

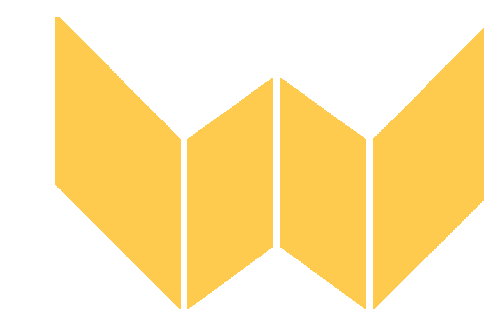


# CITY OF LEXINGTON

# LEXINGTON RACQUET CENTER

1110 North Park Street  
Lexington, Nebraska 68850

**100% Construction Drawings**  
January 10, 2023



**WILKINS**  
ARCHITECTURE | DESIGN | PLANNING



I, Caitlin E. Snyder,  
Registered Architect, am the  
Coordinating Professional  
on this project.

## SHEET INDEX

C0.1	EXISTING SITE PLAN	S1.1	STRUCTURAL NOTES & DESIGN DATA
C1.0	REMOVALS PLAN	S1.2	STRUCTURAL SCHEDULES
C1.1	RACQUET CENTER GRADING PLAN	S2.1	FOUNDATION PLAN
C1.2	PARKING LOT GRADING PLAN	S2.2	MEZZANINE FLOOR PLAN & STRUCTURAL DETAILS
C1.3	OVERALL GRADING PLAN		
C1.4	GEOMETRICS PLAN		
C1.5	UTILITY PLAN	M1.0	BELOW GRADE PLUMBING PLAN
C1.6	EROSION CONTROL PLAN	M1.1	MECHANICAL PLAN
C2.0	NOTES	M2.1	ENLARGED MECHANICAL PLANS
C2.1	DETAILS	M3.1	MECHANICAL DETAILS
C2.2	SIDEWALK DETAILS	M4.1	MECHANICAL SCHEDULES
C2.3	CURB INLET DETAILS	M5.1	MECHANICAL SPECIFICATIONS
C2.4	EROSION CONTROL DETAILS		
		E0.0	ELECTRICAL COVER SHEET
AC1.0	Overall Floor Plan & Code Information	E1.1	LIGHTING PLANS
A0.1	General Notes & Assemblies	E2.1	POWER & SPECIAL SYSTEMS PLANS
A1.0	Overall Floor Plan	E3.0	ELECTRICAL DETAILS
A1.1	Mezzanine Plan	E4.0	ELECTRICAL SPECIFICATIONS
A2.0	Enlarged Floor Plans		
A3.0	Reflected Ceiling Plan		
A4.0	Roof Plan		
A5.0	Exterior Elevations		
A6.0	Building Sections		
A7.0	Wall Sections		
A7.1	Wall Sections		
A8.0	Door and Window Types and Details		
A9.0	Room Finish Schedule		
A9.1	Finish Floor Plan		
A9.2	Interior Elevations		
A9.3	Interior Elevations		
A10.0	Casework Sections and Details		

### ARCHITECT

Wilkins Architecture | Design | Planning LLC  
2908 West 39th St Suite A  
Kearney, NE 68845  
T: 308.237.5787  
www.WilkinsADP.com

### STRUCTURAL ENGINEER

Lange Structural Group  
1919 South 40th Street, Suite 302  
Lincoln, NE 68506  
T: 402.421.9540  
www.langestructuralgroup.com

### MECHANICAL, PLUMBING, & ELEC. ENGINEER

Morrissey Engineering, Inc.  
4940 North 118th Street  
Omaha, NE 68164  
T: 402.491.4144  
www.morrisseyengineering.com

### CIVIL ENGINEER

Miller & Associates Consulting Engineers PC  
1111 Central Avenue  
Kearney, NE 68847  
T: 308.234.6456  
www.miller-engineers.com









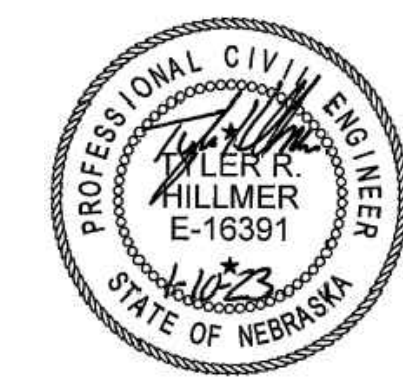












**EARTHMOVING:**

1. PRIOR TO STARTING EARTHWORK, THE CONTRACTOR SHALL PROVIDE SAMPLES OF BOTH ONSITE AND PROPOSED BORROW SOIL MATERIALS TO AN INDEPENDENT TESTING LABORATORY TO PERFORM PROCTOR TESTING.
2. THE TOP 12 INCHES OF TOPSOIL AND VEGETATION SHALL BE STRIPPED.
3. COMPACT RESULTING SUBGRADE AND SOIL MATERIALS TO NOT LESS THAN THE FOLLOWING PERCENTAGES (PER ASTM D 698):
  - A) UNDER STRUCTURES, BUILDING SLABS, AND STEPS, PROVIDE 12 INCHES OF STRUCTURAL FILL AND COMPACT EACH LAYER OF BACKFILL OR FILL SOIL MATERIAL TO AT LEAST 95 PERCENT.
  - B) UNDER PAVEMENTS, DRIVING SURFACES, AND WALKWAYS, PROVIDE 12 INCHES OF STRUCTURAL FILL AND COMPACT EACH LAYER OF BACKFILL OR FILL SOIL MATERIAL TO AT LEAST 95 PERCENT.
  - C) UNDER LAWN OR UNPAVED AREAS, COMPACT EACH LAYER OF BACKFRILL OR FILL SOIL TO AT LEAST 90 PERCENT.
4. MOISTEN OR AERATE SUBGRADE AND EACH SUBSEQUENT FILL OR BACKFILL SOIL LAYER PRIOR TO COMPACTION TO WITHIN -3% TO +3% OF OPTIMUM MOISTURE. DO NOT USE SOILS WHICH ARE MUDDY, FROZEN, OR CONTAIN FROST/ICE.
5. FILL AND BACKFILL LIFTS SHALL BE PLACED IN LAYERS NOT MORE THAN 8 INCHES IN LOOSE DEPTH FOR MATERIALS COMPACTED BY HEAVY COMPACTION EQUIPMENT, AND NOT MORE THAN 4 INCHES IN LOOSE DEPTH FOR MATERIALS COMPACTED BY HAND-OPERATED EQUIPMENT.
6. REFER TO GEOTECHNICAL REPORT DATED JAN, 9, 2023 FOR ADDITIONAL SOIL REQUIREMENTS.

**GRADING:**

1. BEFORE FINISH GRADING, VERIFY SUBGRADES AND BACKFILLS HAVE BEEN INSPECTED AND TESTED BY AN INDEPENDENT TESTING LABORATORY.
2. IN DISTURBED AREAS WHICH WILL BE VEGETATED OR LANDSCAPED, SCARIFY SURFACE TO DEPTH OF 3 INCHES AND SPREAD TOPSOIL FROM STOCKPILE TO A DEPTH OF APPROXIMATELY 6 INCHES.
3. TOPSOIL SHALL BE GRADED TO PROVIDE UNIFORM, GENTLE CONTOURS TO THE FINISH GRADES INDICATED ON THE DRAWINGS. FINE GRADE TO ELIMINATE UNEVEN AREAS AND LOW SPOTS.
4. CONTRACTOR SHALL COORDINATE WITH LANDSCAPING, AND LEAVE FINISH GRADE DOWN APPROXIMATELY 1 INCH IF SOD WILL BE INSTALLED.

**CONCRETE PAVING:**

1. ALL CONCRETE PARKING LOTS AND DRIVEWAYS SHALL BE 6 INCH THICK P.C. CONCRETE PAVEMENT, UNLESS OTHERWISE NOTED. ALL PARKING LOTS AND DRIVEWAYS SHALL HAVE REBAR REINFORCEMENT PER DETAILS.
2. ALL SIDEWALKS SHALL BE 6 INCH THICK P.C. CONCRETE PAVEMENT, UNLESS OTHERWISE NOTED. ALL SIDEWALKS SHALL HAVE REBAR REINFORCEMENT PER DETAILS.
3. CONCRETE SHALL BE TYPE 47B-4000 PER THE 2017 VERSION OF THE NEBRASKA DEPARTMENT OF TRANSPORTATION (NDOT) STANDARD SPECIFICATIONS FOR HIGHWAY CONSTRUCTION.
4. CONCRETE COMPRESSIVE STRENGTH SHALL BE AT LEAST 4000 PSI AT 28 DAYS.
5. CONCRETE MIX DESIGN SHALL UTILIZE TYPE IP CEMENT.
6. CONCRETE SHALL BE CURED WITH SPRAY APPLIED WHITE WATERBORNE MEMBRANE-FORMING CURING COMPOUND PER ASTM C309, TYPE 2, CLASS B.
7. CURB RAMPS SHALL BE CONSTRUCTED PER THE DETAILS. DETECTABLE WARNING PANELS SHALL BE "CAST-IN-PLACE" BY ADA SOLUTIONS (www.adatile.com), COLOR TO BE COORDINATED WITH OWNER.
8. PAVEMENT MARKINGS SHALL BE "PERMANENT PAVEMENT MARKING, PAINT" PER SECTION 423 OF THE NDOT STANDARD SPECIFICATIONS (2017). GLASS BEADS ARE NOT REQUIRED. MATERIALS SHALL BE ON THE NDOT APPROVED PRODUCT LIST. PAVEMENT SHALL BE ALLOWED TO CURE 28 DAYS PRIOR TO APPLICATION OF PAINT MARKINGS. PAVEMENT MARKINGS SHALL BE WHITE IN COLOR, AND 4 INCHES WIDE.
9. ALL JOINTS (EXPANSION, CONTRACTION, AND CONSTRUCTION) IN PARKING LOTS AND DRIVEWAYS SHALL BE CLEANED WITH COMPRESSED AIR, DRIED, AND SEALED WITH HOT APPLIED, BLACK, SINGLE-COMPONENT JOINT SEALANT PER ASTM 3405.
10. EXPANSION JOINTS IN SIDEWALKS/WALKWAYS SHALL BE SEALED WITH SINGLE-COMPONENT, SELF LEVELING, POLYURETHANE SEALANT PER ASTM D 5893, TYPE SL. COLOR SHALL BE GREY/LIMESTONE.
11. PARKING LOTS AND DRIVEWAYS SHALL HAVE BURLAP FINISH. SIDEWALKS SHALL HAVE LIGHT BROOM FINISH.
12. REINFORCING STEEL SHALL BE GRADE 60.
13. COLD WEATHER CONCRETING SHALL BE IN ACCORDANCE WITH NDOT STANDARD SPECIFICATIONS.
14. FIELD CONCRETE TESTING AND LABORATORY COMPRESSIVE STRENGTH TESTS SHALL BE CONDUCTED AT THE CONTRACTOR'S EXPENSE FOR EVERY 100 CUBIC YARDS PLACED, AND EVERY INDIVIDUAL PLACEMENT. RESULTS OF TESTS SHALL BE PROVIDED TO THE ENGINEER FOR REVIEW.
15. DURING PUNCH-LIST WALK-THROUGH, CONTRACTOR WILL BE REQUIRED TO REMOVE AND REPLACE (IN FULL PANELS) ANY CRACKED, DAMAGED, OR DEFECTIVE SECTIONS OF CONCRETE, AT NO ADDITIONAL COST TO THE OWNER. DEFECTIVE CONCRETE INCLUDES, BUT IS NOT LIMITED TO, POOR OR INCONSISTENT FINISHING AND LOCATIONS WHICH HAVE "BIRD BATHS".
16. SAND WILL NOT BE ALLOWED FOR FINE GRADING UNDERNEATH PAVEMENT, SIDEWALK, AND CURB & GUTTER.

**STORM SEWER UTILITY:**

1. STORM SEWER PIPING SHALL BE HDPE ADS N-12 DOUBLE WALL PIPE WITH WATER TIGHT JOINTS.
2. POLYVINYL CHLORIDE (PVC) PIPE SHALL BE SDR 35 AS DESCRIBED FOR SANITARY SEWER USAGE OR SCHEDULE 40 PVC. ALL ABOVE GROUND PIPING TO DOWN SPOUTS SHALL BE SCH. 40 PVC (WHITE).
3. REINFORCING STEEL FOR STRUCTURES SHALL BE GRADE 60.
4. CONCRETE FOR STRUCTURES SHALL BE AS DESCRIBED FOR CONCRETE PAVING USAGE.
5. BEDDING FOR STORM PIPE TYPES SHALL BE PER THE DETAILED DRAWINGS.

**WATER UTILITIES (PRIVATE):**

1. TAPPING TEE, GATE VALVE, VALVE BOX, AND FITTINGS SHALL BE IN ACCORDANCE WITH THE SPECIFICATIONS.
2. WATER MAIN AND SERVICE MATERIALS SHALL BE PVC C900 DR 18 AND TUBING SHALL EQUAL CTS, SDR 9 (200 PSI).
3. CONTRACTOR SHALL COORDINATE WATER TAP WITH THE CITY OF LEXINGTON WATER DEPARTMENT.
4. WATER SERVICE SHALL HAVE A 5-FOOT MINIMUM BURY DEPTH FOR FROST PROTECTION.
5. COORDINATE WITH MECHANICAL FOR CONNECTION AT BUILDING.
6. PERMITS AND CITY COORDINATION ARE THE RESPONSIBILITY OF THE CONTRACTOR.

**SANITARY SEWER UTILITY (PRIVATE):**

1. SANITARY SEWER SERVICE SHALL BE POLYVINYL CHLORIDE (PVC) SDR 35 PIPE CONFORMING TO ASTM D 3034. PVC SEWER PIPE SHALL UTILIZE A SINGLE RUBBER GASKET JOINT CONFORMING TO ASTM F-477.
2. ALL PIPE SHALL HAVE CLASS 'B' BEDDING PER THE DETAILED DRAWINGS.
3. COORDINATE WITH MECHANICAL FOR CONNECTION AT BUILDING.
4. PERMITS AND CITY COORDINATION ARE THE RESPONSIBILITY OF THE CONTRACTOR.

**EROSION CONTROL NOTES:**

1. THE OWNER WILL APPLY TO OBTAIN COVERAGE UNDER THE GENERAL NATIONAL POLLUTANT DISCHARGE ELIMINATION SYSTEM (NPDES) PERMIT (NUMBER NER160000) FOR STORM WATER DISCHARGE.
2. THE OWNER HAS PREPARED THE INITIAL STORM WATER POLLUTION PREVENTION PLAN (SWPPP) FOR THE PROJECT.
3. THE CONTRACTOR WILL SERVE AS THE OPERATOR AND ADMINISTRATOR THROUGHOUT THE DURATION OF CONSTRUCTION.
4. THE CONTRACTOR WILL BE RESPONSIBLE FOR CONDUCTING ALL SITE INSPECTIONS AS REQUIRED BY THE PERMIT.
5. THE CONTRACTOR WILL BE RESPONSIBLE FOR INSTALLING AND MAINTAINING ANY AND ALL NECESSARY EROSION AND SEDIMENT CONTROL MEASURES., AND PERFORMING ALL NECESSARY WORK REQUIRED AS A RESULT OF REGULAR INSPECTIONS OF THE SITE, IN ACCORDANCE WITH THE PERMIT CONDITIONS.
6. THE CONTRACTOR WILL BE REQUIRED TO MAINTAIN ALL RECORDS AND FOR UPDATING THE SWPPP THROUGHOUT THE DURATION OF THE PROJECT.
7. UPON PROJECT COMPLETION AND SITE STABILIZATION, THE CONTRACTOR SHALL FILE FOR A NOTICE OF TERMINATION AND ALL SWPPP DOCUMENTATION SHALL BE TURNED OVER TO THE OWNER.
8. ANY FINES, PENALTIES, OR JUDGEMENTS LEVIED AGAINST THE OWNER AS A RESULT OF THE CONTRACTOR'S FAILURE TO COMPLY WITH THE TERMS OF THESE DRAWINGS, THE PERMIT, OR THE SWPPP, SHALL BE BORNE SOLELY BY THE CONTRACTOR.
9. ADJACENT STREETS SHALL BE MONITORED CONTINUOUSLY THROUGHOUT CONSTRUCTION AND ANY SEDIMENT TRACK-OUT SHALL BE CLEANED UP BY THE CONTRACTOR.
10. PROTECT ANY AND ALL MATERIAL STOCKPILES.
11. UPON FINAL SITE STABILIZATION, ALL EROSION AND SEDIMENT CONTROL DEVICES SHALL BE REMOVED AND HAULED OFFSITE BY THE CONTRACTOR FOR PROPER DISPOSAL.

Revision/Issue	Date

**NOTES**

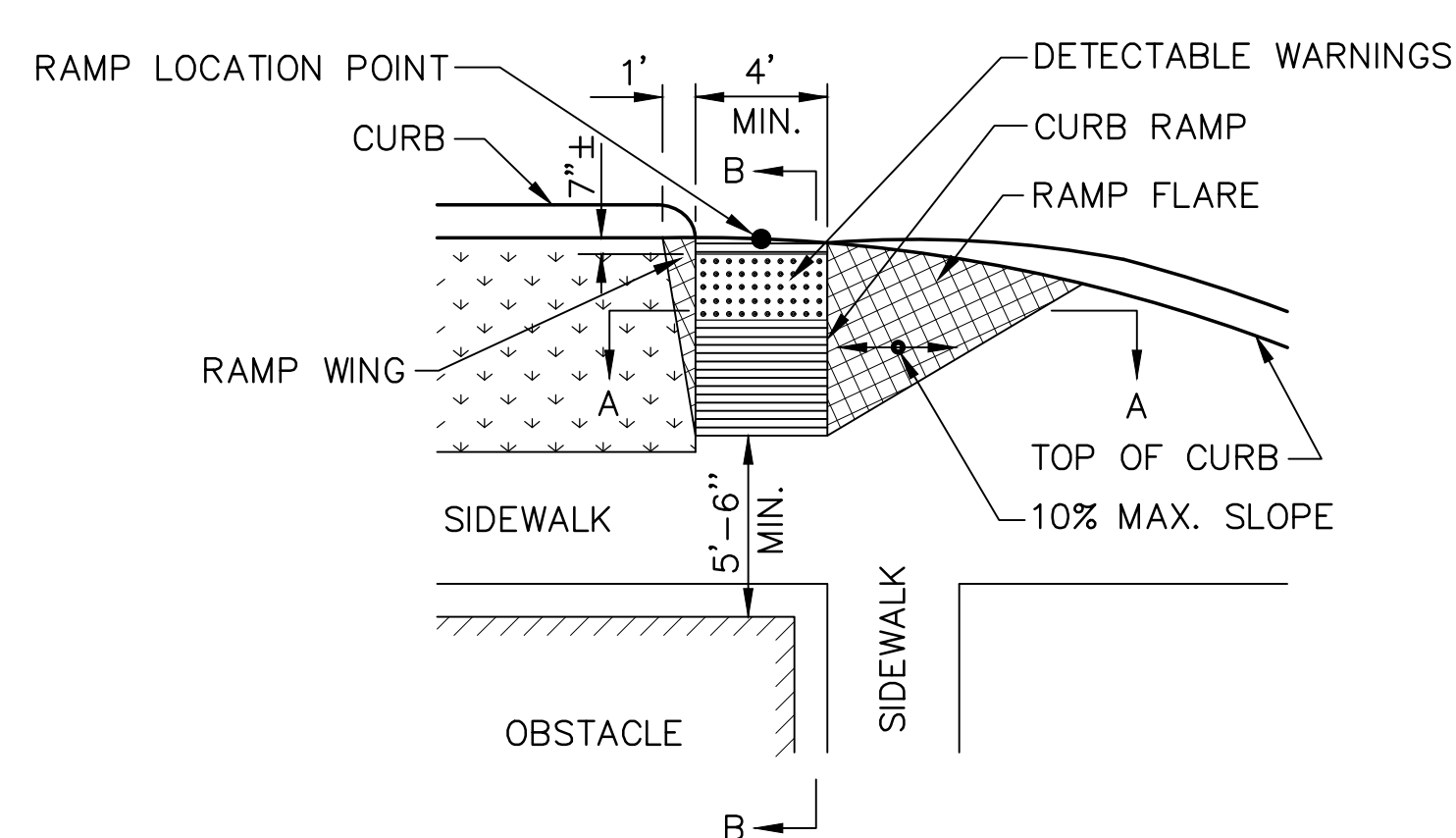
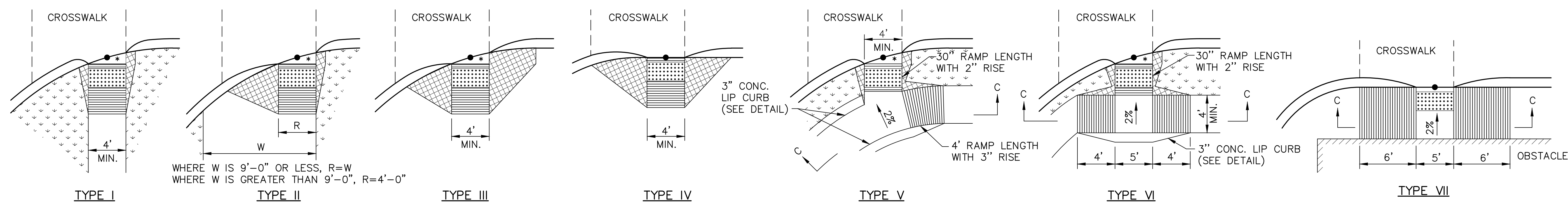
Project Number: **2261**  
 Date: **January 10, 2023**

Copyright © 2022  
 WILKINS Architecture | Design | Planning L.L.C.

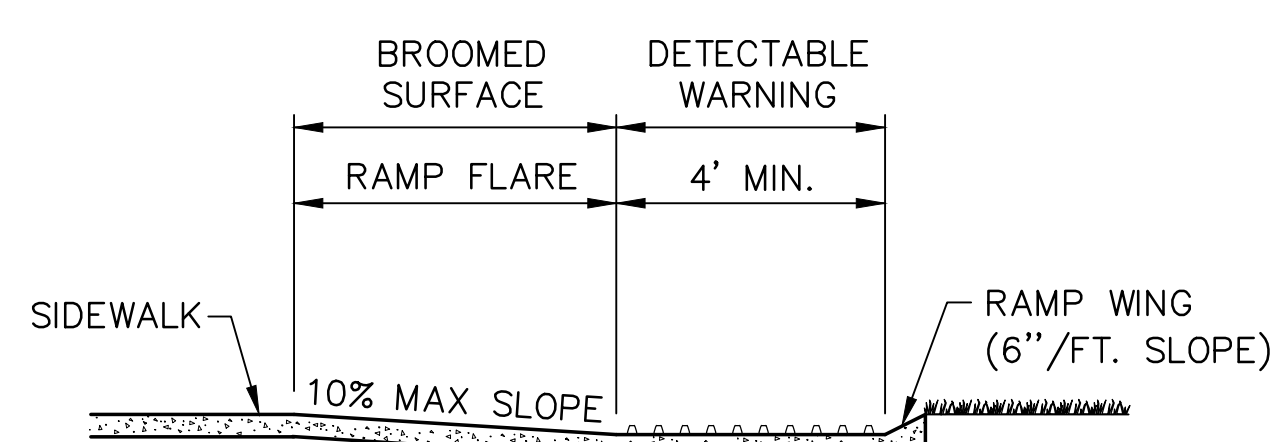
Sheet Number:

**C2.0**

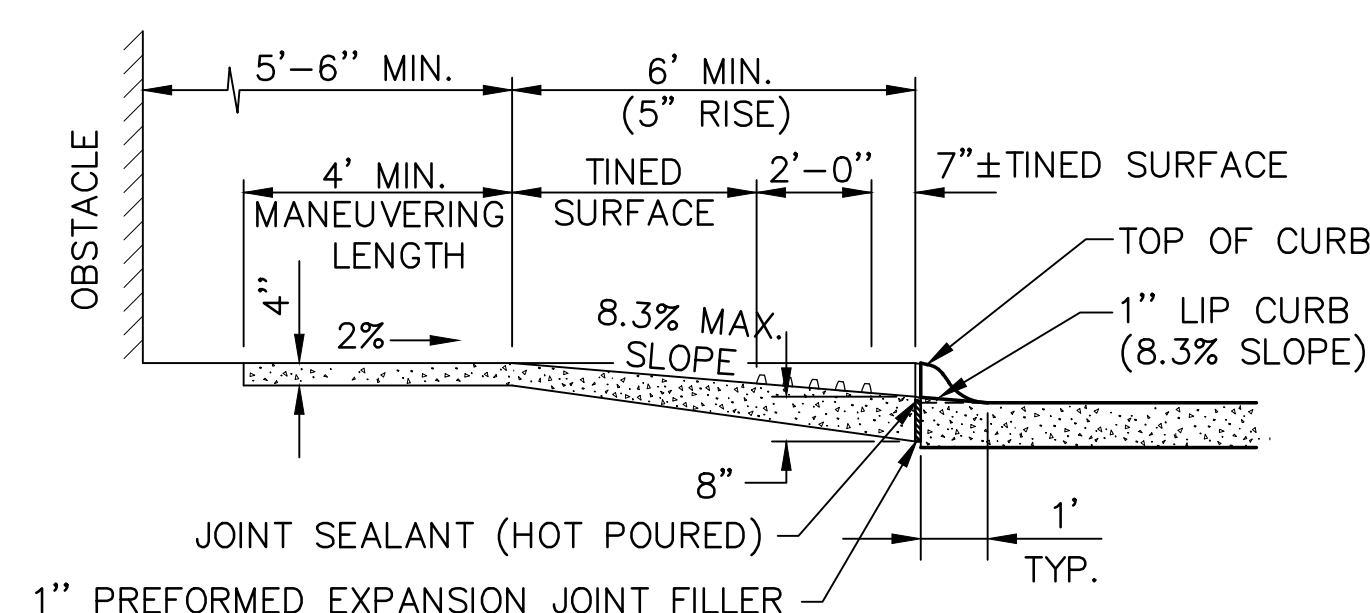




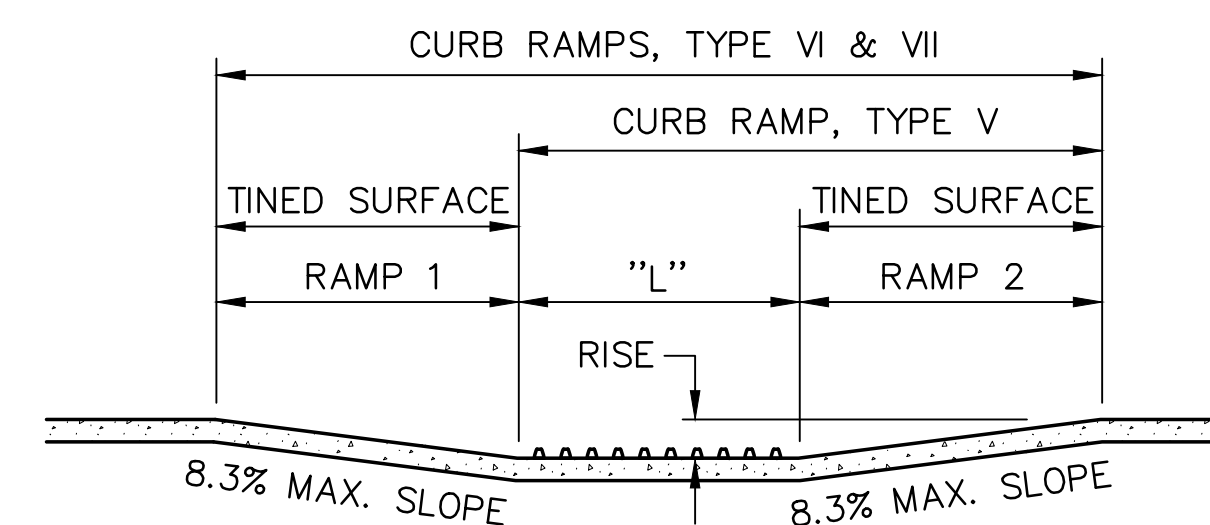
TYPICAL CURB RAMP DETAIL



SECTION A-A  
TYPICAL RAMP CROSS SECTION

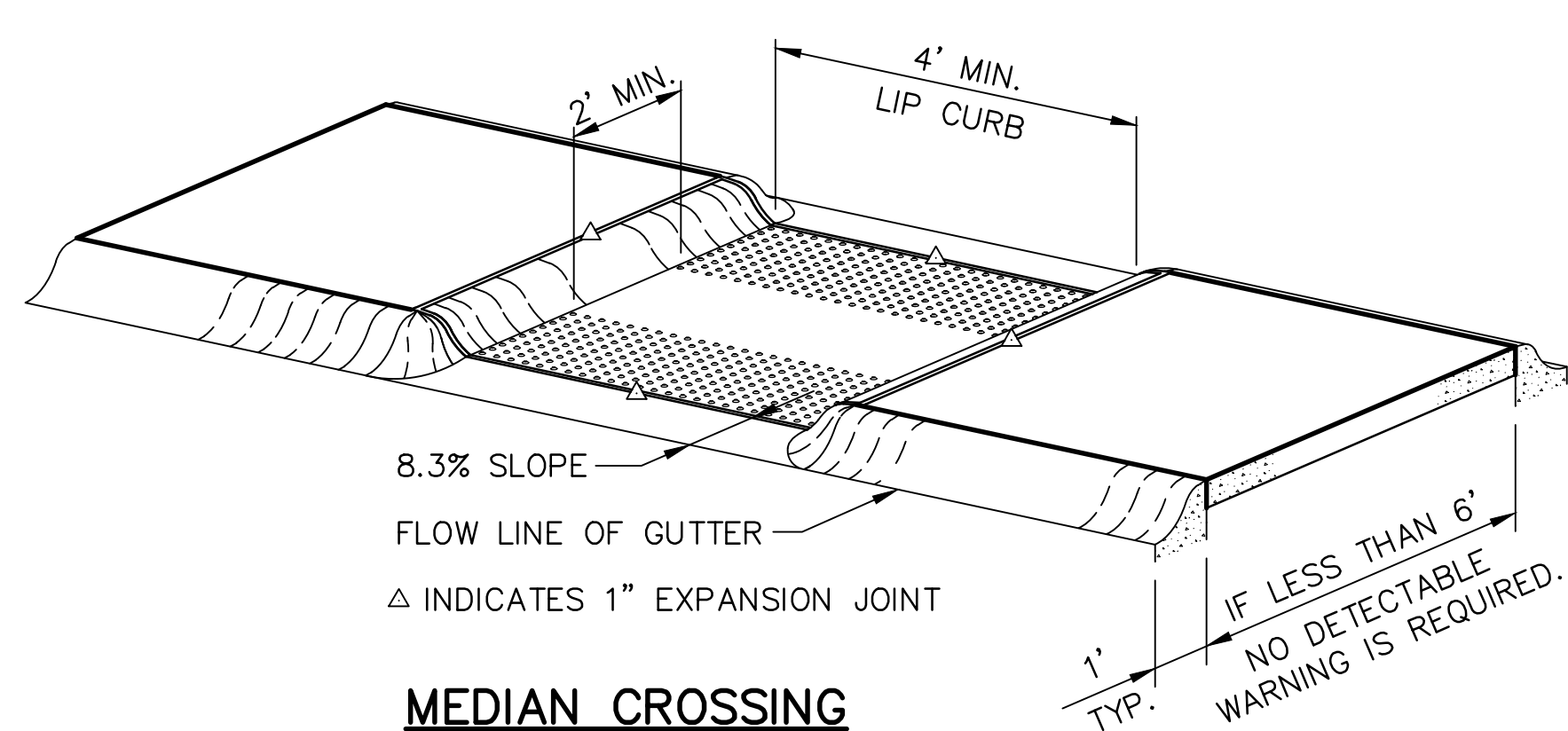


SECTION B-B  
TYPICAL RAMP PROFILE

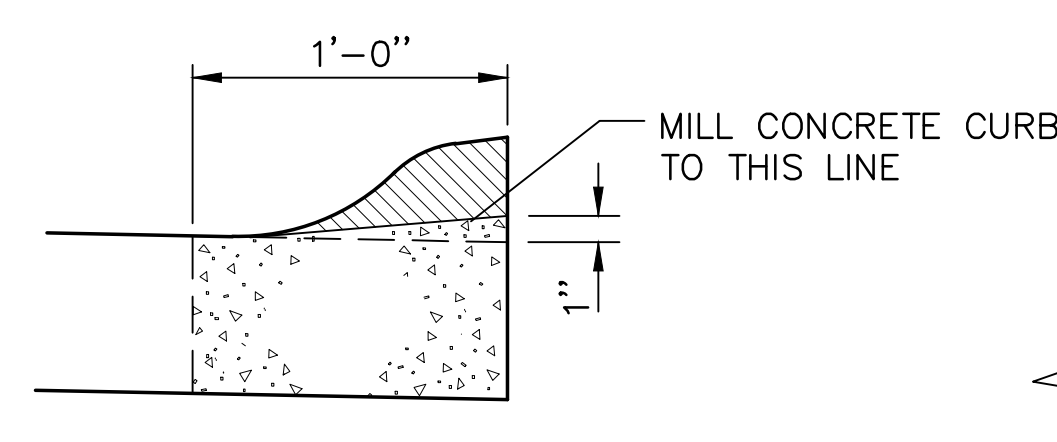


CURB RAMP	RISE	"L"	RAMP 1	RAMP 2
TYPE V	3"	VAR.	N/A	4'
TYPE VI	3"	5'	4'	4'
TYPE VII	5"	5'	6'	6'

SECTION C-C  
TYPICAL RAMP CROSS SECTION

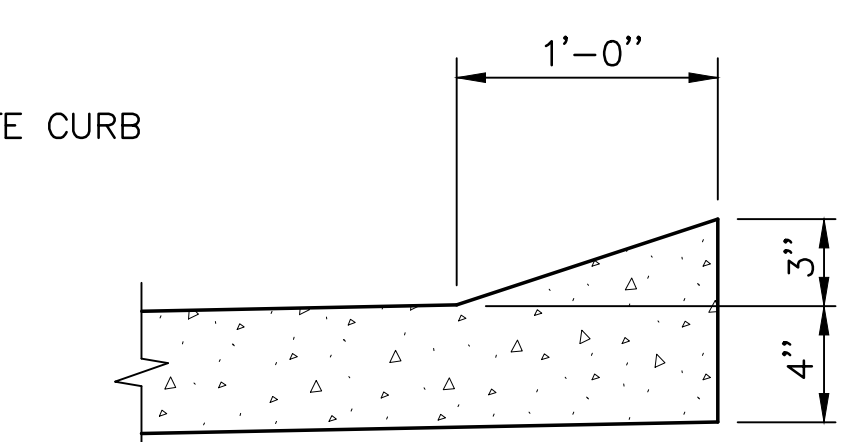


MEDIAN CROSSING



NOTE:  
COMBINATION CONCRETE CURB AND GUTTER MAY BE REMOVED AND REPLACED IN LIEU OF MILLING.

CURB REMOVAL DETAIL



3" CONCRETE LIP CURB DETAIL

NOTES:

THE NORMAL GUTTER LINE PROFILE SHALL BE MAINTAINED THROUGH THE AREA OF THE CURB RAMP.

THE SURFACE OF ALL CURB RAMPS SHALL BE TINED TRANSVERSELY TO THE SLOPE OF THE CURB RAMP. THE TINES SHALL PRODUCE GROOVES APPROXIMATELY 1/8" WIDE AND 3/16" DEEP ON 1/2" CENTERS. ALL FLARES AND WINGS SHALL BE BROOMED.

CARE SHALL BE TAKEN TO ASSURE A UNIFORM GRADE ON THE CURB RAMP, FREE OF SAGS AND SHORT GRADE CHANGES.

THE RAMP FLARES SHALL BE CONSTRUCTED WITH A 10% SLOPE AT RIGHT ANGLES TO THE SLOPE OF THE CURB RAMP, TYPES II, III & IV.

THE SLOPE OF SIDEWALKS APPROACHING CURB RAMPS (OR THEIR FLARES) SHALL BE FLAT ENOUGH TO PROVIDE RECOVERY AREAS FOR WHEELCHAIRS ENTERING OR EXITING THE RAMPS.

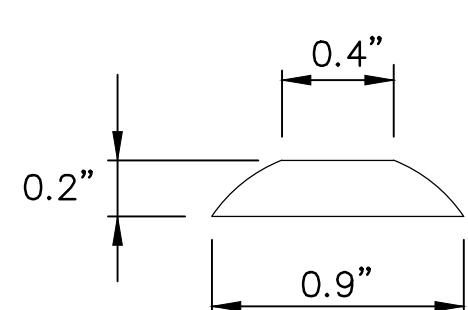
THE WORK OF CONSTRUCTING THESE RAMPS SHALL BE MEASURED AND PAID FOR AS A PART OF THE WORK FOR "CONCRETE SIDEWALKS", "CONCRETE MEDIAN SURFACING" OR "CONCRETE BIKEWAY". THE WORK OF MODIFICATION OF NEW OR EXISTING CURB WILL NOT BE PAID FOR DIRECTLY, BUT WILL BE CONSIDERED SUBSIDIARY TO OTHER ITEMS OF WORK FOR WHICH DIRECT PAYMENT IS MADE.

MAXIMUM PERCENT OF SLOPES ARE RELATIVE TO THE SLOPE OF THE ADJACENT SIDEWALK.

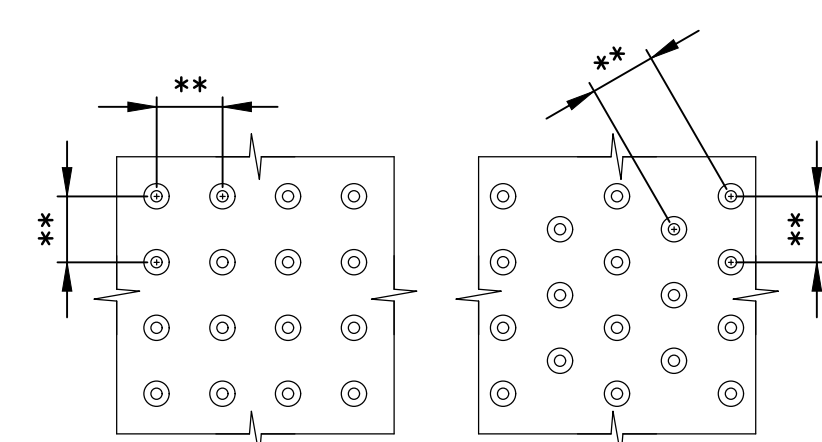
DETECTABLE WARNINGS SHALL EXTEND THE FULL WIDTH OF THE CURB RAMP. THEY SHALL BE LOCATED SO THAT THE EDGE NEAREST THE CURB LINE IS 6" TO 8" FROM THE CURB LINE.

\* INDICATES 2% SLOPE TOWARDS STREET.

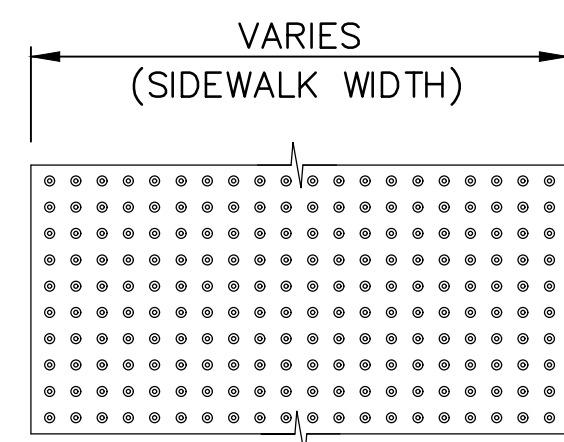
- LEGEND**
- DETECTABLE WARNINGS
  - TINED CURB RAMPS
  - BROOMED RAMP WINGS & FLARES
  - MILLED CONCRETE
  - GRASS OR NON WALKING SURFACE



DOME SECTION



DOME SPACING



DOME ALIGNMENT

DETECTABLE WARNING DETAILS

Revision/Issue	Date

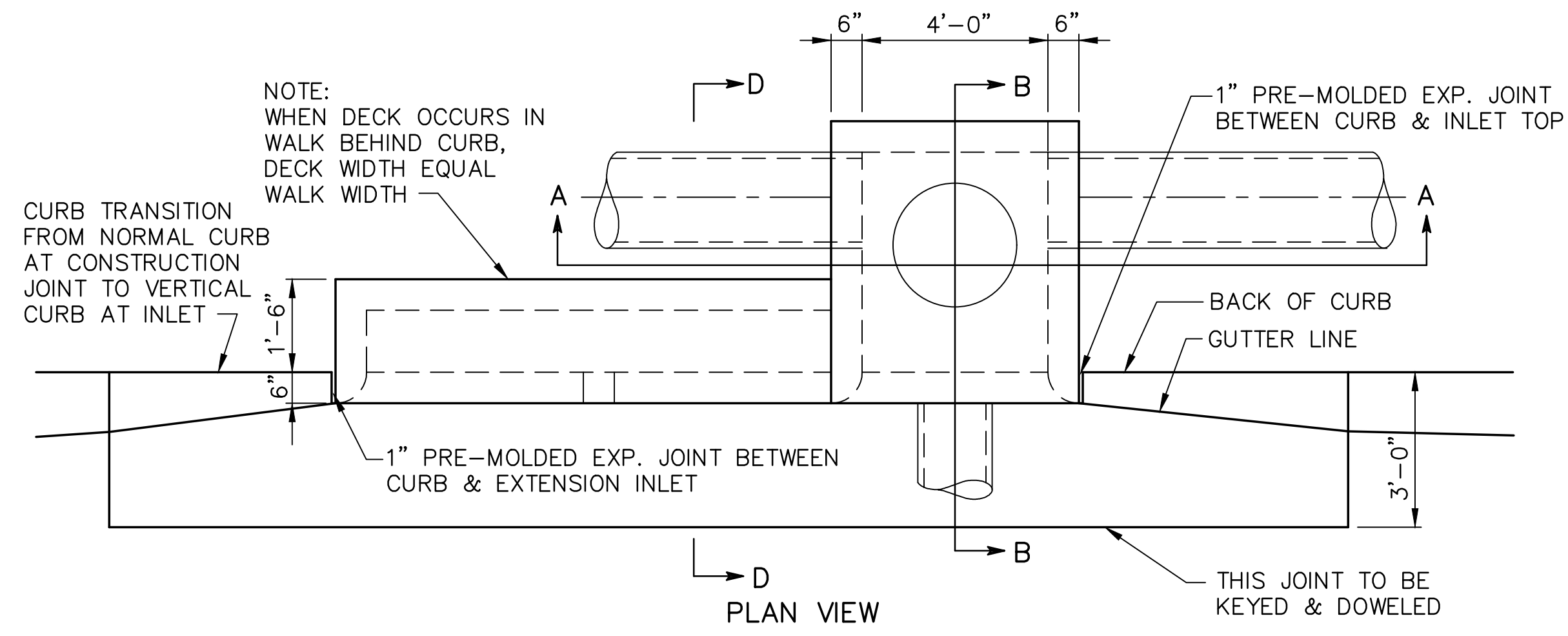
SIDEWALK DETAILS

Project Number: 2261  
Date: January 10, 2023

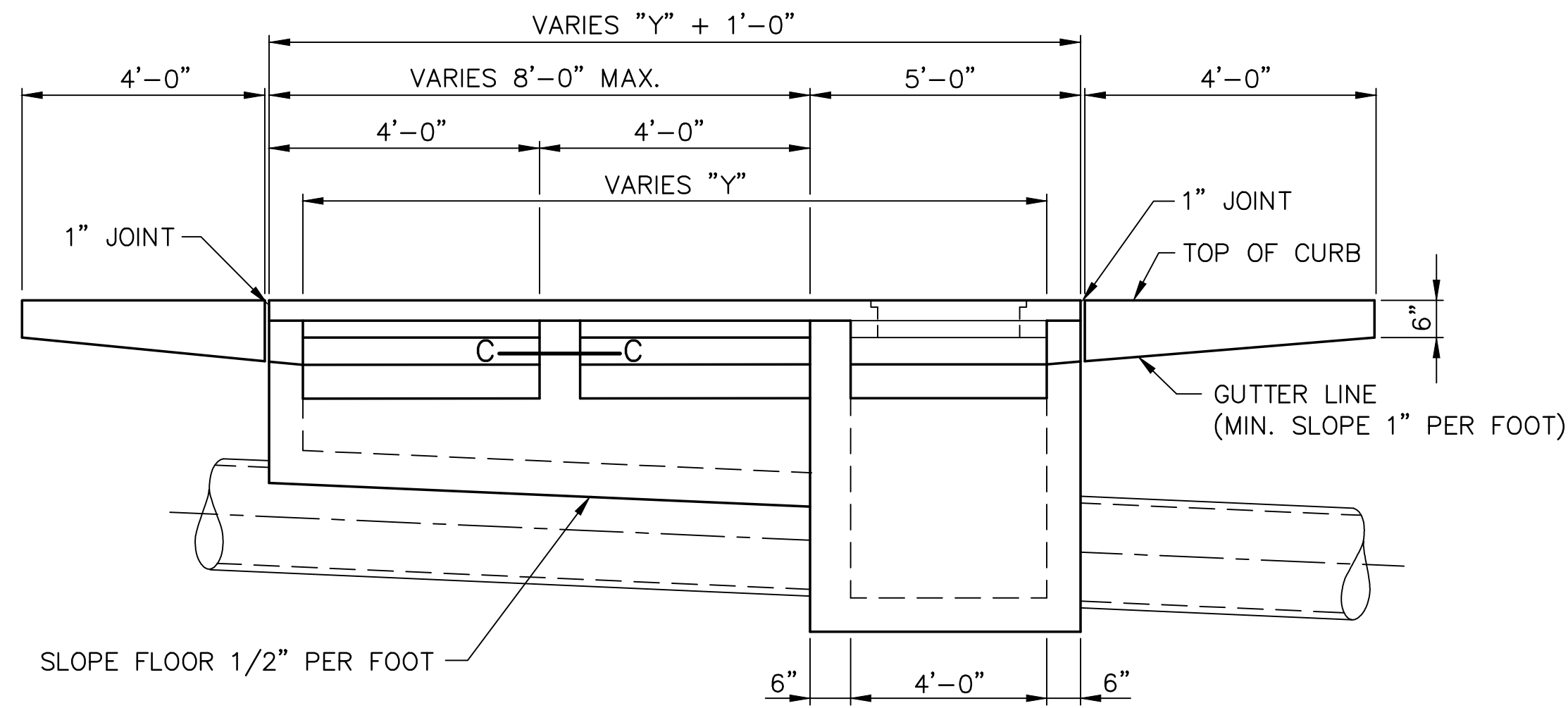
Copyright © 2022  
WILKINS Architecture | Design | Planning L.L.C.

Sheet Number:

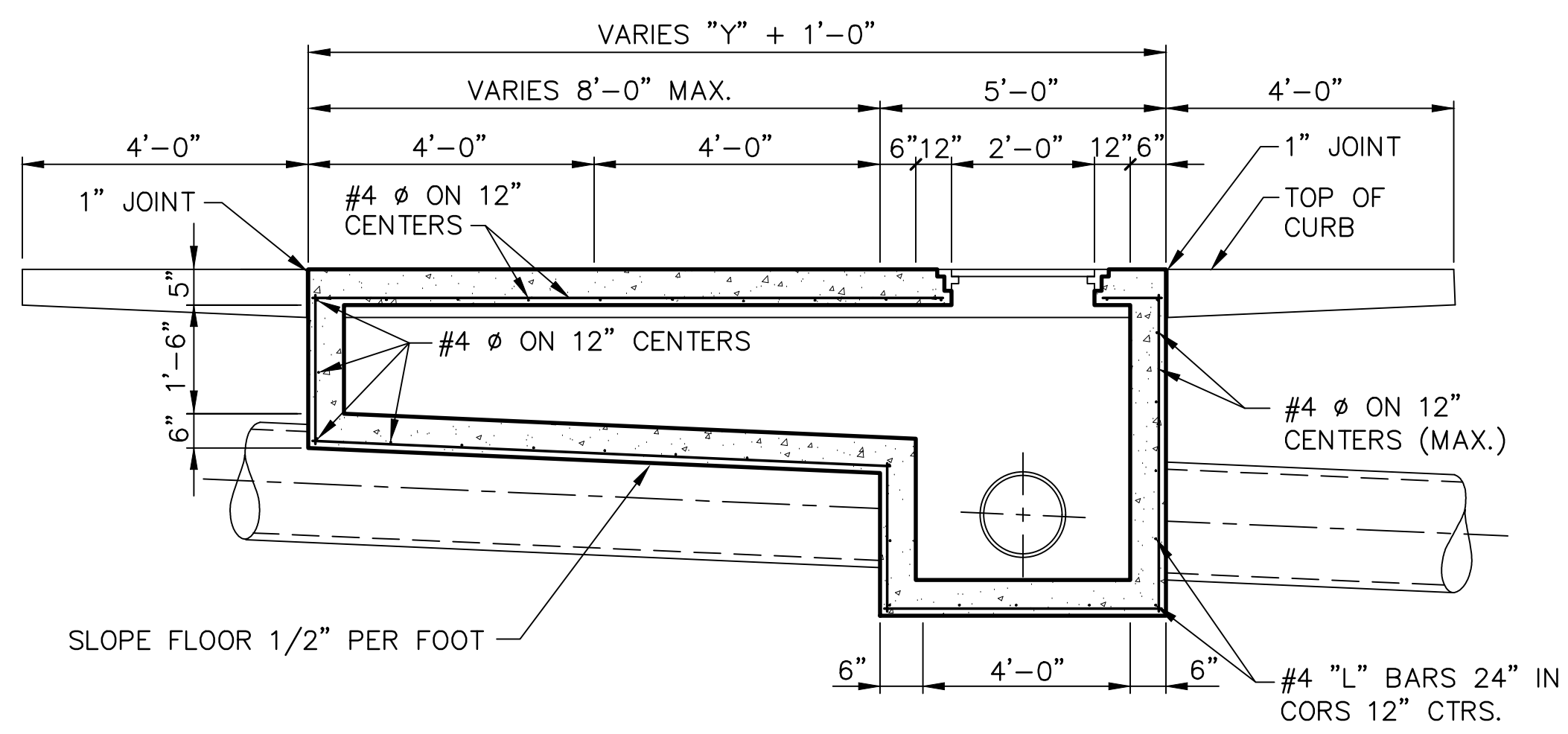
C2.2



**CURB INLET ("Y" = 6' TO 12')**



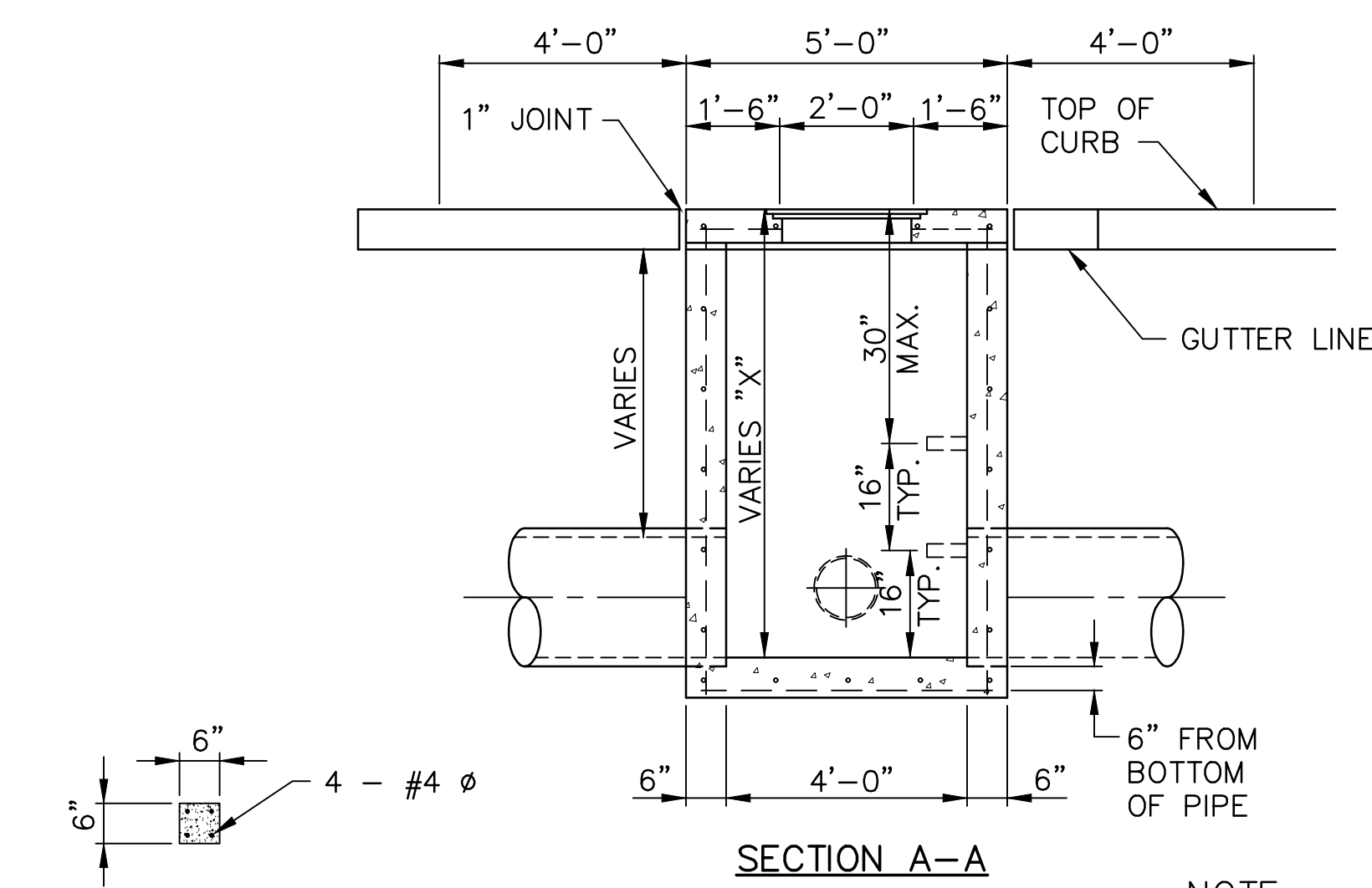
**FRONT ELEVATION**



**TYPICAL INLET SECTION**

**NOTES:**

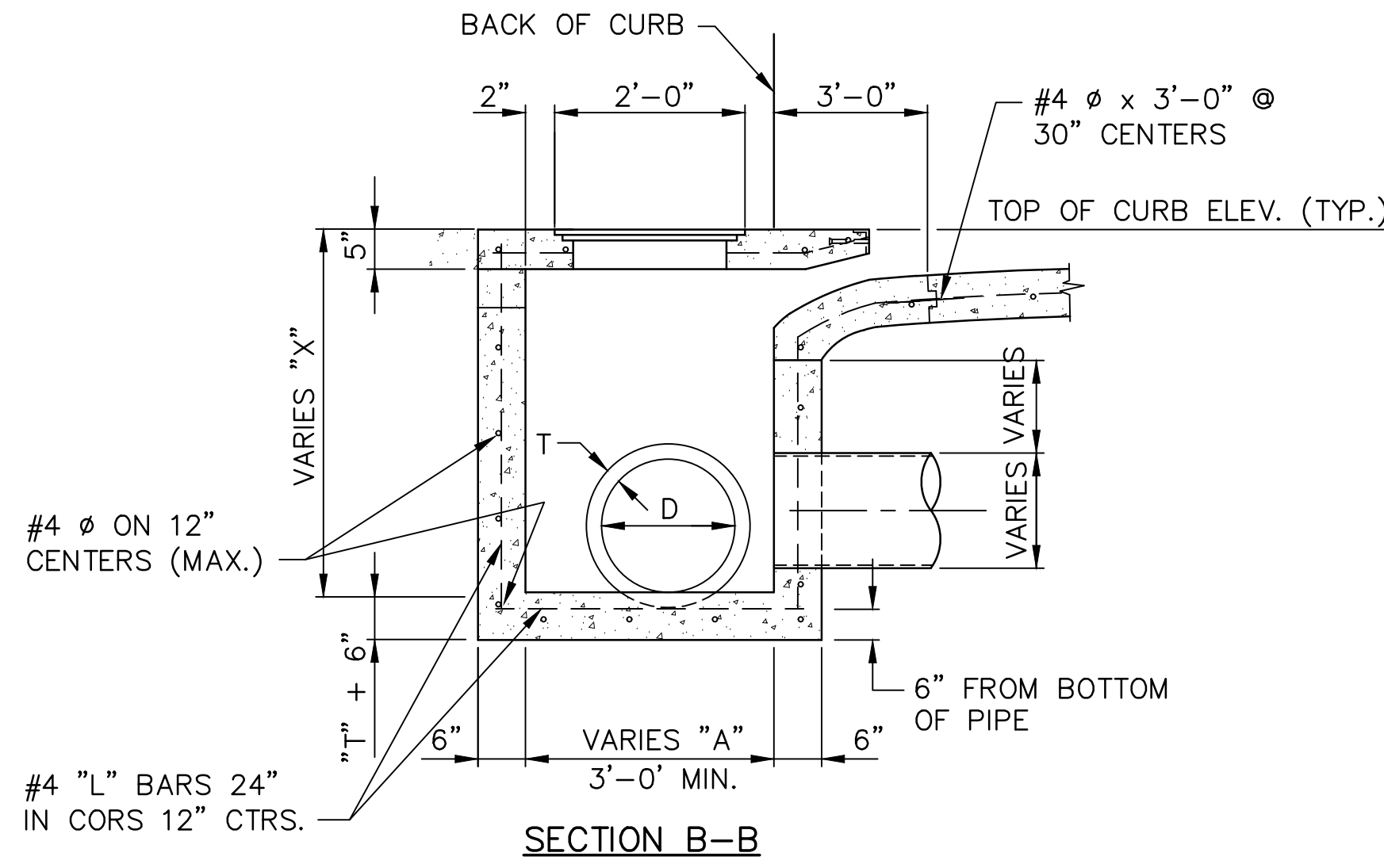
- ALL EXPOSED SURFACES OF CURB INLET CASTINGS AND FACE PLATES SHALL RECEIVE 2 COATS OF ASPHALT BASE PAINT "FLAT BLACK" OR APPROVED EQUAL. ALL METAL SHALL BE FREE FROM ANY PAINT OR COATING BEFORE ASPHALT BASE PAINT IS APPLIED.
- INLET SHALL BE ALL CONCRETE CONSTRUCTION WITH REINFORCEMENT AS SHOWN.
- THE COVERING FOR ALL REBARS SHALL BE 1 1/2".
- INLET COVER AND FRAME SHALL BE DEETER FOUNDRY NO. 2000 OR APPROVED EQUAL.



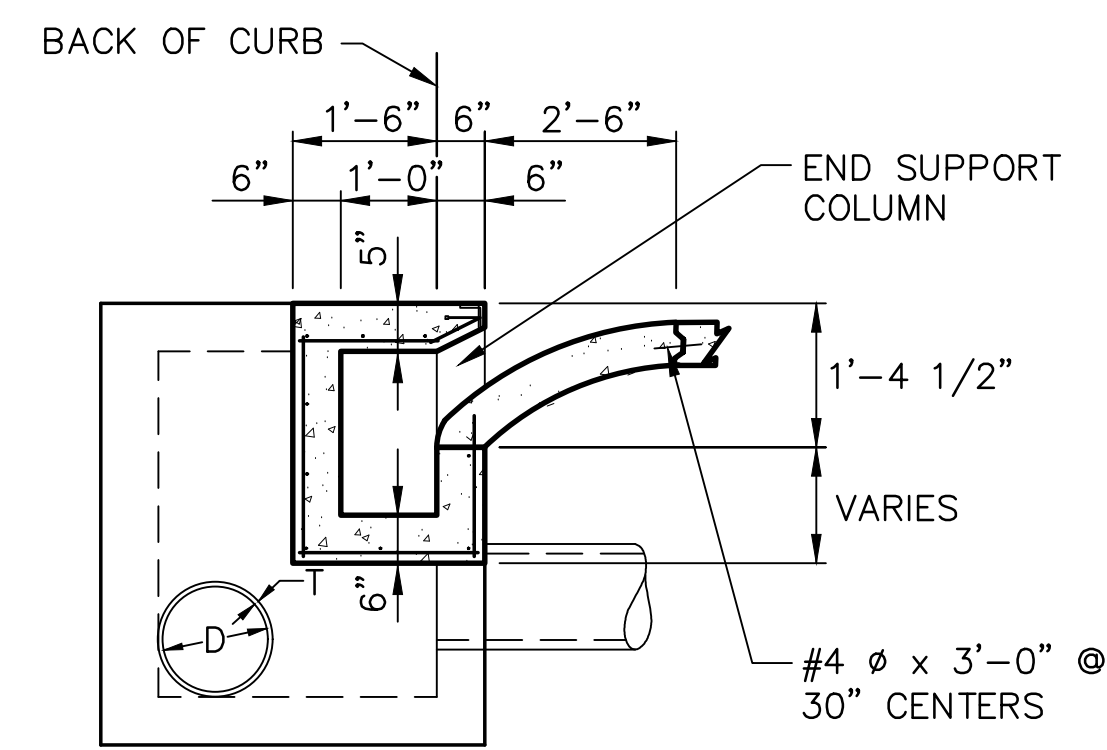
**CURB INLET ("Y" = 4')**

NOTE: TOP REINFORCEMENT TO BE TIED TO WALL REINFORCEMENT

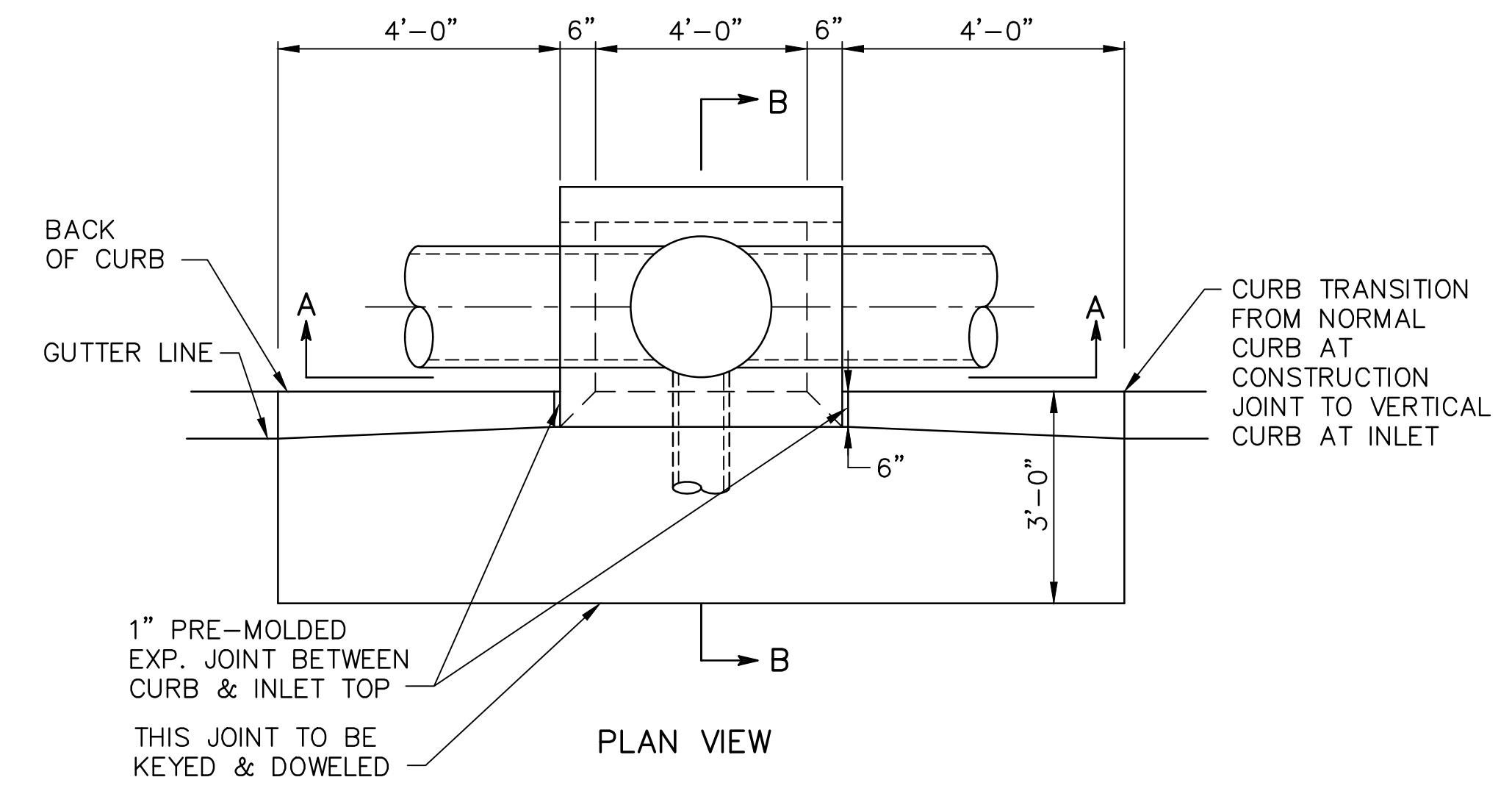
**SECTION C-C SUPPORT COLUMN DETAIL**



**SECTION B-B**



**SECTION D-D**

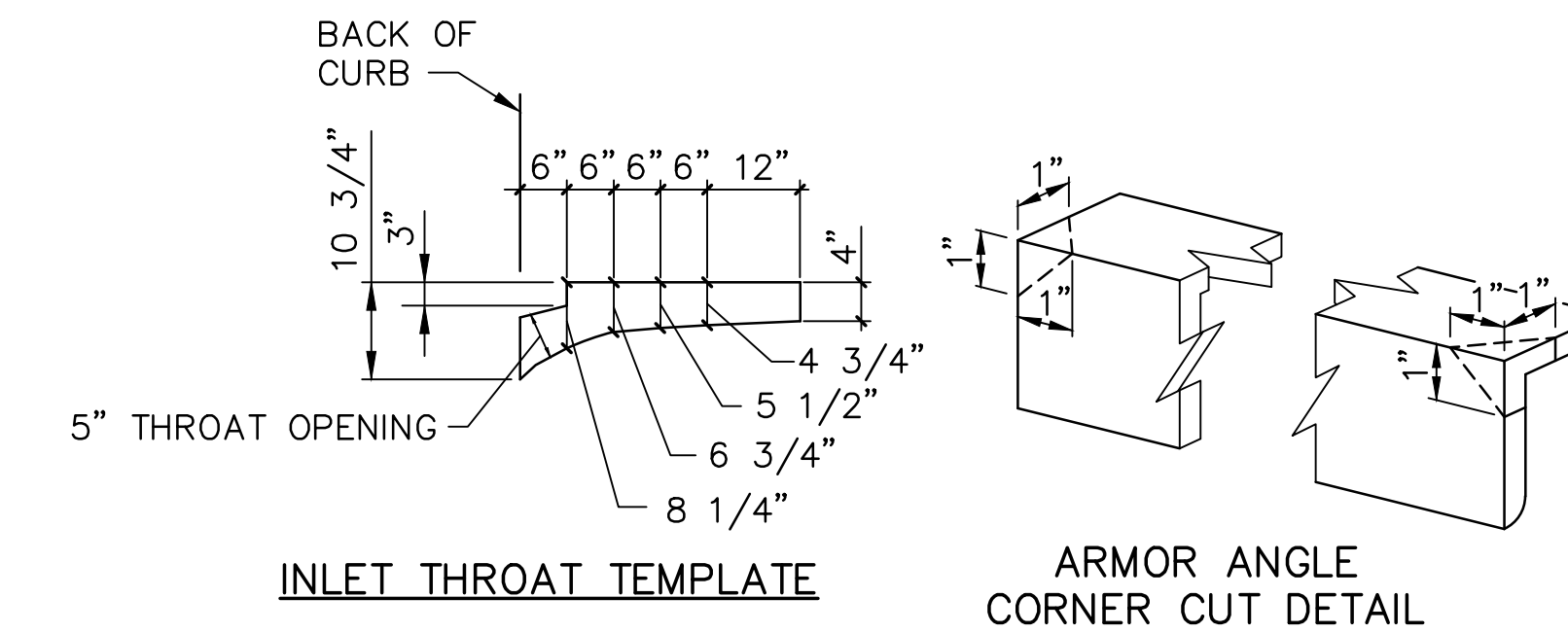


**STANDARD CURB INLET ("Y" = 4')**



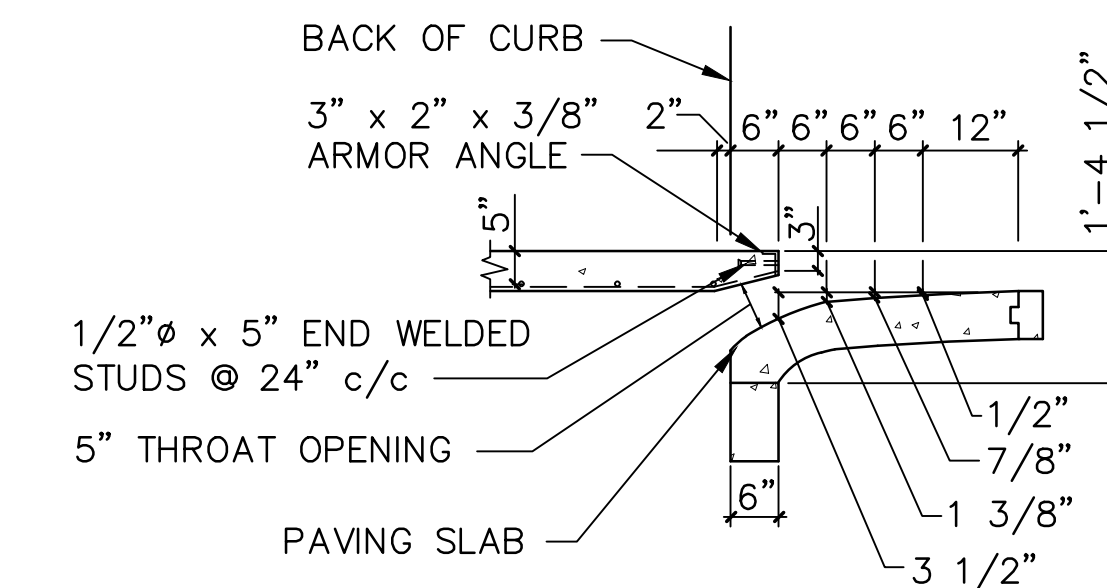
**STANDARD INLET LID DEETER 2000 W/ LETTERING**

**INLET LID DETAIL**  
NO SCALE



**INLET THROAT TEMPLATE**

**ARMOR ANGLE CORNER CUT DETAIL**



**INLET THROAT DETAILS**  
NO SCALE

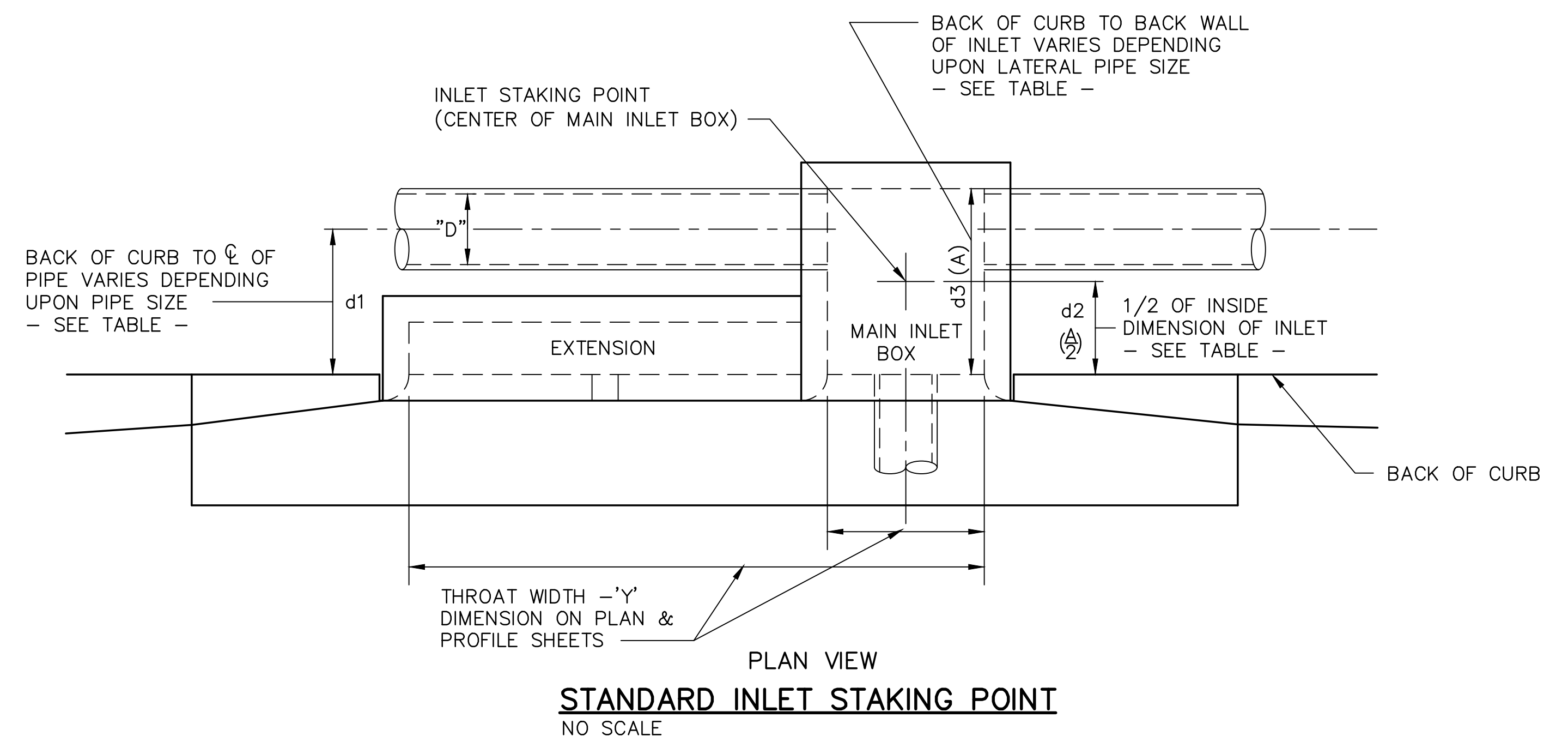
**CURB INLET DETAIL**

NO SCALE

INLET DEPTH= 'X' DIMENSION ON PLAN & PROFILE SHEETS  
d3 = 'A' DIMENSION ON PLAN & PROFILE SHEETS  
d3 = 3.00' IF NO LONGITUDINAL PIPE  
d2 = 1.50' IF NO LONGITUDINAL PIPE  
d1 = CENTER OF LONGITUDINAL PIPE BEHIND BACK OF CURB.

DIA. OF PIPE PARALLEL TO ROADWAY "D"	d1	d2 (A)	d3 (A)
12"	3.33'	2.00'	4.00'
15"	3.44'	2.12'	4.25'
18"	3.62'	2.29'	4.58'
21"	3.82'	2.46'	4.92'
24"	3.92'	2.58'	5.17'
27"	4.10'	2.75'	5.50'
30"	4.21'	2.87'	5.75'
36"	4.50'	3.17'	6.33'
42"	4.80'	3.46'	6.92'
48"	5.08'	3.75'	7.50'
54"	5.37'	4.04'	8.08'
60"	5.67'	4.33'	8.67'
66"	5.96'	4.62'	9.25'

d3 = 2(d2)



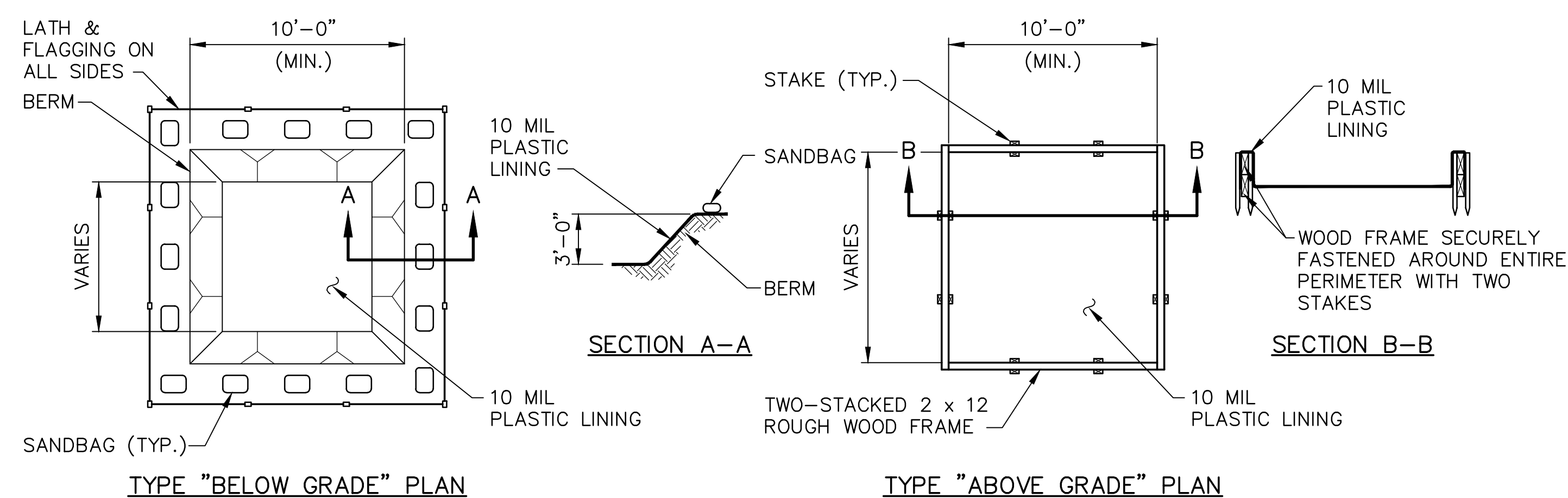
Revision/Issue	Date
----------------	------

CURB INLET DETAILS

Project Number: 2261  
Date: January 10, 2023

Copyright © 2022  
WILKINS Architecture | Design | Planning L.L.C.

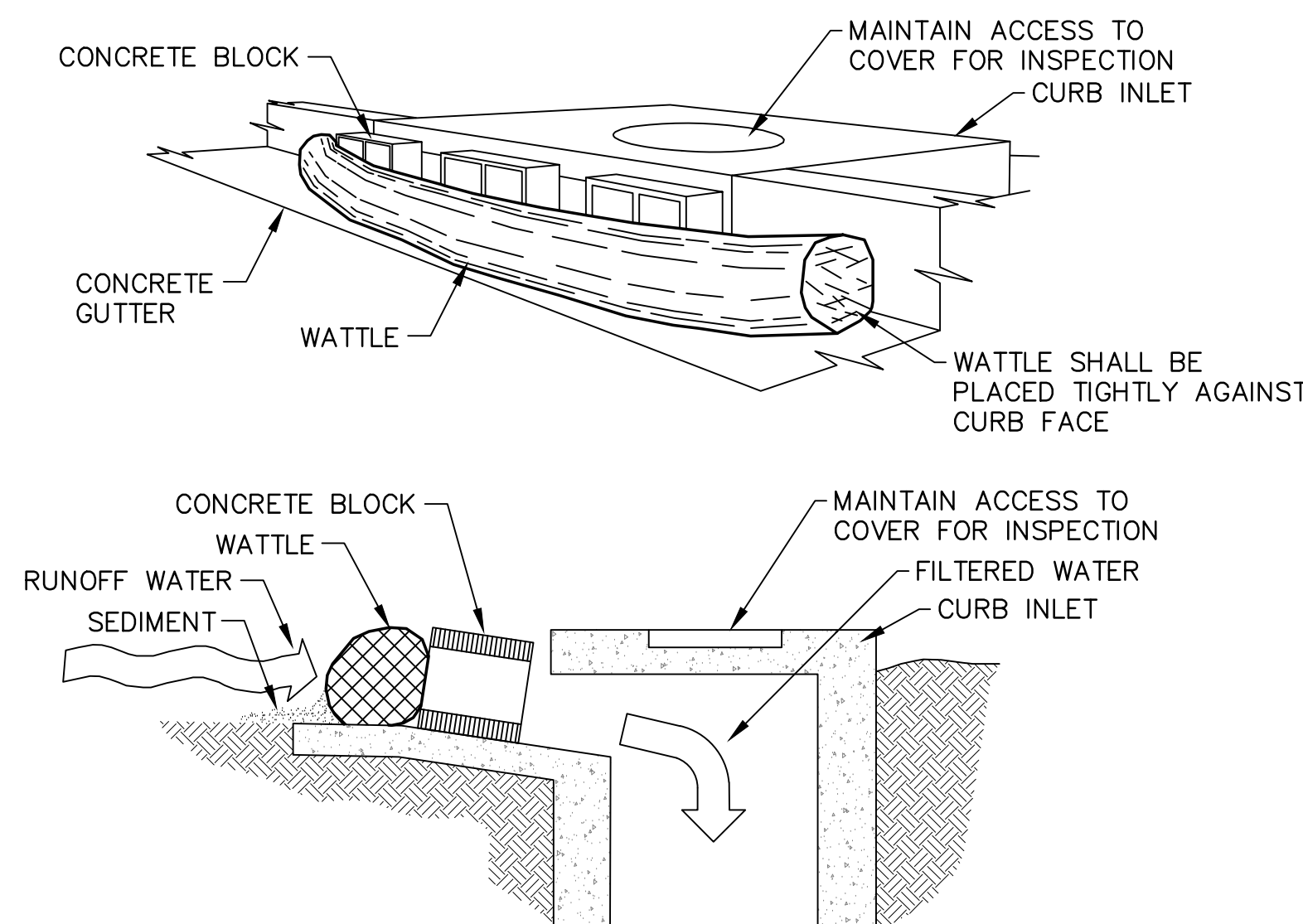
Sheet Number:



**NOTES:**

1. ACTUAL LAYOUT DETERMINED IN FIELD.
2. THE CONCRETE WASHOUT SIGN SHALL BE INSTALLED WITHIN 30 FEET OF THE TEMPORARY CONCRETE WASHOUT FACILITY.
3. CONTRACTOR TO DETERMINE ACTUAL SIZE REQUIRED TO MEET THE NEEDS FOR THE VOLUME OF CONCRETE TRUCK WASHOUT WATER ANTICIPATED PLUS RAINFALL.

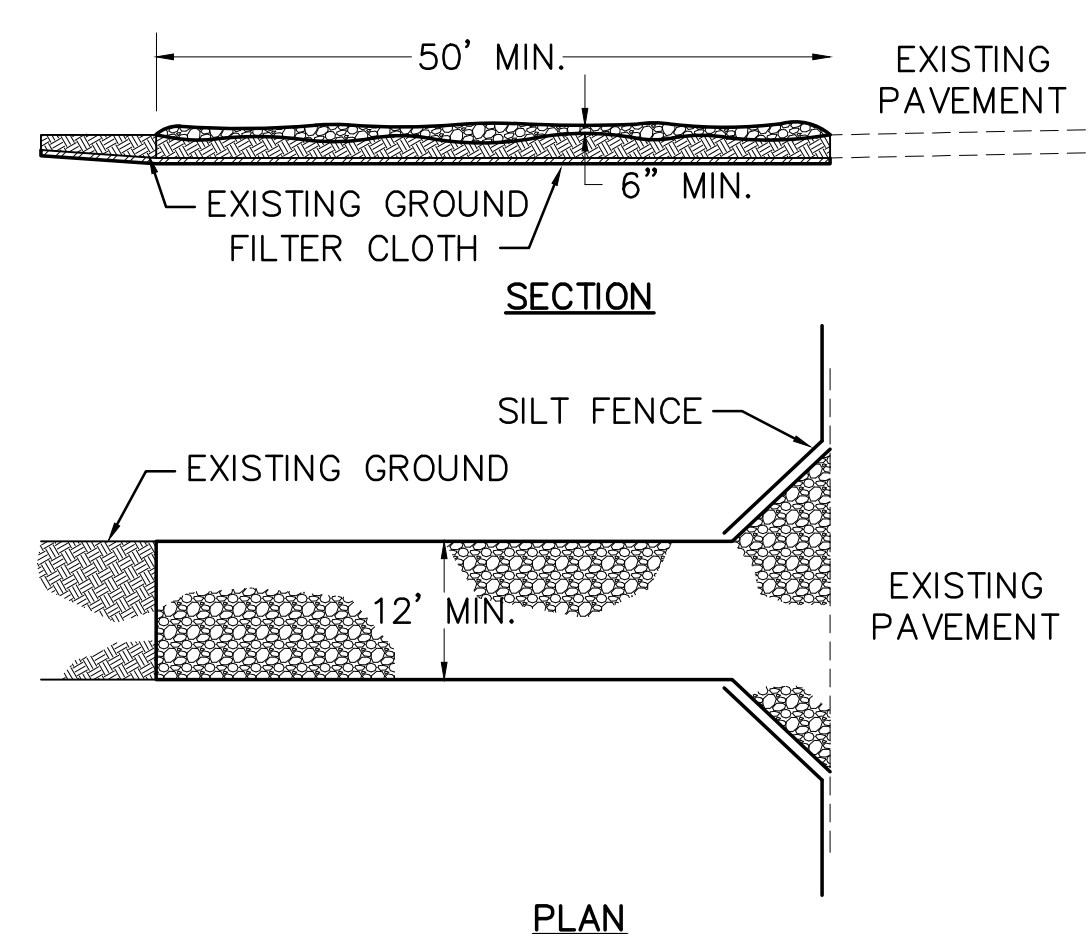
**CONCRETE WASHOUT PIT**  
NO SCALE



**NOTES:**

1. THIS METHOD OF INLET PROTECTION IS APPLICABLE AT CURB INLETS WHERE PONDING IN FRONT OF THE STRUCTURE IS NOT LIKELY TO CAUSE INCONVENIENCE OR DAMAGE TO ADJACENT STRUCTURES AND UNPROTECTED AREAS.
2. DEPENDING ON THE OPENING OF THE INLET, THE CONCRETE BLOCK MAY HAVE TO BE PLACED VERTICAL.

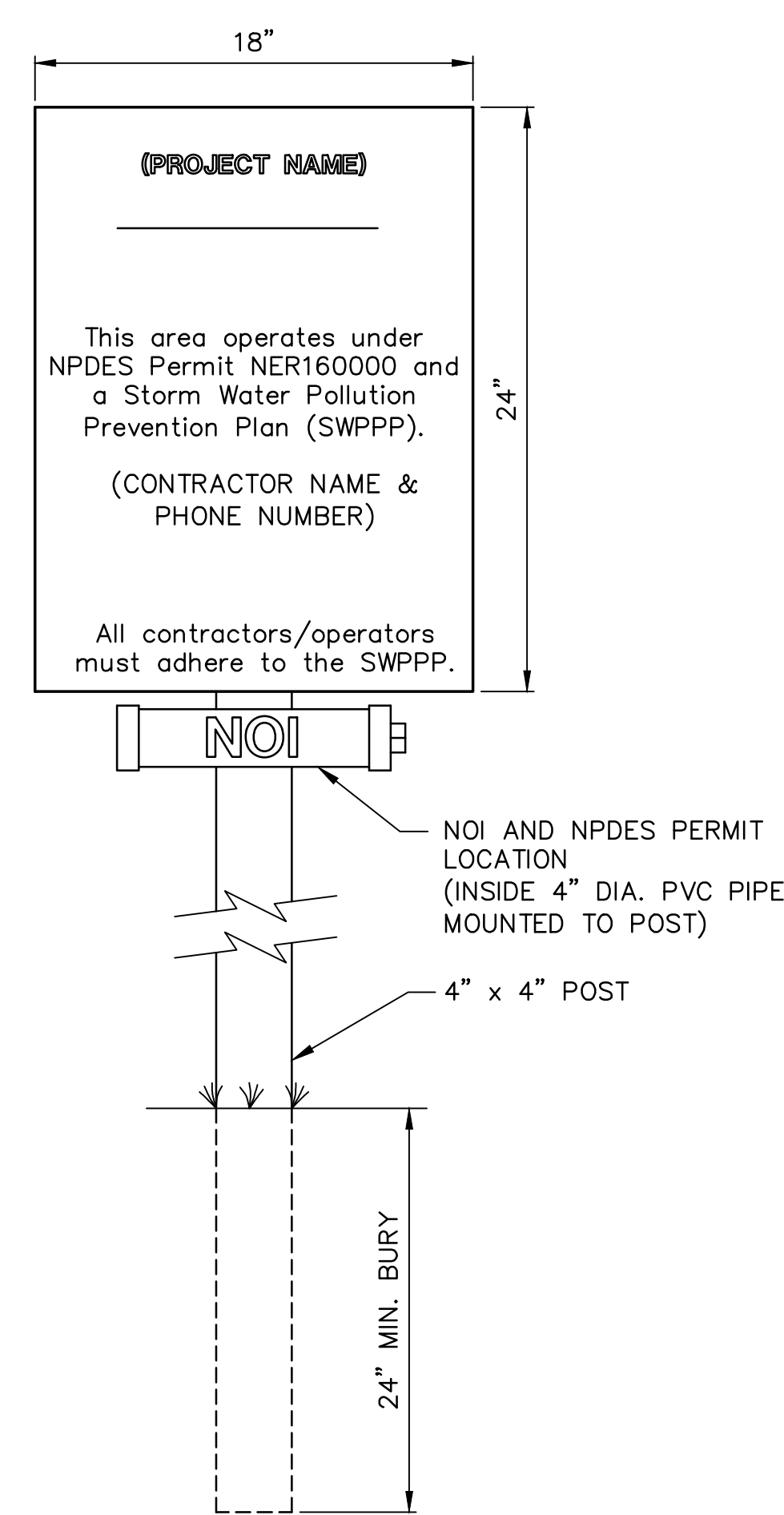
**CURB INLET PROTECTION**  
NO SCALE



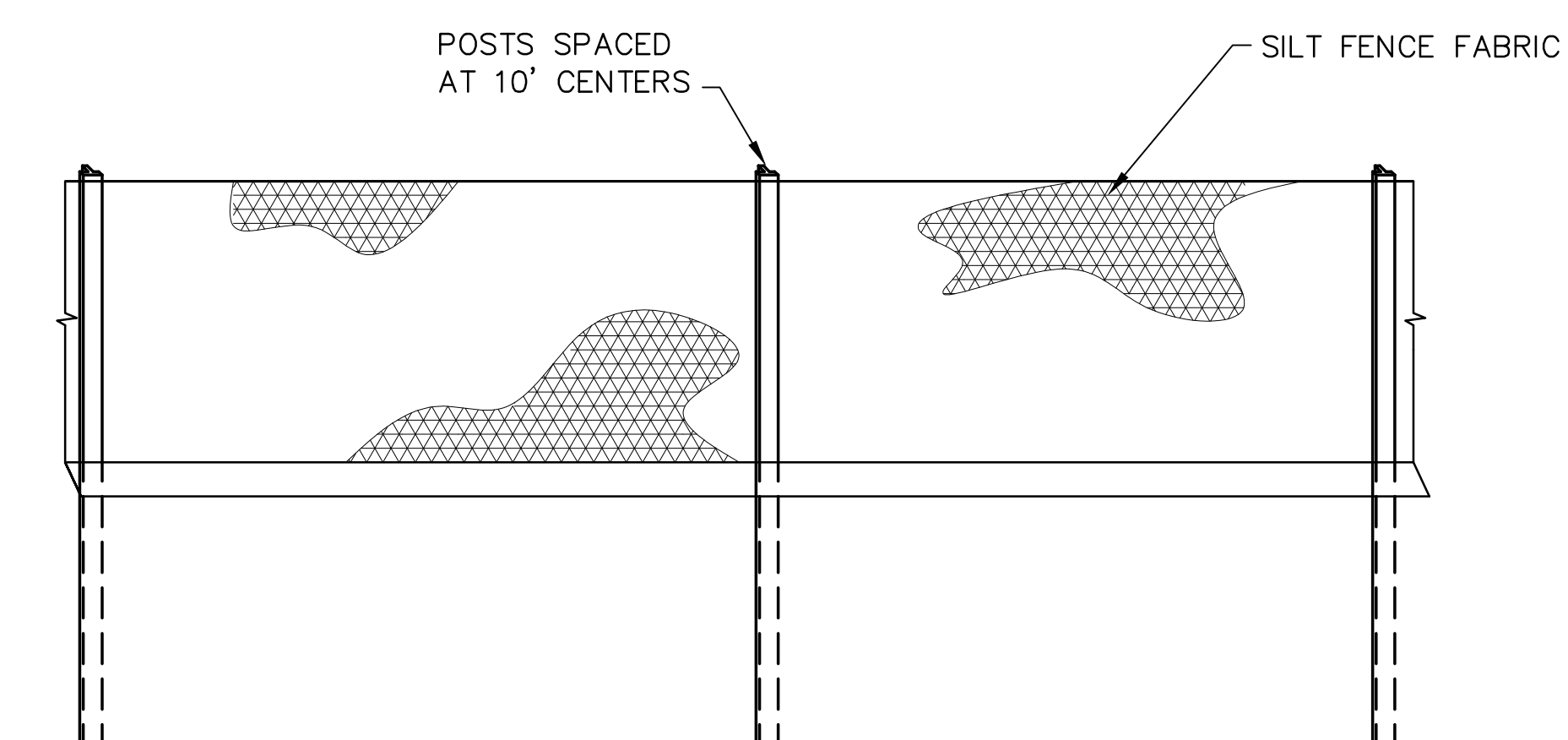
**NOTES:**

1. STONE SIZE— USE 2" STONE, OR RECLAIMED OR RECYCLED CONCRETE EQUIVALENT.
2. LENGTH— AS REQUIRED, BUT NOT LESS THAN 50 FEET (EXCEPT ON A SINGLE LOT WHERE A 30' MINIMUM LENGTH WOULD APPLY).
3. THICKNESS— NOT LESS THAN 6".
4. WIDTH— 12' MINIMUM, BUT NOT LESS THAN THE FULL WIDTH AT POINTS WHERE INGRESS OR EGRESS OCCURS.
5. FILTER CLOTH— WILL BE PLACED OVER THE ENTIRE AREA PRIOR TO PLACING OF STONE. FILTER WILL NOT BE REQUIRED ON A SINGLE FAMILY RESIDENCE LOT.
6. SURFACE WATER— ALL SURFACE WATER FLOWING OR DIVERTED TOWARD CONSTRUCTED ENTRANCE SHALL BE PIPED ACROSS THE ENTRANCE.
7. MAINTENANCE— THE ENTRANCE SHALL BE MAINTAINED IN A CONDITION WHICH WILL PREVENT TRACKING OR FLOWING OF SEDIMENT ONTO PUBLIC RIGHT-OF-WAY. THIS MAY REQUIRE PERIODIC TOP DRESSING WITH ADDITIONAL STONE AS CONDITIONS DEMAND AND REPAIR AND/OR CLEAN OUT OF ANY MEASURES USED TO TRAP SEDIMENT. ALL SEDIMENT SPILLED, DROPPED, WASHED OR TRACKED ONTO PUBLIC RIGHTS-OF-WAY MUST BE REMOVED IMMEDIATELY.
8. WASHING— WHEELS SHALL BE CLEANED TO REMOVE SEDIMENT PRIOR TO ENTRANCE ONTO PUBLIC RIGHTS-OF-WAY. WHEN WASHING IS REQUIRED, IT SHALL BE DONE ON AN AREA STABILIZED WITH STONE AND WHICH DRAINS TO AN APPROVED SEDIMENT TRAPPING DEVICE.
9. PERIODIC INSPECTION AND NEEDED MAINTENANCE SHALL BE PROVIDED AFTER EACH DRAIN.

**ROCK ENTRANCE ROAD DETAIL**  
NO SCALE

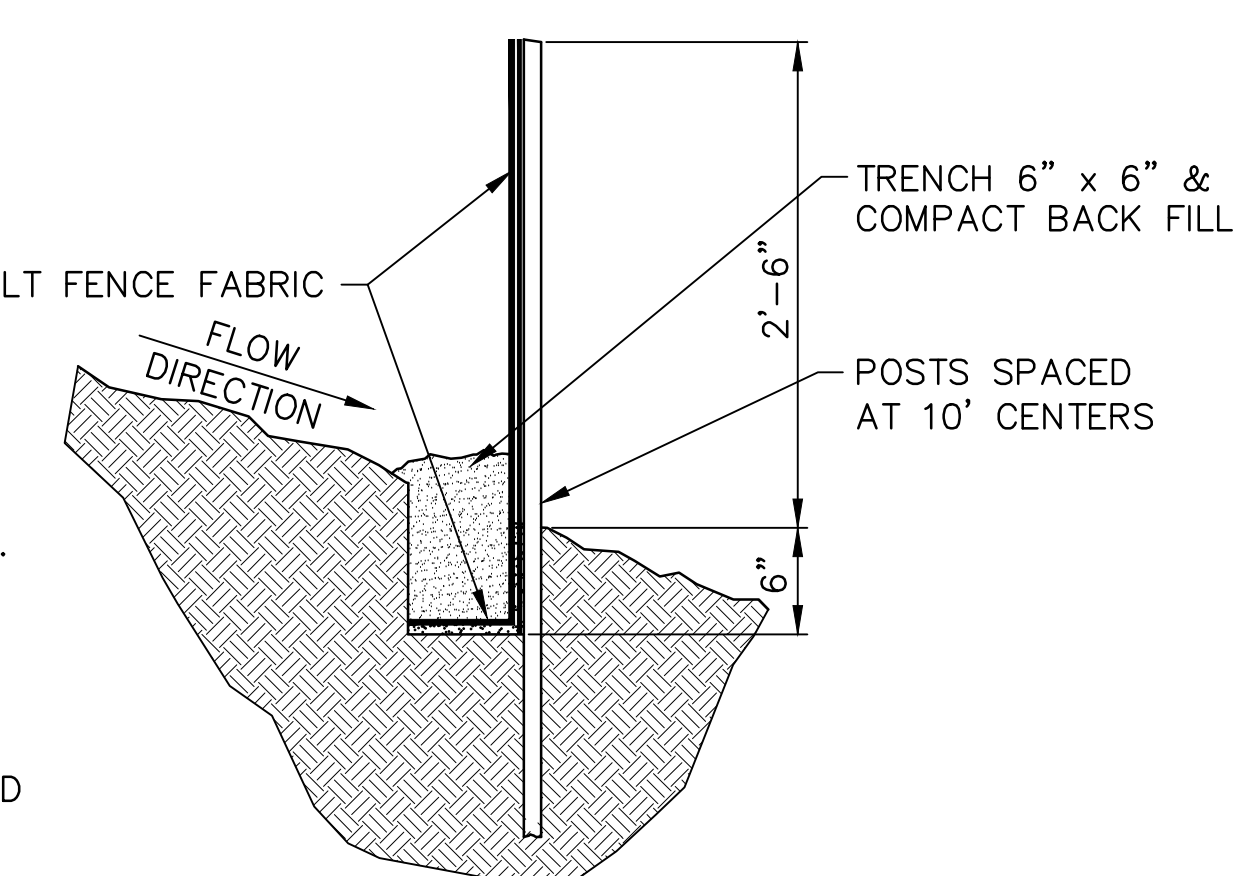


**SWPPP & PERMIT SIGN**  
NO SCALE



**INSTALLATION:**

1. DIG A 6" X 6" TRENCH.
2. PLACE POSTS INTO GROUND WITH FABRIC ON UPSTREAM SIDE OF POST, PLACE FABRIC IN TRENCH.
3. USE EXCAVATED SOIL TO BACK FILL TRENCH.
4. WHEN CONNECTING TWO SECTIONS OF FABRIC OVERLAP A MINIMUM OF 6' AND USE 2 COMMON POSTS ON SPLICE.
5. MAINTENANCE SHALL BE PERFORMED AS NEEDED AND MATERIAL SHALL BE REMOVED WHEN 1/3 OF THE EXPOSED FABRIC IS COVERED.



**STANDARD SILT FENCE**  
NO SCALE

**CITY OF LEXINGTON**  
**LEXINGTON RACQUET CENTER**  
Lexington, NE

Revision/Issue	Date

EROSION CONTROL DETAILS

Project Number: 2261  
Date: January 10, 2023

Copyright © 2022  
WILKINS Architecture | Design | Planning L.L.C.

Sheet Number:

**C2.4**

**APPLICABLE CODES AND BUILDING DATA**

**STATE OF NEBRASKA**  
 Nebraska has adopted the following Codes which are applicable to this project:  
 International Building Code - 2018 Edition  
 (This code is not enforced by any state agency)  
 National Electrical Code - 2017 Edition  
 (This code will be enforced by the Nebraska State Electrical Board)

Title 153 State Fire Marshal  
 Ch. 1 - Nebraska State Fire Code Regulations Adopted NFPA Fire Code Standards including the following applicable regulations:

- NFPA 1 Fire Prevention Code - 2003
- NFPA 10 Portable Fire Extinguishers - 2002
- NFPA 13 Installation of Sprinkler Systems - 2002
- NFPA 54 National Fuel Gas Code (As Amended) - 2002
- NFPA 72 National Fire Alarm Code - 2002
- NFPA 80 Fire Doors and Windows - 1999
- NFPA 90A AC & Ventilating Systems - 2002
- NFPA 101 Life Safety Code (LSC) - 2012
- NFPA 220 Types of Building Construction - 2000

(These regulations are enforced by the Nebraska State Fire Marshal)

State of Nebraska Accessibility Guidelines Title 156 - October 1, 1994 (NAG).

**Americans with Disabilities Act**  
 ADA is applicable to this building under Title II as a Public Entity. Title II of the ADA specifically refers to any state or local government services. Therefore, a school is considered a "Public Entity." Americans with Disabilities Act Accessibility Guidelines for Building and Facilities - 1991 (ADA)  
 (These Regulations are enforced by the U.S. Justice Department)

**BUILDING DATA:**

Occupancy Groups: Assembly (A-4) (IBC)  
 New Assembly (NFPA)  
 Mixed Use: No Mixed Use. All one occupancy group  
 Construction Type: IB, unprotected-noncombustible (IBC), Type II (000) (LSC)  
 Fire Separation Distances: North Yard = 30+ Feet  
 East Yard = 30+ Feet  
 South Yard = 30+ Feet  
 West Yard = 30+ Feet

Fire Resistance Ratings For Building Elements:

Element	Hours
Primary Structural Frame:	0
Exterior Bearing Walls:	0
Interior Bearing Walls:	0
Exterior Nonbearing Walls and Partitions:	0 (IBC Table 602)
Interior Nonbearing Walls and Partitions:	0
Floor Construction and Secondary Members:	0 (not applicable to this project)
Roof Construction and Secondary Members:	0

**Building Height and Number of Stories:**

**OCCUPANCY:**  
 HEIGHT Proposed 34'-10"  
 Allowed Non-Sprinklered = 55' (IB), 40' (VB)  
 Sprinklered = 75' (IB), 60' (VB)

**STORIES**  
 Proposed 1  
 Allowed Non-Sprinklered = 2 (IB), 1 (VB)  
 Sprinklered = 3 (IB), 2 (VB)  
 1 (NFPA)

**Building Area Calculations:**

OCCUPANCY:	A-4
TYPE OF CONSTRUCTION:	IB
TABULAR AREA (TABLE 506.2):	9,500 (IB)
NUMBER OF STORIES PROPOSED:	1
FRONTAGE INCREASE:	0.7500
PROPOSED FIRST FLOOR (PFA):	31,125 SF
ALLOWED AREA PER FLOOR (APF):	[38,000 ÷ (9,500 x .75)] = 45,125 SF

Occupancy Load Factor Sq. Ft./Occupant:  
 Storage & Mechanical rooms: 300 Gross

Fire Protection Systems:  
 Fire Extinguishers provided  
 No Automatic Fire Sprinkler System provided (Not required per NFPA 12.3.5.3)

**Exit Requirements:**  
 Corridor Dead-End Maximum: 20 feet (A-4, non-sprinklered) (IBC, 1018.4)  
 Common Path of Travel (Max): 75 feet - (IBC, 1014.3)  
 30 feet from fixed seating (A-4) - (IBC 1028.8)  
 Travel Distance (Max): 200 feet without Automatic Sprinkler System (LSC, 12.2.6.2)  
 250 feet with Automatic Sprinkler System (LSC, 12.2.6.2)  
 When Two Exits Required: Separation of not less than 1/3 the maximum diagonal dimension of the area served with building equipped throughout automatic sprinkler system (1/2 in non-sprinklered)  
 Exit Illumination: Required in means of egress including exit discharge  
 Emergency Lighting: Required in corridors, windowless classrooms, lobbies, and assembly areas  
 Exit Signs: Required at exits and within path of egress travel such that exist signs are no more than 100 feet in viewing distance or within the listed viewing distance.

**CODE PLAN NOTES**

- ALL WALLS OF FIRE-RESISTIVE CONSTRUCTION SHALL EXTEND FROM FINISHED FLOOR TO UNDERSIDE OF FLOOR OR ROOF DECK ABOVE.
- INSTALL TAPE AND JOINT COMPOUND FOR ALL JOINTS IN ALL GWB WALLS AND CEILING.
- INSTALL FIRE SEALANT/PENETRATION FIRESTOPPING SYSTEM TO ALL PENETRATIONS IN RATED WALLS AND ROOF/FLOOR ASSEMBLIES. EACH CONSTRUCTION TRADE IS RESPONSIBLE FOR SEALING ALL PENETRATIONS/OPENINGS WITH THE APPROPRIATE SYSTEM AS PER PENETRATION FIRESTOPPING SPECIFICATIONS IN PROJECT MANUAL.
- FILL IRREGULARITIES BETWEEN TOP OF WALL AND DECK ABOVE WITH FIRE SEALING INSULATION OR FIRESTOPPING MATERIALS AS REQUIRED TO MEET FIRE RATING OF RESPECTIVE WALLS.
- IDENTIFY ALL RATED WALLS IN ACCESSIBLE CONCEALED CEILING SPACES (PLDNUMS). PROVIDE 1 INCH HIGH PAINTED STENCILED LETTERS ON EACH VISIBLE FACE OF WALL. REPEAT AT INTERVALS NOT EXCEEDING 30 FEET MEASURED HORIZONTALLY. LETTERING TO IDENTIFY WALL RATING. INCORPORATING THE SUGGESTED WORDING: "2-HR FIRE WALL - PROTECT ALL OPENINGS".

**CODE PLAN LEGEND**

- 1 HR SMOKE BARRIER
  - SEE PLAN FOR WALL TYPES
  - EXTEND FROM FINISHED FLOOR TO BOTTOM OF ROOF ASSEMBLY ABOVE
  - IBC 407
  - NFPA 101 SEC. 18.3.7.1

**BUILDING DATA:**

- 1 HR FIRE BARRIER (IBC) - EXTEND RATING FROM FLOOR ASSEMBLY UP TO ROOF ASSEMBLY
  - A. 1-Hour rated fire-resistive vertical (floor to floor or roof deck) and/or horizontal (floor) construction with 3/4-hour rated doors (1-hour for penetrations through shaft and exit enclosures). Automatic-closing doors shall have smoke-detecter-activated (S-D-A) magnetic hold-open devices per IBC 715.4.8.3. All S-D-A automatic-closing doors and smoke dampers shall be activated, by actuation of any fire alarm device or sprinkler system, when required, and power failure. Aggregate width of all openings shall not exceed 25% of the length of the wall and single openings shall not exceed 156 square feet. Openings not limited to 156 square feet where adjoining floor areas are equipped throughout with an automatic sprinkler system. Openings shall not be limited to 156 square feet or an aggregate width of 25% of the length of the wall where the opening protective has been tested in accordance with ASTM E 119 or UL 263 and has a minimum fire-resistance rating not less than the fire-resistance rating of the wall.
  - B. 3/4-Hour doors may 3/4-Hour fire protective glass up to the maximum size tested. 1-Hour doors may have up to 100-square-inches of fire-protection rated glass or must be fire-resistance rated glazing if in excess of 100-square inches.
  - C. Duct and air transfer openings shall be protected by approved fire dampers. Fire dampers are not required at walls penetrated by ducted HVAC system (supply, return or exhaust air), having a required fire-resistance rating of 1 hour or less, are in areas of other than Group H and in buildings equipped throughout with an automatic sprinkler system. Duct system shall be constructed of sheet metal not less than No. 26 gauge thickness and shall be continuous from the air-handling appliance or equipment to the air outlet and inlet terminals.
  - D. Seal around all through penetrations (ducts without fire and/or smoke dampers, pipes and conduit penetrations, etc) with an approved penetration firestop system installed as tested in accordance with ASTM E 814 or UL 1479. Fire and/or smoke dampers at duct penetrations shall be mounted and sealed in wall with factory fabricated sleeves and perimeter mounting angles. Seal top of wall to floor or roof deck with an approved fire-resistant joint system tested in accordance with ASTM E 1986 or UL 2079 (sealing insulation with continuous sealant at joints as detailed and as specified in Division 07 Specification Section "Firestopping").

**SYMBOL LEGEND**

- 0 - ROOM OCCUPANT LOAD
- 0 - COMBINED OCCUPANT LOAD AT A GIVEN DOOR
- 0 - TOTAL EXIT CAPACITY OF DOOR
- (CAPACITY OF DOORS IS DETERMINED AS FOLLOWS:  
CLEAR OPENING WIDTH IN INCHES DIVIDED BY 0.2)
- 0 - COMBINED OCCUPANT LOAD AT A GIVEN DOOR (SUM OF THESE EQUALS TOTAL OCCUPANT LOAD)
- 0 - TOTAL EXIT CAPACITY OF DOOR(S)
- (CAPACITY OF DOORS IS DETERMINED AS FOLLOWS:  
CLEAR OPENING WIDTH IN INCHES DIVIDED BY 0.2)

**PLUMBING FIXTURE COUNT**

PER 2021 UNIFORM PLUMBING CODE TABLE 422.1, MINIMUM PLUMBING FACILITIES:

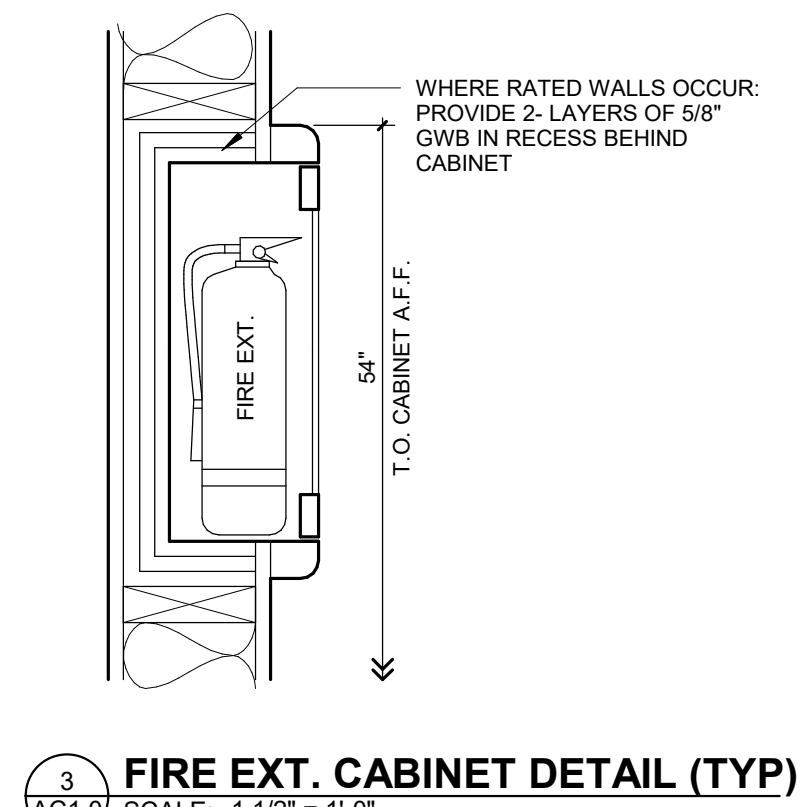
**ASSEMBLY (A-4) OCCUPANCY**

**PLUMBING FIXTURES REQUIRED:**  
 340 Occupant/2 = 170 Males + 170 Females  
 Male Water Closets (2: 101-200) = 2  
 Male Urinals (2: 101-200) = 2  
 Female Water Closets (4: 101-200) = 4  
 Male Lavatories (1: 1-200) = 1  
 Female Lavatories (2: 101-200) = 2

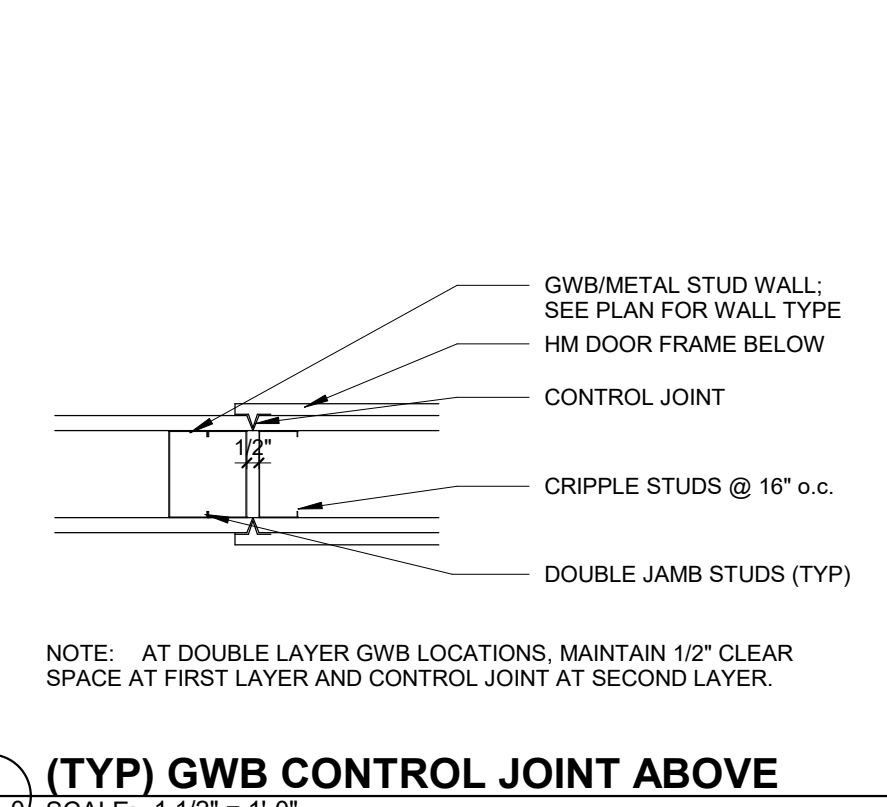
2 Male Waterclosets + 4 Female Waterclosets = 6 WCs total  
 2 Male Urinals = 2 URNs total  
 1 Male Lavatories + 2 Female Lavatories = 3 LAVs total

Drinking Fountains (2: 251-500) = 2  
 Service Sink (1 required)

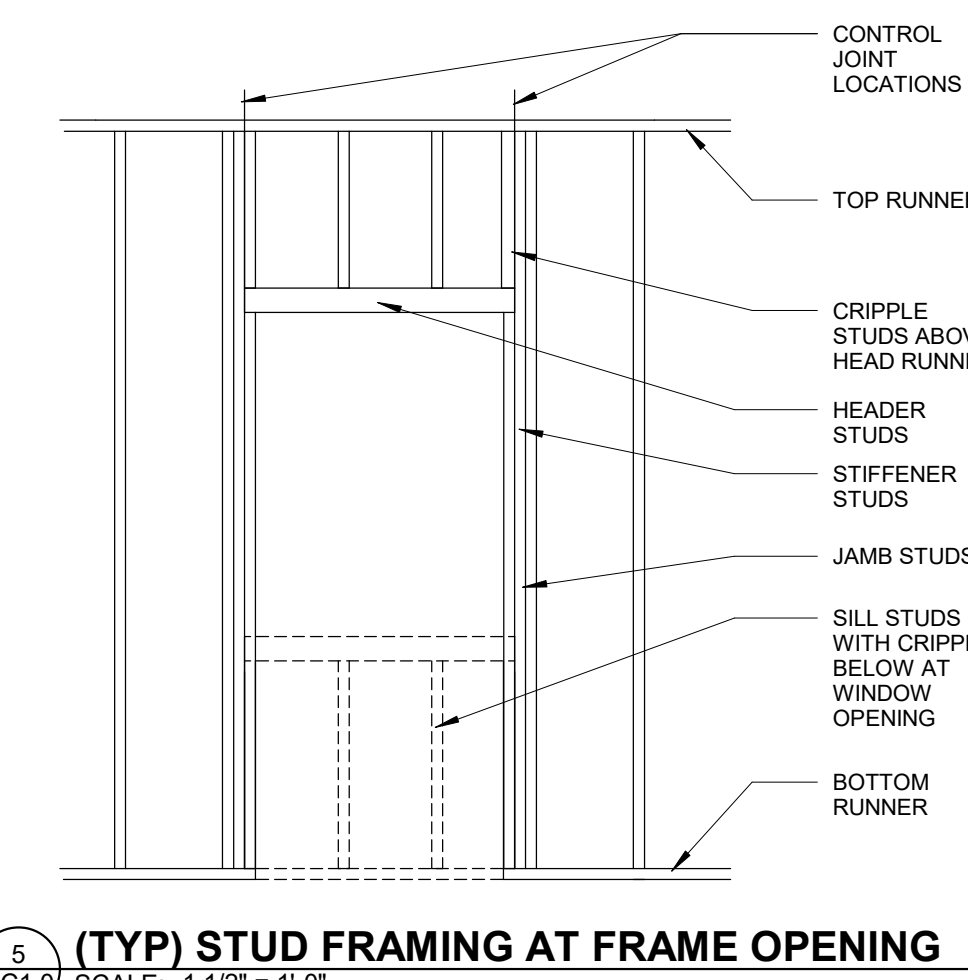
**PLUMBING FIXTURES PROVIDED:**  
 2 Male WC + 4 Female WC = 6 WCs total  
 2 Male Urinals = 2 URNs total  
 4 LAVs at Washfourtain = 4 LAVs total  
 2 Drinking Fountains = 2 DFs total  
 1 Service Sink = 1 Service Sink



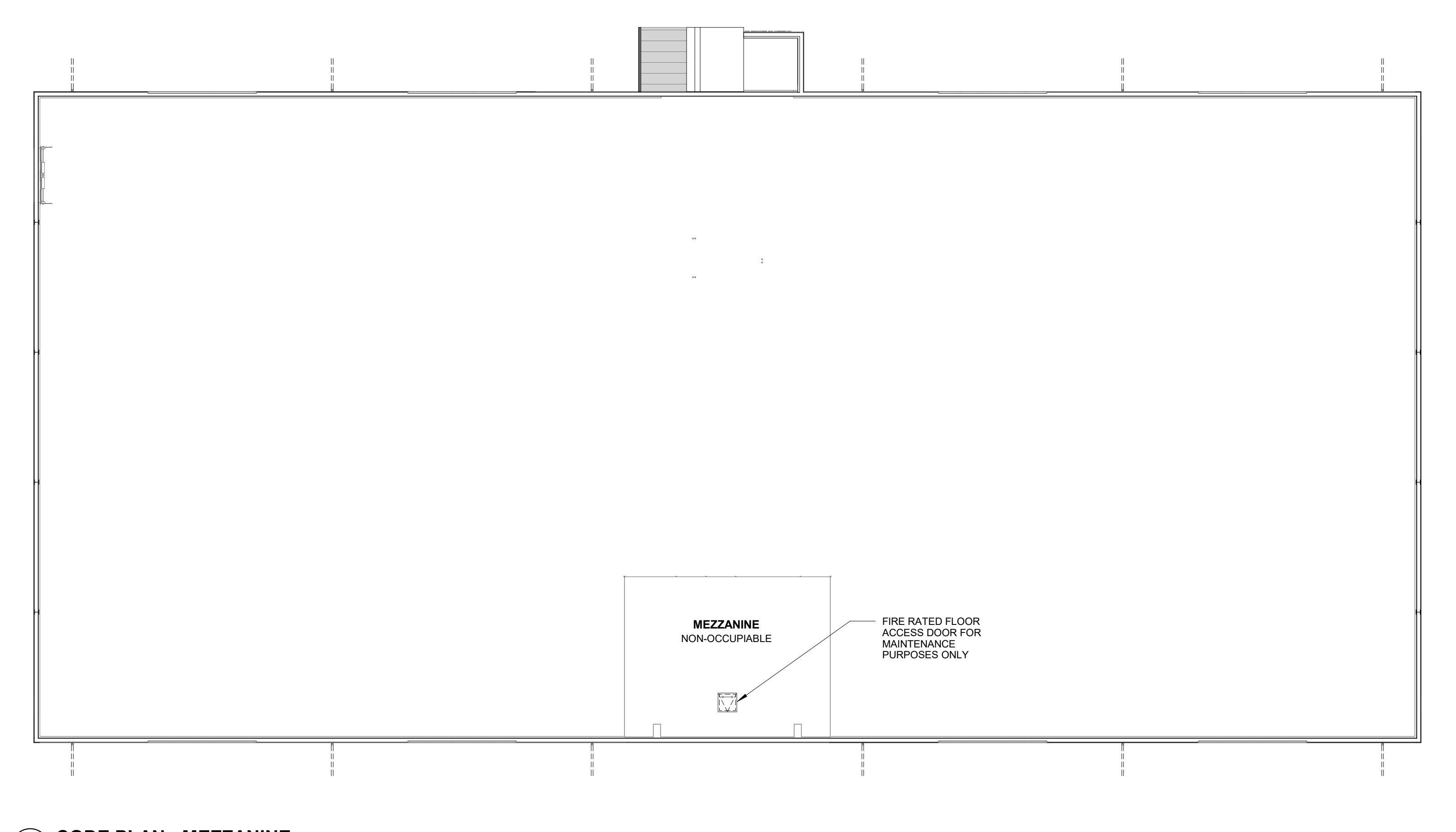
3 (TYP) FIRE EXT. CABINET DETAIL (TYP)  
 SCALE: 1 1/2" = 1'-0"



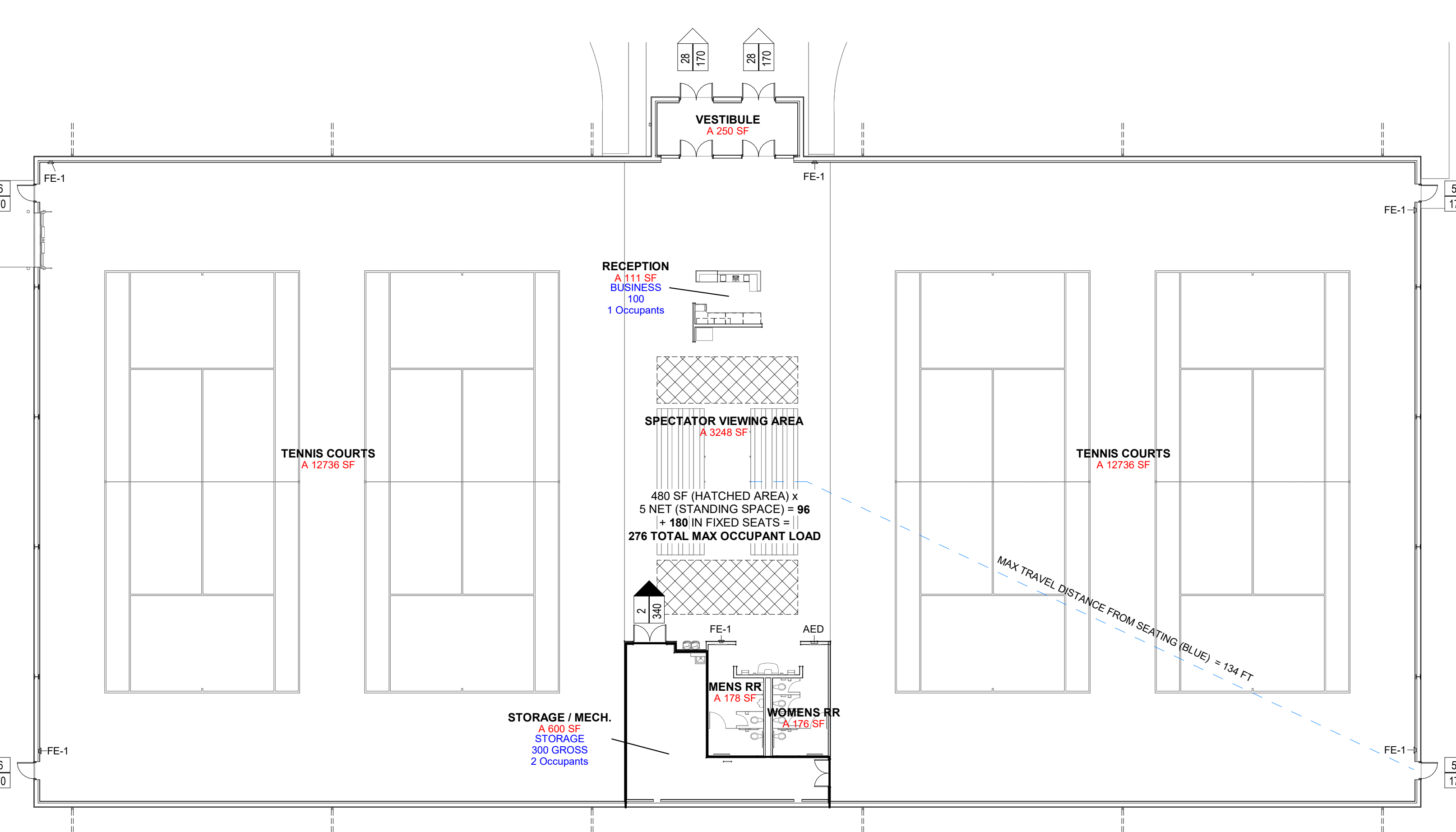
4 (TYP) GWB CONTROL JOINT ABOVE  
 SCALE: 1 1/2" = 1'-0"



5 (TYP) STUD FRAMING AT FRAME OPENING  
 SCALE: 1 1/2" = 1'-0"



2 (TYP) CODE PLAN - MEZZANINE  
 SCALE: 1/16" = 1'-0"



1 (TYP) CODE PLAN - GROUND FLOOR  
 SCALE: 1/16" = 1'-0"



Revision/Issue	Date

Overall Floor Plan & Code Information

Project Number: 2261  
 Date: January 10, 2023

Copyright © 2023  
 WILKINS Architecture | Design | Planning LLC.

Sheet Number:

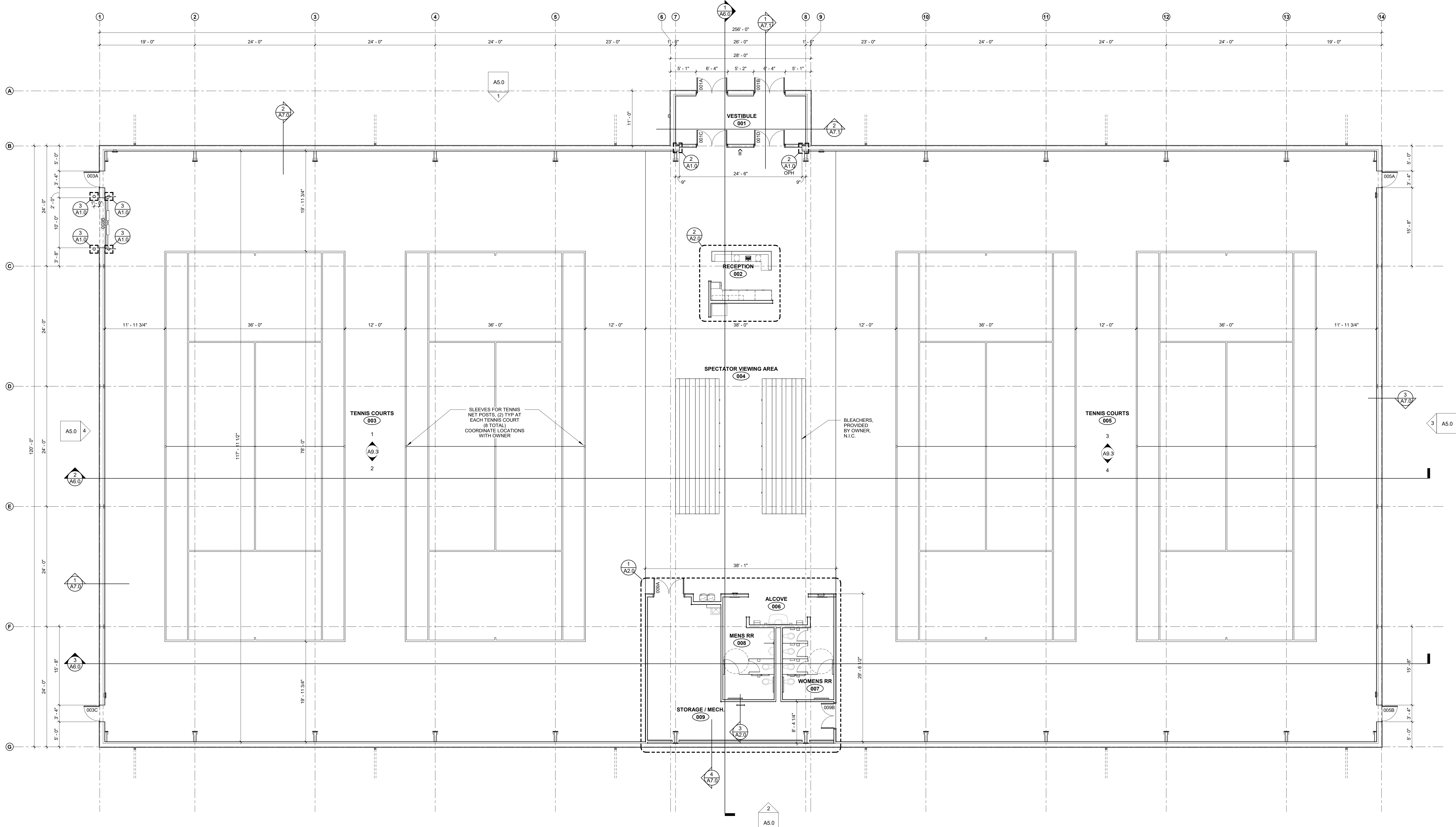






PLAN DETAIL - VESTIBULE (EW-2)  
SCALE: 1 1/2" = 1'-0"

BOLLARD SECTION AND PLAN DETAIL  
SCALE: 3/4" = 1'-0"



FLOOR PLAN - GROUND FLOOR  
SCALE: 1/8" = 1'-0"

CITY OF LEXINGTON  
LEXINGTON RACQUET CENTER  
Lexington, NE

Revision/Issue	Date

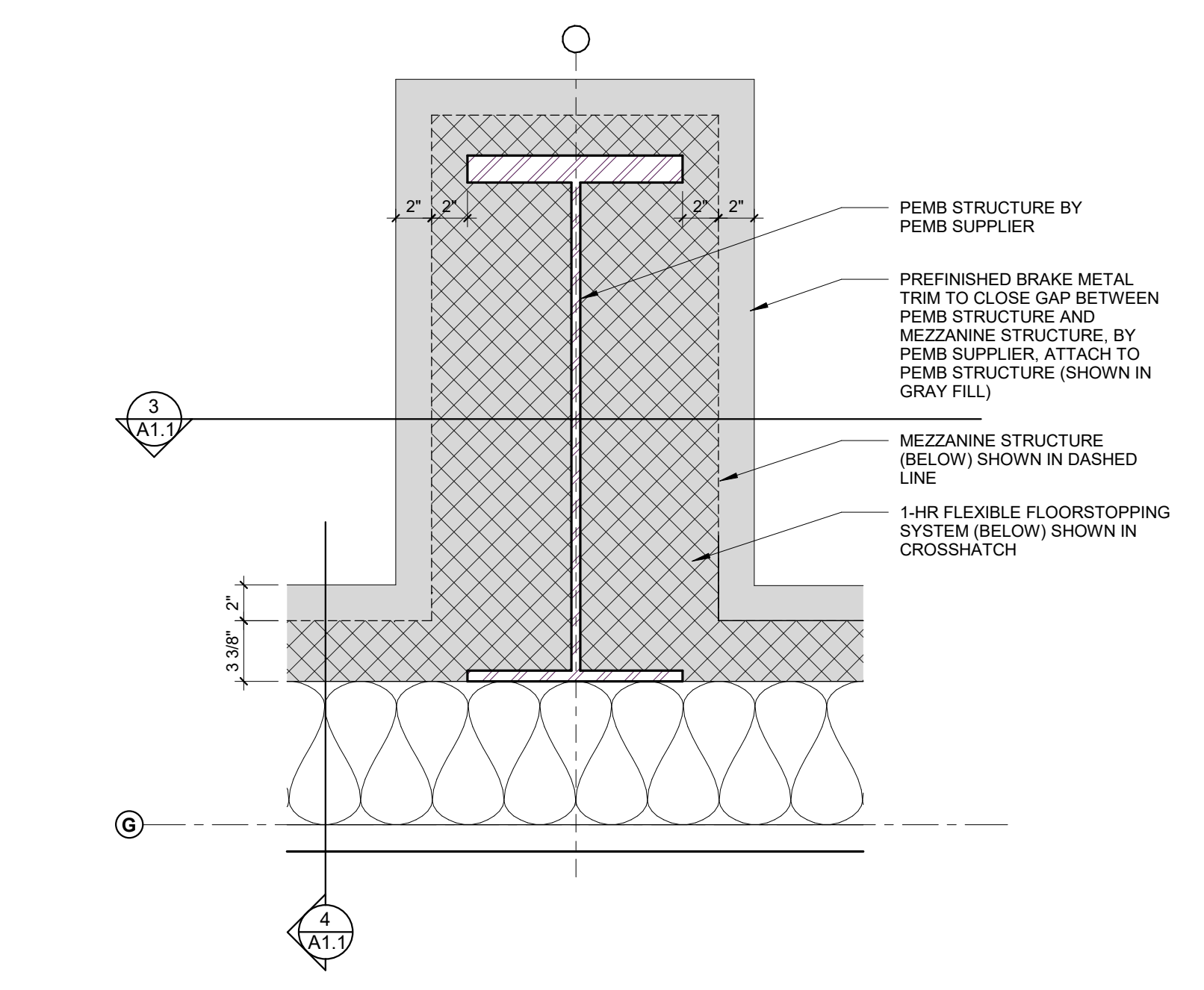
Overall Floor Plan

Project Number: 2261  
Date: January 10, 2023

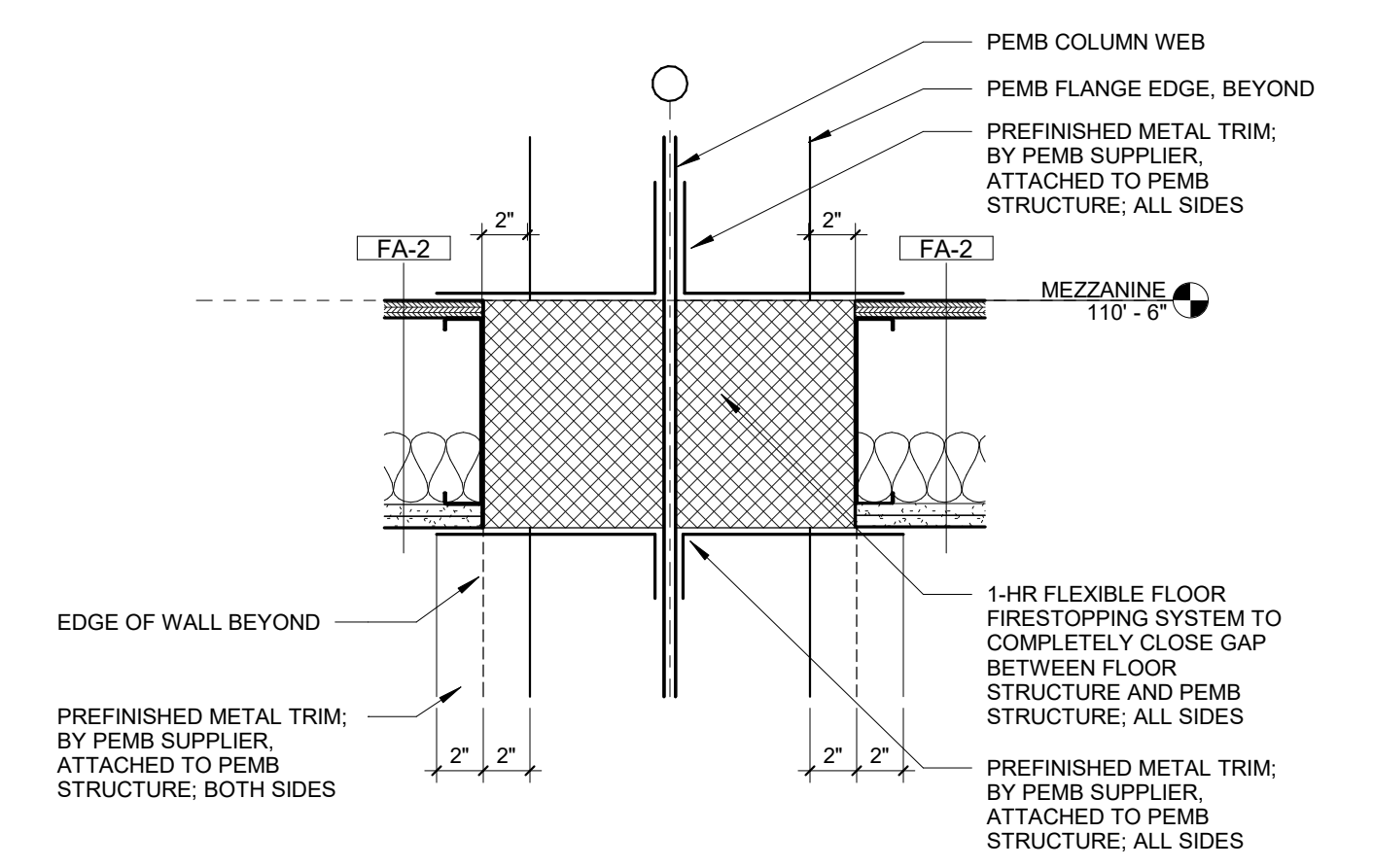
Copyright © 2023  
WILKINS Architecture | Design | Planning | L.L.C.

Sheet Number:

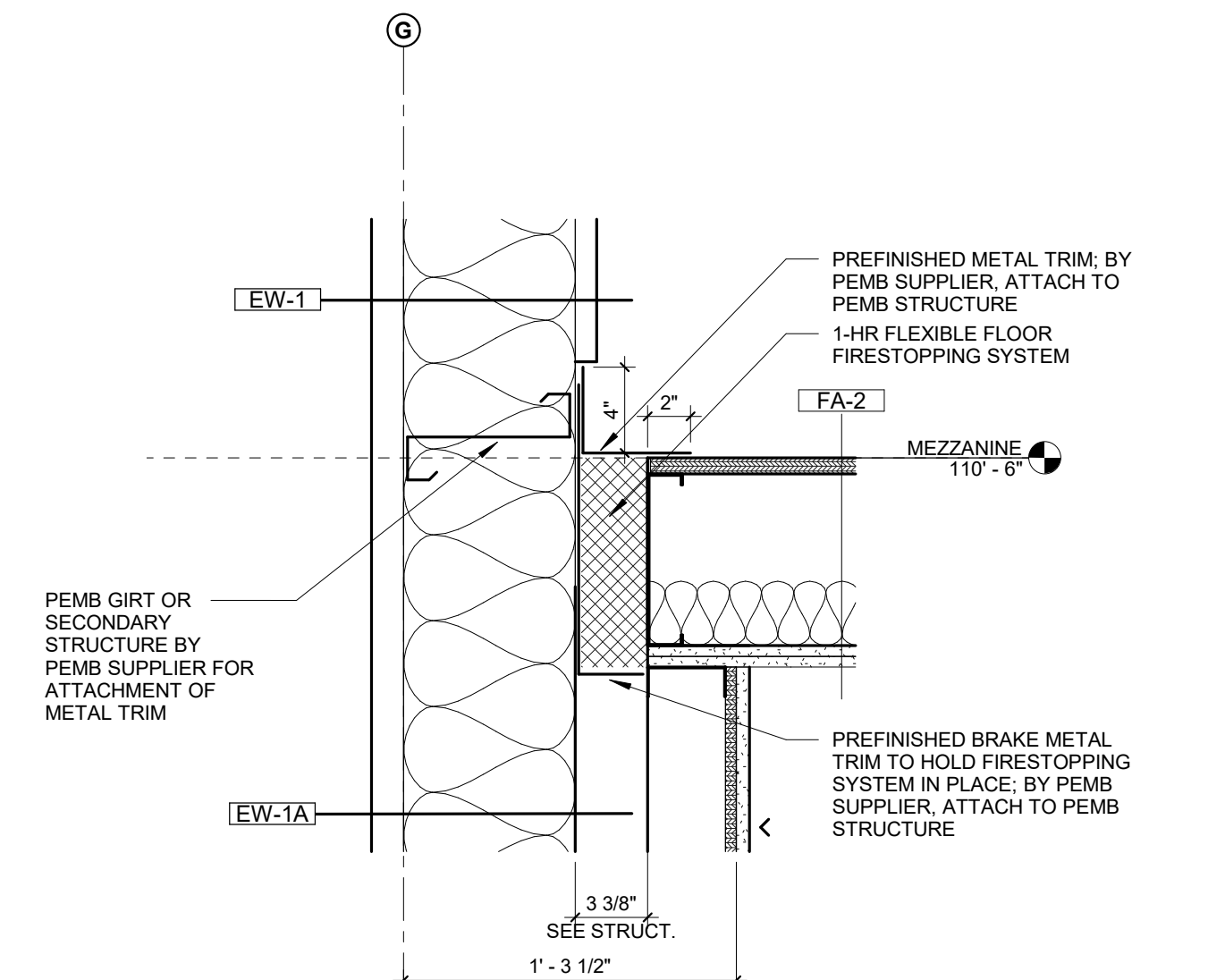
A1.0



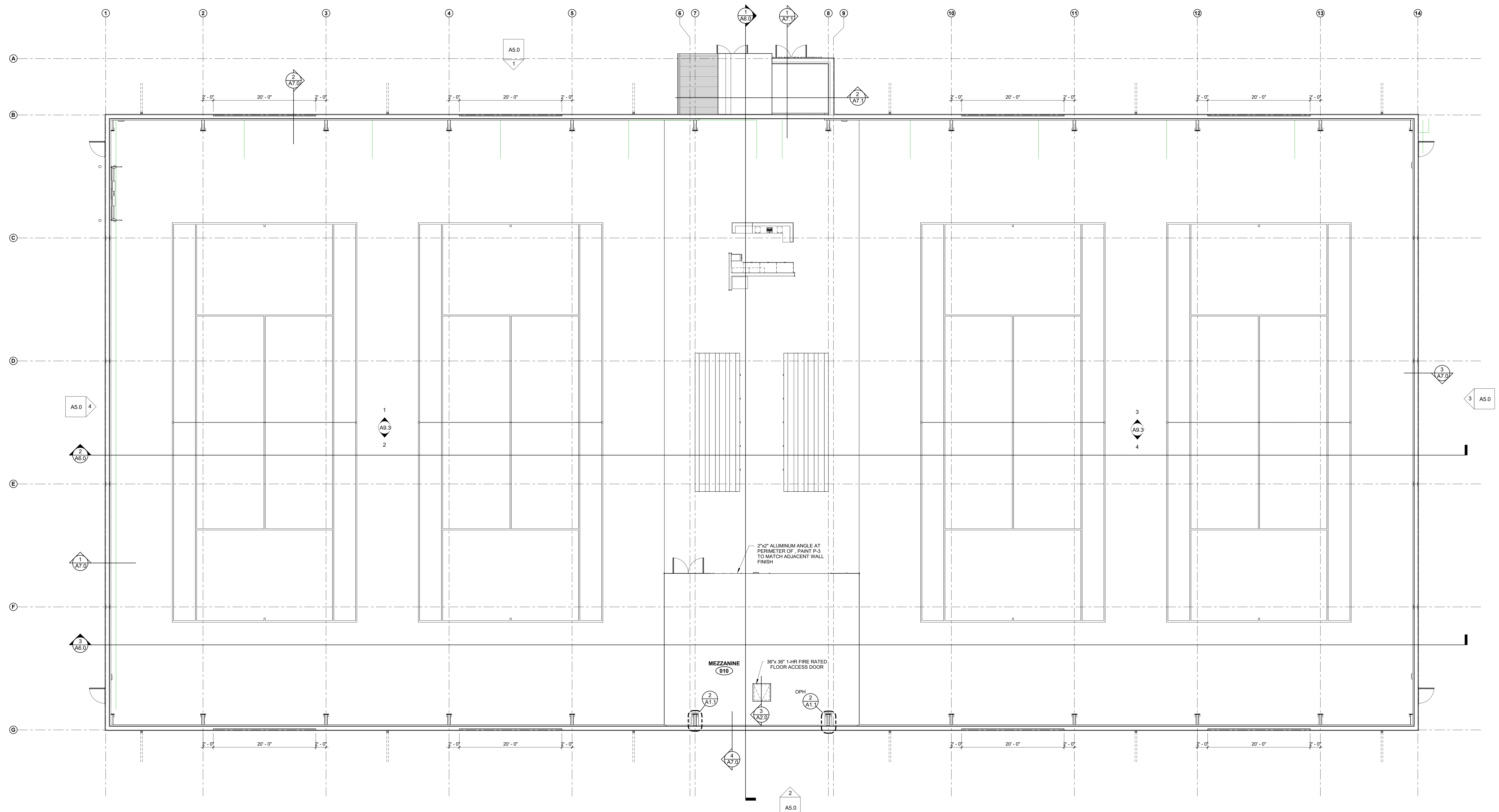
**2 PLAN DETAIL - MEZZANINE FLOOR AT PEMB STRUCTURE**  
SCALE: 1 1/2" = 1'-0"



**3 SECTION DETAIL - MEZZANINE FLOOR AT PEMB COLUMN**  
SCALE: 1 1/2" = 1'-0"



**4 SECTION DETAIL - MEZZANINE FLOOR TO PEMB WALL**  
SCALE: 1 1/2" = 1'-0"



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

**CITY OF LEXINGTON  
LEXINGTON RACQUET CENTER  
Lexington, NE**

Revision/Issue	Date

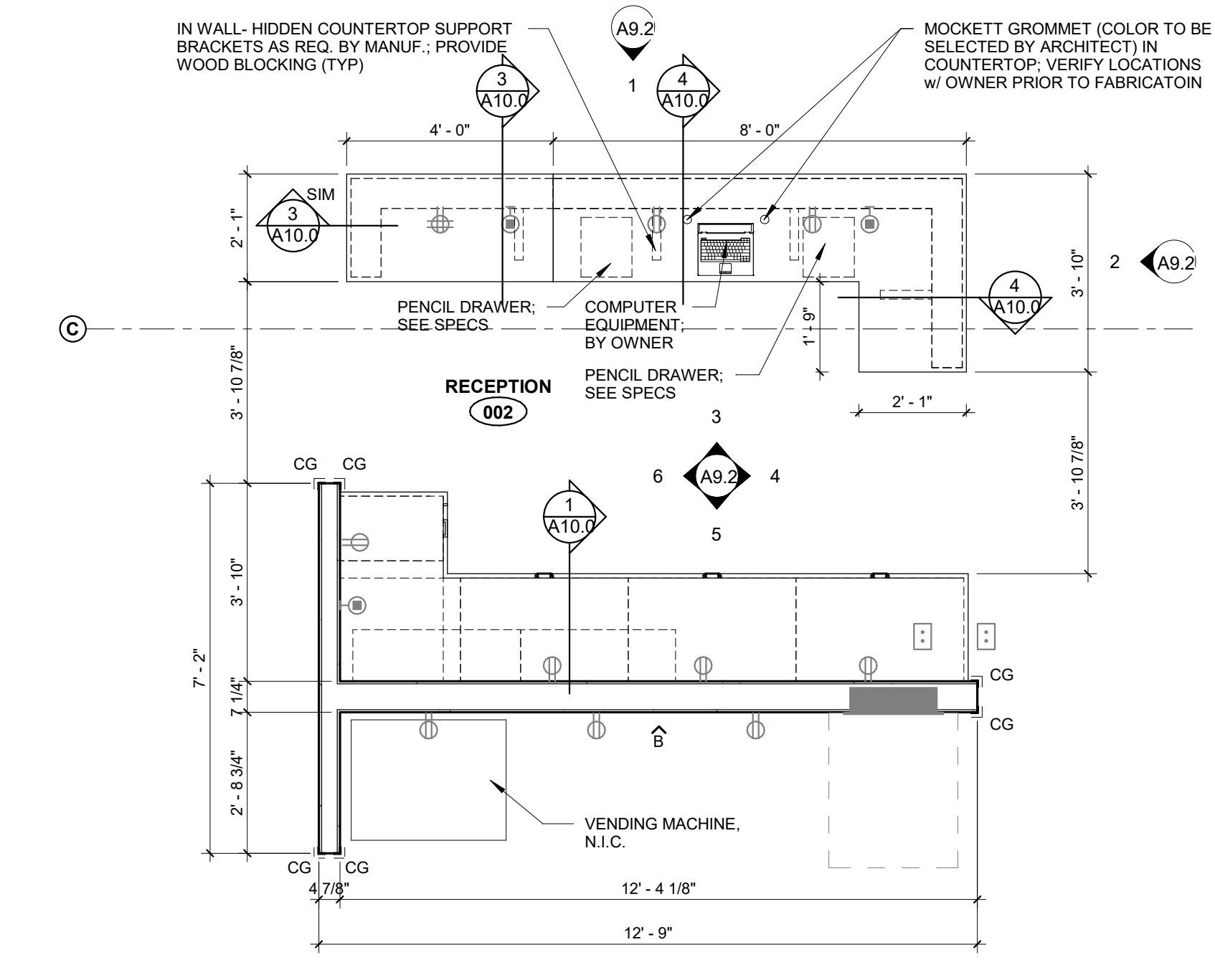
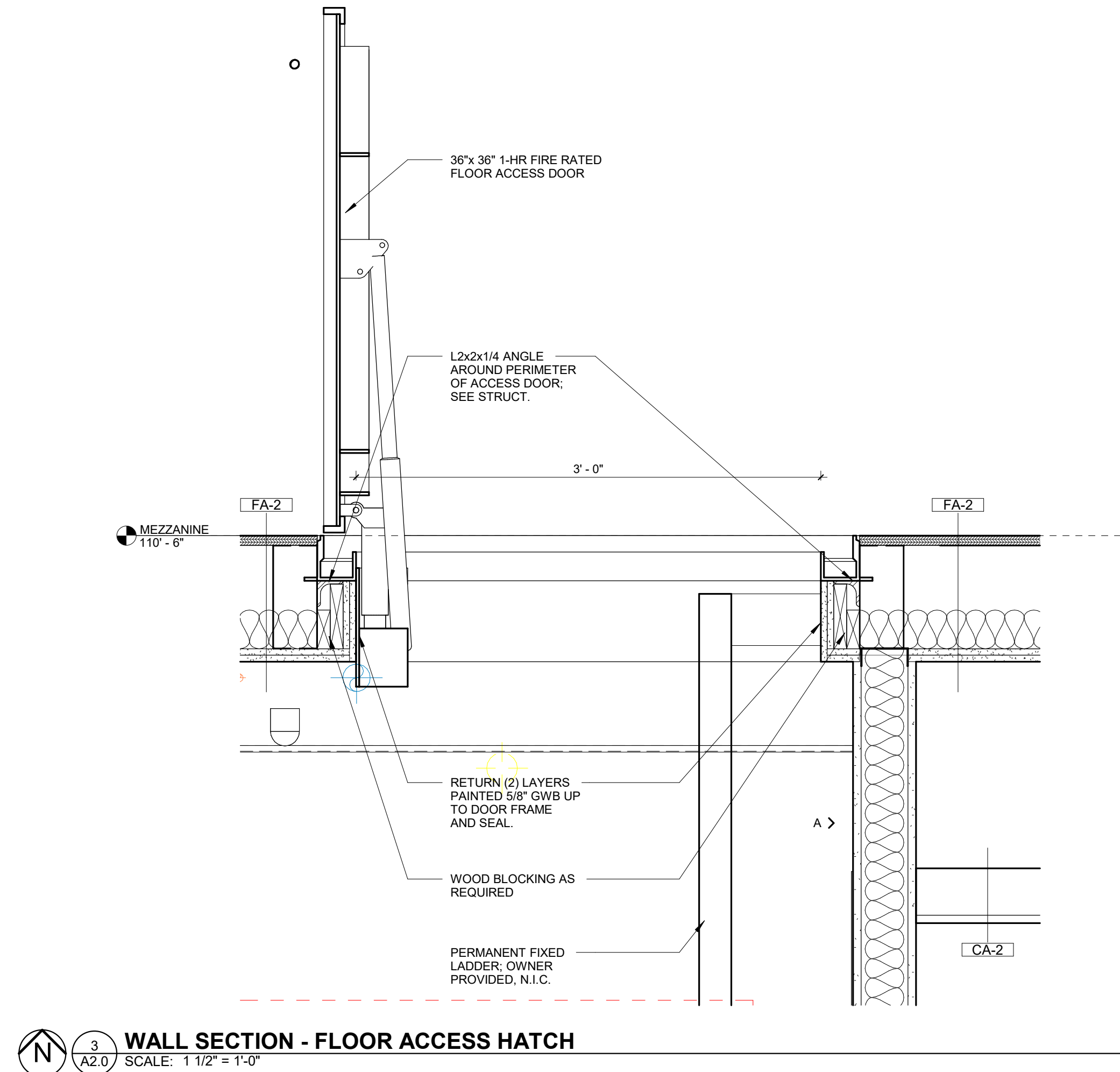
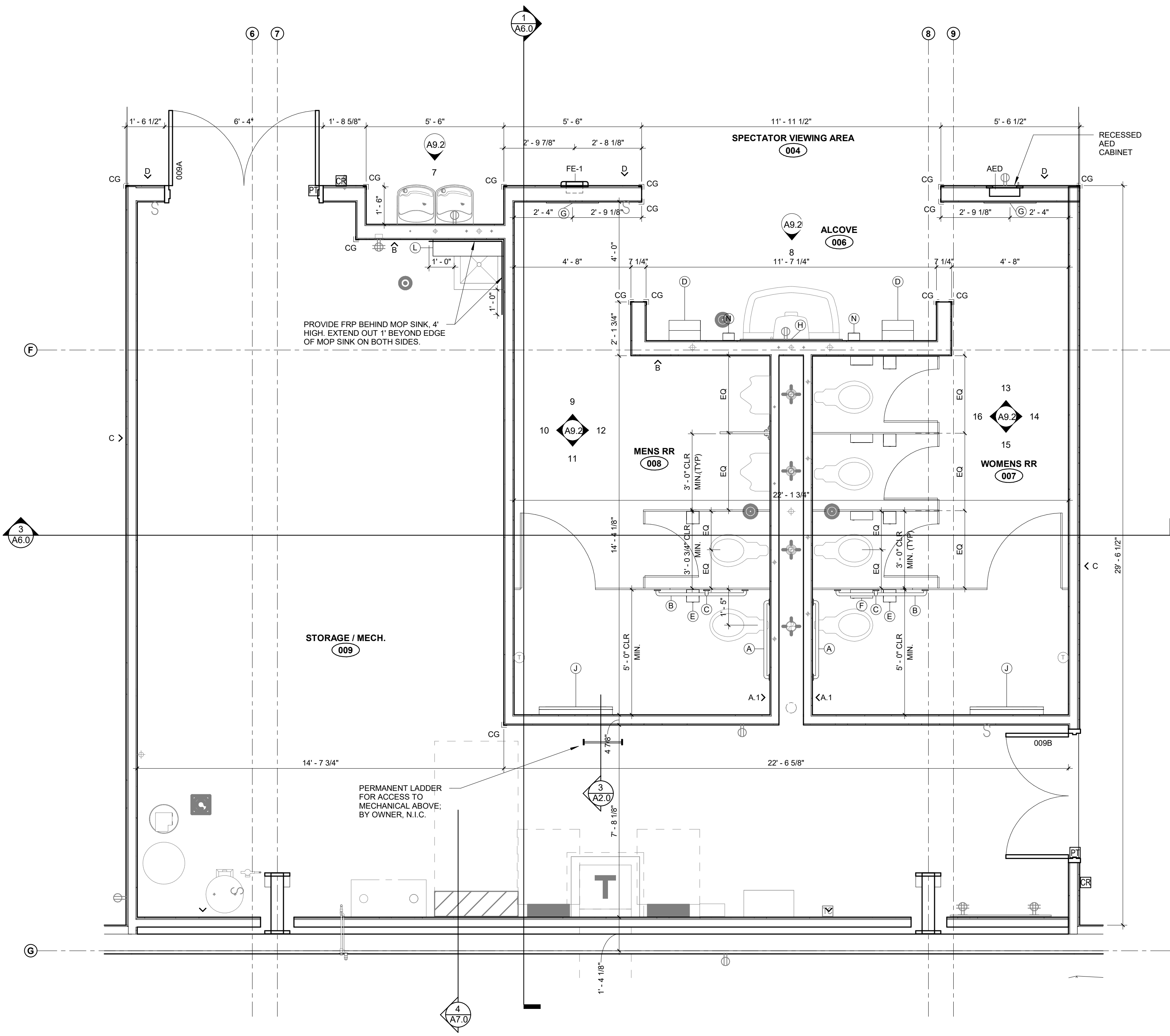
Mezzanine Plan

Project Number: 2261  
Date: January 10, 2023  
Copyright © 2023  
WILKINS Architecture | Design | Planning LLC.

Sheet Number:  
**A1.1**



KEY NOTE	TYPE	MANUFACTURER	MODEL	COMMENTS
	Standard			
A	30" GRAB BAR	BOBRICK	B-4806-36	CONTRACTOR PROVIDED AND INSTALLED
B	42" GRAB BAR	BOBRICK	B-4806-42	CONTRACTOR PROVIDED AND INSTALLED
C	18" GRAB BAR	BOBRICK	B-4806-18	CONTRACTOR PROVIDED AND INSTALLED
D	PAPER TOWEL DISPENSER	GEORGIA PACIFIC	59462	OWNER PROVIDED AND INSTALLED; CONTRACTOR TO PROVIDE BLOCKING AS REQUIRED; VERIFY PLACEMENT w/ OWNER
E	TOILET TISSUE DISPENSER	BOBRICK	B-2888	OWNER PROVIDED AND INSTALLED; CONTRACTOR TO PROVIDE BLOCKING AS REQUIRED; VERIFY PLACEMENT w/ OWNER
F	SANITARY NAPKIN DISPOSAL	BOBRICK	B-254	OWNER PROVIDED AND INSTALLED; CONTRACTOR TO PROVIDE BLOCKING AS REQUIRED; VERIFY PLACEMENT w/ OWNER
G	24" x 60" FRAMED MIRROR	BOBRICK	B-165-2460	CONTRACTOR PROVIDED AND INSTALLED
H	48" x 36" FRAMED MIRROR	BOBRICK	B-165-4836	CONTRACTOR PROVIDED AND INSTALLED
J	BABY CHANGING TABLE	BOBRICK	KB200-555S	OWNER PROVIDED AND INSTALLED; CONTRACTOR TO PROVIDE BLOCKING AS REQUIRED; VERIFY PLACEMENT w/ OWNER
K	VENDING MACHINE			OWNER PROVIDED AND INSTALLED
L	UTILITY SHELF w/ HOOKS	BOBRICK	B-339	CONTRACTOR PROVIDED AND INSTALLED
N	SOAP DISPENSER	BOBRICK	B18615	OWNER PROVIDED AND INSTALLED



**CITY OF LEXINGTON  
LEXINGTON RACQUET CENTER  
Lexington, NE**

Revision/Issue	Date

Enlarged Floor Plans

Project Number: 2261  
Date: January 10, 2023

Copyright © 2023  
WILKINS Architecture | Design | Planning | L.L.C.

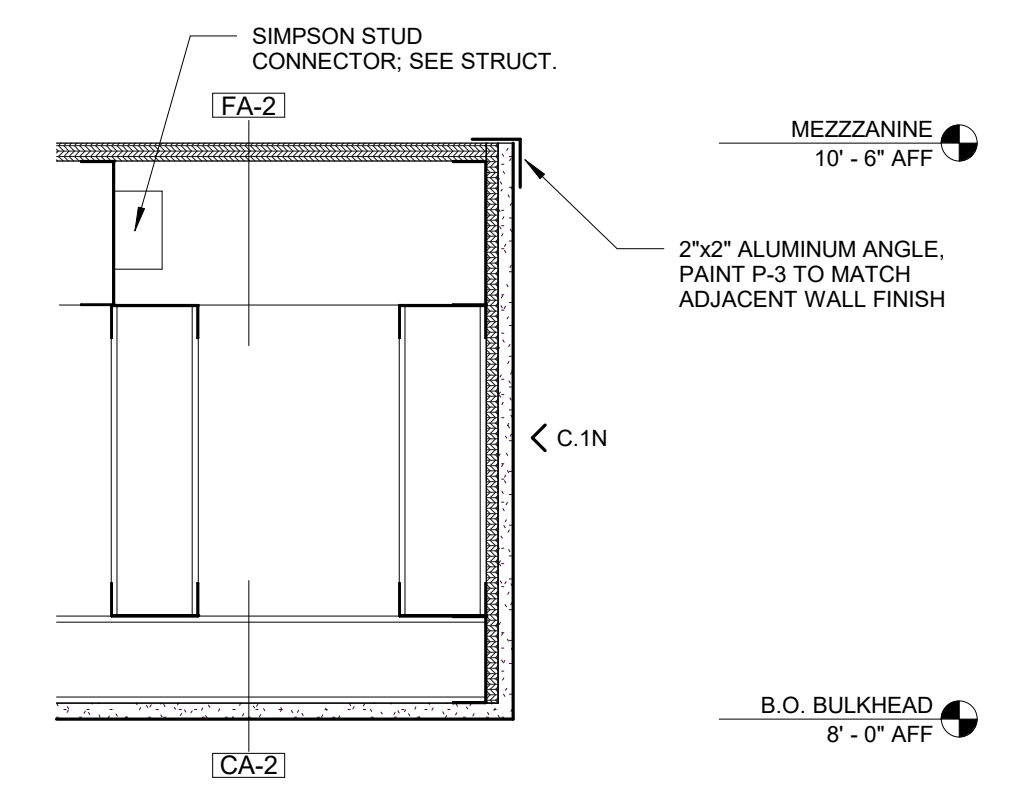
Sheet Number:

**A2.0**

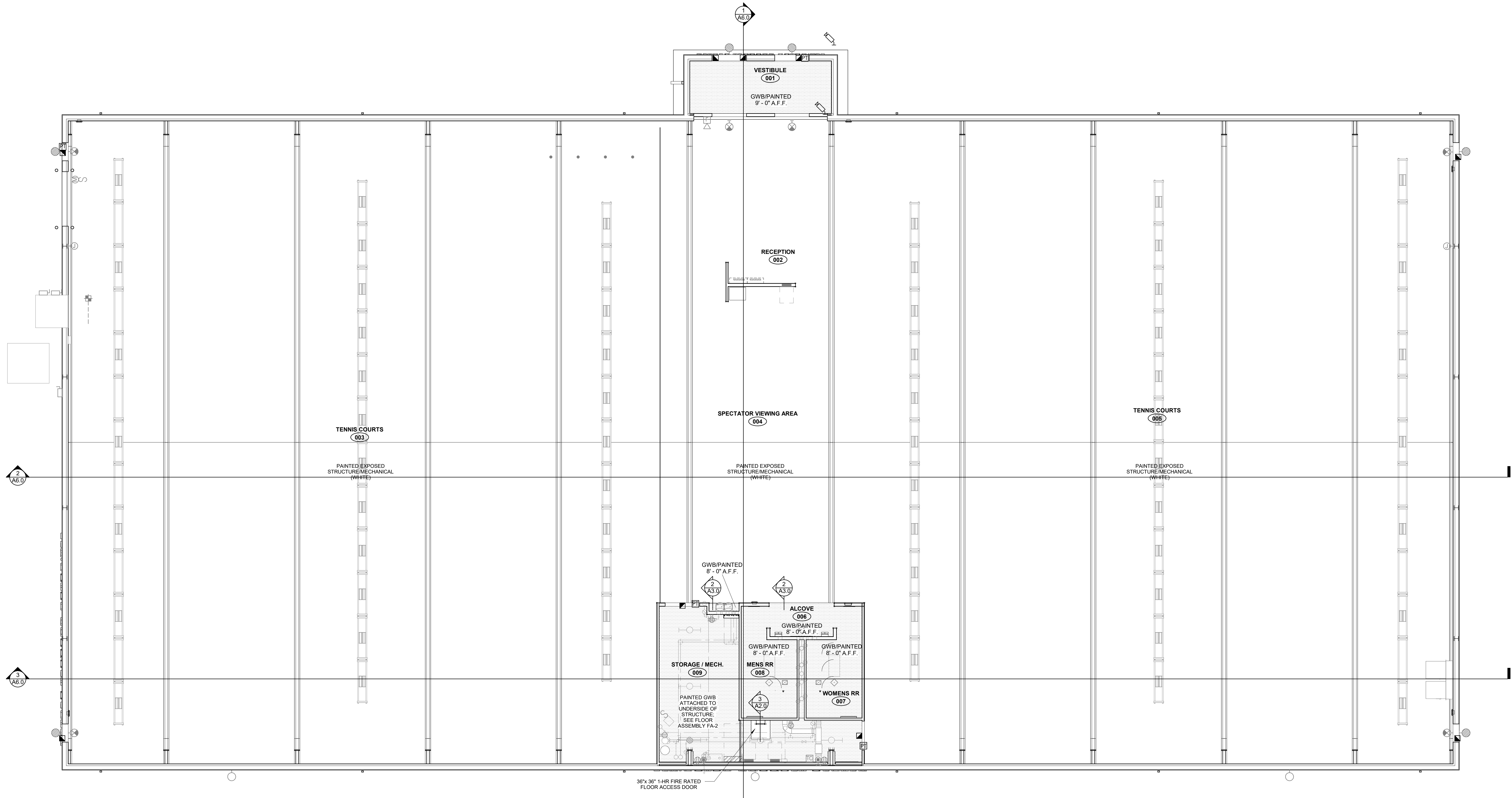


**REFLECTED CEILING NOTES**

1. A.F.F. = ABOVE FINISHED FLOOR.
2. G.W.B. = GYPSUM WALLBOARD.
3. ACP = ACOUSTICAL CEILING PANEL.
4. ALL VERTICAL AND HORIZONTAL BULKHEAD SURFACES TO BE PAINTED TO MATCH ADJACENT WALLS UNLESS NOTED OTHERWISE.
5. ALL BULKHEADS TO BE PAINTED G.W.B. (P-1) WITH LEVEL 4 "SMOOTH" FINISH (SEE DETAILS AND INTERIOR ELEVATIONS).
6. ALL ACP CEILINGS TO BE SUSPENDED "ACP-1" UNLESS NOTED OTHERWISE.
7. ALL DIMENSIONS ON REFLECTED CEILING PLANS ARE TO FACE OF G.W.B.
8. MECHANICAL AND ELECTRICAL FIXTURE SHOWN FOR COORDINATION ONLY. SEE MECHANICAL AND ELECTRICAL DRAWINGS. ANY CONFLICTS TO BE VERIFIED WITH ARCHITECT PRIOR TO INSTALLATION.



**2 CEILING DETAIL**  
 SCALE: 1 1/2" = 1'-0"



**1 REFLECTED CEILING PLAN - GROUND FLOOR**  
 SCALE: 1/8" = 1'-0"

CITY OF LEXINGTON  
 LEXINGTON RACQUET CENTER  
 Lexington, NE

Revision/Issue	Date

Reflected Ceiling Plan

Project Number: 2261  
 Date: January 10, 2023

Copyright © 2023  
 WILKINS Architecture | Design | Planning L.L.C.

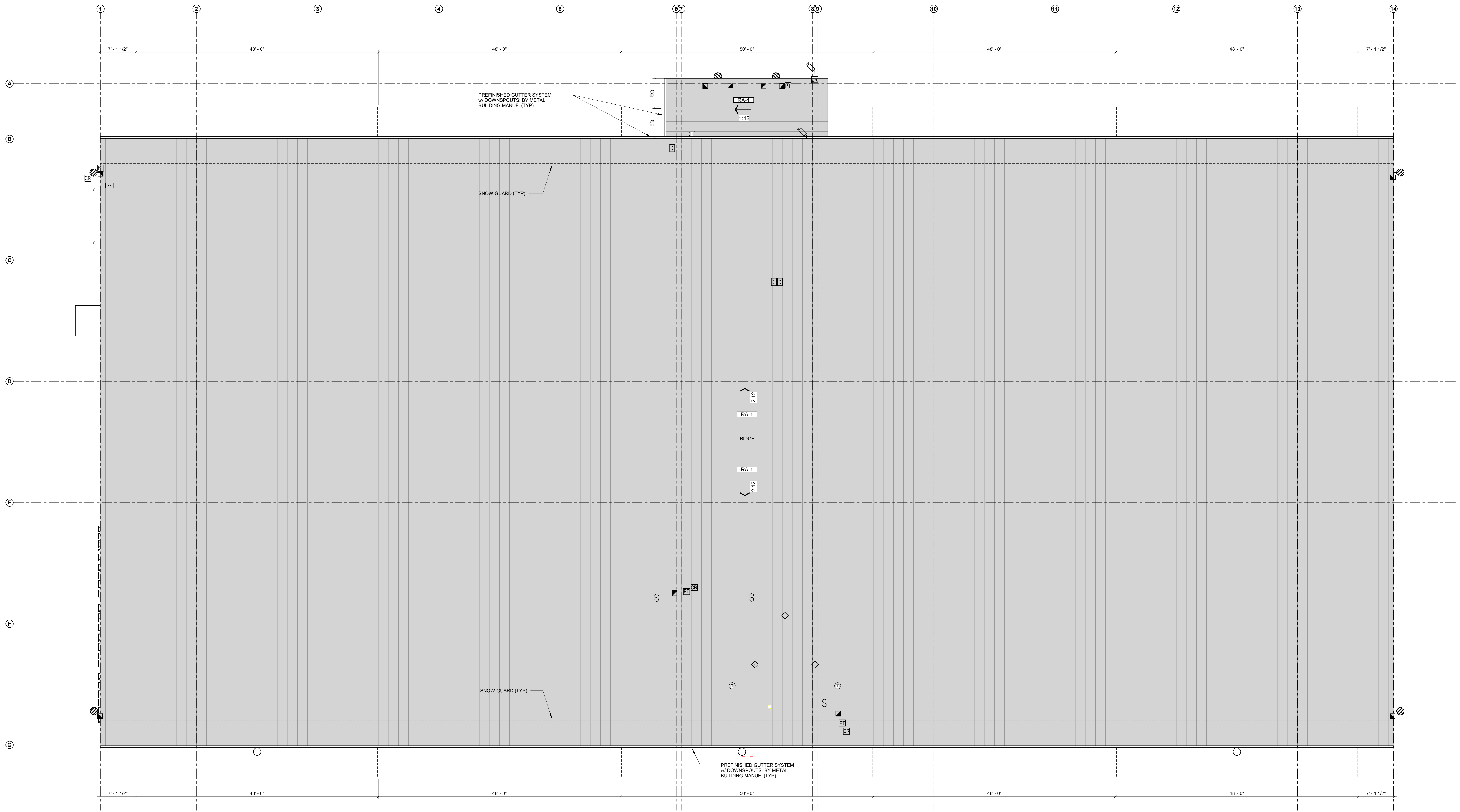
Sheet Number:

**A3.0**



**ROOF GENERAL NOTES**

1. REFERENCE ALL ROOF ASSEMBLIES AND ALL WALL SECTIONS FOR ROOFING DETAILS NOT REFERENCED ON THIS PLAN.
2. REFER TO MECHANICAL AND ELECTRICAL DRAWINGS FOR ADDITIONAL PENETRATIONS NOT INDICATED ON THE ROOF PLAN.
3. ARROWS ON THE PLAN INDICATE DIRECTION OF DRAINAGE. CONTRACTOR TO FIELD VERIFY ALL DIMENSIONS OF BUILDING AND DRAIN LOCATIONS AND OTHER PENETRATIONS.
4. SEE STRUCTURAL DRAWINGS FOR FRAMING AROUND ROOF PENETRATIONS.
5. FLASH ALL DRAINS, CURBS, VENTS AND STACKS PER ROOF MANUFACTURER'S STANDARD DETAILS AND RECOMMENDATIONS. IF DETAIL NOT SHOWN ON PLANS.
6. PROVIDE ONE (1) LAYER 30# BUILDING FELT SEPARATION BETWEEN ANY TREATED WOOD BLOCKING AND STEEL OR ALUMINUM BUILDING COMPONENTS.
7. ALL ROOF CURBS TO BE A MINIMUM OF 8" ABOVE ROOFING LEVELS. PROVIDED TAPERED INSULATION ROOF SADDLES AT ROOF CURBS AS REQUIRED TO PROVIDE DRAINAGE AROUND CURBS. AT MECH. UNITS EXTEND ROOFING UP AND ON TOP OF MECH. ROOF CURB. SEE MECH.
8. PAINT ALL ROOF MOUNTED EXPOSED MECHANICAL HOODS AND NEW EQUIPMENT, U.N.O.



**FLOOR PLAN - GROUND FLOOR**  
 SCALE: 1/8" = 1'-0"

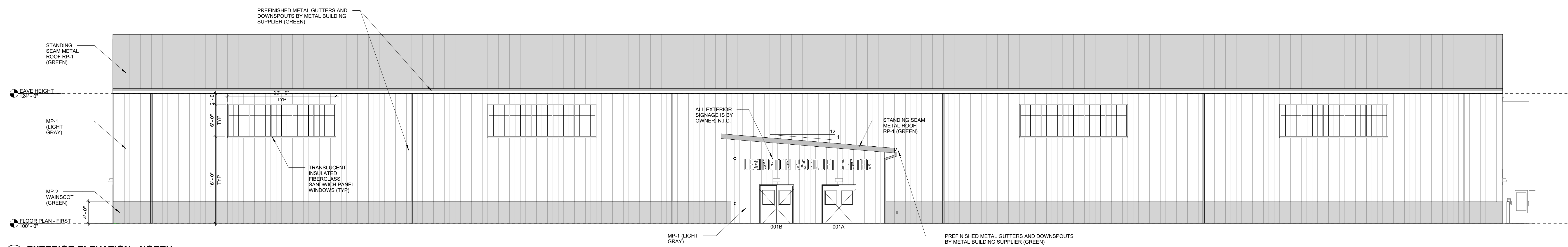
**CITY OF LEXINGTON  
 LEXINGTON RACQUET CENTER  
 Lexington, NE**

Revision/Issue	Date

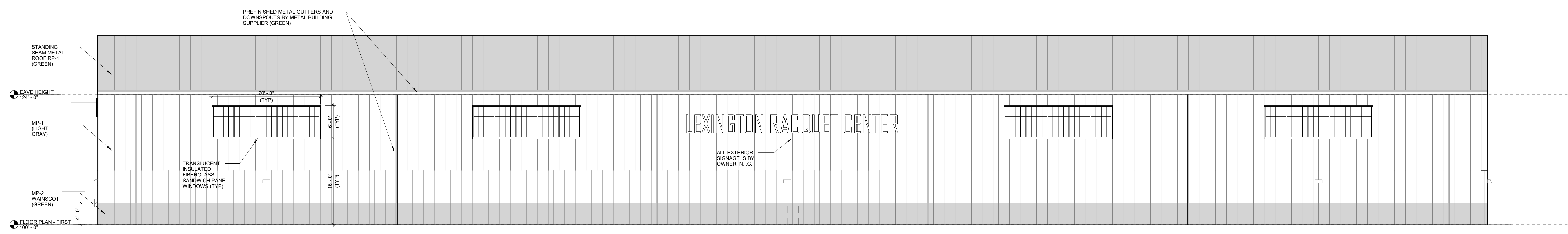
Roof Plan

Project Number: 2261  
 Date: January 10, 2023  
 Copyright © 2023  
 WILKINS Architecture | Design | Planning LLC.

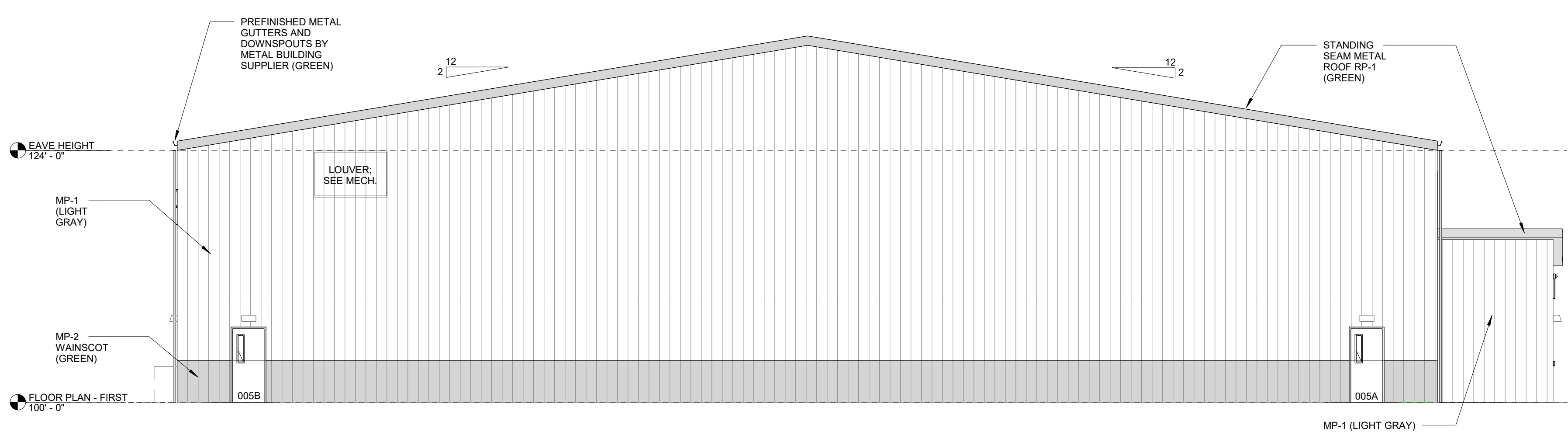
Sheet Number:  
**A4.0**



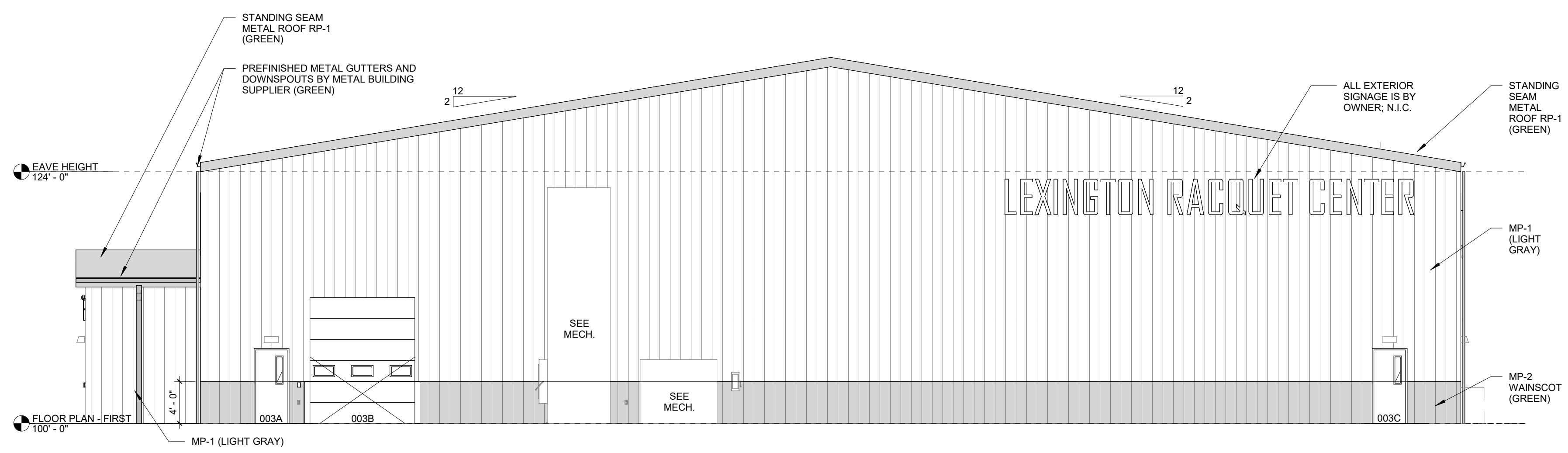
**1 EXTERIOR ELEVATION - NORTH**  
 SCALE: 1/8" = 1'-0"



**2 EXTERIOR ELEVATION - SOUTH**  
 SCALE: 1/8" = 1'-0"



**3 EXTERIOR ELEVATION - EAST**  
 SCALE: 1/8" = 1'-0"



**4 EXTERIOR ELEVATION - WEST**  
 SCALE: 1/8" = 1'-0"

**CITY OF LEXINGTON  
 LEXINGTON RACQUET CENTER  
 Lexington, NE**

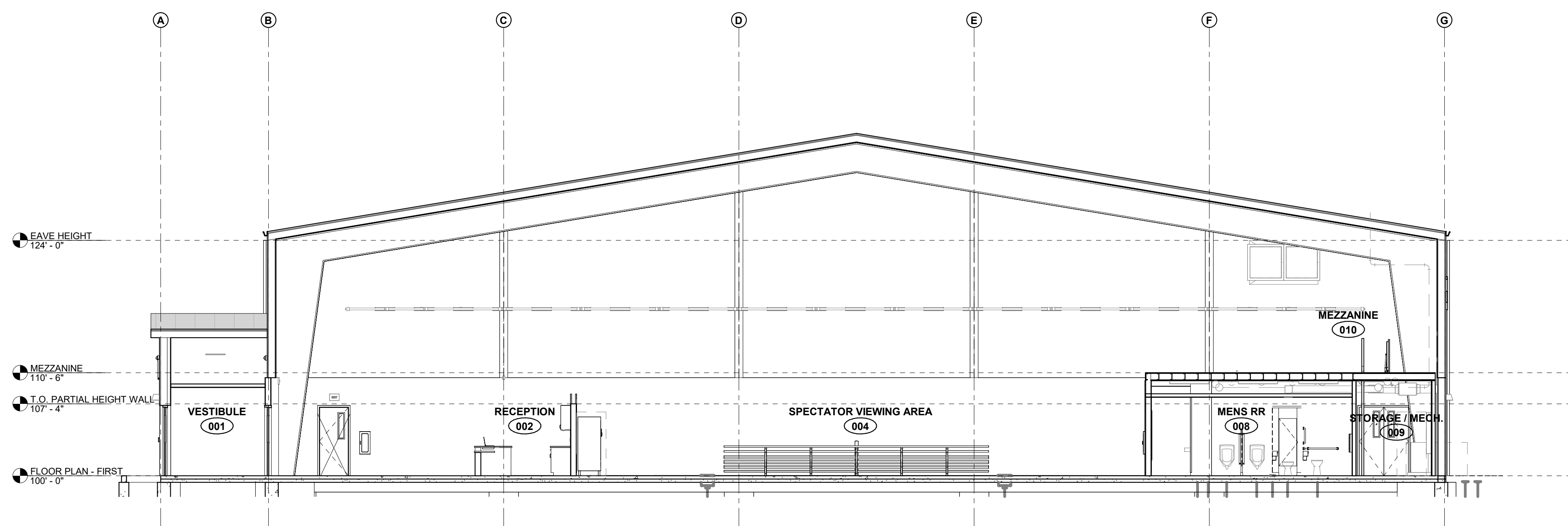
Revision/Issue	Date

Exterior Elevations

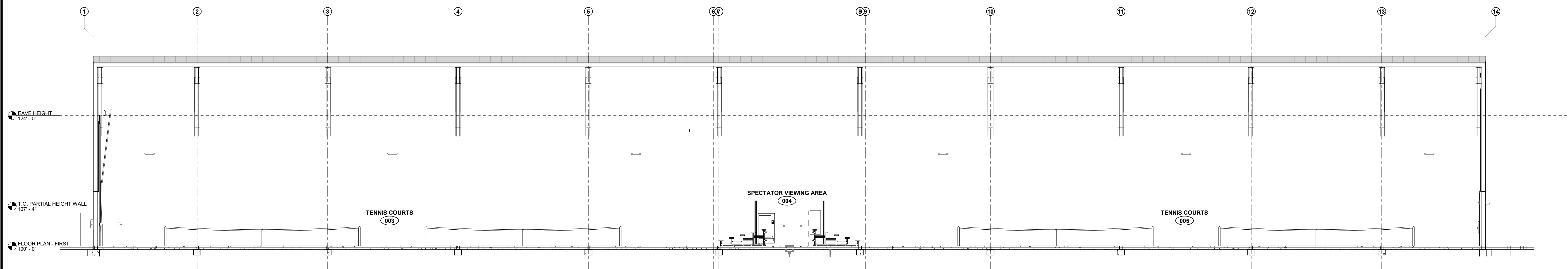
Project Number: 2261  
 Date: January 10, 2023

Copyright © 2023  
 WILKINS Architecture | Design | Planning L.L.C.

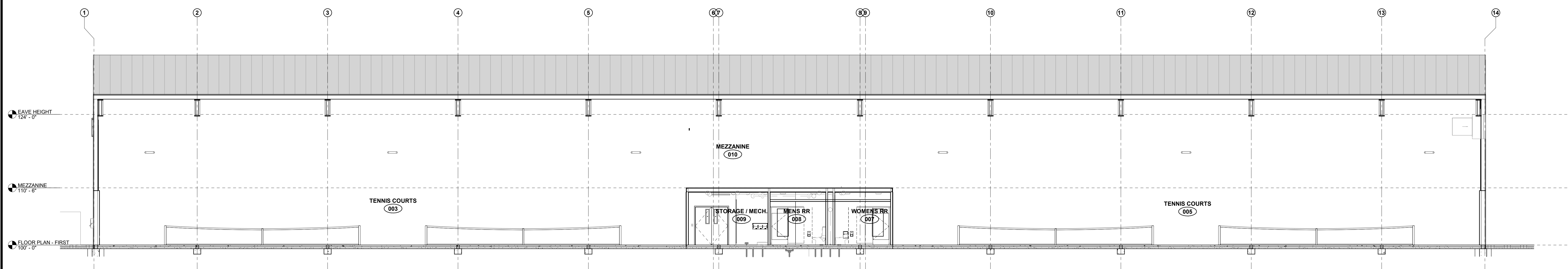
Sheet Number:  
**A5.0**



**1 BUILDING SECTION - NORTH-SOUTH**  
 SCALE: 1/8" = 1'-0"



**2 BUILDING SECTION - EAST-WEST 1**  
 SCALE: 1/8" = 1'-0"



**3 BUILDING SECTION - EAST-WEST 2**  
 SCALE: 1/8" = 1'-0"

**CITY OF LEXINGTON  
 LEXINGTON RACQUET CENTER  
 Lexington, NE**

Revision/Issue	Date

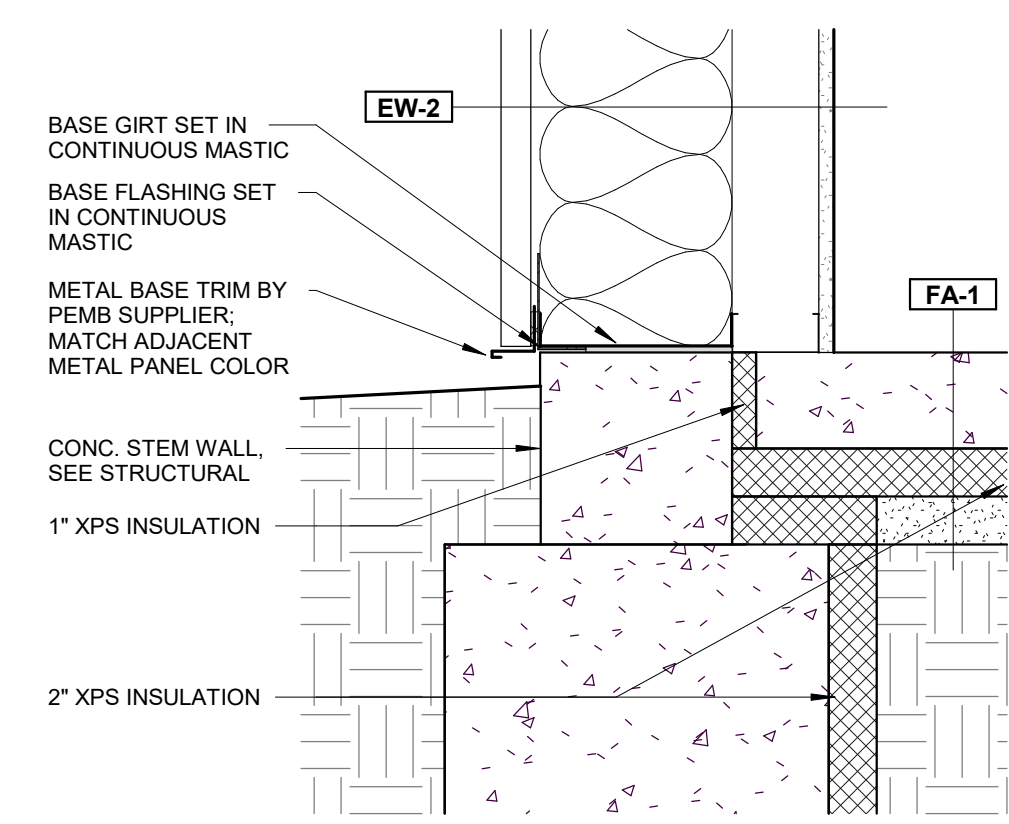
Building Sections

Project Number: 2261  
 Date: January 10, 2023

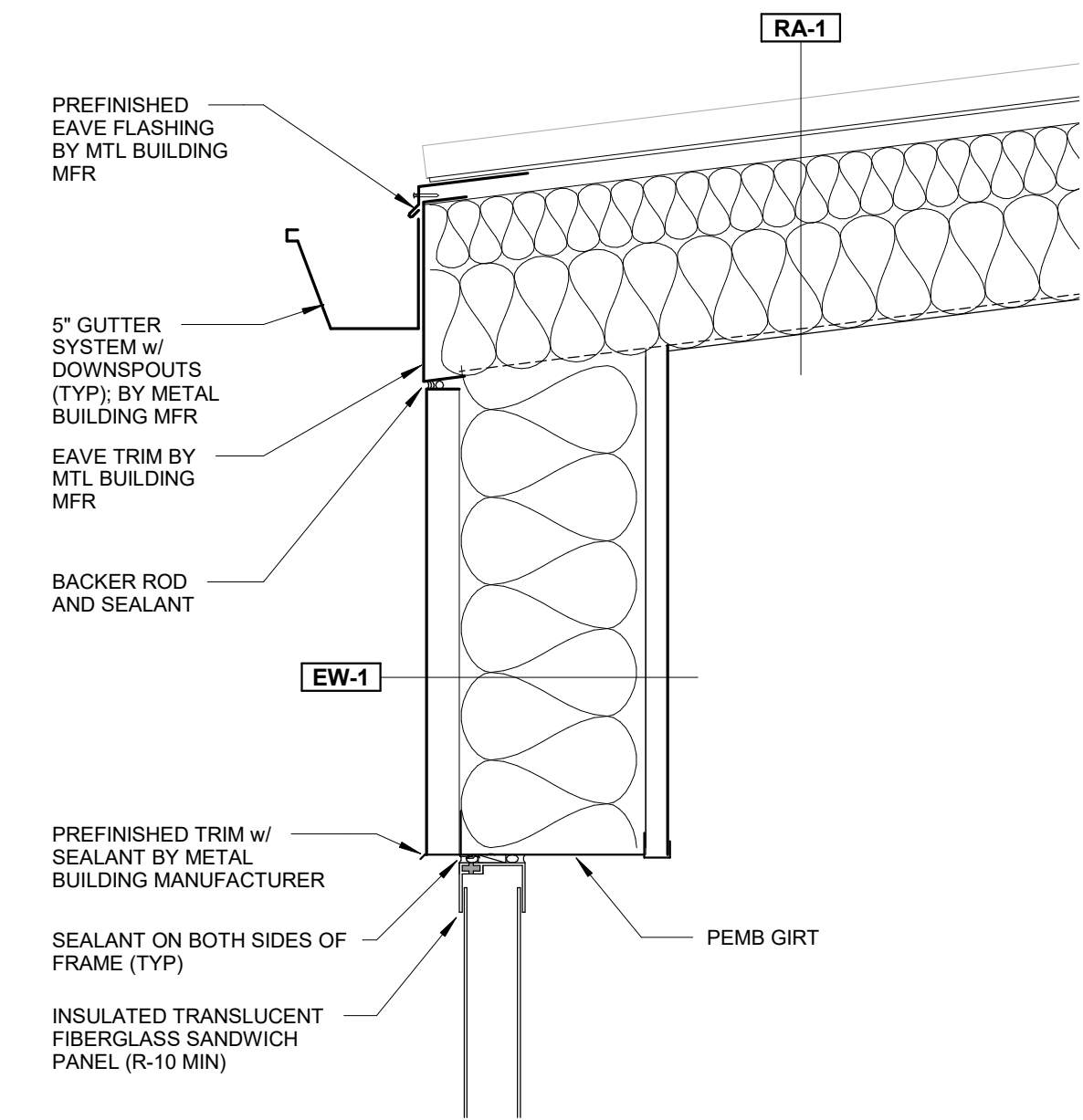
Copyright © 2023  
 WILKINS Architecture | Design | Planning L.L.C.

Sheet Number:

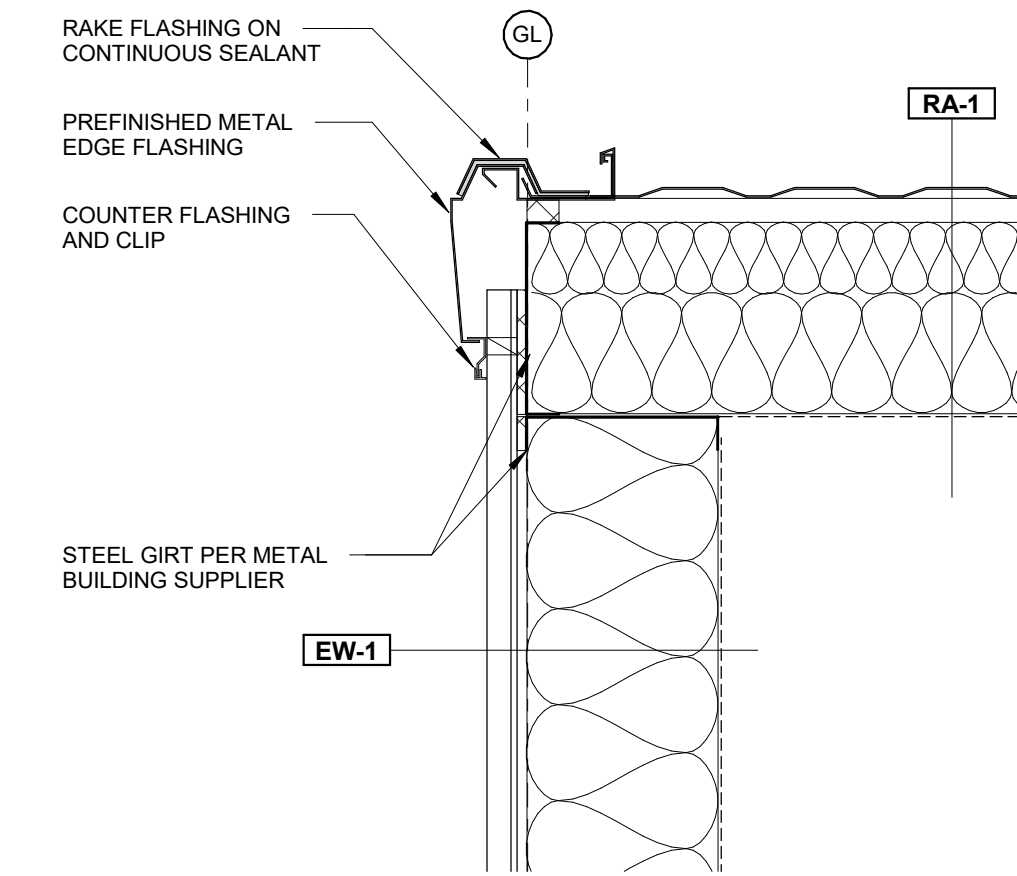
**A6.0**



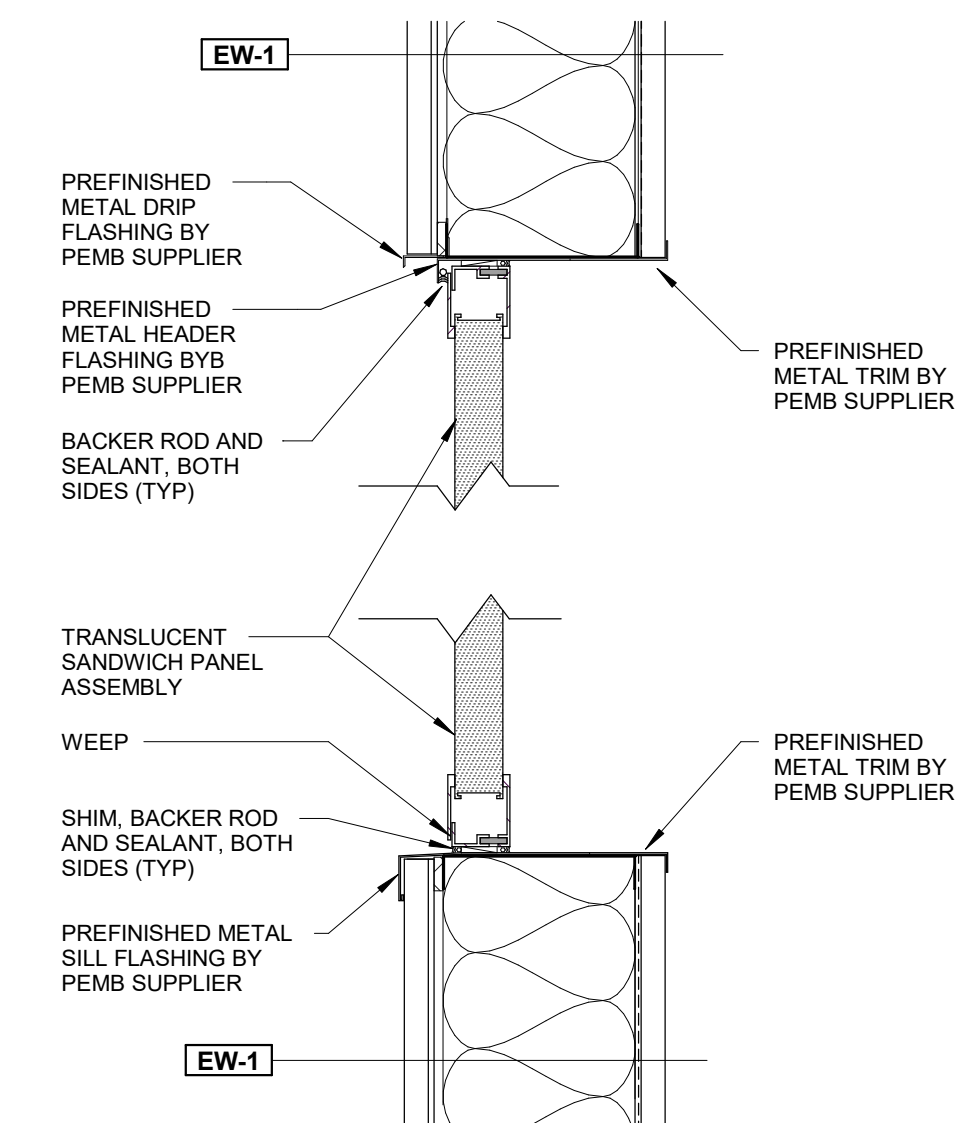
**5 FOUNDATION DETAIL - EW-1**  
SCALE: 1 1/2" = 1'-0"



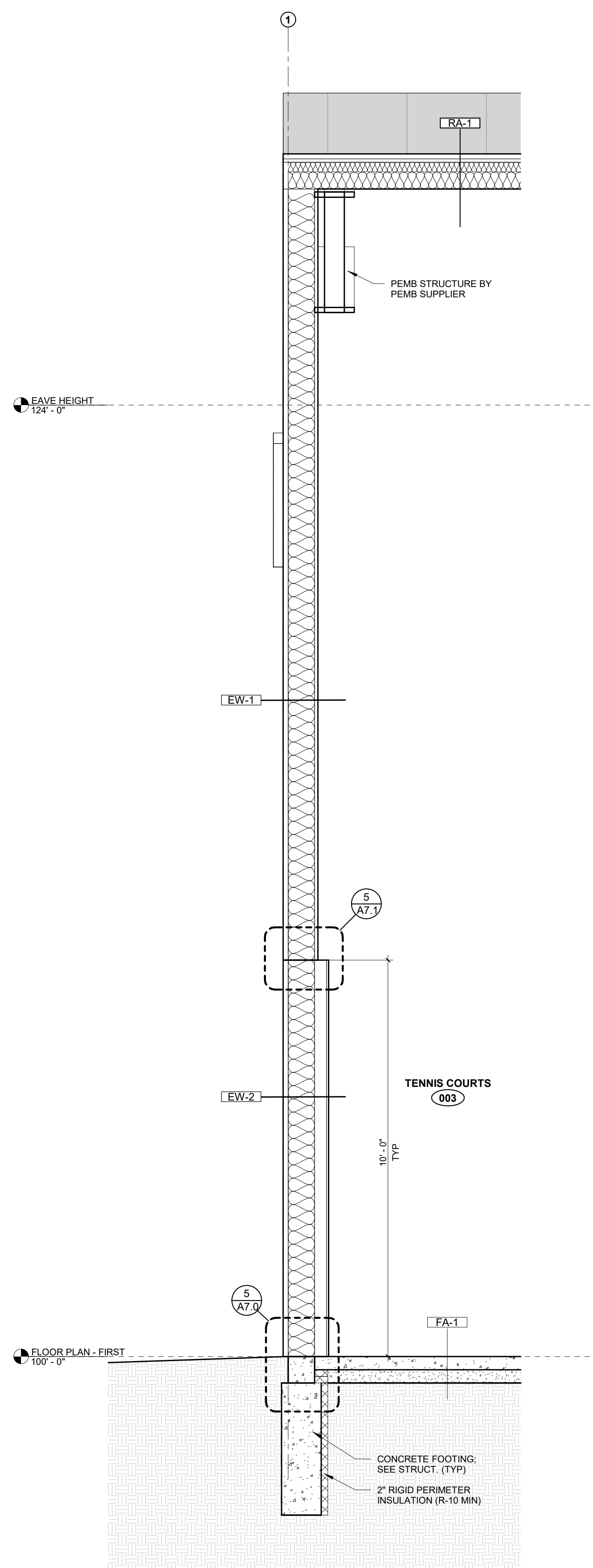
**6 SECTION DETAIL - EAVE (TYP)**  
SCALE: 1 1/2" = 1'-0"



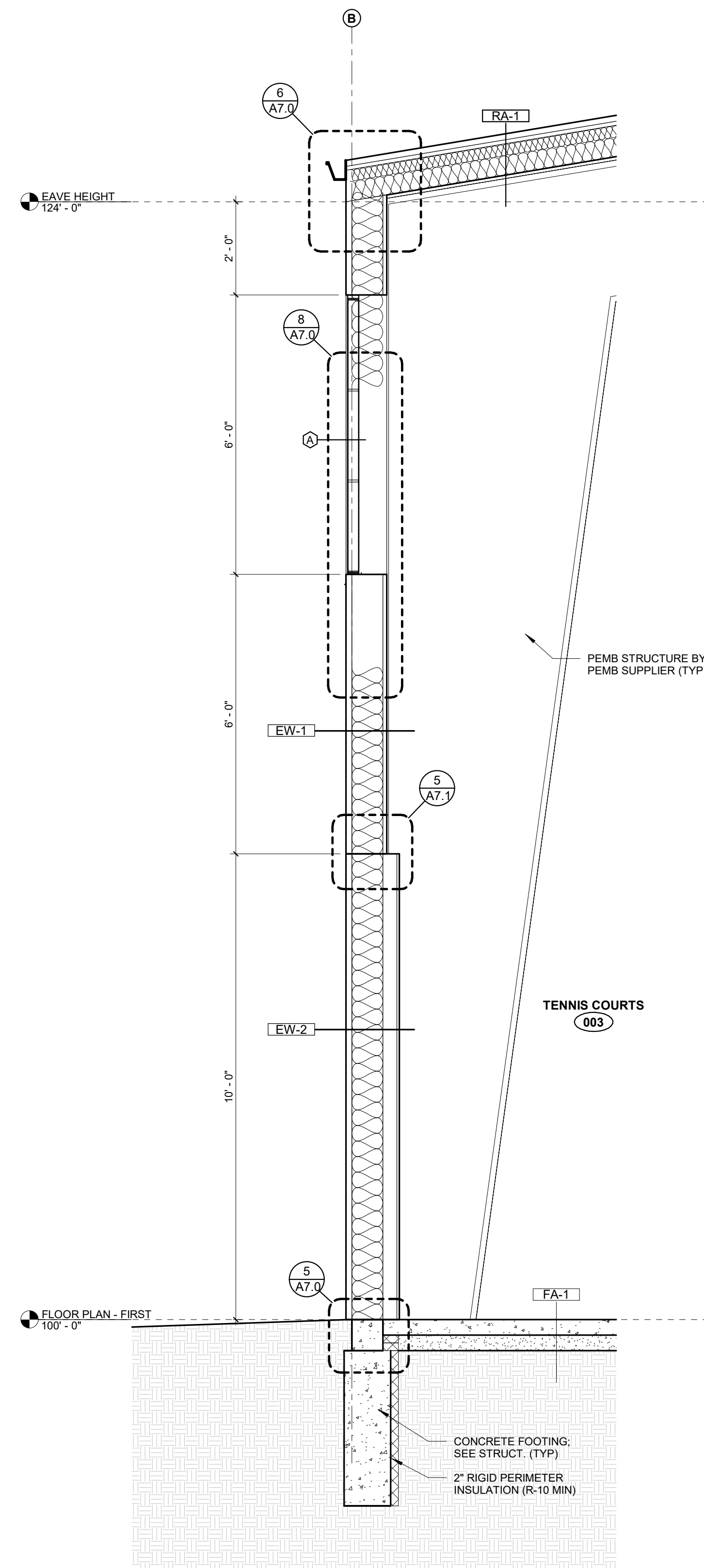
**7 SECTION DETAIL - RAKE EDGE (TYP)**  
SCALE: 1 1/2" = 1'-0"



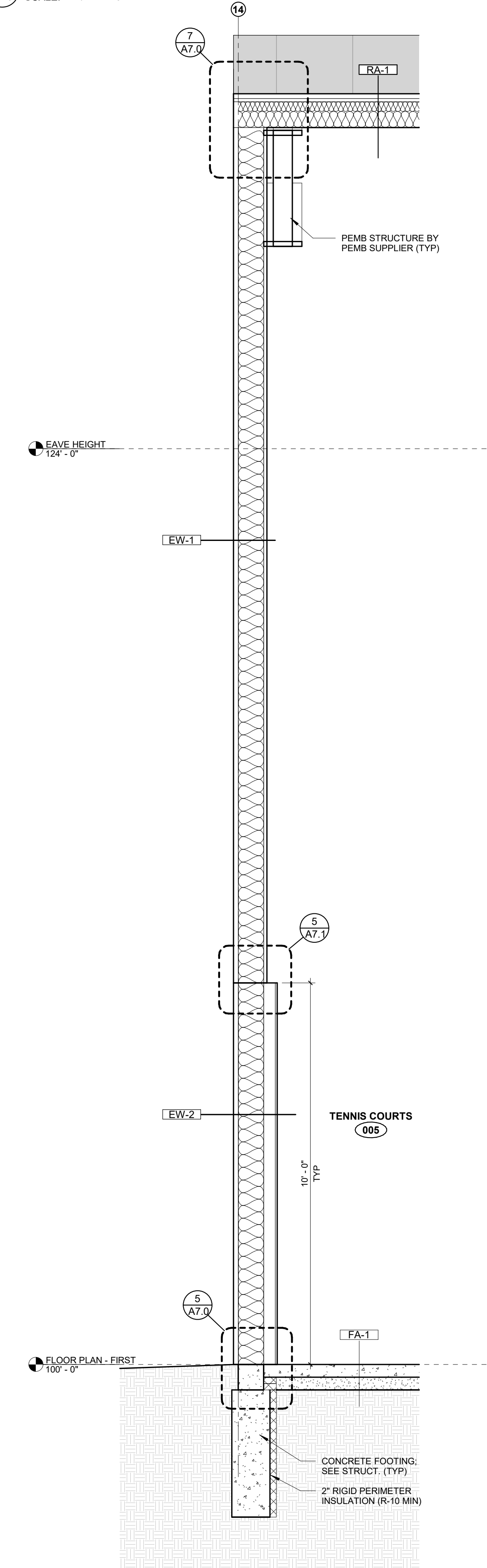
**8 SECTION DETAIL - KALWALL (TYP)**  
SCALE: 1 1/2" = 1'-0"



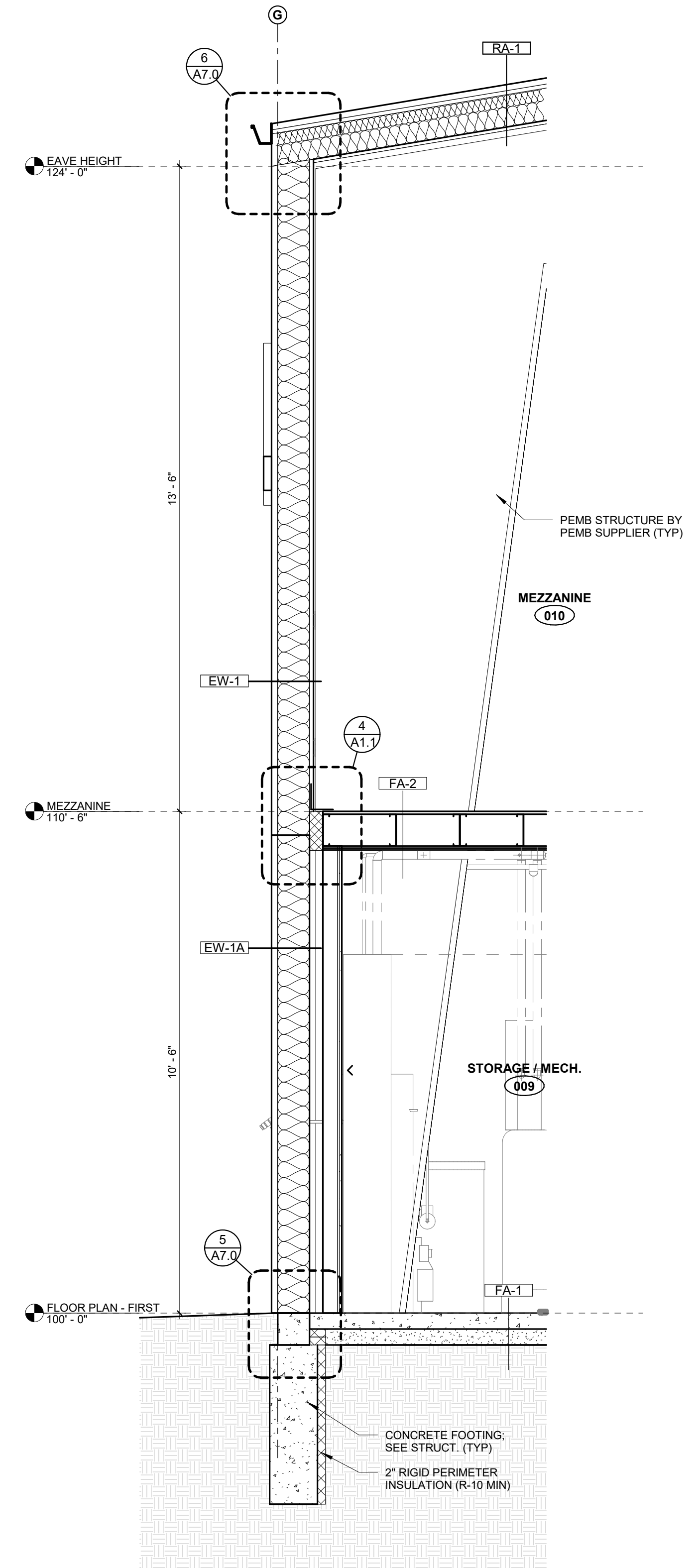
**1 WALL SECTION - WEST (TYP)**  
SCALE: 1/2" = 1'-0"



**2 WALL SECTION - NORTH (TYP)**  
SCALE: 1/2" = 1'-0"



**3 WALL SECTION - EAST (TYP)**  
SCALE: 1/2" = 1'-0"



**4 WALL SECTION - SOUTH (TYP)**  
SCALE: 1/2" = 1'-0"

**CITY OF LEXINGTON  
LEXINGTON RACQUET CENTER  
Lexington, NE**

Revision/Issue	Date

Wall Sections

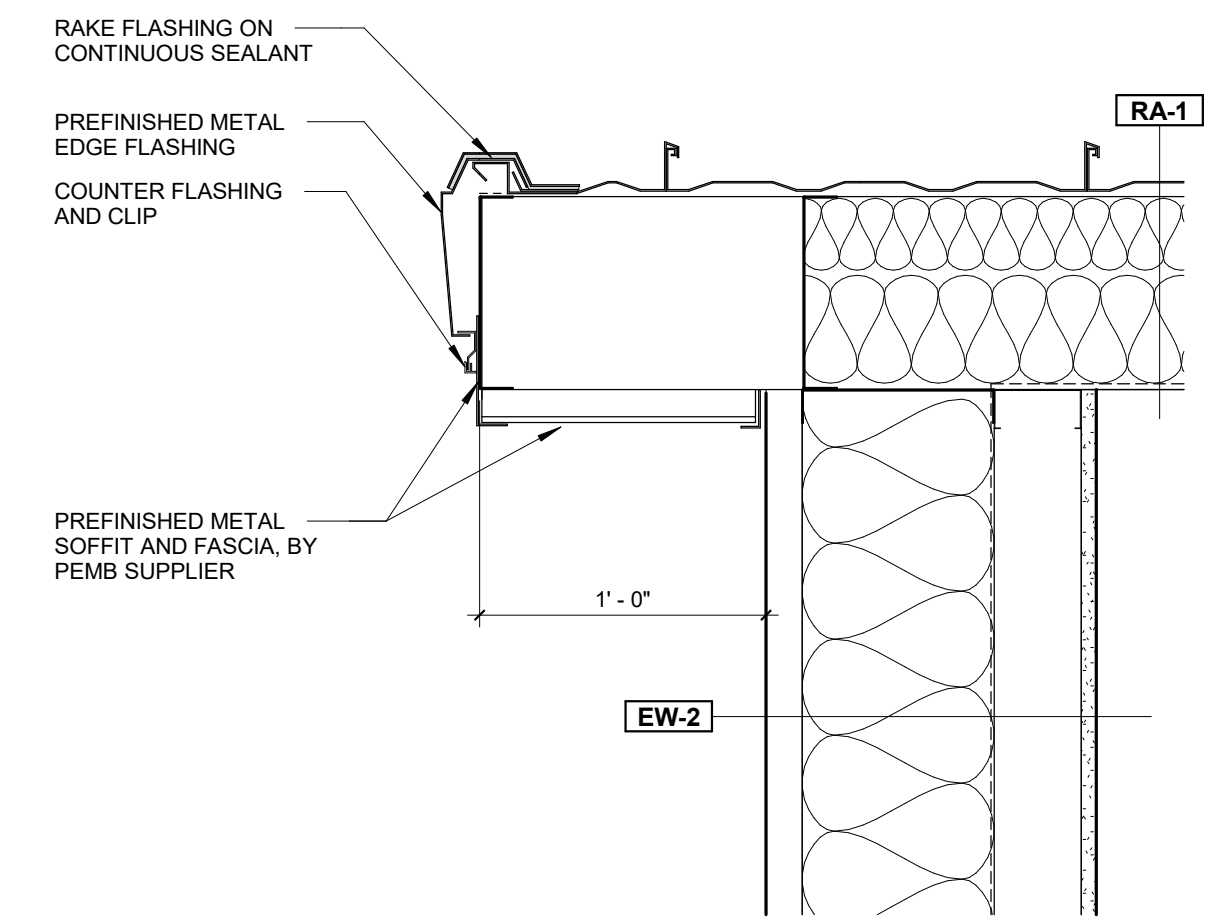
Project Number: 2261  
Date: January 10, 2023

Copyright © 2023  
WILKINS Architecture | Design | Planning L.L.C.

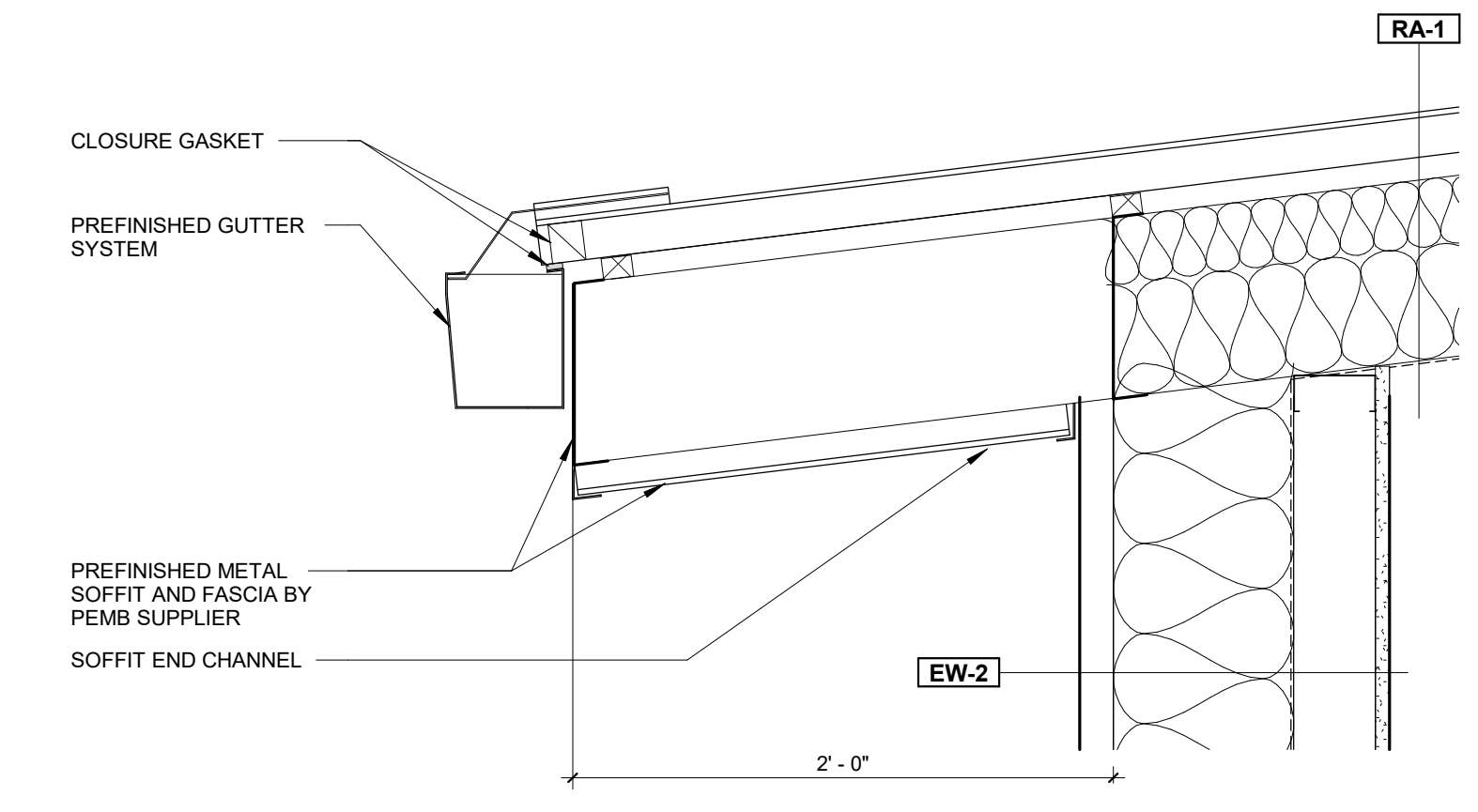
Sheet Number:

**A7.0**

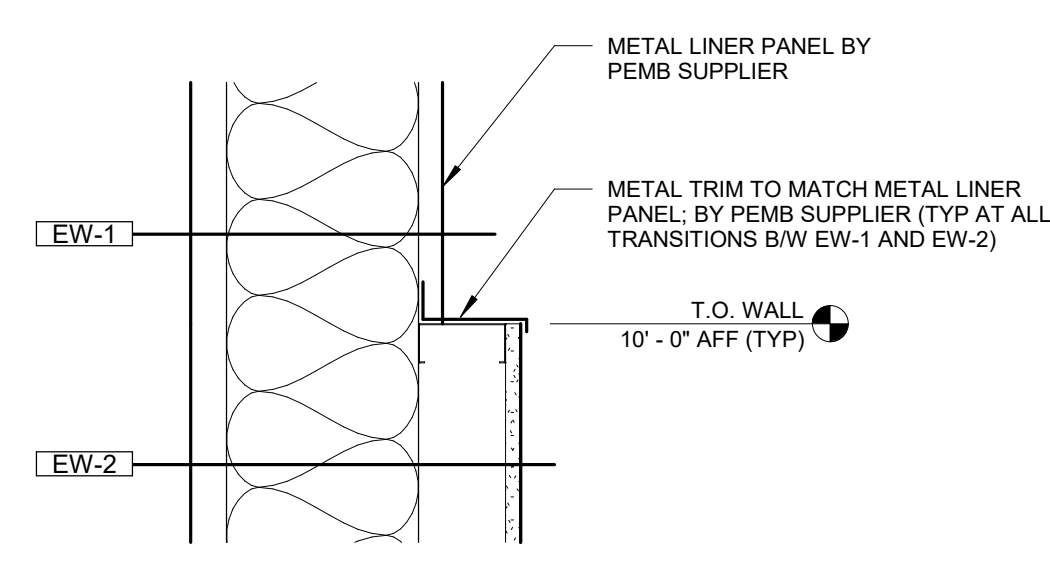




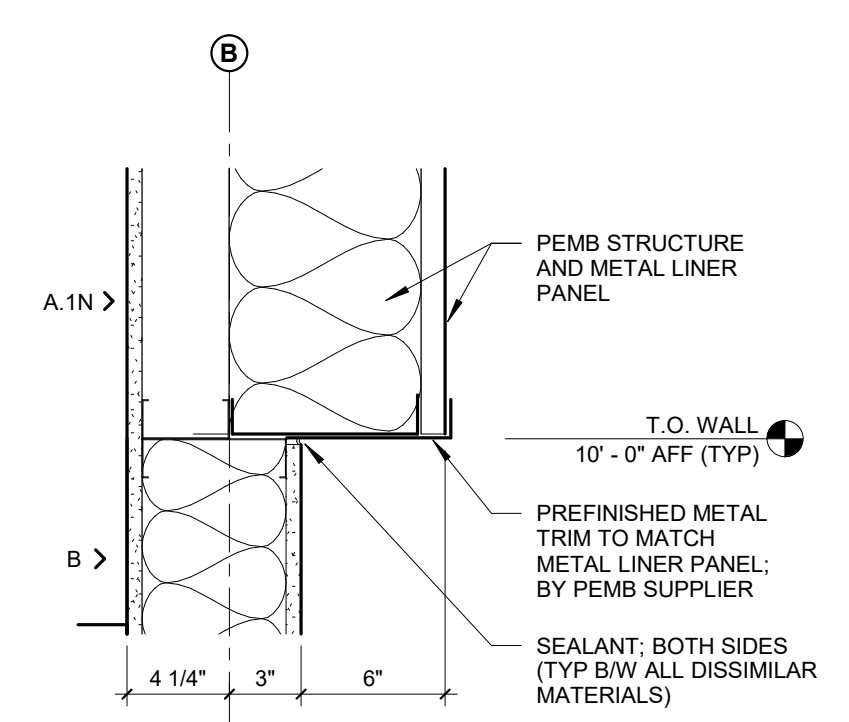
3 SECTION DETAIL - RAKE WITH OVERHANG  
 SCALE: 1/2" = 1'-0"



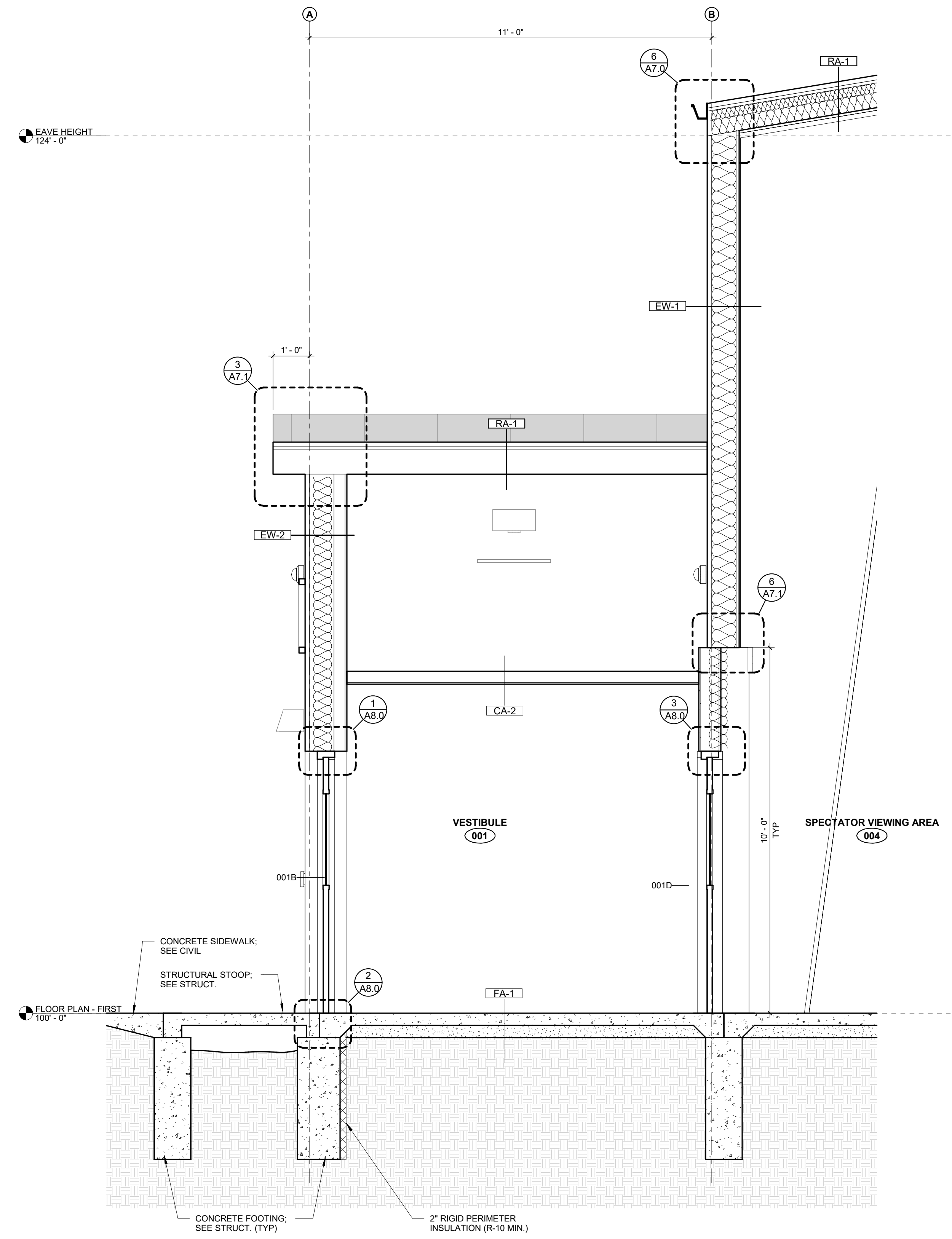
4 SECTION DETAIL - EAVE WITH OVERHANG  
 SCALE: 1/2" = 1'-0"



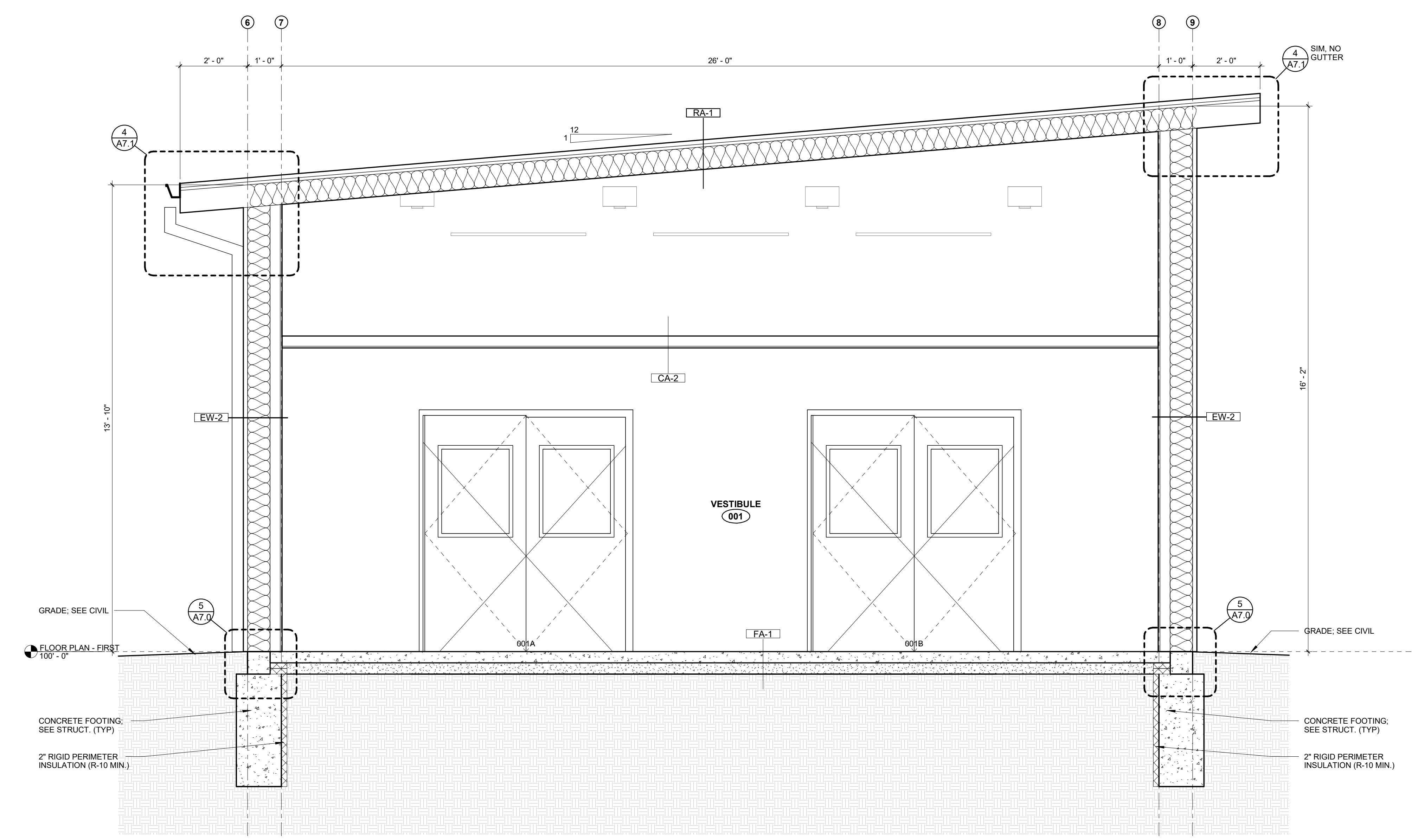
5 EW-1 TO EW-2 TRANSITION (TYP)  
 SCALE: 1/2" = 1'-0"



6 INTERIOR VESTIBULE WALL TRANSITION  
 SCALE: 1/2" = 1'-0"



1 WALL SECTION - NORTH - VESTIBULE 001  
 SCALE: 1/2" = 1'-0"



2 WALL SECTION - VESTIBULE  
 SCALE: 1/2" = 1'-0"

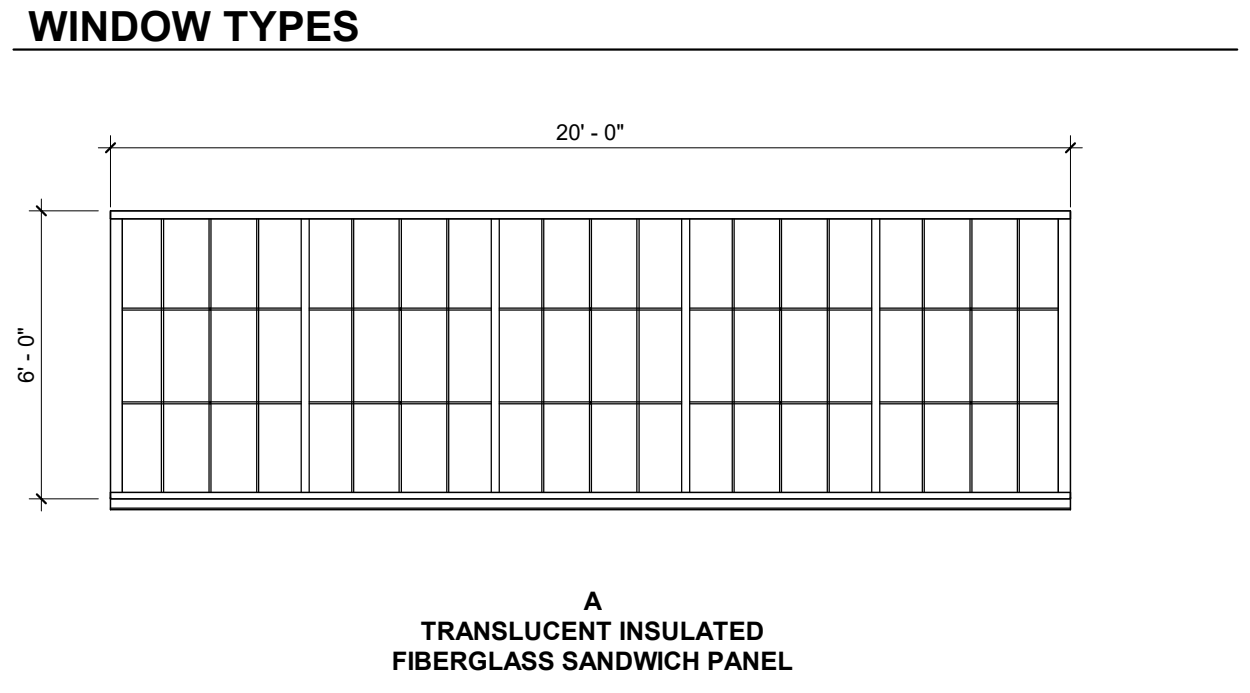
CITY OF LEXINGTON  
 LEXINGTON RACQUET CENTER  
 Lexington, NE

Revision/Issue	Date

Wall Sections  
 Project Number: 2261  
 Date: January 10, 2023  
 Copyright © 2023  
 WILKINS Architecture | Design | Planning L.L.C.



DOOR AND FRAME SCHEDULE														
DOOR NO.	TYPE	DOOR				FRAME				GLAZING		REMARKS		
		WIDTH	# LEAFS	MAIN LEAF HEIGHT	TYPE	MAT'L	FINISH	MAT'L	FINISH	DEPTH	THK		FIRE RATING	
001A	A	6'-0"	2	3'-0"	7'-0"	HG	GHM	PT	HM	PT	5.3/4"	ITC	1"	
001B	A	6'-0"	2	3'-0"	7'-0"	HG	GHM	PT	HM	PT	5.3/4"	ITC	1"	1
001C	B	6'-0"	2	3'-0"	7'-0"	HG	HM	PT	HM	PT	8.1/4"	TC	1/4"	
001D	B	6'-0"	2	3'-0"	7'-0"	HG	HM	PT	HM	PT	8.1/4"	TC	1/4"	
002A	C	3'-0"	1	7'-0"	7'-0"	FNV1	HM	PT	HM	PT	5.3/4"	ITC	1"	1
002B	F	10'-0"	1	12'-0"	12'-0"	OSID	MTL	PR	MTL	PR		ITC	1"	
002C	C	3'-0"	1	7'-0"	7'-0"	FNV1	HM	PT	HM	PT	5.3/4"	ITC	1"	
002A	C	3'-0"	1	7'-0"	7'-0"	FNV1	HM	PT	HM	PT	5.3/4"	ITC	1"	
002B	C	3'-0"	1	7'-0"	7'-0"	FNV1	HM	PT	HM	PT	5.3/4"	ITC	1"	
002A	D	6'-0"	2	3'-0"	7'-0"	FNV5	HM	PT	HM	PT	8.1/4"	FRG	1/4"	45 MIN.
002B	E	8'-0"	2	2'-6"	7'-0"	FNV5	HM	PT	HM	PT	5.3/4"	FRG	1/4"	45 MIN.



**DOOR AND FRAME ABBREVIATIONS**

**MATERIALS:**  
MTL = METAL  
AL = ALUMINUM  
HM = HOLLOW METAL  
GHM = GALVANIZED HOLLOW METAL

**FINISHES:**  
PR = PREFINISHED  
AN = ANODIZED  
PT = PAINT

**DOOR TYPES**

F = FLUSH  
FG = FULL GLASS  
HG = HALF GLASS  
FNV1 = 6" x 36" VISION PANEL  
FNV5 = 6" x 30" VISION PANEL  
OSID = OVERHEAD SECTIONAL INSULATED DOOR

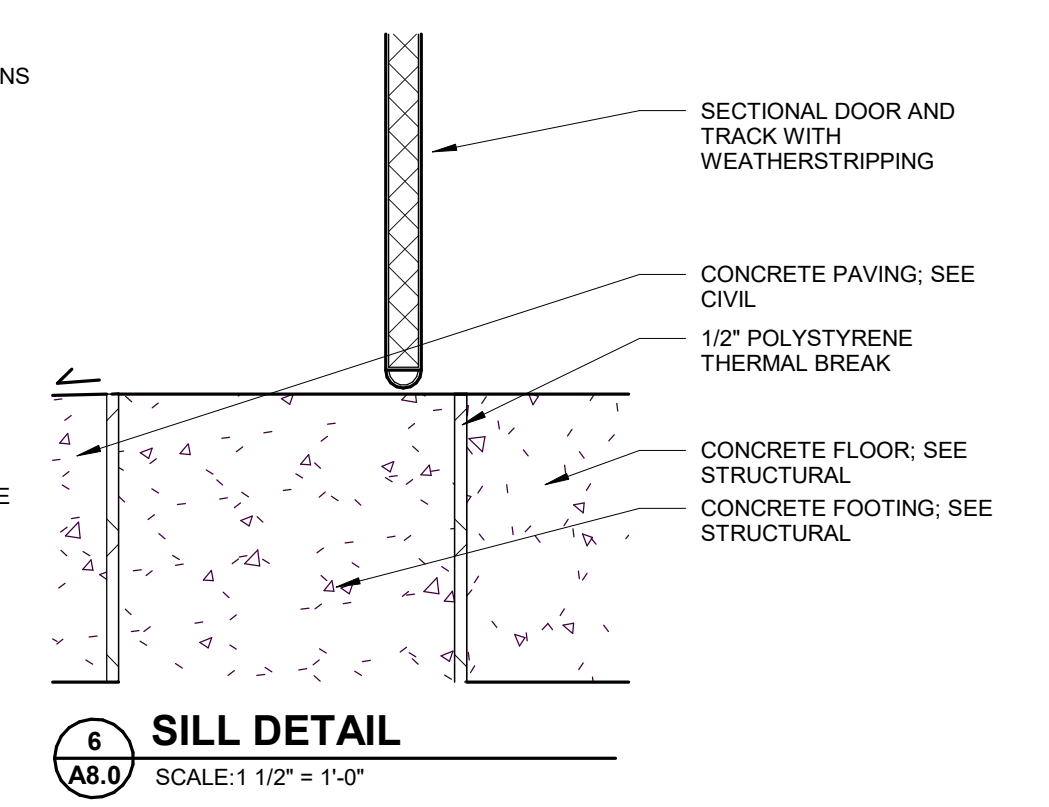
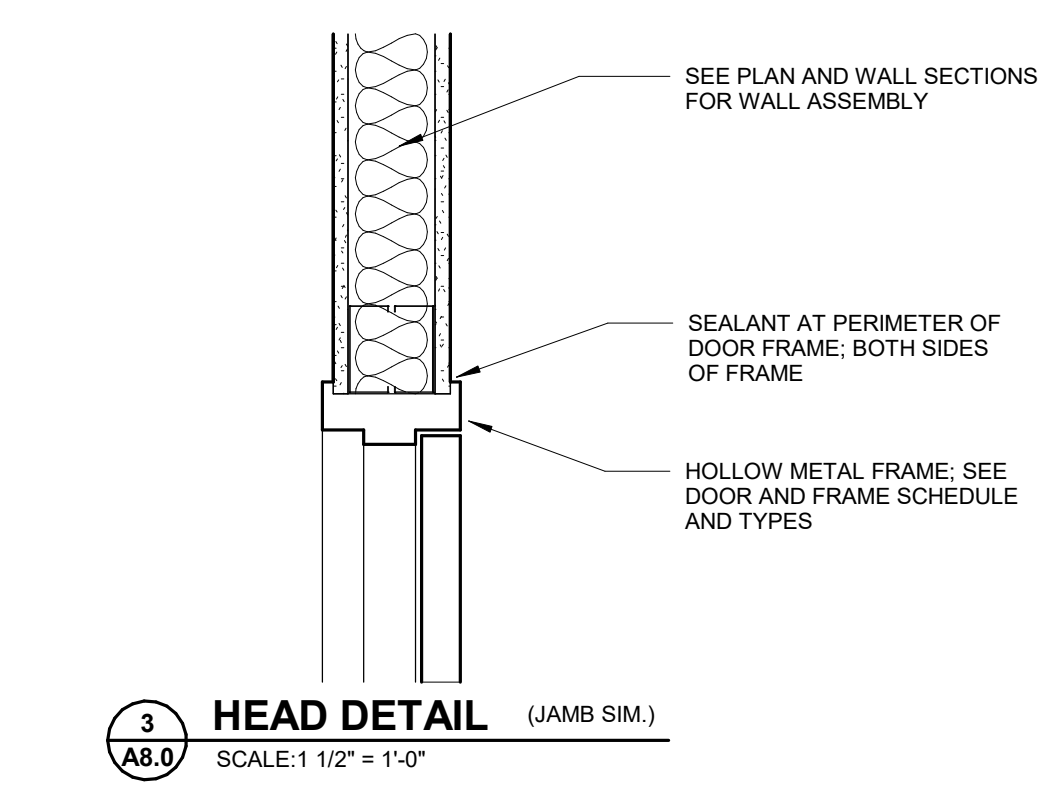
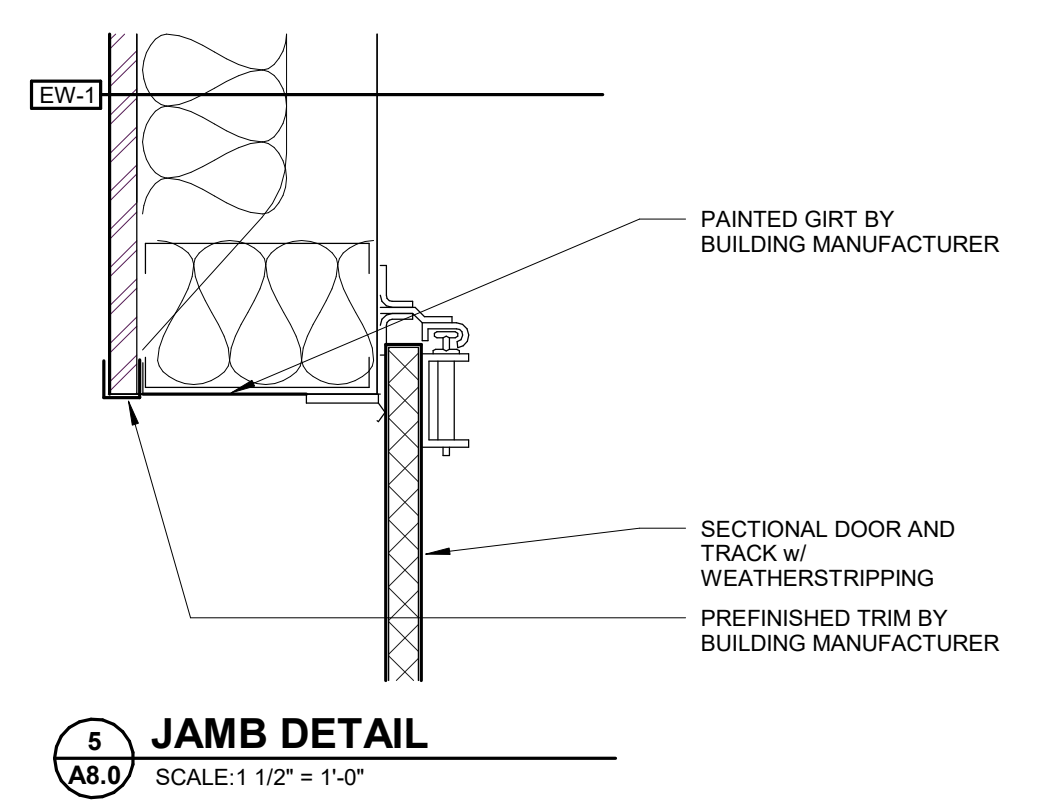
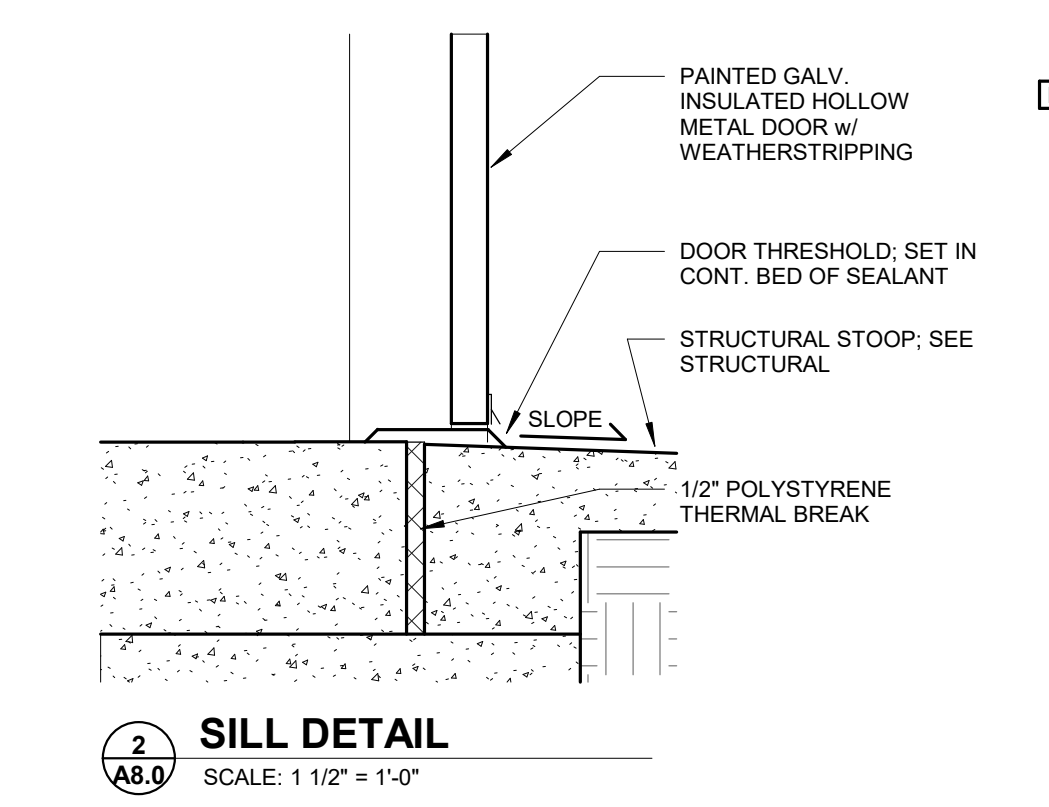
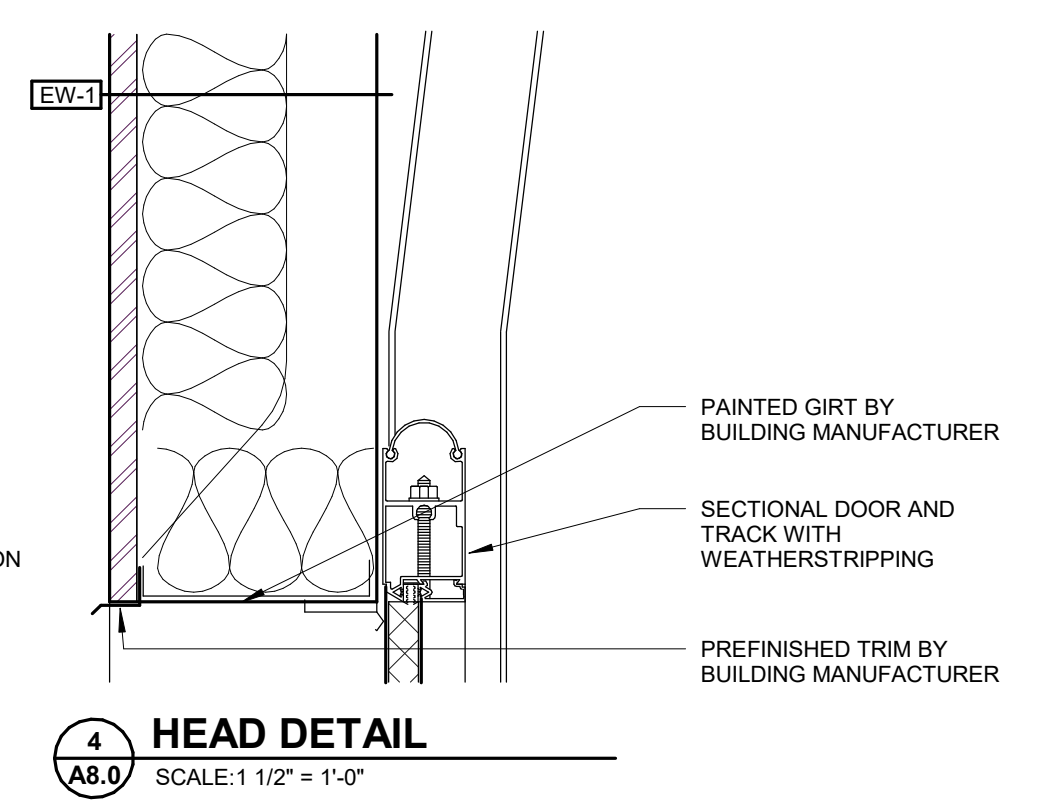
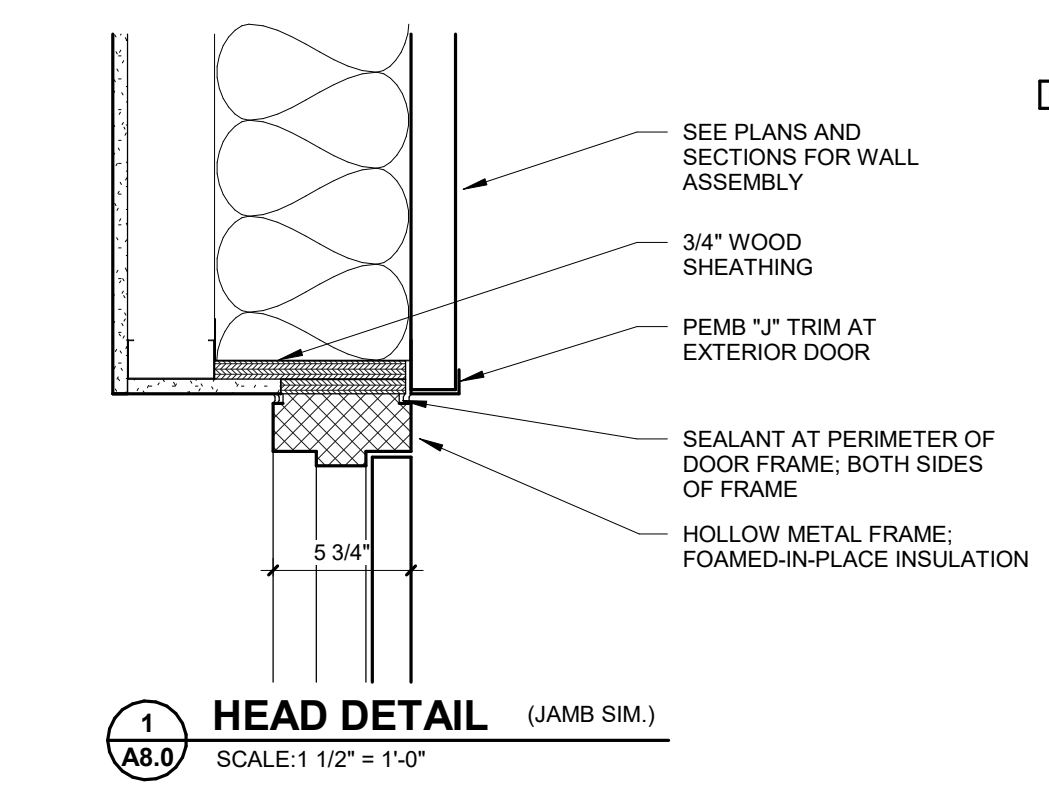
**DOOR AND FRAME REMARKS**

1. CARD READER

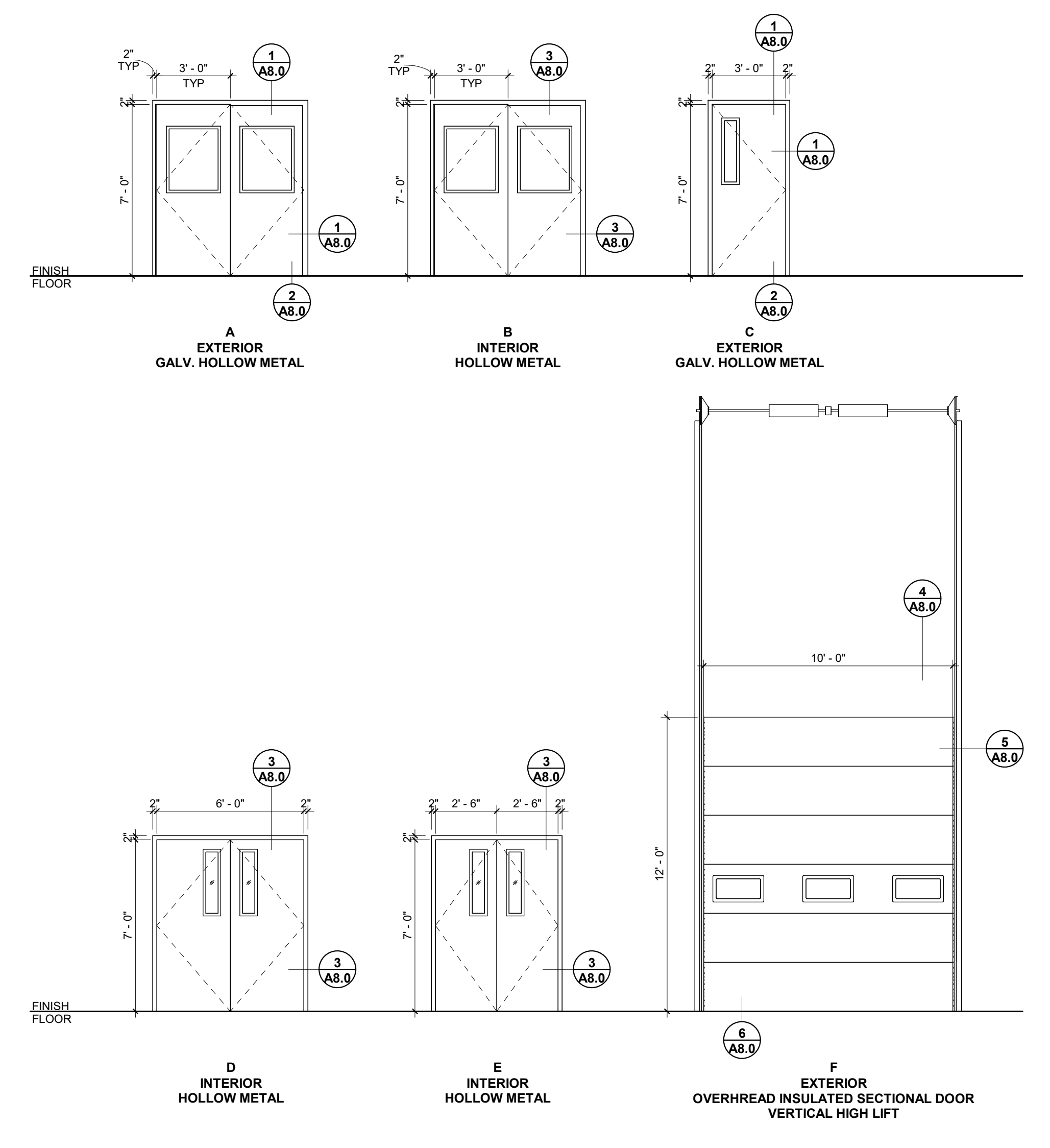
**GLASS TYPES**

ITC = INSULATED TEMPERED CLEAR (LOW-E)  
TC = TEMPERED CLEAR  
FRG = FIRE RATED GLAZING

**DOOR AND WINDOW DETAILS**



**DOOR TYPES**



**CITY OF LEXINGTON**  
**LEXINGTON RACQUET CENTER**  
Lexington, NE

Revision/Issue	Date
----------------	------

Door and Window Types and Details

Project Number: 2261  
Date: January 10, 2023  
Copyright © 2023  
WILKINS Architecture | Design | Planning L.L.C.

Sheet Number:  
**A8.0**

ROOM FINISH SCHEDULE													
ROOM NO.	ROOM	FLOOR	BASE	CASEWORK				NORTH	EAST	SOUTH	WEST	CEILING	REMARKS
				BASE	TOP	UPPER							
001	VESTIBULE	SC	WB-1	--	--	--		P-3	P-3	P-3	P-3	P-1	-
002	RECEPTION	SC	WB-1	PL-1	SS-1	PL-1		P-3	P-3	P-3/P-4	P-3	EXP	1,6
003	TENNIS COURTS	SC	WB-2	--	--	--		P-2/P-1	P-2	P-2/P-1	P-2/P-1	EXP	1,3,4,5
004	SPECTATOR VIEWING AREA	SC	WB-2	--	--	--		P-3	--	P-3	FRP	--	1,5
005	TENNIS COURTS	SC	WB-2	--	--	--		P-2/P-1	P-2/P-1	P-2/P-1	P-2	EXP	1,3,4,5
006	ALCOVE	SC	WB-1	--	--	--		--	P-3	FRP	P-3	P-1	1
007	WOMENS RR	SC	WB-1	--	--	--		P-3	P-3	P-3	P-3	P-1	1
008	MENS RR	SC	WB-1	--	--	--		P-3	P-3	P-3	P-3	P-1	1
009	STORAGE / MECH.	SC	WB-1	--	--	--		P-3	P-3	P-3	P-3	EXP. PAINT P-1	2
010	MEZZANINE	--	--	--	--	--		--	--	--	--	EXP.	-

MATERIALS LIST					
KEY	DESCRIPTION	MANUFACTURER	PATTERN/STYLE	COLOR/NAME	REMARKS
WALL BASE					
WB-1	VINYL BASE - 4"	TARKETT	TRADITIONAL COVE	20 CHARCOAL WG	
WB-2	VINYL BASE - 6"	TARKETT	TRADITIONAL COVE	20 CHARCOAL WG	
PAINT					
P-1	PAINT	SHERWIN WILLIAMS		PURE WHITE SW7005	FLAT FINISH ON CEILINGS, ALL OTHER APPLICATIONS TO BE EGGSHELL
P-2	PAINT	SHERWIN WILLIAMS		CUSTOM GREEN TO MATCH OWNER-PROVIDED COURT SURFACING. COORD. WITH OWNER	EGGSHELL FINISH
P-3	PAINT	SHERWIN WILLIAMS		REPOSE GRAY SW 7015	FIELD PAINT - EGGSHELL FINISH; INTERIOR HM DOOR FRAMES - SEMI-GLOSS FINISH
P-4	PAINT	SHERWIN WILLIAMS		CUSTOM MATCH PANTONE 395U	EGGSHELL FINISH
PLASTIC LAMINATE					
PL-1	PLASTIC LAMINATE	WILSONART		COSMIC STRANDZ 4941K-18	LINEARITY FINISH
SOLID SURFACE					
SS-1	SOLID SURFACE	CORIAN		ARCTIC ICE	
MISCELLANEOUS					
CG	CORNER GUARD - 96"	INPRO	1 1/2" SURFACE MOUNTED	STAINLESS STEEL	FIELD CUT FOR HEIGHT TO FINISH AT CEILING OR BULKHEAD, INSTALL ABOVE WALL BASE
EXP	EXPOSED STRUCTURE / MEP ABOVE			PAINT AS NOTED	
FRP	FIBERGLASS REINFORCED PANEL	CRANE COMPOSITES	VARIETEX, SANDSTONE TEXTURE	COTTON WHITE (1130)	PROVIDE AND INSTALL w/ REQUIRED TRIM TO FINISH EXPOSED EDGES AND FASTENERS
SC	SEALED CONCRETE				CLEAR CURING AND SEALING COMPOUND

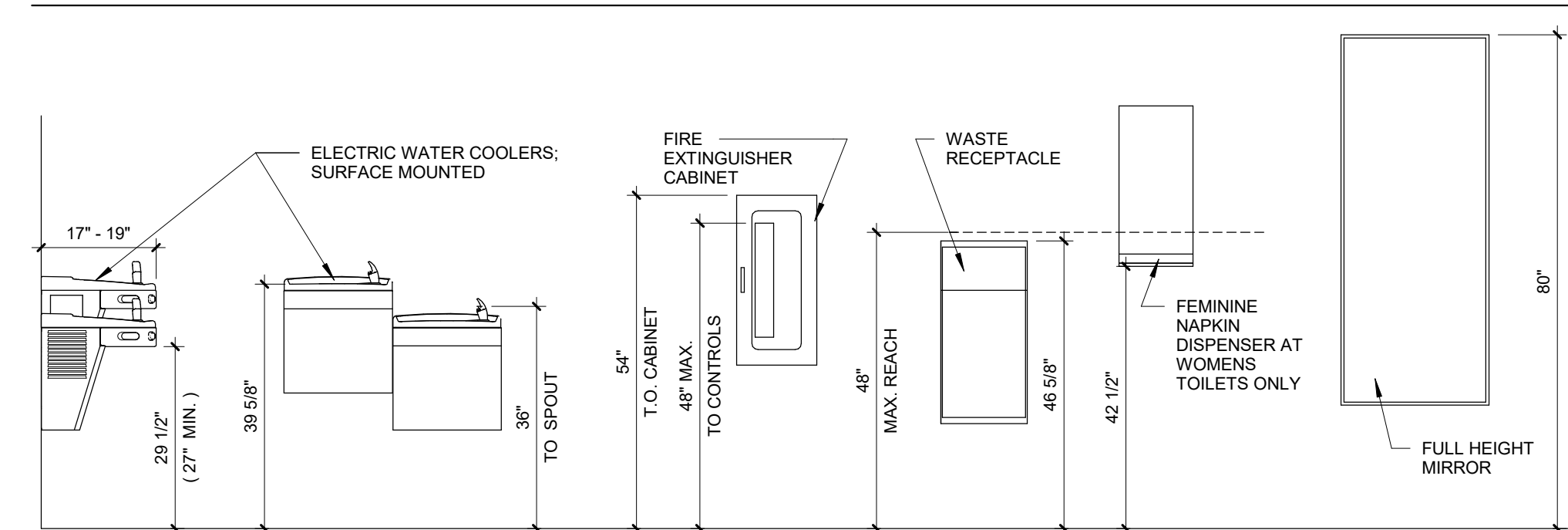
### ROOM FINISH GENERAL NOTES

- SEE FINISH FLOOR PLANS AND ELEVATIONS FOR VARIOUS FINISH DESIGNATIONS AND NOTES.
- ALL BULKHEADS AND CEILINGS TO BE PAINTED P-1 UNLESS NOTED OTHERWISE. REFER TO REFLECTED CEILING PLAN AND INTERIOR ELEVATIONS FOR VARIOUS PAINT DESIGNATIONS ON BULKHEADS.
- ALL WALLS IN SCHEDULE TO BE PAINTED P-3 UNLESS NOTED OTHERWISE; VARIOUS FINISHES NOTED IN SCHEDULE, INTERIOR ELEVATIONS AND FINISH PLANS.
- AT ALL DISSIMILAR FLOOR FINISHES PROVIDE VINYL REDUCER/TRANSITION AS REQUIRED TO ACCOMMODATE VARIOUS FLOOR FINISH THICKNESSES; PROVIDE UNDERLAYMENT AS REQUIRED TO PROVIDE FLUSH TRANSITIONS BETWEEN FLOORING MATERIALS; SEE SPECIFICATIONS FOR DETAILS.
- "-" ON ROOM FINISH SCHEDULE REPRESENTS NO FINISH NEEDED.
- ALL EXTERIOR HOLLOW METAL DOOR FRAMES ON EXTERIOR SIDE TO BE PAINTED TO MATCH EXTERIOR FINISHES. VERIFY w/ ARCHITECT; ALL INTERIOR SIDES OF EXTERIOR HOLLOW METAL DOOR FRAMES TO BE PAINTED P-3. VERIFY WITH ARCHITECT.
- ALL INTERIOR HOLLOW METAL DOOR FRAMES TO BE PAINTED P-3. VERIFY w/ ARCHITECT.
- REFER TO FLOOR FINISH PLANS FOR LOCATIONS OF FLOORING TRANSITIONS, DESIGNS AND INSTALLATION METHODS; VERIFY ALL INSTALLATION METHODS AND LAYOUT PRIOR TO INSTALLATION. START FLOORING PATTERNS CENTERED WITHIN DESIGNATED ROOMS; SMALL TILES ON EDGES NOT ACCEPTABLE.
- REFER TO RCP FOR EXPOSED STRUCTURE PAINT DESIGNATIONS.
- REFER TO RCP FOR CEILING ACCENT PAINT DESIGNATIONS.
- ALL EXPOSED COLUMNS, BEAMS, TIE RODS, TRUSSES, AND ROOF DECK ARE TO BE PAINTED PER ARCHITECTS SPECIFICATIONS.

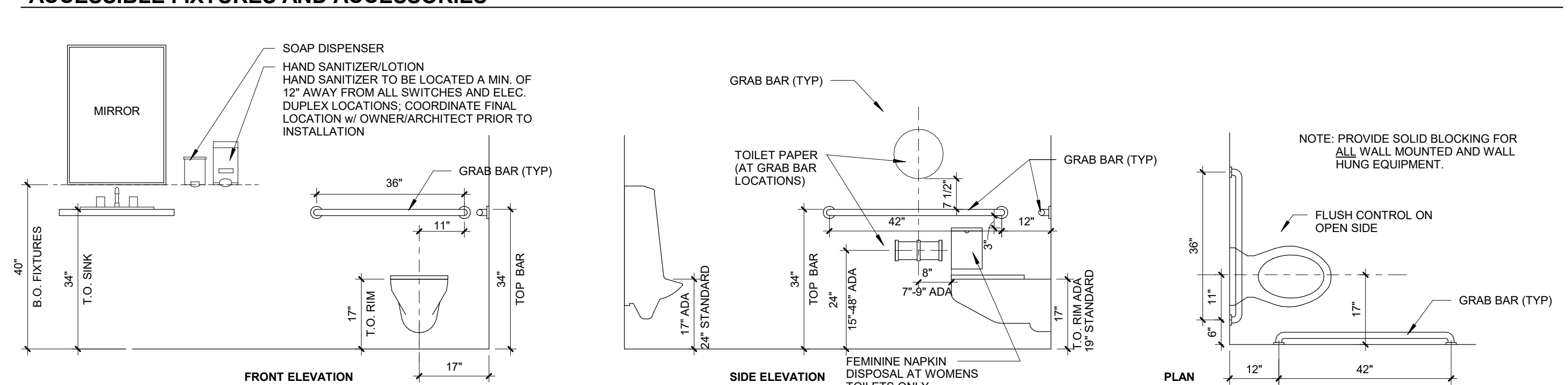
### ROOM FINISH REMARKS

- SEE INTERIOR ELEVATIONS AND FINISH FLOOR PLANS FOR VARIOUS FINISH DESIGNATIONS AND NOTES.
- FRP @ 4'-0" A.F.F. ON BOTH WALLS SURROUNDING MOP SINK, PROVIDE AND INSTALL WITH WELDED SEAMS, ALL ASSOCIATED TRIM, AND SEALANT AS REQUIRED TO FINISH PANELS.
- 3" ACCENT PAINT (P-1) STRIPE AT 3'-0" A.F.F.; SEE INTERIOR ELEVATIONS FOR EXTENTS AND DETAILS.
- DRYWALL TO EXTEND 10'-0" A.F.F.; PAINT P-2 ON ALL EXPOSED EDGES.
- SEE FINISH FLOOR PLAN FOR FLOORING TRANSITION LOCATIONS.
- ALL EDGES AND SIDES OF RECEPTION DESK TO BE FINISHED; SEE ELEVATIONS AND CASEWORK DETAILS FOR EXTENTS AND DETAILS OF FINISHES.

### ACCESSORY AND FIXTURE LAYOUT



### ACCESSIBLE FIXTURES AND ACCESSORIES



Revision/Issue	Date
----------------	------

Room Finish Schedule

Project Number: 2261  
Date: January 10, 2023

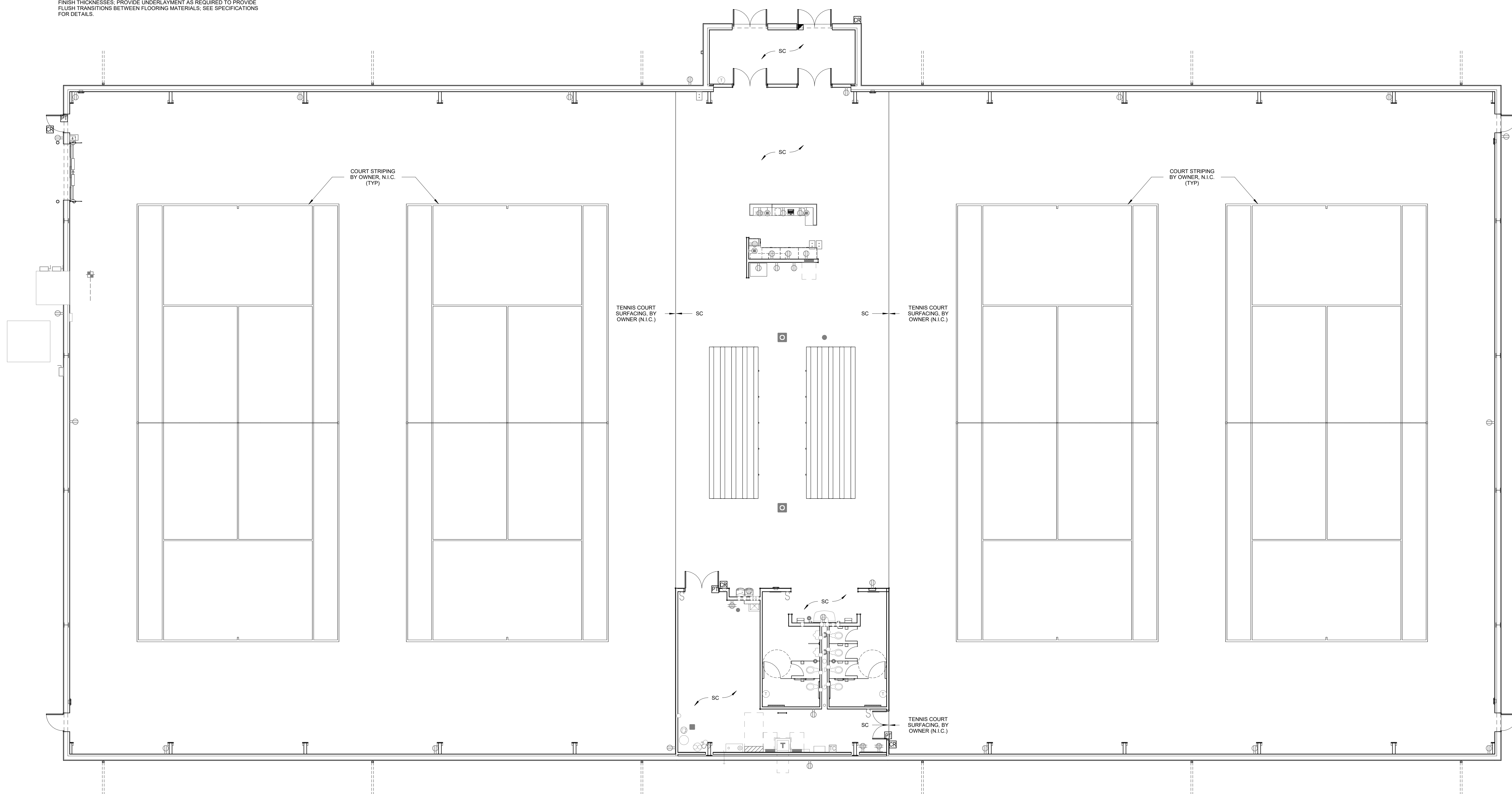
Copyright © 2023 WILKINS Architecture | Design | Planning L.L.C.

Sheet Number:

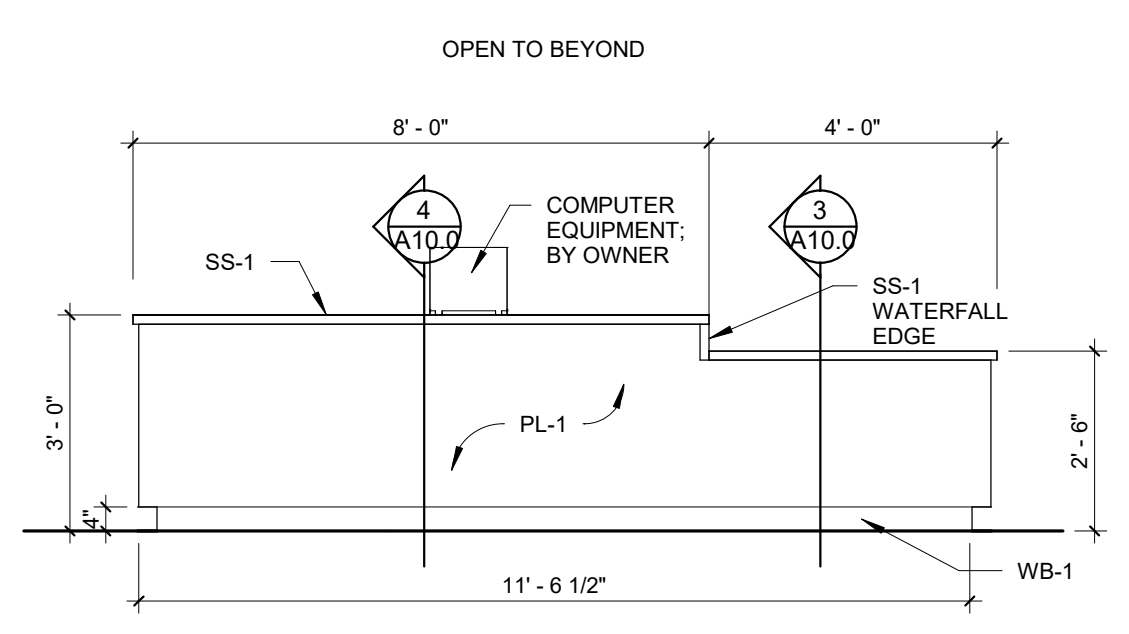


**FLOORING GENERAL NOTES**

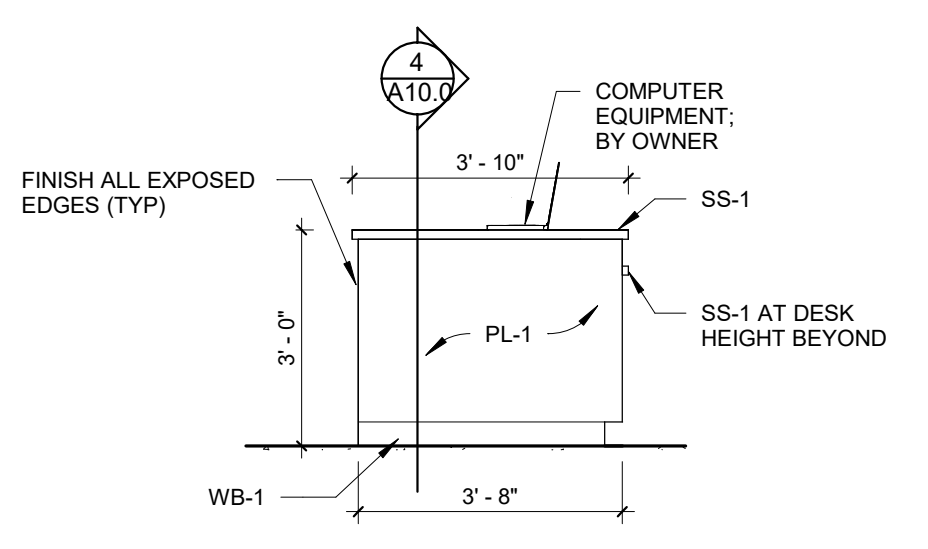
1. AT ALL DISSIMILAR FLOOR FINISHES PROVIDE METAL OR VINYL REDUCER TRANSITION. AS REQUIRED TO ACCOMMODATE VARIOUS FLOOR FINISH THICKNESSES, PROVIDE UNDERLAYMENT AS REQUIRED TO PROVIDE FLUSH TRANSITIONS BETWEEN FLOORING MATERIALS. SEE SPECIFICATIONS FOR DETAILS.



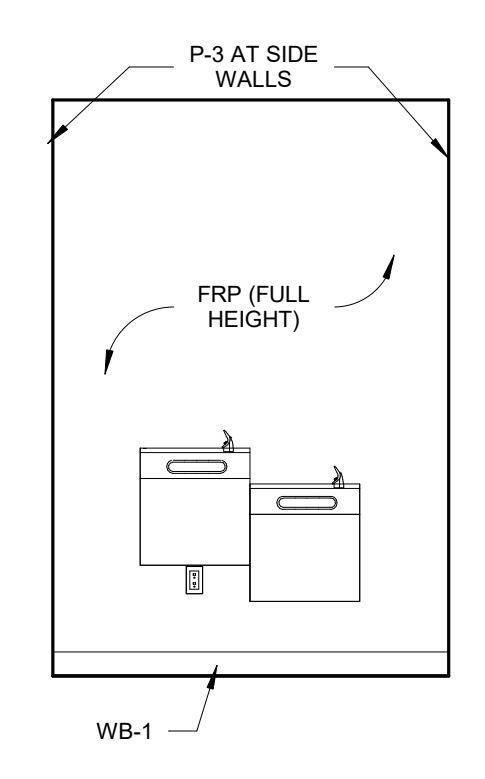
Revision/Issue	Date



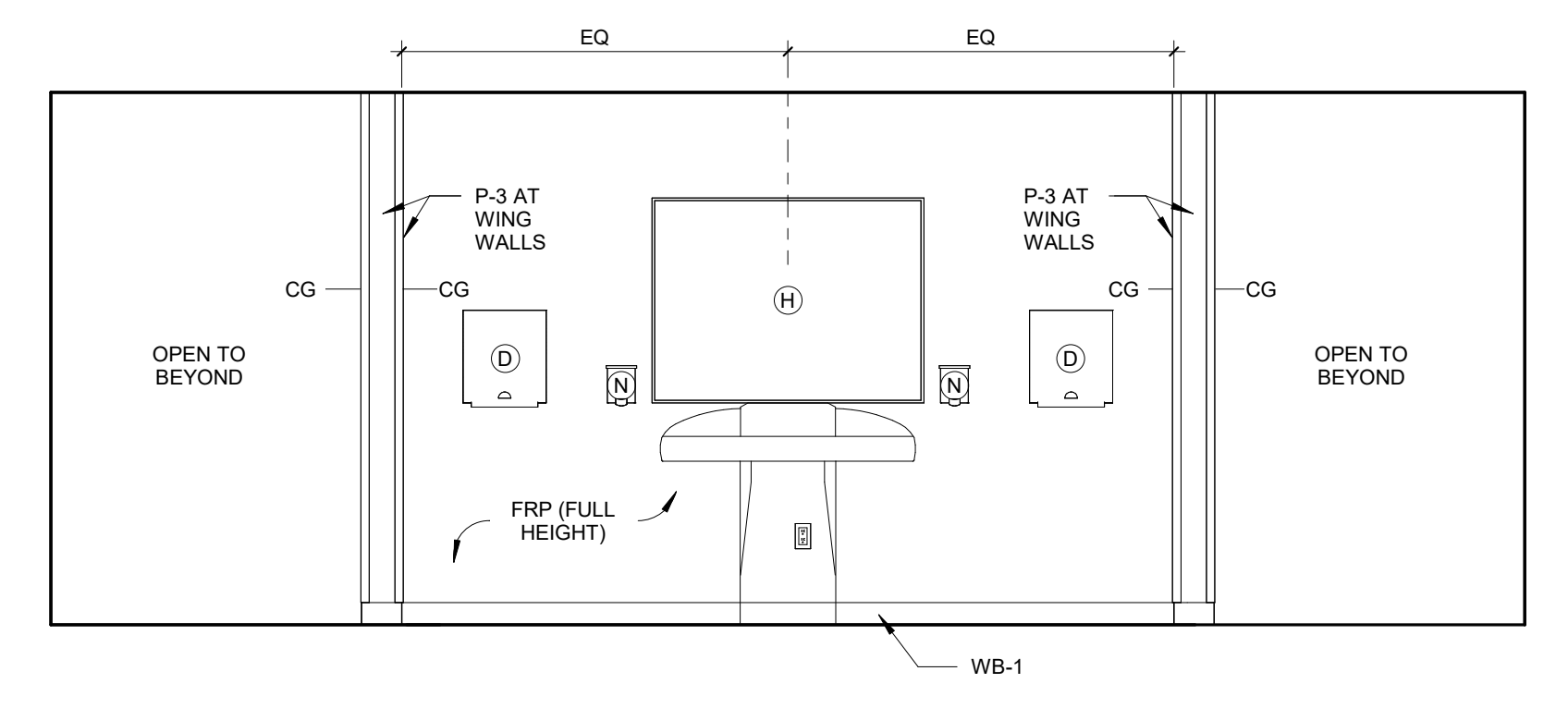
**1 INT. ELEV. - RECEPTION DESK - NORTH (FRONT)**  
SCALE: 3/8" = 1'-0"



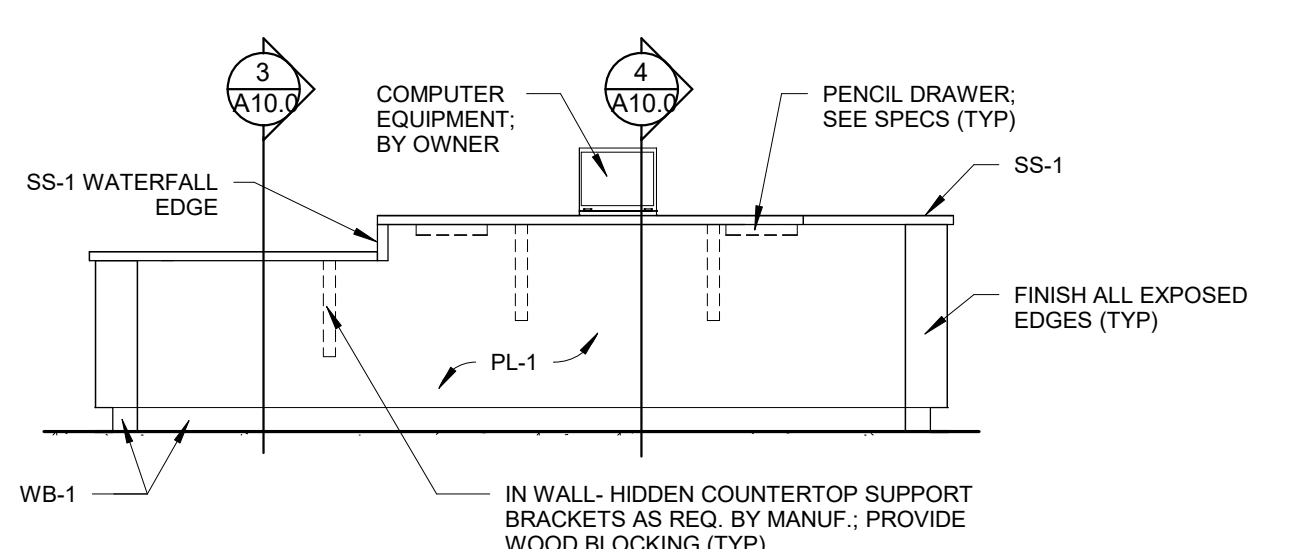
**2 INT. ELEV. - RECEPTION DESK - EAST (FRONT)**  
SCALE: 3/8" = 1'-0"



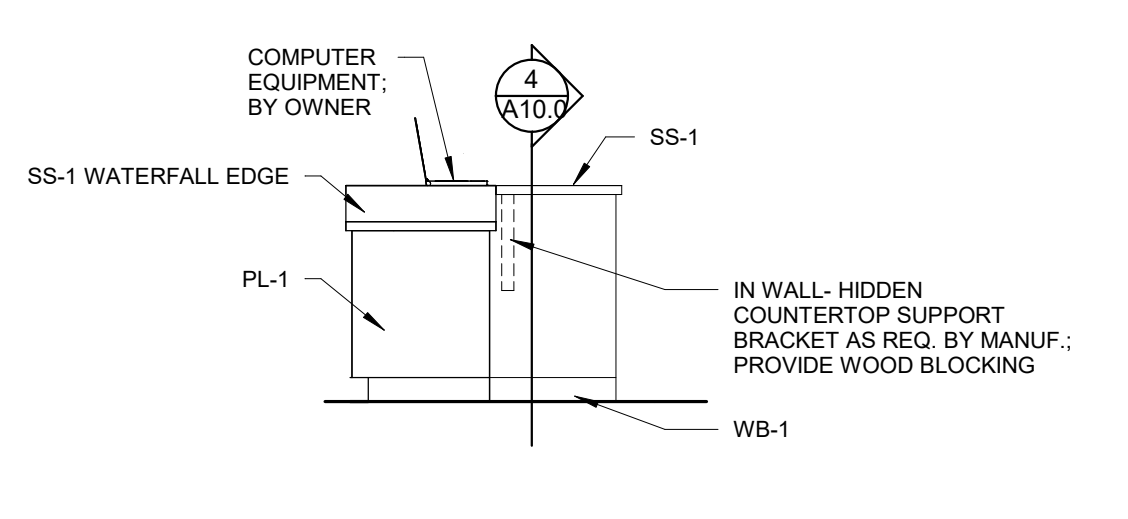
**7 INT. ELEV. - DRINKING FOUNTAIN**  
SCALE: 3/8" = 1'-0"



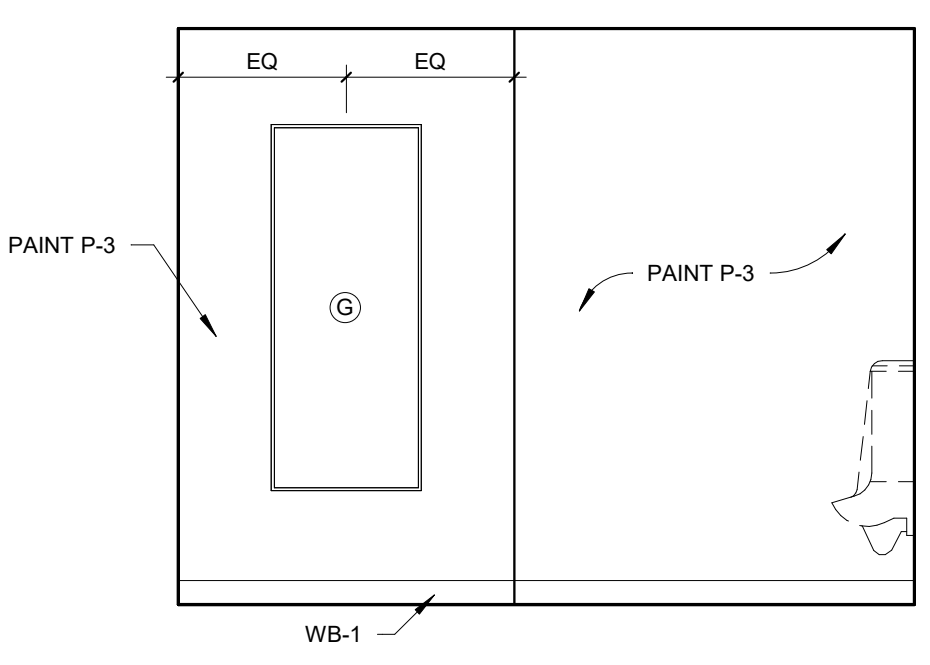
**8 INT. ELEV. - ALCOVE 006**  
SCALE: 3/8" = 1'-0"



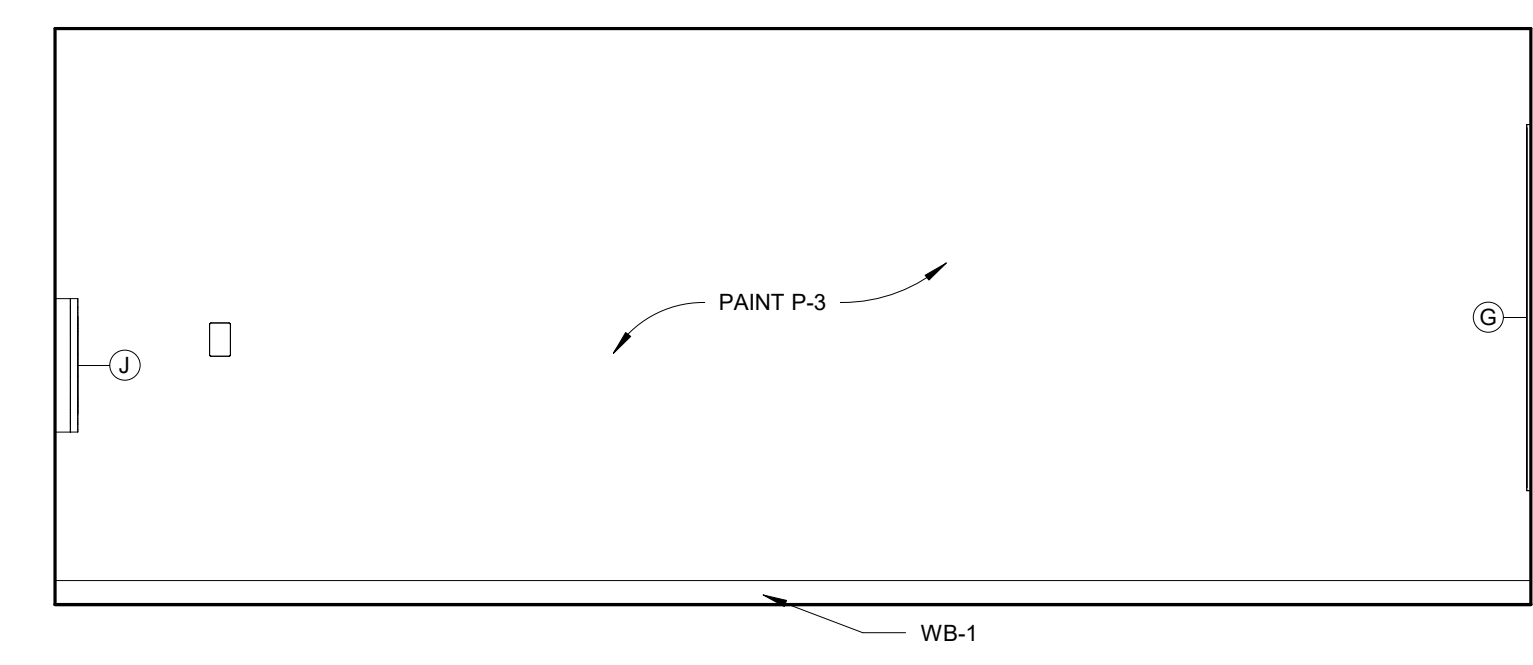
**3 INT. ELEV. - RECEPTION DESK - NORTH (BACK)**  
SCALE: 3/8" = 1'-0"



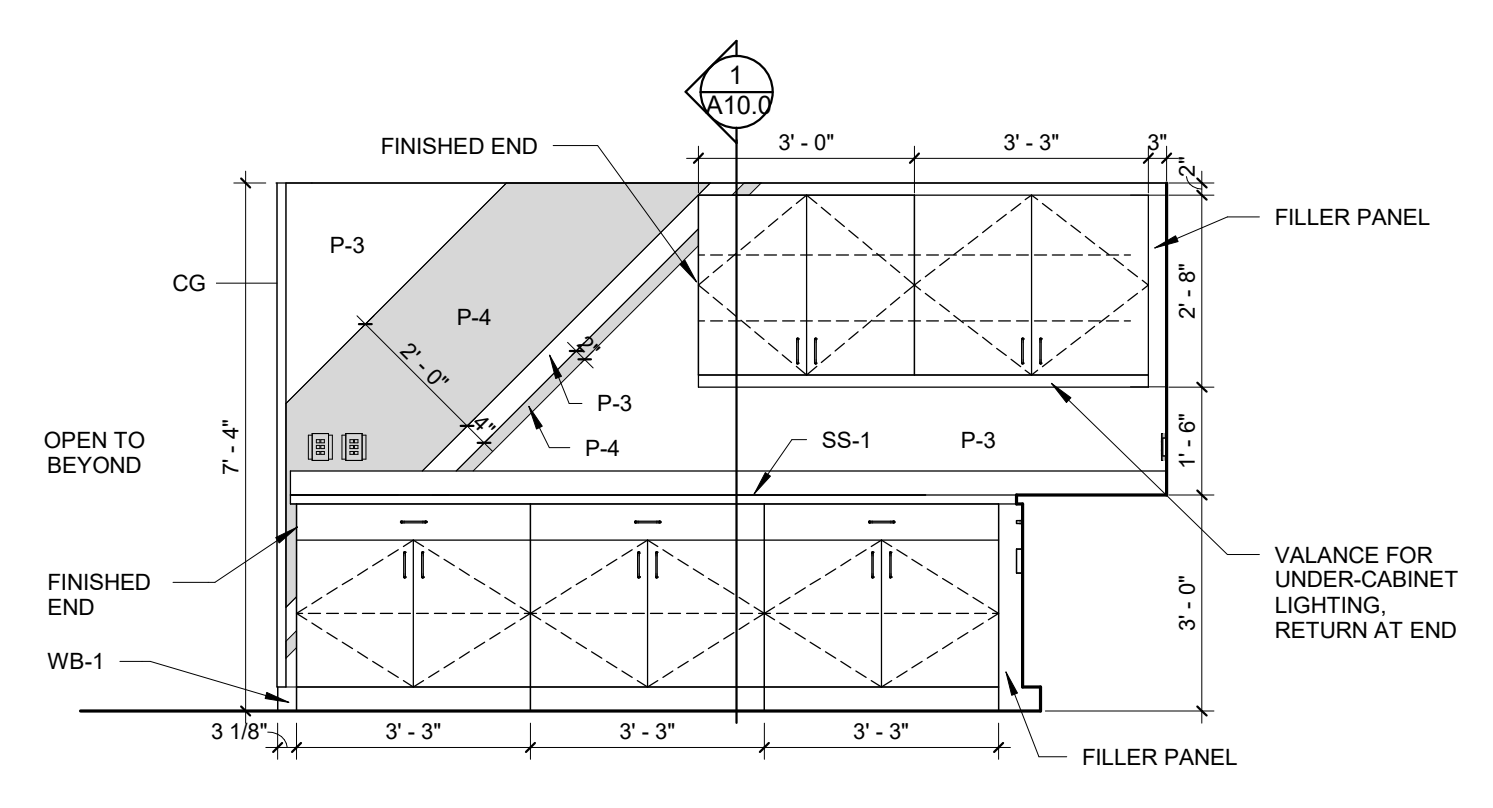
**4 INT. ELEV. - RECEPTION DESK - EAST (BACK)**  
SCALE: 3/8" = 1'-0"



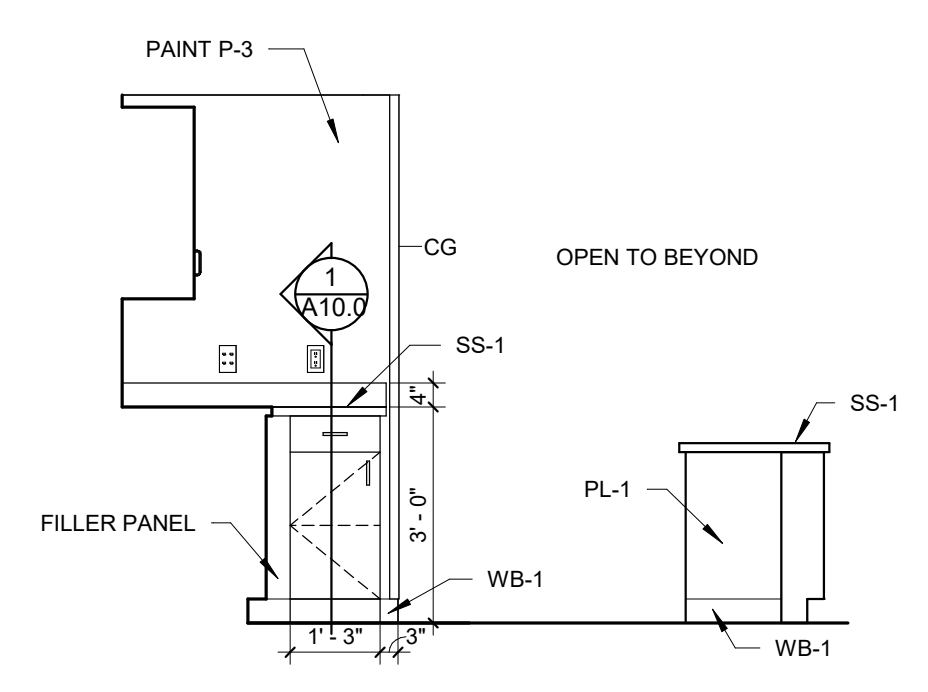
**9 INT. ELEV. - MENS RR 008 - NORTH**  
SCALE: 3/8" = 1'-0"



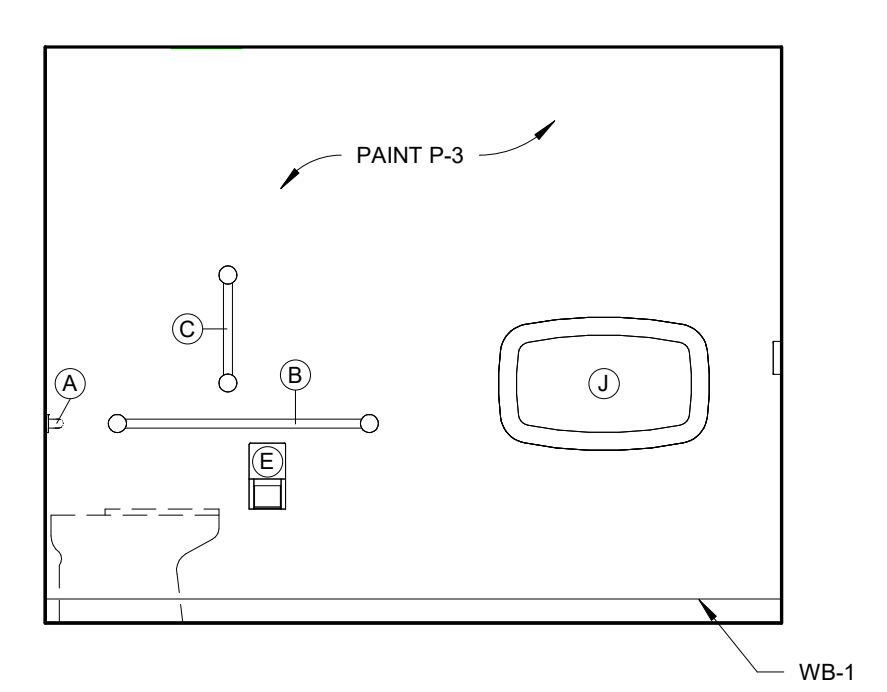
**10 INT. ELEV. - MENS RR 008 - WEST**  
SCALE: 3/8" = 1'-0"



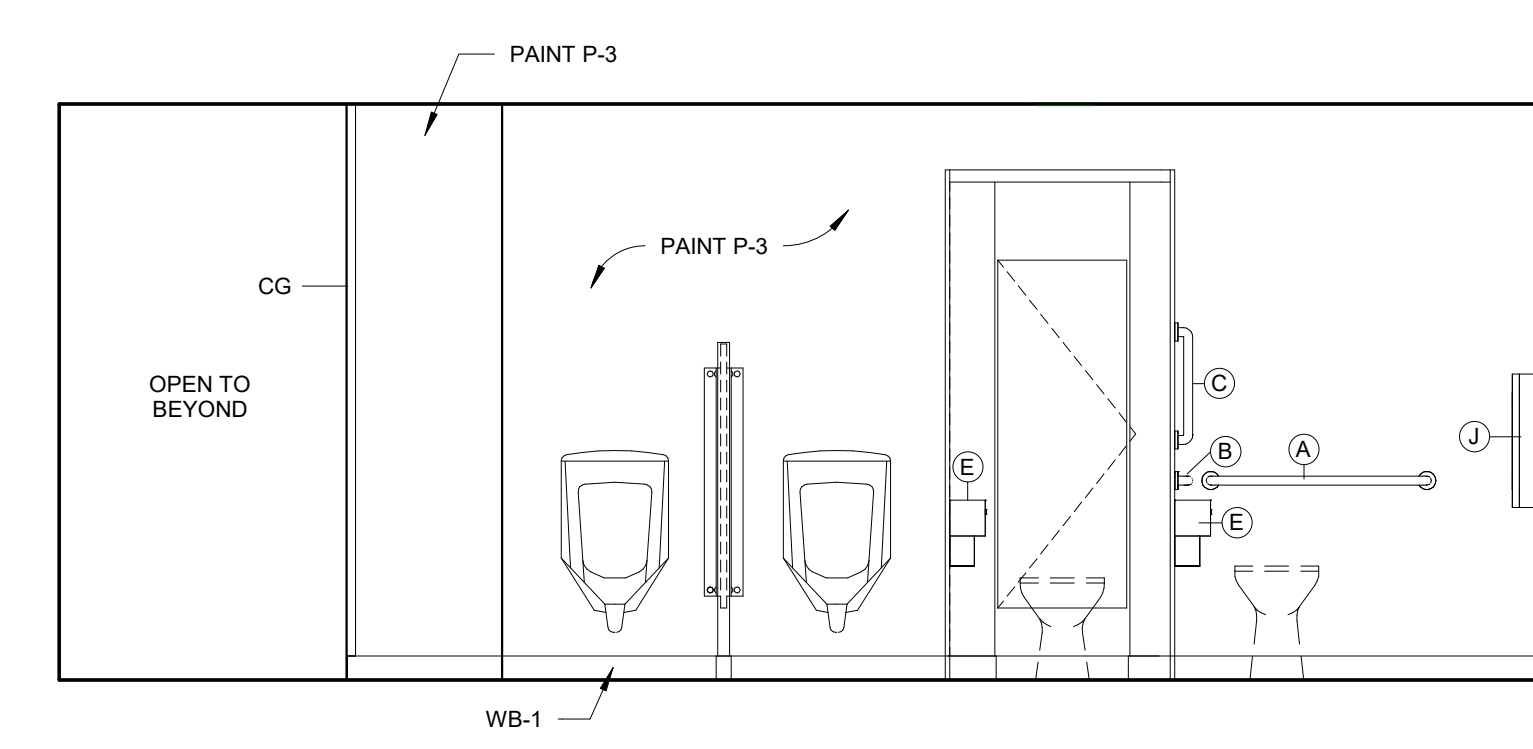
**5 INT. ELEV. - RECEPTION - SOUTH WALL**  
SCALE: 3/8" = 1'-0"



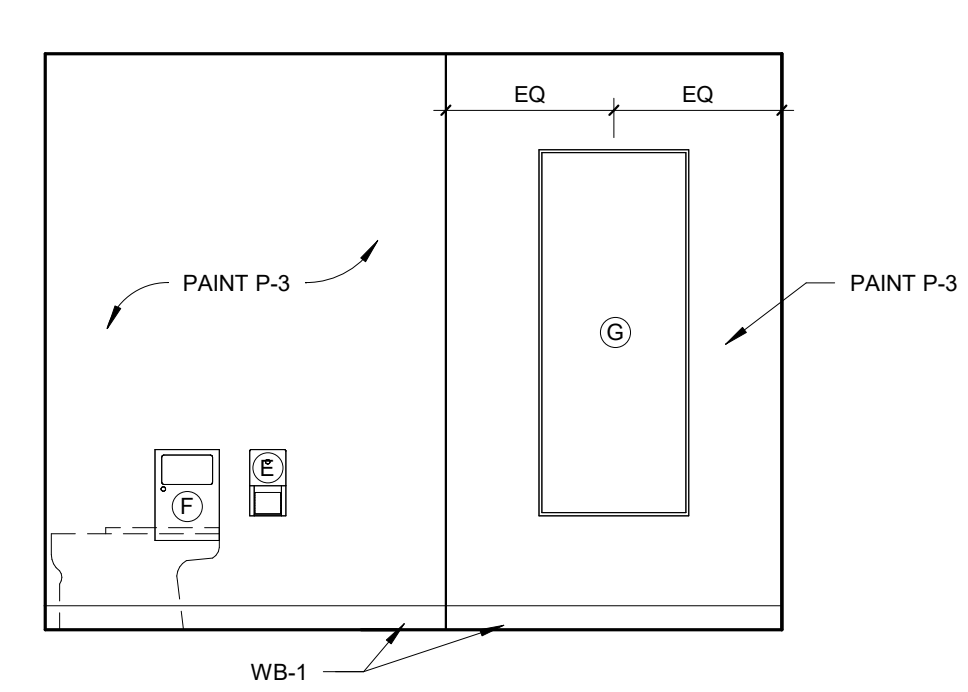
**6 INT. ELEV. - RECEPTION - WEST WALL**  
SCALE: 3/8" = 1'-0"



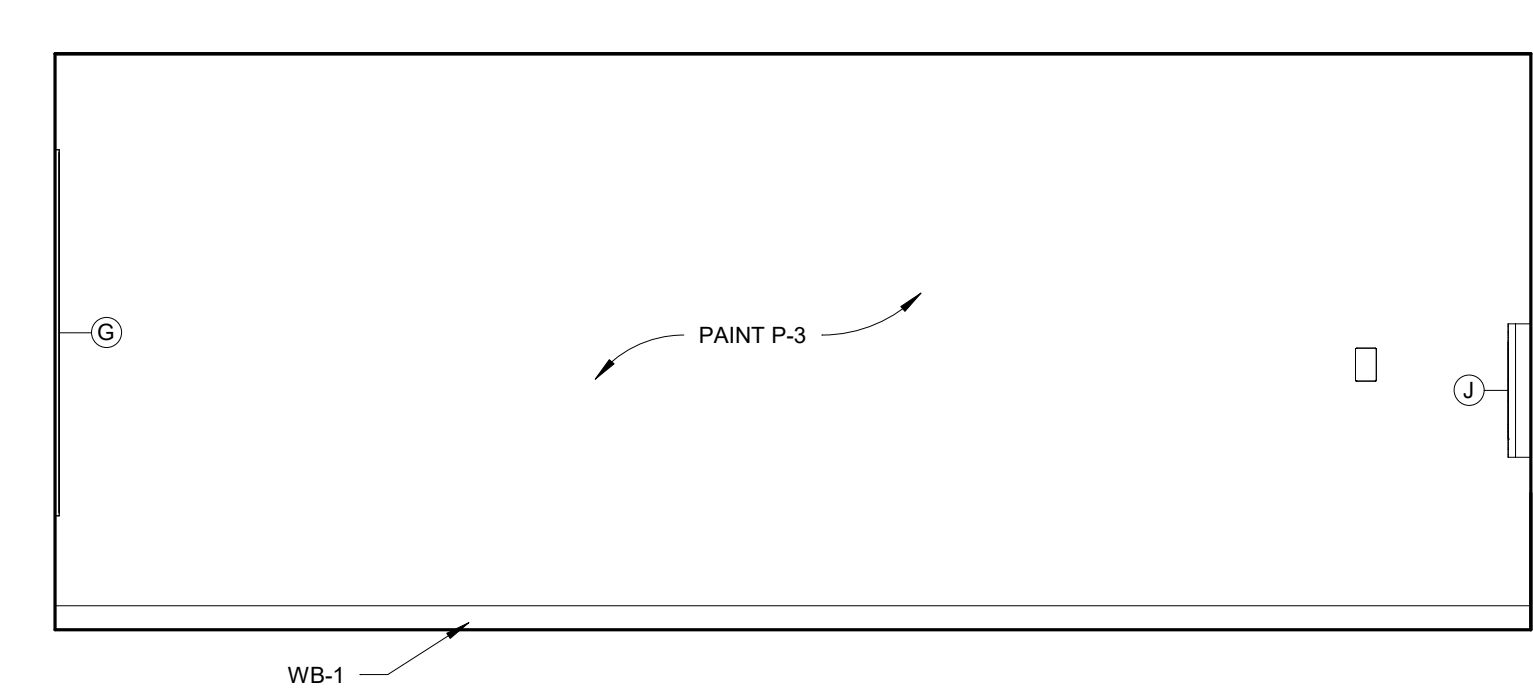
**11 INT. ELEV. - MENS RR 008 - SOUTH**  
SCALE: 3/8" = 1'-0"



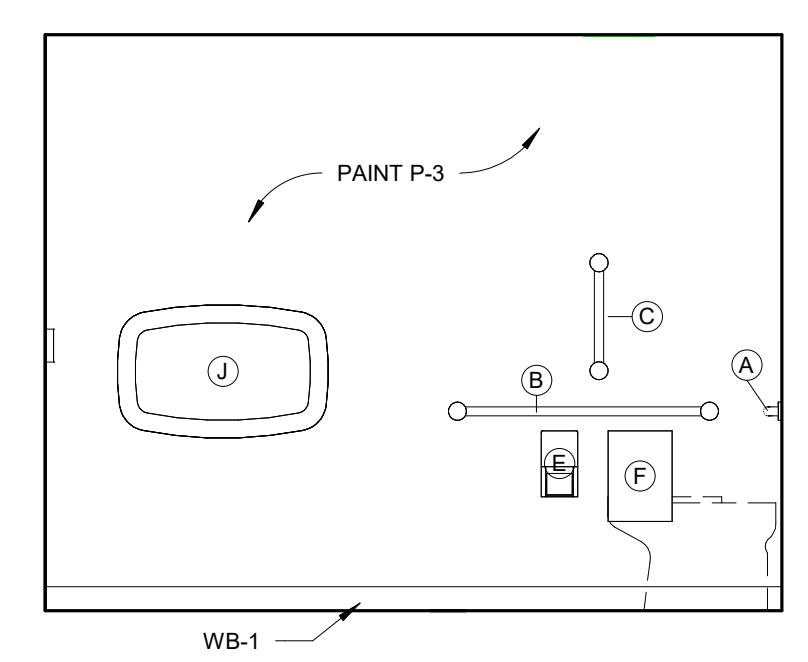
**12 INT. ELEV. - MENS RR 008 - EAST**  
SCALE: 3/8" = 1'-0"



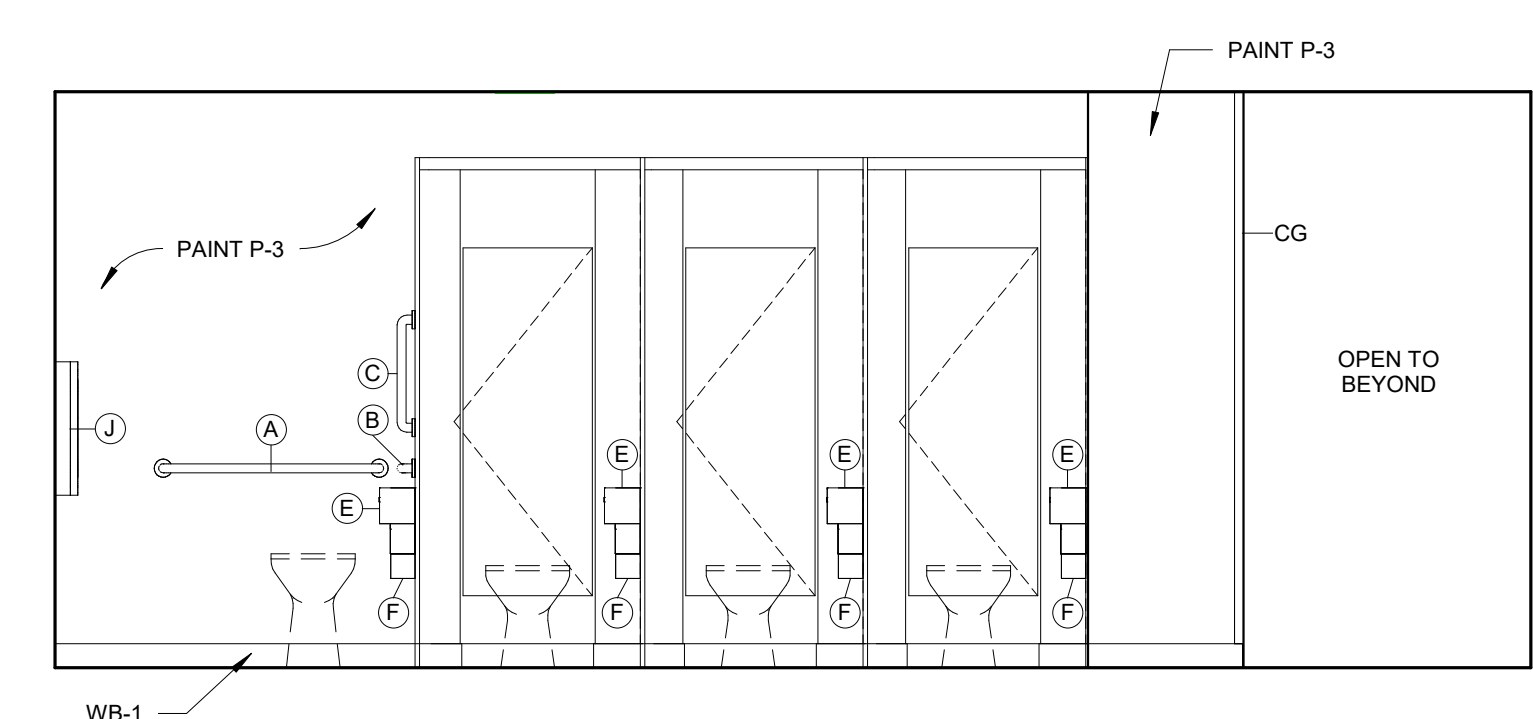
**13 INT. ELEV. - WOMENS RR 007 - NORTH**  
SCALE: 3/8" = 1'-0"



**14 INT. ELEV. - WOMENS RR 007 - EAST**  
SCALE: 3/8" = 1'-0"



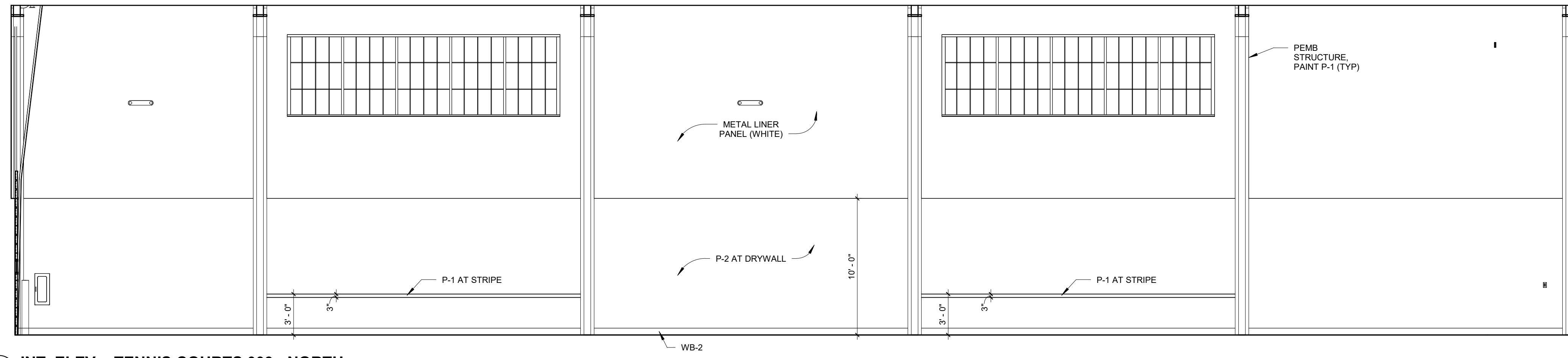
**15 INT. ELEV. - WOMENS RR 007 - SOUTH**  
SCALE: 3/8" = 1'-0"



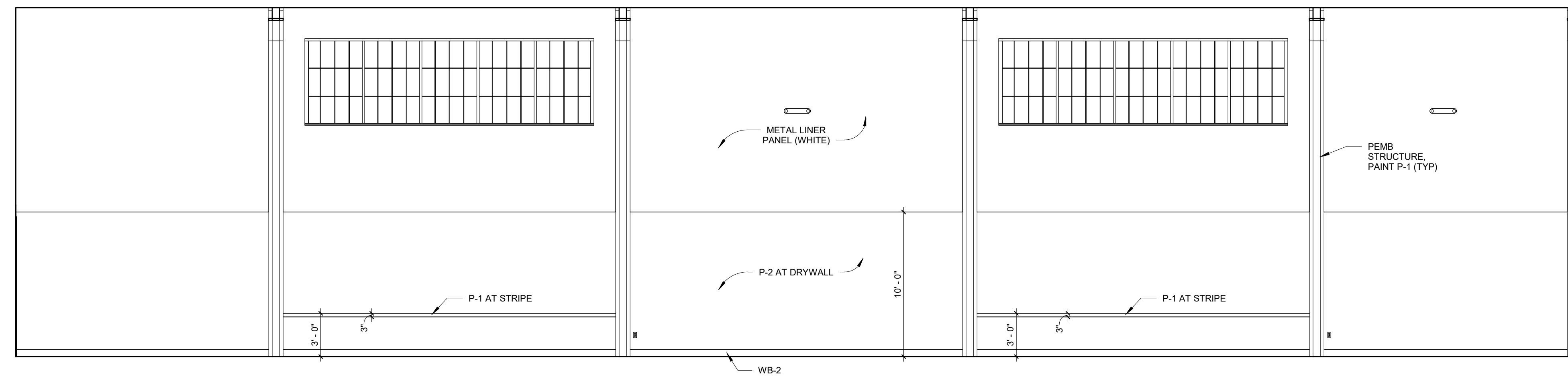
**16 INT. ELEV. - WOMENS RR 007 - WEST**  
SCALE: 3/8" = 1'-0"

Revision/Issue	Date

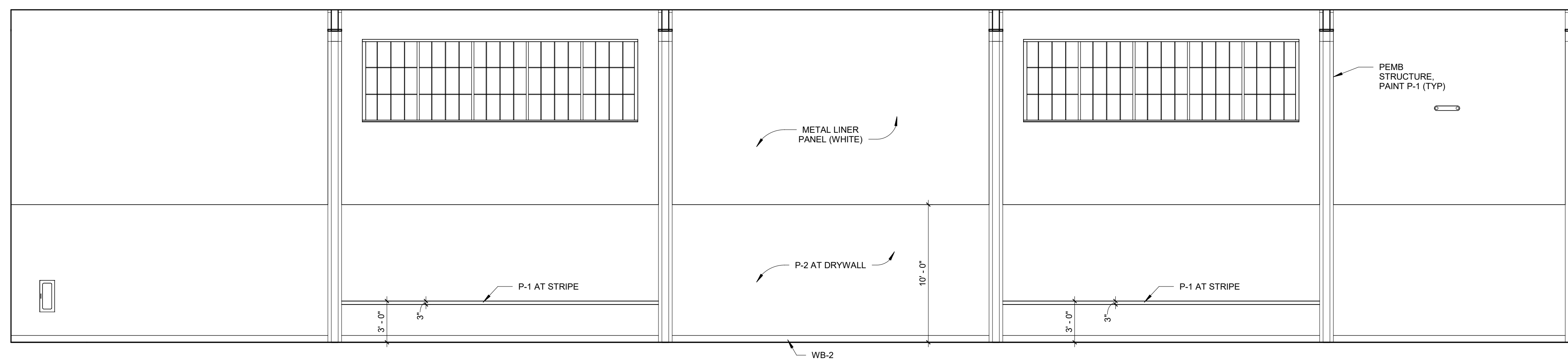
Interior Elevations  
Project Number: 2261  
Date: January 10, 2023  
Copyright © 2023  
WILKINS Architecture | Design | Planning | L.L.C.



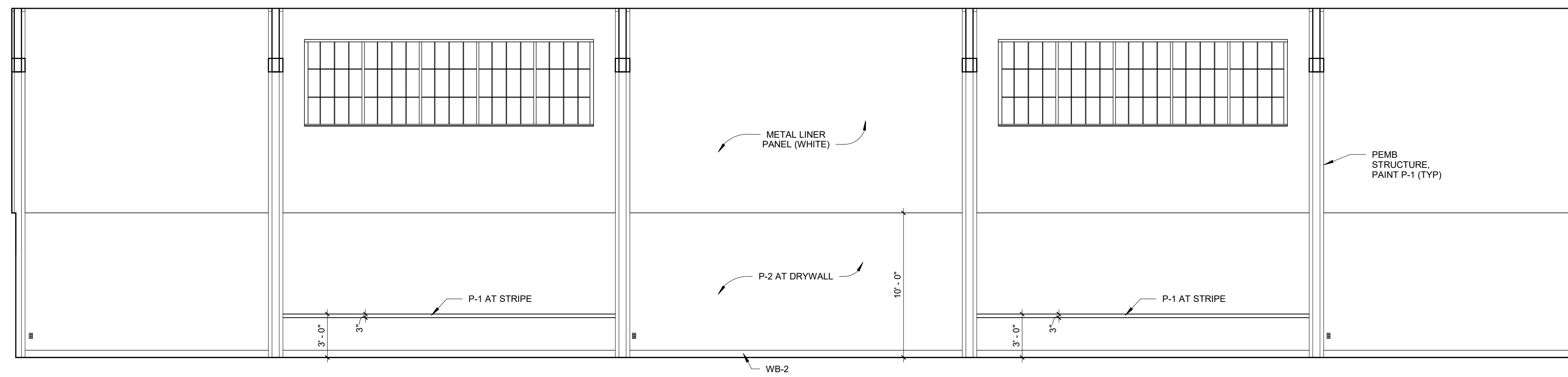
1 INT. ELEV. - TENNIS COURTS 003 - NORTH  
 A9.3 SCALE: 3/16" = 1'-0"



2 INT. ELEV. - TENNIS COURTS 003 - SOUTH  
 A9.3 SCALE: 3/16" = 1'-0"



3 INT. ELEV. - TENNIS COURTS 005 - NORTH  
 A9.3 SCALE: 3/16" = 1'-0"



4 INT. ELEV. - TENNIS COURTS 005 - SOUTH  
 A9.3 SCALE: 3/16" = 1'-0"

CITY OF LEXINGTON  
 LEXINGTON RACQUET CENTER  
 Lexington, NE

Revision/Issue	Date

Interior Elevations

Project Number: 2261  
 Date: January 10, 2023

Copyright © 2023  
 WILKINS Architecture | Design | Planning L.L.C.

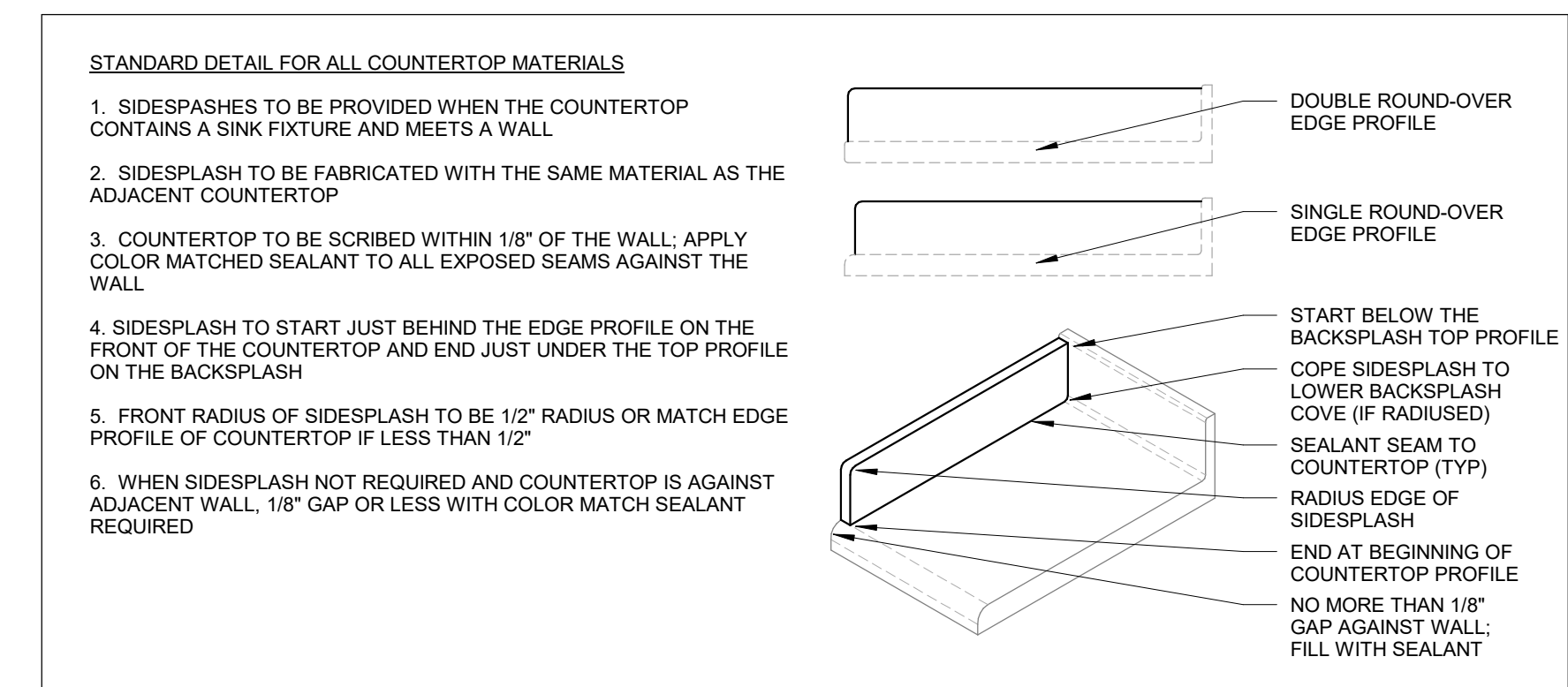
Sheet Number:

**A9.3**

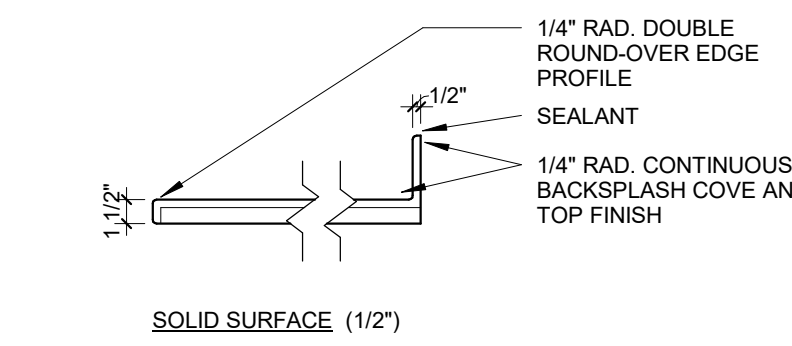
**CASEWORK GENERAL NOTES**

1. SEE ROOM FINISH SCHEDULE, ELEVATIONS, AND CASEWORK DETAILS FOR EXTENTS AND DETAILS OF FINISHES.
2. ALL COUNTERTOPS TO BE SCRIBED TO FIT TIGHTLY TO WALL; APPLY SEALANT AT EXPOSED EDGES.
3. SEE ROOM FINISH SCHEDULE FOR MATERIAL AT VARIOUS LOCATIONS; REFER TO COUNTERTOP CONSTRUCTION DETAILS ON SHEET A10.0 AND SPECIFICATIONS FOR FABRICATION AND INSTALLATION AS REQUIRED.
4. ALL CASEWORK TO BE INSTALLED WITH FINISHED ENDS AT ALL EXPOSED SIDES OR CABINETS AND INSTALLED WITH FINISHED FILLER PANELS (INCLUDING HORIZONTAL AND VERTICAL SURFACE) AS REQUIRED FOR CABINETS TO FIT FUNCTIONALLY ALONG SIDE ADJACENT WALLS.
5. PROVIDE WALL BASE ON ALL TOE-KICKS AND FINISHED EXPOSED ENDS OF CABINETS AS SCHEDULED IN ROOM FINISH SCHEDULE.
6. AT EXPOSED FINISHED SIDES OF CASEWORK PROVIDE TOE-KICK REVEAL 3/4" OFF FACE OF CABINET.

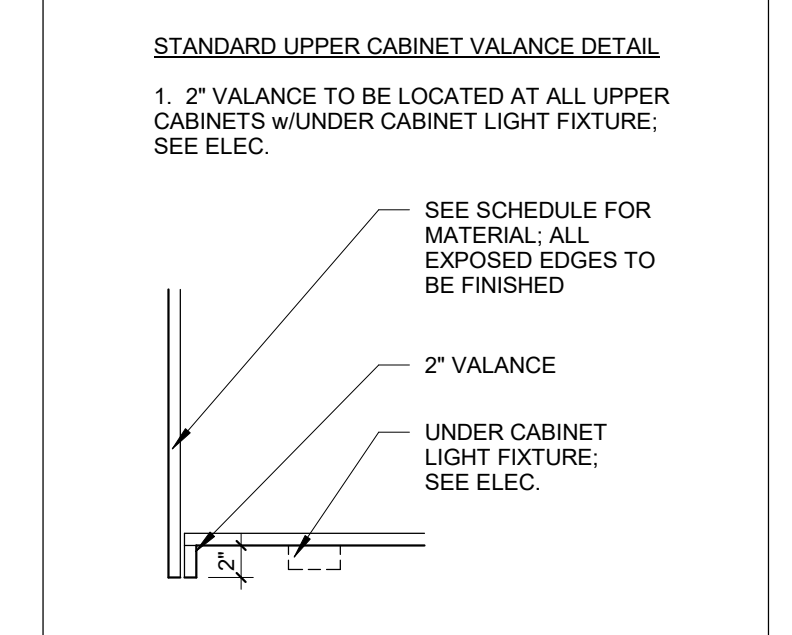
**COUNTERTOP SIDESPLASH DETAIL (TYP)**



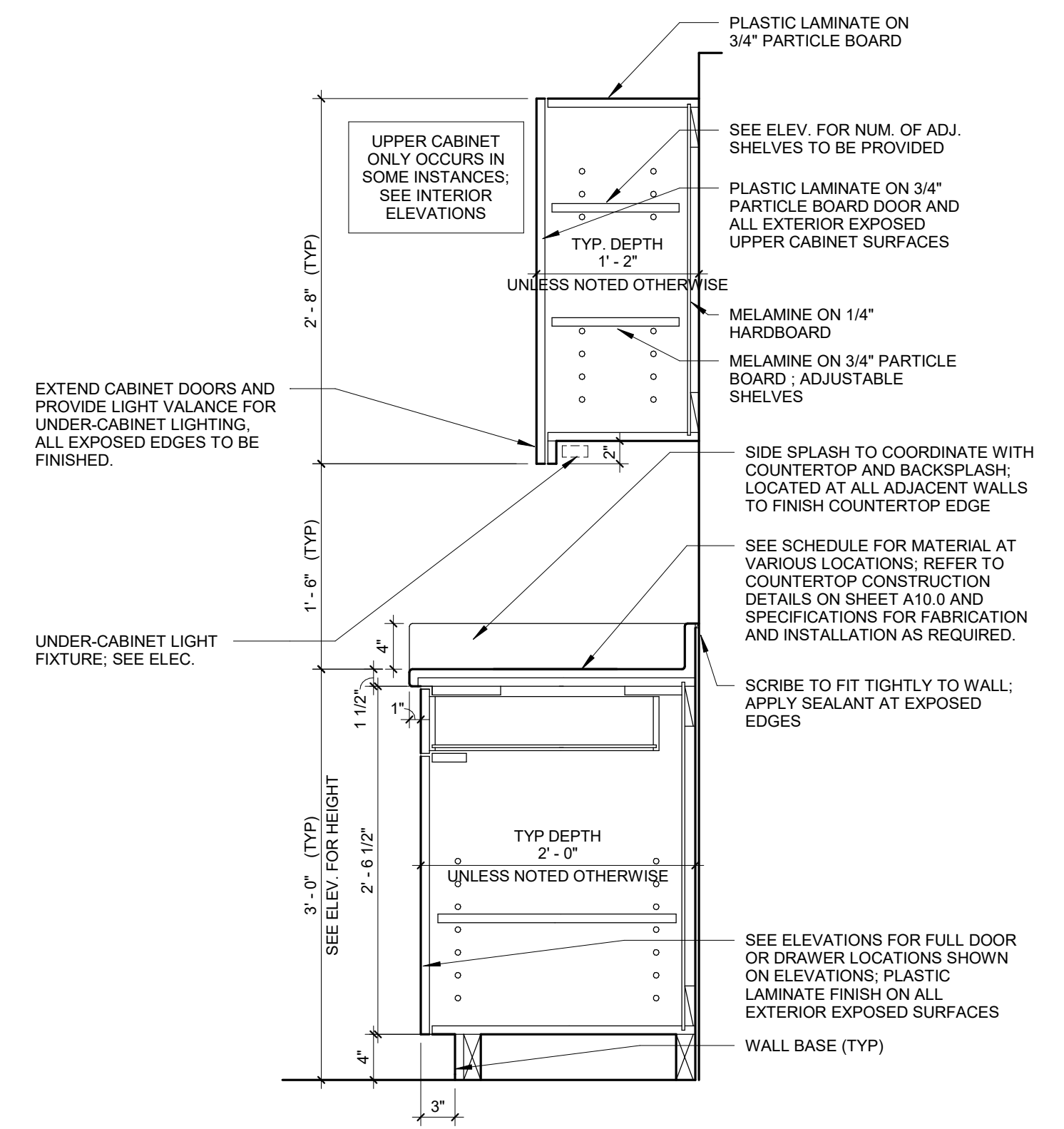
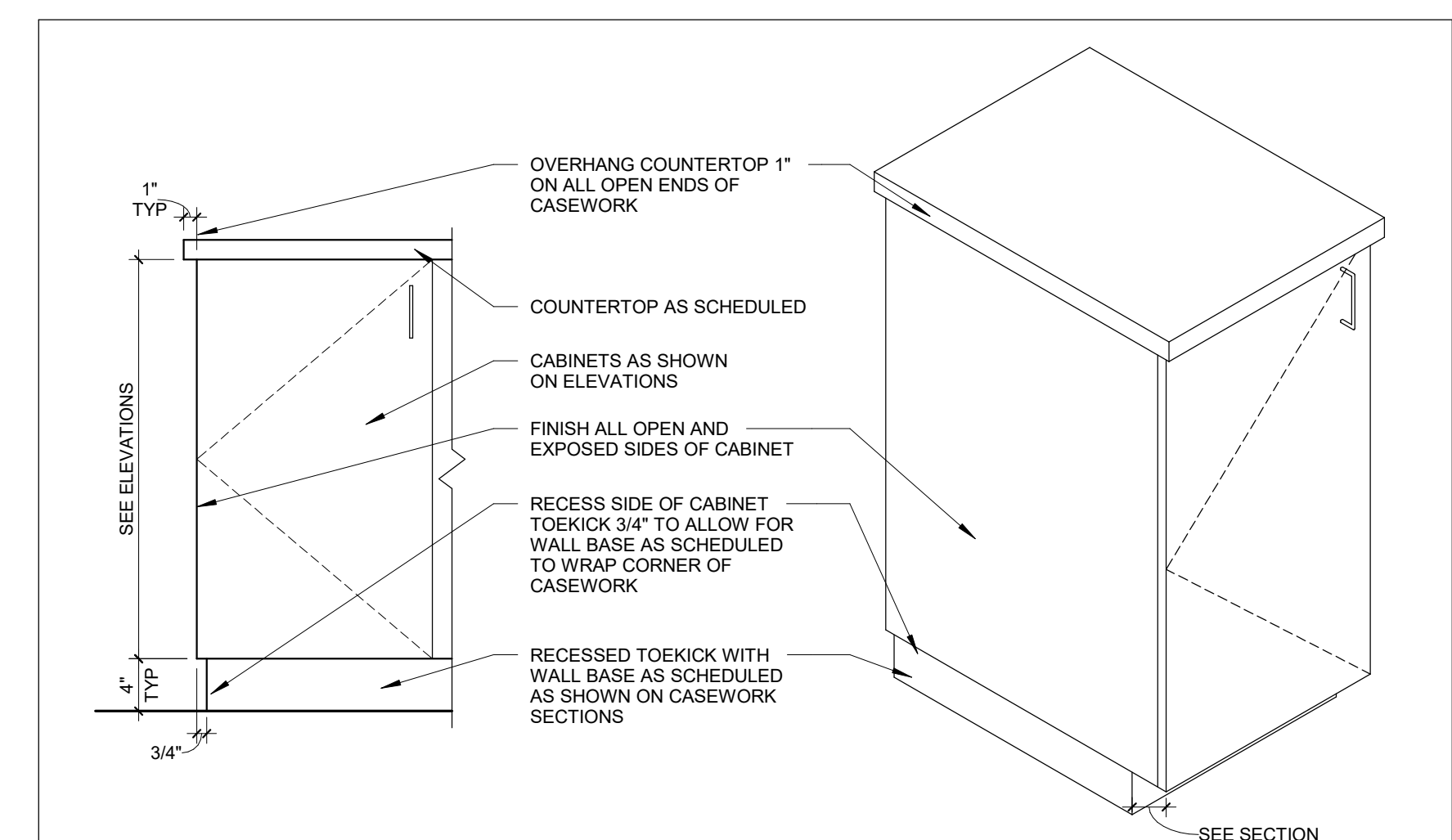
**COUNTERTOP CONSTRUCTION DETAILS (TYP)**



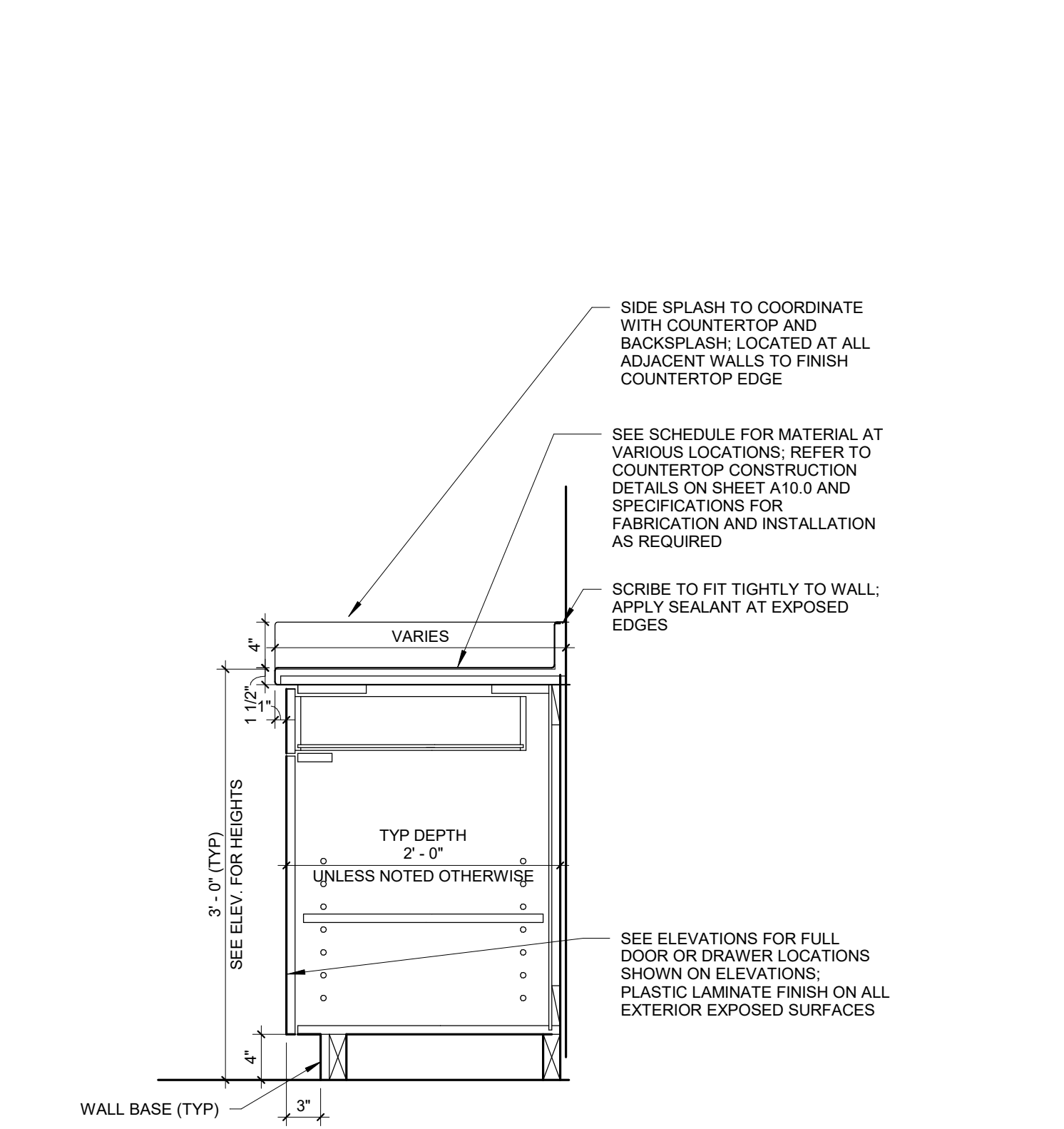
**VALANCE DETAIL**



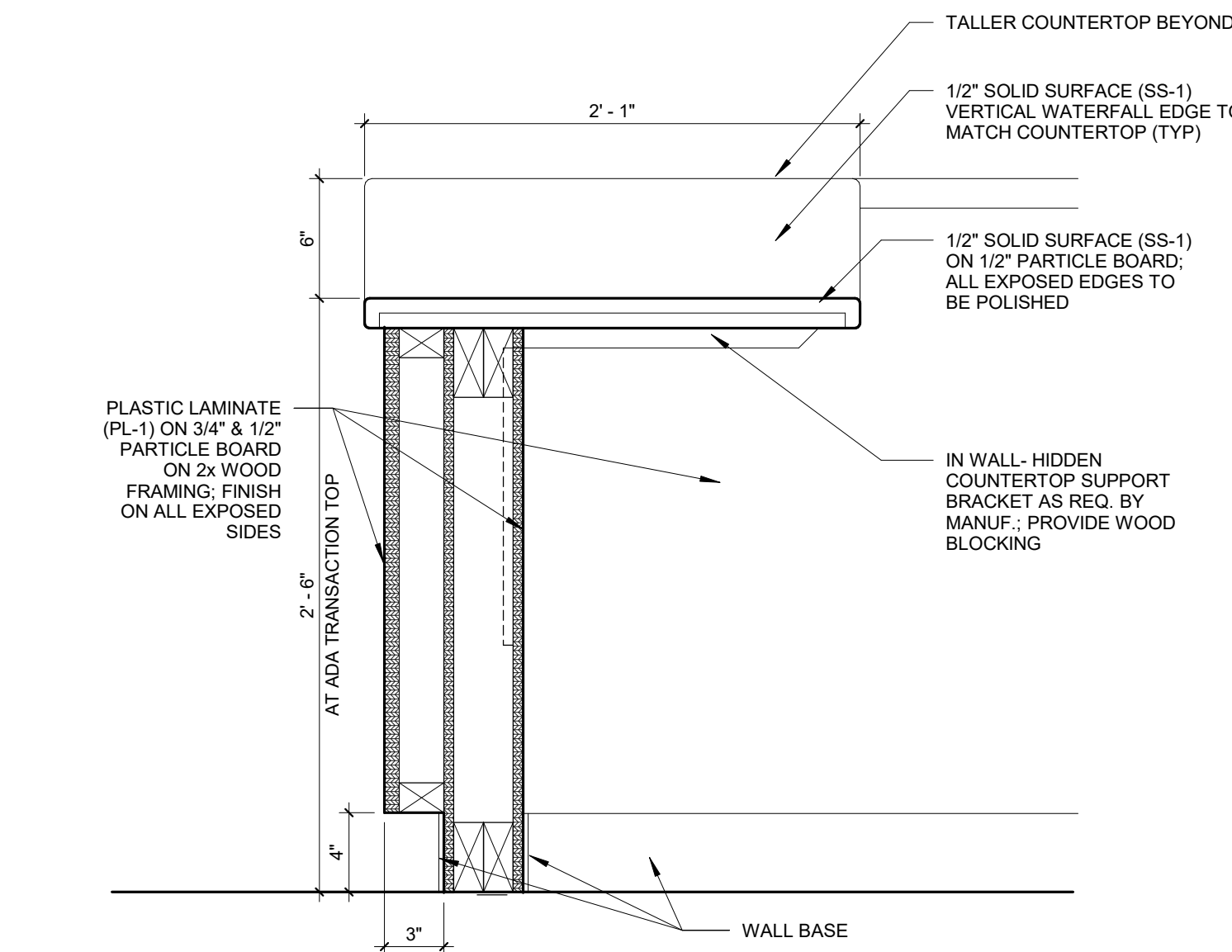
**CABINETS/CASEWORK OPEN END DETAIL (TYP)**



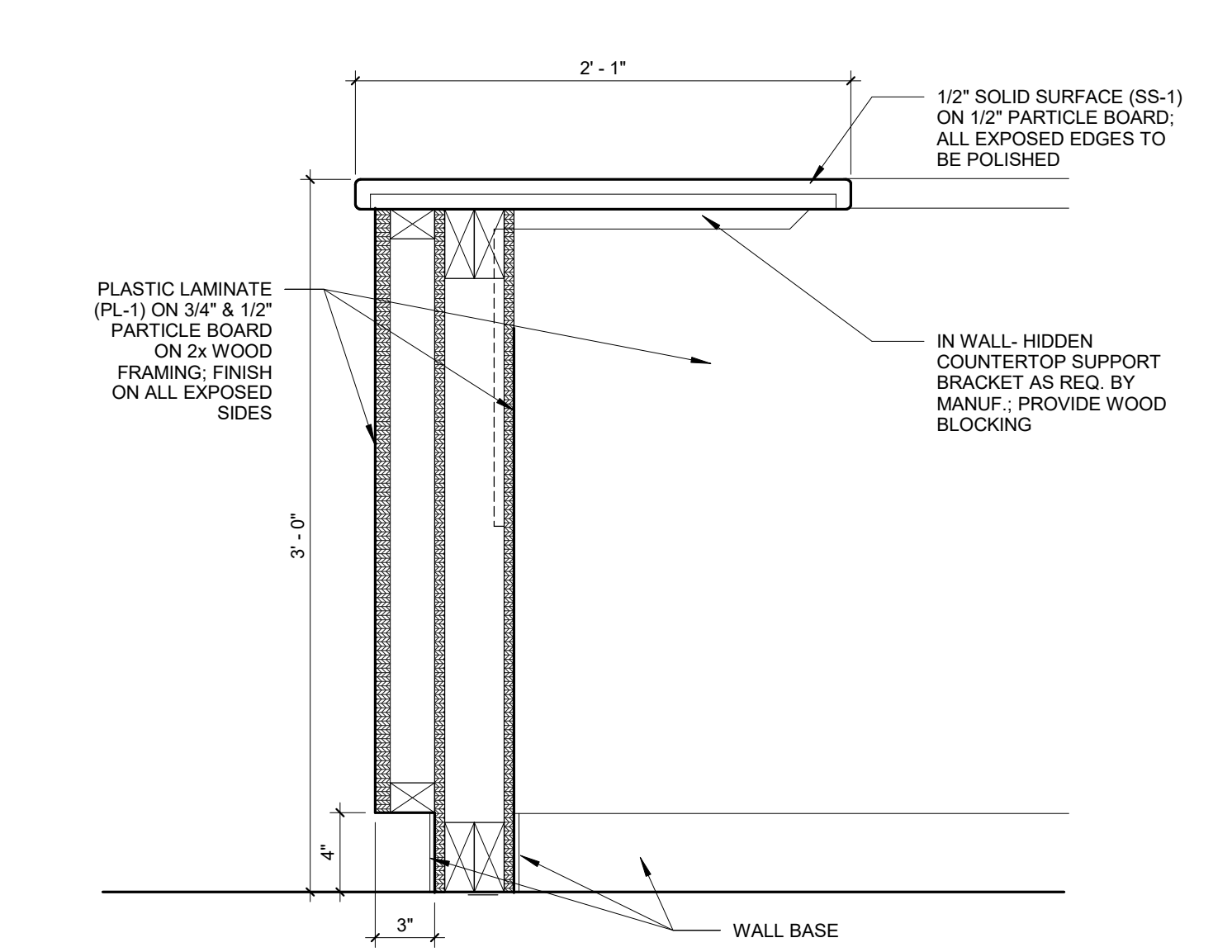
**1 CABINET SECTION**  
SCALE: 1" = 1'-0"



**2 CABINET SECTION**  
SCALE: 1" = 1'-0"



**3 RECEPTION DESK SECTION - ADA TRANSACTION TOP**  
SCALE: 1 1/2" = 1'-0"



**4 RECEPTION DESK SECTION - TRANSACTION TOP**  
SCALE: 1 1/2" = 1'-0"

Revision/Issue	Date

Casework Sections and Details

Project Number: 2261  
Date: January 10, 2023

Copyright © 2023  
WILKINS Architecture | Design | Planning L.L.C.

Sheet Number:

**STRUCTURAL ABBREVIATIONS**

AB	ANCHOR BOLT	MEP	MECHANICAL, ELECTRICAL, PLUMBING
ACI	AMERICAN CONCRETE INSTITUTE	MAX	MAXIMUM
AISC	AMERICAN INSTITUTE OF STEEL CONSTRUCTION	MECH	MECHANICAL
ASTM	AMERICAN SOCIETY FOR TESTING AND MATERIALS	MFR	MANUFACTURER
ADD	ADDENDUM	MIN	MINIMUM
ADDL	ADDITIONAL	MISC	MISCELLANEOUS
ALT	ALTERNATE	MTL	METAL
ARCH	ARCHITECT	NDS	NATIONAL DESIGN SPECIFICATION
BP	BASE PLATE	NIC	NOT IN CONTRACT
BLDG	BUILDING	NTS	NOT TO SCALE
BRG	BEARING	OC	ON CENTER
BL	BRICK LEDGE	OSHA	OCCUPATIONAL SAFETY AND HEALTH ADMIN.
CIP	CAST IN PLACE CONSTRUCTION JOINT	OPNG	OPENING
CMU	CONCRETE MASONRY UNIT	OPP	OPOSITE
CL	CENTERLINE	PCI	PRECAST/PRESTRESSED CONCRETE INSTITUTE
CLR	CLEAR	PSI	POUNDS PER SQUARE INCH
CONC	CONCRETE	PSF	POUNDS PER SQUARE FOOT
CONN	CONNECTION	PCF	POUNDS PER CUBIC FOOT
CONST	CONSTRUCTION	PL	PLATE
CONT	CONTINUOUS	PLBG	PLUMBING
DL	DEAD LOAD	QTY	QUANTITY
DTL	DETAIL	RAD	RADIUS
DIA	DIAMETER	REF	REFERENCE
DIAG	DIAGONAL	REINF	REINFORCING
DIM	DIMENSIONS	REQ'D	REQUIRED
DWSGS	DRAWINGS	REV	REVISION
EA	EACH	SOE	STEEL DECK INSTITUTE
EOR	ENGINEER OF RECORD	SJ	STEEL JOIST INSTITUTE
ELEV	ELEVATION	SOG	SLAB ON GRADE
ELEC	ELECTRICAL	SCHED	SCHEDULE
EQ	EQUAL	SM	SIMILAR
EXT	EXTERIOR	SPA	SPACING/SPACES
FIN	FINISH	SPECS	SPECIFICATIONS
FNDN	FOUNDATION	STD	STANDARD
FT	FEET	STRUCT	STRUCTURAL
FT	FEET VERIFY		
GA	GAGE	TYP	TYPICAL
GALV	GALVANIZED	TOC	TOP OF CURB
GRZ	HORIZONTAL	TOS	TOP OF STEEL
HORZ	HORIZONTAL	TOW	TOP OF WALL
HT	HEIGHT	UNO	UNLESS NOTED OTHERWISE
IBC	INTERNATIONAL BUILDING CODE	VERT	VERTICAL
ICF	INSULATED CONCRETE FORM	w/	WITH
IN	INCHES	w/o	WITHOUT
INT	INTERIOR	WP	WORKPOINT
K	KIPS	WWF	WELDED WIRE FABRIC
L	ANGLE		
LL	LIVE LOAD		
LH	LONG LEG HORIZONTAL		
LLV	LONG LEG VERTICAL		
LB	POUND		
LSH	LONG SIDE HORIZONTAL		
LSV	LONG SIDE VERTICAL		
LONG	LONGITUDINAL		
LT GA	LIGHT GAGE		

**STRUCTURAL NOTES**

**GENERAL**  
 CONTRACT DOCUMENTS ARE INTENDED TO CONVEY THE STRUCTURAL DESIGN INTENT. THEY REPRESENT THE STRUCTURAL SYSTEMS, MATERIALS USED, TYPICAL DETAILS AND SPECIFIC DETAILS OF THE COMPLETED STRUCTURE. DETAILS MAY NEED TO BE ADAPTED BY THE CONTRACTOR, SUBCONTRACTOR, OR SUPPLIER IN SOME LOCATIONS. ANY DIVERGENCE FROM THESE DRAWINGS SHALL BE APPROVED BY THE ARCHITECT AND EOR AND SHALL BE CONSISTENT WITH THE DESIGN INTENT SHOWN.

- GENERAL CONTRACTORS RESPONSIBILITIES INCLUDE BUT ARE NOT LIMITED TO:
  - DETERMINE CONSTRUCTION SEQUENCE AND PROCEDURES.
  - PROVIDE A SAFE JOBSITE FOR WORKERS, SUBCONTRACTORS, TESTING AND INSPECTION AGENCIES, AND DESIGN PROFESSIONALS.
  - DESIGN AND INSTALLATION OF ALL SHORING AND TEMPORARY BRACING NECESSARY TO ENSURE THE SAFETY OF THE BUILDING, ITS COMPONENTS AND OCCUPANTS.
  - VERIFY AND COORDINATE DIMENSIONS AND ELEVATIONS SHOWN IN THE DRAWINGS. IF DISCREPANCIES EXIST, THE CONTRACTOR SHALL NOTIFY THE ARCHITECT PRIOR TO COMMENCING THAT PROCEDURE.
  - COORDINATE THE LOCATION AND LOADS OF MECHANICAL AND OTHER EQUIPMENT WITH THE STRUCTURE. OPENINGS AND EQUIPMENT SHOWN IN THE DRAWINGS ARE REPRESENTATIVE OF EQUIPMENT THAT MAY BE USED ON THIS PROJECT AND WHAT WAS USED AS THE BASIS FOR THE STRUCTURAL DESIGN AND BIDDING PURPOSES. DEVIATIONS SHALL BE APPROVED BY THE ARCHITECT AND EOR.
  - PROTECT FOUNDATIONS FROM FROST DURING CONSTRUCTION. REFER TO SOILS REPORT FOR FURTHER INFORMATION.
- IF CONFLICTS EXIST IN THE CONSTRUCTION DOCUMENTS THE STRICTEST PROVISIONS SHALL GOVERN.
- DETAILS SHOWN IN TYPICAL LOCATIONS SHALL APPLY TO ALL LOCATIONS WITH THE SAME OR SIMILAR CONDITIONS.

**REINFORCED CONCRETE**

- REFER TO DESIGN DATA.
- ACI FIELD REFERENCE MANUAL, SP-15 SHALL BE FOLLOWED. AT LEAST ONE COPY SHALL BE AVAILABLE ON SITE DURING CONCRETING OPERATIONS.
- PROVIDE CONTROL JOINTS IN SLAB ON GRADE AS INDICATED BY THE DRAWINGS. IF NO CONTROL JOINTS ARE SHOWN, PROVIDE CONTROL JOINTS NO FURTHER THAN 36 TIMES THE SLAB THICKNESS (4" THICK SLAB = 12'-0"). CONTROL JOINTS SHALL PROVIDE A SQUARE SECTION WITH THE LENGTH NO GREATER THAN 1 1/2 TIMES THE WIDTH.
- UNLESS NOTED OTHERWISE IN THE CONTRACT DOCUMENTS, ALL CIP AND CMU WALLS SHALL BE CONNECTED TO THE FOUNDATION WITH DOWELS THAT MATCH THE WALL REINFORCING SIZE AND SPACING.
- REFER TO SCHEDULES FOR TYPICAL REINFORCING DETAILS.
- REBAR SHALL BE SPLICED TO PROVIDE A MINIMUM LAP AS FOLLOWS. TOP BARS ARE HORIZONTAL REINFORCING THAT IS PLACED WITH 12" OR MORE OF CONCRETE BELOW THE BAR.

BAR SIZE	#3	#4	#5	#6	#7	#8	#9	#10	#11
TOP BAR	24"	32"	40"	48"	30"	80"	91"	102"	113"
TYP BAR	19"	25"	31"	37"	54"	62"	70"	79"	87"

- PROVIDE CONCRETE COVER FOR ALL REINFORCING AS FOLLOWS:
  - CAST AGAINST AND PERMANENTLY EXPOSED TO EARTH ..... 3"
  - EXPOSED TO EARTH OR WEATHER ..... 3"
  - INTERIOR EXPOSURE ..... 1 1/2"
  - BEAMS & COLUMNS ..... 1 1/2"
  - WALLS ..... 1 1/2"
  - SLABS AND JOISTS ..... 3/4"
- PROVIDE AN ADDITIONAL 2-#5 BARS AROUND ALL RECTANGULAR OPENINGS IN CIP WALLS AND 1-#5 BAR AROUND ALL RECTANGULAR OPENINGS IN CIP SLABS. ADDITIONAL BAR SHALL EXTEND 24" MINIMUM BEYOND THE OPENING.
- ALL REBAR, EXCLUDING DOWELS INTO FOUNDATION, TO BE PROPERLY CHAIRED AND SECURED PRIOR TO PLACING OF CONCRETE. WET SETTING OF REBAR IS NOT PERMITTED.

**METAL DECK**

- REFER TO DESIGN DATA.
- GALVANIZE ALL DECKING, UNLESS OTHERWISE INDICATED BY THE ARCHITECT. PROVIDE MANUFACTURER'S STANDARD RUST INHIBITIVE PAINT ON ALL OTHER ACCESSORIES.
- ALL METAL DECK OPENINGS SHALL BE REINFORCED. FOR OPENINGS LESS THAN 6" REINFORCE WITH 2 @ 20 GAGE, 2-4" STRIP EACH SIDE OF OPENING WELDED TO TOP OF DECK. FOR OPENINGS GREATER THAN 6", REFER TO METAL DECK ATTACHMENT SCHEDULE FOR DETAILS.

**STRUCTURAL LIGHT GAGE FRAMING**

- REFER TO DESIGN DATA & LINTEL SCHEDULE.
- ALL HORIZONTAL LOAD BEARING MEMBERS, SUCH AS BEAMS AND JOIST, SHALL BE CONSTRUCTED OUT OF UNPUNCHED MEMBERS.
- UNLESS NOTED OTHERWISE, METAL STUD BEARING WALLS SHALL HAVE WALL STUDS ALIGNED WITH JOIST OR RAFTER ABOVE.
- LOAD BEARING WALLS SHALL BE SHEATHED WITH GYPSUM WALLBOARD OR OSB SHEATHING ON A MINIMUM OF ONE SIDE. ATTACH SHEATHING TO STUDS W/ #10 SCREWS @ 8" OC AT PANEL EDGES AND 1'-0" OC IN THE FIELD MINIMUM.
- ALL STUDS IN EXTERIOR WALLS SHALL BE SHEATHED WITH GYPSUM WALLBOARD OR OSB SHEATHING ON BOTH SIDES, UNLESS NOTED OTHERWISE. ATTACH SHEATHING TO STUDS W/ #10 SCREWS @ 8" OC AT PANEL EDGES AND 1'-0" OC IN THE FIELD MINIMUM.
- UNLESS NOTED OTHERWISE, NON-BEARING WALLS SHALL HAVE DEFLECTION TRACKS OR SLIP CONNECTIONS TO ALLOW 3/4" DEFLECTION OF STRUCTURE ABOVE.
- UNLESS NOTED OTHERWISE, FLOOR OR ROOF SHEATHING SHALL BE ATTACHED TO FLOOR JOIST OR ROOF RAFTERS W/ #10 SCREWS @ 8" OC AT PANEL EDGES & 1'-0" OC IN THE FIELD MINIMUM.
- CONTINUE ALL ADDITIONAL STUD FRAMING BELOW BEAMS OR GRIDERS TO THE FOUNDATION.

**STRUCTURAL LUMBER**

- REFER TO DESIGN DATA.
- NAILING OF MEMBERS SHALL COMPLY WITH THE "FASTENING TABLE" CONTAINED IN IBC SECTION 2304.
- UNLESS NOTED OTHERWISE, NAILS CONNECTING FRAMING MEMBERS SHALL BE .131" x 3 1/2 NAILS. NAILS CONNECTING SHEATHING TO FRAMING MEMBERS SHALL BE .131" x 2 1/2 NAILS.
- ALL CONNECTORS, NAILS, BOLTS, OR OTHER FASTENERS, USED WITH ALL TREATED LUMBER AND PLYWOOD, SHALL BE HOT DIPPED GALVANIZED OR STAINLESS STEEL ALLOYS 304 OR 316.
- GLUE FLOOR SHEATHING TO FRAMING AND TONGUE GROVE JOINTS WITH ADHESIVES MEETING APA SPECIFICATIONS AFG-01 AND APPLIED IN ACCORDANCE WITH MANUFACTURER'S RECOMMENDATIONS.

**SPECIAL INSPECTION**

- SPECIAL INSPECTIONS TO BE PERFORMED BY A LICENSED STRUCTURAL ENGINEER OR CERTIFIED SPECIAL INSPECTOR WHO HAS BEEN CERTIFIED IN THE MATERIAL BEING INSPECTED.
- SPECIAL INSPECTION AND TESTING IS REQUIRED ON THIS PROJECT. THE FOLLOWING ENTITIES SHALL PERFORM THE FOLLOWING:
  - THE OWNER: SHALL HIRE A QUALIFIED SPECIAL INSPECTOR/TESTING AGENCY AS INDICATED BELOW.
  - THE GENERAL CONTRACTOR: SHALL COORDINATE THE REQUIRED SPECIAL INSPECTIONS WITH THE SPECIAL INSPECTOR AND SUB CONTRACTOR PERFORMING THE WORK.
  - THE SPECIAL INSPECTOR: SHALL INSPECT THE REQUIRED WORK AND SUBMIT A REPORT TO THE ARCHITECT/STRUCTURAL ENGINEER, AND THE BUILDING OFFICIAL AS REQUIRED BY THE BUILDING OFFICIAL. THE REPORT SHALL INDICATE THE WORK WHICH WAS INSPECTED, THE WORK WHICH MET THE DESIGN SPECIFICATIONS, AND WORK WHICH DID NOT MEET THE DESIGN SPECIFICATIONS. REMEDIAL ACTION REQUIRED BY THE STRUCTURAL ENGINEER OF RECORD, AND REMEDIAL ACTION COMPLETED. ONCE THE INSPECTIONS ARE COMPLETE, A FINAL STATEMENT OF SPECIAL INSPECTION SHALL BE SUBMITTED INDICATING THAT THE CONSTRUCTION MET THE REQUIRED SPECIFICATIONS, OR ANY NON-COMPLIANCE WHICH EXISTS.
- SCOPE AND FREQUENCY OF INSPECTIONS SHALL BE AS PER SPECIFICATIONS OR AS MINIMUM PER REFERENCED STANDARDS.
- THE FOLLOWING TABLE PROVIDES A GENERAL OVERVIEW OF THE REQUIRED INSPECTIONS. REFER TO REFERENCED CODE SECTIONS FOR SPECIFIC REQUIREMENTS.

MATERIAL (IBC2018)	REFERENCED STANDARD	APPLIES TO	NOTES
STEEL (1705.2)	ASCS 360-16	WELDING HIGH STRENGTH BOLTING STEEL FRAME DETAILS BRACING, STIFFENING, MEMBER LOCATIONS, AND CONNECTIONS	SHOP FABRICATION SEE 1704.2.5
CONCRETE (1705.3)	IBC TABLE AG-318.14	REINFORCEMENT MATERIAL WELDING AND PLACEMENT ANCHORAGES CAST AND PRE-INSTALLED DESIGN MIX AND INSTITU STRENGTH PLACEMENT / ERECTION / CURING	EXCLUDES: SLAB ON GRADE SIDEWALKS AND PAVING
SOILS (1705.6)	IBC TABLE	SITE PREPARATION, COMPACTED FILL	
FABRICATIONS (1705.10)	NA	OFF PREMISES FABRICATIONS	
WIND (1705.11)	NOT REQUIRED	NOT REQUIRED	
SEISMIC (1705.12)	NOT REQUIRED	NOT REQUIRED	

**DESIGN DATA**

**GOVERNING CODE:** 2018 INTERNATIONAL BUILDING CODE

**FOUNDATION PARAMETERS:**  
 SOIL INVESTIGATION PERFORMED BY: MID-STATE ENGINEERING & TESTING REPORT NUMBER: 200-101-29  
 MINIMUM FOOTING DEPTH FOR FROST (BELOW FINISH GRADE): 42 IN  
 ALLOWABLE SOIL BEARING PRESSURE: CONTINUOUS FOOTINGS: 2500 PSF PAD FOOTINGS: 2500 PSF

THE CONTRACTOR SHALL COMPLY WITH THE RECOMMENDATIONS OF THE REPORT. THE CONTRACTOR SHALL NOTIFY THE GEOTECHNICAL ENGINEER AFTER EXCAVATION TO DETERMINE IF THE CONDITIONS COMPLY WITH THE SOILS REPORT. EXCAVATIONS SHALL BE TESTED BY AN APPROVED TESTING LABORATORY PRIOR TO PLACING CONCRETE.

**DESIGN LOADS:**  
 BUILDING CATEGORY: II  
 ROOF LIVE LOAD: MINIMUM LIVE LOAD: 20 PSF MECH. UNITS: REFER TO PLAN  
 SNOW: GROUND SNOW (P<sub>s</sub>): 25 PSF FLAT ROOF SNOW (P<sub>f</sub>): 25 PSF SNOW EXPOSURE (C<sub>e</sub>): 1.0 THERMAL FACTOR (C<sub>t</sub>): 1.1 SNOW IMPORTANCE FACTOR (I<sub>s</sub>): 1.0 UNBALANCED SNOW LOADS: ASCE 7-10 SECTION 7.6 SNOW DRIFTING: REFER TO PLAN  
 FLOOR LIVE LOAD: MEZZANINE: 40 PSF  
 WIND: ULTIMATE WIND SPEED: 111 MPH ASD WIND SPEED: 86 MPH EXPOSURE: C INTERNAL PRESSURE COEFFICIENT: 0.18 NET UP/LIFT ON JOIST: 15 PSF  
 SEISMIC: SEISMIC IMPORTANCE FACTOR (I<sub>s</sub>): 1.0 SITE CLASS: D S<sub>1</sub>: 0.082 S<sub>2</sub>: 0.037 S<sub>3</sub>: 0.087 S<sub>4</sub>: 0.059 SEISMIC DESIGN CATEGORY: A

**MATERIAL PROPERTIES:**

**CONCRETE:**  
 28 DAY CONCRETE STRENGTHS (MINIMUM): f<sub>c</sub> w/c  
 FOOTINGS: 4000 PSI 0.48  
 SLAB ON GRADE: 3000 PSI 0.50  
 SUPPORTED SLABS AND STOODS: 4000 PSI 0.48  
 WALLS: 4000 PSI 0.48  
 REINFORCING BARS: ASTM A615 GRADE 60  
 WELDED BARS AND ANCHORS: ASTM A706 GRADE 60  
 WELDED WIRE FABRIC: A185 CSA G30.5

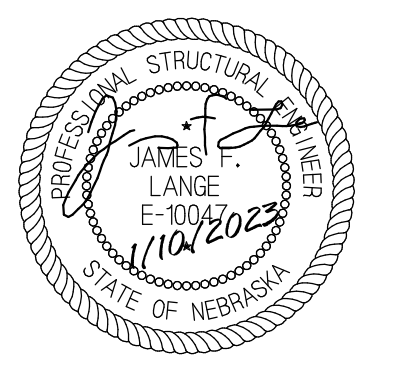
**STRUCTURAL STEEL:**  
 W SHAPES: ASTM A992  
 ROLLED SHAPES & PLATES: ASTM A36  
 TUBES: ASTM A500 GRADE B  
 PIPES: ASTM A53 TYPE E OR S  
 WELDING ELECTRODES: E70XX  
 BOLTS: ASTM A325  
 ANCHOR RODS: ASTM F1554, GRADE 55  
 EXPANSION BOLTS: HILTI KWIK BOLT 3 OR APPROVED EQUIV.  
 ADHESIVE ANCHORS: HILTI HIT-HY 200 (HY 270 MASONRY) OR APPROVED EQUIV. SIMPSON TITEN HD  
 SCREW ANCHORS: HILTI HIT-HY-4  
 SLEEVE ANCHORS: HILTI HLC OR APPROVED EQUIV.  
 FASTENERS IN CONTACT W/ TREATED LUMBER: 304 OR 316 STAINLESS, GALVANIZED ASTM F2209 OR A193 OR APPROVED EQUIV.

**METAL DECK:**  
 FORM DECK (STRUCT STOODS): 1 1/2" TYPE "C" 20 GAGE, GALV

**STRUCTURAL LIGHT GAGE FRAMING:**  
 STUDS: ASTM A653  
 JOISTS (UNPUNCHED): ASTM A653  
 TRACK: ASTM A653  
 YIELD:  
 (33 & 43 MIL): 33 KSI  
 (54 MIL & ABOVE): 50 KSI  
 GALVANIZING: G40  
 DEF. CLIP:  
 (33 & 43 MIL): 3 1/2" 14 GA. FAST CLIP SLIDE CLIP (FCS) MIN. 2-157 PAF TO STRUCTURE  
 (54 MIL & ABOVE): 5 1/2" 12 GA. FAST CLIP SLIDE CLIP (FCS) MIN. 4-157 PAF TO STRUCTURE

**STRUCTURAL LUMBER:**  
 LOAD BEARING & EXT WALLS: STUD GRADE #3 OR BETTER SPF  
 LINTELS, JOIST & PLATES: #2 OR BETTER HEM FIR OR SPF  
 LUMBER IN CONTACT W/ CONCRETE OR MASONRY: ACQ TREATED FOR GROUND CONTACT #2 OR BETTER SOUTHERN PINE  
 MC (MAX): F<sub>y</sub> = 3100 PSI  
 MICROLAM BEAMS: F<sub>y</sub> = 285 PSI  
 E = 2000 PSI  
 OSB FLOOR SHEATHING: 3/4" T&G APA RATED STUD/FLOOR 24" SPAN RATING  
 OSB ROOF SHEATHING: 5/8" EXPOSURE 1 40/20  
 OSB WALL SHEATHING: 1/2" EXPOSURE 1 20/16  
 FASTENERS: REFER TO GENERAL NOTES

FOUNDATION SIZES SHOWN ARE PRELIMINARY AND MUST BE VERIFIED BY EOR ONCE FINAL PEMB REACTIONS HAVE BEEN SUBMITTED



CITY OF LEXINGTON  
 LEXINGTON RACQUET CENTER  
 Lexington, NE

Revision/Issue	Date

STRUCTURAL NOTES & DESIGN DATA

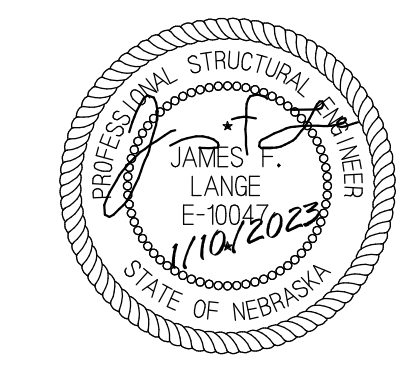
Project Number: 2261  
 Date: January 5, 2022

Copyright © 2023  
 WILKINS Architecture | Design | Planning L.L.C.

Sheet Number:

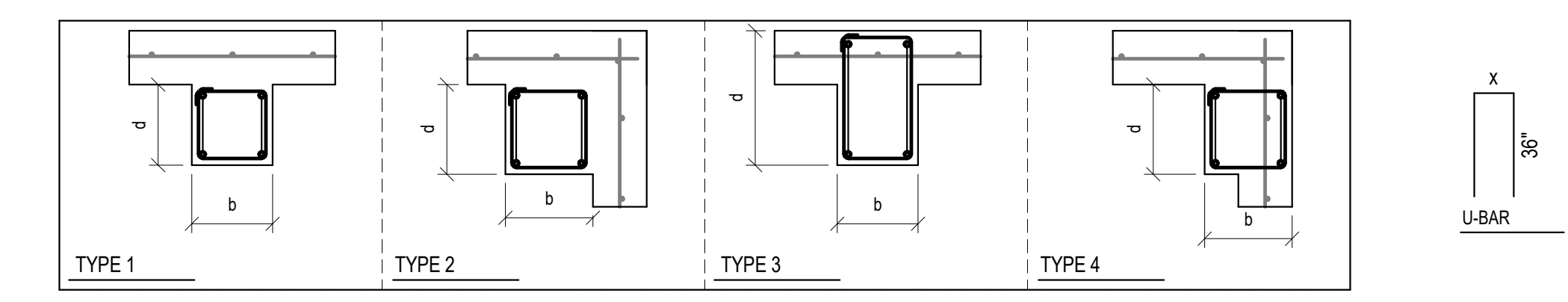
S1.1





PIER MARK	TYPE	WIDTH (b)	DEPTH (d)	VERTICAL REINFORCING	U-BAR WIDTH 'X'	TIE SIZE	TIE SPACING
P-1	1	16"	16"	2-#6 U-BARS	11"	#3	3 @ 3' OC
P-2	2	12"	14"	2-#6 U-BARS	9"	#3	3 @ 3' OC
P-3	3	12"	16"	2-#6 U-BARS	11"	#3	3 @ 3' OC
P-4	4	12"	12"	2-#6 U-BARS	7"	#3	3 @ 3' OC

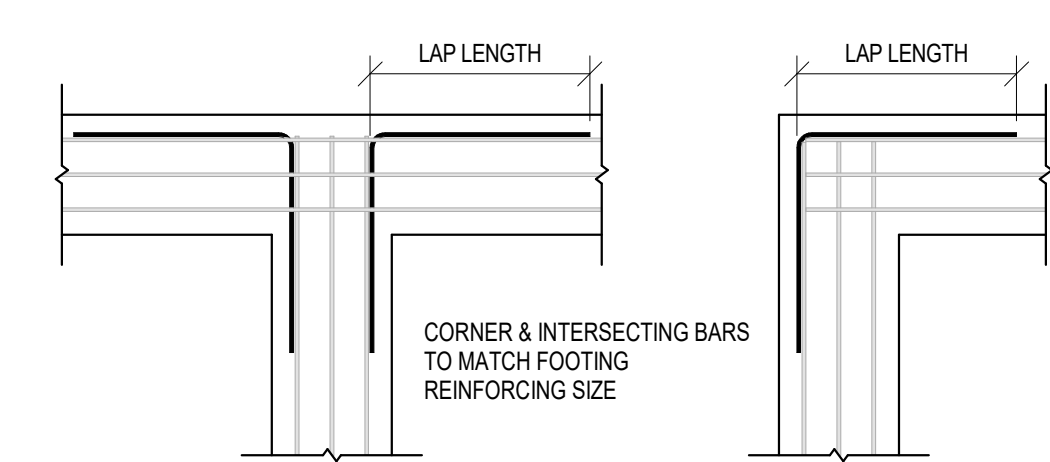
NOTES:  
1. PROVIDE 1 1/2" CLR SPACING FOR ALL TIES  
2. CONTINUE WALL STEEL THRU ALL PILASTERS



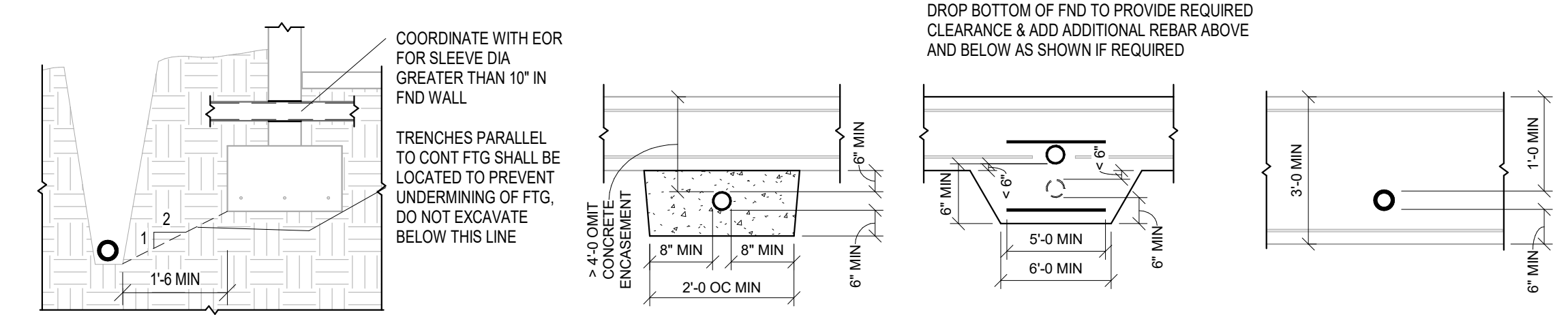
**PIER AND PILASTER SCHEDULE**

CONTINUOUS FOOTING SCHEDULE			
MARK	WIDTH	DEPTH	REINFORCING
CF-1	1'-0"	3'-4"	2-#6 TOP & BOTTOM
CF-2	1'-4"	3'-4"	2-#6 TOP & BOTTOM

PAD FOOTING SCHEDULE				
MARK	WIDTH	LENGTH	DEPTH	REINFORCING
F-1	3'-0"	3'-0"	3'-4"	5-#6 EA WAY TOP & BOTTOM
F-2	6'-0"	6'-0"	3'-4"	6-#6 EA WAY TOP & BOTTOM



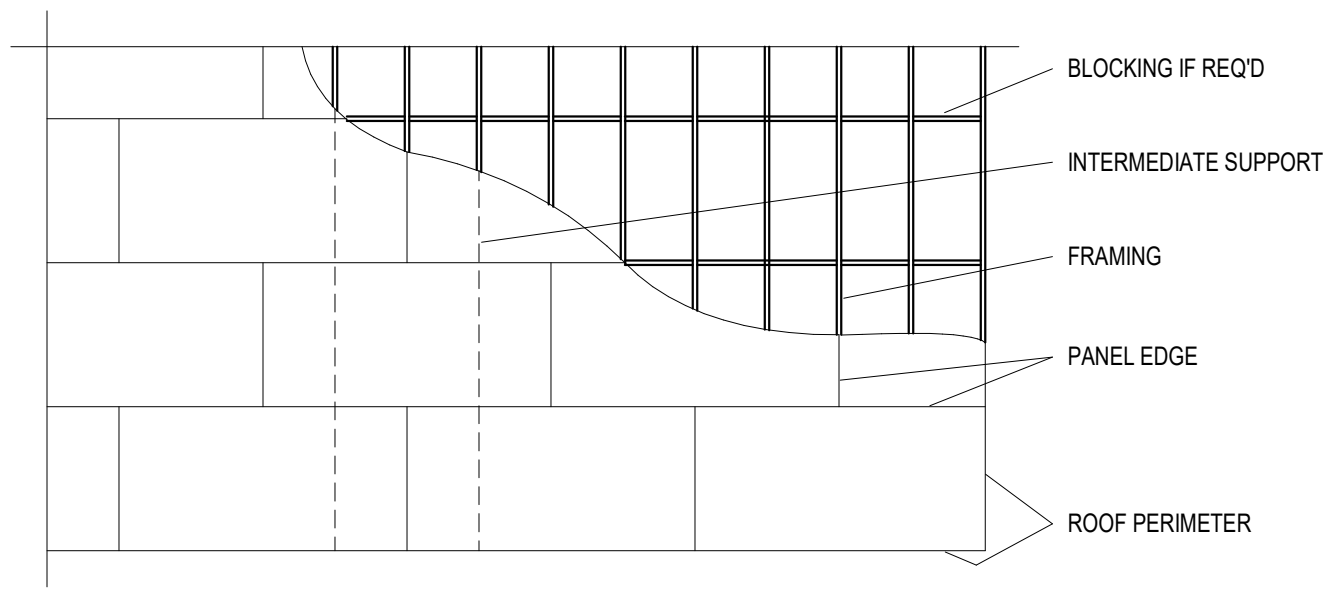
**FOOTING SCHEDULES**



NOTE: PROVIDE 1 1/2" CLR AROUND ALL PIPES. COORDINATE ANY SLEEVES LARGER THAN 10" w/ EOR  
**TYPICAL FOOTING DETAILS @ UNDERGROUND PLUMBING**

LOCATION	SHEATHING	NAILING SPACING		
		ROOF PERIMETER	PANEL EDGES	BLOCKING
FLOOR	3/4" OSB	6" OC	6" OC	NOT REQ'D

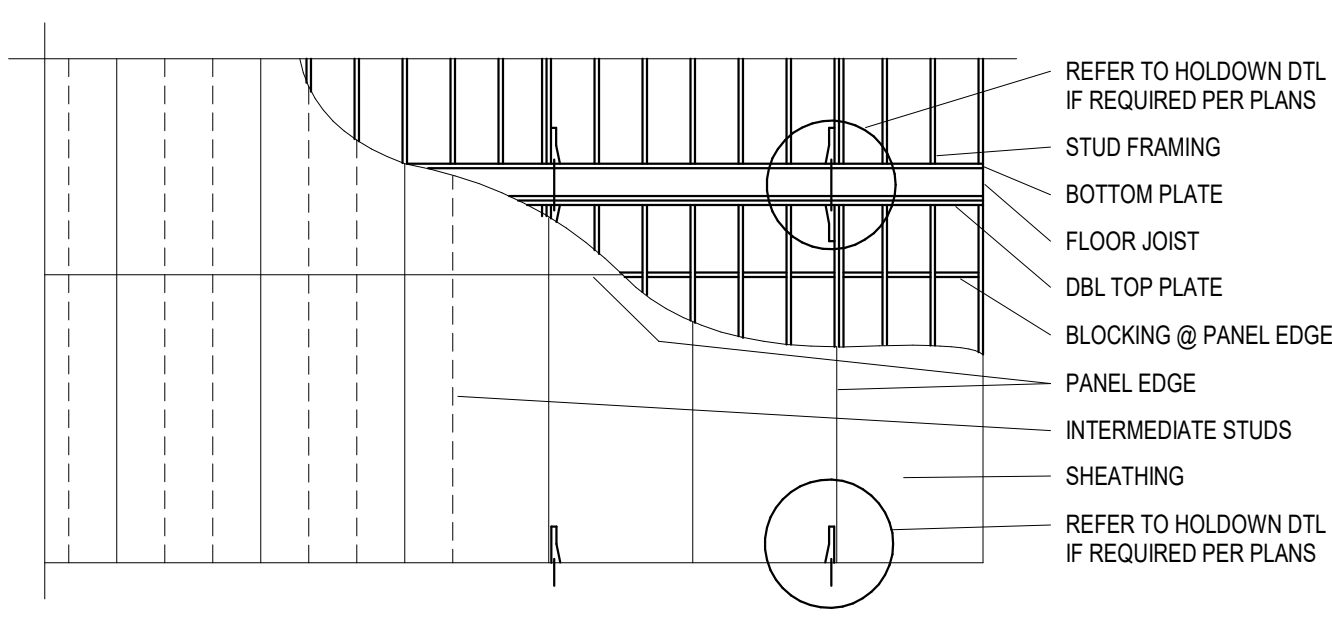
- NOTES:  
1. FASTENERS SHALL BE 131" x 2 1/2" NAILS  
2. NAIL SHEATHING TO ALL INTERMEDIATE FRAMING @ 12" OC  
3. PROVIDE 1/8" JOINT BETWEEN ALL PANELS FOR EXPANSION  
4. FOR BUILDINGS LONGER THAN 80' PROVIDE TEMPORARY EXPANSION IN THE FLOOR SHEATHING @ 8'0" OC (SEE DETAIL UNLESS ALTERNATE METHOD IS APPROVED)



**ROOF AND FLOOR SHEATHING SCHEDULE**

LOCATION	SHEATHING	NAILING SPACING		BOT/TOP PLATE ATTACHMENT	
		PANEL EDGES	BLOCKING	FOUNDATION	FRAMING
TYPICAL	1/2" OSB	6" OC	REQ'D	NA	4" OC

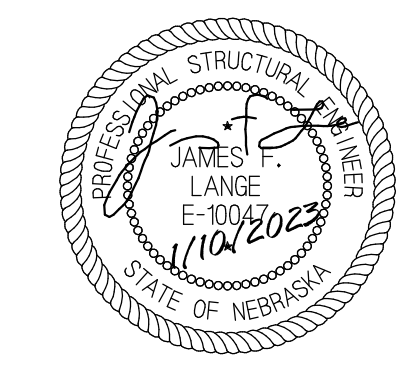
- NOTES:  
1. FASTENERS SHALL BE 131" x 2 1/2" NAILS @ WOOD SHEATHING  
2. FASTENERS @ GYP WALLBOARD SHALL BE #6 x 1 1/4" DRYWALL SCREW  
3. ATTACH SHEATHING TO ALL INTERMEDIATE FRAMING @ 12" OC



**SHEAR WALL SHEATHING SCHEDULE**

**CITY OF LEXINGTON  
LEXINGTON RACQUET CENTER  
Lexington, NE**

Revision/Issue	Date



**CITY OF LEXINGTON  
LEXINGTON RACQUET CENTER  
Lexington, NE**

Revision/Issue	Date
----------------	------

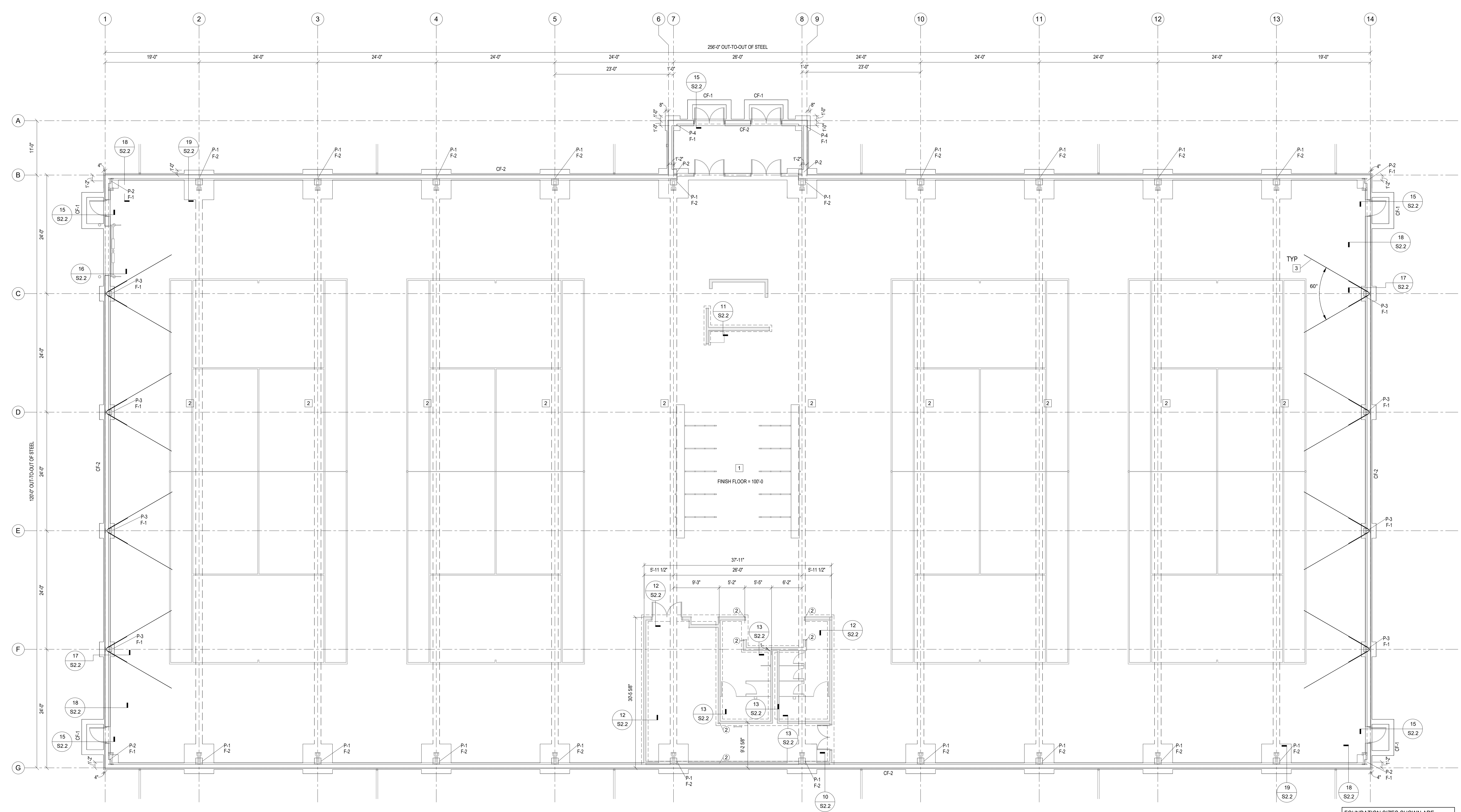
**FOUNDATION PLAN**

Project Number: 2261  
Date: January 5, 2022

Copyright © 2023  
WILKINS Architecture | Design | Planning | L.L.C.

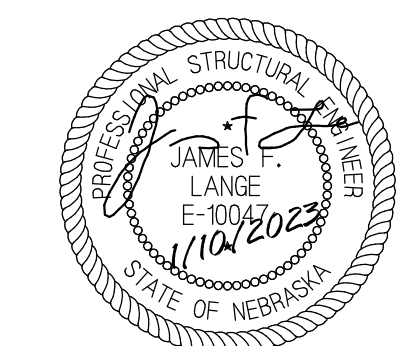
Sheet Number:  
**S2.1**

- GENERAL FOUNDATION PLAN NOTES**
- REFER TO DESIGN DATA, SCHEDULES & TYP DETAILS
  - INDICATES KEYNOTE REFER TO PLAN FOR LOCATION
  - INDICATES NUMBER OF BEARING STUDS REFER TO PLAN FOR LOCATION
  - TOP OF FOOTING = 99'-4"  
TOP OF PIER = 100'-0"  
UNLESS NOTED OTHERWISE
  - COLUMN SCHEDULE GUIDE:  
C-X COLUMN MARK  
BP-X BASE PLATE MARK  
P-X PIER MARK  
XX-X TOP OF PIER  
F-X FOOTING MARK  
XX-X TOP OF FOOTING
  - METAL BUILDING ANCHOR BOLT SCHEDULE
- | SIZE | EMBED INTO FND |
|------|----------------|
| 1/2" | 15"            |
| 5/8" | 15"            |
| 3/4" | 18"            |
| 7/8" | 21"            |
| 1"   | 24"            |
- ANCHOR BOLTS SHALL BE ASTM F1554, GRADE 55 STRAIGHT THREADED ROD w/ NUT TACK WELDED TO EMBED END
- FOUNDATION KEYNOTES**
- 4" CIP SLAB ON PROPERLY PREPARED SUBGRADE REFER TO SOILS REPORT. REINFORCE w/ 6x6 W1.4WV1.4 WWF. REFER TO ARCH FOR VAPOR BARRIER
  - 1'-4x8" THICKENED SLAB REINF w/ 4-#5 LAP w/ U-BARS EA END
  - #5x15'-0 LAP w/ V-BAR

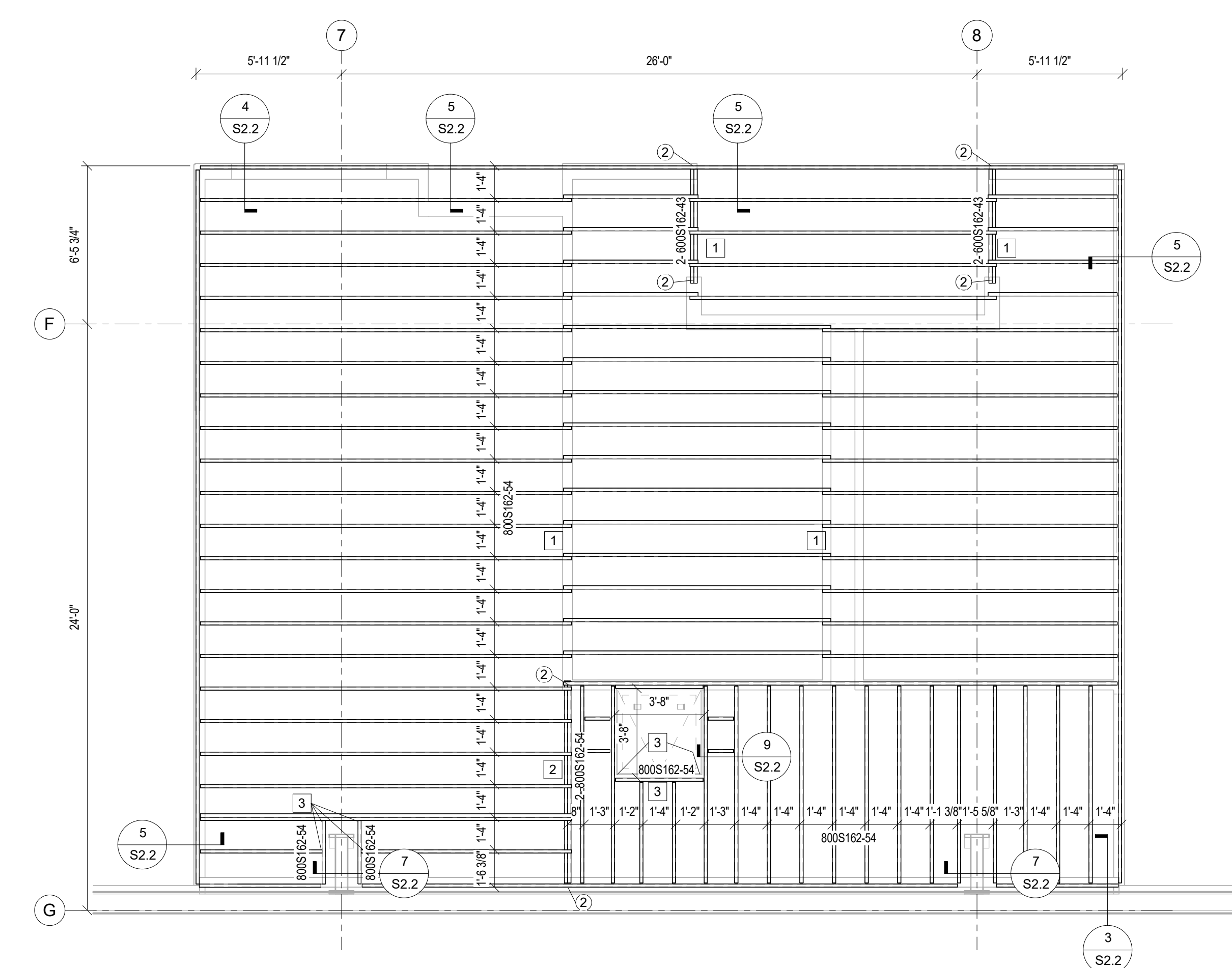


1 FOUNDATION PLAN  
1/8" = 1'-0"

FOUNDATION SIZES SHOWN ARE PRELIMINARY AND MUST BE VERIFIED BY EOR ONCE FINAL PEMB REACTIONS HAVE BEEN SUBMITTED



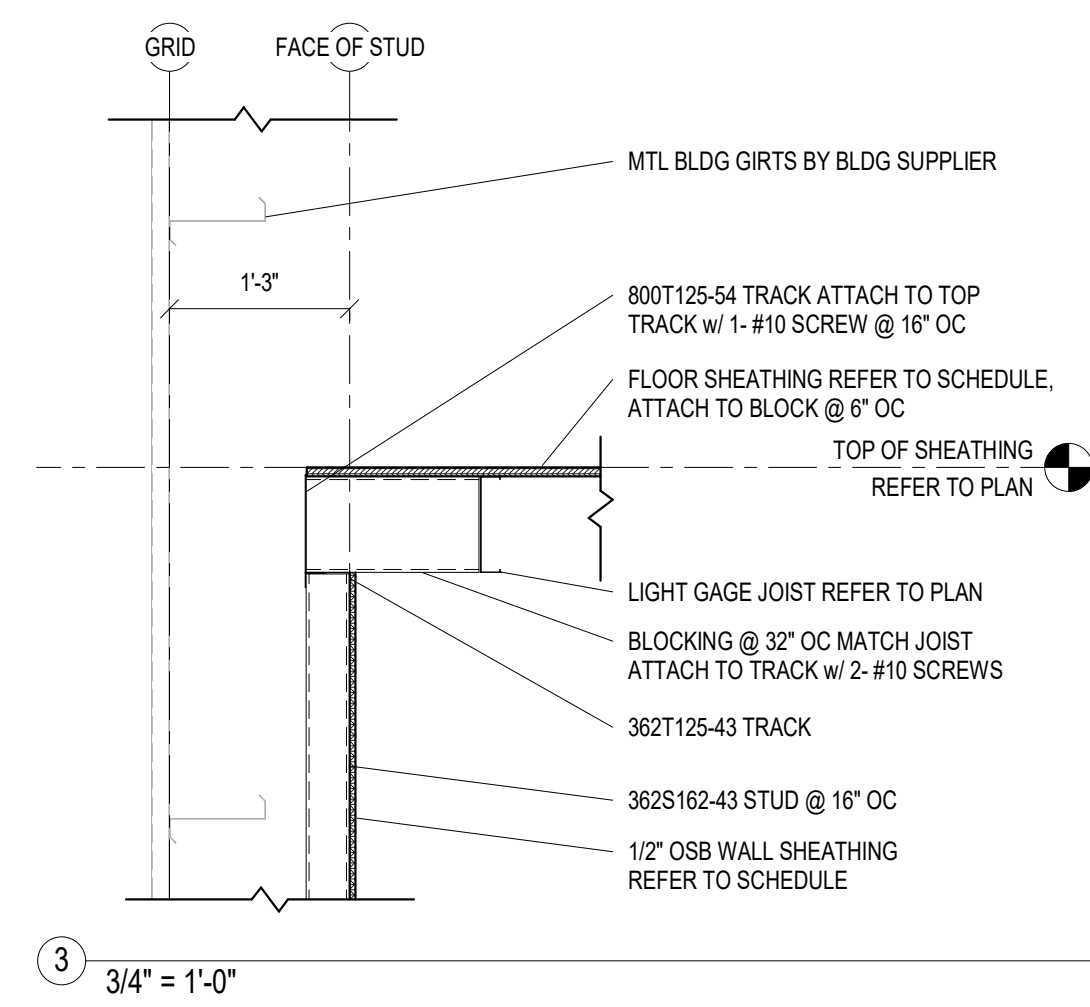
**CITY OF LEXINGTON  
LEXINGTON RACQUET CENTER  
Lexington, NE**



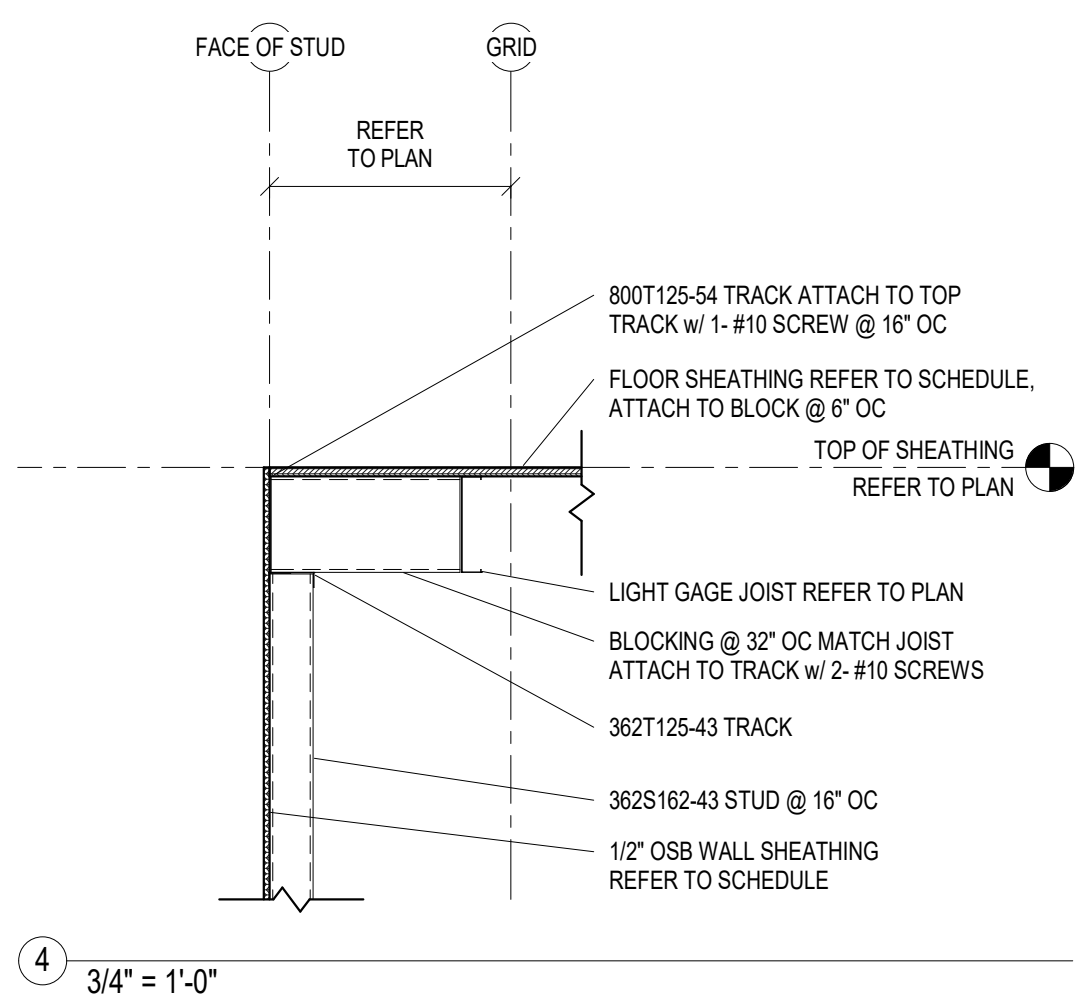
- GENERAL FLOOR PLAN NOTES**
1. REFER TO DESIGN DATA, SCHEDULES & TYP DETAILS
  2. # INDICATES KEYNOTE REFER TO PLAN FOR LOCATION
  3. @ INDICATES NUMBER OF BEARING STUDS REFER TO PLAN FOR LOCATION
  4. TOP OF SHEATHING = 110'-0"

- FLOOR KEYNOTES**
- # REFER TO PLAN FOR LOCATION NOT ALL NOTES OCCUR ON EA SHEET
  - 1 PROVIDE BLOCKING BETWEEN JOIST AT BEARING @ 32" OC
  - 2 PROVIDE BLOCKING BETWEEN EA JOIST AT BEARING
  - 3 ATTACH JOIST w/ SIMPSON SSC6.25 w/ 6-#10 SCREWS

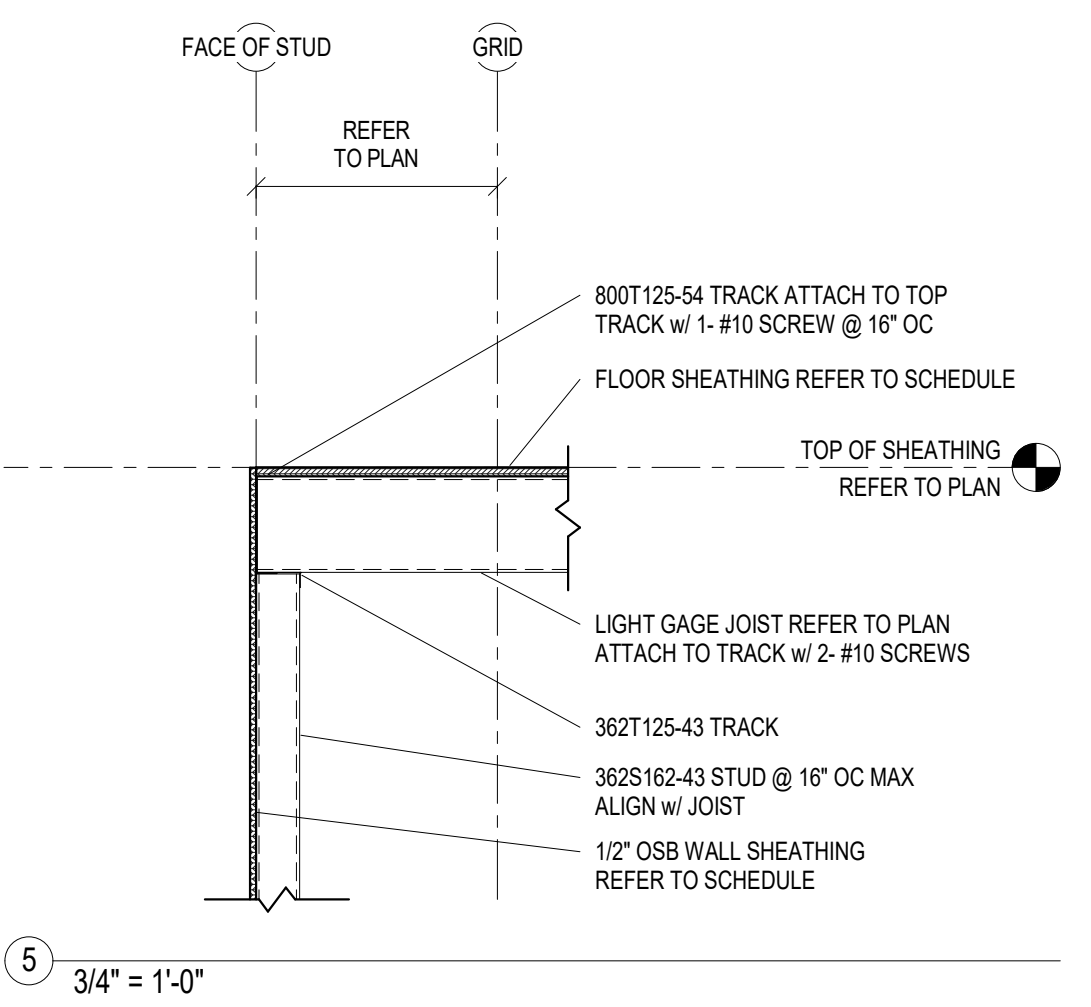
1 MEZZANINE FRAMING  
1/4" = 1'-0"



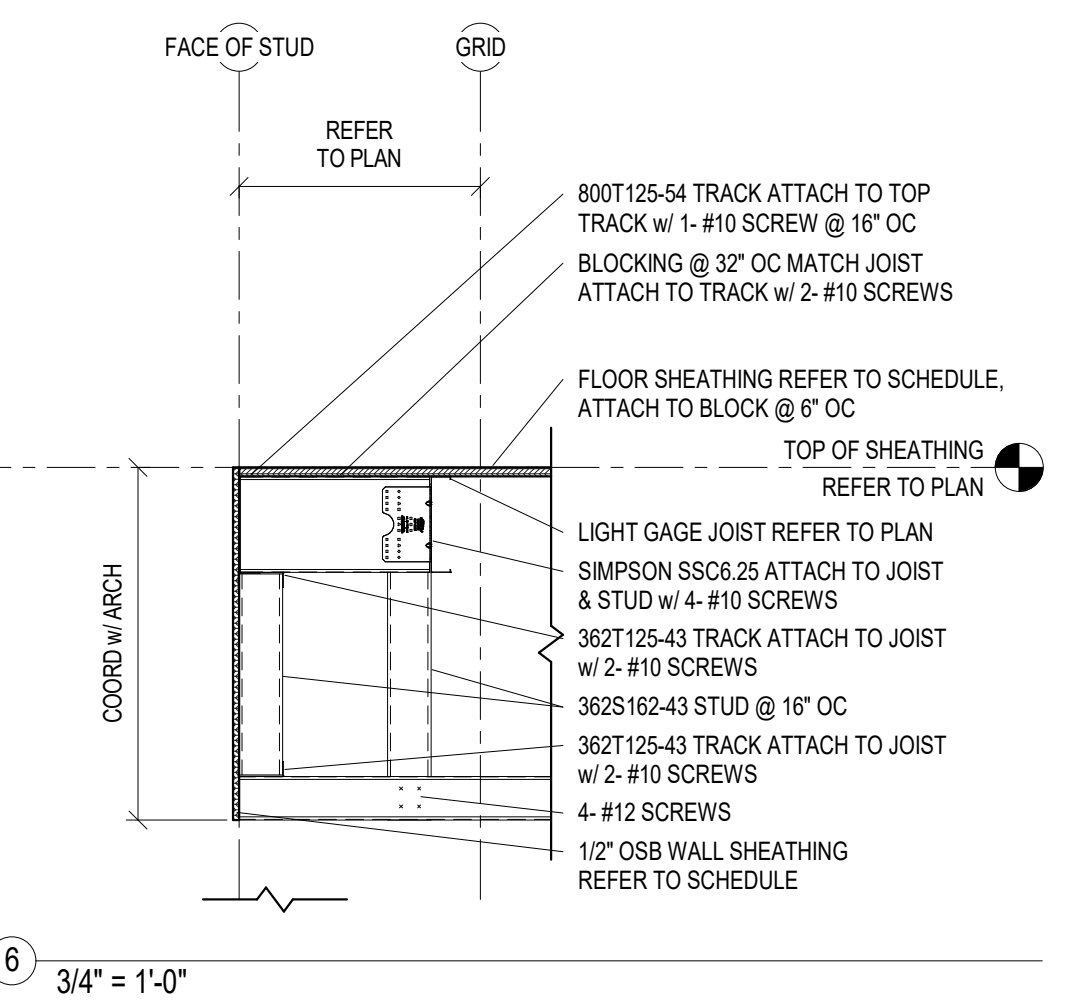
3 3/4" = 1'-0"



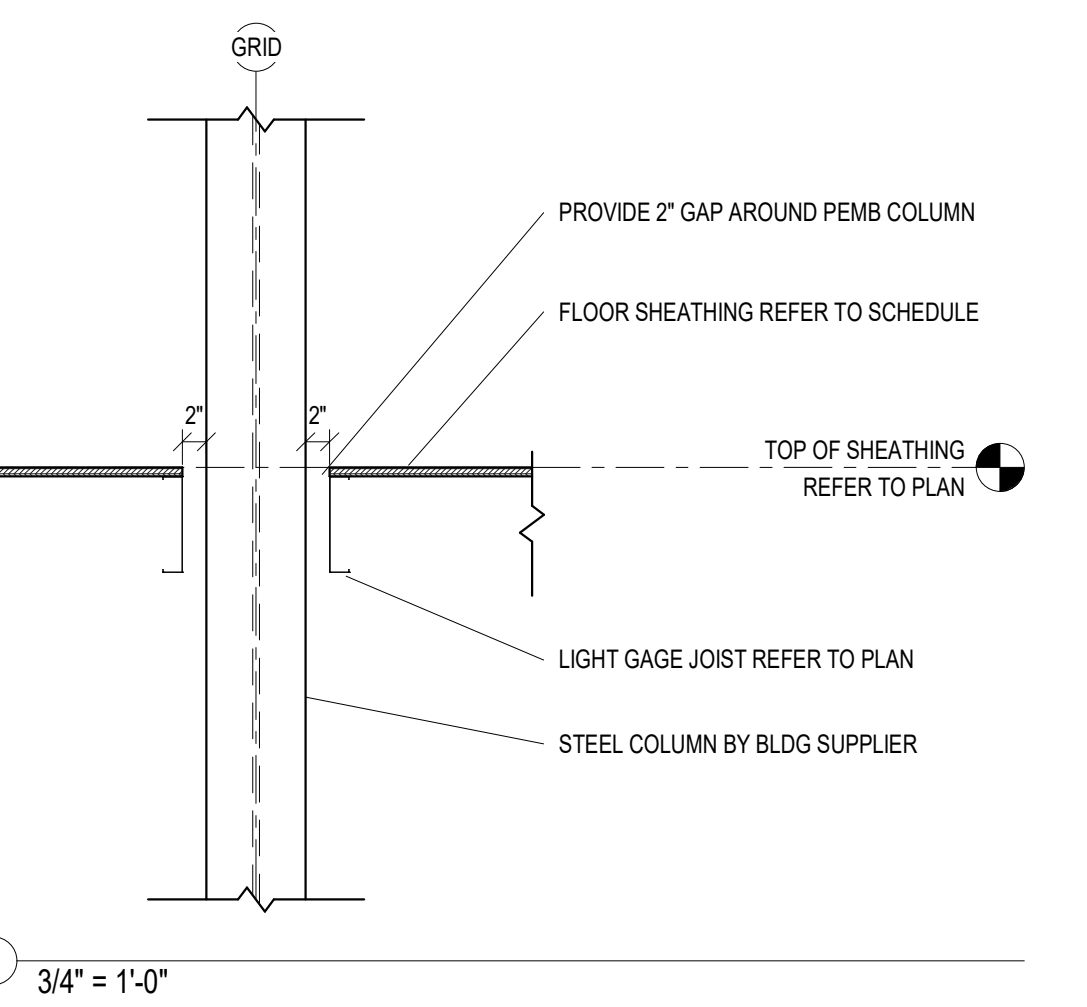
4 3/4" = 1'-0"



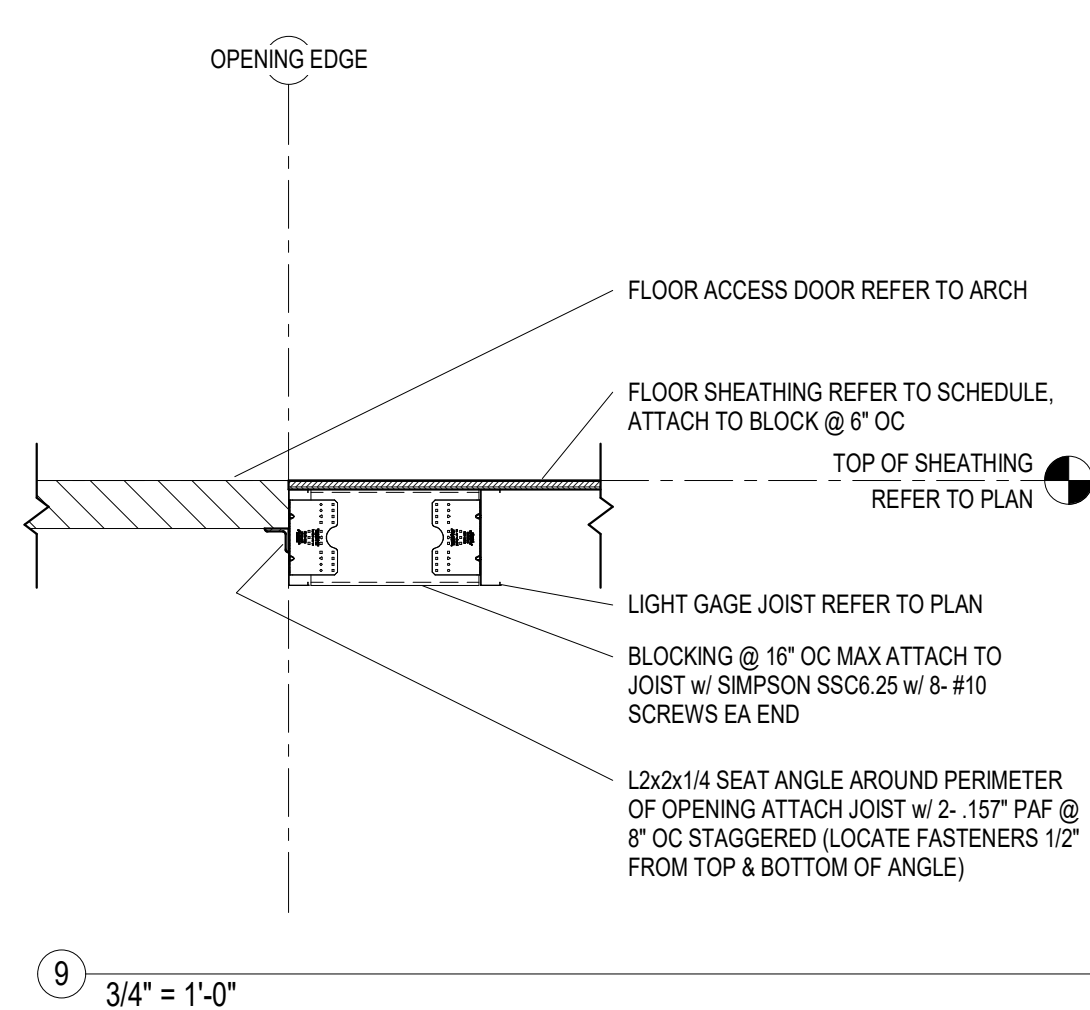
5 3/4" = 1'-0"



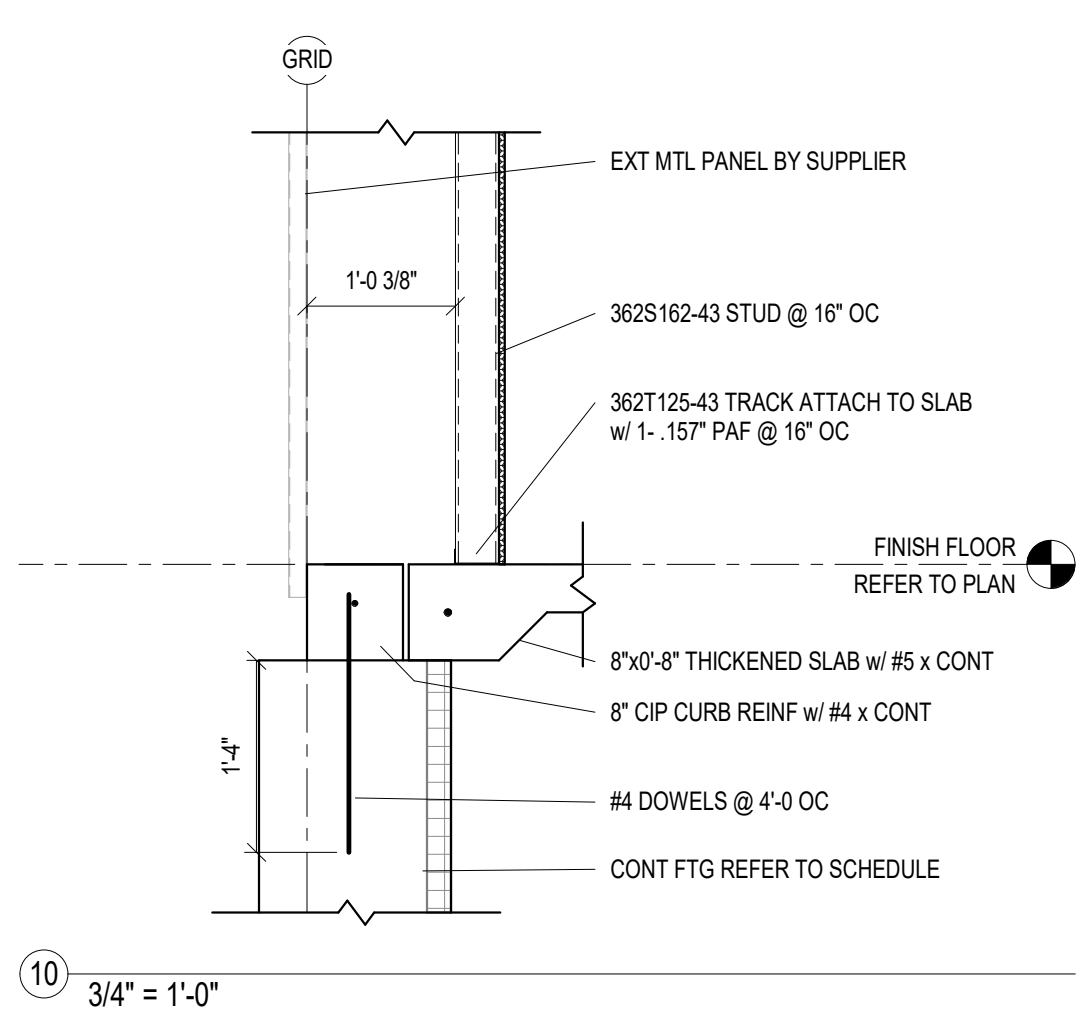
6 3/4" = 1'-0"



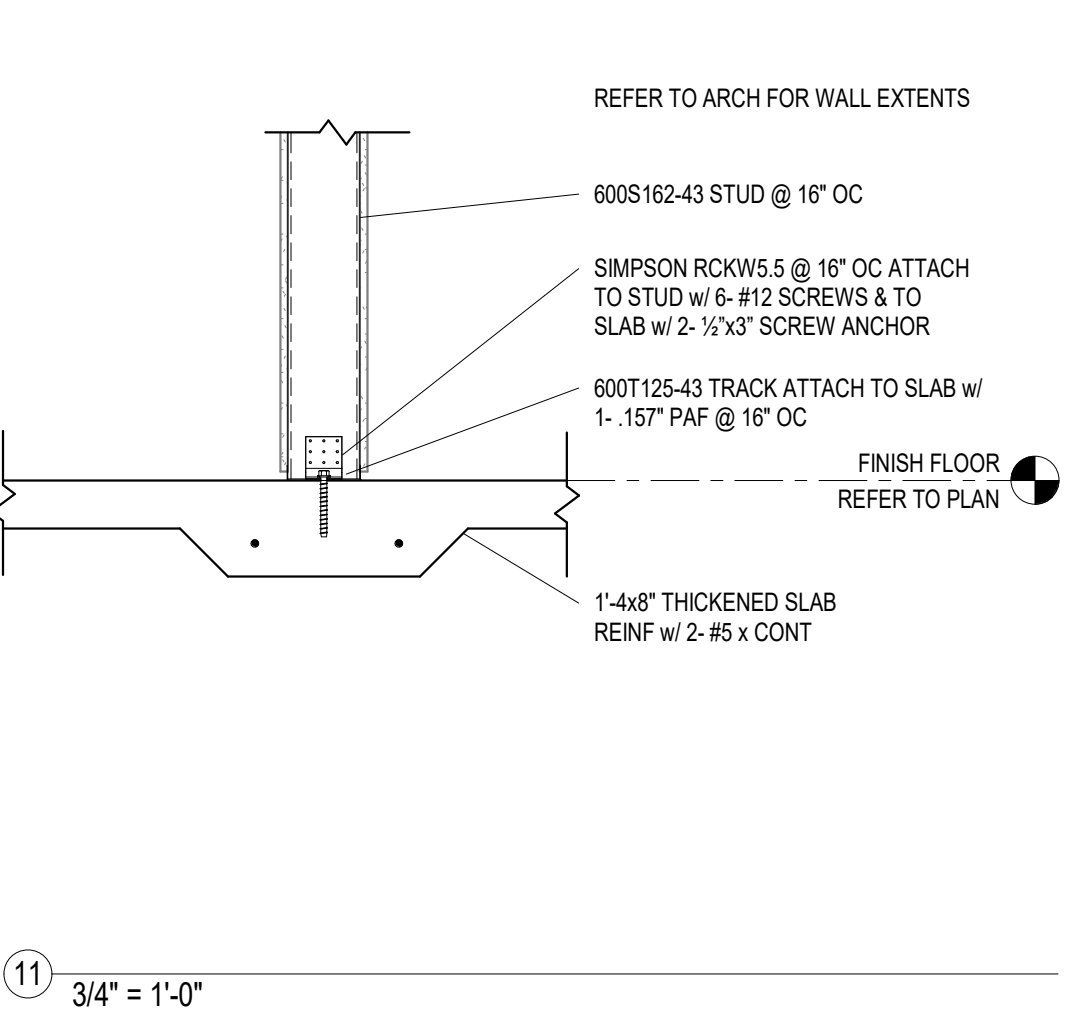
7 3/4" = 1'-0"



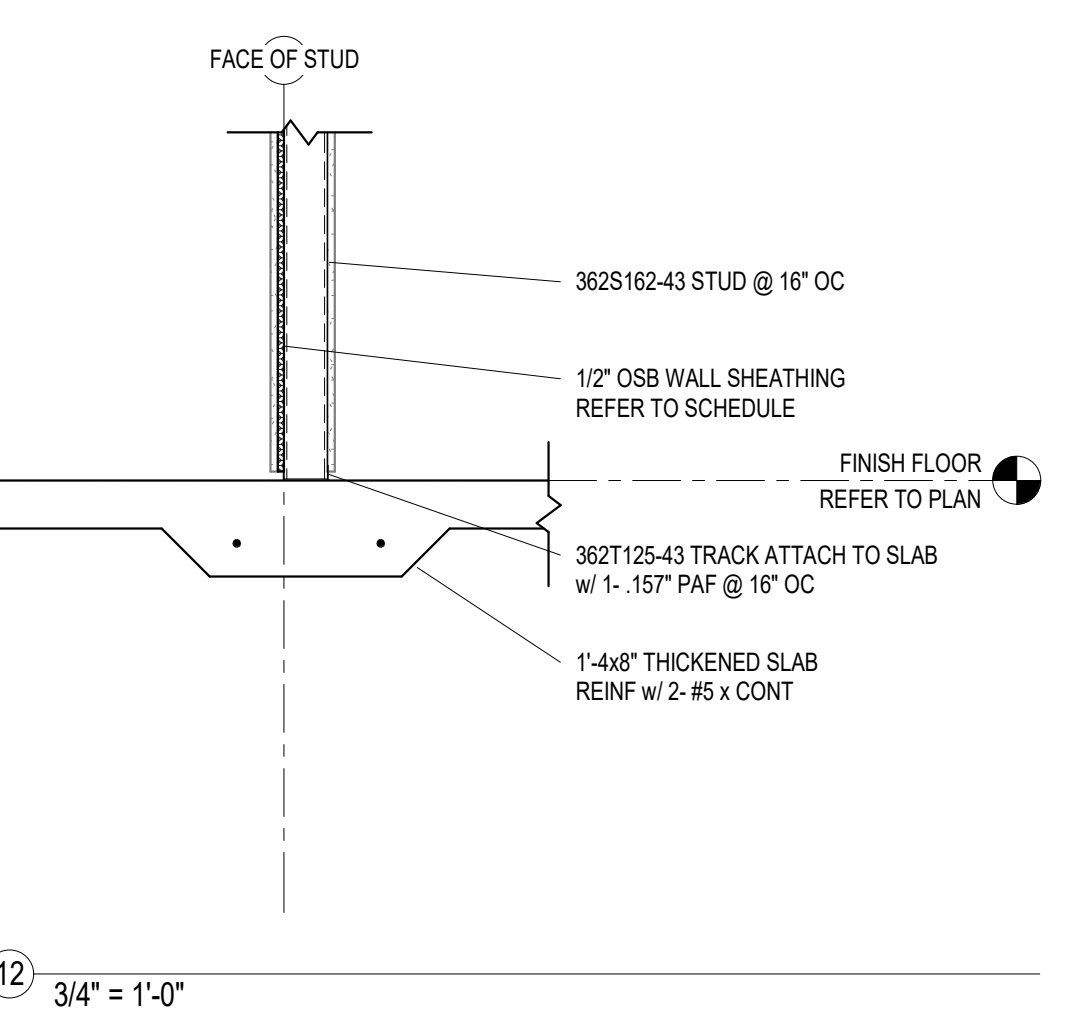
9 3/4" = 1'-0"



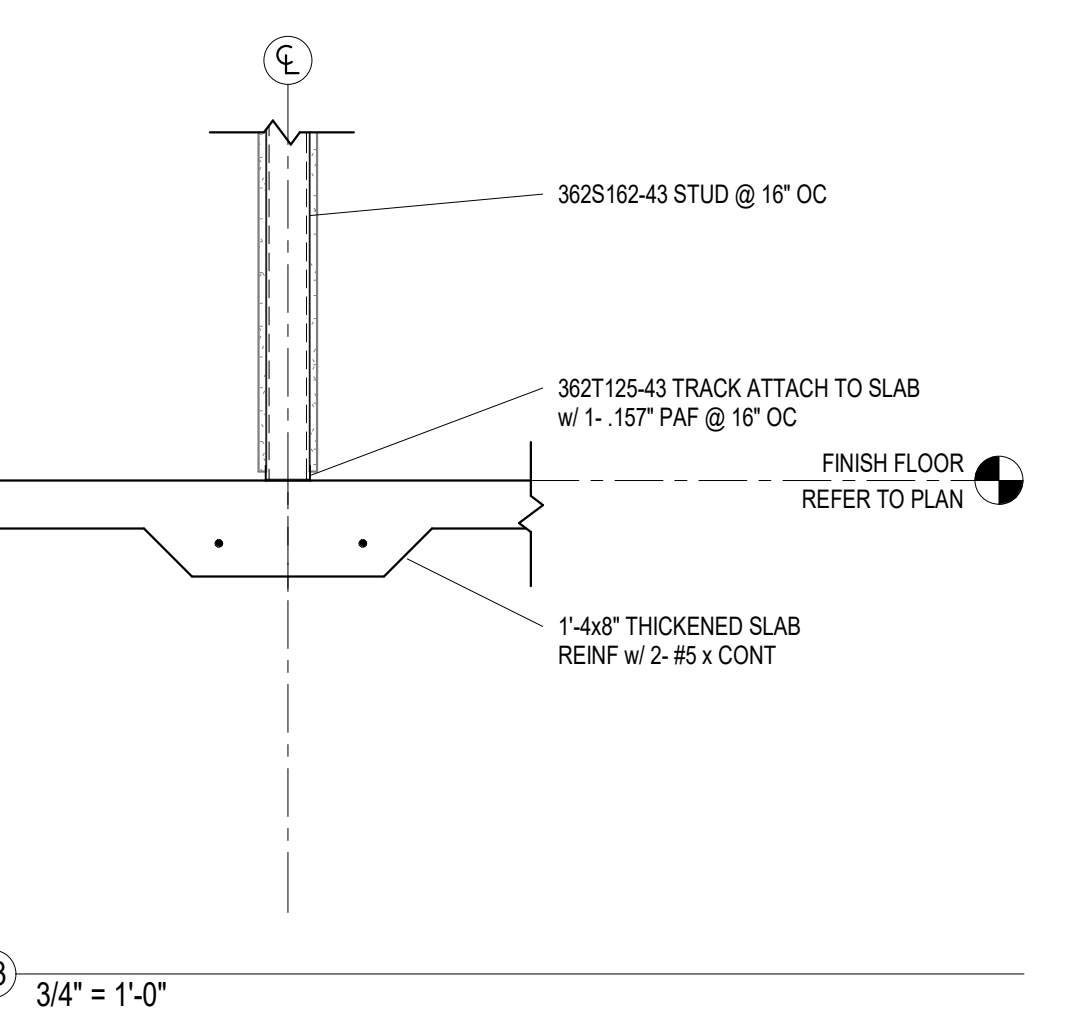
10 3/4" = 1'-0"



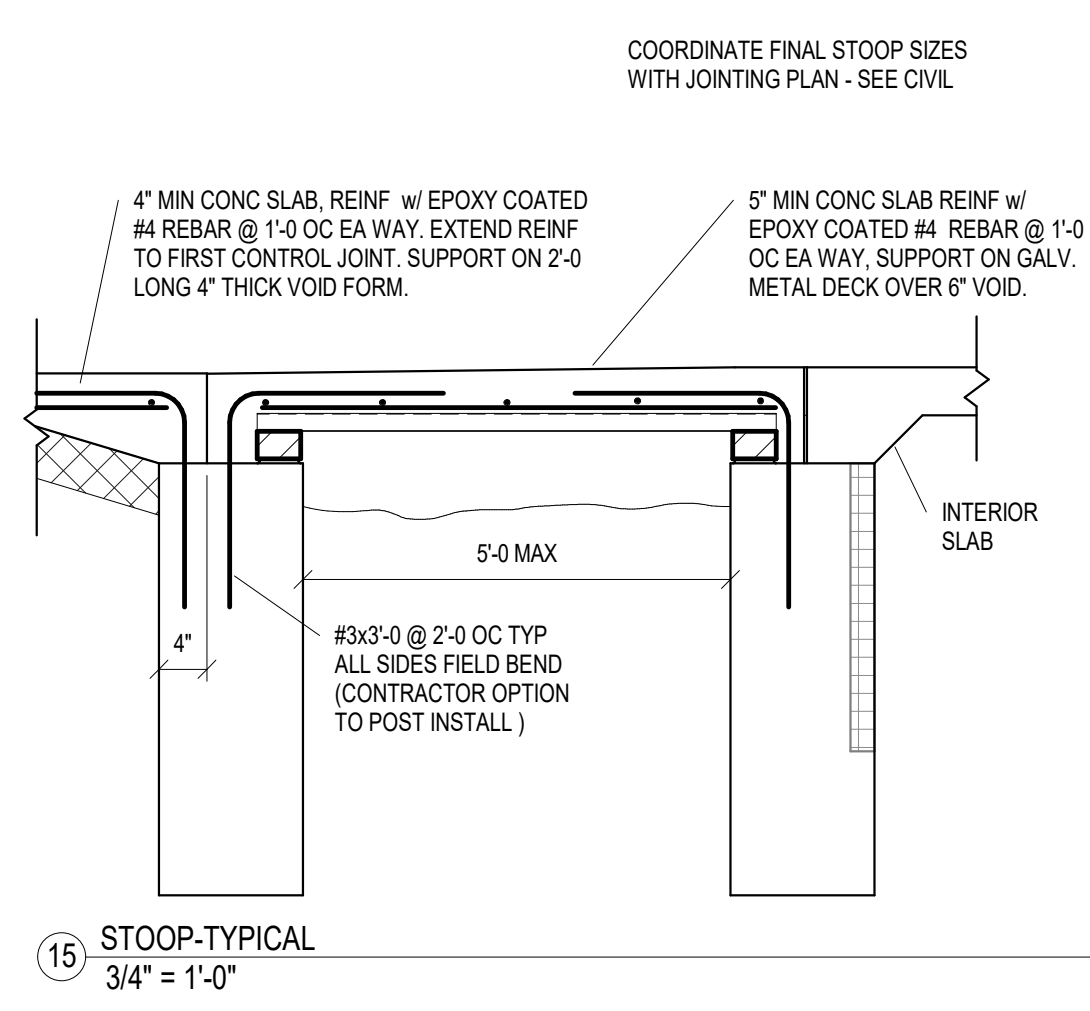
11 3/4" = 1'-0"



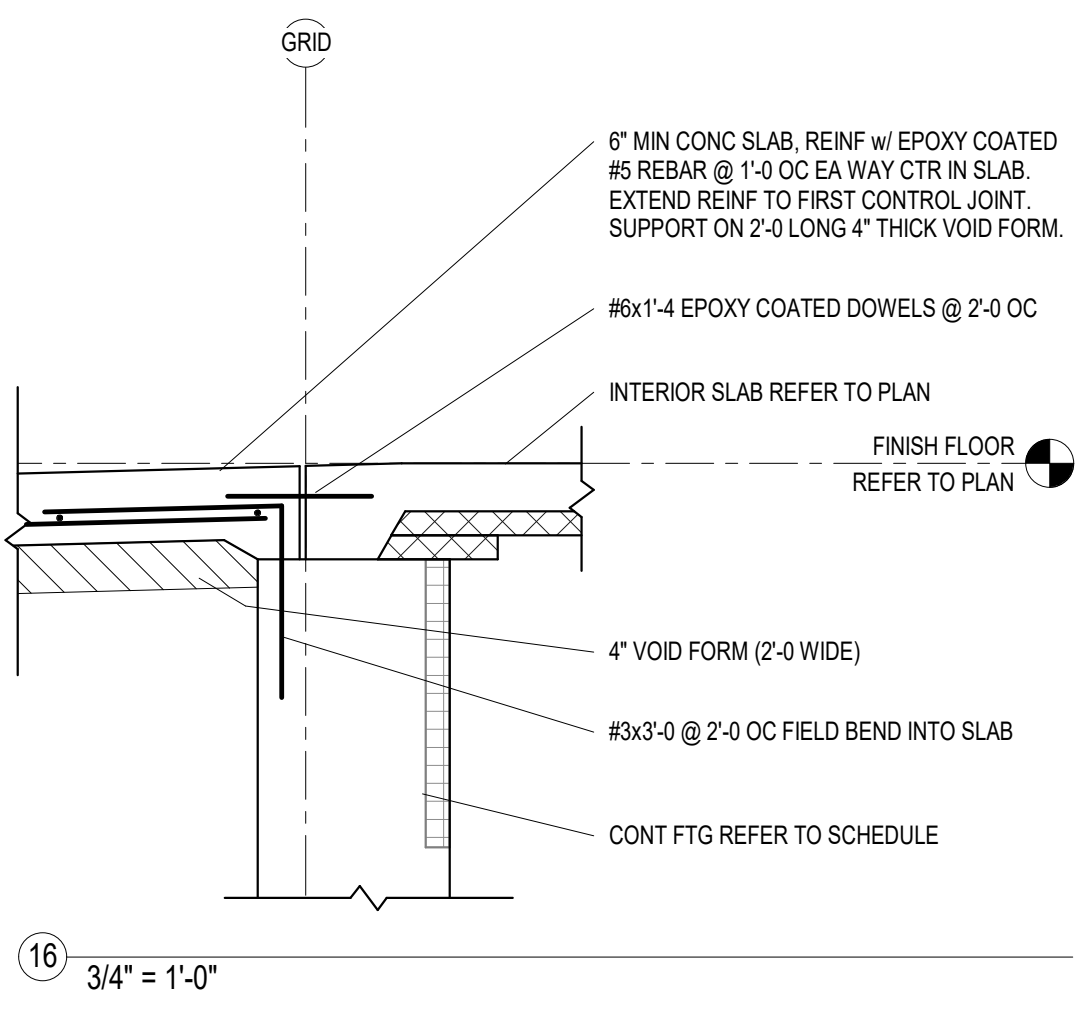
12 3/4" = 1'-0"



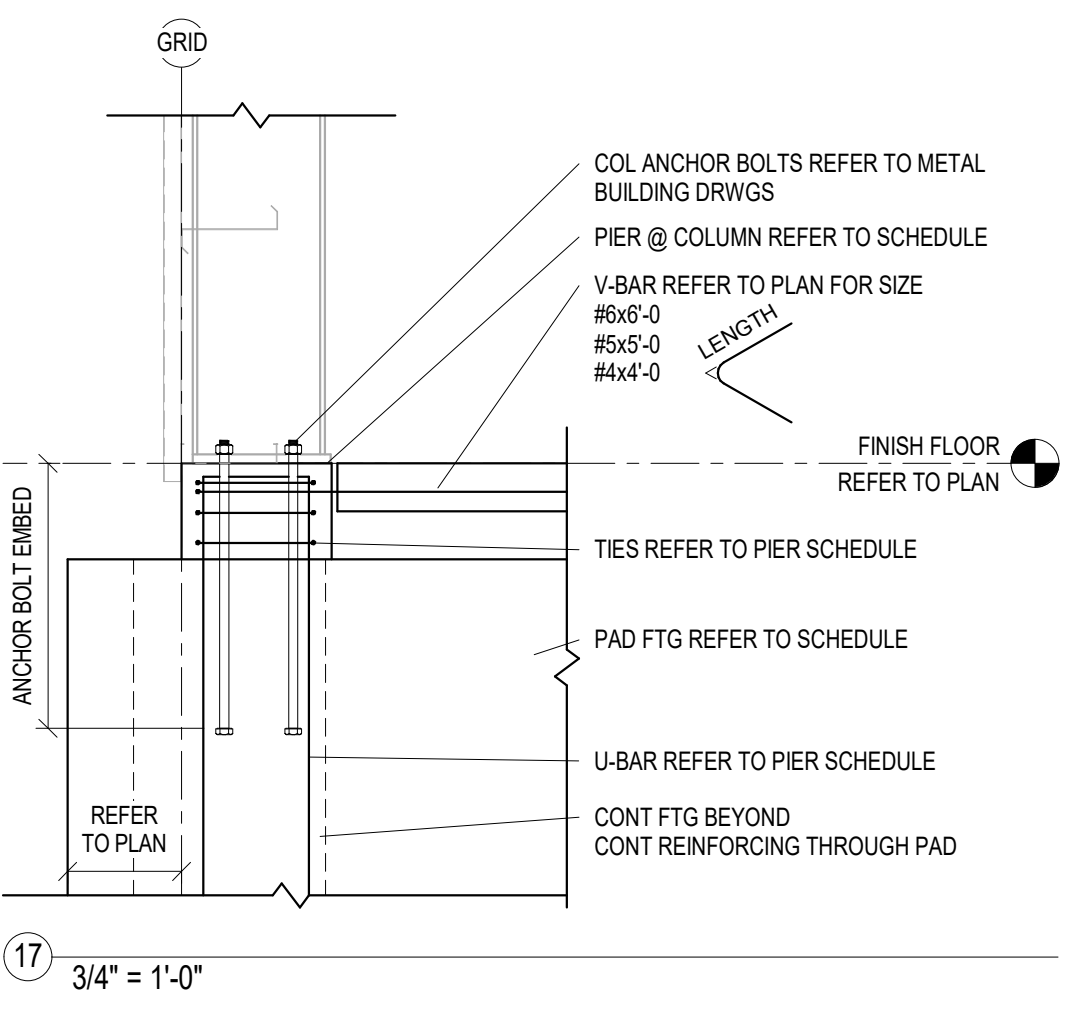
13 3/4" = 1'-0"



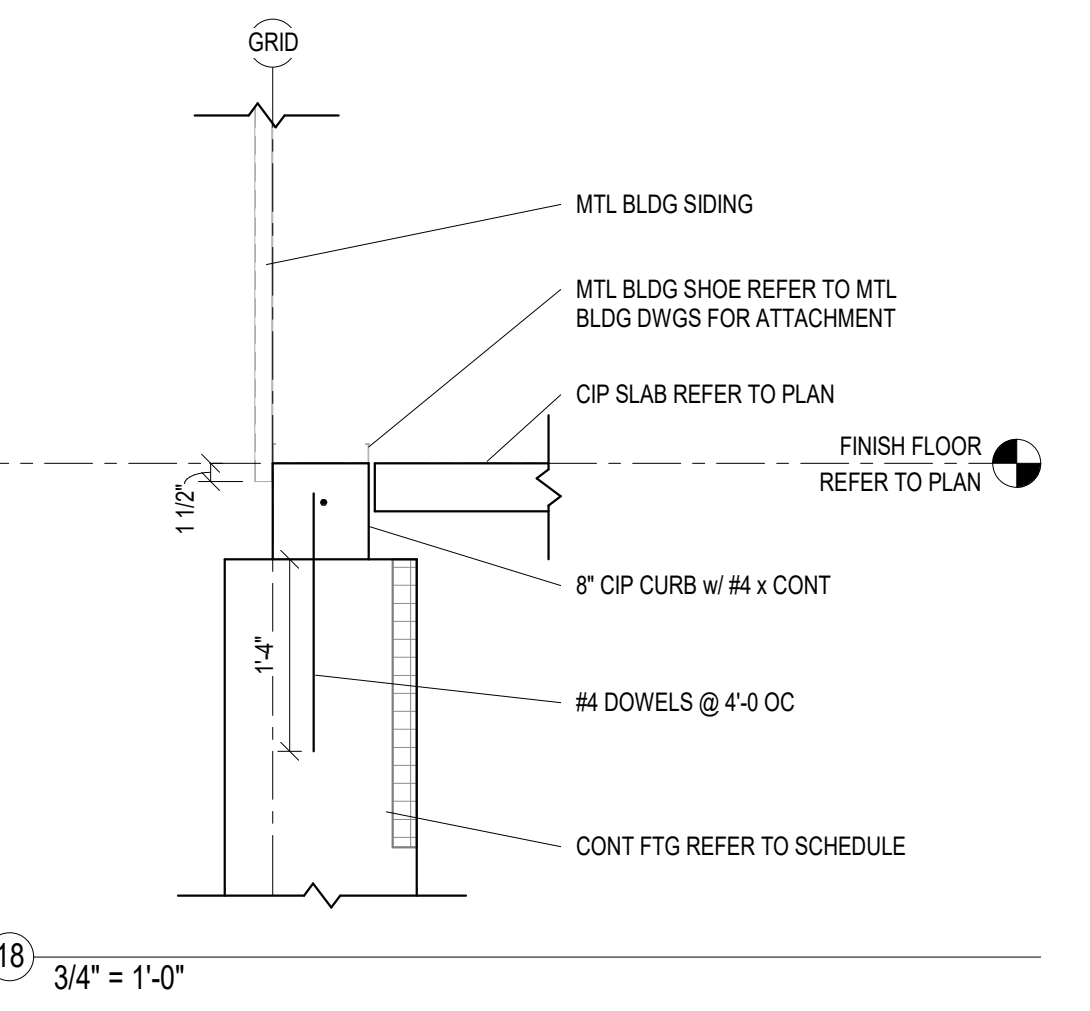
15 STOOP-TYPICAL  
3/4" = 1'-0"



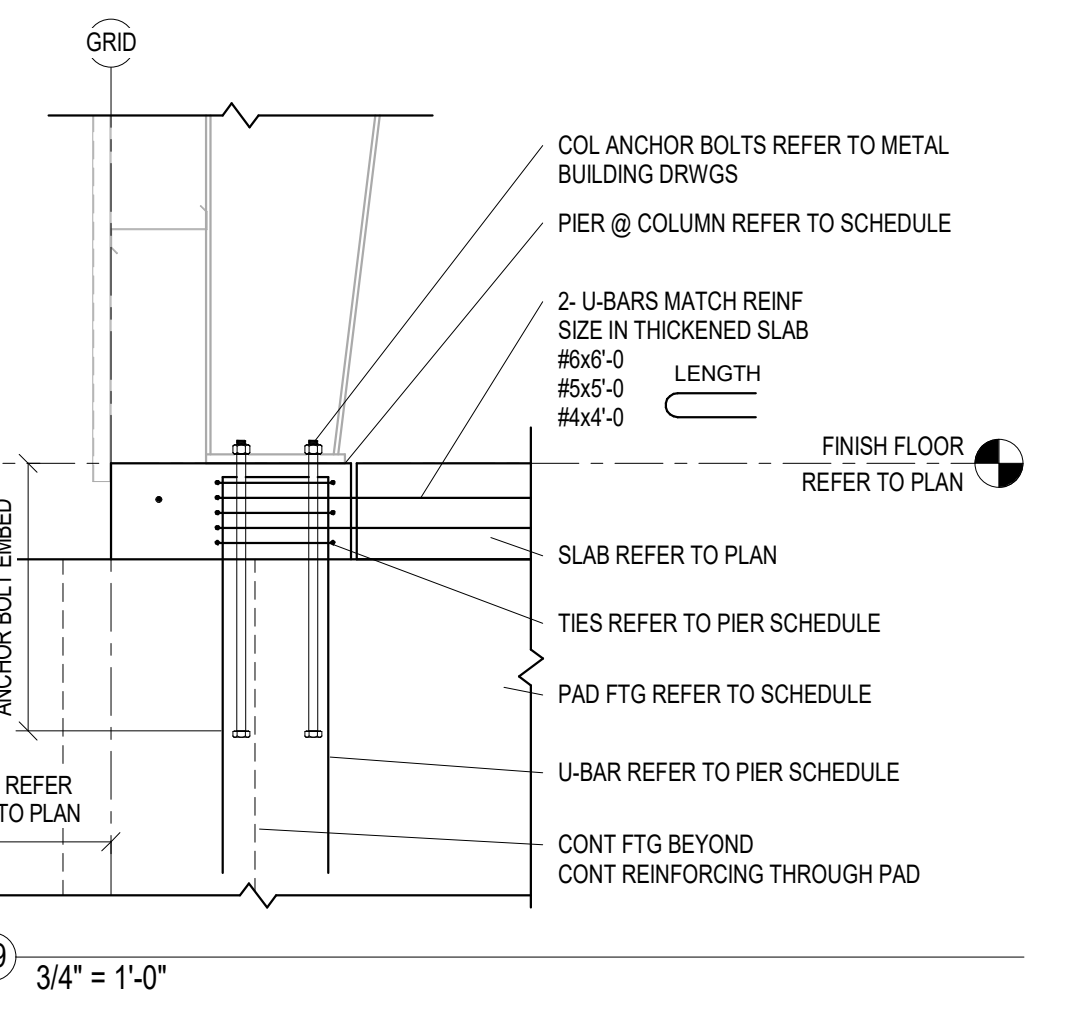
16 3/4" = 1'-0"



17 3/4" = 1'-0"



18 3/4" = 1'-0"



19 3/4" = 1'-0"

Revision/Issue	Date

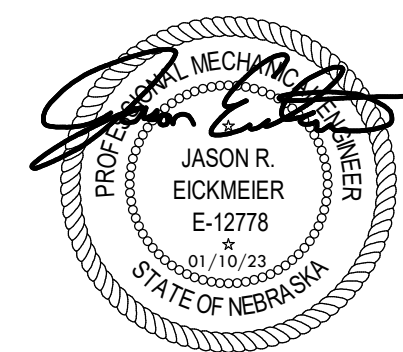
MEZZANINE FLOOR PLAN & STRUCTURAL DETAILS

Project Number: 2261  
Date: January 5, 2022

Copyright © 2023  
WILKINS Architecture | Design | Planning L.L.C.

Sheet Number:

**S2.2**



MEI PROJECT # 22493

**morrissey engineering inc**  
mechanical | electrical | lighting | technology | commissioning  
4805 North 118th Street  
Omaha, NE 68154 P  
402.491.4144  
www.morrisseyengineering.com

© copyright  
permission to reproduce all or part of this drawing is hereby granted solely for the limited purpose of construction of this project or archiving. unauthorized copying, disclosure or construction use without written permission of morrissey engineering, inc. is prohibited by copyright law.

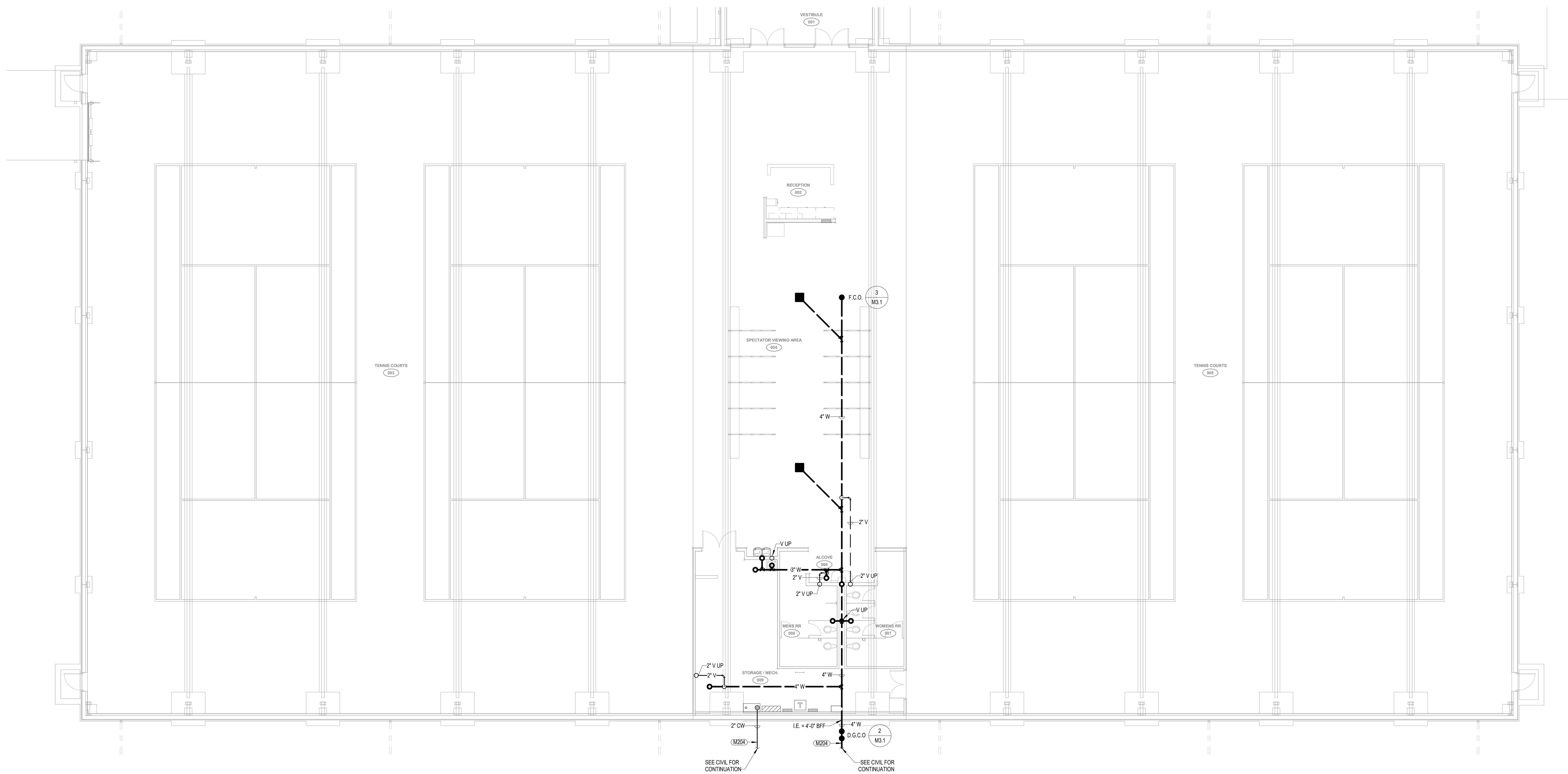
note:  
do not scale drawings. verify all dimensions and clearances from architectural, structural, shop and other appropriate drawings or at site. lay out and coordinate all work prior to installation to provide clearances required for operation, maintenance, and codes and verify non-interference with other work. do not fabricate prior to verification of clearance for all trades.

**GENERAL PLUMBING NOTES**

- DO NOT ROUTE PIPING ABOVE ELECTRICAL PANELS. MAINTAIN ALL CODE REQUIRED CLEARANCES.
- MAINTAIN MINIMUM 10'-0" CLEARANCE TO WASTE VENTS FROM ALL FRESH AIR INTAKES.
- MAINTAIN MANUFACTURER'S REQUIRED CLEARANCE AROUND ALL MECHANICAL EQUIPMENT TO ALLOW PROPER OPERATION AND FOR EASY MAINTENANCE AND FILTER ACCESS.
- COORDINATE EXACT LOCATION OF ALL FLOOR, WALL, AND ROOF PENETRATIONS AND WORK TO BE PERFORMED ABOVE THE FLOORS AND ROOF WITH GENERAL CONTRACTOR. SEAL ALL PENETRATIONS OF EXTERIOR ENVELOPE WEATHER TIGHT.
- UNLESS OTHERWISE NOTED, ROUTE PIPING AS HIGH AS POSSIBLE. UTILIZE JOIST SPACE AND OPEN WEBBING OF JOISTS TO AVOID CONFLICTS. COORDINATE EXACT ROUTING WITH STRUCTURE, LIGHTS, DUCTWORK, AND ALL OTHER TRADES. PROVIDE NECESSARY OFFSETS, TRANSITIONS, AND EXTENSIONS AS REQUIRED TO COMPLETE INSTALLATION AT NO ADDITIONAL COST TO OWNER.
- PLANS ARE SCHEMATIC IN NATURE. PIPE ROUTING IS SHOWN FOR CLARITY AND FOR GENERAL ROUTING INFORMATION. COORDINATE EXACT ROUTING WITH ALL OTHER TRADES. PROVIDE ALL ADDITIONAL OFFSETS AS REQUIRED TO COMPLETE INSTALLATION.
- INSTALL ALL VALVES ABOVE ACCESSIBLE CEILINGS OR IN ACCESSIBLE LOCATIONS. PROVIDE ACCESS PANELS WHERE REQUIRED.
- DO NOT ROUTE WATER PIPING IN EXTERIOR WALLS UNLESS OTHERWISE NOTED. PIPING ROUTED IN EXTERIOR WALLS SHALL BE LOCATED ON THE INTERIOR SIDE OF INSULATION.
- ALL PLUMBING SHALL BE IN ACCORDANCE WITH THE LOCAL PLUMBING CODE. NOT ALL CLEANOUTS SHOWN. PROVIDE CLEANOUTS AS REQUIRED PER AUTHORITY HAVING JURISDICTION. COORDINATE CLEANOUT LOCATIONS WITH GENERAL CONTRACTOR.
- SEE WASTE AND VENT RISER DIAGRAMS ON SHEET M2.1 FOR COMPLETE PLUMBING SIZES AND CONFIGURATION.
- SEE PLUMBING FIXTURE SCHEDULE SHEET M4.1 FOR PLUMBING FIXTURE CONNECTION REQUIREMENTS.

**KEYNOTES**

M204 COORDINATE UNDERFLOOR UTILITY ENTRANCE / EXIT WITH BUILDING FOUNDATIONS AND FOOTINGS. ROUTE PIPING UNDER FOOTINGS IF POSSIBLE. IF SITE ELEVATIONS DO NOT ALLOW, CONTRACTOR SHALL SLEEVE OR NOTCH THROUGH FOOTINGS TO ALLOW PIPE ROUTING. COORDINATE PIPE SLEEVES WITH TRADE CONTRACTOR. COORDINATE PIPE ELEVATIONS WITH CIVIL. SEE CIVIL PLANS FOR CONTINUATION.



**FIRST FLOOR - UNDERGROUND PLUMBING**  
SCALE: 1/8" = 1'-0"

**CITY OF LEXINGTON  
LEXINGTON RACQUET CENTER  
Lexington, NE**

Revision/Issue	Date

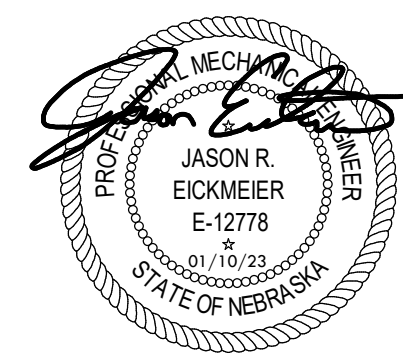
BELOW GRADE PLUMBING PLAN

Project Number: 2261  
Date: January 5, 2023

Copyright © 2023  
WILKINS Architecture | Design | Planning L.L.C.

Sheet Number:

**M1.0**



MEI PROJECT # 22493

**morrissey engineering inc**  
mechanical | electrical | lighting | technology | commissioning  
4800 North 118th Street  
Omaha, NE 68154 P  
402.491.4144  
www.morrisseyengineering.com

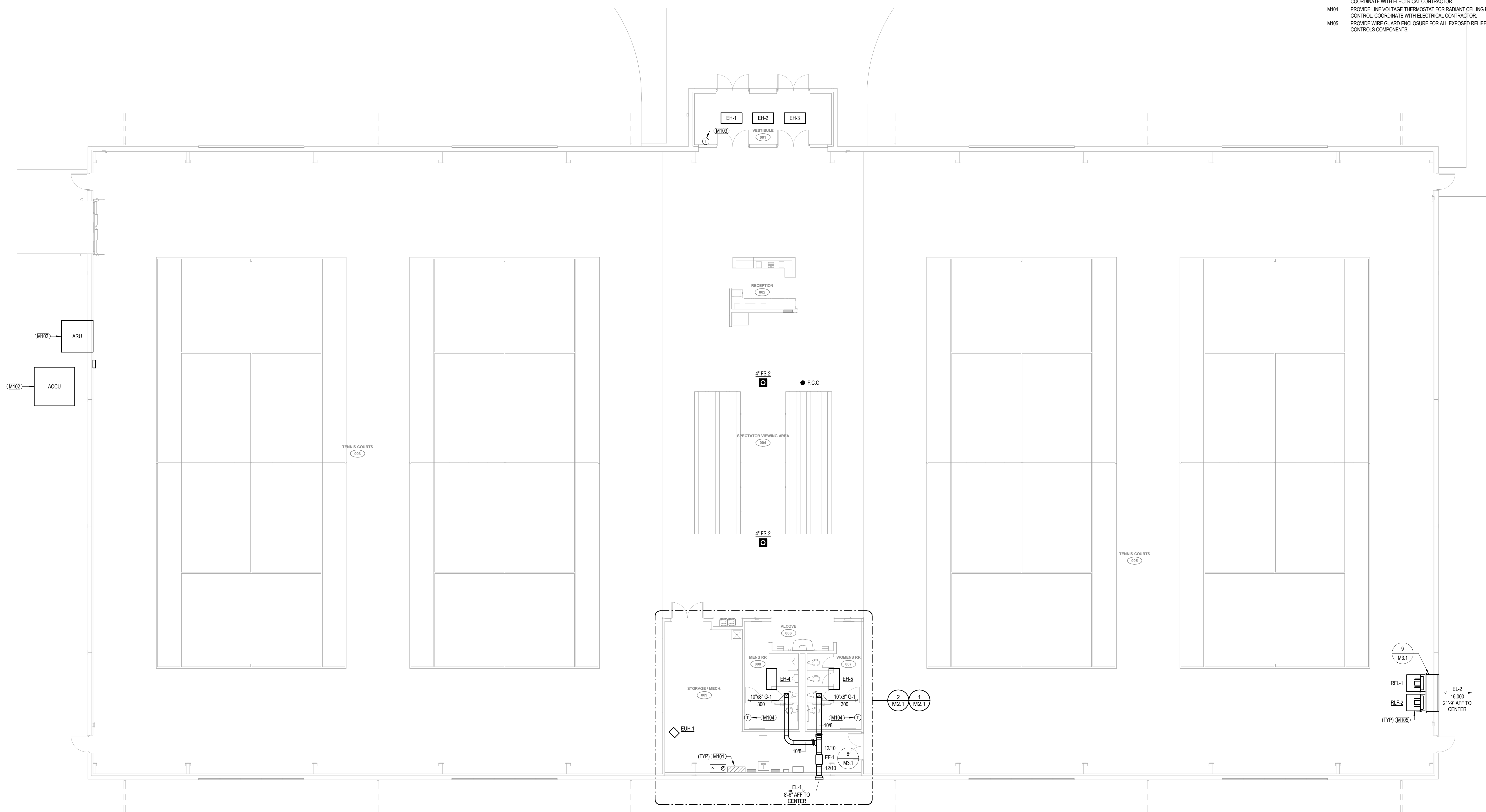
© copyright  
permission to reproduce all or part of this drawing is hereby granted solely for the limited purpose of construction of this project or archiving. unauthorized copying, disclosure or construction use without written permission of morrissey engineering, inc. is prohibited by copyright law.  
note:  
do not scale drawings. verify all dimensions and clearances from architectural, structural, shop and other appropriate drawings or at site. lay out and coordinate all work prior to installation to provide clearances required for operation, maintenance, and codes and verify non-interference with other work. do not fabricate prior to verification of clearance for all trades.

**GENERAL MECHANICAL NOTES**

- DO NOT ROUTE DUCTWORK ABOVE ELECTRICAL PANELS. MAINTAIN ALL CODE REQUIRED CLEARANCES.
- MAINTAIN MINIMUM 10'-0" CLEARANCE TO EXHAUST FANS FROM ALL FRESH AIR INTAKES.
- MAINTAIN MANUFACTURER'S REQUIRED CLEARANCE AROUND ALL MECHANICAL EQUIPMENT TO ALLOW PROPER OPERATION AND FOR EASY MAINTENANCE AND FILTER ACCESS.
- COORDINATE EXACT LOCATION OF ALL FLOOR, WALL, AND ROOF PENETRATIONS AND WORK TO BE PERFORMED ABOVE THE FLOORS AND ROOF WITH GENERAL CONTRACTOR. SEAL ALL PENETRATIONS OF EXTERIOR ENVELOPE WEATHER TIGHT.
- UNLESS OTHERWISE NOTED, ROUTE DUCTWORK AS HIGH AS POSSIBLE. UTILIZE JOIST SPACE AND OPEN WEBSING OF JOISTS TO AVOID CONFLICTS. COORDINATE EXACT ROUTING WITH STRUCTURE, LIGHTS, AND ALL OTHER TRADES. PROVIDE NECESSARY OFFSETS, TRANSITIONS, AND EXTENSIONS AS REQUIRED TO COMPLETE INSTALLATION AT NO ADDITIONAL COST TO OWNER.
- PLANS ARE SCHEMATIC IN NATURE. DUCTWORK ROUTING IS SHOWN FOR CLARITY AND FOR GENERAL ROUTING INFORMATION. COORDINATE EXACT ROUTING WITH ALL OTHER TRADES. PROVIDE ALL ADDITIONAL OFFSETS AS REQUIRED TO COMPLETE INSTALLATION.
- CENTER DIFFUSERS, REGISTERS, AND GRILLES IN CEILING TILES WHERE 24x24 OR 24x12 CEILING DEVICES ARE NOT USED.
- CONTRACTOR TO PROVIDE ALL LOW VOLTAGE AND LINE VOLTAGE CONTROL WIRING REQUIRED FOR COMPLETE OPERATION OF ALL MECHANICAL EQUIPMENT.
- FOR GENERAL DUCTWORK FITTINGS, SEE DETAIL 6 ON SHEET M3.1.
- RUN OUTS TO DIFFUSERS AND REGISTERS SHALL MATCH NECK SIZE UNLESS OTHERWISE NOTED. SEE DETAIL 7 ON SHEET M3.1.
- SEE ELECTRICAL DRAWINGS DEVICE ALIGNMENT DETAIL FOR ALL SENSOR AND/OR CONTROL DEVICE INSTALLATION HEIGHTS AND SPACING NOTES UNLESS OTHERWISE NOTED. IF DEVICE ALIGNMENT DETAIL NOT AVAILABLE, MOUNT AT PREFERRED MOUNTING HEIGHT WHERE APPLICABLE. SEE SPECIFICATIONS, OR CONFIRM WITH ENGINEER PRIOR TO INSTALLATION.

**KEYNOTES**

- M101 DO NOT ROUTE DUCTWORK OVER ELECTRICAL PANELS. MAINTAIN ALL CODE REQUIRED CLEARANCES.
- M102 OWNER FURNISHED AND INSTALLED AIR ROTATION UNIT.
- M103 PROVIDE LINE VOLTAGE THERMOSTAT FOR EH-1, 2, & 3 CONTROL. THERMOSTAT TO BE CAPABLE OF CONTROLLING ALL 3 HEATERS. COORDINATE WITH ELECTRICAL CONTRACTOR.
- M104 PROVIDE LINE VOLTAGE THERMOSTAT FOR RADIANT CEILING PANEL CONTROL. COORDINATE WITH ELECTRICAL CONTRACTOR.
- M105 PROVIDE WIRE GUARD ENCLOSURE FOR ALL EXPOSED RELIEF FAN CONTROLS COMPONENTS.



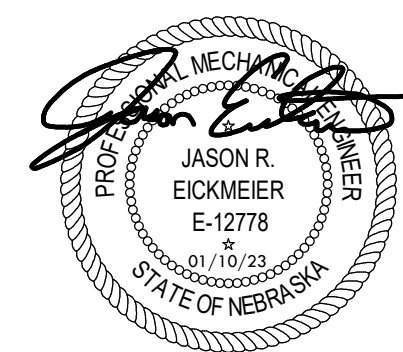
Revision/Issue	Date

MECHANICAL PLAN

Project Number: 2261  
Date: January 5, 2023

Copyright © 2023  
WILKINS Architecture | Design | Planning L.L.C.

Sheet Number:



MEI PROJECT # 22493

**morrissey engineering inc**  
mechanical | electrical | lighting | technology | commissioning  
4800 North 118th Street  
Omaha, NE 68154 P  
402.491.4144  
www.morrisseyengineering.com

© copyright  
permission to reproduce all or part of this drawing is hereby granted solely for the limited purpose of construction of this project or archiving. unauthorized copying, disclosure or construction use without written permission of morrissey engineering, inc. is prohibited by copyright law.

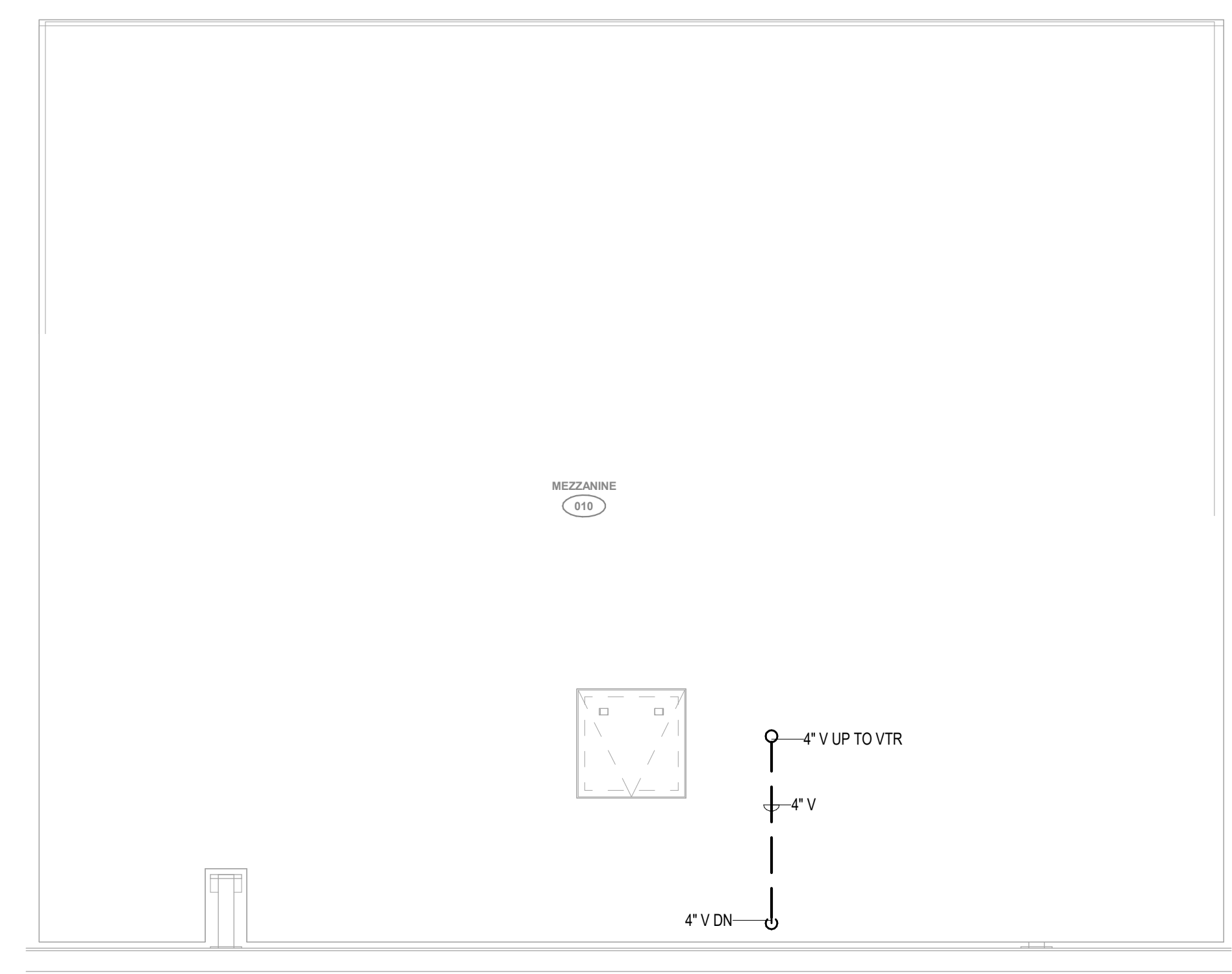
note:  
do not scale drawings. verify all dimensions and clearances from architectural, structural, shop and other appropriate drawings or at site. tag out and coordinate all work prior to installation to provide clearances required for operation, maintenance, and codes and verify non-interference with other work. do not fabricate prior to verification of clearance for all trades.

**GENERAL PLUMBING NOTES**

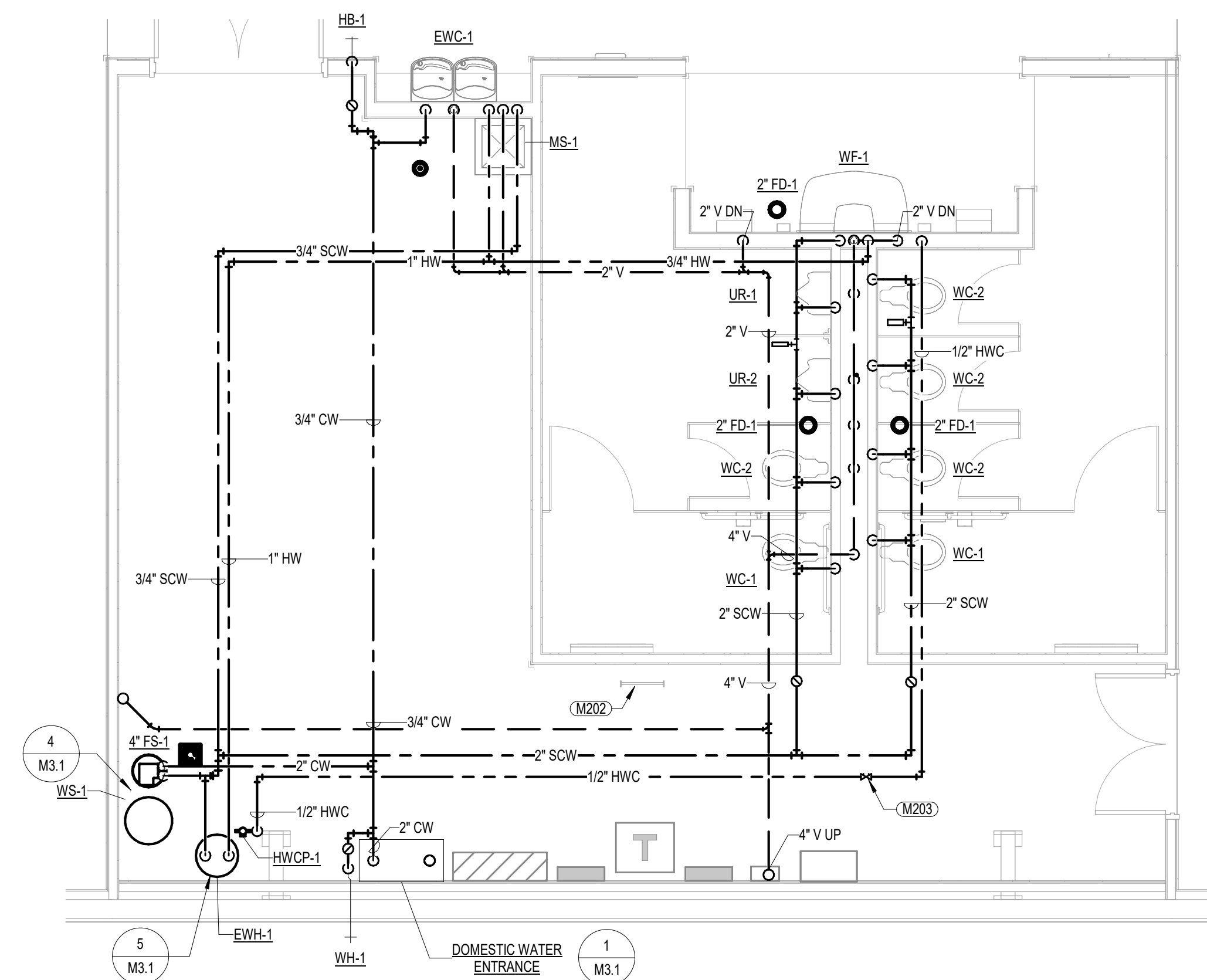
- DO NOT ROUTE PIPING ABOVE ELECTRICAL PANELS. MAINTAIN ALL CODE REQUIRED CLEARANCES.
- MAINTAIN MINIMUM 10'-0" CLEARANCE TO WASTE VENTS FROM ALL FRESH AIR INTAKES.
- MAINTAIN MANUFACTURER'S REQUIRED CLEARANCE AROUND ALL MECHANICAL EQUIPMENT TO ALLOW PROPER OPERATION AND FOR EASY MAINTENANCE AND FILTER ACCESS.
- COORDINATE EXACT LOCATION OF ALL FLOOR, WALL, AND ROOF PENETRATIONS AND WORK TO BE PERFORMED ABOVE THE FLOORS AND ROOF WITH GENERAL CONTRACTOR. SEAL ALL PENETRATIONS OF EXTERIOR ENVELOPE WEATHER TIGHT.
- UNLESS OTHERWISE NOTED, ROUTE PIPING AS HIGH AS POSSIBLE. UTILIZE JOIST SPACE AND OPEN WEBBING OF JOISTS TO AVOID CONFLICTS. COORDINATE EXACT ROUTING WITH STRUCTURE, LIGHTS, DUCTWORK, AND ALL OTHER TRADES. PROVIDE NECESSARY OFFSETS, TRANSITIONS, AND EXTENSIONS AS REQUIRED TO COMPLETE INSTALLATION AT NO ADDITIONAL COST TO OWNER.
- PLANS ARE SCHEMATIC IN NATURE. PIPE ROUTING IS SHOWN FOR CLARITY AND FOR GENERAL ROUTING INFORMATION. COORDINATE EXACT ROUTING WITH ALL OTHER TRADES. PROVIDE ALL ADDITIONAL OFFSETS AS REQUIRED TO COMPLETE INSTALLATION.
- INSTALL ALL VALVES ABOVE ACCESSIBLE CEILINGS OR IN ACCESSIBLE LOCATIONS. PROVIDE ACCESS PANELS WHERE REQUIRED.
- DO NOT ROUTE WATER PIPING IN EXTERIOR WALLS UNLESS OTHERWISE NOTED. PIPING ROUTED IN EXTERIOR WALLS SHALL BE LOCATED ON THE INTERIOR SIDE OF INSULATION.
- ALL PLUMBING SHALL BE IN ACCORDANCE WITH THE LOCAL PLUMBING CODE. NOT ALL CLEANOUTS SHOWN. PROVIDE CLEANOUTS AS REQUIRED PER AUTHORITY HAVING JURISDICTION. COORDINATE CLEANOUT LOCATIONS WITH GENERAL CONTRACTOR.
- SEE WASTE AND VENT RISER DIAGRAMS ON SHEET M2.1 FOR COMPLETE PLUMBING SIZES AND CONFIGURATION.
- SEE PLUMBING FIXTURE SCHEDULE SHEET M4.1 FOR PLUMBING FIXTURE CONNECTION REQUIREMENTS.

**KEYNOTES**

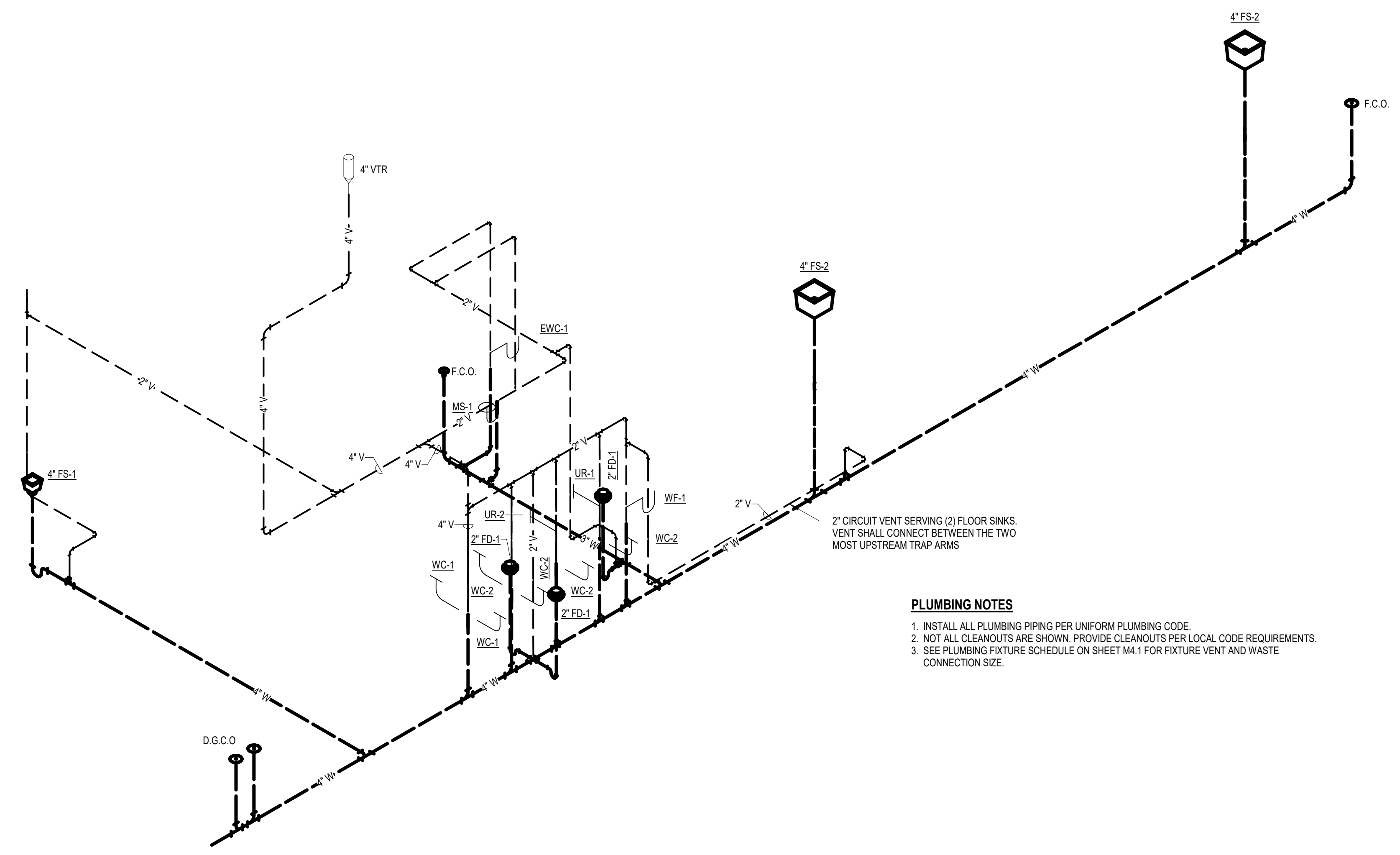
- M202 MEZZANINE ACCESS LADDER. DO NOT ROUTE PIPING IN THIS AREA. PROVIDE OFFSETS AS NECESSARY. REFER TO ARCHITECTURAL PLANS.  
M203 PROVIDE 0.5 GPM BALANCING VALVE IN HOT WATER RECIRCULATION LINE. LOCATE VALVE IN ACCESSIBLE LOCATION.



**1 MEZZANINE - MECHANICAL**  
SCALE: 1/4" = 1'-0"



**2 ENLARGED PLUMBING**  
SCALE: 1/4" = 1'-0"



- PLUMBING NOTES**
- INSTALL ALL PLUMBING PIPING PER UNIFORM PLUMBING CODE.
  - NOT ALL CLEANOUTS ARE SHOWN. PROVIDE CLEANOUTS PER LOCAL CODE REQUIREMENTS.
  - SEE PLUMBING FIXTURE SCHEDULE ON SHEET M4.1 FOR FIXTURE VENT AND WASTE CONNECTION SIZE.

**3 WASTE AND VENT RISER**  
SCALE: NTS

**CITY OF LEXINGTON  
LEXINGTON RACQUET CENTER  
Lexington, NE**

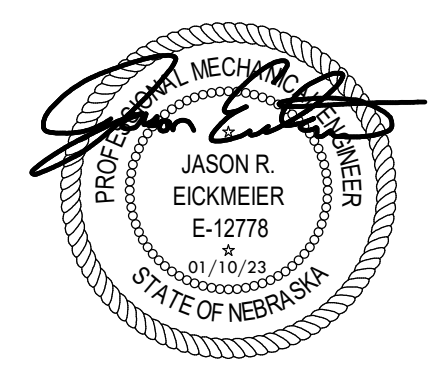
Revision/Issue	Date

ENLARGED MECHANICAL PLANS

Project Number: 2261  
Date: January 5, 2023

Copyright © 2023  
WILKINS Architecture | Design | Planning L.L.C.

Sheet Number:  
**M2.1**



MEI PROJECT # 22493  
**morrissey engineering inc**  
mechanical | electrical | lighting | technology | commissioning  
4800 North 118th Street  
Omaha, NE 68154 P  
402.491.4144  
www.morrisseyengineering.com  
© copyright  
permission to reproduce all or part of this drawing is hereby granted solely for the limited purpose of construction of this project or archiving. Unauthorized copying, disclosure or construction use without written permission of morrissey engineering, inc. is prohibited by copyright law.  
note:  
do not scale drawings. verify all dimensions and clearances from architectural, structural, shop and other appropriate drawings or as site. We act and coordinate all work prior to installation to provide clearances required for operation, maintenance, and codes and verify non-interference with other work. do not fabricate prior to verification of clearance for all trades.

CITY OF LEXINGTON  
LEXINGTON RACQUET CENTER  
Lexington, NE

Revision/Issue	Date

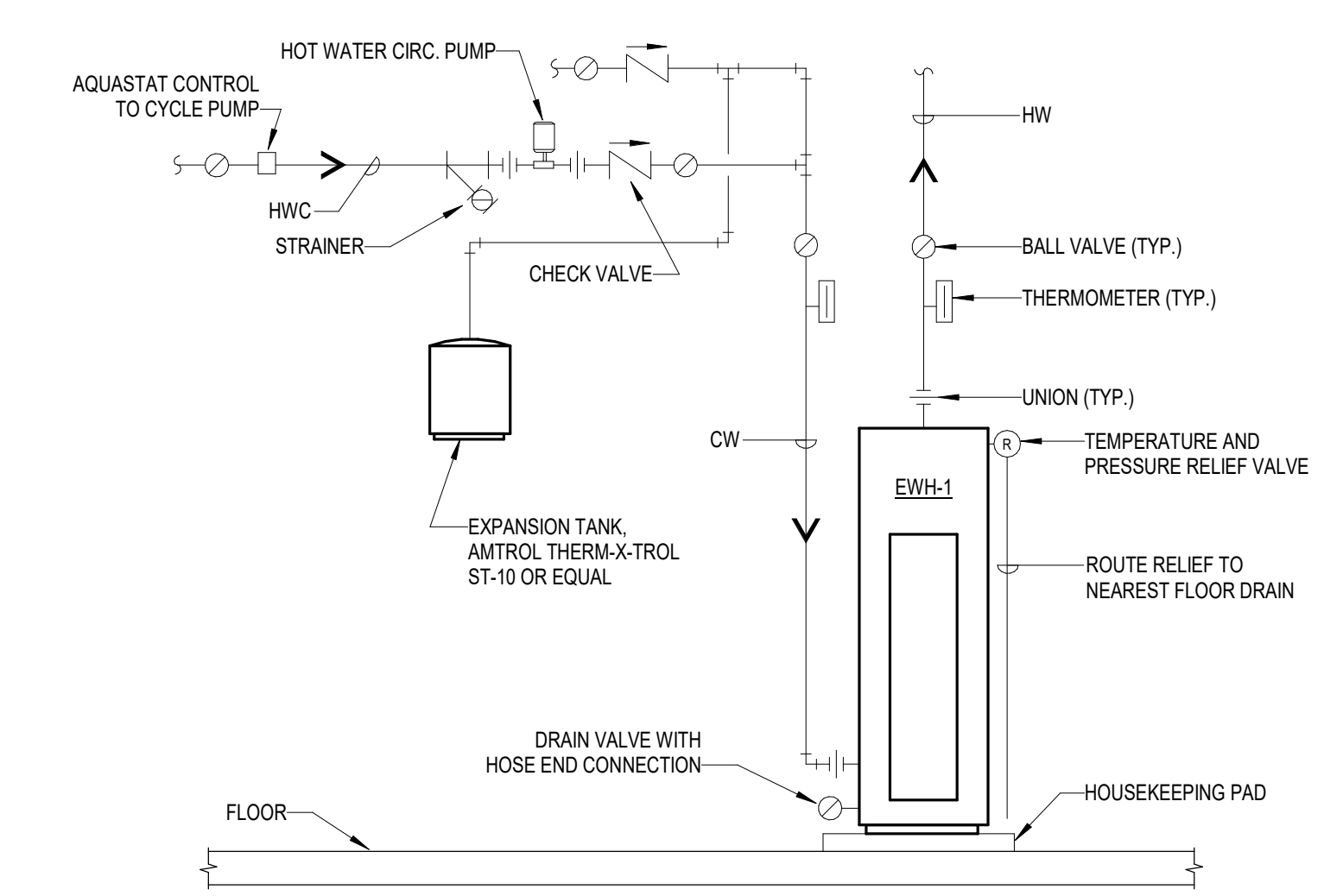
MECHANICAL DETAILS

Project Number: 2261  
Date: January 5, 2023

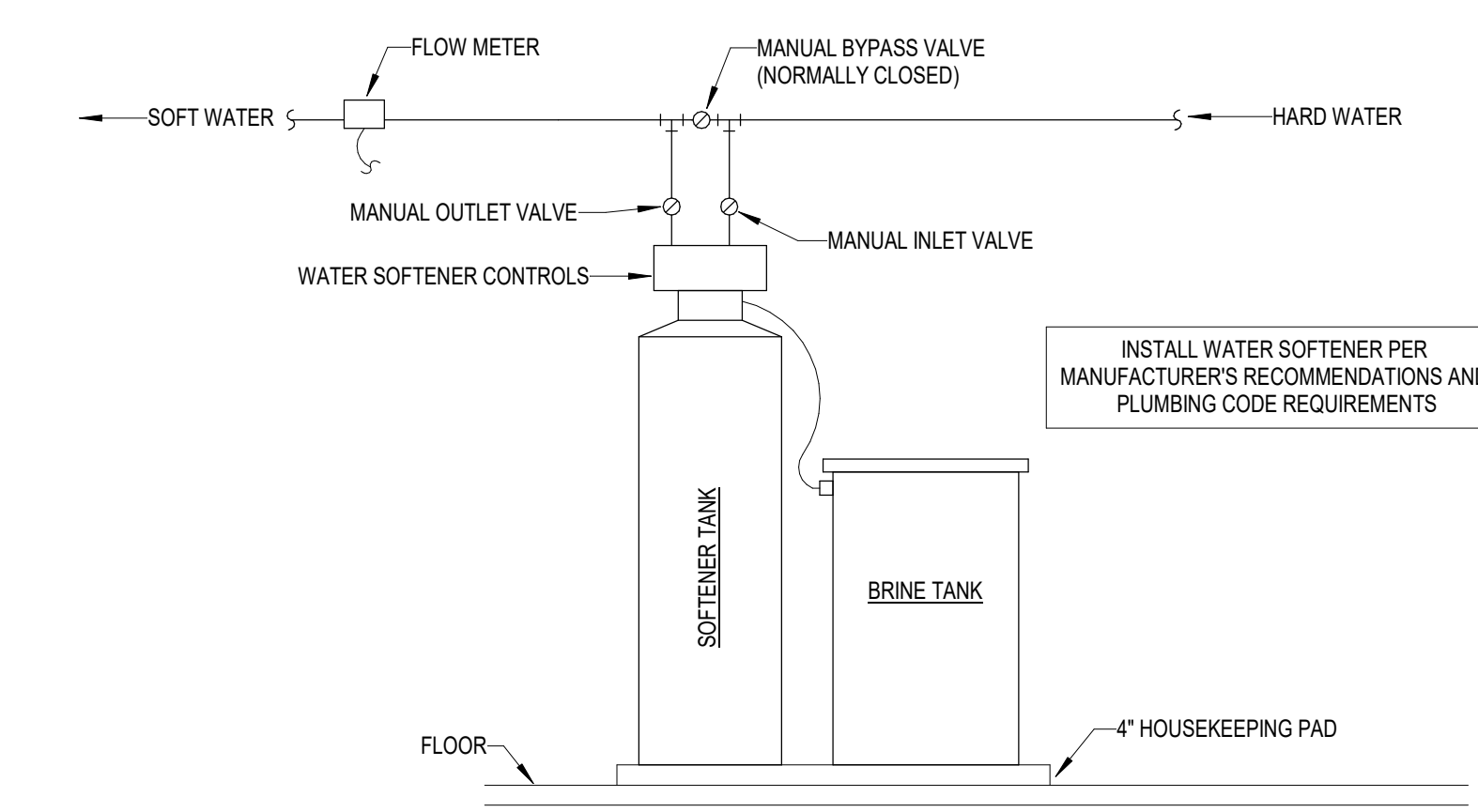
Copyright © 2023  
WILKINS Architecture | Design | Planning L.L.C.

Sheet Number:

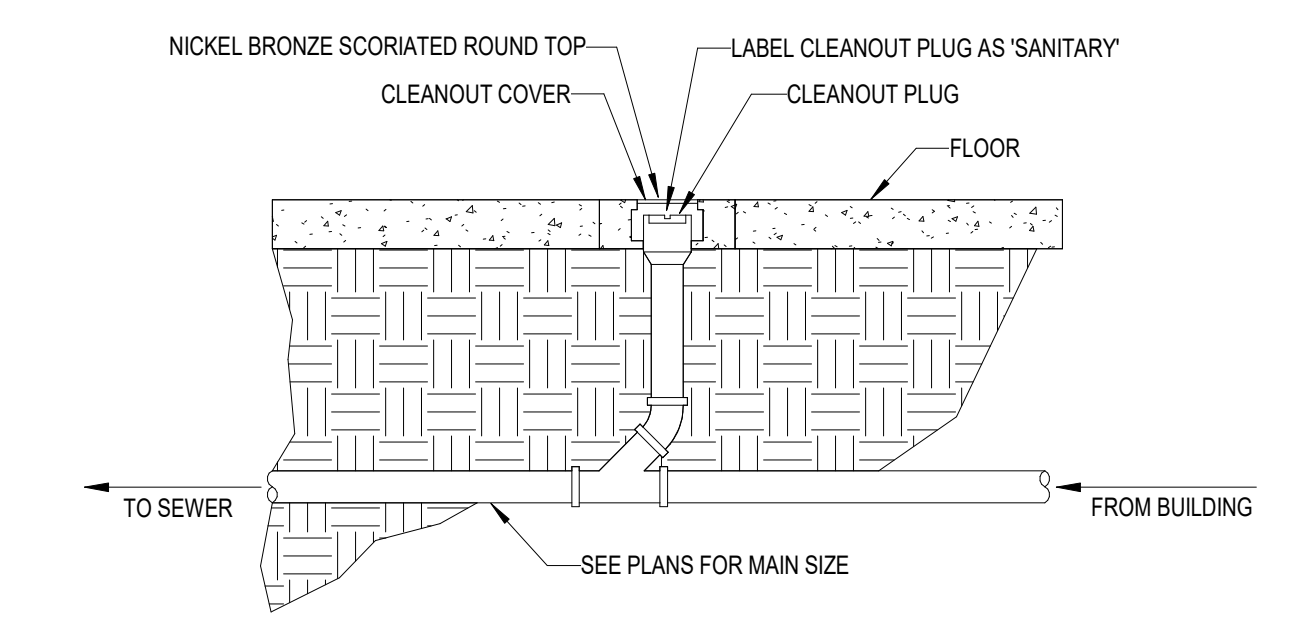
**M3.1**



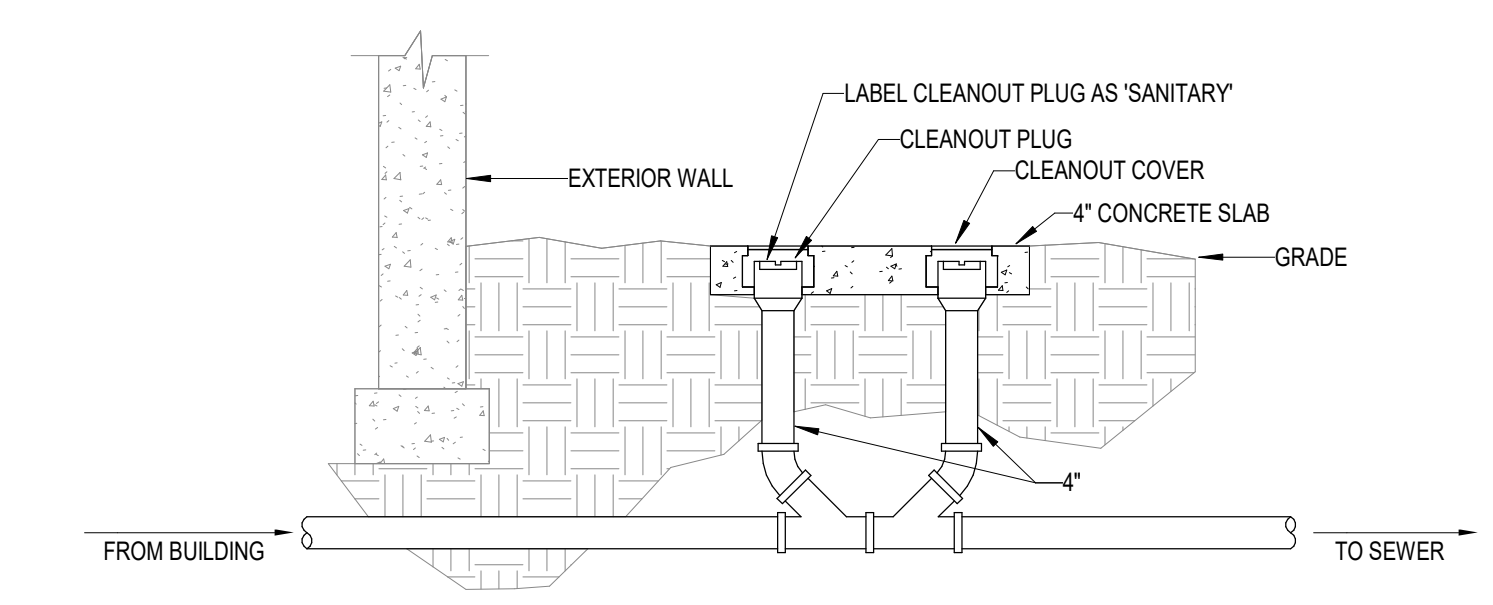
5 ELECTRIC WATER HEATER DETAIL  
M3.1 SCALE: NTS



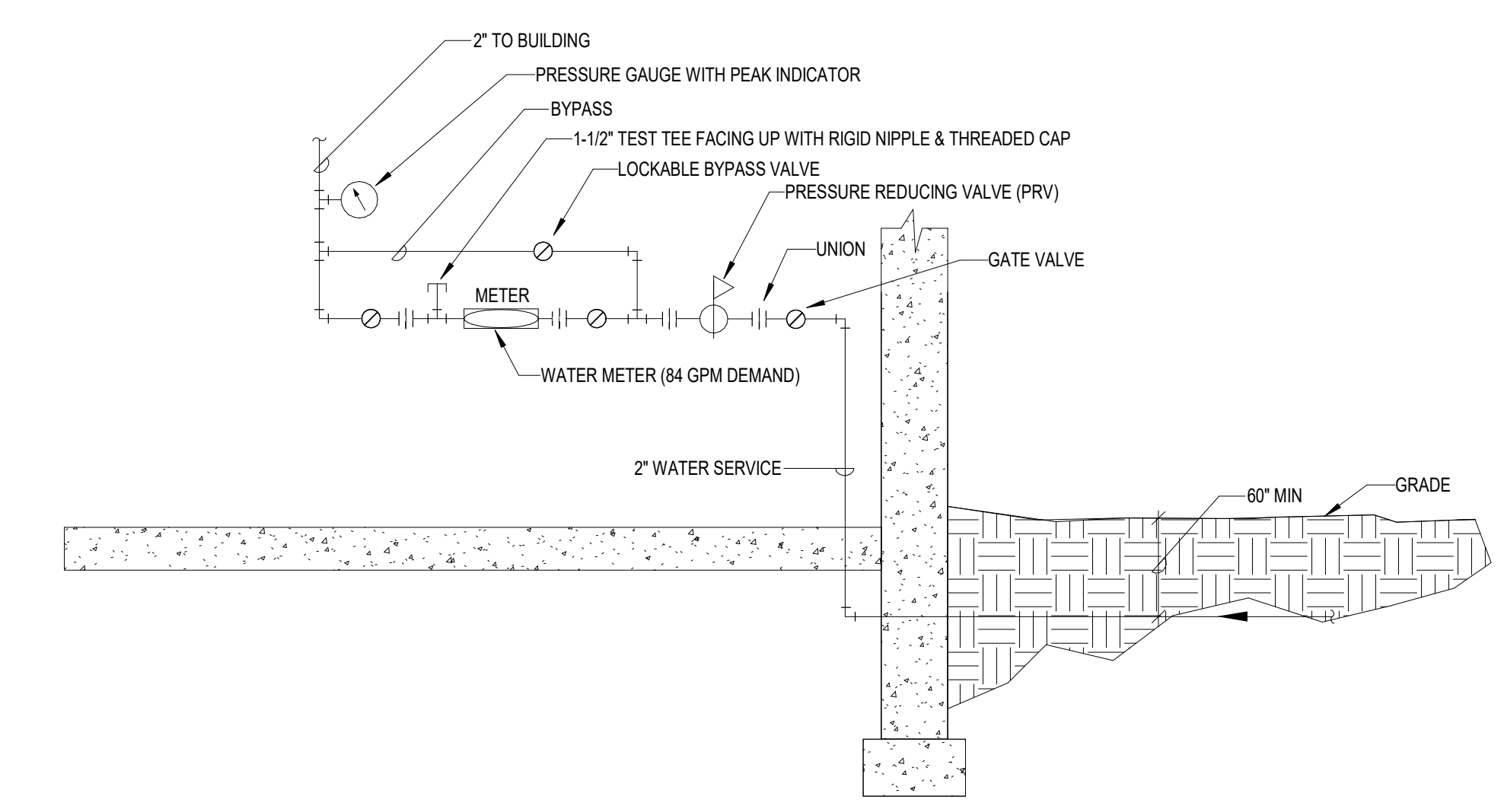
4 WATER SOFTENER DETAIL  
M3.1 SCALE: NTS



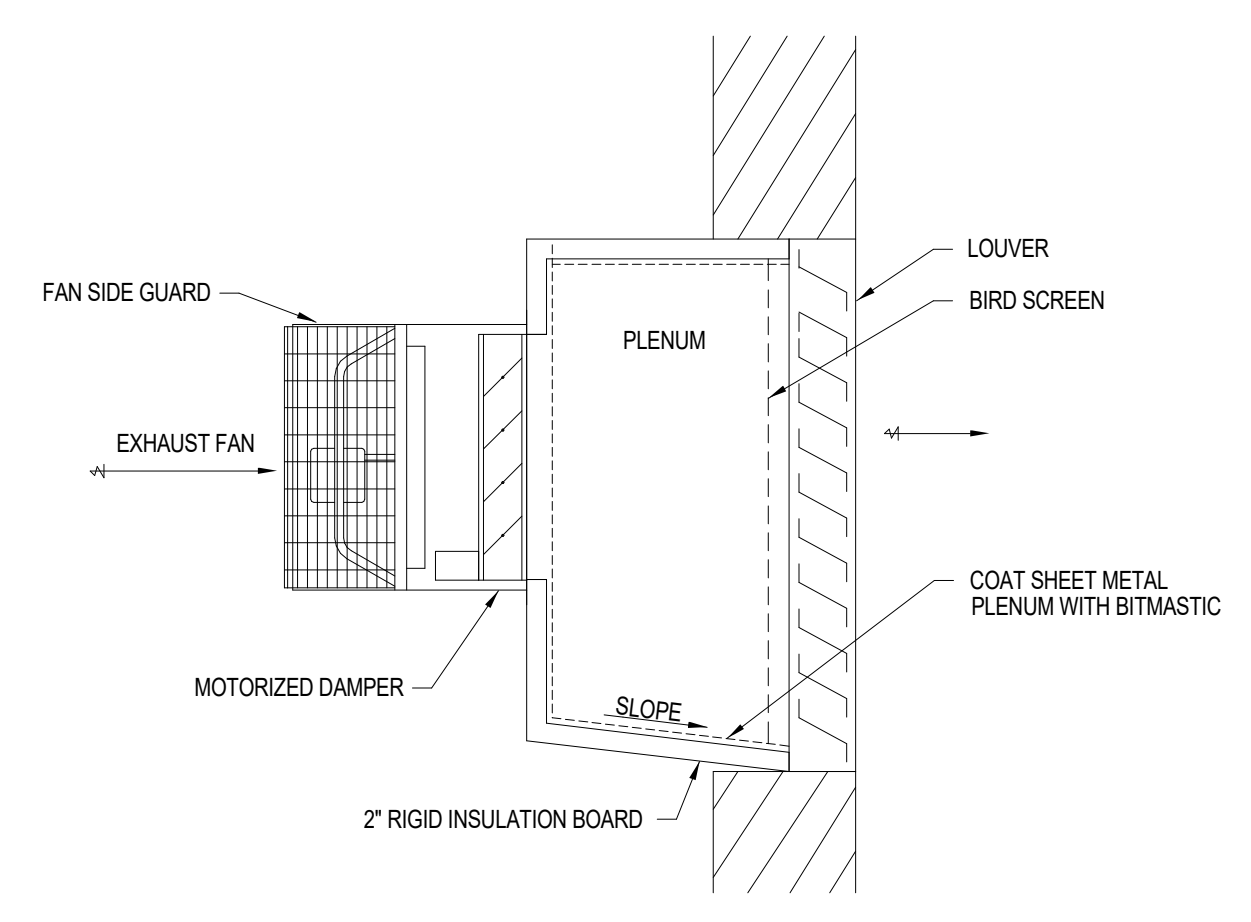
3 CLEANOUT DETAIL  
M3.1 SCALE: NTS



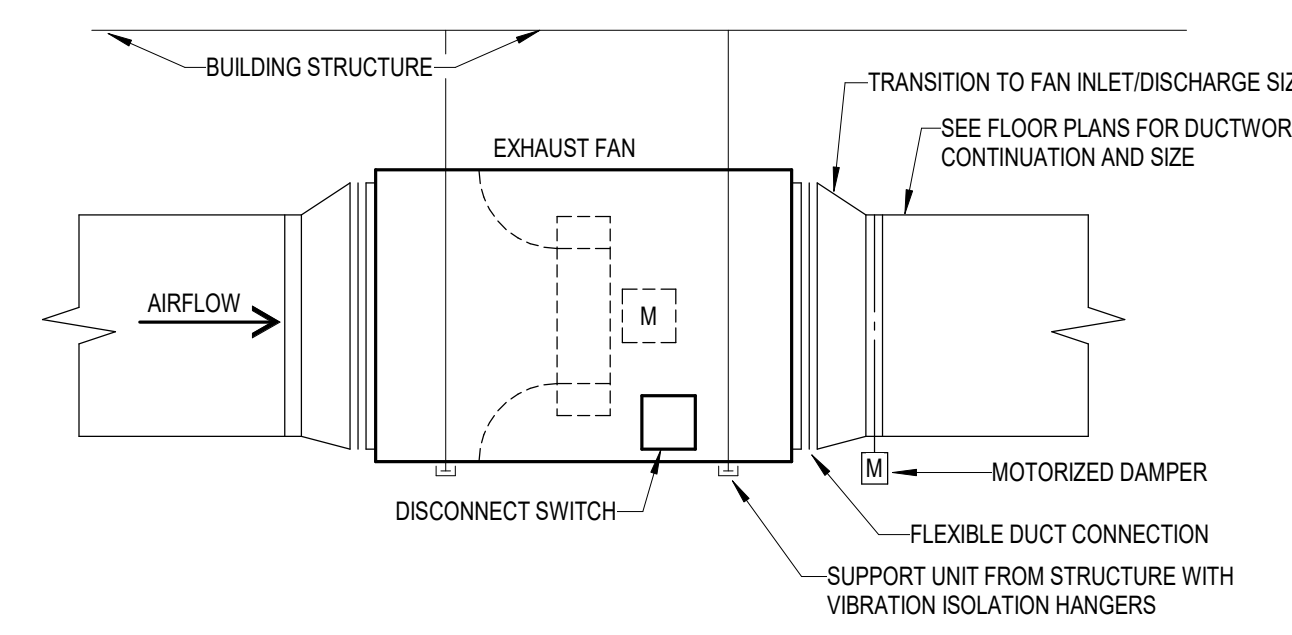
2 CLEANOUT DETAIL  
M3.1 SCALE: NTS



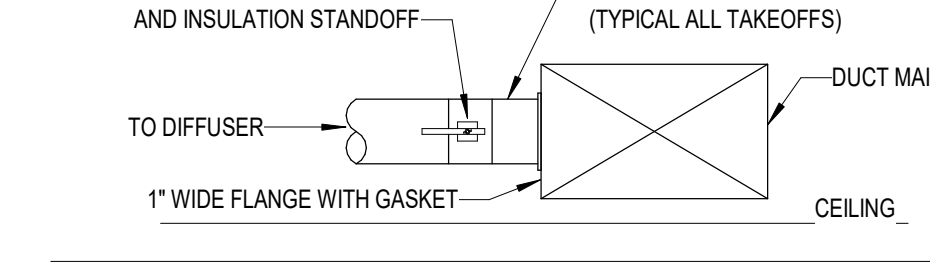
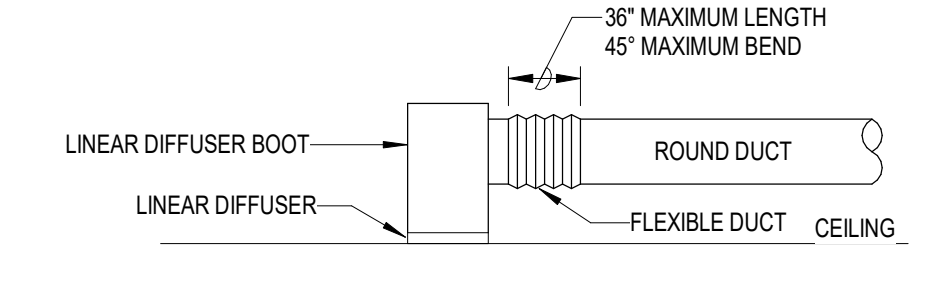
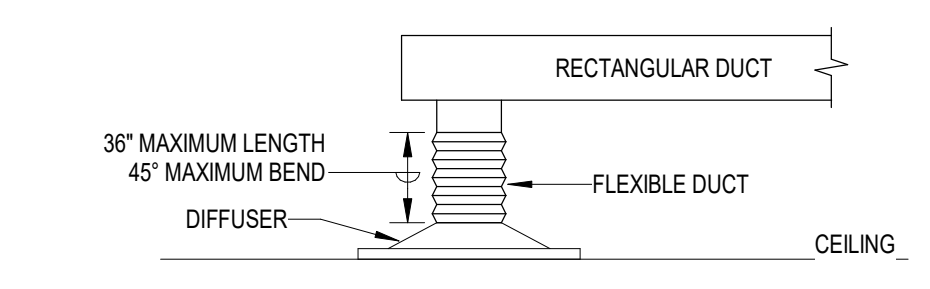
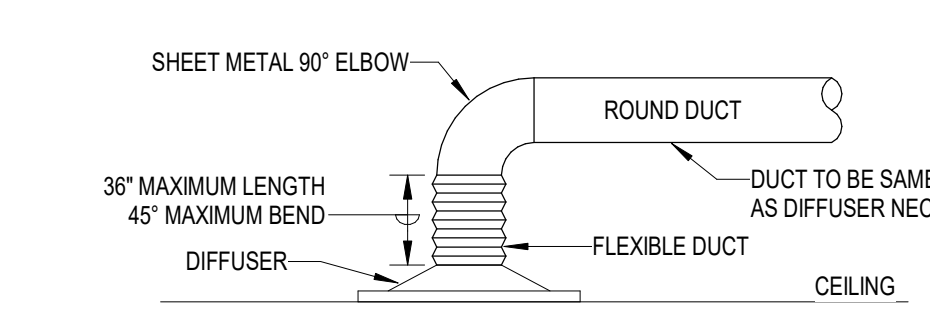
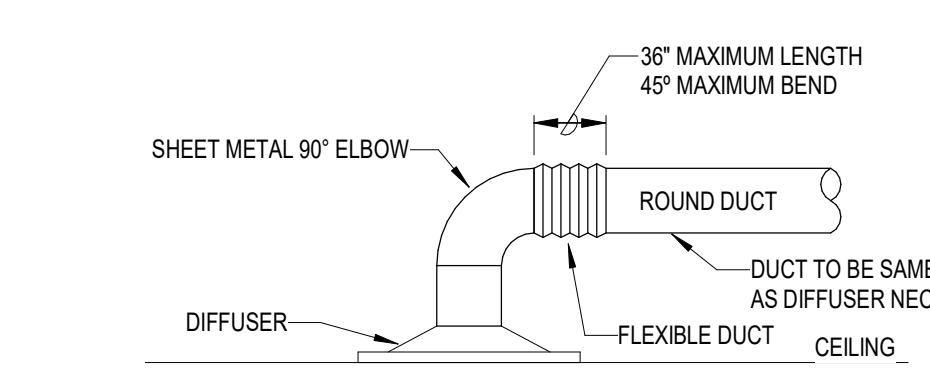
1 WATER SERVICE ENTRANCE DETAIL  
M3.1 SCALE: NTS



9 SIDEWALL PROP FAN DETAIL  
M3.1 SCALE: NTS

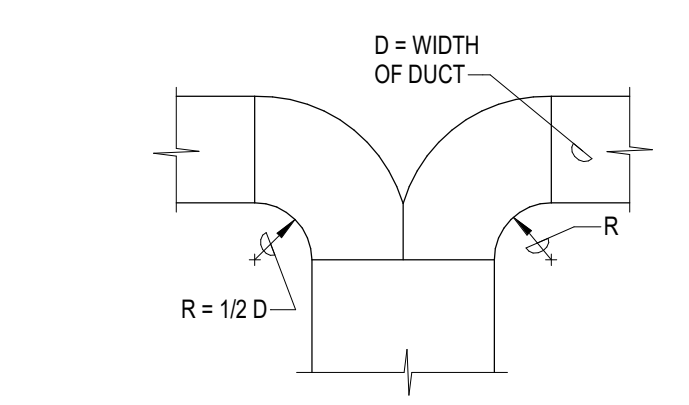


8 INLINE EXHAUST FAN DETAIL  
M3.1 SCALE: NTS

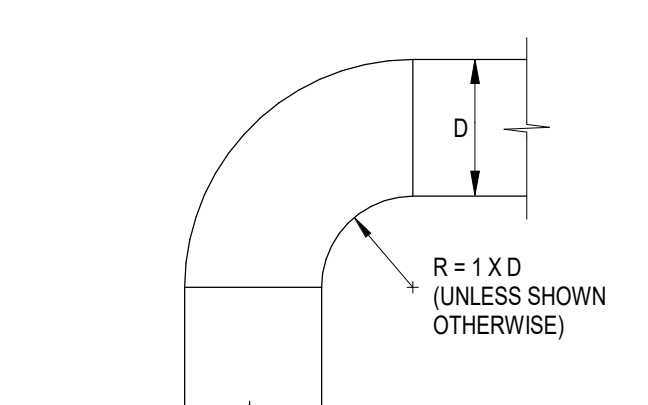


NOTES:  
1) USE OF FLEX DUCT FOR 90 DEGREE TURNS INTO DIFFUSERS WILL NOT BE ACCEPTABLE.  
2) ALL DIFFUSER RUNOUTS SHALL UTILIZE 45 DEGREE TAKEOFFS AS INDICATED. STRAIGHT TAPS WILL NOT BE ACCEPTABLE.

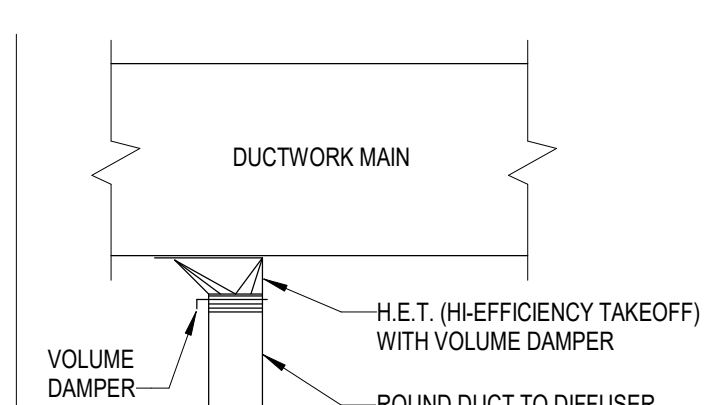
7 DIFFUSER CONNECTION DETAIL  
M3.1 SCALE: NTS



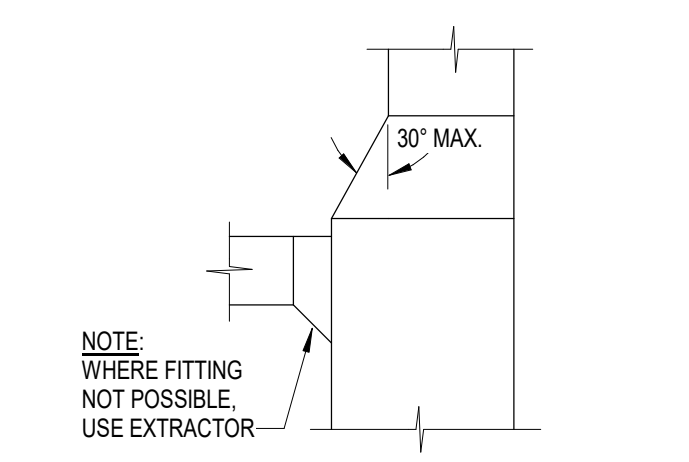
"Y" BRANCH FITTING



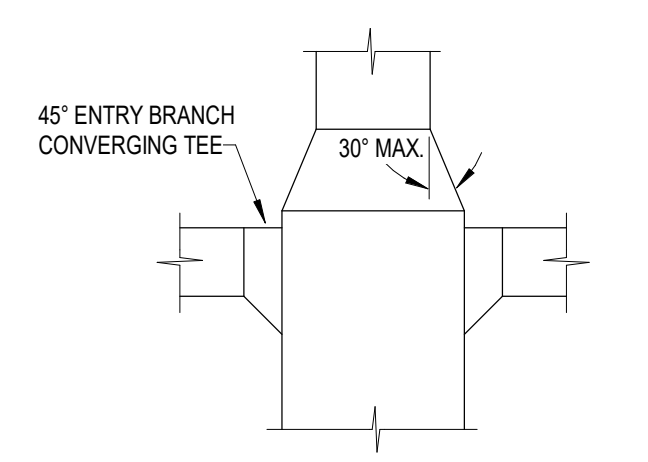
90° ELBOW



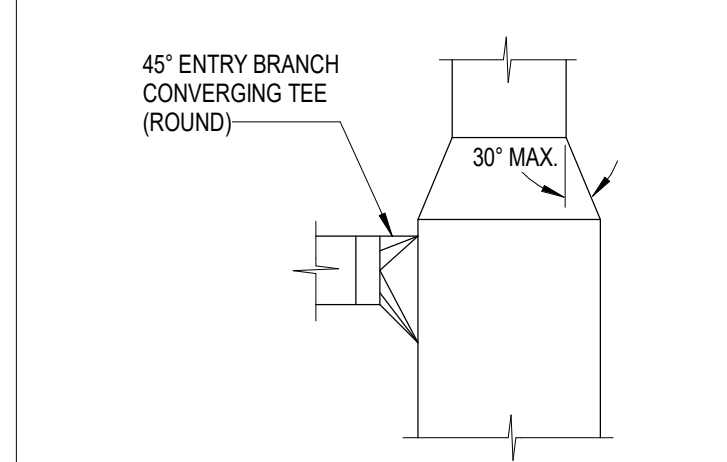
DIFFUSER TAKE-OFF



SINGLE BRANCH TAKE-OFF

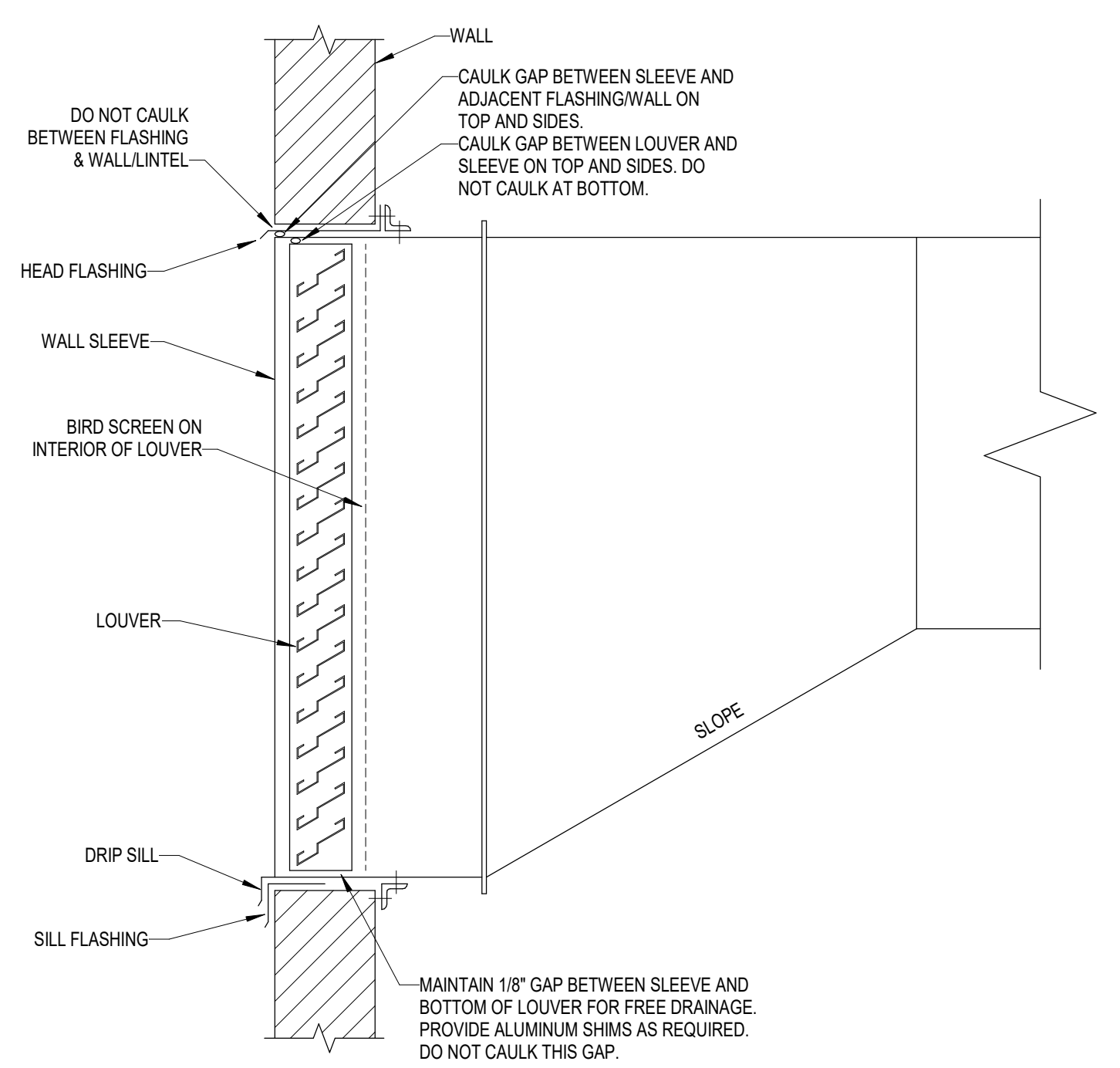


DOUBLE BRANCH TAKE-OFF



45° ROUND TAKE-OFF

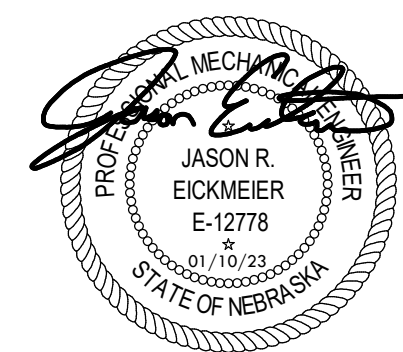
6 DUCT FITTING DETAILS  
M3.1 SCALE: NTS



10 LOUVER DETAIL  
M3.1 SCALE: NTS







MEI PROJECT # 22493

**morrissey engineering inc.**  
mechanical | electrical | lighting | technology | commissioning  
460 North 118th Street  
Orlando, NE 68164 P  
402.491.4144  
www.morrisseyengineering.com

© copyright  
permission to reproduce all or part of this drawing is hereby granted solely for the limited purpose of construction of the project or archiving. Unauthorized copying, disclosure or construction use without written permission of morrissey engineering, inc. is prohibited by copyright law.

note:  
do not scale drawings. verify all dimensions and clearances from architectural, structural, shop and other appropriate drawings or as built. We will coordinate all work prior to installation to provide clearances required for operation, maintenance, and codes and verify non-interference with other work. do not fabricate prior to verification of clearance for all trades.

**MECHANICAL SPECIFICATIONS**

**SECTION 220700 - GENERAL REQUIREMENTS FOR PLUMBING**

**A. RELATED DOCUMENTS**

- Drawings and general provisions of the Contract, including General and Supplementary Conditions apply to this Section.
  - Division 22 and 23 Conditions apply to this Section.
- B. SUMMARY**
1. This Section includes general mechanical requirements and shall apply to all phases of the work specified indicated on the drawings or required to provide for complete installation of plumbing systems.
2. Refer to Section 230100 for General Requirements for Mechanical
3. Refer to Section 230500 for Basic Mechanical Materials and Methods

**SECTION 220720 - PIPE INSULATION FOR PLUMBING**

- A. MINERAL-FIBER INSULATION:** Glass fibers bonded with a thermosetting resin. Preformed Pipe Insulation: Comply with ASTM C 547, Type 1, with factory-applied, all-purpose, vapor-retarder jacket. Flame-spread rating of 25 or less, and smoke-developed rating of 50 or less. Apply insulation to pipes by securing each layer of preformed pipe insulation to pipe with wire, tape, or bands without deforming insulation materials.
- B. VAPOR RETARDER:** On piping systems operating below ambient space temperature, seal joints and seams with vapor-retarder mastic. Seal penetrations in insulation at hangers, supports, anchors, and other projections with vapor-retarder mastic Mastics.
- C. INSULATION APPLICATION SCHEDULE,** see Piping Insulation Schedule on Sheet M4.1.

**SECTION 221118 - WATER DISTRIBUTION PIPING**

- A. DOMESTIC WATER PIPING:** Above ground; hard copper tube, ASTM B 88, Type L; copper, 95-5 solder-joint fittings; and soldered joints.
- B. VALVES:** Provide ball isolation valves close to main on each branch and riser serving plumbing fixtures or equipment, and where indicated. Provide ball valve for throttling where indicated. Provide supply stops at each plumbing fixture. Provide calibrated or automatic balancing valves as indicated.
- C. TESTING:** Test water distribution piping according to authority having jurisdiction. Clean and disinfect water distribution piping. Fill water piping. Check components to determine that they are not air bound and that piping is full of water.

**SECTION 221216 - DRAINAGE AND VENT PIPING**

- A. ABOVEGROUND, SANITARY WASTE AND VENT AND STORM PIPING:** CISPI 301, ASTM A888, Hubless, cast-iron soil pipe, hubless, cast-iron, soil-pipe fittings and hubless, cast-iron, Neoprene sleeve coupling with stainless steel clamps. PVC Plastic Pipe (ASTM D 2665, solid wall, Schedule 40), PVC Socket Fittings (ASTM D 2865, made to ASTM D 3311 drain, waste, and vent pipe patterns), and solvent cemented joints. Do not install PVC piping in return air plenums.
- B. UNDERGROUND, SANITARY WASTE, AND VENT AND STORM PIPING:** ASTM A74, Hub-and-spigot, cast-iron soil pipe, Service class, hub-and-spigot, cast-iron, soil-pipe fittings, lead & oakum or compression joints. PVC Plastic Pipe (ASTM D 2665, solid wall, Schedule 40), PVC Socket Fittings (ASTM D 2665, made to ASTM D 3311 drain, waste, and vent pipe patterns), and solvent welded joints.
- C. PIPING INSTALLATION:** Make changes in direction for drainage and vent piping using appropriate branches, bands, and long-sweep bends. Do not make change in direction of flow greater than 90 degrees. Lay buried building drain piping beginning at low point of each system. Install true to grades and alignment indicated, with unbroken continuity of invert. Place hub ends of piping upstream. Install required gaskets according to manufacturer's written instructions.
- D. SLOPE:** Install drainage and vent piping at the following minimum slopes, unless otherwise indicated:
- Sanitary Piping: 2 percent downward in direction of flow for piping 3-inch NPS and smaller; 1 percent downward in direction of flow for piping 4-inch NPS and larger.
  - Vent Piping: 1 percent down toward vertical fixture vent or toward vent stack.
- E. TESTING:** Test drainage and vent piping according to procedures of authorities having jurisdiction

**SECTION 221219 - PLUMBING SPECIALTIES**

- A. WATER PRESSURE REGULATORS:** water regulators, rated for initial working pressure of 150 psig minimum, of size, flow rate, and inlet for 80 psig outlet pressure. Install on building service piping.
- B. WALL CLEANOUTS (WCO):** Cast iron or PVC body adaptable to pipe with cast bronze, brass or PVC cleanout plug; stainless steel cover, vandal proof screws. Install as shown and as required by code.
- C. CLEANOUTS (CO):** PVC, Cast iron or brass, threads complying with ANSI B2.1, countersunk head. Engrave heads to identify system.
- D. FLOOR CLEANOUTS (FCO):** Cast iron body and frame with cleanout plug and adjustable round nickel bronze top.
- Exposed finish type, standard mill finish.
  - Exposed flush type, standard non-slip scored or abrasive finish.
- E. VENT FLASHING (VTR):** 24" square minimum. Non-plasticized, chlorinated, polyethylene, concealed, waterproof membrane, 0.40" thick, solvent weldable or Lead sheet, 2-1/2" b'is't, concealed.

**224200 PLUMBING FIXTURES**

- A. Installation:** Install handles for accessible water closets and urinals with handle mounted on wide side of compartment. Install individual stop valve in each water supply to fixture. Install water-supply stop valves in accessible locations. Install traps on fixture outlets. Omit traps on fixtures having integral traps and on indirect wastes. Vent all fixtures as required by local code. Seal joints between fixtures and walls, floors, and counters using sanitary-type, 1-part, mildew-resistant, silicone sealant. Match sealant color to fixture color. Install hot and cold water supply, waste and vent piping of sizes indicated, but not smaller than required by authorities having jurisdiction
- B. See Plumbing Fixture Schedule on sheet M4.1 for plumbing fixture specifications.**

**SECTION 230100 - GENERAL REQUIREMENTS FOR MECHANICAL**

- A. WARRANTIES -** All materials, workmanship and equipment shall be warranted against defects or against injury from proper and usual wear for a period of one year after the date of substantial completion. Any item that becomes defective within the warranty period shall be repaired or replaced, at no additional cost to the Owner. Warranty shall include repair of faulty workmanship.
- B. DEFINITIONS ABBREVIATIONS -** The following shall apply throughout the contract documents:
- Furnish** Supply and deliver to site ready for installation  
**Indicated** Noted, scheduled or specified  
**Provide** Furnish, install and connect complete and ready for final use
- ANSI** American National Standards Institute  
**ASME** American Society of Mechanical Engineers  
**ASHRAE** American Society of Heating, Refrigeration and Air Conditioning Engineers  
**NEC** National Electric Code (NFPA 70)  
**NEMA** National Electrical Manufacturers Association  
**NFPA** National Fire Protection Association  
**SMACNA** Sheet Metal and Air Conditioning Contractors National Association  
**UL** Underwriters Laboratories Inc.

- C. CODES AND STANDARDS -** All work shall be performed by competent craftsmen skilled in the trade involved and shall be done in a manner consistent with normal industry standards. All work shall conform to the currently adopted edition of the National Electric Code (NEC), Local Building Code, Local Plumbing Code, Local Mechanical Code, Local Fire Code, and all other applicable state and local codes or standards. Where there is a conflict between the code and the contract documents, the code shall have precedence only then it is more stringent than the contract documents.
- D. PERMITS -** Contractor shall become familiar and comply with all requirements regarding permits, fees, licenses, etc. All permits, licenses, inspections and arrangements required for the work shall be obtained by Contractor's effort and expense. All utilities shall be installed in accordance with the local rules and regulations and all charges shall be paid by the Contractor.
- E. SUBMITTALS -** Shop drawings shall be submitted to Architect/Engineer for all items of mechanical equipment including the following:
- Diffusers, Registers, Grilles  
Sheet Metal Accessories  
HVAC equipment  
Plumbing Fixtures  
Plumbing Specialties

- Shop drawings include fabrication and installation drawings, diagrams, schedules and other data specifically prepared for the project. Include dimensions and notations showing compliance with specified standards.
  - Architect/Engineer will review or take appropriate action for submittals. Review is only to determine general conformance with design shown in contract documents. Review of submittals shall not relieve contractor of responsibility for deviation from requirements of the contract documents or from errors or omissions within submittals.
- F. MATERIALS -** All materials and equipment used in the construction of the project shall be new unused and undamaged unless otherwise specified. Materials and equipment shall be of latest design standards of manufacturer specified. Verify installation details and requirements for materials and equipment furnished by others and installed under this contract.

**G. DEMONSTRATION AND TRAINING -** Instruct Owner's personnel to adjust, operate, and maintain mechanical systems. Schedule training with Owner at least seven days' advance notice.

**H. STARTING AND ADJUSTING -** Start and test all equipment and operating components to confirm proper operation. Test and adjust all systems to achieve designed capacity and performance. All equipment and systems discrepancies shall be corrected prior to final acceptance.

**SECTION 230500 - BASIC MECHANICAL MATERIALS AND METHODS**

- A. PIPING INSTALLATION:** Install piping at required slope. Install components with pressure rating equal to or greater than system operating pressure. Install piping in concealed locations, except in equipment rooms and service areas. Install piping free of sags and bends. Install piping at right angles or parallel to building walls. Install piping tight to slabs, beams, joists, columns, walls, and other building elements. Locate groups of pipes parallel to each other, spaced to permit valve servicing. Install fittings for changes in direction and branch connections. Install pipe escutcheons for exposed pipe penetrations walls and ceilings. Install sleeves for pipes passing through concrete and masonry walls, and concrete floor and roof slabs. Provide dielectric fitting where two different types of pipe materials are joined. Comply with MSS-66 for pipe hanger selection and application.
- B. EQUIPMENT INSTALLATION:** Install equipment per manufacturer's recommendations. Install equipment as high as possible. Install equipment level and plumb, parallel and perpendicular to building. Install mechanical equipment to facilitate service, maintenance, and repair or replacement of components. Connect equipment for ease of disconnecting, with minimum interference to other installations. Install equipment giving right of way to piping installed at required slope.

**C. LABELING AND IDENTIFYING**

- Piping:** Provide pipe markers on each system where pipe is exposed to view and above removable ceilings. Include pipe description of system and arrows showing normal direction of flow.
- Equipment:** Install engraved plastic-laminate sign or equipment marker on or near each major item of mechanical equipment.

**D. CUTTING AND PATCHING:** Cut, channel, chase, and drill floors, walls, partitions, ceilings, and other surfaces necessary for mechanical installations. Perform cutting by skilled mechanics of trades involved. Repair cut surfaces to match adjacent surfaces.

**SECTION 230592 - TESTING, ADJUSTING, AND BALANCING**

- A. Examine** air-handling equipment to ensure clean filters have been installed, bearings are greased, belts are aligned and tight, and equipment with functioning controls is ready for operation. Check dampers for proper position.
- B. Perform** testing and balancing procedures on each system according to the procedures contained in NEBB's "Procedural Standards for Testing, Adjusting, and Balancing of Environmental Systems" and this Section.
- C. Adjust** fans to deliver total design airflow within the maximum allowable rpm listed by the fan manufacturer. Provide new fan sheaves as required. Measure fan airflow, static pressure, rpm and amp draw.
- D. Adjust** volume dampers for to achieve design airflow within 10% of specified values. Adjust diffusers, registers and grilles. Adjust minimum and maximum outside airflow.
- E. Prepare** report listing date, project information, equipment data and measured airflow results. Report shall include drawing indicating locations of air outlets and final measured airflow of each outlet. Submit four copies of report to engineer for review.

**SECTION 230700 - DUCT INSULATION**

- A. MINERAL-FIBER BLANKET THERMAL INSULATION:** Glass fibers bonded with a thermosetting resin. Comply with ASTM C 550, Type II, with all-service jacket, manufactured from kraft paper, reinforcing scrim, aluminum foil, and vinyl film. Flame-spread rating of 25 or less, and smoke-developed rating of 50 or less. Apply insulation materials, accessories, and finishes according to the manufacturer's written instructions with the least number of joints practical. Seal joints and seams with vapor-retarder mastic on cold air ducts. Seal penetrations in insulation at hangers, supports, anchors, and other projections with vapor-retarder mastic.
- B. APPLICATION SCHEDULE -** See Duct Insulation Schedule on Sheet M4.1.

**SECTION 233113 - METAL DUCTS AND ACCESSORIES**

- A. GENERAL:** Drawings indicate general arrangement of ducts, fittings, and accessories. Minor modifications to route, size and shape of duct may be made to meet structural and other interference. Changes which could affect system performance shall be reviewed by Architect/Engineer prior to fabrication or installation of duct. Coordinate layout with suspended ceiling, fire- and smoke-control dampers, lighting layouts, and similar finished work.
- B. DUCT FABRICATION:** Sizes shown on plans are inside clear dimensions. Ductwork utilizing duct liner shall be increased in size to accommodate the duct liner thickness.
- C. MATERIAL:** Construct all rectangular and round ducts from galvanized sheet steel. Lock-forming quality; ASTM A 653/A 653M, G90 coating designation; mill-phosphatized finish for surfaces of ducts exposed to view.
- D. QUALITY ASSURANCE:** Fabricate and install duct per SMACNA's "HVAC Duct Construction Standards--Metal and Flexible" and applicable codes. Comply with requirements for metal thickness, reinforcing types and intervals, tie-rod applications, and joint types and intervals. Comply with NFPA 90A, "Installation of Air Conditioning and Ventilating Systems," unless otherwise indicated.
- E. PRESSURE CLASS:** Unless otherwise noted construct all ducts to 2.0" WG positive or 2.0" WG negative pressure class.
- F. DUCT SEALING:** UL classified, non-combustible, flame spread 25 or less, smoke developed rating of 540 or less, resistant to water, pressure rupture rating of 16" WG minimum, suitable for use alone or with tape, application an operational temperature ranges appropriate for usage. Seal all duct per SMACNA class "C" duct seal requirements.
- G. TURNING VANES:** Fabricate of 1-1/2" wide, curved blades 3/4" on center. Provide turning vanes in all mitered elbows and duct turns.
- H. DUCT ACCESS DOORS:** Install insulated duct access doors with hinges and latches for access to inlet side of coils, equipment, control dampers, fire dampers, and smoke dampers.
- I. VOLUME DAMPERS:** Fabricate single blade dampers for duct sizes 9 1/4" high x 30" with maximum blade sizes 6" x 48" for larger ducts. Provide end bearings with end seals for pressure class required except in round duct 12" in diameter and smaller. Provide locking indicating quadrant regulators on all volume dampers. Mark ends of damper shanks for open/closed indication. Insulated ducts to have elevated dial indicators. Motorized dampers to have 115 volt operators. Provide manual volume dampers at branch take-offs and as shown. Provide motorized dampers as indicated.
- J. FLEXIBLE CONNECTORS:** Flame-retarded or noncombustible fabrics, coatings, and adhesives complying with UL 181, Class 1. Neoprene double-coated woven glass fiber fabric in accordance with NFPA 90A, suitable for temperatures and pressures of application, approximately 6" wide, crimped into metal edge strip. Provide flexible connections to motor driven equipment.
- K. FLEXIBLE DUCTS:** Factory-fabricated, insulated, round duct, with an outer jacket enclosing 1-1/2-inch-thick, glass-fiber insulation around a continuous inner liner, steel-wire helix encapsulated in polyethylene inner liner. Comply with UL 181, Class 1. Final connectors to air outlets and terminal units may be made with flexible duct. Install flexible ducts with metal collars or sleeves with draw bands. Length of flexible duct shall not exceed 36' path shall not exceed 45'.

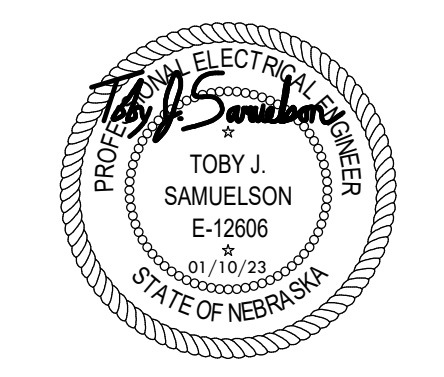
Revision/Issue	Date

MECHANICAL SPECIFICATIONS

Project Number: **2261**  
Date: **January 5, 2023**

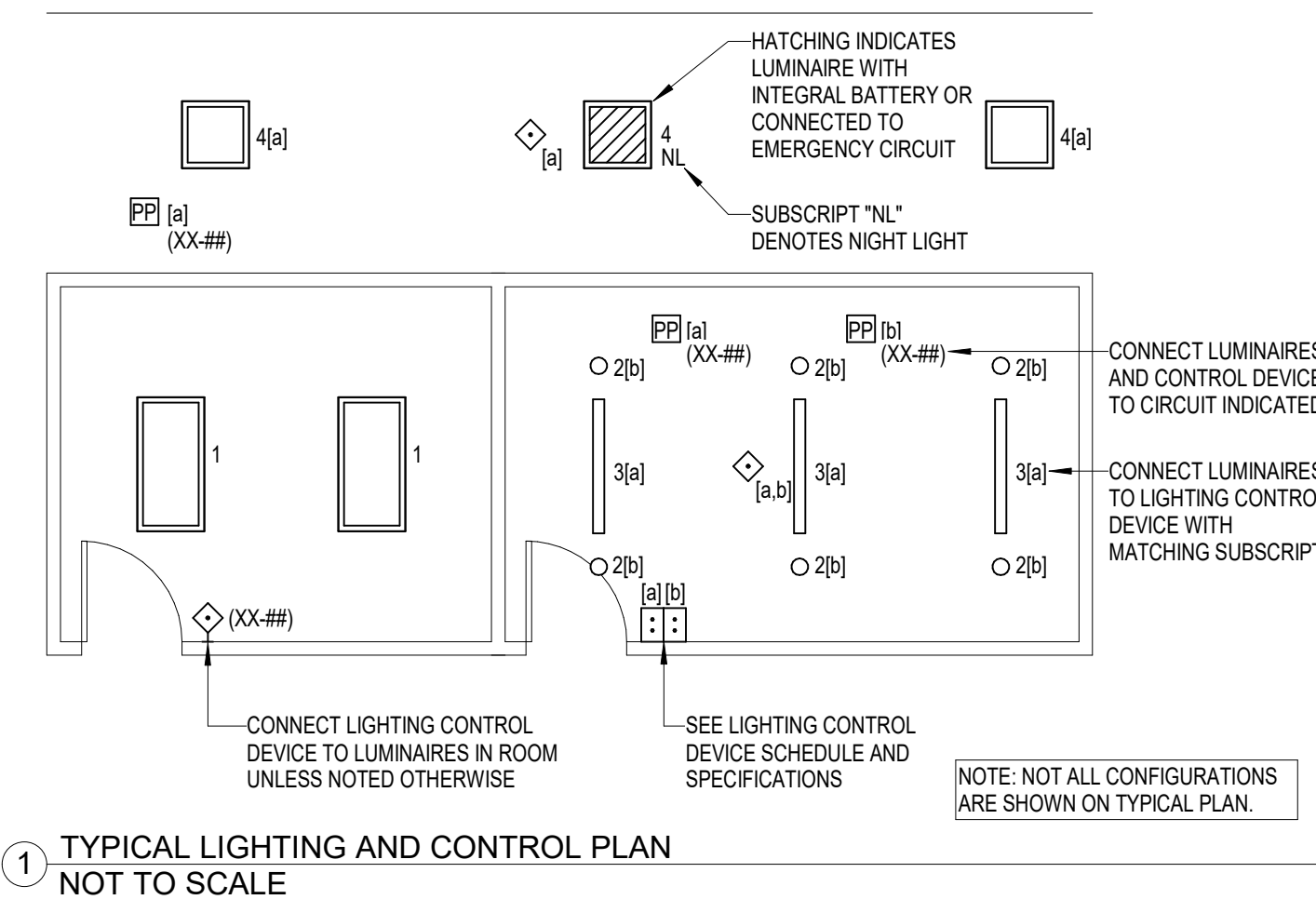
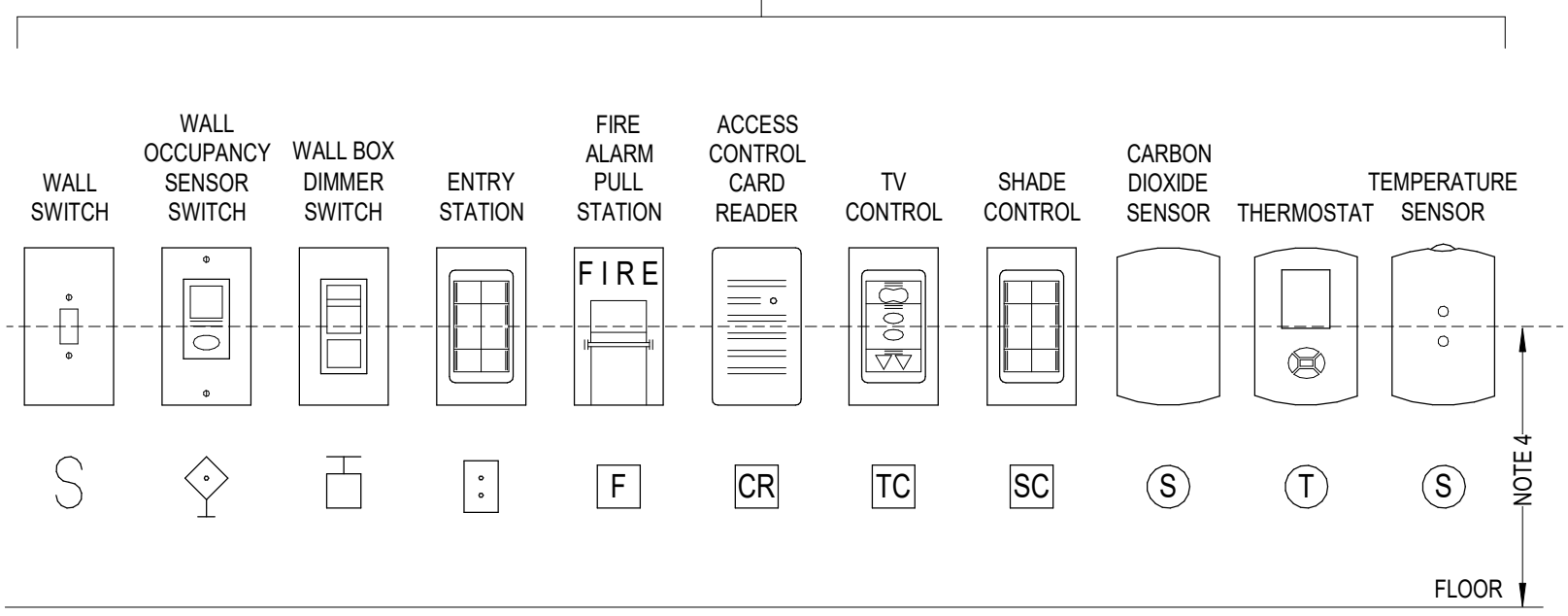
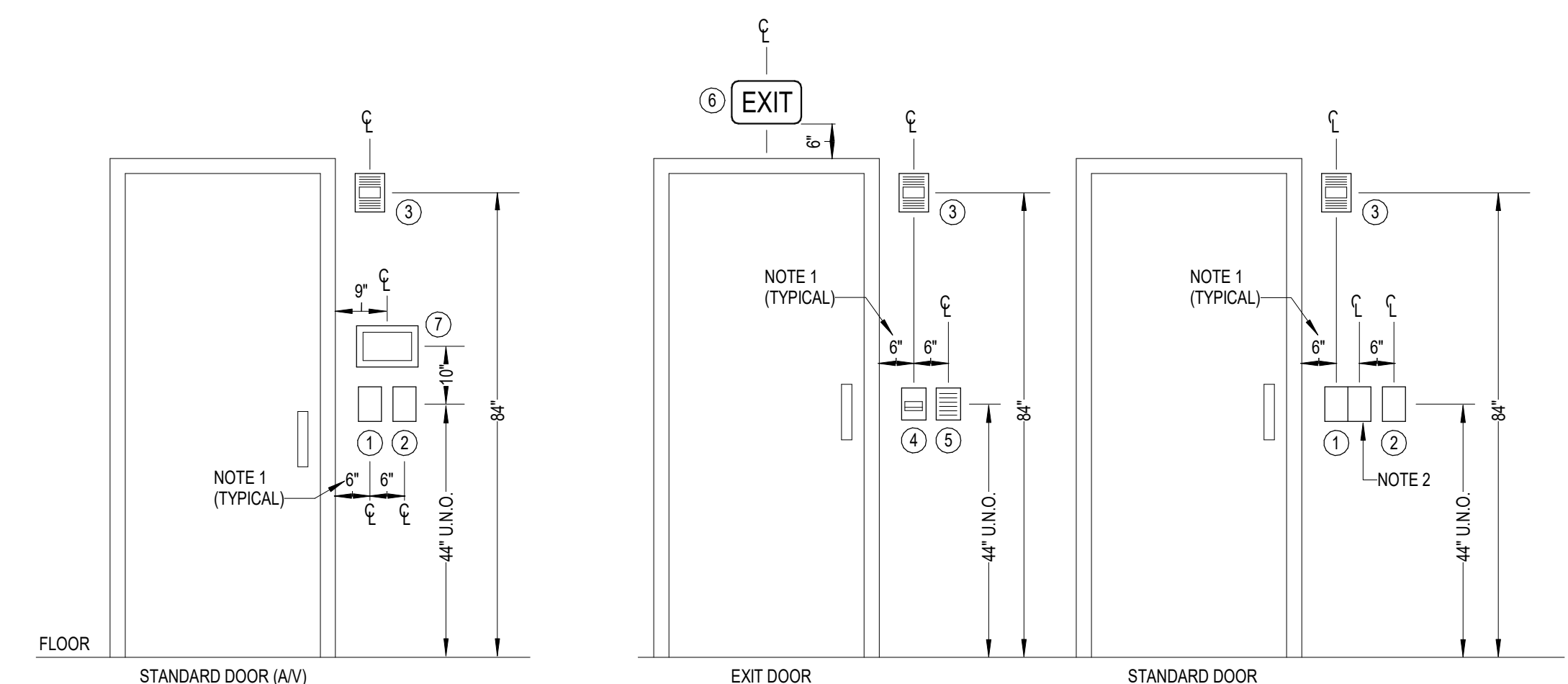
Copyright © 2023  
WILKINS Architecture | Design | Planning L.L.C.

Sheet Number:  
**M5.1**



MEI PROJECT # 22493  
**morrissey engineering inc.**  
mechanical | electrical | lighting | technology | commissioning  
400 North 118th Street  
Orlando, NE 68144 P  
402.491.4144  
www.morrisseyengineering.com  
© copyright  
permission to reproduce all or part of this drawing is hereby granted solely for the limited purpose of construction of the project or archiving. Unauthorized copying, disclosure or construction use without written permission of Morrissey Engineering, Inc. is prohibited by copyright law.  
note:  
do not scale drawings. verify all dimensions and clearances from architectural, structural, shop and other appropriate drawings or as built. We will coordinate all work prior to installation to provide clearances required for operation, maintenance, and codes and verify any interference with other work. do not fabricate prior to verification of clearance for all trades.

ELECTRICAL SYMBOLS			
SYMBOL	DESCRIPTION	SYMBOL	DESCRIPTION
<b>LIGHTING</b>			
○	LUMINAIRE	○	SINGLE POLE SWITCH
○	LUMINAIRE CONNECTED TO EMERGENCY CIRCUIT OR BATTERY	○	2-WAY SWITCH
○	STYLIZED LUMINAIRE	○	4-WAY SWITCH
○	WALL MOUNTED LUMINAIRE	○	WALL BOX DIMMER SWITCH
○	TRUCK LUMINAIRE	○	CEILING MOUNTED MOTION SENSORSWITCH
○	WALL MOUNTED LUMINAIRE	○	CEILING MOUNTED MOTION SENSORSWITCH
○	TRUCK LUMINAIRE	○	WALL MOUNTED MOTION SENSORSWITCH WITH 5-IN DIMMING
○	EMERGENCY BATTERY PACK	○	LOW VOLTAGE LEFTING CONTROL SWITCH
○	CEILING MOUNTED EXIT LIGHT WITH DIRECTIONAL ARROW	○	WALL MOUNTED PHOTOCELL
○	WALL OR FLOOR MOUNTED EXIT LIGHT WITH DIRECTIONAL ARROW	○	CEILING MOUNTED PHOTOCELL
<b>FIRE ALARM</b>			
○	FIRE ALARM BELL DETECTOR	○	FIRE ALARM BELL (THREE COMBINATION)
○	FIRE ALARM HEAT DETECTOR	○	FIRE ALARM BELL AND STROBE COMBINATION
○	DUCT MOUNTED SMOKE DETECTOR	○	CEILING FIRE ALARM STROBE
<b>POWER</b>			
○	DUPLEX RECEPTACLE	○	CEILING MOUNTED DOUBLE DUPLEX RECEPTACLE
○	1" DENOTES GFCI TYPE	○	FLOOR RECL. COMBINATION POWER & DATA
○	1" DENOTES ISOLATED GROUND TYPE	○	PORE-TRU. COMBINATION POWER & DATA
○	1" DENOTES HORIZONTAL BRANCH TYPE	○	FLOOR MOUNTED DUPLEX RECEPTACLE
○	1" DENOTES VERTICAL BRANCH TYPE	○	MOTOR 1/2" DENOTES REVERSE RUNNING
○	1" DENOTES UNIVERSAL SERIAL BUS (UBS) TYPE	○	DISCONNECT SWITCH
○	1" DENOTES SHARED SENSITIVE RED DEVICE	○	INTERNAL GROUND SWITCH
○	SINGLE SWITCHING KENNELS PUT WIPED DEVICE	○	SWITCH & FUSE
○	HORIZONTAL MOUNTED DUPLEX RECEPTACLE	○	SWITCH & FUSE
○	CEILING MOUNTED DUPLEX RECEPTACLE	○	MAGNETIC MOTOR STARTER
○	DOUBLE DUPLEX RECEPTACLE	○	COMBINATION MAGNETIC STARTER/DISCONNECT
<b>COMMUNICATION</b>			
○	WALL PHONE OUTLET	○	INTERCOM CEILING SPEAKER
○	WALL COMMUNICATION DATA OUTLET	○	INTERCOM WALL SPEAKER
○	CEILING COMMUNICATION DATA OUTLET	○	SOUND REINFORCEMENT WALL SPEAKER
○	CEILING WIRELESS ACCESS POINT OUTLET	○	SOUND REINFORCEMENT CEILING SPEAKER
<b>SECURITY</b>			
○	CEILING MOUNTED SECURITY MOTION DETECTOR	○	VIDEO SURVEILLANCE CAMERA (P INDICATES TYPE)
○	WALL MOUNTED SECURITY MOTION DETECTOR	○	SECURITY CARD READER
○	WALL MOUNTED SECURITY MOTION DETECTOR	○	ELECTRIC STRIKE
○	DOOR POSITION SWITCH	○	ELECTRONIC LATCH RETRACTION
○	MAGNETIC LOCK	○	INTRUSION DETECTOR
○	INTERCOM STATION	○	WANDER GUARD
<b>GENERAL</b>			
○	LIGHTING PANEL	○	WALL MOUNTED JUNCTION BOX
○	DISTRIBUTION PANEL, SWITCHBOARD OR MOTOR CONTROL CENTER	○	JUNCTION BOX
○	CABLE, RECEPTACLE, OR CONTROL PANEL, TYPE INDICATED ON PLAN	○	CONDUIT SEAL
○	BRANCH CIRCUIT - EXPOSED	○	CONDUIT DOWN
○	BRANCH CIRCUIT CONCEALED IN CEILING OR WALL	○	CONDUIT UP
○	BRANCH CIRCUIT CONCEALED IN FLOOR	○	CONDUIT STUBOUT
○	BRANCH CIRCUIT - CLASS TWO WIRING	○	CONDUIT BREAK
○	HOMERUN TO PANEL, QUANTITY OF HOMERUNS INDICATES QUANTITY OF CIRCUITS	○	BELL
○	SPECIAL PURPOSE HOMERUN AS INDICATED	○	AUTOTRIP
○	CONDUIT CONCEALED IN WALL (SEE INDICATED ON PLANS)	○	RESISTOR
○	CONDUIT CONCEALED IN FLOOR	○	TERMINAL
○	WIP	○	WIRE GUARD
○	RT	○	WIRE GUARD
○	PD	○	WIRE GUARD
○	EP	○	WIRE GUARD



- DEVICES:**
- WALL SWITCH, WALL OCCUPANCY SENSOR SWITCH, WALL BOX DIMMER SWITCH, OR ENTRY STATION
  - THERMOSTAT, TEMPERATURE SENSOR, OR CARBON DIOXIDE SENSOR ROUGH-IN
  - FIRE ALARM AUDIO/VISUAL INDICATING DEVICE
  - FIRE ALARM PULL STATION
  - ACCESS CONTROL CARD READER
  - EXIT SIGN
  - AV TOUCHSCREEN

- NOTES:**
- ALIGN DEVICES VERTICALLY AND HORIZONTALLY WHEREVER POSSIBLE. NOT ALL DEVICES OR CONFIGURATIONS ARE DEPICED ON THIS DETAIL. FOR ANY CONFIGURATIONS WITH FOUR OR MORE DEVICES, COORDINATE ARRANGEMENT WITH THE ENGINEER PRIOR TO ROUGH-IN. SEE FLOOR PLANS FOR INDIVIDUAL DOOR REQUIREMENTS.
  - WHERE MULTIPLE SWITCHES OR WALL BOX DIMMERS ARE GANGED TOGETHER, ALIGN FIRST GANG WITH DEVICES ABOVE AND ADD DEVICES TO THE RIGHT AS REQUIRED.
  - DIMENSIONS ARE TO BE MEASURED FROM OUTSIDE EDGE OF DOOR FRAME OR TRIM. WHERE SIDE LIGHT WINDOWS ARE PROVIDED, DIMENSIONS SHOULD BE MEASURED FROM OUTSIDE EDGE OF SIDE LIGHT WINDOW FRAME OR TRIM.
  - ALL DEVICES SHALL BE LOCATED TO MAINTAIN ALL D.A. MOUNTING HEIGHT REQUIREMENTS AND SUCH THAT CENTER OF ADJACENT DEVICES ARE AT SAME ELEVATION. (TYPICALLY 44" A.F.F. TO CENTER OF DEVICE). NOTIFY ENGINEER OF ANY CONFLICTS WITH THE PROPOSED INSTALLATION.

2 DEVICE ALIGNMENT DETAIL NOT TO SCALE

1 TYPICAL LIGHTING AND CONTROL PLAN NOT TO SCALE

**GENERAL LIGHTING NOTES**

- CONNECT ALL EXIT SIGNS AND EMERGENCY LIGHTING UNITS TO THE EMERGENCY LIFE SAFETY INVERTER AHEAD OF ALL SWITCHING AND DIMMING CONTROLS.
- PROVIDE SENSING CONNECTIONS AS REQUIRED FOR OPERATION OF ALL EMERGENCY LIGHTING DEVICES. FOR LUMINAIRES WITH INTEGRAL BATTERIES, CONNECT BATTERY LEADS TO ROOM LIGHTING CIRCUIT AHEAD OF ALL SWITCHING AND DIMMING CONTROL.
- MINIMUM WIRE SIZE FOR EMERGENCY LIGHTING CIRCUITS SHALL BE #10 UNLESS OTHERWISE NOTED ROUTED IN SEPARATE CONDUIT.
- CONTRACTOR TO PROVIDE INITIAL AIMING FOR TENNIS COURT LIGHTING INFORMATION CONTAINED IN DRAWINGS AFTER AIMING IS COMPLETE, CONTRACTOR SHALL TAKE PHOTOMETRIC MEASUREMENTS TO CONFIRM LIGHT LEVELS AND UNIFORMITY ON COURT PLAYING SURFACE.
- LIGHTING CONTROLS:**
  - SEE SPECIFICATIONS, LIGHTING CONTROL DEVICE SCHEDULE, AND DETAILS FOR ADDITIONAL LIGHTING CONTROL REQUIREMENTS.
  - PROVIDE SYSTEM BACKBONE, RELAYS, POWER PACKS, DIMMING PACKS, ENTRY STATIONS, SENSORS, AND ALL LOW VOLTAGE CABLING REQUIRED TO CONNECT DEVICES PER MANUFACTURER'S INSTALLATION INSTRUCTIONS.
  - ROUTE CONTROL CABLING IN CONDUIT ABOVE DRYWALL CEILINGS AND WHERE CEILING IS EXPOSED, CONDUIT NOT REQUIRED ABOVE ACCESSIBLE CEILINGS. PROVIDE J-HOOK STYLE SUPPORTS FOR CABLING (MAXIMUM 8" SPACING).
  - PROVIDE 60V RATED CONTROL WIRING TO ALL LUMINAIRES SERVED BY 5-IN DIMMING RELAYS AND CONTROL DEVICES. ROUTE CONTROL WIRING IN SEPARATE CONDUIT. #18 AWG FOR RUNS UP TO 300 FEET, AND #16 AWG FOR RUNS BETWEEN 300 AND 400 FEET.
  - LOCATION OF CONTROL DEVICES ON PLAN IS DIAGRAMMATIC FOR CLARITY. LOCATE DEVICES ABOVE ACCESSIBLE CEILINGS OR IN ELECTRICAL ROOMS. IN AREAS WITH EXPOSED CEILINGS, LOCATE DEVICE IN JUNCTION BOX TIGHT TO DECK.

**GENERAL FIRE ALARM NOTES**

- ALL FIRE ALARM WIRING SHALL BE RAN IN CONDUIT. IN EXPOSED STRUCTURE AREAS ROUTE CONDUIT TIGHT TO DECK. CONDUIT SHALL BE ROUTED PARALLEL OR PERPENDICULAR TO STRUCTURE IN A NEAT AND WORKMANLIKE MANNER AND GROUPED WHERE POSSIBLE. PAINT EXPOSED CONDUIT AND BOXES TO MATCH STRUCTURE IN FINISHED AREAS WITHOUT CEILINGS. EXPOSED WIRING OF ANY TYPE WILL NOT BE ALLOWED.
- ENSURE ALL PENETRATIONS THROUGH FIRE AND SMOKE WALLS ARE PROPERLY SEALED. SEE ARCHITECTURAL CODE REVIEW PLAN FOR FIRE AND SMOKE WALL LOCATIONS.

**GENERAL SPECIAL SYSTEMS NOTES**

- SPECIAL SYSTEMS ROUGH-INS PROVIDED BY ELECTRICAL CONTRACTOR.
- PROVIDE UL LISTED FIRESTOP AND SMOKESTOP ASSEMBLIES FOR ALL RATED PENETRATIONS.
- ALL LOW VOLTAGE CABLING SHALL BE ROUTED IN CONDUIT ABOVE NON-ACCESSIBLE CEILINGS AND IN AREAS WITH NO CEILINGS (EXPOSED STRUCTURE). EXPOSED LOW VOLTAGE CABLING SHALL NOT BE ALLOWED.

**GENERAL SITE NOTES**

- UTILITY LOCATIONS INDICATED ON DRAWINGS ARE APPROXIMATE AND THE MOST ACCURATE INFORMATION AVAILABLE AT THE TIME OF DESIGN. REFER TO CIVIL AND ARCHITECTURAL DRAWINGS FOR MORE INFORMATION. PRIOR TO EQUIPMENT AND CONDUIT INSTALLATION, THE CONTRACTOR SHALL COORDINATE EXACT INSTALLATION DETAILS AND MODIFY WORK PLAN ACCORDINGLY TO MEET UTILITY REQUIREMENTS. CORRESPOND WITH UTILITY COMPANY PRIOR TO ANY SITE DEVELOPMENT THAT MAY IMPACT THE INSTALLATION SUCH AS IRRIGATION, INSTALLATION, CONCRETE OR ASPHALT INSTALLATION, LANDSCAPING, ETC.
- MINIMUM SIZE FOR ALL UNDERGROUND CONDUITS SHALL BE 1" UNLESS OTHERWISE NOTED. MINIMUM WIRE SIZE SHALL BE #10 UNLESS OTHERWISE NOTED.
- ROUTE CONDUITS UNDER HARD SURFACES AS MUCH AS POSSIBLE TO AVOID CONFLICTS WITH LANDSCAPING AND LAWN IRRIGATION.
- PROVIDE A GREEN INSULATED GROUND WIRE IN ALL RECEPTACLE, LIGHTING, AND EQUIPMENT BRANCH CIRCUITS.
- PROVIDE A DEDICATED NEUTRAL CONDUCTOR FOR EACH BRANCH CIRCUIT.
- PROVIDE A PULL STRING IN ALL EMPTY CONDUITS. CAP EMPTY UNDERGROUND CONDUITS WITH WATER TIGHT FITTINGS, STAKE LOCATIONS, AND MARK LOCATIONS ON AS-BUILD RECORD DRAWINGS FOR OWNER.
- CALL FOR UTILITY LOCATIONS PRIOR TO DIGGING.
- PROVIDE ALL REQUIRED EXCAVATION, TRENCHING, BORING, SHORING, BACKFILL, AND SURFACE REPAIR REQUIRED FOR INSTALLATION OF NEW UTILITIES.

**GENERAL ELECTRICAL NOTES**

- MINIMUM BRANCH CIRCUIT CONDUIT SHALL BE 1/2" MINIMUM DATA/COMMUNICATIONS CONDUIT SHALL BE 1". SEE DRAWINGS FOR AREAS WHERE LARGER CONDUITS ARE REQUIRED.
- PROVIDE A DEDICATED NEUTRAL CONDUCTOR FOR EACH BRANCH CIRCUIT.
- PROVIDE A GREEN INSULATED GROUND WIRE IN ALL RECEPTACLE AND EQUIPMENT BRANCH CIRCUITS.
- SEE DEVICE ALIGNMENT DETAIL FOR INSTALLATION LOCATION OF DEVICES ADJACENT TO DOORS AND MOUNTING HEIGHT REQUIREMENTS.
- PROVIDE TAMPER RESISTANT RECEPTACLES PER NEC 408.12.
- INSTALL CONVENIENCE RECEPTACLES AT EQUIPMENT REQUIRING SERVICING PER 2017 NEC 210.63.
- IN EXPOSED STRUCTURE AREAS (NO CEILINGS), ROUTE CONDUIT TIGHT TO DECK. CONDUIT SHALL BE ROUTED PARALLEL OR PERPENDICULAR TO STRUCTURE IN A NEAT AND WORKMANLIKE MANNER AND GROUPED WHERE POSSIBLE. PAINT EXPOSED CONDUIT AND BOXES TO MATCH STRUCTURE IN FINISHED AREAS WITHOUT CEILINGS. EXPOSED WIRING OF ANY TYPE WILL NOT BE ALLOWED.
- ALL CABLING AND RACEWAY INSTALLED IN EXPOSED OR CONCEALED LOCATIONS NEAR METAL CORRUGATED ROOF DECKING SHALL BE INSTALLED WITH THE REQUIRED CLEARANCE PER NEC SECTION 300.4(E).
- CONTRACTOR SHALL COORDINATE LOCATION OF LUMINAIRES, SPEAKERS, FIRE ALARM, ETC. WITH FIRE RATED WALLS AND CEILINGS AND PROVIDE ENCLOSURES AS REQUIRED TO MAINTAIN THE FIRE RATING INTEGRITY. COORDINATE EXACT LOCATIONS OF FIRE RATED WALLS AND CEILINGS WITH ARCHITECTURAL DRAWINGS. SEE SPECIFICATIONS FOR ADDITIONAL REQUIREMENTS.
- REFER TO ACCESS CONTROL DETAIL FOR DOOR HARDWARE ROUGH-IN REQUIREMENTS, COORDINATE WITH ARCHITECTURAL DOOR HARDWARE SCHEDULE AND EQUIPMENT SUPPLIER PRIOR TO INSTALLATION.
- ELECTRICAL CONTRACTOR SHALL PROVIDE ROUGH-IN FOR ALL THERMOSTATS AND/OR SENSORS. ROUGH-IN TO INCLUDE 4" SQUARE BOX WITH SINGLE GANG MUD RING AND 1/2" CONDUIT TO ABOVE NEAREST ACCESSIBLE CEILING OR DIRECT TO THE UNIT. LOCATE BOX AT 4" AFF ALIGNED VERTICALLY AND HORIZONTALLY WITH ADJACENT ELECTRICAL DEVICES. REFER TO MECHANICAL DRAWINGS FOR THERMOSTAT AND/OR SENSOR LOCATIONS.
- MC CABLE IS ONLY ACCEPTABLE FOR BRANCH CIRCUIT WIRING CONCEALED IN WALLS AND ABOVE CEILINGS. MC CABLE IS NOT ALLOWED IN EXPOSED STRUCTURE AREAS OR FOR HOMERUNS.
- MULTI-WIRE BRANCH CIRCUITS AS DEFINED BY THE NATIONAL ELECTRICAL CODE (CIRCUITS WITH COMMON NEUTRAL) SHALL NOT BE USED. PROVIDE A DEDICATED NEUTRAL CONDUCTOR FOR EACH CIRCUIT.

## Interior Lighting Compliance Certificate

**Project Information**  
Energy Code: 2018 IECC  
Project Type: New Construction

**Allowed Interior Lighting Power**

AREA CATEGORY	FLOOR AREA (FT <sup>2</sup> )	ALLOWED WATTS/FT <sup>2</sup>	ALLOWED WATTS	ACTUAL WATTS	PASS
SPORTS ARENA	31038 SF	0.87 W/FT <sup>2</sup>	27044 W	26694 W	Yes

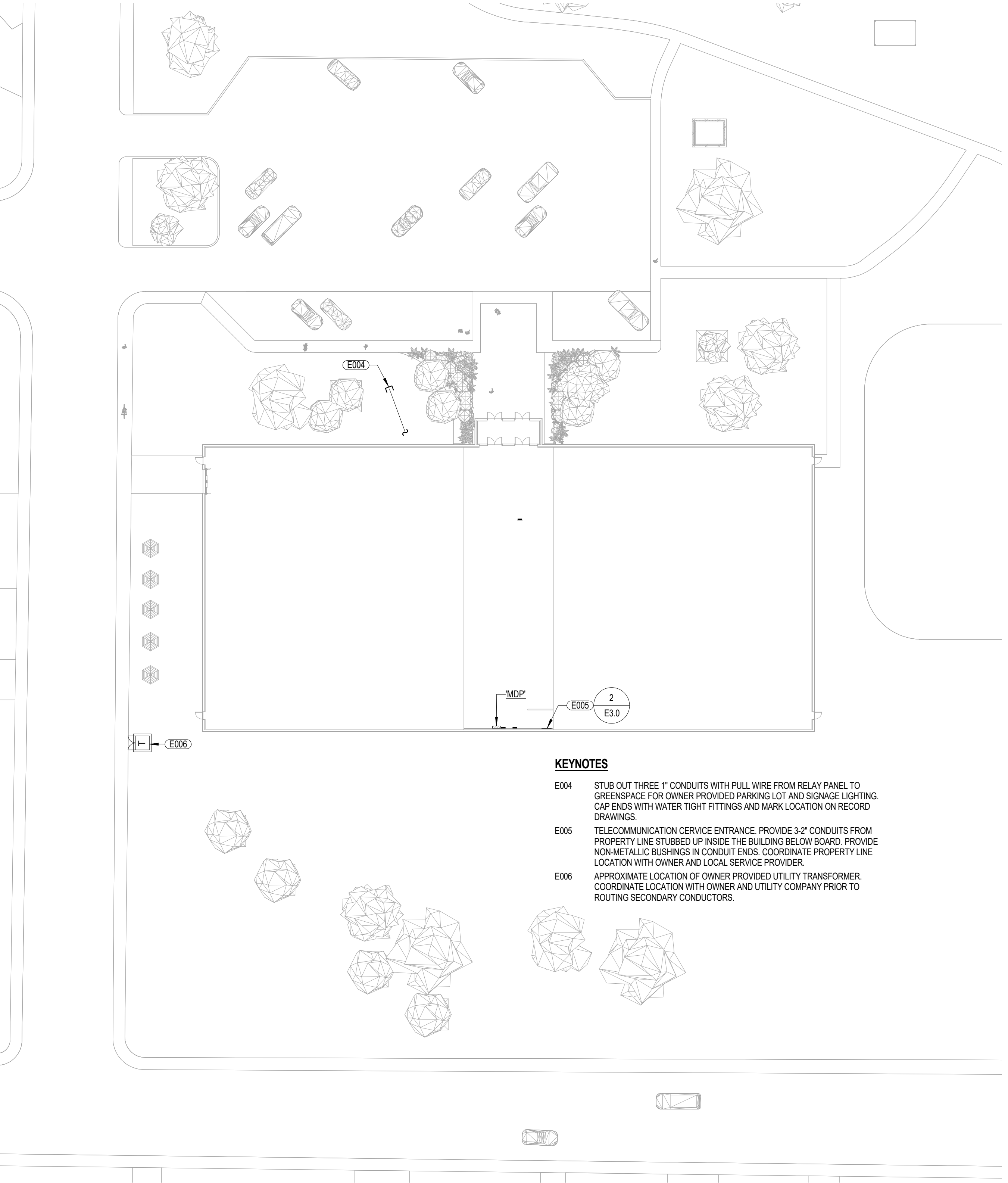
**Proposed Interior Lighting Power**

FIXTURE ID	DESCRIPTION	# OF FIXTURES	FIXTURE WATT.	TOTAL WATTS	EXEMPTION
1	PERFORMANCE INDIRECT LIGHTING SYSTEM	60	433 W	25980 W	
2	4' LED STRIPLIGHT	5	41 W	205 W	
3	1x4 TROFFER, DRYWALL	12	27 W	324 W	
4	4" ROUND DOWNLIGHT	4	18 W	70 W	
5	EXTERIOR WALL PACK, PHOTOCELL	6	15 W	90 W	
6	2' UNDER CABINET LIGHT	2	13 W	25 W	
<b>Total Proposed Watts</b>				<b>26694 W</b>	

**Interior Lighting Compliance Statement**  
Compliance Statement: The proposed interior lighting design represented in this document is consistent with the building plans, specifications, and other calculations submitted with this permit application. The proposed interior lighting systems have been designed to meet the 2018 IECC requirements in COMcheck Version 4.1.1.0 and to comply with any applicable mandatory requirements listed in the Inspection Checklist.

ENERGY CODE COMPLIANCE	
CODE	2018 INTERNATIONAL ENERGY CONSERVATION CODE
ComCHECK	YES (1)
COMMISSIONING	NO

REMARKS:  
1. ComCHECK COMPLIANCE REPORT CAN BE FOUND ON THIS SHEET.



- KEYNOTES**
- STUB OUT THREE 1" CONDUITS WITH PULL WIRE FROM RELAY PANEL TO GREENSPACE FOR OWNER PROVIDED PARKING LOT AND SIGNAGE LIGHTING. CAP ENDS WITH WATER TIGHT FITTINGS AND MARK LOCATION ON RECORD DRAWINGS.
  - TELECOMMUNICATION SERVICE ENTRANCE. PROVIDE 3" CONDUITS FROM PROPERTY LINE STUBBED UP INSIDE THE BUILDING BELOW BOARD. PROVIDE NON-METALLIC BUSHINGS IN CONDUIT ENDS. COORDINATE PROPERTY LINE LOCATION WITH OWNER AND LOCAL SERVICE PROVIDER.
  - APPROXIMATE LOCATION OF OWNER PROVIDED UTILITY TRANSFORMER. COORDINATE LOCATION WITH OWNER AND UTILITY COMPANY PRIOR TO ROUTING SECONDARY CONDUCTORS.

3 OVERALL PLAN SCALE: 1" = 30'-0"

**CITY OF LEXINGTON**  
**LEXINGTON RACQUET CENTER**  
 Lexington, NE

Revision/Issue	Date

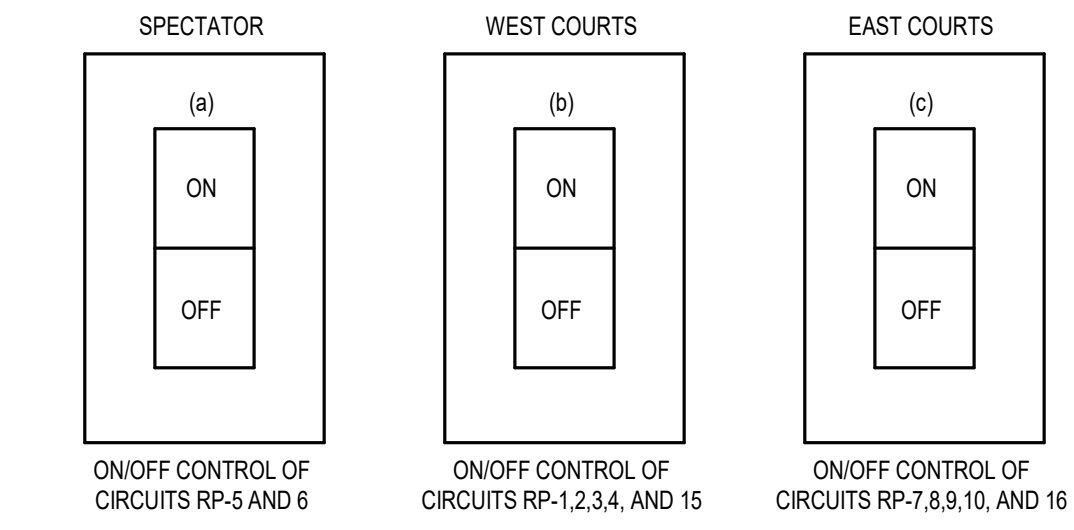
Project Number: 2261  
Date: January 5, 2023

Copyright © 2023  
WILKINS Architecture | Design | Planning L.L.C.

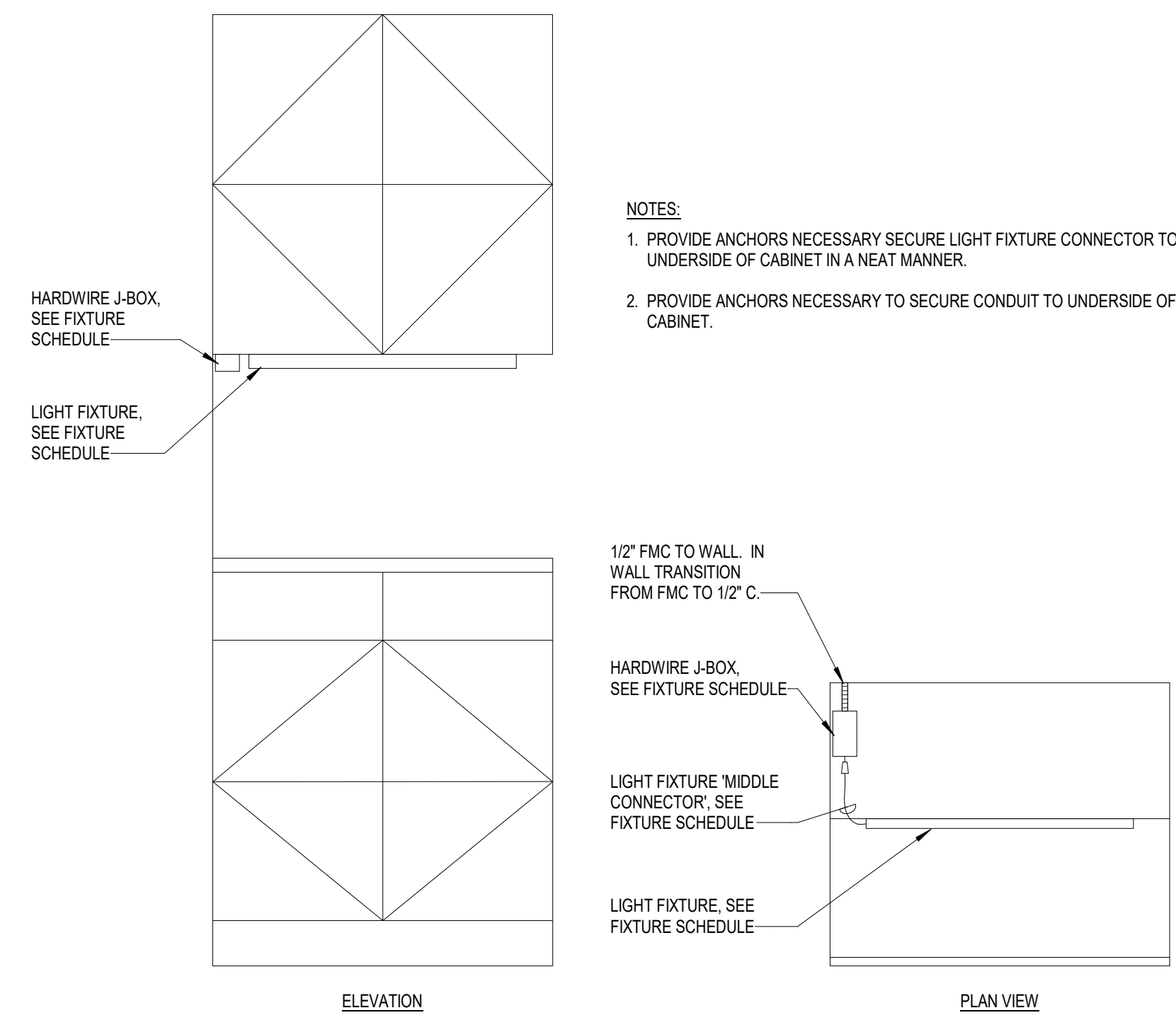
Sheet Number:  
**E0.0**

ELECTRICAL COVER SHEET

LIGHTING CONTROL DEVICE SCHEDULE				
SYMBOL	TAG	MANUFACTURER	CATALOG NUMBER	DESCRIPTION
	1P	ACUITY CONTROLS	1P001A	LIGHTING CONTROL NETWORK ENTRY STATION WITH ON AND OFF PUSH BUTTONS



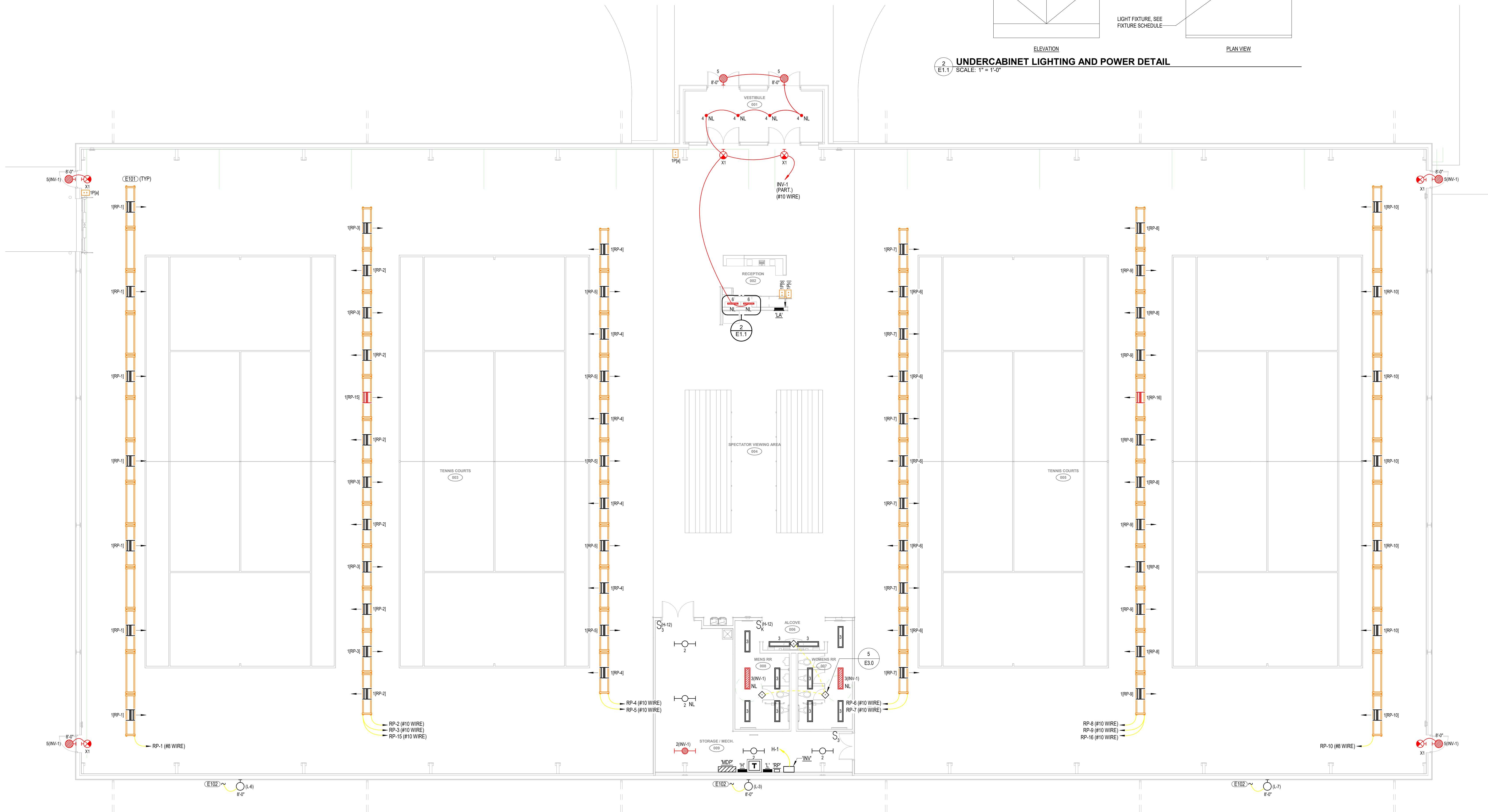
3 E1.1 SCALE: NOT TO SCALE



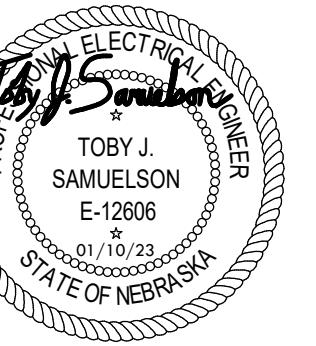
SEE ELECTRICAL COVER SHEET E0.0 FOR ELECTRICAL GENERAL NOTES

KEYNOTES

- E101 PROVIDE HOMERUN WIRING AT SOUTH END. REMAINDER OF WIRING TO BE INSTALLED INTEGRAL TO LIGHTING TRUSS SYSTEM. REMAINDER OF SUPPORTS TO BE AIRCRAFT CABLE. SUSPEND CONTINUOUS TRUSS SYSTEM PER MANUFACTURER'S RECOMMENDATIONS SO THAT BOTTOM OF TRUSS IS AT 16'-10" A.F.F. ALL LUMINAIRES OUTWARD IN DIRECTION OF ARROWS INDICATED TO UNIFORMLY ILLUMINATE THE CEILING OVER THE TENNIS COURT.
- E102 CONNECT TO UNSWITCHED CIRCUIT FROM ADJACENT RECEPTACLE.



1 E1.1 SCALE: 1/8" = 1'-0"



MEI PROJECT # 22493

morrissey engineering inc

mechanical | electrical | lighting | technology | commissioning  
4800 North 118th Street  
Omaha, NE 68154 P  
402.491.4144  
www.morrisseyengineering.com

© copyright  
permission to reproduce all or part of this drawing is hereby granted solely for the limited purpose of construction of this project or archiving. unauthorized copying, disclosure or construction use without written permission of morrissey engineering, inc. is prohibited by copyright law.

note:  
do not scale drawings. verify all dimensions and clearances from architectural, structural, shop and other appropriate drawings or at site. they and coordinate all work prior to installation to provide clearances required for operation, maintenance, and codes and verify non-interference with other work. do not fabricate prior to verification of clearance for all trades.

CITY OF LEXINGTON  
LEXINGTON RACQUET CENTER  
Lexington, NE

Revision/Issue	Date

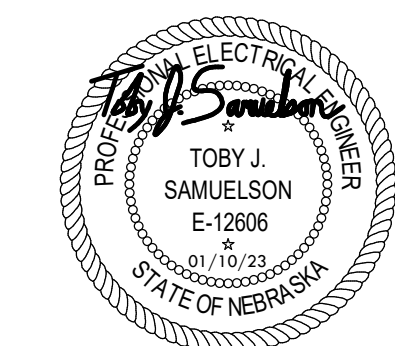
LIGHTING PLANS

Project Number: 2261  
Date: January 5, 2023

Copyright © 2023  
WILKINS Architecture | Design | Planning LLC.

Sheet Number:

E1.1

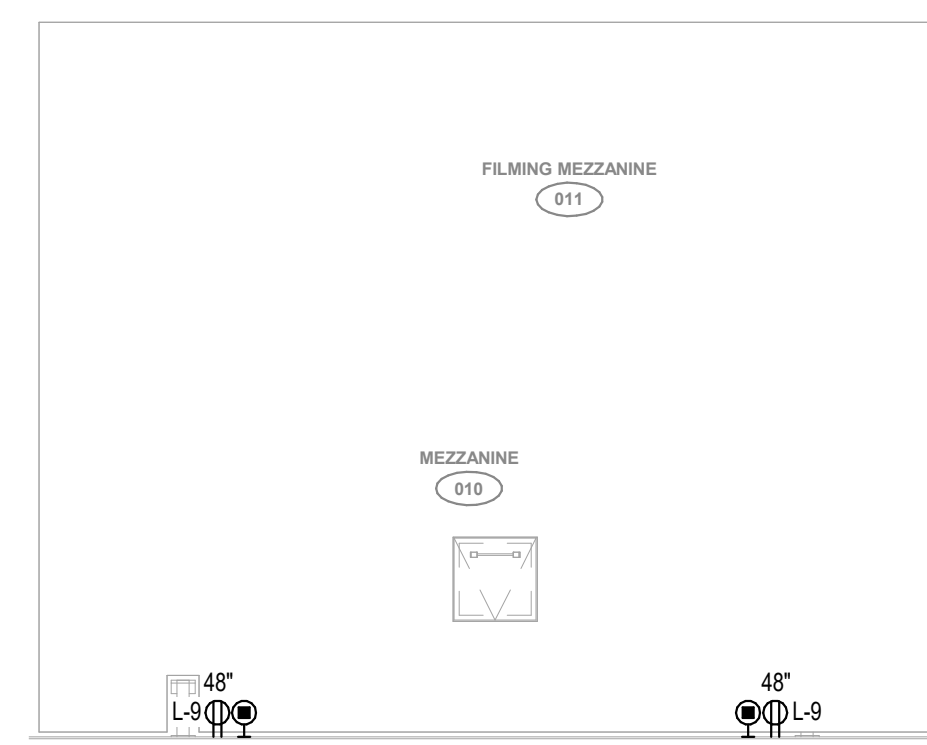


MEI PROJECT # 22493  
**morrissey engineering inc**  
 mechanical | electrical | lighting | technology | commissioning  
 4900 North 118th Street  
 Omaha, NE 68164 P  
 402.491.4144  
 www.morrisseyengineering.com  
 © copyright  
 permission to reproduce all or part of this drawing is hereby granted solely for the limited purpose of construction of this project or archiving. Unauthorized copying, disclosure or construction use without written permission of morrissey engineering, inc. is prohibited by copyright law.  
 note:  
 do not scale drawings. verify all dimensions and clearances from architectural, structural, shop and other appropriate drawings or as filed. lay out and coordinate all work prior to installation to provide clearances required for operation, maintenance, and codes and verify non-interference with other work. do not fabricate prior to verification of clearance for all trades.

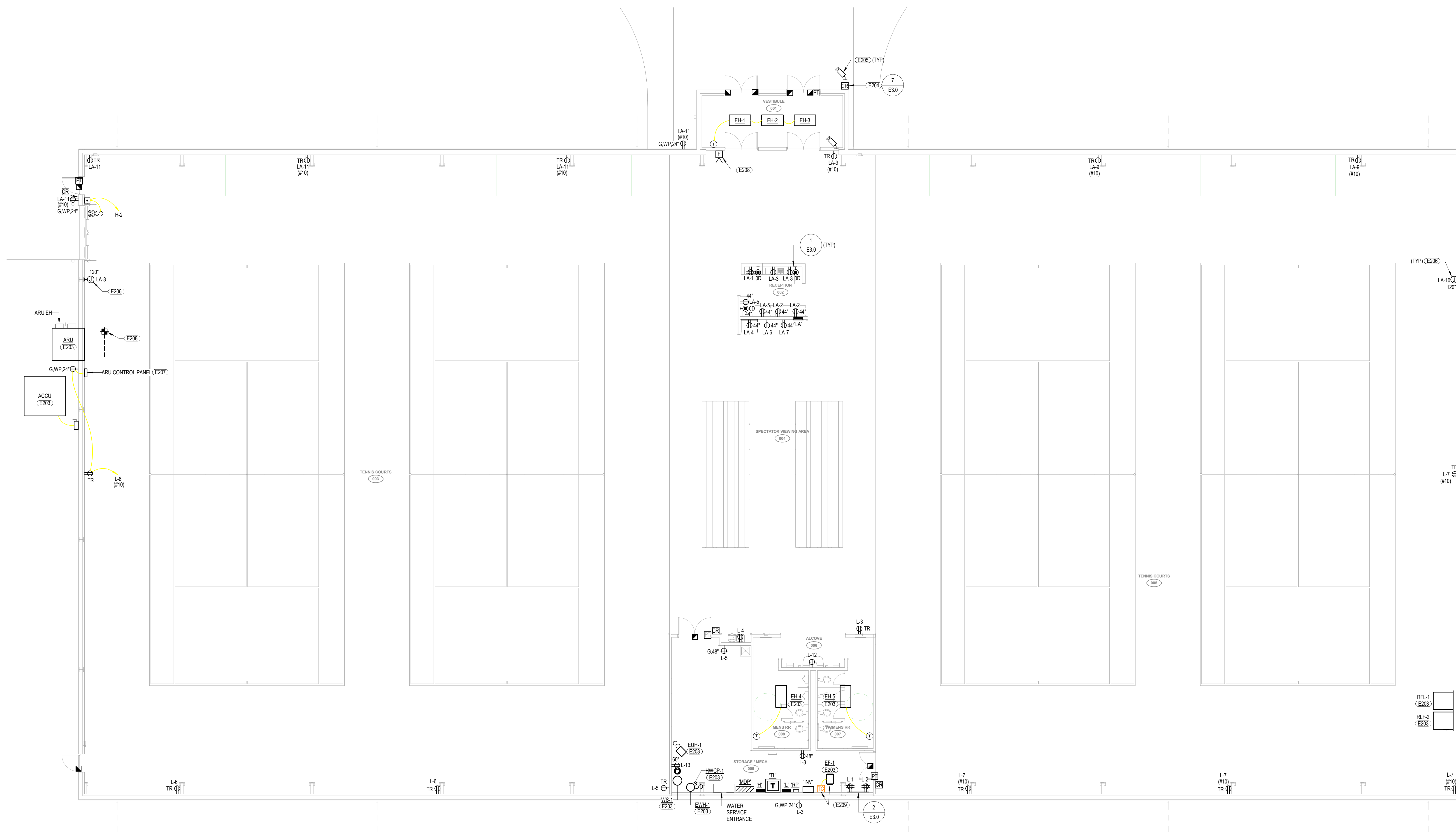
SEE ELECTRICAL COVER SHEET E0.0 FOR ELECTRICAL GENERAL NOTES

**KEYNOTES**

- E203 SEE MECHANICAL CONNECTION SCHEDULE FOR ADDITIONAL INFORMATION.
- E204 PROVIDE ROUGH-IN FOR OWNER PROVIDED CARD READER. PROVIDE 3/4" CONDUIT FROM DOOR HEADER TO TELECOMMUNICATIONS BOARD. COORDINATE ALL ROUGH-IN AND CONDUIT REQUIREMENTS WITH DOOR HARDWARE AND OWNER'S SECURITY SYSTEM VENDOR PRIOR TO ROUGH-IN. PROVIDE 120V CONNECTION AS REQUIRED TO NEAREST UNSWITCHED RECEPTACLE CIRCUIT.
- E205 PROVIDE 1" CONDUIT TO TELECOMMUNICATIONS BOARD FOR SECURITY CABLEING. PROVIDE INSULATED BUSHING ON CONDUIT ENDS. PAINT JUNCTION BOX AND CONDUIT TO MATCH EXPOSED STRUCTURE COLOR.
- E206 PROVIDE A DEEP 2-GANG BOX TO OWNER PROVIDED DIGITAL CLOCK. LOCATE BOX APPROXIMATELY 10'-0" AFF. COORDINATE LOCATION WITH OWNER PRIOR TO INSTALLATION.
- E207 PROVIDE CONDUIT AND CONTROL WIRING PER MANUFACTURER'S REQUIREMENTS FROM CONTROL PANEL TO ARIU BLOWER AND HEATER AND TO OUTDOOR CONDENSING UNIT.
- E208 PROVIDE STAND-ALONE DUCT MOUNTED SMOKE DETECTOR AND LOCAL HORN STROBE PER NFPA REQUIREMENTS TO MONITOR HVAC UNIT.
- E209 PROVIDE TIMELOCK AND PROGRAM ON/OFF CONTROL FOR EF-1. COORDINATE ON/OFF TIMING WITH OWNER TO ENSURE FAN IS RUNNING DURING BUSINESS HOURS OF OPERATION ONLY.



**MEZZANINE - POWER**  
SCALE: 1/8" = 1'-0"



**FIRST FLOOR - POWER**  
SCALE: 1/8" = 1'-0"

**CITY OF LEXINGTON  
LEXINGTON RACQUET CENTER  
Lexington, NE**

Revision/Issue	Date

POWER & SPECIAL SYSTEMS PLANS

Project Number: 2261  
Date: January 5, 2023

Copyright © 2023  
WILKINS Architecture | Design | Planning LLC.

Sheet Number:

**E2.1**



