

CITY OF ROCKVILLE

P.O. BOX 93

229 Broadway Street East

ROCKVILLE, MN 56369

For Your Information – FYI

Council Action Needed – CA

SPECIAL CITY COUNCIL MEETING AGENDA

ROCKVILLE CITY HALL

MONDAY, DECEMBER 21, 2020

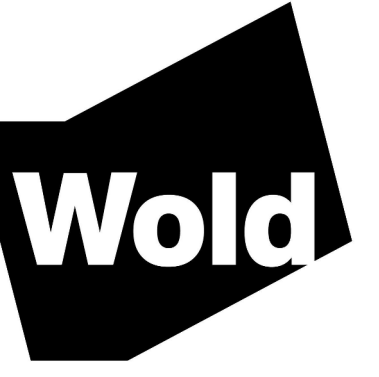
9:00 A.M.

1. **Call to Order** Roll Call – BH.JT.BB.DW.DS.
2. **Roll Call** – (silence electronic devices)
3. **Approval of Agenda** CA
4. **Public Works Building**
 - a) Resolution 2020-54 Approve Plans and Specs and Authorize Bidding - PWBldg
5. **Amending Resolution 2020-47 – Refuse Hauler License** CA
6. **Stickney Hill Dairy**
 - a)
7. **Maine Prairie Township Fire Service Contract/Agreement**
8. **Ditch 17**
9. **IT Equipment** CA
10. **Adjourn**

New Public Works Facility

24001 Fire Hall Lane
Rockville, MN 56369

City of Rockville
229 Broadway Street East
Rockville, MN 56369



**WOLD ARCHITECTS
AND ENGINEERS**
332 Minnesota Street, Suite W2000
Saint Paul, MN 55101

woldae.com | 651.227.7773

GENERAL

G1.01 CODE ANALYSIS & LIFE SAFETY PLAN

ARCHITECTURAL

A1.01 SYMBOLS, ABBREVIATIONS, SCHEDULES, WALL ASSEMBLIES & OPENING TYPES
A2.01 MAIN LEVEL FLOOR PLAN & REFLECTED CEILING PLAN
A2.51 ROOF PLAN & DETAILS
A5.01 EXTERIOR ELEVATIONS & BUILDING SECTIONS
A5.11 WALL SECTIONS
A5.21 DETAILS
A5.22 DETAILS
A9.01 ALTERNATE NO.1 - FLOOR PLAN, RCP, ENLARGED TOILET PLAN, AND DETAILS
A9.02 ALTERNATE NO.1 - DETAILS

MECHANICAL

M0.0 MECHANICAL TITLE SHEET
M1.0 PLUMBING PLANS
M1.1 HYDRONIC, HVAC, AND BOILER ROOM PLANS
M2.0 DETAILS
M2.1 DETAILS
M2.2 DETAILS AND SCHEMATIC
M2.3 SUPPLY AND WASTE RISERS
M2.4 SCHEDULES

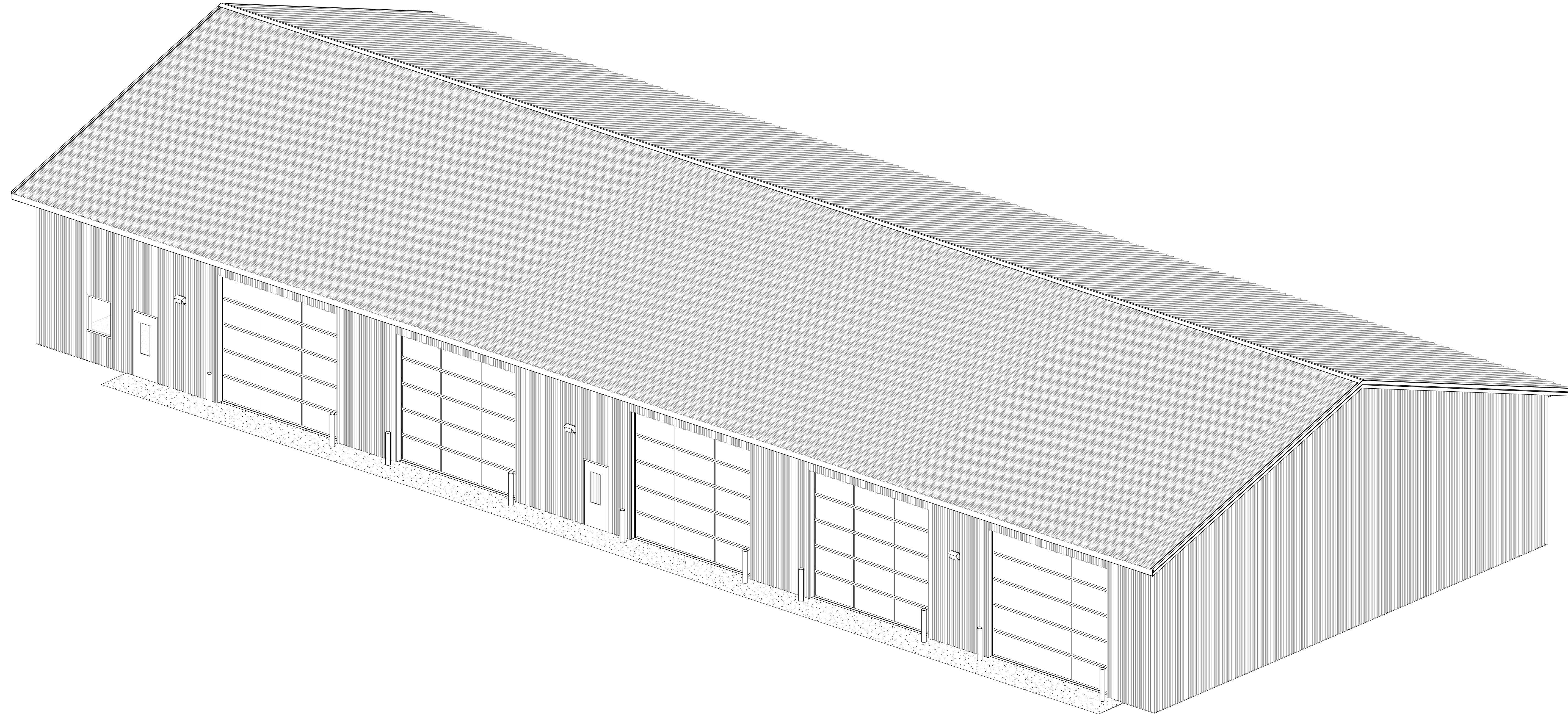
ELECTRICAL

E0.00 ELECTRICAL SYMBOLS AND ABBREVIATIONS
E1.00 ELECTRICAL LIGHTING PLAN
E2.00 ELECTRICAL POWER & SYSTEMS PLAN

NEW PUBLIC WORKS FACILITY

CITY OF ROCKVILLE

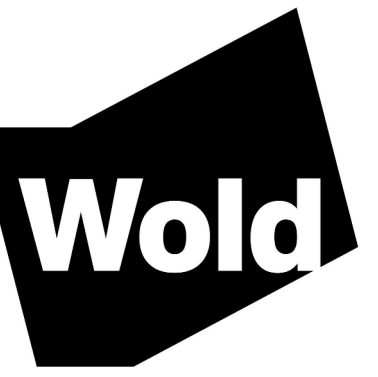
ROCKVILLE, MINNESOTA



MN

**95% CD'S / OWNER REVIEW SET
NOT FOR CONSTRUCTION**

Set No: _____
Comm No:202208



BUILDING # 1

CODE ANALYSIS SUMMARY (IBC 2018)
UN-SPRINKLERED

1. OCCUPANCY CLASSIFICATIONS SECTION 302

A. SECTION 311, STORAGE: GROUP S-2

2. INCIDENTAL USE AREAS TABLE 509

FURNACE ROOM (400,000 BTU)
BOILER ROOM (15 PSI OR 10 HP)
STATIONARY LEAD-ACID BATTERY SYSTEMS FOR STANDBY,
EMERGENCY OR UNINTERRUPTED POWER SUPPLIES

1 HR OR SPRINKLER AND CONST. RESISTING SMOKE
1 HR OR SPRINKLER AND CONST. RESISTING SMOKE
1 HR (GROUP B, F, M, S, U) 2 HR (GROUP A, E, I, R)

3. MIXED OCCUPANCIES SECTION 508

A. SEPARATIONS TABLE 508.4

N/A

B. NOTES:

- NO SEPARATION IS REQUIRED BETWEEN ACCESSORY OCCUPANCIES OR THE MAIN OCCUPANCY PER 508.2.4 PER 508.2. ACCESSORY OCCUPANCIES ARE DEFINED AS NOT OCCUPYING MORE THAN 10% OF MAIN OCCUPANCY, SMALL ASSEMBLY AREAS OF LESS THAN 750 S.F. (303.1.2) OR ASSEMBLY AREAS ACCESSORY TO GROUP E (303.1.3)

4. CONSTRUCTION TYPE / FIRE RESISTANCE TABLE 601 / 602

A. TYPE III-B

BUILDING ELEMENT FIRE RESISTANCE

| | |
|------------------------------|-------------------------|
| STRUCTURAL FRAME | 0 HR |
| EXT. BEARING WALLS | 2 HR (OR PER TABLE 602) |
| INT. BEARING WALLS | 0 HR |
| EXT. NON-BEARING WALLS | 0 HR |
| INT. NON-BEARING WALLS | 0 HR |
| FLOOR CONSTRUCTION | 0 HR |
| ROOF CONSTRUCTION | 0 HR |
| CORRIDORS (TABLE 1020 / 708) | — HR |

NOTES: * REQUIRED FIRE RESISTANCE RATING AT EXTERIOR NON-BEARING WALLS PER TABLE 602.
FIRE SEPARATION DISTANCE IS 30' OR GREATER = 0 HR REQUIRED RATING

5. GENERAL BUILDING HEIGHT AND AREA SECTION 503 / 504

A. ALLOWABLE HEIGHT AND AREAS

| GROUP | CONSTRUCTION TYPE TABLE 601 | ALLOWABLE HEIGHT TABLE 504.4 / 504.3 | ALLOWABLE AREA TABLE 506.2 |
|-------|-----------------------------|--------------------------------------|----------------------------|
| S-2 | III-B | 3 STORIES / 55 FT. | 26,000 S.F. |

6. ALLOWABLE AREA MODIFICATIONS SECTION 506

A. GROUP S-2

- EQUATION S-1, ALLOWABLE BUILDING AREA AT SINGLE OCCUPANCY, ONE-STORY BUILDINGS
 $A_{all} = (A_{01} + (A_{02} \times 10))$
 $A_{all} = 26,000 + (26,000 \times .26)$
 $A_{all} = 53,000 \text{ SF}$
- EQUATION S-2, AREA INCREASE DUE TO FRONTAGE
 $A_{all} = (A_{01} + (A_{02} \times W/W_0))$
 $A_{all} = 26,000 + (26,000 \times 1.0)$
 $A_{all} = 52,000 \text{ SF}$

B. ACTUAL AREA

| GROUP | MAIN LEVEL |
|---------|------------|
| S-2 | 3,000 SF |
| TOTALS: | 3,000 SF |

NOTES: * THE MEZZANINE IS LESS THAN 1/3 THE AREA OF THE ROOM IT SERVES AND IS NOT COUNTED SQUARE FOOTAGE OR A STORY OF THE ROOM IT SERVES PER 506.2.

7. MEANS OF EGRESS CHAPTER 10

A. BUILDING OCCUPANT LOAD TABLE 1004.5

(SEE LIFE SAFETY PLAN)

B. EGRESS WIDTH 1005.3.1, 1005.3.2

2. MAIN LEVEL OCCUPANCY

| A. OTHER | REQUIRED WIDTH | OR WIDTH | # DOORS REQUIRED |
|----------|----------------|----------|------------------|
| FACTOR | 36" | 32" | 36 |

(IN PROGRESS)

* MINIMUM DOOR WIDTH TO BE 36" TO ACHIEVE 32" CLEAR WIDTH PER 1010.1.1.

** MINIMUM STAIRWAY WIDTH TO BE 44" (INCLUDING LANDING WIDTH) UNLESS SERVING LESS THAN 50 OCCUPANTS PER 1011.2.

C. TRAVEL DISTANCES/ EXIT SYSTEMS

1. COMMON PATH OF EGRESS TRAVEL 75 FT PER TABLE 1008.2.1 (TO A POINT WHERE OCCUPANT HAS TWO MEANS OF EGRESS.)

2. EXIT ACCESS TRAVEL DISTANCE (TRAVEL DISTANCE TO AN EXIT OR A RATED EXIT SYSTEM.)

OCCUPANCY W/O SPRINKLER

S-2 300 FT

3. CORRIDORS 1018

A. MINIMUM WIDTH (TABLE 1020.2) = 44"

B. DEAD ENDS (1020.4):
20' IN NON-SPRINKLERED CONSTRUCTION;
LENGTH = 2.5 TIMES THE LEAST WIDTH OF THE DEAD-END CORRIDOR.

8. WALL AND CEILING FINISHES TABLE 803.13

SPRINKLERED / NON-SPRINKLERED

| GROUP | EXIT ENCLOSURES AND EXIT PASSAGEWAYS | CORRIDORS | ROOMS AND ENCLOSED SPACES |
|-------|--------------------------------------|-----------|---------------------------|
| S | C/B | C/B | C/C |

9. RECYCLING SPACE MN CODE 1303.15

TABLE 1-A

| USE | FACTOR | S.F. / USE | S.F. REQUIRED |
|--------------------------------|--------|------------|---------------|
| PARKING GARAGE | 0.001 | 8,200 | 8.2 |
| MECHANICAL EQUIP ROOM | 0.001 | 100 | 0.1 |
| OFFICES | 0.0025 | 450 | 1.1 |
| STORAGE AND STOCK ROOMS | 0.0025 | 200 | 0.5 |
| TOTAL RECYCLING SPACE REQUIRED | | | 10 S.F. |

10. PLUMBING FIXTURE COUNT TABLE 2902.1

A. "S-2" OCCUPANCY

| 1. OCCUPANTS | MEN | WOMEN | TOTAL |
|--------------|-----|-------|-------|
| | 26 | 26 | 50 |

| 2. FIXTURE RATIO | WC | URINAL | LAV | WC | LAV | DRINKING FOUNTAINS | SERVICE SINK |
|------------------|-----------|--------|-------|-------|-------|--------------------|--------------|
| 1:100 | +25 OF WC | 1:100 | 1:100 | 1:100 | 1:100 | 1:1,000 | 1 |

| 3. FIXTURES REQUIRED | 1 | NONE | 1 | 1 | 1 | 1 | 1 |
|----------------------|---|------|---|---|---|---|---|
| 1 | 0 | 1 | 1 | 1 | 1 | 1 | 1 |

| 4. ACTUAL FIXTURES | 1 | 0 | 1 | 1 | 1 | 1 | 1 |
|--------------------|---|---|---|---|---|---|---|
| 1 | 0 | 1 | 1 | 1 | 1 | 1 | 1 |

* URINALS ARE BEING SUBSTITUTED FOR 3 MENS WATER CLOSETS.

12. ENERGY CODE

THE ENERGY CODE USED FOR THIS PROJECT IS

2018 INTERNATIONAL ENERGY CONSERVATION CODE

THE BUILDING IS IN ZONE # 5A

CODE NARRATIVE

BUILDING #1

STORAGE OF COMMERCIAL VEHICLES IS TO OCCUR AT THE VEHICLE STORAGE AREAS INDICATED PER THE LIFE SAFETY PLAN.

THE BUILDING IS AN ENCLOSED PARKING GARAGE PER 406.6; AN AUTOMATIC SPRINKLER SYSTEM IS TO BE PROVIDED WHERE INDICATED PER SECTION 903.2.10 (406.6.3)

PER 903.2.10

* A GROUP S-2 PARKING GARAGE SHALL REQUIRE AN AUTOMATIC SPRINKLER SYSTEM BE PROVIDED WHERE THE FIRE AREA EXCEEDS 12,000 SF

* A GROUP S-2 COMMERCIAL PARKING GARAGE SHALL REQUIRE AN AUTOMATIC SPRINKLER SYSTEM BE PROVIDED WHERE THE FIRE AREA EXCEEDS 6,000 SF

A FIRE BARRIER AS INDICATED PER THE LIFE SAFETY PLAN IS USED TO SEPARATE THE FIRE AREAS; THE FIRE BARRIER HAS A FIRE-RESISTANCE RATING OF 2 HOURS AS INDICATED PER TABLE 707.3.10 (S-2 OCC)

EFFECTIVE CODE REFERENCES

2020 MINNESOTA STATE BUILDING CODE (MSBC), CHAPTER 1305, WHICH ADOPTS AND AMENDS THE 2018 INTERNATIONAL BUILDING CODE (IBC)

2020 MINNESOTA STATE MECHANICAL AND FUEL GAS CODE, CHAPTER 1346

2020 NATIONAL ELECTRICAL CODE (NEC)

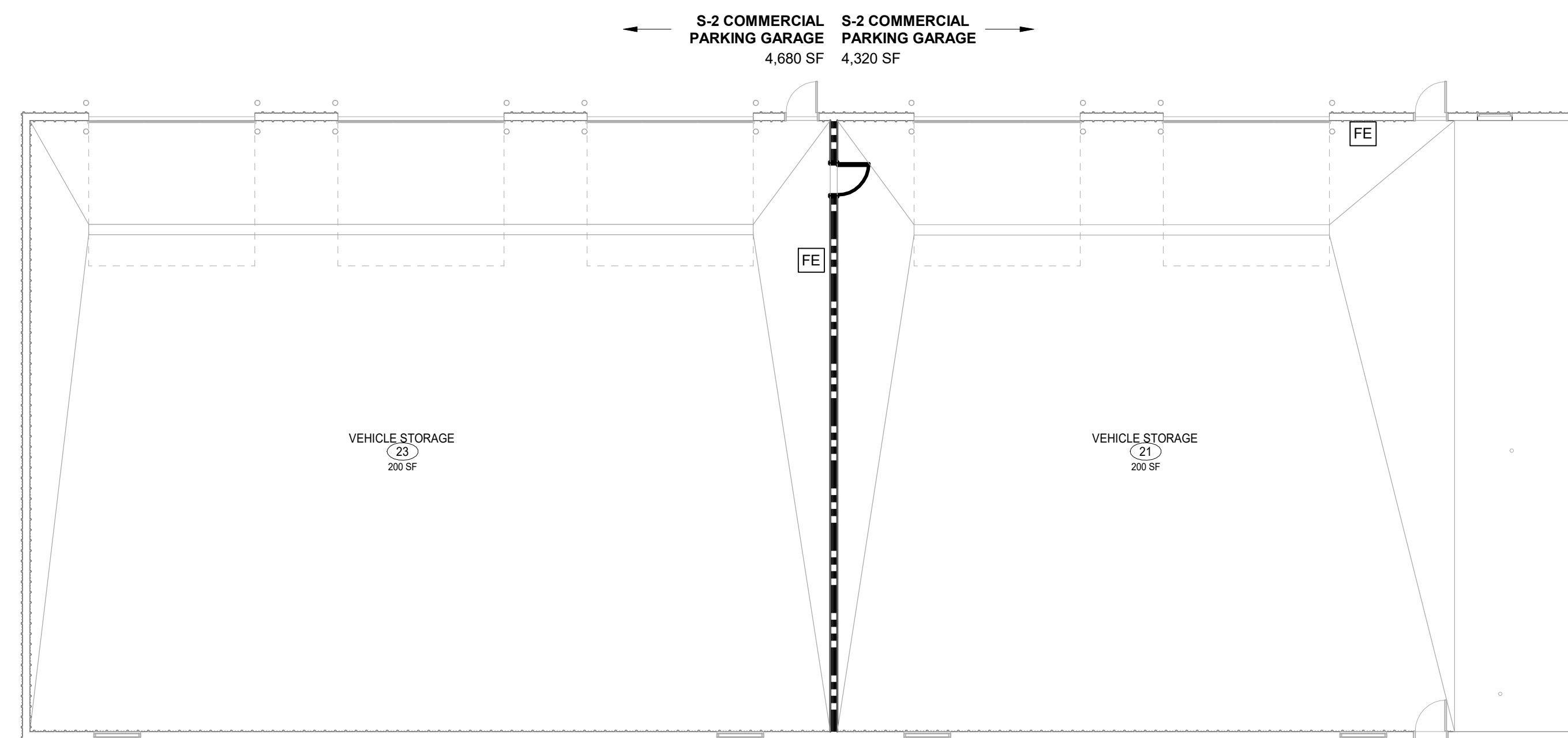
2015 MINNESOTA STATE PLUMBING CODE, CHAPTER 4714

2020 MINNESOTA STATE FIRE CODE, WHICH ADOPTS AND AMENDS THE 2018 INTERNATIONAL FIRE CODE

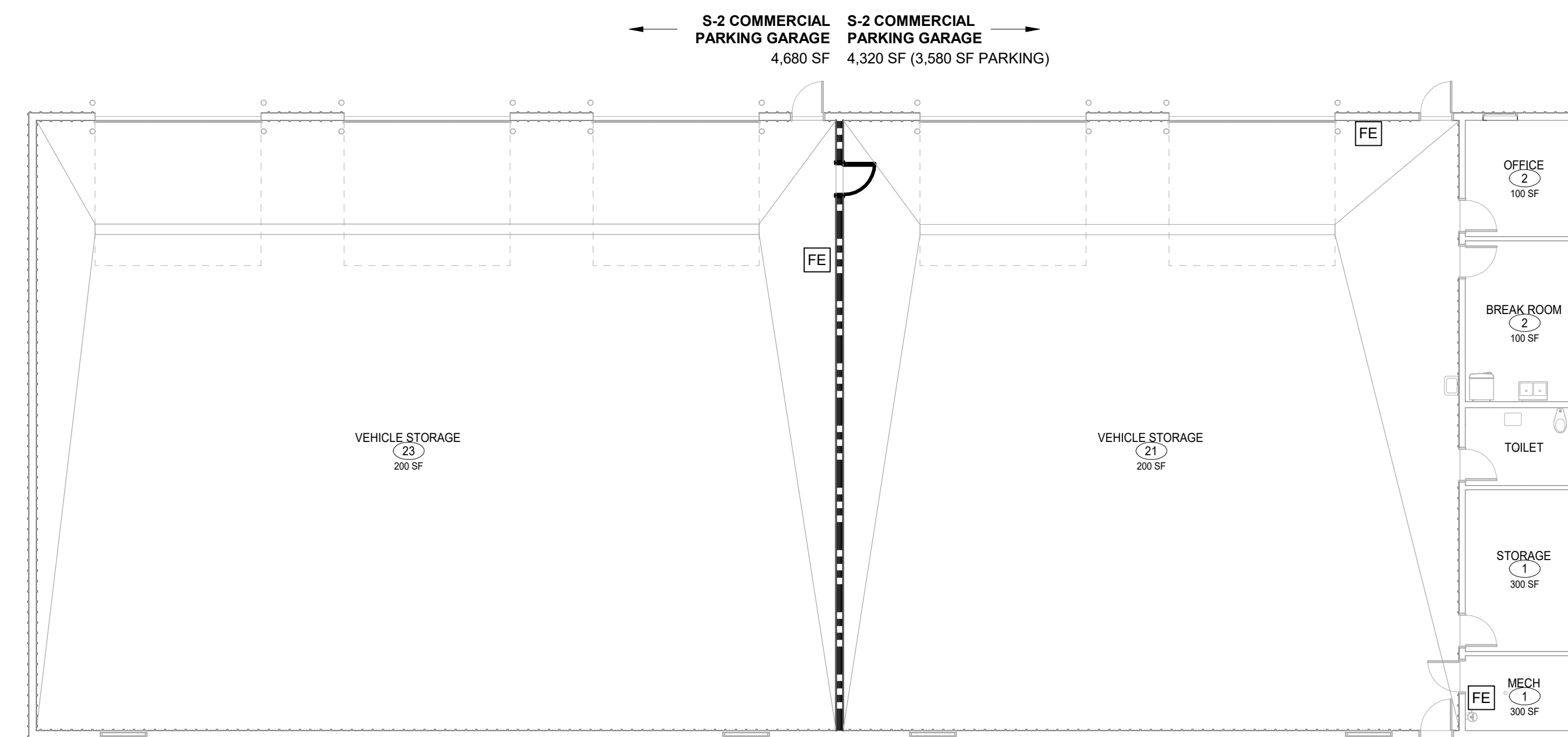
2020 MINNESOTA COMMERCIAL ENERGY CODE, CHAPTERS 1322 & 1323

2020 MINNESOTA ACCESSIBILITY CODE, CHAPTER 1341

2015 MINNESOTA ELEVATOR AND RELATED DEVICES CODE, CHAPTER 1307



E1 MAIN LEVEL LIFE SAFETY PLAN - BASE BID
3/32" = 1'-0"



E5 MAIN LEVEL LIFE SAFETY PLAN - ALTERNATE NO.1 (OFFICE BUILDOUT)
3/32" = 1'-0"

LIFE SAFETY PLAN LEGEND

- MAIN PATH OF EGRESS
- ## — EXIT LOAD
- ## — OCCUPANT LOAD
- ## — OCCUPANT FACTOR

NEW 2 HOUR FIRE BARRIER
(SHAFT ENCLOSURES: 707.3.1, HORIZ. EXITS: 1026.1, 707.7.1, OCCUPANCY SEPARATIONS: 506.4, INTERIOR EXIT STAIRWAY: 1023.2, EXIT ACCESS STAIRWAY: 1026.3.1)

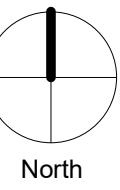
DOOR OPENINGS:
GLAZING: 90 MIN.
DUCTWORK: 105 MIN. IN MAX. 33" MAX. HT., 10" MAX. WIDTH
90 MIN. FIRE DAMPER
90 MIN. FIRE/SMOKE DAMPER (AT SHAFT ENCLOSURES AND HORIZONTAL EXITS)

I hereby certify that this plan, specification or report was prepared by me or under my direct supervision and that I am a duly Licensed ARCHITECT under the laws of the State of MINNESOTA

JOEL DUNNING
License Number: 41467 Date: 2020.12.2x

| Description | Revisions | |
|-------------|-----------|------|
| | Date | Num. |
| | | |
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| | | |
| | | |
| | | |

Comm: 202208
Date: 2020.12.2x
Drawn: KLS
Check: JW



CODE ANALYSIS & LIFE SAFETY PLAN

Scale: As indicated

95% CD'S / OWNER REVIEW SET
NOT FOR CONSTRUCTION

G1.01

MN

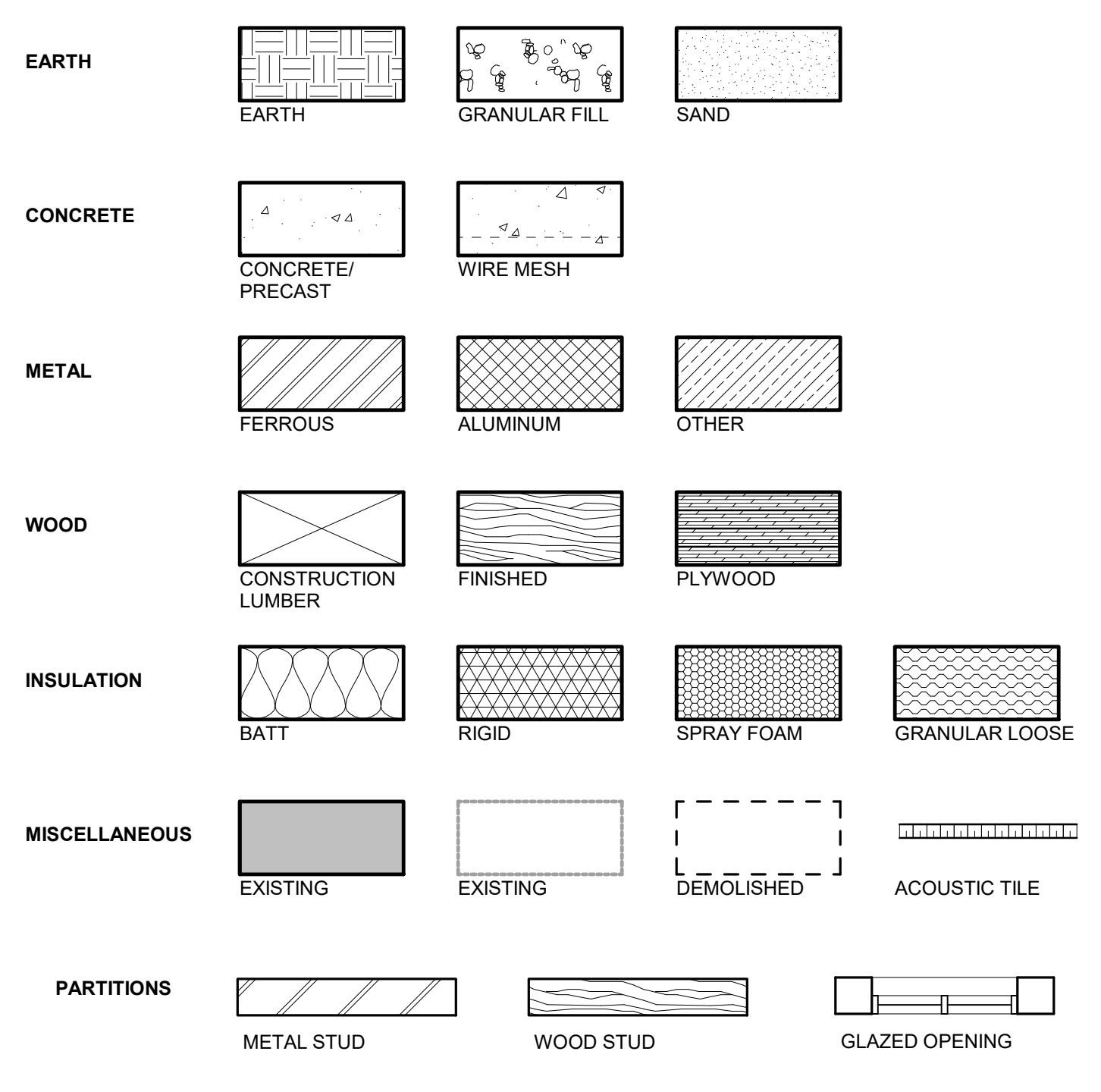
ABBREVIATIONS

| | | | |
|---------|-----------------------------|--------|---------------------------|
| & | AND | MIS | MIRROR WITH SHELF |
| @ | AT | MATL | MATERIAL |
| ACT | ACUSTICAL CEILING TILE | MAX | MAXIMUM |
| AF | ACCESS FLOORING | MBD | MARKERBOARD |
| AF# | ABOVE FINISHED FLOOR | MECH | MECHANICAL |
| ALT # | ALTERNATE NUMBER | MIN | MINIMUM |
| ALUM | ALUMINUM | MIR | MIRROR |
| AP | ACCESS PANEL | MISC | MISCELLANEOUS |
| BLDG | BUILDING | NIC | NOT IN CONTRACT |
| CG | CORNER GUARD | NO | NUMBER |
| CIP | CAST-IN-PLACE | NSF | NON-SLIP FLOORING |
| CJ | CONTROL JOINT | NTS | NOT TO SCALE |
| CL | CENTER LINE | OH | OVERHEAD |
| CLG | CEILING | P LAM | PLASTIC LAMINATE |
| CMU | CONCRETE MASONRY UNIT | P TILE | PORCELAIN TILE |
| CONC | CONCRETE | PT | PAINT |
| CONT | CONTINUOUS | PTD | PAINTED |
| CRF | CHEMICAL RESISTANT FLOORING | PVC | POLYVINYL CHLORIDE |
| CT | CERAMIC TILE | R | RADIUS |
| CTP | COUNTERTOP | RCP | REFLECTED CEILING PLAN |
| CJ | CONDENSING UNIT | RD | ROOF DRAIN |
| CUH | CABINET UNIT HEATER | RES | RESILIENT |
| CW- (#) | CURTAINWALL TYPE | RH | RELIEF HOOD |
| DEMO | DEMOLITION | RM | ROOM |
| DF | DRINKING FOUNTAIN | RTU | ROOF TOP UNIT |
| DIA | DIAMETER | RUB | RUBBER |
| DN | DOWN | RWL | RAIN WATER LEADER |
| E PT | EPOXY PAINT | SCHED | SCHEDULE |
| EJ | EXPANSION JOINT | SD | SOAP DISPENSER |
| ELEC | ELECTRICAL | SF | SQUARE FOOT (FEET) |
| ELEV | ELEVATION | SM | SIMILAR |
| EWC | ELECTRIC WATER COOLER | SND | SANITARY NAPKIN DISPENSER |
| EXIST | EXISTING | SNR | SANITARY NAPKIN RECEPTOR |
| EXP | EXPOSED | SST | STAINLESS STEEL |
| FD | FLOOR DRAIN | STRUCT | STRUCTURAL |
| FE | FIRE EXTINGUISHER | TBD | TACKBOARD |
| FF&E | FIXTURES | TEMP | TEMPORARY |
| FFE | FINISHED FLOOR ELEVATION | TPH | TOILET PAPER HOLDER |
| FRP | FIBERGLASS REINFORCED PANEL | TYP | TYPICAL |
| GA | GAUGE | UL | UNDERWRITERS' LABORATORY |
| GB | GRAB BAR | UNO | UNLESS NOTED OTHERWISE |
| GYP BD | GYP SUM BOARD | UR | URINAL |
| HCAP | HANDICAPPED | VIF | VERIFY IN FIELD |
| HM | HOLLOW METAL | VTR | VENT THROUGH ROOF |
| ID | INSIDE DIAMETER | W- (#) | WINDOW TYPE |
| INSUL | INSULATION | WC | WATER CLOSET |
| L- (#) | LOUVER TYPE | WD | WOOD |
| LAV | LAVATORY | WSCT | WAINSCOT |
| LFD | LINEAR FLOOR DRAIN | WWF | WELDED WIRE FABRIC |

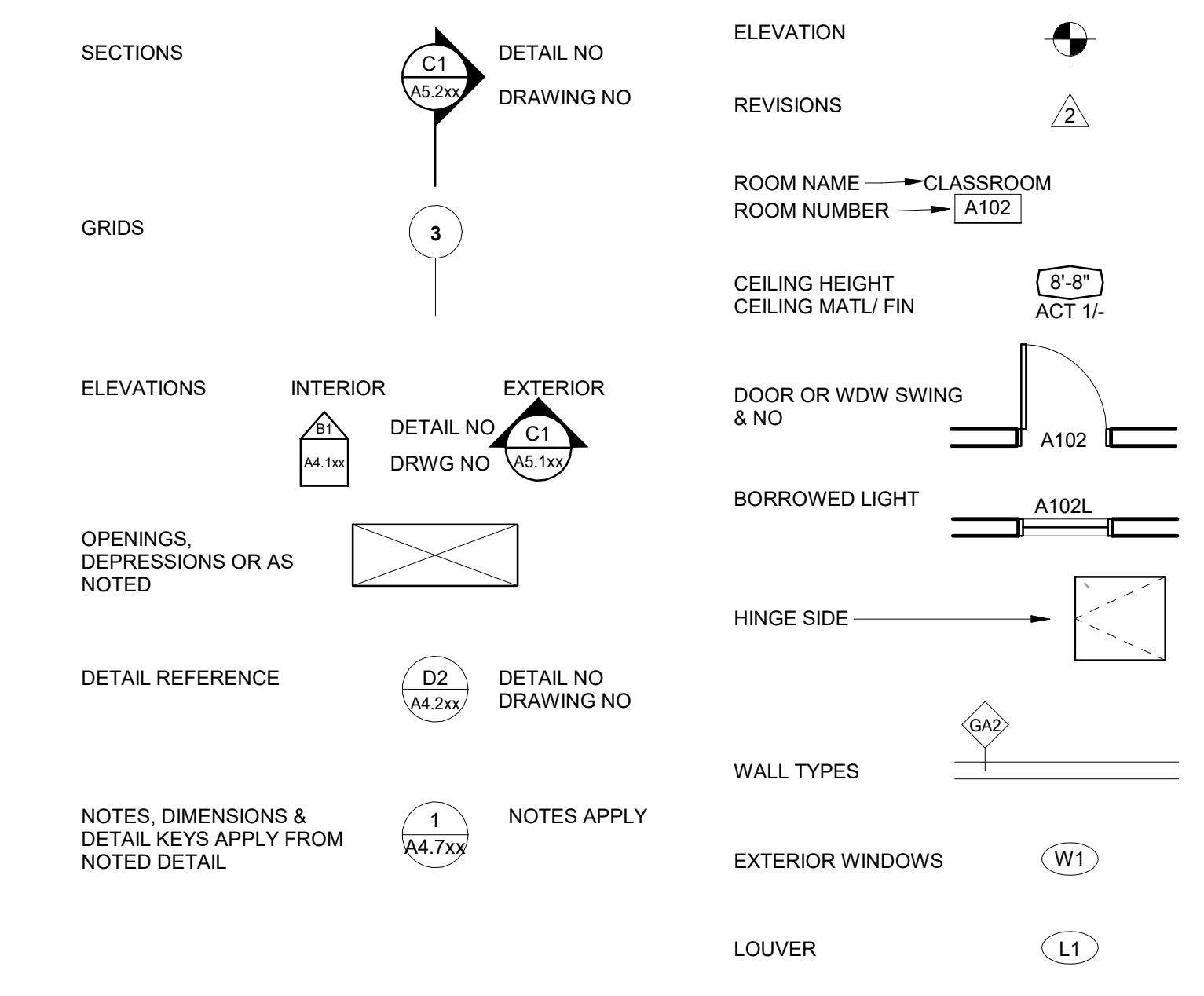
INTERIOR MATERIAL FINISH/ COLOR SCHEDULE

| Key Item | Manufacturer | Color/ Finish |
|---|---|---|
| 07 46 00 Manufactured Roof & Wall Panels Sealant | As specified | Color: Custom or standard to match metal. |
| 08 36 00 Sectional Metal Overhead Doors | As specified | Color: White |
| 08 51 13 Aluminum Windows Prefinished Windows And Accessories | As specified | Color: |
| 08 91 00 Louvers | As specified | Custom color to match the material in which louver occurs |
| 09 91 00 Painting | | |
| PT-1 | PT 1-Exterior HM doors and frames | Sherwin Williams Color: |
| PT-2 | PT 2-Exterior Misc. Metals, Mech. Piping, Equipment | Sherwin Williams Color: |
| PT-3 | PT 3-Exterior Rooftop Equipment | Sherwin Williams Color: |
| PT-4A | PT 4A-Interior HM Frames | Sherwin Williams Color: |
| PT-4B | PT 4B-Interior HM Doors | Sherwin Williams Color: |
| PT-5 | PT 5-Interior Misc. Metals | Sherwin Williams Color: |
| PT-6A | PT 6A-Walls | Sherwin Williams Color: |
| PT-8 | PT 8-Ceilings | Sherwin Williams Color: |
| 12 32 16 Plastic Laminate Casework | TMI | Color: |
| PVC Edging-Countertop | TMI | Color: |
| PVC Edging-Casework | TMI | Color: |
| 13 34 21 Pre-Engineered Wood Building | | |
| Prefinished Metal Siding | PEMB MFR | Color: As selected by Architect from standard colors |
| Prefinished Metal Siding - Wainscot | PEWB MFR | Color: As selected by Architect from standard colors |
| Prefinished Metal Roofing | PEWB MFR | Color: As selected by Architect from standard colors |
| Prefinished Soffit, Soffit Trim, and Rake Trim | PEWB MFR | Color: As selected by Architect from standard colors |

SYMBOLS



SYMBOLS



New Public Works Facility

24001 Fire Hall Lane
Rockville, MN 56369

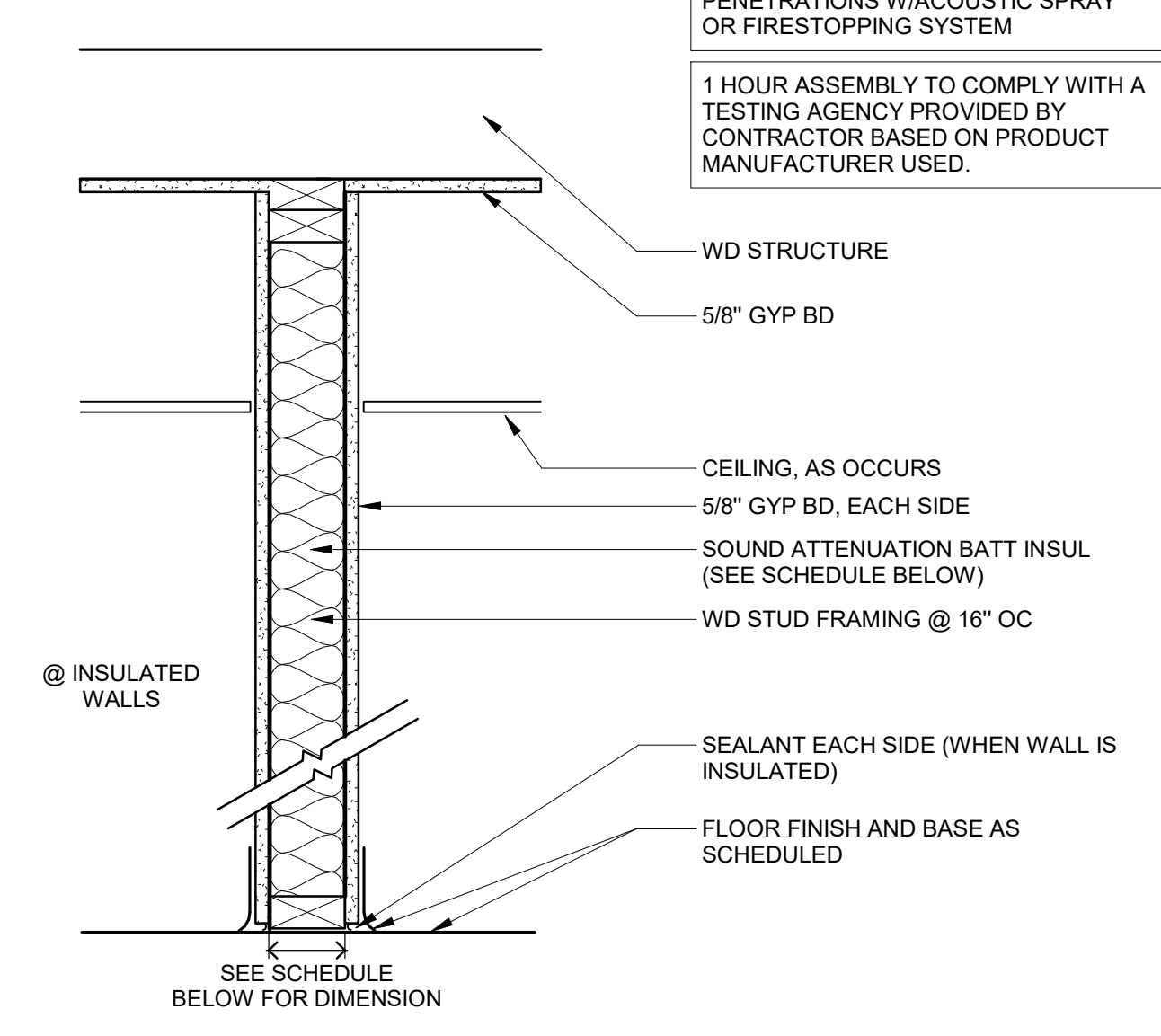
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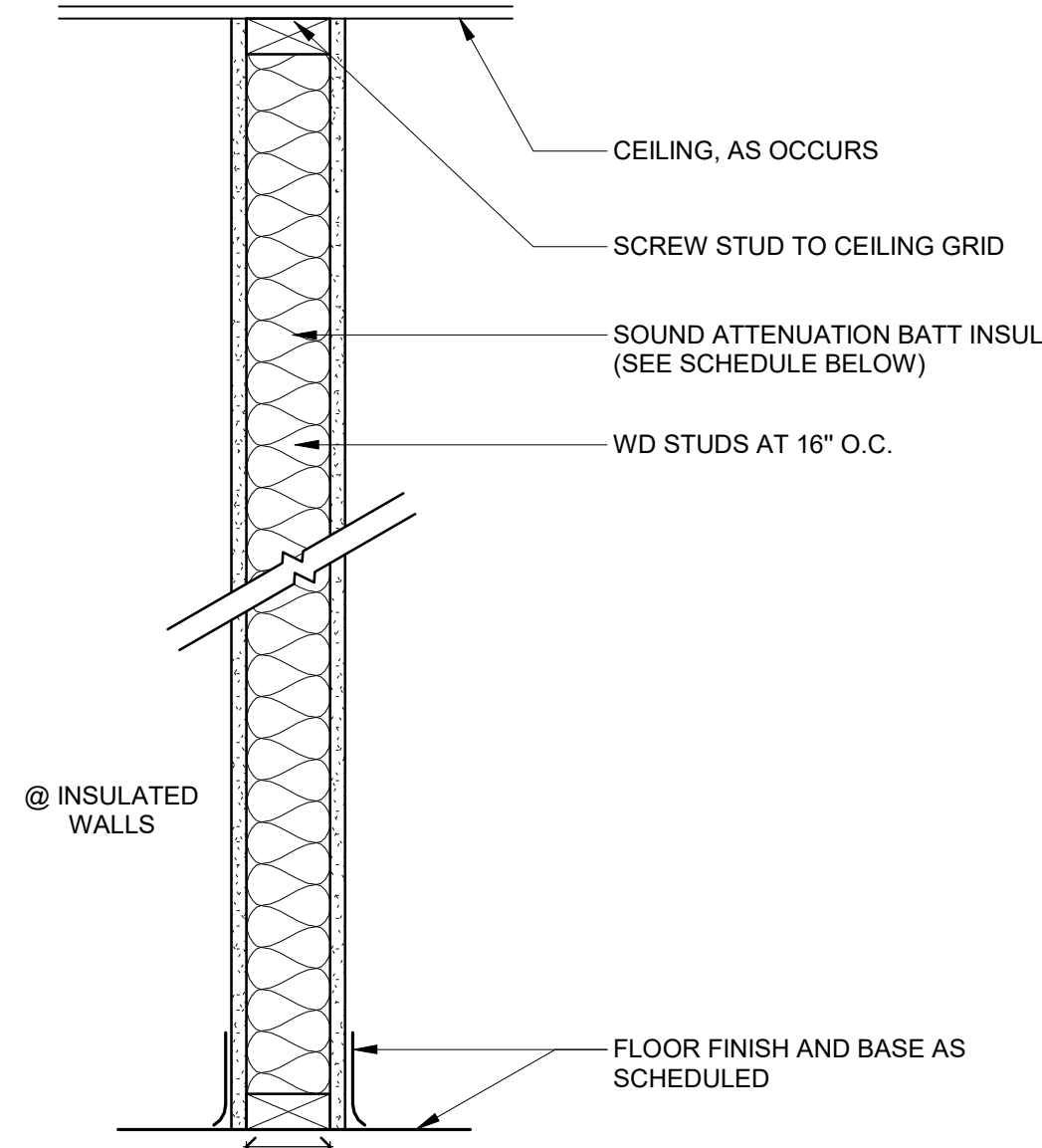
WOLD ARCHITECTS AND ENGINEERS
332 Minnesota Street, Suite W2000
Saint Paul, MN 55101
woldae.com | 651 227 7773

SEAL ALL MECHANICAL/ELECTRICAL PENETRATIONS W/ACOUSTIC SPRAY OR FIRESTOPPING SYSTEM

1 HOUR ASSEMBLY TO COMPLY WITH A TESTING AGENCY PROVIDED BY CONTRACTOR BASED ON PRODUCT MANUFACTURER USED.



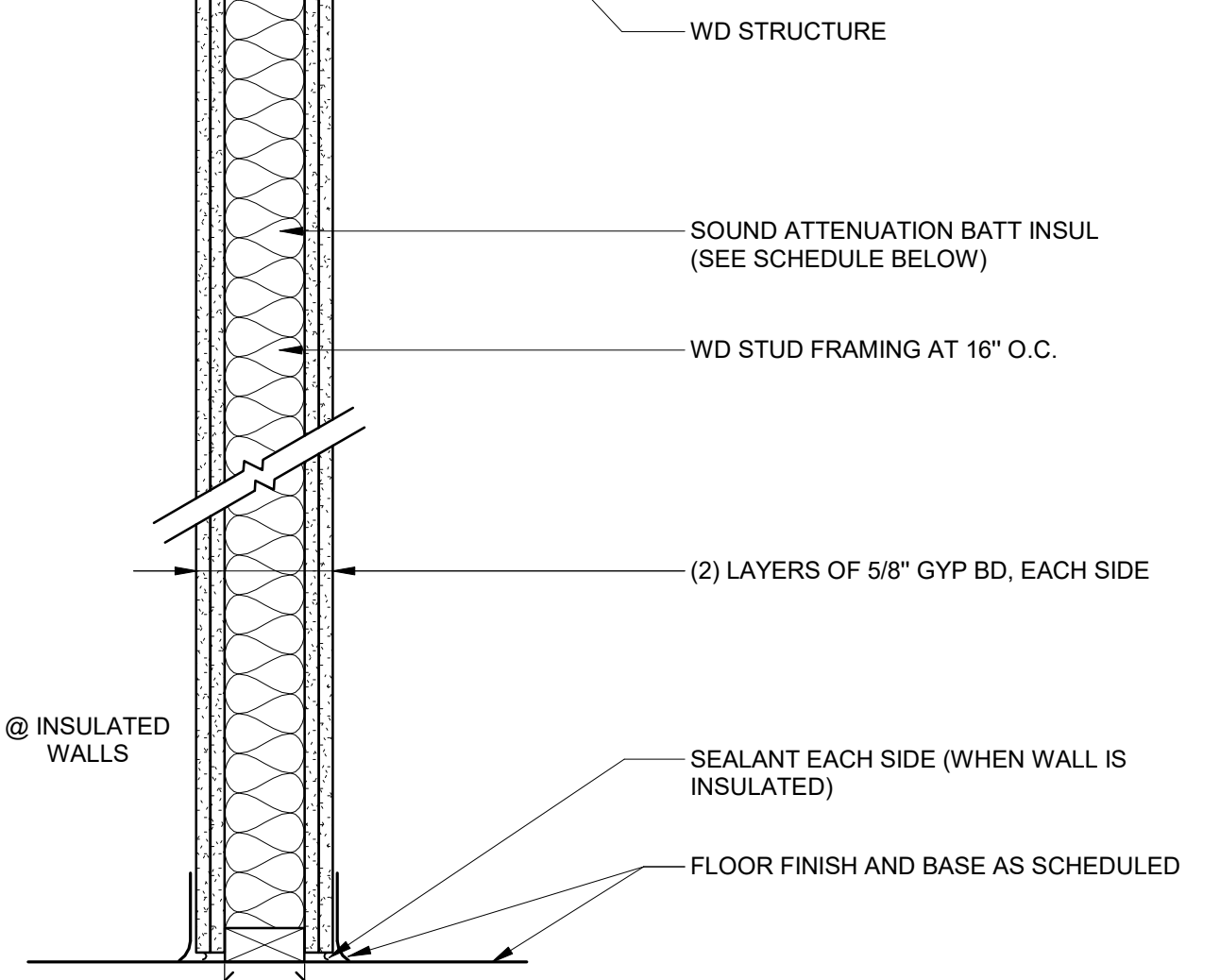
WALL TYPE WA
1 1/2" = 1'-0"



WALL TYPE WG
1 1/2" = 1'-0"

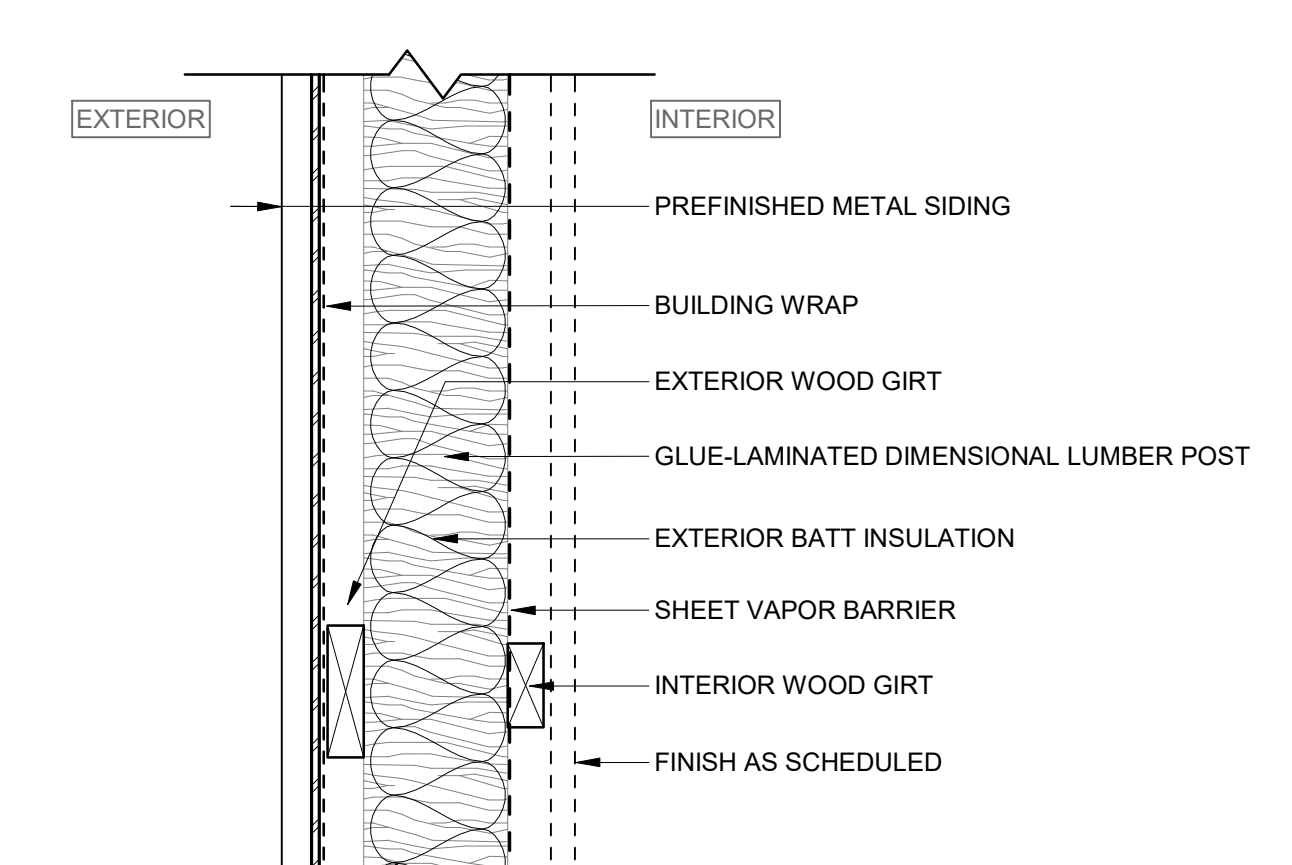
2 HOUR WALL TO COMPLY WITH A TESTING AGENCY PROVIDED BY CONTRACTOR BASED ON PRODUCT MANUFACTURER USED.

SEAL ALL MECHANICAL/ELECTRICAL PENETRATIONS W/ACOUSTIC SPRAY OR FIRESTOPPING SYSTEM

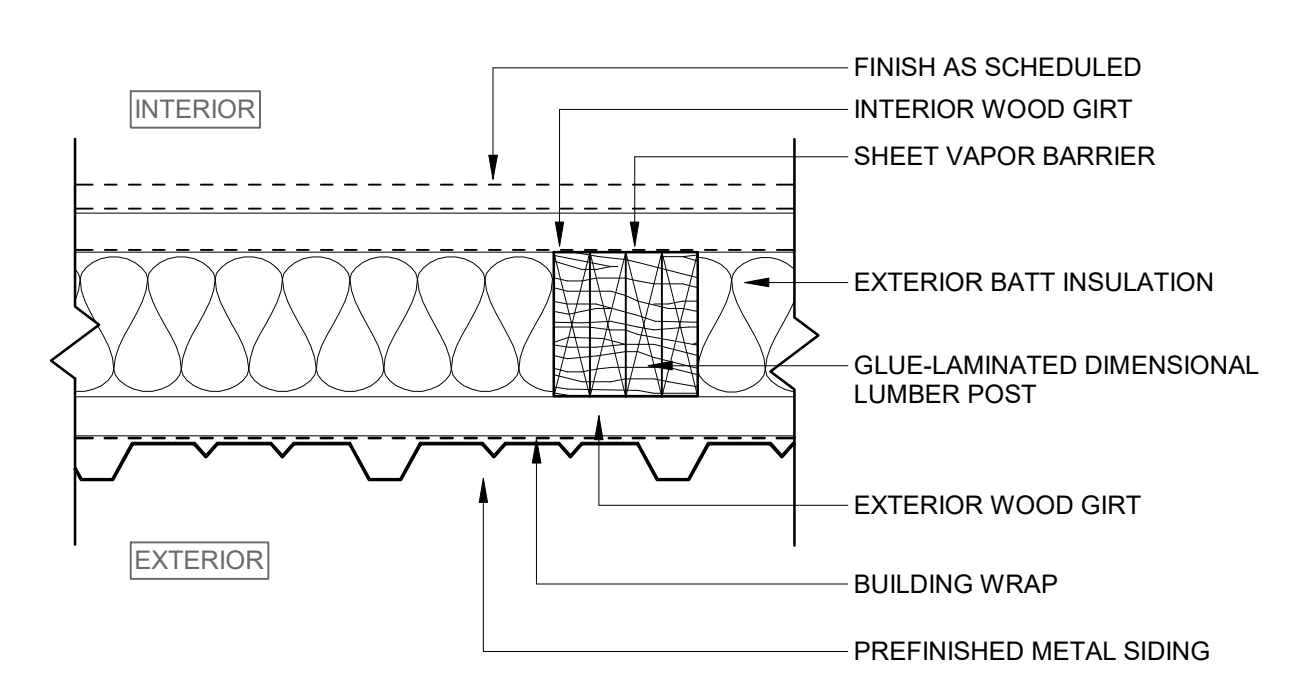


WALL TYPE WN
1 1/2" = 1'-0"

SECTION



PLAN

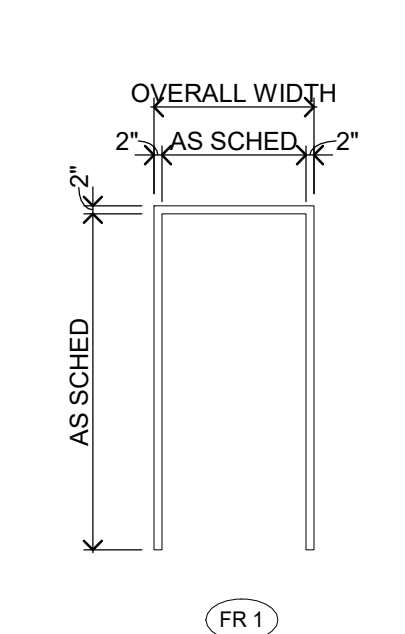


WALL TYPE EW-001
1 1/2" = 1'-0"

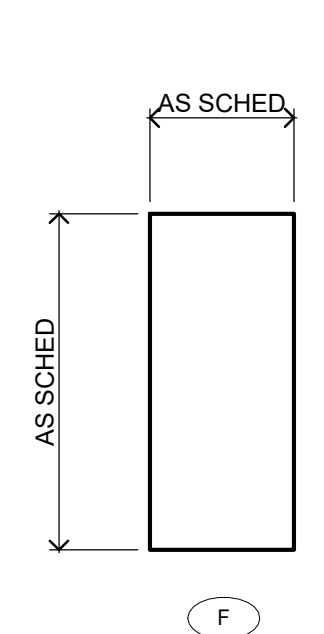
| TYPE | STUD SIZE | INSULATION | MIN STC | NOTES |
|------|-----------|------------|---------|-------|
| WA | 16" | None | None | |

| TYPE | STUD SIZE | INSULATION | MIN STC | NOTES |
|------|-----------|------------|---------|-------|
| WG | 16" | None | None | |

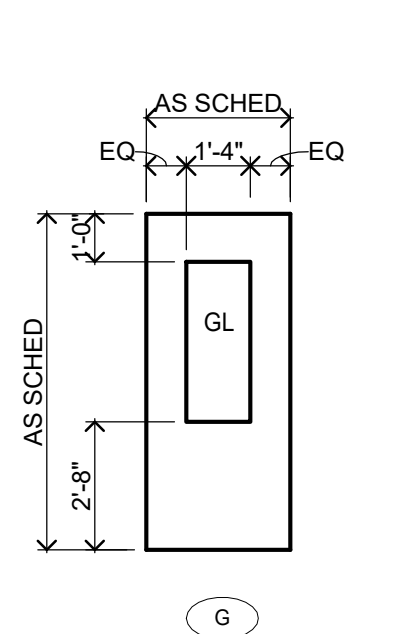
| TYPE | STUD SIZE | INSULATION | MIN STC | NOTES |
|------|-----------|------------|---------|-------|
| WN | 16" | None | None | |



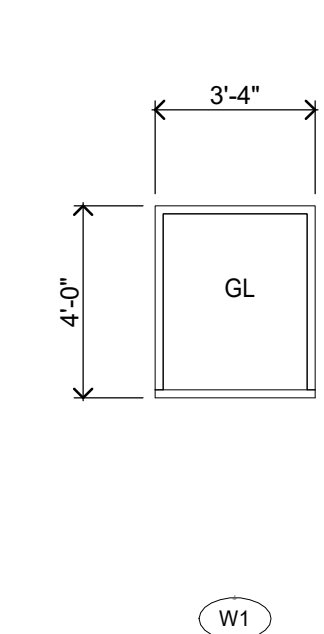
FRAME TYPES



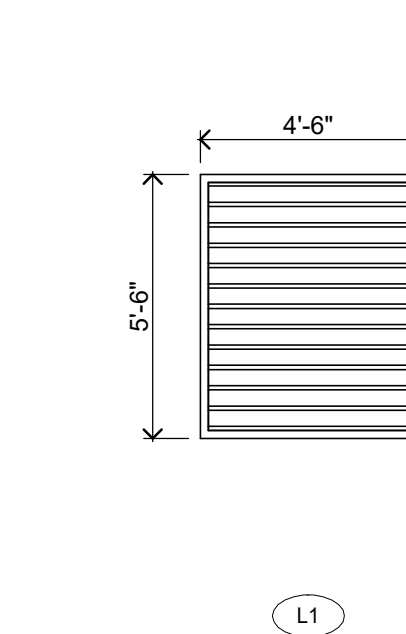
DOOR TYPES



DOOR TYPE OH



WINDOW TYPES



LOUVER TYPES

I hereby certify that this plan, specification or report was prepared by me or under my direct supervision and that I am a duly Licensed ARCHITECT under the laws of the State of MINNESOTA

JOEL DUNNING
Date: 2020.12.2x
License Number: 41467

| Description | Revisions | |
|-------------|-----------|-----|
| | Date | Num |
| | | |
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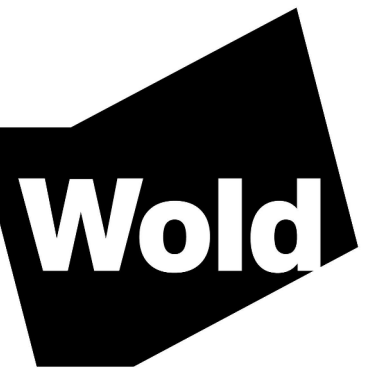
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Drawn: KLS
Check: JW

SYMBOLS, ABBREVIATIONS, SCHEDULES, WALL ASSEMBLIES & OPENING TYPES

Scale: As indicated

95% CD'S / OWNER REVIEW SET
NOT FOR CONSTRUCTION

A1.01



| DOOR / OPENING SCHEDULE | | | | | | | | | | | | | | |
|-------------------------|------|----------------|--------|----------------|---------------|--------|-------|-------|---------------------|----|------|---------|---------|------|
| DOOR NO | TYPE | DOOR / OPENING | | LABEL / RATING | OVERALL WIDTH | FRAME | | | MOUNTING CONDITIONS | | | HDW GRP | REMARKS | |
| | | QTY | WIDTH | | | HEIGHT | TYPE | DEPTH | MATL | GL | HEAD | | | JAMB |
| A101A | G | 1 | 3'-0" | 7'-0" | HM | -- | 3'-4" | FR 1 | -- | HM | -- | | | Ba |
| A101B | 1 | 16'-0" | 14'-0" | ST | -- | | | OH | -- | ST | -- | | | |
| A101C | 1 | 16'-0" | 14'-0" | ST | -- | | | OH | -- | ST | -- | | | |
| A101D | 1 | 16'-0" | 14'-0" | ST | -- | | | OH | -- | ST | -- | | | |
| A102A | G | 1 | 3'-0" | 7'-0" | HM | -- | 3'-4" | FR 1 | -- | HM | -- | | | |
| A102B | F | 1 | 3'-0" | 7'-0" | HM | -- | 3'-4" | FR 1 | -- | HM | -- | | | |
| A102C | F | 1 | 3'-0" | 7'-0" | HM | 90 MIN | 3'-4" | FR 1 | -- | HM | -- | | | |
| A102D | 1 | 16'-0" | 14'-0" | ST | -- | | | OH | -- | ST | -- | | | |
| A102E | 1 | 16'-0" | 14'-0" | ST | -- | | | OH | -- | ST | -- | | | |
| A106B | 1 | 8'-0" | 8'-0" | ST | -- | | | OH | -- | ST | -- | | | |

DOOR SCHEDULE GENERAL NOTES

- ALL DOORS ARE 1 3/4" THICK UNLESS OTHERWISE NOTED.
- FOR FRAME DEPTH, ONLY EXCEPTIONS TO THE FOLLOWING TABLE ARE SCHEDULED:
GYPSUM BOARD PARTITIONS: THROAT OF FRAME TO MATCH WALL THICKNESS.
FRAME DEPTHS ARE SCHEDULED IN NOMINAL DIMENSIONS. SEE FRAME/DOOR TYPES (DETAIL SECTION 5100) FOR CORRESPONDING ACTUAL DIMENSIONS.
- FOR GLASS TYPES, ONLY EXCEPTIONS TO THE FOLLOWING TABLE ARE SCHEDULED:
INTERIOR NON-RATED:
CLEAR (SAFETY WHEN REQUIRED BY TABLE IN GLAZING SPECIFICATION)
INTERIOR AND EXTERIOR RATED:
FIRE RATED
EXTERIOR NON-RATED:
CLEAR INSULATED (SAFETY INSULATED WHEN REQUIRED BY TABLE IN GLAZING SPECIFICATION)
- SEE SHEET A101 FOR DOOR & FRAME TYPES.

DOOR SCHEDULE REMARKS

- SEE DETAIL 43018 FOR USE WITH ALTERNATE #1
- SEE DETAIL 54012 FOR USE WITH ALTERNATE #1
- PROVIDE FIRE NUMBER AT EXTERIOR DOORS DOOR NUMBER N - "

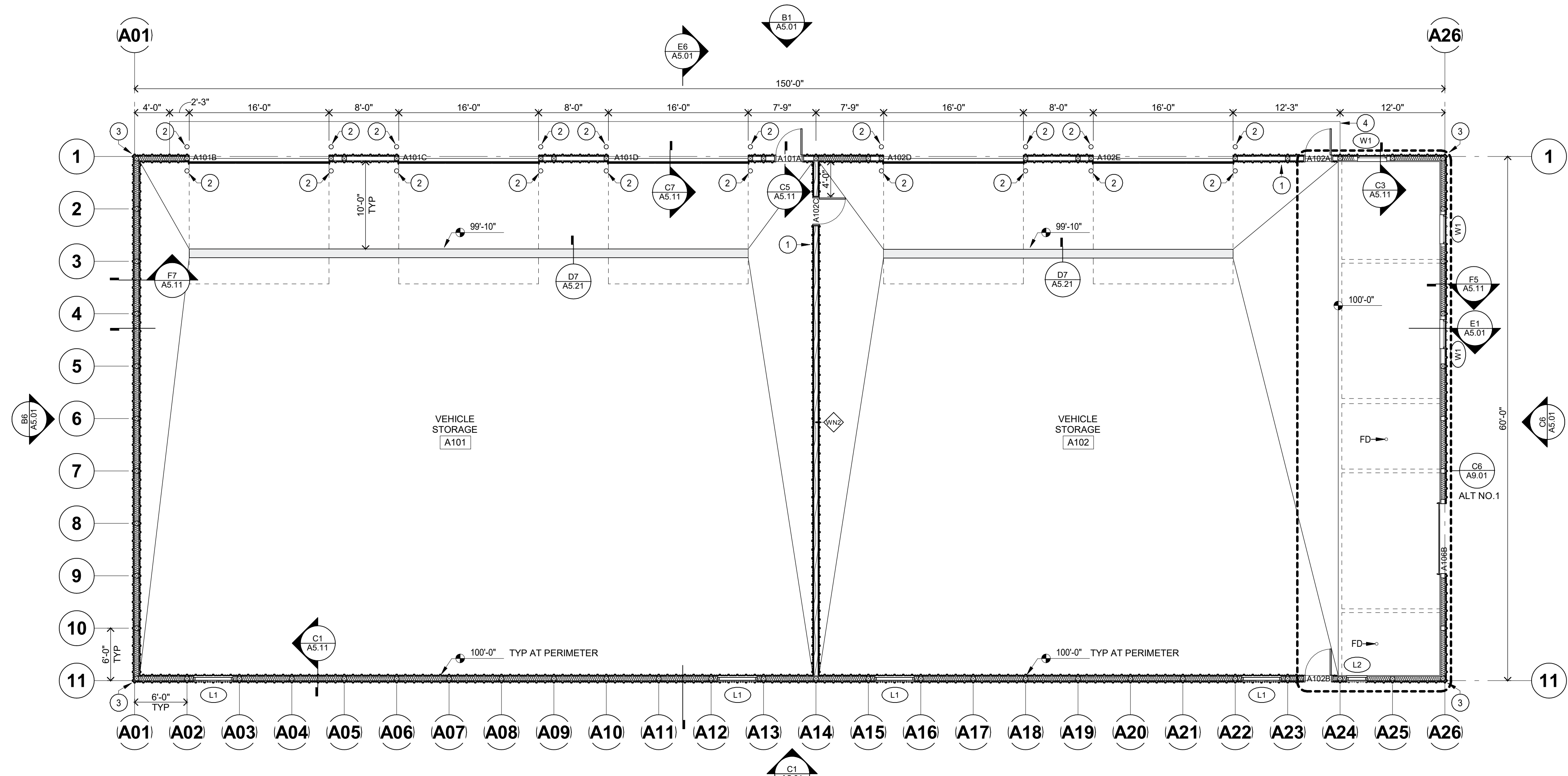
| ROOM FINISH SCHEDULE | | | | | | | | | | | | |
|----------------------|-----------------|-------|------|--------------|--------|-----------|--------|-----------|-------------|-----------|--------|---------|
| ROOM NO | ROOM NAME | FLOOR | BASE | N WALL - TYP | | E WALL | | S WALL | | W WALL | | REMARKS |
| | | | | MATL | FIN | MATL | FIN | MATL | FIN | MATL | FIN | |
| A101 | VEHICLE STORAGE | CONC | | MTL PANEL | PREFIN | MTL PANEL | PREFIN | MTL PANEL | PREFIN | MTL PANEL | PREFIN | |
| A102 | VEHICLE STORAGE | CONC | | MTL PANEL | PREFIN | | | MTL PANEL | PREFIN / -- | MTL PANEL | PREFIN | 1 |

ROOM FINISH SCHEDULE GENERAL NOTES

- SEE DETAILS OF CONSTRUCTION FOR ABBREVIATIONS
- DISCREPANCIES BETWEEN THE ROOM FINISH SCHEDULE AND DRAWINGS SHALL BE REPORTED TO THE ARCHITECT FOR FINISH DETERMINATION.
- ON WALLS WHICH ARE COVERED WITH MILLWORK AND TACK SURFACES, A FINISH SHALL NOT BE APPLIED TO THE WALL BEHIND EXCEPT FOR LOCATIONS WHICH MAY BE EXPOSED (I.E. SPACE BETWEEN MILLWORK AND TACK SURFACE.)
- REFER TO MATERIAL FINISH/ COLOR SCHEDULE FOR SPECIFIC FINISH TYPES AND COLORS.
- FOR CEILING MATERIAL WHEN MORE THAN ONE CEILING MATERIAL OCCURS THE CEILING FINISH IS INDICATED THUS: "1".

ROOM FINISH SCHEDULE REMARKS

- OMIT METAL LINER PANELS EAST OF GRID A24 AT NORTH & SOUTH WALLS - SEE ALTERNATE NO.1 FOR EXTENTS OF OFFICE BUILDOUT
- PROVIDE VINYL BASE AT CASEWORK.
- PAINT ALL EXPOSED CEILING ITEMS, INC. STRUCTURE, DUCTWORK, ELECTRICAL, ETC. BLACK.
- SLOPE CONC. FLOOR TOWARDS EXTERIOR DOOR. SEE PLANS FOR FLOOR/SLOPING INFORMATION.



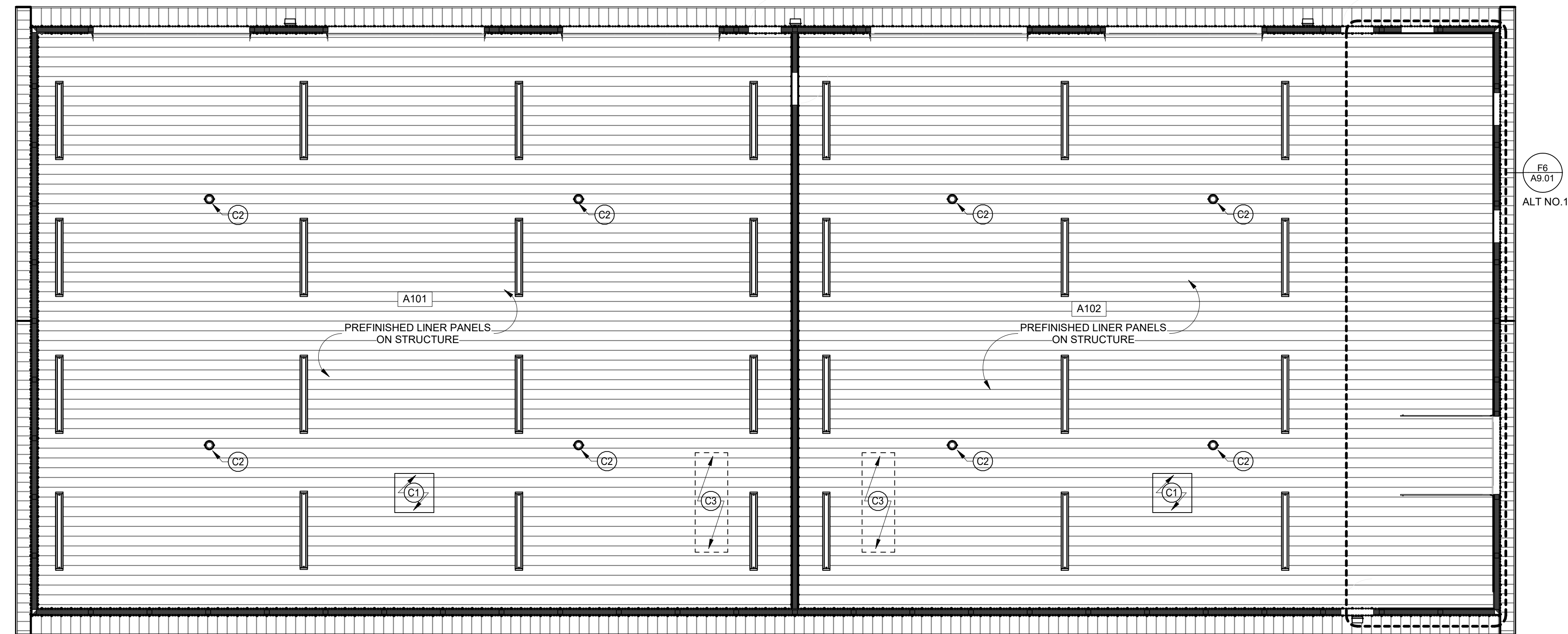
C3 MAIN LEVEL FLOOR PLAN
1/8" = 1'-0"

PLAN GENERAL NOTES

- ALL PLAN DIMENSIONS ARE NOMINAL TO FACE OF WALL. WALL THICKNESSES ARE SHOWN NOMINAL, SEE WALL TYPES FOR ACTUAL THICKNESS.
- ALL GYP. WALLS ARE TO BE 5 INCHES THICK UNLESS OTHERWISE NOTED.
- FIRE RATED WALLS ARE INDICATED ON CODE PLANS.
- COORDINATE SIZE AND LOCATION OF ALL DUCT AND SHAFT OPENINGS IN WALLS AND FLOORS W/ MECH. AND ELEC. PROVIDE ALL REQUIRED LINTELS FOR OPENINGS. SEE LINTEL SCHEDULE.
- FIELD VERIFY ALL MILLWORK OPENINGS.
- SET FLOOR DRAINS 3/4" BELOW FINISHED CONCRETE FLOORS UNLESS OTHERWISE NOTED. PROVIDE CONSISTENT SLOPE FROM WALL TO DRAIN BY SLOPING CONCRETE, MIN. 1/4" PER FOOT.
- VERIFY LOCATION, SIZE AND QUANTITY OF ALL MECHANICAL AND ELECTRICAL EQUIPMENT PADS.
- ALL DOOR/SIDELITE OPENINGS TO BEGIN 4" FROM ADJACENT WALL UNLESS OTHERWISE NOTED.
- ALL GYP. WALLS ARE CENTERED ON GRID UNLESS OTHERWISE NOTED.

FLOOR PLAN KEY NOTES:

- | | |
|--|---|
| 1 PORTABLE FIRE EXTINGUISHER - (BY OWNER?) | 7 ELECTRICAL EQUIPMENT - SEE ELECTRICAL |
| 2 BOLLARD - SEE DETAIL F1/A5.21 | 8 (NOT USED) |
| 3 METAL SIDING CORNER TRIM | 9 (NOT USED) |
| 4 4'-0" x 134'-0" CONCRETE APRON - SEE DETAIL F5/A5.21 | 10 (NOT USED) |
| 5 EYE WASH - SEE MECHANICAL | |
| 6 MECHANICAL EQUIPMENT - SEE MECHANICAL & ELECTRICAL | |



F3 MAIN LEVEL REFLECTED CEILING PLAN
1/8" = 1'-0"

RCP GENERAL NOTES

- FOR WALLS THAT PENETRATE CEILINGS SEE WALL TYPES SHOWN ON THE FLOOR PLAN.
- SPRINKLER HEADS ARE NOT SHOWN. LOCATE ALL SPRINKLER HEADS IN THE CENTER OF CEILING TILES.
- FOR DIFFUSER AND RETURN GRILL SIZES, SEE MECHANICAL PLANS.
- FOR LIGHT FIXTURE TYPES, SEE ELECTRICAL LIGHTING PLANS.
- CEILING HEIGHTS INDICATED ON PLAN (E.G. 9'-0") ARE FROM FINISHED FLOOR OF LEVEL OF PLAN SHOWN OR INDICATED AS 109'-0".
- ACOUSTICAL TILE CEILING GRID IS TO BE CENTERED IN RECTANGULAR ROOM OR CENTERED BETWEEN LONGEST WALLS OF IRREGULARLY SHAPED ROOMS UNLESS OTHERWISE NOTED.
- VERIFY GYP. BD. CONTROL JOINT LOCATIONS WITH ARCHITECT PRIOR TO INSTALLATION.

RCP KEY NOTES:

- INSULATED ACCESS PANEL
- DESTRATIFICATION FAN - SEE MECHANICAL AND ELECTRICAL
- MAKEUP AIR UNIT (MAU) HANGING FROM TRUSSES - SEE MECHANICAL AND ELECTRICAL. BASIS OF DESIGN IS 940 LBS EA UNIT. VERIFY ACTUAL WEIGHT OF UNIT WITH MECHANICAL CONTRACTOR.

RCP LEGEND

- | | | | |
|--|---------------------------------------|--|------------------------------------|
| | 4' STRIP LIGHT FIXTURE | | DESTRATIFICATION FAN |
| | 8' STRIP LIGHT FIXTURE | | EXHAUST GRILLE |
| | 2 X 4 LIGHT FIXTURE (IN CEILING GRID) | | PTD. GYPSUM BOARD CEILING / SOFFIT |

I hereby certify that this plan, specification or report was prepared by me or under my direct supervision and that I am a duly Licensed ARCHITECT under the laws of the State of MINNESOTA

JOEL DUNNING
License Number: 41467 Date: 2020.12.2x

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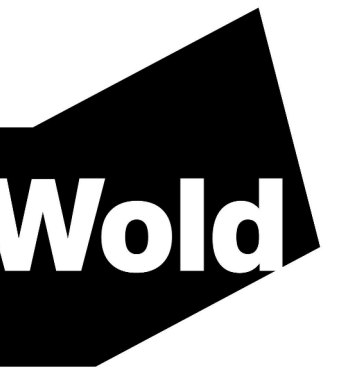
Comm: 202208
Date: 2020.12.2x
Drawn: KLS
Check: JW
North

MAIN LEVEL FLOOR PLAN & REFLECTED CEILING PLAN

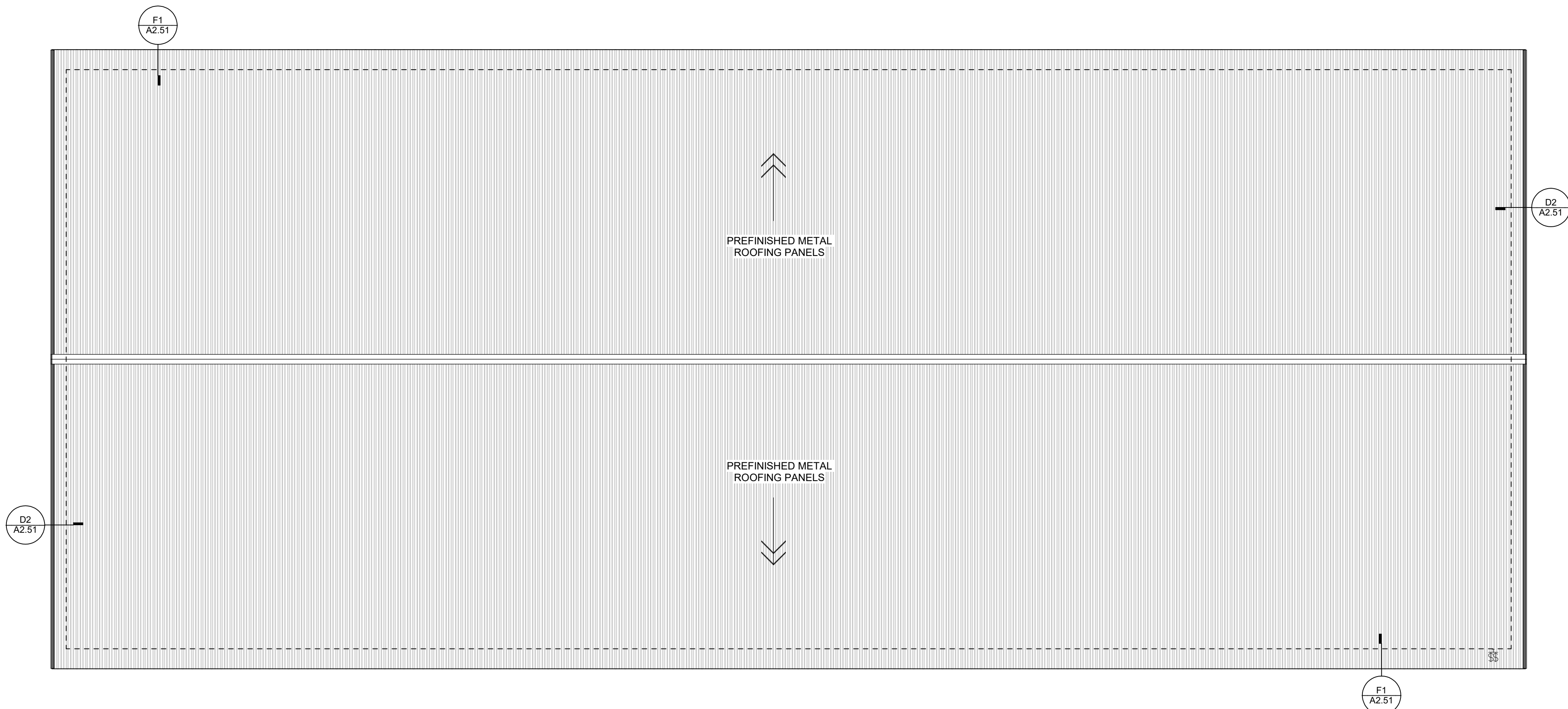
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NOT FOR CONSTRUCTION**

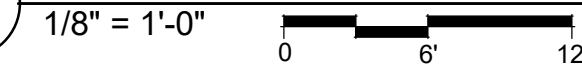
A2.01



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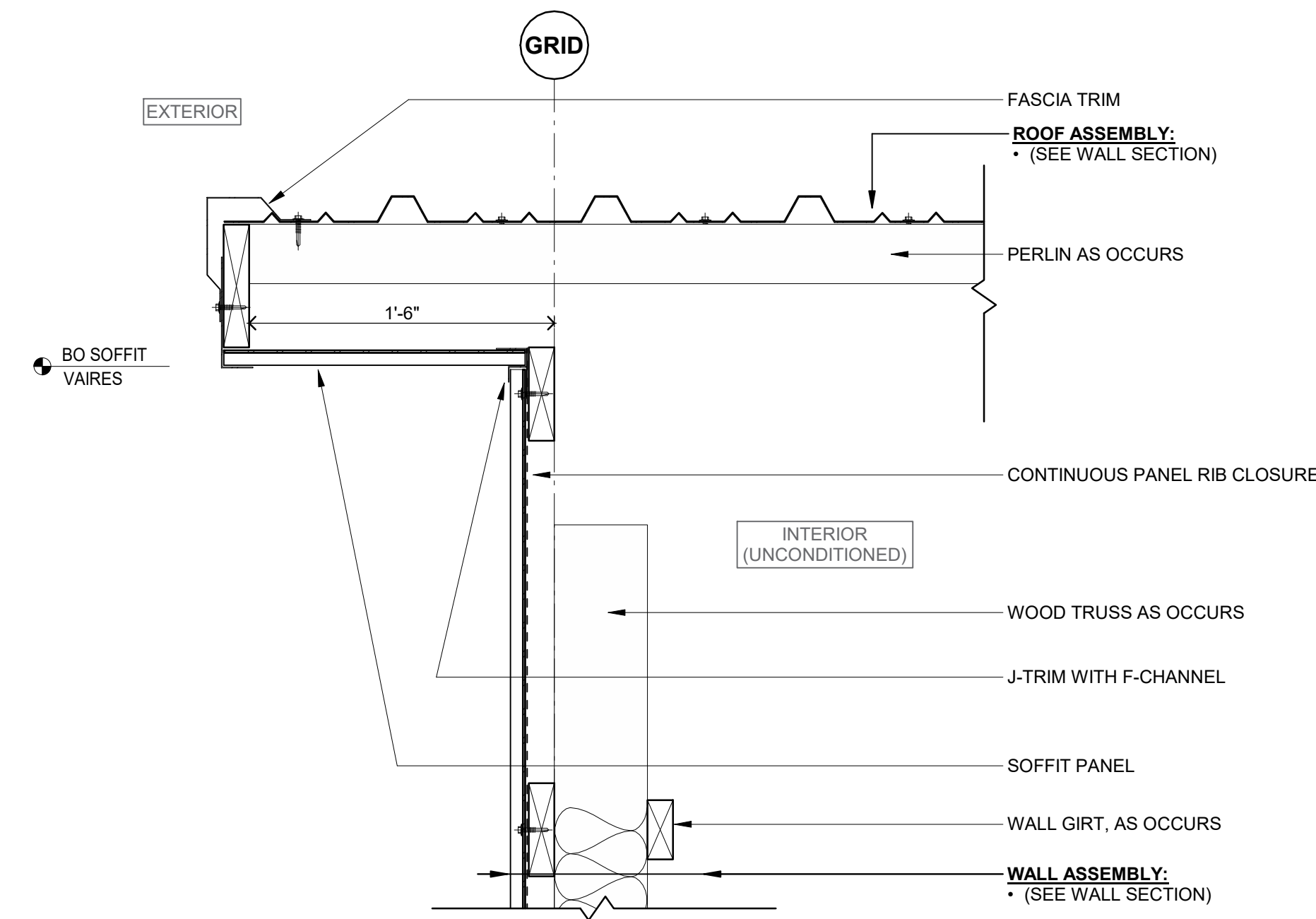
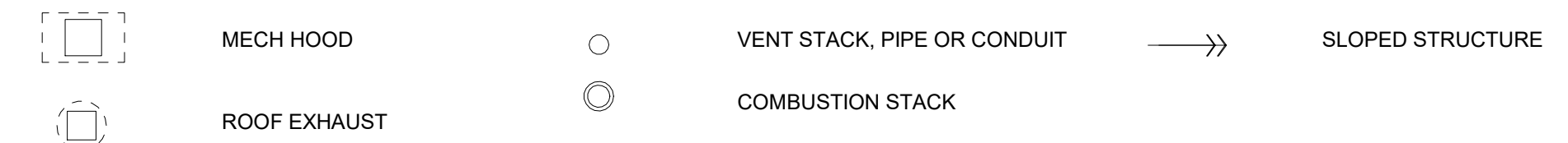
C4 ROOF PLAN
1/8" = 1'-0"



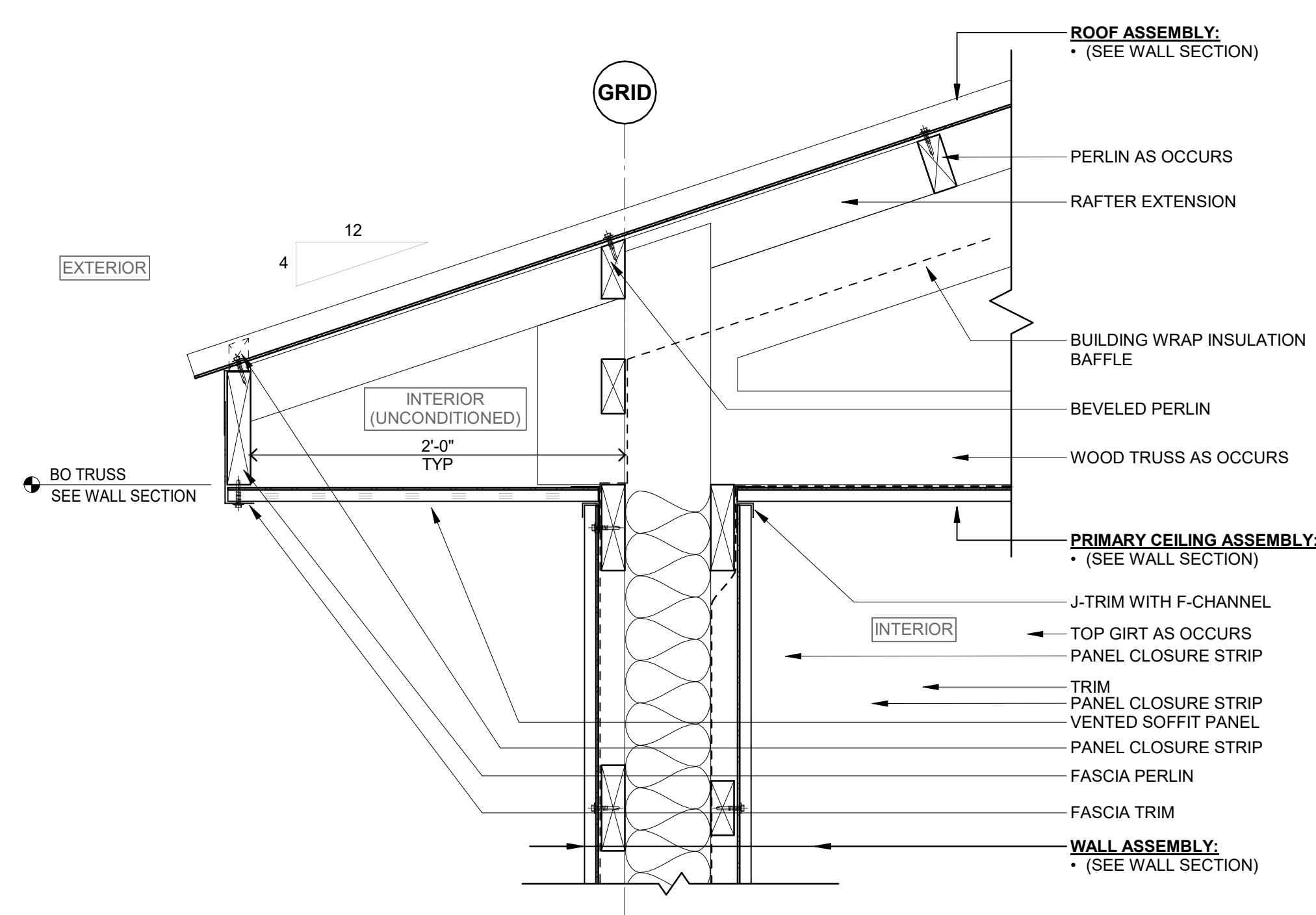
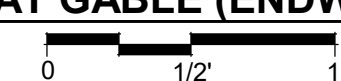
ROOF PLAN GENERAL NOTES

- AT MECH. OPENINGS AND CURBS ON ROOF, PROVIDE CRICKETS AS REQUIRED FOR POSITIVE DRAINAGE OR CUT OPENINGS IN FREE-STANDING CURBS AS AN ALTERNATIVE.
- MECHANICAL ITEM LOCATIONS ARE SHOWN FOR REFERENCE ONLY. REFER TO MECH. DRAWINGS FOR EXTENT OF MECH. EQUIP. AND SIZE AND LOCATION OF ALL ROOF PENETRATIONS.
- ALL MECHANICAL AND ELECTRICAL ROOFTOP EQUIPMENT, PIPING, CONDUIT, ETC. TO BE PAINTED.
- COORDINATE ROOF AND OVERFLOW DRAIN LOCATIONS WITH STRUCTURAL COMPONENTS TO AVOID LOCATING ROOF OR OVERFLOW DRAINS OVER TOP OF BEAMS OR JOISTS.
- REFER TO EXTERIOR ELEVATIONS FOR LOCATION OF OVERFLOW SCUPPERS AND OUTFLOWS.

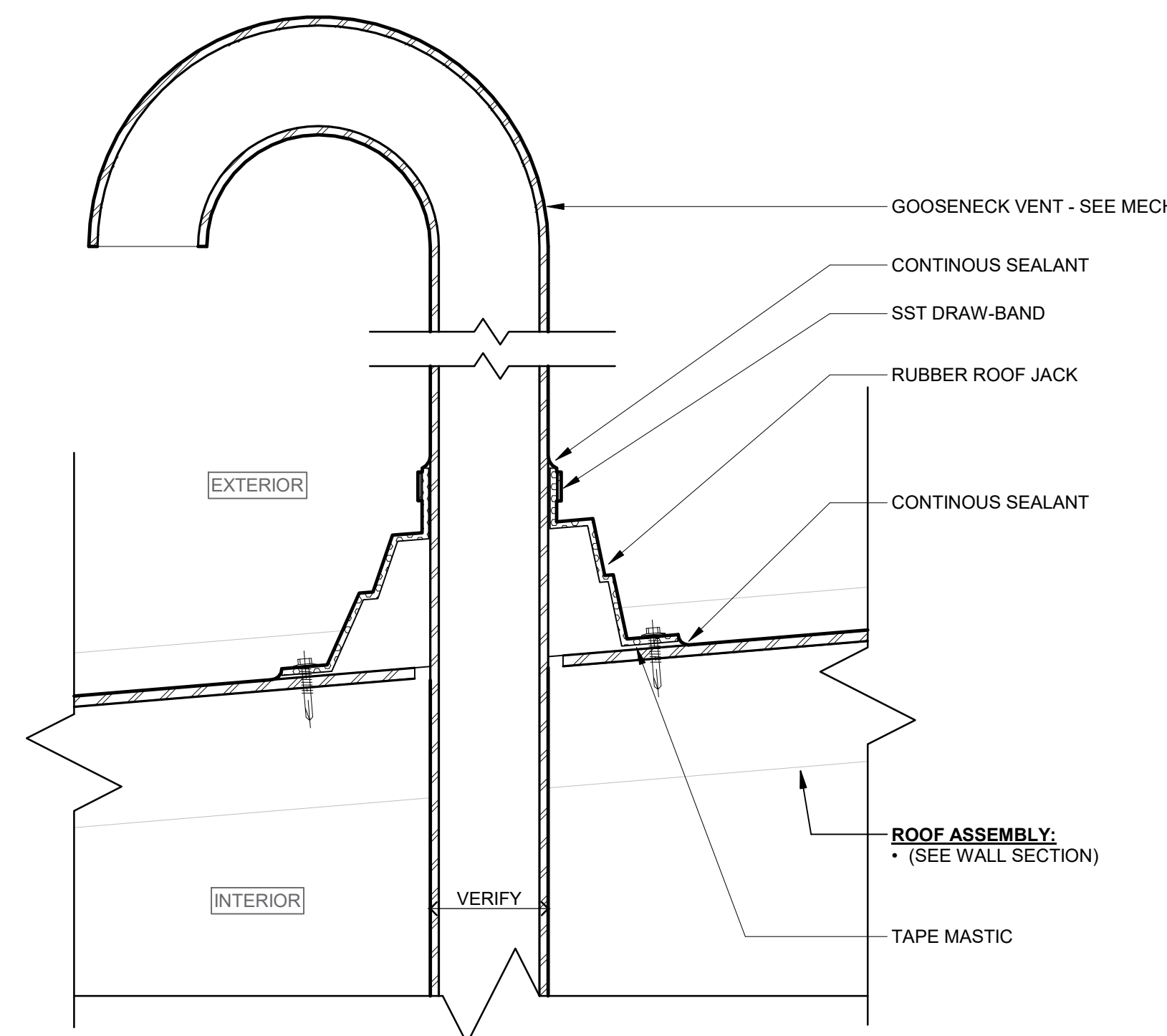
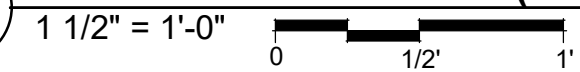
ROOF LEGEND



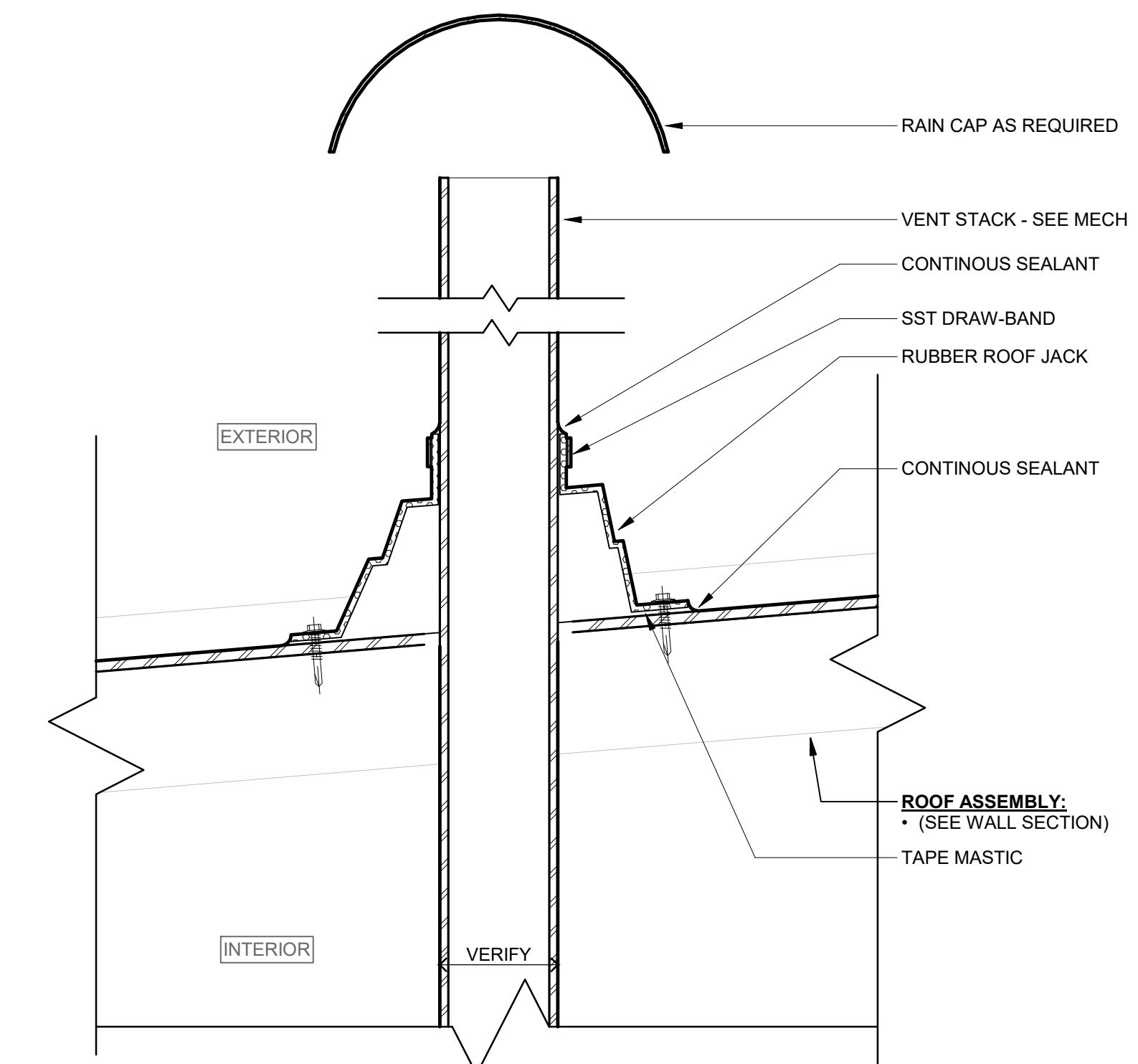
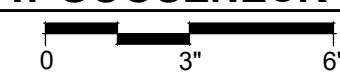
D2 SECTION AT GABLE (ENDWALL)
1 1/2" = 1'-0"



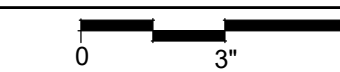
F1 SECTION AT SIDEWALL (EAVE)
1 1/2" = 1'-0"



F4 SECTION AT GOOSENECK VENT
3" = 1'-0"



F6 FLUE THROUGH ROOF
3" = 1'-0"



I hereby certify that this plan, specification or report was prepared by me or under my direct supervision and that I am a duly Licensed ARCHITECT under the laws of the State of MINNESOTA

JOEL DUNNING
License Number: 41467 Date: 2020.12.2x

| Description | Revisions | |
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North

ROOF PLAN & DETAILS

Scale: As indicated

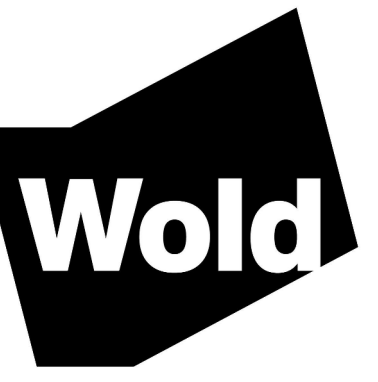
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A2.51

New Public Works Facility

24001 Fire Hall Lane
Rockville, MN 56369

City of Rockville
229 Broadway Street East
Rockville, MN 56369



WOLD ARCHITECTS AND ENGINEERS
332 Minnesota Street, Suite W2000
Saint Paul, MN 55101

woldae.com | 651.227.7773

| MATERIALS KEY | |
|---------------|-------------------------------------|
| KEY | MATERIAL |
| 05.95 | BOLLARD |
| 08.02 | HOLLOW METAL DOOR |
| 08.11 | SECTIONAL METAL OVERHEAD DOOR |
| 08.30 | PREFINISHED ALUMINUM WINDOW |
| 08.59 | PREFINISHED METAL LOUVER |
| 13.01 | PREFINISHED METAL SIDING - WAINSCOT |
| 13.02 | PREFINISHED METAL SIDING - WAINSCOT |
| 13.10 | PREFINISHED METAL ROOFING |
| 13.11 | PREFINISHED METAL ROOF RIDGE |
| 13.12 | PREFINISHED METAL SOFFIT TRIM |
| 26.02 | EXTERIOR LIGHT FIXTURE |

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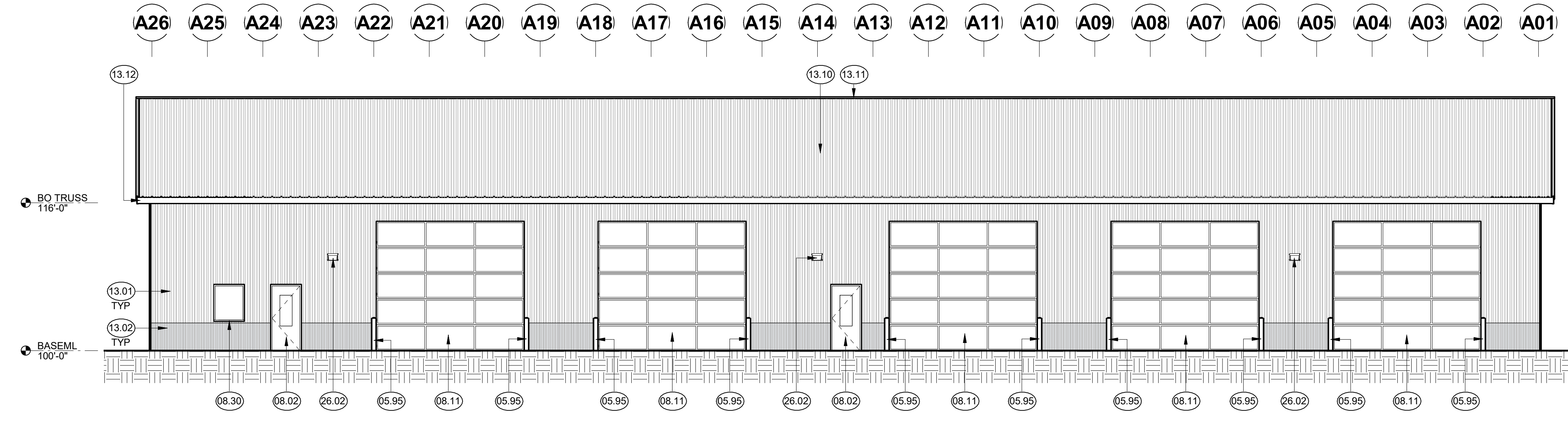
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Date: 2020.12.2x
Drawn: KLS
Check: JW

EXTERIOR ELEVATIONS & BUILDING SECTIONS

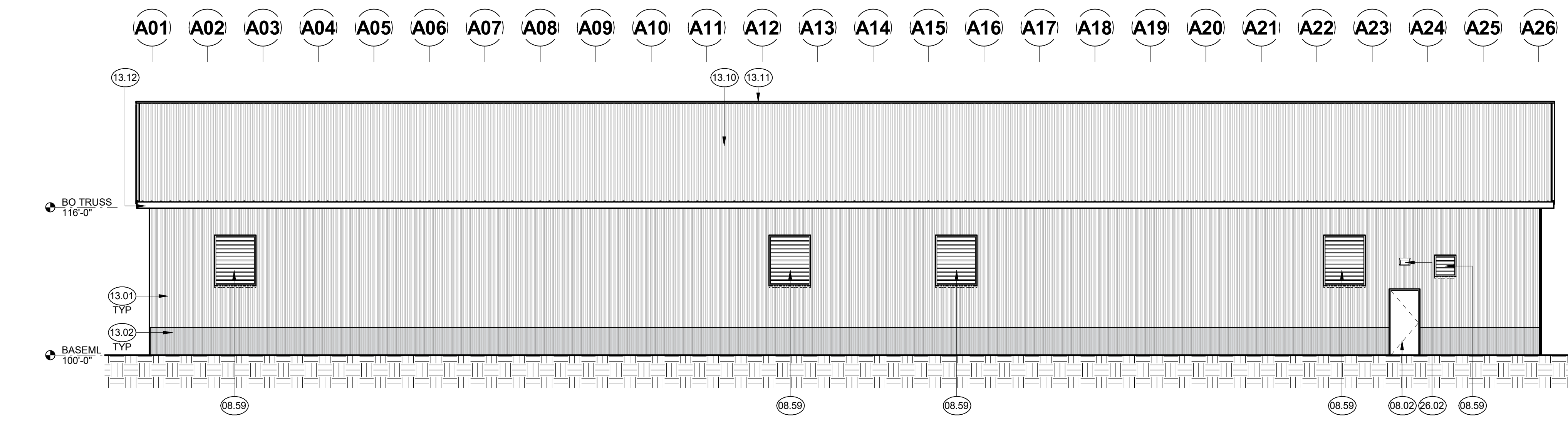
Scale: 1/8" = 1'-0"

A5.01

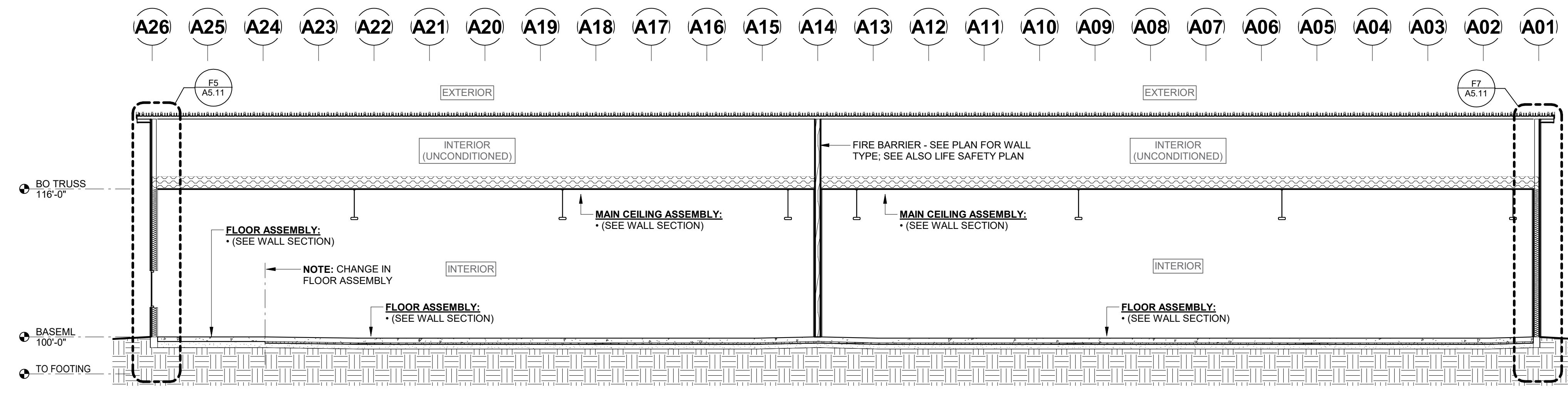
MN



B1 NORTH ELEVATION (SIDEWALL)
1/8" = 1'-0"
0 6 12

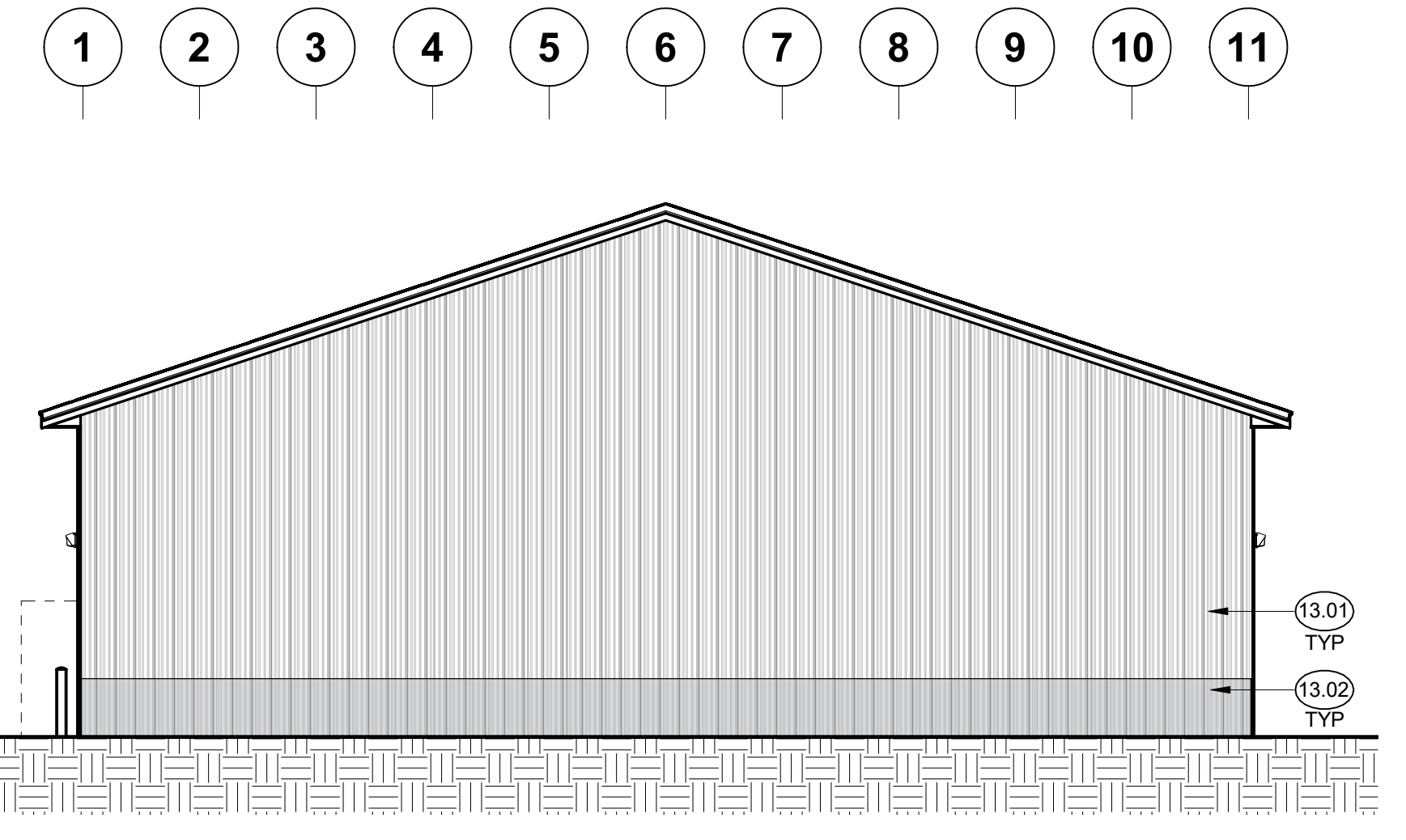


C1 SOUTH ELEVATION (SIDEWALL)
1/8" = 1'-0"
0 6 12

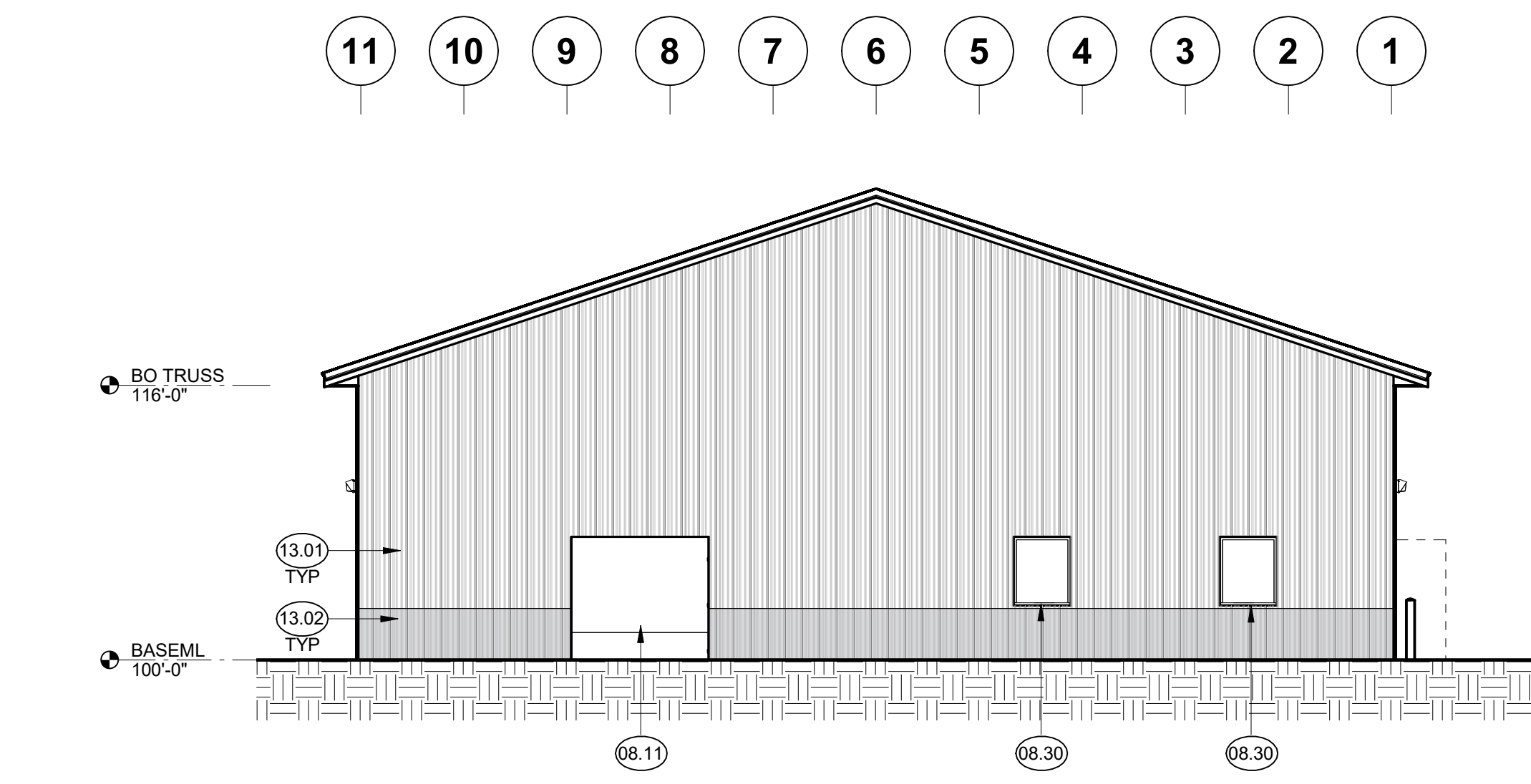


E1 BUILDING SECTION
1/8" = 1'-0"
0 6 12

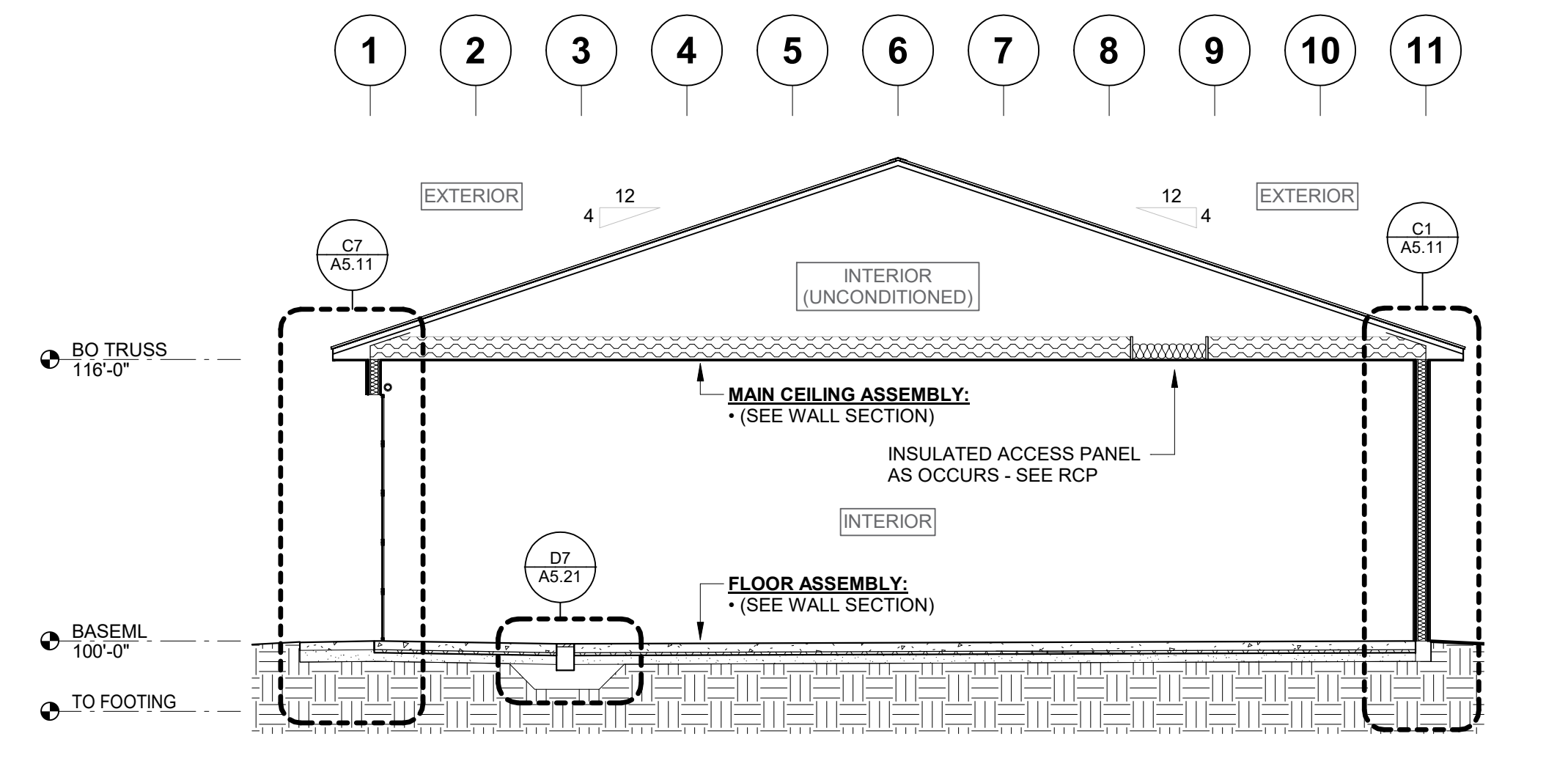
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B6 WEST ELEVATION (ENDWALL)
1/8" = 1'-0"
0 6 12

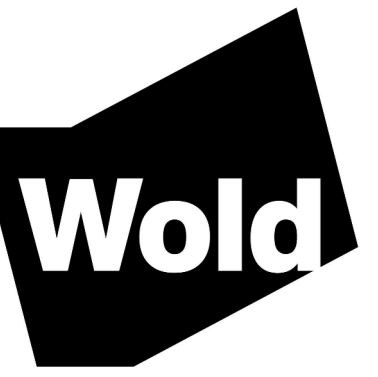


C6 EAST ELEVATION (ENDWALL)
1/8" = 1'-0"
0 6 12



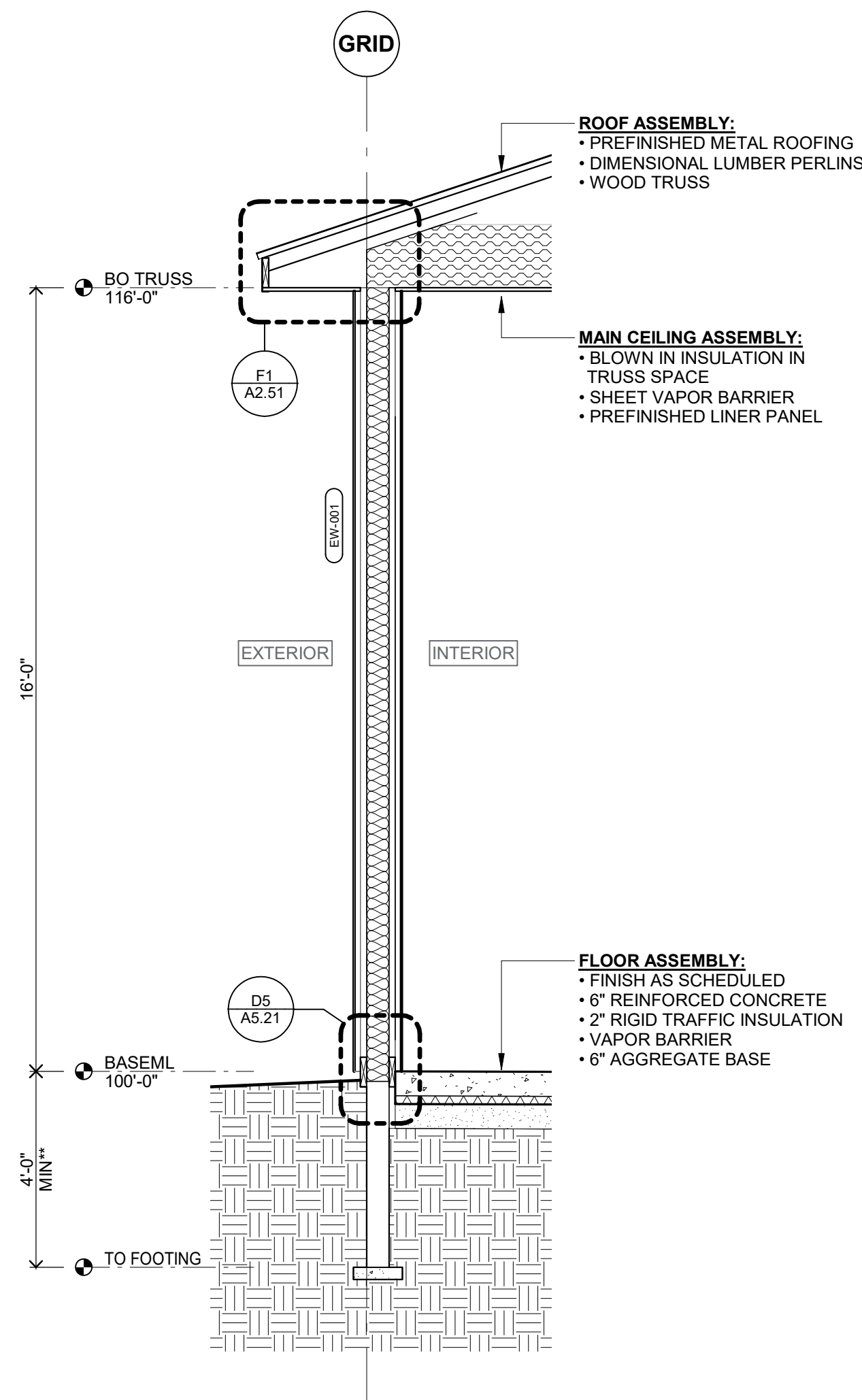
E6 BUILDING SECTION
1/8" = 1'-0"
0 6 12

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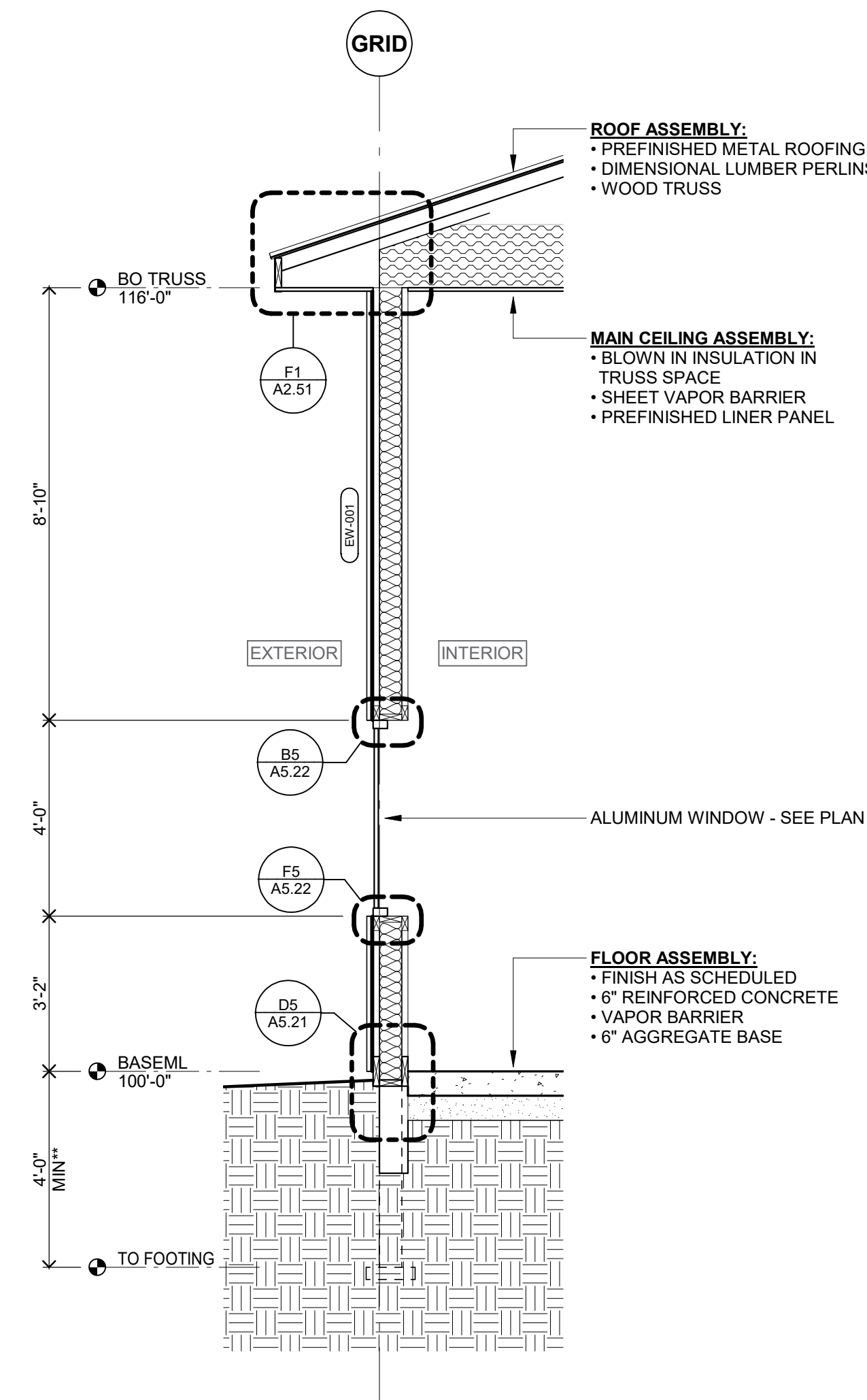


****NOTE: TOP OF FOOTING TO BE 4'-0" BELOW GRADE MINIMUM. BUILDING SYSTEM STRUCTURAL ENGINEER TO VERIFY DEPTH OF FOOTING REQUIRED**

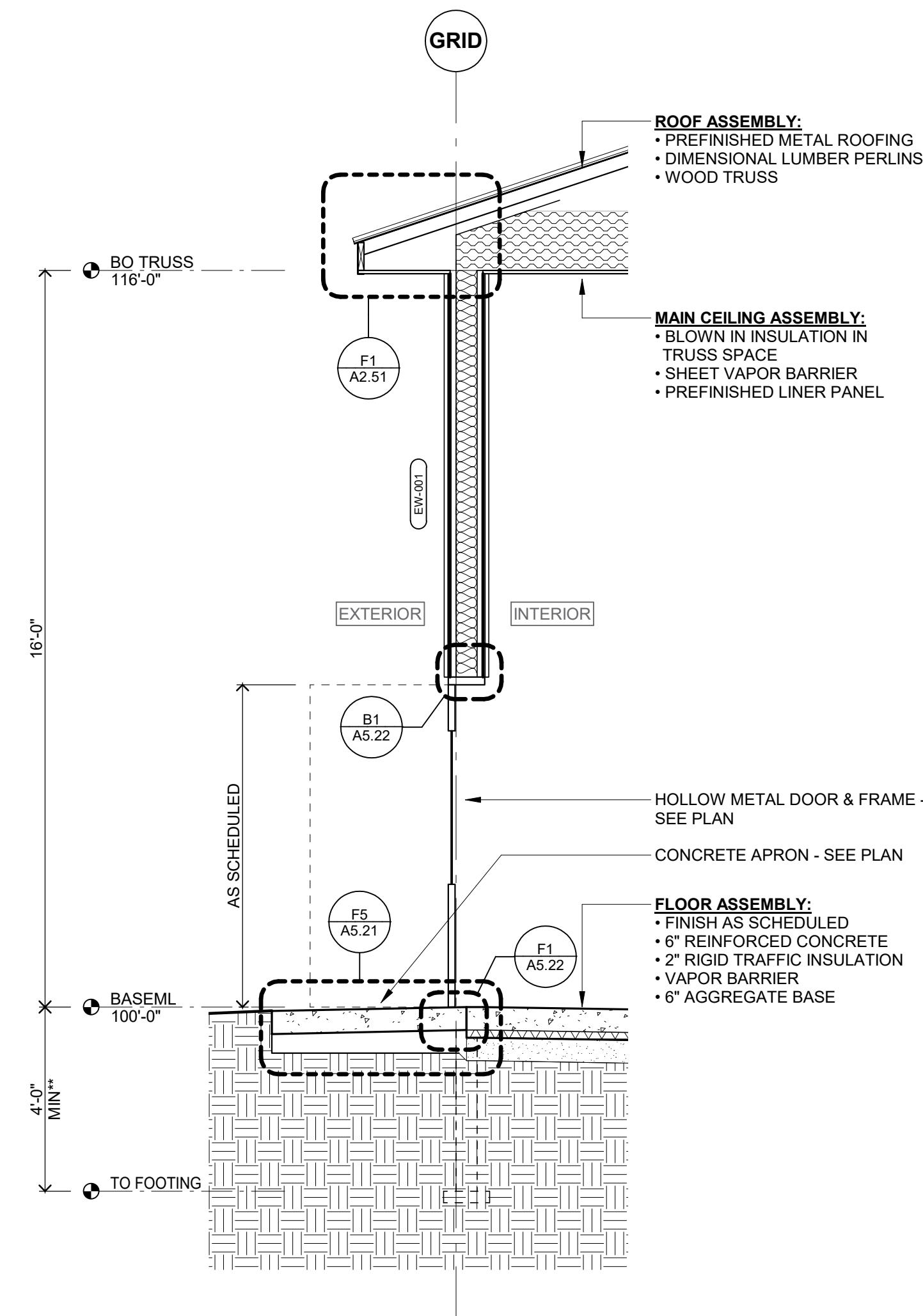
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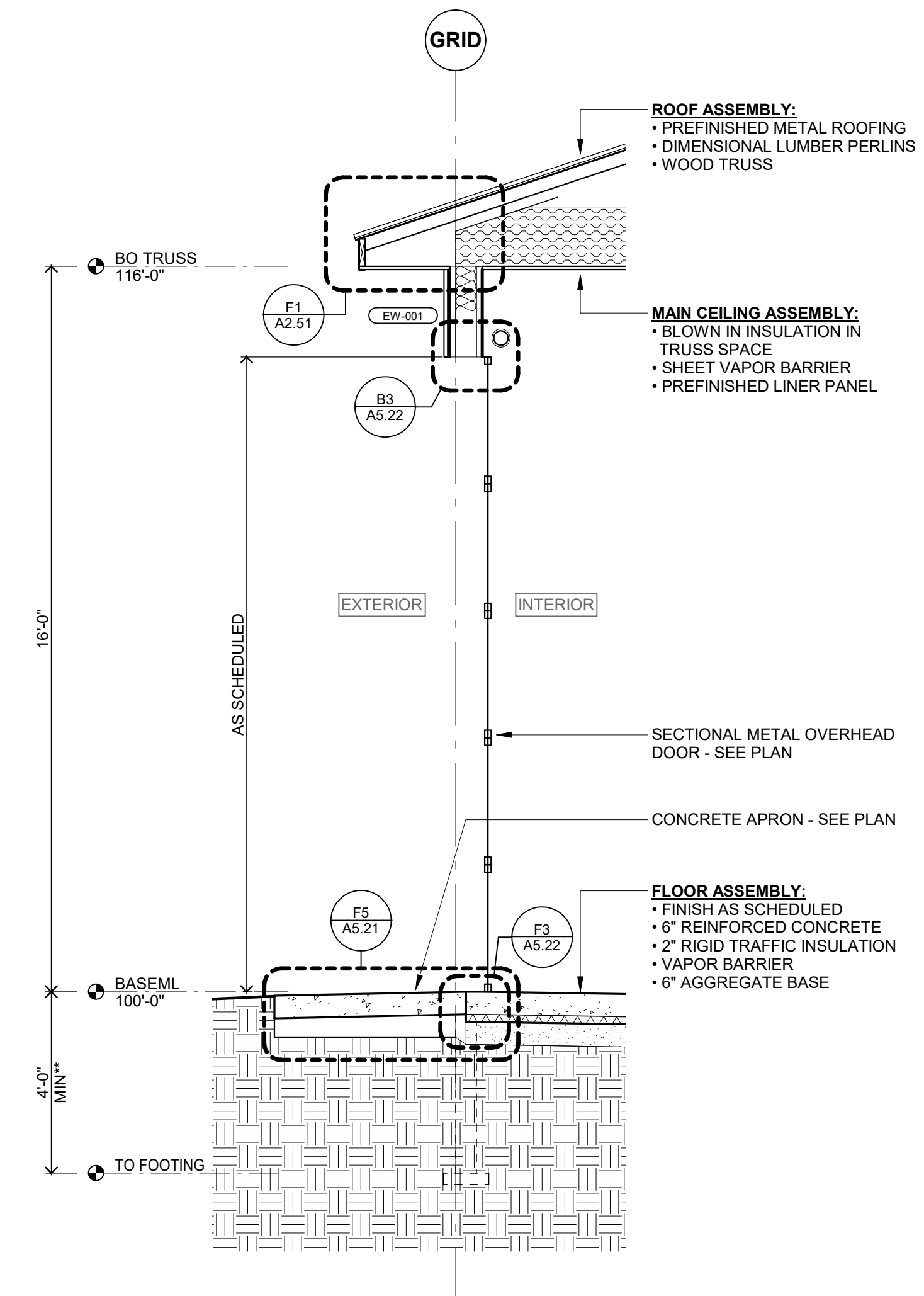
C1 WALL SECTION AT SIDEWALL
3/8" = 1'-0"



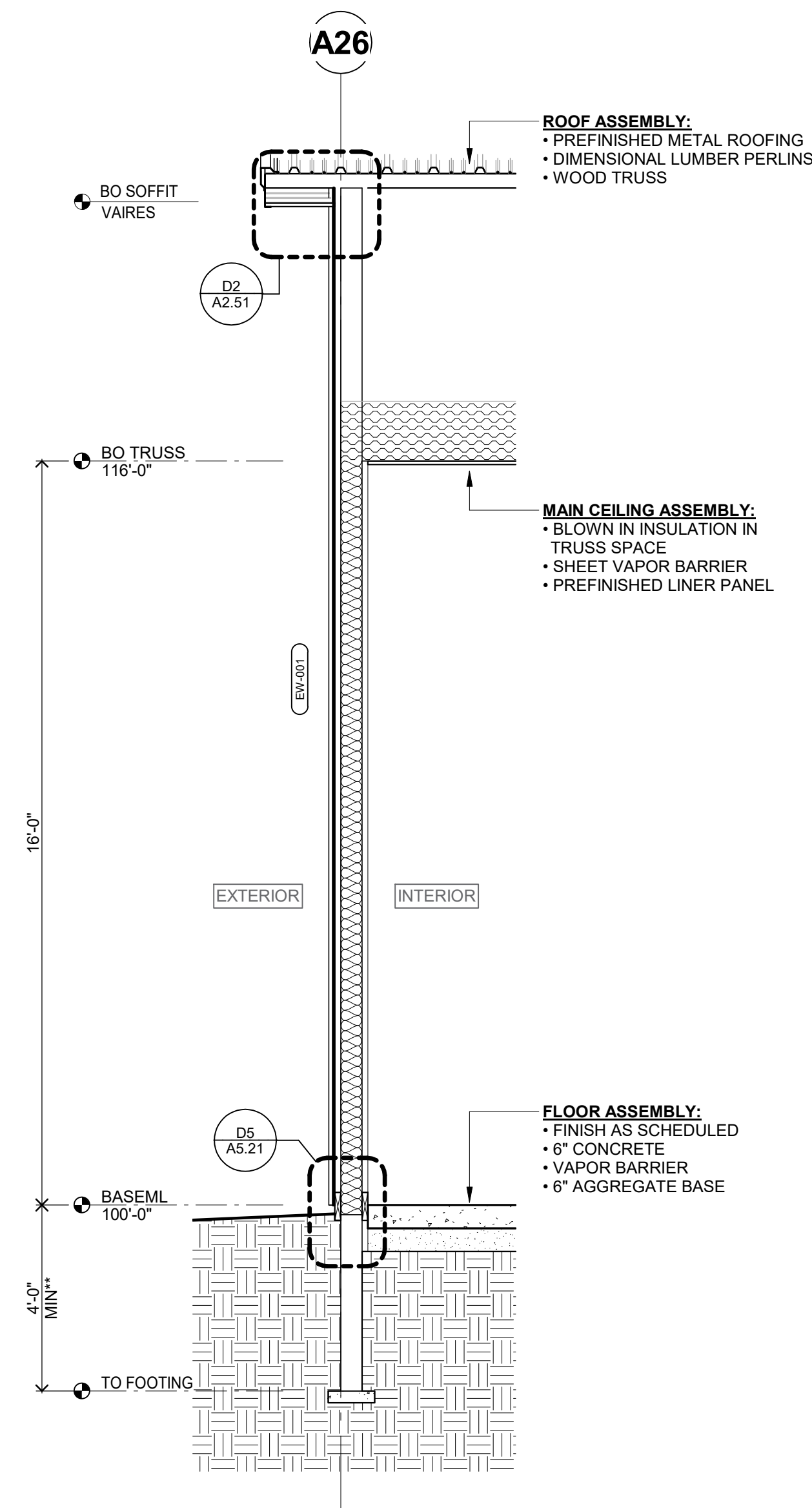
C3 WALL SECTION AT WINDOW
3/8" = 1'-0"



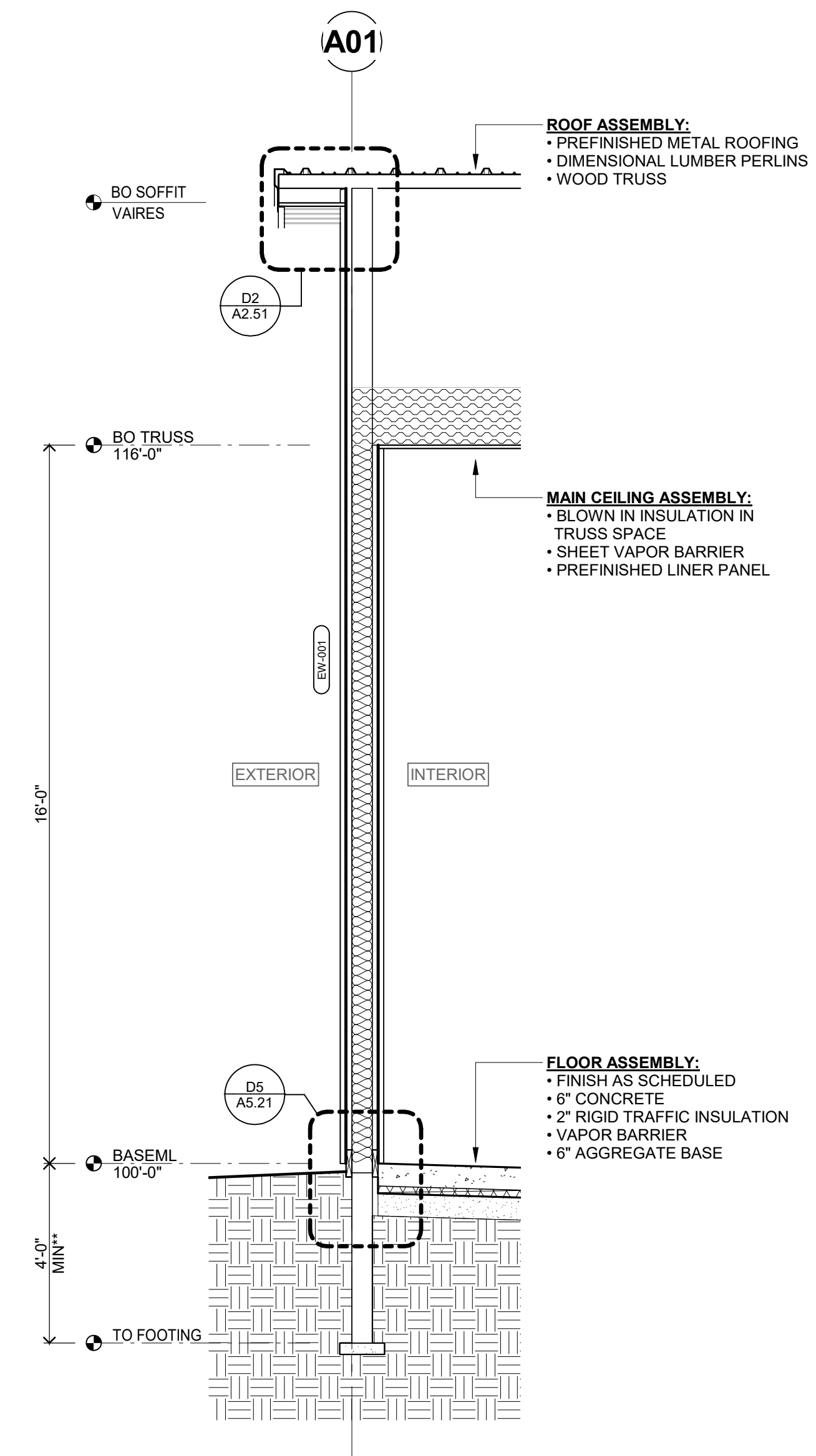
C5 WALL SECTION AT HM DOOR
3/8" = 1'-0"



C7 WALL SECTION AT OH DOOR
3/8" = 1'-0"



F5 SECTION AT ENDWALL (EAST)
3/8" = 1'-0"



F7 SECTION AT ENDWALL (WEST)
3/8" = 1'-0"

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JOEL DUNNING
License Number: 41467 Date: 2020.12.2x

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Check: JW

WALL SECTIONS

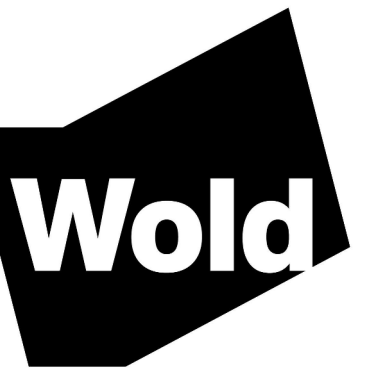
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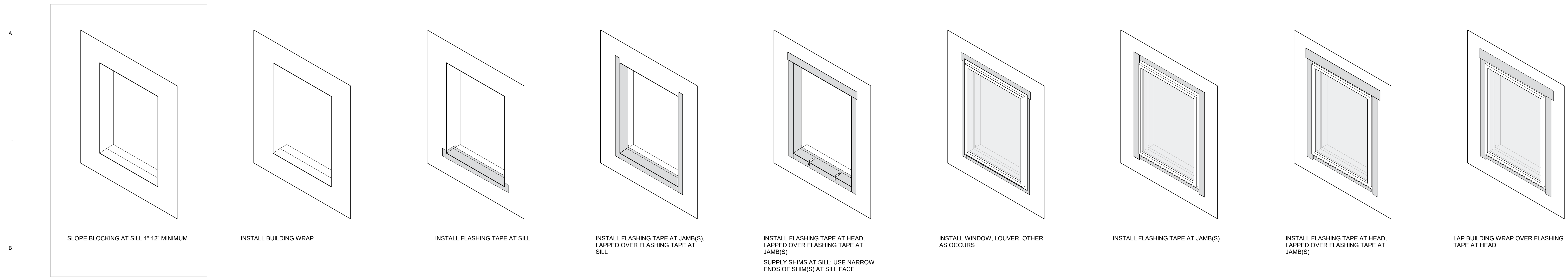
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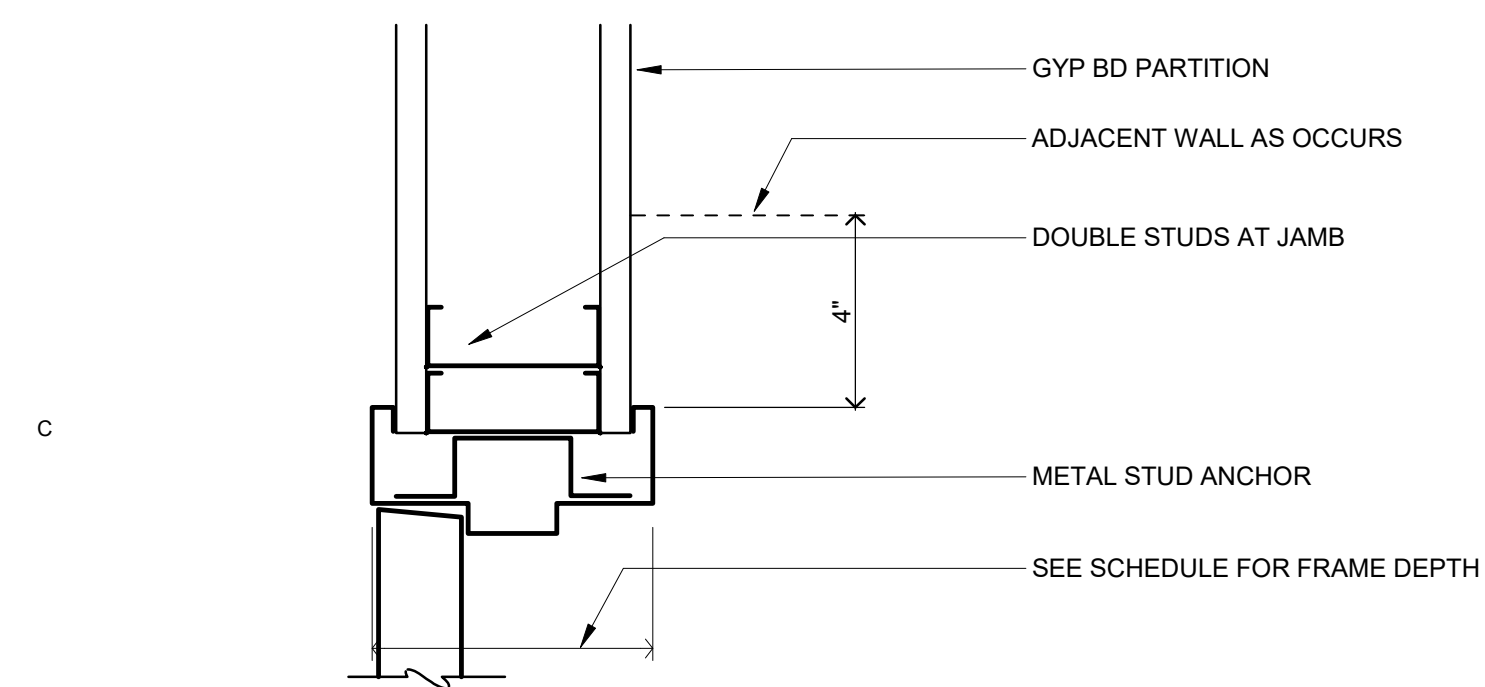
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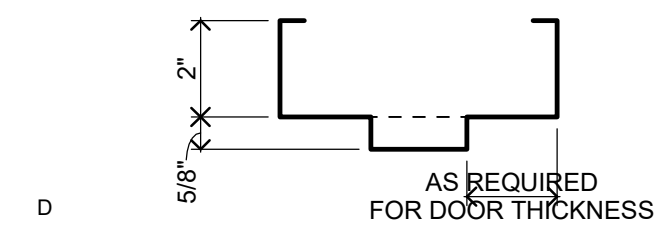


B1 TYPICAL OPENING FLASHING SEQUENCE
NOT TO SCALE

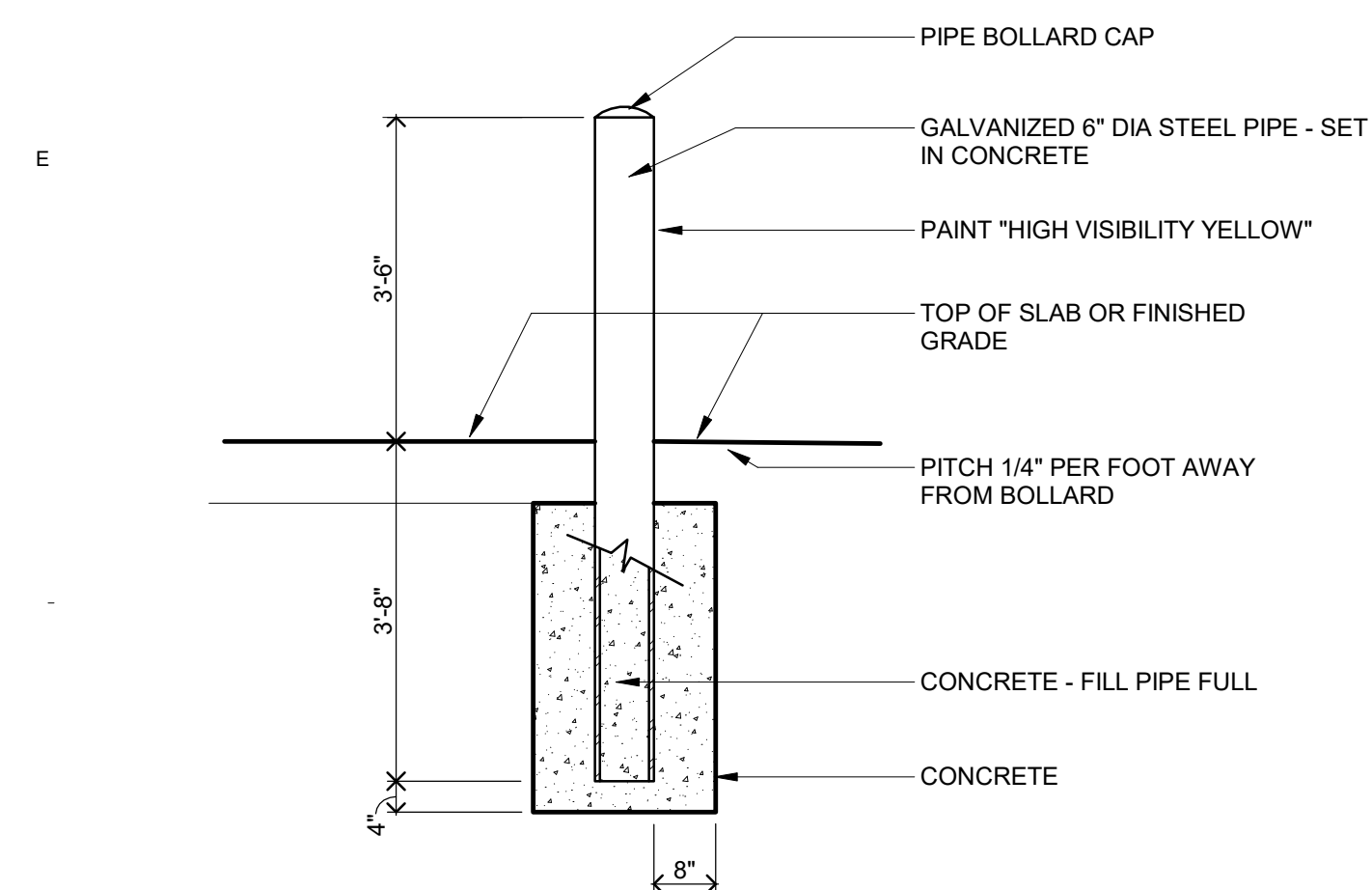


C1 JAMB (HEAD & SILL AT BORROWED LITE, SIMILAR)
3" = 1'-0"

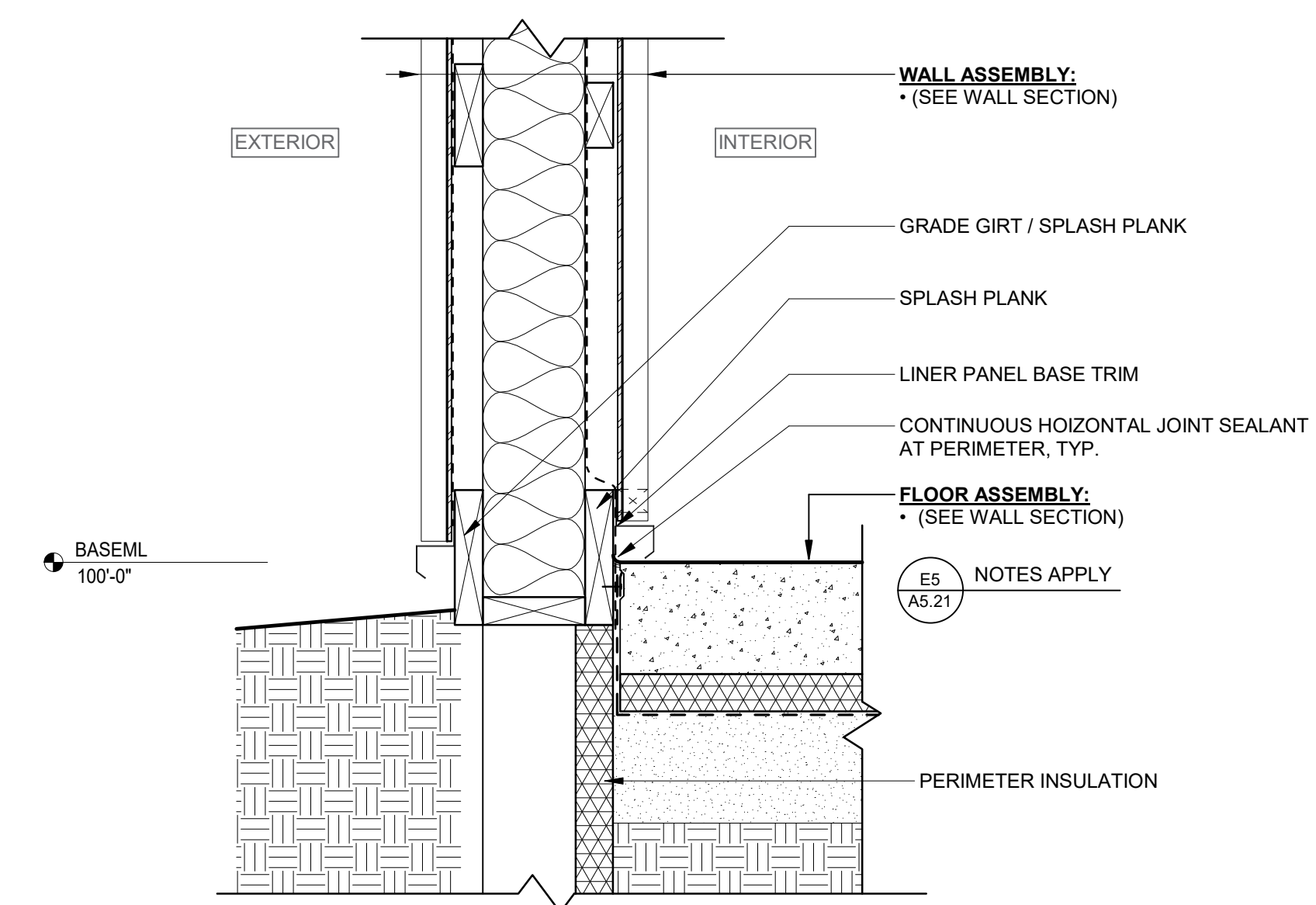
NOTE: SEE DOOR SCHEDULE NOTES FOR DOOR THICKNESS.



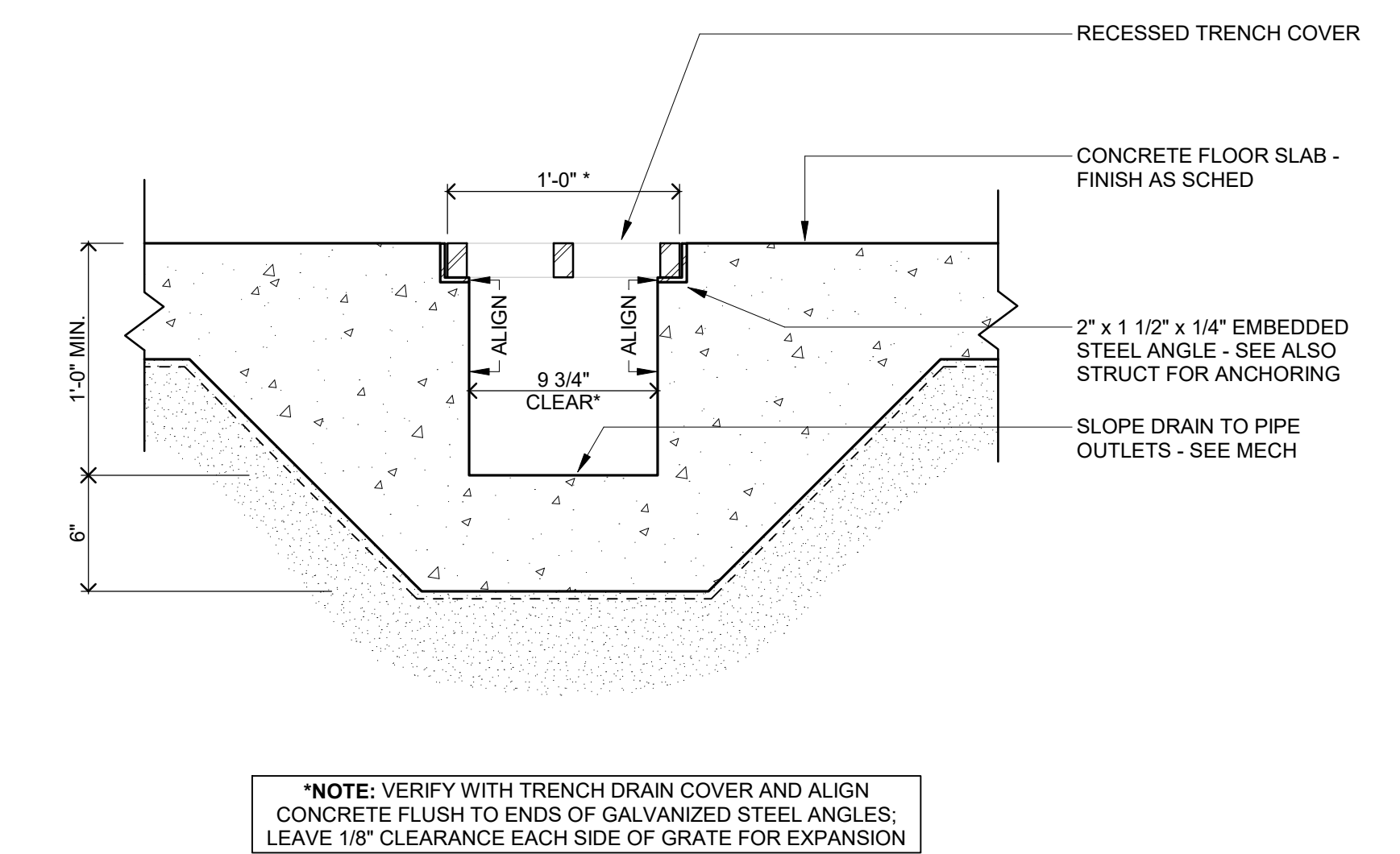
D1 HEAD/JAMB AT DOOR
3" = 1'-0"



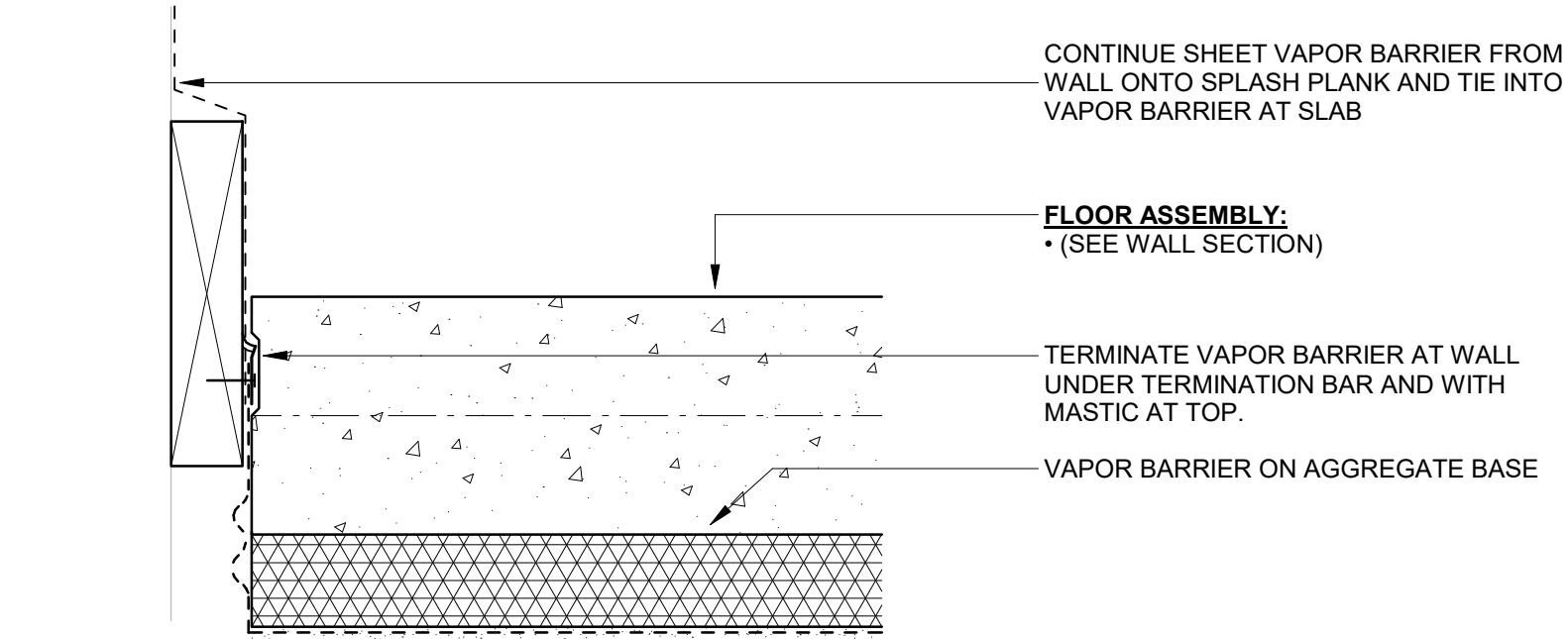
F1 BOLLARD DETAIL
1/2" = 1'-0"



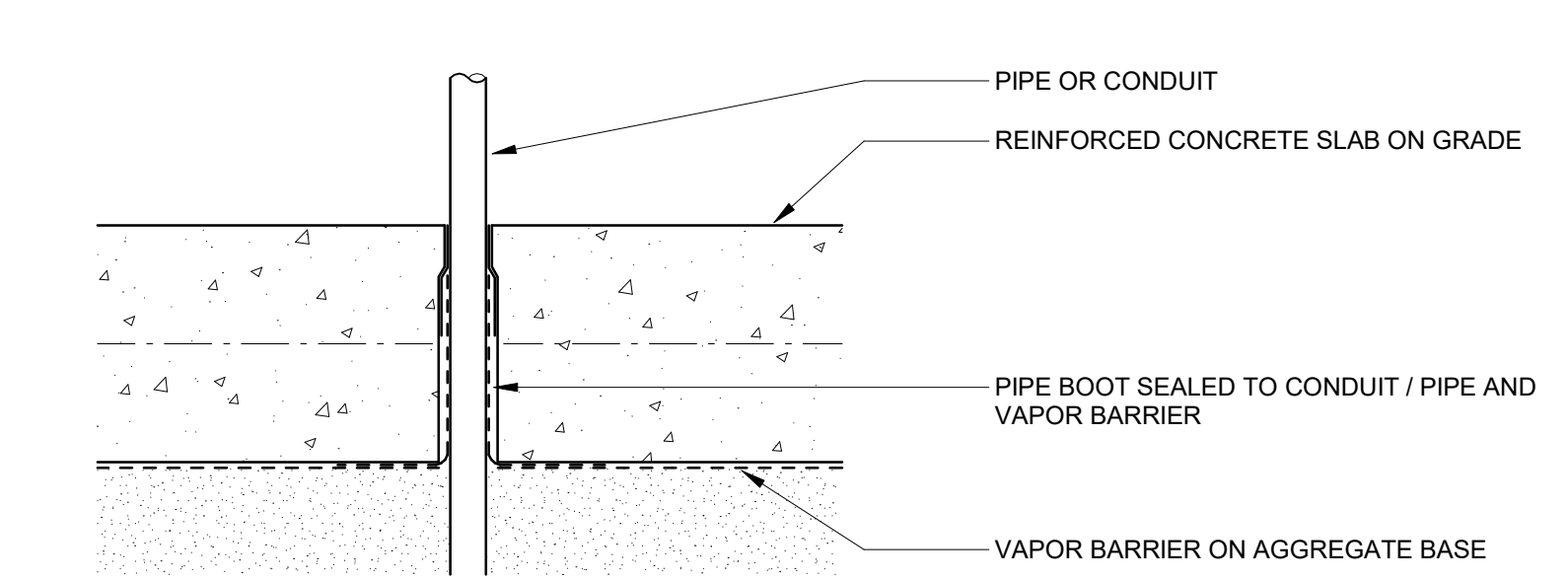
D5 BASE OF WALL DETAIL
1 1/2" = 1'-0"



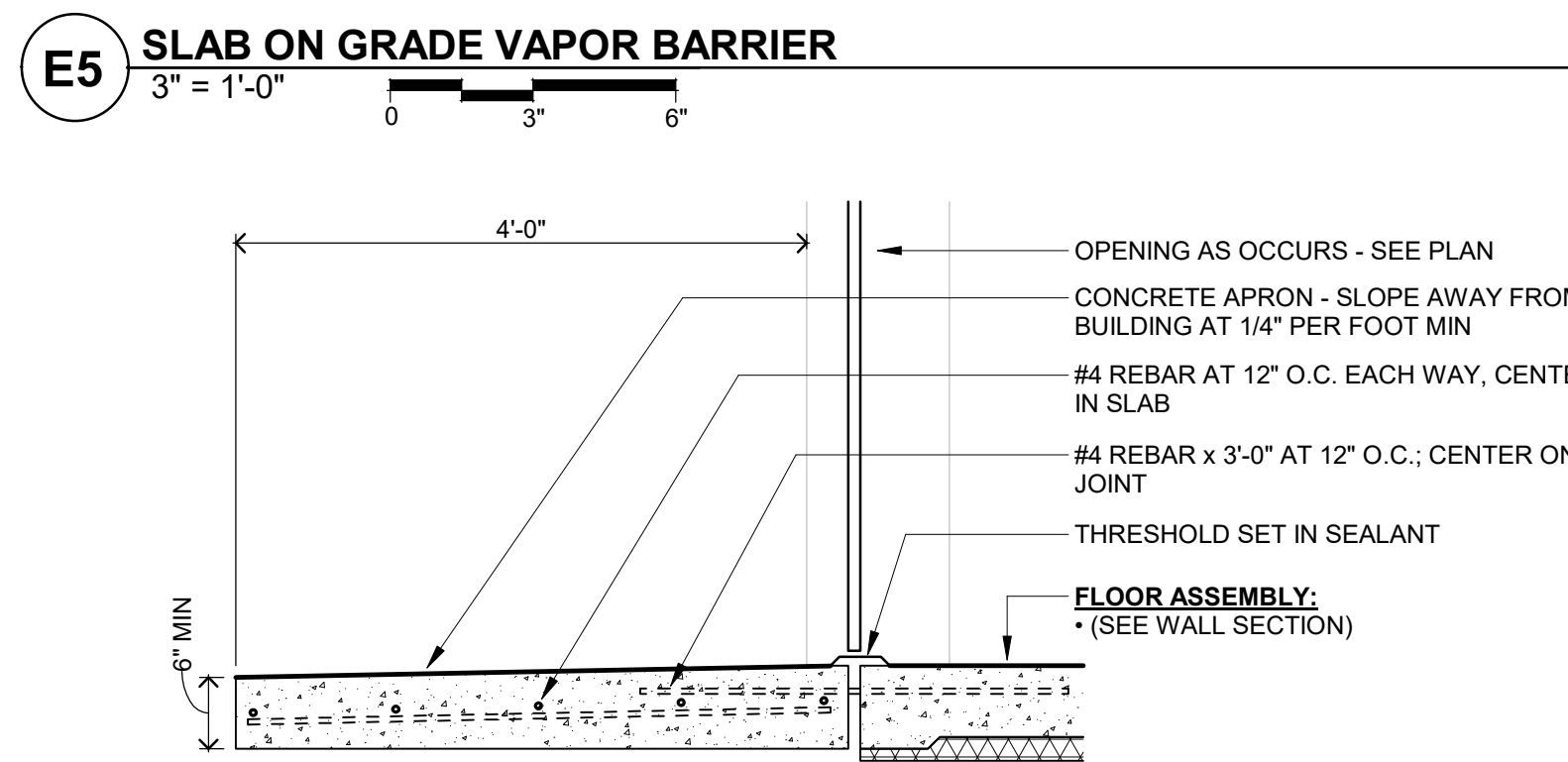
D7 SECTION AT TRENCH DRAIN
1 1/2" = 1'-0"



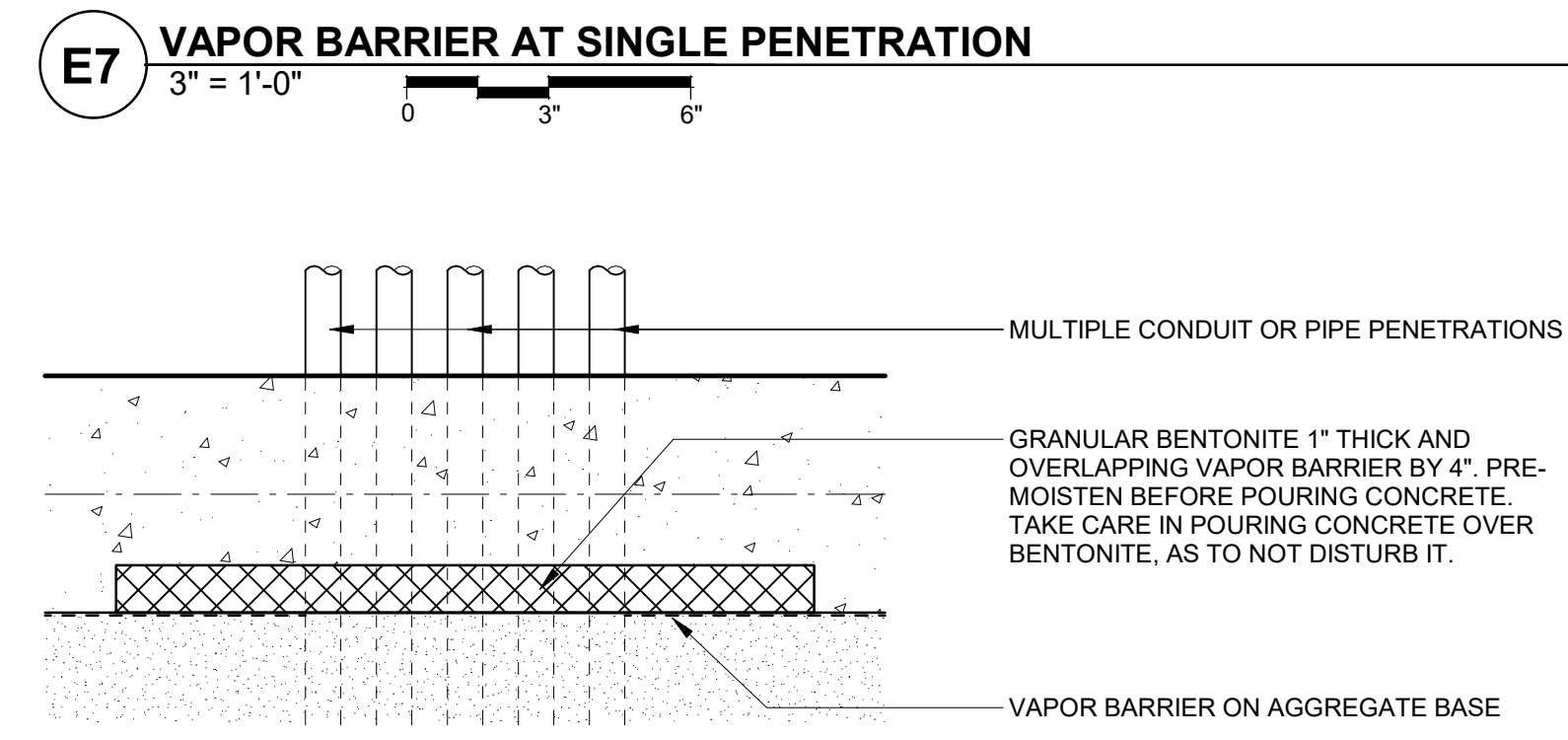
E5 SLAB ON GRADE VAPOR BARRIER
3" = 1'-0"



E7 VAPOR BARRIER AT SINGLE PENETRATION
3" = 1'-0"



F5 SECTION AT CONCRETE APRON - TYPICAL
3/4" = 1'-0"



F7 VAPOR BARRIER AT MULTIPLE PENETRATIONS
3" = 1'-0"

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JOEL DUNNING
License Number: 41467 Date: 2020.12.2x

| Description | Revisions | |
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Date: 2020.12.2x
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DETAILS

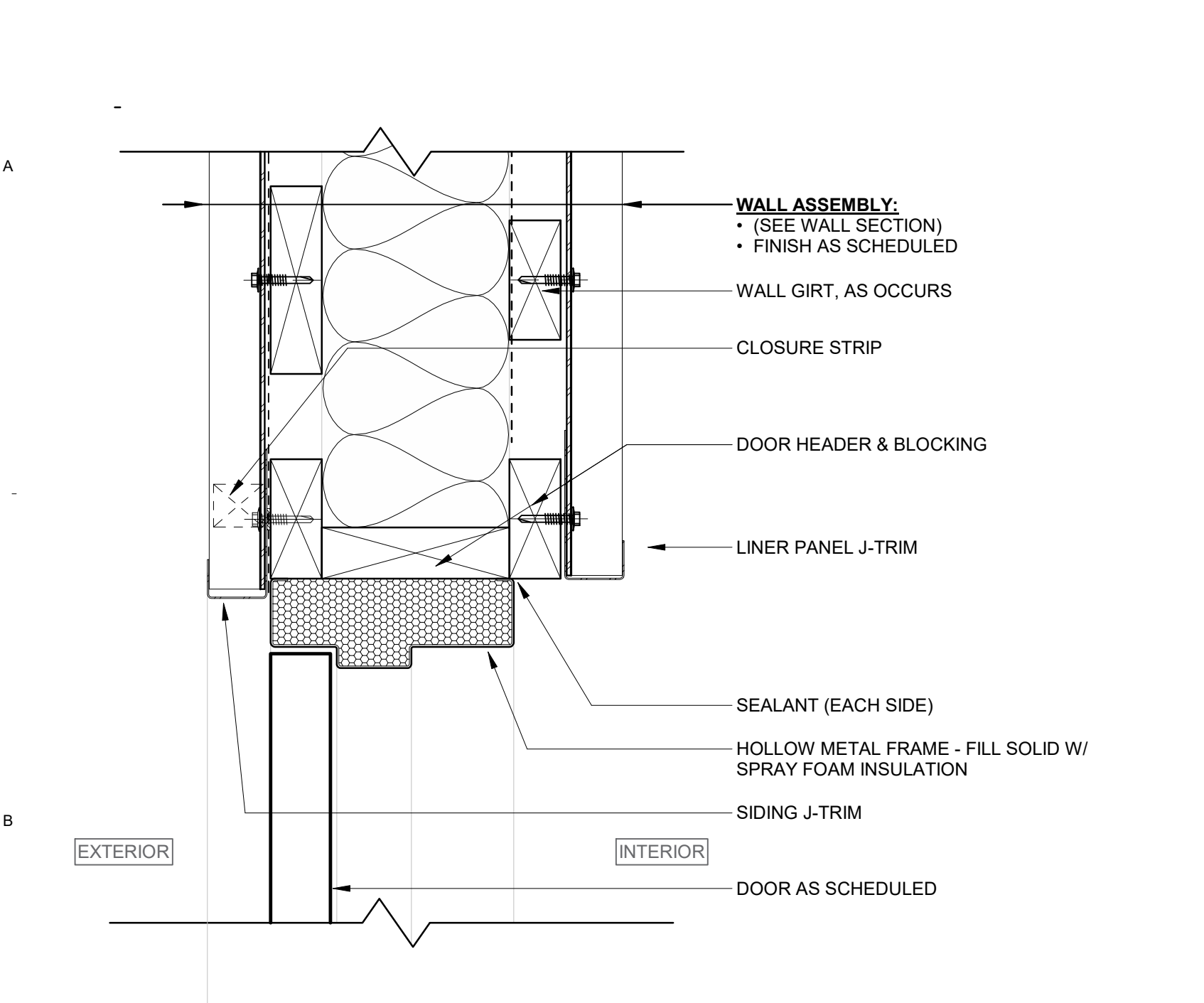
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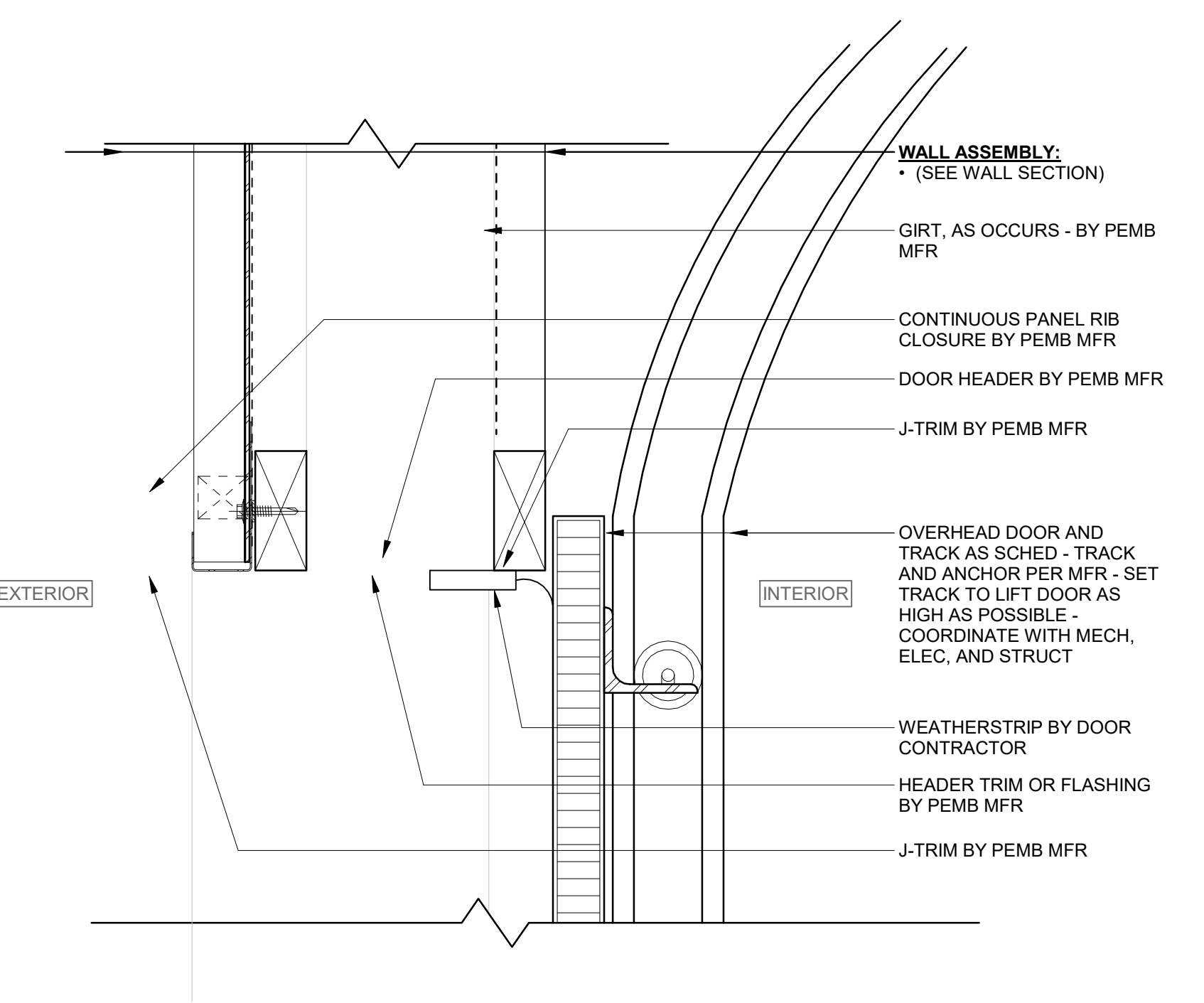
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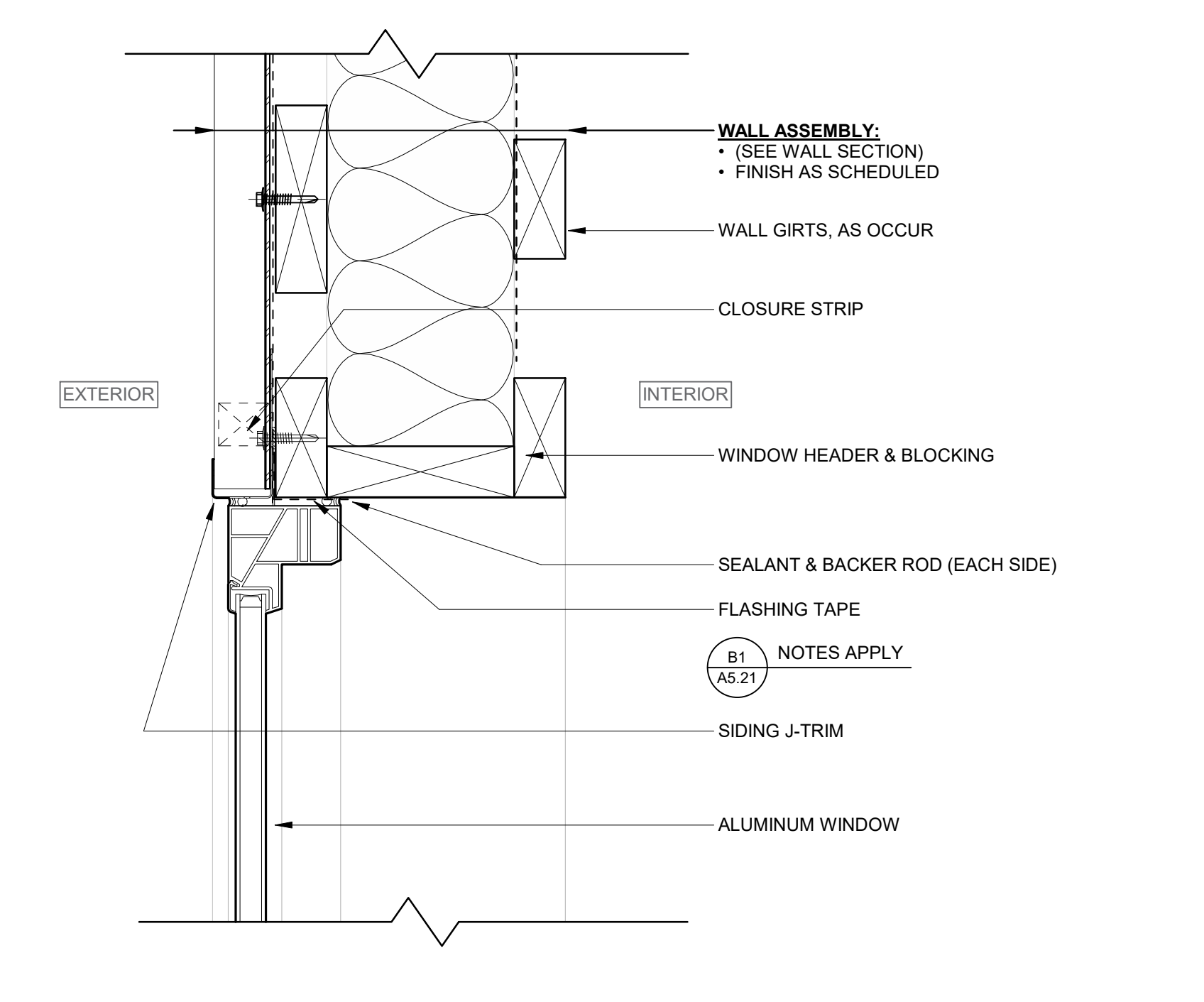
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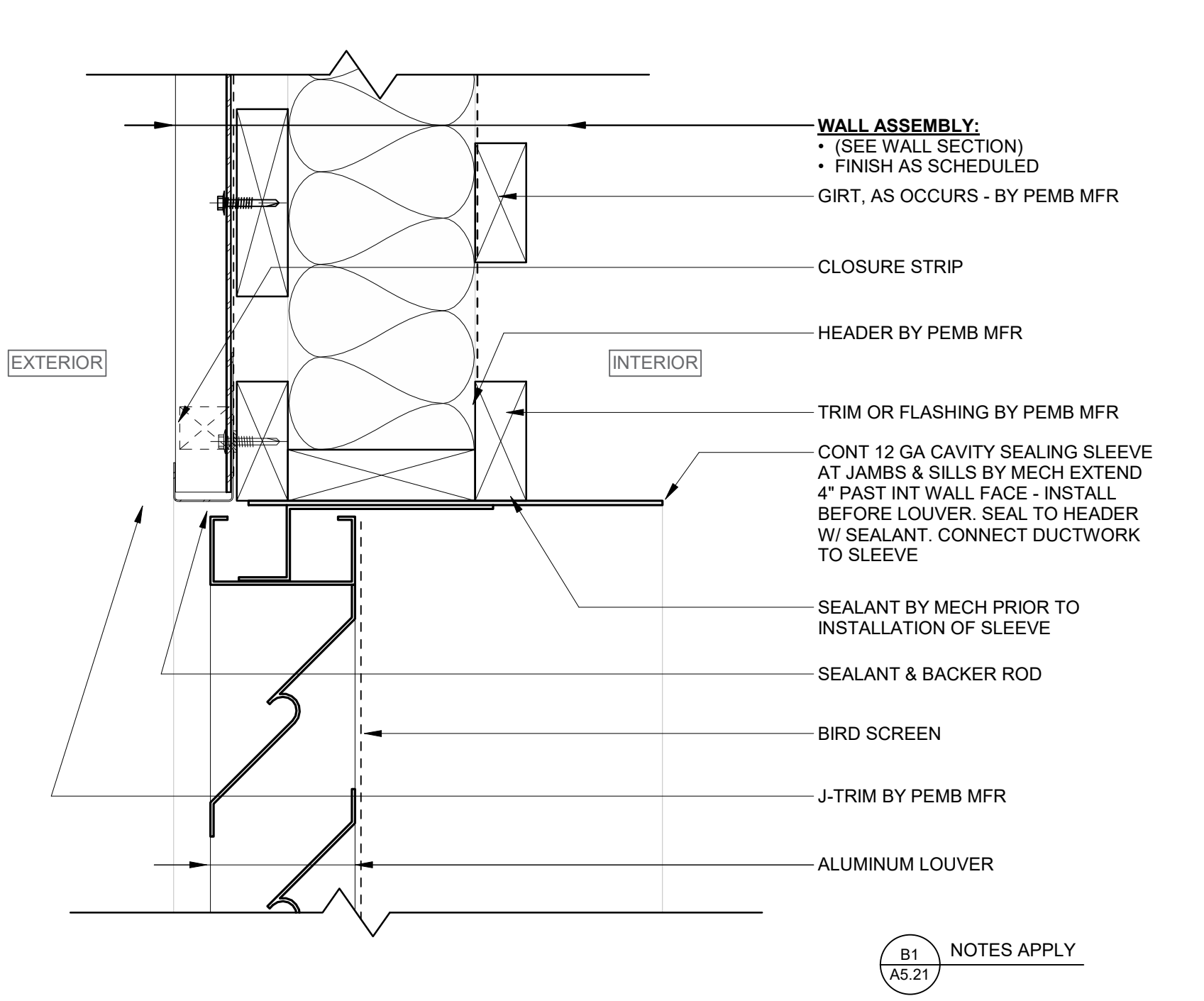
B1 HEAD AT EXTERIOR HM FRAME
3" = 1'-0"
0 3 6



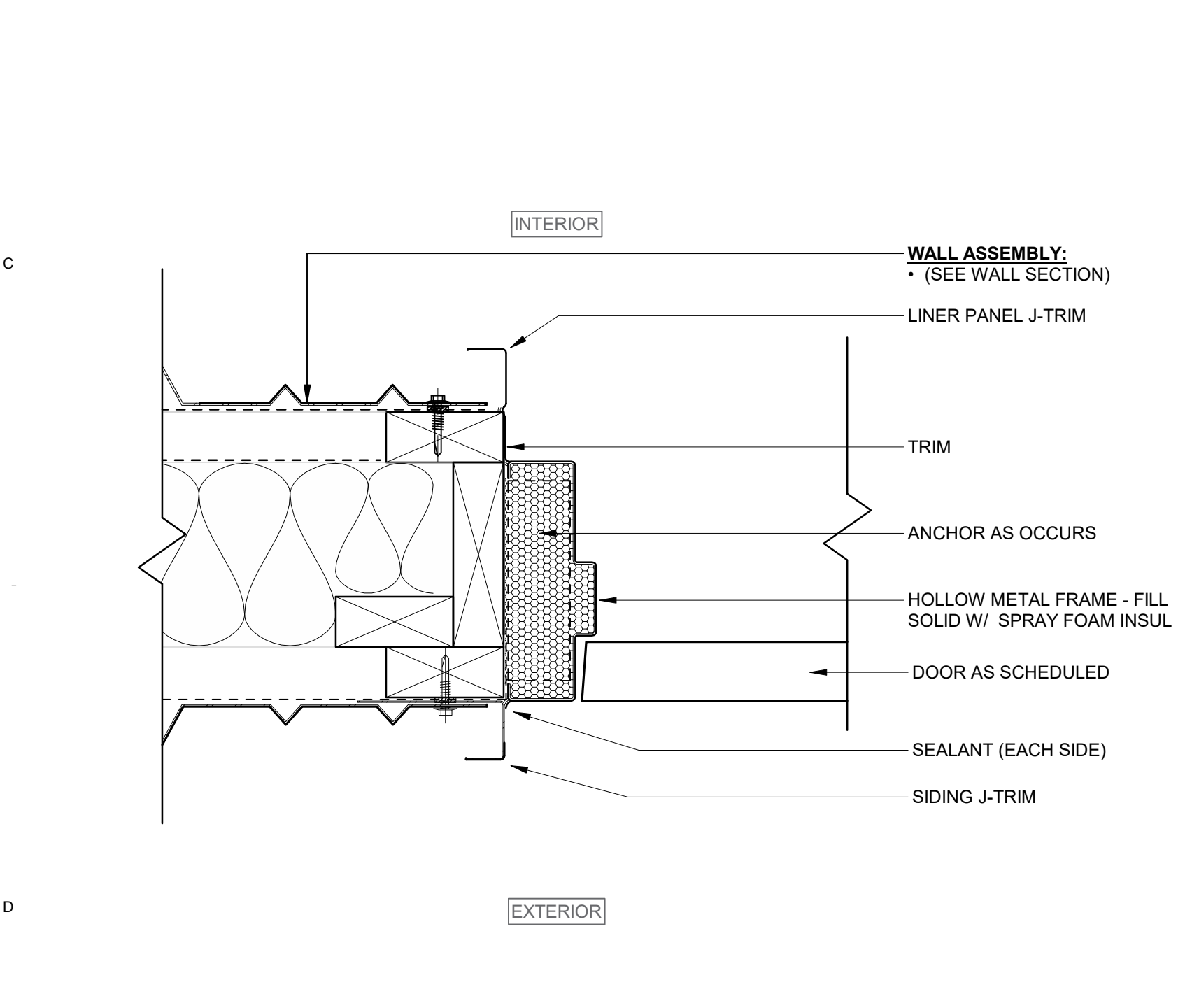
B3 HEAD AT EXTERIOR OH DOOR
3" = 1'-0"
0 3 6



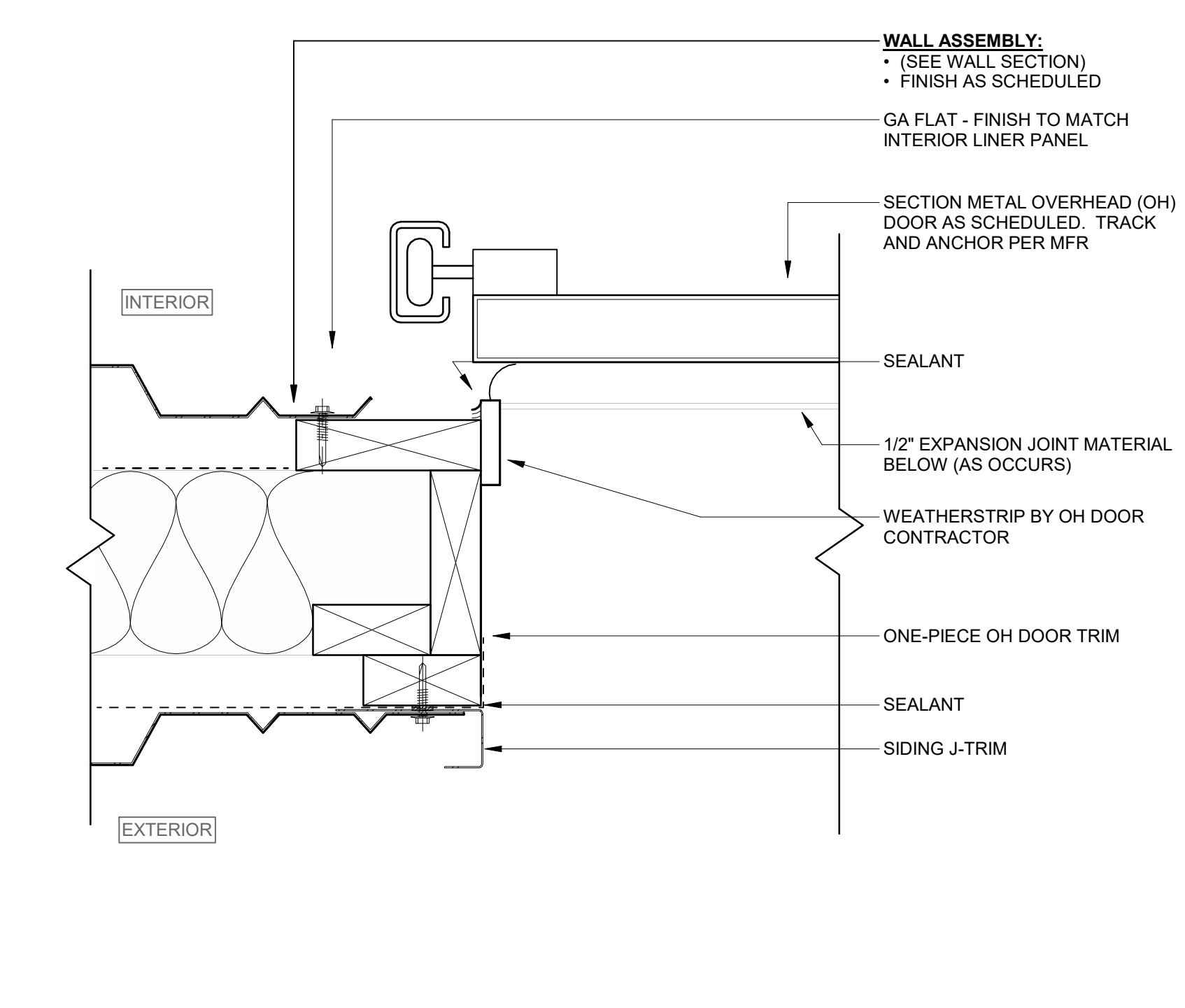
B5 HEAD AT EXTERIOR WINDOW
3" = 1'-0"
0 3 6



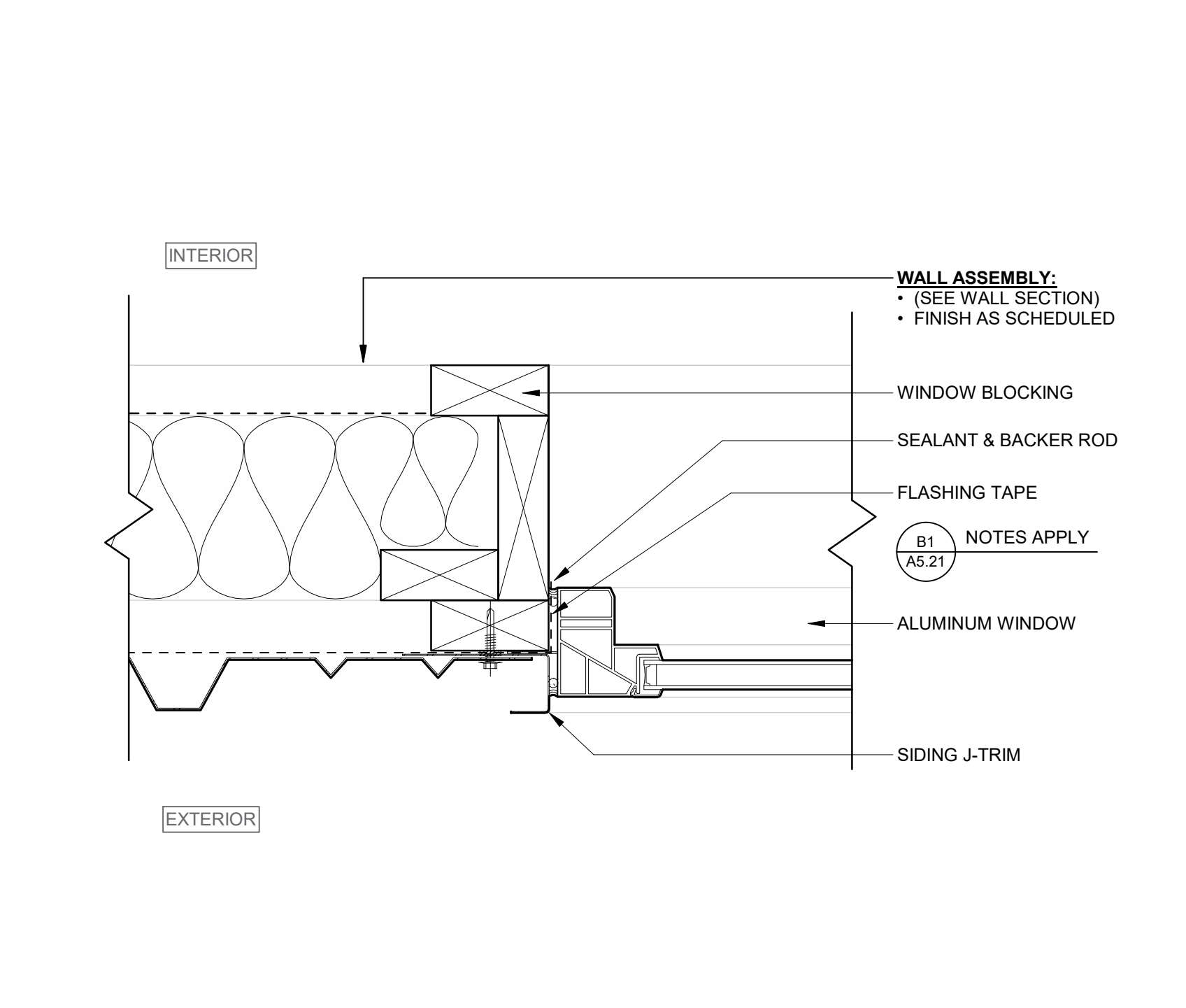
B7 HEAD AT EXTERIOR LOUVER
3" = 1'-0"
0 3 6



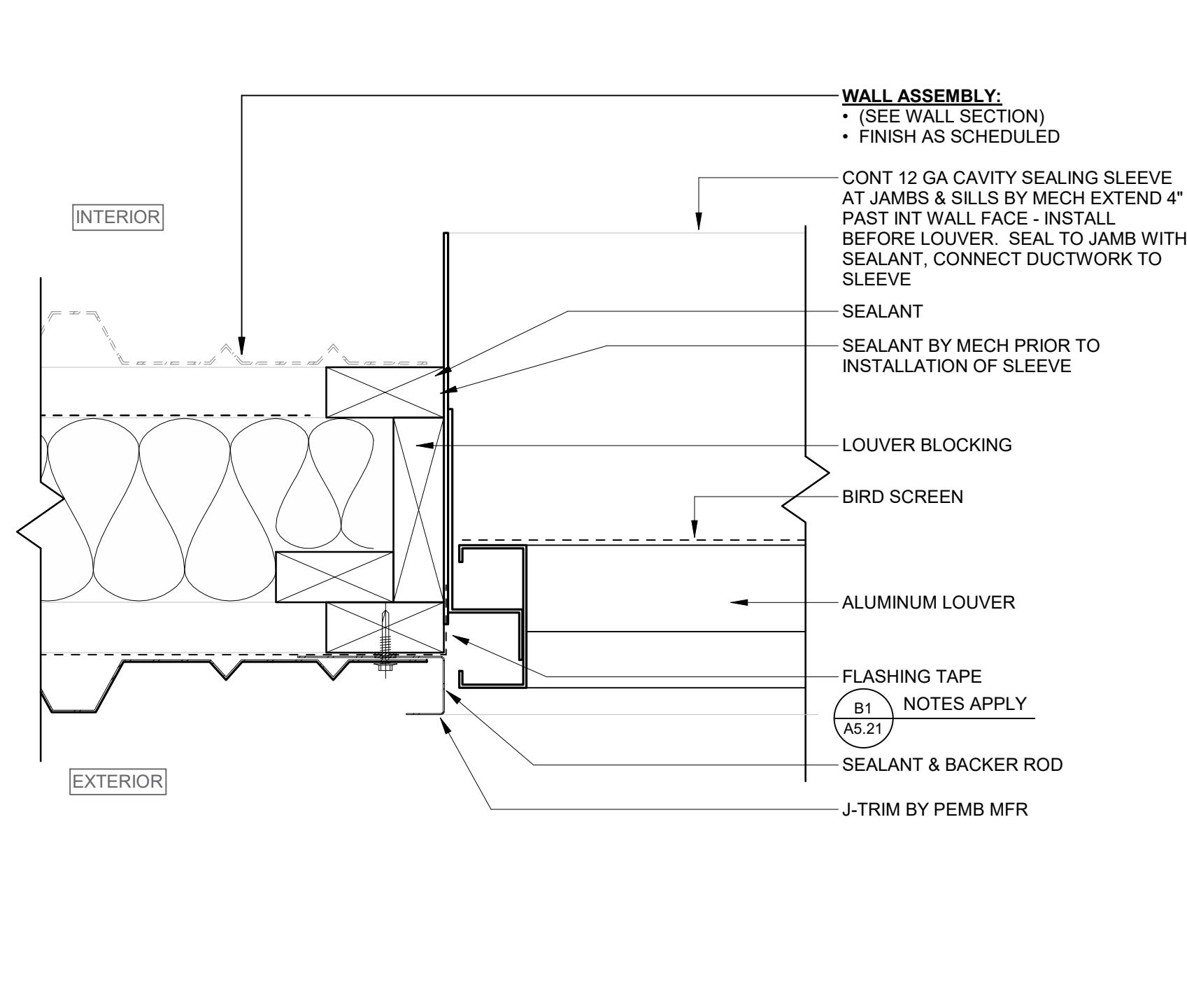
D1 JAMB AT EXTERIOR HM FRAME
3" = 1'-0"
0 3 6



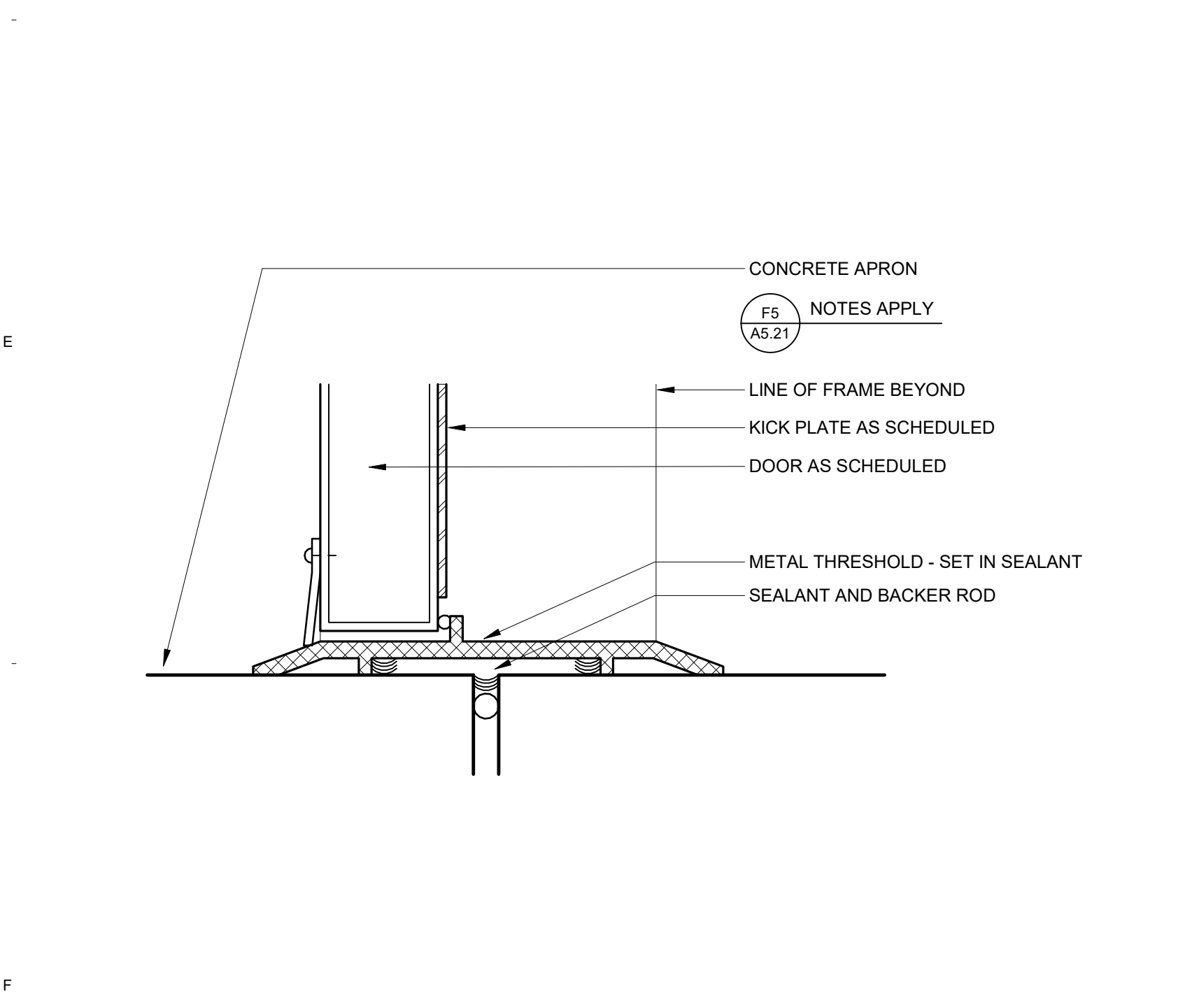
D3 JAMB AT EXTERIOR OH DOOR
3" = 1'-0"
0 3 6



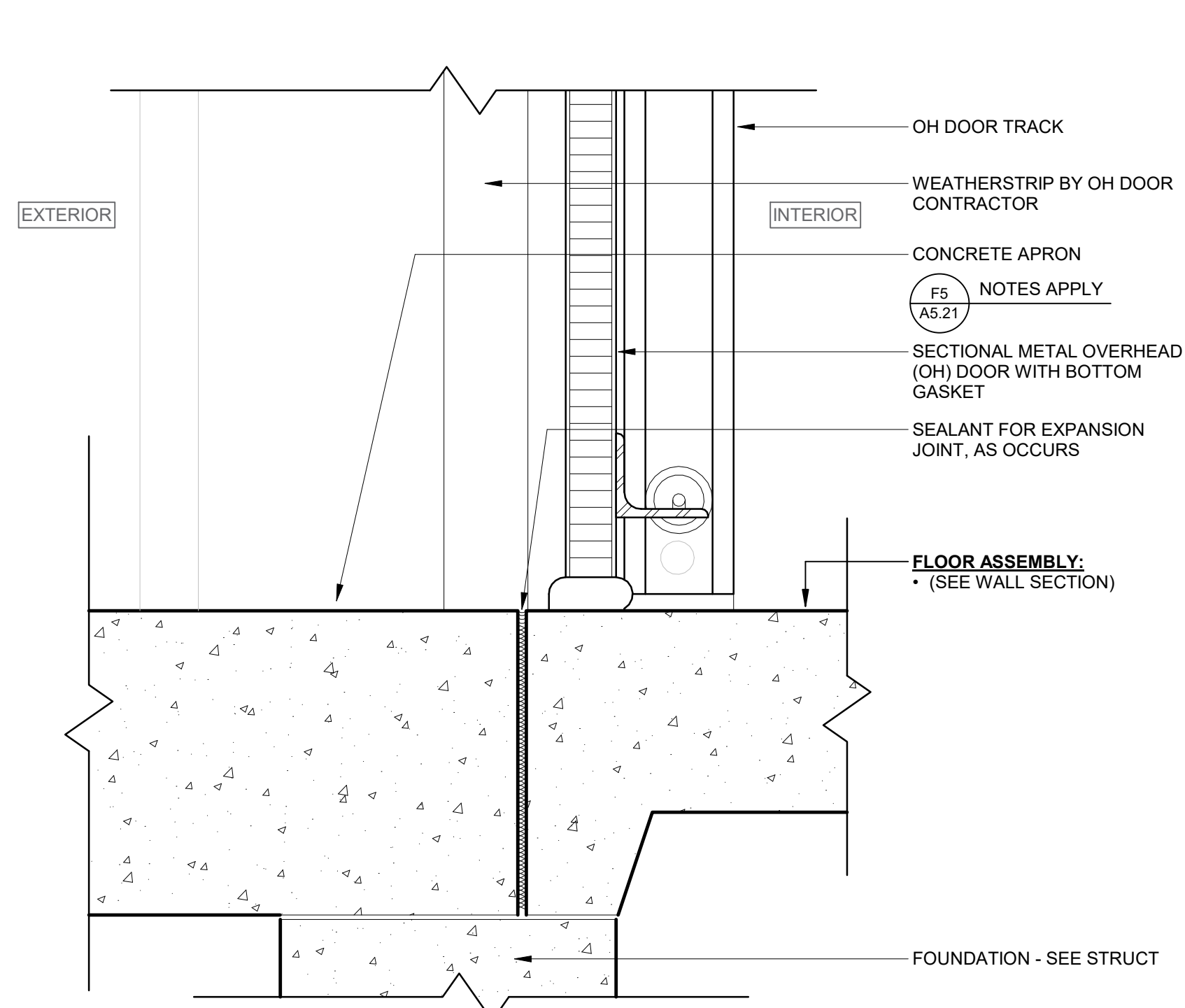
D5 JAMB AT EXTERIOR WINDOW
3" = 1'-0"
0 3 6



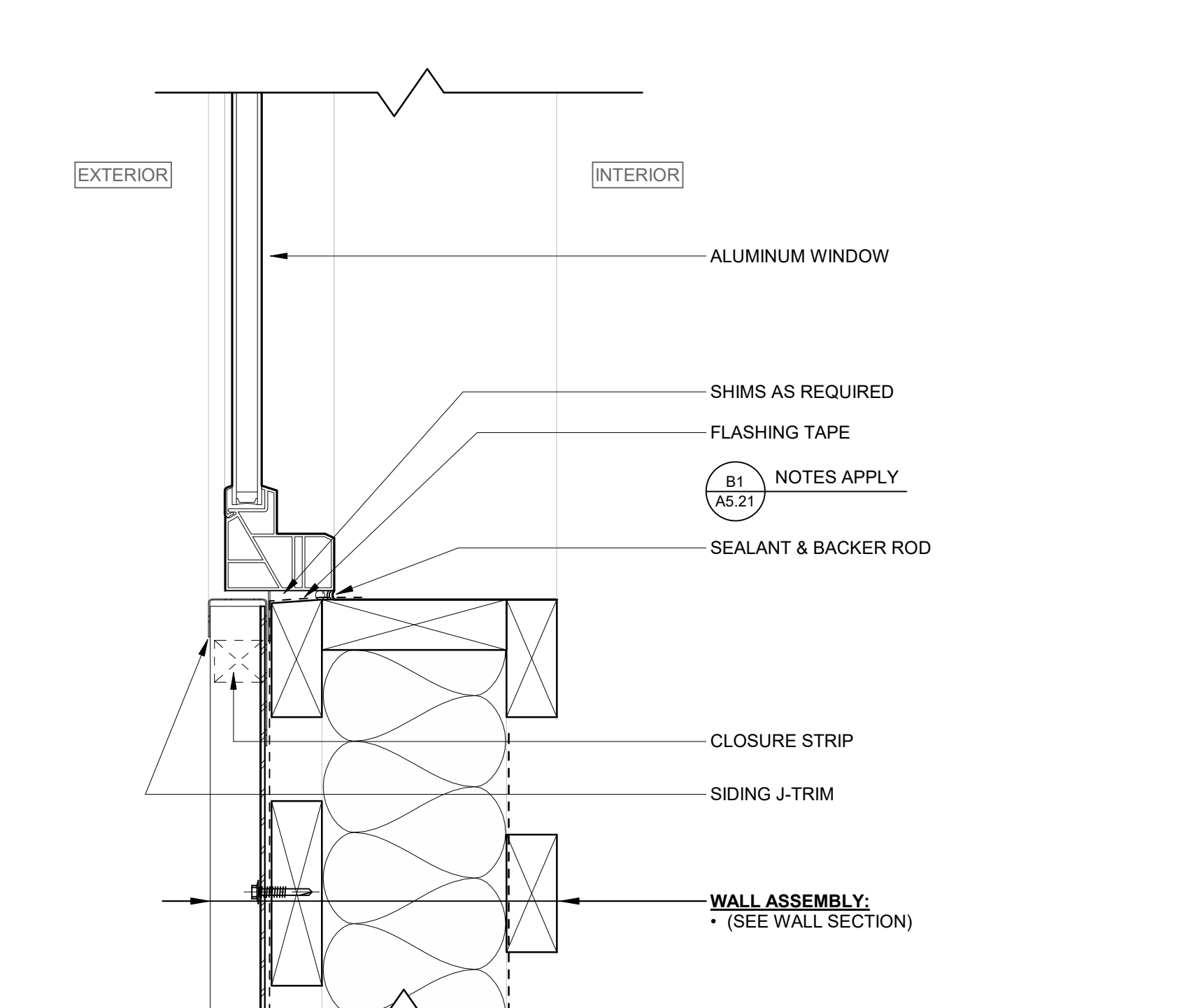
D7 JAMB AT EXTERIOR LOUVER
3" = 1'-0"
0 3 6



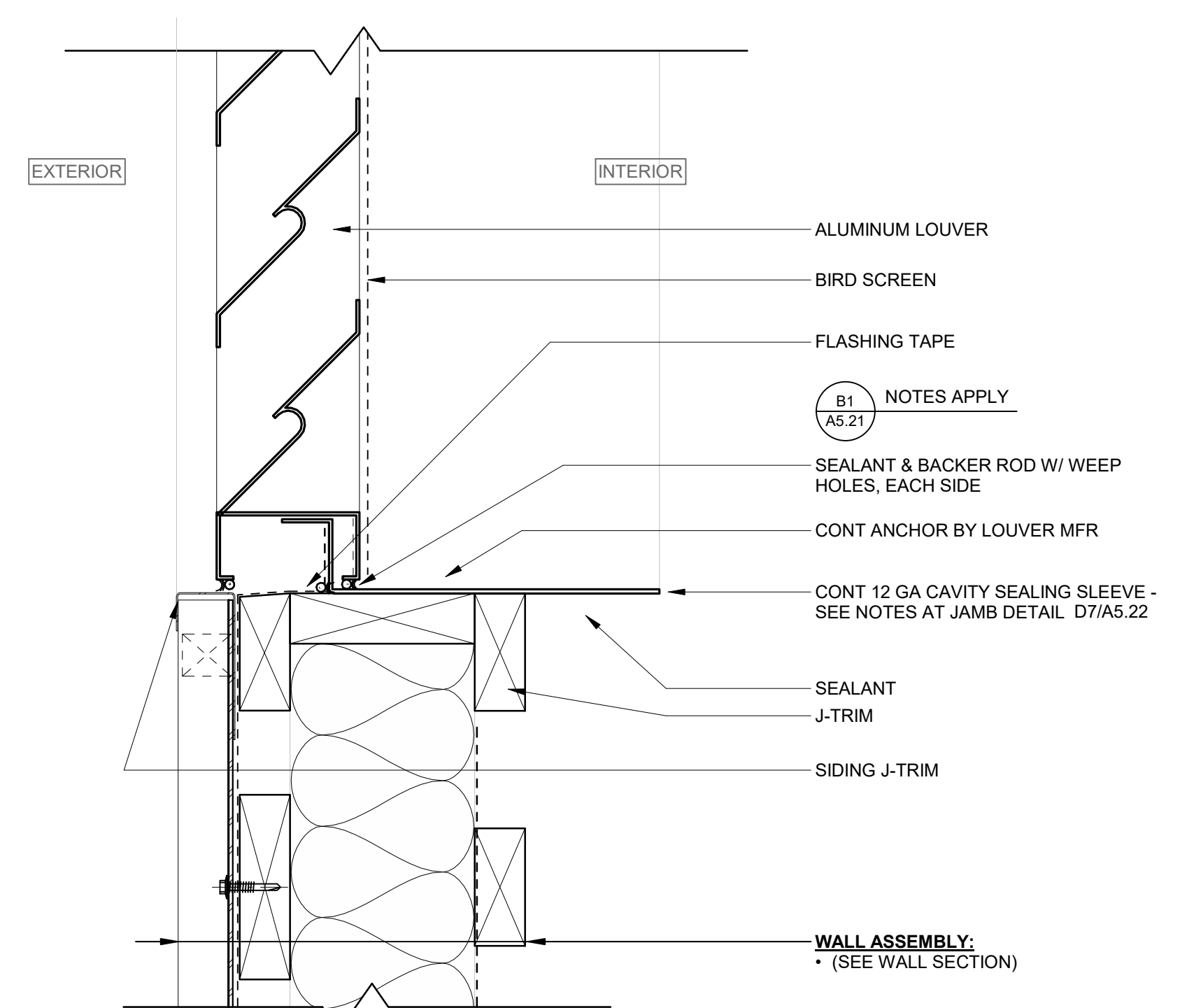
F1 THRESHOLD AT EXTERIOR PERSONNEL DOOR
6" = 1'-0"
0 1.5 3



F3 SILL AT EXTERIOR OH DOOR
3" = 1'-0"
0 3 6



F5 SILL AT EXTERIOR WINDOW
3" = 1'-0"
0 3 6



F7 SILL AT EXTERIOR LOUVER
3" = 1'-0"
0 3 6

I hereby certify that this plan, specification or report was prepared by me or under my direct supervision and that I am a duly Licensed ARCHITECT under the laws of the State of MINNESOTA

JOEL DUNNING
License Number: 41467 Date: 2020.12.2x

| Description | Revisions | |
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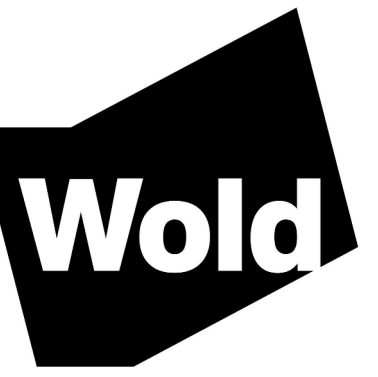
Comm: 202208
Date: 2020.12.2x
Drawn: KLS
Check: JW

DETAILS

Scale: As indicated

95% CD'S / OWNER REVIEW SET
NOT FOR CONSTRUCTION

A5.22



| DOOR / OPENING SCHEDULE - ALTERNATE NO.1 | | | | | | | | | | | | | | |
|--|----------------|-----|-------|-------|---------------|------------|-------|--------|-------|---------------------|----|------|---------|---------|
| DOOR NO | DOOR / OPENING | | | LABEL | OVERALL WIDTH | FRAME TYPE | FRAME | | | MOUNTING CONDITIONS | | | H/W GRP | REMARKS |
| | TYPE | QTY | WIDTH | | | | MATL | RATING | DEPTH | MATL | GL | HEAD | | |
| A103 | F | 1 | 3'-0" | 7'-0" | HM | -- | 3'-4" | FR 1 | -- | HM | -- | | | |
| A104 | F | 1 | 3'-0" | 7'-0" | HM | -- | 3'-4" | FR 1 | -- | HM | -- | | | |
| A105 | F | 1 | 3'-0" | 7'-0" | HM | -- | 3'-4" | FR 1 | -- | HM | -- | | | |
| A106 | F | 1 | 3'-0" | 7'-0" | HM | -- | 3'-4" | FR 1 | -- | HM | -- | | | |
| A107 | F | 1 | 3'-0" | 7'-0" | HM | -- | 3'-4" | FR 1 | -- | HM | -- | | | |

DOOR SCHEDULE GENERAL NOTES

- ALL DOORS ARE 1 3/4" THICK UNLESS OTHERWISE NOTED.
- FOR FRAME DEPTH, ONLY EXCEPTIONS TO THE FOLLOWING TABLE ARE SCHEDULED:
GYPSUM BOARD PARTITIONS: THROAT OF FRAME TO MATCH WALL THICKNESS.
FRAME DEPTHS ARE SCHEDULED IN NOMINAL DIMENSIONS. SEE FRAME/ DOOR TYPES (DETAIL SECTION S1000) FOR CORRESPONDING ACTUAL DIMENSIONS.
- FOR GLASS TYPES, ONLY EXCEPTIONS TO THE FOLLOWING TABLE ARE SCHEDULED:
INTERIOR NON RATED:
CLEAR (SAFETY WHEN REQUIRED BY TABLE IN GLAZING SPECIFICATION)
INTERIOR AND EXTERIOR RATED:
FIRE RATED:
EXTERIOR NON-RATED:
CLEAR INSULATED (SAFETY INSULATED WHEN REQUIRED BY TABLE IN GLAZING SPECIFICATION.)
- SEE SHEET A1 01 FOR DOOR & FRAME TYPES.

DOOR SCHEDULE REMARKS

- SEE DETAIL 43018 FOR USE WITH ALTERNATE #1
- SEE DETAIL 54012 FOR USE WITH ALTERNATE #1
- PROVIDE FIRE NUMBER AT EXTERIOR DOORS DOOR NUMBER IN "1".

| ROOM FINISH SCHEDULE - ALTERNATE NO.1 | | | | | | | | | | | | |
|---------------------------------------|------------|-------|------|--------------|-------|--------|-------|--------|-------|--------|-------|---------|
| ROOM NO | ROOM NAME | FLOOR | BASE | N WALL - TYP | | E WALL | | S WALL | | W WALL | | REMARKS |
| | | | | MATL | FIN | MATL | FIN | MATL | FIN | MATL | FIN | |
| A103 | OFFICE | CONC | VB | GYP BD | PT-SA | GYP BD | PT-SA | GYP BD | PT-SA | GYP BD | PT-SA | 2 |
| A104 | BREAK ROOM | CONC | VB | GYP BD | PT-SA | GYP BD | PT-SA | GYP BD | PT-SA | GYP BD | PT-SA | 2 |
| A105 | TOILET | CONC | FRP | GYP BD | FRP | GYP BD | FRP | GYP BD | FRP | GYP BD | FRP | |
| A106 | STORAGE | CONC | | | | | | | | | | |
| A107 | MECH | CONC | | GYP BD | | GYP BD | | GYP BD | | GYP BD | | |

ROOM FINISH SCHEDULE GENERAL NOTES

- SEE DETAILS OF CONSTRUCTION FOR ABBREVIATIONS
- DISCREPANCIES BETWEEN THE ROOM FINISH SCHEDULE AND DRAWINGS SHALL BE REPORTED TO THE ARCHITECT FOR FINISH DETERMINATION
- ON WALLS WHICH ARE COVERED WITH MILLWORK AND TACK SURFACES, A FINISH SHALL NOT BE APPLIED TO THE WALL BEHIND EXCEPT FOR LOCATIONS WHICH MAY BE EXPOSED (I.E. SPACE BETWEEN MILLWORK AND TACK SURFACE.)
- REFER TO MATERIAL FINISH/ COLOR SCHEDULE FOR SPECIFIC FINISH TYPES AND COLORS.
- FOR CEILING MATERIAL WHEN MORE THAN ONE CEILING MATERIAL OCCURS THE CEILING FINISH IS INDICATED THUS: "1".

ROOM FINISH SCHEDULE REMARKS

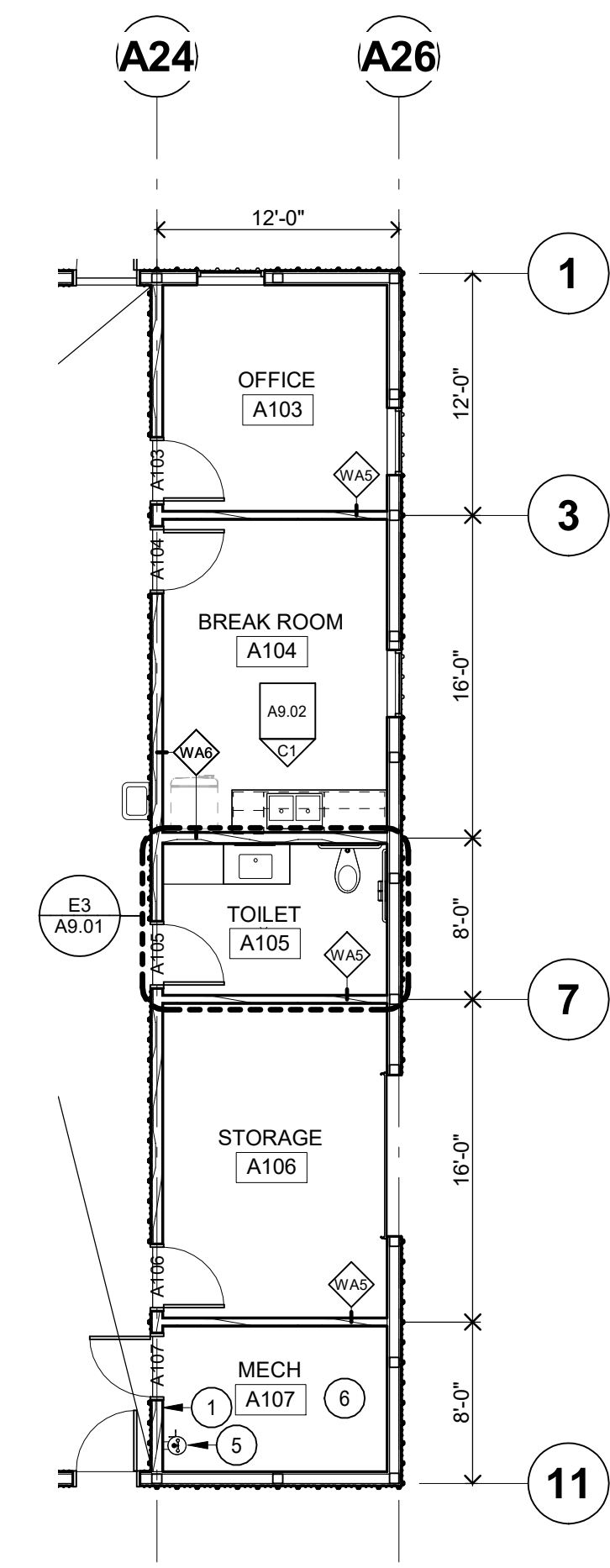
- OMIT METAL LINER PANELS EAST OF GRID A24 AT NORTH & SOUTH WALLS - SEE ALTERNATE NO.1 FOR EXTENTS OF OFFICE BUILDOUT
- PROVIDE VINYL BASE AT CASEWORK.
- PAINT ALL EXPOSED CEILING ITEMS, INC. STRUCTURE, DUCTWORK, ELECTRICAL, ETC. BLACK.
- SLOPE CONC. FLOOR TOWARDS EXTERIOR DOOR. SEE PLANS FOR FLOORSLOPING INFORMATION.

PLAN GENERAL NOTES

- ALL PLAN DIMENSIONS ARE NOMINAL TO FACE OF WALL. WALL THICKNESSES ARE SHOWN NOMINAL, SEE WALL TYPES FOR ACTUAL THICKNESS.
- ALL GYP WALLS ARE TO BE 5 INCHES THICK UNLESS OTHERWISE NOTED.
- FIRE RATED WALLS ARE INDICATED ON CODE PLANS.
- COORDINATE SIZE AND LOCATION OF ALL DUCT AND SHAFT OPENINGS IN WALLS AND FLOORS W/ MECH. AND ELEC. PROVIDE ALL REQUIRED LINTELS FOR OPENINGS. SEE LINTEL SCHEDULE.
- FIELD VERIFY ALL MILLWORK OPENINGS.
- SET FLOOR DRAINS 3/4" BELOW FINISHED CONCRETE FLOORS UNLESS OTHERWISE NOTED. PROVIDE CONSISTENT SLOPE FROM WALL TO DRAIN BY SLOPING CONCRETE, MIN. 1/4" PER FOOT.
- VERIFY LOCATION, SIZE AND QUANTITY OF ALL MECHANICAL AND ELECTRICAL EQUIPMENT PADS.
- ALL DOORS/DELTA OPENINGS TO BEGIN 4" FROM ADJACENT WALL UNLESS OTHERWISE NOTED.
- ALL GYP WALLS ARE CENTERED ON GRID UNLESS OTHERWISE NOTED.

FLOOR PLAN KEY NOTES:

- | | |
|--|---|
| 1 PORTABLE FIRE EXTINGUISHER - (BY OWNER?) | 7 ELECTRICAL EQUIPMENT - SEE ELECTRICAL |
| 2 BOLLARD - SEE DETAIL F1/A5.21 | 8 (NOT USED) |
| 3 METAL SIDING CORNER TRIM | 9 (NOT USED) |
| 4 4'-0" x 134'-0" CONCRETE APRON - SEE DETAIL F5/A5.21 | 10 (NOT USED) |
| 5 EYE WASH - SEE MECHANICAL | |
| 6 MECHANICAL EQUIPMENT - SEE MECHANICAL & ELECTRICAL | |



C6 MAIN LEVEL FLOOR PLAN - ALTERNATE NO.1



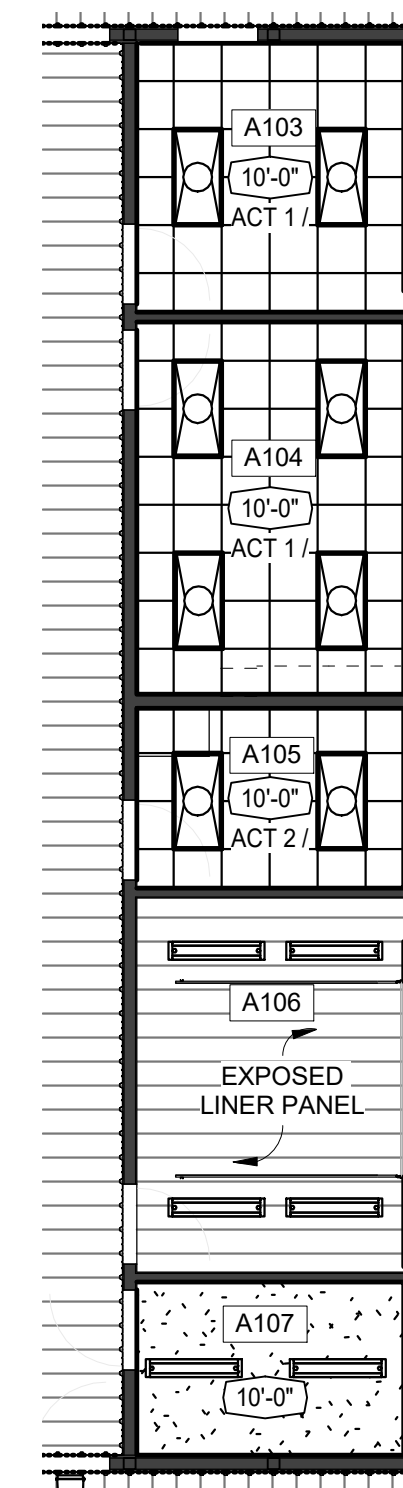
RCP GENERAL NOTES

- FOR WALLS THAT PENETRATE CEILINGS SEE WALL TYPES SHOWN ON THE FLOOR PLAN.
- SPRINKLER HEADS ARE NOT SHOWN. LOCATE ALL SPRINKLER HEADS IN THE CENTER OF CEILING TILES.
- FOR DIFFUSER AND RETURN GRILL SIZES, SEE MECHANICAL PLANS.
- FOR LIGHT FIXTURE TYPES, SEE ELECTRICAL LIGHTING PLANS.
- CEILING HEIGHTS INDICATED ON PLAN (E.G. 9'-0") ARE FROM FINISHED FLOOR OF LEVEL OF PLAN SHOWN OR INDICATED AS 10'-0".
- ACOUSTICAL TILE CEILING GRID IS TO BE CENTERED IN RECTANGULAR ROOM OR CENTERED BETWEEN LONGEST WALLS OF IRREGULARLY SHAPED ROOMS UNLESS OTHERWISE NOTED.
- VERIFY GYP. BD. CONTROL JOINT LOCATIONS WITH ARCHITECT PRIOR TO INSTALLATION.

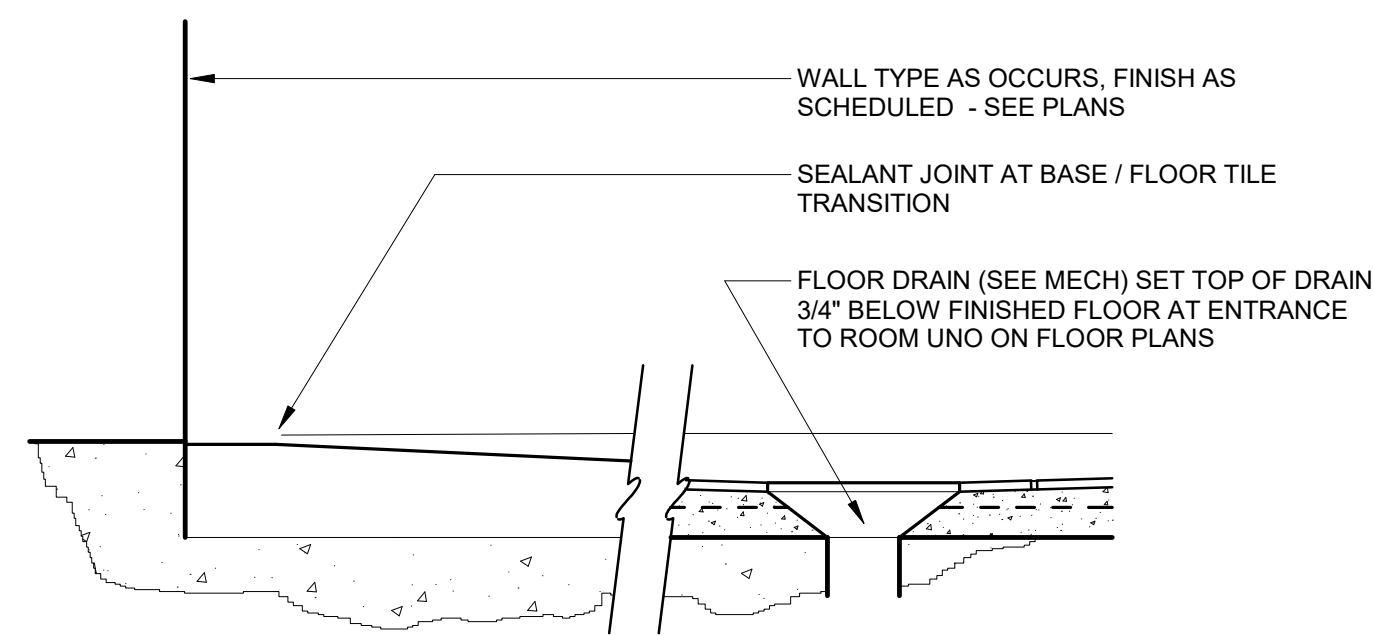
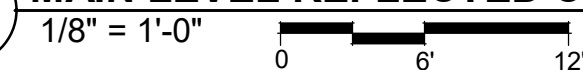
RCP KEY NOTES:

- INSULATED ACCESS PANEL
- DESTRATIFICATION FAN - SEE MECHANICAL AND ELECTRICAL
- MAKEUP AIR UNIT (MAU) HANGING FROM TRUSSES - SEE MECHANICAL AND ELECTRICAL BASIS OF DESIGN IS 90 LESS EA UNIT. VERIFY ACTUAL WEIGHT OF UNIT WITH MECHANICAL CONTRACTOR.

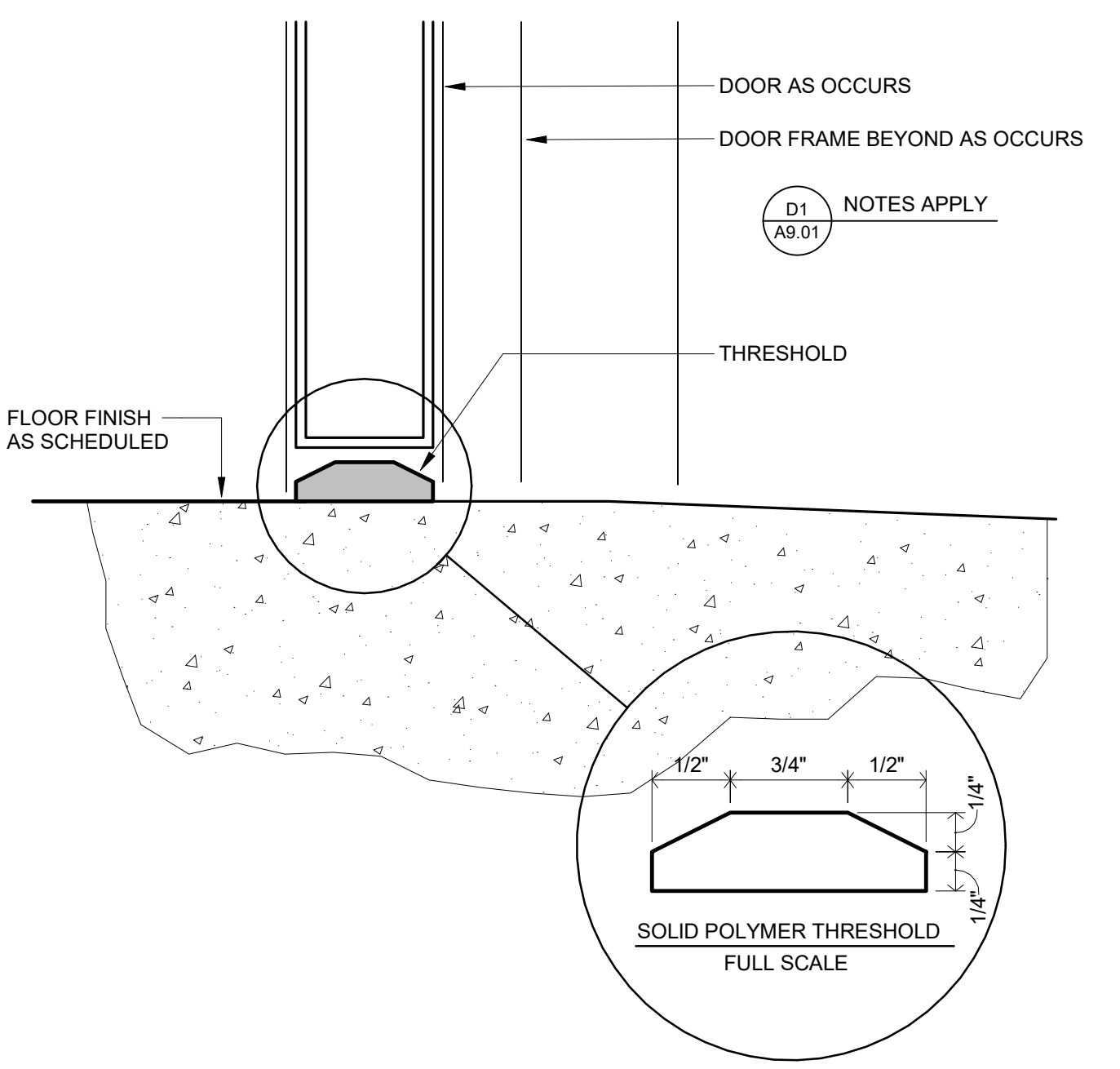
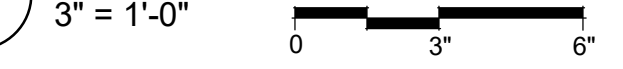
RCP LEGEND



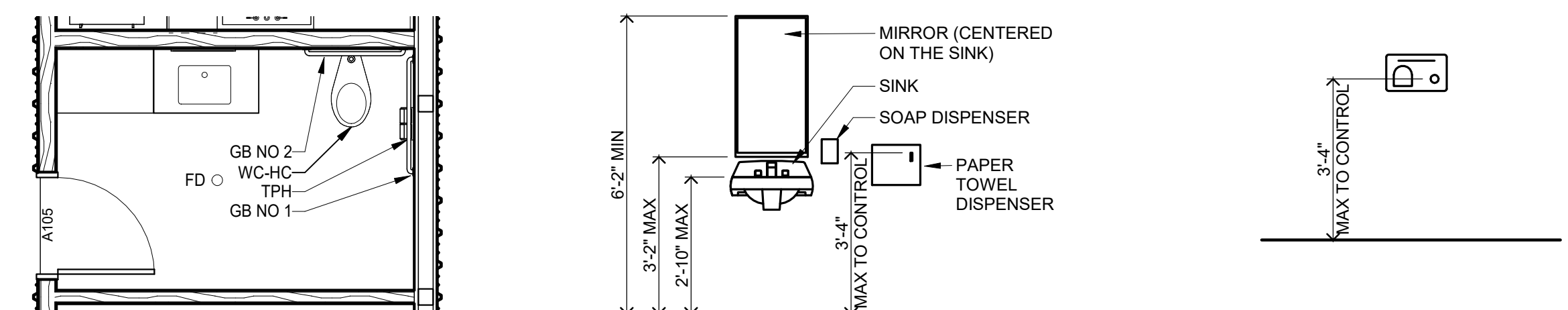
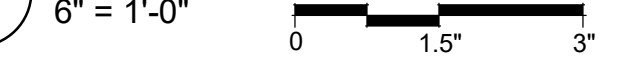
F6 MAIN LEVEL REFLECTED CEILING PLAN - ALTERNATE NO.1



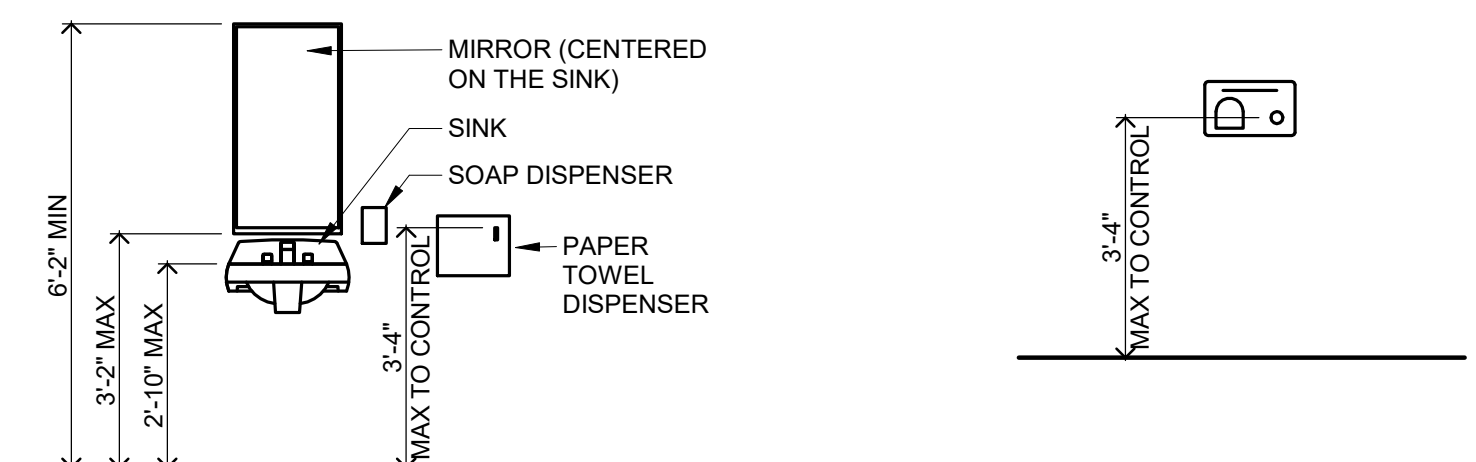
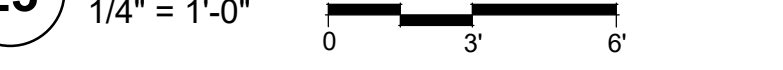
D1 TYP TOILET ROOM SECTION



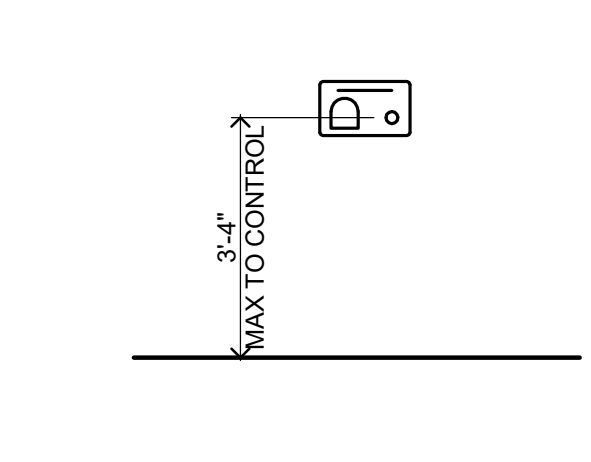
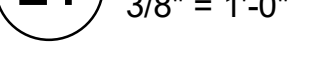
F1 TYP TOILET ROOM THRESHOLD



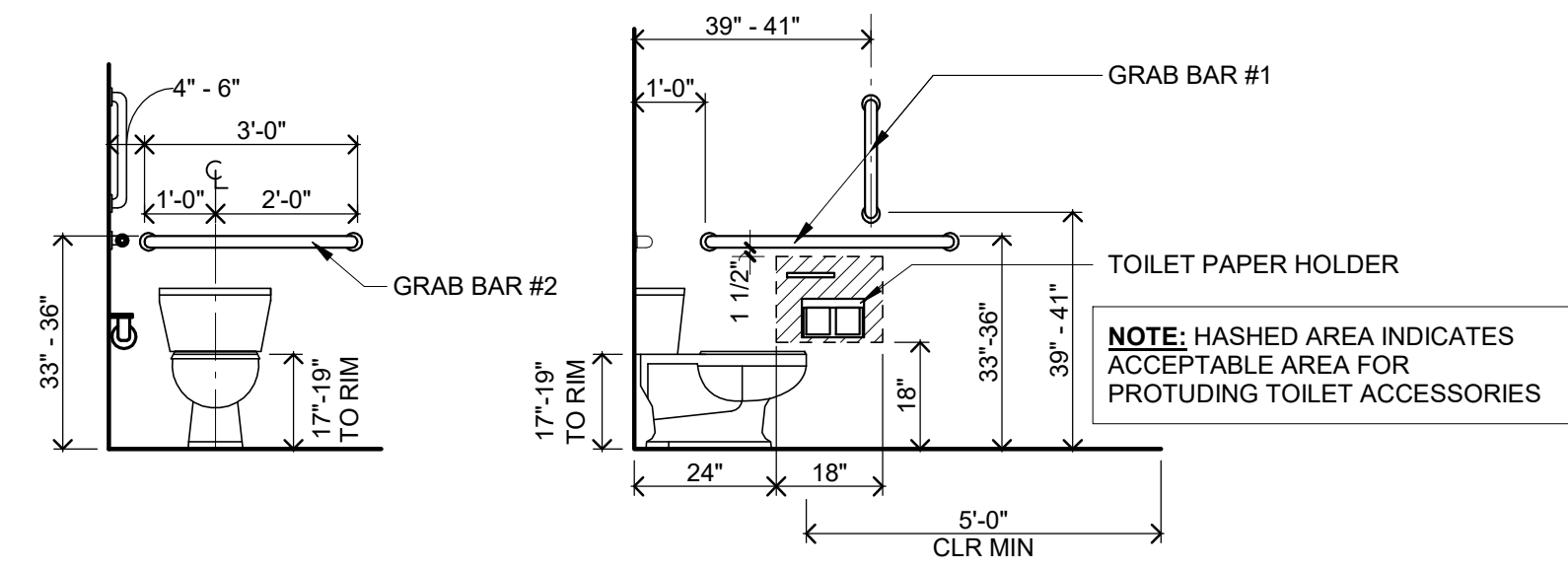
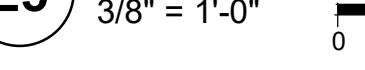
E3 ENLARGED PLAN AT A105 - TOILET



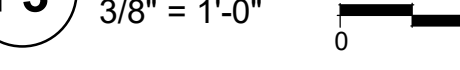
E4 LAV ELEV



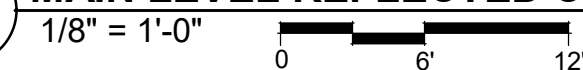
E5 HAND DRYER



F3 ADULT HCAP WC



F6 MAIN LEVEL REFLECTED CEILING PLAN - ALTERNATE NO.1



**95% CD'S / OWNER REVIEW SET
NOT FOR CONSTRUCTION**

**ALTERNATE NO.1
- FLOOR PLAN,
RCP, ENLARGED
TOILET PLAN,
AND DETAILS**

Scale: As Indicated
A9.01

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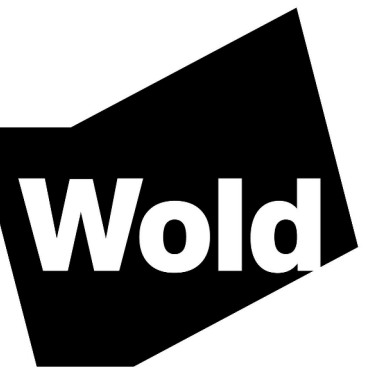
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 Date: 2020.12.2x
 Drawn: KLS
 Check: JW
 Scale: As Indicated

I hereby certify that this plan, specification or report was prepared by me or under my direct supervision and that I am a duly Licensed ARCHITECT under the laws of the State of MINNESOTA

JOEL DUNNING
License Number: 41467 Date: 2020.12.2x

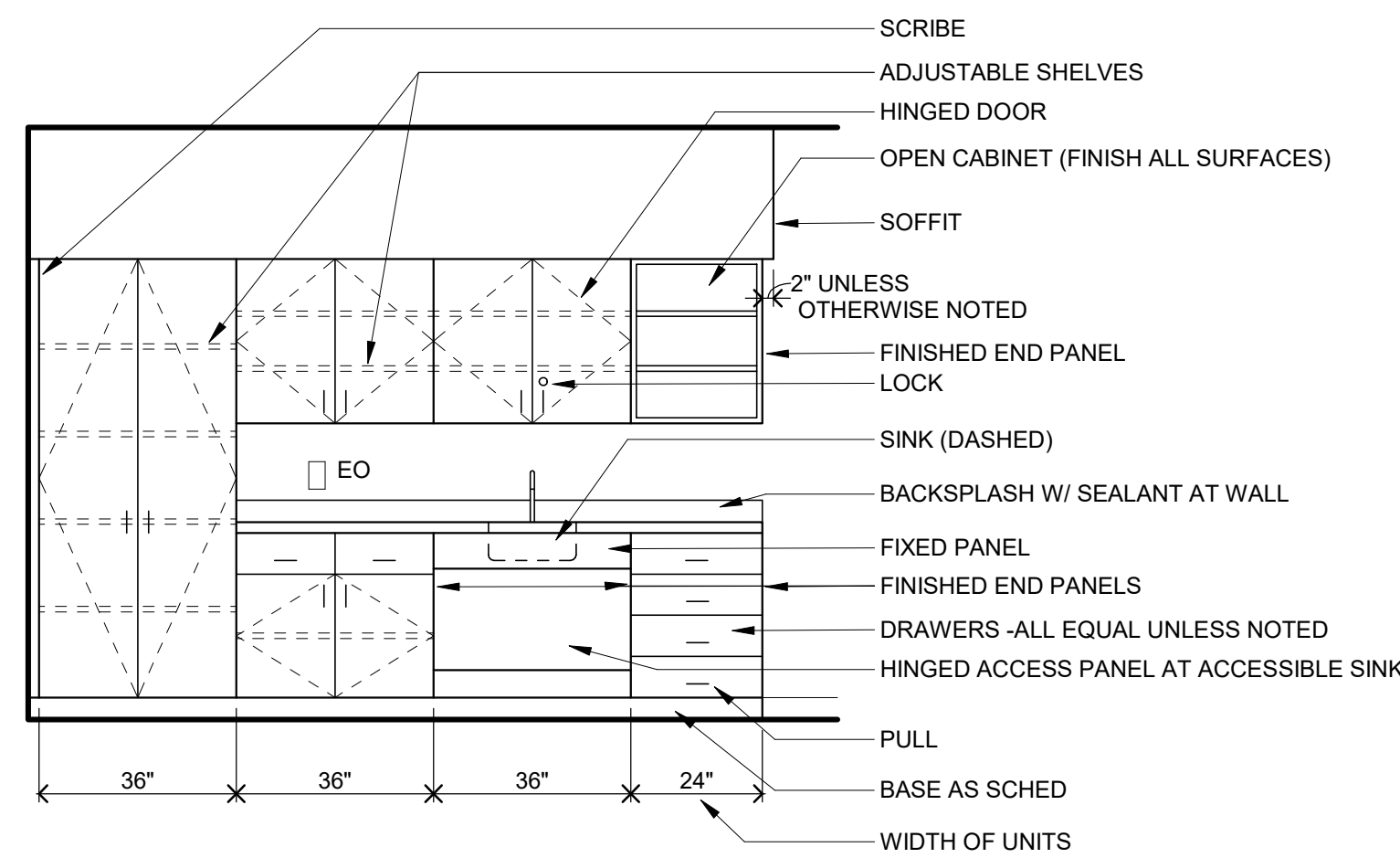
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Drawn: KLS
Check: JW
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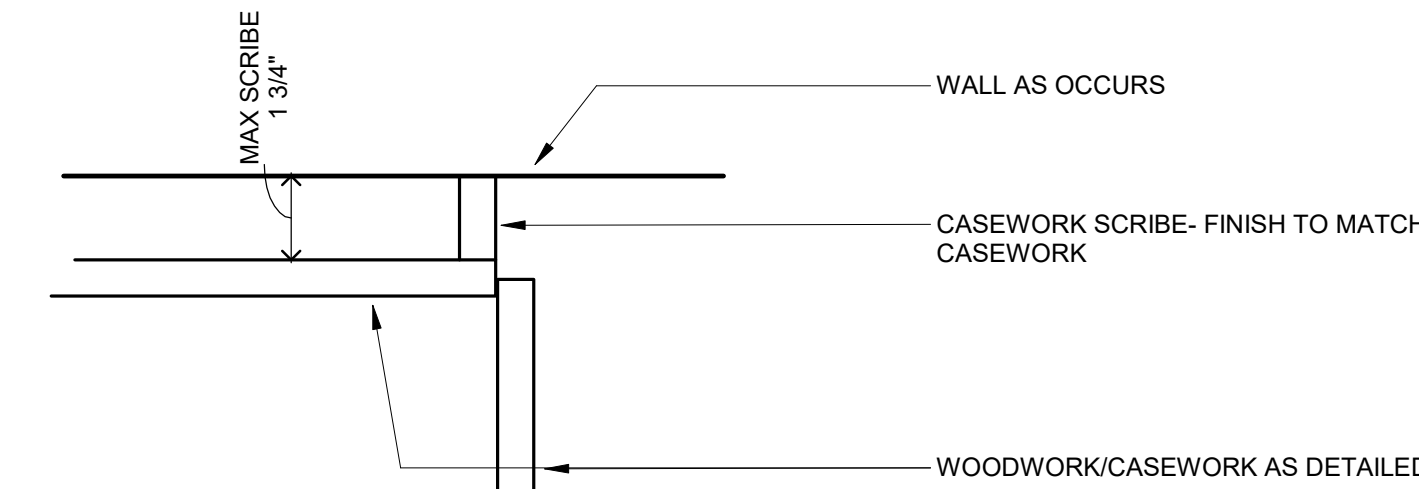


CASEWORK/MILLWORK GENERAL NOTES:

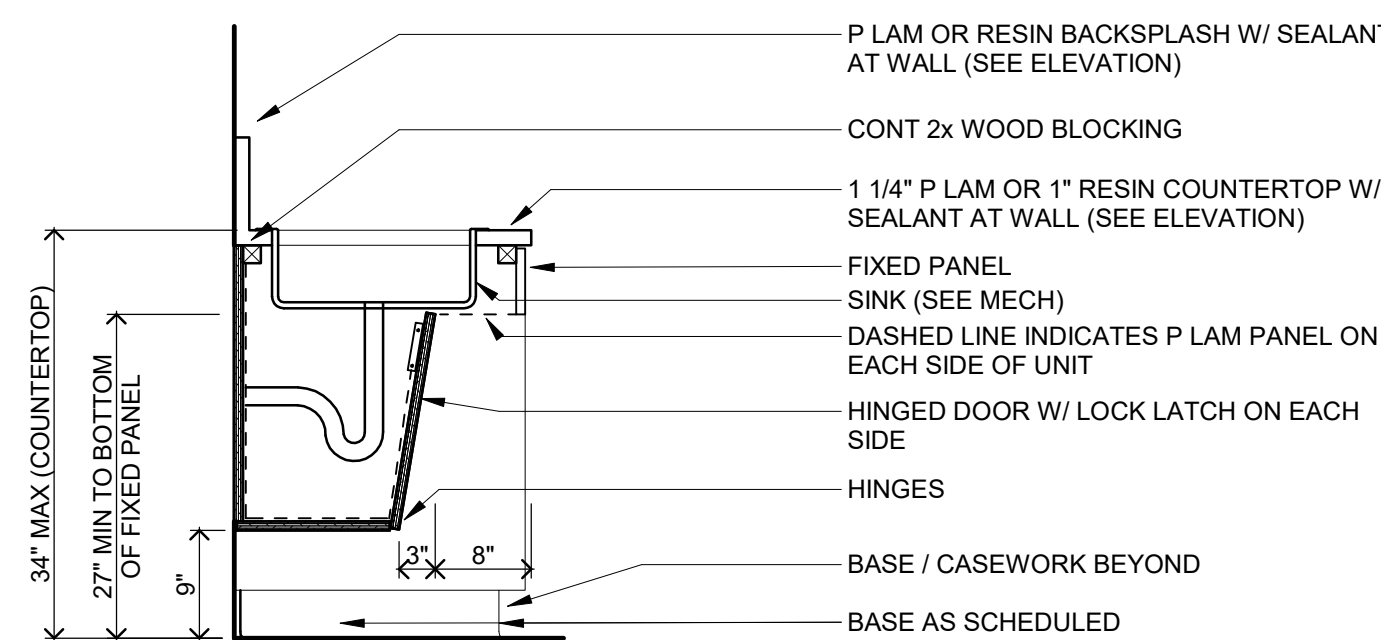
- THIS IS AN INFORMATION SHEET AND IS INTENDED ONLY TO IDENTIFY THE COMPONENTS OF CABINETWORK ON SUBSEQUENT DRAWINGS.
- WHERE A 90 DEGREE CORNER OCCURS, EXTEND BASE AND OR WALL CABINET (AND ADJUSTABLE SHELVES AS THEY OCCUR) INTO BLIND CORNER.
- ELECTRICAL OUTLETS (EO) ARE SHOWN AS THEY RELATE TO MILLWORK. COORDINATE! SEE ELECTRICAL.
- 1 3/4" MAXIMUM SCRIBE WIDTH PER SIDE. IF OPENING IS LARGER THAN 3 1/2", ADD ANOTHER 3" TO A CASEWORK UNIT.



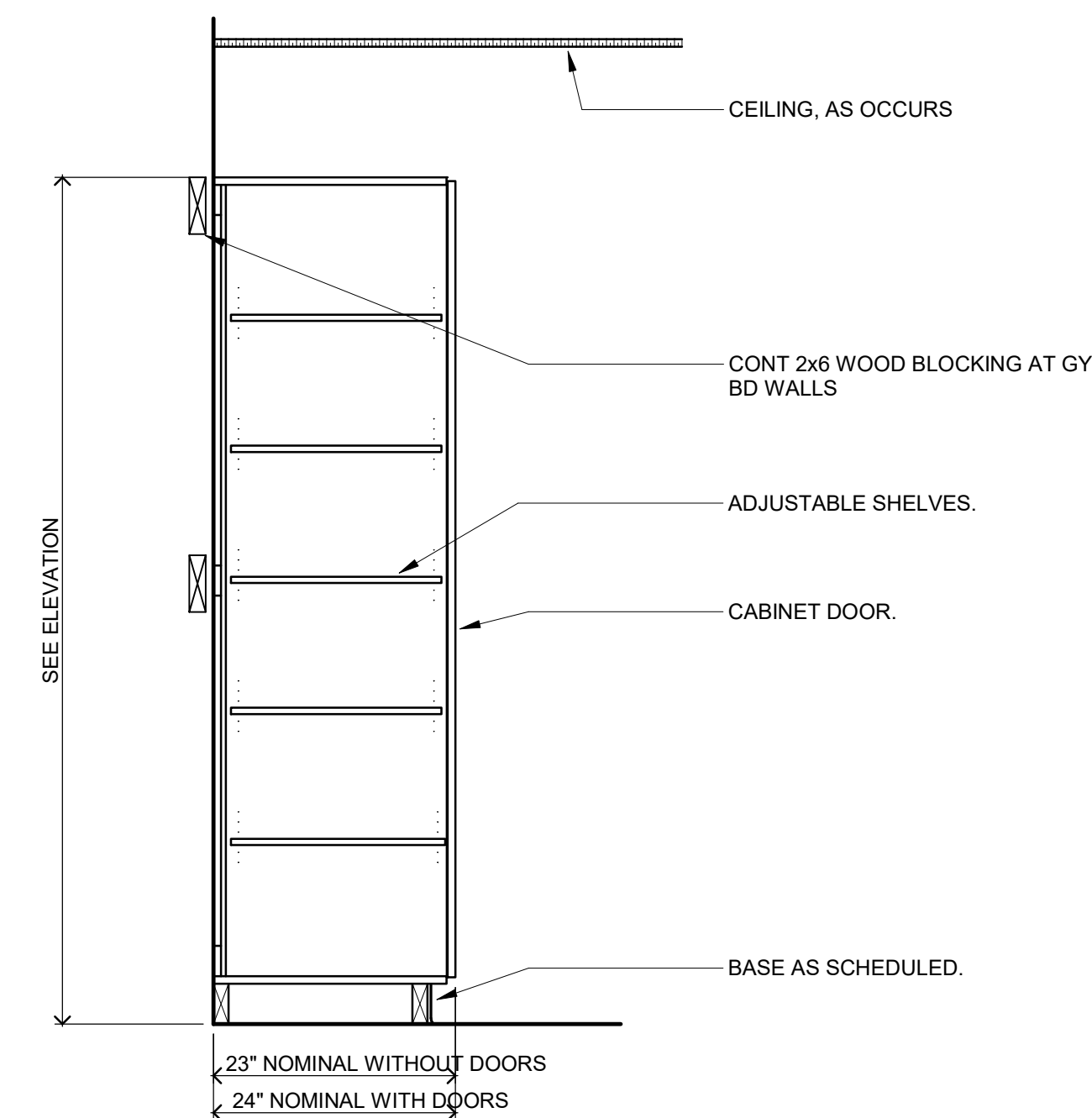
B1 MILLWORK GENERAL INFORMATION
3/8" = 1'-0"



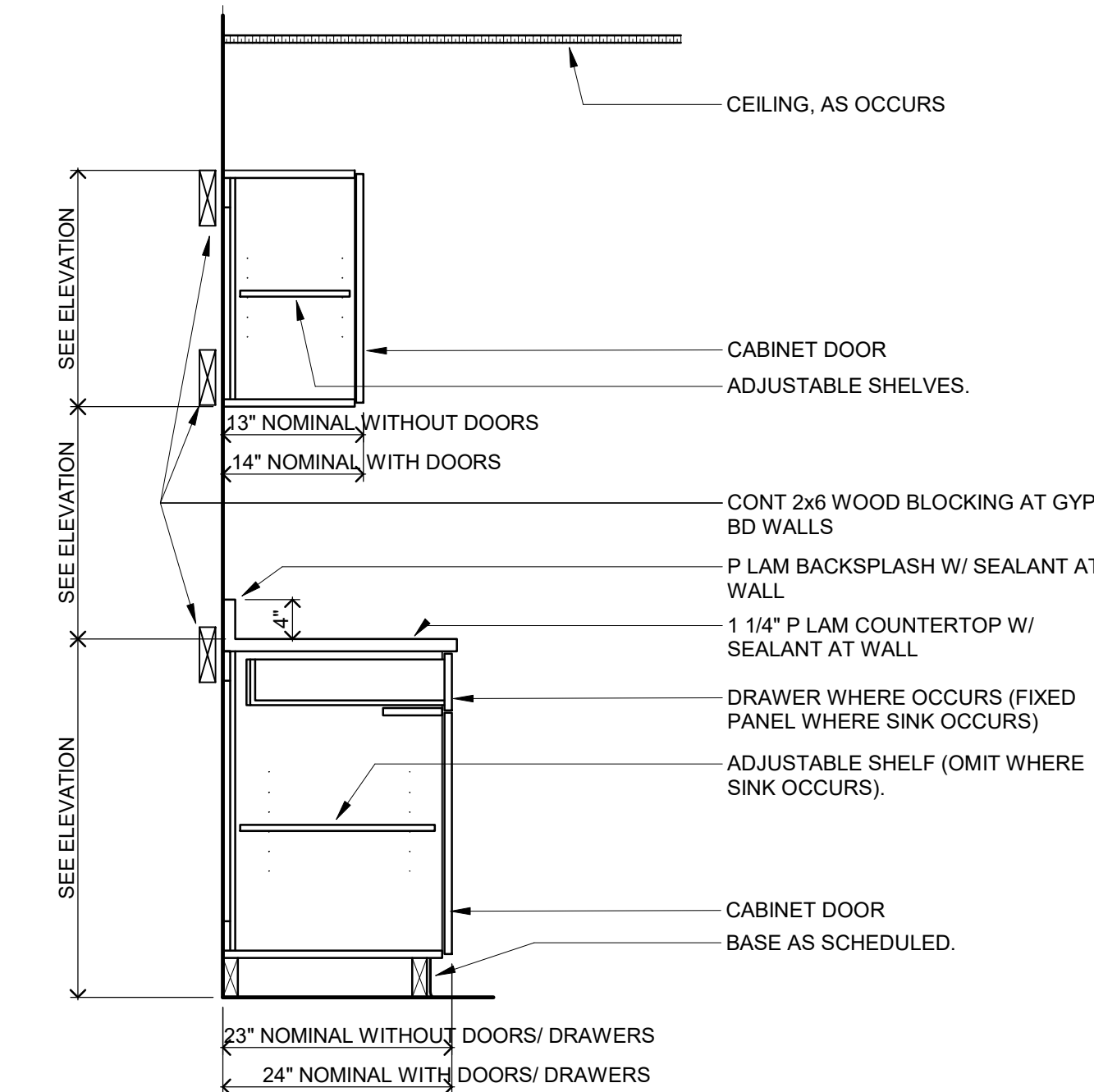
A3 PLAN AT CASEWORK
3" = 1'-0"



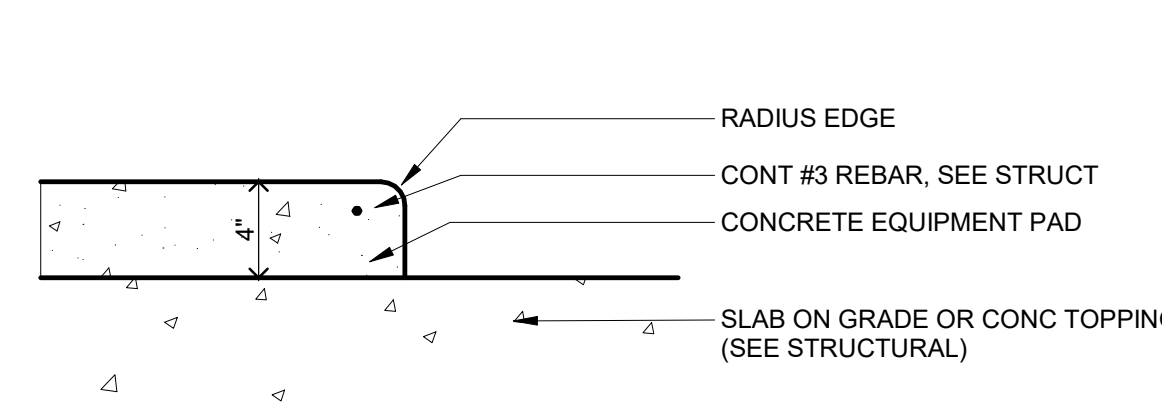
B3 SECTION AT ACCESSIBLE SINK
3/4" = 1'-0"



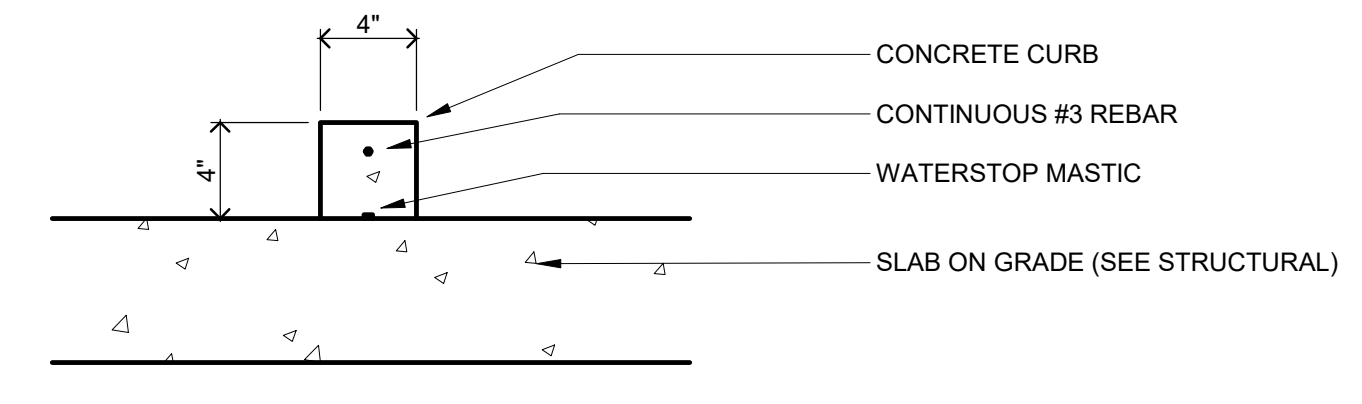
B5 TYPICAL FULL HEIGHT CASEWORK SECTION
3/4" = 1'-0"



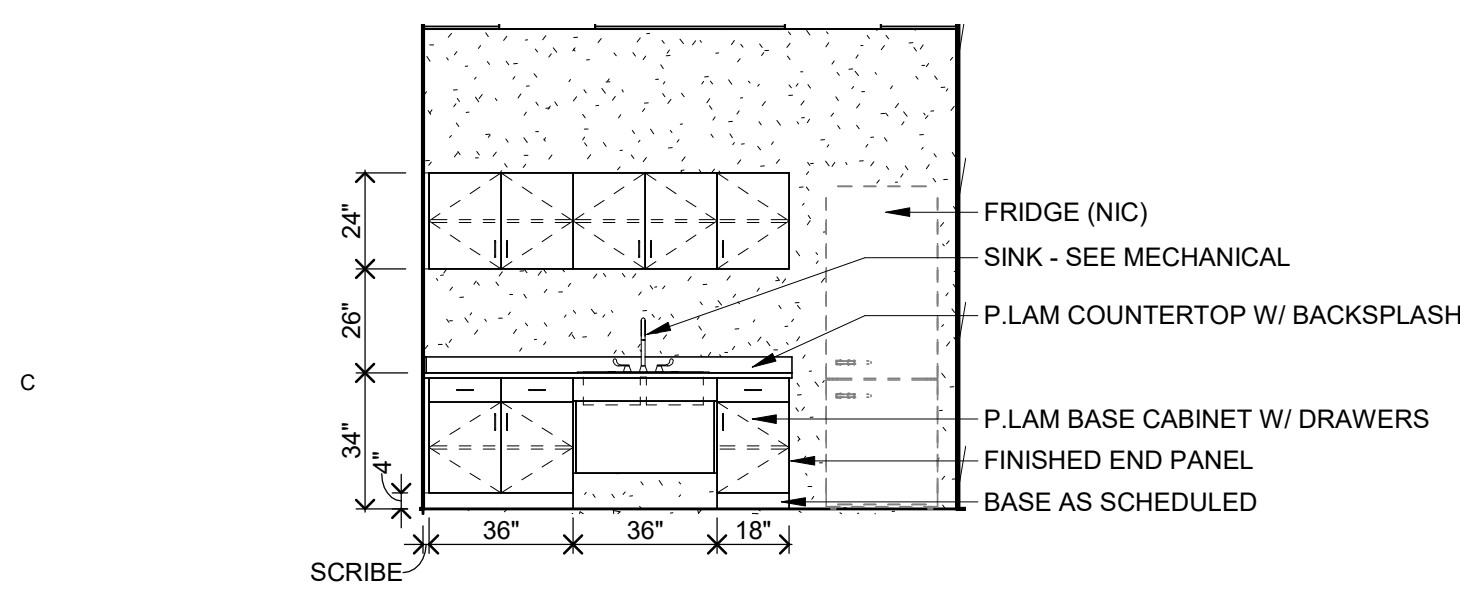
B7 TYPICAL CASEWORK SECTION
3/4" = 1'-0"



C5 HOUSEKEEPING PAD
1 1/2" = 1'-0"



C7 MECHANICAL CURB
1 1/2" = 1'-0"



C1 CASEWORK ELEVATION AT B104 - BREAK ROOM
1/4" = 1'-0"

I hereby certify that this plan, specification or report was prepared by me or under my direct supervision and that I am a duly Licensed ARCHITECT under the laws of the State of MINNESOTA

JOEL DUNNING
License Number: 41467 Date: 2020.12.2x

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Date: 2020.12.2x
Drawn: KLS
Check: JW

ALTERNATE NO.1 - DETAILS

Scale: As Indicated

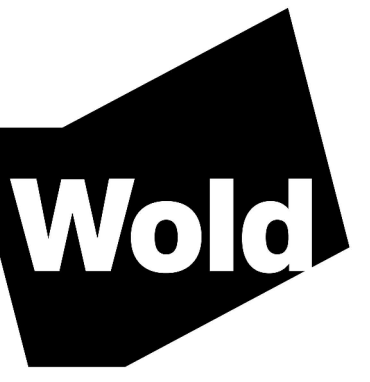
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**95% CD'S / OWNER REVIEW SET
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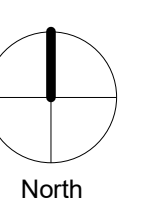


I hereby certify that this plan, specification or report was prepared by me or under my direct supervision and that I am a duly Licensed PROFESSIONAL ENGINEER under the laws of the State of MINNESOTA

License Number: **KEVIN MARSHALL 23989** Date: **12/22/20**

| Description | Revisions | |
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Comm: 2022208
Date: 12/18/2020
Drawn: Author
Check: Checker



MECHANICAL TITLE SHEET (SMALL TO MEDIUM PROJECT SIZE)

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

M0.0

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NOT FOR CONSTRUCTION**

| MECHANICAL SYMBOLS | | |
|---------------------------|---|--|
| PRESSURE GAGE | TWO WAY TEMPERATURE CONTROL VALVE | AIR DEVICE TAGS: SUPPLY DIFFUSER TYPE FACE SIZE & NECK DIA. AIR FLOW (CFM) |
| AIR VENT | THREE WAY TEMPERATURE CONTROL VALVE | |
| STRAINER | UNION | LINEAR SUPPLY DIFFUSER TYPE LENGTH IN FT. NUMBER OF SLOTS & NECK DIA. AIR FLOW (CFM) |
| PIPING GUIDE | THERMOMETER | |
| PIPING ANCHOR | SHUTOFF VALVE | SUPPLY REGISTER OR GRILLE TYPE SIZE AIR FLOW (CFM) |
| EXPANSION JOINT | CHECK VALVE | |
| FLEXIBLE CONNECTION | PRESSURE OR PRESSURE/TEMPERATURE RELIEF VALVE | RETURN GRILLE TYPE (24x24) TYPE (24x12) TYPE FACE SIZE NECK DIA. AIRFLOW (CFM) |
| DIRECTION OF FLOW | ANGLE VALVE | |
| CONCENTRIC REDUCER | PRESSURE REDUCING VALVE | EXHAUST, TRANSFER & RETURN REGISTERS & GRILLES TYPE SIZE AIR FLOW (CFM) |
| ECCENTRIC REDUCER | SOLENOID VALVE | |
| STEAM TRAP ASSEMBLY | WALL HYDRANT | LONG RADIUS DUCT ELBOW |
| ELBOW DOWN | HOSE BIBB | |
| ELBOW UP | LUBRICATED PLUG GAS COCK | SUPPLY AIR DIFFUSER |
| TEE CONNECTION DOWN | BALANCING VALVE | |
| TEE CONNECTION UP | RPZ VALVE | RETURN/EXHAUST AIR REGISTER/GRILLE |
| PIPING CONNECTION | BACKFLOW PREVENTOR | |
| CAPPED PIPE | FLOOR CLEANOUT | SUPPLY DIFFUSER TAKE-OFF W/ VOLUME DAMPER, MAXIMUM FLEX DUCT LENGTH 5'-0" |
| FINNED TUBE RADIATION | CLEANOUT | |
| FLOOR DRAIN | DUCT SMOKE DETECTOR | MANUAL VOLUME DAMPER |
| SHOCK ABSORBER | MOTORIZED O.B. DAMPER | |
| SUPPLY DUCT ELBOW DOWN | ACCESS PANEL | CONNECT TO EXISTING |
| SUPPLY DUCT ELBOW UP | ELBOW W/ TURNING VANES | |
| RETURN/EXHAUST ELBOW DOWN | LONG RADIUS DUCT ELBOW | CONNECT TO EXISTING |
| RETURN/EXHAUST ELBOW UP | RETURN/EXHAUST AIR REGISTER/GRILLE | |
| OUTSIDE AIR ELBOW DOWN | SUPPLY AIR DIFFUSER | CONNECT TO EXISTING |
| OUTSIDE AIR ELBOW UP | RETURN/EXHAUST AIR REGISTER/GRILLE | |
| SUPPLY AIR FLOW | SUPPLY AIR REGISTER | CONNECT TO EXISTING |
| RETURN AIR FLOW | SUPPLY DIFFUSER TAKE-OFF W/ VOLUME DAMPER, MAXIMUM FLEX DUCT LENGTH 5'-0" | |
| FIRE DAMPER | | CONNECT TO EXISTING |
| FIRE/SMOKE DAMPER | | |
| SMOKE DAMPER | | CONNECT TO EXISTING |
| RADIATION DAMPER | | |
| MANUAL VOLUME DAMPER | | CONNECT TO EXISTING |
| CONNECT TO EXISTING | | |

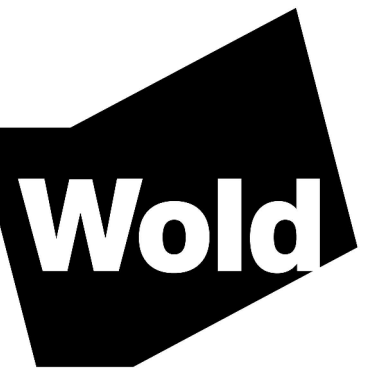
| MECHANICAL LINETYPES | |
|----------------------|--|
| —S— | DOMESTIC SOFT COLD WATER PIPING |
| — — — — — | DOMESTIC COLD WATER PIPING |
| — — — — — | DOMESTIC HOT WATER PIPING |
| —HT— | HEAT TRACE DOMESTIC HOT WATER PIPING |
| — — — — — | DOMESTIC CIRCULATING HOT WATER PIPING |
| — — — — — | VENT PIPING |
| — — — — —AV— | ACID RESISTANT VENT PIPING |
| — — — — — | SANITARY WASTE ABOVE GROUND PIPING |
| — — — — —SS— | SANITARY WASTE BELOW GROUND PIPING |
| — — — — —AW— | ACID RESISTANT WASTE ABOVE GROUND PIPING |
| — — — — —AW— | ACID RESISTANT WASTE BELOW GROUND PIPING |
| — — — — —PD— | PUMP DISCHARGE PIPING |
| — — — — —SD— | STORM DRAIN ABOVE GROUND PIPING |
| — — — — —SD— | STORM DRAIN BELOW GROUND PIPING |
| — — — — —CD— | CONDENSATE DRAIN PIPING |
| — — — — —I— | INDUSTRIAL AIR PIPING |
| — — — — —VAC— | VACUUM PIPING |
| — — — — —NG— | NATURAL GAS PIPING |
| — — — — —ING— | INTERRUPTIBLE NATURAL GAS PIPING |
| — — — — —FNG— | FIRM NATURAL GAS PIPING |
| — — — — —LPG— | LIQUEFIED PETROLEUM GAS PIPING |
| — — — — —FOS— | FUEL OIL SUPPLY PIPING |
| — — — — —FOR— | FUEL OIL RETURN PIPING |
| — — — — —FOG— | FUEL OIL GAGE PIPING |
| — — — — —FP— | FIRE PROTECTION PIPING |
| — — — — —HWS— | BUILDING HEATING WATER SUPPLY PIPING |
| — — — — —HWR— | BUILDING HEATING WATER RETURN PIPING |
| — — — — —LPS— | LOW PRESSURE STEAM PIPING |
| — — — — —MPS— | MEDIUM PRESSURE STEAM PIPING |
| — — — — —HPS— | HIGH PRESSURE STEAM PIPING |
| — — — — —LPR— | LOW PRESSURE CONDENSATE RETURN PIPING |
| — — — — —MPR— | MEDIUM PRESSURE CONDENSATE RETURN PIPING |
| — — — — —HPR— | HIGH PRESSURE CONDENSATE RETURN PIPING |
| — — — — —RR— | REVERSE RETURN HYDRONIC PIPING (EXISTING) |
| — — — — —DHS— | DISTRICT HEATING SUPPLY PIPING |
| — — — — —DHR— | DISTRICT HEATING RETURN PIPING |
| — — — — —CHWS— | BUILDING CHILLED WATER SUPPLY PIPING |
| — — — — —CHWR— | BUILDING CHILLED WATER RETURN PIPING |
| — — — — —CWS— | BUILDING CHILLER CONDENSER WATER SUPPLY PIPING |
| — — — — —CWR— | BUILDING CHILLER CONDENSER WATER RETURN PIPING |
| — — — — —LIQ— | DX REFRIGERATION SYSTEM LIQUID PIPING |
| — — — — —SUC— | DX REFRIGERATION SYSTEM SUCTION PIPING |
| — — — — —HG— | DX REFRIGERATION SYSTEM HOT GAS PIPING |
| — — — — —BF— | BOILER FEED PIPING |
| — — — — —ES— | EXTERIOR HYDRONIC SUPPLY PIPING |
| — — — — —IS— | INTERIOR HYDRONIC SUPPLY PIPING |
| — — — — —CCHWS— | CAMPUS CHILLED WATER SUPPLY |
| — — — — —CCHWR— | CAMPUS CHILLED WATER RETURN |
| — — — — —O— | OXYGEN PIPING |
| — — — — —V— | VACUUM PIPING |
| — — — — —A— | MEDICAL AIR PIPING |
| — — — — —N— | NITROGEN PIPING |
| — — — — —W— | WASTE ANESTHESIA GAS DISPOSAL PIPING |
| — — — — —NO— | NITROUS OXIDE PIPING |
| — — — — —CO— | CARBON DIOXIDE PIPING |
| — — — — —IA— | INSTRUMENT AIR PIPING |

| MECHANICAL ABBREVIATIONS | | | |
|--------------------------|----------------------------|-------|---------------------------|
| AD | AREA DRAIN | GR | GRILLE |
| AFF | ABOVE FINISHED FLOOR | HB | HOSE BIBB |
| AHAP | AS HIGH AS POSSIBLE | HCW | HARD COLD WATER |
| BFF | BELOW FINISHED FLOOR | HP | HORSE POWER |
| BLDG | BUILDING | HW | HOT WATER |
| BSMT | BASEMENT | INV | INVERT |
| BTWN | BETWEEN | KW | KILOWATT |
| CB | CATCH BASIN | LAT | LEAVING AIR TEMPERATURE |
| CFM | CUBIC FEET/MINUTE | LWT | LEAVING WATER TEMPERATURE |
| CHW | CIRCULATING HOT WATER | MAX | MAXIMUM |
| CLG | CEILING | MBH | 1000 BTU |
| CO | CLEANOUT | MECH | MECHANICAL |
| CONCR | CONCRETE | MH | MANHOLE |
| CONTR | CONTRACTOR | MIN | MINIMUM |
| CW | COLD WATER | NTS | NOT TO SCALE |
| DB | DRY BULB | OA | OUTSIDE AIR |
| DEG | DEGREE | OBD | OPPOSED BLADE DAMPER |
| DIA | DIAMETER | ORD | OVERFLOW ROOF DRAIN |
| DIFF | DIFFUSER | P.# | PLUMBING FIXTURE NUMBER |
| EAT | ENTERING AIR TEMPERATURE | P & T | PRESSURE AND THERMOSTATIC |
| EDR | SQUARE FEET RADIATION | PD | PRESSURE DROP |
| EFF | EFFICIENCY | PLBG | PLUMBING |
| EL | ELBOW | QUAN | QUANTITY |
| ELEC | ELECTRICAL | RA | RETURN AIR |
| ELEV | ELEVATION | RD | ROOF DRAIN |
| EWT | ENTERING WATER TEMPERATURE | REG | REGISTER |
| EXH | EXHAUST | REQ'D | REQUIRED |
| EXIST | EXISTING | RPM | REVOLUTIONS/MINUTE |
| F | DEGREES FAHRENHEIT | SA | SUPPLY AIR |
| F & T | FLOAT AND THERMOSTATIC | SCW | SOFT COLD WATER |
| FD | FLOOR DRAIN | SHT | SHEET |
| FH | FIRE HYDRANT | SP | STATIC PRESSURE |
| FLA | FULL LOAD AMPS | TD | TEMPERATURE DIFFERENCE |
| FLR | FLOOR | VTR | VENT THROUGH ROOF |
| FTR | FINNED TUBE RADIATION | W/ | WITH |
| GEN | GENERAL | WB | WET BULB |
| GPM | GALLONS/MINUTE | WH | WALL HYDRANT |

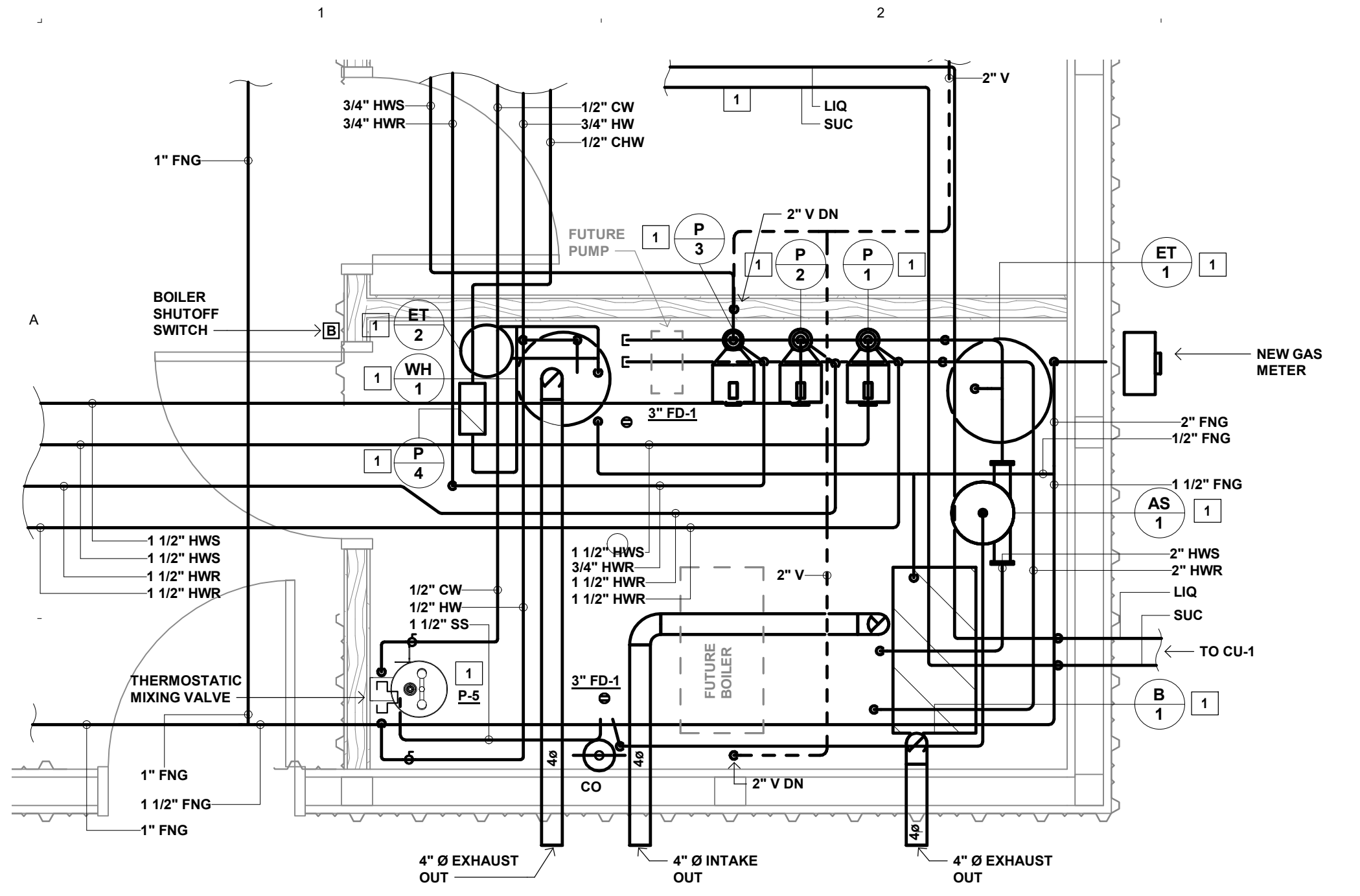
| MECHANICAL SHEET LIST | |
|-----------------------|---|
| M0.0 | MECHANICAL TITLE SHEET (SMALL TO MEDIUM PROJECT SIZE) |
| M1.0 | PLUMBING PLANS |
| M1.1 | HYDRONIC, HVAC, AND BOILER ROOM PLANS |
| M2.0 | DETAILS |
| M2.1 | DETAILS |
| M2.2 | DETAILS AND SCHEMATIC |
| M2.3 | SUPPLY AND WASTE RISERS |
| M2.4 | SCHEDULES |
| M4 | INFLOOR HEAT NOTES |

MN

M



MN



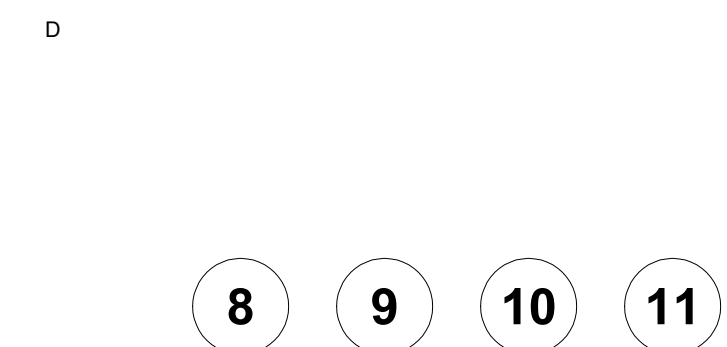
B1 BOILER ROOM
1/2" = 1'-0"

BOILER ROOM PLAN GENERAL NOTES:

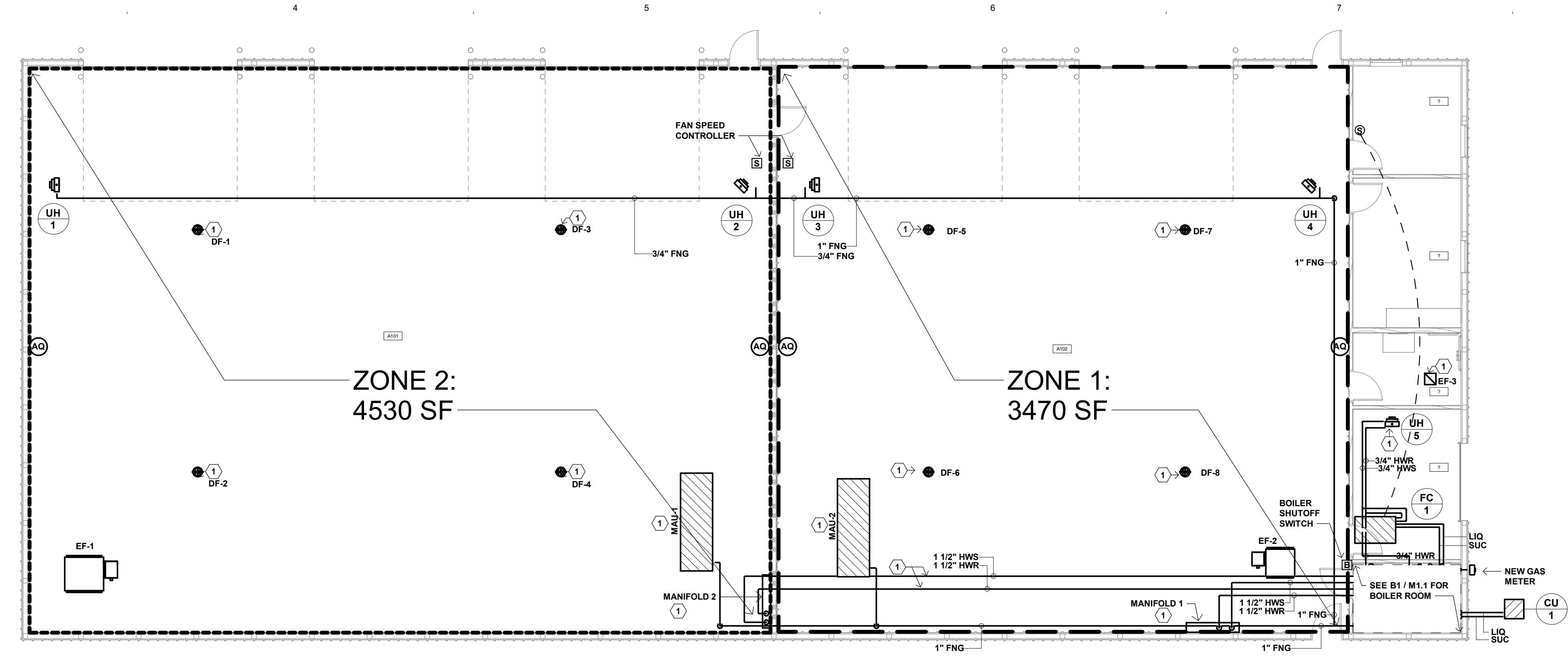
1. ALL RISES AND DROPS IN DUCTWORK ARE NOT NECESSARILY SHOWN. LAYOUT ROUTING AND COORDINATE WORK WITH OTHER TRADES BEFORE CONSTRUCTION.
2. MECHANICAL CONTRACTOR SHALL BE RESPONSIBLE FOR CUTTING AND PATCHING OF CONSTRUCTION UNLESS OTHERWISE NOTED ON THE PLANS. NO CUTTING OF STRUCTURAL MEMBERS OR STRUCTURE WHICH WILL DETERIORATE THE INTEGRITY AND STRENGTH OF THE BUILDING WILL BE ALLOWED WITHOUT WRITTEN APPROVAL FROM THE STRUCTURAL ENGINEER.
3. MECHANICAL CONTRACTOR SHALL DETERMINE LIMITATIONS AND/OR CONFLICTS RELATIVE TO THE EXECUTION OF HIS WORK PRIOR TO BID. VERIFY EXACT DETAIL OF INSTALLATION REQUIRED TO PROVIDE SYSTEMS SHOWN WITHIN SPACE INTENDED.
4. VERIFY EXACT LOCATIONS OF FLOOR DRAINS WITH ARCHITECTURAL PLANS.
5. SLEEVE AND FIRESTOP ALL PIPE PENETRATIONS THROUGH FIRE RATED WALLS.
6. REFER TO ARCHITECTURAL PLANS FOR CONCRETE CURBS AND PADS. COORDINATE EXACT SIZES AND LOCATIONS.
7. VARIABLE FREQUENCY DRIVES ARE PROVIDED BY THE MECHANICAL CONTRACTOR AND INSTALLED BY THE ELECTRICAL CONTRACTOR.
8. THE MECHANICAL CONTRACTOR SHALL BE RESPONSIBLE FOR ALL REQUIRED REINFORCEMENT OF NEW AND EXISTING STRUCTURAL MEMBERS FOR MECHANICAL SYSTEMS. REFER TO "MECHANICAL SUPPORT REINFORCEMENT DETAIL" FOR ADDITIONAL REQUIREMENTS.

BOILER ROOM PLAN KEYED NOTES:

- 1 PROVIDE ONLY UNDER ALTERNATE #1 AND/OR ASSOCIATED PIPING AND VENTING.



F1 MAU-1 SECTION VIEW
1/8" = 1'-0"



C3 HYDRONIC PLAN - MAIN LEVEL
1/8" = 1'-0"

- HYDRONIC PLAN GENERAL NOTES:**
1. ALL RISES AND DROPS IN PIPING ARE NOT NECESSARILY SHOWN. LAYOUT ROUTING AND COORDINATE WORK WITH OTHER TRADES BEFORE CONSTRUCTION.
 2. MECHANICAL CONTRACTOR SHALL BE RESPONSIBLE FOR CUTTING AND PATCHING OF CONSTRUCTION UNLESS OTHERWISE NOTED ON THE PLANS. NO CUTTING OF STRUCTURAL MEMBERS OR STRUCTURE WHICH WILL DETERIORATE THE INTEGRITY AND STRENGTH OF THE BUILDING WILL BE ALLOWED WITHOUT WRITTEN APPROVAL FROM THE STRUCTURAL ENGINEER.
 3. LOCATE ALL VALVES, METERS, GAUGES, AND PIPING SPECIALTIES ABOVE ACCESSIBLE CEILING.
 4. COORDINATE TEMPERATURE SENSOR LOCATIONS WITH OTHER TRADES, BUILDING ELEMENTS, MARKER BOARDS, AND ELECTRICAL SWITCHES. ADJUST THE EXACT LOCATIONS AS REQUIRED TO AVOID CONFLICTS.
 5. BRANCH PIPING TO EQUIPMENT TO BE 3/4" UNLESS OTHERWISE NOTED.
 6. ROUTE PIPES BETWEEN JOIST WEBS WHERE REQUIRED TO COORDINATE WITH THE INSTALLATION OF OTHER TRADES AND TO MAINTAIN CEILING HEIGHTS. COORDINATE LOCATIONS PRIOR TO CROSS BRACING TO ENSURE THERE ARE NO CONFLICTS.
 7. THE MECHANICAL CONTRACTOR SHALL BE RESPONSIBLE FOR ALL REQUIRED REINFORCEMENT OF NEW AND EXISTING STRUCTURAL MEMBERS FOR MECHANICAL SYSTEMS. REFER TO "MECHANICAL SUPPORT REINFORCEMENT DETAIL" FOR ADDITIONAL REQUIREMENTS.
 8. PROVIDE INFLOOR HEATING PIPING AND MANIFOLD UNDER BASE BID. PROVIDE CONTROL VALVE, CIRCULATING PUMP, BOILER PLANT, HEATING WATER SUPPLY/RETURN PIPING, AND CONTROL PANEL UNDER ALTERNATE #1.

HYDRONIC PLAN KEYED NOTES:

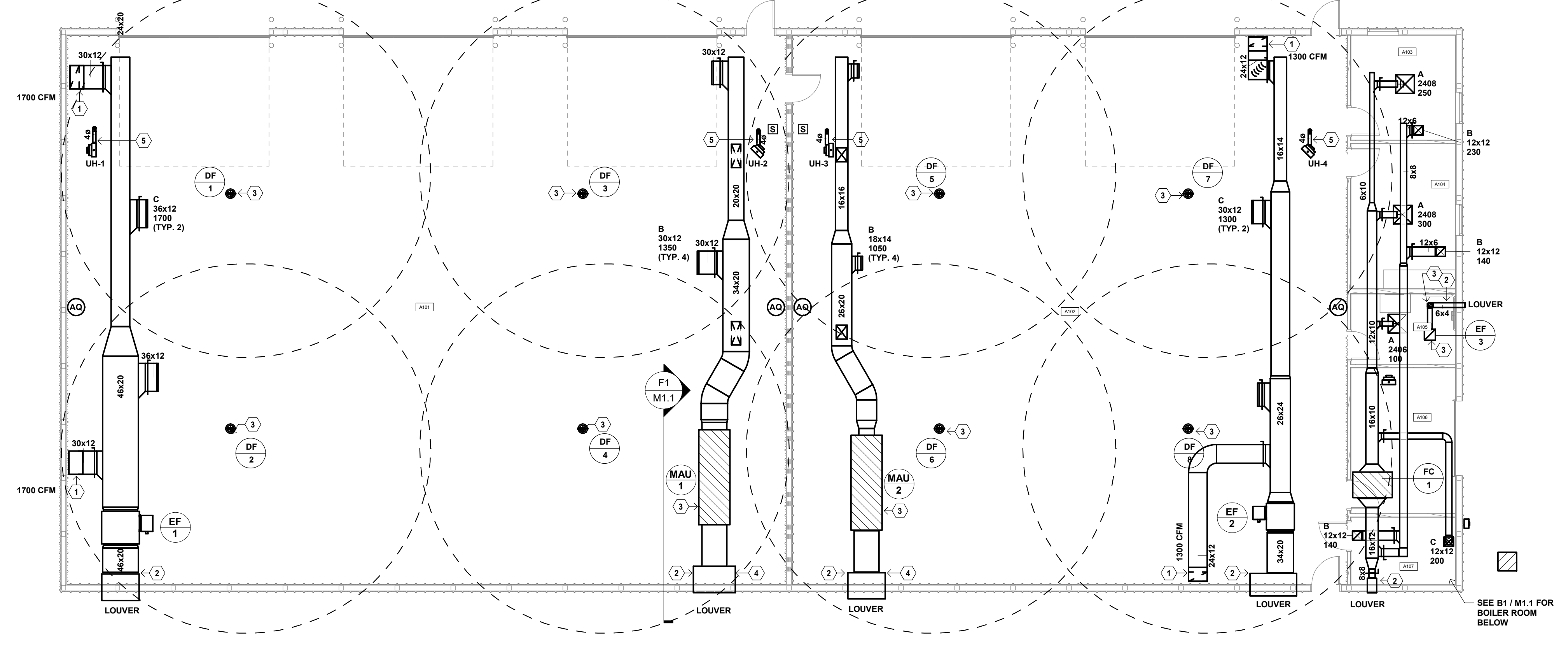
- 1 PROVIDE ONLY UNDER ALTERNATE #1.

HVAC PLAN GENERAL NOTES:

1. TRANSFER DUCTS AND DUCTS CONNECTED TO TRANSFER FANS SHALL HAVE 1" INTERNAL SOUND ATTENUATING LINER.
2. DO NOT INSTALL FLEXIBLE DUCT CONNECTIONS ABOVE INACCESSIBLE CEILING.
3. DIFFUSER DUCT RUNOUTS AND FLEXIBLE DUCT CONNECTIONS SHALL BE THE SAME SIZE AS THE DIFFUSER NECK.
4. LOCATE BALANCING DAMPERS ABOVE ACCESSIBLE CEILING WHERE POSSIBLE.
5. COORDINATE LOCATIONS OF ANY ACCESS PANELS REQUIRED IN WALLS OR CEILING WITH GENERAL CONTRACTOR.
6. ROUTE DUCTS BETWEEN JOISTS AND THROUGH JOIST WEBS WHERE REQUIRED TO COORDINATE WITH THE INSTALLATION OF OTHER TRADES AND TO MAINTAIN CEILING HEIGHTS. COORDINATE LOCATIONS PRIOR TO CROSS BRACING TO ENSURE THERE ARE NO CONFLICTS. AREAS KEYNOTED ARE MINIMUM REQUIRED.
7. DIFFUSER AND REGISTER LOCATIONS SHALL BE COORDINATED WITH LIGHT FIXTURE LOCATIONS AND SHALL BE IN ACCORDANCE WITH CEILING PATTERNS AS SHOWN ON THE ARCHITECTURAL REFLECTED CEILING PLANS.
8. ALL RISES AND DROPS IN DUCTWORK ARE NOT NECESSARILY SHOWN. LAYOUT ROUTING AND COORDINATE WORK WITH OTHER TRADES BEFORE CONSTRUCTION.
9. ALL SUPPLY DUCTWORK ROUTED IN CONCEALED SPACES AND ABOVE CEILING SHALL BE EXTERNALLY INSULATED. DO NOT INSULATE RETURN DUCTWORK. INSULATE RELIEF DUCTWORK AS SPECIFIED.
10. MECHANICAL CONTRACTOR SHALL BE RESPONSIBLE FOR CUTTING AND PATCHING OF CONSTRUCTION UNLESS OTHERWISE NOTED ON THE PLANS. NO CUTTING OF STRUCTURAL MEMBERS OR STRUCTURE WHICH WILL DETERIORATE THE INTEGRITY AND STRENGTH OF THE BUILDING WILL BE ALLOWED WITHOUT WRITTEN APPROVAL FROM THE STRUCTURAL ENGINEER.
11. MECHANICAL CONTRACTOR SHALL DETERMINE LIMITATIONS AND/OR CONFLICTS RELATIVE TO THE EXECUTION OF HIS WORK PRIOR TO BID. VERIFY EXACT DETAIL OF INSTALLATION REQUIRED TO PROVIDE SYSTEMS SHOWN WITHIN SPACE INTENDED.
12. THE MECHANICAL CONTRACTOR SHALL BE RESPONSIBLE FOR ALL REQUIRED REINFORCEMENT OF NEW AND EXISTING STRUCTURAL MEMBERS FOR MECHANICAL SYSTEMS. REFER TO "MECHANICAL SUPPORT REINFORCEMENT DETAIL" FOR ADDITIONAL REQUIREMENTS.

HVAC PLAN KEYED NOTES:

- 1 TERMINATE GARAGE EXHAUST DUCT AT APPROXIMATELY 12" AFF. PROVIDE WITH 1/2" x 1/2" GALVANIZED BIRDSCREEN. REFER TO DETAIL C1 / M2.1 AND BALANCE TO INDICATED CFM.
- 2 CONNECT DUCT TO LOUVER. COORDINATE SIZE AND LOCATION OF LOUVER WITH ARCHITECTURAL DRAWINGS. INSTALL PER DETAIL C3 / M2.1.
- 3 PROVIDE ONLY UNDER ALTERNATE #1.
- 4 PROVIDE MOTORIZED DAMPER ON OUTSIDE AIR LOUVER UNDER BASE BID. PROVIDE MAKE-UP AIR UNIT UNDER ALTERNATE #1.
- 5 PROVIDE CONCENTRIC VENTING KIT HEATER INDICATED UP THROUGH ROOF.



F3 HVAC PLAN - MAIN LEVEL
1/8" = 1'-0"

I hereby certify that this plan, specification or report was prepared by me or under my direct supervision and that I am a duly Licensed PROFESSIONAL ENGINEER under the laws of the State of MINNESOTA

License: KEVIN MARSHALL
Number: 23989 Date: 12/22/20

| Description | Revisions | |
|-------------|-----------|-----|
| | Date | Num |
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| | | |
| | | |
| | | |

Comm: 2022208
Date: 12/18/2020
Drawn: KC
Check: JM
North

HYDRONIC, HVAC, AND BOILER ROOM PLANS

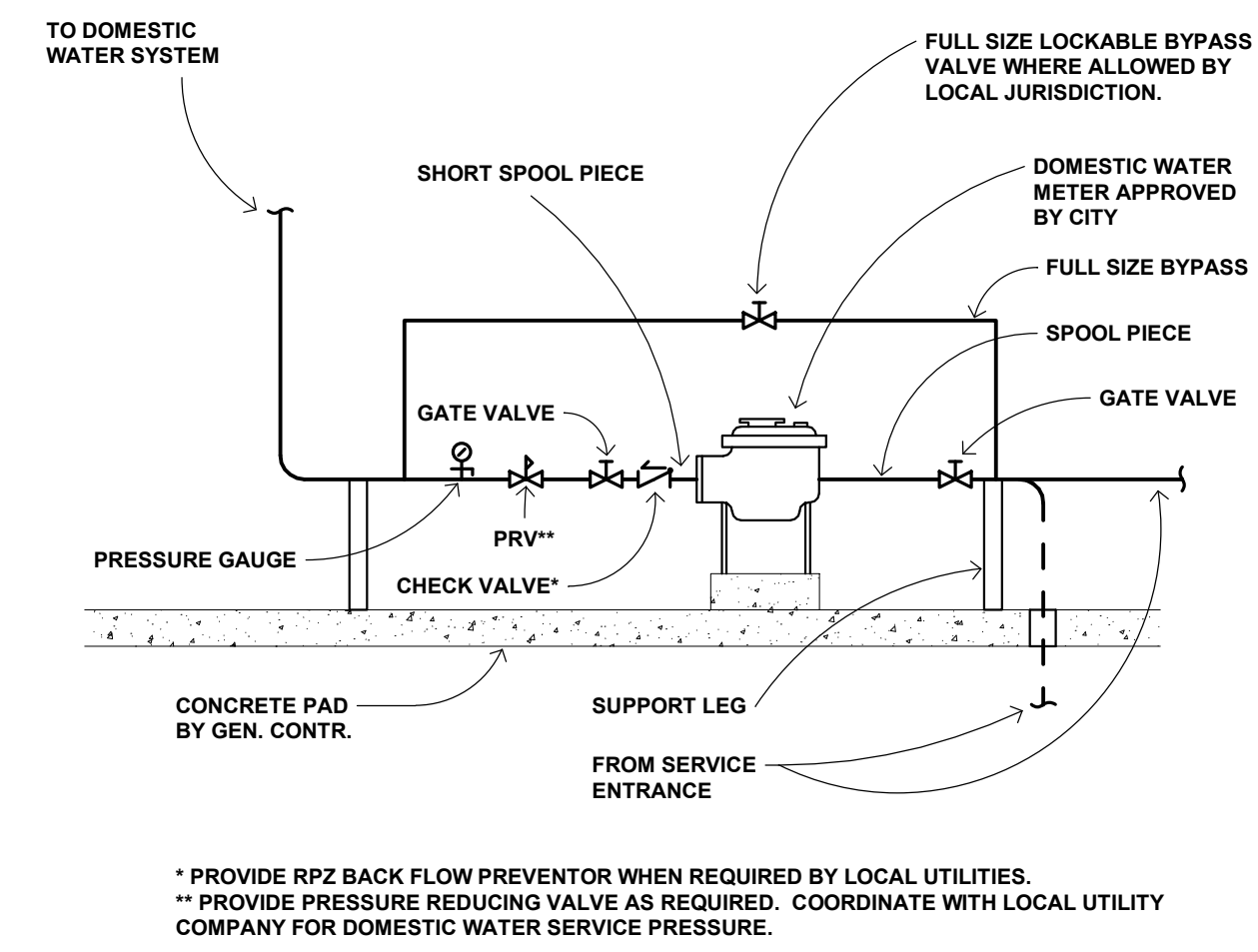
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M1.1

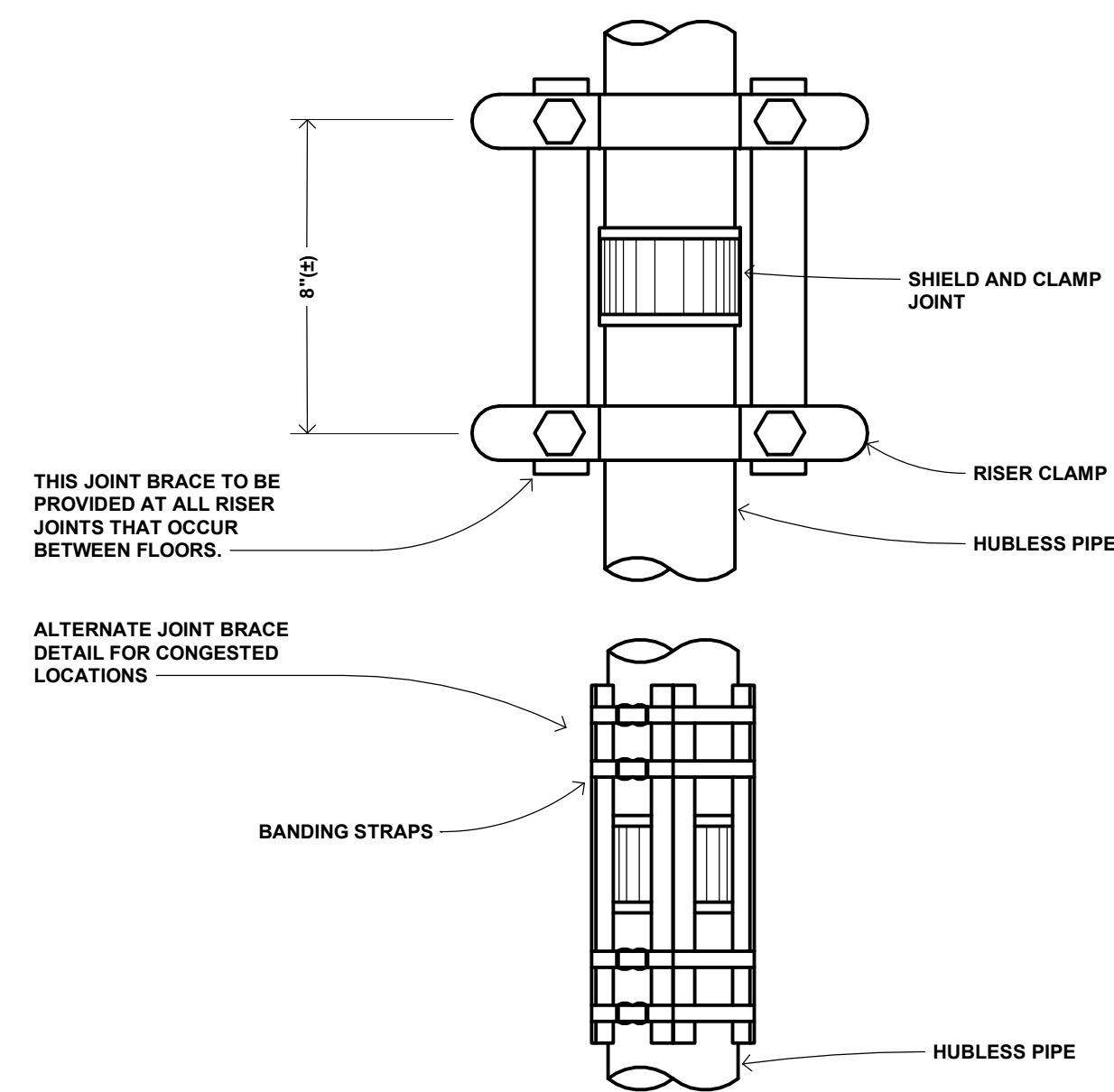
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NOT FOR CONSTRUCTION

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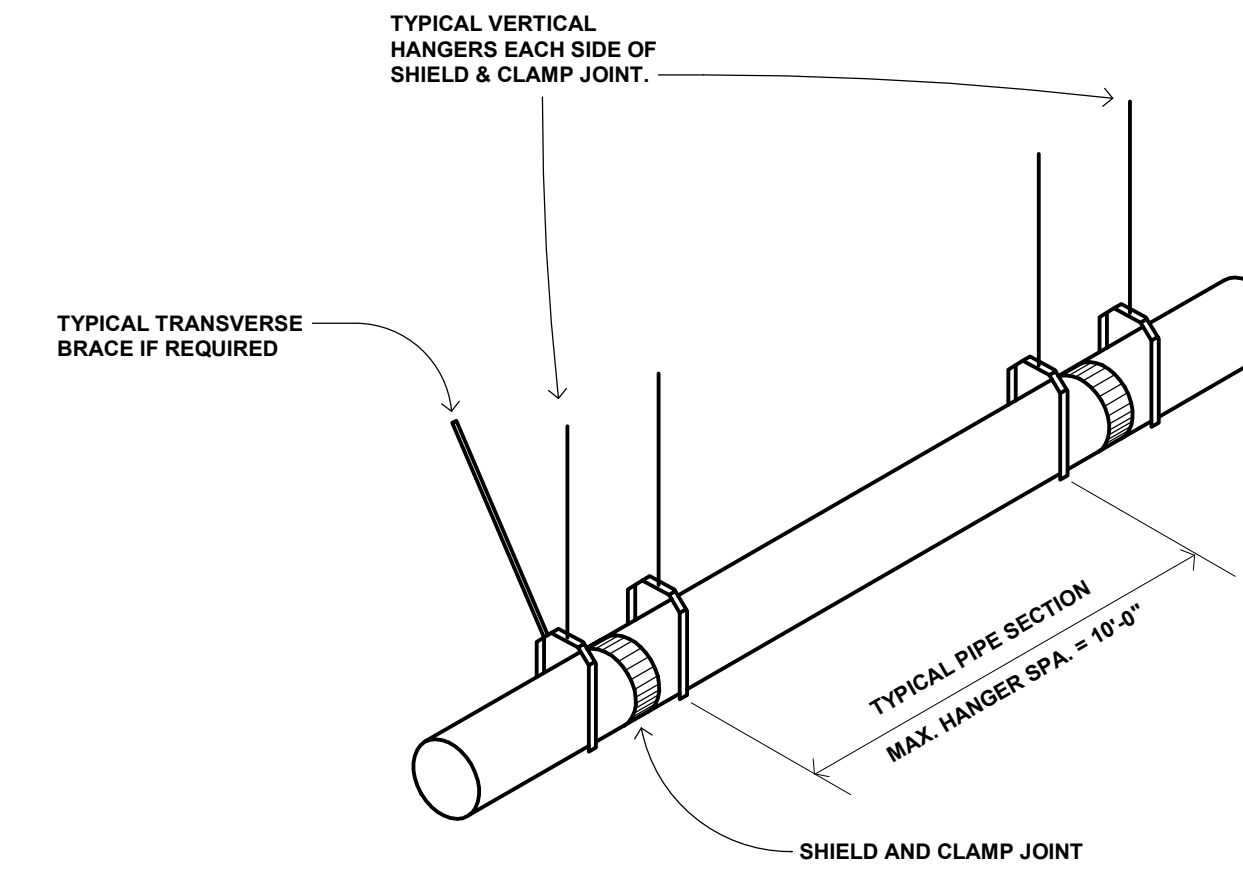
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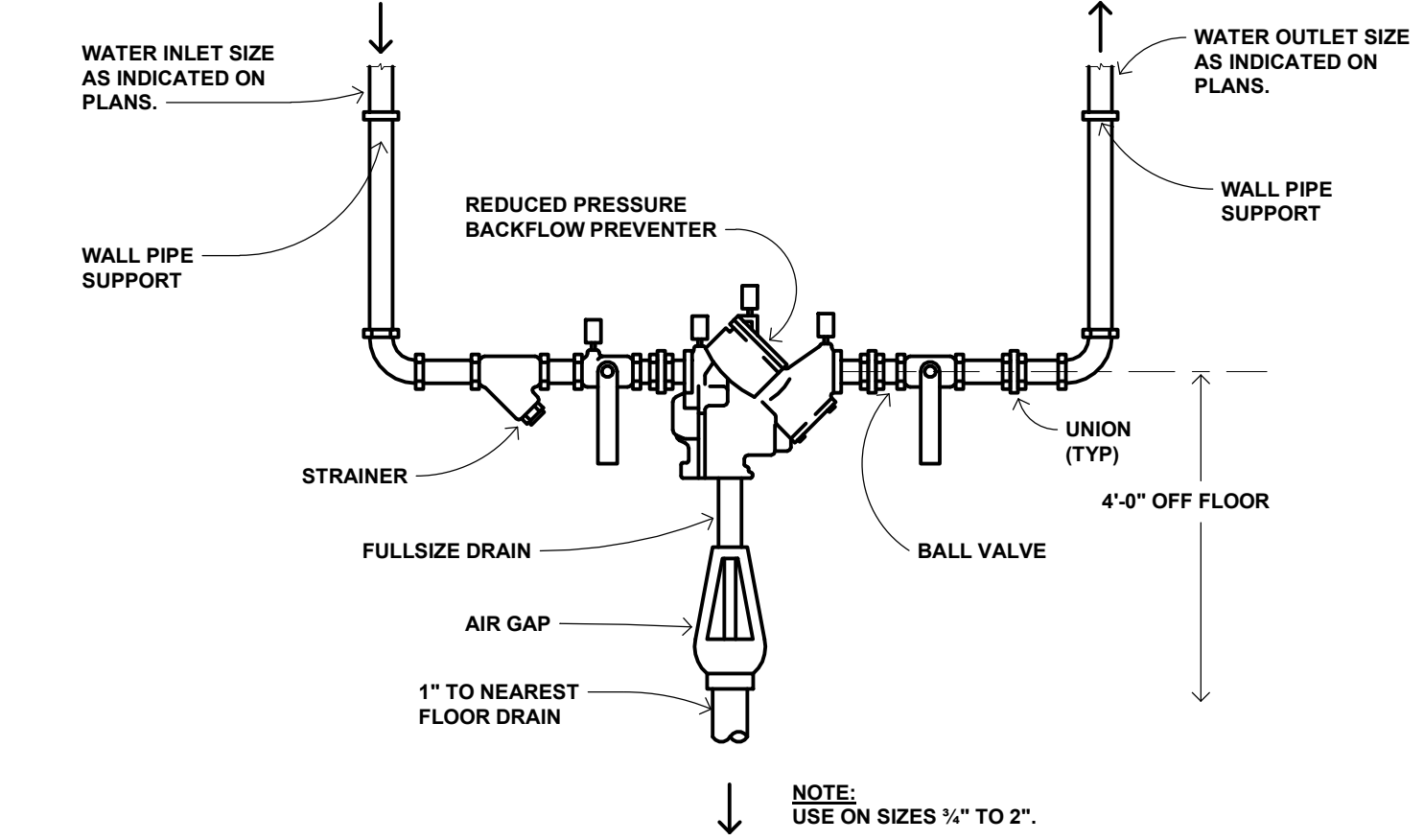
B1 DOMESTIC WATER METER PIPING DETAIL
NOT TO SCALE



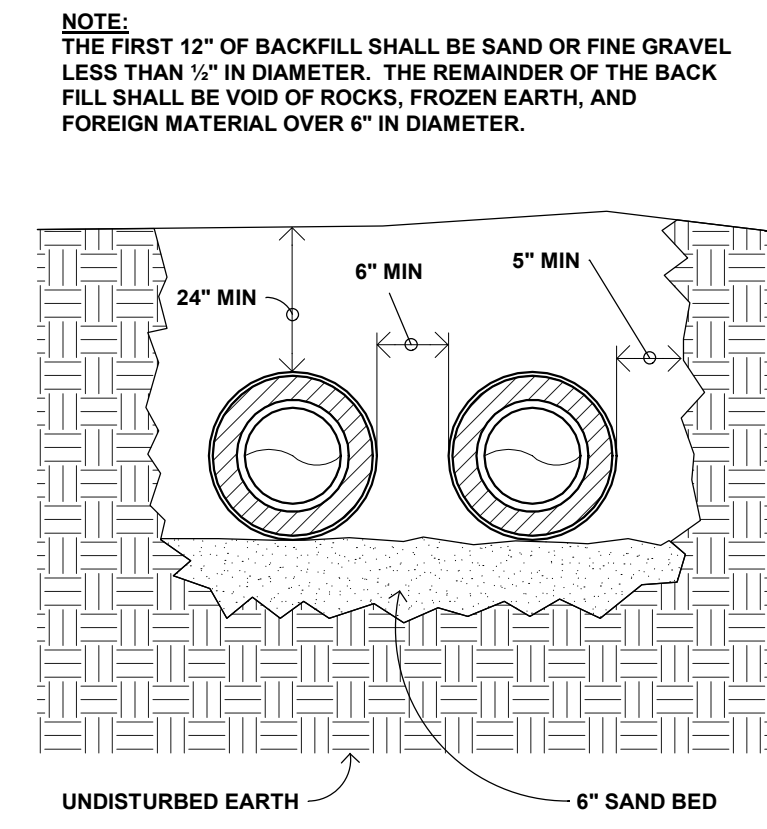
B3 HUBLESS PIPE RISER DETAIL
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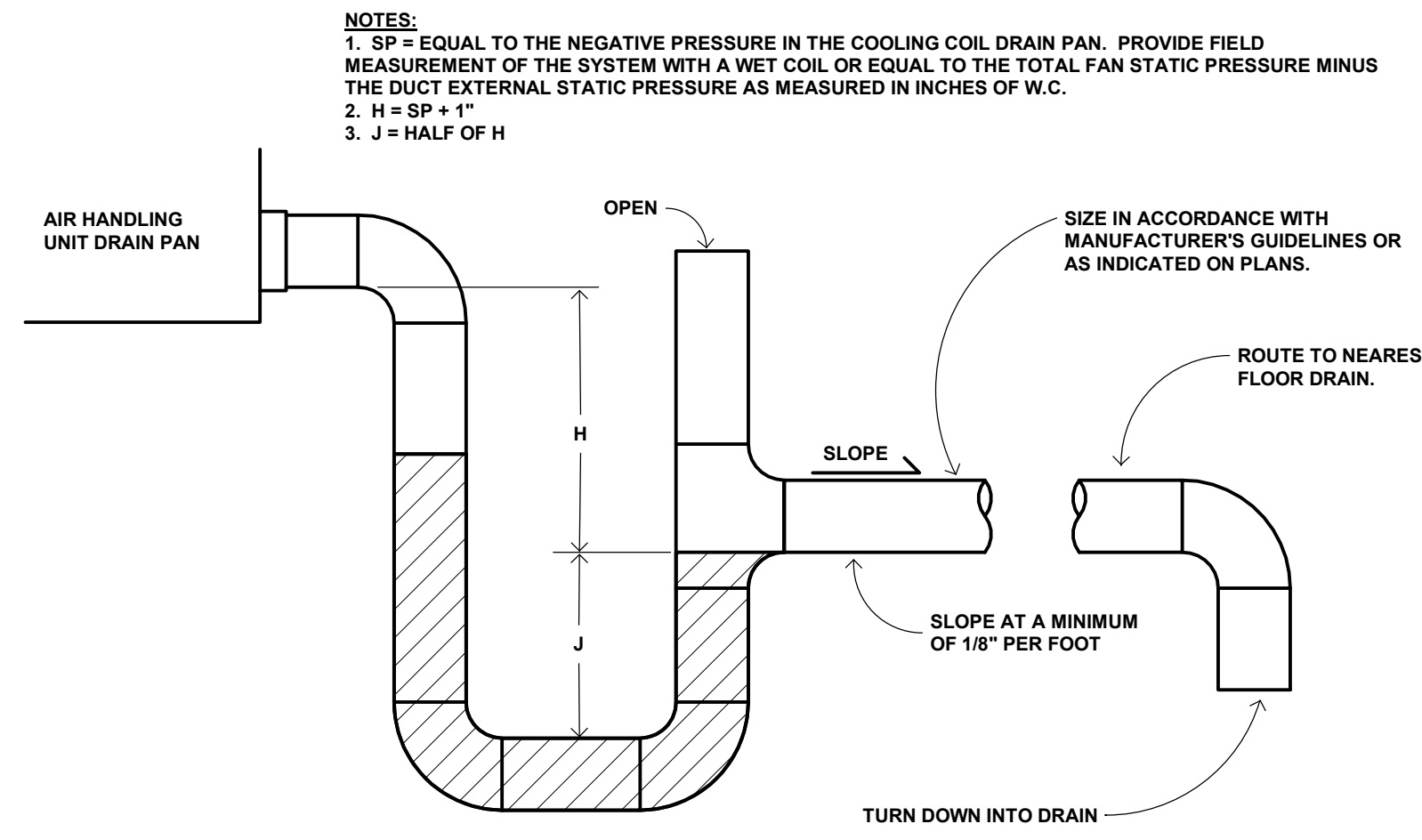
B5 HUBLESS PIPE INSTALLATION DETAIL
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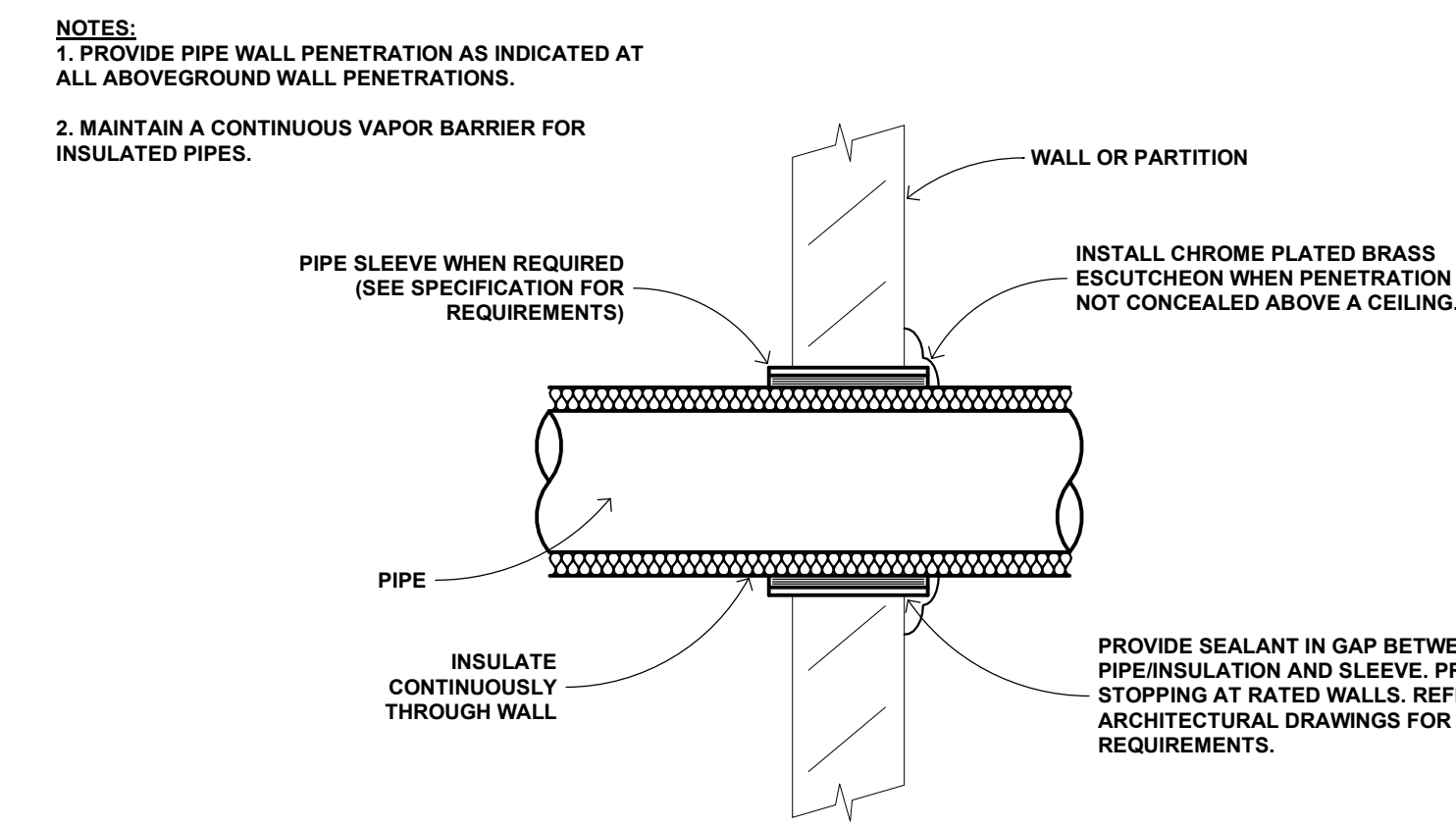
B7 REDUCED PRESSURE BACKFLOW PREVENTER DETAIL
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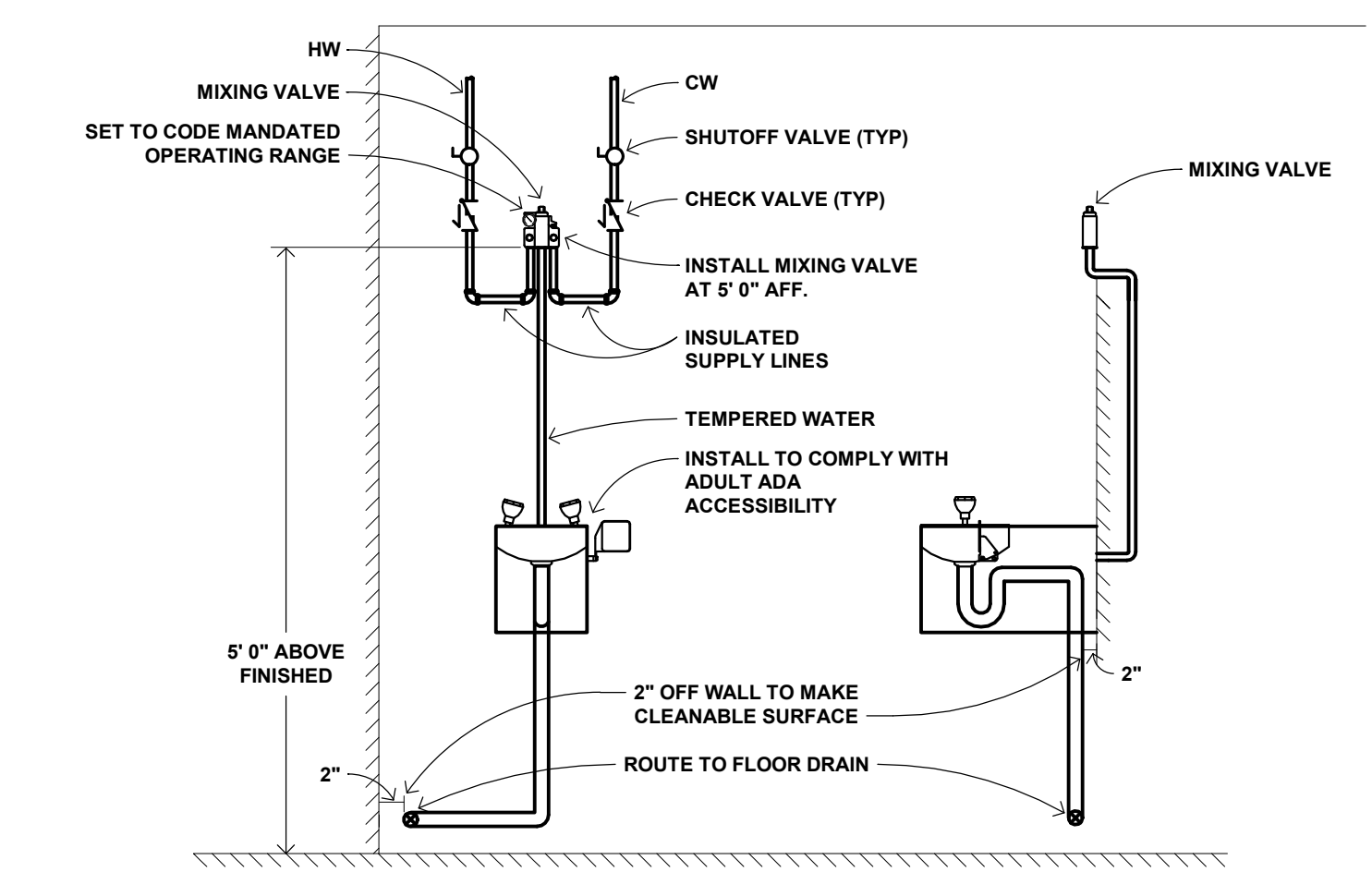
C1 UNDERGROUND PIPING DETAIL
NOT TO SCALE



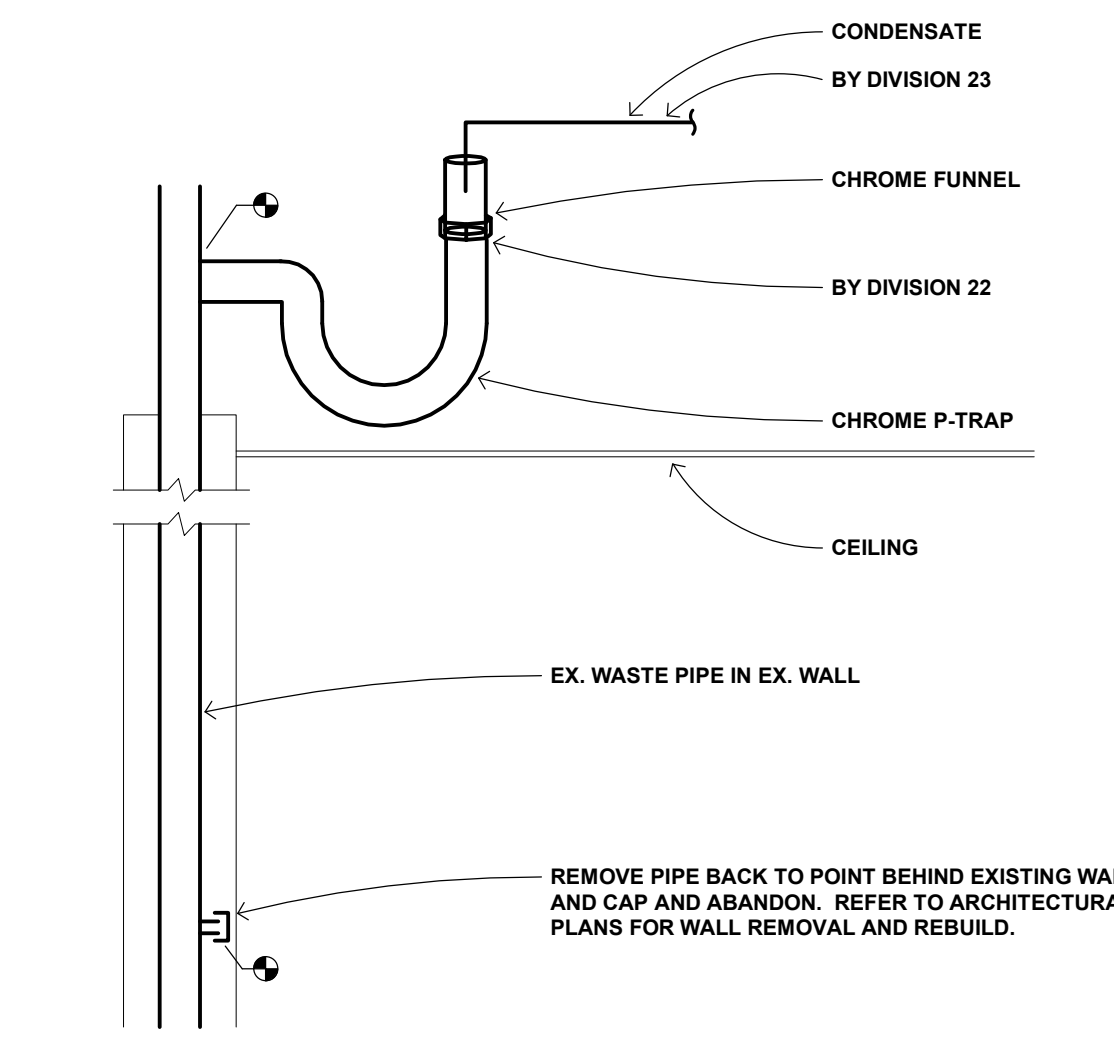
C3 DRAW-THRU CONDENSATE DRAIN
NOT TO SCALE



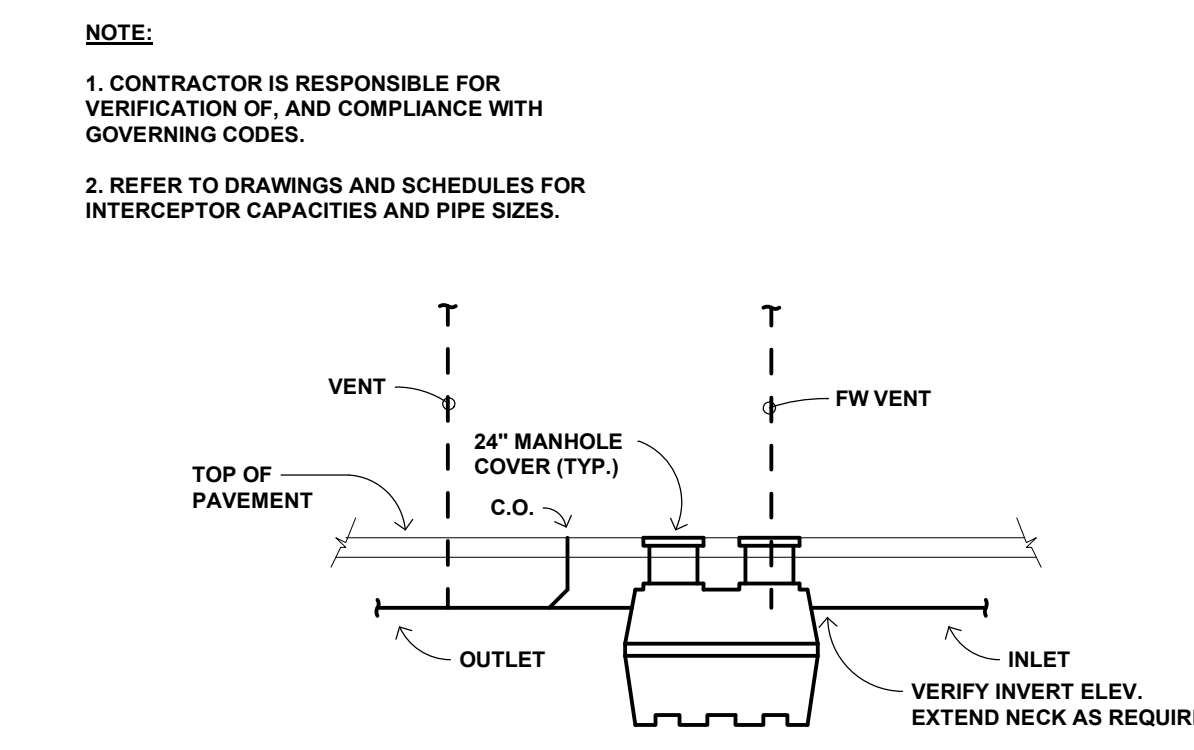
C5 PIPE WALL PENETRATION DETAIL
NOT TO SCALE



C7 EMERGENCY EYEWASH DETAIL
NOT TO SCALE



E5 CONDENSATE DRAIN DETAIL
NOT TO SCALE



E7 FLAMMABLE WASTE TRAP DETAIL
NOT TO SCALE

NEW PUBLIC WORKS FACILITY

24001 Fire Hall Lane
Rockville, MN 56369

CITY OF ROCKVILLE
229 Broadway Street East
Rockville, MN 56369



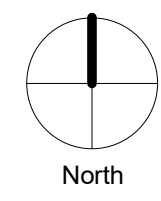
WOLD ARCHITECTS AND ENGINEERS
332 Minnesota Street, Suite W2000
Saint Paul, MN 55101
woldac.com | 651 227 7773

I hereby certify that this plan, specification or report was prepared by me or under my direct supervision and that I am a duly Licensed PROFESSIONAL ENGINEER under the laws of the State of MINNESOTA

License Number: KEVIN MARSHALL 23989 Date: 12/22/20

| Description | Revisions | |
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Comm: 2022208
Date: 12/18/2020
Drawn: KC
Check: JM



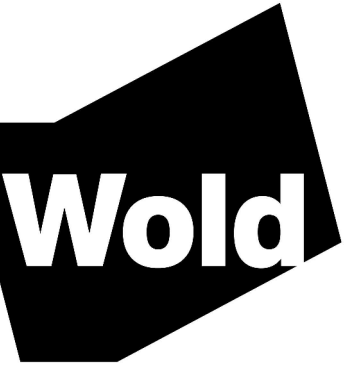
DETAILS

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

M2.0

95% CD / OWNER REVIEW SET
NOT FOR CONSTRUCTION

M

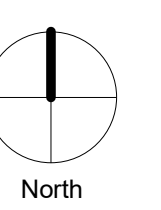


I hereby certify that this plan, specification or report was prepared by me or under my direct supervision and that I am a duly Licensed PROFESSIONAL ENGINEER under the laws of the State of MINNESOTA

License Number: **23989** Date: **12/22/20**
Name: **KEVIN MARSHALL**

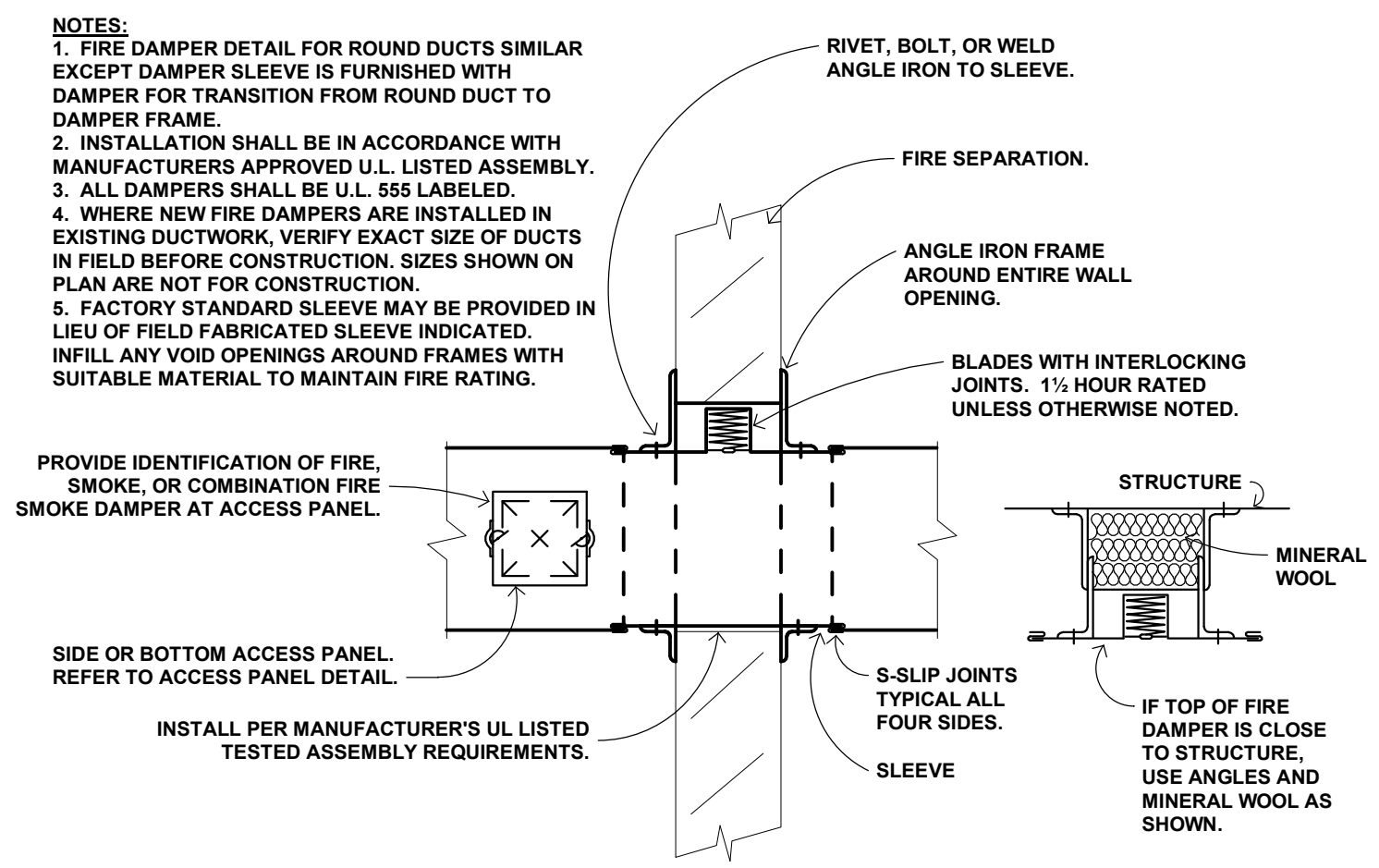
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Date: **12/18/2020**
Drawn: **KC**
Check: **JM**

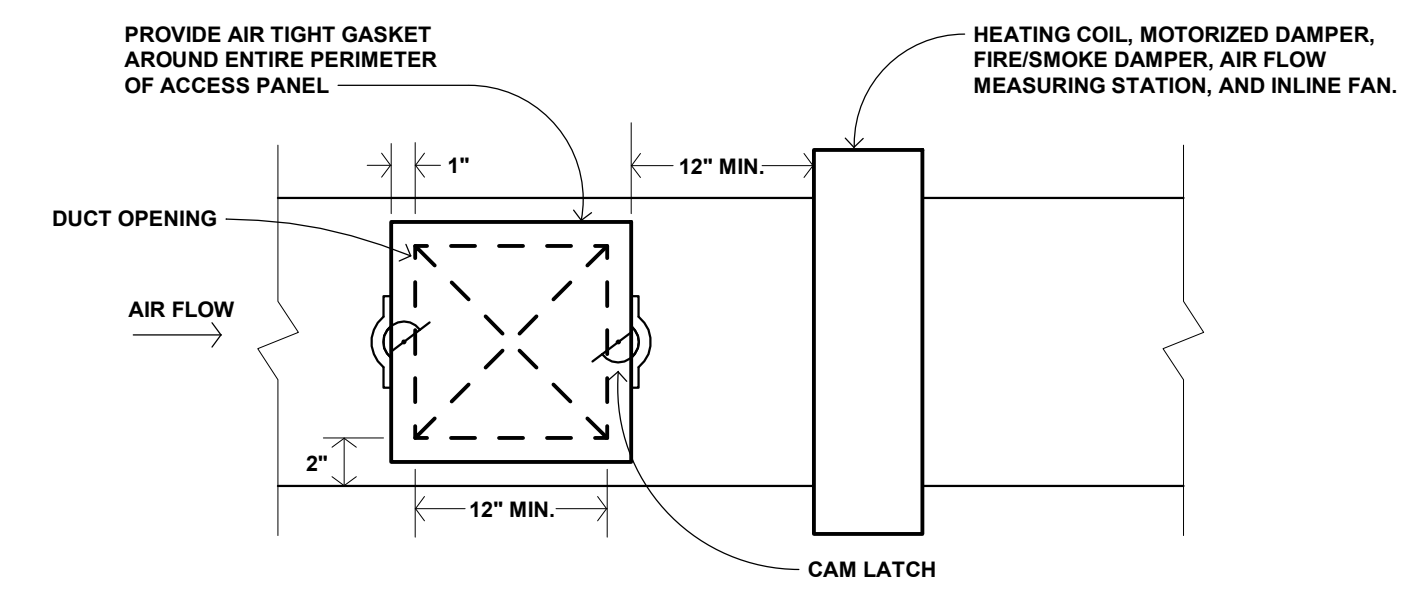


DETAILS

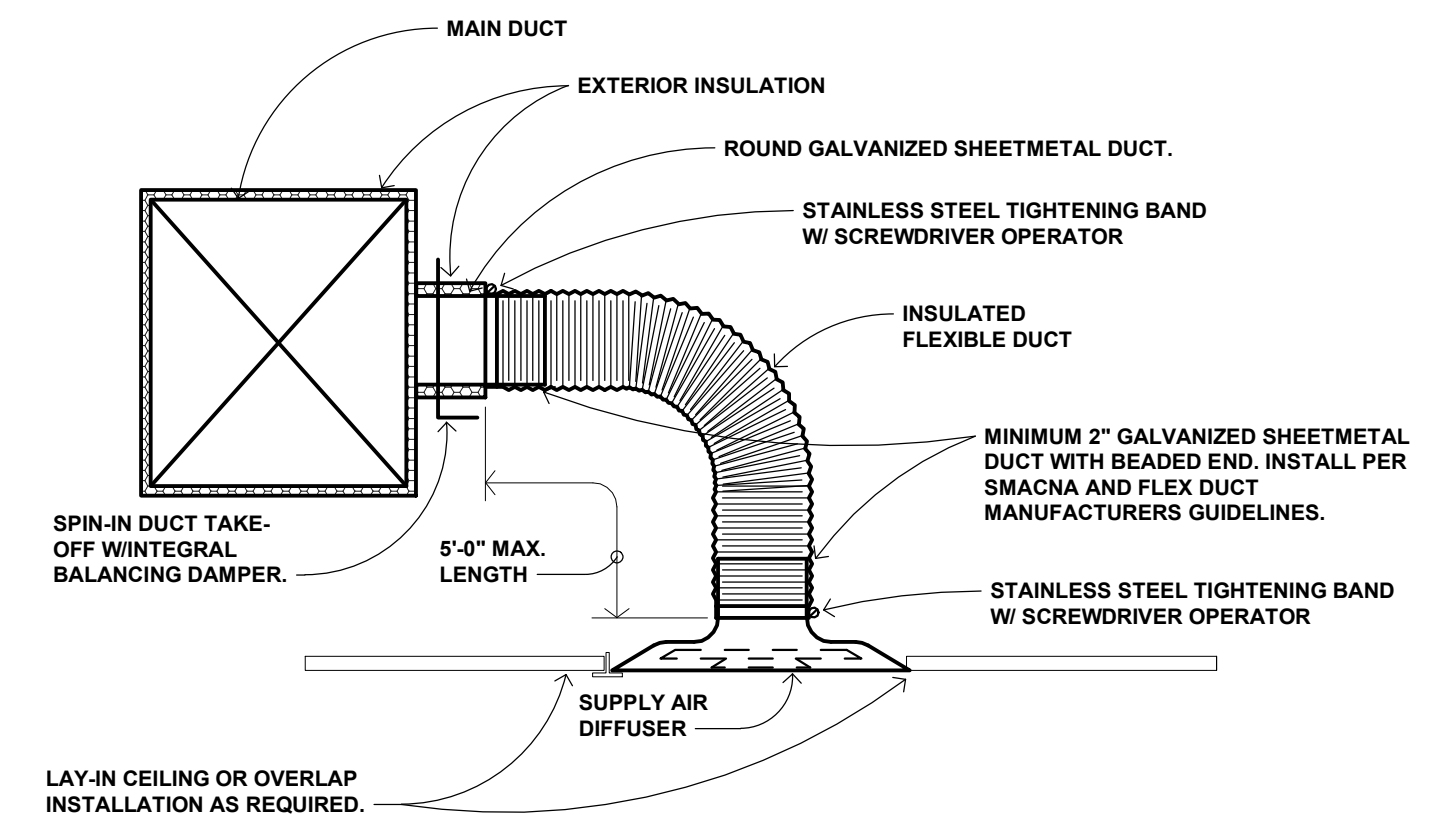
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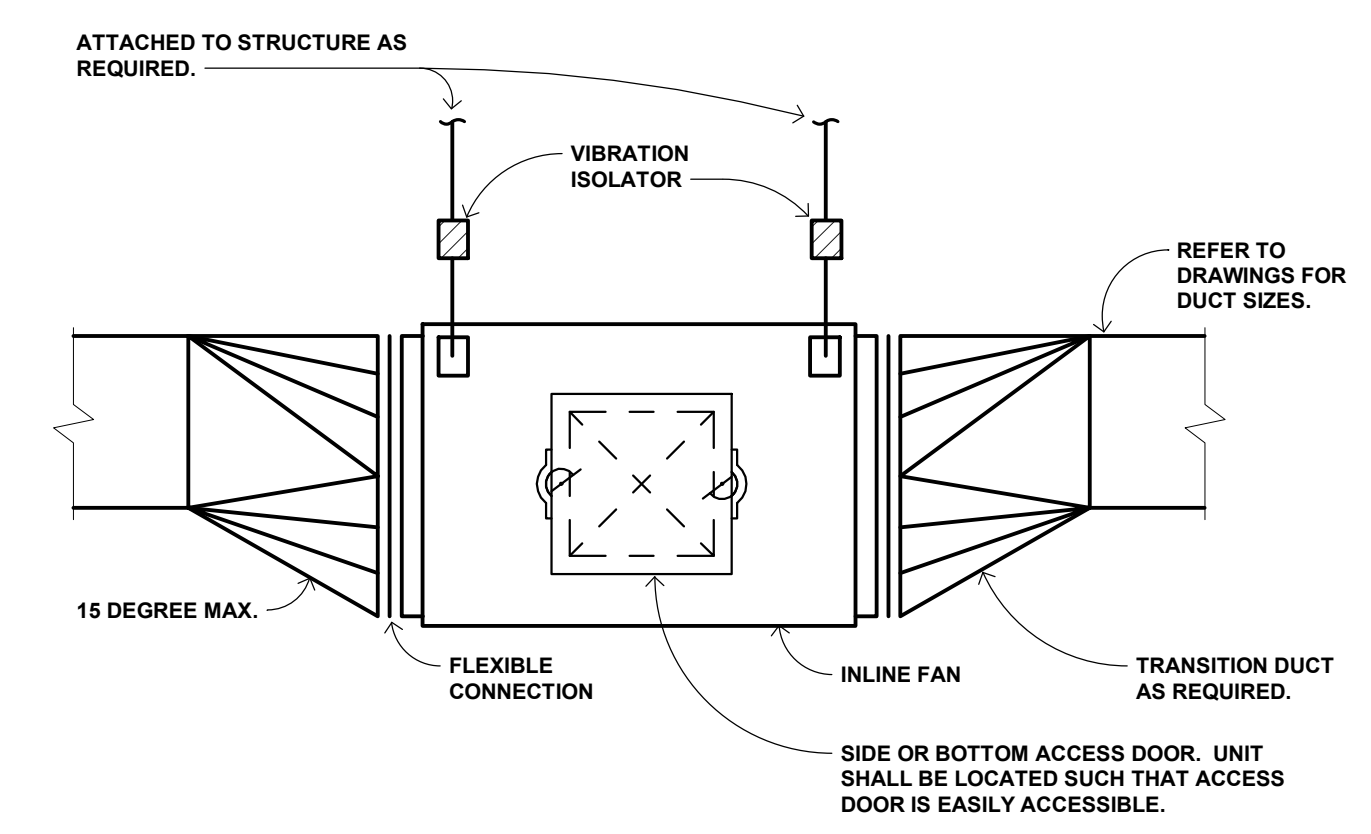
B7 FIRE DAMPER AT WALL DETAIL
NOT TO SCALE



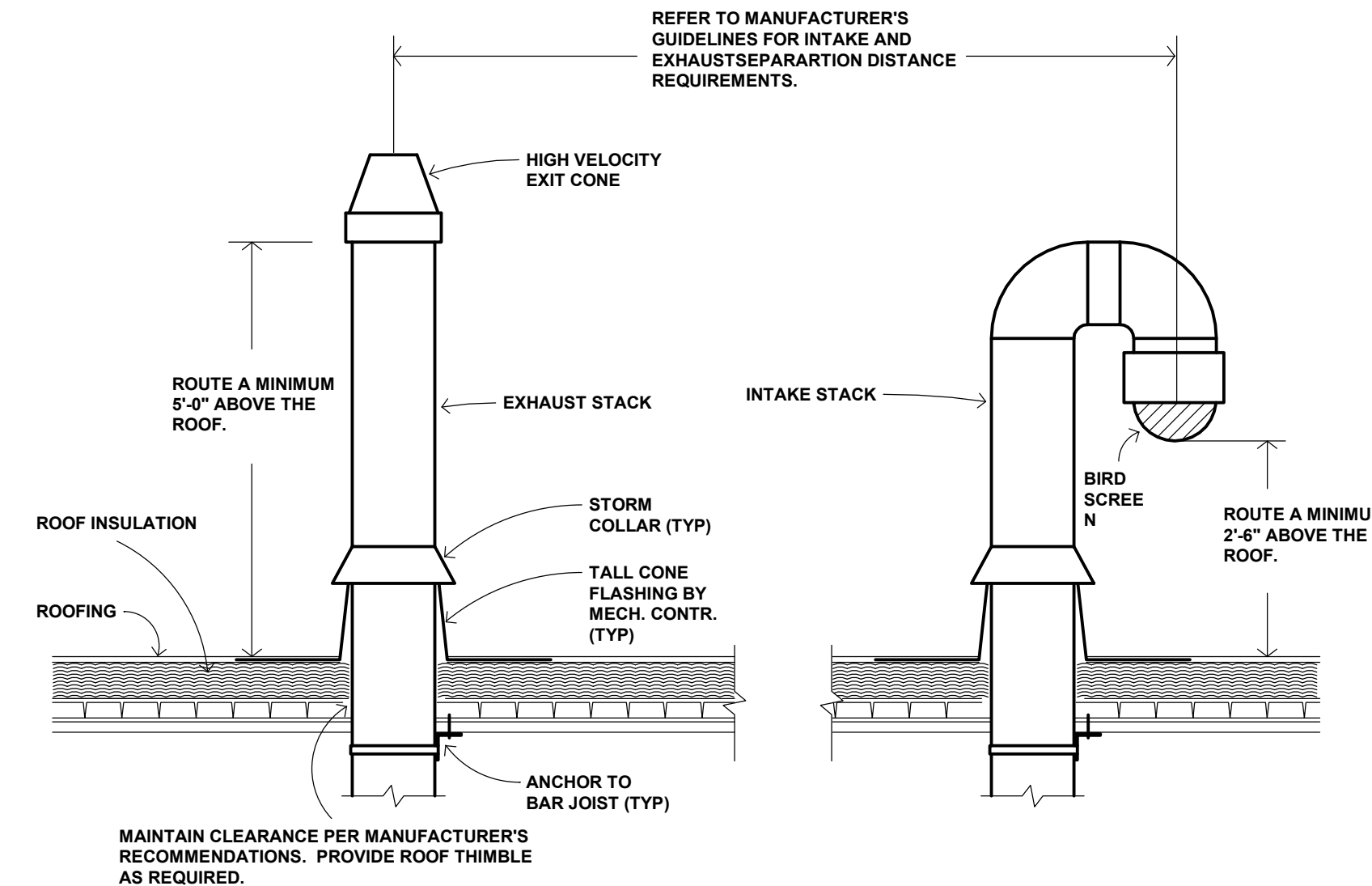
B4 ACCESS PANEL DETAIL
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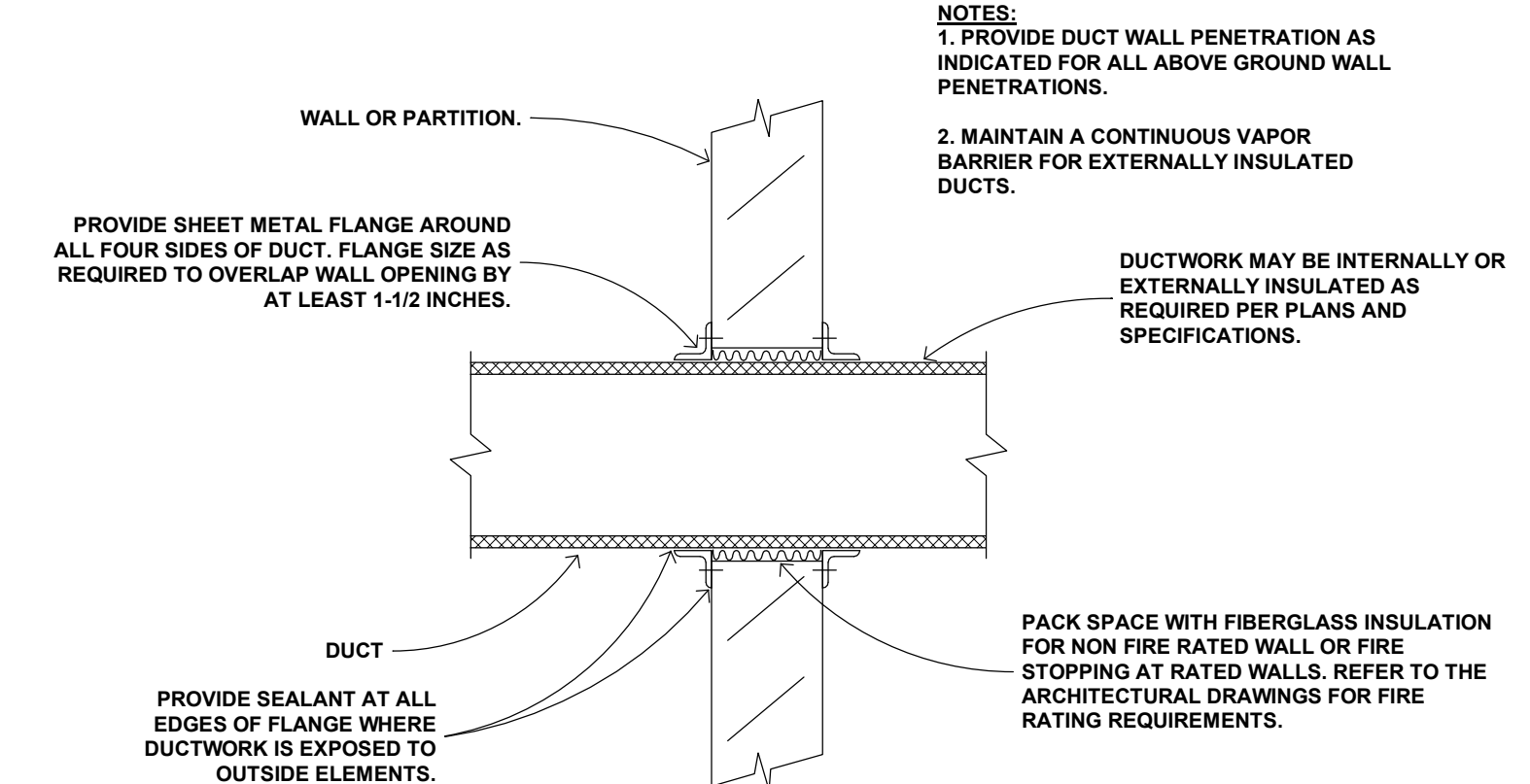
B3 FLEXIBLE DUCT CONNECTION DETAIL
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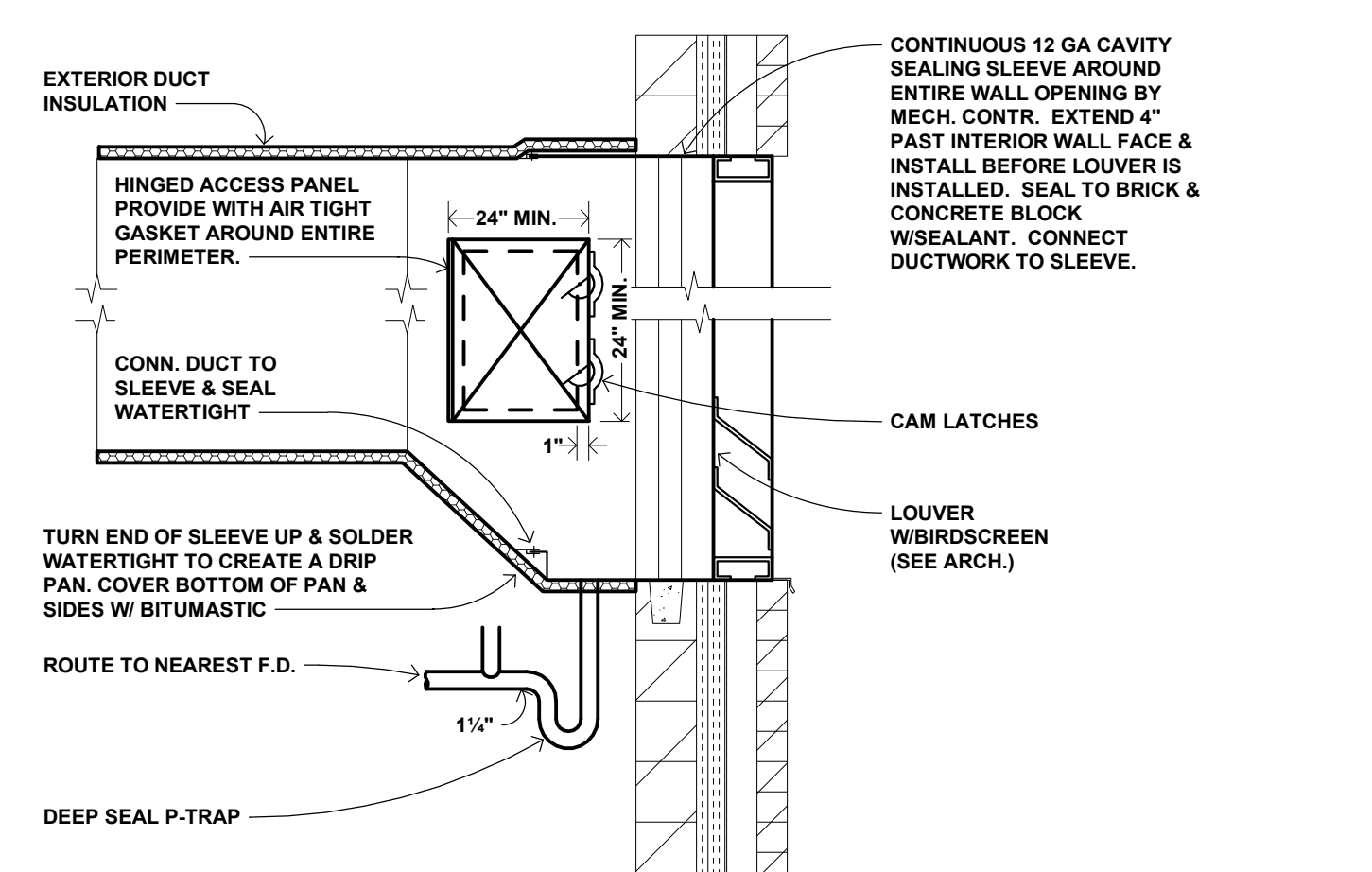
B1 INLINE FAN DETAIL
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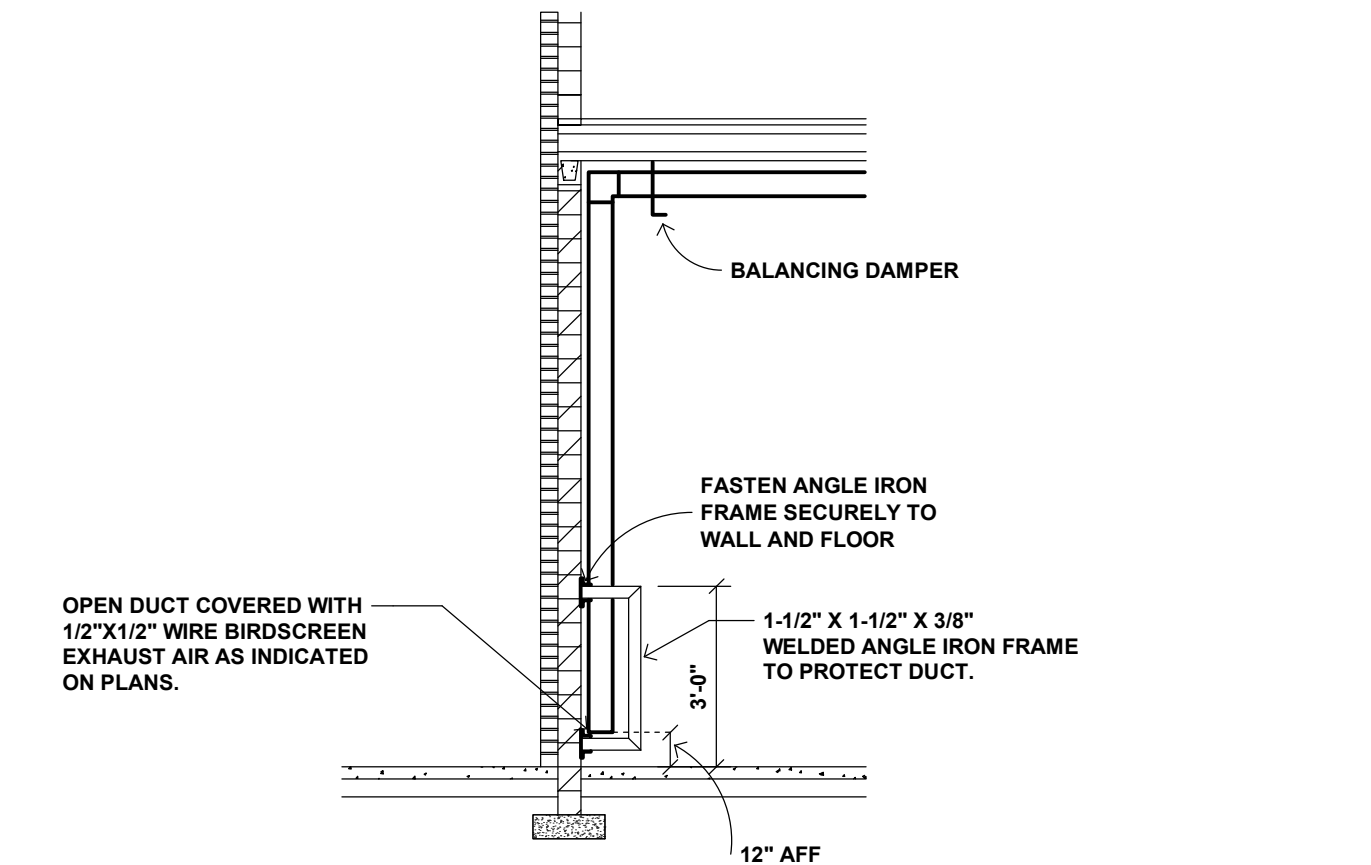
C7 HIGH EFFICIENCY BOILER EXHAUST/INTAKE VENT DETAIL
NOT TO SCALE



C4 DUCT WALL PENETRATION DETAIL
NOT TO SCALE



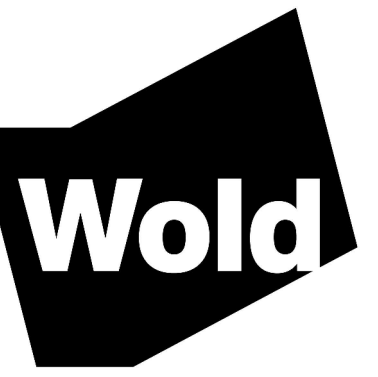
C3 LOUVER INSTALLATION DETAIL
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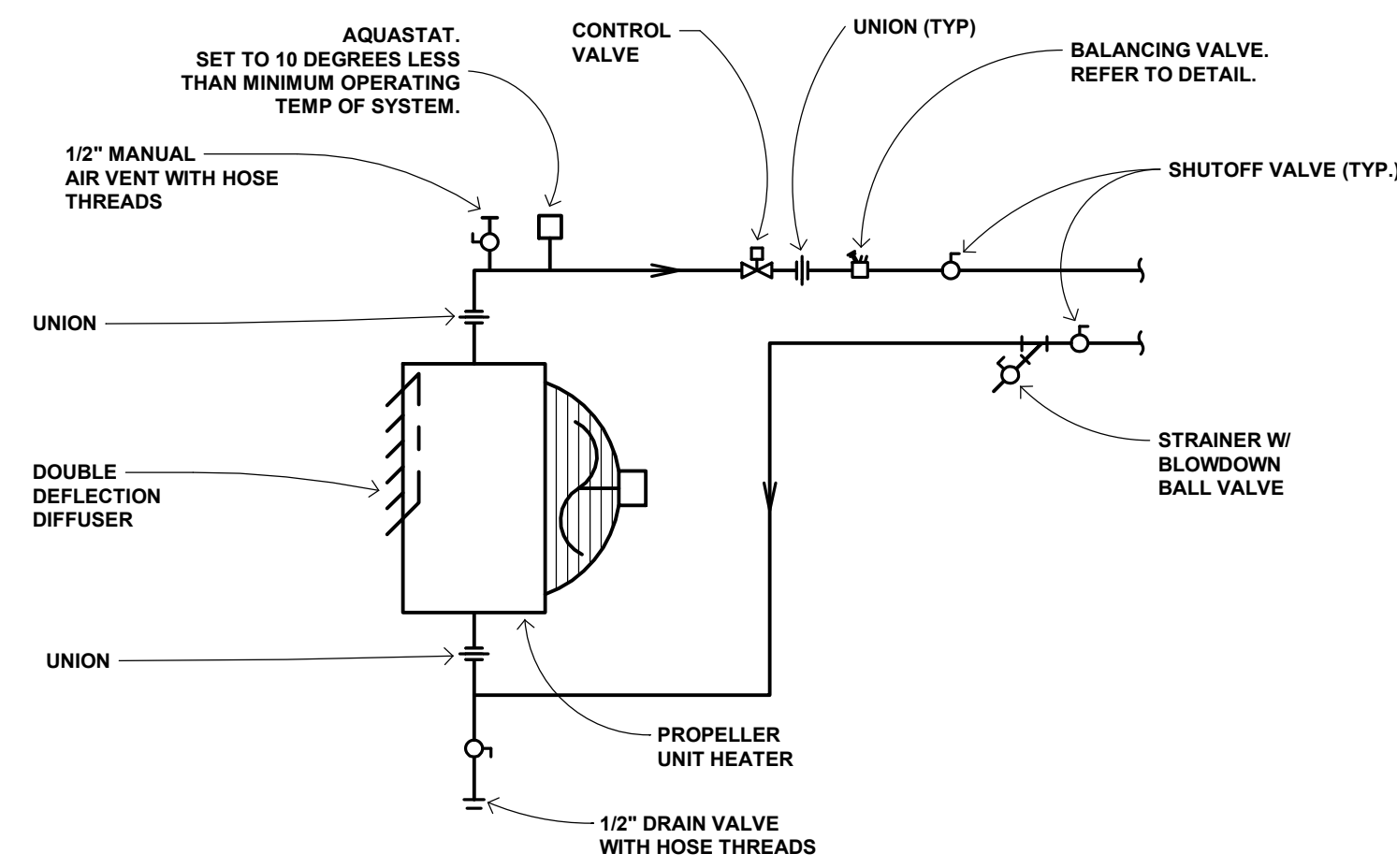
C1 GARAGE FLOOR EXHAUST DETAIL
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MN

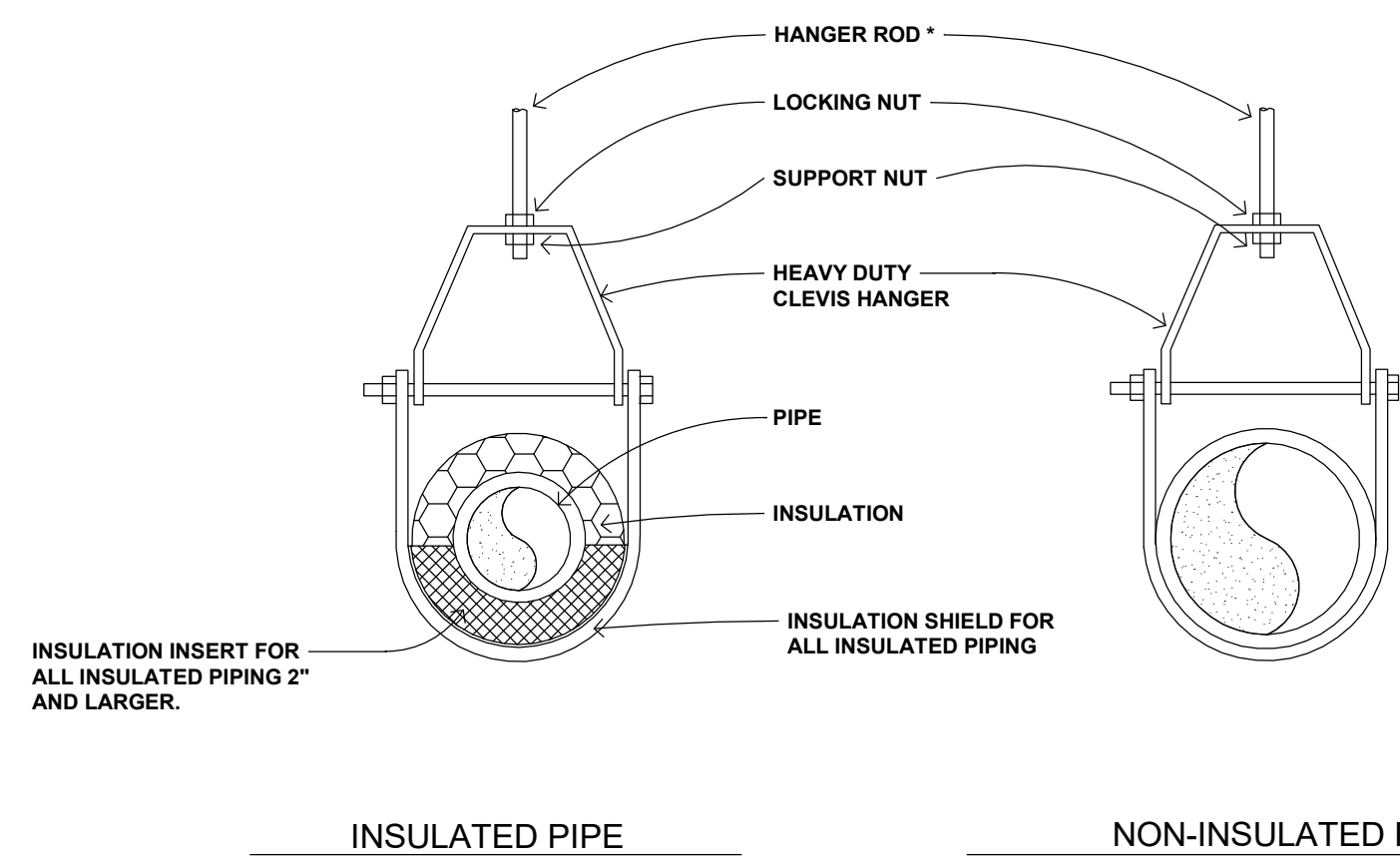
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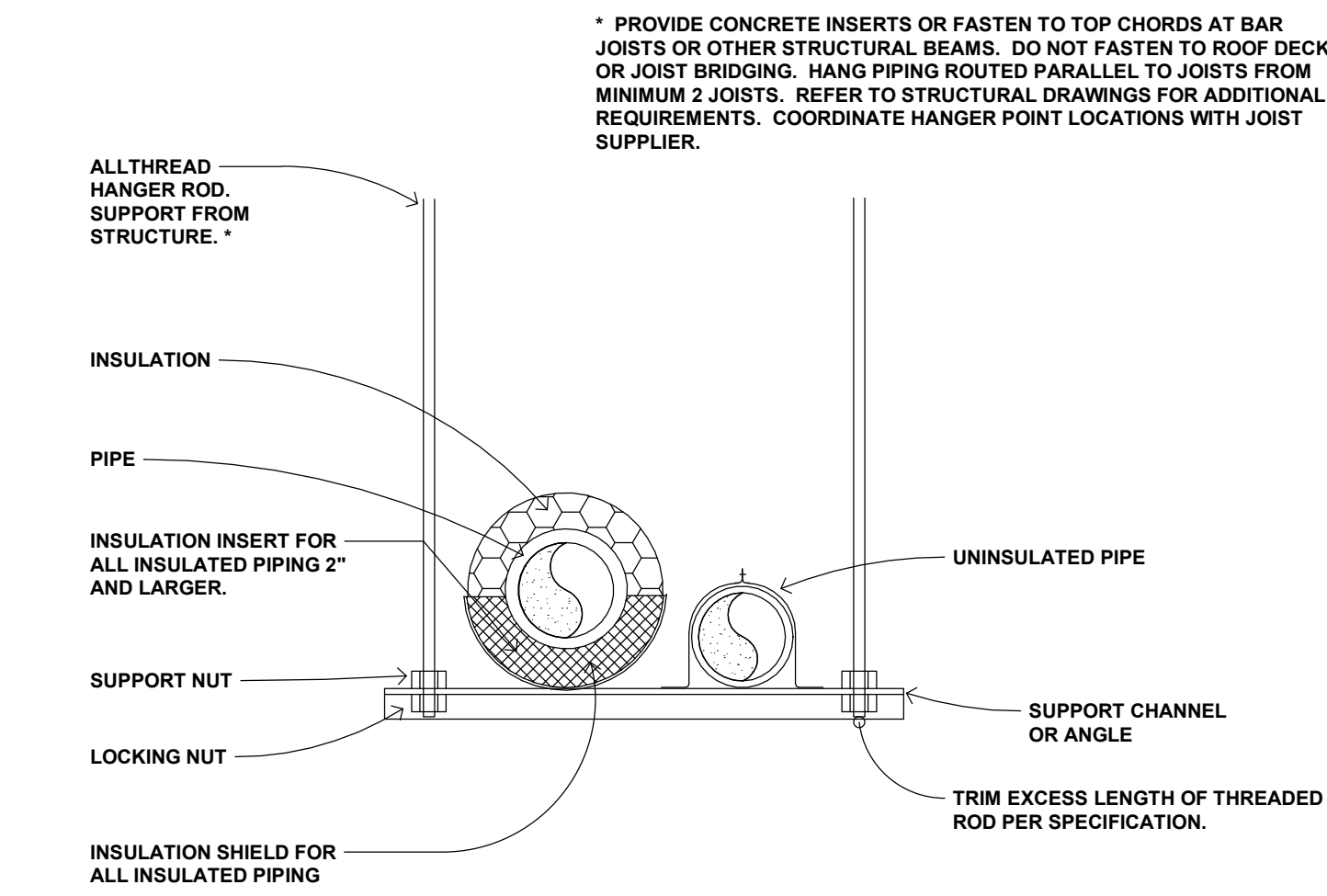
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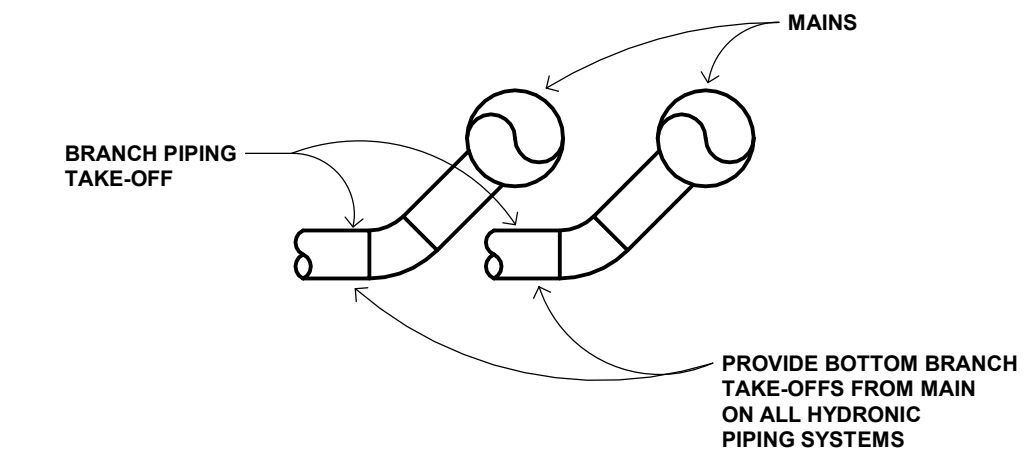
B1 PROPELLER UNIT HEATER PIPING DETAIL
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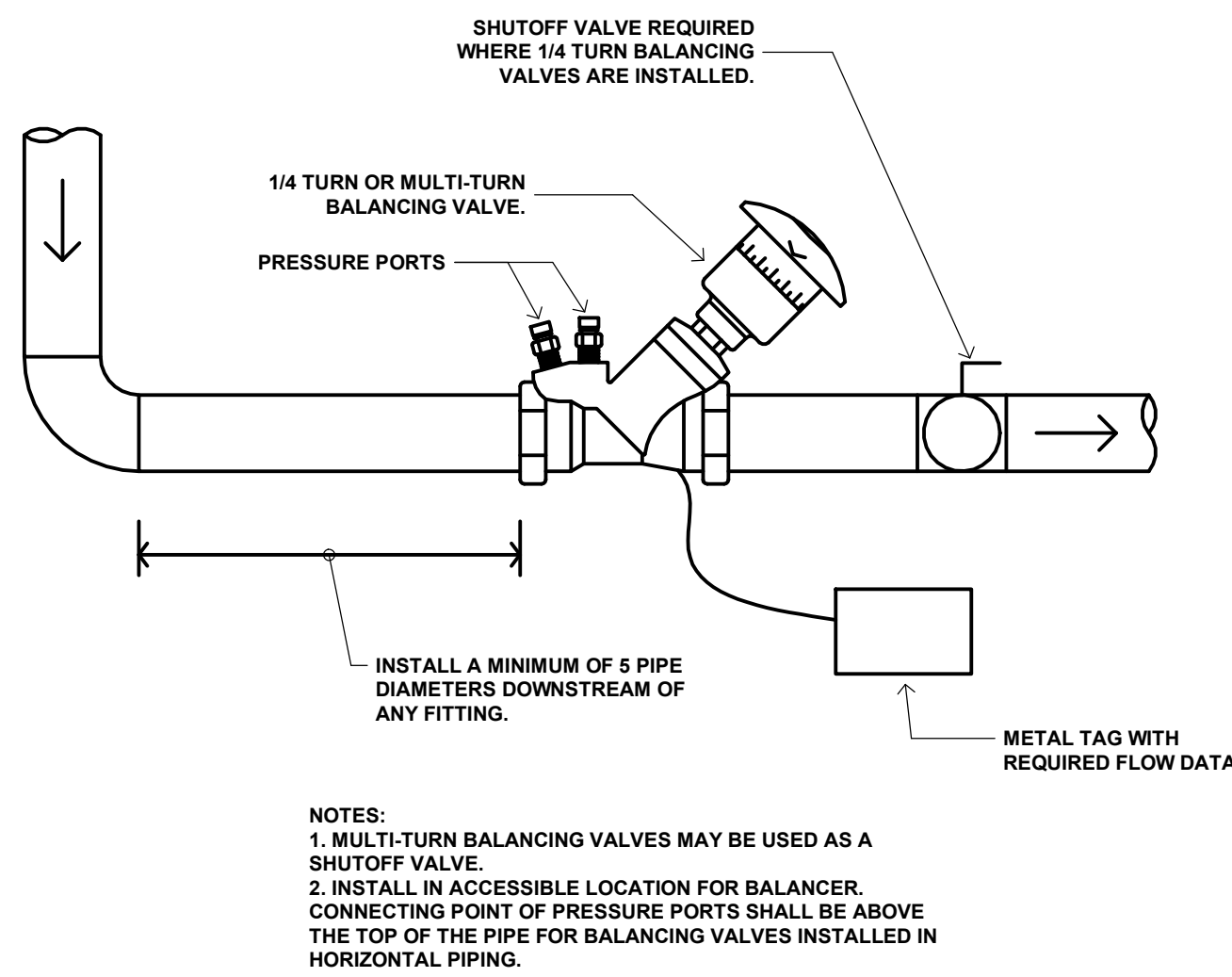
B3 CLEVIS PIPE HANGER DETAIL
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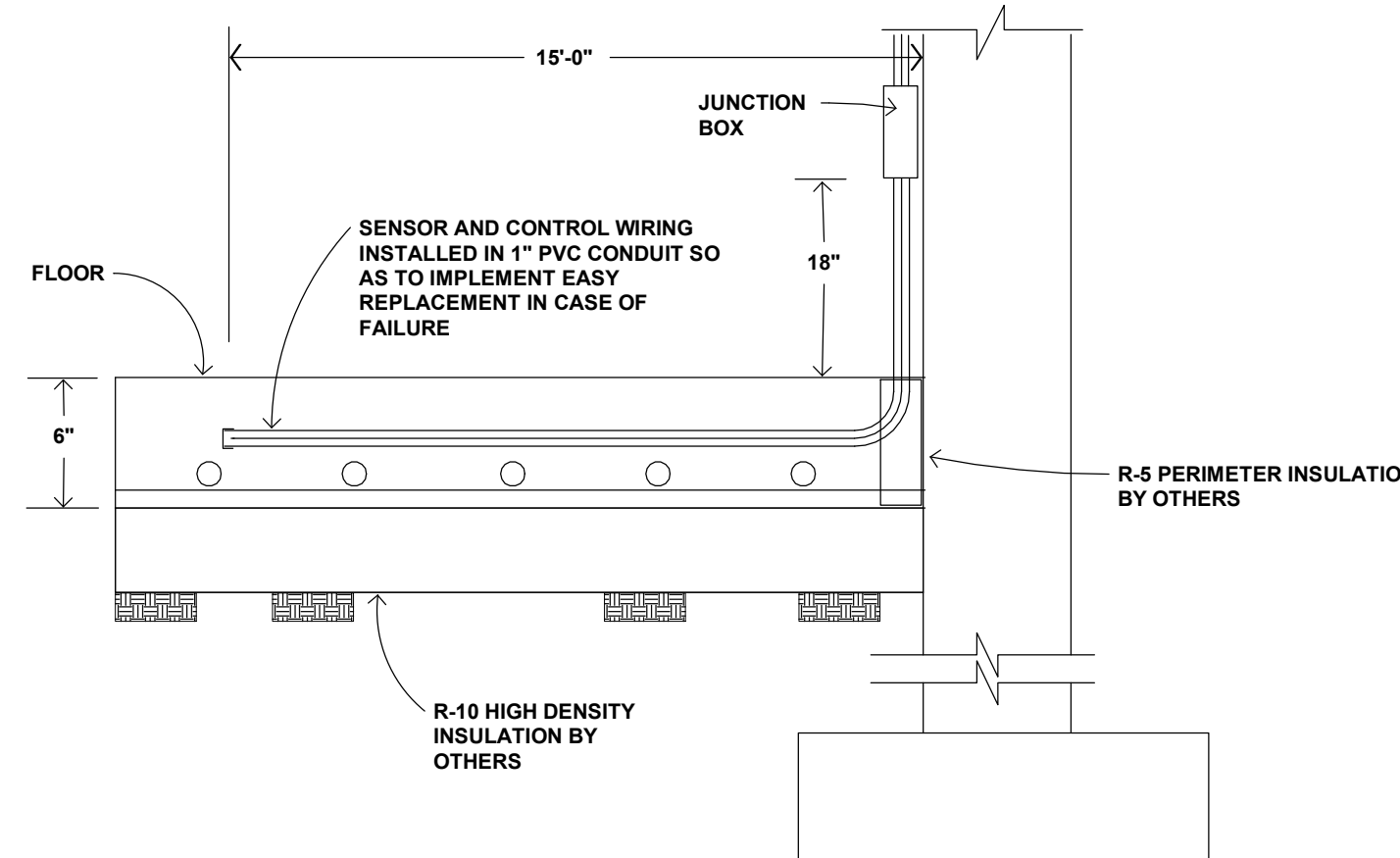
B5 TRAPEZE PIPE HANGER DETAIL
NOT TO SCALE



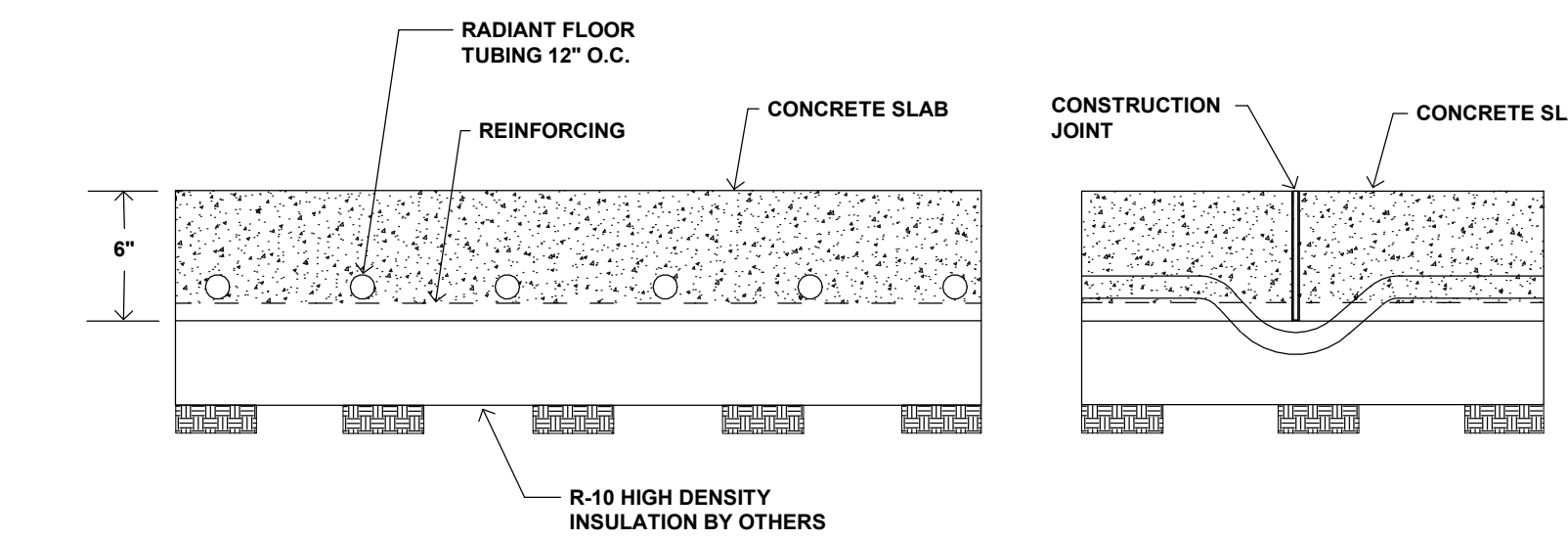
B7 HYDRONIC BRANCH PIPING TAKE-OFF DETAIL
NOT TO SCALE



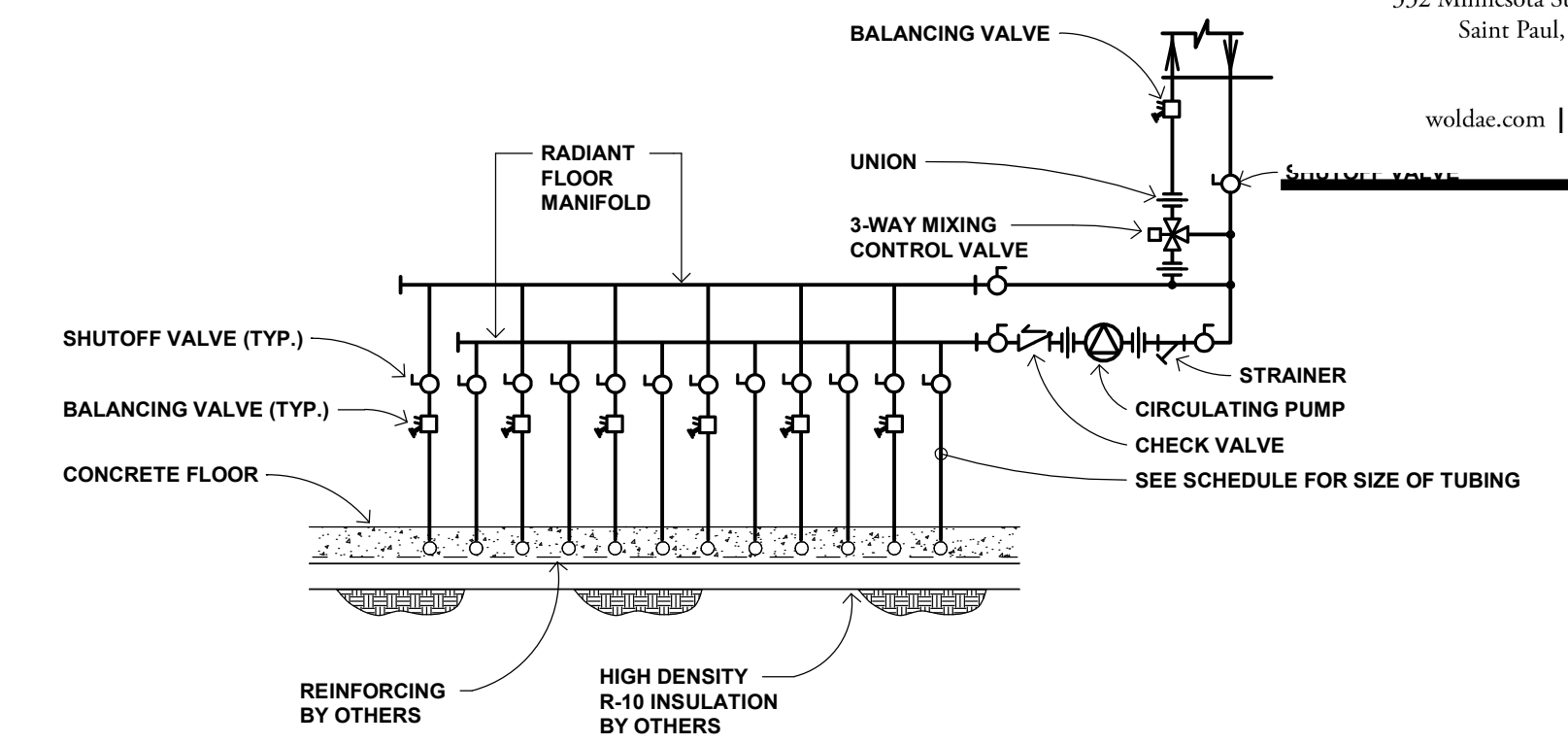
C1 BALANCING VALVE DETAIL
NOT TO SCALE



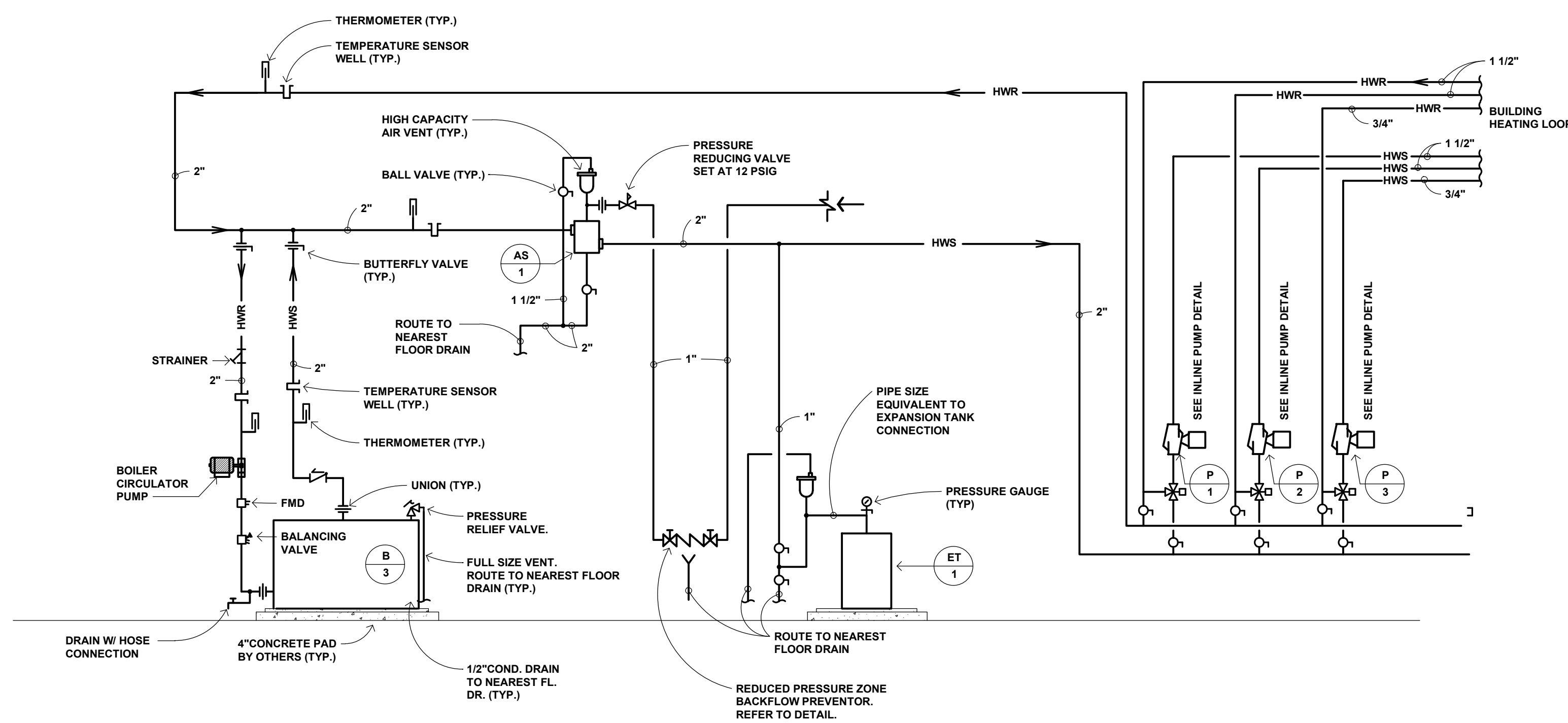
C3 RADIANT FLOOR SENSOR INSTALLATION DETAIL
NOT TO SCALE



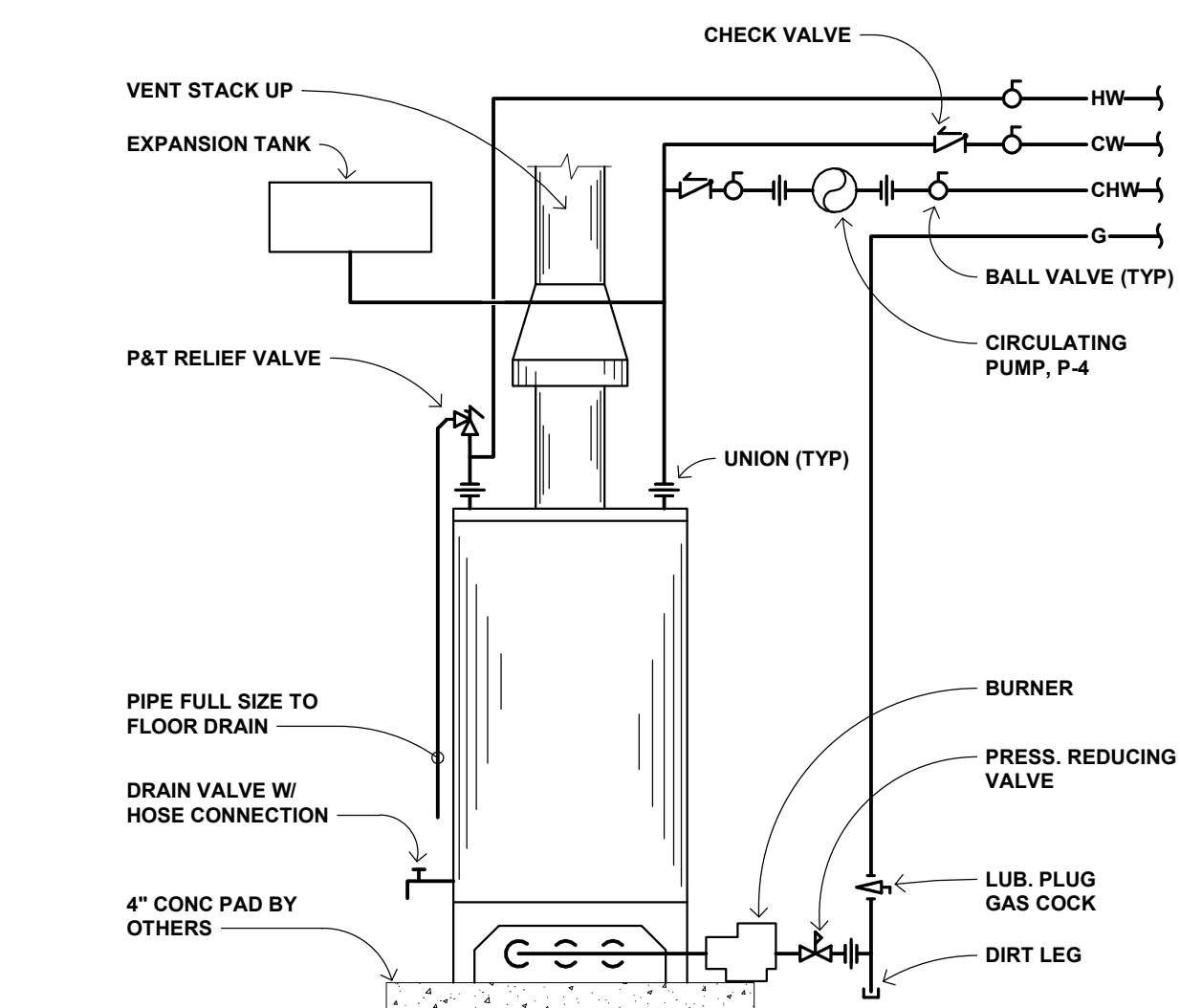
C5 RADIANT FLOOR SLAB DETAIL
NOT TO SCALE



C7 TYPICAL RADIANT FLOOR MANIFOLD DETAIL
NOT TO SCALE



E1 HYDRONIC HEATING WATER PIPING SCHEMATIC - ALTERNATE #1
NOT TO SCALE



E5 GAS FIRED DOMESTIC WATER HEATER PIPING DETAIL
NOT TO SCALE

I hereby certify that this plan, specification or report was prepared by me or under my direct supervision and that I am a duly Licensed PROFESSIONAL ENGINEER under the laws of the State of MINNESOTA

License: KEVIN MARSHALL
Number: 23989 Date: 12/22/20

| Description | Revisions | |
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Drawn: Author
Check: Checker
North

DETAILS AND SCHEMATIC

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

95% CD / OWNER REVIEW SET
NOT FOR CONSTRUCTION

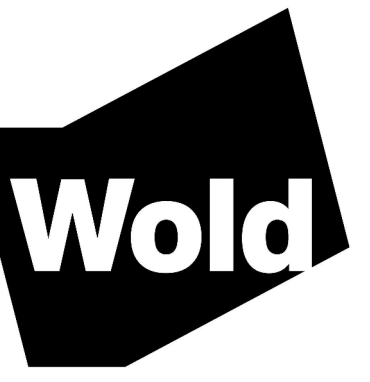
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NEW PUBLIC WORKS FACILITY

24001 Fire Hall Lane
Rockville, MN 56369

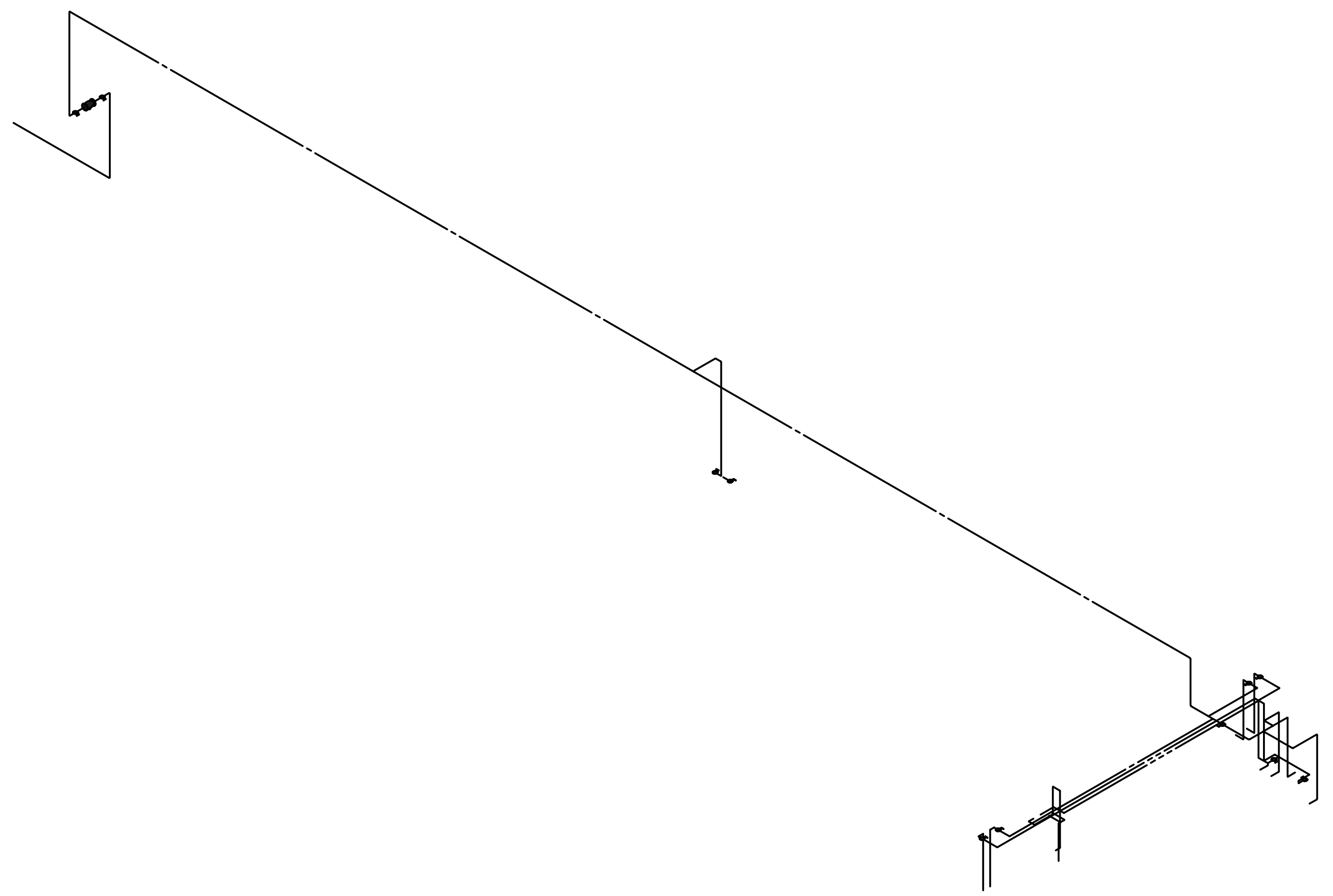
CITY OF ROCKVILLE
229 Broadway Street East
Rockville, MN 56369



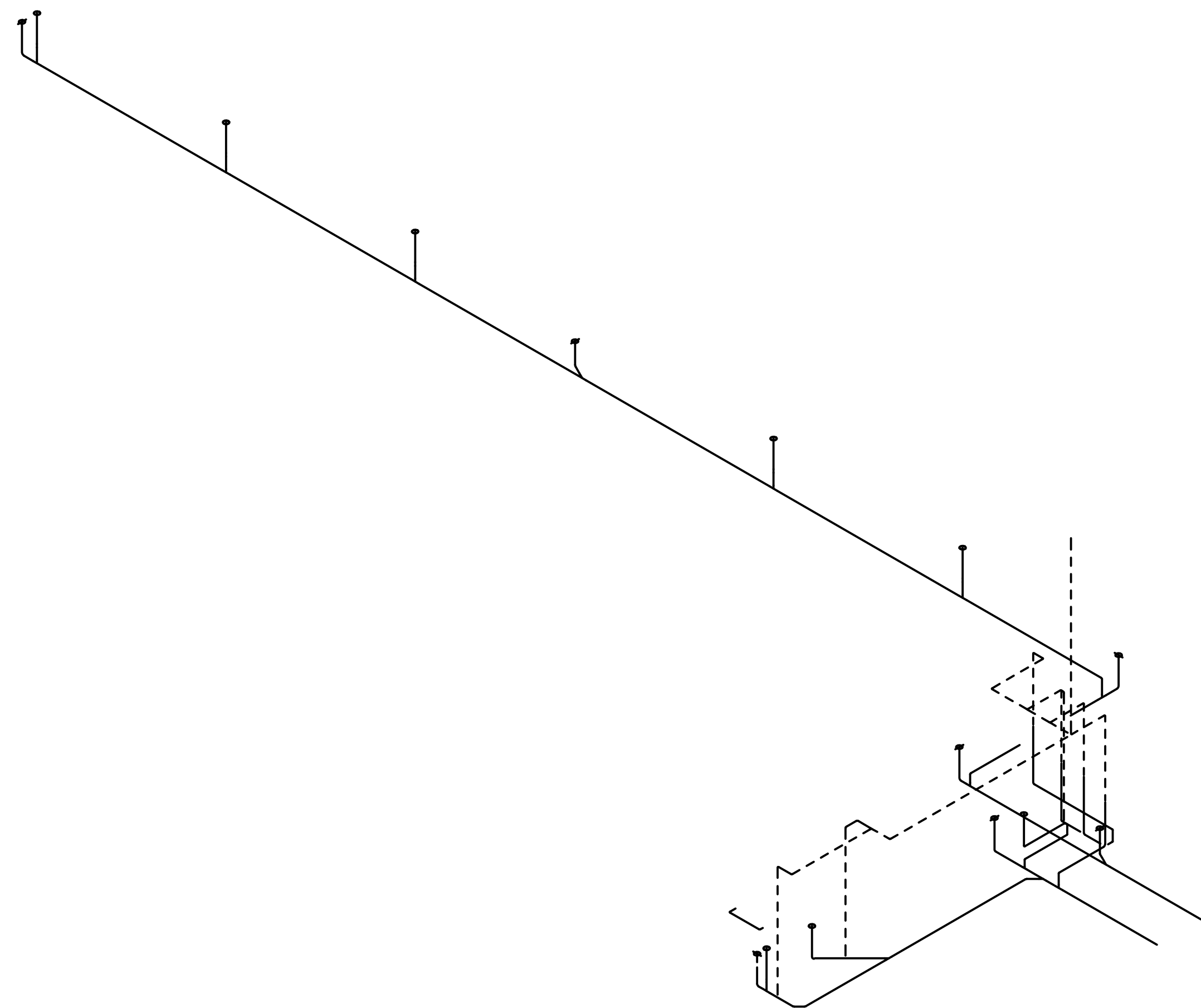
WOLD ARCHITECTS AND ENGINEERS
332 Minnesota Street, Suite W2000
Saint Paul, MN 55101

woldac.com | 651.227.7773

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C5 SUPPLY RISER DIAGRAM
NOT TO SCALE



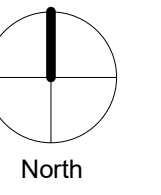
F5 WASTE AND VENT RISER DIAGRAM
NOT TO SCALE

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License Number: **23989** Date: **12/22/20**

| Description | Revisions | |
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SUPPLY AND WASTE RISERS

Scale:

M2.3

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| DOMESTIC WATER HEATER SCHEDULE | | | | | | | | | | | | |
|--------------------------------|--------------|--------------|--------------|--------------------|-----------|------------------------|-------------------------|-------------|-----------|-------|-------|------------|
| UNIT NO. | SERVES | MANUFACTURER | MODEL NUMBER | TYPE (GAS OR ELEC) | MBH INPUT | STORAGE CAP. (GALLONS) | GPH RECOVERY @ 90° RISE | WATER TEMP. | VENT SIZE | VOLTS | PHASE | REMARKS |
| WH-1 | ALTERNATE #1 | A.O. SMITH | GCR-30R | GAS | 32.0 | 30 | 31 | 110°F | 4" | 120 | 1 | 1, 2, 3, 4 |

- NOTES:
- INSTALL IN ACCORDANCE WITH MANUFACTURER'S WRITTEN INSTRUCTIONS.
 - PROVIDE WITH ASME RATED PRESSURE TEMPERATURE RELIEF VALVE.
 - PROVIDE WITH SINGLE POINT ELECTRICAL CONNECTION.
 - PROVIDE UNDER ALTERNATE #1 ONLY.

| FLAMMABLE WASTE INTERCEPTOR SCHEDULE | | | | | | | | | |
|--------------------------------------|-------------------------------|--------------|--------------|-------------------|-----------------|-----------------|--------------|---------------|---------|
| UNIT NO. | SERVES | MANUFACTURER | MODEL NUMBER | INLET/OUTLET SIZE | VAPOR VENT SIZE | LIQUID CAPACITY | OIL CAPACITY | SAND CAPACITY | REMARKS |
| FW-1 | EAST AND WEST STORAGE GARAGES | STRIEM | FLI-275 | 4" | 4" | 262 GAL | 128 GAL | 111 GAL | 1, 2 |

- NOTES:
- INSTALL IN ACCORDANCE WITH MANUFACTURER'S WRITTEN INSTRUCTIONS AND MINNESOTA PLUMBING CODE.
 - PROVIDE CUSTOM TELESCOPING ACCESS RISER AS REQUIRED TO ACCOMMODATE INVERT ELEVATION.

| PLUMBING FIXTURE SCHEDULE | | | | | | | | | | |
|---------------------------|------------------------------|--------|--------|--------|------|--------|-----------|----------|-------|----------------------------------|
| FIX. NO. | FIXTURE TYPE | WASTE | VENT | CW | HW | VACUUM | LAB GASES | | | REMARKS |
| | | | | | | | AIR | NAT. GAS | OTHER | |
| P-1H | WATER CLOSET (ADA) | 4" | 2" | 1 1/4" | - | - | - | - | - | ADA COMPLIANT |
| P-2H | LAVATORY (ADA) | 1 1/2" | 1 1/2" | 1/2" | 1/2" | - | - | - | - | ADA COMPLIANT |
| P-3H | TWO-COMPARTMENT KITCHEN SINK | 2" | 1 1/2" | 1/2" | 1/2" | - | - | - | - | ADA COMPLIANT COUNTER MOUNTED |
| P-4 | SERVICE SINK | 3" | 1 1/2" | 3/4" | 3/4" | - | - | - | - | WALL MOUNTED |
| P-5 | EMERGENCY EYEWASH | - | - | 1/2" | 1/2" | - | - | - | - | WALL MOUNTED |

| AIR SEPARATOR SCHEDULE | | | | | | | |
|------------------------|---------------|--------------|--------------|----------|-------------------|---------------|---------|
| UNIT NO. | SERVES | MANUFACTURER | MODEL NUMBER | MAX. GPM | INLET/OUTLET SIZE | BLOWDOWN SIZE | REMARKS |
| AS-1 | HEATING WATER | B&G | - | - | 2 1/2" | 2 1/2" | 1, 2, 3 |

- NOTES:
- INSTALL IN ACCORDANCE WITH MANUFACTURER'S WRITTEN INSTRUCTIONS.
 - PROVIDE AUTOMATIC AIR VENT PIPED TO NEAREST FLOOR DRAIN.
 - PROVIDE UNDER ALTERNATE #1 ONLY.

| BOILER SCHEDULE | | | | | | | | | |
|-----------------|--------------|--------------|------------|----------|---------------------|------------------|-------|-------|---------|
| UNIT NO. | MANUFACTURER | MODEL NUMBER | TYPE | FUEL | FIRING RATE MBH/GPH | GROSS OUTPUT MBH | VOLTS | PHASE | REMARKS |
| B-1 | LOCHINVAR | KBN400 | WATER TUBE | NAT. GAS | 399 | 376 | 120 | 1 | 1, 2, 3 |

- NOTES:
- INSTALL IN ACCORDANCE WITH MANUFACTURER'S WRITTEN INSTRUCTIONS.
 - PROVIDE UNDER ALTERNATE #1 ONLY.
 - PROVIDE WITH BG PL-130 BOILER CIRCULATOR PUMP.

| EXPANSION TANK SCHEDULE | | | | | | | | | | | | |
|-------------------------|---------------|--------------|--------------|-----------|---------------------|---------------------------------|-------------------------------|-----------------------|-----------------------------|-------------|-----------|---------|
| UNIT NO. | SERVES | MANUFACTURER | MODEL NUMBER | TANK TYPE | AVERAGE WATER TEMP. | MINIMUM PRECHARGE PRESS. (PSIG) | MAXIMUM OPER. PRESSURE (PSIG) | TANK VOLUME (GALLONS) | ACCEPTANCE VOLUME (GALLONS) | TANK HEIGHT | TANK DIA. | REMARKS |
| ET-1 | HEATING WATER | B&G | B-130LA | BLADDER | 145 | 55 | 125 | 34 | 27 | 35" | 20" | 1, 2, 3 |

- NOTES:
- INSTALL IN ACCORDANCE WITH MANUFACTURER'S WRITTEN INSTRUCTIONS.
 - PROVIDE AUTOMATIC AIR VENT PIPED TO NEAREST FLOOR DRAIN.
 - PROVIDE UNDER ALTERNATE #1 ONLY.

| PUMP SCHEDULE | | | | | | | | | | | | | | | | | | | | |
|---------------|-------------|-------------|--------------|--------|--------------|--------|------------|-------------|---------------|--------------|-----------|------|-----------|-------------|-------|------|-------|-------|---------|---------|
| UNIT NO. | SERVES | LOCATION | MANUFACTURER | SERIES | MODEL NUMBER | TYPE | DESIGN GPM | DESIGN HEAD | 50% FLOW HEAD | SHUTOFF HEAD | IMP. SIZE | EFF. | SUC. SIZE | DISCH. SIZE | MOTOR | | | | REMARKS | |
| | | | | | | | | | | | | | | | RPM | H.P. | VOLTS | PHASE | | |
| P-1 | MANIFOLD-1 | BOILER ROOM | B & G | e-60 | 2x2x6.25 | INLINE | 13.6 | 34 | 35 | 36 | 6.0 | 34% | 2 | 2 | 1750 | 1.5 | 208 | 3 | NO | 1, 3 |
| P-2 | MANIFOLD-2 | BOILER ROOM | B & G | e-60 | 1.5x1.5x7 | INLINE | 17.7 | 47 | 49 | 49 | 6.5 | 28% | 1.5 | 1.5 | 1750 | 2 | 208 | 3 | NO | 1, 3 |
| P-3 | FAN COIL UH | BOILER ROOM | B & G | CIRC | NRF-36 | INLINE | 2.6 | 26 | 27 | 29 | - | - | 3/4 | 3/4 | 4800 | 1/4 | 120 | 1 | NO | 1, 3 |
| P-4 | DOMESTIC | BOILER ROOM | B & G | CIRC | NBF-18S | INLINE | 2.0 | 12 | 15 | 18 | - | - | 1/2 | 1/2 | 3300 | 1/10 | 120 | 1 | NO | 1, 2, 3 |

- NOTES:
- INSTALL IN ACCORDANCE WITH MANUFACTURER'S WRITTEN INSTRUCTIONS.
 - PROVIDE AND INSTALL A STRAP-ON LINE VOLTAGE AQUASTAT TO CYCLE PUMP. COORDINATE INSTALLATION WITH THE ELECTRICAL CONTRACTOR FOR WIRING.
 - PROVIDE UNDER ALTERNATE #1 ONLY.

| GAS FIRED MAKE-UP AIR UNIT SCHEDULE | | | | | | | | | | | | | | | | |
|-------------------------------------|---------------------|--------------|-----------|-------------|----------|------|--------------------------|---------|-------|------|------|-----|-----|------------|---------------|--|
| UNIT NO. | SERVES | MANUFACTURER | MODEL NO. | TYPE | MOUNTING | CFM | EXTERNAL STATIC PRESSURE | VOLTAGE | PHASE | H.P. | MCA | EAT | LAT | OUTPUT MBH | REMARKS | |
| MAU-1 | WEST STORAGE GARAGE | ABSOLUT AIRE | V3-HOM | DIRECT FIRE | HANGING | 5400 | 0.5 | 208 | 3 | 5 | 23.9 | -16 | 75 | 525 | 1, 2, 3, 4, 5 | |
| MAU-2 | EAST STORAGE GARAGE | ABSOLUT AIRE | V3-HOM | DIRECT FIRE | HANGING | 4200 | 0.5 | 208 | 3 | 3 | 16.3 | -16 | 75 | 408 | 1, 2, 3, 4, 5 | |

- NOTES:
- INSTALL IN ACCORDANCE WITH MANUFACTURER'S WRITTEN INSTRUCTIONS.
 - PROVIDE GAS PRESSURE REGULATOR ON ALL 2" W.C. GAS SERVICE.
 - PROVIDE WITH VFD, OUTSIDE AIR MOTORIZED DAMPER, AND 2" MERV 8 FILTERS.
 - PROVIDE UNDER ALTERNATE #1 ONLY.
 - COORDINATE WITH BUILDING TRUSS SUPPLIER FOR STRUCTURAL REINFORCEMENT FOR HANGING UNITS.

| UNIT HEATER SCHEDULE | | | | | | | | | | | | | | | | |
|----------------------|---------------------|--------------|-----------|-------------|-----------|-------|---------|-------|---------|-------|--------------|------------|-----|---------------|--|--|
| UNIT NO. | SERVES | MANUFACTURER | MODEL NO. | TYPE | CABINET | CFM | VOLTAGE | PHASE | FAN RPM | WATTS | DELTA T (°F) | OUTPUT MBH | GPM | REMARKS | | |
| UH-1 | WEST STORAGE GARAGE | REZTOR | UDAP-125 | NATURAL GAS | SUSPENDED | 1,537 | 115 | 1 | 1050 | 37 | 55 | 125 | - | 1, 2, 3, 4 | | |
| UH-2 | WEST STORAGE GARAGE | REZTOR | UDAP-125 | NATURAL GAS | SUSPENDED | 1,537 | 115 | 1 | 1050 | 37 | 55 | 125 | - | 1, 2, 3, 4 | | |
| UH-3 | EAST STORAGE GARAGE | REZTOR | UDAP-125 | NATURAL GAS | SUSPENDED | 1,537 | 115 | 1 | 1050 | 37 | 55 | 125 | - | 1, 2, 3, 4 | | |
| UH-4 | EAST STORAGE GARAGE | REZTOR | UDAP-125 | NATURAL GAS | SUSPENDED | 1,537 | 115 | 1 | 1050 | 37 | 55 | 125 | - | 1, 2, 3, 4 | | |
| UH-5 | STORAGE | STERLING | HS-116A | HOT WATER | SUSPENDED | 500 | 115 | 1 | 1550 | 9 | 40 | 10.9 | 0.9 | 1, 2, 3, 4, 5 | | |

- NOTES:
- INSTALL IN ACCORDANCE WITH MANUFACTURER'S WRITTEN INSTRUCTIONS.
 - PROVIDE GAS PRESSURE REGULATOR.
 - PROVIDE WITH SINGLE STAGE THERMOSTAT WIRING BY DIVISION 26.
 - PROVIDE WITH CONCENTRIC VENTING KIT.
 - PROVIDE UNDER ALTERNATE #1 ONLY.

| EXHAUST FAN AND TRANSFER FAN SCHEDULE | | | | | | | | | | | | | | | | | |
|---------------------------------------|---------------------|--------------|-----------|--------|------|-----------------|------|--------|-------|----|-------------|--------|----------------------------|-------------|----------------|-------------------|------------|
| UNIT NO. | SERVES | MANUFACTURER | MODEL NO. | TYPE | CFM | TOTAL S.P. W.C. | RPM | HP | VOLTS | PH | DAMPER SIZE | DRIVE | COMPONENTS AND ACCESSORIES | | | | REMARKS |
| | | | | | | | | | | | | | SPEED SWITCH | MOT. DAMPER | GRAVITY DAMPER | DISCONNECT SWITCH | |
| EF-1 | WEST STORAGE GARAGE | COOK | 270SQN-B | INLINE | 6800 | 0.75 | 720 | 2 | 208 | 3 | - | BELT | NO | YES | NO | NO | 1, 3, 4, 7 |
| EF-2 | EAST STORAGE GARAGE | COOK | 226SQN-B | INLINE | 5200 | 0.75 | 925 | 2 | 208 | 3 | - | BELT | NO | YES | NO | NO | 1, 3, 4, 7 |
| EF-3 | RESTROOM | COOK | GC-242 | INLINE | 700 | 0.3 | 1483 | 24.4 W | 120 | 1 | - | DIRECT | YES | YES | NO | NO | 1, 6 |

- NOTES:
- INSTALL IN ACCORDANCE WITH MANUFACTURER'S WRITTEN INSTRUCTIONS.
 - PROVIDE WITH FACTORY MOUNTED SPEED SWITCH IN MOTOR COMPARTMENT FOR BALANCING.
 - PROVIDE WITH GRAVITY OR MOTORIZED DAMPER AS INDICATED AND BIRDSCREEN. THE TEMPERATURE CONTROL CONTRACTOR SHALL PROVIDE ALL MOTORIZED DAMPERS.
 - PROVIDE WITH HANGER TYPE VIBRATION ISOLATORS.
 - PROVIDE VFD FOR FAN CONTROL. VFD PROVIDED BY CONTROLS CONTRACTOR AND WIRED BY DIVISION 26.
 - PROVIDE UNDER ALTERNATE #1 ONLY.
 - FAN CONTROLLED BY AIR QUALITY SENSOR.

| HIGH VOLUME LOW SPEED FAN SCHEDULE | | | | | | | | | | |
|------------------------------------|---------------------|--------------|----------------|----------|---------|-------|-------|----|------------|--|
| UNIT NO. | SERVES | MANUFACTURER | MODEL | DIAMETER | MAX RPM | WATTS | VOLTS | PH | REMARKS | |
| DF-1 | WEST STORAGE GARAGE | AIRIUS | AIR PEAR 25-SP | 13" | 1670 | 37 | 120 | 1 | 1, 2, 3, 4 | |
| DF-2 | WEST STORAGE GARAGE | AIRIUS | AIR PEAR 25-SP | 13" | 1670 | 37 | 120 | 1 | 1, 2, 3, 4 | |
| DF-3 | WEST STORAGE GARAGE | AIRIUS | AIR PEAR 25-SP | 13" | 1670 | 37 | 120 | 1 | 1, 2, 3, 4 | |
| DF-4 | WEST STORAGE GARAGE | AIRIUS | AIR PEAR 25-SP | 13" | 1670 | 37 | 120 | 1 | 1, 2, 3, 4 | |
| DF-5 | EAST STORAGE GARAGE | AIRIUS | AIR PEAR 25-SP | 13" | 1670 | 37 | 120 | 1 | 1, 2, 3, 4 | |
| DF-6 | EAST STORAGE GARAGE | AIRIUS | AIR PEAR 25-SP | 13" | 1670 | 37 | 120 | 1 | 1, 2, 3, 4 | |
| DF-7 | EAST STORAGE GARAGE | AIRIUS | AIR PEAR 25-SP | 13" | 1670 | 37 | 120 | 1 | 1, 2, 3, 4 | |
| DF-8 | EAST STORAGE GARAGE | AIRIUS | AIR PEAR 25-SP | 13" | 1670 | 37 | 120 | 1 | 1, 2, 3, 4 | |

- NOTES:
- INSTALL IN ACCORDANCE WITH MANUFACTURER'S WRITTEN INSTRUCTIONS.
 - PROVIDE ADDITIONAL SAFETY CHAIN, ATTACH CHAIN BETWEEN UNIT AND STRUCTURE.
 - PROVIDE WITH VARIABLE SPEED CONTROLLER.
 - PROVIDE UNDER ALTERNATE #1 ONLY.

| FAN COIL UNIT SCHEDULE | | | | | | | | | | | | | | | | | | | |
|------------------------|----------------------|------------------|--------|--------------|-------------|-----------|-----------|--------------|------|-----|-----|----------|------|----------|-------|---------|-------|------|---------|
| UNIT NO. | TYPE | CFM @ HIGH SPEED | MIN OA | COOLING DATA | | | | HEATING DATA | | | | FAN DATA | | | | REMARKS | | | |
| | | | | EAT DBWB | LAT DBWB | SENS. MBH | TOTAL MBH | EAT | LAT | EWT | LWT | MBH | GPM | MAX P.D. | VOLTS | | PHASE | HP | MCA |
| FC-1 | HORIZONTAL HIGH PERF | 905 | 180 | 77.3 / 64.3 | 63.3 / 52.1 | 21.4 | 26.4 | 50 | 86.3 | 160 | 120 | 33.4 | 1.70 | x | 115 | 1 | 3@13 | 10.8 | 1, 2, 3 |

- NOTES:
- INSTALL IN ACCORDANCE WITH MANUFACTURER'S WRITTEN INSTRUCTIONS.
 - SELECTED WITH 40% PG.
 - PROVIDE SAME SIDE CONTROL ENCLOSURE AS COIL CONNECTIONS. VERIFY AND COORDINATE IN FIELD.
 - PROVIDE UNDER ALTERNATE #1 ONLY.

| CONDENSING UNIT SCHEDULE - AIR COOLED | | | | | | | | | | | | | |
|---------------------------------------|--------|-------|-----------|--------------|-----------------|-------|-------|------|----------|--------|------|---------|---------|
| UNIT NO. | SERVES | MFGR. | MODEL NO. | NOMINAL TONS | COMPRESSOR TYPE | VOLTS | PHASE | MCA | CIRCUITS | STAGES | SEER | REFRIG. | REMARKS |
| CU-1 | FC-1 | YORK | YCD36B23S | 3 | SCROLL | 208 | 1 | 19.8 | - | 1 | 13 | R-410A | 6 |

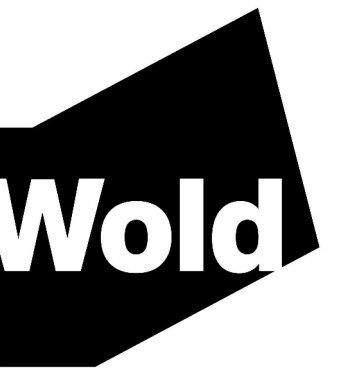
- NOTES:
- INSTALL IN ACCORDANCE WITH MANUFACTURER'S WRITTEN INSTRUCTIONS.
 - PROVIDE WITH SPRING VIBRATION ISOLATORS.
 - PROVIDE WITH HOT GAS BYPASS ON FIRST STAGE.
 - PROVIDE WITH SINGLE POINT ELECTRICAL CONNECTION AND TRANSFORMER FOR CONTROL CIRCUIT.
 - PROVIDE WITH SINGLE POINT DISCONNECT.
 - PROVIDE UNDER ALTERNATE #1 ONLY.

| GRILLES, REGISTERS AND DIFFUSERS SCHEDULE | | | | |
|---|--|-------------------------------|---|---------|
| TYPE | SERVICE | MANUF. & MODEL NO. | DESCRIPTION | REMARKS |
| A | SUPPLY AIR DIFFUSER (LAY-IN CEILING MOUNT) | TITUS MODEL TMS BORDER TYPE 3 | 24" x 24" STEEL 3 CONE LOUVERED FACE SUPPLY AIR DIFFUSER WITH ROUND INLET NECK, HEAVY GAUGE STEEL BACK PAN, AND FACTORY BAKED WHITE ENAMEL FINISH. | |
| B | SUPPLY REGISTER (SURFACE MOUNT) | TITUS MODEL 300RL | ALL STEEL SUPPLY REGISTER OF THE SIZE AS INDICATED ON THE PLANS. PROVIDE WITH DOUBLE DEFLECTION HORIZONTAL FRONT BLADES, 1/2" SPACING, OPPOSED BLADE DAMPER, AND BAKED WHITE ENAMEL FINISH. | |
| C | EXHAUST REGISTER (SURFACE MOUNT) | TITUS MODEL 350RL | ALL STEEL EXHAUST REGISTER OF THE SIZE AS INDICATED ON THE PLANS. PROVIDE WITH SINGLE DEFLECTION HORIZONTAL BLADES AT A FIXED 35° PATTERN AT 1/2" SPACING, OPPOSED BLADE DAMPER, AND FACTORY BAKED WHITE ENAMEL FINISH. | |

NEW PUBLIC WORKS FACILITY

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CITY OF ROCKVILLE
229 Broadway Street East
Rockville, MN 56369



WOLD ARCHITECTS
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332 Minnesota Street, Suite W2000
Saint Paul, MN 55101

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I hereby certify that this plan, specification or report was prepared by me or under my direct supervision and that I am a duly Licensed PROFESSIONAL ENGINEER under the laws of the State of MINNESOTA

License Number: **23989** Date: **12/22/20**

| Description | Revisions | |
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SCHEDULES

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

95% CD / OWNER REVIEW SET
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M2.4

MN

ELECTRICAL SYMBOL SCHEDULE

Table with columns for SYMBOL, DESCRIPTION, MOUNTING HEIGHT, and multiple columns for different categories: GENERAL ELECTRICAL SYMBOLS, LIGHTING, COMMUNICATION DEVICES, POWER AND MOTOR DEVICES, SECURITY DEVICES, and NURSE CALL DEVICES.

ELECTRICAL ABBREVIATIONS LIST

Table listing electrical abbreviations and their corresponding full names, organized in multiple columns.

GENERAL ELECTRICAL NOTES

- A. INSTALL CONCEALED CONDUIT WITH FLUSH J.B.'S IN WALLS AND CEILINGS UNLESS NOTED OTHERWISE. IN FINISHED AREAS WITH INACCESSIBLE WALLS OR CEILINGS, PROVIDE SURFACE (WIREDMOLD) RACEWAY; PAINT TO MATCH COLOR OF ADJACENT WALL OR CEILING.
B. RACEWAYS SHALL CONTAIN A GROUNDING CONDUCTOR.
C. CIRCUITS SUPPLYING LINE TO NEUTRAL LOADS SHALL HAVE DEDICATED NEUTRALS, I.E. ONE NEUTRAL PER PHASE. NEUTRAL CONDUCTORS SHALL HAVE TRACER STRIPE ALONG ENTIRE LENGTH INDICATING ASSOCIATED PHASE.
D. BUILDING CONDUCTORS SHALL BE THW/THHN. CONDUCTORS IN UNDERGROUND CONDUIT OUTSIDE OF BUILDINGS SHALL BE XHHW.
E. NUMBERS AT RECEPTACLES AND LIGHT FIXTURES CORRESPOND DIRECTLY WITH PANELBOARD CIRCUIT NUMBERS AS SCHEDULED. BRANCH CIRCUIT WIRING AND HOMERUNS ARE NOT SHOWN FOR CLARITY. ACCURATE RECORD DRAWING INFORMATION IS TO BE PROVIDED AT THE PROJECT COMPLETION. TYPICAL THROUGHOUT. REFER TO SPECIFICATIONS FOR MATERIALS AND INSTALLATION REQUIREMENTS.
F. REFER TO CONTRACT DOCUMENTS FOR SEQUENCE OF CONSTRUCTION AND PHASING OF THE CONTRACT.
G. SWITCHES SHALL BE MOUNTED PER ADA REQUIREMENTS, 46" AFF. UNLESS OTHERWISE NOTED, RECEPTACLES AND TELECOMMUNICATION OUTLETS IN FINISHED AREAS SHALL BE MOUNTED 18" AFF. RECEPTACLES IN UNFINISHED SPACES SHALL BE MOUNTED AT 46" OR 4" ABOVE WORK SURFACE. COORDINATE RECEPTACLE MOUNTING HEIGHTS WITH MILLWORK LOCATIONS, ARCHITECTURAL ELEVATIONS, AND MASONRY COURSING.
H. CRITICAL DEVIATION AND APPROVAL OF ARCHITECT, TELEPHONE, COMPUTER SECURITY, AND FIRE ALARM, AFFECT ASSOCIATED SYSTEMS BUILDING-WIDE. THESE SYSTEMS MUST REMAIN OPERATIONAL DURING THE CONSTRUCTION. INDIVIDUAL DEVICES MAY BE DISCONNECTED AND/OR RECONNECTED DURING CONSTRUCTION. COORDINATE POWER OUTAGES WITH OWNER. PROVIDE TEMPORARY PANEL(S) AND/OR CIRCUIT(S) AS/IF NECESSARY TO MAINTAIN CONTINUITY. PROTECT FROM PHYSICAL AND DUST DAMAGE.
I. THE BUILDING SHALL MAINTAIN POWER THROUGHOUT THE CONSTRUCTION PROCESS. COORDINATE ENERGIZATION OF NEW EQUIPMENT AND THE CORRESPONDING RECONNECTION OF EXISTING AFFECTED ELECTRICAL DISTRIBUTION EQUIPMENT.
J. SEE RELATED PLUMBING AND HVAC DRAWINGS FOR LOCATION OF EQUIPMENT REQUIRING ELECTRICAL CONNECTIONS. COORDINATE INTERCONNECTION REQUIREMENTS WITH EQUIPMENT SHOP DRAWINGS.
K. WIRING FOR MISCELLANEOUS HVAC DEVICES AND CONTROLLERS SUCH AS DAMPER MOTORS, THERMOSTATS, DUCT SMOKE DETECTORS, FREEZESTATS, DIFFERENTIAL PRESSURE SWITCHES, OCCUPIED AND UNOCCUPIED SELECTOR SWITCHES, ALARM LIGHTS, ETC., NOT SHOWN ON ELECTRICAL DRAWINGS IS DIVISION 23 WORK.
L. FIELD VERIFY EXISTING CONDITIONS. DISCREPANCIES BETWEEN THE DRAWING AND ACTUAL FIELD CONDITIONS SHALL BE BROUGHT TO THE ATTENTION OF THE ENGINEER PRIOR TO BIDS.
M. MAINTAIN EXISTING CIRCUIT CONTINUITY ON ALL SYSTEMS ON THE SITE THAT ARE EXISTING TO REMAIN.
N. PROVIDE ALL CONDUIT HOMERUNS AS 3/4" C. MIN.
O. COORDINATE ALL WORK WITH OTHER CONTRACTORS AND OWNER.
P. ALL CUTTING AND PATCHING FOR DIV. 26 WORK SHALL BE UNDER SUPERVISION AND APPROVAL OF ARCHITECT.
Q. REMOVE AND/OR REINSTALL ELECTRICAL DEVICES IN ALL AREAS OF WORK AS REQUIRED AND REPLACE ANY ELECTRICAL DEVICES DAMAGED BY WORK. NOT ALL DEVICES MAY BE SHOWN ON DRAWINGS.
R. PROVIDE ALL BOXES, FITTINGS, CONDUIT, WIRING, TERMINATIONS, EQUIPMENT, ETC. FOR A COMPLETE INSTALLATION.
S. BRANCH 20A CIRCUIT CONDUCTORS SHOULD BE SIZED AS FOLLOWS:

Table with columns for 120V CCT LENGTH, 277V CCT LENGTH, and AWG. Rows show conductor sizes for lengths less than 75', 75' to 120', and 120' to 200'.

NURSE CALL DEVICES

Table for Nurse Call Devices with columns for SYMBOL, DESCRIPTION, and MOUNTING HEIGHT.

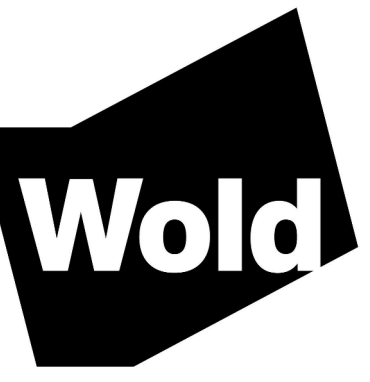
ELECTRICAL DRAWINGS

Table with columns for E.O. (ELECTRICAL SYMBOLS AND ABBREVIATIONS), E.1.00 (ELECTRICAL LIGHTING PLAN), and E.2.00 (ELECTRICAL POWER & SYSTEMS PLAN).

New Public Works Facility

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City of Rockville, 229 Broadway Street East, Rockville, MN 56369



WOLD ARCHITECTS AND ENGINEERS, 332 Minnesota Street, Suite W200, Saint Paul, MN 55101

woldae.com | 651.227.7773

I hereby certify that this plan, specification or report was prepared by me or under my direct supervision and that I am a duly Licensed PROFESSIONAL ENGINEER under the laws of the State of MINNESOTA

License Number: 54683 Date: 12/18/2020

Table with columns for Description, Revisions (Date, Num), and a grid for recording revisions.

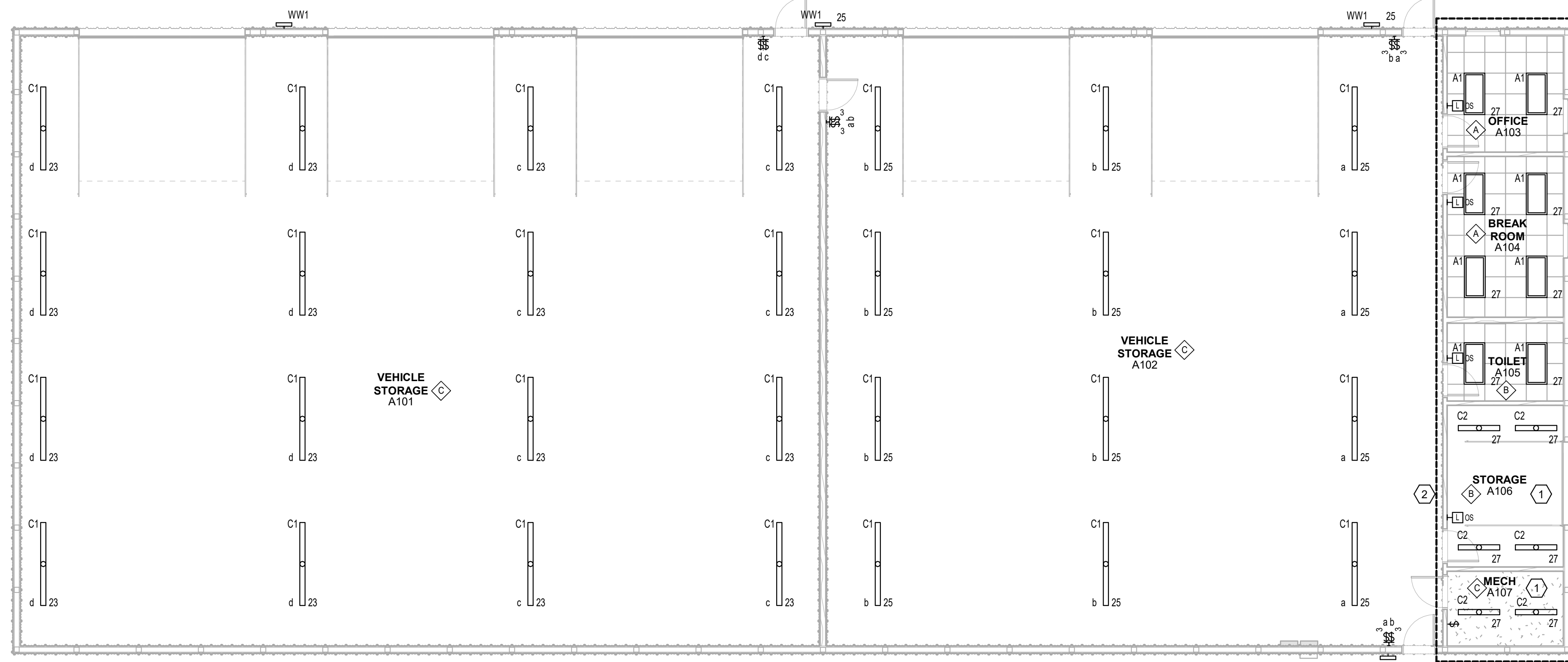
Comm: 202208, Date: 12/18/2020, Drawn: B. Gallagher, Check: R. Hinks

ELECTRICAL SYMBOLS AND ABBREVIATIONS

Scale: As indicated

95% CD's / OWNER REVIEW SET, NOT FOR CONSTRUCTION

E0.00



KEYED SHEET NOTES

- HANG LIGHTS BELOW DUCTWORK AND PIPING. COORDINATE WITH MECHANICAL FOR EXACT LOCATIONS.
- AREA WITHIN DASHED LINE IS SCOPE PER ALTERNATE NO. 1.

OCCUPANCY SENSOR SCHEDULE

| MARK | INTENDED LOCATIONS OF USE | WALL SWITCH LESS | OCC SENSOR LOCATION | MANUAL AUTO | DIMMING | DAY LIGHT |
|------|---|------------------|---------------------|-------------|---------|-----------|
| ◇ | SMALL OFFICES, BREAKROOMS | 1 | WALL | MANUAL | X | |
| ◇ | STORAGE, MAINTENANCE, SINGLE-GANG TOILETS | 1 | WALL | AUTO | | |
| ◇ | MECH/ELEC ROOMS, GARAGE | LINE, SEE PLANS | NONE | NA | | |

GENERAL NOTES:
 A. SCHEMES ARE SCHEMATIC. PROVIDE WIRING AND COMPONENTS AS REQUIRED.
 B. PROVIDE MULTIPLE SWITCH LOCATIONS (SWAY SWITCHING) IF INDICATED ON PLANS.
 C. INTERCONNECT ALL SENSORS IF MULTIPLE SENSORS ARE SHOWN WITHIN SAME ROOM, UNLESS INDICATED OTHERWISE.
 D. PROVIDE EMERGENCY RELAYS AS INDICATED ON PLANS.

GENERAL SHEET NOTES

- SOME NOTES MAY NOT APPLY TO THIS SHEET.
- ELECTRICAL CONTRACTOR SHALL BE RESPONSIBLE FOR WIRING ALL ELECTRICAL ITEMS SHOWN ON THIS DRAWING.
- ALL RECESSED LIGHTING FIXTURES IN LAY-IN CEILINGS SHALL BE INSTALLED WITH 6" LONG FLEXIBLE METAL CONDUIT.
- ALL MOUNTING HEIGHTS FOR LIGHTING FIXTURES ARE TO THE BOTTOM OF THE FIXTURES UNLESS INDICATED OTHERWISE.
- SEE ARCHITECTURAL EXTERIOR ELEVATIONS FOR MOUNTING HEIGHTS OF EXTERIOR LIGHTING FIXTURES.
- CIRCUIT WIRING IS NOT SHOWN EXCEPT FOR SWITCHING INTENT OF FIXTURES AND CONTROL OF DEVICES.
- PROVIDE PROPER NUMBER OF CONDUCTORS TO ACHIEVE CIRCUITING AND SWITCHING SHOWN.
- CIRCUIT NUMBERS AT DEVICES CIRCUIT NUMBERS SHOWN ARE FOR SCHEMATIC PURPOSES AND ARE FOR DISTINGUISHING CIRCUITS. RECORD AS-BUILT CIRCUITING IN A TYPED AND DATED PANEL BOARD SCHEDULE. BRANCH CIRCUITS SHALL BE SIZED ACCORDING TO THE CIRCUIT BREAKER RATING, UNLESS INDICATED OTHERWISE ON THE ELECTRICAL EQUIPMENT SCHEDULE.
- USE #10 AWG CONDUCTORS FOR 20 AMPERE, 120 VOLT BRANCH CIRCUITS LONGER THAN 75 FEET, UNLESS SPECIFICALLY INDICATED OTHERWISE. THIS SHALL BE REQUIRED FOR THE ENTIRE LENGTH OF THE CIRCUIT.
- USE #10 AWG CONDUCTORS FOR 20 AMPERE, 277 VOLT BRANCH CIRCUITS LONGER THAN 175 FEET, UNLESS SPECIFICALLY INDICATED OTHERWISE. THIS SHALL BE REQUIRED FOR THE ENTIRE LENGTH OF THE CIRCUIT.
- ALL OCCUPANCY SENSORS SHALL HAVE AUXILIARY CONTACTS OR ADDITIONAL DEVICES TO ENABLE HVAC INTERFACE.

- MAXIMUM ALLOWABLE WATTAGE FOR A LIGHTING CIRCUIT WILL NOT EXCEED 3500 (277V) OR 1600 (120V) WATTS.
- REFER TO DIVISION 23 SPECIFICATIONS FOR MORE INFORMATION ON BAS LIGHTING CONTROLS.

C1 NEW ROCKVILLE PUBLIC WORKS FACILITY - LIGHTING PLAN
 1/8" = 1'-0"

| MARK | LUMINAIRE TYPE | LUMEN/WATTS | VOLTAGE | MOUNTING | LENS/LOUVER | OTHER REQUIREMENTS | MANUFACTURERS' SERIES | NOTES | MARK | SPARE |
|------|------------------------------------|------------------------------------|---------|--|---|---|--|-------|------|-------|
| A1 | RECESSED 2X4 TROFFER (4000 LUMENS) | LED 4000+ LUMENS 4000K 40W | MVOLT | RECESSED CEILING GRID | ROUND SMOOTH DIFFUSING LENS WITH TRIM RINGS | 80+ CRI 0-10V DIMMING DRIVER WHITE FINISH PAINTED AFTER FABRICATION MIN 5 YEAR WARRANTY DLC CERTIFIED | LITHONIA 2BLT4 SERIES (2BLT4-40L-ADSM-EZ1-LP840) H.E. WILLIAMS LT SERIES COLUMBIA LCAT24 SERIES METALUX 24CZ SERIES | | A1 | |
| C1 | 8-FOOT INDUSTRIAL LED STRIP | LED 10,000+ LUMENS 4000K 70W | MVOLT | CHAIN HUNG 8FT. OR SURFACE MOUNTED TO CEILING. | FORSTED MEDIUM DIFFUSE LENS | 80+ CRI GENERAL PURPOSE STRIP FIXTURE WHITE FINISH DLC CERTIFIED | LITHONIA ZL1N L96 10000LM FST MVOLT 40K 80 CRI WH H.E. WILLIAMS 75L SERIES COLUMBIA LCL SERIES METALUX SNLED SERIES DAY-BRITE FSS SERIES | | C1 | |
| C2 | 4-FOOT INDUSTRIAL LED STRIP | LED 5,000+ LUMENS 4000K 35W | MVOLT | CHAIN HUNG 8FT. OR SURFACE MOUNTED TO CEILING. | FORSTED MEDIUM DIFFUSE LENS | 80+ CRI GENERAL PURPOSE STRIP FIXTURE WHITE FINISH DLC CERTIFIED | LITHONIA ZL1N L48 5000LM FST MVOLT 40K 80 CRI WH H.E. WILLIAMS 75L SERIES COLUMBIA LCL SERIES METALUX SNLED SERIES DAY-BRITE FSS SERIES | | C2 | |
| WW1 | EXTERIOR WALL FIXTURE | LED 2000+ LUMENS 4000K 15W | MVOLT | SEE ARCH ELEVATIONS FOR MOUNTING HEIGHTS | FORWARD THROW | BRONZE FINISH. WET LOCATION. DARK SKY FRIENDLY. INTEGRAL PHOTOCELL FOR CONTROL. OCCUPANCY SENSOR TO DIM TO 50% | LITHONIA WDGE2 LED P2 40K 80CRI VF DDBXD PIR | | WW1 | |
| | | | | | | | OR APPROVED EQUAL | | | |

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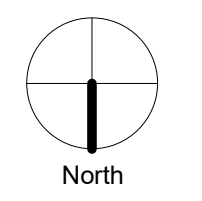
woldae.com | 651.227.7773

I hereby certify that this plan, specification or report was prepared by me or under my direct supervision and that I am a duly Licensed PROFESSIONAL ENGINEER under the laws of the State of MINNESOTA

License: **SITHA CHHUM**
 Number: **54883** Date: **12/18/2020**

| Description | Revisions | |
|-------------|-----------|-----|
| | Date | Num |
| | | |
| | | |
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| | | |
| | | |

Comm: **202208**
 Date: **12/18/2020**
 Drawn: **B. Gallagher**
 Check: **R. Hinks**



ELECTRICAL LIGHTING PLAN

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

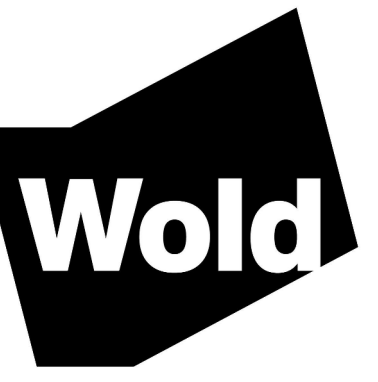
E1.00

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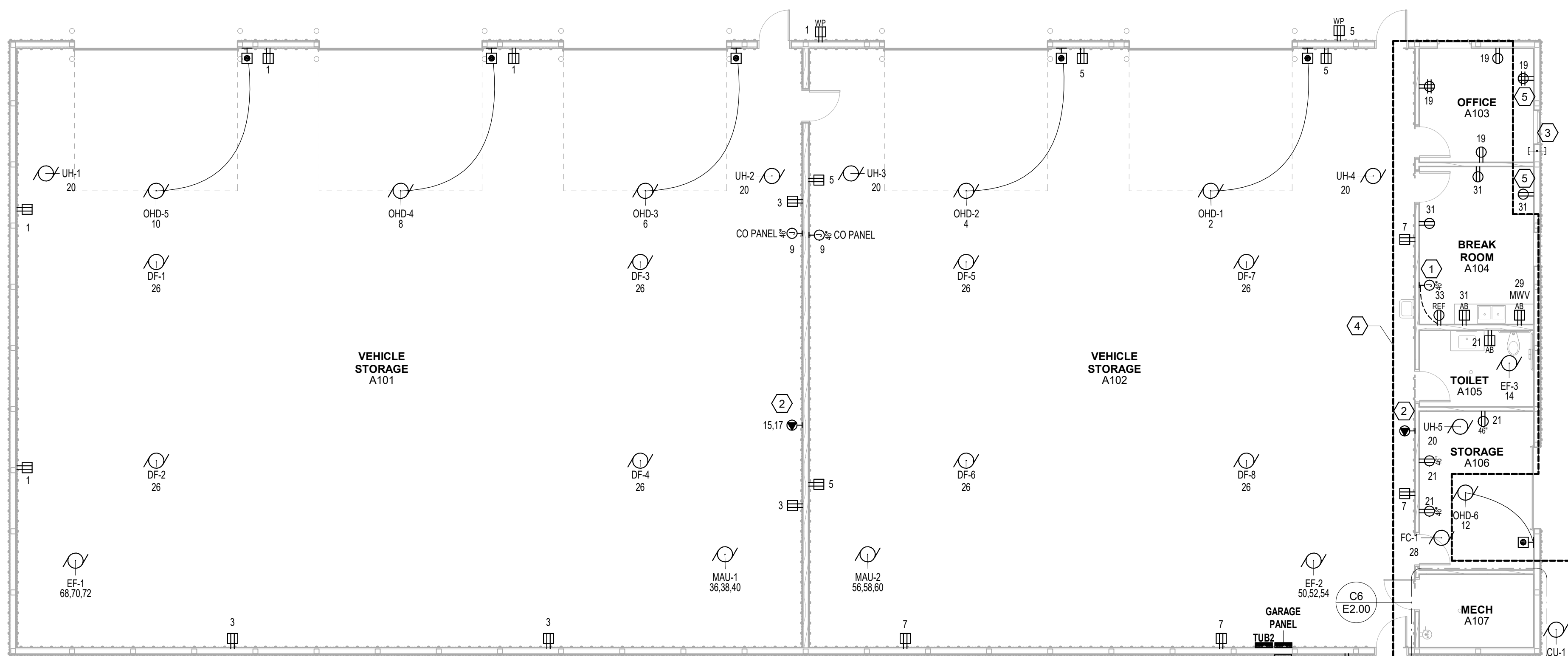


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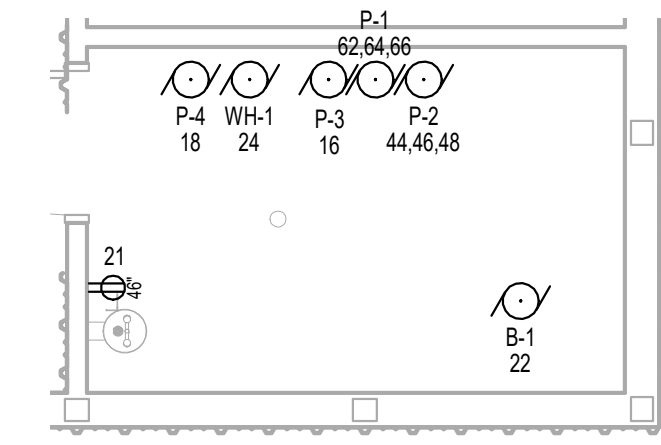
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| PANELBOARD: GARAGE PANEL | | | | | | | | | | | | | | |
|--------------------------------|----------------|-------------------|-----------|----------------------------|--------|-------------------------------|-----|-----|-----|-----|------|------------------|---------------|----|
| LOCATION: VEHICLE STORAGE A102 | | | | | | VOLTAGE: 208Y/120 V, 3 ø 4 W. | | | | | | | | |
| MOUNTING: SURFACE | | | | | | A.I.C. 10,000 AIC | | | | | | | | |
| MAINS TYPE: MCB | | | | | | SPECIAL: | | | | | | | | |
| MAINS AMPS: 200A | | | | | | | | | | | | | | |
| BUS AMPS: 200A | | | | | | | | | | | | | | |
| FED FROM: | | | | | | | | | | | | | | |
| # | BT | LOAD DESCRIPTION | LT | BKR | P | A | B | C | P | BKR | LT | LOAD DESCRIPTION | BT | |
| 1 | A101 | RCPT: NORTH... | RCPT | 20 A | 1 | 0.9 | 0.4 | | | 1 | 20 A | MTR | OHD-1 | 2 |
| 3 | A101 | RCPT: SOUTH, EAST | RCPT | 20 A | 1 | | 0.7 | 0.4 | | 1 | 20 A | MTR | OHD-2 | 4 |
| 5 | A102 | RCPT: NORTH... | RCPT | 20 A | 1 | | | 0.9 | 0.4 | 1 | 20 A | MTR | OHD-3 | 6 |
| 7 | A102 | RCPT: SOUTH, EAST | RCPT | 20 A | 1 | 0.9 | 0.4 | | | 1 | 20 A | MTR | OHD-4 | 8 |
| 9 | CO PANELS | Other | 20 A | 1 | | 0.0 | 0.4 | | | 1 | 20 A | MTR | OHD-5 | 10 |
| 11 | A102 | RCPT | RCPT | 20 A | 2 | | | 0.3 | 0.4 | 1 | 20 A | MTR | OHD-6 | 12 |
| 13 | -- | -- | -- | -- | -- | 0.3 | 0.2 | | | 1 | 20 A | MTR | EF-1 EAST BAY | 14 |
| 15 | A101 | RCPT | RCPT | 20 A | 2 | | | 0.3 | 0.5 | 1 | 20 A | MTR | P-3 | 16 |
| 17 | -- | -- | -- | -- | -- | | | 0.3 | 0.3 | 1 | 20 A | MTR | P-4 | 18 |
| 19 | OFFICE A103 | RCPT | RCPT | 20 A | 1 | 1.1 | 0.9 | | | 1 | 20 A | MTR | UH 1-5 | 20 |
| 21 | A105-107 | RCPT | RCPT | 20 A | 1 | | 0.9 | 0.1 | | 1 | 20 A | MTR | B-1 | 22 |
| 23 | A101 | LTG | LTG... | 20 A | 1 | | | 1.3 | 0.1 | 1 | 20 A | MTR | WH-1 | 24 |
| 25 | A102 | LTG | LTG... | 20 A | 1 | 1.1 | 0.4 | | | 1 | 20 A | MTR | DF 1-8 | 26 |
| 27 | A103-A107 | LTG | LTG | 20 A | 1 | | | 0.5 | 1.2 | 1 | 20 A | MTR | FC-1 | 28 |
| 29 | MICROWAVE | RCPT | RCPT | 20 A | 1 | | | 0.2 | 1.9 | 3 | 20 A | MTR | CU-1 | 30 |
| 31 | BREAKROOM A104 | RCPT | RCPT | 20 A | 1 | 0.7 | 1.9 | | | -- | -- | -- | -- | 32 |
| 33 | REF | RCPT | RCPT | 20 A | 1 | | 0.2 | 1.9 | | -- | -- | -- | -- | 34 |
| 35 | SPARE | -- | 20 A | 1 | | | | 0.0 | 2.3 | 3 | 30 A | MTR | MAU-1 | 36 |
| 37 | SPARE | -- | 20 A | 1 | 0.0 | 2.3 | | | | -- | -- | -- | -- | 38 |
| 39 | SPARE | -- | 20 A | 1 | | 0.0 | 2.3 | | | -- | -- | -- | -- | 40 |
| 41 | SPARE | -- | 20 A | 1 | | | | 0.0 | 0.0 | 1 | 20 A | -- | SPARE | 42 |
| 43 | SPARE | -- | 20 A | 1 | 0.0 | 1.7 | | | | 3 | 20 A | MTR | P-2 | 44 |
| 45 | SPARE | -- | 20 A | 1 | | 0.0 | 1.7 | | | -- | -- | -- | -- | 46 |
| 47 | SPARE | -- | 20 A | 1 | | | | 0.0 | 1.7 | -- | -- | -- | -- | 48 |
| 49 | SPARE | -- | 20 A | 1 | 0.0 | 1.7 | | | | 3 | 20 A | MTR | EF-2 | 50 |
| 51 | SPARE | -- | 20 A | 1 | | 0.0 | 1.7 | | | -- | -- | -- | -- | 52 |
| 53 | SPARE | -- | 20 A | 1 | | | | 0.0 | 1.7 | -- | -- | -- | -- | 54 |
| 55 | SPARE | -- | 20 A | 1 | 0.0 | 1.6 | | | | 3 | 20 A | MTR | MAU-2 | 56 |
| 57 | SPARE | -- | 20 A | 1 | | 0.0 | 1.6 | | | -- | -- | -- | -- | 58 |
| 59 | SPARE | -- | 20 A | 1 | | | | 0.0 | 1.6 | -- | -- | -- | -- | 60 |
| 61 | SPARE | -- | 20 A | 1 | 0.0 | 1.4 | | | | 3 | 20 A | MTR | P-1 | 62 |
| 63 | SPARE | -- | 20 A | 2 | | | | 0.0 | 1.4 | -- | -- | -- | -- | 64 |
| 65 | -- | -- | -- | -- | -- | | | 0.0 | 1.4 | -- | -- | -- | -- | 66 |
| 67 | SPARE | -- | 20 A | 2 | 0.0 | 1.7 | | | | 3 | 20 A | MTR | EF-1 | 68 |
| 69 | -- | -- | -- | -- | -- | 0.0 | 1.7 | | | -- | -- | -- | -- | 70 |
| 71 | SPARE | -- | 20 A | 3 | | | | 0.0 | 1.7 | -- | -- | -- | -- | 72 |
| 73 | -- | -- | -- | -- | -- | 0.0 | | | | -- | -- | -- | -- | 74 |
| 75 | -- | -- | -- | -- | -- | 0.0 | | | | -- | -- | -- | -- | 76 |
| 77 | SPARE | -- | 30 A | 2 | | | | 0.0 | | -- | -- | -- | -- | 78 |
| 79 | -- | -- | -- | -- | -- | 0.0 | | | | -- | -- | -- | -- | 80 |
| 81 | SPARE | -- | 30 A | 2 | | | | 0.0 | | -- | -- | -- | -- | 82 |
| 83 | -- | -- | -- | -- | -- | 0.0 | | | | -- | -- | -- | -- | 84 |
| TOTAL LOAD: | | | 19 kVA | 17 kVA | 16 kVA | | | | | | | | | |
| TOTAL AMPS: | | | 162 A | 145 A | 134 A | | | | | | | | | |
| LOAD CLASSIFICATION | CONNECTED | DEMAND | ESTIMATED | PANEL TOTALS | | | | | | | | | | |
| LTG | 2711 VA | 125.00% | 3389 VA | | | | | | | | | | | |
| MTR | 42141 VA | 104.06% | 43861 VA | CONNECTED LOAD: 52466 VA | | | | | | | | | | |
| Other | 0 VA | 0.00% | 0 VA | ESTIMATED DEMAND: 54969 VA | | | | | | | | | | |
| RCPT | 7623 VA | 100.00% | 7623 VA | CONNECTED CURRENT: 146 A | | | | | | | | | | |
| GENERAL LIGHTING | 264 VA | 125.00% | 330 VA | EST. DEMAND CURRENT: 152 A | | | | | | | | | | |

Load Types (LT): COOL - Summer Cooling, ELEV- Elevator, EQ - Equipment, EX - Existing, GND - Grounding, HEAT - Winter Heating, KTCH- Kitchen, L MTR - Largest Motor, LTG - Lighting, MTR - Motor, RCPT - Receptacle
Breaker Types (BT): GF = GFI Breaker, GE = GFI Equipment Breaker (30mA), SH = Shunt Trip Breaker, EX = Existing Breaker
NOTES:
THIS IS A DOUBLE TUB PANEL.



C3 NEW ROCKVILLE PULIC WORKS FACILITY - POWER & SYSTEMS PLAN
1/8" = 1'-0"



C6 MECH ROOM
1/4" = 1'-0"

- GENERAL SHEET NOTES**
- SOME NOTES MAY NOT APPLY TO THIS SHEETS.
 - ALL BOXES, CONDUIT AND WIRING TO BE CONCEALED. NO EXPOSED BOXES, CONDUIT AND WIRING SHALL BE ALLOWED UNLESS NOTED OTHERWISE.
 - COORDINATE DEVICE LOCATIONS WITH OTHER TRADES INCLUDING HVAC EQUIPMENT, DUCTWORK, SPRINKLER PIPING AND BUILDING STRUCTURAL MEMBERS.
 - NO MULTI-BRANCH CIRCUIT ALLOWED. PROVIDE A SEPARATE NEUTRAL WITH EACH CIRCUIT.
 - VERIFY LOCATIONS AND ROUGH-IN REQUIREMENTS OF ALL OWNER FURNISHED EQUIPMENT PRIOR TO ROUGH-IN.
 - CIRCUIT WIRING IS NOT SHOWN EXCEPT FOR SWITCHING INTENT OF FIXTURES AND CONTROL OF DEVICES.
 - GFCI RECEPTACLES SHALL BE WIRED TO PROTECT ONLY THE DEVICES IN THAT OUTLET BOX. DOWNSTREAM DEVICES SHALL NOT BE PROTECTED BY GFCI.
 - CIRCUIT NUMBERS SHOWN ARE FOR SCHEMATIC PURPOSES AND ARE FOR DISTINGUISHING CIRCUITS. RECORD AS-BUILT CIRCUITING IN A TYPED AND DATED PANELBOARD SCHEDULE.
 - COORDINATE HEIGHTS OF ALL DEVICES WITH MILLWORK AND MODULAR FURNITURE SHOP DRAWINGS PRIOR TO ROUGH-IN.
 - ALL RECEPTACLES TO BE TAMPER RESISTANT.
 - SEE BRANCH CIRCUIT CONDUCTOR SIZING SCHEDULE ON SHEET EQ.00.

KEYED SHEET NOTES

- PROVIDE UPSTREAM GFCI PROTECTION DEVICE FOR INDICATED RECEPTACLE.
- PROVIDE NEMA L6-20R RECEPTACLE.
- PROVIDE (2) 2" SLEEVES FROM UNDERGROUND TO ACCESSIBLE CEILING SPACE IN OFFICE FOR FUTURE LOW VOLTAGE CONNECTIONS.
- AREA WITHIN DASHED LINE IS SCOPE PER ALTERNATE NO. 1.
- INDICATED RECEPTACLE IS TO BE REPLACED WITH DUPLEX GFCI RECEPTACLE IF ALTERNATE NO. 1 IS NOT ACCEPTED.

| MOTOR AND EQUIPMENT SCHEDULE | | | | | | | | | | | | | | | | | | | | | | | | | | | |
|------------------------------|------------------|----------|---------|------|---------------|--------|--------|------|------|-----|--------|--------|--------|-----------|-------|----------|-----------|-----------|-----|----------|-----------|------|------|-----|-----------|-------|-------|
| LOAD INFORMATION | | | | | CONDUIT | | | | | | | | | | | | | | | | | | | | | | |
| MTR | DESCRIPTION | LOCATION | LOAD | UNIT | VOLTAGE/PHASE | PANEL | SET(S) | SIZE | TYPE | P-N | PHASE | NEUT | GND | WIRE TYPE | INSUL | SUPPLIED | INSTALLED | TYPE/SIZE | LOC | SUPPLIED | INSTALLED | TYPE | SIZE | LOC | CTRL'S BY | NOTES | MTR |
| OHD | OVERHEAD DOOR | GARAGE | 1/2 | HP | 120/1 | GARAGE | 1 | 3/4" | EMT | 2 | 12 AWG | - | 12 AWG | THHN | CU | - | - | - | - | ELEC | ELEC | MMS | 16A | MTR | ARCH | | OHD |
| WH-1 | WATER HEATER | GARAGE | | | 120/1 | GARAGE | 1 | 3/4" | EMT | 2 | 12 AWG | - | 12 AWG | THHN | CU | - | - | - | - | ELEC | ELEC | MMS | 16A | MTR | ARCH | 1 | WH-1 |
| B-1 | BOILER | GARAGE | | | 120/1 | GARAGE | 1 | 3/4" | EMT | 2 | 12 AWG | - | 12 AWG | THHN | CU | - | - | - | - | ELEC | ELEC | MMS | 16A | MTR | ARCH | 1 | B-1 |
| P-1 | PUMP | GARAGE | 1.5 | HP | 208/1 | GARAGE | 1 | 3/4" | EMT | 2 | 12 AWG | - | 12 AWG | THHN | CU | - | - | - | - | ELEC | ELEC | NFS | 30A | MTR | ARCH | 1 | P-1 |
| P-2 | PUMP | GARAGE | 2 | HP | 208/1 | GARAGE | 1 | 3/4" | EMT | 2 | 12 AWG | 12 AWG | 12 AWG | THHN | CU | ELEC | ELEC | SIZE 0 | MTR | ELEC | ELEC | NFS | 30A | MTR | ARCH | 1 | P-2 |
| P-3 | PUMP | GARAGE | 1/4 | HP | 120/1 | GARAGE | 1 | 3/4" | EMT | 2 | 12 AWG | 12 AWG | 12 AWG | THHN | CU | ELEC | ELEC | SIZE 0 | MTR | ELEC | ELEC | MMS | 16A | MTR | ARCH | 1 | P-3 |
| P-4 | PUMP | GARAGE | 1/10 | HP | 120/1 | GARAGE | 1 | 3/4" | EMT | 2 | 12 AWG | - | 12 AWG | THHN | CU | - | - | - | - | ELEC | ELEC | MMS | 16A | MTR | ARCH | 1 | P-4 |
| MAU-1 | MAKE-UP AIR UNIT | GARAGE | 23.9 | MCA | 208/3 | GARAGE | 1 | 3/4" | EMT | 3 | 12 AWG | 12 AWG | 12 AWG | THHN | CU | - | - | - | - | ELEC | ELEC | NFS | 30A | MTR | ARCH | 1 | MAU-1 |
| MAU-2 | MAKE-UP AIR UNIT | GARAGE | 16.3 | MCA | 208/3 | GARAGE | 1 | 3/4" | EMT | 3 | 12 AWG | 12 AWG | 12 AWG | THHN | CU | - | - | - | - | ELEC | ELEC | NFS | 30A | MTR | ARCH | 1 | MAU-2 |
| UH | UNIT HEATER | GARAGE | 37 | W | 120/1 | GARAGE | 1 | 3/4" | EMT | 2 | 12 AWG | - | 12 AWG | THHN | CU | - | - | - | - | MECH | ELEC | MMS | 16A | MTR | ARCH | | UH |
| EF-1 | EXHAUST FAN | GARAGE | 2 | HP | 208/3 | GARAGE | 1 | 3/4" | EMT | 3 | 12 AWG | 12 AWG | 12 AWG | THHN | CU | ELEC | ELEC | SIZE 0 | MTR | ELEC | ELEC | NFS | 30A | MTR | ARCH | | EF-1 |
| EF-2 | EXHAUST FAN | GARAGE | 2 | HP | 208/3 | GARAGE | 1 | 3/4" | EMT | 3 | 12 AWG | 12 AWG | 12 AWG | THHN | CU | ELEC | ELEC | SIZE 0 | MTR | ELEC | ELEC | NFS | 30A | MTR | ARCH | | EF-2 |
| EF-3 | OVERHEAD DOOR | GARAGE | 24 | W | 120/1 | GARAGE | 1 | 3/4" | EMT | 2 | 12 AWG | - | 12 AWG | THHN | CU | - | - | - | - | ELEC | ELEC | MMS | 16A | MTR | ARCH | 1 | EF-3 |
| DF | DESTRA FAN | GARAGE | 45 | W | 120/1 | GARAGE | 1 | 3/4" | EMT | 2 | 12 AWG | - | 12 AWG | THHN | CU | - | - | - | - | MECH | ELEC | MMS | 16A | MTR | ARCH | 1 | DF |
| FC-1 | FAN COIL UNIT | GARAGE | (2) 1/3 | HP | 120/1 | GARAGE | 1 | 3/4" | EMT | 2 | 12 AWG | - | 12 AWG | THHN | CU | - | - | - | - | ELEC | ELEC | MMS | 16A | MTR | ARCH | 1 | FC-1 |
| CU-1 | CONDENSING UNIT | GARAGE | 19.8 | MCA | 208/3 | GARAGE | 1 | 3/4" | EMT | 3 | 12 AWG | 12 AWG | 12 AWG | THHN | CU | - | - | - | - | ELEC | ELEC | NFS | 30A | MTR | ARCH | 1 | CU-1 |

- MOTOR NUMBERED NOTES**
- PROVIDE AS PART OF ALTERNATE #1.

- MOTOR GENERAL NOTES**
- OBTAIN SHOP DRAWINGS OF EQUIPMENT AND COMPARE CONNECTION, LOAD, AND VOLTAGE INFORMATION TO CONTRACT DOCUMENTS BEFORE INSTALLING FEEDER CONDUITS. NOTIFY ARCHITECT OF ANY DISCREPANCIES BEFORE MAKING EQUIPMENT POWER CONNECTIONS. COMPARE EQUIPMENT NAMEPLATE DATA TO SHOP DRAWINGS AND CONTRACT DOCUMENTS. NOTIFY ARCHITECT/ENGINEER OF ANY DISCREPANCIES.
 - PROVIDE RK1 FUSING FOR FUSIBLE DISCONNECTS SIZED AT 130% OF MOTOR FLC.
 - SIZE OVERLOAD PROTECTION BASED ON ACTUAL NAMEPLATE DATA OF EQUIPMENT.
 - MANUAL MOTOR STARTERS (MMS) TO BE SQUARE D FRACTIONAL HP MANUAL STARTERS WITH MELTING ALLOY TYPE THERMAL OVERLOAD OR APPROVED EQUAL. PROVIDE TOGGLE SWITCH WITH HANDLE GUARD AND RED PILOT LIGHT.
 - WHEN STARTERS ARE PROVIDED BY ELEC PROVIDE A NON-REVERSING FVNR COMBINATION STARTER WITH FUSIBLE DISCONNECT UNLESS NOTED OTHERWISE. PROVIDE 120V CONTROL CIRCUIT WITH TRANSFORMER, (2) AUXILIARY CONTACTS, HOA SELECTOR SWITCH AND RED RUNNING PILOT LIGHT.

I hereby certify that this plan, specification or report was prepared by me or under my direct supervision and that I am a duly Licensed PROFESSIONAL ENGINEER under the laws of the State of MINNESOTA

License: **SITHA CHHUM** Date: **12/18/2020**
Number: **54883**

| Description | Revisions | |
|-------------|-----------|-----|
| | Date | Num |
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| | | |

Comm: **202208**
Date: **12/18/2020**
Drawn: **B. Gallagher**
Check: **R. Hinks**

North

ELECTRICAL POWER & SYSTEMS PLAN

95% CD's / OWNER REVIEW SET
NOT FOR CONSTRUCTION

E2.00

MN

**City of Rockville, Minnesota
Amended Resolution 2020-47**

**A RESOLUTION APPROVING THE ANNUAL PERMIT FOR REFUSE HAULERS
IN THE CITY OF ROCKVILLE**

WHEREAS; Per Section 114.02 LICENSE REQUIRED, Refuse haulers are required to obtain an annual Refuse Hauling license from the City offices; and

WHEREAS; The license shall be issued each January 1 at a fee as set by the Ordinance Establishing Fees and Charges. Licenses shall expire on December 31 of each year; and

WHEREAS; Refuse hauler licenses issued by the City shall be reduced by attrition to no more than two (2) refuse hauling licenses; and

WHEREAS; Refuse Haulers must have a minimum of 100 existing/committed refuse customers in the City limits of the City of Rockville to be eligible to apply and or maintain a Refuse Hauling License; and

WHEREAS; Contingent on the following applicants having fulfilled all requirements necessitated by local or state law for a successful license;

THEREFORE; Rockville City Council approves of the following license for the period of one year from January 1, 2021 to December 31, 2021:

Licensee Name: West Central Sanitation
Business Address: P.O. Box 796
Willmar, MN 56201

Licensee Name: West Central Sanitation
Licensee Address: 4089 Abbott Drive, PO Box 796, Willmar, MN

Adoption by the City Council of the City of Rockville on this 21th day of December, 2020.

ATTEST:

Duane Willenbring, Mayor

Martin M. Bode, Administrator/Clerk