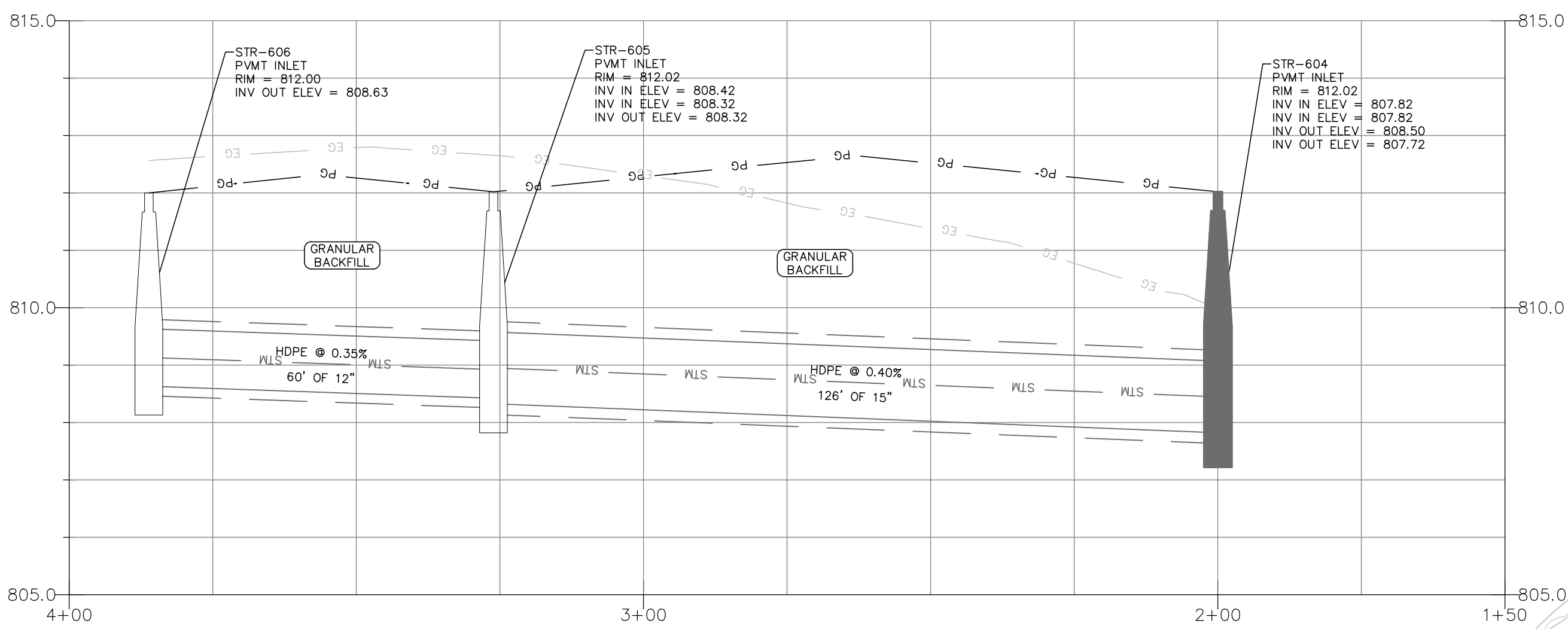
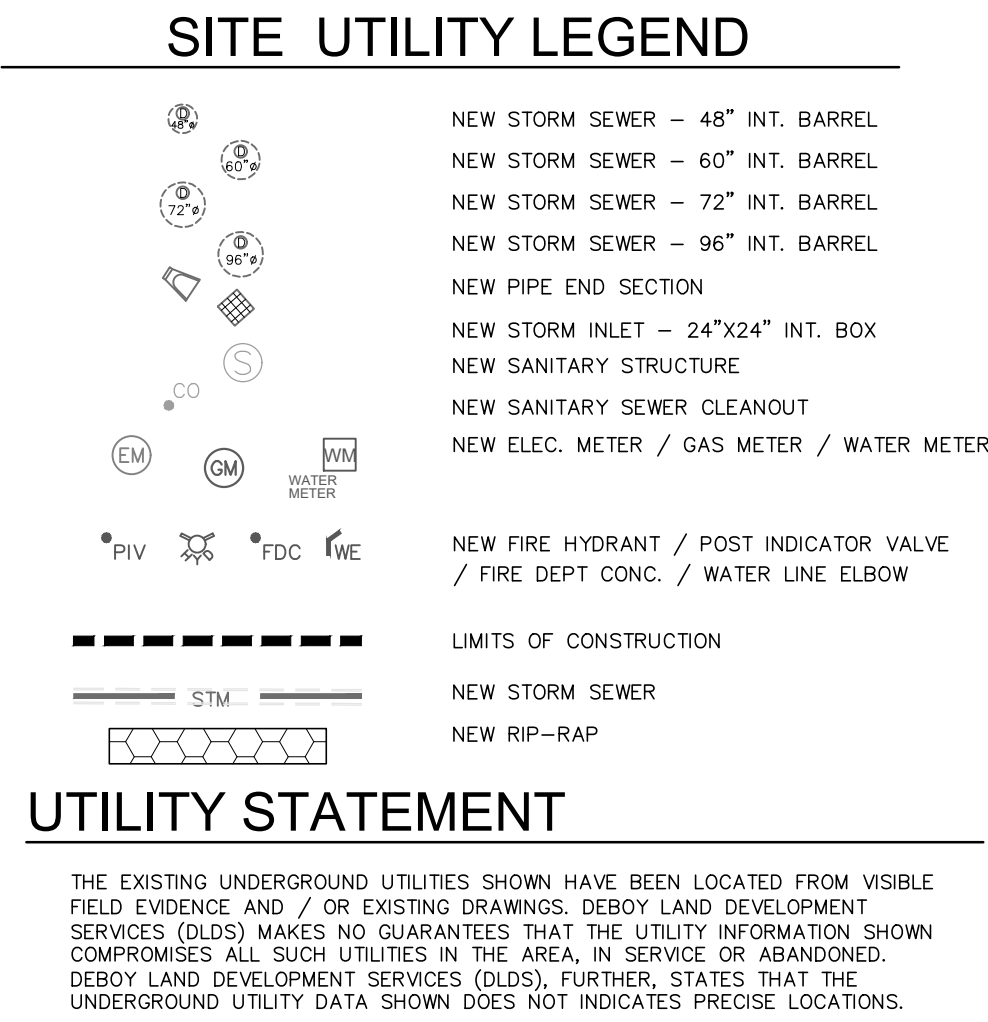
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14033 TRADE CENTER DR, FISHERS, INDIANA

SITE UTILITY PLAN

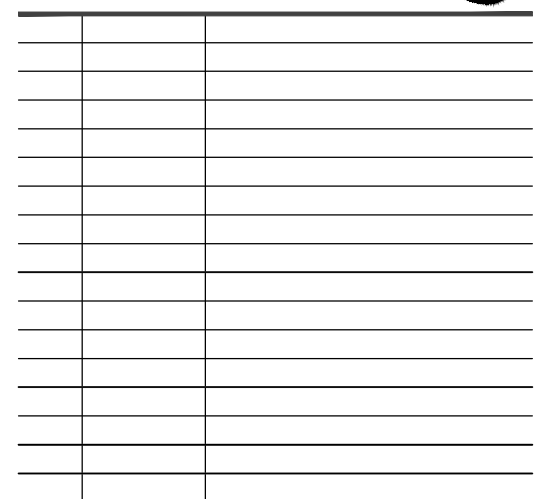
CLIENT NAME/DEVELOPER/OWNER:
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©2024 (DLDS) DeBoy Land Development Services, Inc.
DESIGNED: MLD APPROVED: MLD
DRAWN: BAW CHECKED BY: MLD
SCALE: 1" = 20' DATE: 03-01-24
PROJECT NO.: 2023-0004

C300

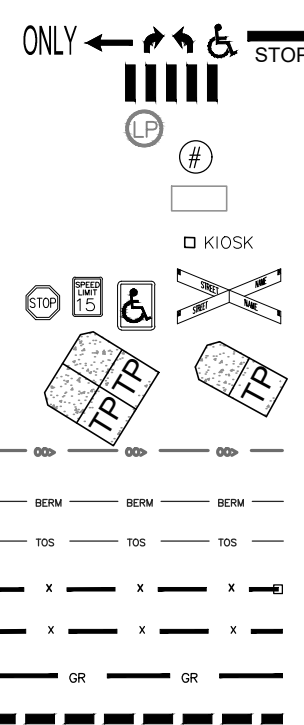
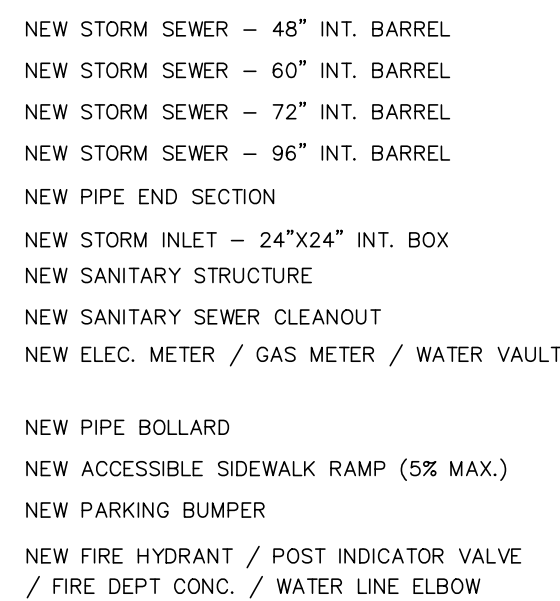


PROFILE VIEW: STR-604-605-606

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TAC REVIEW
14033 TRADE CENTER DR, FISHERS, INDIANA



SITE PLAN



NEW THERMAL/PLASTIC EMBLEMS

NEW LIGHT POLES; SEE ELEC. PLANS

PARKING SPACE COUNT (9'0"x20' TYP.)

NEW AREA PARKING SPACE (9'0"x20' TYP.)

NEW MAILBOX KIOSK

NEW STREET SIGN / SPEED LIMIT SIGN
/ STOP SIGN / ACCESSIBLE PARKING SIGN

NEW DOUBLE TRASH PAD

NEW SINGLE TRASH PAD

NEW WALK FLOWLINE @ 1.0% MIN.

NEW BERM

NEW TOP OF SLOPE

NEW FENCE PANEL SEE DETAILS ON LS2

NEW 8.0' TALL, SHADOW BOX, WOOD FENCE

NEW WOOD GUARDRAIL

LIMITS OF CONSTRUCTION



NEW ASPHALT PAVEMENT
NEW BUILDING
NEW INTEGRAL WALK AND CURB
NEW 6" STRAIGHT CONCRETE CURB

NEW 24" WIDE CONCRETE SLOPED CURB

NEW ACCESSIBLE SIDEWALK RAMP WITH
TACTILE WARNING PER INDOT STANDARD
DETAIL DRAWING E 604-SWCR-06 & E
604-SWCR-12

NEW 4" WIDE TRAFFIC PAVEMENT MARKINGS
NEW CHAINLINK FENCE GATE; SLIDE GATE
NEW CONCRETE PAVEMENT

NEW ACCESSIBLE SPACE/PARKING SIGN/
BUMPER AND BLUE THERMALPAK EMBLEM

NEW LANDSCAPE AREA

CONCRETE DUMPSTER PAD; SEE ARCHITECTURAL PLANS FOR WALLS

DUMPSTER PAD CONCRETE REACTION PAD

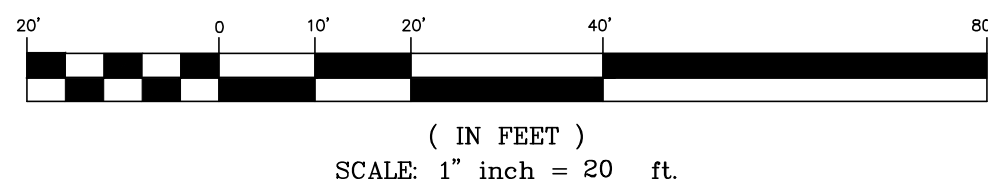
NEW SIDEWALK PER CITY STANDARDS IN RIGHT OF WAY

EXISTING SIDEWALK

NEW DEPRESSURED CURB ALONG CURB LINE OF
TRADE CENTER DRIVE; SEE CITY DETAILS

NEW DEPRESSURED CURB FOR ONSITE
PURPOSES

BMP CONCRETE SLAB



PARKING SUMMARY:

REQUIRED:

1 PARKING STALL PER 800 SF

10,920 SF BUILDING = 14 PARKING STALLS

PROPOSED:

10' X 18' PARKING STALLS

ADA ACCESSIBLE PARKING STALL

TOTAL PARKING PROPOSED

CLIENT NAME/DEVELOPER/OWNER:
EMAD AYAD
C/O DONALD HIGHLANDER
8306 PENDLETON PIKE
INDIANAPOLIS, IN 46226
330-653-5320
DON@CONNECTINGSPACES.COM

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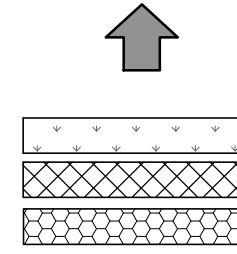
DESIGNED: MLD	APPROVED: MLD
DRAWN: BAW	CHECKED BY: MLD
SCALE: 1" = 20'	DATE: 04-28-23
PROJECT NO.: 2023-0004	

C600

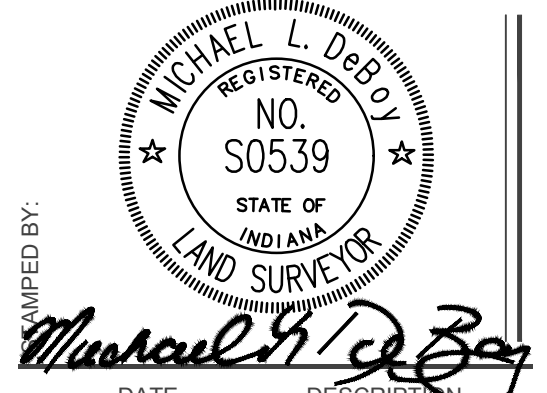
NOTE: IF ANY DISTURBED LAND IS TO BE LEFT UNDISTURBED FOR MORE THAN 15 DAYS, THEN TEMPORARY SEEDING WILL BE REQUIRED ON THE DISTURBED LAND.



NEW RIP-RAP



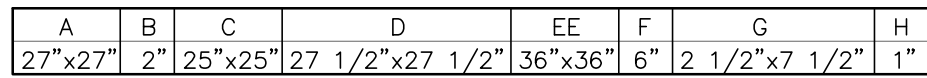
PREPARED BY:



DATE	DESCRIPTION
------	-------------

POST-SWPPP

PROJECT: F:\Civsurvey Design Aides\Projects\DLDS\2023\2023-0004 - 14033 Trader Center - Fisher - Emad Ayod\ENGINEERING\DRAWINGS\SHEETS
DWG: C700 POST-SWPPP.dwg
PLOTTED BY: B WHITE
DATE: Thursday, February 29, 2024 4:16 PM



NEENAH R-3405-A

Technical drawing of a rectangular frame. The overall width is 34". The inner width is 24 1/4". The overall height is 7". The inner height is 1 3/4". The frame has a thickness of 1 3/4". The drawing shows a cross-section of the frame with a central rectangular opening.

NEENAH R-1772

Unless other traffic barriers are present, bollards shall be placed around access riser(s) in non-traffic areas to prevent inadvertent loading by maintenance vehicles.

48 in [1219 mm] Min.

12 in [305 mm]

4 1/2 in [114 mm]

8 in [203 mm]

1/2 in [13 mm]

1/2 in [13 mm]

Concrete

Cover

Frame

Riser

Soil

Gravel Backfill

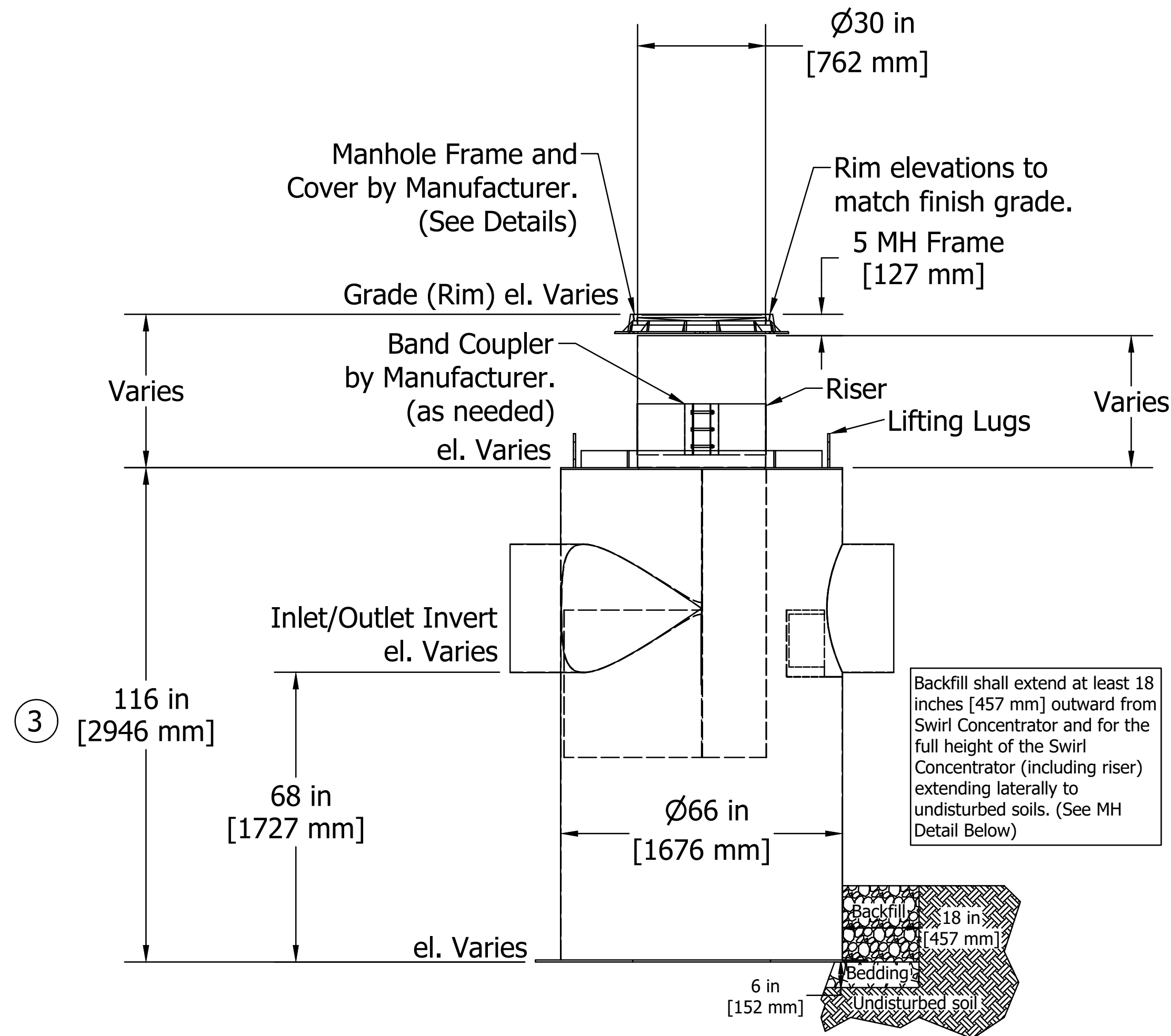
Backfill (90% Proctor Density)

Wrap Compressible Expansion Joint Material to a minimum 1/2-inch [13 mm] thickness around top of riser to allow transfer of inadvertent loading from manhole cover to concrete slab.

Place small amount of concrete [3,000 psi [20 MPa] (min)] to support and level manhole frame DO NOT allow manhole frame to rest upon riser.

**Manhole Frame & Cover Detail
For Non-Traffic Areas Only
NTS**

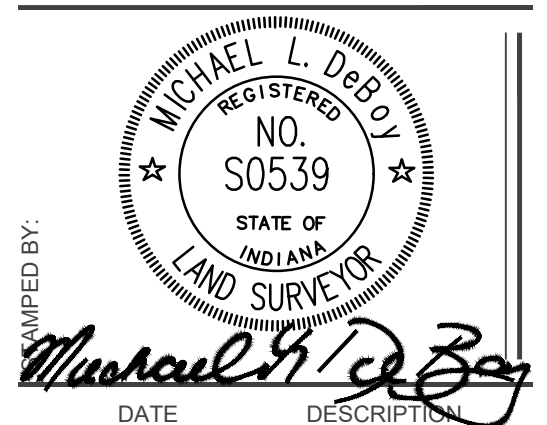
If traffic loading [HS-25] is required or anticipated, a 4-foot [1.22 m] diameter, 14-inch [356 mm] thick reinforced concrete pad must be placed over the Stormwater Treatment System Riser to support and level the manhole frame, as shown. The top of riser pipe must be wrapped with compressible expansion joint material to a minimum 1/2-inch [13 mm] thickness to allow transfer of wheel loads from manhole cover to concrete slab. Manhole cover shall bear on concrete slab and not on riser pipe. The concrete slab shall have a minimum strength of 3,000 psi [20 MPa] and be reinforced with #4 [13 mm] reinforcing steel as shown. Minimum cover over reinforcing steel shall be 1-inch [25 mm]. Top of manhole cover and concrete slab shall be level with finish grade.



Structure #:	XC-5 STD	Rvwed	Rvw. Date
Drawn By:	OFlores		
Scale:	As Shown		
Date:	2/25/2021		
U.S. Patent No. 6524473 and other Patent Pending			

PREPARED BY:

STAMPED BY:



SAMUEL'S AUTO SALES TAC REVIEW

14033 TRADE CENTER DR, FISHERS, INDIANA

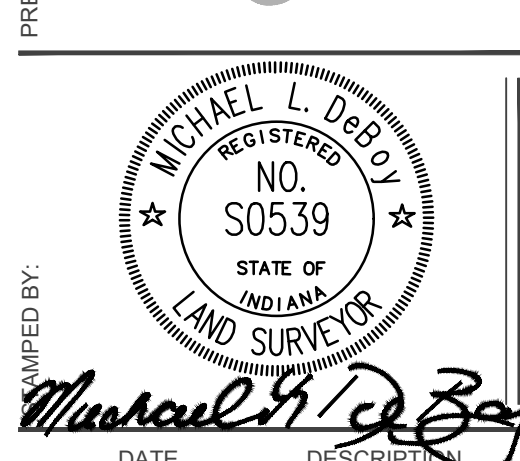
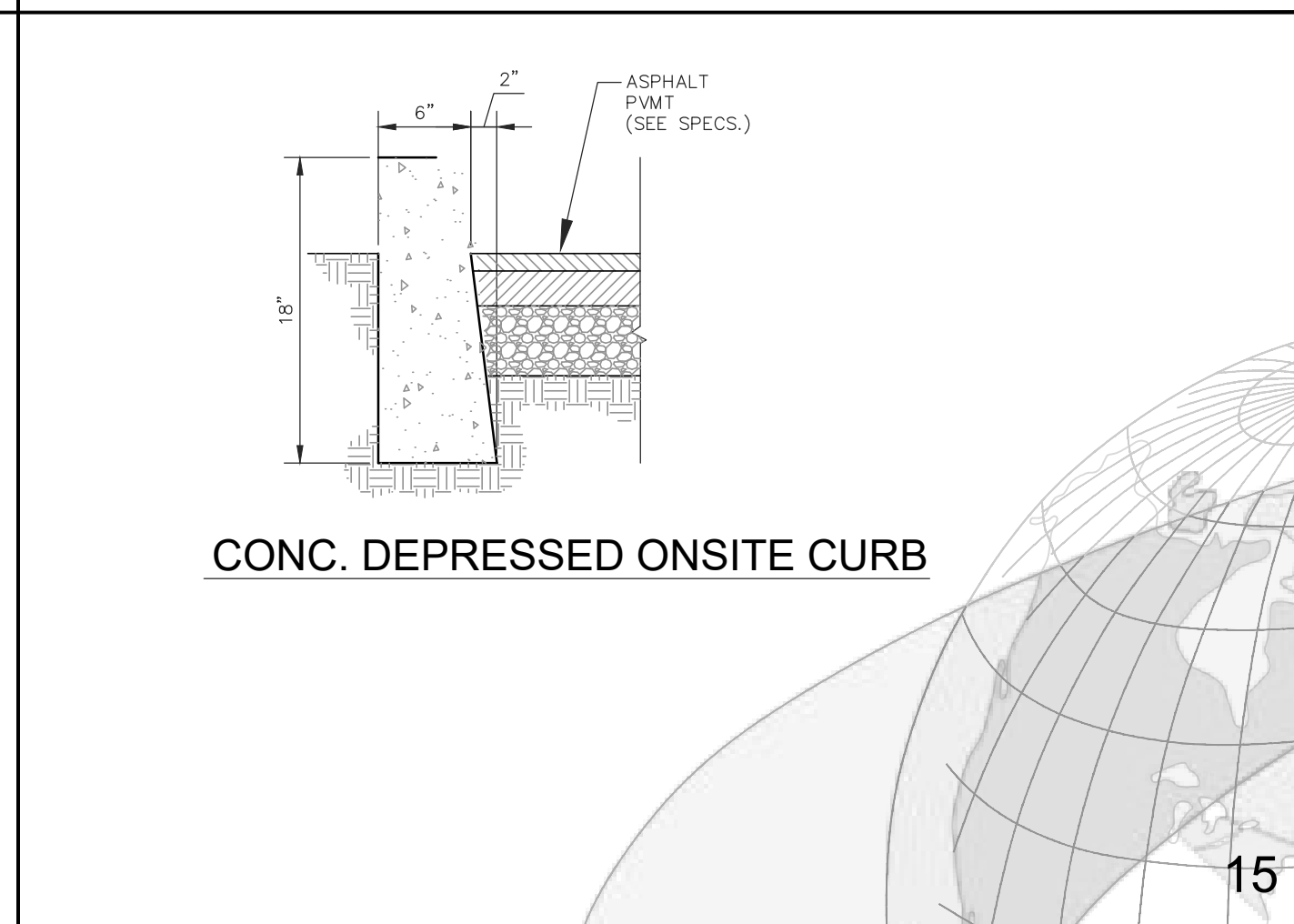
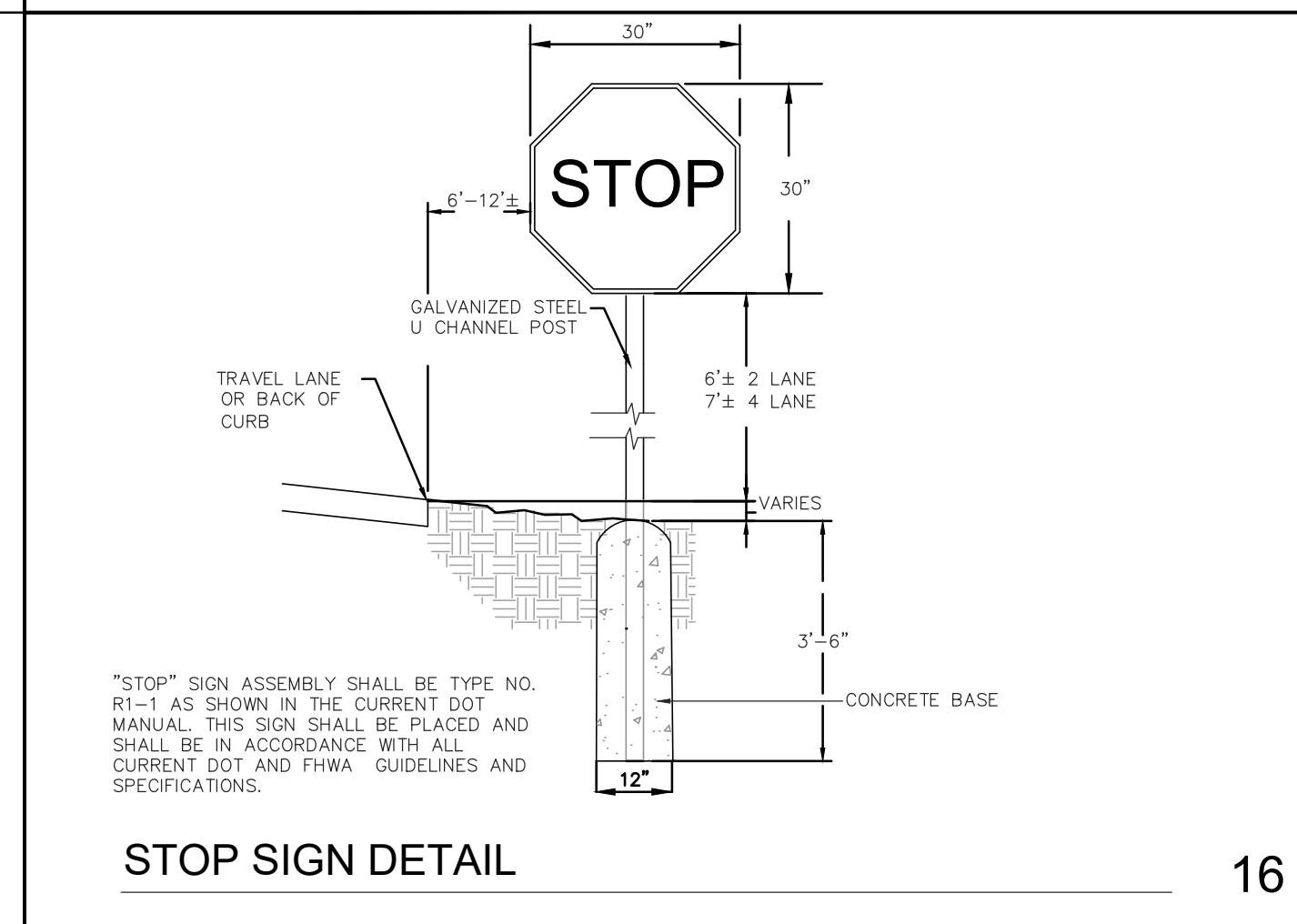
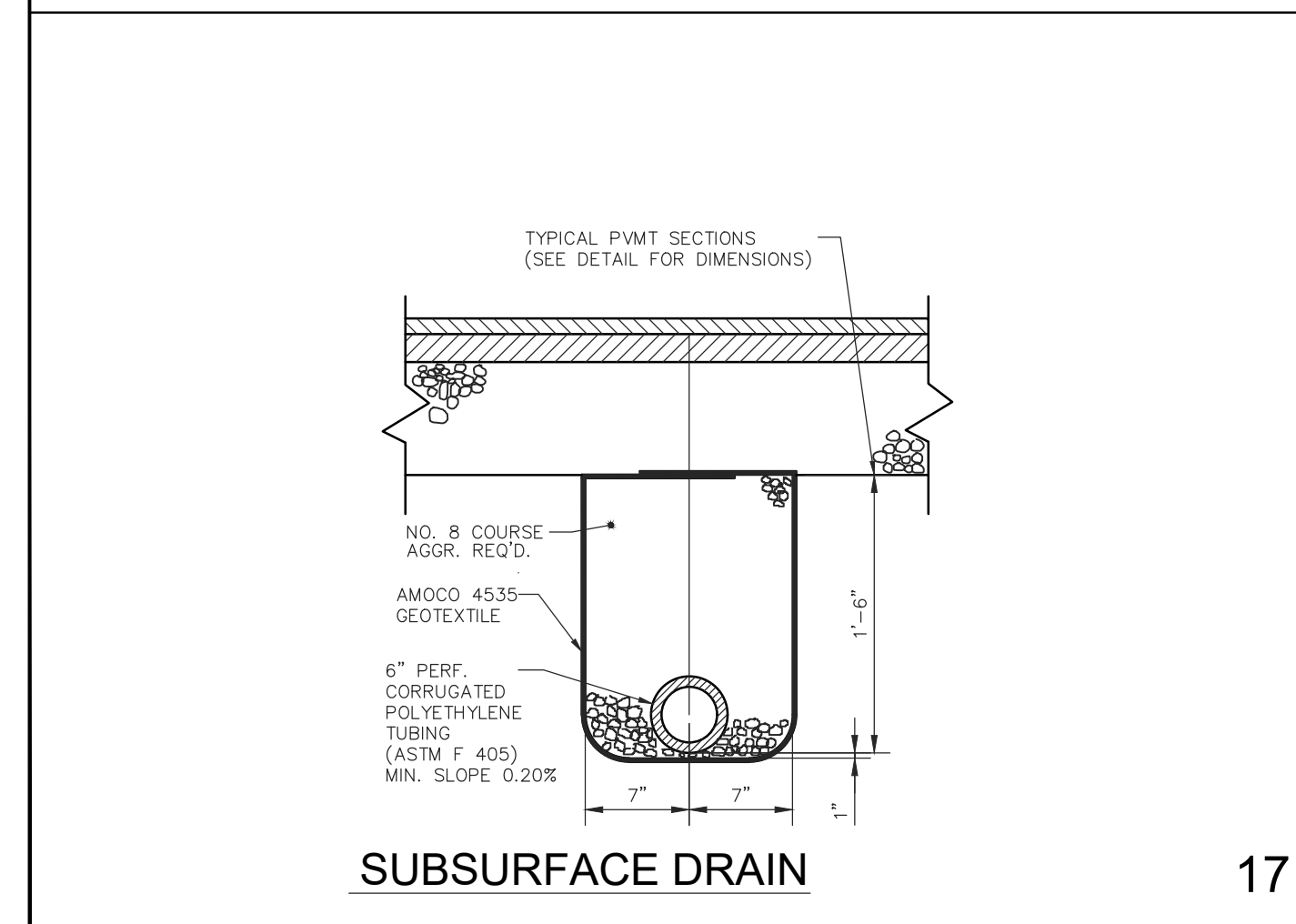
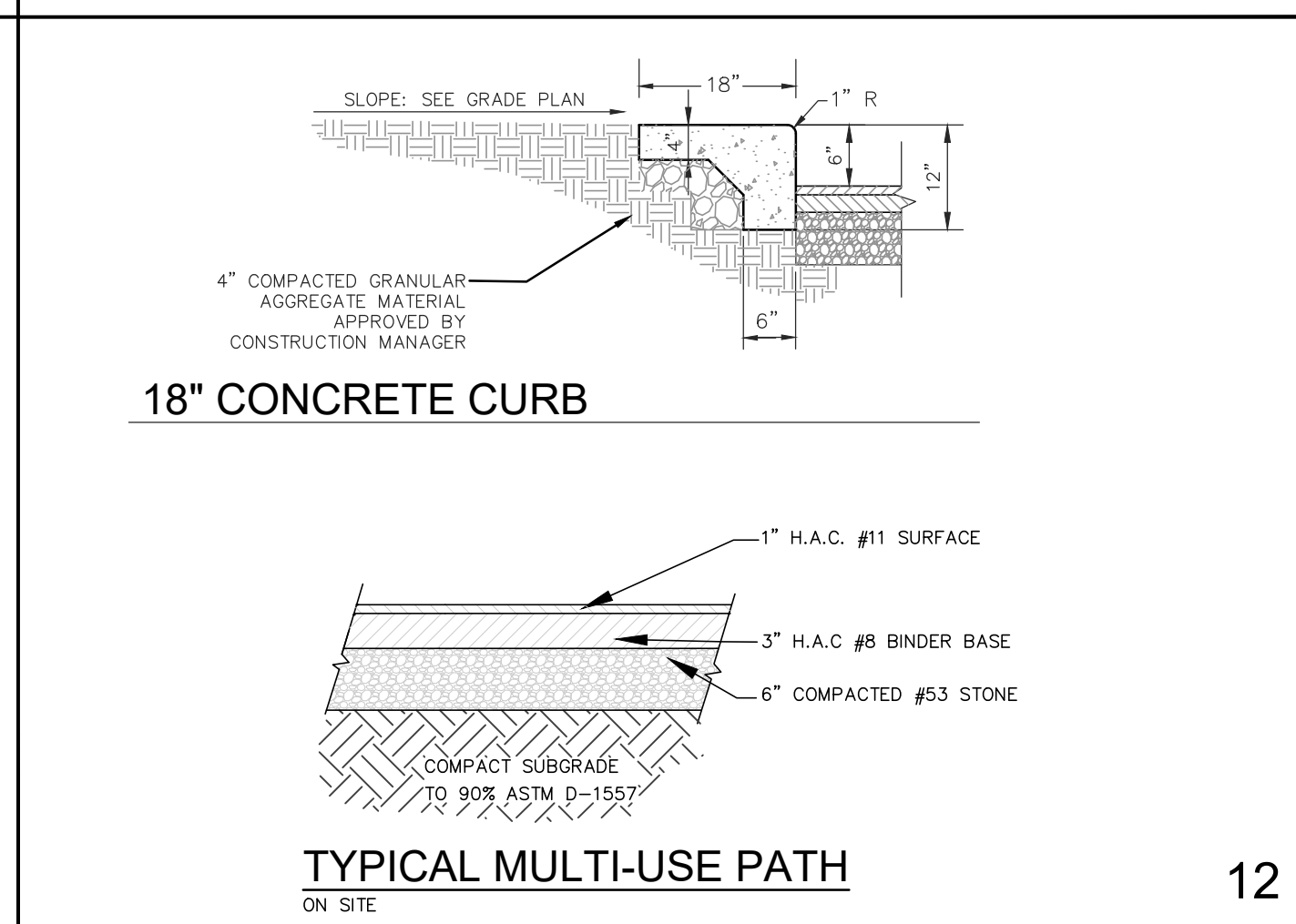
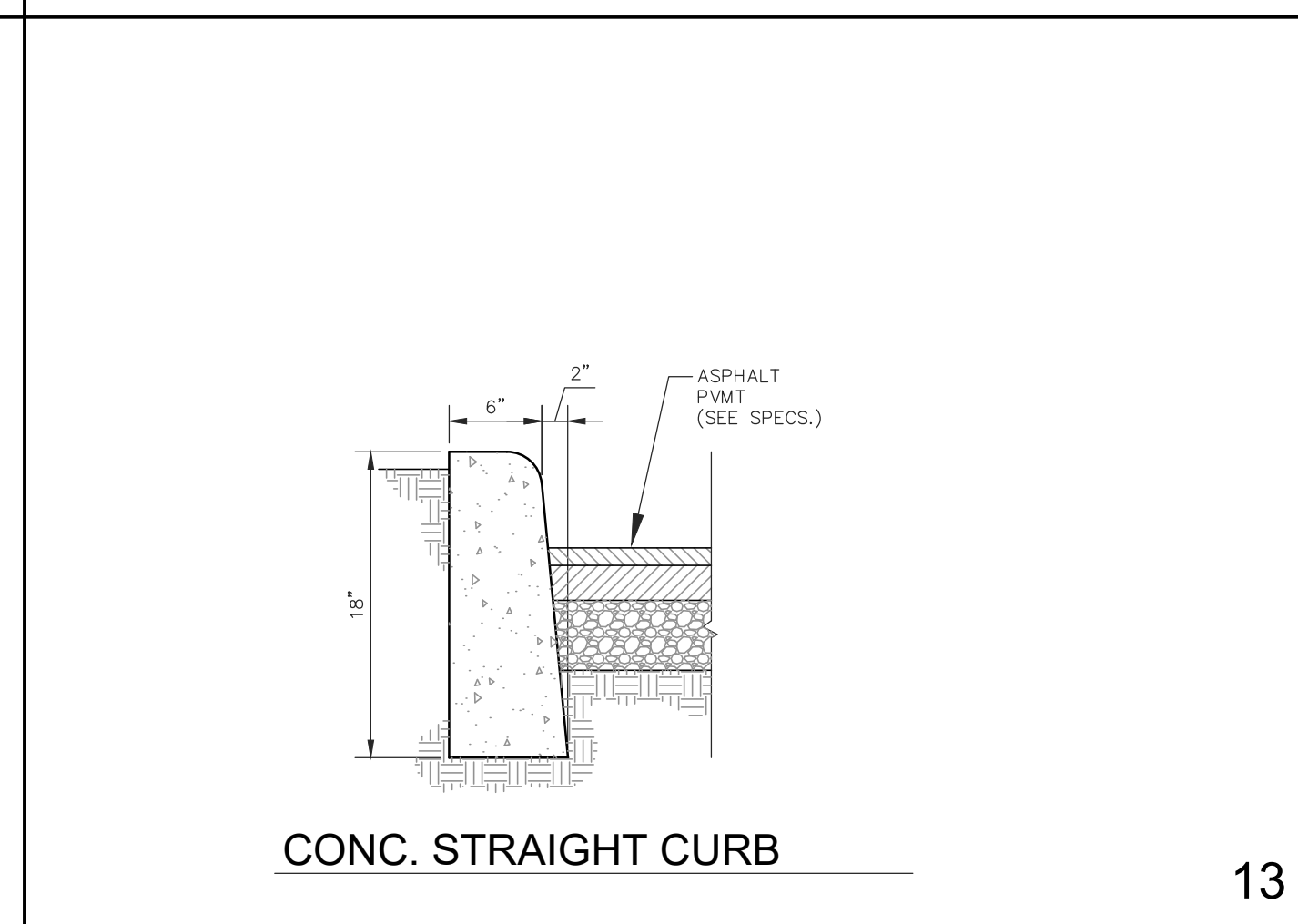
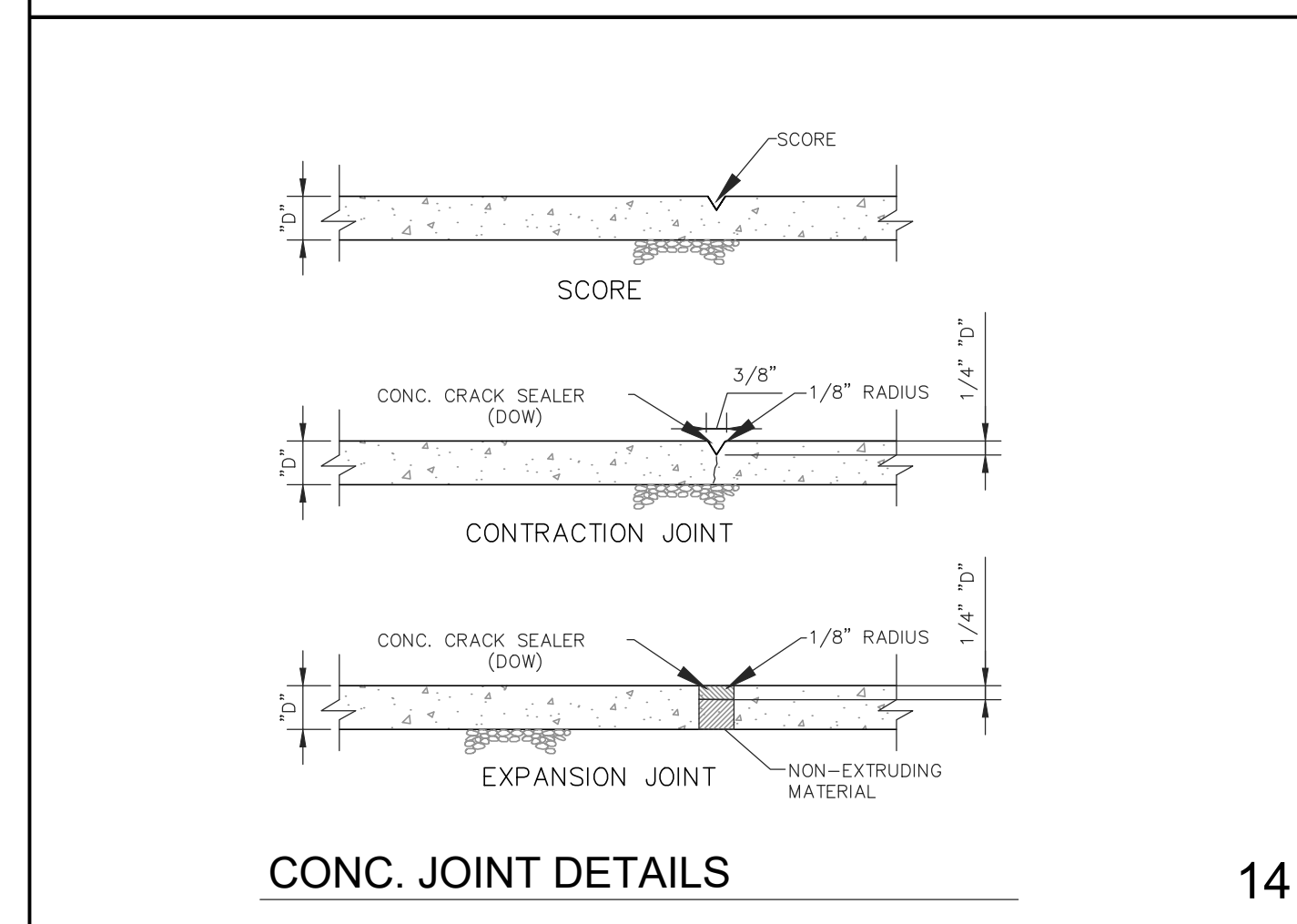
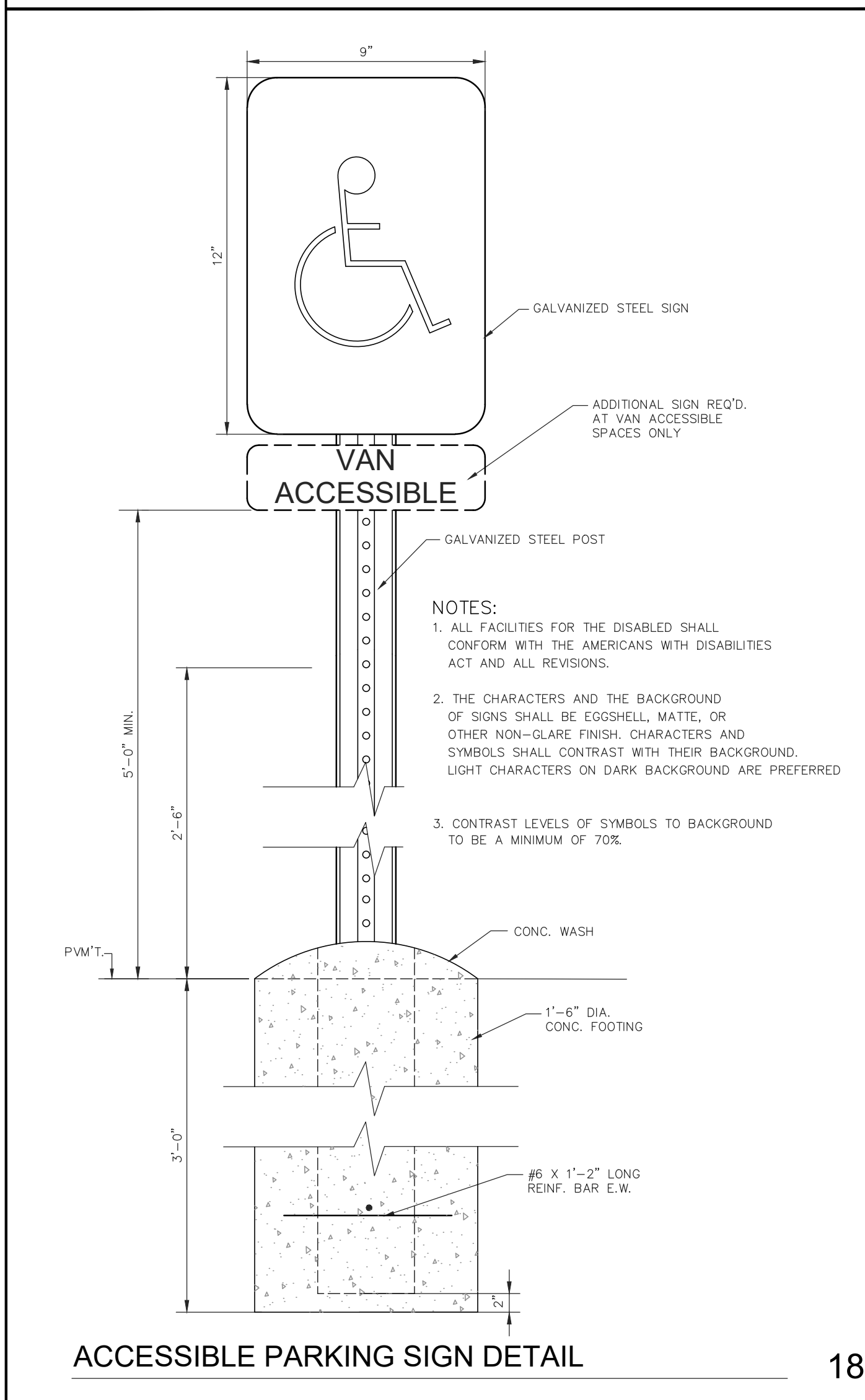
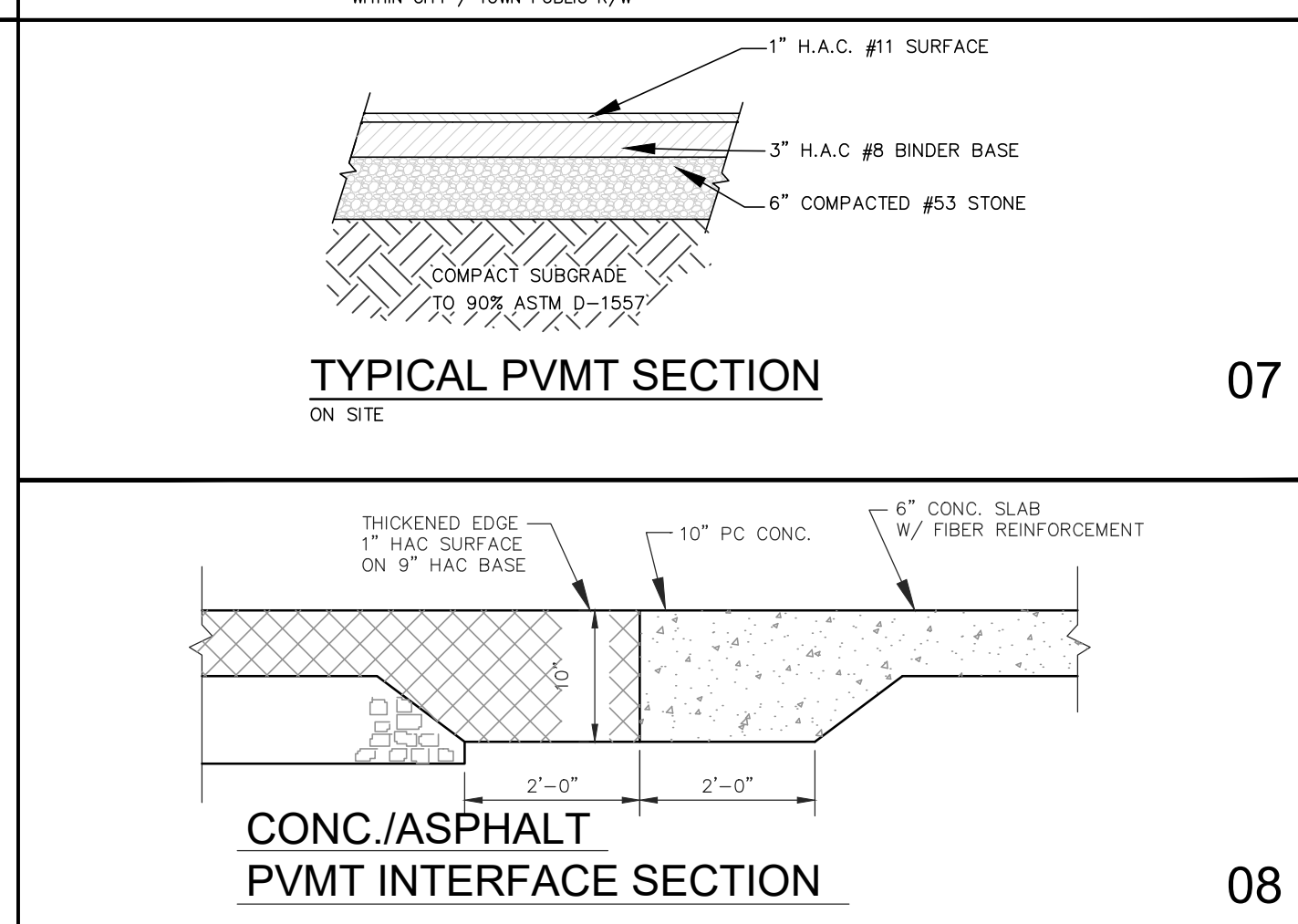
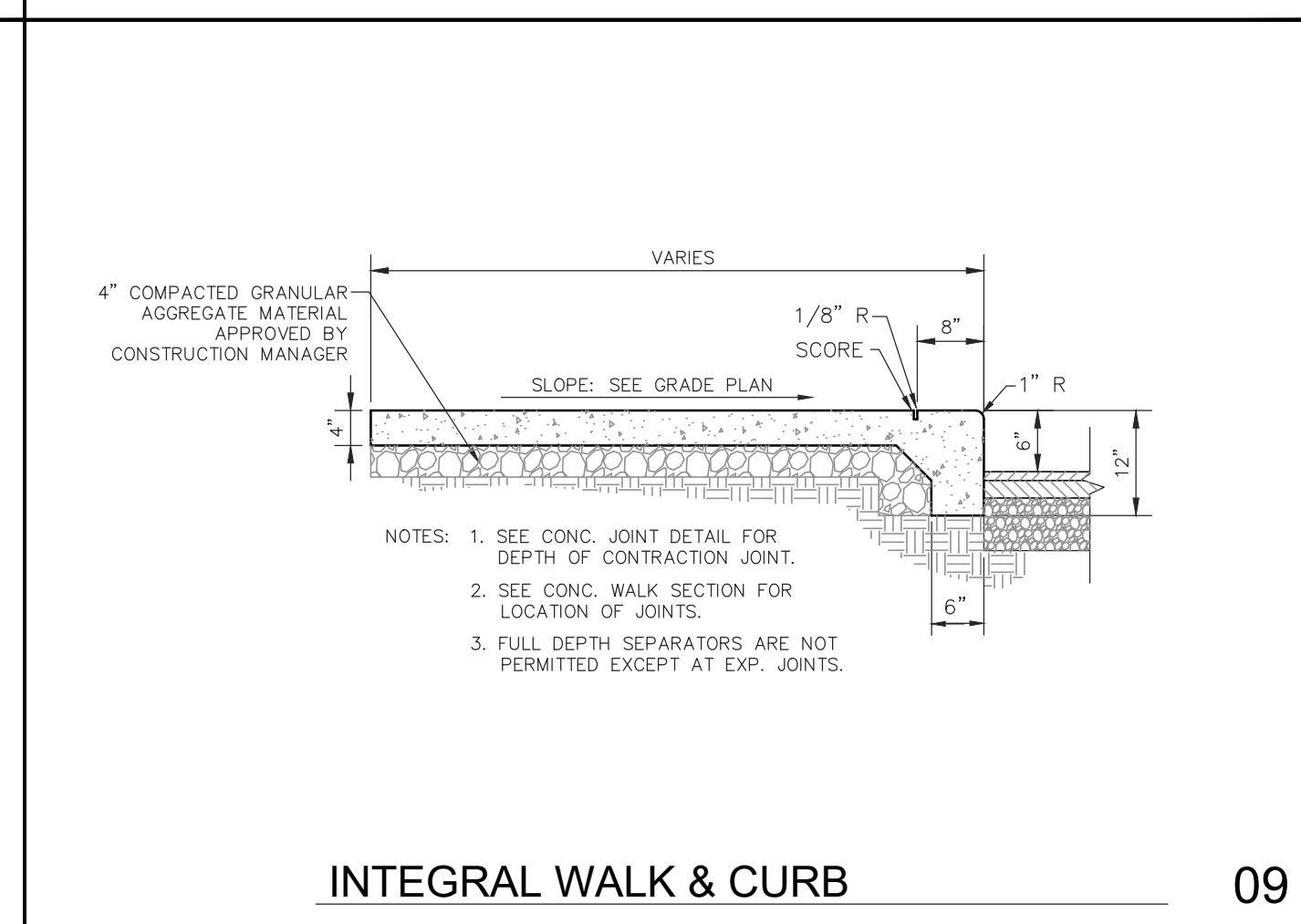
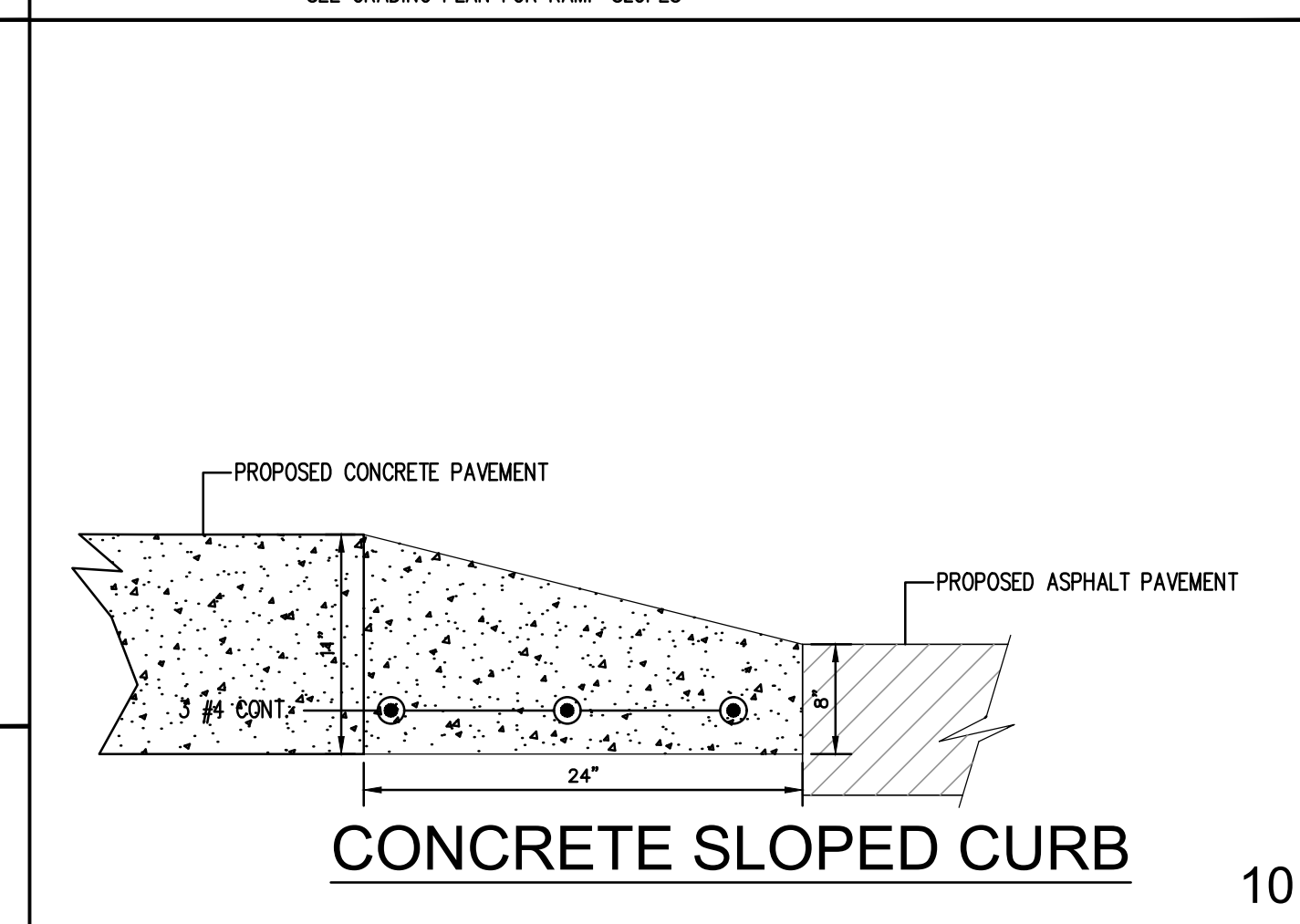
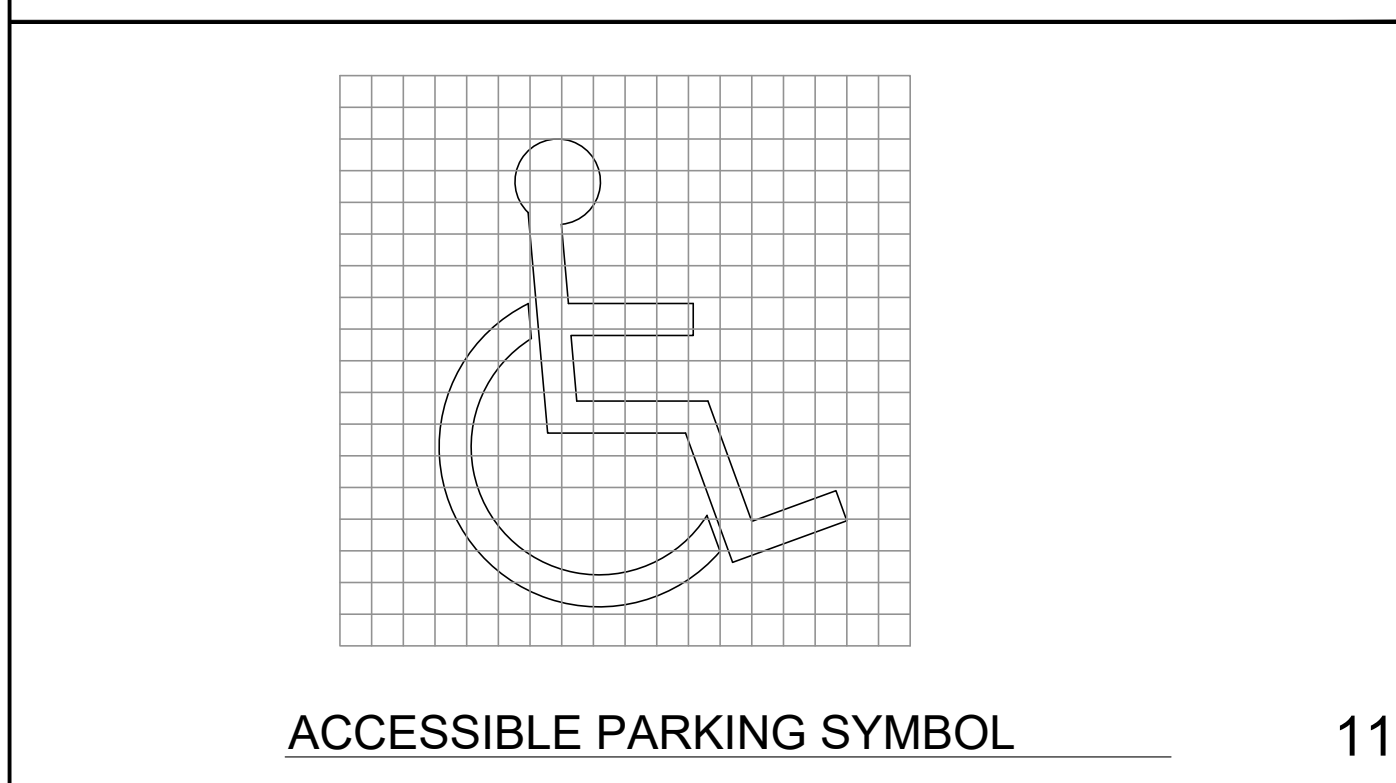
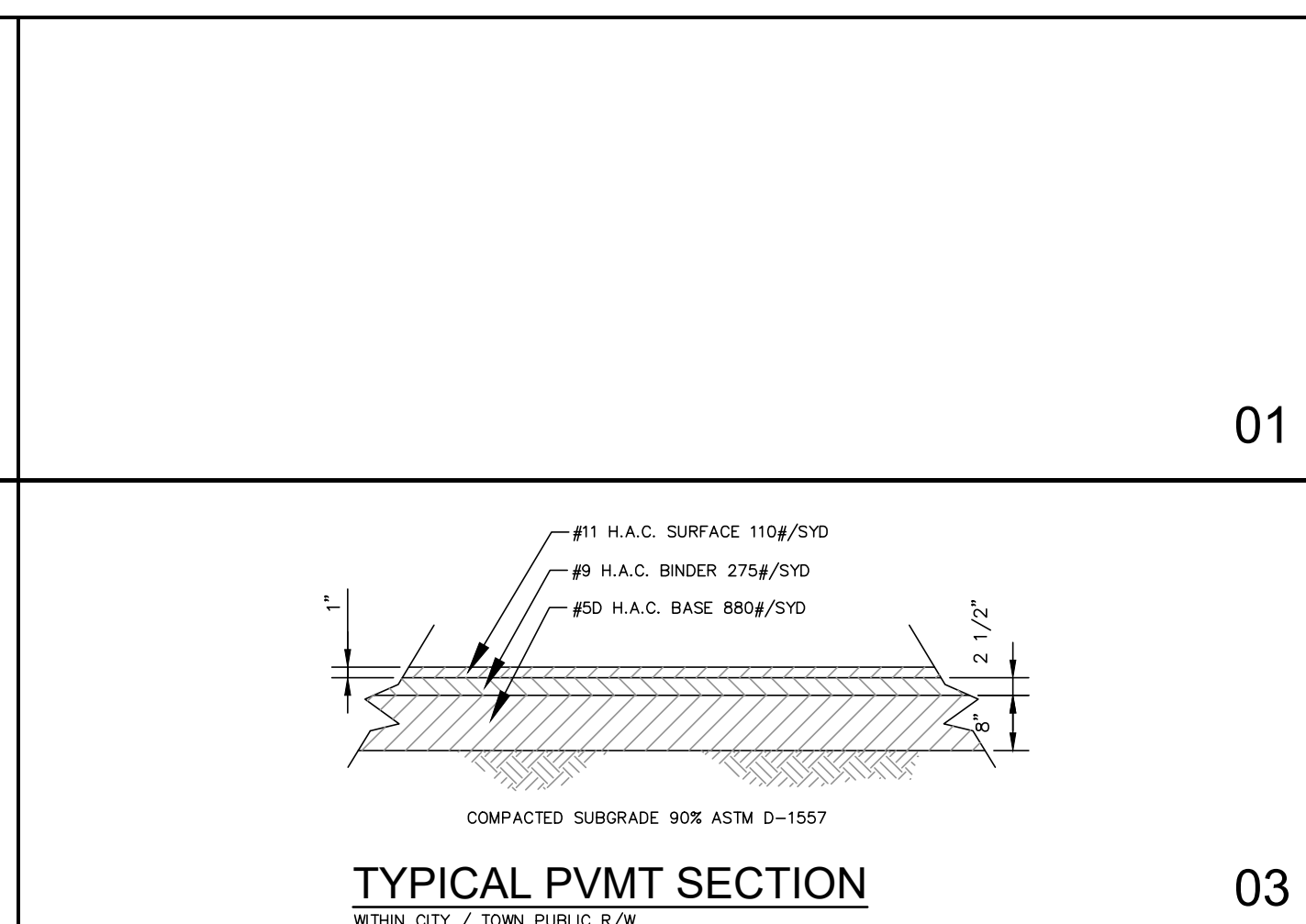
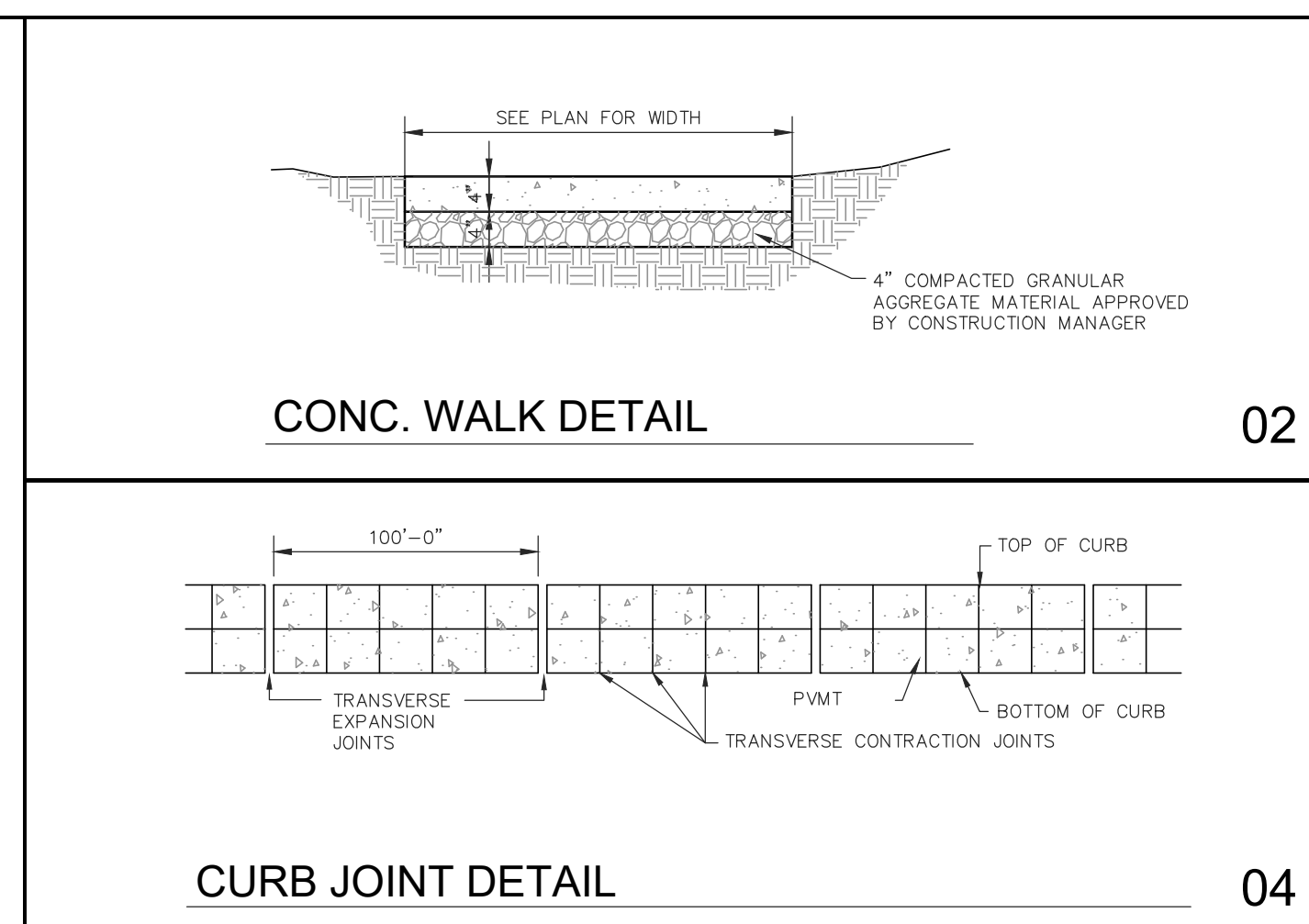
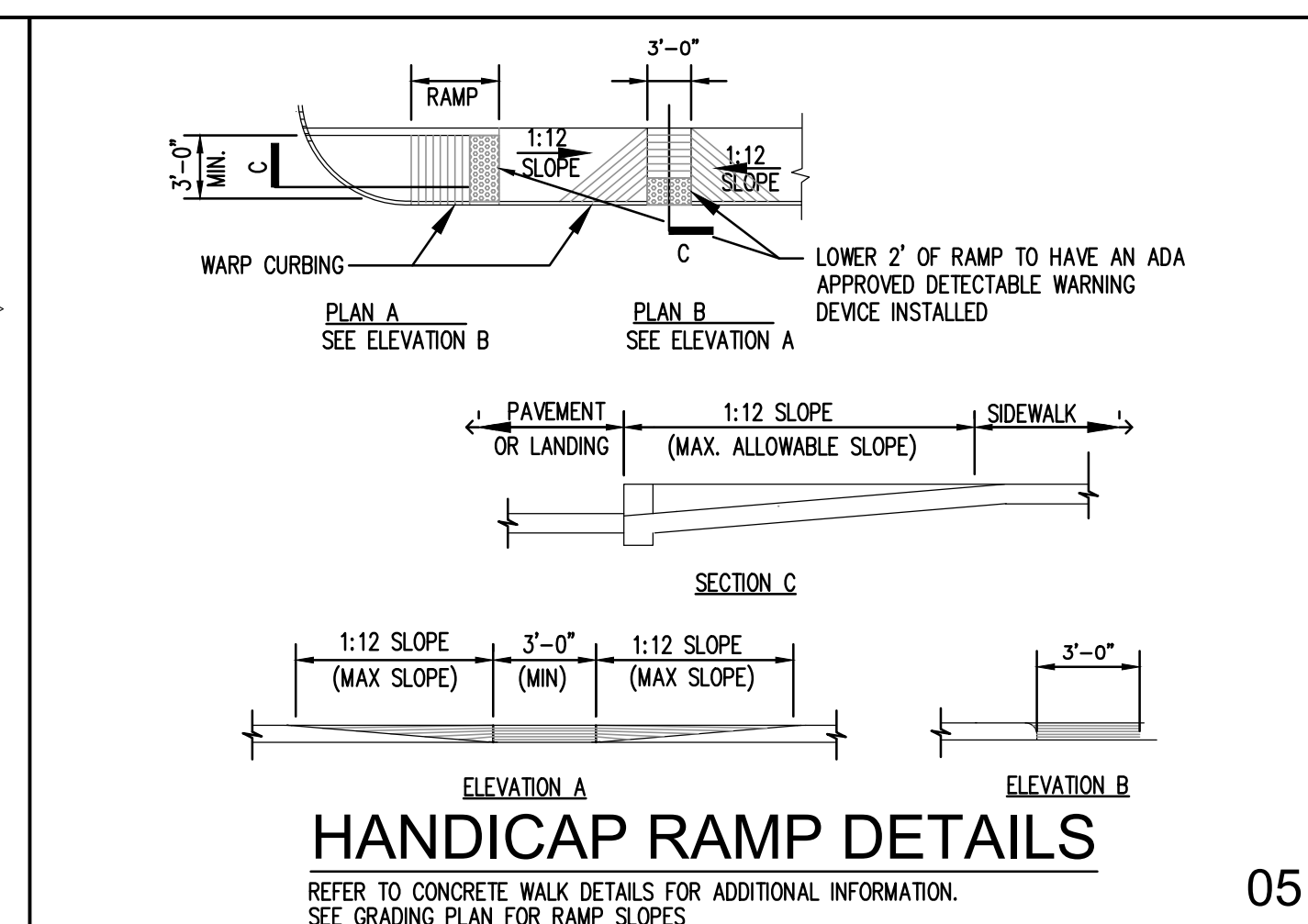
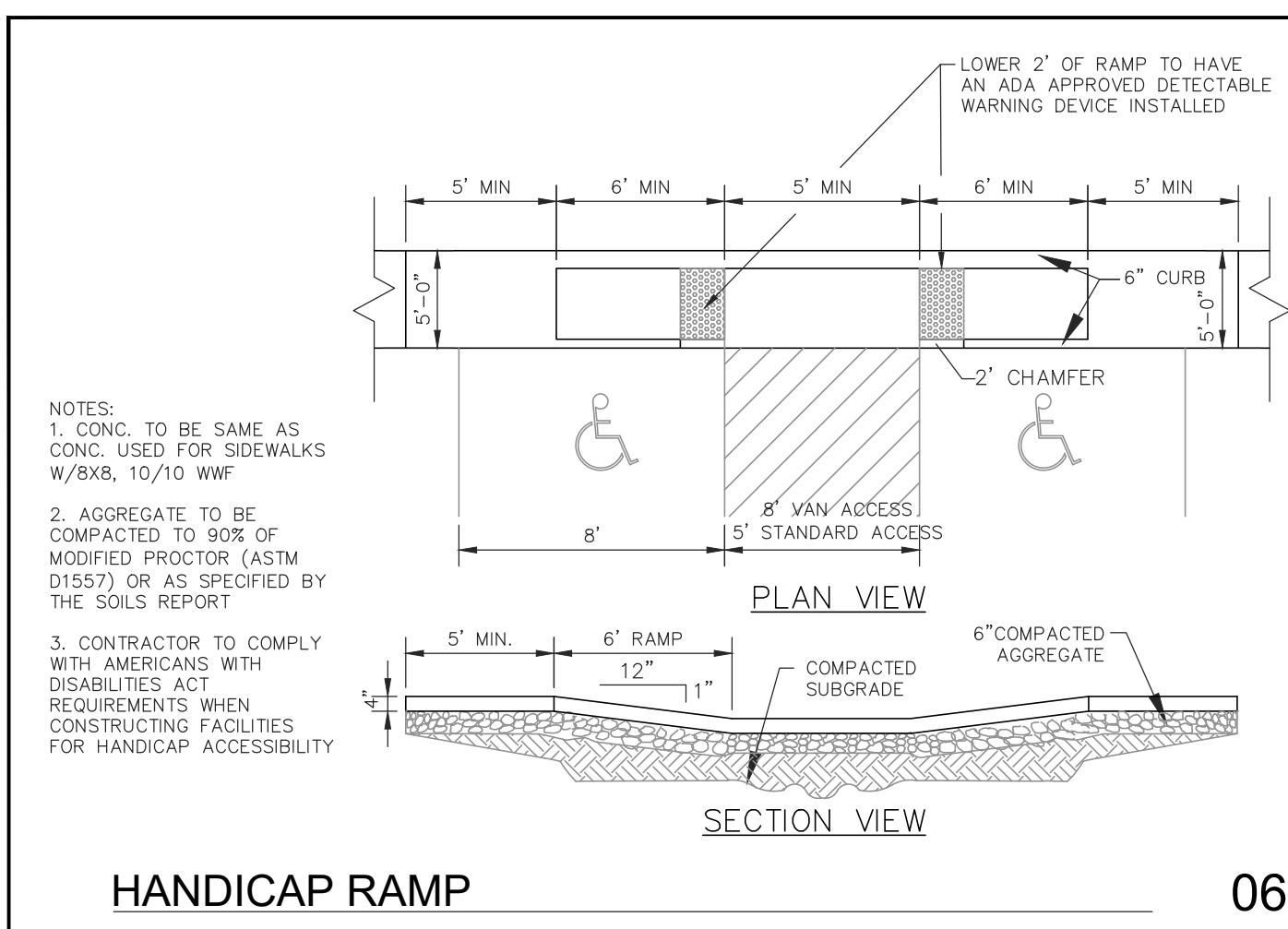
UTILITY DETAILS

CLIENT NAME/DEVELOPER/OWNER:
EMAD AYAD
C/O DONALD HIGHLANDER
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330-653-5320
DON@CONNECTINGSPACES.COM

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DESIGNED: MLD	APPROVED: MLD
DRAWN: BAW	CHECKED BY: MLD
SCALE: NTS	DATE: 03-01-24
PROJECT NO.: 2023-0004	

C801

[illegible]

SAMUEL'S AUTO SALES
TAC REVIEW

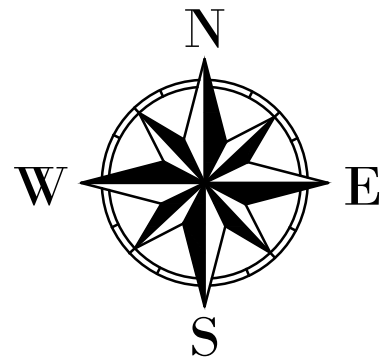
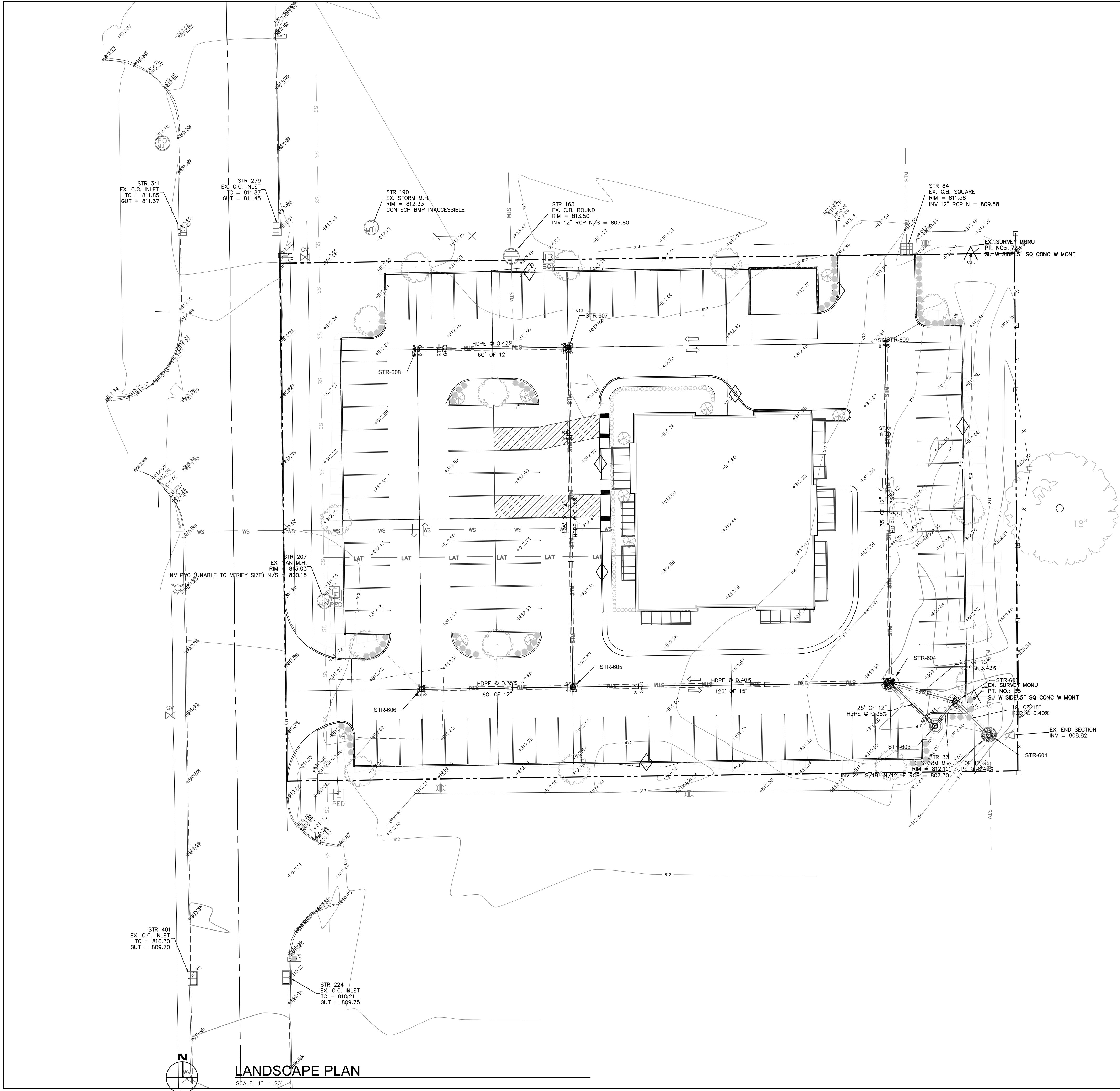
4033 TRADE CENTER DR., FISHERS, INDIANA

CLIENT NAME/DEVELOPER/OWNER:
EMAD AYAD
C/O DONALD HIGHLANDER
8300 PENDELTON PIKE
INDIANAPOLIS, IN 46226
330-653-5320
DON@CONNECTINGSPACES.COM

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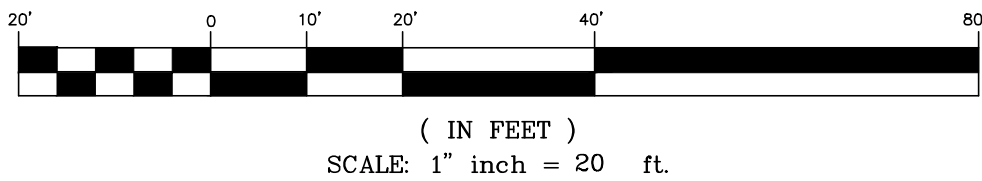
DRAWN: MLD	APPROVED: MLD
CHECKED BY: MLD	
SCALE: NTS	DATE: 03-01-24
PROJECT NO.: 2023-0004	

C802



LANDSCAPE LEGEND

- NEW SHADE TREE; SEE LS101 FOR TYPE / COUNT
- NEW ORNAMENTAL TREE; SEE LS101 FOR TYPE / COUNT
- NEW CONIFEROUS TREE; SEE LS101 FOR TYPE / COUNT
- NEW LARGE SHRUB; SEE LS101 FOR TYPE / COUNT
- NEW SMALL SHRUB; SEE LS101 FOR TYPE / COUNT
- NEW PLANT SYMBOL; SEE SHEET LS102
- NEW PLANT COUNT NUMBER



LANDSCAPE NOTES

1. ALL PLANT MATERIAL IS TO BE PROVIDED WITH A ONE-YEAR REPLACEMENT GUARANTEE AND SHALL BE REPLACED IF DEAD, DYING, OR OTHERWISE UNACCEPTABLE TO THE LANDSCAPE ARCHITECT.
 2. SCHEDULE A PRE-CONSTRUCTION CONFERENCE PRIOR TO SOURCING OF PLANT MATERIAL AND ANY WORK ON-SITE.
 3. NOTIFY THE LANDSCAPE ARCHITECT IF SITE CONDITIONS ARE UNSUITABLE OR OTHER UNFORESEEN CONDITIONS ARE FOUND.
 4. ALL PLANT MATERIAL SHALL BE IN CONFORMANCE WITH THE "AMERICAN STANDARD FOR NURSERY STOCK" ANSI Z60.1, LATEST EDITION.
 5. SUBSTITUTIONS FOR THE SPECIFIED LANDSCAPE MATERIAL CAN BE PROPOSED BY THE CONTRACTOR AND CHANGES CAN BE MADE UPON APPROVAL IN WRITING BY THE LANDSCAPE ARCHITECT.
 6. THOROUGHLY WATER ALL PLANT MATERIAL WITHIN SIX (6) HOURS OF INSTALLATION.
 7. THE SITE IS TO BE LEFT IN A CLEAN AND NEAT CONDITION AT ALL TIMES.
 8. IT IS THE CONTRACTOR'S RESPONSIBILITY TO LOCATE AND IDENTIFY EXISTING UNDERGROUND AND OVERHEAD SERVICES AND UTILITIES WITHIN THE CONTRACT WORK AREAS. PROVIDE ADEQUATE MEANS OF PROTECTION OF UTILITIES AND SERVICES DESIGNATED TO REMAIN. REPAIR UTILITIES DAMAGED DURING WORK OPERATIONS AT CONTRACTOR'S EXPENSE.
 9. IN CASE OF DISCREPANCY BETWEEN NUMBER OF PLANTS SHOWN ON PLAN AND SCHEDULE, PLAN SHALL SUPERCEDE.
- MISCELLANEOUS PLANTING MATERIALS:
1. MULCH: FINELY SHREDDED HARDWOOD BARK, AGED. THREE (3) INCH DEPTH FOR ALL PLANTING BEDS AND TREE SAUCERS.
 2. BACKFILL MIX: ROTOTILL THREE (3) CUBIC YARDS PEAT MOSS PER 100 SF AREA FOR ALL PLANTING BEDS. FURTHER AMEND BACKFILL MIX FOR TREE PLANTING WITH 1 CUP EACH AGRICULTURAL SULFUR AND HYDRATED IRON.
 3. SEED ALL DISTURBED AREAS UNLESS OTHERWISE NOTED.
 4. ALL LANDSCAPE BEDS SHALL BE SPADE EDGED TO A DEPTH OF 6".
 5. WHEEL STOPS SHALL BE PLACED THREE FEET FROM THE CONTINUOUS CURB; IN EACH SPACE THAT ABUTS A TREE'S LOCATION IN THE PLANTING AREA.

SAMUEL'S AUTO SALES
TAC REVIEW
14033 TRADE CENTER DR, FISHERS, INDIANA

LANDSCAPE PLAN

CLIENT NAME/DEVELOPER/OWNER:
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C/O DONALD HIGHLANDER
8306 PENDLETON PIKE
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DON@CONNECTINGSPACES.COM
©2024 (DLDS) DeBoy Land Development Services, Inc.
DESIGNED:MLD APPROVED:MLD
DRAWN:BAW CHECKED BY:MLD
SCALE: 1" = 20' DATE:10/02/20
PROJECT NO.: 2023-0004

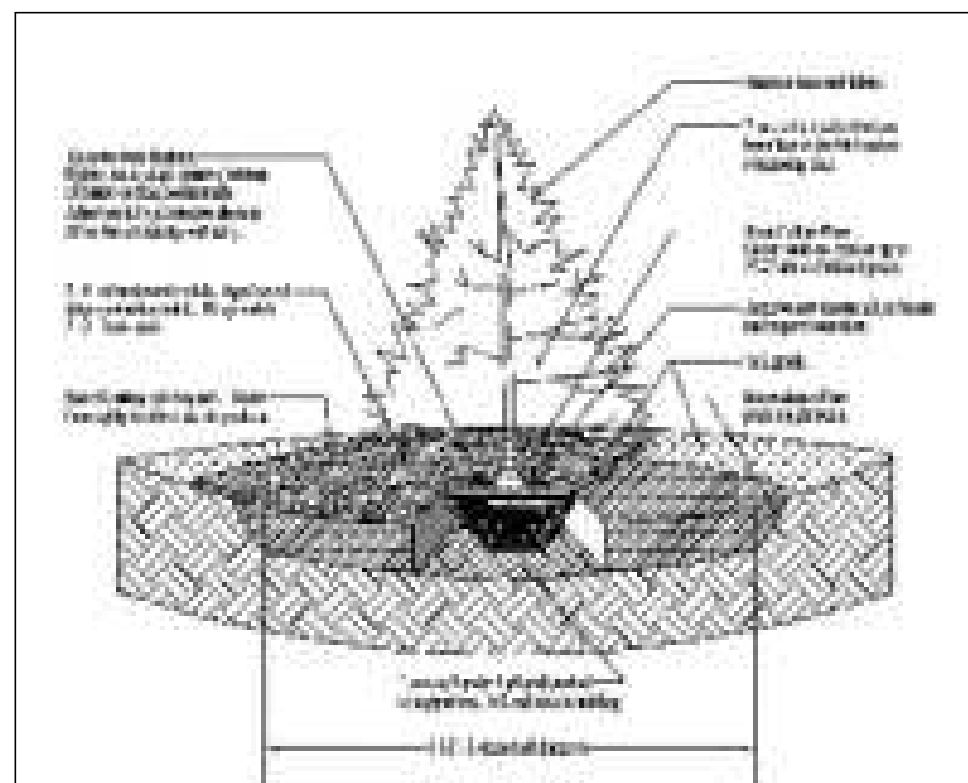
LS100

REQUIRED PLANTINGS

PLANT SCHEDULE

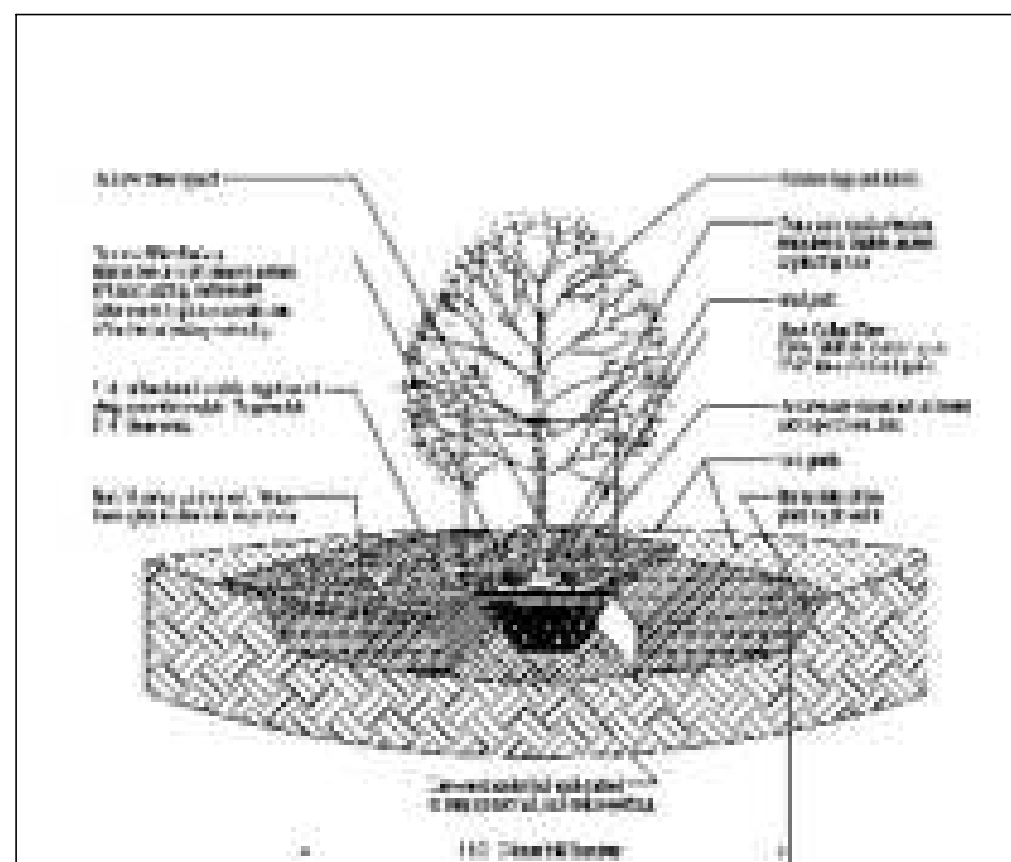
PLANT SCHEDULE					
QTY	SYMBOL	BOTANICAL NAME	COMMON NAME	SIZE*	NOTES
4	AR	ACER R. RED SUNSET	RED SUNSET MAPLE	2 1/2" CAL.	BB, FULL HEAD, STRONG CENTRAL LEADER
4	AS	ACER SACCHARUM	SUGAR MAPLE	2 1/2" CAL.	BB, FULL HEAD, STRONG CENTRAL LEADER
6	GB	GINKO BILOBA 'AUTUMN GOLD'	AUTUMN GOLD GINKGO	2 1/2" CAL.	BB, FULL HEAD, STRONG CENTRAL LEADER
6	NS	NYSSA SYLVATICA	BLACK TUPELO OR BALCK GUM	2 1/2" CAL.	BB, FULL HEAD, STRONG CENTRAL LEADER
10	BN	BETULA NIGRA	CLUMP RIVER BIRCH	12-14' CLUMP	BB, FULL HEAD, LOW BRANCHED, 3 STEM CLUMP MIN., 2" MIN. CAL. OF INDIV. TRUNKS
36	EAC	EUONYMUS ALATUS COMPACTA	COMPACT BURNING BUSH	30"	BB OR CONT., FULL, PLANT @ 4'+-0.C.
13	TOS	THUJA OCCIDENTALIS 'SMARAGOL'	THUJA EMERALD GREEN	18"	BB OR CONT., FULL, PLANT @ 4'± 0.C.
26	HS	HEMEROCALLIS STELLA D' ORO	STELLA D' ORO DAYLILLIES	1 GAL.	CONT., MULTIPLE PLANTS (2 MIN.), FULL, PLANT @15" 0.C.
10	IV	ITEA V. HENRYS GARNET	HENRYS GARNETT SWEETSPIRE	24"	BB OR CONT., FULL, PLANT @ 3'0.C.
47	BGV	BUXUS GREEN VELVET	GREEN VELVET BOXWOOD	18"	BB OR CONT., FULL, PLANT @ 3'± 0.C.
10	MRJ	MALUS 'JEWELCOLE'	RED JEWEL CRABAPPLE	2" CAL.	BB, FULL HEAD, STRONG CENTRAL LEADER
7	PAC	PICEA ABIES 'CUPRESSINA'	COLUMNAR NORWAY SPRUCE	8-10'	BB, FULL TO GROUND, SHEARED, 8" MAX. BETWEEN GROWTH WHORLS
74	SAW	SPIRAEA B. "ANTHONY WATERER"	ANTHONY WATERER SPIREA	18"	CONT. OR BB, FULL, MULTI CANES, PLANT @ 3'+- 0.C.
64	TMD	TAXUS M. DENSIFORMIS	SPREADING YEW	18"-24"	BB OR CONT., SHEARED, PLANT @ 3'0.C. MATCH EXISTING
23	VPM	VIBURNUM PLICATUM 'MARIESII'	MARIES DOUBLEFILE VIBURNUM	24"-30"	BB OR CONT., FULL, PLANT @ 3'0.C.
28	VC	VIBURNUM CARLESII	KOREAN SPICE VIBURNUM	18"	BB OR CONT., FULL, PLANT @ 4'± 0.C.
38	VTB	VIBURNUM TRILOBUM 'BAILEY COMPACT'	BAILEY COMPACT VIBURNUM	24"	BB OR CONT., FULL, PLANT @ 4'± 0.C.
22	EA0	EUONYMUS ALATUS 'ODOM'	LITTLE MOSES BURNINGBUSH	24"	BB OR CONT., FULL, PLANT @ 4'± 0.C.

SIZE* = DENOTES MINIMUM SIZE OF SPECIES AT TIME OF PLANTING.



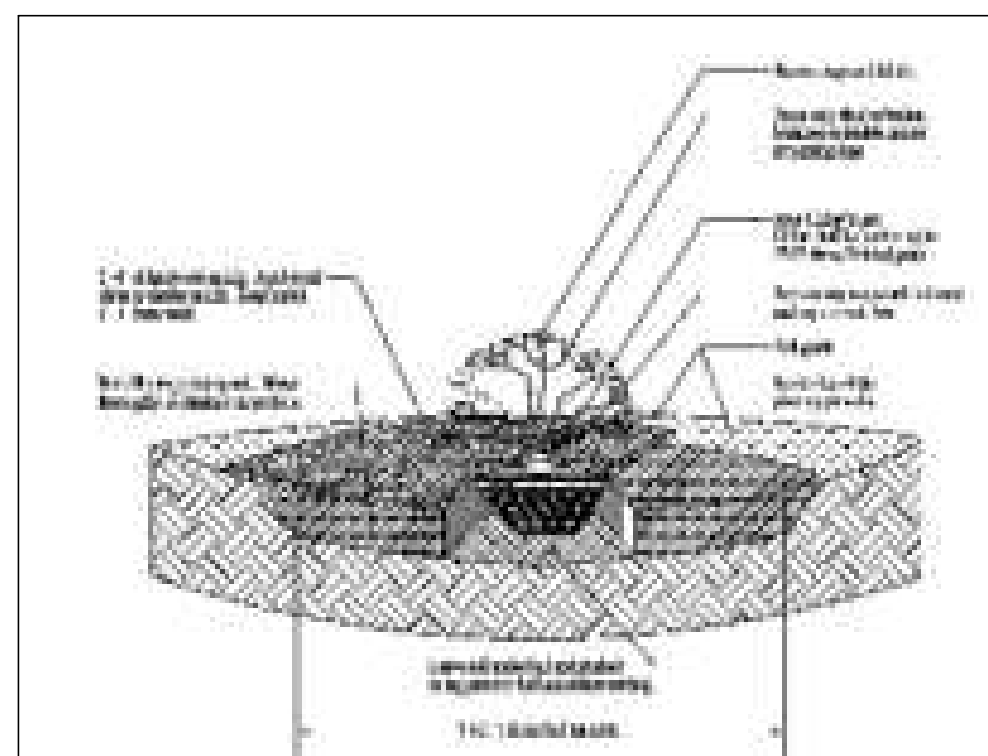
EVERGREEN PLANTING DETAIL

NTS



TREE PLANTING DETAIL

NTS



SHRUB PLANTING DETAIL

NTS

MULCH TO BE BROWN IN COLOR

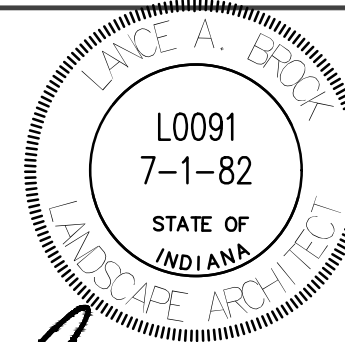
LANDSCAPE DETAILS

SCALE: #####



PREPARED BY:

STAMPED BY:



STAMP
DATE DESCRIPTION
Lance A. Brock

SAMUEL'S AUTO SALES TAC REVIEW

14033 TRADE CENTER DR, FISHERS, INDIANA

LANDSCAPE DETAILS

CLIENT NAME/DEVELOPER/OWNER:
EMAD AYAD
C/O DONALD HIGHLANDER
8306 PENDLETON PIKE
INDIANAPOLIS, IN 46226
330-653-5320
DON@CONNECTINGSPACES.COM

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DESIGNED: MLD	APPROVED: MLD
---------------	---------------

DRAWN: BAW	CHECKED BY: MLD
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SCALE: #####	DATE: 10/02/20
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PROJECT NO.: 2023-0004

LS101

PROJECT: F:\Cityway Design Aides\Projects\DLDS\2023\2023-0004 - 14033 Trader Center - Fisher - Emod Ayad\ENGINEERING\DRAWINGS\SHEET
DWG: LS100 LANDSCAPE.dwg
PLOTTED BY: B WHITE
DATE: Thursday, February 29, 2024 8:46:32 PM

CITY STANDARDS APPLY TO
PUBLIC PROPERTY & PRIVATE
PROPERTY



STANDARD CONSTRUCTION DETAILS

AMENDED JANUARY 2022

DIRECTIONS FOR USE

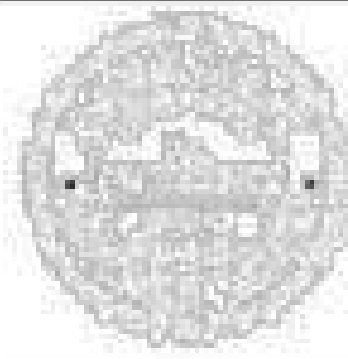
- 1) Applicable sheets from the City Standards shall be attached to the construction drawings and shall be considered part thereof. Individual City Standards that do not apply may be crossed out by design engineer by placing a single large X over the detail. Minor reference notations may be placed adjacent to individual standard titles for coordination. However, the standards themselves shall not be modified in any way.
- 2) Details prepared by outside sources shall not be included in the construction drawings when said details are covered by City Standards.
- 3) Details prepared by outside sources covering work which is not covered by City Standards are the sole responsibility of the design engineer and shall be placed on sheets other than the City Standard sheets.
- 4) Failure to properly execute the above directions for use will not affect the applicability nor the enforcement of the City Standards.
- 5) City of Fishers shall be contacted when required by calling the Director of Engineering.
- 6) City Standards shall be used in conjunction with the Transportation Plan and Construction Specifications.
- 7) The use of INDOT refers to Indiana Department of Transportation Standard Drawings and Specifications (Current Version).

NOTES

- 1) A City of Fishers Right-of-Way Activity Permit is required for utilities crossing existing public right-of-way or encroaching into right-of-way pavement.
- 2) Utility work within existing public right-of-way or within 5 feet of existing right-of-way pavement requires removable flowable fill as backfill.

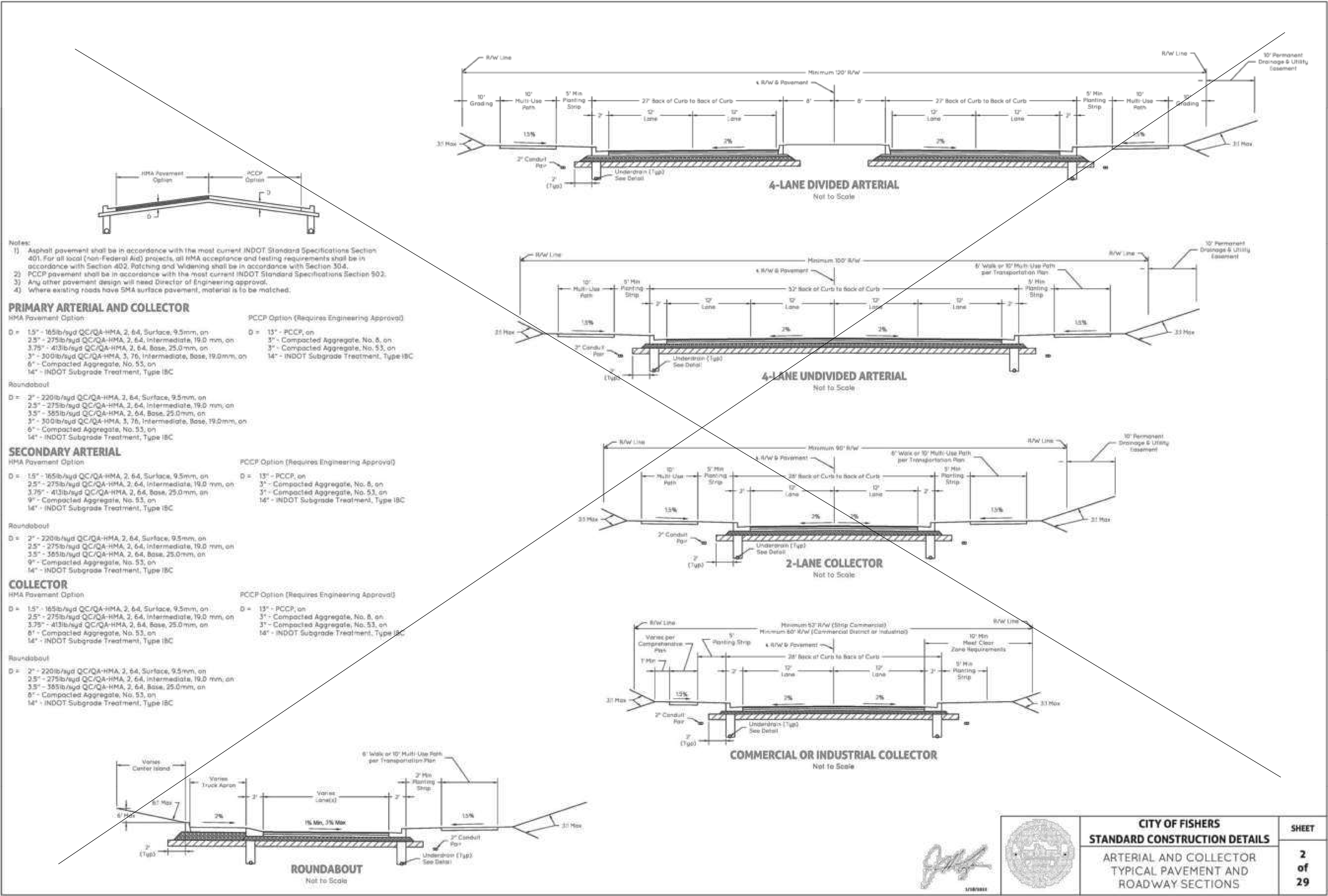
INDEX

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SIDEWALK AND CURB RAMP DETAILS	6
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CITY OF FISHERS STANDARD CONSTRUCTION DETAILS
TITLE SHEET

SHEET
1 of 29





Notes:

- 1) Asphalt pavement shall be in accordance with the most current INDOT Standard Specifications Section 401. For all local (non-Federal Aid) projects, all HMA acceptance and testing requirements shall be in accordance with Section 403. Patching and Widening shall be in accordance with Section 304.
- 2) PCCP pavement shall be in accordance with the most current INDOT Standard Specifications Section 502.
- 3) Any other pavement design will need Director of Engineering approval.

LOCAL STREET

HMA Pavement Option:

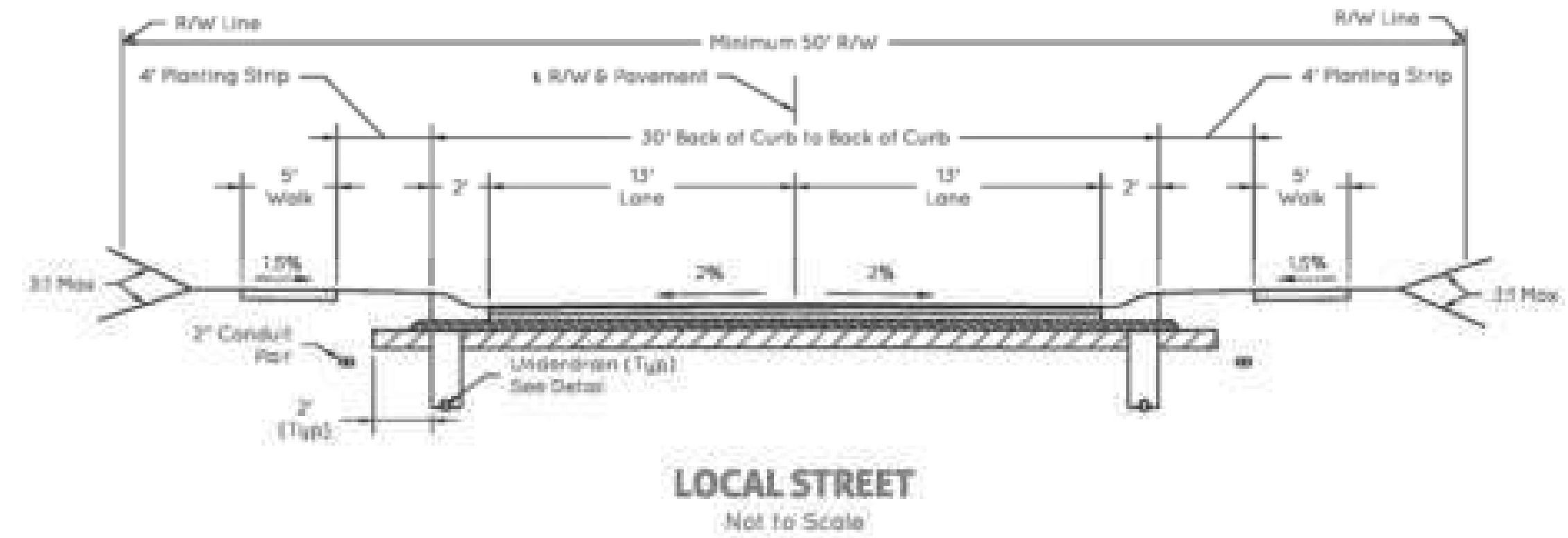
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2.5" - 275lb/yard QC/QA-HMA, 2.64, Intermediate, 19.0 mm, on
5.75" - 413lb/yard QC/QA-HMA, 2.64, Base, 19.0mm, on
6" - Compacted Aggregate, No. 53, on
14" - INDOT Subgrade Treatment, Type IBC

Minor Subdivision:

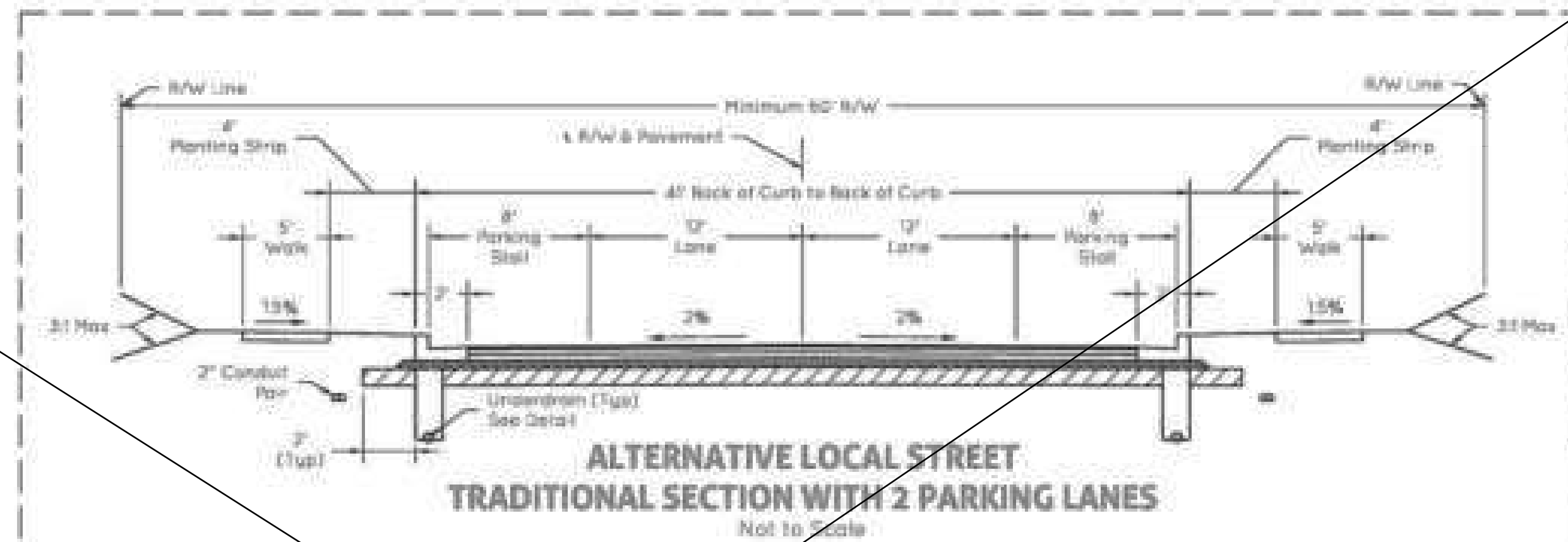
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5.5" - 365lb/yard QC/QA-HMA, 2.64, Intermediate, 19.0 mm, on
12" - Compacted Aggregate, No. 53, on
14" - INDOT Subgrade Treatment, Type IBC

PCCP Option (Requires Engineering Approval):

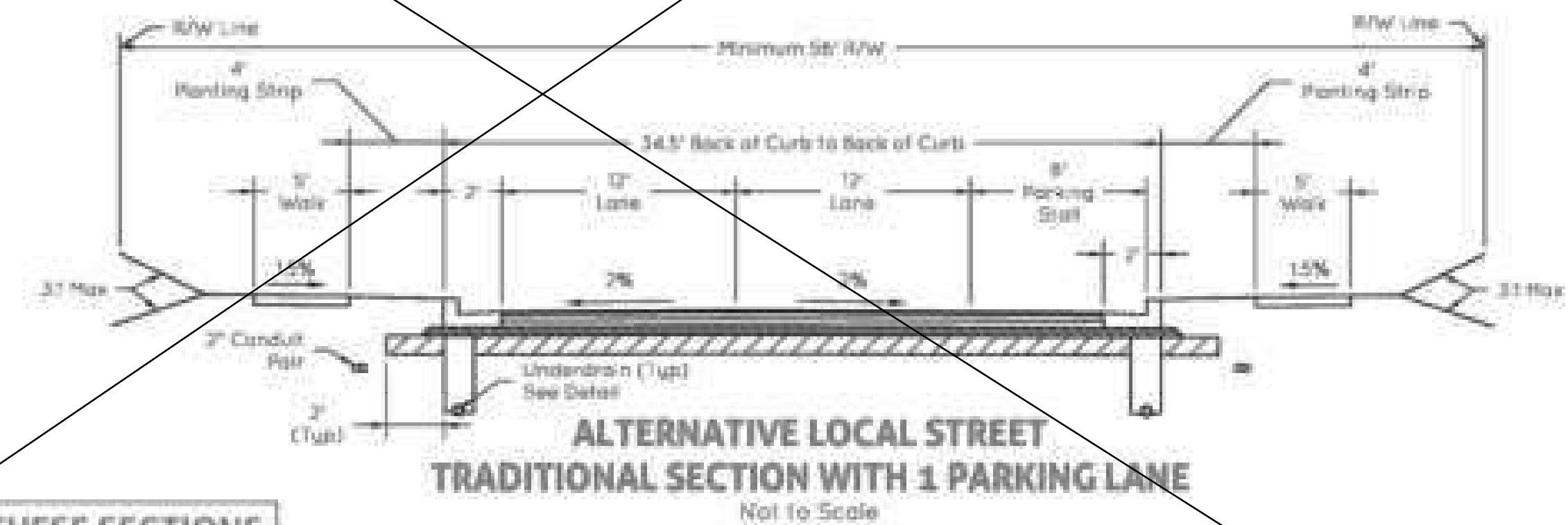
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3" - Compacted Aggregate, No. 8, on
3" - Compacted Aggregate, No. 53, on
14" - INDOT Subgrade Treatment, Type IBC



LOCAL STREET
Not to Scale

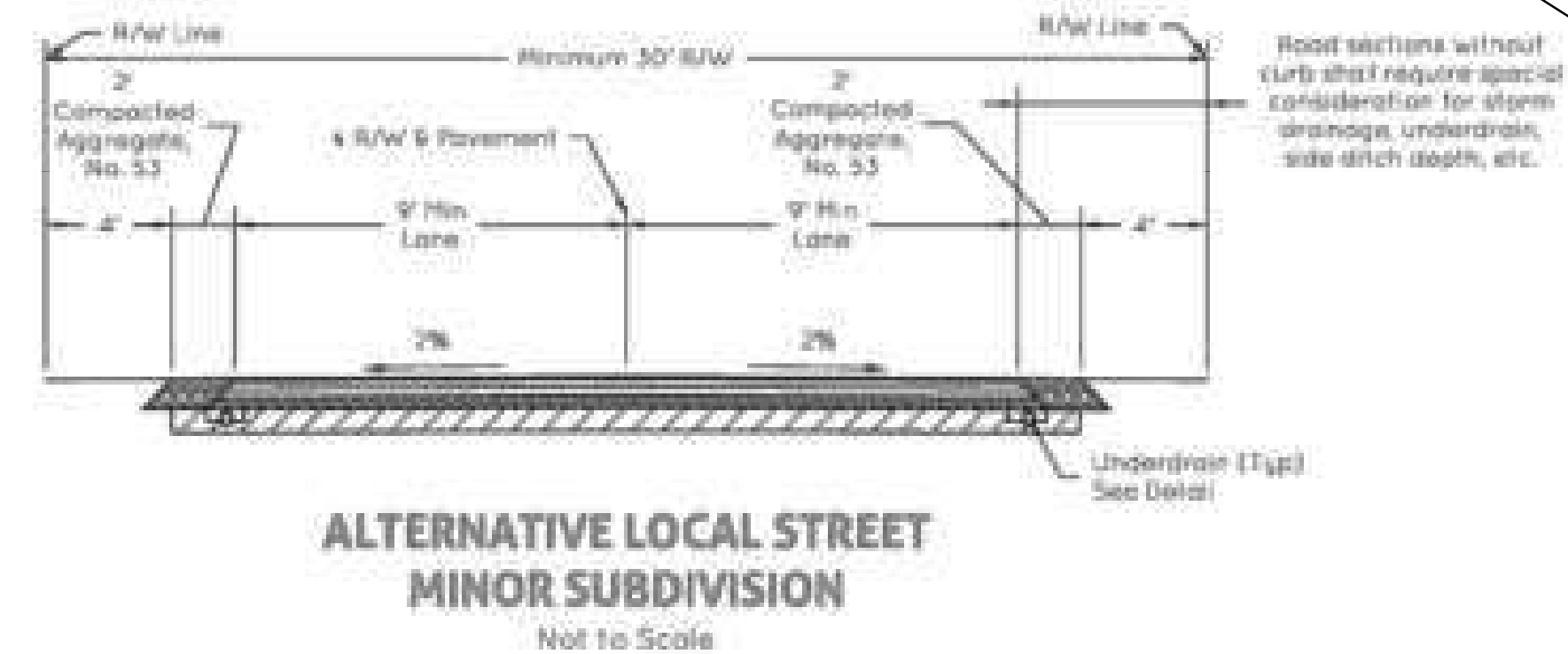


**ALTERNATIVE LOCAL STREET
TRADITIONAL SECTION WITH 2 PARKING LANES**
Not to Scale



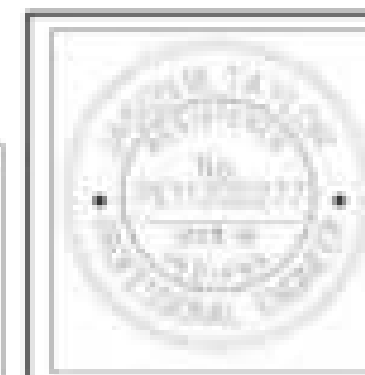
**ALTERNATIVE LOCAL STREET
TRADITIONAL SECTION WITH 1 PARKING LANE**
Not to Scale

**MODIFICATIONS TO THESE SECTIONS
MUST BE APPROVED BY
THE DIRECTOR OF ENGINEERING**

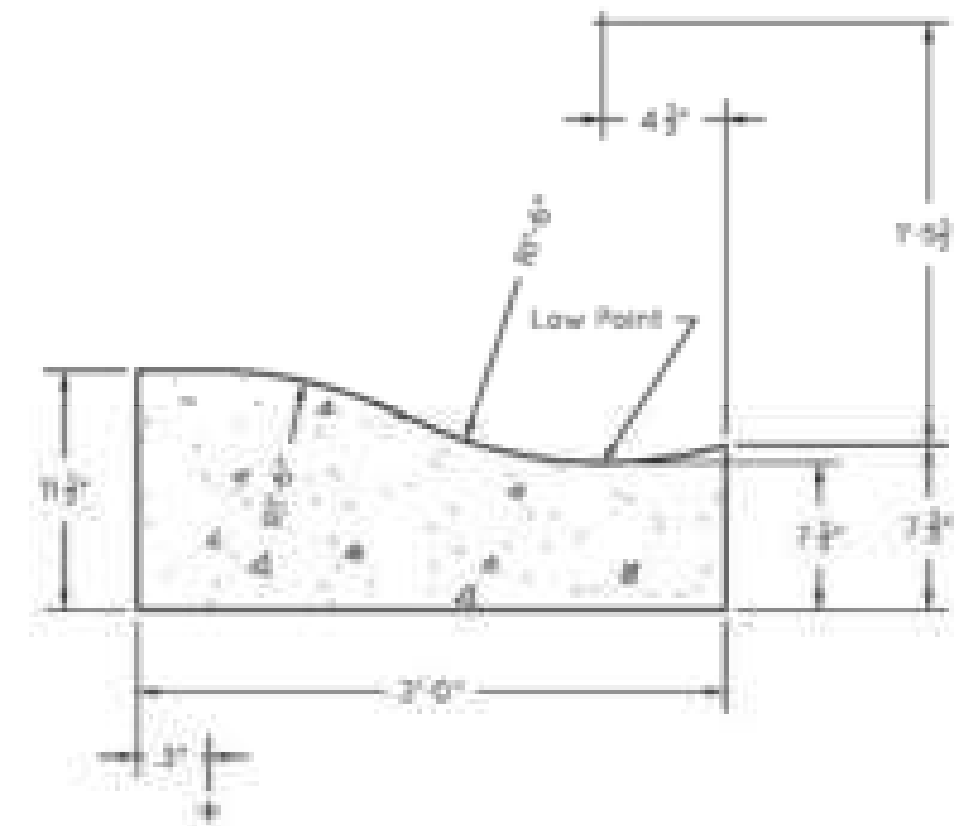


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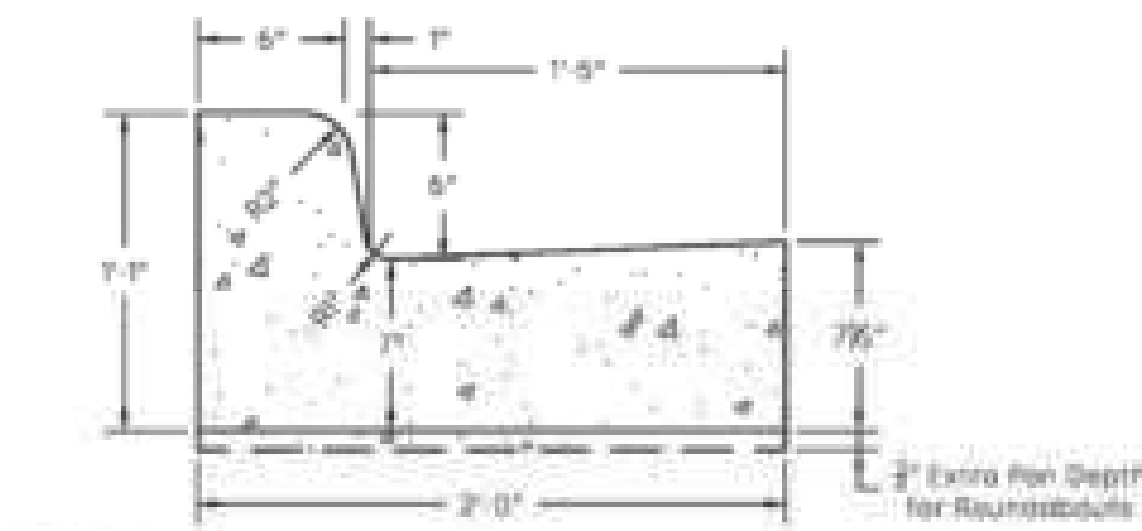
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1/2/2022



CITY OF FISHERS STANDARD CONSTRUCTION DETAILS		SHEET
LOCAL STREET TYPICAL PAVEMENT AND ROADWAY SECTIONS		3 of 29

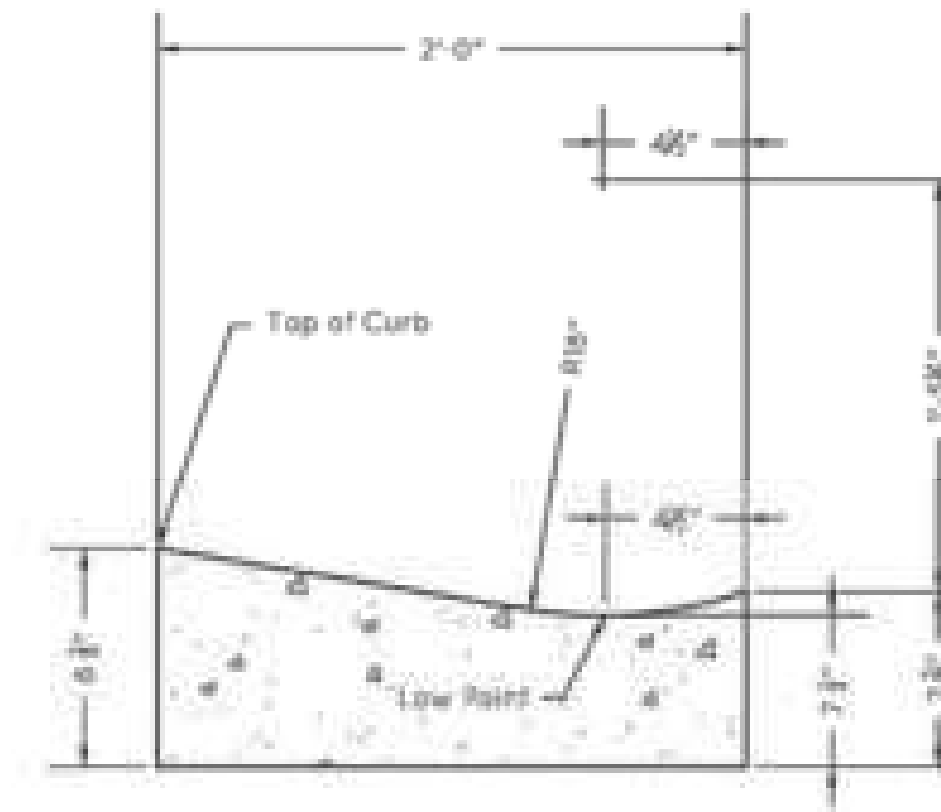


CONCRETE ROLL CURB
Not to Scale

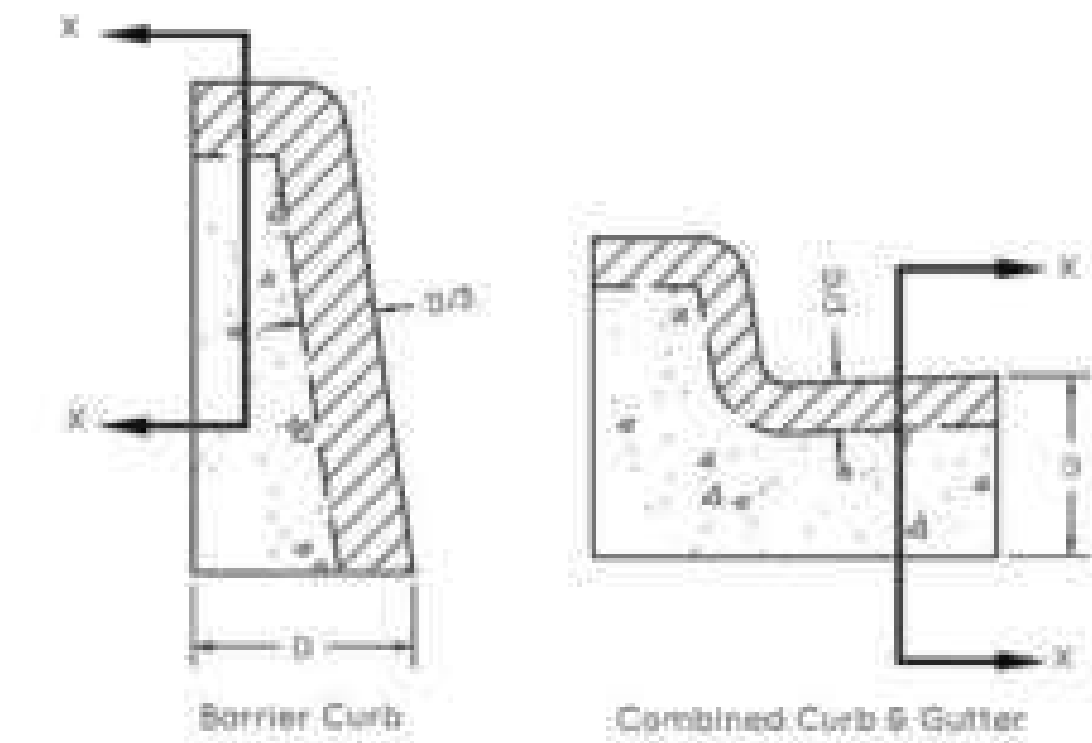


Note:
1) Provide reverse pitch curb & gutter on center islands when curb inlets are not provided for drainage and when natural flow is away from curb.

CONCRETE COMBINED CURB & GUTTER
Not to Scale



CONCRETE VALLEY GUTTER
Not to Scale



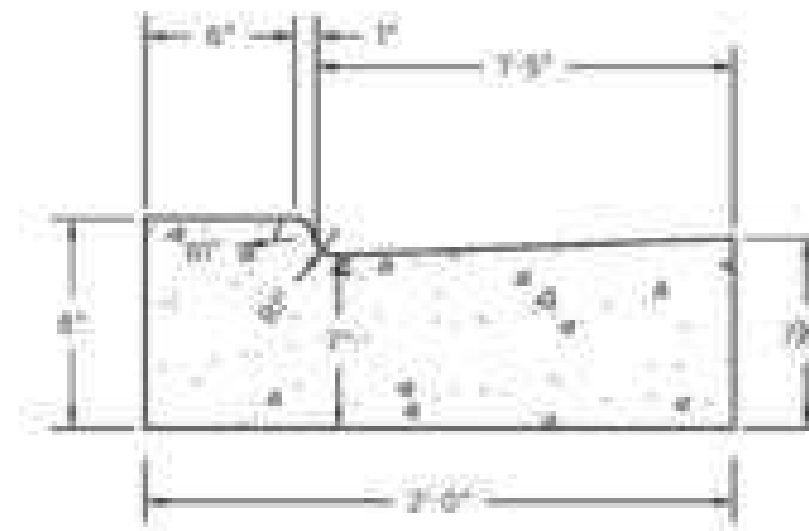
Section X-X

Note:
1) Contraction joints for concrete curbs shall be sawed at 10-ft spacing. Spacing shall be 5-ft on curves.

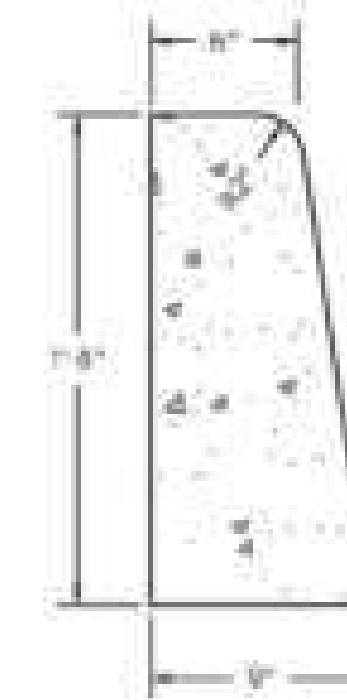
CONTRACTION JOINTS - CONCRETE CURB
Not to Scale



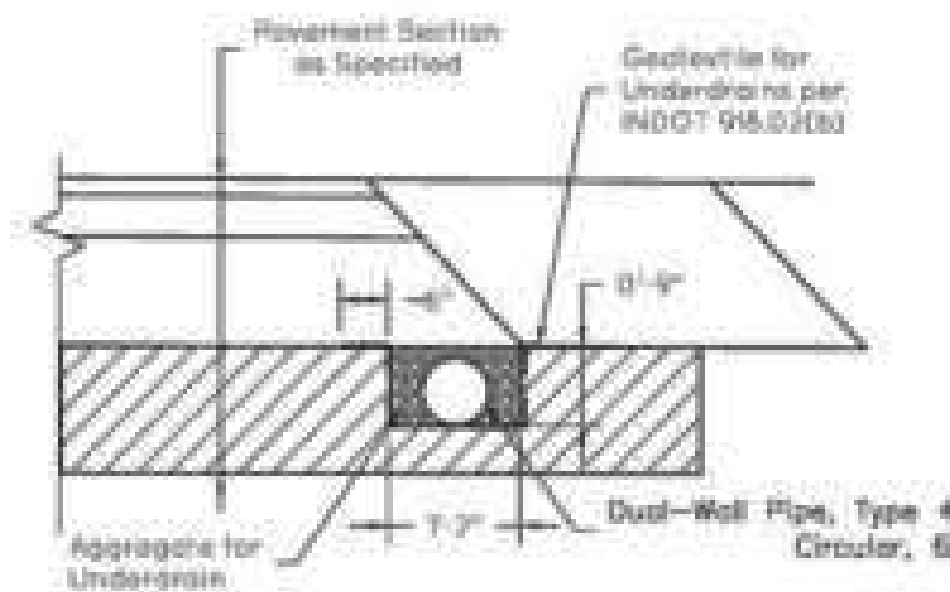
CONCRETE SLOPED CURB - FOR ROUNDABOUTS
Not to Scale



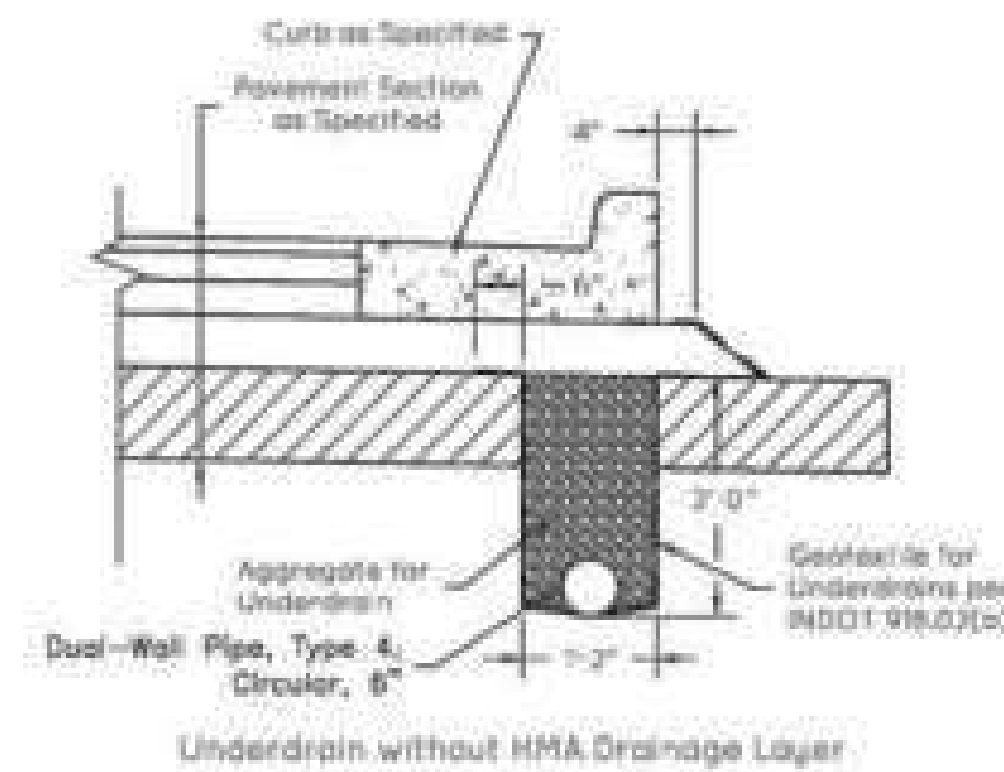
CONCRETE COMBINED CURB & GUTTER - DEPRESSED
Not to Scale



CONCRETE BARRIER CURB
Not to Scale

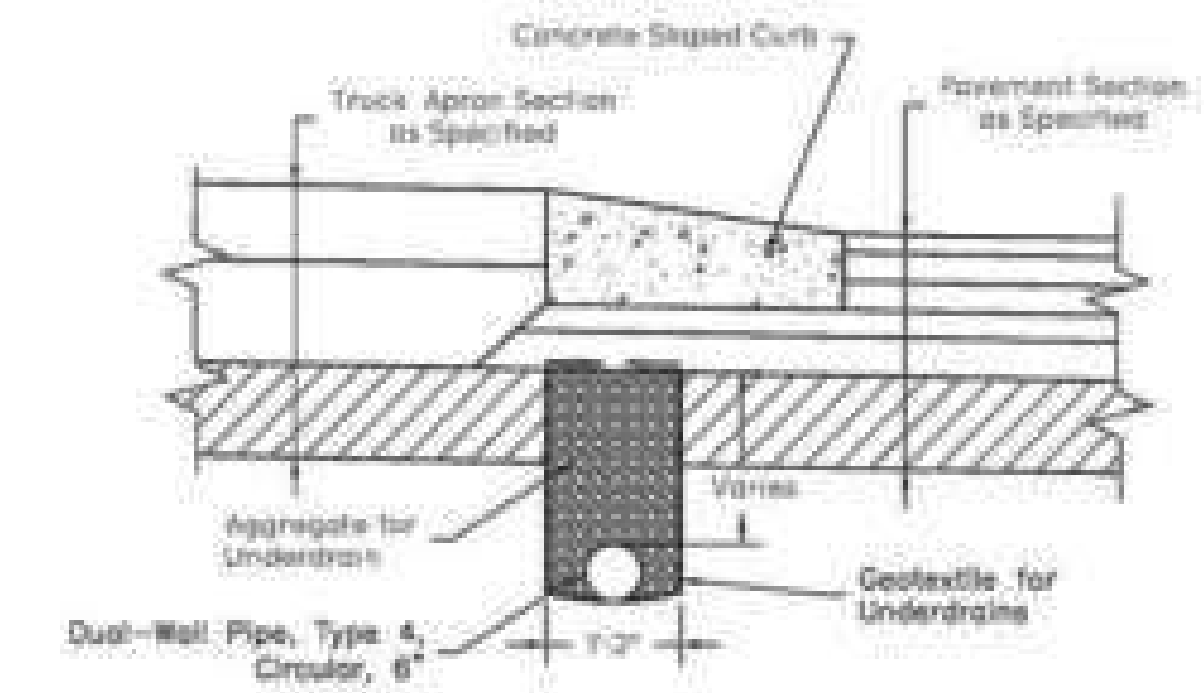
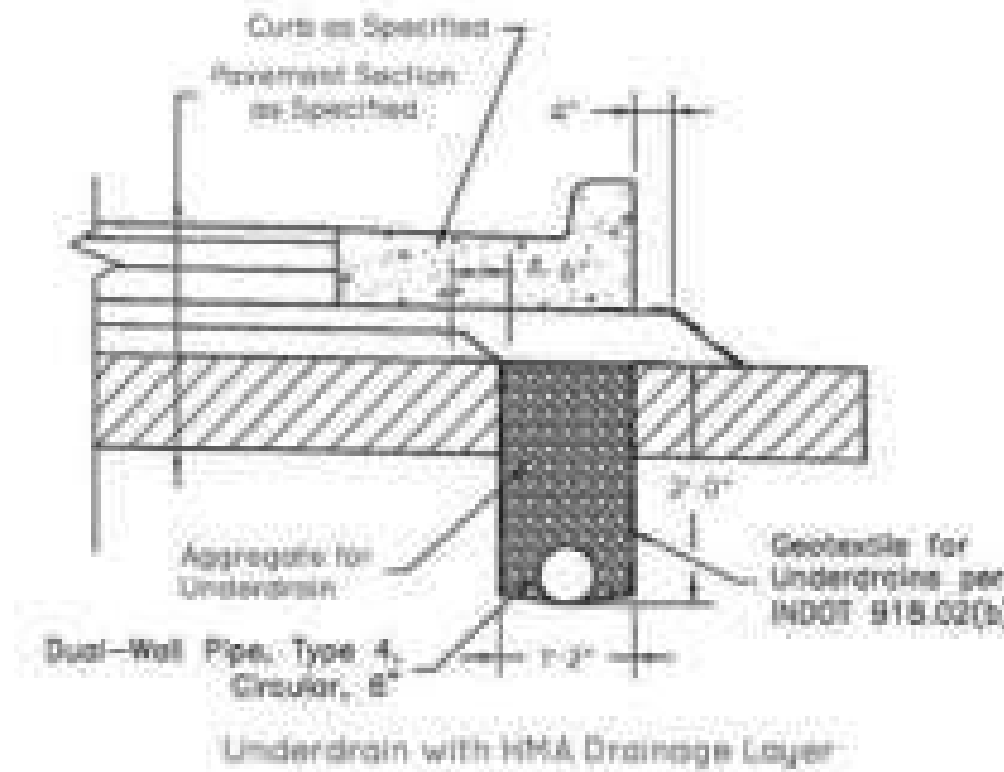


LOCAL STREET UNDERDRAIN
Not to Scale

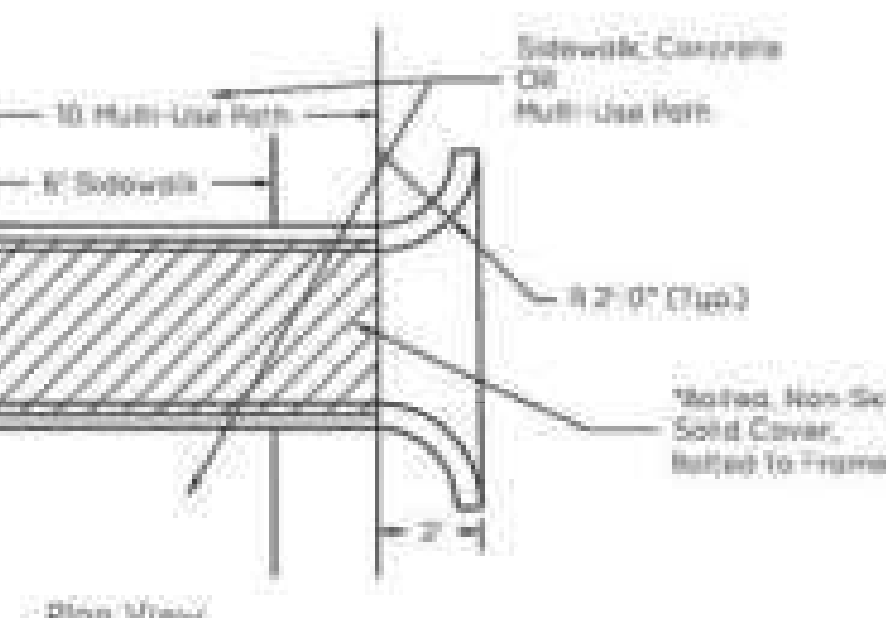
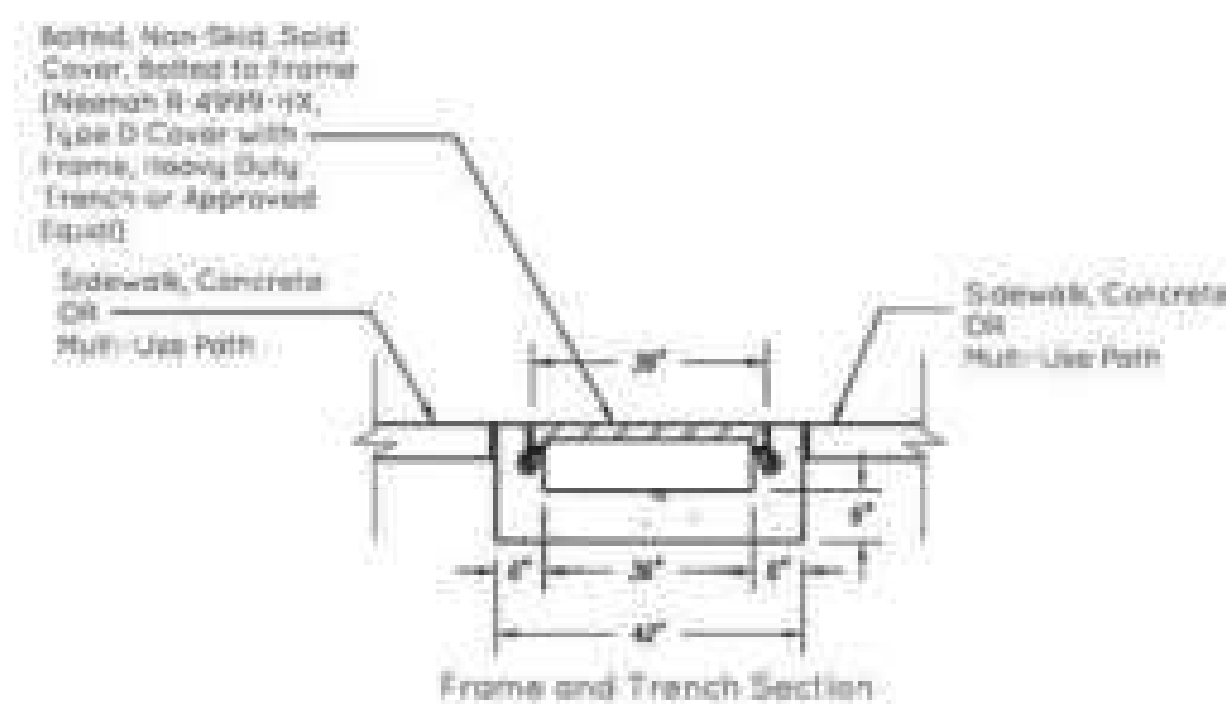


Note:
1) No connections shall be made to curb underdrain (downspouts, sump pumps, yard drains, etc).

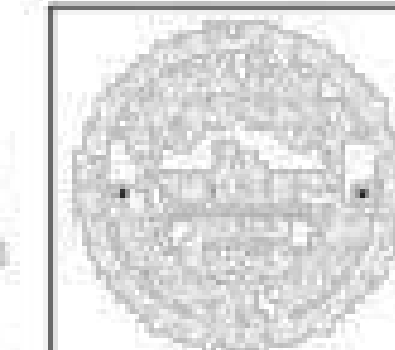
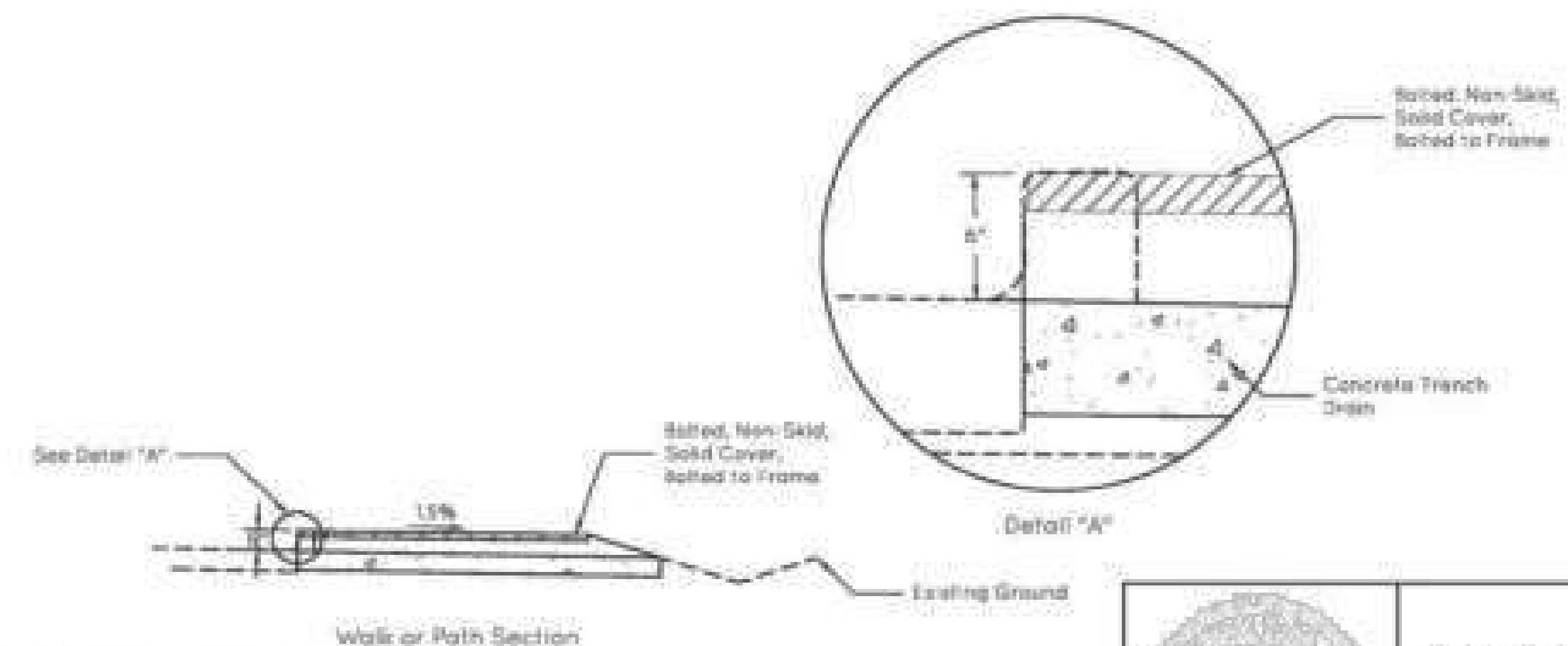
CURB UNDERDRAIN
Not to Scale



UNDERDRAIN AT ROUNDABOUTS (AS NEEDED)
Not to Scale



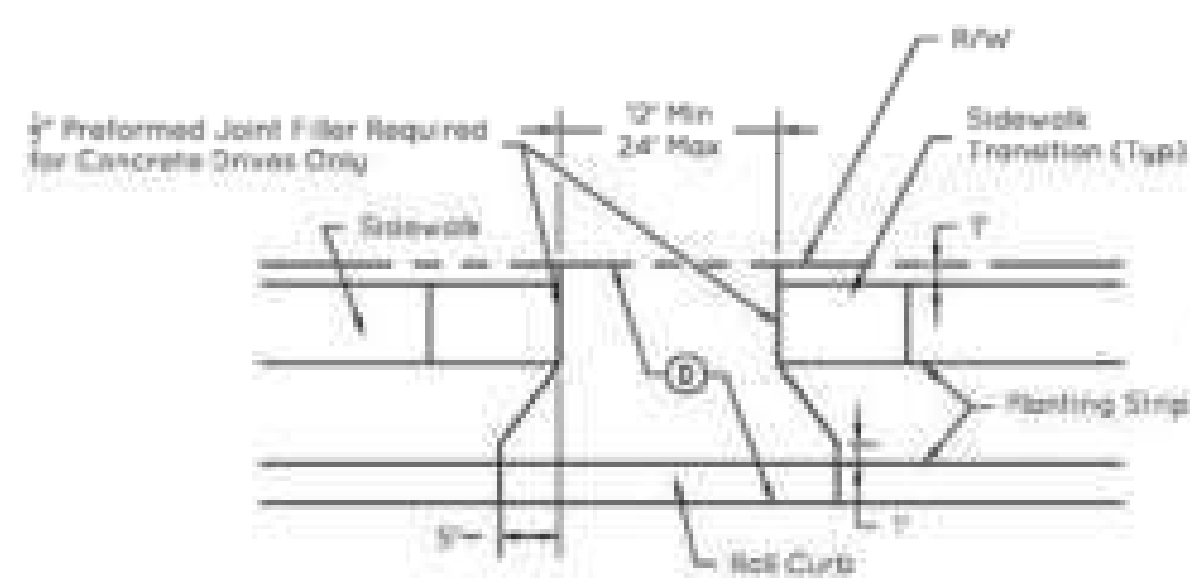
TRENCH DRAIN DETAIL W/ SIDEWALK OR MULTI-USE PATH
Not to Scale



CITY OF FISHERS
STANDARD CONSTRUCTION DETAILS
CURB AND UNDERDRAIN DETAILS

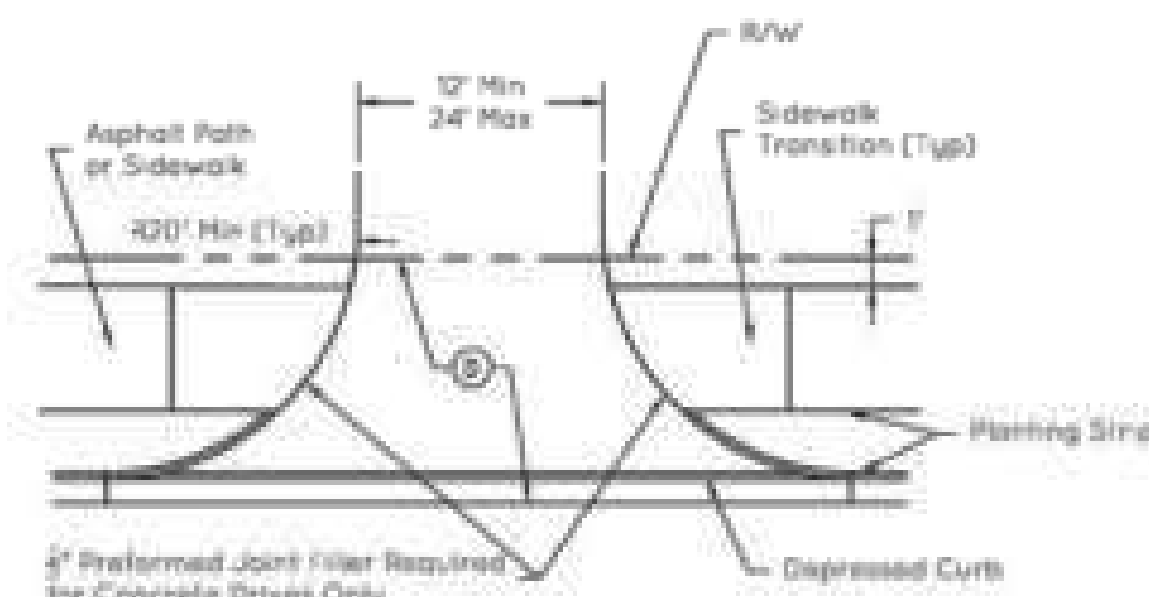
SHEET

4
of
29



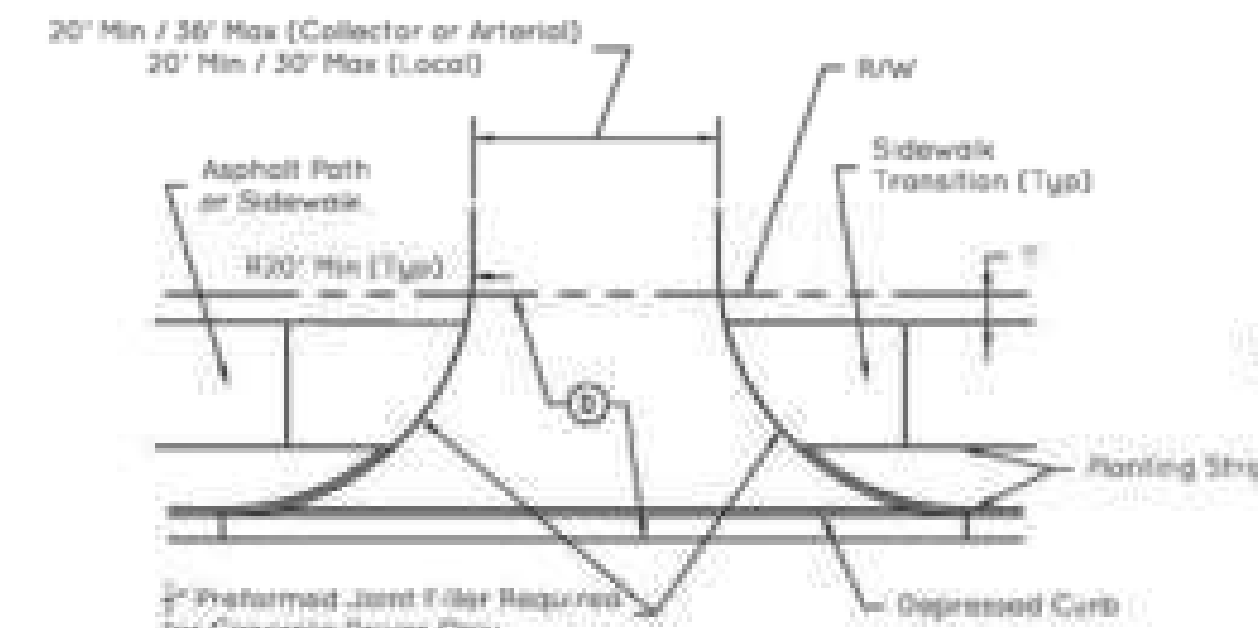
Residential Driveway on Local Road

PCCP for Approaches, 6 in., on Dense Graded Subbase, 6 in., on 6\"/>



Residential Driveway on Collector, Secondary, or Primary Arterial

PCCP for Approaches, 6 in., on Dense Graded Subbase, 6 in., on 6\"/>



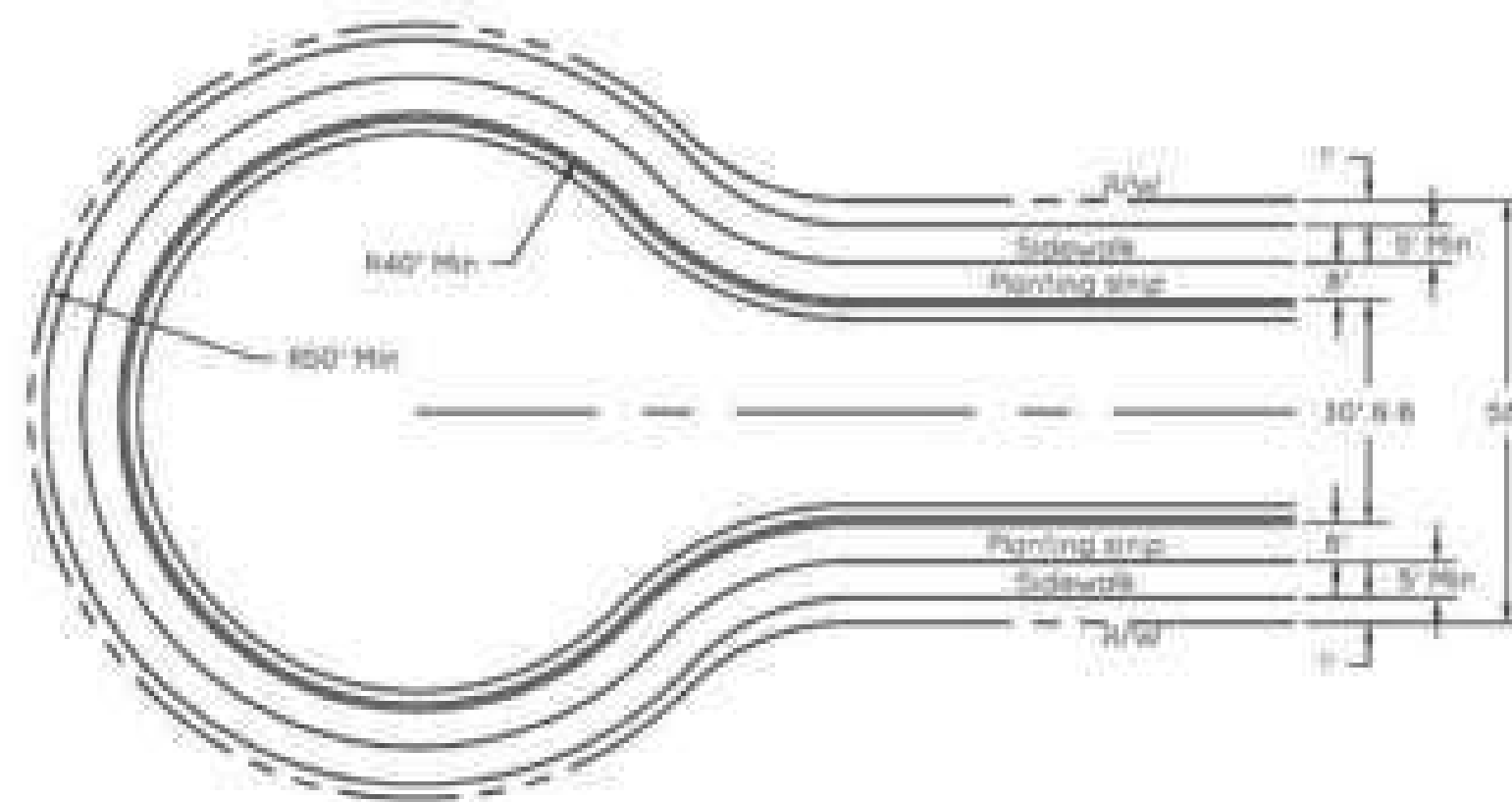
Commercial Driveway

PCCP for Approaches, 9 in., on Dense Graded Subbase, 6 in., on Geogrid, Type III, on 6\"/>

- Notes:
- 1) Details do not reflect additional road improvements (i.e., turn lanes and Tapers).
 - 2) Decorative driveway aprons are not allowed except as approved by the Director of Engineering.
 - 3) Maximum driveway slope outside of right-of-way shall be 12% for minimum 10 feet beyond R/W line.
 - 4) Adjoining asphalt shall have perpendicular edges.
 - 5) Asphalt shall not be used for residential driveways on Collector, Secondary, or Primary Arterials.
 - 6) Asphalt must match adjacent mainline cross section for commercial approaches.

DRIVEWAY DETAILS

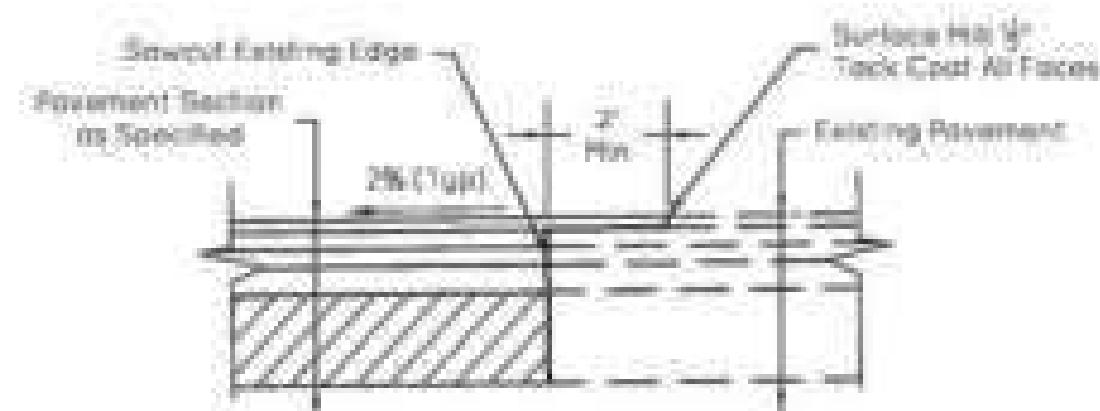
Not to Scale



Note:
1) 'Eyebrows' are not allowed

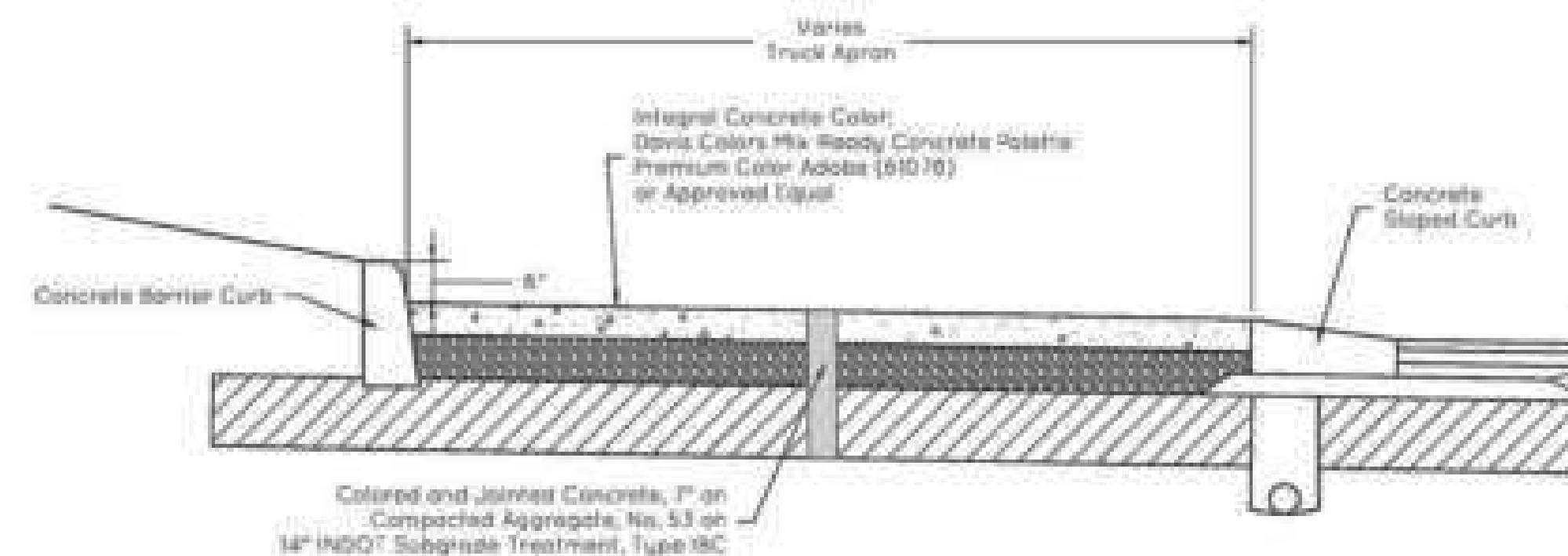
CUL-DE-SAC

Not to Scale



LONGITUDINAL PAVEMENT TIE-IN SECTION

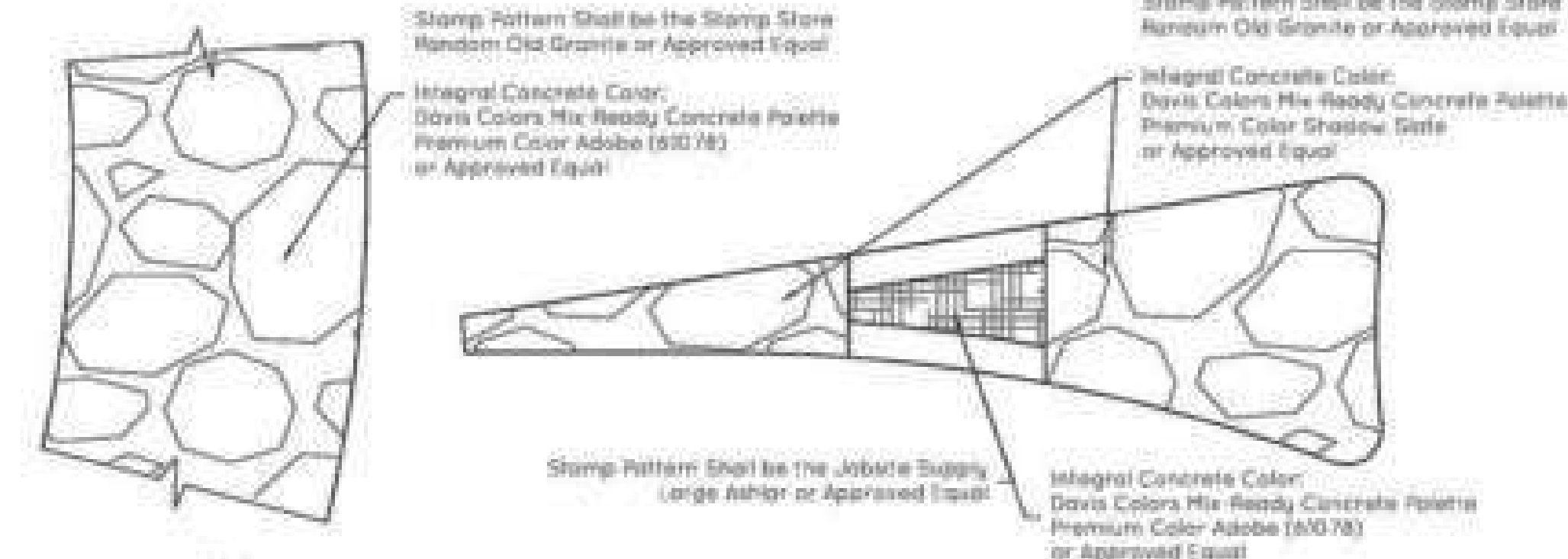
Not to Scale



Note:
1) Type D-1 Contraction Joints not required unless otherwise directed by Dept. of Engineering.

CONCRETE TRUCK APRON DETAIL

Not to Scale

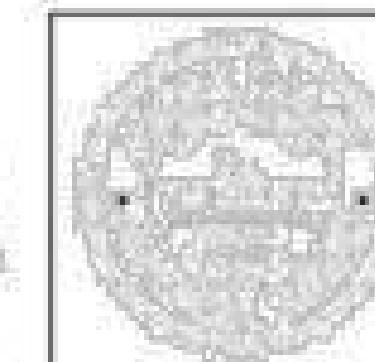


Notes:
1) Pattern shall be submitted to ENGINEER prior to construction.
2) A 4' x 4' mock-up is required for ENGINEER approval.
3) Concrete shall cure for a minimum of four days prior to applying sealant.

ROUNDABOUT TRUCK APRON AND SPLITTER ISLAND STAMP DETAIL

Not to Scale

[Signature]
1/28/2018



CITY OF FISHERS
STANDARD CONSTRUCTION DETAILS

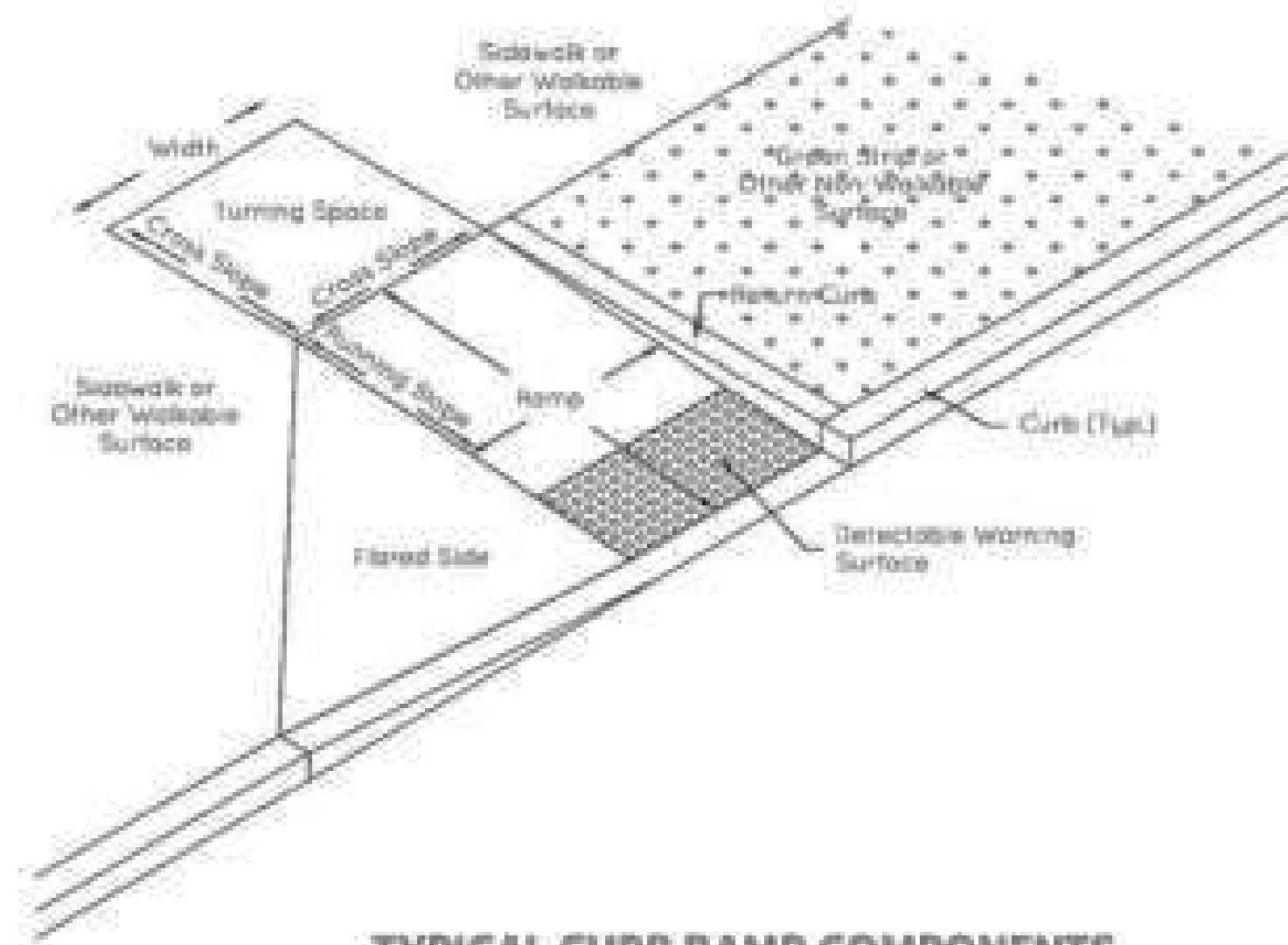
DRIVEWAY, CUL-DE-SAC, AND
MISC. TRANSPORTATION DETAILS

SHEET

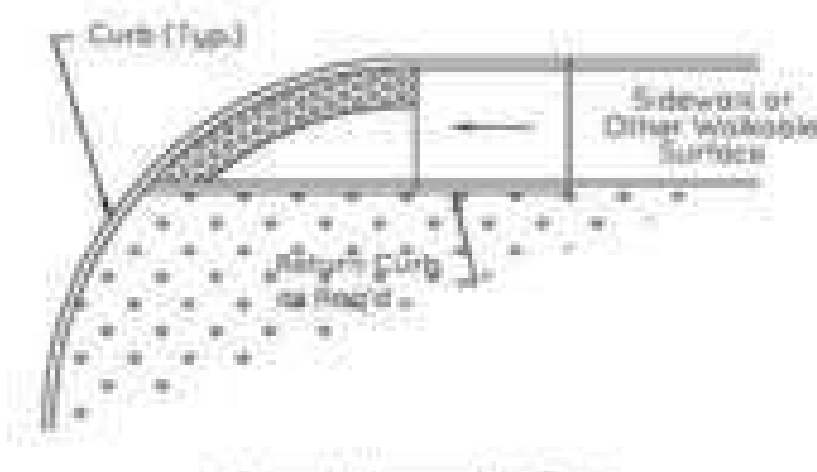
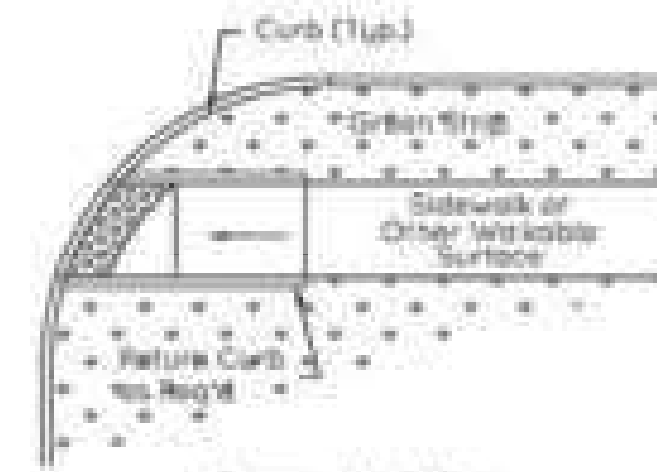
5
of
29

NOTES

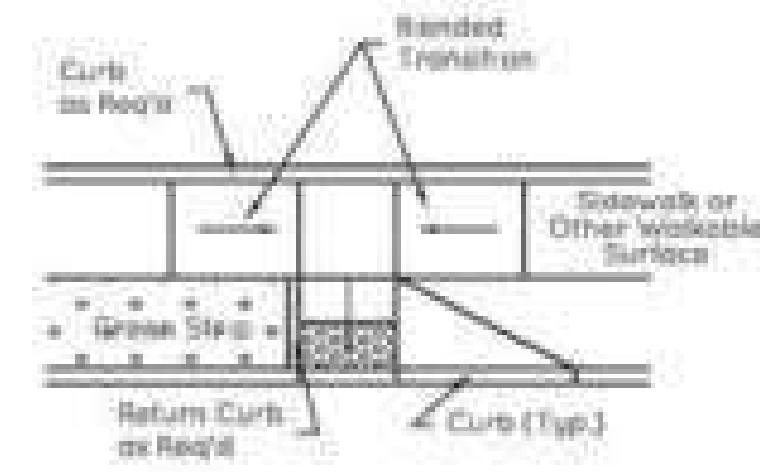
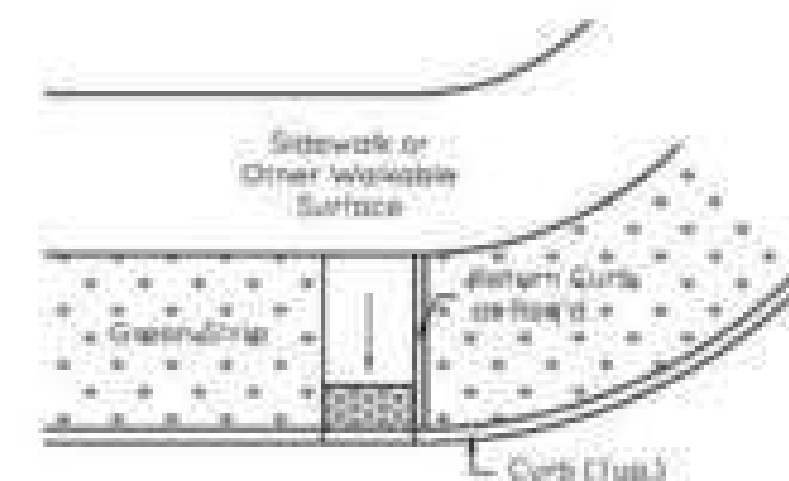
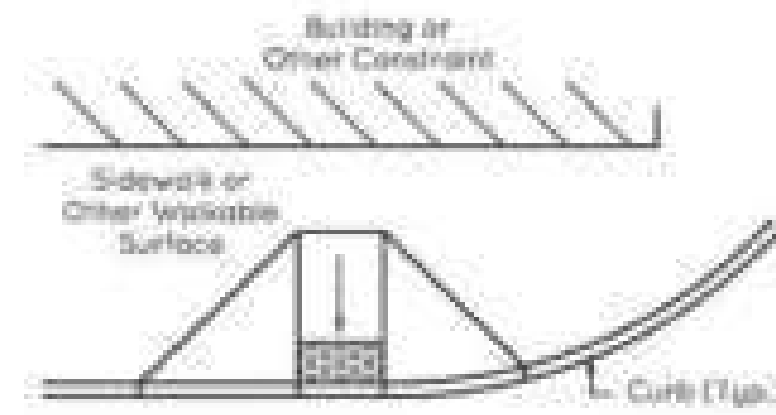
- 1) Curb ramps and sidewalks shall be constructed in accordance with INDOT Standard Specifications, Section 604.
- 2) All sidewalks and curb ramps within Fishers Right-of-Way shall be ADA compliant.
- 3) Detectable Warning Surfaces shall be cast iron type and shall be powder coated black.
- 4) Detectable Warning Surfaces shall not be installed at commercial or private driveways unless traffic warrants or approved by City Engineer.
- 5) Transverse joints shall be cut with a jointer having a radius of 1/2-inch of spacing.
- 6) Decorative sidewalks are not permitted unless prior approval has been given by the Director of Engineering.
- 7) When sidewalk is built in conjunction with concrete pavement, expansion and contraction joints should be placed at the same location as the pavement slab. The curb and gutter shall be tied to the pavement by 1/2-in round preformed epoxy coated bars at approximate 3-foot intervals. If concrete pavement is not being built at the same time the curb is constructed, expansion joints should be placed at the ends of all returns and at intervals not to exceed 100 feet. Contraction joints should be installed at 20-foot intervals.
- 8) Curb inlets shall not be allowed within 2 feet of curb ramps or at the apex of corner radii.



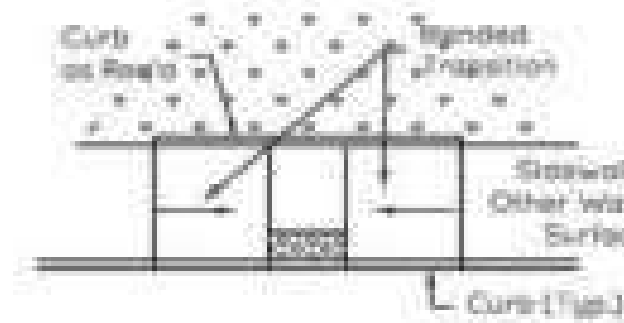
TYPICAL CURB RAMP COMPONENTS
Not to Scale



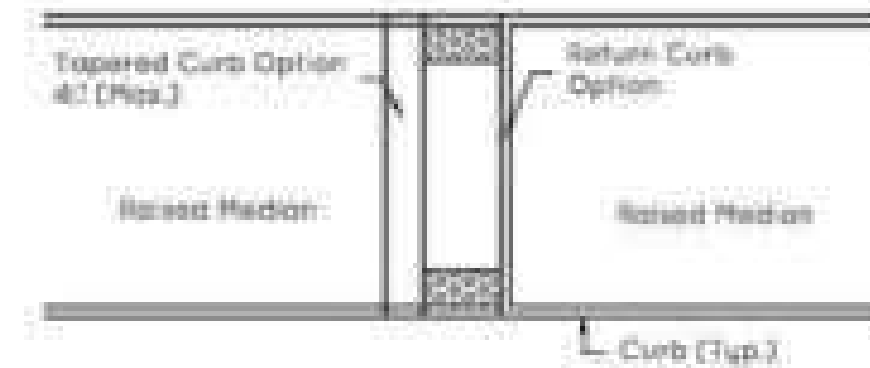
ONE-WAY DIRECTIONAL PERPENDICULAR CURB RAMP EXAMPLES
Not to Scale



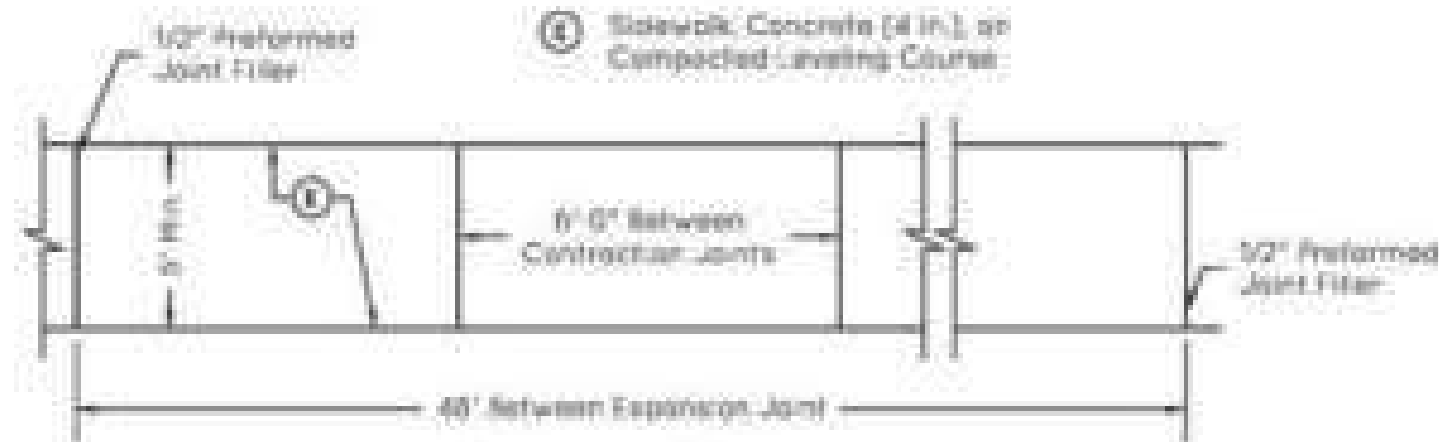
PERPENDICULAR CURB RAMP EXAMPLES
Not to Scale



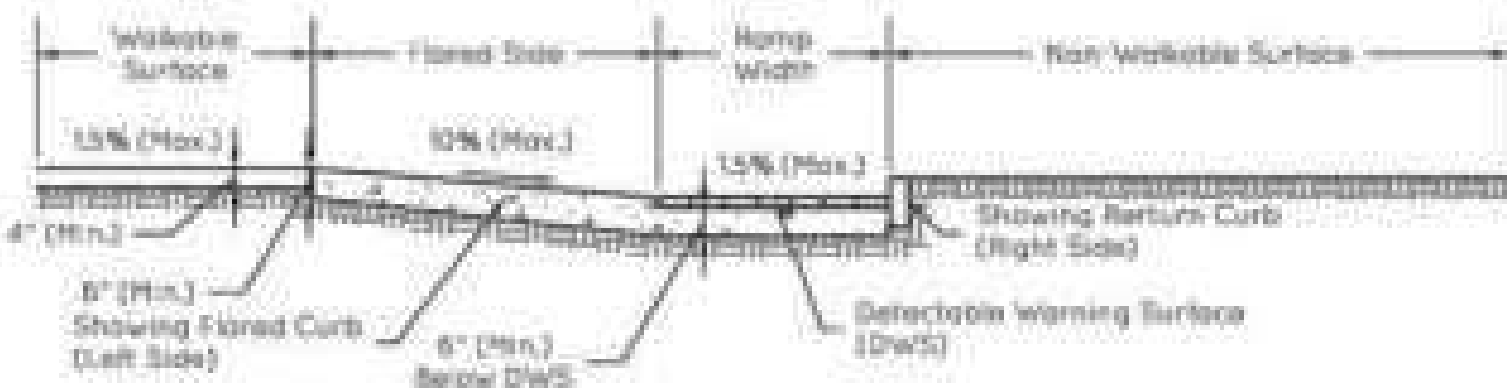
PARALLEL CURB RAMP EXAMPLE
Not to Scale



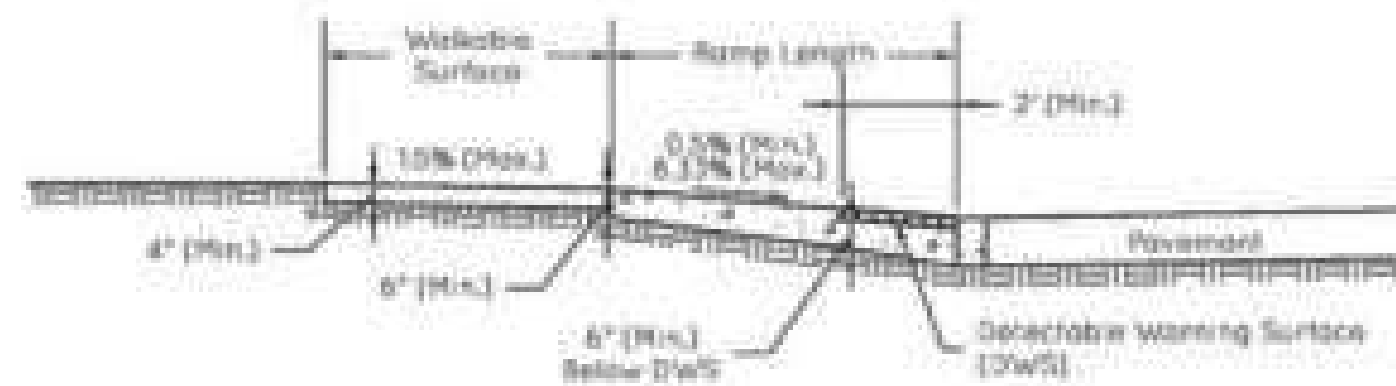
MEDIAN CURB RAMP EXAMPLE
Not to Scale



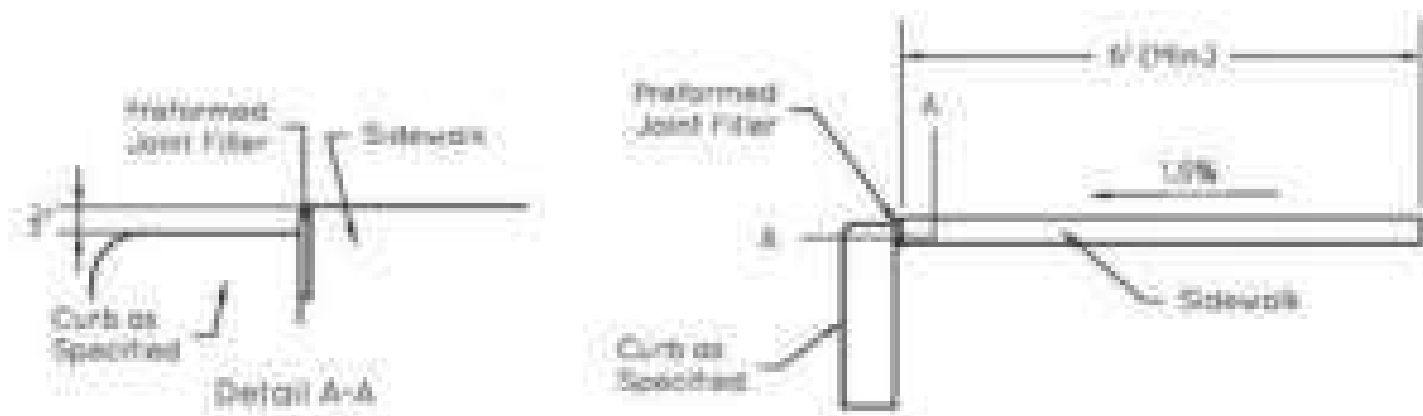
SIDEWALK DETAIL
Not to Scale



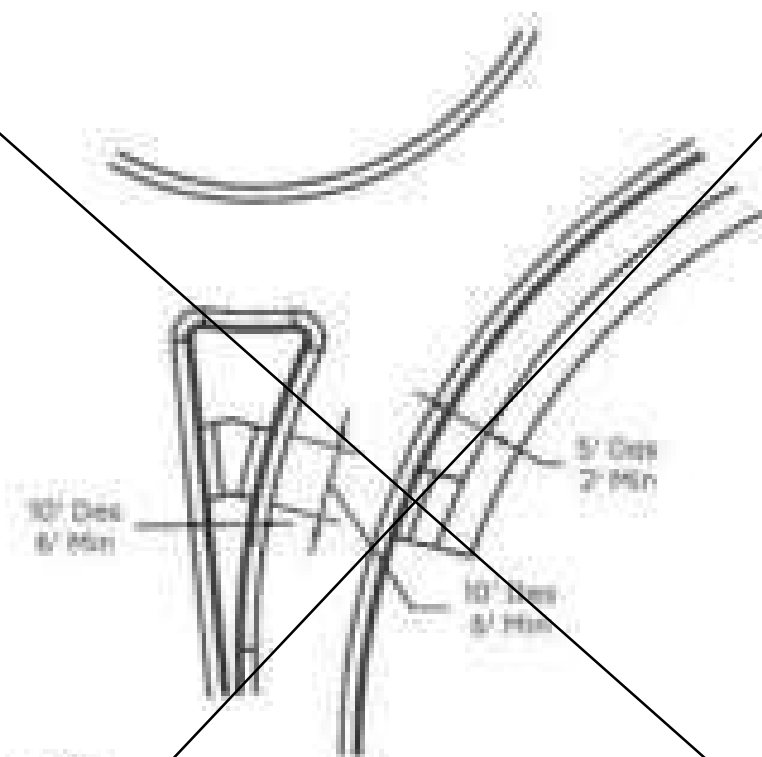
TYPICAL CURB RAMP CROSS SLOPE SECTION
Not to Scale



TYPICAL CURB RAMP RUNNING SLOPE SECTION
Not to Scale

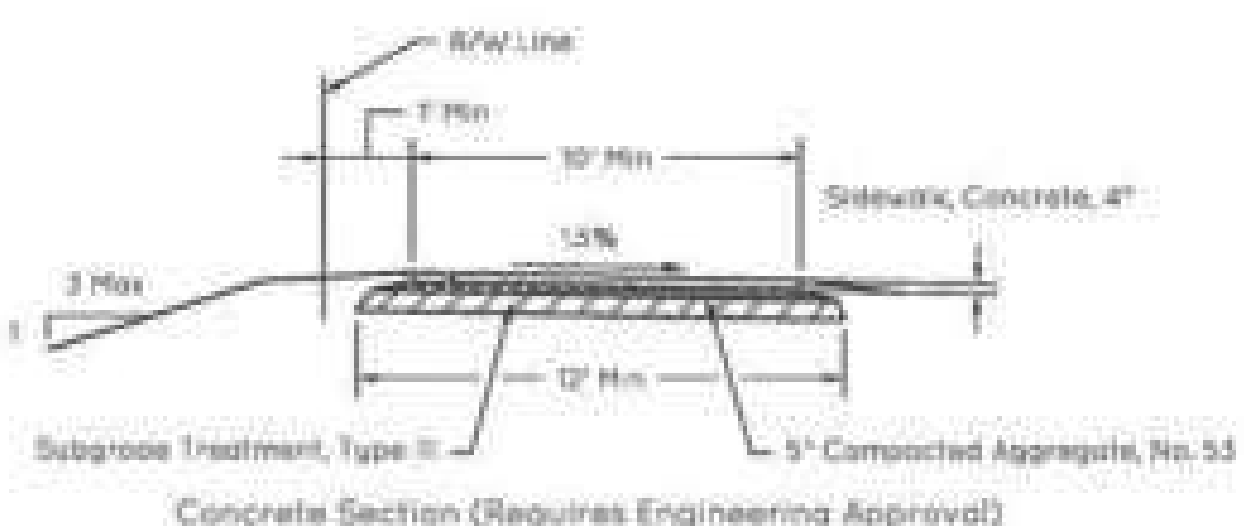


SIDEWALK ADJACENT TO CURB
Not to Scale

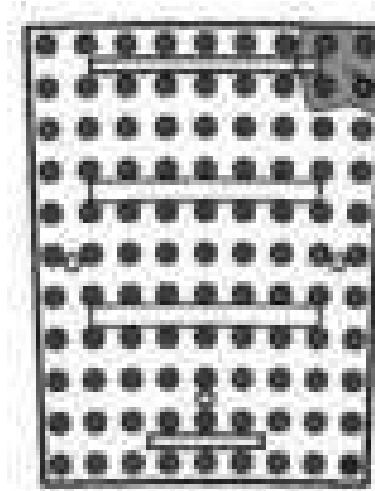
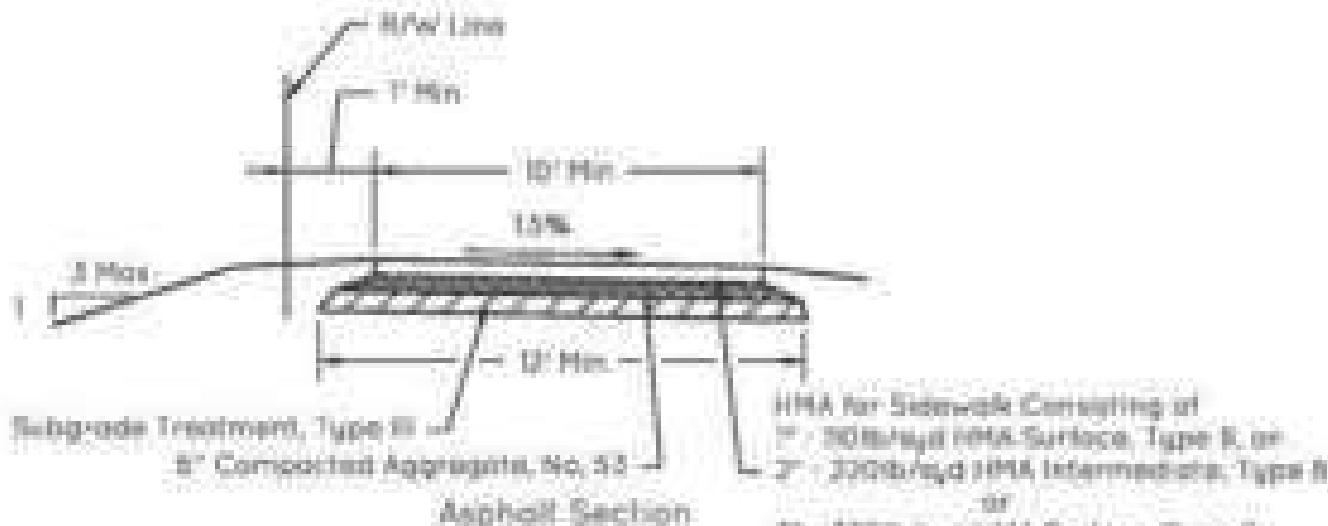


Note:
1) If 6' minimum cannot be achieved at the splitter island, crosswalk shall be of passthrough type without angular deflection.

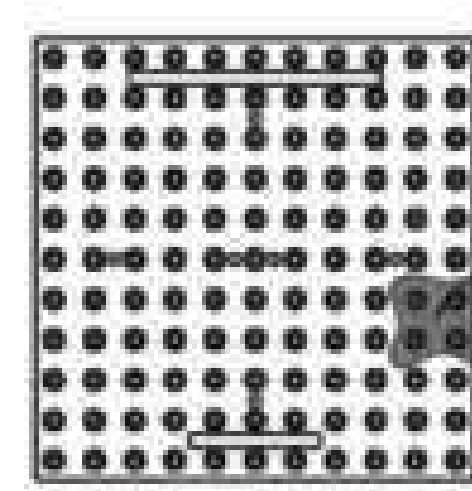
ROUNDABOUT SIDEWALK AND CURB RAMP PLACEMENT
Not to Scale



PERIMETER PATH
Not to Scale



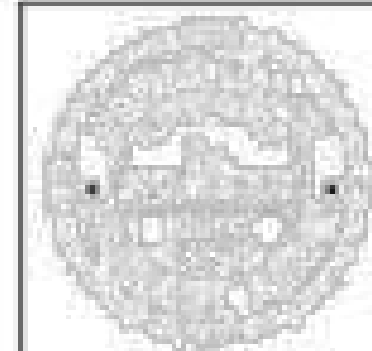
Curved Panel



Square Panel

- Note:
- 1) Detectable warning surfaces by East Jordan Iron Works, Neenah, or approved equal shall be cast iron, have a heavy duty load rating, and be powder coated black.
 - 2) Detectable warning surfaces shall be ADA compliant.

DETECTABLE WARNING SURFACE
Not to Scale



CITY OF FISHERS
STANDARD CONSTRUCTION DETAILS
SIDEWALK, CURB RAMP, AND PERIMETER PATH DETAILS

SHEET
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PRINCIPLES AND OBJECTIVES

Several overarching principles should guide the development of all roundabout designs. Achieving these principles should be the goal of any roundabout design:

- Provide slow entry speeds and constant speeds through the roundabout by using deflection.
- Provide the appropriate number of lanes and lane assignment to achieve adequate capacity, lane volume balance, and lane continuity.
- Provide smooth channelization that is intuitive to drivers and results in vehicles naturally using the intended lanes.
- Provide adequate accommodation for the design vehicles.
- Design to meet the needs of pedestrians and cyclists.
- Provide appropriate sight distance and visibility for driver recognition of the intersection and conflicting users.

Note that some features of multi-lane roundabout design are significantly different from single-lane roundabout design, and some techniques used in single-lane roundabout design may not directly transfer to multi-lane design. Each of the principles described above affects the safety and operations of the roundabout. When developing a design, the trade-offs of safety, capacity, cost, and so on must be recognized and assessed throughout the design process.

DESIGN GUIDELINES

Submittals

All roundabout designs shall be submitted for review at the following stages of development:

- 1) Conceptual
 - 1(1) Preliminary layout
 - 1(2) Planned roundabout capacity analysis for construction year, 10-year, and 20-year traffic review
- 2) Stage 1 or 25% plans
 - 2(1) Refined geometrics
 - 2(2) Turning movement and design vehicle selection review
 - 2(3) Striping review
- 3) Stage 2 or 50% plans
 - 3(1) Drainage and grade review
 - 3(2) Roundabout sight distance review
- 4) Stage 3 or 75% plans
 - 4(1) Landscaping review
 - 4(2) Lighting review
 - 4(3) Signage review

Speed Management

The maximum allowable fastest path entry speeds shall be as indicated below unless prior approval has been given by the Department.

- 1) Single-lane roundabouts - 25 mph
- 2) Multi-lane roundabouts - 30 mph

Design Vehicle Selection

- 1) The WB-62 shall be the minimum design vehicle for sizing the roundabout unless prior approval has been given by the Department.
 - 1(1) At multi-lane approaches it shall be assumed that the WB-62 will straddle the lane line to make a through and right-turn movement.
- 2) At a minimum, the WB-62 shall be able to travel through a roundabout without over-tracking any curb with the exception of the truck apron roll curb unless prior approval has been given by the Department.
- 3) The circulatory roadway and all lanes within a multi-lane roundabout shall accommodate a city-bus, fire truck, and school bus unless prior approval has been given by the Department.

Inscribed Circle Diameter (ICD)

Unless prior approval is given by the Department, the smallest ICD used for design shall be 110 ft.

Entry Geometry and Path Alignment

- 1) If horizontal deflection is utilized on an approach to a roundabout it should be a 6 ft offset minimum and, ideally, 10 to 12 ft to ensure drive path is influenced.
- 2) Entries shall be designed such that path overlap is eliminated.

Profiles and Grades

Vertical profiles and roundabout grading should take into consideration low clearance vehicles especially on heavy truck routes.

Splitter Islands

- 1) Splitter islands for single-lane roundabouts should be 50 feet or greater in length and 100 feet or greater in length for multi-lane roundabouts measured from the circulatory roadway.
- 2) On high speed approaches (design speed of approaching roadways above 45 mph) consideration should be given for the splitter island length to be the SSD of that design speed.

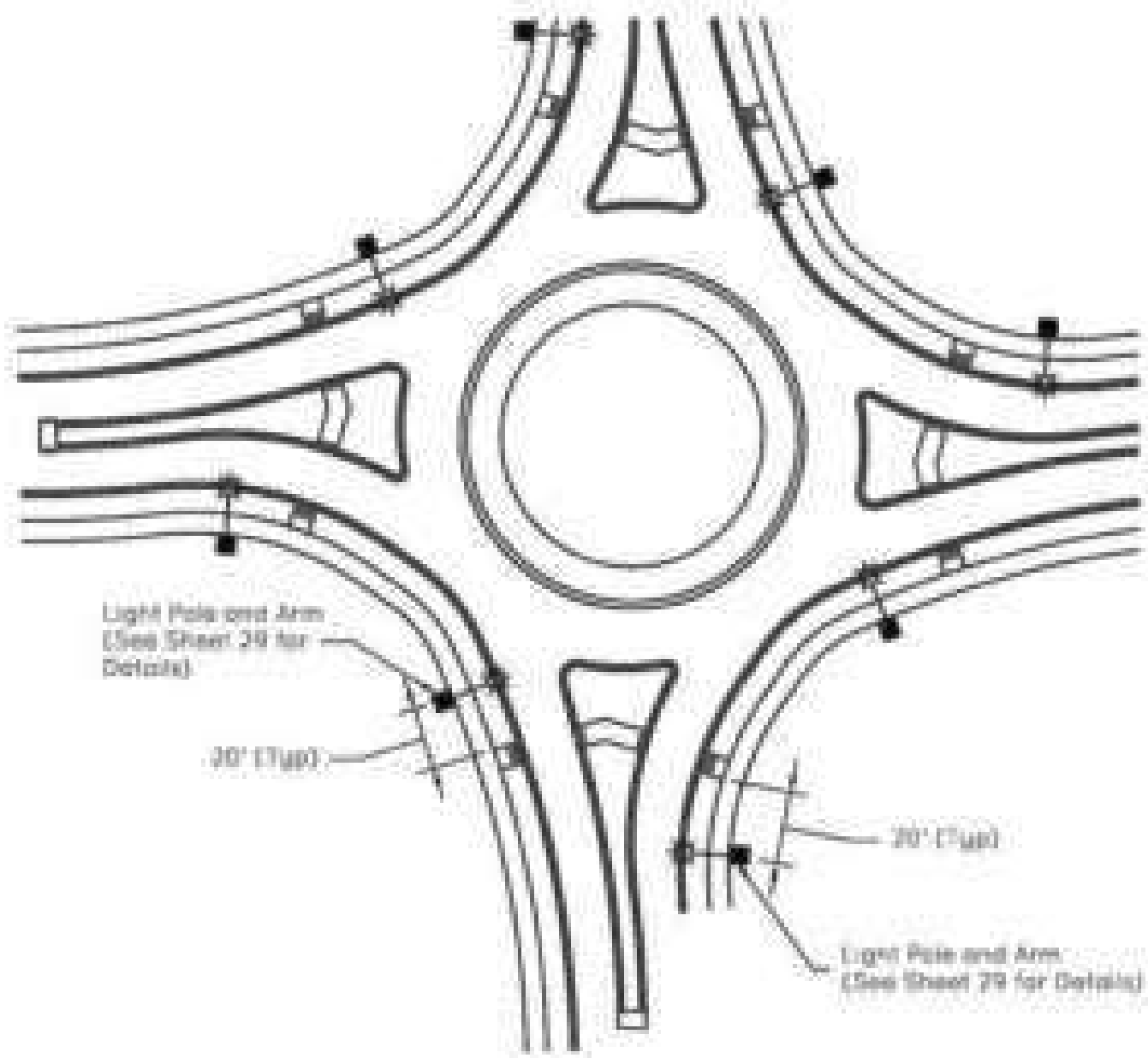
Drainage

No drainage structures shall be located within the circulatory roadway unless prior approval has been given by the Department.

Landscape

Any landscaping or object located within the center island shall be approved by the City of Fishers.

- 1) If no landscaping is proposed in the center island, it should be placed at a 6:1 slope in order to provide a sight obstruction mound.
- 2) All splitter islands less than 6 ft in width and between the pedestrian crosswalk and circulatory roadway shall not be landscaped and shall be in stamped concrete unless prior approval has been given by the Department.
- 3) The minimum median width shall be 52 inches. If 52 inches cannot be achieved, then median must be stamped concrete or landscaped with typical Fishers narrow median landscape plan as provided by City during plan review.

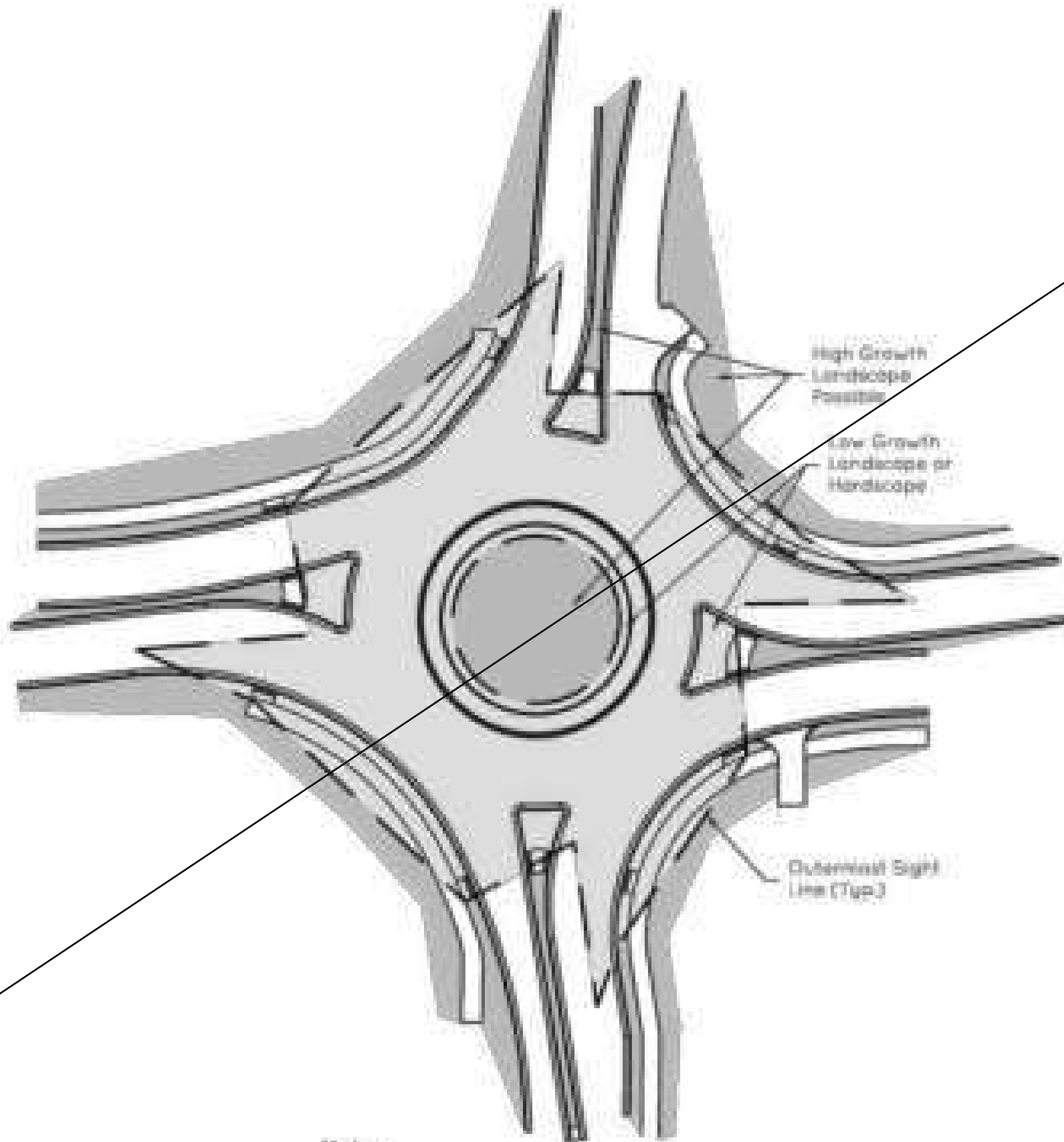


Notes:

- 1) Lighting design shall be in conformance with the IES Design Guide (IES DG-10-06) and City of Fishers standards.
- 2) Luminaire, pole, and placement shall be coordinated for installation by Suke Energy.
- 3) Do not backlight pedestrians.
- 4) The full length of splitter islands shall be illuminated unless prior approval has been given by the Department.
- 5) Additional poles should be provided as required to meet appropriate photometric results for complex geometry.

TYPICAL LIGHTING PLACEMENT

Not to Scale

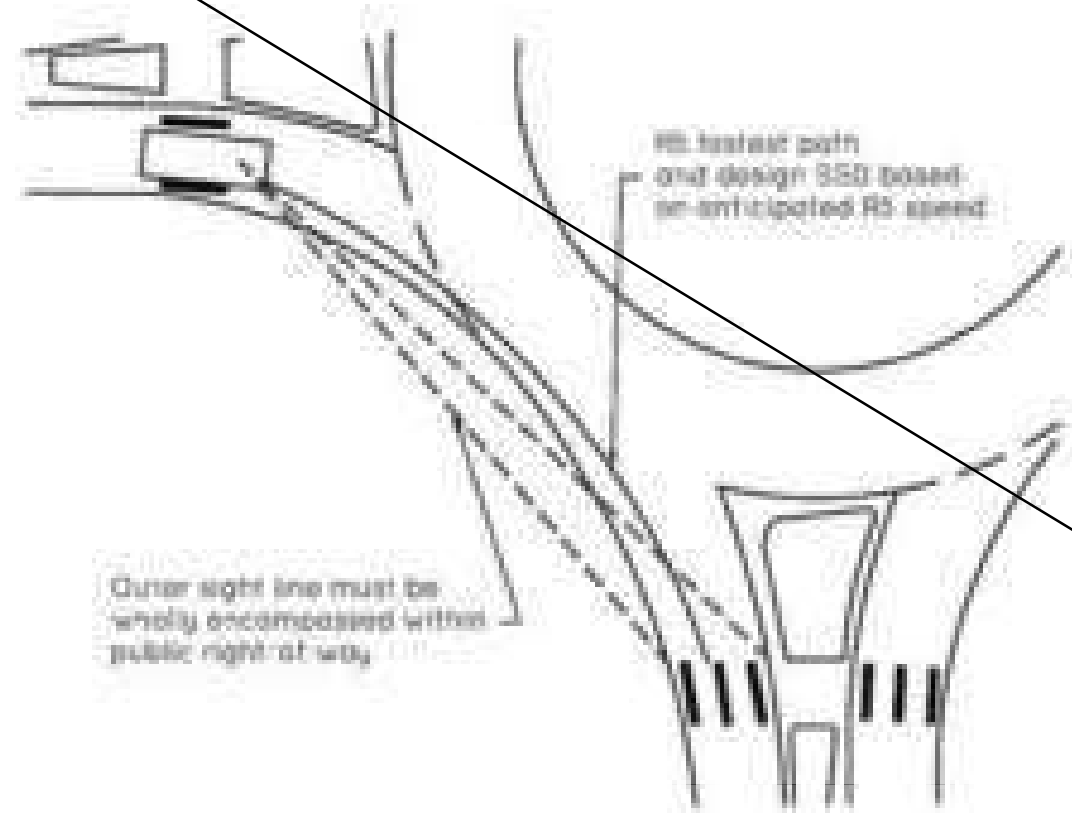


Notes:

- 1) A scalable plan sheet and CAD file shall be provided to the Dept. of Engineering upon completion of final plans.

EXAMPLE LANDSCAPE AREAS DIAGRAM

Not to Scale



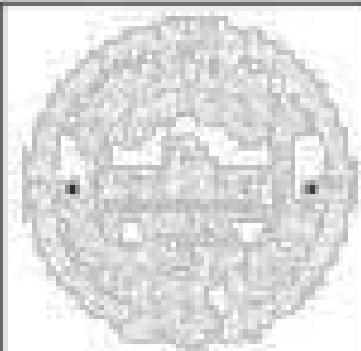
Notes:

- 1) This detail is to provide additional guidance to designers. Designer shall not arbitrarily place vehicle at yield line or circulatory roadway edge line to check visibility.
- 2) All roundabout sight lines shall be checked in accordance with NCHRP 672.

STOPPING SIGHT DISTANCE (SSD) TO CROSSWALK

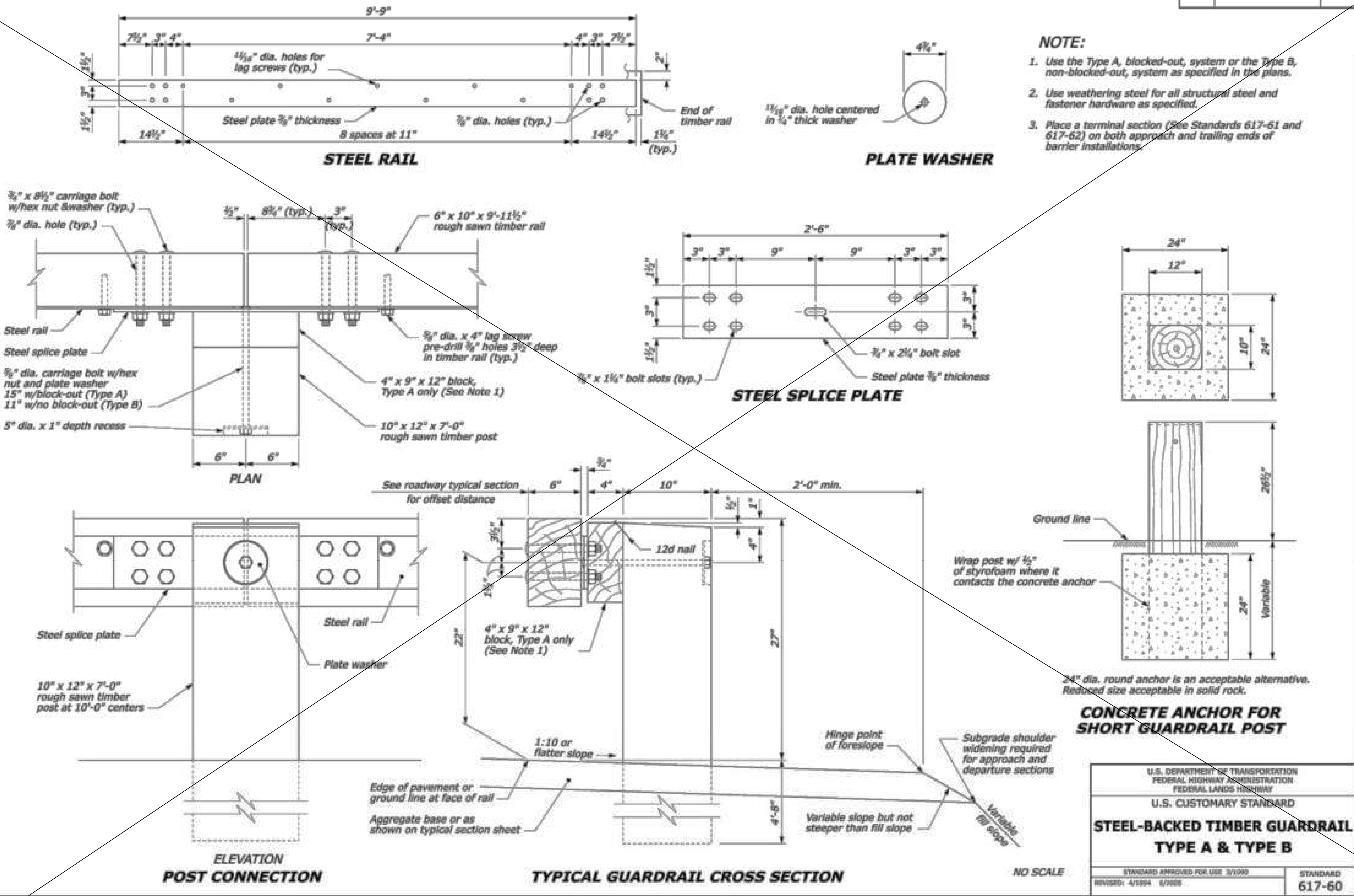
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1/28/2018



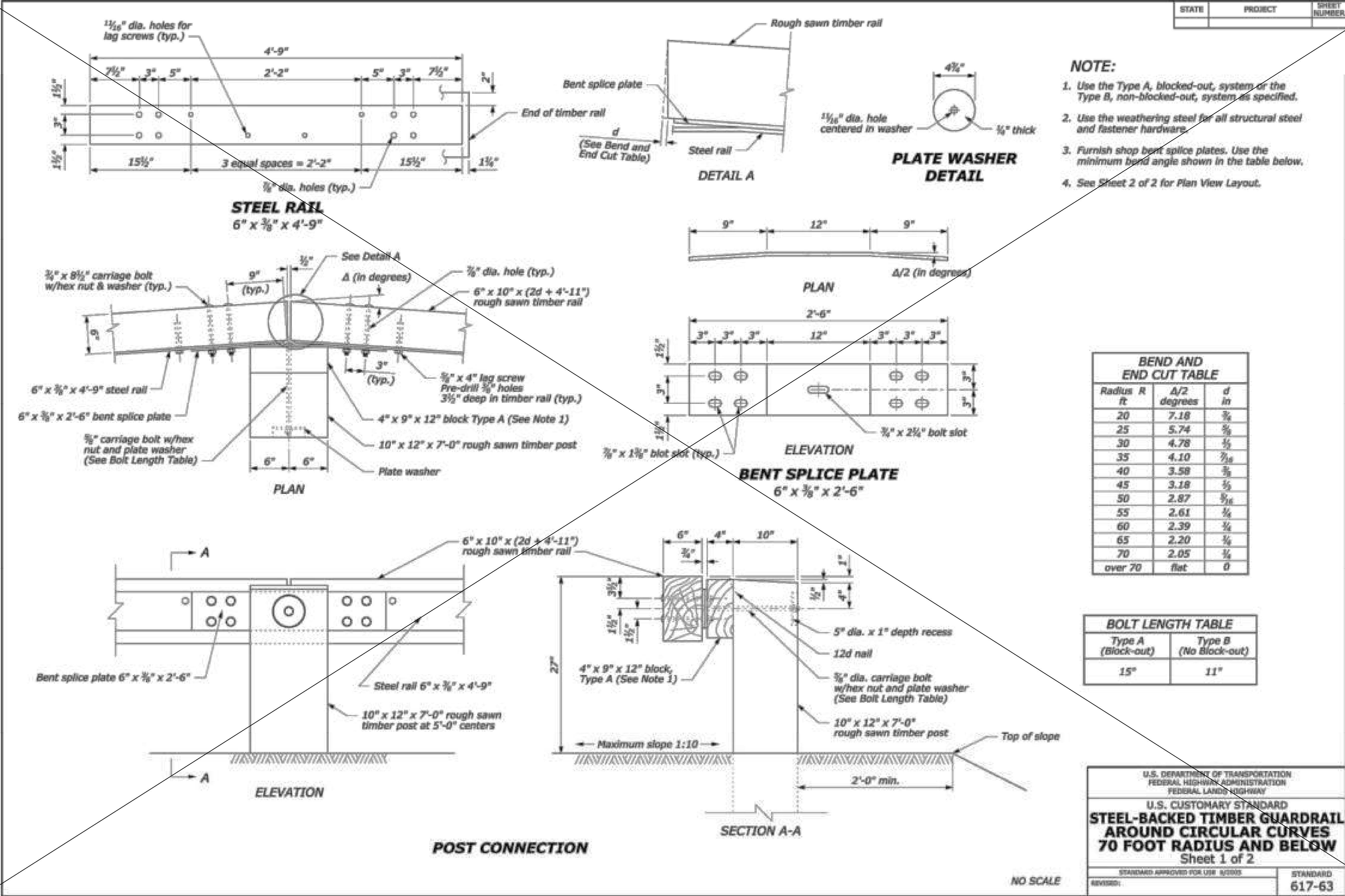
CITY OF FISHERS STANDARD CONSTRUCTION DETAILS		SHEET
ROUNDOABOUT DESIGN STANDARDS		7 of 29

STATE	PROJECT	SHEET NUMBER



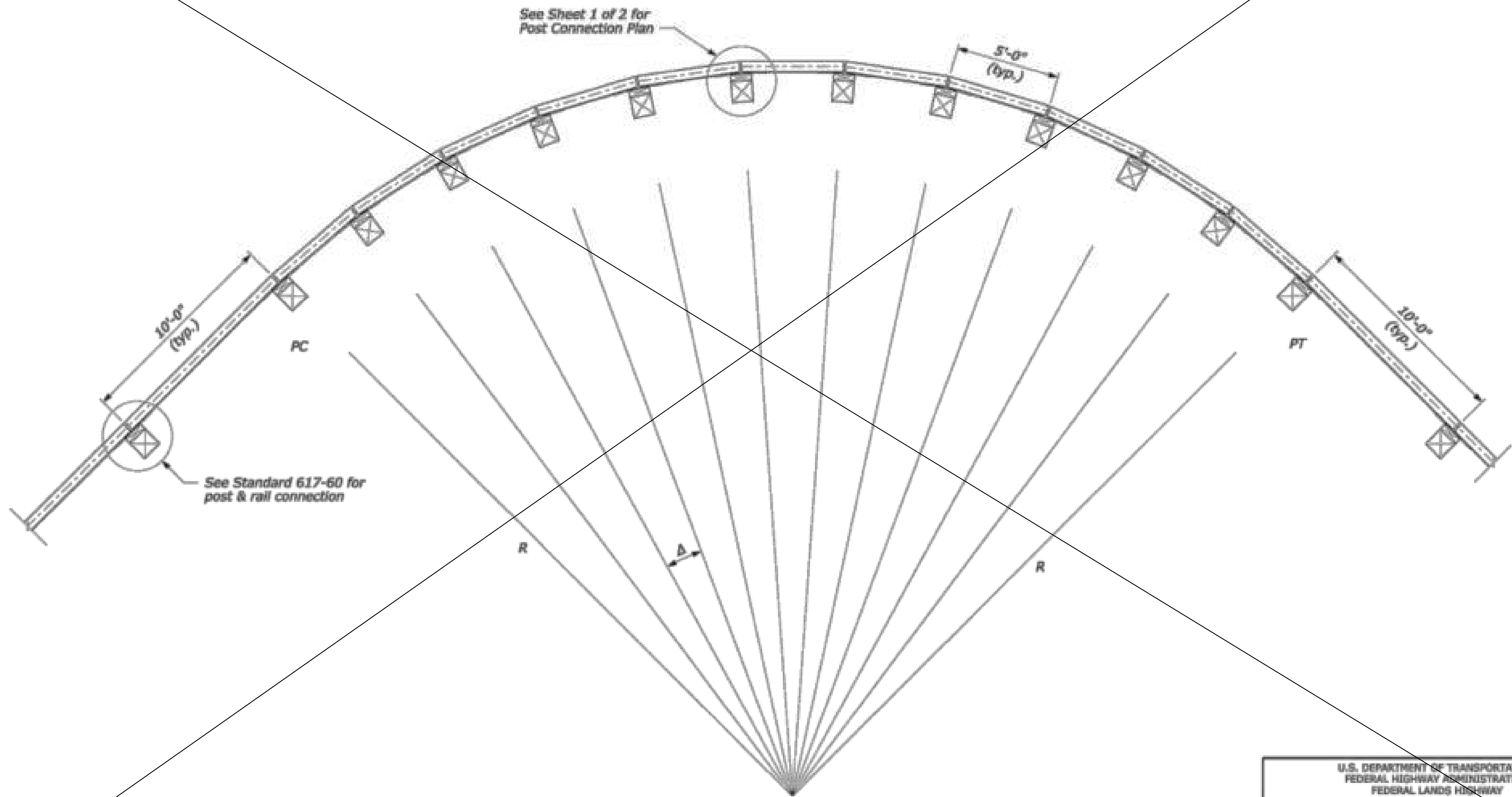
	CITY OF FISHERS		SHEET
	STANDARD CONSTRUCTION DETAILS		9 of 29
	FHWA TIMBER GUARDRAIL DETAILS		

STATE	PROJECT	SHEET NUMBER



STATE	PROJECT	SHEET NUMBER

- NOTE:**
1. Δ is the central angle which subtends a 5'-0" chord.
 2. R is measured from the center of the circle to the back surface of the rough sawn timber rail.



PLAN VIEW LAYOUT

U.S. DEPARTMENT OF TRANSPORTATION
FEDERAL HIGHWAY ADMINISTRATION
FEDERAL LANDS HIGHWAY

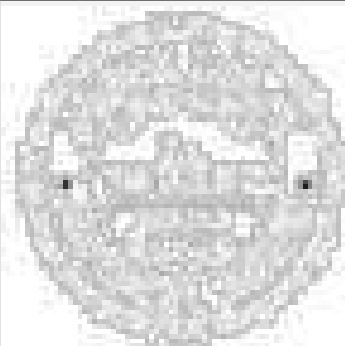
U.S. CUSTOMARY STANDARD
**STEEL-BACKED TIMBER GUARDRAIL
AROUND CIRCULAR CURVES
70 FOOT RADIUS AND BELOW**
Sheet 2 of 2

STANDARD APPROVED FOR USE 9/2005
REVISED:

STANDARD
617-63

NO SCALE

[Signature]
1/28/2011



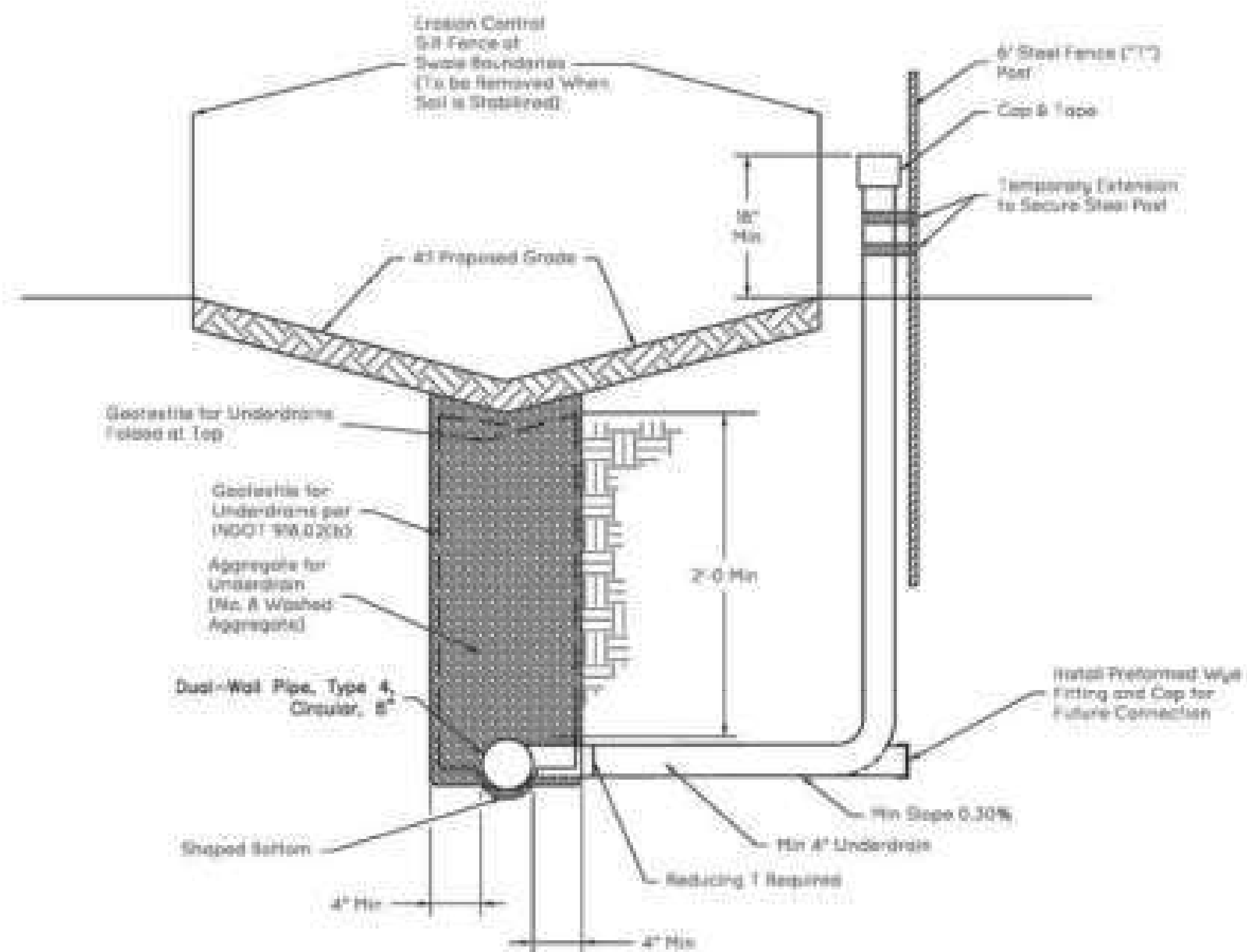
CITY OF FISHERS

STANDARD CONSTRUCTION DETAILS

FHWA TIMBER GUARDRAIL DETAILS

SHEET

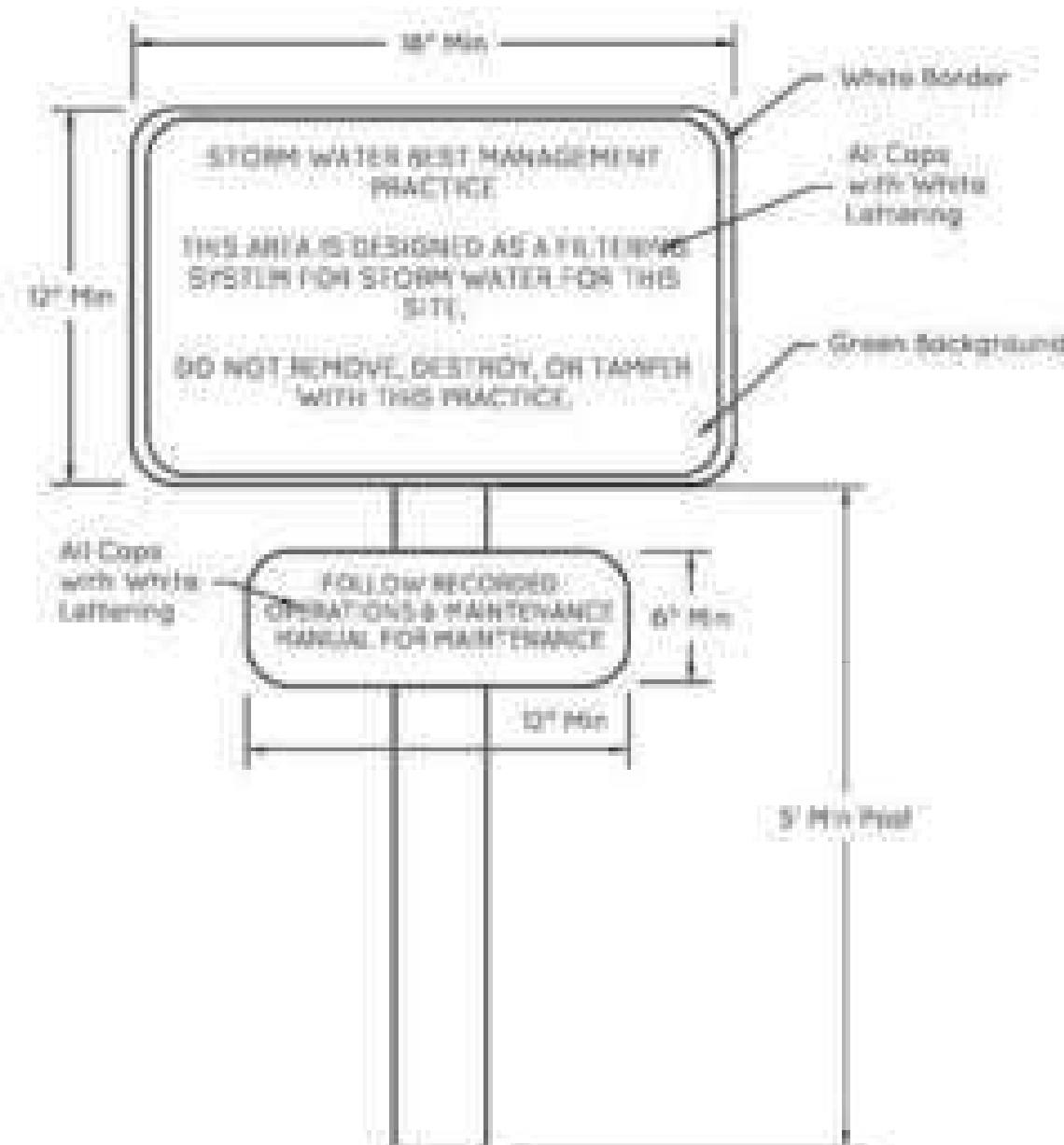
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- Notes:
- 1) Temporary extension above ground to be removed upon connection to house. If extension is not utilized, it shall be capped below ground level.
 - 2) Location of structures shall be shown on as-built plans.
 - 3) Must connect sump pumps to underdrain.
 - 4) Required for all rear yard drainage swales unless waived in writing by the Director of Engineering.

REAR YARD UNDERDRAIN

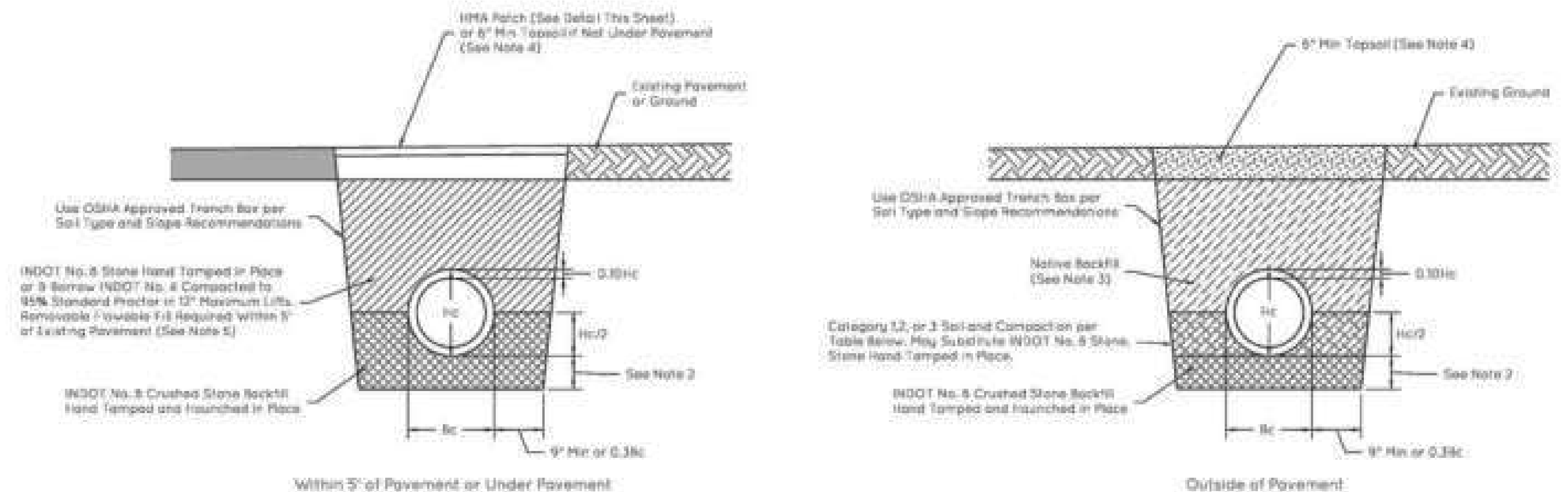
Not to Scale



- Notes:
- 1) BMP signs should be placed immediately adjacent or within the practice.
 - 2) Signs should be aluminum and meet minimum IMUTCD standards.
 - 3) Total number of signs required for each BMP is subject to plan review.

BMP SIGN

Not to Scale



SOIL CATEGORY	SOIL NAME	USCS SOIL TYPE	AASHTO SOIL TYPE	STANDARD PROCTOR	MODIFIED PROCTOR
CATEGORY 1	CLEAN GRAVEL OR SAND	SW, SP, GW, GP	A1, A3	95	80
CATEGORY 2	SILTY GRAVEL OR SAND	GM, SM, ML, & GC/SC W/LESS THAN 20% PASSING #200 SIEVE	A2, A4	90	85
CATEGORY 3	SILTY CLAY	CL, ML, GC, SC	A5, A6	85	85

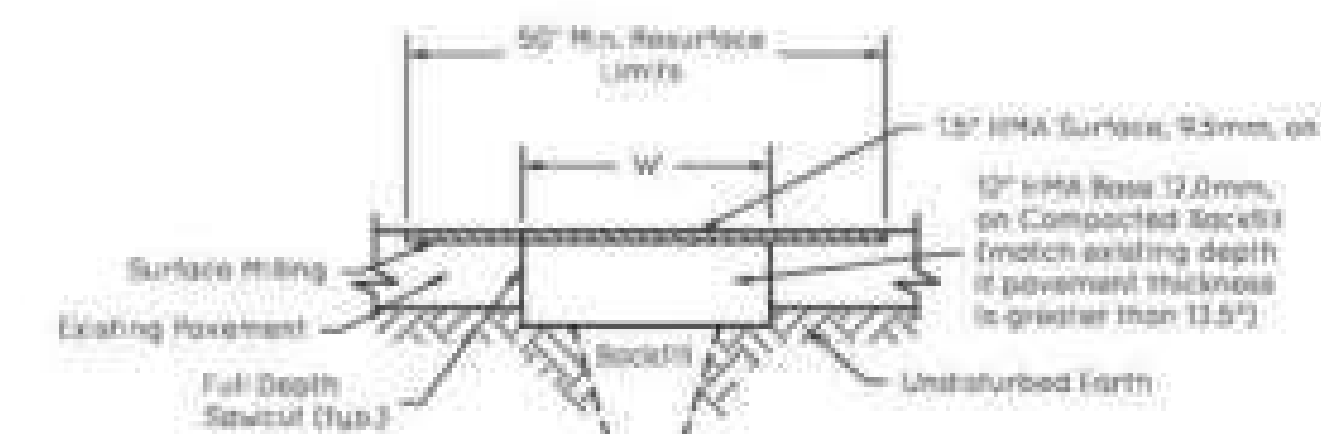
Reference: American Concrete Pipe Association Standard Installation Manual

Notes:

- 1) For backfill purposes, paved shoulders and curbs are considered pavement. If paving is to occur within 30 days of placement of INDOT No. 4 B-Borrow, contractor shall provide City of Fishers with Professional Engineer certified compaction results.
- 2) Depth of bedding material below pipe shall be minimum of 3" or $h_c/24$, whichever is greater.
- 3) Native backfill material must be free of aggregate greater than 6" diameter.
- 4) Topsoil material shall be mounded to accommodate settlement.
- 5) Removable flowable backfill shall be required for all open cuts across existing pavement and will also be allowed as a substitute for other backfill requirements.
- 6) Pipe and fittings used in storm sewer construction shall be RCP (AASHTO M179) and meet the fill height and load requirements according to the latest fill height tables of INDOT. Refer to Chapter 4.J of the City of Fishers Stormwater Technical Standards Manual for other approved pipe materials that may be used in commercial parking lots or private, non-paved areas. Any alternative pipe materials shall be in accordance with the requirements of Chapter 4.J, and shall be installed in accordance with manufacturer's specifications.
- 7) A minimum of Class III RCP (D-load 1350 lb/ft²/ft) is required for all pipe within the City of Fishers Right-of-Way, or areas subject to loading. An alternate pipe class (Class IV or V) may be required by the design engineer or Director of Engineering for special pavement loading circumstances.
- 8) For pavement bores, alternative materials will be considered.
- 9) For elliptical or arch pipe installations, see installation specifications from the American Concrete Pipe Association.
- 10) For all excavation work, OSHA approved safety standards shall be followed.

TRENCH BACKFILL DETAILS

Not to Scale



Notes:

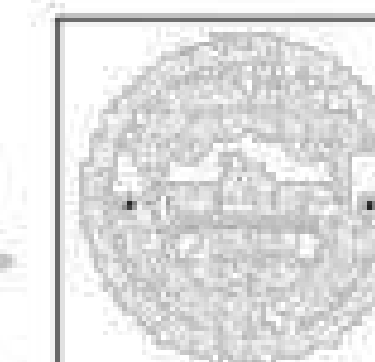
- 1) Sawcuts shall provide a vertical, neat, and uniform edge.
- 2) All materials shall comply with specifications as required by the City of Fishers.
- 3) Contractor shall surface mill (1.5") existing pavement 25 ft. in each direction from trench centerline from face-of-curb to face-of-curb or edge-of-roadway, replace with 1.5" HMA Surface, 9.5mm, and appropriate pavement markings.
- 4) The existing milled surface and HMA Base layer is to be tack coated prior to the placement of new asphalt. The new surface pavement grade shall match the existing surface pavement grade.
- 5) A two (2) inch wide band of crack sealant is to be applied along the joint between the existing and new asphalt surface. Sealant is to be applied in accordance with INDOT Standard Specifications, Section 305.
- 6) Refer to Pavement Restoration Table for W.

HMA PATCH DETAIL

Not to Scale

PAVEMENT RESTORATION TABLE	
UTILITY DEPTH RANGE (FEET)	MAXIMUM TRENCH WIDTH AT FINISHED GRADE, W (FEET)
0 to 5	L.D. +5
5 to 8	L.D. +8
8 to 10	L.D. +10
10 to 12	L.D. +12
12 to 14	L.D. +14
14 to 16	L.D. +16
16 to 18	L.D. +18
18 to 20	L.D. +20

L.D. = Pipe or Conduit Inside Diameter



CITY OF FISHERS
STANDARD CONSTRUCTION DETAILS
 STORM SEWER BACKFILL, SWALE UNDERDRAIN, EXCAVATION DETAILS AND NOTES

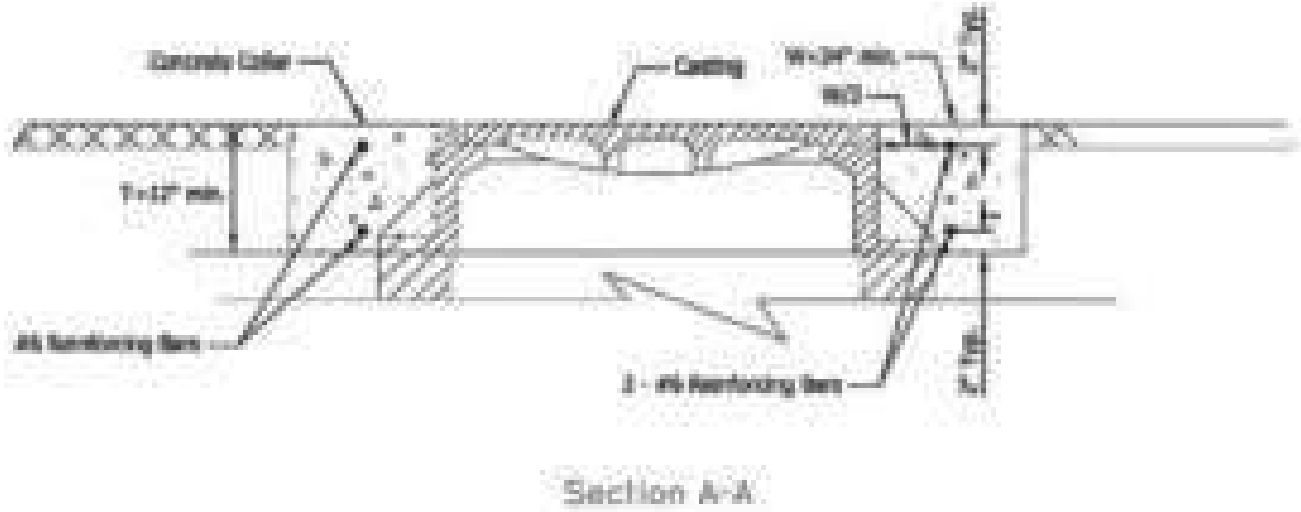
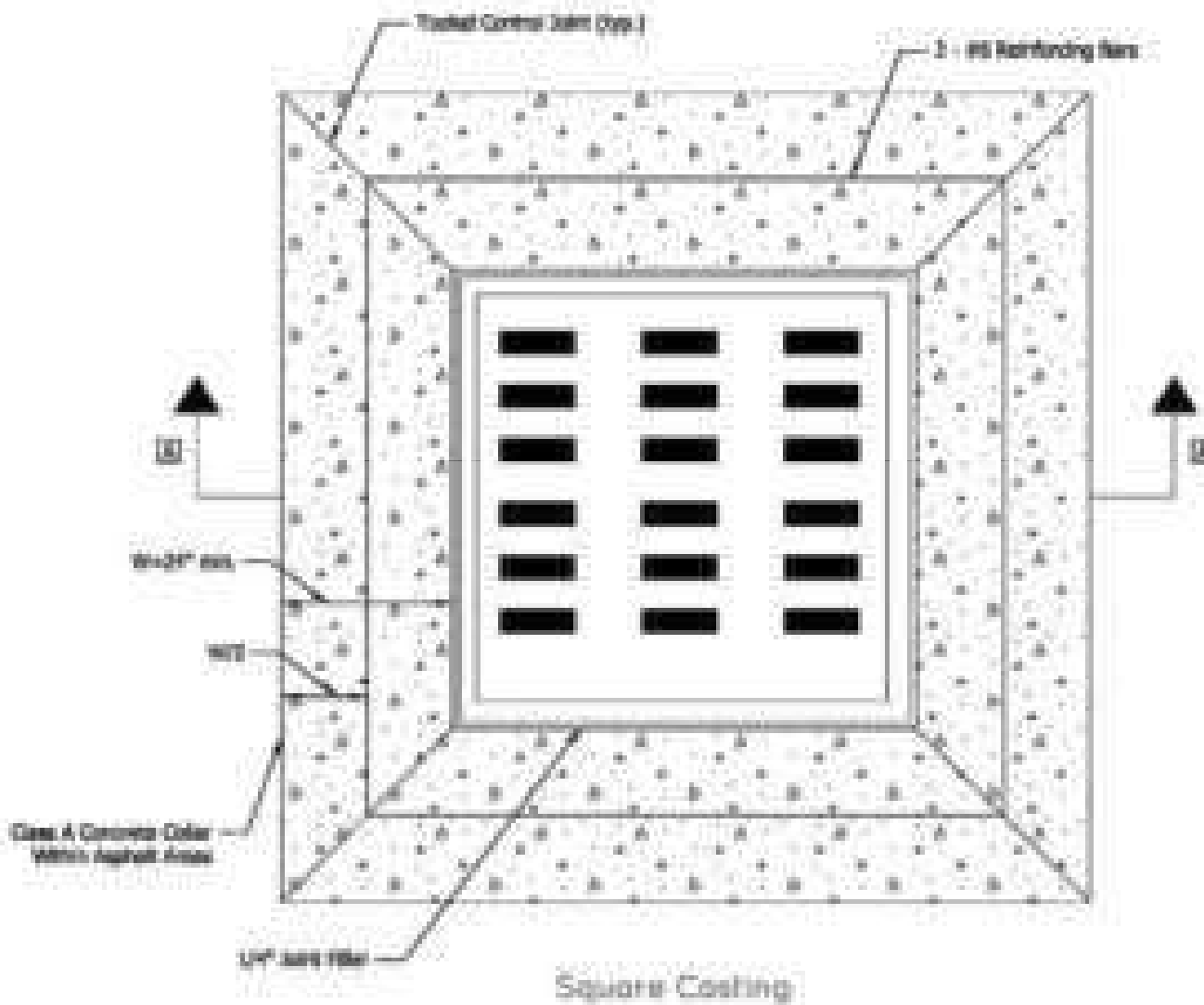
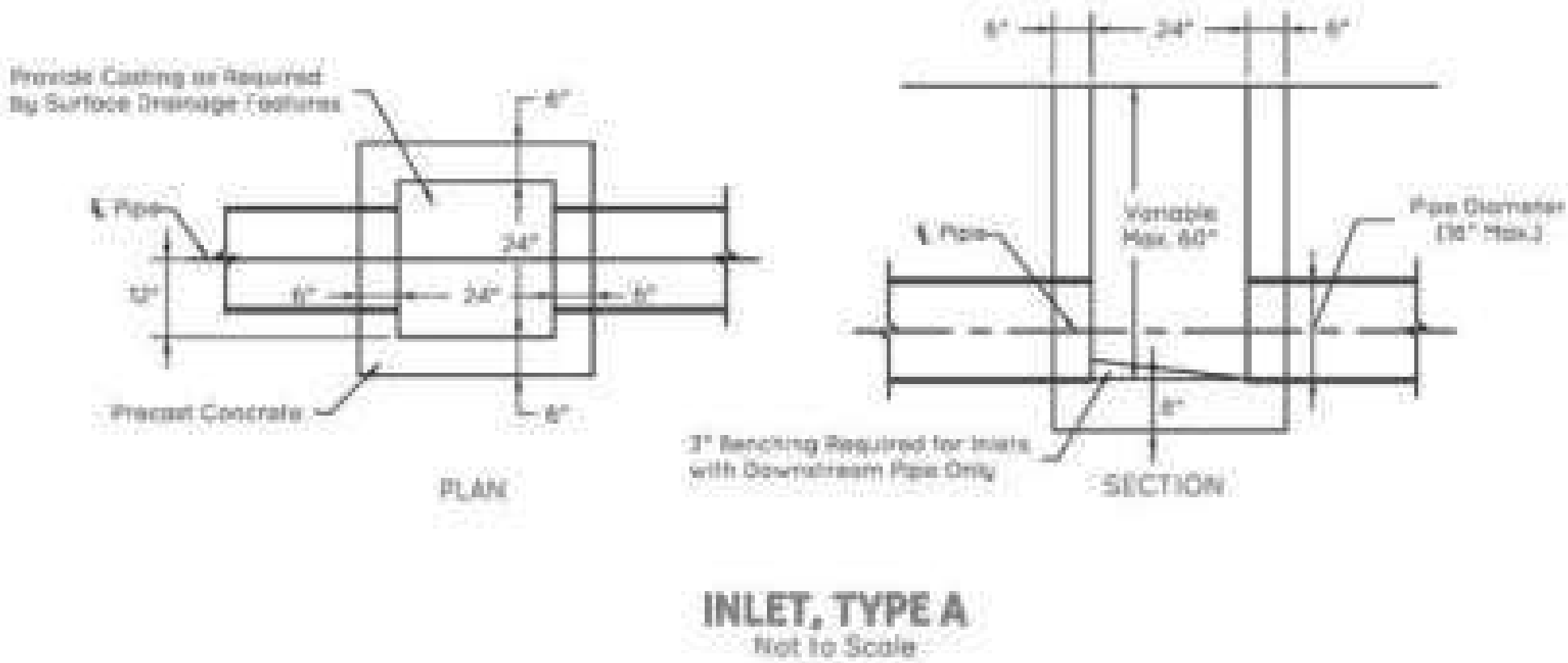
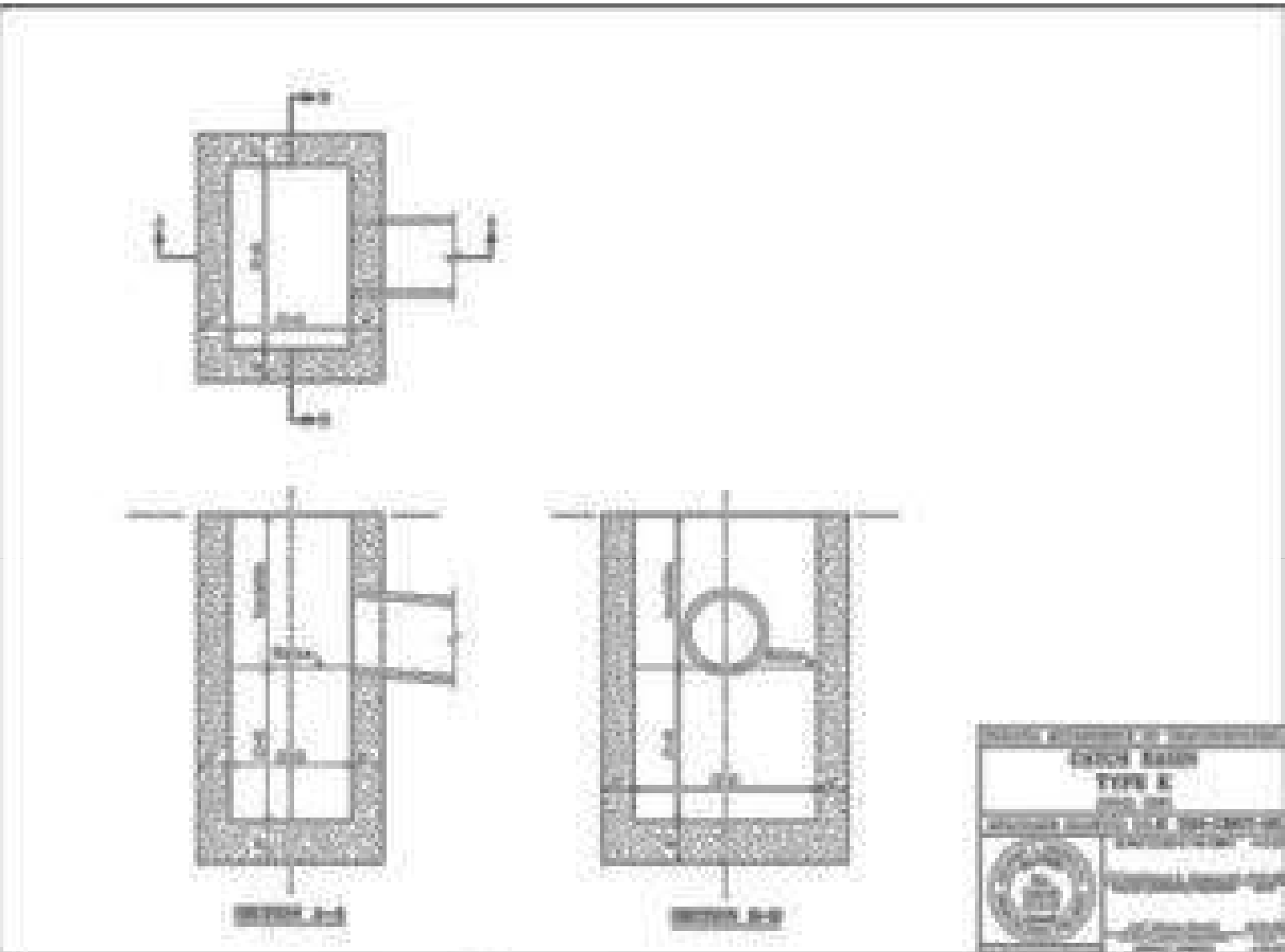
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NOTES

- 1) Inlet boxes shall not extend into the pavement section beyond the width of the wall thickness which shall be a maximum of 6 inches. Square or rectangular structures shall be utilized for all pipe connections along the curb line. The maximum inlet box size shall be limited to 24"x36". Mainline pipe shall be defined as all pipe greater than 15" in diameter. No mainline pipe shall be allowed in direct connection to the inlet box. Details and manufacturer shop drawings shall be provided for all pipe connections less than 90 degrees to the box edge. Field changes to structures shall be cut or cored. Round structures shall only be allowed for areas outside of the curb line and outside of road section pavement.
- 2) 24"x24" inlet boxes shall be limited to depths of 5 feet. Inlet boxes greater than 5 feet in depth shall be 24"x36" (inside dimensions), or greater, and include steps.
- 3) The downstream most structure that collects runoff from within the Right-of-Way shall be surped (2 feet) prior to the detention basin and is required to be placed within 15 feet of the curb, where practical, and equipped with a snout to catch floatables.
- 4) The contractor shall use precast inlets or catch basins, unless otherwise approved by the Director of Engineering, that are in accordance with INDOT Standard Specifications.
- 5) A 6" cushion of INDOT No. 8 crushed stone shall be required when the precast bottom section is used.
- 6) If a precast inlet, catch basin, or manhole is used and the adjoining pipes are field connected directly to the precast unit, the connection shall be made using a Class "A" concrete collar of 6" minimum longitudinal and radial thickness. Brick should be used as a filler for concrete patching for inlets that are not precast.
- 7) Waterproofing material shall conform to AASHTO M115 and INDOT Standard Specifications.
- 8) All curb inlets and catch basins shall be equipped for underdrains.
- 9) All structures receiving sub-surface drain (SSD) shall have both ports core drilled. T or Y blind connections are not allowed.
- 10) Expansion joints are required around castings for all structures located within PCCP, PCC sidewalk, PCC multi-use paths, or concrete curb and/or gutter.
- 11) All castings shall be checked to meet inlet design and ensure compatibility with curb specified, swales, ponds, etc. All castings shall be in accordance with the Compatibility of Inlet Structures and Castings Table, this sheet, unless otherwise approved by the Director of Engineering.
- 12) All inlet castings shall contain a "NO DUMPING, DRAINS TO WATERWAY" or equivalent clean water message to educate and warn against illegal dumping. Casting openings should be grated or otherwise designed to limit floatables and debris from entering the inlet box.
- 13) No inlet castings shall be installed within wheel paths, unless otherwise approved by the Director of Engineering.

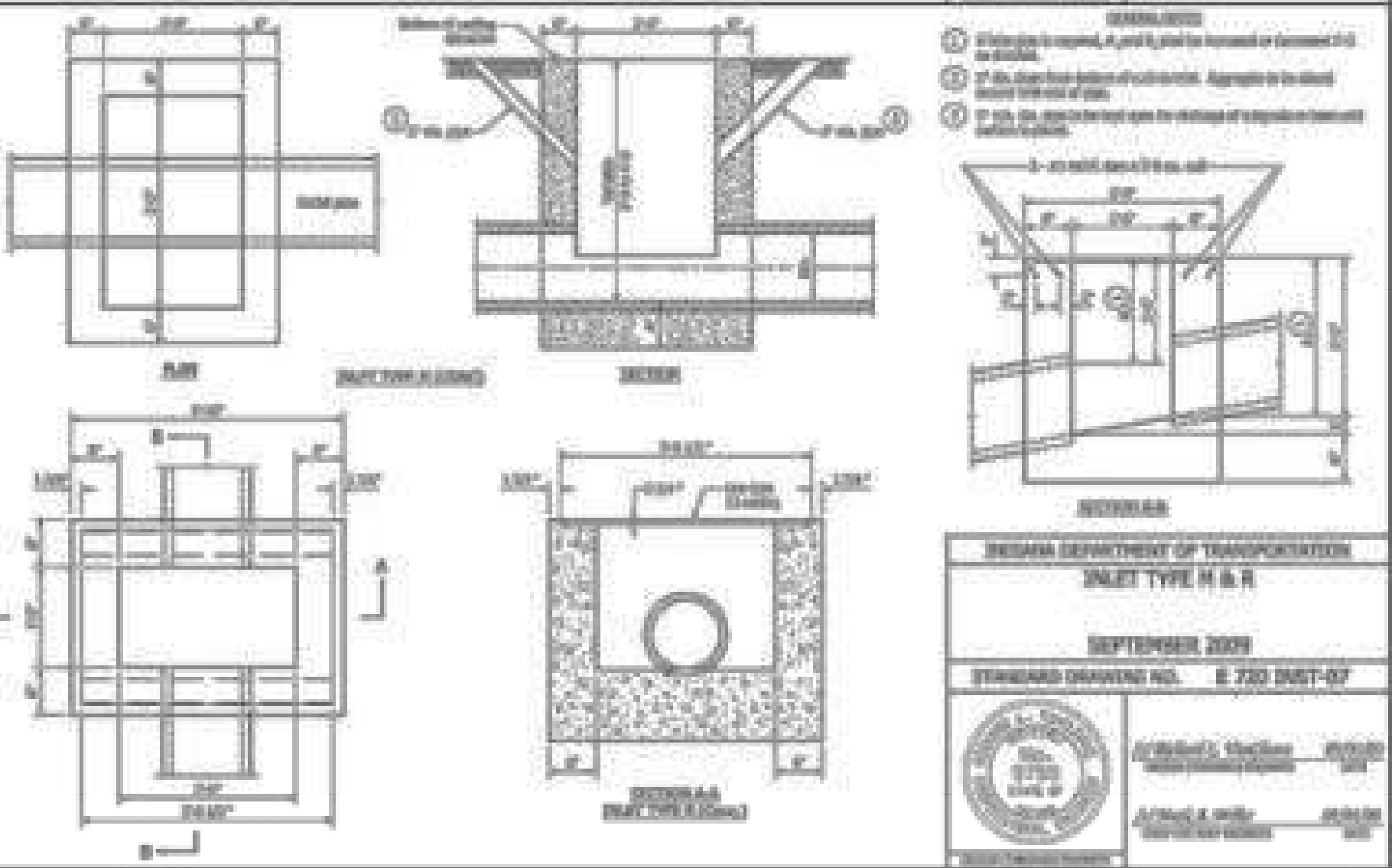
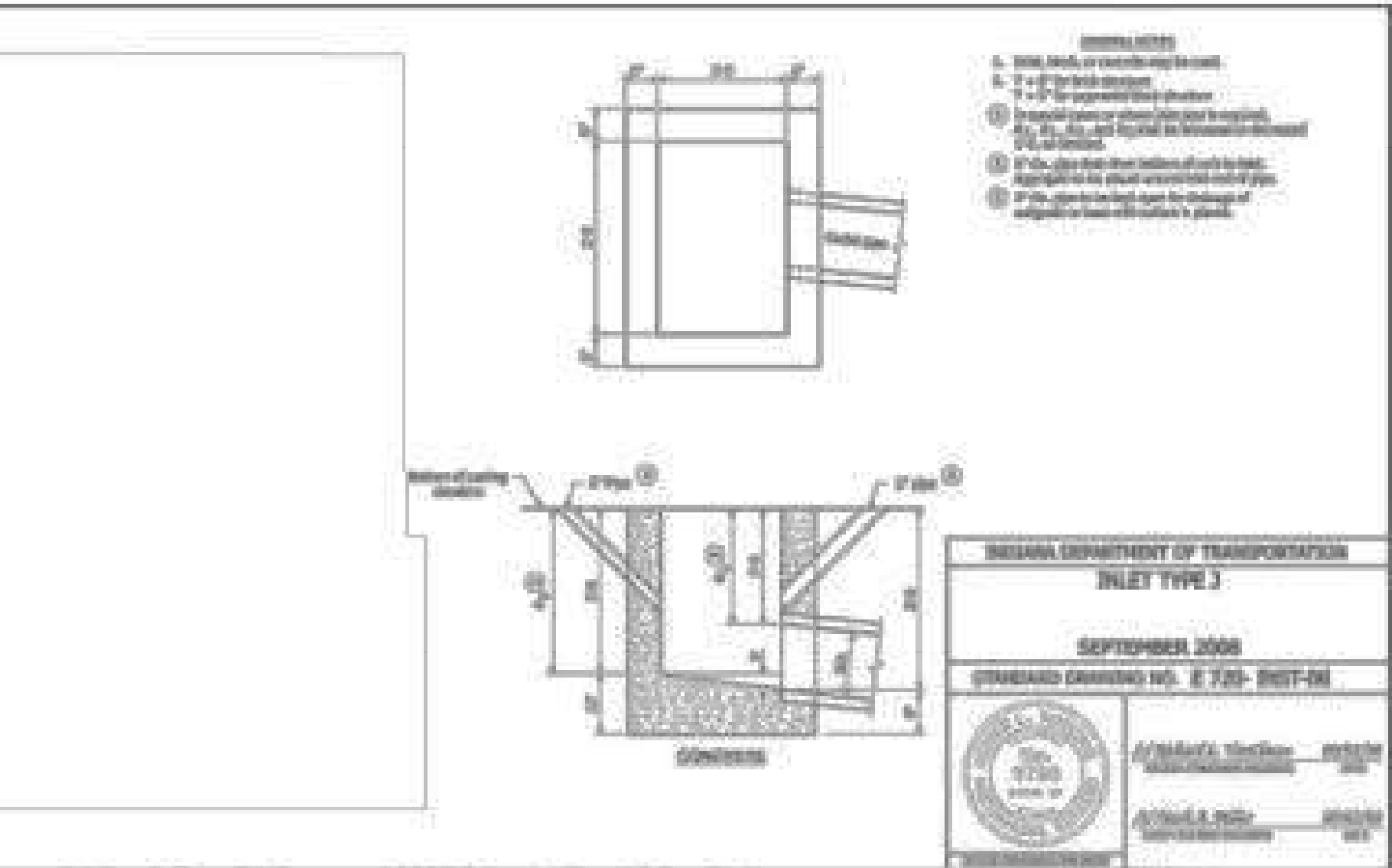
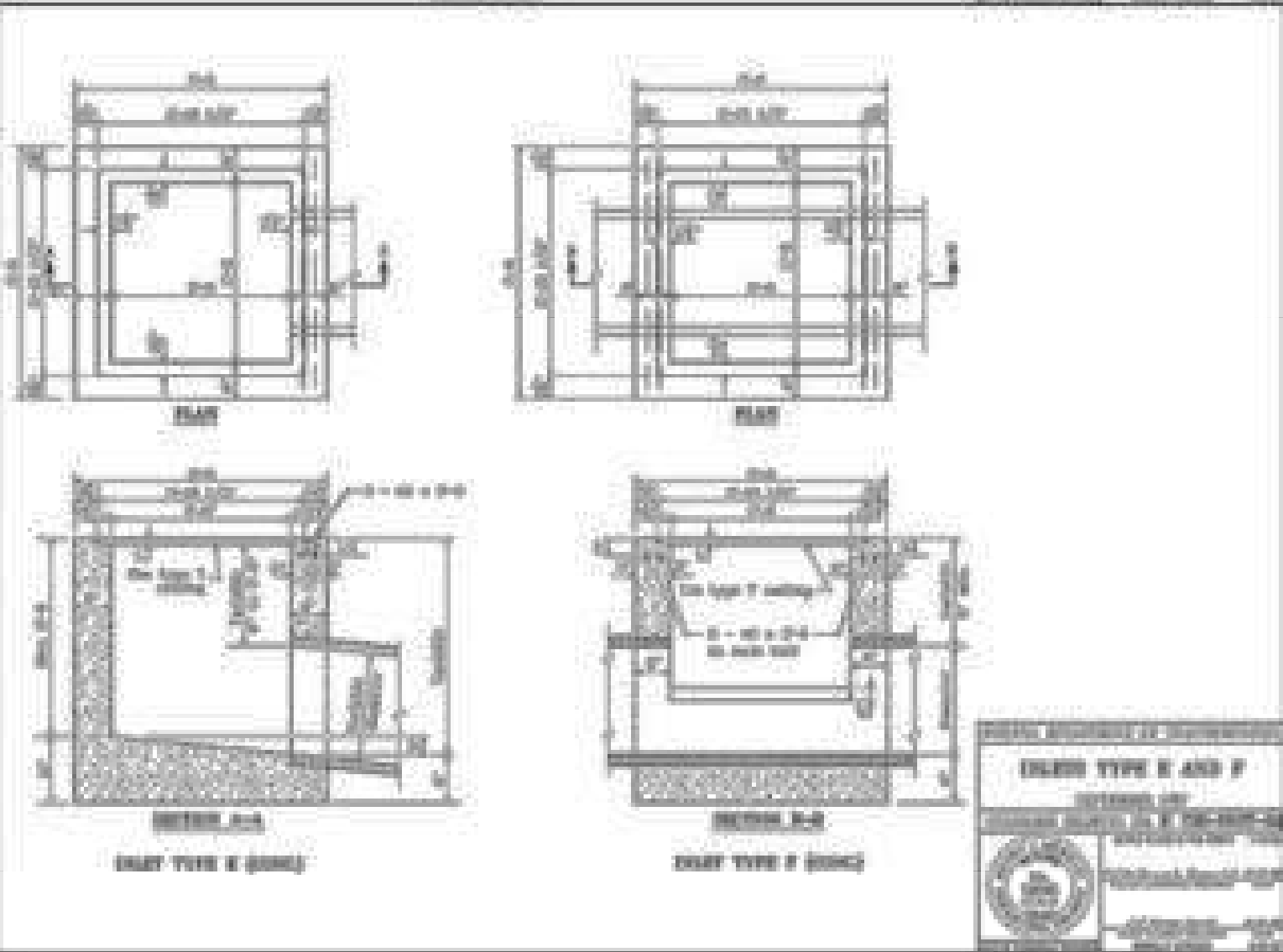
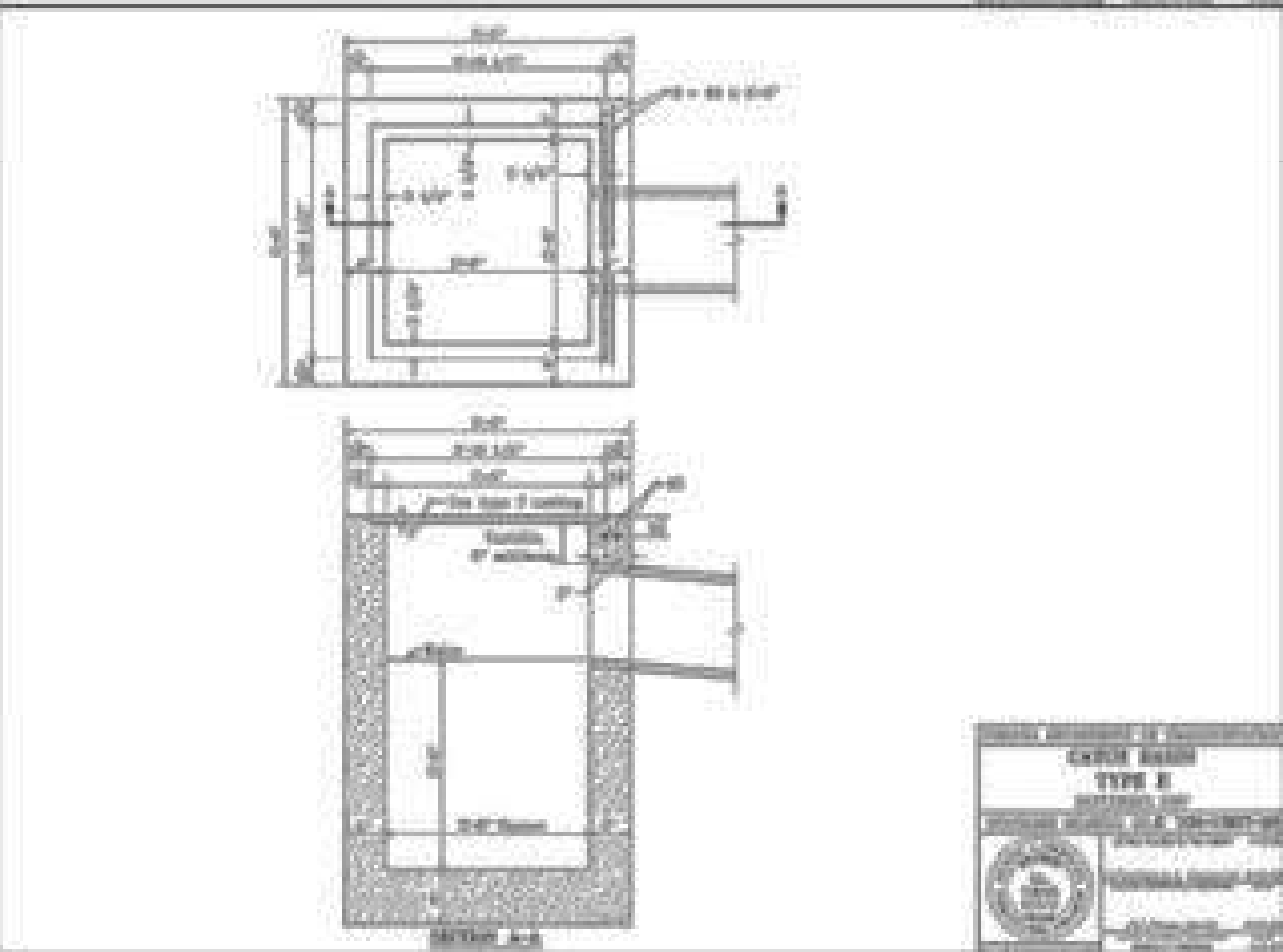
COMPATIBILITY OF INLET STRUCTURES AND CASTINGS																
INLET TYPE	INDOT CASTING TYPES					NEENAH CASTING TYPES					EAST JORDAN IRON WORKS CASTING TYPES					
	2	5	7	6	10	R-3267-10V	R-3405-A	R-3501-TR	R-3501-TL	R-4215-C	5250	6610	7030 w/ M2 Grate & T1 Back	7495M1	7495M2	7495M4
A	X	X		X			X				X					
E			X							X		X				
F			X							X		X				
J					X	X		X	X				X	X	X	X
M					X	X		X	X				X	X	X	X



CONCRETE COLLAR FOR SQUARE CASTINGS DETAIL
Not to Scale



INLET LID CASTING DETAIL
Not to Scale



1/24/2021



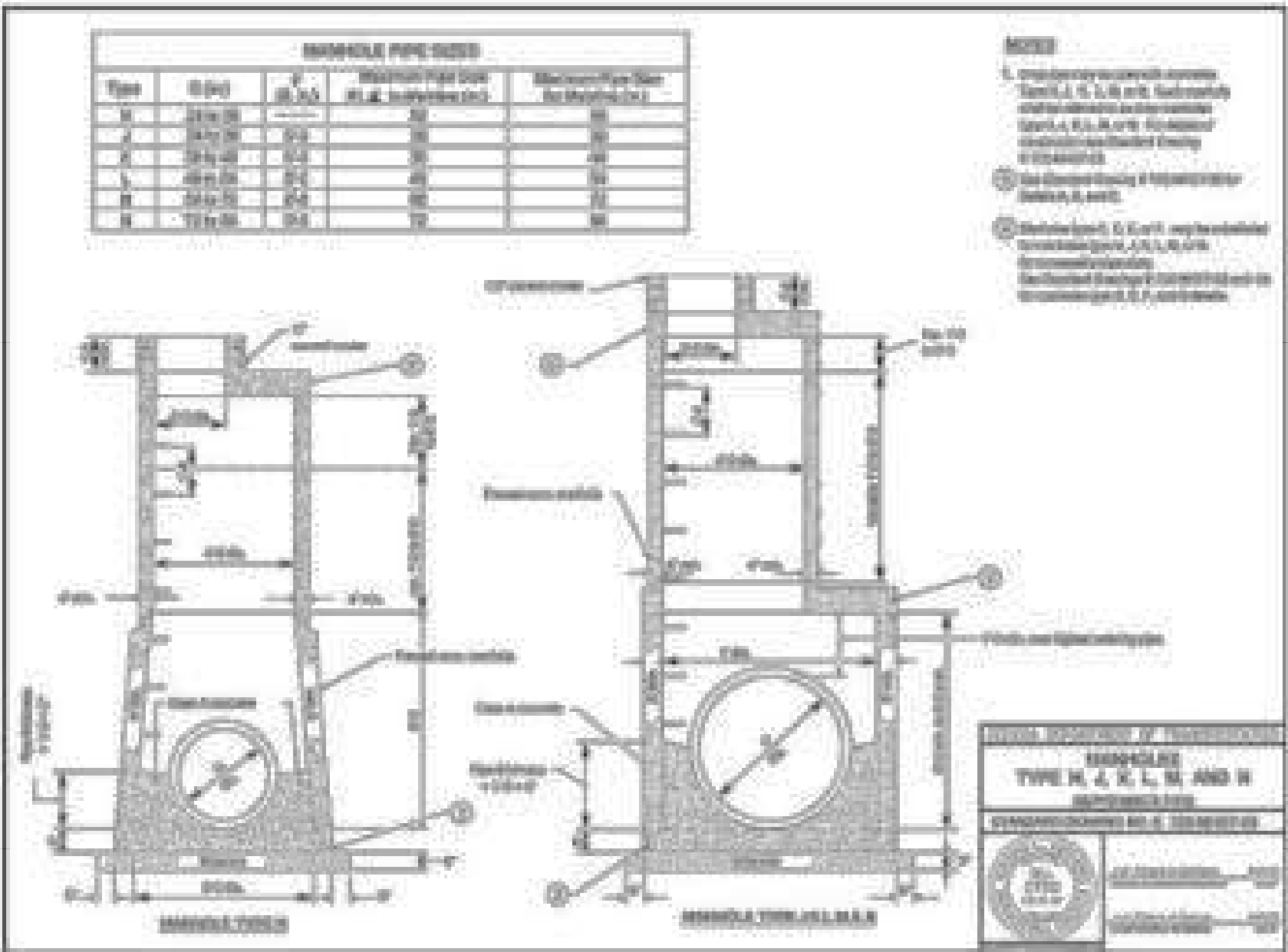
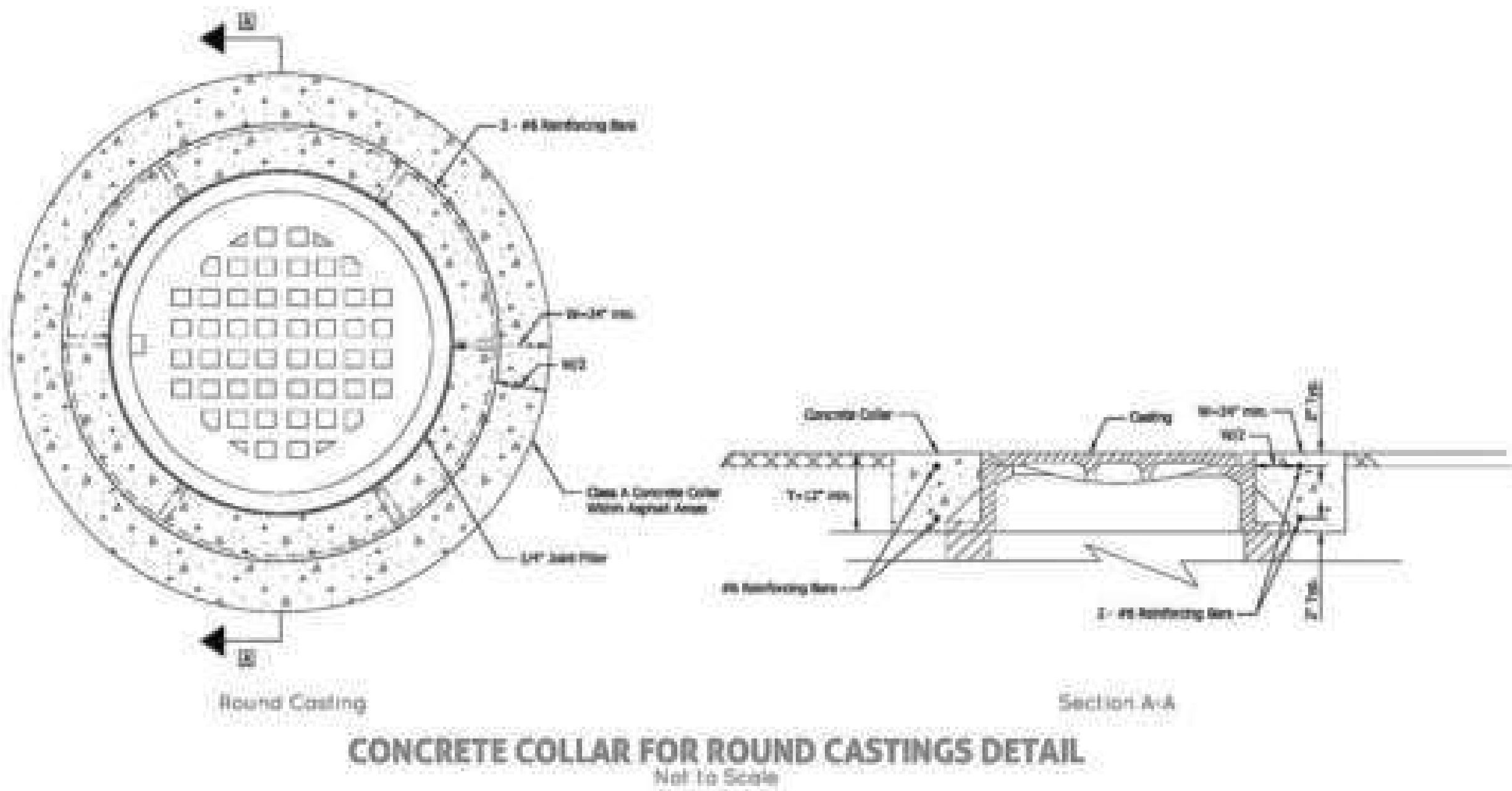
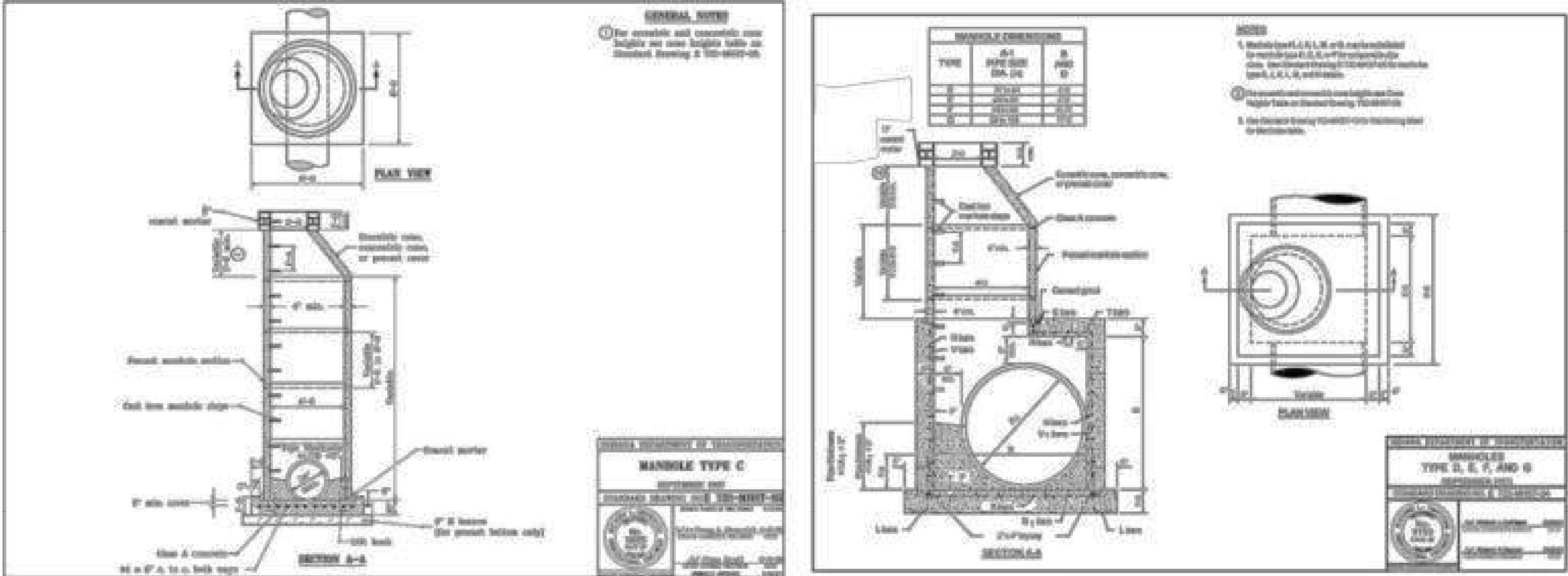
CITY OF FISHERS
STANDARD CONSTRUCTION DETAILS
STORM SEWER INLET STRUCTURE
DETAILS AND NOTES

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NOTES

- 1) All precast manhole materials shall conform to ASTM C-478 and INDOT Standard Specifications (min. sq. in. of reinforcing steel per linear foot of barrel shall be 0.12).
- 2) A 6" cushion of INDOT No. 8 crushed stone shall be required when the precast bottom section is used.
- 3) Joints between sections of precast manholes shall be in accordance with ASTM C-443.
- 4) If the contractor uses a precast manhole and the adjoining pipes are field connected directly to the precast unit, the connection shall be made using a Class "A" concrete collar of 6" minimum longitudinal and radial thickness. Brick should be used as a filler for concrete patching for manholes that are not precast.
- 5) Drop pipe may be used with Manhole, Type D, E, F, or G and referred to as Drop Manhole, Type D, E, F, or G as approved by the Director of Engineering.
- 6) Bottom shall be constructed of precast bottom section or Class "A" concrete formed in place.
- 7) Benchwalls shall be Class "A" concrete.
- 8) Waterproofing material shall conform to AASHTO M15 and INDOT Standard Specifications.
- 9) Flat precast covers shall be used where headroom is limited.
- 10) The downstream most structure that collects runoff from within the Right-of-Way shall be sumped (2 feet) prior to the detention basin and is required to be placed within 15 feet of the curb, where practical, and equipped with a snout to catch floatables.
- 11) All structures receiving sub-surface drain (SSD) shall have both ports core drilled. T or Y blind connections are not allowed.
- 12) Expansion joints around castings are required at all structures located within PCCP, PCC sidewalk, PCC multi-use paths, or concrete curb and/or gutter.
- 13) All manhole castings shall be checked to meet inlet grate design and ensure compatibility with curb specified, swales, ponds, etc. in accordance with the Compatibility of Manhole Structures and Castings Table, this sheet, unless otherwise approved by the Director of Engineering.
- 14) All manhole castings shall contain a "NO DUMPING, DRAINS TO WATERWAY" or equivalent clean water message to educate and warn against illegal dumping. Casting openings should be grouted or otherwise designed to limit floatables and debris from entering the manhole.
- 15) All manhole steps shall conform to INDOT Standard Drawing 720-MHST-09.
- 16) No manhole castings shall be installed within wheel paths, unless otherwise approved by the Director of Engineering.

MANHOLE TYPE	INDOT CASTING TYPES			NEENAH CASTING TYPES			EAST JORDAN (IRON WORKS) CASTING TYPES		
	2	4	5	R-2502 D	R-4342	R-1772	1022 w/ Type A Lid	1022 w/ M1 or M3 Grate	5489
C	X	X	X	X	X	X	X	X	X
H	X	X	X	X	X	X	X	X	X
J	X	X	X	X	X	X	X	X	X
K	X	X	X	X	X	X	X	X	X
L	X	X	X	X	X	X	X	X	X
M	X	X	X	X	X	X	X	X	X
N	X	X	X	X	X	X	X	X	X



Signature



CITY OF FISHERS
STANDARD CONSTRUCTION DETAILS
STORM SEWER MANHOLE
STRUCTURE DETAILS AND NOTES

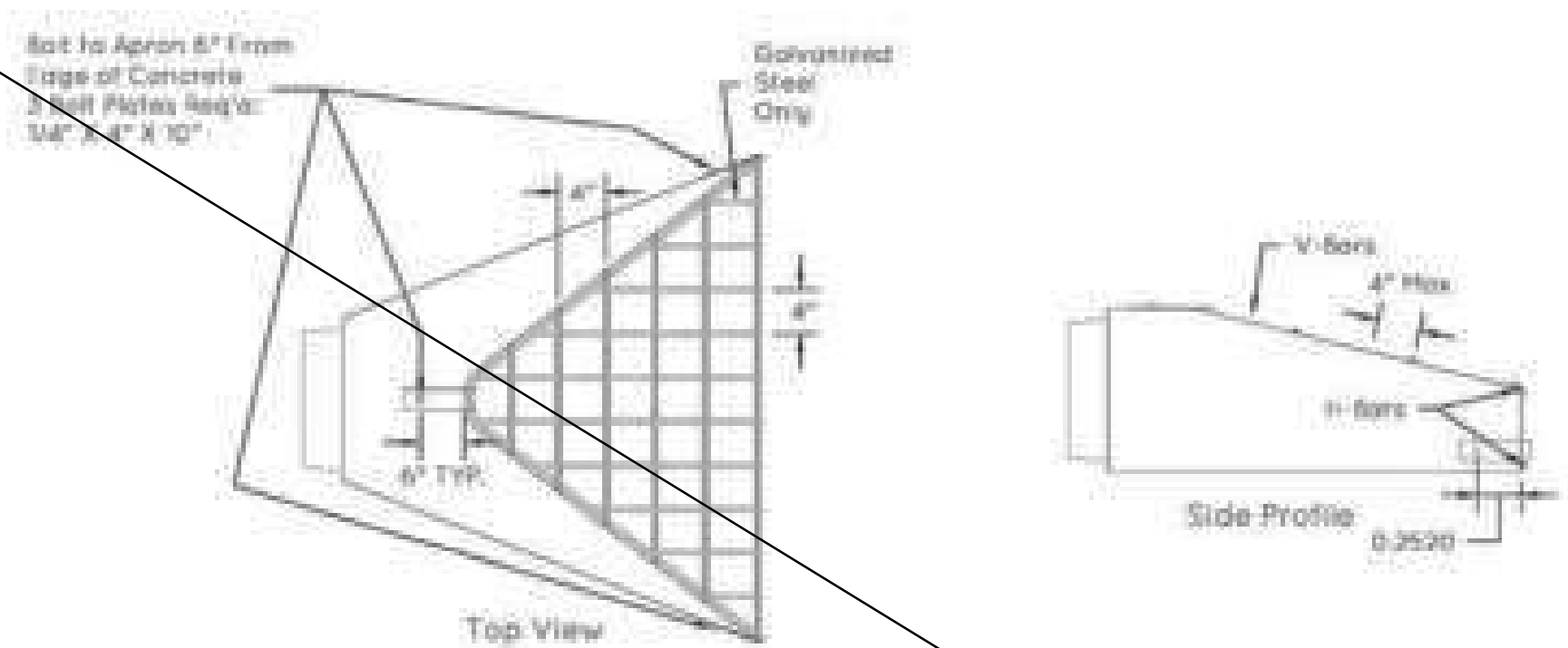
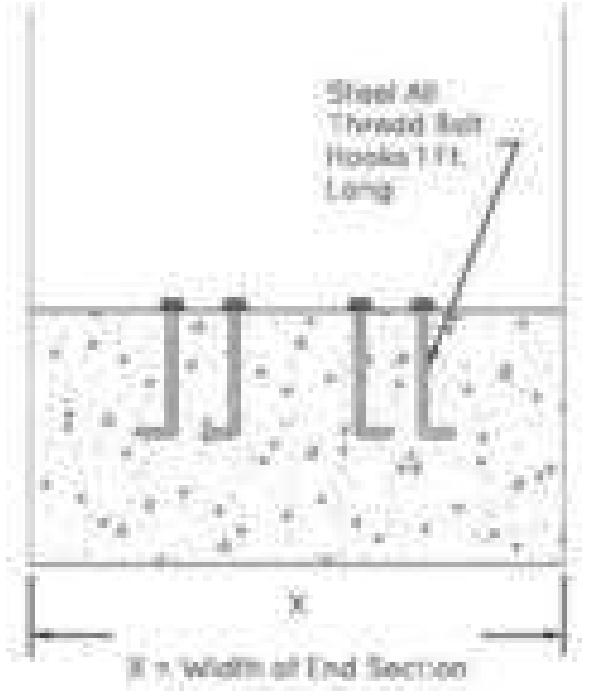
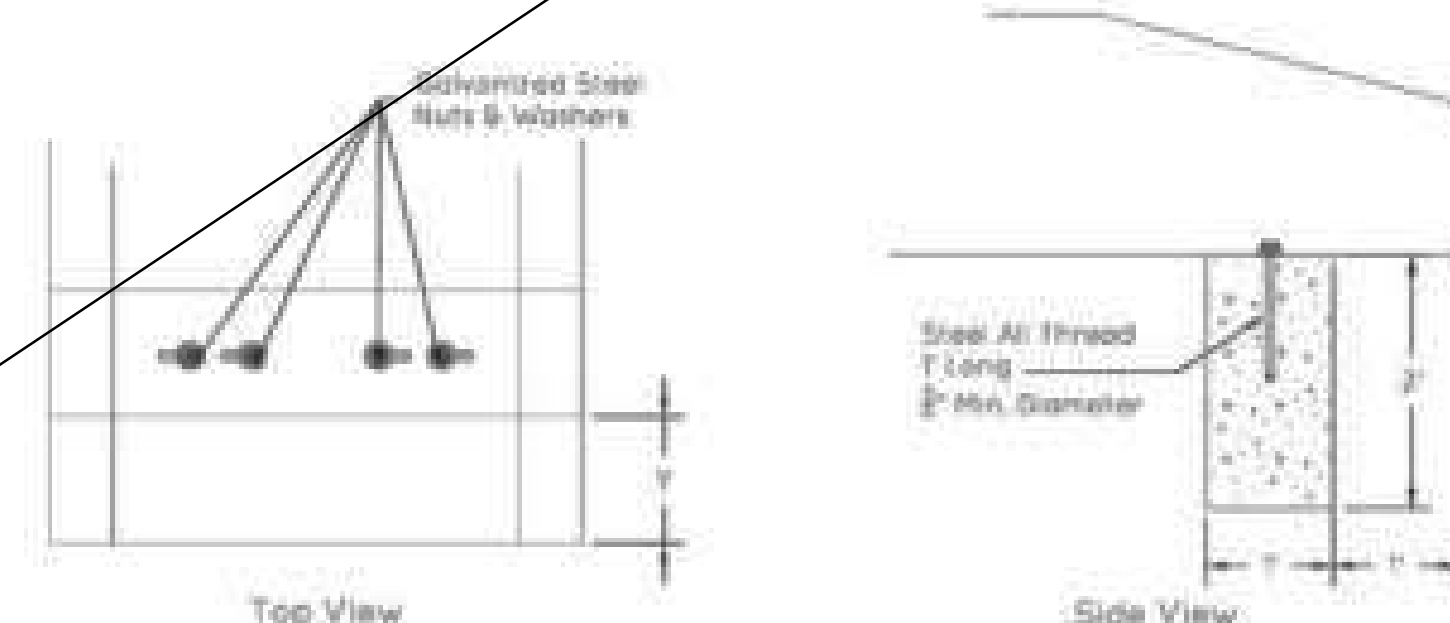
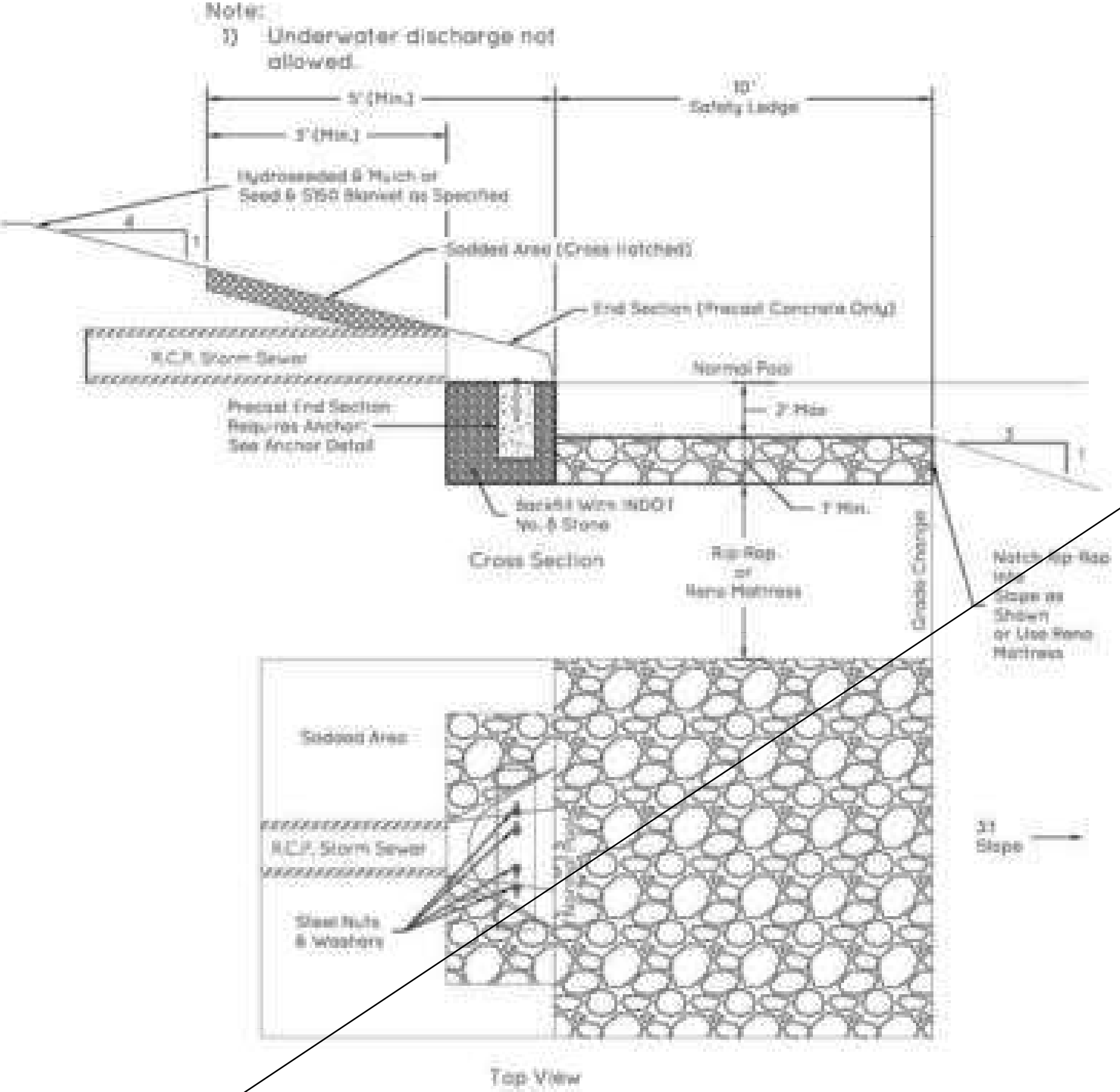
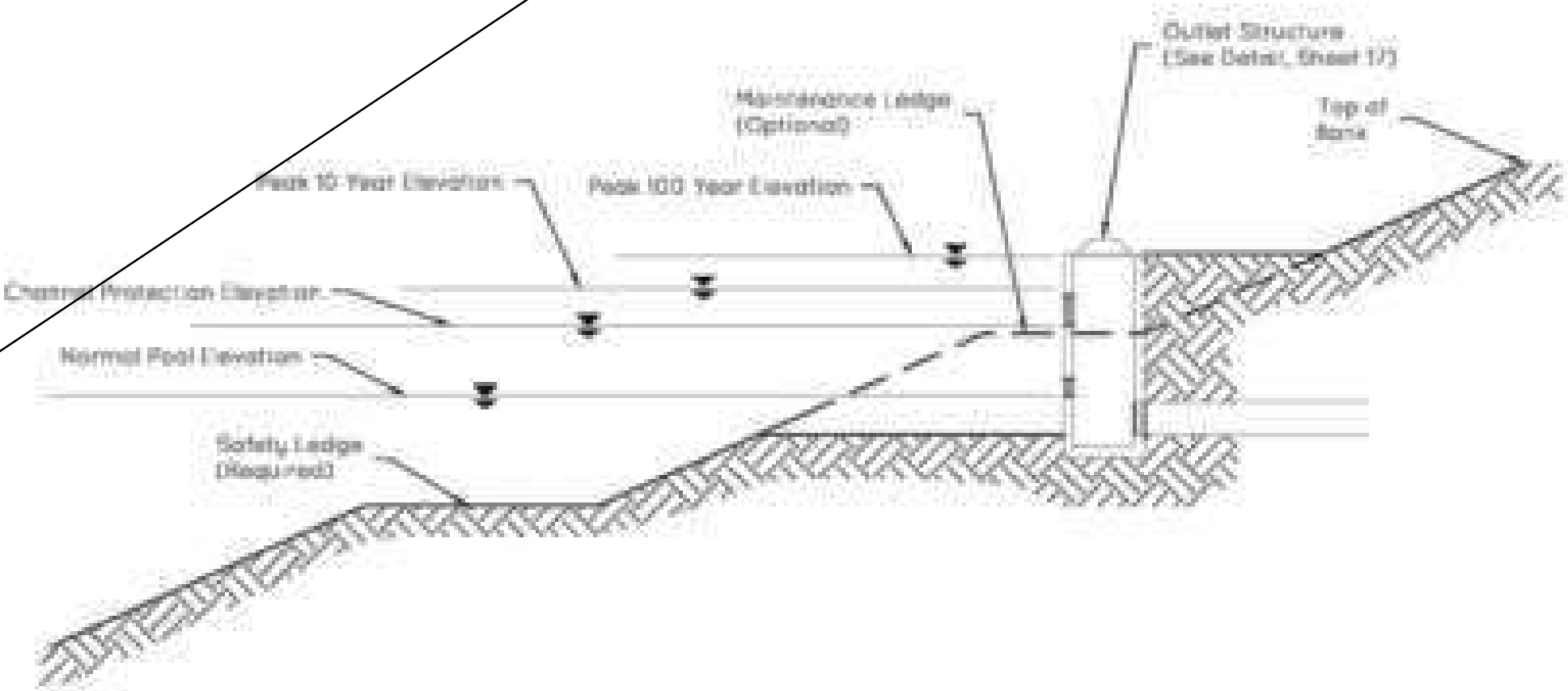
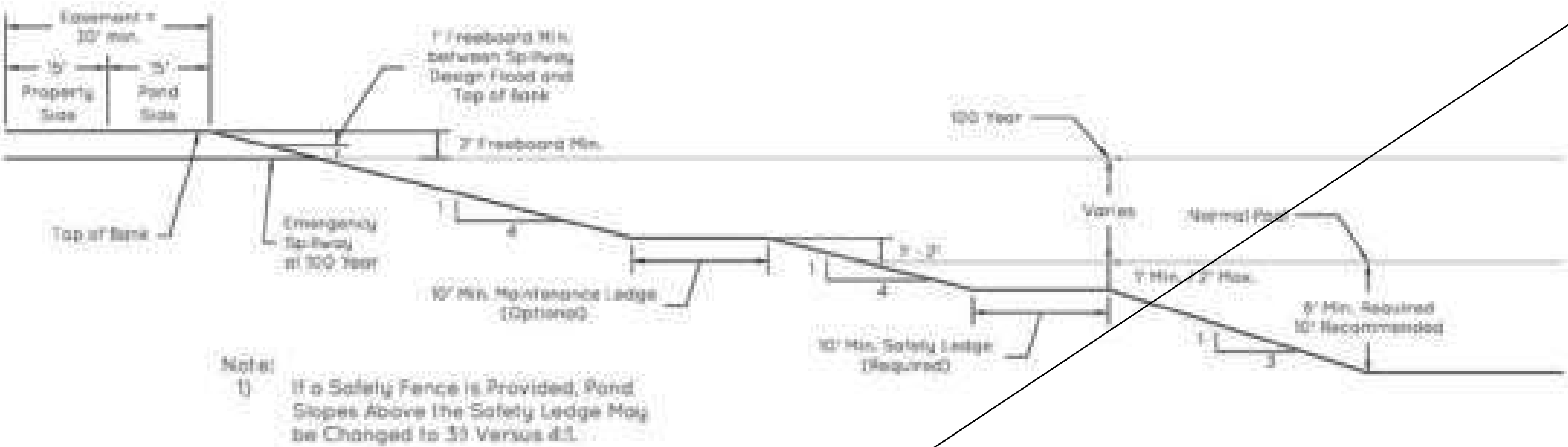
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GENERAL WET-BOTTOM DETENTION BASIN NOTES

- 1) All detention basins shall be designed in accordance with Chapters 3, 6 and 6 of the City of Fishers Stormwater Technical Standards Manual (STSM).
- 2) Per Section 6.3.4 of the STSM, all detention facilities shall be separated from edge of pavement of parking lots by a minimum of 50 feet and a minimum of 150 feet from a roadway, unless structural measures, such as guardrails, berms, or other physical barriers are provided that prevent passage of a vehicle. See Guardrail Details, Sheets 9 - 12.
- 3) Regardless of physical barriers, minimum separation of all stormwater detention facilities shall be according to the Minimum Detention Pond Setbacks in Table 1.
- 4) The design of all wet-bottom detention facilities should include methods to prevent pond stagnation, including but not limited to, surface or sub-surface aeration (diffusers) or destratification facilities.

Table 1. Detention Facility Minimum Separations

FUNCTIONAL CLASSIFICATION OF ROADWAY	MINIMUM DETENTION POND SETBACK
Principal Arterial	50 Ft. From Right-of-Way to the Top of Bank -Or- 50 Ft. From Right-Of-Way to Maximum 100-Year Elevation, Whichever is Greater.
Minor Arterial	
Burst Major Collector	
Burst Minor Collector	
Urban Collector	
Local	
Private Roadways	50 Ft. From Centerline of Roadway to the Top of Bank -Or- 50 Ft. From Centerline of Roadway to Maximum 100-Year Elevation, Whichever is Greater.



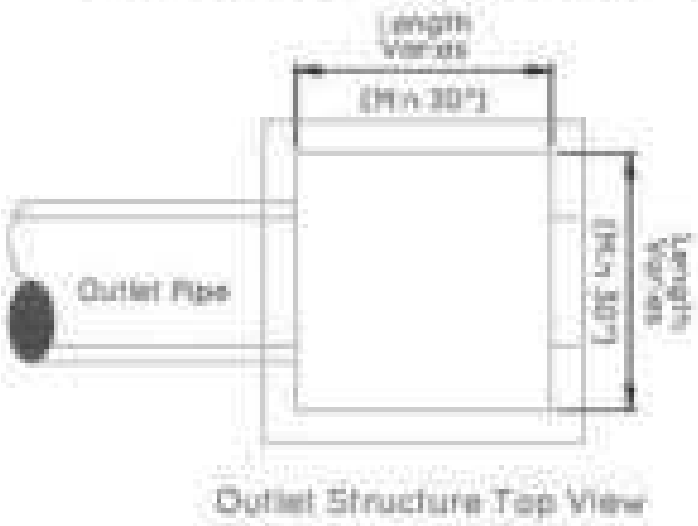
- Notes:
- 1) Trash guards should be galvanized steel only.
- 2) To be placed on upstream end of detention basin outlet pipe only.

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	CITY OF FISHERS	SHEET
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	DETENTION BASIN & END SECTION DETAILS	of 29

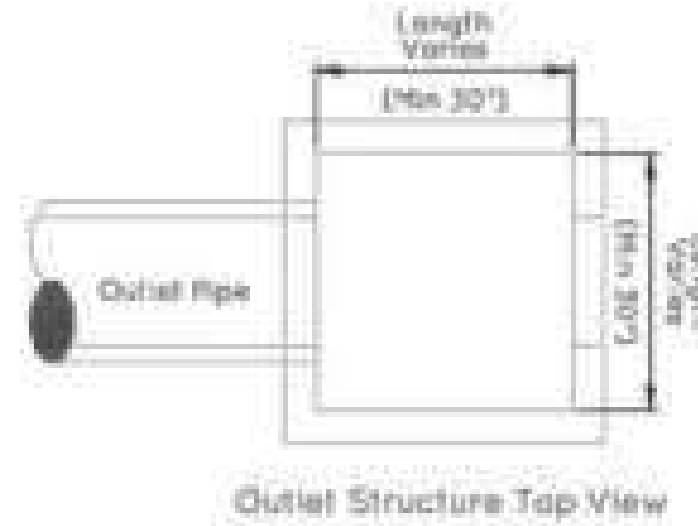
GENERAL OUTLET STRUCTURE NOTES

- 1) Use of a circular or rectangular orifice is at the discretion of the designer. The minimum opening height or diameter shall be 6", unless written approval of a smaller opening is provided during the stormwater review process. Openings shall be consolidated as much as is practicable while meeting the remaining requirements to reduce the potential for clogging. The minimum 6" dimension requirement does not apply to CPV or WQ orifice sizing. Coordinate with City of Fishers for minimum CPV / WQ orifice sizing.
- 2) If an overland emergency flow route cannot be created, the structure shall be sized to allow the open casting and outlet pipe to serve as a drop-inlet capable of carrying 125% of the peak inflow to the detention pond.
- 3) The maximum opening size for trash racks shall be 3" for outlets less than 24" in diameter or smaller than a 24" x 24" rectangle. Larger outlets shall have a 6" opening size.



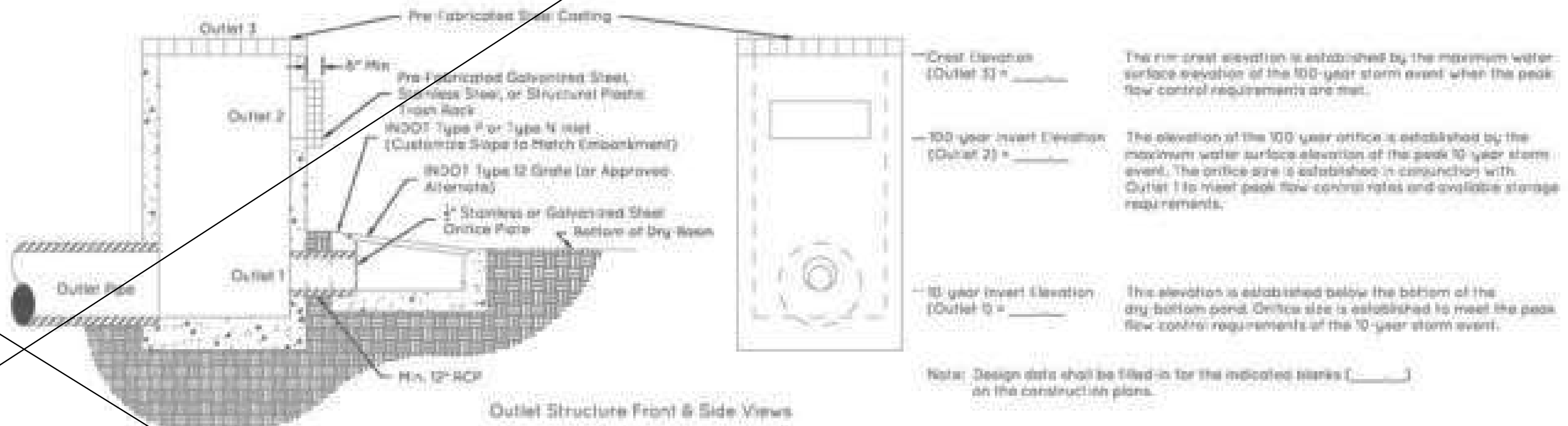
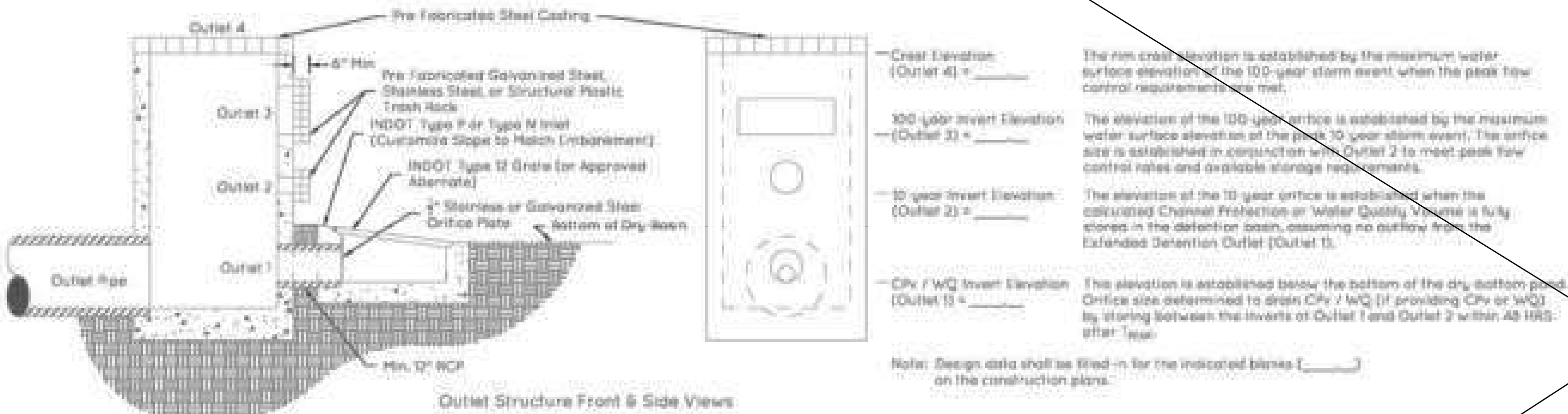
DESCRIPTION OF OUTLETS

- Outlet 1: Extended Detention / Channel Protection Outlet**
The purpose of this outlet is to detain the flow and provide for settlement of suspended solids and to attenuate the outflow from the detention basin to meet the water quality or channel protection requirements of Ch. 8 of the STSM.
- Outlet 2: Peak Flow Control Orifice (10-year)**
The purpose of this outlet is to restrict the flow leaving the detention pond when the volume of runoff exceeds the water quality or channel protection volume. This outlet is typically used to control the release of runoff for events between the 2-year and 10-year events to meet peak flow control requirements. This outlet has an invert elevation at the elevation of when the water quality or channel protection is fully stored assuming no outflow from Outlet 1.
- Outlet 3: Peak Flow Control Orifice (100-year)**
The purpose of this outlet is to supplement Outlet 2 when the 100-year peak flow control requirements cannot be met using a single peak flow control orifice. This outlet typically has an invert elevation above the 10-year maximum water surface elevation.
- Outlet 4: Emergency Overflow**
The purpose of this outlet is to allow the outlet to convey flow downstream even if the peak flow control orifice(s) are completely blocked. It may also serve as a part of the emergency flood route in special circumstances.



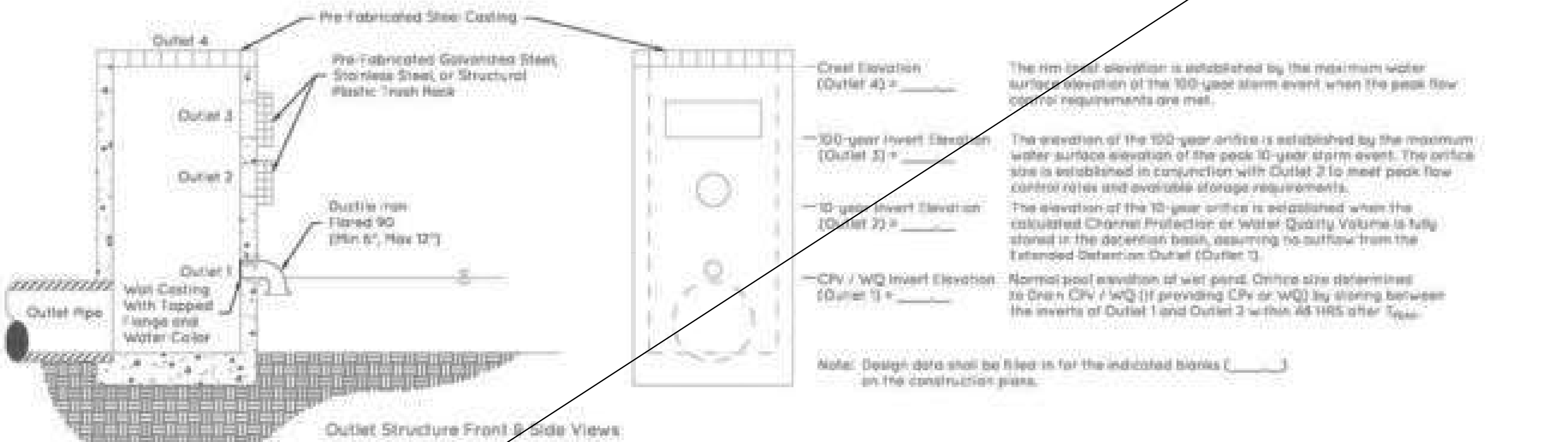
DESCRIPTION OF OUTLETS

- Outlet 1: Peak Flow Control Orifice (10-year)**
The purpose of this outlet is to control the release of runoff for events between the 2-year and 10-year storm events to meet peak flow control requirements per Ch. 3 and 6 of the STSM. This outlet has an invert elevation at the normal pool of a wet pond or below the bottom of a dry-bottom facility.
- Outlet 2: Peak Flow Control Orifice (100-year)**
The purpose of this outlet is to supplement Outlet 1 when the 100-year peak flow control requirements cannot be met using a single peak flow control orifice. This outlet typically has an invert elevation above the 10-year maximum water surface elevation.
- Outlet 3: Emergency Overflow**
The purpose of this outlet is to allow the outlet to convey flow downstream even if the peak flow control orifice(s) are completely blocked. It may also serve as a part of the emergency flood route in special circumstances.



DRY-BOTTOM DETENTION BASIN OUTLET DETAILS -
COMBINED PEAK FLOW AND CHANNEL PROTECTION / WATER QUALITY BASIN

Not to Scale

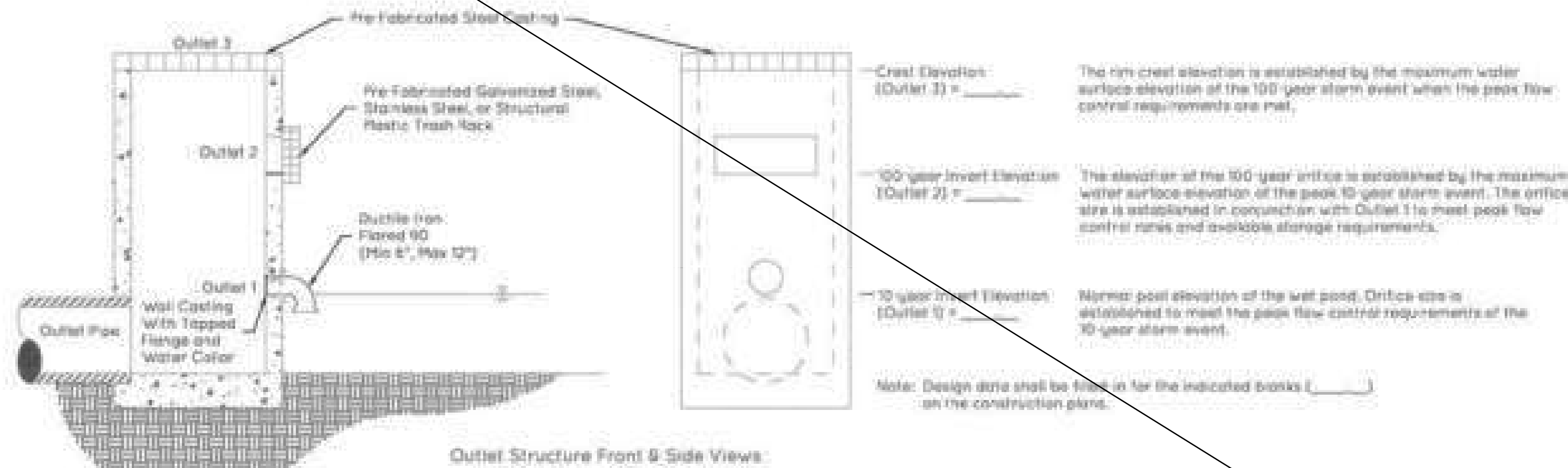


WET-BOTTOM DETENTION BASIN OUTLET DETAILS -
COMBINED PEAK FLOW AND CHANNEL PROTECTION / WATER QUALITY BASIN

Not to Scale

DRY-BOTTOM DETENTION BASIN OUTLET DETAILS -
PEAK FLOW CONTROL FACILITY (SINGLE USE)

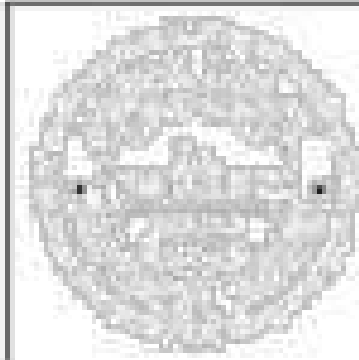
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WET-BOTTOM DETENTION BASIN OUTLET DETAILS -
PEAK FLOW CONTROL FACILITY (SINGLE USE)

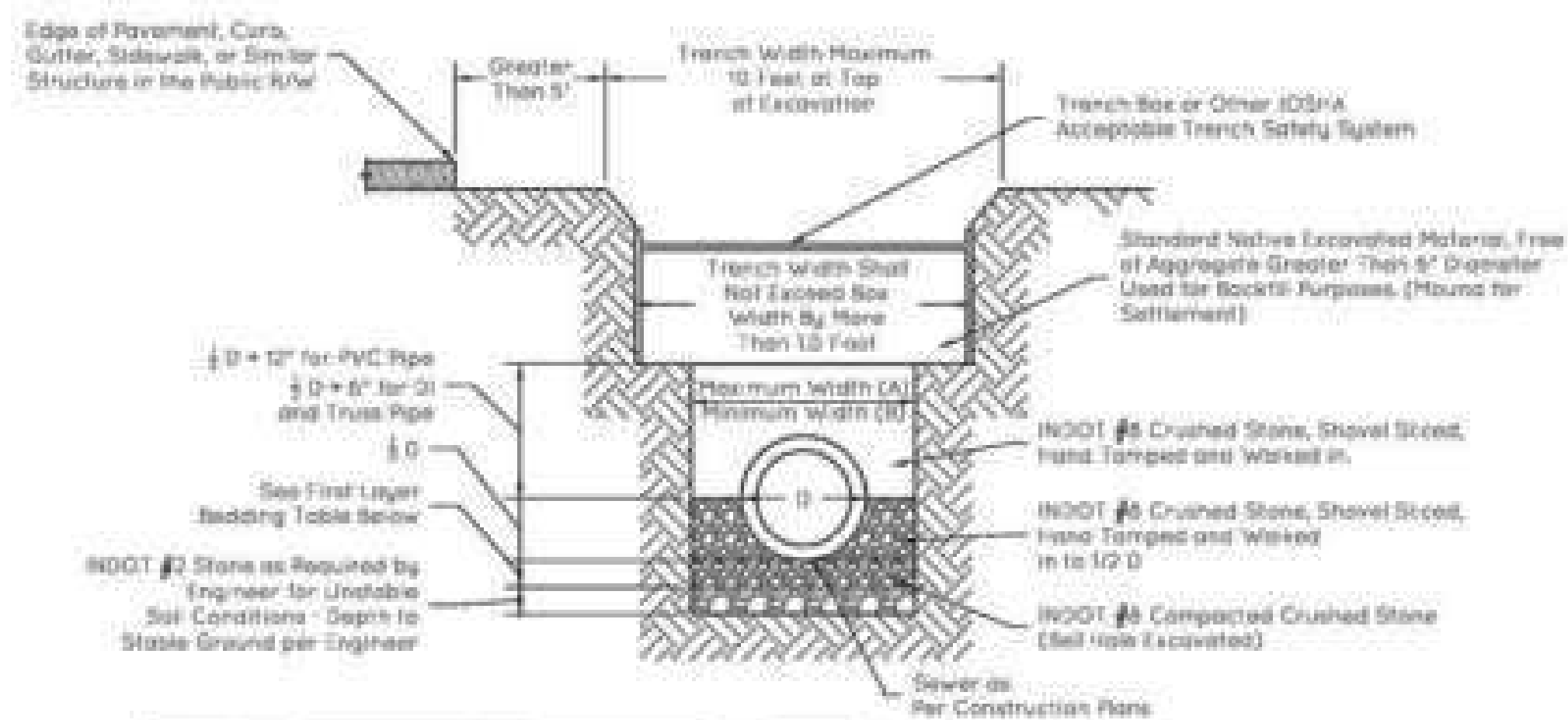
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CITY OF FISHERS
STANDARD CONSTRUCTION DETAILS
DETENTION BASIN - OUTLET
CONTROL STRUCTURE DETAILS

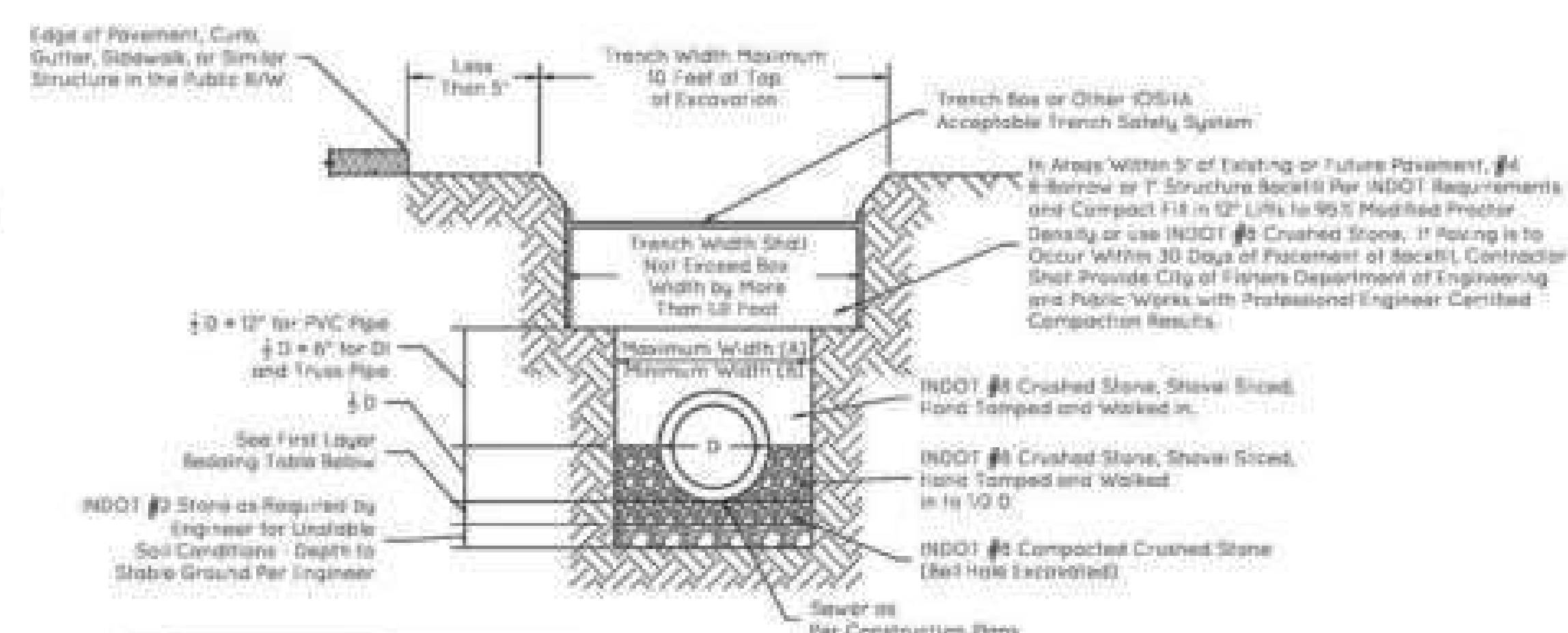
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FIRST LAYER BEDDING TABLE		
PIPE SIZE	6" TO 18"	18" & OVER
Bedding Below the Pipe Barrel and Bell	Minimum = 6"	Minimum = 10"

PIPE SIZE		
	A	B
Up to 18"	3' - 0"	2' - 0"
18" and Greater	5' - 0"	5' - 0"

Greater Than 5' From Edge of Pavement



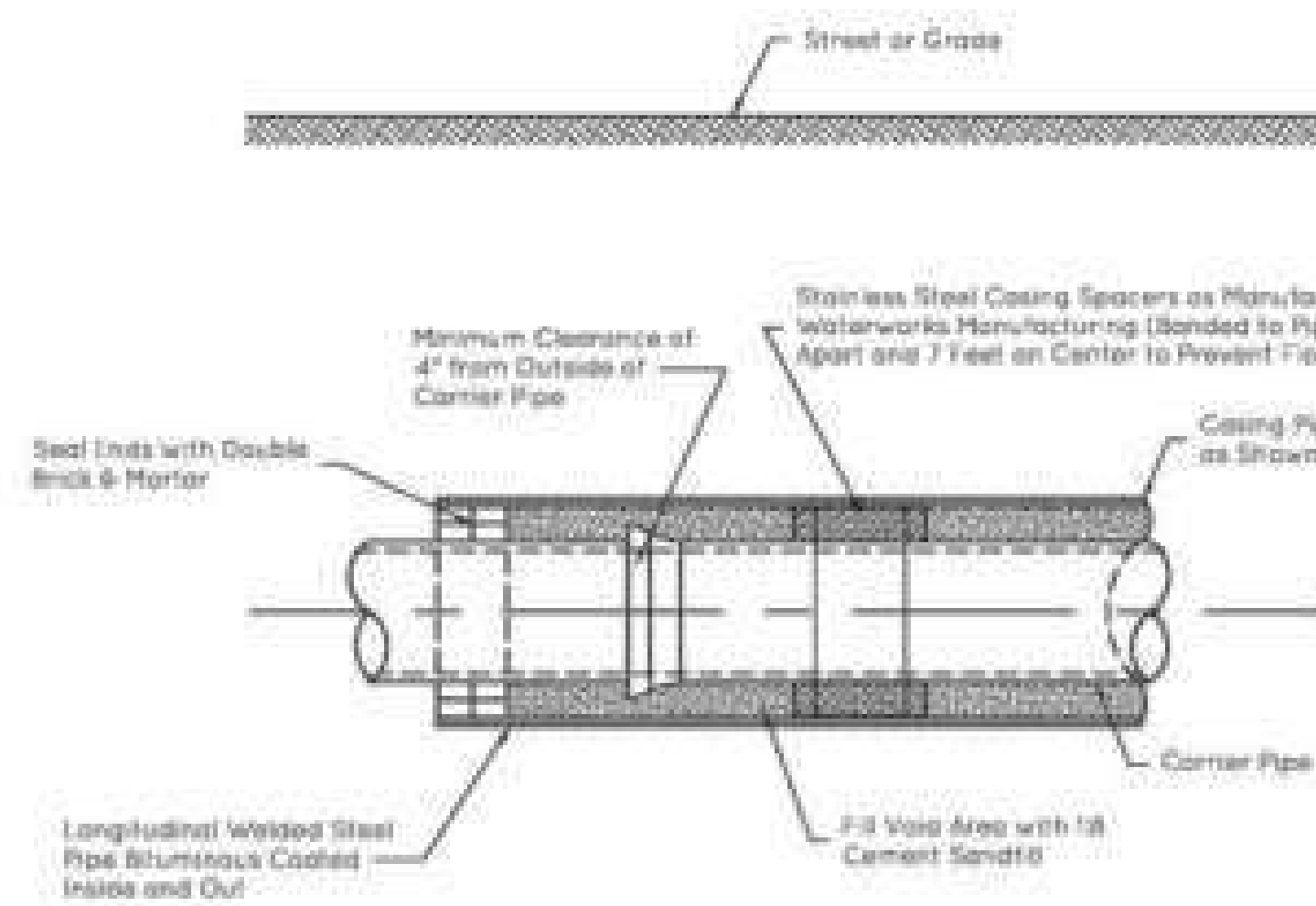
FIRST LAYER BEDDING TABLE		
PIPE SIZE	6" TO 18"	18" & OVER
Bedding Below the Pipe Barrel and Bell	Minimum = 6"	Minimum = 10"

PIPE SIZE		
	A	B
Up to 18"	3' - 0"	2' - 0"
18" and Greater	5' - 0"	5' - 0"

Within 5' of Existing or Future Pavement

SANITARY SEWER TRENCHING, BEDDING AND BACKFILL

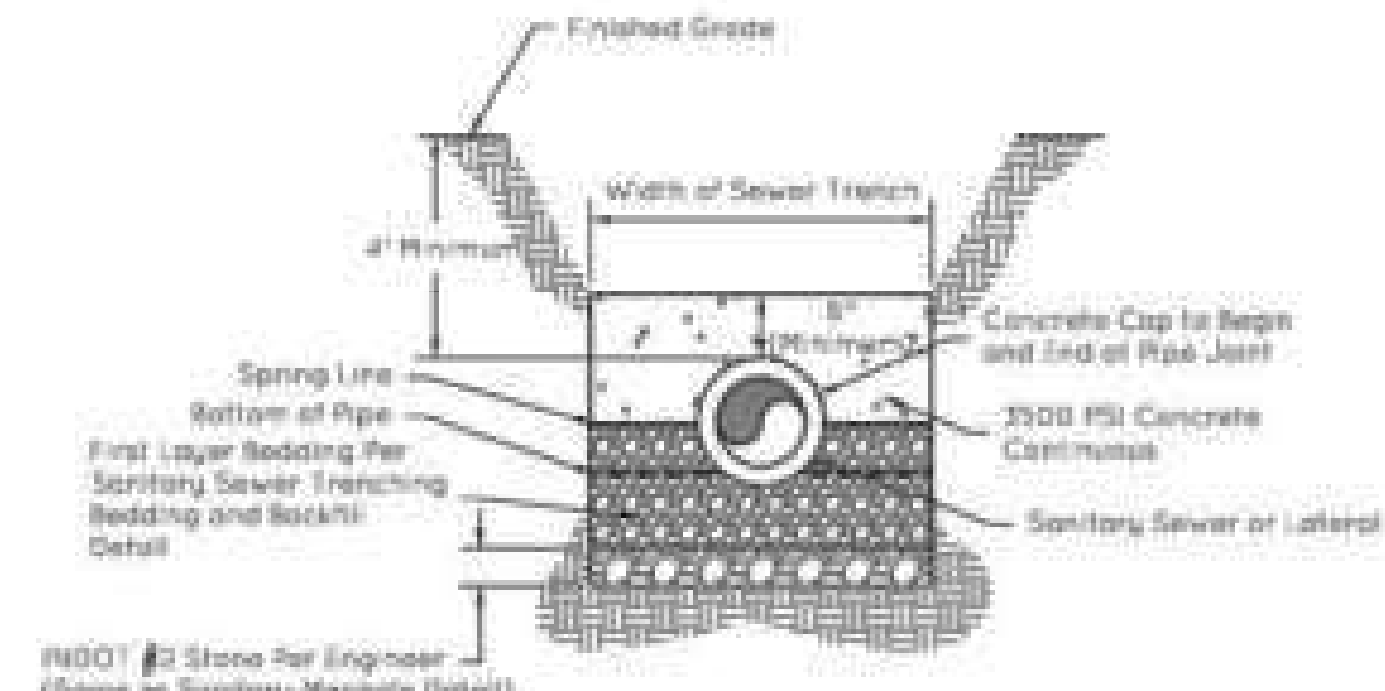
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TYPICAL STREET BORING SIDE VIEW
Not to Scale

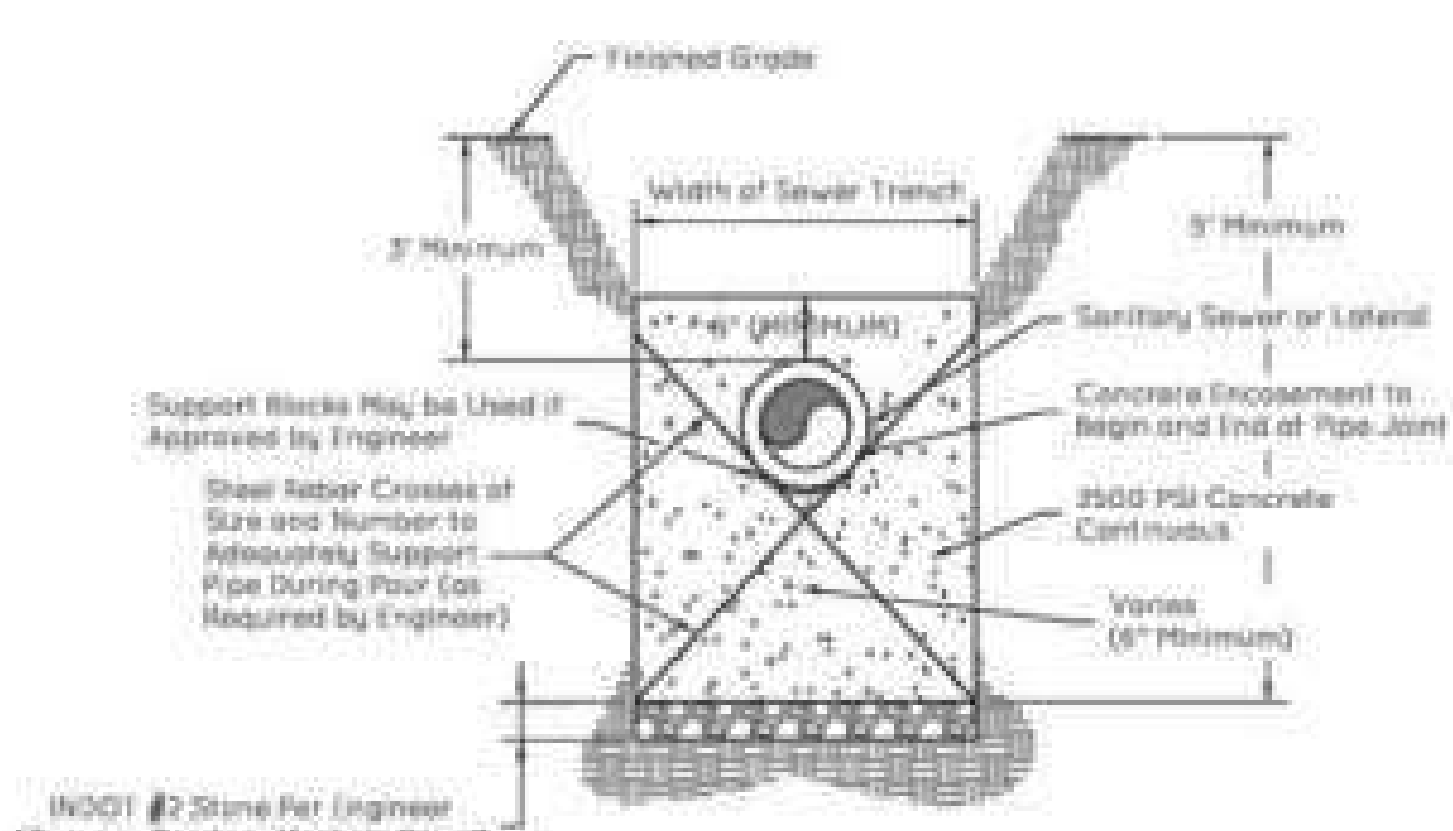


TYPICAL BORING END VIEW
Not to Scale



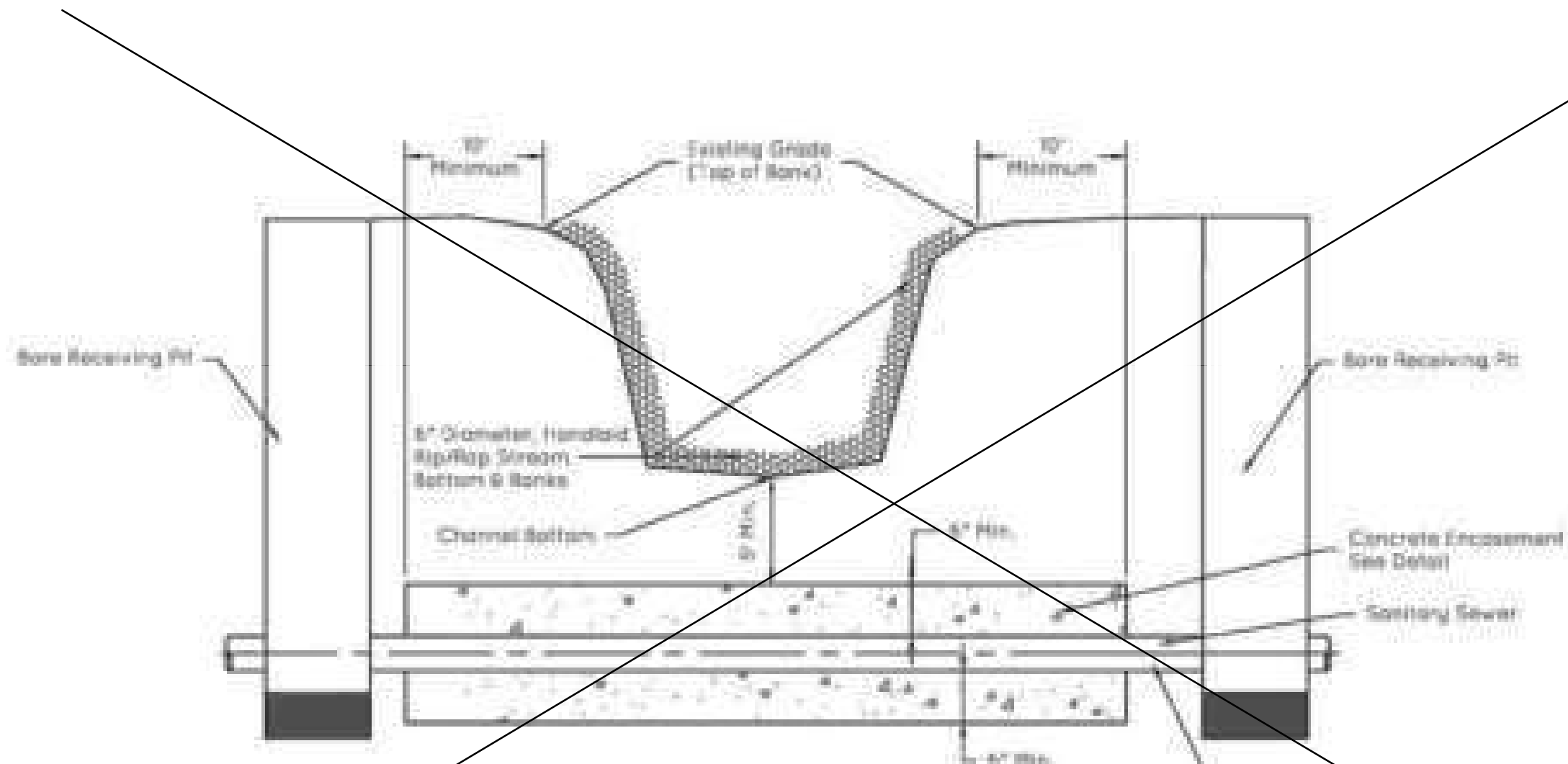
- Notes:
- Concrete shall be high-early yield and shall not be backfilled until Engineer deems the concrete adequately cured.
 - To be used when cover over top of pipe is 3-4 feet, per Engineer's direction, or where noted on the construction plans.

CONCRETE CAP
Not to Scale



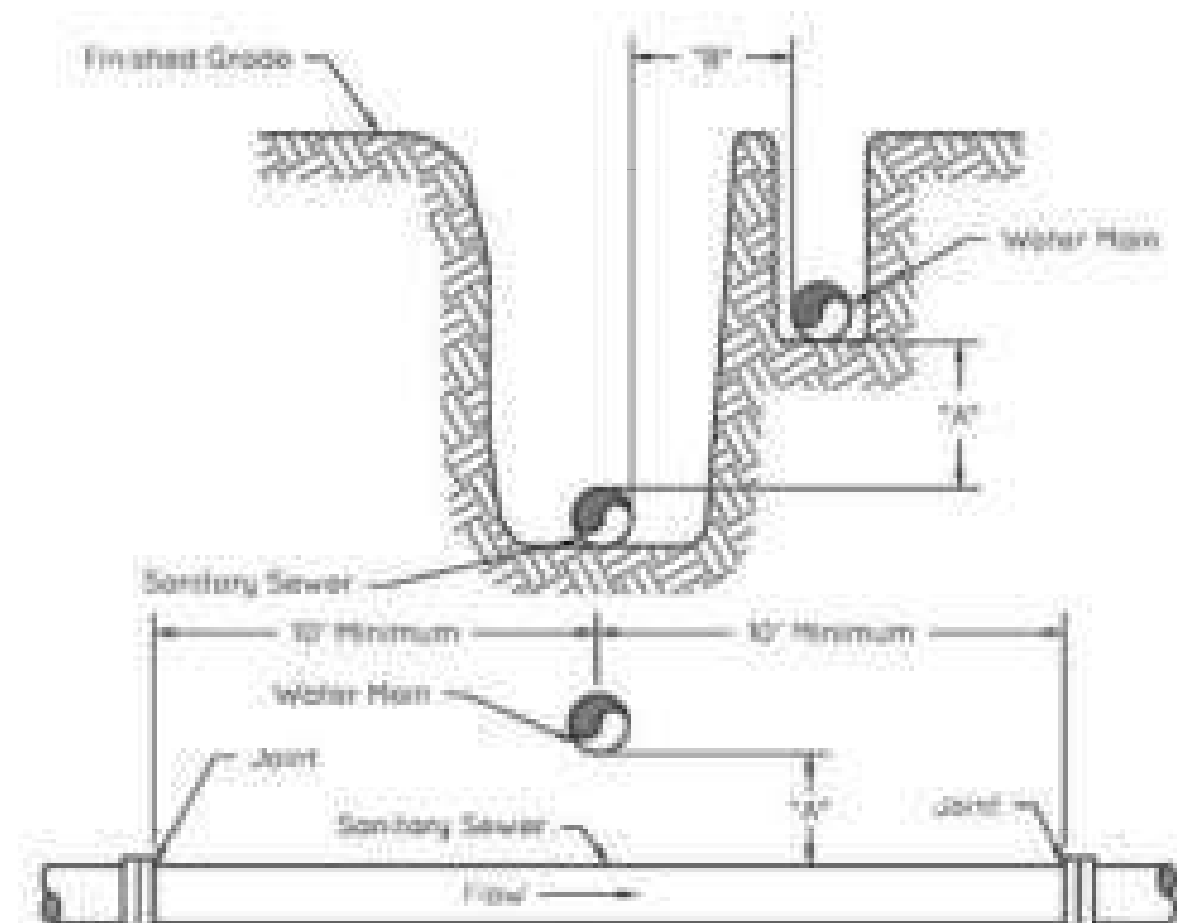
- Notes:
- Concrete shall be high-early yield and shall not be backfilled until Engineer deems the concrete adequately cured.
 - To be used when cover over top of pipe is 3-4 feet, per Engineer's direction, or where noted on the construction plans.

CONCRETE ENCASEMENT
Not to Scale



- Note:
- Stream crossing may need permit from Hamilton County Surveyor's Office. Should a county permit be necessary, refer to Hamilton County Surveyor's Office detail.

STREAM CROSSING - GRAVITY SEWER
Not to Scale



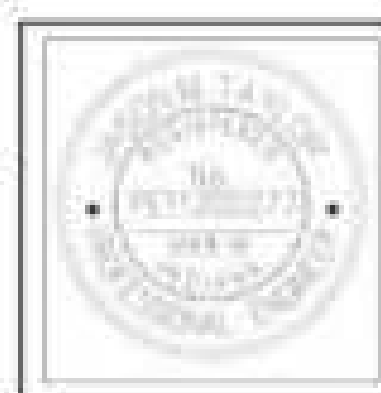
IF "A" IS:	IF "B" IS:	THEN SANITARY SEWER PIPE SEGMENT SHALL BE
10" or More	10" or More	No Special Pipe Material or Grade Requirements
Less Than 10"	Less Than 10"	PVC (Either ASTM D 2241 (SDR 21 Minimum) or ANSI/AWWA C900 (DR 10 Minimum) or ANSI/AWWA C905 (DR 21 Minimum)) or Ductile Iron (Class 51 Minimum)

- Notes:
- Water mains shall not be located in the same trench as sanitary sewers.
 - Separation distances from water supplies and pipe classifications shall conform to Indiana State Board of Health's "On-Site Water Supply and Wastewater Disposal for Public and Commercial Establishments - Bulletin SE-13".

WATER SUPPLY & SEWER CROSSING
Not to Scale

THESE SANITARY SEWER DETAILS AND FISHERS SANITARY SEWER SPECIFICATIONS ARE COMPLEMENTARY IN NATURE AND SHOULD NOT BE INTERPRETED INDIVIDUALLY WITHOUT REFERENCE TO THE OTHER.

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1/1/2018



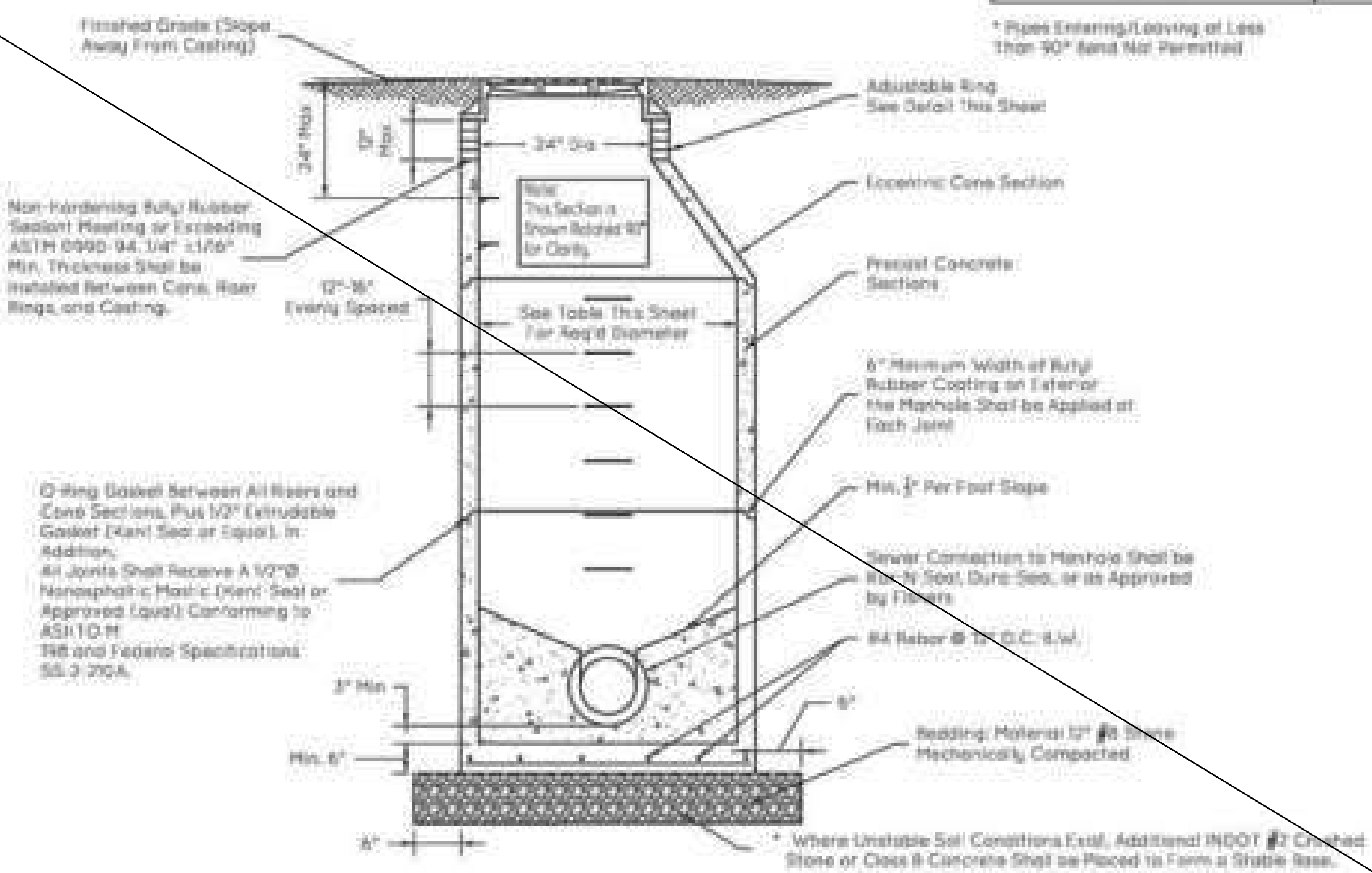
CITY OF FISHERS
STANDARD CONSTRUCTION DETAILS

SANITARY SEWER PIPE BEDDING
& CROSSING DETAILS

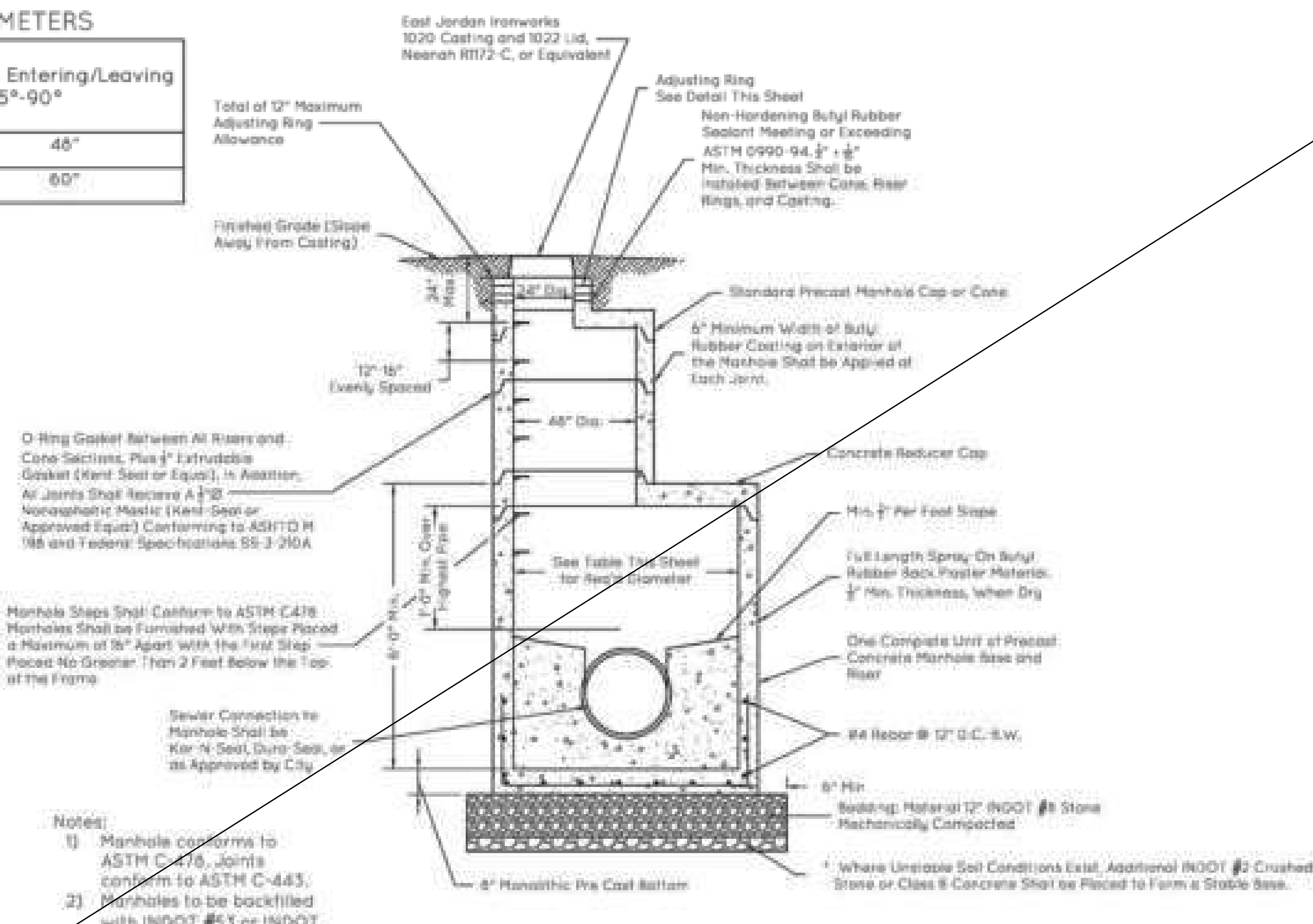
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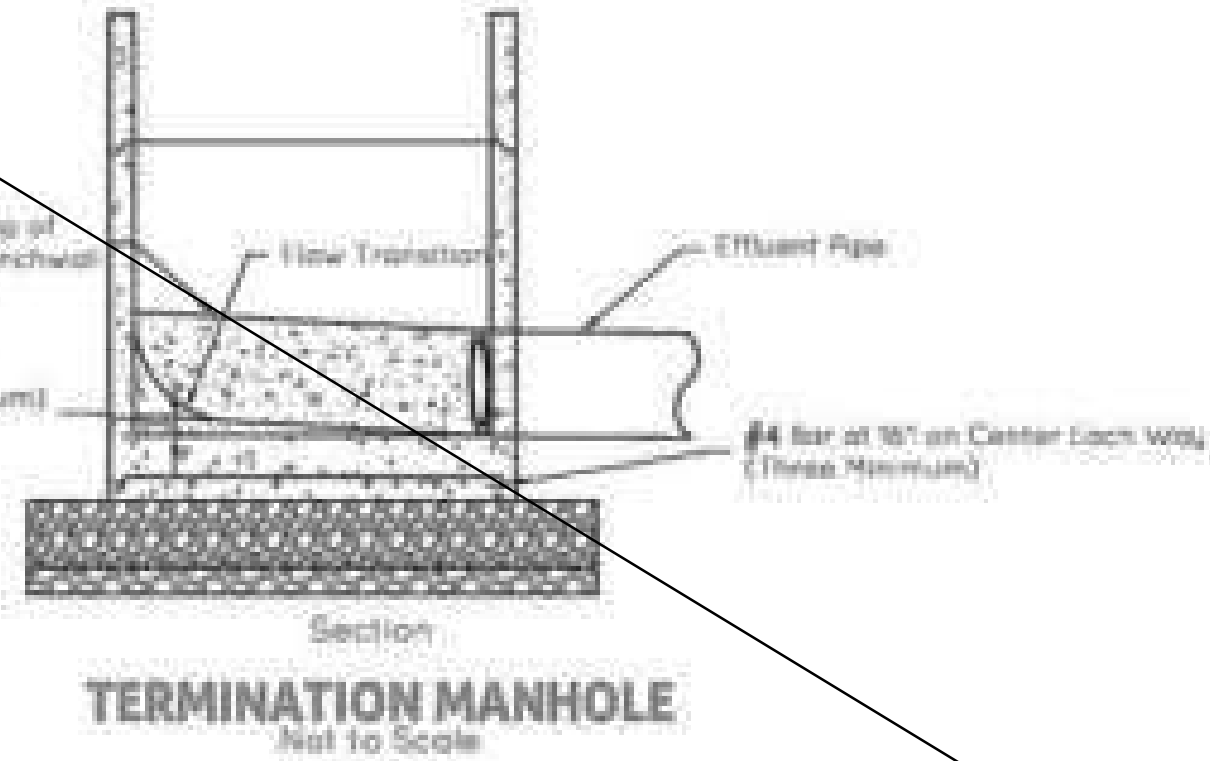
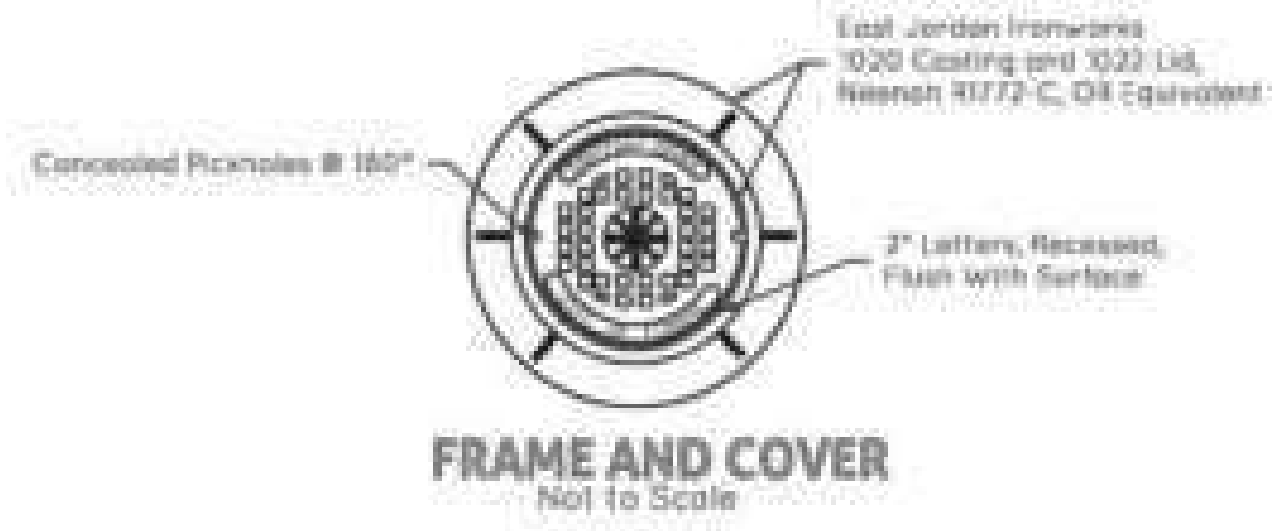
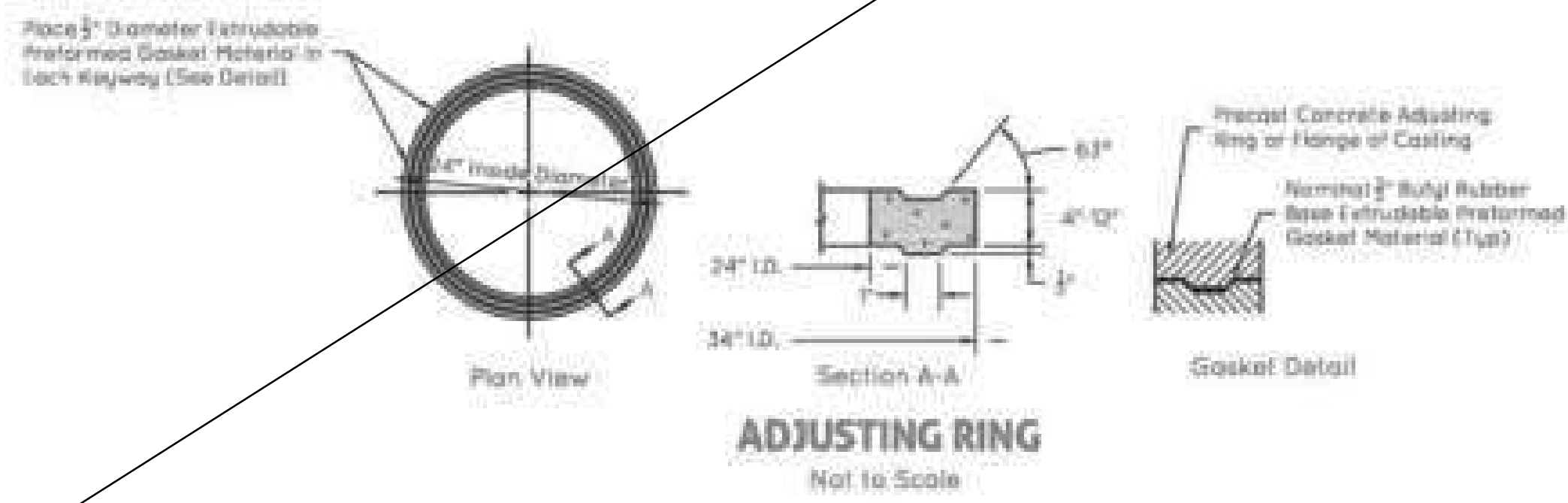
MANHOLE DIAMETERS	
Pipe Size	Pipes Entering/Leaving at 45°-90°
8"-24"	48"
27"-30"	60"



STANDARD MANHOLE FOR PIPE SIZES 8" THRU 24"
Not to Scale



STANDARD MANHOLE FOR PIPE SIZES 27" THRU 30"
Not to Scale



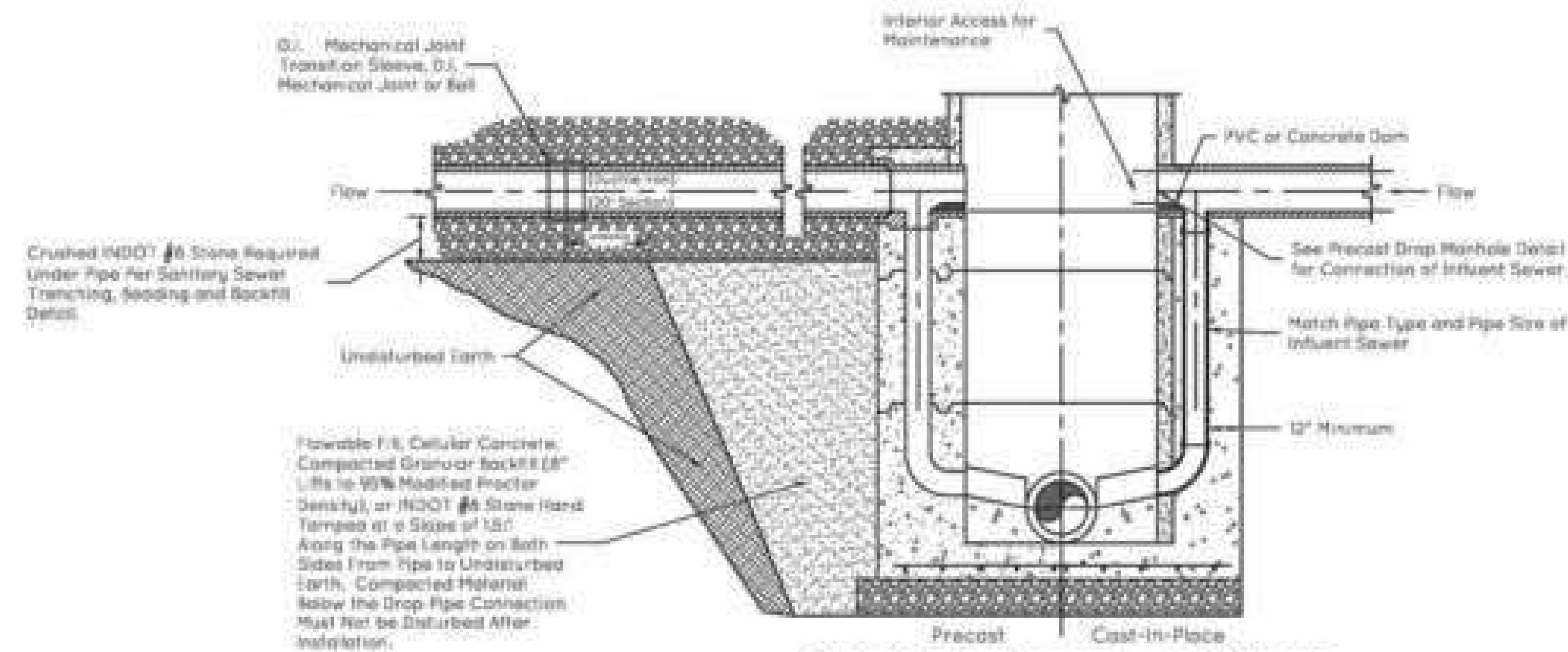
THESE SANITARY SEWER DETAILS AND FISHERS SANITARY SEWER SPECIFICATIONS ARE COMPLEMENTARY IN NATURE AND SHOULD NOT BE INTERPRETED INDIVIDUALLY WITHOUT REFERENCE TO THE OTHER.

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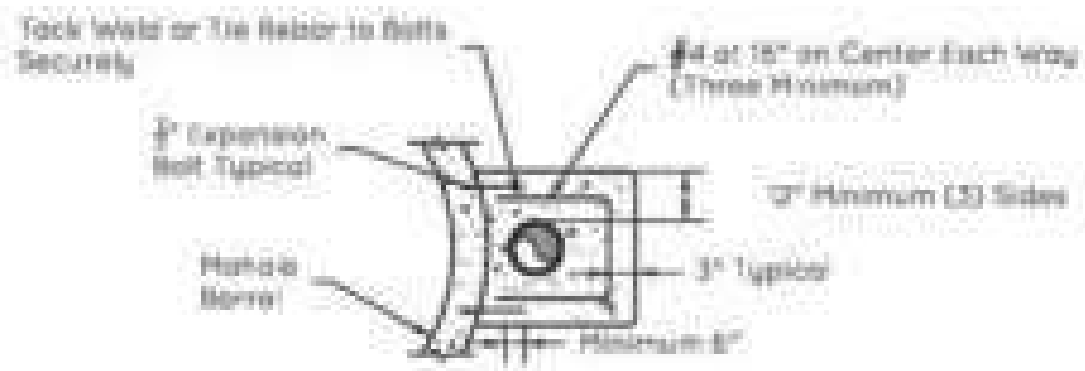


CITY OF FISHERS
STANDARD CONSTRUCTION DETAILS
SANITARY SEWER STRUCTURE
DETAILS

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TYPICAL EXTERIOR DROP MANHOLE
Not to Scale

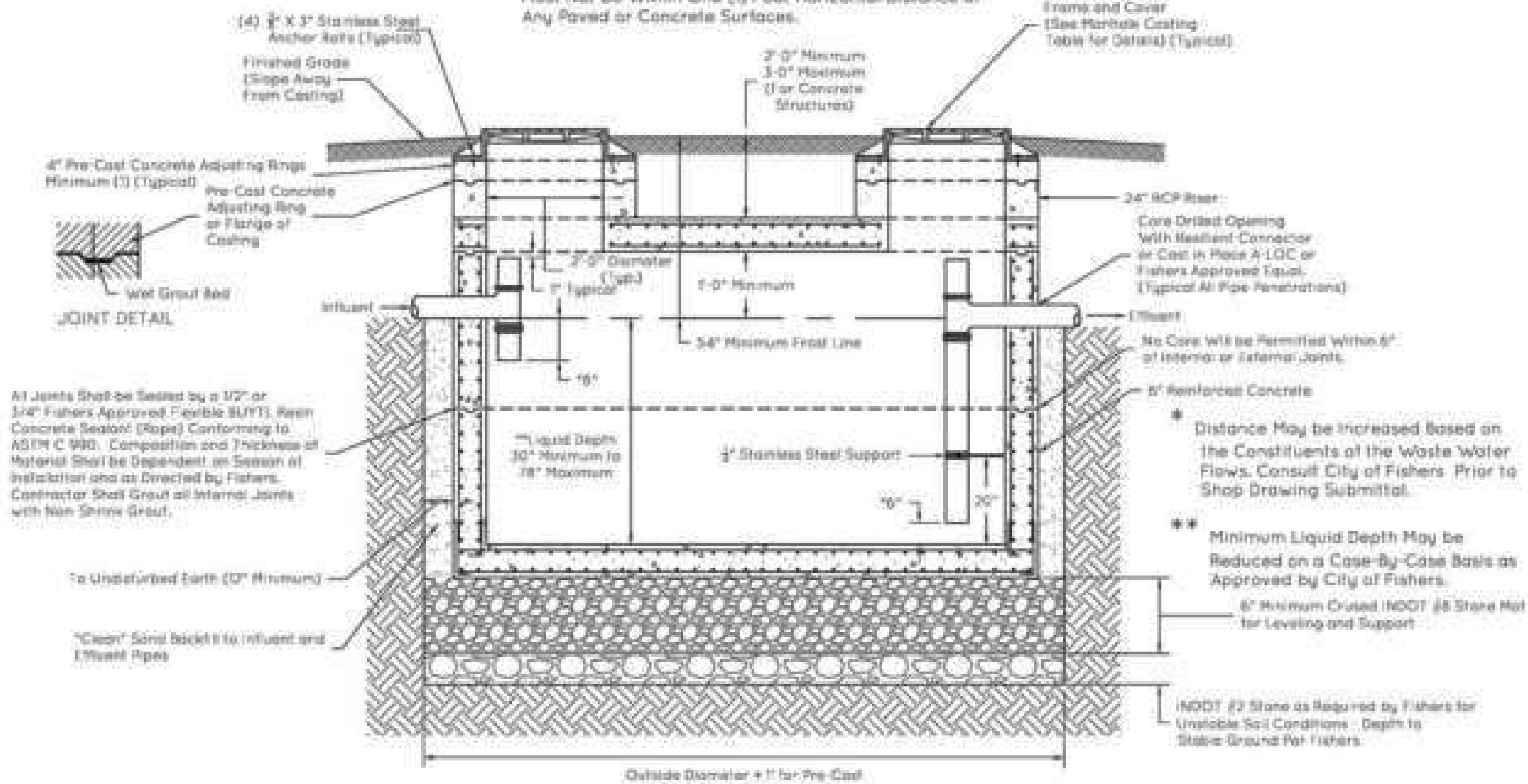


DROP SECTION
Not to Scale

MANHOLE CASTING TABLE		
LOCATION	MODEL	COVER
18" Inches or More Above 100 Year Flood Elevation of All Waterways	East Jordan 1000-TI or Neenah S-1012 or OR Equivalent	Heavy Duty Solid
Less Than 18" Above 100 Year Flood Elevation of All Waterways	East Jordan 1000-STW-T OR Neenah S-1012-11 OR Equivalent	Heavy Duty Solid
LID		
OWNERSHIP	LETTERING	
Private or Fishers	"Sanitary Sewer"	

All Castings to be Supplied With Four (4) Anchor Bolt Holes

Note:
Top of Casting Shall Extend 0.20 Feet Minimum Above Finished Grade. Unless Approved by Fishers, Castings Must Not be Within One (1) Foot Horizontal Distance of Any Paved or Concrete Surfaces.

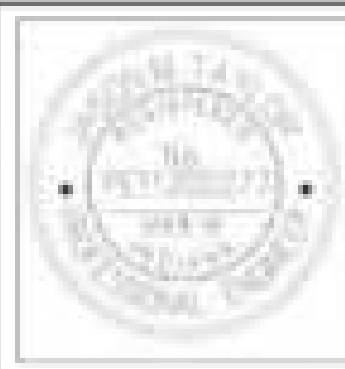


- Notes:
- Exterior grease traps must be sized according to the Indiana State Department of Health, Environmental Public Health Division Rule 410 IAC 6-10.1, "Commercial On-Site Sewage Systems" and per local requirements and codes. The sizing method for all structures must be approved by City of Fishers.
 - Top of casting shall extend 0.20 feet minimum above finished grade. Unless approved by City of Fishers, castings must not be within one (1) foot horizontal distance of any paved or concrete surfaces.
 - Shop drawings must be submitted to City of Fishers for review and approval.
 - Alternate equivalent must be approved by Director of Public Works.

EXTERIOR GREASE INTERCEPTOR
Not to Scale

THESE SANITARY SEWER DETAILS AND FISHERS SANITARY SEWER SPECIFICATIONS ARE COMPLEMENTARY IN NATURE AND SHOULD NOT BE INTERPRETED INDIVIDUALLY WITHOUT REFERENCE TO THE OTHER.

[Signature]
JANUARY

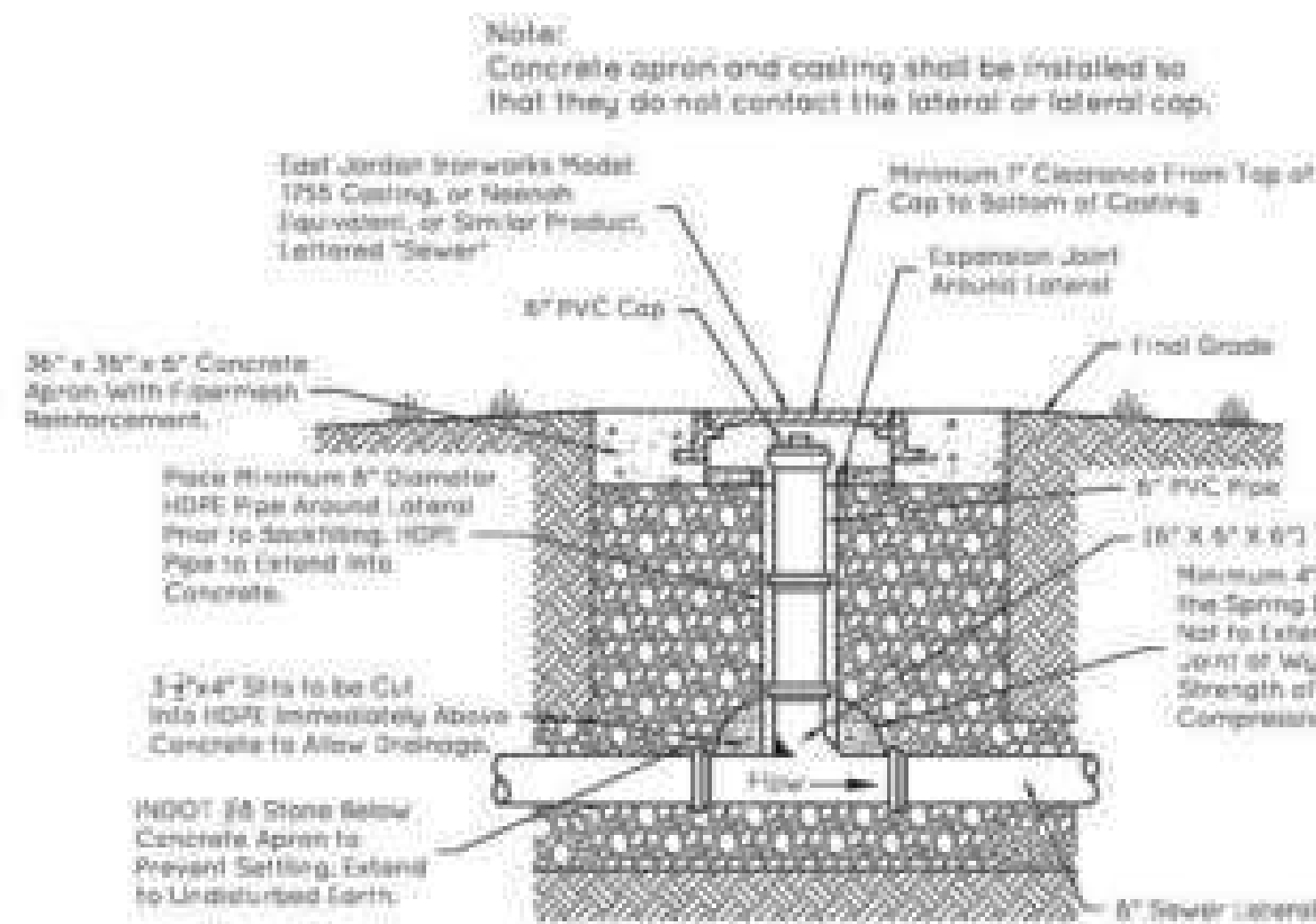


CITY OF FISHERS
STANDARD CONSTRUCTION DETAILS

SANITARY SEWER STRUCTURE
DETAILS

SHEET

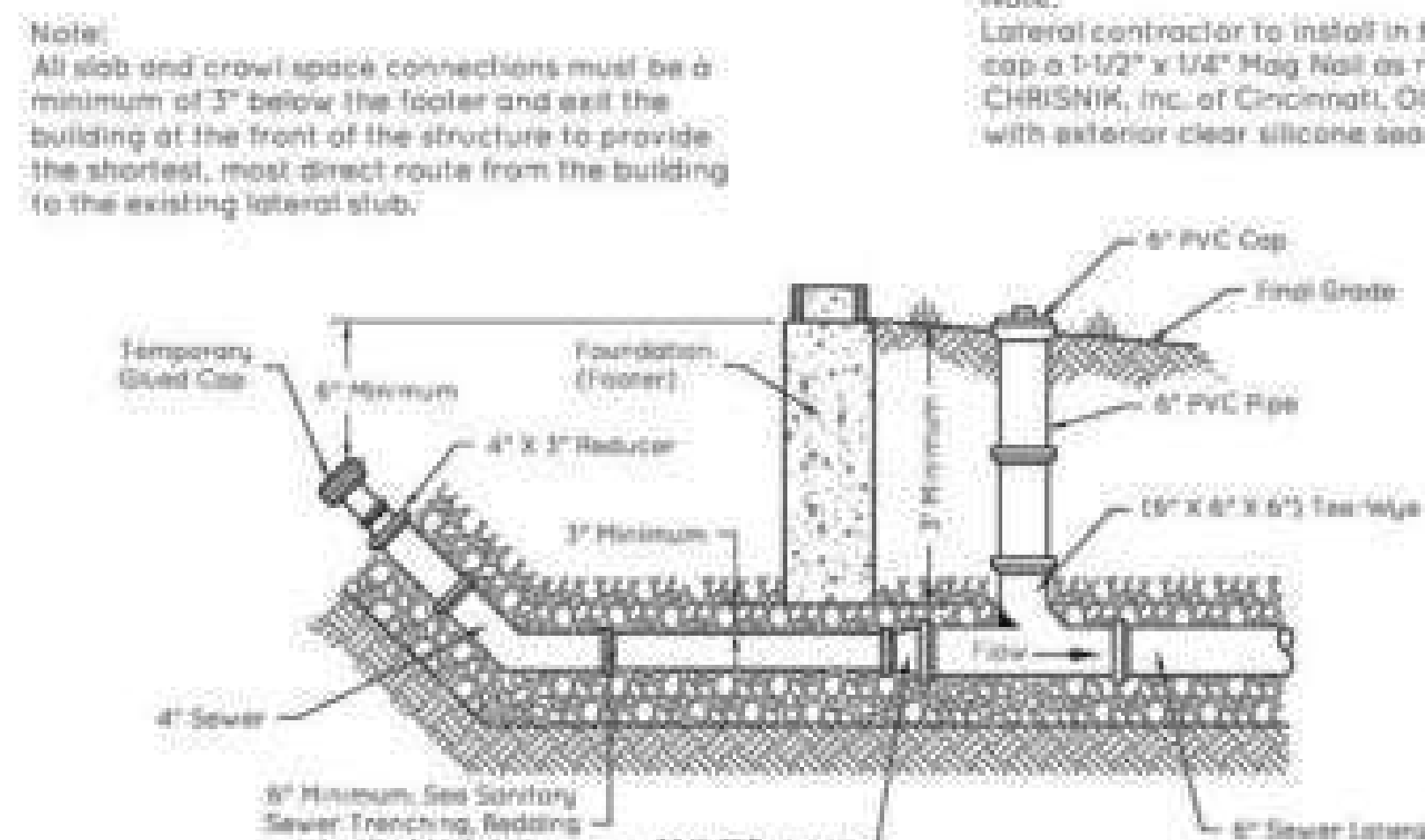
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of
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CLEANOUT TYPE 2
(Hardscape Surfaces and All Other Installations Beyond Three Feet of Building)

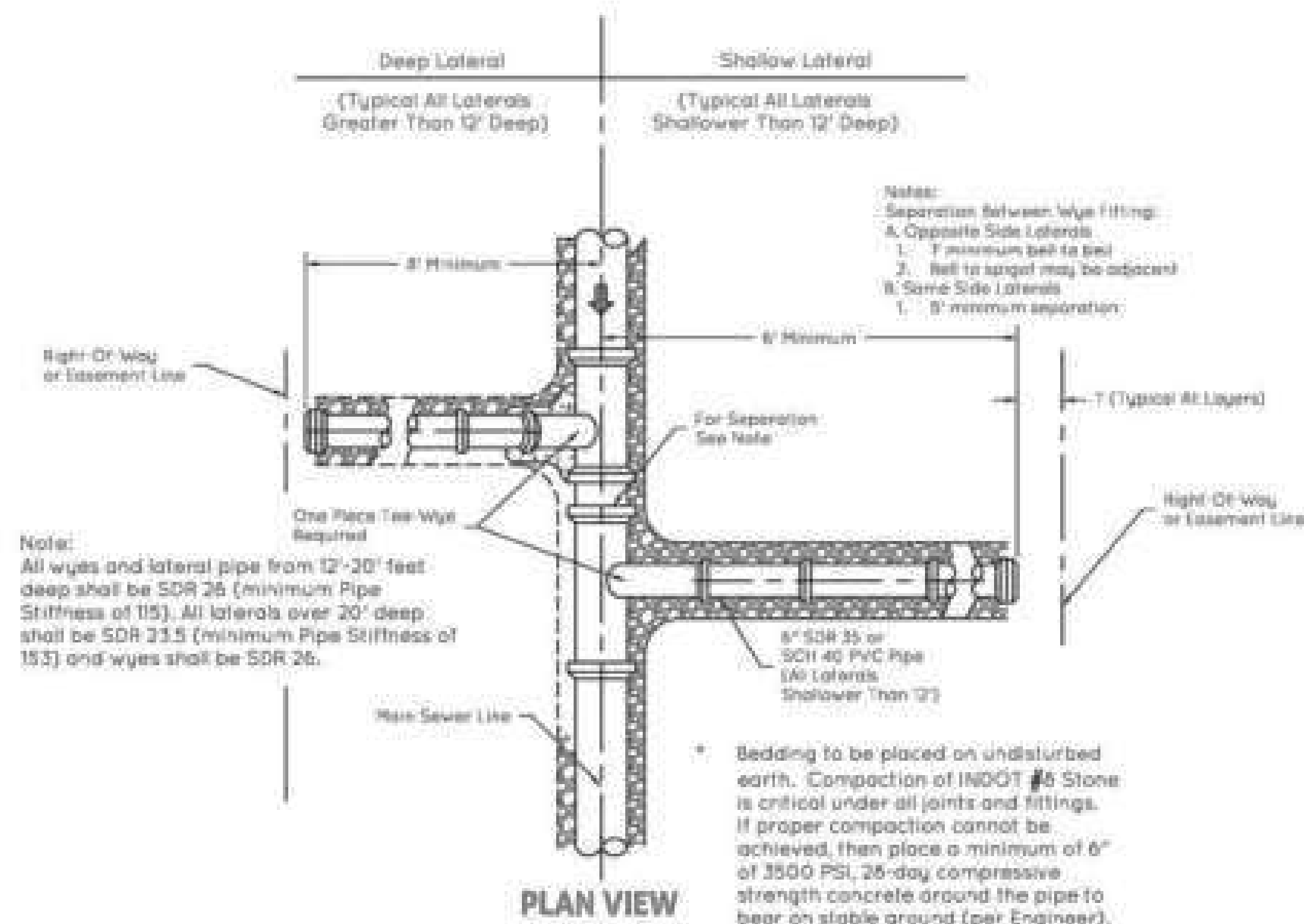
- Notes:
- 1) Top of casting or cleanout cap shall extend 0.20 feet minimum above finished grade unless constructed within pedestrian or vehicular traffic way. Unless approved by Engineer, sanitary sewer castings or cleanouts must not be within one (1) foot horizontal distance of any paved or concrete surfaces.
 - 2) All cleanout pipes and fittings to be PVC Schedule 40 or SDR 35 when shallower than twelve (12) feet. At depths greater than twelve (12) feet, material of construction will be determined by Engineer.

TYPICAL CLEANOUTS
Not to Scale



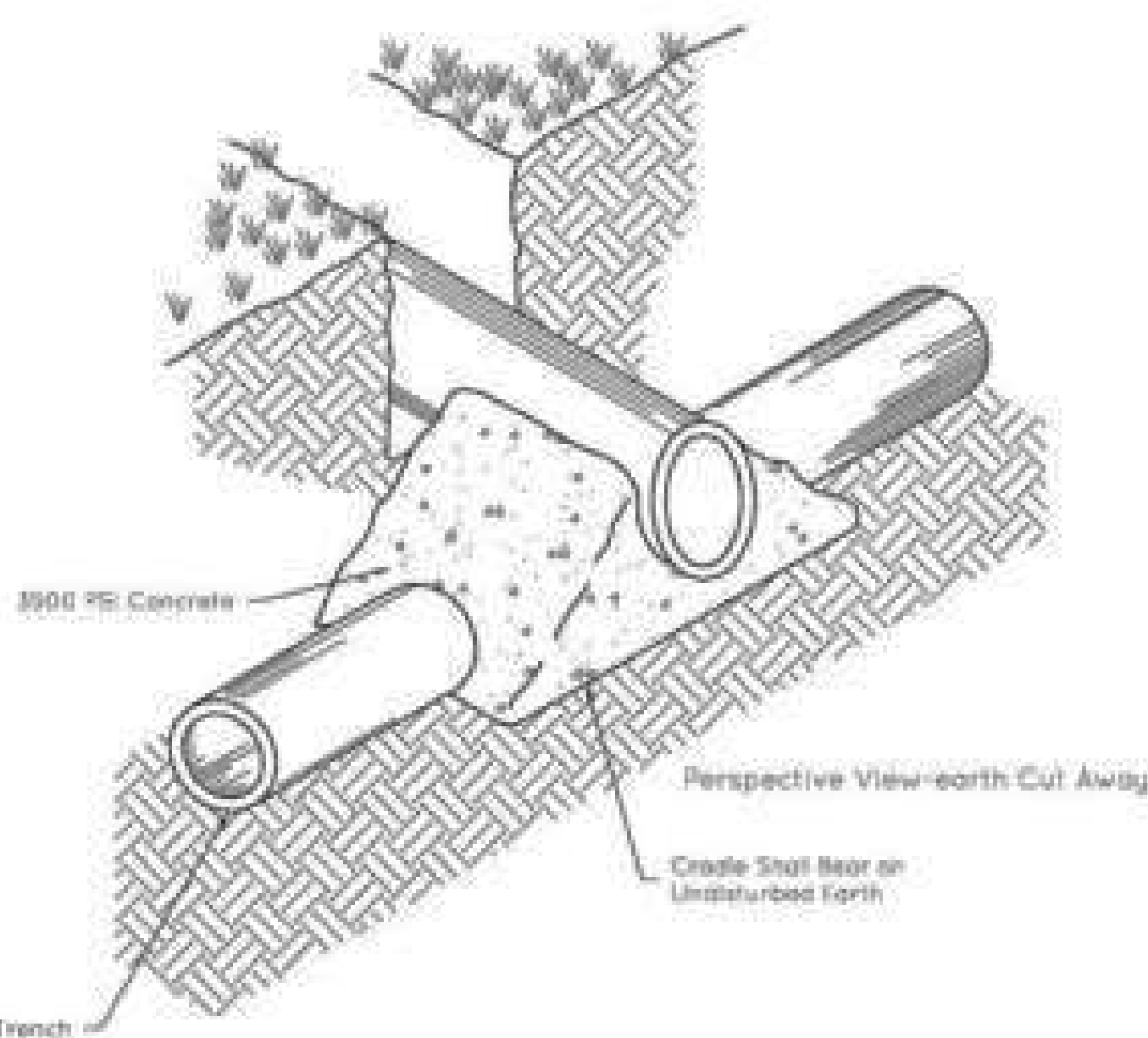
CLEANOUT TYPE 1
(Only Landscaped Surfaces Within Three Feet of Building)

Note:
Lateral contractor to install in top of cleanout cap a 1-1/2" x 1/4" Hag Nail as manufactured by CHRISNIK, Inc. of Cincinnati, Ohio and sealed with exterior clear silicone sealant.

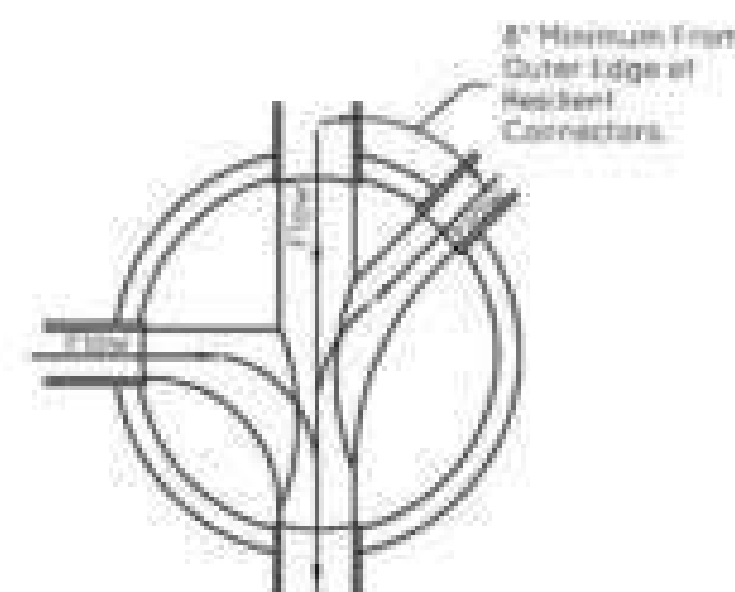


PLAN VIEW

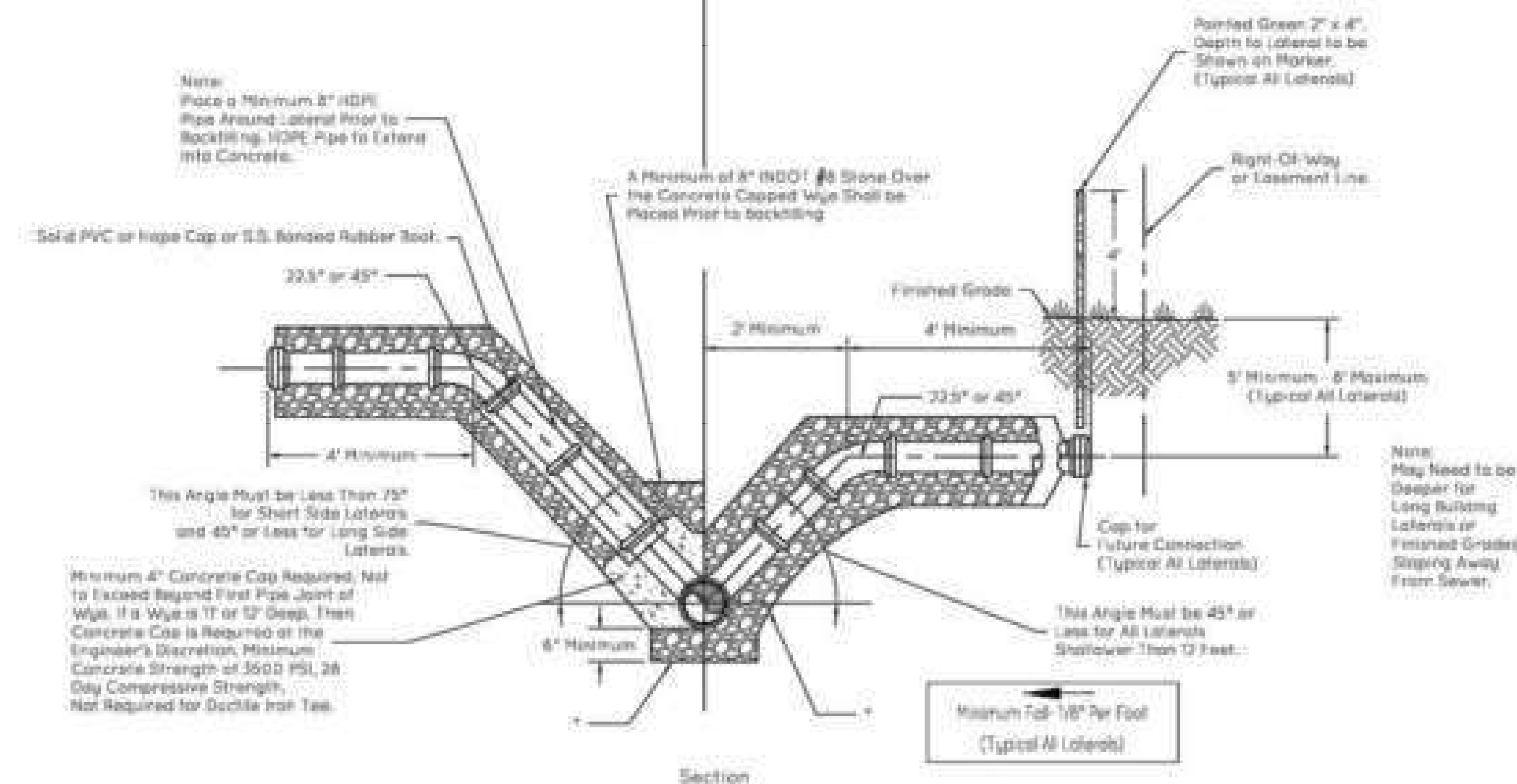
* Bedding to be placed on undisturbed earth. Compaction of INDOT #6 Stone is critical under all joints and fittings. If proper compaction cannot be achieved, then place a minimum of 6" of 3500 PSI, 28-day compressive strength concrete around the pipe to bear on stable ground (per Engineer).



CONCRETE CRADLE
Not to Scale



FLOW CHANNEL
Not to Scale



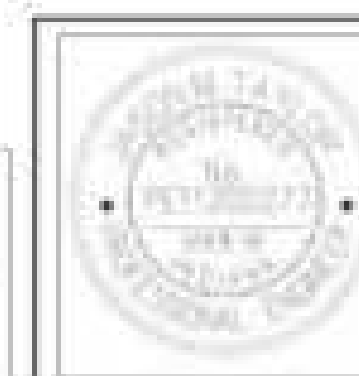
Section

- Notes:
- 1) Depth of service lateral shall be measured from finished grade to the top of main sewer line.
 - 2) All piping from wye to 45°/22.5° fitting at 5'-8' below grade shall be SDR 36 to 20' deep or SDR 33.5 greater than 20' deep.
 - 3) All lateral bedding shall be against undisturbed trench.

SERVICE LATERAL
Not to Scale

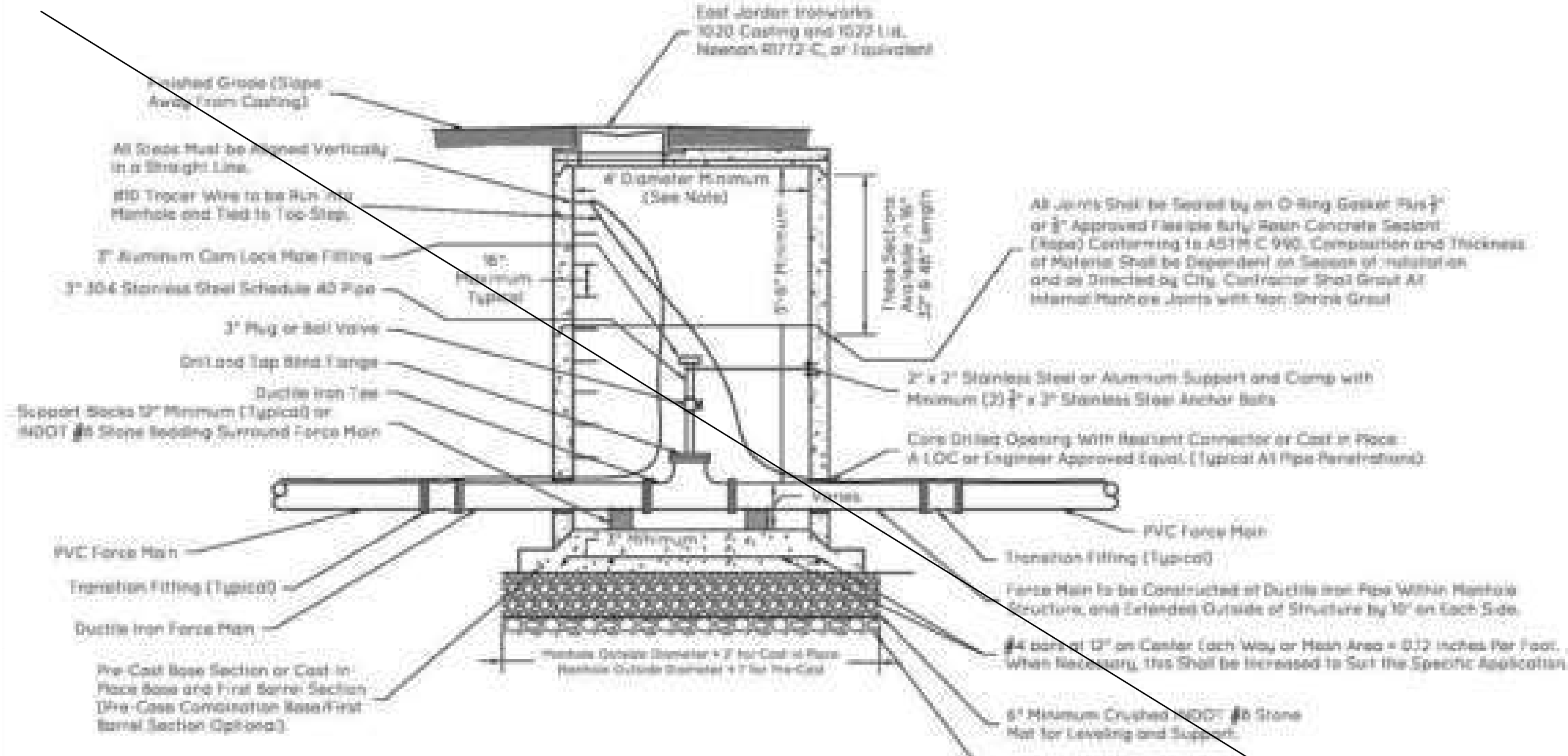
THESE SANITARY SEWER DETAILS AND FISHERS SANITARY SEWER SPECIFICATIONS ARE COMPLEMENTARY IN NATURE AND SHOULD NOT BE INTERPRETED INDIVIDUALLY WITHOUT REFERENCE TO THE OTHER.

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10/20/2020



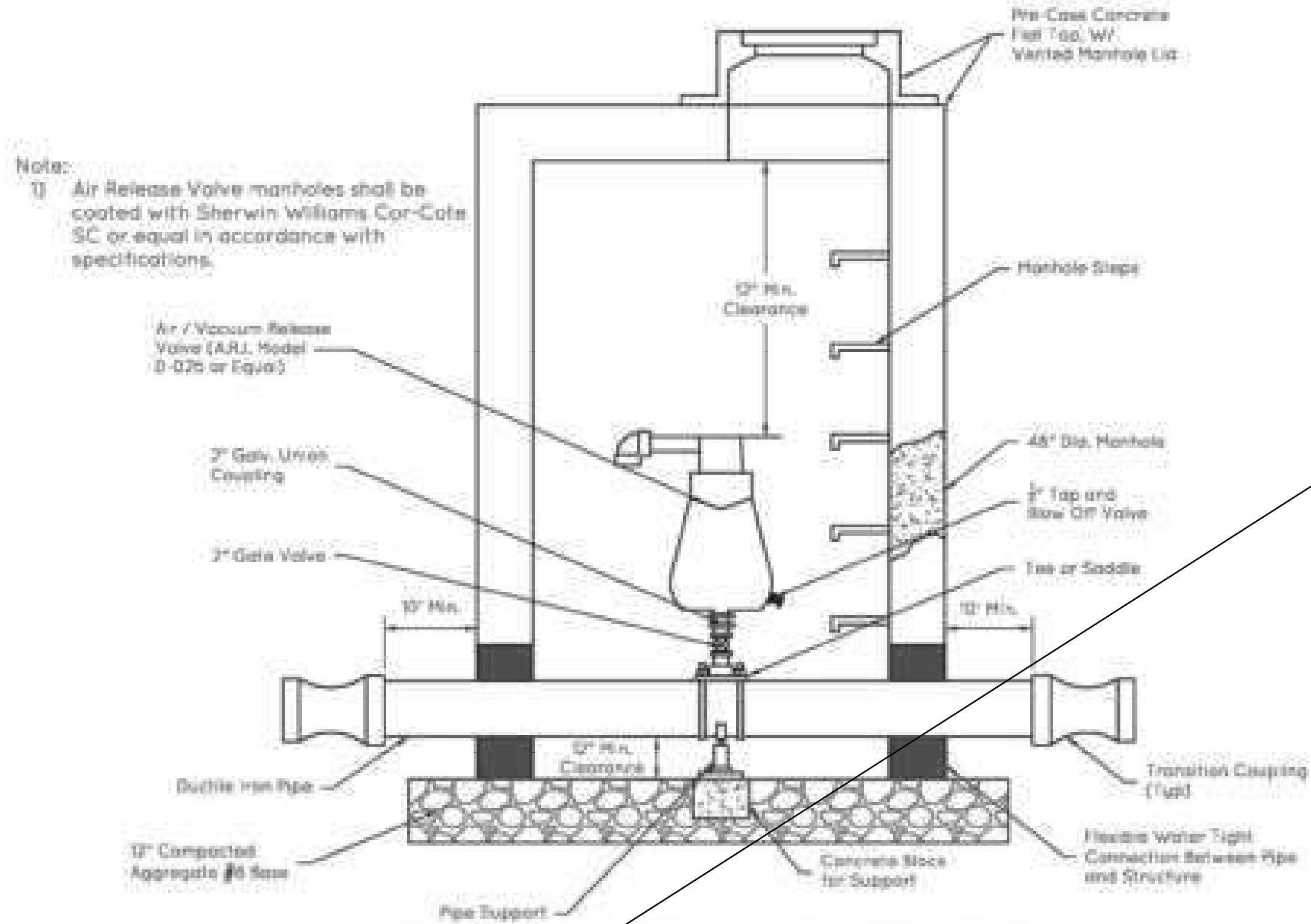
CITY OF FISHERS
STANDARD CONSTRUCTION DETAILS
SANITARY LATERAL CONNECTION, CLEAN OUT, & MISC. DETAILS

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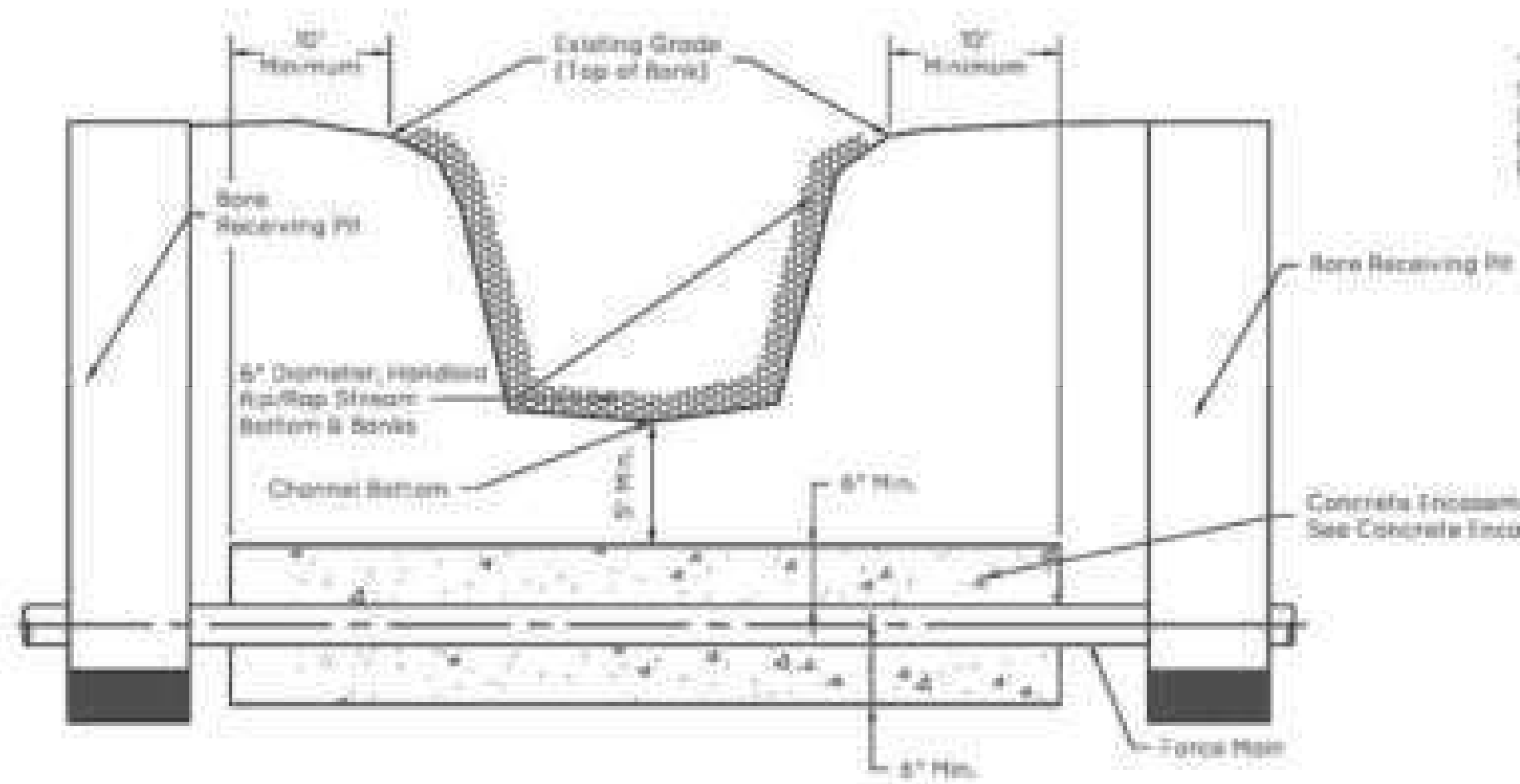


- Notes:
- 1) Manhole sections shall conform to ASTM C-478 utilizing 4,000 psi concrete. Joints shall conform to ASTM C-443. Four (4) feet diameter manhole for 6" force main or smaller, or five (5) feet diameter manhole for 8" force main or larger.
 - 2) Top of casting shall extend 0.20 feet minimum above finished grade.

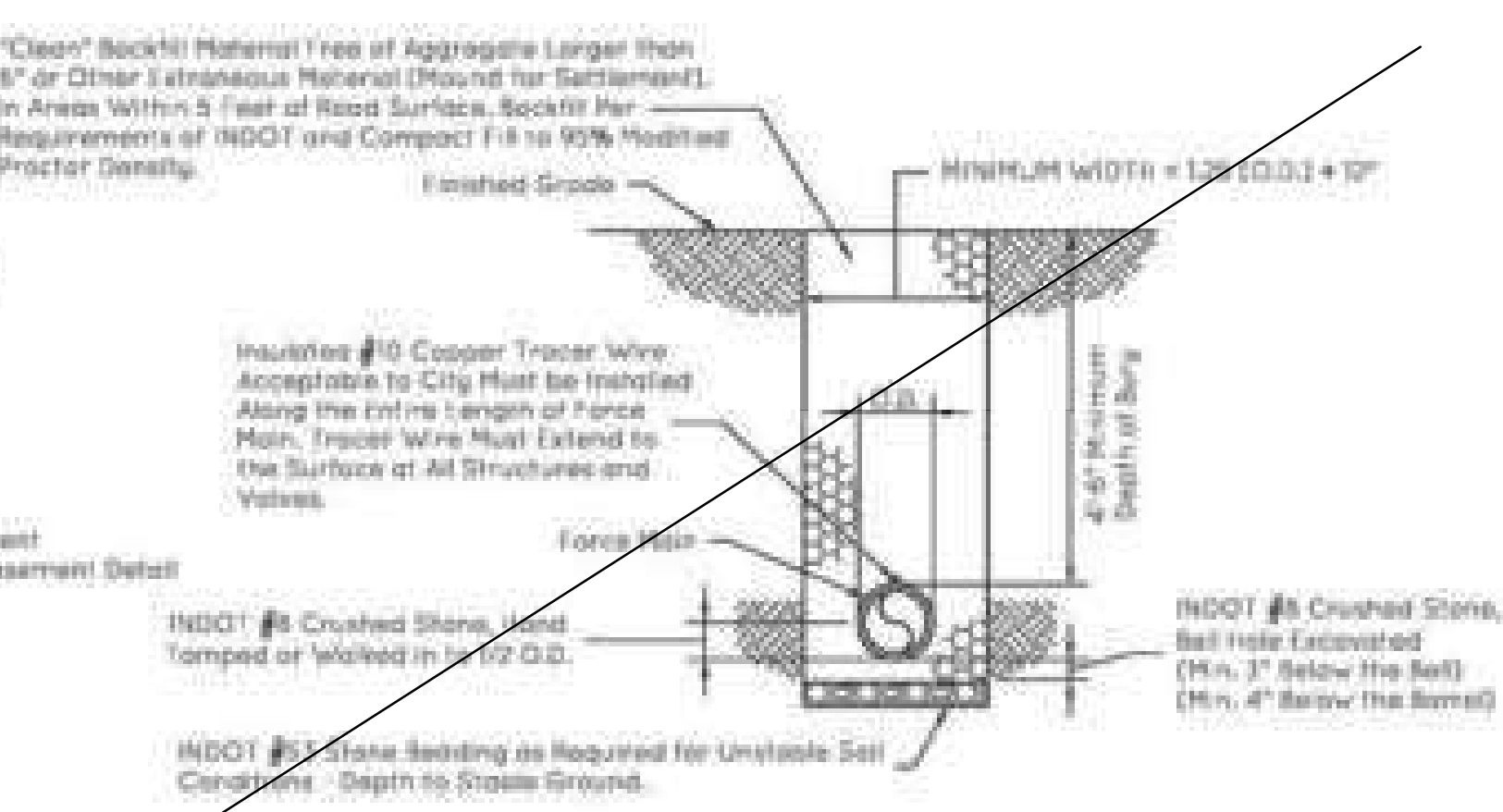
FORCE MAIN CLEAN-OUT MANHOLE
Not to Scale



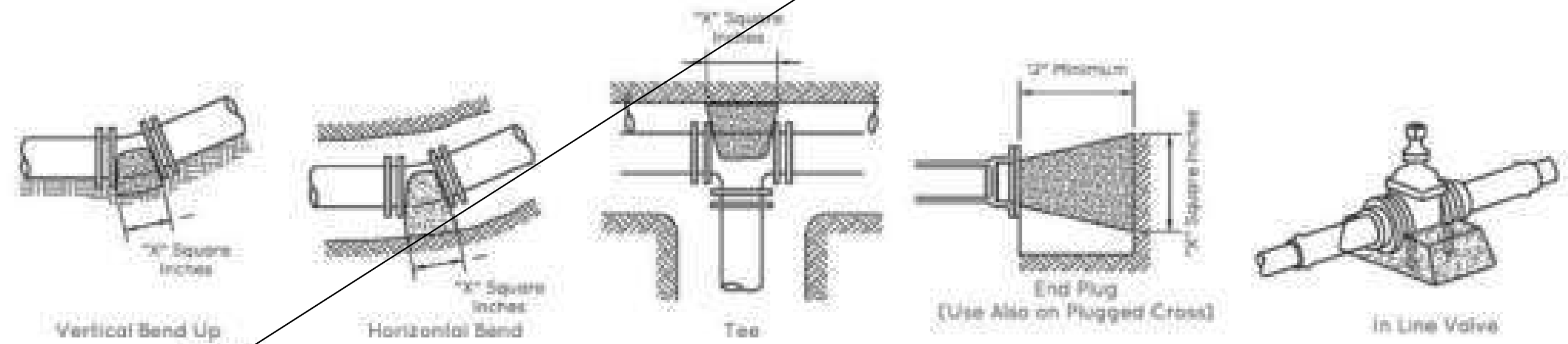
TYPICAL AIR RELEASE VALVE WITH CONNECTION
Not to Scale



STREAM CROSSING - FORCE MAIN
(Refer to Hamilton County Surveyors Detail)
Not to Scale



FORCE MAIN TRENCH
Not to Scale



- Notes:
- 1) Blocks designed for 100 psi pressure, for higher pressures contact City of Fishers.
 - 2) Vertical bends downwards (3" and greater) shall be individually designed using flanged or restrained joints.
 - 3) Concrete for thrust blocks to be 3750 psi laid to undisturbed bearing wall of the trench in the form of a wedge with the wide end against the trench wall.
 - 4) Thrust blocking is required for all force main locations where the main changes direction by 15° or more.

FORCE MAIN THRUST BLOCKING
Not to Scale

Type of Soil	SIZE OF THRUST BLOCK IN SQUARE INCHES																				In Line Valve
	1/4 (1 1/4") & 1/2 (2 1/2") Bend					1/2 (45°) Bend					3/4 (90°) Bend					Tee & End Plug					
	1 1/2"	2"	2 1/2"	3"	4"	1 1/2"	2"	2 1/2"	3"	4"	1 1/2"	2"	2 1/2"	3"	4"	1 1/2"	2"	2 1/2"	3"	4"	
Loose Sand & Gravel, Soft Clay	20	30	40	60	100	40	60	80	110	190	70	100	140	210	340	50	70	100	150	240	Coordinate With Engineer
Compacted Sand & Gravel, Dense Silt, Firm Till & Stiff Clay	10	20	20	30	50	20	30	40	60	100	40	50	70	110	170	30	40	50	80	120	
Very Stiff Clay, Dense Till, Shale or Rock	10	10	20	20	40	20	20	30	40	70	30	40	50	70	120	20	30	40	50	80	

DUCTILE IRON PIPE SIZE	DEPTH OF COVER (INVERT TO FINAL GRADE)	THICKNESS CLASS
6" - 8"	Up to 20 Feet Over 20 Feet Contact Engineer	Class 50
10" - 12"	Up to 20 Feet Over 20 Feet Contact Engineer	Class 51
14" - 16"	Up to 20 Feet Over 20 Feet Contact Engineer	Class 52
18" - 20"	Up to 20 Feet Over 20 Feet Contact Engineer	Class 54
24"	Up to 20 Feet Over 20 Feet Contact Engineer	Class 55
Greater Than 24" Diameter	Greater Than 20 Feet Deep	Contact Engineer (Either Case)

NOTE: No Pressure Railed Pipe Will be Permitted

- Note:
- 1) Manhole sections shall conform to ASTM C 478 utilizing 4,000 psi concrete. Joints shall conform to ASTM C 443. Four (4) feet diameter manhole for 6" force main or smaller, or five (5) feet diameter manhole for 8" force main or larger.

THESE SANITARY SEWER DETAILS AND FISHERS SANITARY SEWER SPECIFICATIONS ARE COMPLEMENTARY IN NATURE AND SHOULD NOT BE INTERPRETED INDIVIDUALLY WITHOUT REFERENCE TO THE OTHER.



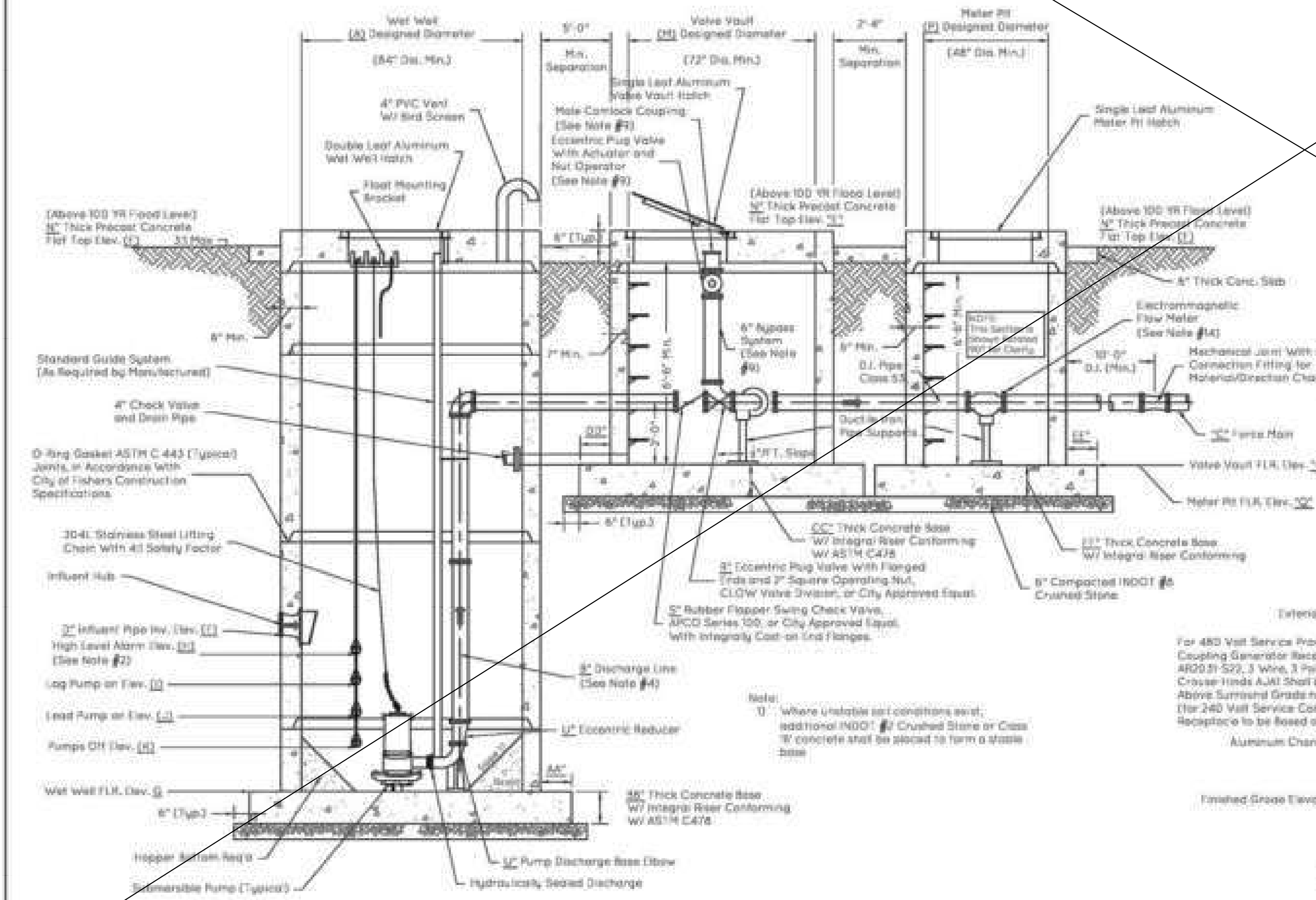
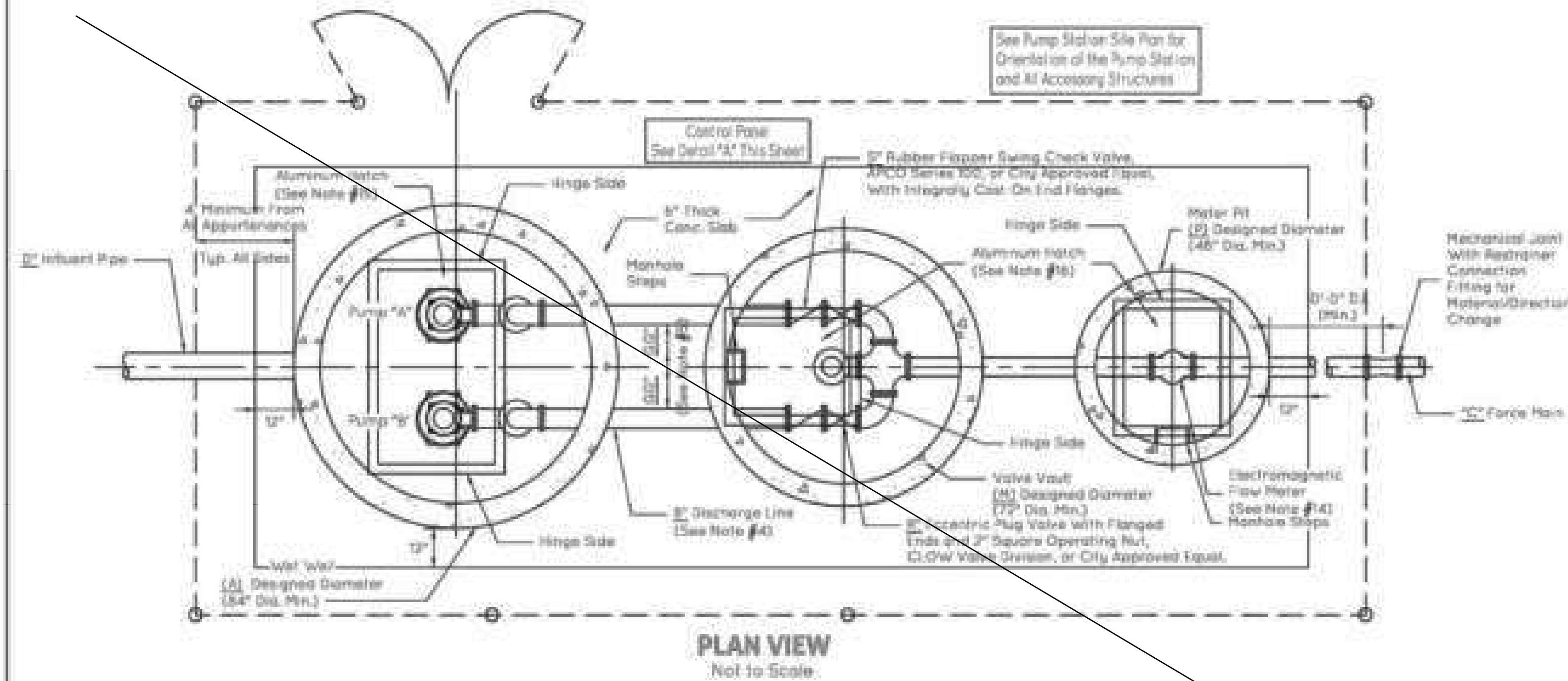
CITY OF FISHERS
STANDARD CONSTRUCTION DETAILS

SANITARY SEWER FORCE MAIN
DETAILS

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NOTE: *ONLY FOR LIFT STATIONS COVEYED TO FISHERS*



SUBMERSIBLE PUMP STATION SCHEDULE			
DESCRIPTION	SYMBOL	DATA (1)	ADDITIONAL INFORMATION
Pump Model Number			
Pump Capacity - GPM Each			
Total Dynamic Head - FT			
Pump Discharge Size Ø			
Motor HP			
Motor RPM			
Wet Well Diameter	A		
Discharge Pipe Diameter	B		
Force Main Diameter	C		
Gravity Influent Pipe Diameter	D		
Gravity Influent Inv. EL. - FT.	E		
Wet Well, Valve Vault, & Meter Pit Top of Str. EL.	F		
Wet Well Floor EL.	G		
High Water Alarm EL. Level	H		
Lag Pump Start EL. Level	I		
Lag Pump Stop EL. Level	J		
Pumps Off EL. Level	K		
(Not Used)	L		
Valve Vault Diameter	M		
Precast Concrete Flat Top (Min. 10")	N		
Valve Vault Floor EL.	O		
Water Pit Diameter	P		
Water Pit Floor EL.	Q		
Plug Valve	R		
Check Valve	S		
(Not Used)	T		
Eccentric Reducer	U		
Discharge Elbow Size	V		
Design Engineer to Set Dimension, Supported by Burdigalby Calculations	AA		
Design Engineer to Set Dimension, Supported by Burdigalby Calculations	BB		
Design Engineer to Set Dimension, Supported by Burdigalby Calculations	CC		
Design Engineer to Set Dimension, Supported by Burdigalby Calculations	DD		
Design Engineer to Set Dimension, Supported by Burdigalby Calculations	EE		
Design Engineer to Set Dimension, Supported by Burdigalby Calculations	FF		
Spacing Between Discharge Piping	GG		

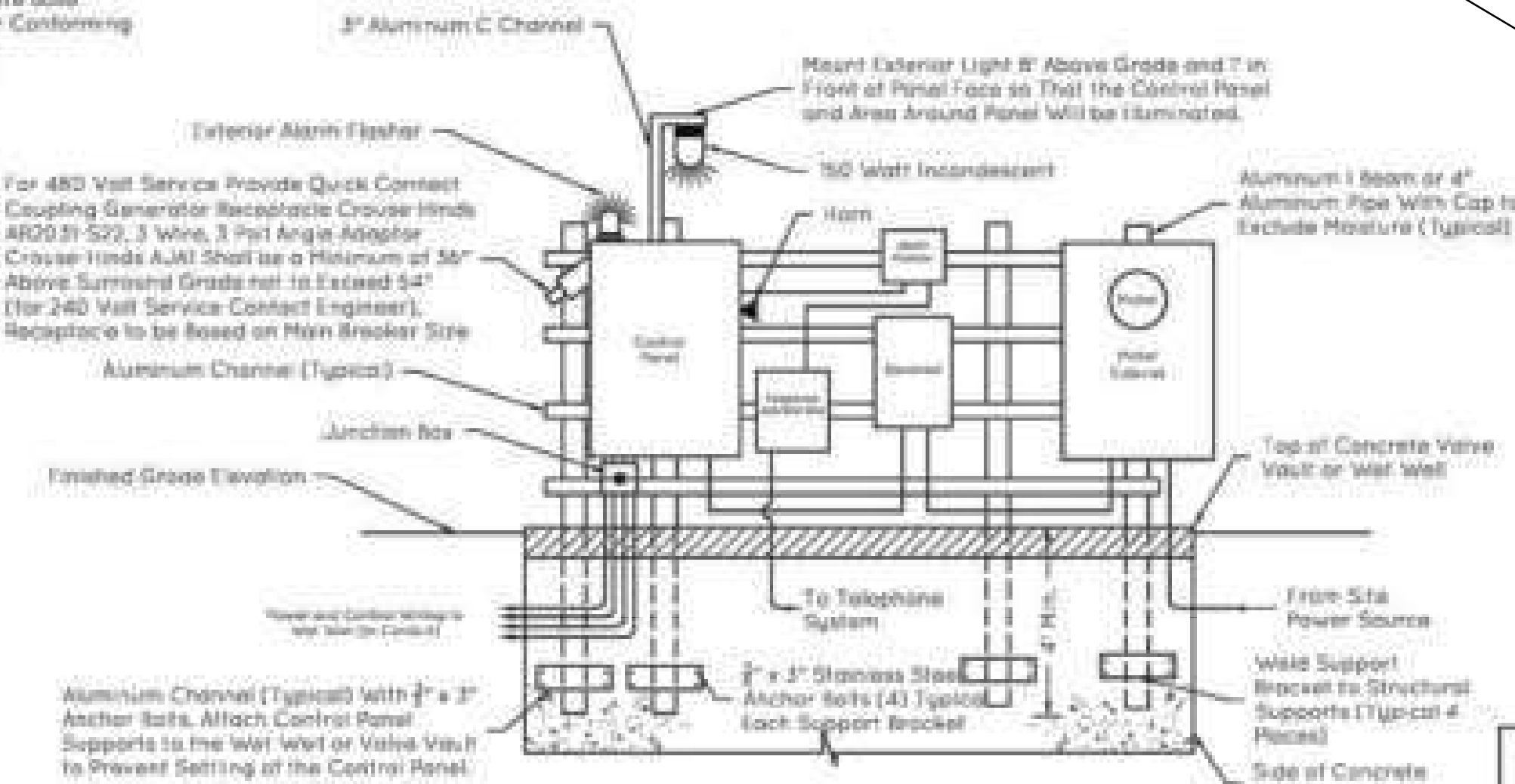
Design Engineers Certification of Actual Pump Station Dimensions, Control Settings, & Pump Selection as Indicated on Pump Station Schedule.

Reminder - For Pump Station Site Plan Data Project Engineer Shall Provide:

- 1) Wet Well and Valve Vault Orientation
- 2) Control Panel Location
- 3) Fencing and Gate Locations
- 4) Asphalt Access Drive from Public Right-of-Way
- 5) Parking Stops
- 6) Grading and Drainage Arrows
- 7) Boundary of Pump Station Parcel to be Granted to Fishers
- 8) Area for Emergency Generator
- 9) All Other Information That Will Allow for a Detailed Review of the Site Plan

DATE _____

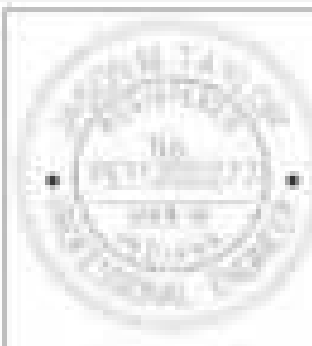
Notes:
This certification is limited to those standards and guidelines per this sheet, and does not include information written into Pump Station Schedule. Construction is subject to construction drawings, shop drawings, and Design Engineer's design data written into Pump Station Schedule, and its certification thereof.



- STANDARD PUMP STATION NOTES**
- 1) Actual pump station dimensions, control settings, and pump selection to be as indicated by the design engineer's certification of the data written into the Submersible Pump Station Schedule, this sheet.
 - 2) High level alarm elevation shall be set at least 6" below the lowest incoming gravity pipe.
 - 3) Glycerin-filled pressure gauges shall be provided as manufactured by Ashcroft, or equal. The gauges shall have an operating range appropriate for the system pressure and shall display in both feet and psi. Each gauge shall be provided with an in-line snubber and a shut-off valve. The pipe shall be drilled and tapped wherever possible.
 - 4) Piping in and within the zone of influence of the excavation of the wet well, valve vault, and meter pit structure, shall be Class 53 flanged D.I. pipe or Class 50 D.I. pipe for direct bury. The minimum dimension for D.I. pipe outside of a structure is ten (10) feet. All fasteners within pump station structures, shall be 316 S.S.
 - 5) Design engineer shall space discharge piping in accordance with pump and piping dimensions and pump manufacturer's recommendations.
 - 6) Piping and fittings in wet well, valve vault, and meter pit shall be in accordance with City of Fishers construction specifications.
 - 7) Butyl rubber shall be applied to all exterior structure joints that are below grade. The Butyl rubber shall extend six (6) inches above and below the joint.
 - 8) Pump Station wet well, valve vault, and meter pit manholes shall be pre-cast concrete in accordance with ASTM C-476, with rubber gaskets, in accordance with the City of Fishers Construction Specifications.
 - 9) Comstock coupling and eccentric plug valve on by-pass line shall be 6 inch diameter with transition to force main size occurring with concentric reducer placed on the top of base elbow. The plug valve's operating nut shall be directly accessible with a standard tee wrench. Show location on the structure layout sketch required in Note 15.
 - 10) Sewer connections and force main penetrations of wet well, valve vault, and meter pit structure shall be KOR-N-SEAL, A-LOK, or Dura-Seal, in accordance with the City of Fishers Construction Specifications. Portland cement grout may be used to seal penetrations on non-sewer connections.
 - 11) Generator receptacle, with factory sealed switch, shall match to receive of the City of Fishers' portable generator set.
 - 12) Provide an Allen Bradley or "Engineer Approved" SCADA System that incorporates 1 spare input/output, 1 input for flowmeter 4-20mA signal, 5 outputs to control being lead remote on, lead remote off, lag remote on, lag remote off and remote alarm acknowledge, and 10 inputs from control being hatch(es) open alarm, panel(s) open alarm, Pump "A" on, Pump "B" on, Pump "A" fail, Pump "B" fail, phase fail alarm, power fail alarm, high water alarm and pump(s) seal failure, remote lead pump override and remote lag pump override.
 - 13) Electromagnetic Flowmeter shall be a Siemens series 5100W or "Engineer Approved", flanged, with remote transmitter and accidental submergence kit. Interconnecting cable for power to transmitter shall be provided of appropriate length for application. Flowmeter transmitter shall be integral mounted and shall produce a 4-20mA signal for use by the SCADA System. Flowmeter size shall be based upon the projected flow through the force main, the force main size, and per the manufacturer's recommendation for highest accuracy over the operational range of the lift station.
 - 14) Provide an aluminum double-door access hatch and frame assembly with safety man catches for pump station wet well to be installed in concrete top. Pump manufacturer shall size door opening in order to facilitate ease in removing pumps from wet well. Contractor and pump manufacturer shall coordinate to match size and location of opening in concrete top to dimensions of hatch provided by pump manufacturer.
 - 15) Provide an aluminum single-door access hatch and frame assembly with safety man catches for valve vault and meter pit, respectively, to be installed in concrete top. The contractor and pump manufacturer shall provide a dimensionally accurate sketch of the valve vault and meter pit showing all valves, piping, and equipment to confirm the proper location and size of the access hatch for the structure.

- Notes:**
- 1) See Fishers' Pump Station and Force Main Specifications Sheet for details of equipment.
 - 2) This plan is for design purposes only.
 - 3) Access drive from nearest public Right-of-Way to pump station must be provided.
 - 4) The access drive must have a minimum of 14 feet of clearance from all utility or power poles.
 - 5) All station piping must be Ductile Iron.
 - 6) A "live" yard hydrant shall be installed inside fence area (if possible) and close to fence, to provide water service for pump station maintenance purposes. Backflow preventer as required by water company.

THESE SANITARY SEWER DETAILS AND FISHERS SANITARY SEWER SPECIFICATIONS ARE COMPLEMENTARY IN NATURE AND SHOULD NOT BE INTERPRETED INDIVIDUALLY WITHOUT REFERENCE TO THE OTHER.



CITY OF FISHERS
STANDARD CONSTRUCTION DETAILS

SANITARY SEWER DUPLEX PUMP STATION DETAILS AND NOTES

SHEET

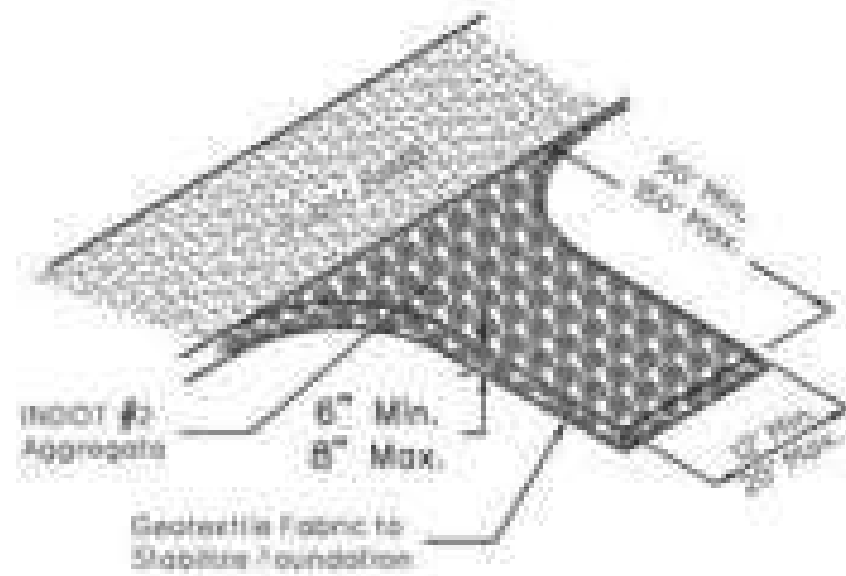
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GENERAL SWWP NOTES FOR INDIVIDUAL LOTS

- 1) All storm water quality measures, including erosion and sediment control, necessary to comply with the requirements for 327 IAC 15-5; Rule 5, City of Fishers, and/or general construction practices must be implemented in accordance with the plan and sufficient to satisfy Chapter 7 of the City of Fishers STSM.
- 2) Provisions for erosion and sediment control on individual building lots regulated under the original permit of a project site owner must include the following requirements:
- 231) The individual lot operator, whether owning the property or acting as the agent of the property owner, shall be responsible for erosion and sediment control requirements associated with activities on individual lots.
- 232) Installation and maintenance of a stable construction site access.
- 233) Installation and maintenance of appropriate perimeter erosion and sediment control measures prior to land disturbance.
- 234) Sediment discharge and tracking from each lot must be minimized throughout the land disturbing activities on the lot until permanent stabilization has been achieved.
- 235) Clean-up of sediment must be redistributed or disposed of in a manner that is in compliance with all applicable statutes and rules.
- 236) Adjacent lots disturbed by an individual lot operator must be repaired and stabilized with temporary or permanent surface stabilization.
- 3) In accordance with Chapter 7 of the City of Fishers STSM, final stabilization of an individual lot project site is achieved when:
- 331) All land disturbing activities have been completed.
- 332) The establishment, at a uniform density of seventy percent (70%) across one-hundred percent (100%) of the disturbed area, of vegetative cover or permanent non-erodible material that will ensure the resistance of the soil to erosion, sliding, or other movement.

CONSTRUCTION SEQUENCE FOR INDIVIDUAL LOTS

- 1) Clearly delineate areas of trees, shrubs, and vegetation that are to be undisturbed. To prevent root damage, the areas delineated for tree protection should be at least the same diameter as the crown.
- 2) Install perimeter silt fence of construction limits. Position the fence to intercept runoff prior to entering drainage swales.
- 3) Avoid disturbing drainage swales if vegetation is established. If drainage swales are bare, install erosion control blankets or sod to immediately stabilize.
- 4) Install appropriate inlet protection for all inlets on the property.
- 5) Install curb inlet protection, on both sides of the road, for all inlets along the property frontage and along the frontage of adjacent lots, or install temporary catch basin inserts in each inlet and frequently clean.
- 6) Install gravel construction entrance flush with the back of existing curb, extending from the street to the building pad.
- 7) Perform primary grading operations.
- 8) Contain erosion from any soil stockpiles created on-site with silt fence around the base.
- 9) Establish temporary seeding and straw mulch on disturbed areas.
- 10) Construct the home and install utilities.
- 11) Install downspout extenders once the roof and gutters have been constructed. Extenders should outlet to a stabilized area.
- 12) Re-seed any areas disturbed by construction and utilities installation with temporary seed mix that will be left inactive for seven (7) days.
- 13) Grade the site to final elevations. Add topsoil as needed to minimize erosion of underlying soil and to quickly establish grass.
- 14) Install permanent seeding or sod.

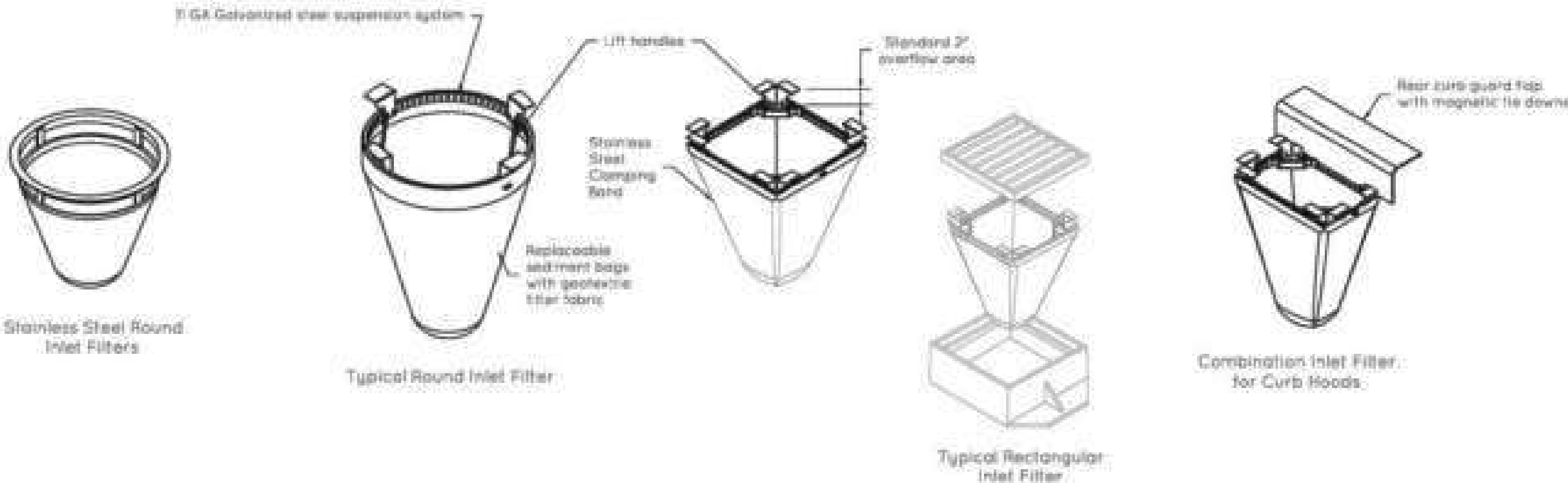


- Notes:
1. Must keep top of stone at road elevation.
2. Width to be adjusted to match wider entrance, if required.

Site Size	Entrance Width	Entrance Length	Stone Depth
Less than 2 acres	12' min	50' min	6\"
2 acres or more	30' min	50' min	8\"

TEMPORARY GRAVEL CONSTRUCTION ENTRANCE

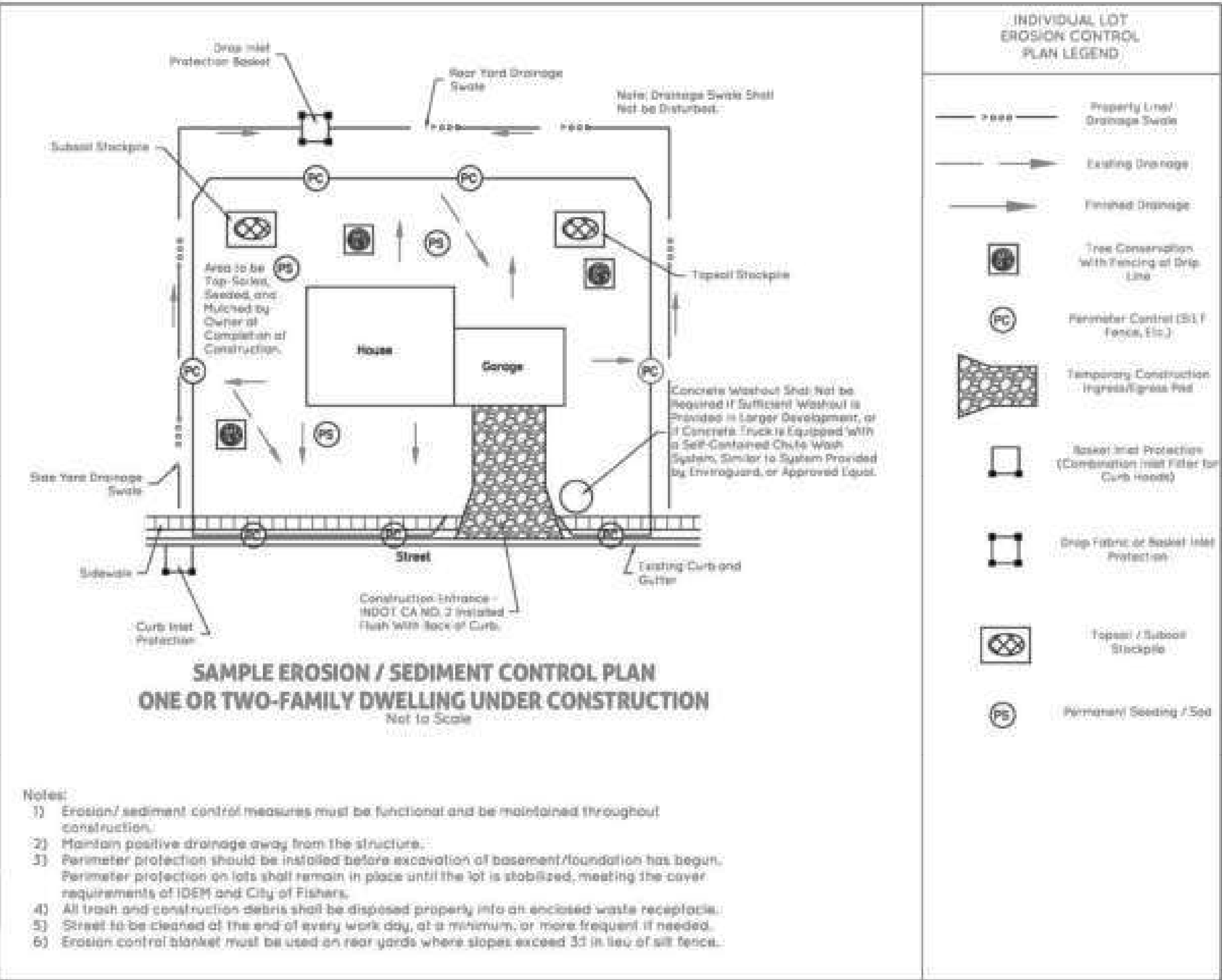
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- Notes:
- 1) Measures to be used in accordance with manufacturer's stated installation and maintenance specifications, and limitations.

BASKET INLET PROTECTION

Not to Scale



SAMPLE EROSION / SEDIMENT CONTROL PLAN
ONE OR TWO-FAMILY DWELLING UNDER CONSTRUCTION

Not to Scale

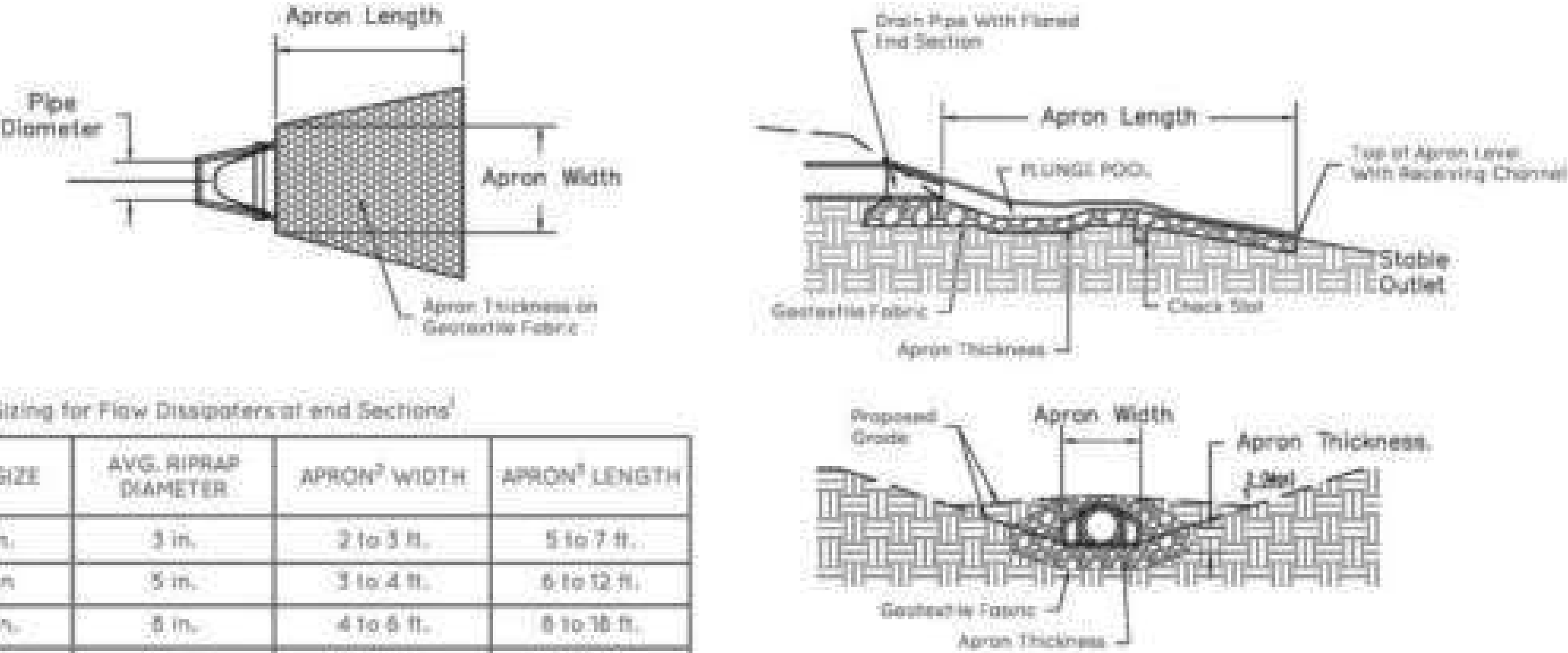


Table 1. Sizing for Flow Dissipaters at end Sections¹

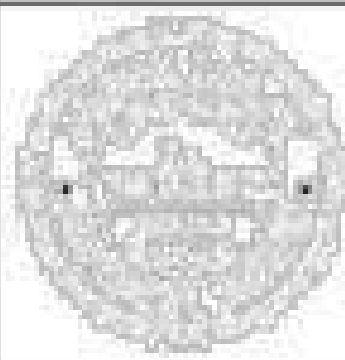
PIPE SIZE	AVG. RIPRAP DIAMETER	APRON ² WIDTH	APRON ³ LENGTH
6 in.	3 in.	2 to 3 ft.	5 to 7 ft.
12 in.	5 in.	3 to 4 ft.	6 to 12 ft.
16 in.	8 in.	4 to 6 ft.	8 to 16 ft.
24 in.	10 in.	6 to 8 ft.	12 to 22 ft.
30 in.	12 in.	8 to 10 ft.	14 to 28 ft.
36 in.	14 in.	10 to 12 ft.	16 to 32 ft.

- 1-For Larger or Higher Flows Consult a Registered Engineer
- 2-Apron Width at the Narrow End of Apron (Pipe or Channel Outlet)
- 3-Select Length Taking into Consideration the Low Flow (Net Pressure Head) or High Flow (Pressure Head) Conditions of the Culvert Pipe.

ENERGY DISSIPATER (OUTLET PROTECTION)

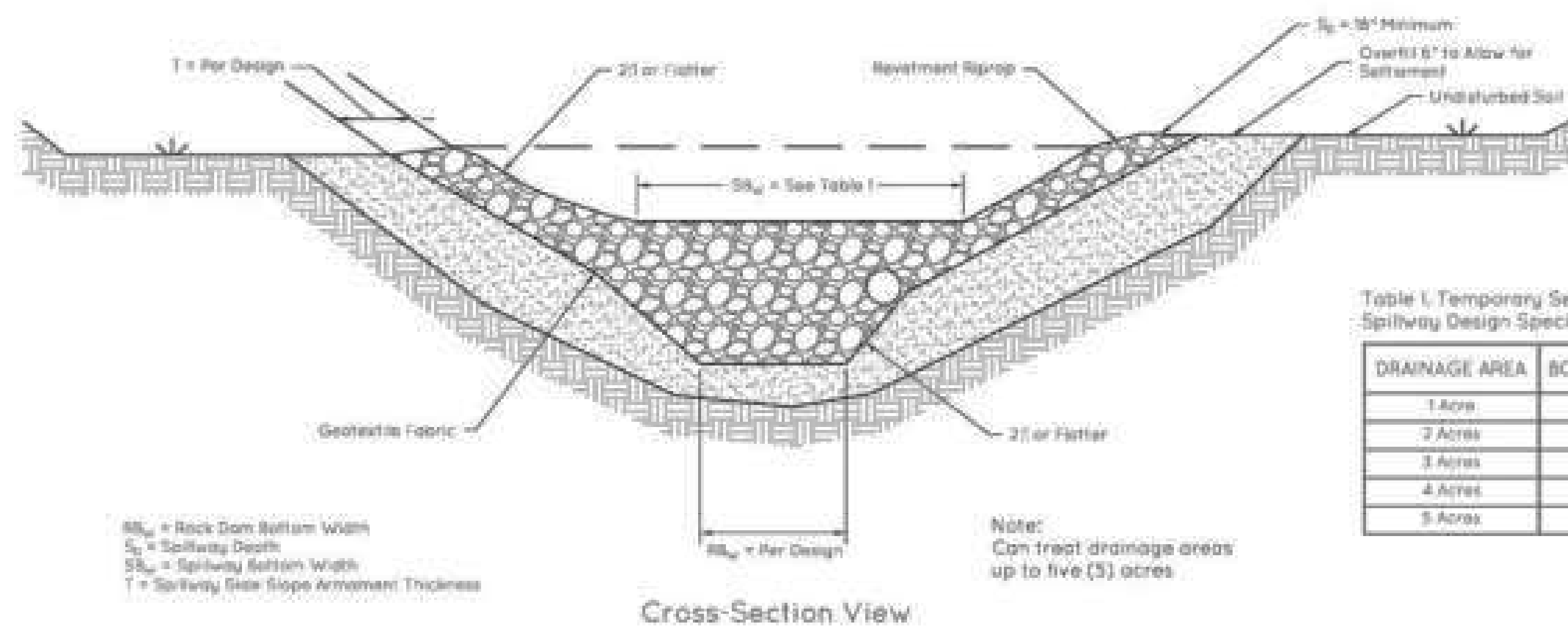
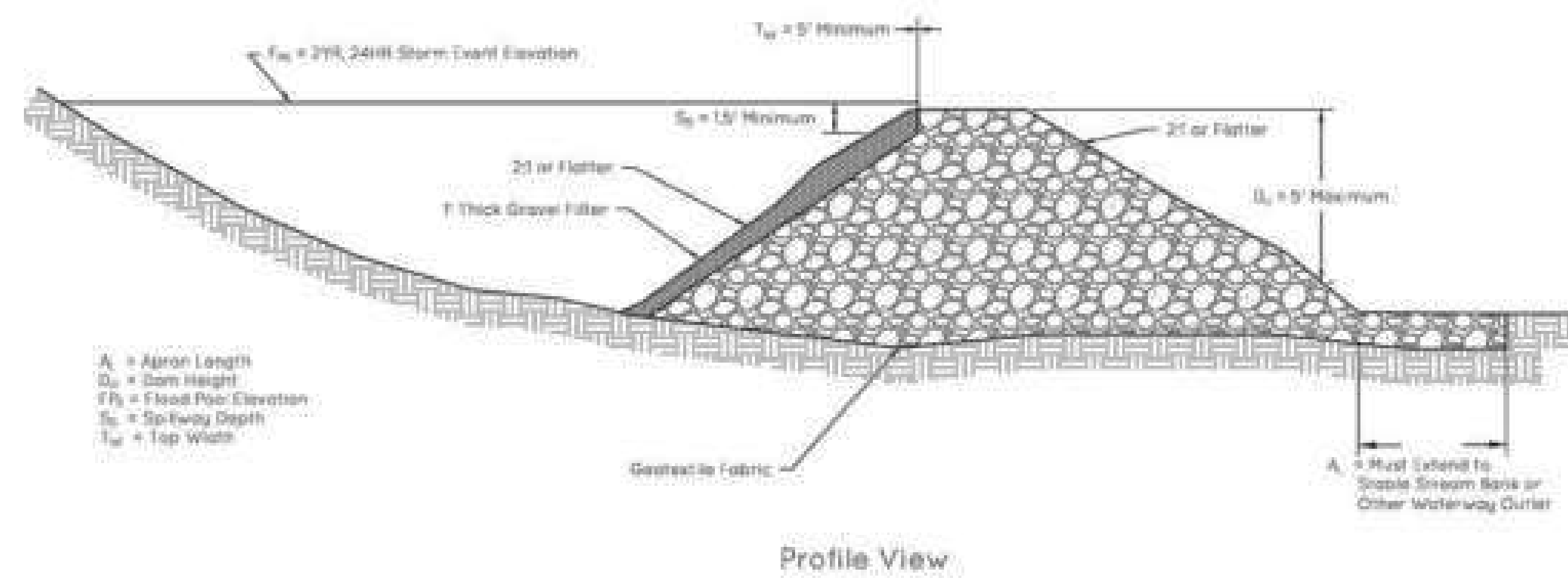
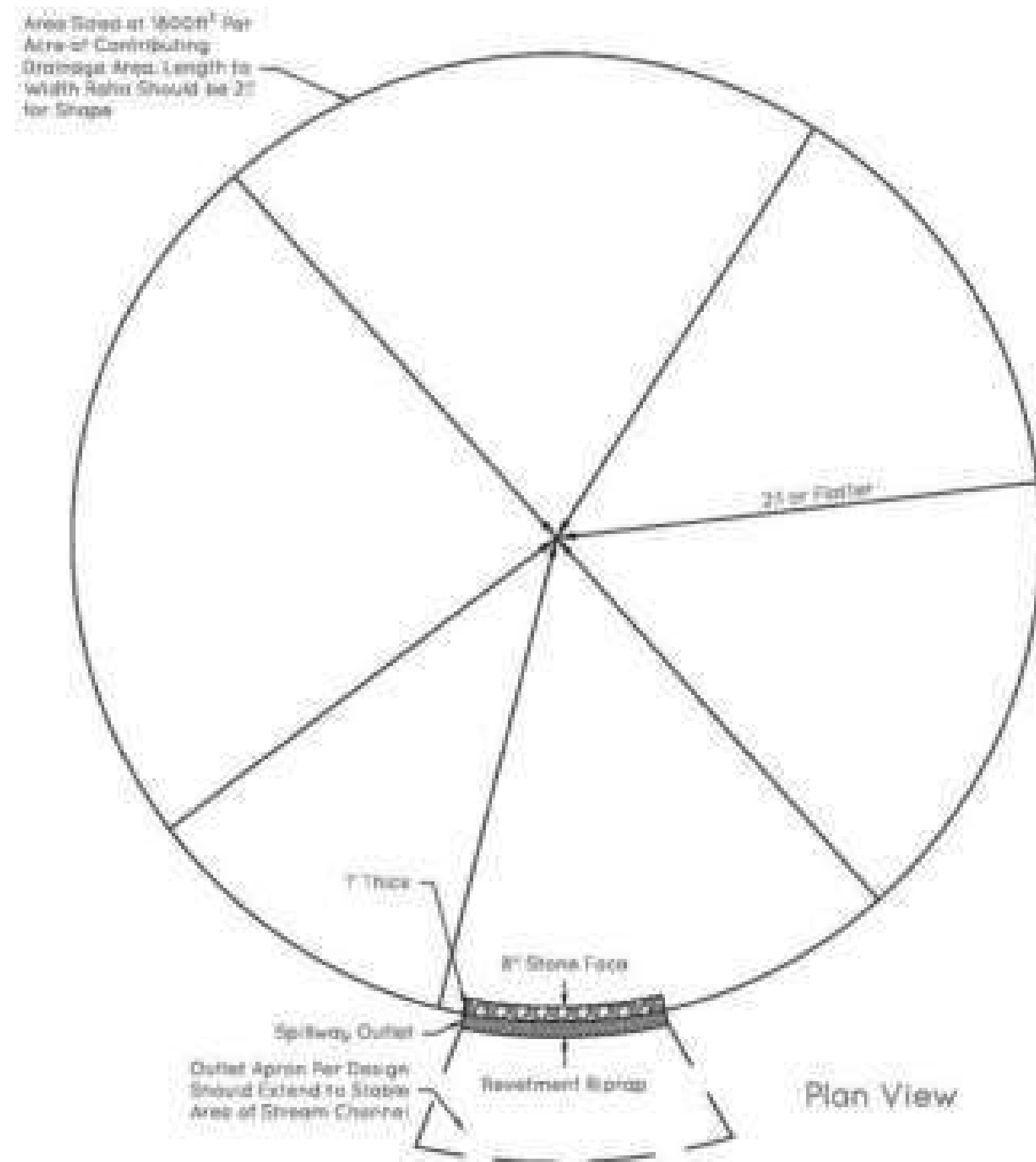
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1/18/2019



CITY OF FISHERS
STANDARD CONSTRUCTION DETAILS
EROSION CONTROL DETAILS

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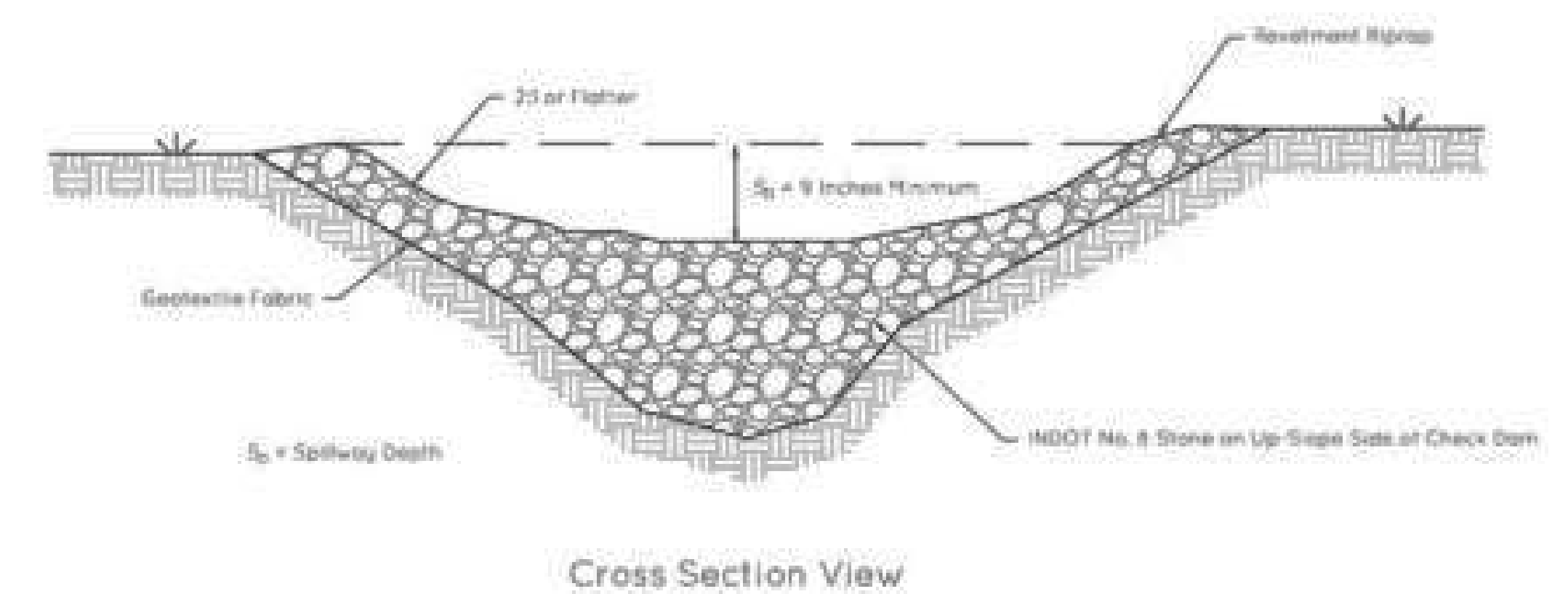
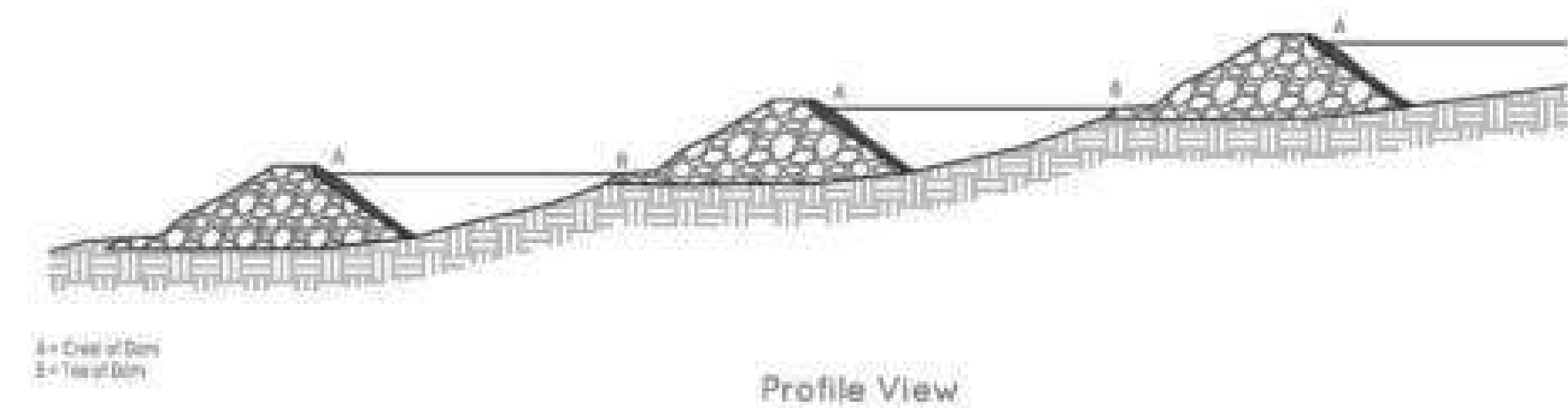
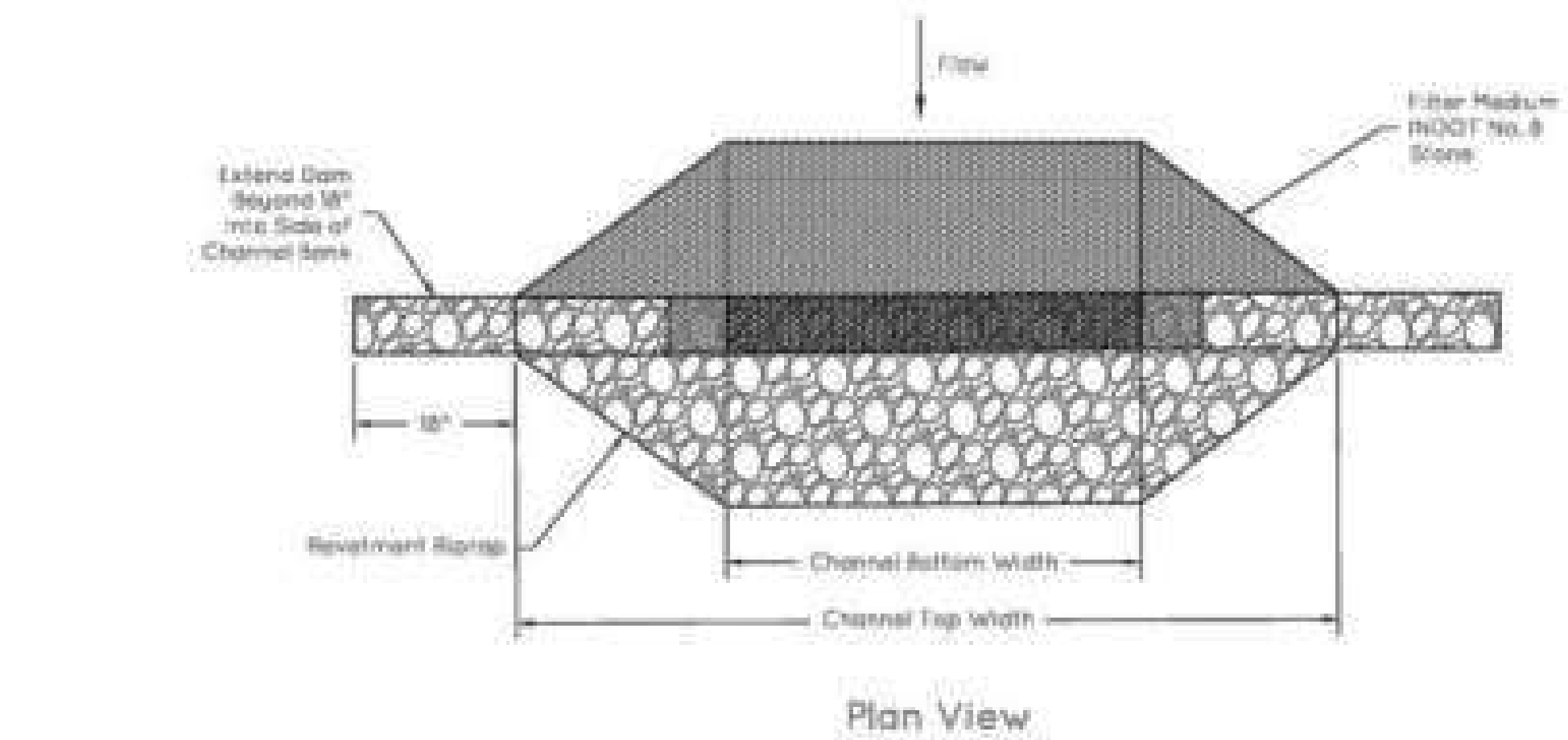
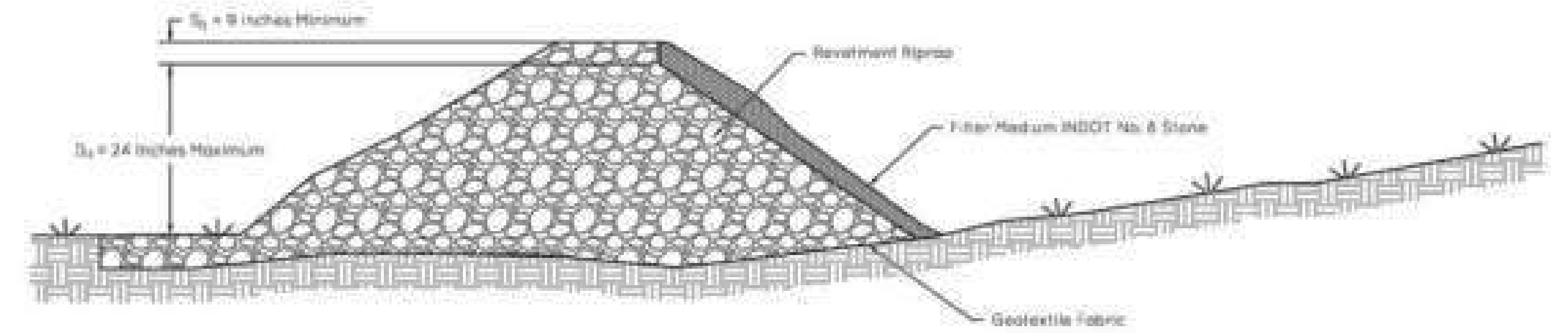


TEMPORARY SEDIMENT TRAP
Not to Scale

Table 1. Temporary Sediment Trap
Spillway Design Specifications

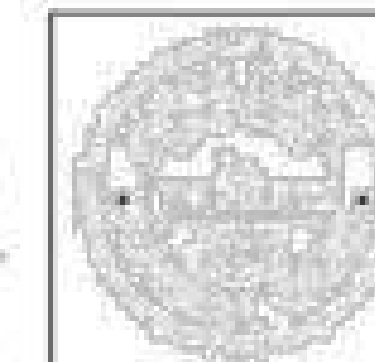
DRAINAGE AREA	BOTTOM WIDTH
1 Acres	4 Feet
2 Acres	6 Feet
3 Acres	8 Feet
4 Acres	10 Feet
5 Acres	12 Feet

Note:
Can treat drainage areas
up to five (5) acres



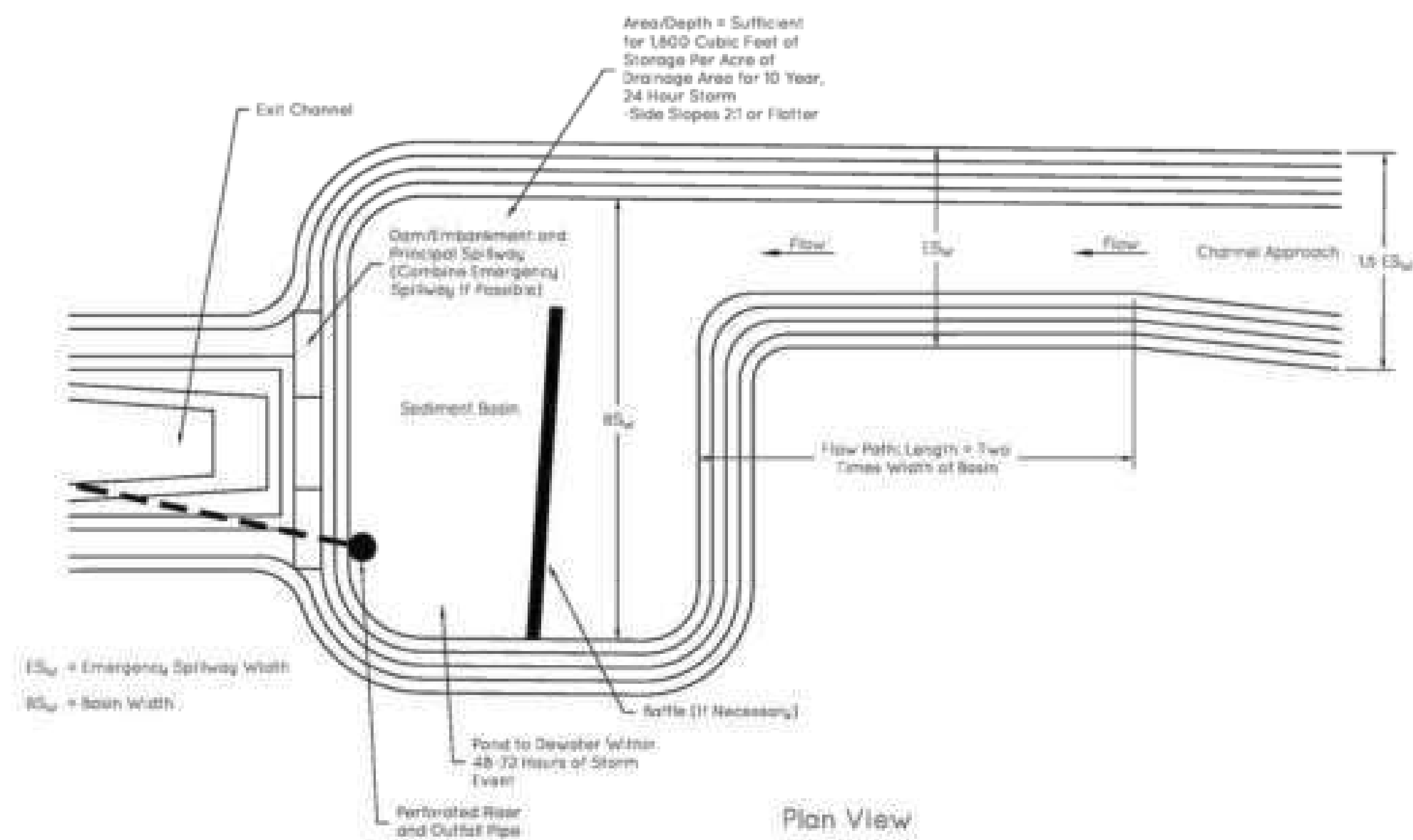
TEMPORARY ROCK CHECK DAM
Not to Scale

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1/18/2018

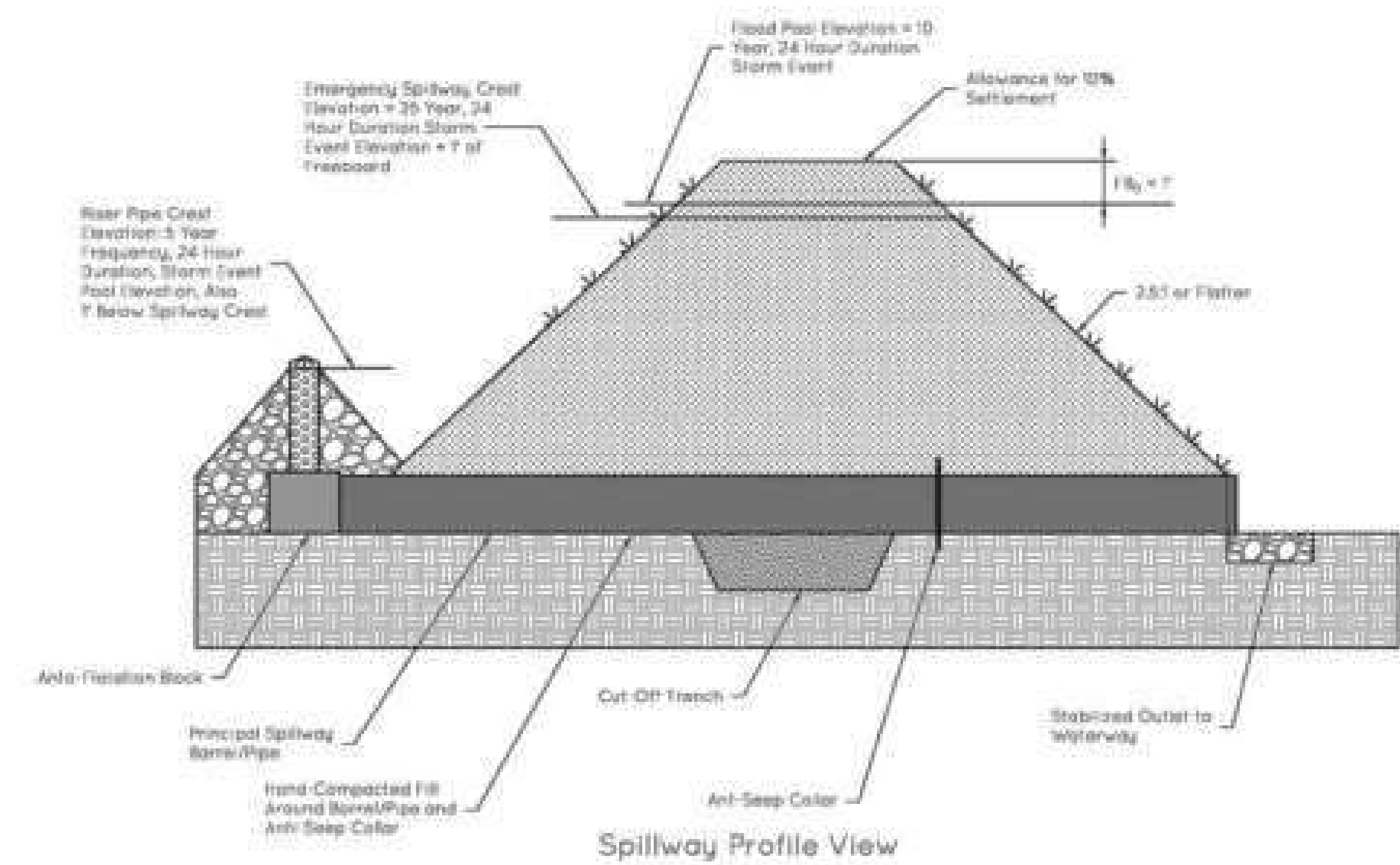
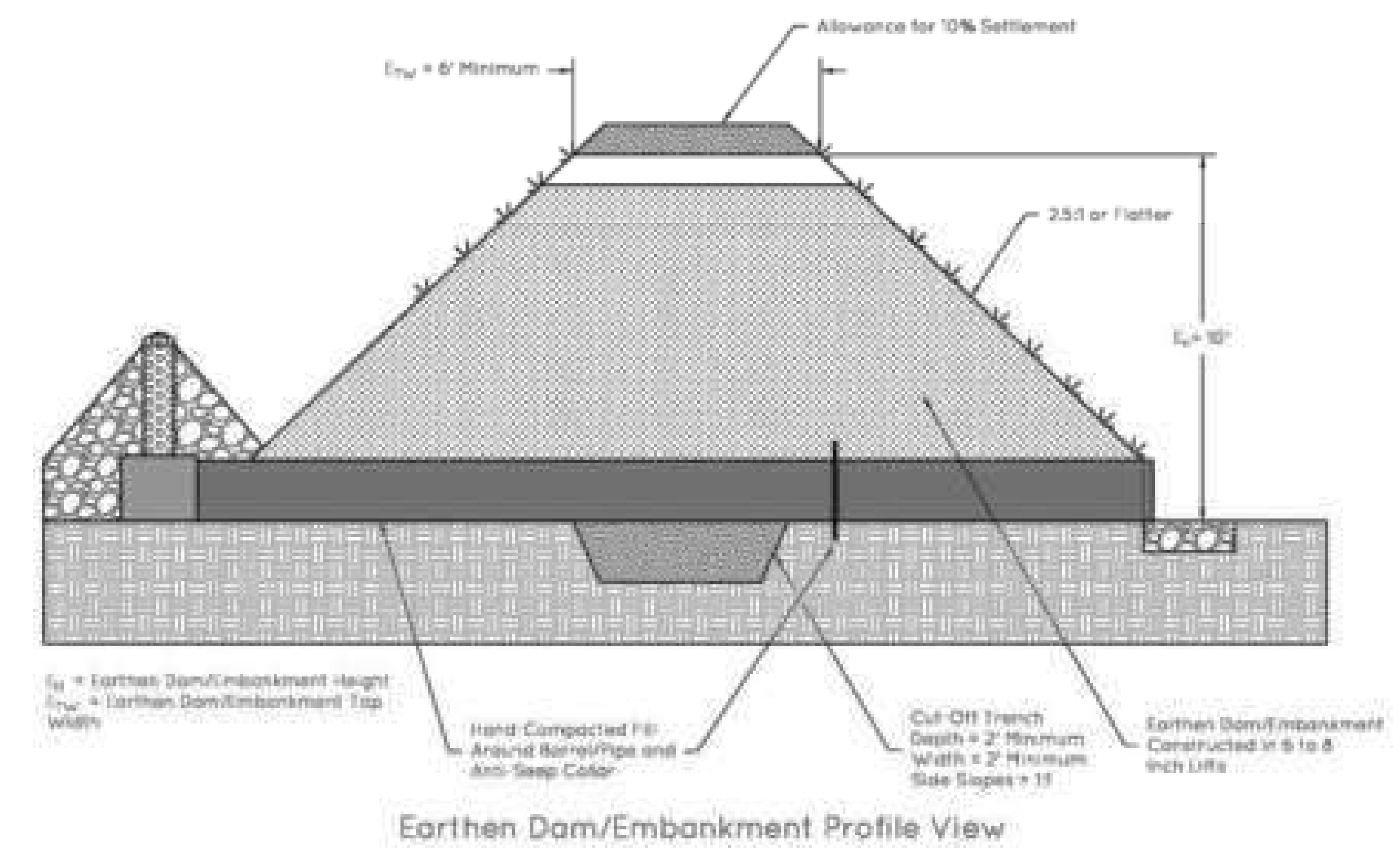
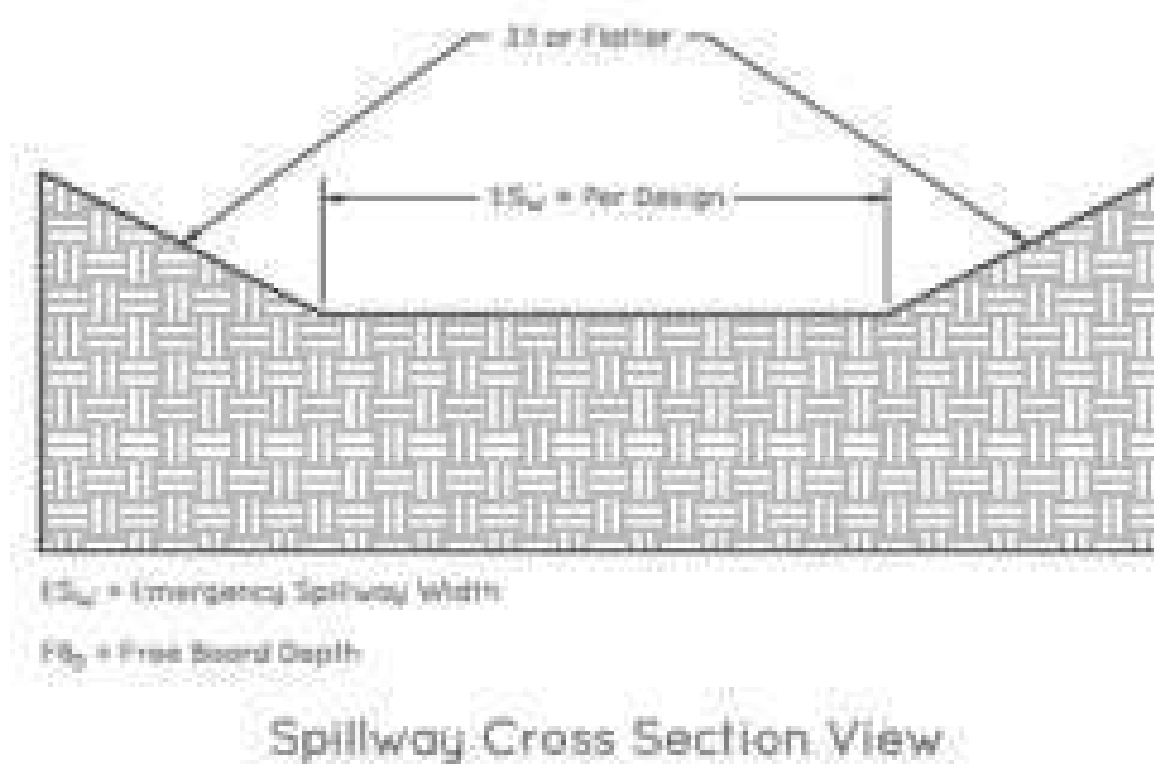
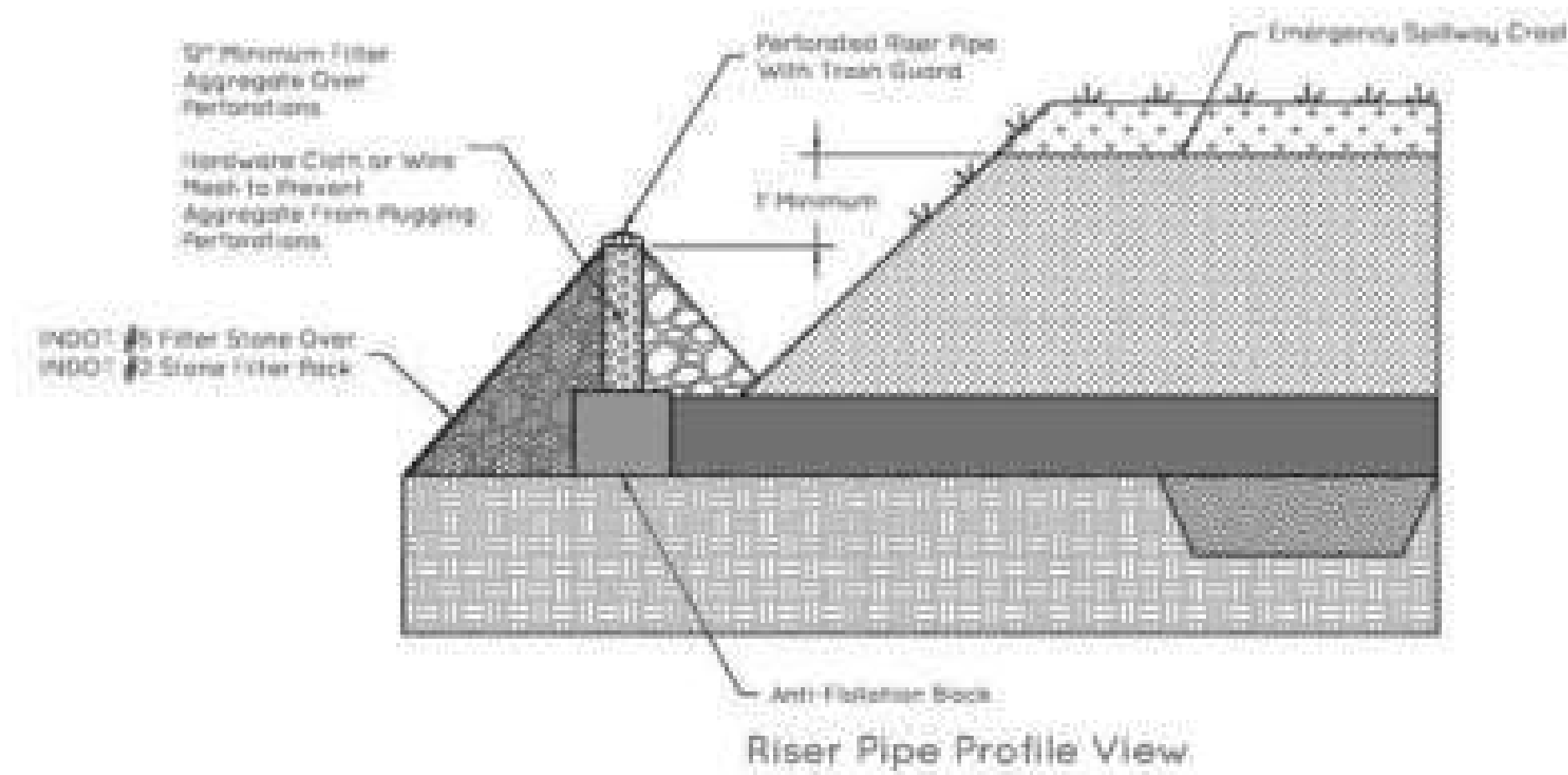


CITY OF FISHERS
STANDARD CONSTRUCTION DETAILS
EROSION CONTROL DETAILS

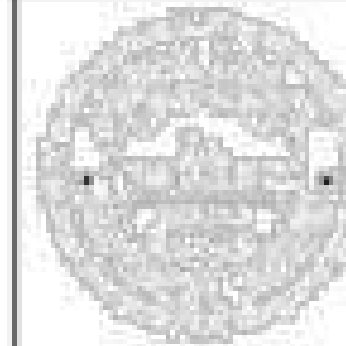
SHEET
25
of
29

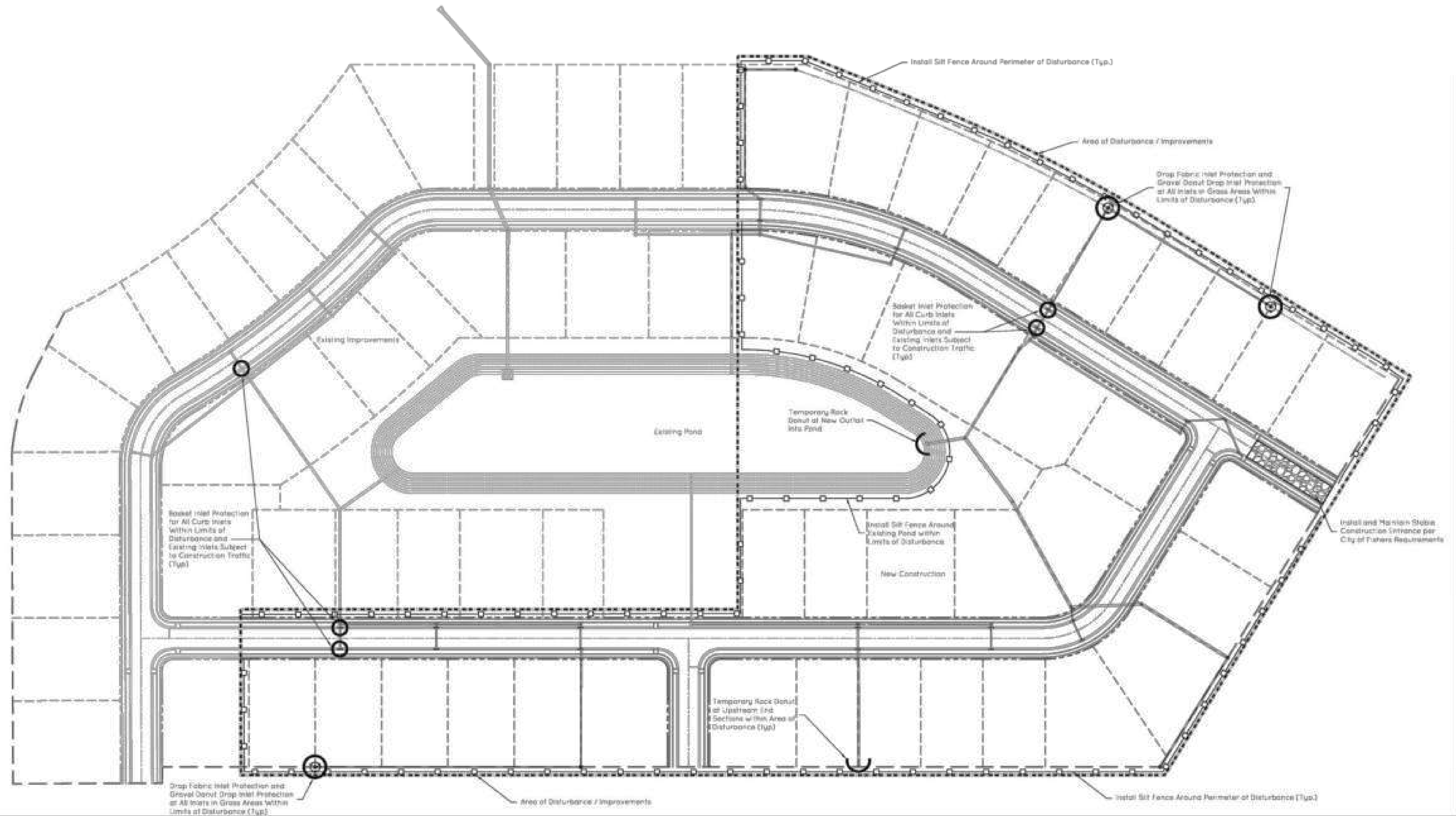


TEMPORARY SEDIMENT BASIN
Not to Scale



[Signature]
1/18/2011

	CITY OF FISHERS STANDARD CONSTRUCTION DETAILS		SHEET
	EROSION CONTROL DETAILS		26 of 29



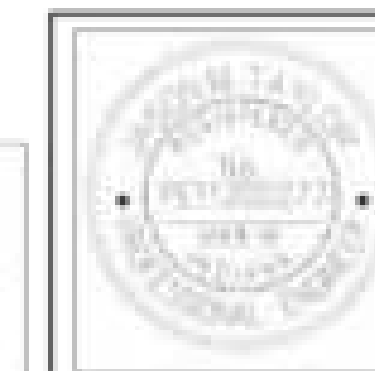
Notes:

- 1) Individual lot erosion control measures to be installed per details on Sheet 24, and in accordance with Indiana Stormwater Quality Manual.
- 2) Measures to be used in accordance with manufacturer's stated installation and maintenance specifications, and limitations.
- 3) Temporary and permanent stabilization to be installed as soon as possible. Re-seed any areas disturbed by construction and utilities installation that will be left inactive for seven (7) days with temporary seed mix.
- 4) Pond protection measures shown are example only. Additional measures may be required. Site specific SWPPP to be prepared and approved by the City of Fishers.

**PROTECTION OF EXISTING DETENTION POND -
EXAMPLE MEASURES**

Not to Scale

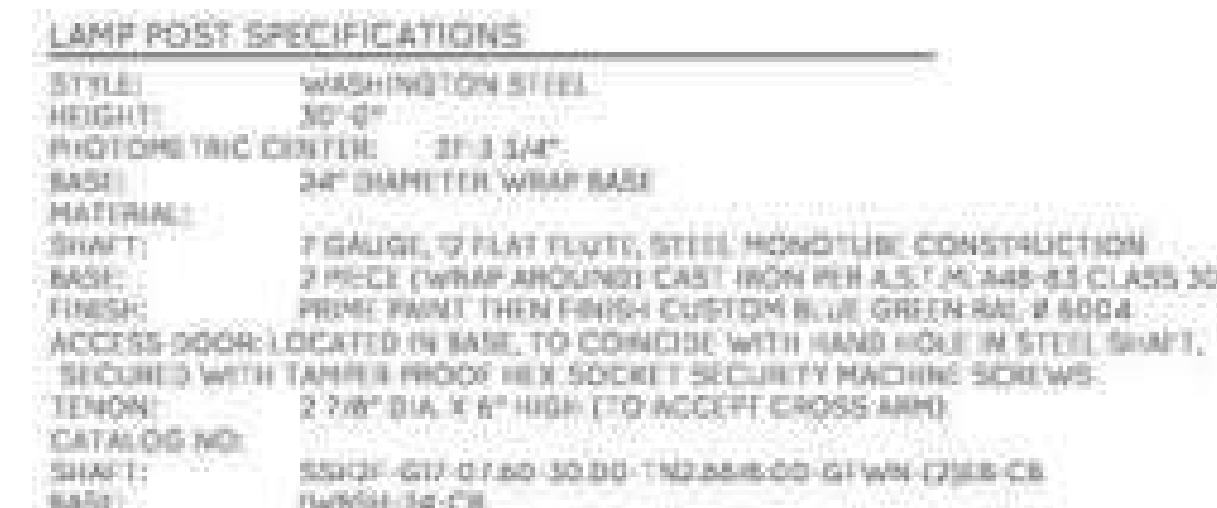
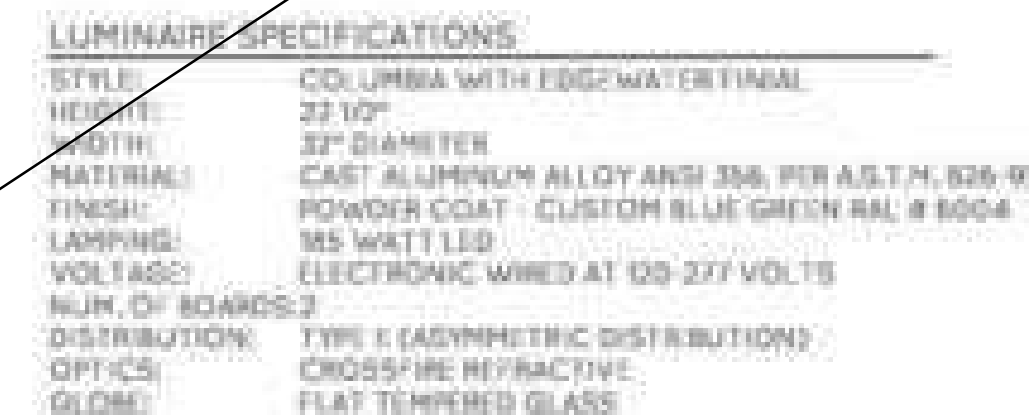
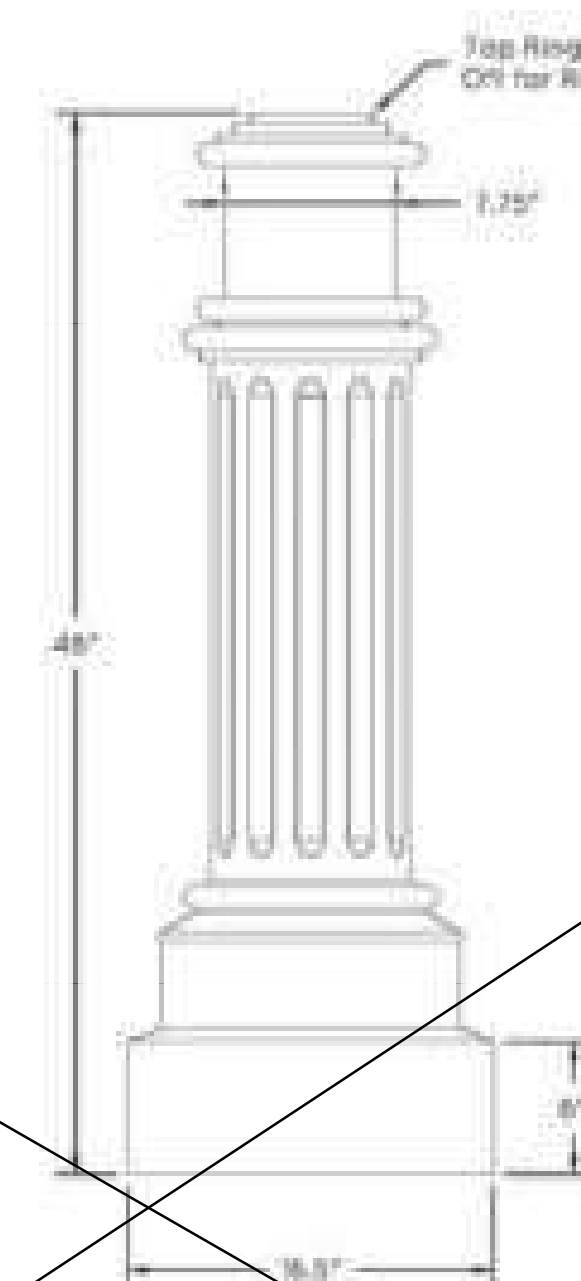
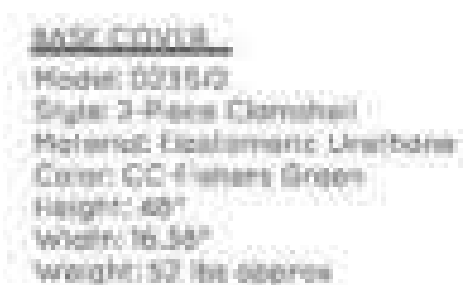
J. M. [Signature]
1/10/2017



**CITY OF FISHERS
STANDARD CONSTRUCTION DETAILS**

EROSION CONTROL DETAILS

SHEET
27
of
29



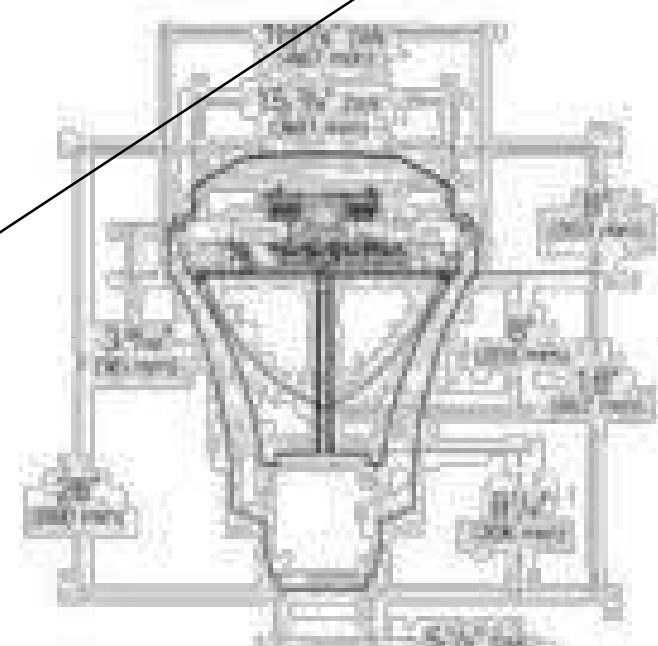
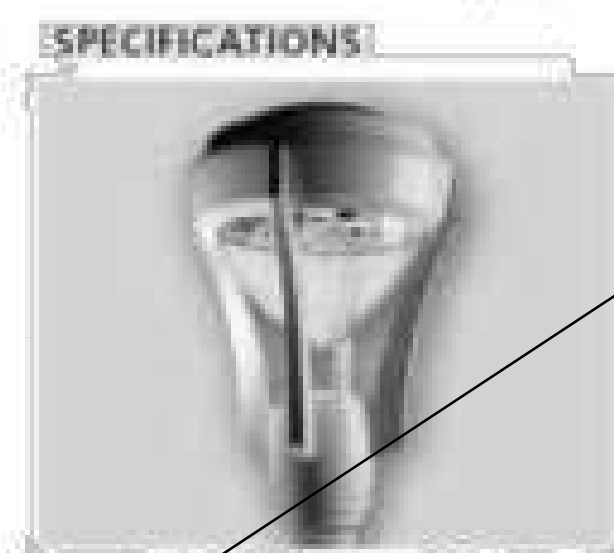
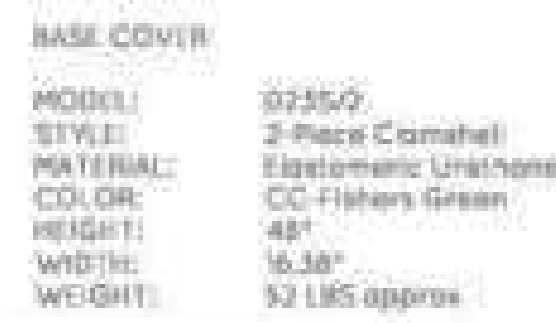
Notes:

- 1) All poles to be Fishers Green RAL 6004
- 2) Outlet wiring on lamp posts shall be such that the top outlet to be on only when lights are on. Bottom outlet shall remain on continuously.

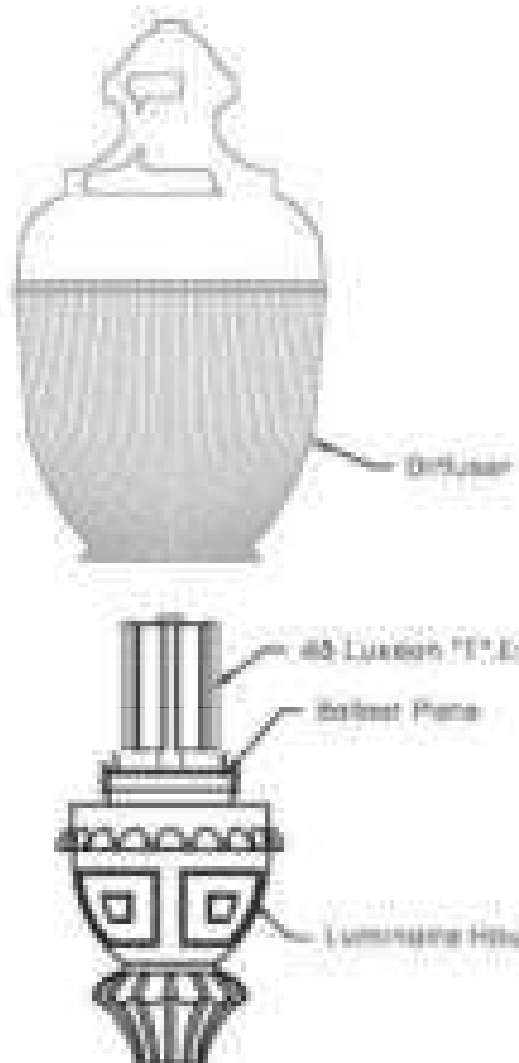
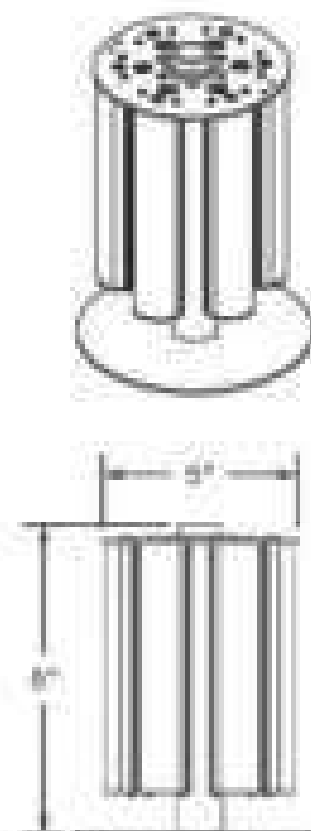
LAMP POSTS
Not to Scale

BASE COVER
Not to Scale

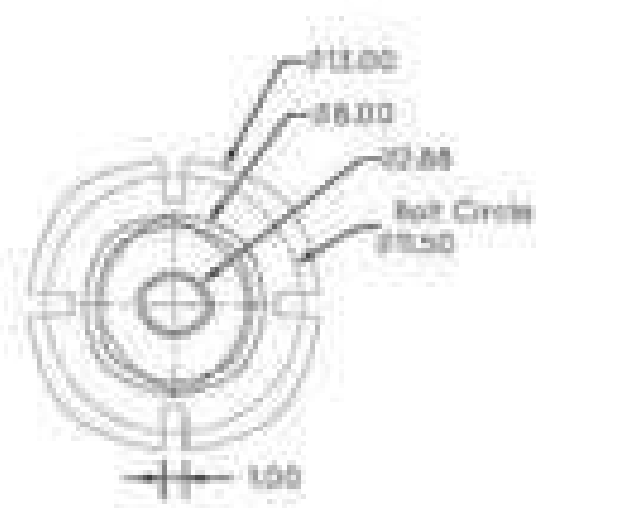
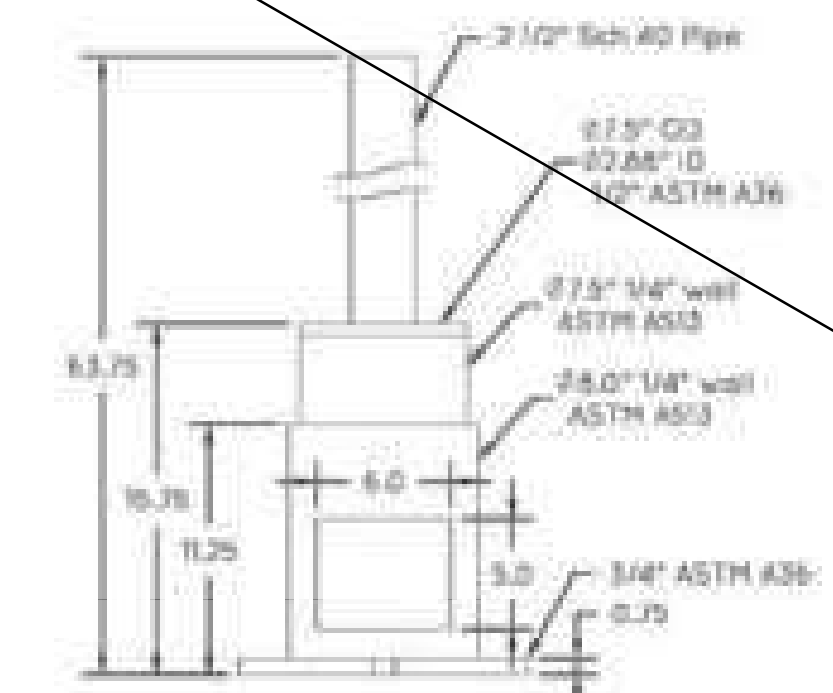
LAMP POSTS AND LUMINAIRES ADJACENT TO ROUNDABOUTS
Not to Scale



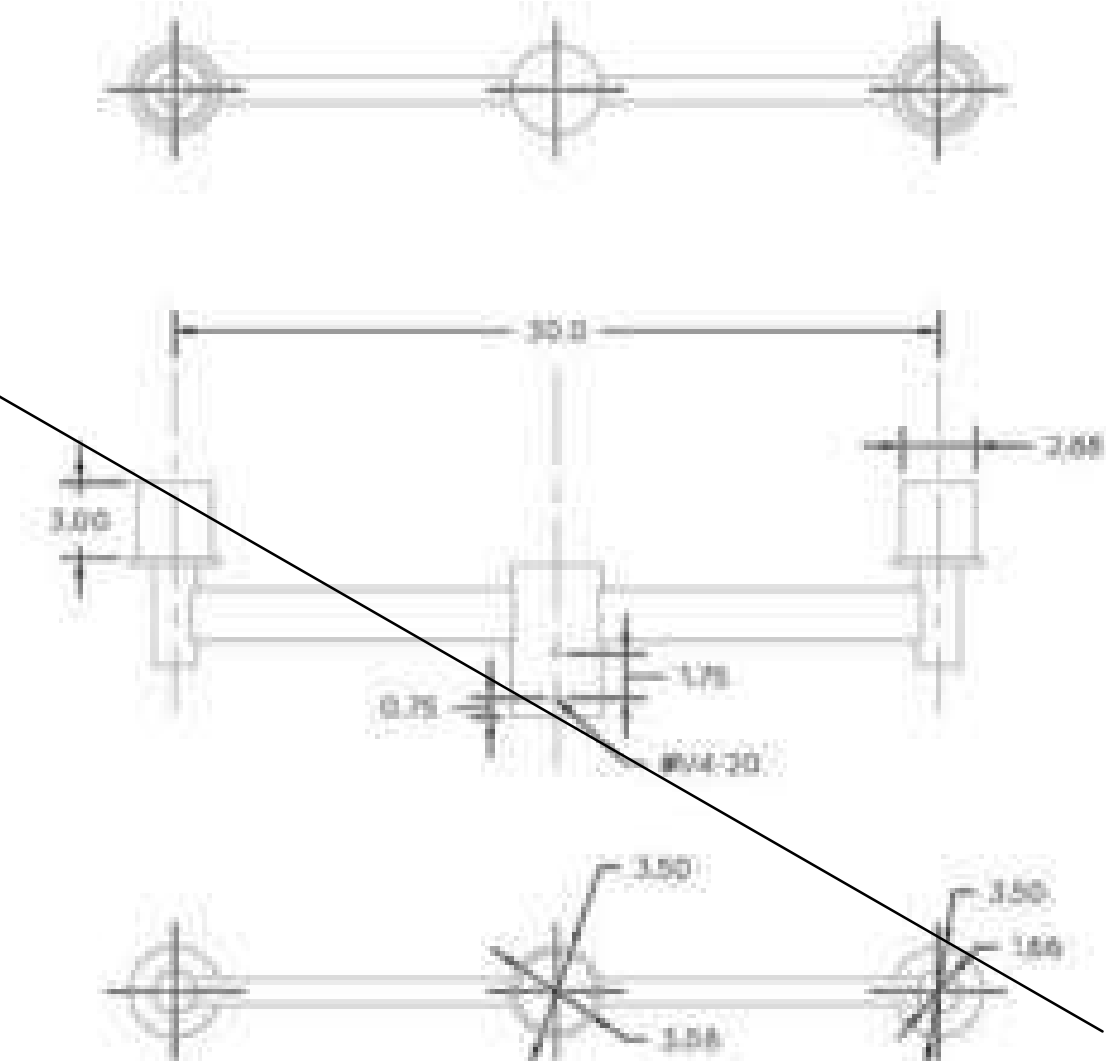
KIM LIGHTING-SOLITAIRE
Not to Scale



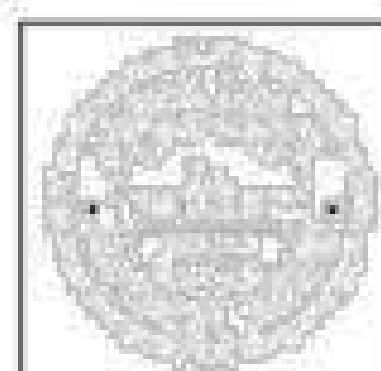
LED FIXTURES
Not to Scale



CUSTOM HAT BASE ASSEMBLY
Not to Scale



CROSS ARM
Not to Scale



CITY OF FISHERS
STANDARD CONSTRUCTION DETAILS

LAMP POST & LED FIXTURE
DETAILS

SHEET

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of
29



View from Rt. 37



View from Trade Center

Zoning

Building:
5,449 SF per level
10,898 SF total

Zoning:
PUD-C
2 Stories
Building height 35'
Landscape buffer

Required parking:
 Cafe 1 per 2 chairs, 50 chairs = 25 spaces.
 Car Sales 1 per 1,000 SF, 2,550 SF = 3 spaces.
 Offices 1 per 300 SF, 3,698 SF = 13 spaces.
 Total 41 Spaces Required.
 17 Auto display spaces
 32 Excess parking spaces

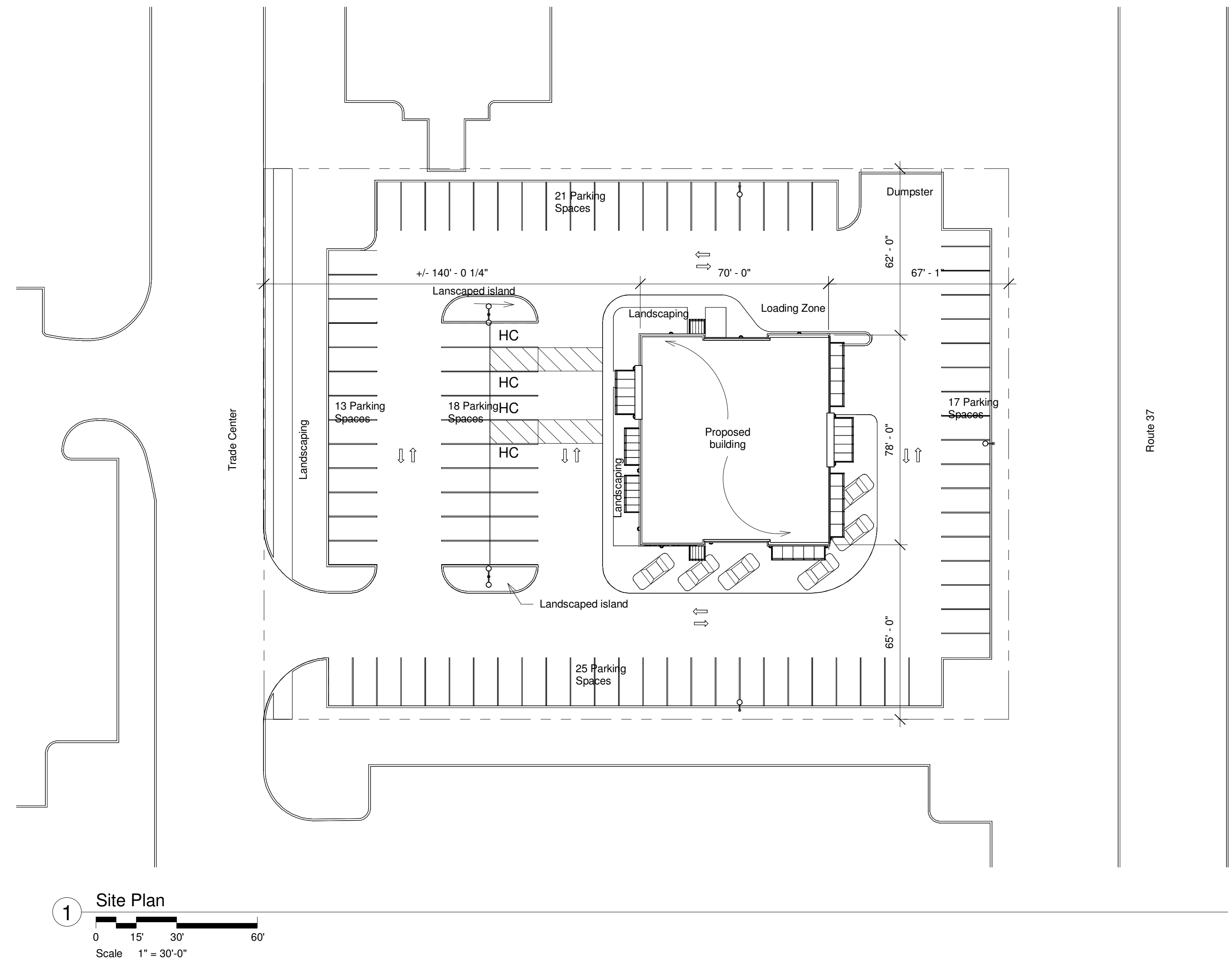
86 Parking spaces and 4 handicapped spaces. Total 90 Parking spaces.

[illegible]

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ConnectingSpaces, LLC

Samuel Center
Car Dealership/Tenant Space
14033 Trade Center
Fishers, IN 46038



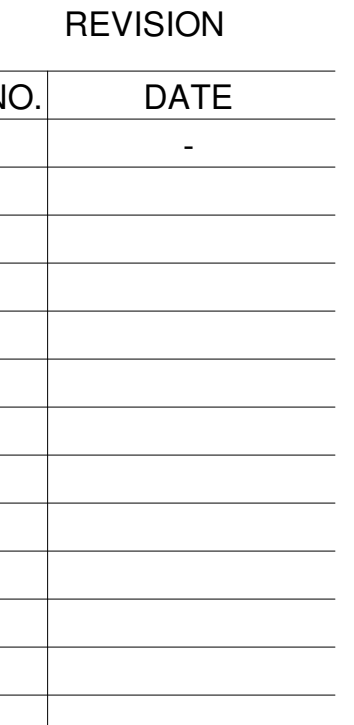
Preliminary Drawing Index	
Sheet Number	Sheet Name
A101	Site Cover Sheet
A102	Photometric
A103	Floor Plans
A201	Elevations

Site Cover Sheet



DATE: /29/2024

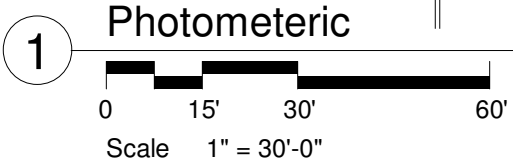
A101

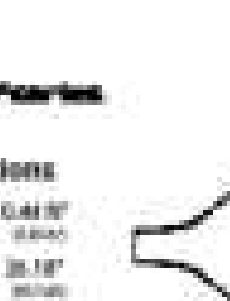


Samuel Center
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14033 Trade Center
Fishers, IN 46038



A102

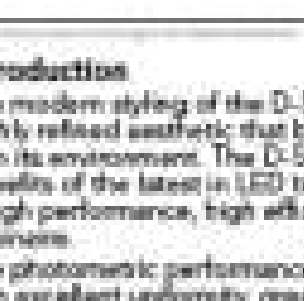




D-Series

D-Series Size 0

LED Area Luminaire



Specifications

CFM: 0.44 CFM (0.004 m³/s)

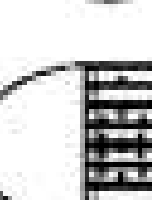
Length: 39.18" (995 mm)

Width: 18.06" (458 mm)

Height (H): 1.24" (31 mm)

Height (H2): 7.66" (195 mm)

Weight: 23 lbs (10.4 kg)





Introduction

The modern styling of the D-Series features a highly refined aesthetic that blends seamlessly with its environment. The D-Series offers the benefits of the latest in LED technology with a high performance, high efficacy, long-life luminaire.

The photometric performance results in areas with excellent uniformity, greater pole spacing and lower power density. D-Series outstanding photometric aids in reducing the number of poles required in new building applications, with typical energy savings of 70% and expected service life of over 100,000 hours.

design note 2

Items including a **100,000-hour** quality for the design listed program and up to 10 design hrs. (hours) must show design listed, and (www.creeled.com/designnote2)

*See website page for details

Ordering Information

EXAMPLE: DSK0 LED Pk 40K 70CR1TM INVOLT SR4 HLTN25 PIRIN D0R0

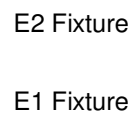
Item	Description	Quantity	Unit Price	Total Price
1	DSK0 LED Pk 40K 70CR1TM INVOLT SR4 HLTN25 PIRIN D0R0	1	\$1,200.00	\$1,200.00

Technical Specifications

Item	Description	Quantity	Unit Price	Total Price
1	DSK0 LED Pk 40K 70CR1TM INVOLT SR4 HLTN25 PIRIN D0R0	1	\$1,200.00	\$1,200.00

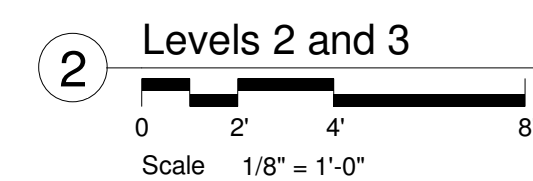
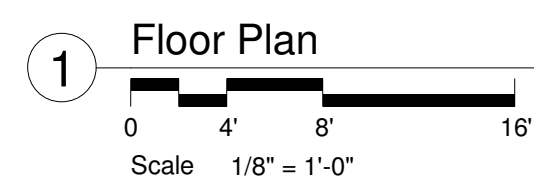
Accessories

Item	Description	Quantity	Unit Price	Total Price
1	DSK0 LED Pk 40K 70CR1TM INVOLT SR4 HLTN25 PIRIN D0R0	1	\$1,200.00	\$1,200.00



1. Restrooms to be appropriately identified with signage. (See G101)
2. Upon completion owner must post building occupant load, live load, use group and construction type with appropriate signage. (See G101)
3. Dimension shown are approximate and should be field verified.

 Fire extinguishers, 2A, per code



Interior Wall Schedule					
Type Mark	Description	UL	Rating	Width	Comments
A	5/8" GWB, 3-5/8" 20 GA Metal studs @ 16" OC, 5/8" GWB			<varies> 4 7/8"	

Professional Engineer Seal for Donald A. Highlander, State of Tennessee, License No. 080182.

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**56 Milford Drive, Suite 2
Hudson, Ohio 44236
(330) 653-5320 V
(330) 653-5320 F
on@connectingspaces.com
www.connectingspaces.com**

Floor Plans



DATE:
29/2024

A103

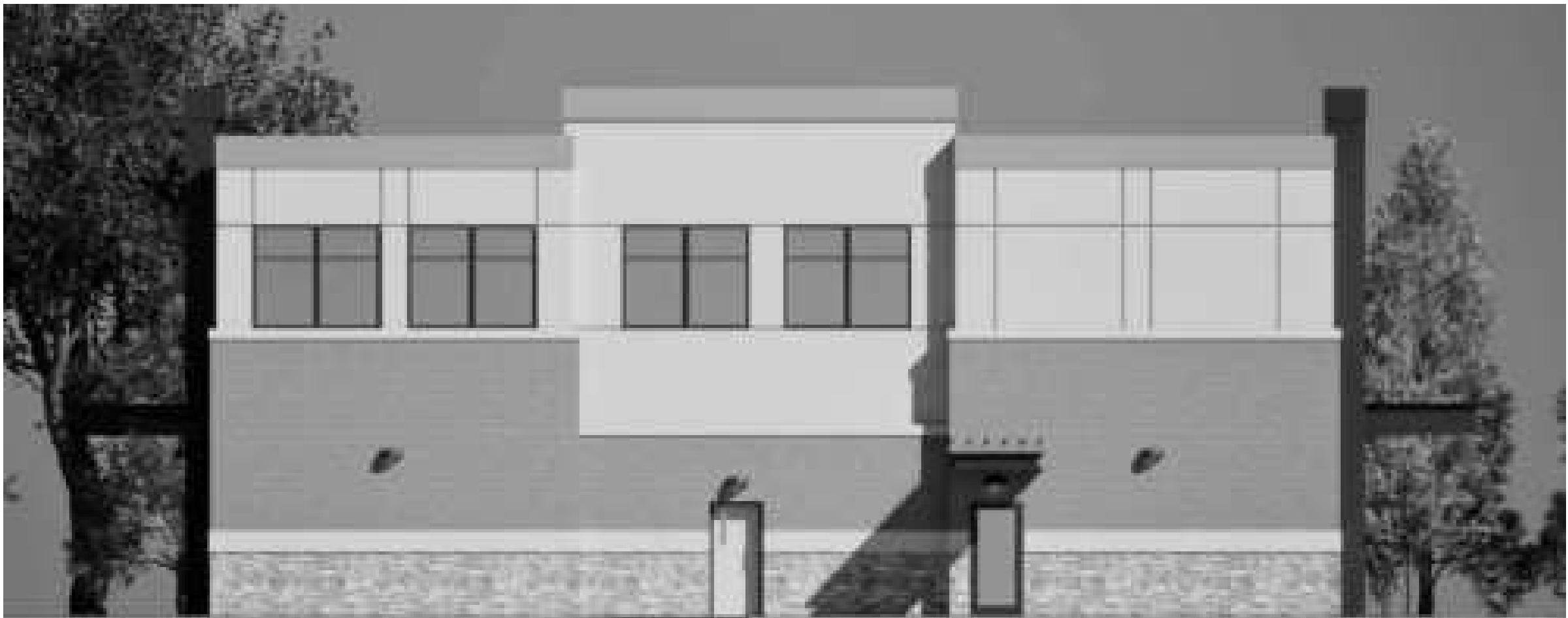


Elevation Coded Notes	
#	Note
1	Metal Panel
2	Face Brick
3	Stone Veneer
4	Metal Canopy

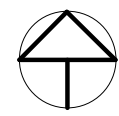
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Elevations



Samuel Center
Car Dealership/Tenant Space
14033 Trade Center
Fishers, IN 46038



DATE:
2/29/2024

A201



Planned Unit Development (PUD) Committee Staff Report

Meeting Date: May 1, 2024

DEPARTMENT CONTACT:
Christy Cashin, Senior Planner
(cashinc@fishers.in.us)

CASE NUMBER:
PUD-24-5

PETITIONER:
Brent White
(baw@deboyland.com)

PROPERTY ADDRESS/LOCATION:
14033 Trade Center Drive

REQUEST: Request to approve architecture for a new mixed-use building within the Fishers Trade Center PUD, generally located west of State Road 37 between E. 141st St. and E. 135th St.

APPLICABLE REGULATIONS:
Fishers Trade Center PUD
Ordinance No. 031595B & 070898
and the City's UDO

EXISTING ZONING:
Fishers Trade Center
PUD

FISHERS 2040:
Neighborhood Service Center

LOCATION MAP



STAFF RECOMMENDATION

☐ Approve

☒ Approve with Conditions

☐ Continue

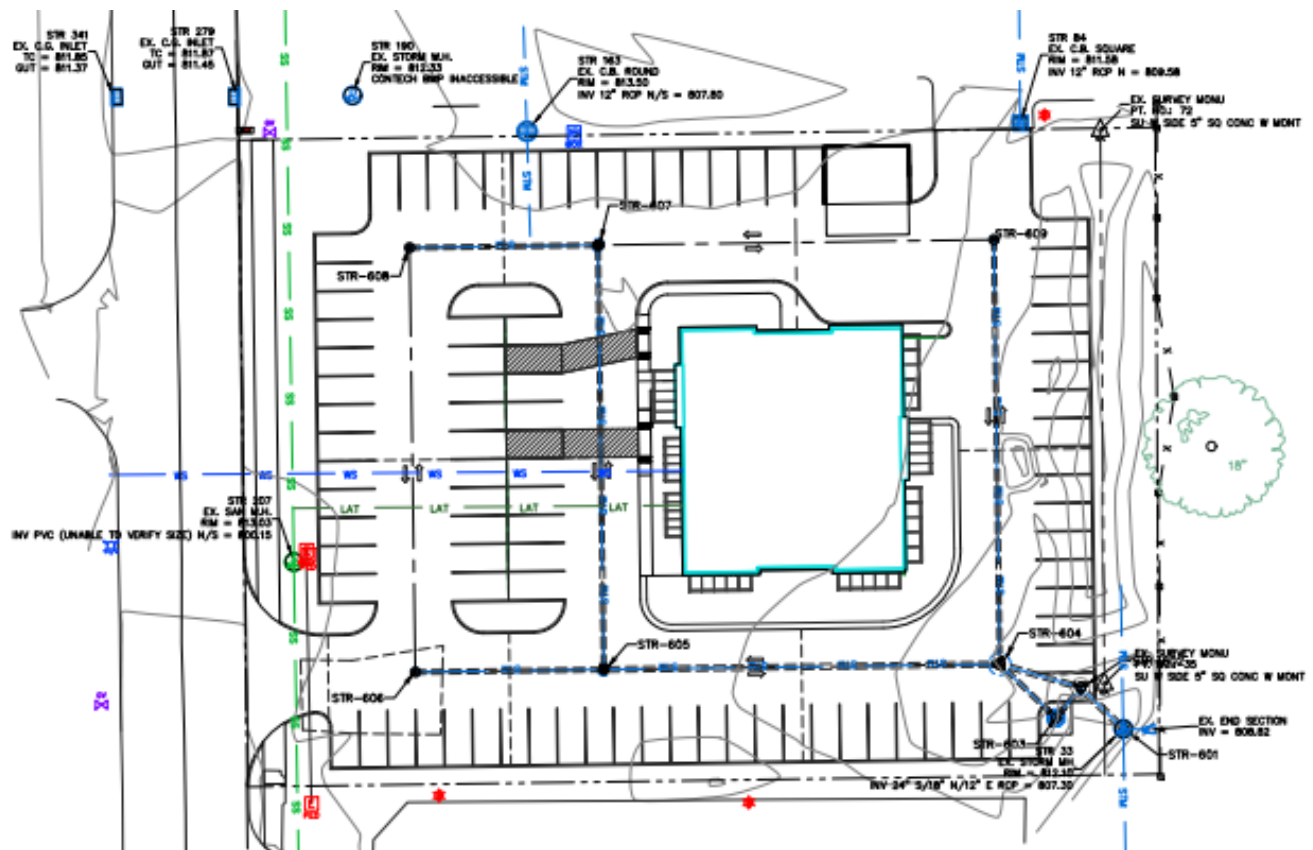
☐ Deny

ZONING HISTORY:

The original Fishers Trade Center PUD (ordinance 030294C) was adopted on March 2, 1994. Then, the Fishers Trade Center PUD (ordinance 031595B) established specific development standards for this project location. In 1998, ordinance 070898 was adopted with additional development standards for this area and surrounding areas.

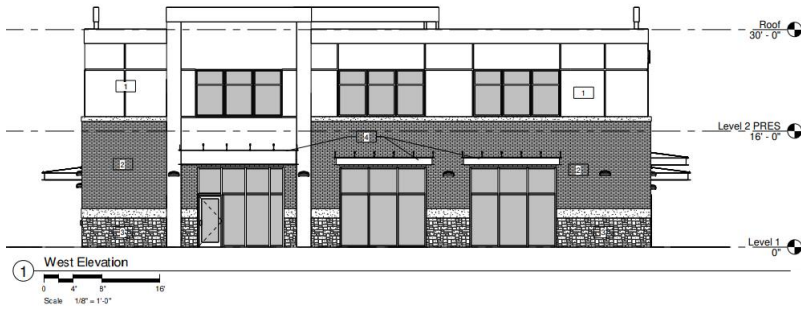
PETITION OVERVIEW:

Petitioner is requesting to build a two-story mixed-use building with a café (1730 SF), auto sales (2550 SF), and office space (3698 SF).



Site Plan

Proposed Elevations



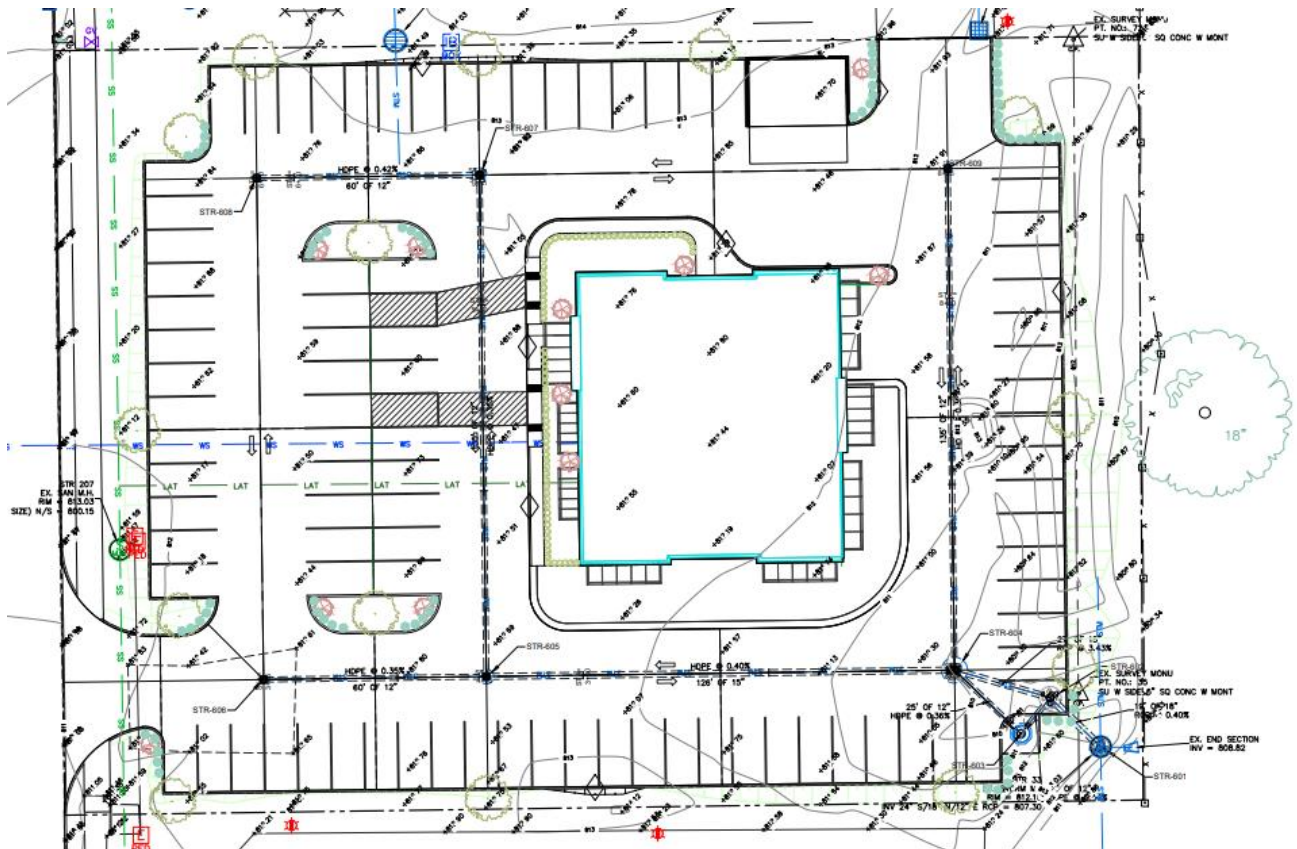
Renderings



View from State Rd. 37



View from Trade Center Dr.



Landscape plan

Details

Materials used on this project are as follows. The location of these materials is called out, by number, on the elevations.

1	Metal panel
2	Face brick
3	Stone veneer
4	Metal canopies

Architectural Standards

The Fishers Trade Center PUD Ordinance No. 031595B & 070898 lists development standards for minimum building setbacks, maximum structure height, maximum lot coverage, required landscaping and parking requirements. All other development standards refer to the City of Fishers UDO.

SURROUNDING CHARACTER:

The proposed buildings will be located on State Road 37, between Buffalo Wild Wings restaurant and O'Reilly Auto Parts retail store. Across the Trade Center Drive is an auto sales facility.



STAFF RECOMMENDATION:

Staff recommends the PUD Committee approve the elevations as proposed and approval of the site plan with the following condition:

1. A new site plan is submitted to the ILP application (ILP-24-7) addressing all TAC comments.

STAFF RECOMMENDATION

☐ Approve ☒ Approve with Conditions ☐ Continue ☐ Deny