

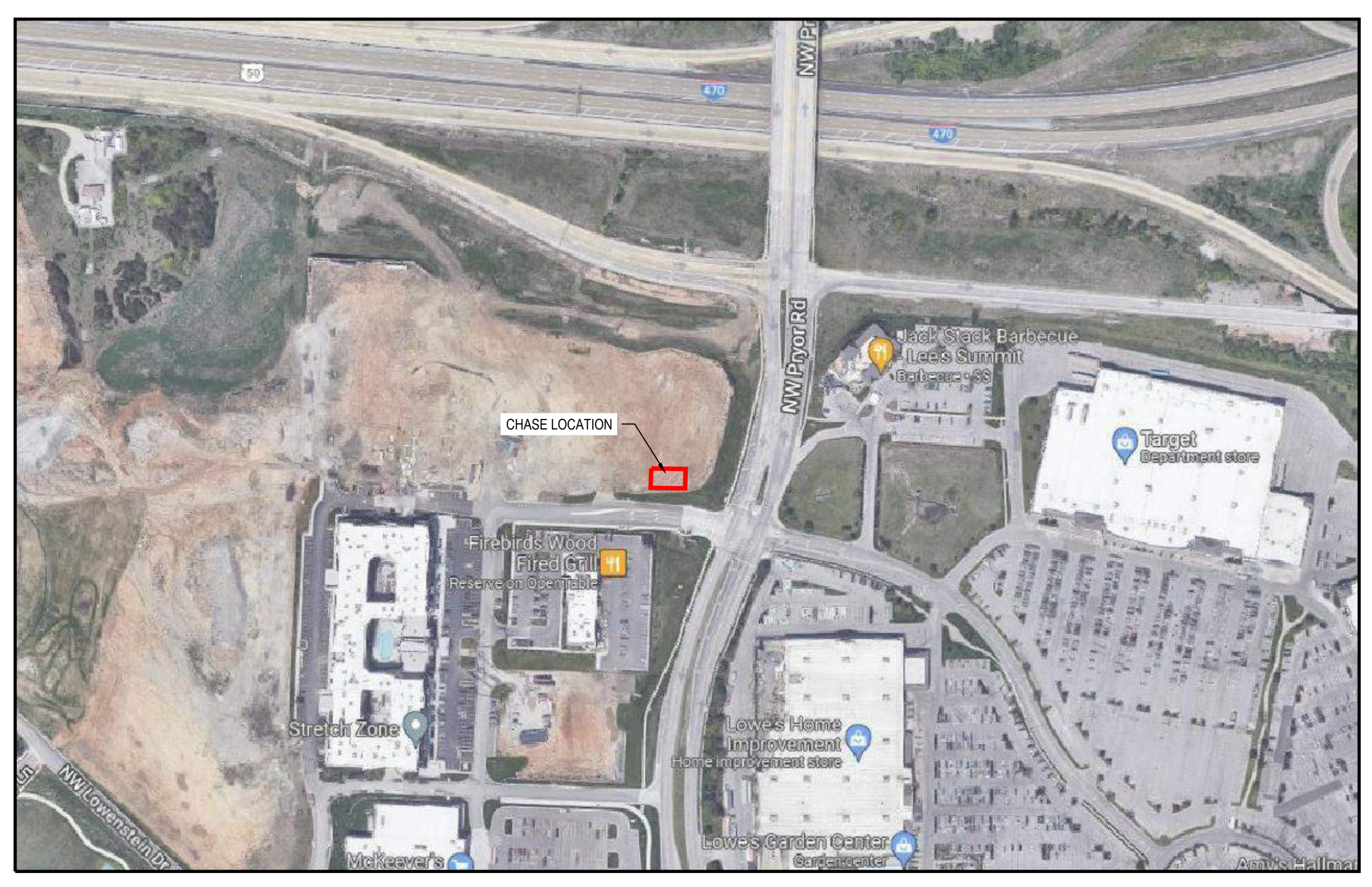


# RETAIL BANKING CENTER PRYOR RD AND LOWENSTEIN DR 908 NW PRYOR RD LEE'S SUMMIT, MO 64081

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SIGNED BY:



### DRAWING SYMBOLS LEGEND

|  |   |
|--|---|
|  | CONSTRUCTION TYPE   |
|  | WINDOW  |
|  | DOOR  |
|  | FINISH MATERIAL   |
|  | EQUIPMENT / FURNITURE / DEVICE  |
|  | EQUIPMENT / FURNITURE / DEVICE  |
|  | EXTERIOR ELEVATION  |
|  | INTERIOR ELEVATION  |
|  | SECTION   |
|  | DETAIL-VERTICAL   |
|  | DETAIL-HORIZONTAL   |
|  | KEYNOTE   |
|  | ROOM / AREA DESIGNATION   |
|  | DRAWING REVISION  |
|  | DRAWING TEXT NOTES INTENDED FOR INCLUSION WITH COMPLETED CONSTRUCTION DOCUMENTS   |
|  | DRAWING TEXT NOTES INDICATING DESIGN-INTENT INFORMATION FOR THE DESIGNER - NOT INTENDED FOR INCLUSION WITH COMPLETED CONSTRUCTION DOCUMENTS |

### GENERAL NOTES

- ALL WORK SHALL BE IN COMPLIANCE WITH APPLICABLE FEDERAL, STATE AND LOCAL BUILDING CODES, REGULATIONS, ORDINANCES AND STANDARDS INCLUDING ADA AND/OR OTHER HANDICAP ACCESSIBILITY CODES.
- THE ARCHITECT OF RECORD SHALL DESIGN, AND THE GENERAL CONTRACTOR SHALL CONSTRUCT, THE BUILDING TO CONFORM TO THE LEAST RESTRICTIVE AND MOST ECONOMICAL I.B.C. CONSTRUCTION TYPE PERMITTED BY AUTHORITIES HAVING JURISDICTION. FOR NEW-CONSTRUCTION "PROTOTYPICAL" PROJECTS, CONSTRUCTION TYPE V-B IS GENERALLY SUFFICIENT. CONSTRUCTION SHALL CONFORM TO I.B.C. 602.1.1 MINIMUM REQUIREMENTS.  
A BUILDING OR PORTION THEREOF SHALL NOT BE REQUIRED TO CONFORM TO THE DETAILS OF A TYPE OF CONSTRUCTION HIGHER THAN THAT TYPE WHICH MEETS THE MINIMUM REQUIREMENTS BASED ON OCCUPANCY EVEN THOUGH CERTAIN FEATURES OF SUCH A BUILDING ACTUALLY CONFORM TO A HIGHER TYPE OF CONSTRUCTION.
- GEN. CONTRACTOR SHALL COORDINATE WITH THE OWNER'S VENDORS REGARDING SCHEDULING AND SEQUENCING OF THE WORK.
- THE CONSTRUCTION NOTES AND DRAWINGS ARE SUPPLIED TO ILLUSTRATE THE DESIGN AND GENERAL TYPE OF CONSTRUCTION DESIRED AND ARE INTENDED TO IMPLY THE FINEST QUALITY OF CONSTRUCTION, MATERIAL AND WORKMANSHIP THROUGHOUT.
- THE DRAWINGS ARE NOT TO BE SCALED. FOR INFORMATION CONCERNING EXISTING CONDITIONS, ETC., VERIFICATION MUST BE DONE IN THE FIELD. LARGE SCALE DRAWINGS HAVE PRECEDENCE OVER SMALL SCALE DRAWINGS.
- PRIOR TO COMMENCEMENT OF ANY CONSTRUCTION, CONTRACTOR SHALL VERIFY EXISTENCE AND LOCATION OF ALL EXISTING ABOVE- AND BELOW-GRADE UTILITIES, INCLUDING SANITARY SEWER, STORM SEWER, WATER, GAS, ELECTRICAL, TELEPHONE, ETC. ANY DISCREPANCIES IN UTILITY LOCATIONS SHALL BE BROUGHT TO THE IMMEDIATE ATTENTION OF THE ARCHITECT. G.C. SHALL BE RESPONSIBLE FOR SET-UP AND COORDINATION OF ALL THE UTILITY SERVICES FOR THE PROJECT.
- GENERAL CONTRACTOR SHALL ALSO OBTAIN FINAL SITE ADDRESS.
- GENERAL CONTRACTOR SHALL BE RESPONSIBLE FOR VERIFICATION OF ALL BUILDING DIMENSIONS PRIOR TO BEGINNING CONSTRUCTION AND SHALL IMMEDIATELY NOTIFY THE ARCHITECT OF ANY VARIANCE OR DISCREPANCY AFFECTING NEW CONSTRUCTION PRIOR TO PROCEEDING WITH WORK.
- CONTRACTOR SHALL PROVIDE ALL NECESSARY BLOCKING IN WALLS FOR SUPPORT OF ALL EQUIPMENT, SHELVING, ACCESSORIES, SIGNAGE, AND OTHER DEVICES REQUIRED.
- ALL PENETRATIONS SHALL RECEIVE CAULKING TO SEAL ANY TYPE OF ENERGY LOSS.
- THE CONTRACTOR SHALL VERIFY AND COORDINATE ALL APPLICABLE DIMENSIONS OF FIXTURES AND EQUIPMENT SUPPLIED AND/OR INSTALLED BY OTHERS.
- UPON COMPLETION OF PROJECT, OBTAIN ALL FINAL INSPECTIONS AS REQUIRED BY LOCAL JURISDICTIONS AND FURNISH OWNER WITH EVIDENCE OF ALL SUCH INSPECTIONS AND CERTIFICATES OF OCCUPANCY.
- GENERAL CONTRACTOR IS RESPONSIBLE FOR ALL SITE CUT & FILL TO ATTAIN FINISH GRADES AS INDICATED ON THESE DRAWINGS. GENERAL CONTRACTOR SHALL INCLUDE THE COST OF ANY TOPSOIL REQUIRED IN ADDITION TO THAT ON SITE, AT THE TIME OF THE PRE-BID MEETING, IN BASE BID.
- GENERAL CONTRACTOR SHALL INCLUDE THE COST OF POWER COMPANY ELECTRICAL TRANSFORMER, PAD, PRIMARY & SECONDARY CONDUITS, AND SECONDARY CABLING IN BASE BID.
- SIGNAGE:
  - GENERAL CONTRACTOR SHALL PROVIDE AND INSTALL ALL CODE-REQUIRED EXTERIOR DIRECTIONAL TRAFFIC SIGNAGE.
  - OWNER'S SIGNAGE VENDOR SHALL PROVIDE AND INSTALL ALL NON-CODE-REQUIRED SITE DIRECTIONAL AND EQUIPMENT INSTRUCTIONAL SIGNAGE.
  - UNLESS OTHERWISE DIRECTED BY THE OWNER, GENERAL CONTRACTOR SHALL PROVIDE AND INSTALL ALL BASE WORK FOR SITE MONUMENT AND/OR PYLON SIGN(S), INCLUDING EXCAVATION, CONCRETE FOUNDATION, SIGN BASE VENEER/FINISH AND CAP WHEN REQUIRED, ELECTRICAL ROUGH-IN AND WIRING TO BASE-MOUNTED SIGN JUNCTION BOX, FINISH GRADING AND LANDSCAPING.
  - OWNER'S SIGN CONTRACTOR SHALL PROVIDE AND INSTALL BUILDING EXTERIOR AND SITE BRAND SIGNAGE, AND MAKE FINAL ELECTRICAL CONNECTIONS FROM SIGN JUNCTION BOXES.
  - OWNER'S SIGN VENDOR SHALL PROVIDE AND INSTALL ALL INTERIOR BRAND, ROOM IDENTIFICATION, AND ACCESSIBILITY SIGNAGE. GENERAL CONTRACTOR SHALL PROVIDE AND INSTALL BLOCKING AS REQUIRED FOR SIGNAGE SUPPORT AND ELECTRICAL ROUGH-IN AND WIRING TO ALL POWERED SIGNS FOR FINAL CONNECTION BY THE OWNER'S SIGNAGE VENDOR.
- GENERAL CONTRACTOR TO PROVIDE FOUR (4) 30 YARD DUMPSTERS DURING CHASE RETAIL MOVE-IN.
- GENERAL CONTRACTOR SHALL PROVIDE ONE SKILLED LABORER FOR ONE WEEK DURING CHASE RETAIL MOVE-IN, (40 HOURS).
- GENERAL CONTRACTOR SHALL PERFORM A TOPOGRAPHIC SURVEY PRIOR TO STARTING CONSTRUCTION AND REPORT ANY DISCREPANCIES IN GRADES AS COMPARED TO EXISTING GRADES INDICATED ON CIVIL DRAWINGS. SUBMIT A COPY OF TOPOGRAPHIC SURVEY TO ARCHITECT AND INDICATE ANY DISCREPANCIES ON SURVEY PRIOR TO COMMENCING EARTHWORK.
- ALL EXTERIOR FLOOR PLAN DIMENSIONS ARE TO EXTERIOR FACE OF FINISH UNLESS OTHERWISE NOTED. ALL INTERIOR FLOOR PLAN DIMENSIONS ARE TO FACE OF FINISH UNLESS OTHERWISE NOTED.

### ABBREVIATIONS

| GENERAL ABBREVIATIONS                       | PSF   | POUNDS PER SQUARE FOOT    |
|---|-------|---------------------------|
| A ANNEALED                                  | PT    | PRESSURE TREATED          |
| AC AIR CONDITIONING                         | PTD   | PAINTED                   |
| ACM ALUMINUM COMPOSITE MATERIAL             | QT    | QUARRY TILE               |
| ACT ACOUSTIC CEILING TILE                   | R     | RADIUS                    |
| AF ABOVE FINISH FLOOR                       | REBAR | REINFORCING BAR           |
| AHJ AUTHORITY HAVING JURISDICTION           | REF   | REFERENCE                 |
| AHU AIR HANDLING UNIT                       | REQD. | REQUIRED                  |
| AL ALUMINUM                                 | RO    | ROUGH OPENING             |
| ASPH ASPHALT                                | SB    | SPLASHBLOCK               |
| BMS BUILDING ENERGY MANAGEMENT SYSTEM       | SIM   | SIMILAR                   |
| CJ CONTROL JOINT                            | SPEC  | SPECIFICATION             |
| CLNG CONCRETE MASONRY UNIT                  | SS    | STAINLESS STEEL           |
| CMU CONCRETE MASONRY UNIT                   | STL   | STEEL                     |
| COL COLUMN                                  | STOR  | STORAGE                   |
| CONC CONCRETE                               | SUSP  | SUSPENDED                 |
| CONT CONTINUOUS                             | T     | TEMPERED                  |
| CPT CARPET                                  | TYP   | TYPICAL                   |
| CT CERAMIC TILE                             | UNO   | UNLESS NOTED OTHERWISE    |
| CL CENTERLINE                               | VCT   | VINYL COMPOSITION TILE    |
| DBL DOUBLE                                  | VERT  | VERTICAL                  |
| DEFS DIRECT-APPLY EXTERIOR FINISH SYSTEM    | WD    | WOOD                      |
| DF DRINKING FOUNTAIN                        | WP    | WATERPROOF                |
| DIA DIAMETER                                | WRB   | WEATHER-RESISTIVE BARRIER |
| DM DIMENSION                                | WWF   | WELDED WIRE FABRIC        |
| DN DOWN                                     |       |                           |
| DS DOWNSPOUT                                |       |                           |
| EA EACH                                     |       |                           |
| EJ EXPANSION JOINT                          |       |                           |
| ELEC ELECTRICAL                             |       |                           |
| ELEV ELEVATION                              |       |                           |
| EQ EQUAL                                    |       |                           |
| EXIST EXISTING                              |       |                           |
| FD FLOOR DRAIN                              |       |                           |
| FE FIRE EXTINGUISHER                        |       |                           |
| FEC FIRE EXTINGUISHER CABINET               |       |                           |
| FF FINISH FLOOR                             |       |                           |
| FR FIRE RATED                               |       |                           |
| FRP FIBERGLASS REINFORCED PLASTIC           |       |                           |
| GALV GALVANIZED                             |       |                           |
| GYP BD GYPSUM BOARD                         |       |                           |
| HC HANDICAP                                 |       |                           |
| H.D. GALV. HOT-DIP GALVANIZED (STEEL)       |       |                           |
| HDW HARDWARE                                |       |                           |
| HM HOLLOW METAL                             |       |                           |
| H.O.P. HIGHEST OPERABLE PART                |       |                           |
| HT HEIGHT                                   |       |                           |
| HVAC HEATING, VENTILATION, AIR CONDITIONING |       |                           |
| INSUL INSULATION                            |       |                           |
| JAN, JC JANITOR, JANITOR'S CLOSET           |       |                           |
| JAN, JC JANITOR, JANITOR'S CLOSET           |       |                           |
| MECH MECHANICAL                             |       |                           |
| MFR MANUFACTURER                            |       |                           |
| MIN MINIMUM                                 |       |                           |
| MO MASONRY OPENING                          |       |                           |
| MR MOISTURE RESISTANT                       |       |                           |
| MTL METAL                                   |       |                           |
| NA NOT APPLICABLE                           |       |                           |
| NIC NOT IN CONTRACT                         |       |                           |
| NOM NOMINAL                                 |       |                           |
| NTS NOT TO SCALE                            |       |                           |
| OC ON CENTER                                |       |                           |
| OPP OPPOSITE                                |       |                           |
| PF PRE-FABRICATED                           |       |                           |

PRYOR ROAD & LOWENSTEIN DRIVE  
908 NW PRYOR ROAD  
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CHASE

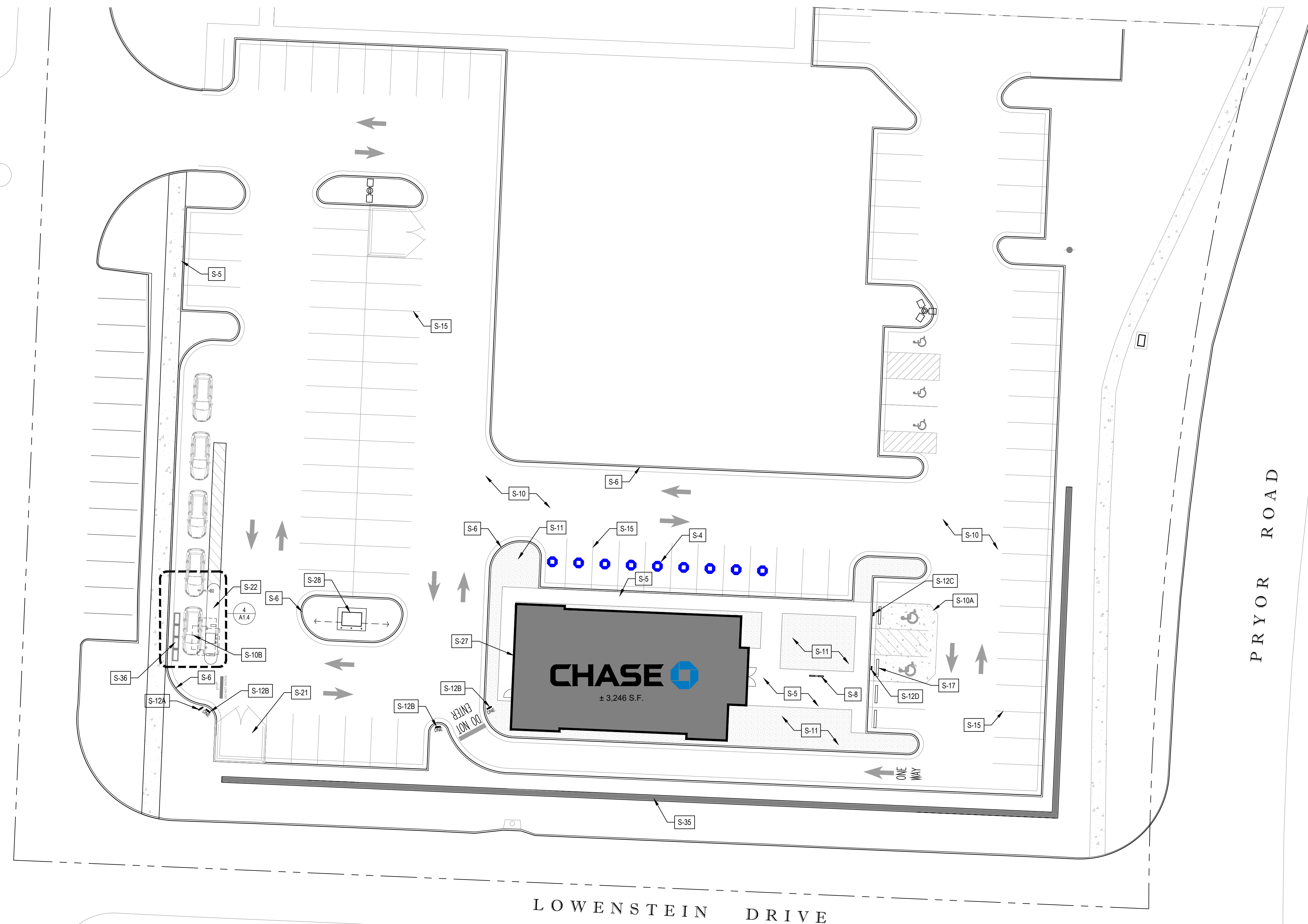
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PROTOTYPE VERSION 20.4

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DRAWING SYMBOLS LEGEND

02/04/2022  
SHEET  
**A0.1**

**SITE PLAN NOTES**

|       |  |
|-------|--|
| S-1   | NOT USED   |
| S-2   | NOT USED   |
| S-2A  | NOT USED   |
| S-3   | NOT USED   |
| S-4   | DEDICATED CHASE CUSTOMER PARKING (CONFIRM QUANTITY WITH LEASE AGREEMENT)   |
| S-5   | EXISTING CONCRETE WALK   |
| S-6   | EXISTING CONCRETE CURB   |
| S-7   | TRASH CAN  |
| S-8   | BICYCLE RACK   |
| S-9   | PEDESTRIAN CROSS-WALK- MAINTAIN ACCESSIBLE PATH OF TRAVEL INCLUDING 5% MAX. RUNNING SLOPE AND 2% MAX. CROSS SLOPE  |
| S-10  | EXISTING PAVEMENT  |
| S-10A | EXISTING ACCESSIBLE PARKING AND ACCESS AISLE PAVEMENT  |
| S-10B | DRIVE-UP CANOPY / ATM CANOPY DRIVE AISLE PAVING: REINFORCED CONCRETE SLAB- EXTEND TO BYPASS LANE OUTSIDE CURB (NOT BY DEVELOPER)   |
| S-11  | EXISTING LANDSCAPING   |
| S-12  | REGULATORY SIGNAGE: AS REQUIRED BY LOCAL ORDINANCE AND FURNISHED BY G.C. UNLESS OTHERWISE NOTED:<br>S-12A: STOP<br>S-12B: DO NOT ENTER<br>S-12C: ACCESSIBLE PARKING<br>S-12D: ACCESSIBLE PARKING (VAN)   |
| S-13  | DIRECTIONAL SIGNAGE: PROVIDED AND INSTALLED BY OWNER'S SIGNAGE VENDOR (NOT BY DEVELOPER)   |
| S-14  | IDENTIFICATION SIGNAGE: PROVIDED AND INSTALLED BY OWNER'S SIGNAGE VENDOR (NOT BY DEVELOPER)<br>S-14A: MONUMENT SIGN: SIZE AND POSITION AS DETERMINED BY MARKET (NOT BY DEVELOPER)<br>S-14B: PYLON SIGN: SIZE AND POSITION AS DETERMINED BY MARKET (NOT BY DEVELOPER)           |
| S-15  | EXISTING PAVEMENT STRIPING   |
| S-16  | TACTILE WARNING SURFACE: AS REQUIRED BY AUTHORITIES HAVING JURISDICTION, INSTALLED IN CONFIGURATIONS AS GENERALLY INDICATED IN THE SITE PLAN AND FABRICATED OF THE MATERIALS AS INDICATED IN THE PROJECT MANUAL SPECIFICATIONS AND PEDESTRIAN CIRCULATION DESIGNER NOTES       |
| S-17  | WHEEL STOP: RECYCLED RUBBER w/ WHITE POLYGONS, MODEL WRF-PWS38 AS MFRD. BY RUBBERFORM OR EQ. PROVIDE WHERE INDICATED ON PLAN AND AT ALL PARKING SPACES NOSING-INTO PEDESTRIAN WALKS NARROWER THAN 5'-0".   |
| S-18  | NOT USED   |
| S-19  | DOWNSPOUT: CONNECT AT GRADE THROUGH CAST IRON HUB TO UNDERGROUND STORMWATER MANAGEMENT SYSTEM  |
| S-20  | NOT USED   |
| S-21  | EXISTING TRASH ENCLOSURE   |
| S-22  | CURB AND CONDUITS BY DEVELOPER ONLY  |
| S-23  | DOWNSPOUT NOZZLE OR CANOPY DOWNSPOUT: SPLASH DIRECT TO SPLASH BLOCK OR CONCRETE SLAB   |
| S-24  | ON-GRADE SPLASH BLOCK: MANUFACTURED STONE VENEER REMNANTS SET FLUSH WITH GRADE AT ALL STORMWATER DOWNSPOUT NOZZLES AND MECHANICAL, PLUMBING OR FIRE PREVENTION SYSTEM DRAINS, HOSE BIBS, ETC. WHERE EROSION MAY OTHERWISE OCCUR  |
| S-25  | STORMWATER DRAINAGE SYSTEM: REFER TO CIVIL ENGINEERING DRAWINGS  |
| S-26  | LIGHT FIXTURE: REFER TO LIGHT FIXTURE SCHEDULE   |
| S-27  | UTILITIES: REFER TO DEVELOPER / EXISTING ENGINEERING DRAWINGS- CONCEAL ALL SERVICES BELOW GRADE: GAS METER, WATER METER, REMOTE-READ, ELECTRICAL CT CABINET, EMERGENCY ELECTRICAL TRANSFER SWITCH, FIRE SPRINKLER TEST VALVE AND TELEPHONE                                     |
| S-28  | EXISTING POWER TRANSFORMER   |
| S-29  | ACCESSIBLE ENTRANCE DIRECTIONAL SIGNAGE: AT PROJECTS WITH MULTIPLE ENTRANCES WHERE ALL ARE NOT ACCESSIBILITY COMPLIANT, PROVIDE ACCESSIBILITY-COMPLIANT DIRECTIONAL SIGNAGE DIRECTING PEDESTRIANS TO THE ACCESSIBLE ENTRANCE (NONE INDICATED ON SAMPLE SITE PLAN)              |
| S-30  | MAIL BOX: PROVIDED ONLY WHERE REQUIRED BY LOCAL U.S.P.S. OFFICE: SALSBURY INDUSTRIES #4350SLV SALSBURY MAIL CHEST WITH PEDESTAL #4385SLV SET IN CAST-IN-PLACE CONCRETE POST BASE AS REQUIRED CONCEALED BELOW LANDSCAPING, OR #4365SLV SURFACE-BOLTED TO EXISTING CONCRETE SLAB |
| S-31  | LANDSCAPE IRRIGATION CONTROL EQUIPMENT   |
| S-32  | ACCESSIBILITY CLEARANCE AREA- SURFACE NOT TO EXCEED 2% SLOPE IN ANY DIRECTION  |
| S-33  | AUTOMATIC DOOR OPERATOR PUSH BUTTON(S) AND 24-HOUR ACCESS CARD READER  |
| S-34  | FLUSH THRESHOLD COMPLIANT WITH ADA ACCESSIBLE PATH OF TRAVEL REQUIREMENTS  |
| S-35  | RETAINING WALL, BY OTHERS  |
| S-36  | ATM SECURITY BARRIER: VERIFY REQUIREMENT WITH ADA&E DESIGN PROJECT MANAGER - REFER TO DETAILS 7-9/A0.3   |



1 ARCHITECTURAL SITE PLAN  
A0.2 1" = 20'



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6/1/2022

**PRYOR ROAD & LOWENSTEIN DRIVE**  
908 NW PRYOR ROAD  
LEE'S SUMMIT, MO 64081

EBI JOB #4121000090

| ISSUE | DATE       | DESCRIPTION      |
|-------|------------|------------------|
| 0     | 03/02/2022 | PERMIT           |
| 1     | 04/11/2022 | PERMIT REVISIONS |



PRYOR & LOWENSTEIN  
PROTOTYPE VERSION 20.4

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ARCHITECTURAL SITE PLAN

02/04/2022  
SHEET

**A0.2**

| PLAN NOTES |   |
|------------|---|
| LS-1       | FIRE EXTINGUISHER CABINET- PREFERRED LOCATION IN REAR CORRIDOR. MEET CODE REQUIREMENTS. DO NOT LOCATE IN 24-HOUR VESTIBULE. |
| LS-1A      | FIRE EXTINGUISHER   |
| LS-2       | EXIT SIGN- REFER TO LIGHT FIXTURE SCHEDULE  |
| LS-2A      | TACTILE EXIT SIGNS- ADHESIVE PLASTIC PLACARD COMPLYING WITH ADA 703 AT EACH EXIT DISCHARGE (IBC 1011.3)                     |

| CHASE BANK - PRYOR RD and LOWENSTEIN DR |                                    |
|---|------------------------------------|
| PROJECT NAME                            | Pryor Rd and Lowenstein Dr         |
| CITY                                    | Lee's Summit                       |
| STATE                                   | MO                                 |
| BUILDING CODE                           | 2018 International Building Code   |
| PLUMBING CODE                           | 2018 International Plumbing Code   |
| MECHANICAL CODE                         | 2018 International Mechanical Code |
| ELECTRICAL CODE                         | 2017 National Electrical Code      |
| ENERGY CODE                             | 2018 International Energy Code     |
| FUEL CODE                               | 2018 International Fuel Gas Code   |
| ACCESSIBILITY CODE                      | ICC/ANSI A117.1-2009               |
| LEASED SF                               | 3,246                              |
| OCCUPANCY CLASSIFICATION                | B - BUSINESS                       |
| CONSTRUCTION TYPE                       | V-B                                |
| SPRINKLERED (YES/NO)                    | No                                 |
| FIRE ALARMS (YES/NO)                    |                                    |

| OCCUPANT LOAD SCHEDULE (TABLE 1004.5) |             |             |               |
|---------------------------------------|-------------|-------------|---------------|
| ROOM NAME                             | AREA (SF)   | LOAD FACTOR | OCCUPANT LOAD |
| LOBBY/OFFICES                         | 3246        | 150         | 22            |
| RESTROOMS                             |             | 0           | 0             |
| STORAGE/MECHANICAL/JAN                |             | 300         | 0             |
| CIRCULATION AREAS                     |             | 200         | 0             |
| UNOCCUPIABLE AREAS                    |             | 0           | 0             |
| <b>Total Gross SF</b>                 | <b>3246</b> |             | <b>22</b>     |

| EGRESS WIDTH (SECTION 1005.3.2) |        |                      |
|---------------------------------|--------|----------------------|
| OCCUPANT LOAD                   | FACTOR | WIDTH REQ'D (INCHES) |
| 22                              | 0.2    | 4.40                 |

| EXIT            | WIDTH | MAX CAPACITY | REQUIRED CAPACITY |
|-----------------|-------|--------------|-------------------|
| MAIN EXIT WIDTH | 68    | 13.60        | 2.2               |
| EXIT #2 WIDTH   | 34    | 6.80         |                   |

| NUMBER OF EXITS REQUIRED (SECTION 1006.2.1.1) |   |  |  |
|---|---|--|--|
| NUMBER OF EXITS REQUIRED                      | 2 |  |  |

| EXIT SEPARATION (SECTION 1007.1.1) |        |                     |                   |
|------------------------------------|--------|---------------------|-------------------|
| DIAGONAL DISTANCE OF SPACE         | FACTOR | REQUIRED SEPARATION | ACTUAL SEPARATION |
| 85                                 | 1/2    | 42.5 FT             | 79'-7"            |

| EXIT TRAVEL DISTANCE IN FEET (SECTION 1017.2) |  |  |  |
|---|--|--|--|
| 200 FT MAX - NON-SPRINKLERED                  |  |  |  |

| CORRIDORS AND AISLE WIDTH (SECTION 1020.2) |                 |      |  |
|--|-----------------|------|--|
| MIN AISLE WIDTH 42"                        |                 |      |  |
| MIN CORRIDOR WIDTH 44"                     | CORRIDOR RATING | 1 HR |  |

| DEMISING WALL RATING (TABLE 508.4) |      |
|------------------------------------|------|
| ADJACENT TENANT MERCANTILE         |      |
| SPRINKLERED BUILDING               | 1 HR |
| NON-SPRINKLERED                    | 2 HR |
| ADJACENT TENANT ASSEMBLY           |      |
| SPRINKLERED BUILDING               | 1 HR |
| NON-SPRINKLERED                    | 2 HR |

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 LEE'S SUMMIT, MO 64081

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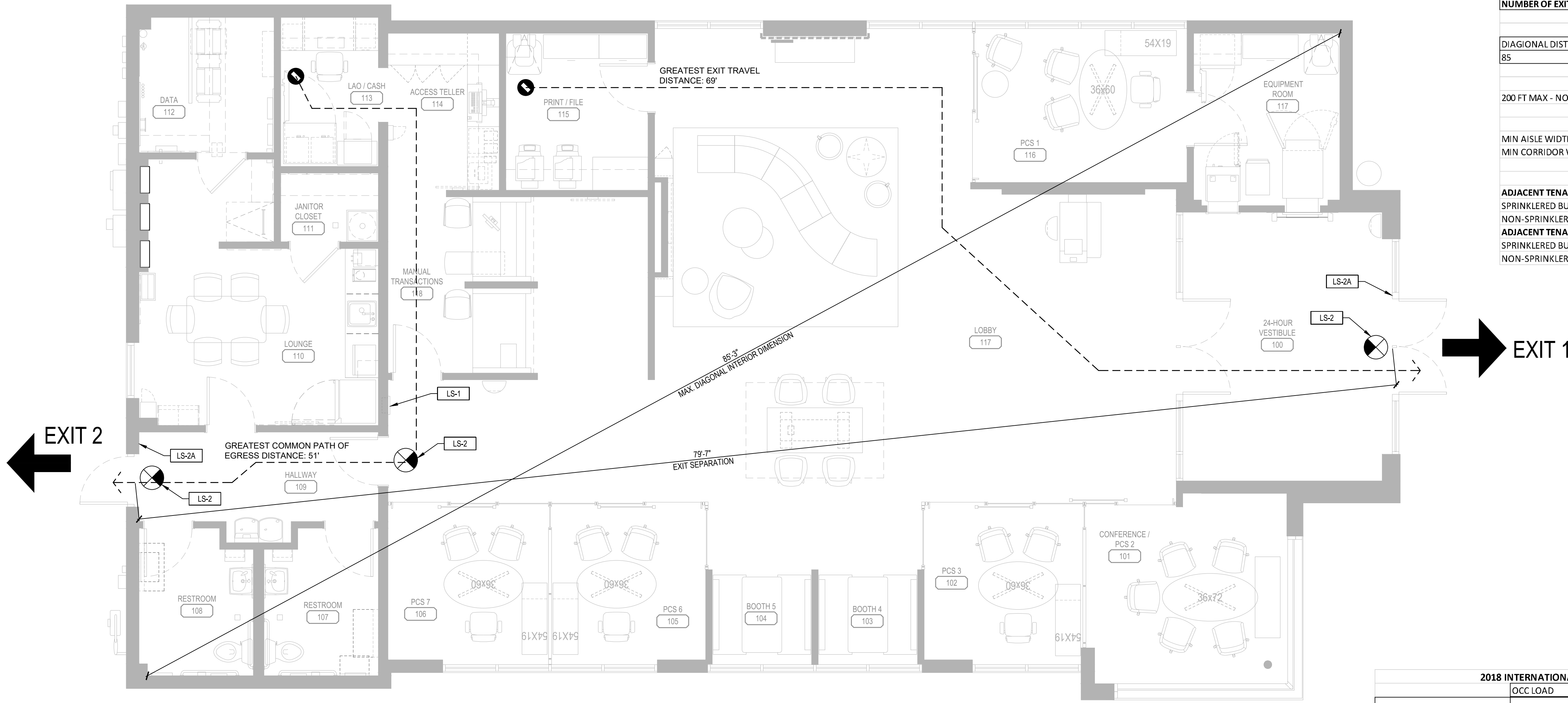


**PRYOR & LOWENSTEIN**  
 PROTOTYPE VERSION 20.4

CONTENTS  
 LIFE SAFETY COMPLIANCE PLAN

02/04/2022  
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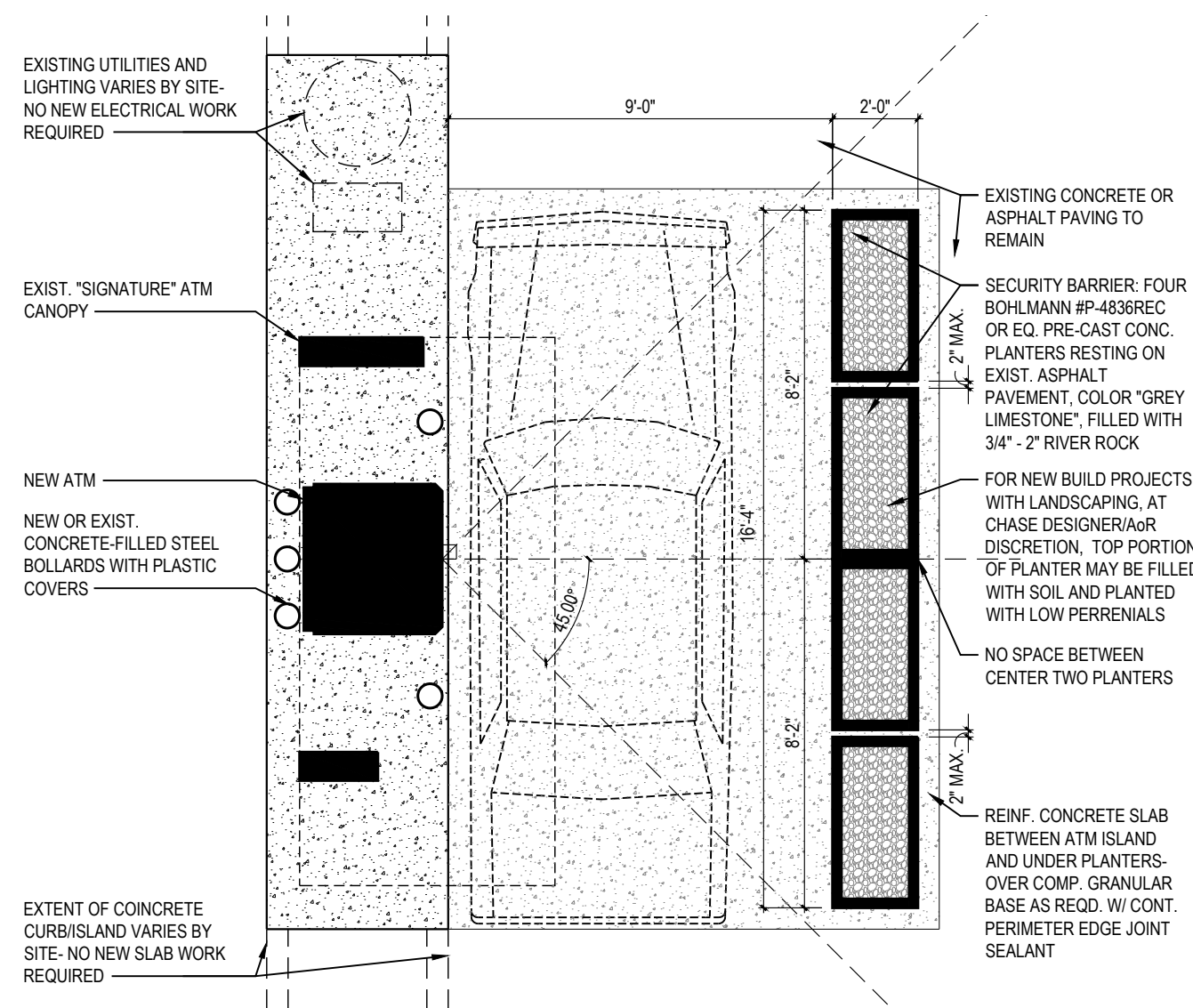
**A0.2.1**



**1**  
**A0.2.1** LIFE SAFETY COMPLIANCE PLAN  
 1/4" = 1'-0"



| 2018 INTERNATIONAL PLUMBING CODE: TABLE 403 |          |  |                        |                        |
|---|----------|--|------------------------|------------------------|
|   | OCC LOAD | FACTOR   | # OF FIXTURES REQUIRED | # OF FIXTURES PROVIDED |
| LAVATORY WOMENS                             |          | 40 OR LESS = 1<br>41-80 = 2<br>81-120 = 3<br>121-160 = 4 | 1                      | 1                      |
| WATER CLOSETS WOMENS                        |          | 25 OR LESS = 1<br>26-50 = 2<br>51-100 = 3<br>101-150 = 4 | 1                      | 1                      |
| LAVATORY MENS                               |          | 40 OR LESS = 1<br>41-80 = 2<br>81-120 = 3<br>121-160 = 4 | 1                      | 1                      |
| WATER CLOSETS MENS                          |          | 25 OR LESS = 1<br>26-50 = 2<br>51-100 = 3<br>101-150 = 4 | 1                      | 1                      |
| URINALS                                     | 11       | 100 OR LESS = 1<br>101-200 = 2<br>201-400 = 3            | 1                      | 0                      |
| DRINKING FOUNTAINS                          | 22       |  | 100                    | 1 Hi/Lo                |
| MOP SINK                                    |          |  |                        | 1                      |



9  
A0.3  
1/4" = 1'-0"

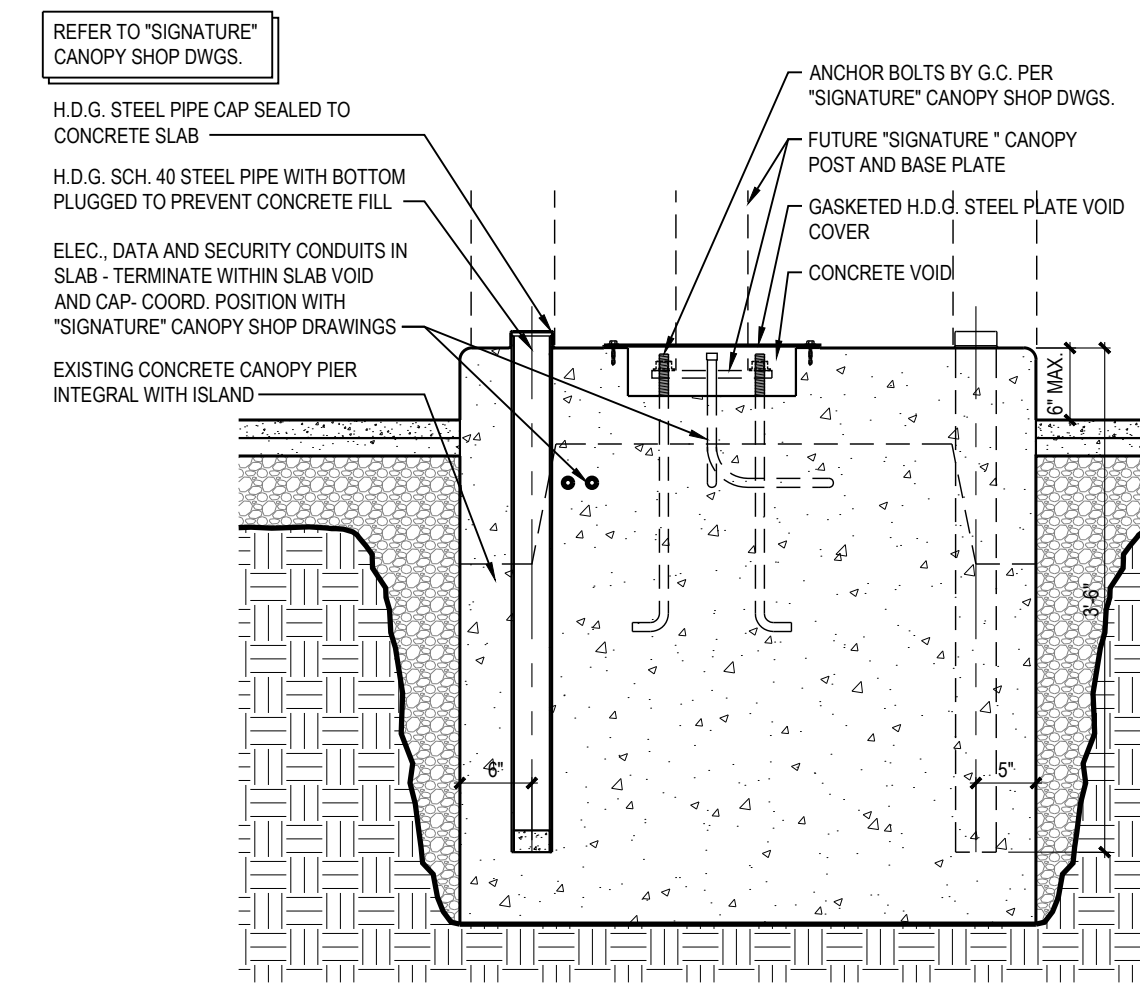
**ATM SECURITY BARRIER-  
PRE-FAB. PLANTER OPTION**

8  
A0.3  
(NOT USED)

7  
A0.3  
(NOT USED)

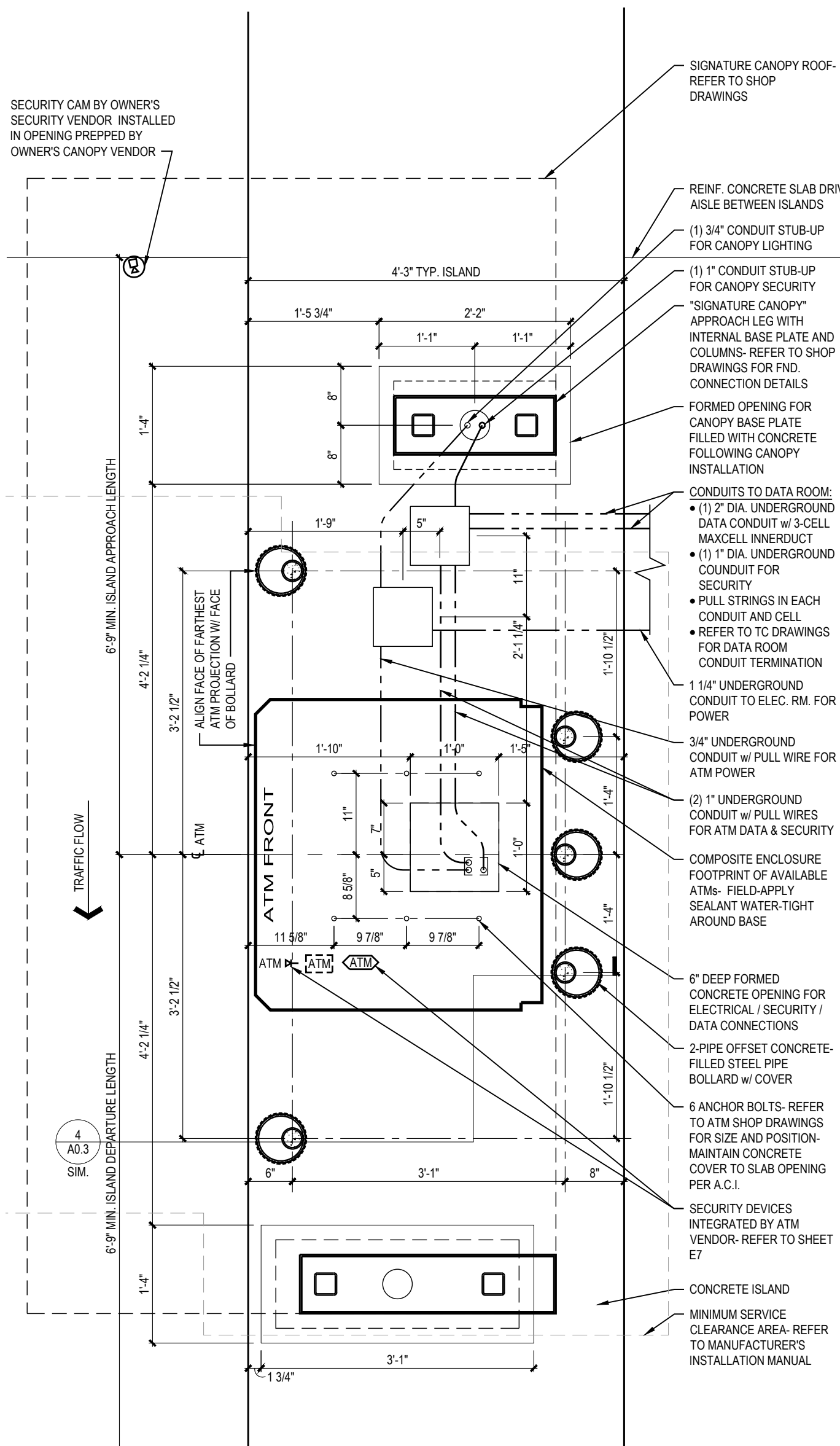
6  
A0.3  
(NOT USED)

3  
A0.3  
(NOT USED)



5  
A0.3  
1/2" = 1'-0"

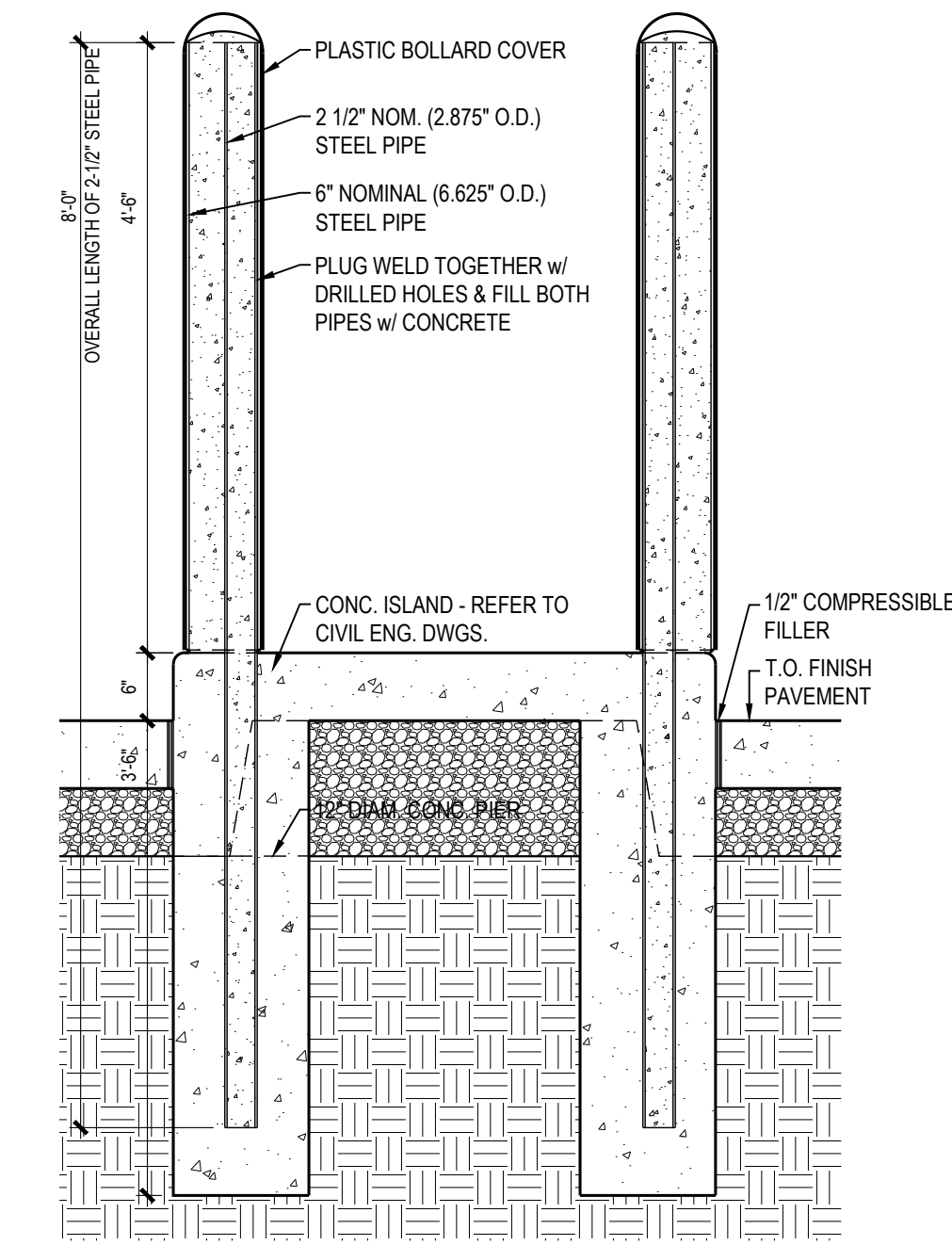
**DRIVE-UP ISLAND SECTION-  
FUTURE ATM**



2  
A0.3  
3/4" = 1'-0"

**DRIVE-UP ISLAND PLAN-  
"SIGNATURE" CANOPY**

2  
A0.3  
3/4" = 1'-0"



4  
A0.3  
3/4" = 1'-0"

**DRIVE-UP ISLAND  
ATM BOLLARD**

1  
A0.3  
(NOT USED)

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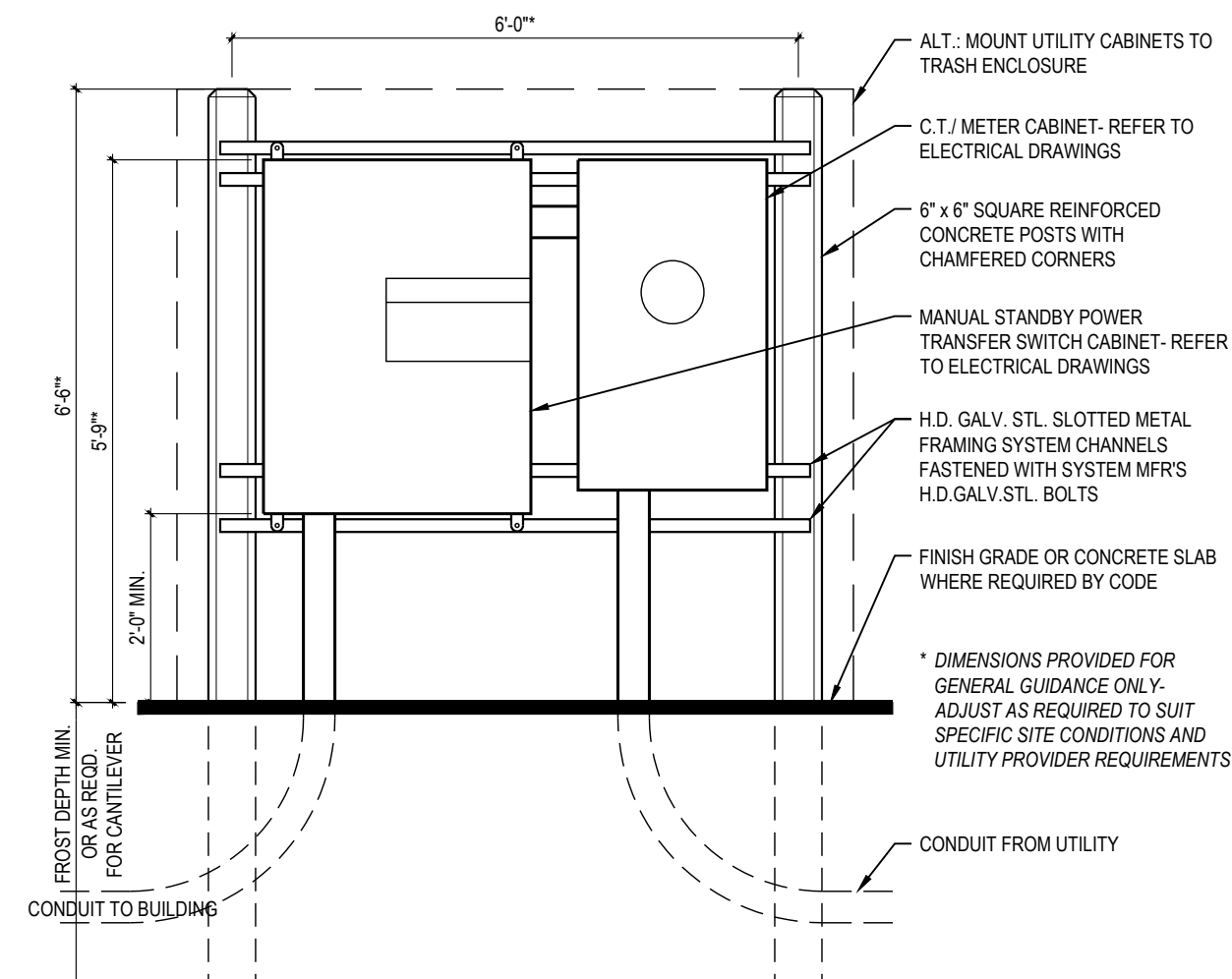
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DRIVE-UP ISLAND AND CANOPY

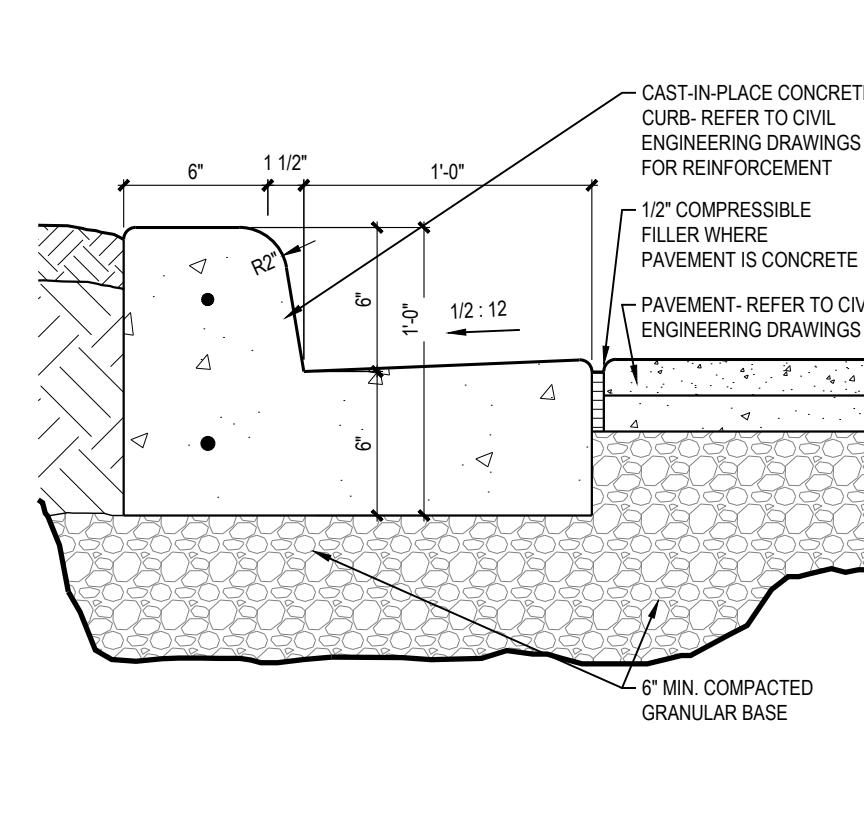
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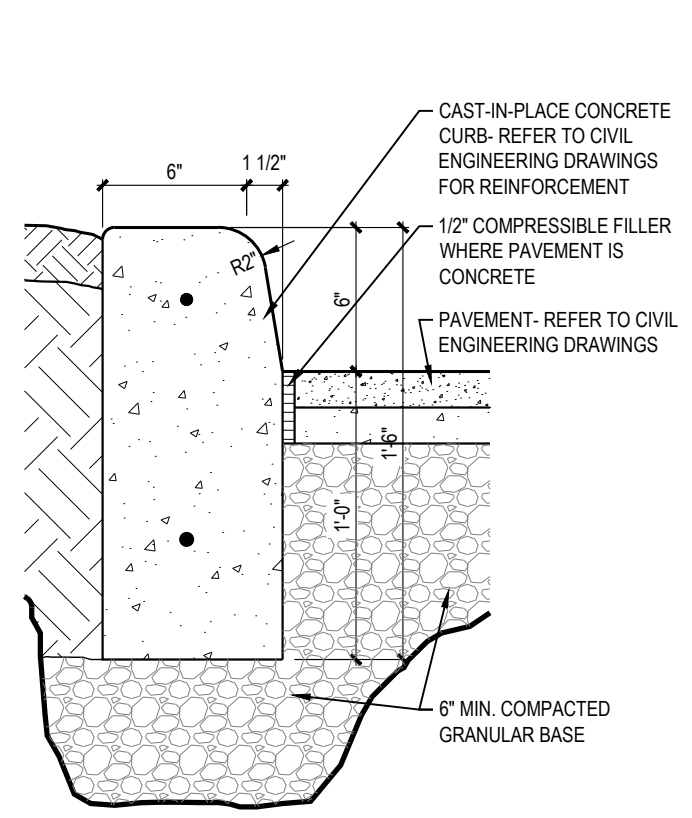
**A0.3**



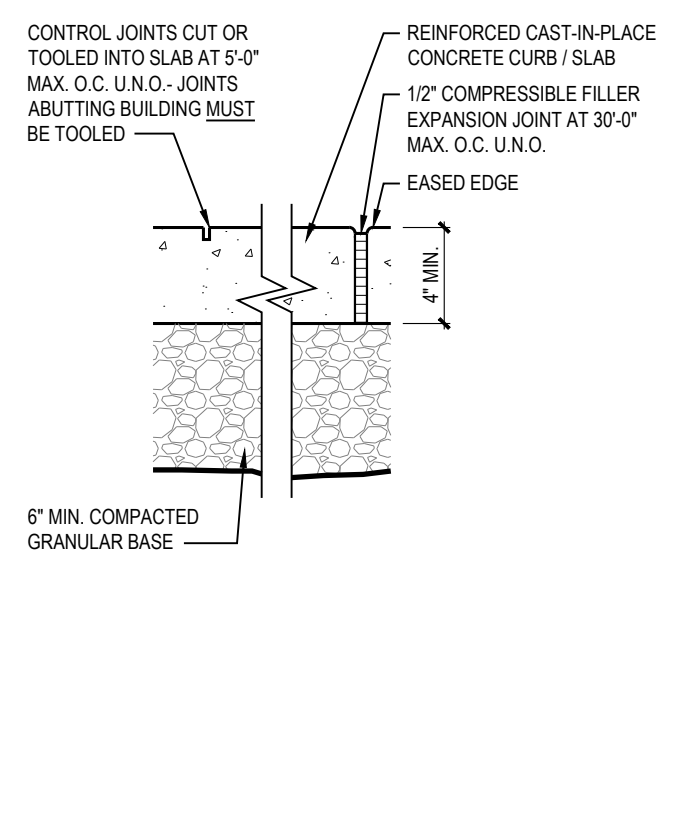
**12**  
A0.4 **REMOTE UTILITY MOUNT**  
1/2" = 1'-0"



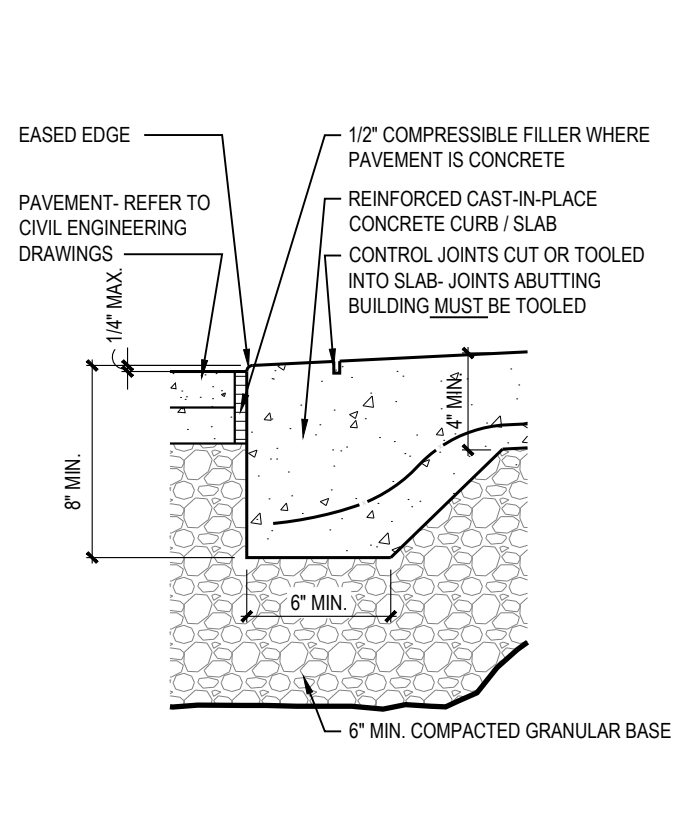
**9**  
A0.4 **B-CURB WITH GUTTER**  
3/4" = 1'-0"



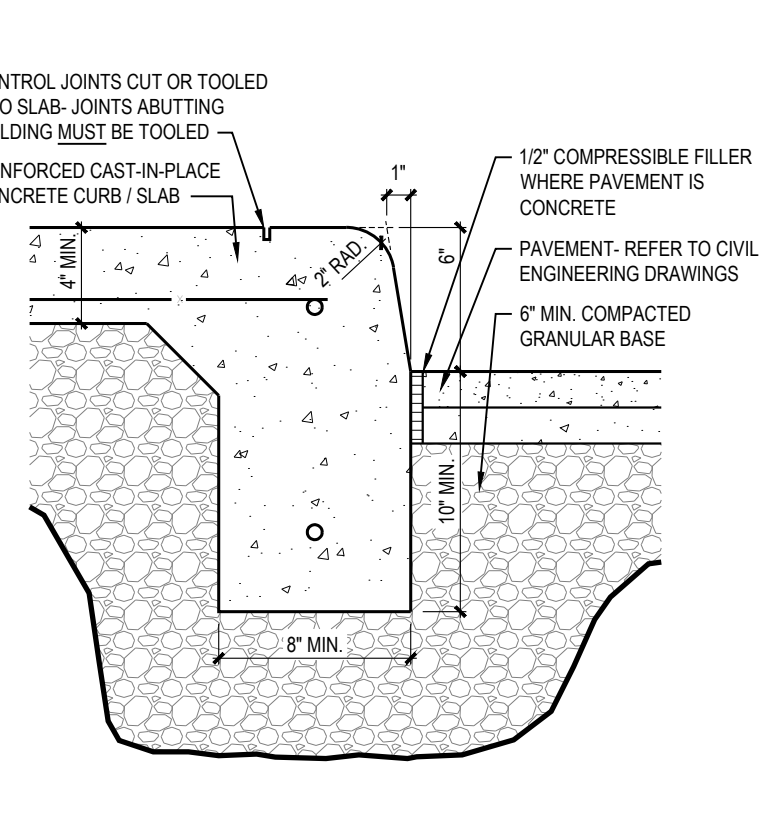
**8**  
A0.4 **BARRIER CURB**  
3/4" = 1'-0"



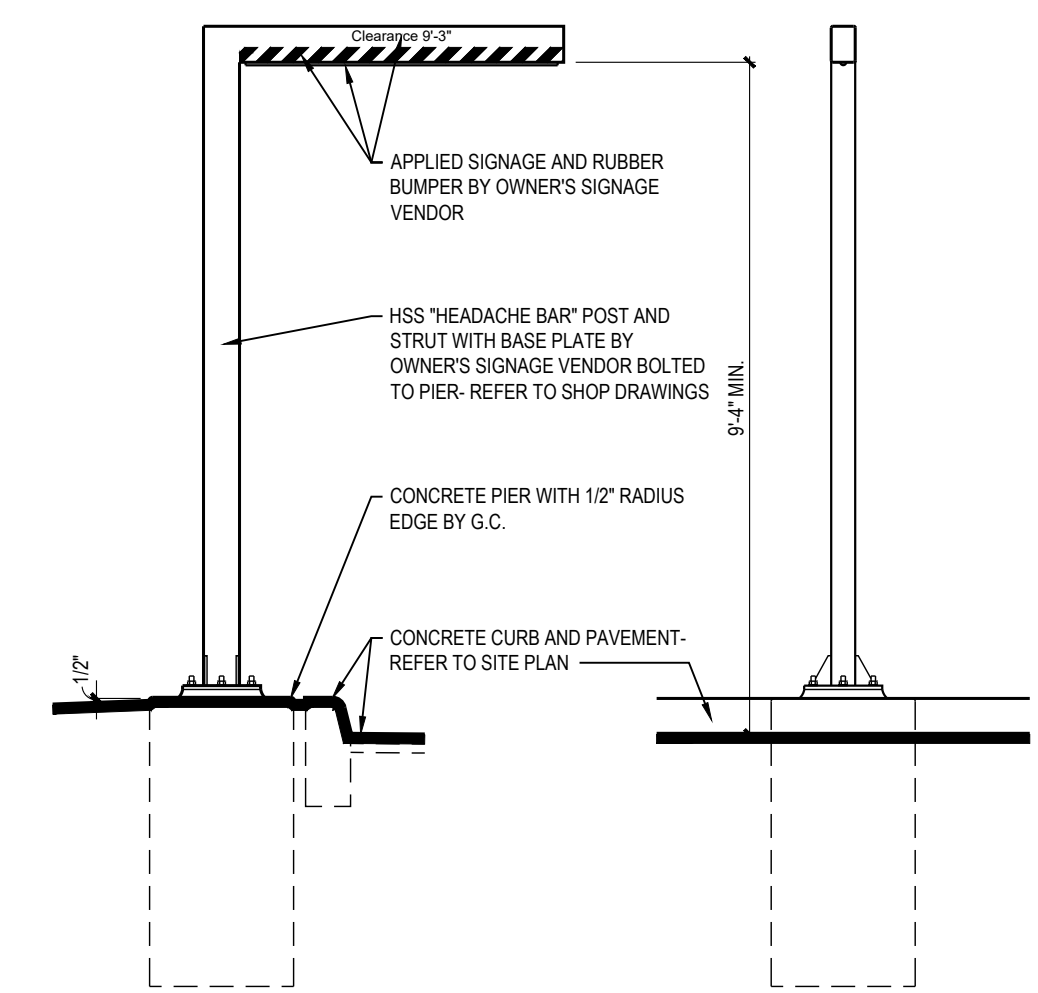
**7**  
A0.4 **PEDESTRIAN WALK EXPANSION JOINT**  
1 1/2" = 1'-0"



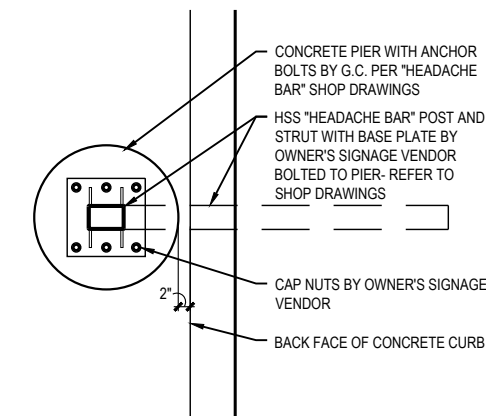
**6**  
A0.4 **FLUSH CURB**  
1 1/2" = 1'-0"



**5**  
A0.4 **PEDESTRIAN WALK CURB**  
1 1/2" = 1'-0"



**11**  
A0.4 **DETACHED DRIVE-UP HEADACHE BAR ELEVATIONS**  
3/8" = 1'-0"



**10**  
A0.4 **DETACHED DRIVE-UP HEADACHE BAR PLAN**  
3/4" = 1'-0"

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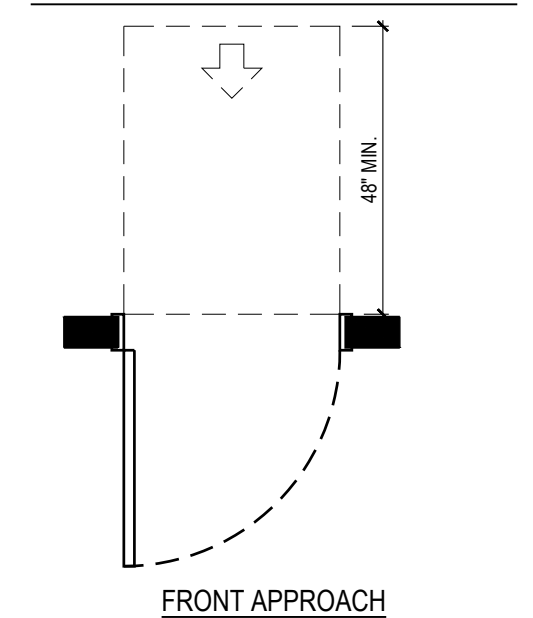
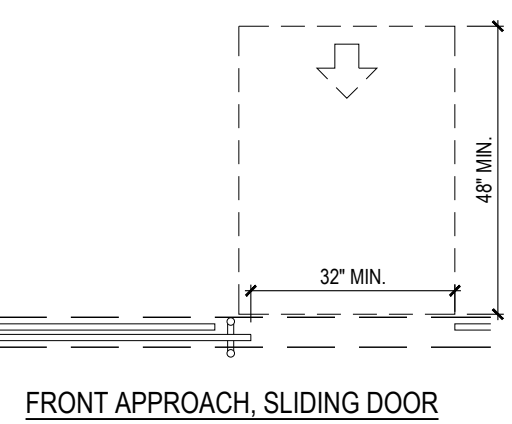
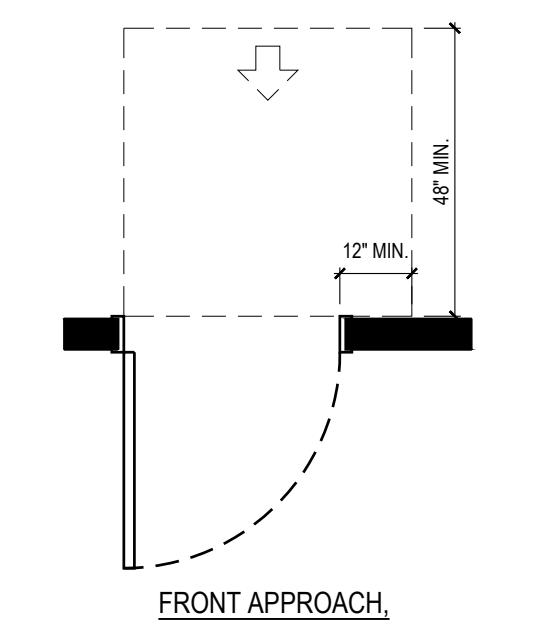
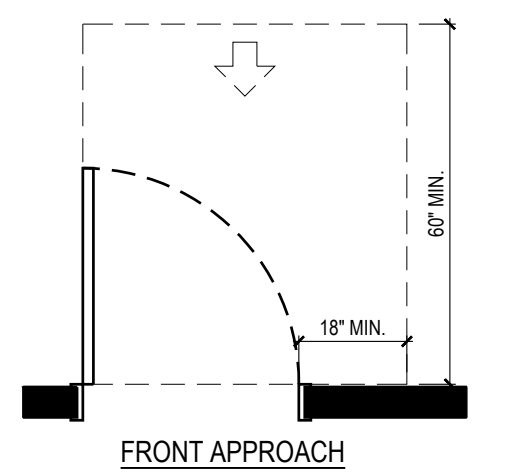
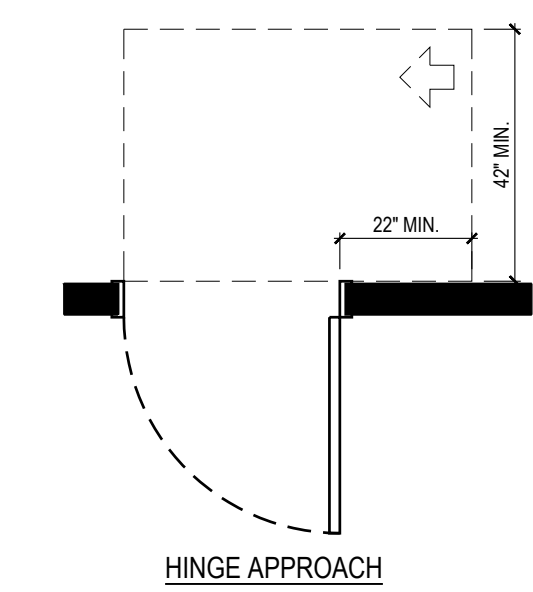
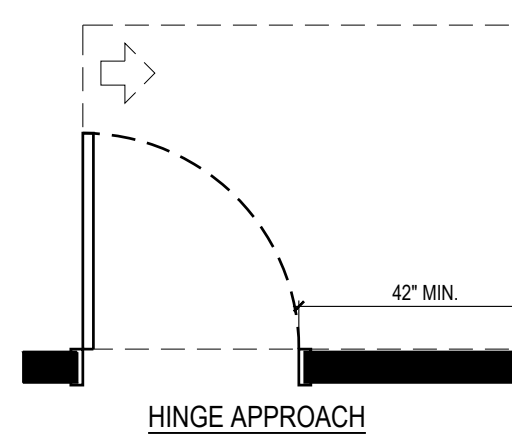
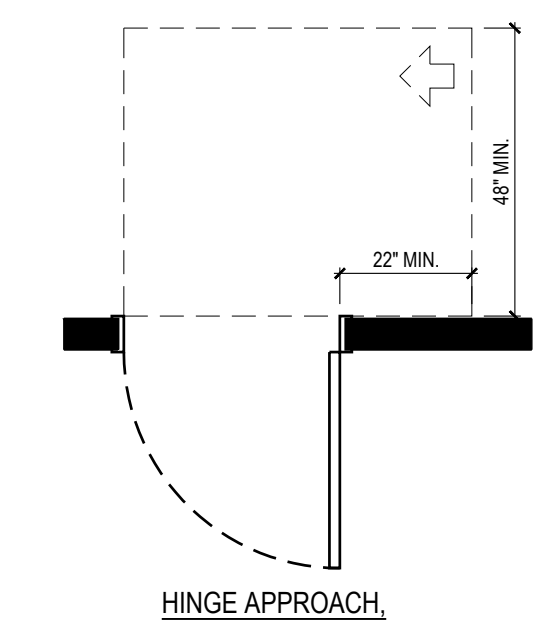
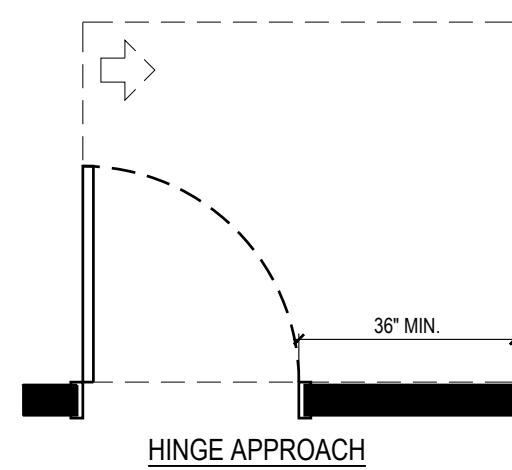
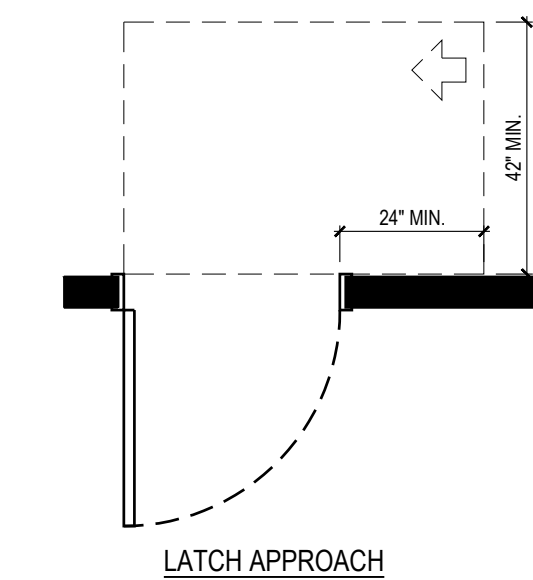
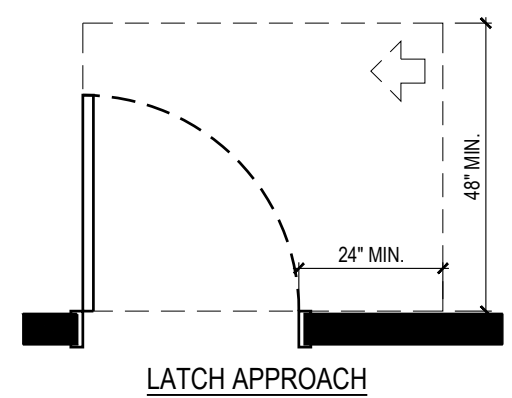
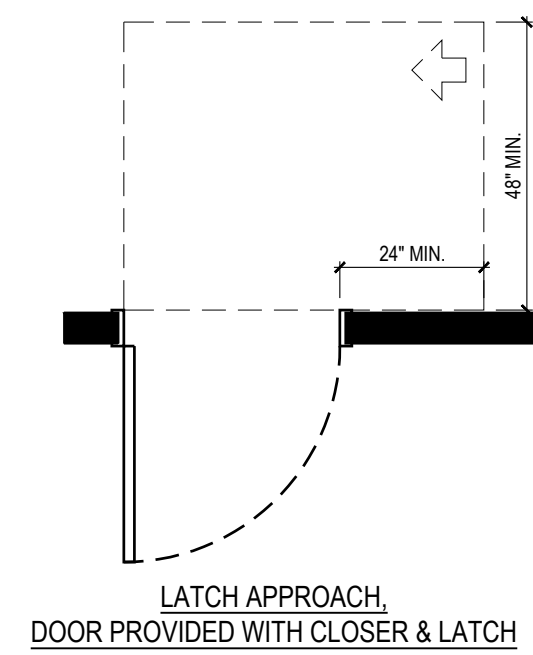
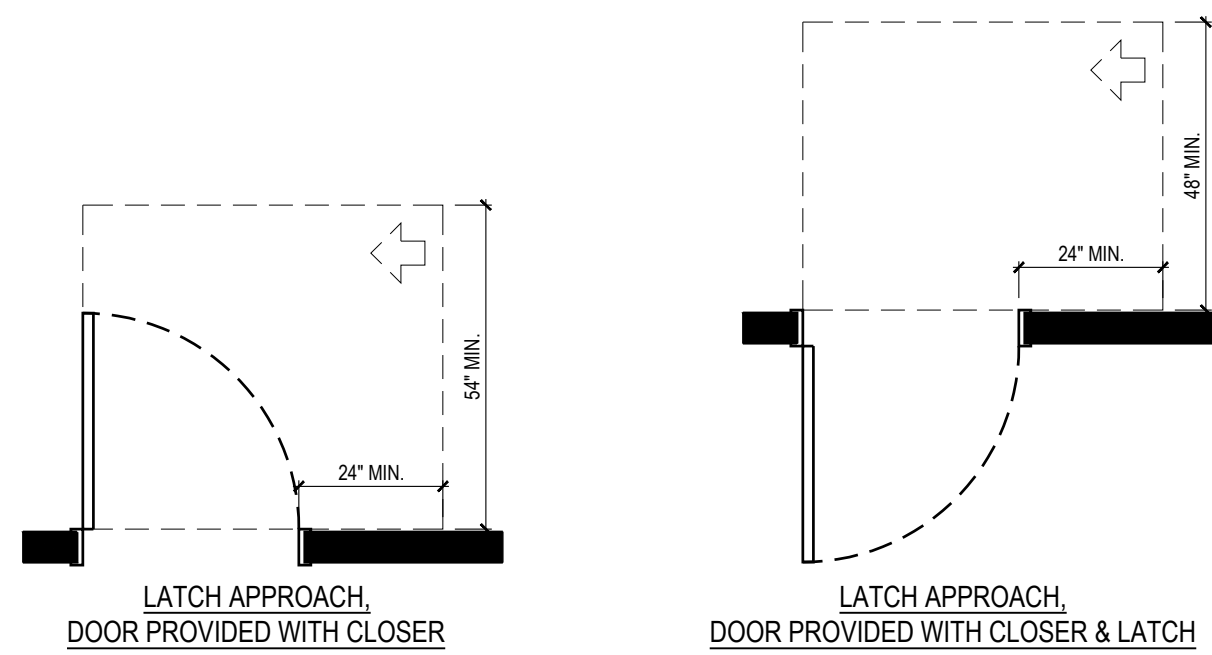


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TRASH ENCLOSURE DETAILS  
SITE PAVING DETAILS  
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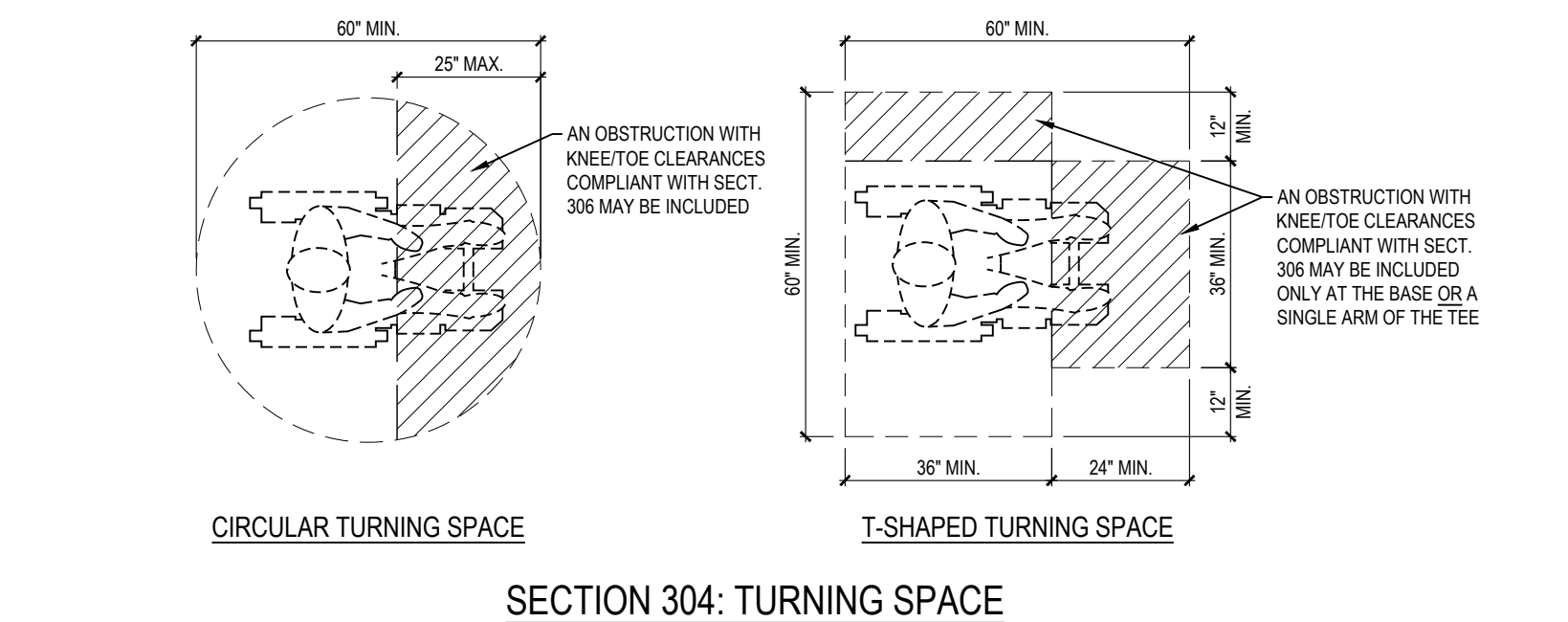
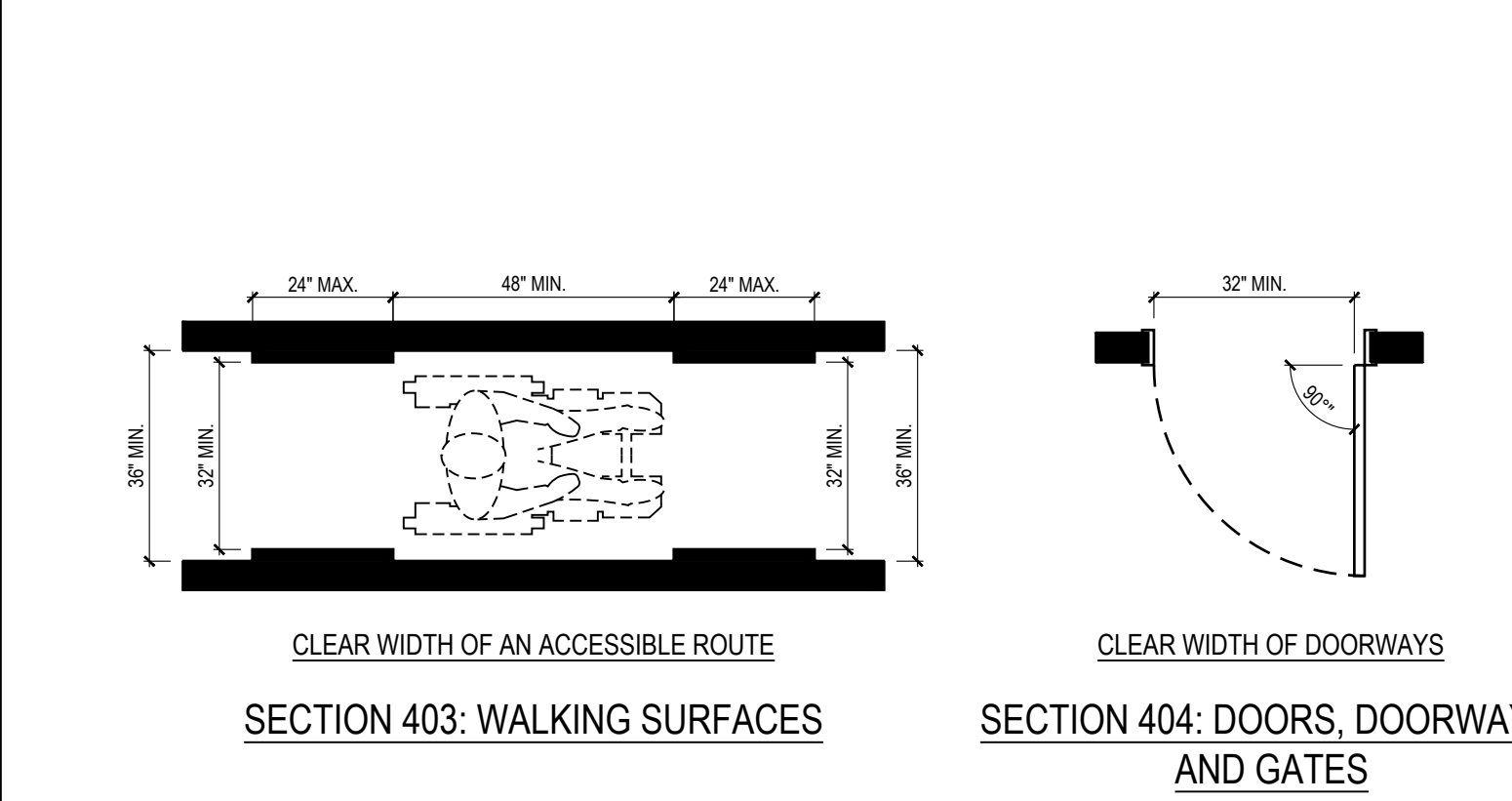
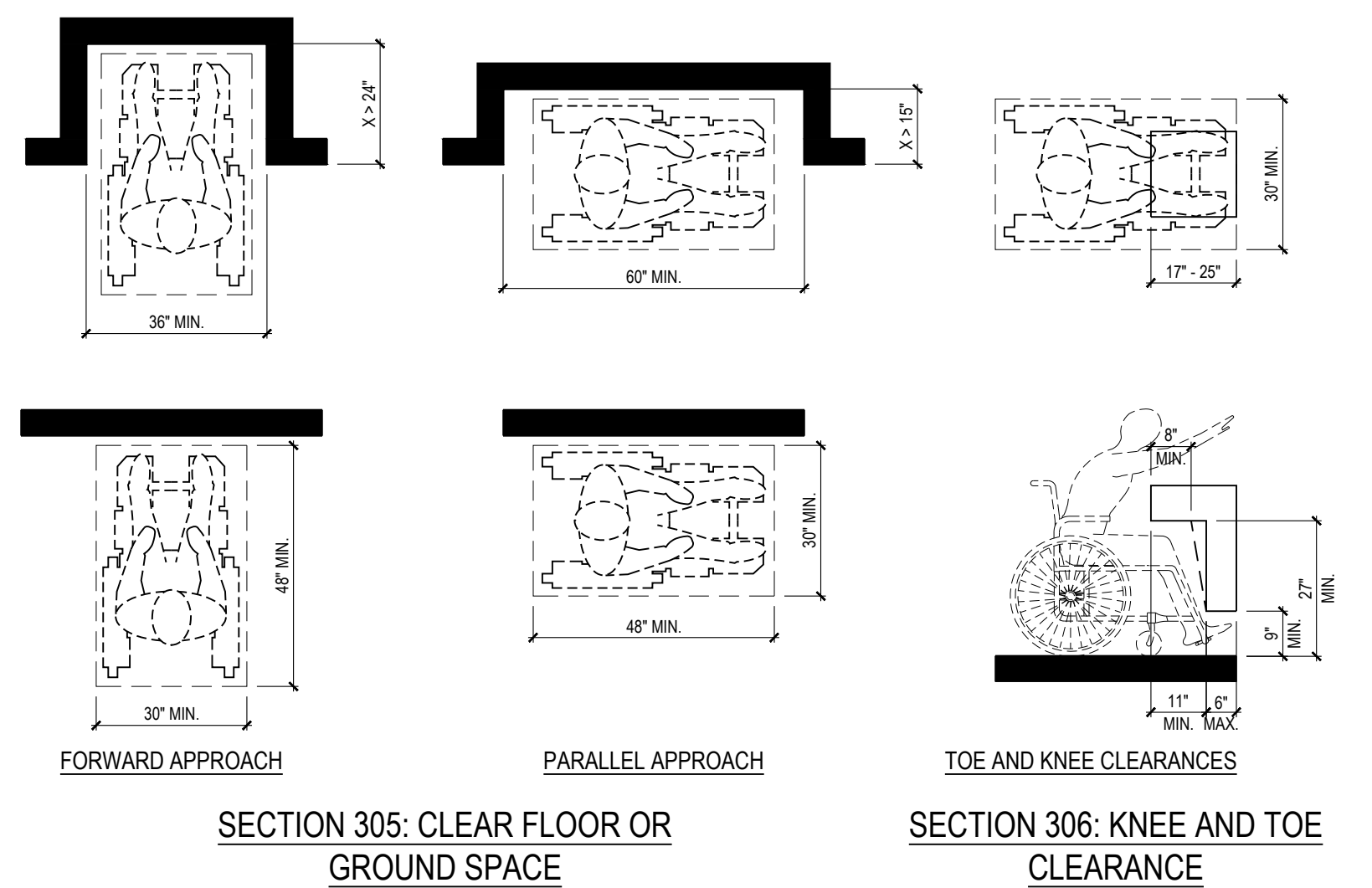
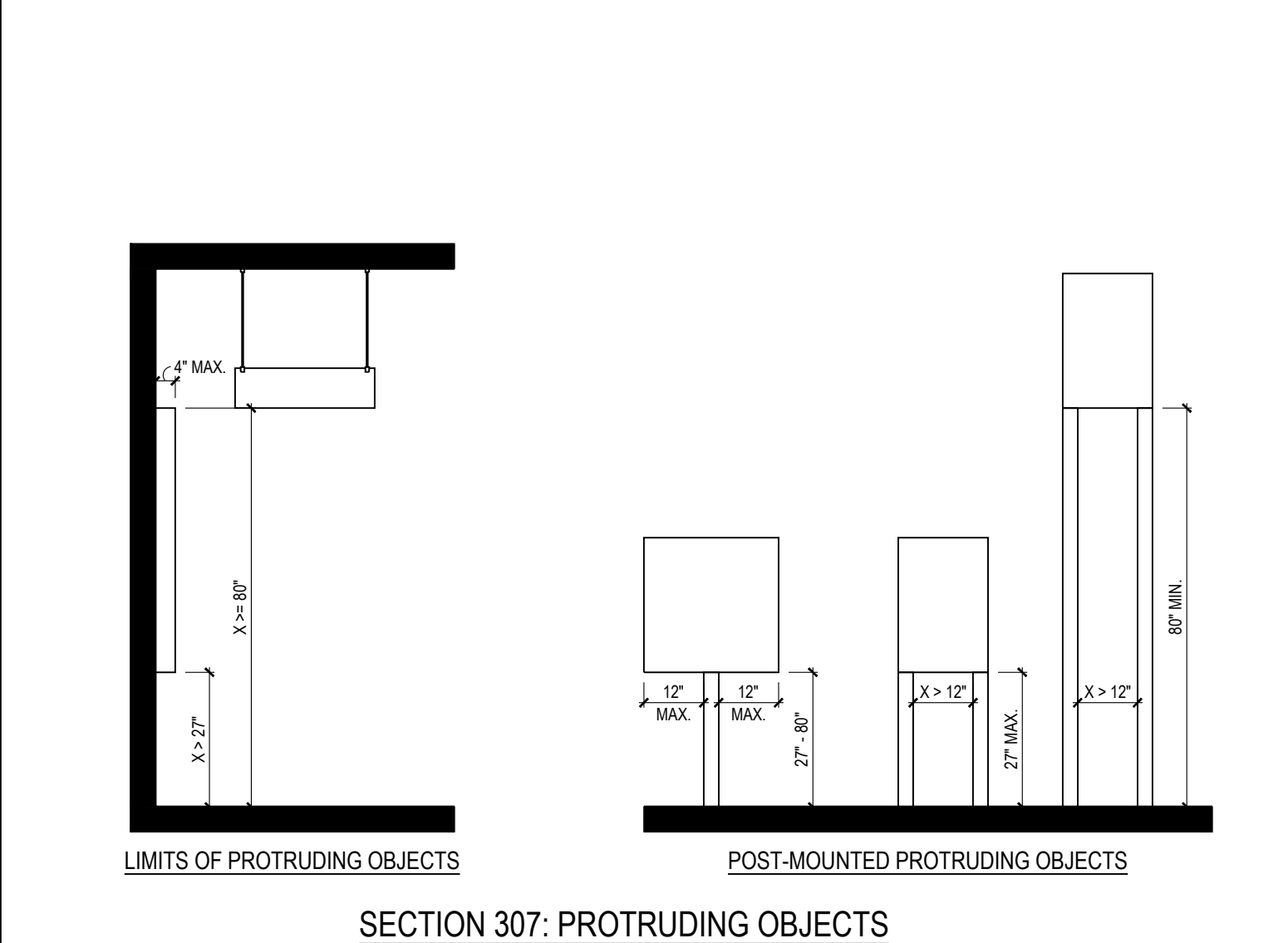
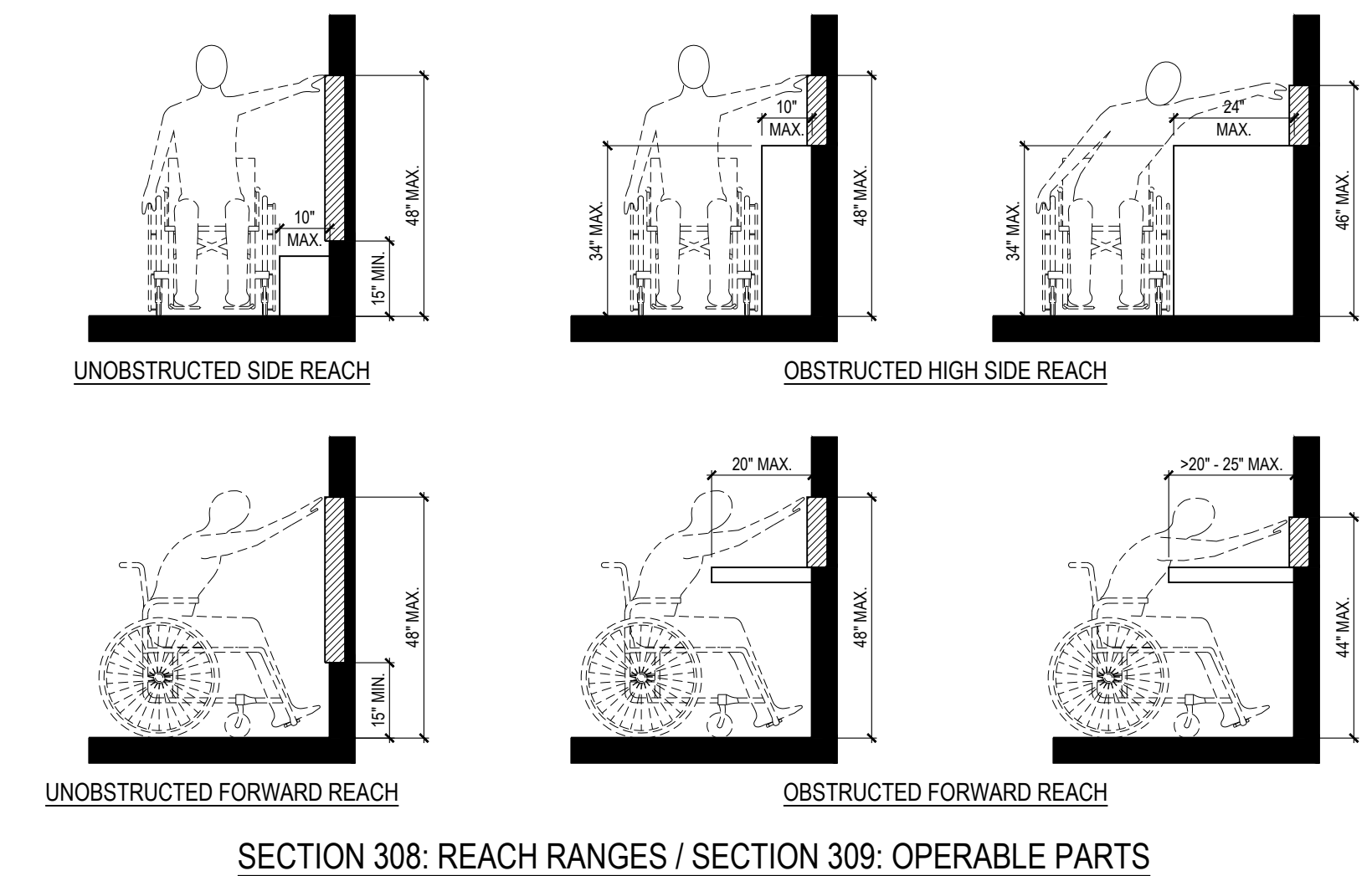
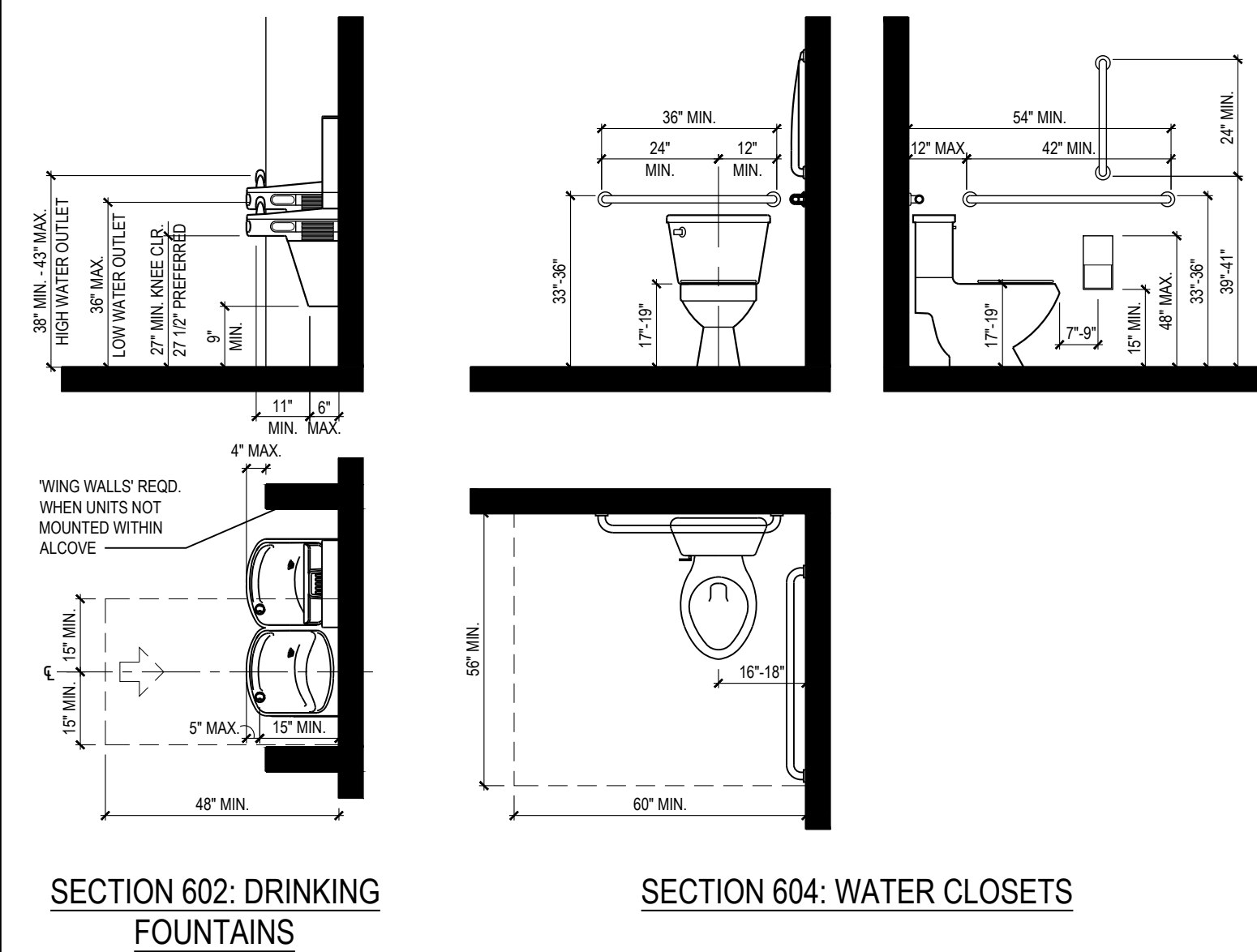
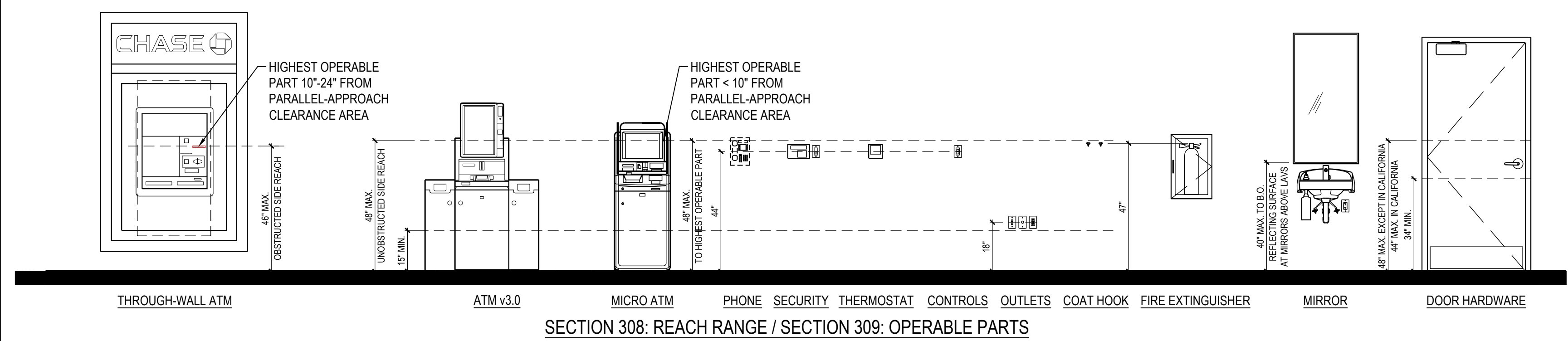
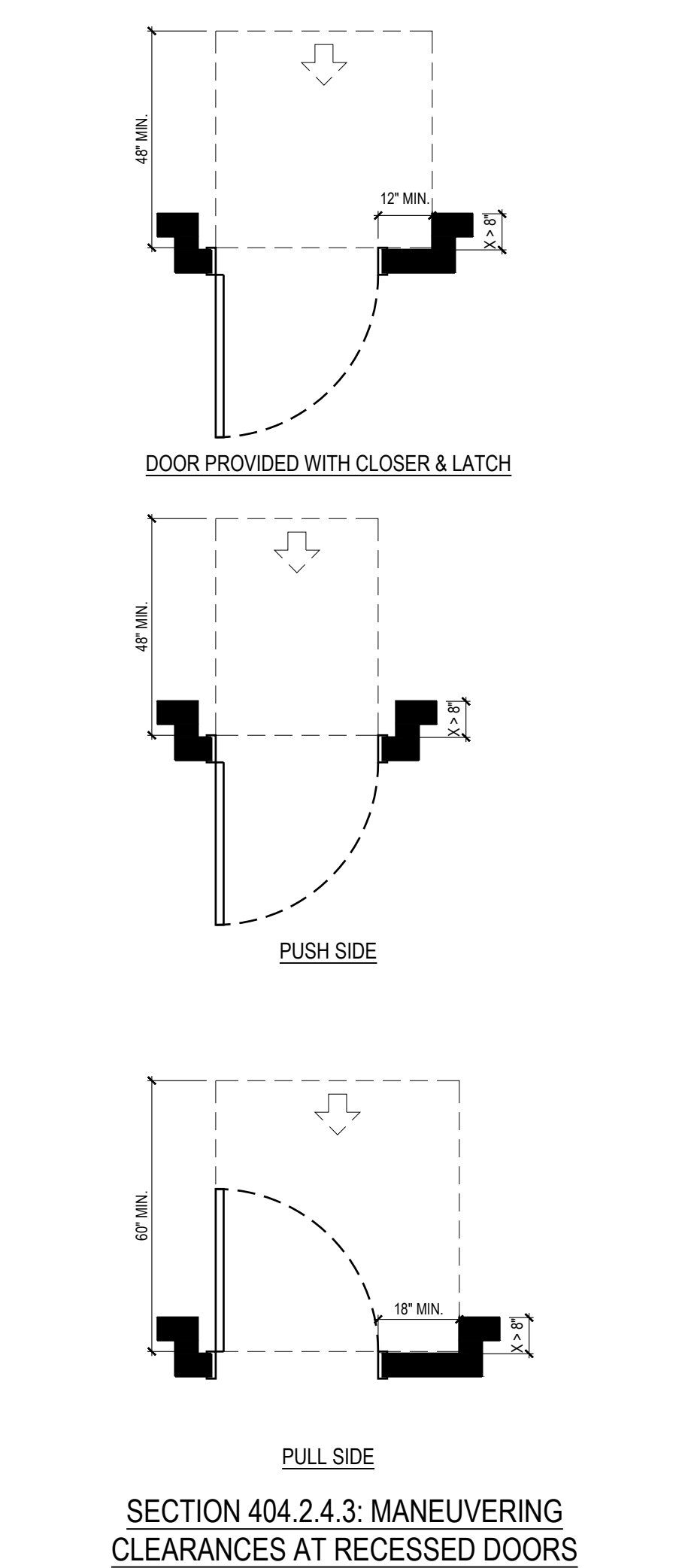
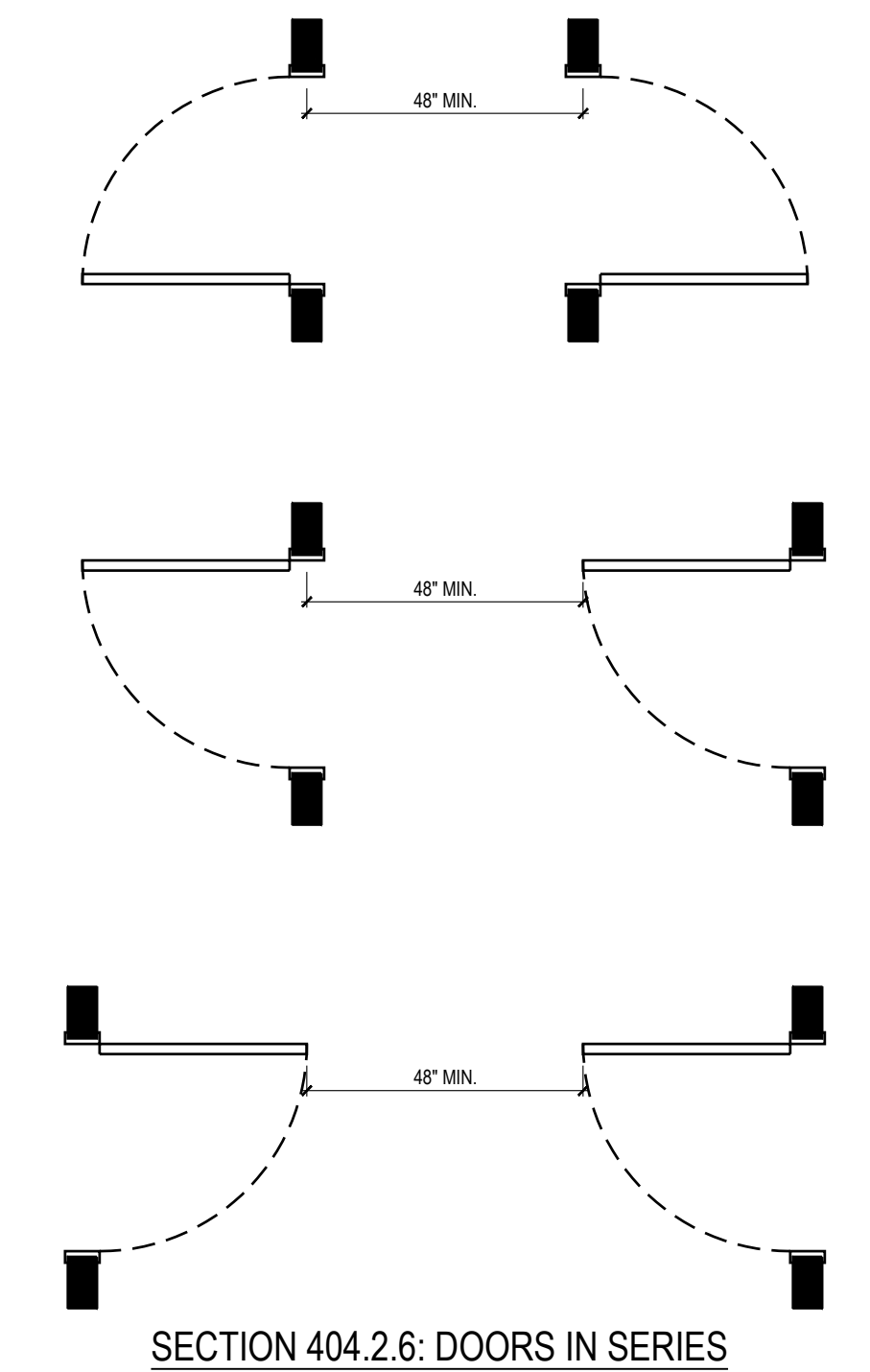
**A0.4**



PULL SIDE  
PUSH SIDE  
**SECTION 404.2.4: MANEUVERING CLEARANCES AT MANUAL SWINGING DOORS**

303.3: BEVELED  
303.2: VERTICAL  
304.2, 305.2 & 404.2.4.4: CHANGES IN LEVEL NOT PERMITTED IN TURNING SPACES, CLEAR FLOOR SPACES AND DOOR MANEUVERING CLEARANCES

**SECTION 303: CHANGES IN LEVEL**



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PRYOR & LOWENSTEIN  
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ACCESSIBILITY REQUIREMENTS

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**A0.6**

**FLOOR PLAN NOTES**

|      |   |
|------|---|
| A-1  | STRUCTURAL COLUMN:<br>COORDINATE WITH STRUCTURAL ENGINEERING DRAWINGS   |
| A-2  | ELECTRICAL PANELS:<br>LOCKING ENCLOSURES FOR ELECTRICAL MAIN SERVICE AND DISTRIBUTION   |
| A-3  | ROOF ACCESS LADDER & SCUTTLE:<br>REFER TO A1.3 FOR DETAILS  |
| A-4  | SOFFIT / BULKHEAD ABOVE:<br>REFER TO REFLECTED CEILING PLANS, SECTIONS, DETAILS AND INTERIOR ELEVATIONS. PROVIDE DEFLECTION TRACK AT UNDERSIDE OF ROOF / FLOOR STRUCTURE ABOVE TO ALLOW BULKHEAD TO REST ON DEMOUNTABLE PARTITION SYSTEM BELOW. |
| A-5  | ENTRANCE CANOPY:<br>SHOP FABRICATED PRE-FINISHED CUSTOM ALUMINUM CANOPY UNIT WITH INTEGRAL ELECTRICAL AND DRAINAGE SYSTEMS FASTENED TO BUILDING STRUCTURE- REFER TO ELEVATIONS AND WALL SECTIONS  |
| A-6  | CONCRETE STOOP:<br>ACCESSIBILITY-COMPLIANT CONTINUOUS PAVING TO PUBLIC R.O.W. REQD. FROM ALL EXITS  |
| A-7  | (NOT USED)  |
| A-8  | STOREFRONT GLAZING SYSTEM INTERIOR PARTITION- REFER TO INTERIOR ELEVATIONS  |
| A-9  | DEMOUNTABLE PARTITION SYSTEM WITH INTEGRAL DOORS AND POWER, DATA AND SECURITY CONDUIT SYSTEMS, ANCHORED TO BUILDING WALLS AND FLOOR   |
| A-10 | EXIT ALARM POWER SUPPLY:<br>INSTALLED ABOVE FINISH CEILING OVER ALARMED EGRESS DOOR- REFER TO DETAIL 2/E3.  |
| A-11 | UTILITY EQUIPMENT:<br>REFER TO EXTERIOR ELEVATIONS, SITE PLAN, AND ELECTRICAL AND PLUMBING DRAWINGS   |
| A-12 | PROVIDE FIRE-RATED BLOCKING BETWEEN STUDS TO 8'-0" A.F.F.   |

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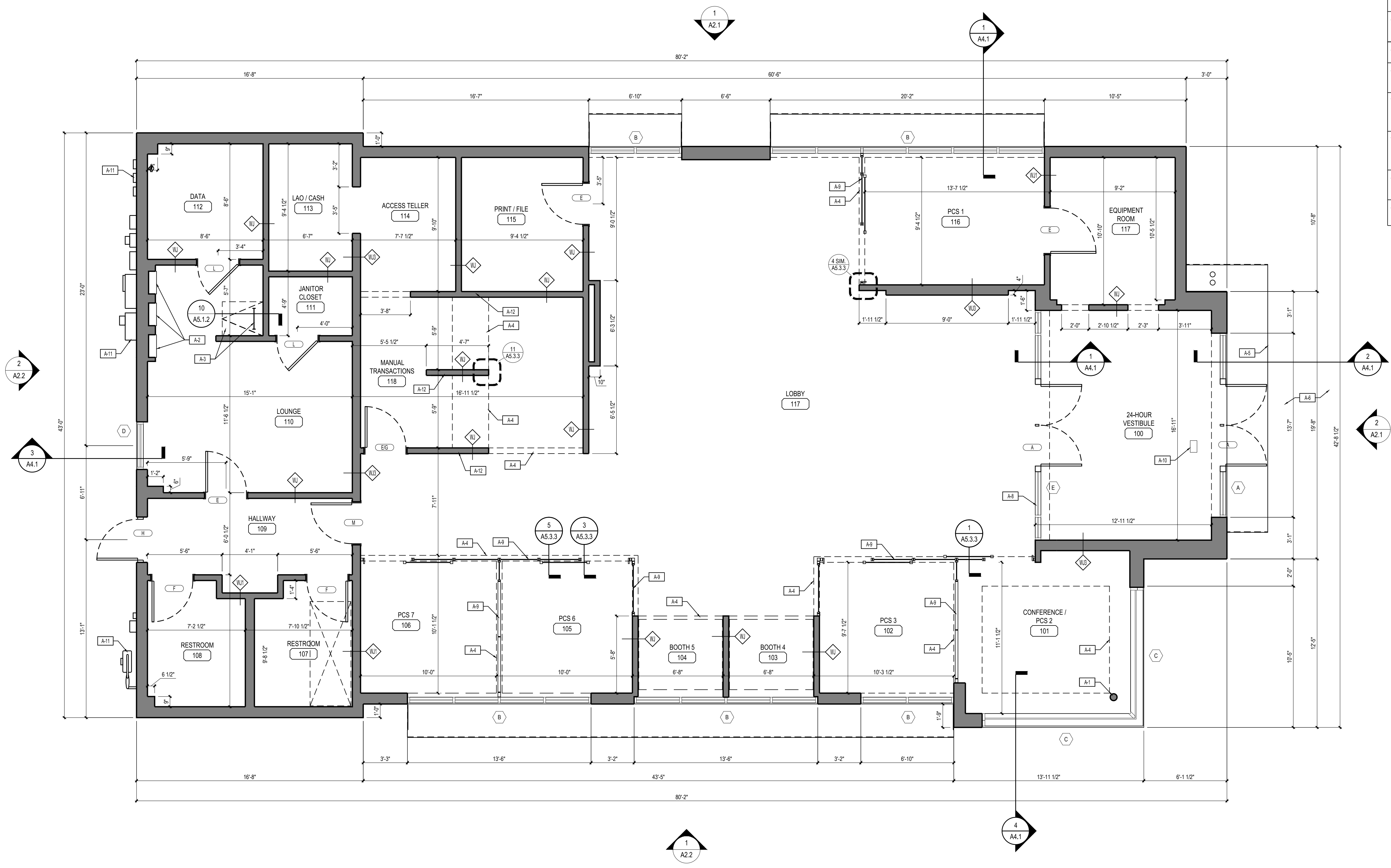
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FLOOR PLAN

02/04/2022

SHEET

**A1.1.1**




**1 FLOOR PLAN**  
 A1.1.1 1/4" = 1'-0"



| PLAN NOTES |  |
|------------|--|
| A-1        | FURNITURE:<br>REFER TO FURNITURE SCHEDULE- COORD. ELEC., DATA AND SECURITY CONNECTIONS AND TERMINATIONS  |
| A-2        | FIRE EXTINGUISHER AND CABINET:<br>PROVIDE THE MINIMUM NUMBER AS REQUIRED AND COORDINATE LOCATIONS WITH CODE REQUIREMENTS AND ADJACENT ACCESSIBILITY CLEARANCES   |
| A-3        | WALL-MOUNT FIRE EXTINGUISHER CARBON DIOXIDE ONLY / WATER OR DRY CHEMICAL TYPES NOT PERMITTED, CLASS C OR B-C, SLB. OR SMALLER, SET WALL BRACKET TO KEEP HANDLE, 48" AFF  |
| A-4        | CUSTOM SHOP-FABRICATED BUILT-IN MILLWORK:<br>REFER TO INTERIOR ELEVATIONS- SUBMIT SHOP DRAWINGS AND FINISH SAMPLES TO ARCHITECT FOR APPROVAL   |
| A-5        | ADJUSTABLE SHELVES:<br>REFER TO INTERIOR ELEVATIONS- PROVIDE BLOCKING IN WALL AS REQUIRED  |
| A-6        | EQUIPMENT / APPLIANCE:<br>REFER TO EQUIPMENT INSTALLATION MANUAL- COORDINATE WITH EQUIPMENT INSTALLER- PROVIDE ELECTRICAL, DATA AND SECURITY ROUGH-IN WORK AS REQUIRED- FRAME WALL OPENING AND PREPARE FLOOR SUBSTRATE AS REQUIRED. PROVIDE BLOCKING IN WALL AS REQUIRED |
| A-7        | AUDIO/VIDEO EQUIPMENT:<br>REFER TO INTERIOR ELEVATIONS   |
| A-8        | CEILING LIGHT FIXTURE COVE- REFER TO REFLECTED CEILING PLAN  |
| A-9        | FLOOR MATERIAL TRANSITION:<br>REFER TO DETAIL 1/A3.3.1   |

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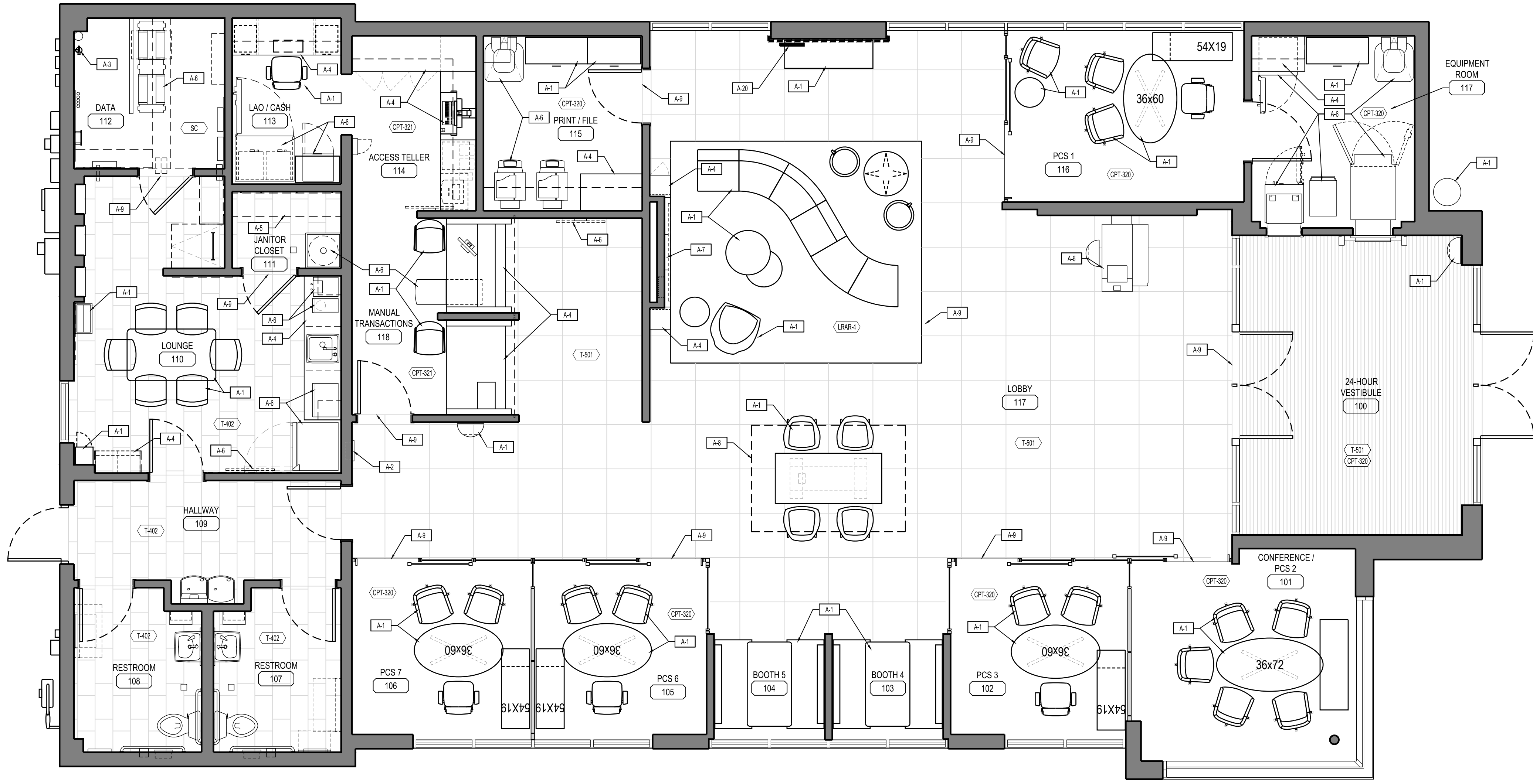
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| FURNITURE AND FLOOR FINISH PLAN | 02/04/2022 |
|                                 | SHEET      |

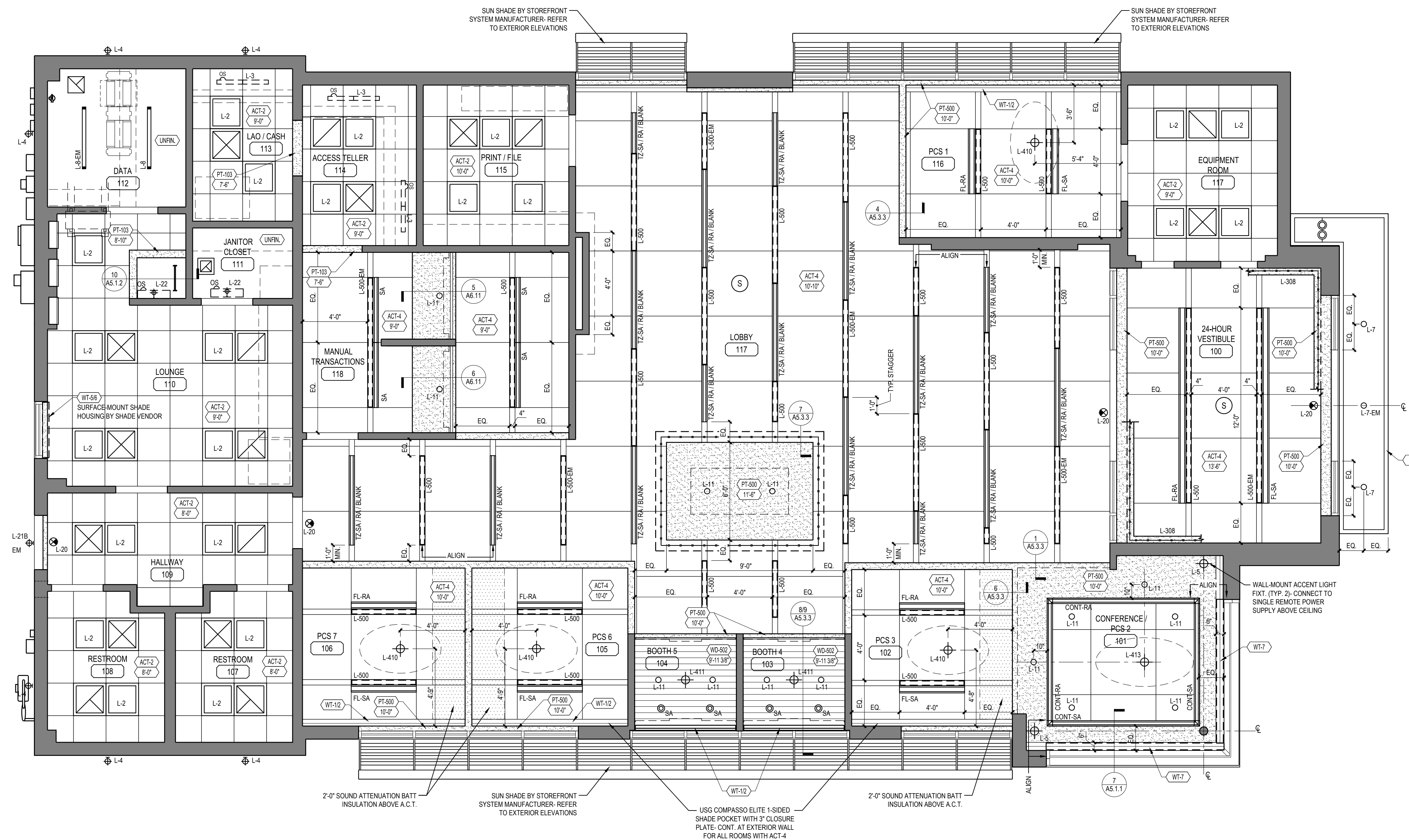
**A1.1.2**



SEE SHEET A3.3.1 AND A 3.3.2 FOR FINISH SCHEDULE

**1**  
**A1.1.2** FURNITURE AND FLOOR FINISH PLAN  
 1/4" = 1'-0" 





1 REFLECTED CEILING PLAN  
A1.2 1/4" = 1'-0"



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LEE'S SUMMIT, MO 64081

EBI JOB #4121000090

| ISSUE | DATE       | DESCRIPTION      |
|-------|------------|------------------|
| 0     | 03/02/2022 | PERMIT           |
| 1     | 04/11/2022 | PERMIT REVISIONS |



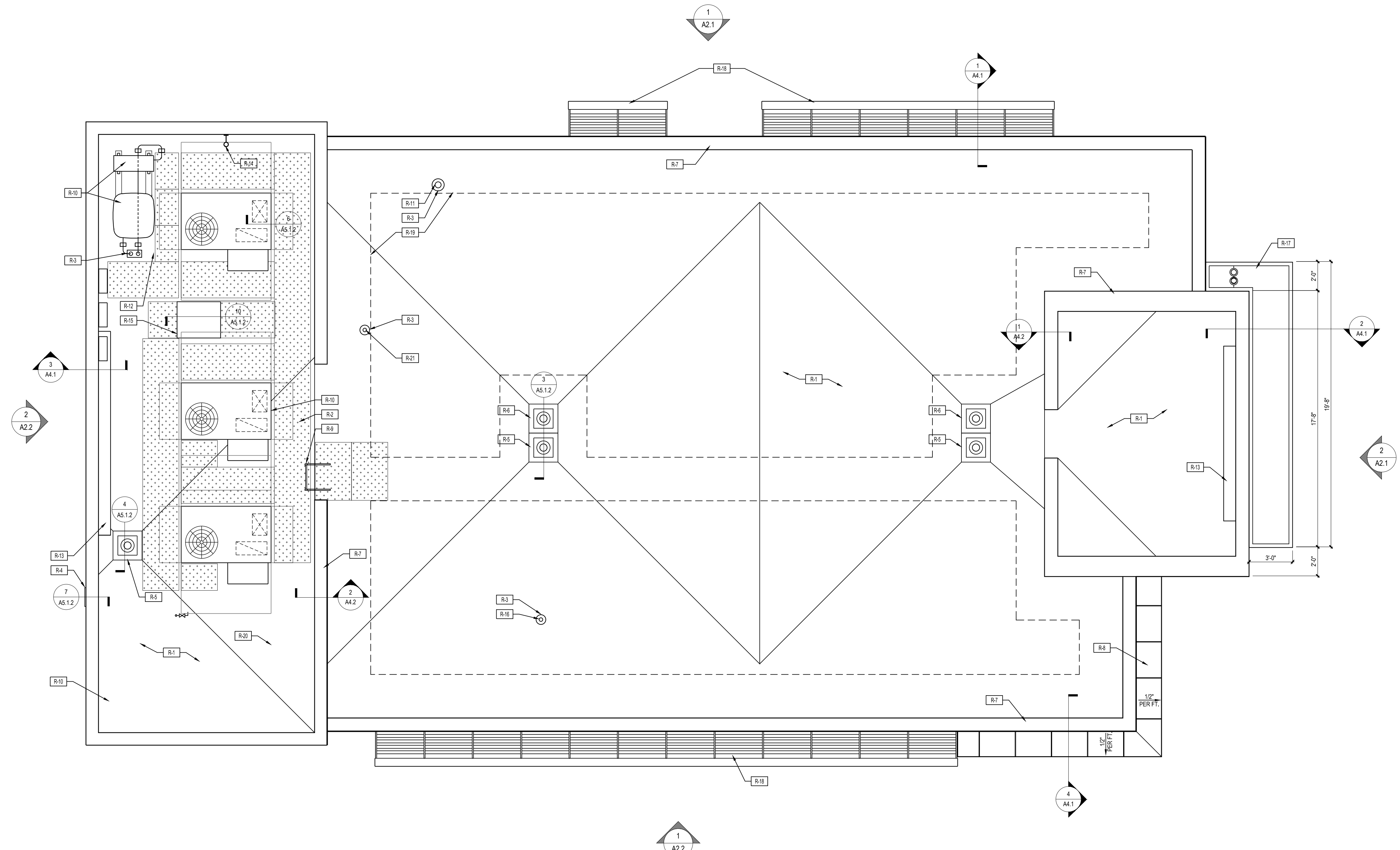
PRYOR & LOWENSTEIN  
PROTOTYPE VERSION 20.4

CONTENTS  
REFLECTED CEILING PLAN

02/04/2022  
SHEET

**A1.2**

| ROOF PLAN NOTES |   |
|-----------------|---|
| R-1             | LOW-SLOPE ROOFING: THERMOPLASTIC SHEET MEMBRANE ROOFING INSTALLED OVER TAPERED INSULATION AS REQUIRED TO FORM RIDGES, VALLEYS, CRICKETS AND SADDLES AS REQUIRED TO ACHIEVE MINIMUM 1/4" PER FOOT PITCH OR MANUFACTURER'S MINIMUM PITCH REQUIREMENTS FOR THE APPLICATION, WHICHEVER IS GREATER. FORM SLOPES TO ELIMINATE THE POSSIBILITY OF PONDING. REFER TO WALL SECTIONS AND CONSTRUCTION TYPES |
| R-2             | ROOFING TRAFFIC PADS: SURFACE-ADHERED TEXTURED WALKWAY MATERIAL PER ROOFING MANUFACTURER SPECIFICATIONS TO ALL MECHANICAL EQUIPMENT   |
| R-3             | PIPE PENETRATION: PRE-FABRICATED WATER-TIGHT SURFACE-ADHERED ROOFING PORTAL COMPATIBLE WITH ROOFING MATERIAL  |
| R-4             | ATM CANOPY: SHOP FABRICATED PRE-FINISHED CUSTOM ALUMINUM CANOPY UNIT WITH INTEGRAL ELECTRICAL AND DRAINAGE SYSTEMS FASTENED TO BUILDING STRUCTURE. REFER TO ELEVATIONS AND WALL SECTIONS  |
| R-5             | ROOF DRAIN: METAL DRAIN PAN AND BASKET ASSEMBLY WITH CLAMP RING SECURED WATER-TIGHT TO ROOFING MEMBRANE. REFER TO PLUMBING FIXTURE SCHEDULE   |
| R-6             | OVERFLOW DRAIN: METAL DRAIN PAN AND BASKET ASSEMBLY WITH CLAMP RING SECURED WATER-TIGHT TO ROOFING MEMBRANE. REFER TO PLUMBING FIXTURE SCHEDULE   |
| R-7             | PARAPET COPING SYSTEM: SHOP-FABRICATED PRE-FINISHED ALUMINUM. REFER TO WALL SECTIONS FOR DETAILS AND EXTERIOR ELEVATIONS FOR COLOR  |
| R-8             | BAY ROOF: SEALED-JOINT ACM COPING / CLADDING SYSTEM OVER LOW-SLOPE ROOFING AND RAIN SCREEN WATERPROOFING SYSTEM. REFER TO EXTERIOR ELEVATIONS AND WALL SECTIONS   |
| R-9             | ROOF LADDER: REFER TO DETAILS AS NOTED  |
| R-10            | MECHANICAL EQUIPMENT: VENTILATION UNIT, PACKAGED ROOFTOP HEATING AND COOLING UNIT OR SPLIT-SYSTEM A/C UNIT MOUNTED TO SHOP-FAB, VIBRATION-ISOLATING RAIL OR INSULATED CURB UNIT- LAP FLASH WATER-TIGHT TO ROOFING MEMBRANE. REFER TO DETAILS 1A12 AND 1B12  |
| R-11            | PLUMBING STACK VENT: PVC SIZED AS REQD. WITH PRE-FABRICATED COMPATIBLE FLASHING BOOT ADHERED TO ROOF MEMBRANE- EXTEND VENT TO ALIGN WITH ADJACENT PARAPET COPING AND PROVIDE LATERAL BRACING AS REQD.   |
| R-12            | SURFACE-MOUNT MECHANICAL PIPING: GAS AND REFRIGERANT PIPING SUPPORTED ON ROOFING BY B-LINE DURA-BLOK PRE-FAB RUBBER-BASE GALVANIZED STEEL UNISTRUT PIPE SUPPORTS AT 8'-0" o.c. MAX.   |
| R-13            | SURFACE-MOUNT SIGNAGE EQUIPMENT ENCLOSURE: WATER-TIGHT SHOP-FABRICATED METAL SIGNAGE ENCLOSURE BY SIGN VENDOR. SECURE TO BACKSIDE OF PARAPET WALL WITH MINIMAL PENETRATIONS OF ROOFING MEMBRANE. PROVIDE PERIMETER WATER-TIGHT SEALANT COMPATIBLE WITH ROOF MEMBRANE  |
| R-14            | LANDSCAPE IRRIGATION SYSTEM WEATHER STATION: FASTENED TO BACKSIDE OF PARAPET USING MFR'S BRACKET. SEAL MEMBRANE PENETRATIONS W/ 100% SILICONE SEALANT   |
| R-15            | SCUTTLE: PRE-FAB. INSULATED ROOF SCUTTLE WITH RETRACTABLE SAFETY POST. FLASH WATER-TIGHT TO ROOFING MEMBRANE. PROVIDE CARABINER THROUGH LATCH   |
| R-16            | FURNACE VENT: CONCENTRIC OR SIDE-WALL PVC EXHAUST / COMBUSTION AIR INTAKE W/ ROOF MEMBRANE FLASHING BOOT- AT GAS-FIRED FURNACE LOCATIONS ONLY   |
| R-17            | ENTRANCE CANOPY: SHOP FABRICATED PRE-FINISHED CUSTOM ALUMINUM CANOPY UNIT WITH INTEGRAL ELECTRICAL AND DRAINAGE SYSTEMS FASTENED TO BUILDING STRUCTURE. REFER TO ELEVATIONS AND WALL SECTIONS   |
| R-18            | SUN SHADE: BY STOREFRONT SYSTEM MANUFACTURER. REFER TO EXTERIOR ELEVATION NOTES   |
| R-19            | FUTURE PHOTOVOLTAIC PANEL ARRAY AREA: FOR DETAILS OF FUTURE PV SYSTEM REFER TO 'ROOFTOP SOLAR PROGRAM STANDARD BUILDING PACKAGE' DRAWINGS POSTED TO OVP/SPOTLIGHT; ADDITIONAL STRUCTURAL LOADING IS 5PSF AT SLOPED ROOFS AND 10PSF AT FLAT ROOFS  |
| R-20            | FUTURE PHOTOVOLTAIC EQUIPMENT AREA: REFER TO ELEC. RISER DIAGRAM, SHEET E3  |
| R-21            | RIGID METAL CONDUIT MAST FOR FUTURE CELLULAR ANTENNA: REFER TO BUILDING ENVELOPE LIGHTING AND POWER PLAN, SHEET E3  |



1 ROOF PLAN  
A1.3 1/4" = 1'-0"  
NORTH

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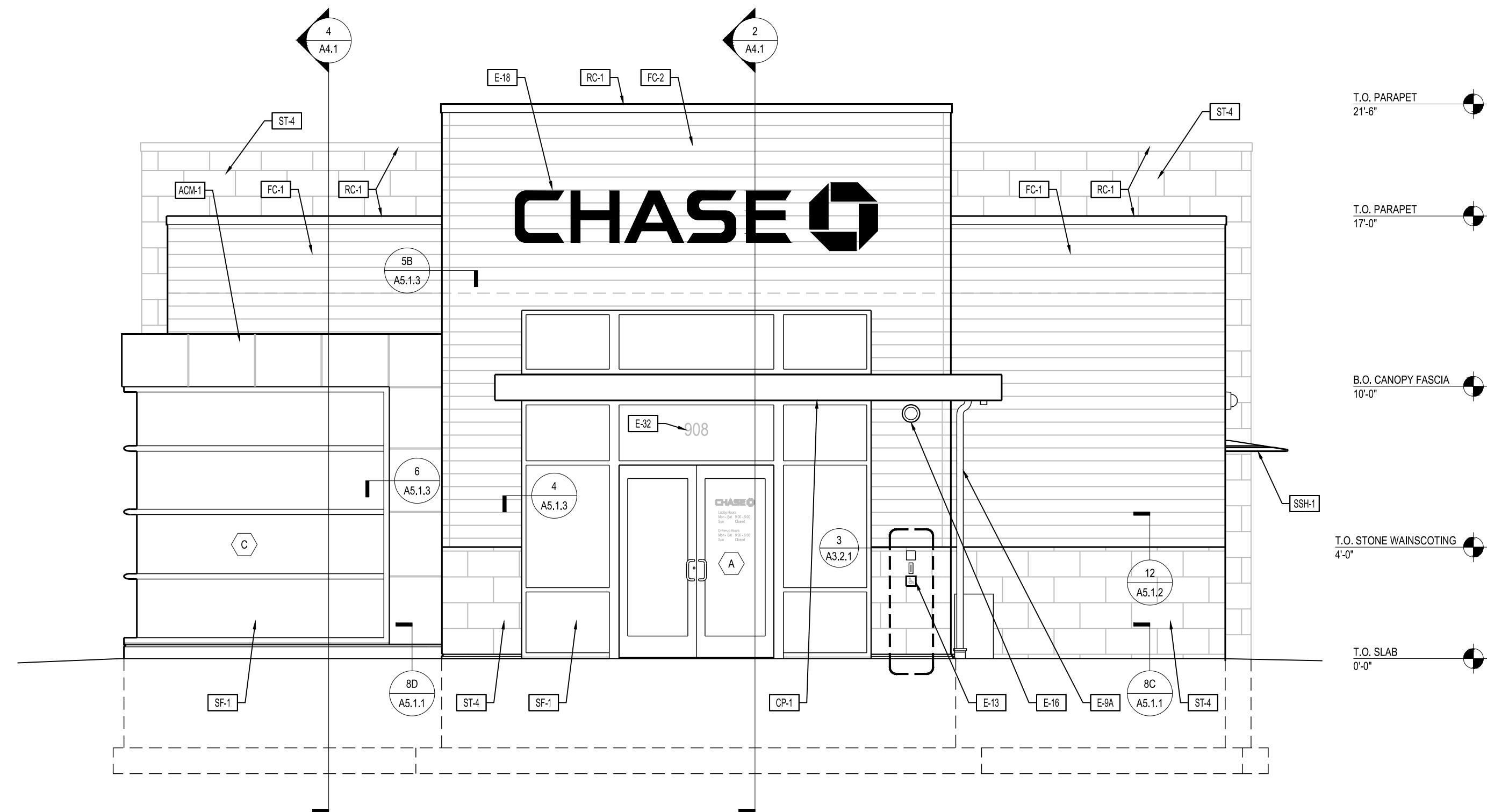
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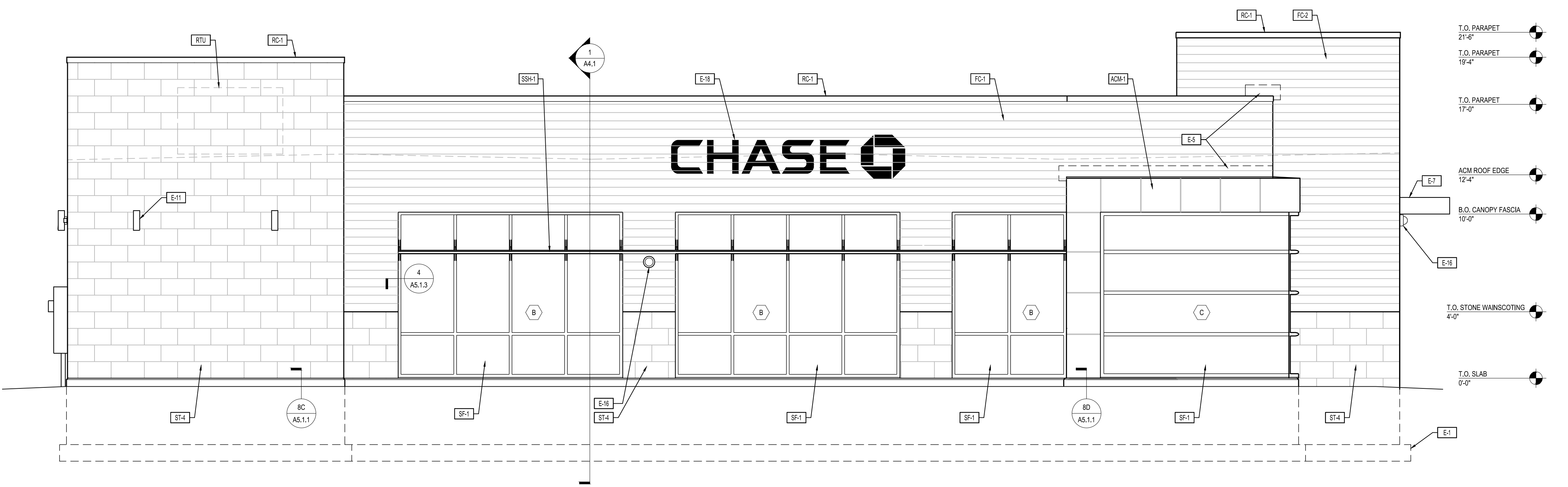
A1.3

**EXTERIOR FINISH MATERIALS**

|                                       |  |
|---------------------------------------|--|
| <b>MANUFACTURED THIN STONE VENEER</b> |  |
| MANUFACTURER                          | CORONADO STONE PRODUCTS  |
| PRODUCT                               | CHISELED LIMESTONE   |
| COLOR                                 | CREAM  |
| SIZE                                  | 24" WIDE x 12" HIGH x 1" THICK   |
| GROUT                                 | 1/4" NOMINAL JOINTS WITH FULL SMOOTH TOOLED COLOR-MATCHED PORTLAND CEMENT GROUT  |
| NOTES                                 | RUNNING BOND MANUFACTURED THIN STONE FIELD-CUT TO MAX LENGTHS POSSIBLE WITH BUTTED AND LAPPED INSIDE CORNERS AND MANUFACTURER'S FABRICATED RETURN CORNER PIECES- MITERED CORNERS ARE NOT ACCEPTABLE- PLACE CONTROL JOINTS AS RECOMMENDED BY THE MANUFACTURER- REFER TO WALL SECTIONS AND DETAILS |
| <b>FIBER CEMENT PANEL- DARK</b>       |  |
| MANUFACTURER                          | NICHIHA FIBER CEMENT   |
| PRODUCT                               | VINTAGEWOOD AWP 1818 (AVAILABLE AS AWP 3030 FOR NON-PROTOTYPICAL PROJECTS)   |
| COLOR                                 | BARK   |
| SIZE                                  | 18" NOMINAL x 72" NOMINAL AND 120" NOMINAL   |
| NOTES                                 | INCLUDE 3.5" MANUFACTURED CORNERS AND MANUFACTURER'S "ESSENTIAL" FLASHING SYSTEM.  |
| <b>FIBER CEMENT PANEL- LIGHT</b>      |  |
| MANUFACTURER                          | NICHIHA FIBER CEMENT   |
| PRODUCT                               | VINTAGEWOOD AWP 1818 (AVAILABLE AS AWP 3030 FOR NON-PROTOTYPICAL PROJECTS)   |
| COLOR                                 | ASH  |
| SIZE                                  | 18" NOMINAL x 72" NOMINAL AND 120" NOMINAL   |
| NOTES                                 | INCLUDE 3.5" MANUFACTURED CORNERS AND MANUFACTURER'S "ESSENTIAL" FLASHING SYSTEM.  |
| <b>ROOF COPING</b>                    |  |
| MANUFACTURER                          | PETERSEN ALUMINUM / PAC-CLAD   |
| PRODUCT                               | PAC-CONTINUOUS   |
| COLOR                                 | MATTE BLACK STEEL / BLACK ALUMINUM   |
| <b>ALUMINUM COMPOSITE MATERIAL</b>    |  |
| MANUFACTURER                          | ARCONIC ARCHITECTURAL PRODUCTS   |
| PRODUCT                               | REYNOBOND  |
| COLOR                                 | DURAGLOSS 5000 DG SILVER   |
| <b>ALUMINUM STOREFRONT</b>            |  |
| MANUFACTURER                          | KAWNEER  |
| PRODUCT                               | 451T   |
| COLOR                                 | BLACK ANODIZED ALUMINUM  |
| <b>SUNSHADE</b>                       |  |
| MANUFACTURER                          | KAWNEER  |
| PRODUCT                               | VERSOLEIL  |
| COLOR                                 | BLACK ANODIZED ALUMINUM  |
| <b>CANOPY</b>                         |  |
| MANUFACTURER                          | SHOP FABRICATED  |
| PRODUCT                               |  |
| COLOR                                 | BLACK ANODIZED ALUMINUM  |



**2 EAST ELEVATION**  
A2.1 1/4" = 1'-0"



**1 SOUTH ELEVATION**  
A2.1 1/4" = 1'-0"

**ELEVATION NOTES**

|      |   |
|------|---|
| E-1  | CONCRETE FOOTINGS / FOUNDATIONS:<br>REFER TO STRUCTURAL DWGS.   |
| E-2  | CONCRETE CURB AND ISLANDS:<br>REFER TO ARCHITECTURAL SITE PLAN AND DRIVE-UP CANOPY PLAN   |
| E-3  | EMERGENCY ACCESS KEY BOX:<br>WHERE REQUIRED BY LOCAL CODE ONLY- RECESS-MOUNT IN WALL CONSTRUCTION AS REQD. TO SET FACE FLUSH WITH ADJACENT WALL FINISH- VERIFY FINAL LOCATION WITH AUTHORITIES HAVING JURISDICTION  |
| E-4  | LIGHTING TIMER SYSTEM PHOTO SENSOR:<br>REFER TO ELECTRICAL DRAWINGS   |
| E-5  | METAL FLASHING AND COUNTER FLASHING CONCEALED BEHIND WALL FINISH AND FINISH OF EXPOSED FLASHING TO MATCH ADJACENT ROOFING/COPING  |
| E-6  | FLASHING AT PREFAB CANOPY:<br>PRE-FINISHED ALUMINUM FLASHING TO SPAN GAP BETWEEN PREFAB CANOPY AND BUILDING CONCEALED BEHIND WALL FINISH- REFER TO WALL SECTIONS AND DETAILS- COLOR TO MATCH EPT-4- VERIFY FINAL FLASHING LENGTH AND CONFIGURATION WITH APPROVED CANOPY SHOP DWGS   |
| E-7  | ENTRANCE / ATM CANOPY:<br>SHOP FABRICATED SITE-ASSEMBLED PRE-FINISHED BLACK CUSTOM ALUMINUM CANOPY UNIT WITH PREPPED ELECTRICAL OPENINGS AND INTEGRAL DRAINAGE SYSTEM FASTENED TO BUILDING STRUCTURE- MAPES ARCHITECTURAL CANOPIES SUPER LUMIDECK WITH FLAT SOFFIT AND 12" FASCIA, OR APPROVED EQUAL- REFER TO ROOF PLAN AND WALL SECTIONS- INSTALLED BY GC. MAPES CANOPIES CAN EITHER PRE-FAB THE UNITS AND SHIP READY-TO-INSTALL, OR SHIP AS KIT OF PARTS FOR GC TO ASSEMBLE ON-SITE- GC SELECTS OPTION WHEN THEY ORDER |
| E-8  | CONTROL / EXPANSION JOINT:<br>VERTICAL ELASTOMERIC SEALANT JOINT CONTINUOUS THROUGH VENEER- MATCH SEALANT COLOR TO VENEER COLOR   |
| E-9A | SMALL CANOPY DOWNSPOUT/OVERFLOW:<br>3" DIAM ALUMINUM DOWNSPOUT PRE-FIN. TO MATCH THE CANOPY; CONNECT TO CAST IRON DRAIN HUB AT GRADE AND EXTEND SUBSURFACE TO SITE DRAINAGE SYSTEM- REFER TO SITE PLAN  |
| E-9B | LARGE CANOPY DOWNSPOUT/OVERFLOW:<br>ROUND ALUMINUM DOWNSPOUT, SIZED AS REQUIRED, WITH ATTACHMENT HARDWARE AS REQUIRED, PAINTED TO MATCH ADJACENT WALL/COLUMN FINISH- SPLASH TO CONCRETE DRIVE UP ISLAND   |
| E-10 | SCUPPER:<br>REFER TO ROOF PLAN  |
| E-11 | SURFACE-MOUNT DECORATIVE LIGHT FIXTURE:<br>REFER TO REFLECTED CEILING PLAN AND ELECTRICAL DRAWINGS  |
| E-12 | SURFACE-MOUNT EMERGENCY LIGHT FIXTURE:<br>TO BE PROVIDED ONLY WHEN DOOR BELOW IS A REQUIRED OR MARKED EXIT- REFER TO REFLECTED CEILING PLAN AND LIGHT FIXTURE SCHEDULE  |
| E-13 | AUTOMATIC DOOR OPERATOR BUTTON AND KEYCARD READER RECESSED FLUSH WITH WALL SURFACE- DO NOT SURFACE-MOUNT  |
| E-14 | HOSE BIB:<br>SET FLUSH WITH FACE OF MASONRY VENEER- REFER TO PLUMBING FIXTURE SCHEDULE  |
| E-15 | ELECTRICAL OUTLET:<br>SET FLUSH WITH FACE OF MASONRY VENEER- PROVIDE METAL COVER COMPLIANT WITH N.E.C.  |
| E-16 | SECURITY CAMERA:<br>PROVIDE CONCEALED JUNCTION BOX AND CONDUIT TO INTERIOR; REFER TO OWNER'S SECURITY CONSULTANT DRAWINGS   |
| E-17 | BANK EQUIPMENT:<br>FURNISHED AND INSTALLED BY BANK EQUIPMENT VENDOR- COORD. WALL OPENINGS AND ELECTRICAL / DATA REQUIREMENTS WITH OWNER-FURNISHED EQUIPMENT SHOP DRAWINGS AND PRODUCT DATA  |
| E-18 | SIGNAGE:<br>BY OWNER'S SIGN VENDOR- N.I.C.- PROVIDE ROUGH ELEC. WORK AND BLOCKING IN WALL AS REQD. FOR VENDOR INSTALLATION  |
| E-19 | BUILDING ADDRESS NUMBER:<br>WHITE VINYL NUMBERS WITH 1/2" WIDE STROKE APPLIED TO INTERIOR FACE OF GLASS TRANSOM- MIN. 6" HEIGHT OR AS REQD. BY LOCAL CODE   |
| E-20 | ELECTRICAL SERVICE CT / METER CABINET:<br>REFER TO ELECTRICAL DRAWINGS. PAINT TO MATCH ADJACENT SURFACE   |
| E-21 | EMERGENCY TRANSFER SWITCH:<br>REFER TO ELECTRICAL DRAWINGS. PAINT TO MATCH ADJACENT SURFACE   |
| E-22 | PHOTOVOLTAIC SYSTEM FUSED DISCONNECT SWITCH:<br>REFER TO ELECTRICAL DRAWINGS. PAINT TO MATCH ADJACENT SURFACE   |
| E-23 | TELE / DATA / UTILITY CONNECTIONS:<br>REFER TO ELECTRICAL DRAWINGS. PAINT TO MATCH ADJACENT SURFACE   |
| E-24 | LANDSCAPE IRRIGATION SYSTEM:<br>CONTROLLER, WIRELESS NETWORK CONNECTOR, AND DEDICATED WP POWER OUTLET; REFER TO SITE PLAN AND ELECTRICAL PLAN. PAINT TO MATCH ADJACENT SURFACE  |
| E-25 | GAS METER:<br>REFER TO SITE PLAN AND PLUMBING DRAWINGS. PAINT TO MATCH ADJACENT SURFACE   |
| E-26 | FUTURE PHOTOVOLTAIC SYSTEM DISCONNECT SWITCH AND PERFORMANCE METER:<br>REFER TO ELECTRICAL DRAWINGS   |
| E-27 | FIRE ALARM SYSTEM BELL AND STROBE:<br>WHERE REQUIRED BY LOCAL CODE ONLY- VERIFY FINAL LOCATION WITH LOCAL AUTHORITIES HAVING JURISDICTION   |
| E-28 | FIRE DEPARTMENT CONNECTION:<br>FIRE SUPPRESSION SYSTEM EXTERIOR CONNECTION WHERE REQD. BY LOCAL CODE ONLY- VERIFY FINAL LOCATION WITH LOCAL AUTHORITIES HAVING JURISDICTION   |
| E-29 | ROOF OVERFLOW DOWNSPOUT NOZZLE:<br>REFER TO PLUMBING DRAWINGS AND DESIGN INTENT ARCHITECTURAL SITE PLAN   |
| E-30 | SUN SHADE:<br>GLAZING SYSTEM MANUFACTURER'S STANDARD INTEGRAL SHADE ACCESSORY- REFER TO WALL SECTIONS; MATCH GLAZING SYSTEM FINISH; BASIS OF DESIGN IS KAWNEER VERSOLEIL 30" WEDGE WITH ANGULAR FASCIA AND CIRCULAR BLADES  |
| E-31 | BOLLARD:<br>REFER TO ARCHITECTURAL SITE PLAN AND DRIVE-UP CANOPY PLAN   |
| E-32 | G.C. TO PROVIDE 6" HIGH WHITE ARABIC ADDRESS NUMBERS WITH MIN 1/2" STROKE WIDTH   |

PREPARED BY:  
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6/1/2022

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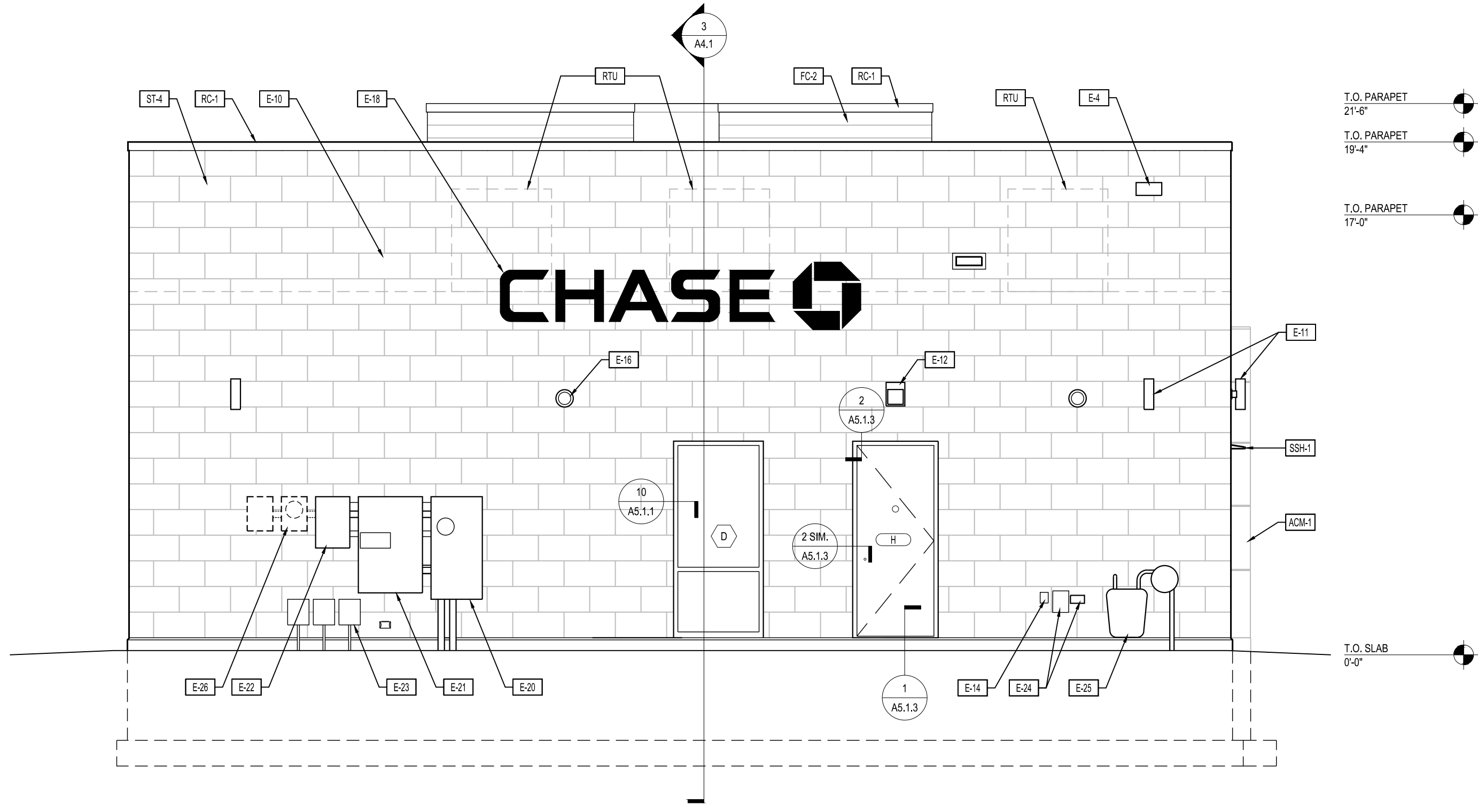
EXTERIOR ELEVATIONS

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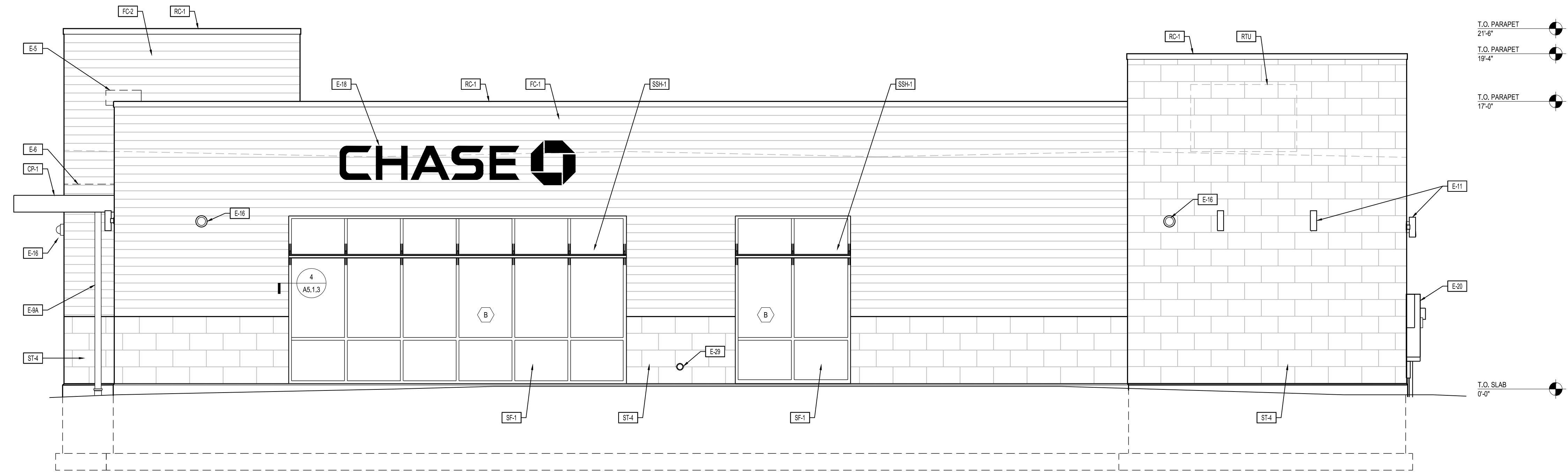
**A2.1**

**EXTERIOR FINISH MATERIALS**

|                                       |   |
|---------------------------------------|---|
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| PRODUCT                               | CHISELED LIMESTONE  |
| COLOR                                 | CREAM   |
| SIZE                                  | 24" WIDE x 12" HIGH x 1" THICK  |
| GROUT                                 | 1/4" NOMINAL JOINTS WITH FULL SMOOTH TOOLED COLOR-MATCHED PORTLAND CEMENT GROUT   |
| NOTES                                 | RUNNING BOND MANUFACTURED THIN STONE FIELD-CUT TO MAX LENGTHS POSSIBLE WITH BUTTED AND LAPPED INSIDE CORNERS AND MANUFACTURER'S FABRICATED RETURN CORNER PIECES-MITERED CORNERS ARE NOT ACCEPTABLE- PLACE CONTROL JOINTS AS RECOMMENDED BY THE MANUFACTURER. REFER TO WALL SECTIONS AND DETAILS |
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| MANUFACTURER                          | PETERSEN ALUMINUM / PAC-CLAD  |
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| COLOR                                 | MATTE BLACK STEEL / BLACK ALUMINUM  |
| <b>ALUMINUM COMPOSITE MATERIAL</b>    |   |
| MANUFACTURER                          | ARCONIC ARCHITECTURAL PRODUCTS  |
| PRODUCT                               | REYNOBOND   |
| COLOR                                 | DURAGLOSS 5000 DG SILVER  |
| <b>ALUMINUM STOREFRONT</b>            |   |
| MANUFACTURER                          | KAWNEER   |
| PRODUCT                               | 451T  |
| COLOR                                 | BLACK ANODIZED ALUMINUM   |
| <b>SUNSHADE</b>                       |   |
| MANUFACTURER                          | KAWNEER   |
| PRODUCT                               | VERSOLEIL   |
| COLOR                                 | BLACK ANODIZED ALUMINUM   |
| <b>CANOPY</b>                         |   |
| MANUFACTURER                          | SHOP FABRICATED   |
| PRODUCT                               |   |
| COLOR                                 | BLACK ANODIZED ALUMINUM   |



**2 WEST ELEVATION**  
1/4" = 1'-0"



**1 NORTH ELEVATION**  
1/4" = 1'-0"

**ELEVATION NOTES**

|      |   |
|------|---|
| E-1  | CONCRETE FOOTINGS / FOUNDATIONS:<br>REFER TO STRUCTURAL DWGS.   |
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| E-9A | SMALL CANOPY DOWNSPOUT/OVERFLOW:<br>3" DIAM ALUMINUM DOWNSPOUT PRE-FIN. TO MATCH THE CANOPY; CONNECT TO CAST IRON DRAIN HUB AT GRADE AND EXTEND SUBSURFACE TO SITE DRAINAGE SYSTEM- REFER TO SITE PLAN  |
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| E-18 | SIGNAGE:<br>BY OWNER'S SIGN VENDOR- N.I.C.- PROVIDE ROUGH ELEC. WORK AND BLOCKING IN WALL AS REQD. FOR VENDOR INSTALLATION  |
| E-19 | BUILDING ADDRESS NUMBER:<br>WHITE VINYL NUMBERS WITH 1/2" WIDE STROKE APPLIED TO INTERIOR FACE OF GLASS TRANSOM- MIN. 6" HEIGHT OR AS REQD. BY LOCAL CODE   |
| E-20 | ELECTRICAL SERVICE CT / METER CABINET:<br>REFER TO ELECTRICAL DRAWINGS  |
| E-21 | EMERGENCY TRANSFER SWITCH:<br>REFER TO ELECTRICAL DRAWINGS  |
| E-22 | PHOTOVOLTAIC SYSTEM FUSED DISCONNECT SWITCH:<br>REFER TO ELECTRICAL DRAWINGS  |
| E-23 | TELE / DATA / UTILITY CONNECTIONS:<br>REFER TO ELECTRICAL DRAWINGS  |
| E-24 | LANDSCAPE IRRIGATION SYSTEM:<br>CONTROLLER, WIRELESS NETWORK CONNECTOR, AND DEDICATED WP POWER OUTLET; REFER TO SITE PLAN AND ELECTRICAL PLAN   |
| E-25 | GAS METER:<br>REFER TO SITE PLAN AND PLUMBING DRAWINGS  |
| E-26 | FUTURE PHOTOVOLTAIC SYSTEM DISCONNECT SWITCH AND PERFORMANCE METER:<br>REFER TO ELECTRICAL DRAWINGS   |
| E-27 | FIRE ALARM SYSTEM BELL AND STROBE:<br>WHERE REQUIRED BY LOCAL CODE ONLY- VERIFY FINAL LOCATION WITH LOCAL AUTHORITIES HAVING JURISDICTION   |
| E-28 | FIRE DEPARTMENT CONNECTION:<br>FIRE SUPPRESSION SYSTEM EXTERIOR CONNECTION WHERE REQD. BY LOCAL CODE ONLY- VERIFY FINAL LOCATION WITH LOCAL AUTHORITIES HAVING JURISDICTION   |
| E-29 | ROOF OVERFLOW DOWNSPOUT NOZZLE:<br>REFER TO PLUMBING DRAWINGS AND DESIGN INTENT ARCHITECTURAL SITE PLAN   |
| E-30 | SUN SHADE:<br>GLAZING SYSTEM MANUFACTURER'S STANDARD INTEGRAL SHADE ACCESSORY- REFER TO WALL SECTIONS; MATCH GLAZING SYSTEM FINISH- BASIS OF DESIGN IS KAWNEER VERSOLEIL 30° WEDGE WITH ANGULAR FASCIA AND CIRCULAR BLADES  |
| E-31 | BOLLARD:<br>REFER TO ARCHITECTURAL SITE PLAN AND DRIVE-UP CANOPY PLAN   |

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6/1/2022

**PRYOR ROAD & LOWENSTEIN DRIVE**  
908 NW PRYOR ROAD  
LEE'S SUMMIT, MO 64081

EBI JOB #412100090

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**PRYOR & LOWENSTEIN**  
PROTOTYPE VERSION 20.4

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EXTERIOR ELEVATIONS

02/04/2022  
SHEET

**A2.2**

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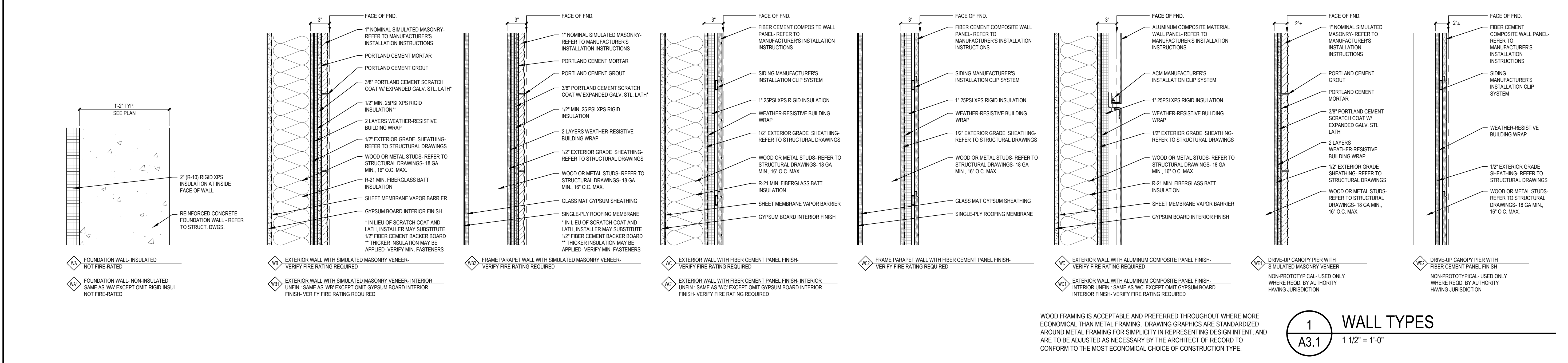
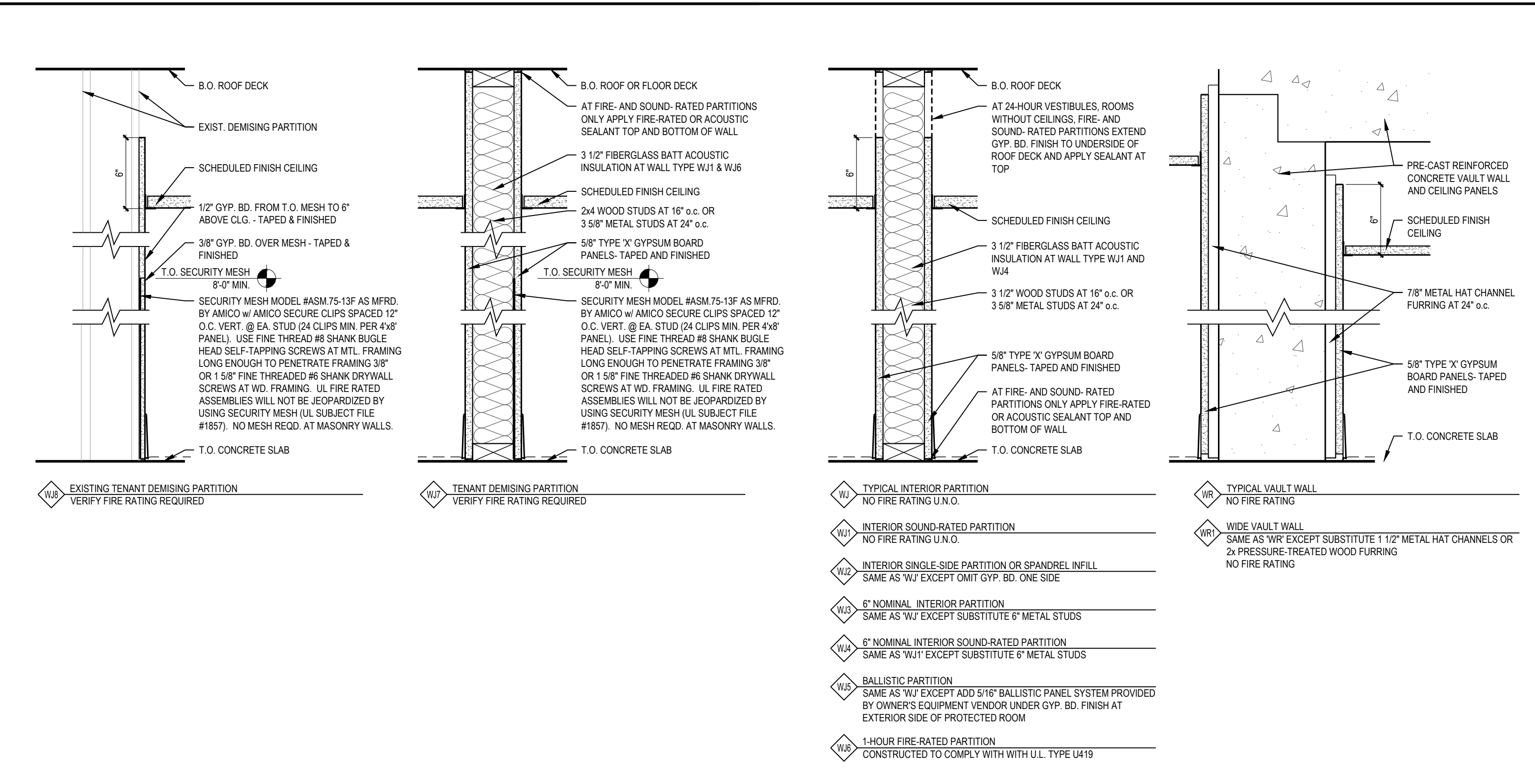
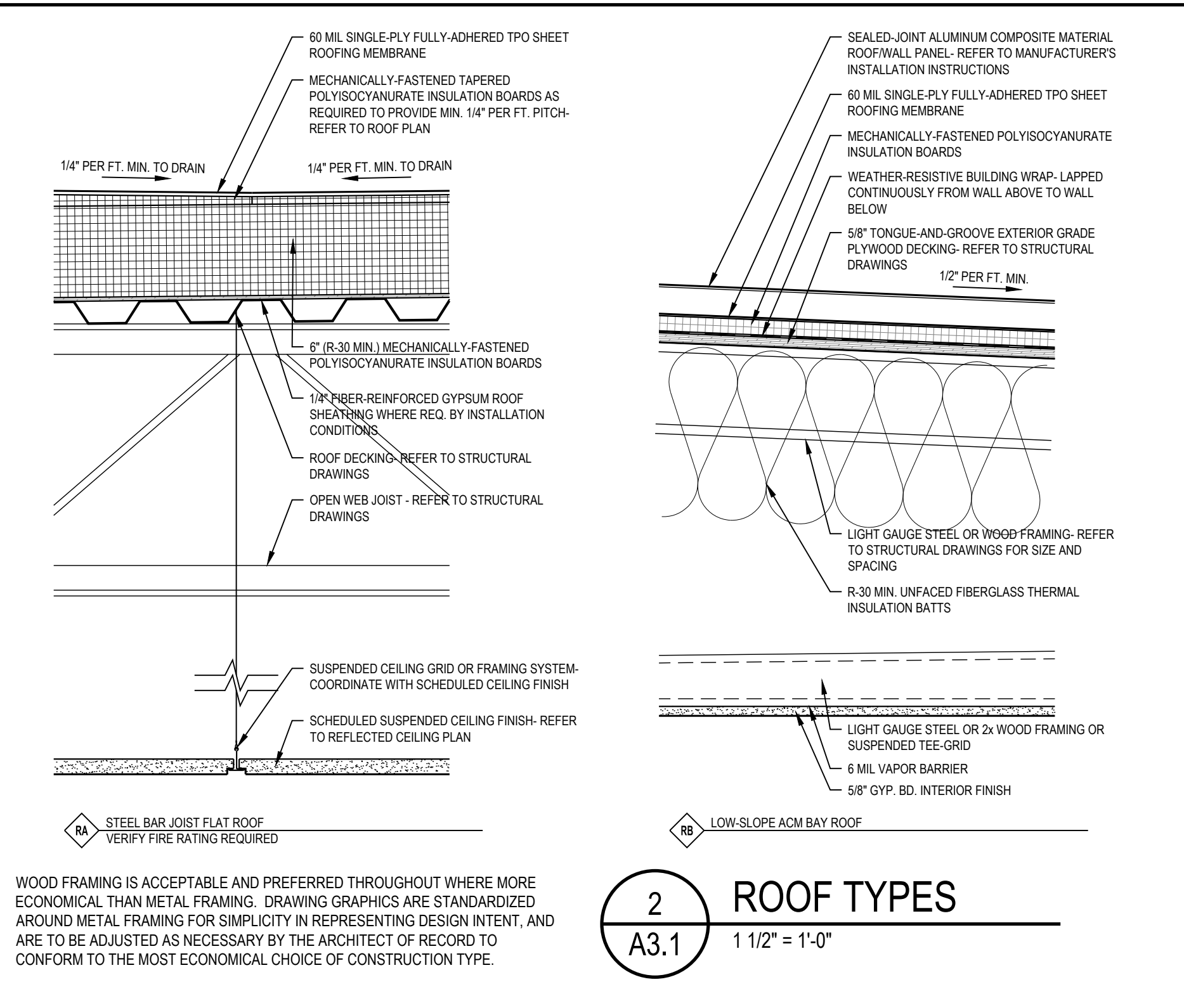
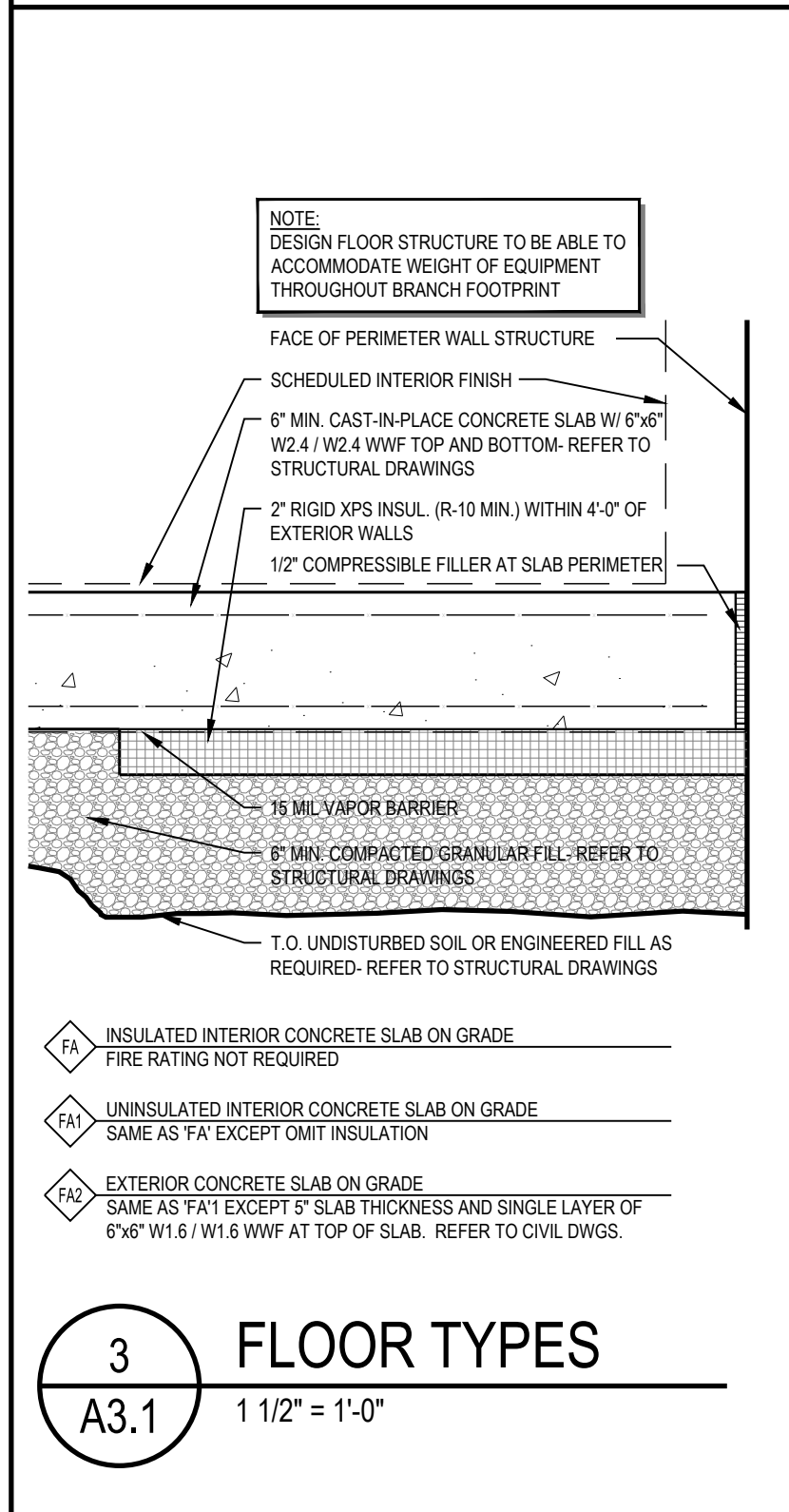


PRYOR & LOWENSTEIN  
 PROTOTYPE VERSION 20.4

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 WALL TYPES  
 FLOOR TYPES  
 ROOF TYPES

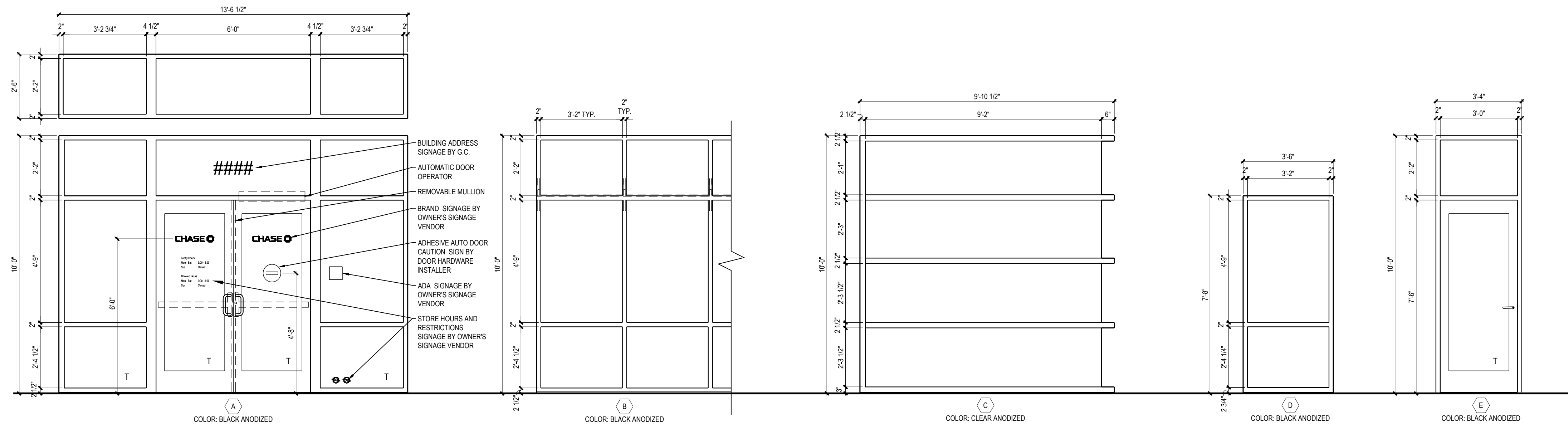
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**A3.1**



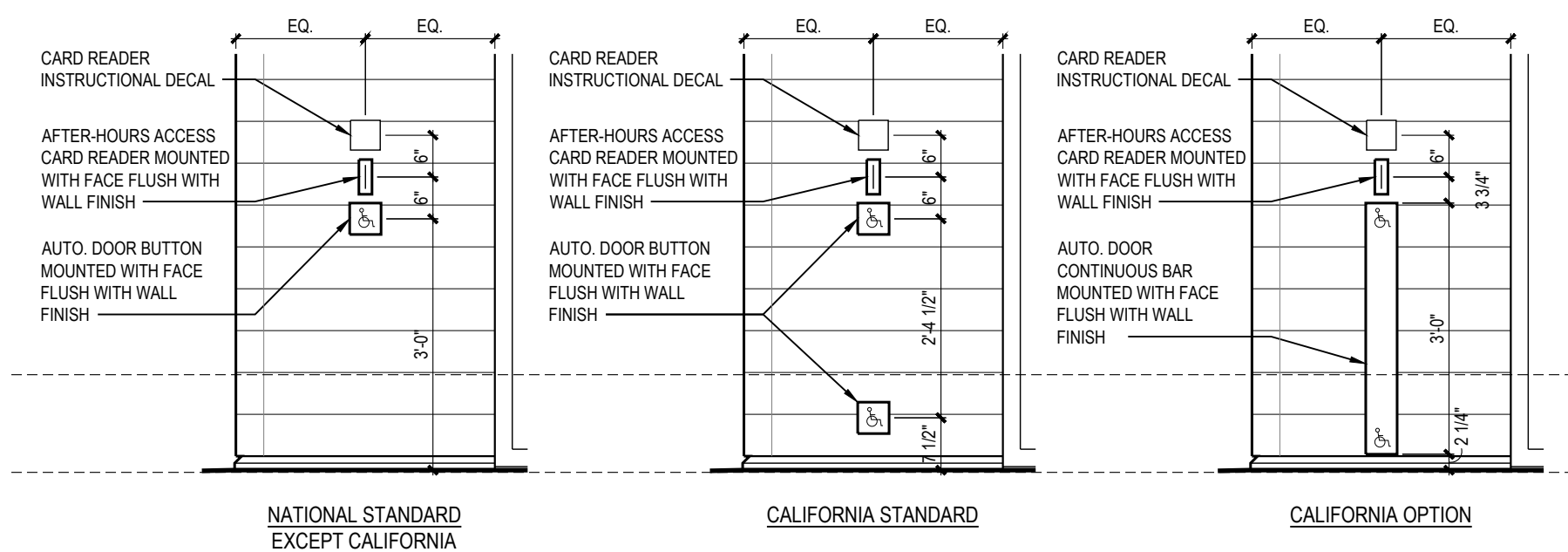
**DOOR TYPES SCHEDULE**

| TYPE   | TYPICAL SIZE   |                     |        | DOOR                                |  | FRAME        |  | HDWR.   | NOTES  |
|--|----------------|---------------------|--------|-------------------------------------|--|--------------|--|---------|--|
|  | W              | H                   | T      | MATERIAL                            | FINISH   | MATERIAL     | FINISH                                 |         |  |
| A<br>ENTRANCE                                | (2) 3'-1 3/4"  | 7'-6"               | 1 3/4" | ALUMINUM / INSUL. GLASS             | BLACK ANODIZED   | ALUMINUM     | BLACK ANODIZED                         | 01      | WIDE-STILE, 10" BOTTOM RAILS, REMOVABLE MULLION, STORE HOURS SIGNAGE BY OWNER  |
| A<br>(2ND ENTRANCE)                          | (2) 3'-1 3/4"  | 7'-6"               | 1 3/4" | ALUMINUM / INSUL. GLASS             | BLACK ANODIZED   | ALUMINUM     | BLACK ANODIZED                         | 01A     | WIDE-STILE, 10" BOTTOM RAILS, REMOVABLE MULLION, STORE HOURS SIGNAGE BY OWNER  |
| B<br>VESTIBULE                               | (2) 3'-0"      | 7'-6"               | 1 3/4" | ALUMINUM / GLASS                    | BLACK ANODIZED   | ALUMINUM     | BLACK ANODIZED                         | 02      | NOT USED IN PROTOTYPE PLANS. WIDE-STILE, 10" BOTTOM RAILS, REMOVABLE MULLION   |
| E<br>SECURED                                 | 3'-0"<br>3'-4" | 7'-0"               | 1 3/4" | SOLID-CORE<br>FLUSH WOOD            | PAINT TO MATCH ADJACENT<br>WALL  | HOLLOW METAL | PAINT TO MATCH ADJACENT<br>WALL        | 03      | 3'-0" TYPICAL WIDTH, 3'-4" WIDTH AT ATM & SDB ROOMS; CLOSER CONCEALED FROM CUSTOMER VIEW   |
| F<br>PRIVACY<br>(RESTROOM,<br>SDB CHEST RM.) | 3'-0"<br>3'-4" | 7'-0"               | 1 3/4" | SOLID-CORE WOOD                     | PAINT TO MATCH ADJACENT<br>WALL  | HOLLOW METAL | PAINT TO MATCH ADJACENT<br>WALL        | 04      | TYPICAL AT RESTROOMS AND SDB ROOMS WITH VIEWING CARRELS, UNDERCUT DOORS 1" WHEN ROOM PROVIDED WITH ONLY SUPPLY AIR OR RETURN AIR OR EXHAUST.   |
| F1<br>PRIVACY<br>(SDB VIEWING RM.)           | 3'-0"<br>3'-4" | 7'-0"               | 1 3/4" | SOLID-CORE WOOD                     | PAINT TO MATCH ADJACENT<br>WALL  | HOLLOW METAL | PAINT TO MATCH ADJACENT<br>WALL        | 04A     | TYPICAL AT SDB VIEWING ROOMS. UNDERCUT DOORS 1" WHEN ROOM PROVIDED WITH ONLY SUPPLY AIR OR RETURN AIR OR EXHAUST.  |
| G<br>BULLET-RESISTANT                        | 3'-0"<br>3'-4" | 7'-0"               | 1 3/4" | REINFORCED SOLID-CORE<br>FLUSH WOOD | PAINT TO MATCH ADJACENT<br>WALL  | HOLLOW METAL | PAINT TO MATCH ADJACENT<br>WALL        | 10      | DOOR, FRAME, HINGE AND CLOSER PROVIDED BY BANK EQUIPMENT VENDOR. G.C.'S PAINTER TO FIELD PRIME WITH ETCHING PRIMER AND PAINT DOOR AND FRAME  |
| H<br>EGRESS/STEEL                            | 3'-0"          | 7'-6"               | 1 3/4" | INSUL. STEEL                        | INT.: MATCH WALL<br>EXT.: EPT-1  | HOLLOW METAL | INT.: MATCH WALL<br>EXT.: EPT-1        | 09      | EGRESS DOORS IN HOLLOW METAL FRAMES  |
| L<br>UTILITY                                 | 3'-0"          | 7'-0"               | 1 3/4" | SOLID-CORE<br>FLUSH WOOD            | PAINT TO MATCH ADJACENT<br>WALL  | HOLLOW METAL | PAINT TO MATCH ADJACENT<br>WALL        | 06      | OMIT CLOSER AND HOLD-OPEN AT DOORS TO ROOMS WITH LADDERS ONLY. UNDERCUT DOORS 1" WHEN ROOM PROVIDED WITH ONLY SUPPLY AIR OR RETURN AIR OR EXHAUST. PROVIDE KICK PLATES AT EACH SIDE, AND COMBINED STOP/HOLDER PER HARDWARE SCHEDULE.   |
| L1<br>FIRE-RATED<br>UTILITY                  | 3'-0"          | 7'-0"               | 1 3/4" | SOLID-CORE<br>FLUSH WOOD            | PAINT TO MATCH ADJACENT<br>WALL  | HOLLOW METAL | PAINT TO MATCH ADJACENT<br>WALL        | 06      | SAME AS "L" EXCEPT FIRE-RESISTANCE RATED FOR 1 HOUR. INCLUDE FULL PERIMETER SMOKE SEALS AND SWEEP.   |
| M<br>PASSAGE                                 | 3'-0"<br>3'-4" | 7'-0"               | 1 3/4" | SOLID-CORE<br>FLUSH WOOD            | PAINT TO MATCH ADJACENT<br>WALL  | HOLLOW METAL | PAINT TO MATCH ADJACENT<br>WALL        | 05      | TYPICAL AT 2ND DOOR IN A SERIES TO A ROOM WITH BANK EQUIPMENT WHERE THE FIRST DOOR IS TYPE E, ALSO FOR USE AT NON-SECURED CLOSETS  |
| Q<br>OVERHEAD COILING                        | SEE PLAN       | FLUSH W/<br>CEILING | NA     | ALUMINUM /<br>POLYCARBONATE         | BLACK ANODIZED-<br>FIELD-PAINT BOTTOM<br>RAIL/PLATE BOTTOM<br>SURFACE PT-500 | ALUMINUM     | CLEAR ANODIZED<br>(JAMB CHANNELS ONLY) | BY MFR. | QM SECURITY SOLUTIONS TRANSPAROLL NPT (SUBSTITUTIONS NOT PERMITTED). PROVIDE FLUSH KEY SWITCHES WITH SCHLAGE C123 CORES: 2 AT SITES WITHOUT SEPARATE EMPLOYEE ACCESS, 1 AT SITES WITH SEPARATE EMPLOYEE ACCESS; PROVIDE BATTERY BACKUP POWER WITH REQUIRED ACCESS ABOVE CEILING. |
| R<br>EMPLOYEE ENTRANCE                       | 3'-0"          | 7'-6"               | 1 3/4" | ALUMINUM / GLASS                    | BLACK ANODIZED   | ALUMINUM     | BLACK ANODIZED                         | 16      |  |

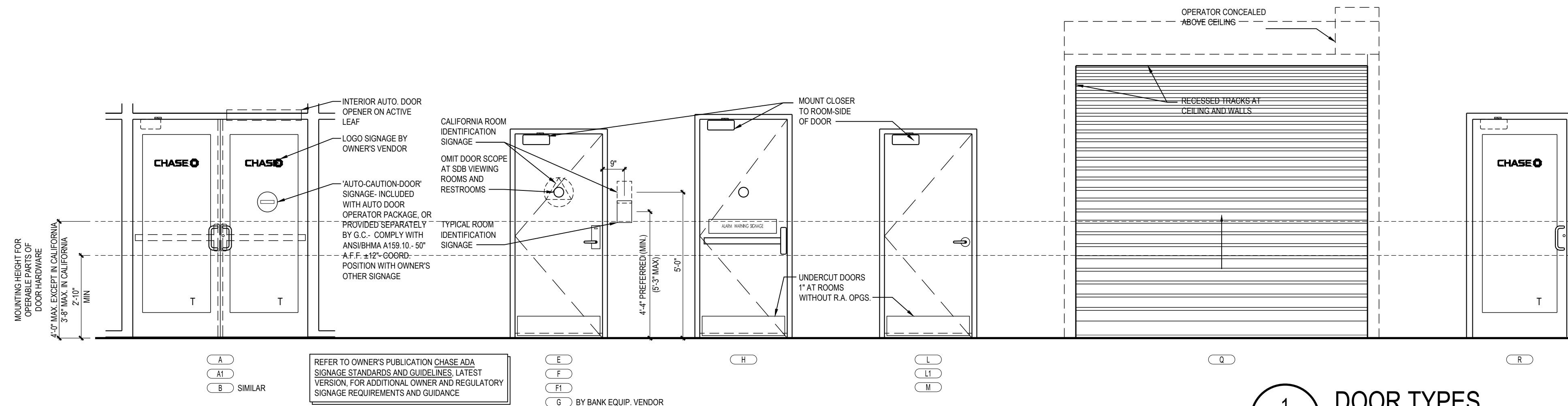


- REFER TO OWNER'S PUBLICATION CHASE ADA SIGNAGE STANDARDS AND GUIDELINES, LATEST VERSION, FOR ADDITIONAL OWNER AND REGULATORY SIGNAGE REQUIREMENTS AND GUIDANCE
- AT NON-ADA-COMPLIANT ENTRANCES, PROVIDE ADA-COMPLIANT DIRECTIONAL SIGNAGE FEATURING THE INTERNATIONAL SYMBOL OF ACCESSIBILITY AS REQD. TO DIRECT APPROACHING FOOT TRAFFIC TO THE COMPLIANT ENTRANCE
- ALL UNIT DIMENSIONS ARE NOMINAL AND MAY VARY BY MANUFACTURER. COORDINATE WITH WALL SECTIONS
- INDIVIDUAL LITES DESIGNATED WITH THE 'T' SYMBOL REQUIRE TEMPERED SAFETY GLASS- VERIFY ADDITIONAL REQUIREMENTS WITH APPLICABLE BUILDING CODES
- MODIFY SIGNAGE DESIGN AS REQUIRED TO COMPLY WITH LOCAL BUILDING AND ZONING CODES AND SUBMIT TO OWNER FOR APPROVAL

**2 WINDOW TYPES**  
A3.2.1 1/4" = 1'-0"



**3 AUTO. DOOR BUTTONS AND SIGNAGE**  
A3.2.1 1/2" = 1'-0"



**1 DOOR TYPES**  
A3.2.1 1/4" = 1'-0"

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DOOR TYPES SCHEDULE  
DOOR TYPES  
WINDOW TYPES

02/04/2022  
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**A3.2.1**







| INT. FIN. MATERIALS SCHEDULE |  |                                   |
|------------------------------|--|-----------------------------------|
| PAINT                        |  |                                   |
| PT-311                       | ACCENT PAINT- NAVY                           |                                   |
|                              | MFR.   | BENJAMIN MOORE                    |
|                              | PRODUCT                                      | ULTRA SPEC SCUFF-X                |
|                              | PRODUCT NUMBER                               | OLD NAVY #2063-10                 |
| PT-500                       | GENERAL WALL/ CEILING PAINT                  |                                   |
|                              | MFR.   | BENJAMIN MOORE                    |
|                              | PRODUCT                                      | AURA WATERBORNE INTERIOR PAINT    |
|                              | COLOR  | CLOUD WHITE #CC-40                |
| PT-501                       | ACCENT WALL PAINT- GREY                      |                                   |
|                              | MFR.   | BENJAMIN MOORE                    |
|                              | PRODUCT                                      | AURA WATERBORNE INTERIOR PAINT    |
|                              | COLOR  | HEARTHSTONE #1601                 |
| WALL FINISHES                |  |                                   |
| WC-402                       | WALLCOVERING AT ATM WALL                     |                                   |
|                              | MFR.   | MOMENTUM TEXTILES                 |
|                              | PRODUCT                                      | RECORE 'BACCARAT'                 |
|                              | COLOR  | BASALT #NA-4C-JPM501              |
|                              | WIDTH  | 53" ROLLED MATERIAL               |
| FRP-1                        | FIBERGLASS-REINFORCED PLASTIC PANELING       |                                   |
|                              | MFR.   | CRANE COMPOSITES                  |
|                              | PRODUCT                                      | GLASBORD PIF                      |
|                              | FINISH                                       | 84 IVORY                          |
|                              | LOCATIONS                                    | JANITOR CLOSET / LADDER ROOM      |
| WINDOW TREATMENTS            |  |                                   |
| WT-1                         | MOTORIZED ROLLING SHADE (5% OPENNESS FACTOR) |                                   |
|                              | VENDOR / INSTALLER                           | LUMENOMICS                        |
|                              | PRODUCT                                      | SHEER WEAVE 2000                  |
|                              | SHADE COLOR                                  | WHITE PLATINUM P05                |
|                              | HOUSING                                      | REFER TO INTERIOR FINISH SCHEDULE |
| WT-1 ALT                     | MOTORIZED ROLLING SHADE (5% OPENNESS FACTOR) |                                   |
|                              | VENDOR / INSTALLER                           | ROLL-A-SHADE                      |
|                              | PRODUCT                                      | SHEER WEAVE 2000                  |
|                              | SHADE COLOR                                  | WHITE PLATINUM P05                |
|                              | HOUSING                                      | REFER TO INTERIOR FINISH SCHEDULE |
| WT-2                         | MOTORIZED ROLLING SHADE (3% OPENNESS FACTOR) |                                   |
|                              | VENDOR / INSTALLER                           | LUMENOMICS                        |
|                              | PRODUCT                                      | SHEER WEAVE 2410 P14              |
|                              | SHADE COLOR                                  | PEARL GREY / OYSTER               |
|                              | HOUSING                                      | REFER TO INTERIOR FINISH SCHEDULE |
| WT-2 ALT                     | MOTORIZED ROLLING SHADE (3% OPENNESS FACTOR) |                                   |
|                              | VENDOR / INSTALLER                           | ROLL-A-SHADE                      |
|                              | PRODUCT                                      | SHEER WEAVE 2410 P14              |
|                              | SHADE COLOR                                  | PEARL GREY / OYSTER               |
|                              | HOUSING                                      | REFER TO INTERIOR FINISH SCHEDULE |
| WT-4                         | FROSTED WINDOW FILM                          |                                   |
|                              | MFR.   | LLUMAR                            |
|                              | PRODUCT                                      | NRM PS2                           |
|                              | COLOR  | FROSTED 69% TRANSMITTANCE         |
| WT-5                         | MANUAL ROLLING SHADE (5% OPENNESS FACTOR)    |                                   |
|                              | VENDOR / INSTALLER                           | LUMENOMICS                        |
|                              | PRODUCT                                      | SHEER WEAVE 2000                  |
|                              | SHADE COLOR                                  | WHITE PLATINUM P05                |
|                              | HOUSING                                      | REFER TO INTERIOR FINISH SCHEDULE |


|           |   |   |
|-----------|---|---|
| WT-5 ALT  | MANUAL ROLLING SHADE (5% OPENNESS FACTOR) |   |
|           | VENDOR / INSTALLER                        | ROLL-A-SHADE  |
|           | PRODUCT                                   | SHEER WEAVE 2000  |
|           | SHADE COLOR                               | WHITE PLATINUM P05  |
| WT-6      | MANUAL ROLLING SHADE (3% OPENNESS FACTOR) |   |
|           | VENDOR / INSTALLER                        | LUMENOMICS  |
|           | PRODUCT                                   | SHEER WEAVE 2410 P14                                      |
|           | SHADE COLOR                               | PEARL GREY / OYSTER                                       |
| WT-6 ALT  | MANUAL ROLLING SHADE (3% OPENNESS FACTOR) |   |
|           | VENDOR / INSTALLER                        | ROLL-A-SHADE  |
|           | PRODUCT                                   | SHEER WEAVE 2410 P14                                      |
|           | SHADE COLOR                               | PEARL GREY / OYSTER                                       |
| WT-7      | DOUBLE-ROLLER SHADE                       |   |
|           | VENDOR / INSTALLER                        | LUMENOMICS  |
|           | PRODUCT                                   | MBOR  |
|           | FRONT SHADE                               | MATCH TYPICAL FABRIC WITHIN BRANCH, WT-1 OR WT-2          |
| WT-7 ALT  | DOUBLE-ROLLER SHADE                       |   |
|           | VENDOR / INSTALLER                        | ROLL-A-SHADE  |
|           | PRODUCT                                   | MBOR  |
|           | FRONT SHADE                               | MATCH TYPICAL FABRIC WITHIN BRANCH, WT-1 OR WT-2          |
| WT-8      | FIELD-APPLIED SPANDREL FILM               |   |
|           | VENDOR / INSTALLER                        | 3M  |
|           | PRODUCT                                   | SCOTCHCAL GRAPHIC FILM                                    |
|           | COLOR                                     | 3630-51, SILVER   |
| WT-20     | MOTORIZED ROLLING TELLER SCRIM (OPAQUE)   |   |
|           | VENDOR / INSTALLER                        | LUMENOMICS  |
|           | PRODUCT                                   | MOBR INTERIOR SUN CONTROL FABRICS PHIFER SHEAR WEAVE 7100 |
|           | ENCLOSURE COLOR                           | ANODIZED ALUMINUM - PAINT TO MATCH ADJACENT FINISHES      |
|           | EXPOSED HEM BAR                           | ANODIZED ALUMINUM WITH GREY RUBBER BOTTOM SEAL            |
| WT-20 ALT | MOTORIZED ROLLING TELLER SCRIM (OPAQUE)   |   |
|           | VENDOR / INSTALLER                        | ROLL-A-SHADE  |
|           | PRODUCT                                   | MOBR INTERIOR SUN CONTROL FABRICS PHIFER SHEAR WEAVE 7100 |
|           | ENCLOSURE COLOR                           | ANODIZED ALUMINUM - PAINT TO MATCH ADJACENT FINISHES      |
|           | EXPOSED HEM BAR                           | ANODIZED ALUMINUM WITH GREY RUBBER BOTTOM SEAL            |
| WT-11     | SPANDREL GLAZING (SPECIAL- CASE USE ONLY) |   |
|           | MFR.                                      | VIRACON   |
|           | PRODUCT                                   | VIRAPSAN  |
|           | COLOR                                     | MEDIUM GRAY   |
| WT-11     | NOTES                                     | LEAD FREE<br>OPTION FOR FIELD APPLIED TREATMENT           |

|         |  |   |
|---------|--|---|
| GF-300  | DISTRACTION BANDING                            |   |
|         | MFR.   | DESIGNTEX                                   |
|         | PRODUCT  | #146504                                     |
|         | FURNISHED BY                                   | EMPIRE                                      |
| WB-402  | VINYL WALL BASE- STRAIGHT- AREAS WITH FLOORING |   |
|         | MFR.   | JOHNSONITE                                  |
|         | PRODUCT  | TIGHTLOCK                                   |
|         | COLOR  | 20 CHARCOAL WG                              |
| WB-403  | VINYL WALL BASE- COVE- AREAS WITH EXPOSED SLAB |   |
|         | MFR.   | JOHNSONITE                                  |
|         | PRODUCT  | TRADITIONAL WALL BASE                       |
|         | COLOR  | 20 CHARCOAL WG                              |
| SS-300  | SOLID SURFACE MATERIAL                         |   |
|         | DESCRIPTION                                    | 1/2" ACRYLIC SOLID SURFACE WITH EASED EDGES |
|         | MFR.   | DUPONT CORIAN                               |
|         | COLOR  | SILVER BIRCH                                |
| PL-502  | MILLWORK LAMINATE                              |   |
|         | DESCRIPTION                                    | PLASTIC LAMINATE                            |
|         | MFR.   | WILSONART                                   |
|         | COLOR  | NATURAL RECON 7996-38                       |
| PL-503  | MILLWORK LAMINATE                              |   |
|         | DESCRIPTION                                    | PLASTIC LAMINATE                            |
|         | MFR.   | WILSONART                                   |
|         | COLOR  | LECHE VESTA 4987K-07                        |
| WD-502  | WOOD ACCENT                                    |   |
|         | DESCRIPTION                                    | ENGINEERED PLANK, RAKED PROFILE             |
|         | MFR.   | PIONEER MILLWORKS                           |
|         | PRODUCT  | MODERN FARMHOUSE- CLEAN ASH                 |
|         | SIZE   | 5 1/2" X 5/8", FCS MIX                      |
| WD-601  | VENEER PANELS                                  |   |
|         | MFR.   | BROOKSIDE VENEERS                           |
|         | PRODUCT  | 10 B4 UNFINISHED                            |
|         | SPECIES  | PLANKED SLAVONY OAK                         |
| CPT-302 | WALK-OFF MAT                                   |   |
|         | MFR.   | SBEMCO / MATTING BY DESIGN                  |
|         | PRODUCT  | ULTRA DRY PCR PET                           |
|         | COLOR  | PUMICE #620                                 |
| CPT-320 | GENERAL CARPET                                 |   |
|         | MFR.   | INTERFACE                                   |
|         | PRODUCT  | HARMONIZE                                   |
|         | COLOR  | GRAVEL 104043                               |

|         |  |  |
|---------|--|--|
| CPT-321 | MANUAL TRANSACTION AREA CARPET           |  |
|         | MFR.                                     | INTERFACE  |
|         | PRODUCT                                  | HARMONIZE  |
|         | COLOR                                    | GRAVEL 104043  |
| LRAR-4  | FLOATING CARPET- NAVY                    |  |
|         | MFR.                                     | INTERFACE  |
|         | PRODUCT                                  | HAPTIC   |
|         | COLOR                                    | INDIGO   |
| T-402   | RESTROOM WALL & FLOOR TILE/ LOUNGE       |  |
|         | MFR.                                     | STONE SOURCE   |
|         | PRODUCT                                  | CREOS  |
|         | COLOR                                    | DORIAN   |
| T-501   | GENERAL FLOOR TILE                       |  |
|         | MFR.                                     | STONE SOURCE   |
|         | PRODUCT                                  | CREOS  |
|         | COLOR                                    | DORIAN   |
| SC      | CONCRETE FLOOR PAINT (NON-CUSTOMER AREA) |  |
|         | MFR.                                     | SHERWIN WILLIAMS   |
|         | PRODUCT                                  | TREAD-FLX 100% ACRYLIC WATER BASED FLOOR COATING   |
|         | COLOR                                    | DECK GRAY  |
| ACT-2   | ACOUSTICAL CEILING (NON-CUSTOMER AREAS)  |  |
|         | MFR.                                     | USG  |
|         | PRODUCT                                  | MARS CLIMAPLUS HIGH-NRC (ITEM NO. 87100)   |
|         | COLOR                                    | WHITE  |
| ACT-4   | ACOUSTICAL CEILING (CUSTOMER AREAS)      |  |
|         | MFR.                                     | USG  |
|         | PRODUCT                                  | MARS HIGH-NRC LOGIX CLIMAPLUS PERFORMANCE FIELD AND CHANNEL PANELS                               |
|         | COLOR                                    | WHITE  |
| NOTES   | 1  | INTUMESCENT FLAME RETARDANT- FIREKOTE 100 AS MANUFACTURED BY UNIVERSAL FIRE SHIELD. CLEAR FINISH |

| REGIONAL WINDOW SHADE FABRICS |                    |                    |
|-------------------------------|--------------------|--------------------|
| MIDWEST REGION                | 3% OPENNESS FACTOR | 5% OPENNESS FACTOR |
| ILLINOIS                      |                    | X                  |
| INDIANA                       |                    | X                  |
| IOWA                          |                    | X                  |
| KANSAS                        |                    | X                  |
| MICHIGAN                      |                    | X                  |
| MINNESOTA                     |                    | X                  |
| MISSOURI                      |                    | X                  |
| NEBRASKA                      |                    | X                  |
| OHIO                          |                    | X                  |
| NORTH DAKOTA                  |                    | X                  |
| SOUTH DAKOTA                  |                    | X                  |
| WISCONSIN                     |                    | X                  |
| NORTHEAST REGION              | 3% OPENNESS FACTOR | 5% OPENNESS FACTOR |
| CONNECTICUT                   |                    | X                  |
| MAINE                         |                    | X                  |
| MASSACHUSETTES                |                    | X                  |
| NEW HAMPSHIRE                 |                    | X                  |
| NEW JERSEY                    |                    | X                  |
| NEW YORK                      |                    | X                  |
| PENNSYLVANIA                  |                    | X                  |
| RHODE ISLAND                  |                    | X                  |
| VERMONT                       |                    | X                  |
| SOUTH REGION                  | 3% OPENNESS FACTOR | 5% OPENNESS FACTOR |
| ALABAMA                       | X                  |                    |
| ARKANSAS                      | X                  |                    |
| NORTH CAROLINA                | X                  |                    |
| SOUTH CAROLINA                | X                  |                    |
| DELAWARE                      |                    | X                  |
| FLORIDA                       | X                  |                    |
| GEORGIA                       | X                  |                    |
| KENTUCKY                      |                    | X                  |
| LOUISIANA                     | X                  |                    |
| MARYLAND                      |                    | X                  |
| MISSISSIPPI                   | X                  |                    |
| OKLAHOMA                      | X                  |                    |
| TENNESSEE                     |                    | X                  |
| TEXAS                         | X                  |                    |
| VIRGINIA                      |                    | X                  |
| WASHINGTON D.C.               |                    | X                  |
| WEST VIRGINIA                 |                    | X                  |
| WEST REGION                   | 3% OPENNESS FACTOR | 5% OPENNESS FACTOR |
| ARIZONA                       | X                  |                    |
| CALIFORNIA                    | X                  |                    |
| COLORADO                      | X                  |                    |
| IDAHO                         |                    | X                  |
| MONTANA                       |                    | X                  |
| NEVADA                        | X                  |                    |
| NEW MEXICO                    | X                  |                    |
| OREGON                        |                    | X                  |
| UTAH                          | X                  |                    |
| WASHINGTON                    |                    | X                  |
| WYOMING                       |                    | X                  |

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 6/1/2022

**PRYOR ROAD & LOWENSTEIN DRIVE**  
 908 NW PRYOR ROAD  
 LEE'S SUMMIT, MO 64081

EBI JOB #412100090

| ISSUE | DATE       | DESCRIPTION      |
|-------|------------|------------------|
| 0     | 03/02/2022 | PERMIT           |
| 1     | 04/11/2022 | PERMIT REVISIONS |



PRYOR & LOWENSTEIN  
 PROTOTYPE VERSION 20.4

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 INTERIOR FINISH MATERIALS  
 REGIONAL WINDOW SHADE FABRICS

02/04/2022  
 SHEET

# A3.3.2

FURNITURE SCHEDULE

Main furniture schedule table with columns: GROUP, OGL TAG, DESCRIPTION, VENDOR, VENDOR #, MANUFACTURER, MODEL, FINISH, FURNISHED BY (OWNER, GC, EQUIP. VENDOR, FURN. VENDOR), INSTALLED BY (OWNER, GC, EQUIP. VENDOR, FURN. VENDOR). Rows include FILES, LOUNGE, JANITOR'S CLOSET / GENERAL STORAGE, LIVING ROOM / LOBBY, MISC., and MANUAL TRANSACTIONS.

Conference and Private Consultation Space furniture schedule table with columns: GROUP, OGL TAG, DESCRIPTION, VENDOR, VENDOR #, MANUFACTURER, MODEL, FINISH, FURNISHED BY, INSTALLED BY. Rows include CONFERENCE (D-401D to CC6) and PRIVATE CONSULTATION SPACE (D-400A to WPD-8).

DESK, CONFERENCE AND GUEST CHAIRS table with columns: GROUP, OGL TAG, DESCRIPTION, VENDOR, VENDOR #, MANUFACTURER, MODEL, FINISH, FURNISHED BY, INSTALLED BY. Rows include DS, CH-311, CS-3, and CH-320.

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PRYOR ROAD & LOWENSTEIN DRIVE 908 NW PRYOR ROAD LEE'S SUMMIT, MO 64081

EBI JOB #412100090

ISSUE log table with columns: ISSUE, DATE, DESCRIPTION. Shows issues 0 and 1 with dates 03/02/2022 and 04/11/2022 respectively.



PRYOR & LOWENSTEIN PROTOTYPE VERSION 20.4

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FURNITURE SCHEDULE

02/04/2022

SHEET

A3.4.1

BANK EQUIPMENT SCHEDULE

Table with columns: TAG, DESCRIPTION, MANUFACTURER, PRODUCT (NOTE 3), FINISH, WEIGHT (NOTE 1), ELECTRICAL REQUIREMENTS, FURNISHED BY (OWNER, GC, ATM VENDOR, SIGNAGE VENDOR, BANK EQUIP. VENDOR, FURN VENDOR), INSTALLED BY (OWNER, GC, ATM RIGGER, SIGNAGE VENDOR, BANK EQUIP. VENDOR, FURN VENDOR), NOTES.

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REMARKS HAS SPECIFICATIONS... THEY WANT TO INCLUDE... OTHER PROJECT... OF HAMBURG, INC. IS STRICTLY PROHIBITED.

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Table with columns: ISSUE, DATE, DESCRIPTION. Rows: 0 03/02/2022 PERMIT, 1 04/11/2022 PERMIT REVISIONS.



PRYOR & LOWENSTEIN PROTOTYPE VERSION 20.4

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BANK EQUIPMENT SCHEDULE

02/04/2022

SHEET

A3.4.2

NOTES


- 1 ALL EQUIPMENT WEIGHTS ARE LISTED AS EMPTY.
2 B.O. SURROUND 7 1/4" AFF AT NCR UNIT, 12" AFF AT HYOSUNG UNIT.
3 MODEL NUMBERS ARE PROVIDED TO REFERENCE PRODUCT CUT SHEETS FOR SPACE PLANNING PURPOSES ONLY. PRIOR TO ORDERING EQUIPMENT, VERIFY MAKE / MODEL W/ CHASE BRANCH PLANNING MANAGER.
4 VENDOR TO INCLUDE INTERNAL CABLE DOOR STOP FOR FIELD-ADJUSTMENT BY INSTALLER TO STOP DOOR AS INDICATED IN PLAN.
5 INCLUDES CHEST MANUFACTURER'S LOCKERS.
6 INTERNAL BOX CONFIGURATION TO BE DETERMINED BY CHASE BRANCH PLANNING.
7 PROVIDE AMERICAN SECURITY PRODUCT CO. ESL20 DAY LOCK AT ALL SDB CHESTS IN ROOMS WITH VIEWING CARRELS.
8 PROVIDE MANUFACTURER'S KEY TRAYS AND MATCHING METAL CEILING AND WALL CLOSURE PANELS AS INDICATED IN DRAWINGS.
9 FOR USE BY EXCEPTION ONLY AT ROOMS WITH ACCESS TELLER AND NO MAIN CASH SAFE. INCLUDES INTERNAL TELLER CASH DRAWER LOCKERS.
10 INCLUDES MANUFACTURER'S ENCLOSURE, FLOOR POWER TRANSITION BOX, AND SIGN PANEL POWERED BY ATM.
11 6-SIDED, CLASS II, 9'-0" CLEAR INTERIOR HEIGHT.
12 PROVIDE DAY LOCK AT CHESTS LOCATED IN THE SAME ROOM AS A VIEWING CARREL.
13 NOT USED
14 ATM VENDOR TO PROVIDE AND INSTALL SCREEN LOCKING BRACKETS TO MAINTAIN SCREEN POSITION WITH ALL OPERABLE PARTS WITHIN ACCESSIBLE REACH RANGE.





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REMARKS HAS SPECIFICALLY MADE THE REVISIONS AND CHANGES TO THE DRAWINGS. THE CLIENT HAS REVIEWED AND APPROVED THE REVISIONS AND CHANGES. ANY OTHER REVISIONS MUST BE APPROVED BY THE ARCHITECT. ANY REVISIONS MUST BE APPROVED BY THE ARCHITECT. ANY REVISIONS MUST BE APPROVED BY THE ARCHITECT.

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**PRYOR ROAD & LOWENSTEIN DRIVE**  
 908 NW PRYOR ROAD  
 LEE'S SUMMIT, MO 64081

EBI JOB #4121000090

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**CHASE**

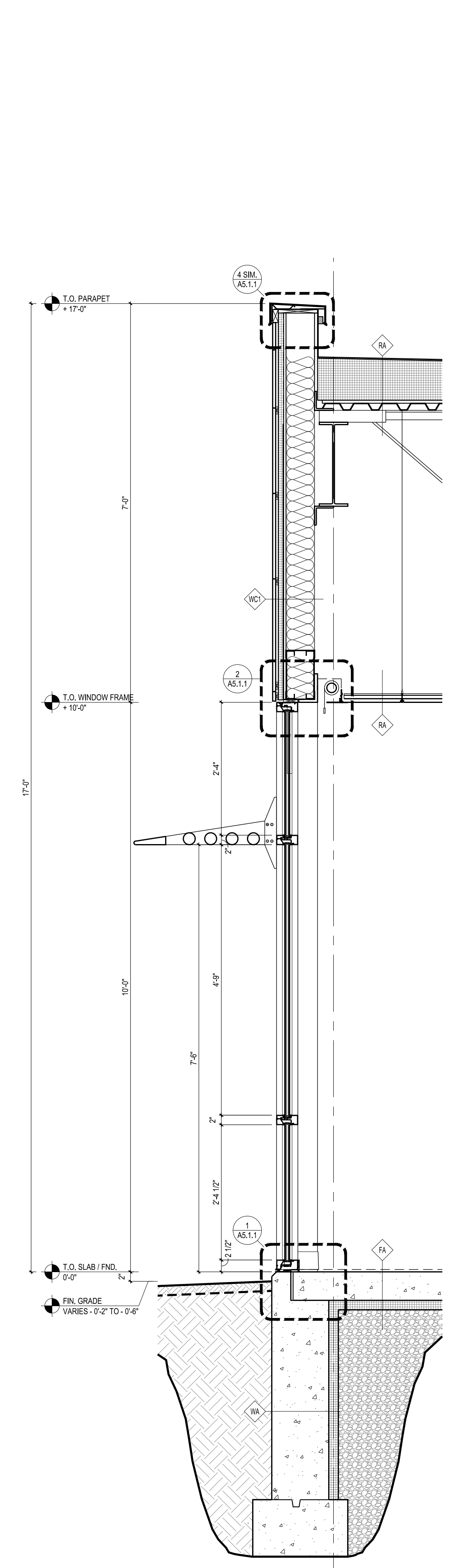
PRYOR & LOWENSTEIN  
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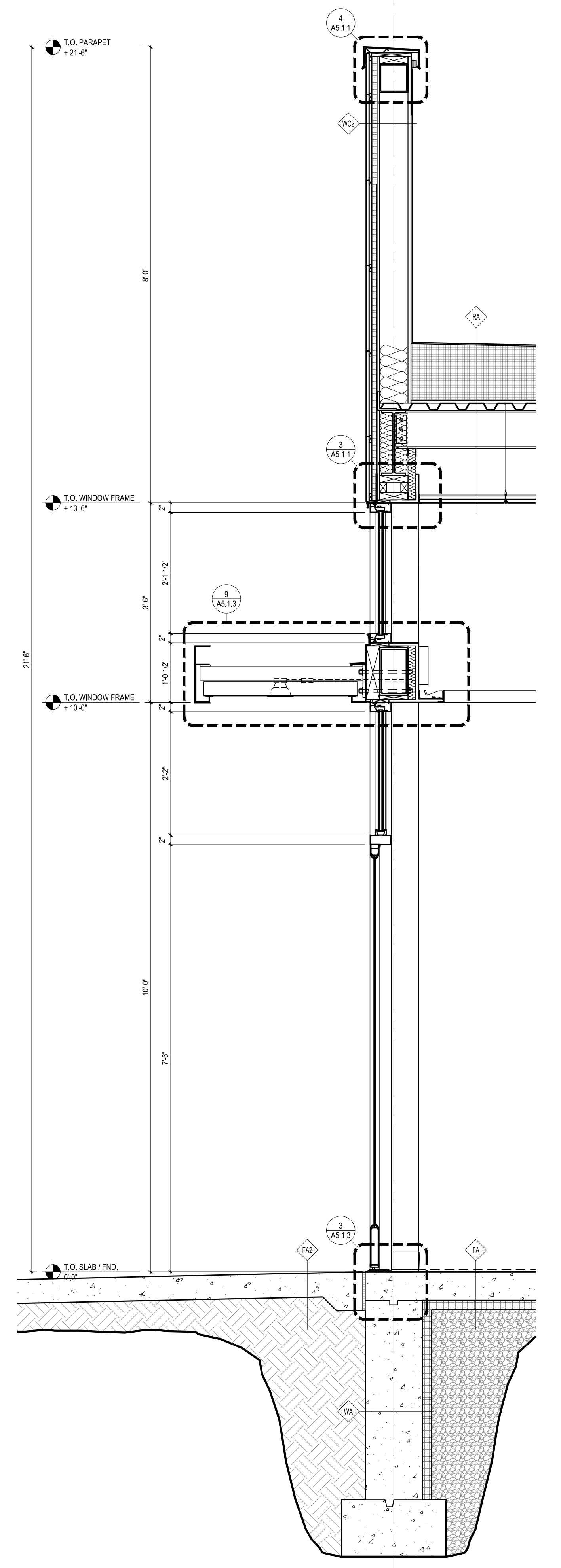
WALL SECTIONS

02/04/2022  
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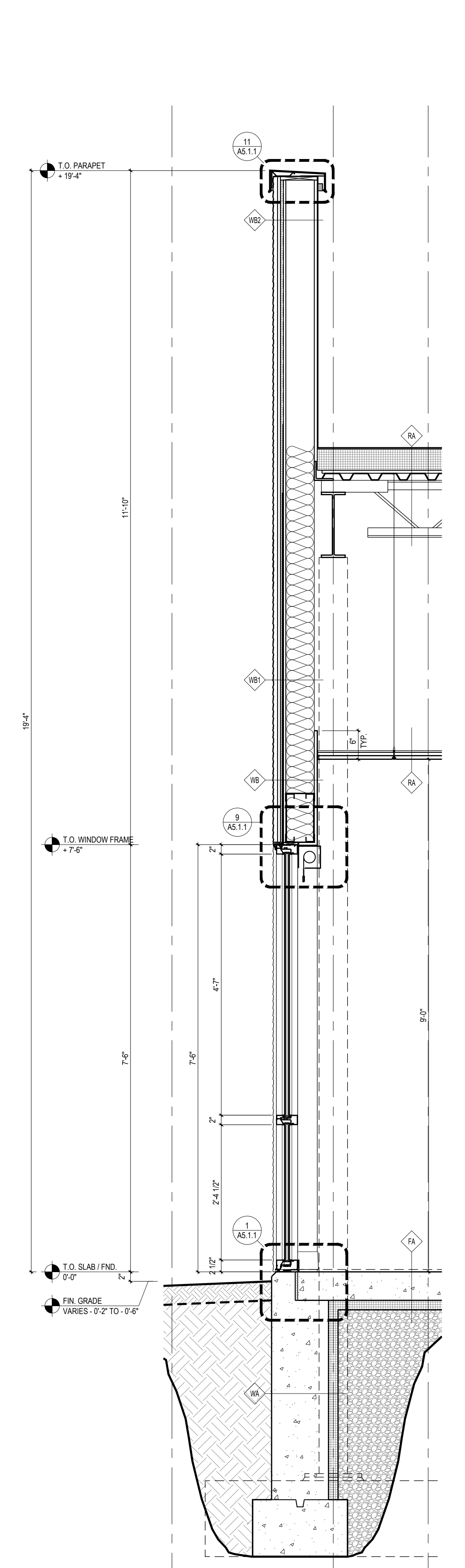
**A4.1**



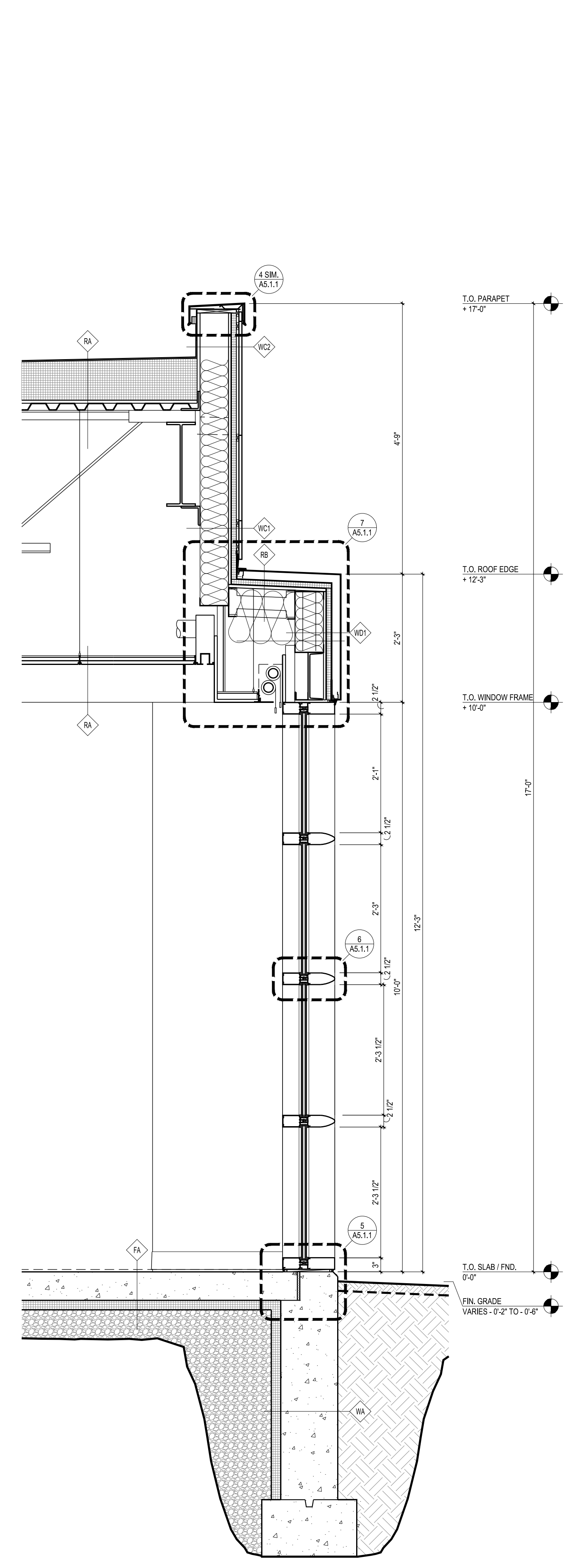
**1**  
 A4.1 3/4" = 1'-0"  
 TYPICAL STOREFRONT WALL SECTION



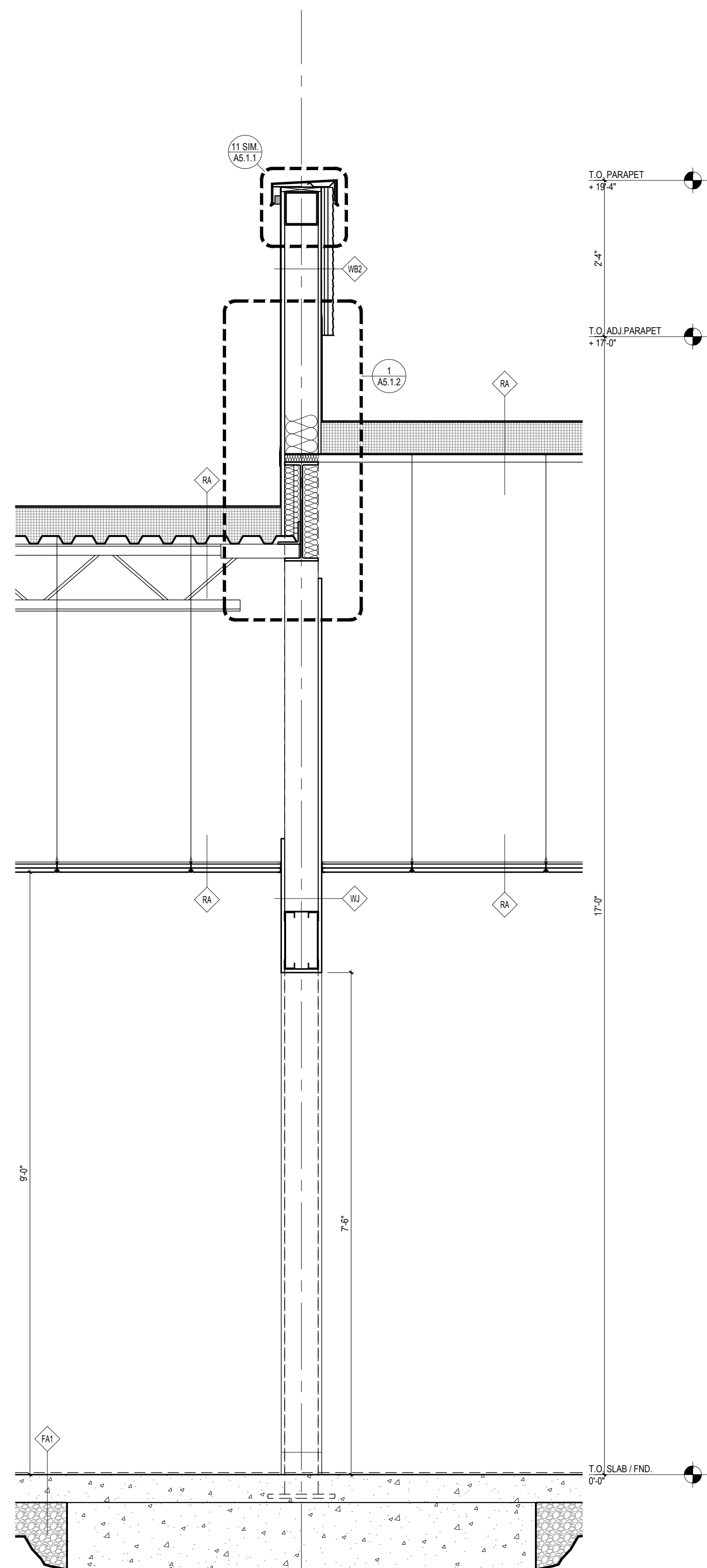
**2**  
 A4.1 3/4" = 1'-0"  
 TOWER WALL SECTION



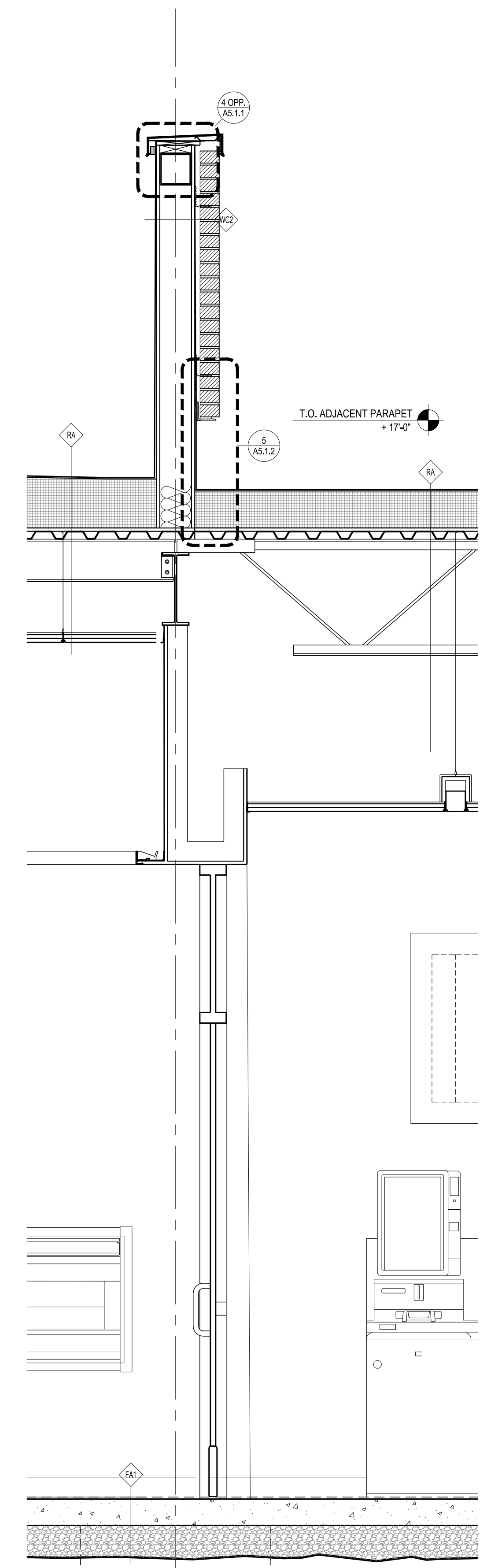
**3**  
 A4.1 3/4" = 1'-0"  
 UTILITY WALL SECTION



**4**  
 A4.1 3/4" = 1'-0"  
 BAY WALL SECTION




2  
A4.2  
ROOF TRANSITION WALL SECTION  
3/4" = 1'-0"



1  
A4.2  
ROOF TRANSITION WALL SECTION  
3/4" = 1'-0"

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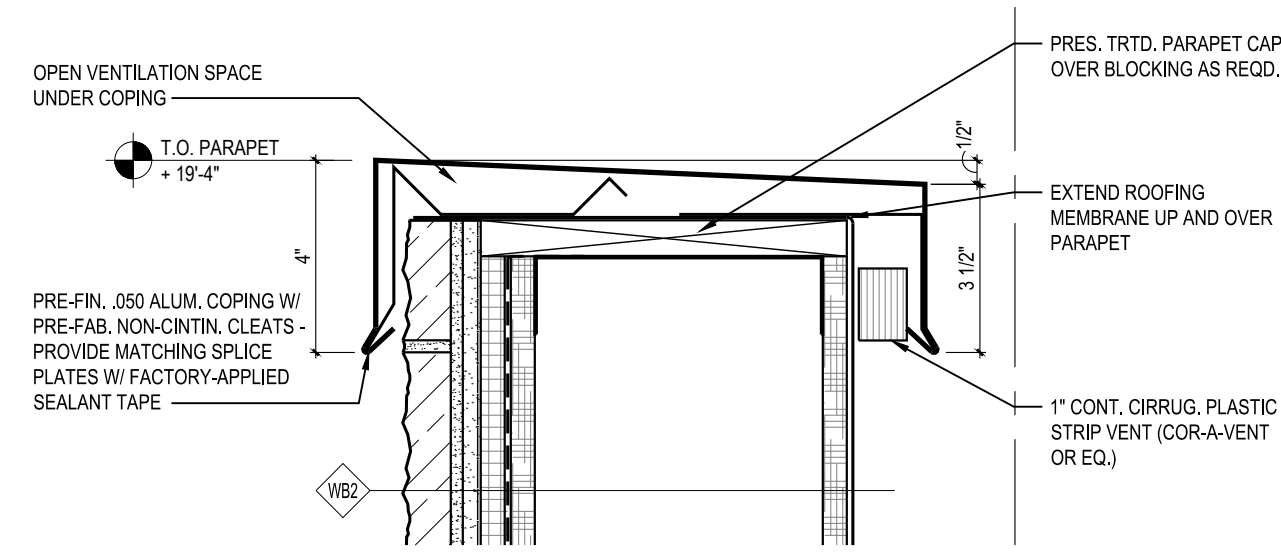


PRYOR & LOWENSTEIN  
 PROTOTYPE VERSION 20.4

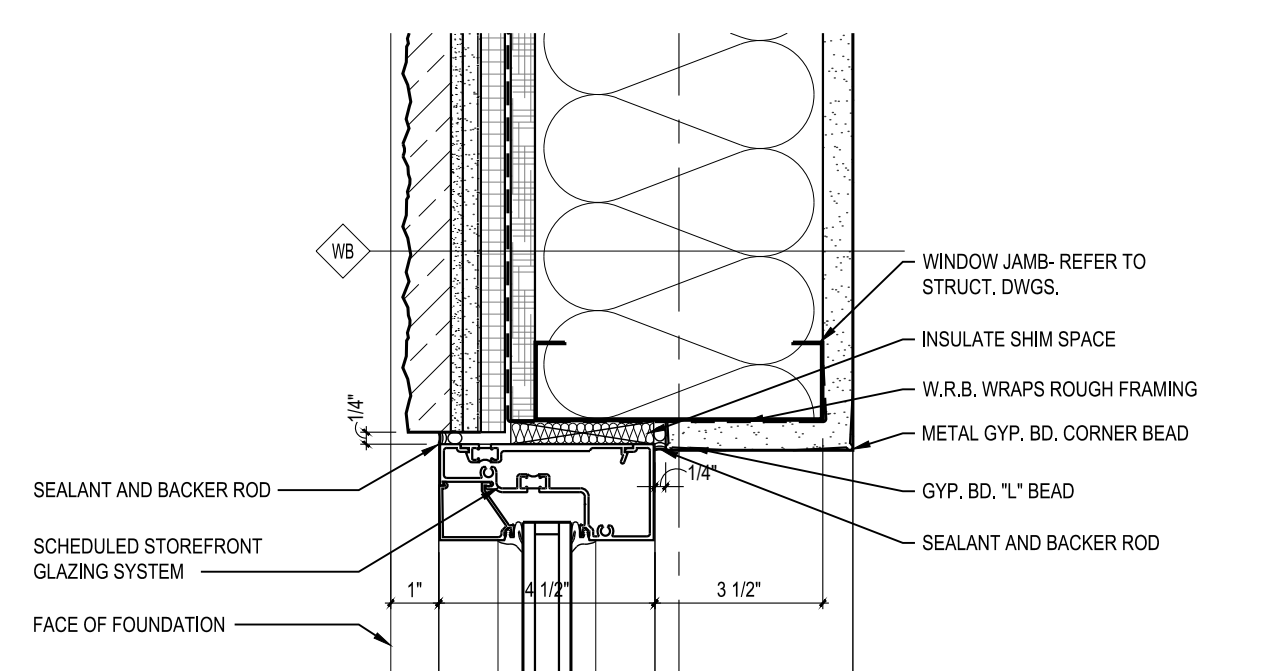
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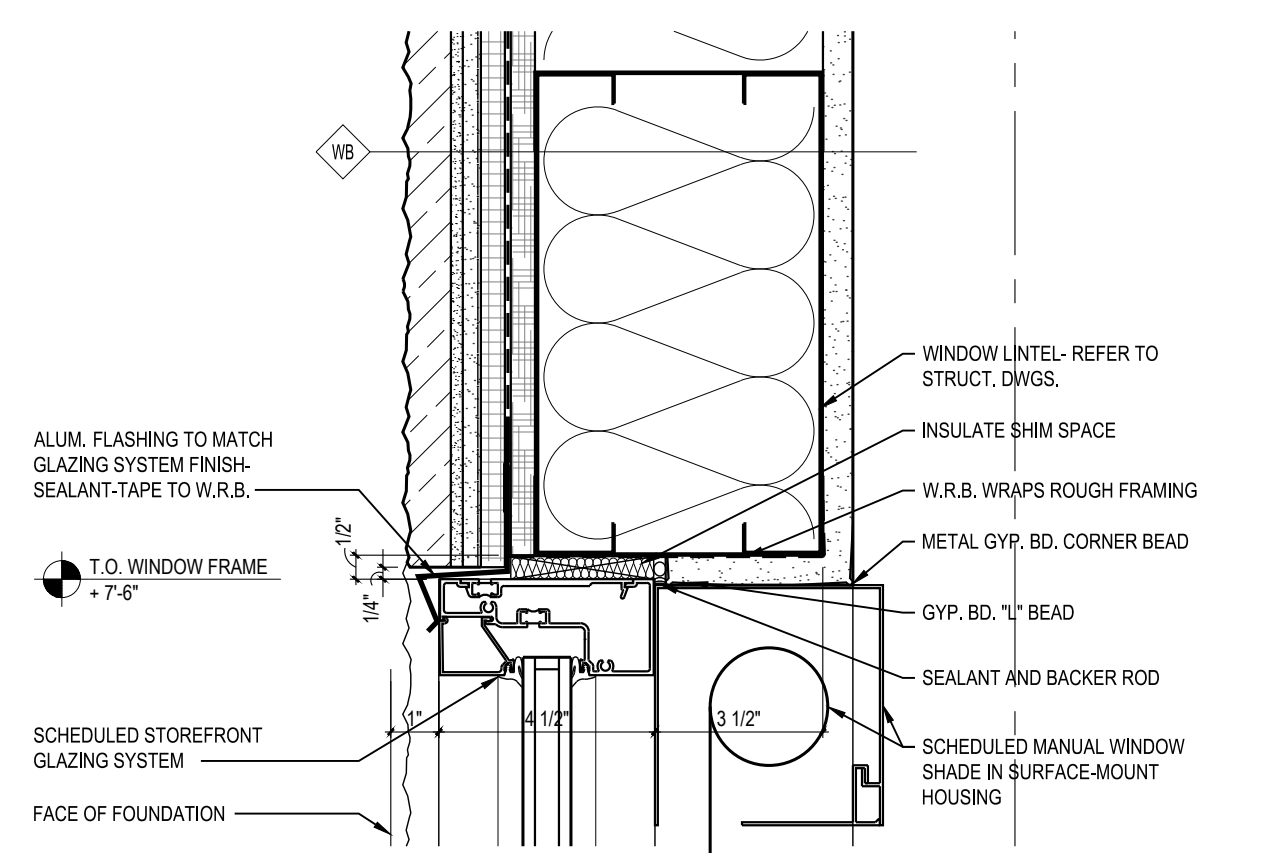
**A4.2**



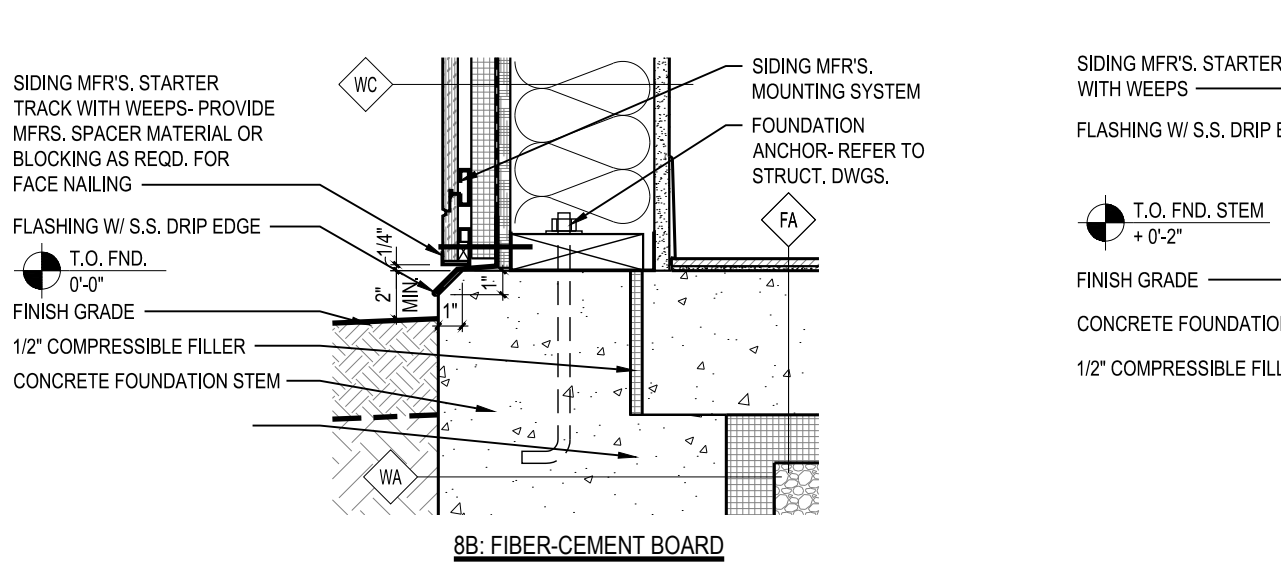
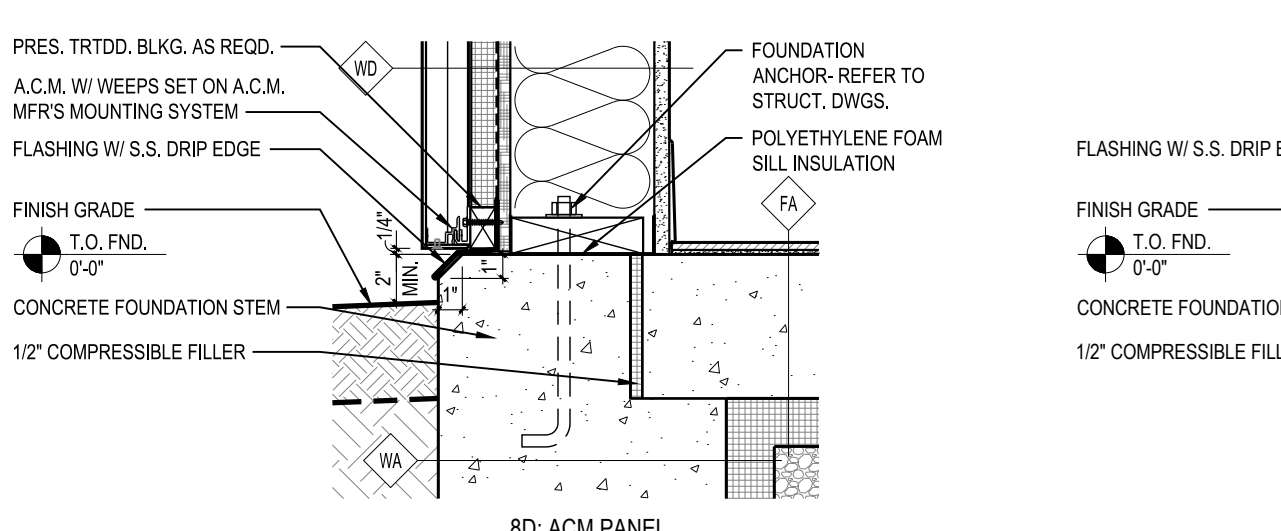
11 COPING AT SIMULATED STONE  
A5.1.1 3" = 1'-0"



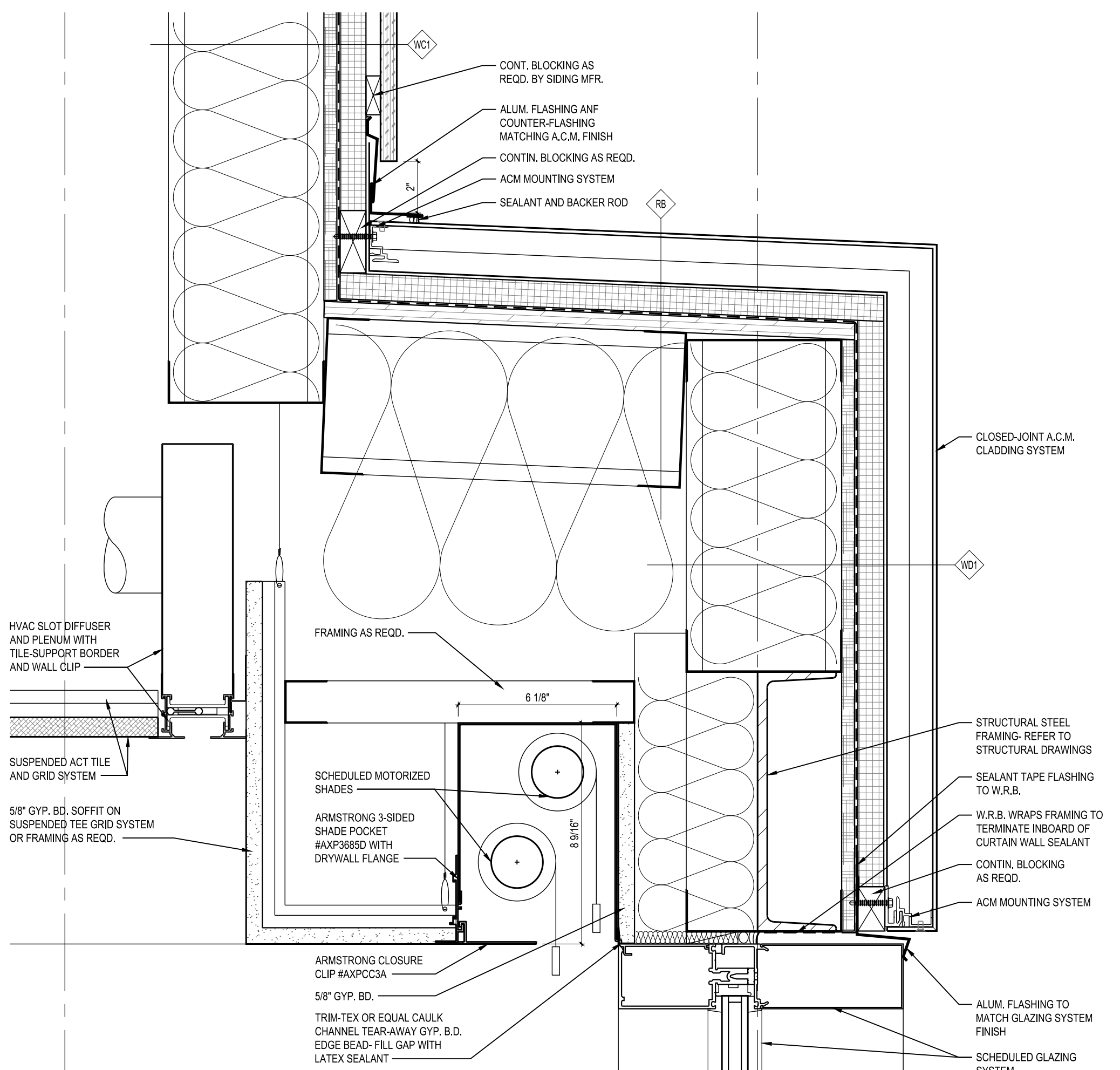
10 STOREFRONT JAMB AT SIMULATED STONE  
A5.1.1 3" = 1'-0"



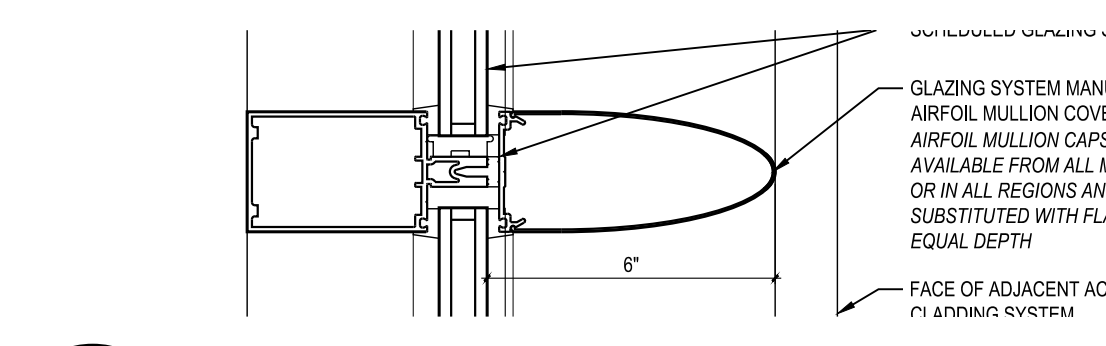
9 STOREFRONT HEAD AT SIMULATED STONE  
A5.1.1 3" = 1'-0"



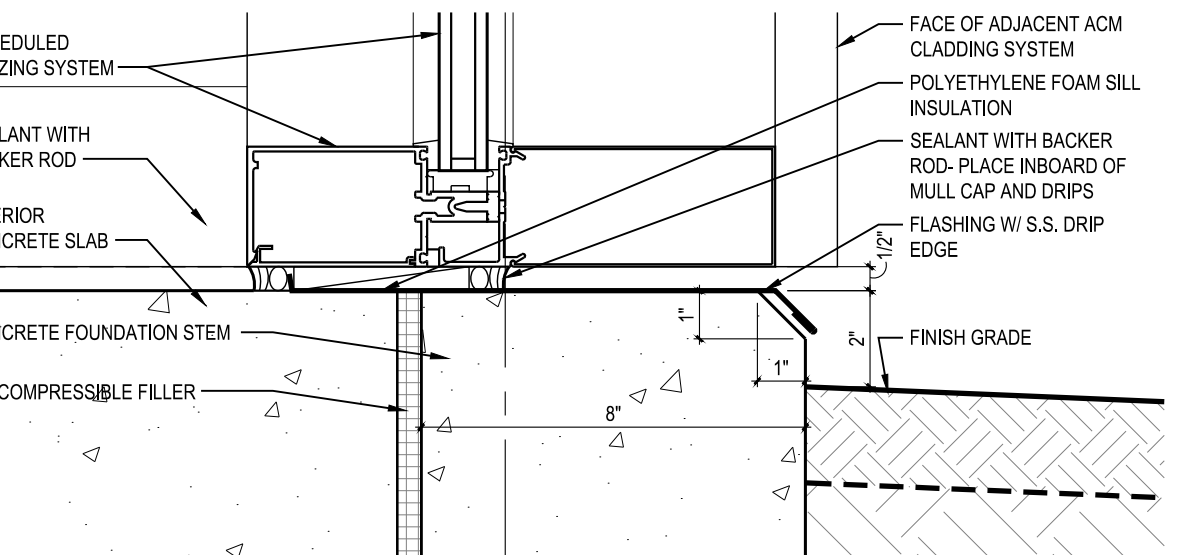
8 TYPICAL TOPS OF FOUNDATION  
A5.1.1 1 1/2" = 1'-0"



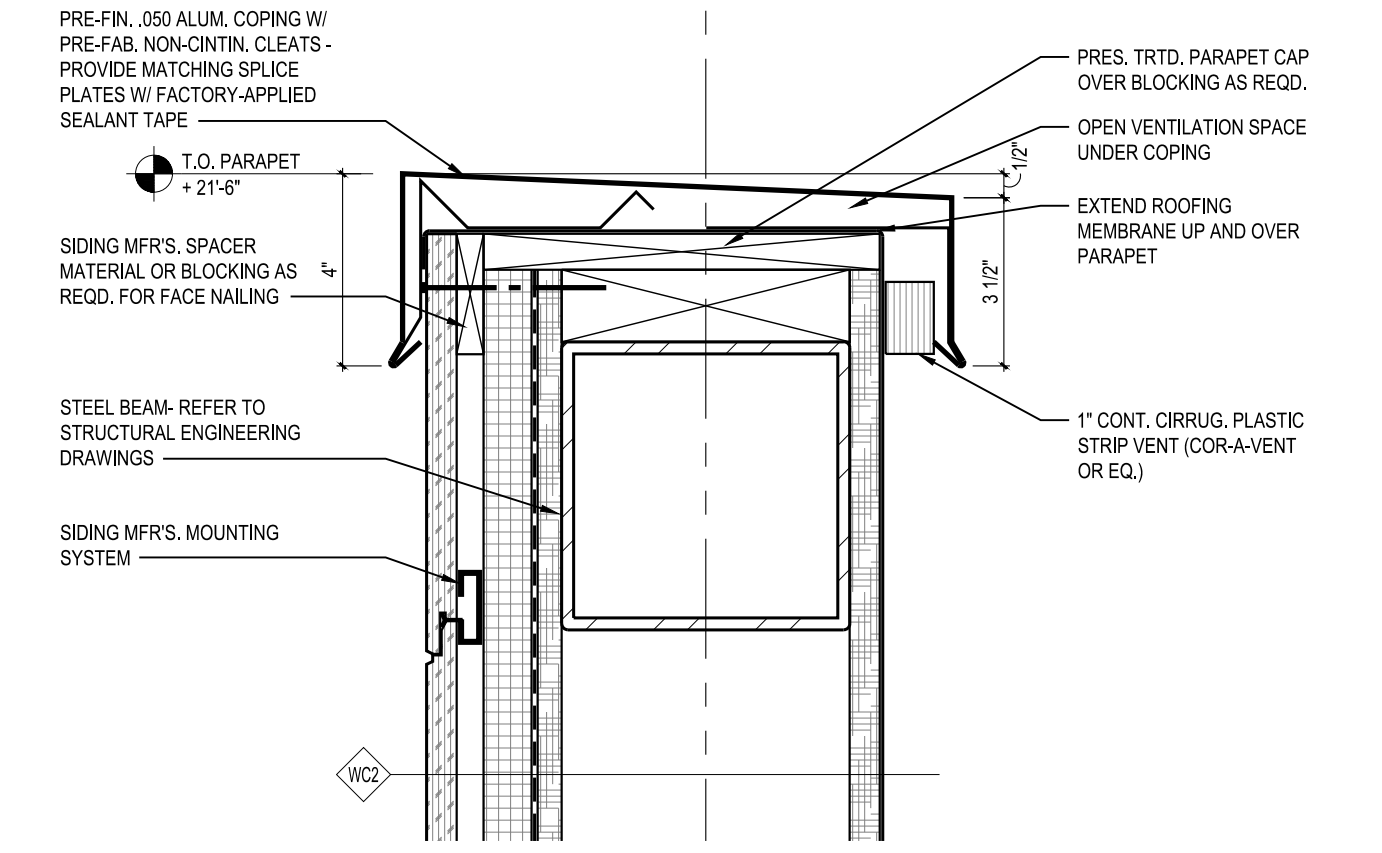
7 PROJECTING BAY ROOF / CURTAIN WALL HEAD  
A5.1.1 3" = 1'-0"



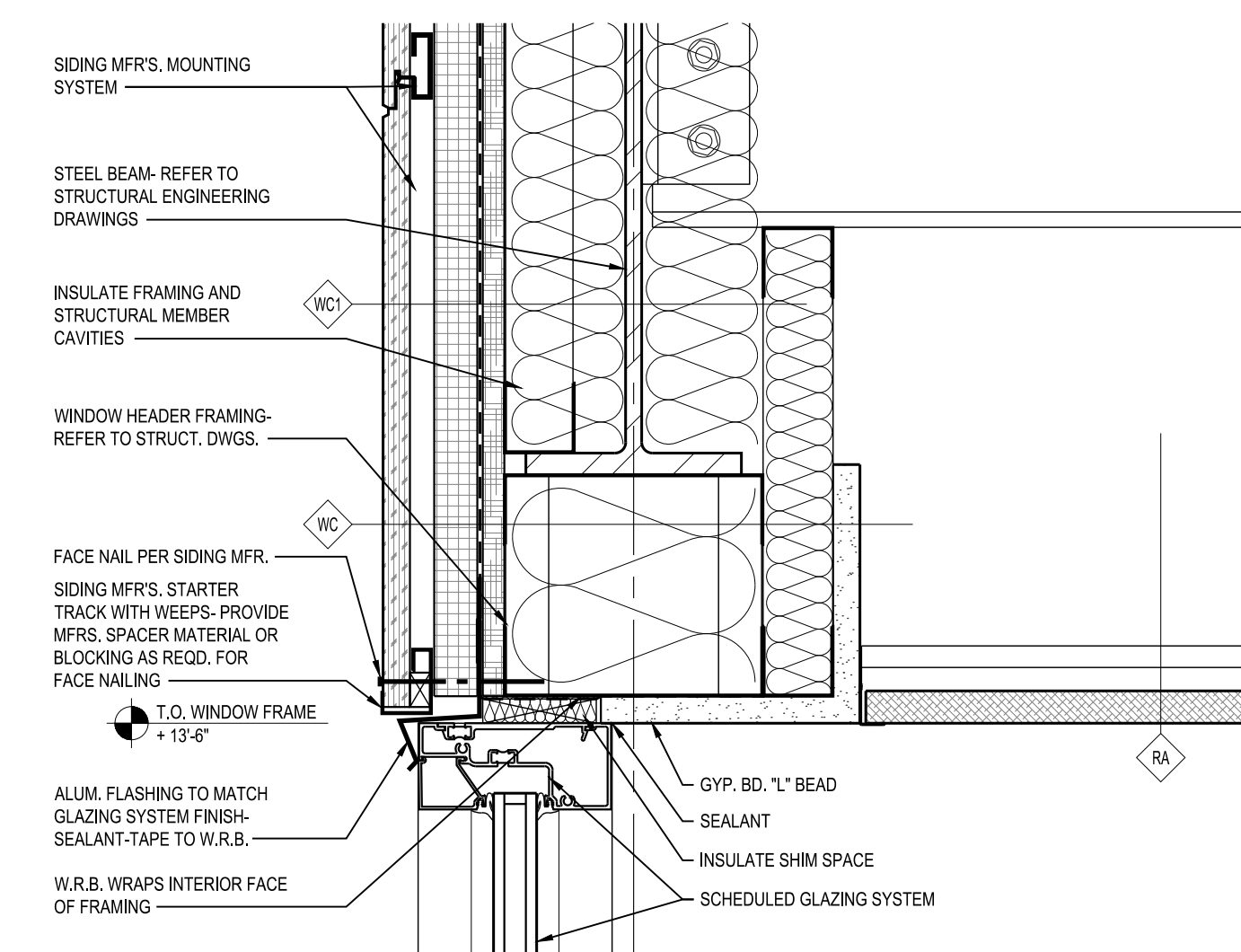
6 INTERMEDIATE MULLION  
A5.1.1 3" = 1'-0"



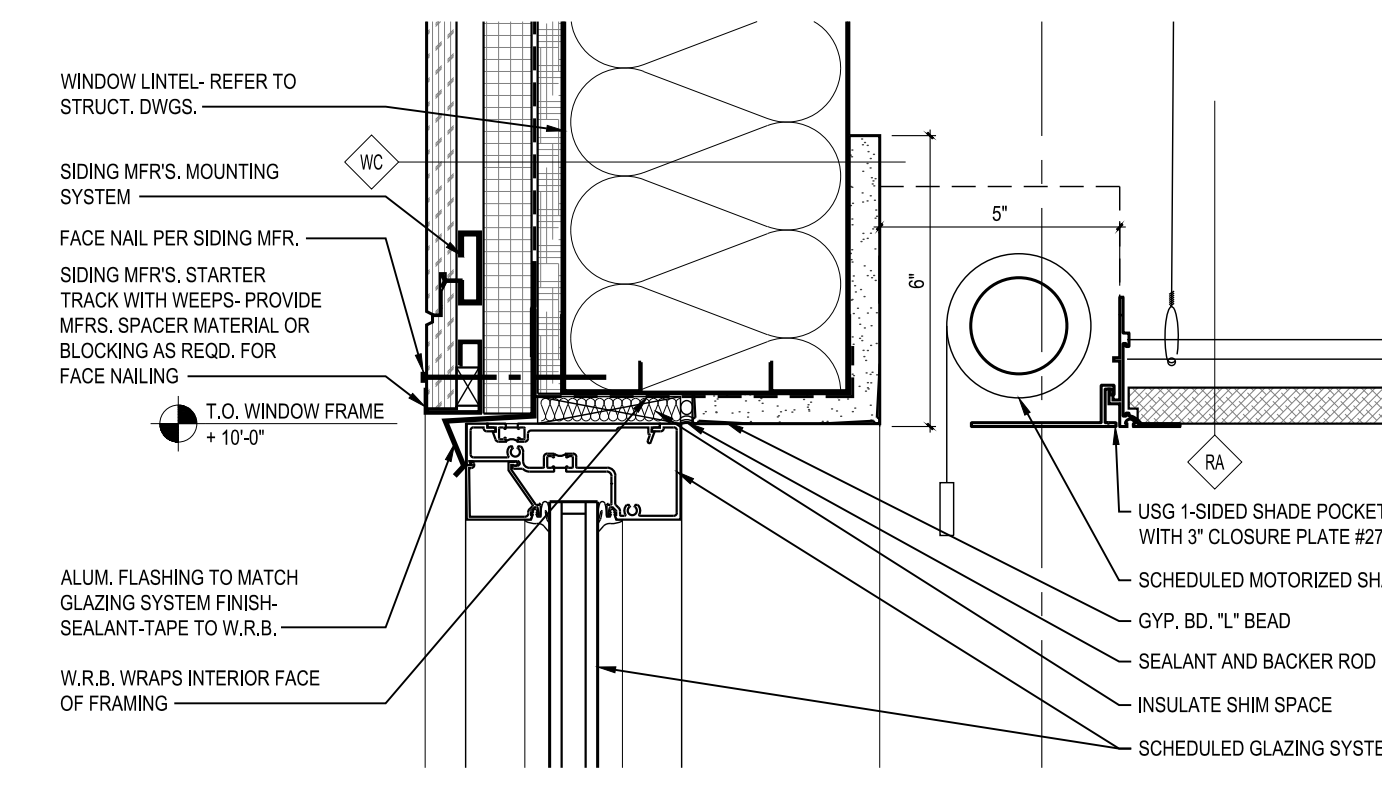
5 TOP OF FOUNDATION / PROJECTING CURTAIN WALL SILL  
A5.1.1 3" = 1'-0"



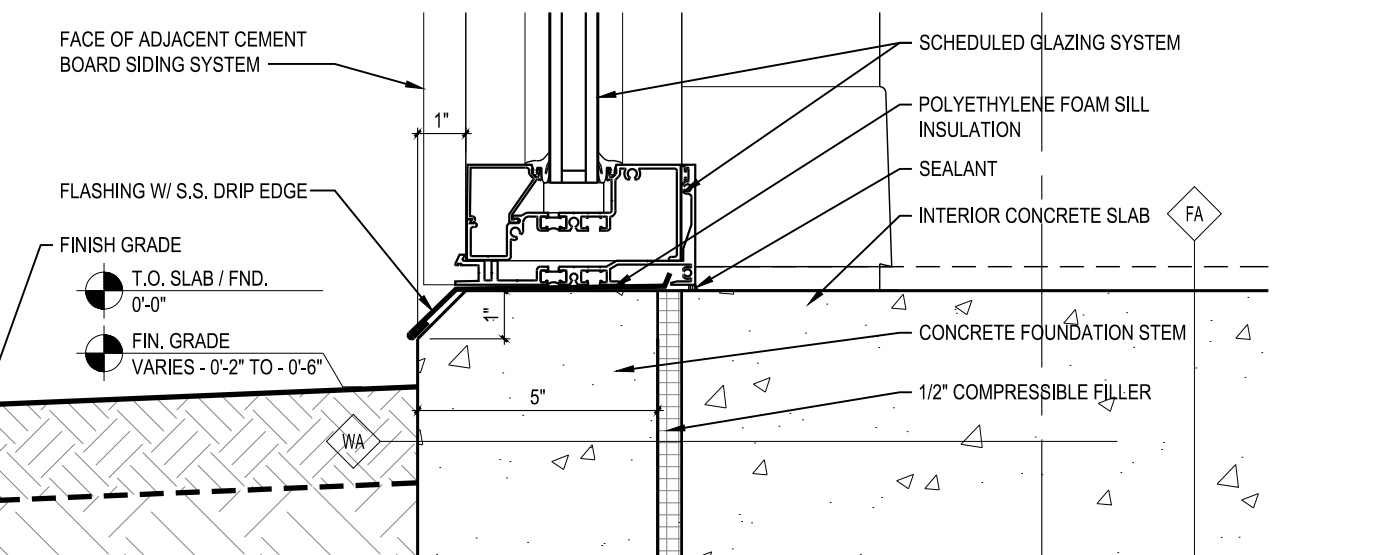
4 COPING AT CEMENT BOARD  
A5.1.1 3" = 1'-0"



3 ENTRANCE HEAD / CEILING  
A5.1.1 3" = 1'-0"



2 STOREFRONT HEAD / CEILING AT CEMENT BOARD  
A5.1.1 3" = 1'-0"



1 TOP OF FOUNDATION / STOREFRONT SILL  
A5.1.1 3" = 1'-0"

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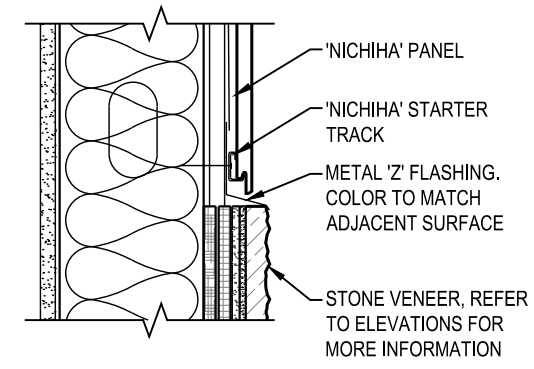
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PROTOTYPE VERSION 20.4

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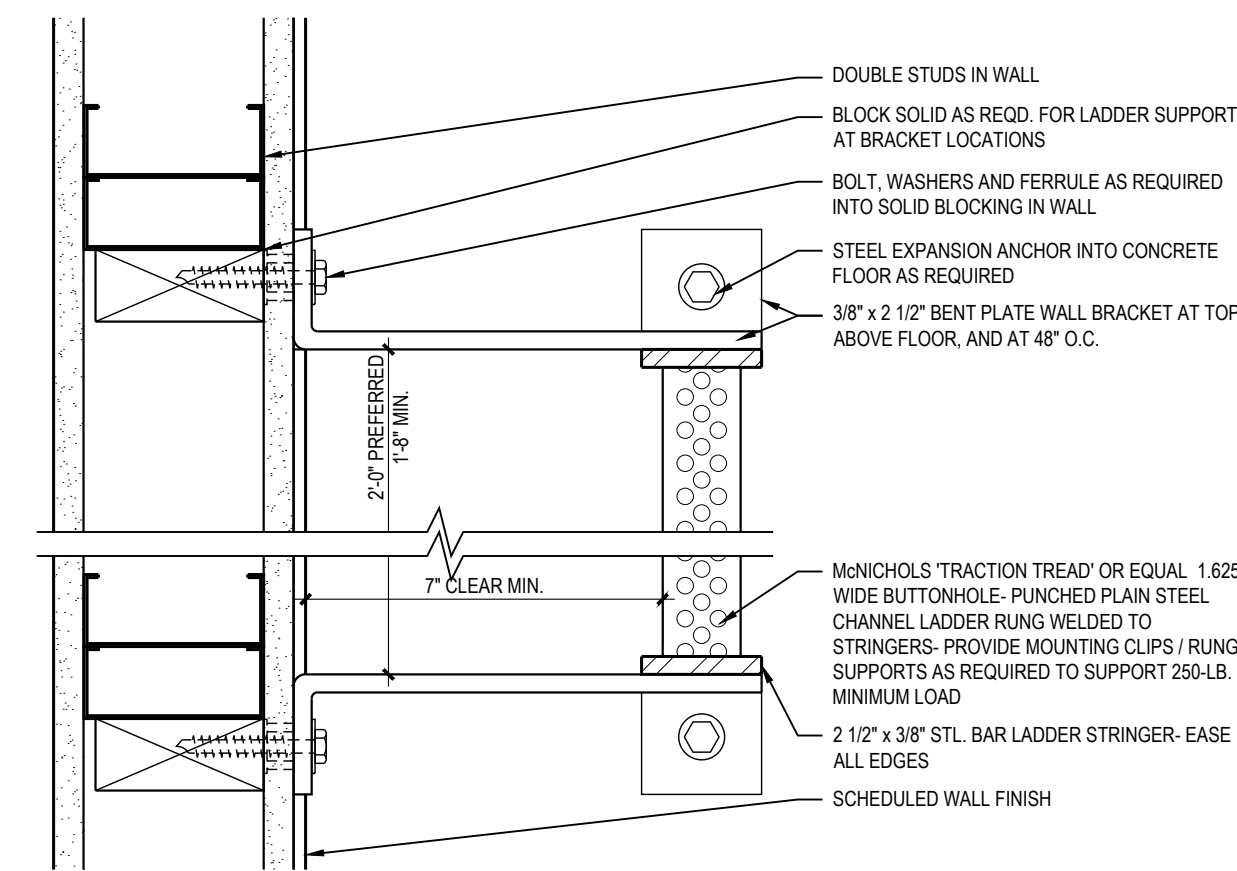
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**A5.1.1**

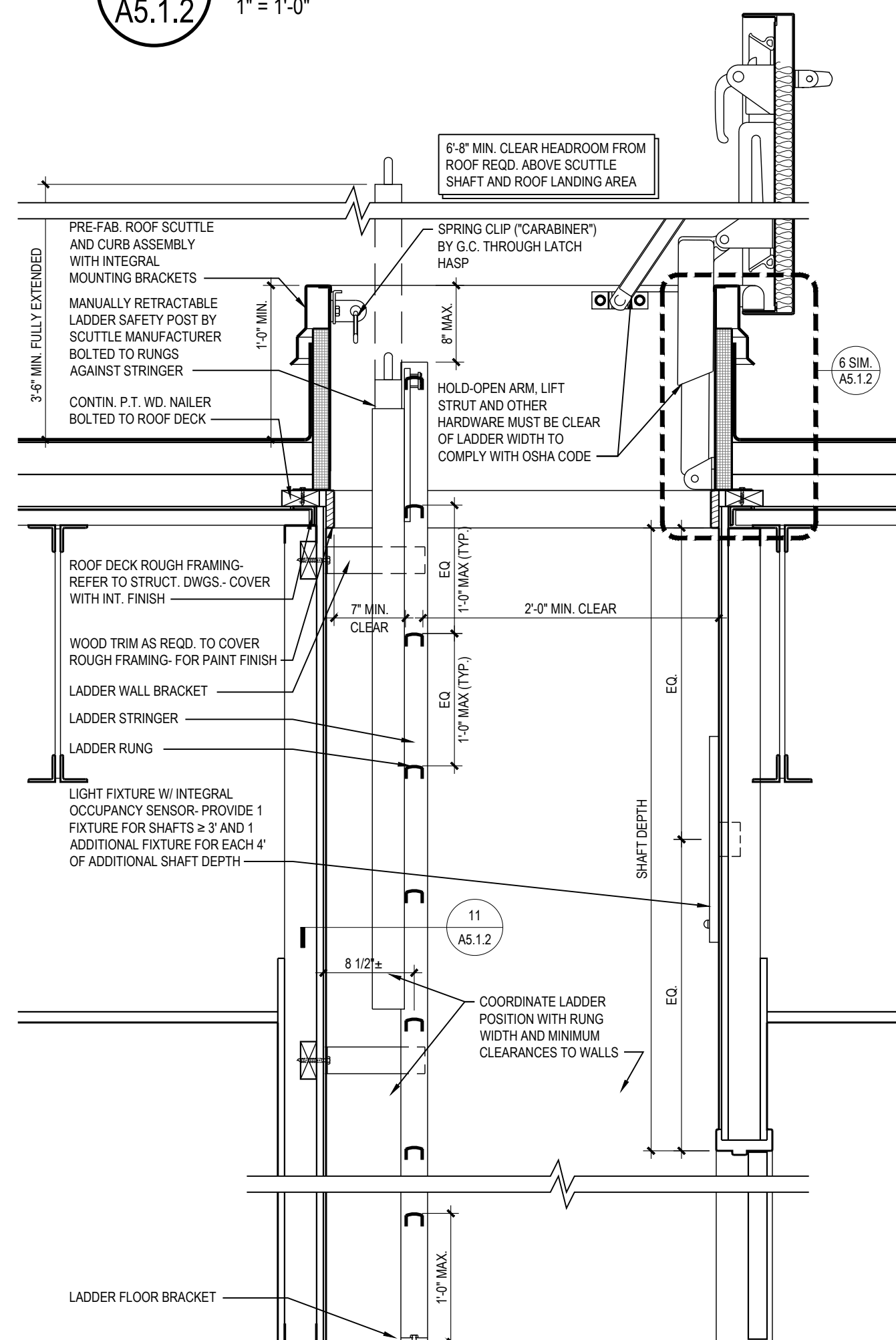




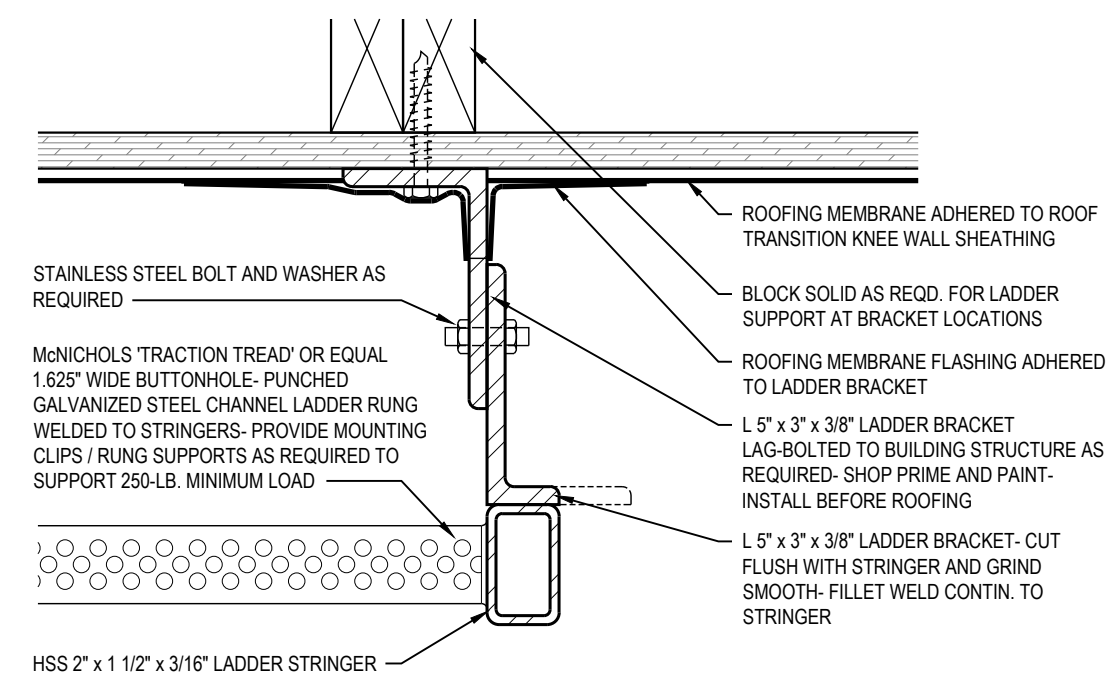
12 SILL DETAIL @ STONE  
A5.1.2 1 1/2" = 1'-0"



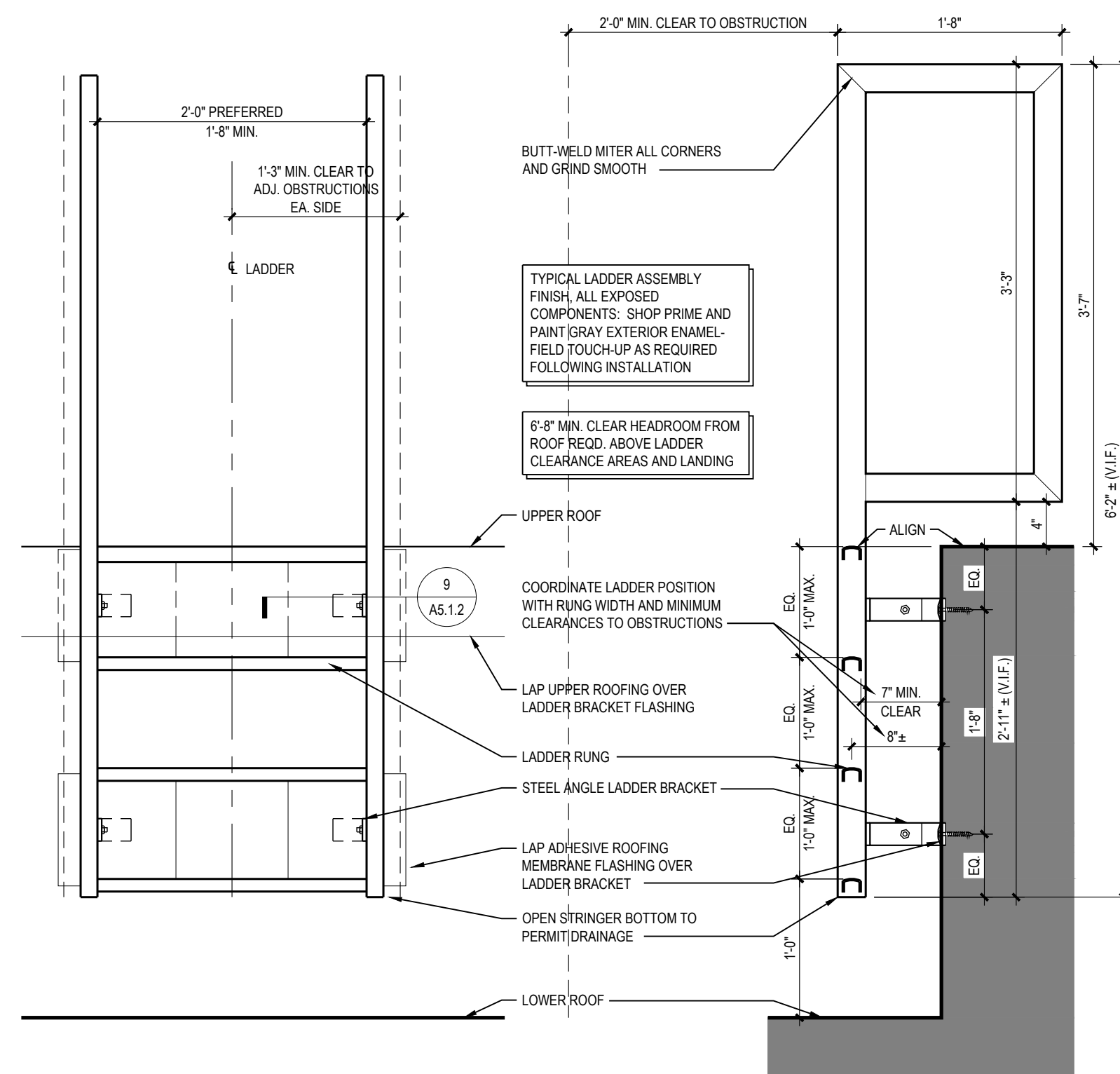
11 ROOF SCUTTLE LADDER BRACKET SECTION  
A5.1.2 1" = 1'-0"



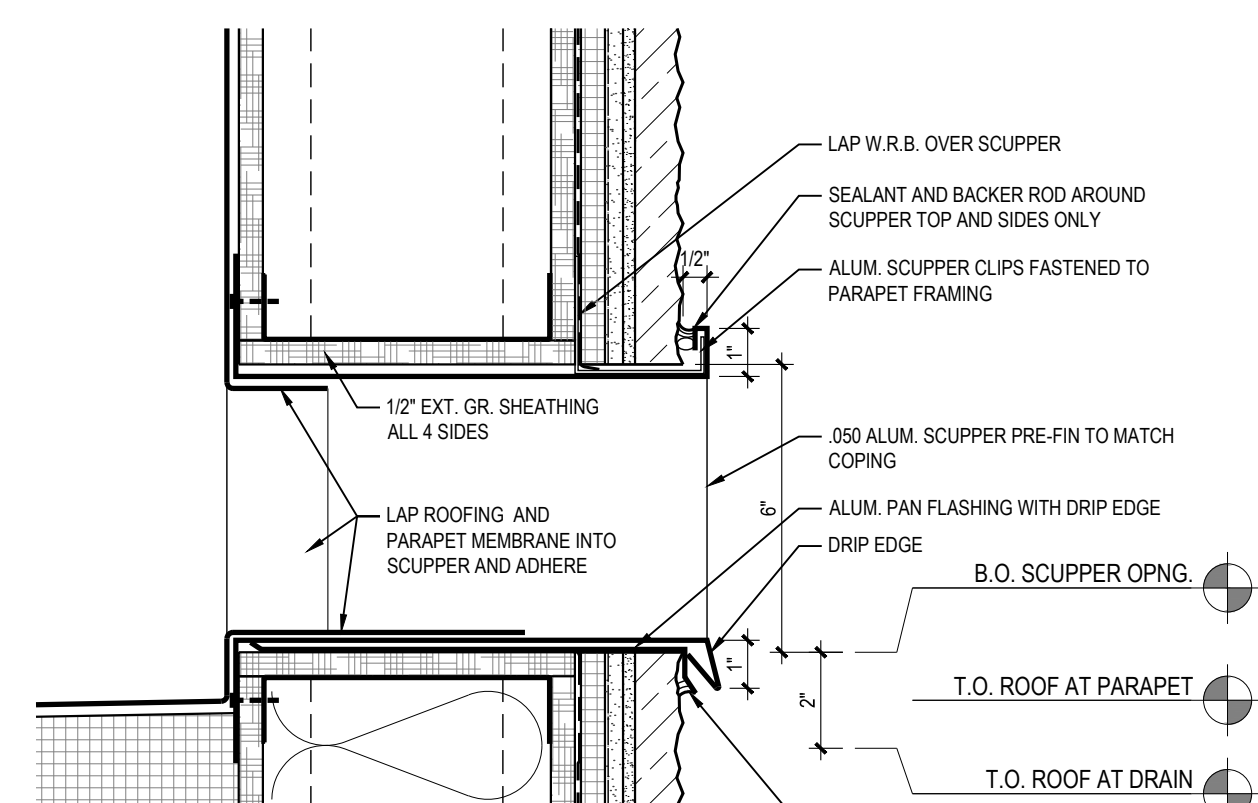
10 ROOF SCUTTLE AND LADDER SECTION  
A5.1.2 1" = 1'-0"



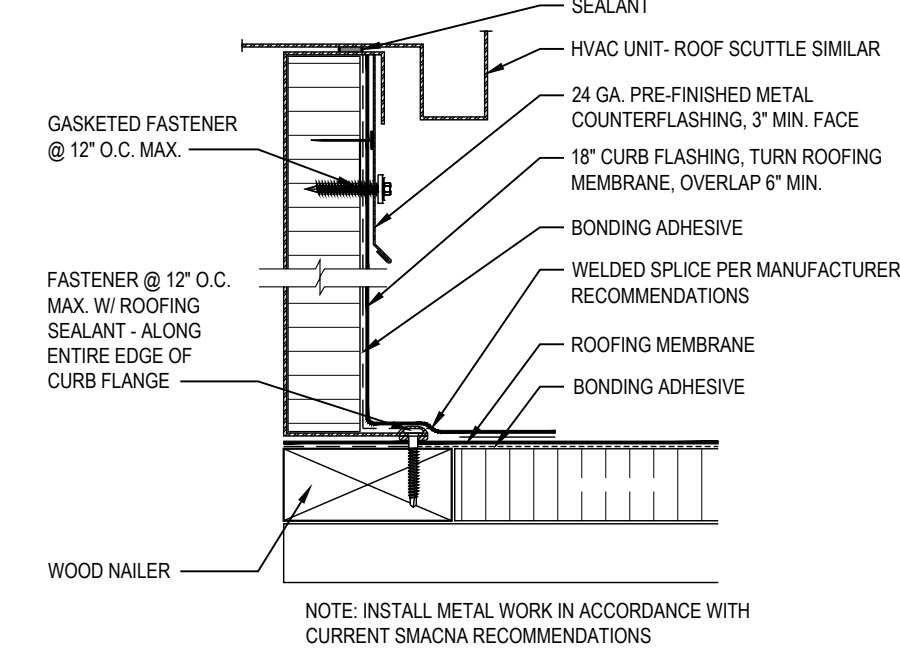
9 ROOF TRANSITION LADDER SECTION  
A5.1.2 3" = 1'-0"



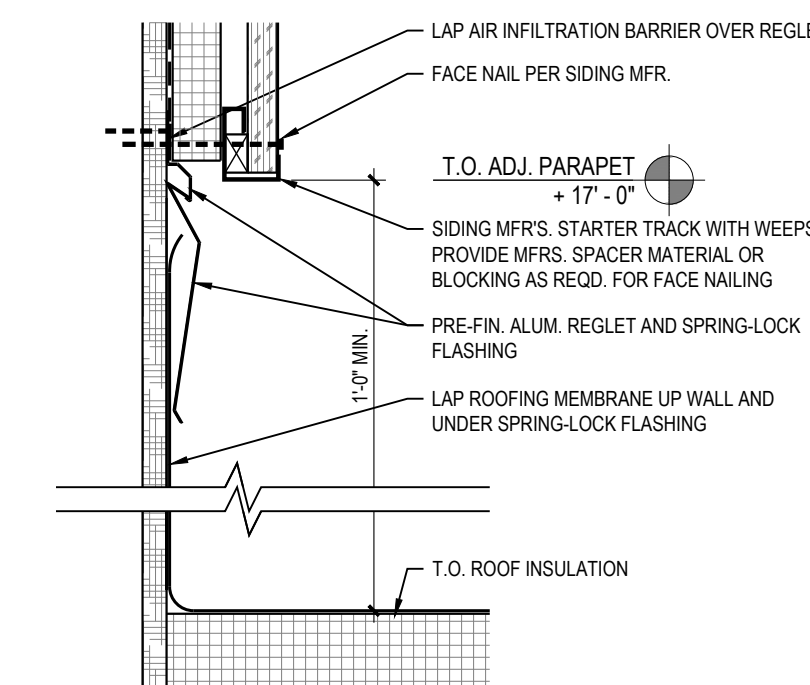
8 ROOF TRANSITION LADDER  
A5.1.2 1" = 1'-0"



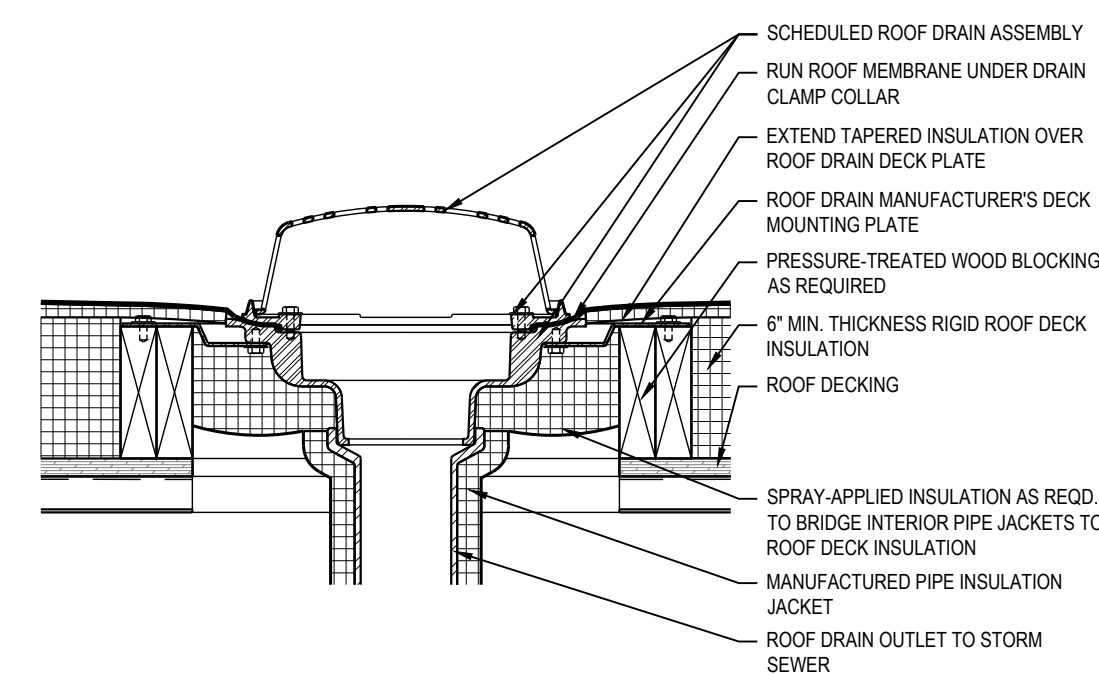
7 OVERFLOW SCUPPER  
A5.1.2 3" = 1'-0"



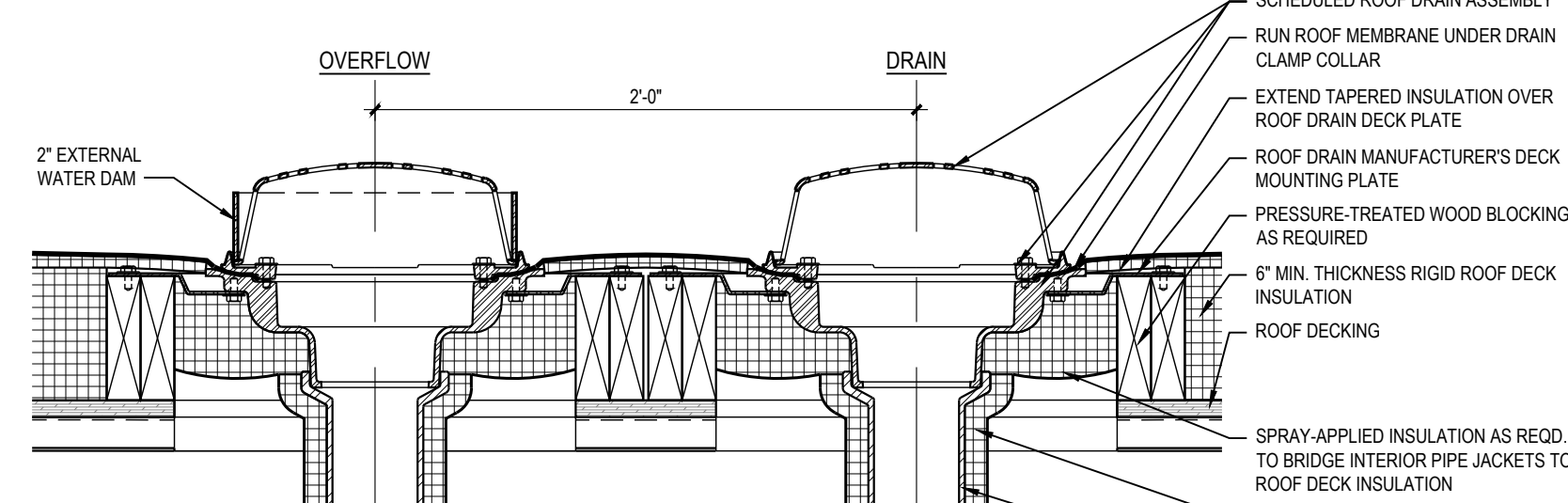
6 ROOF EQUIPMENT CURB  
A5.1.2 3" = 1'-0"



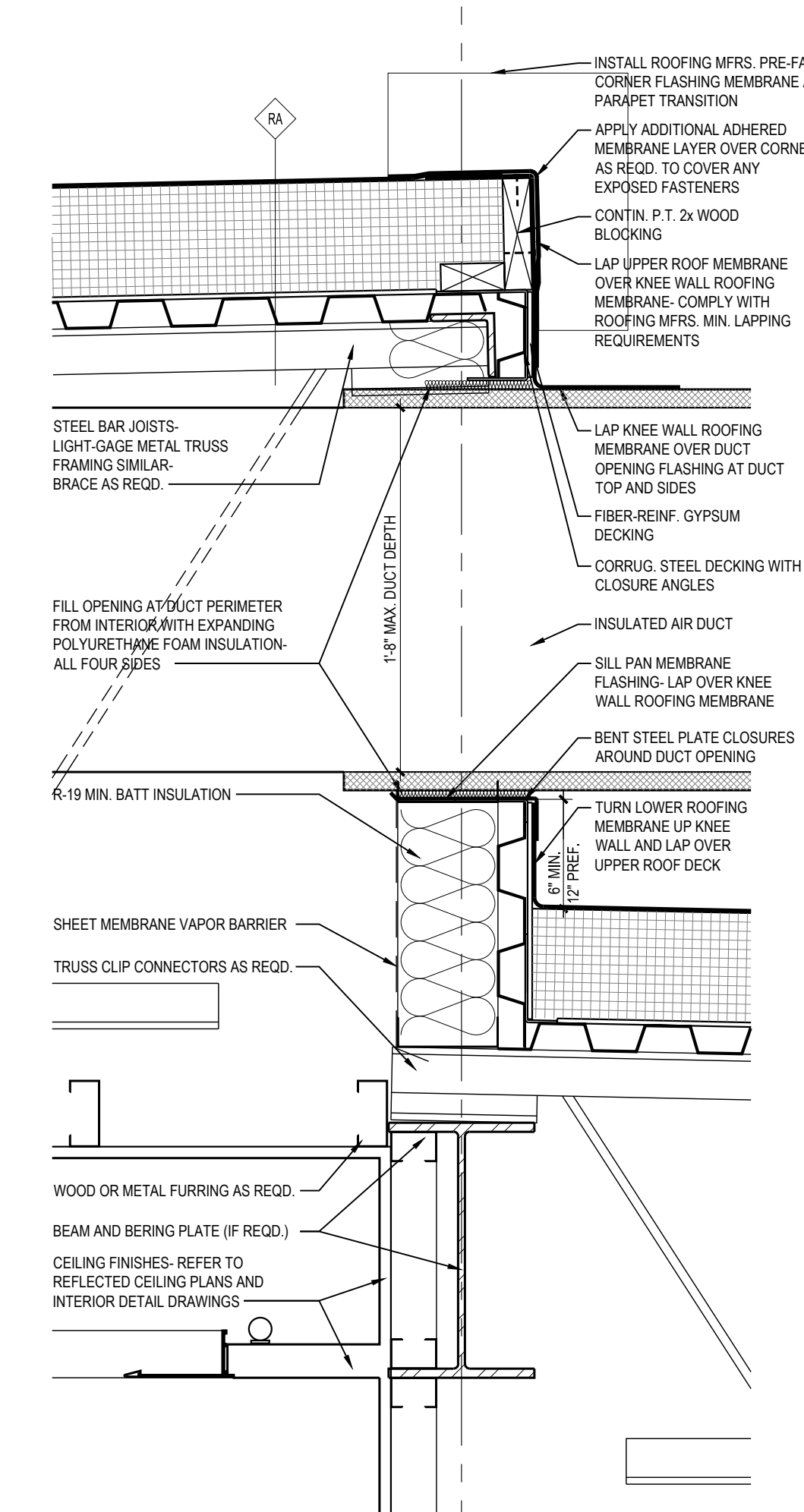
5 ROOF / WALL FLASHING  
A5.1.2 3" = 1'-0"



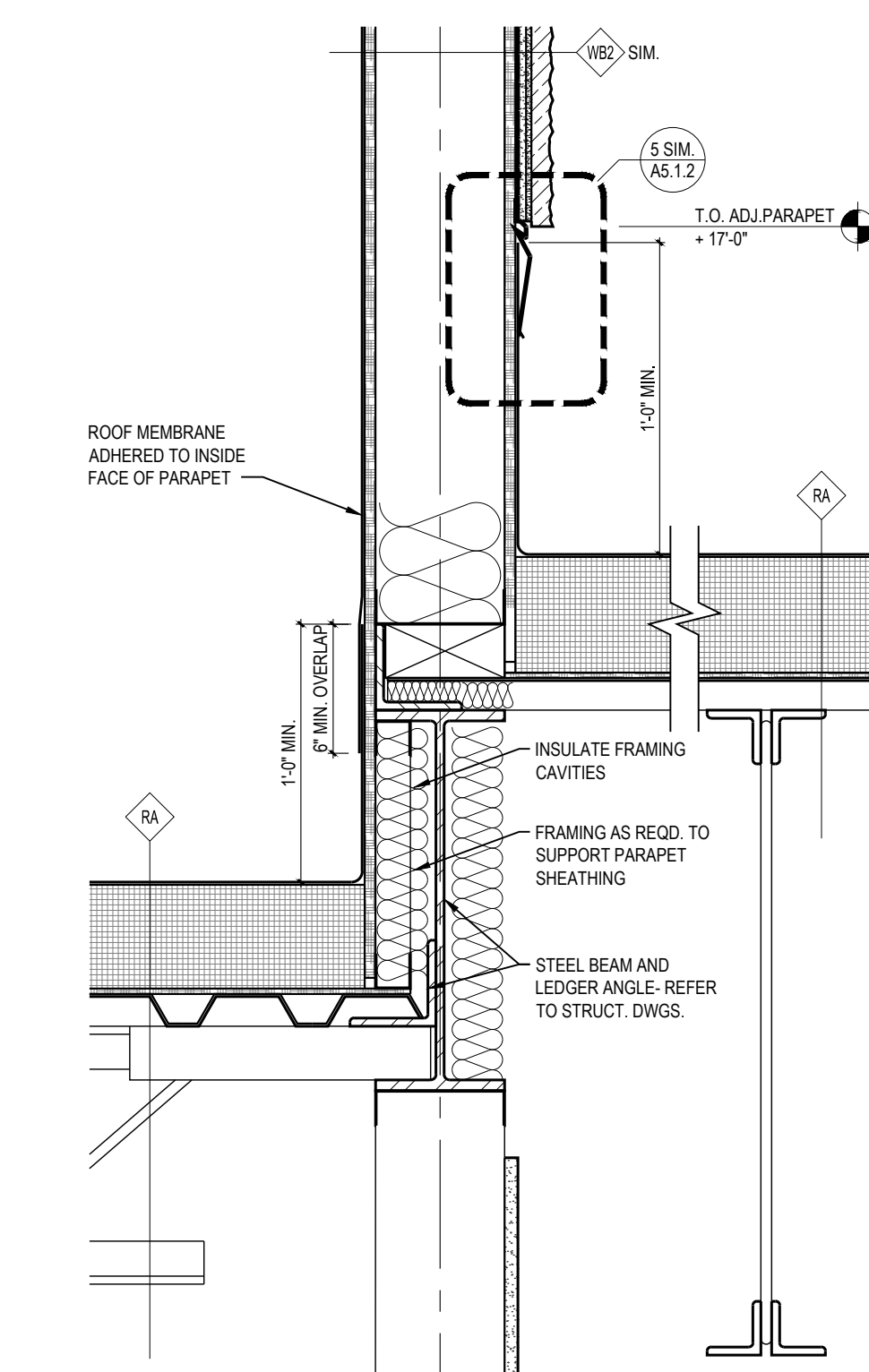
4 TYP. ROOF DRAIN  
A5.1.2 1 1/2" = 1'-0"



3 TYP. ROOF DRAIN W/ OVERFLOW  
A5.1.2 1 1/2" = 1'-0"



2 KNEE WALL DUCT PENETRATION  
A5.1.2 1 1/2" = 1'-0"



1 INTERIOR PARAPET  
A5.1.2 1 1/2" = 1'-0"

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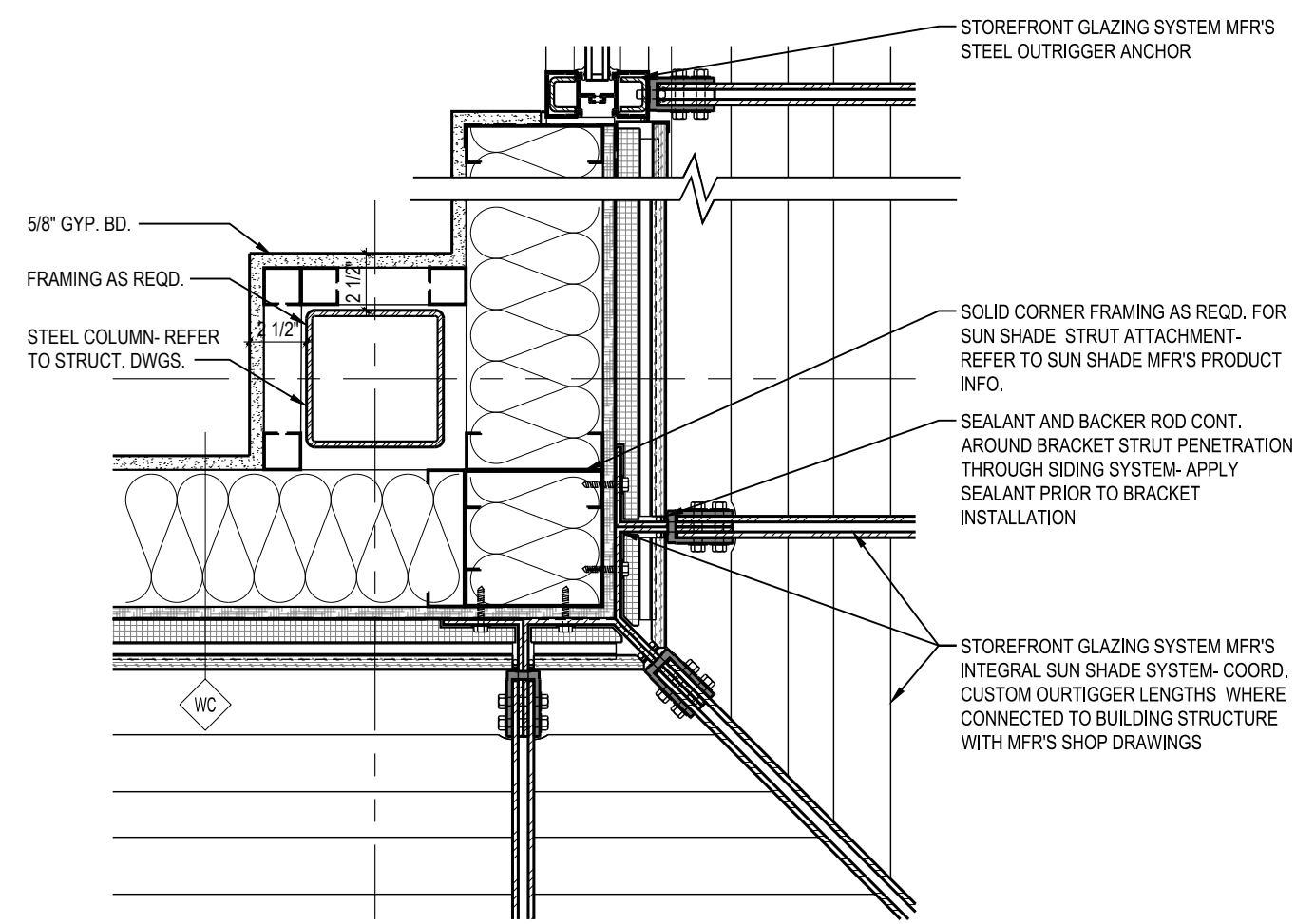
**CHASE**

PRYOR & LOWENSTEIN  
PROTOTYPE VERSION 20.4

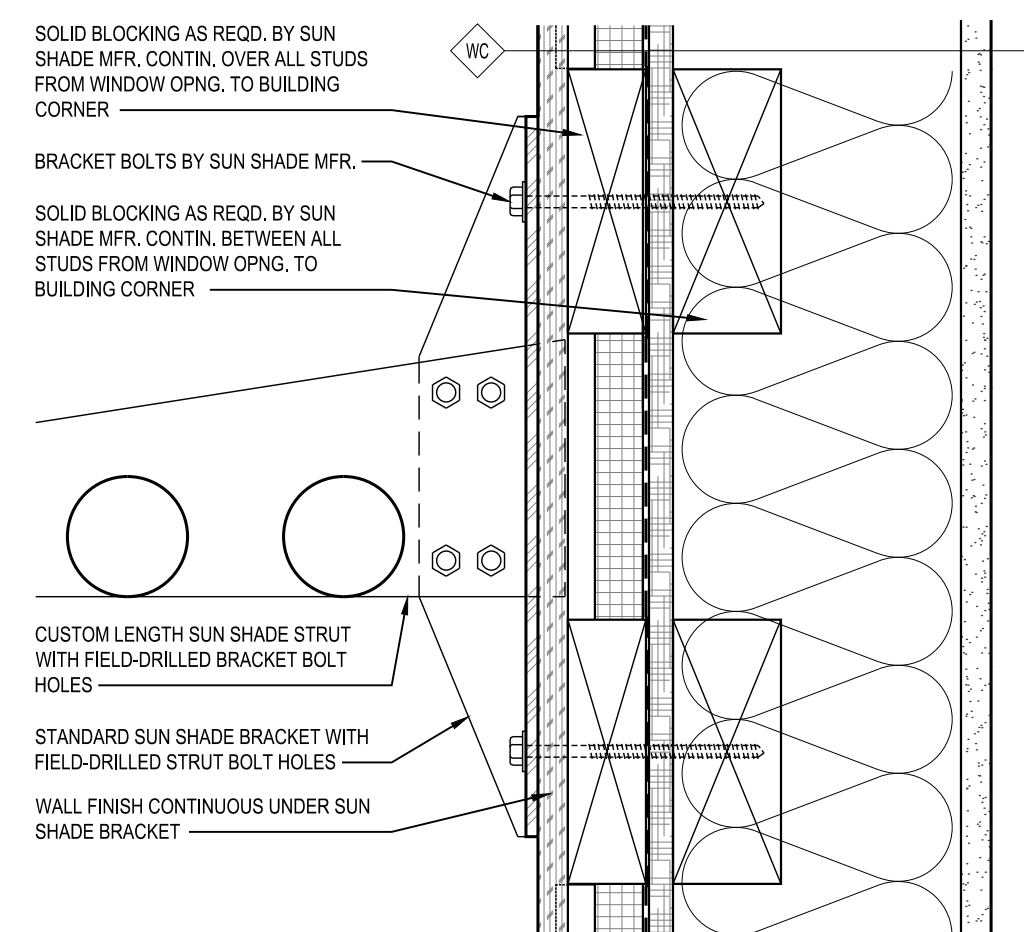
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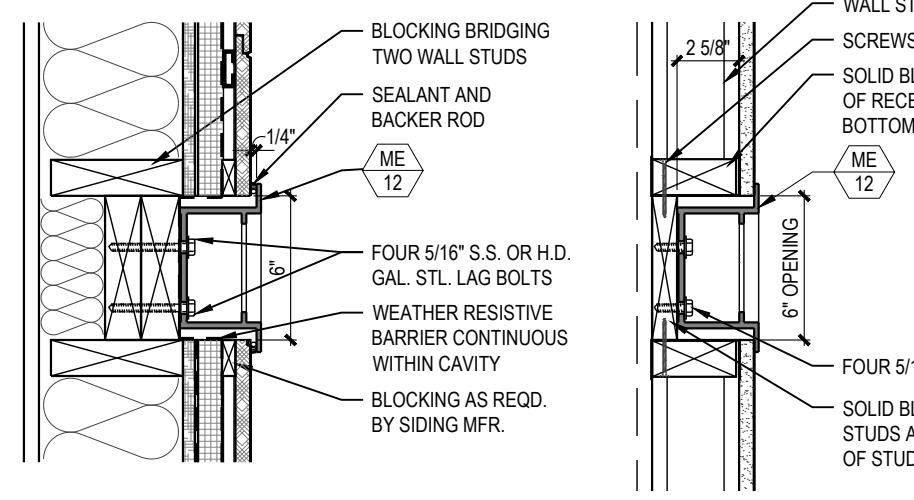
**A5.1.2**



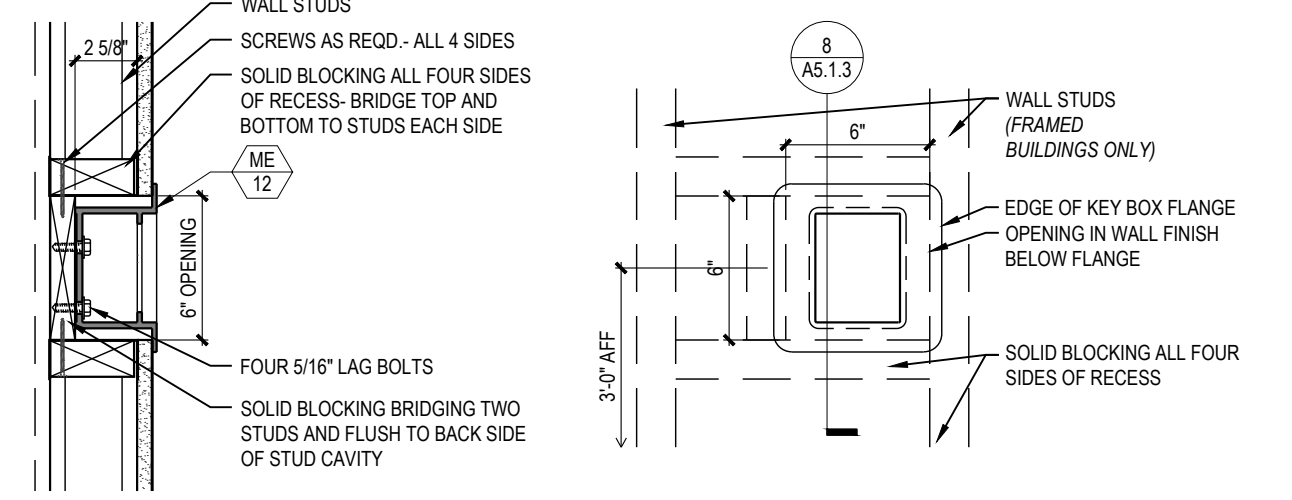
**12 SUN SHADE CORNER BRACKET**  
A5.1.3 1 1/2" = 1'-0"



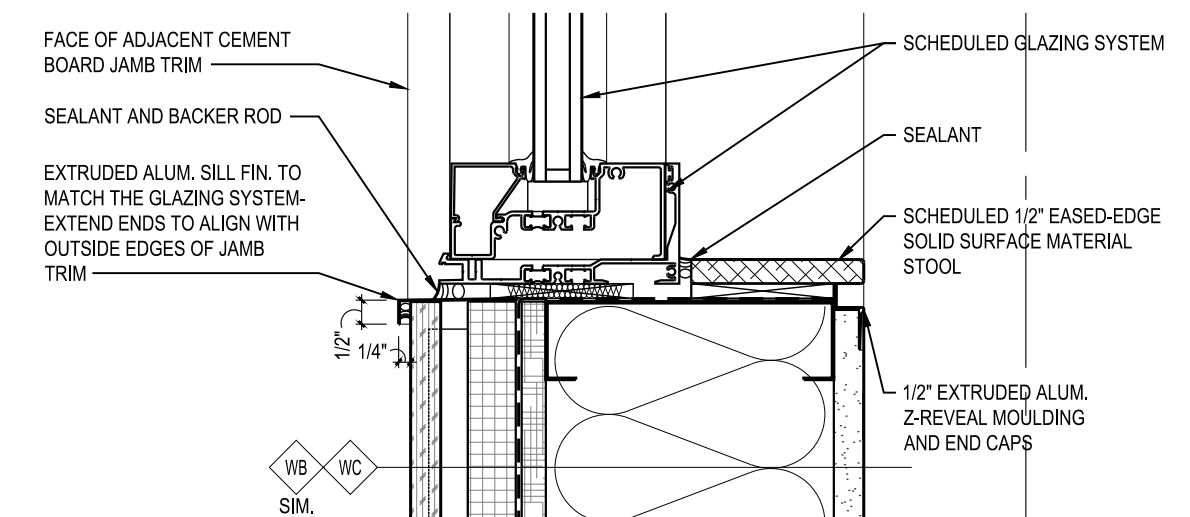
**11 SUN SHADE WALL BRACKET**  
A5.1.3 3" = 1'-0"



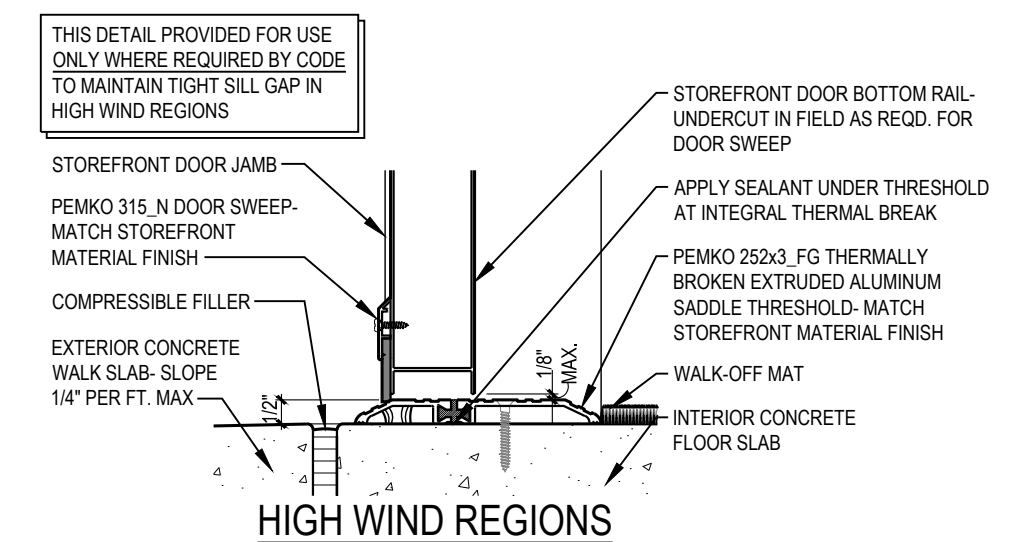
**8 RECESSED KEY BOX SECTION**  
A5.1.3 1 1/2" = 1'-0"



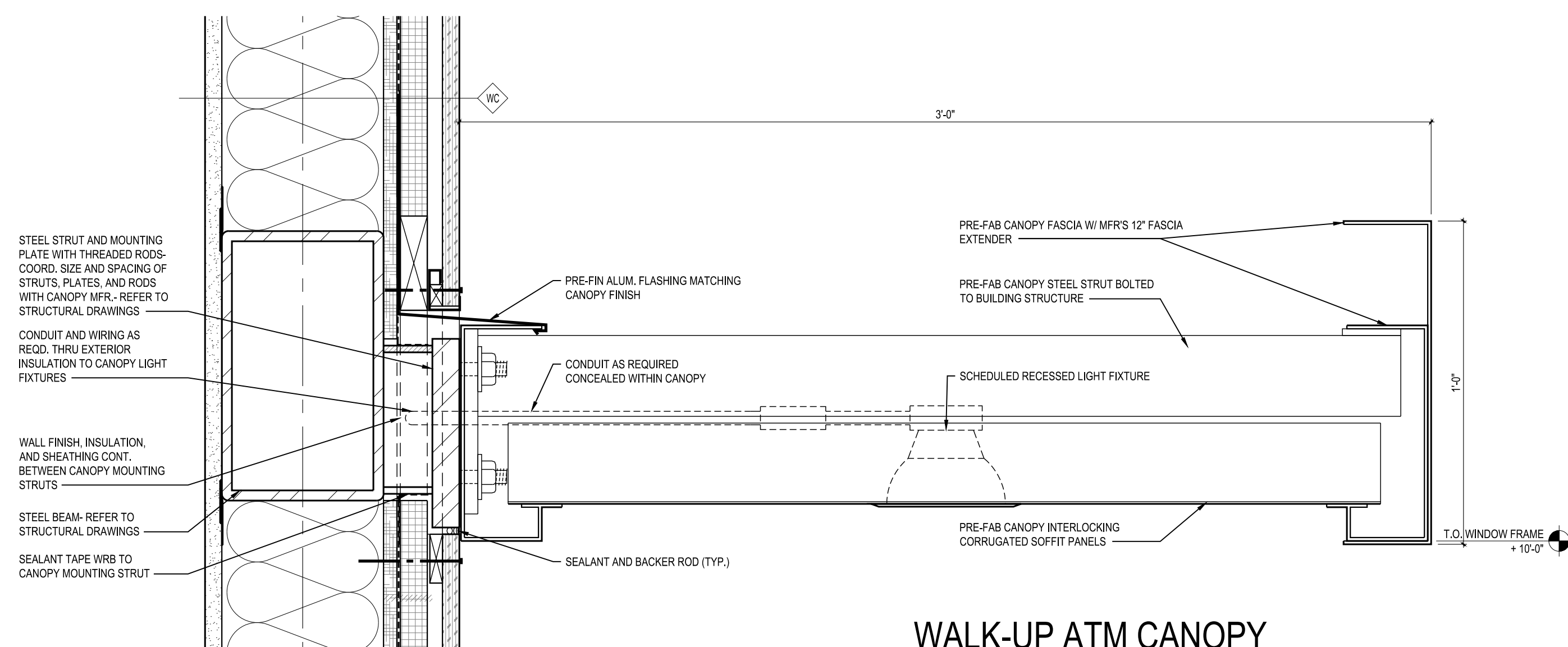
**7 RECESSED KEY BOX ELEVATION**  
A5.1.3 1 1/2" = 1'-0"



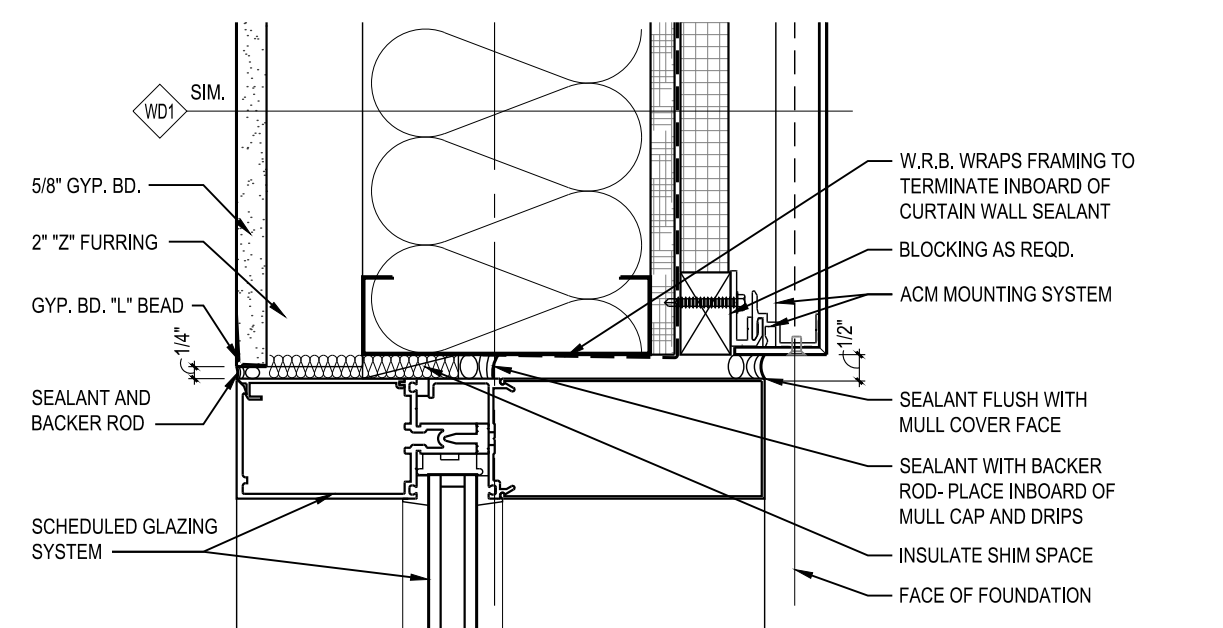
**12 WINDOW STOOL (NON-STANDARD)**  
A5.1.3 3" = 1'-0"



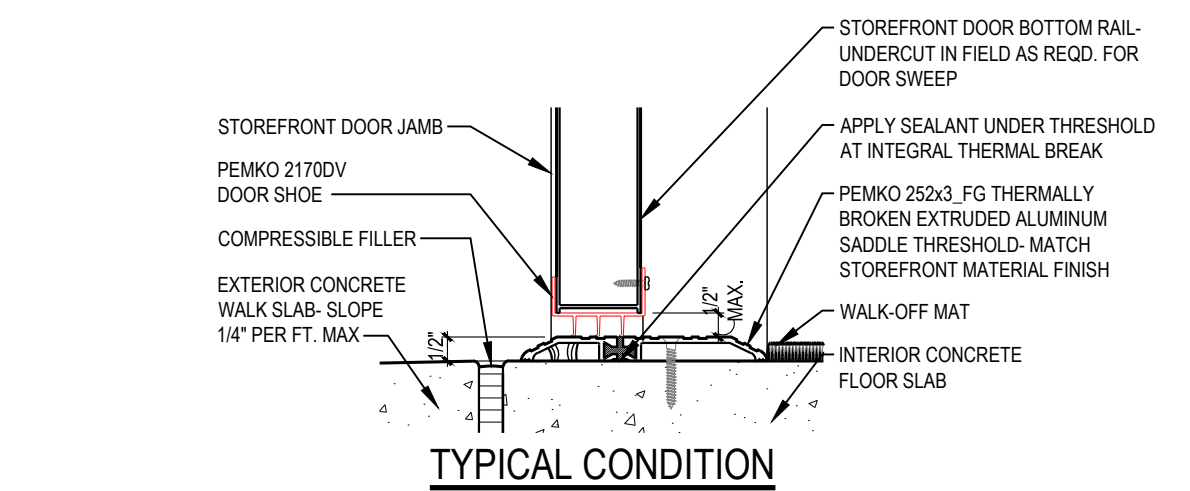
**3 ENTRANCE THRESHOLD**  
A5.1.3 3" = 1'-0"



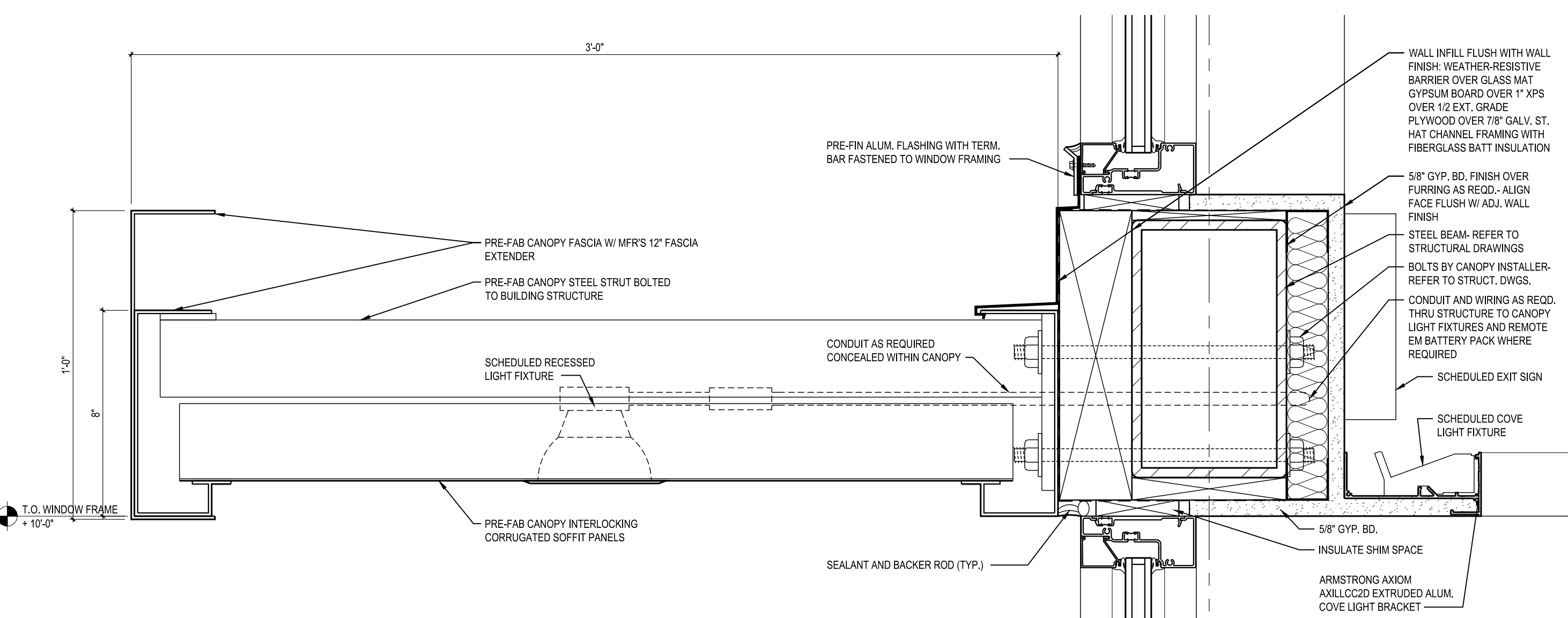
**10 WALK-UP ATM CANOPY DRIVE-UP CANOPY SIMILAR**  
A5.1.3 3" = 1'-0"



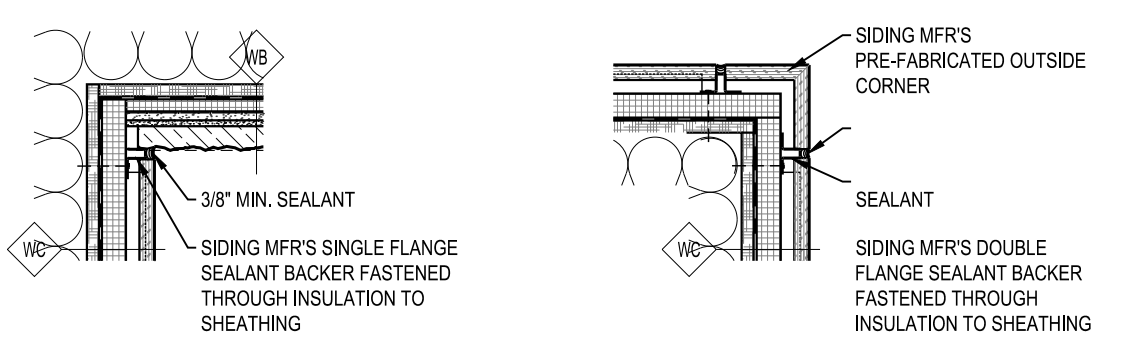
**6 ACM / GLAZING JAMB**  
A5.1.3 3" = 1'-0"



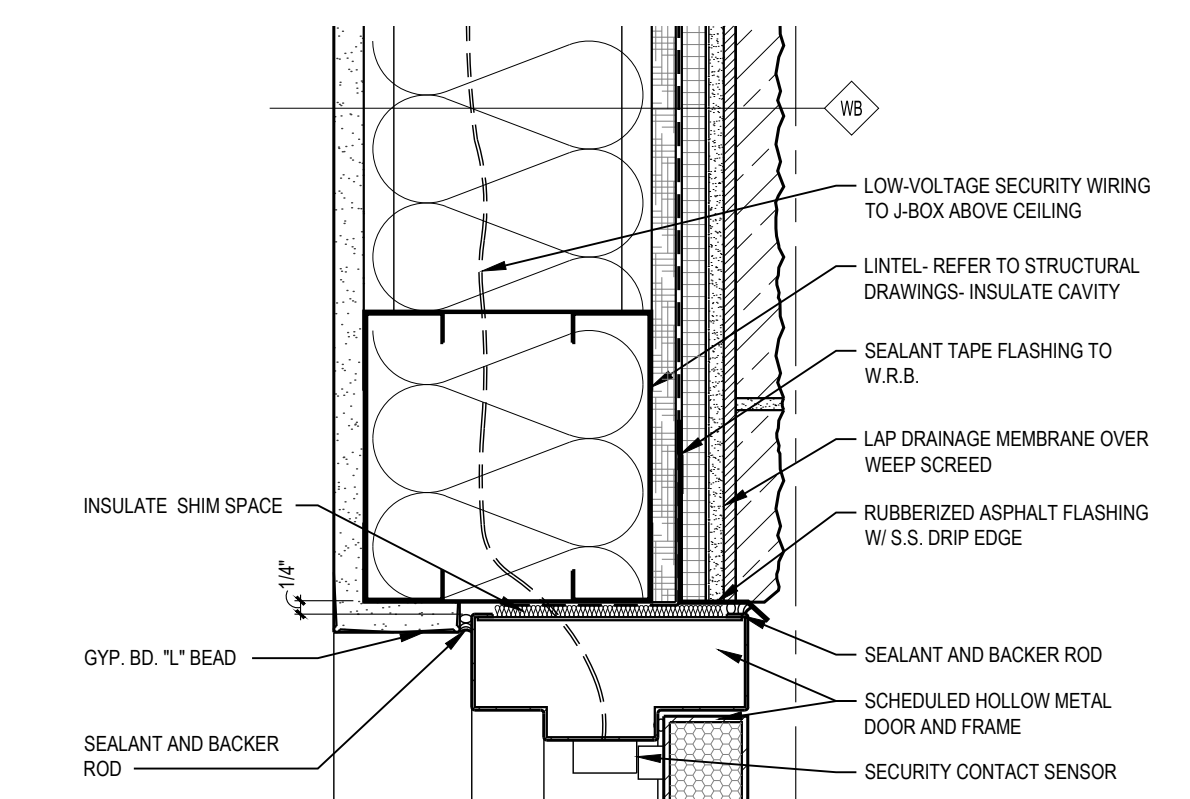
**3 ENTRANCE THRESHOLD**  
A5.1.3 3" = 1'-0"



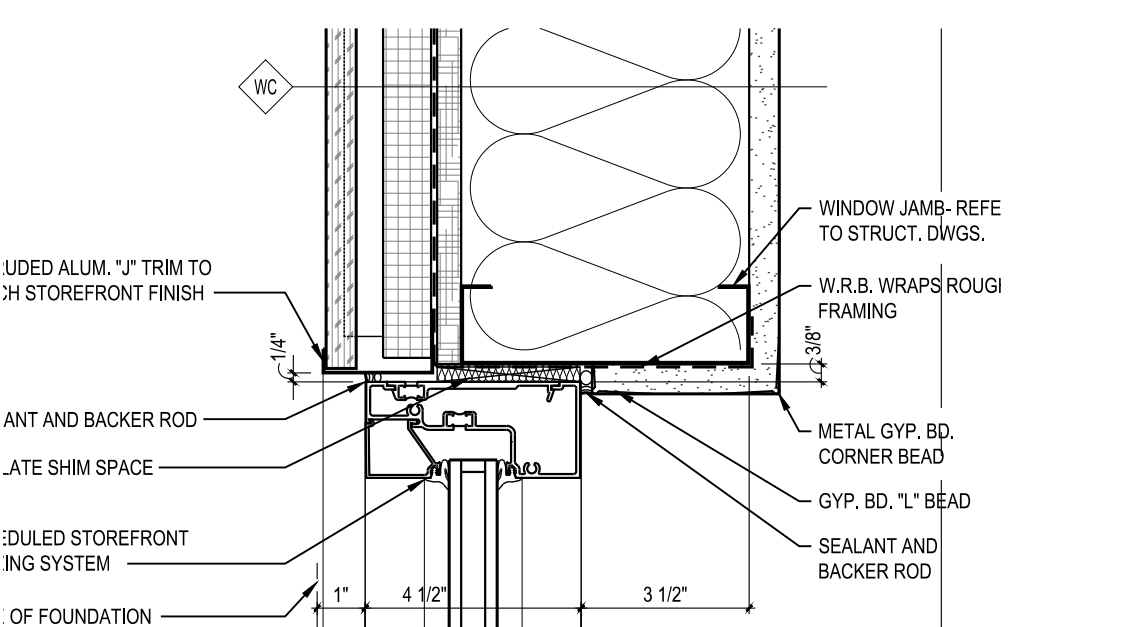
**9 TYP. ENTRANCE CANOPY**  
A5.1.3 3" = 1'-0"



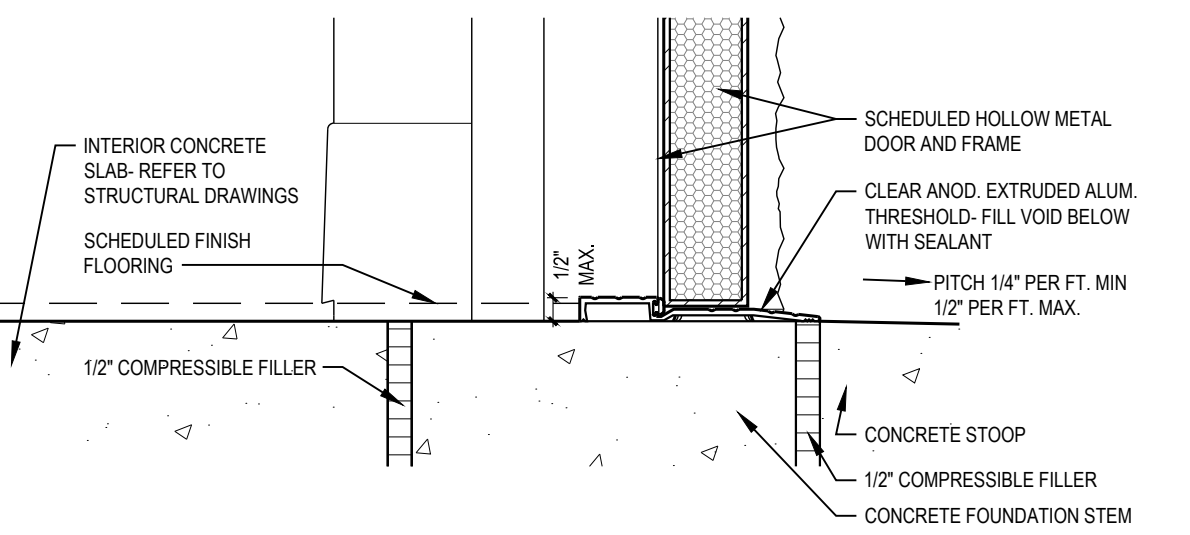
**5 FIBER CEMENT CORNER DETAILS**  
A5.1.3 1 1/2" = 1'-0"



**2 EXTERIOR DOOR HEAD (JAMB SIMILAR)**  
A5.1.3 3" = 1'-0"



**4 FIBER CEMENT / GLAZING JAMB**  
A5.1.3 3" = 1'-0"



**1 EXTERIOR DOOR THRESHOLD**  
A5.1.3 3" = 1'-0"

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**PRYOR ROAD & LOWENSTEIN DRIVE**  
908 NW PRYOR ROAD  
LEE'S SUMMIT, MO 64081

EBC JOB #412100090

| ISSUE | DATE       | DESCRIPTION      |
|-------|------------|------------------|
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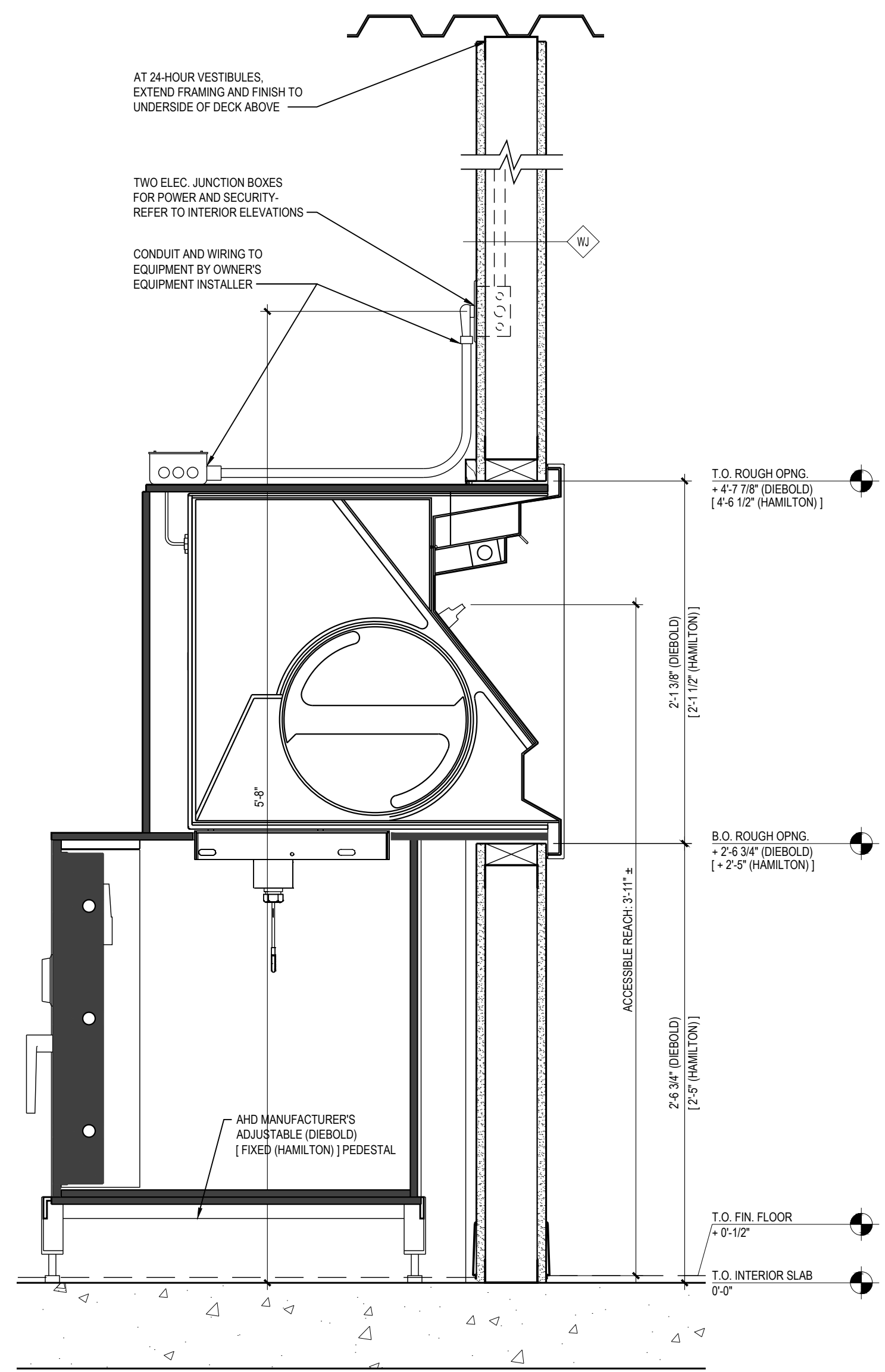


PRYOR & LOWENSTEIN  
PROTOTYPE VERSION 20.4

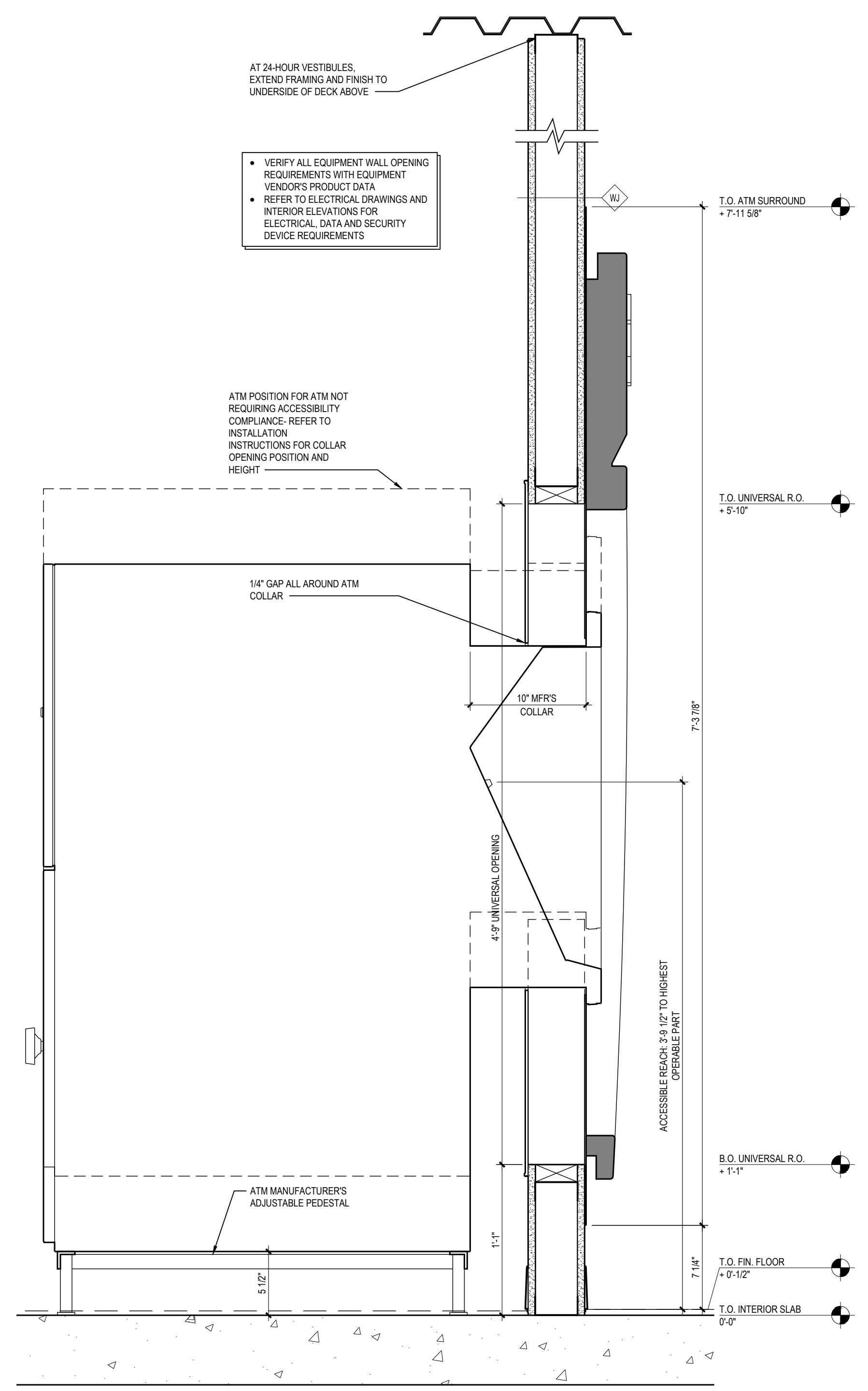
CONTENTS  
DETAILS: BUILDING ENVELOPE

02/04/2022  
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**A5.1.3**



3 INTERIOR THROUGH-WALL AHD  
A5.2.1 1 1/2" = 1'-0"



2 INTERIOR THROUGH-WALL ATM  
A5.2.1 1 1/2" = 1'-0"

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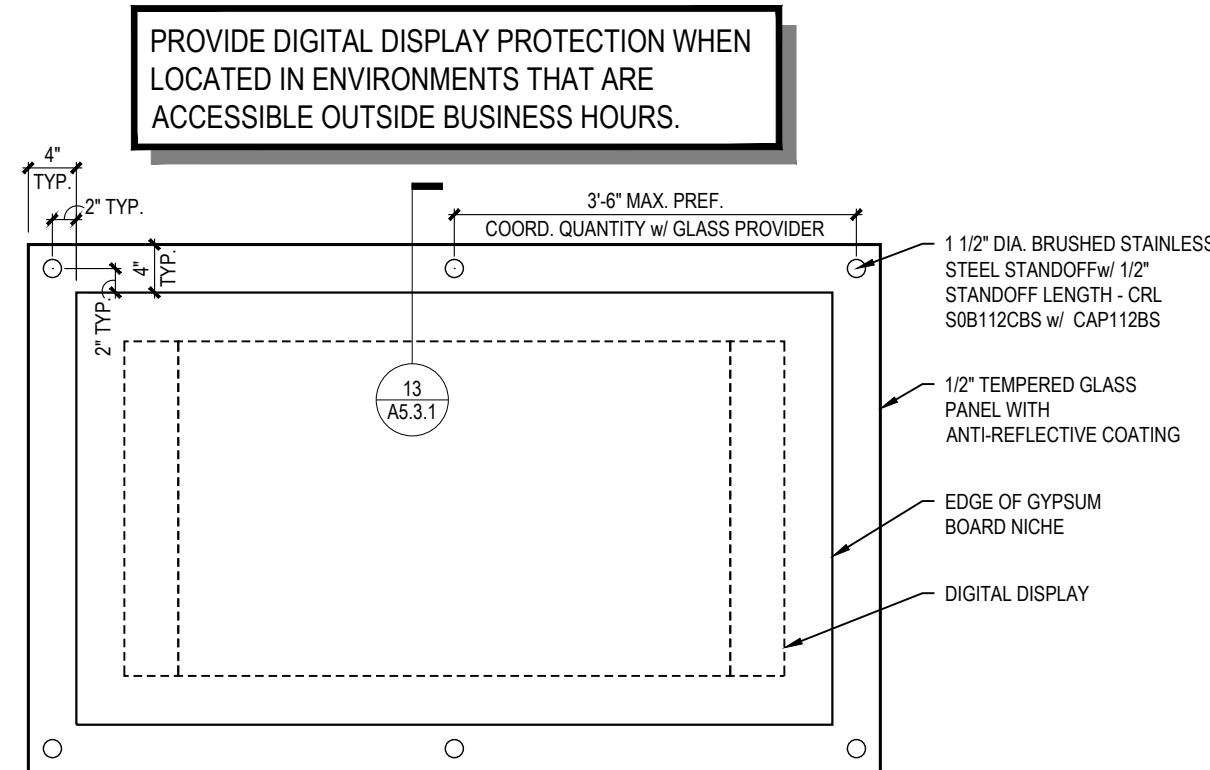
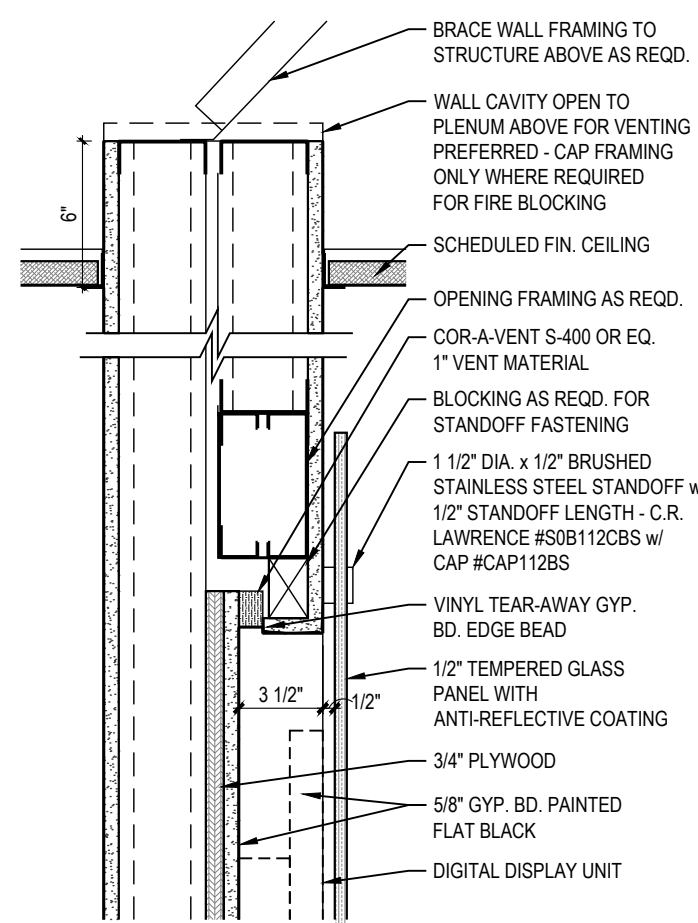


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PROTOTYPE VERSION 20.4

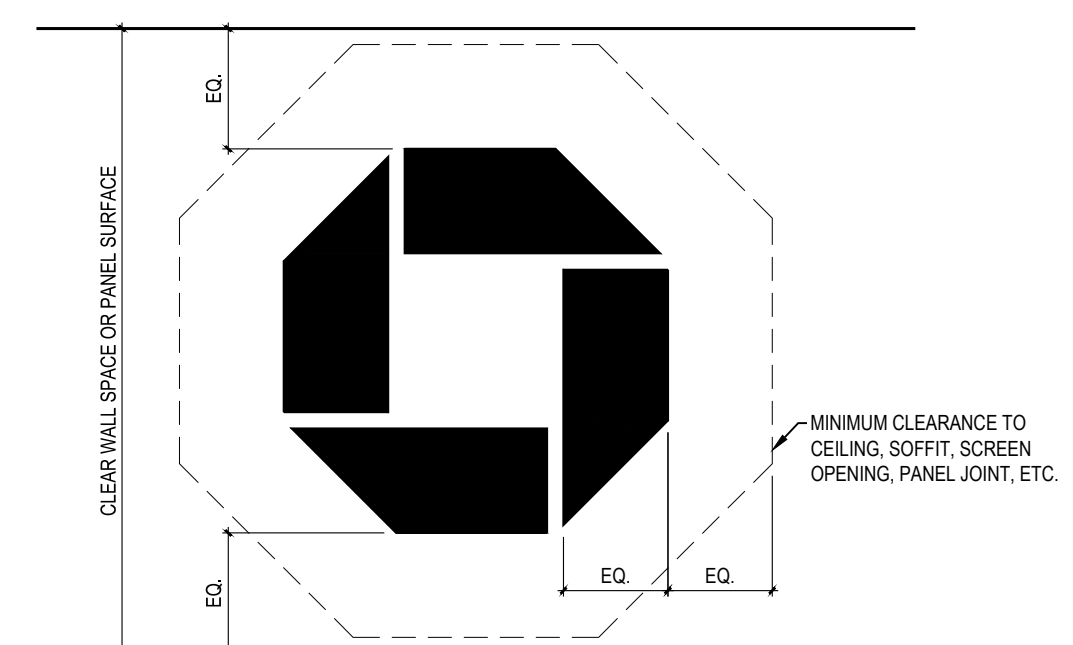
CONTENTS  
DETAILS:  
INTERIOR THROUGH-WALL ATM  
INTERIOR THROUGH-WALL AHD

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**A5.2.1**



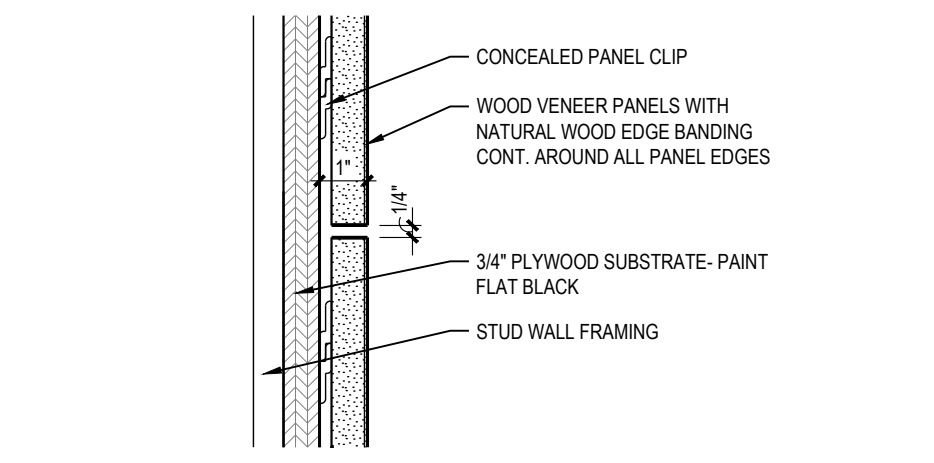
**8** PANEL WALL TOP  
A5.3.1 3" = 1'-0"



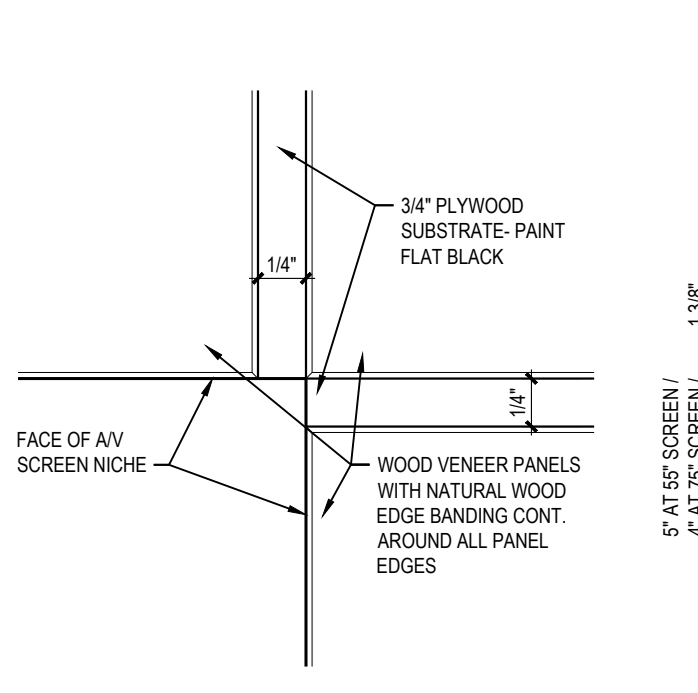
**14** OCTAGON MINIMUM SPACING  
A5.3.1 1 1/2" = 1'-0"

**13** DIGITAL DISPLAY PROTECTION  
A5.3.1 1 1/2" = 1'-0"

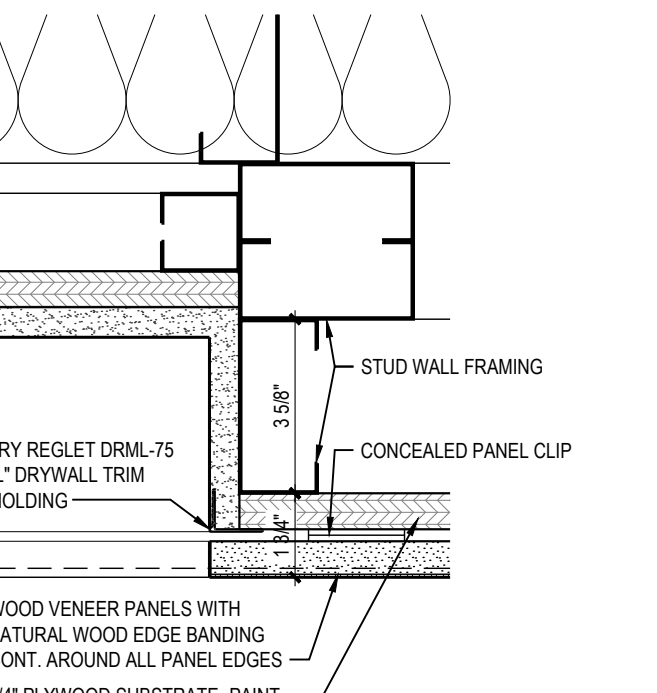
**12** DIGITAL DISPLAY PROTECTION  
A5.3.1 3/4" = 1'-0"



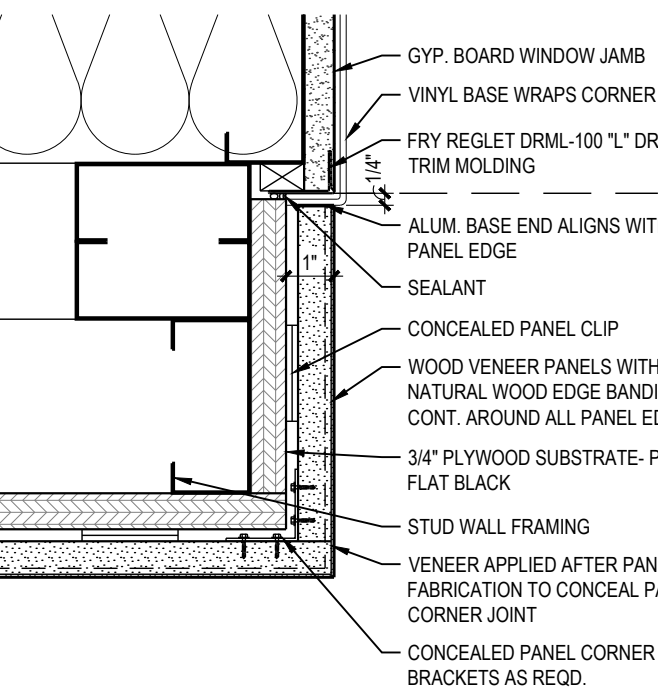
**7** PANEL JOINT  
A5.3.1 3" = 1'-0"



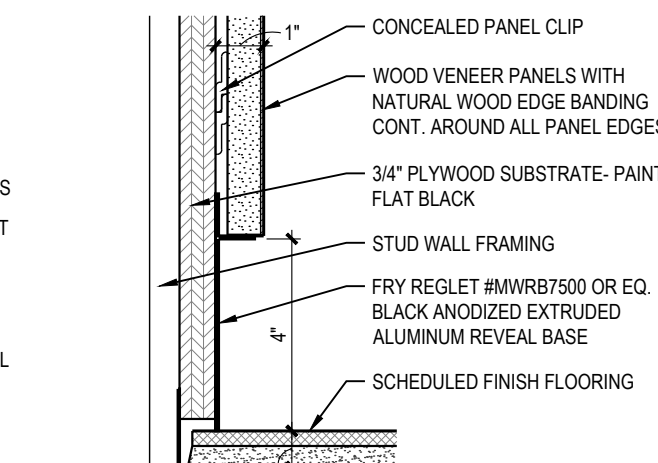
**11** PANEL JOINT ALIGNMENT  
A5.3.1 FULL SCALE



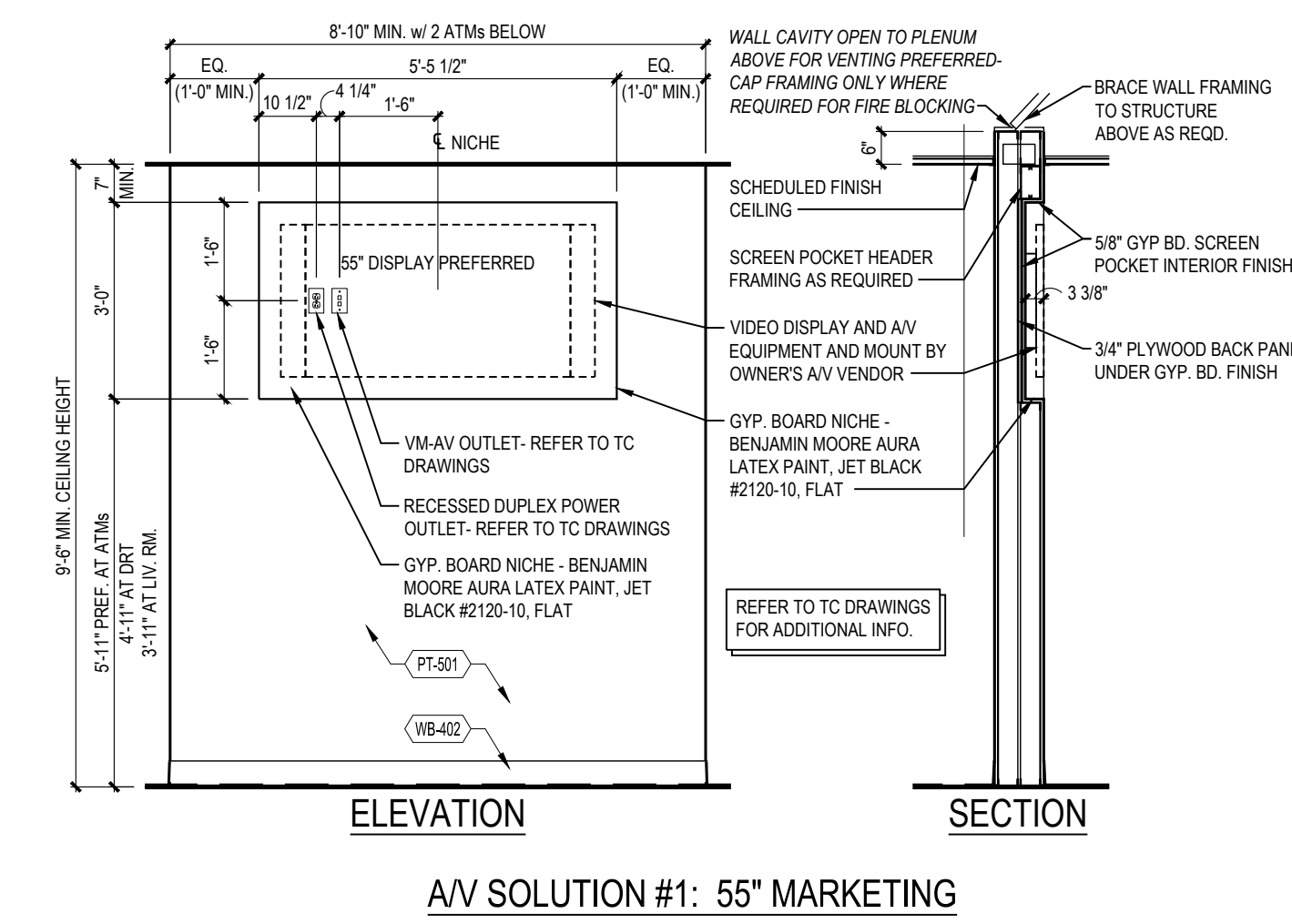
**10** SCREEN NICHE  
A5.3.1 3" = 1'-0"



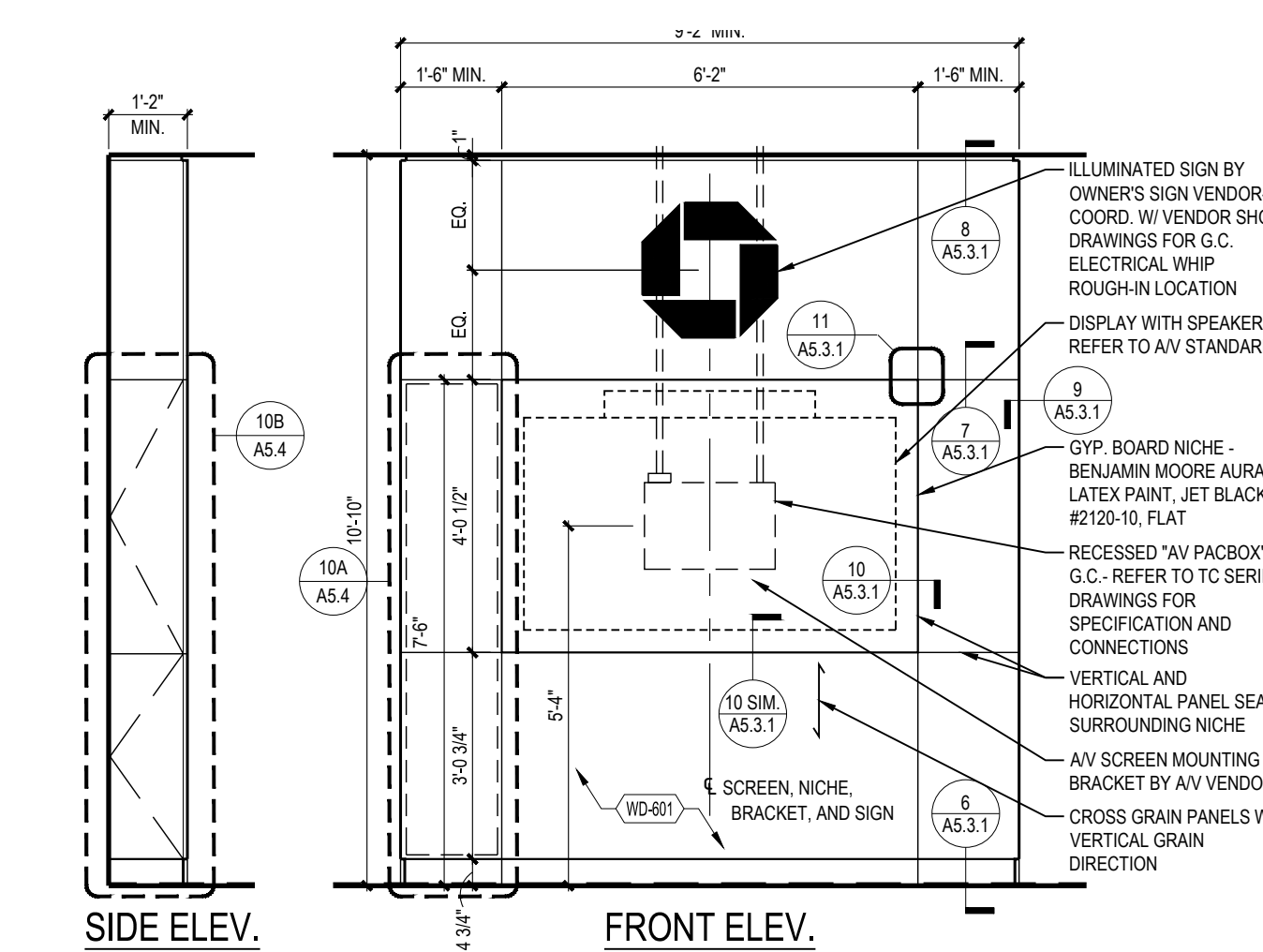
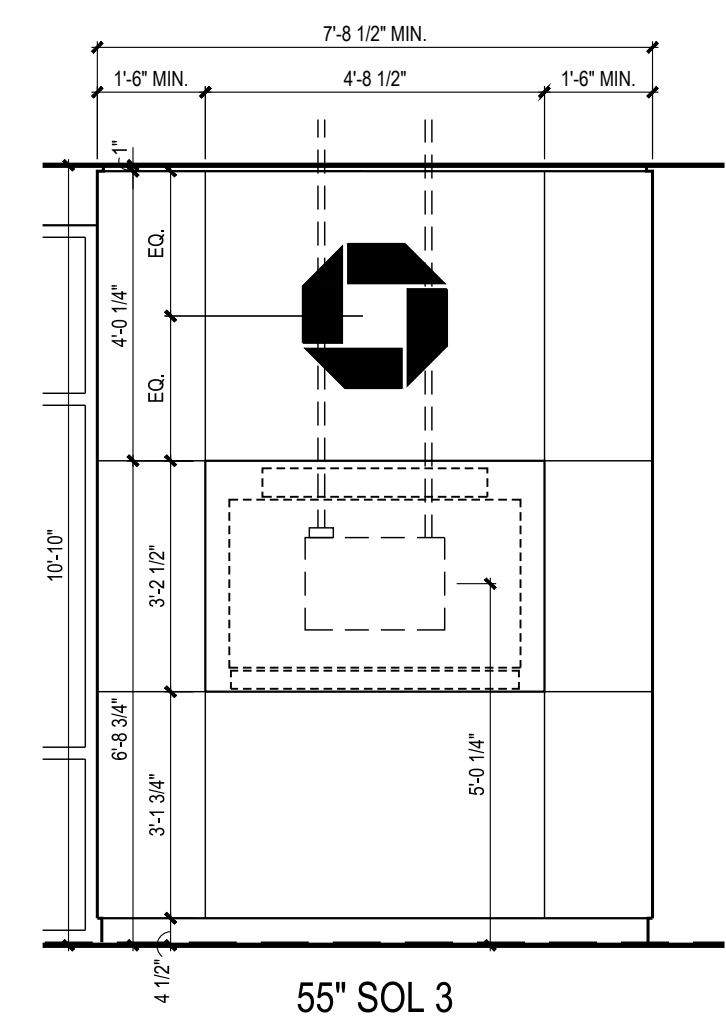
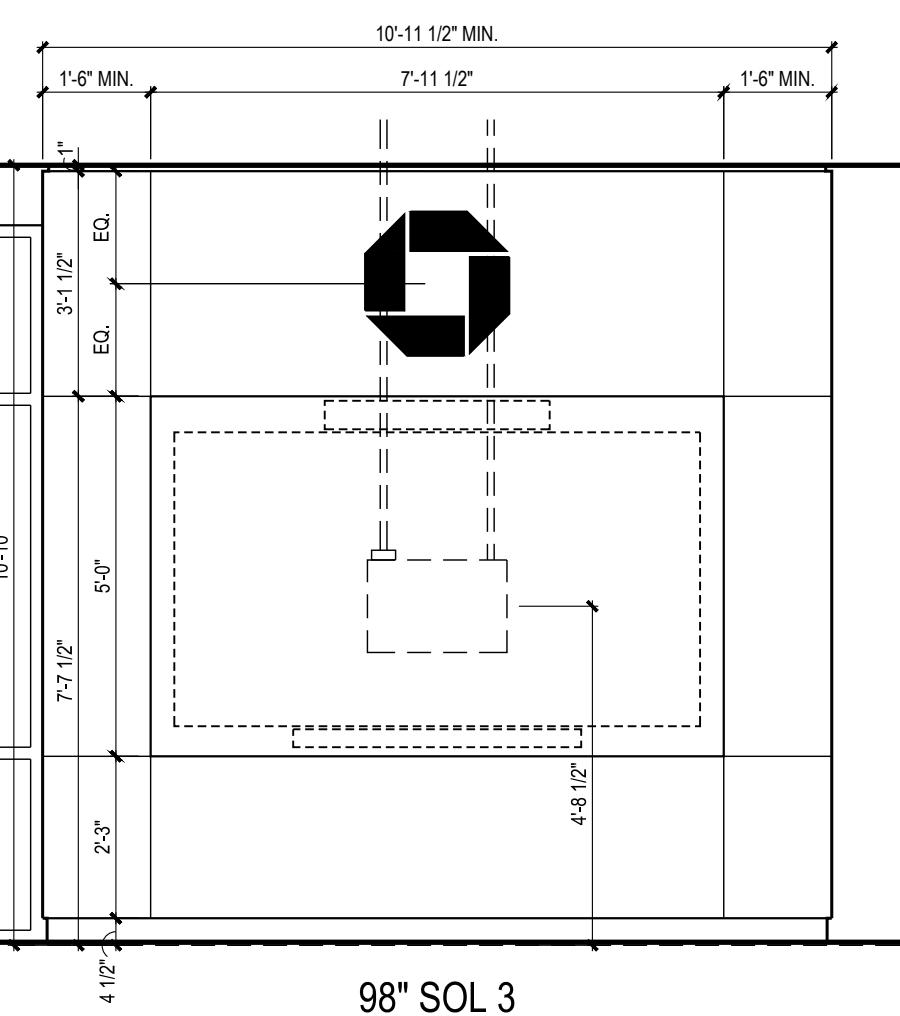
**9** PANEL WALL CORNER  
A5.3.1 3" = 1'-0"



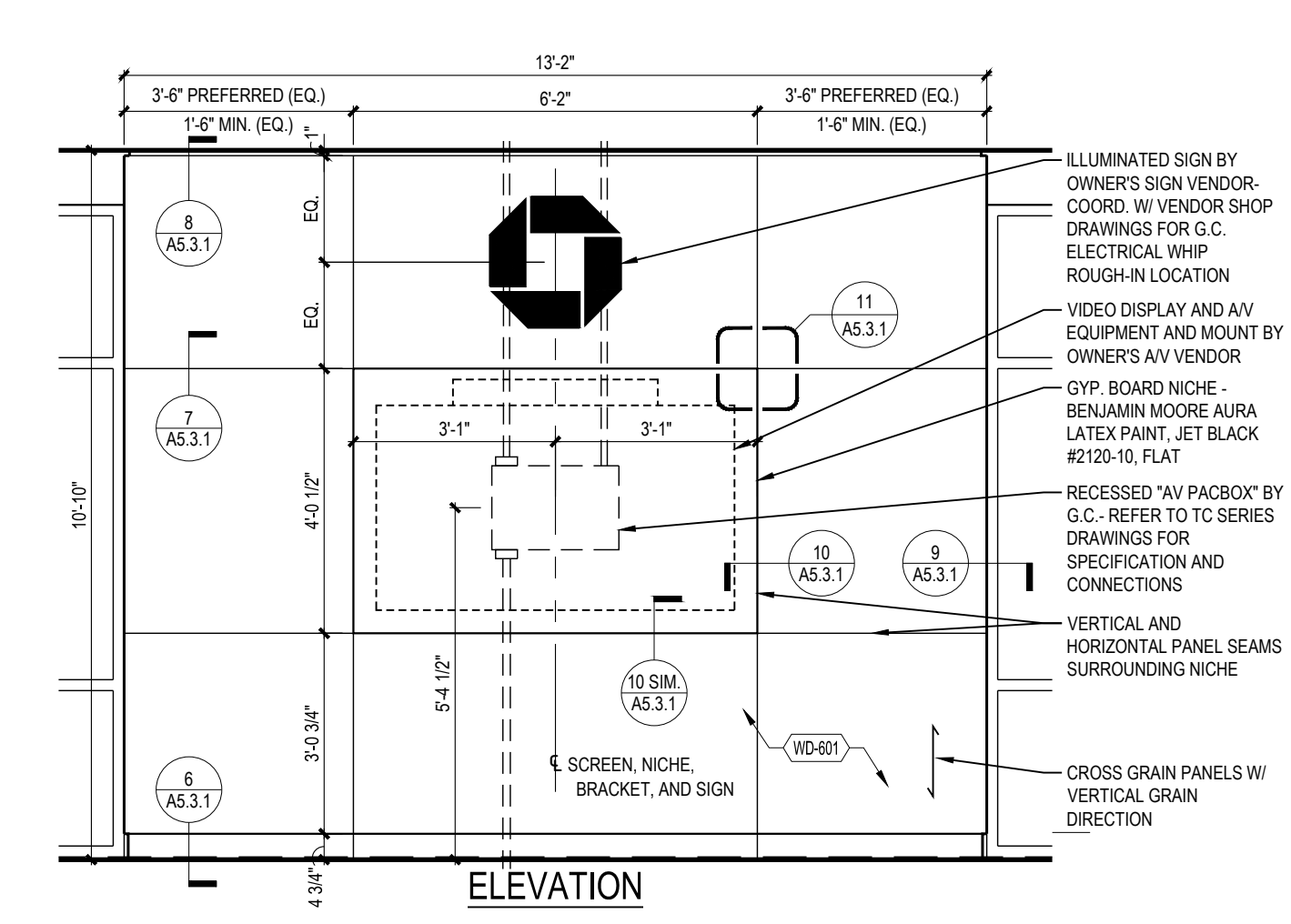
**6** PANEL WALL BASE  
A5.3.1 3" = 1'-0"



**5** TYPICAL AV MARKETING WALL  
A5.3.1 3/8" = 1'-0"



**3** 75" TELEPRESENCE W/ BUILT-IN TP CONTROLS  
A5.3.1



**4** PANELED AV TELEPRESENCE WALL  
A5.3.1 3/8" = 1'-0"

**4** PANELED AV TELEPRESENCE WALL  
A5.3.1 3/8" = 1'-0"

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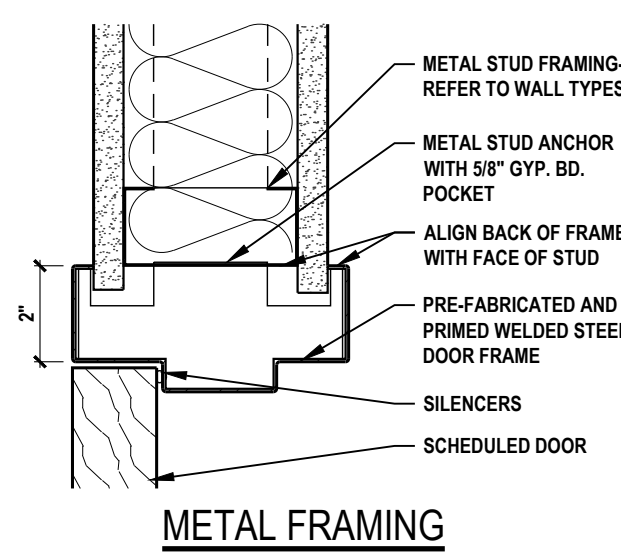


**PRYOR & LOWENSTEIN**  
PROTOTYPE VERSION 20.4

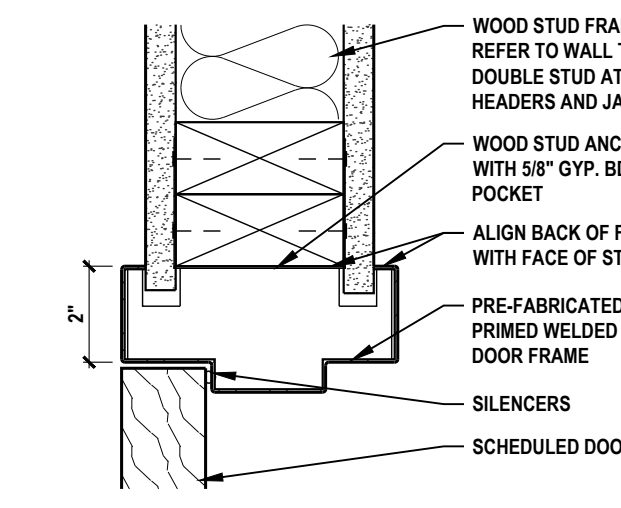
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OVERHEAD COILING DOORS  
DIGITAL DISPLAYS  
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MILLWORK WALL PANELS

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**A5.3.1**

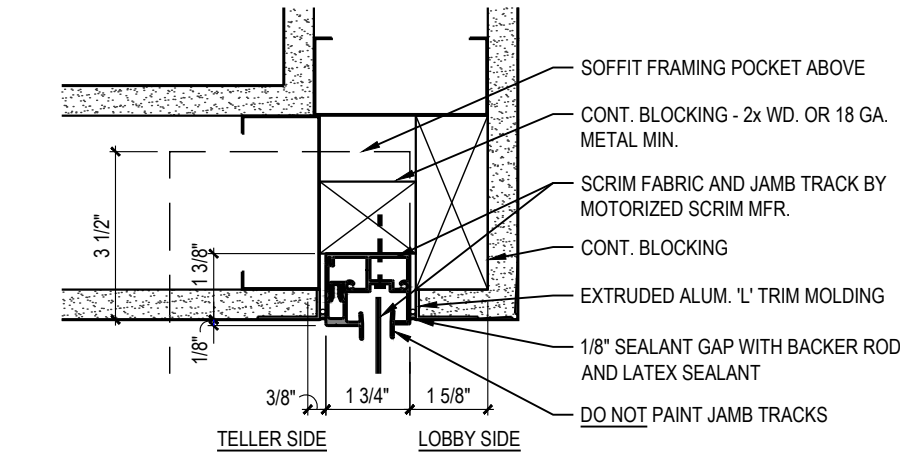


METAL FRAMING

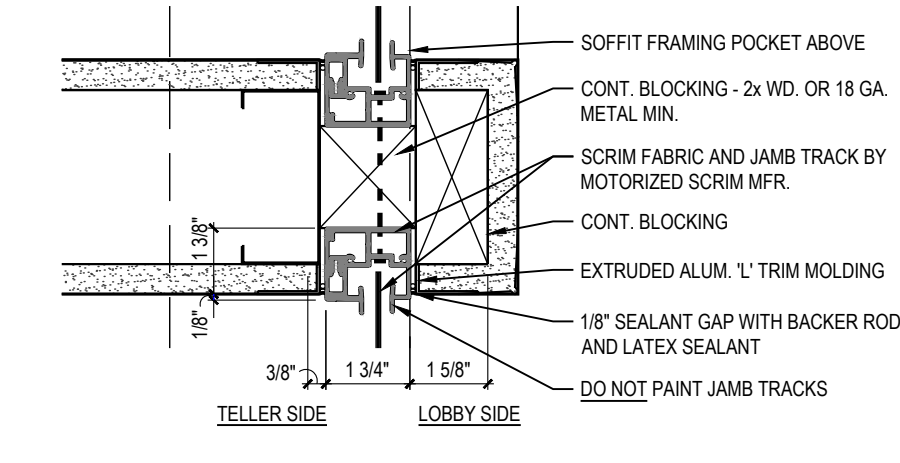


WOOD FRAMING

13 INTERIOR DOOR HEAD / JAMB SIM. 3" = 1'-0"

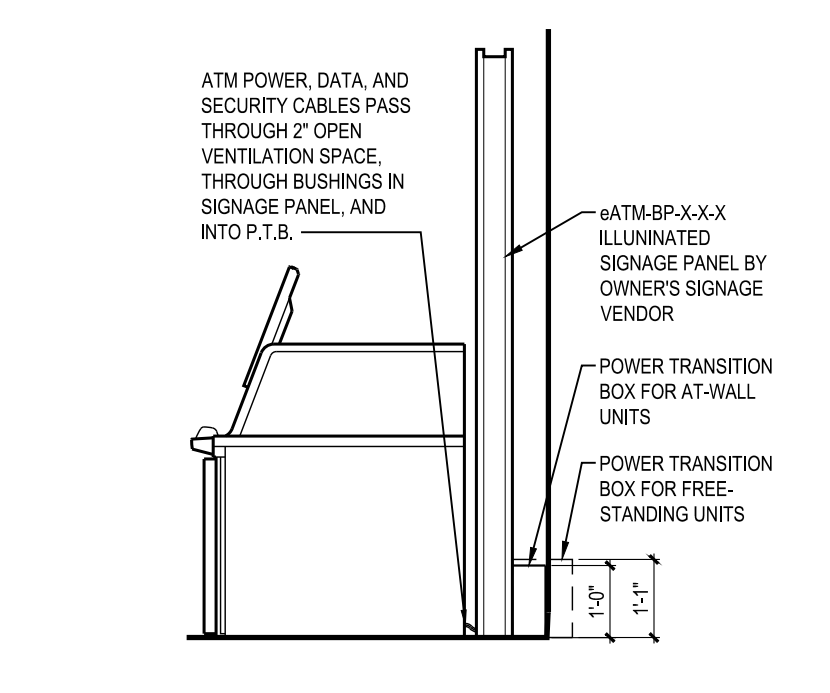


SCRIM JAMB

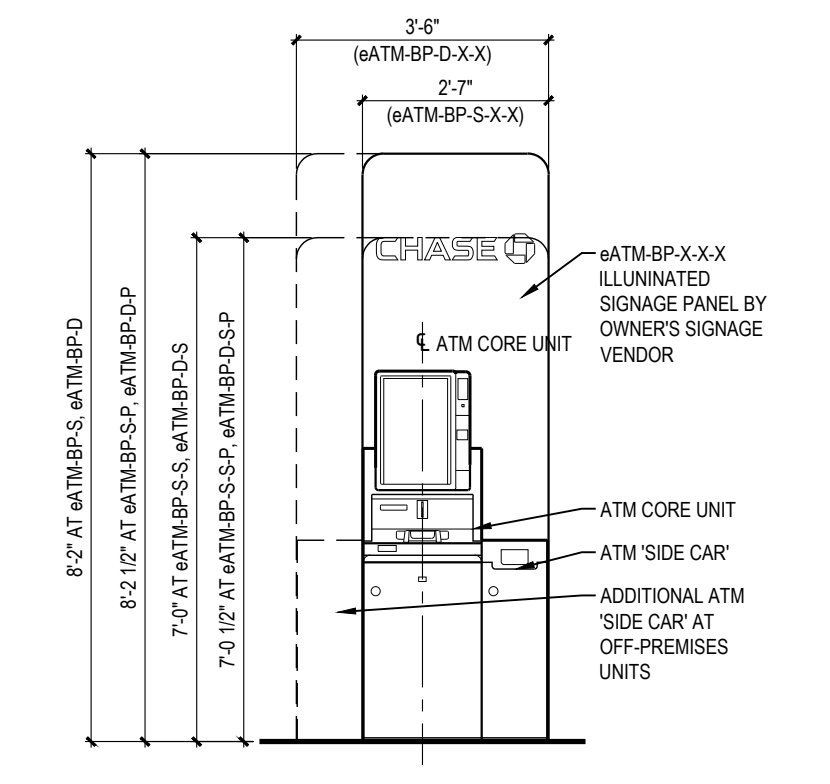


SCRIM JAMB

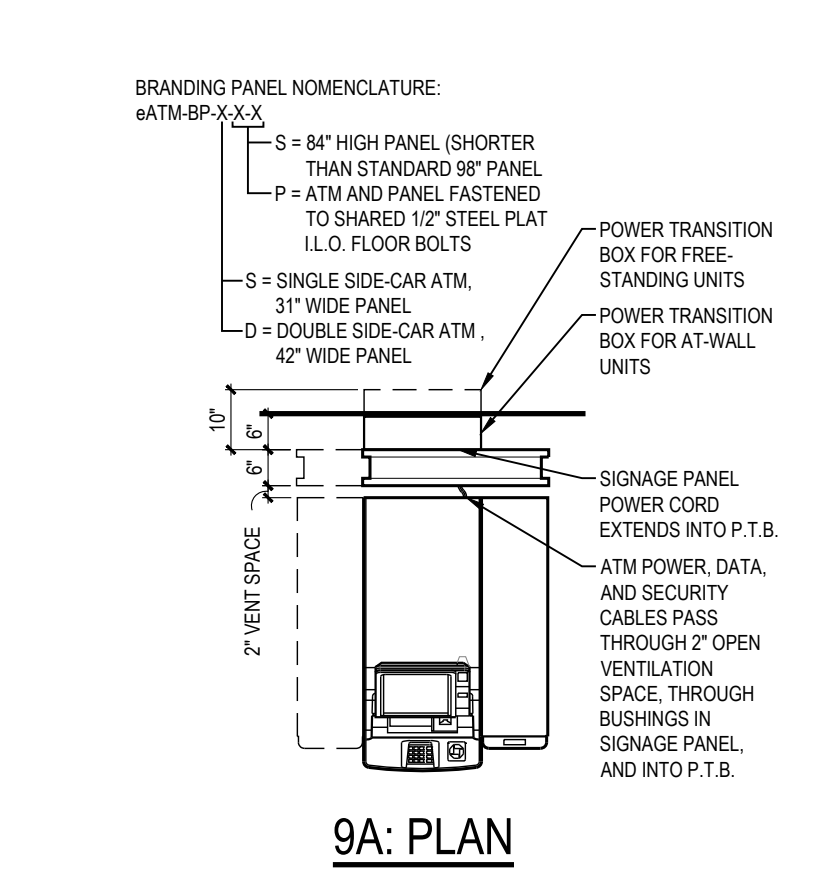
11 SCRIM JAMB 3" = 1'-0"



9C: SIDE

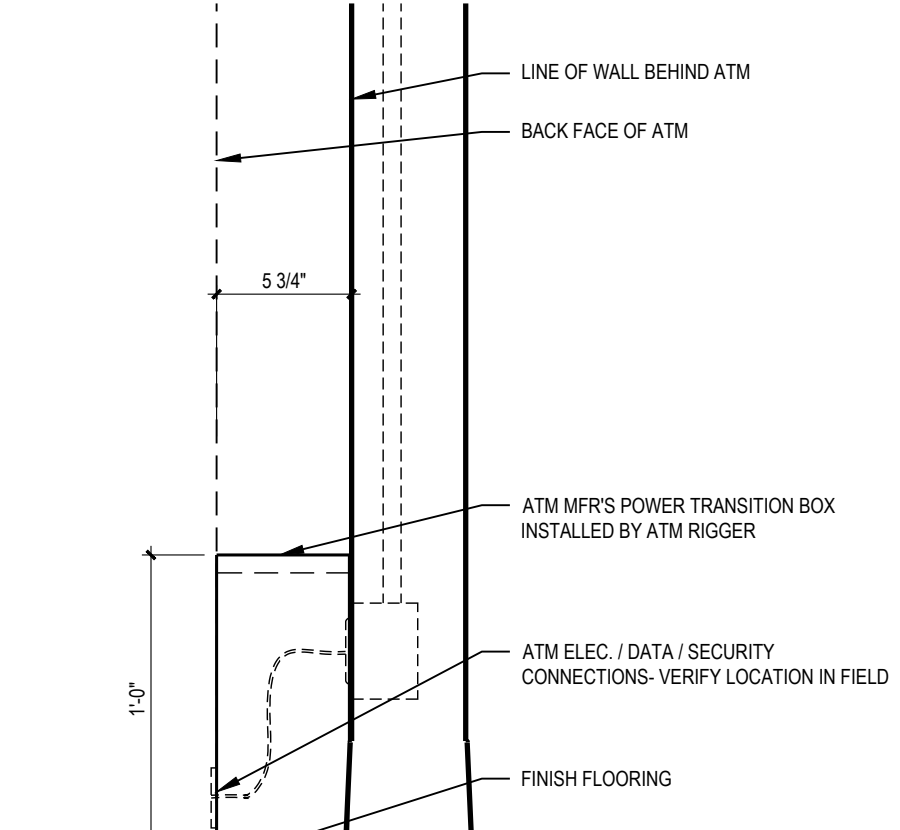


9B: FRONT



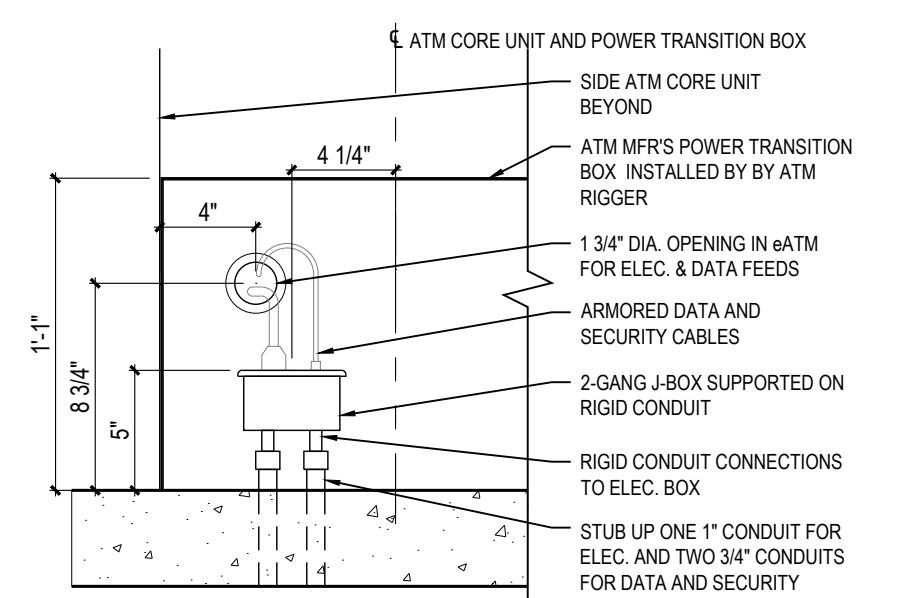
9A: PLAN

9 ATM BRANDING PANEL 3/8" = 1'-0"



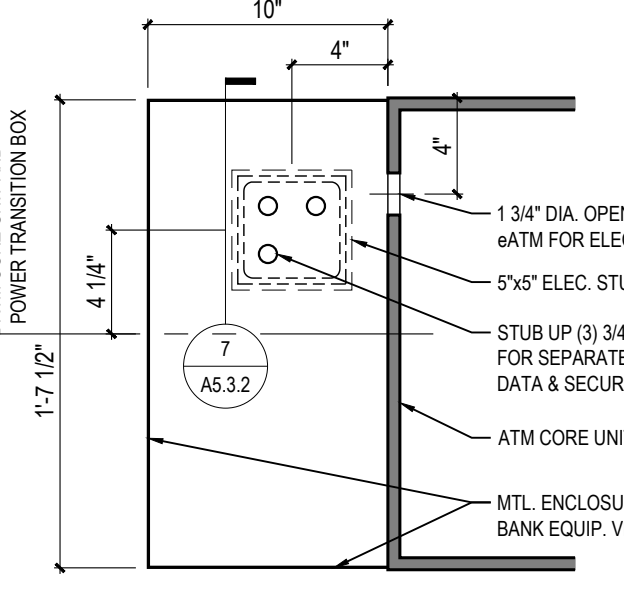
ATM MANUFACTURER'S POWER TRANSITION BOX

8 1 1/2" = 1'-0"



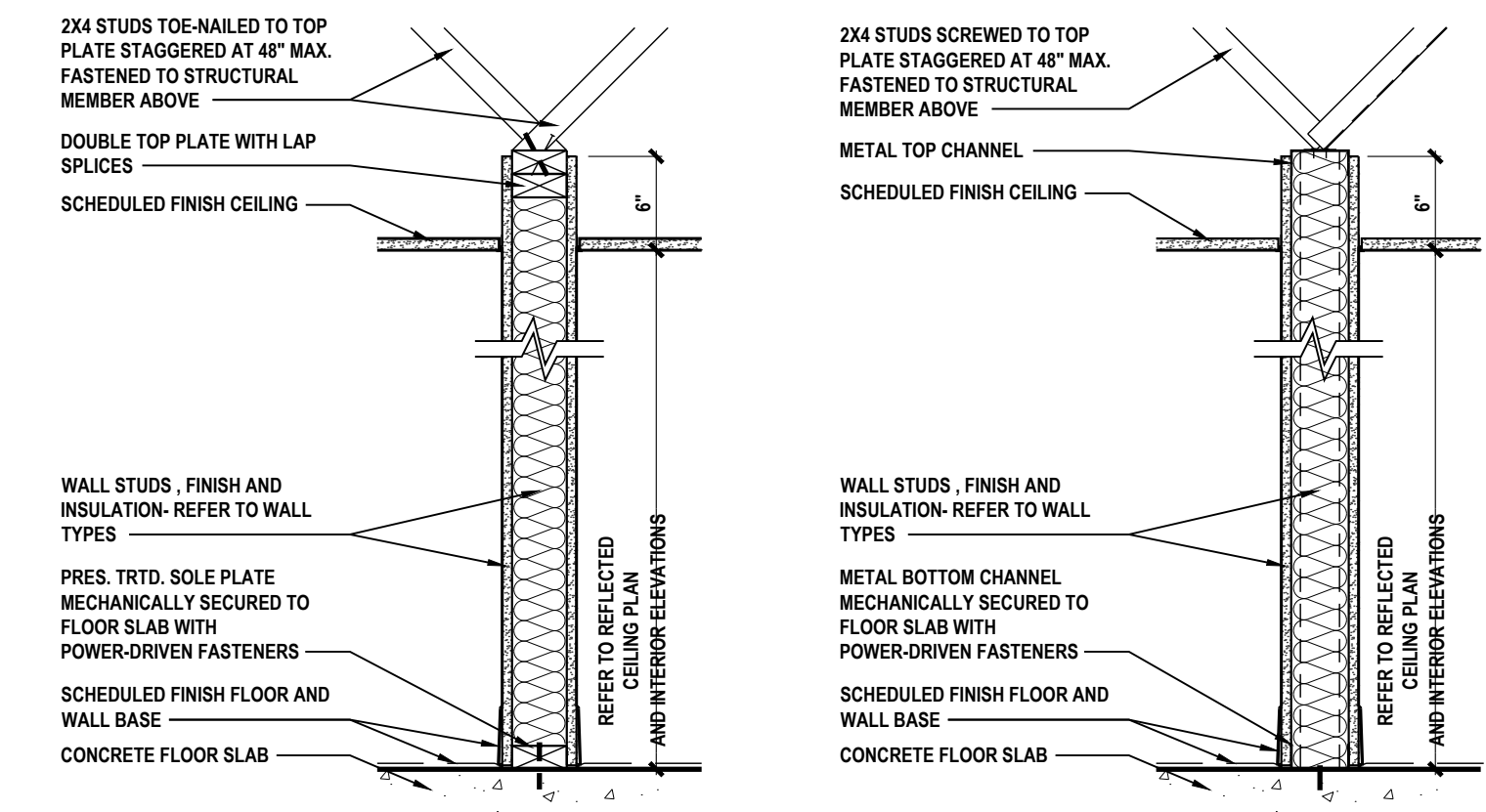
FREESTANDING ATM - ELEC./DATA/ SECURITY ROUGH-INS (VERT.)

7 1 1/2" = 1'-0"

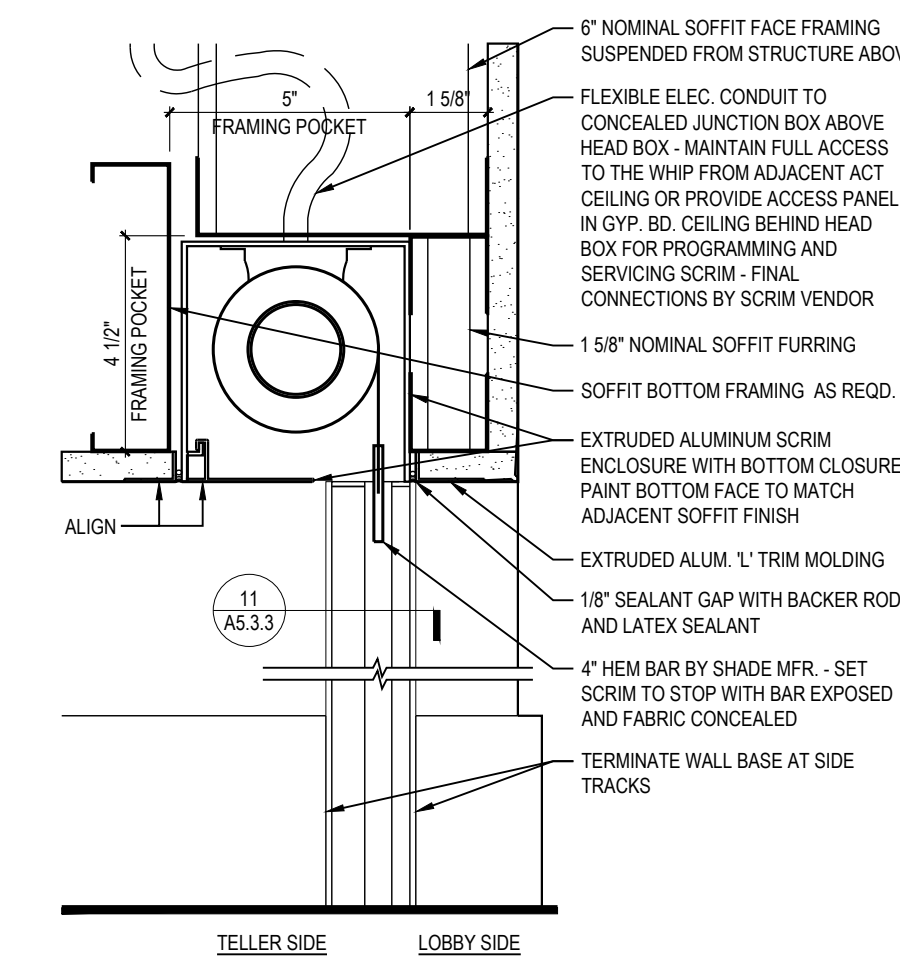


FREESTANDING ATM- ELEC./DATA/ SECURITY ROUGH-INS (HORIZ.)

6 1 1/2" = 1'-0"

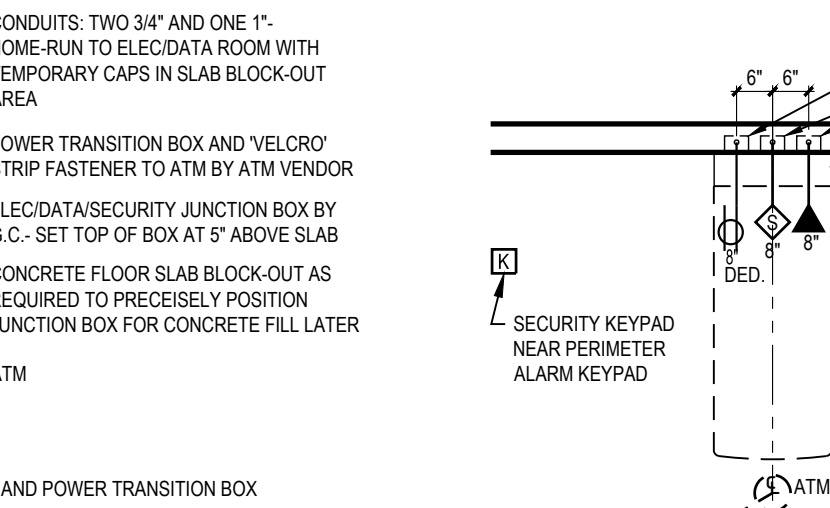


12 INTERIOR PARTITION BRACING 1" = 1'-0"

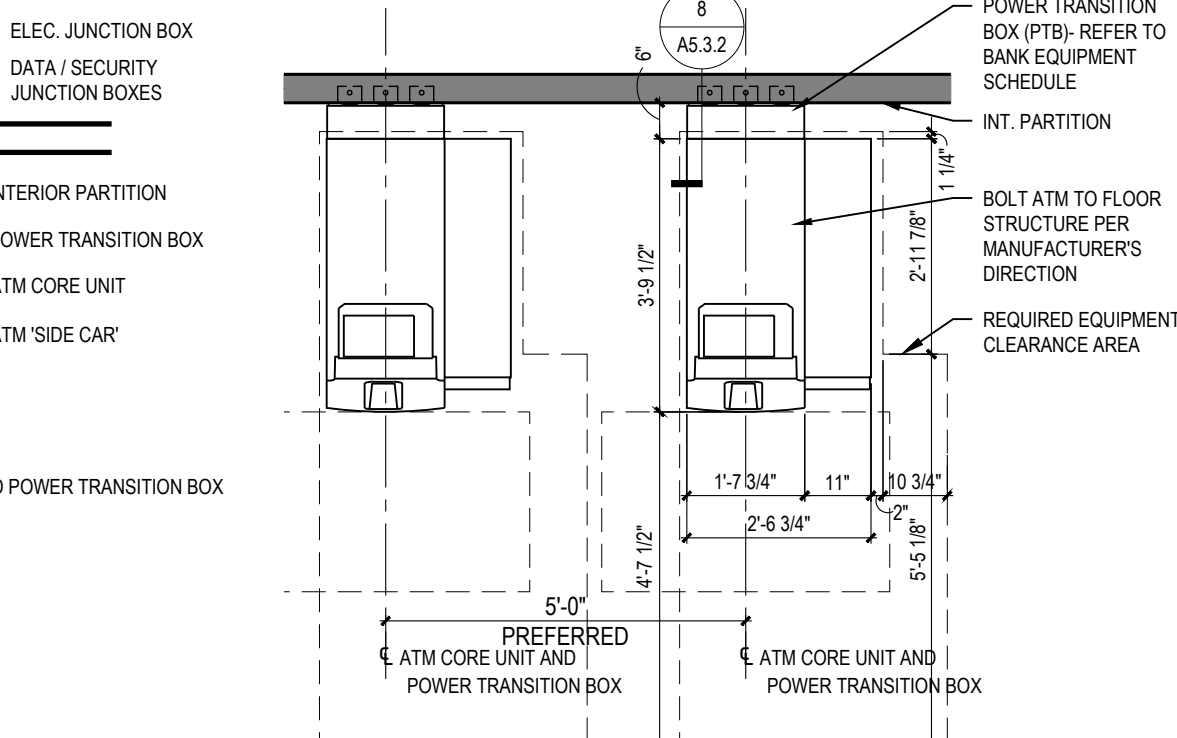


SCRIM HEAD

10 SCRIM HEAD 3" = 1'-0"



4 ATM v3.0 ELEVATIONS- AGAINST WALL 3/8" = 1'-0"



1 ATM v3.0 FLOOR PLAN 3/8" = 1'-0"

3 ATM v3.0 PLAN- FREESTANDING 3/8" = 1'-0"

2 ATM v3.0 ELEC./ DATA/SEC. PLAN 3/8" = 1'-0"

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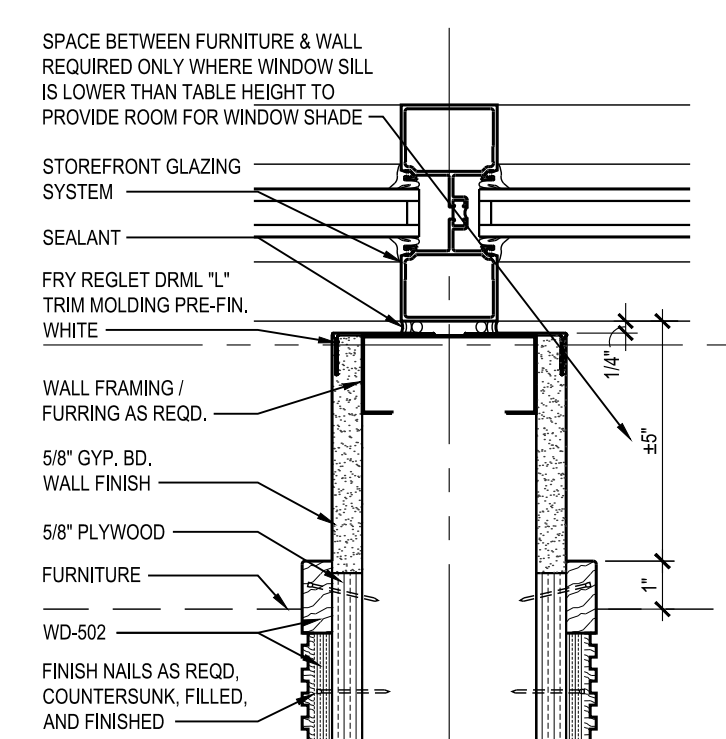


**PRYOR & LOWENSTEIN**  
PROTOTYPE VERSION 20.4

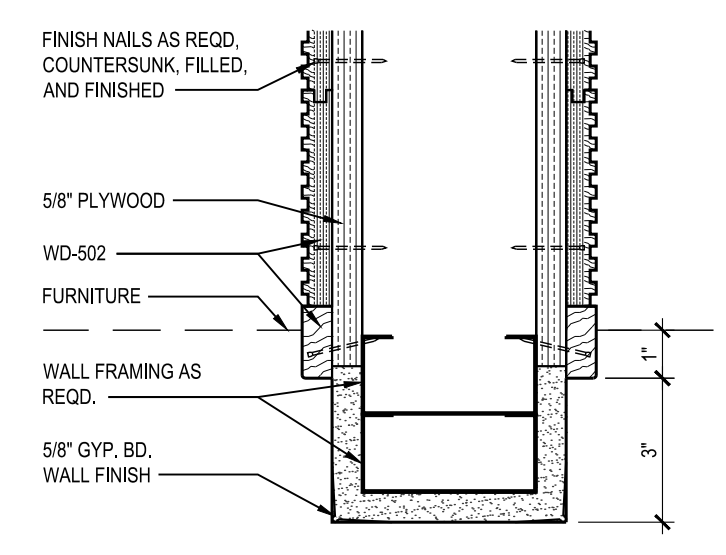
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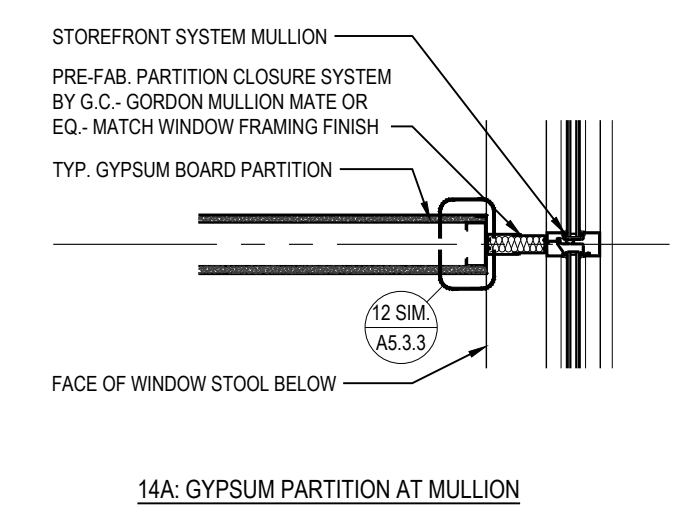
**A5.3.2**



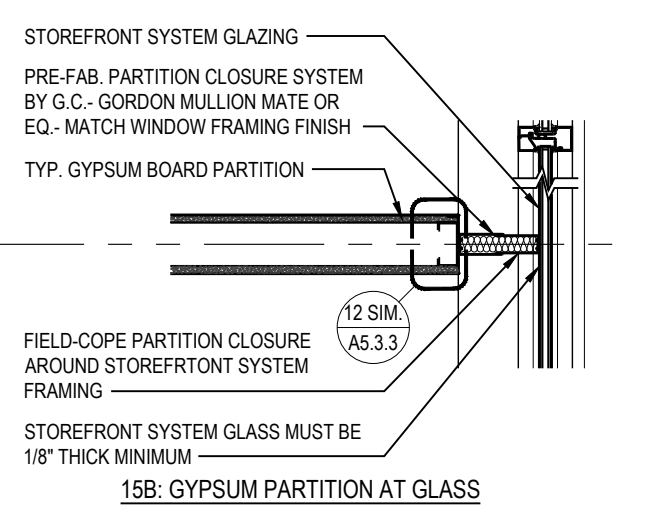
**12** TYP. PARTITION / STOREFRONT CLOSURE DETAILS  
A5.3.3 3/4" = 1'-0"



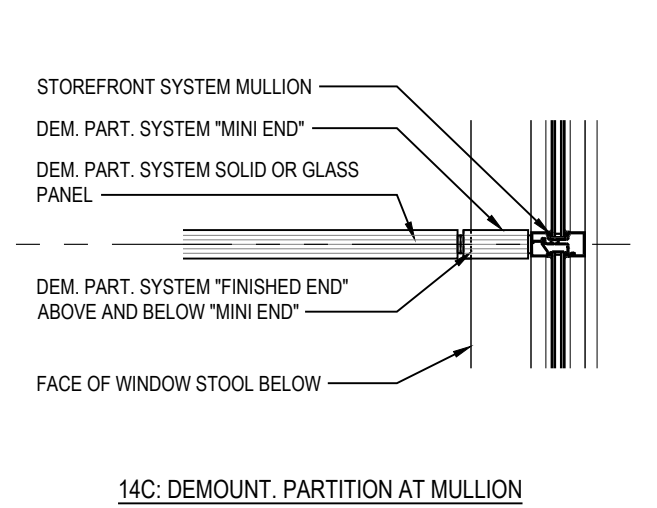
**11** BOOTH PARTITION LOBBY END  
A5.3.3 3" = 1'-0"



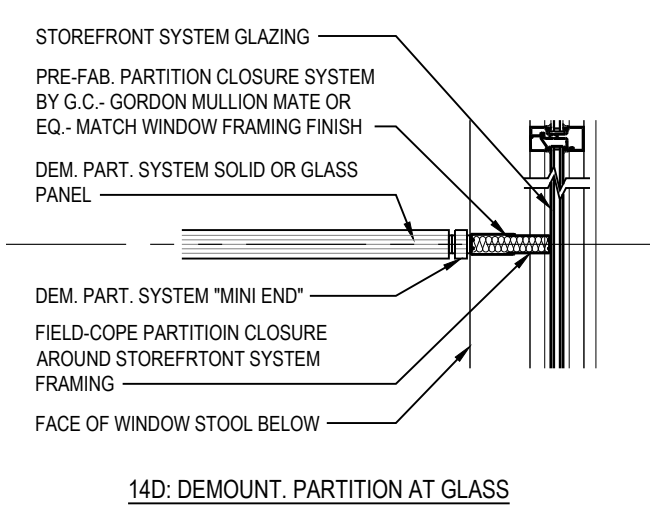
**14A** GYPSUM PARTITION AT MULLION  
A5.3.3 3/4" = 1'-0"



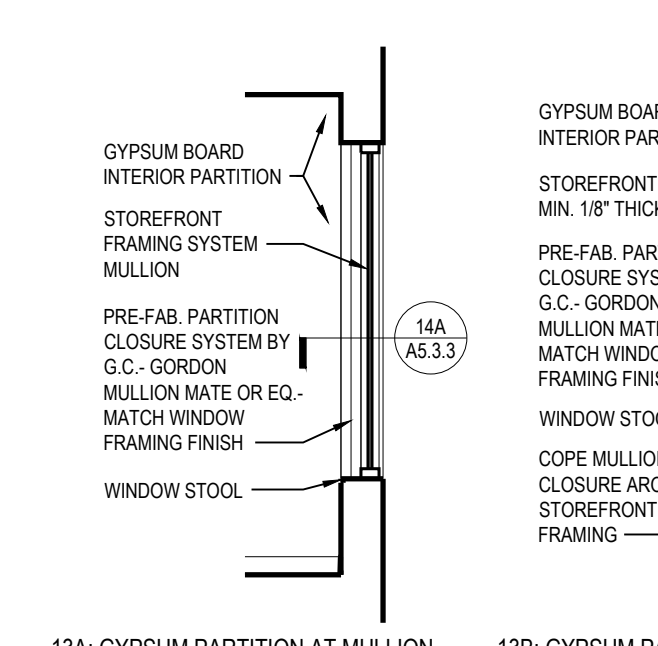
**15B** GYPSUM PARTITION AT GLASS  
A5.3.3 3/4" = 1'-0"



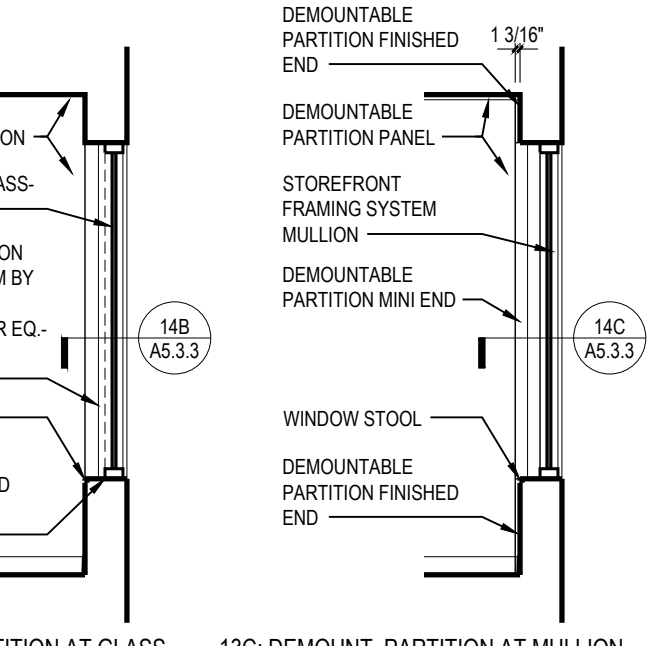
**14C** DEMOUNT. PARTITION AT MULLION  
A5.3.3 3/4" = 1'-0"



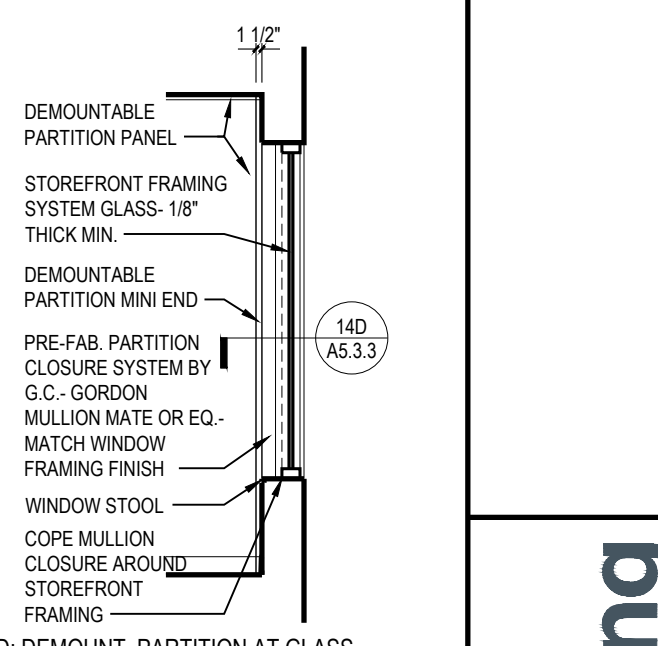
**14D** DEMOUNT. PARTITION AT GLASS  
A5.3.3 3/4" = 1'-0"



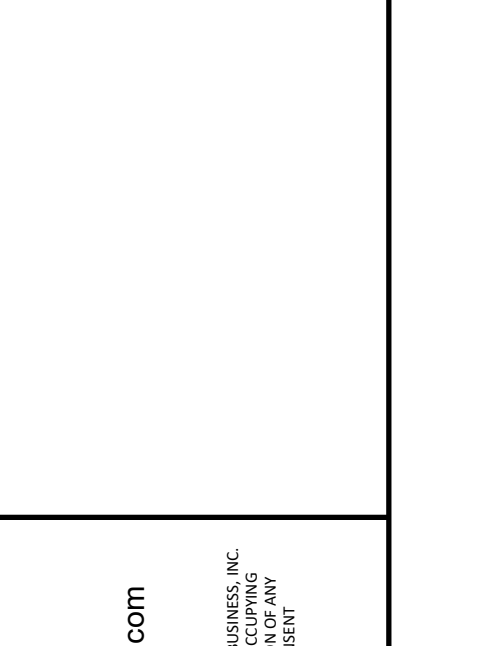
**13A** GYPSUM PARTITION AT MULLION  
A5.3.3 1/4" = 1'-0"



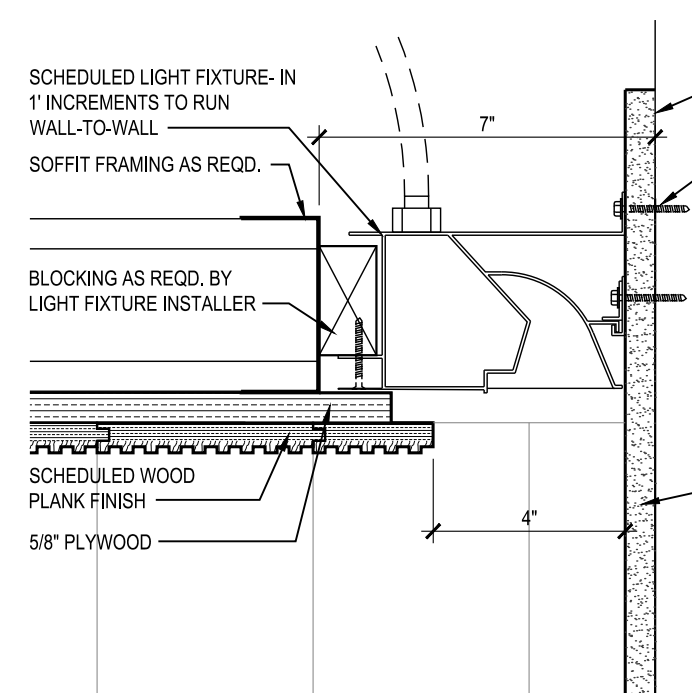
**13B** GYPSUM PARTITION AT GLASS  
A5.3.3 1/4" = 1'-0"



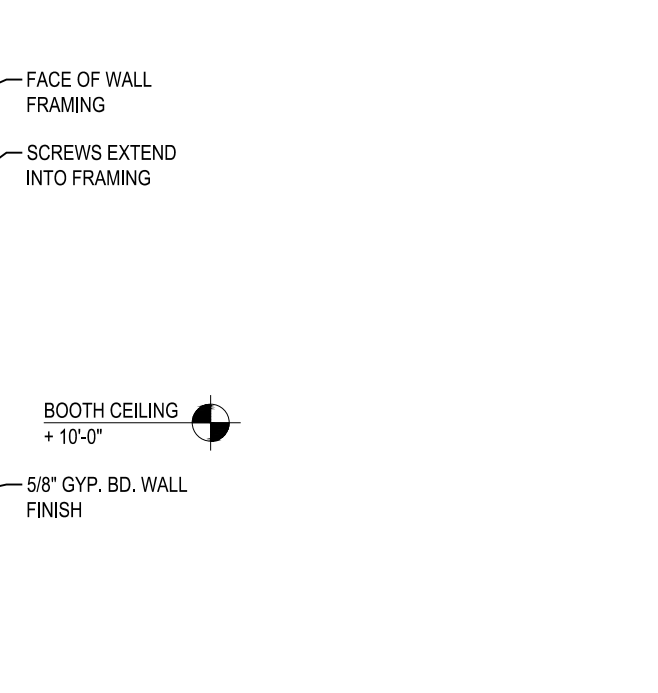
**13C** DEMOUNT. PARTITION AT MULLION  
A5.3.3 1/4" = 1'-0"



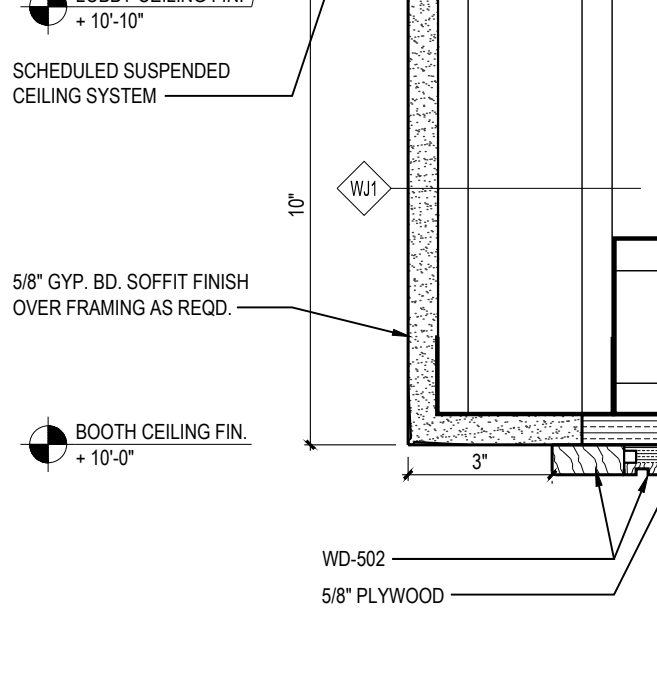
**13D** DEMOUNT. PARTITION AT GLASS  
A5.3.3 1/4" = 1'-0"



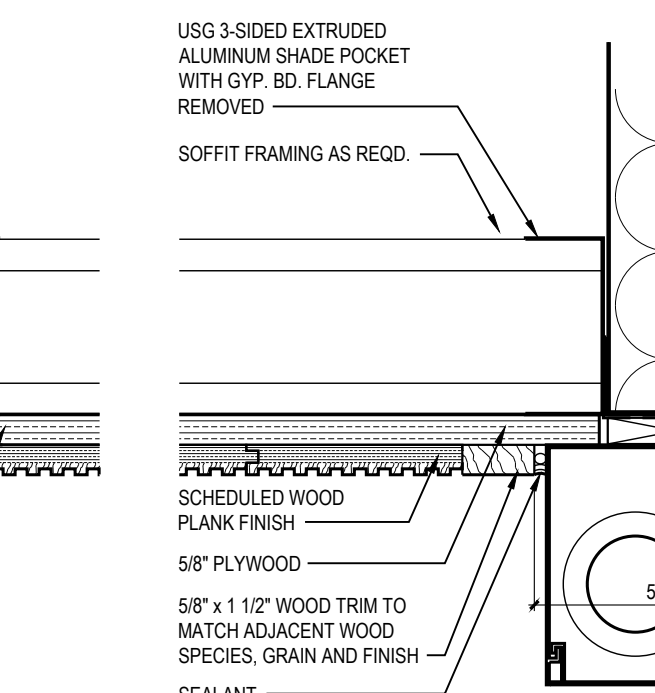
**10** BOOTH AT INTERIOR WALL-LIGHT COVE DETAIL  
A5.3.3 3" = 1'-0"



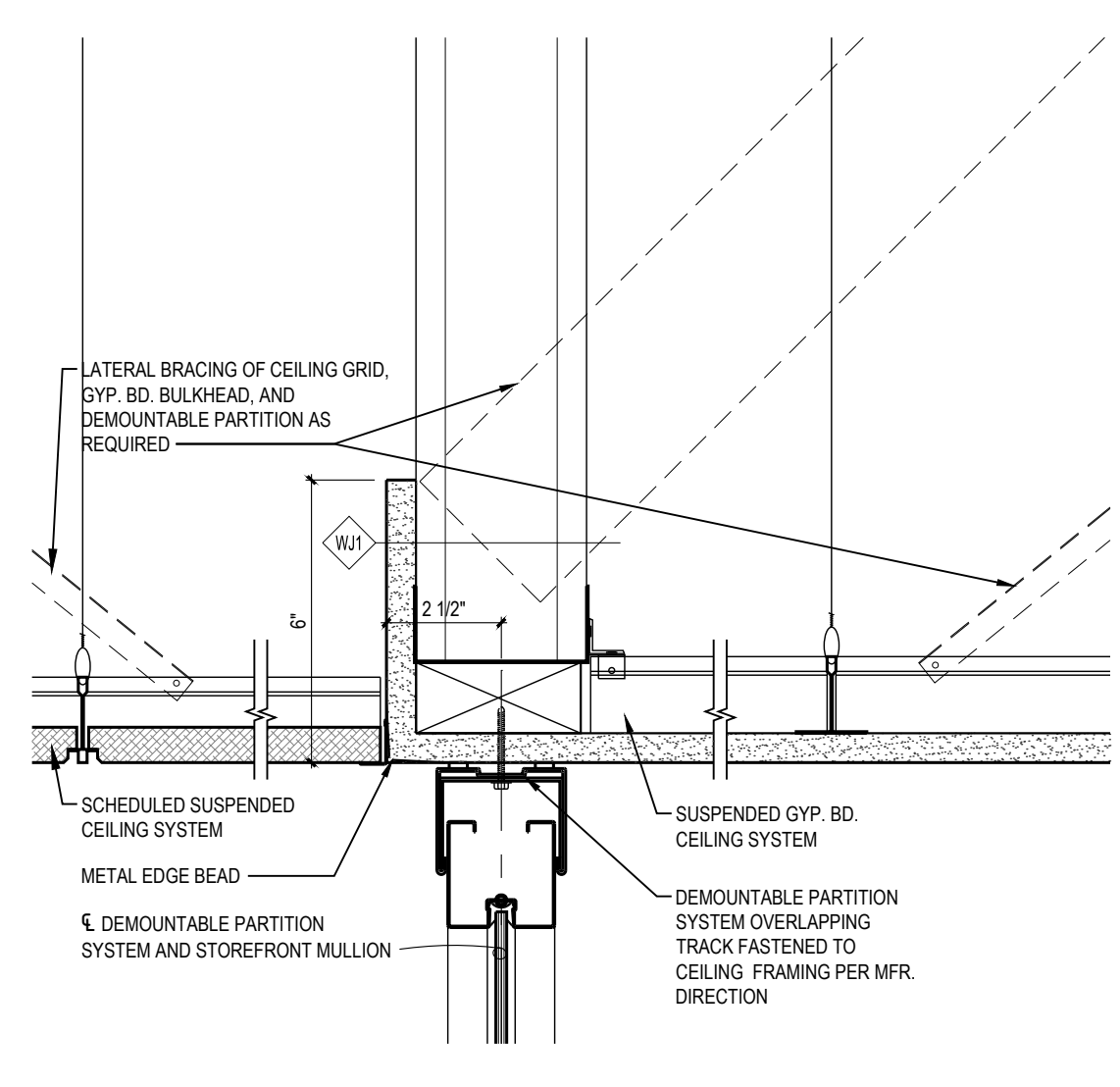
**9** BOOTH SOFFIT  
A5.3.3 3" = 1'-0"



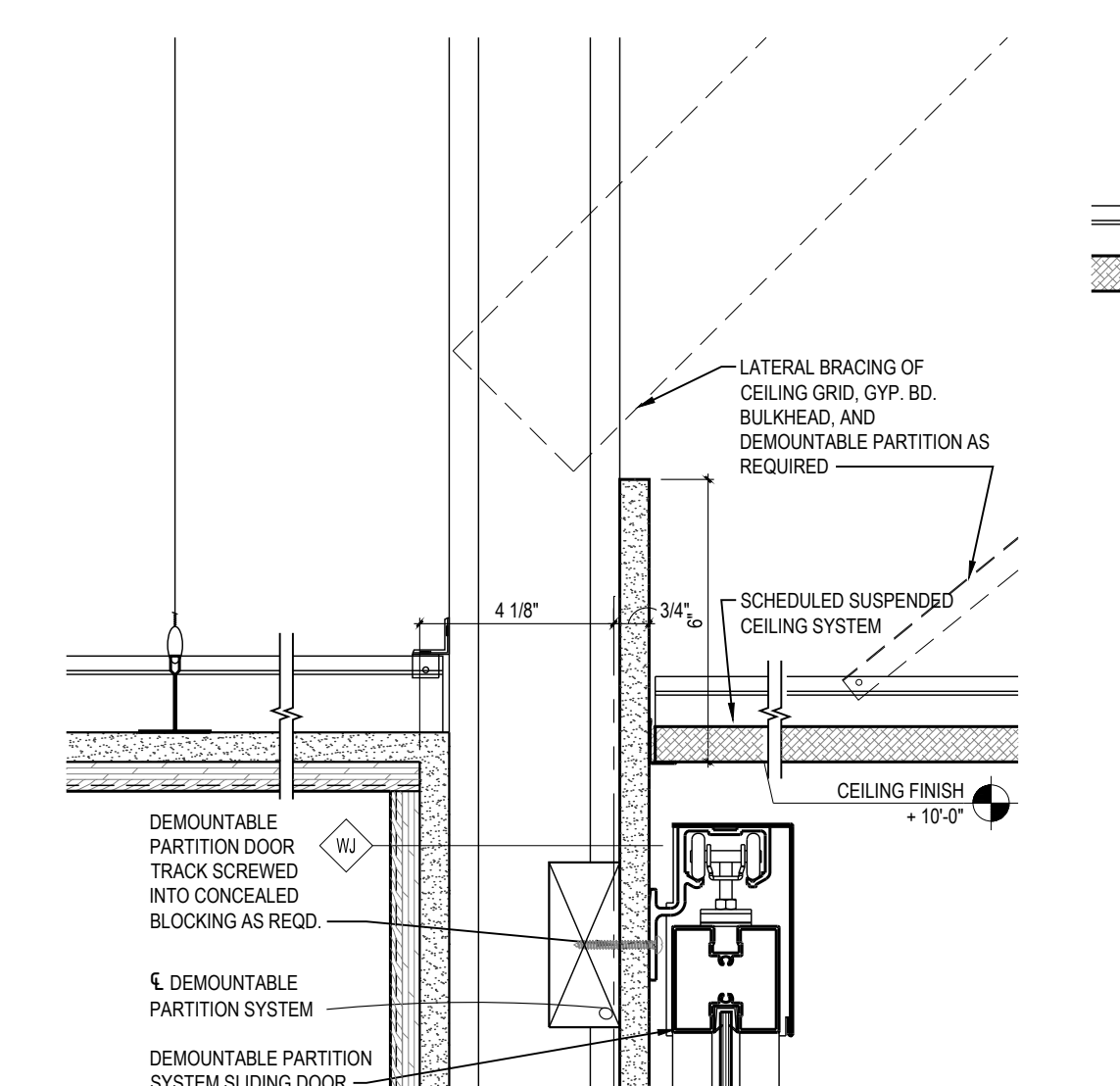
**8** BOOTH SHADE POCKET  
A5.3.3 3" = 1'-0"



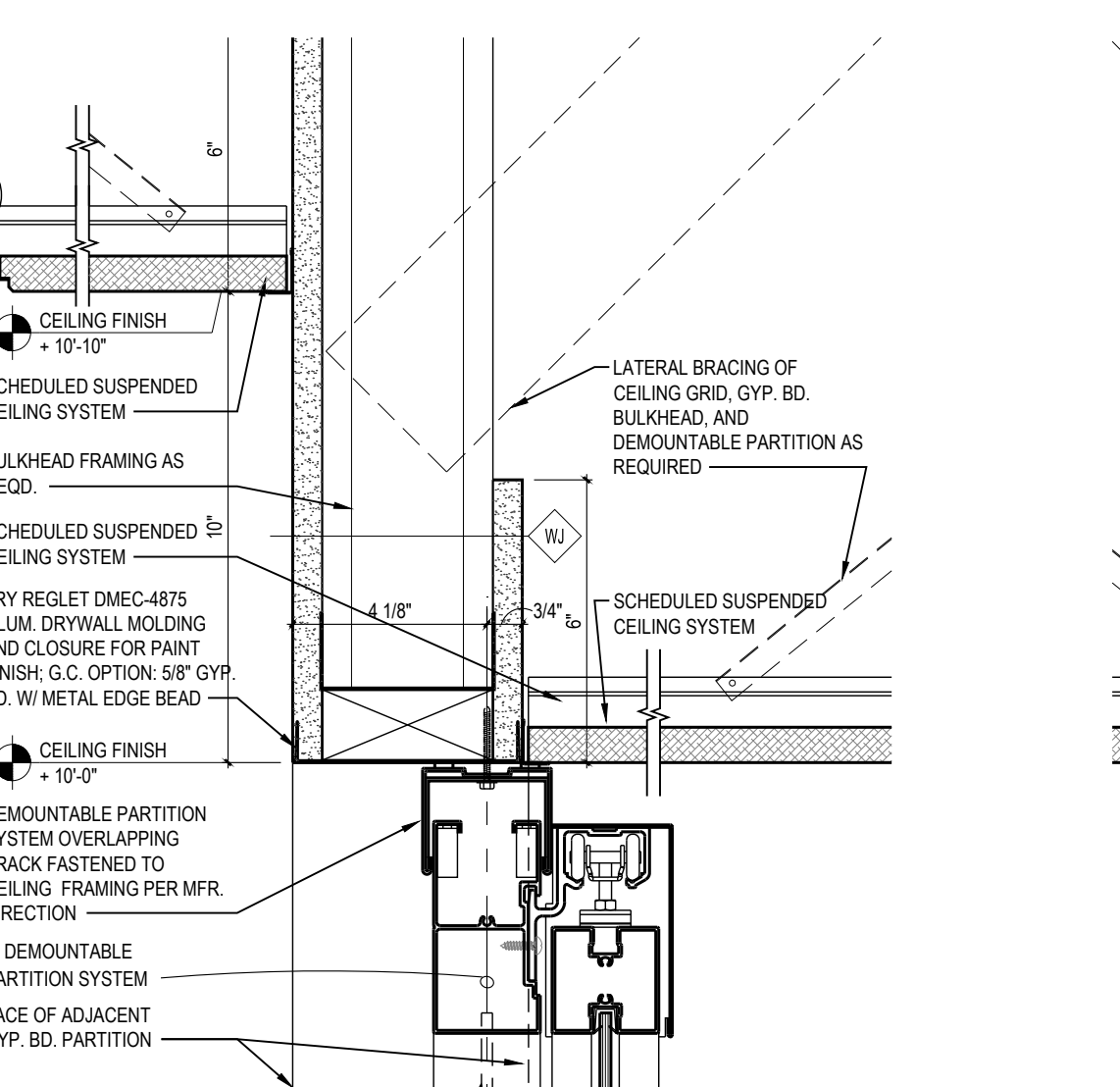
**7** LOBBY COVE CEILING TRANSITION  
A5.3.3 3" = 1'-0"



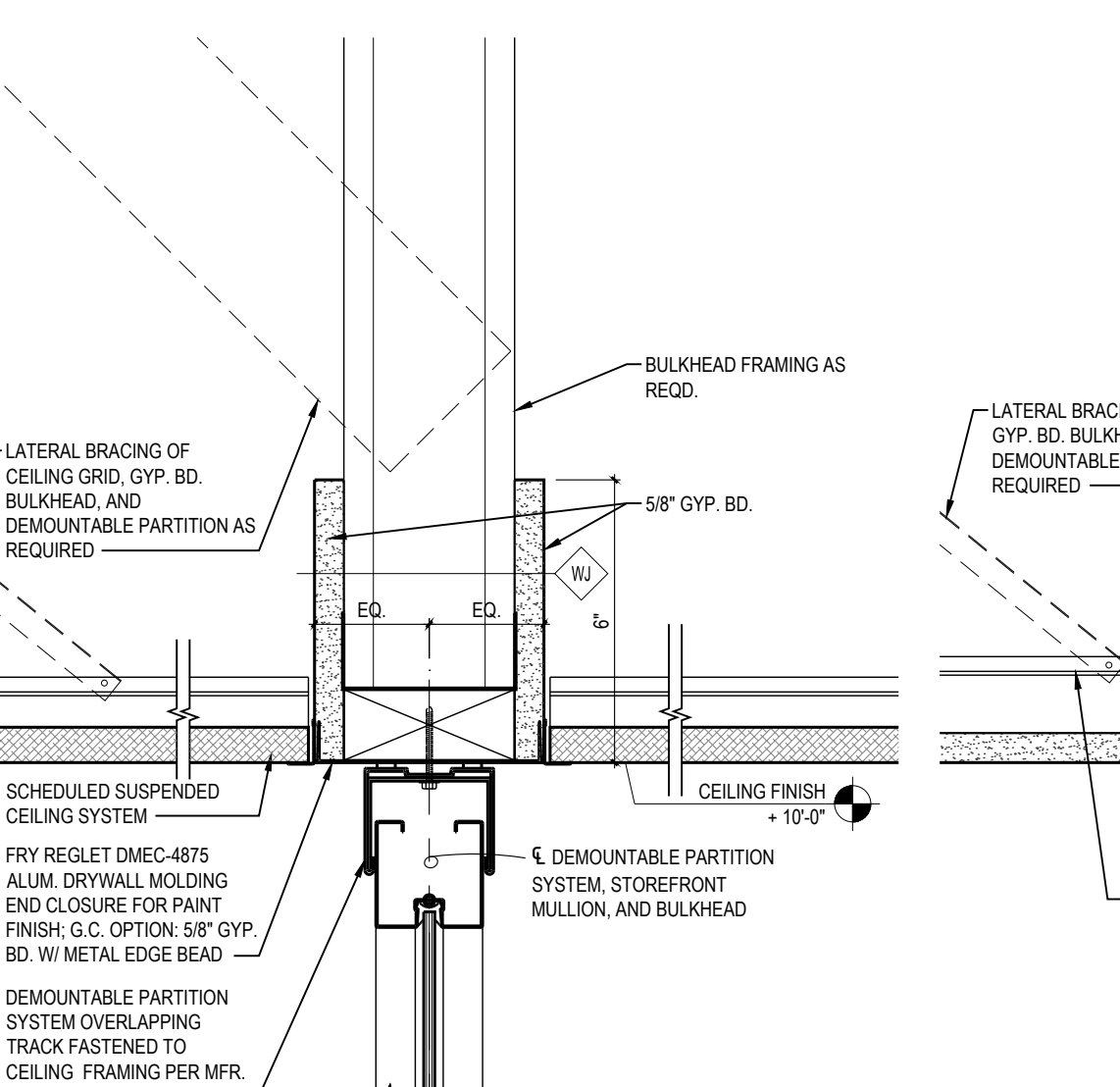
**6** TYP. OFFICE / CONFERENCE DEMOUNTABLE PARTITION  
A5.3.3 3" = 1'-0"



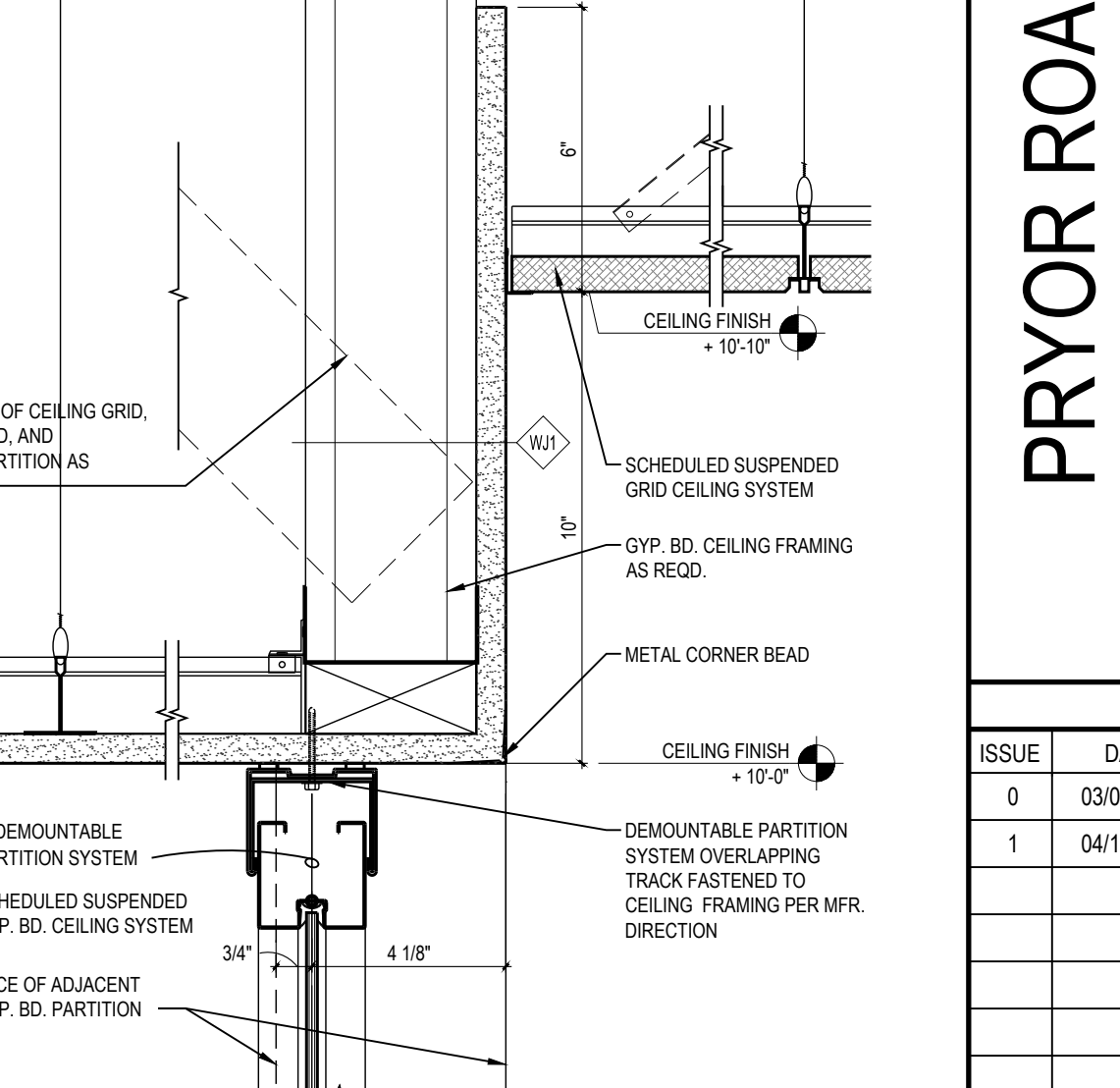
**5** DEMOUNTABLE PARTITION SLIDING DOOR TRACK  
A5.3.3 3" = 1'-0"



**3** TYP. OFFICE / LOBBY DOOR AT DEMOUNTABLE PARTITION  
A5.3.3 3" = 1'-0"



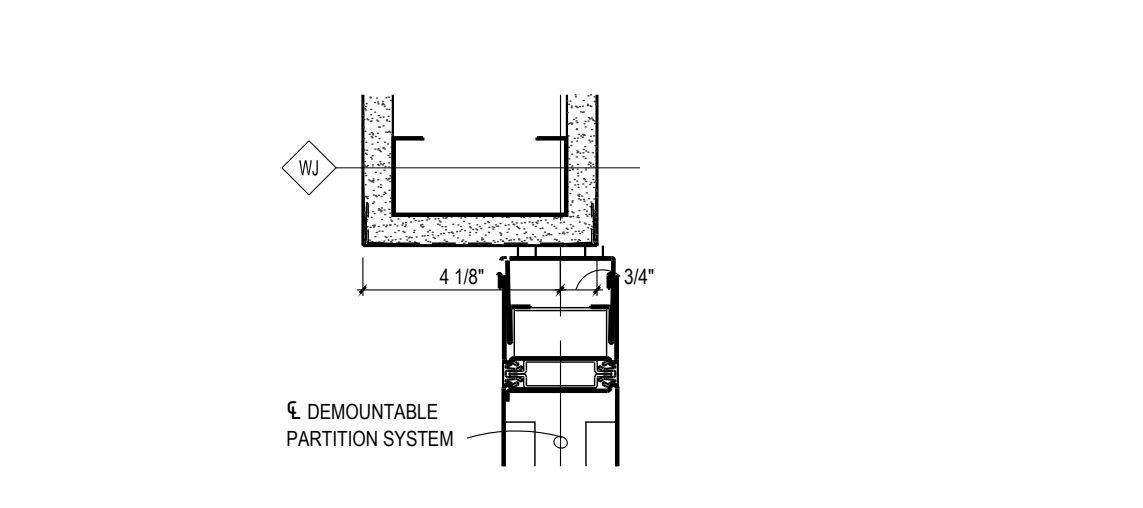
**2** TYP. OFFICE / OFFICE DEMOUNTABLE PARTITION  
A5.3.3 3" = 1'-0"



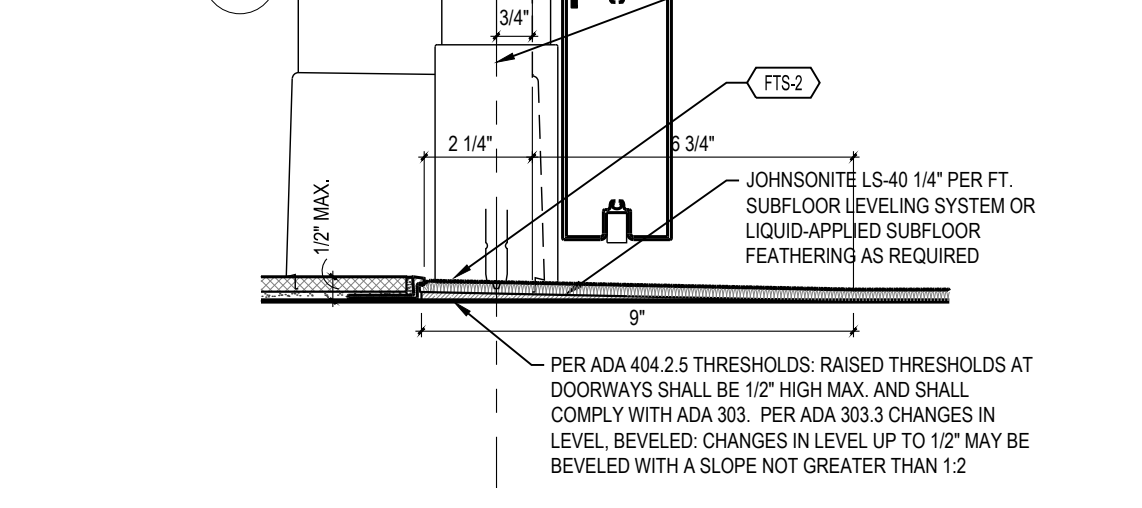
**1** TYP. CONFERENCE / LOBBY PARTITION  
A5.3.3 3" = 1'-0"



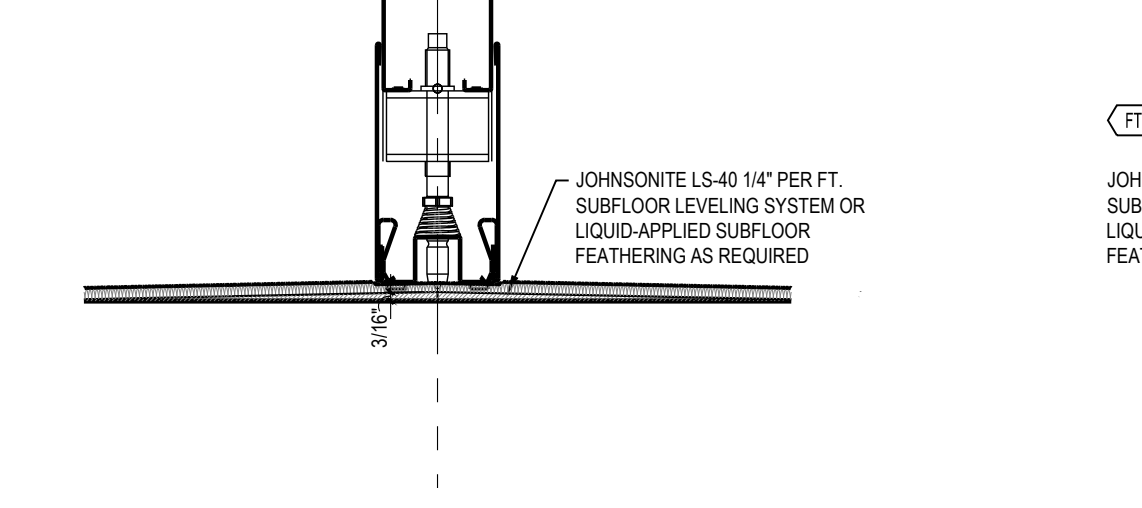
**4** TYP. GYPSUM JAMB AT DEMOUNTABLE PARTITION  
A5.3.3 3" = 1'-0"



**3** TYP. OFFICE / LOBBY DOOR AT DEMOUNTABLE PARTITION  
A5.3.3 3" = 1'-0"



**2** TYP. OFFICE / OFFICE DEMOUNTABLE PARTITION  
A5.3.3 3" = 1'-0"



**1** TYP. CONFERENCE / LOBBY PARTITION  
A5.3.3 3" = 1'-0"

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NUMBER A-2018040323  
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**PRYOR ROAD & LOWENSTEIN DRIVE**  
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**CHASE**

PRYOR & LOWENSTEIN  
PROTOTYPE VERSION 20.4

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02/04/2022  
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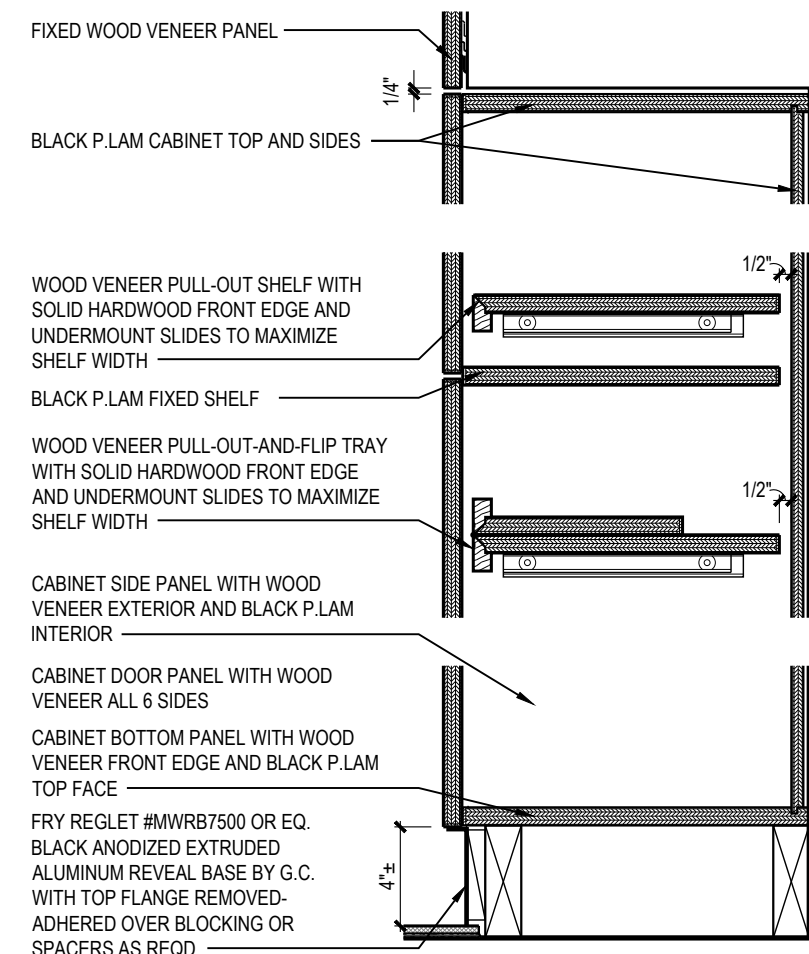
**A5.3.3**

**CUSTOM CABINET NOTES**

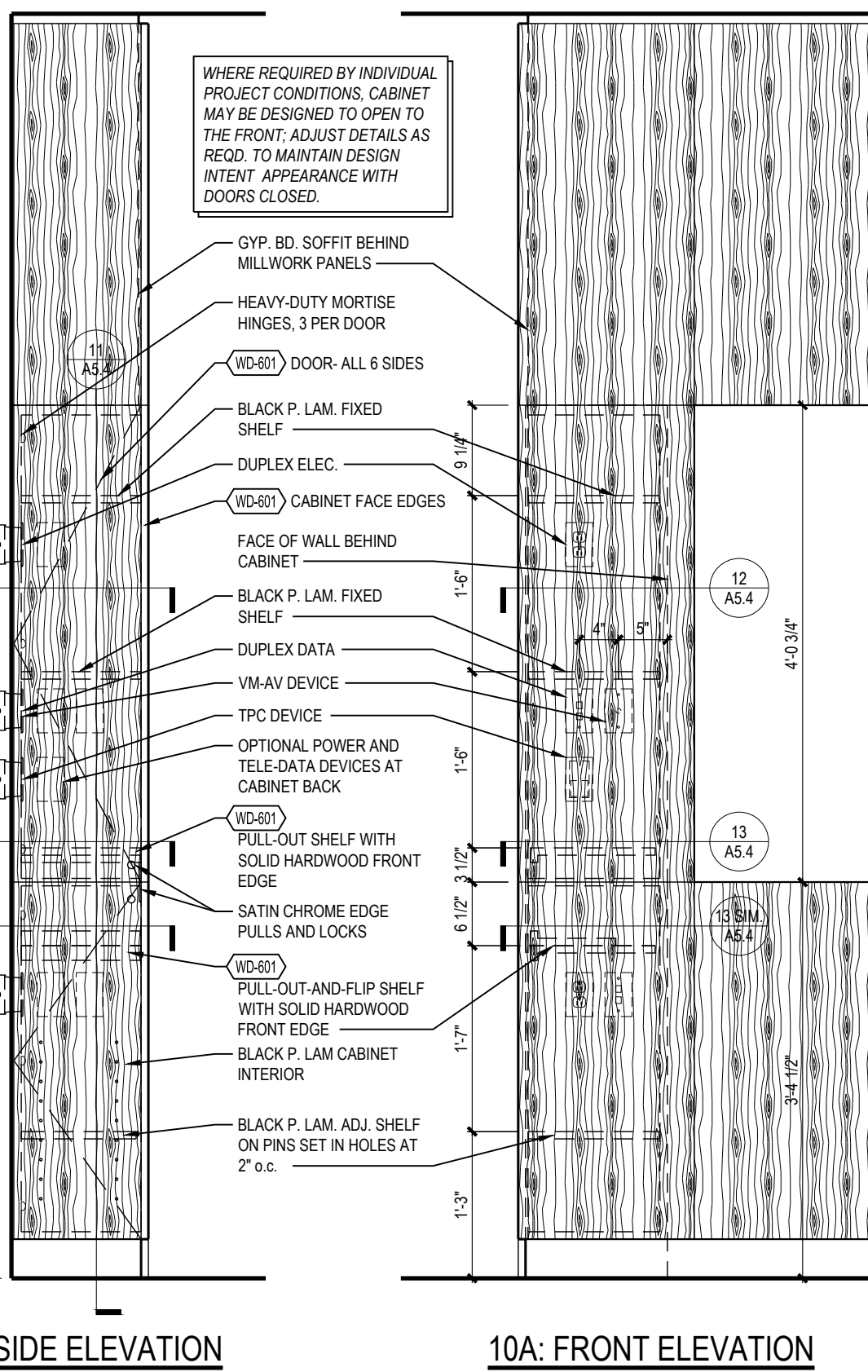
SUBMIT SHOP DRAWINGS AND MATERIALS TO ARCHITECT OF RECORD FOR REVIEW AND APPROVAL PRIOR TO FABRICATION

REFER TO INTERIOR FINISH MATERIALS SCHEDULE FOR LAMINATE SPECIFICATIONS

|        |  |
|--------|--|
| MIL-1  | CABINET TOP / BOTTOM / SIDE PANEL: 3/4" PLASTIC LAMINATE MDF ALL EXPOSED SURFACES - INTERIOR SURFACES WHITE MELAMINE   |
| MIL-2  | CABINET DOOR: 3/4" PLASTIC LAMINATE MDF ALL 6 FACES  |
| MIL-3  | ADJUSTABLE SHELF: 3/4" PLASTIC LAMINATE MDF ALL 6 FACES - PROVIDE FOUR 5MM NICKEL-PLATED SPOON-SHAPED PINS EACH SHELF-DRILL 5MM HOLES IN CABINET SIDE PANELS AS NOTED                                |
| MIL-4  | CABINET BACK: 1/4" PLASTIC LAMINATE MDF EXPOSED FACE   |
| MIL-5  | SURFACE-MOUNT ELECTRICAL / DATA RACEWAY  |
| MIL-6  | WIRE PULL  |
| MIL-7  | LIGHT VALENCE: 3/4" PLASTIC LAMINATE MDF EXPOSED FACES   |
| MIL-8  | CONTINUOUS WOOD CLEAT: SIZE AS REQUIRED-PAINT TO MATCH ADJACENT WALL SURFACE   |
| MIL-9  | WOOD BLOCKING AS REQUIRED  |
| MIL-10 | COUNTER TOP: REFER TO INTERIOR FINISH MATERIALS SCHEDULE   |
| MIL-11 | COUNTER SPLASH: MATCH COUNTER TOP MATERIAL   |
| MIL-12 | COUNTER APRON: MATCH COUNTER TOP MATERIAL  |
| MIL-13 | DRAWER BACK / SIDE / SUB-FRONT: 1/2" WHITE MELAMINE MDF  |
| MIL-14 | DRAWER BOTTOM: 1/4" WHITE MELAMINE MDF   |
| MIL-15 | DRAWER SLIDE: FULL-EXTENSION BALL-BEARING  |
| MIL-16 | COUNTER EDGE SUPPORT: CONT. STEEL ANGLE BOLTED TO SOLID WOOD BLOCKING CONCEALED WITHIN WALLS- RE-PRIME FOLLOWING INSTALLATION SCHEDULED LIGHT FIXTURE  |
| MIL-17 | SCHEDULED LIGHT FIXTURE  |
| MIL-18 | TOE-KICK: 1/2" MINIMUM PLASTIC LAMINATE MDF- COLOR AND PATTERN TO MATCH CABINET PANELS   |
| MIL-19 | ELECTRICAL / DATA ROUGH-IN AND COVER PLATE   |
| MIL-20 | SINK APRON: 3/4" PLASTIC LAMINATE MDF  |
| MIL-21 | COUNTER EQUIPMENT SUPPORT: 1 1/2" x 1 1/2" x 1/4" STEEL ANGLE BOLTED TO CABINET BACK, SIDES AND APRON - PRIME AND PAINT TO MATCH CABINET COLOR   |
| MIL-22 | GROMMET: MOCKET #BRKIT 12" BLACK LINEAR BRUSH GROMMET  |
| MIL-23 | GROMMET: MOCKET #BG 1 1/2" ROUND BLACK PLASTIC GROMMET   |
| MIL-24 | COUNTER SUPPORT: 3/4" THICK PLASTIC LAMINATE MDF PANEL MATCHING COUNTER DEPTH- QUANTITY AND POSITIONS AS REQUIRED TO ENSURE MAX. COUNTER DEFLECTION OF L/768 (1/8" OVER 8')                          |
| MIL-25 | CABINET TOP / BOTTOM / SIDE / DOOR PANEL: 3/4" PLASTIC LAMINATE MDF ALL SURFACES EXPOSED TO VIEW, INCLUDING INTERIOR- REFER TO INTERIOR FINISH SCHEDULE FOR LAMINATE SPECIFICATION                   |
| MIL-26 | SOLID SURFACE COUNTER: 2" BUILT-UP FRONT EDGES, OPENINGS, AND VERTICAL PANELS, ALL CONTACT EDGES EASED-REFER TO INTERIOR FINISH SCHEDULE FOR MATERIAL SPECIFICATION                                  |
| MIL-27 | REFUSE CAN TRAY, 36-QT PLASTIC CAN, AND DRAWER GLIDES ATTACHED TO CABINET BOTTOM AND DRAWER PANELS   |
| MIL-28 | OPEN COUNTER SUPPORT BRACKET: CENTERLINE BRACKETS #CSA-004-20, COLOR WHITE- 24" MAX. O.C. CUT MINIMAL OPENING IN WALL FINISH AS REQD. LAG-SCREW TO WALL STUDS OR BLOCKING- PATCH WALL FINISH OPENING |
| MIL-29 | ELECTRICAL / DATA OUTLETS: COORD. WITH ELECTRICIAN TO PROVIDE MUD RING OF SUFFICIENT DEPTH TO REACH CABINET BACK- INSTALL OVER PLATES OVER CABINET BACK  |
| MIL-30 | CONTINUOUS COUNTER UNDERLAYMENT: 3/4" PLYWOOD- PROVIDE WHITE PLASTIC LAMINATE FACE AT UNDERSIDE OF OPEN COUNTER SECTIONS   |
| MIL-31 | STOP: 1/2" x 3/4" EASED-EDGE PAINT GRADE-WOOD  |
| MIL-32 | CABINET PULL: AMEROCK #BP55364G10 'RIVA' IN SATIN NICKEL, 3" CTC   |
| MIL-33 | HARDWOOD FIN: 1" x 3 1/2" AND 2" x 9 1/4" SOLID AND VENEER NATURAL RED OAK FOR STAIN AND CLEAR FINISH- REFER TO FINISH MATERIALS SCHEDULE- MITER CORNERS OF ASSEMBLIES TO CONCEAL JOINTS             |
| MIL-34 | PAINTED CABINET BACK: 1/2" MDF FOR PAINT FINISH- REFER TO FINISH MATERIAL SCHEDULE FOR PAINT SPECIFICATIONS  |
| MIL-35 | FIN PLINTH: SOLID RED OAK FOR STAIN AND CLEAR FINISH PER MATERIALS FINISH SCHEDULE- APPLY FACE BOARD WITH MINIMAL FINISH NAILS TO FACILITATE REPLACEMENT   |
| MIL-36 | SACRIFICIAL BASE: 1/2" x 4" SOLID RED OAK FOR STAIN AND CLEAR FINISH- APPLY WITH MINIMAL FINISH NAILS TO FACILITATE REPLACEMENT  |
| MIL-37 | REFUSE OPENING: 4" DIAM. HOLE WITH 2" BUILT-UP EASED EDGE  |
| MIL-38 | FACE-FRAME CABINET SIDE PANEL: EXTENDED 3/4" PLASTIC LAMINATE MDF CABINET SIDE PANEL AND FACE ALIGNED WITH HARDWOOD FIN ABOVE  |
| MIL-39 | FIXED DRAWER SHELF: PLASTIC LAMINATE   |

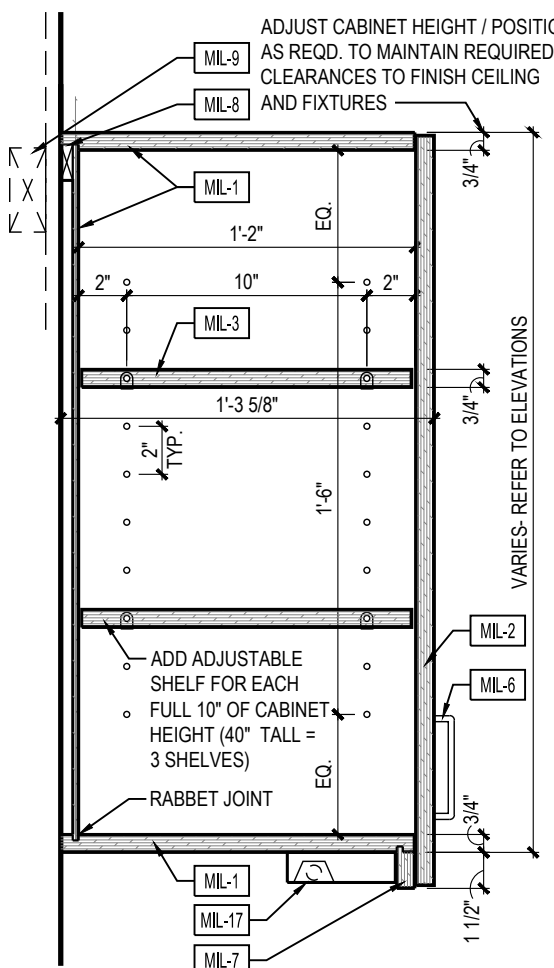


**11 AV CABINET**  
A5.4 1 1/2" - 1'-0"

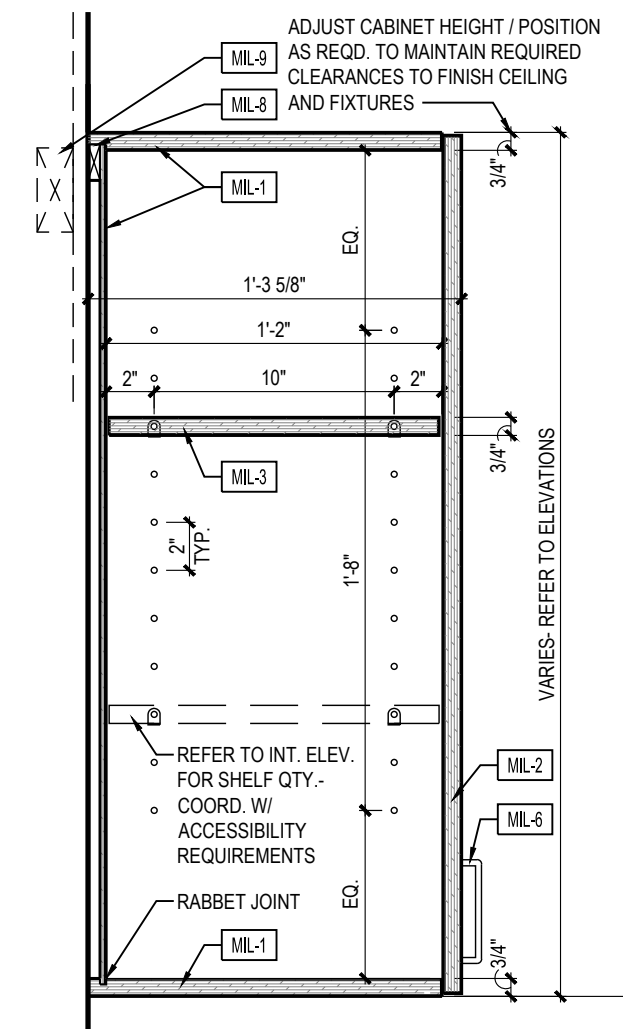


10B: SIDE ELEVATION 10A: FRONT ELEVATION

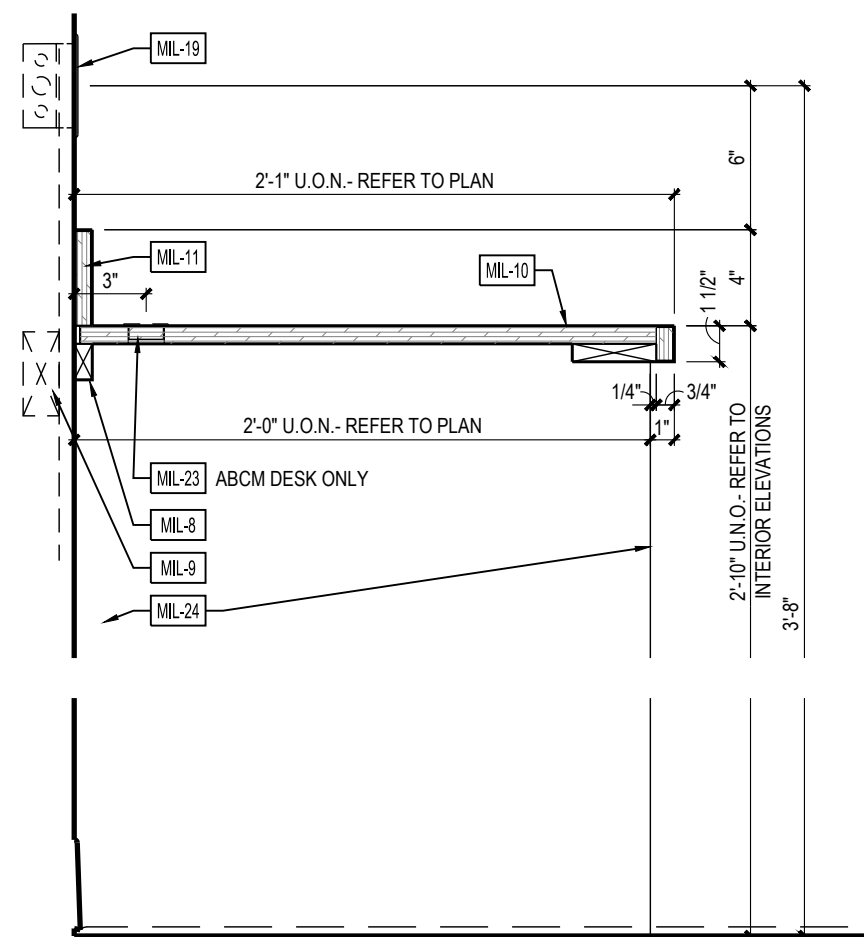
**10 AV CABINET**  
A5.4 1 1/2" - 1'-0"



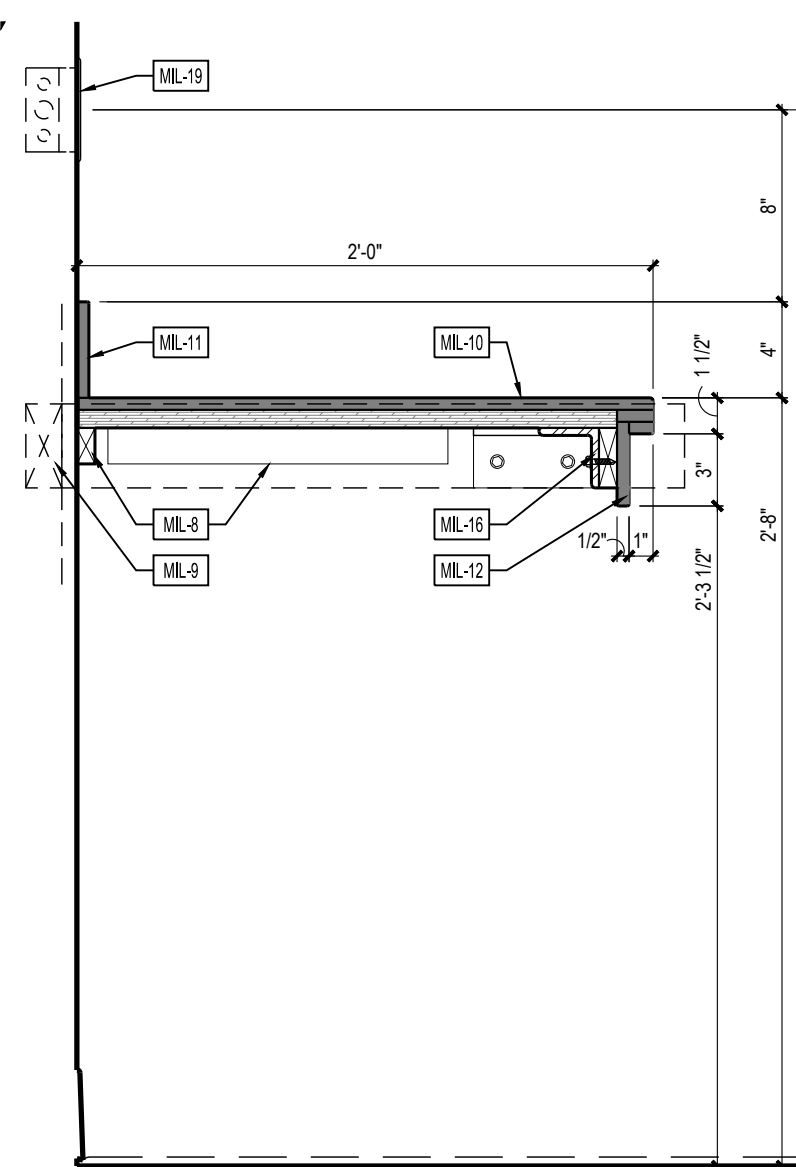
**9 WALL CABINET W/ DOORS AND LIGHT FIXTURE**  
A5.4 1 1/2" - 1'-0"



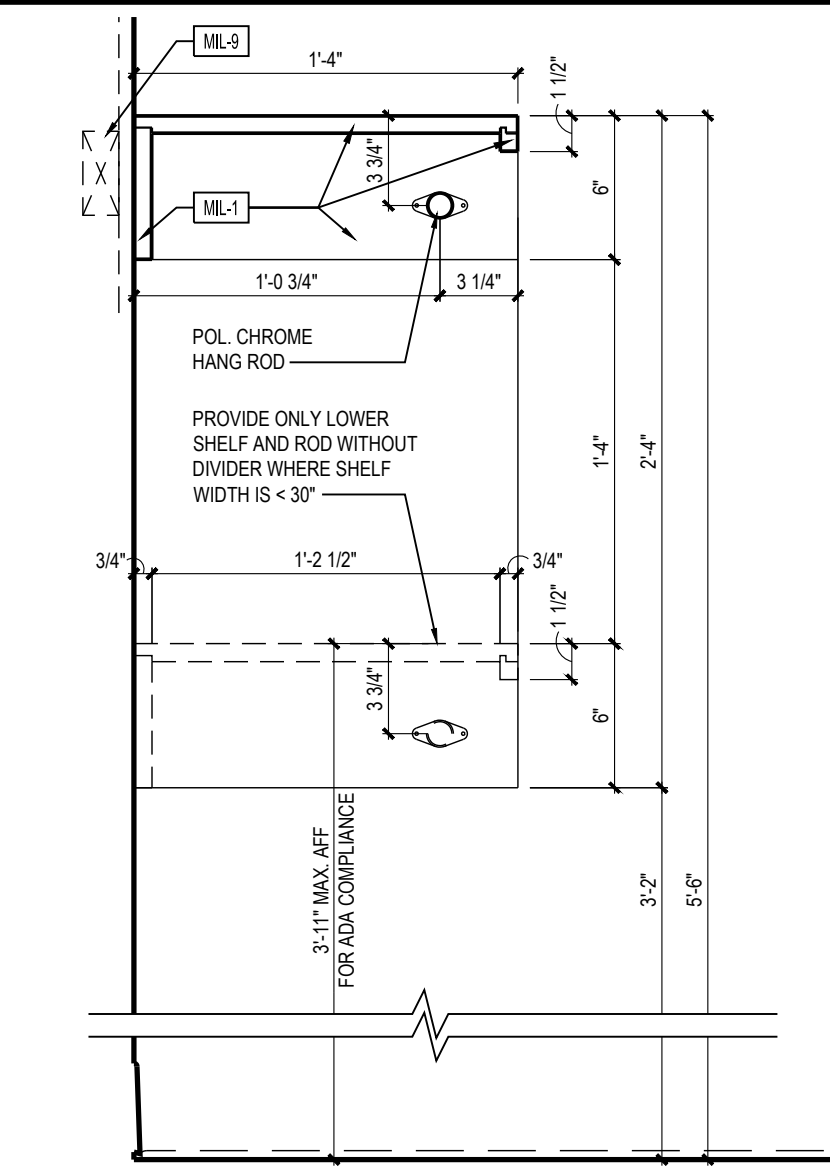
**8 WALL CABINET W/ DOORS**  
A5.4 1 1/2" - 1'-0"



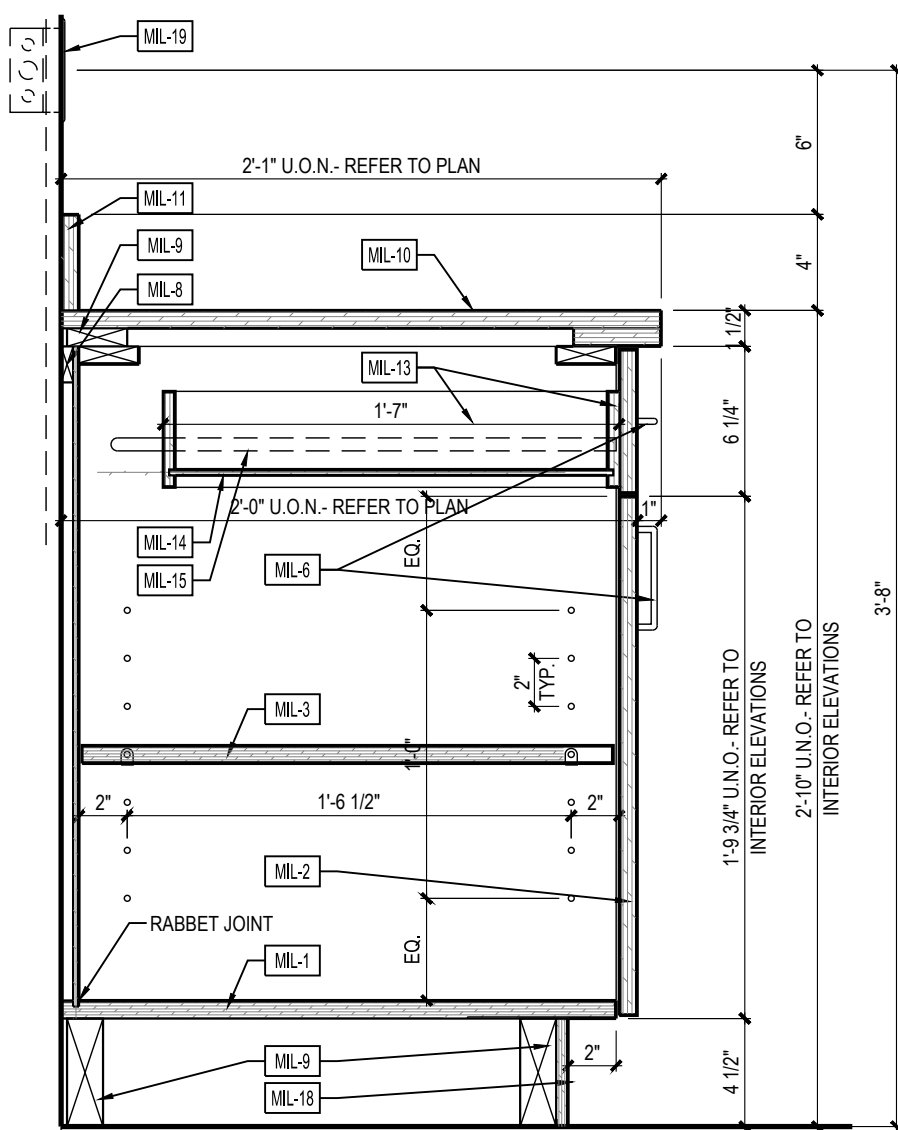
**5 OPEN LAMINATE COUNTER**  
A5.4 1 1/2" - 1'-0"



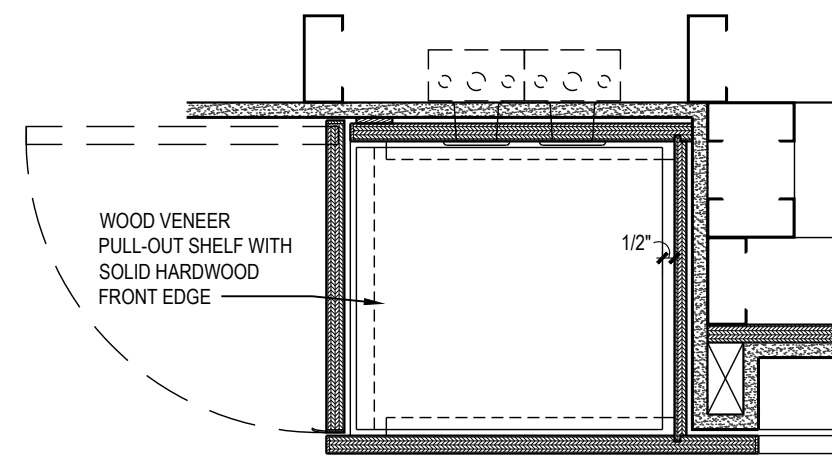
**4 SDB VIEWING ROOM COUNTER**  
A5.4 1 1/2" - 1'-0"



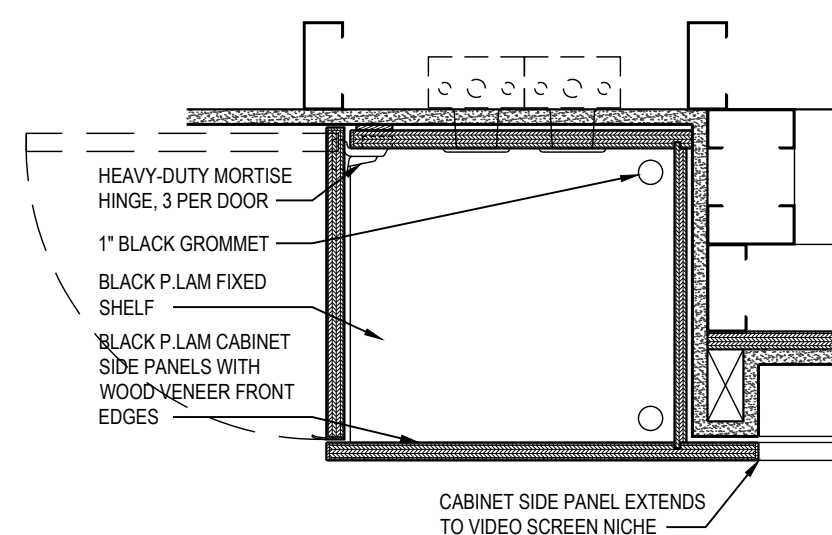
**6 HANG ROD AND SHELF**  
A5.4 1 1/2" - 1'-0"



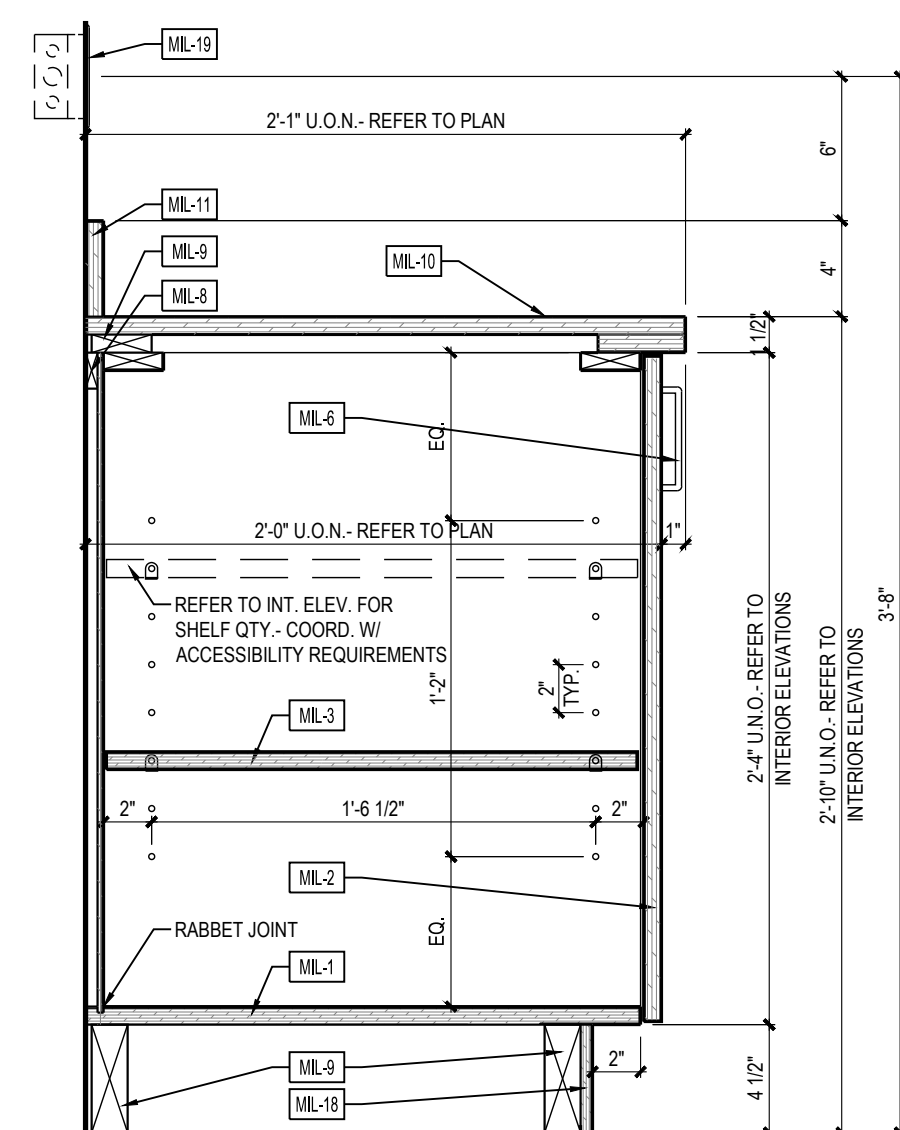
**3 DOOR / DRAWER BASE CABINET**  
A5.4 1 1/2" - 1'-0"



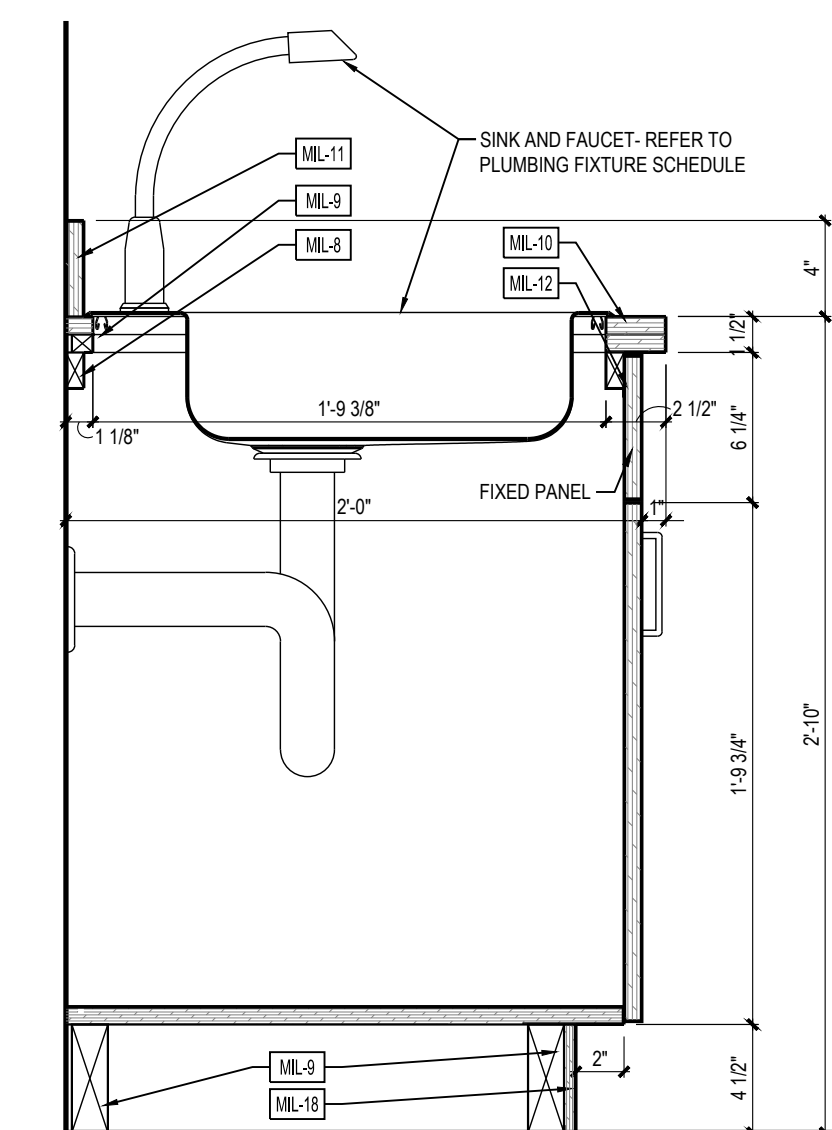
**13 AV CABINET PULL-OUT TRAY**  
A5.4 1 1/2" - 1'-0"



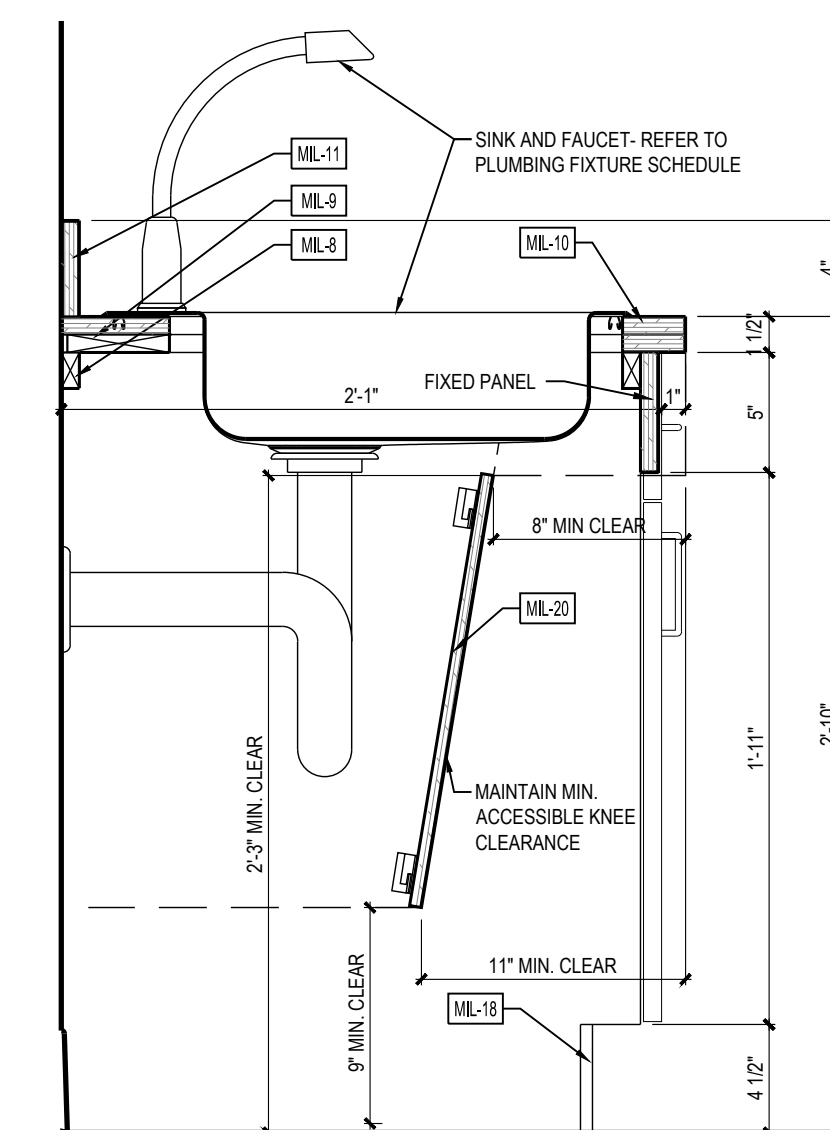
**12 AV CABINET FIXED SHELF**  
A5.4 1 1/2" - 1'-0"



**2 DOOR BASE CABINET**  
A5.4 1 1/2" - 1'-0"



**1 SINK BASE CABINET**  
A5.4 1 1/2" - 1'-0"



**FRONT-APPROACH SINK BASE FOR USE BY EXCEPTION ONLY TO COMPLY WITH SPECIFIC MUNICIPAL INTERPRETATIONS**

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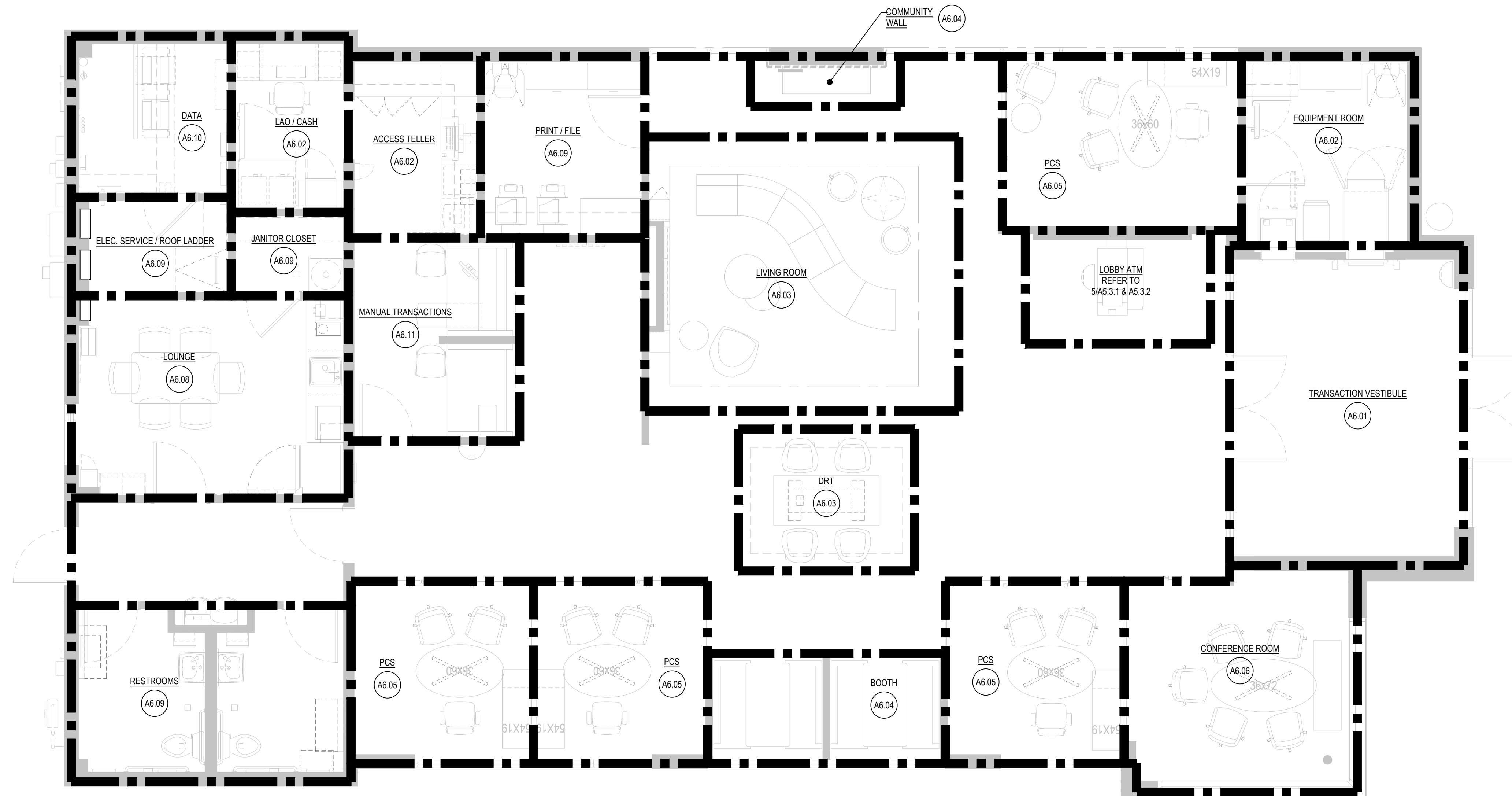
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PRYOR & LOWENSTEIN  
PROTOTYPE VERSION 20.4

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DETAILS:  
CABINETRY

02/04/2022  
SHEET

**A5.4**



1 PROGRAMMATIC KEY PLAN  
 A6.00 1/4" = 1'-0"

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PRYOR & LOWENSTEIN  
 PROTOTYPE VERSION 20.4

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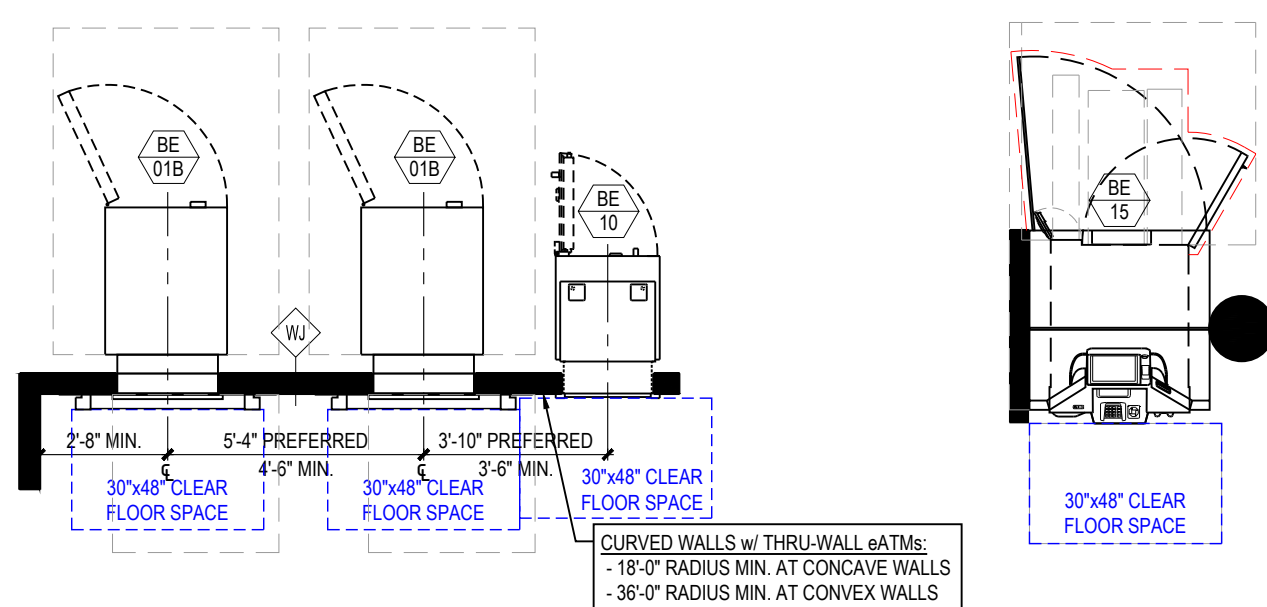
PROGRAMMATIC ELEMENT  
 KEY PLAN

02/04/2022

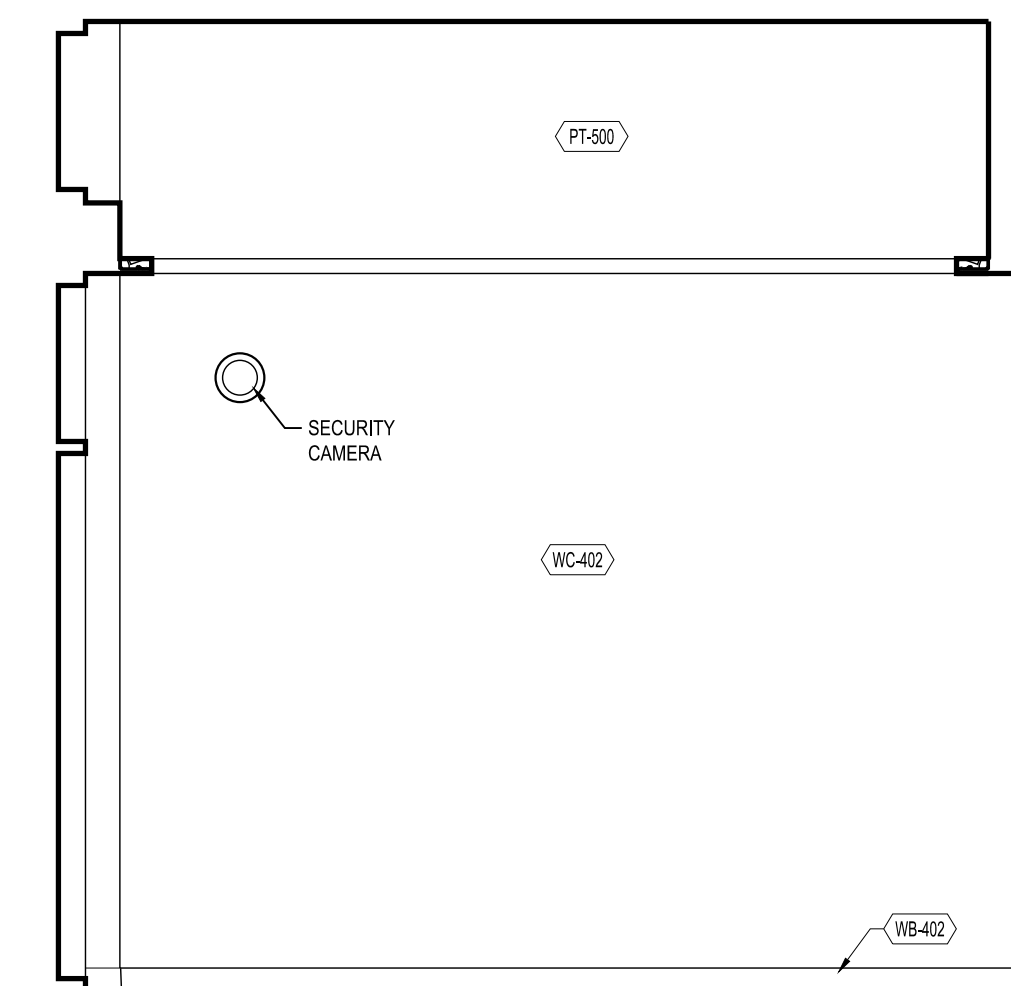
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**A6.00**

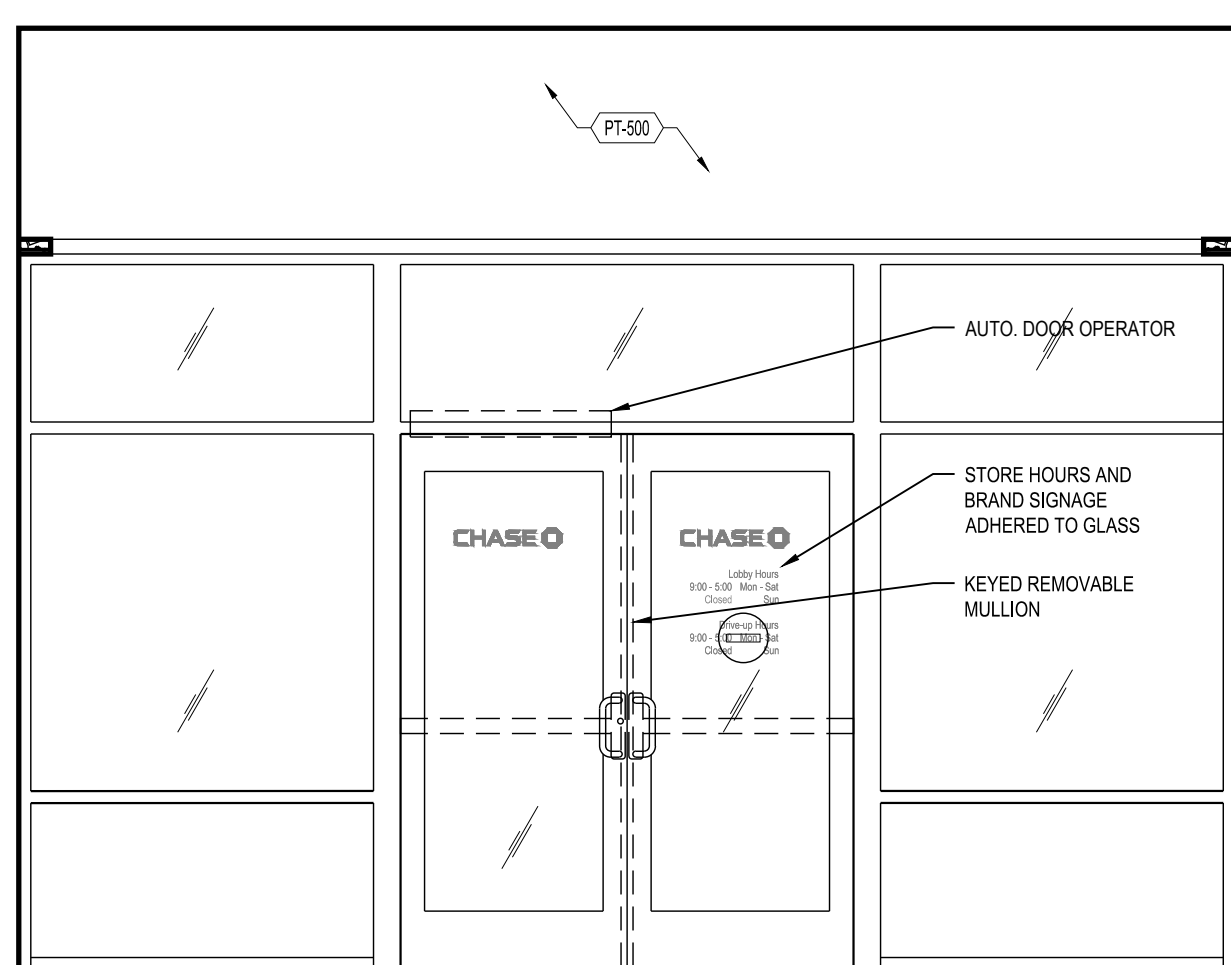




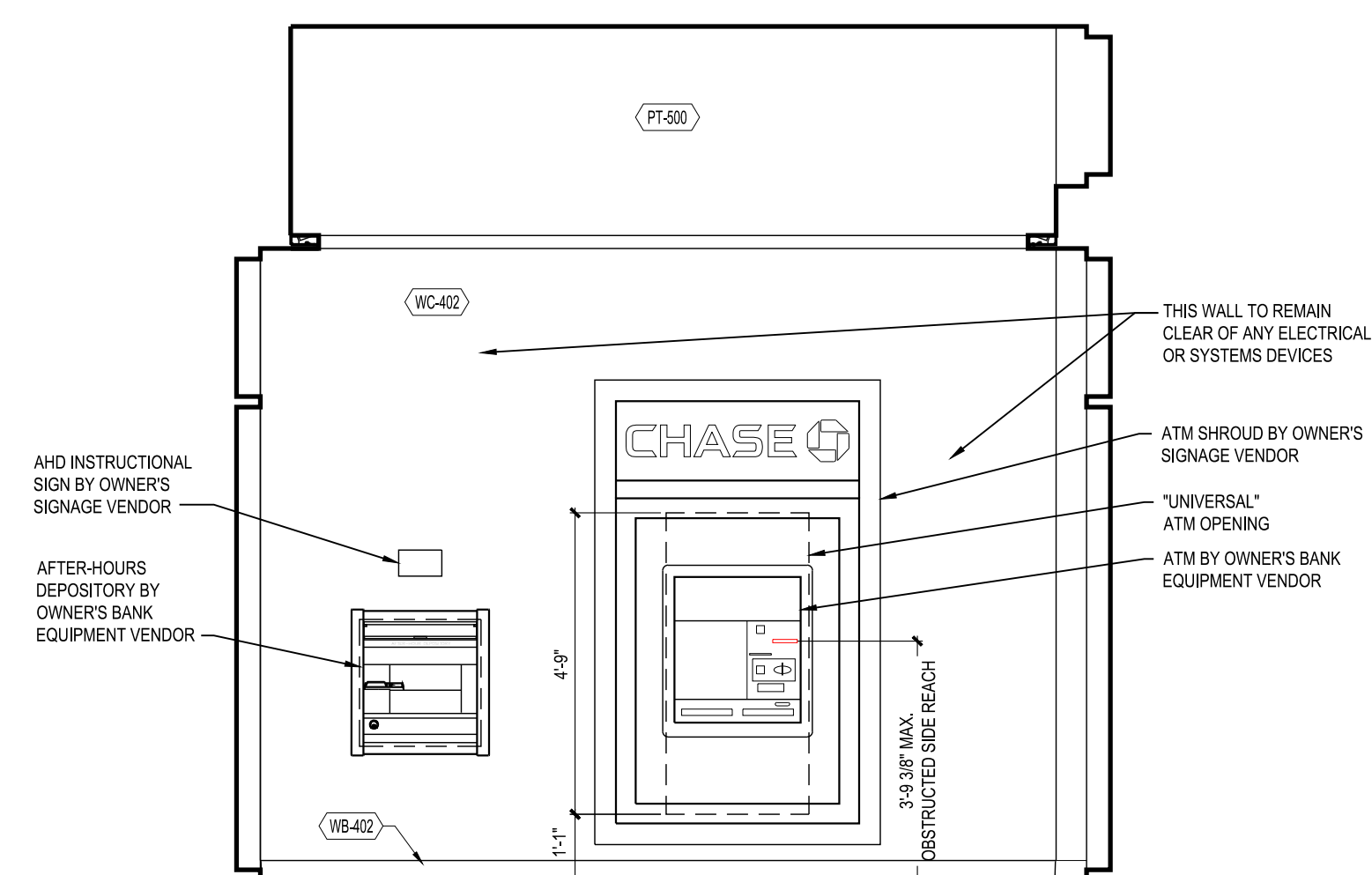
8 BANK EQUIP. CONFIGURATIONS  
A6.01 1/4" = 1'-0"



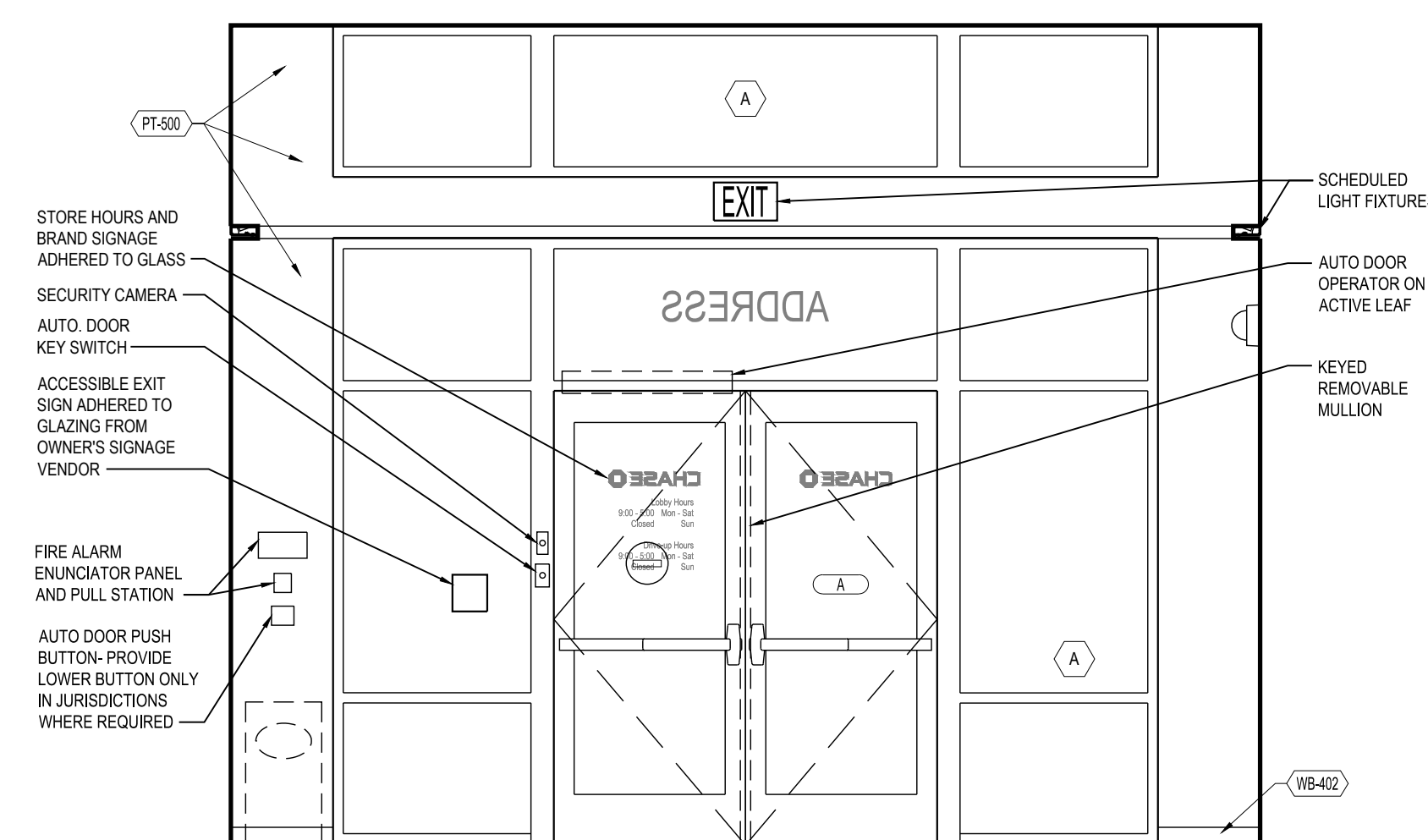
7 ELEVATION- FACING CONFERENCE  
A6.01 3/8" = 1'-0"



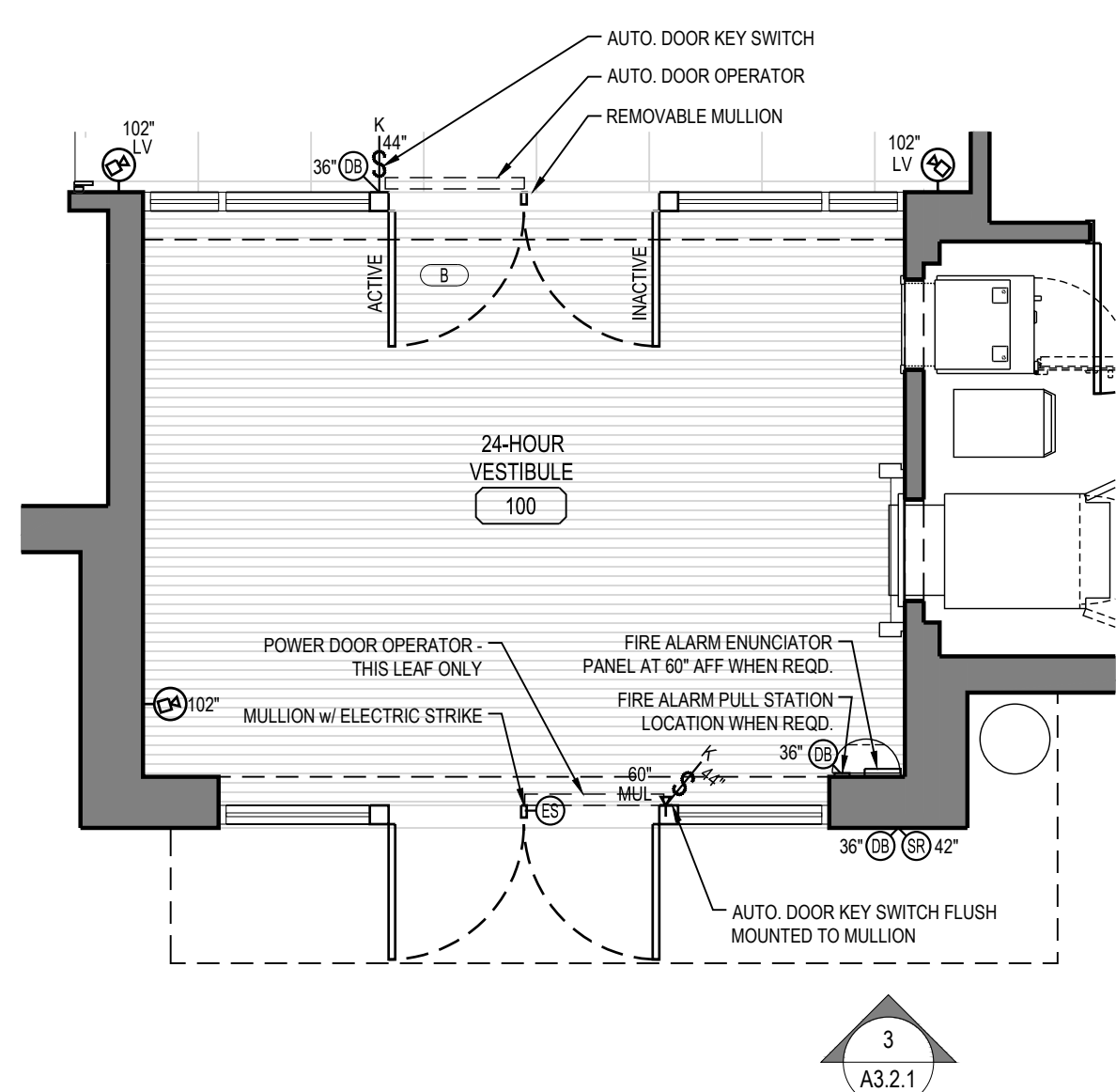
6 ELEVATION- FACING LOBBY  
A6.01 3/8" = 1'-0"



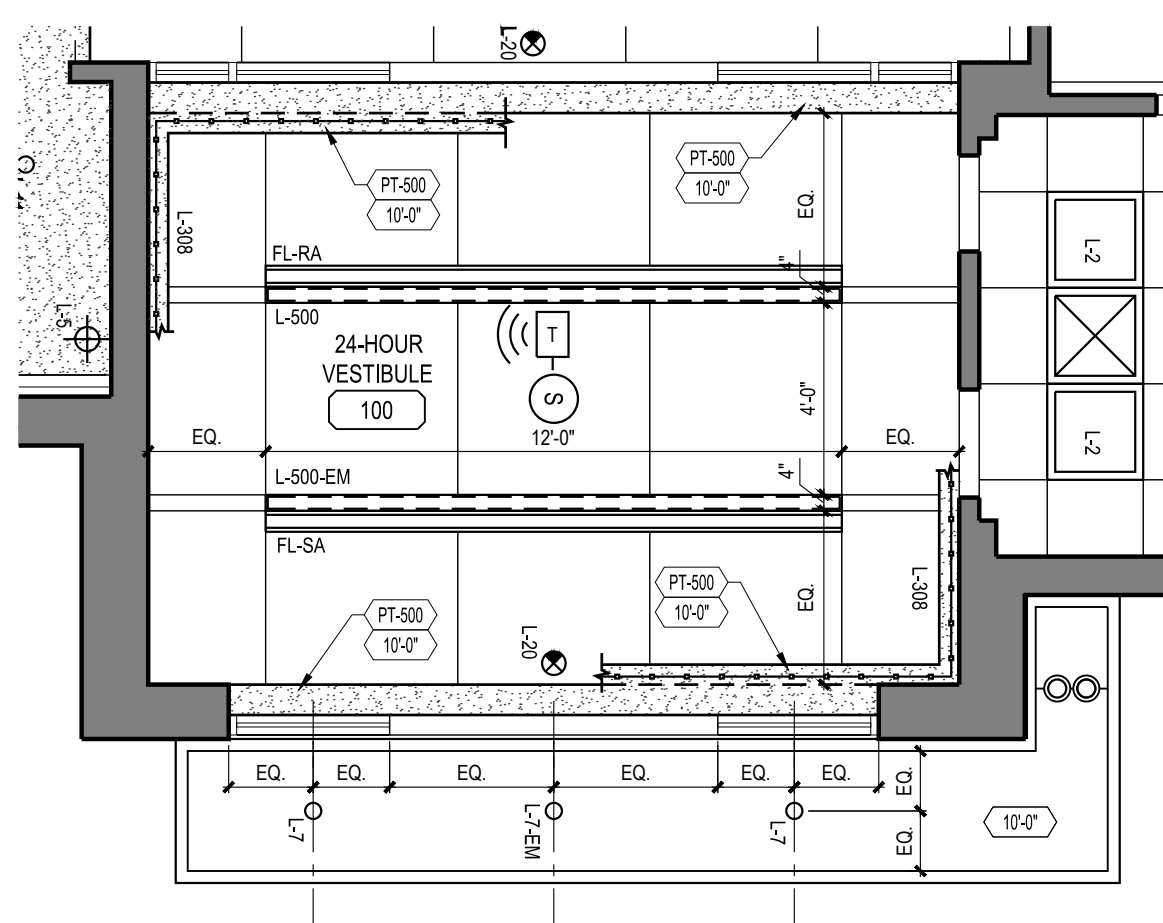
5 ELEVATION- FACING ATM  
A6.01 3/8" = 1'-0"



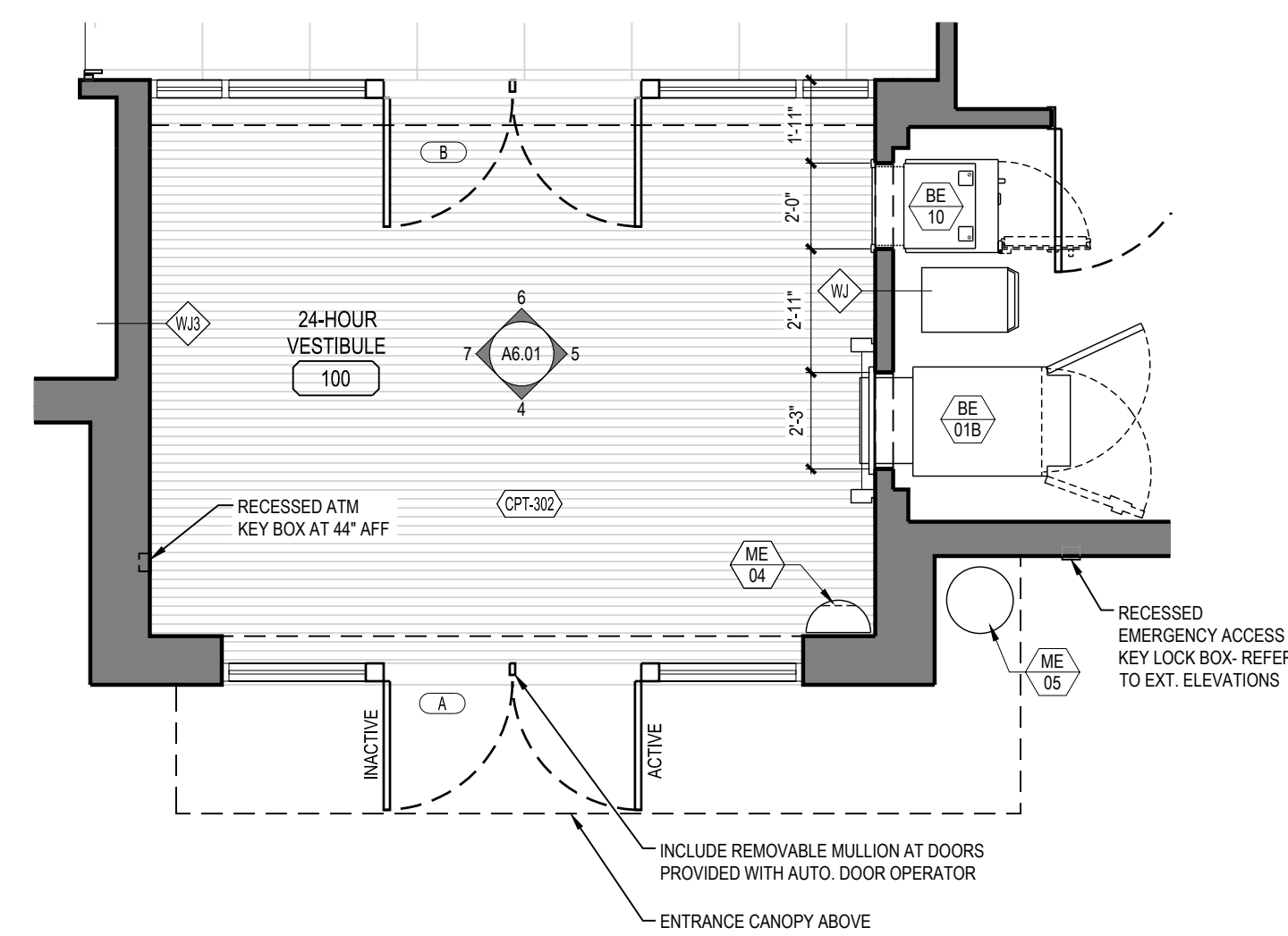
4 ELEV. - FACING ENTRANCE  
A6.01 3/8" = 1'-0"



3 ELEC./DATA/SECURITY PLAN  
A6.01 1/4" = 1'-0"



2 REFLECTED CEILING PLAN  
A6.01 1/4" = 1'-0"



1 FLOOR PLAN  
A6.01 1/4" = 1'-0"

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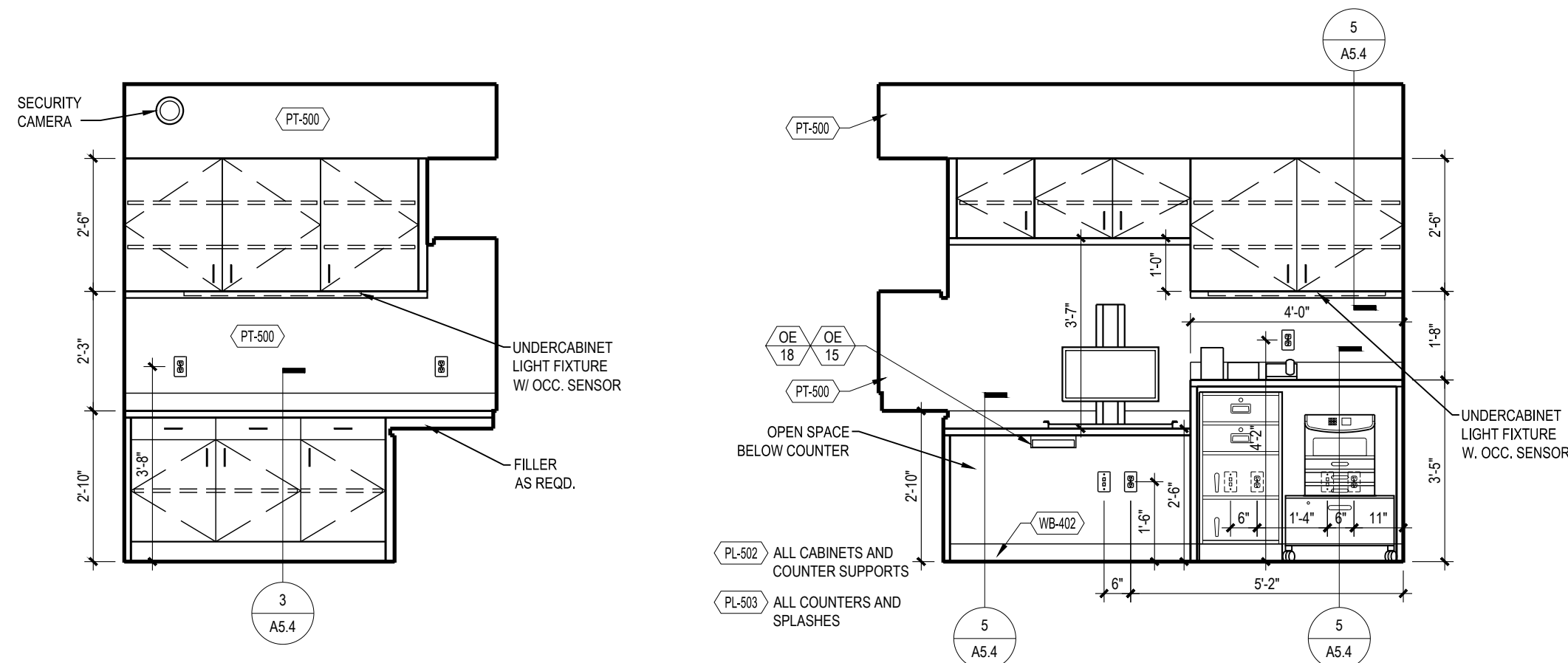
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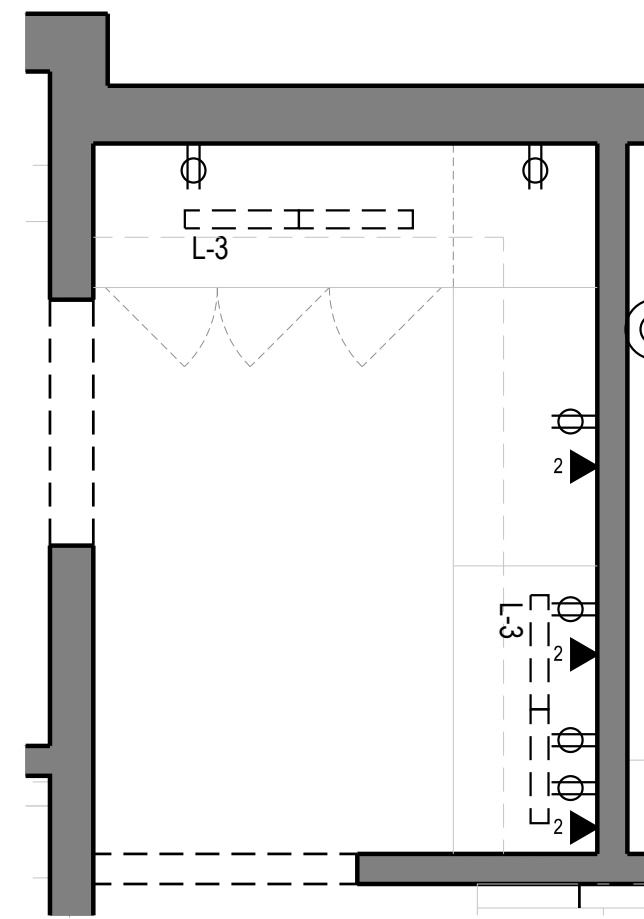
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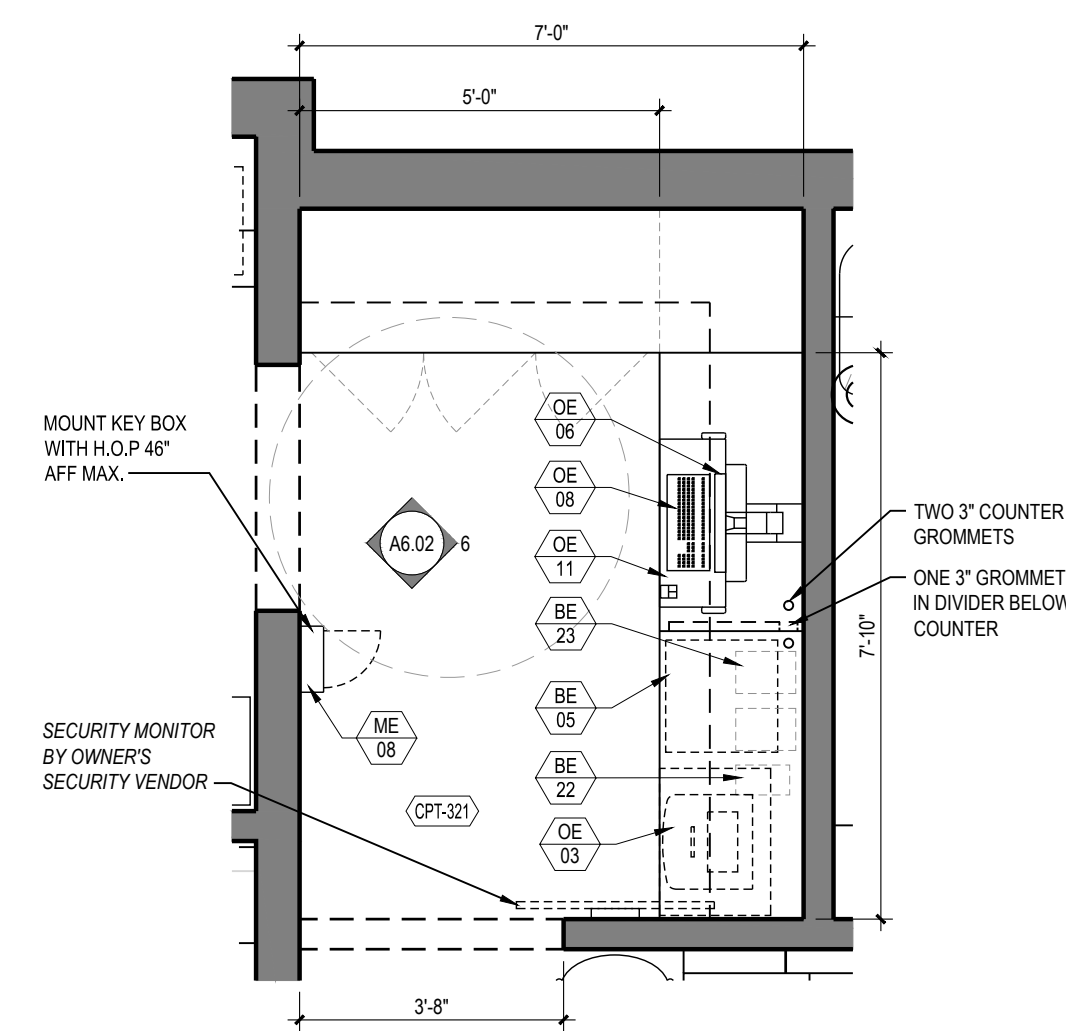


**7**  
A6.02  
ACCESS  
TELLER ELEVATION  
3/8" = 1'-0"

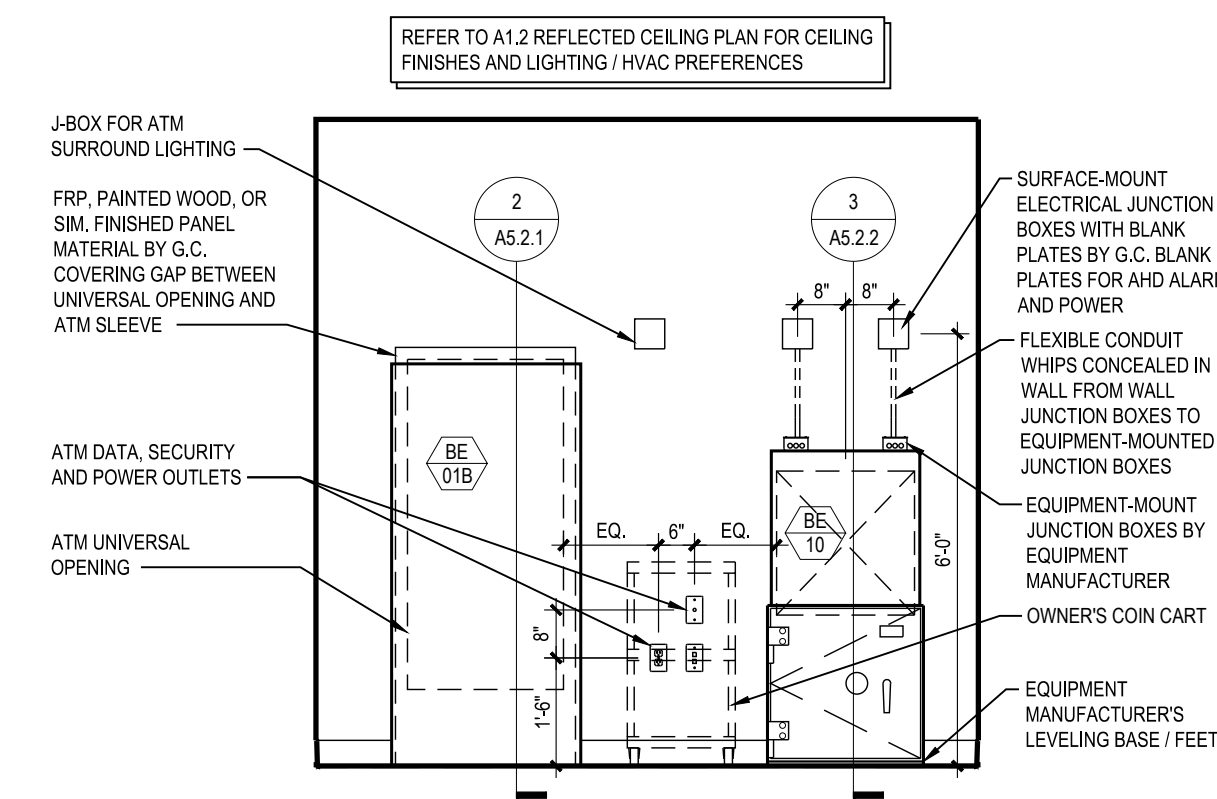
**6**  
A6.02  
ACCESS  
TELLER ELEVATION  
3/8" = 1'-0"



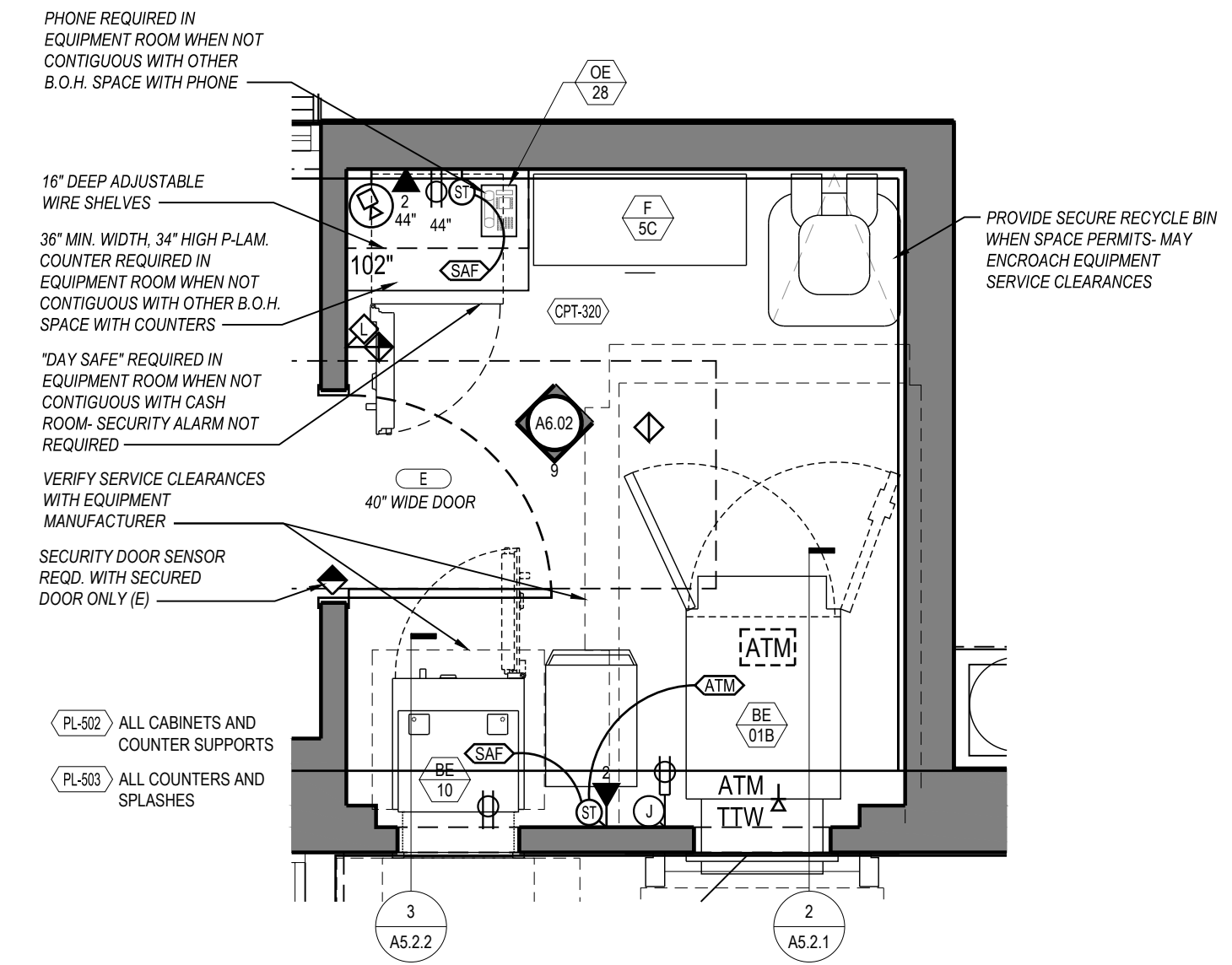
**5**  
A6.02  
ACCESS TELLER SYSTEMS PLAN  
3/8" = 1'-0"



**4**  
A6.02  
ACCESS TELLER FLOOR PLAN  
3/8" = 1'-0"

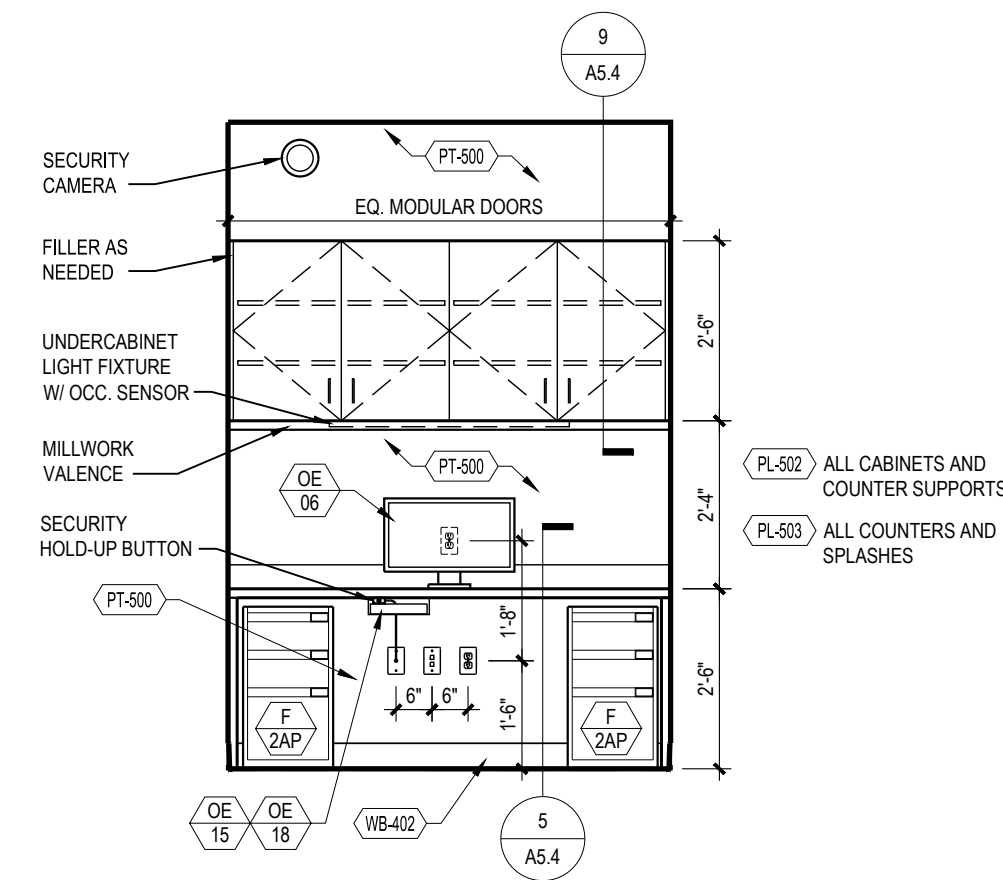


**9**  
A6.02  
EQUIPMENT WALL  
ELEVATION  
3/8" = 1'-0"

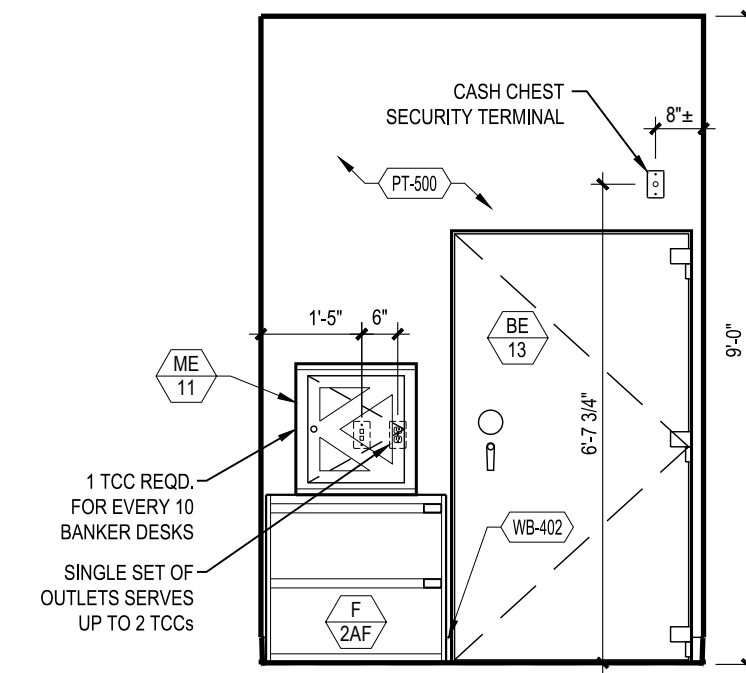


**8**  
A6.02  
EQUIPMENT AREA  
FLOOR PLAN  
3/8" = 1'-0"

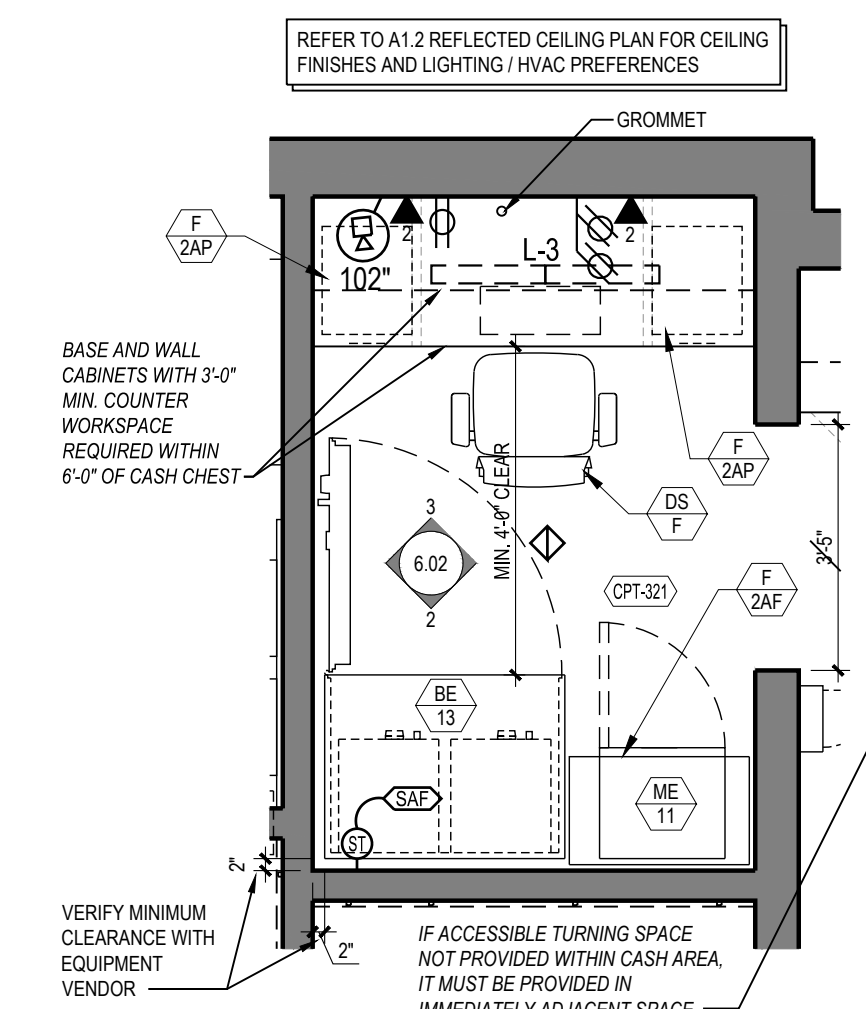
ACCESS TELLER



**3**  
A6.02  
LAO MILLWORK WALL  
ELEVATION  
3/8" = 1'-0"



**2**  
A6.02  
CASH CHEST WALL  
ELEVATION  
3/8" = 1'-0"



**1**  
A6.02  
LAO / CASH ROOM  
FLOOR PLAN  
3/8" = 1'-0"

TRANSACTION EQUIPMENT ROOM

LAO / CASH ROOM

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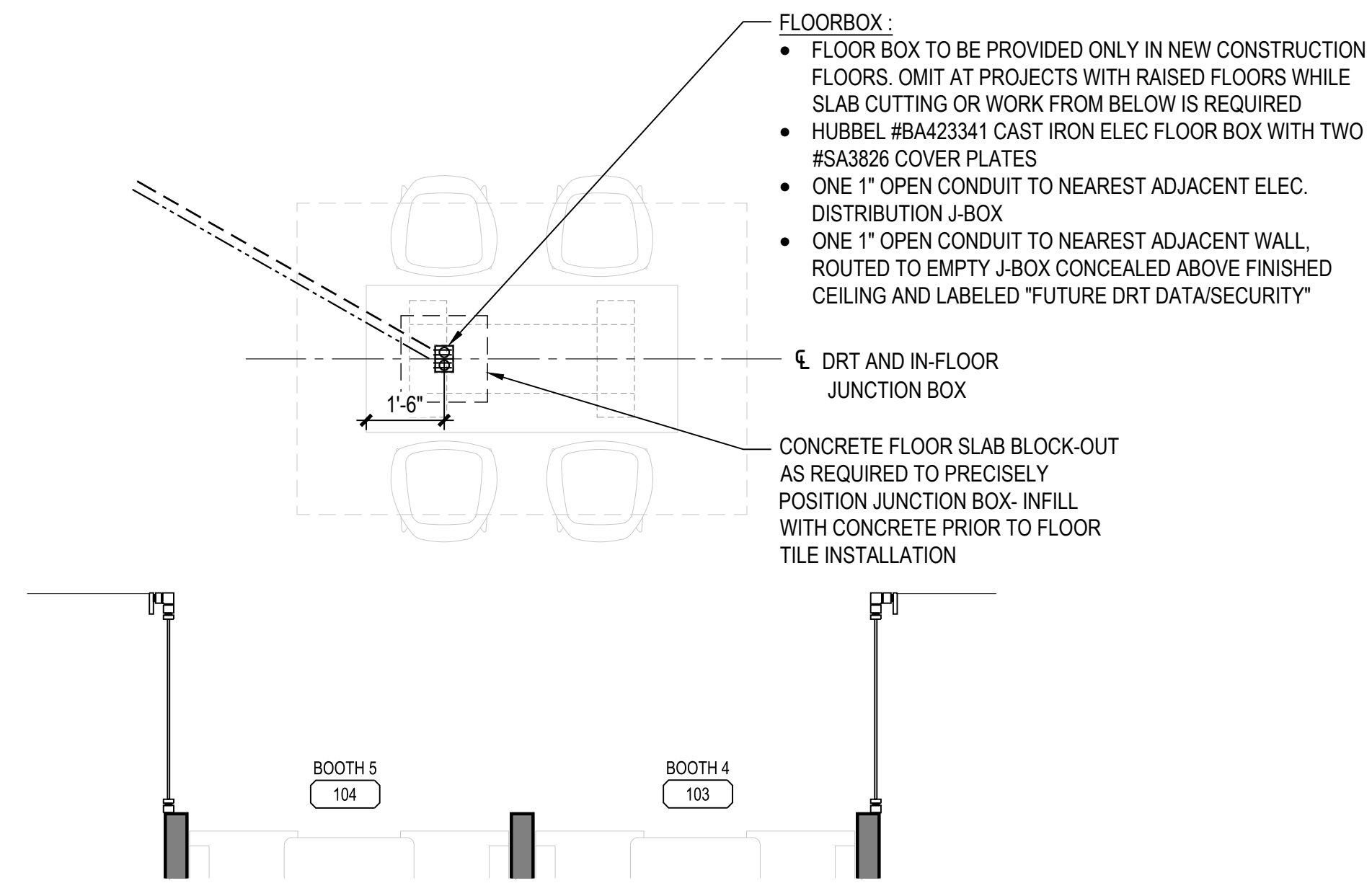
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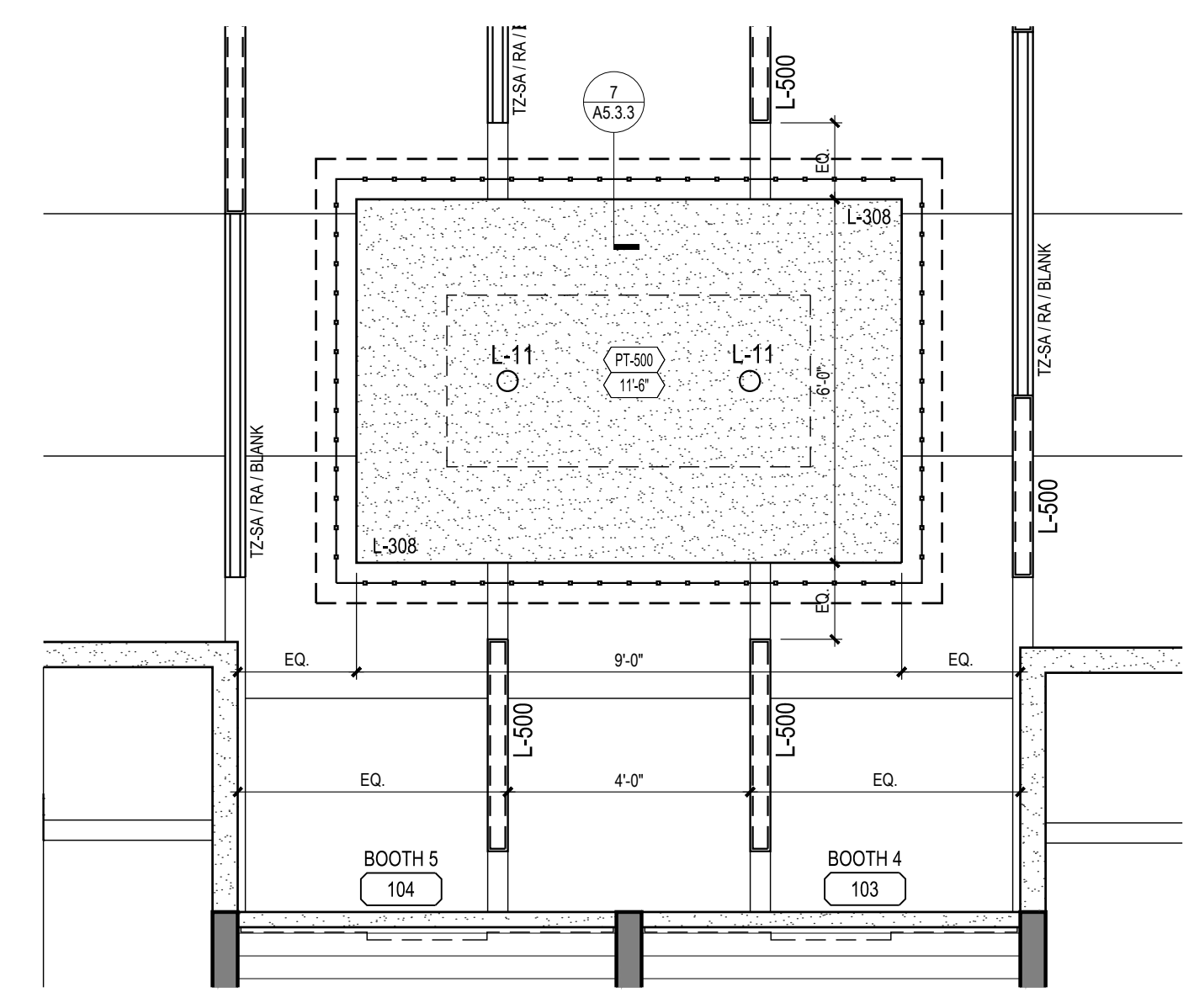
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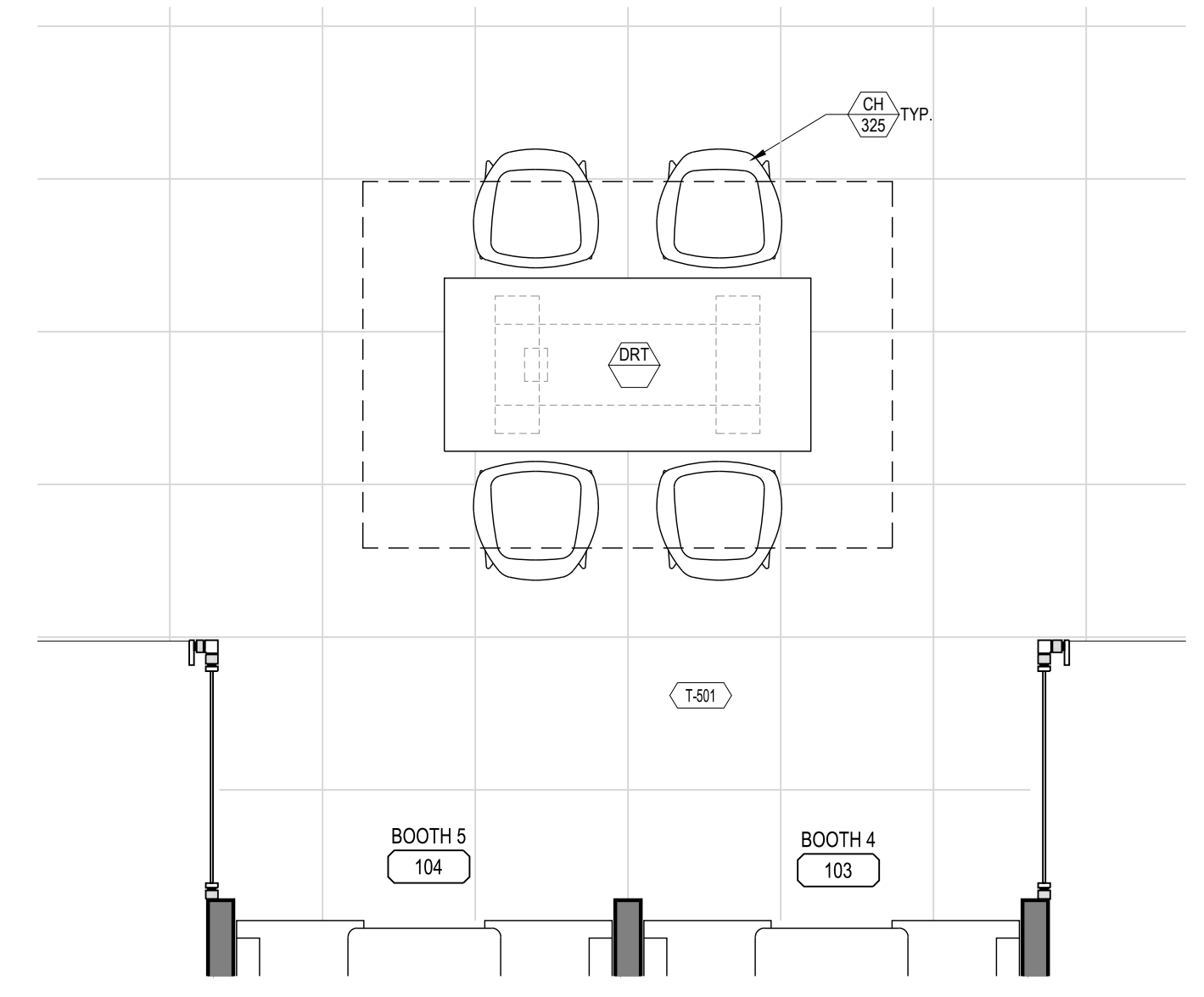
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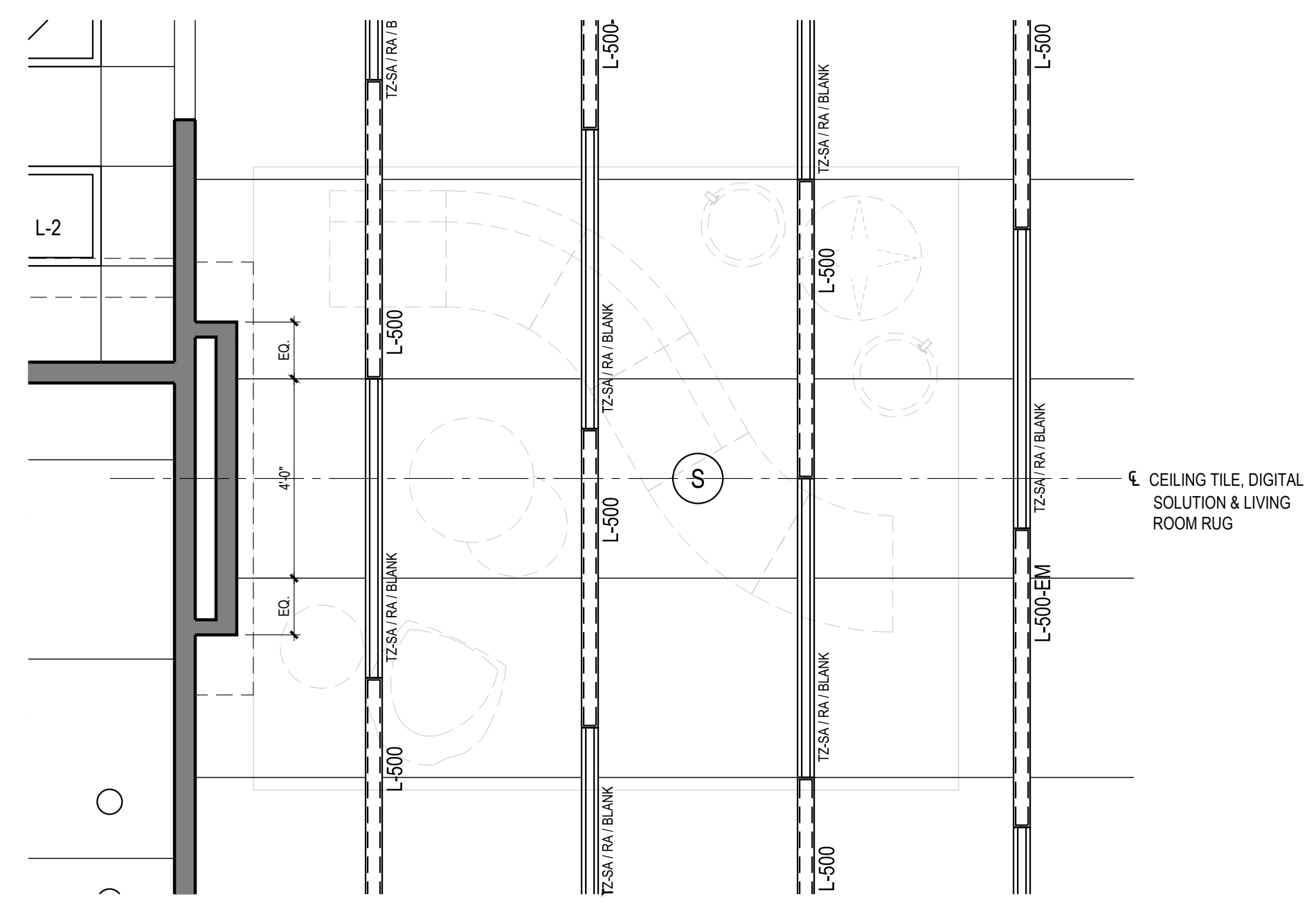
5 DRT ELEC./DATA/SEC. PLAN  
A6.03 3/8" = 1'-0"



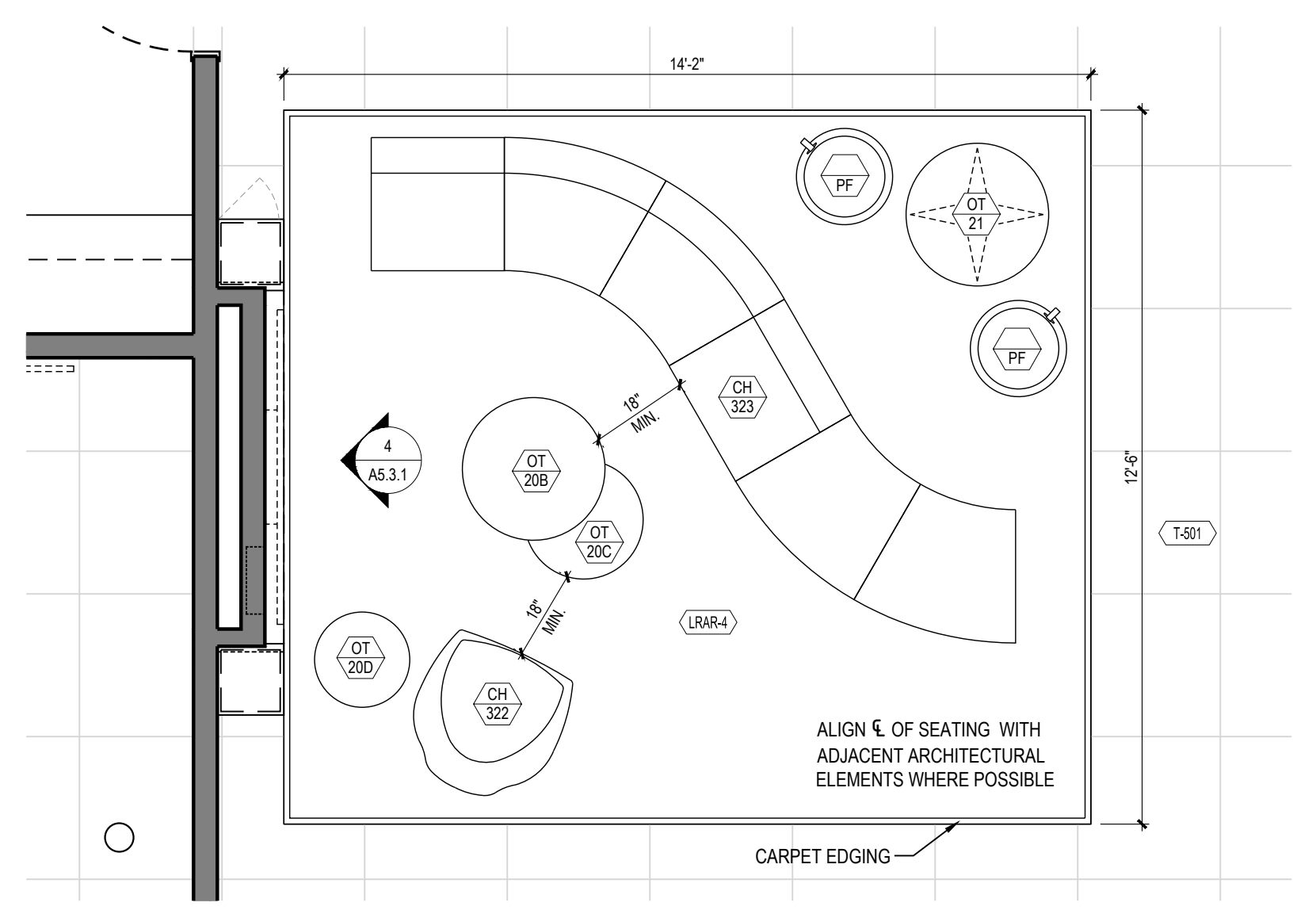
4 DRT REFL. CLG. PLAN  
A6.03 3/8" = 1'-0"



3 DRT FLOOR PLAN  
A6.03 3/8" = 1'-0"



2 REFLECTED CEILING PLAN  
A6.03 3/8" = 1'-0"



1 FLOOR PLAN  
A6.03 3/8" = 1'-0"

DINING ROOM TABLE (DRT)

LIVING ROOM

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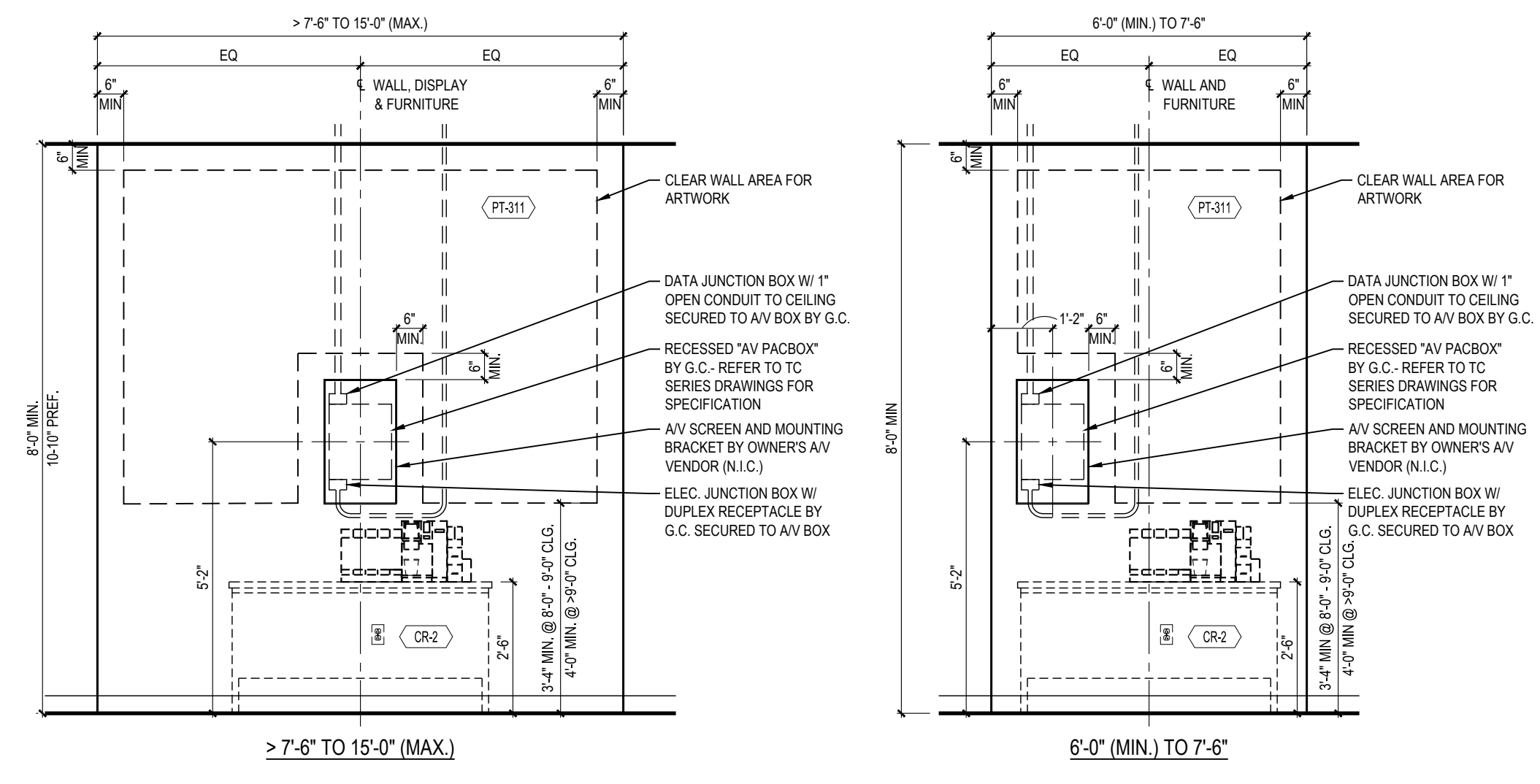
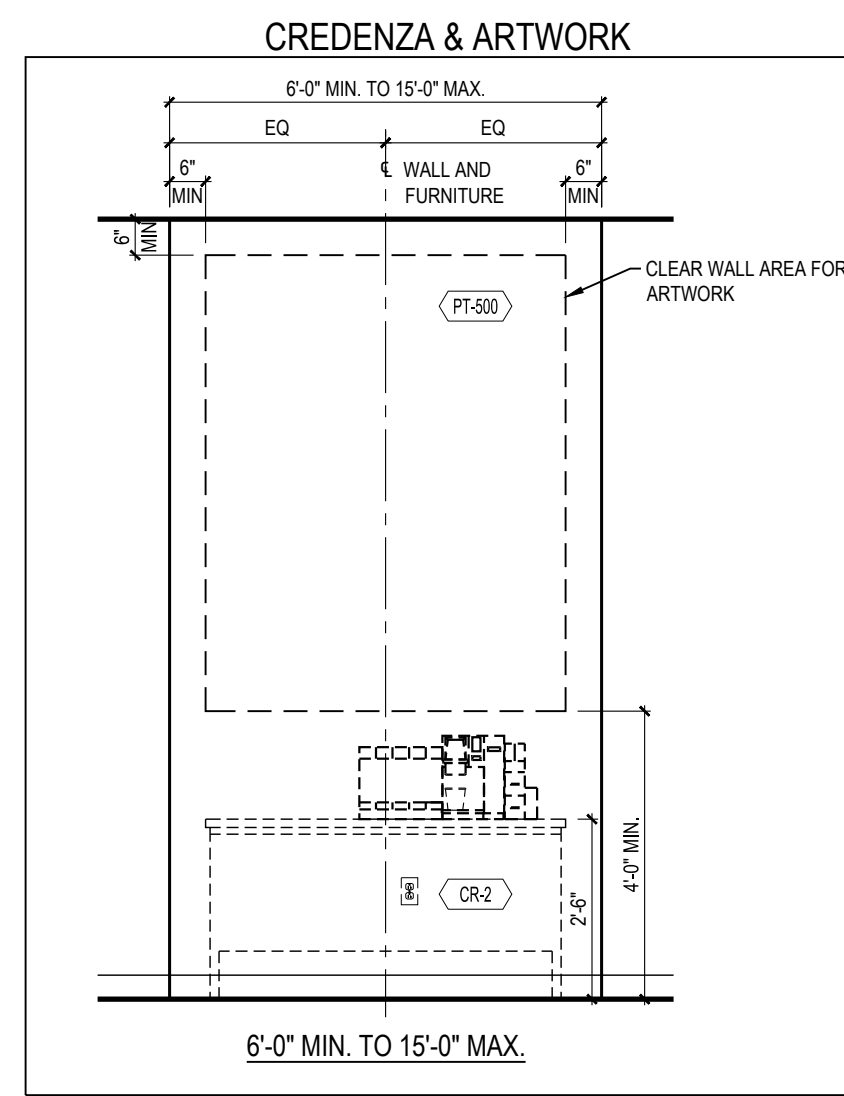
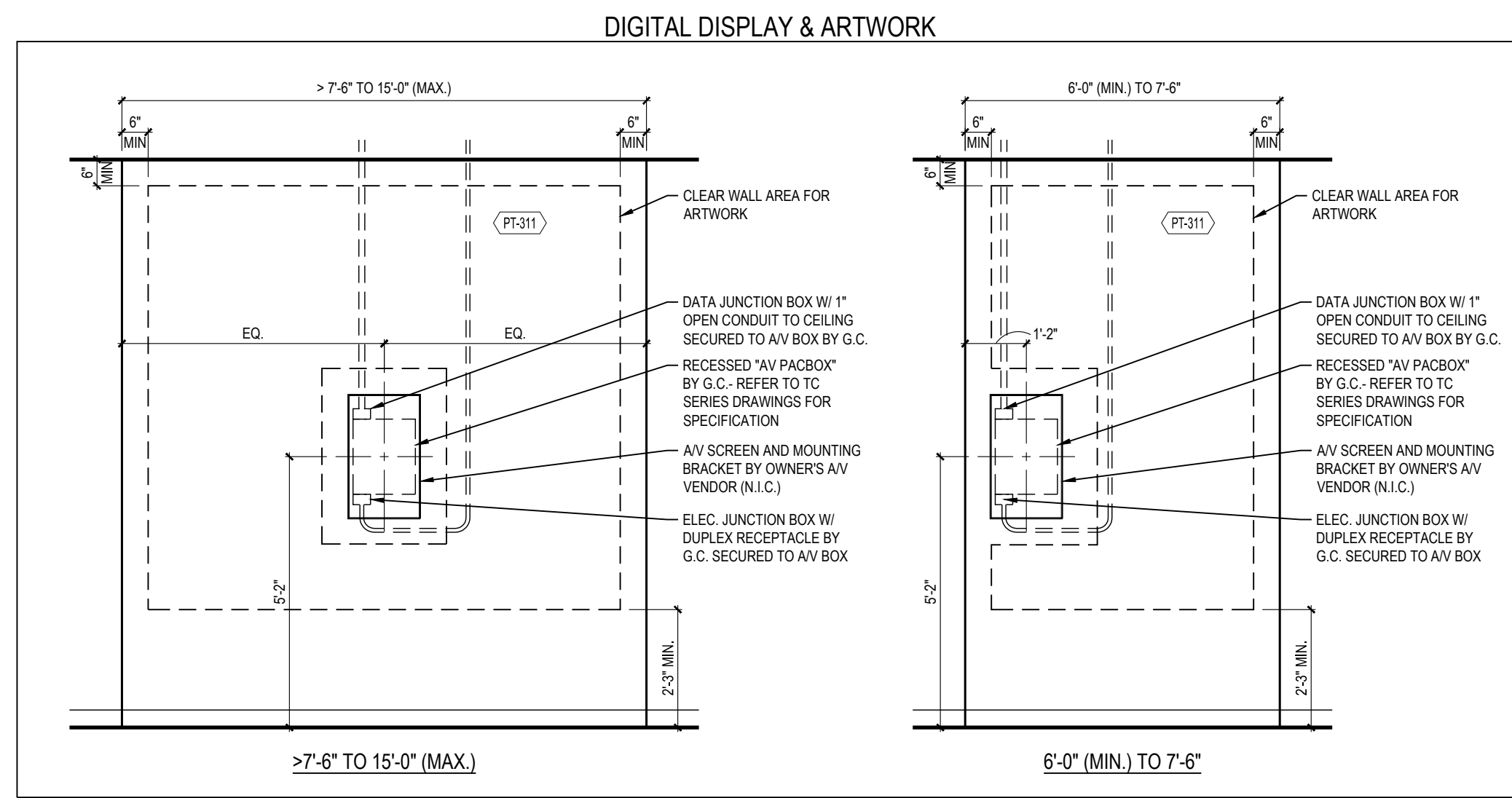


PRYOR & LOWENSTEIN  
PROTOTYPE VERSION 20.4

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LIVING ROOM  
DINING ROOM TABLE (DRT)

02/04/2022  
SHEET

**A6.03**



13  
A6.04  
3/8" = 1'-0"

12  
A6.04  
3/8" = 1'-0"

COMMUNITY WALL

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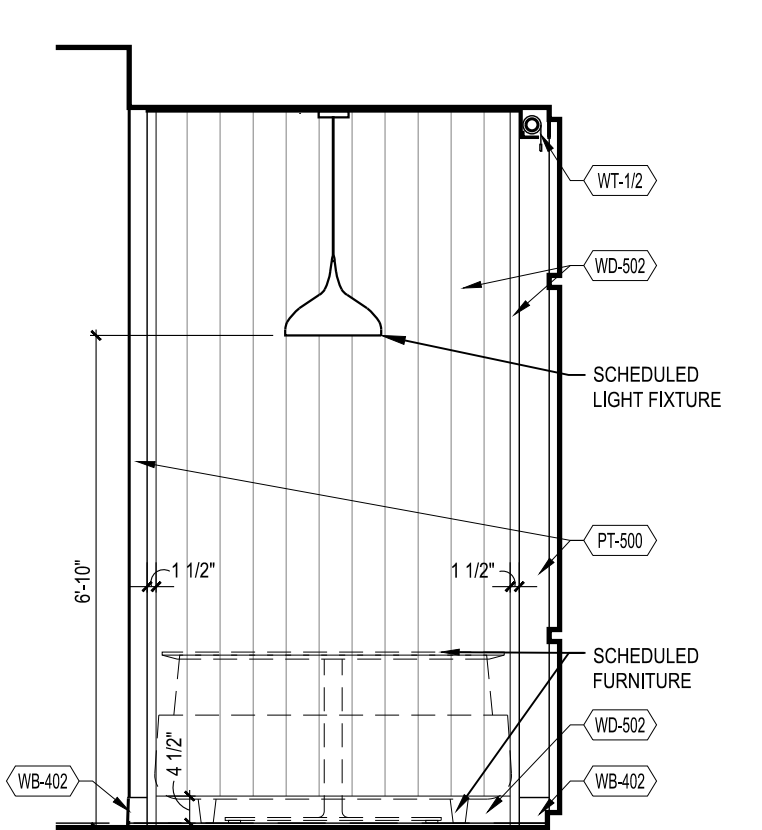


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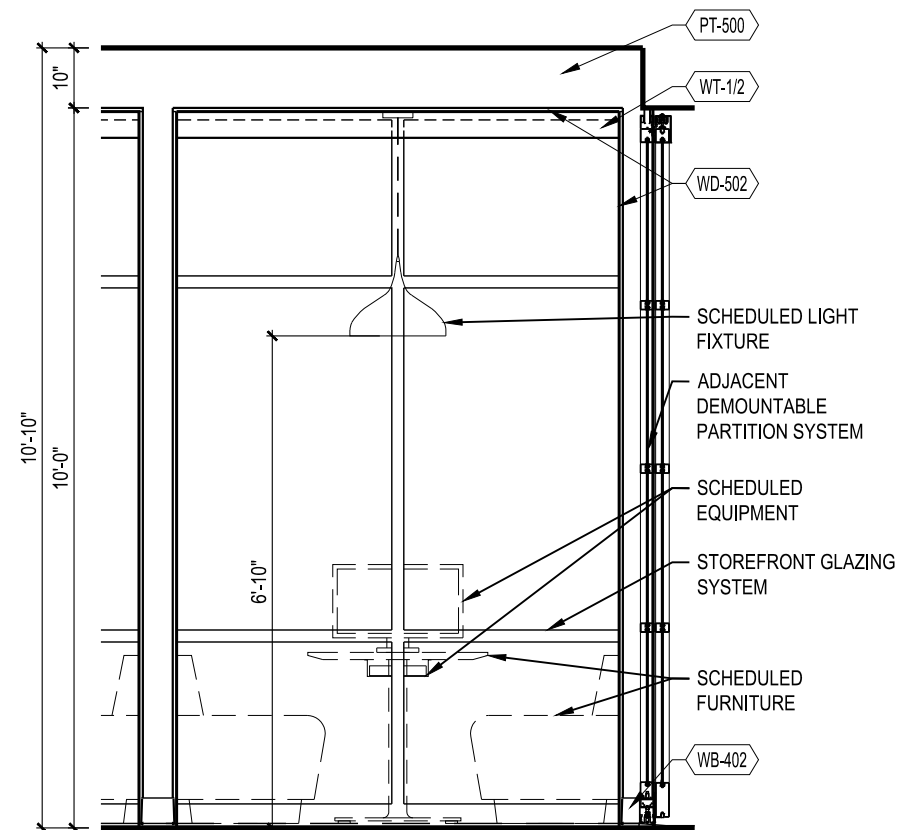
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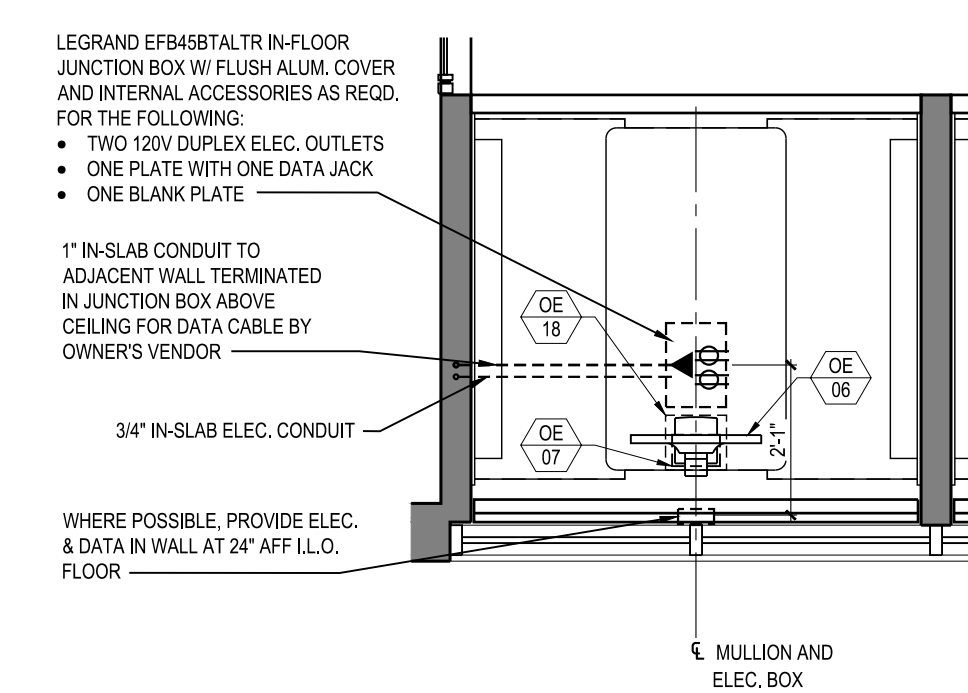
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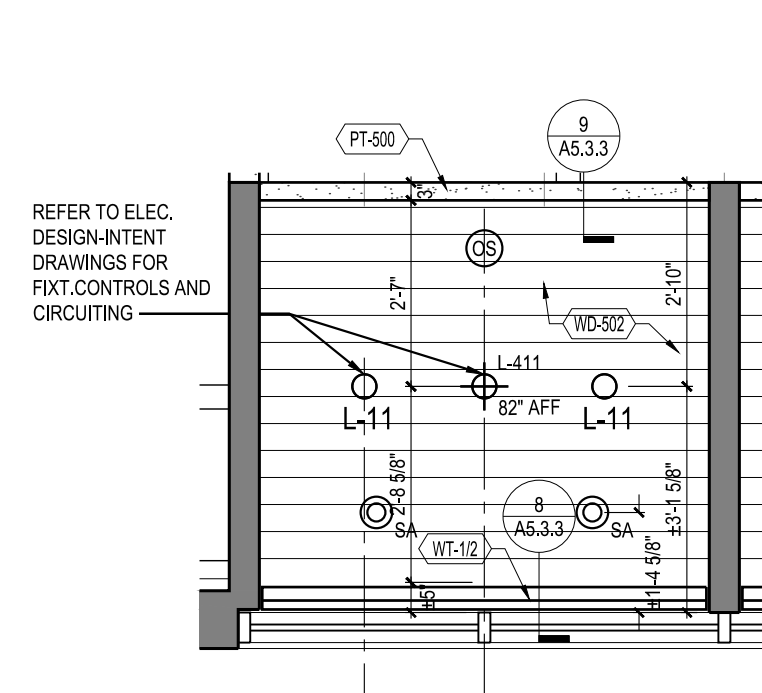
5  
A6.04  
3/8" = 1'-0"



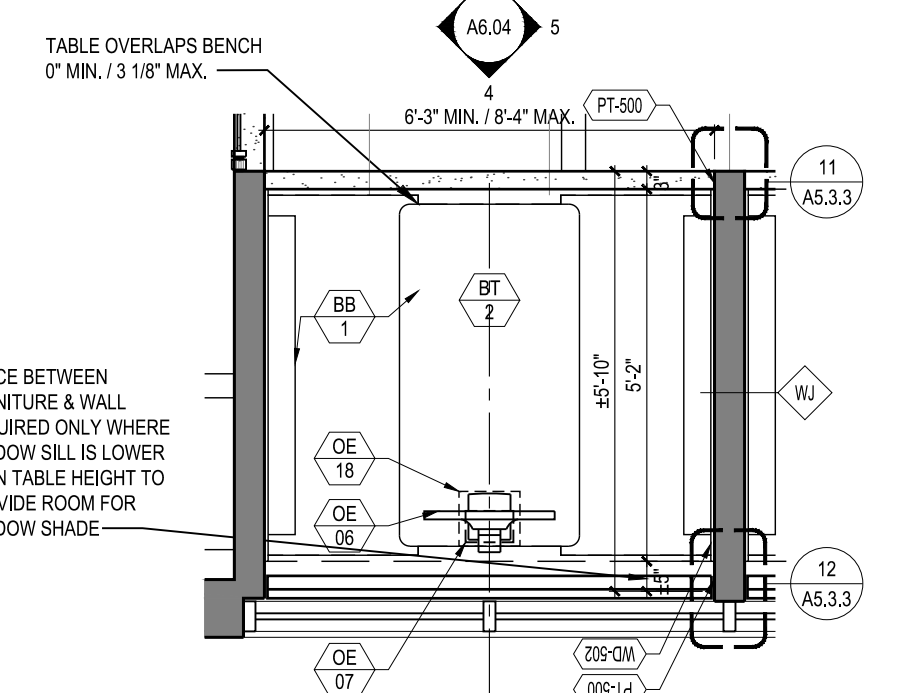
4  
A6.04  
3/8" = 1'-0"



3  
A6.04  
3/8" = 1'-0"



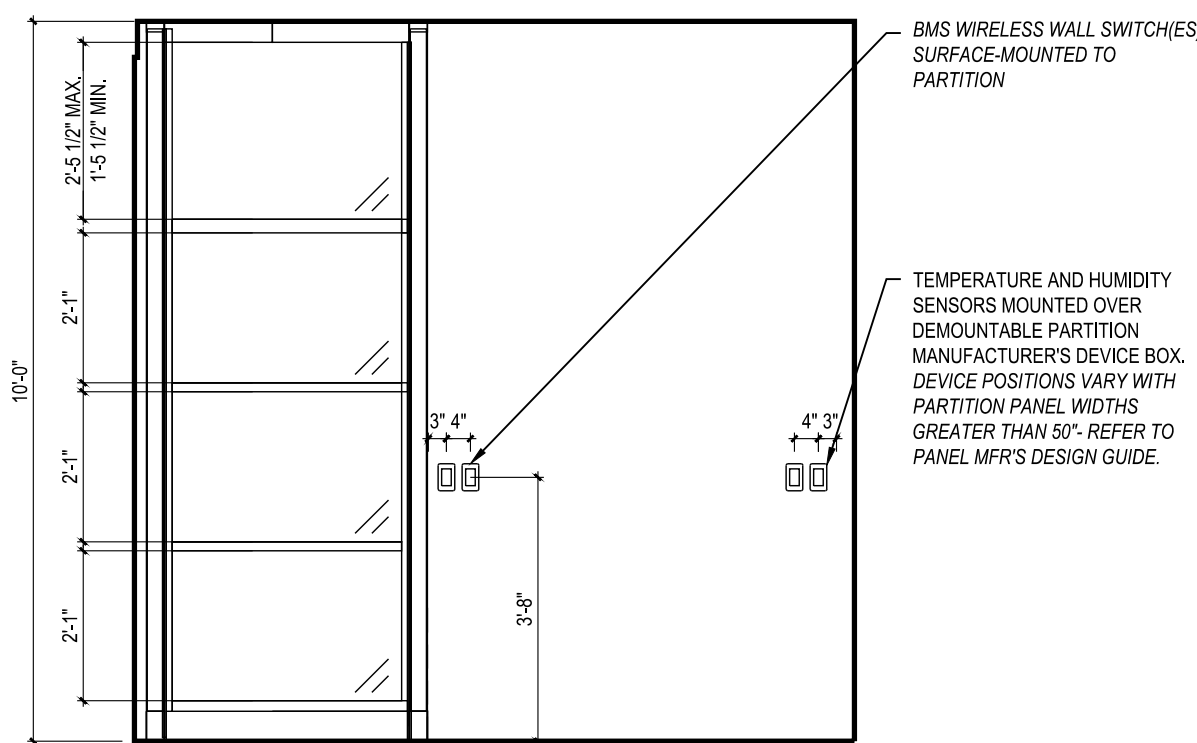
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3/8" = 1'-0"



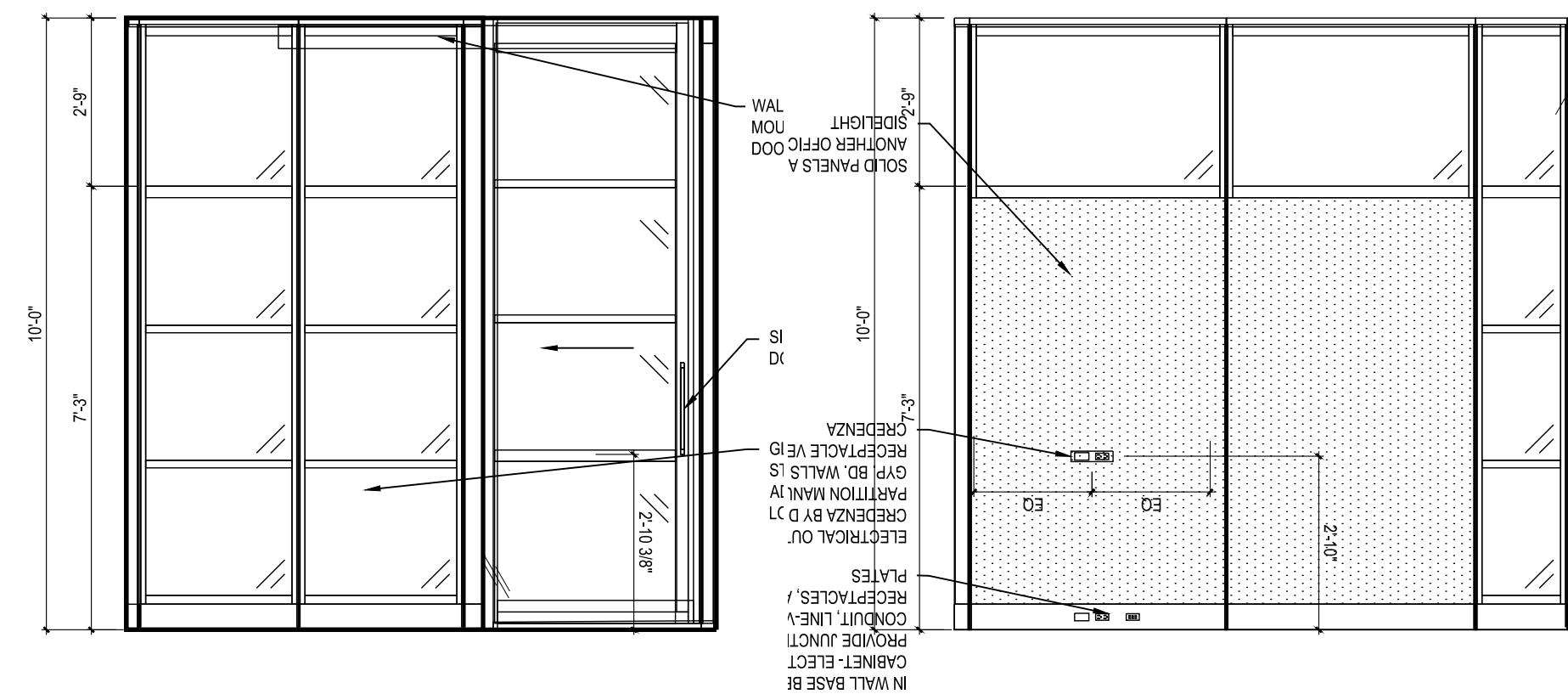
1  
A6.04  
3/8" = 1'-0"

IN JURISDICTIONS WHERE FURNITURE MANUFACTURER'S MODULAR POWER SYSTEM IS NOT PERMITTED (GENERALLY NEW YORK CITY AND CHICAGO):

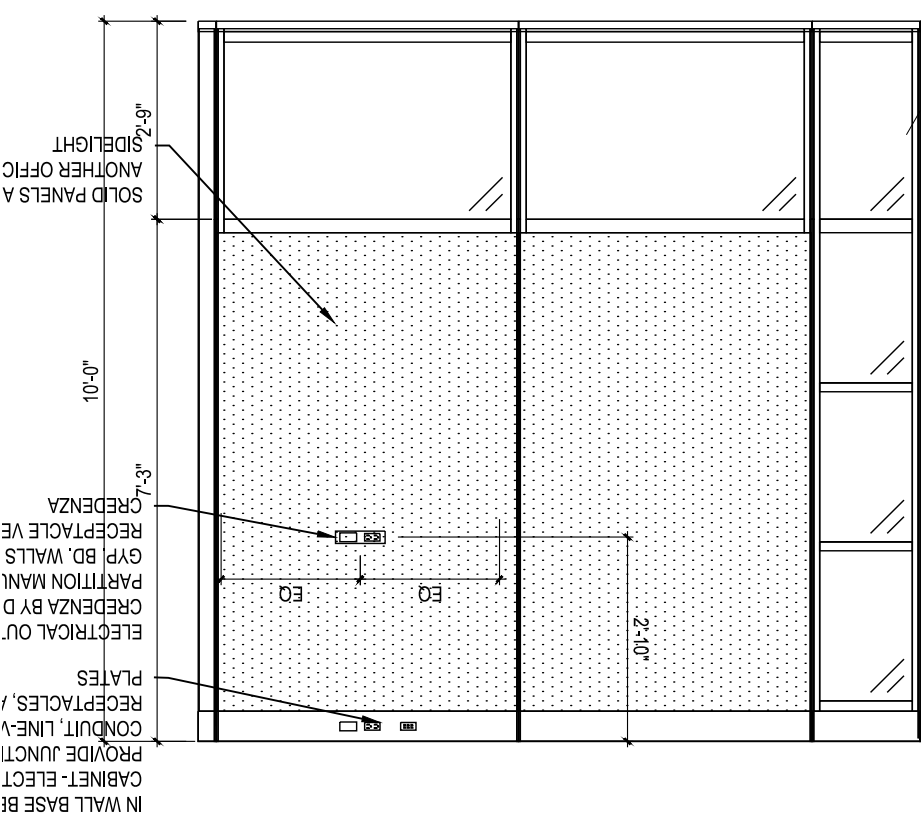
- JUNCTION BOXES AND COVER PLATES FOR ELECTRICAL RECEPTACLES IN PARTITION PANELS ARE PROVIDED BY PARTITION MFR. CONDUIT, WIRING, AND RECEPTACLES ARE PROVIDED BY ELECTRICIAN.
- FOR ELECTRICAL AND DATA DEVICES IN PARTITION BASES, ALL COMPONENTS ARE PROVIDED BY ELECTRICIAN.



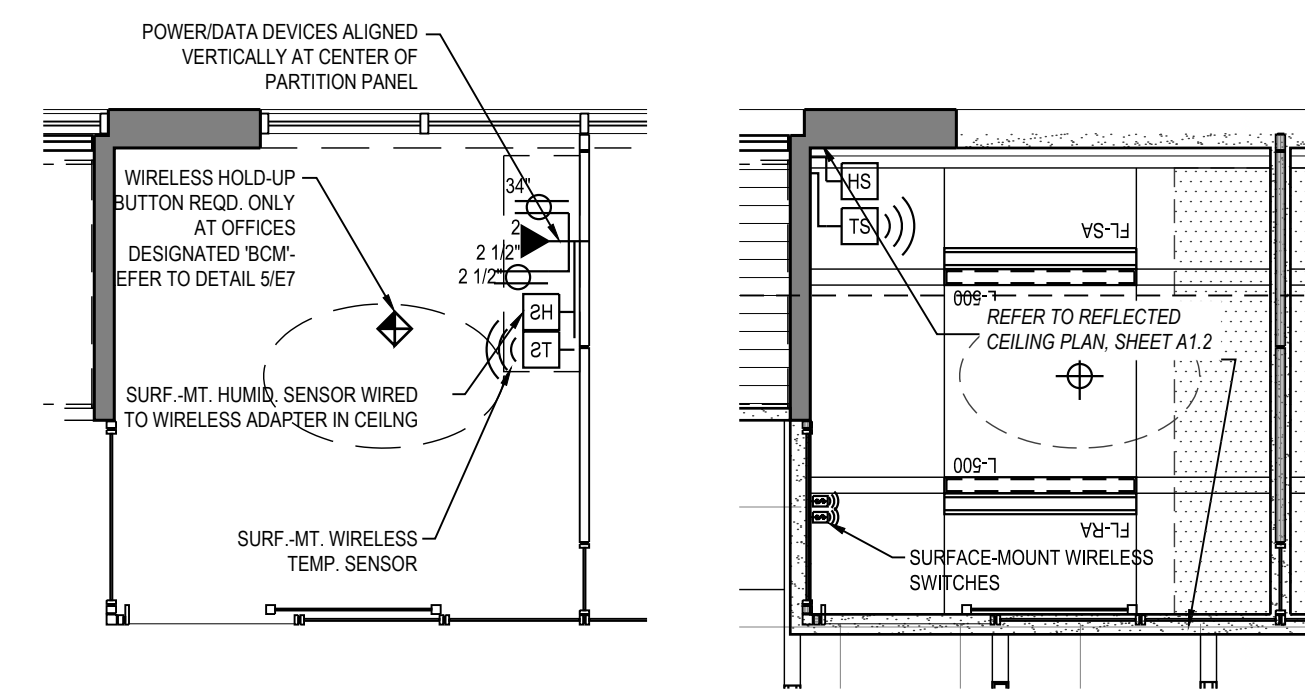
6 ELEVATION- WALL ADJ. TO OFFICE  
A6.05 3/8" = 1'-0"



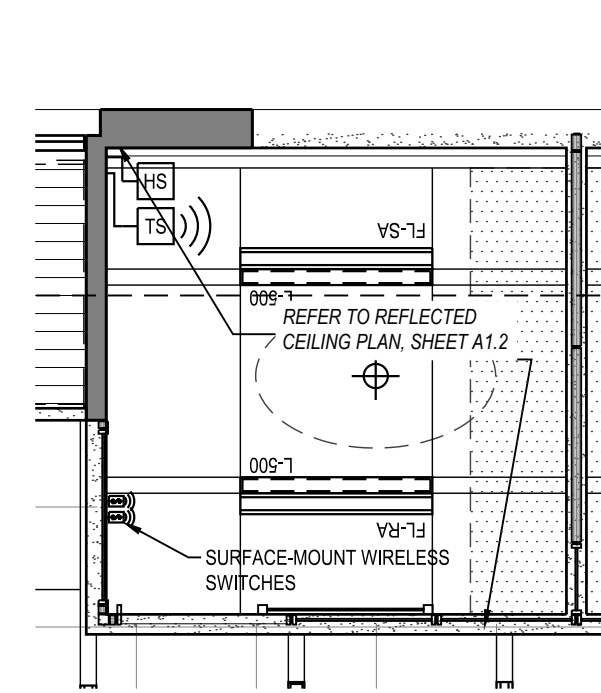
5 ELEVATION- DOOR WALL  
A6.05 3/8" = 1'-0"



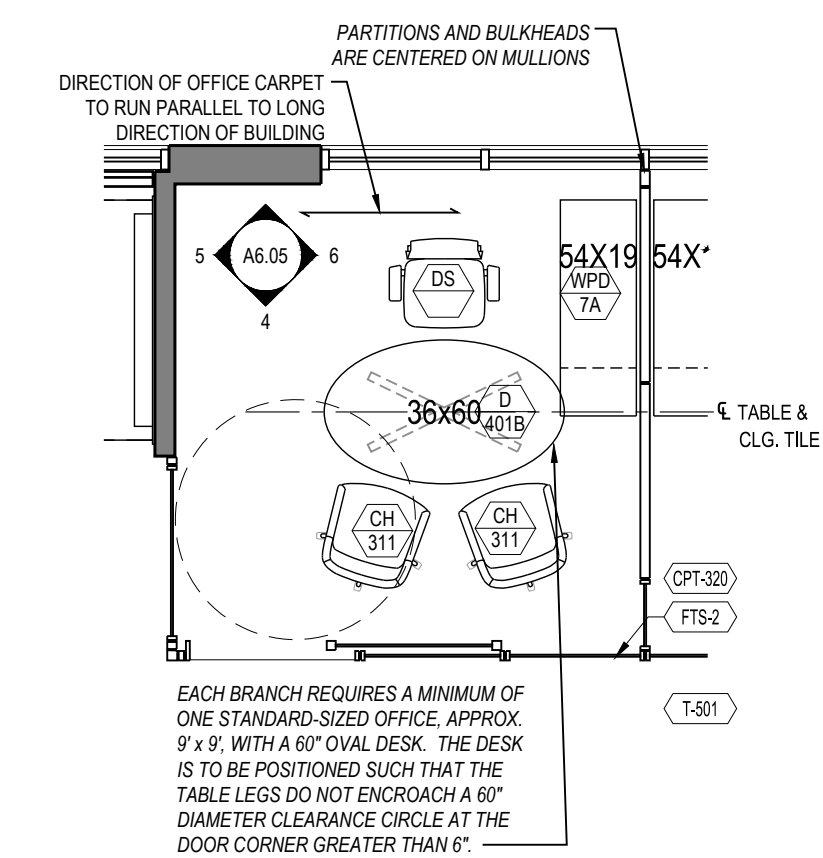
4 ELEVATION- WALL ADJ. TO LOBBY  
A6.05 3/8" = 1'-0"



3 ELEC/DATA/ SECURITY PLAN  
A6.05 1/4" = 1'-0"



2 REFL. CLG. PLAN  
A6.05 1/4" = 1'-0"



1 FLOOR PLAN  
A6.05 1/4" = 1'-0"

FOR FURTHER GUIDANCE ON AVAILABLE DEMOUNTABLE PARTITION SYSTEM CONFIGURATIONS, REFER TO FURNITURE VENDOR'S DOCUMENT "RETAIL BRANCH PRIVACY WALL ARCHITECTURAL STANDARDS" POSTED TO OVP.

EBI JOB #412100090

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PRYOR & LOWENSTEIN  
PROTOTYPE VERSION 20.4

CONTENTS

PRIVATE CONSULTATION SPACE

02/04/2022  
SHEET

A6.05

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ENVIRO BUSINESS, INC.  
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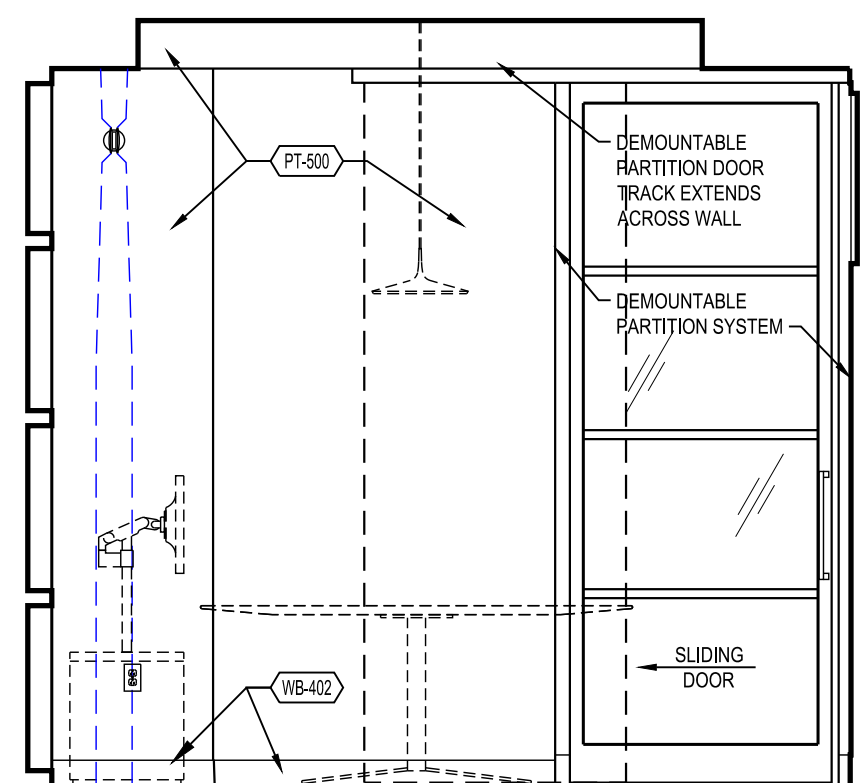
SIGNED BY:

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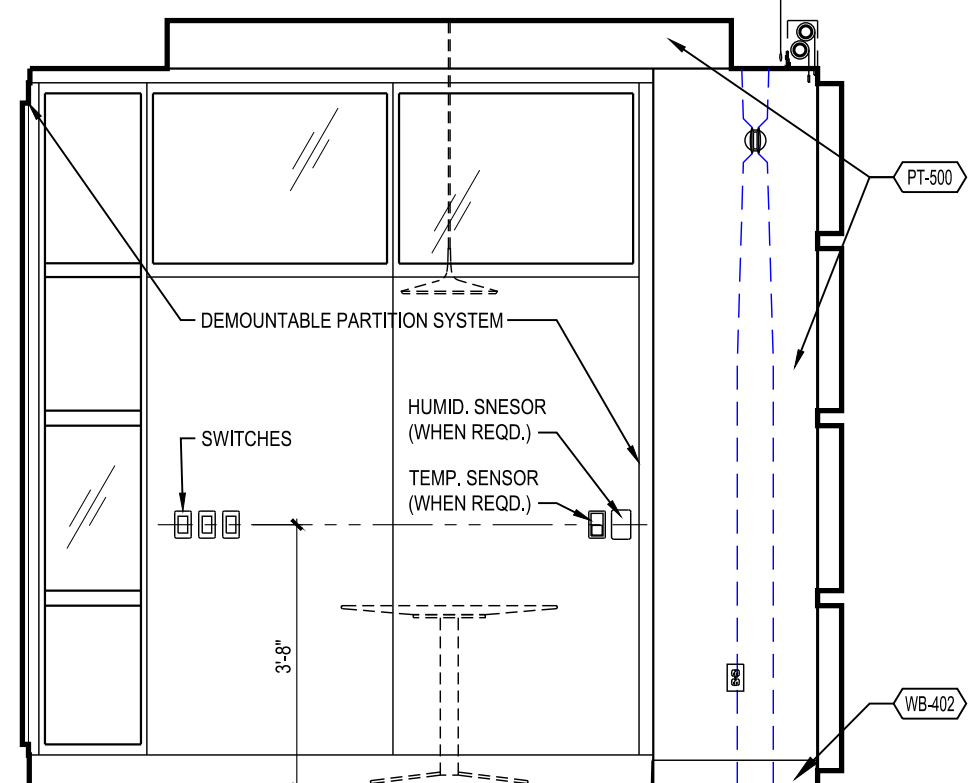
PRYOR ROAD & LOWENSTEIN DRIVE

908 NW PRYOR ROAD  
LEE'S SUMMIT, MO 64081

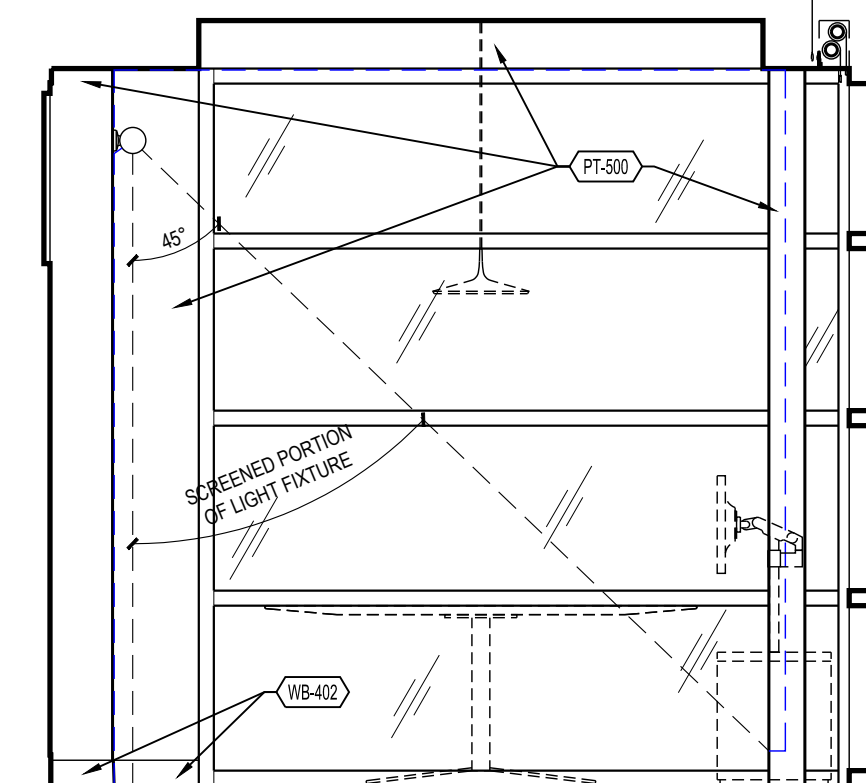
PRIVATE CONSULT. SPACE (PCS)



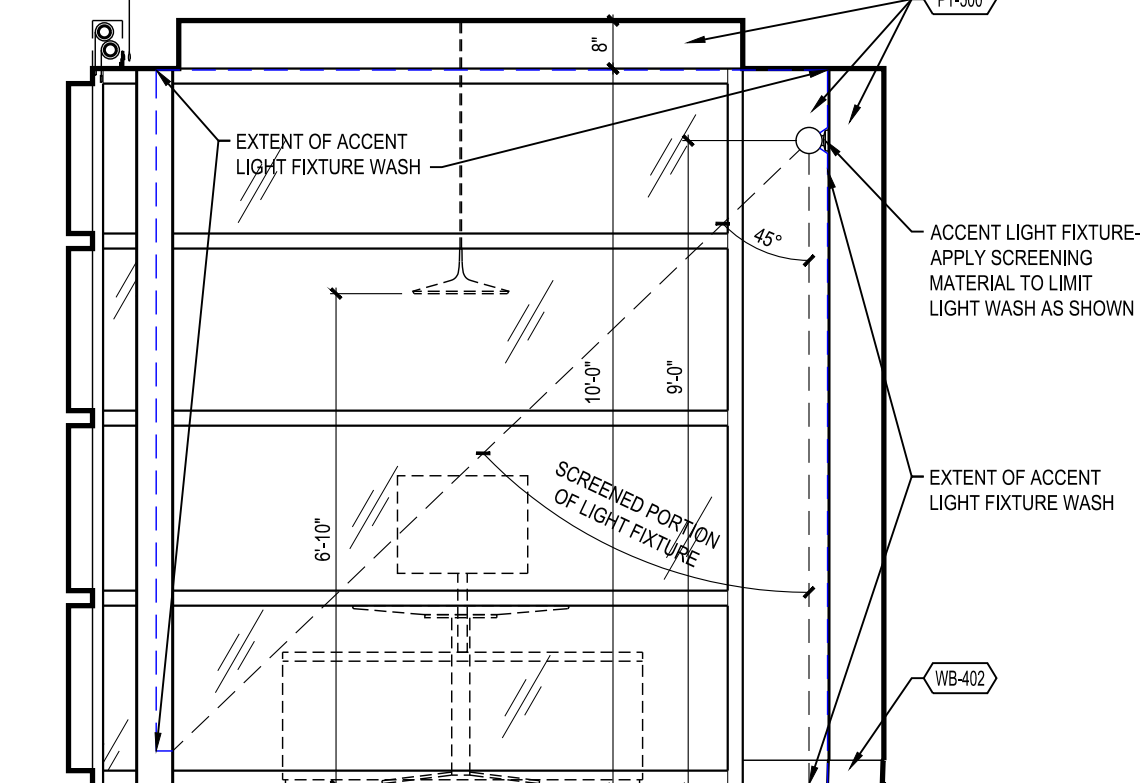
7 ELEV- DOOR WALL  
A6.06 3/8" = 1'-0"



6 ELEV- DEMOUNT. PART. WALL  
A6.06 3/8" = 1'-0"

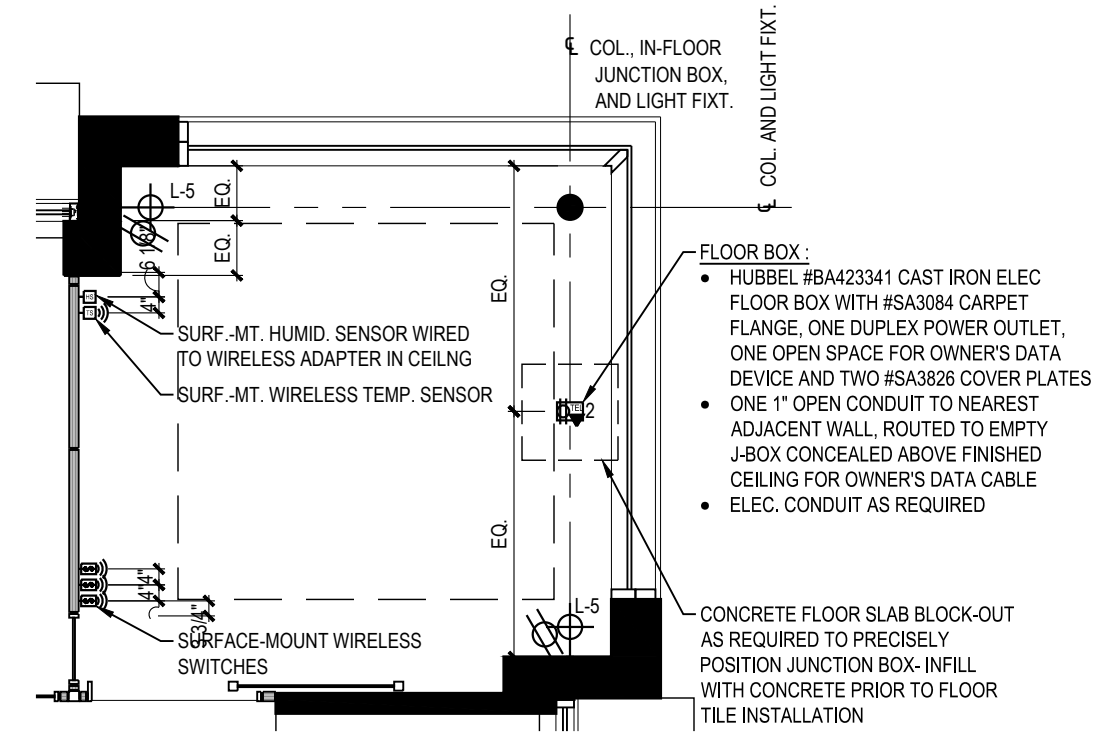


5 ELEV- EXTERIOR WALL  
A6.06 3/8" = 1'-0"

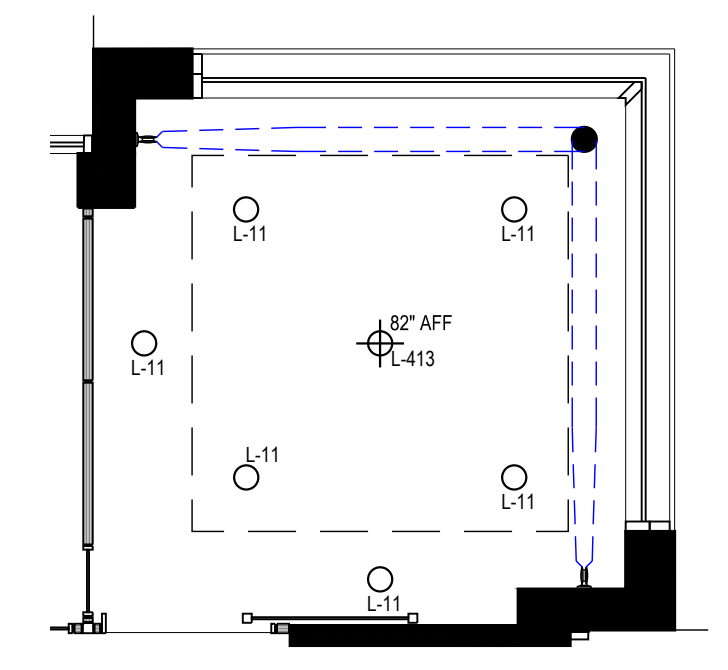


4 ELEV- EXTERIOR WALL  
A6.06 3/8" = 1'-0"

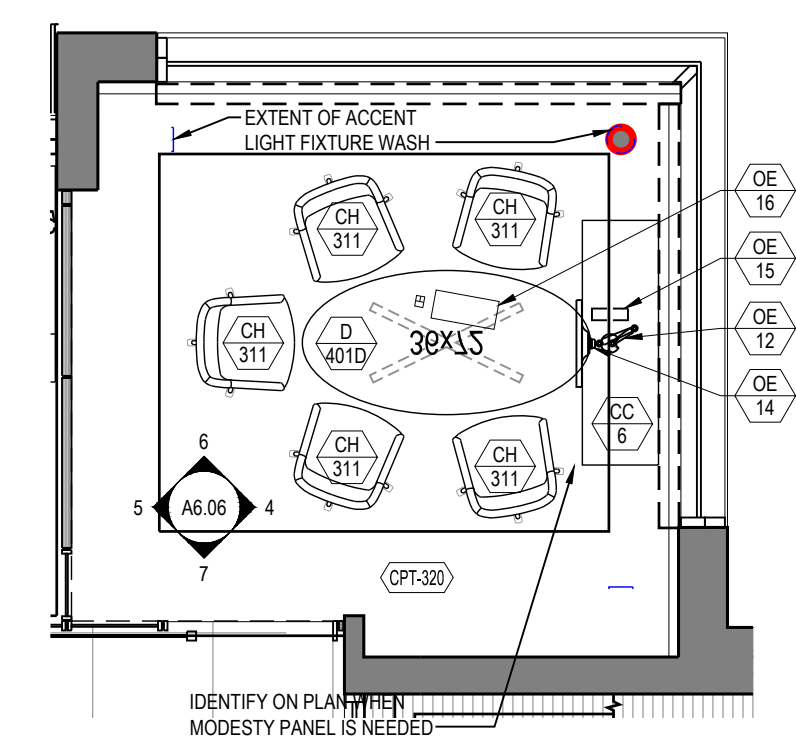
FOR FURTHER GUIDANCE ON AVAILABLE DEMOUNTABLE PARTITION SYSTEM CONFIGURATIONS, REFER TO FURNITURE VENDORS DOCUMENT "RETAIL BRANCH PRIVACY WALL ARCHITECTURAL STANDARDS" POSTED TO OVP.



3 ELEC./DATA/SECURITY PLAN  
A6.06 1/4" = 1'-0"



2 REFL. CEILING PLAN  
A6.06 1/4" = 1'-0"



1 FLOOR PLAN  
A6.06 1/4" = 1'-0"

CONFERENCE ROOM

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PROTOTYPE VERSION 20.4

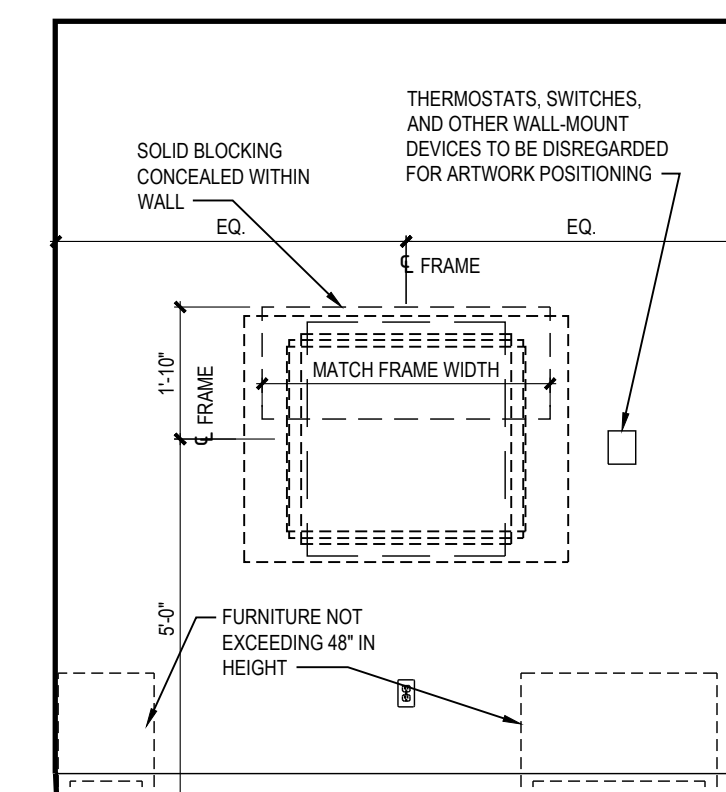
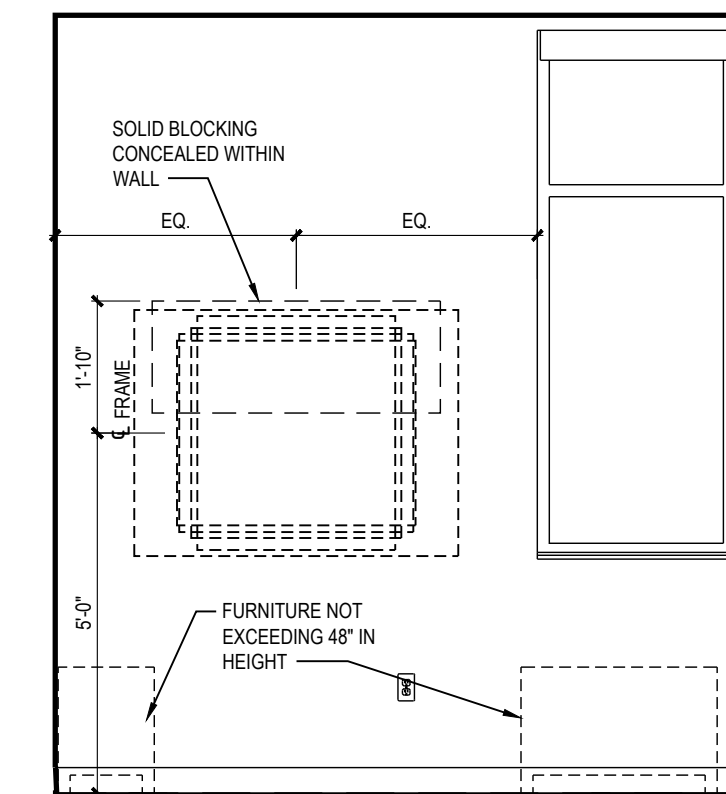
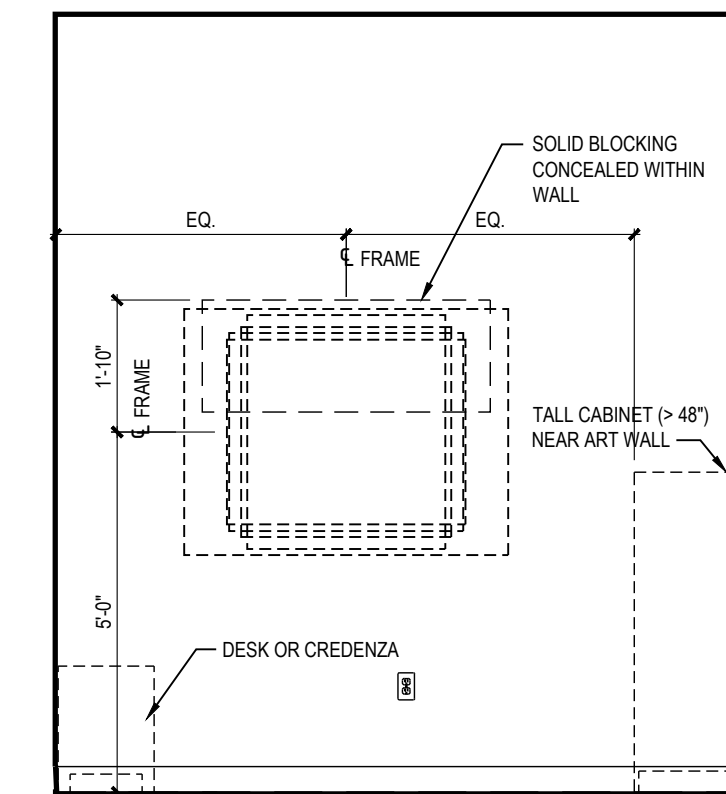
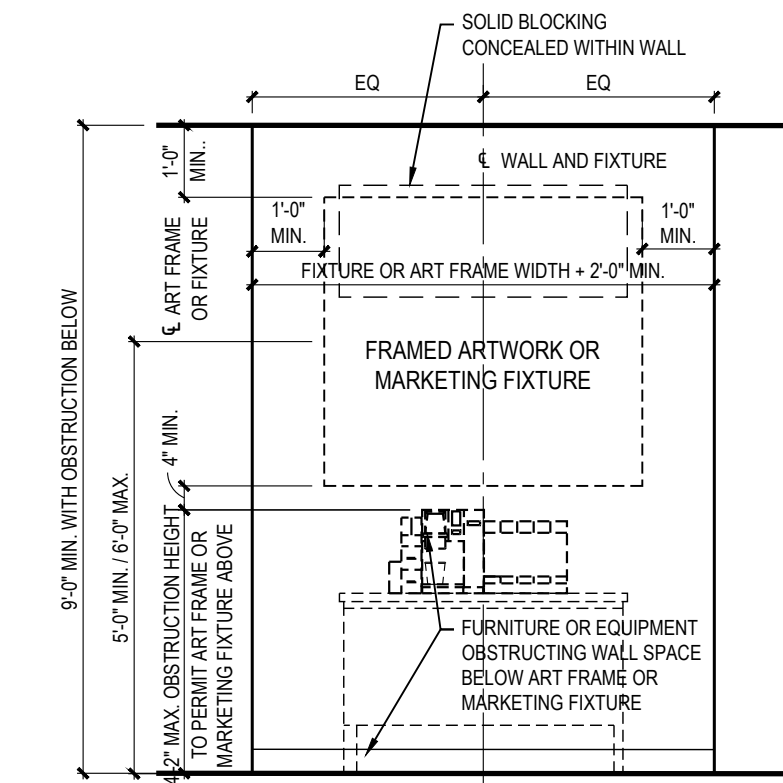
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CONFERENCE ROOM

02/04/2022  
SHEET

**A6.06**

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# ART AND MARKETING



- OWNER-PROVIDED ARTWORK POSITIONING GUIDELINES:**
- PREFERRED LOCATION: BACK WALL
  - SECONDARY LOCATION: SIDE WALL
  - OPPOSITE DESK
  - STANDARD SIZES FOR OFFICES, CONFERENCE ROOMS, AND LOBBIES:
    - 35" SQUARE
    - 35"W x 30"H
    - 35"W x 33"H
    - 39.75"W x 30.75" H
  - LARGE SIZE FOR CONFERENCE ROOMS AND LOBBIES ONLY:
    - 54"W x 41"H

ELEVATIONS:  
ART AND MARKETING MATERIALS POSITIONING

10  
A6.07

3/8" = 1'-0"

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PRYOR & LOWENSTEIN  
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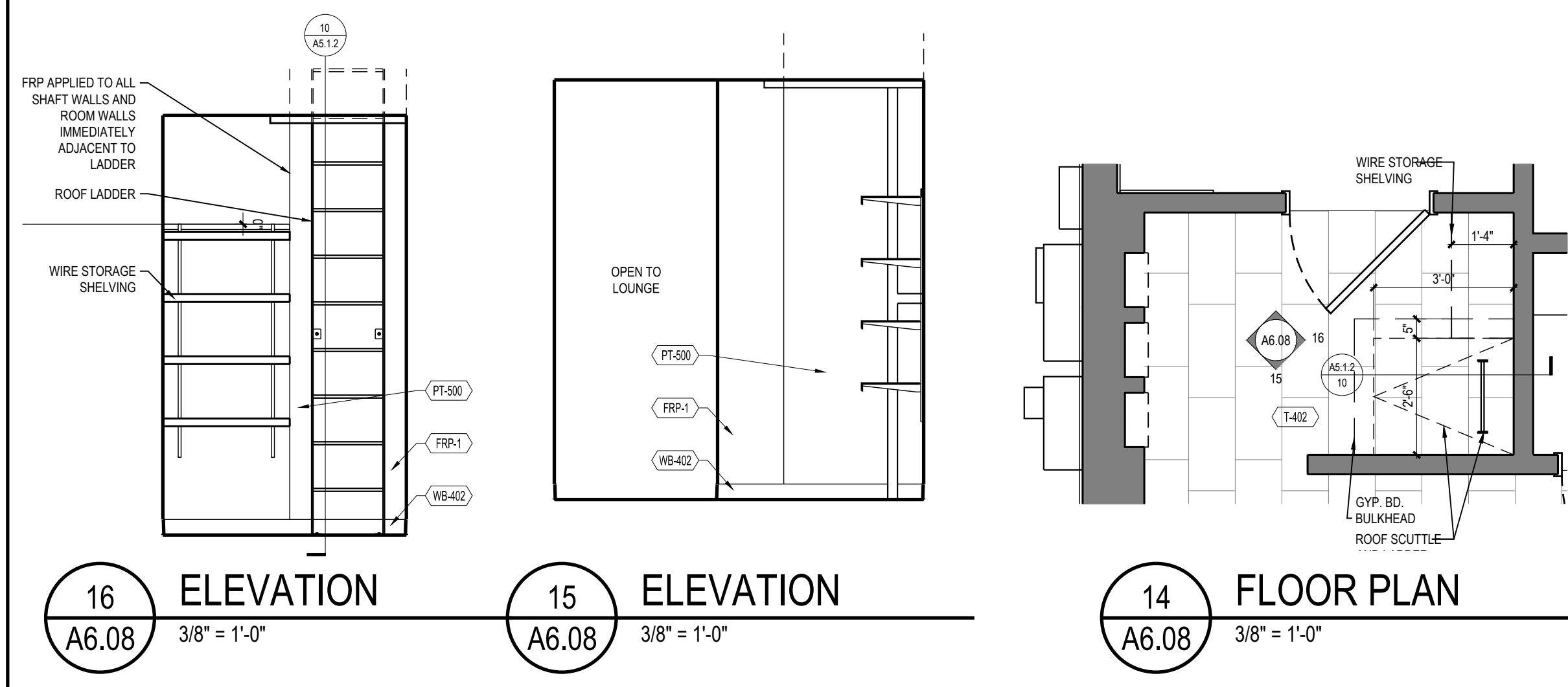
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ART AND MERCHANDISING POSITIONING

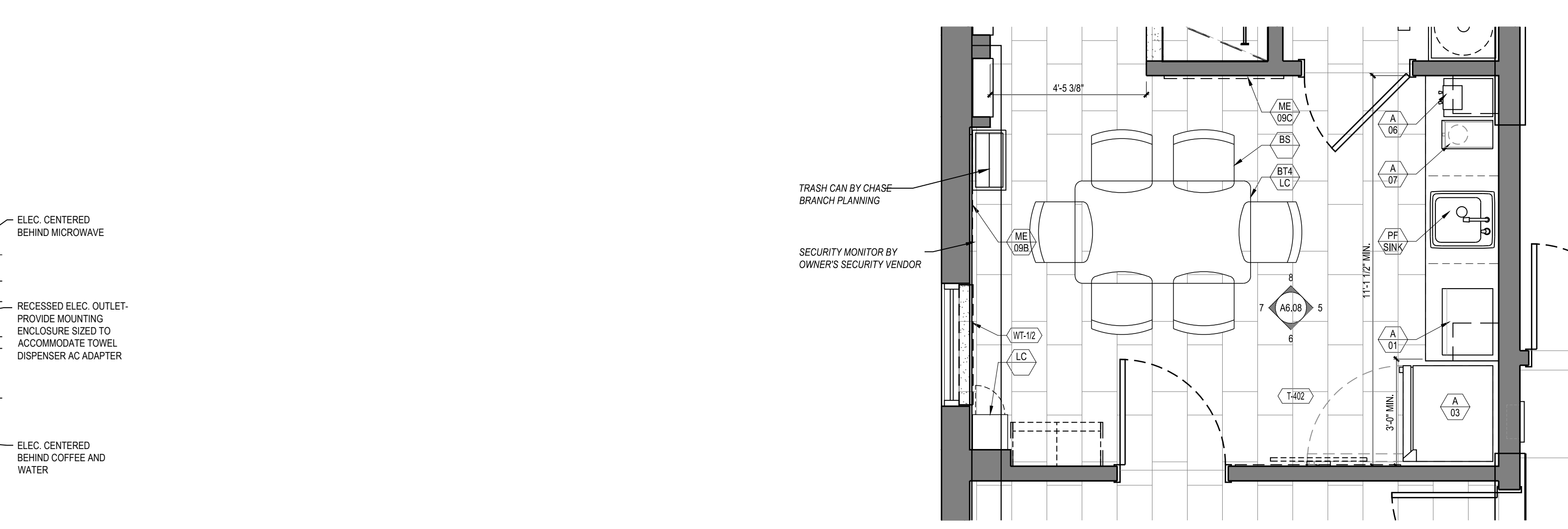
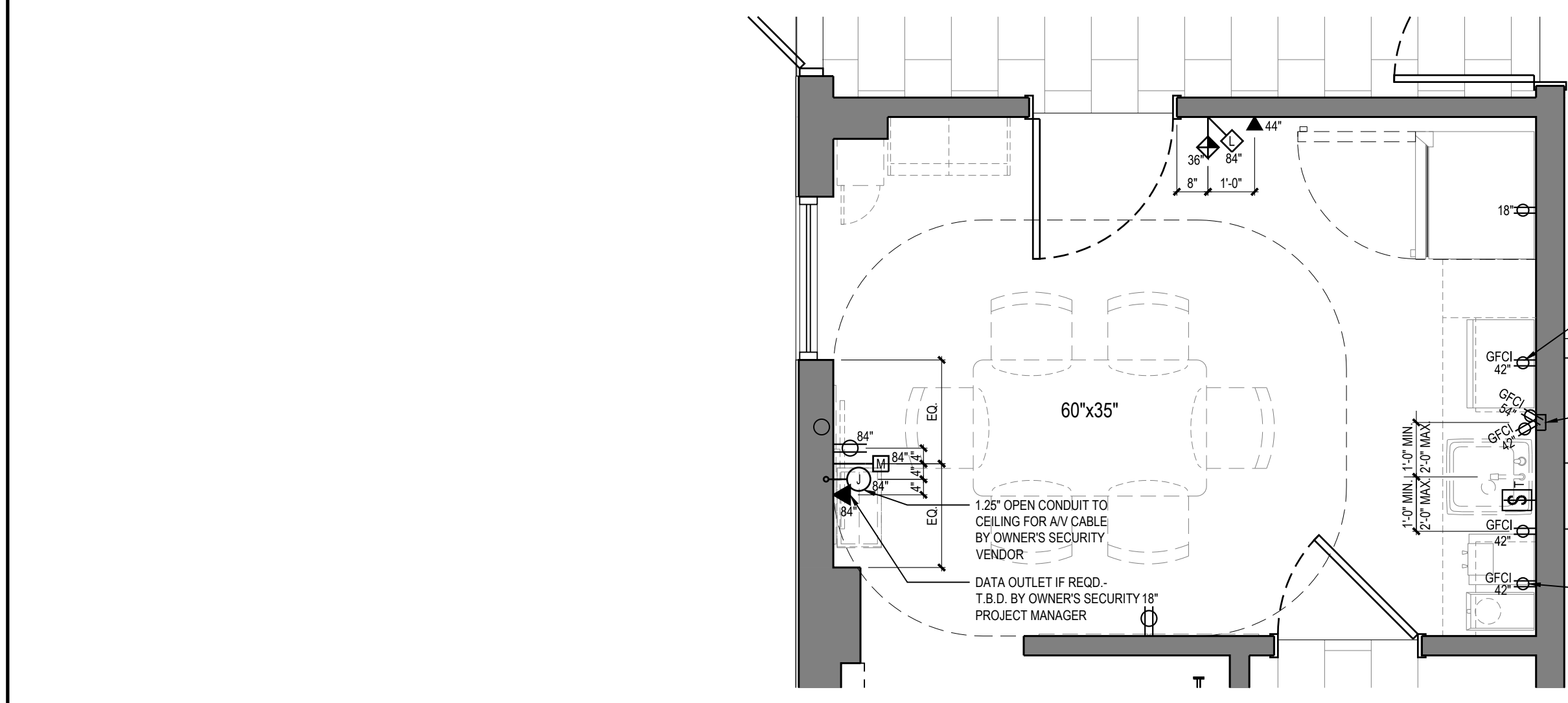
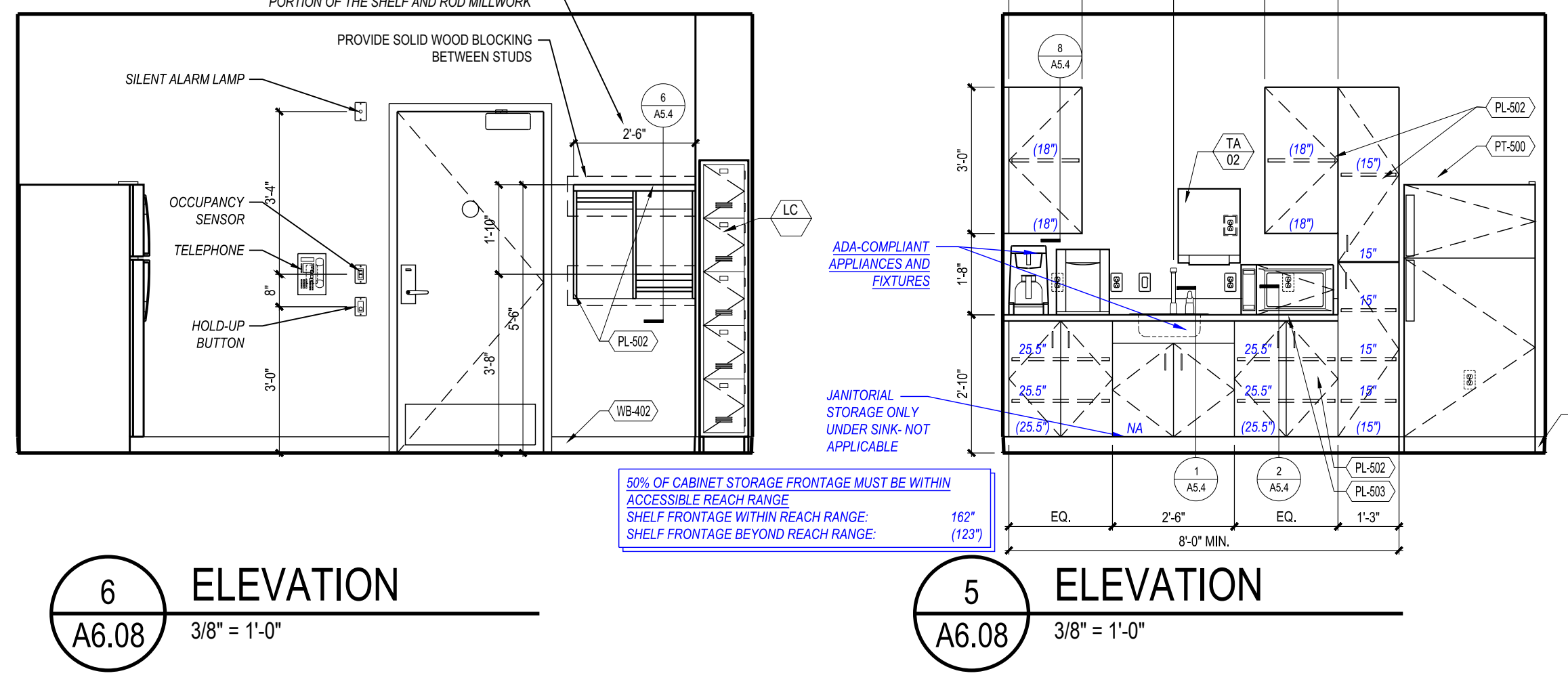
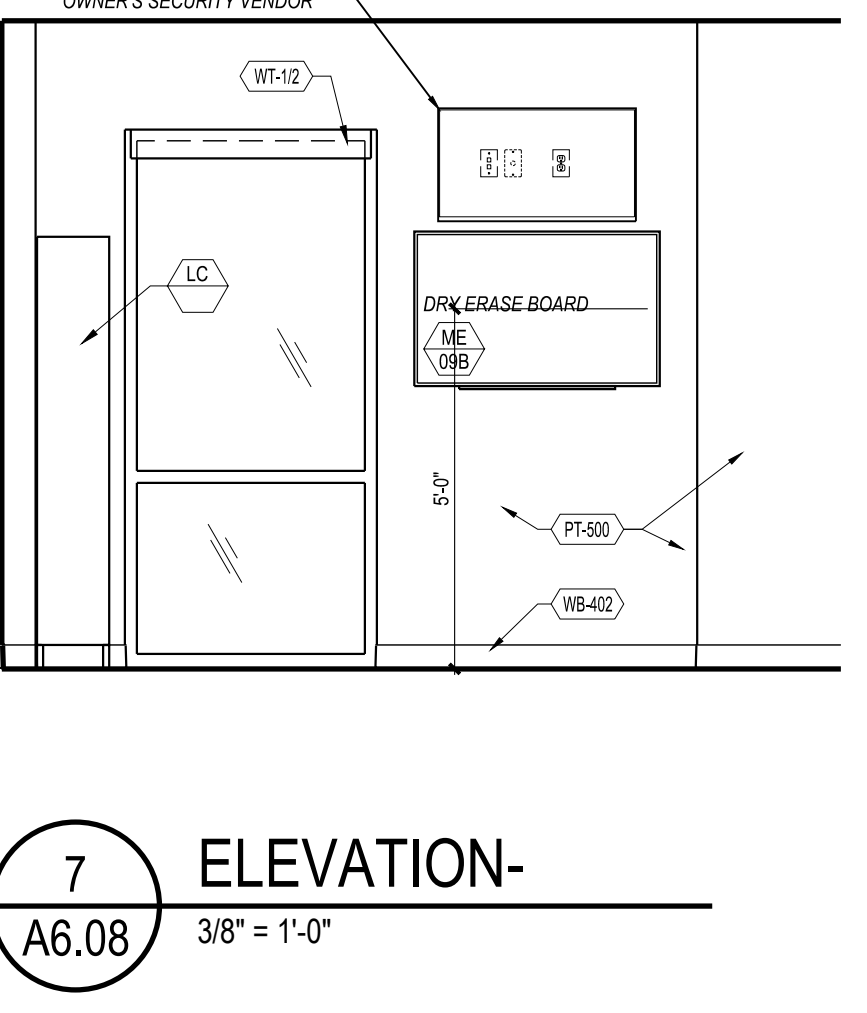
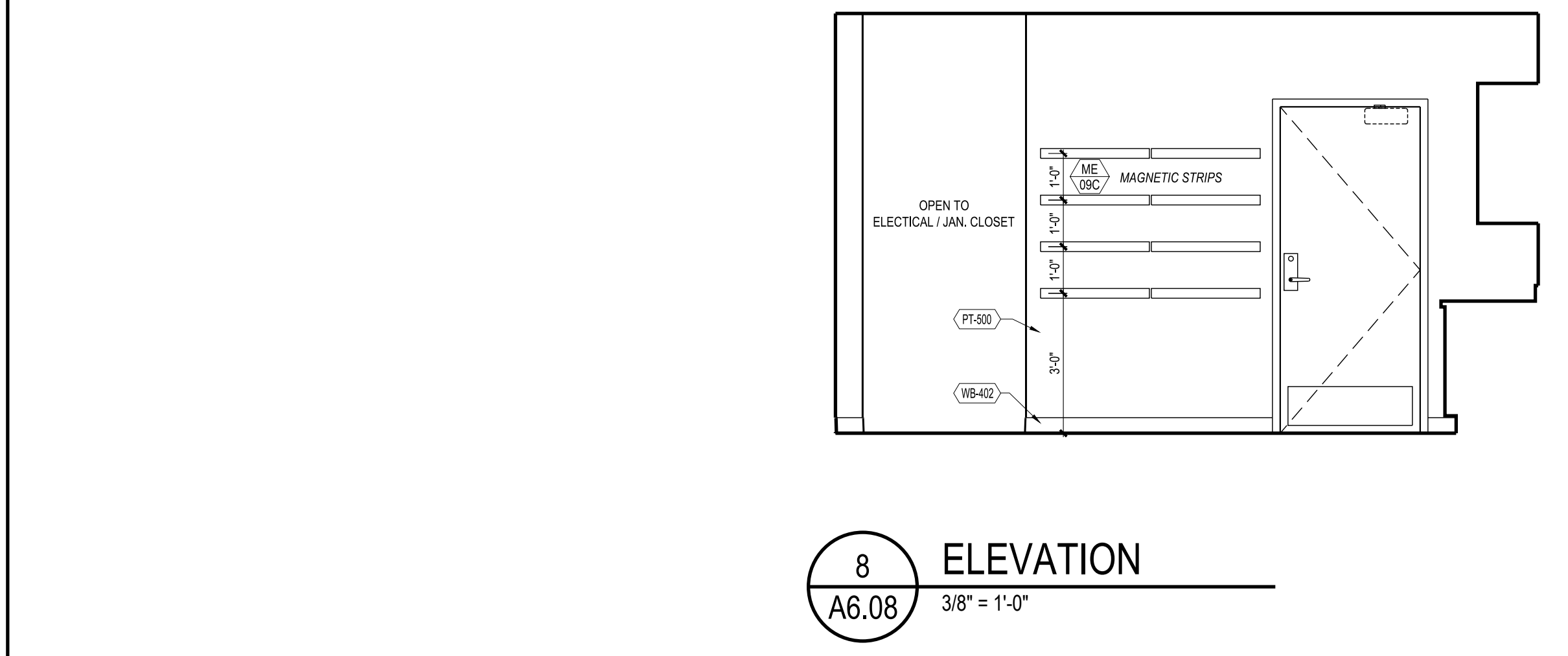
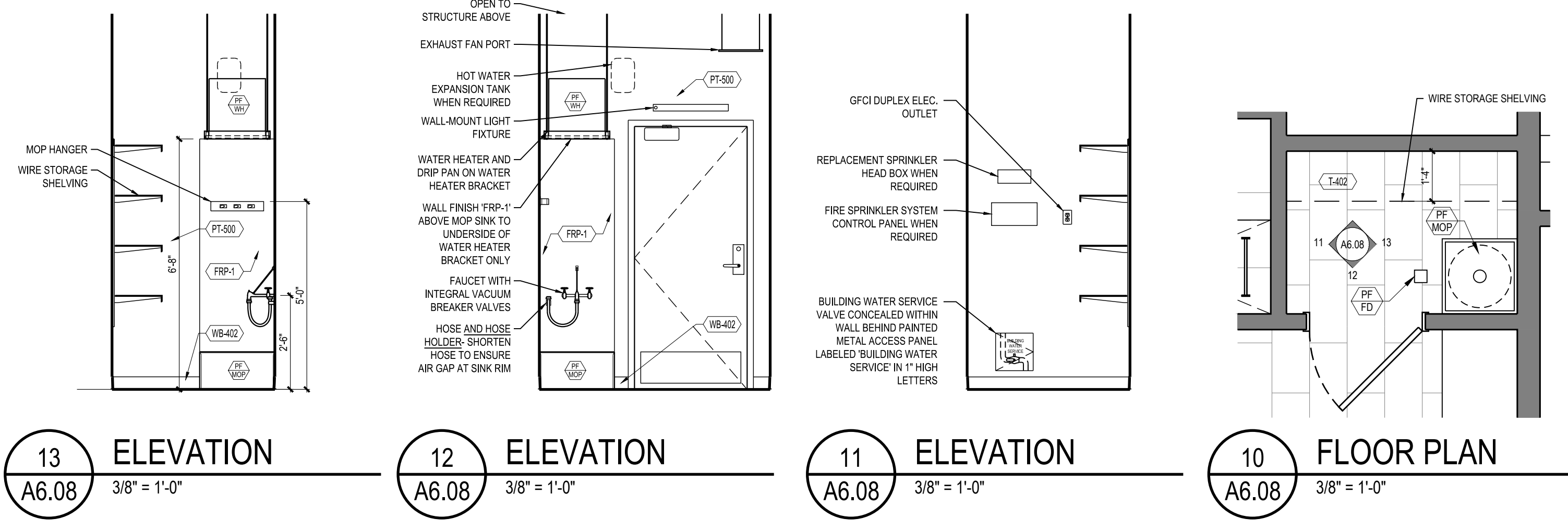
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**A6.07**



LADDER AREA



JANITOR'S CLOSET

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LOUNGE

**PRYOR ROAD & LOWENSTEIN DRIVE**  
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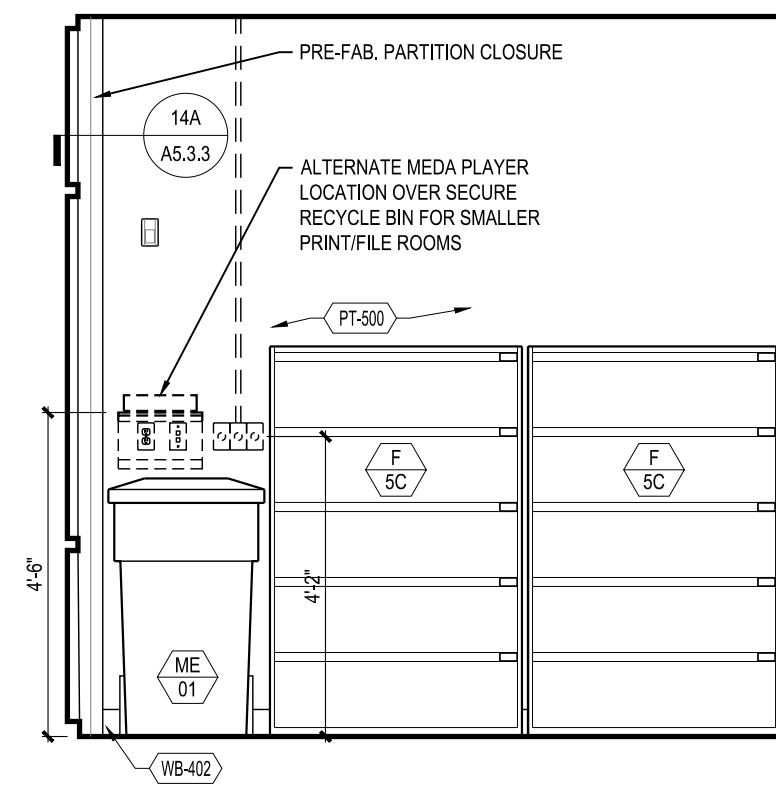
PRYOR & LOWENSTEIN  
 PROTOTYPE VERSION 20.4

CONTENTS  
 LOUNGE  
 JANITOR'S CLOSET  
 ELECTRICAL PANEL / LADDER AREA

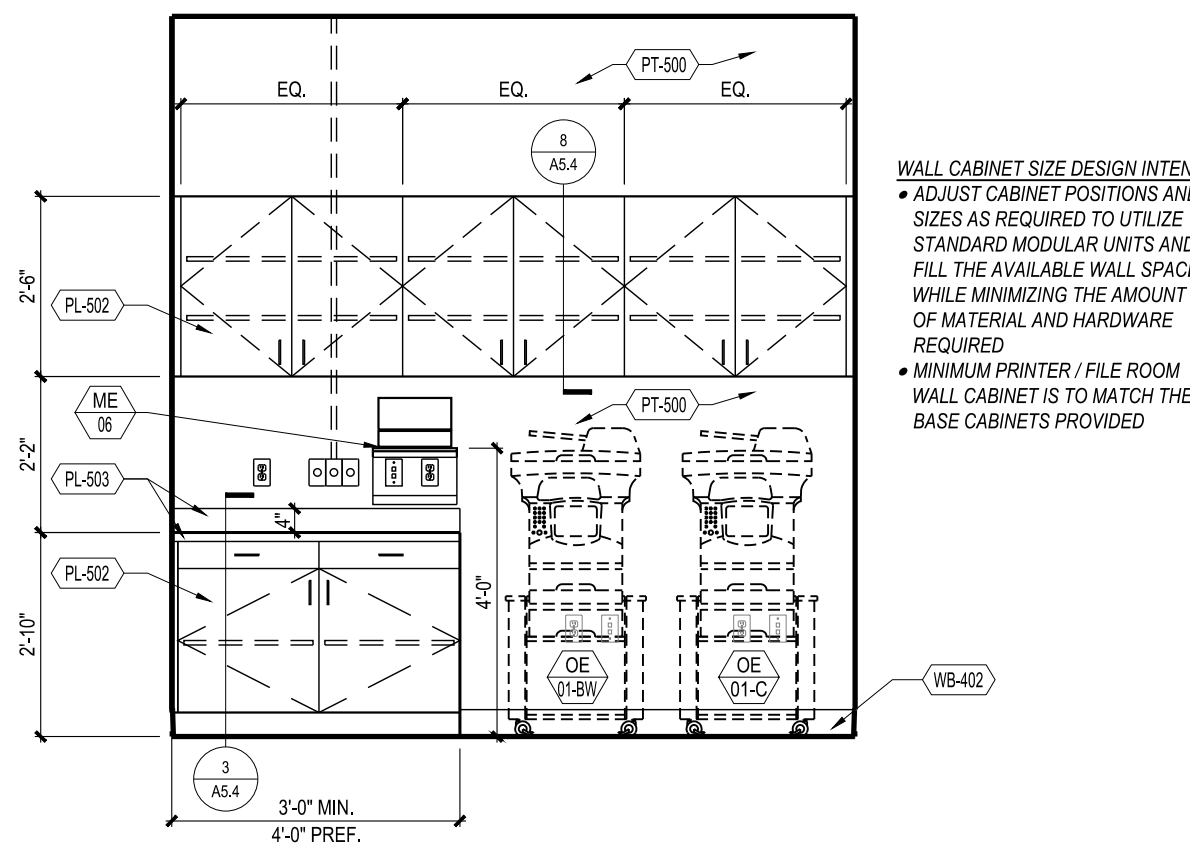
02/04/2022  
 SHEET

**A6.08**

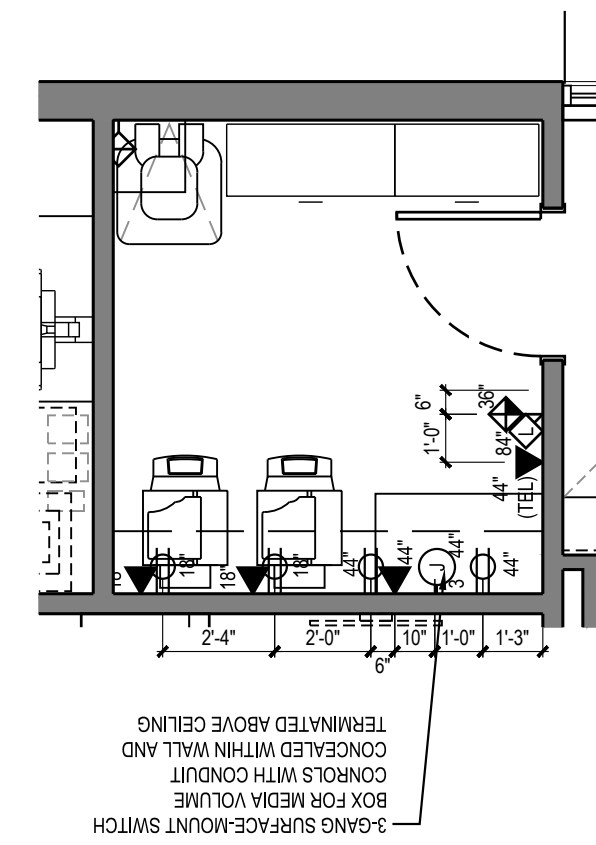




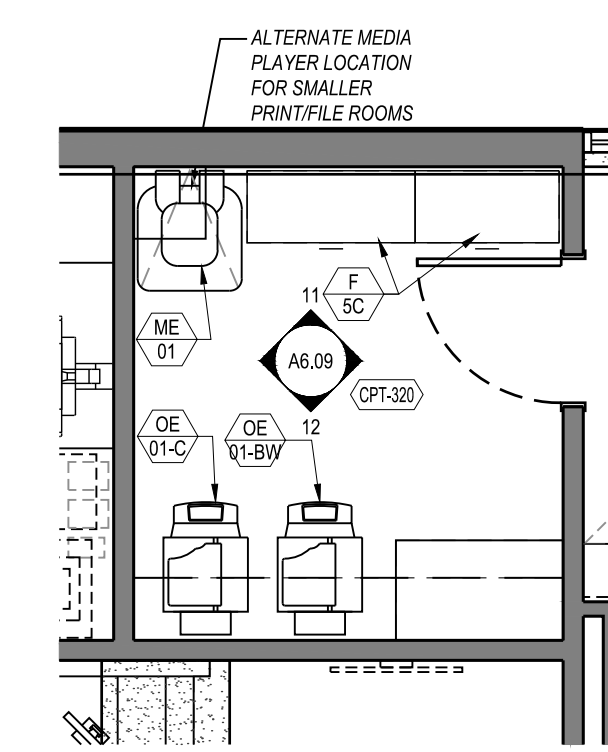
13 INTERIOR ELEVATION  
A6.09 3/8" = 1'-0"



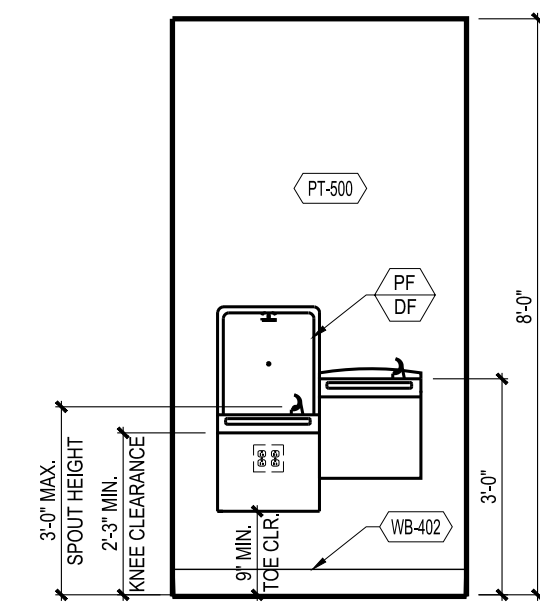
12 INTERIOR ELEVATION  
A6.09 3/8" = 1'-0"



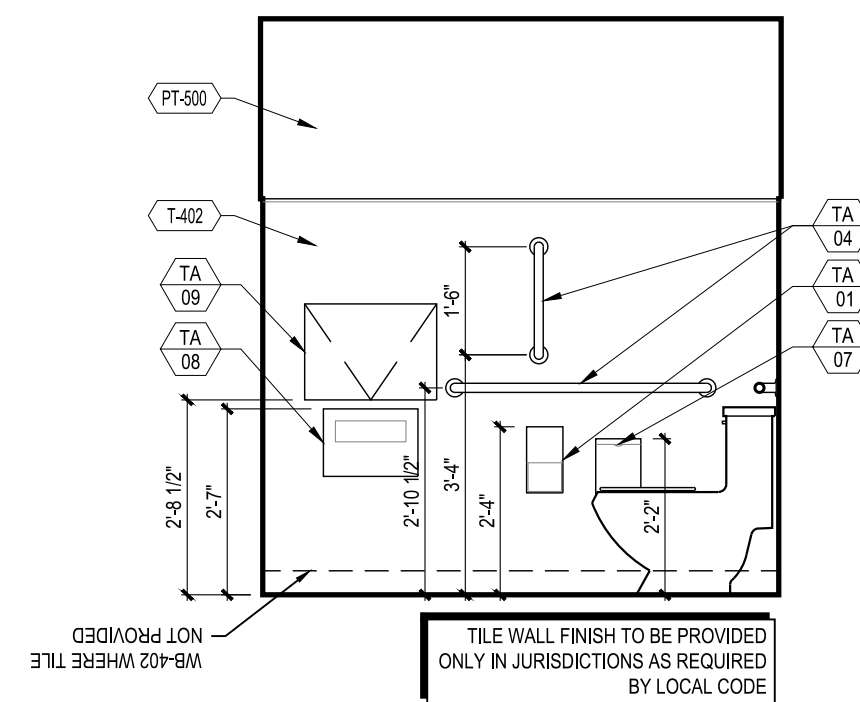
11 ELEC/DATA PLAN  
A6.09 1/4" = 1'-0"



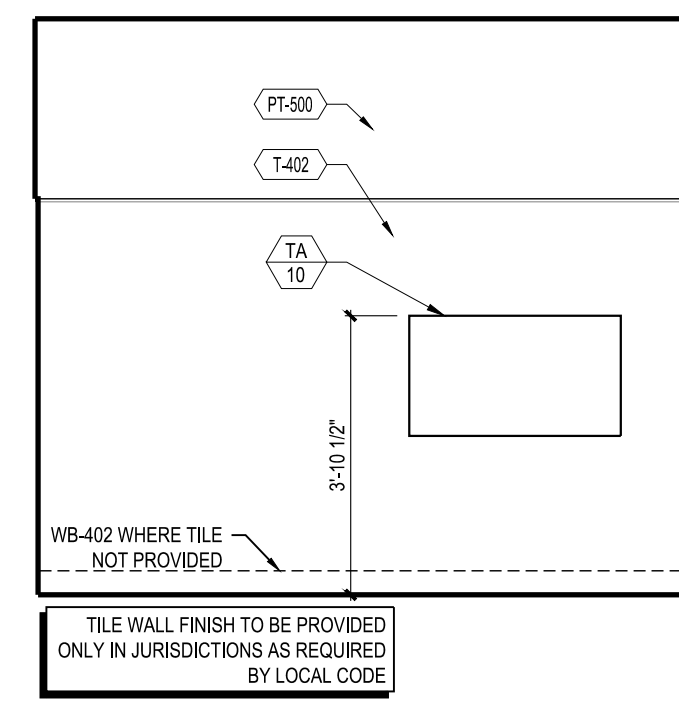
9 FLOOR PLAN  
A6.09 1/4" = 1'-0"



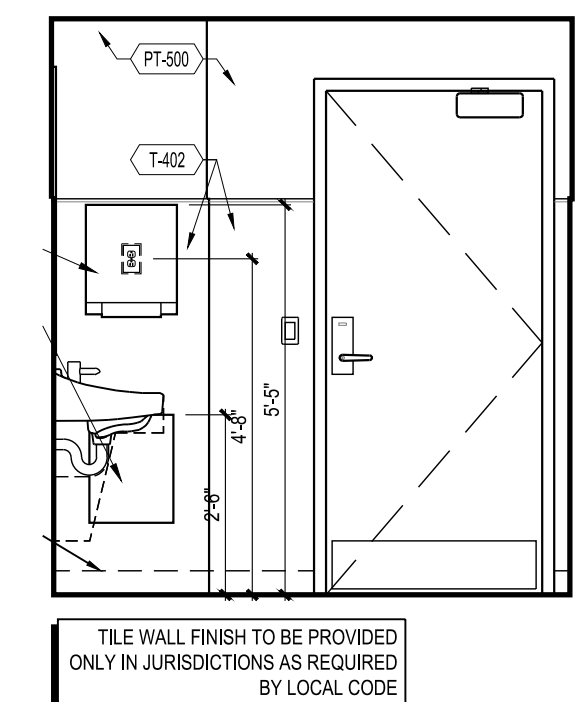
8 ELEVATION-FOUNTAINS  
A6.07 3/8" = 1'-0"



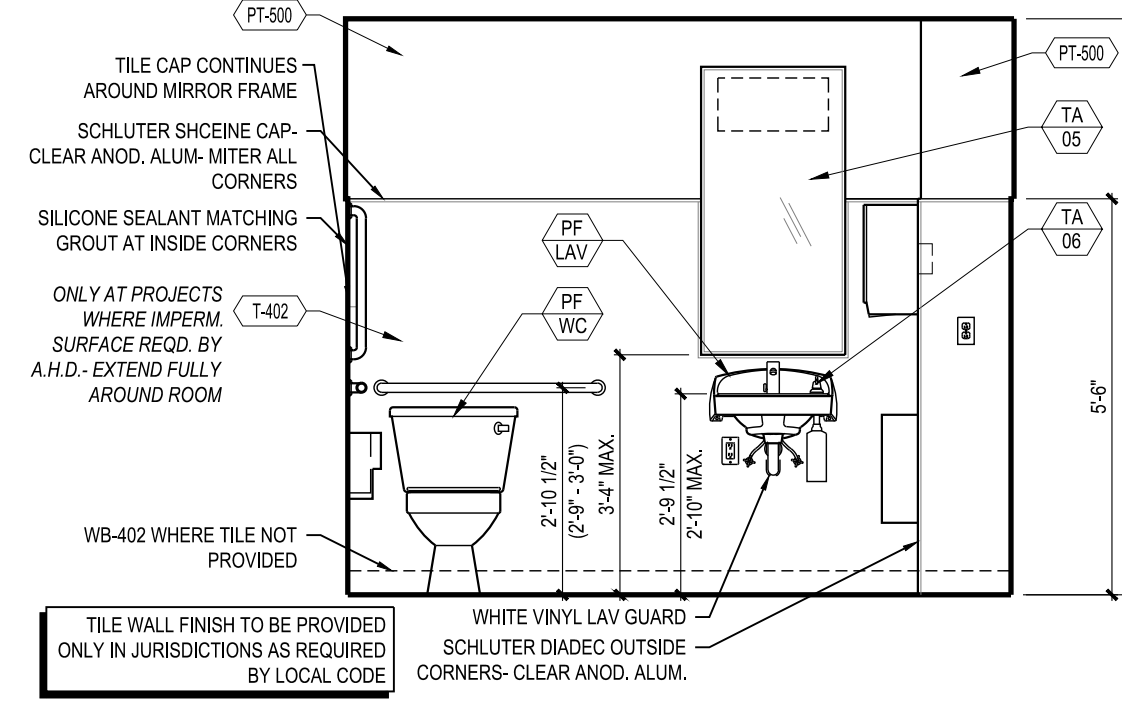
7 ELEVATION-RESTROOM  
A6.07 3/8" = 1'-0"



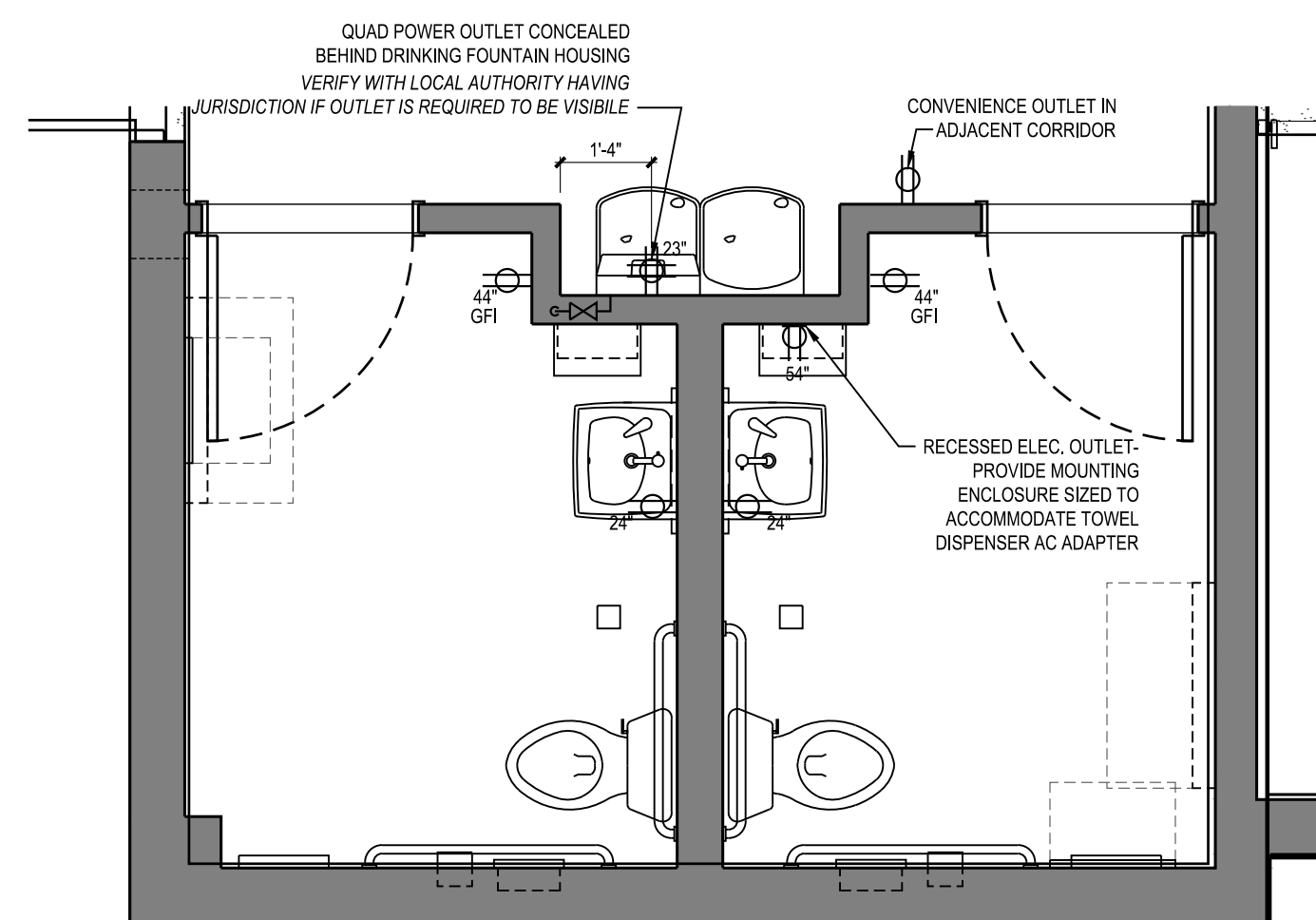
6 ELEVATION-RESTROOM  
A6.07 3/8" = 1'-0"



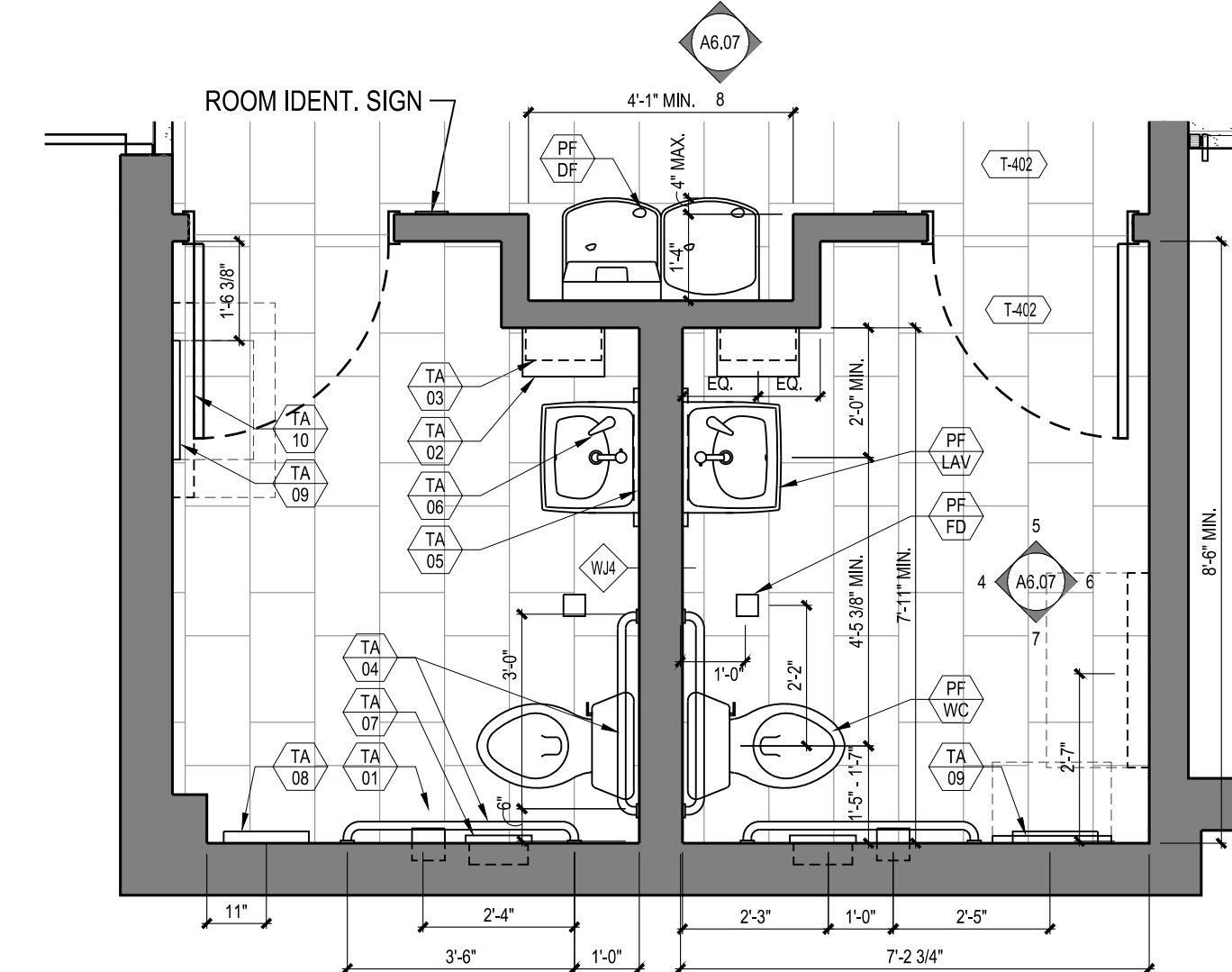
5 ELEVATION-RESTROOM  
A6.07 3/8" = 1'-0"



4 ELEVATION-RESTROOM  
A6.07 3/8" = 1'-0"



3 ELEC. PLAN  
A6.07 3/8" = 1'-0"



1 FLOOR PLAN  
A6.07 3/8" = 1'-0"

PRINT / FILE ROOM

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NUMBER A-2018040323  
ARCHITECT

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RESTROOMS

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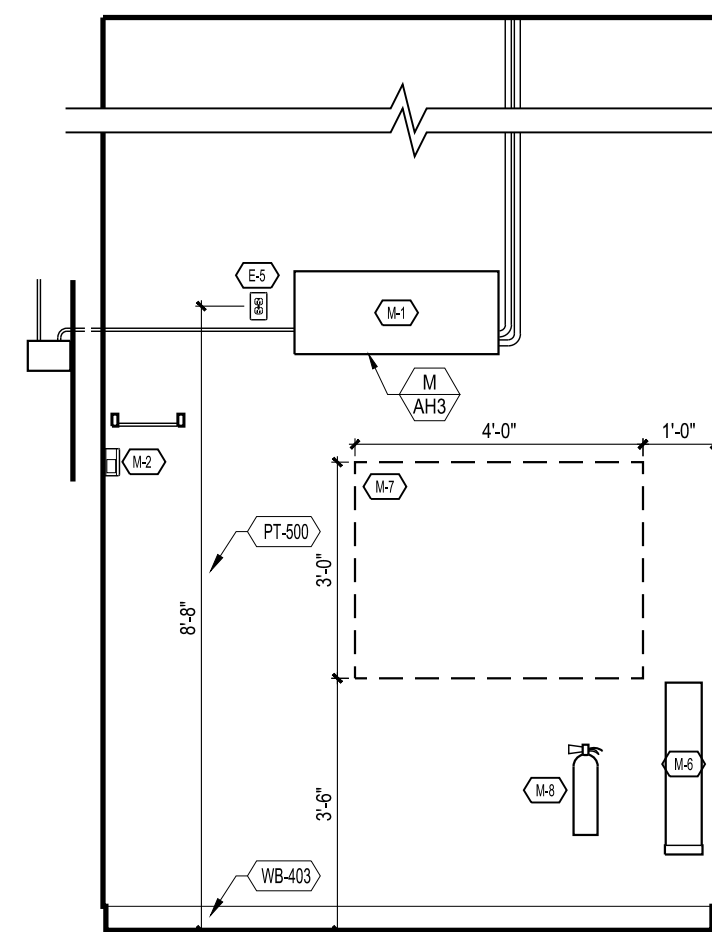
PRYOR & LOWENSTEIN  
PROTOTYPE VERSION 20.4

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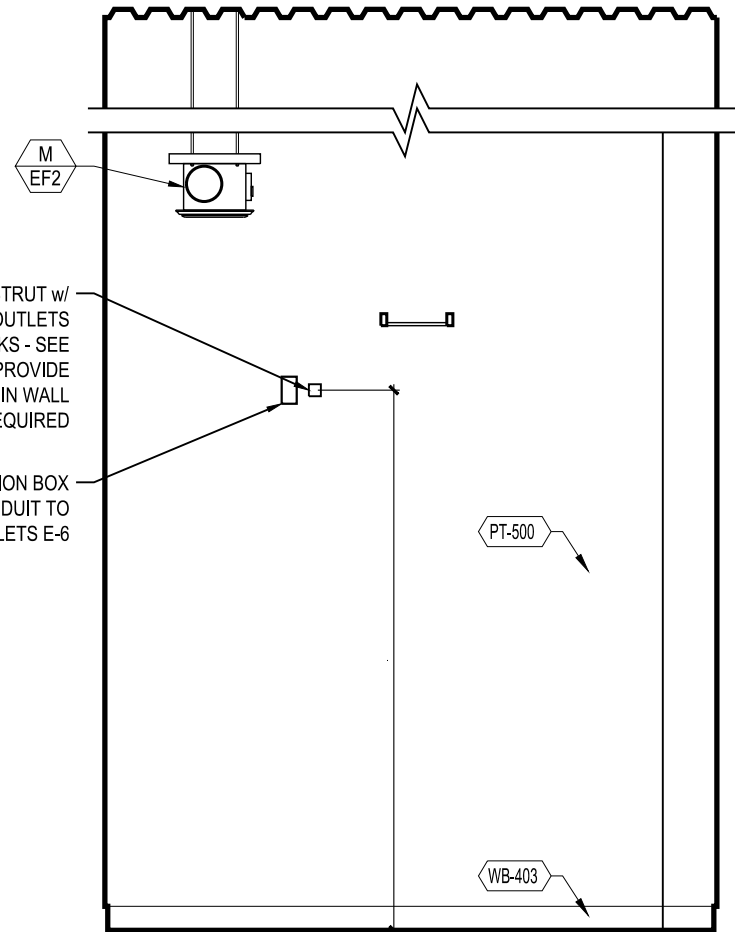
02/04/2022  
SHEET

A6.09

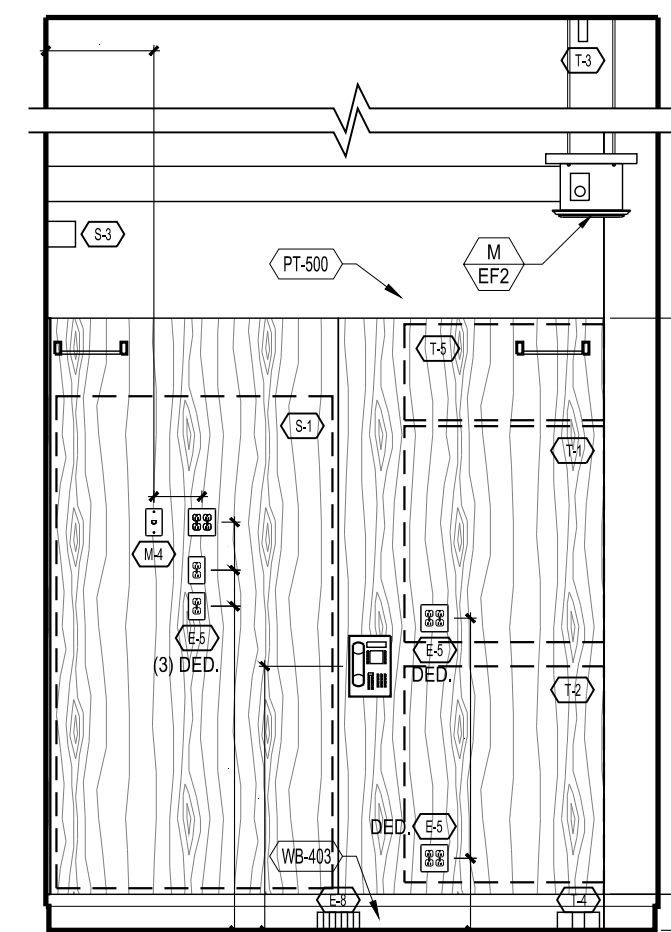
| DATA ROOM DIAGRAM KEY |  |
|-----------------------|--|
| E-1                   | ELEC. PANEL: MAIN (NOT IN DATA ROOM)   |
| E-2                   | ELEC. PANEL: DISTRIBUTION (NOT IN DATA ROOM)   |
| E-3                   | ELEC. PANEL: DISTRIBUTION (NOT IN DATA ROOM)   |
| E-4                   | SURGE PROTECTION DEVICE (NOT IN DATA ROOM)   |
| E-5                   | 120V/20A ELEC. OUTLET- DUPLEX OR QUADRUPLX AS SHOWN- RECESSED OR SURF. MTD.  |
| E-6                   | (2) DEDICATED 208V/30A ELEC. OUTLETS - TWIST-LOCK, NEMA L14-30   |
| E-7                   | (2) DEDICATED 120V/20A ELEC. OUTLETS - NEMA 5-20R  |
| E-8                   | IN-FLOOR CONDUIT TERMINATIONS- REFER TO ELECTRICAL DRAWINGS  |
| E-9                   | MANUAL TOGGLE LIGHT SWITCH   |
| T-1                   | TELECOM CARRIER #1: 36"W X 36"H  |
| T-2                   | TELECOM CARRIER #2: 36"W X 36"H  |
| T-3                   | 1" CONDUIT TO ROOF LOCATION FOR FUTURE ANTENNA CABLING.  |
| T-4                   | (2) 2" CONDUITS FOR TELECOM SERVICE W/ 3-CELL MAXCELL INNERDUCT- COORD. LOCN. W/ UTILITY   |
| T-5                   | CELLULAR TELECOM CARRIER: 36"W X 16"H  |
| D-1                   | DATA RACK / CABLE TRAY COMPONENTS  |
| D-2                   | (2) 4" DATA CABLE SLEEVES PROVIDED AND INSTALLED BY OWNER'S STRUCTURED CABLING CONTRACTOR AFTER WALL FINISH (2 LOCATIONS)  |
| S-1                   | SECURITY EQUIPMENT: 48"W X 66"H  |
| S-2                   | 2" FIRE-RATED SECURITY CABLE SLEEVE PROVIDED AND INSTALLED BY OWNER'S STRUCTURED CABLING CONTRACTOR AFTER WALL FINISH  |
| S-3                   | 4" FIRE-RATED SECURITY CABLE SLEEVE PROVIDED AND INSTALLED BY OWNER'S STRUCTURED CABLING CONTRACTOR AFTER WALL FINISH  |
| M-1                   | FAN COIL UNIT WITH REMOTE CONDENSATE PUMP IN ADJACENT ROOM- PROVIDE DEDICATED SYSTEM THAT MEETS ROOM TEMPERATURE AND HUMIDITY REQUIREMENTS IN JPMC RETAIL STRUCTURED CABLING STANDARDS, APPENDIX B |
| M-2                   | SECURITY MOTION SENSOR   |
| M-4                   | SURFACE-MOUNT DATA NETWORK JACK  |
| M-5                   | WALL BRACKET FOR REMOTE THERMOSTAT   |
| M-6                   | DRAWING STORAGE TUBE   |
| M-7                   | STRUCTURED CABLING FLOOR PLAN: 48"W X 36"H   |
| M-8                   | WALL-MOUNT FIRE EXTINGUISHER- CARBON DIOXIDE ONLY / WATER OR DRY CHEMICAL TYPES NOT PERMITTED, CLASS C OR B-C, 5 LB. OR SMALLER, SET WALL BRACKET TO KEEP HANDLE < 48" AFF                         |
| B-1                   | BMS EQUIPMENT: 15"W X 54"H   |



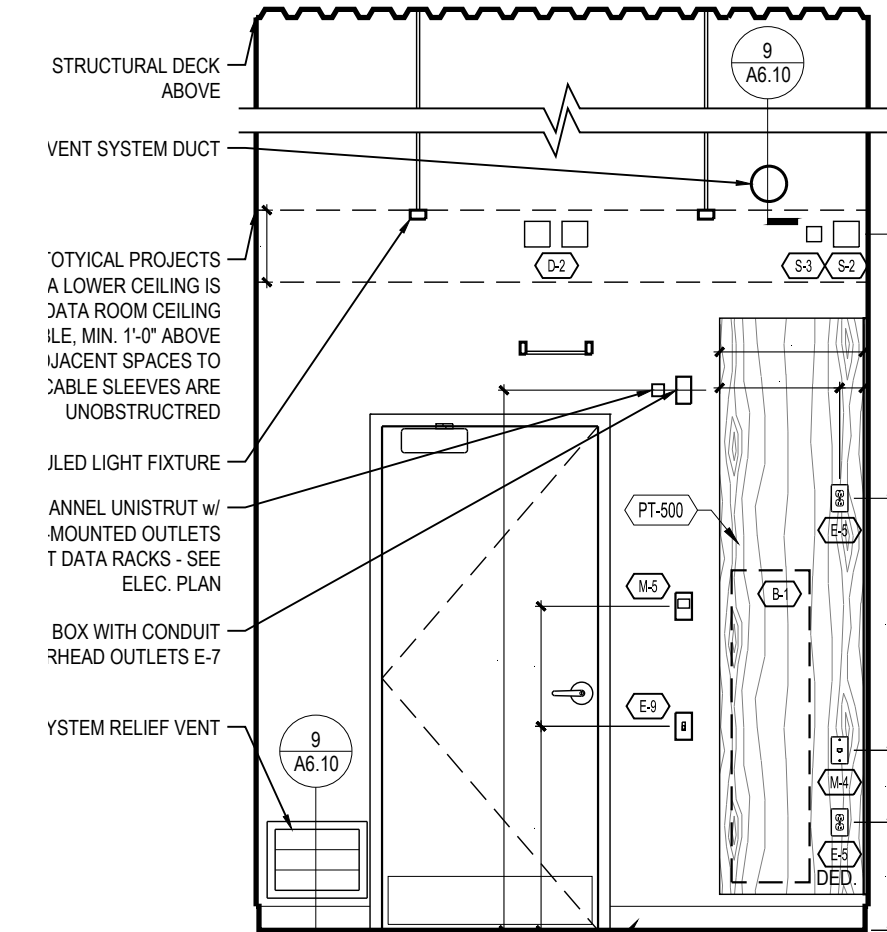
7  
A6.10  
ELEVATION- OPEN WALL  
3/8" = 1'-0"



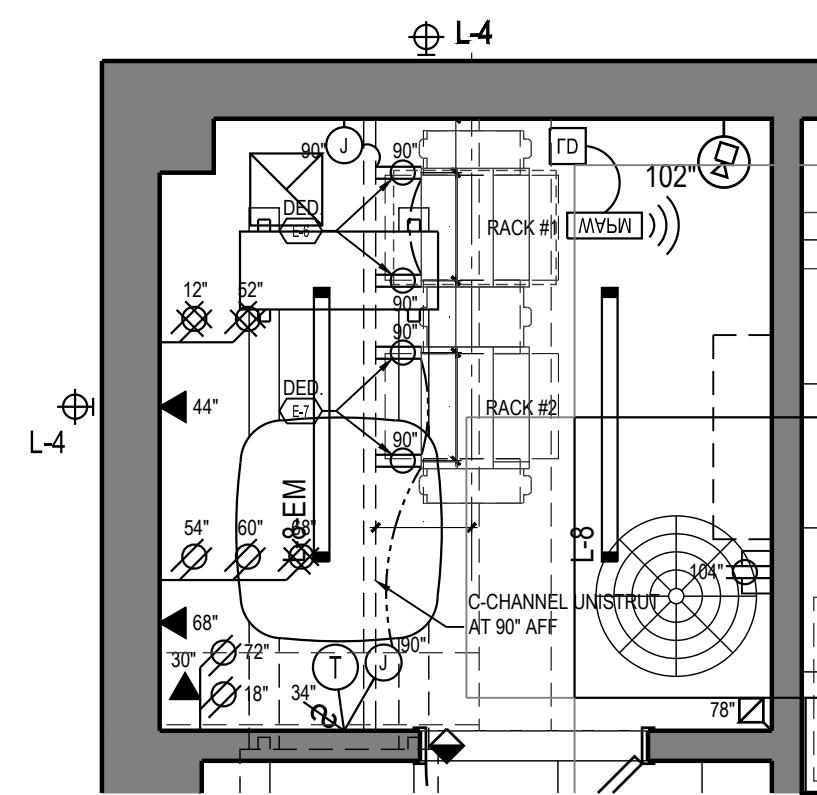
6  
A6.10  
ELEVATION- RACK WALL  
3/8" = 1'-0"



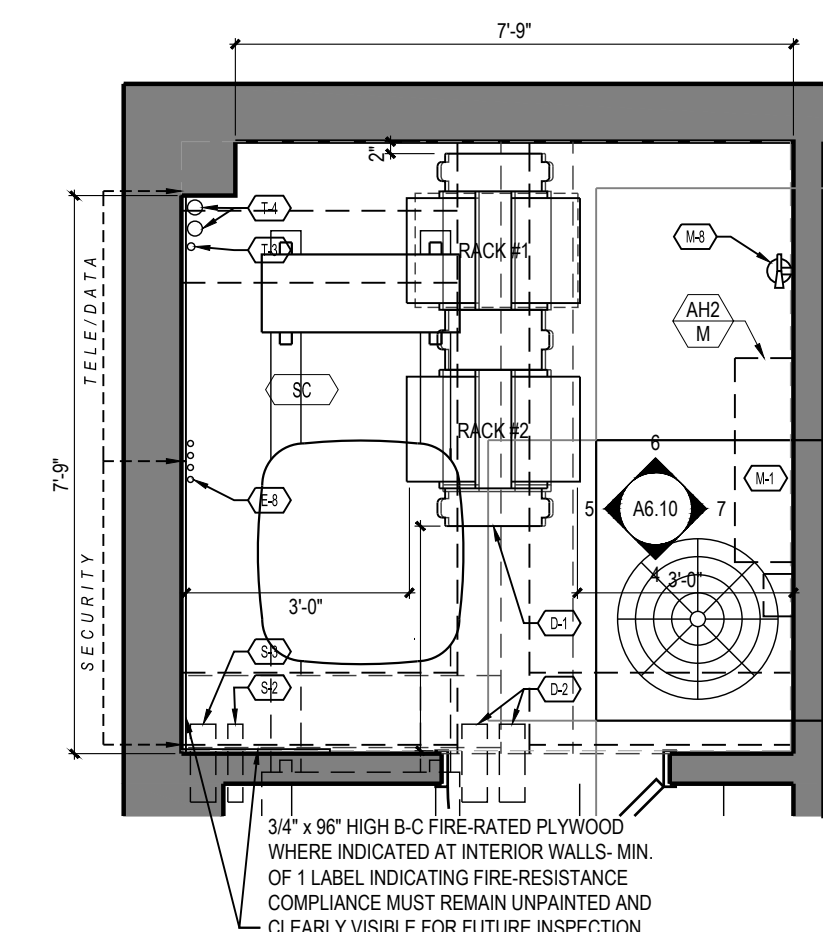
5  
A6.10  
ELEVATION- EQUIPMENT WALL  
3/8" = 1'-0"



4  
A6.10  
ELEVATION- DOOR WALL  
3/8" = 1'-0"



3  
A6.10  
ELEC. SYSTEMS PLAN  
3/8" = 1'-0"



1  
A6.10  
FLOOR PLAN  
3/8" = 1'-0"

STANDARD - 2-RACK

PRYOR ROAD &  
LOWENSTEIN DRIVE  
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LEE'S SUMMIT, MO 64081

EBI JOB #412100090

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PRYOR & LOWENSTEIN  
PROTOTYPE VERSION 20.4

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DATA ROOM

02/04/2022

SHEET

A6.10

PREPARED BY:

**EBI Consulting**

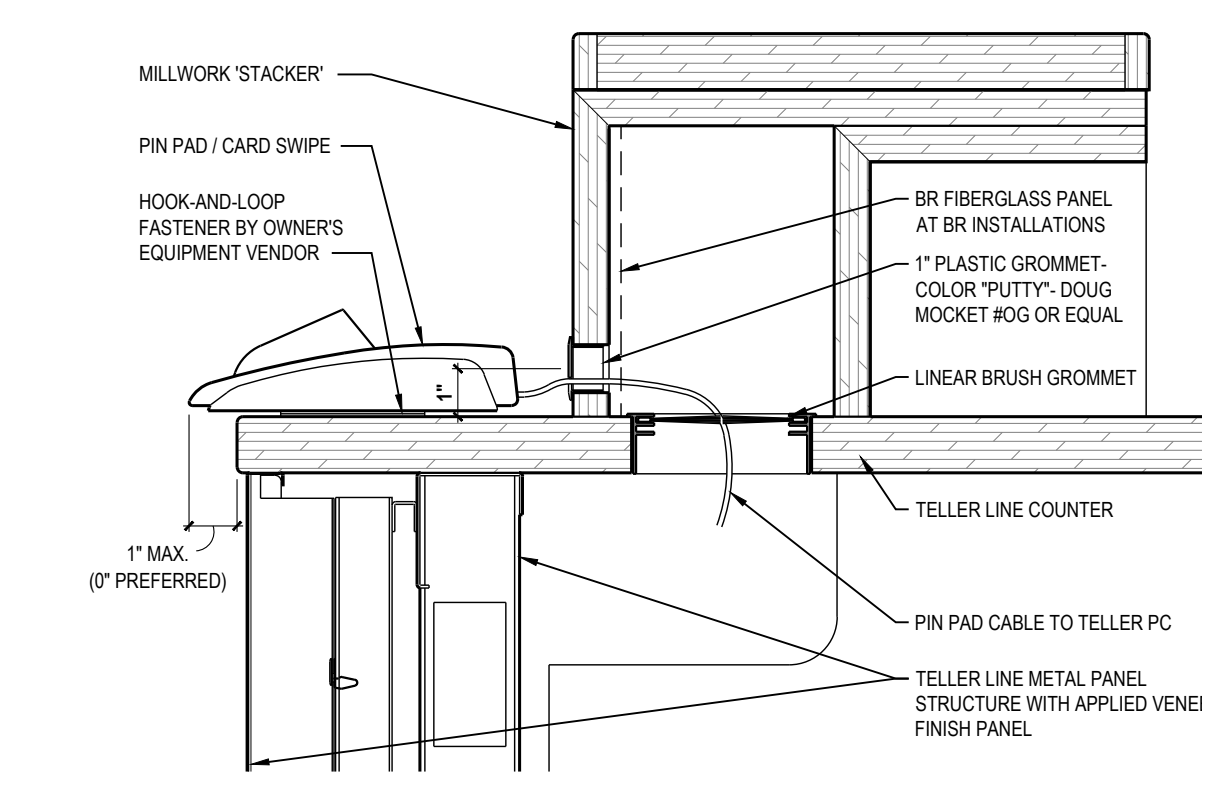
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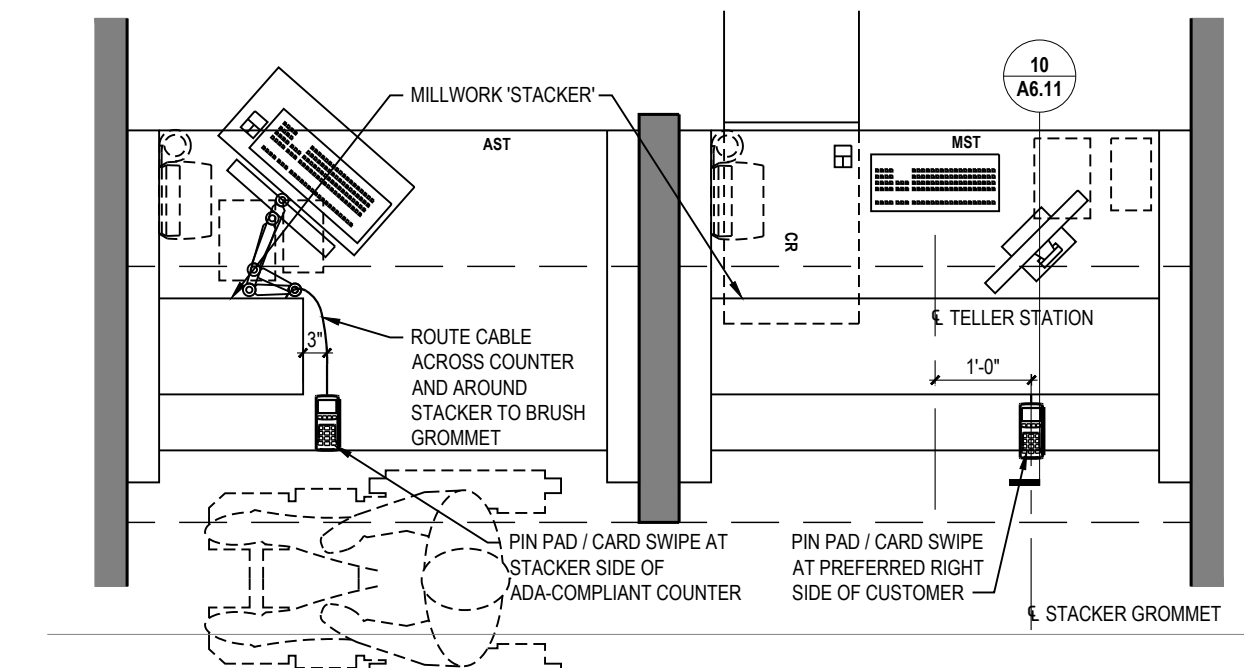
SIGNED BY:



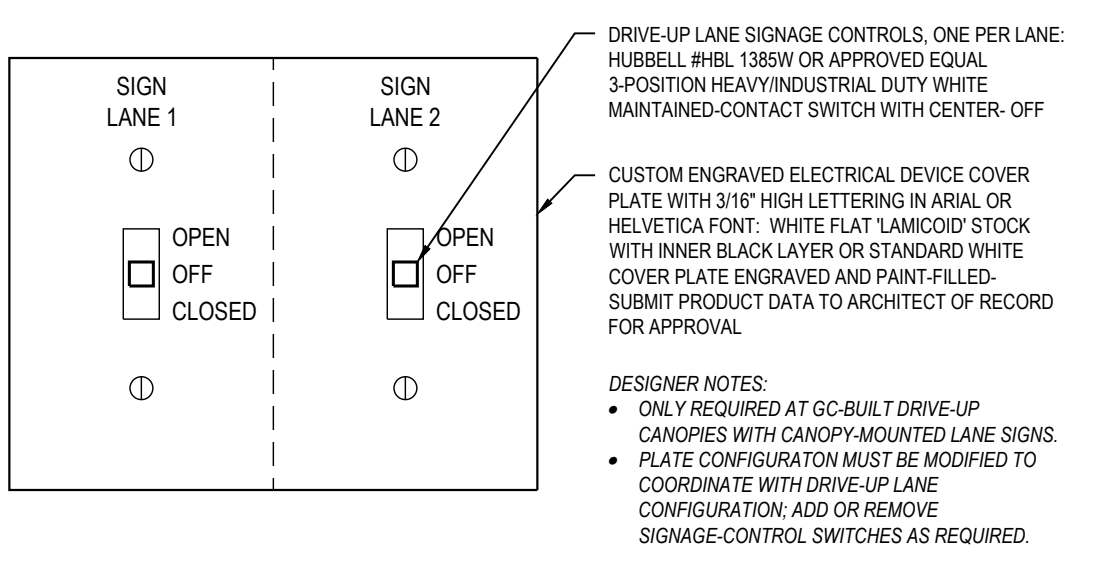
6/1/2022



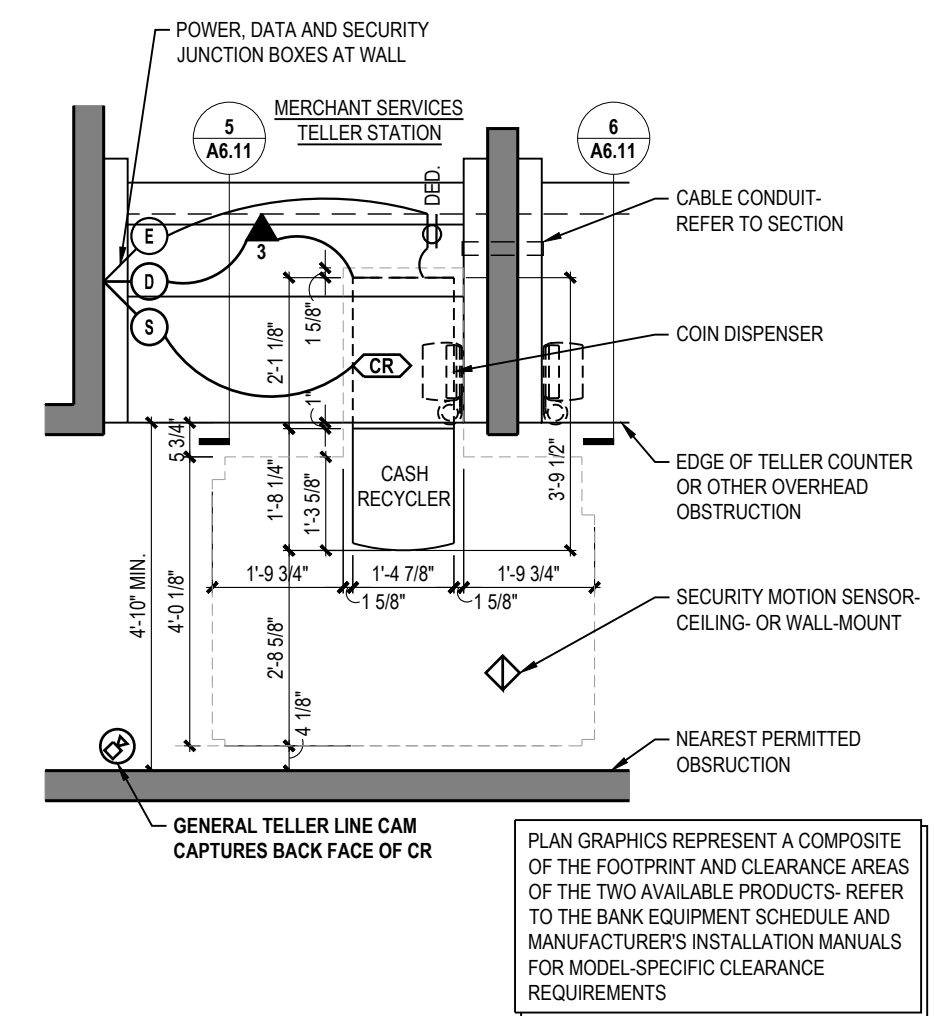
**10 PIN PAD / CARD SWIPE MOUNTING**  
3" = 1'-0"



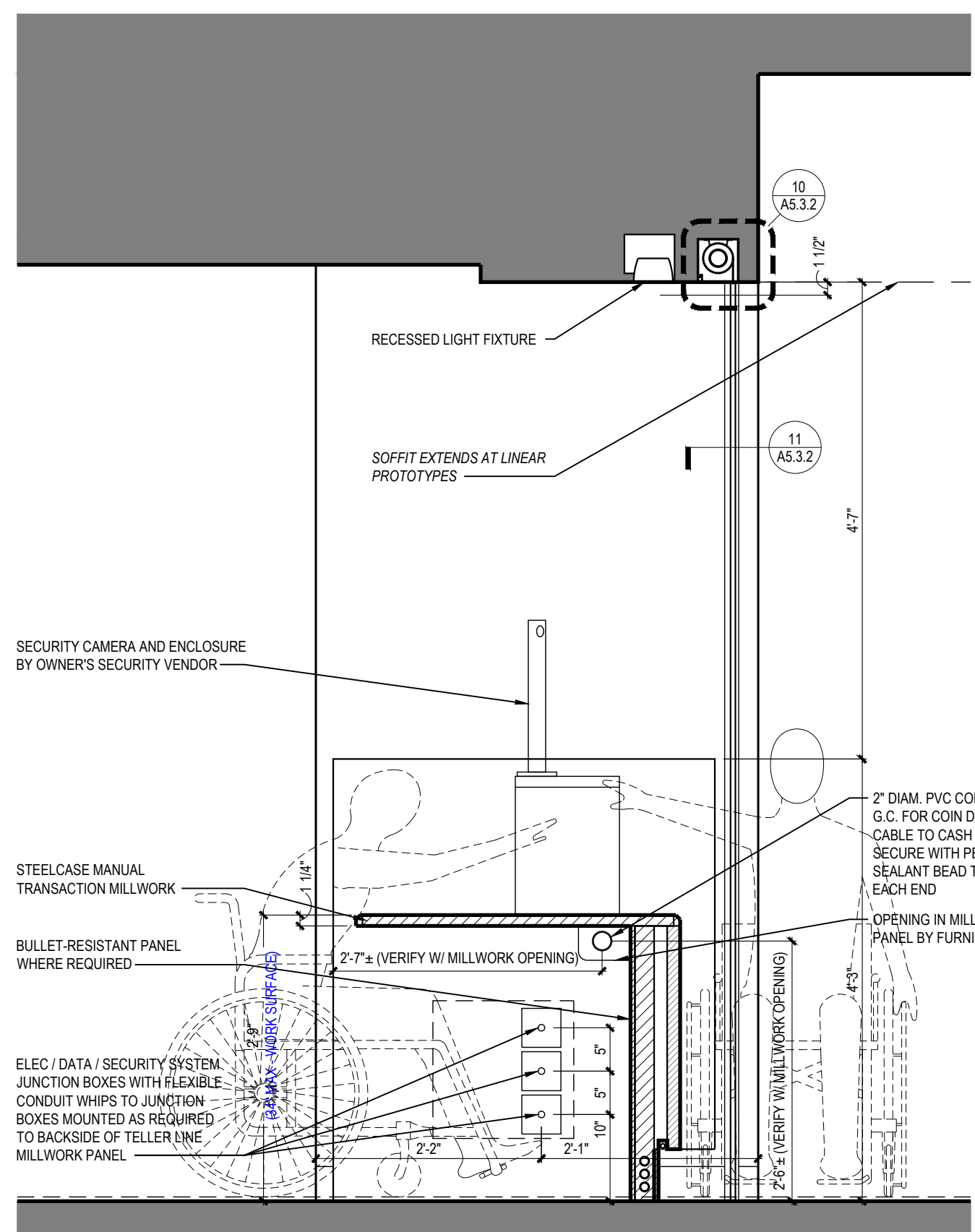
**9 PIN PAD / CARD SWIPE POSITION**  
1/2" = 1'-0"



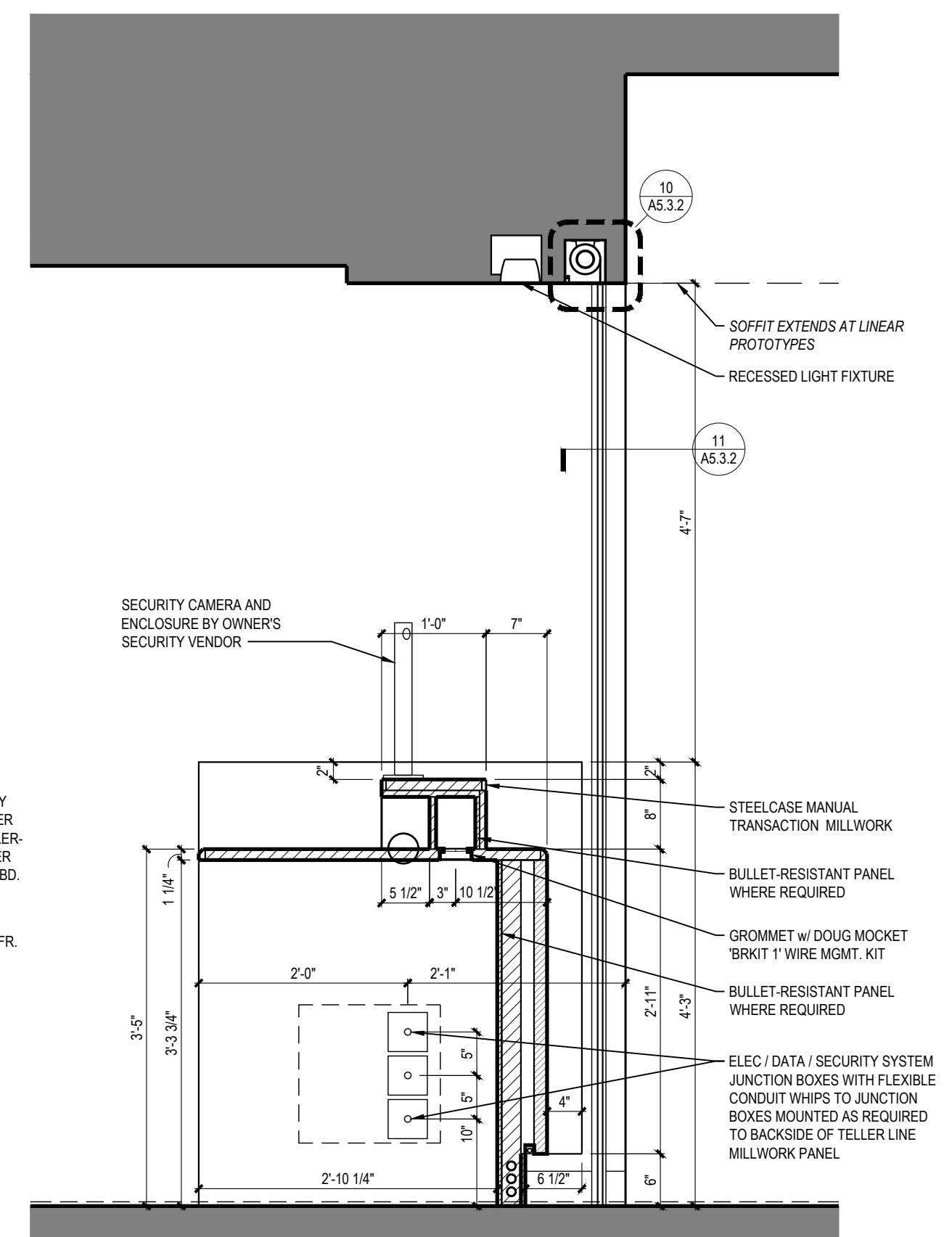
**8 DRIVE-UP CANOPY LIGHTING AND SIGN CONTROLS**  
N.T.S.



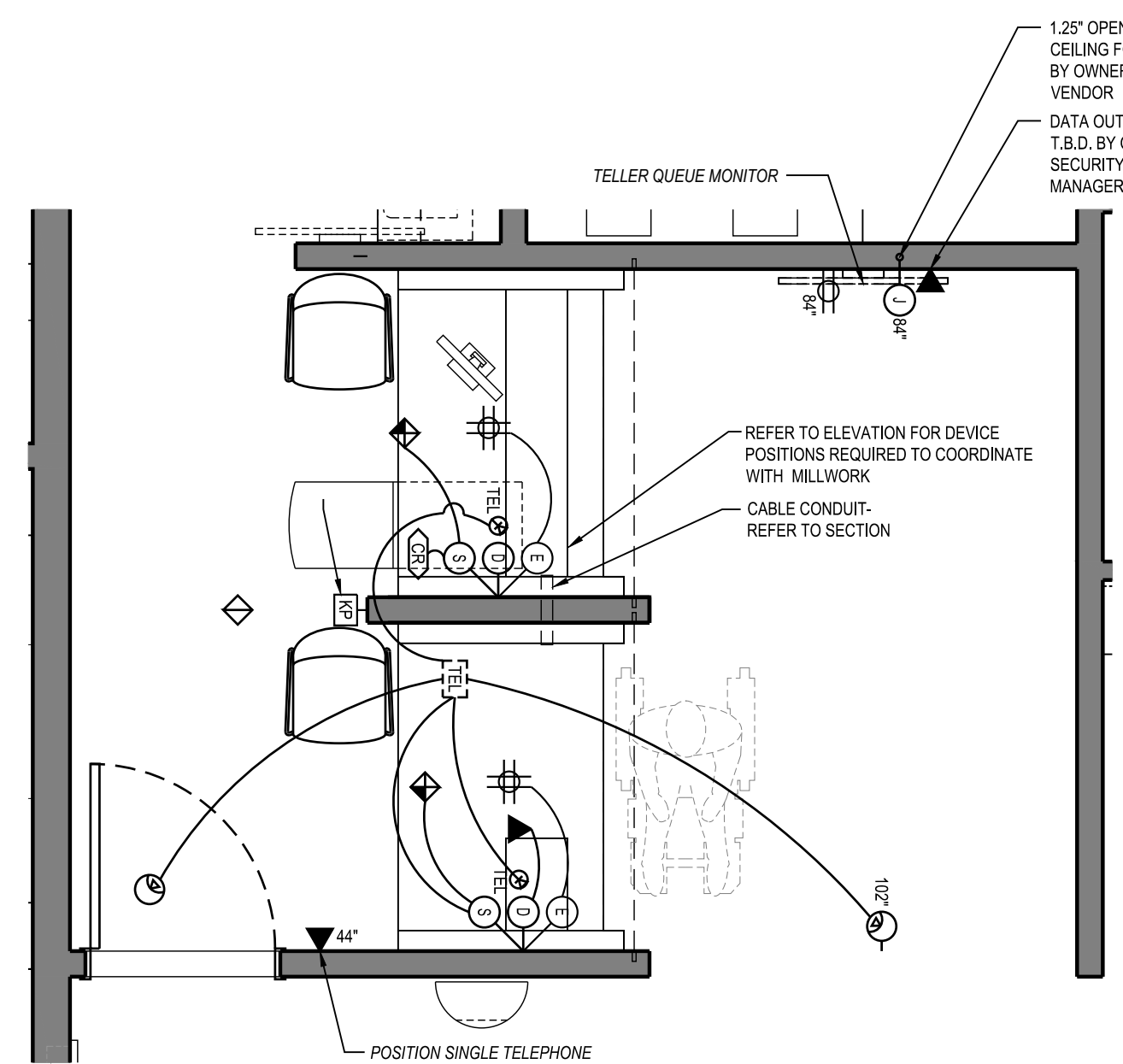
**7 CASH RECYCLER-CLEARANCES AND CONNECTIONS**  
3/8" = 1'-0"



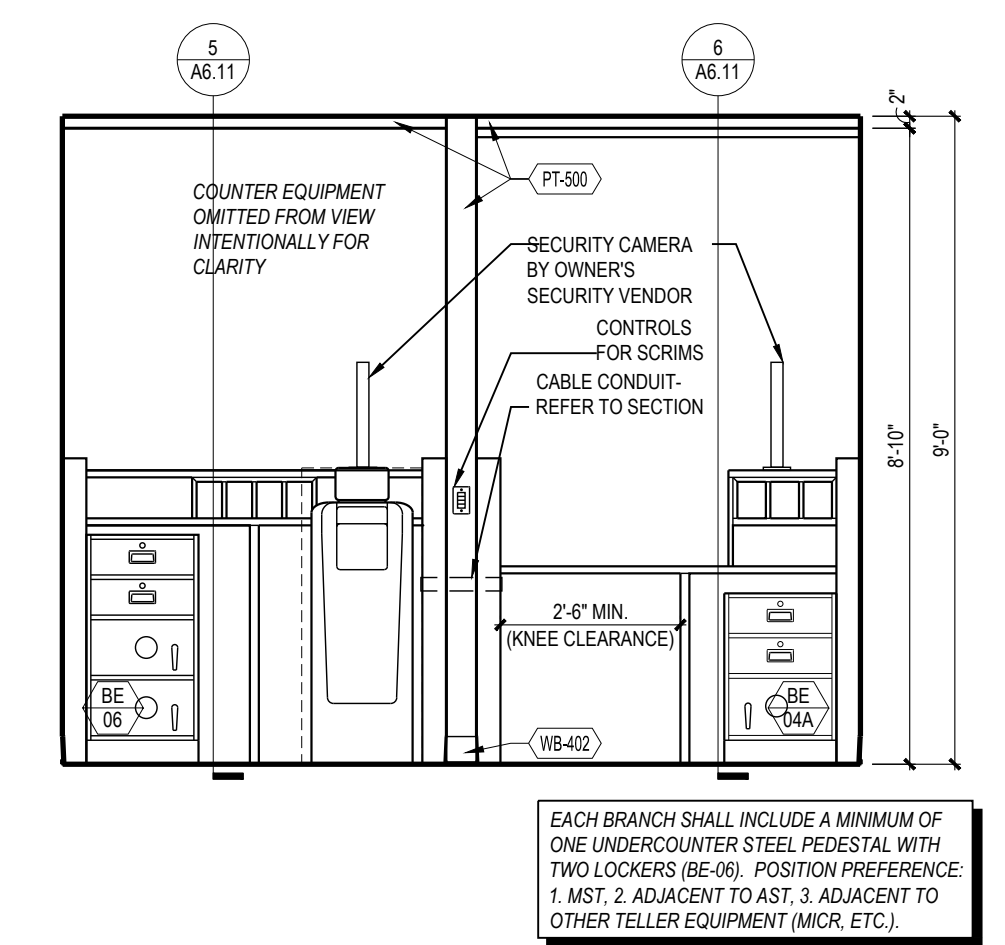
**6 SECTION AT AST**  
3/4" = 1'-0"



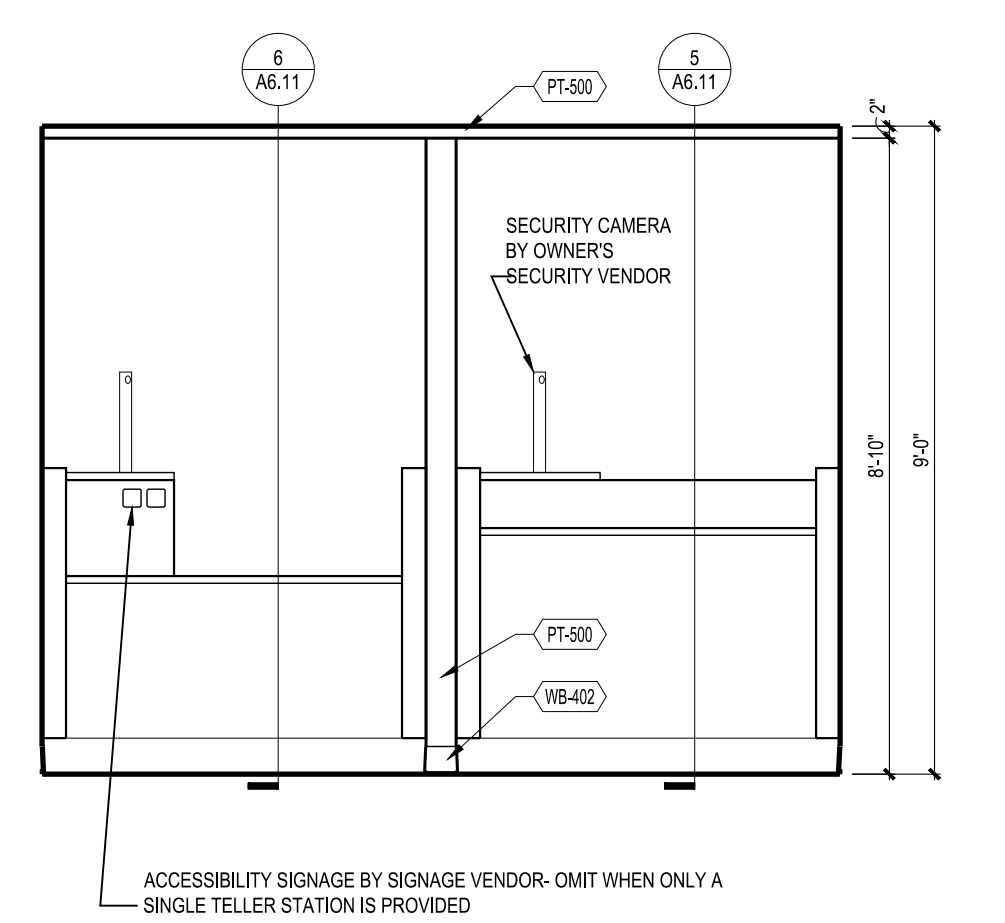
**5 SECTION AT MST**  
3/4" = 1'-0"



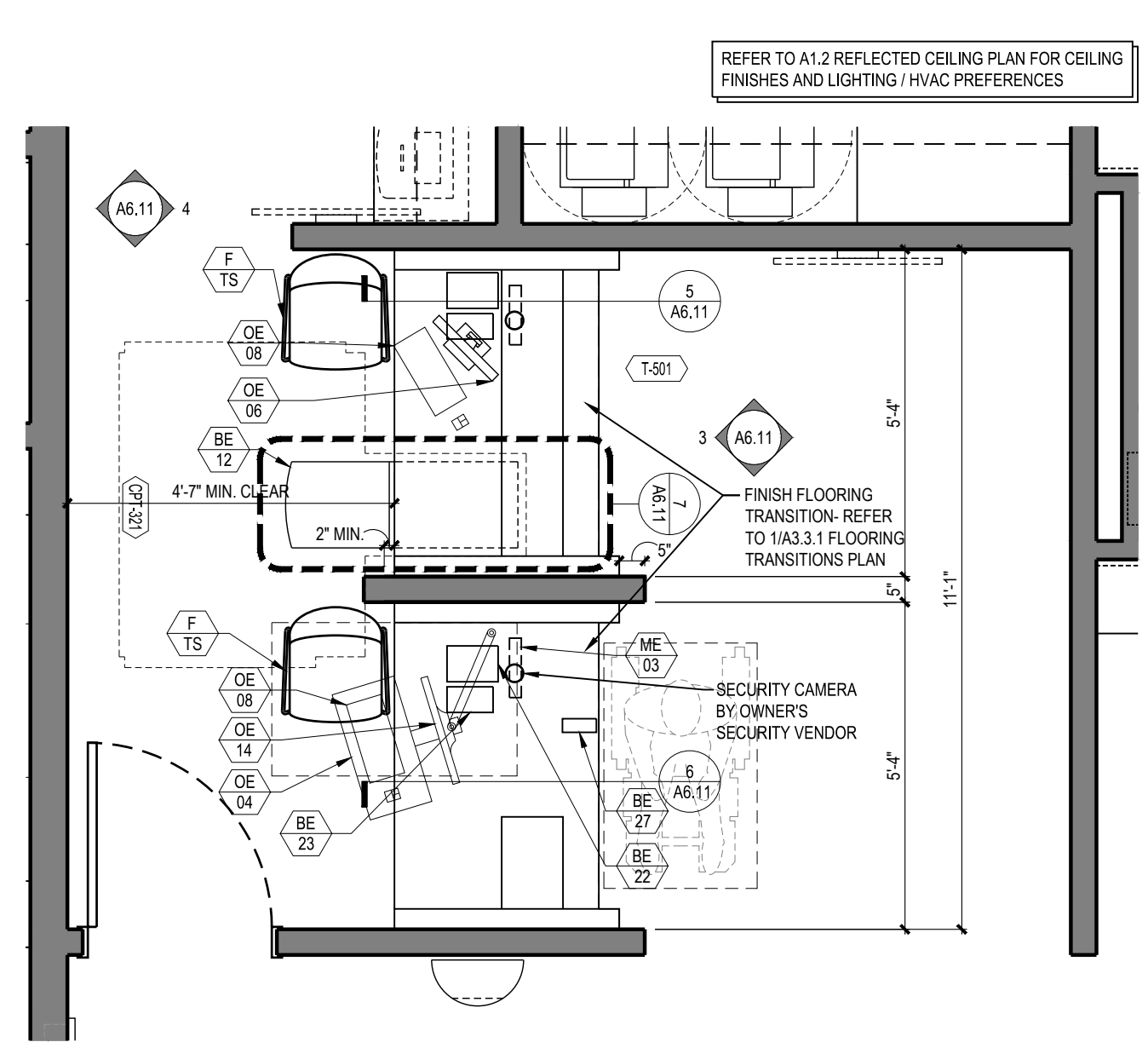
**2 MANUAL TRANSACTIONS ELEC. SYSTEMS PLAN**  
3/8" = 1'-0"



**4 MANUAL TRANSACTIONS TELLER SIDE ELEV.**  
3/8" = 1'-0"



**3 MANUAL TRANSACTIONS CUSTOMER SIDE ELEV.**  
3/8" = 1'-0"



**1 MANUAL TRANSACTIONS FLOOR PLAN**  
3/8" = 1'-0"

**EBC Consulting**  
ENVIRO BUSINESS, INC.  
21 B Street | Burlington, MA 01803  
Tel: (781) 273-2500 | www.ebcconsulting.com

PREPARED BY:  
**JOSHUA W. CARRELL**  
ARCHITECT  
NUMBER A-2018040323  
6/1/2022

**PRYOR ROAD & LOWENSTEIN DRIVE**  
908 NW PRYOR ROAD  
LEE'S SUMMIT, MO 64081

EBC JOB #412100090

| ISSUE | DATE       | DESCRIPTION      |
|-------|------------|------------------|
| 0     | 03/02/2022 | PERMIT           |
| 1     | 04/11/2022 | PERMIT REVISIONS |



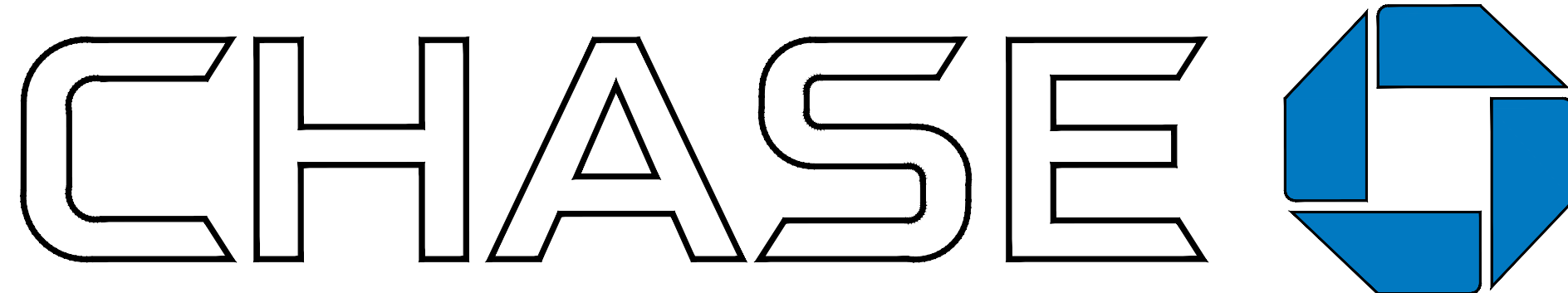
**PRYOR & LOWENSTEIN**  
PROTOTYPE VERSION 20.4

CONTENTS  
MANUAL TRANSACTIONS

02/04/2022  
SHEET

**A6.11**

# SITE DEVELOPMENT PLANS



900 NW PRYOR ROAD, LEE'S SUMMIT, MO 64081

## SHEET INDEX

| EBI CONSULTING DRAWINGS |                              |
|-------------------------|------------------------------|
| SHEET NO.               | SHEET TITLE                  |
| C-1                     | TITLE SHEET                  |
| C-2                     | GENERAL NOTES & LEGEND SHEET |
| C-3                     | SITE PLAN                    |
| C-4                     | GRADING PLAN                 |
| C-5                     | UTILITY & DRAINAGE PLAN      |
| C-6                     | DETAIL SHEET                 |
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|                         |                              |

## SUBMISSION INFO

ISSUED FOR: LOCAL APPROVALS  
 DATE ISSUED: MARCH 11, 2022  
 LATEST ISSUE: MARCH 11, 2022



LOCUS MAP

SCALE: 1"=100'

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| <b>APPLICANT</b><br>EBI CONSULTING<br>21 B. STREET<br>BURLINGTON, MA 01803<br>TEL: (781) 273 - 2500 | <b>ASSESSOR'S INFORMATION</b><br>PARCEL #<br>51-800-04-28-00-0-00-0000 |
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## PROJECT TEAM

|  |   |
|--|---|
| <b>ARCHITECT</b><br>EBI CONSULTING<br>21 B. STREET<br>BURLINGTON, MA 01803<br>TEL: (781) 273 - 2500          | <b>LANDSCAPE ARCHITECT</b><br>JAY MILLER, RLA<br>2095 VT ROUTE 18<br>WATERFORD, VT 05819<br>TEL: (802) 535 - 8586 |
| <b>ENGINEER OF RECORD</b><br>EBI CONSULTING<br>21 B. STREET<br>BURLINGTON, MA 01803<br>TEL: (781) 273 - 2500 |   |

## REFERENCE PLAN

**LANDLORDS PLANS**  
 PLAN ENTITLED "STREETS OF WEST PRYOR LOT #9" PREPARED BY: SM ENGINEERING,  
 SCALE: 1"=20', DATED: 1/17/22

PREPARED BY: **Ebi Consulting**  
 environmental | engineering | design  
 21 B Street | Burlington, MA 01803  
 Tel: 781.273.2500 | Fax: 781.273.3311  
 www.ebiconsulting.com

STATE OF MISSOURI  
 ANTHONY E. FARMAND  
 PE-2012000032  
 PROFESSIONAL ENGINEER  
 11 March 2022  
 Expiration 31 Dec 2022

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| NO. | DESCRIPTION | DATE | INIT |
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**811**  
 Know what's below.  
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|   |                         |
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| PROJECT TITLE<br>SITE DEVELOPMENT PLANS                   | PROJECT #<br>4121000090 |
| SHEET TITLE<br>TITLE SHEET                                |                         |
| SITE ADDRESS<br>900 NW PRYOR RD<br>LEE'S SUMMIT, MO 64081 |                         |

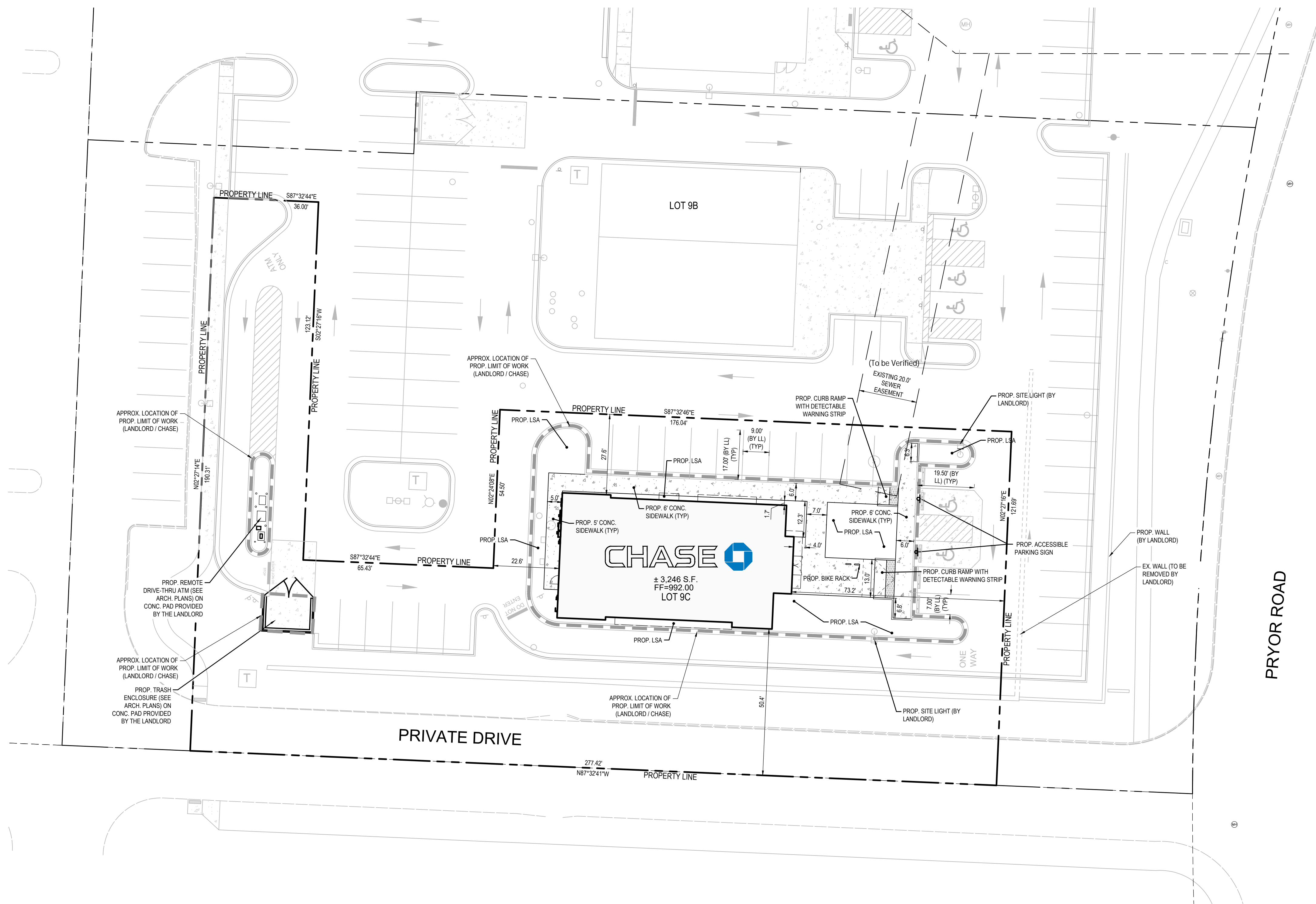
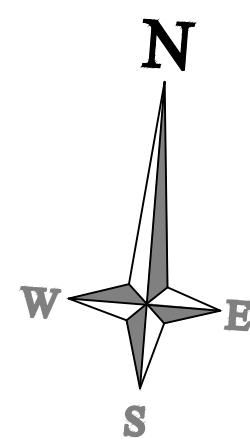
C-1  
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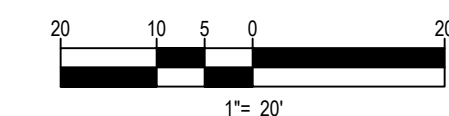
PRYOR ROAD

PRIVATE DRIVE

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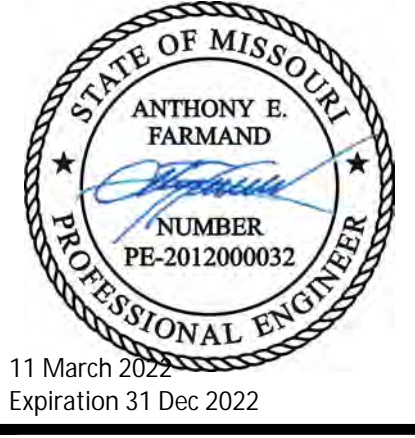
REFER TO GENERAL NOTES & LEGEND SHEET FOR NOTES & SPECIFICATIONS

THIS PLAN TO BE UTILIZED FOR SITE LAYOUT PURPOSES ONLY



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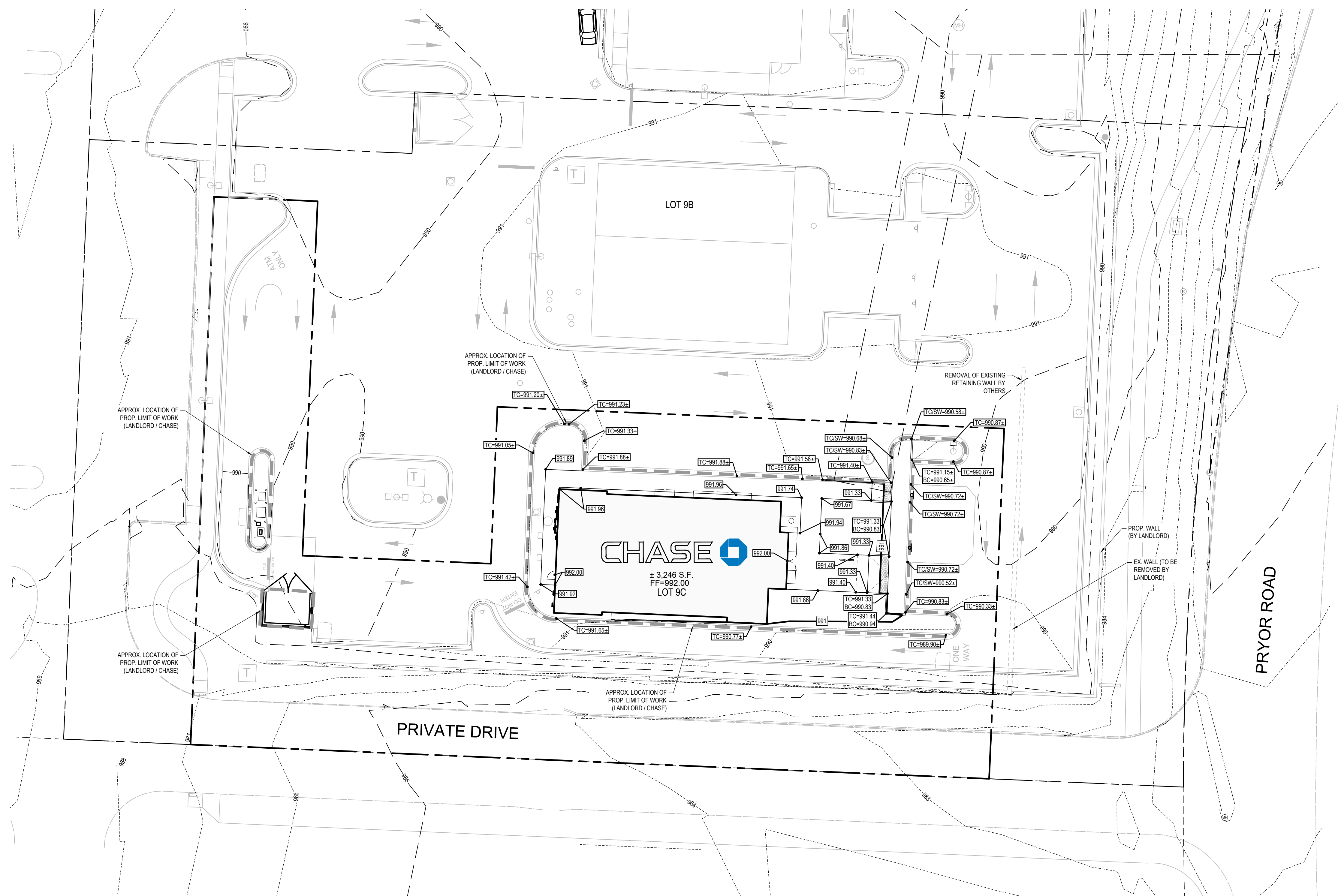
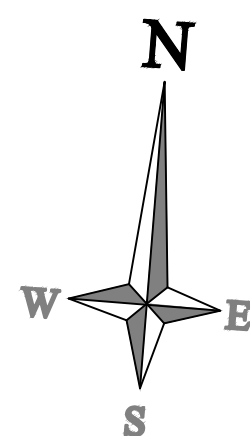


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DRAWN BY: EO  
 REVIEWED BY: KS  
 ISSUE DATE: 03/08/2022  
 SCALE: AS SHOWN  
 PROJECT #: 4121000090

PROJECT TITLE: SITE DEVELOPMENT PLANS  
 SHEET TITLE: SITE PLAN  
 SITE ADDRESS: 900 NW PRYOR RD  
 LEE'S SUMMIT, MO 64081

C-3  
 SHEET NO.



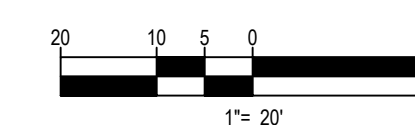
**BENCHMARKS:**

- #1 CHISELED "SQUARE" ON TOP OF CURB POINT OF INTERSECTION OF WEST PARK PARKING LOT AT EAST DRIVE ENTRANCE  
ELEVATION 985.05
- #2 CHISELED "SQUARE" ON NORTHWEST CORNER AREA INLET, 25' EAST OF CURB LINE AND ON-LINE WITH SOUTH CURB OF LOWENSTEIN DRIVE AT 90° BEND IN ROAD  
ELEVATION 971.06

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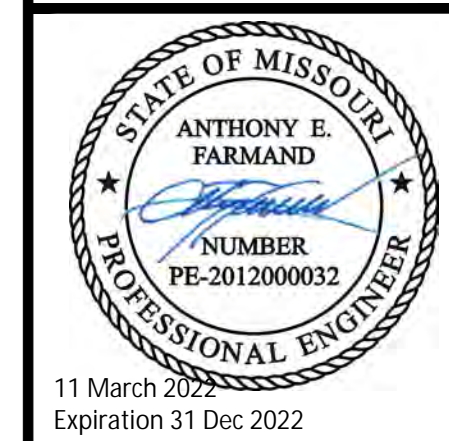
THIS PLAN TO BE UTILIZED FOR SITE GRADING PURPOSES ONLY

REFER TO GENERAL NOTES & LEGEND SHEET FOR GRADING & UTILITY NOTES



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 EO

REVIEWED BY:  
 KS

ISSUE DATE:  
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SCALE:  
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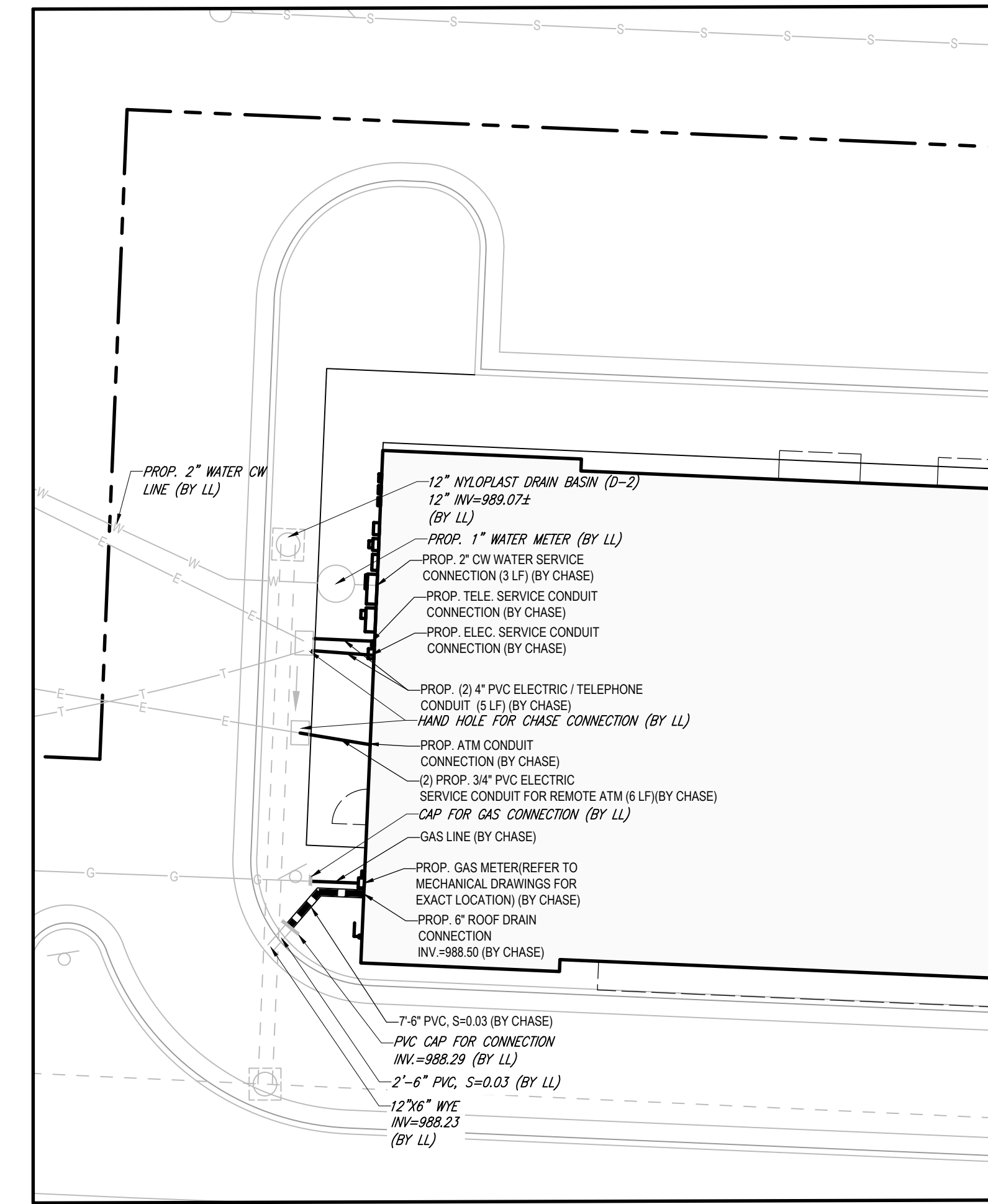
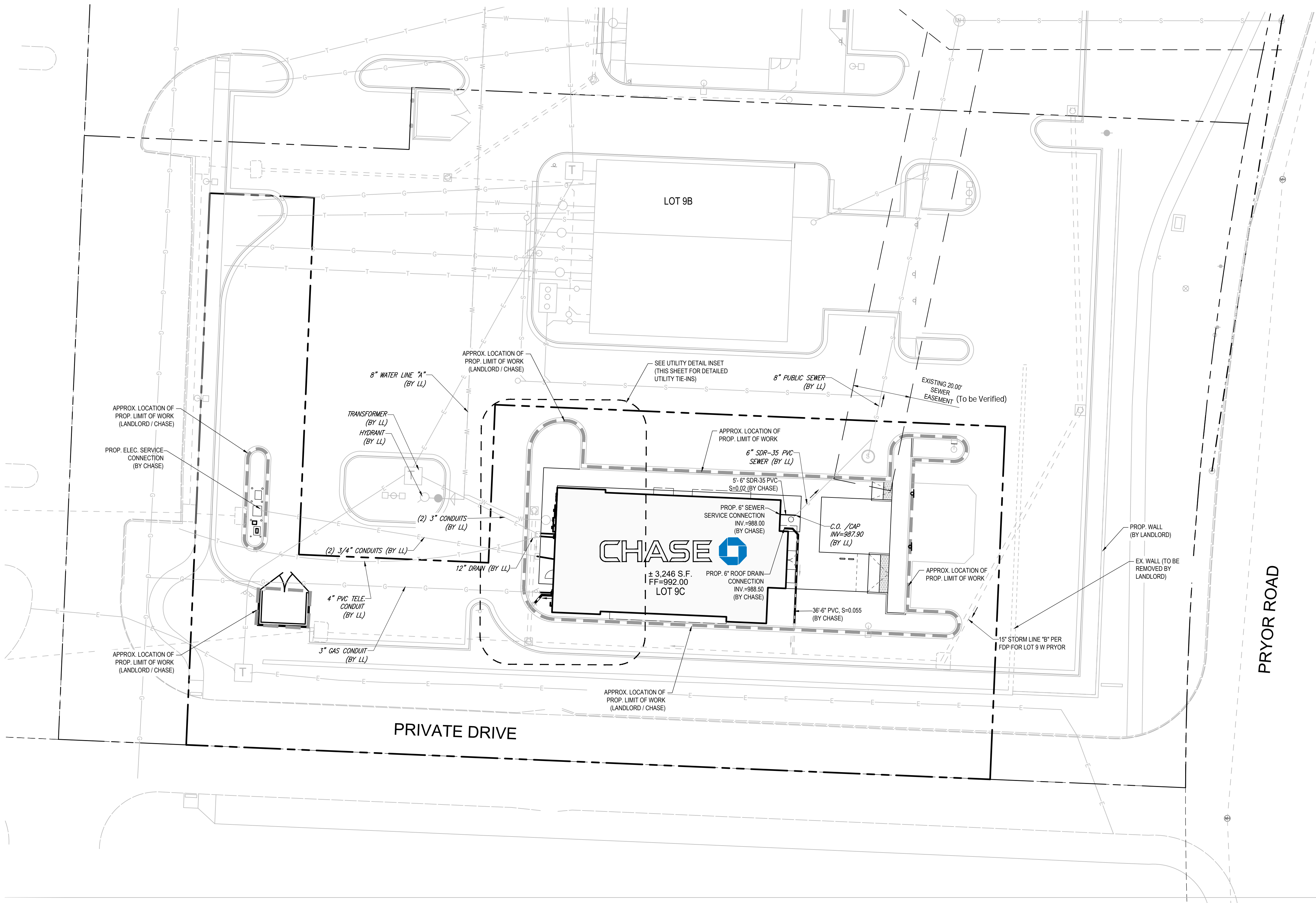
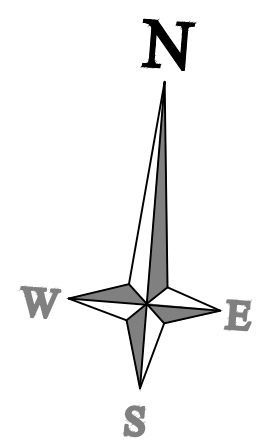
PROJECT #:  
 4121000090

PROJECT TITLE:  
**SITE DEVELOPMENT PLANS**

SHEET TITLE:  
**GRADING PLAN**

SITE ADDRESS:  
 900 NW PRYOR RD  
 LEE'S SUMMIT, MO 64081

SHEET NO. **C-4**

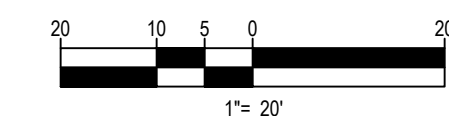


UTILITY DETAIL INSET  
SCALE: 1"=10'

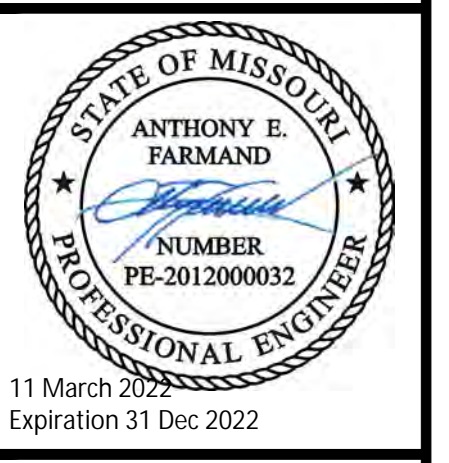
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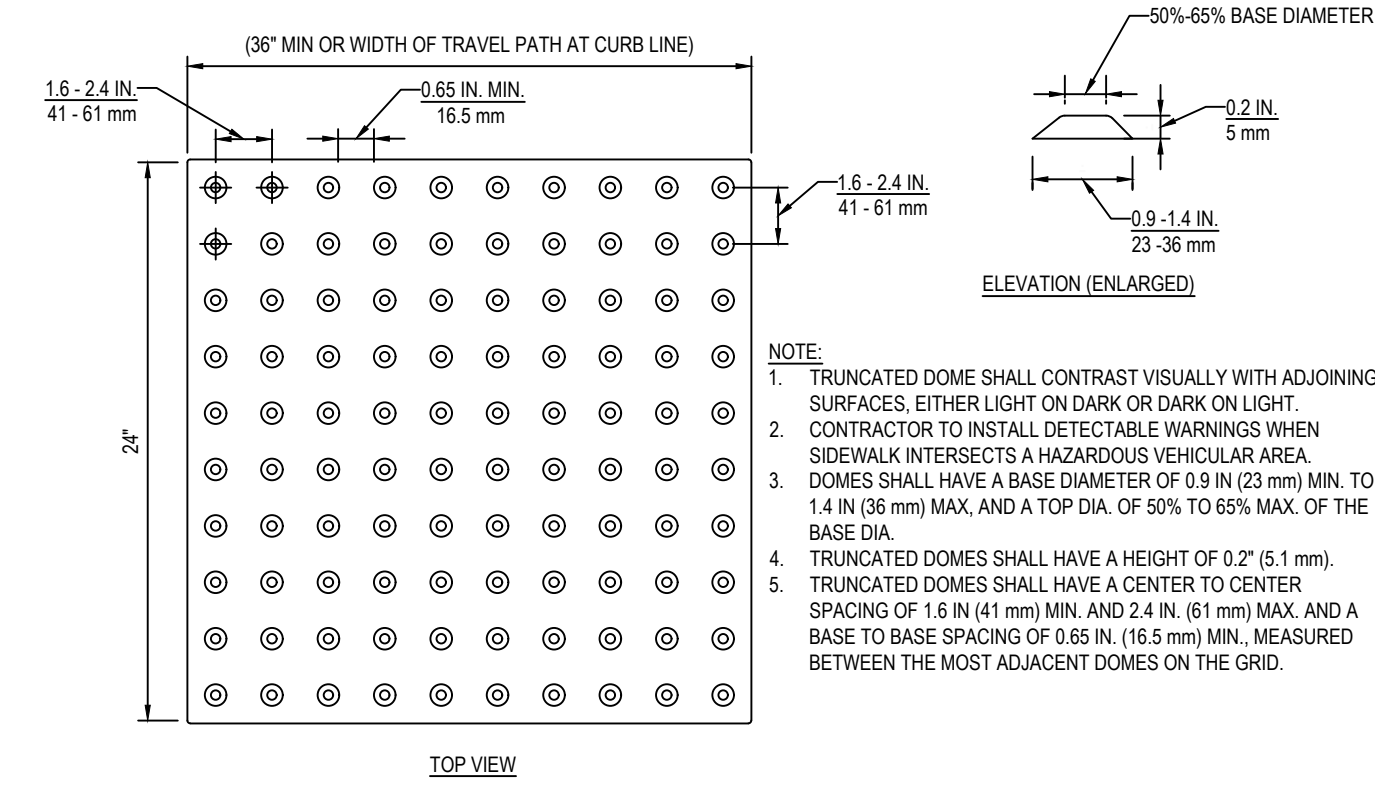


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|---------------|---|
| PROJECT TITLE | SITE DEVELOPMENT PLANS                    |
| SHEET TITLE   | UTILITY & DRAINAGE PLAN                   |
| PROJECT #     | 900 NW PRYOR RD<br>LEE'S SUMMIT, MO 64081 |
| PROJECT #     | 4121000090                                |
| DESIGNED BY   | EO  |
| REVIEWED BY   | KS  |
| ISSUE DATE    | 03/08/2022                                |
| SCALE         | AS SHOWN                                  |



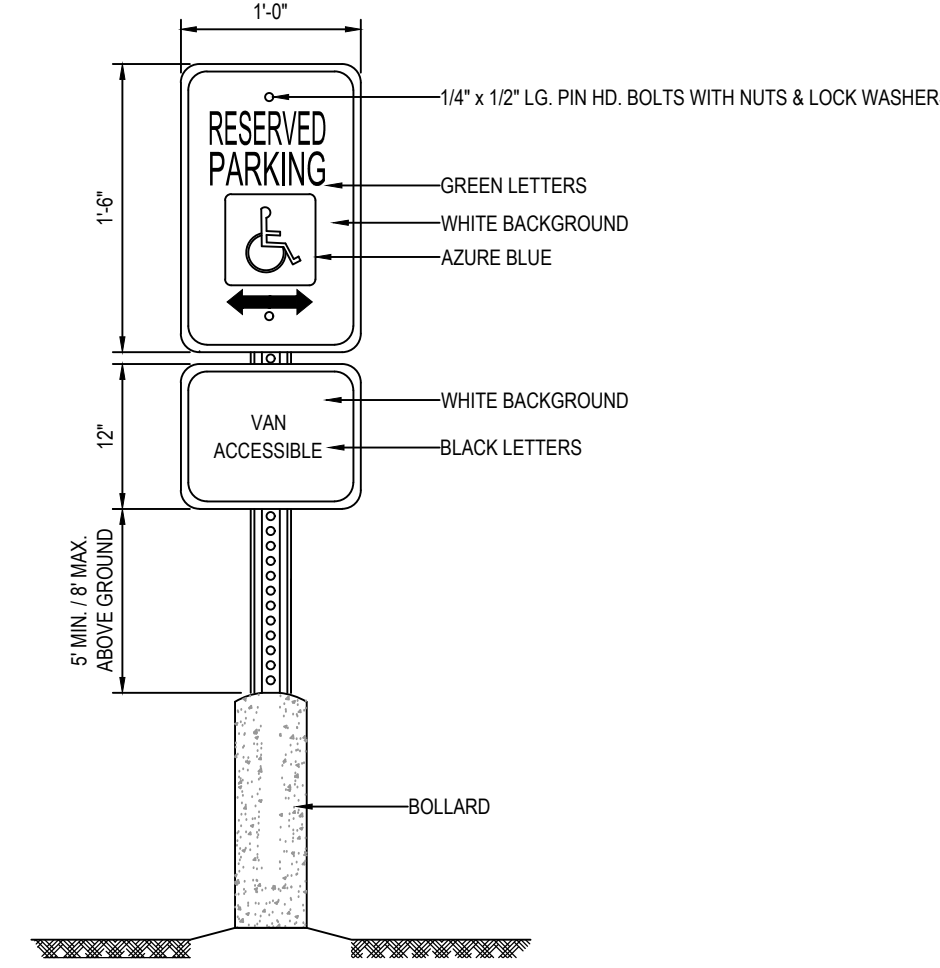


- NOTE
1. TRUNCATED DOME SHALL CONTRAST VISUALLY WITH ADJOINING SURFACES, EITHER LIGHT OR DARK OR DARK ON LIGHT.
  2. CONTRACTOR TO INSTALL DETECTABLE WARNINGS WHEN SIDEWALK INTERSECTS A HAZARDOUS VEHICULAR AREA.
  3. DOMES SHALL HAVE A BASE DIAMETER OF 0.9 IN (23 mm) MIN. TO 1.4 IN (36 mm) MAX. AND A TOP DIA. OF 50% TO 65% MAX. OF THE BASE DIA.
  4. TRUNCATED DOMES SHALL HAVE A HEIGHT OF 0.2" (5.1 mm).
  5. TRUNCATED DOMES SHALL HAVE A CENTER TO CENTER SPACING OF 1.6 IN (41 mm) MIN. AND 2.4 IN. (61 mm) MAX. AND A BASE TO BASE SPACING OF 0.65 IN. (16.5 mm) MIN. MEASURED BETWEEN THE MOST ADJACENT DOMES ON THE GRID.

NOTE TO DESIGNER:  
IF A WALK CROSSES OR ADJONS A VEHICULAR WAY WHERE THE WALKING SURFACE AND PAVEMENT ARE NOT SEPARATED BY CURBS, RAILING OR OTHER ELEMENTS, THE BOUNDARY BETWEEN THE AREA SHALL BE DEFINED BY A CONTINUOUS DETECTABLE WARNING WHICH IS MIN. 36" WIDE (ADA ACCESSIBLE GUIDELINES PRINTED 11-4-06) AND MIN. 24" DEPTH.

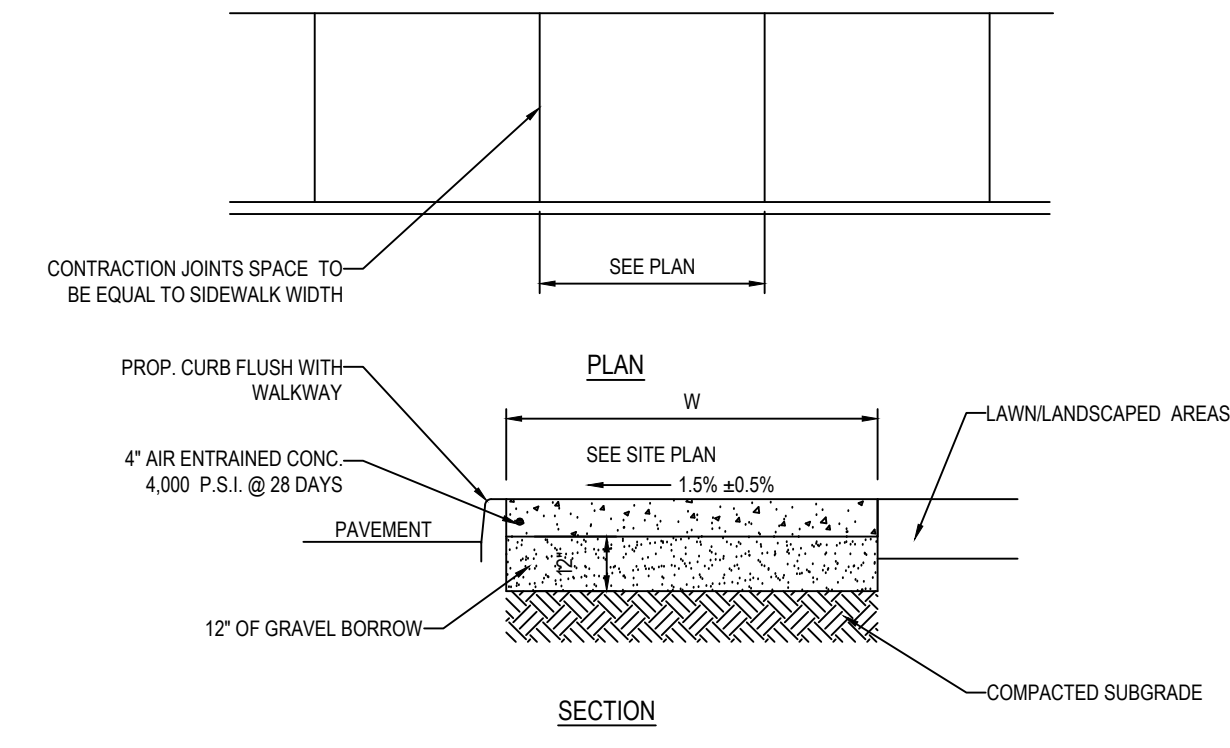
TRUNCATED DOME PATTERN

N.T.S.



ACCESSIBLE PARKING SIGN DETAIL

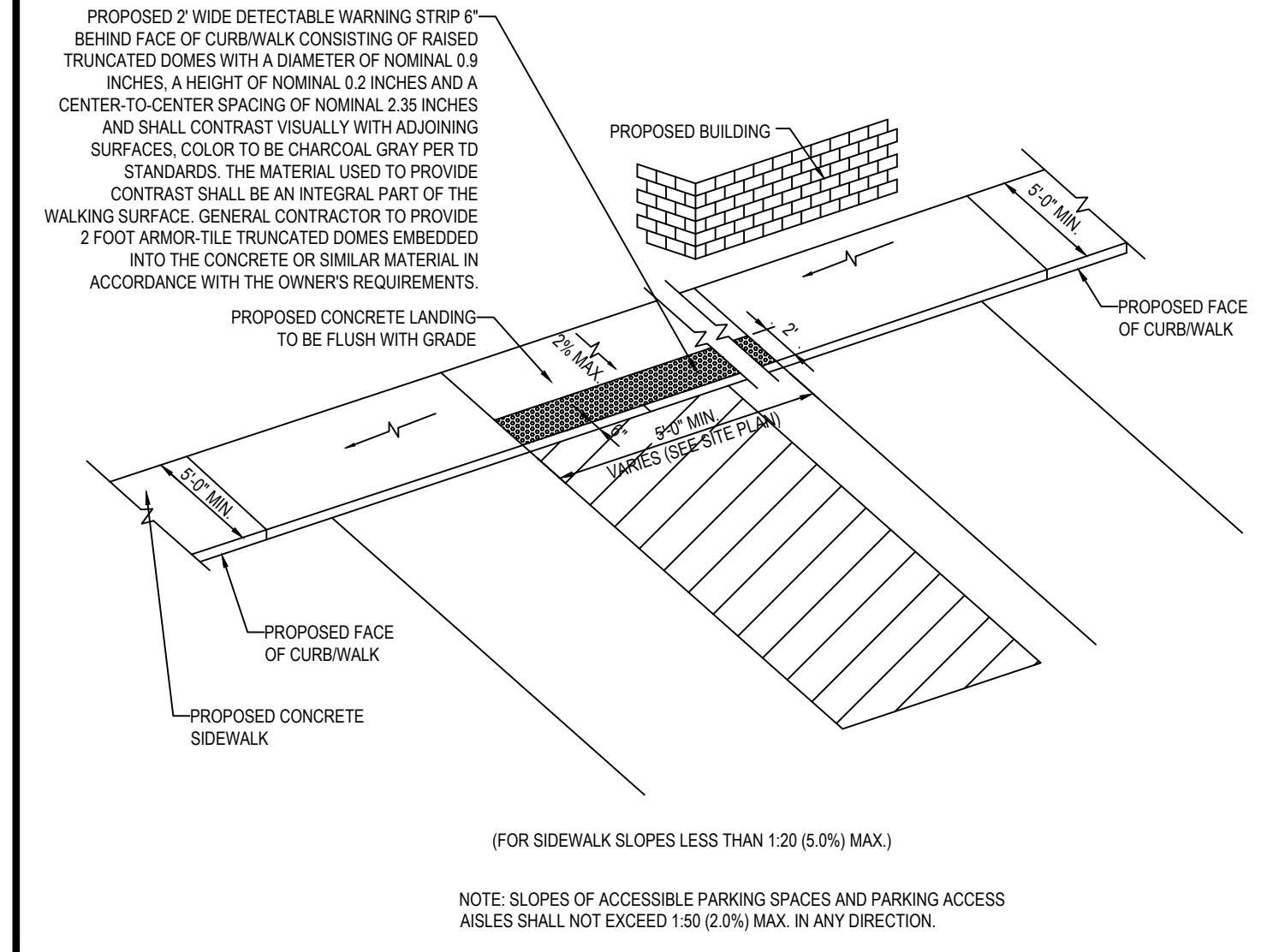
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- NOTE
1. PROVIDE 12\"/>

SIDEWALK DETAIL

N.T.S.

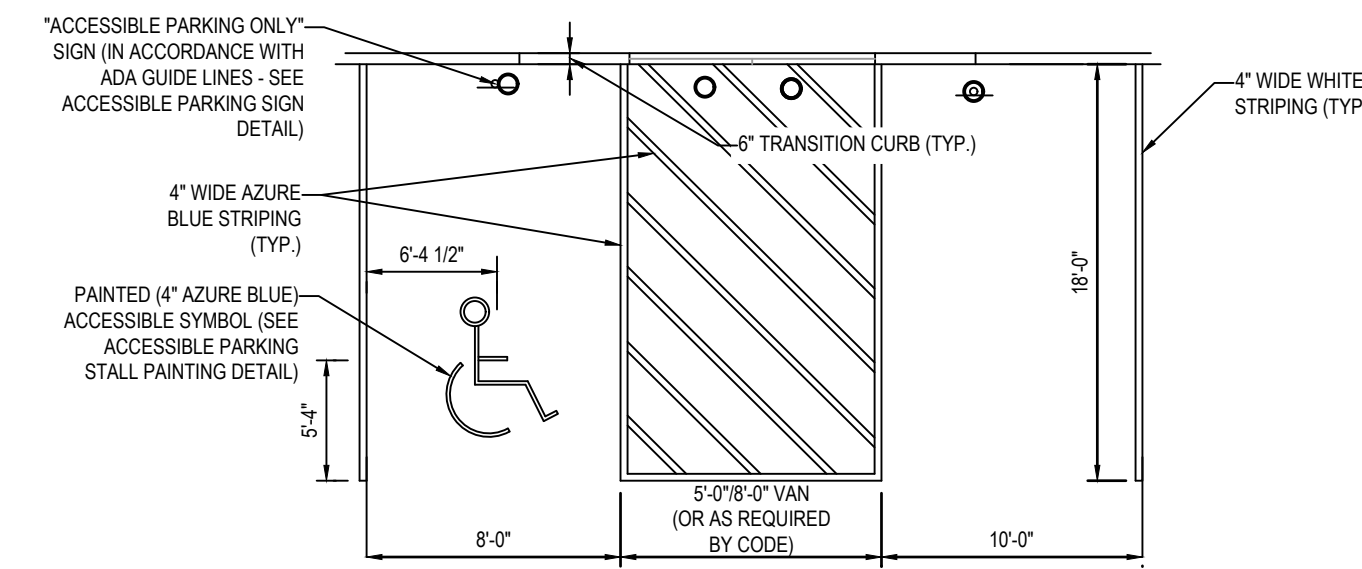


(FOR SIDEWALK SLOPES LESS THAN 1:20 (5.0%) MAX.)

NOTE: SLOPES OF ACCESSIBLE PARKING SPACES AND PARKING ACCESS AISLES SHALL NOT EXCEED 1:50 (2.0%) MAX. IN ANY DIRECTION.

SLOPED WALK DETAIL

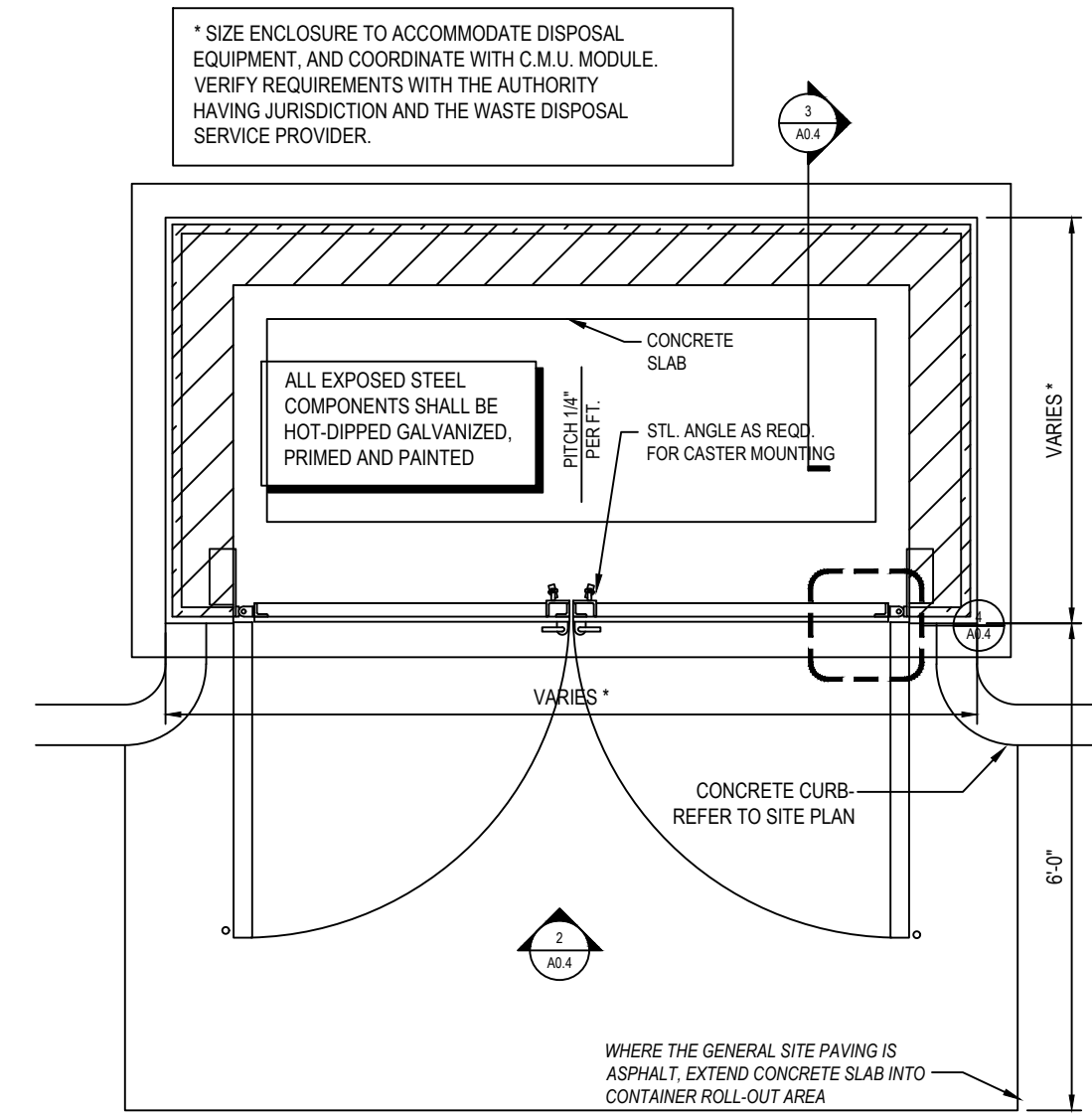
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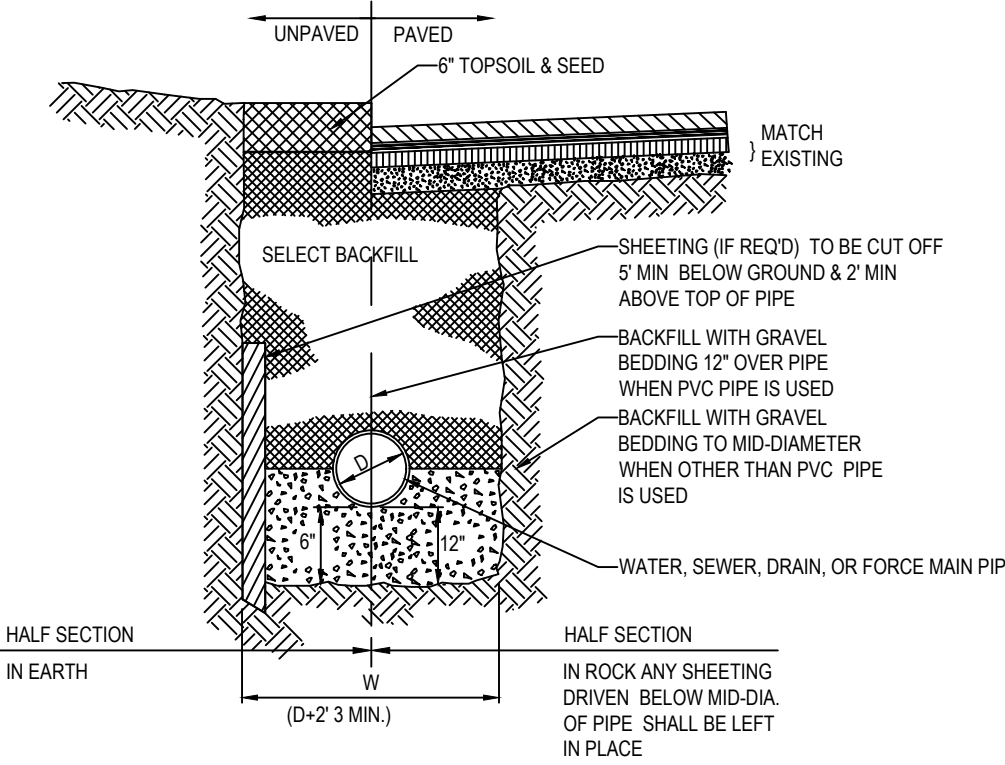
NOTE: ALL PAVEMENT STRIPING AND MARKINGS SHALL CONSIST OF CHLORINATED RUBBER PAINT APPLIED TO A DRY SURFACE WHEN THE TEMPERATURE IS GREATER THAN 40°F. PAINT SHALL BE APPLIED AT A MINIMUM OF 0.015" (15 MIL) FILM THICKNESS.

ACCESSIBLE STALL MARKINGS & PARKING LOT STRIPING DETAIL

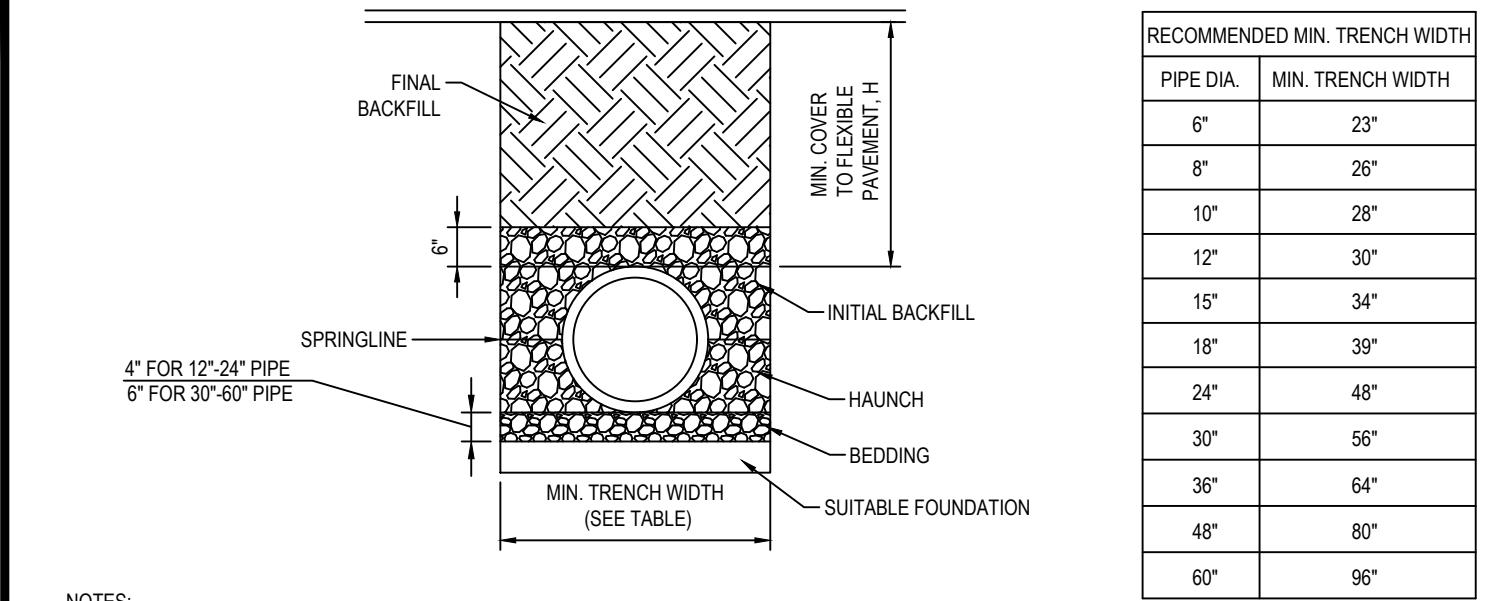
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TRASH ENCLOSURE



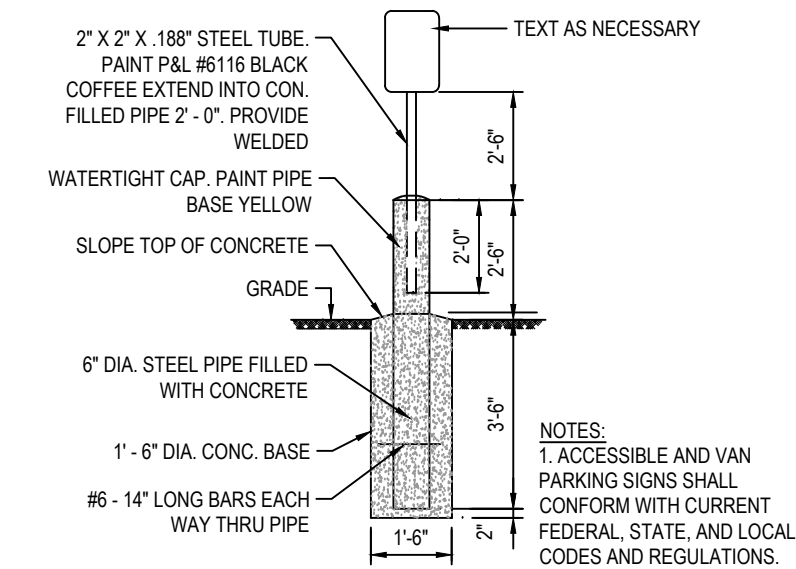
TYPICAL UTILITY TRENCH



| PIPE DIA. | MIN. TRENCH WIDTH |
|-----------|-------------------|
| 6"        | 23"               |
| 8"        | 26"               |
| 10"       | 28"               |
| 12"       | 30"               |
| 15"       | 34"               |
| 18"       | 39"               |
| 24"       | 48"               |
| 30"       | 56"               |
| 36"       | 64"               |
| 48"       | 80"               |
| 60"       | 96"               |

- NOTES:
1. ALL PIPE SYSTEMS SHALL BE INSTALLED IN ACCORDANCE WITH ASTM D2321, "STANDARD PRACTICE FOR UNDERGROUND INSTALLATION OF THERMOPLASTIC PIPE FOR SEWERS AND OTHER GRAVITY FLOW APPLICATIONS", LATEST EDITION.
  2. MEASURES SHOULD BE TAKEN TO PREVENT MIGRATION OF NATIVE FINES INTO BACKFILL MATERIAL, WHEN REQUIRED.
  3. FOUNDATION: WHERE THE TRENCH BOTTOM IS UNSTABLE, THE CONTRACTOR SHALL EXCAVATE TO A DEPTH REQUIRED BY THE ENGINEER AND REPLACE WITH SUITABLE MATERIAL AS SPECIFIED BY THE ENGINEER. AS AN ALTERNATIVE AND AT THE DISCRETION OF THE DESIGN ENGINEER, THE TRENCH BOTTOM MAY BE STABILIZED USING A GEOTEXTILE MATERIAL.
  4. BEDDING: SUITABLE MATERIAL SHALL BE CLASS II OR III. THE CONTRACTOR SHALL PROVIDE DOCUMENTATION FOR MATERIAL SPECIFICATION TO ENGINEER. UNLESS OTHERWISE NOTED BY THE ENGINEER, MINIMUM BEDDING THICKNESS SHALL BE: 4" (100mm) FOR 4'-24" (100mm-600mm), 6" (150mm) FOR 30'-60" (750mm-900mm).
  5. INITIAL BACKFILL: SUITABLE MATERIAL SHALL BE CLASS II OR III IN THE PIPE ZONE EXTENDING NOT LESS THAN 6" ABOVE CROWN OF PIPE. THE CONTRACTOR SHALL PROVIDE DOCUMENTATION FOR MATERIAL SPECIFICATION TO ENGINEER. MATERIAL SHALL BE INSTALLED AS REQUIRED IN ASTM D2321, LATEST EDITION.
  6. MINIMUM COVER: MINIMUM COVER, H, IN NON-TRAFFIC APPLICATIONS (GRASS OR LANDSCAPE AREAS) IS 12" FROM THE TOP OF PIPE TO GROUND SURFACE. ADDITIONAL COVER MAY BE REQUIRED TO PREVENT FLOATATION FOR TRAFFIC APPLICATIONS. MINIMUM COVER, H, IS 12" UP TO 48" DIAMETER PIPE AND 24" OF COVER FOR 54'-60" DIAMETER PIPE. MEASURED FROM TOP OF PIPE TO BOTTOM OF FLEXIBLE PAVEMENT OR TO TOP OF RIGID PAVEMENT.

HDPE STORM DRAINAGE TRENCH



SIGN BOLLARD DETAIL

N.T.S.

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environmental | engineering | design  
21 B Street | Burlington, MA 01803  
Tel: 781.273.2500 | Fax: 781.273.3311  
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|                         |            |
|-------------------------|------------|
| OWNER: SITE DEVELOPMENT | PROJECT #: |
| DESIGNED BY: PLANS      | 4121000090 |
| CHECKED BY: AS SHOWN    |            |
| DATE: 03/08/2022        |            |
| SCALE: AS SHOWN         |            |
| PROJECT #:              |            |

PROJECT TITLE: **SITE DEVELOPMENT PLANS**  
SHEET TITLE: **DETAIL SHEET**  
SITE ADDRESS: 900 NW PRYOR RD  
LEE'S SUMMIT, MO 64081





# Quality Assurance and Special Inspection

- TESTING LABORATORY: RETAINED BY OWNER AND SATISFACTORY TO ARCHITECT/STRUCTURAL ENGINEER AND LOCAL JURISDICTION TO PERFORM REQUIRED TESTS AND INSPECTIONS OF THIS CONTRACT AND APPLICABLE CODE.
- MATERIAL CERTIFICATION: SUBMIT LABORATORY TEST REPORTS CERTIFYING MATERIALS ARE OF IDENTIFIABLE TESTED STOCK TO OWNER, TESTING LABORATORY, ARCHITECT/STRUCTURAL ENGINEER AND, UPON REQUEST, TO LOCAL JURISDICTION. IF LABORATORY TEST REPORTS CANNOT BE MADE AVAILABLE, TESTING LABORATORY WILL PERFORM TESTS AS DIRECTED BY ARCHITECT/STRUCTURAL ENGINEER. CONTRACTOR SHALL PAY TESTING LABORATORY FOR COSTS RELATED TO TESTS AND INSPECTIONS OF UNIDENTIFIABLE MATERIALS OR MATERIALS FURNISHED WITHOUT LABORATORY TEST REPORTS, MATERIALS FOUND DEFICIENT AFTER INITIAL TESTS AND INSPECTIONS, OR MATERIALS REPLACING DEFICIENT MATERIALS.
- FABRICATOR MUST BE REGISTERED AND APPROVED BY LOCAL JURISDICTION FOR THE FABRICATION OF MEMBERS AND ASSEMBLIES ON THE PREMISES OF THE FABRICATOR'S SHOP.
- THE SPECIAL INSPECTIONS IDENTIFIED ON THIS SHEET ARE, IN ADDITION TO, AND NOT A SUBSTITUTE FOR, THOSE INSPECTIONS REQUIRED TO BE PERFORMED BY A BUILDING INSPECTOR LICENSED BY THE AUTHORITY HAVING JURISDICTION OVER THE PROJECT.
  - QUALITY ASSURANCE FOR SEISMIC RESISTANCE: SPECIAL INSPECTION IN ACCORDANCE WITH THE REQUIREMENTS OF IBC SECTION 1704, 1707, AND STRUCTURAL TESTING IN ACCORDANCE WITH THE REQUIREMENTS OF IBC SECTION 1708 SHALL BE REQUIRED FOR:
    - ALL SEISMIC FORCE RESISTING SYSTEMS (I.E. SHEARWALLS)
    - ALL DIAPHRAGMS SHOWN ON PLAN SHEETS.
    - ALL CHORD AND DRAG MEMBERS DENOTED ON PLAN.
  - A QUALIFIED AND APPROVED THIRD PARTY INSPECTION AND TESTING AGENCY IN ACCORDANCE WITH IBC 1710.1, ANY DEFICIENCIES OR DISCREPANCIES FROM THAT SHOWN ON THE STRUCTURAL DRAWINGS SHALL BE REPORTED TO THE ENGINEER OF RECORD.
  - THE TYPE AND FREQUENCY OF SPECIAL INSPECTION, STRUCTURAL TESTING AND SUBSEQUENT REPORTING CONFORMING TO THE REQUIREMENTS OF IBC SECTION 1704, 1707, AND 1708 SHALL BE SUBMITTED BY THE INSPECTION AND TESTING AGENCIES TO THE ARCHITECT/STRUCTURAL ENGINEER FOR APPROVAL.
  - STRUCTURAL OBSERVATIONS AND SUBSEQUENT REPORTING OF GENERAL CONFORMANCE TO THE STRUCTURAL DRAWINGS SHALL BE PERFORMED PERIODICALLY BY THE ENGINEER IN RESPONSIBLE CHARGE AT HIS/HER DISCRETION OR WHEN SPECIFICALLY REQUIRED BY THE BUILDING OFFICIAL.
  - QUALITY ASSURANCE FOR GENERAL CONSTRUCTION: SPECIAL INSPECTION IN ACCORDANCE WITH THE REQUIREMENTS OF IBC SECTION 1704 SHALL BE REQUIRED FOR THE FOLLOWING ELEMENTS OF GENERAL CONSTRUCTION.

| IBC Table 1705.3  |              |            |          |  |                        |
|---|--------------|------------|----------|--|------------------------|
| REQUIRED VERIFICATION AND INSPECTION OF CONCRETE CONSTRUCTION   |              |            |          |  |                        |
| VERIFICATION AND INSPECTION   | REQUIRED Y/N | CONTINUOUS | PERIODIC | REFERENCED STANDARD <sup>2</sup>             | IBC REFERENCE          |
| 1. Inspection of reinforcing steel, including prestressing tendons, and placement.  | Y            | —          | X        | ACI 318: 3.5, 7.1-7.7                        | 1910.4                 |
| 2. Inspection of reinforcing steel welding in accordance with Table 1705.2.2, Item 2b.  | Y            | —          | —        | AWS D1.4<br>ACI 318: 3.5.2                   | —                      |
| 3. Inspection of anchors cast in concrete where allowable loads have been increased or where strength design is used.   | Y            | —          | X        | ACI 318: 8.1.3, 21.1.8                       | 1908.5, 1909.1         |
| 4. Inspection of anchors post-installed in hardened concrete members <sup>2</sup>   | Y            | —          | X        | ACI 318: 3.8.6, 8.1.3, 21.1.8                | 1909.1                 |
| 5. Verifying use of required design mix.  | Y            | —          | X        | ACI 318: Ch. 4, 5.2-5.4                      | 1904.2, 1910.2, 1910.3 |
| 6. At the time fresh concrete is sampled to fabricate specimens for strength tests, perform slump and air content tests, and determine the temperature of the concrete.           | Y            | X          | —        | ASTM C 172<br>ASTM C 31<br>ACI 318: 5.6, 5.8 | 1910.10                |
| 7. Inspection of concrete and shotcrete placement for proper application techniques.  | Y            | X          | —        | ACI 318: 5.9, 5.10                           | 1910.6, 1910.7, 1910.8 |
| 8. Inspection for maintenance of specified curing temperature and techniques.   | Y            | —          | X        | ACI 318: 5.11- 5.13                          | 1910.9                 |
| 9. Inspection of prestressed concrete:  |              |            |          |  |                        |
| a. Application of prestressing forces.  | N            | X          | —        | ACI 318: 18.20<br>ACI 318: 18.18.4           | —                      |
| b. Grouting of bonded prestressing tendons in the seismic-force-resisting system.   | N            | X          | —        | ACI 318: 18.20<br>ACI 318: 18.18.4           | —                      |
| 10. Erection of precast concrete members.   | N            | —          | X        | ACI 318: Ch. 16                              | —                      |
| 11. Verification of in-situ concrete strength, prior to stressing of tendons in post-tensioned concrete and prior to removal of shores and forms from beams and structural slabs. | N            | —          | X        | ACI 318: 6.2                                 | —                      |
| 12. Inspect formwork for shape, location and dimensions of the concrete member being formed.  | Y            | —          | X        | ACI 318: 6.1.1                               | —                      |


For Sl: 1 inch = 25.4 mm.  
<sup>1</sup>Where applicable, see also Section 1705.11, Special inspection for seismic resistance.  
<sup>2</sup>Specific requirements for special inspection shall be included in the research report for the anchor issued by an approved source in accordance with ACI355.2 or other qualification procedures. Where specific requirements are not provided, special inspection requirements shall be specified by the registered design professional and shall be approved by the building official prior to the commencement of the work.

| IBC Table 1705.6   |              |                               |                                 |
|--|--------------|-------------------------------|---------------------------------|
| REQUIRED VERIFICATION AND INSPECTIONS OF SOILS   |              |                               |                                 |
| VERIFICATION AND INSPECTION TASK   | REQUIRED Y/N | CONTINUOUS DURING TASK LISTED | PERIODICALLY DURING TASK LISTED |
| 1. Verify materials below shallow foundations are adequate to achieve the design bearing capacity.                   | Y            | —                             | X                               |
| 2. Verify excavations are extended to proper depth and have reached proper material.                                 | Y            | —                             | X                               |
| 3. Perform classification and testing of compacted fill materials.   | Y            | —                             | X                               |
| 4. Verify use of proper materials, densities and lift thicknesses during placement and compaction of compacted fill. | Y            | X                             | —                               |
| 5. Prior to placement of compacted fill, observe subgrade and verify that site has been prepared properly.           | Y            | —                             | X                               |

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SIGNED BY:



COA # 2012012048  
02/21/2022

DATE: \_\_\_\_\_  
 NAME: \_\_\_\_\_  
 LICENSE NUMBER: \_\_\_\_\_

**PRYOR RD AND LOWENSTEIN DR.**

908 NW PRYOR RD  
LEE'S SUMMIT, MO 64081

EBI JOB #4121000082

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**CHASE**

PRYOR RD AND LOWENSTEIN DR.

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QUALITY ASSURANCE AND SPECIAL INSPECTIONS

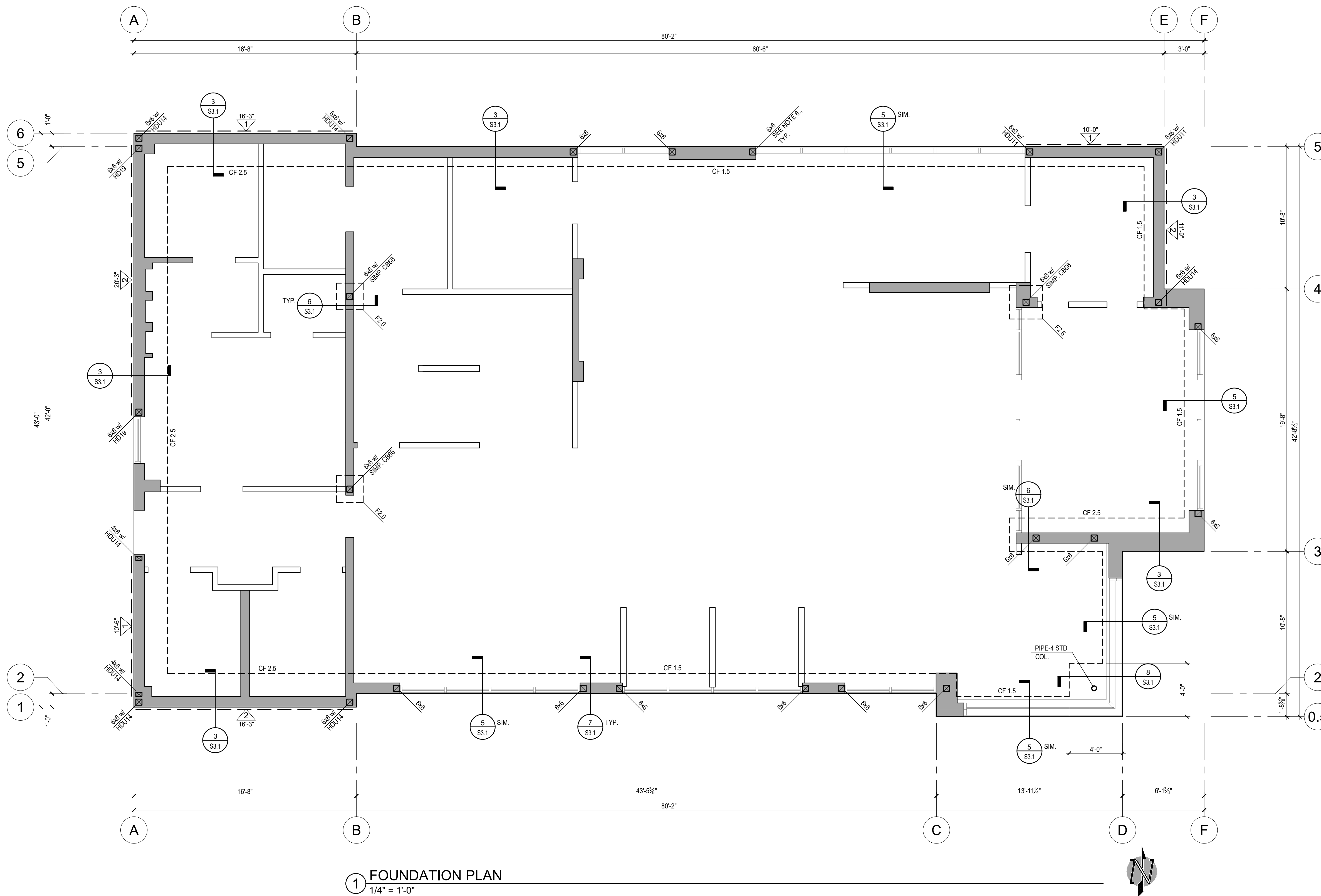
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 CONSTRUCTION ENGINEERING  
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**1 FOUNDATION PLAN**  
1/4" = 1'-0"

**CONTINUOUS FOOTING (CF) SCHEDULE**

| MARK   | WIDTH | LENGTH | THICKNESS | REINFORCING  |              | REMARKS                 |
|--------|-------|--------|-----------|--------------|--------------|-------------------------|
|        |       |        |           | TOP          | BOTTOM       |                         |
| CF 1.5 | 1'-6" | CONT.  | 3'-0"     | (2) #5 CONT. | (2) #5 CONT. | (2) #5 CONT. MID-HEIGHT |
| CF 2.5 | 2'-6" | CONT.  | 3'-0"     | (2) #6 CONT. | (2) #6 CONT. | (2) #5 CONT. MID-HEIGHT |

NOTE:  
1. ALL LONGITUDINAL REINFORCING SHALL DOWEL AROUND ALL CORNERS, BENDS AND INTERSECTIONS WITH MINIMUM CLASS B LAP SPLICES.

**SPREAD FOOTING (F) SCHEDULE**

| MARK | SIZE          | THICKNESS | REINFORCING |             | REMARKS |
|------|---------------|-----------|-------------|-------------|---------|
|      |               |           | TOP         | BOTTOM      |         |
| F2.0 | 2'-0" x 2'-0" | 2'-0"     | (4) #5 E.W. | (4) #5 E.W. |         |

**HOLDOWN SCHEDULE**

| HOLDOWN TYPE | MANUFACTURER       | MIN. POST SIZE | FASTENERS             | ANCHOR BOLT |        |
|--------------|--------------------|----------------|-----------------------|-------------|--------|
|              |                    |                |                       | TYPE        | EMBED. |
| HDU11        | SIMPSON STRONG-TIE | SEE PLAN       | (30) SDS 1/2"x2 1/2"  | SB 1 x 30   | 24"    |
| HDU14        | SIMPSON STRONG-TIE | SEE PLAN       | (36) SDS 1/2"x2 1/2"  | SB 1 x 30   | 24"    |
| HD19         | SIMPSON STRONG-TIE | SEE PLAN       | (5) 1"Ø MACHINE BOLTS | PAB10-36    | 14"    |

NOTE:  
1. INSTALL PER MANUFACTURER'S RECOMMENDATIONS.  
2. HOLDDOWN TO FOUNDATION DETAILS, SEE 1S3.1 AND 2IS3.1.  
3. HOLDDOWN CONNECTOR BOLTS INTO WOOD FRAMING REQUIRE APPROVED PLATE WASHERS; AND HOLDDOWNS SHALL BE FINGER TIGHT AND 1/2 WRENCH TURN JUST PRIOR TO COVERING THE WALL FRAMING. CONNECTOR BOLTS INTO WOOD FRAMING REQUIRE STEEL PLATE WASHERS ON THE POST ON THE OPPOSITE SIDE OF THE ANCHORAGE DEVICE. PLATE SIZE SHALL BE A MINIMUM OF 0.299"x3" x 0'-3".  
4. HOLDDOWN HARDWARE MUST BE SECURED IN PLACE PRIOR TO FOUNDATION INSPECTION.

**PLYWOOD / OSB SHEAR WALL (SW) SCHEDULE**

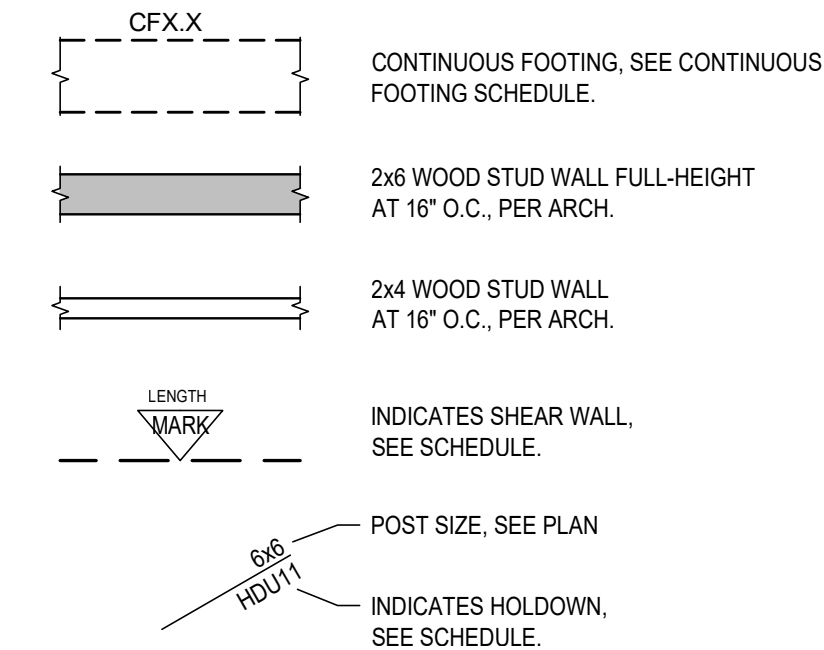
| TYPE | SHEATHING       | FIELD NAILING (F.N.) & EDGE NAILING (E.N.) | SILL PLATE | 5/8" x 7" EMBED. F1554 A36 A.B. SPACING | REMARKS               | ALLOWABLE UNIT SHEAR (SEE NOTES 6 & 7) |         |
|------|-----------------|--|------------|---|-----------------------|--|---------|
|      |                 |  |            |   |                       | SEISMIC                                | WIND    |
| 1    | 15/32" STRUCT 1 | 10d @ 4" O.C. E.N. & @ 12" O.C. F.N.       | 2x         | 36" O.C.                                | SEE NOTES 1, 2, 3 & 4 | 510 PLF                                | 715 PLF |
| 2    | 15/32" STRUCT 1 | 10d @ 3" O.C. E.N. & @ 12" O.C. F.N.       | 2x         | 24" O.C.                                | SEE NOTES 1, 2, 3 & 4 | 665 PLF                                | 930 PLF |

NOTE:  
1. FRAMING AT ADJOINING PANEL EDGES SHALL BE 2" NOMINAL OR WIDER.  
2. ALL ANCHOR BOLTS IN SHEAR WALLS WITH 2x SILL PLATES SHALL HAVE 0.299"x3"x0'-3" PLATE WASHER.  
3. SEE S4.0 FOR TYPICAL SHEATHING DETAILS AND ELEVATIONS.  
4. FOR ANCHORAGE, SEE 6S3.0.  
5. FRAMING AT ADJOINING PANEL EDGES SHALL BE 3" NOMINAL OR WIDER AND NAILS AT ALL PANEL EDGES SHALL BE STAGGERED.  
6. ALLOWABLE UNIT SHEAR IS PER AWC SDPWS-15 TABLE 4.3A. FOR SHEAR WALLS WITH ASPECT RATIOS GREATER THAN 2:1, THE SEISMIC ALLOWABLE UNIT SHEAR WALL SHALL BE MULTIPLIED BY TWO TIMES THE WALL WIDTH DIVIDED BY THE WALL HEIGHT, 2b/h.  
7. ALLOWABLE UNIT LOADS HAVE BEEN REDUCED BY THE ASD REDUCTION FACTOR PER SDPWS-15 SECTION 4.3.3.

**FOUNDATION NOTES:**

- CONTRACTOR SHALL VERIFY ALL DIMENSIONS WITH ARCHITECTURAL DRAWINGS. CONTRACTOR SHALL NOTIFY THE ARCHITECT AND STRUCTURAL ENGINEER OF ANY DISCREPANCIES PRIOR TO CONSTRUCTION.
- SLAB ON GRADE SHALL BE 5" THICK WITH #4 AT 24" O.C. EACH WAY, 2" CLEAR FROM TOP OF SLAB. FOR METHOD OF PLACING SLAB ON GRADE, SEE 7S2.0. FOR SLAB JOINT LAYOUT, DEPRESSIONS, SLAB EDGE, ETC., SEE ARCHITECTURAL DRAWINGS.
- VERIFY ALL TOP OF SLAB ELEVATIONS WITH ARCHITECTURAL DRAWINGS.
- SEE DETAIL 7S3.1 FOR WOOD POST WITHOUT HOLDDOWN AT EXTERIOR FOOTING, U.N.O.
- FOR TYPICAL FOUNDATION DETAILS, SEE SHEET S3.0. FOR TYPICAL WOOD FRAMING DETAILS, SEE SHEET S4.0. FOR GENERAL NOTES, SEE SHEETS S0.0, S0.1, AND S0.2.
- IN LIEU OF 6x6 HEADER POSTS INDICATED ON PLAN, (3) 2x6 KING STUDS MAY BE USED WHEN POST DOES NOT DOUBLE AS SHEAR WALL CHORD.

**FOUNDATION LEGEND:**



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SIGNED BY:

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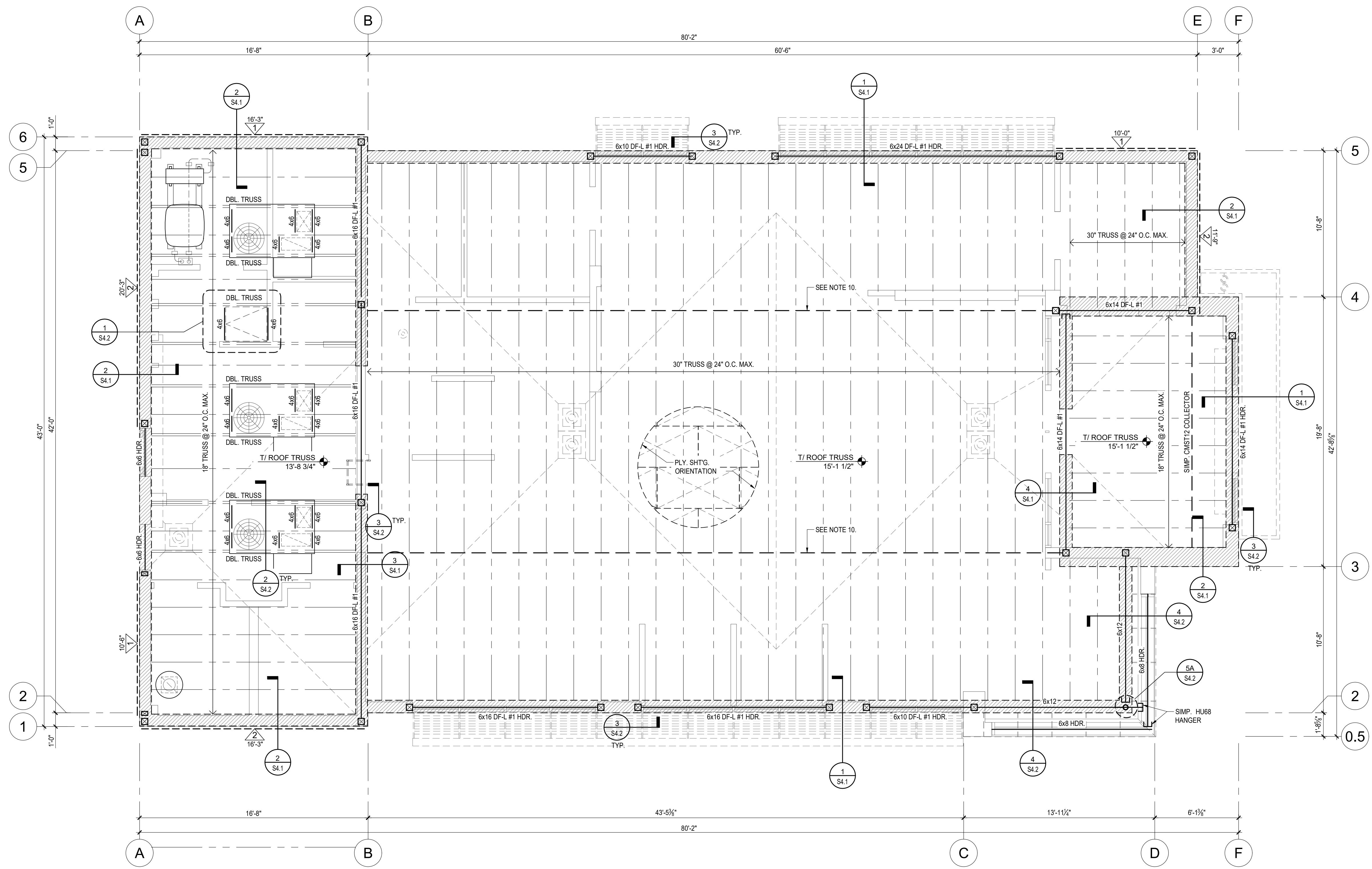
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FOUNDATION PLAN

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**1** ROOF FRAMING PLAN  
1/4" = 1'-0"

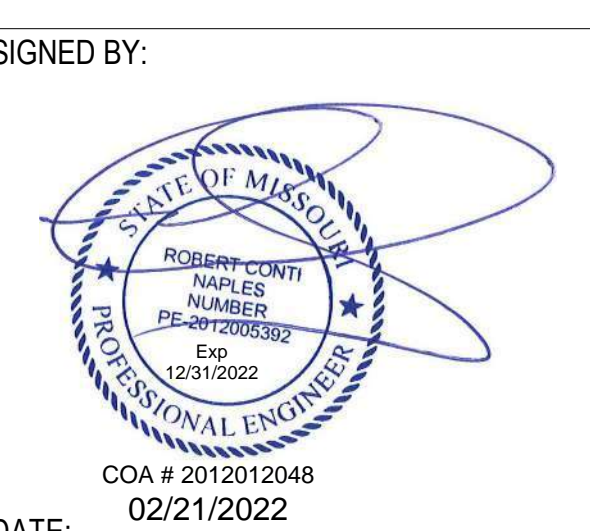
**ROOF FRAMING NOTES:**

- CONTRACTOR SHALL VERIFY ALL DIMENSIONS WITH ARCHITECTURAL DRAWINGS. CONTRACTOR SHALL NOTIFY THE ARCHITECT AND STRUCTURAL ENGINEER OF ANY DISCREPANCIES PRIOR TO CONSTRUCTION.
- CONTRACTOR SHALL LOCATE ALL MECHANICAL OPENINGS SHOWN WITH DIMENSIONS AND EQUIPMENT SPECIFIED BY THE ARCHITECTURAL AND MECHANICAL DRAWINGS. NOTIFY STRUCTURAL ENGINEER IF ROUGH OPENING IS LARGER THAN INDICATED.
- ROOF JOIST DESIGN CRITERIA SHALL BE AS FOLLOWS:
  - LOADING:
    - MECHANICAL EQUIPMENT: VERIFY w/ MECH. DRAWINGS & SUPPLIER
    - SPECIAL LOADING: VERIFY w/ ARCH.
  - MAXIMUM LIVE LOAD DEFLECTION IS TO BE L/360.
  - MAXIMUM TOTAL LOAD DEFLECTION IS TO BE L/240.
- PROVIDE SIMPSON STRONG-TIE H2.5A WALL TIES AT 24" O.C. ALONG ALL EXTERIOR WALLS AND/OR AT EACH TRUSS END. SEE DETAILS 1/S4.1 AND 2/S4.1.
- ALL EXTERIOR POP-OUT AND BOXED-OUT FRAMING SHALL BE SHEATHED WITH TYPE 1 SHEAR WALL FRAMING AS DESCRIBED IN THE SHEAR WALL SCHEDULE. TYPICAL AT ALL EXTERIOR POP-OUTS, ROOF TOP WALLS AND BOX-OUTS.
- PROVIDE DOUBLE 2x12 BLOCKING UNDER PARAPETS WHERE APPLICABLE.
- USE MINIMUM 4x6 POSTS WITH SIMPSON ECC64 CAP FOR ALL 6x HEADERS, U.N.O.
- TRUSS MANUFACTURE TO PROVIDE MINIMUM (3) LINES OF BOTTOM CHORD BRIDGING CONNECTED TO END EXTERIOR END WALLS.
- FOR TYPICAL WOOD FRAMING DETAILS, SEE SHEET S4.0. FOR GENERAL NOTES, SEE SHEETS S0.0, S0.1, AND S0.2.

**FRAMING LEGEND:**

- 2x6 EXTERIOR WOOD STUD WALL, FULL-HEIGHT AT 16" O.C. PER ARCH. (H = 17'-0")
- 2x6 WOOD STUD PARAPET WALL AT 16" O.C., HEIGHT VARIES, SEE ARCH.
- INDICATES SHEAR WALL, SEE SCHEDULE.
- INDICATES ROOF JOIST ELEVATIONS, SEE PLAN.

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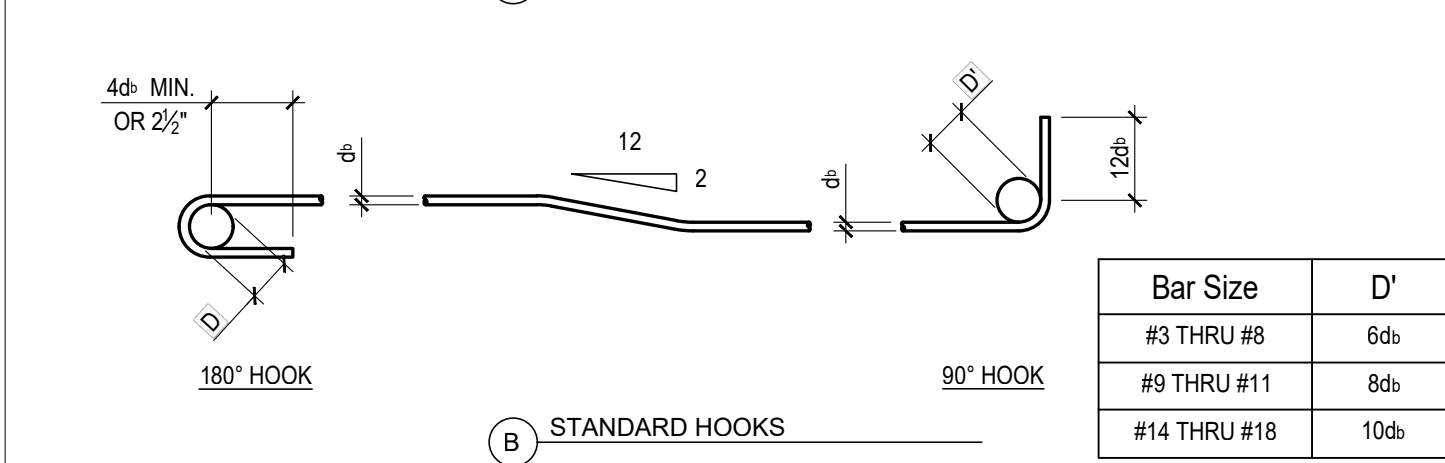
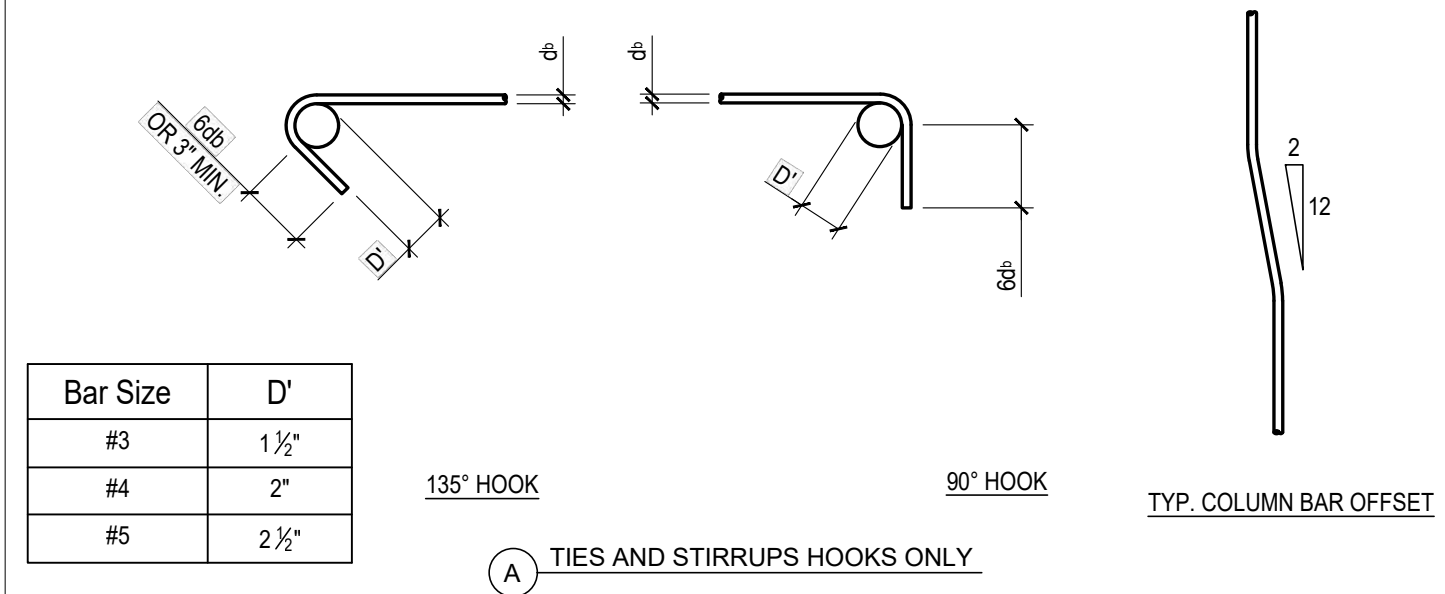
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ROOF FRAMING PLAN

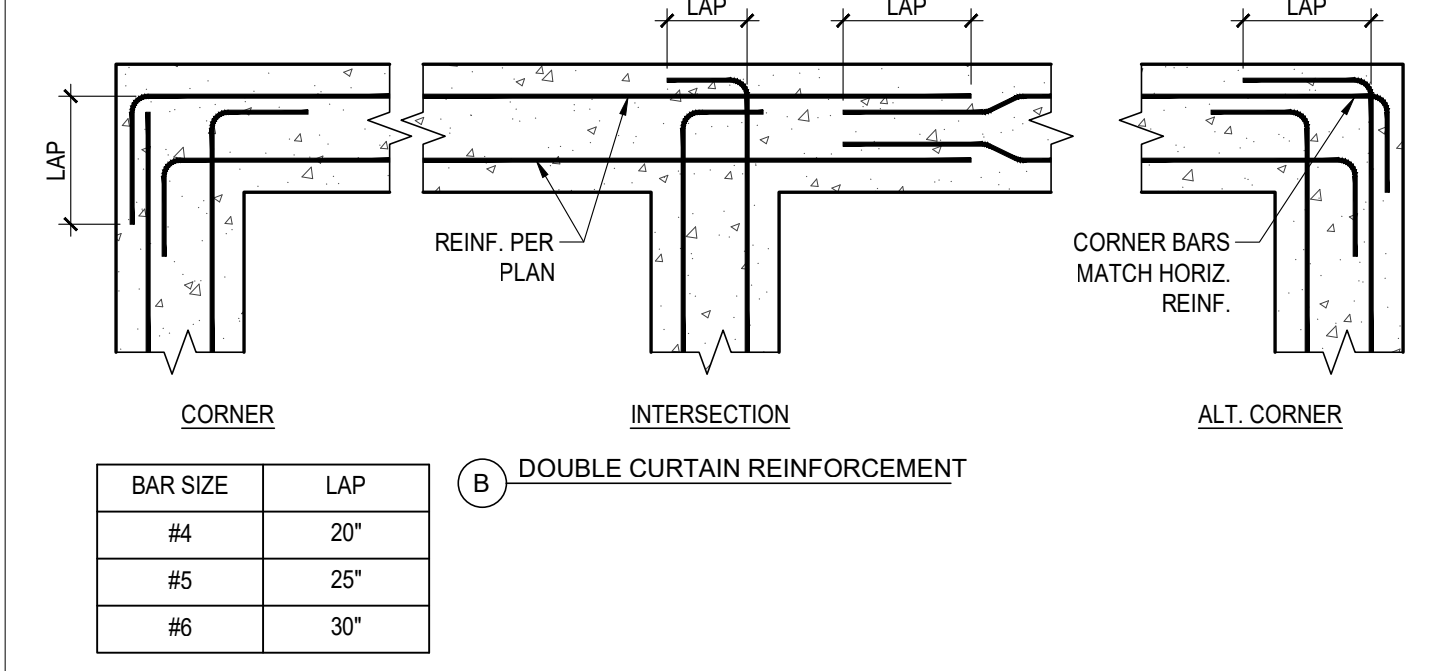
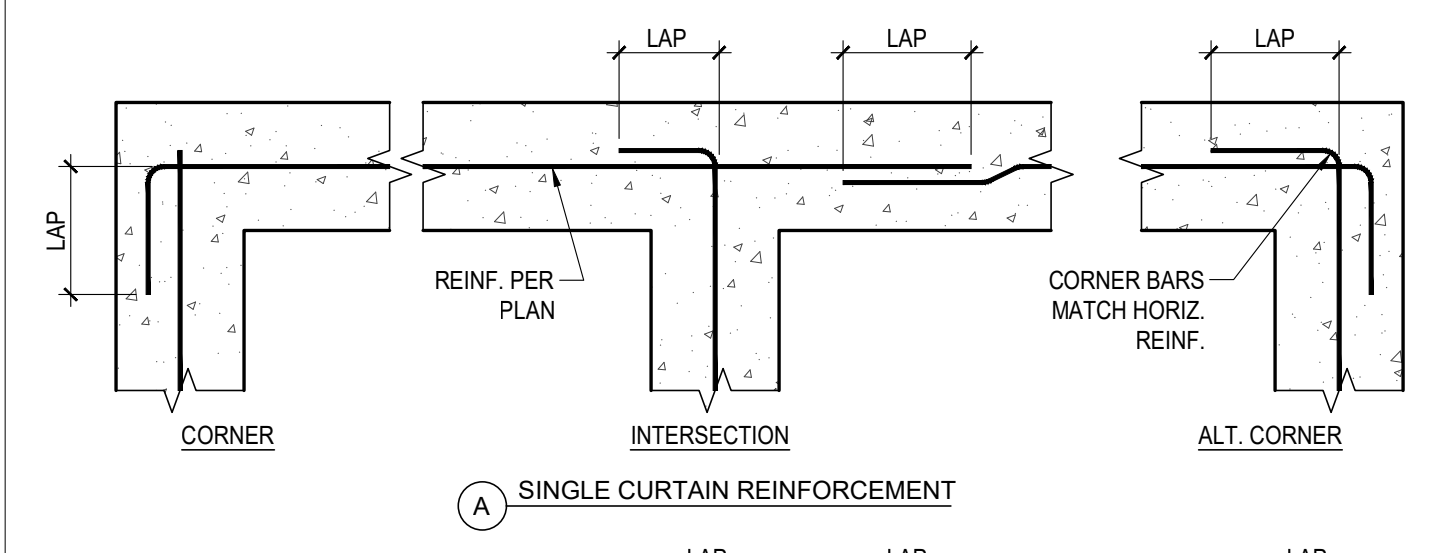
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**S2.0**

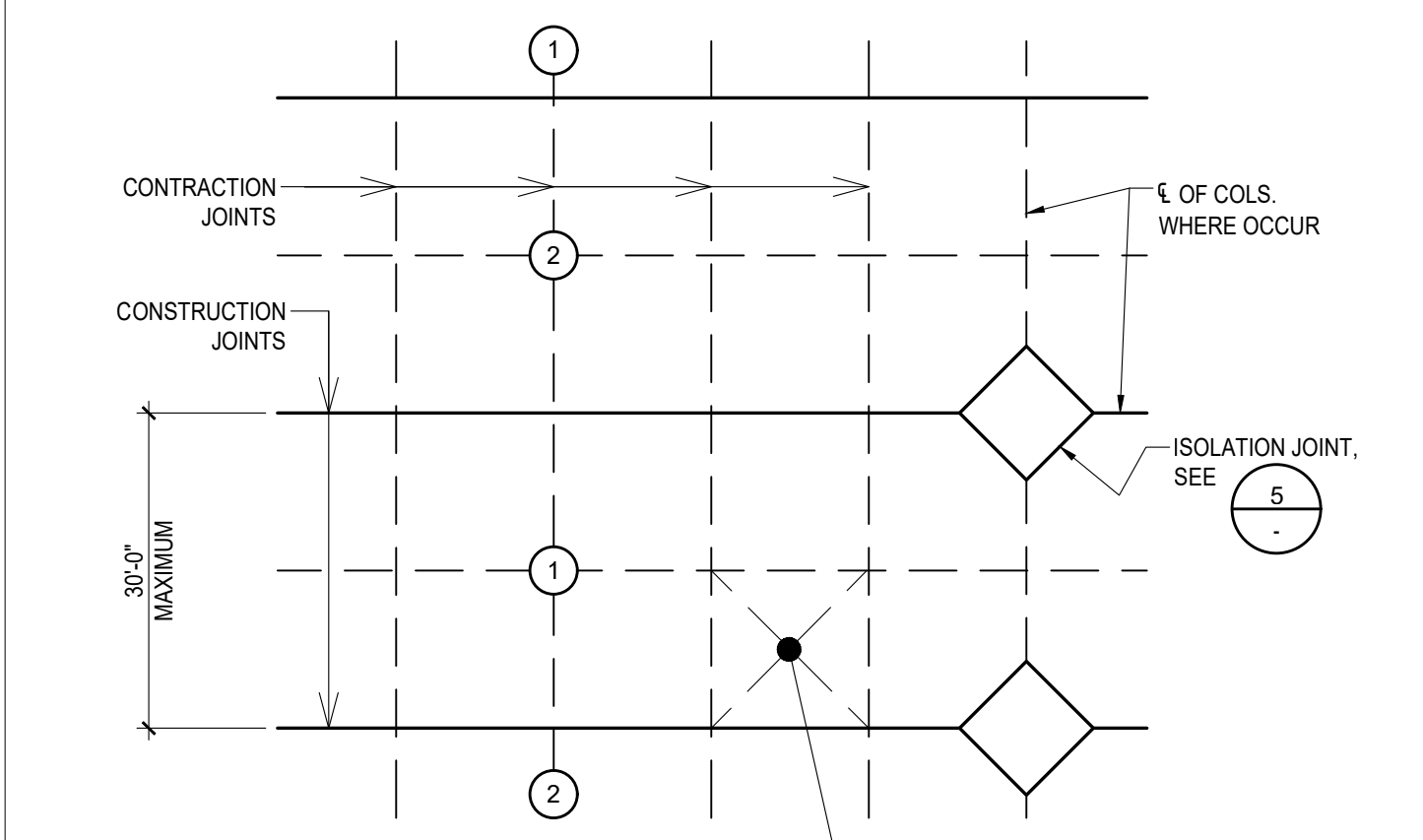


NOTES:  
 1. ALL BENDS SHALL BE MADE COLD.  
 2. #14 AND #18 BARS SHALL BE BEND TESTED AND LAB APPROVED PRIOR TO BENDING.

1 TYPICAL REINFORCING BAR BENDS  
 SCALE: N.T.S.

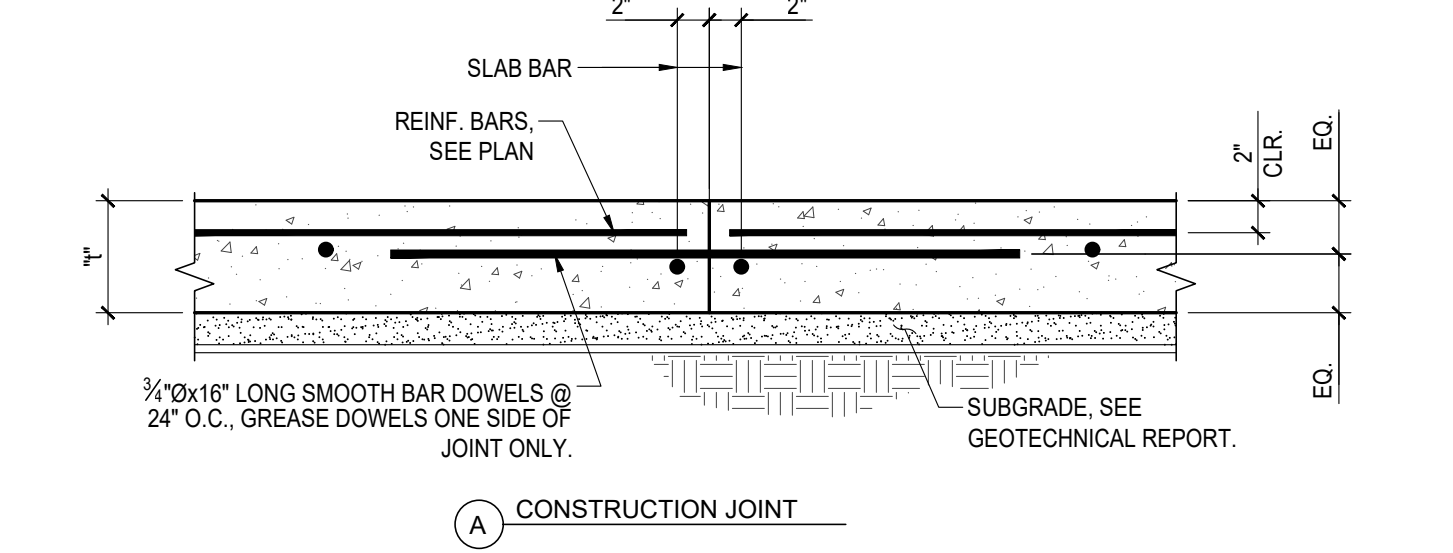


2 TYPICAL REINFORCEMENT LAP AT FOOTING  
 SCALE: N.T.S.



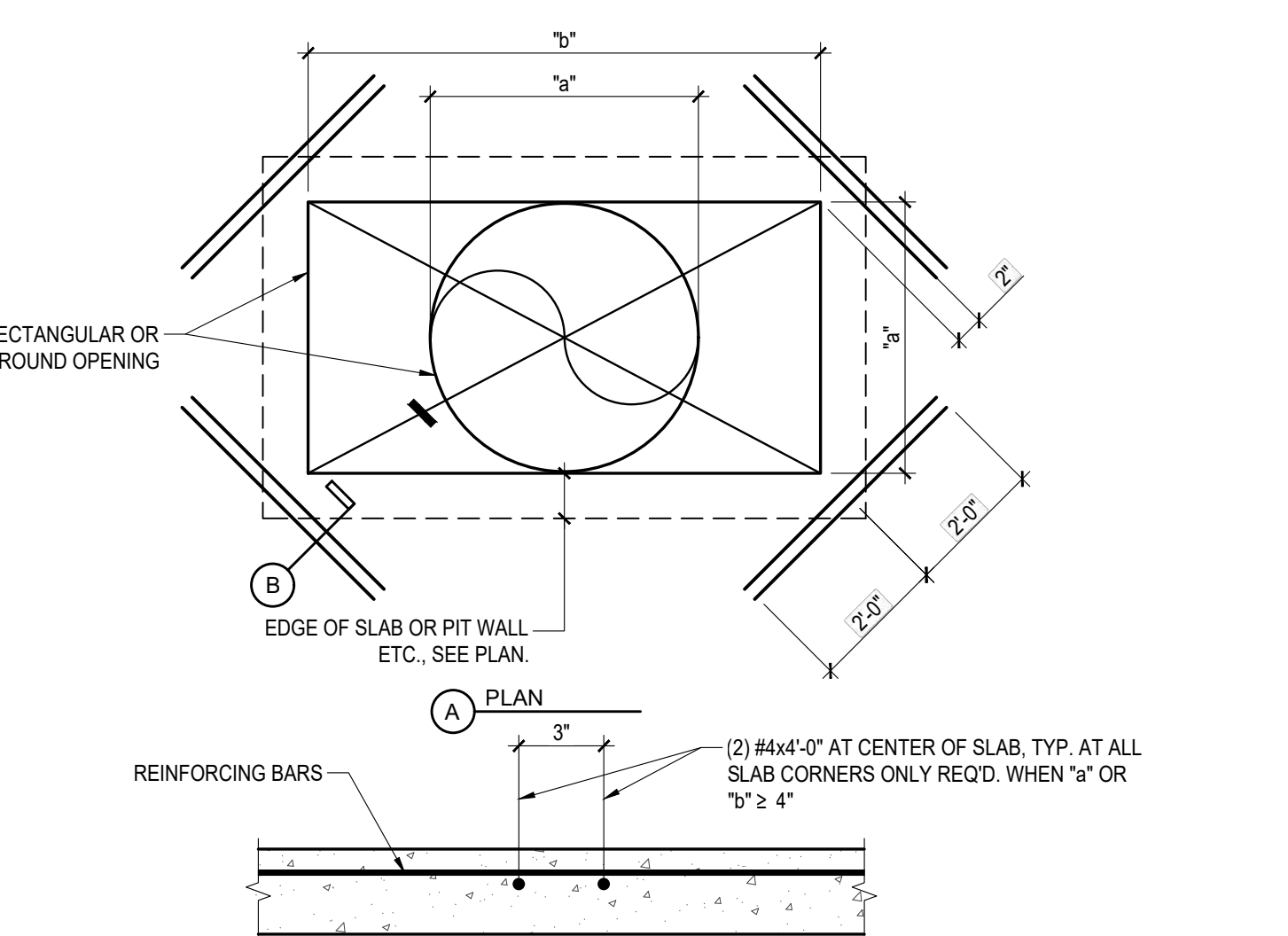
NOTES:  
 1. SLAB SHALL BE POURED IN STRIP PATTERN.  
 (1) = FIRST POUR (2) = SECOND POUR  
 2. STRIPS TO BE DIVIDED BY CONSTRUCTION JOINTS AT THE CENTERLINE OF COLUMNS WHERE THEY OCCUR AND SUBDIVIDED INTO AREAS NOT EXCEEDING 225 SQ. FT. BY CONSTRUCTION JOINTS.  
 3. IN AREAS WHERE COLUMNS DO NOT OCCUR, PROVIDE CONSTRUCTION AND CONTRACTION JOINTS AS ABOVE.  
 4. CONTRACTORS SHALL OBTAIN ARCHITECT'S APPROVAL FOR ALL JOINT LOCATIONS.  
 5. SEE GEOTECHNICAL REPORT AND DETAIL 5I FOR MINIMUM SUBGRADE PREPARATION REQUIREMENTS.

3 METHOD OF PLACING SLAB ON GRADE  
 SCALE: N.T.S.



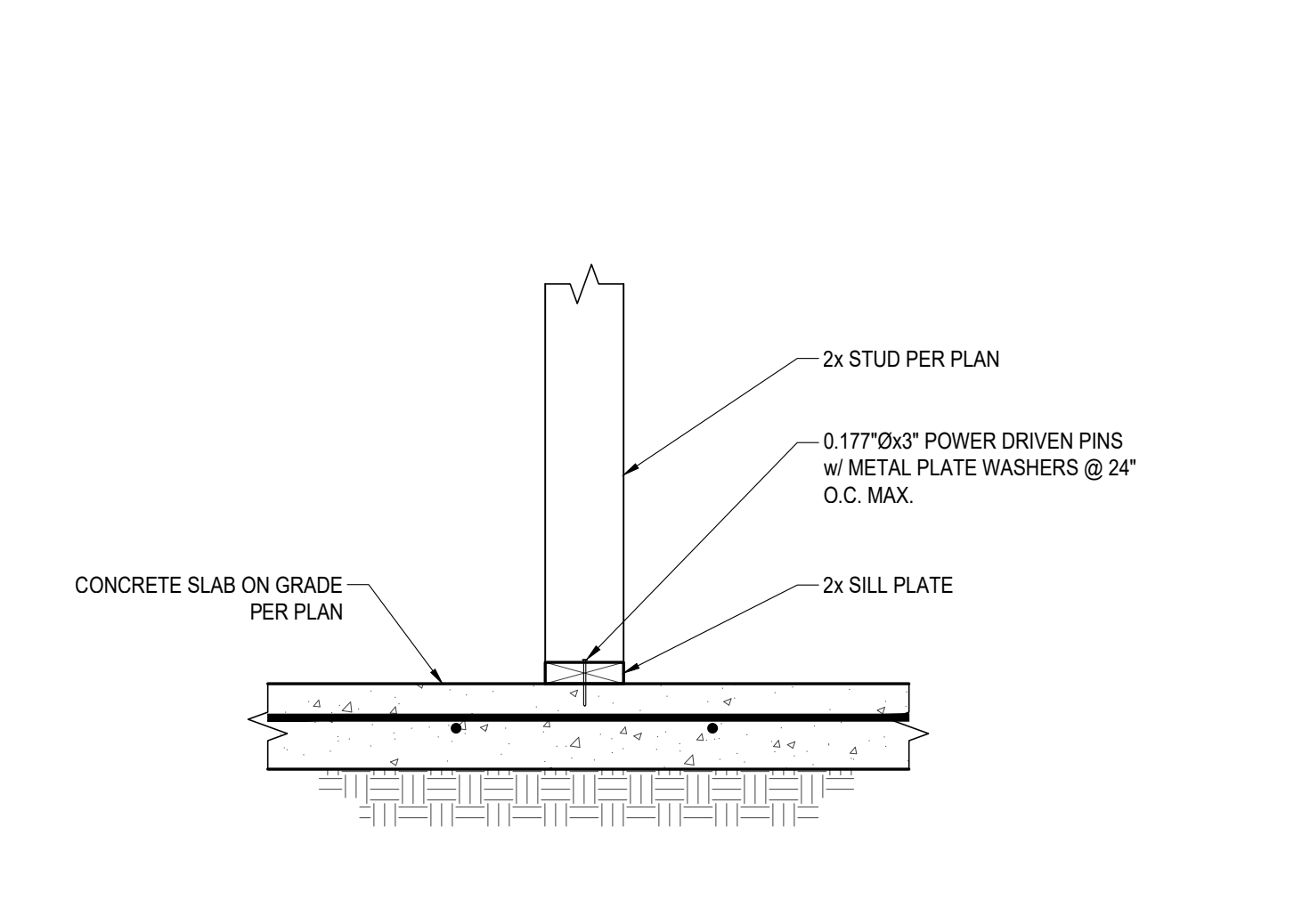
NOTES:  
 1. PROVIDE A MINIMUM SILL BOLT EMBEDMENT OF 7" BELOW TOP OF CONCRETE.  
 2. PROVIDE AN ADDITIONAL SILL BOLT 6" MINIMUM FROM END OF EACH PIECE OF SILL PLATE.  
 3. WHERE SILL PLATES ARE BORED OR NOTCHED IN EXCESS OF 1/2 OF THE SILL PLATE WIDTH, PROVIDE ADDITIONAL SILL BOLTS 6" MINIMUM EACH SIDE OF BORE OR NOTCH.  
 4. SET ALL SILL BOLTS WITH A SETTING TEMPLATE BEFORE PLACING CONCRETE.  
 5. THE CONTRACTOR MUST COORDINATE AND IF NECESSARY DECREASE THE SILL BOLT SPACING SO THAT THE TOTAL NUMBER OF SILL BOLTS REQUIRED ARE INSTALLED IN ALL SHEAR WALL SILL PLATES (IE: IN A 4' SHEARWALL W/ SILL BOLTS SPACED @ 16" O.C. & 9" OFF EACH END THERE BE 48/16+14 SILL BOLT ANCHORS), TYP.  
 6. STANDARD HOOKED ANCHOR BOLTS OF THE SAME SIZE AND SPACING MAY BE SUBSTITUTED IN PLACE OF HEADED BOLTS.

5 TYP. ANCHOR BOLTS EMBEDMENT  
 SCALE: N.T.S.



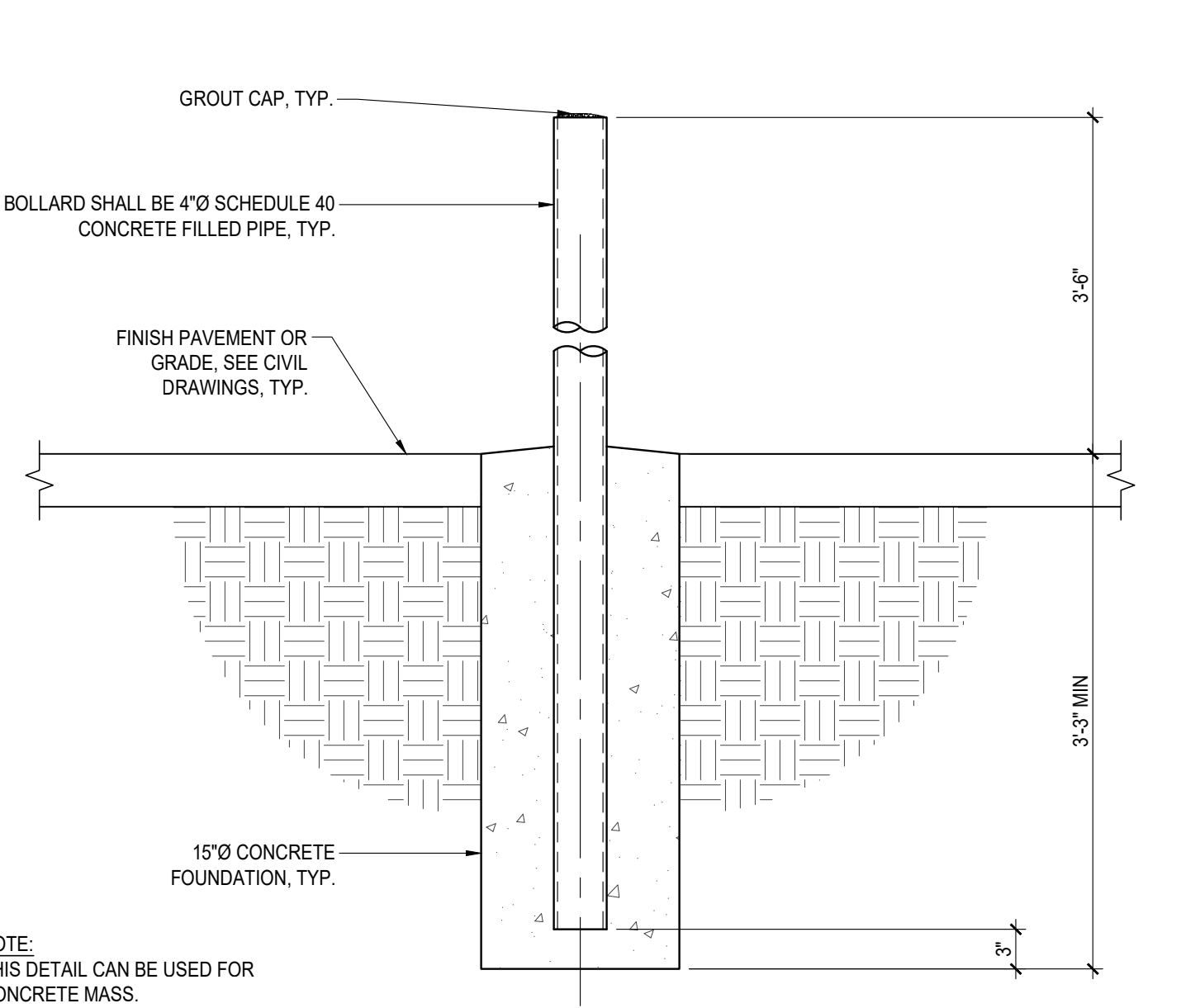
NOTE:  
 FOR DIMENSIONS, SEE PLAN, ARCH., MECH., ETC.

7 TYPICAL OPENING IN SLAB ON GRADE  
 SCALE: 1" = 1'-0"



NOTE:  
 THIS DETAIL CAN BE USED FOR CONCRETE MASS.

8 TYP. NON-BEARING STUD WALL TO FOUNDATION  
 SCALE: N.T.S.



9 TYPICAL BOLLARD DETAIL  
 SCALE: 1" = 1'-0"

$f_c = 4000 \text{ PSI or } 4500 \text{ PSI}$

| BAR SIZE | TOP BARS |        | OTHER BARS |        |
|----------|----------|--------|------------|--------|
|          | CASE 1   | CASE 2 | CASE 1     | CASE 2 |
| #3       | 19       | 28     | 15         | 22     |
| #4       | 25       | 37     | 19         | 29     |
| #5       | 31       | 47     | 24         | 36     |
| #6       | 37       | 56     | 29         | 43     |
| #7       | 54       | 81     | 42         | 63     |
| #8       | 62       | 93     | 48         | 71     |
| #9       | 70       | 105    | 54         | 81     |
| #10      | 79       | 118    | 61         | 91     |
| #11      | 87       | 131    | 67         | 101    |
| #14      | 105      | 157    | 81         | 121    |
| #18      | 139      | 209    | 107        | 161    |

NOTES:  
 1. THIS TABLE FOR USE WITH NORMAL WEIGHT HARDROCK CONCRETE AND GRADE 60 UNCOATED REINFORCING BARS. FOR LIGHTWEIGHT AGGREGATE USE  $1.3 l_d$ .  $l_d$  = TENSION DEVELOPMENT LENGTH SHOWN AT THIS TABLE.  
 2. TOP BARS ARE HORIZONTAL BARS WITH MORE THAN 12" OF CONCRETE CAST IN THE MEMBER BELOW THE BAR.  
 3. FOR BARS ENCLOSED IN STANDARD COLUMN SPIRALS, USE  $0.75 l_d$  OR 12" MIN.  
 4. TENSION DEVELOPMENT LENGTH OF INDIVIDUAL BARS WITH A BUNDLE SHALL BE  $1.2 l_d$  FOR THAT BAR IN A 3-BAR BUNDLE AND  $1.33 l_d$  FOR A 4-BAR BUNDLE.  
 5. COMPRESSION DEVELOPMENT LENGTH (ONLY WHERE INDICATED ON DRAWINGS) FOR GRADE 60 BARS USE 22 BAR DIAMETERS.  
 6. CASES 1 AND 2 ARE DEFINED AS FOLLOWS:  
 BEAMS OR COLUMNS  
 CASE 1: COVER AT LEAST 1.0 db AND CENTER TO CENTER SPACING AT LEAST 2.0 db.  
 CASE 2: COVER LESS THAN 1.0 db OR CENTER TO CENTER SPACING LESS THAN 2.0 db.  
 ALL OTHER MEMBERS  
 CASE 1: COVER AT LEAST 1.0 db AND CENTER TO CENTER SPACING AT LEAST 3.0 db.  
 CASE 2: COVER LESS THAN 1.0 db OR CENTER TO CENTER SPACING LESS THAN 3.0 db.

10 TENSION DEVELOPMENT LENGTH (FOR CONCRETE ONLY)  
 SCALE: N.T.S.

$f_c = 4000 \text{ PSI}$

| BAR SIZE | LAP CLASS | TOP BARS |        | OTHER BARS |        |
|----------|-----------|----------|--------|------------|--------|
|          |           | CASE 1   | CASE 2 | CASE 1     | CASE 2 |
| #3       | A         | 19       | 28     | 15         | 22     |
|          | B         | 24       | 36     | 19         | 28     |
| #4       | A         | 25       | 37     | 19         | 29     |
|          | B         | 32       | 48     | 25         | 37     |
| #5       | A         | 31       | 47     | 24         | 36     |
|          | B         | 40       | 60     | 31         | 47     |
| #6       | A         | 37       | 56     | 29         | 43     |
|          | B         | 48       | 72     | 37         | 56     |
| #7       | A         | 54       | 81     | 42         | 63     |
|          | B         | 70       | 106    | 54         | 81     |
| #8       | A         | 62       | 93     | 48         | 71     |
|          | B         | 80       | 121    | 62         | 93     |
| #9       | A         | 70       | 105    | 54         | 81     |
|          | B         | 91       | 136    | 70         | 105    |
| #10      | A         | 79       | 118    | 61         | 91     |
|          | B         | 102      | 153    | 79         | 118    |
| #11      | A         | 87       | 131    | 67         | 101    |
|          | B         | 113      | 170    | 87         | 131    |

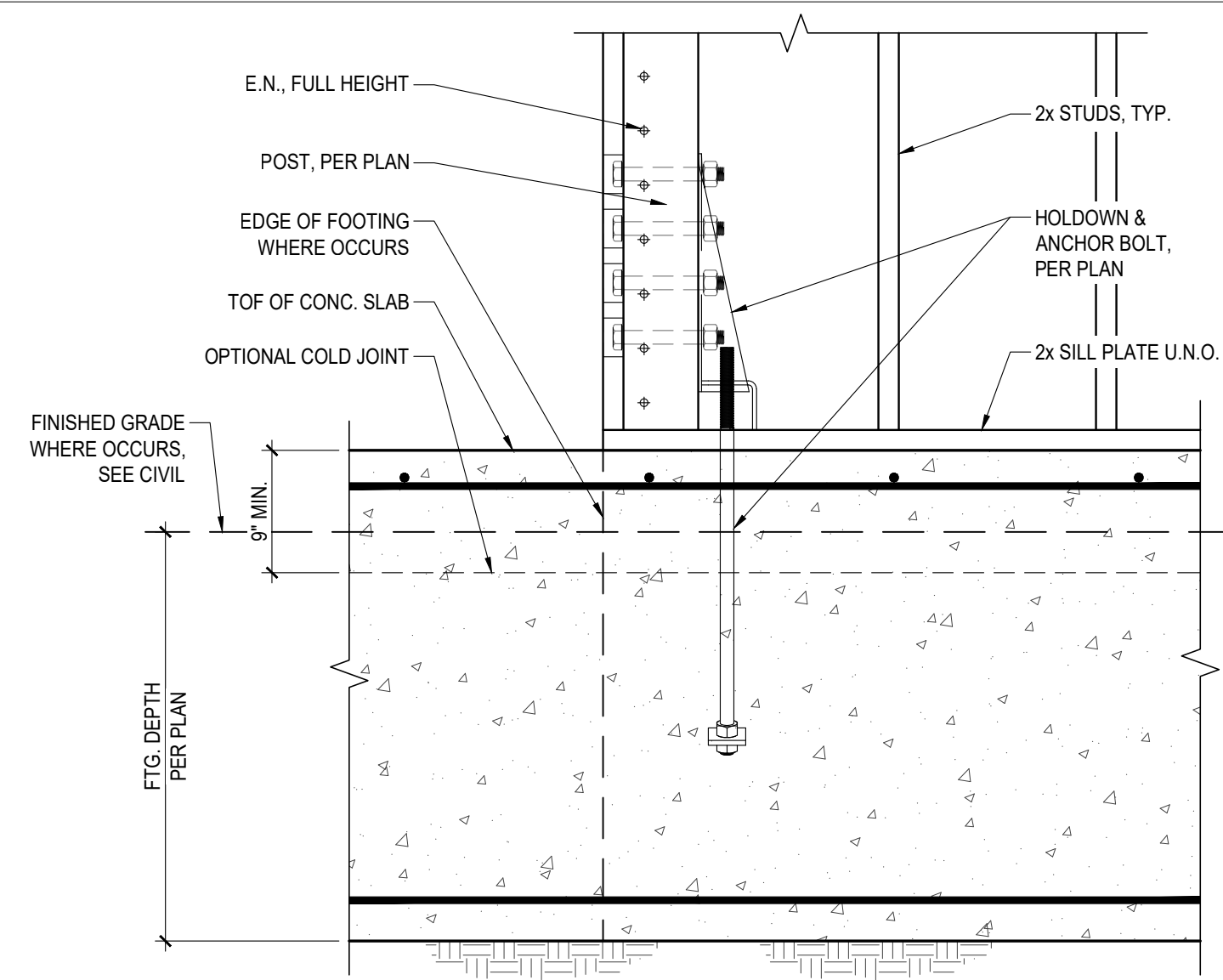
NOTES:  
 1. THIS TABLE FOR USE WITH NORMAL WEIGHT HARDROCK CONCRETE AND GRADE 60 UNCOATED REINFORCING BARS. FOR LIGHTWEIGHT AGGREGATE USE  $1.3 l_d$ .  
 2. CLASS A - HALF OR LESS OF THE BARS ARE SPLICED WITHIN A REQUIRED LAP LENGTH. CLASS B - MORE THAN HALF OF THE BARS ARE SPLICED WITHIN A REQUIRED LAP LENGTH.  
 3. TOP BARS ARE HORIZONTAL BARS WITH MORE THAN 12" OF CONCRETE CAST IN THE MEMBER BELOW THE BAR.  
 4. FOR BARS ENCLOSED IN STANDARD COLUMN SPIRALS, USE  $0.75 l_d$  OR 12" MIN.  
 5. LAP SPLICES OF INDIVIDUAL BARS WITH A BUNDLE SHALL BE  $1.2 l_d$  FOR THAT BAR IN A 3-BAR BUNDLE AND  $1.3 l_d$  FOR A 4-BAR BUNDLE. ENTIRE BUNDLES SHALL NOT BE LAP SPLICED AT THE SAME LOCATION. SPLICES FOR INDIVIDUAL BARS WITHIN A BUNDLE SHALL BE STAGGERED SUCH THAT THEY DO NOT OVERLAP.  
 6. COMPRESSION LAP SPLICE (ONLY WHERE INDICATED ON DRAWINGS) FOR GRADE 60 BARS USE 30 BAR DIAMETERS.  
 7. CASES 1 AND 2 ARE DEFINED AS FOLLOWS:  
 BEAMS OR COLUMNS  
 CASE 1: COVER AT LEAST 1.0 db AND CENTER TO CENTER SPACING AT LEAST 2.0 db.  
 CASE 2: COVER LESS THAN 1.0 db OR CENTER TO CENTER SPACING LESS THAN 2.0 db.  
 ALL OTHER MEMBERS  
 CASE 1: COVER AT LEAST 1.0 db AND CENTER TO CENTER SPACING AT LEAST 3.0 db.  
 CASE 2: COVER LESS THAN 1.0 db OR CENTER TO CENTER SPACING LESS THAN 3.0 db.

11 TENSION LAP SPLICE LENGTH,  $l$  (IN INCHES)  
 SCALE: N.T.S.

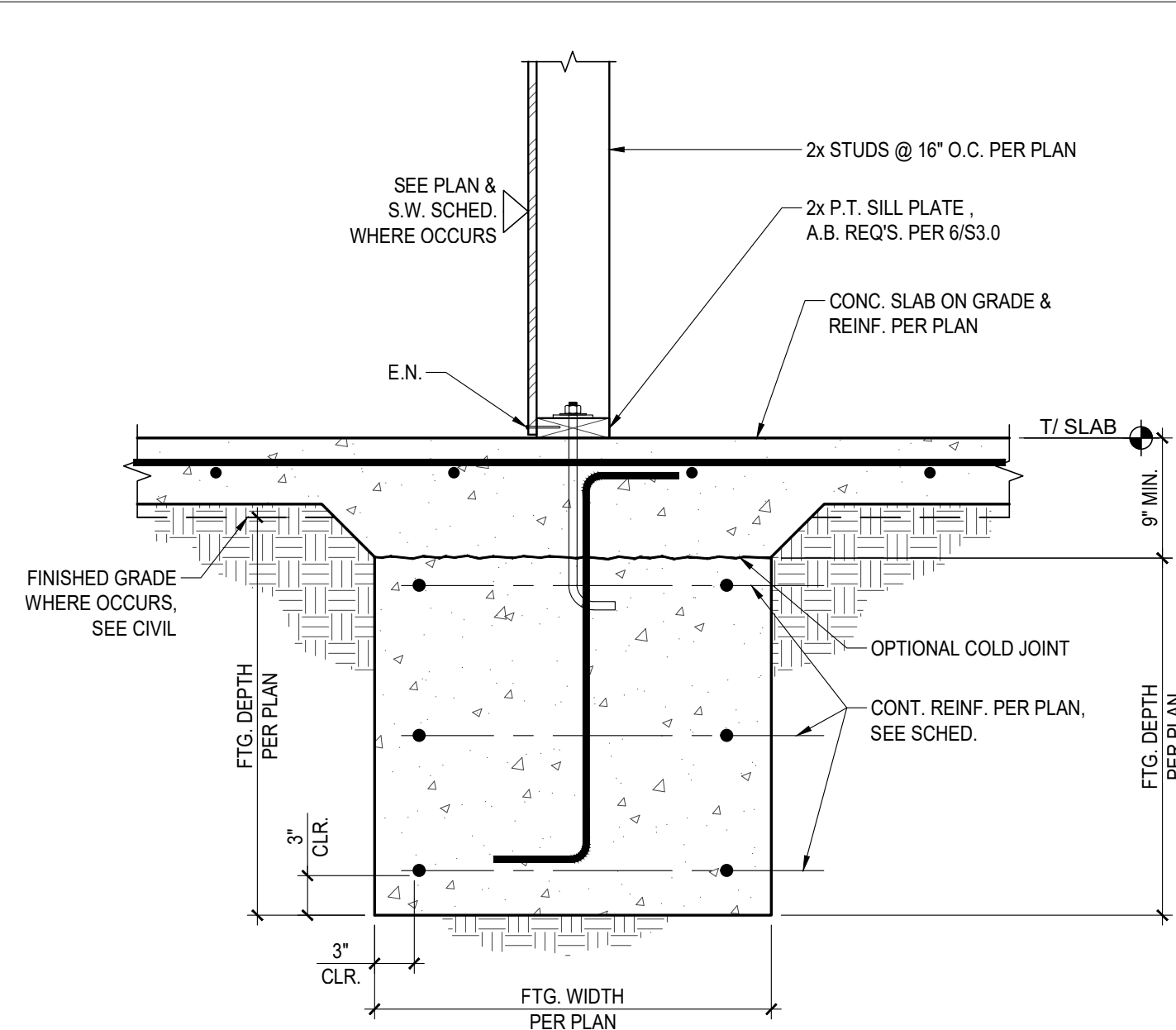
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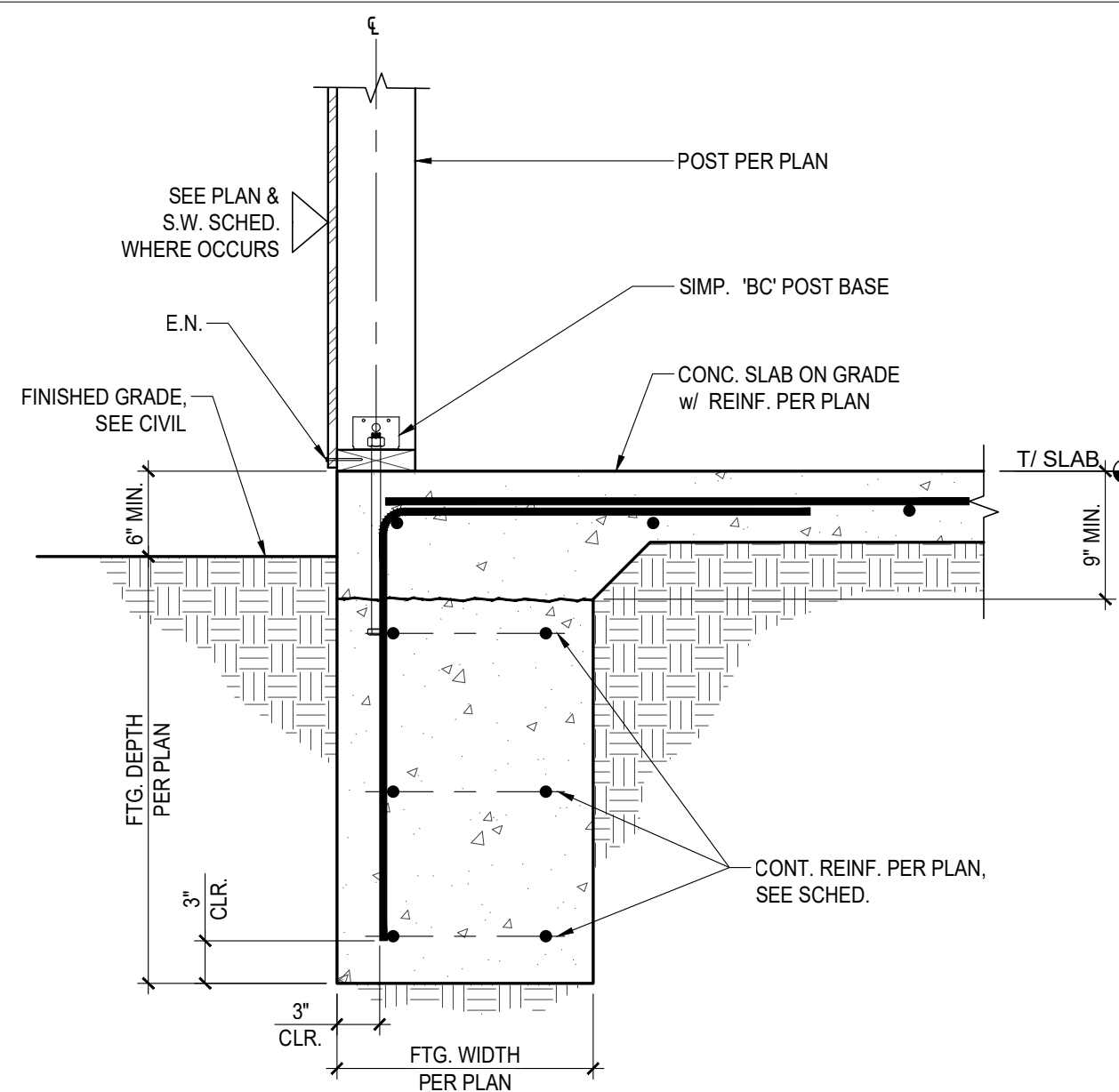
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 ISSUE DATE DESCRIPTION  
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 02/21/2022 SHEET  
**S3.0**



1 HOLDOWN DETAIL  
SCALE: N.T.S.

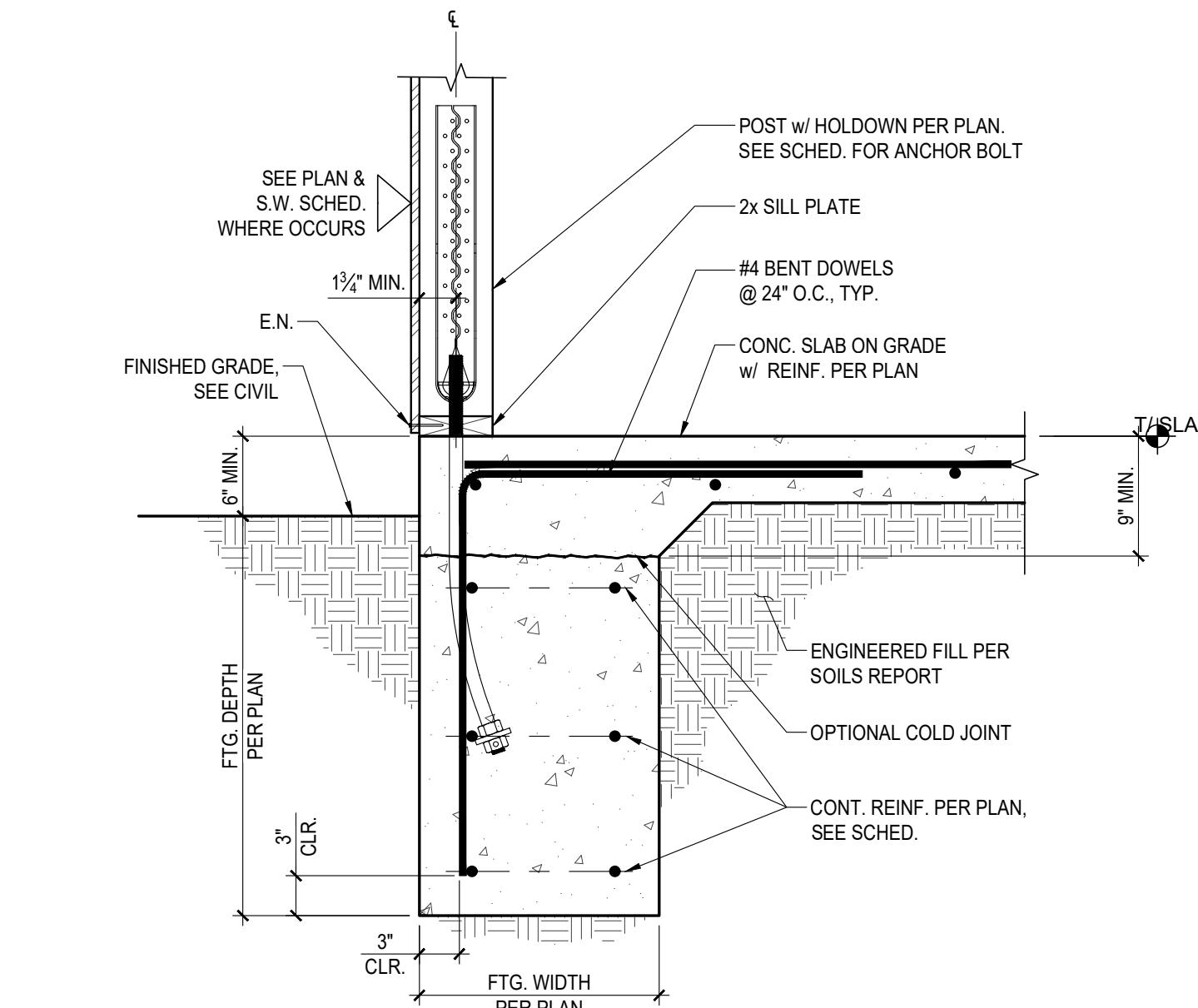


4 INTERIOR WALL FOOTING  
SCALE: 1" = 1'-0"



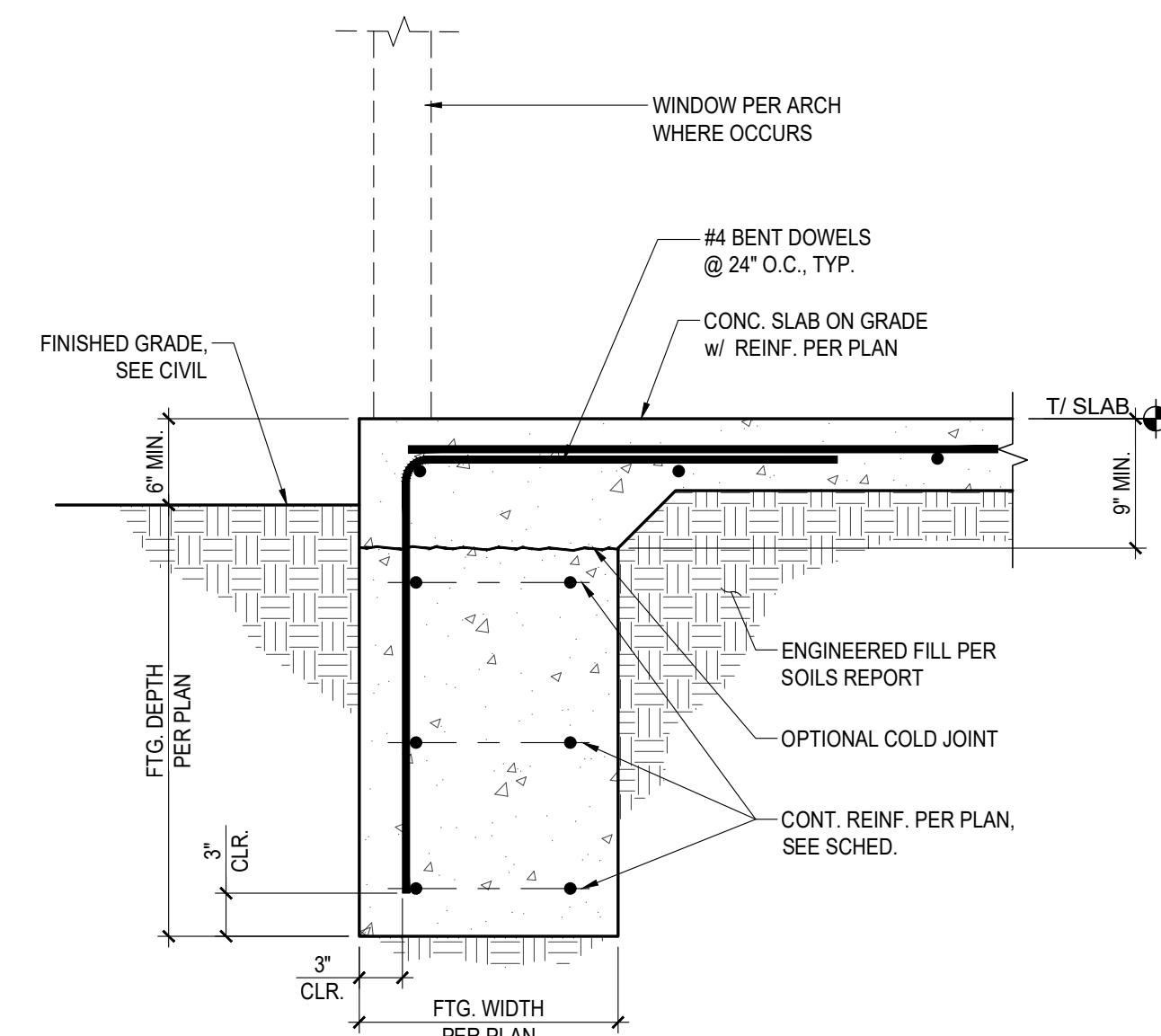
7 POST AT EXTERIOR FOOTING  
SCALE: 1" = 1'-0"

NOTE:  
1. SEE DTL. 11/S3.0 FOR LAP SPLICE REQUIREMENTS.  
2. SEE DTL. 3/- FOR BALANCE OF INFO.



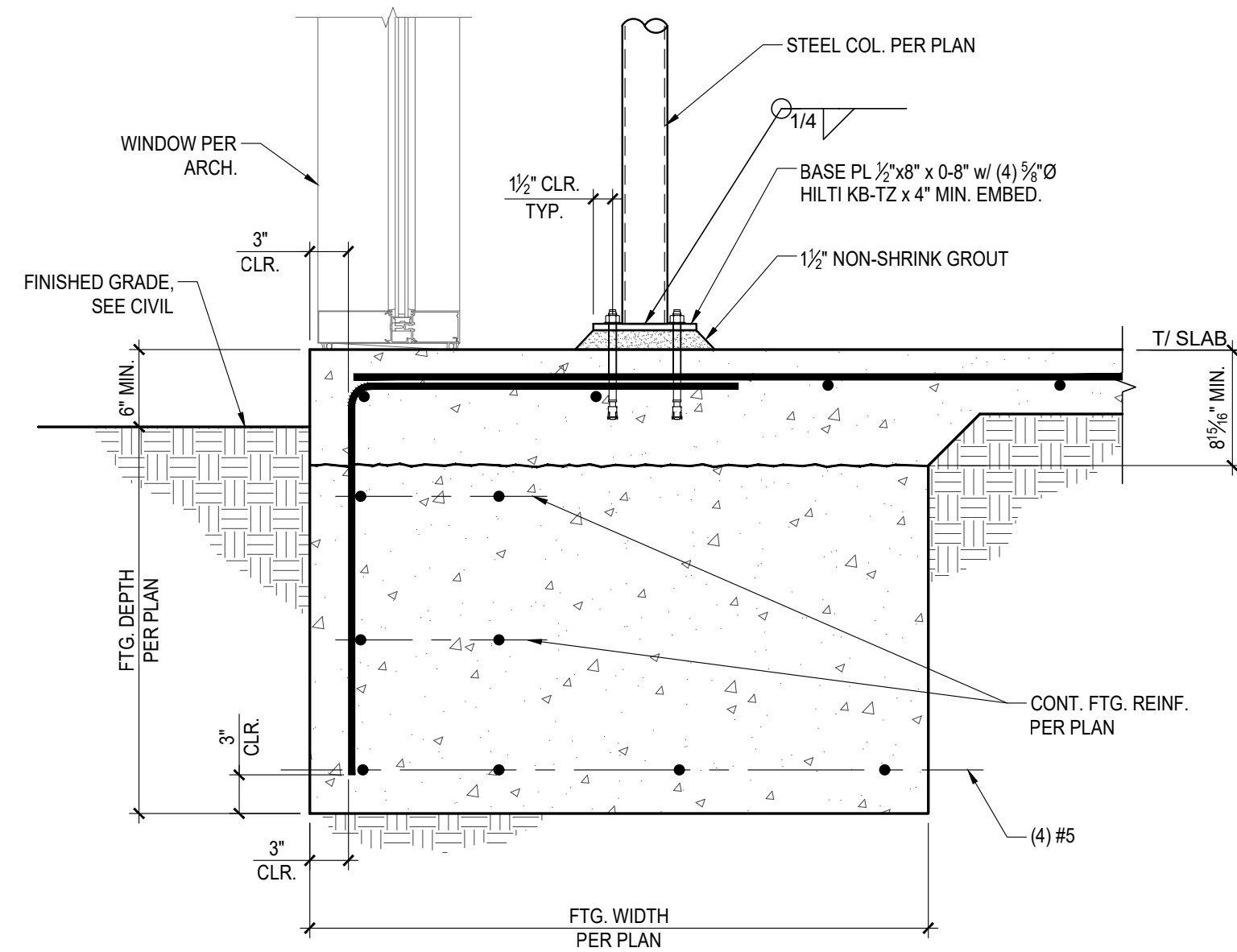
2 HOLDOWN SECTION  
SCALE: 1" = 1'-0"

NOTE:  
1. SEE DTL. 11/S3.0 FOR LAP SPLICE REQUIREMENTS.

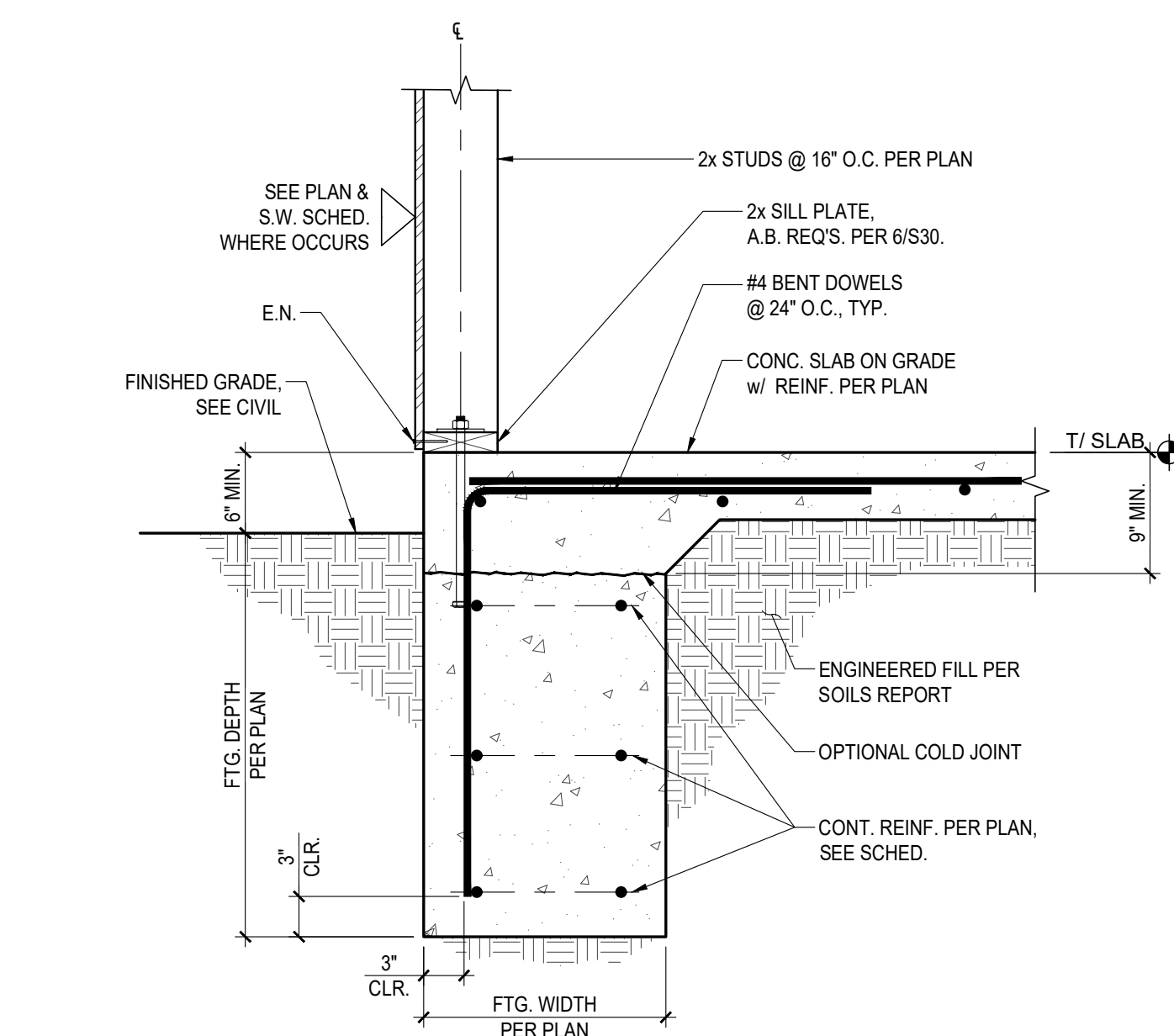


5 EXTERIOR FOOTING AT OPENING  
SCALE: 1" = 1'-0"

NOTE:  
1. SEE DTL. 11/S3.0 FOR LAP SPLICE REQUIREMENTS.

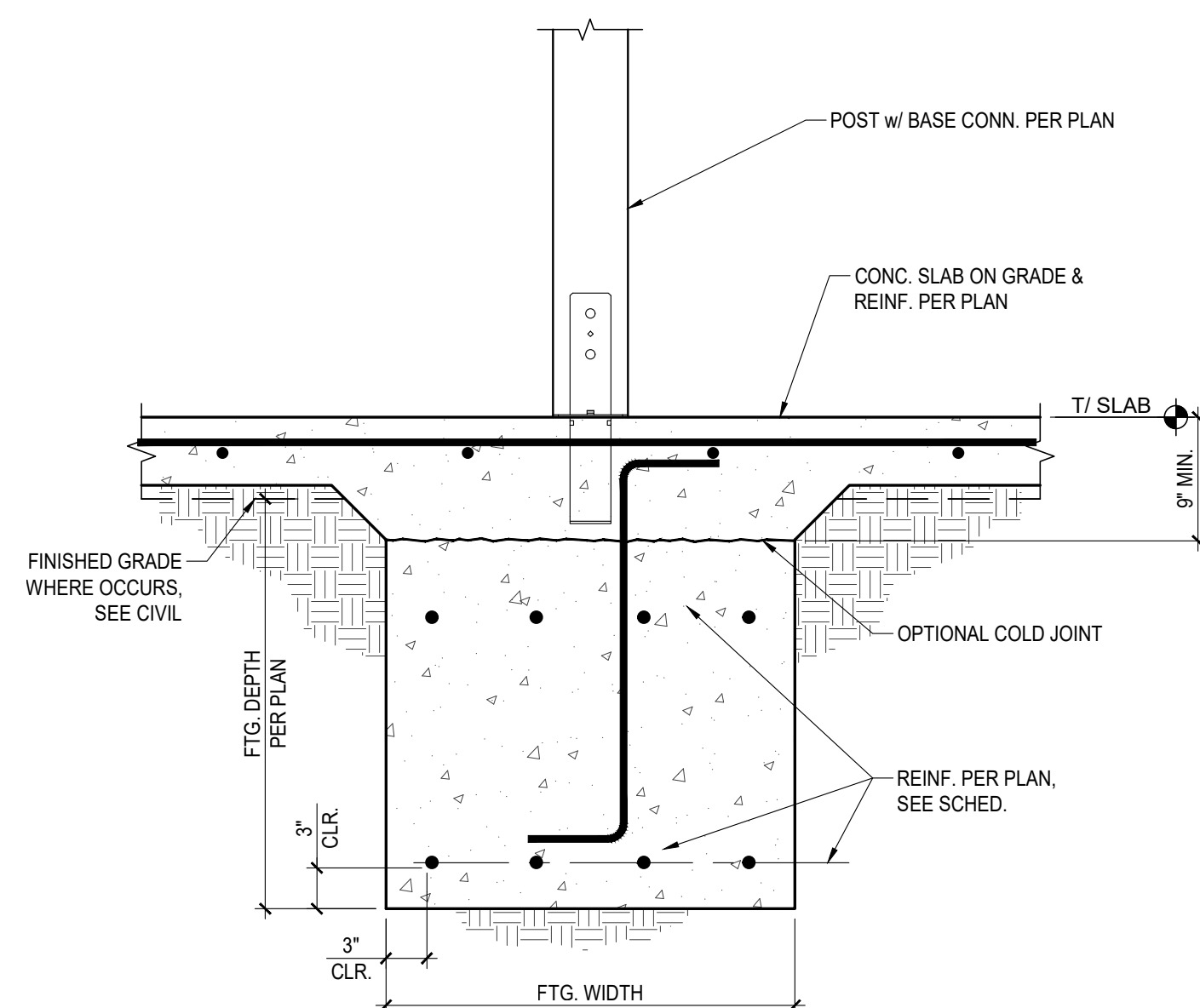


8 STEEL COLUMN TO FOOTING  
SCALE: 1" = 1'-0"



3 EXTERIOR WALL FOOTING  
SCALE: 1" = 1'-0"

NOTE:  
1. SEE DTL. 11/S3.0 FOR LAP SPLICE REQUIREMENTS.



6 POST TO SPREAD FOOTING DETAIL  
SCALE: 1" = 1'-0"

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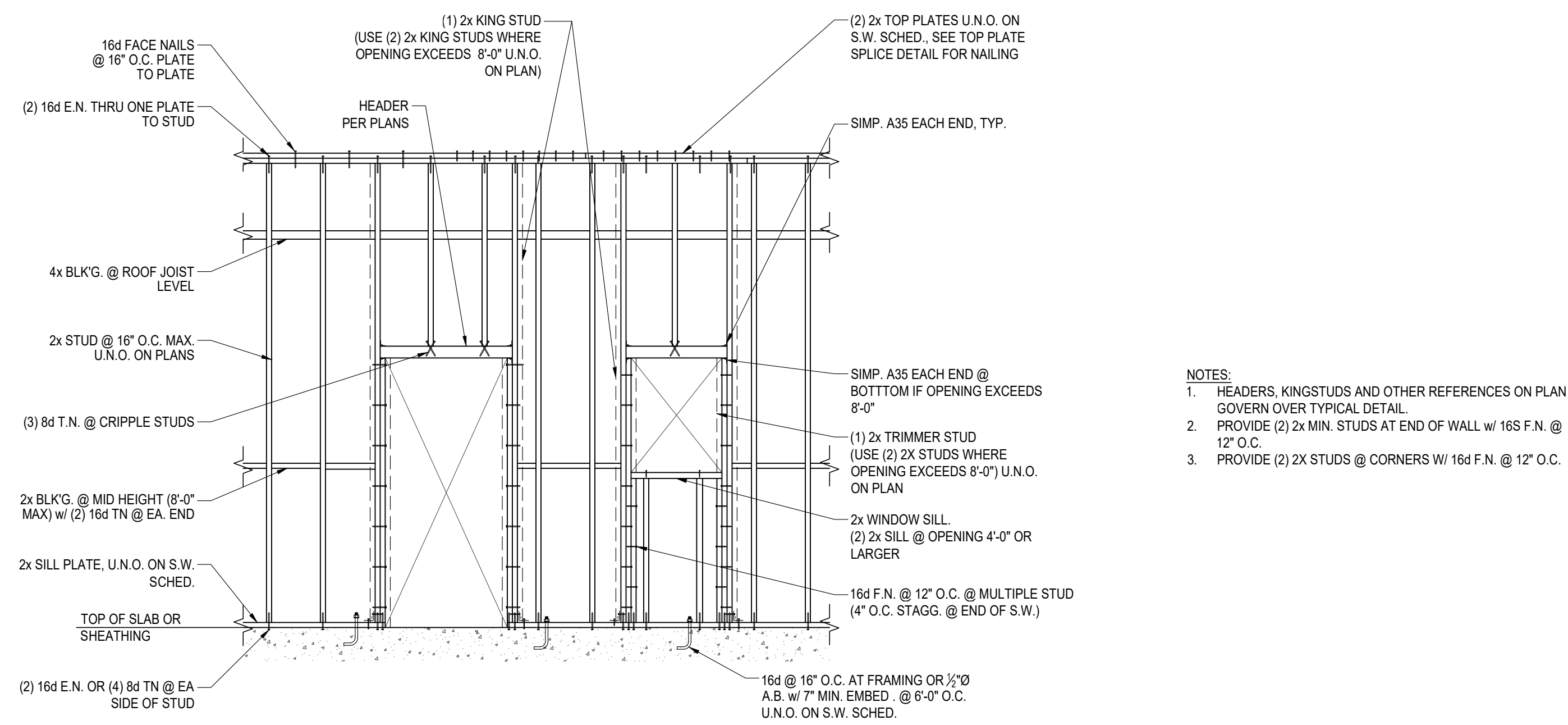
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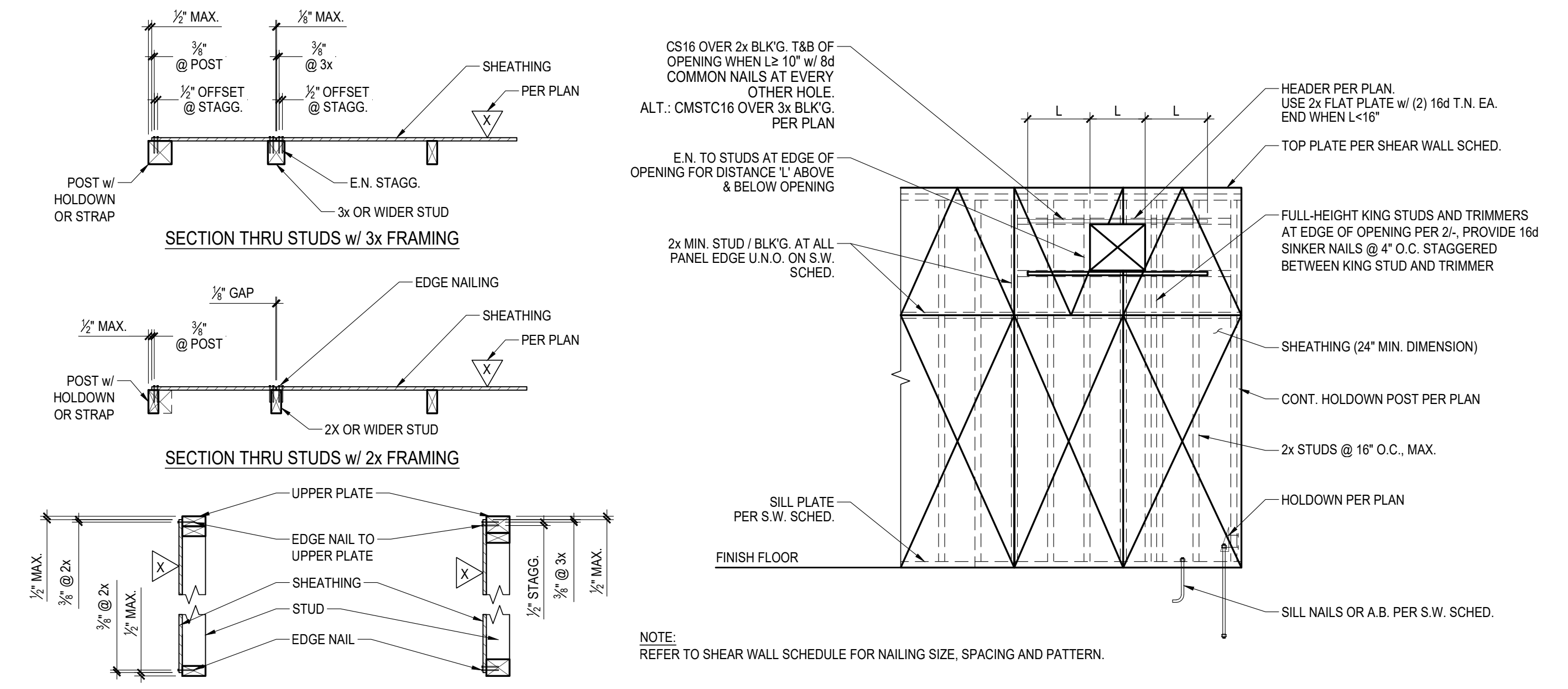
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S3.1

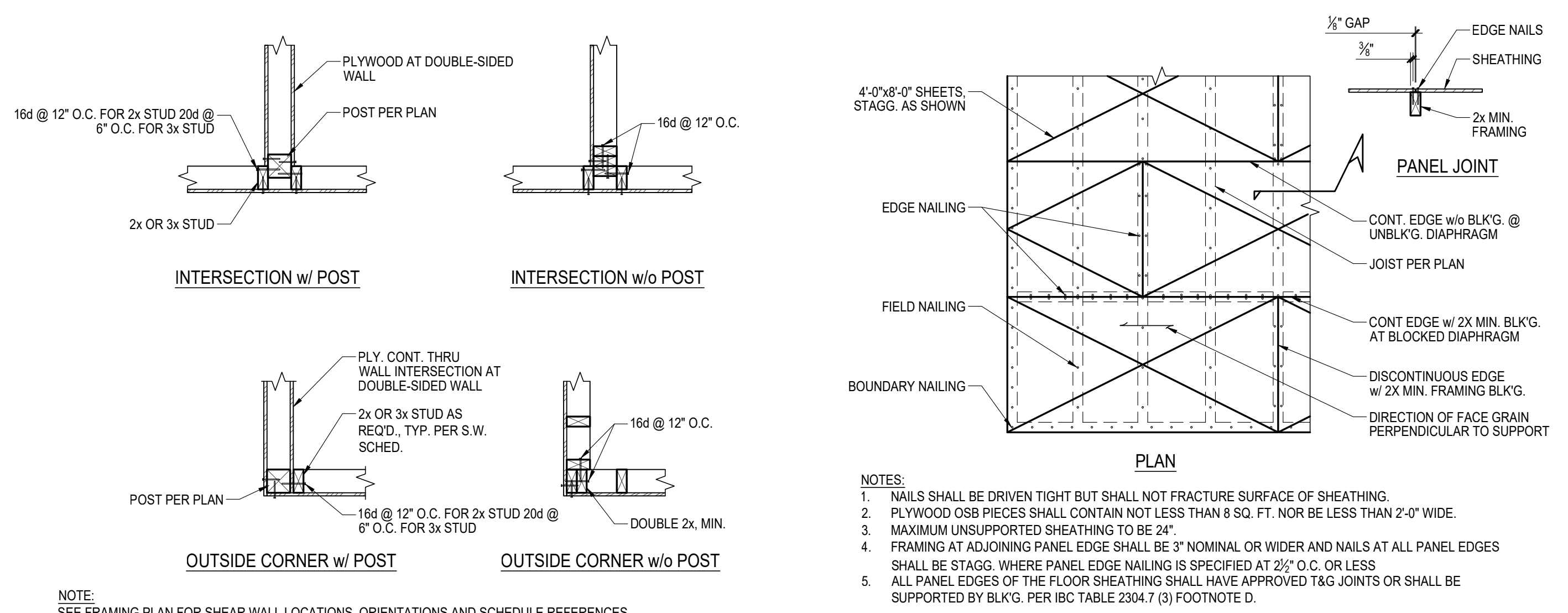




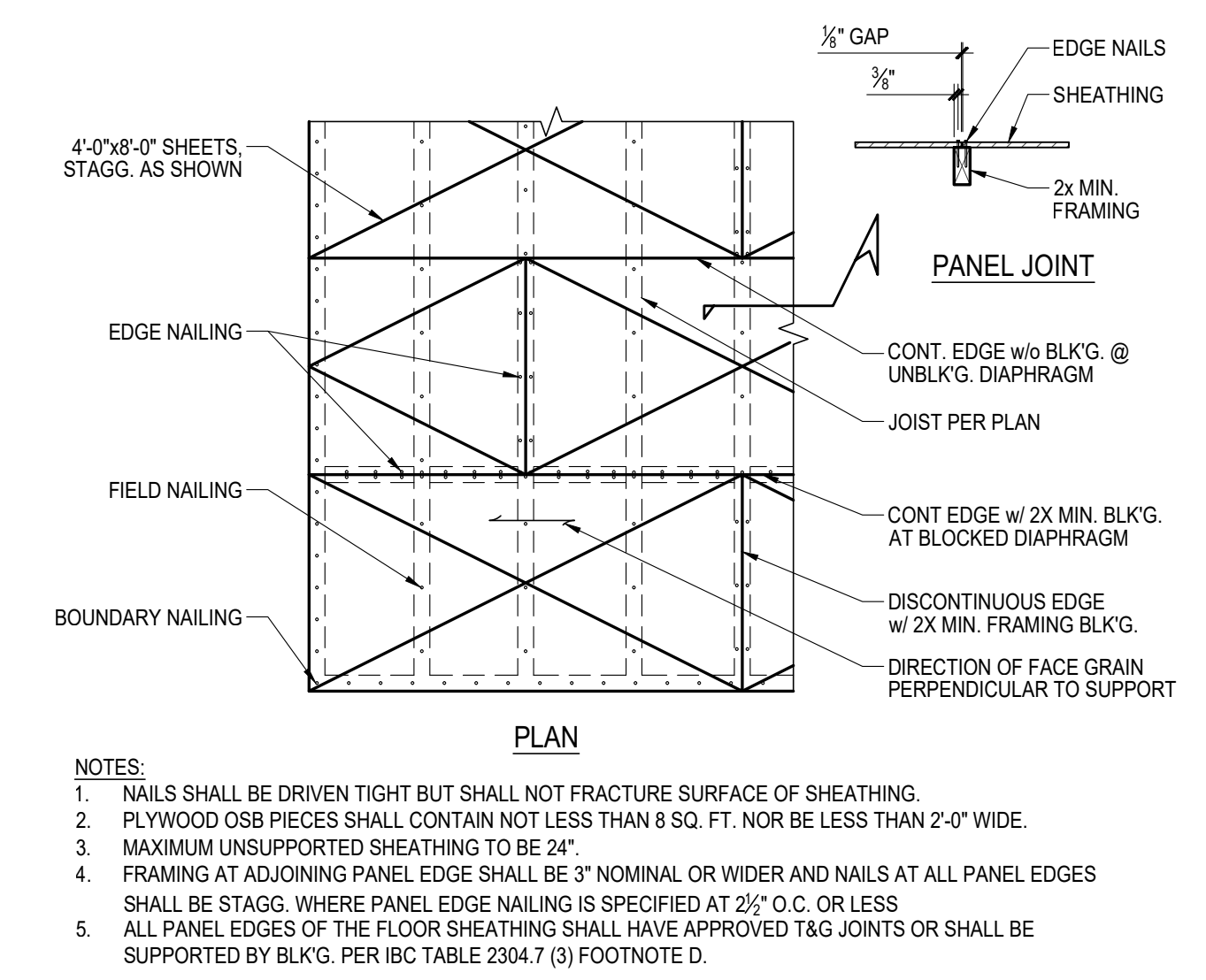
1 TYPICAL STUD WALL FRAMING ELEVATION  
SCALE: N.T.S.



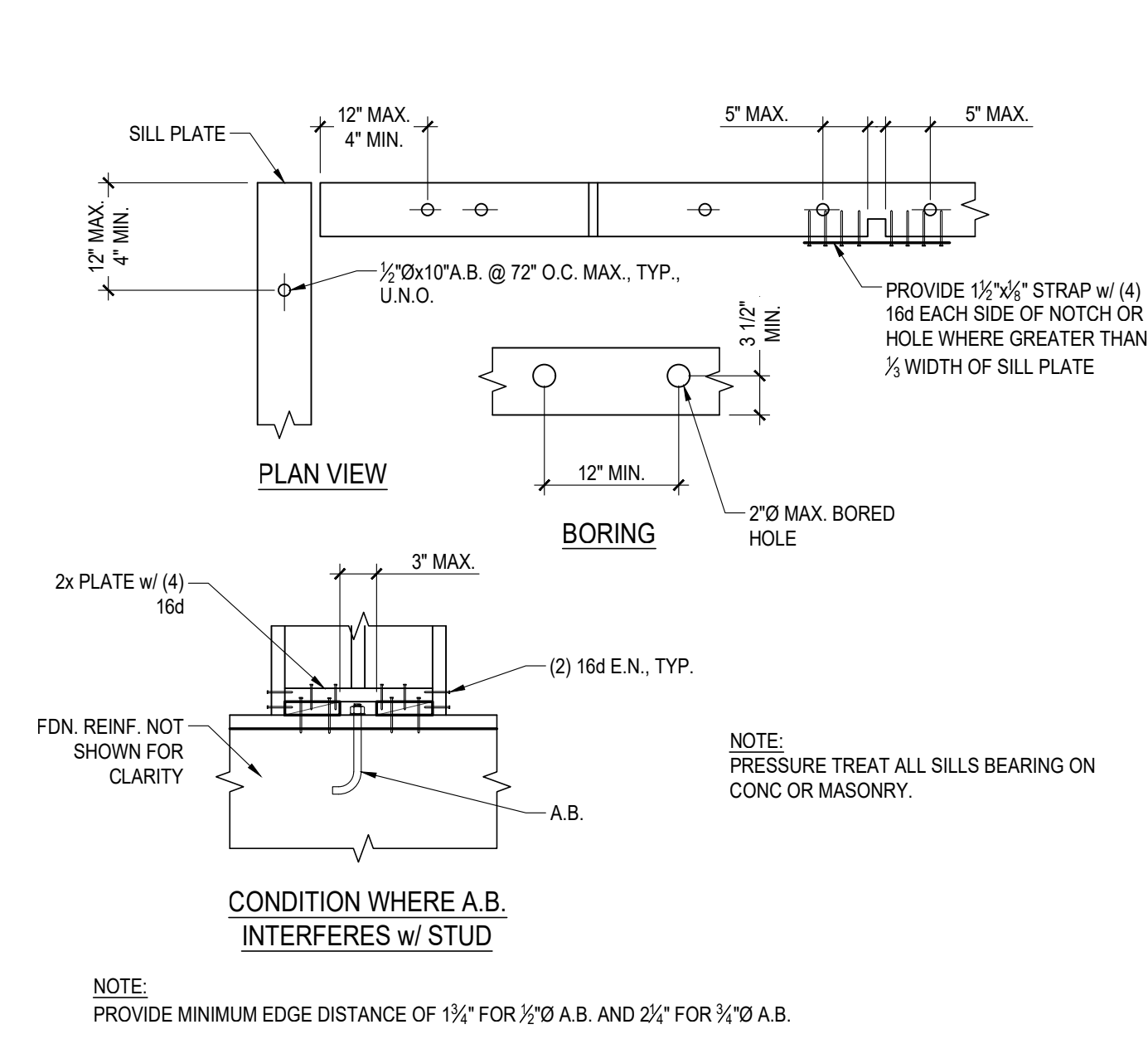
2 TYPICAL SHEAR WALL ELEVATION  
SCALE: N.T.S.



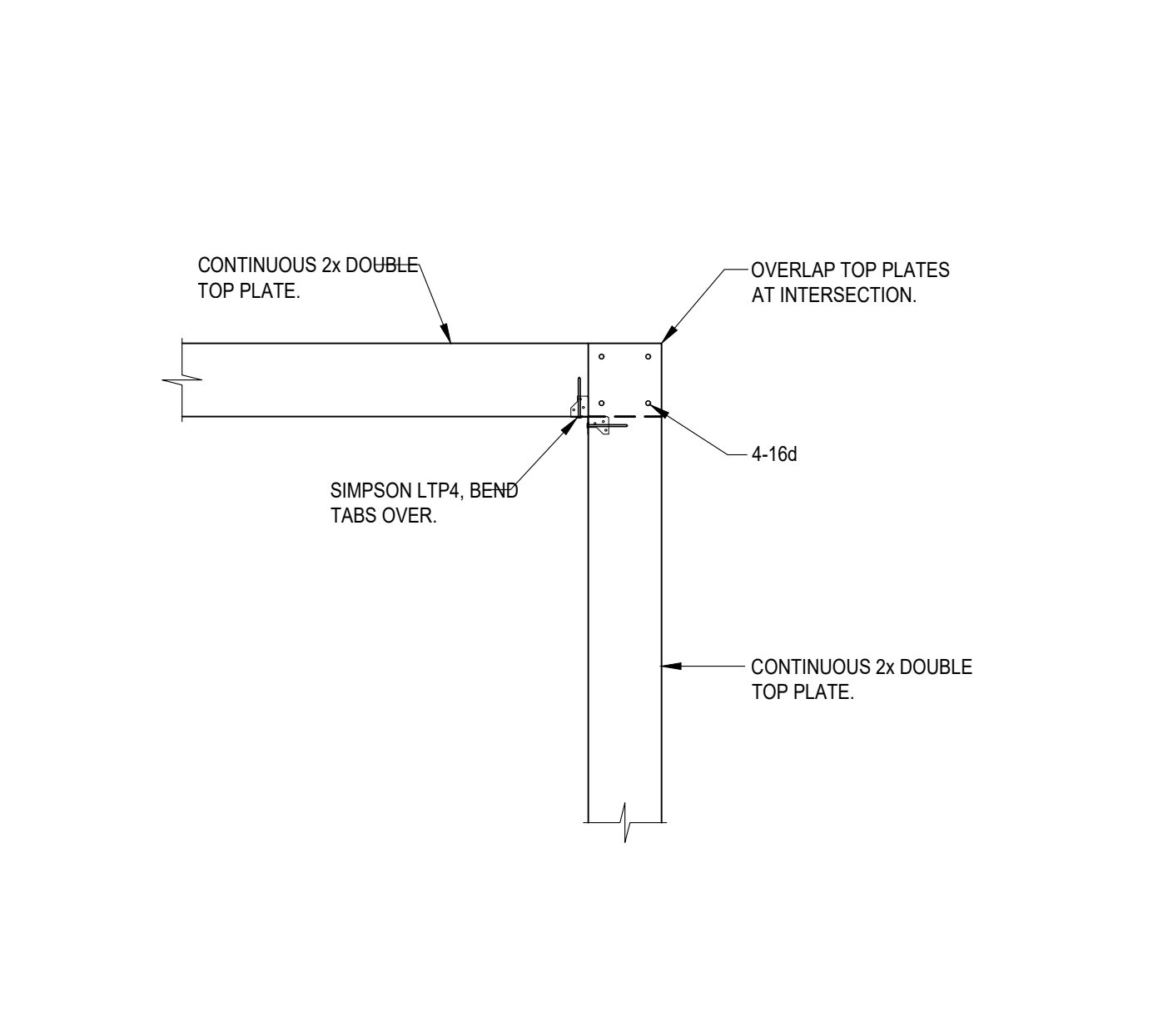
3 TYP. SHEAR WALL INTERSECTION FRAMING  
SCALE: N.T.S.



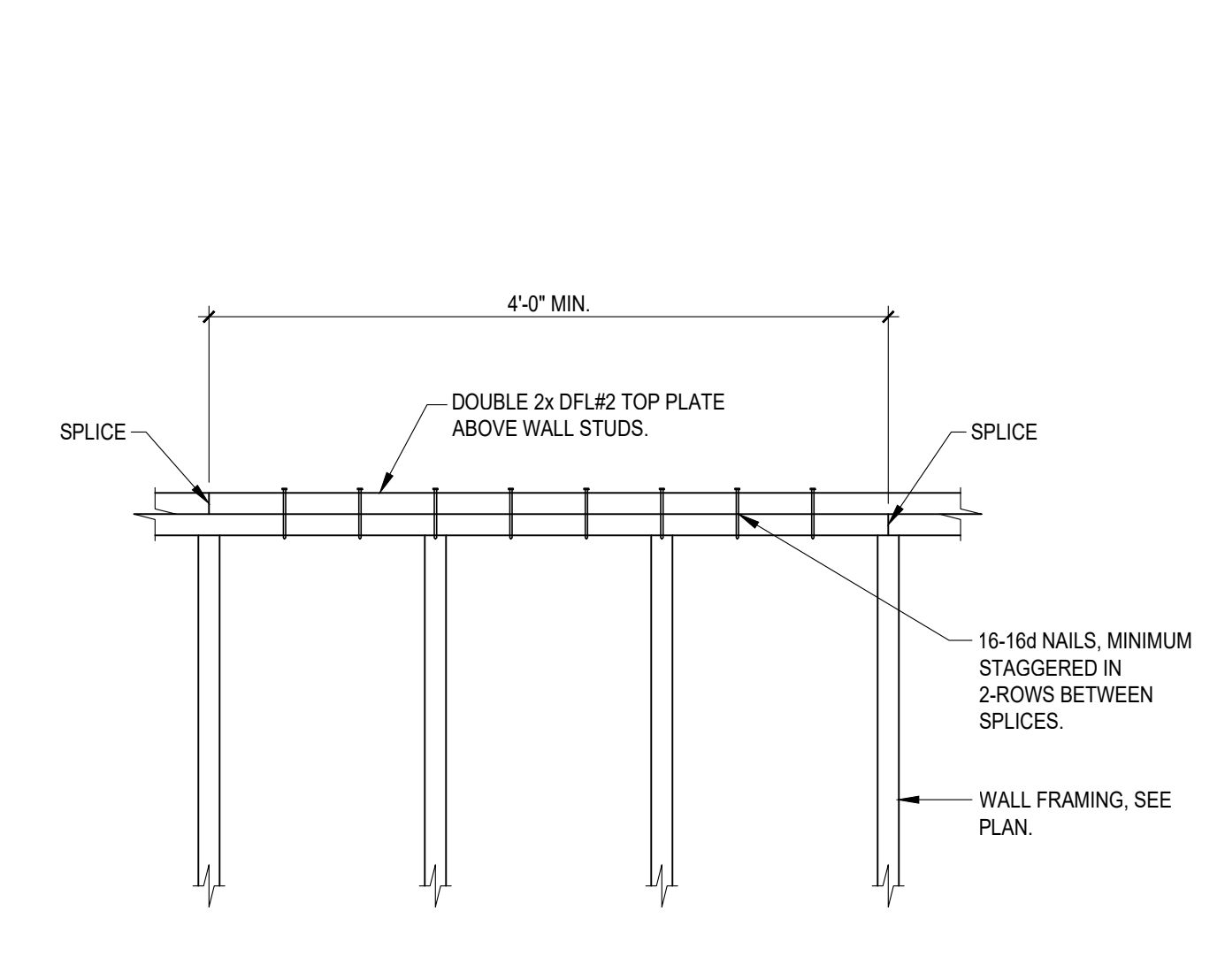
4 TYPICAL SHEATHING DETAIL  
SCALE: N.T.S.



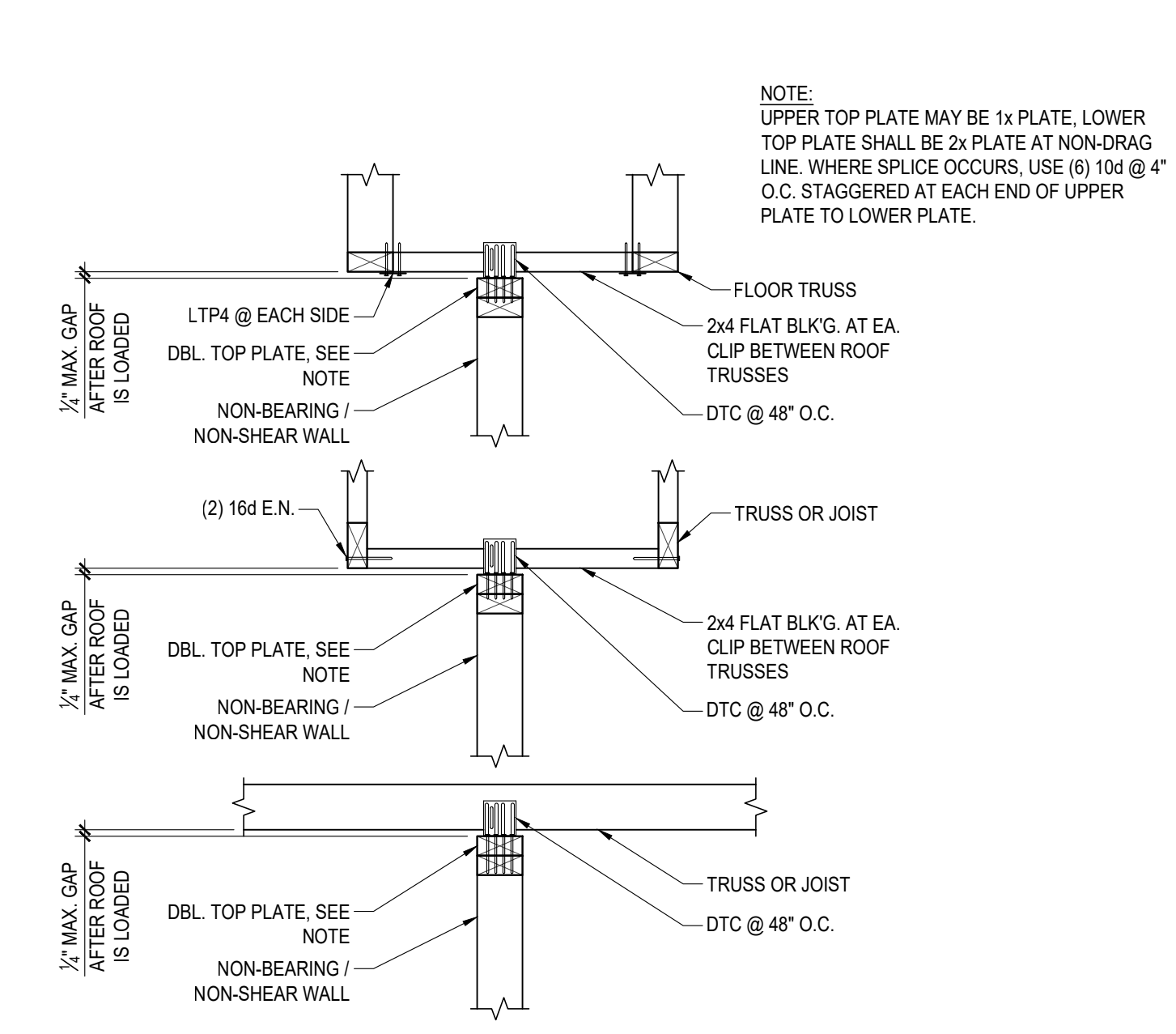
5 TYP. NOTCHING / BORING / BOLTING OF PLATES  
SCALE: N.T.S.



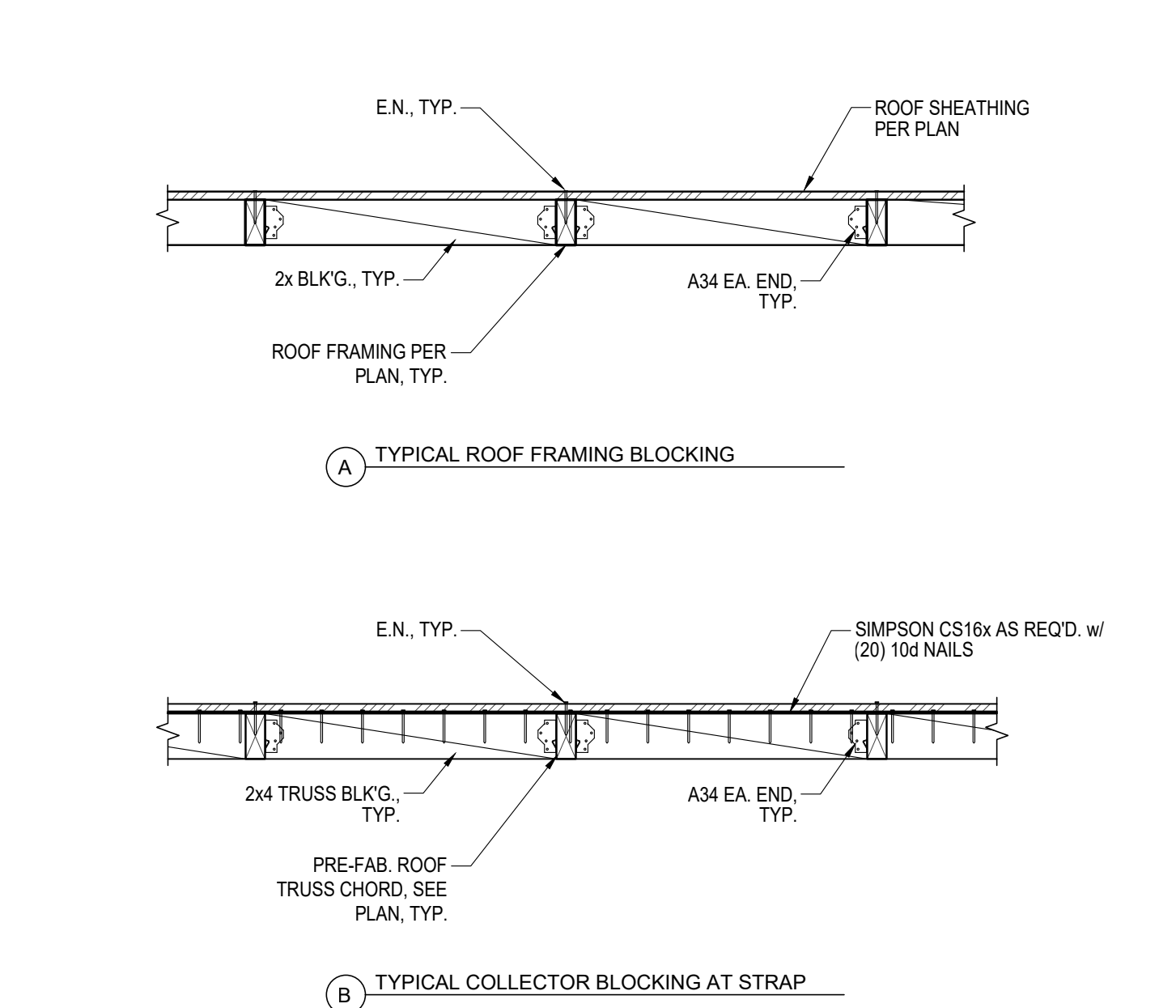
6 TYPICAL TOP PLATE AT CORNER  
SCALE: N.T.S.



7 TYPICAL TOP PLATE SPLICE  
SCALE: N.T.S.

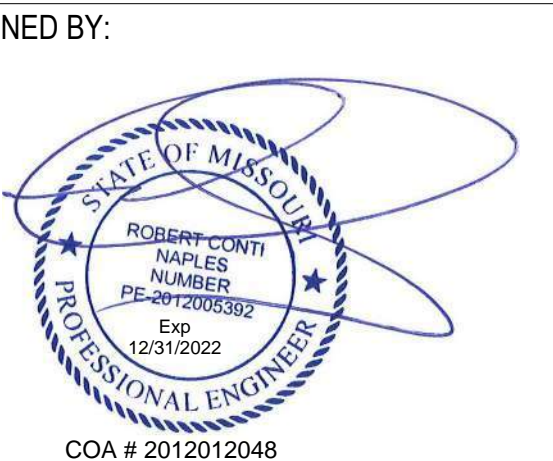


8 TYPICAL NON-BEARING WALL TO TRUSS / JOIST  
SCALE: N.T.S.



9 TYPICAL BLOCKING DETAILS  
SCALE: N.T.S.

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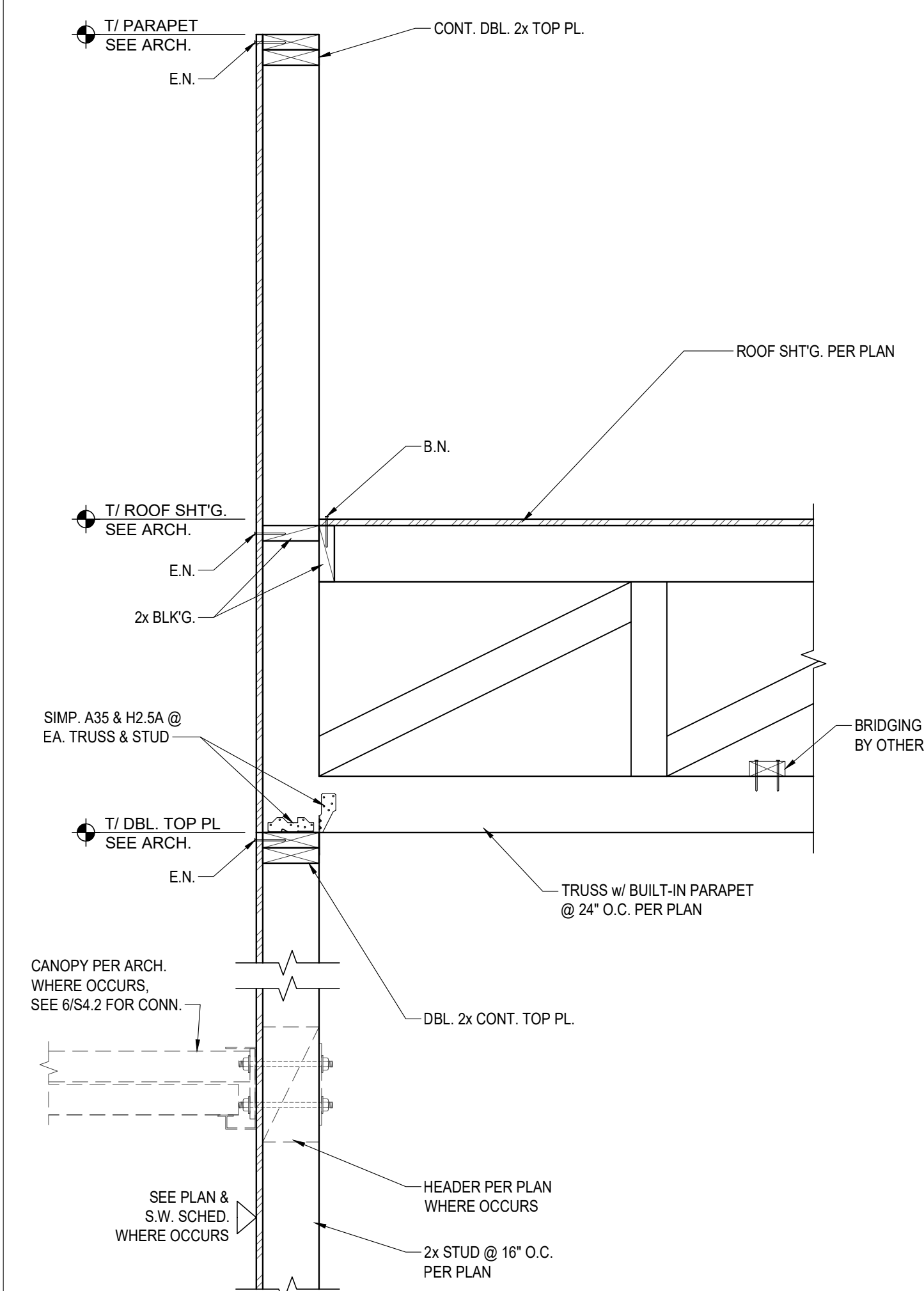
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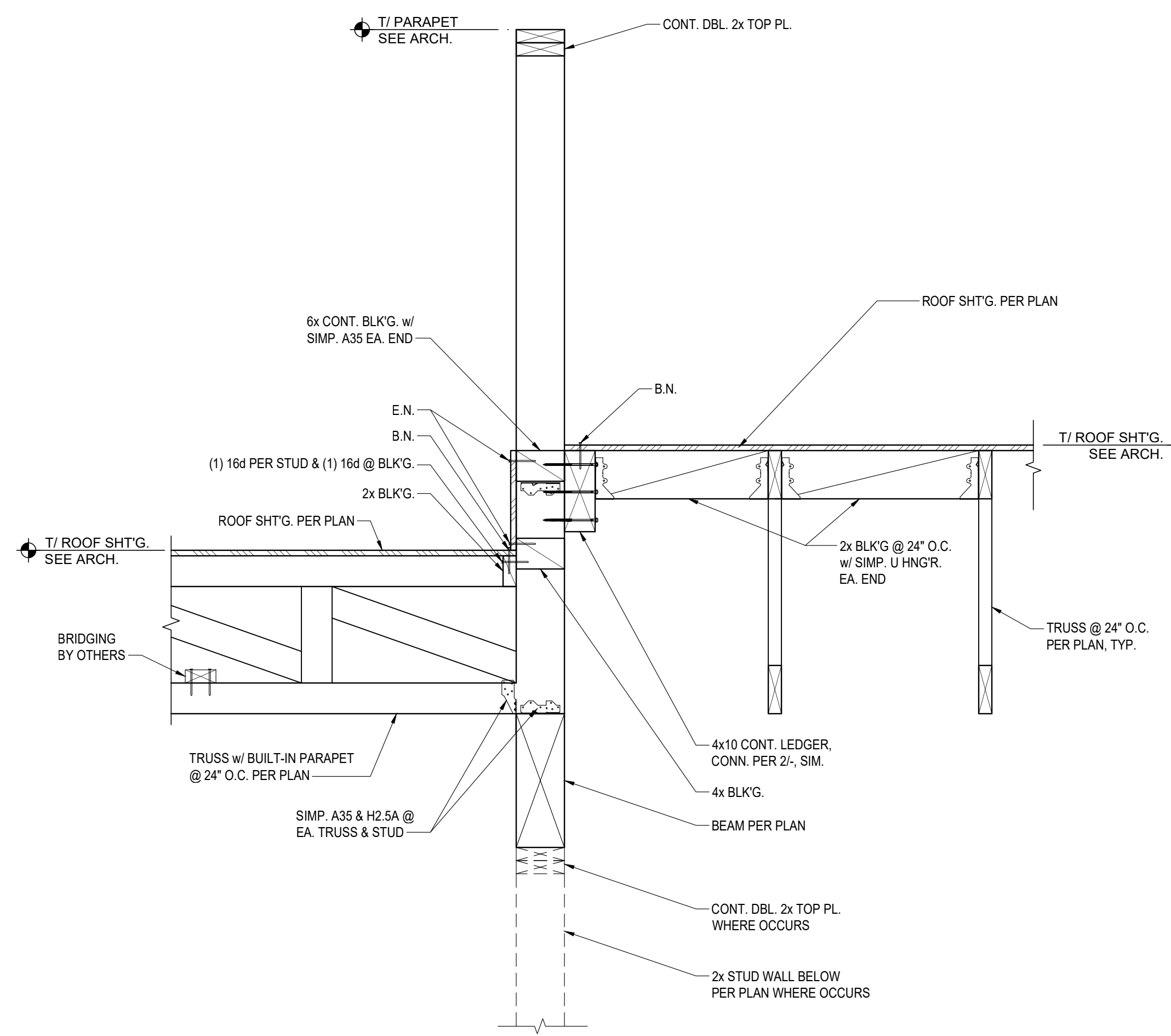
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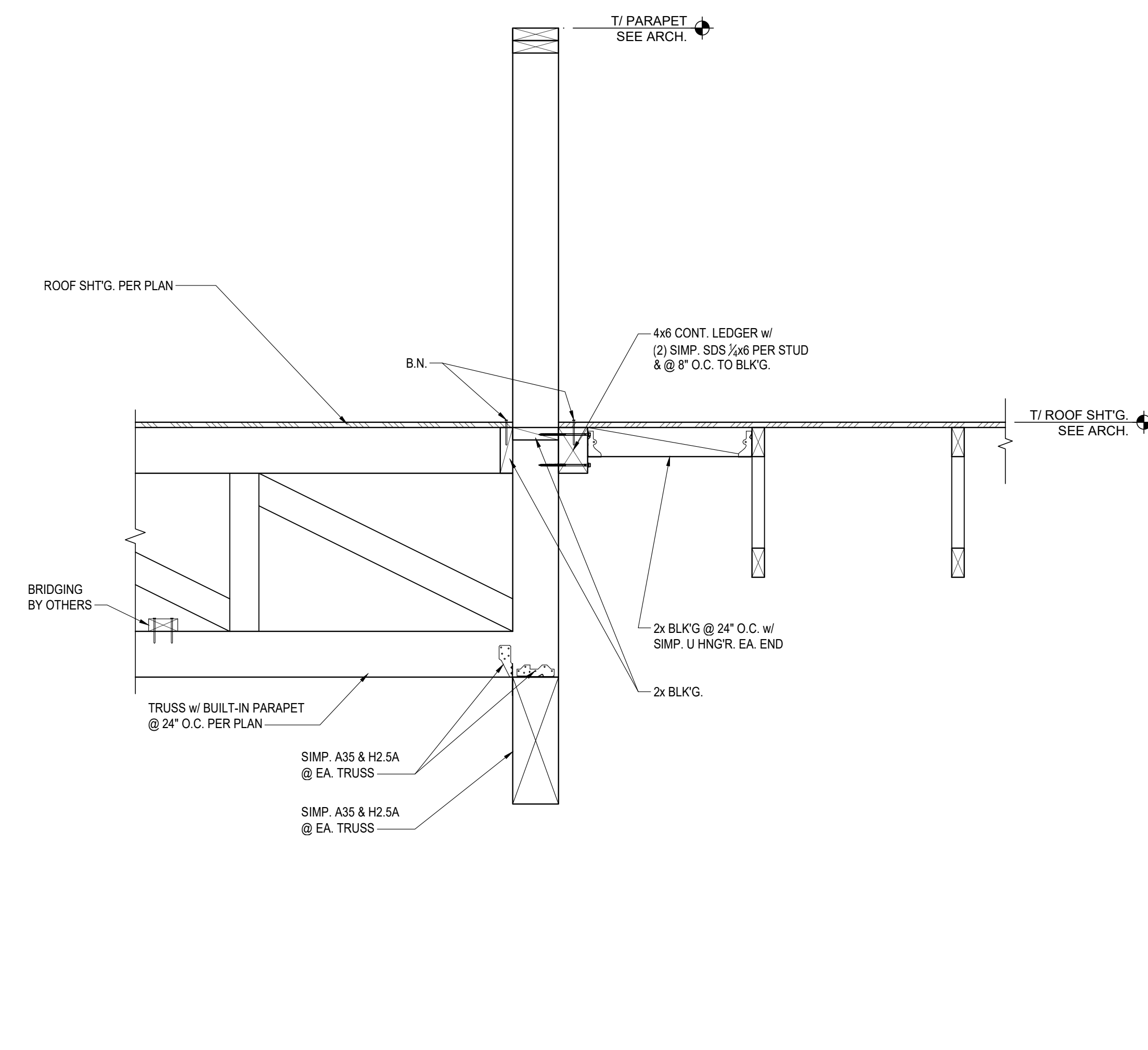
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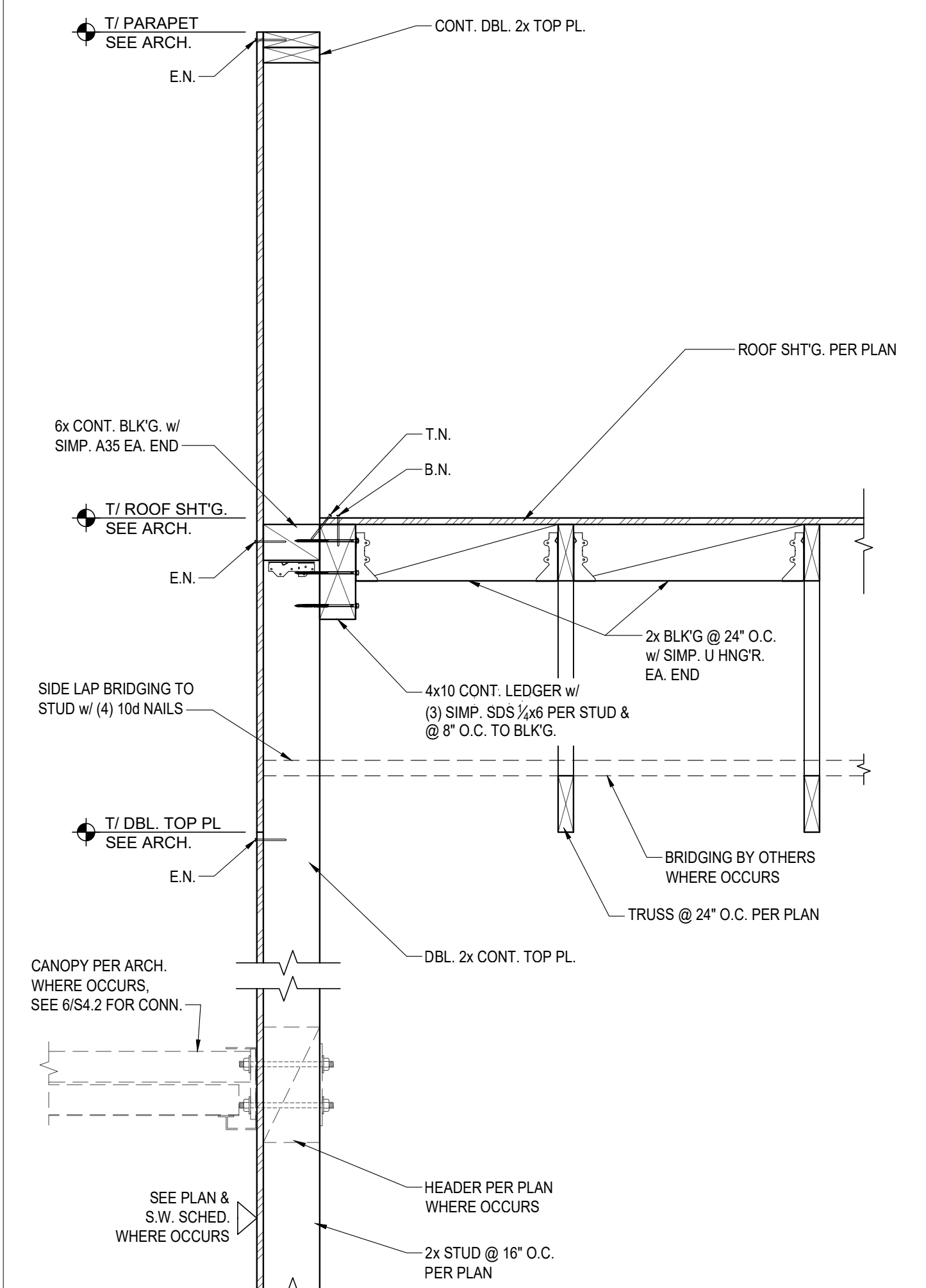
**1** ROOF TRUSS PERPENDICULAR TO EXTERIOR WALL  
SCALE: 1" = 1'-0"



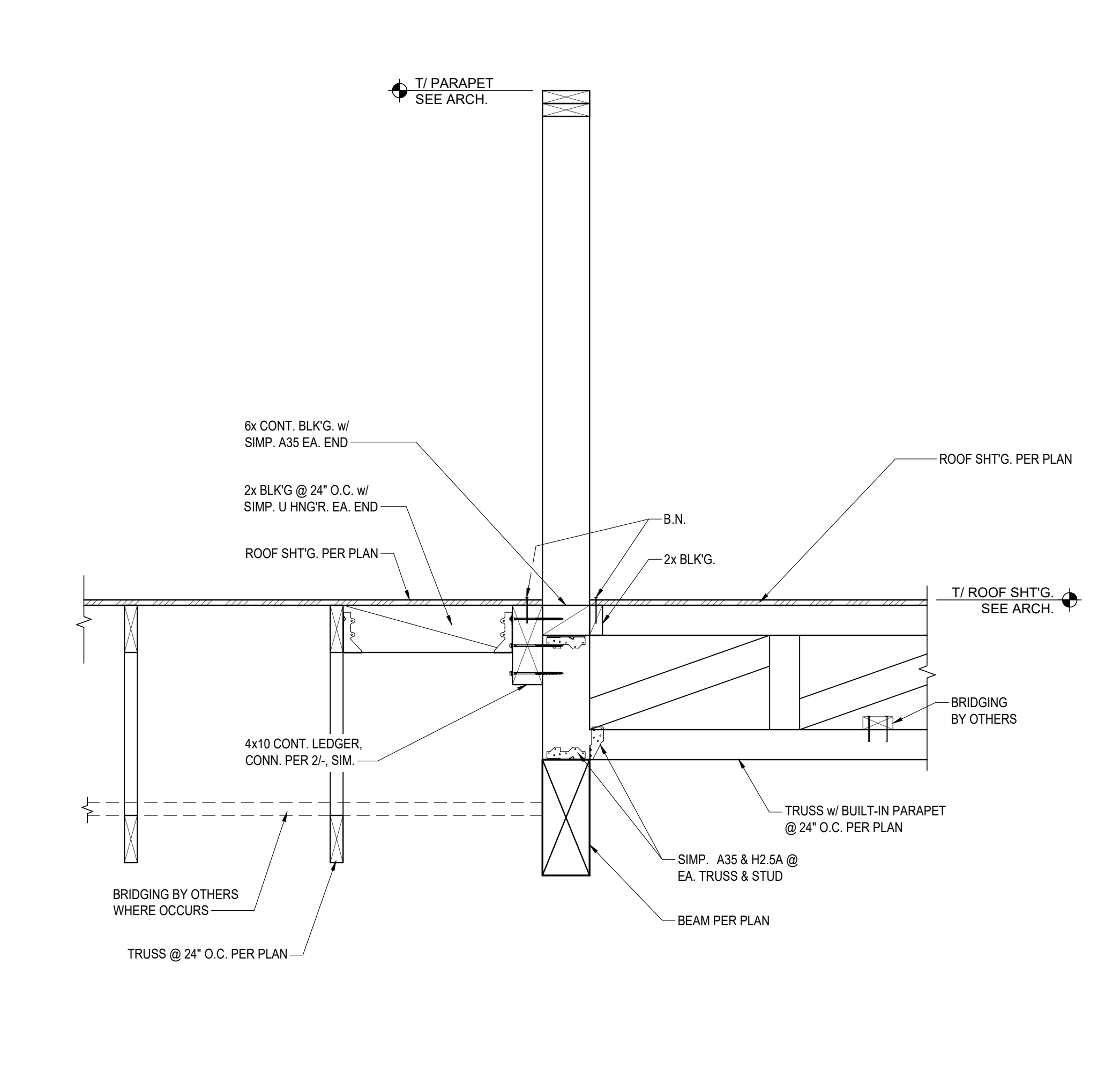
**3** ROOF TRUSS CONNECTION AT DEPRESSED ROOF  
SCALE: 1" = 1'-0"



**5** ROOF TRUSS CONNECTION AT TOWER  
SCALE: 1" = 1'-0"



**2** ROOF TRUSS PARALLEL TO EXTERIOR WALL  
SCALE: 1" = 1'-0"



**4** ROOF TRUSS CONNECTION AT TOWER  
SCALE: 1" = 1'-0"

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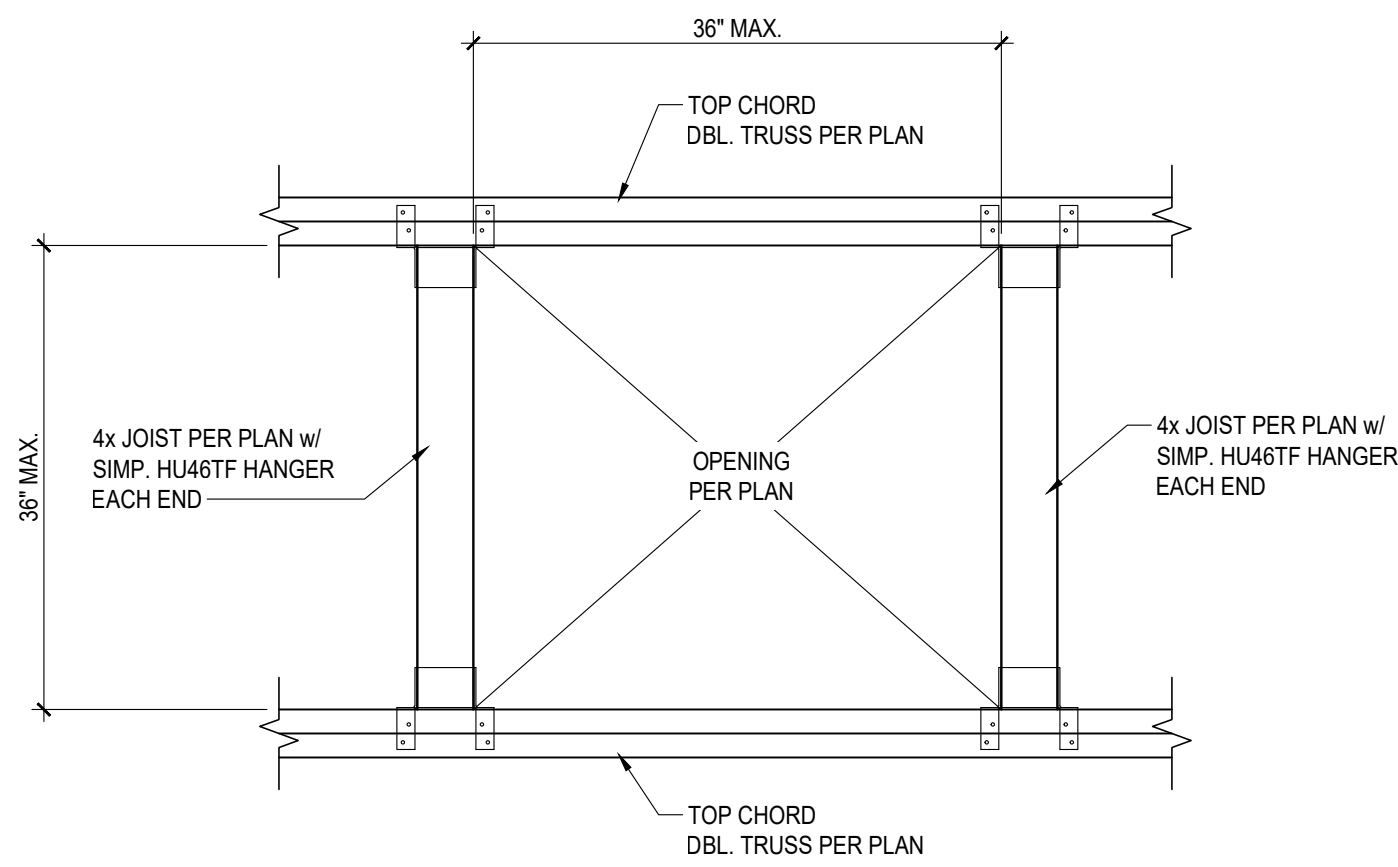
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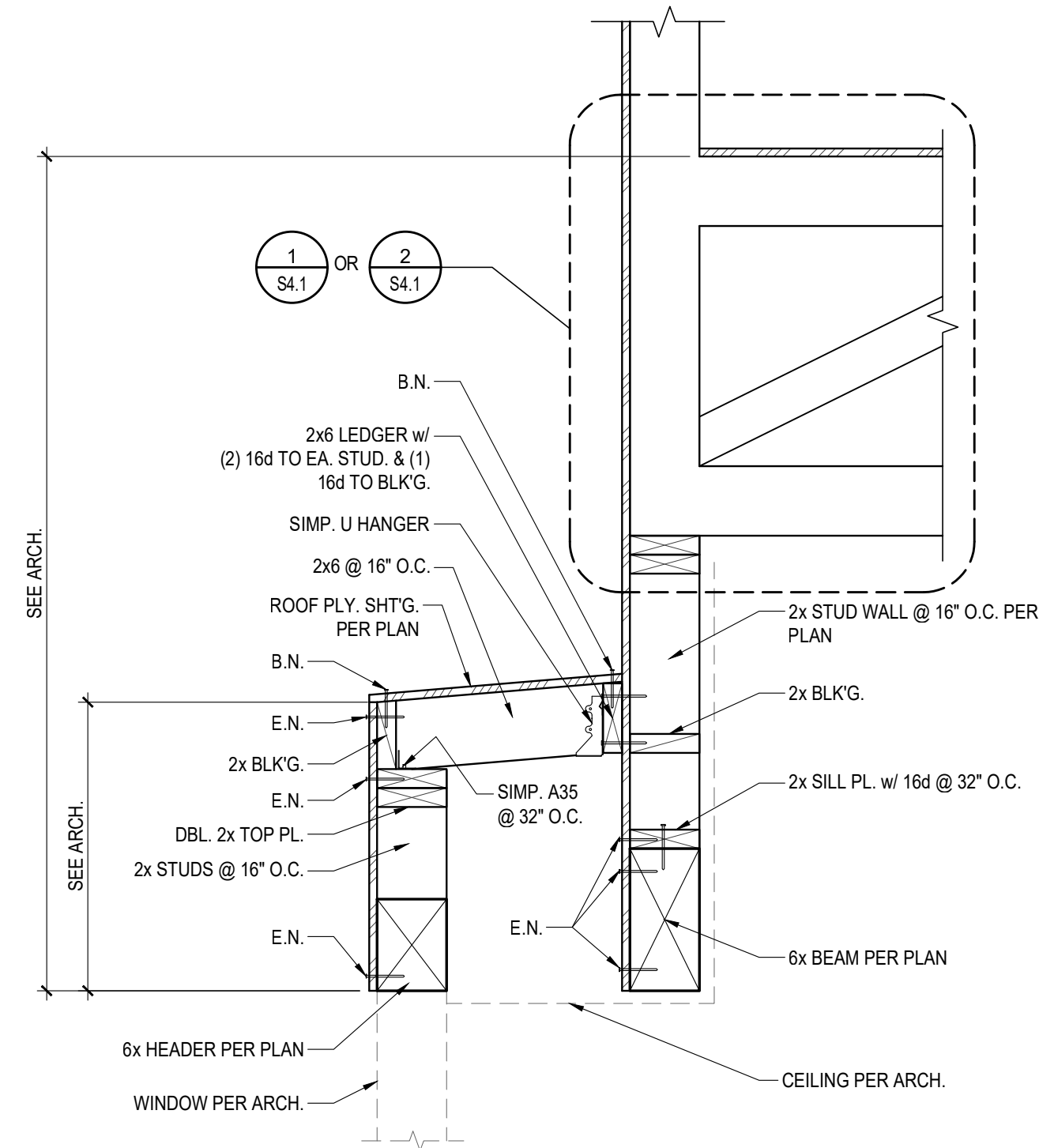
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**S4.1**

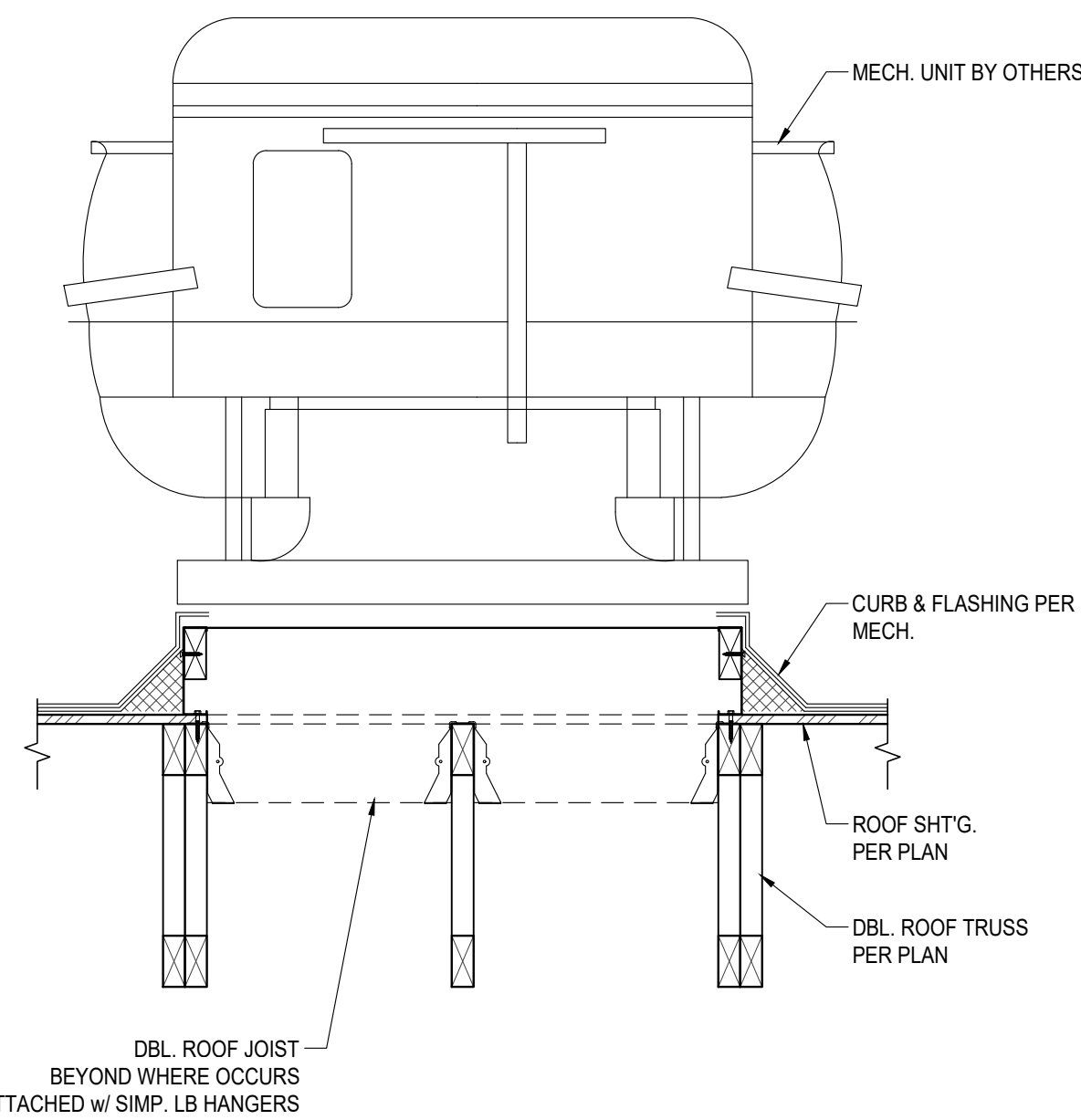
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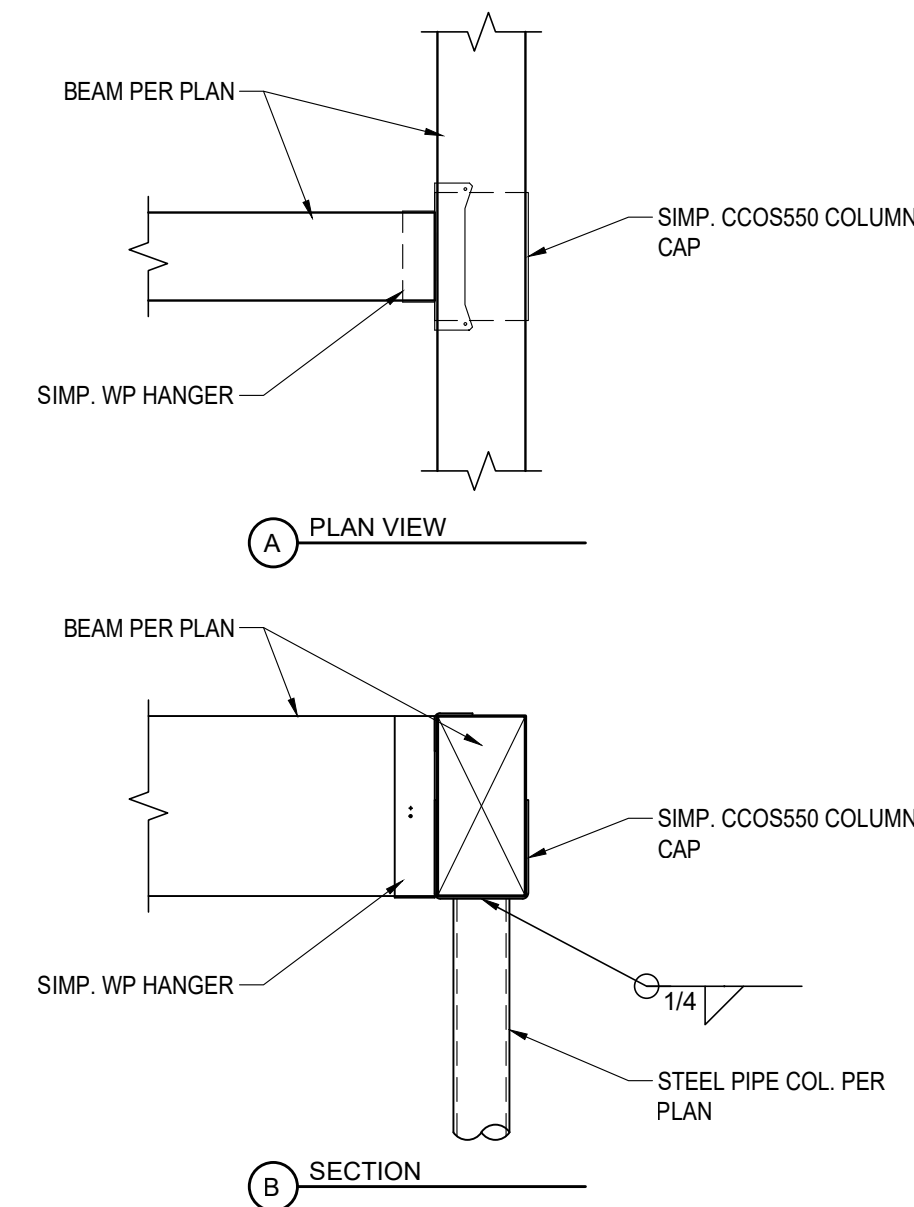
1 ROOF OPENING DETAIL - PLAN VIEW  
SCALE: 1" = 1'-0"



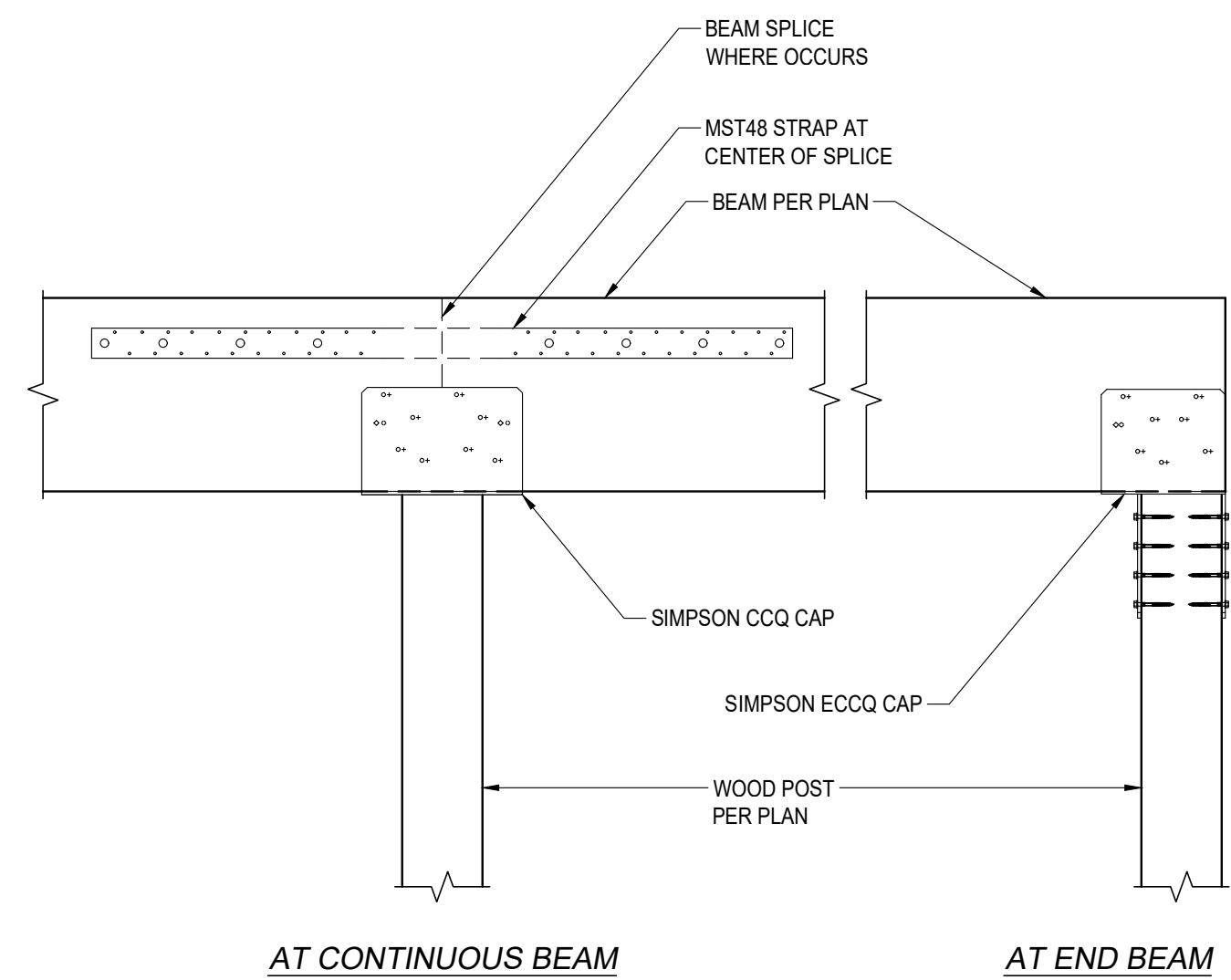
4 FRAMING CONNECTION AT POP-OUT WALL  
SCALE: 1" = 1'-0"



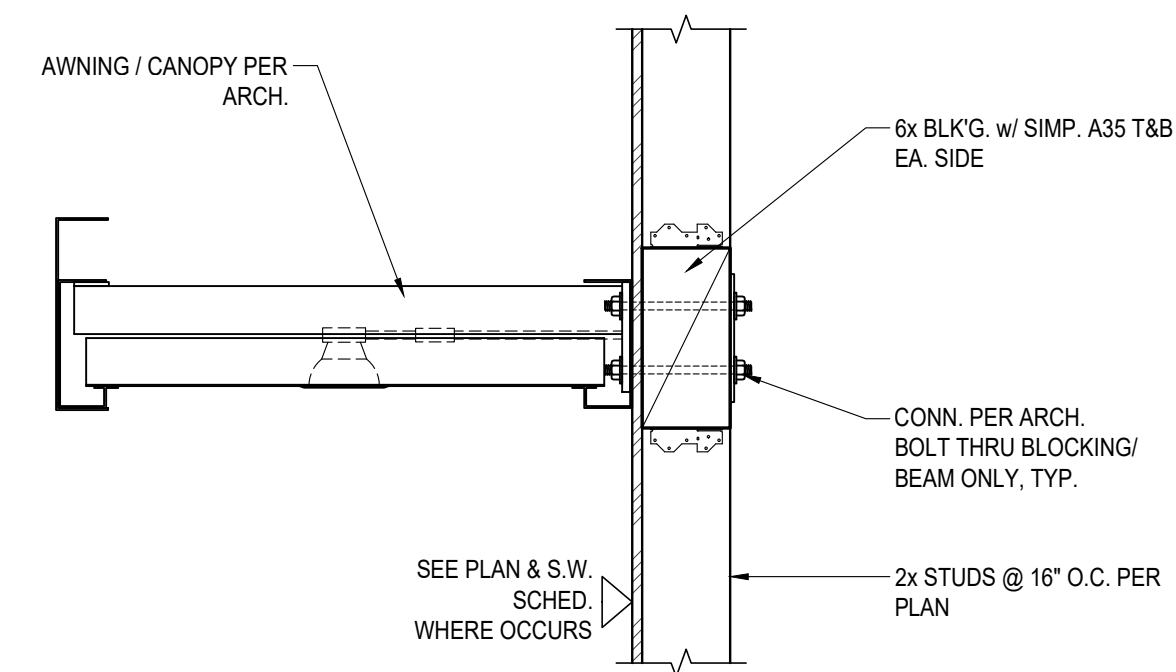
2 ROOF OPENING DETAIL - PLAN VIEW  
SCALE: 1" = 1'-0"



5 WOOD BEAM TO STEEL PIPE COLUMN  
SCALE: 1" = 1'-0"



3 WOOD POST TO WOOD BEAM CONNECTION  
SCALE: N.T.S.



6 CANOPY CONNECTION  
SCALE: 1" = 1'-0"

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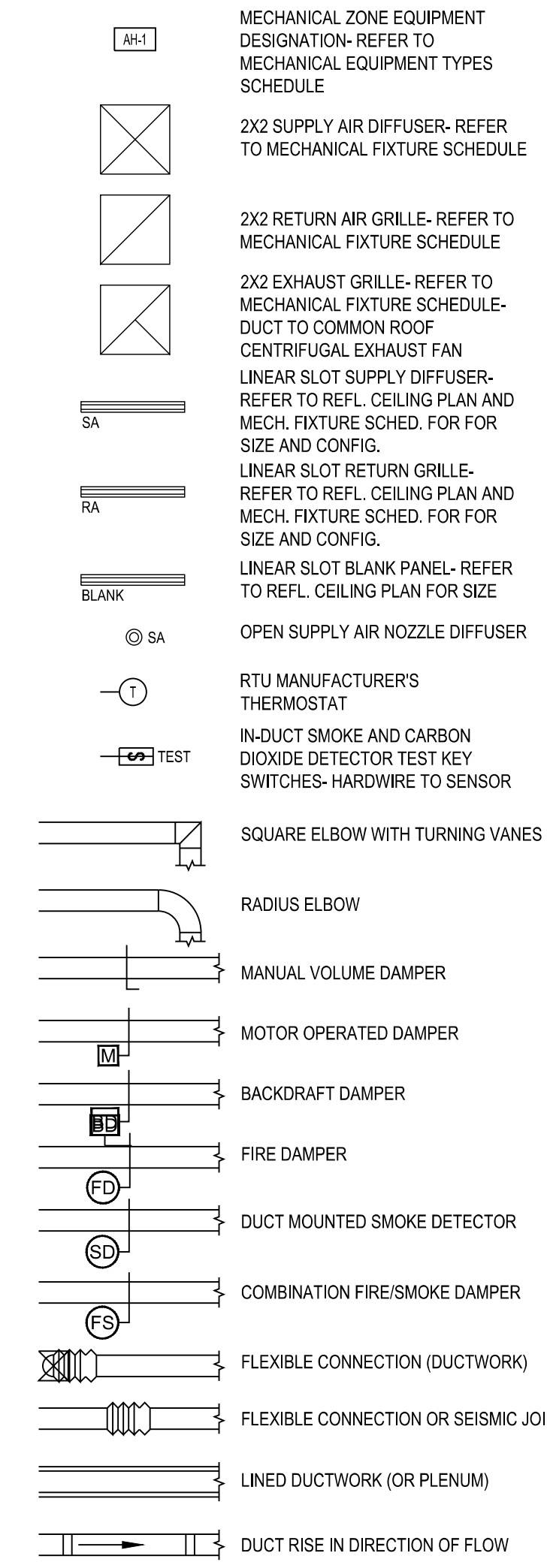
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STRUCTURAL DETAILS

02/21/2022 SHEET

S4.2

**MECHANICAL SYMBOLS**



**MECHANICAL GENERAL NOTES**

- REFER TO ARCHITECTURAL REFLECTED CEILING PLANS ON SHEETS A1.2 FOR POSITIONS, SIZES AND TYPES OF MECHANICAL FIXTURES (SA / RA / TE).
- 24-HOUR VESTIBULES REQUIRE DUCTED RETURNS TO PREVENT AIR DRAW FROM ADJACENT SPACES WITHOUT SEPARATION ABOVE THE CEILING.
- ALL MECHANICAL EQUIPMENT MUST BE ISOLATED FROM THE BUILDING STRUCTURE BY VIBRATION-DAMPENING MOUNTING AND DUCT ACCESSORIES. RIGID EQUIPMENT MOUNTS AND DUCT CONNECTIONS TO EQUIPMENT ARE NOT PERMITTED.
- RTUS SPLIT FORCED-AIR SYSTEMS (INCLUDING "MINI-SPLITS"), AND ALL SUPPLEMENTAL HEATING SYSTEMS ARE TO BE CONTROLLED AND MONITORED BY THE BUILDING MANAGEMENT SYSTEM (BMS) FOR CONSTANT VOLUME (CV) SYSTEMS WITHOUT HUMIDITY CONTROL ONLY. REFER TO SHEET E5. MECHANICAL INSTALLER SHALL COORDINATE WITH THE PROJECT ELECTRICIAN FOR CONTROL AND MONITORING DEVICE PROVISION AND INSTALLATION FROM THE COMMON BMS VENDOR.
- CONTROL AND SENSOR DEVICES ARE NOT TO BE LOCATED ON ANY WALLS OR CEILINGS DESIGNATED FOR AN ACCENT FINISH. REFER TO THE FLOOR PLANS.
- POSITION CONTROL DEVICES AS NEAR THE ENDS OF WALLS AS POSSIBLE, SO AS NOT TO INTERFERE WITH MARKETING MATERIAL POSITIONING.
- ALL THERMOSTATS AND TEST SWITCHES FOR REMOTE SMOKE AND CARBON DIOXIDE DETECTORS SHALL BE POSITIONED IN EMPLOYEE-ONLY AREAS, OUT OF CUSTOMER VIEW.
- INSTALL DAINTREE WTS10. CONTRACTOR TO PROVIDE MITSUBISHI PAC-US4CN-1 ADAPTER.
- REFER TO ELECTRICAL DRAWINGS FOR HARDWIRED FANLIGHT CONTROL AND TIMERS.
- THERMOSTAT ADAPTERS MAY BE REQUIRED AT SPLIT SYSTEMS WITH DAINTREE WTS10 THERMOSTATS. VERIFY WITH EQUIPMENT MANUFACTURER.
- WIRE HUMIDITY SENSORS TO DAINTREE WSA10 ADAPTERS.
- ROUTE RTU CONDENSATE TO NEAREST ROOF DRAIN VIA PVC PIPING.
- INTERIOR CONDENSATE SHALL BE PERMITTED TO DRAIN TO THE JANITOR SINK OR EXTERIOR. WHERE DRAINED TO THE EXTERIOR, WALL PENETRATION SHALL BE VIA A COPPER OR GALVANIZED STEEL PIPE WITH STREET ELBOW AND SPLASH BLOCK. PLASTIC PIPES ARE NOT PERMITTED THROUGH THE EXTERIOR WALL.
- SPECIFICATION SECTION 230593 EXPLICITLY REQUIRES A TEST AND BALANCE REPORT WHICH MUST BE SUBMITTED TO THE CONSTRUCTION TEAM AND ENGINEER OF RECORD. THE PROJECT WILL NOT BE ACCEPTED AS COMPLETE BY THE OWNER WITHOUT THE EOR'S REVIEW AND ACCEPTANCE OF THAT REPORT.
- THE OWNER'S FACILITY MANAGER MUST BE INVITED TO MECHANICAL AND ELECTRICAL SUBCONTRACTOR KICKOFF MEETINGS, AND PERIODIC MEETINGS AND WALK-THROUGHS INVOLVING MECHANICAL AND ELECTRICAL WORK.
- DUCTED SPLIT SYSTEMS SHALL BE CONTROLLED BY THE DAINTREE SYSTEM (WGA, CT, PRESSURE SENSOR, WSA, DUCT TEMP SENSOR, REMOTE TEMP SENSOR AND THERMOSTAT).
- ALL THERMOSTATS FOR THE MINI-SPLIT SYSTEMS SHALL BE HARD WIRED. MINI-SPLITS SHALL HAVE 24V INTERFACE BY CONTRACTOR FROM MANUFACTURER FOR DAINTREE WIRELESS THERMOSTATS.
- ECONOMIZER UNIT DAINTREE COMPATIBILITY: UNITS CONNECTED TO AN ECONOMIZER THAT IS NOT INTEGRAL TO THE RTU SHALL HAVE MANUFACTURER'S CONTROLS AND CONTROL MODULE FOR MODS. ECONOMIZERS FULLY INTEGRATED WITH RTUS CAN BE CONTROLLED BY THE DAINTREE SYSTEM.
- DAINTREE DEVICE DIP SWITCH SETTINGS: IT IS THE RESPONSIBILITY OF THE MECHANICAL CONTRACTOR TO VERIFY EXACT DIP SWITCH SETTING PER MANUFACTURER'S CUT SHEET.

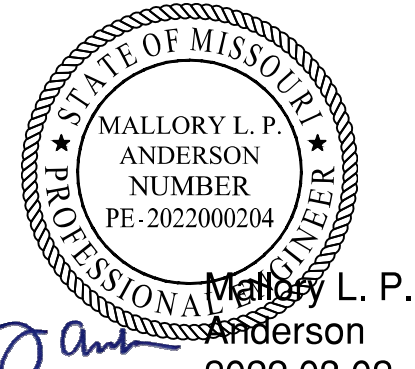
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PREPARED BY:

SIGNED BY:



Mallory L. P. Anderson  
2022.03.02  
16:22:47-05'00'

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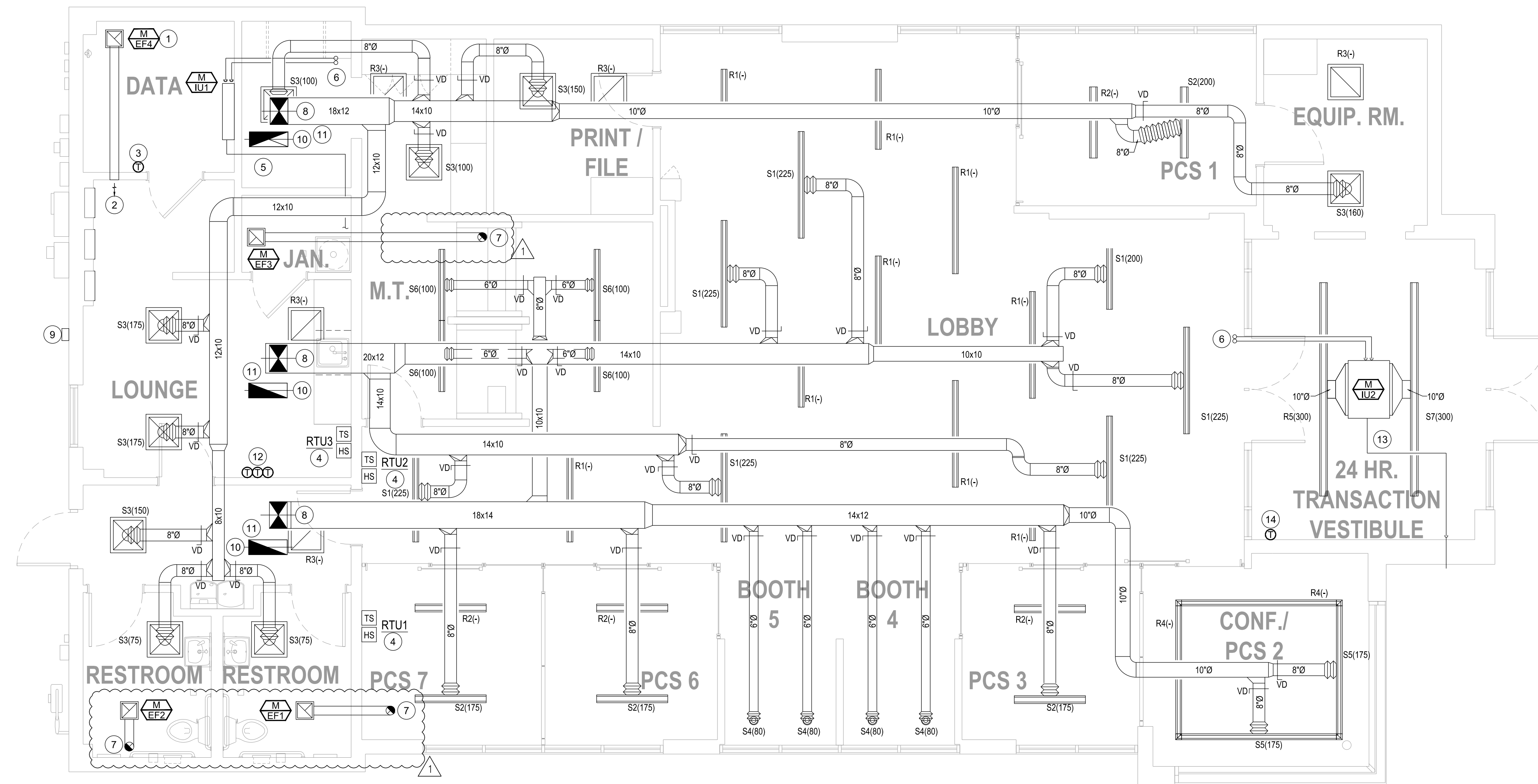
PRYOR & LOWENSTEIN  
PROTOTYPE VERSION 20.4

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MECHANICAL GENERAL NOTES AND LEGEND

02/04/2022  
SHEET

**M-0**



1  
M1 MECHANICAL - FLOOR PLAN  
1/4" = 1'-0"

- # SHEET NOTES
- DATA ROOM EXHAUST FAN EF-4 IS CONTROLLED BY NON-DANTREE HARDWIRED REVERSE THERMOSTAT PROVIDED BY ELECTRICAL CONTRACTOR
  - TERMINATE 6"X6" EXHAUST DUCT ABOVE CEILING INTO PLENUM.
  - PROVIDE BMS WIRELESS THERMOSTAT FOR IU1/OU1.
  - PROVIDE REMOTE TEMPERATURE AND HUMIDITY SENSORS, INSTALL PER MANUFACTURER'S RECOMMENDATIONS.
  - CONDENSATE ROUTED TO MOP SINK, FROM CONDENSATE PUMP.
  - REFRIGERANT PIPING ROUTED THROUGH PIPING PORTAL TO CONDENSING UNIT ON ROOF. REFER TO SHEET M2 FOR CONTINUATION.
  - TERMINATE EXHAUST DUCT THROUGH ROOF WITH GOOSENECK.
  - PROVIDE SUPPLY DUCT PROBE TEMPERATURE SENSOR FOR RTU.
  - PROVIDE HARDWIRED EXTERIOR TEMPERATURE SENSOR WITH DANTREE WGA100 AND WSA10 MOUNTED IN THE INTERIOR OF BUILDING FOR MONITORING.
  - PROVIDE RTU WITH DUCT SMOKE DETECTOR.
  - 18"X12" SUPPLY AIR DUCT AND 26"X10" RETURN AIR DUCT ROUTED TO NEW ROOFTOP UNIT ABOVE. REFER TO SHEET M-2 FOR RTU LOCATION.
  - LOCATION OF BMS WIRELESS THERMOSTATS, DANTREE NETWORKS #WTS10, FOR NEW RTU'S. COORDINATE EXACT LOCATION WITH EQUIPMENT IN THIS ROOM.
  - CONDENSATE ROUTED OUTSIDE. TERMINATE 18" A.F.S.
  - PROVIDE BMS WIRELESS THERMOSTAT FOR IU2/OU2.

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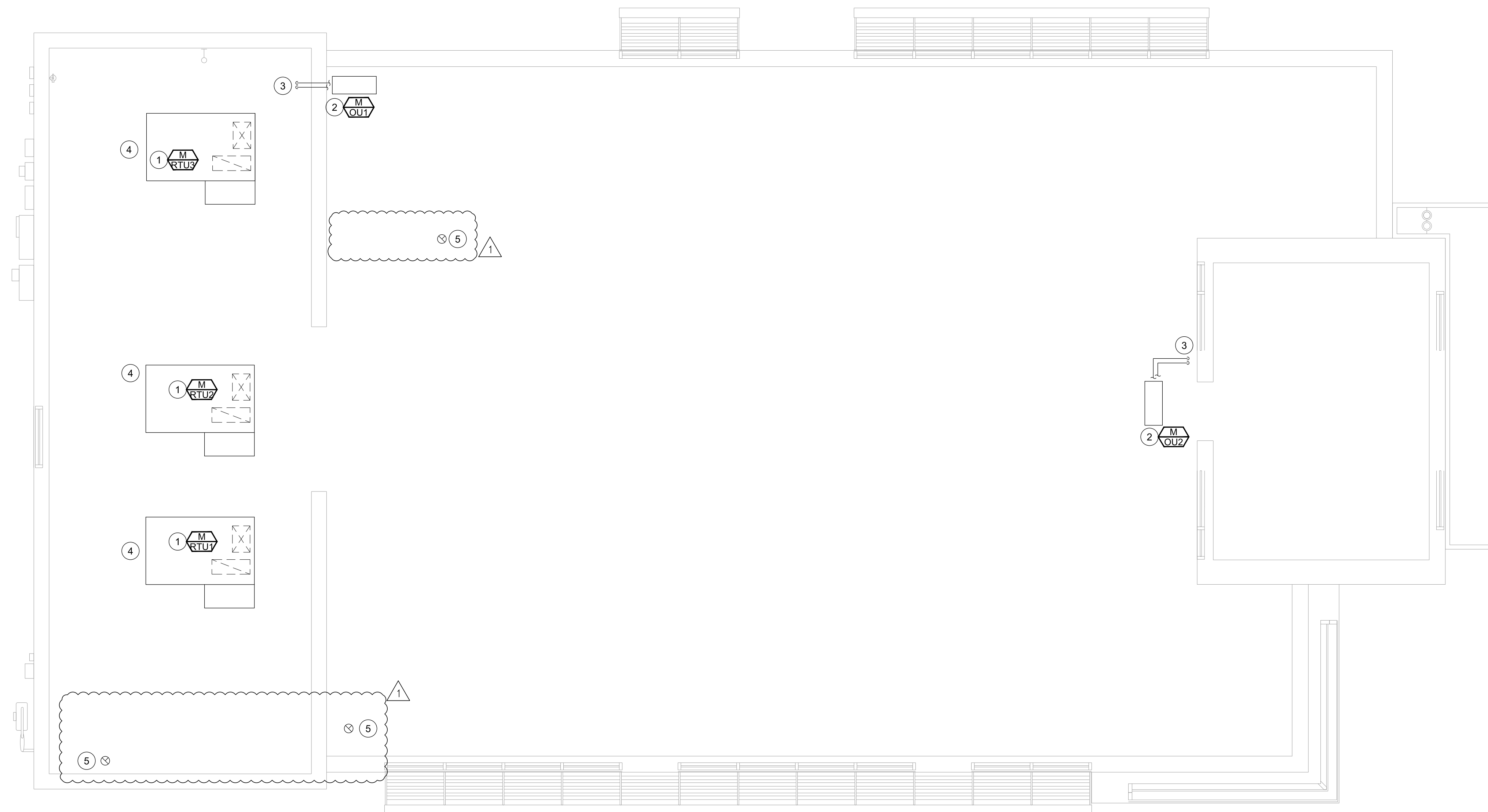
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MECHANICAL FLOOR PLAN

02/04/2022  
SHEET

**M-1**



1  
M2  
MECHANICAL - ROOF PLAN  
1/4"=1'-0"

- # SHEET NOTES
1. ROOFTOP UNIT LOCATED ON 14" ROOF CURB. REFER TO DETAIL ON SHEET M-4
  2. NEW OUTDOOR UNIT MOUNTED ON ROOF CURB RAIL SYSTEM. REFER TO DETAIL ON SHEET M-4.
  3. 1/2" SUCTION LINE AND 1/4" LIQUID LINE REFRIGERANT PIPING ROUTED FROM OUTDOOR UNIT TO INDOOR UNIT ON FIRST FLOOR THROUGH PIPING PORTAL. REFER TO DETAIL ON SHEET M-4.
  4. OUTSIDE AIR INTAKES MUST MAINTAIN A MINIMUM 10'-0" FROM ALL EXHAUST, GAS FLUES, ETC.
  5. EXHAUST MUST MAINTAIN A MINIMUM DISTANCE OF 10'-0" FROM OUTSIDE AIR INTAKES. COORDINATE EXHAUST LOCATION WITH MECHANICAL EQUIPMENT LOCATIONS.

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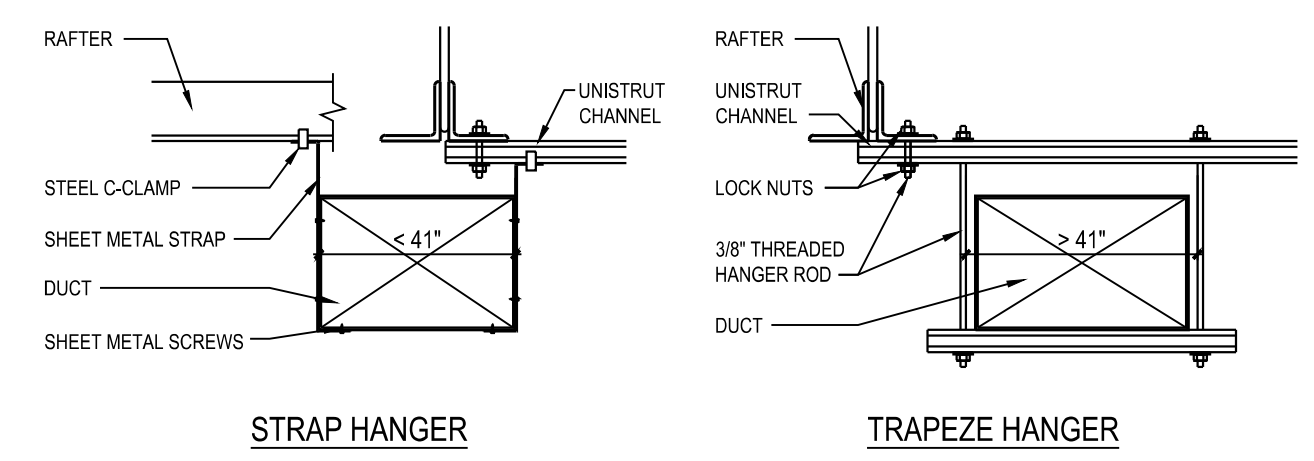
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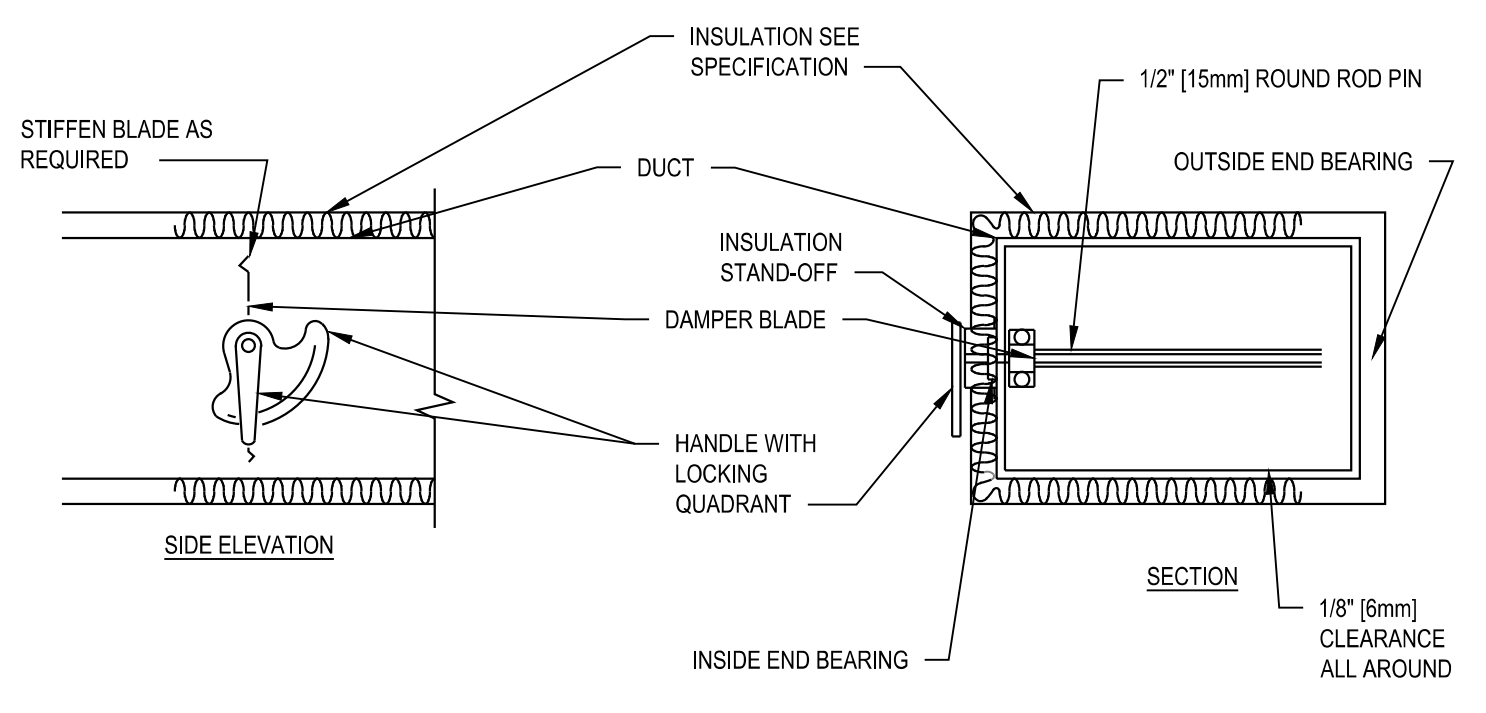
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M-2

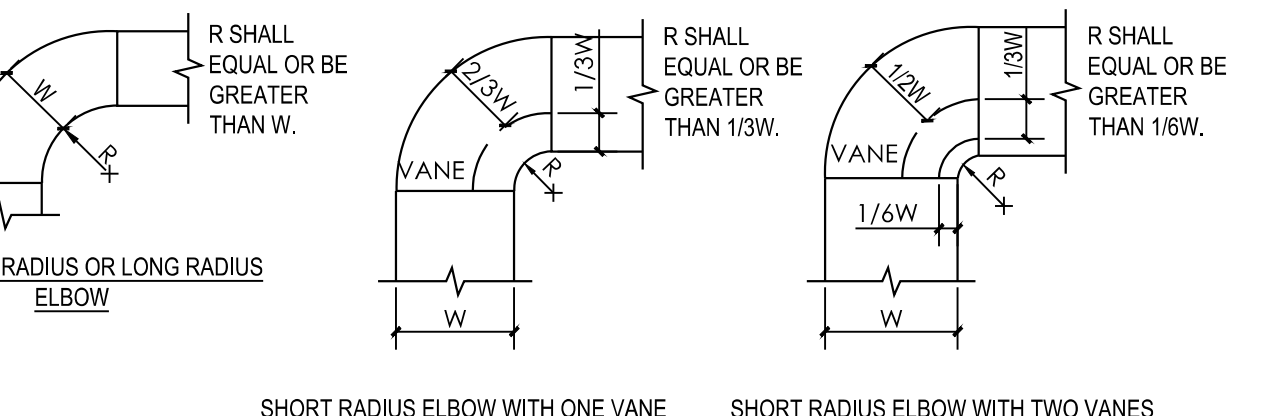




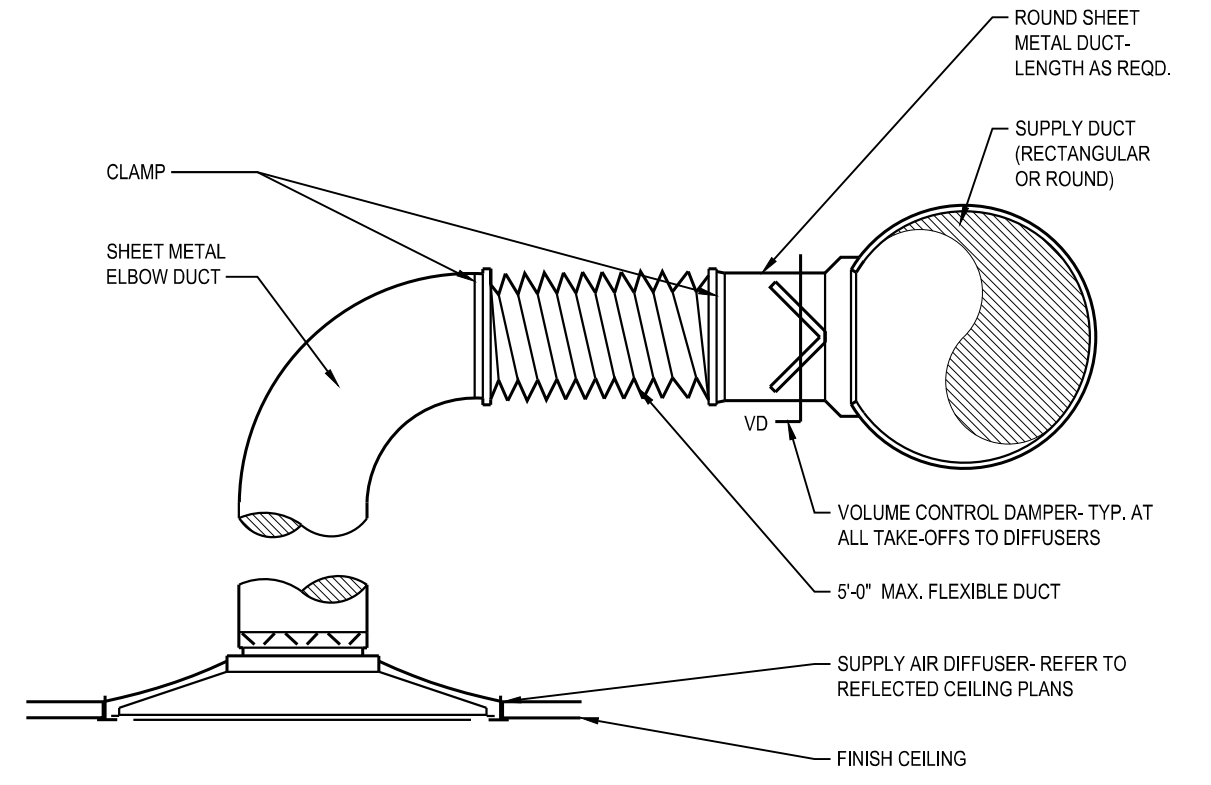
**8** SUSPENDED DUCT SUPPORT  
M4 N.T.S.



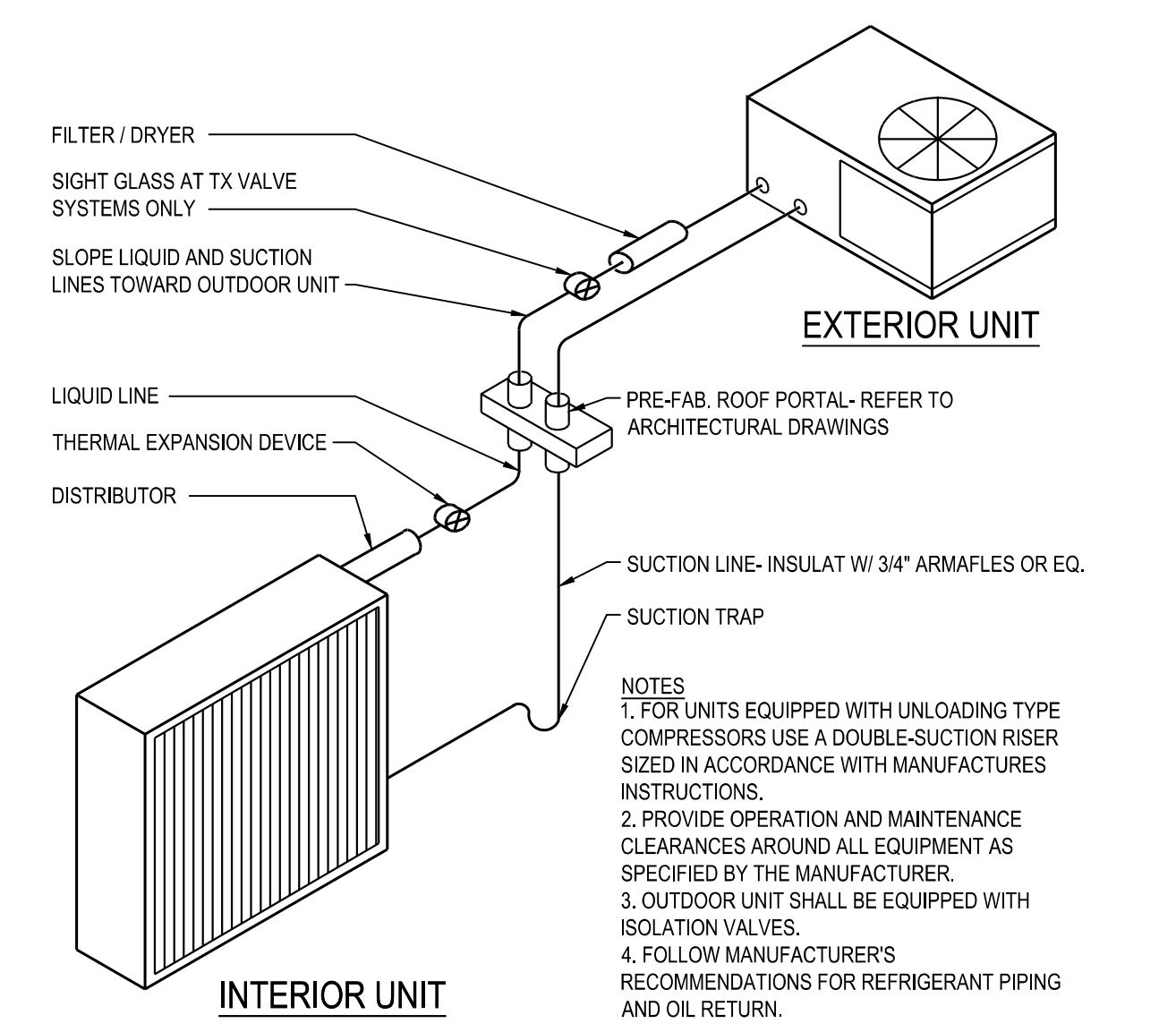
**7** VOLUME DAMPER  
M4 N.T.S.



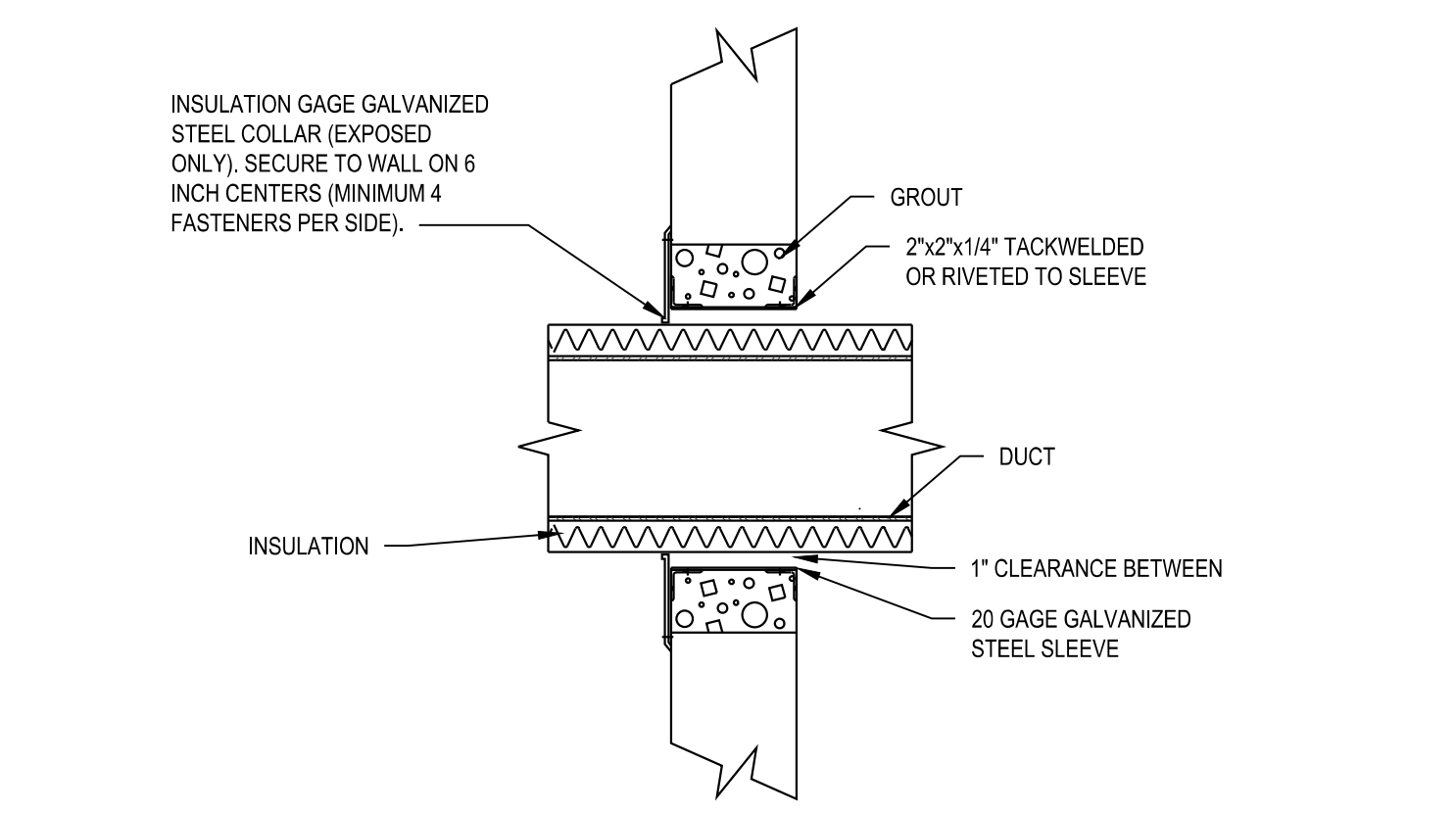
**6** DUCTWORK RADIUS ELBOWS  
M4 N.T.S.



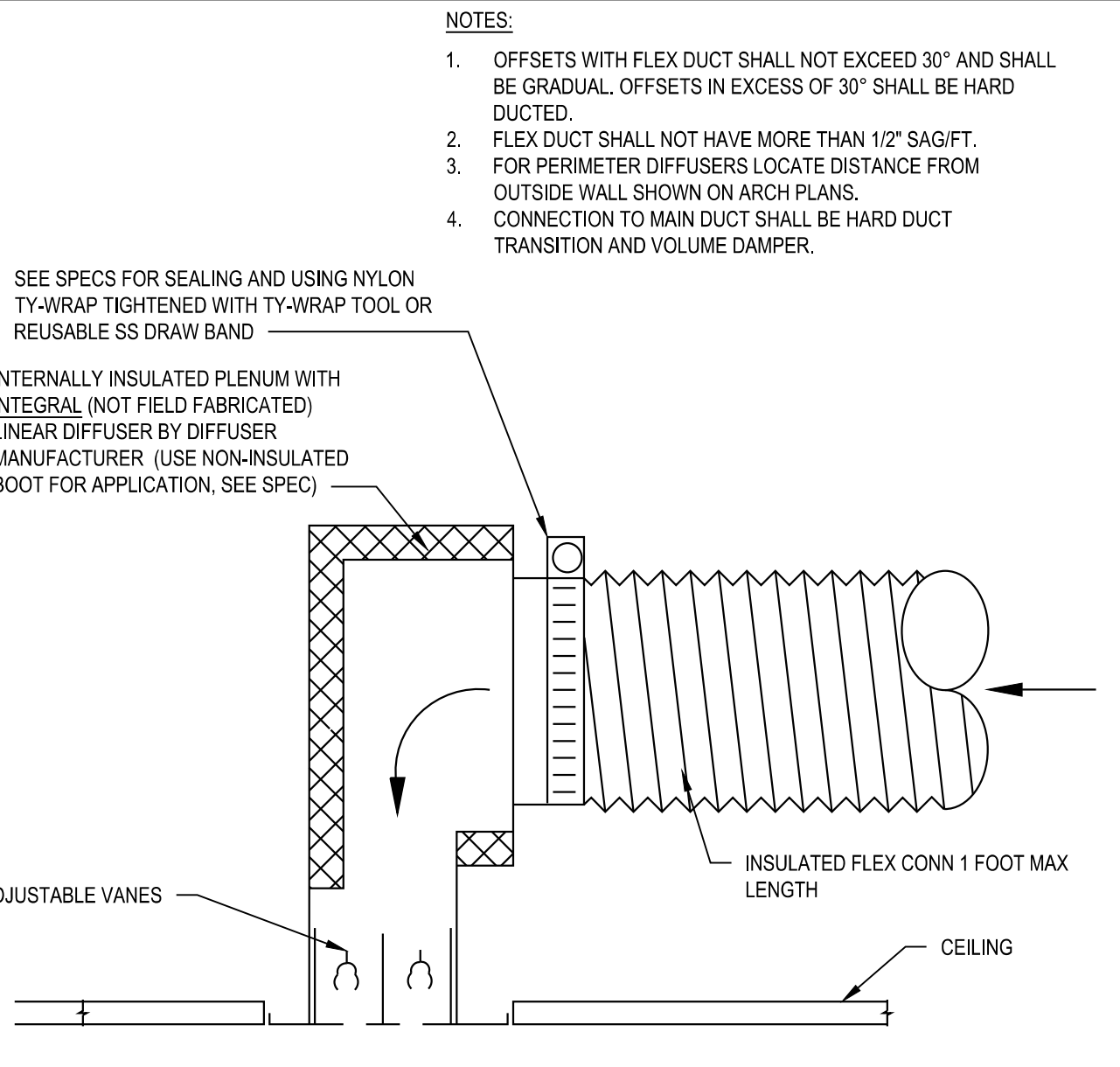
**5** SUPPLY AIR TERMINAL  
M4 N.T.S.



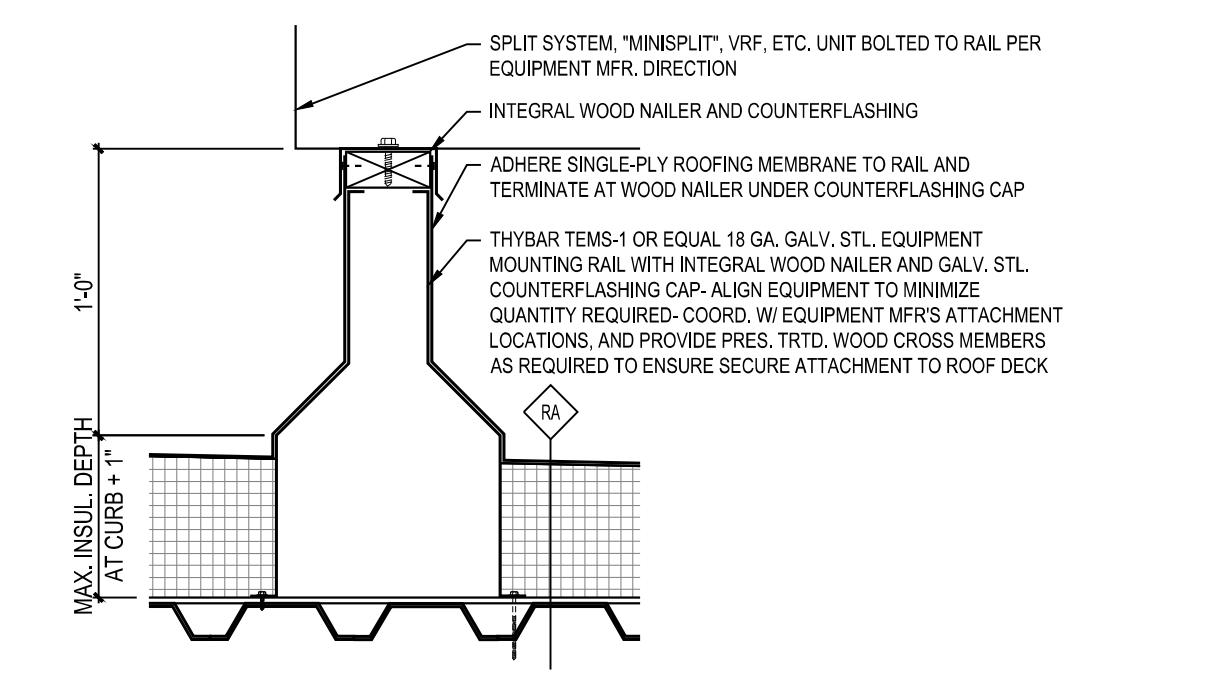
**4** REFRIGERANT PIPING  
M4 N.T.S.



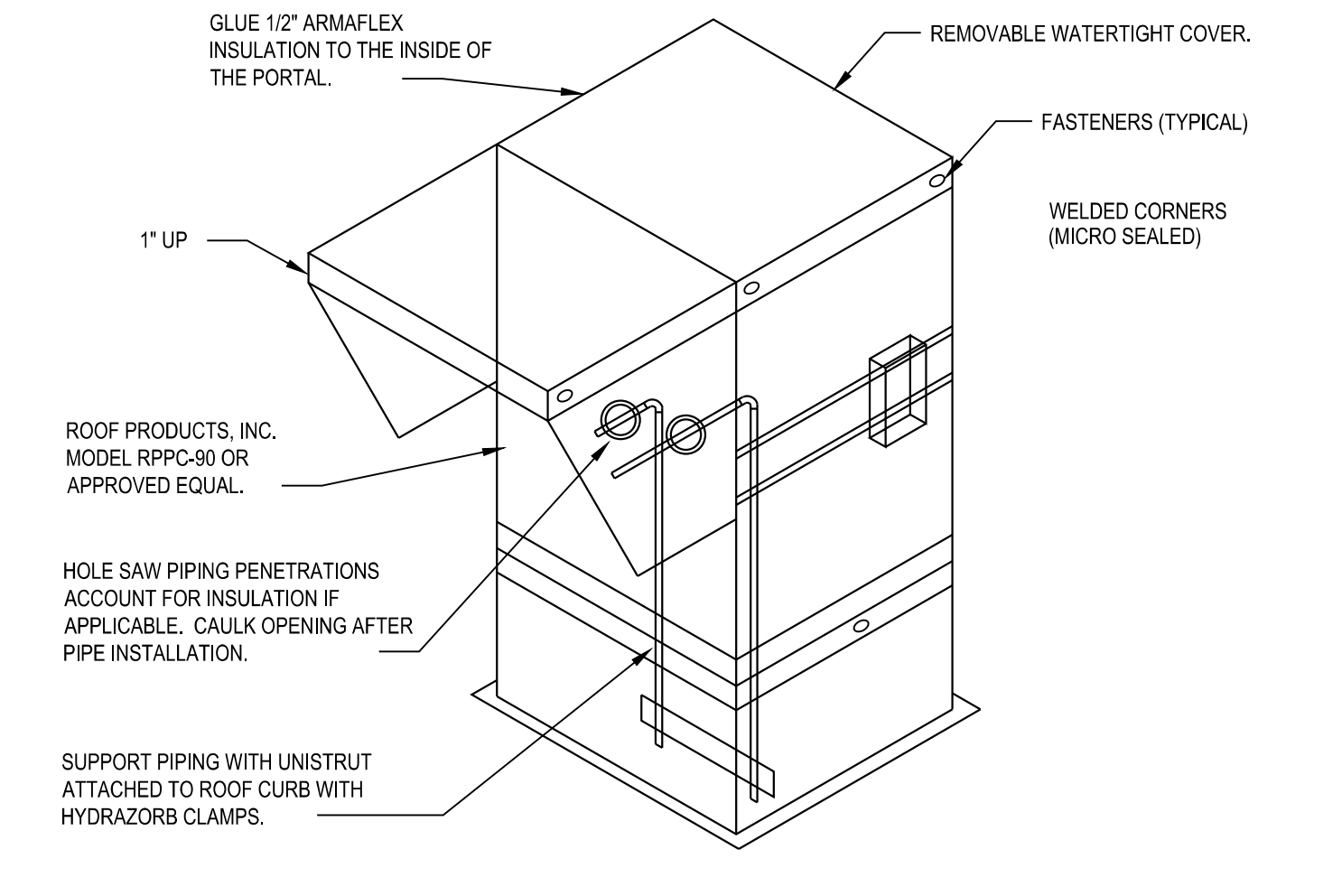
**3** DUCT PENETRATION THROUGH WALL  
M4 N.T.S.



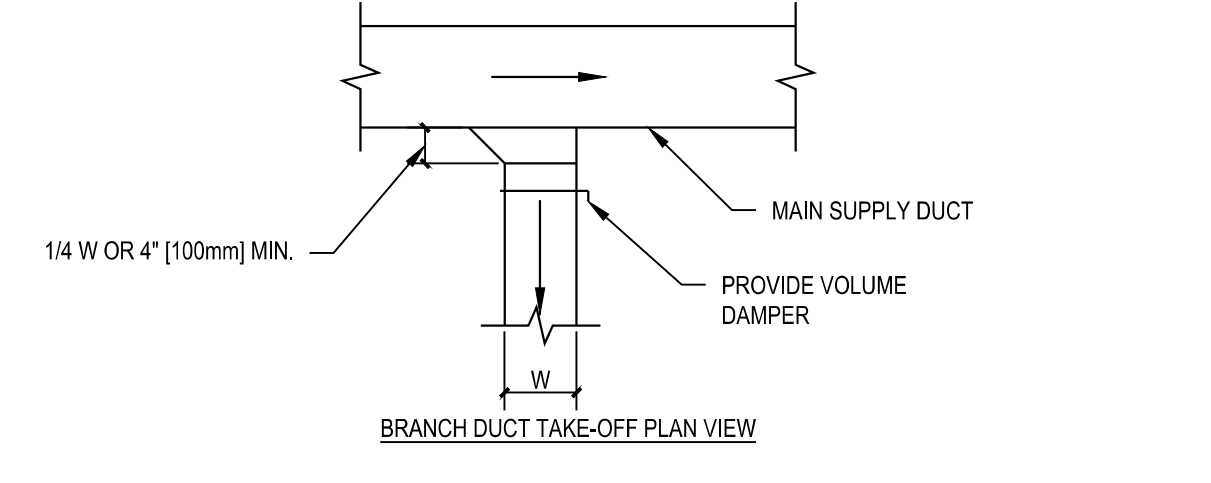
**2** LINEAR DIFFUSER CONNECTION  
M4 N.T.S.



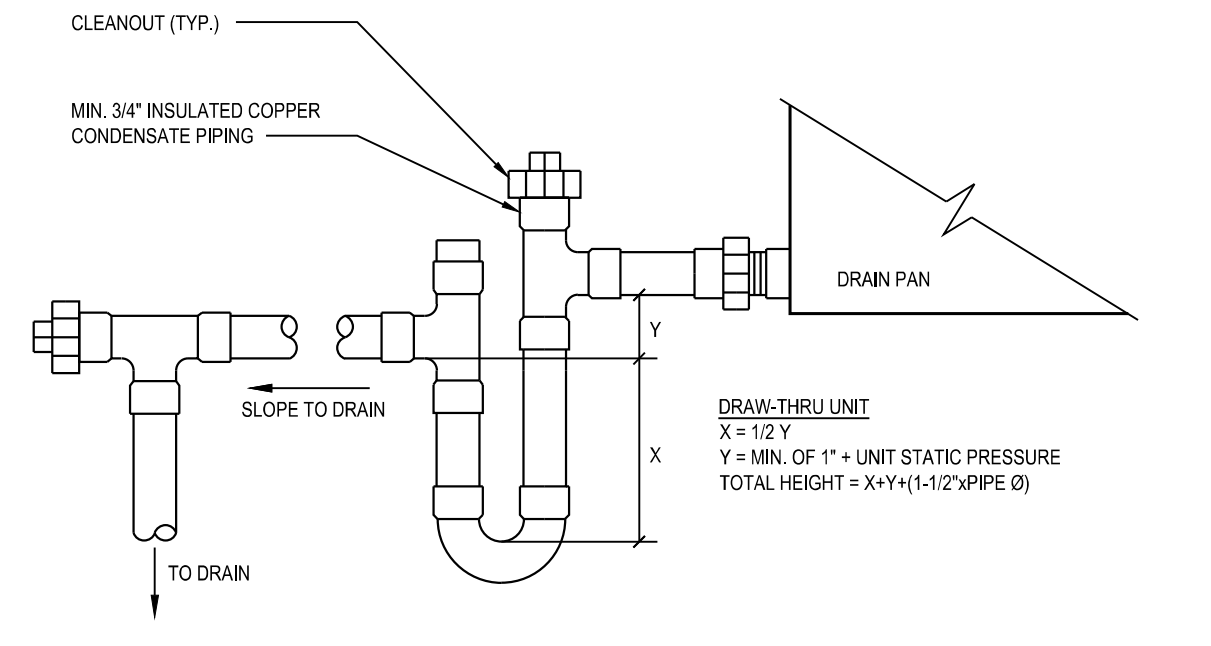
**1** ROOFTOP EQUIPMENT CURB RAIL  
M4 N.T.S.



**11** ROOF PENETRATION PIPING DETAIL  
M4 N.T.S.



**10** SUPPLY DUCTWORK TAKE-OFF  
M4 N.T.S.



**9** CONDENSATE DRAIN TRAP  
M4 N.T.S.

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LEE'S SUMMIT, MO 64081

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**PRYOR & LOWENSTEIN**  
PROTOTYPE VERSION 20.4

CONTENTS  
MECHANICAL DETAILS  
02/04/2022  
SHEET  
**M-4**



**PLUMBING SYMBOLS LEGEND**

|               |   |
|---------------|---|
| ---           | EXISTING SANITARY BELOW SLAB                              |
| ---           | EXISTING SANITARY ABOVE SLAB                              |
| ---           | SANITARY BELOW SLAB                                       |
| ---           | SANITARY ABOVE SLAB                                       |
| ---           | EXISTING VENT   |
| ---           | VENT  |
| ---           | COLD SUPPLY   |
| ---           | HOT SUPPLY  |
| ○             | FIXTURE VALVE AND NIPPLE WITH HAMMER ARRESTOR             |
| ⬡<br>FF<br>WC | SCHEDULED PLUMBING FIXTURE                                |
| ⬡<br>EX<br>WC | EXISTING PLUMBING FIXTURE                                 |
| ⬡<br>XR<br>WC | EXISTING TO BE RELOCATED PLUMBING FIXTURE                 |
| ○             | ROUGH CLEAN-OUT CONCEALED BEHIND WALL OR CEILING FINISHES |
| ○             | BALL VALVE BRANCH SHUT-OFF                                |
| ⌞             | CHECK VALVE   |
| ⊗             | P-TRAP  |
| ⊗             | FLOOR DRAIN   |

**PLUMBING GENERAL NOTES**

- CONTRACTOR SHALL PROVIDE COMPLETE PLUMBING SYSTEMS AS DETAILED ON THESE DRAWINGS. WORK CONSISTS OF FURNISHING ALL MATERIALS, EQUIPMENT, AND SERVICES REQUIRED FOR COMPLETE SYSTEMS. INCLUDE ANY INCIDENTAL APPARATUS, APPLIANCES, MATERIAL LABOR AND SERVICES NECESSARY TO MAKE NEW WORK COMPLETE IN ALL RESPECTS AND FULLY READY FOR OPERATION.
- VERIFY THE EXACT LOCATION OF EXISTING SANITARY SEWERS AND WATER MAINS FROM THE ACTUAL JOB SITE PRIOR TO SUBMITTING BID. SUBMISSION OF YOUR PROPOSAL SHALL BE CONSTRUED AS INDICATING SUCH KNOWLEDGE. NO ADDITIONAL PAYMENT WILL BE MADE ON CLAIMS THAT ARISE FROM THE CONTRACTOR'S FAILURE TO COMPLY WITH THIS REQUIREMENT.
- MAKE SUCH OFFSETS AND DEVIATIONS FROM WORK SHOWN ON THE DRAWINGS, AS MAY BE NECESSARY TO FIT THE ACTUAL SPACE CONDITIONS
- WHERE VALVES OCCUR ABOVE DRYWALL OR PLASTER OR ARE CONCEALED BEHIND WALLS, THIS CONTRACTOR SHALL FURNISH AND INSTALL ACCESS PANELS. COORDINATE COLOR AND STYLE WITH ENGINEER/ARCHITECT.
- INSTALLER SHALL NOT CUT ANY STRUCTURAL MEMBERS WITHOUT FIRST SECURING WRITTEN APPROVAL FROM THE ARCHITECT.
- PROVIDE DIELECTRIC UNIONS AT ALL CONNECTIONS BETWEEN DISSIMILAR PIPING METALS.
- NO VENT THROUGH ROOF SHALL TERMINATE CLOSER THAN 10 FT. TO ANY OUTSIDE AIR INTAKE OR VENTILATION LOUVERS, DOORS, WINDOWS AND OTHER BUILDING OPENINGS.
- SANITARY SEWER AND MAIN WATER PIPING UNDERGROUND SHALL BE A MINIMUM OF 42" BELOW EXTERIOR GRADE.
- PIPING IN CONCRETE BLOCK WALLS SHALL BE INSTALLED AS BLOCK IS BEING LAID. DO NOT CUT BLOCK WALL.
- PROVIDE ALL SINKS AND LAVATORIES WITH TRAP FITTINGS FOR CLEANOUT
- CONTRACTOR IS RESPONSIBLE TO ALSO CHECKING FIELD CONDITIONS PRIOR TO BIDDING AND REPORT ANY PROBLEMS/CONFLICTS TO THE ENGINEER WITHIN 2 DAYS OF DISCOVERY. ANY CHANGES RESULTING FROM CONDITIONS ARISING IN THE FIELD WHICH WERE NOT BROUGHT TO THE ENGINEER'S ATTENTION ARE TO BE MADE BY THIS CONTRACTOR WITH NO ADDITIONAL COST TO THE OWNER
- ALL WORK IS TO BE FREE OF DEFECTS IN WORKMANSHIP AND MATERIALS FOR A PERIOD OF ONE(1) YEAR FROM DATE OF FINAL ACCEPTANCE. ALL DEFECTS WHICH DEVELOP OR ARE DISCOVERED WITHIN THIS PERIOD SHALL BE REPAIRED BY THE CONTRACTOR TO THE SATISFACTION OF THE OWNER AT NO ADDITIONAL COST TO THE OWNER.
- UPON COMPLETION OF THE WORK UNDER THIS CONTRACT, THE CONTRACTOR SHALL REMOVE ALL TOOLS, APPLIANCES, SURPLUS MATERIALS, AND SCRAP. ALL IDENTIFIED EXISTING EQUIPMENT TO BE REMOVED SHALL BE TURNED OVER TO THE OWNER.
- THE CONTRACTOR SHALL COORDINATE WORK WITH OTHER TRADES IN ORDER TO AVOID CONFLICTS.
- THE CONTRACTOR SHALL PROVIDE ALL CHROME EXPOSED TRAP PRIMER CONNECTIONS BELOW LAVATORIES
- PLUMBING CONTRACTOR SHALL PROVIDE NAMEPLATE INFO TO THE FACILITY MANAGER FOR WATER HEATER, AND RPZ.

**PLUMBING FIXTURE SCHEDULE**

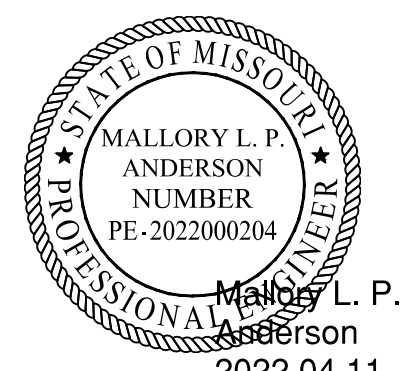
| TAG     | DESCRIPTION              | COMPONENT                   | MANUFACTURER      | MODEL                   | CW     | HW     | SAN               | VENT | FINISH          | NOTES  |
|---------|--------------------------|-----------------------------|-------------------|-------------------------|--------|--------|-------------------|------|-----------------|--|
| PF-WC   | FLOOR-MOUNT WATER CLOSET | WATER CLOSET                | KOHLER            | K-3519/3519-RA HIGHLINE | 12"    | ---    | 4"                | 2"   | WHITE/CHROME    |  |
|         |                          | OPEN-FRONT SEAT             | KOHLER            | K-4850                  |        |        |                   |      | WHITE           |  |
|         |                          | SUPPLY                      | ---               | ---                     |        |        |                   |      | POL. CHROME     | 3/8" NPT RIGHT ANGLE VALVE WITH LOOSE KEY STOP AND ANNEALED CHROME-PLATED COPPER RISER   |
| PF-LAV  | WALL-MOUNT LAVATORY      | LAVATORY                    | AMERICAN STANDARD | 0356.115/137 LUCERNE    | 12"    | 12"    | 2"                | 2"   | WHITE           | COORD. MODEL NUMBER TO POSITION SOAP DISPENSER AT WALL-SIDE OF LAV.  |
|         |                          | STRAINER                    | AMERICAN STANDARD | 2411.015                |        |        |                   |      | POL. CHROME     | WITH OVERFLOW AND TAILPIECE  |
|         |                          | P-TRAP                      | ---               | 1 1/4"                  |        |        |                   |      | POL. CHROME     | WITH ESCUTCHEON AND CLEANOUT   |
|         |                          | FAUCET                      | SLOAN             | EAF-200-P-ISM           |        |        |                   |      | POL. CHROME     | WITH AC POWER ADAPTER  |
|         |                          | SUPPLIES                    | ---               | 3/8"                    |        |        |                   |      | POL. CHROME     | POL. CHROME FLEX TUBE SUPPLIES, ESCUTCHEONS AND KEY STOPS  |
|         |                          | LAV GUARD                   | TRUEBRO           | LAV GUARD 2 EZ-SERIES   |        |        |                   |      | WHITE           | COVER TAILPIECE, P-TRAP, SUPPLIES AND VALVES   |
|         |                          | SOAP DISPENSER              | ---               | ---                     |        |        |                   |      | ---             | REFER TO TOILET ACCESSORIES SCHEDULE   |
| PF-SINK | LOUNGE SINK              | SINGLE-BOWL SINK            | ELKAY             | LRAD 202255-MR2         | 12"    | 12"    | 2"                | 2"   | STAINLESS STEEL |  |
|         |                          | STRAINER                    | ---               | 3 1/2"                  |        |        |                   |      | STAINLESS STEEL |  |
|         |                          | P-TRAP                      | ---               | ---                     |        |        |                   |      | PVC             |  |
|         |                          | FAUCET                      | ELKAY             | LK3000CR                |        |        |                   |      | POL. CHROME     | INSTALL OPTIONAL 2.2GPM FLOW REGULATOR   |
|         |                          | SUPPLIES                    | ---               | 3/8"                    |        |        |                   |      | ---             | FLEX HOSE SUPPLIES AND POL. CHROME KEY STOPS   |
| PF-MOP  | MOP SINK                 | FLOOR SINK                  | MUSTEE            | 63M                     | 3/4"   | 3/4"   | 3"                | 2"   | WHITE           |  |
|         |                          | FAUCET                      | MUSTEE            | 63.600A                 |        |        |                   |      | CHROME          | WITH INTEGRAL VACUUM BREAKERS  |
|         |                          | HOSE AND BRACKET            | MUSTEE            | 65.700                  |        |        |                   |      | STAINLESS STL.  | SHORTEN HOSE TO PROVIDE AIR GAP  |
|         |                          | MOP HANGER                  | MUSTEE            | 65.600                  |        |        |                   |      | STAINLESS STL.  |  |
|         |                          | SPLASHES                    | BY G.C.           | FRP-1                   |        |        |                   |      | FRP             | REFER TO INTERIOR ELEVATIONS   |
| PF-WH   | DOMESTIC WATER HEATER    | WATER HEATER                | A.O. SMITH        | EJC-10                  | 1-1/4" | 1-1/4" | ---               | ---  | ---             | OR EQUAL 10-GAL ELEC. WATER HEATER, 6kW ELEMENT, 240V/1PH ALT. TANKLESS ELECTRIC OR GAS-FIRED UNIT, SIZED AS REQD.               |
|         |                          | WALL-MT. BRACKET / DRIP PAN | HOLDRITE          | 40 SWHP-W               |        |        |                   |      | ---             | MAINTAIN 81" MIN. HEADROOM CLEARANCE TO FLOOR BELOW  |
| PF-DF   | DRINKING FOUNTAIN        | ---                         | ELKAY             | EZSTL8WSSK              | 12"    | ---    | 2"                | 2"   | STAINLESS STEEL | WITH BOTTLE FILLER   |
| PF-WHB  | WALL HOSE BIB            | ---                         | WOODFORD          | B65                     | 3/4"   | ---    | ---               | ---  | CHROME          | 18" ABOVE T.O. FND.  |
| PF-RHB  | ROOF HOSE BIB            | ---                         | WOODFORD          | RHY1-MS                 | 3/4"   | ---    | ---               | ---  | PRE-FIN. PAINT  |  |
| PF-FD   | FLOOR DRAIN              | FLOOR DRAIN                 | ZURN              | 415S-Y-P                | ---    | ---    | 3"                | 2"   | NICKEL BRONZE   | W/ SEDIMENT BUCKET   |
|         |                          | TRAP SEAL                   | JAY R. SMITH      | 2692-04                 | ---    | ---    | ---               | ---  | ---             |  |
| PF-RD1  | ROOF DRAIN- LARGE        | ---                         | ZURN              | ZC100-DP-VP             | ---    | ---    | REFER TO DRAWINGS | ---  | CAST IRON       | PROVIDE PERIMETER BLOCKING TO RAISE DECK PLATE TO ROOFING LEVEL; INCLUDES DECK MOUNTING PLATE AND SECURED STRAINER               |
| PF-OD1  | ROOF OVERFLOW- LARGE     | ---                         | ZURN              | ZC100-DP-VP-89          | ---    | ---    | REFER TO DRAWINGS | ---  | CAST IRON       | PROVIDE PERIMETER BLOCKING TO RAISE DECK PLATE TO ROOFING LEVEL; INCLUDES DECK MOUNTING PLATE, SECURED STRAINER AND OVERFLOW DAM |
| PF-DN1  | DOWNSPOUT NOZZLE         | ---                         | ZURN              | ZANB199-SS 4"           | ---    | ---    | ---               | ---  | NICKEL BRONZE   | 4" DIA., WITH REMOVABLE SCREEN   |
| PF-GCO  | GROUND CLEAN-OUT         | ---                         | ZURN              | Z1440Z1475              | ---    | ---    | ---               | ---  | STAINLESS STEEL |  |
| PF-WCO  | WALL CLEAN-OUT           | ---                         | ZURN              | Z1446                   | ---    | ---    | ---               | ---  | STAINLESS STEEL |  |
| PF-FCO  | FLOOR CLEAN-OUT          | ---                         | ZURN              | ZS1400                  | ---    | ---    | ---               | ---  | STAINLESS STEEL |  |

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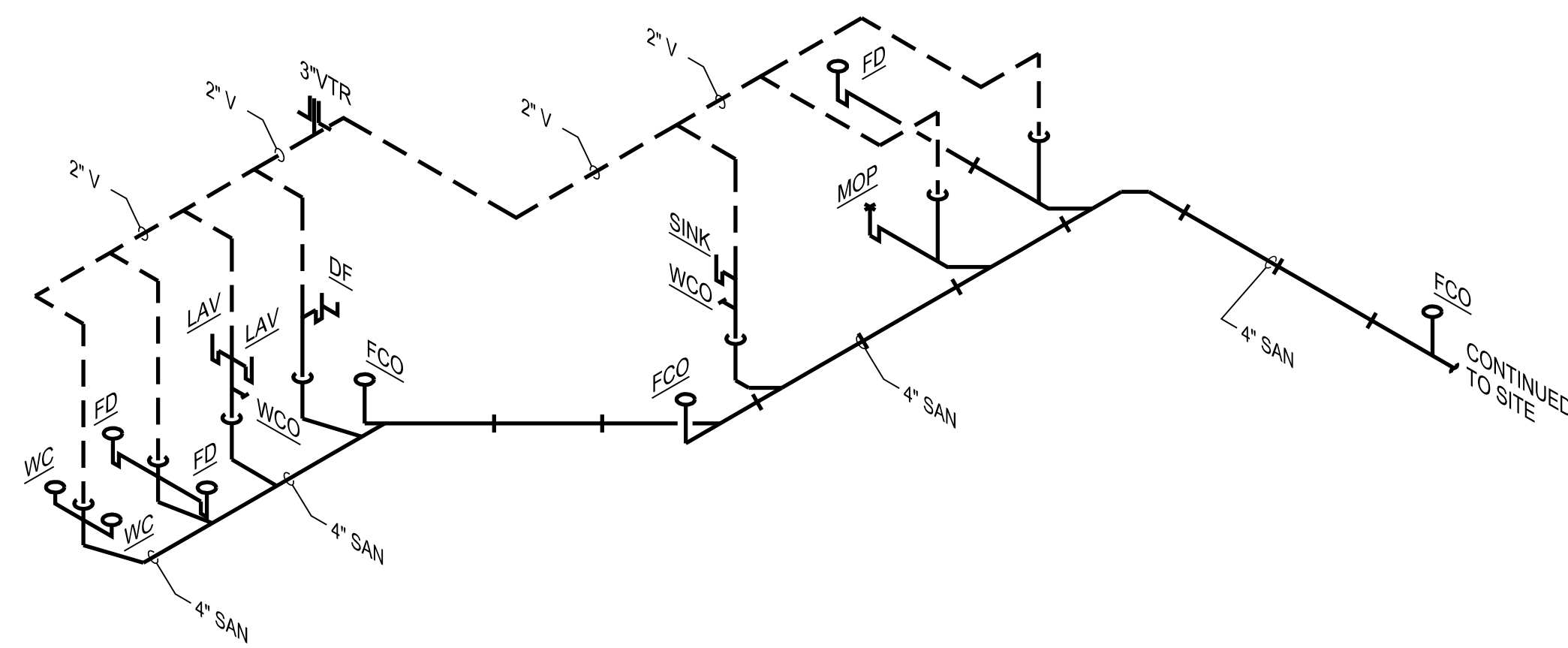
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**PLUMBING GENERAL NOTES  
LEGEND AND SCHEDULES**

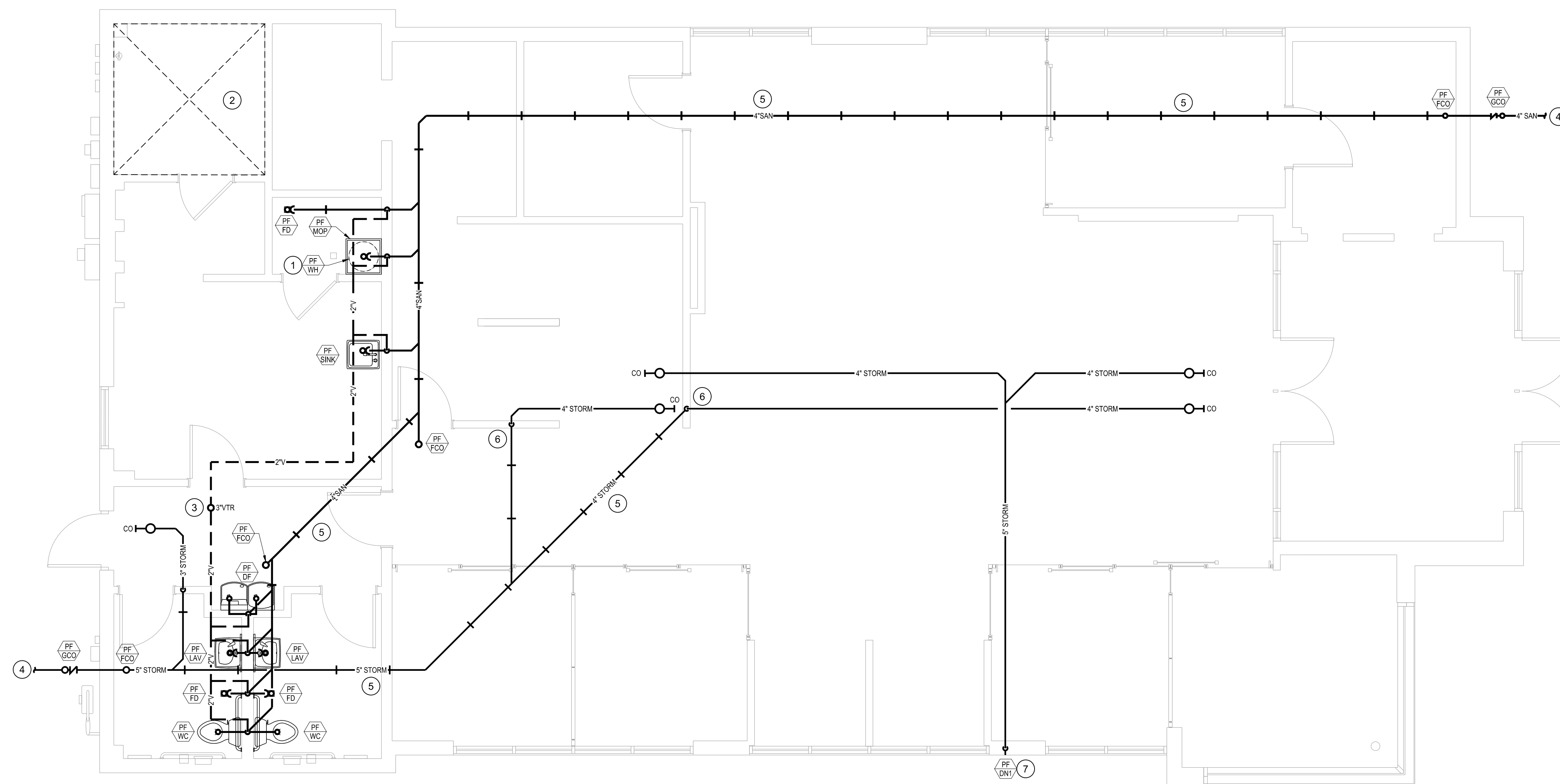
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SHEET

**P-0**



2  
P1 PIPING SCHEMATIC  
NO SCALE

- # SHEET NOTES
1. SCHEDULED WATER HEATER AND WALL-MOUNT PLATFORM WITH DRIP PAN ABOVE MOP SINK. REFER TO DETAIL ON SHEET P-4.
  2. NO PLUMBING SHALL BE ROUTED THROUGH DATA ROOM.
  3. VENT THROUGH ROOF. COORDINATE LOCATION WITH RTU OUTSIDE AIR INTAKES. VTR SHALL NOT BE WITHIN 10'-0" OF OUTSIDE AIR INTAKES.
  4. CONTINUED TO SITE. REFER TO CIVIL DRAWINGS FOR CONTINUATION.
  5. COORDINATE ALL UNDERSLAB ROUTING WITH STRUCTURAL MEMBERS AND FOOTINGS, TYPICAL THROUGHOUT BUILDING.
  6. STORM DRAIN ROUTED WITHIN WALL TO BELOW SLAB.
  7. SET DOWNSPOUT NOZZLE INVERT 1'-0" ABOVE TOP OF FOUNDATION.



1  
P1 SANITARY SEWER - FLOOR PLAN  
1/4" = 1'-0"

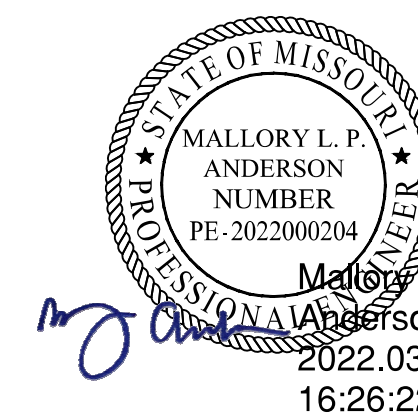
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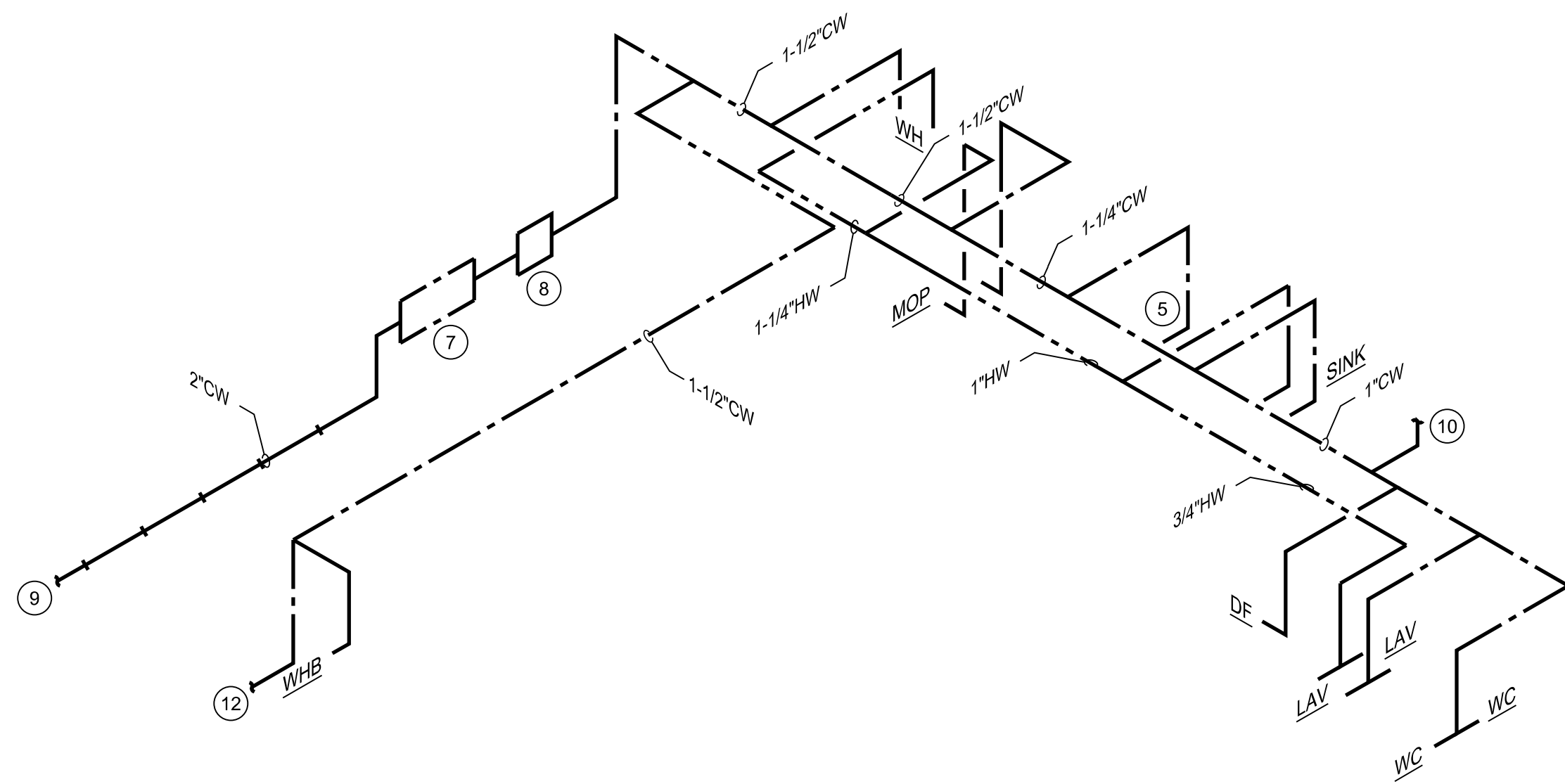
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PLUMBING SANITARY  
SEWER FLOOR PLAN

02/04/2022

SHEET

**P-1**



2 DOMESTIC WATER - PIPING SCHEMATIC  
P2 NTS



1 DOMESTIC WATER - FLOOR PLAN  
P2 1/4" = 1'-0"

- # SHEET NOTES
- SCHEDULED WATER HEATER AND WALL-MOUNT PLATFORM WITH DRIP PAN ABOVE MOP SINK. REFER TO DETAIL ON SHEET P-4.
  - NO PLUMBING SHALL BE ROUTED THROUGH DATA ROOM.
  - 3/4" CW AND 3/4" HW ROUTED TO MOP SINK.
  - PROVIDE WATER HAMMER ARRESTOR DEVICE. REFER TO DETAIL ON SHEET P-4 FOR LOCATION AND QUANTITY REQUIREMENTS.
  - 1/2" CW TO COFFEE MAKER. PROVIDE WITH BACKFLOW PREVENTER.
  - 1-1/4" HW AND 1-1/4" CW ROUTED TO/FROM HOT WATER HEATER.
  - LOCATION OF BACKFLOW PREVENTER ASSEMBLY. PROVIDE BACKFLOW PREVENTER TESTING TO ENSURE PROPER FUNCTION. REFER TO DETAIL ON SHEET P-3.
  - LOCATION OF WATER METER AND BUILDING MAIN SHUT-OFF VALVE.
  - UNDERGROUND DOMESTIC WATER CONTINUED TO SITE. COORDINATE WITH CIVIL.
  - 3/4" CW ROUTED TO HOSE BIBB ON ROOF. REFER TO SHEET P-3 FOR CONTINUATION.
  - LOCATION OF NEW GAS METER. 1-1/4" GAS PIPING ROUTED ON EXTERIOR OF BUILDING TO ROOF. REFER TO SHEET P-3 FOR CONTINUATION.
  - CONTINUED TO IRRIGATION ZONES. REFER TO CIVIL.
  - LANDSCAPE IRRIGATION SYSTEM CONTROLLER AND WIRELESS NETWORK LINK. PROVIDE WITH DEDUCT METER. PROVIDE WITH 25 GPM BACKFLOW PREVENTER. PROVIDE BACKFLOW PREVENTER TESTING TO ENSURE PROPER FUNCTION.

PREPARED BY:  
**EBI Consulting**  
ENVIRO BUSINESS, INC.  
21 B Street | Burlington, MA 01803  
Tel: (781) 273-2500 | www.ebiconsulting.com

SIGNED BY:  
  
 Mallory L. P. Anderson  
 2022.03.02  
 16:26:57-05'00"

**PRYOR ROAD & LOWENSTEIN DRIVE**  
 908 NW PRYOR ROAD  
 LEE'S SUMMIT, MO 64081

EBI JOB #412100090

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**CHASE**

PRYOR & LOWENSTEIN  
 PROTOTYPE VERSION 20.4

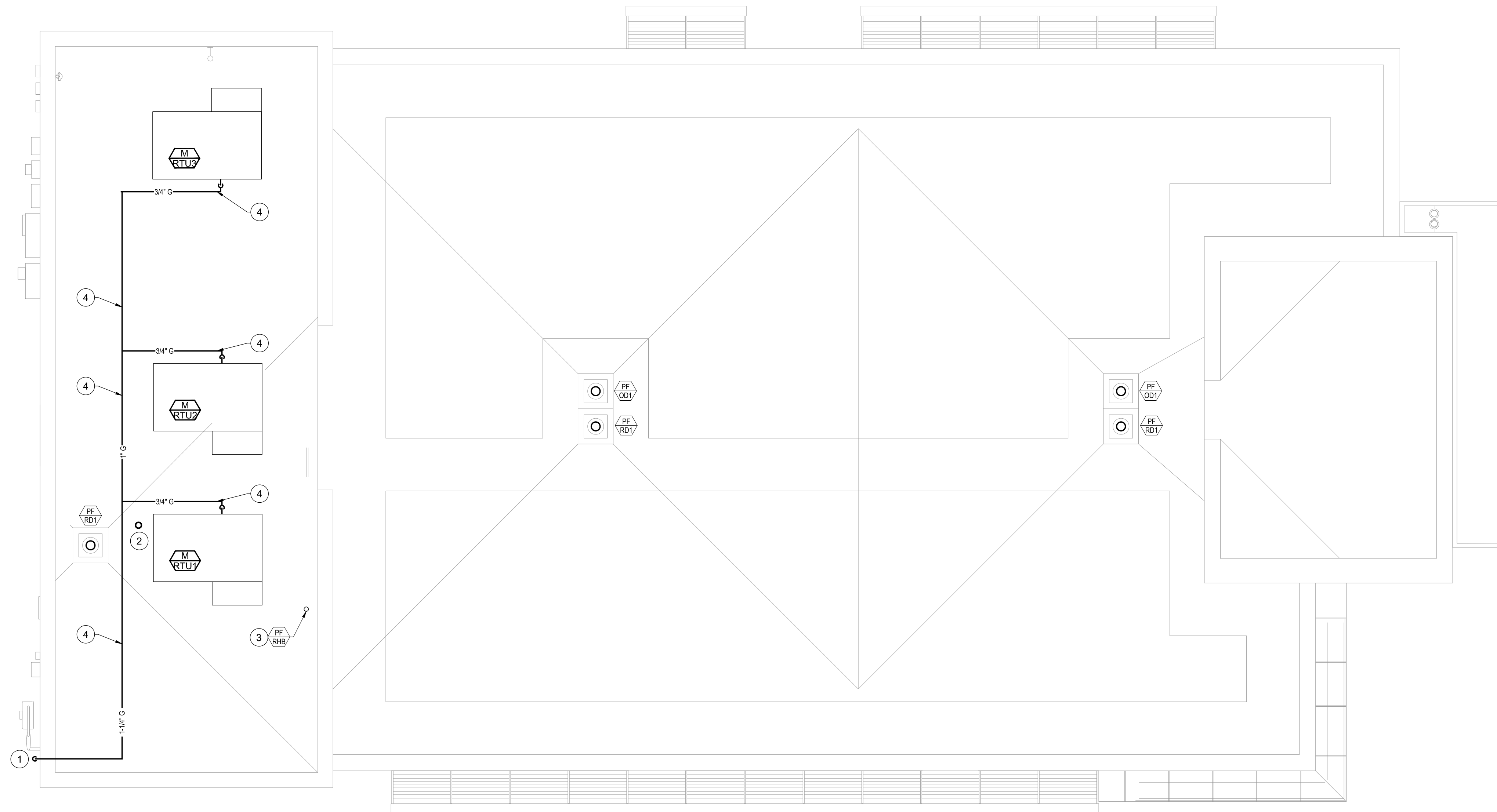
CONTENTS

PLUMBING DOMESTIC WATER FLOOR PLAN

02/04/2022  
 SHEET

**P-2**

- # SHEET NOTES**
1. GAS PIPING ROUTED ON EXTERIOR OF BUILDING TO GAS METER. REFER TO P-2 FOR CONTINUATION.
  2. 3" VENT THROUGH ROOF LOCATED A MINIMUM OF 10'-0" FROM OUTSIDE AIR INTAKES. COORDINATE EXACT LOCATION WITH ROOFTOP UNITS.
  3. 3/4" CW ROUTED TO RHB FROM FLOOR BELOW.
  4. COORDINATE ROUTING OF GAS PIPING WITH WALKPADS ON ROOF. AVOID INTERFERENCE WITH WALKPADS AND RTU ACCESS CLEARANCES AS MUCH AS POSSIBLE.



**1 PLUMBING - ROOF PLAN**  
**P3** 1/4" = 1'-0"

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**PRYOR ROAD & LOWENSTEIN DRIVE**  
 908 NW PRYOR ROAD  
 LEE'S SUMMIT, MO 64081

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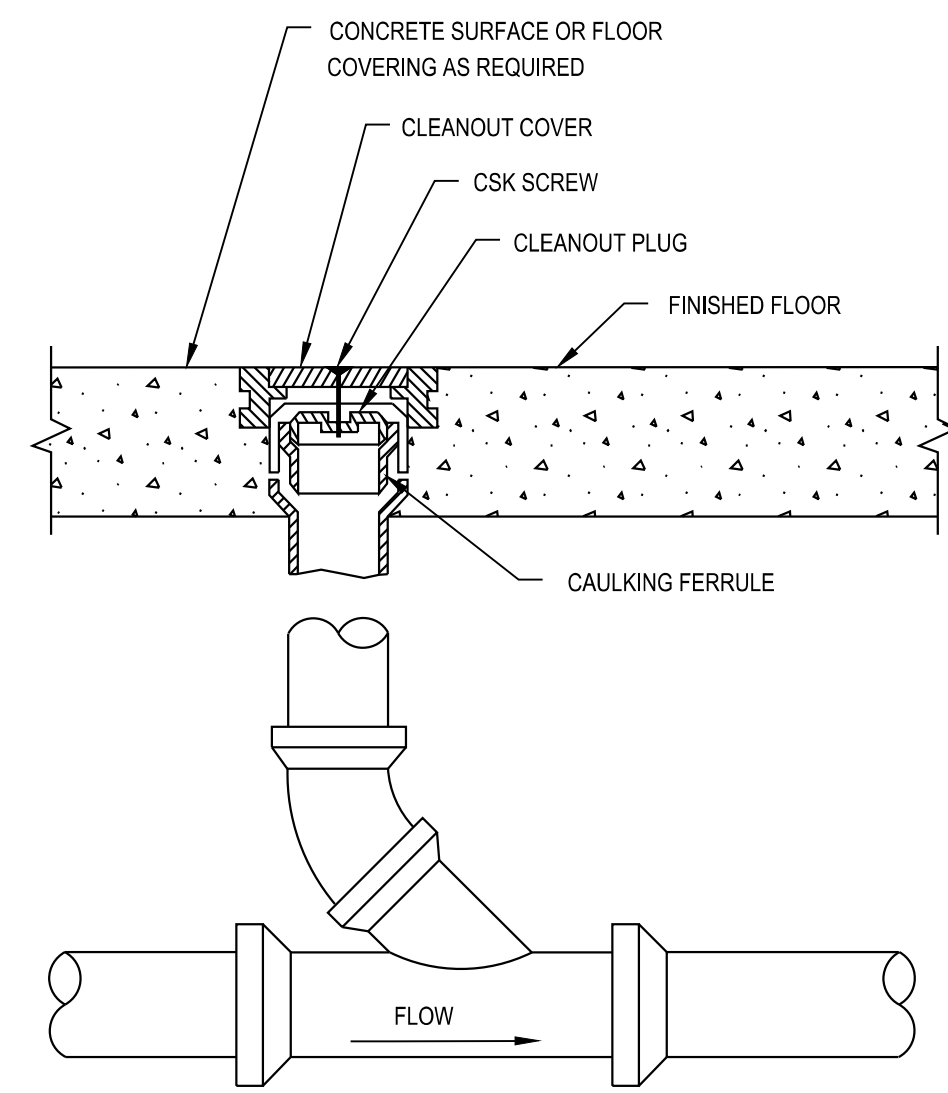


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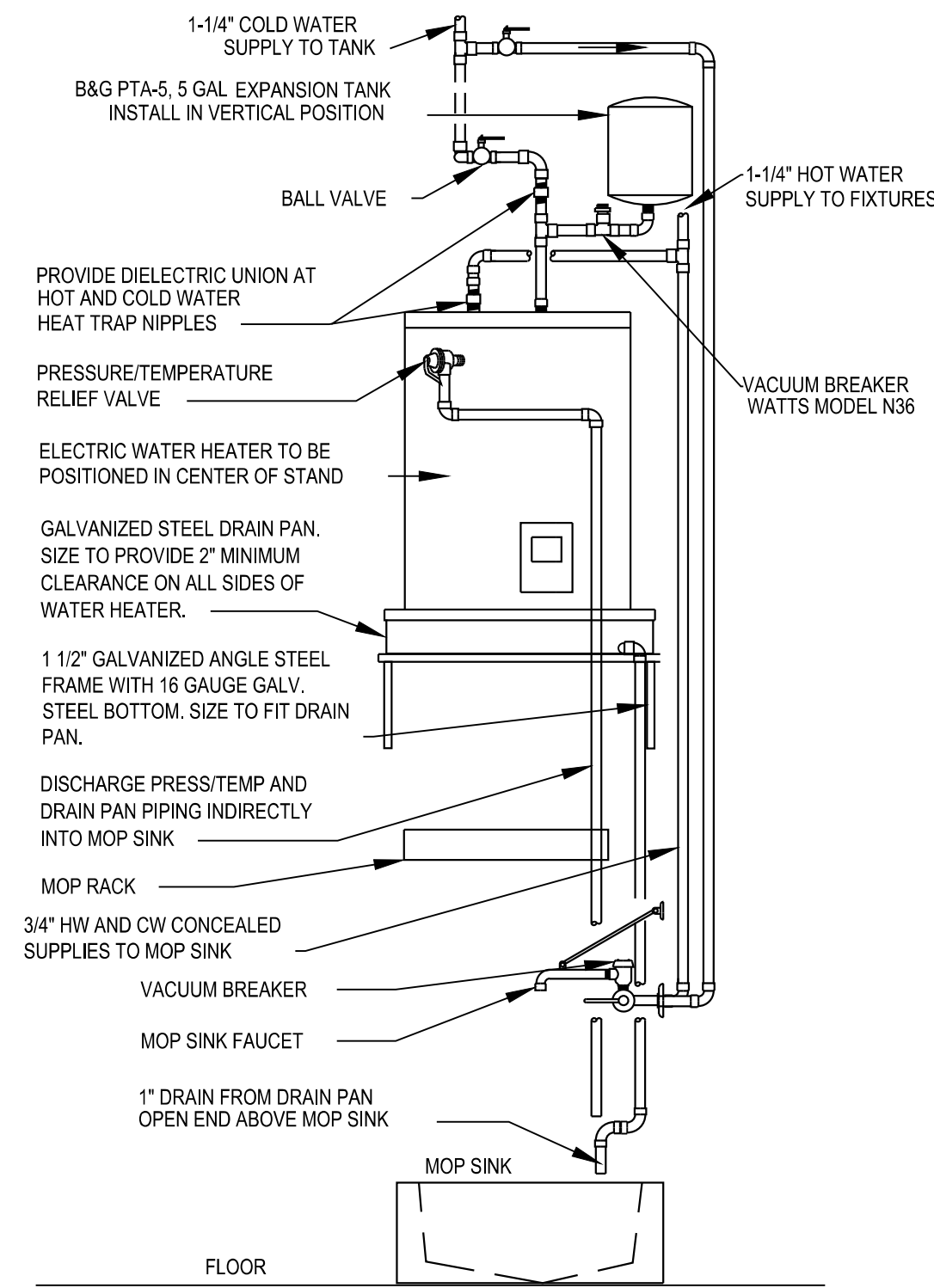
CONTENTS  
 PLUMBING ROOF PLAN

02/04/2022  
 SHEET

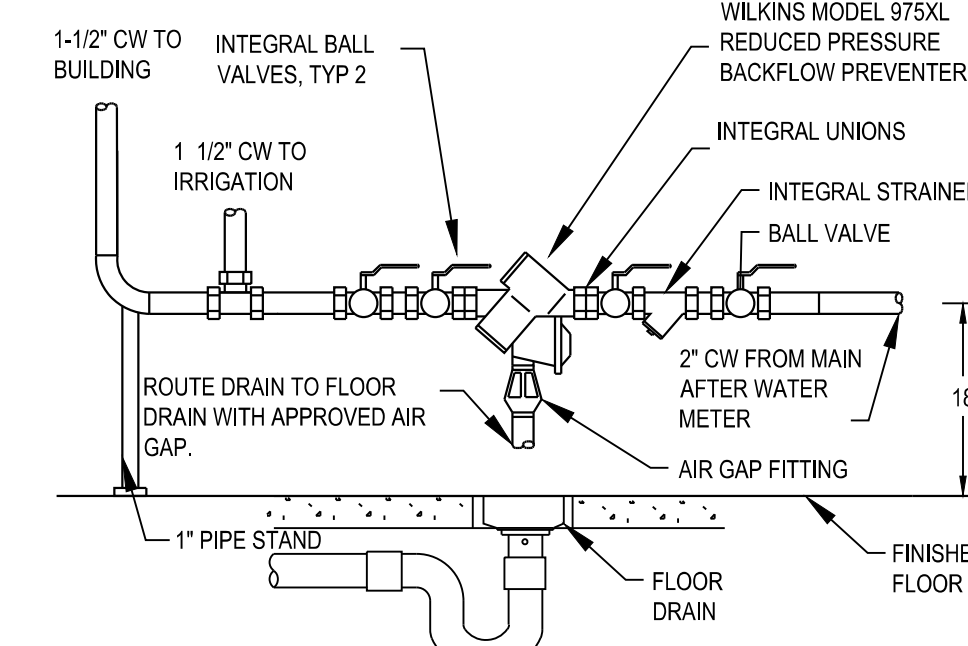
**P-3**



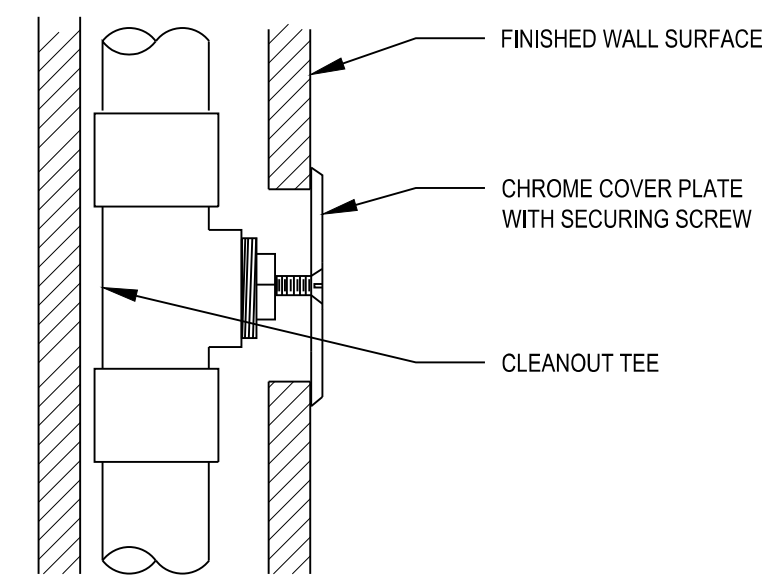
1 FLOOR CLEAN OUT  
P4 N.T.S.



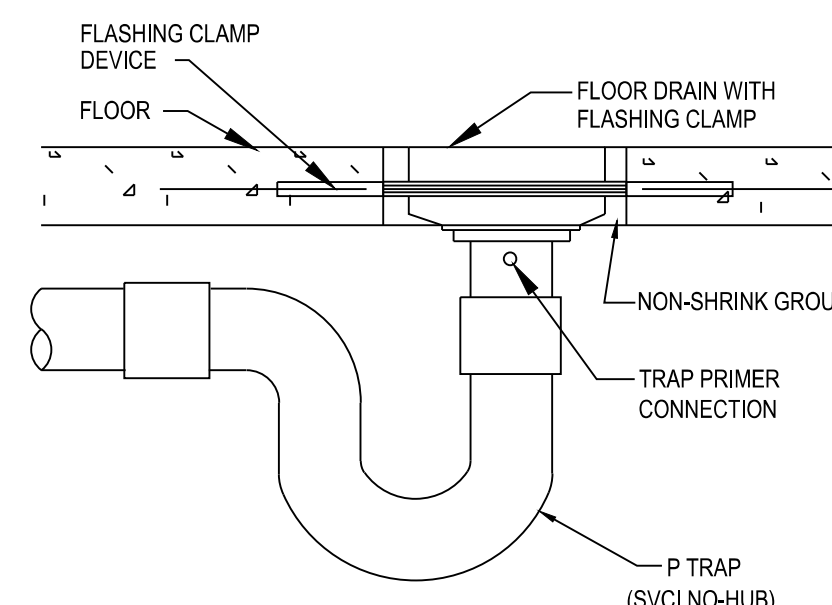
2 SUSPENDED WATER HEATER  
P4 N.T.S.



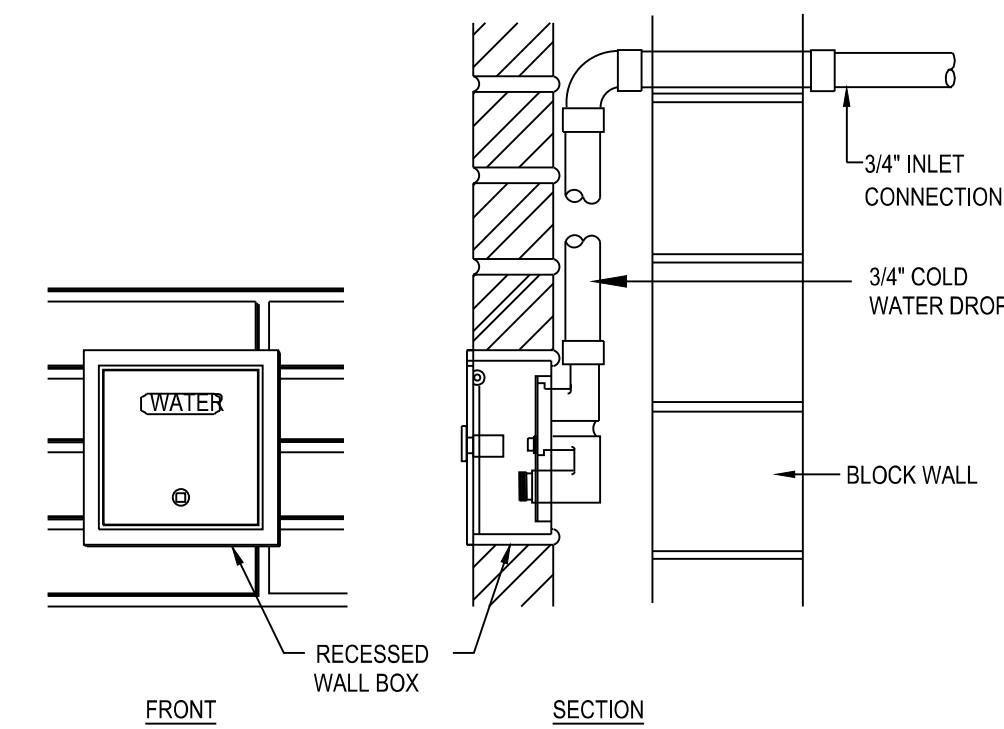
3 REDUCED-PRESSURE ZONE PIPING  
P4 N.T.S.



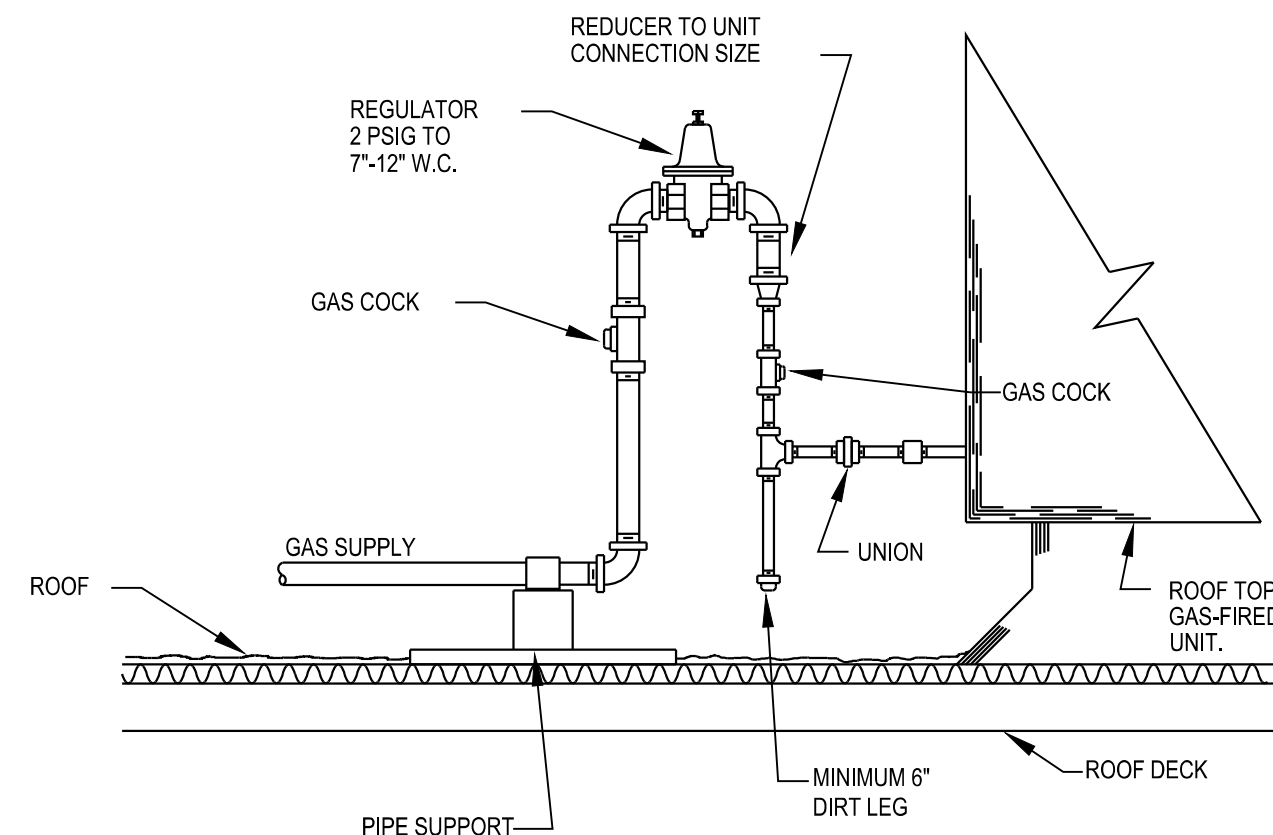
4 TYP. WALL CLEANOUT  
P4 N.T.S.



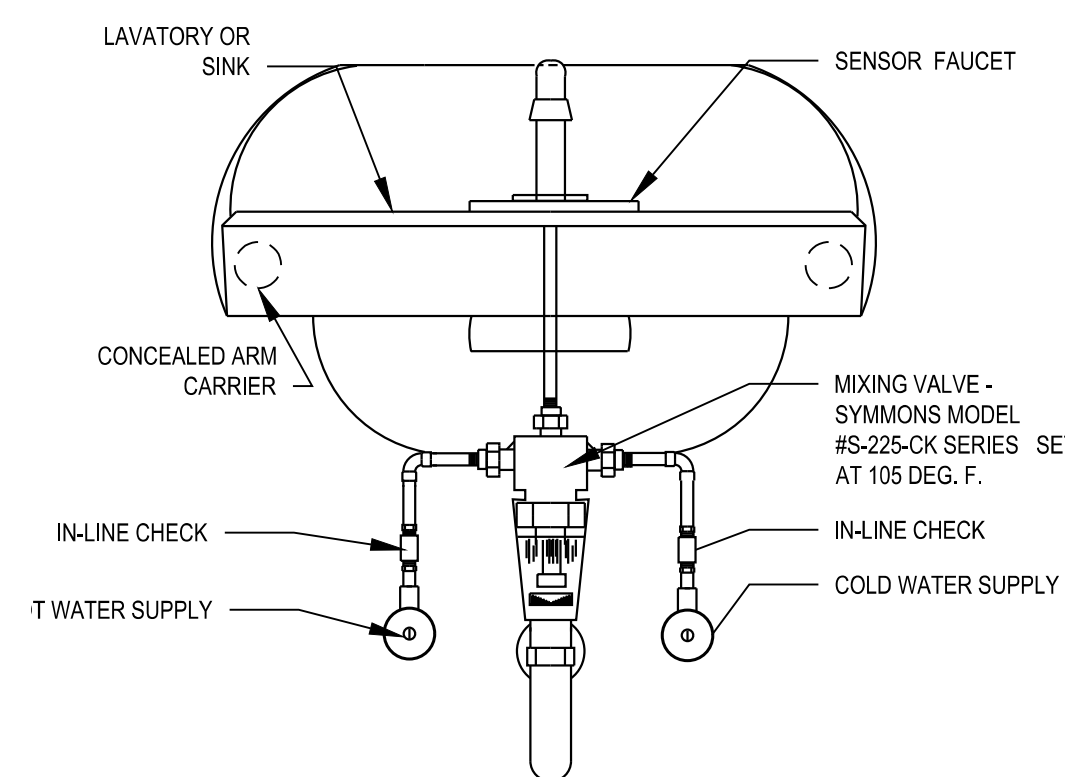
5 TYP. FLOOR DRAIN  
P4 N.T.S.



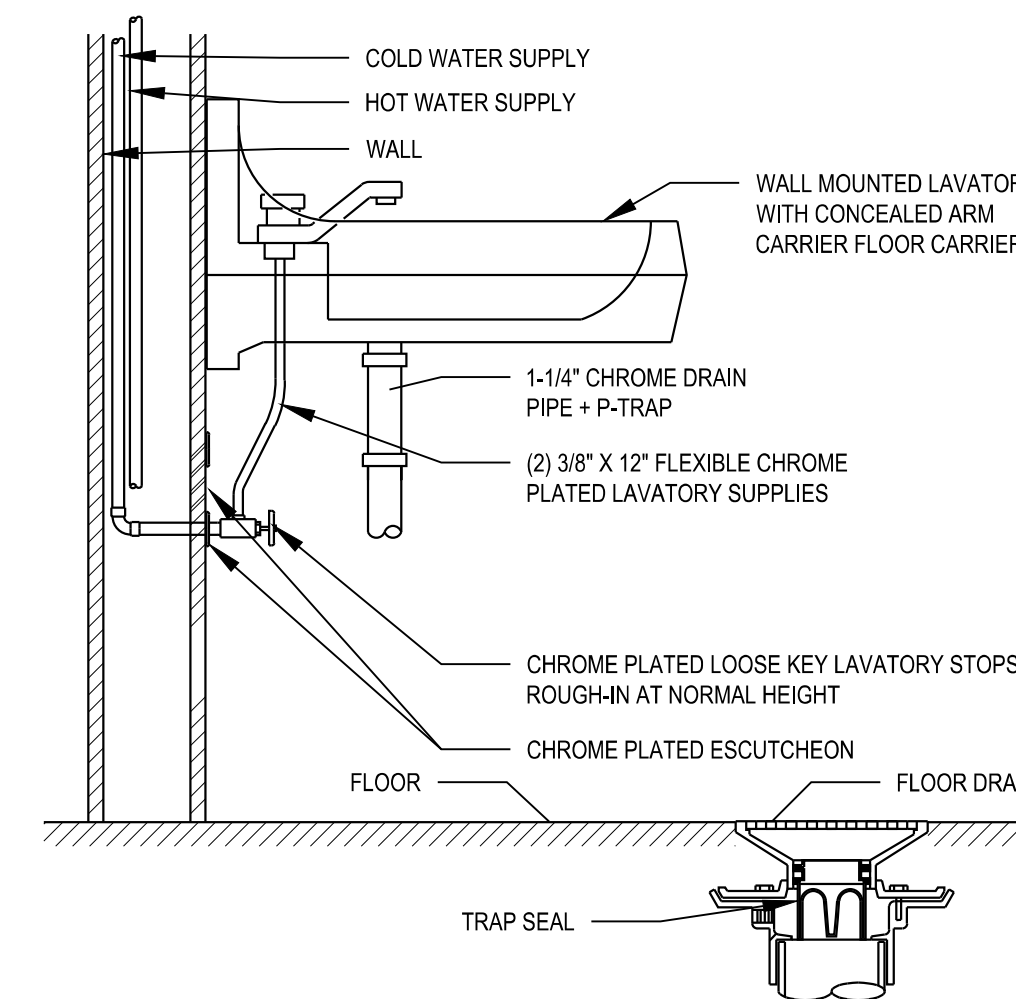
6 TYP. EXTERIOR WALL HYDRANT  
P4 N.T.S.



7 ROOFTOP UNIT GAS PIPING CONNECTION  
P4 N.T.S.



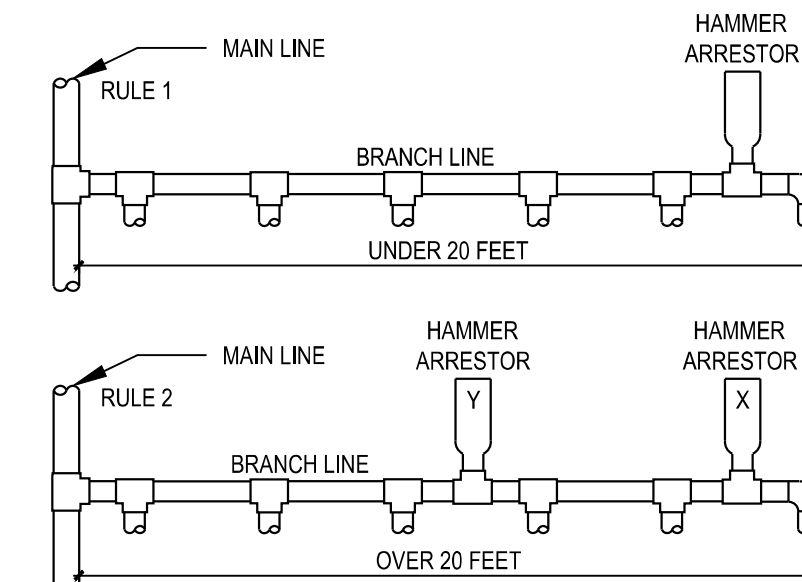
8 TYP. FIXTURE MIXING VALVE  
P4 N.T.S.



9 TYP. TRAP SEAL  
P4 N.T.S.

RULE 1: BRANCH LINES OF 20 FEET OR LESS. THE HAMMER ARRESTOR SHOULD BE PLACED AT THE END OF THE BRANCH LINE BETWEEN THE LAST TWO FIXTURES.

RULE 2: BRANCH LINES OVER 20 FEET. AN ADDITIONAL HAMMER ARRESTOR (Y) SHOULD BE PLACED AS SHOWN (BELOW), THE ADDITIONAL UNIT PLACED AT THE MIDPOINT OF THE RUN LONGER THAN 20 FEET. THE SUM OF THE FIXTURE UNIT RATINGS OF (X) AND (Y) COMBINED, SHOULD BE EQUAL TO OR GREATER THAN THE DEMAND OF ALL BRANCHES. INSTALL IN A ACCESSIBLE AREA



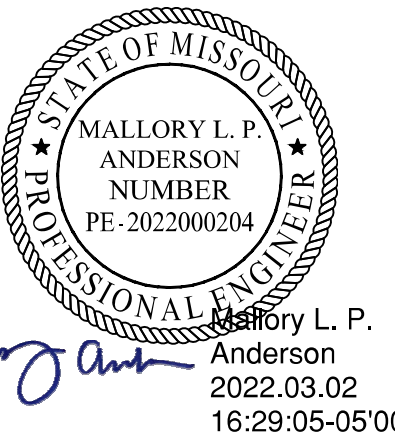
10 TYP. WATER HAMMER ARRESTOR  
P4 N.T.S.

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SIGNED BY:



Mallory L. P. Anderson  
2022.03.02  
16:29:05-05'00"

**PRYOR ROAD &  
LOWENSTEIN DRIVE**

908 NW PRYOR ROAD  
LEE'S SUMMIT, MO 64081

EBI JOB #412100090

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**CHASE**

PRYOR & LOWENSTEIN  
PROTOTYPE VERSION 20.4

CONTENTS

PLUMBING DETAILS

02/04/2022

SHEET

**P-4**

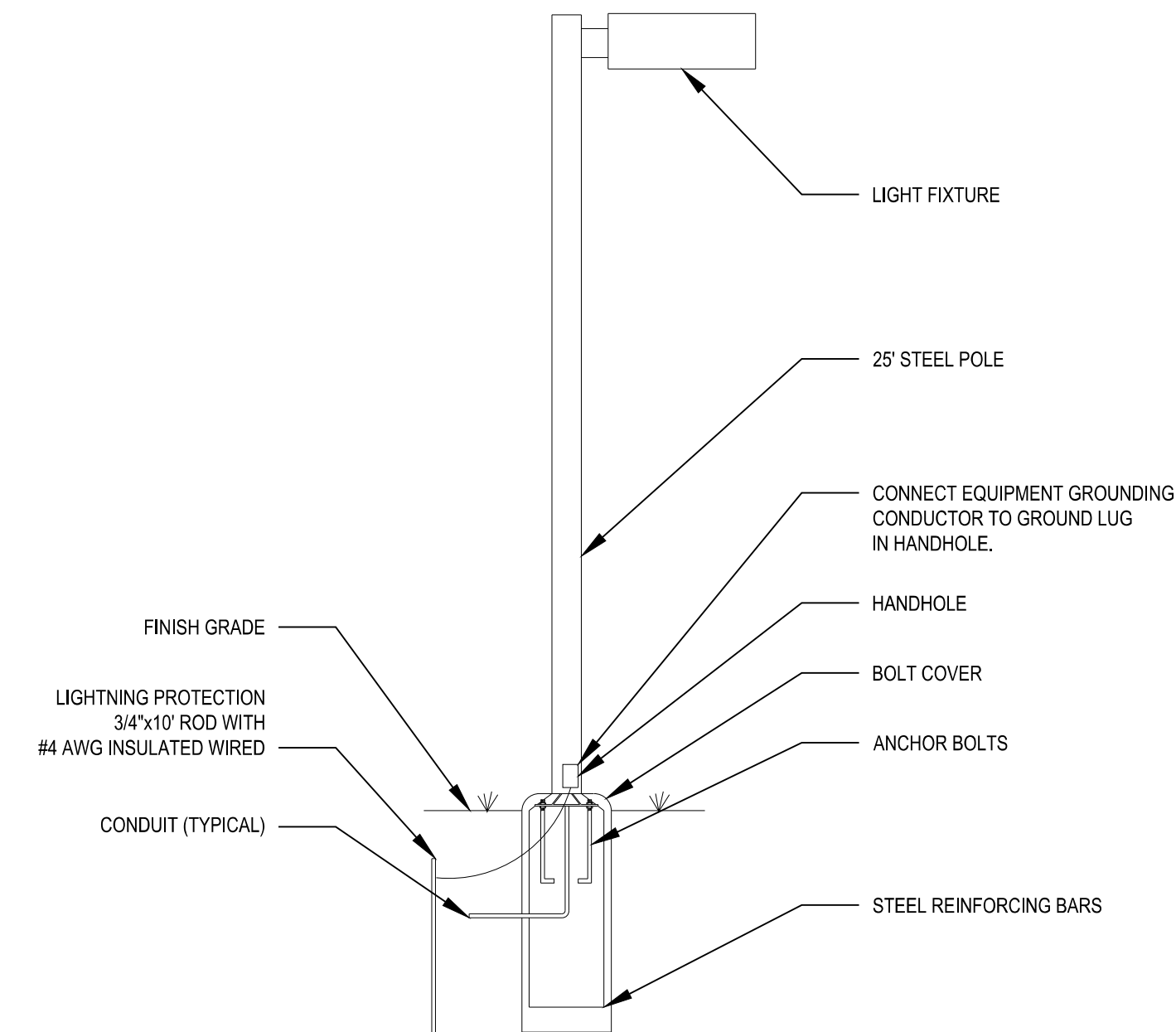


**LIGHTING CONTROL NOTES**

- LC-1 EXT. BUILDING AND SITE LIGHTING CONTROLLED BY DAINTREE WA100-PM INSTALLED AT SWITCH LEG OR CIRCUIT HEAD. IF TWO-POLE, PROVIDE AUX. RELAY TO CONTROL SECOND LINE.
- LC-3 PROVIDE MULTIPLE WIRELESS ADAPTERS WHERE CIRCUIT CURRENT OR NUMBER OF FIXTURES EXCEED THE MAXIMUM PERMITTED FOR A SINGLE ADAPTER. DO NOT COMBINE MULTIPLE FIXTURE TYPES ON A SINGLE ADAPTER (TYPICAL).
- LC-13 FOR EXTERIOR BUILDING-MOUNT LIGHT FIXTURE CONTROL, REFER TO LIGHTING AND POWER CONTROL PLAN, SHEET E2

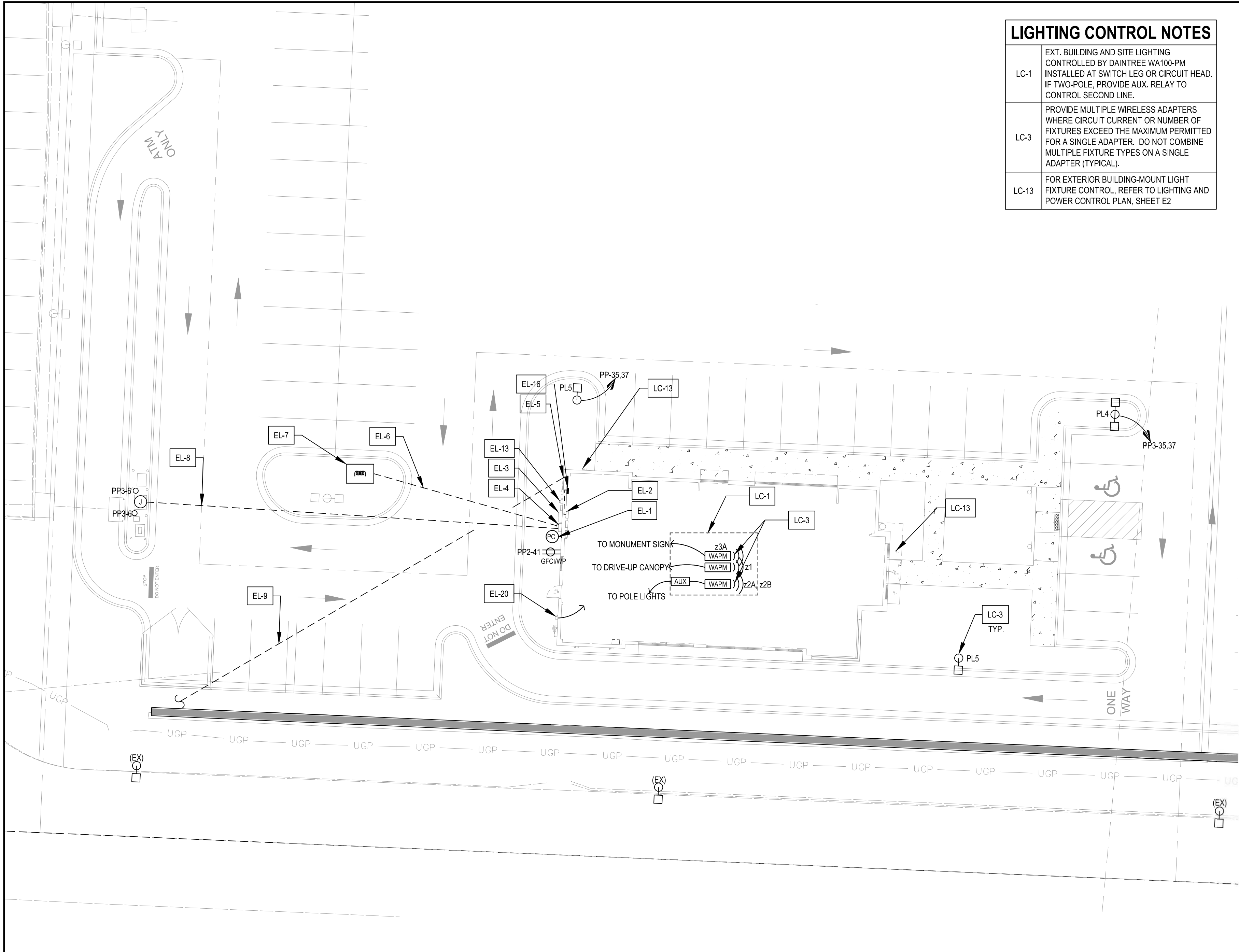
**ELECTRICAL PLAN NOTES**

- EL-1 PHOTOCELL HIGH ON WALL- REFER TO ARCHITECTURAL DRAWINGS FOR EXACT LOCATION- MOUNT AWAY FROM LIGHT SOURCES AS REQD.- SLEEVE WALL AND SEAL WATER TIGHT
- EL-2 INTERIOR SERVICE AND DISTRIBUTION PANELS
- EL-3 TRANSFER SWITCH ENCLOSURE
- EL-4 INLINE METER SOCKET. COORDINATE REQUIREMENTS WITH LOCAL UTILITY- INCLUDE ALL COSTS IN BASE BID.
- EL-5 TELE-DATA SERVICE ENCLOSURES- ROUTE (2) 2" CONDUITS WITH PULL STRINGS TO DATA ROOM. COORDINATE FINAL STUB-UP LOCATIONS WITH TELEPHONE PROVIDER PRIOR TO INSTALLATION.
- EL-6 UNDERGROUND ELECTRIC SERVICE CONDUITS AND FEEDERS- COORDINATE WITH UTILITY COMPANY FOR EXACT ROUTING AND STUB-UP LOCATION. STAKE CONDUIT END LOCATION FOR UTILITY COMPANY.
- EL-7 PROPOSED LOCATION OF 3-PHASE GROUND-MOUNTED POWER TRANSFORMER BY UTILITY COMPANY- COORDINATE FINAL LOCATION, PRIMARY CONDUIT AND FEEDER AND OTHER REQUIREMENTS WITH UTILITY COMPANY- INCLUDE ALL COSTS IN BASE BID
- EL-8 (2) 1" CONDUITS WITH PULL STRING FROM PP1 AND DATA ROOM TO ATM FOR POWER AND DATA CONNECTIONS.
- EL-9 UNDERGROUND TELEPHONE SERVICE CONDUITS (2 EMPTY 3" WITH PULL STRING). EXTEND TO TELEPHONE SERVICE DEMARCATION POINT. COORDINATE THE FINAL LOCATION AND ALL REQUIREMENTS WITH THE TELEPHONE SERVICE COMPANY.
- EL-13 FUTURE NEMA 3R PHOTOVOLTAIC EQUIPMENT CONNECTION ENCLOSURES
- EL-16 UNDER-SLAB CONDUIT ROUTING AND TERMINATIONS AS REQUIRED- REFER TO ARCHITECTURAL DRAWINGS
- EL-20 IRRIGATION SYSTEM POWER STUB.



NOTE:  
POLE SUPPLIER SHALL CERTIFY THAT POLE, BASE, & FIXTURE MEET THE BUILDING CODE'S WIND LOAD CRITERIA AND SHALL PROVIDE SIGNED & SEALED CALCULATIONS BY A REGISTERED ENGINEER.

**2 POLE DETAIL**  
E-1 NTS

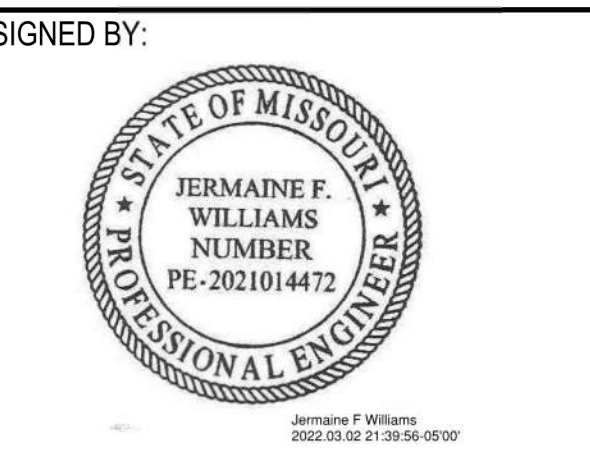


**1 SITE PLAN**  
E-1 1/16" = 1'-0"

**SCHEDULE OF NEW BRANCH CIRCUIT PANEL PP1**

| LOAD VA  | LOAD DESCRIPTION       | BRANCH CIRCUIT DATA |      |        |       |      |            | BRANCH CIRCUIT DATA |            |                |      |       |        | LOAD DESCRIPTION | LOAD VA |                 |      |
|----------|------------------------|---------------------|------|--------|-------|------|------------|---------------------|------------|----------------|------|-------|--------|------------------|---------|-----------------|------|
|          |                        | WIRE                | GND  | COND.  | TRIP  | OCT. | PHASE A VA | PHASE B VA          | PHASE C VA | OCT.           | TRIP | COND. | GND    |                  |         | WIRE            |      |
| 3960     | RTU-1                  | 3#6                 | 1#10 | 3/4"   | 45/3  | 1    | 7920       |                     |            |                | 2    |       |        |                  | 3960    |                 |      |
| 3960     |                        |                     |      |        |       | 3    |            | 7920                |            |                | 4    | 45/3  | 3/4"   | 1#10             | 3#6     | RTU-2           | 3960 |
| 3960     |                        |                     |      |        |       | 5    |            | 7920                |            |                | 6    |       |        |                  |         | 3960            |      |
| 1320     | OU-1/1U-1              | 2#10                | 1#10 | 3/4"   | 30/2  | 9    | 5280       |                     |            |                | 8    |       |        |                  |         | 3960            |      |
| 1320     |                        |                     |      |        |       | 9    |            | 5280                |            |                | 10   | 45/3  | 3/4"   | 1#10             | 3#6     | RTU-3           | 3960 |
| 400      | SAFE                   | 2#12                | 1#12 | 1/2"   | 20    | 11   |            |                     |            |                | 12   |       |        |                  |         | 400             |      |
| 400      | RECEPTS ROOF           | 2#12                | 1#12 | 1/2"   | 20    | 13   | 1480       |                     |            |                | 14   | 20    | 1/2"   | 1#12             | 2#12    | OU-2/1U-2       | 1080 |
| 600      | ATM - DRIVE UP         | 2#10                | 1#10 | 3/4"   | 20    | 15   |            | 1680                |            |                | 16   |       |        |                  |         |                 | 400  |
| 600      | ATM - VESTIBULE        | 2#12                | 1#12 | 1/2"   | 20    | 17   |            |                     |            |                | 18   | 20    | 1/2"   | 1#12             | 2#12    | TOWEL DISPENSER | 400  |
| 200      | IRRIGATION CONTROLLER* | 2#12                | 1#12 | 1/2"   | 20    | 19   | 200        |                     |            |                | 20   |       |        |                  |         | SPARE           | 0    |
| 0        | SPARE                  |                     |      |        |       | 20   |            |                     |            |                | 21   |       |        |                  |         | SPARE           | 3000 |
| 0        | SPARE                  |                     |      |        |       | 20   |            |                     |            |                | 22   | 30/2  | 3/4"   | 1#10             | 2#10    | EVH             | 3000 |
| 100      | TVSS                   |                     |      |        |       | 23   |            |                     |            |                | 24   |       |        |                  |         | SPARE           | 0    |
| 100      |                        |                     |      |        |       | 25   | 100        |                     |            |                | 26   |       |        |                  |         | SPARE           | 0    |
| 100      |                        |                     |      |        |       | 27   |            | 100                 |            |                | 28   |       |        |                  |         | SPARE           | 0    |
| 7920     |                        |                     |      |        |       | 29   |            |                     |            |                | 30   | 20    |        |                  |         | SPARE           | 0    |
| 7920     |                        |                     |      |        |       | 31   | 12078      |                     |            |                | 32   |       |        |                  |         |                 | 4158 |
| 9020     | PANEL PP2              | 4#3                 | 1#8  | 1-1/4" | 100/3 | 33   |            | 13318               |            |                | 34   | 100/3 | 1-1/4" | 1#8              | 4#3     | PANEL PP3       | 4298 |
| 7400     |                        |                     |      |        |       | 35   |            |                     |            |                | 36   |       |        |                  |         |                 | 2784 |
| 0        | SPACE                  |                     |      |        |       | 37   |            |                     |            |                | 38   |       |        |                  |         | SPACE           | 0    |
| 0        | SPACE                  |                     |      |        |       | 39   |            |                     |            |                | 40   |       |        |                  |         | SPACE           | 0    |
| 0        | SPACE                  |                     |      |        |       | 41   |            |                     |            |                | 42   |       |        |                  |         | SPACE           | 0    |
| NOTES:   |                        |                     |      |        |       |      | 27.06      | 31.3                | 26.56      | KVA PER PHASE  |      |       |        |                  |         |                 |      |
| * LOCKED |                        |                     |      |        |       |      | 225.5      | 260.8               | 221.4      | AMPS PER PHASE |      |       |        |                  |         |                 |      |
|          |                        |                     |      |        |       |      | 84.9       |                     |            | TOTAL KVA      |      |       |        |                  |         |                 |      |
|          |                        |                     |      |        |       |      | 236.0      |                     |            | TOTAL AMPS     |      |       |        |                  |         |                 |      |

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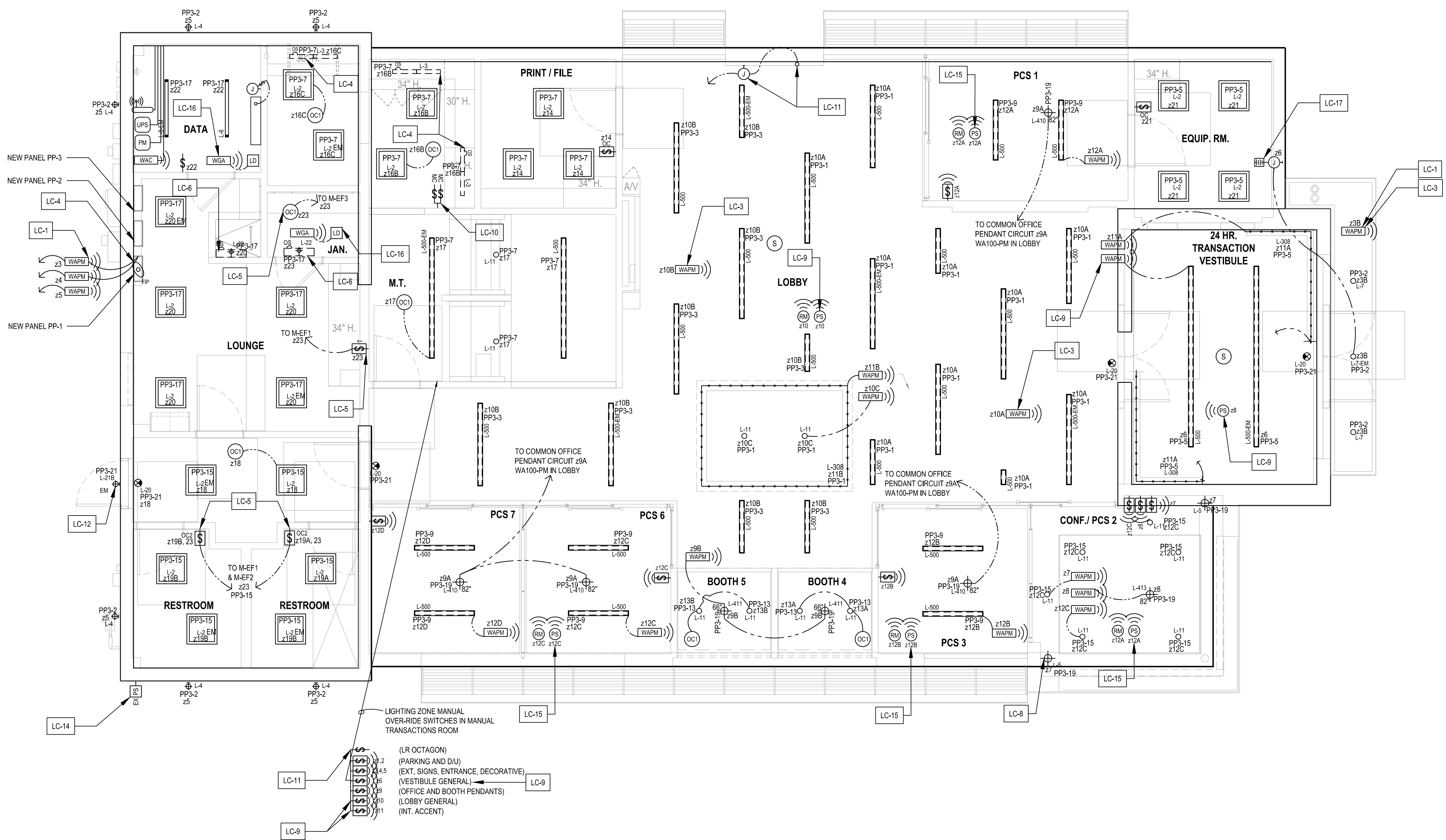


PRYOR & LOWENSTEIN  
PROTOTYPE VERSION 20.4

CONTENTS  
SITE PLAN & PANEL SCHEDULES

02/04/2022  
SHEET

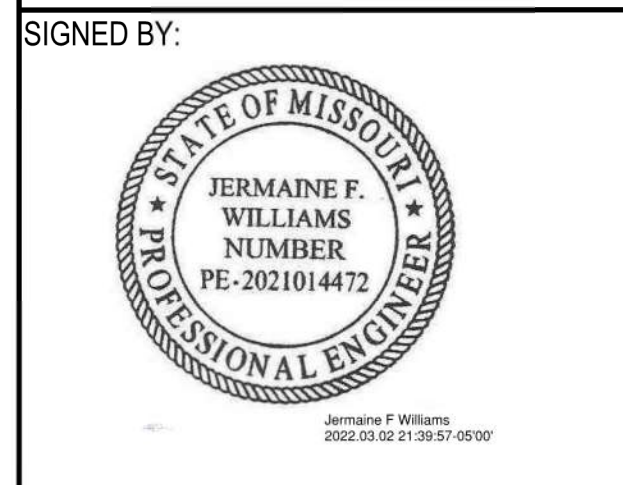
**E-1**



| LIGHTING CONTROL NOTES |   |
|------------------------|---|
| LC-1                   | EXT. BUILDING AND SITE LIGHTING CONTROLLED BY DAINTREE WA100-PM INSTALLED AT SWITCH LEG OR CIRCUIT HEAD. IF TWO-POLE, PROVIDE AUX. RELAY TO CONTROL SECOND LINE.  |
| LC-3                   | PROVIDE MULTIPLE WIRELESS ADAPTERS WHERE CIRCUIT CURRENT OR NUMBER OF FIXTURES EXCEED THE MAXIMUM PERMITTED FOR A SINGLE ADAPTER. DO NOT COMBINE MULTIPLE FIXTURE TYPES ON A SINGLE ADAPTER.  |
| LC-4                   | INSTALL ONE FLEXIBLE CT PER PHASE OF MAINS POWER- WIRE EACH TO POWER METER LOCATED IN DATA ROOM.  |
| LC-5                   | REFER TO 3/E2 EXHAUST FAN CONTROL DIAGRAM FOR DUAL RELAY OCC. SENSOR WIRING. WIRE ONE RELAY FOR ROOM LIGHTING CONTROL. WIRE SECOND RELAY IN PARALLEL WITH RESTROOM AND JANITOR CLOSET OCC. SENSORS AND LOUNGE TIMER SWITCH FOR EXHAUST FAN CONTROL.   |
| LC-6                   | FIXTURES WITH INTEGRAL OCC. SENSORS DO NOT REQUIRE SEPARATE CONTROLS.   |
| LC-8                   | PAIR LOW-VOLTAGE CEILING-MOUNTED ACCENT LIGHT FIXTURES IN FLUSH FIXTURE BOX- WIRE TO REMOTE DRIVER AND WAPM CONCEALED ABOVE CEILING.  |
| LC-9                   | PHOTOSENSOR AND AUTO. DIMMING CONTROL OF LOBBY GENERAL LIGHT FIXT. (ZONE 6) AND VESTIBULE LIGHT FIXT. (ZONE 6) AND OTHER ZONES AS SPECIFIED BY CODE. TO BE PROVIDED ONLY WHEN DAYLIGHT HARVESTING OR SIMILAR AUTO. DIMMING CONTROL REQUIREMENTS ARE ENFORCED BY AN AUTHORITY HAVING JURISDICTION. WHERE NOT REQUIRED, OMIT PHOTOSENSORS, AUTO. DIMMING, AND BMS CONTROL, AND PROVIDE LINE-VOLTAGE MANUAL SWITCH AT SWITCH BANK AT NEAR TELLER LINE. |
| LC-10                  | DRIVE-UP LANE STATUS CONTROL SWITCHES; NOT WITHIN B.M.S. SCOPE  |
| LC-11                  | SIGNAGE ELECTRICAL CONNECTION- PROVIDE J-BOX ABOVE CEILING WITH MULTIPLE FLEXIBLE CONDUIT TERMINATIONS IN WALL BELOW FOR OWNER'S SIGN- REFER TO SIGNAGE VENDOR'S SHOP DWGS. FOR EXACT TERMINATION LOCATIONS. CIRCUIT TO SPOT WALL SWITCH IN MANUAL TRANSACTIONS AREA.   |
| LC-12                  | UNSWITCHED EXTERIOR EGRESS LIGHT FIXTURE WITH PHOTOSENSOR AND STANDBY BATTERY POWER   |
| LC-14                  | REFER TO SHEET E6, FIGURE 7 FOR WIRING DETAIL- WIRE TO NEAREST WA100-PM- MAY BE AT ELECTRICAL PANEL   |
| LC-15                  | PHOTOSENSOR AND AUTO. DIMMING CONTROL OF OFFICE AND CONFERENCE GENERAL LIGHTING (ZONES 12A,B,C...) TO BE PROVIDED ONLY WHEN DAYLIGHT HARVESTING OR SIMILAR AUTO. DIMMING CONTROL REQUIREMENTS ARE ENFORCED BY AN AUTHORITY HAVING JURISDICTION. WHERE NOT REQUIRED, OMIT PHOTOSENSORS AND AUTO. DIMMING.  |
| LC-16                  | PROVIDE LEAK DETECTOR AT FLOOR AT ALL WATER HEATERS, JANITOR SINKS, AND DATA ROOMS  |
| LC-17                  | REMOTE EMERGENCY BATTERY PACK AS REQD.  |

**1** LIGHTING PLAN  
E-2 3/16" = 1'-0"

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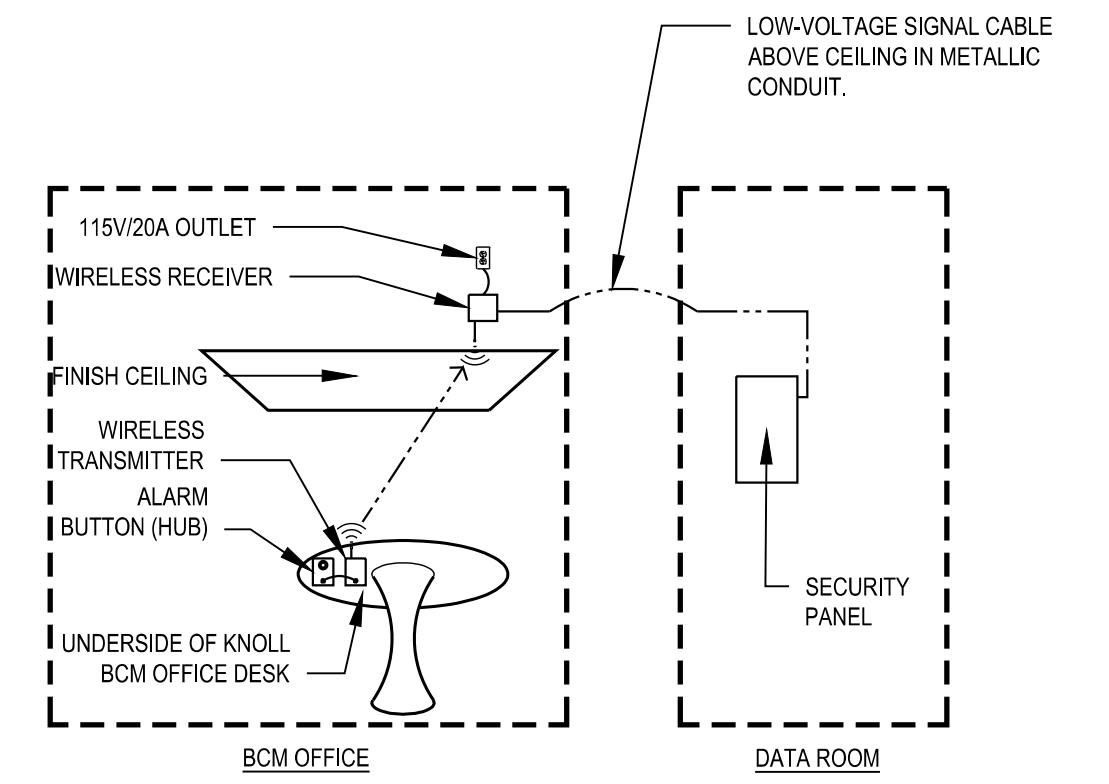
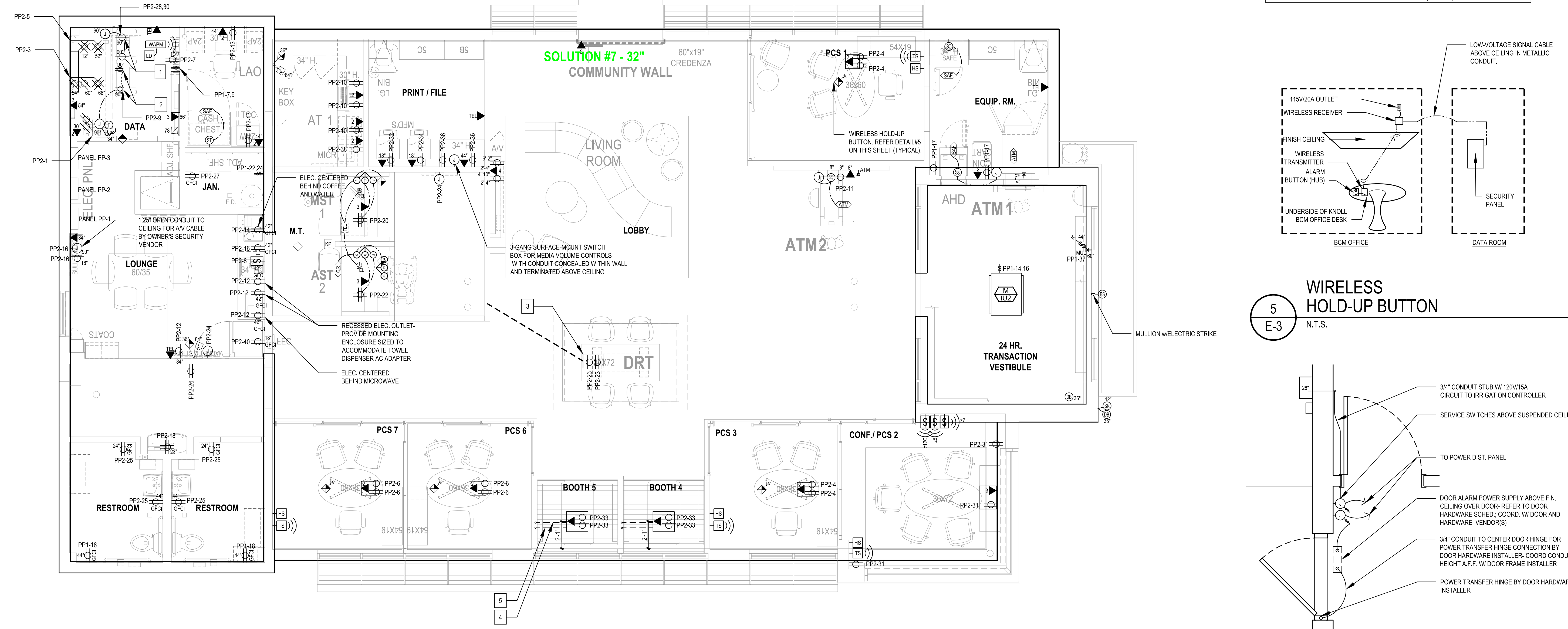
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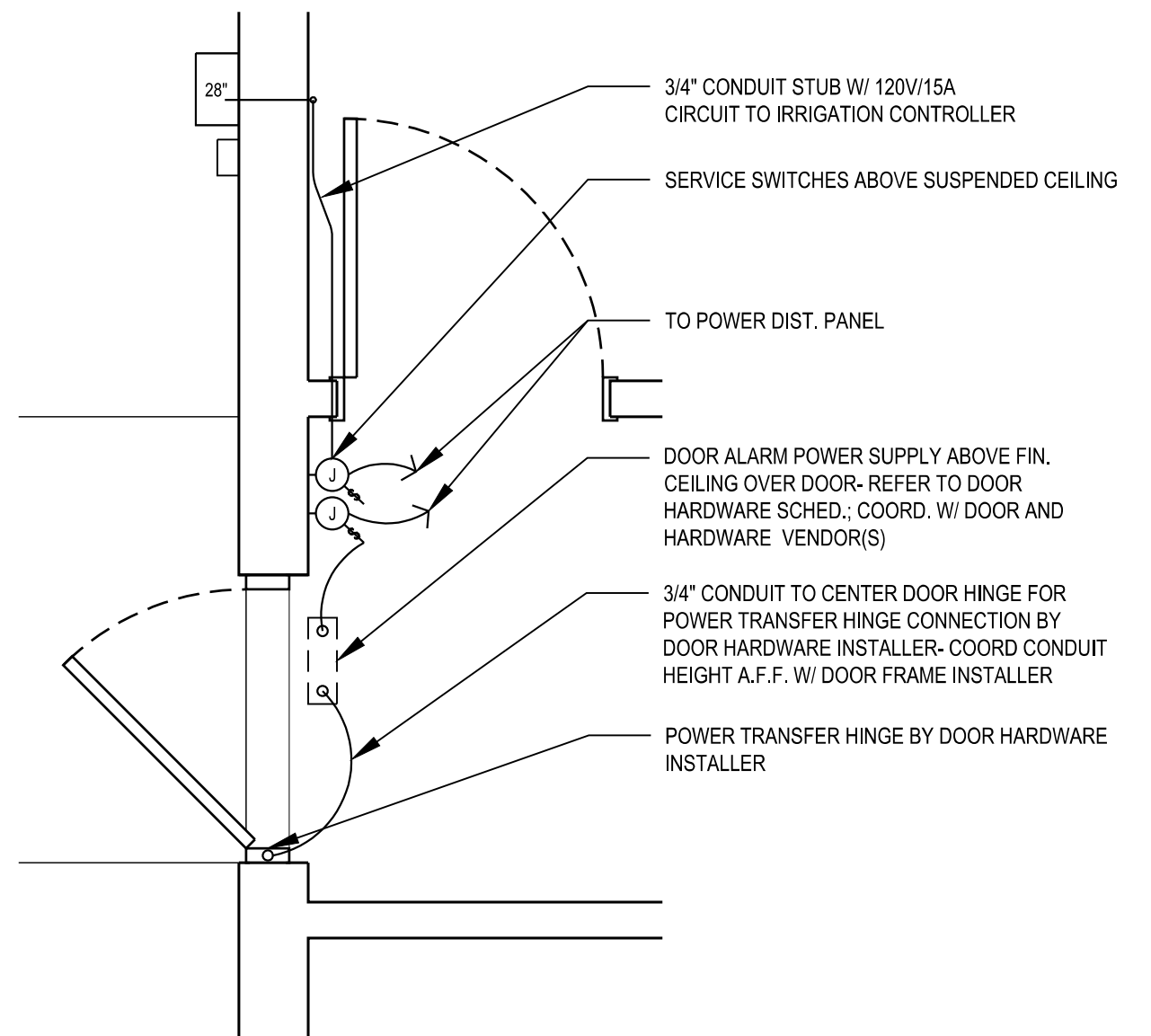
|               |            |
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| LIGHTING PLAN | 02/04/2022 |
| SHEET         | E-2        |



- KEY NOTES:
- 2) DEDICATED 208V/30A RECEPTACLES- TWIST-LOCK, NEMA L14-30.
  - (2) DEDICATED 120V/20A RECEPTACLES- NEMA 5-20R
  - HUBBEL #BA423341 CAST IRON ELEC. FLOOR BOX WITH TWO #5A3826 COVER PLATES
    - ONE 1" OPEN CONDUIT TO NEAREST ADJACENT ELEC. DISTRIBUTION J-BOX
    - ONE 1" OPEN CONDUIT TO NEAREST ADJACENT WALL, ROUTED TO EMPTY J-BOX CONCEALED ABOVE FINISHED CEILING AND LABELED "FUTURE DRT DATA/SECURITY".
  - 3/4" IN-SLAB ELEC. CONDUIT (TYPICAL).
  - 1" IN-SLAB CONDUIT TO ADJACENT WALL TERMINATED IN JUNCTION BOX ABOVE CEILING FOR DATA CABLE BY OWNER'S VENDOR (TYPICAL).

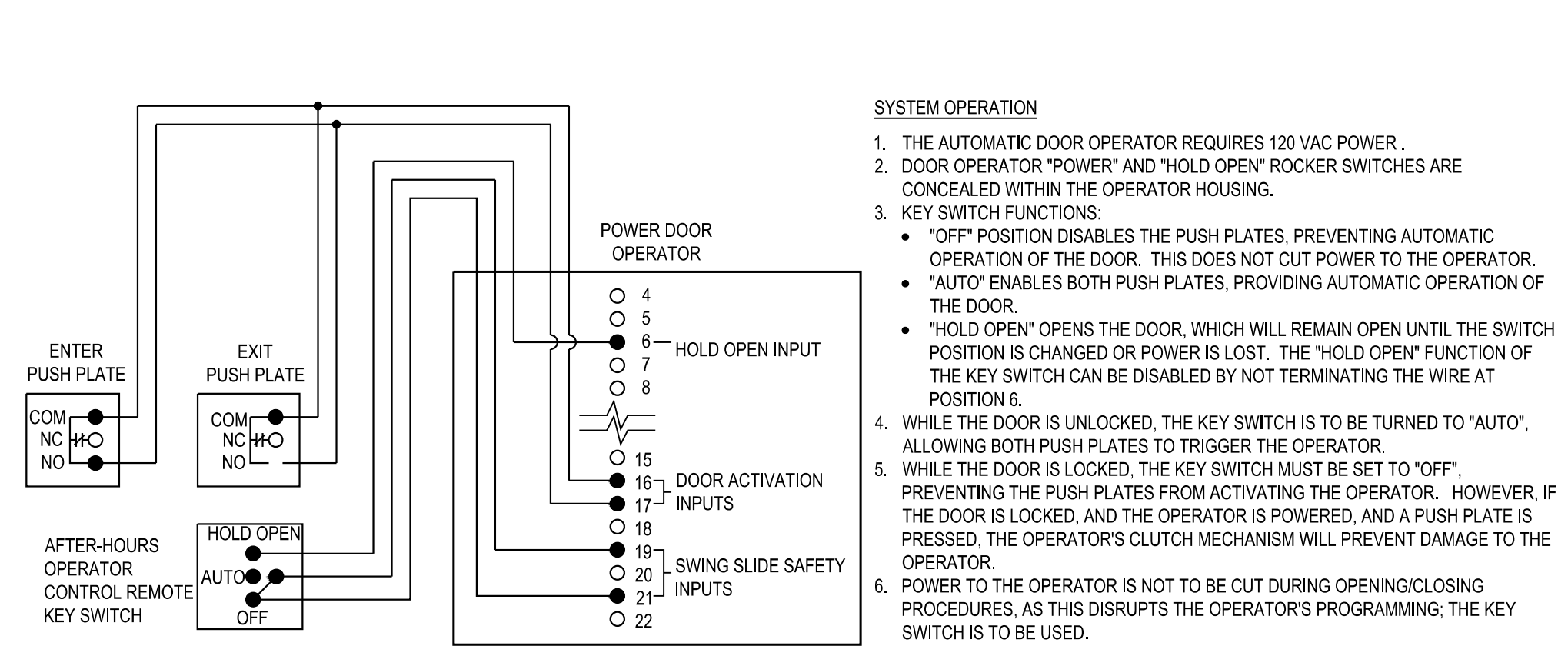


5 WIRELESS HOLD-UP BUTTON  
N.T.S.

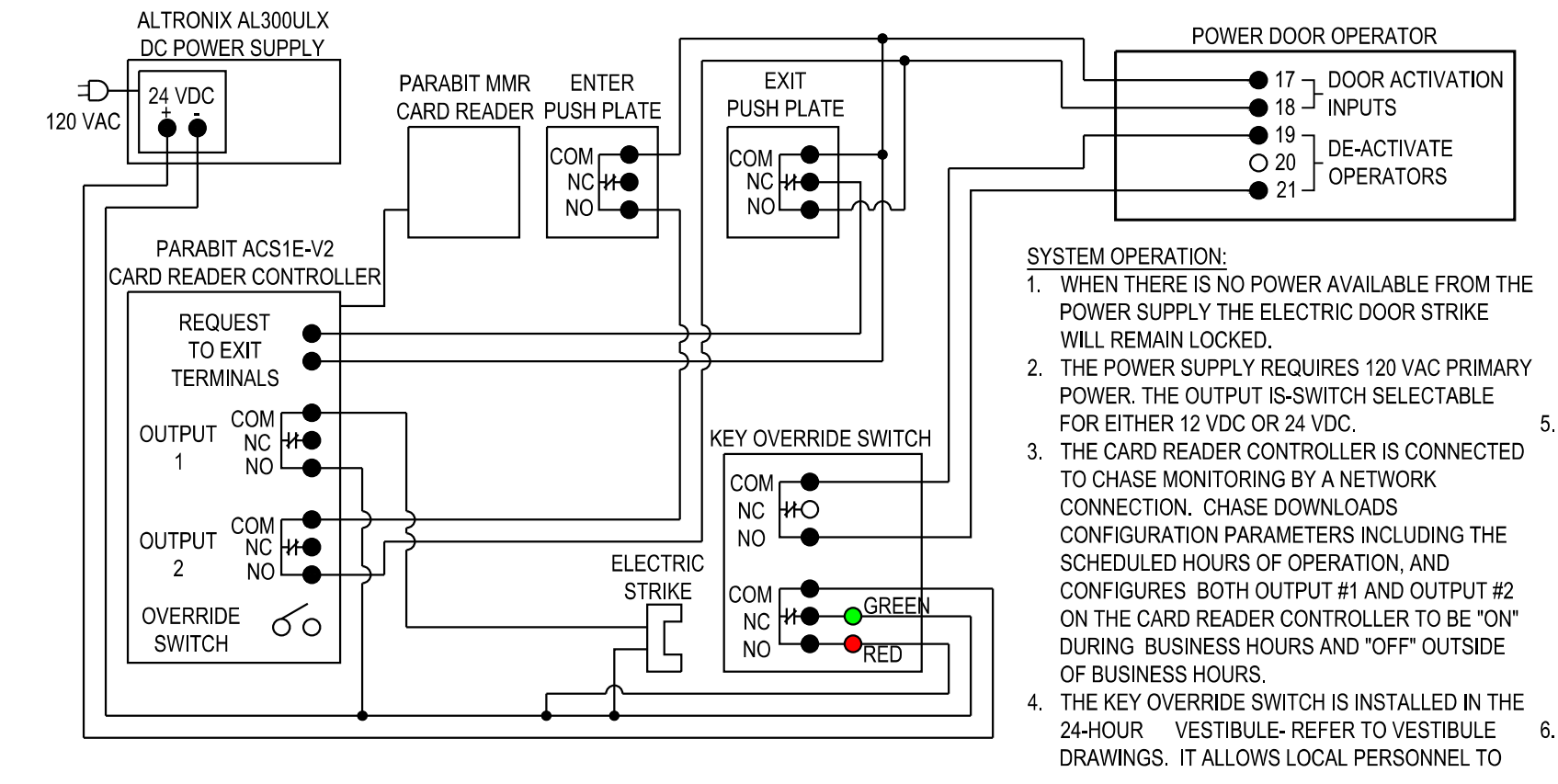


4 TYP. DOOR ALARM AND IRRIGATION POWER SUPPLIER  
N.T.S.

1 POWER PLAN  
1/4" = 1'-0"



3 AUTOMATIC VESTIBULE DOOR CONTROL DIAGRAM  
N.T.S.



2 AUTOMATIC ENTRANCE DOOR CONTROL DIAGRAM  
N.T.S.

PREPARED BY:  
**EBI Consulting**  
ENVIRO BUSINESS, INC.  
21 B Street | Burlington, MA 01803  
Tel: (81) 273-2500 | www.ebiconsulting.com

SIGNED BY:  
STATE OF MISSOURI  
JERMAINE F. WILLIAMS  
NUMBER PE-2021014472  
PROFESSIONAL ENGINEER

PRYOR ROAD & LOWENSTEIN DRIVE  
908 NW PRYOR ROAD  
LEE'S SUMMIT, MO 64081

EBI JOB #412100090

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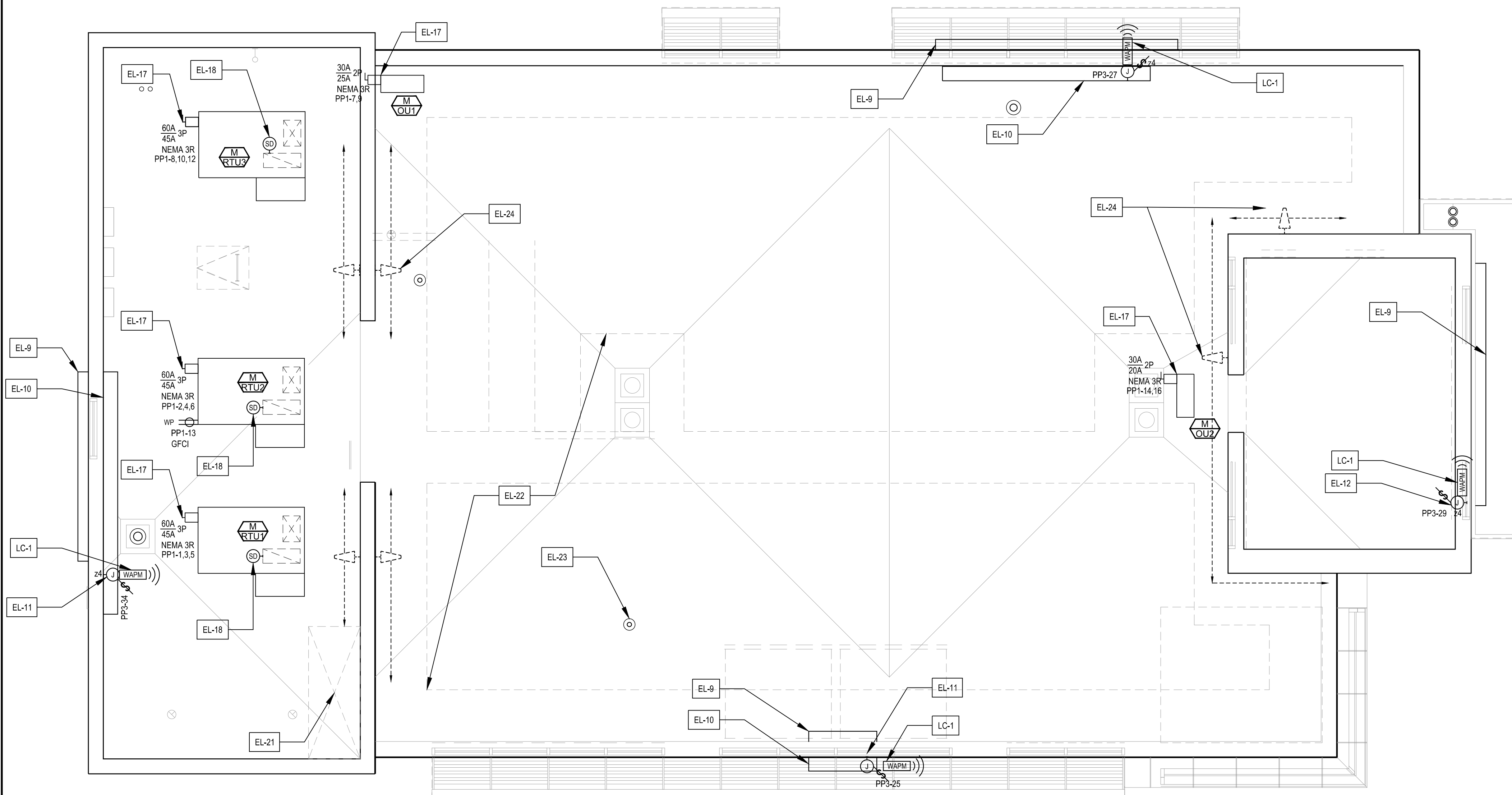


PRYOR & LOWENSTEIN  
PROTOTYPE VERSION 20.4

CONTENTS  
POWER PLAN

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SHEET

E-3



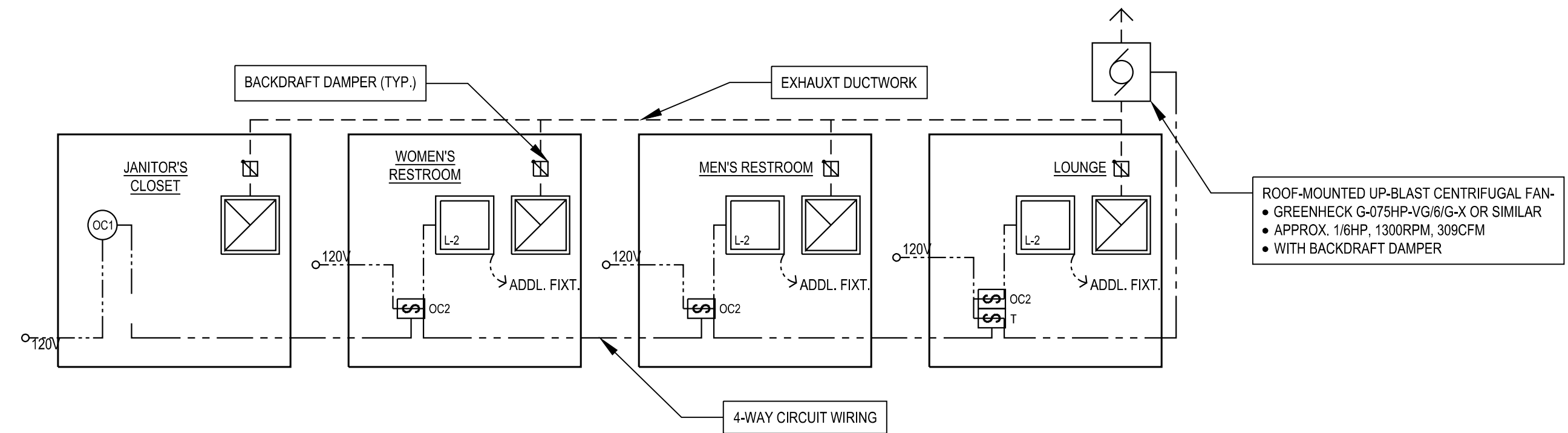
**ELECTRICAL PLAN NOTES**

|       |   |
|-------|---|
| EL-9  | LIGHTED SIGN BY OWNER'S SIGNAGE VENDOR (N.I.C.)- COORDINATE W/ VENDOR TO PROVIDE REQUIRED POWER AND CONTROL CIRCUITS- FINAL CONNECTIONS BY OWNER'S SIGNAGE VENDOR.      |
| EL-10 | SHEET METAL ENCLOSURE BY OWNER'S SIGNAGE VENDOR (N.I.C.).   |
| EL-11 | NEMA 3R EXTERIOR JUNCTION BOX WITH DISCONNECT SWITCH SURFACE-MOUNTED TO BACKSIDE OF PARAPET WALL- COORDINATE FINAL LOCATION WITH OWNER'S SIGNAGE VENDOR.                |
| EL-12 | INTERIOR JUNCTION BOX WITH DISCONNECT SWITCH-MOUNTED TO INSIDE FACE OF EXTERIOR WALL ABOVE CEILING- COORDINATE FINAL LOCATION WITH OWNER'S SIGNAGE VENDOR.              |
| EL-17 | EXTERIOR EQUIPMENT-MOUNTED DISCONNECT SWITCH- COORDINATE FINAL LOCATION AND WIRING REQUIREMENTS WITH MECHANICAL UNIT INSTALLER.   |
| EL-18 | IN-DUCT SMOKE DETECTOR- COORDINATE WITH MECHANICAL UNIT INSTALLER.  |
| EL-21 | PREFERRED FUTURE PHOTOVOLTAIC EQUIPMENT LOCATION- REFER TO ARCHITECTURAL ROOF PLAN.   |
| EL-22 | FUTURE PHOTOVOLTAIC PANEL LOCATION- REFER TO ARCHITECTURAL ROOF PLAN.   |
| EL-23 | CELLULAR TELECOM ANTENNA MAST- GROUND 1" MIN. RIGID METALLIC CONDUIT WITH SERVICE MAST HEAD OR SIMILAR WEATHER-TIGHT CAP, ROUTED TO DATA ROOM CEILING FOR FUTURE CABLE. |
| EL-24 | PREFERRED FUTURE CELLULAR TELECOM ANTENNA BY OWNER'S VENDOR- G.C. TO COORDINATE LOCATION TO ELIMINATE VISIBILITY OF ANTENNA FROM WITHIN THE PROPERTY LINES.             |

**LIGHTING CONTROL NOTES**

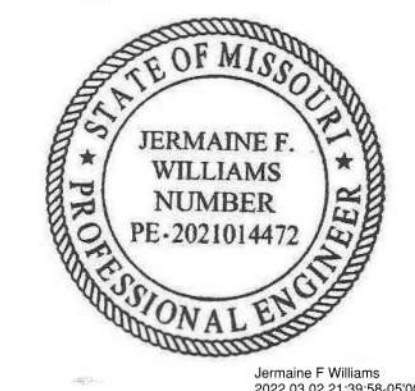
|      |  |
|------|--|
| LC-1 | EXT. BUILDING AND SITE LIGHTING CONTROLLED BY DAINTREE WA100-PM INSTALLED AT SWITCH LEG OR CIRCUIT HEAD. IF TWO-POLE, PROVIDE AUX. RELAY TO CONTROL SECOND LINE. |
|------|--|

1 ROOF POWER PLAN  
E-4 3/16" = 1'-0"



2 EXHAUST FAN CONTROL DIAGRAM  
E-4 N.T.S.

PREPARED BY:  
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EBI JOB #4121000090

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PRYOR & LOWENSTEIN  
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ROOF POWER PLAN

02/04/2022  
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**E-4**

**BMS LIGHTING AND POWER CONTROL AND SENSOR NOTES**

- COORDINATION WITH THE BMS VENDOR IS REQUIRED. THE ARCHITECT / ENGINEER OF RECORD SHALL ADVISE THE VENDOR 30 DAYS IN ADVANCE OF THE BID DATE THAT PROJECT DESIGN HAS COMMENCED. SUBMITTAL FOR VENDOR REVIEW AND COORDINATION MUST BE EXECUTED WITH ADEQUATE TIME TO ALLOW COORDINATION AND ADJUSTMENTS BETWEEN THE ARCHITECT, MECHANICAL ENGINEER, AND ELECTRICAL ENGINEER BEFORE BID.
- WHERE REQUIRED BY AUTHORITIES HAVING JURISDICTION, PROVIDE CONTROL DEVICES AND CIRCUITING AS REQUIRED TO COMPLY WITH ENERGY EFFICIENCY CODES (ONLY WHERE APPLICABLE).
- DESIGNER SHALL CLEARLY INDICATE IN CONSTRUCTION DOCUMENTS THAT THE WIRELESS DEVICE CONTROLS REPLACE TYPICAL HARDWIRED SWITCHING AND WIRING REQUIREMENTS, AND THAT THE CONDUIT SYSTEM IS NOT REQUIRED FOR THE CONTROL DEVICES ASSOCIATED WITH THE BMS EXCEPT AS NOTED.
- ZONE ZS FOR EXTERIOR-FACING INTERIOR SIGNAGE NOT PROVIDED WITH THIS PLAN, BUT WOULD BE REQUIRED FOR WALL-WASH RECESSED CANALS AT SIGNAGE. ILLUMINATED LETTER SETS, ETC.
- EMERGENCY LIGHT FIXTURES WITH BATTERY PACKS ARE NOT INDICATED FOR SEPARATE ZONE CONTROL, BUT SHALL BE PROVIDED WITH CONTROL DEVICES AS REQUIRED TO SYNCHRONIZE FIXTURE SWITCHING WITH OTHER FIXTURES WITHIN THE SPECIFIED ZONE.
- FIXTURES WITH INTEGRAL OCCUPANCY SENSORS (UNDERCABINET, ETC.) DO NOT REQUIRE ZONE CONTROL SWITCHING.
- EXIT LIGHT FIXTURES ARE EXCLUDED FROM BMS ZONE CONTROL. ROOF CENTRIFUGAL EXHAUST FAN IS NOT CONTROLLED BY BMS. REFER TO DETAIL 3E2, DESIGN-INTENT EXHAUST FAN CONTROL DIAGRAM FOR HARDWIRED LINE-VOLTAGE CONTROL REQUIREMENTS.
- LARGE FIXTURE GROUPS TAGGED WITH A COMMON ZONE, SUCH AS THE SITE AREA LIGHT FIXTURES OR LOBBY TRIFTERS, ARE TO BE CONTROLLED SIMULTANEOUSLY. CONTROL, SUB-ZONES ARE TO BE PROVIDED AND CONTROLLED BY RELAY CIRCUITS AS DETERMINED BY THE MAXIMUM NUMBER OF FIXTURES PERMITTED ON A SINGLE CIRCUIT.
- REFER TO SHEET M1 FOR MECHANICAL EQUIPMENT REPORTING AND CONTROL DEVICES.
- LIGHTING AND SIGNAGE ZONE TIMER / PHOTO CELL PROGRAMS SHALL BE SET PER THE BMS LIGHTING CONTROL SCHEDULE BY THE CHASE FACILITY MANAGER THROUGH THE REMOTE CONTROLSCOPE / ALLSITES INTERFACE.
- MULTI-POLE CONTACTORS AND RELAYS SHALL BE PROVIDED AS REQUIRED BY THE ELECTRICIAN TO EXECUTE THE DESIGN-INTENT CONTROL CIRCUITING INDICATED IN PLAN.
- CONTROLLED OUTLETS TO BE PROVIDED ONLY TO THE MINIMUM EXTENT REQUIRED BY APPLICABLE ENERGY CODES. CONTROL SHALL BE PROVIDED BY NEAREST OCCUPANCY SENSOR. OFFICES, AND SIMILAR SPACES SHALL RECEIVE A SINGLE CONTROLLED DUPLEX OUTLET OVER THE DESK. CONFERENCE ROOMS SHALL RECEIVE A SINGLE CONTROLLED DUPLEX WALL OUTLET. ALL LOBBY AND PRINT ROOM CONVENIENCE RECEPTACLES (NOT ADJACENT TO EQUIPMENT) SHALL BE SPLIT-WIRED TO THE NEAREST OCCUPANCY SENSOR.
- PROVIDE ONE LEAK DETECTOR IN EACH ROOM WITH A WATER HEATER, SUBJECT TO EPCOR OR SOLENOID VALVE AND/OR CONCRETE PUMP (IF REQUIRED).
- PROVIDE ONE TEMPERATURE SENSOR IN EACH ROOM WITH ATM OR SIMILAR TRANSDUCER EQUIPMENT, EXCEPT THE LOBBY OR ANY SIMILAR OPEN SPACE. MECHANICAL PLAN SUPERSEDES.
- CONTROL AND SENSOR DEVICES MUST NOT BE PLACED ON ANY WALL DESIGNATED FOR AN ACCENT FINISH. DEVICES ARE TO BE PLACED AS NEAR THE ENDS OF WALLS AS POSSIBLE, SO AS NOT TO INTERFERE WITH MARKETING MATERIAL POSITIONING.
- LANDSCAPE IRRIGATION CONTROLLER SHALL BE COMPATIBLE WITH THE BMS SYSTEM, AND BE PROVIDED WITH IP67 CONNECTIVITY. COORDINATE CONTROLLER SPECIFICATION WITH DAINTREE AND LANDSCAPE IRRIGATION SYSTEM VENDOR.
- THE AREA(S) SUBMITTED TO THE BMS VENDOR SHALL BE SUBJECT TO ADJUSTMENT TO COMPLY WITH LOCAL CODE, WHERE DIMMING, CEILING-MOUNTED SWITCH-ON VACANCY-OFF, OR PLUG LOAD CONTROLS ARE REQUIRED. DAINTREE CONTROLS SHALL BE USED, WHERE WALL-MOUNTED SWITCH-ON / VACANCY-OFF CONTROLS ARE REQUIRED. LINE VOLTAGE CONTROLS MAY BE USED WHEN APPLICABLE.
- SUBSTITUTIONS FOR THE SPECIFIED CONTROLS BY THE AEA, EAR OR G.C. ARE NOT PERMITTED.
- ALL CONCEALED SENSORS, ADAPTERS, AND OTHER COMPONENTS SHALL BE PLACED ABOVE ACCESSIBLE CEILING PANELS.
- ANY DESIRABLE POSITIONING OF BMS DEVICES THAT DEVIATES FROM THE LOCATION ON THE ENGINEERING OR INSTALLATION DRAWINGS MUST BE DOCUMENTED BY THE ELECTRICIAN AND PROVIDED TO THE AOR FOR INCLUSION IN THE AS-BUILT DRAWINGS.
- BATTERY-POWERED DEVICES ARE NOT PERMITTED TO BE INSTALLED IN CONCEALED LOCATIONS, INCLUDING ABOVE ACCESSIBLE CEILING PANELS, INCLUDING ABOVE ACCESSIBLE CEILING PANELS, INCLUDING ABOVE CONCEALED LOCATIONS MUST BE HARDWIRED.
- ALL DEVICES CONCEALED ABOVE CEILING MUST BE POSITIONED SO AS TO BE VISIBLE FROM BELOW.

**BUILDING ENERGY MANAGEMENT SYSTEM (BMS) GENERAL INSTALLATION NOTES**

- INSTALLER IS RESPONSIBLE FOR THE FINAL LOCATION OF ALL SENSORS, SWITCHES AND CONTROLLERS AND TO CONFORM WITH THE MANUFACTURER'S RECOMMENDATIONS AND MEET THE FUNCTIONAL REQUIREMENTS OF THE SYSTEM.
- CONTROLSCOPE UTILIZES DISTRIBUTED CONTROL, FOR ON/OFF AND DIM STATE. EXISTING RELAY PANELS AND LINE-SIDE SWITCHES MUST BE OVERRIDDEN OR REMOVED. ALL WIRELESS ADAPTERS MUST BE PROVIDED WITH UNINTERRUPTED/UNSWITCHED POWER.
- DURING INSTALLATION THE LAST 4 DIGITS OF THE IEEE ADDRESS FOR EACH WIRELESS COMPONENT MUST BE RECORDED ON THE SHOP DRAWING SET CORRESPONDING TO THE LOCATION OF THE COMPONENT.
- DURING WIRELESS ADAPTER INSTALLATION FOLLOW THESE STEPS AS DEFINED IN THE DEVICE INSTALLATION GUIDE IN THE FOLLOWING ORDER:
  - CONFIRM WIRELESS ADAPTER DIP SWITCHES ARE SET CORRECTLY.
  - RESET ADAPTER (ALL ADAPTERS)
  - PERFORM PROPER TEST SUITE.
  - INSTALLER MUST BECOME FAMILIAR WITH THE PUBLISHED INSTALLATION GUIDES FOR THE PRODUCTS IN THE PROJECT SCOPE. DAINTREE INSTALLATION GUIDES CAN BE FOUND AT: <https://products.currentbyge.com/control-systems/daintree-enterprise-wireless-controls/>
  - DO NOT INSTALL BATTERIES IN WIRELESS DEVICES PRIOR TO APPROVAL FROM GE'S COMMISSIONING LIASON. INSTALLING BATTERIES MORE THAN 10 DAYS PRIOR TO COMMISSIONING CAN RESULT IN PREMATURE BATTERY FAILURE.
  - TO AVOID FALSE TRIGGERS FROM OCCUPANTS WALKING PAST OPEN DOORS, CARE SHOULD BE TAKEN TO PLACE SENSORS WITH NO OR MINIMAL VIEWING ANGLE THROUGH DOORWAY. IF THE OBSTACLE BETWEEN THE DOORWAY AND THE CENTER OF THE ROOM IS LESS THAN 12 FEET, IT IS ADVISABLE TO MOVE THE SENSOR TOWARD THE CORNER OF THE ROOM TO REDUCE THE VIEWING ANGLE THROUGH THE DOORWAY.

**DAINTREE MECHANICAL CONTROL**

- ALL WIRELESS ADAPTERS MUST BE PROVIDED WITH UNINTERRUPTED/UNSWITCHED POWER. WSA10 WIRELESS SENSOR ADAPTERS REQUIRE 24V POWER.
- DURING INSTALLATION THE LAST 4 DIGITS OF THE IEEE ADDRESS FOR EACH WIRELESS COMPONENT MUST BE RECORDED ON THE SHOP DRAWING SET CORRESPONDING TO THE LOCATION OF THE COMPONENT.
- FOR ANY SENSORS ATTACHED TO A WIRELESS SENSOR ADAPTER (WSA10) THE LAST 4 DIGITS OF THE IEEE ADDRESS FOR THE RESPECTIVE WSA10 MUST ALSO BE RECORDED PER SENSOR.
- DURING WIRELESS ADAPTER INSTALLATION FOLLOW THESE STEPS AS DEFINED IN THE DEVICE INSTALLATION GUIDE IN THE FOLLOWING ORDER:
  - CONFIRM WIRELESS ADAPTER DIP SWITCHES ARE SET CORRECTLY.
  - RESET ADAPTER (ALL ADAPTERS)
  - PERFORM PROPER TEST SUITE.
  - INSTALLER MUST BECOME FAMILIAR WITH THE PUBLISHED INSTALLATION GUIDES FOR THE PRODUCTS IN THE PROJECT SCOPE. DAINTREE INSTALLATION GUIDES CAN BE FOUND AT: <https://products.currentbyge.com/control-systems/daintree-enterprise-wireless-controls/>
  - ELECTRICAL CONTRACTOR IS RESPONSIBLE FOR PROCUREMENT AND INSTALL OF DAINTREE AND RELATED COMPONENTS PERTAINING TO IT/DATA, LIGHTING, POWER AND HVAC.
  - THE IOT CONTROLLER AND ASSOCIATED BACNET HARDWARE IS REQUIRED TO PROVIDE CONTROL FUNCTIONS TO VAV, VVT, OR SIMILAR MULTI-ZONED HVAC SYSTEMS. BACNET HARDWARE WILL BE INCLUDED IN THE BMS EQUIPMENT ORDER TO GE-CURRENT/DAINTREE, AND INSTALLED AND PHYSICALLY CONNECTED TO THE BMS UNDER THE GENERAL CONTRACT. INSTALLERS MAY CONTACT THEIR SYSTEM INTEGRATOR FOR INSTALLATION ASSISTANCE.
  - BIDDERS ARE TO INCLUDE BACNET HARDWARE & INSTALLATION IN THEIR BIDS.
    - THE INITIAL PROGRAMMING AND COMMISSIONING OF THE CARRIER I-VUE (OR SIMILAR TRANE OR OTHER MANUFACTURER'S SYSTEM) WILL BE PERFORMED BY THE GC'S HVAC TECHNICIAN.
    - POINT INTEGRATION SERVICE FOR THE BACNET HARDWARE WILL BE PERFORMED BY GE-CURRENT FOLLOWING HVAC EQUIPMENT AND CONTROLS COMMISSIONING. THIS MAY REQUIRE AN ON-SITE VISIT BY GE-CURRENT.

**CONTROLSCOPE COMMISSIONING**

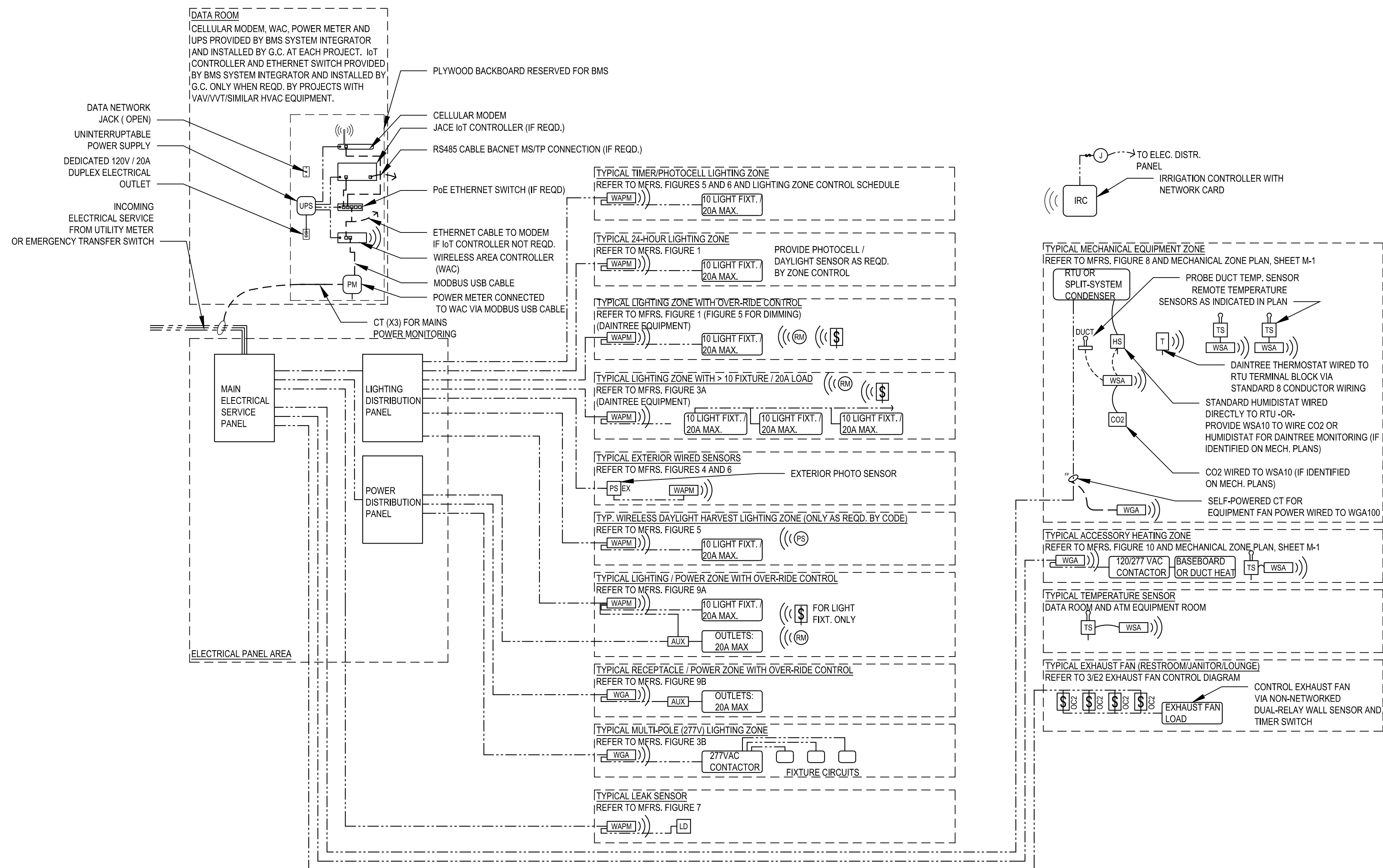
- CONTRACTOR IS RESPONSIBLE FOR CORRECT WIRING, TESTING, AND DOCUMENTATION OF ALL IEEE DEVICE ADDRESSES IN A FORMAT REQUIRED BY THE CONTROLS SUPPLIER.
- CONTRACTOR IS RESPONSIBLE FOR COORDINATING INSTALLATION AND COMMISSIONING EFFORTS WITH THE CONTROLS PROVIDER TO SATISFY THE CONSTRUCTION TIMELINE.
- CONTRACTOR IS RESPONSIBLE FOR PROVIDING FIELD LABOR ASSISTANCE TO FACILITATE THE COMMISSIONING EFFORT, INCLUDING BUT NOT LIMITED TO REPAIRING INCORRECT WIRING, LOCATING DEVICES WHERE THE ADDRESSES WERE NOT DOCUMENTED OR NOT LOCATED PROPERLY, AND RESETTING DEVICES.

**LIGHTING ZONE CONTROL SCHEDULE**

| ZONE        | LOCATION / ROOM / FUNCTION  | CONTROL FUNCTION |              |              |                       | REMARKS                |      |
|-------------|---|------------------|--------------|--------------|-----------------------|------------------------|------|
|             |   | ON               | OFF          | TYPE         | OVER-RIDE             |                        |      |
| 1           | DRIVE-UP CANOPY   | PHOTOCELL        | SCHEDULE     | DAINTREE     | SOFTWARE, WALL SWITCH | AT OR NEAR TELLER LINE | 4    |
| 2A, 2B...   | BUILDING AND POLE-MOUNT EXTERIOR AREA FIXTURES (SUB-ZONES AS REQUIRED)          | PHOTOCELL        | SCHEDULE     | DAINTREE     | SOFTWARE, WALL SWITCH | AT OR NEAR TELLER LINE | 4    |
| 3A, 3B...   | EXTERIOR ENTRANCE DOWNLIGHTS AND SITE MONUMENT / PYLON SIGNS                    | PHOTOCELL        | PHOTOCELL    | DAINTREE     | SOFTWARE, WALL SWITCH | AT OR NEAR TELLER LINE | 4    |
| 4           | EXTERIOR BUILDING SIGNAGE AND CANOPY SIGNAGE                                    | PHOTOCELL        | SCHEDULE     | DAINTREE     | SOFTWARE, WALL SWITCH | AT OR NEAR TELLER LINE | 4    |
| 5A, 5B      | EXTERIOR DECORATIVE AND WALL-WASH FIXTURES AND EXTERIOR-FACING INTERIOR SIGNAGE | SCHEDULE         | SCHEDULE     | DAINTREE     | SOFTWARE, WALL SWITCH | AT OR NEAR TELLER LINE | 4    |
| 6           | VESTIBULE (ALWAYS ON)   | NA               | NA           | DAINTREE     | SOFTWARE, WALL SWITCH | AT OR NEAR TELLER LINE | 1, 5 |
| 7           | CONFERENCE ROOM ACCENT  | SCHEDULE         | SCHEDULE     | DAINTREE     | SOFTWARE, WALL SWITCH | IN ROOM                |      |
| 8           | CONFERENCE ROOM PENDANT(S) (ALWAYS ON, WITH IN-ROOM OVER-RIDE)                  | SCHEDULE 50%     | SCHEDULE 10% | DAINTREE     | SOFTWARE, WALL DIMMER | IN ROOM                | 2    |
| 9           | PRIVATE OFFICE (PCS/CCS) AND BOOTH DESK PENDANTS (ALWAYS ON)                    | SCHEDULE 50%     | SCHEDULE 10% | DAINTREE     | SOFTWARE, WALL DIMMER | AT OR NEAR TELLER LINE | 2    |
| 10A, 10B... | LOBBY GENERAL (SUB-ZONES AS REQUIRED)   | SCHEDULE         | SCHEDULE     | DAINTREE     | SOFTWARE, WALL SWITCH | AT OR NEAR TELLER LINE | 1    |
| 11A, 11B... | VESTIBULE AND LOBBY ACCENT- COVE STRIPS, ETC. (ALWAYS ON)                       | NA               | NA           | DAINTREE     | SOFTWARE, WALL DIMMER | AT OR NEAR TELLER LINE |      |
| 12A, 12B... | OFFICE AND CONFERENCE GENERAL   | NA               | NA           | DAINTREE     | SOFTWARE, WALL DIMMER | IN ROOM                | 1    |
| 13A, 13B... | BOOTH GENERAL   | OCCUPANCY        | VACANCY      | LINE VOLTAGE | NONE                  | NA                     | 1    |
| 14          | PRINT / FILE  | OCCUPANCY        | VACANCY      | LINE VOLTAGE | NONE                  | NA                     | 3    |
| 15          | SDB CHEST AND VIEWING ROOMS AND SDB VAULTS                                      | OCCUPANCY        | VACANCY      | LINE VOLTAGE | NONE                  | NA                     |      |
| 16A, 16B... | BACK-OF-HOUSE WORK AREAS (LAO, CASH, AT, ATM, ETC.)                             | OCCUPANCY        | VACANCY      | LINE VOLTAGE | NONE                  | NA                     | 3    |
| 17          | MANUAL TRANSACTIONS (TELLER LINE)   | OCCUPANCY        | VACANCY      | LINE VOLTAGE | NONE                  | NA                     |      |
| 18          | SERVICE HALLWAYS  | OCCUPANCY        | VACANCY      | LINE VOLTAGE | NONE                  | NA                     |      |
| 19A, 19B... | RESTROOMS   | OCCUPANCY        | VACANCY      | LINE VOLTAGE | NONE                  | NA                     |      |
| 20          | LOUNGE  | OCCUPANCY        | VACANCY      | LINE VOLTAGE | NONE                  | NA                     | 3    |
| 21A, 21B    | UTILITY EXCEPT DATA (JANITOR, LADDER, ELEC., PLUMBING, SPRINKLER, ETC)          | OCCUPANCY        | VACANCY      | LINE VOLTAGE | NONE                  | NA                     | 6    |
| 22          | DATA  | MANUAL           | MANUAL       | LINE VOLTAGE | NONE                  | NA                     |      |
| 23          | RESTROOM / JANITOR / LOUNGE EXHAUST SYSTEM                                      | OCCUPANCY        | VACANCY      | LINE VOLTAGE | NONE                  | NA                     | 7    |

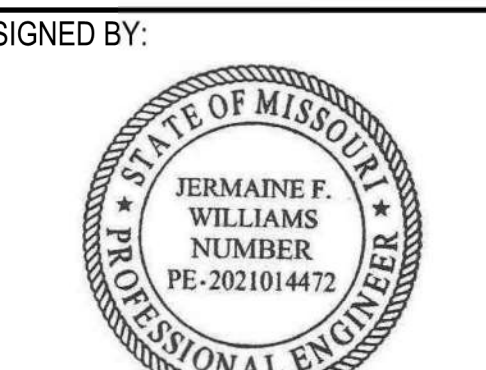
**REMARKS:**

- REFER TO LIGHTING CONTROL NOTE LC-15
- PROVIDE WIRELESS MANUAL DIMMER PROGRAMMED FOR 50% DIMMING DURING BRANCH HOURS AND 10% DIMMING AFTER BRANCH HOURS.
- AOR TO ADJUST CONTROL SPECIFICATION AS REQUIRED TO MEET CODES ENFORCED BY AUTHORITY HAVING JURISDICTION. WHERE SIMPLE OCCUPANCY/VACANCY SENSOR CONTROL IS REQUIRED, LINE VOLTAGE CONTROLS ARE PREFERRED.
- EXTERIOR SITE POLE, BUILDING-MOUNTED, AND SIGNAGE FIXTURES SHALL HAVE A WWD1 MASTER OVER-RIDE SWITCH LOCATED IN INTERIOR SWITCH BANK NEAR TELLER LINE CONTROLLED VIA WA100-PPM(S).
- WHERE LINE VOLTAGE CONTROLS ARE IMPLEMENTED IN LIEU OF DAINTREE CONTROLS, PROVIDE PILOT LIGHT SWITCH WHERE FIXTURES ARE NOT VISIBLE FROM THE SWITCH LOCATION.
- SWITCHING PREFERENCE FOR UTILITY SPACE LIGHTING (EXCEPT DATA) IS FOR FIXTURES WITH INTEGRAL OCCUPANCY SENSORS, AND TO ELIMINATE SWITCHING.
- 4-WAY OCCUPANCY SENSOR / TIMER SWITCH CIRCUIT- REFER TO 3/E2 DESIGN-INTENT EXHAUST FAN CONTROL DIAGRAM.



**1 E-5 BMS SCHEMATIC CONTROL DIAGRAM**  
3/8" = 1'-0"

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EBI JOB #412100090

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**PRYOR & LOWENSTEIN**  
PROTOTYPE VERSION 20.4

**CONTENTS**  
LIGHTING ZONE CONTROL  
SCHEDULE & BMS CONTROL  
DIAGRAM

02/04/2022  
SHEET



## COMcheck Software Version 4.1.5.3 Interior Lighting Compliance Certificate

**Project Information**  
 Energy Code: 2018 IECC  
 Project Title: JPM CHASE  
 Project Type: New Construction  
 Permit Date: TBD  
 Permit No: TBD

Construction Site: 908 NW PRYOR ROAD, LEE'S SUMMIT, MO 64081  
 Owner/Agent: JPM CHASE  
 Designer/Contractor: YAO AGBEVE, EBI CONSULTING, 21 B STREET, BURLINGTON, MA 01803

### Additional Efficiency Package(s)

Credits: 1.0 Required, 1.0 Proposed  
 Reduced Lighting Power, 1.0 credit

### Allowed Interior Lighting Power

| A Area Category       | B Floor Area (ft2) | C Allowed Watts / ft2 | D Allowed Watts (B X C) |
|-----------------------|--------------------|-----------------------|-------------------------|
| 1-Office              | 3030               | 0.71                  | 2154                    |
| Total Allowed Watts = |                    |                       | 2154                    |

### Proposed Interior Lighting Power

| A Fixture ID : Description / Lamp / Wattage Per Lamp / Ballast | B Lamps/ Fixture | C # of Fixtures | D Watt. | E (C X D) |
|--|------------------|-----------------|---------|-----------|
| 1-Office   |                  |                 |         |           |
| LED 1: L-500: LINEAR LED: Other:                               | 1                | 32              | 14      | 448       |
| LED 2: L-2: LED TROFFER: Other:                                | 1                | 22              | 34      | 748       |
| LED 3: L-11: DOWNLIGHT: Other:                                 | 1                | 14              | 14      | 196       |
| LED 4: L-113: PENDANT: Other:                                  | 1                | 1               | 12      | 12        |
| LED 5: L8: SURFACE-MOUNT: Other:                               | 1                | 2               | 27      | 54        |
| LED 6: L-411: PENDANT: Other:                                  | 1                | 2               | 12      | 24        |
| LED 7: L-410: PENDANT: Other:                                  | 1                | 4               | 40      | 160       |
| LED 8: L-5: PENDANT: Other:                                    | 1                | 2               | 6       | 12        |
| LED 9: L-3: UNDERCABINET: Other:                               | 1                | 2               | 7       | 14        |
| LED 10: L-308: LED STRIP: Other:                               | 1                | 1               | 192     | 192       |
| Total Proposed Watts =   |                  |                 | 1860    |           |

### Interior Lighting PASSES: Design 14% better than code

### Interior Lighting Compliance Statement

**Compliance Statement:** The proposed interior lighting design represented in this document is consistent with the building plans, specifications, and other calculations submitted with this permit application. The proposed interior lighting systems have been designed to meet the 2018 IECC requirements in COMcheck Version 4.1.5.3 and to comply with any applicable mandatory requirements listed in the Inspection Checklist.

Project Title: JPM CHASE Report date: 03/02/22  
 Data filename: W:\uston\AE\JPM Chase\Midwest- IL IN WI KY MI OH WV\4121000090- Pryor Rd and Lowenstein D Page 1 of 7  
 C60025810702\09 MEP (No-CAD)\01 ELEC\CALCS\PRYOR RD & LOWENSTEIN DR.cck

| Section # & Req.ID      | Rough-In Electrical Inspection  | Complies?   | Comments/Assumptions  |
|-------------------------|---|---|---|
| C405.2.2<br>2 [EL22]    | Spaces required to have light-reduction controls have a manual control that allows the occupant to reduce the connected lighting load in a reasonably uniform illumination pattern >= 50 percent.   | <input type="checkbox"/> Complies<br><input checked="" type="checkbox"/> Does Not<br><input type="checkbox"/> Not Observable<br><input type="checkbox"/> Not Applicable | REFER TO SHEETS E2 AND E5.  |
| C405.2.1<br>1 [EL18]    | Occupancy sensors installed in classrooms/meeting/training rooms, conference/meeting/multipurpose rooms, copy/print rooms, lounges/breakrooms, enclosed offices, open plan office areas, restrooms, storage rooms, locker rooms, warehouse storage areas, and other spaces <= 300 sqft that are enclosed by floor-to-ceiling height partitions. Reference section language C405.2.1.2 for control function in warehouses and section C405.2.1.3 for open plan office spaces.  | <input type="checkbox"/> Complies<br><input checked="" type="checkbox"/> Does Not<br><input type="checkbox"/> Not Observable<br><input type="checkbox"/> Not Applicable | REFER TO THE LIGHTING PLAN ON SHEET E2 AND THE SYMBOL LEGEND ON SHEET E0. |
| C405.2.1<br>2 [EL19]    | Occupancy sensors control function in warehouses: In warehouses, the lighting in aiseways and open areas is controlled with occupant sensors that automatically reduce lighting power by 50% or more when the areas are unoccupied. The occupant sensors control lighting in each aisleway independently and do not control lighting beyond the aisleway being controlled by the sensor.  | <input type="checkbox"/> Complies<br><input checked="" type="checkbox"/> Does Not<br><input type="checkbox"/> Not Observable<br><input type="checkbox"/> Not Applicable | NOT APPLICABLE TO THIS PROJECT.   |
| C405.2.1<br>3 [EL20]    | Occupant sensor control function in open plan office areas: Occupant sensor controls in open office spaces >= 300 sq.ft. have controls 1) configured so that general lighting can be controlled separately in control zones with floor areas <= 600 sq.ft. within the space, 2) automatically turn off general lighting in all control zones within 20 minutes after all occupants have left the space, 3) are configured so that general lighting power in each control zone is reduced by >= 80% of the full zone general lighting power within 20 minutes of all occupants leaving that control zone, and 4) are configured such that any daylight responsive control will activate space general lighting or control zone general lighting only when occupancy for the same area is detected. | <input type="checkbox"/> Complies<br><input checked="" type="checkbox"/> Does Not<br><input type="checkbox"/> Not Observable<br><input type="checkbox"/> Not Applicable | REFER TO THE LIGHTING PLAN ON SHEET E2 AND CONTROLS ON E5.                |
| C405.2.2<br>1, 2 [EL21] | Each area not served by occupancy sensors (per C405.2.1) have time-switch controls and functions detailed in sections C405.2.2.1 and C405.2.2.2.  | <input type="checkbox"/> Complies<br><input checked="" type="checkbox"/> Does Not<br><input type="checkbox"/> Not Observable<br><input type="checkbox"/> Not Applicable | REFER TO THE LIGHTING PLAN ON SHEET E2 AND CONTROLS ON E5.                |

1 High Impact (Tier 1) 2 Medium Impact (Tier 2) 3 Low Impact (Tier 3)  
 Project Title: JPM CHASE Report date: 03/02/22  
 Data filename: W:\uston\AE\JPM Chase\Midwest- IL IN WI KY MI OH WV\4121000090- Pryor Rd and Lowenstein D Page 4 of 7  
 C60025810702\09 MEP (No-CAD)\01 ELEC\CALCS\PRYOR RD & LOWENSTEIN DR.cck

YAO AGBEVE - DESIGNER Signature Date 03/02/2022

Project Title: JPM CHASE Report date: 03/02/22  
 Data filename: W:\uston\AE\JPM Chase\Midwest- IL IN WI KY MI OH WV\4121000090- Pryor Rd and Lowenstein D Page 2 of 7  
 C60025810702\09 MEP (No-CAD)\01 ELEC\CALCS\PRYOR RD & LOWENSTEIN DR.cck

| Section # & Req.ID      | Rough-In Electrical Inspection   | Complies?   | Comments/Assumptions   |
|-------------------------|--|---|--|
| C405.2.3<br>1, 2 [EL23] | Daylight zones provided with individual controls that control the lights independent of general area lighting. See code section C405.2.3 Daylight-responsive controls for applicable spaces, C405.2.3.1 Daylight responsive control function and section C405.2.3.2 Sidelit zone.                          | <input type="checkbox"/> Complies<br><input checked="" type="checkbox"/> Does Not<br><input type="checkbox"/> Not Observable<br><input type="checkbox"/> Not Applicable | REFER TO THE LIGHTING PLAN ON SHEET E2 AND CONTROLS ON E5.                       |
| C405.2.4 [EL26]         | Separate lighting control devices for specific uses installed per approved lighting plans.   | <input type="checkbox"/> Complies<br><input checked="" type="checkbox"/> Does Not<br><input type="checkbox"/> Not Observable<br><input type="checkbox"/> Not Applicable | REFER TO THE LIGHTING PLAN ON SHEET E2.  |
| C405.2.4 [EL27]         | Additional interior lighting power allowed for special functions per the approved lighting plans and is automatically controlled and separated from general lighting.  | <input type="checkbox"/> Complies<br><input checked="" type="checkbox"/> Does Not<br><input type="checkbox"/> Not Observable<br><input type="checkbox"/> Not Applicable | NOT APPLICABLE TO THIS PROJECT.  |
| C405.3 [EL6]            | Exit signs do not exceed 5 watts per face.   | <input type="checkbox"/> Complies<br><input checked="" type="checkbox"/> Does Not<br><input type="checkbox"/> Not Observable<br><input type="checkbox"/> Not Applicable | REFER TO THE EXIT SIGN DESCRIPTION IN THE LIGHTING FIXTURE SCHEDULE ON SHEET E0. |
| C405.6 [EL26]           | Low-voltage dry-type distribution electric transformers meet the minimum efficiency requirements of Table C405.6.  | <input type="checkbox"/> Complies<br><input checked="" type="checkbox"/> Does Not<br><input type="checkbox"/> Not Observable<br><input type="checkbox"/> Not Applicable | NOT APPLICABLE TO THIS PROJECT.  |
| C405.7 [EL27]           | Electric motors meet the minimum efficiency requirements of Tables C405.7(1) through C405.7(4). Efficiency verified through certification under an approved certification program or the equipment efficiency ratings shall be provided by motor manufacturer (where certification programs do not exist). | <input type="checkbox"/> Complies<br><input checked="" type="checkbox"/> Does Not<br><input type="checkbox"/> Not Observable<br><input type="checkbox"/> Not Applicable | REFER TO THE MECHANICAL DRAWINGS.  |
| C405.8.2<br>1 [EL28]    | Escalators and moving walks comply with ASME A17.1/CSA B44 and have automatic controls configured to reduce speed to the minimum permitted speed in accordance with ASME A17.1/CSA B44 or applicable local code when not conveying passengers.   | <input type="checkbox"/> Complies<br><input checked="" type="checkbox"/> Does Not<br><input type="checkbox"/> Not Observable<br><input type="checkbox"/> Not Applicable | NOT APPLICABLE TO THIS PROJECT.  |
| C405.9 [EL29]           | Total voltage drop across the combination of feeders and branch circuits <= 5%.  | <input type="checkbox"/> Complies<br><input checked="" type="checkbox"/> Does Not<br><input type="checkbox"/> Not Observable<br><input type="checkbox"/> Not Applicable | REFER TO THE VOLTAGE DROP CALCULATIONS ON SHEET E7.                              |

Additional Comments/Assumptions:  
 1 High Impact (Tier 1) 2 Medium Impact (Tier 2) 3 Low Impact (Tier 3)  
 Project Title: JPM CHASE Report date: 03/02/22  
 Data filename: W:\uston\AE\JPM Chase\Midwest- IL IN WI KY MI OH WV\4121000090- Pryor Rd and Lowenstein D Page 5 of 7  
 C60025810702\09 MEP (No-CAD)\01 ELEC\CALCS\PRYOR RD & LOWENSTEIN DR.cck



## COMcheck Software Version 4.1.5.3 Inspection Checklist

Energy Code: 2018 IECC

Requirements: 0.0% were addressed directly in the COMcheck software

Text in the "Comments/Assumptions" column is provided by the user in the COMcheck Requirements screen. For each requirement, the user certifies that a code requirement will be met and how that is documented, or that an exception is being claimed. Where compliance is itemized in a separate table, a reference to that table is provided.

| Section # & Req.ID | Plan Review   | Complies?   | Comments/Assumptions           |
|--------------------|---|---|--------------------------------|
| C103.2 [PR4]       | Plans, specifications, and/or calculations provide all information with which compliance can be determined for the interior lighting and electrical systems and equipment and document where exceptions to the standard are claimed. Information provided should include interior lighting power calculations, wattage of bulbs and ballasts, transformers and control devices. | <input type="checkbox"/> Complies<br><input checked="" type="checkbox"/> Does Not<br><input type="checkbox"/> Not Observable<br><input type="checkbox"/> Not Applicable | REFER TO SHEETS E0, E2 AND E6. |
| C406 [PR9]         | Plans, specifications, and/or calculations provide all information with which compliance can be determined for the additional energy efficiency package options.  | <input type="checkbox"/> Complies<br><input checked="" type="checkbox"/> Does Not<br><input type="checkbox"/> Not Observable<br><input type="checkbox"/> Not Applicable | REFER TO SHEETS E0, E2 AND E6. |

### Additional Comments/Assumptions:

1 High Impact (Tier 1) 2 Medium Impact (Tier 2) 3 Low Impact (Tier 3)  
 Project Title: JPM CHASE Report date: 03/02/22  
 Data filename: W:\uston\AE\JPM Chase\Midwest- IL IN WI KY MI OH WV\4121000090- Pryor Rd and Lowenstein D Page 3 of 7  
 C60025810702\09 MEP (No-CAD)\01 ELEC\CALCS\PRYOR RD & LOWENSTEIN DR.cck

| Section # & Req.ID | Final Inspection  | Complies?   | Comments/Assumptions                             |
|--------------------|---|---|--|
| C303.3<br>2 [F117] | Furnished O&M instructions for systems and equipment to the building owner or designated representative.  | <input type="checkbox"/> Complies<br><input checked="" type="checkbox"/> Does Not<br><input type="checkbox"/> Not Observable<br><input type="checkbox"/> Not Applicable | REFER TO NOTE 45 ON SHEET E0.                    |
| C405.4.1 [F118]    | Interior installed lamp and fixture lighting power is consistent with what is shown on the approved lighting plans, demonstrating proposed watts are less than or equal to allowed watts.   | <input type="checkbox"/> Complies<br><input checked="" type="checkbox"/> Does Not<br><input type="checkbox"/> Not Observable<br><input type="checkbox"/> Not Applicable | REFER TO THE LIGHT FIXTURE SCHEDULE ON SHEET E0. |
| C408.1.1 [F157]    | Building operations and maintenance documents will be provided to the owner. Documents will cover manufacturers' information, specifications, programming procedures and means of illustrating to owner how building, equipment and systems are intended to be installed, maintained, and operated. | <input type="checkbox"/> Complies<br><input checked="" type="checkbox"/> Does Not<br><input type="checkbox"/> Not Observable<br><input type="checkbox"/> Not Applicable | REFER TO NOTE 45 ON SHEET E0.                    |
| C408.2.5 [F116]    | Furnished as-built drawings for electric power systems within 90 days of system acceptance.   | <input type="checkbox"/> Complies<br><input checked="" type="checkbox"/> Does Not<br><input type="checkbox"/> Not Observable<br><input type="checkbox"/> Not Applicable | REFER TO NOTE 46 ON SHEET E0.                    |
| C408.3 [F133]      | Lighting systems have been tested to ensure proper calibration, adjustment, programming, and operation.   | <input type="checkbox"/> Complies<br><input checked="" type="checkbox"/> Does Not<br><input type="checkbox"/> Not Observable<br><input type="checkbox"/> Not Applicable | REFER TO NOTE 47 ON SHEET E0.                    |

Additional Comments/Assumptions:  
 1 High Impact (Tier 1) 2 Medium Impact (Tier 2) 3 Low Impact (Tier 3)  
 Project Title: JPM CHASE Report date: 03/02/22  
 Data filename: W:\uston\AE\JPM Chase\Midwest- IL IN WI KY MI OH WV\4121000090- Pryor Rd and Lowenstein D Page 6 of 7  
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PREPARED BY:

# EBI Consulting

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SIGNED BY:



Jermaine F. Williams  
 2002.02.02 PE 4010-0907

## PRYOR ROAD & LOWENSTEIN DRIVE

908 NW PRYOR ROAD  
LEE'S SUMMIT, MO 64081

EBI JOB #4121000090

| ISSUE | DATE | DESCRIPTION |
|-------|------|-------------|
|       |      |             |
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PRYOR & LOWENSTEIN  
PROTOTYPE VERSION 20.4

CONTENTS

INTERIOR LIGHTING  
COMPLIANCE CERTIFICATE

02/04/2022

SHEET

# E-6

| VOLTAGE DROP CALCULATION FROM TRANSFORMER TO MAIN DISCONNECT:  | VOLTAGE DROP CALCULATION FROM MAIN DISCONNECT TO PP1:  | VOLTAGE DROP CALCULATION TO FARTHEST BRANCH CIRCUIT: PP3-35.37  |
|--|--|---|
| SOURCE = AC, 3Φ<br>VOLTAGE = 208.0<br>COND. MATERIAL = PVC<br>POWER FACTOR = 0.90<br>COND. TEMP. = 75°C<br>CONDUCTOR METAL = COPPER<br>COND. PER PHASE = 1<br>WIRE SIZE = 600 MCM<br>LOAD = 86.8 AMPS<br>LENGTH (1-WAY) = 80.0 FEET<br>RESULT:<br>THE VOLTAGE DROP = 0.22%, 0.45V L-L. | SOURCE = AC, 3Φ<br>VOLTAGE = 208.0<br>COND. MATERIAL = STEEL<br>POWER FACTOR = 0.90<br>COND. TEMP. = 75°C<br>CONDUCTOR METAL = COPPER<br>COND. PER PHASE = 1<br>WIRE SIZE = 600 MCM<br>LOAD = 86.8 AMPS<br>LENGTH (1-WAY) = 25.0 FEET<br>RESULT:<br>THE VOLTAGE DROP = 0.08%, 0.16V L-L. | SOURCE = AC, 1Φ<br>VOLTAGE = 208.0<br>COND. MATERIAL = PVC<br>POWER FACTOR = 0.90<br>COND. TEMP. = 75°C<br>CONDUCTOR METAL = COPPER<br>COND. PER PHASE = 2<br>WIRE SIZE = #10<br>LOAD = 0.968 KVA<br>LENGTH (1-WAY) = 160.0 FEET<br>RESULT:<br>THE VOLTAGE DROP = 0.39%, 0.82V. |
| VOLTAGE DROP CALCULATION TO PP1 = 0.22%+0.08% = 0.30%  |  |   |
| VOLTAGE DROP CALCULATION TO FARTHEST BRANCH CIRCUIT: 0.39%   |  |   |
| TOTAL PERCENT VOLTAGE DROP = 0.30% + 0.39% = 0.69%   |  |   |

### FAULT CURRENT CALCULATION FOR MAIN DISCONNECT

AMPS SHORT CIRCUIT FROM ELECTRICAL UTILITIES = 43,237 A RMS

WIRE IS: 600 AWG  
NUMBER OF CONDUCTORS PER PHASE: 1  
CONDUCTOR LENGTH "L": 80'  
CONDUCTOR "C" VALUE: 22,965 (#CONDUCTORS PER PHASE x C = 22,965)

$$f = \frac{1.73 \times L \times I}{C \times E_{L-L}} = \frac{1.73 \times 80 \times 43,237}{22,965 \times 208} = 1.253$$

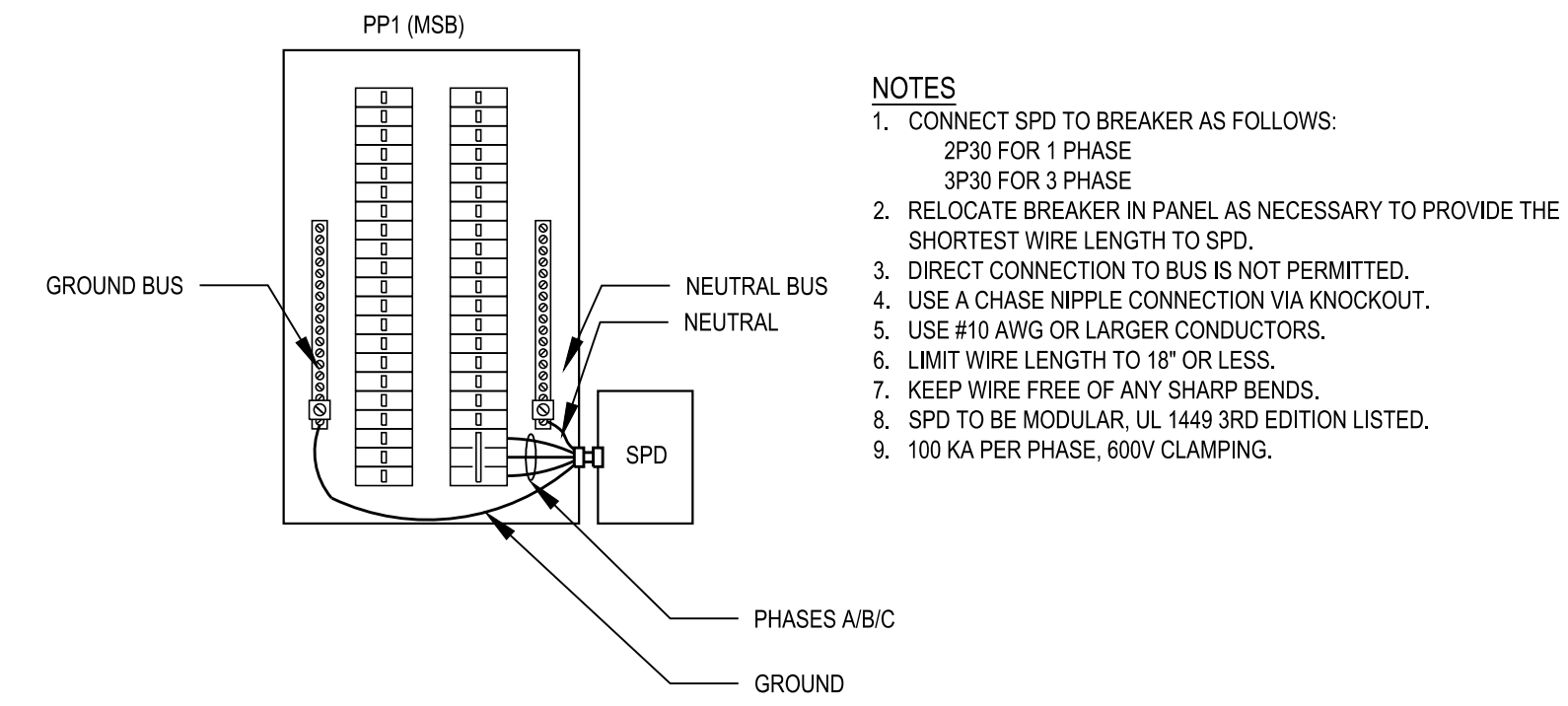
$$M = \frac{1}{1 + f} = \frac{1}{1 + 1.253} = 0.444$$

I<sub>SCA</sub> AVAILABLE FROM UTILITY x M = 43,237 x 0.444 = 19,197 A RMS  
I<sub>SCA</sub> MOTOR CONTRIBUTION =  $\frac{MOTOR\ kVA \times 1000}{1.73 \times E_{L-L} \times 0.25 \times MOTOR\ Z_{pu}}$  = NEGLIGIBLE

I<sub>SCA</sub> TOTAL = I<sub>SCA</sub> AVAILABLE FROM UTILITY + I<sub>SCA</sub> MOTOR CONTRIBUTION = 19,197 A RMS AT BUILDING MAIN

MINIMUM BREAKER A.I.C. RATING = 22,000 A.I.C.

L = LENGTH (feet) OF CIRCUIT TO FAULT  
C = CONSTANT VALUE FOR CONDUCTORS - FOR PARALLEL RUNS MULTIPLY "C" VALUE BY NUMBER OF CONDUCTORS PER PHASE  
I = AVAILABLE SHORT CURRENT IN AMPERES AT BEGINNING OF CIRCUIT



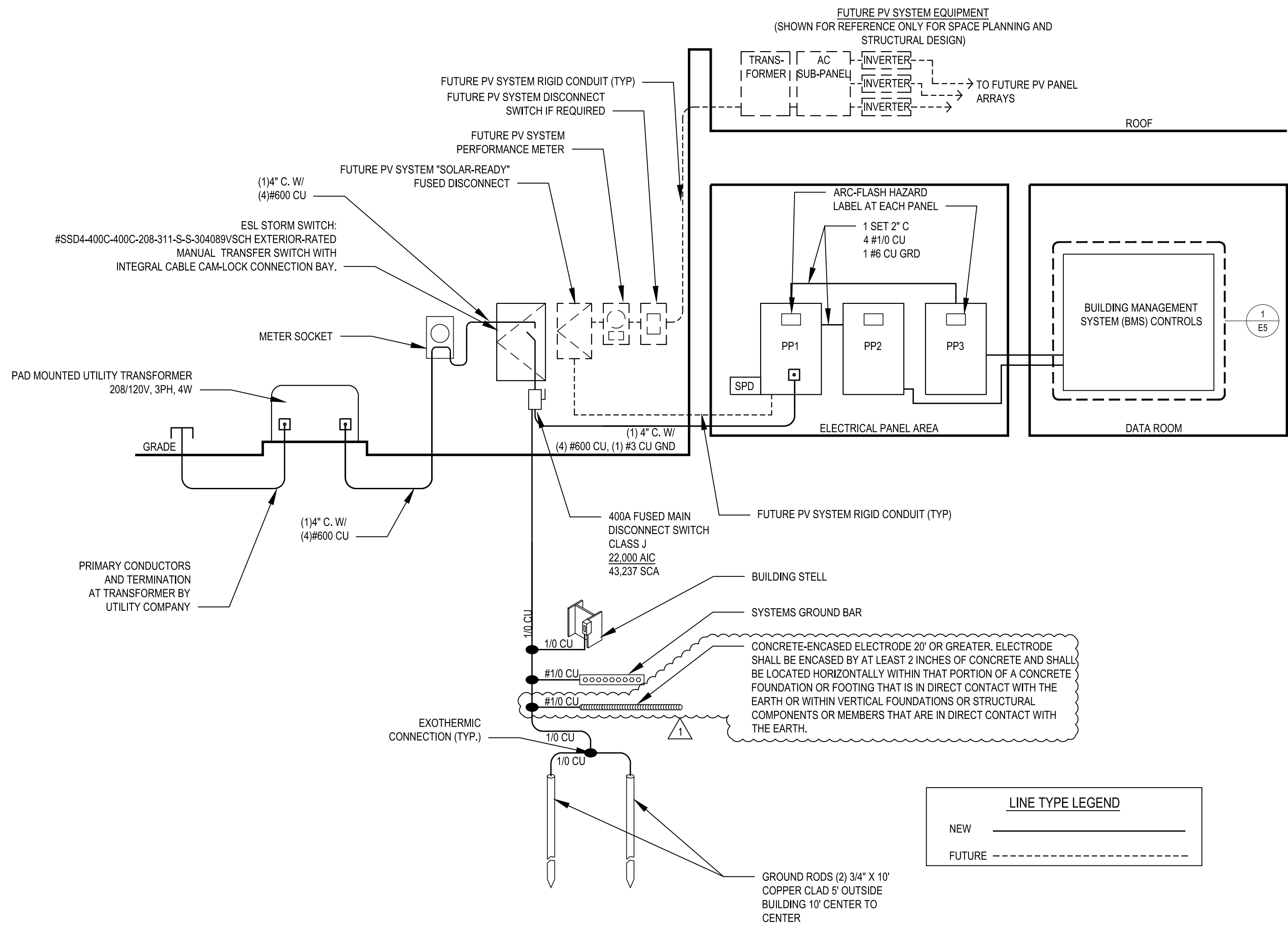
- NOTES**
- CONNECT SPD TO BREAKER AS FOLLOWS:  
2P30 FOR 1 PHASE  
3P30 FOR 3 PHASE
  - RELOCATE BREAKER IN PANEL AS NECESSARY TO PROVIDE THE SHORTEST WIRE LENGTH TO SPD.
  - DIRECT CONNECTION TO BUS IS NOT PERMITTED.
  - USE A CHASE NIPPLE CONNECTION VIA KNOCKOUT.
  - USE #10 AWG OR LARGER CONDUCTORS.
  - LIMIT WIRE LENGTH TO 18" OR LESS.
  - KEEP WIRE FREE OF ANY SHARP BENDS.
  - SPD TO BE MODULAR, UL 1449 3RD EDITION LISTED.
  - 100 KA PER PHASE, 600V CLAMPING.

**2**  
E-6 OVERALL VOLTAGE DROP  
N.T.S.

**3**  
E-6 MAIN DISCONNECT  
FAULT CURRENT CALCULATION  
N.T.S.

**4**  
E-6 ELECTRICAL SERVICE  
SURGE PROTECTION  
N.T.S.

- TRANSFER SWITCH**
- SYSTEM SHALL INCLUDE MANUAL DOUBLE-THROW POWER TRANSFER SWITCH, GENERATOR CABLE CONNECTORS, AND ANY ASSOCIATED ENCLOSURES, CONDUITS AND CONDUCTORS AS REQUIRED FOR A COMPLETE EMERGENCY TRANSFER SWITCH INSTALLATION.
  - SYSTEM ELECTRICAL CHARACTERISTICS:
    - 3-POSITION SWITCH: ON (UTILITY POWER) / OFF / ON (EMERGENCY GENERATOR POWER)
    - 3 PHASE, 60 HZ, NEUTRAL BAR, 208/120 V OR 480/277 V (MATCH UTILITY SERVICE ENTRY WITH AIC RATING CAPABLE OF WITHSTANDING THE AVAILABLE FAULT CURRENT OF THE INCOMING UTILITY.)
    - SWITCH AND CONNECTOR CURRENT CAPACITY SHALL MATCH MAIN SERVICE PANEL CIRCUIT BREAKER
  - ENGINEERING DESIGN OF THE ETS SYSTEM SHALL POWER THE FULL FACILITY UNDER 100% LOAD.
  - ALL WORK SHALL COMPLY WITH ALL APPLICABLE CODES. WHERE COMBUSTIBLE MATERIALS (DIESEL FUEL OR THE LIKE) ARE TO BE STORED, THE ARCHITECT OF RECORD IS RESPONSIBLE FOR DETERMINING CODE-COMPLIANT PLACEMENT OF TEMPORARY STORAGE TANKS.
  - ALL MATERIALS AND ASSEMBLIES SHALL BE UL-LISTED FOR THIS APPLICATION. EXTERIOR ENCLOSURES SHALL BE RATED MINIMUM NEMA 3R FOR EXTERIOR USE.
  - APPLY VISUAL ELECTRICAL HAZARD WARNINGS AS REQUIRED BY CODE.
  - THE ETS SHALL BE PROTECTED FROM VEHICULAR DAMAGE BY CONCRETE CURBS, BOLLARDS OR OTHER DEVICES AS REQUIRED.
  - ALL CONDUIT AND FITTINGS SHALL BE WATER-TIGHT HEAVY-WALL THREADED RIGID GALVANIZED STEEL. ALL ENCLOSURES SHALL ACHIEVE NEMA MINIMUM RATING REQUIRED FOR THEIR INTENDED USE.
  - SWITCH ENCLOSURE SHALL INCLUDE LOCK HASPS AT ALL THREE SWITCH POSITIONS SECURING THE SWITCH POSITION AND PANEL DOOR.
  - GENERATOR CONNECTION ENCLOSURE SHALL INCLUDE LOCK HASP.
  - PADLOCKS AT TRANSFER SWITCH AND GENERATOR CONNECTION ENCLOSURES SHALL BE PROVIDED BY OWNER (CHASE FACILITIES) TO GENERAL CONTRACTOR FOR INSTALLATION AT TURNOVER TO RETAIL.
  - THE ETS SHALL INCLUDE A LOCKING GENERATOR CONNECTION ENCLOSURE ATTACHED DIRECTLY TO THE UNDERSIDE OF THE SWITCH ENCLOSURE. THE CONNECTION ENCLOSURE SHALL INCLUDE A SAFETY INTERLOCK WITH THE ETS TO PREVENT CONNECTION / DISCONNECTION WHILE UNDER LOAD. THE CABLE OPENINGS IN THE ENCLOSURE SHALL BE DESIGNED SO AS TO PERMIT ADEQUATE CABLE SLACK TO ROUTE THE CABLE WITHOUT DAMAGE, AND TO PREVENT ENTRY OF WIND-DRIVEN PRECIPITATION.
  - GENERATOR CABLE CONNECTIONS WITHIN THE CONNECTION ENCLOSURE SHALL BE COPPER CAMLOK E1016 COLOR-CODED MALE PANEL CONNECTORS WITH FLP COVERS. THE ENCLOSURE SHALL BE SIZED AS REQUIRED TO ACCEPT AND SECURE THE GENERATOR CABLES FITTED WITH FEMALE COPPER CAMLOK E1016 CONNECTORS.
  - THE CONNECTION ENCLOSURE INTERIOR SHALL INCLUDE UNIFORM PHENOLIC WEATHER-PROOF SIMPLE FUNCTIONAL INSTRUCTIONS AS TO THE INSTALLATION OF CABLES, PHASE ROTATION CHECK, AND SWITCH OPERATION.
  - THE CONNECTION ENCLOSURE SHALL INCLUDE A CORRECT PHASE ROTATION INDICATOR, ALLOWING THE OPERATOR TO ENSURE THAT THE GENERATOR PHASE ROTATION MATCHES THE UTILITY PHASE ROTATION REGARDLESS OF THE POSITION OF THE ETS.
  - THE ETS ENCLOSURE SHALL INCLUDE AN INDICATOR OF UTILITY AVAILABILITY REGARDLESS OF THE POSITION OF THE ETS.
  - GENERATOR FUEL SOURCE MAY VARY BY REGION. COORDINATE WITH UTILITIES TO DETERMINE AVAILABILITY OF NATURAL GAS OR DIESEL FUEL TYPE. PRIOR TO PROCEEDING WITH DESIGN:
    - FOR NATURAL GAS GENERATORS, PROVIDE THE REQUIRED FUEL CONNECTION AT THE BUILDING OR ON THE SITE.
    - FOR DIESEL GENERATORS, VERIFY WITH LOCAL AUTHORITIES HAVING JURISDICTION PERMITTED ON-SITE FUEL.



**1**  
E-6 ELECTRICAL RISER DIAGRAM  
N.T.S.

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SIGNED BY:  
  
Jermaine F. Williams  
2022.04.12  
12:42:51-04'00"

**PRYOR ROAD & LOWENSTEIN DRIVE**  
908 NW PRYOR ROAD  
LEE'S SUMMIT, MO 64081

EBI JOB #412100090

| ISSUE | DATE       | DESCRIPTION      |
|-------|------------|------------------|
| 0     | 03/02/2022 | PERMIT           |
| 1     | 04/11/2022 | PERMIT REVISIONS |



PRYOR & LOWENSTEIN  
PROTOTYPE VERSION 20.4

CONTENTS  
ONE-LINE DIAGRAM & ELECTRICAL SYSTEM DETAILS

02/04/2022  
SHEET

**E-7**

FIGURE 1: LIGHTING ZONE/CIRCUIT ON/OFF CONTROL

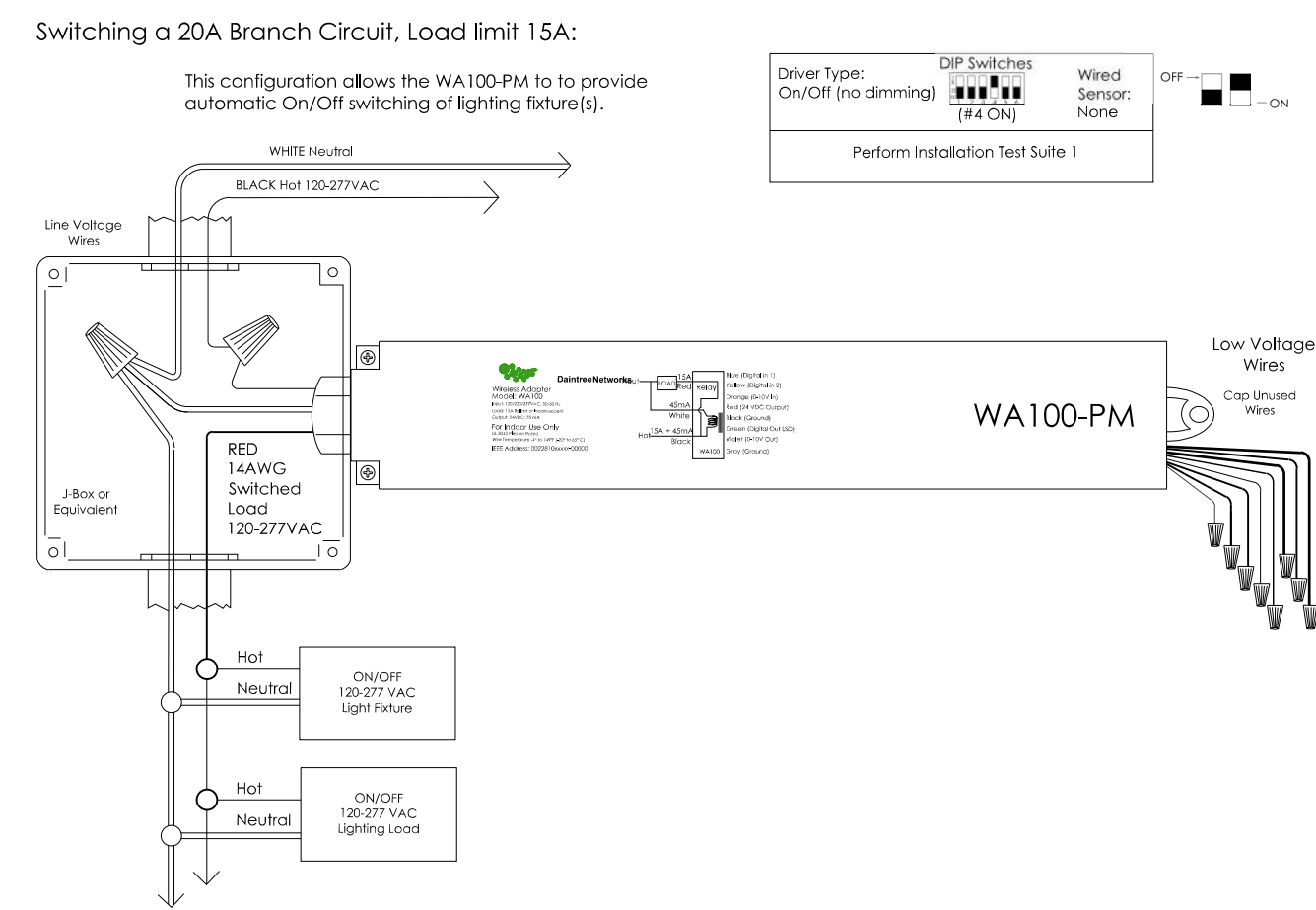


FIGURE 2: LIGHTING ZONE DIMMING WITH PHASE CONVERTOR MODULE

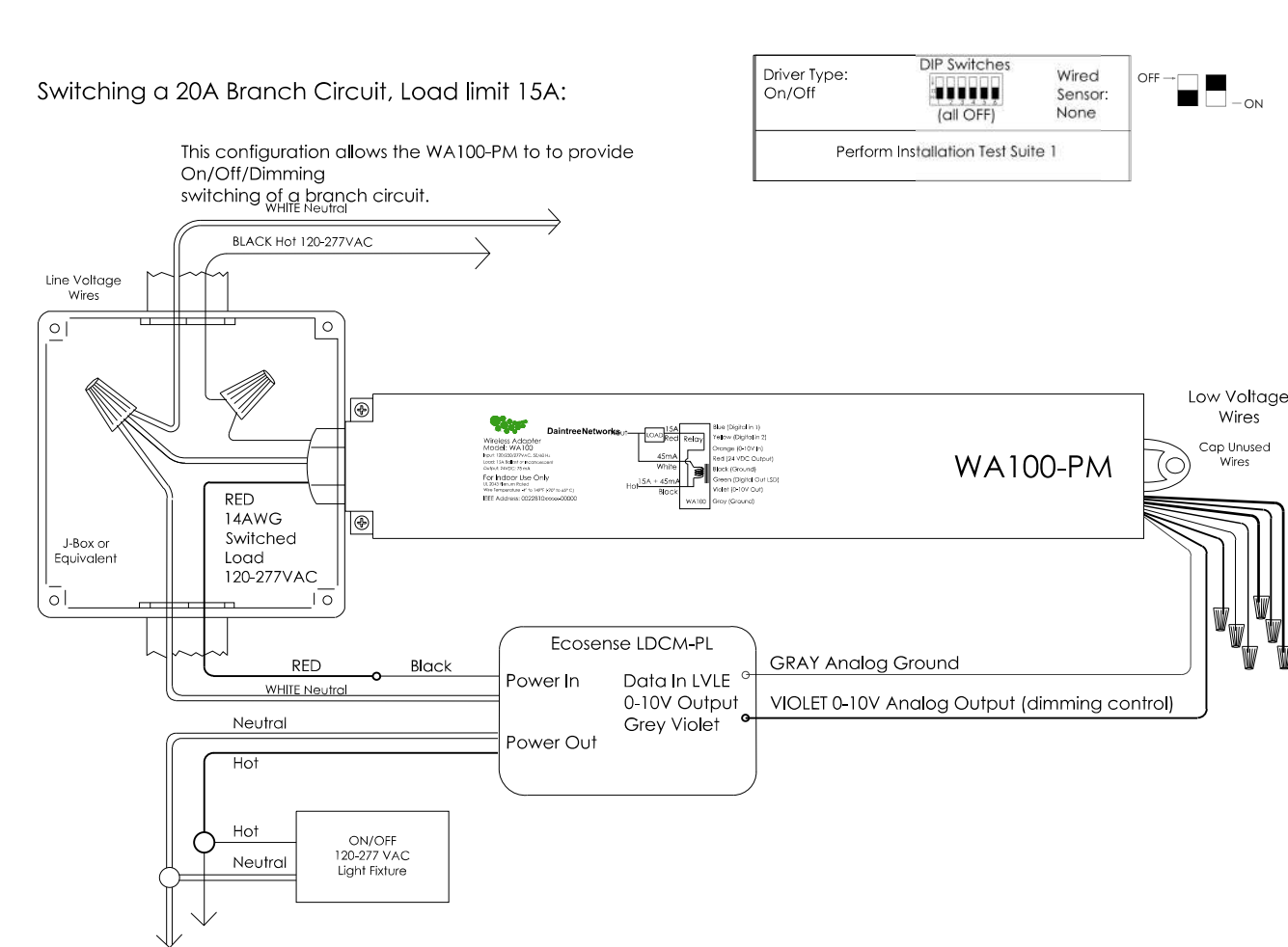


FIGURE 4: WA100-PM WITH (EXTERIOR) PHOTOCELL

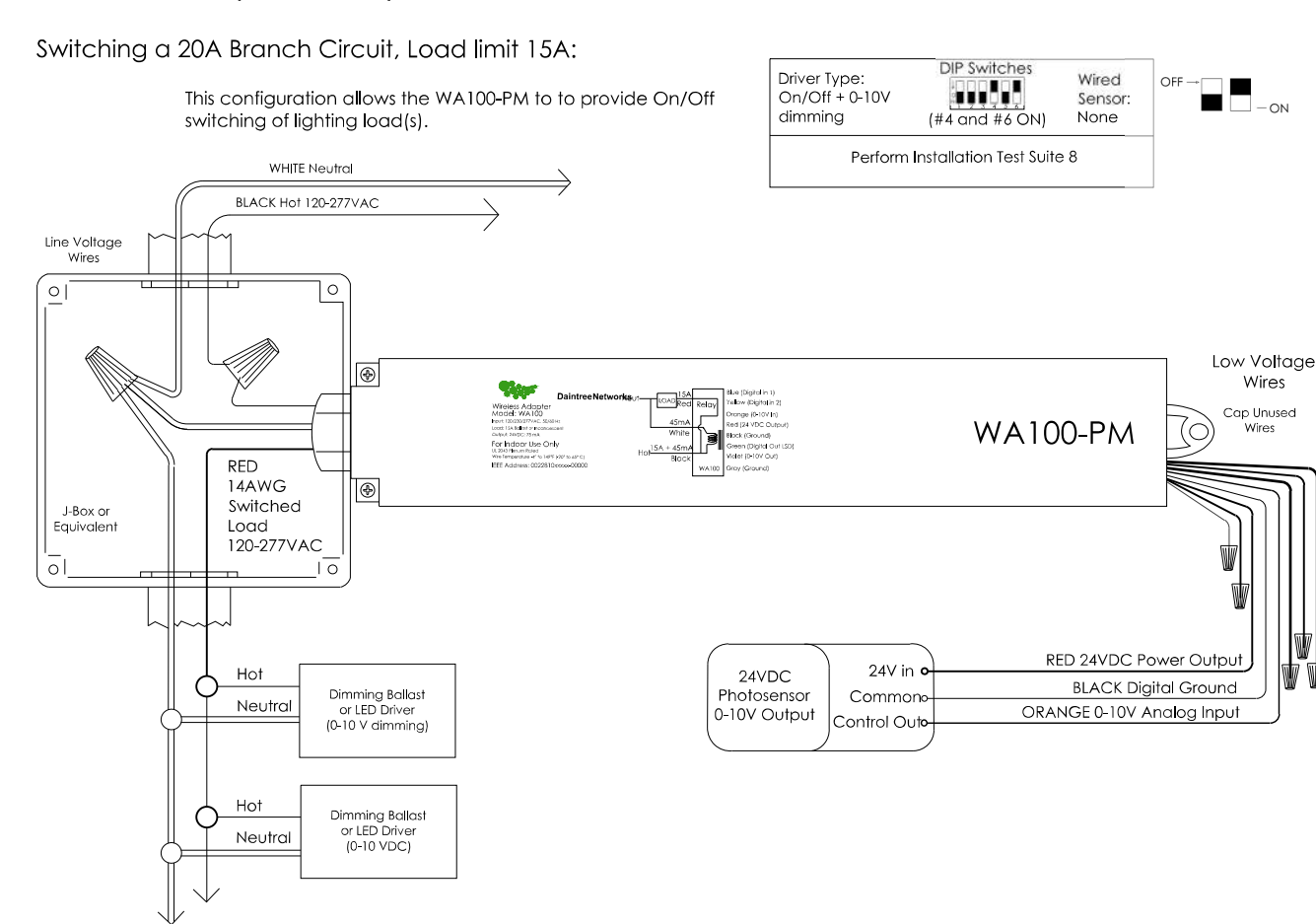


FIGURE 5: DIMMING LIGHT FIXTURE(S) CONFIGURATION

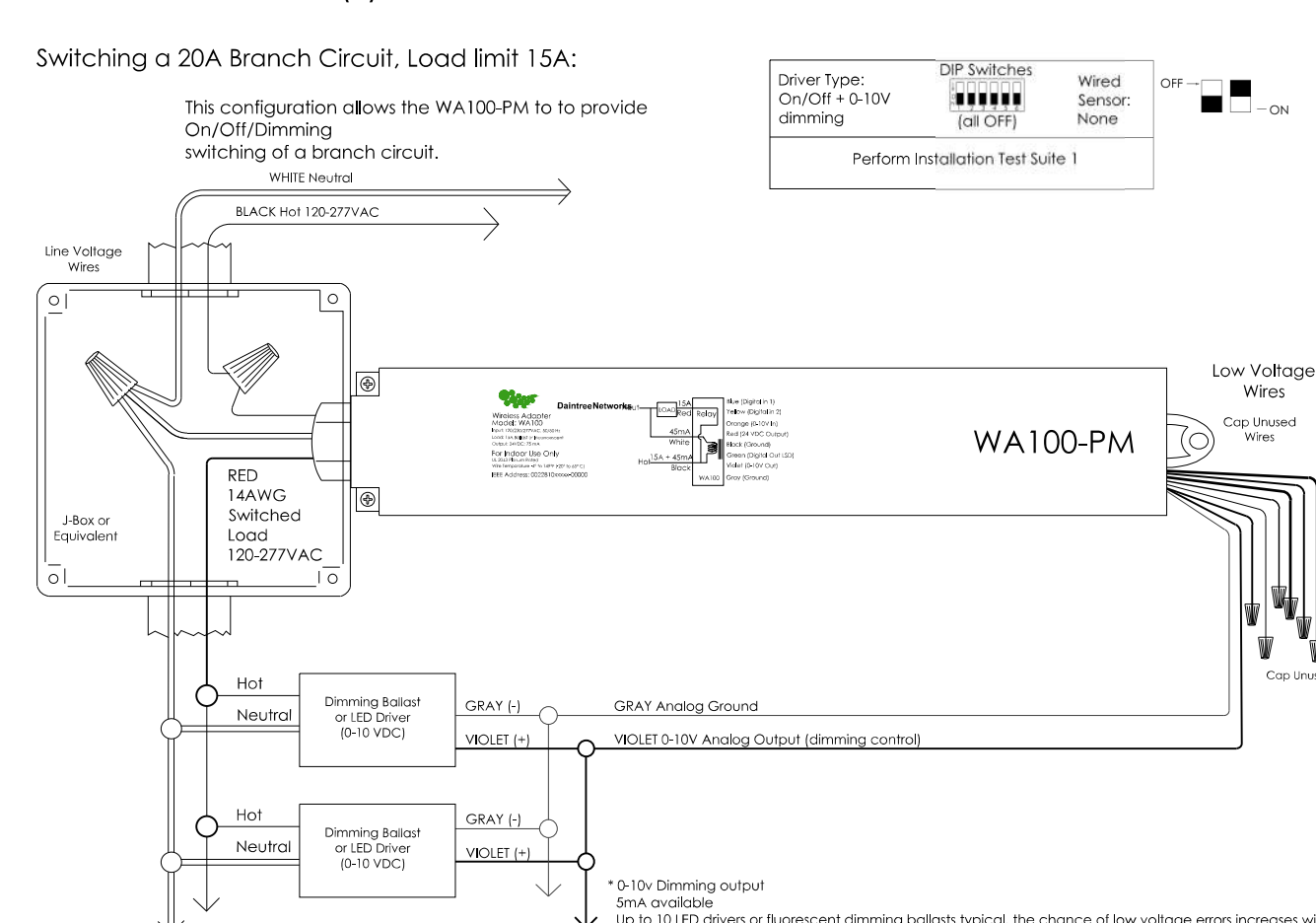


Fig. 6: Dimming Light Fixture(s), Photosensor configuration

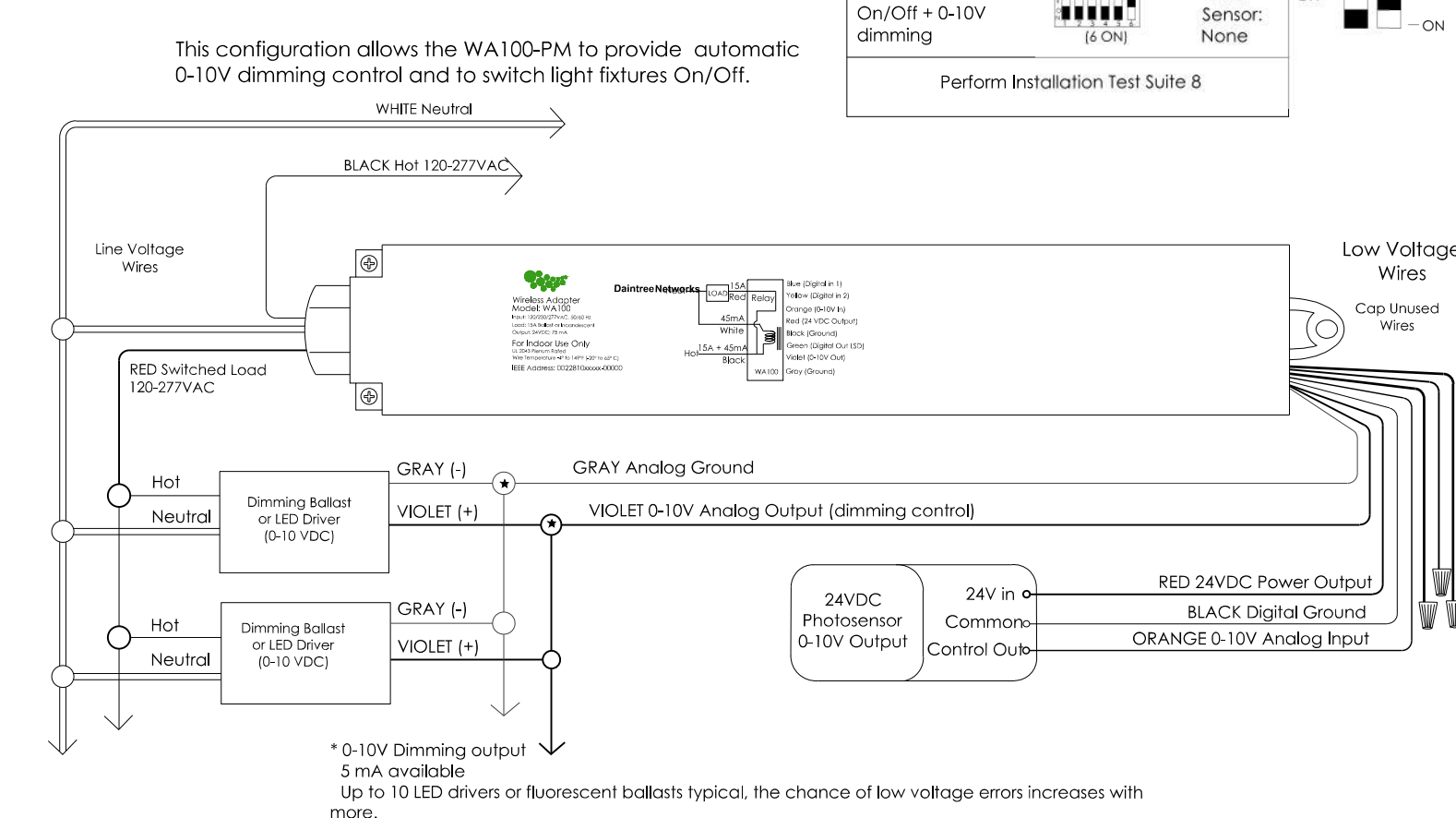


FIGURE 7: WGA100 WITH LEAK DETECTION SENSOR

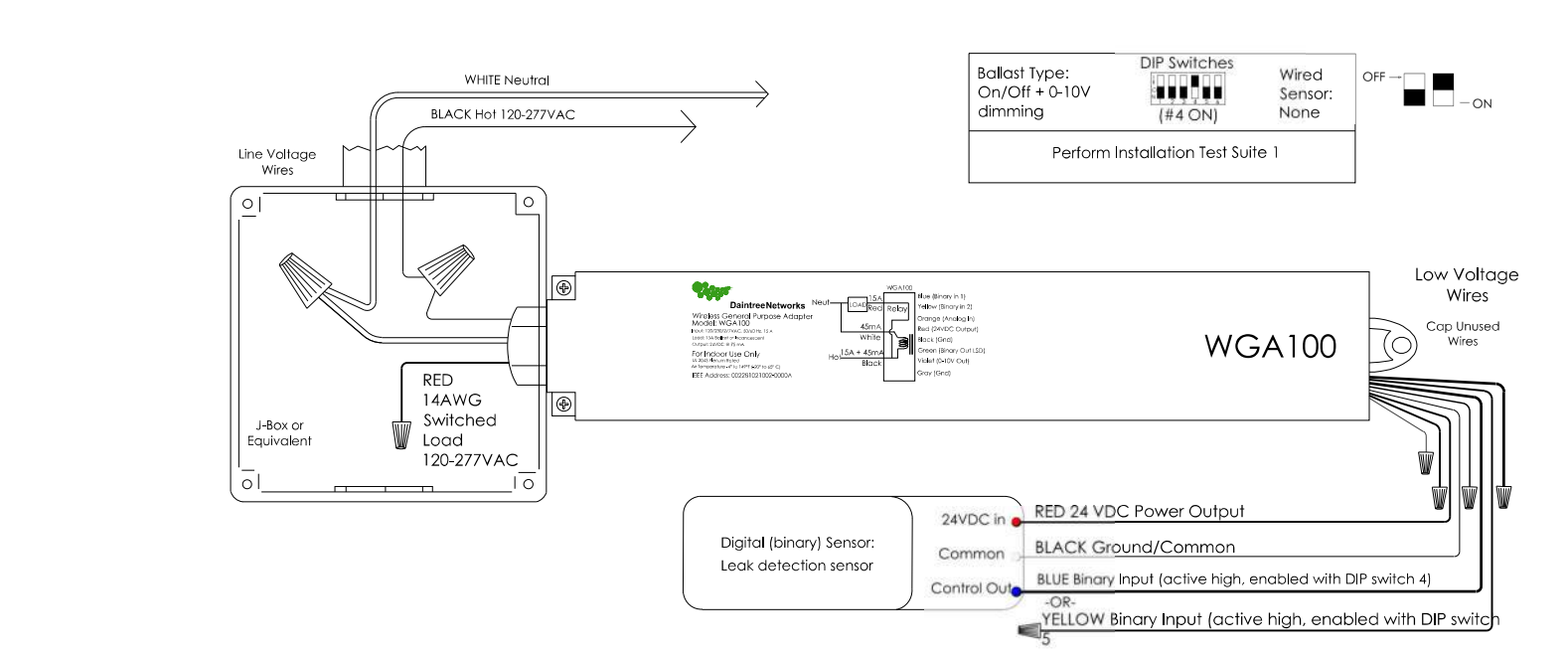


FIGURE 8A: WSA100 FOR HUMIDITY AND CO2 SENSORS

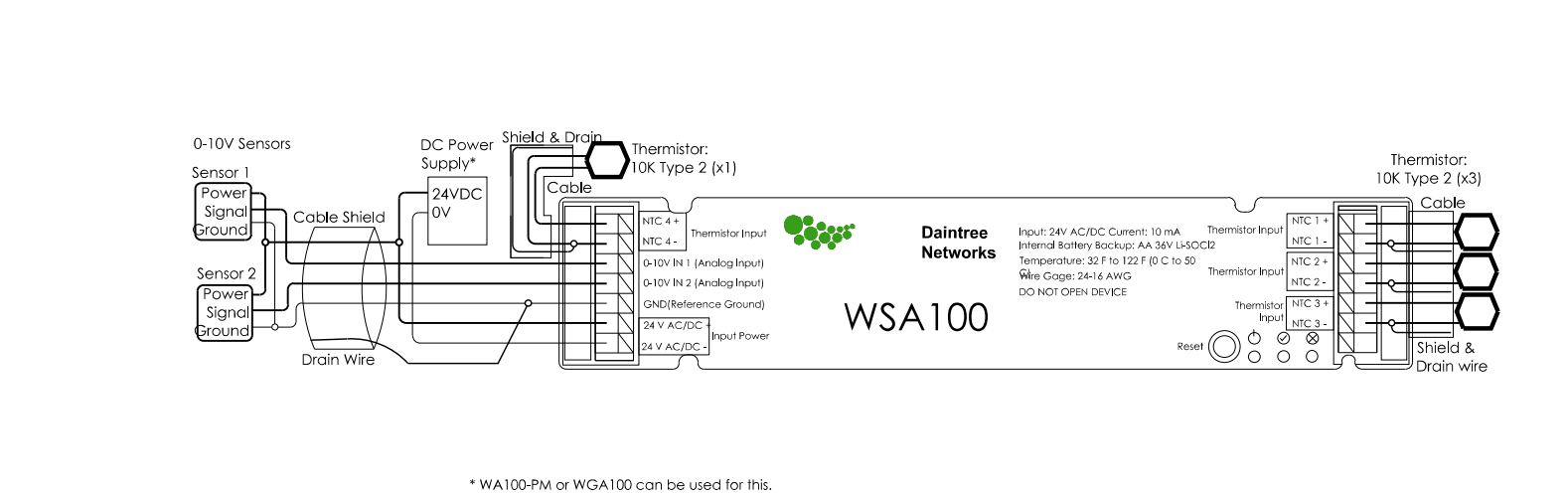


FIGURE 8B: WGA100 ANALOG INPUT CONFIGURATION WITH SELF-POWERED FAN CT

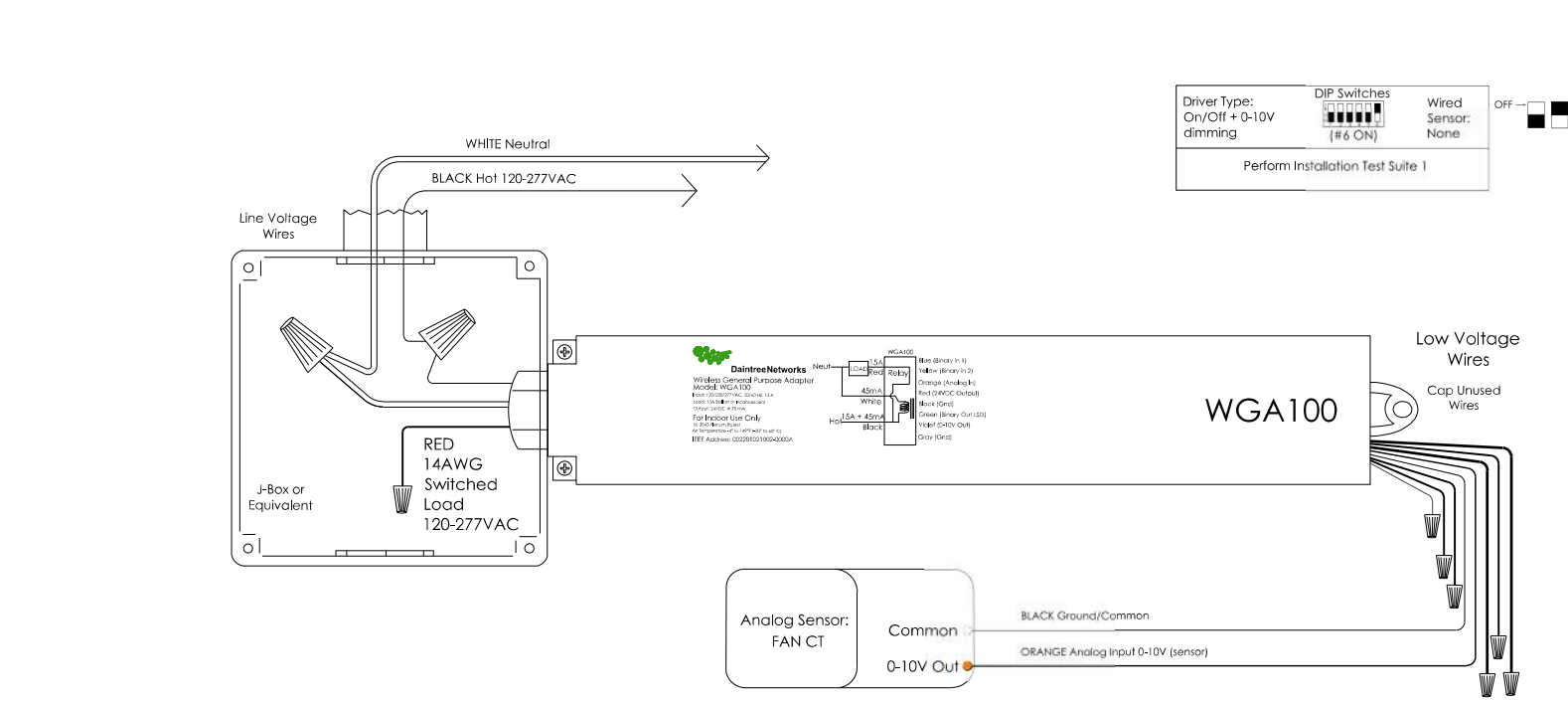


FIGURE 12: 208 V 2-POLE (PHASE-TO-PHASE) WIRING.

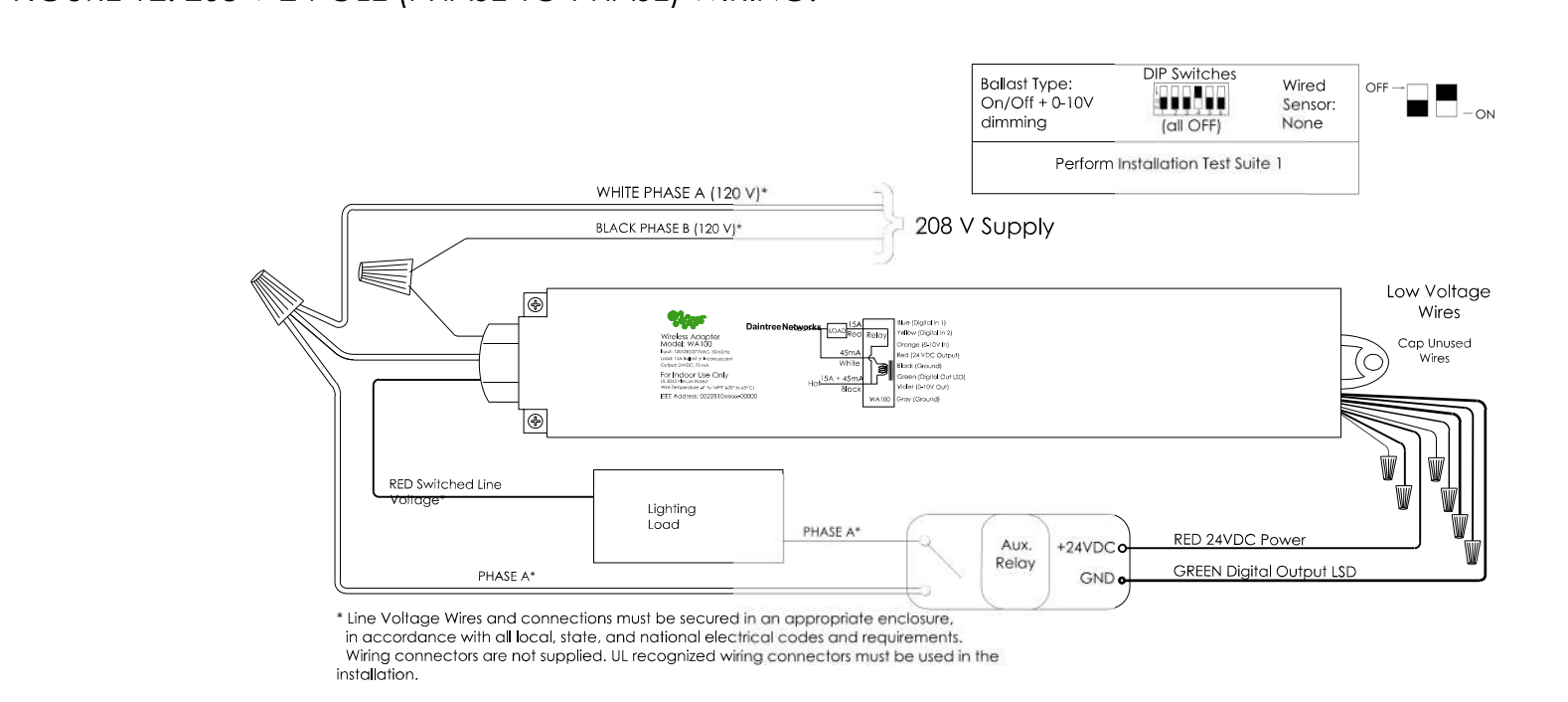


FIGURE 9A: WA100-PM DIMMING CONFIGURATION W/ AUXILIARY RELAY FOR PLUG LOAD CONTROL

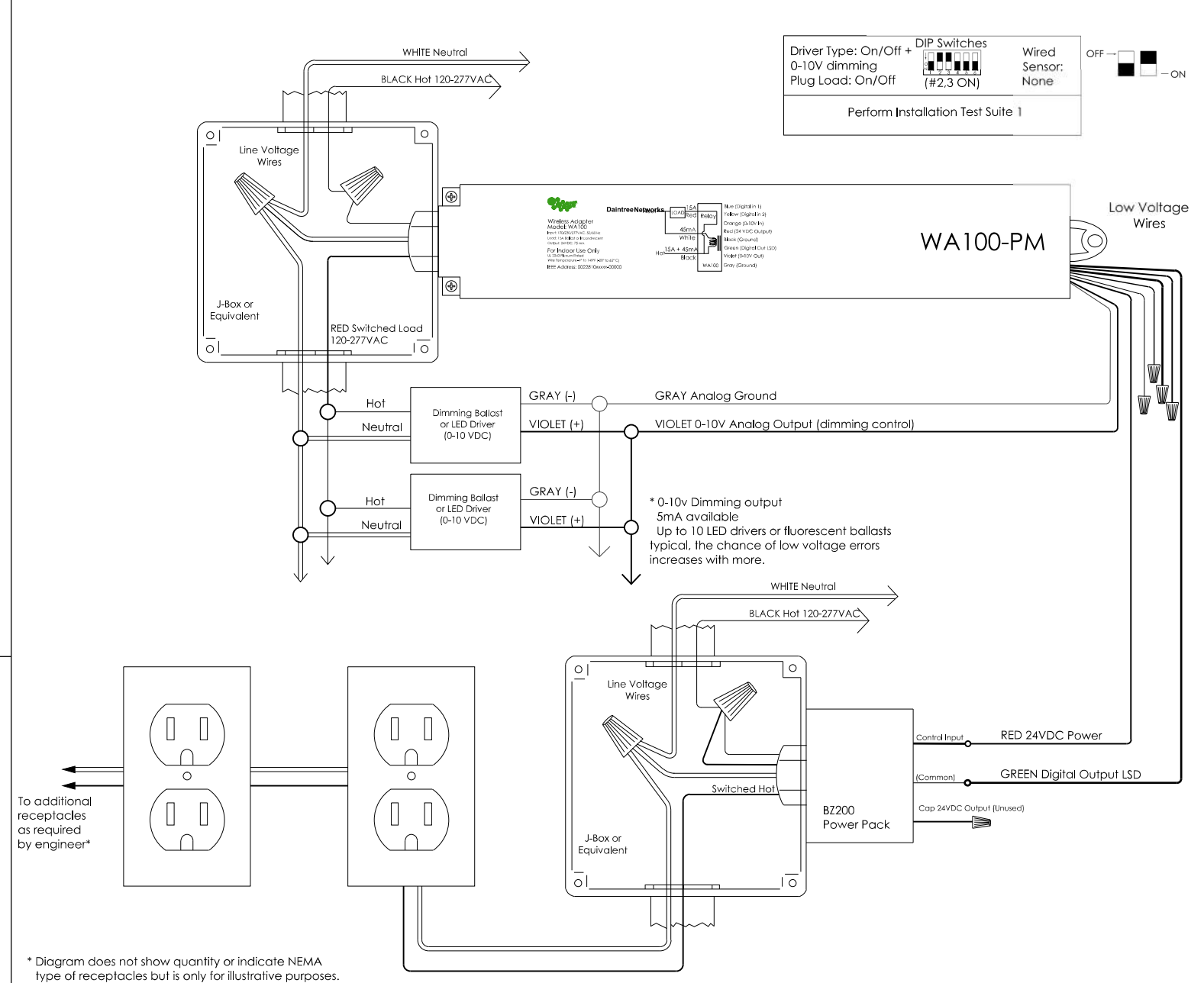


FIGURE 9A: WA100-PM DIMMING CONFIGURATION W/ AUXILIARY RELAY FOR PLUG LOAD CONTROL

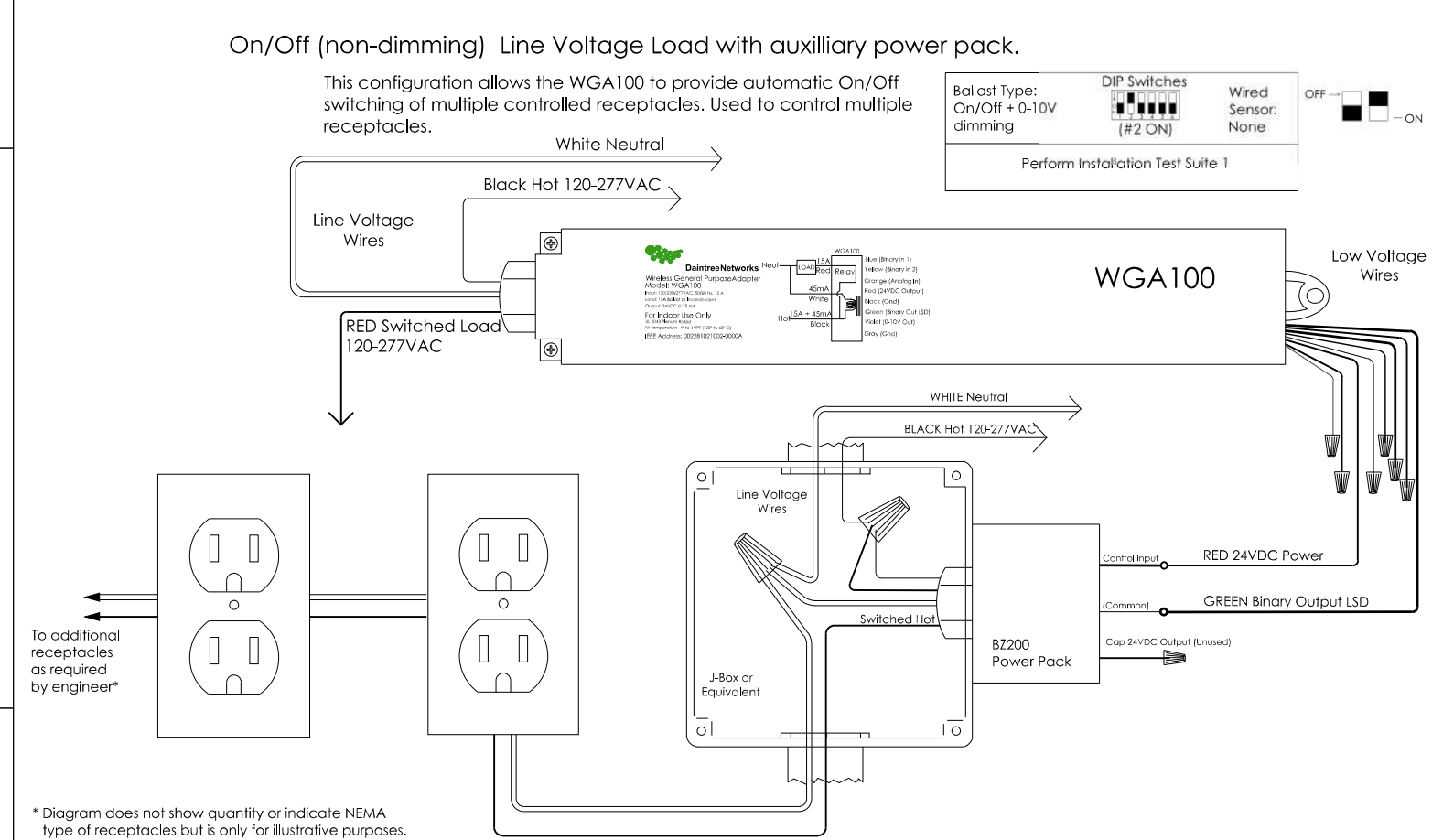


FIGURE 10: 15A NON-LIGHTING LOAD CONFIGURATION

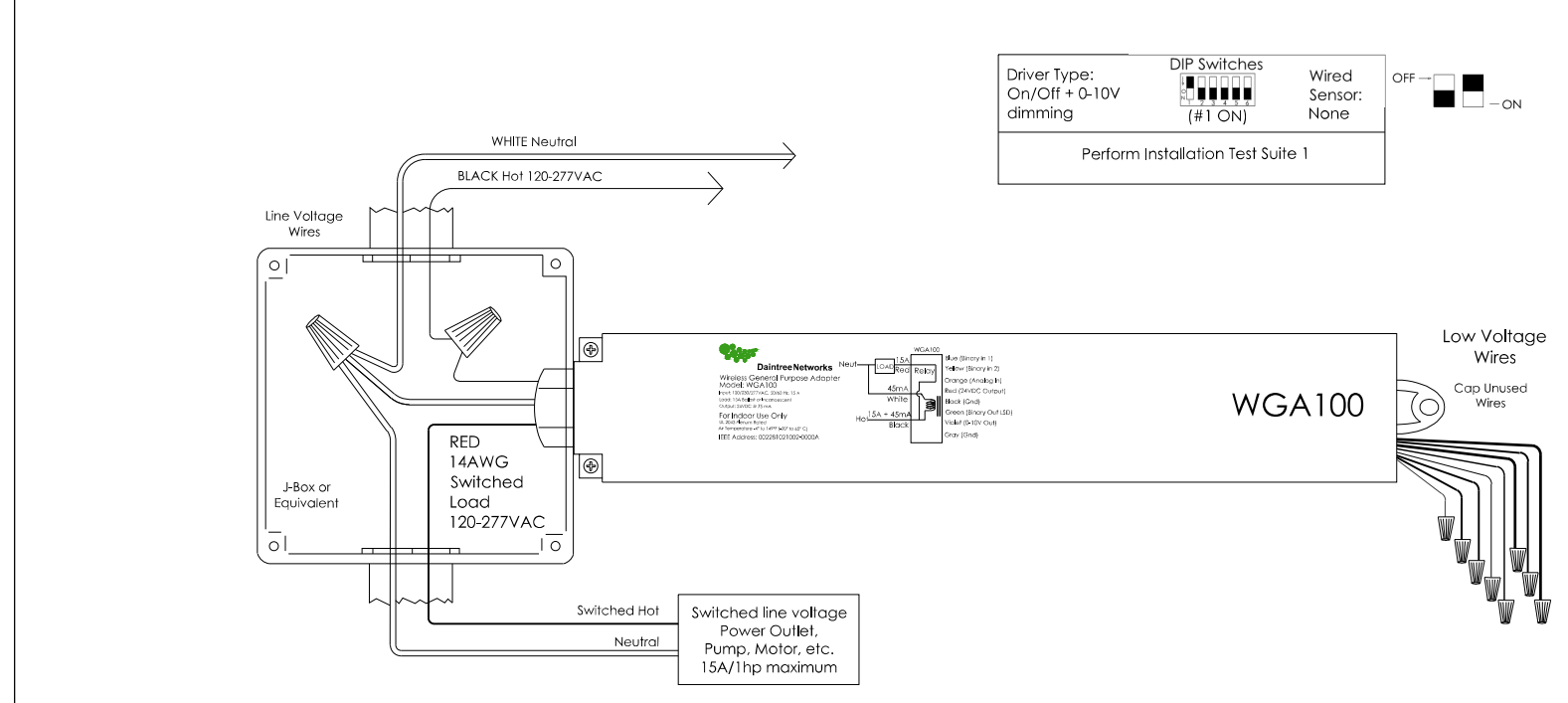
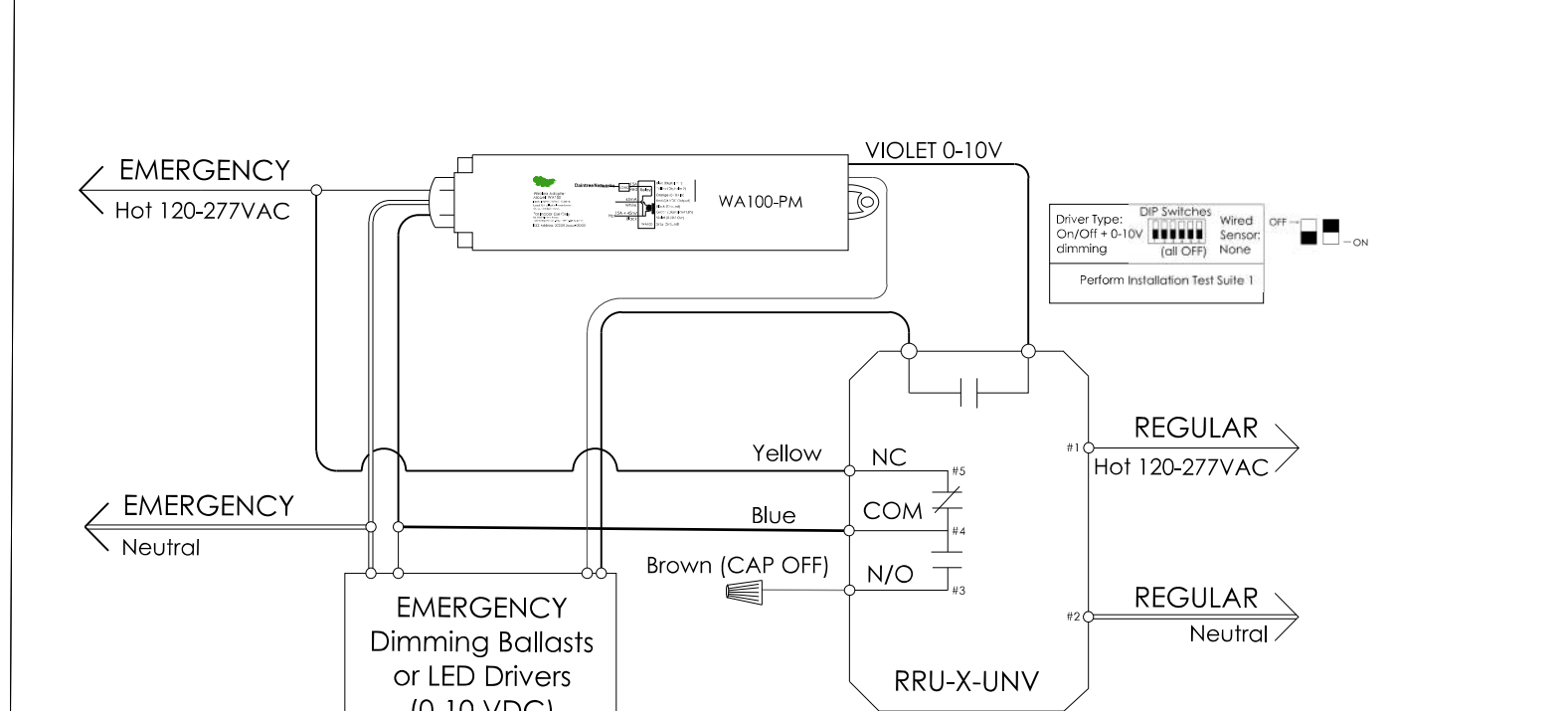


FIGURE 11: WA100-PM DIMMING CONFIGURATION FOR EMERGENCY ZONES USING SHUNT RELAY RRU-X-UNV



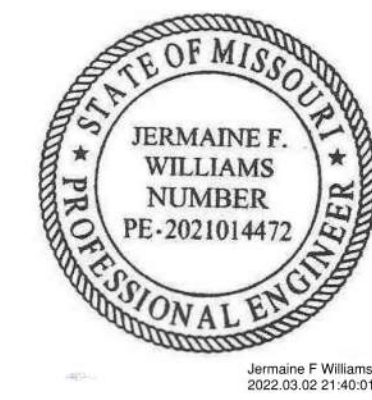
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PRYOR & LOWENSTEIN  
 PROTOTYPE VERSION 20.4

CONTENTS

BMS MANUFACTURER'S  
 DEVICE WIRING DIAGRAMS

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PART 1 -

- 1.1 GENERAL REQUIREMENTS
A. THIS DOCUMENT IS INTENDED TO PROVIDE THE INFORMATION NECESSARY TO ALLOW THE DESIGN AND CONSTRUCTION TEAMS TO PLAN AND IMPLEMENT TELECOMMUNICATIONS CABLING INFRASTRUCTURES AND TO ENSURE THAT ALL NEW INSTALLATIONS AND RENOVATIONS ARE UNIFORM AND CONSISTENT WITH COMPANY-WIDE STANDARDS.
B. IT IS ENVISIONED THAT NOT ALL RETAIL SPACES WILL REQUIRE THE COMPLETE RANGE OF SERVICES AND TELECOMMUNICATIONS INFRASTRUCTURE DESCRIBED IN THIS DOCUMENT.
1.2 PURPOSE
A. THIS STANDARD FOR RETAIL STRUCTURED CABLING DESIGN AND THE ACCOMPANYING APPENDICES IS INTENDED AS A STANDARD TO BE USED BY CONSTRUCTION DESIGN PROFESSIONALS (ARCHITECTS, ENGINEERS, DESIGNERS, ETC.).
B. THIS STANDARD MUST BE USED AS A TOOL TO PLAN RETAIL FACILITIES.
1.3 DESIGN CONSULTANT REQUIREMENTS
A. IN THE CASE WHERE A PROJECT IS DESIGNED BY AN ENTITY OTHER THAN THE JPMC STRUCTURED CABLING ENGINEERING TEAM, THE DESIGN CONSULTANT SHALL MEET ONE OF THE FOLLOWING CRITERIA.
1.4 TECHNOLOGY SPACE DEFINITIONS
A. THE FOLLOWING ARE THE TYPES OF TECHNOLOGY SPACES THAT ARE FOUND IN RETAIL FACILITIES.
B. RETAIL MAIN EQUIPMENT ROOM (RMER): THE RMER SERVES AS A COMMON NETWORK DISTRIBUTION POINT FOR THE TELECOMMUNICATIONS ROOMS OR TELECOMMUNICATIONS ENCLOSURES WITHIN THAT BUILDING.
C. RETAIL TELECOMMUNICATIONS ROOMS (RTR): A RTR SERVES AS A HORIZONTAL CABLING DISTRIBUTION POINT FOR A GIVEN AREA.
D. STAND ALONE ATM: SMALL ROOM ADJOINING OR BEHIND THE FRONT OF THE ATMS AS A HORIZONTAL CABLING DISTRIBUTION POINT FOR A LIMITED AMOUNT OF CABLES.
E. TELECOMMUNICATIONS ENCLOSURE (TE): A TE SERVES AS A HORIZONTAL CABLING DISTRIBUTION POINT FOR A LIMITED AMOUNT OF CABLES.
H. GUIDELINES FOR QUANTITY AND LOCATION OF CRITICAL TECHNOLOGY SPACES.
1. RMER:
a. ONE PER FACILITY, CENTRALLY LOCATED AS MUCH AS POSSIBLE, TO SERVE UP TO 10,000 SQUARE FEET OF SPACE ON THE SAME3.1 FLOOR/LEVEL.
2. RTR:
a. ONE PER ADDITIONAL FLOOR/LEVEL THAT THE RMER DOES NOT SERVE, CENTRALLY LOCATED AS MUCH AS POSSIBLE.
b. ONE PER ADDITIONAL 10,000 SQUARE FEET THAT THE RMER DOES NOT SERVE, CENTRALLY LOCATED AS MUCH AS POSSIBLE FOR3.2 THE AREA SERVED.
3. TE:
a. ONLY TO BE USED WITHIN A STAND-ALONE ATM DESIGN (NON-STAFFED LOCATION WITH ONLY ONE OR TWO ATMS).

1

SECTION 27 00 00 COMMUNICATIONS INTRODUCTORY STANDARD

PART 1 - GENERAL

- 1.1 DESCRIPTION
A. THIS SPECIFICATION PROVIDES THE REQUIREMENTS FOR ALL STRUCTURED CABLING INSTALLATION CONTRACTORS.
1.2 INSTALLATION CONTRACTOR REQUIREMENTS
A. CERTIFICATIONS/TRAINING
1. THE CONTRACTOR MUST HAVE FIVE YEARS MINIMUM EXPERIENCE IN STRUCTURED CABLING INSTALLATIONS.
2. THE CONTRACTOR SHALL BE CERTIFIED BY THE MANUFACTURER OF THE SPECIFIED STRUCTURED CABLING IN ORDER TO PROVIDE THE MINIMUM TRENTY (20) YEAR EXTENDED PRODUCT AND APPLICATIONS ASSURANCE WARRANTY ON PARTS AND LABOR ASSOCIATED WITH THE UTP AND FUTP CABLING INFRASTRUCTURE.
3. THE CONTRACTOR SHALL BE A CORNING CERTIFIED CONTRACTOR IN ORDER TO PROVIDE A MINIMUM TWENTY (20) YEAR EXTENDED PRODUCT AND APPLICATIONS ASSURANCE WARRANTY ON PARTS AND LABOR ASSOCIATED WITH THE FIBER CABLING INFRASTRUCTURE.
4. THE CONTRACTOR MUST HAVE AT LEAST ONE EMPLOYEE THAT IS A BICSI CERTIFIED INSTALLER 1, INSTALLER 2, OR TECHNICIAN ON SITE DURING THE INSTALLATION OF STRUCTURED CABLING.
B. UNION AFFILIATION
1. IF REQUIRED BASED ON THE LOCATION OF THE PROJECT, THE CONTRACTOR SHALL BE A MEMBER OF THE LOCALLY RECOGNIZED UNION. THIS MAY INCLUDE, BUT NOT LIMITED TO, IBEW OR CWA.
1.3 APPROVED CONTRACTORS
A. PREFERRED CABLING CONTRACTOR MASTER LIST
1. JPMC UTILIZES A LIST OF PRE-QUALIFIED CONTRACTORS TO PERFORM ALL STRUCTURED CABLING INSTALLATIONS.
2. JPMC'S STRUCTURED CABLING DESIGN TEAM MAINTAINS THE PREFERRED CABLING CONTRACTOR MASTER LIST THAT IDENTIFIES CABLING CONTRACTORS THAT ARE PROPERLY AND TECHNICALLY QUALIFIED TO INSTALL PRODUCTS SPECIFIED WITHIN THIS STANDARD.
B. SUBCONTRACTORS
1. JPMC STRUCTURED CABLING PROJECTS AS DEFINED BY THIS STANDARD SHALL ONLY BE IMPLEMENTED BY CONTRACTORS ON THE PREFERRED CABLING CONTRACTOR MASTER LIST.
C. NEW CONTRACTOR PROBATION
1. A CONTRACTOR THAT HAS BEEN ADDED TO THE PREFERRED CONTRACTOR LIST IS AUTOMATICALLY PLACED ON PROBATION.
D. EXISTING CONTRACTOR PROBATION
1. AN EXISTING CONTRACTOR PROBATION EVENT OCCURS WHEN THE STRUCTURED CABLING DESIGN TEAM DETERMINES, IN THEIR SOLE DISCRETION, THAT THE CONTRACTOR HAS FAILED TO ADHERE TO INSTALLATION REQUIREMENTS AS DEFINED BY THE RETAIL STRUCTURED CABLING DESIGN STANDARD AND AFFILIATED DOCUMENTS.
E. OTHER CONTRACTOR CHANGES
1. UPON UNANIMOUS VOTE BY THE STRUCTURED CABLING TEAM, CONTRACTOR MAY BE REMOVED FROM THE PREFERRED CONTRACTOR LIST AT THE SOLE DISCRETION OF THE JPMC STRUCTURED CABLING TEAM AT ANY TIME, AND WITHOUT ADVANCE NOTICE BY JPMC.
1.4 OTHER CONTRACTOR REQUIREMENTS
A. OMISSIONS
1. CONTRACTOR OMISSION OF ANY REQUIREMENT DESCRIBED IN PROJECT DOCUMENTS SHALL NOT BE CONSTRUED AS TO RELIEVE CONTRACTOR OF ANY RESPONSIBILITY OR OBLIGATION REQUIRED TO AFFECT THE COMPLETE AND SATISFACTORY DELIVERY, OPERATION, AND SUPPORT OF ANY AND ALL MATERIALS OR SERVICES.
B. CONTRACTOR ADVERTISING
1. CONTRACTOR SHALL NOT SOLICIT WRITTEN OR VERBAL TESTIMONIALS FROM JPMC PERSONNEL AT ANY TIME.
PART 2 - PRODUCTS
2.1 GENERAL MATERIAL REQUIREMENTS
A. NEW MATERIALS
1. ALL CABLE AND MATERIALS SHALL BE NEW, UNLESS PREVIOUSLY APPROVED IN WRITING BY OPR. NEW EQUIPMENT AND MATERIALS SHALL BE WITHOUT BLEMISH OR DEFECT.
B. EQUIVALENTS
1. IT IS THE SOLE RESPONSIBILITY OF THE CONTRACTOR TO ENSURE THAT ALL PRODUCTS INSTALLED AT THIS FACILITY ARE COMPATIBLE WITH THE APPLICATION.
C. SUBSTITUTIONS
1. MATERIALS SHALL BE AS LISTED. NO SUBSTITUTIONS ARE ALLOWED WITHOUT WRITTEN CONSENT FROM THE JPMC STRUCTURED CABLING ENGINEERING TEAM.
PART 3 - EXECUTION
3.1 PROTECTION OF PROPERTY
A. EXTREME CARE SHALL BE TAKEN BY CONTRACTOR TO PROTECT ALL COMPONENTS OF THE PROPERTY FROM DAMAGE.
B. IT IS CONTRACTOR'S SOLE RESPONSIBILITY TO SECURE, READ AND UNDERSTAND ALL RELEVANT JPMC STANDARDS, AND EXECUTE INSTALLATIONS IN ACCORDANCE WITH SAID STANDARDS.
3.2 DOCUMENTATION
A. UPON REQUEST BY JPMC, THE CONTRACTOR SHALL PROVIDE PROOF OF ANY CERTIFICATIONS, TRAINING, OR UNION AFFILIATIONS. END OF SECTION

2

SECTION 27 05 00 - QUALITY ASSURANCE FOR STRUCTURED CABLING

JPMORGAN CHASE & Co. GLOBAL TECHNOLOGY INFRASTRUCTURE END USER SERVICES WORKPLACE & DATA CENTER SERVICES STRUCTURED CABLING ENGINEERING 1111 POLARIS PARKWAY, COLUMBUS, OHIO 43240

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END OF SECTION



PART 1 - GENERAL

- 1.1 DESCRIPTION
A. THIS SPECIFICATION PROVIDES THE REQUIREMENTS FOR FINAL CLEANING OF TECHNOLOGY SPACES...
1.2 STANDARDS OF OPERATION
A. CLEANING PERSONNEL ARE REQUIRED TO OBSERVE THE TECHNOLOGY ROOM STANDARDS OF OPERATIONS AT ALL TIMES...

PART 2 - PRODUCTS

- 2.1 APPROVED EQUIPMENT & MATERIALS
A. THE CONTRACTOR WILL USE THE FOLLOWING APPROVED EQUIPMENT AND SUPPLIES:
1. TRIPLE-FILTRATION HIGH-EFFICIENCY PARTICULATE AIR (HEPA) OR S-CLASS VACUUMS...
2. CLEANING CHEMICALS THAT ARE PH NEUTRAL, STATIC DISSIPATIVE...
3. MATERIAL SAFETY DATA SHEETS MUST BE PROVIDED TO THE OWNER...
4. CANNED AIR
5. LINT-FREE MOPS THAT ARE APPROVED OR QUALIFIED BY COMPUTER HARDWARE MANUFACTURERS...

PART 3 - EXECUTION

- 3.1 EQUIPMENT CLEANING PROCEDURES
A. A HEPA VACUUM WILL BE USED TO CLEAN THE HORIZONTAL SURFACES OF ALL EQUIPMENT.
B. CLOTHS TREATED WITH ANTISTATIC PROPERTY CHEMICAL WILL BE USED TO WIPE DOWN ALL EXTERNAL SURFACES...
C. CHEMICALS WILL NOT BE SPRAYED DIRECTLY ONTO EQUIPMENT.
D. KEYBOARDS WILL NOT BE TOUCHED DURING CLEANINGS.
E. CLEANING ACTIVITIES SHOULD GENERALLY PROGRESS DOWNWARD FROM THE CEILING AND OUTWARD FROM THE ROOM'S AIR HANDLERS.
3.2 HIGH LEVEL CLEANING PROCEDURES
A. ALL CABLE TRAYS, LADDER RACKS, UNISTRUT, BEAMS, ETC. TO BE BLOWN THROUGH WITH COMPRESSED AIR...
3.3 LOW LEVEL CLEANING PROCEDURES
A. VACUUM SURFACE DUST AND PARTICLES FROM THE TOP OF ALL RACEWAYS AND CABLE TRAYS...
B. MAKE NOTE OF ANY UNUSUAL CONDITIONS--LOOSE BRACKETS, DAMAGED CABLE BUNDLES, CONDENSATION...
3.4 CLEANING OF TECHNOLOGY CABINETS/RACKS
A. WIPE DOWN THE EXTERNAL SURFACES OF ALL CABINETS USING LINT-FREE CLOTHS TREATED WITH ANTISTATIC CHEMICAL...
B. USE CANNED AIR TO DISLUDGE DUST IN AREAS THAT CANNOT BE REACHED BY HAND.
3.5 FLOOR SURFACE CLEANING PROCEDURES
A. WHEN CLEANING THE RAISED FLOOR, AVOID DISTURBING ANY CABLES THAT ARE ROUTED THROUGH THE NOTCHED OPENING...
B. VACUUM SURFACE DUST AND PARTICLES FROM THE TOP OF ALL ACCESSIBLE PORTIONS OF THE FLOOR...
C. TREAT SMUDGES, STAINS, BLACK MARKS, AND SO ON, WITH AN APPROVED SOLUTION AND SCRUB WITH A MEDIUM-GRADE SCRUB PAD...
D. LAST, MOP THE FLOOR WITH A DAMP--NOT WET--MOP USING CLEAN, WARM WATER. USE A TWO-BUCKET SYSTEM...

END OF SECTION

SECTION 27 05 03 TECHNOLOGY SPACE CLEANING

3

PART 1 - GENERAL

- 1.1 DESCRIPTION
A. JPMC'S REAL ESTATE GROUP IS RESPONSIBLE FOR PROPER INSTALLATION OF A GROUNDING (EARTHING) BACKBONE THAT HAS BEEN DESIGNED AND INSTALLED IN ACCORDANCE WITH J-STD-607 OR EQUIVALENT REGIONAL STANDARD...
B. ALL BONDING AND GROUNDING (EARTHING) SHALL TRACK METHODS AND PROCEDURES DESCRIBED IN J-STD-607 OR EQUIVALENT REGIONAL STANDARD.

PART 2 - PRODUCTS

- 2.1 MATERIALS
A. COMPONENTS: SEE THE GROUNDING SCHEMATIC ON DRAWINGS FOR MANUFACTURERS AND PART NUMBERS.
B. ALL GROUNDING/BONDING CONDUCTORS SHALL BE COPPER (NO ALUMINUM ALLOWED).

PART 3 - EXECUTION

- 3.1 SEE THE GROUNDING SCHEMATIC ON DRAWINGS FOR CONTRACTOR REQUIREMENTS.

END OF SECTION

SECTION 27 05 26 - GROUNDING AND BONDING FOR STRUCTURED CABLING

4

PART 1 - GENERAL

- 1.1 DESCRIPTION
A. SYSTEM ACCEPTANCE SHALL BE WITHHELD UNTIL OPR HAS REVIEWED AND APPROVED ALL LABELING AS DEFINED ELSEWHERE IN THIS SECTION.
B. IN CASES WHERE 100 PERCENT OF THE CABLING INFRASTRUCTURE IS NEW, ALL LABELING SHALL BE PERFORMED IN ACCORDANCE WITH THIS SECTION 27 05 53. IN CASES WHERE NEW INFRASTRUCTURE IS BEING ADDED TO AN EXISTING (LEGACY) INFRASTRUCTURE...
C. BECAUSE THE CABLE INFRASTRUCTURE IS A COMPREHENSIVE, INTEGRATED DESIGN, PROPER AND COMPREHENSIVE LABELING IS CRITICAL. TO ENSURE THE SUCCESS OF THIS COMPONENT OF THE SYSTEM DESIGN, ALL LABELS SHALL BE FULLY COMPLIANT WITH THE REQUIREMENTS SET FORTH IN THIS SECTION. CONTRACTOR IS RESPONSIBLE FOR FURNISHING AND INSTALLING ALL LABELS AND LABEL HOLDERS AS SPECIFIED HEREIN.
D. ALL LABELS SHALL BE INSTALLED IN ACCORDANCE WITH INFORMATION CONTAINED IN PROJECT DRAWINGS AND AS SPECIFIED IN THIS SECTION.
E. THIS SPECIFICATION SETS FORTH GENERAL REQUIREMENTS FOR INFRASTRUCTURE IDENTIFICATION, NOT SPECIFIC NUMBERING SCHEMES. BEFORE THE LABELING PROCESS BEGINS, CONTRACTOR SHALL SUBMIT A WRITTEN PLAN THAT INCLUDES SPECIFIC NUMBERING SEQUENCES FOR EACH TELECOMMUNICATIONS ELEMENT, AND SHALL NOT PROCEED WITH THE PLAN UNTIL OPR FURNISHES WRITTEN APPROVAL OF SAID PLAN WHICH MAY CONTAIN STANDARDS-BASED MODIFICATIONS.

PART 2 - PRODUCTS

- 2.1 GENERAL MATERIAL REQUIREMENTS
A. ALL LABELS SHALL BE INDELIBLE, PRE-PRINTED (NOT HAND-WRITTEN), AND PERMANENT, USING BRADY PRINTER OR EQUIVALENT, ARIAL FONT OR EQUIVALENT. THE TEXT COLOR SHALL BE BLACK WITH A WHITE BACKGROUND, UNLESS AFFIXED ON A BLACK SURFACE, IN WHICH CASE THE LABEL BACKGROUND SHALL BE BLACK AND TEXT SHALL BE WHITE.

PART 3 - EXECUTION

- 3.1 SYSTEM DESCRIPTION
A. THE FOLLOWING INFRASTRUCTURE COMPONENTS SHALL BE INCLUDED AND FULLY LABELED IN THE IDENTIFICATION SCHEMA:
1. INFORMATION OUTLET FACEPLATES
2. HORIZONTAL CABLING
3. COPPER PATCH PANELS
4. BACKBONE CABLING
5. FIBER PATCH PANELS
6. RACKS
7. POWER DISTRIBUTION UNITS AND POWER STRIPS
8. IT EQUIPMENT ASSET TAGS
9. CONDUIT AND SLEEVE PATHWAYS
3.2 INFORMATION OUTLET FACEPLATES
A. EACH INFORMATION OUTLET IDENTIFIER SHALL BE NUMBERED IN ACCORDANCE WITH THE FACEPLATE LABELING CONFIGURATION DETAIL, USING PAPER LABELS AND CLEAR WINDOWS INCLUDED WITH EACH APPROPRIATE INFORMATION OUTLET FACEPLATE. WHERE CLEAR WINDOWS ARE NOT APPLICABLE, CONTRACTOR SHALL COORDINATE A COMPLIANT LABEL THAT IS RESISTANT TO DAMAGE OR DEGRADATION OVER TIME (E.G. VINYL). TEXT HEIGHT AND POSITIONING SHALL BE IN ACCORDANCE WITH THE FACEPLATE LABELING CONFIGURATION DETAIL.
B. VOICE AND DATA OUTLETS SHALL BE LOCATED IN EACH FACEPLATE IN ACCORDANCE WITH THE FACEPLATE LABELING CONFIGURATION DETAIL.
3.3 HORIZONTAL CABLING
A. LABELS TO BE AFFIXED AT EVERY USED PATCH PANEL AND ON EACH HORIZONTAL CABLE ON BOTH ENDS.
1. NOMENCLATURE: X#Y##
a. WHERE X = RMR/RTR DESIGNATION, USE "M" FOR RMR AND "T" FOR RTR.
b. WHERE # = RACK DESIGNATION (NUMERIC).
c. WHERE Y = A SINGLE SEQUENTIAL ALPHA CHARACTER, BEGINNING WITH "A", IDENTIFYING THE PATCH PANEL.
d. WHERE ## = TWO-DIGIT SEQUENTIAL NUMBER BEGINNING WITH "01", IDENTIFYING PATCH PANEL PORT NUMBER.
B. COPPER PATCH PANEL PORT IDENTIFICATION SHALL BE FULLY COMPLIANT WITH THE FACEPLATE LABELING CONFIGURATION DETAIL.
C. IF LABEL IS AFFIXED TO A BLACK OR DARK GRAY SURFACE, LABEL INFORMATION SHALL BE WHITE IN COLOR. IF LABEL IS AFFIXED TO BEIGE OR LIGHT-COLORED SURFACE, LABEL INFORMATION SHALL BE BLACK IN COLOR.
D. COPPER PATCH PANEL LABELS SHALL EMPLOY MANUFACTURER-SUPPLIED LABELING MATERIALS AND COVERS (IF APPLICABLE), AFFIXED TO EACH PANEL IN ACCORDANCE WITH MANUFACTURER SPECIFICATIONS.
E. COPPER PATCH PANEL LABELS SHALL BE WHITE IN COLOR.
3.4 BACKBONE CABLING
A. THE CABLE SHALL BE LABELED ON BOTH ENDS.
B. NOMENCLATURE: SOURCE = X-#-ZZ AND DESTINATION = X-Y-ZZ-####-TTT
1. WHERE X = RMR OR RTR DESIGNATION.
2. WHERE # = RACK DESIGNATION.
3. WHERE ZZ = PATCH PANEL DESIGNATION (RACK UNIT # FROM UPPER LEFT CORNER WHEN PANEL IS INSTALLED).
4. WHERE #### = STARTING STRAND NUMBER/END STRAND NUMBER.
5. WHERE TTT = FIBER TYPE, OM2, OM3, OR OM4 FOR MULTIMODE OR OS2 FOR SINGLE MODE.
C. WHERE ROUTE DIVERSITY IS EMPLOYED DESIGNATION STRIPS LOCATED ON TERMINATION PANELS FOR EACH ROUTE SHALL BE OF DISTINCTLY DIFFERENT COLORS.

3.5 FIBER PATCH PANELS

- A. THE PATCH PANEL SHALL BE LABELED ON THE FRONT DOOR.
1. NOMENCLATURE: ZZ
a. WHERE ZZ = PATCH PANEL DESIGNATION (RACK UNIT # FROM THE UPPER LEFT CORNER WHERE THE PANEL IS INSTALLED).
b. WITHIN THE PATCH PANEL (BEHIND THE FRONT DOOR).
c. NOMENCLATURE: SOURCE = X-#-ZZ AND DESTINATION = ZZ-####-TTT
d. WHERE X = RMR DESIGNATION, WHICH IS "M".
e. WHERE # = RACK DESIGNATION.
f. WHERE ZZ = PATCH PANEL DESIGNATION (RACK UNIT # FROM UPPER LEFT CORNER WHEN PANEL IS INSTALLED).
g. WHERE #### = STARTING STRAND NUMBER/END STRAND NUMBER.
h. WHERE TTT = FIBER TYPE, OM2, OM3, OR OM4 FOR MULTIMODE OR OS2 FOR SINGLE MODE.

3.6 RACKS

- A. LABELS TO BE AFFIXED TO TOP FRONT AND TOP REAR OF RACK
1. NOMENCLATURE: X#
a. WHERE X = RMR/RTR DESIGNATION, USE "M" FOR RMR AND "T" FOR RTR.
b. WHERE # = RACK DESIGNATION (NUMERIC)
c. TYPE: 1.5 IN. (38 MM) TEXT; MACHINE PRINTED TEXT. BLACK TEXT ON WHITE BACKGROUND.

3.7 POWER DISTRIBUTION UNITS AND POWER STRIPS

- A. POWER DISTRIBUTION UNITS AND STRIPS SHALL BE LABELED WITH THE BREAKER PANEL ID AND CIRCUIT NUMBER IT IS SERVED FROM.

3.8 IT EQUIPMENT ASSET TAGS

- A. ALL POWERED IT EQUIPMENT, ASIDE FROM AUDIO-VISUAL OR CARRIER EQUIPMENT MUST BE LABELED WITH THE DEVICES HOSTNAME AND A YELLOW ASSET TAG ON THE FRONT (COLD AISLE) SIDE OF THE DEVICE. A MACHINE GENERATED LABEL INDICATING THE SERIAL NUMBER OF THE DEVICE SHALL ALSO BE PLACED ON THE FRONT (COLD AISLE) SIDE OF THE DEVICE. ALL RACKS MUST HAVE A YELLOW ASSET TAG AT THE TOP FRONT IN A VISIBLE AREA THAT CAN BE EASILY ACCESSED WITH A BARCODE SCANNER.

- B. THESE ASSET TAGS WILL BE PROVIDED BY SOMEONE OTHER THAN THE STRUCTURED CABLING CONTRACTOR.

3.9 CONDUIT AND SLEEVE PATHWAYS

- A. CONDUIT PATHWAY LABELING SHALL BE LABELED AS FOLLOWS.
1. 1.5 IN. (38 MM) TALL TEXT PLACED IN VISIBLE LOCATION ON PLASTIC BUSHING OR ON THE CONDUIT ITSELF NEAR THE END.
2. NOMENCLATURE <SIZE>-<PATH AB>-TO-<DISTANT END ROOM ID>. EXAMPLE: 4" A TO I-1
B. SLEEVE PATHWAY LABELING SHALL BE LABELED AS FOLLOWS.
1. 1.5 IN. (38 MM) TALL TEXT PLACED IN VISIBLE LOCATION ON PLASTIC BUSHING OR ON THE SLEEVE ITSELF NEAR BOTH ENDS.
2. NOMENCLATURE <SIZE>-<PATHWAY TYPE>. EXAMPLE: 4" SLEEVE

END OF SECTION

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SECTION 27 05 53 IDENTIFICATION FOR STRUCTURED CABLING

5



PART 1 - GENERAL

1.1 DESCRIPTION

- A. THIS SECTION INCLUDES INSIDE PLANT MULTIMODE FIBER, OUTSIDE PLANT MULTIMODE FIBER, SINGLE MODE FIBER FOR CARRIER CIRCUIT EXTENSION, AND CATEGORY 6 CABLES FOR CARRIER CIRCUIT EXTENSION.
B. ALL RETAIL STANDARDS REGARDING IDENTIFICATION APPLY TO THIS SECTION. SEE 27 05 53 OF THIS STANDARD FOR ADDITIONAL DETAIL.
C. THE NATIONAL ELECTRIC CODE DEFINES DISTANCE LIMITATIONS FOR OSP CABLE RUNS WITHIN BUILDINGS NOT IN CONDUIT, AT 50 FT. MAXIMUM. ALL SUCH REQUIREMENTS SHALL BE COMPLIED WITH AT ALL JPMC FACILITIES.
D. EXTENDED NETWORK CABLES ARE TYPICALLY COMPRISED OF SIX 4-PAIR CATEGORY 6 CABLES, OR VIA 12-STRAND SINGLE-MODE FIBER IF THE SERVICE IS SWITCHED ETHERNET.
E. EXCEPT FOR THE PURPOSES OF EXTENDING T.1, SWITCHED ETHERNET, OR ANALOG SERVICES, IN NO CASE SHALL CATEGORY 6 CABLE RUNS EXCEED 90M (295 FT) IN LENGTH. IN CASES WHERE T.1 SERVICE IS EXTENDED OVER CATEGORY 6 CABLES, THE CABLE DISTANCE SHALL NOT EXCEED 677 FT.
F. SWITCHED ETHERNET SERVICE IS EXTENDED OVER SINGLE-MODE FIBER BY THE CARRIER TO THE JPMC RMER. PRIMARY SERVICE (CIRCUIT) SHALL BE ROUTED UNDERGROUND IN TWO 2" SCHEDULE 80 PVC CONDUITS. ONCE THE CONDUIT ENTERS THE BUILDING, IF OVER 50 FEET FROM THE ENTRANCE AND WITHIN JPMC CONTROLLED SPACE TRANSITION TO EMT CONDUIT. TERMINATE CONDUIT IN THE RMER. SECONDARY SERVICE (CIRCUIT) IS CELLULAR. PROVIDE EMT CONDUIT FROM THE CELLULAR DONOR ANTENNA LOCATION TO THE RMER, IF THE ANTENNA LOCATION IS ON THE ROOF OR OUTSIDE. IF CONDUITS ARE RUN INSIDE THE BUILDING BUT OUTSIDE OF JPMC CONTROLLED SPACE, TRANSITION IS REQUIRED TO RMC THROUGH NON-JPMC SPACE.
G. EXTENDED NETWORK CABLES ARE USED TO EXTEND ANALOG DIAL TONE SERVICE AND/OR HIGH-SPEED DATA (E.G. T-1, SWE) SERVICE FROM THE ILEC'S PRESENCE IN THE BUILDING TO THE JPMC RMER.
H. THIS SPECIFICATION CONTAINS ALL PRODUCTS CURRENTLY APPROVED BY JPMC. THE CONTRACTOR SHOULD NOT ASSUME THAT ALL OF THE MATERIALS LISTED IN THE SPECIFICATIONS MUST BE INSTALLED BECAUSE THEY ARE LISTED IN THE SPECIFICATION. PROJECT-SPECIFIC REQUIRED MATERIALS ARE FURTHER DEFINED IN THE PROJECT CONSTRUCTION DRAWINGS.

PART 2 - PRODUCTS

2.1 GENERAL FIBER CABLING REQUIREMENTS

- A. CABLE RATING
1. LOCAL OR NATIONAL CODES MAY REQUIRE SPECIFIC CABLE GRADING IN SPECIFIC APPLICATIONS. IT IS CONTRACTOR'S RESPONSIBILITY TO INSTALL CABLE THAT IS APPROPRIATE TO THE ENVIRONMENT. IF CONTRACTOR INSTALLS CABLE THAT IS INAPPROPRIATE TO THE ENVIRONMENT (E.G. RISER-RATED CABLE IN SPACES THAT REQUIRE PLENUM CABLE), CONTRACTOR SHALL BE EXPECTED TO REMOVE THE INAPPROPRIATE CABLE AND INSTALL APPROPRIATE CABLE AT THEIR SOLE EXPENSE.
B. TERMINATION TYPE
1. ONLY FACTORY TERMINATED FIBER PATCH CORDS MAY BE UTILIZED IN JPMC FACILITIES. FIBER PATCH CORDS CREATED BY PERSONNEL NOT DIRECTLY EMPLOYED BY THE MANUFACTURER IS NOT PERMISSIBLE.
2. FIELD-TERMINATED CONNECTORS FOR THE FIBER BACKBONE IS THE PREFERRED TERMINATION METHOD. FUSION-SPLICED OR CORNING UNICAM TERMINATIONS ARE PERMITTED.
3. MULTIMODE & SINGLE MODE FIBER SHALL BE TERMINATED INTO LC CONNECTORS UNLESS NOTED OTHERWISE.
C. CABLE JACKETING
1. CABLE JACKETING MAY OR MAY NOT BE ARMORED, DEPENDING UPON THE ENVIRONMENT AND THE APPLICATION.
a. NON-ARMORED CABLE SHALL BE USED WHEN THE FIBER WILL BE INSTALLED WITHIN CONDUIT OR FOR A POINT-TO-POINT CONNECTION WITHIN THE RMER.
b. ARMORED CABLE SHALL BE USED WHEN THE FIBER IS NOT INSTALLED WITHIN CONDUIT.
D. CABLE GRADE
1. OM3 MULTIMODE BACKBONE FIBER SHALL BE USED FOR CABLE DISTANCES UP TO 300M (984FT.).
2. SINGLE MODE BACKBONE FIBER SHALL BE USED FOR DISTANCE GREATER THAN 300M (984FT.) OR FOR TELECOMMUNICATIONS CARRIER CIRCUIT EXTENSIONS.
3. SINGLE MODE & CATEGORY 6 SHALL BE USED FOR TELECOMMUNICATIONS CARRIER CIRCUIT EXTENSIONS.

2.2 MATERIALS

- A. SEE THE CABLE SCHEDULE AND RACK EQUIPMENT SCHEDULE ON THE CONSTRUCTION DRAWINGS FOR MANUFACTURERS AND PART NUMBERS FOR THE FOLLOWING EQUIPMENT:
1. SINGLE MODE FIBER MATERIALS (FOR EXTENSION OF CARRIER CIRCUIT)
2. FIBER TERMINATION PANELS.
3. MULTIMODE FIBER MATERIALS (FOR BACKBONE TO A RTR IF APPLICABLE)

PART 3 - EXECUTION

3.1 GENERAL CABLING INSTALLATION

- A. SLEEVES SHALL NOT BE OVER-POPULATED WITH CABLES. SUFFICIENT SPARE CAPACITY SHALL BE ALLOWED IN EACH SLEEVE TO ACCOMMODATE APPROPRIATE FIRESTOPPING MATERIALS IN ACCORDANCE WITH MANUFACTURER SPECIFICATIONS AND THE UL FIRE RESISTANCE DIRECTORY. NOTE THAT MANUFACTURERS TYPICALLY SPECIFY A 20% TO 40% FILL FOR THEIR PRODUCTS.
B. MANUFACTURER'S STANDARD PULLING TENSION AND MINIMUM BEND RADII SHALL BE COMPLIED WITH AT ALL TIMES. CABLES SHALL BE DRESSED-IN, VELCRO® OR MILLEPEDE® MILLE-TIES RELEASABLE CABLE TIED, AND SECURED TO THE LADDER RACK, PLYWOOD BACKBOARD, AND/OR OTHER SUITABLE SURFACES SO AS TO ENSURE A PROFESSIONAL APPEARANCE, RUN STRAIGHT, LEVEL, AND ALIGNED WITH BUILDING LINES, WITH 90° CORNERS WHERE POSSIBLE, BEARING IN MIND MANUFACTURER'S RECOMMENDED BEND RADII.
C. CONTRACTOR SHALL FURNISH AND INSTALL ADEQUATE CABLE STRAIN RELIEF (E.G. CABLE DROPOUTS) TO ACCOMMODATE THE ANTICIPATED MAGNITUDE OF CABLING. WHEREVER FIBER AND COPPER CABLES ARE SEGREGATED, DEDICATED MULTIMODE STRAIN RELIEF SHALL BE PROVIDED, INCLUDING ADEQUATE PROVISION FOR CABLE ROUTE DIVERSITY WHERE APPLICABLE.

3.2 FIBER CABLING INSTALLATION

- A. AFTER FIBER CABLE HAS BEEN SUCCESSFULLY TESTED IN ACCORDANCE WITH THIS STANDARD, ALL CONNECTOR DUST COVERS SHALL BE SECURELY RESTORED.
B. EMPTY ADAPTER PANEL PORTS SHALL BE EQUIPPED WITH BLANK PANELS.
C. ALL FIBER STRANDS ARE TERMINATED INTO LC PATCH PANELS AT BOTH ENDS UNLESS NOTED OTHERWISE.
D. IN SPACES WHERE ANY AIRBORNE DUST OR CONTAMINANTS MAY BE PRESENT, ESPECIALLY DURING CONSTRUCTION, CONTRACTOR SHALL FULLY AND PROPERLY PROTECT ANY AND ALL CONNECTORIZED CABLES TO AVOID TRANSMISSION PERFORMANCE DEGRADATION ASSOCIATED WITH DUST COMING IN CONTACT WITH CONNECTOR CONTACT POINTS. IF AT ALL POSSIBLE, AND WHERE ALLOWED BY THE PROJECT TIMELINE, CONTRACTOR'S FIRST CHOICE SHOULD BE TO AVOID THIS PROBLEM BY REFRAINING FROM INSTALLING ANY SUCH COMPONENTS UNTIL THE RISK OF AIRBORNE DUST AND CONTAMINANTS IS ELIMINATED (E.G. AFTER FLOORS AND CEILINGS ARE TREATED, AND WALLS RECEIVE THE FINAL COAT OF PAINT).

3.3 CARRIER CIRCUIT EXTENSION INSTALLATION

- A. CARRIER CIRCUIT EXTENSION CABLES SHALL BE INSTALLED BY CONTRACTOR. THE CABLE TERMINATIONS MAY BE PERFORMED EITHER BY CONTRACTOR, OR BY THE ILEC, DEPENDING UPON THE CUSTOMARY PRACTICE IN THAT ILEC'S REGION. CONTRACTOR SHALL COORDINATE THIS PORTION OF THE PROJECT WITH OPR.
B. IF THE ROUTE FOR THE CARRIER CIRCUIT EXTENSION CABLES PASSES THROUGH SPACE THAT IS NOT CONTROLLED BY JPMC, IT IS VULNERABLE TO ACCIDENTAL OR INTENTIONAL SERVICE INTERRUPTION, AND SHOULD BE INSTALLED IN A PROPERLY-DESIGNED CONDUIT INFRASTRUCTURE. THE CONDUIT SIZING SHALL BE BASED ON A 40% FILL OF ALL CABLE TYPES BEING INSTALLED WITHIN THE CONDUIT.
C. IN THE RMER, THE CATEGORY 6 CABLE IS TYPICALLY TERMINATED INTO A SMART JACK OR NTE (CIENA AND BEASBOX) FURNISHED BY THE ILEC. IN THE UNLIKELY EVENT THAT THE SMART JACK IS NOT LOCATED IN THE RMER, CONTRACTOR SHALL COORDINATE CONNECTIVITY REQUIREMENTS WITH THE OPR.
D. CATEGORY 6 CABLES SHALL NOT BE KINKED OR UNDUPLY TWISTED, NOR SHALL THE INTEGRITY OF THE CABLE SHEATH BE COMPROMISED IN ANY FASHION. CABLE BUNDLES SHALL NOT BE CLINCHED OR TIED TOGETHER WITH EXCESSIVE FORCE, THEREBY HOLDING JACKET DEFORMATION TO A MINIMUM. INDIVIDUAL CABLE BEND RADII MAY BE NO LESS THAN FOUR TIMES THE CABLE DIAMETER OR 0.6 INCHES, WHICHEVER IS GREATER. TIE WRAPS SHALL NOT BE EMPLOYED FOR SECURING CATEGORY 6 CABLES.
DURING TERMINATION, UTP PAIR TWISTS SHALL BE MAINTAINED AS CLOSE AS POSSIBLE TO THE TERMINATION POINT. IN ANY CASE, THE AMOUNT OF UNTWISTING MUST NOT EXCEED .5 INCHES AT THE POINT OF TERMINATION.

PART 1 - GENERAL

1.1 DESCRIPTION

- A. CELLULAR ANTENNAS ARE DEPLOYED FOR BRANCHES.

PART 2 - PRODUCTS

2.1 MATERIALS

- A. JPMC'S CELLULAR ANTENNA DEPLOYMENT UTILIZES THE FOLLOWING MAJOR MATERIALS:
1. OUTDOOR OMNIDIRECTIONAL ANTENNA FOR 2G/3G/4G CELLULAR (JPMC SUPPLIED)
2. 4G LIGHTNING SUPPRESSORS/ARRESTORS FOR OUTDOOR ANTENNA INSTALLS
3. CEILING MOUNT BRACKET (JTECK) FOR INDOOR PANEL ANTENNA INSTALLS
4. DIRECTIONAL (PANEL OR LOG PERIODIC STYLE) ANTENNAS (JPMC SUPPLIED)
5. LMR-240 FLEXIBLE LOW LOSS COMMUNICATIONS COAX OR LMR-400 FLEXIBLE LOW LOSS COMMUNICATIONS COAX
6. TNC CONNECTORS (TO ROUTER), N CONNECTORS TO ANTENNA

PART 3 - EXECUTION

3.1 INSTALLATION

- A. CABLE & ANTENNA INSTALLATION
1. ROOFTOP INSTALLATION:
a. PERFORM RF ASSESSMENT FROM THE ROOF FOR VERIZON WIRELESS AND AT&T WIRELESS LTE SERVICE TO CONFIRM BANKING CENTER HAS A USEABLE LTE SIGNAL BY THE TIME IT REACHES JPMC ROUTER IN THE RETAIL MAIN EQUIPMENT ROOM (RMER);
1) GNS SIGNAL STRENGTH & QUALITY GUIDELINES:
a. RSSI: > -80 DBM (SIGNAL STRENGTH - LTE OR 3G)
NOTE: SS POWER CAN BE USED IN PLACE OF RSSI ON THE CELL SURVEY TO INDICATE SIGNAL STRENGTH. SS POWER READING MUST BE ≥ 97 DBM.
b. RSRP: > -105 DBM (SIGNAL STRENGTH SPECIFIC TO LTE)
c. RSRQ: > -13 DB (SIGNAL QUALITY SPECIFIC TO LTE)
d. SNR: > 5 DB (SIGNAL QUALITY - LTE OR 3G)
b. PERFORM INITIAL SPEED TESTS WITH A LTE MODEM TECHNOLOGY THAT IS EQUAL TO RETAIL NETWORK STANDARD (LTE CATEGORY 3, CATEGORY 6, OR CATEGORY 18). RECORD LOCAL FREQUENCY BANDS AND TRANSMIT/RECEIVE CHANNELS IN USE FOR EACH PROVIDER, FOR USE WITH MORE PRECISE TESTING EQUIPMENT. (I.E., ANRITSU DEVICE). CONTACT RETAIL NETWORK TEAM FOR CURRENT LTE STANDARD BEING USED.
c. PROVIDE JPMC REAL ESTATE WITH A RECOMMENDATION FOR ANTENNA PLACEMENT - JPMC TO APPROVE FINAL ANTENNA PLACEMENT PRIOR TO PLACEMENT
d. INSTALL (1) CELLULAR ANTENNA (TBD). INSTALL (1) LMR 240 (OR LMR 400) COAX CABLE FROM THE RMER/RTR TO THE LIGHTNING ARRESTOR LOCATION USING EXISTING ROOFTOP PENETRATION WHEREVER FEASIBLE
1) TERMINATE BOTH ENDS OF THE LMR 240 (OR LMR 400) COAX CABLE WITH THE LIGHTNING ARRESTOR PROTECTED END UTILIZING (TBD) CONNECTOR TO CISCO 819 END UTILIZING TNC-TYPE MALE CONNECTOR)
2) PROVIDE 2 FEET OF SLACK AT THE MIDPOINT OF THE VERTICAL CABLE MANAGER, TO ASSURE BEND RADIUS AND CONNECTIVITY TO THE ROUTER.
e. ATTACH THE ANTENNA-END OF THE CABLE TO THE CISCO 4G LIGHTNING ARRESTOR
f. EXTEND FROM SURGE PROTECTOR TO ANTENNA TO THE 4G COMPATIBLE LIGHTNING PROTECTOR.
1) TERMINATE BOTH ENDS OF THE LMR 240 (OR LMR 400) COAX CABLE WITH THE ANTENNA END UTILIZING N-TYPE MALE CONNECTOR, AND THE LIGHTNING ARRESTOR UNPROTECTED END UTILIZING TNC-TYPE MALE CONNECTOR).
g. GROUND THE SURGE PROTECTOR WITH A #6 AWG GROUND WIRE TO NEAREST GROUND SOURCE. THE GROUND CABLE MAY NOT EXCEED 20 INCHES.
h. WEATHERIZE ANY OUTDOOR CONNECTIONS AND FIRE-STOP ALL PENETRATIONS
2. CEILING-MOUNT INSTALLATION:
a. INSTALL (1) JPMC-SUPPLIED CELLULAR ANTENNA [COMMSCOPE CELLMAX-D-CPUSE-O] WITH CEILING MOUNT BRACKET JTECK (CMB-YAMB-1) AT JPMC-DESIGNATED LOCATION WITHIN THE BANKING CENTER, IN ACCORDANCE WITH THE MANUFACTURER'S GUIDELINES.
b. INSTALL (1) LMR 240 (OR LMR 400) COAX CABLE FROM THE RMER/RTR TO THE CELLULAR ANTENNA LOCATION
1) PROVIDE 2 FEET OF SLACK AT THE MIDPOINT OF THE VERTICAL CABLE MANAGER, TO ASSURE BEND RADIUS AND CONNECTIVITY TO THE ROUTER.
c. TERMINATE BOTH ENDS OF THE LMR 240 (OR LMR 400) COAX CABLE WITH THE ANTENNA END UTILIZING TNC-FEMALE CONNECTOR AND THE CISCO 819 END UTILIZING TNC-TYPE MALE CONNECTOR)

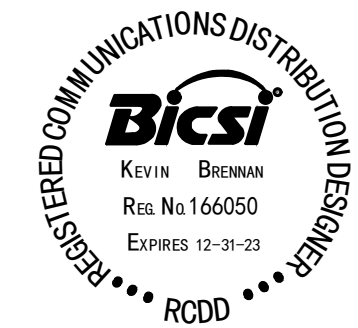
- B. TESTING/REMEDIATION/DOCUMENTATION
1. TEST COAXIAL (LMR 240 OR LMR 400) CABLE FROM ROUTER END TO ANTENNA END FOR; CONTINUITY, SHORTS, SIGNAL LOSS, ETC.
2. TEST RF SIGNAL STRENGTH/QUALITY AT THE RTR/RMER END OF THE CONNECTION DELIVERED BY ANTENNA
3. COMPARE SIGNAL LEVELS AT ROUTER TO DESIGN VALUES
4. REMEDIATE ANY SYSTEM ISSUES (ANTENNA OR CABLING) THAT DEVIATE FROM PLANNED VALUES
5. PROVIDE PHOTOS OF ANTENNA INSTALLATION AND RMER/RTR TERMINATION ALONG WITH FINAL TEST RESULTS FOR SWEEP AND RF SIGNAL LEVEL TESTS TO JPMC (REQUIREMENT FOR FINAL ACCEPTANCE)

END OF SECTION

NEW RETAIL BRANCH PRYOR RD. AND LOWENSTEIN DR.

keyplan

seal



issue

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site location JP MORGAN CHASE & CO 908 NW PRYOR RD LEE'S SUMMIT, MO 64081

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title TELECOM BOOK SPECS

job no. C60025810702

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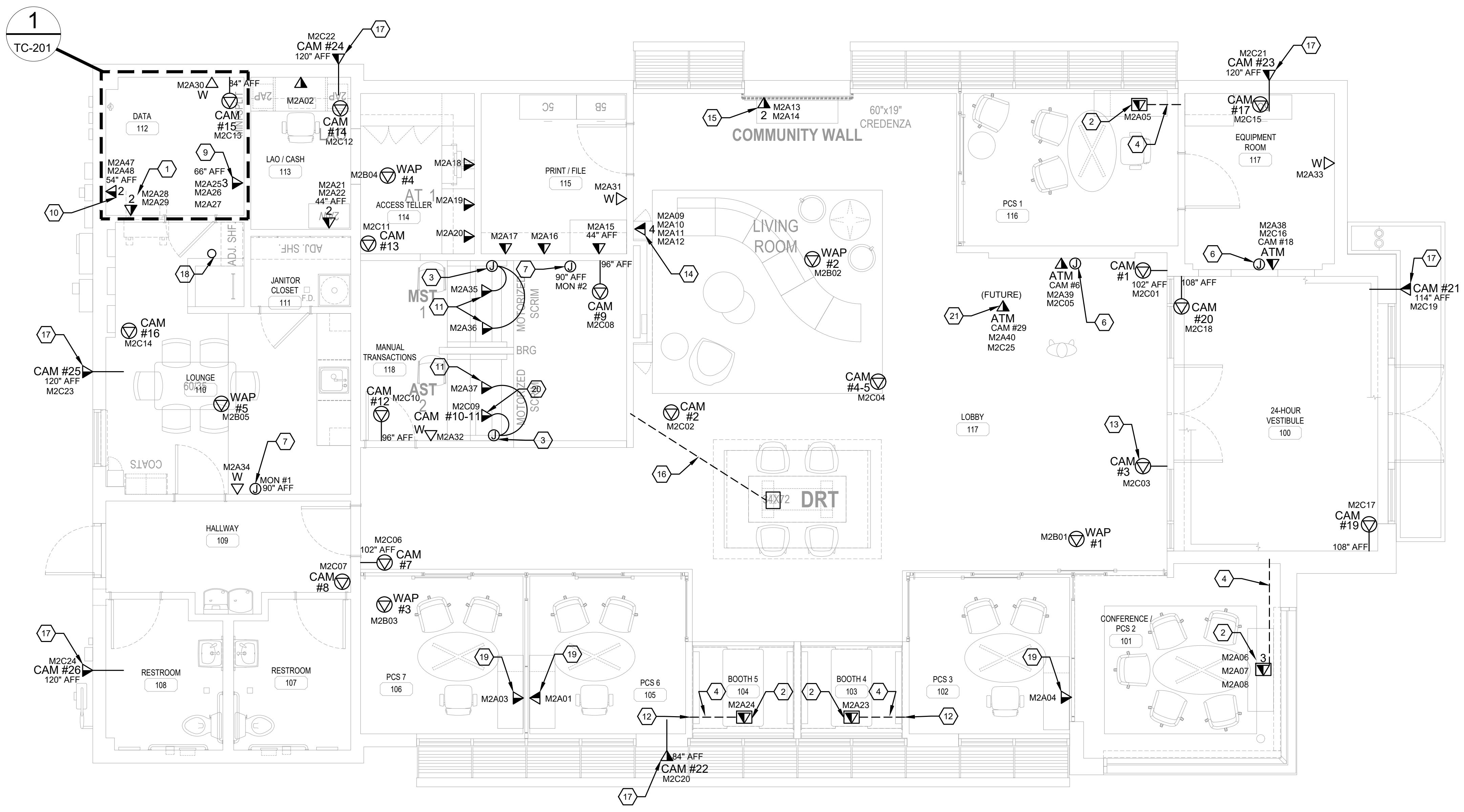
TC-004



**NEW RETAIL  
 BRANCH  
 PRYOR RD. AND  
 LOWENSTEIN DR.**

**TELECOMMUNICATIONS PLAN NOTES**

1. OUTLET FOR BUILDING AUTOMATION SYSTEM EQUIPMENT. COORDINATE THE EXACT LOCATION WITH THE BAS EQUIPMENT PRIOR TO ROUGH-IN.
2. FLOOR OUTLET MOUNTED WITHIN DUAL SERVICE POWER AND LOW VOLTAGE RECESSED BOX WITH 1" CONDUIT TO ABOVE ACCESSIBLE CEILING. REFER TO SHEET TC-000 FOR ADDITIONAL INFORMATION.
3. JUNCTION BOX WITH 1" CONDUIT TO ABOVE ACCESSIBLE CEILING FOR CABLING TO THE OUTLETS BENEATH THE TELLER COUNTER. CONCEAL CABLING FROM JUNCTION BOX TO OUTLET WITHIN FLEXIBLE CONDUIT. SEE ARCHITECTURAL DETAILS FOR MORE INFORMATION.
4. PROVIDE 1" CONDUIT UNDER SLAB TO WALL AS SHOWN. ROUTE CONDUIT CONCEALED WITHIN WALL AND STUB OUT TO ABOVE ACCESSIBLE CEILING. REFER TO OUTLET ROUGH-IN REQUIREMENTS ON SHEET TC-401.
5. PROVIDE 1" CONDUIT TO DUAL SERVICE POWER AND LOW VOLTAGE RECESSED BOX FOR TELEPRESENCE CONTROL CABLING. REFER TO FACEPLATE DETAIL AND TERMINATION DETAILS ON SHEET TC-302. REFER TO OUTLET ROUGH-IN REQUIREMENTS ON SHEET TC-401. REFER TO TC-501 AV ELEVATIONS FOR ADDITIONAL DETAIL.
6. PROVIDE A SINGLE GANG BACKBOX WITH A 1" CONDUIT TO ABOVE ACCESSIBLE CEILING THIS ROUGH-IN WILL BE FOR CABLING PROVIDED BY THE SECURITY VENDOR.
7. PROVIDE A 5" SQUARE BACKBOX WITH SINGLE GANG REDUCER FOR SECURITY MONITOR CABLING. PROVIDE 1-1/4" CONDUIT FROM BOX STUBBED OUT TO ABOVE ACCESSIBLE CEILING. PROVIDE PULLSTRING IN CONDUIT. PROVIDE SINGLE GANG BRUSHED PASSTHROUGH FACEPLATE (LEVITON #41075-DBW WITH DECORA STYLE WALLPLATE).
8. NOTE NOT USED.
9. DATA CONNECTION FOR ACCESS CONTROL PANEL. COORDINATE WITH SECURITY CONTRACTOR TO PROVIDE ONE CONNECTION FOR EACH PANEL WITHIN SINGLE GANG BACK BOX AND FACEPLATE. REFER TO SHEET TC-201 FOR ADDITIONAL INFORMATION.
10. PROVIDE 2-PORT SURFACE MOUNTED DATA OUTLET FOR EXTENSION OF COPPER CARRIER CABLING TO RACK. TERMINATE CABLING ON PATCH PANEL LOCATIONS SHOWN. PROVIDE PURPLE COLORED CAT6 JACKS IN FACEPLATE AND MODULAR PATCH PANEL. REFER TO THE CARRIER EXTENSION SURFACE MOUNTED OUTLET CONFIGURATION ON SHEET TC-302 FOR ADDITIONAL INFORMATION.
11. DATA OUTLET MOUNTED IN CASEWORK. COORDINATE MOUNTING LOCATIONS WITH ARCHITECT/JPMC PROJECT MANAGER.
12. DECORATIVE CEILING AREA. EXTEND CONDUIT TO NEAREST ACCESSIBLE CEILING. REFER TO THE OUTLET ROUGH-IN REQUIREMENTS ON SHEET TC-401.
13. MULLION MOUNTED MINI CAMERA. PROVIDE CONDUIT IN DOOR FRAME EXTENDING TO NEAREST ACCESSIBLE CEILING. COORDINATE FINAL MOUNTING WITH PROJECT MANAGER.
14. AV SOLUTION #3. REFER TO SHEET TC-501 FOR ADDITIONAL INFORMATION.
15. AV SOLUTION #7. REFER TO SHEET TC-502 FOR ADDITIONAL INFORMATION.
16. PROVIDE 1" CONDUIT WITH PULLSTRING TO DUAL SERVICE FLOOR BOX FOR FUTURE TELECOMMUNICATION CABLING. ROUTE CONDUIT UNDERSLAB TO NEAREST WALL AND STUB UP WALL TO ACCESSIBLE CEILING SPACE.
17. PLENUM-RATED ABOVE CEILING CONNECTOR ASSEMBLY MOUNTED ABOVE ACCESSIBLE CEILING FOR EXTERIOR SECURITY CAMERA. REFER TO DETAIL ON SHEET TC-401 FOR ADDITIONAL INFORMATION. PROVIDE A DOUBLE GANG BOX WITH 1" FLEX CONDUIT CONNECTION TO ABOVE ACCESSIBLE CEILING. THE CABLING VENDOR SHALL ROUTE THE RJ-45 PIGTAIL FROM ABOVE THE INTERIOR ACCESSIBLE CEILING TO THE EXTERIOR BACK BOX FOR THE SECURITY INTEGRATOR.
18. RECOMMENDED LOCATION OF THE CELLULAR ANTENNA ROOF PENETRATION. COORDINATE LOCATION WITHIN 36" OF THE ACCESS LADDER. CONDUIT PATHWAY SHALL EXTEND FROM THE ROOF PENETRATION TO THE RMRER DATA CLOSET. SEE DETAILS ON TC-201 AND TC-402 FOR ADDITIONAL INFORMATION.
19. OUTLET MOUNTED IN PRE-MANUFACTURED FURNITURE WALL (AKA VIA WALL OR PRIVACY WALL). EC TO PROVIDE A 3/4" FLEXIBLE CONDUIT WITH PULL STRING ROUTED FROM THE COMMUNICATIONS OUTLET OPENING TO ABOVE FINISHED CEILING. TC TO PROVIDE CABLING TO COMMUNICATION OPENING AND PROVIDE OUTLET FACEPLATE AS SHOWN ON TC-302.
20. PROVIDE SINGLE PORT CAT6A DATA OUTLET AND FACEPLATE BENEATH COUNTER FOR CAMERA MODULE. PROVIDE 3'-0" CAT6A PATCH CORD FOR SECURITY USE. DATA JACK SHALL BE GREEN. REFER TO TC-300 SERIES FOR FURTHER INFORMATION.
21. PROVIDE CABLING FOR ATM AND CORRESPONDING ATM TRANSACTION CAMERA FOR FUTURE USE. PROVIDE SERVICE LOOP CONSISTING OF 20' SPARE CABLING ABOVE CEILING NEAR TOP OF THE WALL FOR EXTENDING DOWN WALL FOR FUTURE TERMINATION AND TESTING. PERMANENTLY LABEL CABLING "FOR FUTURE ATM INSTALL".



**1 TELECOM FIRST FLOOR PLAN**  
 SCALE: 1/4" = 1'-0"

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site location **JP MORGAN CHASE & CO  
 908 NW PRYOR RD  
 LEE'S SUMMIT, MO 64081**

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**TELECOM  
 FIRST FLOOR  
 PLAN**

job no. **C60025810702**

sheet

**TC-101**

**NEW RETAIL  
 BRANCH  
 PRYOR RD. AND  
 LOWENSTEIN DR.**

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title **TELECOM  
 SITE PLAN**

job no. C60025810702

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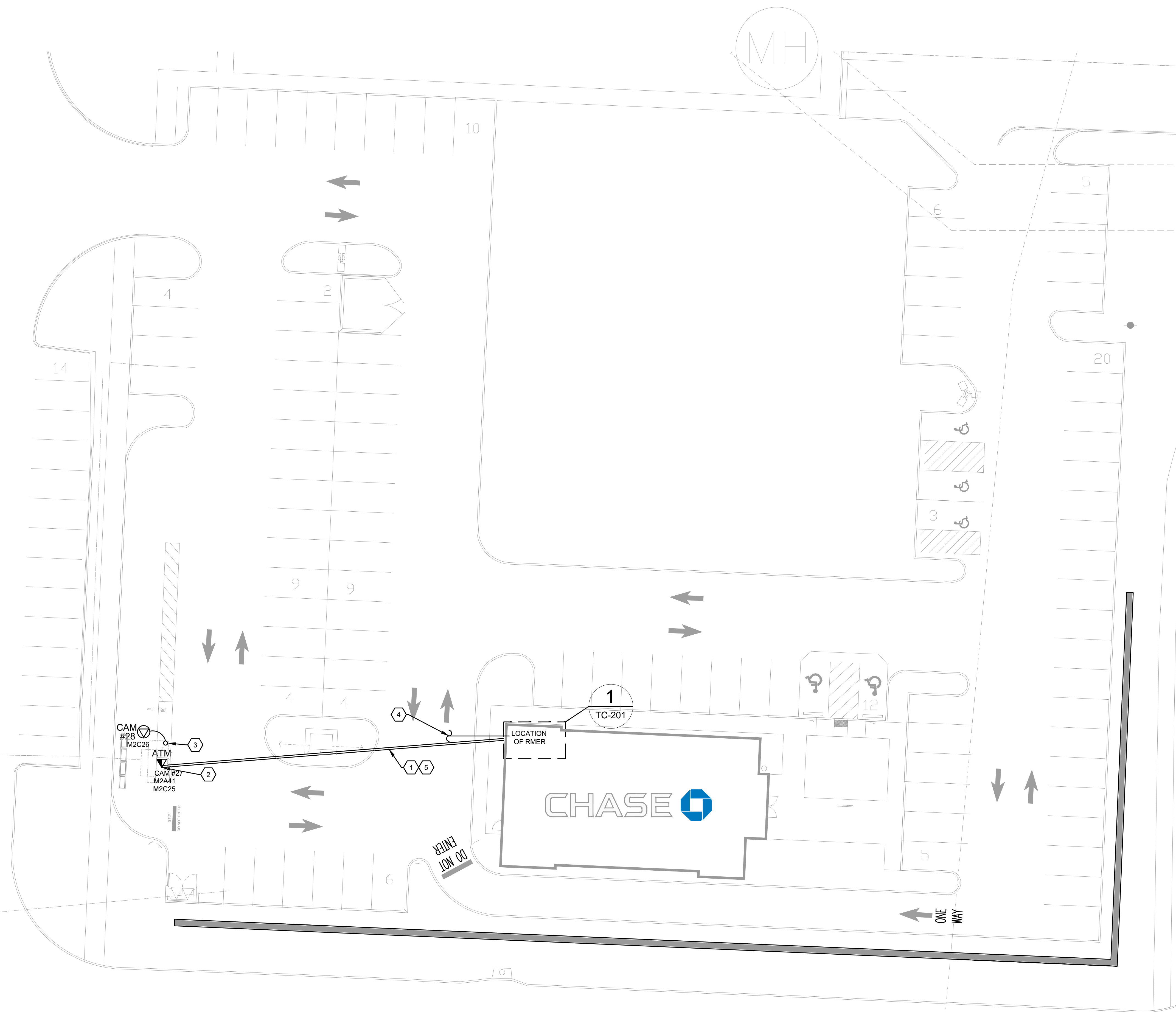
**TC-102**

**TELECOMMUNICATIONS PLAN NOTES**

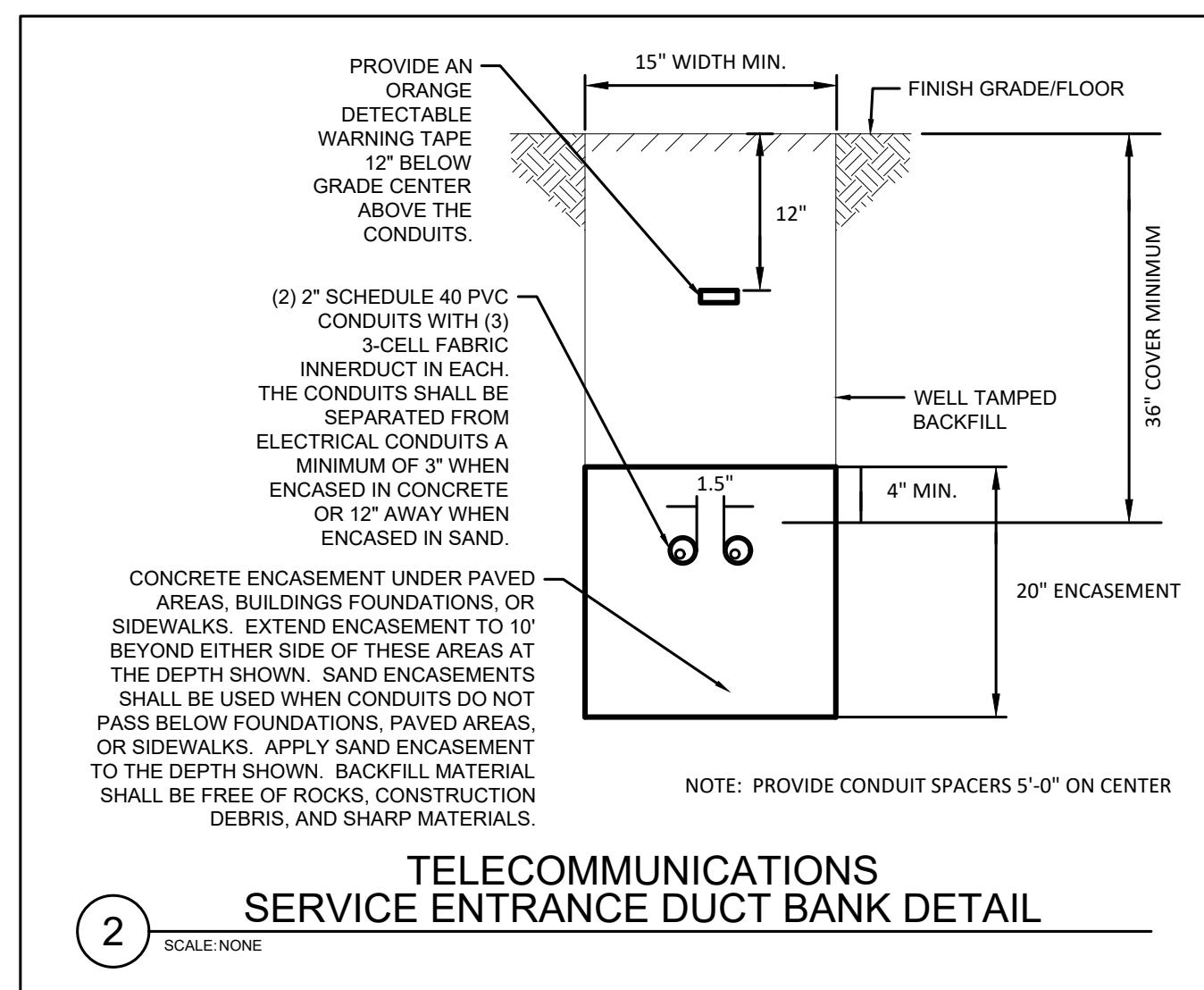
1. PROVIDE ONE (1) 2" CONDUIT TO EXTERIOR ATM LOCATION FROM RMER. PROVIDE 2' 3-CELL MAXCELL INNERDUCT AND SWEEPING 90-DEGREE BENDS.
2. PROVIDE ATM OUTLET AT THIS LOCATION UTILIZING WET LISTED CABLING. REFER TO DETAIL ON SHEET TC-302 FOR ADDITIONAL FACEPLATE CONFIGURATION INFORMATION.
3. PROVIDE 1" VERTICAL CONDUIT FROM ATM OUTLET LOCATION TO CEILING SOFFIT FOR TELECOM CABLING. PROVIDE CAT6A CEILING CONNECTOR ASSEMBLY WITH 18" LONG PIGTAIL WITHIN CANOPY JUNCTION BOX. REFER TO ATM CANOPY MOUNTED IP-CCTV CAMERA INSTALLATION DETAIL ON SHEET TC-401.
4. PROVIDE TWO (2) 2" CONDUIT TO EXTERIOR SERVICE PROVIDER POLE/HANDHOLE LOCATION FROM RMER. PROVIDE 2' 3-CELL MAXCELL INNERDUCT AND SWEEPING 90-DEGREE BENDS. COORDINATE FINAL PLACEMENT WITH SERVICE PROVIDER AND JPMC PROJECT MANAGER. PROVIDE IN-GRADE FLUSH MOUNTED HANDHOLE SIZED PER BICSI TDMM STANDARDS FOR ALL RUNS THAT EXCEED TWO (2) 90-DEGREE BENDS.
5. PROVIDE ONE (1) 2" CONDUIT AND PULLSTRING WITH SWEEPING 90-DEGREE BENDS TO EXTERIOR ATM LOCATION FROM SECURITY WALLBOARD LOCATION IN RMER.

**UNDERGROUND CONDUIT GENERAL NOTE**

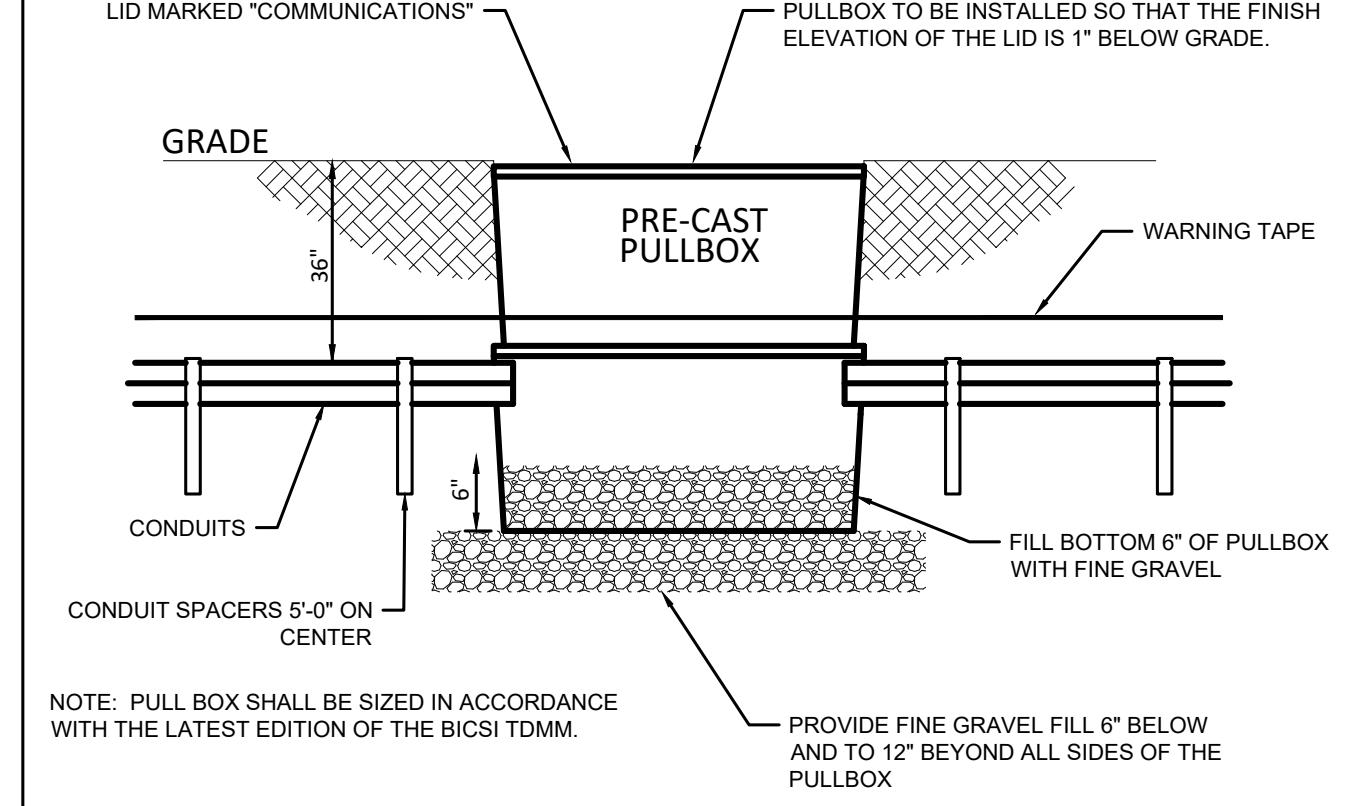
- A. PROVIDE HANDHOLES SIZED PER THE BICSI TDMM FOR ALL CONDUIT RUNS THAT EXCEED TWO 90 DEGREE BENDS. PROVIDE HANDHOLE IN THE STRAIGHT RUN SECTION OF CONDUIT. REFER TO DETAILS ON TC-402 FOR FURTHER INFORMATION.



**1 TELECOM SITE PLAN**  
 SCALE: 1/16" = 1'-0"



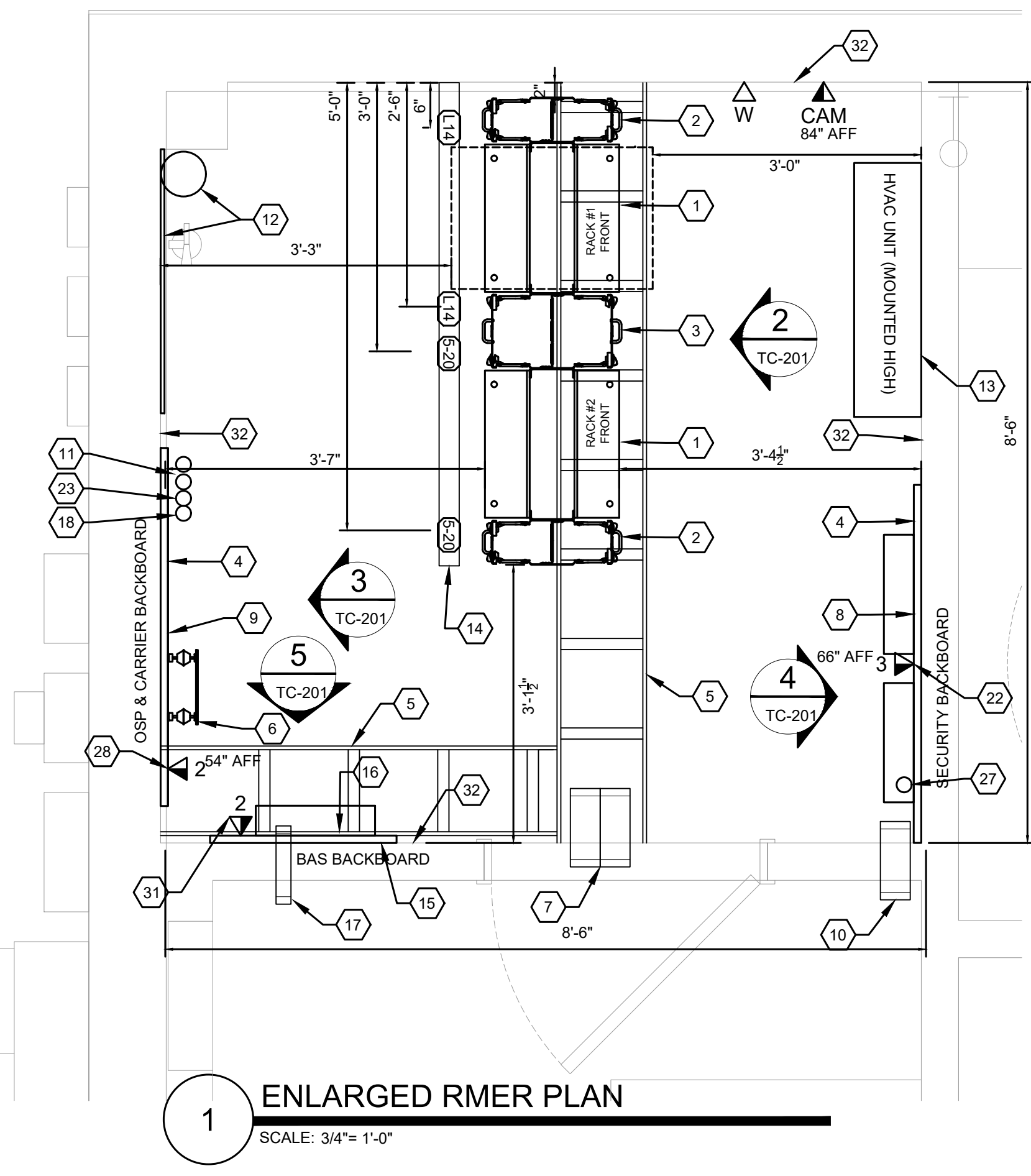
**2 TELECOMMUNICATIONS SERVICE ENTRANCE DUCT BANK DETAIL**  
 SCALE: NONE



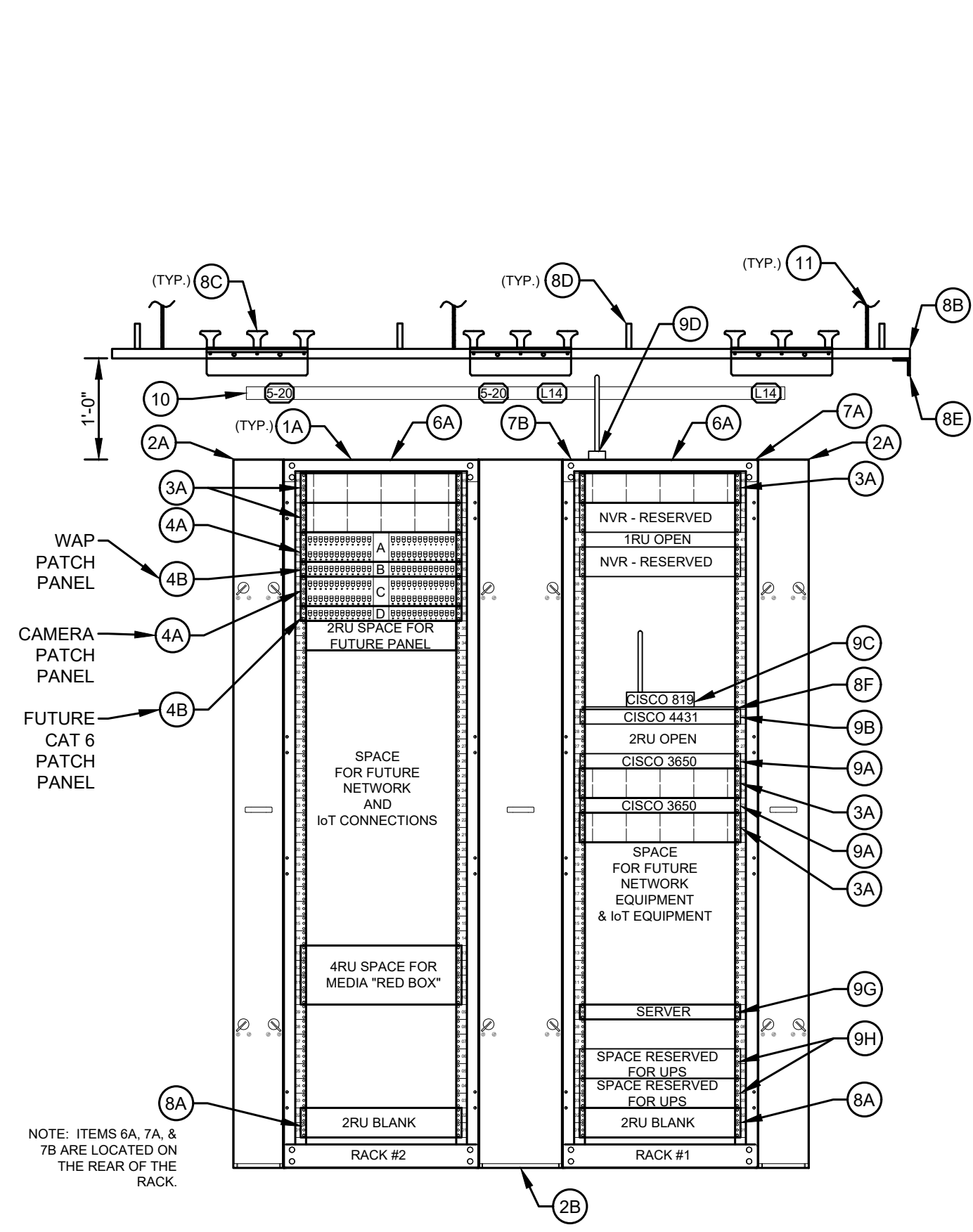
**3 TELECOMMUNICATIONS SERVICE IN-GRADE PULL BOX DETAIL**  
 SCALE: NONE

**NEW RETAIL  
 BRANCH  
 PRYOR RD. AND  
 LOWENSTEIN DR.**

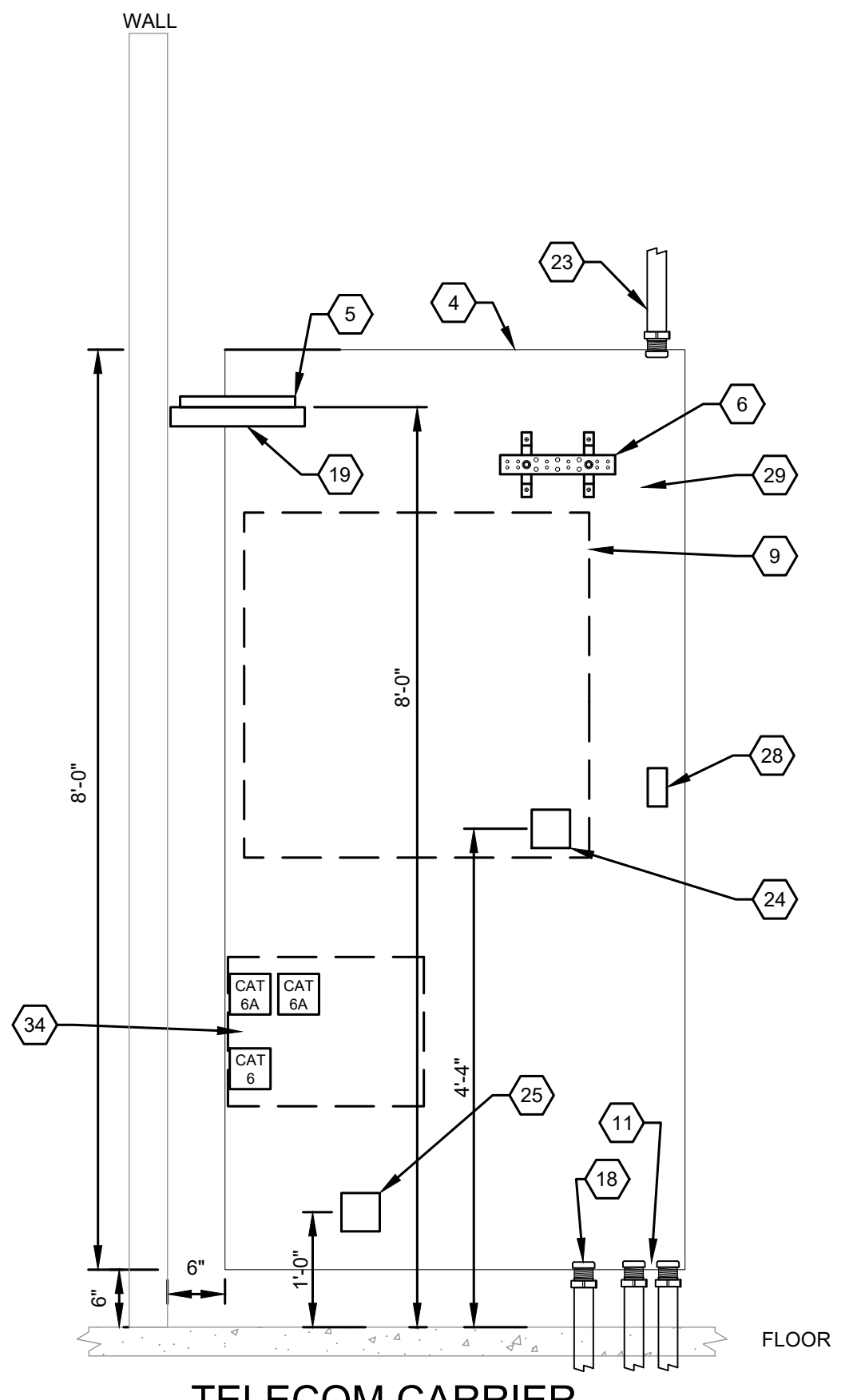
| RACK EQUIPMENT SCHEDULE |  |                     |  |      |   |                   |                   |
|-------------------------|--|---------------------|--|------|---|-------------------|-------------------|
| ITEM                    | DESCRIPTION  | MANUFACT.           | MODEL NUMBER   | ITEM | DESCRIPTION   | MANUFACT.         | MODEL NUMBER      |
| 1A                      | 2-POST RACK, 45RU, BLACK FINISH  | CPI                 | 66353-703  | 8B   | 12" WIDE LADDER RACK - BLACK FINISH   | CPI               | 10250-712         |
| 2A                      | 6" WIDE, DOUBLE-SIDED VERTICAL CABLE MANAGER, BLACK FINISH                         | CPI                 | 30095-703  | 8C   | LADDER RACK STRINGER RADIUS DROP 10.3" W - BLACK FINISH   | CPI               | 12101-701         |
| 2B                      | 10" WIDE, DOUBLE-SIDED VERTICAL CABLE MANAGER, BLACK FINISH                        | CPI                 | 30096-703  | 8D   | LADDER RACK CABLE RETAINING POSTS   | CPI               | 10596-706         |
| 3A                      | 2RU HORIZONTAL CABLE MANAGER, BLACK FINISH   | CPI                 | 30130-719  | 8E   | LADDER RACK WALL ANGLE SUPPORT KIT  | CPI               | 11421-712         |
| 3B                      | 1RU HORIZONTAL CABLE MANAGER, BLACK FINISH   | CPI                 | 30139-719  | 8F   | EQUIPMENT SHELF   | CPI               | 11359-719         |
| 4A                      | MODULAR, ANGLED, 48-PORT PATCH PANEL   | COMMSCOPE / SYSTMIX | 760187211  | 9A   | NETWORK SWITCH  | CISCO             | PROVIDED BY OWNER |
| 4B                      | MODULAR, ANGLED, 24-PORT PATCH PANEL   | COMMSCOPE / SYSTMIX | 760187203  | 9B   | NETWORK ROUTER  | CISCO             | PROVIDED BY OWNER |
| 6A                      | RACK MOUNTED HORIZONTAL GROUNDING BUSBAR KIT (SEE GROUNDING SCHEMATIC)             | PANDUIT             | RGRB19U  | 9C   | CELLULAR NETWORK ROUTER WITH ANTENNA  | CISCO             | PROVIDED BY OWNER |
| 7A                      | BLACK VERTICAL POWER DISTRIBUTION UNIT WITH MOUNTING BRACKET FOR IT EQUIPMENT ONLY | CPI                 | EA-3087-CE (2 PACK 1-WHITE 1-BLACK) WITH (2) TS1012713 | 9D   | REMOTE ANTENNA FOR CELLULAR NETWORK ROUTER  | CISCO             | PROVIDED BY OWNER |
| 7B                      | WHITE VERTICAL POWER DISTRIBUTION UNIT WITH MOUNTING BRACKET FOR IT EQUIPMENT ONLY | CPI                 |  | 9E   | SERVER AND MOUNTING BRACKET (CPI 12751-719)   | PROVIDED BY OWNER | PROVIDED BY OWNER |
| 8A                      | 2RU BLANK PANEL - BLACK FINISH   | CPI                 | 30024-702  | 9H   | UPS AND MOUNTING BRACKET  | PROVIDED BY OWNER | PROVIDED BY OWNER |
|                         |  |                     |  | 10   | RECEPTACLES MOUNTED ON A SEPARATE C-CHANNEL (UNISTRUT) BELOW THE LADDER RACK & ABOVE THE RACKS. | PROVIDED BY EC    |                   |
|                         |  |                     |  | 11   | ALL-THREAD TO STRUCTURE   | PROVIDED BY TC    |                   |



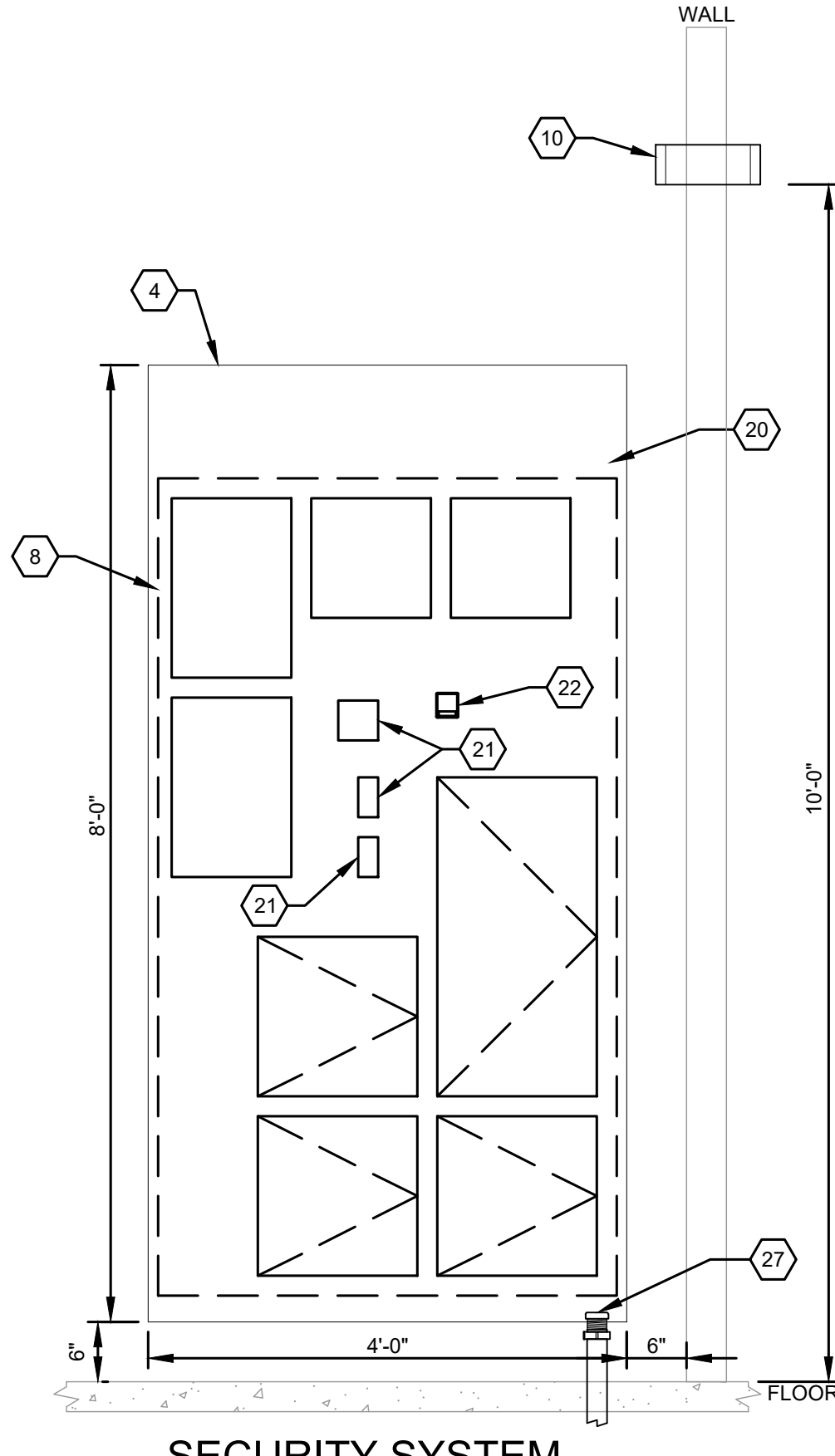
**1 ENLARGED RMER PLAN**  
 SCALE: 3/4" = 1'-0"



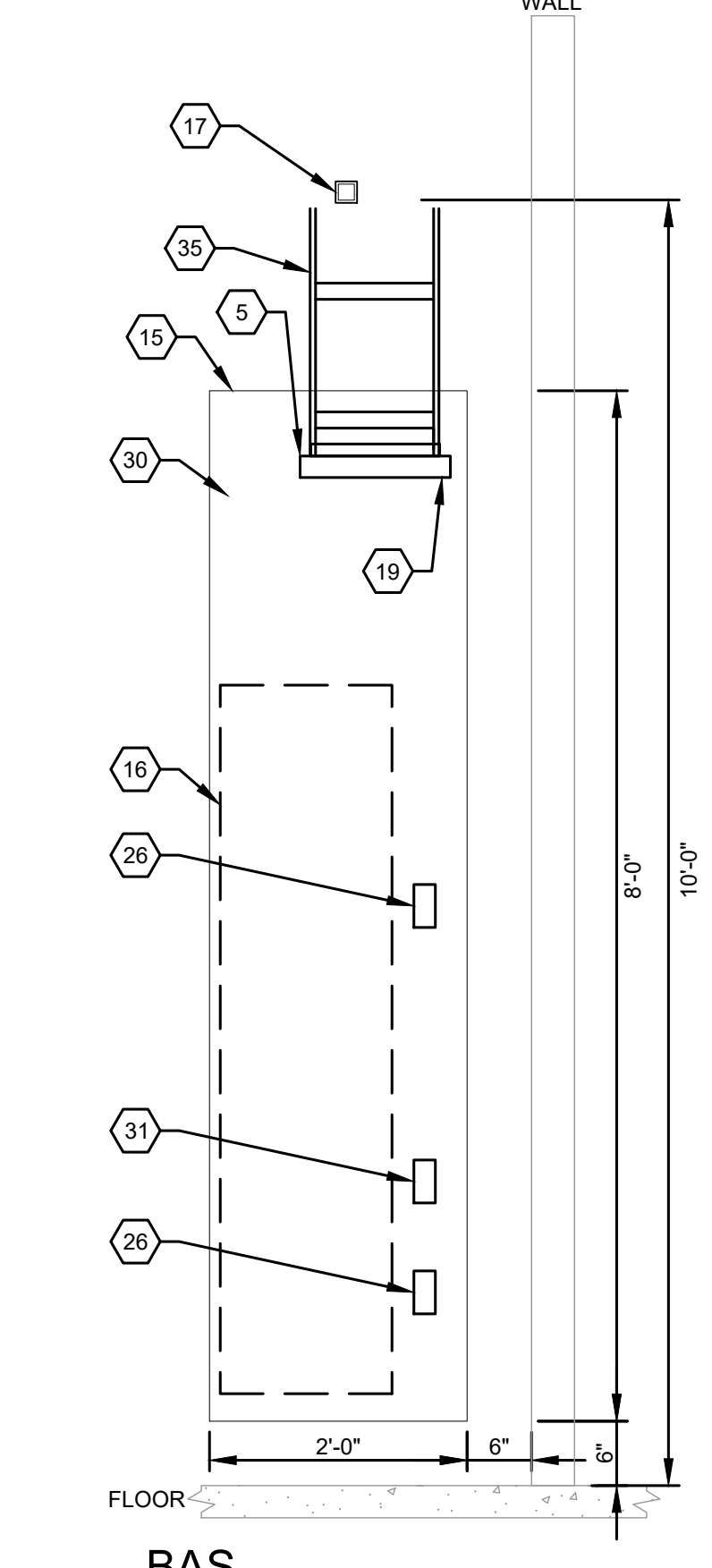
**2 RMER EQUIPMENT RACK ELEVATION**  
 SCALE: 3/4" = 1'-0"



**3 TELECOM CARRIER BACKBOARD ELEVATION**  
 SCALE: 3/4" = 1'-0"



**4 SECURITY SYSTEM BACKBOARD ELEVATION**  
 SCALE: 3/4" = 1'-0"



**5 BAS BACKBOARD ELEVATION**  
 SCALE: 3/4" = 1'-0"

- ENLARGED MAIN EQUIPMENT ROOM NOTES**
- NEW 2-POST RACK WITH BLACK FINISH.
  - NEW 6" WIDE VERTICAL WIRE MANAGER WITH BLACK FINISH.
  - NEW 10" WIDE VERTICAL WIRE MANAGER WITH BLACK FINISH.
  - NEW WALL MOUNTED, FIRE-RATED PLYWOOD BACKBOARD, 4" WIDE BY 8" TALL BY 3/4" THICK, BOTTOM MOUNTED 6" ABOVE FINISHED FLOOR. PAINT WITH FIRE-RETARDANT PAINT TO MATCH ROOM COLOR AND LEAVE ONE FIRE-RATED STAMP VISIBLE.
  - NEW 12" WIDE LADDER RACK OVERHEAD WITH BLACK FINISH.
  - LOCATION OF THE TELECOMMUNICATIONS GROUND BUSBAR. MOUNT 6" BELOW THE BOTTOM OF THE LADDER RACK. REFER TO GROUNDING DETAIL ON TC-403 FOR ADDITIONAL INFORMATION.
  - PROVIDE TWO 4" PRE-MANUFACTURED FIRE-RATED SLEEVES (STI EZ-PATH PART # EZZ44S2) WITH WATERFALL ADAPTER (STI PART #EZROM44S) FOR STRUCTURED CABLING USE ONLY. USE MULTI-GANG PLATE (STI PART #EZP544W). REFER TO CABLE PENETRATION DETAIL ON TC-402 FOR ADDITIONAL INFORMATION.
  - 4" WIDE BY 7'-0" TALL WALL FIELD AREA RESERVED FOR SECURITY EQUIPMENT.
  - 3" WIDE BY 3" TALL WALL FIELD AREA RESERVED ON BACKBOARD FOR CARRIER EQUIPMENT TO BE MOUNTED.
  - PROVIDE ONE 4" PRE-MANUFACTURED FIRE-RATED SLEEVE (STI EZ-PATH PART # EZZP44S2) FOR SECURITY ALARM AND CARD ACCESS CABLING USE ONLY. REFER TO CABLE PENETRATION DETAIL ON TC-402 FOR ADDITIONAL INFORMATION.
  - E.C. TO PROVIDE TWO 2" CONDUITS FROM THE RMER TO THE CARRIER POINT OF ENTRY. ONE CONDUIT FOR THE SERVICE PROVIDER TO EXTEND THEIR DEMARCATION INTO THE NEW RMER. ONE CONDUIT WILL BE OWNER SPARE. THE E.C. SHALL FIELD COORDINATE THIS ROUTE WITH THE BUILDING OWNER AND TELECOMMUNICATIONS CARRIER PRIOR TO INSTALLATION. PROVIDE 2" 3-CELL MAXCELL INNERDUCT AND SWEEPING 90-DEGREE BENDS. REFER TO CONDUIT AND SLEEVE LABELING ON TC-402 FOR LABELING INFORMATION.
  - PROVIDE A DRAWING OF THE FLOOR PLAN AS-BUILT WITH ALL HORIZONTAL CABLING LABELS FOR EACH OUTLET. MOUNT DRAWING TO WALL. PROVIDE ADDITIONAL FULL SIZE DRAWING TUBE ADJACENT TO CABLING DRAWING WITH A COMPLETE FULL SIZE SET OF ALL CONSTRUCTION AS-BUILT DRAWINGS FOR SITE.
  - SPACE FOR WALL MOUNTED HVAC UNIT. BOTTOM MOUNTED 8'-0" AFF WITH DRIP PAN AND DRIP PAN LEAK DETECTION. HVAC CONTRACTOR SHALL PROVIDE PROTECTION ON ALL SHARP CORNER EDGES.
  - EC TO PROVIDE A C-CHANNEL (UNI-STRUT) WITH TWO L14-30 OUTLET AT RACK #1 AND TWO NEMA 5-20 OUTLETS AT RACK #2 MOUNTED AT 7'-6" AFF. EACH OUTLET SHALL BE ON A DEDICATED CIRCUIT. EC TO MOUNT THIS INDEPENDENTLY FROM THE LADDER RACK AND THE EQUIPMENT RACKS. REFER TO TC-403 FOR REQUIRED EQUIPMENT POWER CONNECTIONS SCHEMATIC AND PDU MOUNTING DETAIL.
  - NEW WALL MOUNTED, FIRE-RATED PLYWOOD BACKBOARD, 2" WIDE BY 8" TALL BY 3/4" THICK, BOTTOM MOUNTED 6" ABOVE FINISHED FLOOR. PAINT WITH FIRE-RETARDANT PAINT TO MATCH ROOM COLOR AND LEAVE ONE FIRE-RATED STAMP VISIBLE.
  - 1'-4" WIDE BY 5'-6" TALL WALL FIELD AREA RESERVED BUILDING AUTOMATION SYSTEM (BAS) EQUIPMENT.
  - PROVIDE ONE 2" PRE-MANUFACTURED FIRE-RATED SLEEVE (STI EZ-PATH PART # EZZD22) FOR BUILDING AUTOMATION SYSTEM (BAS) CABLING USE ONLY. REFER TO CABLE PENETRATION DETAIL ON TC-402 FOR LABELING INFORMATION.
  - PROVIDE 2" CONDUIT TO EXTERIOR ATM LOCATION AS SHOWN ON SHEET TC-102. PROVIDE 2" 3-CELL MAXCELL INNERDUCT AND SWEEPING 90-DEGREE BENDS. REFER TO CONDUIT AND SLEEVE LABELING ON TC-402 FOR LABELING INFORMATION.
  - WALL MOUNTED SUPPORT BRACKET FOR LADDER RACK.
  - ALL SECURITY SYSTEM CABLING MUST BE AFFIXED TO WALL AND/OR FIXED CONVEYANCE WITH HANGERS, VELCRO AND TIES. NO HANGING CABLES. (TYPICAL)
  - POWER CONNECTIONS ON DEDICATED CIRCUITS AND CONDUIT HOMERUN FOR SECURITY EQUIPMENT. EC TO COORDINATE ADDITIONAL CONNECTIONS REQUIRED, OUTLET MOUNTING HEIGHT, AND OUTLET CONFIGURATIONS & LOCATIONS ON THE BACKBOARD WITH THE SECURITY VENDOR.
  - DATA OUTLETS FOR THE ACCESS CONTROL PANEL FOR EQUIPMENT NETWORK CONNECTION. COORDINATE WITH SECURITY CONTRACTOR TO PROVIDE ONE CONNECTION FOR EACH PANEL WITHIN SINGLE GANG BACK BOX AND FACEPLATE.
  - PROVIDE 1" CONDUIT TO ROOF LOCATION FOR FUTURE ANTENNA CABLING. REFER TO CONDUIT AND SLEEVE LABELING ON TC-402 FOR LABELING INFORMATION.
  - QUAD POWER OUTLET ON A DEDICATED CIRCUIT AND CONDUIT HOMERUN FOR CARRIER EQUIPMENT.
  - QUAD POWER OUTLET ON A DEDICATED CIRCUIT AND CONDUIT HOMERUN FOR FUTURE EQUIPMENT.
  - DEDICATED DUPLEX OUTLET FOR BUILDING AUTOMATION SYSTEM (BAS) EQUIPMENT.
  - APPROXIMATE LOCATION OF THE 2" CONDUIT FOR ALARM CABLING TO DRIVE UP ATM. FIELD COORDINATE FINAL LOCATION.
  - 2-PORT SURFACE MOUNTED CAT6 DATA OUTLET WITH PURPLE COLORED CAT6 JACKS FOR COPPER EXTENSION OF CARRIER CONNECTIONS TO RACK.
  - ALL CARRIER CABLING MUST BE AFFIXED TO WALL AND/OR FIXED CONVEYANCE WITH HANGERS, VELCRO AND TIES. NO HANGING CABLES. (TYPICAL)
  - ALL BAS CABLING MUST BE AFFIXED TO WALL AND/OR FIXED CONVEYANCE WITH HANGERS, VELCRO AND TIES. NO HANGING CABLES. (TYPICAL).
  - DATA OUTLET FOR THE BUILDING AUTOMATION SYSTEM (BAS) PANEL FOR EQUIPMENT NETWORK CONNECTION. REFER TO CONDUIT AND SLEEVE LABELING ON TC-402 FOR LABELING INFORMATION.
  - LOCATION FOR CONVENIENCE ELECTRICAL RECEPTACLE (BY DIV 26).
  - NOTE NOT USED.
  - PROVIDE SURGE PROTECTION FOR EACH CAT6 AND CAT6A CABLE LEAVING THE ROOM TO SERVE POLE MOUNTED CAMERAS AND ANY FREESTANDING ATM ISLAND/CANOPY DEVICES. PROVIDE ITW #CAT6-75 PROTECTION FOR EACH CAT6 CABLE AND ITW #CAT6A-75 FOR EACH CAT6A CABLE. BOND TO THE GROUNDING BAR PER MANUFACTURER REQUIREMENTS.
  - WHERE THE SLEEVE PENETRATION IS ELEVATED 24" OR MORE ABOVE THE LADDER RACK, PROVIDE A WALL MOUNTED VERTICAL SECTION OF LADDER RACK FOR CABLE VERTICAL TRANSITION.

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site location  
**JP MORGAN CHASE & CO**  
**908 NW PRYOR RD**  
**LEE'S SUMMIT, MO 64081**

designed KB date 03.02.2022 drawn KB  
 checked CC scale AS NOTED

**FIRST FLOOR  
 ENLARGED RMER PLAN  
 AND ELEVATIONS**

job no.  
 C60025810702

sheet

**NEW RETAIL  
 BRANCH  
 PRYOR RD. AND  
 LOWENSTEIN DR.**

keyplan

seal



| issue no | date       | issue                 | by |
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site location **JP MORGAN CHASE & CO  
 908 NW PRYOR RD  
 LEE'S SUMMIT, MO 64081**

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**TELECOM  
 SINGLE LINE  
 DIAGRAM**

job no. C60025810702

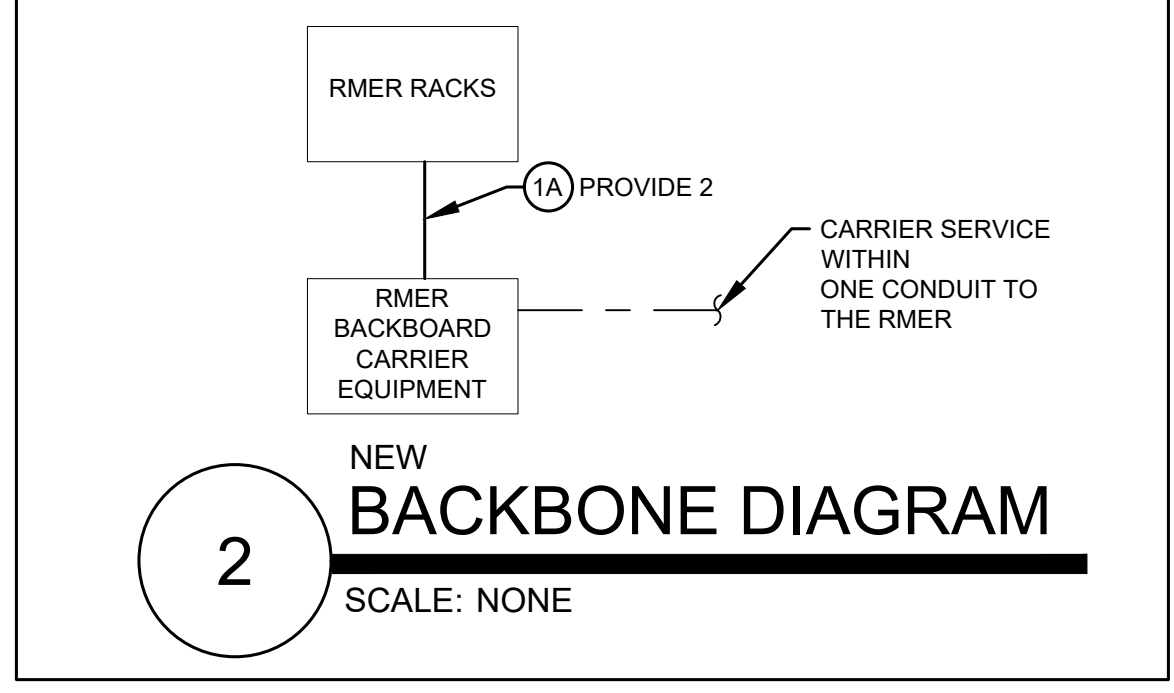
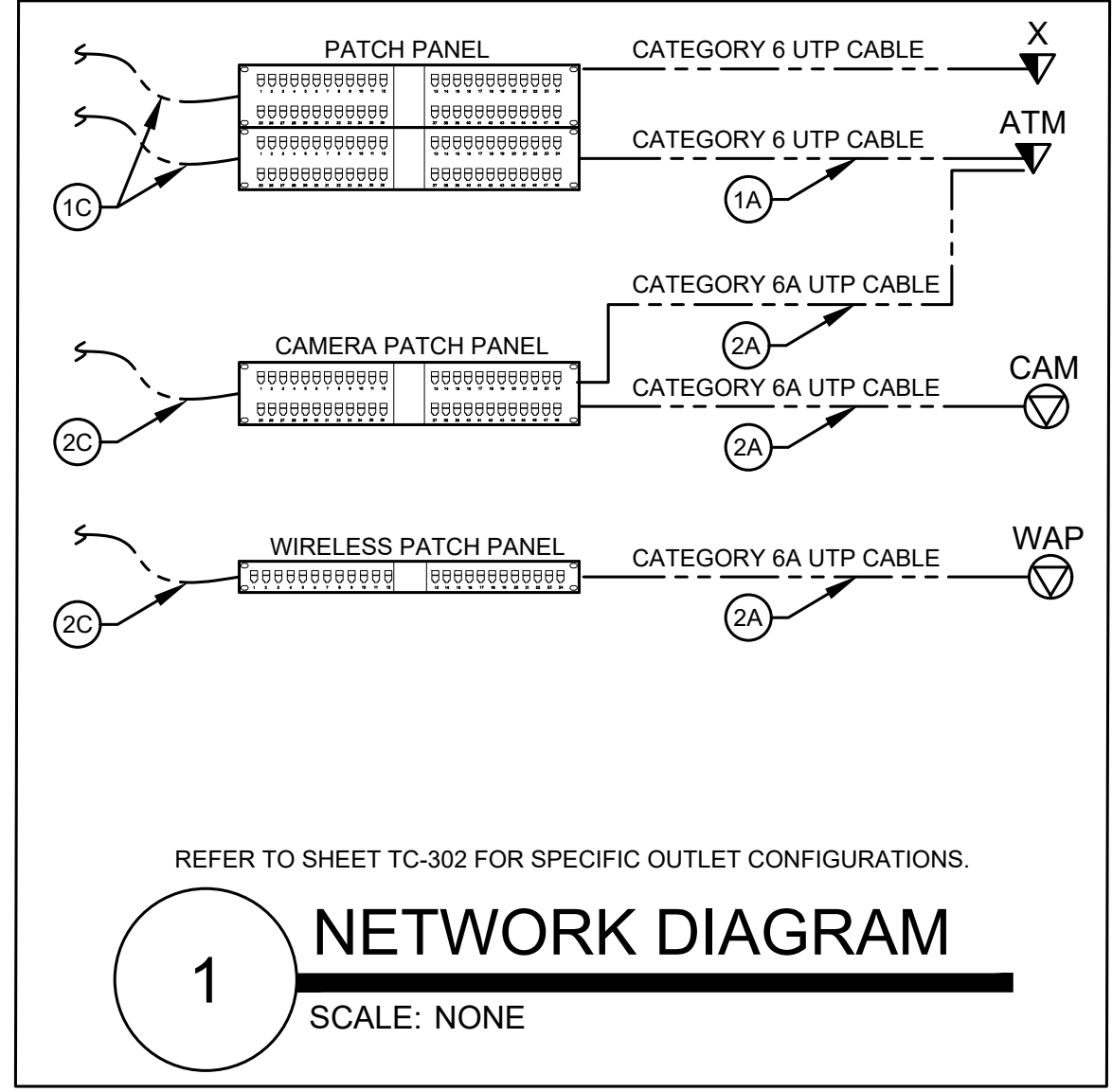
sheet **TC-301**

| OUTLET TYPE   | CABLE CATEGORY  | LENGTH  | QTY PER OUTLET |
|---|-----------------|---------|----------------|
| WORK AREA OUTLET / CUBICLE / OFFICE (OUTLET TO PHONE)   | CAT 6           | 7 FOOT  | 1              |
| WORK AREA OUTLET / CUBICLE / OFFICE (PHONE TO COMPUTER) | CAT 6           | 5 FOOT  | 1              |
| PRINTER   | CAT 6           | 7 FOOT  | 1              |
| ATM OUTLETS   | CAT 6           | 15 FOOT | 1              |
| WALL PHONE OUTLET                                       | CAT 6           | 6 INCH  | 1              |
| VIDEO MONITOR OUTLETS                                   | CAT 6A SHIELDED | 5 FOOT  | 1              |
| TELEPRESENCE CONTROL OUTLETS                            | CAT 6A SHIELDED | 5 FOOT  | 2              |
| IP-CCTV CAMERA INTEGRAL TO ATM                          | CAT 6A          | 15 FOOT | 1              |

| PATCH PANEL TYPE                   | CABLE TYPE | LENGTH  | QTY PER PORT |
|------------------------------------|------------|---------|--------------|
| CAT6 UTP PATCH PANEL SHORTER PULL  | CAT 6      | 7 FOOT  | 1            |
| CAT6 UTP PATCH PANEL LONGER PULL   | CAT 6      | 10 FOOT | 1            |
| CAT6A UTP PATCH PANEL SHORTER PULL | CAT 6A     | 7 FOOT  | 1            |
| CAT6A UTP PATCH PANEL LONGER PULL  | CAT 6A     | 10 FOOT | 1            |
| SERVER                             | CAT 6      | 10 FOOT | 1            |
| DVR                                | CAT 6      | 10 FOOT | 1            |
| UPS                                | CAT 6      | 10 FOOT | 1            |
| ROUTER                             | CAT 6      | 10 FOOT | 1            |
| CARRIER BACKBOARD                  | CAT 6      | 3 FOOT  | 2            |

CONFIRM LENGTHS AND QUANTITIES PRIOR TO ORDERING. PULL/PATCH SCHEDULE TEMPLATE SHALL BE PROVIDED BY THE JPMC GTI PM AND TC SHALL BE RESPONSIBLE FOR FILLING THE REQUIRED COLUMNS AS DIRECTED. LENGTHS NOTED ARE FOR CONTRACTOR PRICING PURPOSES. EXACT LENGTHS SHALL BE FIELD VERIFIED PRIOR TO PURCHASING.

FOR RMER/RTR END, THE CONTRACTOR SHALL ORDER PATCH CORD LENGTHS SO THAT NO MORE THAN 1' OF SLACK IS INCLUDED IN EACH PATCH CORD AFTER INSTALLATION. THEREFORE, THE TC SHALL FIELD MEASURE THE REQUIRED LENGTHS. THE LENGTHS SHOWN ABOVE ARE FOR PRICING PURPOSES ONLY.

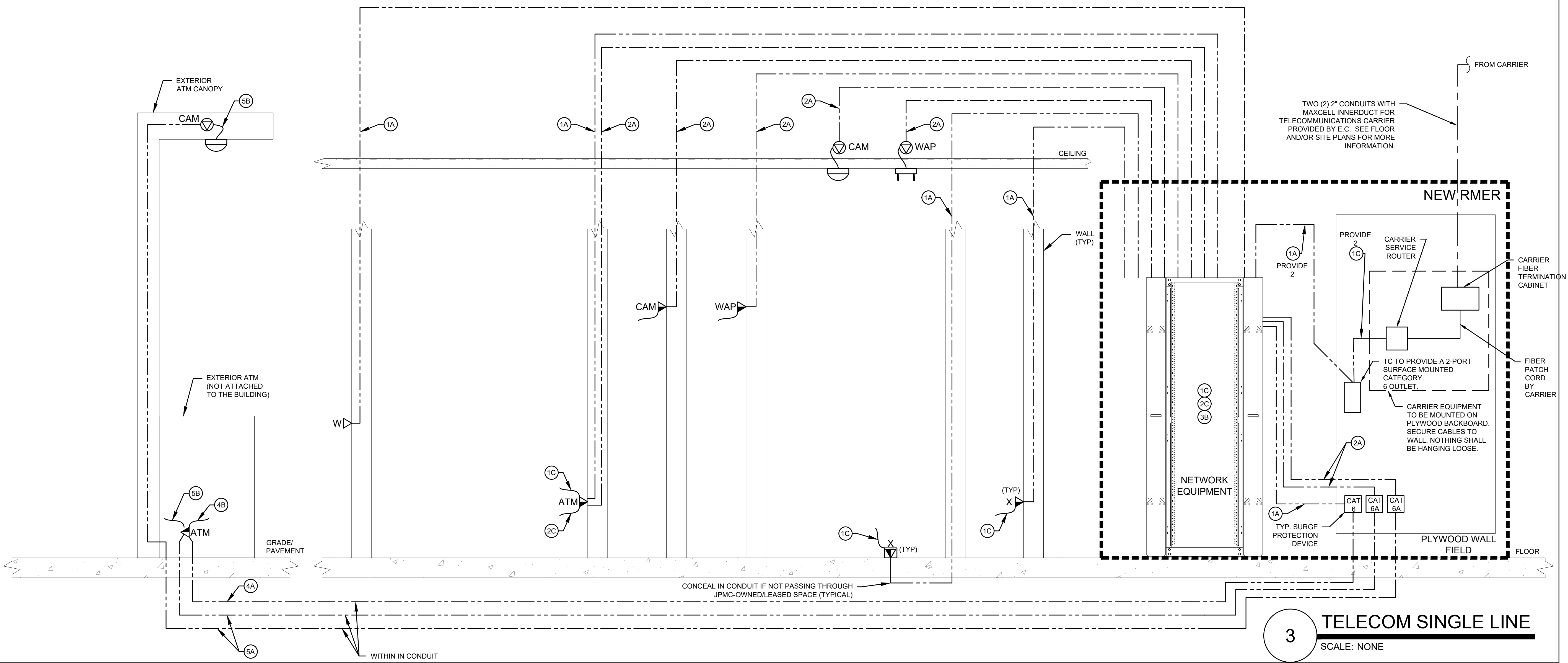


| TYPE                       | NUMBER | DESCRIPTION   | MANUFACTURER       | MODEL NUMBER                         |
|----------------------------|--------|---|--------------------|--------------------------------------|
| INTERIOR CATEGORY 6 UTP    | 1A     | CATEGORY 6, PLENUM RATED, HORIZONTAL UTP GRAY CABLE   | COMMSCOPE/SYSTEMAX | 700210198 (REEL)<br>700214372 (BOX)  |
|                            | 1B     | CATEGORY 6, NON-PLENUM RATED HORIZONTAL UTP GRAY CABLE                                      | COMMSCOPE/SYSTEMAX | 700211923 (REEL)<br>700211931 (BOX)  |
|                            | 1C     | CATEGORY 6 PATCH CORD   | COMMSCOPE/SYSTEMAX | CPC3312-03F0##,<br>WHERE ## = LENGTH |
| INTERIOR CATEGORY 6A UTP   | 2A     | CATEGORY 6A, PLENUM RATED, HORIZONTAL UTP WHITE CABLE                                       | COMMSCOPE/SYSTEMAX | 760105940 (REEL)<br>760107268 (BOX)  |
|                            | 2B     | CATEGORY 6A, NON-PLENUM RATED, HORIZONTAL UTP WHITE CABLE                                   | COMMSCOPE/SYSTEMAX | 760105817                            |
|                            | 2C     | CATEGORY 6A, PATCH CORD   | COMMSCOPE/SYSTEMAX | CPCSSX2-08F0##,<br>WHERE ## = LENGTH |
| INTERIOR CATEGORY 6A F/UTP | 3A     | CATEGORY 6A, PLENUM RATED, HORIZONTAL F/UTP BLUE CABLE                                      | COMMSCOPE/SYSTEMAX | UN874034704 (REEL)                   |
|                            | 3B     | CATEGORY 6A, F/UTP, BLUE PATCH CORD   | COMMSCOPE/SYSTEMAX | UC111G2-0MF00##<br>WHERE ## = LENGTH |
| EXTERIOR CATEGORY 6 UTP    | 4A     | CATEGORY 6, OSP RATED, HORIZONTAL UTP CABLE   | COMMSCOPE/SYSTEMAX | 760008888                            |
|                            | 4B     | CATEGORY 6, OSP RATED, PATCH CORD   | COMMSCOPE/SYSTEMAX | CO15542-01F0##,<br>WHERE ## = LENGTH |
| EXTERIOR CATEGORY 6A UTP   | 5A     | CATEGORY 6A, OSP RATED, HORIZONTAL UTP CABLE  | COMMSCOPE/SYSTEMAX | 760178129                            |
|                            | 5B     | CATEGORY 6A, OSP RATED, PATCH CORD  | COMMSCOPE/SYSTEMAX | CO15582-01F0##,<br>WHERE ## = LENGTH |
| FIBER                      | 6B     | HYBRID FIBER (2-STRAND SINGLE MODE) WITH COPPER (TWO 12AWG), OUTDOOR RATED HORIZONTAL CABLE | BERK-TEK           | ONE-REACH SERIES                     |

NOTES  
 A. FOR PATCH CORDS WITHOUT AN EXACT LENGTH SPECIFIED, THE CONTRACTOR SHALL DETERMINE THE LENGTH SO THERE IS NO MORE THAN 1' OF SLACK ON EACH END.  
 B. ALL CABLE TYPES LISTED ABOVE MAY NOT BE USED ON EVERY PROJECT.  
 C. NON-PLENUM CABLES CAN ONLY BE USED WHEN EITHER THE CABLING IS TOTALLY WITHIN CONDUIT OR THE HVAC SYSTEM HAS A DUCTED AIR RETURN.

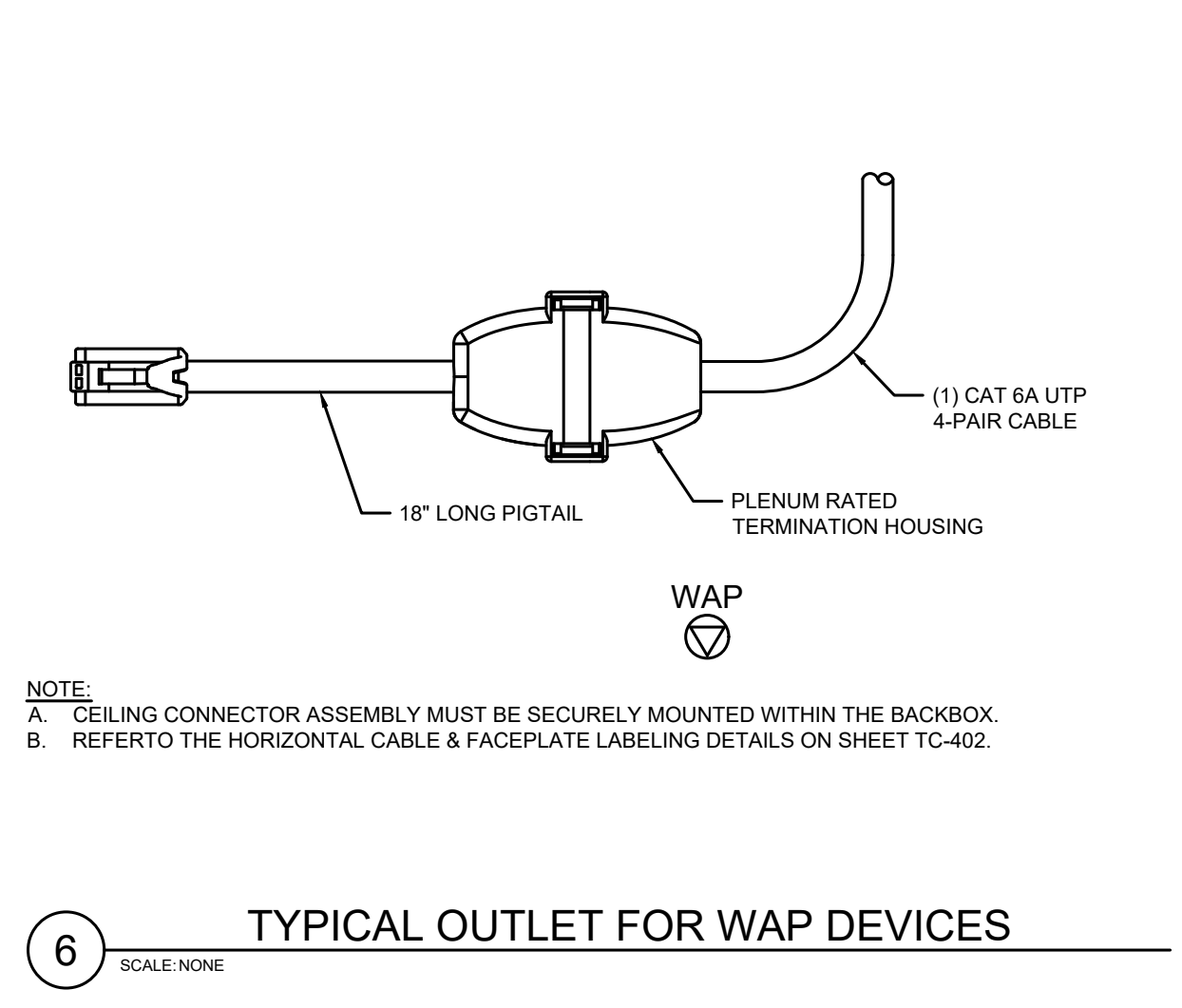
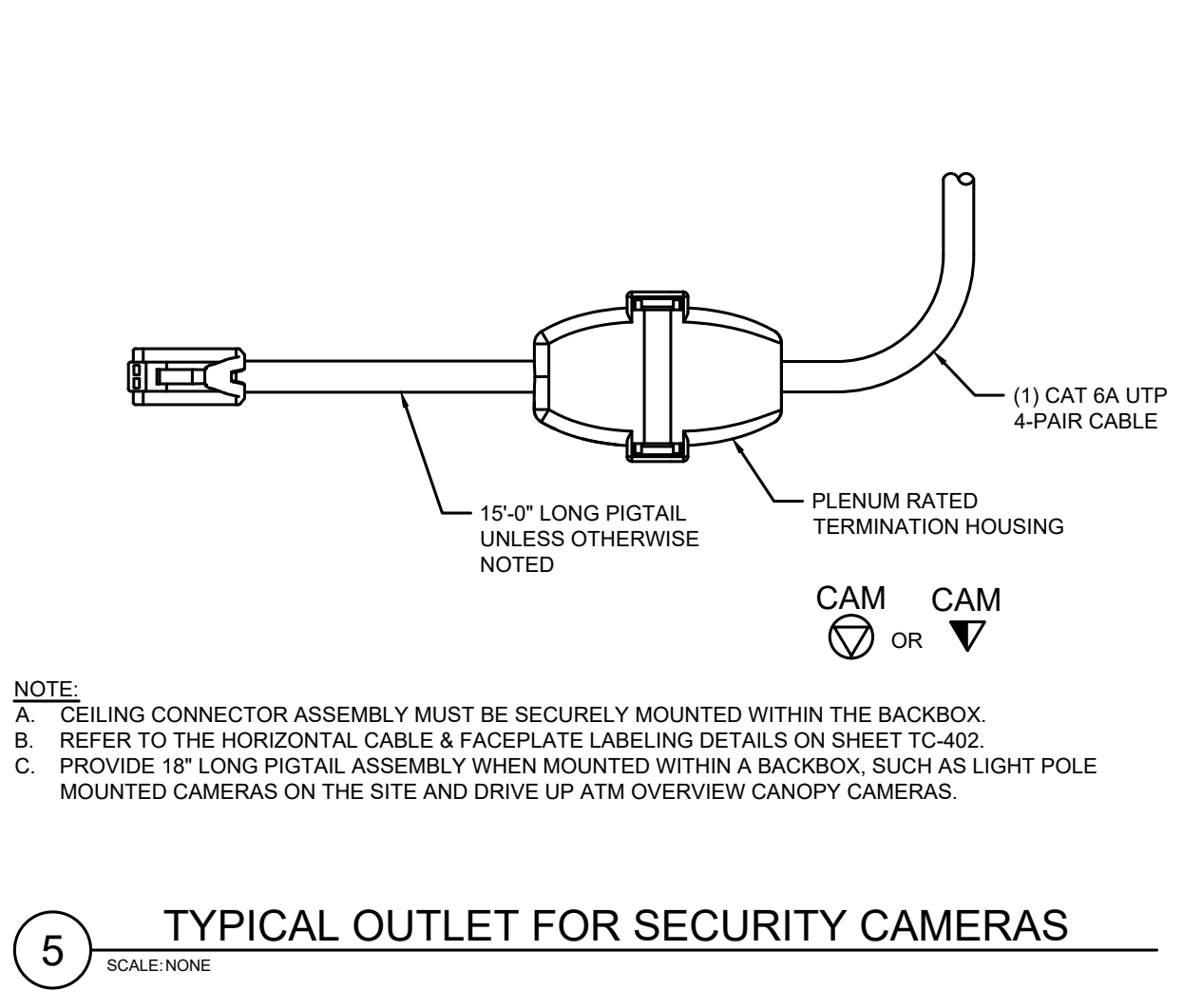
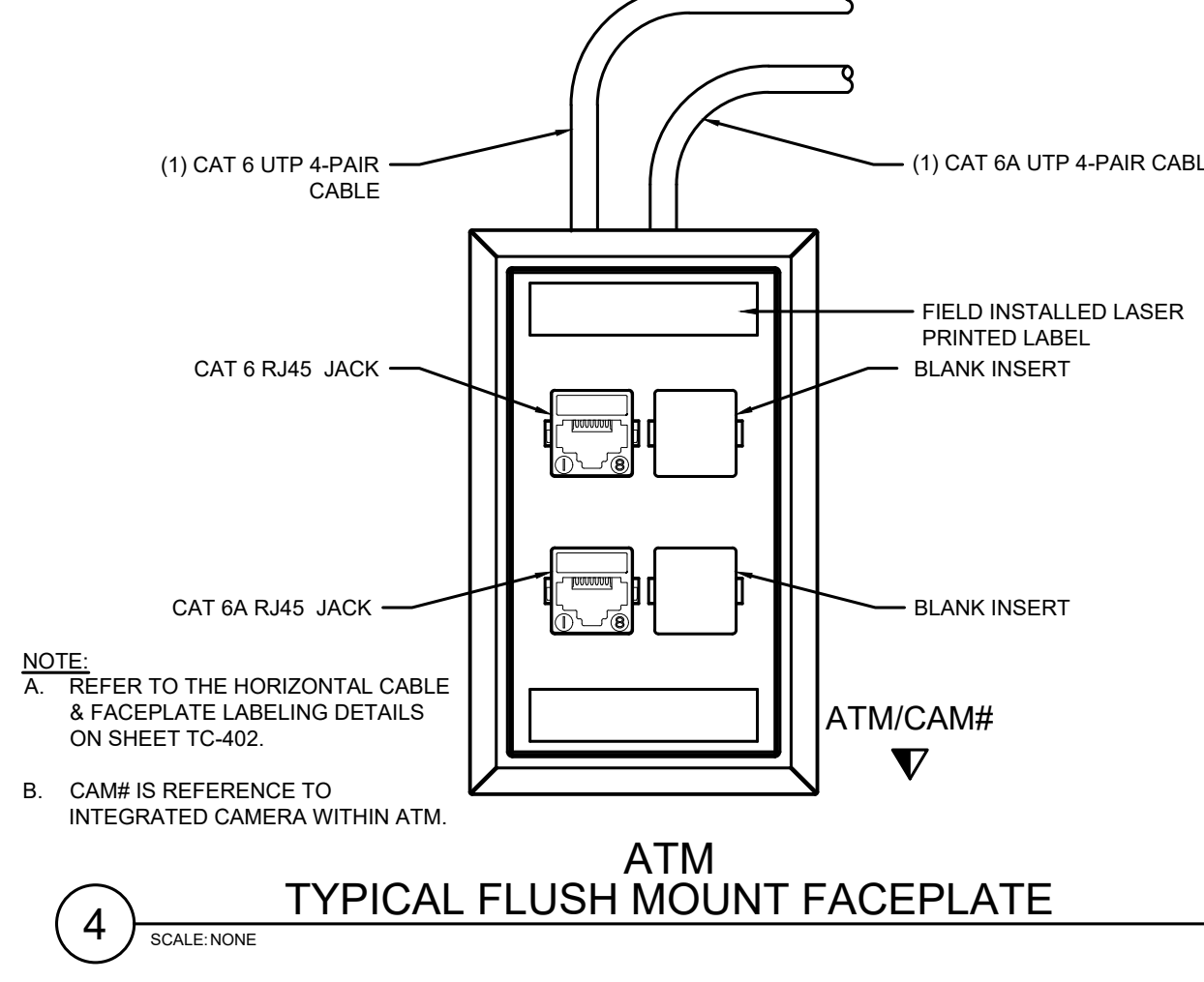
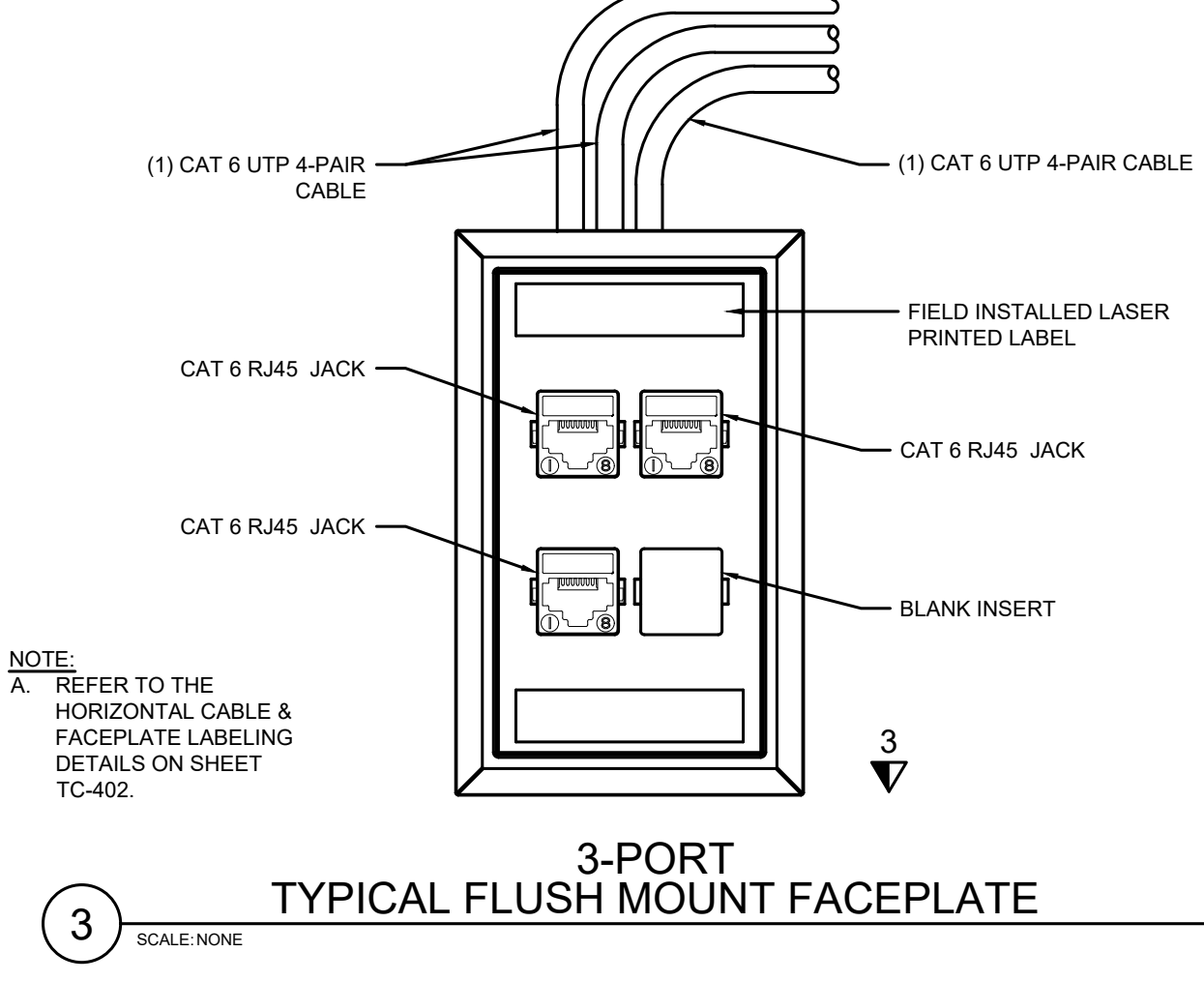
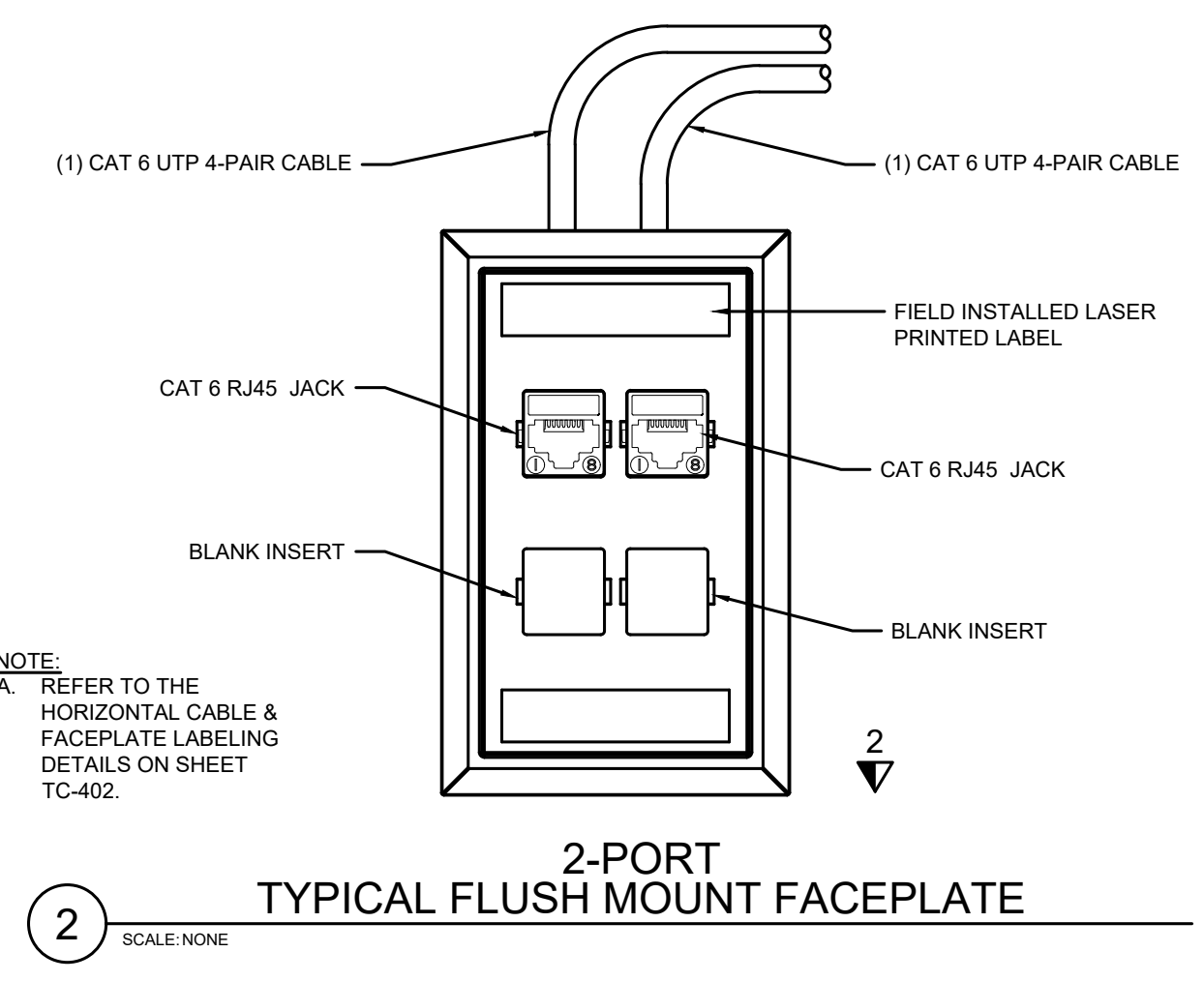
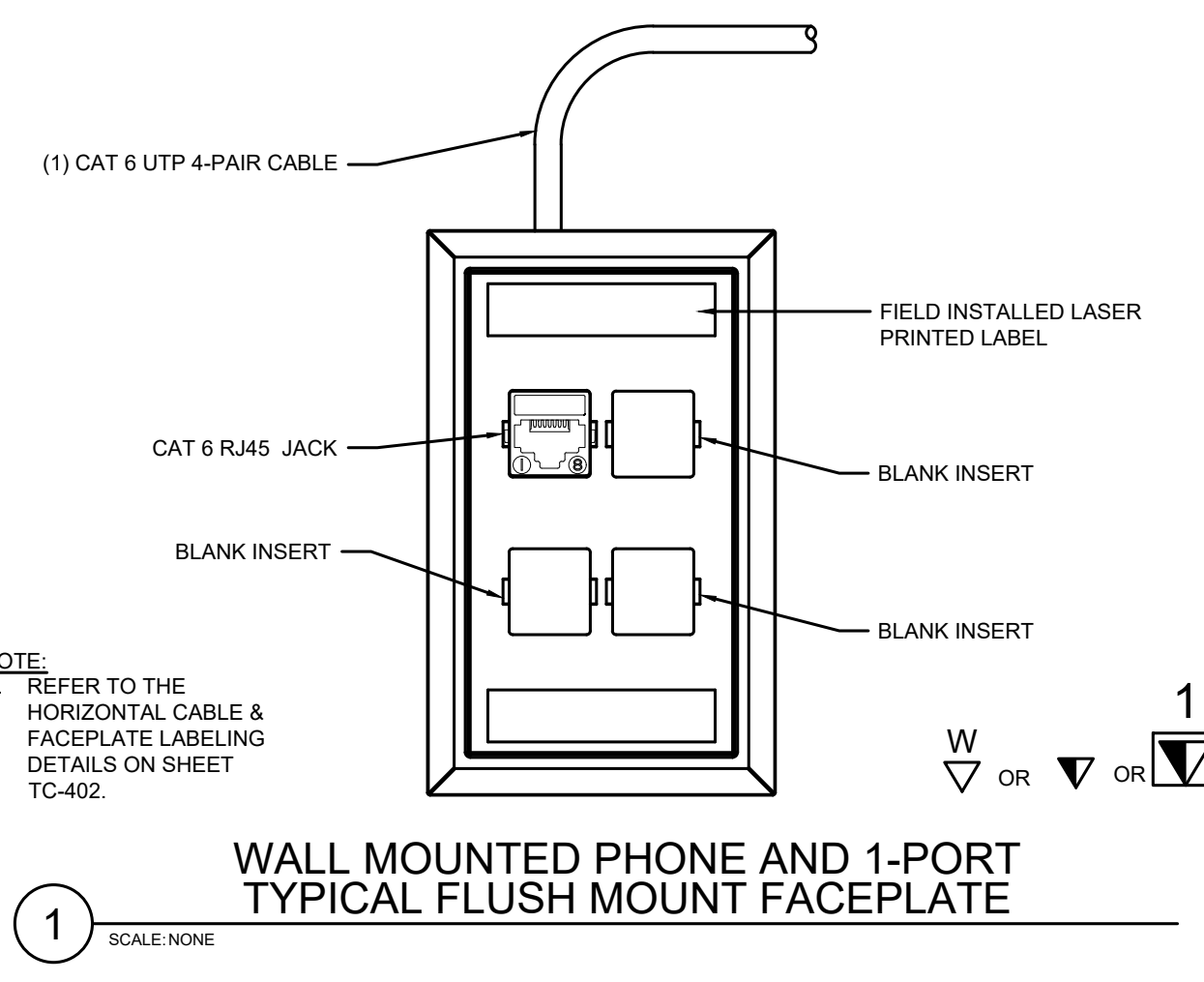
- CABLING INSTALLATION GENERAL NOTES:**
- CABLES ROUTED IN WALLS AND COLUMNS SHALL BE IN CONDUIT STUB-UPS. CABLES ROUTED IN FLOOR SLAB SHALL BE IN CONDUIT. ANY CABLE ROUTES THAT ARE NOT IN JPMC OWNED SPACE SHALL BE IN CONDUIT. (TC TO COORDINATE WITH EC FOR CONDUIT QUANTITIES, PLACEMENT AND SIZING).
  - CABLE PATHWAYS ARE SHOWN FOR DIAGRAMMATICAL PURPOSES ONLY. ACTUAL PATHWAYS MAY BE DIFFERENT. TC SHALL VERIFY CABLE PATHWAYS AND RACK TERMINATION LOCATION OF THE CABLES IN THE FIELD PRIOR TO PULLING ANY CABLES.
  - THE SINGLE LINE DIAGRAM IS DIAGRAMMATIC FOR REFERENCE ONLY AND SHOULD NOT BE USED FOR DISTANCE CALCULATIONS OR QUANTITY TAKE-OFFS.
  - ALL CABLING RUNS THAT REMAIN WITHIN JPMC AREAS SHALL BE PROPERLY SUPPORTED IN ACCORDANCE WITH ALL JPMC STANDARDS. ALL CABLING THAT IS RUN IN COMMON BUILDING AREAS AND OTHER TENANT SPACES MUST BE IN CONDUIT FOR THE FULL RUN OUTSIDE OF JPMC AREAS SUCH THAT NO JPMC CABLING IS ACCESSIBLE TO ANYONE OTHER THAN JPMC PERSONNEL. JUNCTION AND PULL BOXES AND OTHER ACCESS POINTS REQUIRED IN COMMON AREAS SHALL BE PROVIDED WITH LOCKS SO THAT THE CABLING IS INACCESSIBLE TO ANYONE OTHER THAN JPMC PERSONNEL.
  - FOR EACH CAT 6 AND CAT 6A CABLING LEAVING THE BUILDING TO SERVE EXTERIOR ISLAND ATM'S, ATM CANOPY CAMERAS AND EXTERIOR POLE MOUNTED CAMERAS, PROVIDE A SURGE PROTECTION DEVICE WITHIN THE RMER AT THE LOCATION OF SLAB PENETRATION.

|     |   |
|-----|---|
| --- | UTP 4-PAIR CABLE  |
| --- | F/UTP 4-PAIR CABLE  |
| --- | CARRIER FIBER OPTIC DEMARC EXTENSION CABLE                                |
| --- | SINGLE MODE FIBER OPTIC BACKBONE CABLE                                    |
| --- | HYBRID MULTIMODE FIBER OPTIC & 2-CONDUCTOR 12 AWG COPPER HORIZONTAL CABLE |

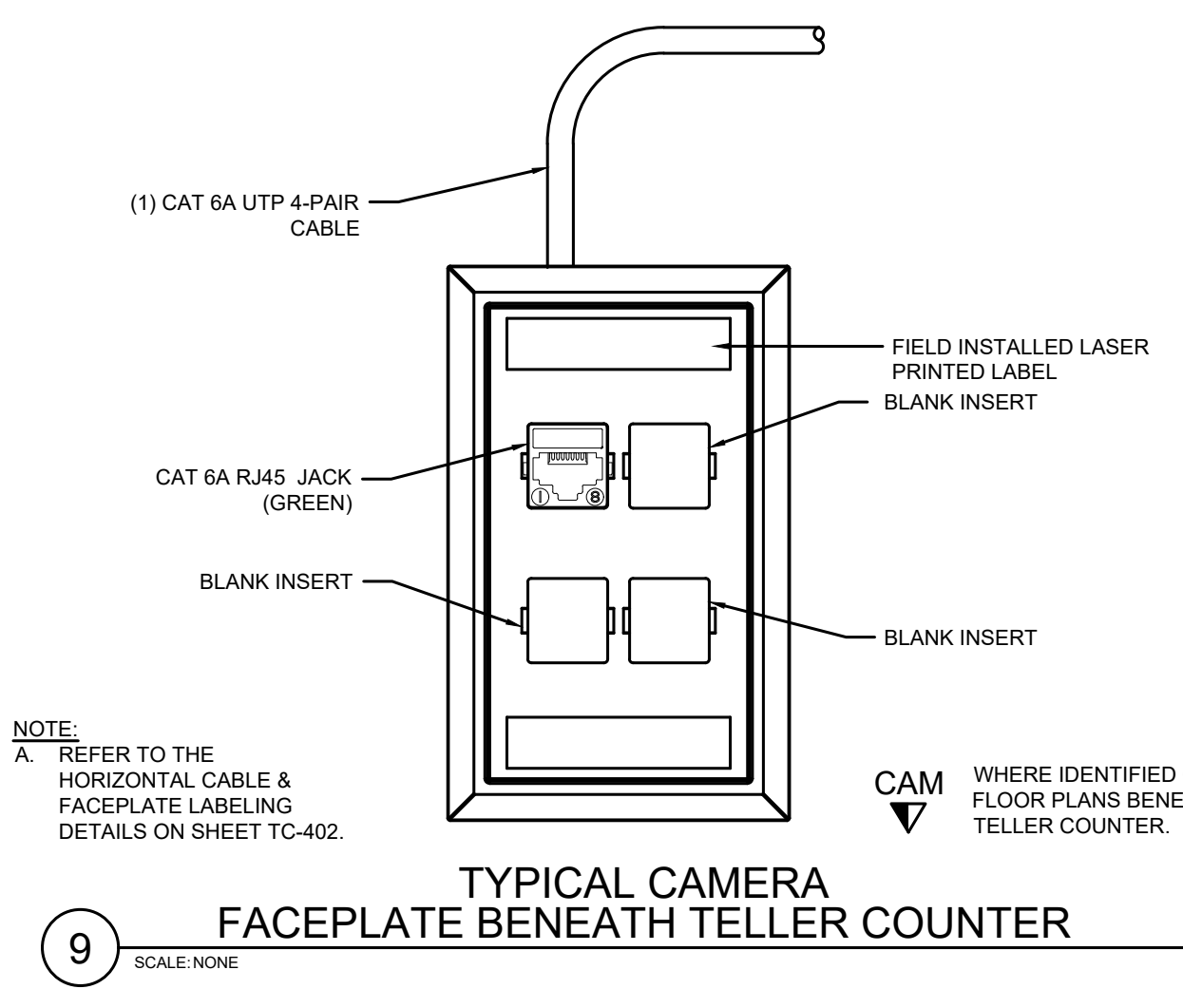
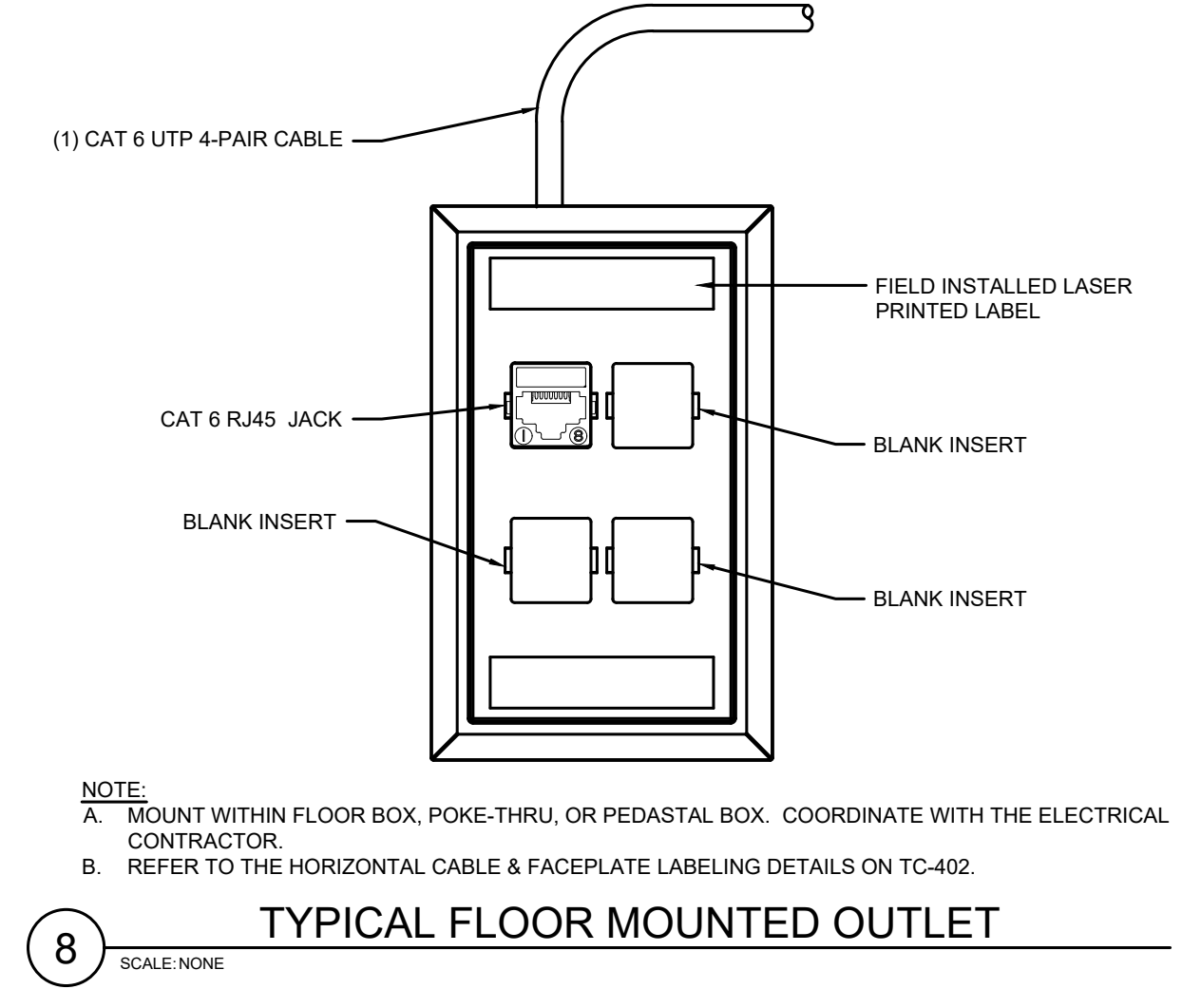




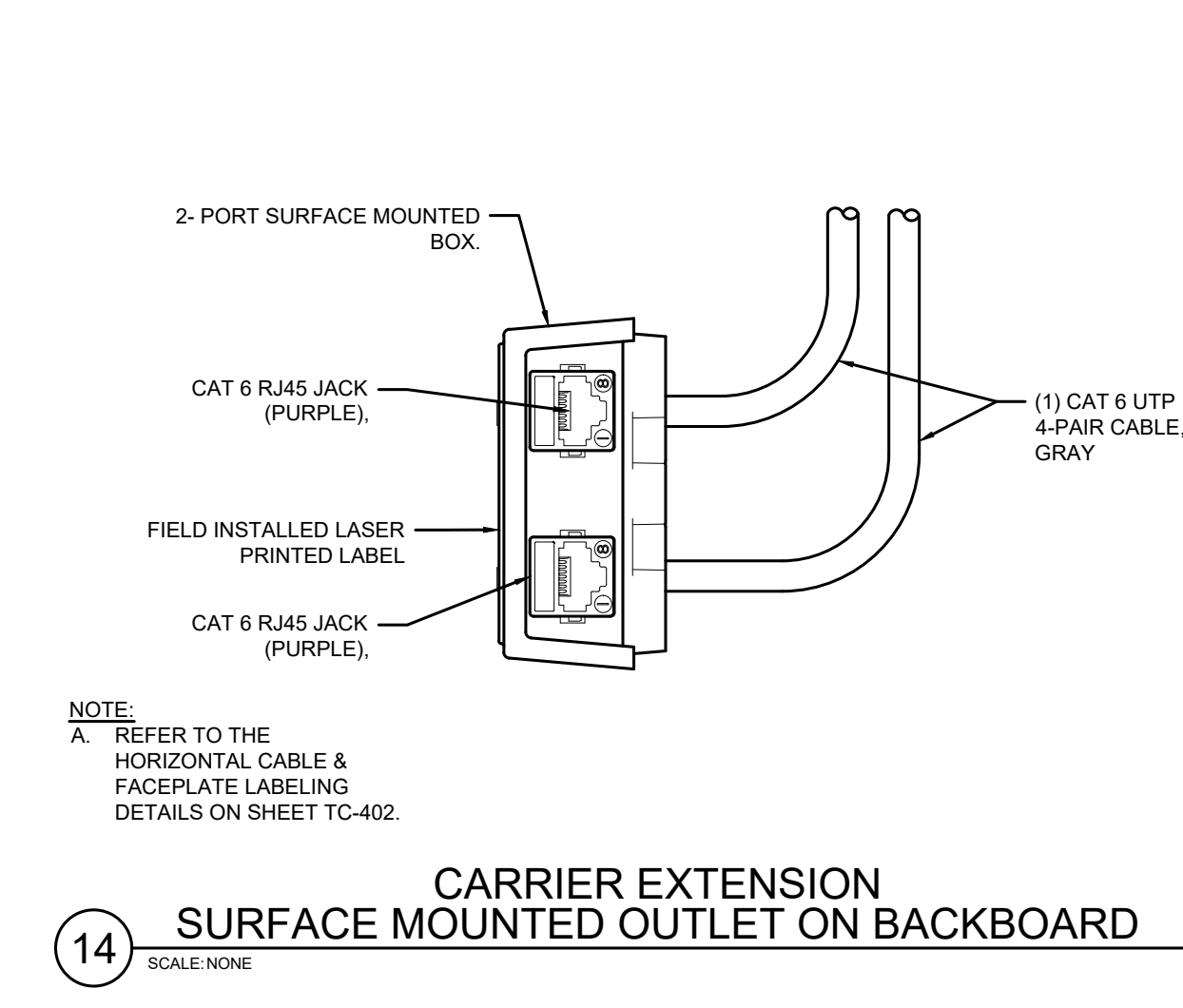
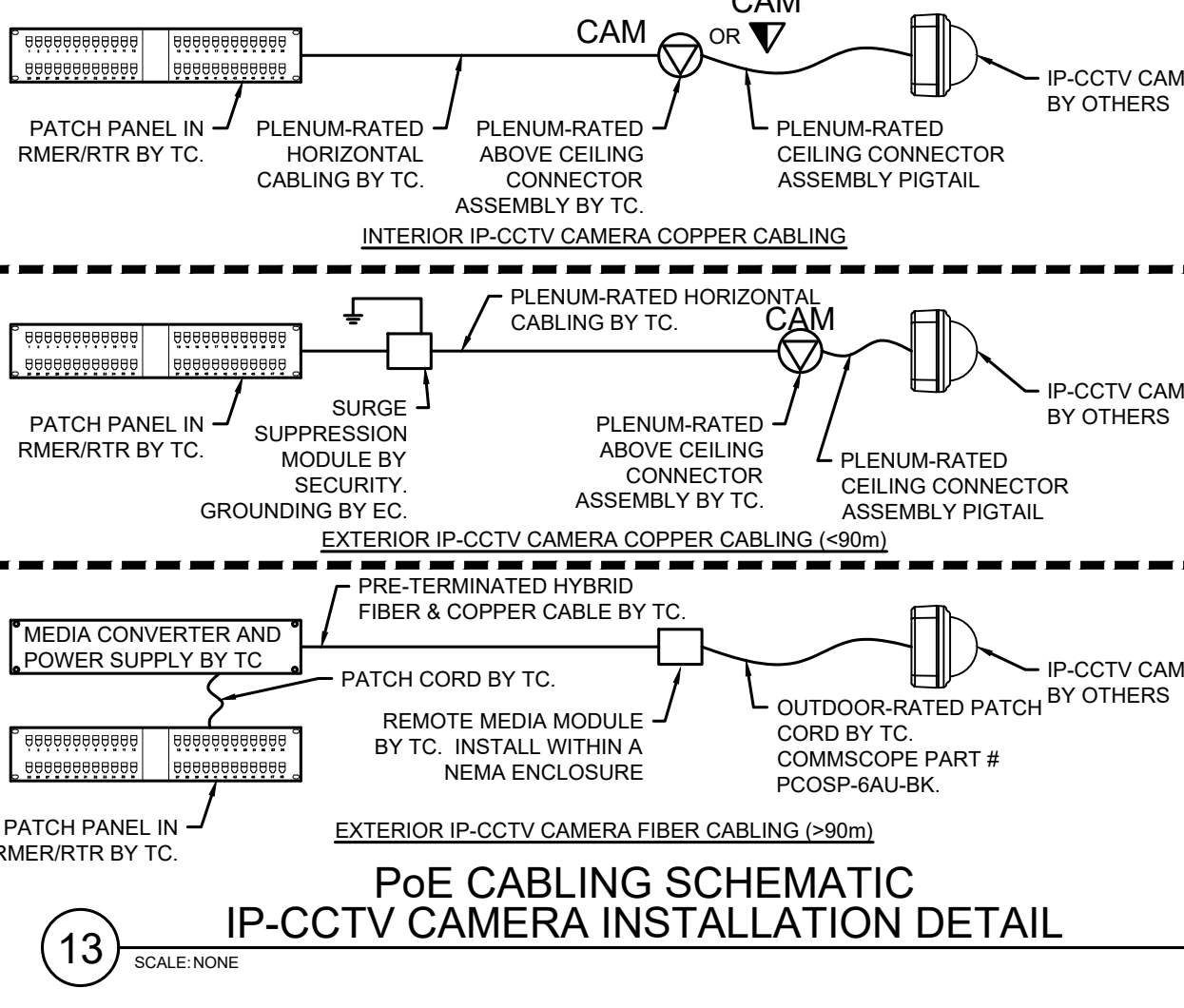
**NEW RETAIL  
 BRANCH  
 PRYOR RD. AND  
 LOWENSTEIN DR.**



| WORK AREA OUTLET SCHEDULE                 |   |                    |                    |                |
|---|---|--------------------|--------------------|----------------|
| TYPE                                      | DESCRIPTION   | COLOR              | MANUFACTURER       | PART NUMBER    |
| STANDARD JPMCC NETWORK WORK AREA OUTLETS  | CATEGORY 6 JACK   | GRAY               | COMMSCOPE/SYSTEMAX | 70020673       |
|   | ATM CATEGORY 6 JACK   | ORANGE             | COMMSCOPE/SYSTEMAX | 70020663       |
|   | FURNITURE MOUNTED FACEPLATE, 3-PORT   | WHITE              | COMMSCOPE/SYSTEMAX | 10965098       |
|   | FURNITURE MOUNTED FACEPLATE, 4-PORT   | WHITE              | COMMSCOPE/SYSTEMAX | 760118232      |
|   | WALL MOUNTED FACEPLATE, 4-PORT  | WHITE              | COMMSCOPE/SYSTEMAX | 108168543      |
|   | WALL MOUNTED FACEPLATE, 4-PORT FOR FI/FTP-CAT6A (TPC APPLICATIONS)  | WHITE              | COMMSCOPE/SYSTEMAX | 108168543      |
|   | FLOOR BOX MOUNTED FACEPLATE WITHIN FIRE RATED POKE-THRU, 3 PORTS (18" FRAME) - COORDINATE WITH FLOOR BOX MANUFACTURER | WHITE              | COMMSCOPE/SYSTEMAX | 108265455      |
| 2-PORT NON-PLENUM RATED SURFACE MOUNT BOX | WHITE   | COMMSCOPE/SYSTEMAX | 107984056          |                |
| WAP & CAMERA OUTLETS                      | CATEGORY 6A PLENUM RATED CEILING CONNECTOR ASSEMBLY WITH 15'-0" PIGTAIL   | WHITE              | COMMSCOPE/SYSTEMAX | 760235592      |
|   | CATEGORY 6A PLENUM RATED CEILING CONNECTOR ASSEMBLY WITH 15'-0" PIGTAIL   | WHITE              | COMMSCOPE/SYSTEMAX | C015J02-88F015 |
|   | WAP CATEGORY 6A JACK  | WHITE              | COMMSCOPE/SYSTEMAX | 760026429      |
|   | CAMERA CATEGORY 6A JACK   | GREEN              | COMMSCOPE/SYSTEMAX | 760026403      |
| CARRIER CONNECTION OUTLETS                | CARRIER CONNECTION CATEGORY 6 JACK  | PURPLE             | COMMSCOPE/SYSTEMAX | 700206675      |



| COLOR CODING CHART                        |  |       |
|---|--|-------|
| CAT 6 CABLE                               |  | GRAY  |
| CAT 6 PATCH CORD - STANDARD WALL OUTLET   |  | GRAY  |
| CAT 6 PATCH CORD - ATM WALL OUTLET        |  | GRAY  |
| CAT 6 CABLE FOR INNOVATION LAB NETWORK    |  | GRAY  |
| CAT 6A CABLE                              |  | WHITE |
| CAT 6A PATCH CORD - WIRELESS ACCESS POINT |  | WHITE |
| CAT 6A PATCH CORD - IP SECURITY CAMERA    |  | WHITE |
| CAT 6A SHIELDED CABLE                     |  | BLUE  |
| CAT 6A SHIELDED PATCH CORD                |  | BLUE  |



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site location **JP MORGAN CHASE & CO  
 908 NW PRYOR RD  
 LEE'S SUMMIT, MO 64081**

designed KB date 03.02.2022 drawn KB

checked CC scale AS NOTED

title **TELECOM  
 TERMINATION  
 DETAILS**

job no. C60025810702

sheet **TC-302**

**NEW RETAIL  
BRANCH  
PRYOR RD. AND  
LOWENSTEIN DR.**

keyplan

seal

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site location **JP MORGAN CHASE & CO**  
**908 NW PRYOR RD**  
**LEE'S SUMMIT, MO 64081**

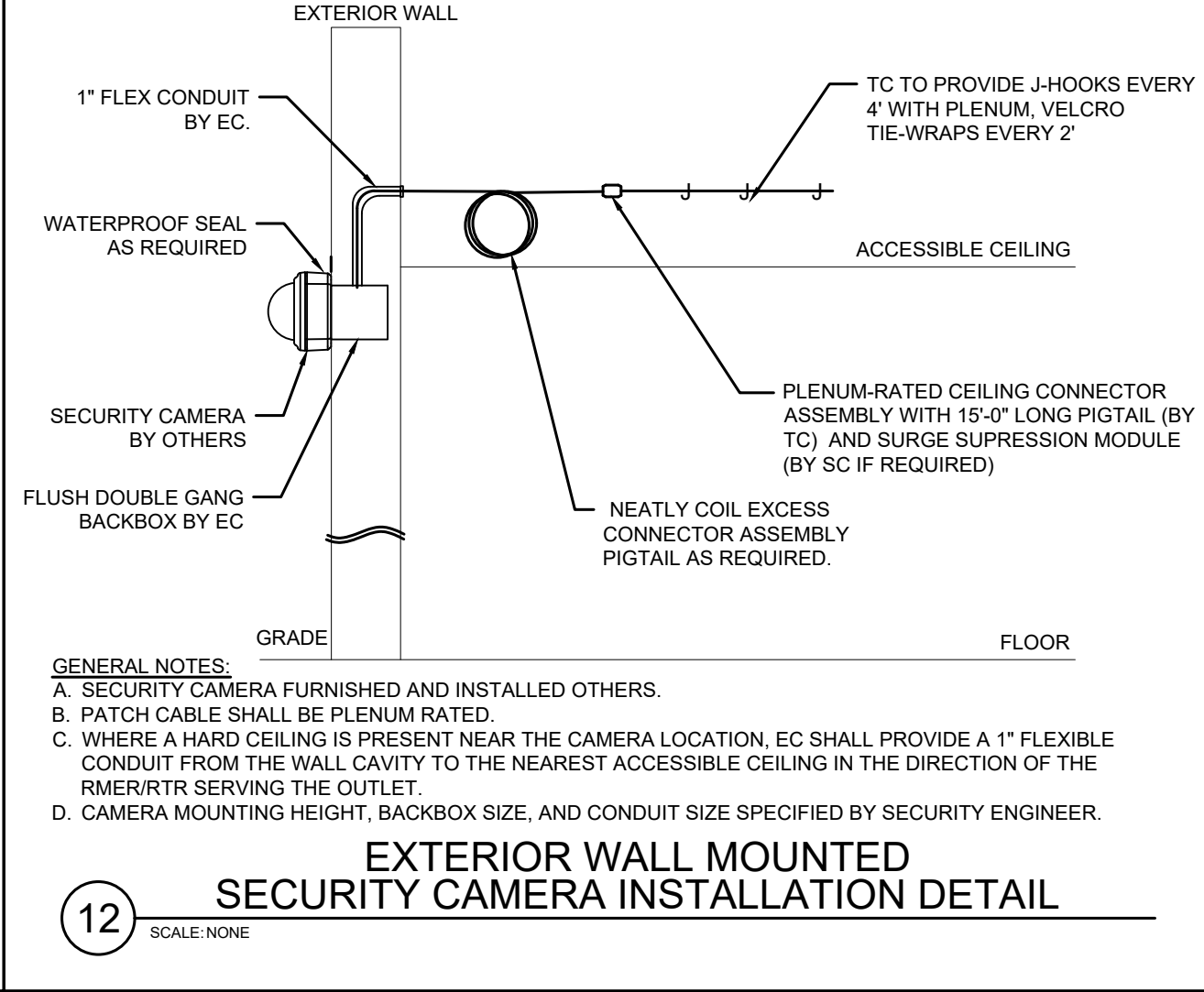
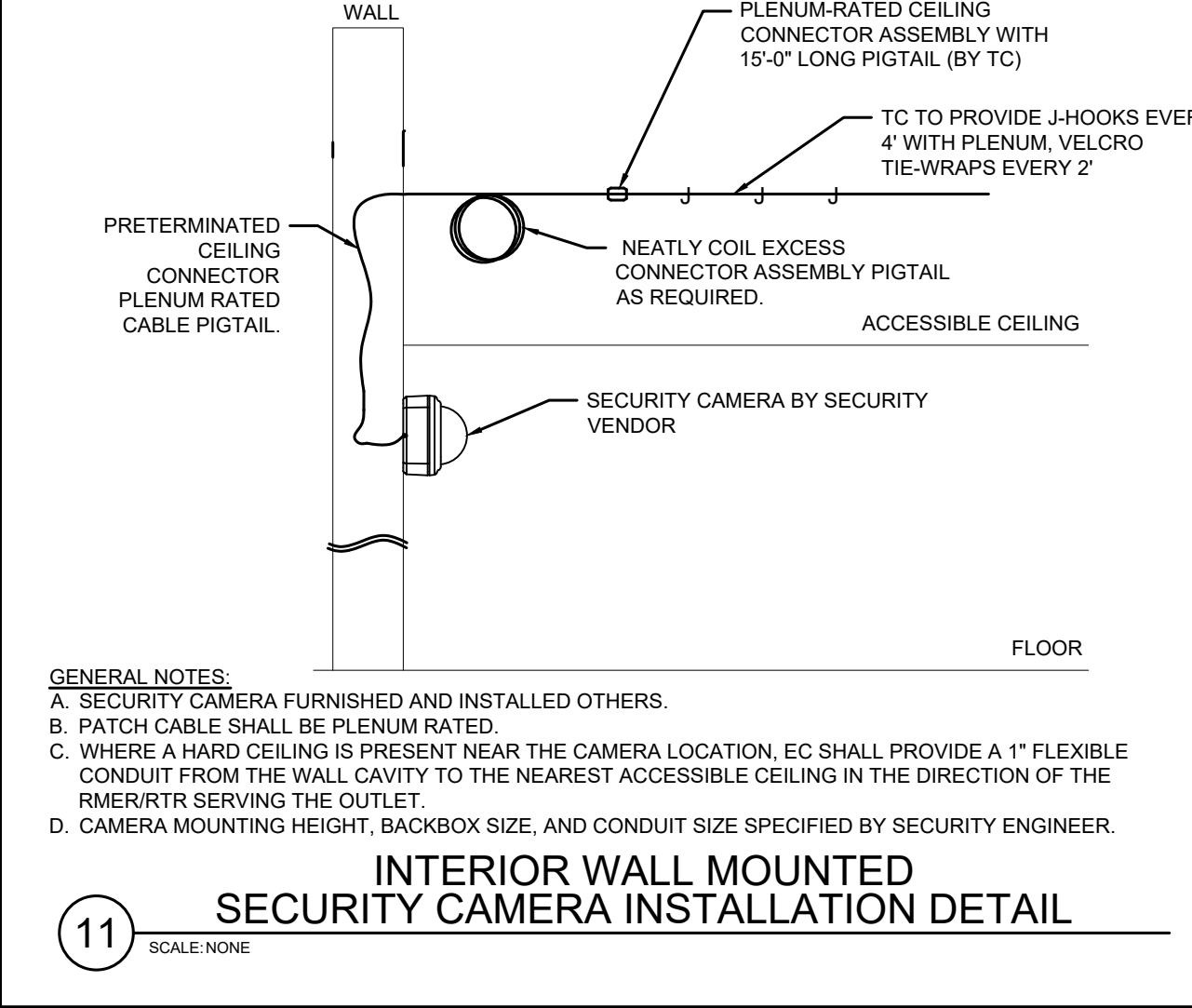
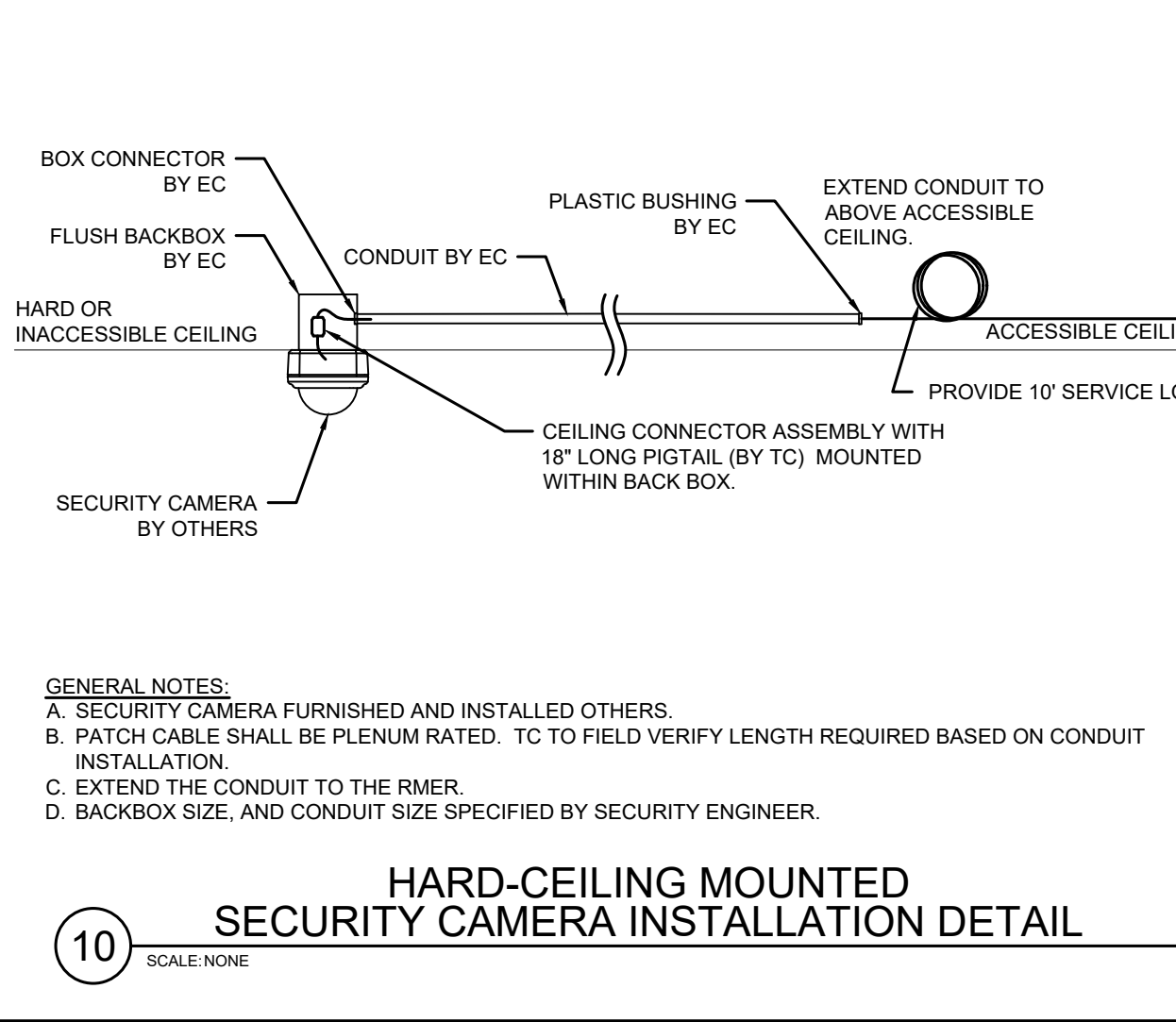
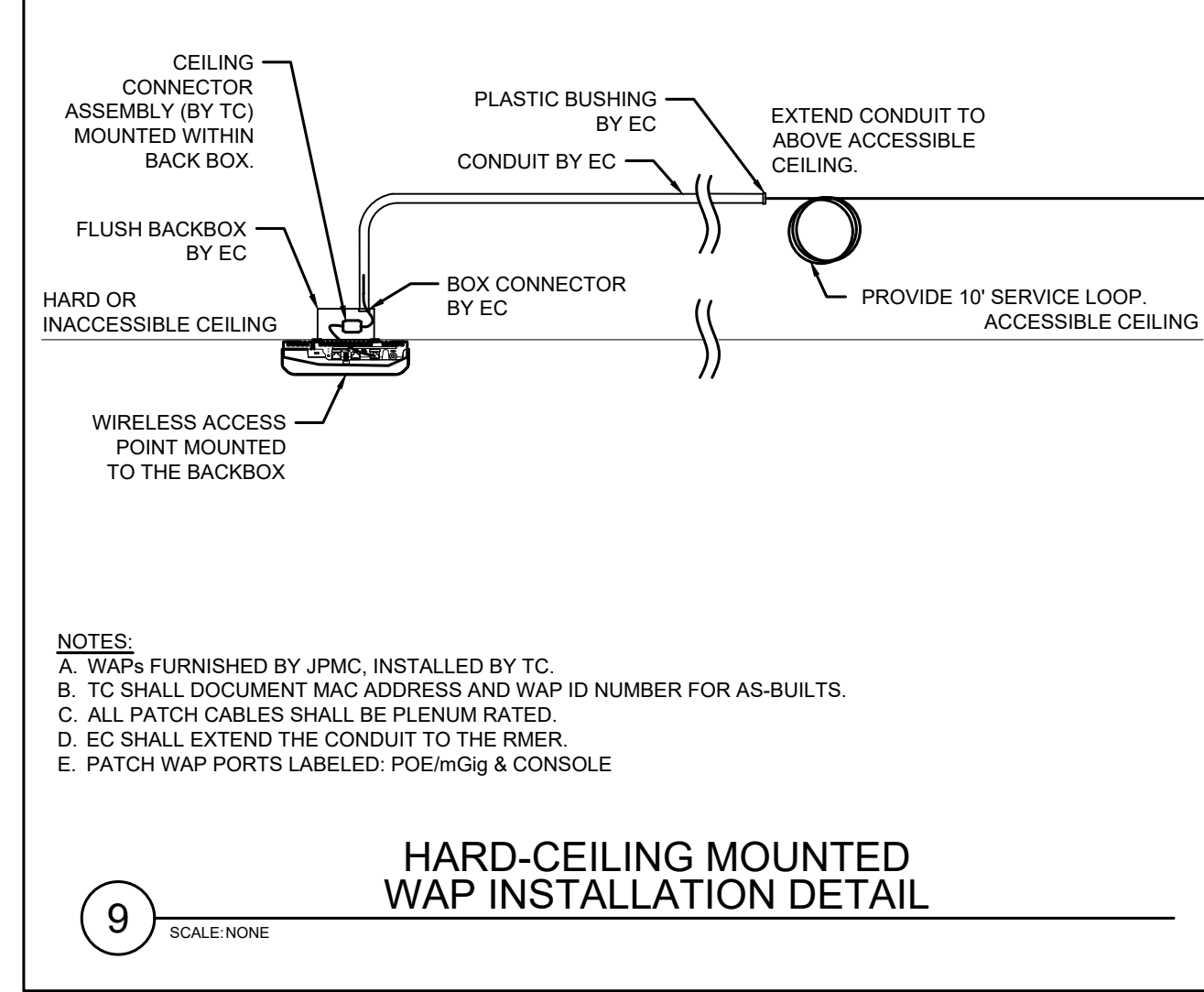
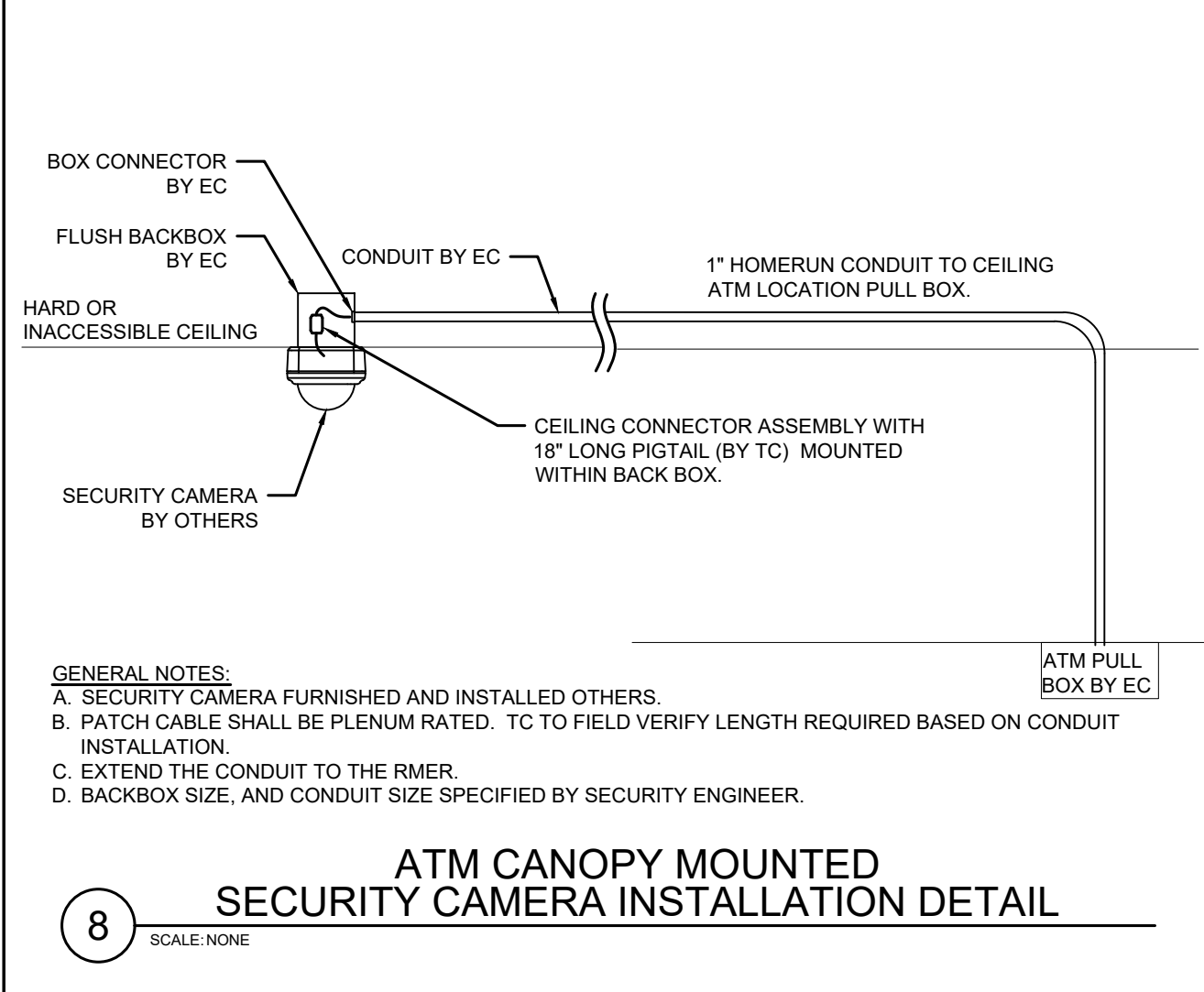
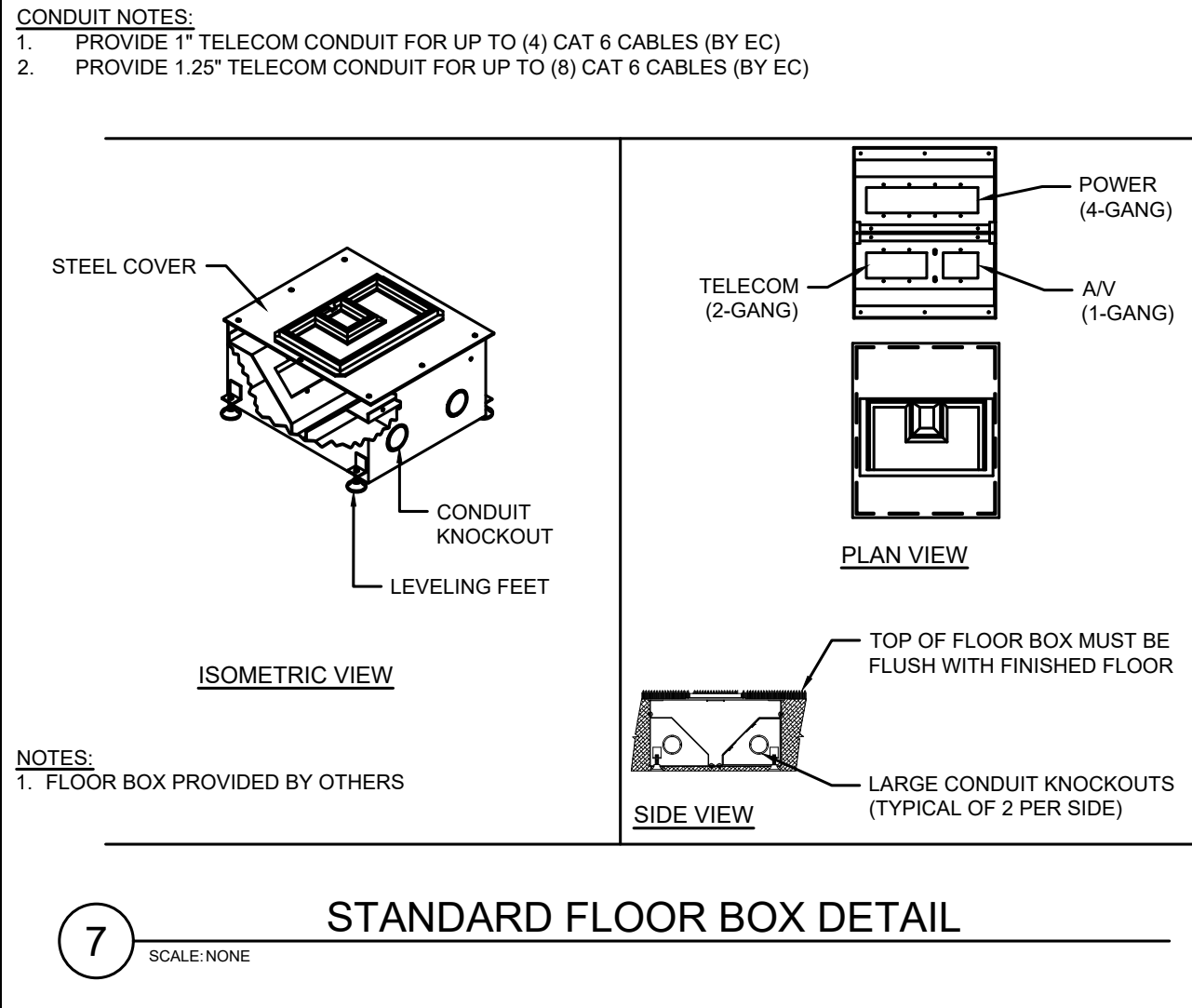
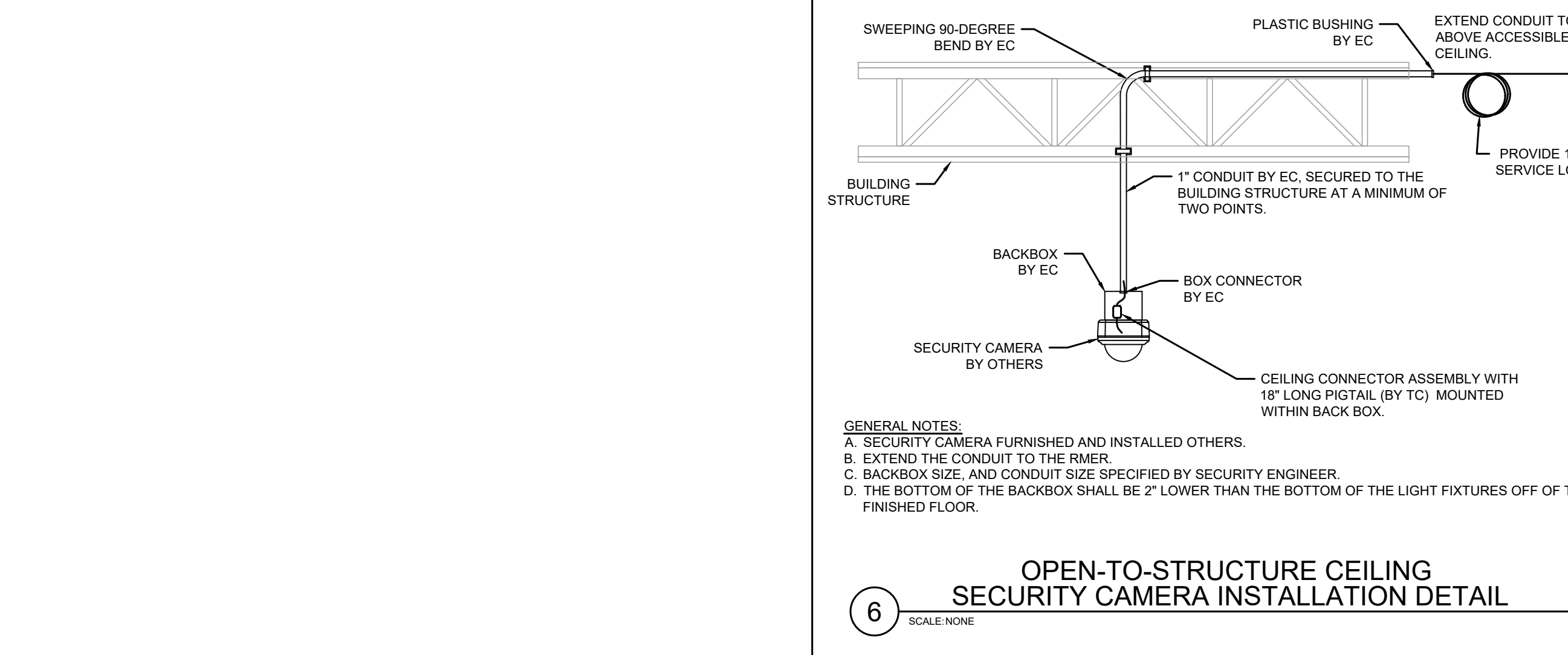
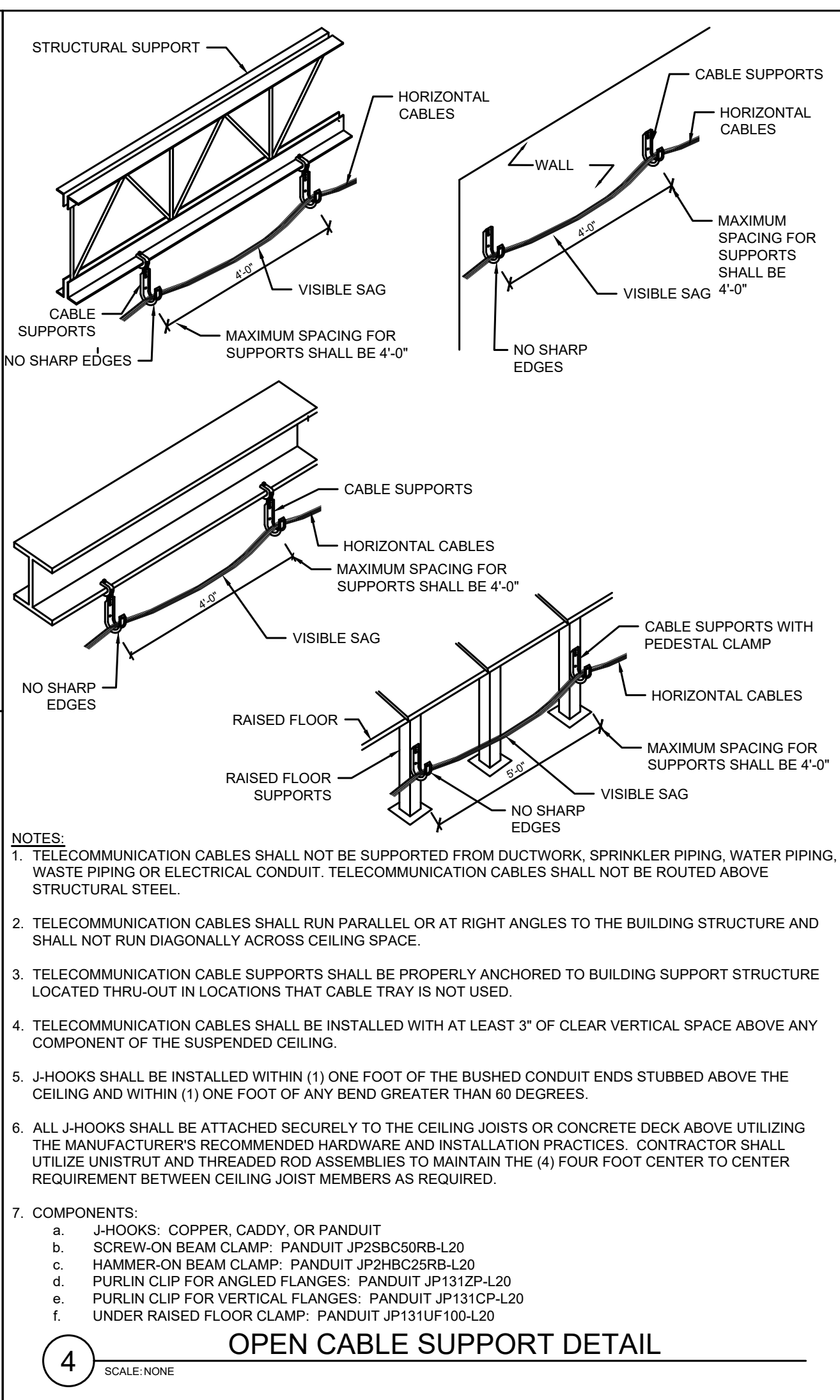
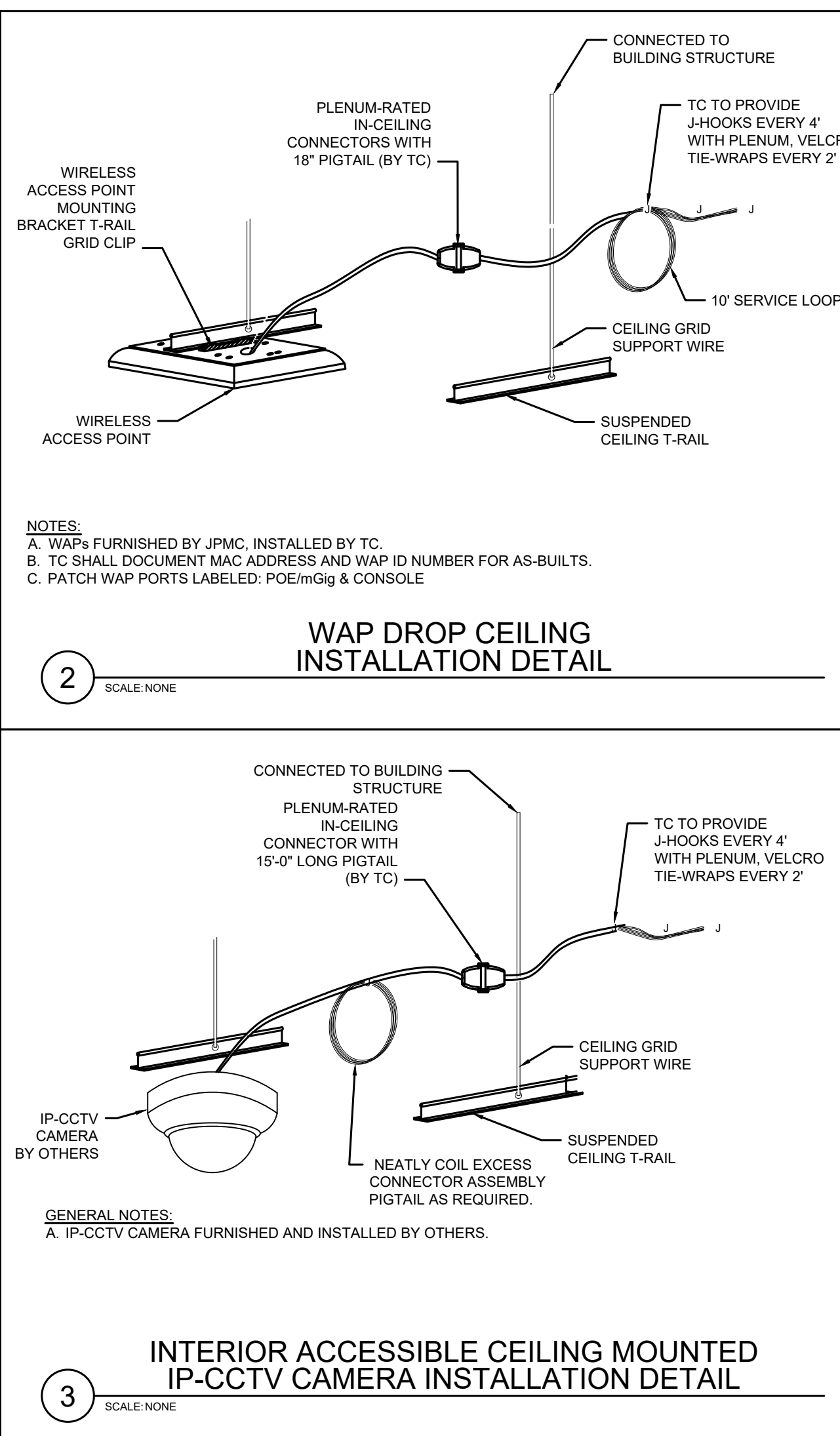
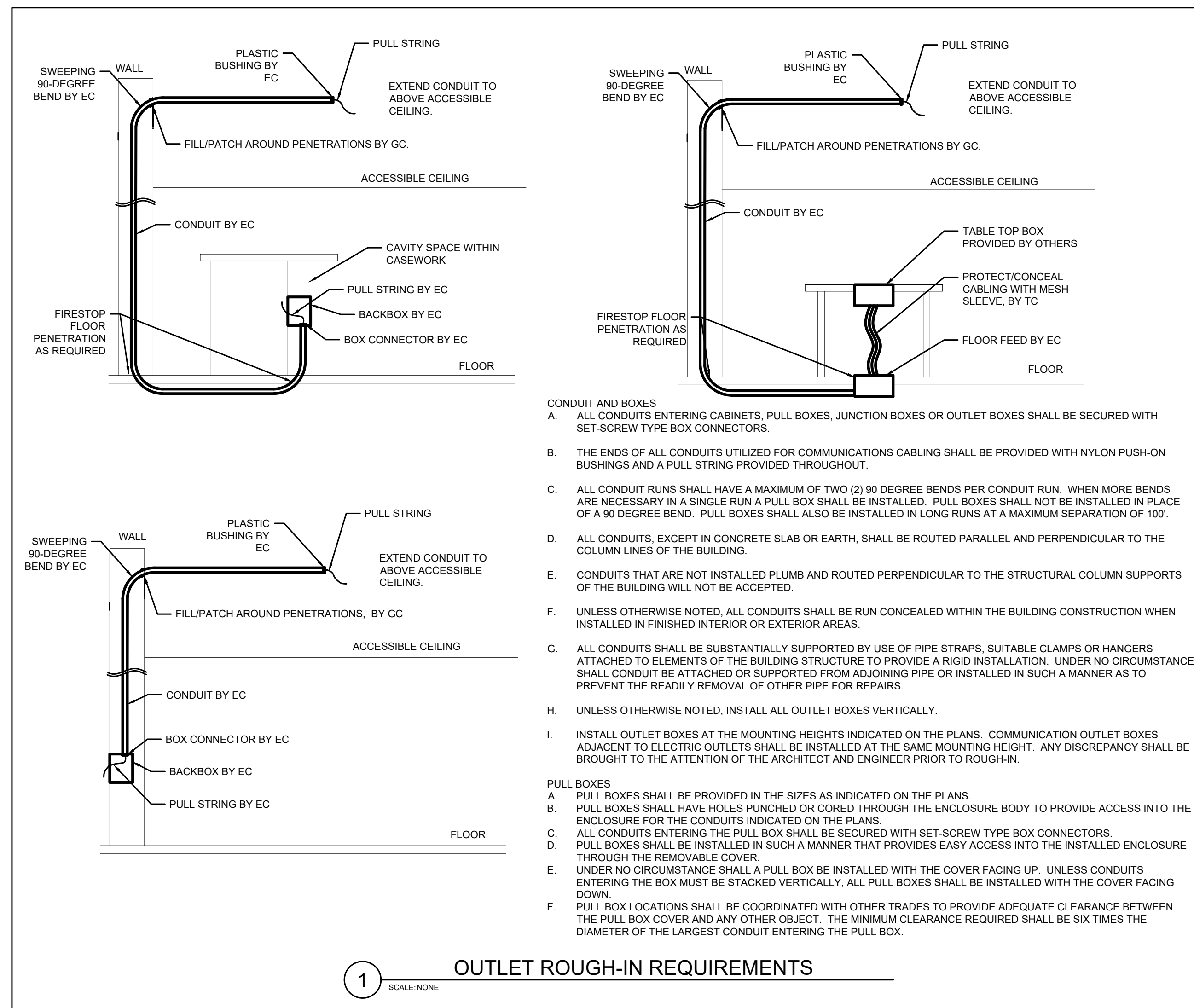
designed KB date 03.02.2022 drawn KB  
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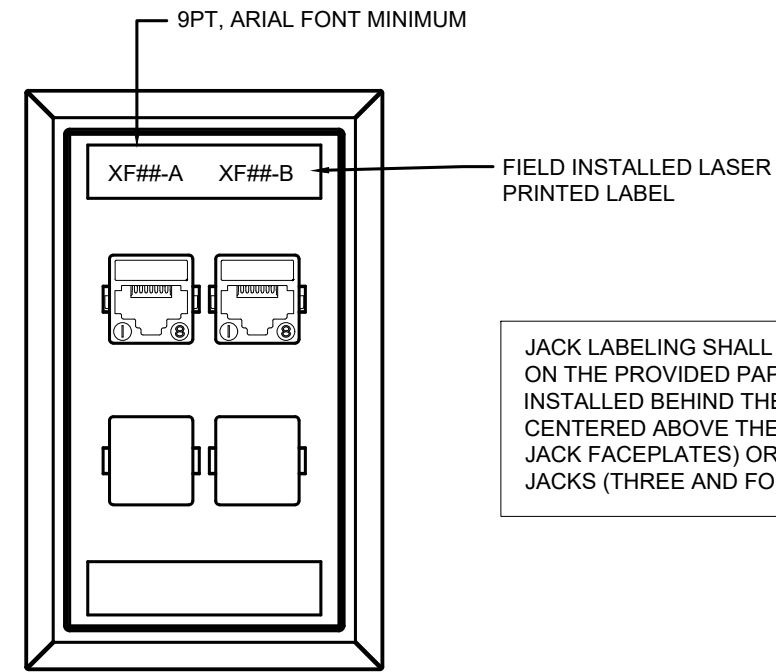
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INSTALLATION DETAILS**

job no. **C60025810702**

sheet

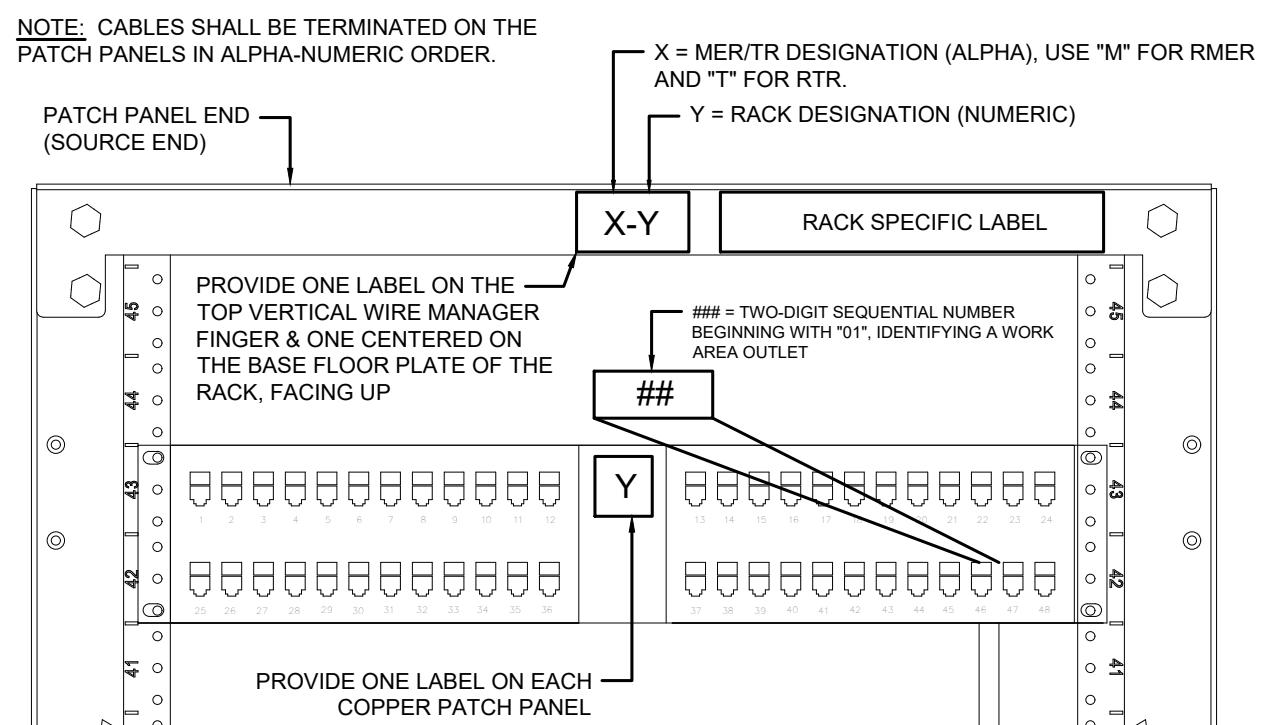
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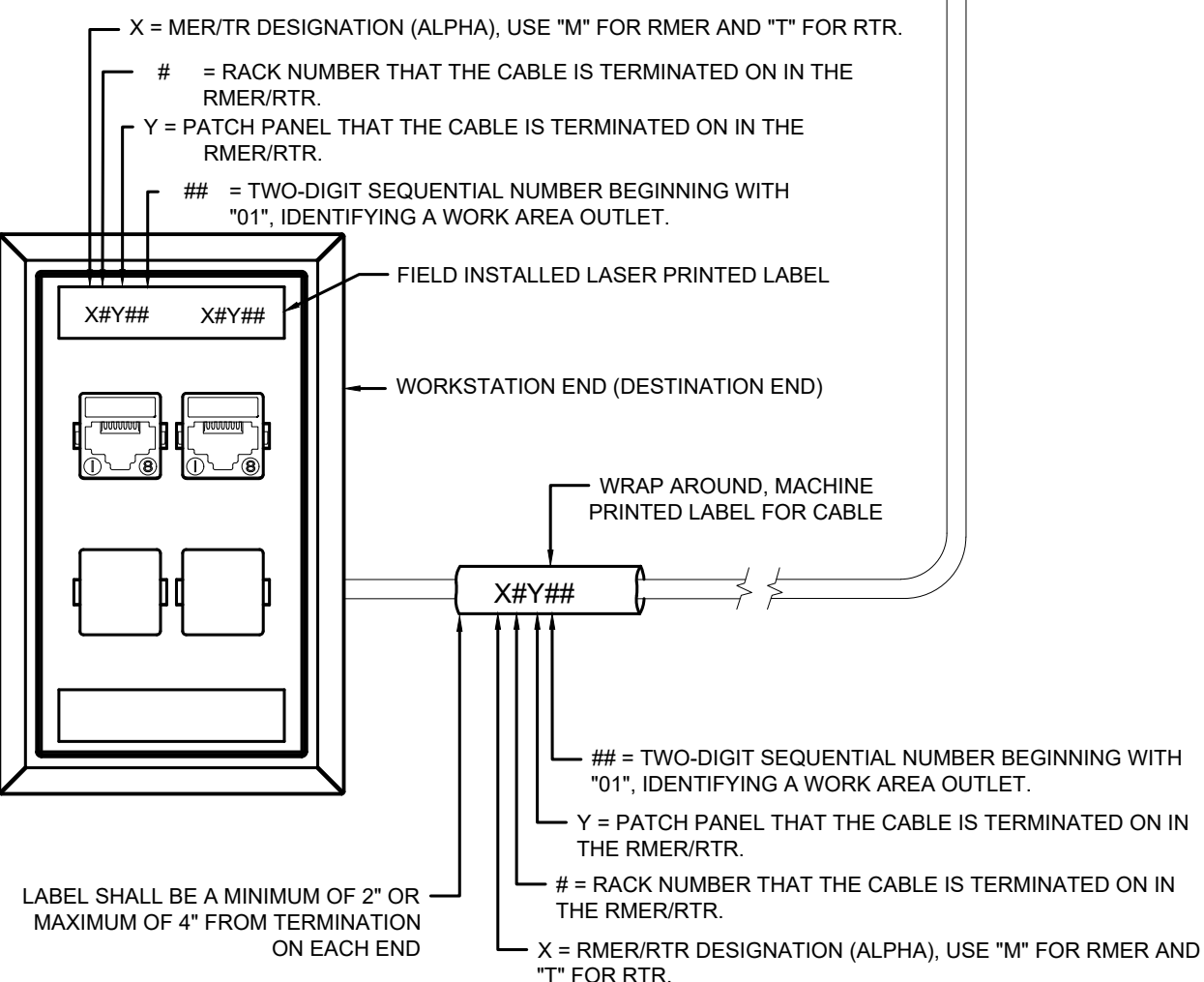
**1 FACEPLATE LABELING CONFIGURATION**  
SCALE: NONE (GRID OUTLET NUMBERING)

JACK LABELING SHALL BE MACHINE PRINTED ON THE PROVIDED PAPER LABEL AND INSTALLED BEHIND THE CLEAR WINDOW(S), CENTERED ABOVE THE JACK (ONE AND TWO JACK FACEPLATES) OR ABOVE & BELOW THE JACKS (THREE AND FOUR JACK FACEPLATES).



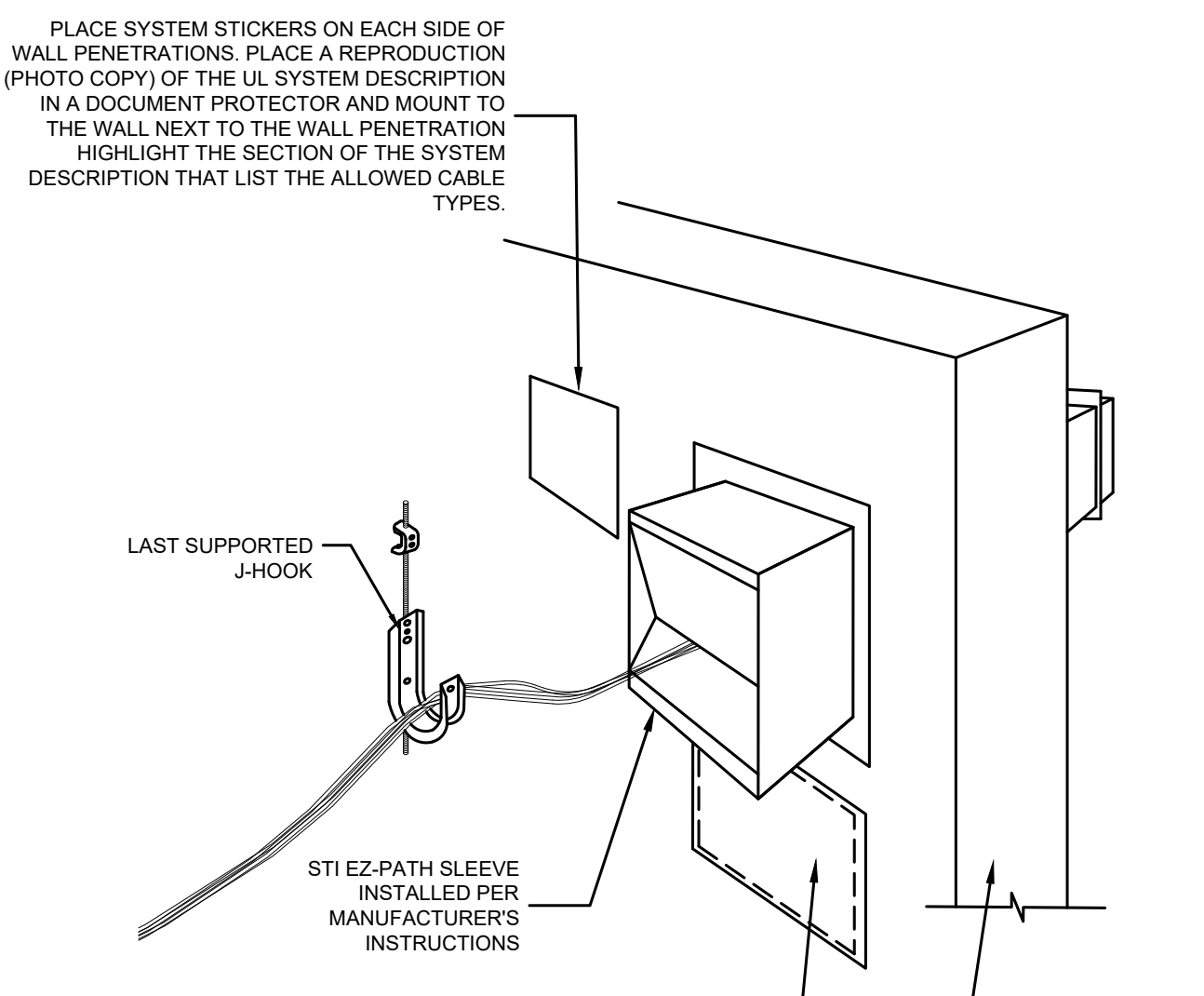
NOTE: CABLES SHALL BE TERMINATED ON THE PATCH PANELS IN ALPHA-NUMERIC ORDER.

RACK EXAMPLE: M-2 WHERE:  
M = MAIN EQUIPMENT ROOM  
2 = RACK #2  
OUTLET EXAMPLE: M2A01  
M = OUTLET SERVED BY THE MER  
2 = RACK #2  
Y = PATCH PANEL "A"  
01 = THE FIRST OUTLET ON THE PATCH PANEL.



NOTES:  
A. IF LABEL IS AFFIXED TO A BLACK OR DARK GRAY SURFACE, LABEL INFORMATION SHALL BE WHITE IN COLOR. IF LABEL IS AFFIXED TO BEIGE OR LIGHT-COLORED SURFACE, LABEL INFORMATION SHALL BE BLACK IN COLOR.  
B. COPPER PATCH PANEL LABELS SHALL EMPLOY MANUFACTURER-SUPPLIED LABELING MATERIALS AND COVERS (IF APPLICABLE), AFFIXED TO EACH PANEL IN ACCORDANCE WITH MANUFACTURER SPECIFICATIONS.  
C. ATM PATCH CORD WARNING LABELS SHALL BE MOUNTED ON SELF-LAMINATING CABLE MARKER HOLDERS THAT ARE SECURELY AFFIXED TO THE PATCH CORD WITH VELCRO TIES.

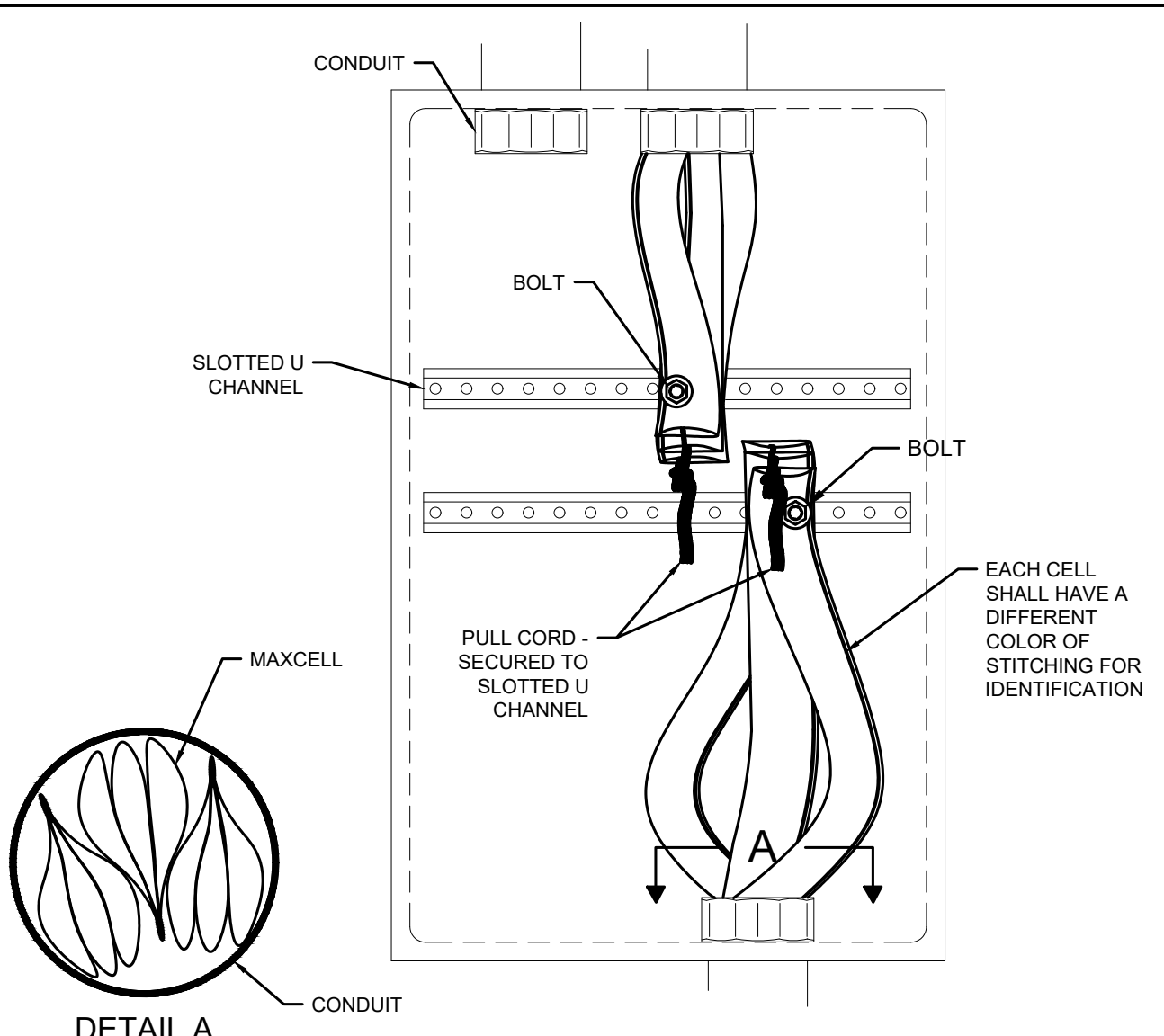
**5 STRUCTURED CABLING LABELING**  
SCALE: NONE



PLACE SYSTEM STICKERS ON EACH SIDE OF WALL PENETRATIONS. PLACE A REPRODUCTION (PHOTO COPY) OF THE UL SYSTEM DESCRIPTION IN A DOCUMENT PROTECTOR AND MOUNT TO THE WALL NEXT TO THE WALL PENETRATION. HIGHLIGHT THE SECTION OF THE SYSTEM DESCRIPTION THAT LIST THE ALLOWED CABLE TYPES.

NOTES:  
A. BEFORE BEGINNING INSTALLATION, VERIFY THAT SUBSTRATE CONDITIONS PREVIOUSLY INSTALLED UNDER OTHER SECTIONS ARE ACCEPTABLE FOR INSTALLATION OF FIRESTOPPING IN ACCORDANCE WITH MANUFACTURER'S INSTALLATION INSTRUCTIONS AND TECHNICAL INFORMATION.  
B. SURFACES SHALL BE FREE OF DIRT, GREASE, OIL, SCALE, LAITANCE, RUST, RELEASE AGENTS, WATER REPELLANTS, AND ANY OTHER SUBSTANCES THAT MAY INHIBIT OPTIMUM ADHESION.  
C. PROVIDE MASKING AND TEMPORARY COVERING TO PROTECT ADJACENT SURFACES.  
D. DO NOT PROCEED UNTIL UNSATISFACTORY CONDITIONS HAVE BEEN CORRECTED.  
E. GENERAL: INSTALL SYSTEMS IN ACCORDANCE WITH PERFORMANCE CRITERIA AND IN ACCORDANCE WITH THE CONDITIONS OF TESTING AND CLASSIFICATION AS SPECIFIED IN THE PUBLISHED DESIGN.  
F. MANUFACTURER'S INSTRUCTIONS: COMPLY WITH MANUFACTURER'S INSTRUCTIONS FOR INSTALLATION OF PRODUCTS.  
G. KEEP AREAS OF WORK ACCESSIBLE UNTIL INSPECTION BY AUTHORITIES HAVING JURISDICTION.  
H. WHERE DEFICIENCIES ARE FOUND, REPAIR FIRESTOPPING PRODUCTS SO THEY COMPLY WITH REQUIREMENTS.  
I. REMOVE EQUIPMENT, MATERIALS, AND DEBRIS, LEAVING AREA IN UN Damaged, CLEAN CONDITION.  
J. CLEAN ALL SURFACES ADJACENT TO SEALED OPENINGS TO BE FREE OF EXCESS FIRESTOPPING MATERIALS AND SOILING AS WORK PROGRESSES.

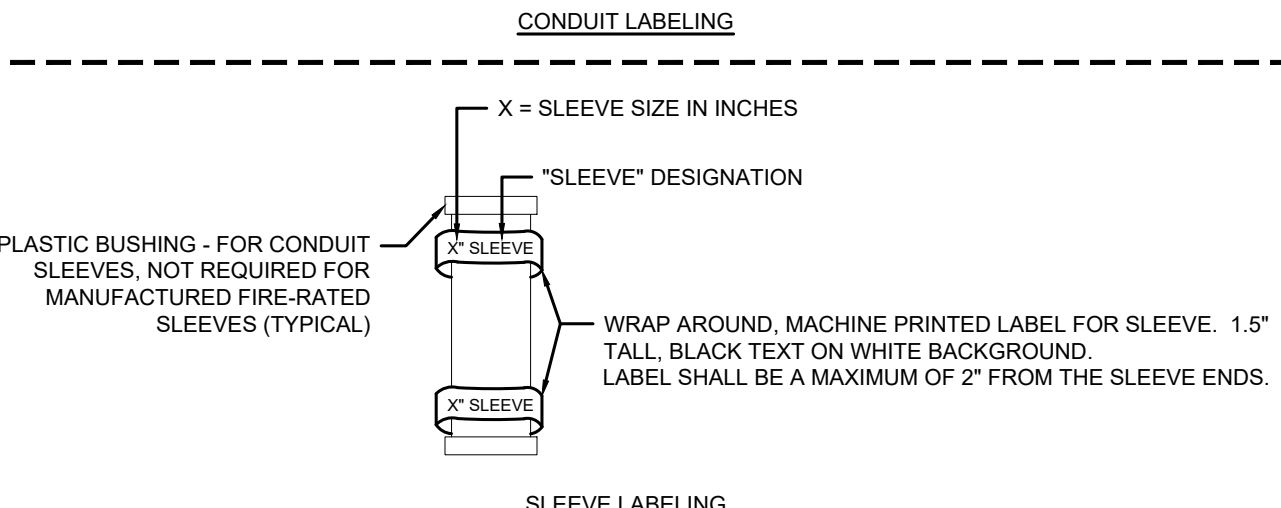
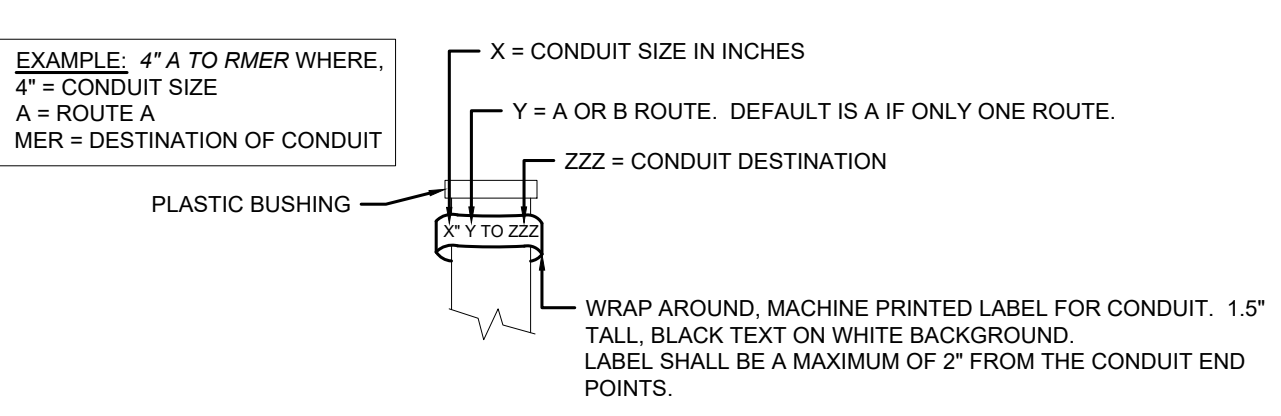
**2 CABLE BUNDLE THROUGH PENETRATION DETAIL FOR WALL CONSTRUCTION**  
SCALE: NONE



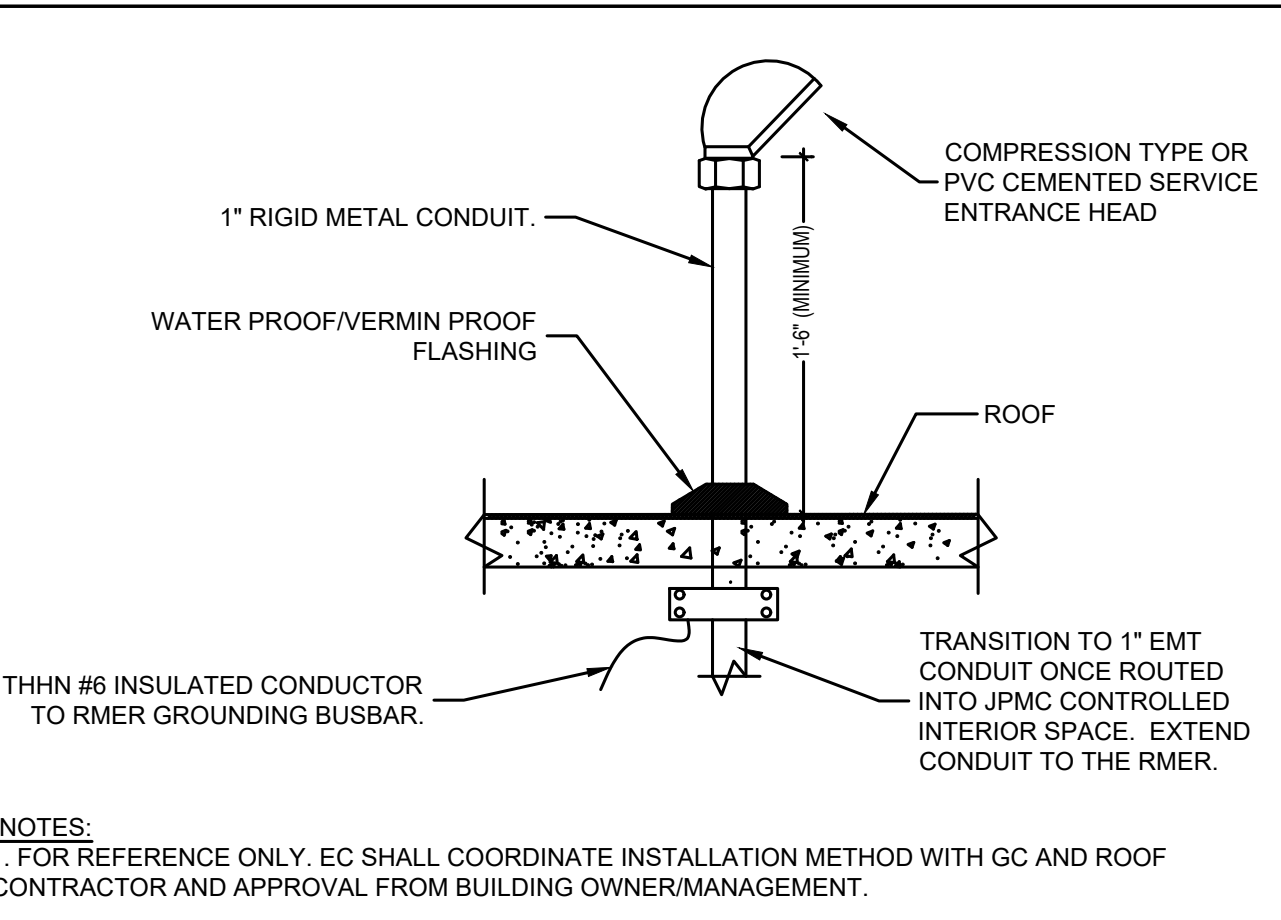
NOTES:  
1. FOR EACH 2 INCH CONDUIT, INSTALL (1) 2-IN 3-CELL MAXCELL INNERDUCT.  
2. UNLESS WAIVED IN WRITING BEFORE COMMENCEMENT OF WORK, CONTRACTOR SHALL ENGAGE MANUFACTURER PRIOR TO THE PULL TO ASSURE RECOMMENDED INSTALLATION METHODS ARE FOLLOWED.  
3. A BALL BEARING SWIVEL (BULL NOSE SWIVEL) MUST ALWAYS BE USED BETWEEN THE PULL ROPE AND MAXCELL. FAILURE TO DO SO MAY RESULT IN PULL ROPE OR TAPE INDUCING TWIST, CAUSING THE MAXCELL TO TWIST EXCESSIVELY AND MAY MAKE IT DIFFICULT TO PULL CABLE.  
4. CELL ASSIGNMENTS MUST BE DOCUMENTED AT EACH APPEARANCE OF THE INNER DUCT.  
5. EXCEPT WHERE NOTED, CONDUIT THAT IS 50 MM (2 IN) IN DIAMETER SHOULD BE EQUIPPED WITH 2" 3-CELL SOFT DUCT QUANTITY 1. CONDUIT THAT IS 75 MM (3 IN) SHOULD BE EQUIPPED WITH 3" 3-CELL SOFT DUCT, MAXIMUM QUANTITY 2. AND 100 MM (4 IN) IN DIAMETER SHOULD BE EQUIPPED WITH 3" 3-CELL SOFT DUCT, MAXIMUM QUANTITY 2.  
7. THE OUTSIDE DIAMETER OF PULLING GRIPS ASSOCIATED WITH FACTORY TERMINATED FIBER TRUNK CABLES WILL AFFECT THE SELECTION OF SOFT DUCT. SEE TABLE 1 FOR DETAIL.

| TABLE 1 - SOFT DUCT SIZING GUIDELINE | MAXIMUM CABLE/GRIP DIAMETER PER CELL MM(IN) | CELL SIZE |
|--------------------------------------|---|-----------|
| 18 (7)                               | 2"  |           |
| 26 (1.03)                            | 3"  |           |
| 34 (1.34)                            | 4"  |           |
| >34 (1.34)                           | SEE OPR                                     |           |

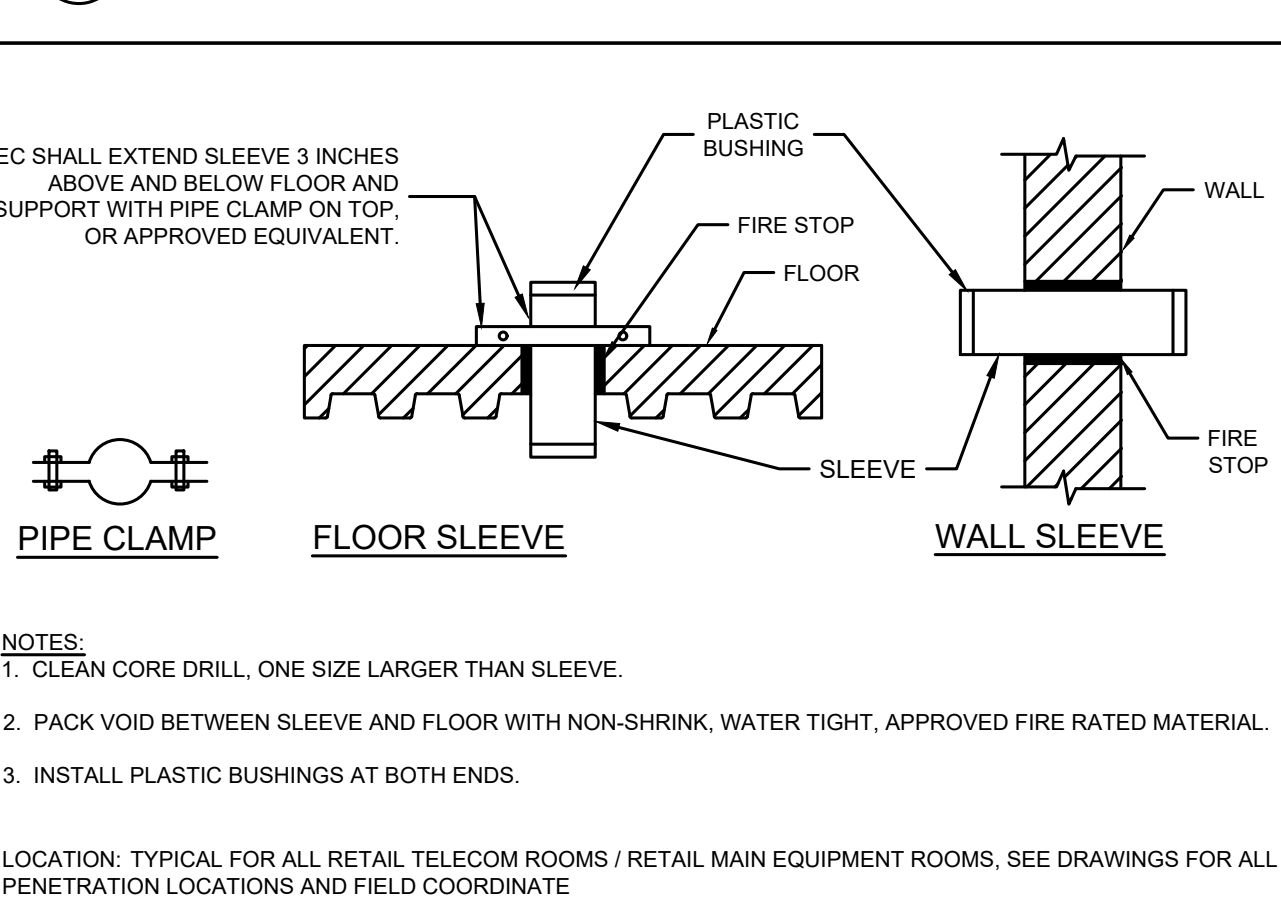
**6 TYPICAL MAXCELL 2", 3-CELL INNERDUCT**  
SCALE: NONE



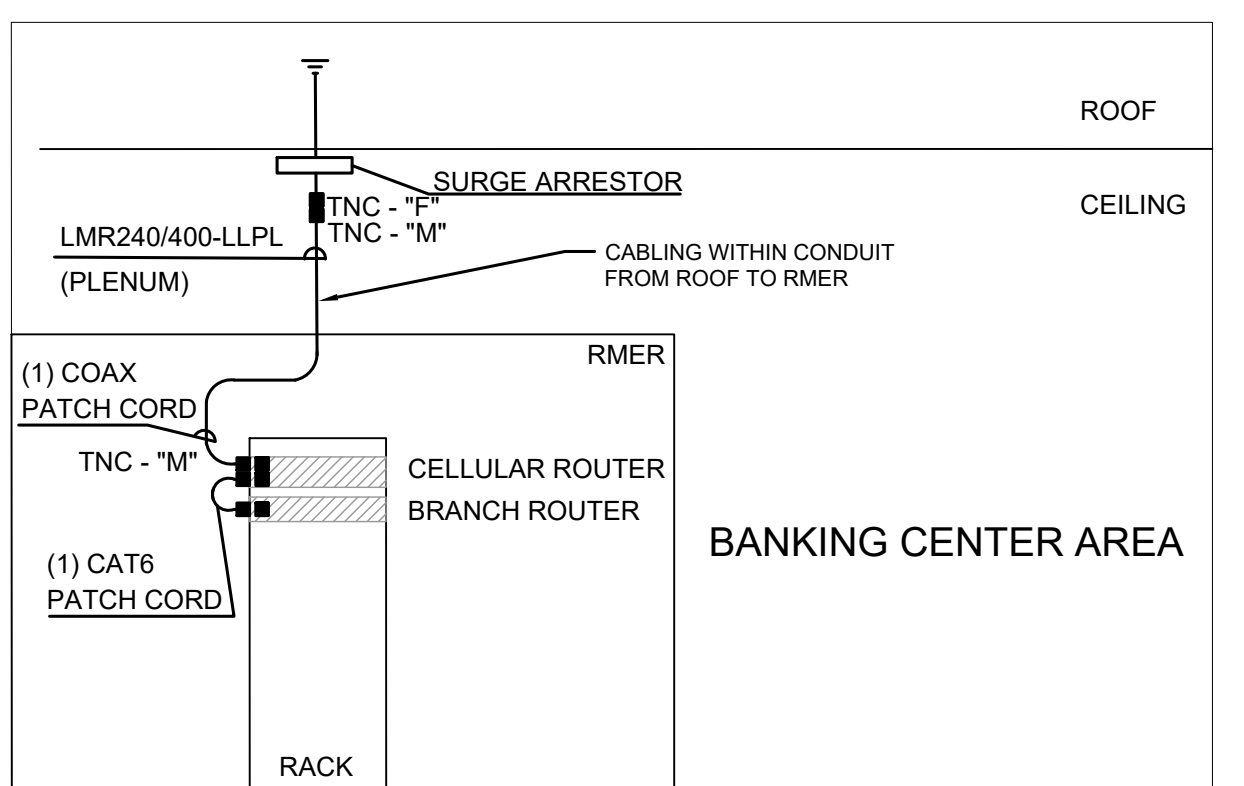
**3 CONDUIT AND SLEEVE LABELING DETAIL**  
SCALE: NONE



**7 ROOF CONDUIT WEATHERHEAD DETAIL**  
SCALE: NONE



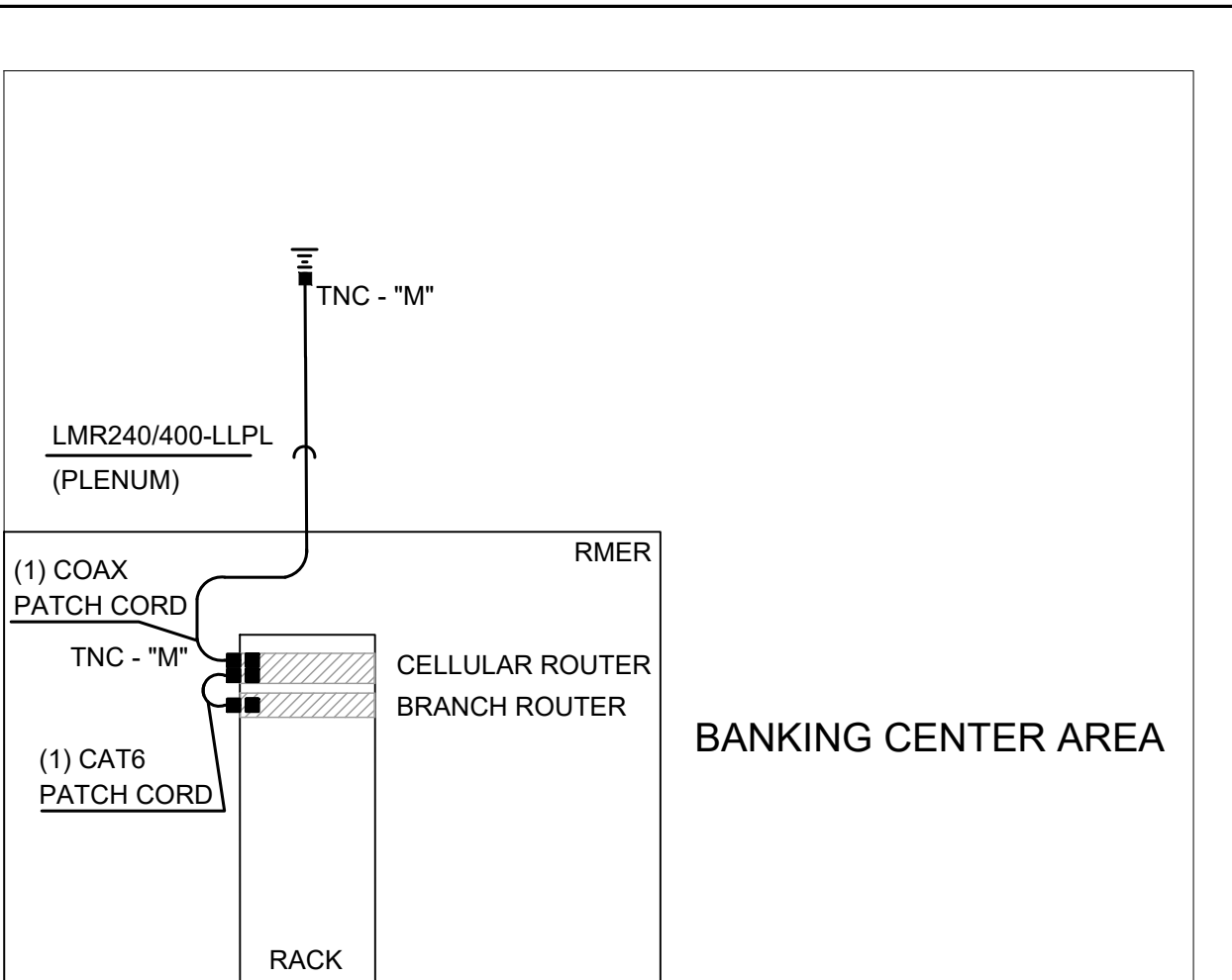
**8 TYPICAL FLOOR AND WALL SLEEVE PENETRATION DETAILS**  
SCALE: NONE



NOTE:  
1. DETAIL IS SHOWN FOR REFERENCE ONLY. WIRELESS CELLULAR SYSTEM INFRASTRUCTURE WILL BE PROVIDED BY THIRD PARTY CONTRACTOR.  
2. CODE REQUIRES THE OUTDOOR RATED COAX TO THE ROOF ANTENNA BE TRANSITIONED WITHIN 50 FEET OF PENETRATING THE ROOF, TO A PLENUM RATED COAX.  
3. SURGE ARRESTOR TO BE LOCATED AS CLOSE AS POSSIBLE TO CEILING PENETRATION.  
4. VERIFY ANTENNA, SURGE ARRESTOR, AND CELLULAR ROUTER CONNECTION TYPES PRIOR TO TERMINATING THE COAX CABLES.  
5. ALL FIELD TERMINATED CABLES ARE TO BE TESTED.

MAJOR MATERIALS:  
1. OUTDOOR OMNIDIRECTIONAL ANTENNA FOR 2G/3G/4G CELLULAR (JPMC SUPPLIED)  
2. 4G LIGHTNING SUPPRESSORS/ARRESTORS FOR OUTDOOR ANTENNA INSTALLS  
3. CEILING MOUNT BRACKET (JDTACK) FOR INDOOR PANEL ANTENNA INSTALLS  
4. DIRECTIONAL (PANEL OR LOG PERIODIC STYLE) ANTENNAS (JPMC SUPPLIED)  
5. LMR-240 FLEXIBLE LOW LOSS COMMUNICATIONS COAX OR LMR-400 FLEXIBLE LOW LOSS COMMUNICATIONS COAX  
6. TNC CONNECTORS (TO ROUTER), N CONNECTORS TO ANTENNA

**4 ROOF ANTENNA MOUNTING OPTION**  
SCALE: NONE



NOTE:  
1. DETAIL IS SHOWN FOR REFERENCE ONLY. WIRELESS CELLULAR SYSTEM INFRASTRUCTURE WILL BE PROVIDED BY THIRD PARTY CONTRACTOR.  
2. CODE REQUIRES THE OUTDOOR RATED COAX TO THE ROOF ANTENNA BE TRANSITIONED WITHIN 50 FEET OF PENETRATING THE ROOF, TO A PLENUM RATED COAX.  
3. VERIFY ANTENNA, AND CELLULAR ROUTER CONNECTION TYPES PRIOR TO TERMINATING THE COAX CABLES.  
4. ALL FIELD TERMINATED CABLES ARE TO BE TESTED.

MAJOR MATERIALS:  
1. OUTDOOR OMNIDIRECTIONAL ANTENNA FOR 2G/3G/4G CELLULAR (JPMC SUPPLIED)  
2. 4G LIGHTNING SUPPRESSORS/ARRESTORS FOR OUTDOOR ANTENNA INSTALLS  
3. CEILING MOUNT BRACKET (JDTACK) FOR INDOOR PANEL ANTENNA INSTALLS  
4. DIRECTIONAL (PANEL OR LOG PERIODIC STYLE) ANTENNAS (JPMC SUPPLIED)  
5. LMR-240 FLEXIBLE LOW LOSS COMMUNICATIONS COAX OR LMR-400 FLEXIBLE LOW LOSS COMMUNICATIONS COAX  
6. TNC CONNECTORS (TO ROUTER), N CONNECTORS TO ANTENNA

**9 CEILING ANTENNA MOUNTING OPTION**  
SCALE: NONE

**NEW RETAIL  
BRANCH  
PRYOR RD. AND  
LOWENSTEIN DR.**

keyplan

| issue | no         | date | issue                 | by |
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|       | 03.02.2022 |      | ISSUED FOR PERMIT/BID | KB |



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|       | 03.02.2022 |      | ISSUED FOR PERMIT/BID | KB |

site location **JP MORGAN CHASE & CO  
908 NW PRYOR RD  
LEE'S SUMMIT, MO 64081**

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| designed | KB | date  | 03.02.2022 | drawn | KB |
| checked  | CC | scale | AS NOTED   |       |    |

**TELECOM  
INSTALLATION DETAILS**

job no. **C60025810702**

sheet

**TC-402**

**NEW RETAIL  
 BRANCH  
 PRYOR RD. AND  
 LOWENSTEIN DR.**

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|    | 03.02.2022 | ISSUED FOR PERMIT/BID | KB |

site location

**JP MORGAN CHASE & CO**  
 908 NW PRYOR RD  
 LEE'S SUMMIT, MO 64081

designed KB date 03.02.2022 drawn KB

checked CC scale AS NOTED

title

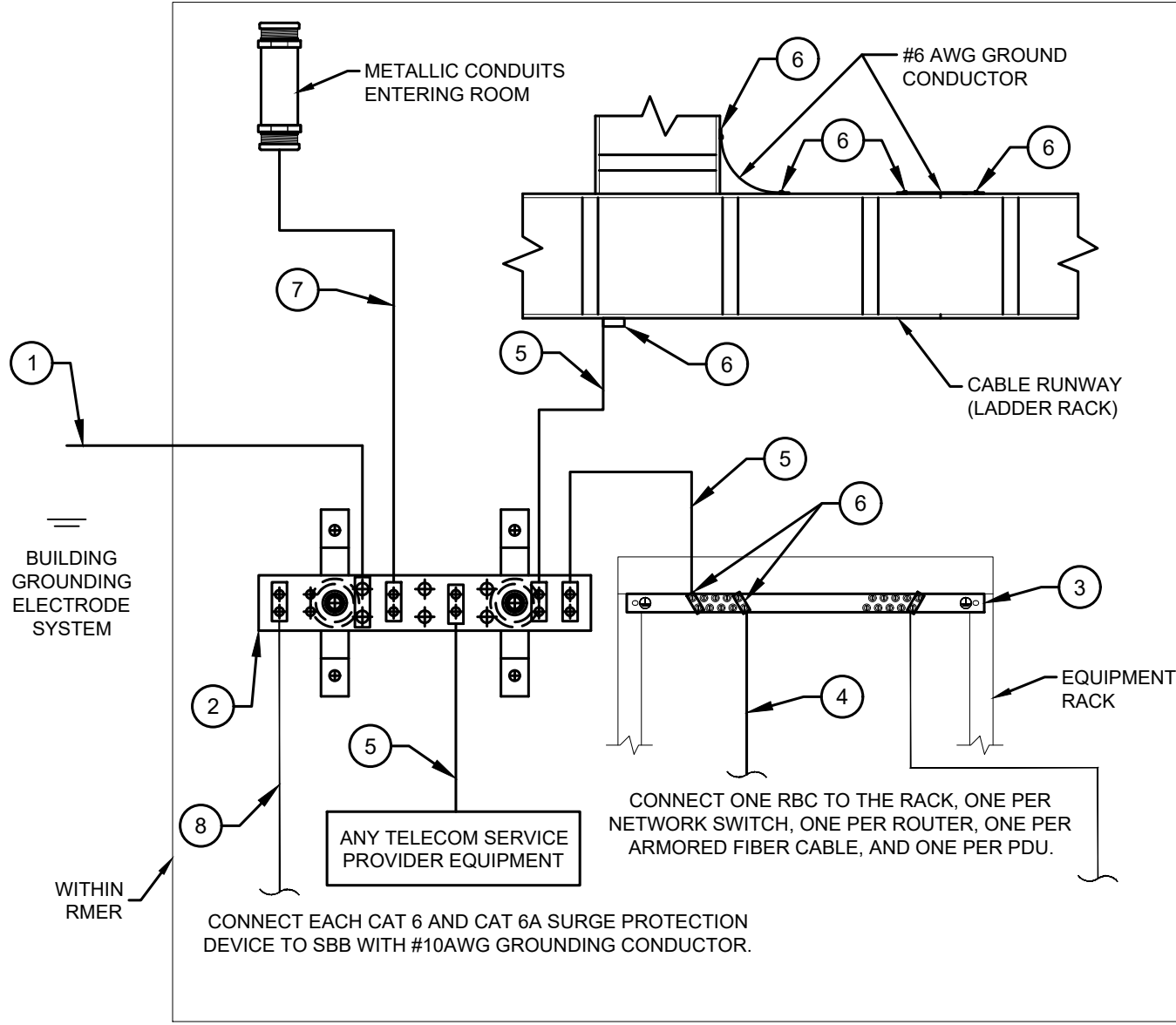
**TELECOM  
 INSTALLATION DETAILS**

job no.

C60025810702

sheet

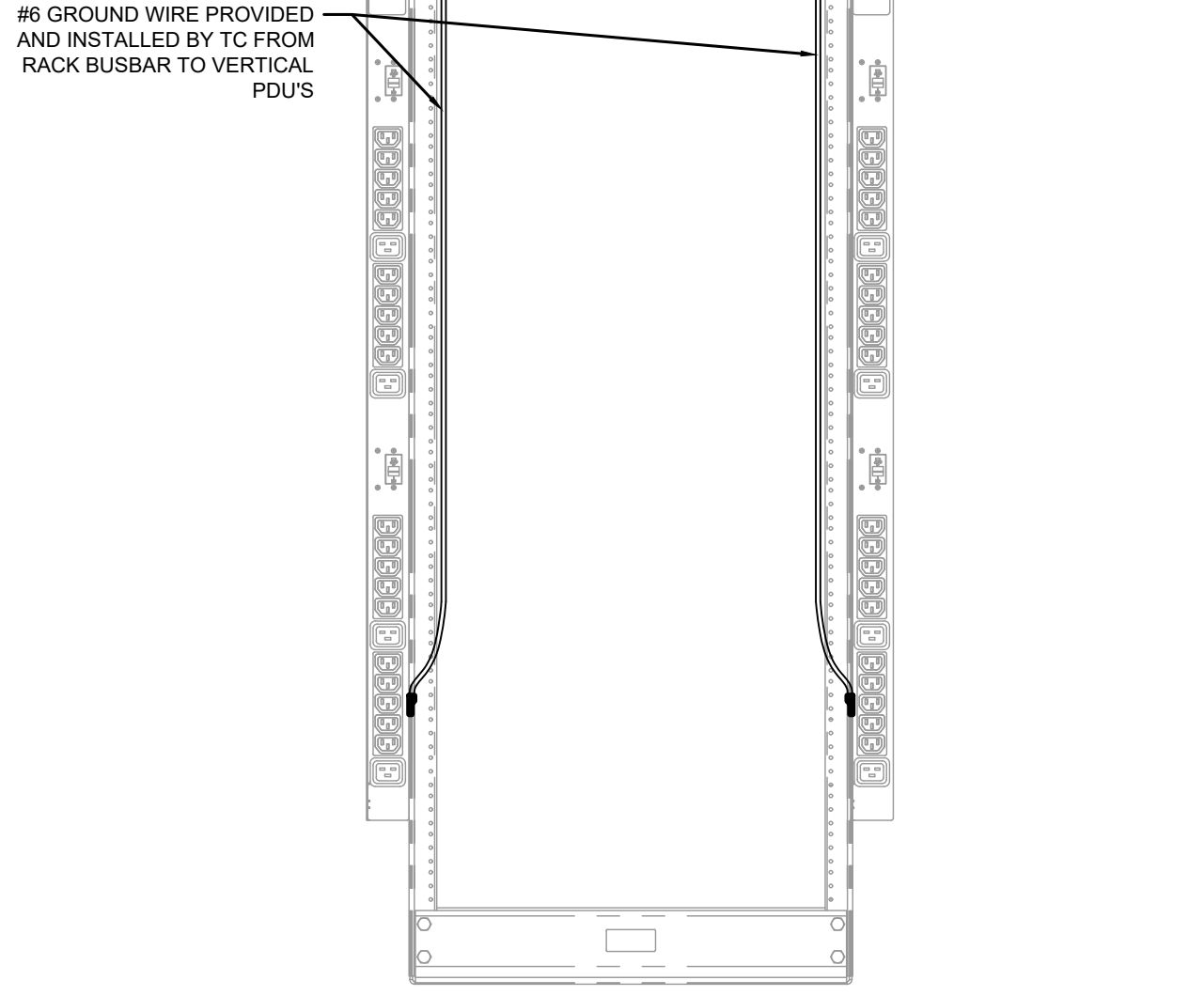
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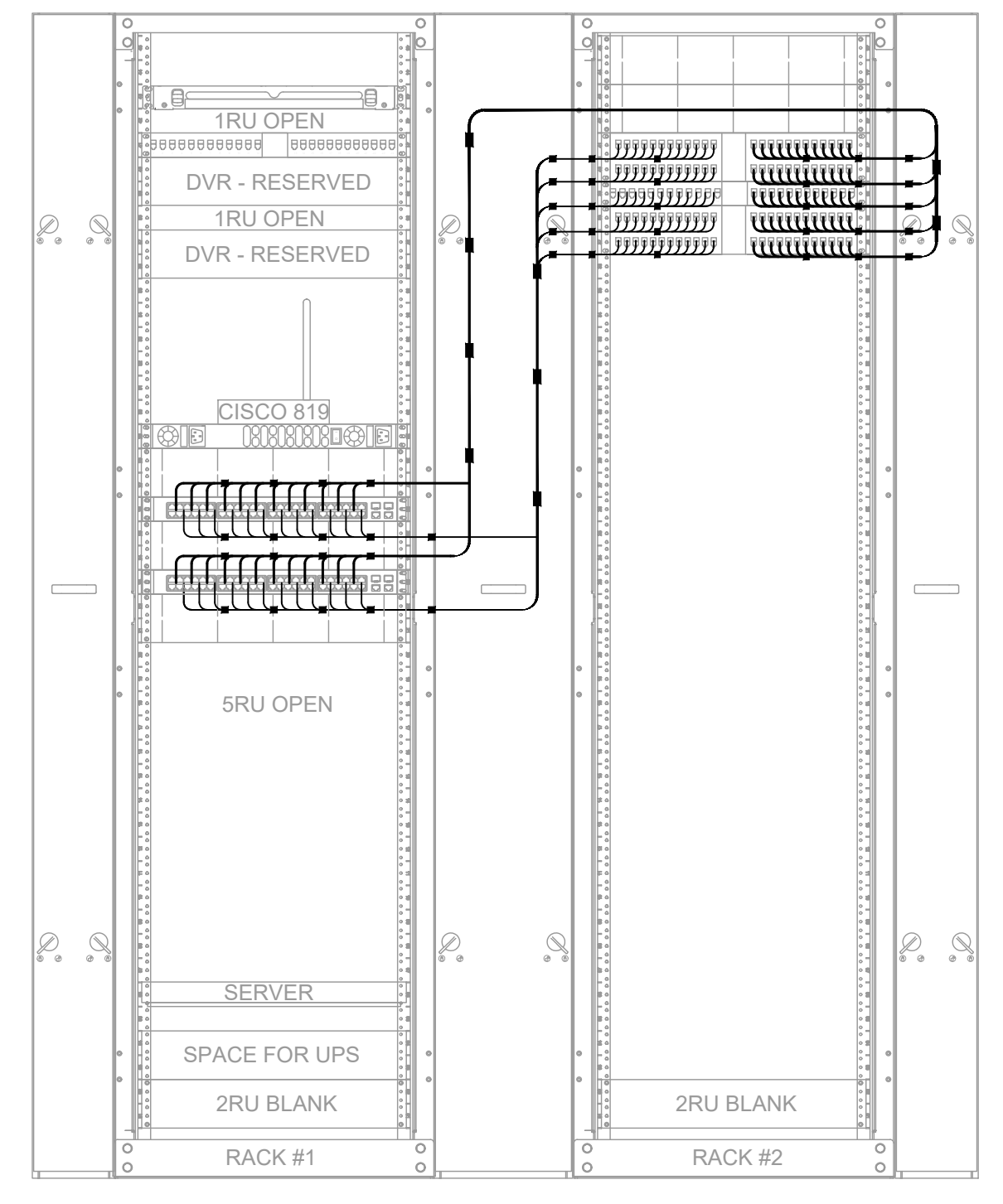
| GROUNDING COMPONENT SCHEDULE |                           |                |                       |             |
|------------------------------|---------------------------|----------------|-----------------------|-------------|
| ITEM                         | DESCRIPTION               | MANUFACTURER   | PART NUMBER           | PROVIDED BY |
| 1                            | TBC                       | N/A            | N/A                   | EC          |
| 2                            | SBB                       | PANDUIT        | GB2B0304TPI-1         | EC          |
| 3                            | RBB                       | PANDUIT        | RGRB19U               | TC          |
| 4                            | RBC                       | PANDUIT OR CPI | GJS6120U OR 40159-009 | TC          |
| 5                            | TEBC                      | PANDUIT        | GJS6180U              | TC          |
| 6                            | TWO HOLE LONG BARREL LUGS | PANDUIT        | LCC6 SERIES           | TC          |
| 7                            | TEBC                      | PANDUIT        | GJS6180U              | EC          |
| 8                            | SURGE PROTECTION BONDING  | N/A            | N/A                   | TC          |

**1 TELECOMMUNICATIONS GROUNDING SCHEMATIC**  
 SCALE: NONE

- DETAIL NOTES:**
- DEFINITIONS:**
    - TELECOMMUNICATIONS BONDING CONDUCTOR (TBC)
    - SECONDARY BONDING BUSBAR (SBB)
    - RACK BONDING BUSBAR (RBB)
    - RACK BONDING CONDUCTORS (RBC)
    - TELECOMMUNICATIONS EQUIPMENT BONDING CONDUCTOR (TEBC)
  - THE TBC SHALL BE SIZED BASED ON THE CONDUCTOR'S LENGTH. THE CONDUCTOR SHALL BE A STRANDED GROUNDING CONDUCTOR WITH A TWO (2) HOLE COPPER COMPRESSION LUG ON EACH END. PROVIDE A #6AWG FOR LENGTHS UP TO 100FT, #4AWG FOR LENGTHS GREATER THAN 100FT UP TO 200FT, #2AWG FOR LENGTHS GREATER THAN 200FT UP TO 400FT, #1AWG FOR LENGTHS GREATER THAN 400FT UP TO 500FT, #10AWG FOR LENGTHS GREATER THAN 500FT UP TO 600FT, #20AWG FOR LENGTHS GREATER THAN 600FT UP TO 700FT, #30AWG FOR LENGTHS GREATER THAN 700FT UP TO 800FT, AND #40AWG FOR LENGTHS GREATER THAN 800FT.
  - THE TEBC & THE RBC SHALL BE A MINIMUM OF A #6-AWG STRANDED GROUNDING CONDUCTOR AND A TWO (2) HOLE COPPER COMPRESSION LUG ON EACH END.
  - THE CONTRACTOR IS RESPONSIBLE FOR BONDING SECTIONS OF CABLE TRAY TOGETHER UTILIZING #6-AWG GROUNDING (EARTHING) STRAPS, THEN INSTALLING A #6-AWG GROUNDING (EARTHING) CONDUCTOR BETWEEN THE TRAY AND THE SBB THAT HAS BEEN INSTALLED IN THE ROOM.
  - IF GROUNDING (EARTHING) MUST BE APPLIED TO A LOCATION WHERE BARE METAL IS NOT EXPOSED, THE COVERING (E.G. PAINT) SHALL BE FULLY REMOVED TO EXPOSE BARE METAL AND FACILITATE BONDING. AT EACH SUCH BONDING POINT, NO GREATER THAN 12MM (.5IN) AND NO LESS THAN 6MM (.25IN) OF EXPOSED METAL SHALL REMAIN AFTER BONDING IS COMPLETED.
  - AFTER BOND HAS BEEN MADE, TC SHALL APPLY ANTI-OXIDANT JOINT COMPOUND OVER ANY AREA THAT BARE METAL IS EXPOSED BECAUSE OF SCRAPING.
  - RACK BONDING BUSBARS (RBB) SHALL BE INSTALLED IN EACH RACK TO GROUND (EARTH) MULTIPLE PIECES OF EQUIPMENT OR PATCH PANELS FOR SHIELDED CABLING. THE RBB MUST BE BONDED TO THE RACK. THEN TELECOMMUNICATIONS EQUIPMENT BONDING CONDUCTORS (TEBC) CONNECT THE RBB ON EACH RACK, TO THE SBB IN THE ROOM.
  - THE T.C. IS RESPONSIBLE FOR FURNISHING AND INSTALLING A RACK BONDING BUSBAR (RBB) AT ALL NEW EQUIPMENT RACKS AND CABINETS PER DESIGN DOCUMENTS. EACH RBB SHALL BE BONDED TO THE SBB THAT HAS BEEN INSTALLED IN THE ROOM.
  - DAISY CHAIN FROM ONE RBB TO NEXT RBB NOT PERMITTED.
  - A #6-AWG CONDUCTOR SHALL BE BONDED TO EACH RBB, THEN COILED AND STORED NEATLY AT EACH RACK FOR FUTURE USE.
  - WHERE ARMORED CABLE IS DEPLOYED, IT SHALL BE BONDED TO GROUND (EARTH) AT ONE END IN ACCORDANCE WITH AHJ AND IN ACCORDANCE WITH THE MANUFACTURER'S GUIDELINES.
  - MATERIALS SHALL BE AS LISTED OR SHALL BE EQUIVALENT PRODUCTS OF OTHER MANUFACTURERS MEETING THE INTENT AND QUALITY LEVEL OF THIS SPECIFICATION. MATERIALS MUST BE COMPATIBLE WITH THE END TO END SOLUTION BEING PROPOSED. PROPOSALS FOR EQUIVALENT PRODUCTS MUST BE PRESENTED TO THE OPR BY RFIS, SUBMITTALS, AND/OR SHOP DRAWINGS. OPR WRITTEN APPROVAL IS REQUIRED BEFORE ANY SUBSTITUTIONS ARE MADE.
  - PROVIDE BONDING OF ALL METAL CONDUITS ENTERING THE ROOM. PROVIDE GROUNDING BUSHING AS REQUIRED FOR CONNECTION.

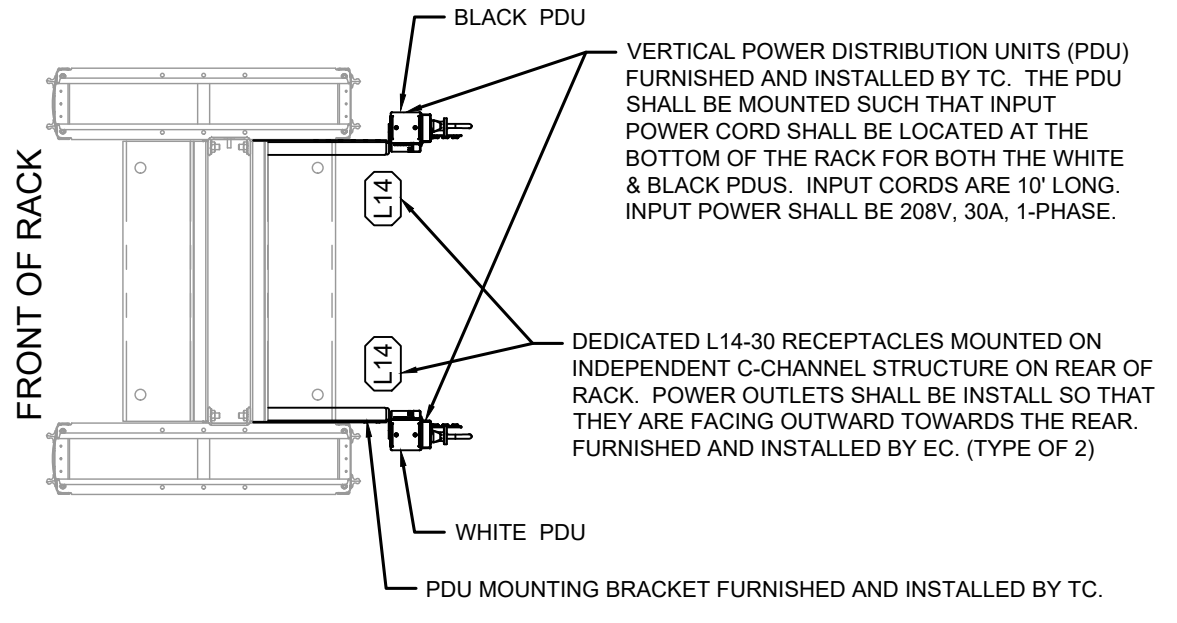


**2 TYPICAL EQUIPMENT GROUNDING DETAIL**  
 SCALE: NONE

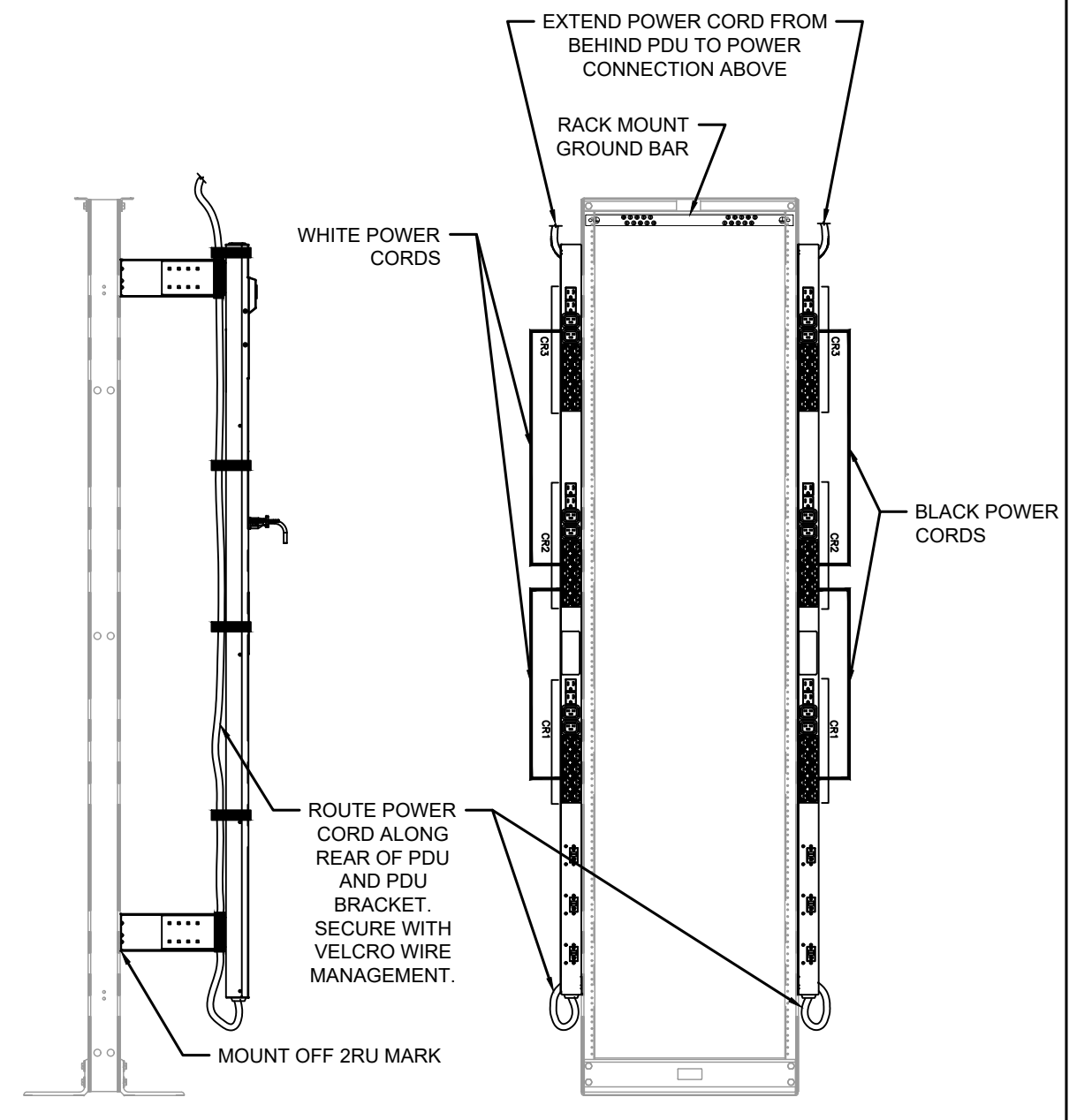


- GENERAL PATCH CORD DRESSING NOTES:**
- PATCH QUANTITIES SHALL BE CONFIRMED PRIOR TO ORDERING.
  - DETERMINATION OF PATCH CORD LENGTHS IS THE RESPONSIBILITY OF THE LOW VOLTAGE CONTRACTOR.
  - PATCH CORDS SHALL BE INSTALLED WITH MINIMAL SLACK.
  - PATCHING OF WIRELESS ACCESS POINTS AND SECURITY (CCTV) CAMERAS SHALL BE EVENLY DISTRIBUTED ON THE SWITCHES.
  - PATCH CORDS SHALL BE BUNDLED WITH VELCRO WITHIN VERTICAL WIRE MANAGERS.
  - PATCH CORDS SHALL BE BUNDLED WITH VELCRO FOR EACH SWITCH.
  - PATCH CORDS SHALL BE TIED BACK WITHIN VERTICAL WIRE MANAGERS.
  - ELEVATION SHOULD NOT BE USED FOR LENGTH TAKE OFF.
  - ELEVATION DOES NOT REPRESENT ACTUAL FIELD CONDITION AND SHOULD BE USED FOR REFERENCE INTENT ONLY.

**3 TYPICAL PATCH CORD DRESSING**  
 SCALE: NONE



NOTE: SEE THE RACK EQUIPMENT SCHEDULE ON THE ENLARGED MER/TR PLANS FOR PDU AND PDU MOUNTING BRACKET PART NUMBERS.

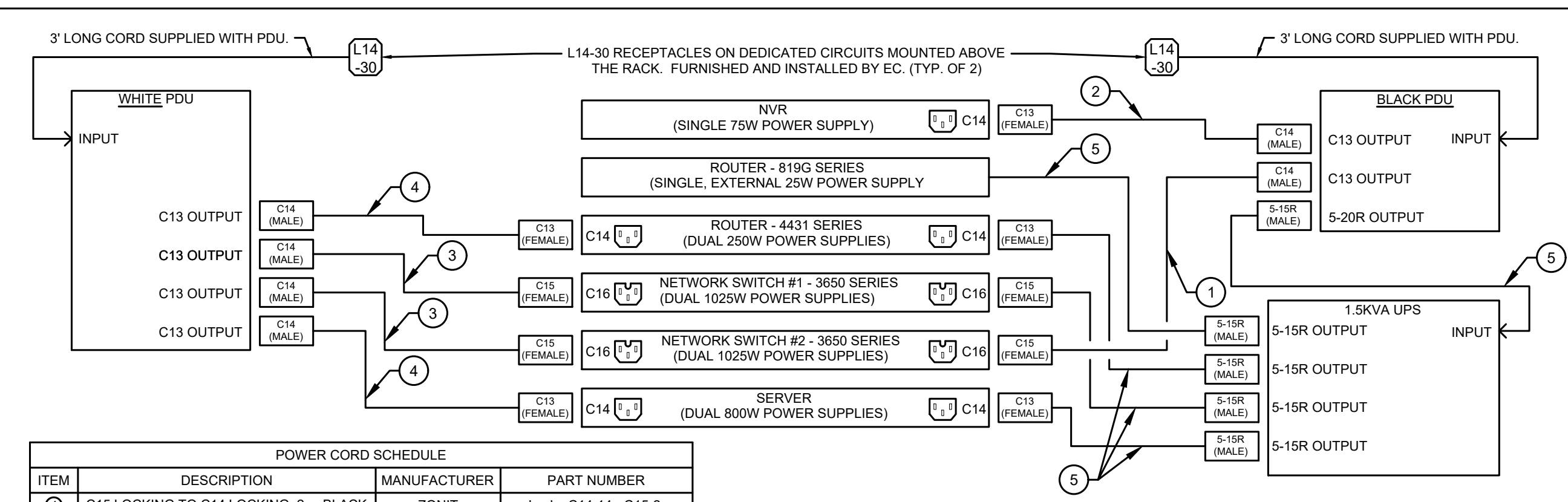


**SIDE VIEW OF RACK REAR VIEW OF RACK**

- BRANCH CIRCUIT DISTRIBUTION:**
- REDUNDANT AND DIVERSELY FED A/B CIRCUITS TO RACKS IN DISCRETE CONDUITS (A & B CIRCUITS CANNOT SHARE A CONDUIT).
  - LOWEST ACCEPTABLE LEVEL OF REDUNDANCY IS TWO CIRCUITS DIVERSELY ROUTED FROM A COMMON BREAKER PANEL, BUT UPS REDUNDANCY SHOULD BE PROVIDED IF AVAILABLE.
  - CIRCUITS MUST BE DEDICATED INCLUDING DEDICATED NEUTRAL AND EQUIPMENT GROUNDING CONDUCTOR (EGC).
  - NO ISOLATED GROUND (IG) CIRCUITS UNLESS REQUIRED FOR SPECIFIC EQUIPMENT.
  - PROTECTED BY TRANSIENT VOLTAGE SURGE SUPPRESSION (TVSS) DEVICE AT BREAKER PANEL SERVING THE TELECOM ROOM.
  - TC SHALL PROVIDE JPMC STANDARD BLACK AND WHITE POWER CORDS FOR NETWORK EQUIPMENT.

- PDU MOUNTING NOTES:**
- TC SHALL MOUNT BRACKET TO THE INSIDE FACE OF THE REAR RAIL OF THE RACK.
  - TC SHALL MOUNT PDU TO BRACKET SO OUTLETS ARE FACING OUTSIDE THE RACK.
  - PLUG STRIP OUTLETS MUST BE FREE & CLEAR AND EASILY ACCESSIBLE.
  - TC SHALL PROVIDE A LABEL ON EACH PDU INDICATING THE ELECTRICAL CIRCUIT DESIGNATION. ON THE WHITE PDU, THE LABEL BACKGROUND SHALL BE WHITE WITH BLACK TEXT. ON THE BLACK PDU, THE LABEL BACKGROUND SHALL BE BLACK WITH WHITE TEXT.
  - TC SHALL GROUND THE PDU TO THE RACK-MOUNTED GROUND BAR.
  - POWER CORD OF PDU IS TO BE MOUNTED SO IT IS AT THE BOTTOM OF THE PDU. THE CORD SHOULD BE NEATLY ROUTED ALONG THE REAR OF THE PDU AND SECURED WITH VELCRO TIES ROUTED TO THE TOP OF THE PDU AND THEN EXTENDED TO THE POWER CONNECTION.

**2-POST PDU MOUNTING DETAILS**  
 SCALE: NONE



| POWER CORD SCHEDULE |                                       |              |                          |
|---------------------|---------------------------------------|--------------|--------------------------|
| ITEM                | DESCRIPTION                           | MANUFACTURER | PART NUMBER              |
| 1                   | C15 LOCKING TO C14 LOCKING, 2m, BLACK | ZONIT        | zLock-zC14-14-aC15-2m    |
| 2                   | C13 LOCKING TO C14 LOCKING, 2m, BLACK | ZONIT        | zLock-zC14-14-aC13-2m    |
| 3                   | C15 LOCKING TO C14 LOCKING, 2m, WHITE | ZONIT        | zLock-zC14-14-aC15-2m-WH |
| 4                   | C13 LOCKING TO C14 LOCKING, 2m, WHITE | ZONIT        | zLock-zC14-14-aC13-2m-WH |
| 5                   | CORD PROVIDED WITH EQUIPMENT          | N/A          | N/A                      |

NOTE: THE "2m" WITHIN THE PART NUMBER INDICATES LENGTH. THE LENGTH ORDERED BY THE IMPLEMENTATION TEAM MAY VARY BY PROJECT BASED ON PRODUCT AVAILABILITY.

**4 EQUIPMENT POWER CONNECTIONS SCHEMATIC**  
 SCALE: NONE

**NEW RETAIL  
 BRANCH  
 PRYOR RD. AND  
 LOWENSTEIN DR.**

keyplan  
 seal



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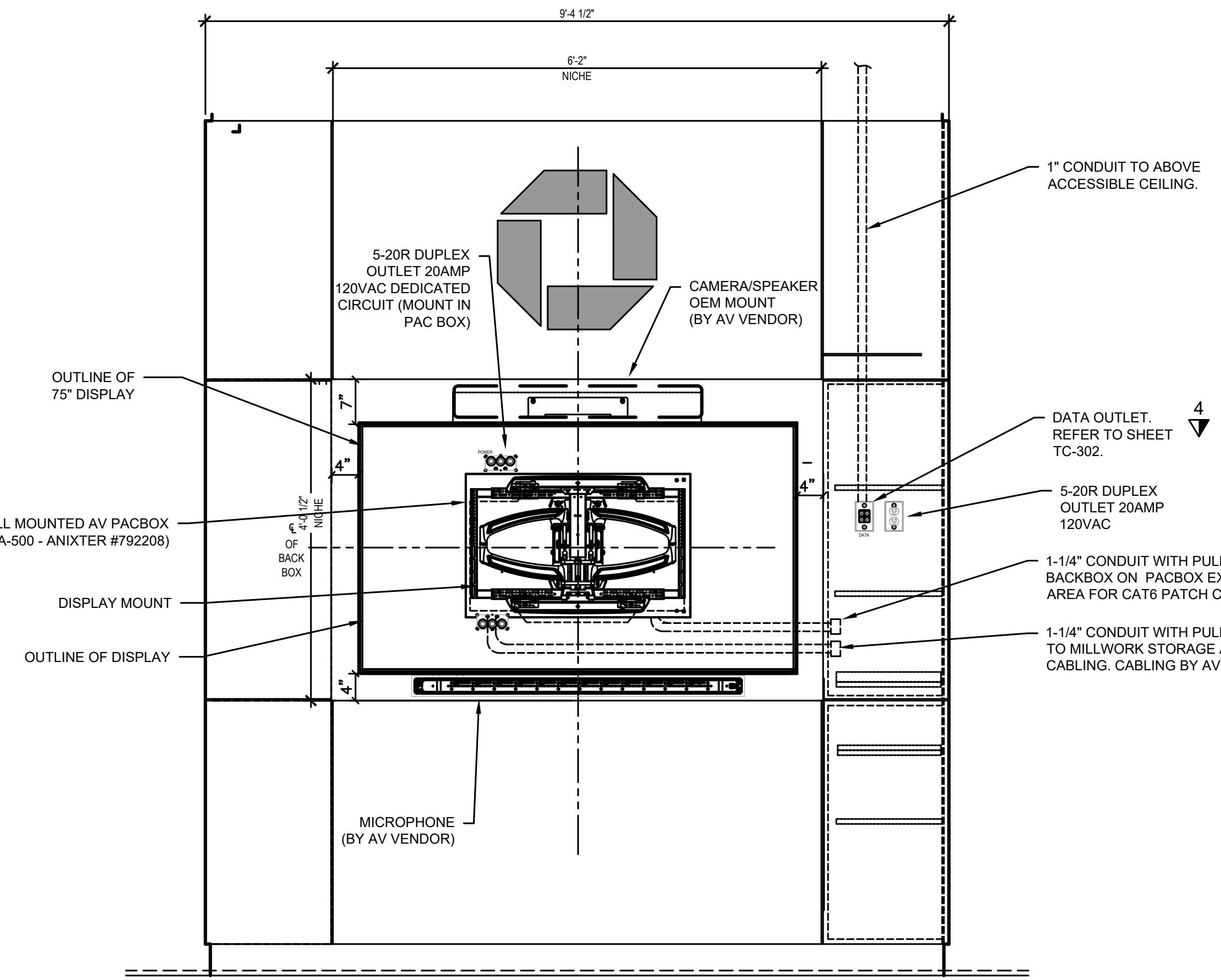
site location **JP MORGAN CHASE & CO**  
 908 NW PRYOR RD  
 LEE'S SUMMIT, MO 64081

designed KB date 03.02.2022 drawn KB  
 checked CC scale AS NOTED

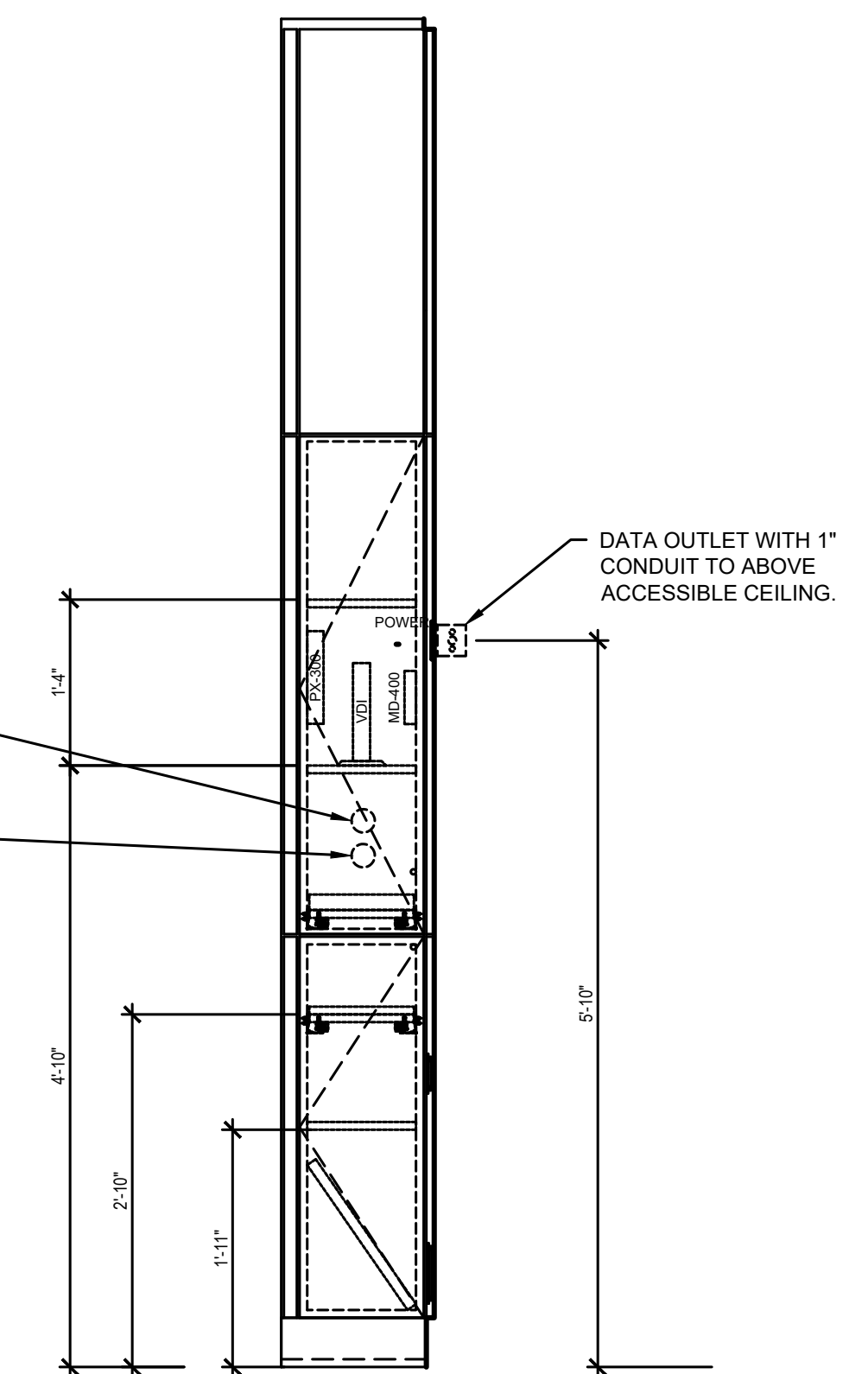
**AV SOLUTION #3  
 75" DISPLAY  
 CUSTOM MILLWORK**

job no. C60025810702

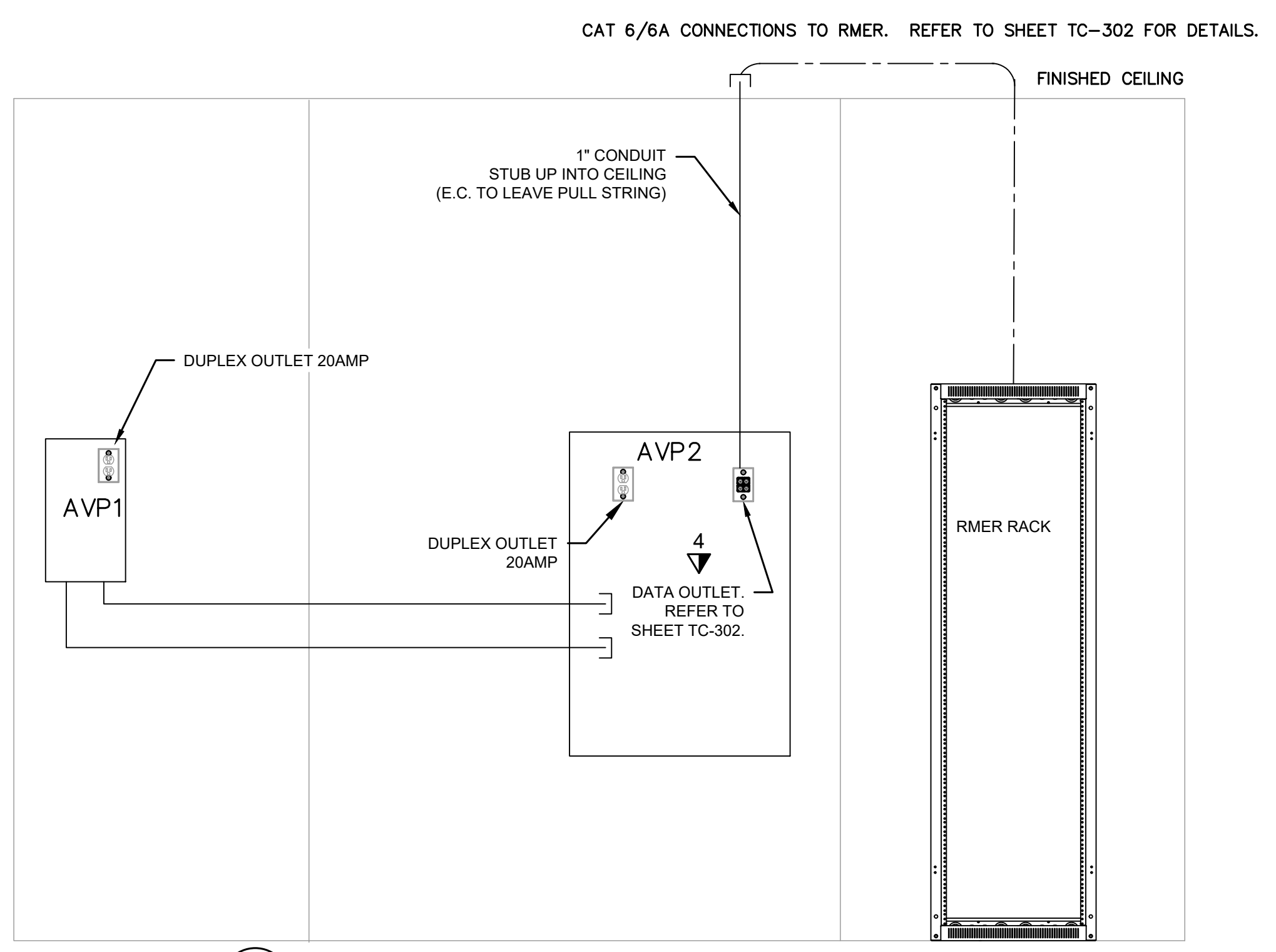
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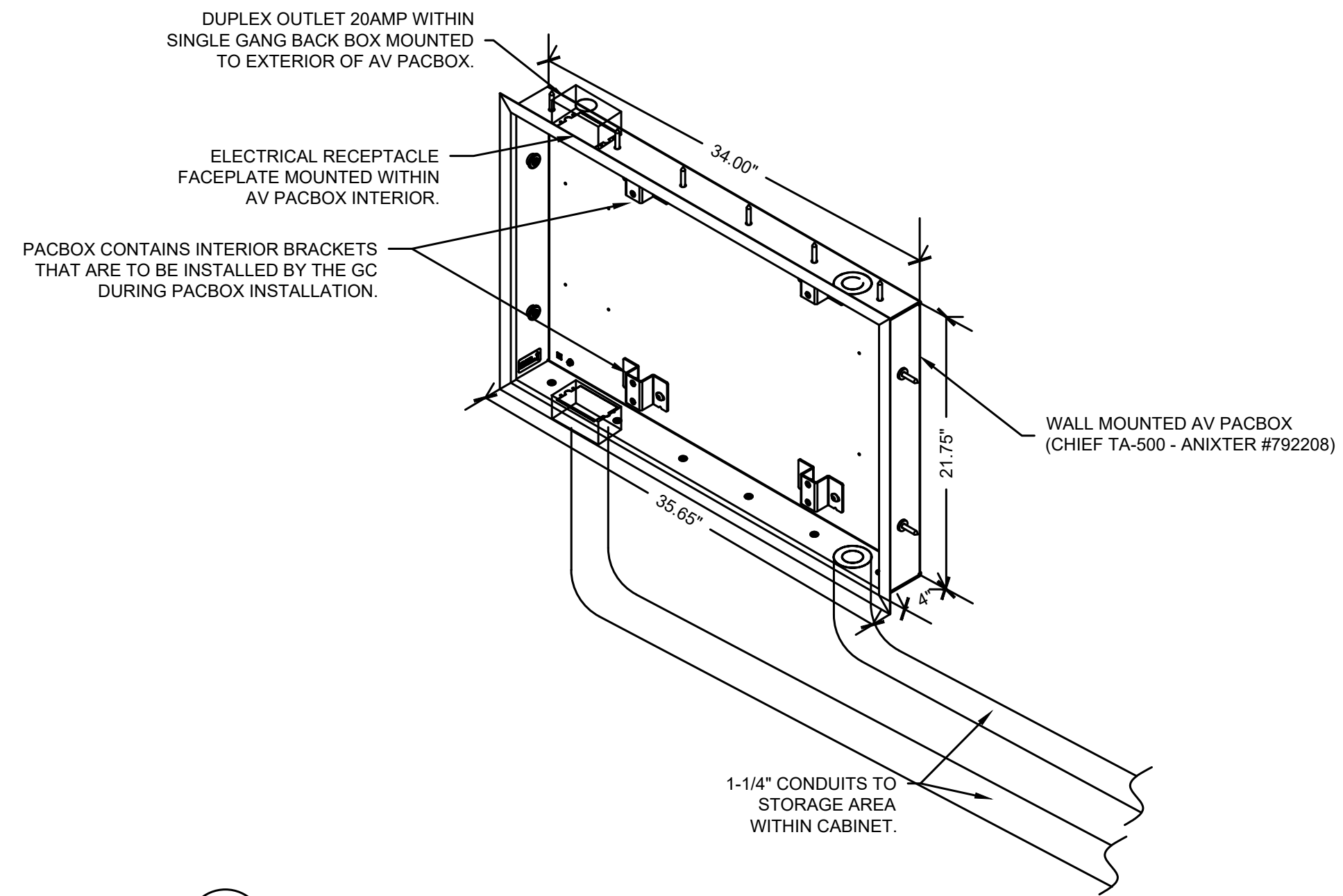
**A AUDIOVISUAL 75" DISPLAY MOUNTING ELEVATION**  
 SCALE: 3/4"=1'-0" SOLUTION 3



**B AUDIOVISUAL 75" DISPLAY WALL SECTIONS**  
 SCALE: 3/4"=1'-0" SOLUTION 3



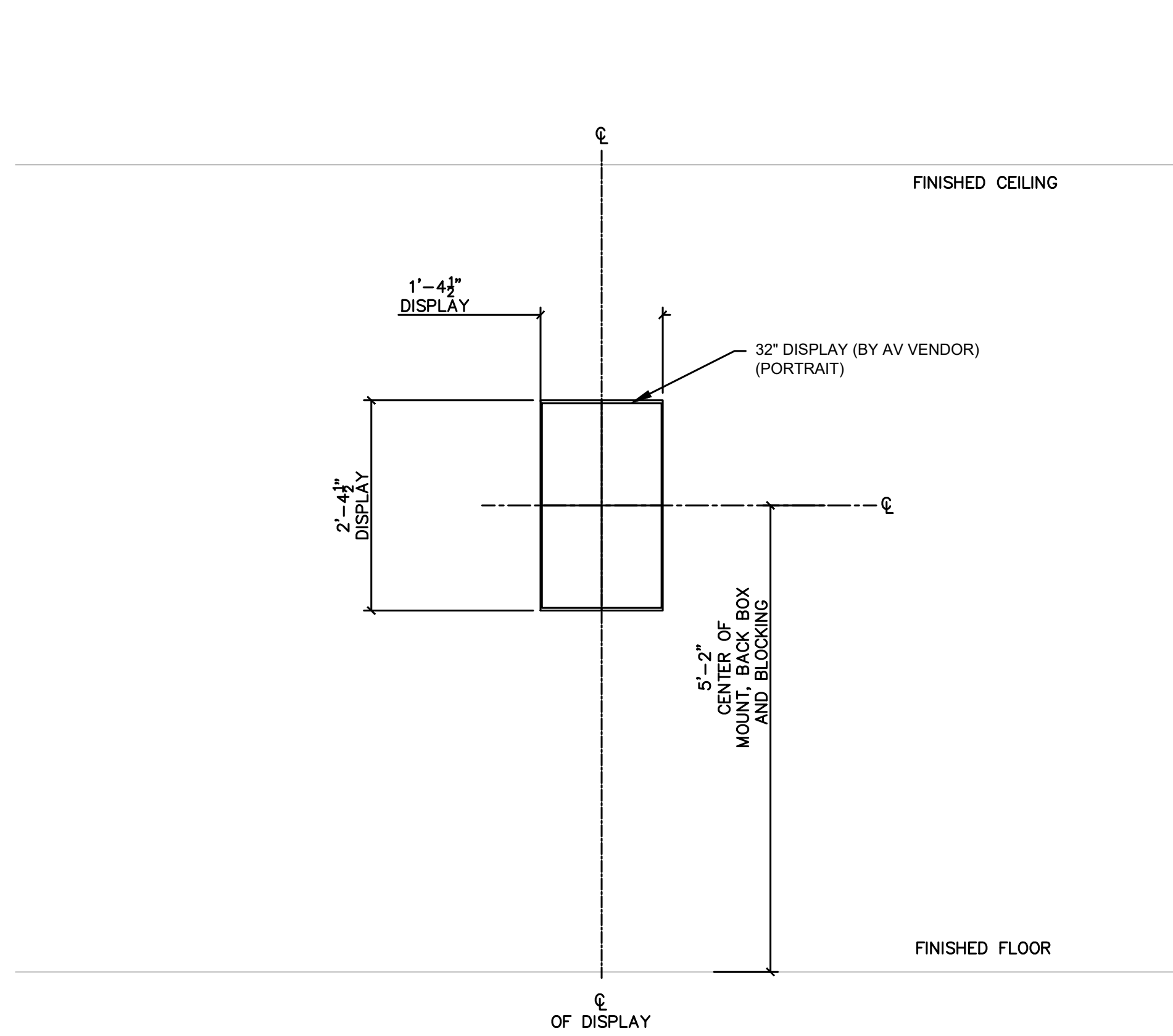
**C AUDIOVISUAL CONDUIT RISER DIAGRAM**  
 SCALE: NTS SOLUTION 3



**D AV PACBOX DETAIL**  
 SCALE: 3/4"=1'-0" SOLUTION 3

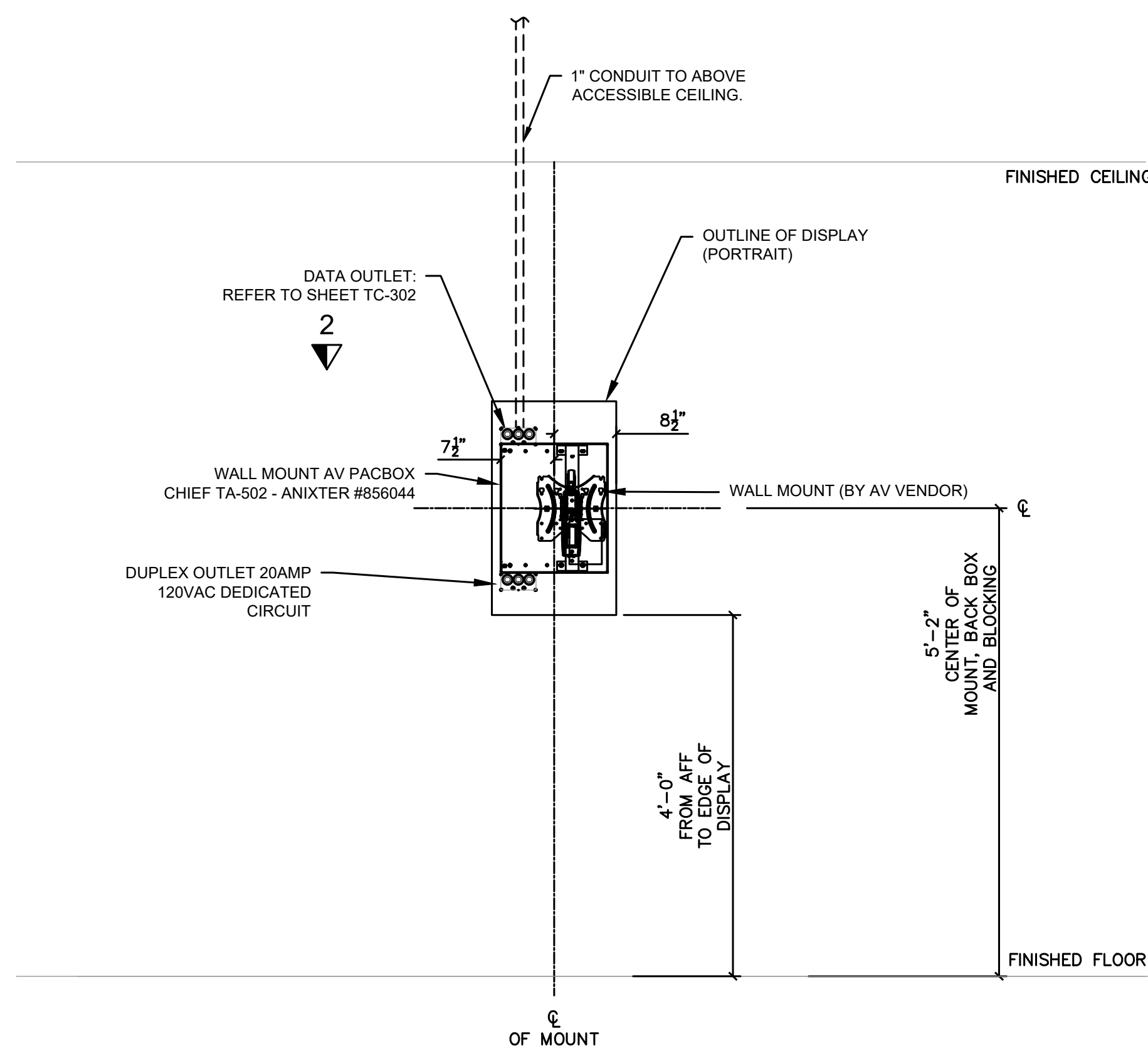
| DEVICE NAME | WEIGHT (LBS) |
|-------------|--------------|
| 32" DISPLAY | 10.70        |
| WALL MOUNT  | 3.00         |
| TOTAL       | 13.70        |

**NEW RETAIL  
 BRANCH  
 PRYOR RD. AND  
 LOWENSTEIN DR.**



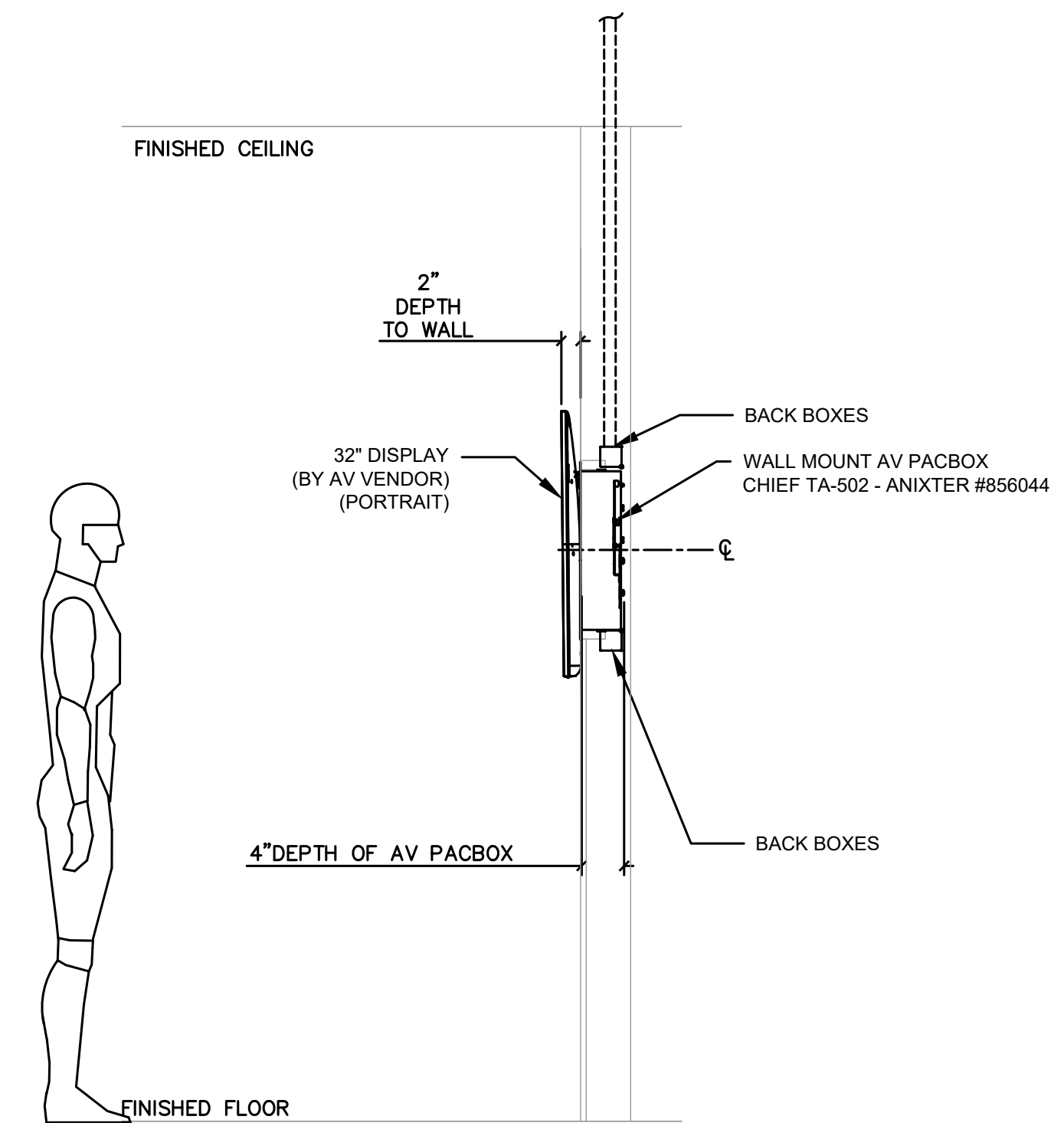
NOTE:  
 - COORDINATE EXACT LOCATION OF CENTERLINE OF MOUNT WITH ARCHITECT AND ARCHITECTURAL ELEVATION PRIOR TO ROUGH-IN.

**A AUDIOVISUAL 32" DISPLAY ELEVATION**  
 SCALE: 3/4"=1'-0" SOLUTION 7

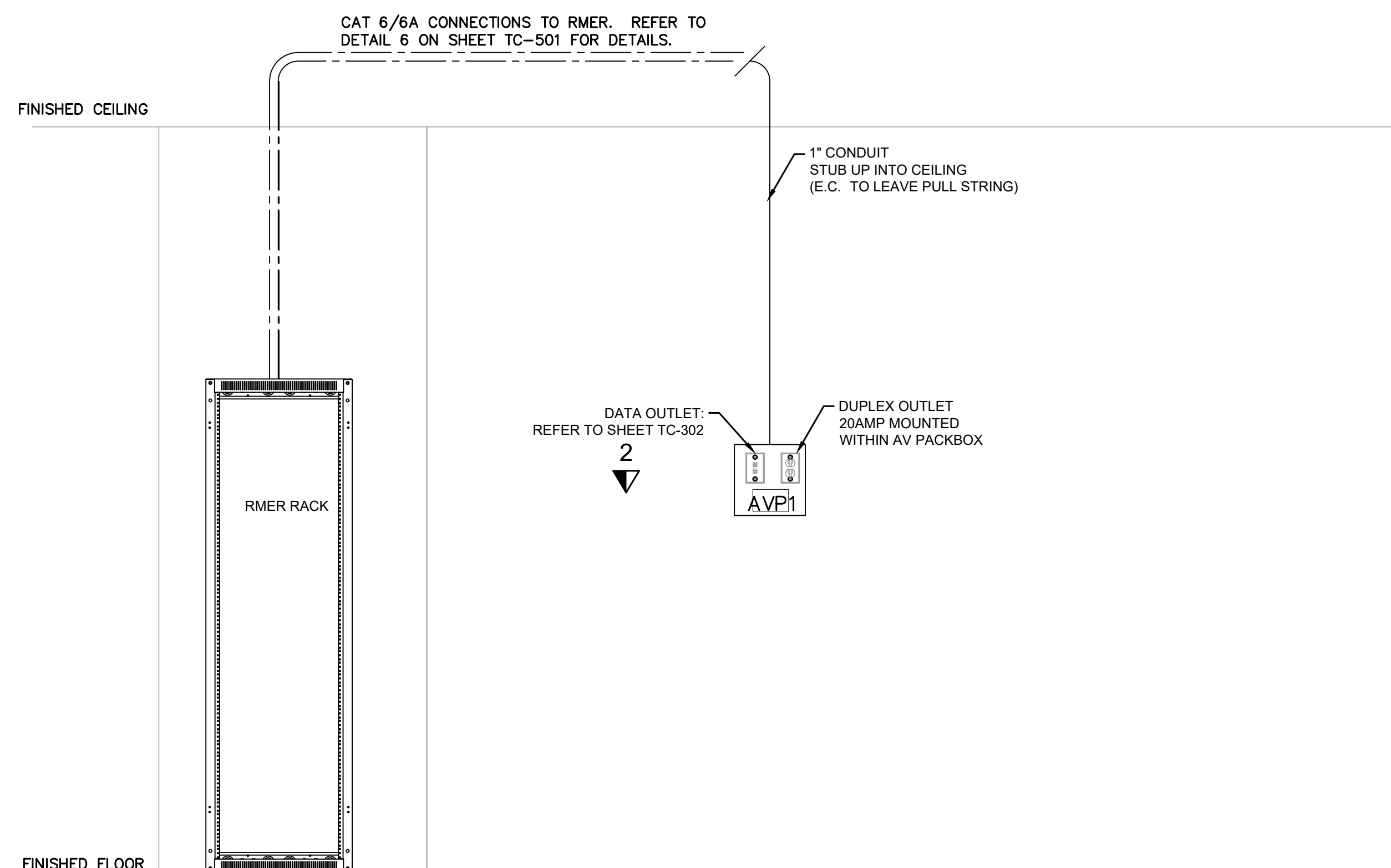


NOTE:  
 - COORDINATE EXACT LOCATION OF CENTERLINE OF MOUNT WITH ARCHITECT AND ARCHITECTURAL ELEVATION PRIOR TO ROUGH-IN.

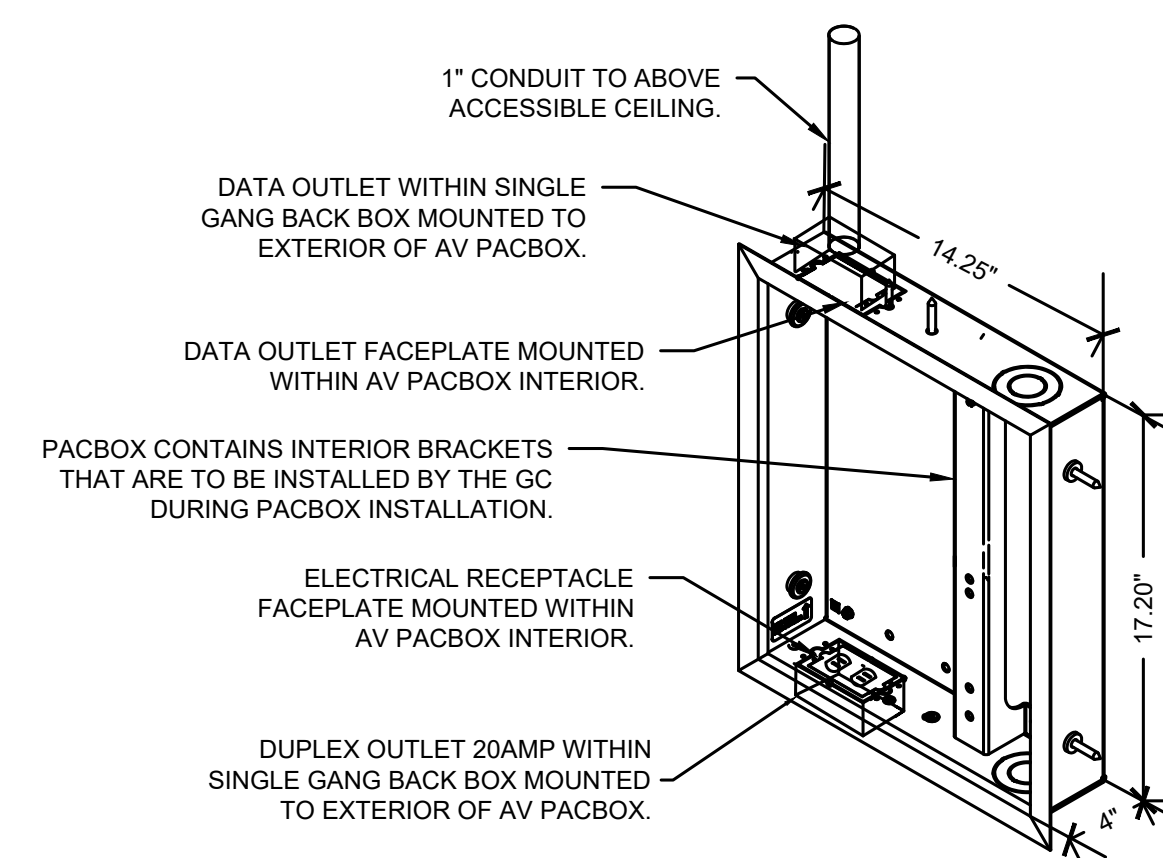
**B AUDIOVISUAL 32" DISPLAY MOUNTING ELEVATION**  
 SCALE: 3/4"=1'-0" SOLUTION 7



**C AUDIOVISUAL 32" WALL SECTION**  
 SCALE: 3/4"=1'-0" SOLUTION 7



**D AUDIOVISUAL CONDUIT RISER DIAGRAM**  
 SCALE: NTS SOLUTION 7

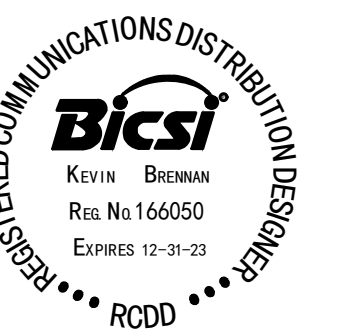


**D AV PACBOX DETAIL**  
 SCALE: 3/4"=1'-0" SOLUTION 7

| INSTALLATION REQUIREMENTS FROM SURVEY |                    |                    |       |
|---------------------------------------|--------------------|--------------------|-------|
| MEASUREMENT                           | REQUIRED DIMENSION | MEASURED DIMENSION | NOTES |
| CORPORATE DATA                        | 2                  |                    |       |
| AV STRUCTURED CABLE QTY.              | 0                  |                    |       |
| POWER                                 | DUPLEX 20A 120V    |                    |       |

keyplan

seal



issue

| no | date       | issue                 | by |
|----|------------|-----------------------|----|
|    | 03.02.2022 | ISSUED FOR PERMIT/BID | KB |

site location  
**JP MORGAN CHASE & CO  
 908 NW PRYOR RD  
 LEE'S SUMMIT, MO 64081**

designed KB date 03.02.2022 drawn KB  
 checked CC scale AS NOTED

title  
**AV SOLUTION #7  
 32" DISPLAY  
 SURFACE MOUNTED**

job no.  
 C60025810702

sheet  
**TC-502**



**NEW RETAIL  
 BRANCH  
 PRYOR RD. AND  
 LOWENSTEIN DR.**

keyplan

seal



issue

| no | date       | issue                 | by |
|----|------------|-----------------------|----|
|    | 03.02.2022 | ISSUED FOR PERMIT/BID | KB |
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site location **JP MORGAN CHASE & CO  
 908 NW PRYOR RD  
 LEE'S SUMMIT, MO 64081**

designed KB date 03.02.2022 drawn KB  
 checked CC scale AS NOTED

**ROOM READY  
 & PRODUCTION READY  
 CHECKLISTS**

job no. C60025810702

sheet

**TC-602**

**Definition and Checklist for RMER & RTR Room Acceptance  
 Stage 1 of 2: Room Ready**

Address: \_\_\_\_\_ Room Name/Number: \_\_\_\_\_  
 City: \_\_\_\_\_ Floor: \_\_\_\_\_  
 State: \_\_\_\_\_ Punch List Date: \_\_\_\_\_  
 Property ID: \_\_\_\_\_ Punch List Complete Date: \_\_\_\_\_  
 GTI - Implementation PM: \_\_\_\_\_ Acceptance Walkthrough: \_\_\_\_\_  
 WDCS Rep: \_\_\_\_\_ RRE PM Rep: \_\_\_\_\_  
 (First name, Last Name, SID) (First name, Last Name, SID)

| General Construction |                        | Approval Initials   |                           |   |  |
|----------------------|------------------------|---|---------------------------|---|--|
| Scheduled Date       | Verified Complete Date | Inspection Item Description   | Exceptions: SNOW SCTASK # | WDCS (Retail SCE / RSD / OTI Implementation PM) | RRE (JPMC Retail Estate, JLL or CBRE PM) |
|                      |                        | Walls completed with final painting and built deck to deck.   |                           |   |  |
|                      |                        | Walls are built with 5/8" Type X gypsum drywall board from the floor to the underside of the deck or greater if local code is more stringent.             |                           |   |  |
|                      |                        | Permanent door and hardware installed. This should include the automatic closer and door sweep. Temporary lock core is acceptable.                        |                           |   |  |
|                      |                        | Ceiling has been encapsulated to prevent firestopping from flaking and creating dust in the room.   |                           |   |  |
|                      |                        | Plywood backboards have been installed and painted with fire retardant paint and 1 fire-rating certification stamp is left unpainted.                     |                           |   |  |
|                      |                        | Sealed concrete flooring is completely installed. Architect shall define the seal type (acrylic, epoxy, polyurethane, or siloxane) sealer.                |                           |   |  |
|                      |                        | RMER/RTR is vacuumed, broom swept, and cleaned to a level that is adequate to safely maintain space for pulling and terminating copper and fiber cabling. |                           |   |  |
|                      |                        | Any openings or penetrations through walls have been sealed with firestop.  |                           |   |  |

| Mechanical/Electrical/Plumbing |                        | Approval Initials   |                           |   |  |
|--------------------------------|------------------------|---|---------------------------|---|--|
| Scheduled Date                 | Verified Complete Date | Inspection Item Description   | Exceptions: SNOW SCTASK # | WDCS (Retail SCE / RSD / OTI Implementation PM) | RRE (JPMC Retail Estate, JLL or CBRE PM) |
|                                |                        | Electrical distribution on permanent power.   |                           |   |  |
|                                |                        | Power receptacles should be mounted above racks on an independent C-channel (unistrut). Provide dedicated circuits with dedicated neutral and equipment grounding conductor (EGC). No Isolated Ground (IG) circuits unless required for specific equipment. |                           |   |  |
|                                |                        | All power outlets have been installed, energized, tested, & labeled. Power receptacles shall be labeled with panel ID and circuit #.  |                           |   |  |
|                                |                        | Permanent lighting and switches installed. Lighting located in aisle ways and coordinated with rack and/or cabinet layout.  |                           |   |  |
|                                |                        | Wall mounted grounding bus bar inside RMER/RTR has been installed and connected to the building grounding system.   |                           |   |  |
|                                |                        | Fire alarm/smoke detection devices (if required for project) are installed and wired, in the RMER/RTR.  |                           |   |  |
|                                |                        | All conduits & sleeves have been completely installed, grounded & labeled in compliance with Retail Structured Cabling standard.  |                           |   |  |
|                                |                        | Backboxes have been roughed-in for Access Control, IP-CCTV & Intrusion Detection systems; inclusive of panels and power.  |                           |   |  |
|                                |                        | Cages over sprinkler heads installed.   |                           |   |  |
|                                |                        | Dedicated cooling unit has been installed, including leak detection, pipes, valves, drip pans, ductwork, condensate piping, and drains. Cooling unit designed to maintain ASHRAE standard for temperature and humidity.                                     |                           |   |  |
|                                |                        | All duct work & diffuser installations have been completed & fire dampers installed where required to maintain fire rating of room.   |                           |   |  |
|                                |                        | BMS devices installed and wired to equipment (if required).   |                           |   |  |
|                                |                        | Piping at cooling units hydrostatically pressure tested throughout.   |                           |   |  |
|                                |                        | Cooling units fully commissioned and operational 24 x 7.  |                           |   |  |
|                                |                        | Security camera locations have the pathways roughed-in (if required) and cabling installed.   |                           |   |  |

| Technology - Structured Cabling |                        | Approval Initials  |                           |   |  |
|---------------------------------|------------------------|--|---------------------------|---|--|
| Scheduled Date                  | Verified Complete Date | Inspection Item Description  | Exceptions: SNOW SCTASK # | WDCS (Retail SCE / RSD / OTI Implementation PM) | RRE (JPMC Retail Estate, JLL or CBRE PM) |
|                                 |                        | Racks have been bolted to the floor in their final position and cable managers have been installed per the TC drawings (enlarged RMER/RTR floor plan and rack elevations). Seismic bracing installed on racks if required. All clearances within the RMER/RTR as per drawings have been validated. |                           |   |  |
|                                 |                        | Pathways outside the RMER/RTR are installed including; J-hooks, sleeves, and any conduit pathways.   |                           |   |  |
|                                 |                        | Ladder rack within the room has been installed.  |                           |   |  |
|                                 |                        | Carrier cabling is pulled into room, terminated, tested, and labeled. (If applicable).   |                           |   |  |

**Acceptance Sign-Off**

WDCS: \_\_\_\_\_ Date: \_\_\_\_\_  
 (first and last name of approver)

RRE: \_\_\_\_\_ Date: \_\_\_\_\_  
 (first and last name of approver)

- Comments**
- Note 1 \_\_\_\_\_  
 Note 2 \_\_\_\_\_  
 Note 3 \_\_\_\_\_  
 Note 4 \_\_\_\_\_  
 Note 5 \_\_\_\_\_  
 Note 6 \_\_\_\_\_  
 Note 7 \_\_\_\_\_  
 Note 8 \_\_\_\_\_  
 Note 9 \_\_\_\_\_  
 Note 10 \_\_\_\_\_

**Definition and Checklist for RMER & RTR Room Acceptance  
 Stage 2 of 2: Production Ready**

Address: \_\_\_\_\_ Room Name/Number: \_\_\_\_\_  
 City: \_\_\_\_\_ Floor: \_\_\_\_\_  
 State: \_\_\_\_\_ Punch List Date: \_\_\_\_\_  
 Property ID: \_\_\_\_\_ Punch List Complete Date: \_\_\_\_\_  
 GTI - Implementation PM: \_\_\_\_\_ Acceptance Walkthrough: \_\_\_\_\_  
 WDCS Rep: \_\_\_\_\_ RRE PM Rep: \_\_\_\_\_  
 (First name, Last Name, SID) (First name, Last Name, SID)

| General Construction |                        | Approval Initials                                       |                           |   |  |
|----------------------|------------------------|---|---------------------------|---|--|
| Scheduled Date       | Verified Complete Date | Inspection Item Description                             | Exceptions: SNOW SCTASK # | WDCS (Retail SCE / RSD / OTI Implementation PM) | RRE (JPMC Retail Estate, JLL or CBRE PM) |
|                      |                        | Temporary lock core has been changed to JPMC lock core. |                           |   |  |

| Mechanical/Electrical/Plumbing |                        | Approval Initials                                     |                           |   |  |
|--------------------------------|------------------------|---|---------------------------|---|--|
| Scheduled Date                 | Verified Complete Date | Inspection Item Description                           | Exceptions: SNOW SCTASK # | WDCS (Retail SCE / RSD / OTI Implementation PM) | RRE (JPMC Retail Estate, JLL or CBRE PM) |
|                                |                        | BMS system operational (if required). (Not monitored) |                           |   |  |

| Security       |                        | Approval Initials  |                           |   |  |
|----------------|------------------------|--|---------------------------|---|--|
| Scheduled Date | Verified Complete Date | Inspection Item Description  | Exceptions: SNOW SCTASK # | WDCS (Retail SCE / RSD / OTI Implementation PM) | RRE (JPMC Retail Estate, JLL or CBRE PM) |
|                |                        | Security cameras are installed, online, calibrated, and viewable in the March Network NVR remote viewing software. |                           |   |  |
|                |                        | Door alarms for the branch are enabled.  |                           |   |  |

| Technology - Structured Cabling |                        | Approval Initials   |                           |   |  |
|---------------------------------|------------------------|---|---------------------------|---|--|
| Scheduled Date                  | Verified Complete Date | Inspection Item Description   | Exceptions: SNOW SCTASK # | WDCS (Retail SCE / RSD / OTI Implementation PM) | RRE (JPMC Retail Estate, JLL or CBRE PM) |
|                                 |                        | Room ready data cleaning completed; room is clean and dust free. (Based on SECTION 27 05 03 Requirements)   |                           |   |  |
|                                 |                        | All rack-mounted ground bars have been grounded to the wall mounted ground bus bar.   |                           |   |  |
|                                 |                        | Overhead pathways (ladder racks) have been grounded within the RMER/RTR.  |                           |   |  |
|                                 |                        | Armored communications cable jackets (if any) have been grounded.   |                           |   |  |
|                                 |                        | The grounding connections have been connected to the Network Electronics (switches & routers).  |                           |   |  |
|                                 |                        | Cabling and wallphone plate installed for wall phone(s). Wall phone installed inside room and operational.  |                           |   |  |
|                                 |                        | Backbone cabling (copper/fiber) installation between RMER and RTR (if applicable).  |                           |   |  |
|                                 |                        | Cabling installed, routed, and supported utilizing strain relief in a neat manner that does not block equipment mounting space or interfere with other systems. |                           |   |  |
|                                 |                        | Structured cabling installation complete (terminated, labeled, & tested) in RMER/RTR.   |                           |   |  |
|                                 |                        | No plastic tiewraps used to manage power or communications cabling slack or bundles.  |                           |   |  |
|                                 |                        | Equipment racks, fiber enclosures (if applicable), and patch panels labeled as per the Retail Structured Cabling labeling standard.                             |                           |   |  |
|                                 |                        | Power distribution units (PDUs) mounted to racks & plugged into outlets, or plugged into UPS per design requirements.   |                           |   |  |
|                                 |                        | All equipment power cords are neatly managed.   |                           |   |  |
|                                 |                        | All network equipment racked in their final positions per the rack elevations on the TC drawings.   |                           |   |  |
|                                 |                        | All technology equipment patched and all patching utilizes cable management pathways & is neatly managed.   |                           |   |  |
|                                 |                        | Patch cable stack does not exceed more than 1' on either end of the cable.  |                           |   |  |
|                                 |                        | No cables (horizontal, patch, or backbone) are blocking fan trays or blocking equipment mounting spaces.  |                           |   |  |
|                                 |                        | The JPMC Structured Cabling Engineer has received and reviewed structured cabling test results.   |                           |   |  |
|                                 |                        | As-builts of floor plan with all telecom outlets labeled has been printed out and mounted to the wall.  |                           |   |  |
|                                 |                        | Any punch list items found upon cable test review have been corrected.  |                           |   |  |
|                                 |                        | Carrier equipment is installed and tested by the carrier and JPMC Network Engineer in its designated position.  |                           |   |  |

| Technology - Remote Site Operations |                        | Approval Initials   |                           |   |  |
|-------------------------------------|------------------------|---|---------------------------|---|--|
| Scheduled Date                      | Verified Complete Date | Inspection Item Description   | Exceptions: SNOW SCTASK # | WDCS (Retail SCE / RSD / OTI Implementation PM) | RRE (JPMC Retail Estate, JLL or CBRE PM) |
|                                     |                        | All powered IT equipment, aside from audio-visual or carrier equipment, must be labeled with the device hostname and a yellow asset tag on the front side of the device. A machine generated label indicating the serial number of the device shall also be placed on the front side of the device. |                           |   |  |
|                                     |                        | All racks or cabinets have a yellow asset tag at the top of the front door and all racks must have a yellow asset tag at the top front in a visible area that can be easily accessed with a barcode scanner.  |                           |   |  |
|                                     |                        | All assets have been entered into into the asset management system software and the equipment inventoried in the room matches the inventory in the asset management system software.  |                           |   |  |
|                                     |                        | All WDCS signage has been installed within the room, including red box, bar code scanner, and labels.   |                           |   |  |

**Acceptance Sign-Off**

WDCS: \_\_\_\_\_ Date: \_\_\_\_\_  
 (first and last name of approver)

RRE: \_\_\_\_\_ Date: \_\_\_\_\_  
 (first and last name of approver)

- Comments**
- Note 1 \_\_\_\_\_  
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