

5/19/2021 2:39:05 PM E:\1360\003.7835.000 - Steamboat Redon\03.7835.000_Arch_SSR_Promenade Building 2021_1\2021.rvt

STEAMBOAT SKI & RESORT CORPORATION

SSRC | BASE AREA IMPROVEMENTS

2305 Mount Werner Circle
Steamboat Springs, CO 80487

BID PACK 3: PROMENADE - ISSUE FOR BID & PERMIT 2021.05.19

Conditionally approved- pending resubmittal of site plan with access width, grade, turning radius, turnaround, and turnouts meeting Fire Dept. access requirements or if unable to meet requirements submittal of fire sprinkler and monitored fire alarm plans and permits. No inspections past foundation until the above is resolved.)
www.steamboatsprings.net for details.

PJ4912-1
Fire Prevention
In: 06/15/2021
Out: 06/25/2021



ALTERRA east west partners
MOUNTAIN COMPANY

2305 Mount Werner Circle
Steamboat Springs, CO 80487

Gensler

1225 17th Street
Suite 150
Denver, CO 80202
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DESIGNWORKSHOP

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12499 West Colfax Ave.
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△	Date	Description
-	2021.05.19	BP3: PROMENADE - ISSUE FOR BID AND PERMIT

RCRBD
Record Set
TC
07/10/2021

Seal / Signature



Project Name 05.19.2021

SSRC | BASE AREA
IMPROVEMENTS

Project Number

003.7835.000

Description

COVER

Scale

1A-G0.000

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1A-S0.01	NOTES	-	BP3: PROMENADE - ISSUE FOR BID AND PERMIT	2021.05.19
1A-S0.02	NOTES	-	BP3: PROMENADE - ISSUE FOR BID AND PERMIT	2021.05.19
1A-S0.03	NOTES	-	BP3: PROMENADE - ISSUE FOR BID AND PERMIT	2021.05.19
1A-S0.10	QUALITY ASSURANCE	-	BP3: PROMENADE - ISSUE FOR BID AND PERMIT	2021.05.19
1A-S0.11	QUALITY ASSURANCE	-	BP3: PROMENADE - ISSUE FOR BID AND PERMIT	2021.05.19
1A-S1.00	PROMENADE BUILDING - LOWER LEVEL 1	-	BP3: PROMENADE - ISSUE FOR BID AND PERMIT	2021.05.19
1A-S1.01	PROMENADE BUILDING - LEVEL 1	-	BP3: PROMENADE - ISSUE FOR BID AND PERMIT	2021.05.19
1A-S1.02	PROMENADE BUILDING - LEVEL 2 AND ROOF FRAMING PLAN	-	BP3: PROMENADE - ISSUE FOR BID AND PERMIT	2021.05.19
1A-S3.00	TYPICAL CONCRETE DETAILS	-	BP3: PROMENADE - ISSUE FOR BID AND PERMIT	2021.05.19
1A-S3.01	TYPICAL FOUNDATION DETAILS	-	BP3: PROMENADE - ISSUE FOR BID AND PERMIT	2021.05.19
1A-S3.02	CONCRETE DETAILS	-	BP3: PROMENADE - ISSUE FOR BID AND PERMIT	2021.05.19
1A-S3.10	TYPICAL SOG DETAILS	-	BP3: PROMENADE - ISSUE FOR BID AND PERMIT	2021.05.19
1A-S3.11	CONCRETE DETAILS	-	BP3: PROMENADE - ISSUE FOR BID AND PERMIT	2021.05.19
1A-S3.50	CONCRETE SUPPORTING STEEL DETAILS	-	BP3: PROMENADE - ISSUE FOR BID AND PERMIT	2021.05.19
1A-S3.51	CONCRETE SUPPORTING METAL DECK	-	BP3: PROMENADE - ISSUE FOR BID AND PERMIT	2021.05.19
1A-S4.00	MASONRY DETAILS	-	BP3: PROMENADE - ISSUE FOR BID AND PERMIT	2021.05.19
1A-S5.00	TYP. STEEL BEAM CONNS - LRFD	-	BP3: PROMENADE - ISSUE FOR BID AND PERMIT	2021.05.19
1A-S5.01	TYP. STEEL BEAM CONNS - LRFD	-	BP3: PROMENADE - ISSUE FOR BID AND PERMIT	2021.05.19
1A-S5.02	STEEL DETAILS	-	BP3: PROMENADE - ISSUE FOR BID AND PERMIT	2021.05.19
1A-S5.03	STEEL DETAILS	-	BP3: PROMENADE - ISSUE FOR BID AND PERMIT	2021.05.19
1A-S5.30	TYPICAL COMPOSITE SLAB DETAILS	-	BP3: PROMENADE - ISSUE FOR BID AND PERMIT	2021.05.19
1A-S5.31	TYPICAL SLAB ON METAL DECK DETAILS	-	BP3: PROMENADE - ISSUE FOR BID AND PERMIT	2021.05.19
1A-S5.40	PERFORMANCE SPECIFIED FRAMING	-	BP3: PROMENADE - ISSUE FOR BID AND PERMIT	2021.05.19

ACCESSIBILITY NOTES

1. PILE THICKNESS OF SPECIFIED CARPETS DOES NOT EXCEED 1/2".
2. FLOOR SURFACES SPECIFIED ARE SLIP-RESISTANT.
3. ABRUPT CHANGES IN LEVEL ALONG ACCESSIBLE ROUTE DO NOT EXCEED 1/2" IN HEIGHT. CHANGES BETWEEN 1/4" AND 1/2" ARE BEVELED WITH A SLOPE NO STEEPER THAN 1:2. LEVEL CHANGES NOT EXCEEDING 1/4" MAY BE VERTICAL.
4. LATCHING AND LOCKING DOORS ARE SPECIFIED TO BE OPERABLE WITH A SINGLE EFFORT BY HARDWARE THAT DOES NOT REQUIRE TIGHT GRASPING, PINCHING OR TWISTING OF THE WRIST. DOOR OPENING HARDWARE IS SPECIFIED TO BE MOUNTED BETWEEN 34" AND 48" ABOVE FLOOR FINISH.
5. CLOSERS FOR FIRE-RATED DOORS ARE SPECIFIED TO BE POWER LEVEL 3 FOR INTERIOR DOORS 38" OR LESS IN WIDTH.
6. MAXIMUM PULL OR PUSH EFFORT TO OPERATE NON-FIRE-RATED DOORS SHALL NOT EXCEED 8.5 POUNDS FOR EXTERIOR DOORS AND 5 POUNDS FOR INTERIOR DOORS. MEASURED AT RIGHT ANGLES TO HINGED DOORS AND AT CENTER PLANE OF SLIDING OR FOLDING DOORS. SPECIFIED CLOSERS TO BE ADJUSTED TO COMPLY.
7. ALL DOORS ARE SPECIFIED TO BE NOT LESS THAN 3'-0" IN WIDTH AND NOT LESS THAN 6'-8" IN HEIGHT. DOORS ARE CAPABLE OF OPENING AT LEAST 90 DEGREES AND CLEAR WIDTH IS NOT LESS THAN 32".
8. FLOOR AREAS ON EACH SIDE OF DOORS ARE SPECIFIED TO BE LEVEL AND CLEAR. THE DIMENSIONS OF THE LEVEL AREAS ARE SPECIFIED TO MEET ANSI A117.3 2003, IAC AND ADA CLEARANCE REQUIREMENTS.
9. FLOORS OR LANDINGS ARE SPECIFIED TO BE NOT MORE THAN 1/2" LOWER THAN THE THRESHOLD OF THE DOORWAY. CHANGE IN LEVEL BETWEEN 1/4" AND 1/2" IS SPECIFIED TO BE BEVELED WITH A SLOPE NO STEEPER THAN 1:2.
10. THE UPPER APPROACH AND THE LOWER TREAD OF EACH INTERIOR STAIR IS SPECIFIED TO BE MARKED WITH A STRIP OF CLEARLY CONTRASTING COLOR AT LEAST 2" WIDE, PLACED PARALLEL TO AND NOT MORE THAN 1" FROM THE NOSE OF THE STEP OR LANDING. THE STRIP IS SPECIFIED TO BE A MATERIAL THAT IS AT LEAST AS SLIP RESISTANT AS THE OTHER TREADS OF THE STAIR.
11. ELECTRICAL RECEPTACLE OUTLETS ARE SPECIFIED TO BE NOT LESS THAN 15" ABOVE THE FLOOR OR WORKING PLATFORM.
12. TOILET ROOM ACCESSORIES
 - A. BOTTOM OF MIRROR REFLECTIVE SURFACE IS SPECIFIED TO BE NO HIGHER THAN 40" FROM THE FLOOR.
 - B. TOILET TISSUE DISPENSERS ARE MOUNTED BETWEEN 7" AND 9" FROM THE FRONT EDGE OF THE TOILET SEAT.
 - C. DISPENSING AND DISPOSAL FIXTURES (TOWEL, SANITARY NAPKINS, WASTE, COIN SLOTS, ETC.) WITH OPERATING PARTS ARE MOUNTED NO HIGHER THAN 48" FROM THE FLOOR.
13. THE HEIGHT OF THE WATER CLOSET (TOP OF SEAT) IS BETWEEN 17" AND 19".
14. FLUSH CONTROLS ARE MOUNTED NO MORE THAN 44" ABOVE THE FLOOR, ON THE SIDE OF THE TOILET WITH THE GREATEST CLEARANCE FROM ADJACENT WALL, TOILET PARTITION OR OTHER SURFACE.
15. PROVIDE GRAB BARS IN COMPLIANCE WITH ANSI A117.1 ON EACH SIDE, OR ONE SIDE AND BACK OF WATER CLOSET.
 - A. GRAB BARS TO BE 33" ABOVE AND PARALLEL TO THE FLOOR.
 - B. DIAMETER OF GRAB BARS TO BE 1-1/4" TO 1-1/2".
 - C. PROVIDE 1-1/2" CLEARANCE BETWEEN GRAB BARS AND WALL.
 - D. GRAB BARS (INCLUDING CONNECTORS, FASTENERS, SUPPORT BACKING, ETC.) SHALL SUPPORT A 250 POUND LOAD.
 - E. GRAB BARS SHALL NOT ROTATE WITHIN THEIR FITTINGS.
 - F. GRAB BARS AND ANY ADJACENT SURFACE SHALL BE FREE OF SHARP OR ABRASIVE ELEMENTS.
 - G. EDGES SHALL HAVE A MINIMUM RADIUS OF 18".
16. PROVIDE A CLEAR FLOOR SPACE 30" X 48" IS PROVIDED IN FRONT OF LAVATORY TO PERMIT A FORWARD APPROACH.
17. SINKS AND LAVATORIES ARE MOUNTED TO COMPLY WITH KNEESPACE REQUIREMENTS OF ANSI A117.1
18. FAUCET CONTROLS AND OPERATING MECHANISMS ARE TO BE OPERABLE WITH ONE HAND AND NOT REQUIRE TIGHT GRASPING, PINCHING OR TWISTING OF THE WRIST. THE FORCE REQUIRED TO ACTIVATE CONTROLS SHALL BE NO GREATER THAN 5 POUNDS. SELF-CLOSING CONTROLS ARE TO REMAIN OPEN FOR AT LEAST 10 SECONDS.
19. HOT WATER AND DRAIN PIPES UNDER LAVATORIES ARE INSULATED OR OTHERWISE COVERED.
20. THERE SHALL BE NO SHARP OR ABRASIVE SURFACES UNDER LAVATORIES.

POWER & COMMUNICATION NOTES

1. PRIOR TO CORING SLAB FOR POWER/COMM POKE-THROUGH DEVICES, COORDINATE LOCATIONS WITH OWNER AND/OR OWNERS FURNISHINGS CONTRACTOR AND REVIEW WITH ARCHITECT.
2. INDICATED DIMENSIONS ARE TO THE CENTER LINE OF OUTLET OR SWITCH, OR CLUSTER OF OUTLETS OR SWITCHES, UNLESS OTHERWISE NOTED.
3. INSTALL OUTLETS ON OPPOSITE SIDES OF PARTITIONS IN SEPARATE STUD CAVITIES. DO NOT INSTALL BACK-TO-BACK.
4. PROVIDE MATCHING COVER PLATES, RECEPTACLES AND RELATED ITEMS. PROVIDE ONE-PIECE TYPE GANG COVER PLATES, UNLESS NOTED OTHERWISE.
5. COORDINATE INSTALLATION OF TELECOMMUNICATIONS, DATA AND SECURITY SYSTEMS.
6. IDENTIFY DEDICATED OR ISOLATED GROUND ELECTRICAL OUTLETS WITH A RED DOT.
7. VERIFY EQUIPMENT SPECIFICATIONS, POWER AND INSTALLATION REQUIREMENTS WITH MANUFACTURER TO ENSURE PROPER FIT AND FUNCTION.
8. VERIFY MOUNTING REQUIREMENTS OF ELECTRICAL, TELEPHONE AND OTHER EQUIPMENT. PROVIDE NON-COMBUSTIBLE BLOCKING WITHIN WALLS AS REQUIRED FOR PROPER EQUIPMENT INSTALLATION.
9. GANG ADJACENT LIGHT SWITCHES AND COVER WITH A SINGLE PLATE.
10. MOUNT STANDARD WALL OUTLETS, SWITCHES AND THERMOSTATS AT HEIGHTS REQUIRED BY ADA GUIDELINES, UNLESS OTHERWISE NOTED. WHEN THERMOSTATS AND LIGHT SWITCH OCCUR TOGETHER, INSTALL BOTH ALIGNED HORIZONTALLY WITH CENTER LINE AT +3'-2" ABOVE FINISHED FLOOR.

FINISH NOTES

1. ENSURE SURFACES TO RECEIVE FINISHES ARE CLEAN, TRUE, AND FREE OF IRREGULARITIES. DO NOT PROCEED WITH WORK UNTIL UNSATISFACTORY CONDITIONS HAVE BEEN CORRECTED.
2. REPAIR EXISTING SURFACES TO REMAIN AS REQUIRED FOR APPLICATION OF NEW FINISHES.
3. PROVIDE STRAIGHT, FLUSH RESILIENT BASE AT CARPETED AREAS, AND COVED, TOP SET RESILIENT BASE AT RESILIENT FLOORING, UNLESS OTHERWISE NOTED.

GENERAL NOTES

1. COMPLY WITH CODES, LAWS, ORDINANCES, RULES, AND REGULATIONS OF PUBLIC AUTHORITIES GOVERNING THE WORK.
2. OBTAIN AND PAY FOR PERMITS AND INSPECTIONS REQUIRED BY PUBLIC AUTHORITIES GOVERNING THE WORK.
3. REVIEW DOCUMENTS, VERIFY DIMENSIONS AND FIELD CONDITIONS AND CONFIRM THAT WORK IS BUILDABLE AS SHOWN. REPORT ANY CONFLICTS OR OMISSIONS TO THE ARCHITECT FOR CLARIFICATION PRIOR TO PERFORMING ANY WORK IN QUESTION.
4. SUBMIT REQUESTS FOR SUBSTITUTIONS, REVISIONS, OR CHANGES TO ARCHITECT FOR REVIEW PRIOR TO PURCHASE, FABRICATION OR INSTALLATION.
5. COORDINATE WORK WITH THE LANDLORD AND OWNER, INCLUDING SCHEDULING TIME AND LOCATIONS FOR DELIVERIES, BUILDING ACCESS, USE OF BUILDING SERVICES AND FACILITIES, AND USE OF ELEVATORS. MINIMIZE DISTURBANCE OF BUILDING FUNCTIONS AND OCCUPANTS.
6. OWNER WILL PROVIDE WORK NOTED "BY OTHERS" OR "NIC" UNDER SEPARATE CONTRACT. INCLUDE SCHEDULE REQUIREMENTS IN CONSTRUCTION PROGRESS SCHEDULE AND COORDINATE TO ASSURE ORDERLY SEQUENCE OF INSTALLATION.
7. COORDINATE TELECOMMUNICATIONS, DATA AND SECURITY SYSTEM INSTALLATIONS.
8. MAINTAIN EXITS, EXIT LIGHTING, FIRE PROTECTIVE DEVICES, AND ALARMS IN CONFORMANCE WITH CODES AND ORDINANCES.
9. MAINTAIN WORK AREAS SECURE AND LOCKABLE DURING CONSTRUCTION. COORDINATE WITH TENANT AND LANDLORD TO ENSURE SECURITY.
10. UNDERCUT DOORS TO CLEAR TOP OF FLOOR FINISHES BY 1/4 INCH, UNLESS OTHERWISE NOTED.
11. PROVIDE ALL ACCESS PANELS REQUIRED FOR ALL JUNCTION BOXES, VALVES, CLEANOUTS, PLUGS, FILTERS, EQUIPMENT, AND ALL OTHER ITEMS REQUIRING SERVICE OR MAINTENANCE.
12. PROTECT AREA OF WORK AND ADJACENT AREAS FROM DAMAGE.
13. DO NOT SCALE DRAWINGS. WRITTEN DIMENSIONS GOVERN. IN CASE OF CONFLICT, CONSULT THE ARCHITECT.
14. PARTITIONS ARE DIMENSIONED FROM FINISH FACE TO FINISH FACE, UNLESS OTHERWISE NOTED.
15. MAINTAIN DIMENSIONS MARKED "CLEAR". ALLOW FOR THICKNESS OF FINISHES.
16. PROVIDE CONCEALED BLOCKING AS REQUIRED FOR WORK BY OWNERS' OTHER CONTRACTORS. COORDINATE WITH OTHER CONTRACTORS FOR SIZE, TYPE AND LOCATION OF REQUIRED BLOCKING.
17. WHERE EXISTING ACCESS PANELS CONFLICT WITH CONSTRUCTION, RELOCATE PANELS TO ALIGN WITH AND FIT WITHIN NEW CONSTRUCTION.

FIRE PREVENTION NOTES

1. EVERY EXIT DOOR IS SPECIFIED TO BE OPERABLE FROM THE INSIDE WITHOUT THE USE OF A KEY AND WITHOUT ANY SPECIAL KNOWLEDGE OR EFFORT. SPECIAL LOCKING DEVICES SHALL BE OF AN APPROVED TYPE. ALL NEW DOORS SHALL HAVE APPROVED LEVER HANDLES.
2. INTERIOR WALL AND CEILING FINISHES ARE SPECIFIED TO BE CLASS 2 (FLAME SPREAD 26-75, SMOKE DEVELOPED 450 OR LESS) OR BETTER.
3. INTERIOR TRIM IS SPECIFIED TO BE CLASS 3 (FLAME SPREAD 76 TO 200, SMOKE DEVELOPED 450 OR LESS) OR BETTER.
4. INTERIOR TRIM FOR CEILINGS IS SPECIFIED TO BE 10% OR LESS OF TOTAL CEILING AREA. INTERIOR TRIM FOR WALLS IS SPECIFIED TO BE 20% OR LESS OF TOTAL WALL AREA.
5. THIS PROJECT DOES NOT INCLUDE STORAGE, DISPENSING OR USE OF ANY FLAMMABLE OR COMBUSTIBLE LIQUIDS, FLAMMABLE GAS OR HAZARDOUS SUBSTANCES.
6. ALL WOOD BLOCKING, CLEATS, GROUNDS, SHEATHING AND OTHER MISC. CARPENTRY ITEMS SHALL BE FIRE RETARDANT TREATED.
7. FLOOR COVERINGS FOR CORRIDORS, LOBBIES, STAIRS, OTHER EXIT PATHS OR EXIT AREAS ARE SPECIFIED TO BE CLASS B OR BETTER.
8. PROVIDE A PORTABLE FIRE EXTINGUISHER WITH A RATING OF NOT LESS THAN 2-A WITHIN 75 FOOT TRAVEL DISTANCE TO ALL PORTIONS OF THE BUILDING ON EACH FLOOR, WITHIN ELECTRICAL AND MECHANICAL ROOMS, AND ADDITIONAL EXTINGUISHERS AS REQUIRED BY GOVERNING AUTHORITIES. PROVIDE PORTABLE FIRE EXTINGUISHER COMPATIBLE WITH AUTOMATIC FIRE EXTINGUISHING SYSTEM AGENT AND IN ACCORDANCE WITH SECTION 904.12.5 OF THE IFC, AND WITHIN 30 FT OF COMMERCIAL KITCHEN EQUIPMENT.
9. PROVIDE EXIT SIGN WITH 6" LETTERS OVER REQUIRED EXITS, WHERE SHOWN ON DRAWINGS, AND ADDITIONAL SIGNS AS REQUIRED BY BUILDING DEPARTMENT INSPECTOR OR FIRE DEPARTMENT FIELD INSPECTOR. CONNECT EXIT SIGNS TO EMERGENCY POWER CIRCUITS. COMPLY WITH BUILDING CODES.
10. PROVIDE EMERGENCY LIGHTING OF ONE FOOT-CANDLE AT FLOOR LEVEL. COMPLY WITH BUILDING CODES.
11. MAINTAIN AISLES AT LEAST 44" WIDE AT PUBLIC AREAS.
12. DOORS OPENING INTO REQUIRED 1-HOUR, FIRE-RESISTIVE CORRIDORS SHALL BE PROTECTED WITH A SMOKE OR DRAFT STOP ASSEMBLY HAVING A 20-MINUTE RATING AND SHALL BE SELF-CLOSING.
13. 20-MINUTE DOOR JAMBS TO BE TIGHT-FITTING, SMOKE AND DRAFT CONTROLLED.
14. EXIT DOORS SHALL SWING IN THE DIRECTION OF TRAVEL WHEN SERVING 50 OR MORE PERSONS AND IN ANY HAZARDOUS AREA.
15. DECORATIONS (CURTAINS, DRAPES, SHADES, HANGINGS, ETC.) SHALL BE NON-COMBUSTIBLE OR BE FLAMEPROOFED IN AN APPROVED MANNER. DECORATIONS (CURTAINS, DRAPES, SHADES, HANGINGS, ETC.) SHALL BE NON-COMBUSTIBLE OR BE FLAMEPROOFED IN AN APPROVED MANNER.
16. PROVIDE FIRE DAMPERS, FIRE SMOKE DAMPERS OR DOORS WHERE DUCTS PENETRATE FIRE-RATED WALLS OR CEILINGS. TYPICAL ALL AREAS. COORDINATE WITH EOR TO ENSURE FIRE SMOKE OR SMOKE DAMPER ARE REQUIRED AT LOCATIONS. WORK PERFORMANCE WITH OUT CLARIFICATION OR COORDINATION SHALL BE REMOVED AND REPLACED AT THE EXPENSE OF THE GC.
17. STORAGE, DISPENSING OR USE OF ANY FLAMMABLE OR COMBUSTIBLE LIQUIDS, FLAMMABLE GAS AND HAZARDOUS SUBSTANCES SHALL COMPLY WITH UNIFORM, FIRE CODE REGULATIONS.
18. EXTEND OR MODIFY EXISTING FIRE LIFE SAFETY SYSTEM AS REQUIRED TO PROVIDE AN APPROVED FIRE/LIFE SAFETY SYSTEM FOLLOWING APPROVAL BY LANDLORD'S LIFE SAFETY ENGINEER. SUBMIT PLANS TO FIRE DEPARTMENT WITH COMPLETE DESCRIPTION OF SEQUENCE OF OPERATION, AND OBTAIN APPROVAL PRIOR TO INSTALLATION.
19. LOCATE THE CENTER OF FIRE ALARM INITIATING DEVICES 48" ABOVE THE LEVEL OF THE FLOOR, WORKING PLATFORM, GROUND SURFACE OR SIDEWALK.
20. EMERGENCY WARNING SYSTEMS SHALL ACTIVATE A MEANS OF WARNING THE HEARING IMPAIRED. FLASHING VISUAL WARNING SHALL HAVE A FREQUENCY OF NOT MORE THAN 60 FLASHES PER MINUTE.
21. EXTEND OR MODIFY EXISTING AUTOMATIC FIRE EXTINGUISHING SYSTEM AS REQUIRED TO PROVIDE AN APPROVED AUTOMATIC FIRE EXTINGUISHING SYSTEM FOLLOWING APPROVAL BY LANDLORD'S LIFE SAFETY ENGINEER. SUBMIT PLANS TO FIRE DEPARTMENT AND OBTAIN APPROVAL PRIOR TO INSTALLATION.
22. AUTOMATIC SPRINKLER SYSTEMS SHALL BE SUPERVISED BY AN APPROVED CENTRAL, PROPRIETARY OR REMOTE STATION SERVICE OR A LOCAL ALARM WHICH WILL GIVE AN AUDIBLE SIGNAL AT A CONSTANTLY ATTENDED LOCATION.

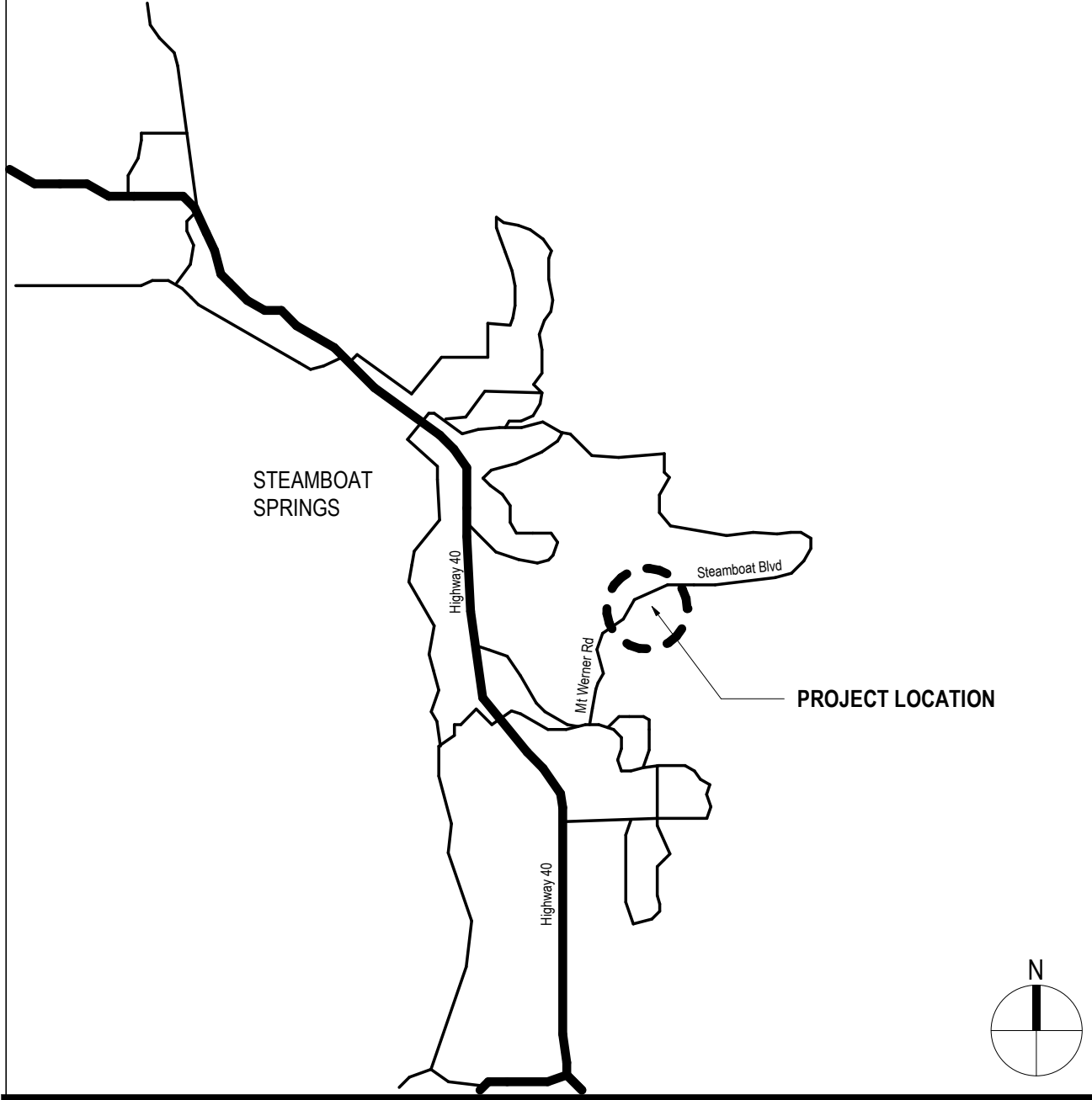
DEMOLITION NOTES

1. REMOVE DESIGNATED PARTITIONS, CEILINGS COMPONENTS, BUILDING EQUIPMENT, AND FIXTURES AS REQUIRED FOR NEW WORK.
2. REMOVE EXISTING WORK AS REQUIRED TO ACCOMMODATE NEW WORK, EVEN WHERE NOT EXPRESSLY INDICATED ON DEMOLITION PLANS.
3. REMOVE ABANDONED HVAC EQUIPMENT, DUCT WORK, CONTROLS, REGISTERS, GRILLES AND ALL ASSOCIATED HARDWARE & ACCESSORIES.
4. REMOVE ABANDONED ELECTRICAL, TELEPHONE, DATA, SECURITY AND SIMILAR OTHER CABLING, CONDUIT, EQUIPMENT AND DEVICES, UNLESS OTHERWISE NOTED.
5. REMOVE ABANDONED ELECTRICAL, TELEPHONE, DATA, SECURITY AND SIMILAR OTHER CABLING, CONDUIT, EQUIPMENT AND DEVICES, UNLESS OTHERWISE NOTED.
6. REMOVE ABANDONED PLUMBING EQUIPMENT, VALVES, PIPING AND ALL ASSOCIATED HARDWARE & ACCESSORIES.
7. REMOVE EXISTING FLOOR FINISHES WHERE INDICATED AND PREPARE SUBFLOOR AS REQUIRED FOR NEW FLOOR FINISHES.
8. COMPLY WITH APPLICABLE LOCAL, STATE AND FEDERAL CODES AND REGULATIONS PERTAINING TO SAFETY OF PERSONS, PROPERTY AND ENVIRONMENTAL PROTECTION.
9. PROVIDE AND MAINTAIN BARRICADES, LIGHTING, AND GUARDRAILS AS REQUIRED BY APPLICABLE CODES AND REGULATIONS TO PROTECT OCCUPANTS OF BUILDING AND WORKERS.
10. ERECT AND MAINTAIN DUSTPROOF PARTITIONS AS REQUIRED TO PREVENT SPREAD OF DUST, FUMES, AND SMOKE, ETC. TO OTHER PARTS OF THE BUILDING. ON COMPLETION, REMOVE PARTITIONS AND REPAIR DAMAGED SURFACES TO MATCH ADJACENT SURFACES.
11. IF DEMOLITION IS PERFORMED IN EXCESS OF THAT REQUIRED, RESTORE EFFECTED AREAS AT NO COST TO THE OWNER.
12. REMOVE FROM SITE DAILY AND LEGALLY DISPOSE OF REFUSE, DEBRIS, RUBBISH, AND OTHER MATERIALS RESULTING FROM DEMOLITION OPERATIONS. LEAVE ALL AREAS BROOM CLEAN DAILY.
13. NO EXISTING LANDLORD WORK SHALL BE REMOVED UNLESS SUCH REMOVAL IS APPROVED IN WRITING BY LANDLORD.

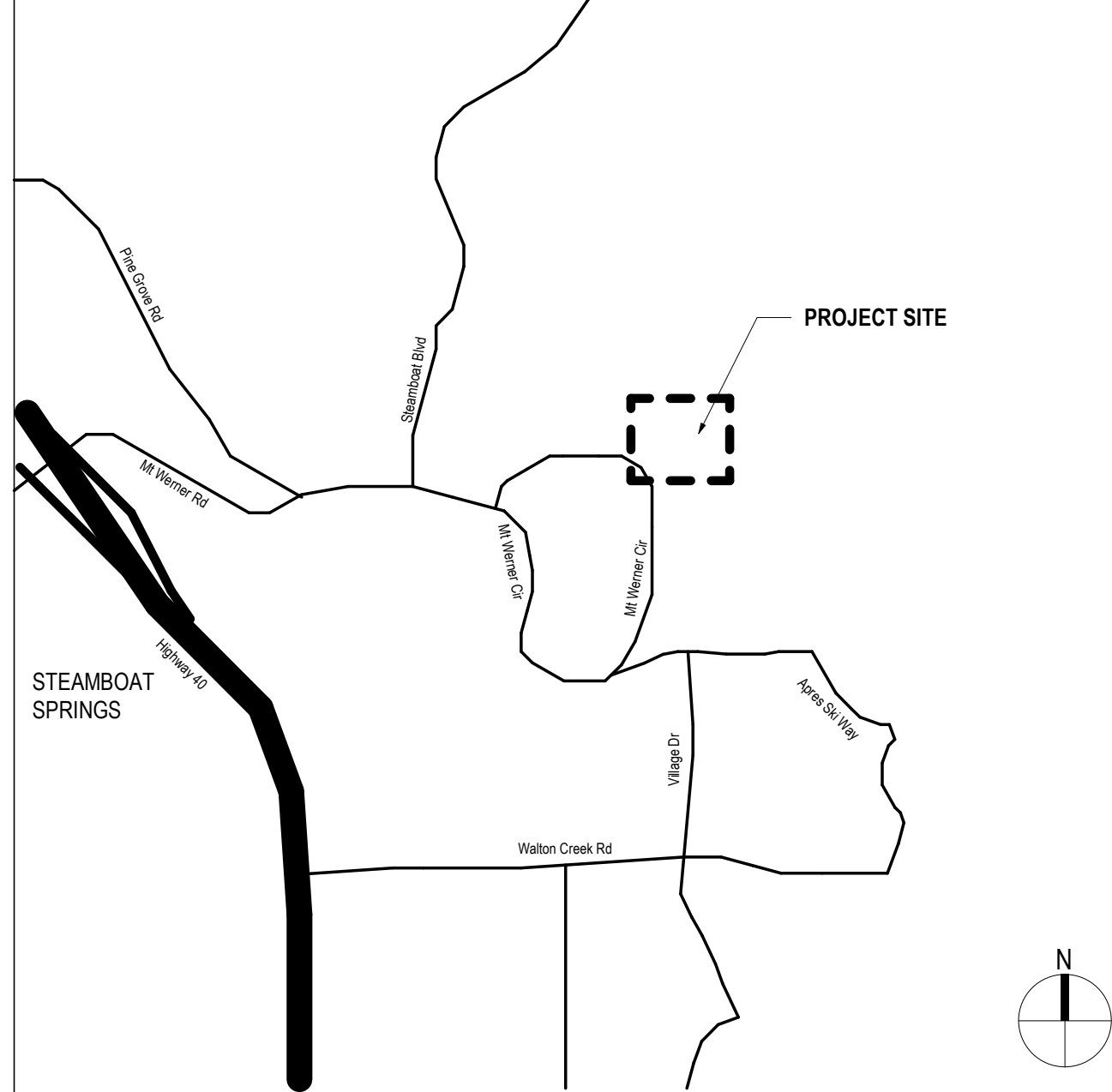
REFLECTED CEILING NOTES

1. LOCATE REGISTERS AND LIGHTING FIXTURES WITHIN GRID LINES. CENTER SPRINKLER HEADS, SPEAKERS, RECESSED FIXTURES, AND SIMILAR CEILING ELEMENTS IN ACOUSTICAL UNITS, UNLESS OTHERWISE NOTED.
2. FINISH HVAC DIFFUSERS, DRAPERS, PACKETS, SPEAKER GRILLES AND OTHER ITEMS LOCATED IN CEILING TO MATCH ADJACENT FINISH, UNLESS OTHERWISE NOTED.
3. DIMENSIONS FOR CEILING LOCATIONS, ENLARGED PLAN TARGETS, DETAIL TARGETS, ETC. ARE NOTED ON REFLECTED CEILING PLANS, DIMENSIONS, TARGETS, ETC. THAT ARE TYPICAL FOR MANY AREAS ARE NOTED ONLY ONCE.
4. SEE ENGINEERING AND CONSULTANT(S) DRAWINGS FOR QUANTITY AND LOCATION OF ALL EXIT AND EMERGENCY LIGHTS, THERMOSTATS, SPRINKLER HEADS, LIFE SAFETY SPEAKERS, AND DIFFUSER GRILLES, TYPICAL UNLESS NOTED OTHERWISE.
5. SEE ENGINEERING AND CONSULTANT(S) DRAWINGS FOR ADDITIONAL INFORMATION, DEVICES, DETAILS, ETC., TYPICAL.
6. REFER TO ELECTRICAL DRAWINGS FOR SWITCHING AND/OR POWER ZONES.
7. THE ELECTRICAL CONTRACTOR IS RESPONSIBLE TO PROVIDE ALL REQUIRED CONDUITS, PULL BOXES, HOME RUNS, WALL JUNCTION BOXES, PLASTER RINGS, ETC. FOR INSTALLATION, PULLING, ETC. OF ALL VOICE/DATA DEVICES, CABLES, SECURITY DEVICES, ETC., TYPICAL UNLESS NOTED OTHERWISE. GENERAL CONTRACTOR TO COORDINATE.
8. ALL LIGHT FIXTURES, LIFE SAFETY DEVICES AND SPRINKLER HEADS SHALL BE LOCATED IN THE CENTER OF A CEILING TILE IN BOTH DIRECTIONS AND SHALL ALSO ALIGN WITH ADJACENT FIXTURES, DEVICES OR HEADS IN A RUN OR ROW OF FIXTURES, DEVICES OR HEADS, TYPICAL UNLESS NOTED OTHERWISE.
9. IF LOCATION DIMENSION ARE NOT NOTED AND/OR INDICATED, FINAL POSITIONING OF ALL/ANY EXPOSED DEVICES TO BE COORDINATED WITH DESIGNER/ARCHITECT.
10. ALL EXIT LIGHTS/SIGNS TO MATCH BASE BUILDING UNLESS NOTED OTHERWISE.
11. ALL DIMENSIONS INDICATING LIGHT SWITCH AND/OR ANY OTHER DEVICE LOCATIONS ARE TO CENTER LINES OF SWITCHES AND/OR DEVICES, TYPICAL UNLESS NOTED OTHERWISE.

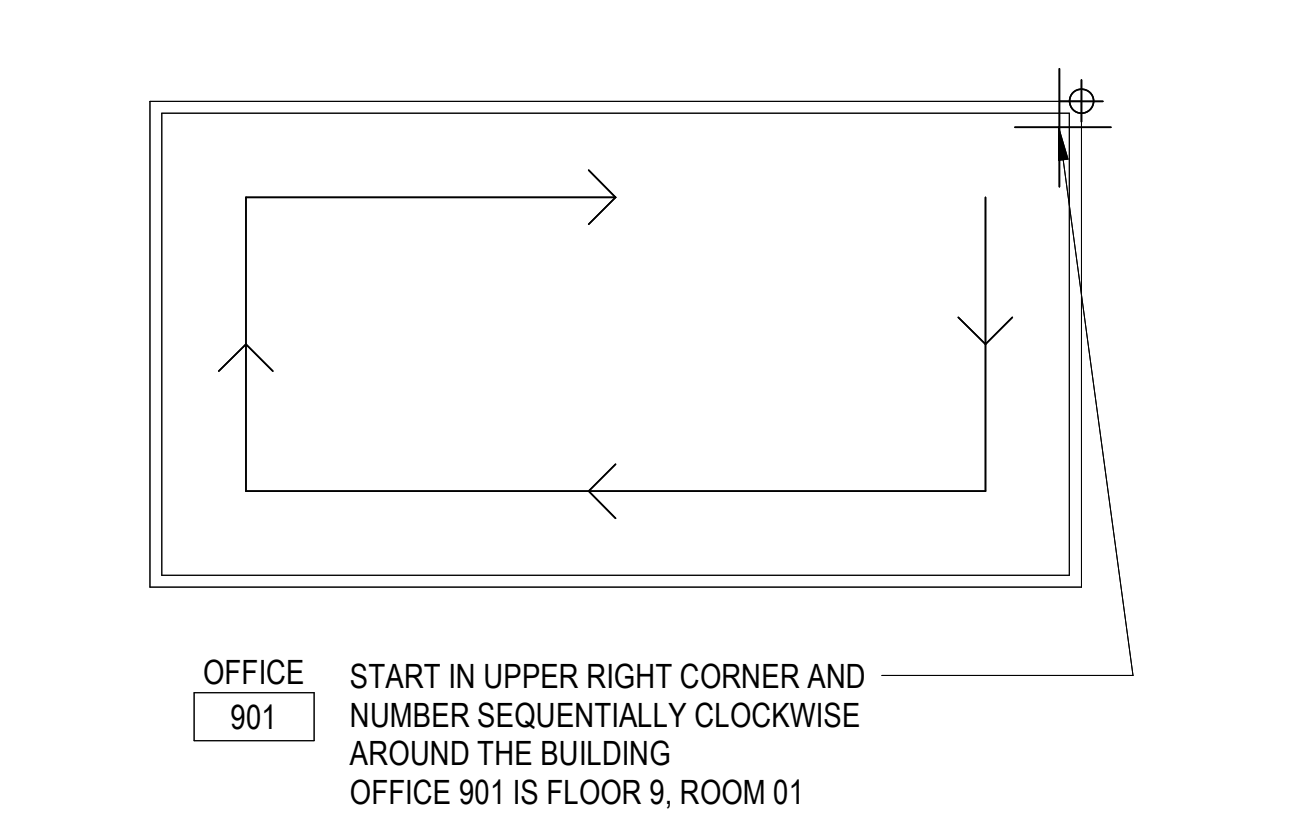
VICINITY MAP



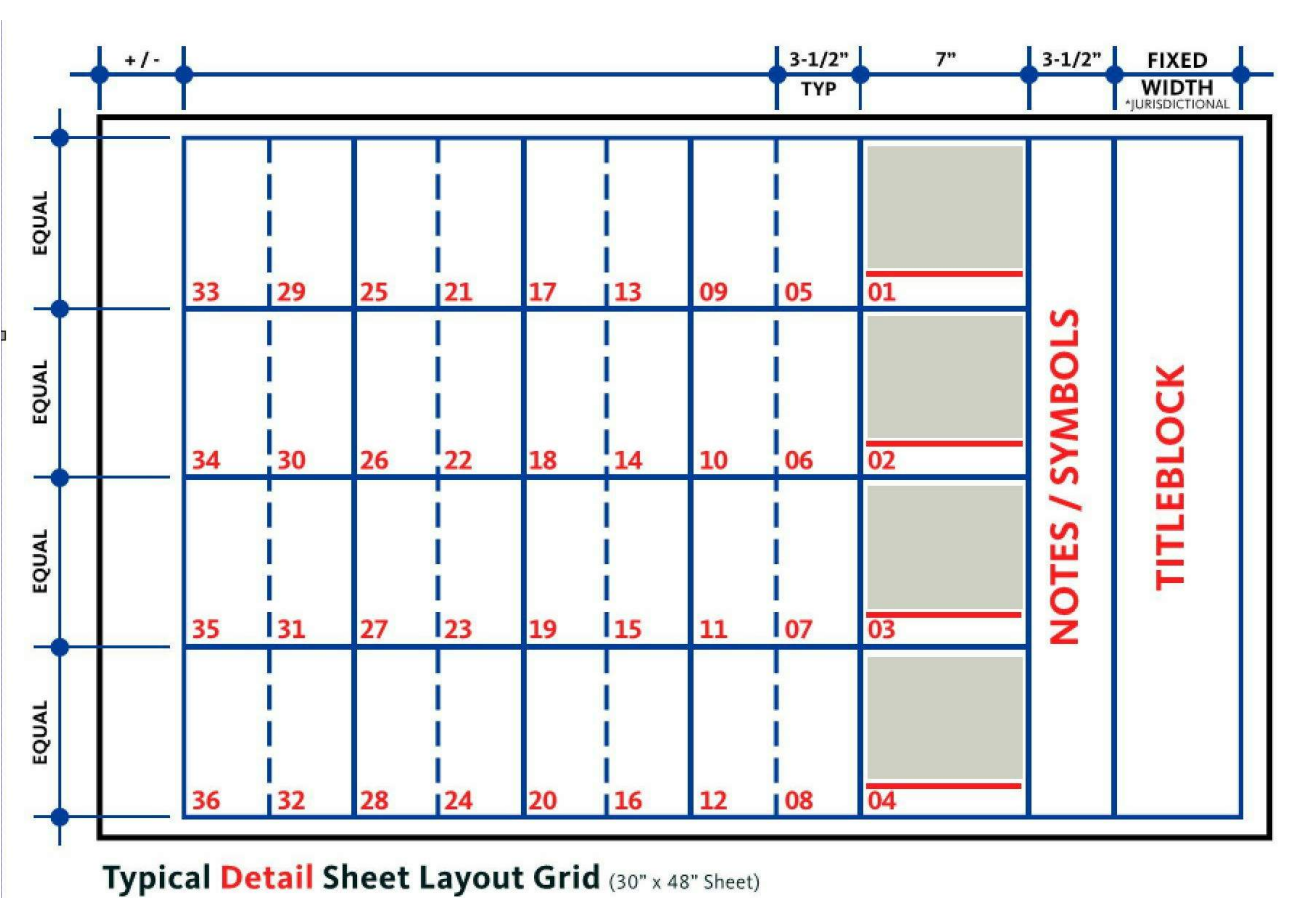
LOCATION MAP



ROOM NUMBERING SYSTEM



SHEET LAYOUT GRID SYSTEM



Typical Detail Sheet Layout Grid (30" x 48" Sheet)

PROJECT INFORMATION

FOLLOWING ARE THE PLANS OUTLINING THE SCOPE OF WORK REQUIRED FOR THE NEW CONSTRUCTION AND RENOVATION OF THE STEAMBOAT BASE VILLAGE.

THE WORK OF PROJECT IS DEFINED BY THE CONTRACT DOCUMENTS AND CONSISTS OF NEW CONSTRUCTION AND RENOVATION OF THE STEAMBOAT BASE VILLAGE.

THE WORK FOR THE PROMENADE BUILDING AND PLAZA BUILDING WILL BE PERMITTED IN 3 PACKAGES. A CERTIFICATE OF OCCUPANCY IS NOT BEING REQUESTED UNTIL THE FINAL PACKAGE IS PERMITTED, CONSTRUCTED, AND ALL LIFE SAFETY SYSTEMS AND INSPECTIONS AND OTHER REQUIREMENTS OF THE AUTHORITIES HAVING JURISDICTION ARE COMPLETED AND APPROVED.

PACKAGE I – PROMENADE BUILDING SHELL AND CORE. THIS INCLUDES FOUNDATIONS, SUPERSTRUCTURE, AND UNDERGROUND UTILITIES. PLAZA LANDSCAPING – HARDSCAPE AND SOFTSCAPE, ICE RINK, AND STAGE. MECHANICAL, ELECTRICAL, PLUMBING, FIRE PROTECTION, AND INFORMATION TECHNOLOGY SCOPES INCLUDE EXTERIOR ENCLOSURE, INTERIOR FINISHES, EXTERIOR UPPER LEVEL PATIO, PARTITIONS, AND FOOD SERVICE EQUIPMENT. THE PLAZA BUILDING PACKAGE WILL INCLUDE VERTICAL TRANSPORTATION – ELEVATOR – CONNECTING THE PROMENADE BUILDING TO THE UPPER FLOORS OF THE PLAZA BUILDING, AND THE EGRESS STAIR FROM THE PROMENADE BUILDING TO THE PLAZA BUILDING – THUS COMPLETING THIS EGRESS PATH.

PACKAGE II – PROMENADE BUILDING – TENANT INTERIORS. THIS WORK INCLUDES NEW PARTITIONS, FINISHES, MECHANICAL, ELECTRICAL, PLUMBING, AND FIRE PROTECTION FOR PROGRAMMED SPACE IN THE PREVIOUS SHELL AND CORE FUTURE SPACE.

PACKAGE III – PROMENADE PLAZA BUILDING – PERMIT AND CONSTRUCTION. THIS WORK INCLUDES THE CONSTRUCTION OF A FOOD AND BEVERAGE HALL ON THE PLAZA LEVEL. ALL ARCHITECTURAL SYSTEMS FOR COMPLETING THE PROMENADE- PLAZA BUILDING AS ONE BUILDING WILL BE PART OF THIS PACKAGE. THIS SCOPE INCLUDES EXTERIOR ENCLOSURE, INTERIOR FINISHES, EXTERIOR UPPER LEVEL PATIO, PARTITIONS, AND FOOD SERVICE EQUIPMENT. THE PLAZA BUILDING PACKAGE WILL INCLUDE VERTICAL TRANSPORTATION – ELEVATOR – CONNECTING THE PROMENADE BUILDING TO THE UPPER FLOORS OF THE PLAZA BUILDING, AND THE EGRESS STAIR FROM THE PROMENADE BUILDING TO THE PLAZA BUILDING – THUS COMPLETING THIS EGRESS PATH.

THE DRAWINGS, IN CONCERT WITH THE PROJECT MANUAL, COMPRISE THE CONTRACT DOCUMENTS OUTLINING THE DESIGN INTENT AND PROJECT SCOPE, AND MAY BE SUPPLEMENTED BY FURTHER INFORMATION ISSUED BY ARCHITECT.

THE DRAWINGS ARE ARRANGED IN GENERAL TO SPECIFIC ORDER, FOLLOWING A TOP TO BOTTOM, RIGHT TO LEFT FORMAT. CONTRACTORS ARE ADVISED TO READ AND FAMILIARIZE THEMSELVES WITH THE INFORMATION IN THE PROJECT MANUAL, AS WELL AS THE GENERAL LEGENDS CONTAINED IN THE G SERIES OF DRAWINGS, PRIOR TO REVIEW OF THE PLANS, ELEVATIONS AND DETAILS. ADVISE THE ARCHITECT WHERE INTENT IS NOT CLEARLY PERCEIVED, BEFORE TO PROCEEDING WITH WORK.


BUILDING ADDRESS:	2305 MOUNT WERNER CIRCLE STEAMBOAT SPRINGS, CO 80487
BUILDING JURISDICTION:	ROUITT COUNTY, STEAMBOAT SPRINGS, COLORADO
APPLICABLE CODES:	2018 INTERNATIONAL BUILDING CODE 2018 INTERNATIONAL MECHANICAL CODE 2018 INTERNATIONAL PLUMBING CODE 2018 INTERNATIONAL FUEL GAS CODE 2018 INTERNATIONAL FIRE CODE 2020 NATIONAL ELECTRIC CODE 2018 INTERNATIONAL ENERGY CONSERVATION CODE 2009 ICC A117.1, ACCESSIBILITY REQUIREMENTS 2010 ADA ACCESSIBILITY GUIDELINES ANSI/ASME A17.1, SAFETY CODE FOR ELEVATORS 2013 USEABLE BUILDING & FACILITIES CODE STEAMBOAT SPRINGS AND ROUTE COUNTY CODE AMENDMENTS
OCCUPANCY TYPE:	PROMENADE BUILDING = S-2, B-BUSINESS PLAZA BUILDING= A-2, S-2
CONSTRUCTION TYPE:	PROMENADE BUILDING, PLAZA BUILDING = IIB
FIRE SUPPRESSION:	FIRE ALARM AND SMOKE DETECTION SYSTEM PER IBC 907.2 & NFPA 72
FIRE ALARM SYSTEM:	FIRE RESISTIVE, (100% SPRINKLERED PER NFPA 13 AND STANDPIPES IN EACH STAIRWAY ENCLOSURE WITH HOSE CONNECTIONS AT INTERMEDIATE LANDINGS AND ROOF MANIFOLDS
DEFERRED SUBMITTALS:	<ul style="list-style-type: none">• CPMF WALLS• SHOP FABRICATED METAL STAIRS• GUARDRAILS (INCLUDING CABLE RAILS IN PARKING GARAGE)• GLASS (STOREFRONT AND CURTAINWALL)• FIRE ALARM SYSTEM• FIRE SPRINKLER SYSTEM• ACCESS CONTROL HARDWARE• ELEVATOR GUIDE RAILS AND SUPPORT• SPRAY-APPLIED FIRE PROOFING
NUMBER OF STORIES IN BUILDING:	3 STORIES, BASEMENT, LEVEL 01, LEVEL 02 LEVELS 01 AND 02 WILL BE PART OF A FUTURE PACKAGE
TOTAL FLOOR AREA:	PROMENADE BUILDING 23,839 GSF
LEED CERTIFICATION:	CERTIFIED LEVEL

PROJECT TEAM


Client / Signatory	
CLIENT / OWNER:	ALTERRA MOUNTAIN COMPANY REAL ESTATE DEVELOPMENT 3501 WAZEE STREET DENVER, CO 80216 (303) 749 - 8200
CIVIL ENGINEER:	LANDMARK CONSULTANTS, INC. 141 9TH STREET, PO BOX 774943 STEAMBOAT SPRINGS, CO 80477 (970) 871-9494
LANDSCAPE ARCHITECT:	DESIGN WORKSHOP 1390 LAWRENCE STREET DENVER, CO 80204 (303) 623-5186
ARCHITECT:	GENSLER 1225 17TH STREET, SUITE 150 DENVER, CO 80202 (303) 595 - 8585
STRUCTURAL ENGINEER:	MARTIN / MARTIN ENGINEERS 12499 WEST COLFAX AVE LAKEWOOD, CO 80215 (303) 431 - 6100
MECHANICAL / ELECTRICAL / PLUMBING ENGINEER:	ME ENGINEERS 14143 DENVER WEST PKWY, SUITE 300 GOLDEN, CO 80401 (303) 421-6655



1390 Lawrence Street
Suite 100
Denver, CO 80204
Tel 303.595.8585
Fax 303.625.6823




2305 Mount Werner Circle
Steamboat Springs, CO 80487



1225 17th Street
Suite 150
Denver, CO 80202
United States




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12499 West Colfax Ave.
Lakewood, CO 80215
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Tel 303.431.6100



14143 Denver West Pkwy
Suite 300
Golden, CO
United States
Tel 303.421.6655

Date	Description
2021.05.19	BP3: PROMENADE - ISSUE FOR PERMIT

RCRBD
Record Set
TC
07/10/2021



Project Name: 05.19.2021

SSRC | BASE AREA IMPROVEMENTS

Project Number: 003.7835.000

Description: PROJECT INFORMATION

Scale: 12" = 1'-0"

1A-G1.001

ABBREVIATIONS

WITH		RH	RIGHT HAND	MONO	MONOLITHIC
WITHOUT		RM	ROOM	MOT	MOTOR(ZED)
WOOD BASE		RMV	REMOVE	MOV	MOVABLE
WATER CLOSET		RO	ROUGH OPENING	MP	METAL ACUSTICAL PANEL
WOOD		RD	ROUGH OPENING	MR	MOP RECEPTOR
WINDOW		ROW	RIGHT OF WAY	MRD	METAL ROOF DECK
WIDE FLANGE (STRUCTURAL STEEL)		RPT	REPEAT (LIKE "DITTO")	MTD	MOUNTED
WATER HEATER		RR	RAILROAD	MTL	MOUNTED
WELD				MTR	MOTOR
WIRE MESH		S		MULL	MULLION
WATERPROOFING		S4S	SURFACED 4 SIDES	MWK	MILLWORK
WORKING POINT		SALV	SALVAGE		
WATER RESISTANT OR WATER REPELLANT		SAN	SANITARY	N	
		SC	SOLID CORE	NAT	NATURAL
WEATHERSTRIPPING		SCHED	SCHEDULE	NEUT	NEUTRAL
WEIGHT		SCR	SCRIBE	NIC	NOT IN CONTACT
WATERPROOFING		SCRN	SCREEN	NMT	NON-METALLIC
WELDED WIRE FABRIC		SCUP	SCUPPER	NUMBER	
		SCWD	SOLID CORE WOOD DOOR	NOM	NOMINAL
		SE	STRUCTURAL ENGINEER	NR	NOISE REDUCTION
X H/Y	EXTRA HEAVY	SECT	SECTION	NRC	NOISE REDUCTION COEFFICIENT
X STR	EXTRA STRONG	SECUR	SECURITY	NS	NEAR SIDE
XH	EXTRA HEAVY	SECY	SECRETARY	NTS	NOT TO SCALE
		SED	SEWAGE EJECTOR DISCHARGE		
Y		SEL	SELECT	O	
YD	YARD	SERV	SERVICE	O TO O	OUT TO OUT
YR	YEAR	SEV	SEWAGE EJECTOR VENT	O, O/	OVER
		SF	SQUARE FEET	OA	OVERALL
		SF	SQUARE FOOT	OC	ON CENTER
		SFGL	SAFETY GLASS	OD	OUTSIDE DIAMETER
		SG	SINGLE	OF	OUTSIDE FACE
		SGG	STRUCTURAL GLAZING GASKET	OFF	OFFICE
		SGL	SINGLE	OH	OVERHEAD
		SGS	SILICONE GLAZING SEALANT	OHD	OVERHEAD DOOR
		SHORG	SHORING	OPNG	OPENING(S)
		SHT	SHEET	OPP	OPPOSITE
		SHTHG	SHEATHING	OPP H	OPPOSITE HAND
		SHWR	SHOWER	OPR	OPERABLE
		SIM	SIMILAR	ORD	OVERFLOW ROOF DRAIN
		SK	SINK	ORN	ORNAMENTAL
		SLOT	SLOTTED	ORNA	ORNAMENTAL
		SLV	SLEEVE	OSD	OPEN SIGHT DRAIN
		SNT	SEALANT	OUT	OUTLET
		SP	SOIL PIPE	OVFL	OVERFLOW
		SPEC	SPECIFICATION	OVHD	OVERHEAD
		SPECS	SPECIFICATIONS	OZ	OUNCE
		SPK	SPEAKER		
		SPL	SPECIAL	P	
		SPLR	SPRINKLER	P S/L	PIPE SLEEVE
		SQ	SQUARE	PA	PUBLIC ADDRESS
		SSD	SUB-SOIL DRAIN	PB	PULL BOX
		SSGS	SILICONE STRUCTURAL GLAZING SEALANT	PBD	PARTICLE BOARD
		SSG	SUB-SOIL DRAIN	PCF	POUNDS PER CUBIC FOOT
		SST	STAINLESS STEEL	PCPL	PORTLAND CEMENT PLASTER
		STC	SOUND TRANSMISSION CLASS	PD	PLAZA DRAIN
		STD	STANDARD	PED	PEDESTAL OR PEDESTRIAN
		STG	SEATING	PEDR	PEDESTRIAN
		STGG	STRUCTURAL GLAZING GASKET	PERF	PERFORATE
		STGR	STAGGER	PERIM	PERIMETER
		STIFF	STIFFENER	PERP	PERPENDICULAR
		STL	STEEL	PKG	PARKING
		STM	STEAM	PKWY	PARKWAY
		STOR	STORAGE	PL	PLATE
		STR	STRAIGHT (RE-BARS)	PLAM	PLASTIC LAMINATE
		STRFR	STOREFRONT	PLAS	PLASTER
		STRUC	STRUCTURAL	PLBG	PLUMBING
		STRUCT	STRUCTURAL	PLSTC	PLASTIC
		STW	STORM WATER	PLTF	PLATFORM
		SUPP	SUPPLEMENTARY, SUPPLEMENT	PLYWD	PLYWOOD
		SUR	SURFACE	PNEU	PNEUMATIC
		SURF	SURFACE	PNL	PANEL
		SUSP	SUSPENDED	PNT	PAINT
		SW	SWITCH	POL	POLISH(ED)
		SY	SQUARE YARD	POLYST	POLYSTRENE
		SYM	SYMMETRICAL	PORT	POTABLE
		SYN	SYNTHETIC	POT W	POTABLE WATER
		SYS	SYSTEM(S)	PR	PAIR
				PRCST	PRECAST
		T		PRE	PREFINISHED
		T&G	TOUNGUE AND GROOVE	PREFAB	PREFABRICATED
		TI	TOP	PREFIN	PREFINISHED
		TAN	TANGENT	PRESS	POLYSTYRENE
		TC	TOP OF CURB	PRI	PRIMARY
		TD	TRENCH DRAIN	PRTECN	PROTECTION
		TEL	TELEPHONE	PRTN	PARTITION
		TEMP	TEMPORARY	PSF	POUNDS PER SQUARE FOOT
		TERR	TERRAZZO	PSI	POUNDS PER SQUARE INCH
		THK	THICK	PT	PAINT
		THRESH	THRESHOLD	PTC	POST-TENSIONED CONCRETE
		THRU	THROUGH	PTD	PAINTED
		TKBD	TACKBOARD	PTN	PARTITION
		TLT	TOILET	PVC	POLYVINYL CHLORIDE
		TOC	TOP OF CONCRETE	PVF	POLYVINYLDENE FINISH
		TOL	TOLERANCE	PVG	PAVING
		TOS	TOP OF STEEL	PVMT	PAVEMENT
		TOW	TOP OF WALL	PVT	PRIVATE
		TP	TOP OF PAVEMENT	PWR	POWER
		TPTN	TOILET PARTITION		
		TRAF	TRAFFIC	Q	
		TRANS	TRANSPARENT	QT	QUARRY TILE
		TRAV	TRAVERTINE	QTR	QUARTER
		TRD	TREAD	QTY	QUANTITY
		TRTD	TREATED	QUAL	QUALITY
		TSL	TOP OF SLAB		
		TST	TOP OF STEEL	R	
		TSTAT	THERMOSTAT	RA	RETURN AIR
		TV	TELEVISION	RAD	RADIUS
		TYP	TYPICAL	RADN	RADIANT
				RB	RUBBER BASE
		U		RBT	RABBIT
		UL	UNDERWRITERS' LABORATORIES	RCP	REFLECTED CEILING PLAN
		UNDRLAY	UNDERLAYMENT	RD	ROOF DRAIN
		UNO	UNLESS NOTED OTHERWISE	RDL	ROOF DRAIN LEADER
		USS	UNITED STATES STANDARD	RDR	READER
		UTIL	UTILITY	REBAR	REINFORCING BAR
				REC	RECEIVER
		V	VACUUM	RECEP	RECEPTACLE
		VAC	VACUUM	RECES	RECESSED
		VAR	VARIES	RECP	RECEPTACLE
		VB	VAPOR BARRIER	RED	REDUCER
		VBC	VINYL BASE (COVERED)	REF	REFERENCE)
		VBS	VINYL BASE (STRAIGHT)	REFL	REFLECTED
		VCT	VINYL COMPOSITION TILE	REFR	REFRIGERATOR
		VEH	VEHICLE	REG	REGULAR
		VENT	VENTILATE	REINF	REINFORCED(D)(ING)(MENT)
		VERT	VERTICAL	REM	REMOVE
		VEST	VESTIBULE	REQ	REQUIRE
		VIF	VERIFY IN FIELD	REQD	REQUIRED
		VIT	VITREOUS	RESIL	RESILIENT
		VLT	VAULT	RESIS	RESIST(ANT)(IVE)
		VOL	VOLUME	RET	RETURN OR RETAINING
		VP	VENT PIPE	REV	REVERSE OR REVISE OR REVISION
		VR	VAPOR RETARDER	REV DR	REVOLVING DOOR
		VS	VENT STACK	RF	ROOF
		VWC	VINYL WALL COVERING	RFG	ROOFING
				RGH	ROUGH
				RGR	REGISTER
		W			

GRAPHIC SYMBOLS (CONT.)

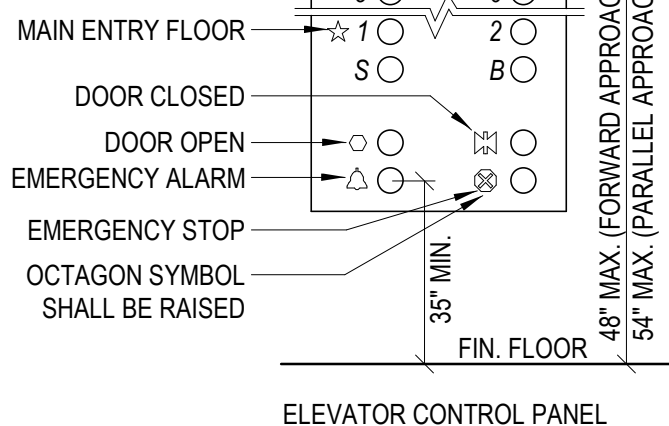
SECTION INDICATIONS

	ACOUSTICAL CEILING TILE
	ALUMINUM
	BRICK
	CARPET
	CONCRETE
	CONCRETE MASONRY UNIT
	CUT STONE
	EARTH
	FABRIC WRAPPED PANEL
	GLASS
	GRAVEL
	GYPSUM PLASTER
	INSULATION (LOOSE OR BATT)
	INSULATION (RIGID)
	METAL
	PLASTIC
	PLYWOOD
	PRE-CAST PANELS
	SAND OR GROUT
	STONE
	WOOD (FINISHED)
	WOOD (CONTINUOUS MEMBER)
	WOOD (INTERRUPTED MEMBER)

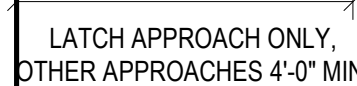
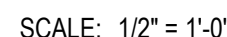
REFLECTED CEILING

	ACOUSTICAL CEILING AND
--	------------------------

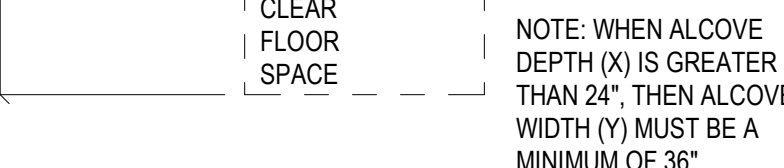
SCALE: VARIES



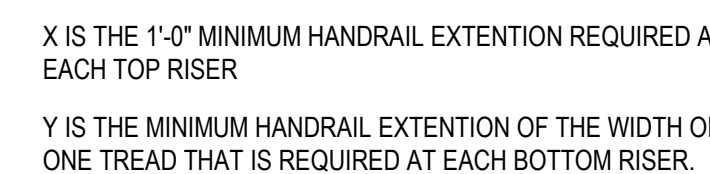
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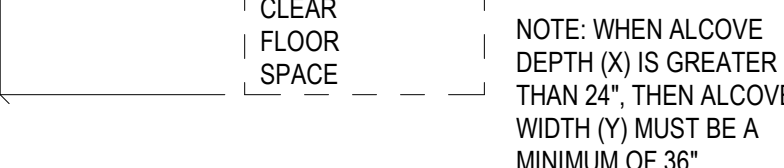
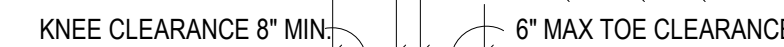
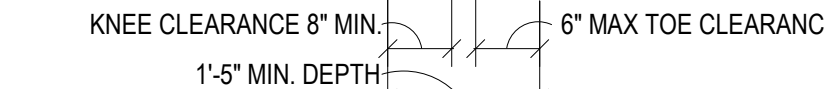
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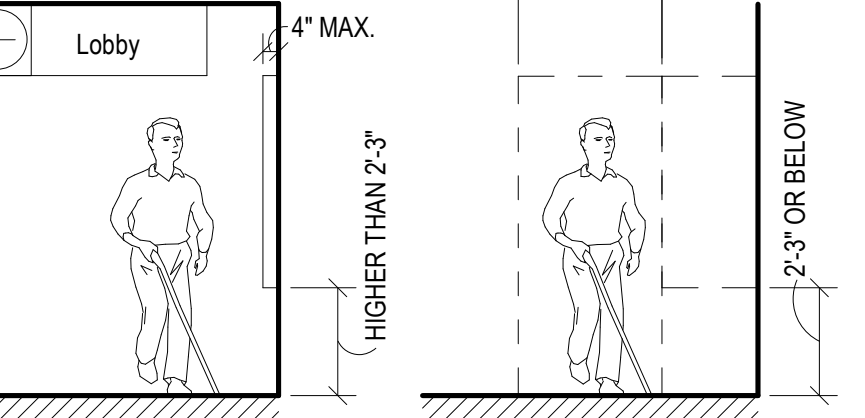
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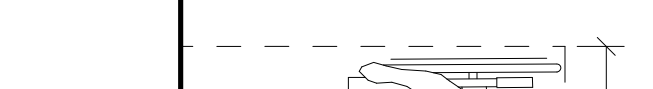
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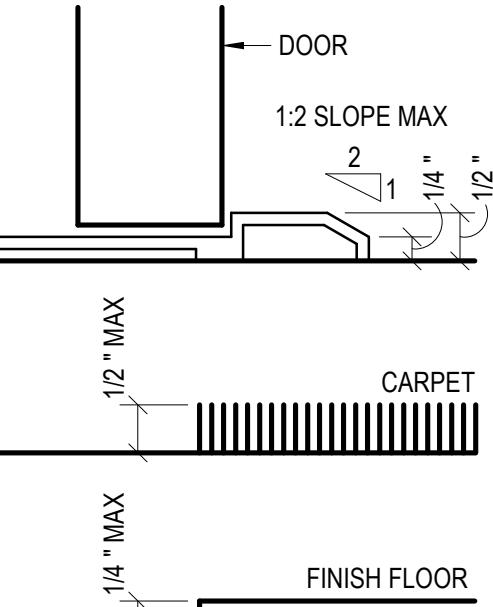
SCALE: 1/2" = 1'-0"



SCALE: 1/4" = 1'-0"



SCALE: 1/2" = 1'-0"



SCALE: FULL



LANDMARK
CONSULTANTS, INC.



MARTIN/MARTIN
CONSULTING ENGINEERS

100

DESIGNWORKSHOP



RCRBD
Record Set
TC
07/10/2021

Seal / Signature



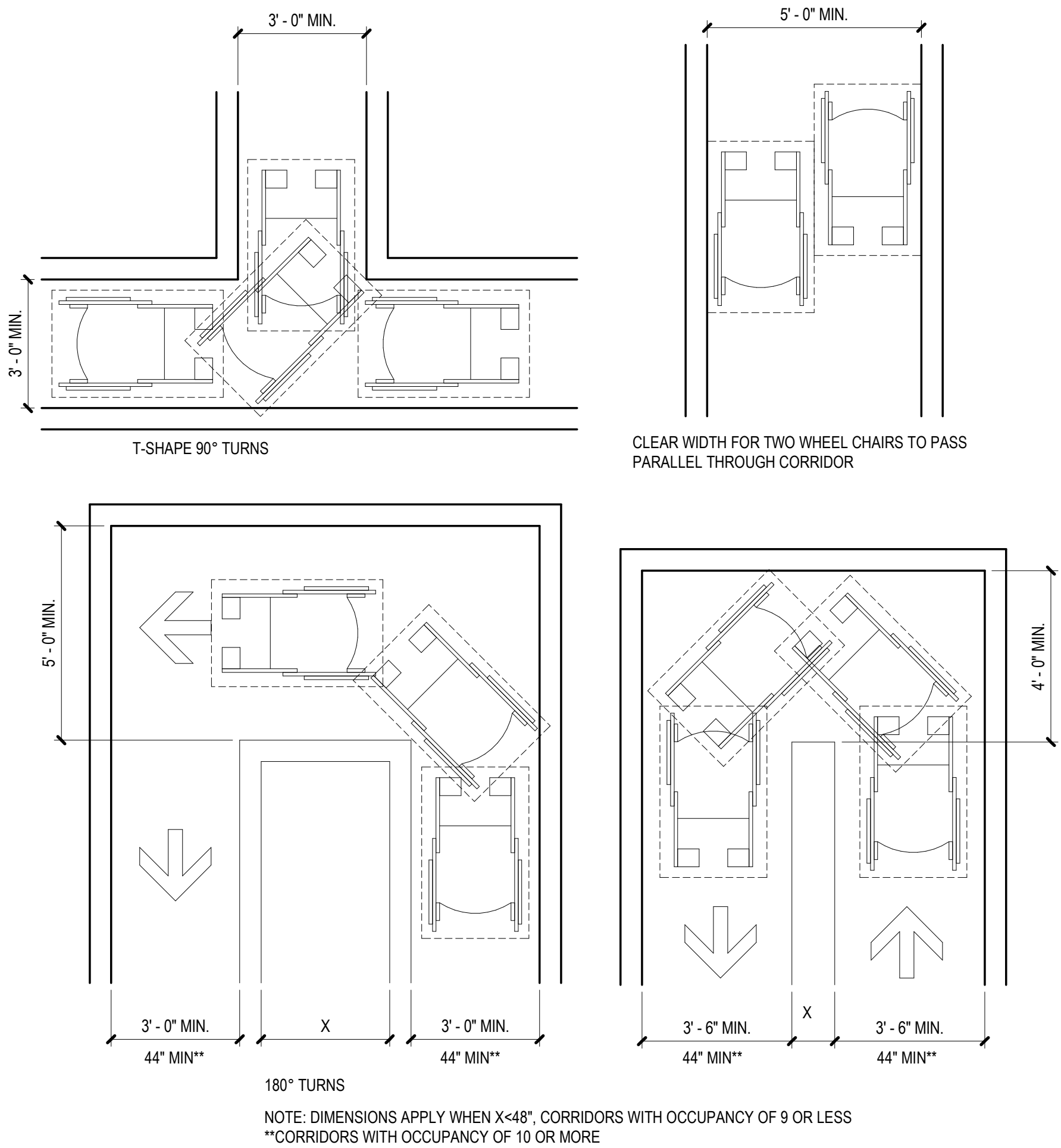
Project Number

003.7835.000

Description
ADA REQUIREMENTS & DETAILS

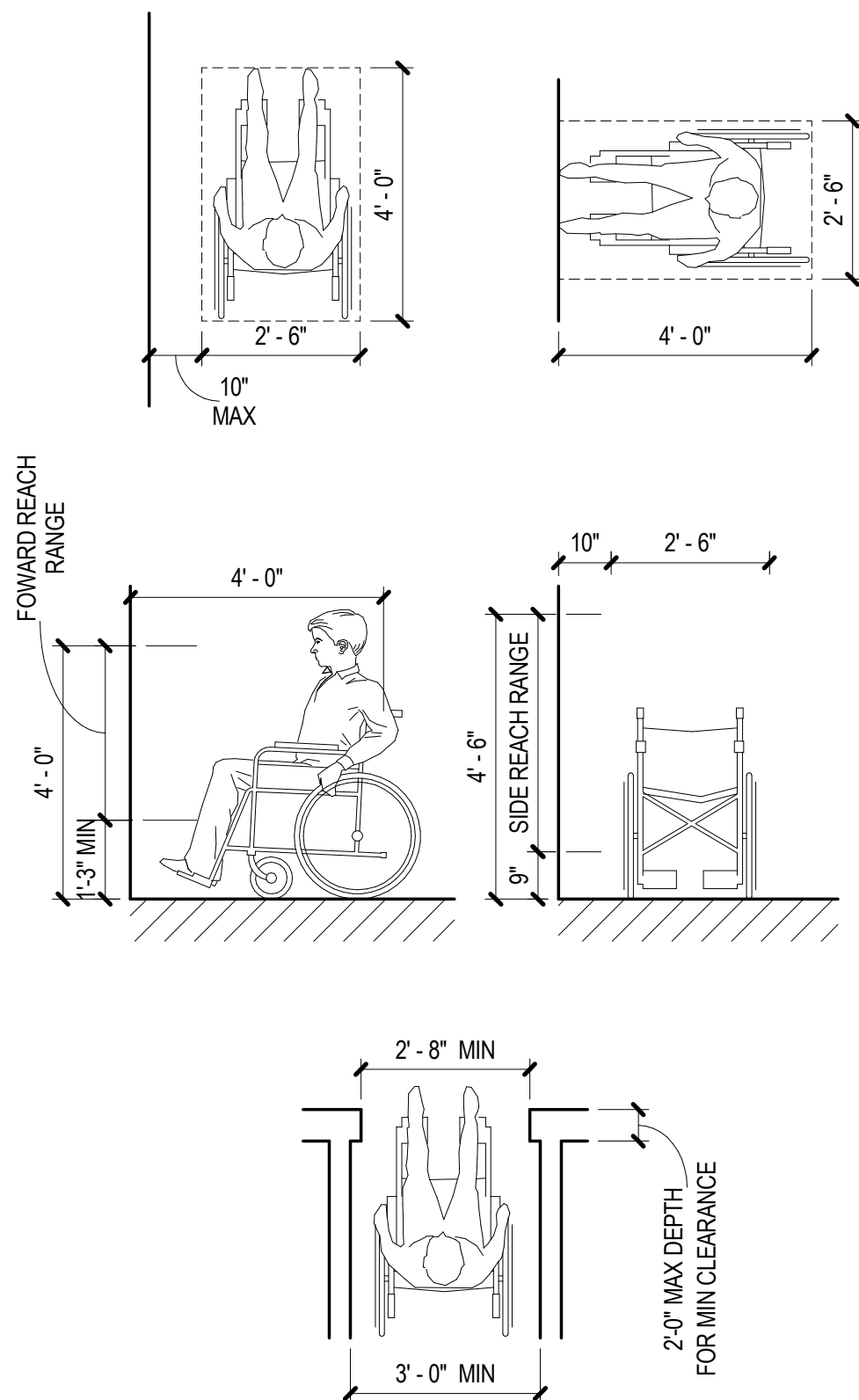
Scale

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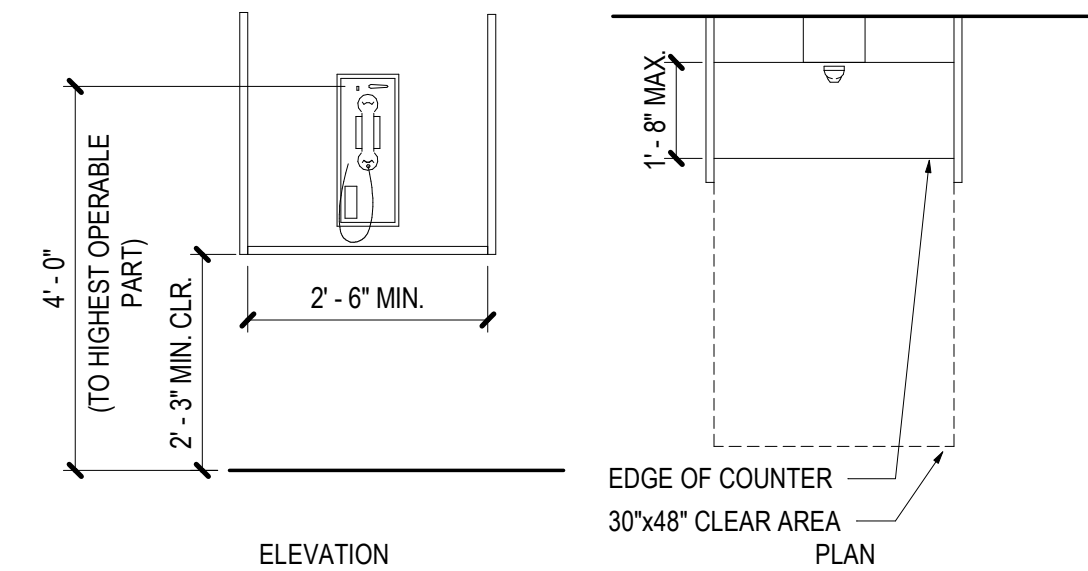
6 MANEUVERING REQUIREMENTS

SCALE: 3/8" = 1'-0"



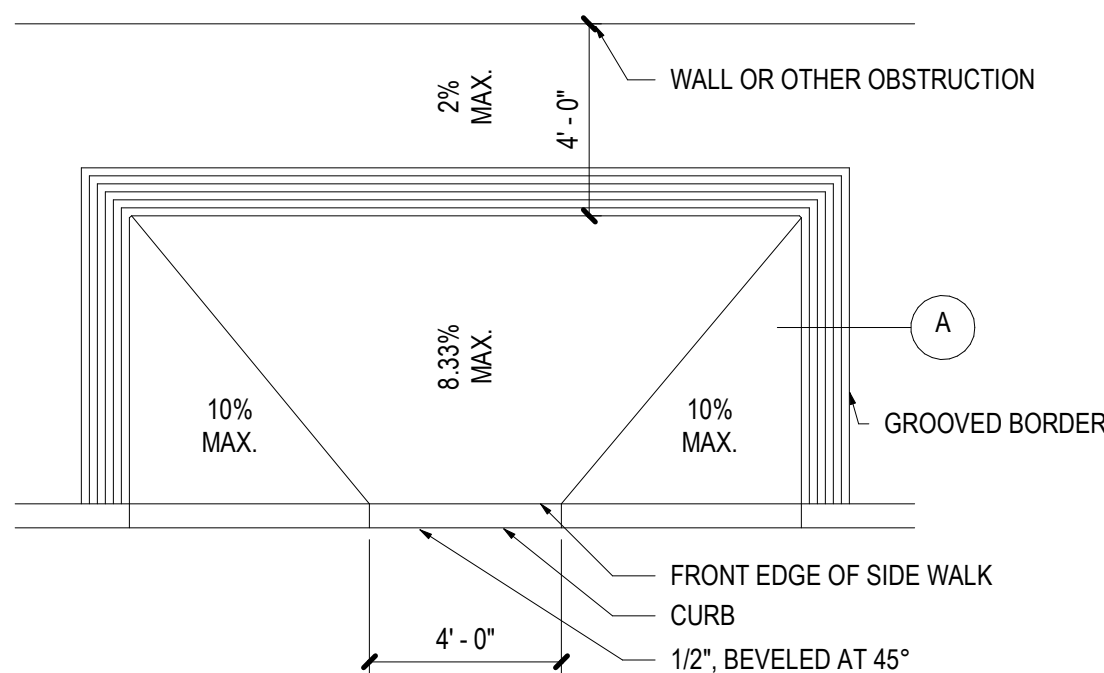
1 REACH RANGES

SCALE: 3/8" = 1'-0"



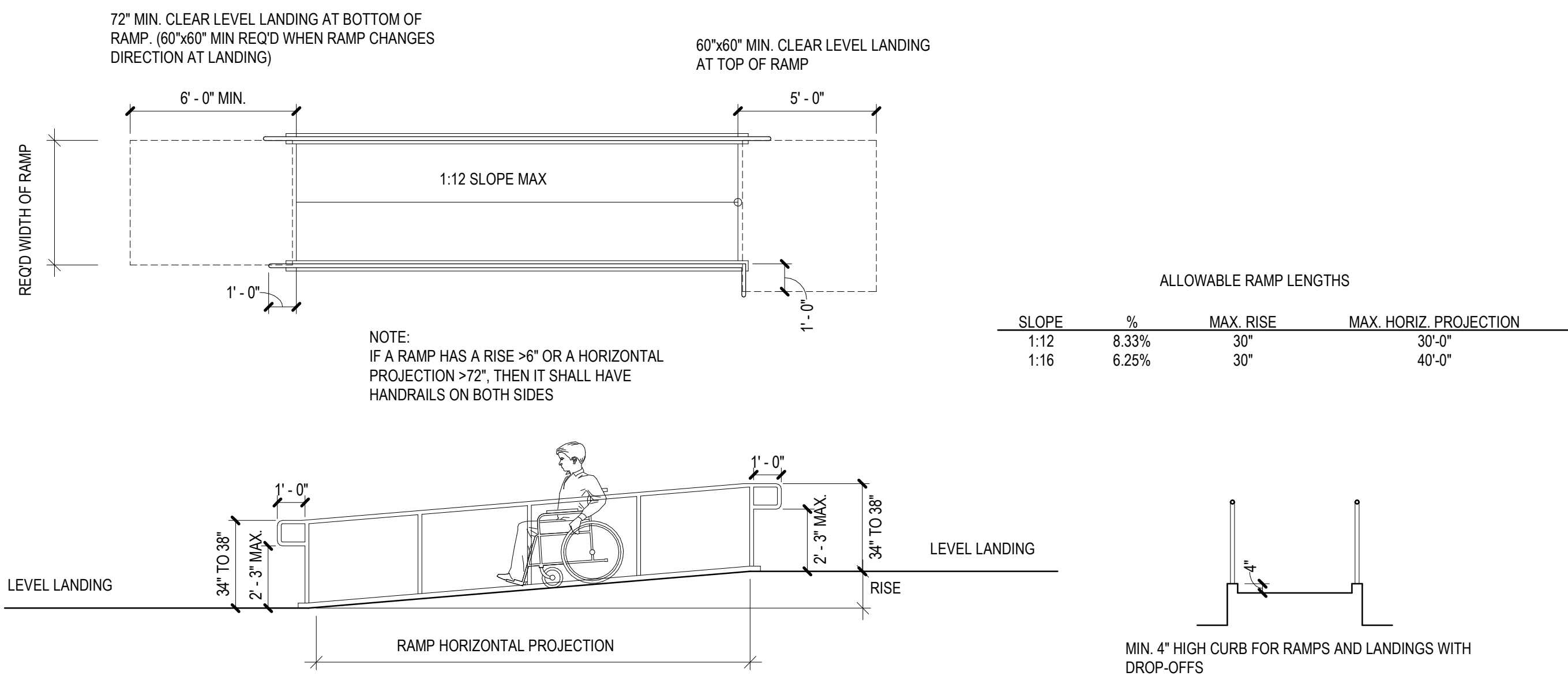
2 TELEPHONE

SCALE: 1/2" = 1'-0"



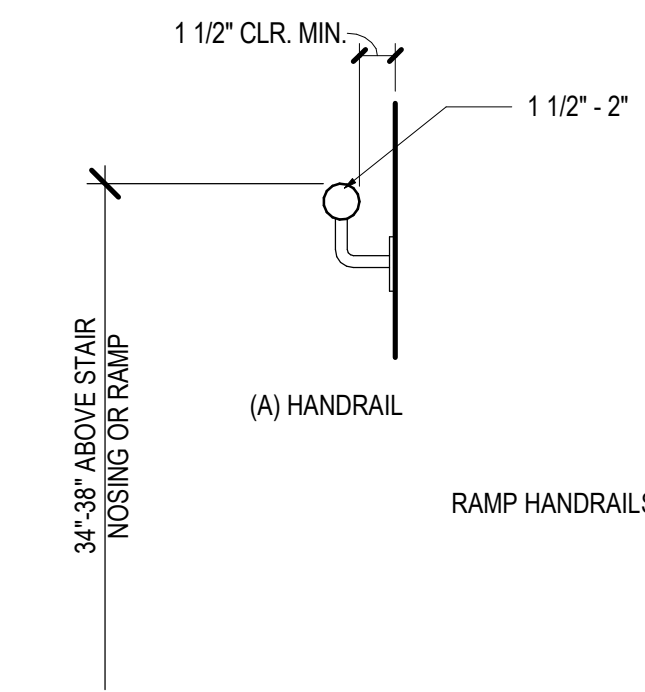
3 CURB CUT

SCALE: 1/4" = 1'-0"



8 RAMPS

SCALE: 1/4" = 1'-0"



4 HANDRAIL @ RAMP

SCALE: 1 1/2" = 1'-0"

Steamboat
ALTERRA east west partners
MOUNTAIN COMPANY

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engineers
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United States
Tel 303.421.6655

Date	Description
2021.05.19	BP3: PROMENADE - ISSUE FOR PERMIT

RCRBD
Record Set
TC
07/10/2021

Seal / Signature

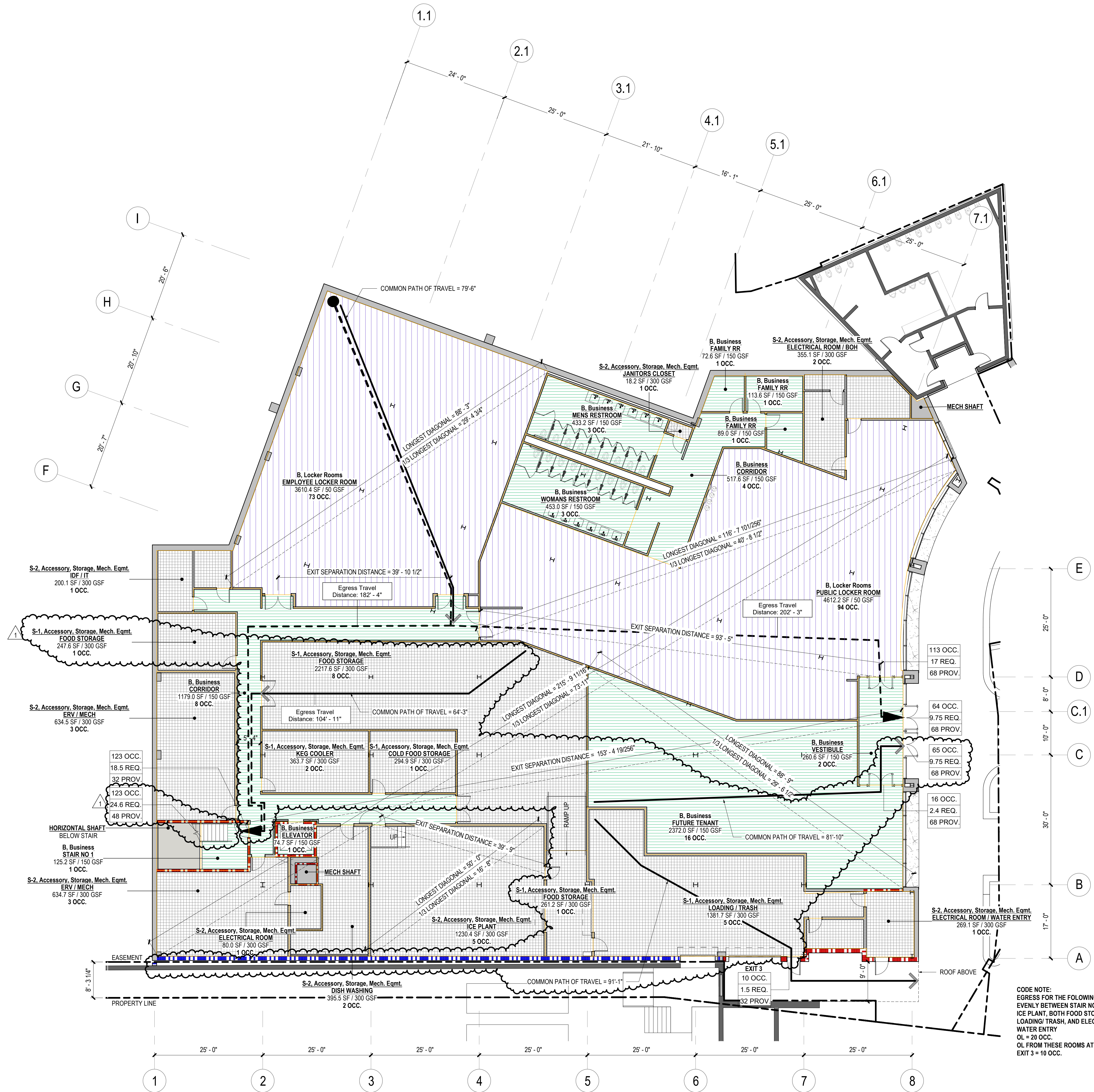
Project Name: SSRC | BASE AREA IMPROVEMENTS
Project Number: 003.7835.000
Description: ADA REQUIREMENTS & DETAILS

Scale: As indicated

1A-G1.120

CODE ANALYSIS CONTINUED

402.4.3	Exterior Structural Members	where a horizontal separation of 20 feet or more is provided, wood columns conforming with section 2304.11 shall be permitted externally. If a building of type IV construction has a separation distance of less than 20 feet, the wood columns and arches are to be located on the interior side of the exterior wall.	Future phase building. Wood structure is more than 20 feet from property line. Arch where not the structure is to be located within the interior of the exterior rated 2-hour wall.
508.2304.11		in this table for min. dist. of heavy timber structural members	to be applied for Future Plaza Building
602.4.2	Cross Laminated Timber in exterior walls	Cross laminated timber complying with Section 2303.1.4 shall be permitted within exterior wall assemblies not less than 6 inches in thickness with a 4-hour rating or less, provided the exterior surface of the cross laminated timber is protected by one of the following:	NA - no CLT proposed in exterior walls at future Plaza Building
706.705.8	5 Allowable Area of Openings (Based on Fire Separation Distance):		
706.705.8.1	A. Based on Table 705.8		
		Distance	Unprotected & Sprinklered (A-F)
		0'-0"	0'-0"
		0'-0"	15'-0"
		0'-0"	25'-0"
		0'-0"	35'-0"
		0'-0"	45'-0"
		0'-0"	55'-0"
		0'-0"	65'-0"
		0'-0"	75'-0"
		0'-0"	85'-0"
		0'-0"	95'-0"
		0'-0"	105'-0"
		0'-0"	115'-0"
		0'-0"	125'-0"
		0'-0"	135'-0"
		0'-0"	145'-0"
		0'-0"	155'-0"
		0'-0"	165'-0"
		0'-0"	175'-0"
		0'-0"	185'-0"
		0'-0"	195'-0"
		0'-0"	205'-0"
		0'-0"	215'-0"
		0'-0"	225'-0"
		0'-0"	235'-0"
		0'-0"	245'-0"
		0'-0"	255'-0"
		0'-0"	265'-0"
		0'-0"	275'-0"
		0'-0"	285'-0"
		0'-0"	295'-0"
		0'-0"	305'-0"
		0'-0"	315'-0"
		0'-0"	325'-0"
		0'-0"	335'-0"
		0'-0"	345'-0"
		0'-0"	355'-0"
		0'-0"	365'-0"
		0'-0"	375'-0"
		0'-0"	385'-0"
		0'-0"	395'-0"
		0'-0"	405'-0"
		0'-0"	415'-0"
		0'-0"	425'-0"
		0'-0"	435'-0"
		0'-0"	445'-0"
		0'-0"	455'-0"
		0'-0"	465'-0"
		0'-0"	475'-0"
		0'-0"	485'-0"
		0'-0"	495'-0"
		0'-0"	505'-0"
		0'-0"	515'-0"
		0'-0"	525'-0"
		0'-0"	535'-0"
		0'-0"	545'-0"
		0'-0"	555'-0"
		0'-0"	565'-0"
		0'-0"	575'-0"
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		0'-0"	595'-0"
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		0'-0"	625'-0"
		0'-0"	635'-0"
		0'-0"	645'-0"
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		0'-0"	665'-0"
		0'-0"	675'-0"
		0'-0"	685'-0"
		0'-0"	695'-0"
		0'-0"	705'-0"
		0'-0"	715'-0"
		0'-0"	725'-0"
		0'-0"	735'-0"
		0'-0"	745'-0"
		0'-0"	755'-0"
		0'-0"	765'-0"
		0'-0"	775'-0"
		0'-0"	785'-0"
		0'-0"	795'-0"
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		0'-0"	815'-0"
		0'-0"	825'-0"
		0'-0"	835'-0"
		0'-0"	845'-0"
		0'-0"	855'-0"
		0'-0"	865'-0"
		0'-0"	875'-0"
		0'-0"	885'-0"
		0'-0"	895'-0"
		0'-0"	905'-0"
		0'-0"	915'-0"
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		0'-0"	985'-0"
		0'-0"	995'-0"
		0'-0"	1005'-0"
		0'-0"	1015'-0"
		0'-0"	1025'-0"
		0'-0"	1035'-0"
		0'-0"	1045'-0"
		0'-0"	1055'-0"
		0'-0"	1065'-0"
		0'-0"	1075'-0"
		0'-0"	1085'-0"
		0'-0"	1095'-0"
		0'-0"	1105'-0"
		0'-0"	1115'-0"
		0'-0"	1125'-0"
		0'-0"	1135'-0"
		0'-0"	1145'-0"
		0'-0"	1155'-0"
		0'-0"	1165'-0"
		0'-0"	1175'-0"
		0'-0"	1185'-0"
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		0'-0"	1205'-0"
		0'-0"	1215'-0"
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		0'-0"	1235'-0"
		0'-0"	1245'-0"
		0'-0"	1255'-0"
		0'-0"	1265'-0"
		0'-0"	1275'-0"
		0'-0"	1285'-0"
		0'-0"	1295'-0"
		0'-0"	1305'-0"
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		0'-0"	3865'-0"



CODE NOTE:
EGRESS FOR THE FOLLOWING ROOMS IS SPLIT
EVENLY BETWEEN STAIR NO 1 AND EXIT 3
ICE PLANT, BOTH FOOD STORAGE ROOMS,
LOADING/ TRASH, AND ELECTRICAL ROOM/
WATER ENTRY
OL = 20 OCC.
OL FROM THESE ROOMS AT STAIR NO 1 AND
EXIT 3 = 10 OCC.

GRAPHIC SYMBOLS LEGEND		EGRESS REQUIREMENTS - LEVEL 00	
	EXIT ACCESS TRAVEL DISTANCE	TOTAL GROSS AREA OF TENANT - ENTIRE LEVEL:	APPROX. 22,642 SF
	COMMON PATH OF TRAVEL	TOTAL AREA IN SCOPE:	APPROX. 23,839 SF
	SECURITY LOCATIONS	TENANT OCCUPANT LOAD CALCULATIONS:	IBC TABLE 1004.1.2
	OCCUPANCY, FUNCTION OF SPACE	ASSEMBLY (5 NSF/PERSON):	0 OCCUPANTS
	1HR FIRE BARRIER / 20MIN OPENINGS	STORAGE MECHANICAL:	37 OCCUPANTS
	1HR FIRE BARRIER / 45MIN OPENINGS	BUSINESS (150 GSF/PERSON): 8,461 GSF	4 OCCUPANTS
	2HR FIRE BARRIER / 90MIN OPENINGS	LOCKER ROOMS (50 GSF/PERSON): 8,281 GSF	167 OCCUPANTS
	3HR FIRE BARRIER	TOTAL:	246 OCCUPANTS
FUNCTION LEGEND (OCCUPANT LOAD)		NOTE: OCCUPANT LOADS HAVE BEEN CALCULATED BASED ON ROOM LAYOUT AND NOT COMBINED AREAS.	
	ASSEMBLY, UNCONC.	EGRESS WIDTH REQUIREMENTS:	IBC 1005.3.2
	ASSEMBLY, CONC.	OTHER EGRESS COMPONENTS	REQUIRED (15 INOCCUPANT):
	BUSINESS AREA	PROVIDED AT EXIT STAIR DOORS:	100 INCHES
	KITCHENS, COMMERCIAL	EXIT STAIR WIDTH	REQUIRED (2 INOCCUPANT):
	ACCESS, STORAGE, MECHANICAL	PROVIDED AT EXIT STAIRS	124 INCHES
	LOCKER ROOM		
GENERAL NOTES		IBC 1020.2	44 INCHES
SHEET NOTES		MINIMUM WIDTH OF EGRESS CORRIDOR REQUIRED:	63 INCHES
1. EGRESS ALLOWED IN DIRECTION OF EGRESS TRAVEL.		IBC TABLE 1006.2.1	2 EXITS
		NUMBER OF EXITS PROVIDED:	3 EXITS
		MAXIMUM LENGTH OF EGRESS TRAVEL:	IBC TABLE 1017.2 FOOTNOTE C
			300 FEET (BUSINESS)
			250 FEET (ASSEMBLY)
			100 FEET (ASSEMBLY)
		MAXIMUM COMMON PATH OF TRAVEL:	IBC 1006.2.1 FOOTNOTE A
			100 FEET (BUSINESS)
			75 FEET (ASSEMBLY)
		MAXIMUM DEAD END CORRIDOR:	IBC 1020.4 EXCEPTION 2
			50 FEET
		REMOVEDNESS OF EXITS:	
		REMOVEDNESS OF EXITS	SEE PLAN

LEVEL 00						
OCCUPANCY TOTALS	'A'	'B'	'S'			
	0	209	37			
FIXTURE REQUIREMENTS						
	REQUIRED 'A'	REQUIRED 'B'	REQUIRED 'S'	TOTAL REQUIRED	PROVIDED	
WATER CLOSETS						
MEN	0/125 = 0	2 + (54.5/50) = 3.09	18.5/100 = .185	3.275	10.5	
WOMEN	0/65 = 0	2 + (54.5/50) = 3.09	18.5/100 = .185	3.275	10.5	
LAVATORIES						
MEN	0/200 = 0	2 + (29/80) = 2.3625	18.5/100 = .185	2.5475	7.5	
WOMEN	0/200 = 0	2 + (29/80) = 2.3625	18.5/100 = .185	2.5475	7.5	
DRINKING FOUNTAINS	0/500 = 0	209/100 = 2.09	37/1,000 = .037	2.127	4	
SERVICE SINK				1	1	

*UNSEX RESTROOM WATER CLOSET AND LAVATORY COUNTS HAVE BEEN APPLIED AS .5 PER EACH SEX.

Date	Description
2021.05.19	BP3: PROMENADE - ISSUE FOR BID AND PERMIT
2021.07.02	BP3: PROMENADE - BULLETIN 03 - PERMIT RESPONSE

Seal / Signature



Project Name

SSRC | BASE AREA
IMPROVEMENTS

Project Number

003.7835.000

Description

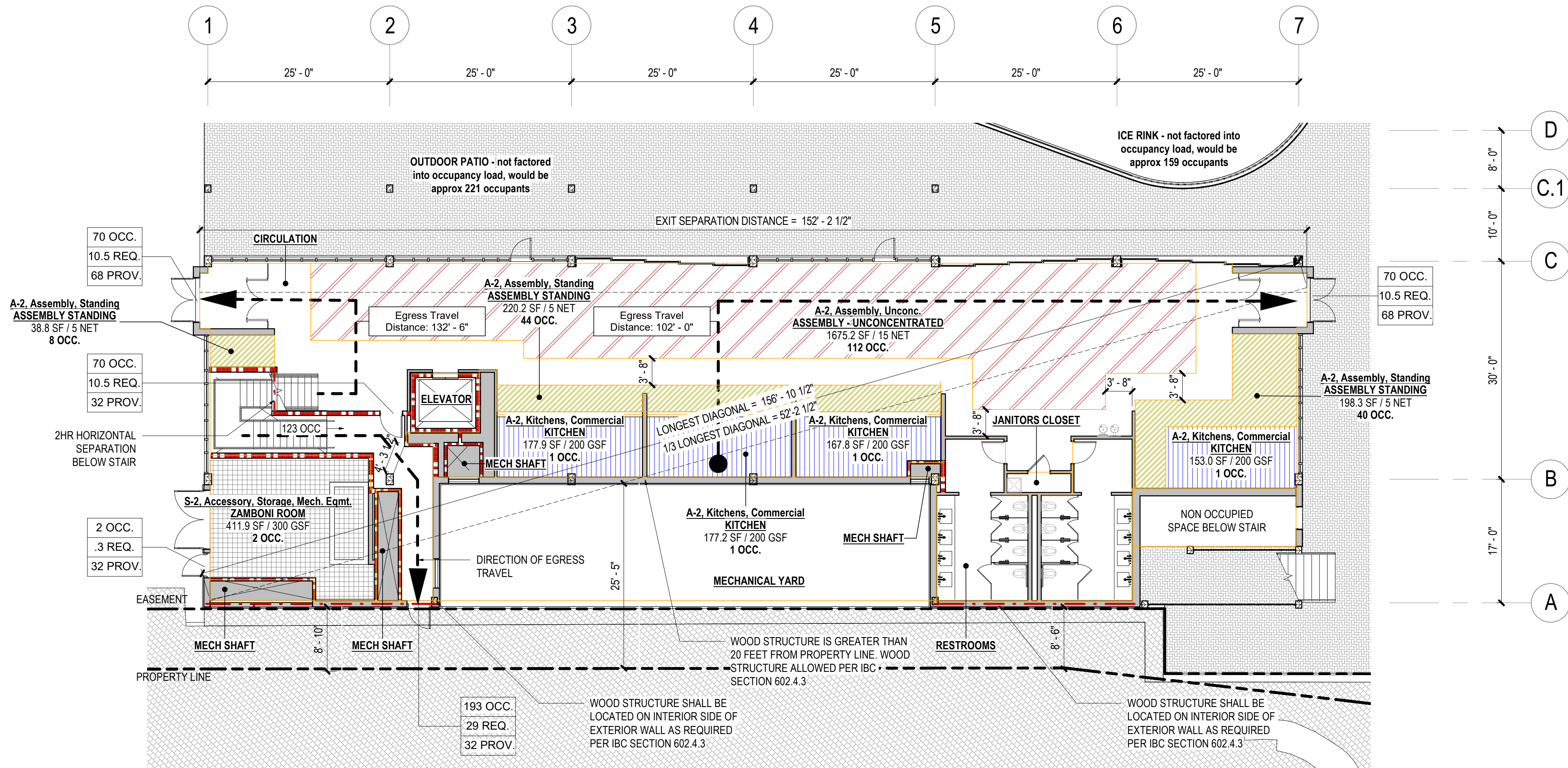
EGRESS & OCCUPANCY PLAN -
LEVEL 00

Scale

As indicated

01 EGRESS & OCCUPANCY PLAN - LEVEL 01

SCALE: 3/32" = 1'-0"



GRAPHIC SYMBOLS LEGEND		EGRESS REQUIREMENTS - LEVEL 01	
	EXIT ACCESS TRAVEL DISTANCE	TOTAL GROSS AREA OF TENANT - ENTIRE LEVEL:	APPROX. 5,194 SF
	COMMON PATH OF TRAVEL	TOTAL AREA IN SCOPE:	APPROX. 6,204 SF
	SECURITY LOCATIONS	TENANT OCCUPANT LOAD CALCULATIONS:	IBC TABLE 1004.1.2
X.X. FUNCTION	OCCUPANCY, FUNCTION OF SPACE	ASSEMBLY (5 NSF/PERSON): 457.3 NSF	92 OCCUPANTS
	1HR FIRE BARRIER / 20MIN OPENINGS	ASSEMBLY (15 NSF/PERSON): 1,675.2 NSF	112 OCCUPANTS
	2HR FIRE BARRIER / 45MIN OPENINGS	STORAGE/MECHANICAL (300 GSF/PERSON): 411.5 GSF	2 OCCUPANTS
	3HR FIRE BARRIER / 90MIN OPENINGS	BUSINESS (150 GSF/PERSON):	0 OCCUPANTS
		COMMERCIAL KITCHEN (200 GSF/PERSON): 675.9 GSF	4 OCCUPANTS
		LOCKER ROOMS (50 GSF/PERSON):	0 OCCUPANTS
		TOTAL:	210 OCCUPANTS
		NOTE: OCCUPANT LOADS HAVE BEEN CALCULATED BASED ON ROOM LAYOUT AND NOT COMBINED AREAS.	
FUNCTION LEGEND (OCCUPANT LOAD)		EGRESS WIDTH REQUIREMENTS:	IBC 1005.3.2
	ASSEMBLY, UNCONC.	OTHER EGRESS COMPONENTS REQUIRED (15 INOCCUPANT):	31.5 INCHES
	ASSEMBLY, CONC.	PROVIDED AT EXIT STAIR DOORS:	170 INCHES
	BUSINESS AREA	EXIT STAIR WIDTH REQUIRED (2 INOCCUPANT):	IBC 1005.3.1
	KITCHENS, COMMERCIAL	PROVIDED AT EXIT STAIRS:	NA
	ACCESS, STORAGE, MECHANICAL		
	LOCKER ROOM		
GENERAL NOTES		MINIMUM WIDTH OF EGRESS CORRIDOR REQUIRED:	IBC 1020.2
A. WORK AREAS TONED IN LIGHT & DARK GRAY N.I.C.		MINIMUM WIDTH OF EGRESS CORRIDOR PROVIDED:	44 INCHES
SHEET NOTES		MINIMUM NUMBER OF EXITS REQUIRED:	IBC TABLE 1006.2.1
1. EGRESS ALLOWED IN DIRECTION OF EGRESS TRAVEL.		NUMBER OF EXITS PROVIDED:	2 EXITS
NUMBER OF OCCUPANTS		MAXIMUM LENGTH OF EGRESS TRAVEL:	IBC TABLE 1017.2 FOOTNOTE C
WIDTH REQUIRED IN INCHES			300 FEET (BUSINESS)
WIDTH PROVIDED IN INCHES			250 FEET (ASSEMBLY)
			400 FEET (S-2)
		MAXIMUM COMMON PATH OF TRAVEL:	IBC 1006.2.1 FOOTNOTE A
			100 FEET (BUSINESS)
			100 FEET (ASSEMBLY)
			75 FEET (S-2)
		MAXIMUM DEAD END CORRIDOR:	IBC 1020.4 EXCEPTION 2
			50 FEET
		REMOVEDNESS OF EXITS:	SEE PLAN
		LONGEST DIAGONAL REMOVEDNESS OF EXITS:	

LEVEL 01						
OCCUPANCY TOTALS	'A'	'B'	'S'			
	208	0	2			
FIXTURE REQUIREMENTS						
	REQUIRED 'A'	REQUIRED 'B'	REQUIRED 'S'	TOTAL REQUIRED	PROVIDED	
WATER CLOSETS	MEN 104/125 = .832	$X + (X/50) = 0$	1/100 = .02	.852	4	
	WOMEN 104/65 = 1.6	$X + (X/50) = 0$	1/100 = .02	1.62	4	
LAVATORIES	MEN 104/200 = .52	$X + (X/80) = 0$	1/100 = .02	.54	4	
	WOMEN 104/200 = .52	$X + (X/80) = 0$	1/100 = .02	.54	4	
DRINKING FOUNTAINS	208/500 = .416	$X / 100 = 0$	2/1,000 = .002	.418	2	
SERVICE SINK				1	1	

SHEET NOTES



ALTRERRA east west partners
MOUNTAIN COMPANY

2305 Mount Werner Circle
Steamboat Springs, CO 80487

Gensler

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Suite 150
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DESIGNWORKSHOP
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12499 West Colfax Ave.
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United States
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14143 Denver West Pkwy
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United States
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GENERAL NOTES

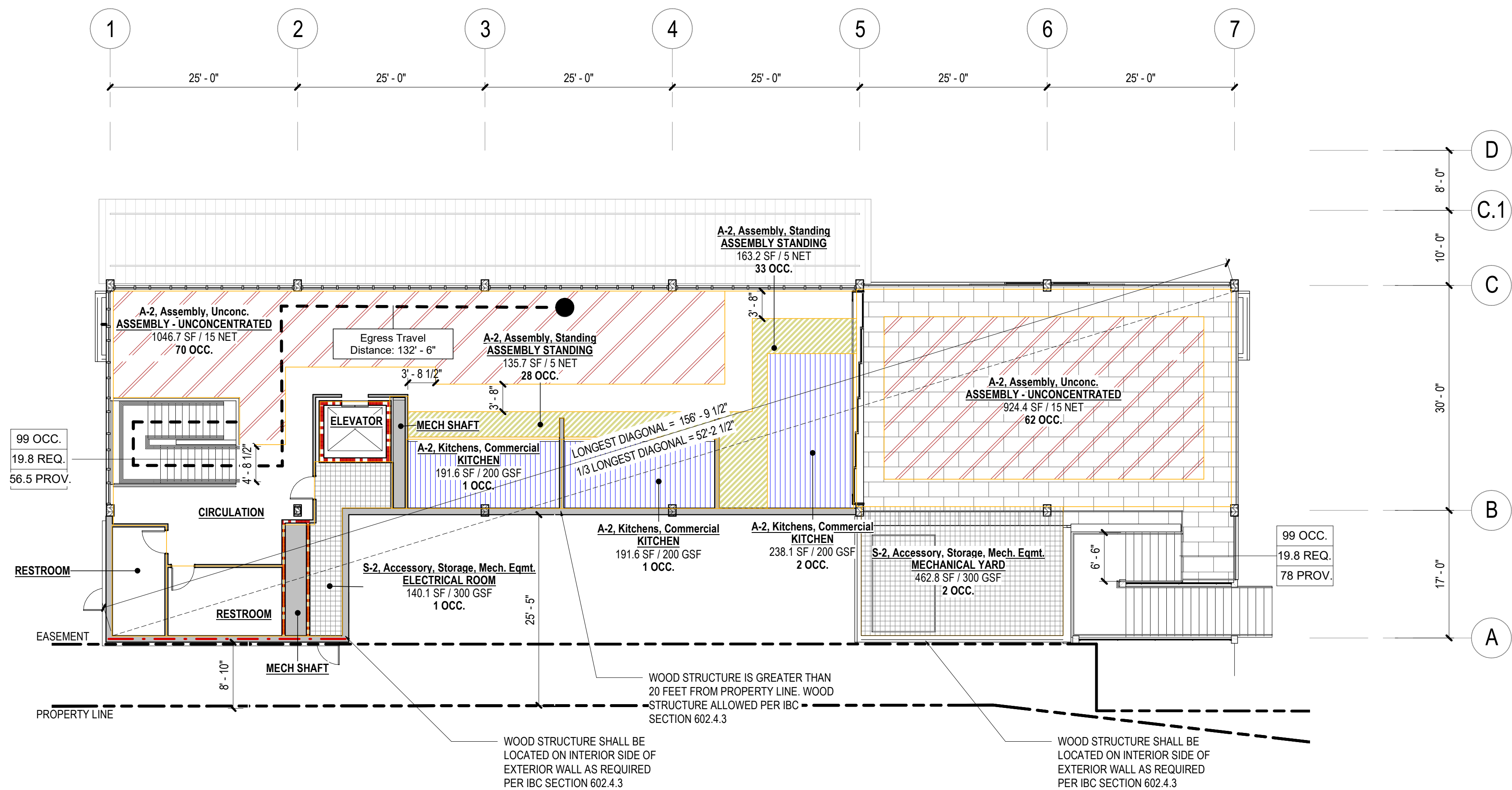
A. THE PLAZA BUILDING LEVEL 01 AND LEVEL 02 IS FUTURE NIC. IT IS BEING SHOWN TO CLARIFY THE CURRENT INTENT OF THE FINAL PROJECT.

GRAPHIC SYMBOLS LEGEND		EGRESS REQUIREMENTS - LEVEL 02	
	EXIT ACCESS TRAVEL DISTANCE	TOTAL GROSS AREA OF TENANT - ENTIRE LEVEL:	APPROX. 4,162 SF
	COMMON PATH OF TRAVEL	TOTAL AREA IN SCOPE:	APPROX. 6,176 SF
	SECURITY LOCATIONS	TENANT OCCUPANT LOAD CALCULATIONS:	IBC TABLE 1004.1.2
X.X. FUNCTION	OCCUPANCY, FUNCTION OF SPACE	ASSEMBLY (5 NSF/PERSON): 298.9 NSF	61 OCCUPANTS
	1HR FIRE BARRIER / 20MIN OPENINGS	ASSEMBLY (15 NSF/PERSON): 1,971.1 NSF	132 OCCUPANTS
	2HR FIRE BARRIER / 45MIN OPENINGS	STORAGE/MECHANICAL (300 GSF/PERSON): 622.9 GSF	3 OCCUPANTS
	3HR FIRE BARRIER / 90MIN OPENINGS	BUSINESS (100 GSF/PERSON):	0 OCCUPANTS
		COMMERCIAL KITCHEN (200 GSF/PERSON): 621.3 GSF	4 OCCUPANTS
		LOCKER ROOMS (50 GSF/PERSON):	0 OCCUPANTS
		TOTAL:	200 OCCUPANTS
		NOTE: OCCUPANT LOADS HAVE BEEN CALCULATED BASED ON ROOM LAYOUT AND NOT COMBINED AREAS.	
FUNCTION LEGEND (OCCUPANT LOAD)		EGRESS WIDTH REQUIREMENTS:	IBC 1005.3.2
	ASSEMBLY, UNCONC.	OTHER EGRESS COMPONENTS REQUIRED (15 INOCCUPANT):	30 INCHES
	ASSEMBLY, CONC.	PROVIDED AT EXIT STAIR DOORS:	90 INCHES
	BUSINESS AREA	EXIT STAIR WIDTH REQUIRED (2 INOCCUPANT):	IBC 1005.3.1
	KITCHENS, COMMERCIAL	PROVIDED AT EXIT STAIRS:	40 INCHES
	ACCESS, STORAGE, MECHANICAL		134.5 INCHES
	LOCKER ROOM		
GENERAL NOTES		MINIMUM WIDTH OF EGRESS CORRIDOR REQUIRED:	IBC 1020.2
A. WORK AREAS TONED IN LIGHT & DARK GRAY N.I.C.		MINIMUM WIDTH OF EGRESS CORRIDOR PROVIDED:	NA
SHEET NOTES		MINIMUM NUMBER OF EXITS REQUIRED:	IBC TABLE 1006.2.1
1. EGRESS ALLOWED IN DIRECTION OF EGRESS TRAVEL.		NUMBER OF EXITS PROVIDED:	2 EXITS
NUMBER OF OCCUPANTS		MAXIMUM LENGTH OF EGRESS TRAVEL:	IBC TABLE 1017.2 FOOTNOTE C
WIDTH REQUIRED IN INCHES			300 FEET (BUSINESS)
WIDTH PROVIDED IN INCHES			250 FEET (ASSEMBLY)
			400 FEET (S-2)
		MAXIMUM COMMON PATH OF TRAVEL:	IBC 1006.2.1 FOOTNOTE A
			100 FEET (BUSINESS)
			100 FEET (ASSEMBLY)
			75 FEET (S-2)
		MAXIMUM DEAD END CORRIDOR:	IBC 1020.4 EXCEPTION 2
			50 FEET
		REMOVEDNESS OF EXITS:	SEE PLAN
		LONGEST DIAGONAL REMOVEDNESS OF EXITS:	

LEVEL 02						
OCCUPANCY TOTALS	'A'	'B'	'S'			
	197	0	3			
FIXTURE REQUIREMENTS						
	REQUIRED 'A'	REQUIRED 'B'	REQUIRED 'S'	TOTAL REQUIRED	PROVIDED	
WATER CLOSETS	MEN 98.5/125 = .788	$X + (X/50) = 0$	1.5/100 = .015	.8	1	
	WOMEN 98.5/65 = 1.51	$X + (X/50) = 0$	1.5/100 = .015	1.53	1	
LAVATORIES	MEN 98.5/200 = .49	$X + (X/80) = 0$	1.5/100 = .015	.50	1	
	WOMEN 98.5/200 = .49	$X + (X/80) = 0$	1.5/100 = .015	.50	1	
DRINKING FOUNTAINS	197/500 = .394	$X / 100 = 0$	3/1,000 = .003	.397	0	
SERVICE SINK				1	1	

02 EGRESS & OCCUPANCY PLAN - LEVEL 02

SCALE: 3/32" = 1'-0"



Seal / Signature



Project Name: SSRC | BASE AREA IMPROVEMENTS
Project Number: 003.7835.000
Date: 05.19.2021

SSRC | BASE AREA IMPROVEMENTS

Project Number

003.7835.000

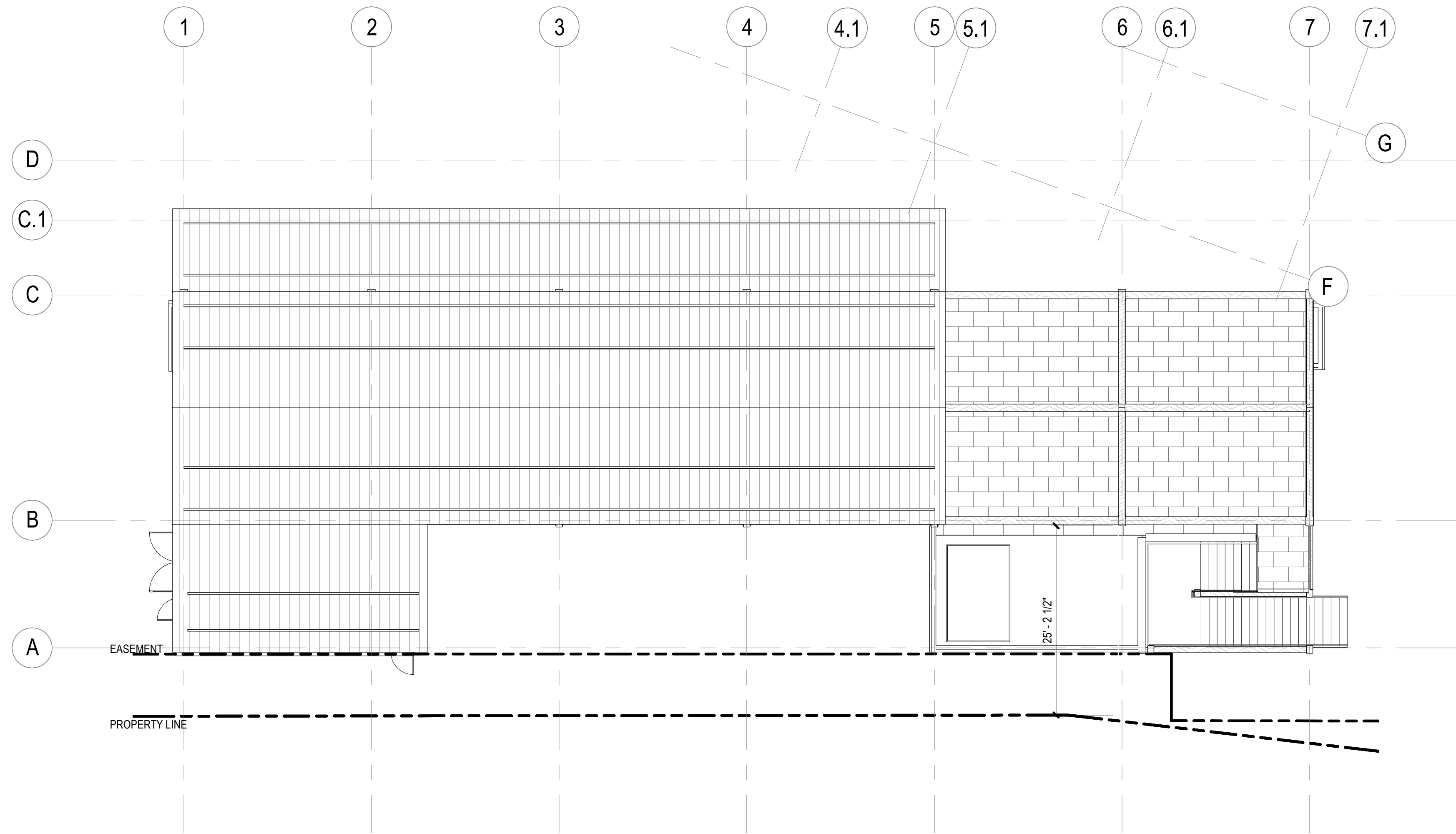
Description

EGRESS & OCCUPANCY PLAN - LEVEL 01

Scale

As indicated

1A-G3.101



01 EGRESS AND OCCUPANCY PLAN - ROOF

SCALE: 3/32" = 1'-0"

GRAPHIC SYMBOLS LEGEND		EGRESS REQUIREMENTS - LEVEL ROOF	
	EXIT ACCESS TRAVEL DISTANCE	TOTAL GROSS AREA OF TENANT - ENTIRE LEVEL:	APPROX. 8,501 SF
	COMMON PATH OF TRAVEL	TOTAL AREA IN SCOPE:	APPROX. 8,501 SF
	SECURITY LOCATIONS	TENANT OCCUPANT LOAD CALCULATIONS:	IBC TABLE 1004.1.2
	OCCUPANCY, FUNCTION OF SPACE	ASSEMBLY (5 NSF/PERSON):	0 OCCUPANTS
	1HR FIRE BARRIER / 20MIN OPENINGS	ASSEMBLY (15 NSF/PERSON):	0 OCCUPANTS
	1HR FIRE BARRIER / 45MIN OPENINGS	ACCESSORY (300 GSF/PERSON):	0 OCCUPANTS
	2HR FIRE BARRIER / 90MIN OPENINGS	BUSINESS (150 GSF/PERSON):	0 OCCUPANTS
	3HR FIRE BARRIER	LOCKER ROOMS (50 GSF/PERSON):	0 OCCUPANTS
FUNCTION LEGEND (OCCUPANT LOAD)		TOTAL:	0 OCCUPANTS
	ASSEMBLY, UNCONC.	EGRESS WIDTH REQUIREMENTS:	IBC 1005.3.2
	ASSEMBLY, CONC.	OTHER EGRESS COMPONENTS:	NA
	BUSINESS AREA	REQUIRED (15 IN/OCCUPANT):	NA
	KITCHENS, COMMERCIAL	PROVIDED AT EXIT STAIR DOORS:	IBC 1005.3.1
	ACCESS, STORAGE, MECHANICAL	EXIT STAIR WIDTH:	NA
	LOCKER ROOM	REQUIRED (2 IN/OCCUPANT):	NA
GENERAL NOTES		PROVIDED AT EXIT STAIRS	NA
A. WORK AREAS TONED IN LIGHT & DARK GRAY N.I.C.		MINIMUM WIDTH OF EGRESS CORRIDOR REQUIRED:	IBC 1020.2
SHEET NOTES		MINIMUM WIDTH OF EGRESS CORRIDOR PROVIDED:	NA
1. EGRESS ALLOWED IN DIRECTION OF EGRESS TRAVEL.		MINIMUM NUMBER OF EXITS REQUIRED:	IBC TABLE 1006.3.1
NUMBER OF OCCUPANTS	0 OCC.	NUMBER OF EXITS PROVIDED:	0 EXITS
WIDTH REQUIRED IN INCHES	0 REQ.	MAXIMUM LENGTH OF EGRESS TRAVEL:	IBC TABLE 1017.2 FOOTNOTE G
WIDTH PROVIDED IN INCHES	0 PROV.	MAXIMUM LENGTH OF EGRESS TRAVEL:	300 FEET (BUSINESS)
		MAXIMUM LENGTH OF EGRESS TRAVEL:	250 FEET (ASSEMBLY)
		MAXIMUM LENGTH OF EGRESS TRAVEL:	400 FEET (S-2)
		MAXIMUM COMMON PATH OF TRAVEL:	IBC 1006.2.1 FOOTNOTE A
		MAXIMUM COMMON PATH OF TRAVEL:	100 FEET (BUSINESS)
		MAXIMUM COMMON PATH OF TRAVEL:	100 FEET (ASSEMBLY)
		MAXIMUM COMMON PATH OF TRAVEL:	75 FEET (S-2)
		MAXIMUM DEAD END CORRIDOR:	IBC 1020.4 EXCEPTION 2
		MAXIMUM DEAD END CORRIDOR:	50 FEET
		REMOVEDNESS OF EXITS:	SEE PLAN, OR
		LONGEST DIAGONAL REMOTENESS OF EXITS	N/A AS SUITE IS < 5,000 SF

Date	Description
2021.05.19	BP3: PROMENADE - ISSUE FOR PERMIT

RCRBD
Record Set
TC
07/10/2021

Seal / Signature



Project Name 05.19.2021

SSRC | BASE AREA
IMPROVEMENTS

Project Number

003.7835.000

Description

EGRESS & OCCUPANCY PLAN - ROOF

Scale

As indicated

1A-G3.102

UL DESIGN NO. U419 CONTINUED

5B. **Gypsum Board*** — (Not Shown) — As an alternate to Item 5 when used as the base layer on one or both sides of wall when 5/8 in. or 3/4 in. thick products are specified. For direct attachment only to steel studs Item 2A, (not to be used with Item 3). Nom 5/8 in. or 3/4 in. may be used as alternate to all 5/8 in. or 3/4 in. shown in Item 5. Wallboard Protection on Each Side of Wall table. Item 5/8 in. or 3/4 in. thick lead backed gypsum panels with beveled, square or tapered edges, applied vertically. Vertical joints centered over studs and staggered min 1 stud cavity on opposite sides of studs. Gypsum board secured to 20 MSG steel studs Item 2A with 1-1/4 in. long Type S-12 steel screws spaced 8 in. OC at perimeter and 12 in. OC in the field. To be used with Lead Batten Strips (see Item 13) or Lead Closer or Tabs (see Item 12).

RAY-BAR ENGINEERING CORP — Type RB-LBG

5C. **Gypsum Board*** — (For Use With Item 2B) — Rating Limited to 1 Hour, 5/8 in. thick, 48 in. wide, Gypsum panels with beveled, square or tapered edges, applied vertically or horizontally. (Vertical Application) — The gypsum board is to be installed on each side of the studs with 1 in. long Type S coated steel screws spaced 8 in. OC starting 4 in. from the edge of the board at the vertical edges and 12 in. OC starting 6 in. from the edge of the board at the center of each board. Gypsum boards are to be secured to the top and bottom track with screws spaced 8 in. OC starting 4 in. from the board edge. Fasteners shall not penetrate through both the stud and the track at the same time. Vertical joints are to be centered over studs and staggered one stud cavity on opposite sides of studs. (Horizontal Application) — The gypsum board is to be installed on each side of the studs with 1 in. long Type S coated steel screws spaced 8 in. OC starting 4 in. from the edge of the board at the vertical edges and 12 in. OC starting 6 in. from the edge of the board at the center of each board. Gypsum boards are to be secured to the top and bottom track with screws spaced 8 in. OC starting 4 in. from the board edge. Fasteners shall not penetrate through both the stud and the track at the same time. All horizontal joints are to be backed as outlined under section VI of Volume 1 in the Fire Resistive Directory.

CGC INC — Type SCX.

UNITED STATES GYPSUM CO — Type SCX, SGX.

USG BORAL ZAWAWI DRYWALL L L C SFZ — Type SCX

USG MEXICO S A DE CV — Type SCX

5D. **Gypsum Board*** — (As an alternate to Item 5) — 5/8 in. thick, 48 in. wide, applied vertically or horizontally. Secured as described in Item 6. For use with Items 1 and 2 only.

CGC INC — Type USGX

UNITED STATES GYPSUM CO — Type USGX

USG MEXICO S A DE CV — Type USGX

5E. **Gypsum Board*** — (Not Shown) — (As an alternate to Item 5 when used as the base layer on one or both sides of wall when 1/2 in. or 5/8 in. thick products are specified. For direct attachment only to steel studs Item 2A, not to be used with Item 3). Nominal 5/8 in. thick lead backed gypsum panels with beveled, square or tapered edges, applied vertically. Vertical joints centered over studs and staggered min 1 stud cavity on opposite sides of studs. Wallboard secured to studs with 1-1/4 in. long Type S-12 (or No. 6 by 1-1/4 in. long bugle head fine drillers) steel screws spaced 8 in. OC at perimeter and 12 in. OC in the field.

NEW ENGLAND LEAD BURNING CO INC, DBA NELCO — Nelo

5F. **Gypsum Board*** — (As an alternate to Item 5) — For use with Items 1E and 2E and limited to 1 hour Rating only. Gypsum panels with beveled, square or tapered edges, applied vertically, and fastened to the steel studs as described in Item 6. Vertical joints centered over studs and staggered one stud cavity on opposite sides of studs. Vertical joints in adjacent layers (multilayer systems) staggered one stud cavity. Horizontal joints need not be backed by steel framing. Horizontal edge joints and horizontal butt joints in adjacent layers (multilayer systems) staggered a min of 12 in. The thickness and number of layers for the 2 hr, 3 hr and 4 hr ratings are as follows:

UNITED STATES GYPSUM CO — 5/8 in. thick Type SCX, SGX

USG BORAL ZAWAWI DRYWALL L L C SFZ — 5/8 in. thick Type SCX

5G. **Gypsum Board*** — (As an alternate to Item 5) — For use with Items 1E and 2E only. Gypsum panels with beveled, square or tapered edges, applied vertically or horizontally, as specified in the table below and fastened to the steel studs as described in Item 6. Vertical joints centered over studs and staggered one stud cavity on opposite sides of studs. Vertical joints in adjacent layers (multilayer systems) staggered one stud cavity. Horizontal joints need not be backed by steel framing. Horizontal edge joints and horizontal butt joints in adjacent layers (multilayer systems) staggered a min of 12 in. The thickness and number of layers for the 2 hr, 3 hr and 4 hr ratings are as follows:

Gypsum Board Protection on Each Side of Wall

Rating, Hr	Min Stud Depth, in. Item 2E	No. of Layers & Thickness of Panel	Min Thkns of Insulation (Item 4)
2	1-5/8	2 layers, 1/2 in. thick	Optional
2	1-5/8	2 layers, 5/8 in. thick	Optional
3	1-5/8	3 layers, 1/2 in. thick	Optional
3	1-5/8	3 layers, 5/8 in. thick	Optional
4	1-5/8	4 layers, 5/8 in. thick	Optional
4	1-5/8	4 layers, 1/2 in. thick	Optional

CGC INC — 1/2 in. thick Type C, IP-X2 or IPC-AR; 5/8 in. thick Type AR, C, IP-AR, IP-X1, IP-X2, IPC-AR, SCX, SHX, or; 3/4 in. thick Types IP-X3 or ULTRACODE

UNITED STATES GYPSUM CO — 1/2 in. thick Type C, IP-X2, IPC-AR or; 5/8 in. thick Type SCX, SGX, SHX, IP-X1, AR, C, , FRX-G, IP-AR, IP-X2, IPC-AR; 3/4 in. thick Types IP-X3 or ULTRACODE

USG BORAL ZAWAWI DRYWALL L L C SFZ — 1/2 in. Type C; 5/8 in. Types C, SCX, ULTRACODE

USG MEXICO S A DE CV — 1/2 in. thick Type C, IP-X2, IPC-AR or; 5/8 in. thick Type AR, C, IP-AR, IP-X1, IP-X2, IPC-AR, SCX, SHX, or; 3/4 in. thick Types IP-X3 or ULTRACODE

5H. **Gypsum Board*** — (Not Shown) — (As an alternate to Item 5 when used as the base layer on one or both sides of wall when 5/8 or 3/4 in. thick products are specified. For direct attachment only to steel studs Item 2A, (not to be used with Item 3). Nom 5/8 or 3/4 in. may be used as alternate to all 5/8 or 3/4 in. shown in Item 5. Wallboard Protection on Each Side of Wall table. Nom 5/8 or 3/4 in. thick lead backed gypsum panels with beveled, square or tapered edges, applied vertically. Vertical joints centered over 20 MSG steel studs and staggered min 1 stud cavity on opposite sides of studs. Wallboard secured to studs with 1-1/4 in. long Type S-12 steel screws spaced 8 in. OC at perimeter and 12 in. OC in the field. Gypsum board secured to 20 MSG steel studs Item 2B with 1-1/4 in. long Type S-12 steel screws spaced 8 in. OC at perimeter and 12 in. OC in the field. For Joint Compound see Item 5. To be used with Lead Batten Strips (see Item 13A) or Lead Closer (see Item 12A).

HAJOY INDUSTRIES INC — Type X-Ray Shielded Gypsum

5I. **Gypsum Board*** — (As an alternate to Item 5) — Nom. 5/8 in. thick gypsum panels with beveled, square or tapered edges installed as described in Item 5. Steel stud minimum depth shall be as indicated in Item 5.

CGC INC — Type ULX

UL DESIGN NO. U419 CONTINUED

1		2-1/2	1 layer, 1/2 in. thick	1-1/2 in.
1		1-5/8	1 layer, 3/4 in. thick	Optional
2		1-5/8	2 layers, 1/2 in. thick	Optional
2		1-5/8	2 layers, 5/8 in. thick	Optional
2		3-1/2	1 layer, 3/4 in. thick	3 in.
3		1-5/8	3 layers, 1/2 in. thick	Optional
3		1-5/8	2 layers, 3/4 in. thick	Optional
3		1-5/8	3 layers, 5/8 in. thick	Optional
4		1-5/8	4 layers, 5/8 in. thick	Optional
4		1-5/8	4 layers, 1/2 in. thick	Optional
4		2-1/2	2 layers, 3/4 in. thick	2 in.

CGC INC — 1/2 in. thick Type C, IP-X2 or IPC-AR; WRC, 5/8 in. thick Type AR, C, IP-AR, IP-X1, IP-X2, IPC-AR, SCX, SHX, WRX or WRC; 3/4 in. thick Types IP-X3 or ULTRACODE

UNITED STATES GYPSUM CO — 1/2 in. thick Type C, IP-X2, IPC-AR or WRC; 5/8 in. thick Type SCX, SGX, SHX, WRX, IP-X1, AR, C, WRC, FRX-G, IP-AR, IP-X2, IPC-AR; 3/4 in. thick Types IP-X3 or ULTRACODE

USG BORAL ZAWAWI DRYWALL L L C SFZ — 1/2 in. Type C; 5/8 in. Types C, SCX, ULTRACODE

USG MEXICO S A DE CV — 1/2 in. thick Type C, IP-X2, IPC-AR or WRC; 5/8 in. thick Type AR, C, IP-AR, IP-X1, IP-X2, IPC-AR, SCX, SHX, WRX, WRC or; 3/4 in. thick Types IP-X3 or ULTRACODE

When Item 7B, **Steel Framing Members***, is used, Nonbearing Wall Rating is limited to 1 Hr. Min. stud depth is 3-1/2 in., min. thickness of insulation (Item 4) is 3 in., and two layers of gypsum board panels (1/2 in. or 5/8 in. thick) shall be attached to furring channels as described in Item 6. One layer of gypsum board panels (1/2 in. or 5/8 in. thick) attached to opposite side of stud without furring channels as described in Item 6.

5A. **Gypsum Board*** — (As an alternate to Item 5) — 5/8 in. thick, 24 to 54 in. wide, applied horizontally as the outer layer to one side of the assembly. Secured as described in Item 6.

CGC INC — Type SHX.

UNITED STATES GYPSUM CO — Type FRX-G, SHX.

USG MEXICO S A DE CV — Type SHX.

Gypsum Board Protection on Each Side of Wall

Rating, Hr	Min Stud Depth, in. Items 2, 2C, 2D, 2F, 2G, 2O	No. of Layers & Thkns of Panel	Min Thkns of Insulation (Item 4)
1	3-1/2	1 layer, 5/8 in. thick	Optional
1	2-1/2	1 layer, 1/2 in. thick	1-1/2 in.
1	1-5/8	1 layer, 3/4 in. thick	Optional
2	1-5/8	2 layers, 1/2 in. thick	Optional
2	1-5/8	2 layers, 5/8 in. thick	Optional
2	3-1/2	1 layer, 3/4 in. thick	3 in.
3	1-5/8	3 layers, 1/2 in. thick	Optional
3	1-5/8	2 layers, 3/4 in. thick	Optional
3	1-5/8	3 layers, 5/8 in. thick	Optional
4	1-5/8	4 layers, 5/8 in. thick	Optional
4	1-5/8	4 layers, 1/2 in. thick	Optional
4	2-1/2	2 layers, 3/4 in. thick	2 in.

CGC INC — 1/2 in. thick Type C, IP-X2 or IPC-AR; WRC, 5/8 in. thick Type AR, C, IP-AR, IP-X1, IP-X2, IPC-AR, SCX, SHX, WRX or WRC; 3/4 in. thick Types IP-X3 or ULTRACODE

UNITED STATES GYPSUM CO — 1/2 in. thick Type C, IP-X2, IPC-AR or WRC; 5/8 in. thick Type SCX, SGX, SHX, WRX, IP-X1, AR, C, WRC, FRX-G, IP-AR, IP-X2, IPC-AR; 3/4 in. thick Types IP-X3 or ULTRACODE

USG BORAL ZAWAWI DRYWALL L L C SFZ — 1/2 in. Type C; 5/8 in. Types C, SCX, ULTRACODE

USG MEXICO S A DE CV — 1/2 in. thick Type C, IP-X2, IPC-AR or WRC; 5/8 in. thick Type AR, C, IP-AR, IP-X1, IP-X2, IPC-AR, SCX, SHX, WRX, WRC or; 3/4 in. thick Types IP-X3 or ULTRACODE

When Item 7B, **Steel Framing Members***, is used, Nonbearing Wall Rating is limited to 1 Hr. Min. stud depth is 3-1/2 in., min. thickness of insulation (Item 4) is 3 in., and two layers of gypsum board panels (1/2 in. or 5/8 in. thick) shall be attached to furring channels as described in Item 6. One layer of gypsum board panels (1/2 in. or 5/8 in. thick) attached to opposite side of stud without furring channels as described in Item 6.

5A. **Gypsum Board*** — (As an alternate to Item 5) — 5/8 in. thick, 24 to 54 in. wide, applied horizontally as the outer layer to one side of the assembly. Secured as described in Item 6.

CGC INC — Type SHX.

UNITED STATES GYPSUM CO — Type FRX-G, SHX.

USG MEXICO S A DE CV — Type SHX.

UL DESIGN NO. U419 CONTINUED

2. **Steel Studs** — Channel shaped, fabricated from min 25 MSG corrosion-protected steel, min depth as indicated under Item 5, spaced a max of 24 in. OC. Studs to be cut 3/8 to 3/4 in. less than assembly height.

2A. **Steel Studs** — (As an alternate to Item 2, For use with Items 3B, 3C, 3D, 3E and 3F) — Channel shaped, fabricated from min 20 MSG corrosion-protected or galv steel, 3-1/2 in. min depth, spaced a max of 16 in. OC. Studs friction-fit into floor and ceiling runners. Studs to be cut 5/8 to 3/4 in. less than assembly height.

2B. **Framing Members*** — **Steel Studs** — (As an alternate to Item 2, For use with Items 3C, 3D or 3E) — Proprietary channel shaped studs, 3-5/8 in. deep spaced a max of 24 in. OC. Studs to be cut 3/4 in. less than the assembly height and installed with a 1/2 in. gap between the end of the stud and track at the bottom of the wall. For direct attachment of gypsum board only.

CALIFORNIA EXPANDED METAL PRODUCTS CO — Viper25™

CRACO MFG INC — SmartStud25™

MARINO/WARE, DIV OF WARE INDUSTRIES INC — Viper25™

2C. **Framing Members*** — **Steel Studs** — Not Shown — In lieu of Item 2 — proprietary channel shaped steel studs, min depth as indicated under Item 5, spaced a max of 24 in. OC, fabricated from min 0.020 in. thick galv steel. Studs cut 3/8 in. to 3/4 in. less in lengths than assembly heights.

CALIFORNIA EXPANDED METAL PRODUCTS CO — Viper20™

MARINO/WARE, DIV OF WARE INDUSTRIES INC — Viper20™

2D. **Framing Members*** — **Steel Studs** — In lieu of Item 2 — Channel shaped studs, min depth as indicated under Item 5, spaced a max of 24 in. OC. Studs to be cut 3/4 in. less than assembly height.

ALLSTEEL & GYPSUM PRODUCTS INC — Type SUPREME Framing System

CONSOLIDATED FABRICATORS CORP, BUILDING PRODUCTS DIV — Type SUPREME Framing System

QUAIL RUN BUILDING MATERIALS INC — Type SUPREME Framing System

SCAFCO STEEL STUD MANUFACTURING CO — Type SUPREME Framing System

STEEL CONSTRUCTION SYSTEMS INC — Type SUPREME Framing System

UNITED METAL PRODUCTS INC — Type SUPREME Framing System

2E. **Framing Members*** — **Steel Studs** — (Not Shown, As an alternate to Item 2) — For use with Items 3F or 5G or 5I or 5K only, channel shaped studs, min depth as indicated under Item 3F, 5G or 5I, fabricated from min. 0.015 in. (min bare metal thickness) galvanized steel, spaced a max of 24 in. OC. Studs to be cut 3/4 in. less than assembly height.

CLARKDIETRICH BUILDING SYSTEMS — CD ProSTUD

DMFCWBS L L C — ProSTUD

MBA METAL FRAMING — ProSTUD

RAM SALES L L C — Ram ProSTUD

STEEL STRUCTURAL PRODUCTS L L C — Tri-S ProSTUD

2F. **Framing Members*** — **Steel Studs** — Not Shown — In lieu of Item 2 — proprietary channel shaped steel studs, minimum width indicated under Item 5, 1-1/4 in. deep fabricated from min 0.015 in. (min bare metal thickness) galvanized steel. Studs 3/8 in. to 3/4 in. less in lengths than assembly heights.

SUPER STUD BUILDING PRODUCTS — The Edge

2G. **Framing Members*** — **Steel Studs** — Not Shown — In lieu of Item 2 — proprietary channel shaped studs, minimum width indicated under Item 5, Studs to be cut 3/8 to 3/4 in. less than the assembly height.

STUDCO BUILDING SYSTEMS — CROCSTUD

2H. **Framing Members*** — **Steel Studs** — (Not Shown, As an alternate to Item 2) — Fabricated from min. 0.015 in. (min bare metal thickness) galvanized steel, spaced a max of 24 in. OC. Studs to be cut 3/4 in. less than assembly height.

TELLING INDUSTRIES L L C — TRUE-STUD™

2I. **Framing Members*** — **Steel Studs** — (As an alternate to Item 2, For use with Items 3C or 5I or 5K) — Proprietary channel shaped studs, 3-5/8 in. deep spaced a max of 24 in. OC. Studs to be cut 3/4 in. less than the assembly height and installed with a 1/2 in. gap between the end of the stud and track at the bottom of the wall. For direct attachment of gypsum board only.

TELLING INDUSTRIES L L C — Viper25™

2J. **Framing Members*** — **Metal Studs** — Not Shown — In lieu of Item 2 — proprietary channel shaped steel studs, min depth as indicated under Item 5, spaced a max of 24 in. OC, fabricated from min 0.020 in. thick galv steel. Studs cut 3/8 in. to 3/4 in. less in lengths than assembly heights

TELLING INDUSTRIES L L C — Viper20™

2K. **Framing Members*** — **Steel Studs** — As an alternate to Item 2 — For use with Item 1, channel shaped studs, fabricated from min 25 MSG corrosion-protected steel, min depth as indicated under Item 5, spaced a max of 24 in. OC. Studs to be cut 3/8 to 3/4 in. less than assembly height.

EB METAL INC — EB Stud

2L. **Framing Members*** — **Steel Studs** — As an alternate to Item 2 — For use with Item 1, channel shaped studs, fabricated from min 25 MSG corrosion-protected steel, min depth as indicated under Item 5, spaced a max of 24 in. OC. Studs to be cut 3/8 to 3/4 in. less than assembly height.

OLMAR SUPPLY INC — PRIMESTUD

2M. **Framing Members*** — **Steel Studs** — As an alternate to Item 2 — For use with Item 1, channel shaped studs, fabricated from min 25 MSG corrosion-protected steel, min depth as indicated under Item 5, spaced a max of 24 in. OC. Studs to be cut 3/8 to 3/4 in. less than assembly height.

MARINO/WARE, DIV OF WARE INDUSTRIES INC — StudRite™

2O. **Framing Members*** — **Steel Studs** — As an alternate to Item 2 — proprietary channel shaped steel studs, min width as indicated under Item 5, galv steel. Studs to be cut 3/8 to 3/4 in. less in lengths than assembly height. Spaced 24 in. OC max.

RONDO BUILDING SERVICES PTY LTD — Rondo Lipped Wall Stud

3. **Wood Structural Panel Sheathing** — (Optional, For use with Item 5 Only) — (Not Shown) — 4 ft wide, 7/16 in. thick oriented strand board (OSB) or 15/32 in. thick structural 1 sheathing (plywood) complying with DCS P01 or PS2, or APA Standard PRG-108, manufactured with exterior glue, applied horizontally or vertically to the steel studs. Vertical joints centered on studs, and staggered one stud space from wallboard joints. Attached to studs with flat-head self-drilling tapping screws with a min. head diam. of 5.292 in. at maximum 6 in. OC in the perimeter and 12 in. OC in the field. When used, gypsum panels attached over OSB or plywood panels and fastener lengths for gypsum panels increased by min. 1/2 in.

4. **Batts and Blankets*** — (Required as indicated under Item 5) — Mineral wool batts, friction fitted between studs and runners. Min nom thickness as indicated under Item 5.

See **Batts and Blankets** (BKNV or BZJZ) Categories for names of Classified companies.

4A. **Batts and Blankets*** — (Optional) — Placed in stud cavities, any glass fiber or mineral wool insulation bearing the UL Classification Marking as to Surface Burning Characteristics and/or Fire Resistance.

See **Batts and Blankets** (BKNV or BZJZ) Categories for names of Classified companies.

4B. **Batts and Blankets*** — For use with Item 5K. Placed in stud cavities, any min. 3-1/2 in. thick glass fiber insulation bearing the UL Classification Marking as to Surface Burning Characteristics and/or Fire Resistance.

See **Batts and Blankets** (BKNV or BZJZ) Categories for names of Classified companies.

5. **Gypsum Board*** — Gypsum panels with beveled, square or tapered edges, applied vertically or horizontally. Vertical joints centered over studs and staggered one stud cavity on opposite sides of studs. Vertical joints in adjacent layers (multilayer systems) staggered one stud cavity. Horizontal joints need not be backed by steel framing. Horizontal edge joints and horizontal butt joints on opposite sides of studs need not be staggered. Horizontal edge joints and horizontal butt joints in adjacent layers (multilayer systems) staggered a min of 12 in. The thickness and number of layers for the 1 hr, 2 hr, 3 hr and 4 hr ratings are as follows:

UL DESIGN NO. U419

BXUV - Fire Resistance Ratings - ANSI/UL 263

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

See General Information for Fire-resistance Ratings - ANSI/UL 263

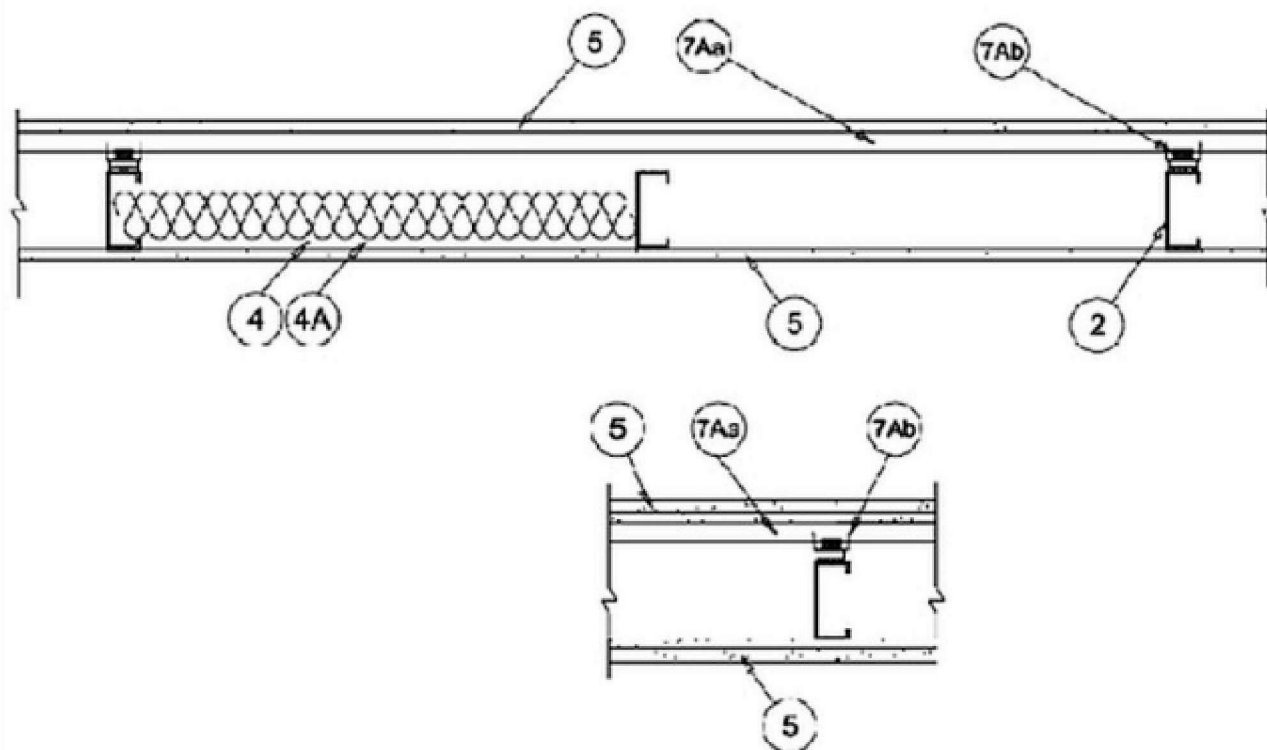
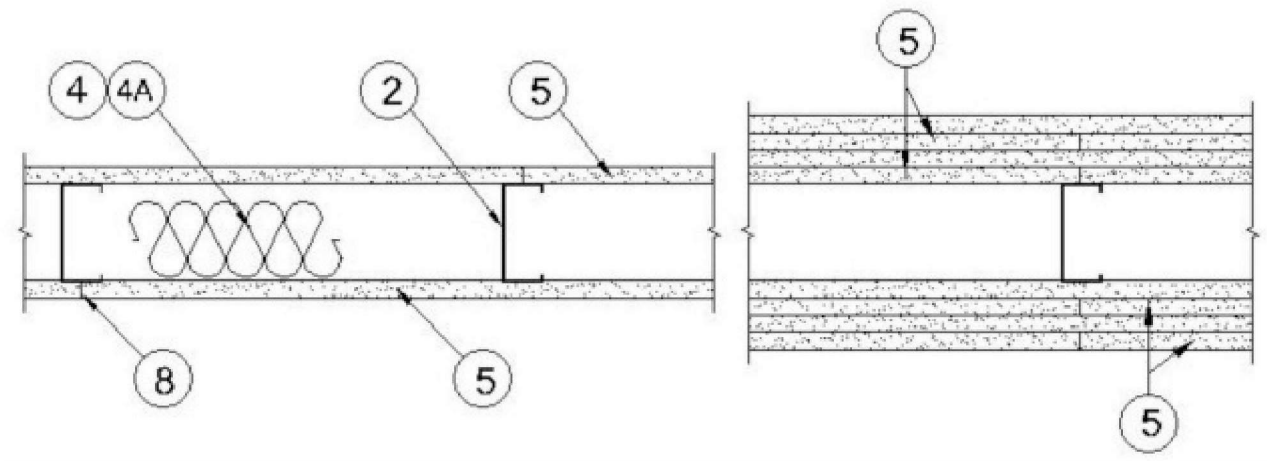
See General Information for Fire Resistance Ratings - CAN/ULC-S101 Certified for Canada

Design No. U419

August 25, 2016

Nonbearing Wall Ratings — 1, 2, 3 or 4 Hr (See Items 4 & 5 through 5K)

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



1. **Floor and Ceiling Runners** — (Not Shown) — For use with Item 2 — Channel shaped, fabricated from min 25 MSG corrosion-protected steel, min depth to accommodate stud size, with min 1-1/4 in. long legs, attached to floor

and ceiling with fasteners 24 in. OC max.

1A. **Framing Members*** — **Floor and Ceiling Runner** — Not Shown — In lieu of Item 1 — For use with Item 2B, proprietary channel shaped runners, 3-5/8 in. deep attached to floor and ceiling with fasteners 24 in. OC max.

CALIFORNIA EXPANDED METAL PRODUCTS CO — Viper25™ Track

CRACO MFG INC — SmartTrack25™

MARINO/WARE, DIV OF WARE INDUSTRIES INC — Viper25™ Track

1B. **Framing Members*** — **Floor and Ceiling Runner** — Not Shown — In lieu of Item 1 — For use with Item 2C, proprietary channel shaped runners, 3-5/8 in. deep fabricated from min 0.020 in. thick galv steel, attached to floor and ceiling with fasteners spaced 24 in. OC max.

CALIFORNIA EXPANDED METAL PRODUCTS CO — Viper20™ Track

MARINO/WARE, DIV OF WARE INDUSTRIES INC — Viper20™ Track

1C. **Framing Members*** — **Floor and Ceiling Runners** — (Not Shown) — In lieu of Item 1 — Channel shaped, attached to floor and ceiling with fasteners 24 in. OC max.

ALLSTEEL & GYPSUM PRODUCTS INC — Type SUPREME Framing System

CONSOLIDATED FABRICATORS CORP, BUILDING PRODUCTS DIV — Type SUPREME Framing System

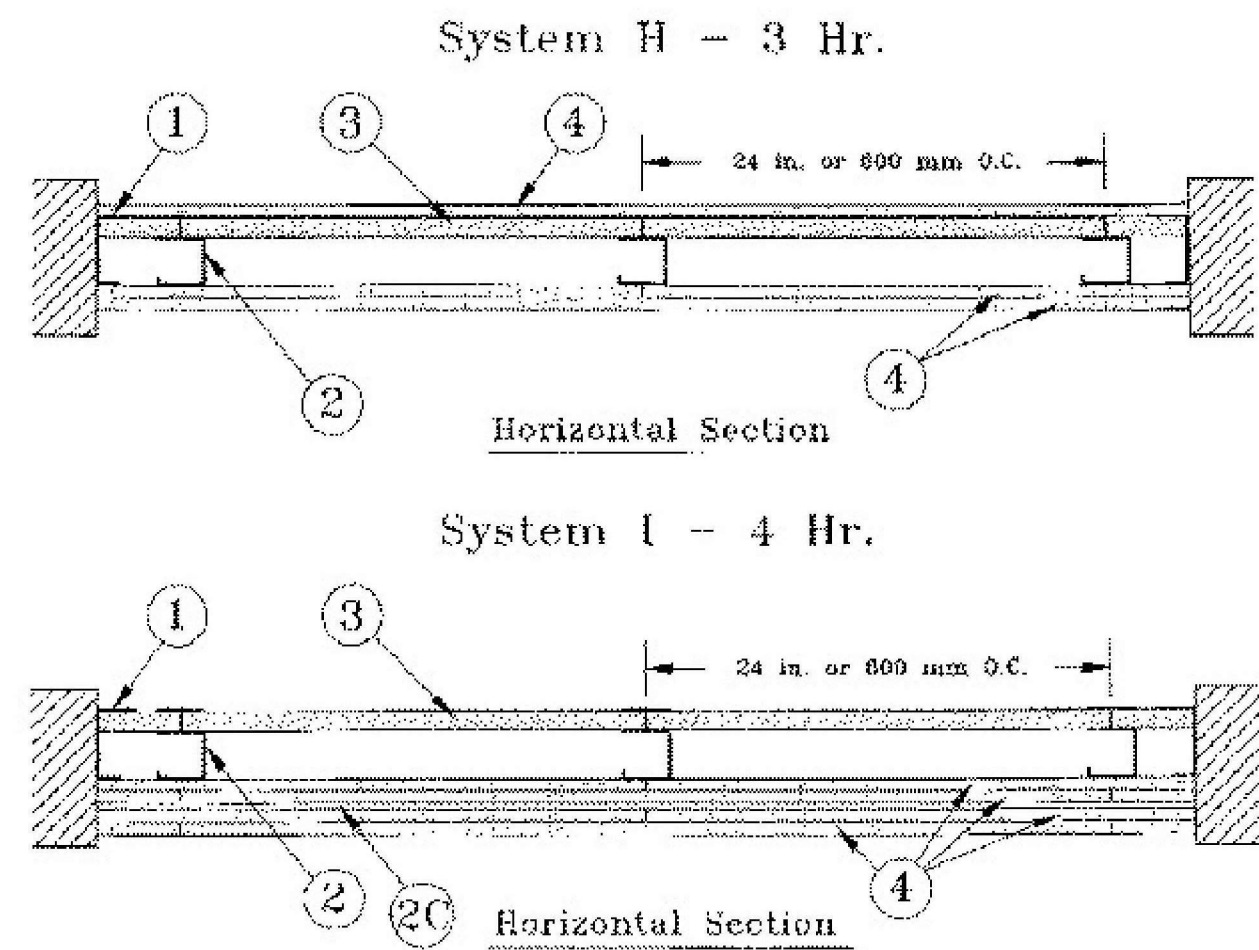
QUAIL RUN BUILDING MATERIALS INC — Type SUPREME Framing System

SCAFCO STEEL STUD MANUFACTURING CO — Type SUPREME Framing System

STEEL CONSTRUCTION SYSTEMS INC — Type SUPREME Framing System

UNITED METAL PRODUCTS INC — Type SUPREME Framing System

UL DESIGN NO. U415 CONTINUED



1. **Floor, Side and Ceiling Runners** – "J" - shaped runner, min 2-1/2 in. deep (min 4 in. deep when System C is used), with unequal legs of 1 in. and 2 in., fabricated from min 24 MSG (min 20 MSG when Item 4A, 4B, 4C, 4D or 7 are used) galv steel. Runners positioned with short leg toward finished side of wall. Runners attached to structural supports with steel fasteners located not greater than 2 in. from ends and not greater than 24 in. OC. "E" - shaped studs (Item 2A) may be used as side runners in place of "J" - shaped runners.

2. **Steel Studs** – "C" - shaped studs, min 2-1/2 in. deep (min 4 in. deep when System C is used), fabricated from min 25 MSG (min 20 MSG when Items 2D, 4A, 4B, 4C, 4D or 7 is used) galv steel. Cut to lengths 3/8 to 1/2 in. less than floor-to-ceiling height and spaced 24 in. or 600 mm O.C. max. 16 in. OC when Items 4A, 4B, 4C, or 4D are used).

2A. **Steel Studs** – (Not Shown) – "E" - shaped studs installed back to back in place of "C" - shaped studs (Item 2) "E" - shaped studs secured together with steel screws spaced a maximum 12 in. OC. Fabricated from min 25 MSG (min 20 MSG when Item 2D, 4A, 4B or 7 is used) galv steel, min 2-1/2 in. deep (min 4 in. deep when System C is used), with one leg 1 in. long and two legs 3/4 in. long. Shorter legs 1 in. apart to engage gypsum liner panels. Cut to lengths 3/8 to 1/2 in. less than floor to ceiling heights.

2B. **Furring Channels** – (Optional, Not Shown) – For use with single or double layer systems. Resilient furring channels fabricated from min 25MSG corrosion protected steel, installed horizontally, and spaced vertically a max 24 in. OC. Flange portion of channel attached to each intersecting "C" or "E" stud on side of stud opposite the 1 in. liner panels with 1/2 in. long Type S or S-12 pan-head steel screws. When furring channels are used, wallboard to be installed vertically only. Not to be used with Type FRX-G gypsum wallboard, Type RB-LBG (Item 4A), Type Nelo (Item 4B) or cementitious backer units (Item 7).

2C. **Furring Channels** – For use with System I - "Hat" - shaped, 25 MSG galv steel furring channels attached directly over the inner layers of wallboard to each stud with 2 in. long Type S pan head steel screws. Screws alternate from top flange to bottom flange at each stud intersection. Furring channels spaced vertically max 24 in. OC.

2D. **Steel Framing Members** – (Optional, Not Shown) – For use with single or double layer systems. Furring channels and Steel Framing Members as described below. Not to be used with Type FRX-G gypsum wallboard, Type RB-LBG (Item 4A), Type Nelo (Item 4B) or cementitious backer units (Item 7):

a. **Furring Channels** – Formed of No. 25 MSG galv steel, 2-9/16 in. or 2-23/32 in. wide by 7/8 in. deep, spaced max. 24 in. OC perpendicular to studs. Channels secured to studs as described in Item b. Gypsum board installed vertically only and attached to furring channels as described in Item 3.

b. **Steel Framing Members** – Used to attach furring channels (Item 2D) to studs (Item 2 or 2A). Clips spaced max. 24 in. OC, and secured to studs with No. 8 x 1-1/2 in. minimum self-drilling, S-12 steel screw through the center grommet. Furring channels are friction fitted into clips. RSC-1 clip for use with 2-9/16 in. wide furring channels. RSC-1 (2.75) clip for use with 2-23/32 in. wide furring channels.

PAC INTERNATIONAL L L C – Types RSC-1, RSC-1 (2.75)

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

a. **Furring Channels** – Formed of No. 25 MSG galv steel. Spaced 24 in. OC perpendicular to studs. Channels secured to studs as described in Item b. Ends of adjoining channels overlapped 6 in. and secured together with four self-tapping No. 8x1/2 Self Drilling screws (2 per side 1 in. and 4 in. from overlap edge). Gypsum board attached to furring channels as described in Item 3. Side joint furring channels shall be attached to studs with RESILMOUNT Sound Isolation Clips - Type A237R located approximately 2 in. from each end of length of channel. Both Gypsum Boards at side joints fastened into channel with screws spaced 8 in. OC, approximately 1/2 in. from joint edge.

b. **Steel Framing Members** – Used to attach furring channels (Item 2E) to studs (Item 2 or 2A). Clips spaced max. 24 in. OC, and secured to studs with No. 10 x 2-1/2 in. coarse drywall screws, one through the hole at each end of the clip. Furring channels are friction fitted into clips.

STUCCO BUILDING SYSTEMS – RESILMOUNT Sound Isolation Clips - Type A237R

2F. **Steel Framing Members** – (Optional, Not Shown) – For use with single or double layer systems. Furring channels and Steel Framing Members as described below. Not to be used with Type FRX-G gypsum wallboard, Type RB-LBG (Item 4A), Type Nelo (Item 4B) or cementitious backer units (Item 7):

a. **Furring Channels** – Formed of No. 25 MSG galv steel, 2-3/8 in. wide by 7/8 in. deep, spaced max. 24 in. OC perpendicular to studs. Channels secured to studs as described in Item b. Gypsum board installed vertically only and attached to furring channels as described in Item 3.

b. **Steel Framing Members** – Used to attach furring channels (Item 2F) to studs (Item 2 or 2A). Clips spaced max. 24 in. OC. GENIECLIPS secured to studs with No. 8 x 1-1/2 in. minimum self-drilling, S-12 steel screw through the center grommet. Furring channels are friction fitted into clips.

PLITEQ INC – Type GENIECLIP

3. **Gypsum Board** – Gypsum liner panels, nom 1 in. thick, 24 in. or 600 mm (for metric spacing) wide. Panels cut 1 in. less in length than floor to ceiling height. Vertical edges inserted in "H" portion of "C" or "E" studs or the gap between the two 3/4 in. legs of the "E" studs. Free edge of end panels attached to long leg of vertical "J" - runners with 1-5/8 in. long Type S steel screws spaced not greater than 12 in. OC. When wall height exceeds liner panel length, liner panel may be butted to extend to the full height of the wall. Horizontal joints need not be backed by steel framing. In System I, butt joints in liner panels are staggered min 36 in. Butt joints backed with 6 in. by 22 in. strips of 3/4 in. thick gypsum wallboard (Item 4). Wallboard strips centered over butt joints and secured to liner panels with six 1-1/2 in. long Type G steel screws, three screws along the 22 in. dimension at the top and bottom of the strips.

CGC INC – Type SLX

UNITED STATES GYPSUM CO – Type SLX

USG BORAL ZAWAWI DRYWALL L L C SFZ – Type SLX

USG MEXICO S A DE CV – Type SLX

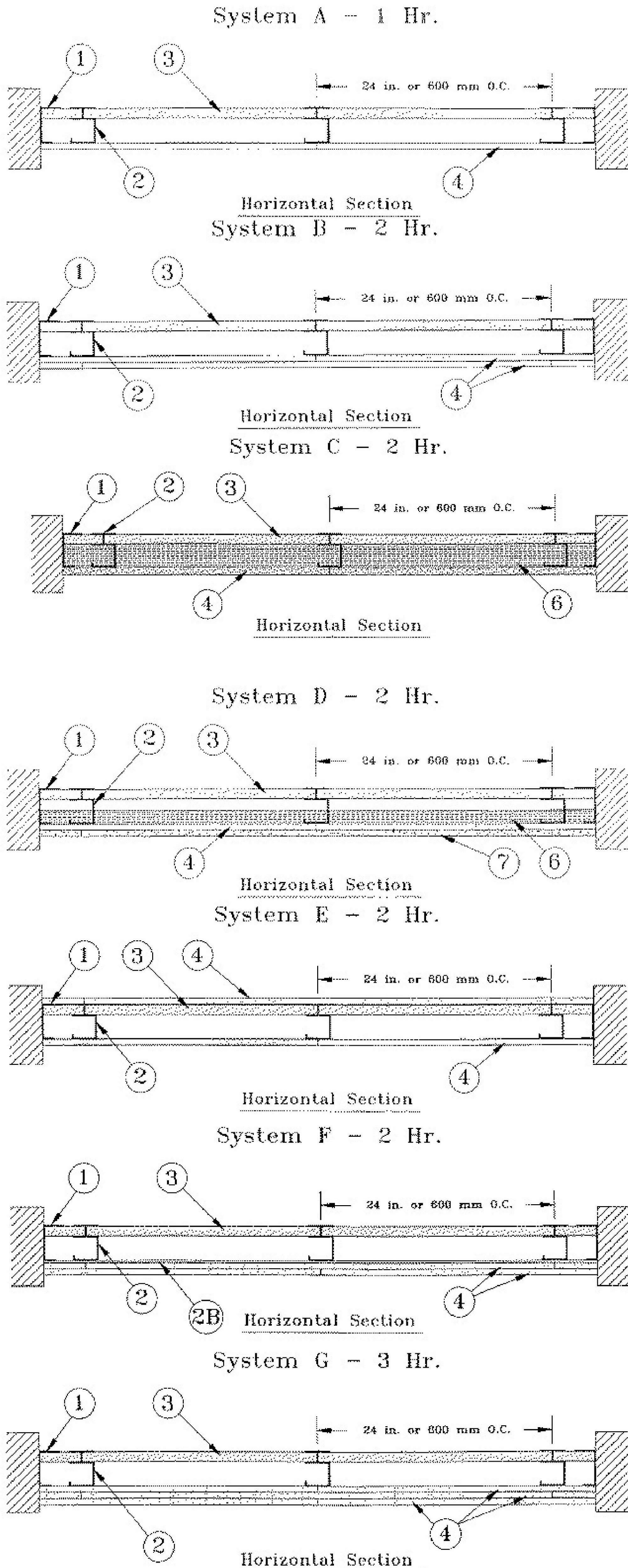
UL DESIGN NO. U415

Design No. U415

July 14, 2016

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

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



UL DESIGN NO. U419 CONTINUED

with screws offset 8 in. from first layer. Three-layer systems: First layer: 1 in. long screws, spaced 24 in. OC. Second layer: 1-5/8 in. long screws, spaced 24 in. OC. Third layer: 2-5/8 in. long screws, spaced 8 in. OC. Screws offset min 6 in. from layer below. Four-layer systems: First layer: 1 in. long screws, spaced 24 in. OC. Second layer: 1-5/8 in. long screws, spaced 24 in. OC. Third layer: 2-5/8 in. long screws, spaced 24 in. OC. Fourth layer: 3 in. long screws, spaced 8 in. OC. Screws offset min 6 in. from layer below.

7. **Furring Channels** – (Optional, Not Shown, for single or double layer systems) – Resilient furring channels fabricated from min 25 MSG corrosion-protected steel, spaced vertically a max of 24 in. OC. Flange portion attached to each intersecting stud with 1/2 in. long Type S-12 steel screws. Not for use with Item 5A and 5E.

7A. **Framing Members** – (Optional on one or both sides, not shown, for single or double layer systems) – As an alternate to Item 7, furring channels and Steel Framing Members as described below:

a. **Furring Channels** – Formed of No. 25 MSG galv steel, 2-9/16 in. or 2-23/32 in. wide by 7/8 in. deep, spaced max. 24 in. OC perpendicular to studs. Channels secured to studs as described in Item b. Gypsum board attached to furring channels as described in Item 6. Not for use with Item 5A and 5E.

b. **Steel Framing Members** – Used to attach furring channels (Item 7A) to studs (Item 2). Clips spaced max. 48 in. OC. RSC-1 and RSC-1 (2.75) clips secured to studs with No. 8 x 1-1/2 in. minimum self-drilling, S-12 steel screw through the center grommet. RSC-V and RSC-V (2.75) clips secured to studs with No. 8 x 9/16 in. minimum self-drilling, S-12 steel screw through the center hole. Furring channels are friction fitted into clips. RSC-1 and RSC-V clips for use with 2-9/16 in. wide furring channels. RSC-1 (2.75) and RSC-V (2.75) clips for use with 2-23/32 in. wide furring channels.

PAC INTERNATIONAL L L C – Types RSC-1, RSC-V, RSC-1 (2.75), RSC-V (2.75)

7B. **Framing Members** – (Optional, Not Shown) – As an alternate to Item 7, for single or double layer systems, furring channels and Steel Framing Members on only one side of studs as described below:

a. **Furring Channels** – Formed of No. 25 MSG galv steel, spaced 24 in. OC perpendicular to studs. Channels secured to studs as described in Item b. Gypsum board attached to furring channels as described in Item 6. Not for use with Item 5A and 5E.

b. **Steel Framing Members** – Used to attach furring channels (Item 7B) to one side of studs (Item 2) only. Clips spaced 48 in. OC, and secured to studs with No. 8 x 2-1/2 in. coarse drywall screws, one through the hole at each end of the clip. Furring channels are friction fitted into clips.

KINETICS NOISE CONTROL INC – Type Isomax

7C. **Framing Members** – (Not Shown) – (Optional on one or both sides, not shown, for single or double layer systems) – As an alternate to Item 7, furring channels and Steel Framing Members as described below:

a. **Furring Channels** – Formed of No. 25 MSG galv steel, spaced 24 in. OC perpendicular to studs. Channels secured to studs as described in Item b. Gypsum board attached to furring channels as described in Item 6. Not for use with Item 5A and 5E.

b. **Steel Framing Members** – Used to attach furring channels (Item 7A) to studs (Item 2). Clips spaced max. 48 in. OC. GENIECLIPS secured to studs with No. 8 x 1-1/2 in. minimum self-drilling, S-12 steel screw through the center grommet. Furring channels are friction fitted into clips.

PLITEQ INC – Type GENIECLIP

7D. **Steel Framing Members** – (Optional, Not Shown) – Furring channels and Steel Framing Members as described below:

a. **Furring Channels** – Formed of No. 25 MSG galv steel. Spaced 24 in. OC perpendicular to studs. Channels secured to studs as described in Item b. Ends of adjoining channels overlapped 6 in. and secured together with four self-tapping No. 8x1/2 Self Drilling screws (2 per side 1 in. and 4 in. from overlap edge). Gypsum board attached to furring channels as described in Item 4. Side joint furring channels shall be attached to studs with RESILMOUNT Sound Isolation Clips - located approximately 2 in. from each end of length of channel. Both Gypsum Boards at side joints fastened into channel with screws spaced 8 in. OC, approximately 1/2 in. from joint edge. Not for use with Item 5A and 5E.

b. **Steel Framing Members** – Used to attach furring channels (Item 7D) to studs. Clips spaced 24 in. OC, and secured to studs with No. 10 x 2-1/2 in. coarse drywall screw through the center hole. Furring channels are friction fitted into clips.

STUCCO BUILDING SYSTEMS – RESILMOUNT Sound Isolation Clips - Type A237 or A237R

8. **Joint Tape and Compound** – Vinyl or casing, dry or premixed joint compound applied in two coats to joints and screw heads of outer layers. Paper tape, nom 2 in. wide, embedded in first layer of compound over all joints of outer layer panels. Paper tape and joint compound may be omitted when gypsum panels are supplied with a square edge.

9. **Siding, Brick or Stucco** – (Optional, Not Shown) – Aluminum, vinyl or steel siding, brick veneer or stucco, meeting the requirements of local code agencies. Installed over gypsum panels. Brick veneer attached to studs with corrugated metal wall ties attached to each stud with steel screws, not less than each sixth course of brick.

10. **Caulking and Sealants** – (Optional, Not Shown) – A bead of acoustical sealant applied around the perimeter perimeter for sound control.

UNITED STATES GYPSUM CO – Type A5

11. **Lead Batten Strips** – (Not Shown, For Use With Item 5B) – Lead batten strips, min 1-1/2 in. wide, max 10 ft long with a max thickness of 0.125 in. Strips placed on the interior face of studs and attached from the exterior face of the stud with two 1 in. long Type S-8 pan head steel screws, one at the top of the strip and one at the bottom of the strip or with one min. 1 in. long min. Type S-8 pan head steel screw at the top of the strip. Lead batten strips to have a purity of 99.9% meeting the Federal specification QQ-L-201F, Grade "C". Lead batten strips required behind vertical joints of lead backed gypsum wallboard or optional at remaining stud locations. Required behind vertical joints.

11A. **Lead Batten Strips** – (Not Shown, For Use With Item 5H) – Lead batten strips, 2 in. wide, max 10 ft long with a max thickness of 0.140 in. Strips placed on the face of studs and attached to the stud with two min. 1 in. long min. Type S-8 pan head steel screws, one at the top of the strip and one at the bottom of the strip or with one min. 1 in. long min. Type S-8 pan head steel screw at the top of the strip. Lead batten strips to have a purity of 99.9% meeting the Federal specification QQ-L-201F, Grade "B, C or D". Lead batten strips required behind vertical joints of lead backed gypsum wallboard and optional at remaining stud locations.

12. **Lead Discs or Tabs** – (Not Shown, For Use With Item 5B) – Used in lieu of or in addition to the lead batten strips (Item 11) or optional at other locations - Max 3/4 in. diam by max 0.125 in. thick lead discs compression fitted or adhered over steel screw heads or max 1/2 in. by 1-1/4 in. by max 0.125 in. thick lead tabs placed on gypsum boards (Item 5B) underneath screw locations prior to the installation of the screws. Lead discs or tabs to have a purity of 99.9% meeting the Federal specification QQ-L-201F, Grade "C".

12A. **Lead Discs** – (Not Shown, for use with Item 5H) – Max 5/16 in. diam by max 0.140 in. thick lead discs compression fitted or adhered over steel screw heads. Lead discs to have a purity of 99.9% meeting the Federal Specification QQ-L-201F, Grade "B, C or D".

13. **Lead Batten Strips** – (Not Shown, For Use With Item 5E) – Lead batten strips, 2 in. wide, max 10 ft long with a max thickness of 0.142 in. Strips placed on the face of studs and attached to the stud with two min. 1 in. long min. Type S-8 pan head steel screws, one at the top of the strip and one at the bottom of the strip or with one min. 1 in. long min. Type S-8 pan head steel screw at the top of the strip. Lead batten strips to have a purity of 99.9% meeting the Federal specification QQ-L-201F, Grade "C". Lead batten strips required behind vertical joints of lead backed gypsum wallboard (Item 5E) and optional at remaining stud locations.

14. **Lead Tabs** – (Not Shown, For Use With Item 5B) – 2 in. wide, 5 in. long with a max thickness of 0.142 in. Tabs friction-fit around front face of stud, the stud folded back flange, and the back face of the stud. Tabs required at each location where a screw (that secures the gypsum boards, Item 5B) will penetrate the steel stud. Lead tabs to have a purity of 99.9% meeting the Federal specification QQ-L-201F, Grade "C". Lead tabs may be held in place with standard adhesive tape if necessary.

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

Last Updated on 2016-08-25

UL DESIGN NO. U419 CONTINUED

UNITED STATES GYPSUM CO – Type ULX

USG MEXICO S A DE CV – Type ULX

5J. **Gypsum Board** – (Not Shown) – (As an alternate to Item 5 when used as the base layer on one or both sides of wall with 1/2 in. or 5/8 in. thick products are specified, for direct attachment only to steel studs Item 2A, not to be used with Item 3). Nom 5/8 in. thick lead backed gypsum panels with beveled, square or tapered edges, applied vertically. Vertical joints centered over studs and staggered min 1 stud cavity on opposite sides of studs. Wallboard secured to studs with 1-1/4 in. long Type S-12 steel screws gypsum panel steel screws spaced 8 in. OC at perimeter and 12 in. OC in the field. Lead batten strips required behind vertical joints of lead backed gypsum wallboard and optional at remaining stud locations. Lead batten strips, min 2 in. wide, max 8 ft long with a max thickness of 0.14 in. placed on the face of studs and attached to the stud with construction adhesive and two 1 in. long Type S-12 pan head steel screws, one at the top of the strip and one at the bottom of the strip. Lead discs, nominal 3/8 in. diam by max 0.085 in. thick. Compression fitted or adhered over the screw heads. Lead batten strips and discs to have a purity of 99.9% meeting the Federal specification QQ-L-201F, Grade "C".

RADIATION PROTECTION PRODUCTS INC – Type RPP - Lead Lined Drywall

5K. **Gypsum Board** – (Not Shown) – (As an alternate to Item 5) – Nom. 5/8 in. thick gypsum panels with beveled, square or tapered edges, applied vertically or horizontally. Vertical joints centered over studs and staggered one stud cavity on opposite sides of studs. Vertical joints in adjacent layers (multilayer systems) staggered one stud cavity. Horizontal joints need not be backed by steel framing. Horizontal edge joints and horizontal butt joints on opposite sides of studs need not be staggered. Horizontal edge joints and horizontal butt joints in adjacent layers (multilayer systems) need not be staggered. The number of layers for the 1 hr, 2 hr, 3 hr and 4 hr ratings are as follows:

Rating, Hr	Min Stud Depth, in. Items 2 through 20	No. of Layers & Thkns of Panel	Min Thkns of Insulation (Item 4B)
1	3-5/8	1 layer, 5/8 in. thick	3-1/2 in.
2	1-5/8	2 layers, 5/8 in. thick	Optional
3	1-5/8	3 layers, 5/8 in. thick	Optional
4	1-5/8	4 layers, 5/8 in. thick	Optional

UNITED STATES GYPSUM CO – 5/8 in. thick Type ULX

6. **Fasteners** – (Not Shown) – For use with Items 2 and 2F - Type S or S-12 steel screws used to attach panels to studs (Item 2) or furring channels (Item 7). **Single layer systems:** 1 in. long for 1/2 and 5/8 in. thick panels or 1-1/4 in. long for 3/4 in. thick panels, spaced 8 in. OC when panels are applied horizontally, or 8 in. OC along vertical and bottom edges and 12 in. OC in the field when panels are applied vertically. **Two layer systems:** First layer: 1 in. long for 1/2 and 5/8 in. thick panels or 1-1/4 in. long for 3/4 in. thick panels, spaced 16 in. OC. Second layer: 1-5/8 in. long for 1/2 in., 5/8 in. thick panels or 2-1/4 in. long for 3/4 in. thick panels, spaced 16 in. OC with screws offset 8 in. from first layer. **Three-layer systems:** First layer: 1 in. long for 1/2 in., 5/8 in. thick panels, spaced 24 in. OC. Second layer: 1-5/8 in. long for 1/2 in., 5/8 in. thick panels, spaced 24 in. OC. Screws offset min 6 in. from layer below. **Four-layer systems:** First layer: 1 in. long for 1/2 in., 5/8 in. thick panels, spaced 24 in. OC. Second layer: 1-5/8 in. long for 1/2 in., 5/8 in. thick panels, spaced 24 in. OC. Third layer: 2-1/4 in. long for 1/2 in. thick panels or 2-5/8 in. long for 5/8 in. thick panels, spaced 24 in. OC. Fourth layer: 2-5/8 in. long for 1/2 in. thick panels or 3 in. long for 5/8 in. thick panels, spaced 12 in. OC. Screws offset min 6 in. from layer below.

6A. **Fasteners** – (Not Shown) – For use with Item 5K - Type S or S-12 steel screws used to attach panels to studs or furring channels (Item 7). Single layer systems: 1 in. long screws, spaced 8 in. OC when panels are applied horizontally, or 8 in. OC along vertical and bottom edges and 12 in. OC in the field when panels are applied vertically. Two layer systems: First layer: 1 in. long screws, spaced 16 in. OC. Second layer: 1-5/8 in. screws, spaced 8 in. OC.

UNITED STATES GYPSUM CO – Type ULX

USG MEXICO S A DE CV – Type ULX

5J. **Gypsum Board** – (Not Shown) – (As an alternate to Item 5 when used as the base layer on one or both sides of wall with 1/2 in. or 5/8 in. thick products are specified, for direct attachment only to steel studs Item 2A, not to be used with Item 3). Nom 5/8 in. thick lead backed gypsum panels with beveled, square or tapered edges, applied vertically. Vertical joints centered over studs and staggered min 1 stud cavity on opposite sides of studs. Wallboard secured to studs with 1-1/4 in. long Type S-12 steel screws gypsum panel steel screws spaced 8 in. OC at perimeter and 12 in. OC in the field. Lead batten strips required behind vertical joints of lead backed gypsum wallboard and optional at remaining stud locations. Lead batten strips, min 2 in. wide, max 8 ft long with a max thickness of 0.14 in. placed on the face of studs and attached to the stud with construction adhesive and two 1 in. long Type S-12 pan head steel screws, one at the top of the strip and one at the bottom of the strip. Lead discs, nominal 3/8 in. diam by max 0.085 in. thick. Compression fitted or adhered over the screw heads. Lead batten strips and discs to have a purity of 99.9% meeting the Federal specification QQ-L-201F, Grade "C".

RADIATION PROTECTION PRODUCTS INC – Type RPP - Lead Lined Drywall

5K. **Gypsum Board** – (Not Shown) – (As an alternate to Item 5) – Nom. 5/8 in. thick gypsum panels with beveled, square or tapered edges, applied vertically or horizontally. Vertical joints centered over studs and staggered one stud cavity on opposite sides of studs. Vertical joints in adjacent layers (multilayer systems) staggered one stud cavity. Horizontal joints need not be backed by steel framing. Horizontal edge joints and horizontal butt joints on opposite sides of studs need not be staggered. Horizontal edge joints and horizontal butt joints in adjacent layers (multilayer systems) need not be staggered. The number of layers for the 1 hr, 2 hr, 3 hr and 4 hr ratings are as follows:

Rating, Hr	Min Stud Depth, in. Items 2 through 20	No. of Layers & Thkns of Panel	Min Thkns of Insulation (Item 4B)
1	3-5/8	1 layer, 5/8 in. thick	3-1/2 in.
2	1-5/8	2 layers, 5/8 in. thick	Optional
3	1-5/8	3 layers, 5/8 in. thick	Optional
4	1-5/8	4 layers, 5/8 in. thick	Optional

UNITED STATES GYPSUM CO – 5/8 in. thick Type ULX

6. **Fasteners** – (Not Shown) – For use with Items 2 and 2F - Type S or S-12 steel screws used to attach panels to studs (Item 2) or furring channels (Item 7). **Single layer systems:** 1 in. long for 1/2 and 5/8 in. thick panels or 1-1/4 in. long for 3/4 in. thick panels, spaced 8 in. OC when panels are applied horizontally, or 8 in. OC along vertical and bottom edges and 12 in. OC in the field when panels are applied vertically. **Two layer systems:** First layer: 1 in. long for 1/2 and 5/8 in. thick panels or 1-1/4 in. long for 3/4 in. thick panels, spaced 16 in. OC. Second layer: 1-5/8 in. long for 1/2 in., 5/8 in. thick panels or 2-1/4 in. long for 3/4 in. thick panels, spaced 16 in. OC with screws offset 8 in. from first layer. **Three-layer systems:** First layer: 1 in. long for 1/2 in., 5/8 in. thick panels, spaced 24 in. OC. Second layer: 1-5/8 in. long for 1/2 in., 5/8 in. thick panels, spaced 24 in. OC. Screws offset min 6 in. from layer below. **Four-layer systems:** First layer: 1 in. long for 1/2 in., 5/8 in. thick panels, spaced 24 in. OC. Second layer: 1-5/8 in. long for 1/2 in., 5/8 in. thick panels, spaced 24 in. OC. Third layer: 2-1/4 in. long for 1/2 in. thick panels or 2-5/8 in. long for 5/8 in. thick panels, spaced 24 in. OC. Fourth layer: 2-5/8 in. long for 1/2 in. thick panels or 3 in. long for 5/8 in. thick panels, spaced 12 in. OC. Screws offset min 6 in. from layer below.

6A. **Fasteners** – (Not Shown) – For use with Item 5K - Type S or S-12 steel screws used to attach panels to studs or furring channels (Item 7). Single layer systems: 1 in. long screws, spaced 8 in. OC when panels are applied horizontally, or 8 in. OC along vertical and bottom edges and 12 in. OC in the field when panels are applied vertically. Two layer systems: First layer: 1 in. long screws, spaced 16 in. OC. Second layer: 1-5/8 in. screws, spaced 8 in. OC.



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Date	Description
2021.05.19	BP3 PROMENADE - ISSUE FOR PERMIT

RCRBP
Record Set
TC
07/10/2021

Seal / Signature



Project Name: 05.19.2021

SSRC | BASE AREA
IMPROVEMENTS

Project Number

003.7835.000

Description

U.L. ASSEMBLIES

Scale

12" = 1'-0"

1A-G4.002

UL DESIGN NO. X701

BXUV - Fire Resistance Ratings - ANSI/UL 263

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

See General Information for Fire-resistance Ratings - ANSI/UL 263

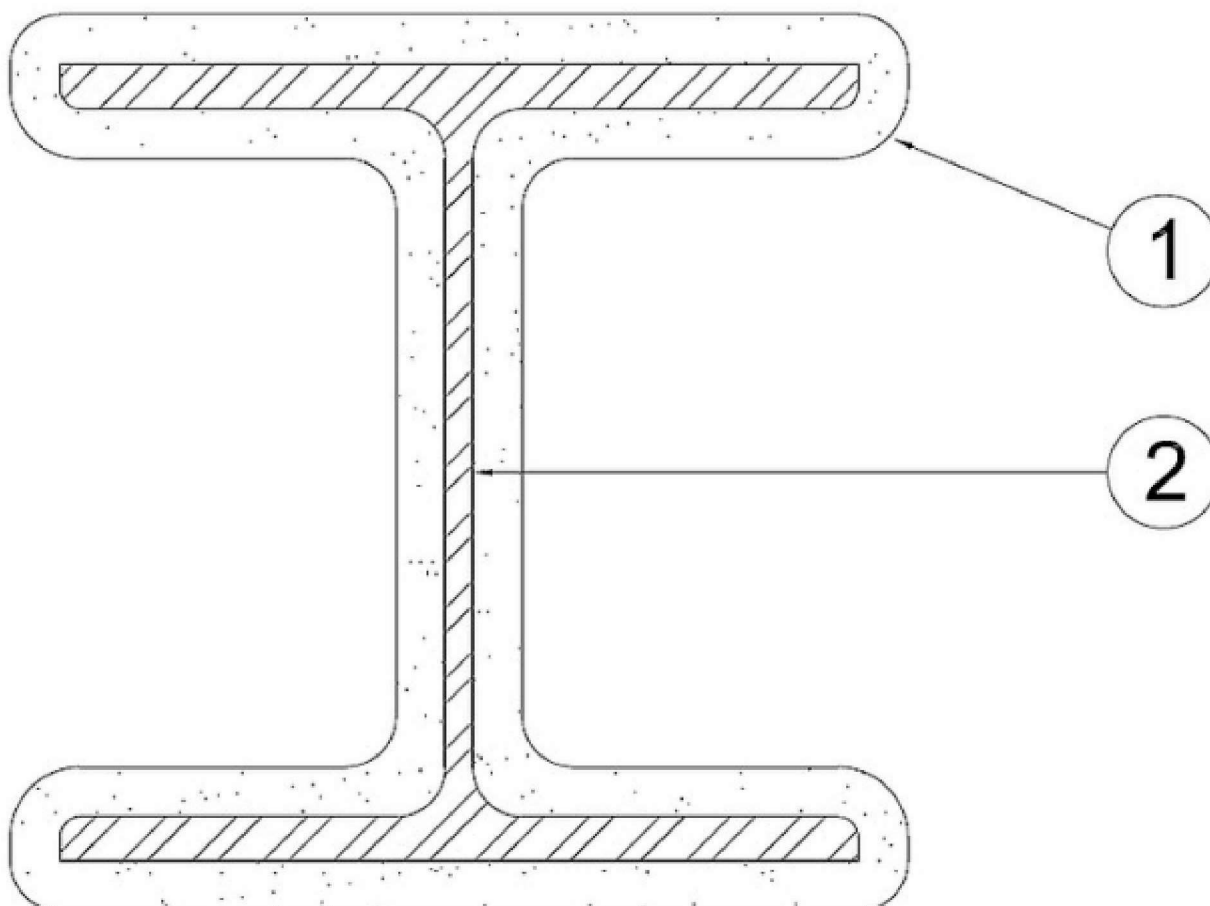
See General Information for Fire Resistance Ratings - CAN/ULC-S101 Certified for Canada

Design No. X701

May 23, 2016

Ratings — 1, 2, 3 and 4 Hr.

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



1. **Spray-Applied Fire Resistive Materials*** — See table below for appropriate thickness. Min avg and min ind density of 15/14 pdf respectively. Min avg and min ind density of 19/18 pdf respectively for Types 70P and 7HD. Min avg and min ind density of 40/36 pdf for Type AV650. Min avg and min ind density of 20/45 pdf for Type AV600. Min avg and min ind density of 22/19 pdf respectively for Types Z-106 and Z106/HY. Min avg and min ind density of 40/36 pdf for Type Z-146. For method of density determination, refer to Design Information Section, preceding these designs.

Rating Hr	Min Thkns In.
4	2-1/2
3	1-11/16
2	1-1/8
1-1/2	7/8
1	11/16

The thicknesses contained in the table below are applicable when the Spray-Applied Fire Resistive Materials applied to columns/flange tips are reduced to one-half that shown in the table below:

Rating Hr	Min Thkns In.
4	2-7/8
3	2-1/16
2	1-3/8
1-1/2	1-1/16
1	13/16

ARABIAN VERMICULITE INDUSTRIES — Types AV650 and AV600 evaluated for exterior exposure.

GCP KOREA INC — Types MK-6/CBF, MK-6/ED, MK-6/HY, MK-6S, Monokote Acoustic 1.

PYROK INC — Type LD.

SOUTHWEST FIREPROOFING PRODUCTS CO — Types 4, 5, SEF, SGP, SHD, 7GP, 7HD, BEF, 8GP, 8HD, 9EF, 9GP, 9HD.

GCP APPLIED TECHNOLOGIES INC — Types MK-6/HY, MK-6S, Monokote Acoustic 1, RG, Z-106, Z-106/HY and Z-146.

2. **Steel Column** — Minimum size of column, W10x49, with outside dimensions of 10x10 in., a flange thickness of 9/16 in., a web thickness of 5/16 in., and a cross-sectional area of 14.4 sq in.

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

Last Updated on 2016-05-23

UL DESIGN NO. U415 CONTINUED

8. **Laminating Adhesive*** — (Optional, Not Shown) — Used to bond outer layer of Cementitious Backer Units (Item 7) to inner layers of Gypsum Board (Item 4) in System D, ANSI A136.1 Type 1 organic adhesive applied with 1/4 in. square notched trowel. See Adhesives (BYWR) in the Fire Resistance Directory or Adhesives (BULZ) in the Building Materials Directory for names of Classified companies.

9. **Lead Batten Strips** — (Not Shown, For Use With Item 4A) — Lead batten strips, min 1-1/2 in. wide, max 10 ft long with a max thickness of 0.125 in. Strips placed on the interior face of studs and attached from the exterior face of the stud with two 1 in. long Type S-12 pan head steel screws, one at the top of the strip and one at the bottom of the strip. Lead batten strips to have a purity of 99.9% meeting the Federal specification QQ-L-2011, Grade "C". Lead batten strips required behind vertical joints of lead backed gypsum wallboard (Item 4A) and optional at remaining stud locations. Required behind vertical joints.

9A. **Lead Batten Strips** — (Not Shown, for use with Item 4C) — Lead batten strips, 2 in. wide, max 10 ft long with a max thickness of 0.140 in. Strips placed on the face of studs and attached to the stud with two min. 1 in. long min. Type S-8 pan head steel screws, one at the top of the strip and one at the bottom of the strip or with one min. 1 in. long min. Type S-8 pan head steel screw at the top of the strip. Lead batten strips to have a purity of 99.9% meeting the Federal specification QQ-L-2011, Grades "B, C, or D". Lead batten strips required behind vertical joints of lead backed gypsum wallboard (Item 6) and optional at remaining stud locations.

10. **Lead Discs or Tabs** — (Not Shown, For Use With Item 4A) — Used in lieu of or in addition to the lead batten strips (Item 9) or optional at other locations - Max 3/4 in. diam by max 0.125 in. thick lead disc compression fitted or adhered over steel screw heads or max 1/2 in. by 1-1/4 in. by max 0.125 in. thick lead tabs placed on gypsum boards (Item 4A) underneath screw locations prior to the installation of the screws. Lead discs or tabs to have a purity of 99.9% meeting the Federal specification QQ-L-2011, Grade "C".

10A. **Lead Discs** — (Not Shown, for use with Item 4C) — Max 5/16 in. diam by max 0.140 in. thick lead disc compression fitted or adhered over steel screw heads. Lead discs to have a purity of 99.9% meeting the Federal Specification QQ-L-2011, Grades "B, C or D".

11. **Lead Batten Strips** — (Not Shown, For Use With Item 4B) — Lead batten strips, 2 in. wide, max 10 ft long with a max thickness of 0.142 in. Strips placed on the face of studs and attached to the stud with two min. 1 in. long min. Type S-8 pan head steel screws, one at the top of the strip and one at the bottom of the strip or with one min. 1 in. long min. Type S-8 pan head steel screw at the top of the strip. Lead batten strips to have a purity of 99.9% meeting the Federal specification QQ-L-2011, Grade "C". Lead batten strips required behind vertical joints of lead backed gypsum wallboard (Item 4B) and optional at remaining stud locations.

12. **Lead Tabs** — (Not Shown, For Use With Item 4B) — 2 in. wide, 5 in. long with a max thickness of 0.142 in. Tabs friction-fit around front face of stud, the stud folded back flange, and the back face of the stud. Tabs required at each location where a screw (that secures the gypsum boards, Item 4B) will penetrate the steel stud. Lead tabs to have a purity of 99.9% meeting the Federal specification QQ-L-2011, Grade "C". Lead tabs may be held in place with standard adhesive tape if necessary.

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

Last Updated on 2016-07-14

UL DESIGN NO. I503

Design No. I503

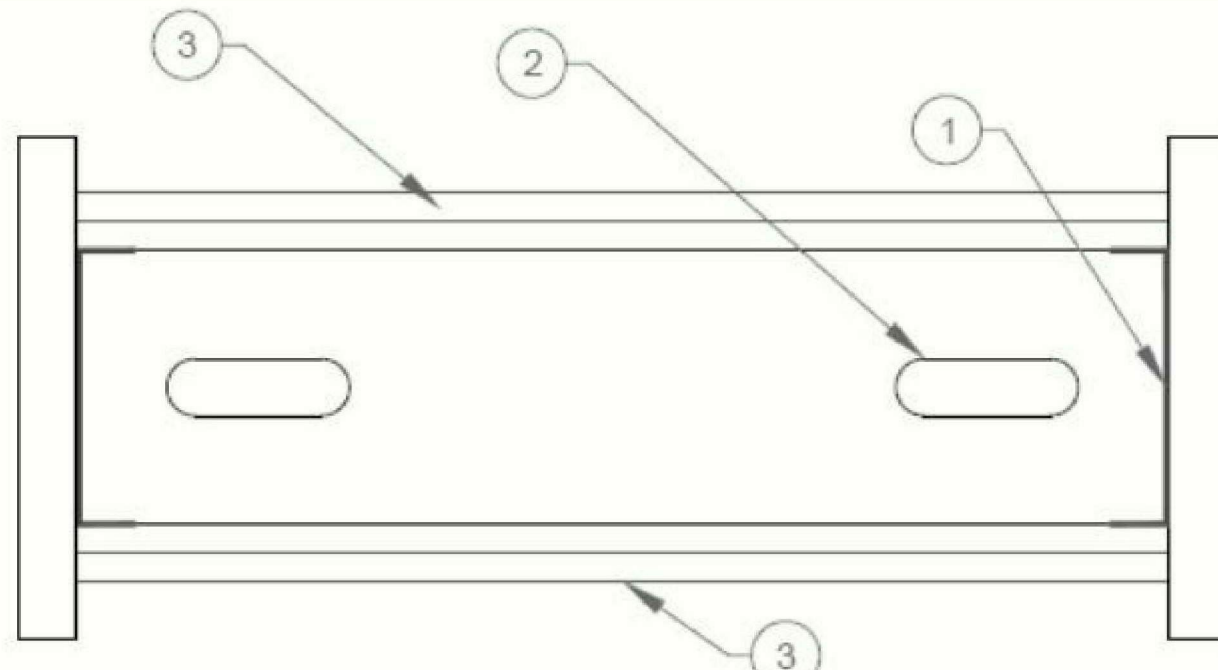
July 23, 2020

Ceiling Membrane Rating - 2 Hr.

Load Restriction - Limited to the Dead Weight of the Assembly.

Indicates item is shown for illustrative purposes only as that item may be tested and certified to a standard other than UL 263.

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



1. **Supporting Structure** — Fire-resistance rated. Suitable point of attachment of Perimeter Channels (Item 2).

2. **Perimeter Channels** — Used to support steel joists at both ends of structure. Min. 6 in. deep with min. 1-3/8 in. legs and formed from min. No. 16 MSG galv. steel (0.053 in. thick bare metal thickness). Perimeter channels attached to a fire-resistant rated supporting structure (Item 1) with fasteners spaced not greater than 18 in. O.C. at both the top and bottom of the vertical leg. Maximum clear span from vertical leg to vertical leg of the perimeter channels is 8 ft.

2A. **Steel Joists** — Min. 6 in. wide with min. 1-5/8 in. legs containing folded back flanges and formed from min. No. 16 MSG galv. steel (0.053 in. thick bare metal thickness). Studs to be cut 1/2 in. to 3/4 in. less than the clear span between the vertical legs of the perimeter channels. Studs spaced a max. 16 in. O.C. At each end of the stud, the un-faced side shall be secured to the perimeter channel with one 1/2 in. long pan-head steel screw. Studs are used at each end of the horizontal barrier to terminate the assembly at the adjoining wall.

3. **Gypsum Board*** — Two layers of nom. 5/8 in. thick, 46 to 54 in. wide, gypsum board installed with long dimension perpendicular to the steel studs. Base layer installed with end joints in adjacent rows staggered min. 64 in. Boards secured to studs and perimeter channels with 1-1/4 in. long Type S steel screws spaced max. 12 in. O.C. at perimeter and max. 16 in. O.C. in the field. Face layer installed with end joints in adjacent rows staggered min. 32 in. Boards secured to the studs and perimeter channels with 1-7/8 in. long Type S steel screws spaced max. 12 in. O.C. at perimeter and max. 16 in. O.C. in the field. Face layer joints staggered min. 16 in. from base layer joints. Face layer long edge joints staggered min. 8 in. from base layer joints. AMERICAN GYPSUM CO — Type AG-C.

UNITED STATES GYPSUM CO — Type C

USG BORAL DRYWALL SFC LLZ — Type C

4. **Joint Tape and Compound** — Not Shown — Vinyl, dry or premixed joint compound, applied in two coats to joints and screw heads; paper tape, nom. 2 in. wide, embedded in first layer of compound over all joints.

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

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UL DESIGN NO. U415 CONTINUED

System F — 2 Hr

Gypsum panels, with beveled, square or tapered edges, nom 1/2 in. or 5/8 in. thick, 48 in. or 1200 mm wide, applied vertically in two layers. Inner or base layer attached to resilient furring channels (Item 2B) with 1-5/8 in. long Type S steel screws spaced 24 in. O.C. and staggered 12 in. from base layer screws. Joints between inner and outer layers staggered 24 in.

CGC INC — 1/2 in. Type C, IP-X2, IPC-AR or WRC; 5/8 in. Types AR, C, FRX-G, IP-AR, IP-X1, IP-X2, IPC-AR, SCX, SHX, ULX, USGX, WRC, WRX

UNITED STATES GYPSUM CO — 1/2 in. Type C, IP-X2, IPC-AR or WRC; 5/8 in. Types AR, C, FRX-G, IP-AR, IP-X1, IP-X2, IPC-AR, SCX, SHX, ULX, USGX, WRC, WRX.

USG BORAL ZAWAWI DRYWALL L L C SFCZ — 1/2 in. Type C; 5/8 in. Types C, SCX

USG MEXICO S A DE C V — 1/2 in. Types C, IP-X2, IPC-AR or WRC; 5/8 in. Types AR, C, IP-AR, IP-X1, IP-X2, IPC-AR, SCX, SHX, ULX, USGX, WRC, WRX

System G — 3 Hr

Gypsum panels, with beveled, square or tapered edges, nom 5/8 in. thick, 48 in. or 1200 mm wide, applied vertically or horizontally, two layers over the flange of the "C" section of the studs, one layer over the flange of the "H" section of the studs. Inner or base layer attached to studs with 1 in. long Type S steel screws spaced 24 in. O.C. when installed vertically or 16 in. O.C. when installed horizontally. Middle layer attached to studs with 1-5/8 in. long Type S steel screws spaced 24 in. when installed vertically or 16 in. O.C. when installed horizontally. Outer or face layer attached to studs with 2-1/4 in. long Type S steel screws spaced 16 in. when installed vertically or 12 in. O.C. when installed horizontally. Screws offset 6 in. from layer below. Horizontal joints on adjacent layers staggered a min of 12 in. Horizontal joints need not be backed by steel framing. Vertical joints centered over studs and staggered 24 in. on adjacent layers.

CGC INC — Types C, IP-X2, IPC-AR, WRC

UNITED STATES GYPSUM CO — Types C, IP-X2, IPC-AR, WRC

USG BORAL ZAWAWI DRYWALL L L C SFCZ — Type C

USG MEXICO S A DE C V — Types C, IP-X2, IPC-AR, WRC

System H — 3 Hr

Gypsum panels, with beveled, square or tapered edges, nom 5/8 in. thick, 48 in. or 1200 mm wide, applied vertically or horizontally, two layers over the flange of the "C" section of the studs, one layer over the flange of the "H" section of the studs. Inner or base layer attached to studs with 1 in. long Type S steel screws spaced 24 in. O.C. when installed vertically or 16 in. O.C. when installed horizontally. Face layer attached to studs with 1-5/8 in. long Type S steel screws spaced 16 in. when installed vertically or 12 in. O.C. when installed horizontally. Screws offset 6 in. from layer below. Horizontal joints on adjacent layers staggered a min of 12 in. Horizontal joints need not be backed by steel framing. Vertical joints centered over studs and staggered 24 in. on adjacent layers.

CGC INC — Types C, IP-X2, IPC-AR, WRC

UNITED STATES GYPSUM CO — Types C, IP-X2, IPC-AR, WRC

USG BORAL ZAWAWI DRYWALL L L C SFCZ — Type C

USG MEXICO S A DE C V — Types C, IP-X2, IPC-AR, WRC

System I — 4 Hr

Gypsum panels, with beveled, square or tapered edges, nom 3/4 in. thick, 4 ft wide (or 1200 mm for metric spacing) wallboard with square or tapered edges. Total of four layers to be used. First and second (inner) layers applied vertically or horizontally over the steel studs. Horizontal joints need not be backed by steel framing. When applied vertically, joints centered over studs and staggered min 24 in. otherwise all joints staggered min 12 in. First layer secured to studs with 1-1/4 in. long Type S self-drilling, self-tapping bugle-head steel screws spaced 24 in. O.C. Second layer secured to studs with 2-1/4 in. long Type S self-drilling, self-tapping bugle-head steel screws spaced 12 in. O.C. Third layer applied vertically over the furring channels (Item 2C) with 1-1/4 in. long Type S self-drilling, self-tapping bugle-head steel screws spaced 12 in. O.C. Fourth layer applied vertically or horizontally with 2-1/4 in. long Type S self-drilling, self-tapping bugle-head steel screws spaced 12 in. O.C. When applied vertically, joints to be staggered min 24 in. from third layer, otherwise all joints staggered min 12 in.

CGC INC — Types IP-X3 or ULTRACODE

UNITED STATES GYPSUM CO — Types IP-X3 or ULTRACODE

Systems A, B, E, F, G, H, I

(Optional) — Mineral wool or glass fiber batts partially or completely filling stud cavity. Any mineral wool or glass fiber batt mineral bearing the UL Classification Marking as to Fire Resistance.

System A With Type ULIX Gypsum Boards

Placed in stud cavities, any min. 3-1/2 in. thick glass fiber insulation bearing the UL Classification Marking as to Surface Burning Characteristics and/or Fire Resistance. See **Batts and Blankets (BKNV or BZ12) Categories** for names of Classified companies.

Systems C & D

Min 3 in. (System C) and min 1-1/2 in. (System D) thick mineral wool batts, friction fitted between the studs and floor and ceiling runners.

ROXUL INC — Type AFB

THERMAFIBER INC — Type SAFB

7. **Cementitious Backer Units*** — (System D) — Nom 1/2 or 5/8 in. thick panels, square edge, attached to studs over gypsum wallboard with 1-5/8 in. long, Type S-12, corrosion resistant steel screws spaced 8 in. O.C. and staggered 8 in. from gypsum wall board screws. Joints covered with glass fiber mesh tape. Vertical joints staggered one stud cavity from gypsum wallboard joints. Horizontal joints staggered a min of 12 in. from the gypsum wallboard joints.

UNITED STATES GYPSUM CO — Type DCB

base layer, for direct attachment only) — Nom 5/8 or 3/4 in. thick lead backed gypsum panels with beveled, square or tapered edges, applied vertically. Vertical joints centered over 20 MSG steel studs and staggered min 1 stud cavity on opposite sides of studs. See Items 1, 2, 2A, 2B and 2D. Wallboard secured to studs with 1-1/4 in. long Type S-12 steel screws spaced 8 in. O.C. at perimeter and 12 in. O.C. in the field. For Joint Compound see Item 5. To be used with Lead Batten Strips (see Item 9A) or Lead Discs (see Item 10A). Lead batten strips required behind vertical joints of lead backed gypsum wallboard and optional at remaining stud locations. Lead batten strips, min 2 in. wide, max 10 ft long with a max thickness of 0.140 in. placed on the face of studs and attached to the stud with two 1 in. long Type S-8 pan head steel screws, one at the top of the strip and one at the bottom of the strip.

MAYCO INDUSTRIES INC — Type X-Ray Shielded Gypsum

4D. **Gypsum Board*** — (As an alternate to Item 4 Systems A, B, C, D, E, G, H, and I when used as the base layer, for direct attachment only) — Nom 5/8 in. thick lead backed gypsum panels with beveled, square or tapered edges, applied vertically. Vertical joints centered over 20 MSG steel studs and staggered min 1 stud cavity on opposite sides of studs. Wallboard secured to studs with 1-1/4 in. long Type S-12 steel screws gypsum panel steel screws spaced 8 in. O.C. at perimeter and 12 in. O.C. in the field. Lead batten strips required behind vertical joints of lead backed gypsum wallboard and optional at remaining stud locations. Lead batten strips, min 2 in. wide, max 8 ft long with a max thickness of 0.14 in. placed on the face of studs and attached to the stud with construction adhesive and two 1 in. long Type S-12 pan head steel screws, one at the top of the strip and one at the bottom of the strip. Lead discs, nominal 3/8 in. diam by max 0.085 in. thick. Compression fitted or adhered over the screw heads. Lead batten strips and discs to have a purity of 99.9% meeting the Federal specification QQ-L-2011, Grade "C".

RADIATION PROTECTION PRODUCTS INC — Type RPP - Lead Lined Drywall

5. Joint Tape and Compound — (Not Shown)

Systems A, B, C, E, F, G, H, I

Joints on outer layers of gypsum boards (Item 4 and 4A) covered with paper tape and joint compound. Paper tape and joint compound may be omitted when gypsum boards are supplied with square edges. Exposed screw heads covered with joint compound.

6. Batts and Blankets*

Systems A, B, E, F, G, H, I

(Optional) — Mineral wool or glass fiber batts partially or completely filling stud cavity. Any mineral wool or glass fiber batt mineral bearing the UL Classification Marking as to Fire Resistance.

System A With Type ULIX Gypsum Boards

Placed in stud cavities, any min. 3-1/2 in. thick glass fiber insulation bearing the UL Classification Marking as to Surface Burning Characteristics and/or Fire Resistance. See **Batts and Blankets (BKNV or BZ12) Categories** for names of Classified companies.

Systems C & D

Min 3 in. (System C) and min 1-1/2 in. (System D) thick mineral wool batts, friction fitted between the studs and floor and ceiling runners.

ROXUL INC — Type AFB

THERMAFIBER INC — Type SAFB

7. **Cementitious Backer Units*** — (System D) — Nom 1/2 or 5/8 in. thick panels, square edge, attached to studs over gypsum wallboard with 1-5/8 in. long, Type S-12, corrosion resistant steel screws spaced 8 in. O.C. and staggered 8 in. from gypsum wall board screws. Joints covered with glass fiber mesh tape. Vertical joints staggered one stud cavity from gypsum wallboard joints. Horizontal joints staggered a min of 12 in. from the gypsum wallboard joints.

UNITED STATES GYPSUM CO — Type DCB

UL DESIGN NO. U415 CONTINUED

4. Gypsum Board*

System A — 1 Hr

Gypsum panels, with beveled, square or tapered edges, nom 5/8 in. thick, 48 in. or 1200 mm wide, applied vertically or horizontally, attached to studs with 1 in. long Type S steel screws spaced 12 in. when installed vertically or 8 in. O.C. when installed horizontally. Horizontal joints need not be backed by steel framing.

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

UNITED STATES GYPSUM CO — Types AR, C, FRX-G, IP-AR, IP-X1, IP-X2, IPC-AR, SCX, SGX, SHX, ULX, ULX, WRC, WRX, USGX, WRC, WRX. When ULIX is used insulation, Item 6, **Batts and Blankets*** is required and minimum stud depth is 4 in.

USG BORAL ZAWAWI DRYWALL L L C SFCZ — Types C, SCX

USG MEXICO S A DE C V — Types AR, C, IP-AR, IP-X1, IP-X2, IPC-AR, SCX, SHX, ULX, USGX, WRC, WRX

System B — 2 Hr

Gypsum panels, with beveled, square or tapered edges, nom 1/2 in. or 5/8 in. thick, 48 in. or 1200 mm wide, applied vertically or horizontally in two layers. Inner or base layer attached to studs with 1 in. long Type S steel screws spaced 24 in. O.C. when installed vertically or 16 in. O.C. when installed horizontally. Outer or face layer attached to studs with 1-5/8 in. long Type S steel screws spaced 12 in. O.C. when installed vertically and staggered 12 in. from base layer screws or 8 in. O.C. when installed horizontally and staggered 8 in. from base layer screws. Horizontal joints between inner and outer layers staggered a min of 12 in. Horizontal joints need not be backed by steel framing. Vertical joints centered over studs and staggered 24 in.

CGC INC — 1/2 in. Type C, IP-X2, IPC-AR or WRC; 5/8 in. Types AR, C, IP-AR, IP-X1, IP-X2, IPC-AR, SCX, SHX, ULX, USGX, WRC, WRX

UNITED STATES GYPSUM CO — 1/2 in. Types C, IP-X2, IPC-AR, or WRC; 5/8 in. Types AR, C, FRX-G, IP-AR, IP-X1, IP-X2, IPC-AR, SCX, SGX, SHX, ULX, ULX, USGX, WRC, WRX.

USG BORAL ZAWAWI DRYWALL L L C SFCZ — 1/2 in. Type C; 5/8 in. Types C, SCX

USG MEXICO S A DE C V — 1/2 in. Types C, IP-X2, IPC-AR or WRC; 5/8 in. Types AR, C, IP-AR, IP-X1, IP-X2, IPC-AR, SCX, SHX, ULX, USGX, WRC, WRX

System C — 2 Hr

Gypsum panels, with beveled, square or tapered edges, nom 3/4 in. thick, 48 in. or 1200 mm wide, applied vertically or horizontally, secured with 1-1/4 in. long Type S steel screws spaced 8 in. O.C. along vertical edges and 12 in. O.C. in the field when installed vertically or 8 in. O.C. along the vertical edges and in the field when installed horizontally. Horizontal joints need not be backed by steel framing. Screws along side joints offset 4 in. Requires min 4 in. deep framing per Items 1, 2 and 3. Requires min 3 in. thick mineral wool batts per Item 6.

CGC INC — Types IP-X3 or ULTRACODE

UNITED STATES GYPSUM CO — Types IP-X3 or ULTRACODE

USG BORAL ZAWAWI DRYWALL L L C SFCZ — Type ULTRACODE

USG MEXICO S A DE C V — Types IP-X3 or ULTRACODE

System D — 2 Hr

Gypsum panels, with beveled, square or tapered edges, nom 5/8 in. thick, 48 in. or 1200 mm wide, applied vertically or horizontally, attached directly to studs with 1 in. long Type S steel screws spaced 24 in. when installed vertically or 16 in. O.C. when installed horizontally. Horizontal joints need not be backed by steel framing. Requires face layer of 1/2 or 5/8 in. thick cementitious backer units per Item 7 and min 1-1/2 in. thick mineral wool batts per Item 6.

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

UNITED STATES GYPSUM CO — Types AR, C, FRX-G, IP-AR, IP-X1, IP-X2, IPC-AR, SCX, SGX, SHX, ULX, ULX, USGX, WRC, WRX.

USG BORAL ZAWAWI DRYWALL L L C SFCZ — Types C, SCX

USG MEXICO S A DE C V — Types AR, C, IP-AR, IP-X1, IP-X2, IPC-AR, SCX, SHX, ULX, USGX, WRC, WRX

System E — 2 Hr

Gypsum panels, with beveled, square or tapered edges, nom 1/2 in. or 5/8 in. thick, 48 in. or 1200 mm wide, applied vertically or horizontally, attached to studs with 1 in. long Type S steel screws spaced 12 in. O.C. when installed vertically or 8 in. when installed horizontally. Horizontal joints need not be backed by steel framing.

CGC INC — 1/2 in. Types C, IP-X2, IPC-AR; 5/8 in. Types AR, C, IP-AR, IP-X1, IP-X2, IPC-AR, SCX, SHX, ULX, USGX, WRC, WRX

UNITED STATES GYPSUM CO — 1/2 in. Types C, IP-X2, IPC-AR; 5/8 in. Types AR, C, FRX-G, IP-AR, IP-X1, IP-X2, IPC-AR, SCX, SGX, SHX, ULX, ULX, USGX, WRC, WRX.

USG BORAL ZAWAWI DRYWALL L L C SFCZ — 1/2 in. Type C; 5/8 in. Types C, SCX

UL DESIGN NO. HW-D-1001

System No. HW-D-1001

October 21, 2015

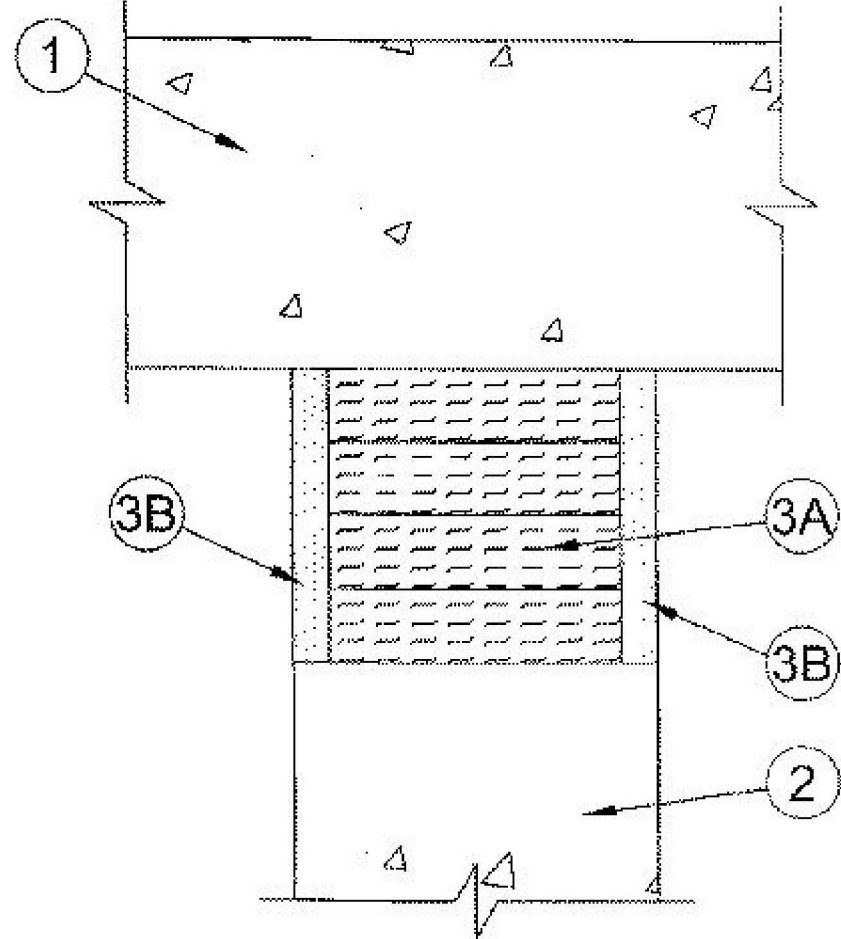
Assembly Ratings — 1, 2 & 3 Hr (See Item 1)

L Rating At Ambient — Less Than 1 CFM/LIN Ft

L Rating At 400 F — Less Than 1 CFM/LIN Ft

Nominal Joint Width — 4 In.

Class II Movement Capabilities — 25% Compression Or Extension



1. **Floor Assembly** — Lightweight or normal weight reinforced (100-150 pcf or 1600-2400 kg/m³) structural concrete. The hourly rating of the joint system is dependent upon the min thickness of the floor as tabulated below:

Min Thickness of Floor, In (mm)	Assembly Rating, Hr
2-1/2 (64)	1
3-1/4 (83)	2
4-1/2 (114)	3

2. **Wall Assembly** — Min 5 in. (127 mm) thick reinforced lightweight or normal weight (100-150 pcf or 1600-2400 kg/m³) structural concrete. Wall may also be constructed of any UL Classified **Concrete Blocks***.

See **Concrete Blocks** (CAZT) category in the Fire Resistance Directory for names of manufacturers.

3. **Joint System** — Max separation between bottom of floor and top of wall (at time of installation of joint system) is 4 in. (102 mm). The joint system is designed to accommodate

max 25 percent compression or extension from its installed width. The joint system shall consist of the following:

A. **Forming Material*** — Min 4 pcf (64 kg/m³) mineral wool batt insulation installed in joint opening as a permanent form. Pieces of batt cut to min width of 4 in. (102 mm) and installed edge-first into joint opening, parallel with joint direction, such that batt sections are compressed min 50 percent in thickness and such that the compressed batt sections are recessed from each surface of the wall to accommodate the required thickness of fill material. Adjoining lengths of batt to be tightly butted with butted seams spaced min 16 in. (406 mm) apart along the length of the joint.

INDUSTRIAL INSULATION GROUP L L C — MinWool-1200 Saffing

JOHNS MANVILLE — Safing

ROCK WOOL MANUFACTURING CO — Delta Board

ROCKWOOL MALAYSIA SDN BHD — SAFE

ROXUL INC — SAFE

THERMAFIBER INC — Type SAF

B. **Fill, Void or Cavity Material*** — Min 1/2 in. (13 mm) thickness of fill material installed within joint on each side of the wall, flush with each surface of wall.

SPECIFIED TECHNOLOGIES INC — Pensil 300 Sealant or SpecSeal Series STL300 Sealant

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

Last Updated on 2015-10-21



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Date	Description
2021.05.19	BP3: PROMENADE - ISSUE FOR RECORD PERMIT

RCRBD
Record Set
TC
07/10/2021

Seal / Signature



Project Name 05.19.2021

SSRC | BASE AREA
IMPROVEMENTS

Project Number

003.7835.000

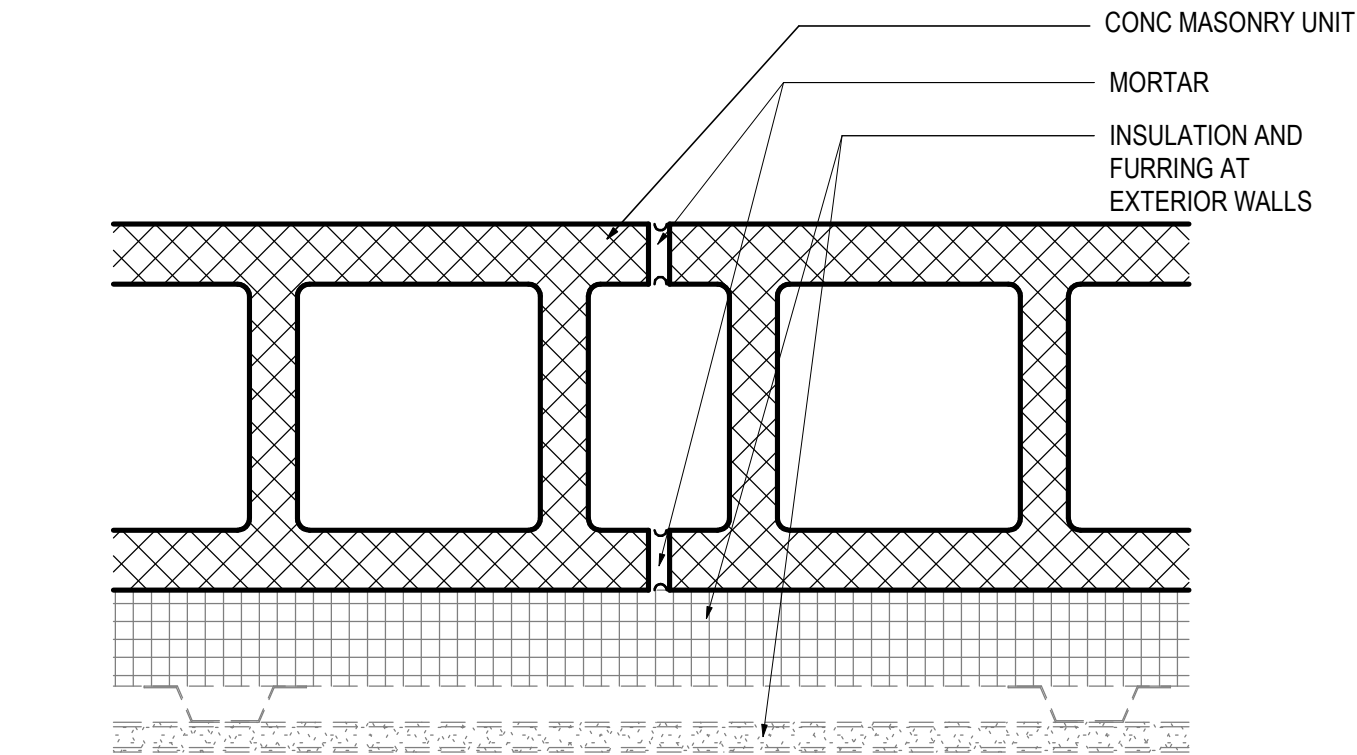
Description

U.L. ASSEMBLIES

Scale

12" = 1'-0"

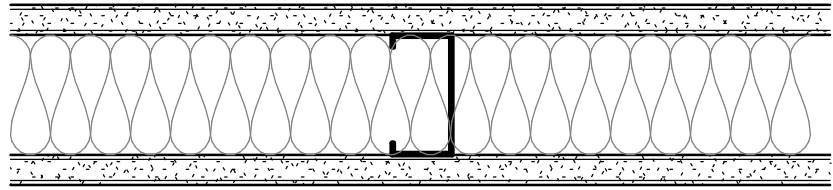
1A-G4.005



PARTITION TYPE MARK	CMU THK (IN)	DETAILS				FIRE RTG	TESTED ASSEMBLY	STC RTG	SHEET NOTES
		TOP	BOT	FIRE RTG	TESTED ASSEMBLY				
MBA	8"	M-T01	M-B01	1	HW-D-1001				
MBB	8"	M-T02	M-B01						

05 M SERIES PARTITION TYPES

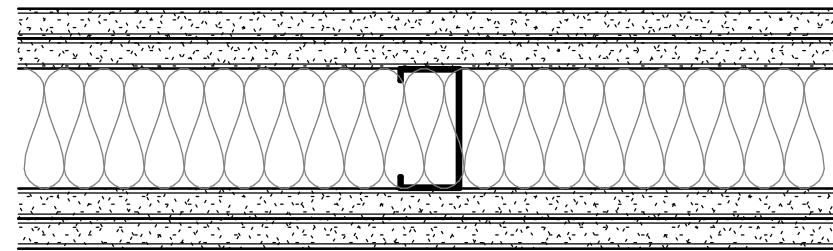
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PARTITION TYPE MARK	THK (IN)	FRAMING		DETAILS		ATTN THK	FIRE RTG	TESTED ASSEMBLY	STC RTG	SHEET NOTES
		DEPTH	SPACING	TOP	BOT					
A3A	.0312	3 5/8"	16 OC	A-T01	A-B01					
A3B	.0312	3 5/8"	16 OC	A-T01	A-B01	3 5/8"			60	
A6C	.0312	6"	16 OC	A-T01	A-B01	6"	1	U419	60	

01 A SERIES PARTITION TYPES

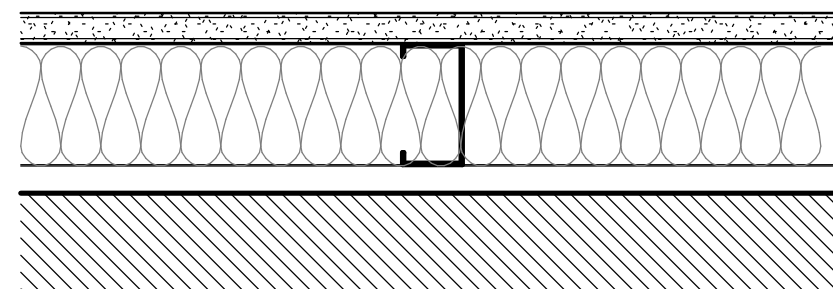
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PARTITION TYPE MARK	THK (IN)	FRAMING		DETAILS		ATTN THK	FIRE RTG	TESTED ASSEMBLY	STC RTG	SHEET NOTES
		DEPTH	SPACING	TOP	BOT					
B6C	.0312	6"	16 OC	B-T01	B-B02		1	U419		

02 B SERIES PARTITION TYPES

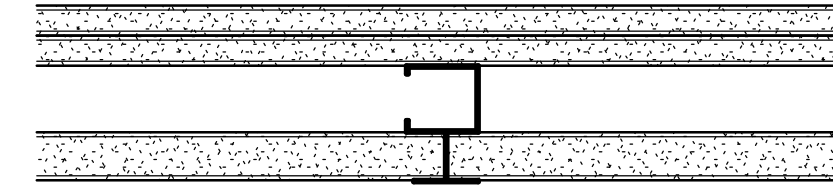
SCALE: 3" = 1'-0"



PARTITION TYPE MARK	THK (IN)	FRAMING		DETAILS		ATTN THK	FIRE RTG	TESTED ASSEMBLY	STC RTG	SHEET NOTES
		DEPTH	SPACING	TOP	BOT					
D3A	.0312	3 5/8"	16 OC	D-T01	D-B01					
D6A	.0312	6"	16 OC	D-T01	D-B01					

03 D SERIES PARTITION TYPES

SCALE: 3" = 1'-0"



PARTITION TYPE MARK	THK (IN)	FRAMING		DETAILS		ATTN THK	FIRE RTG	TESTED ASSEMBLY	STC RTG	SHEET NOTES
		DEPTH	SPACING	TOP	BOT					
J4A	.0312	4"	16 OC	J-T02	J-B01		1	U415		

04 J SERIES PARTITION TYPES

SCALE: 3" = 1'-0"

PARTITION NOTES

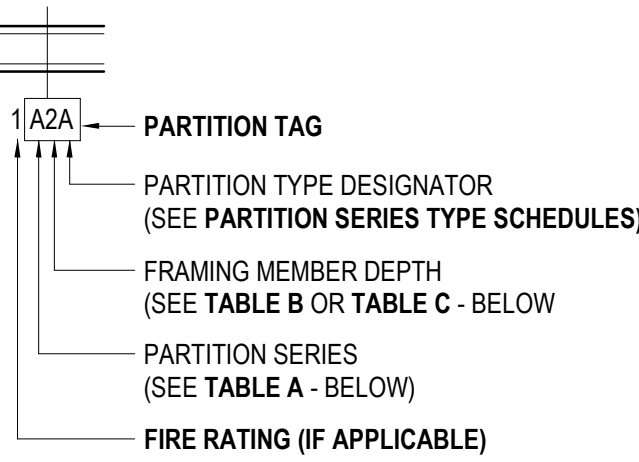


TABLE A- PARTITION SERIES CONSTRUCTION ASSEMBLY

SERIES	SHEATHING	FRAMING MEMBERS	SHEATHING
A	1-LAYER	METAL C-STUD	1-LAYER
B	2-LAYERS	METAL C-STUD	2-LAYERS
C	1-LAYER	METAL C-STUD	2-LAYERS
D	1-LAYER	METAL C-STUD	NONE
E	2-LAYERS	METAL C-STUD	NONE
F	1-LAYER	MTL HAT CHANNEL	NONE
G	1-LAYER	NONE	NONE
H	1-LAYER	METAL C-H STUD	NONE
J	2-LAYERS	METAL C-H STUD	LINER PNL
K	1-LAYER	(2) METAL C-STUDS	1-LAYER
L	2-LAYERS	(2) METAL C-STUDS	2-LAYERS
M	NONE	CMU	NONE
N-U	RESERVED FOR FUTURE EXPANSION		
V-Z	CUSTOM	N/A	N/A

TABLE B- FRAMING DEPTH SCHEDULE

TAG NUMBER	MTL STUD DEPTH	MTL C-H STUD DEPTH	WOOD STUD DEPTH
-	NO FRAMING		
0	7/8" FURRING CHANNEL	N/A	N/A
1	1 5/8"	N/A	N/A
2	2 1/2"	2 1/2"	N/A
3	3 5/8"	N/A	N/A
4	4"	4"	3 1/2"
6	6"	6"	5 1/2"
8	8"	N/A	7 1/4"
10	10"	N/A	9 1/4"

TABLE C- MASONRY WIDTH SCHEDULE

TAG NUMBER	CMU WIDTH
4	3 5/8"
6	5 5/8"
8	7 5/8"
10	9 5/8"
12	11 5/8"

STEEL SHEET THICKNESS FOR STUDS AND RUNNERS

Gauge*	MIN. STEEL BASE METAL THICKNESS (UNCOATED)		
	INCH	MILS	MM
12	0.1017	97	X
14	0.0713	68	X
16	0.0566	54	1.34
18	0.0451	43	1.09
20	0.0312	30	0.84
22	0.0270	27	0.68
25	0.0179	18	0.45

*GAUGE 16, 18 USED FOR STRUCTURAL FRAMING; 20, 22, AND 25 USED FOR NON-STRUCTURAL FRAMING

*USE OF DIMPLED STEEL STUDS ACCEPTABLE PROVIDED CONTRACTOR SUPPLIES DOCUMENTATION PROVING THE EQUIVALENT MINIMUM BASE METAL THICKNESS IS ACHIEVED

GENERAL NOTES

GN-01. PARTITION TYPES ARE NOT SEQUENTIAL.

GN-02. ALL PARTITION SHEATHING TO BESIB® GYPSUM BOARD UNLESS OTHERWISE NOTED.

GN-03. REFER TO G5.001 SERIES FOR TOP OF PARTITION AND G5.001 SERIES FOR BOTTOM OF PARTITION CONDITIONS LISTED IN PARTITION SCHEDULE

GN-04. ALL PARTITIONS SHALL BE COORDINATED WITH SCHEDULED FINISHES FOR PARTITION LAYOUT AND REQUIRED CLEARANCES.

GN-05. PROVIDE BLOCKING IN PARTITIONS FOR ARTWORK HANGING AS INDICATED. SEE CONSTRUCTION PLANS AND/OR INTERIOR ELEVATIONS FOR LOCATIONS.

GN-06. FOR INTERIOR FRAMING LIMITING HEIGHTS REFER TO SSMA TABLES FOR INTERIOR NON-STRUCTURAL NON-COMPOSITE PARTITIONS

GN-07. CONTRACTOR TO RE-CONFIRM STUD SIZING AND SUBMIT SELECTION CRITERIA FOR REVIEW INCLUDING DELINEATION OF SLAB TO UNDERSIDE OF SLAB INFORMATION

GN-08. ALL STUD CAVITIES TO HAVE ACOUSTICAL BATT INSULATION AS MINIMUM. WALLS NOT IDENTIFIED IN SCHEDULE AS HAVING INSULATION TO HAVE MINIMUM THICKNESS OF ACOUSTICAL INSULATION (1 5/8" STUD = 1" INSULATION; 3 5/8" STUD = 3 1/2" INSULATION; 6" STUD = 5 1/2" INSULATION). REFER TO SCHEDULE TO PROVIDE INSULATION CRITERIA EXCEEDING THIS MINIMUM.



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Project Name 05.19.2021

SSRC | BASE AREA
IMPROVEMENTS

Project Number

003.7835.000

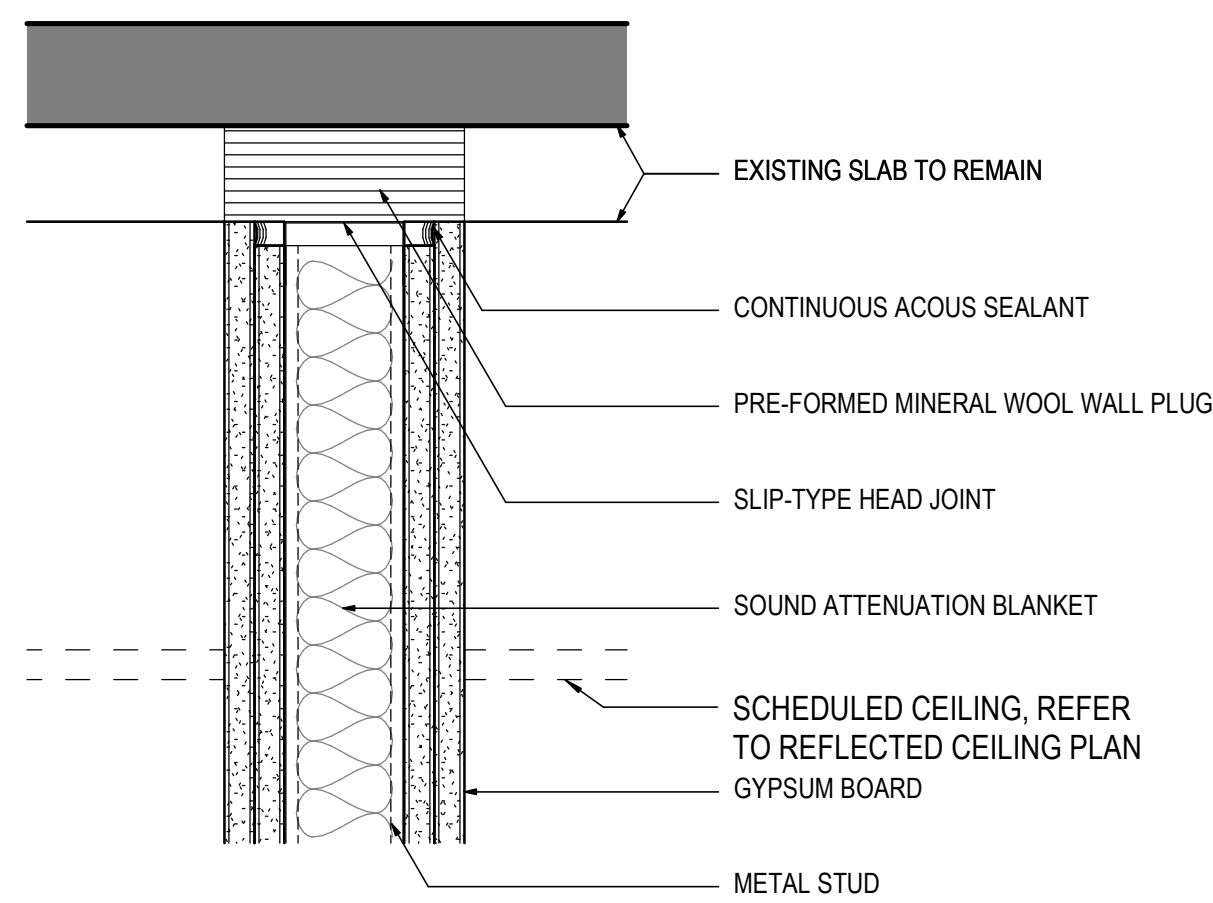
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PARTITION SCHEDULES

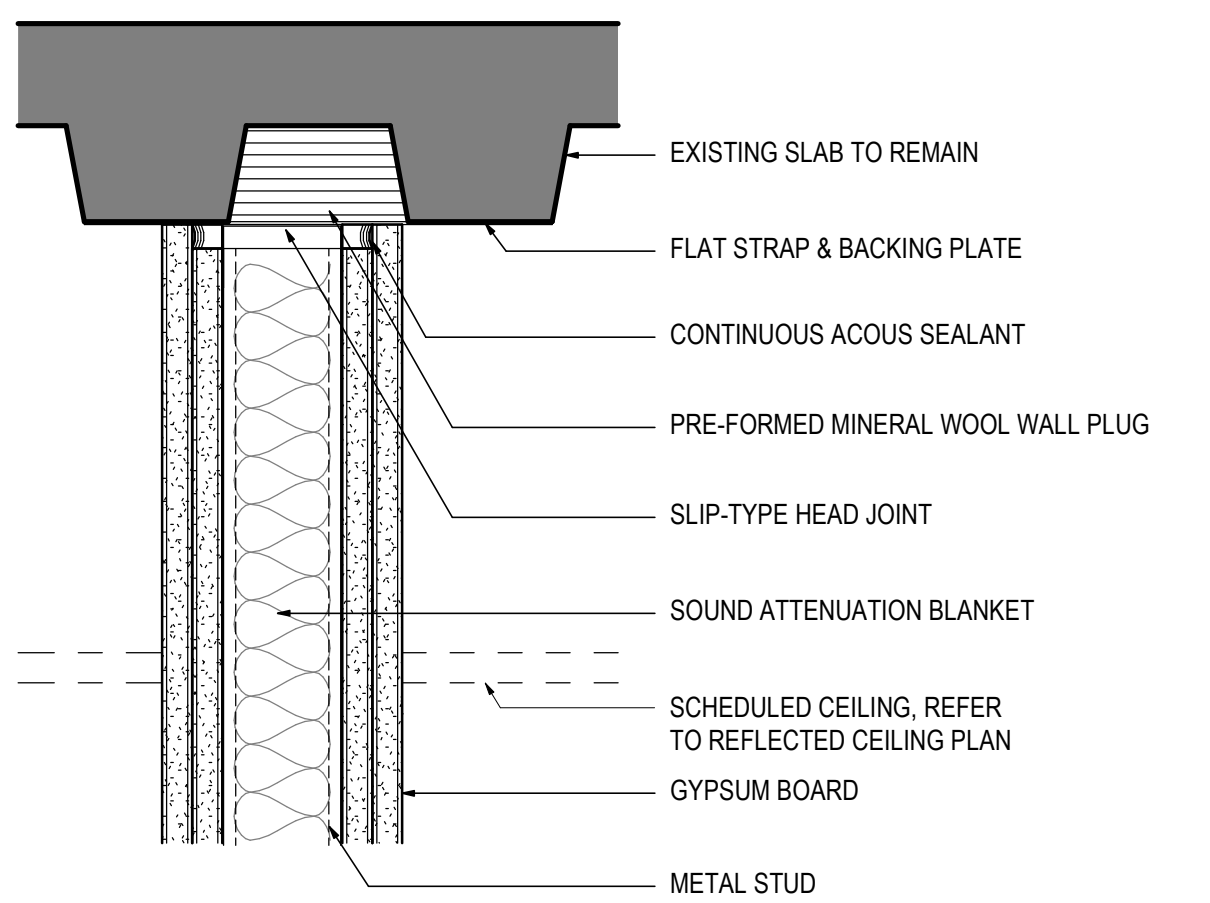
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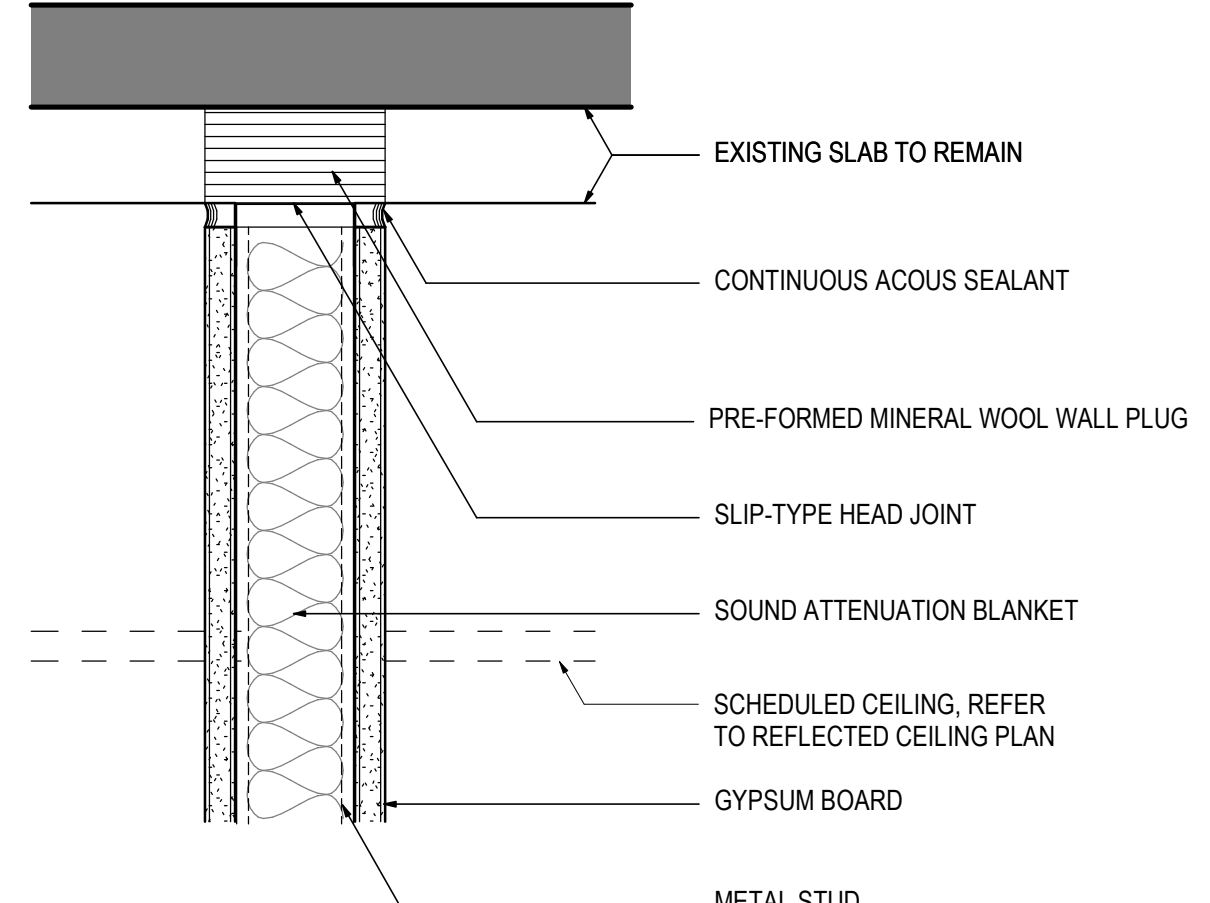
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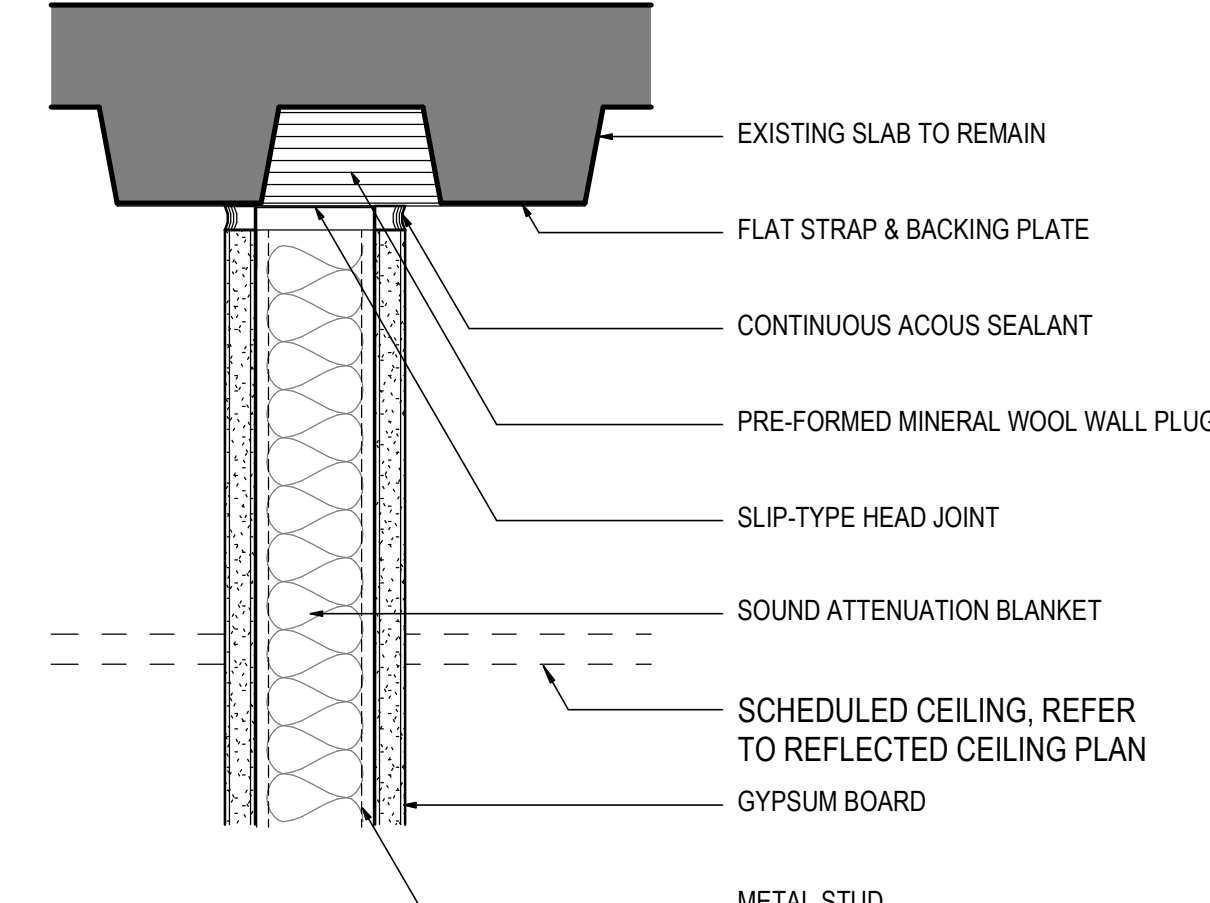
PERPENDICULAR TO RIBBING
(2-HOUR RATED-BASIS OF DESIGN UL SYSTEM NO. U419)



PARALLEL TO RIBBING



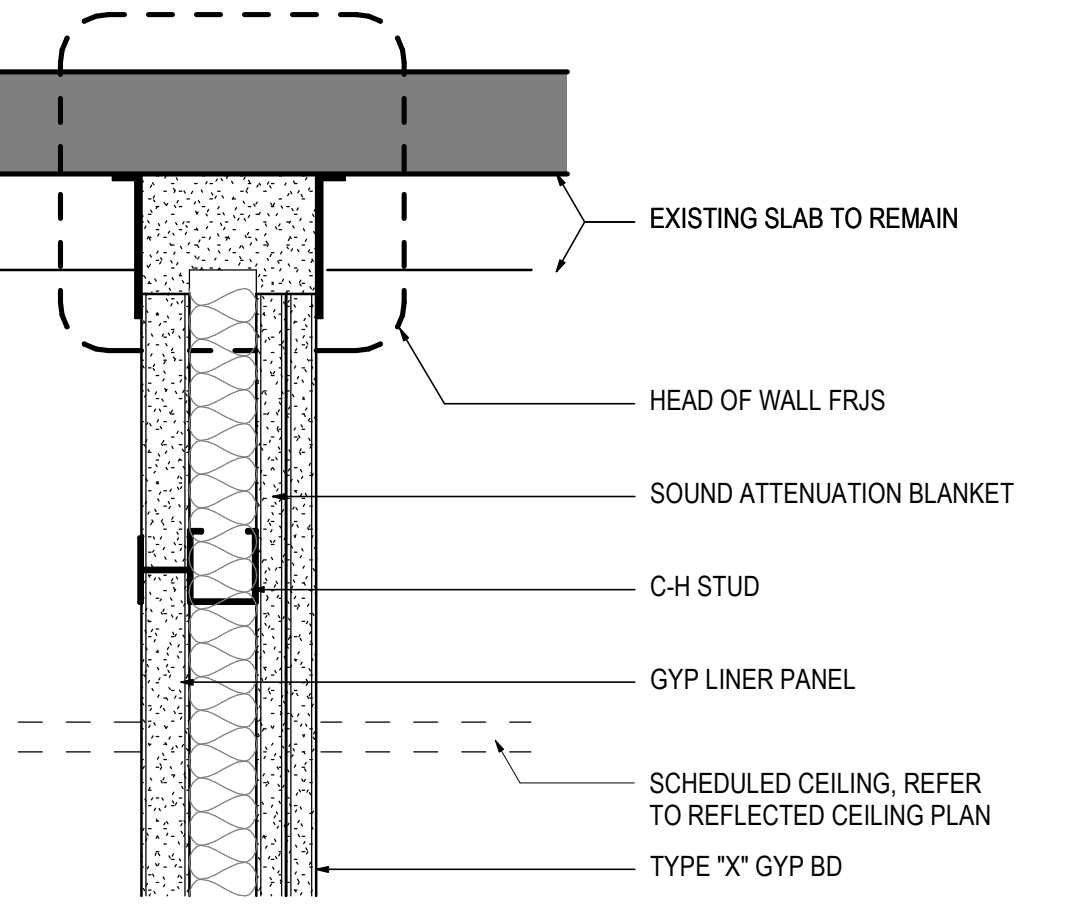
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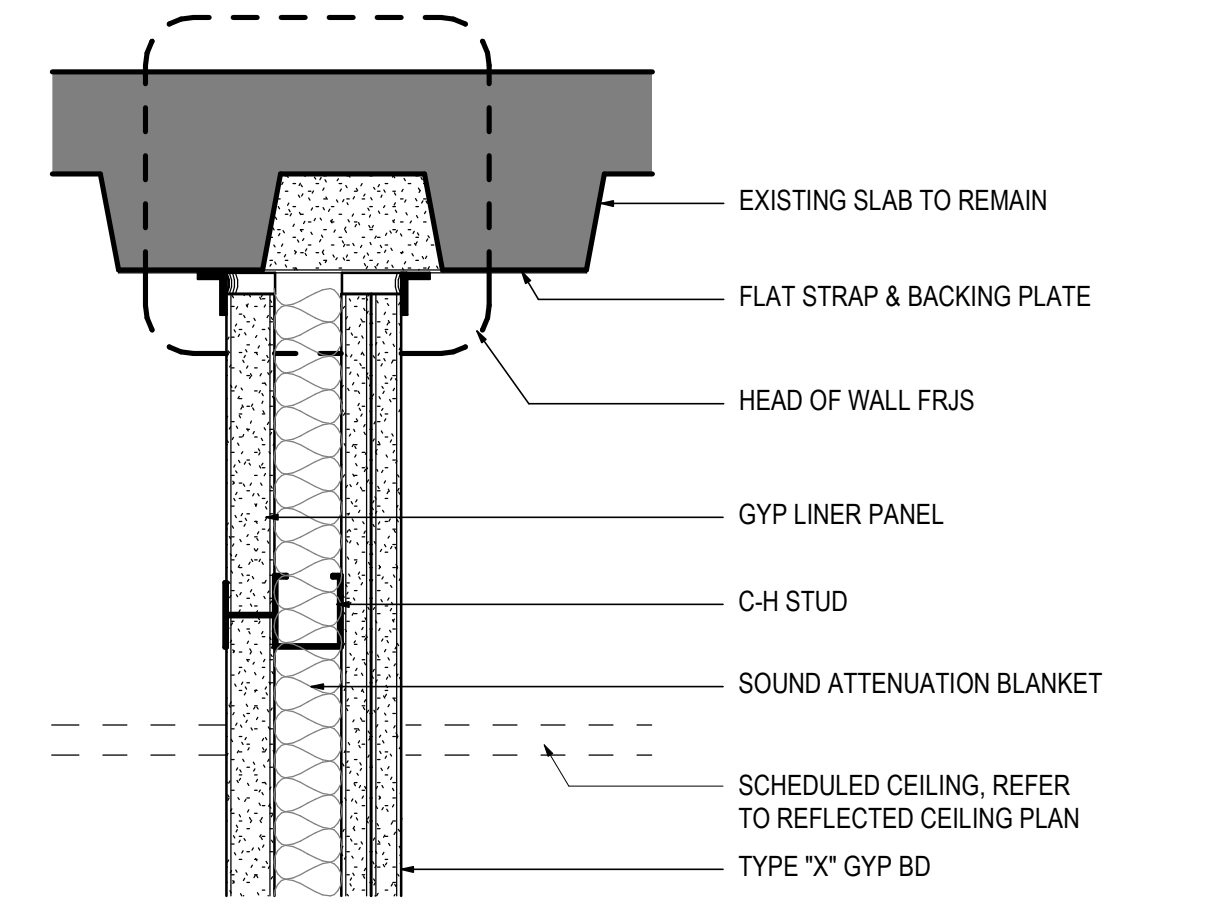
PARALLEL TO RIBBING

13 B-T01

SCALE: 3" = 1'-0"



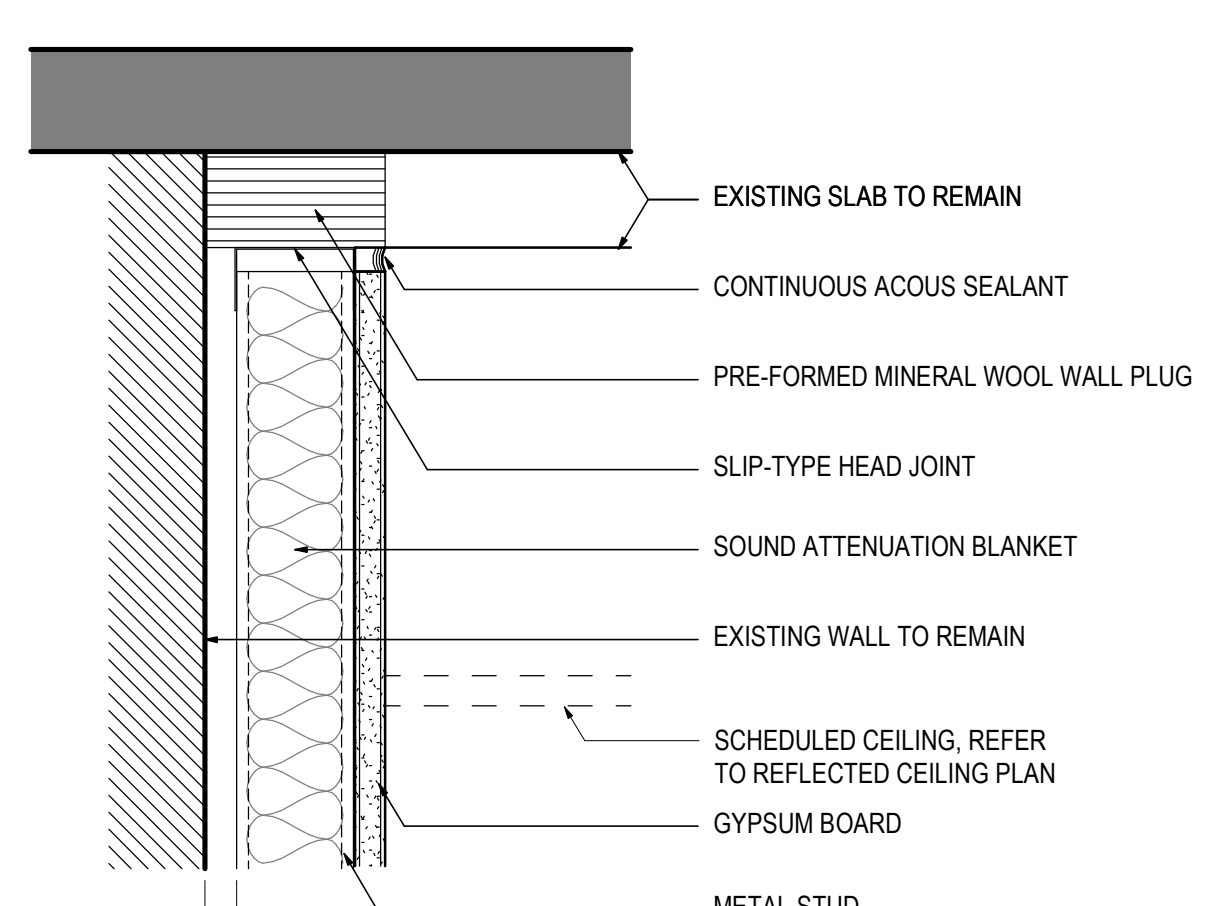
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(2-HOUR RATED-BASIS OF DESIGN UL SYSTEM NO. U415)



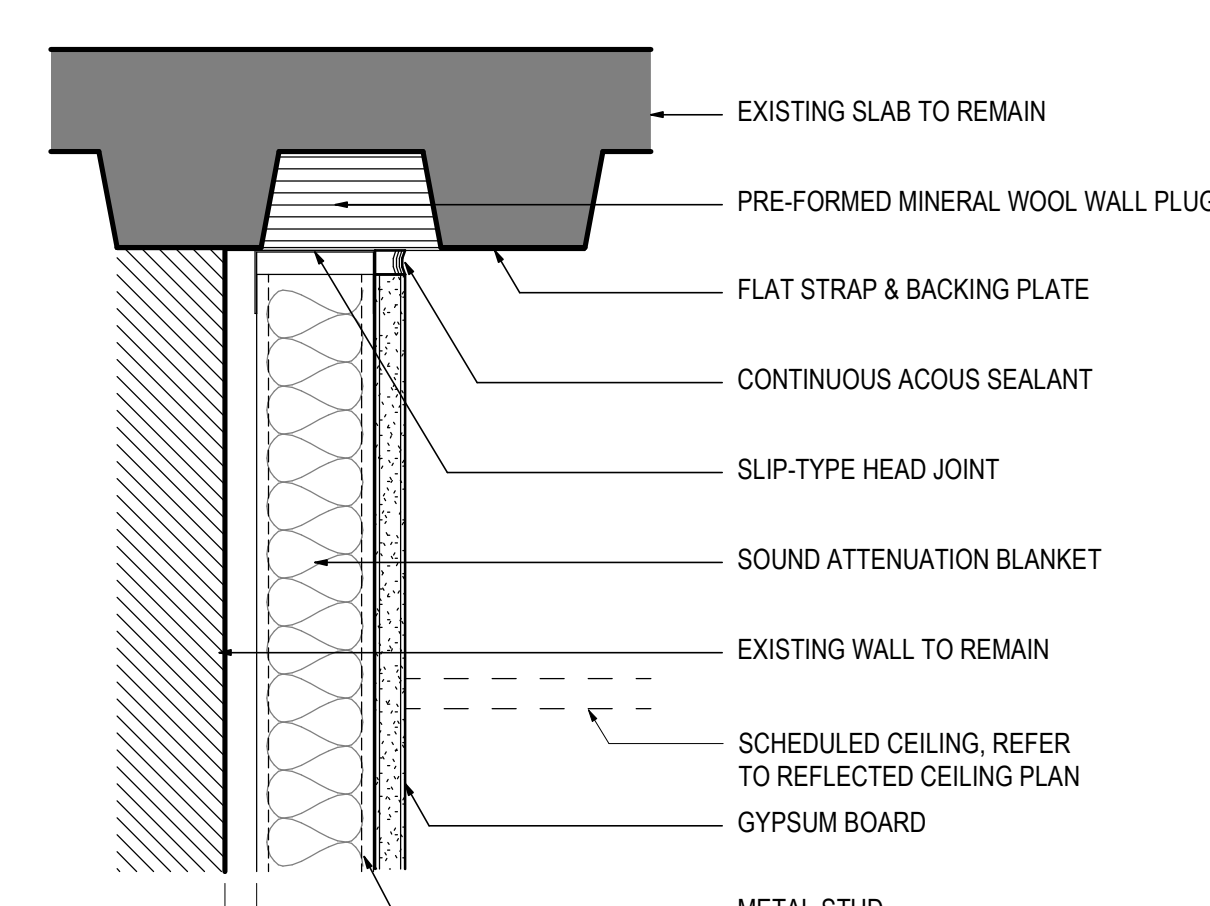
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05 A-T01

SCALE: 3" = 1'-0"



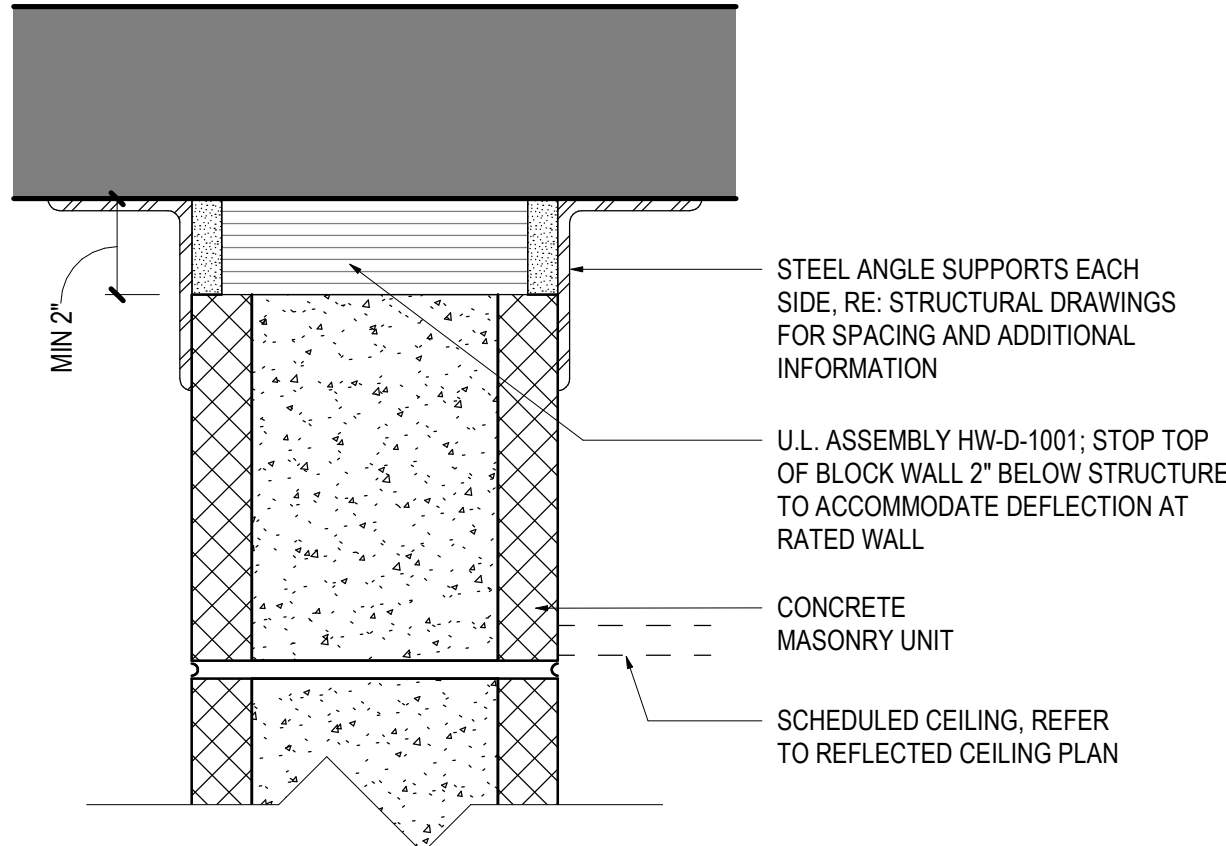
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PARALLEL TO RIBBING

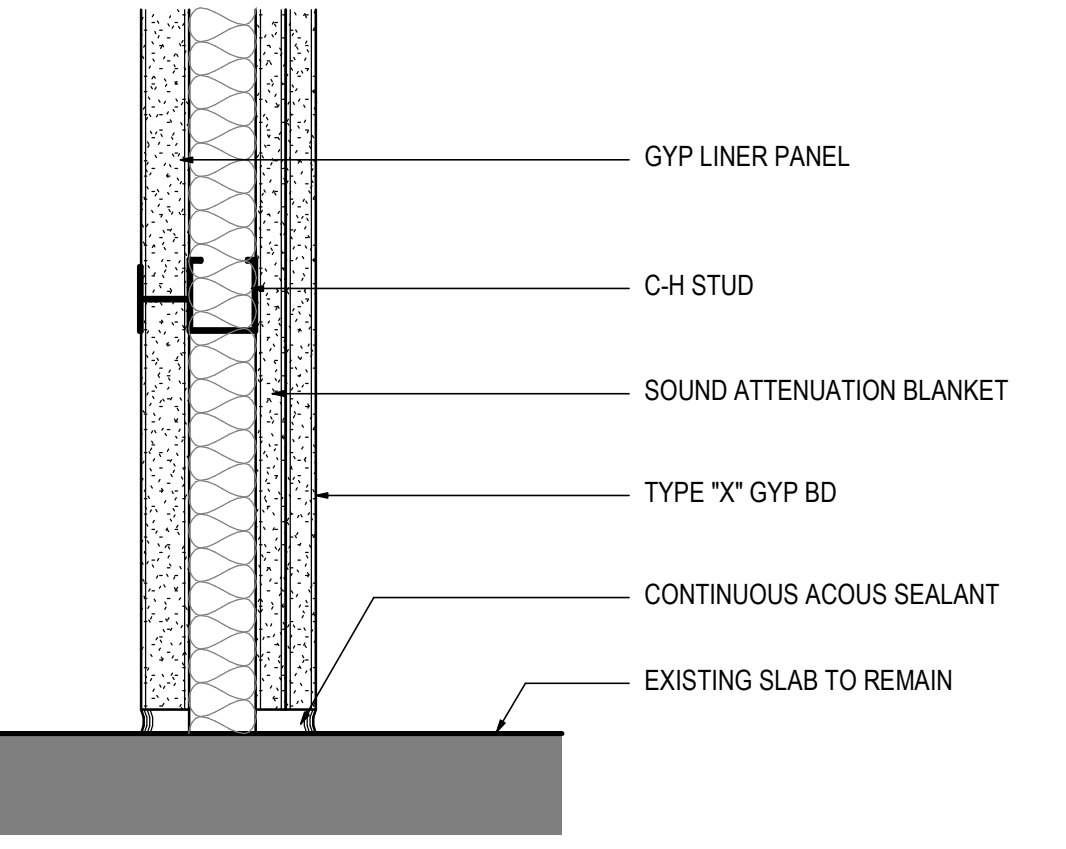
14 J-T02

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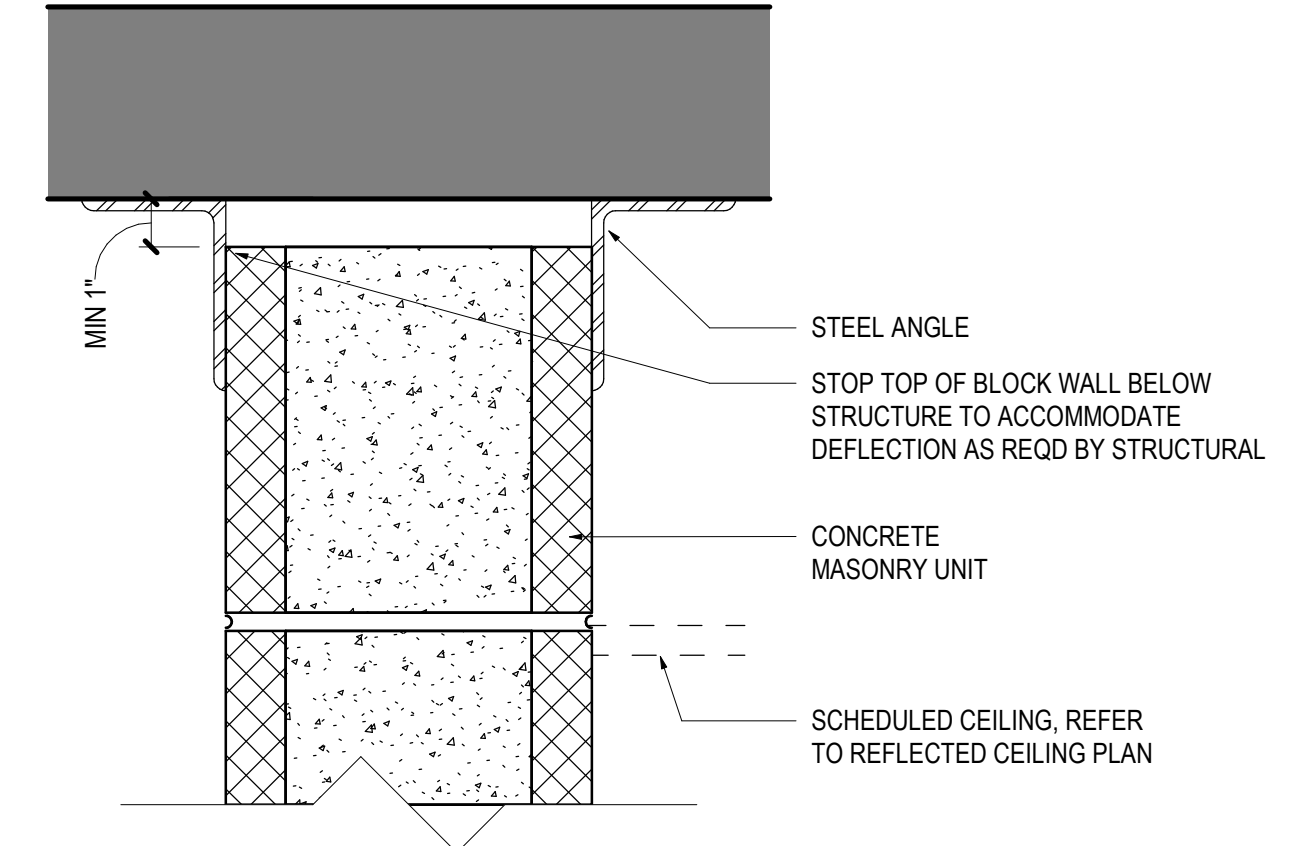


15 M-T02

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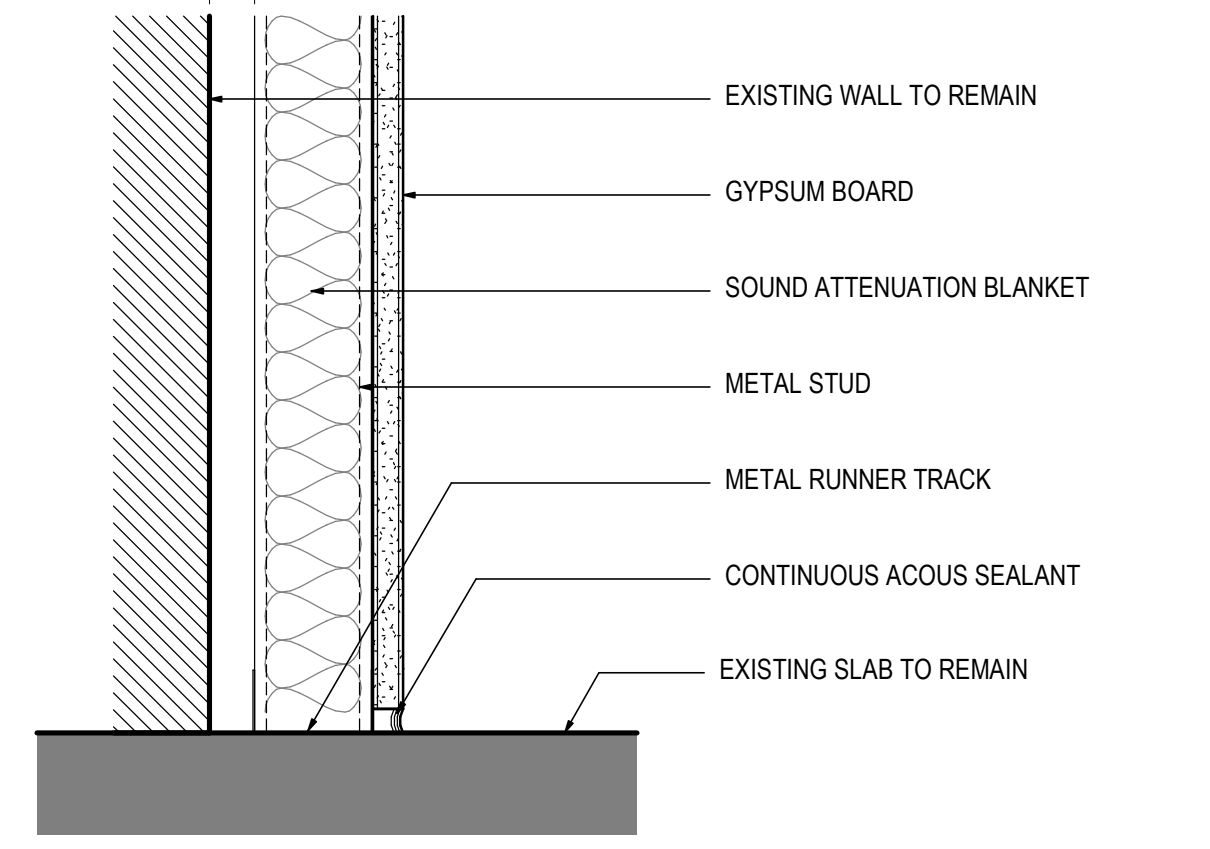


(2-HOUR RATED-BASIS OF DESIGN UL SYSTEM NO. U415)



11 M-T01

SCALE: 3" = 1'-0"

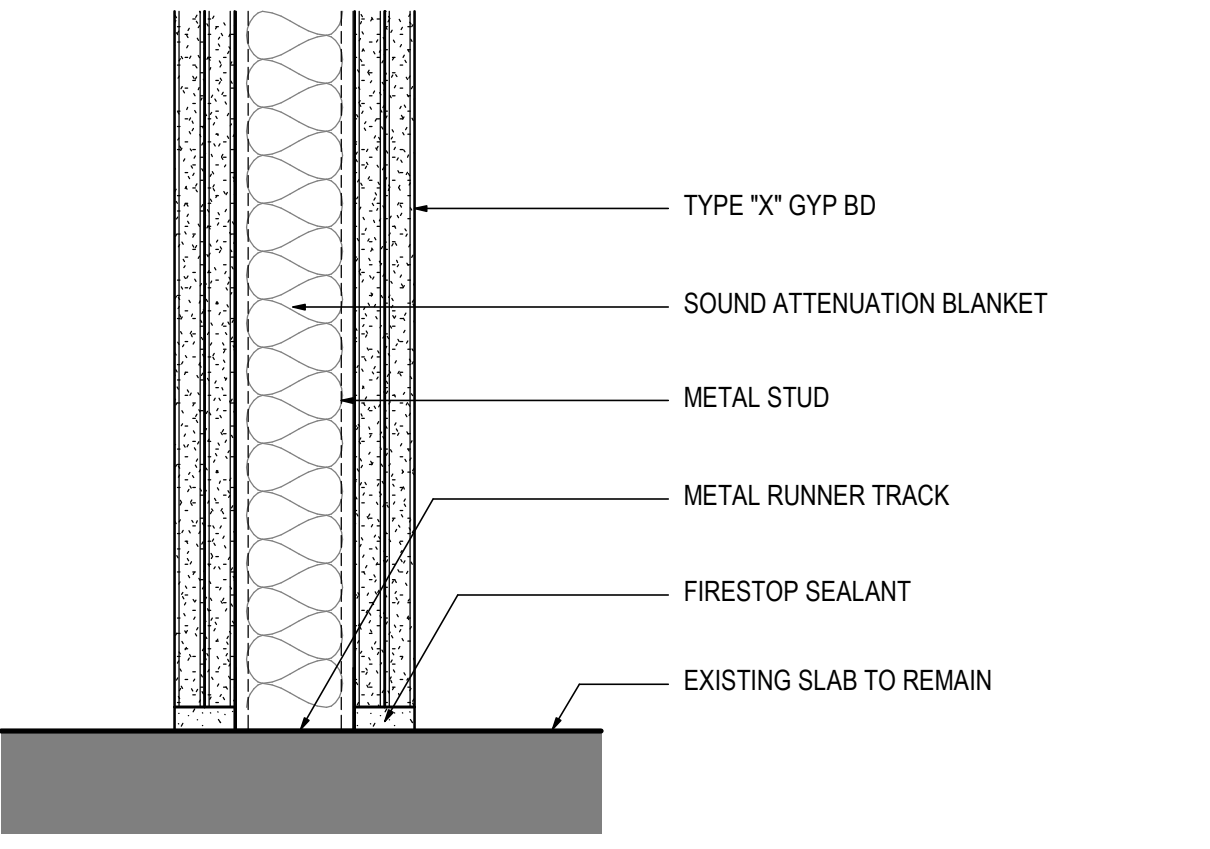


12 D-B01

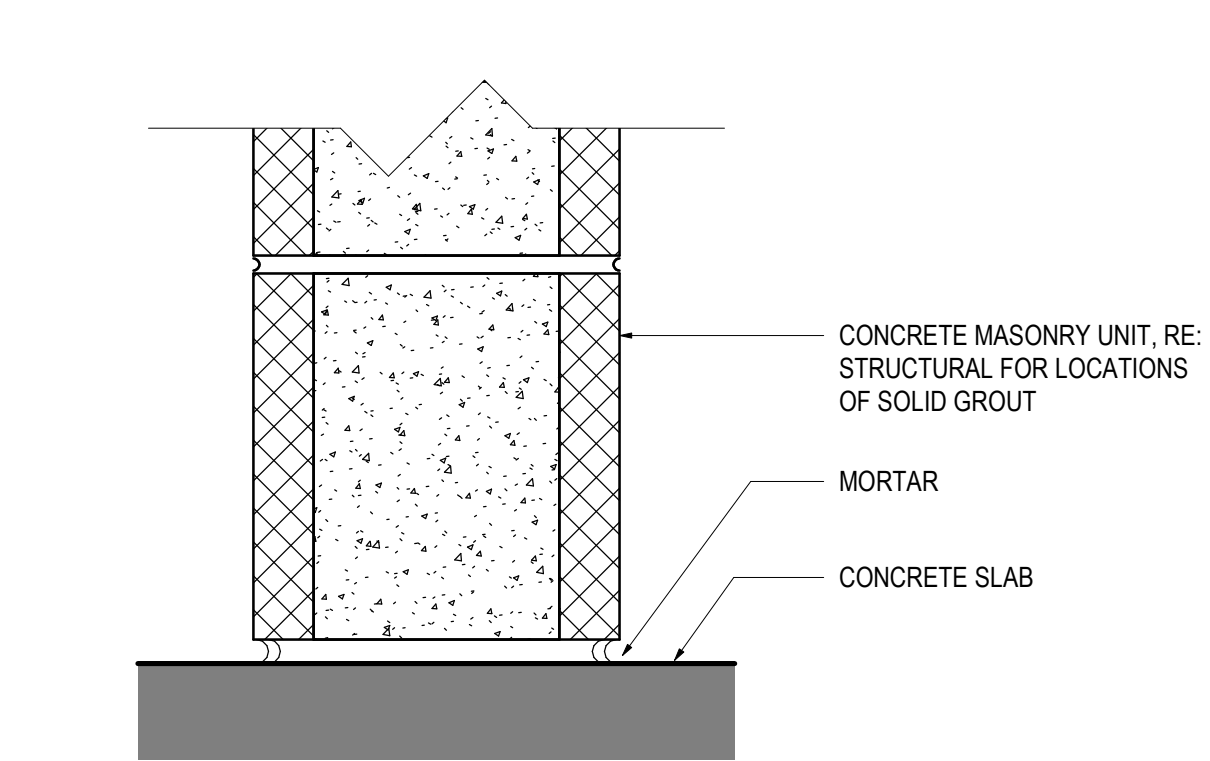
SCALE: 3" = 1'-0"

06 D-T01

SCALE: 3" = 1'-0"

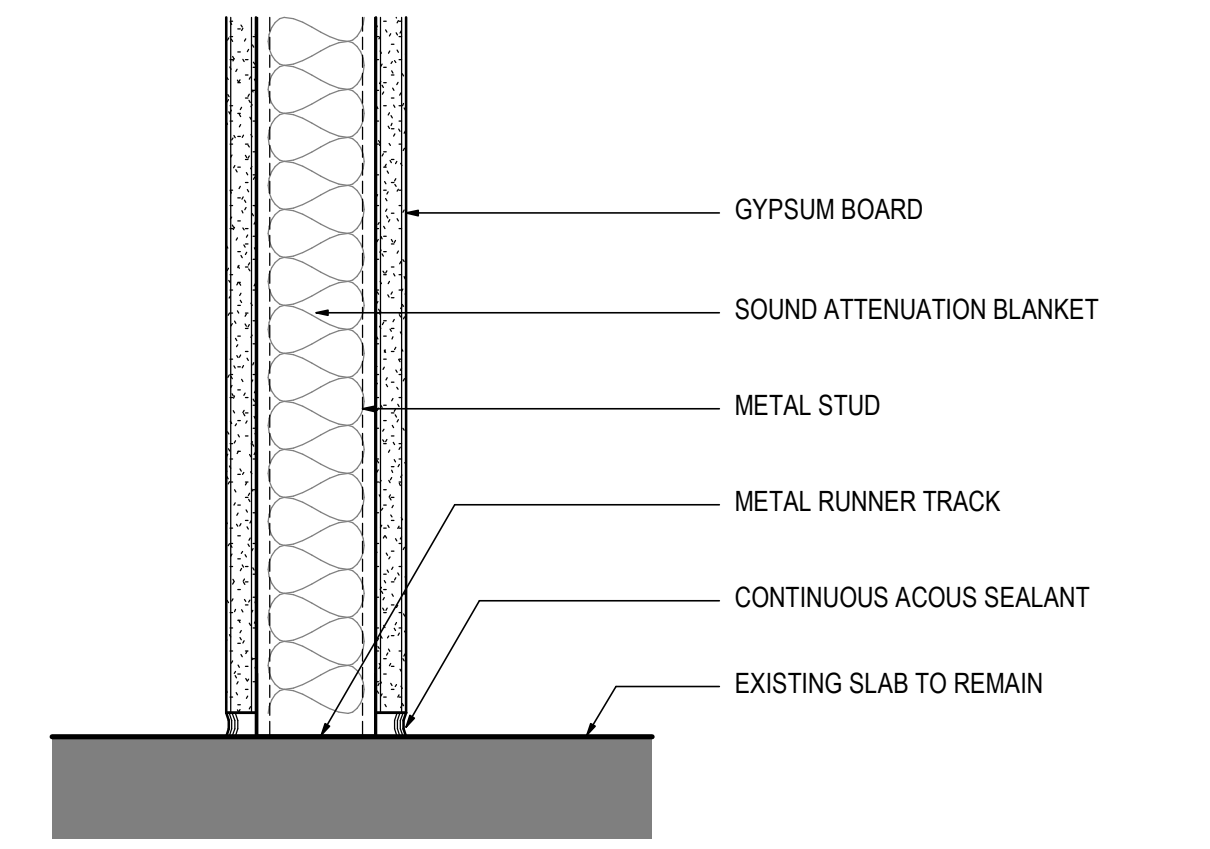


(2-HOUR RATED-BASIS OF DESIGN UL SYSTEM NO. U419)



03 M-B01

SCALE: 3" = 1'-0"



04 A-B01

SCALE: 3" = 1'-0"

PARTITION NOTES

TOP OF PARTITION DETAILS	
TYPE	DESCRIPTION
T01	TOP OF PARTITION AT UNDERSIDE OF METAL DECK SLAB
T02	TOP OF PARTITION AT UNDERSIDE OF METAL DECK SLAB (FIRE RATED)
T03	TOP OF PARTITION STUD AT UNDERSIDE OF METAL DECK SLAB AND SHEATHING 6" ABOVE SCHEDULED FINISHED CEILING
T04	TOP OF PARTITION AT UNDERSIDE OF CONCRETE SLAB (NON-RATED)
T05	TOP OF PARTITION AT UNDERSIDE OF CONCRETE SLAB (FIRE-RATED)
T06	TOP OF PARTITION STUD AT UNDERSIDE OF CONCRETE SLAB AND SHEATHING 6" ABOVE SCHEDULED FINISHED CEILING
T07	TOP OF PARTITION AT UNDERSIDE OF ACOUSTIC TILE/PANEL CEILING
T08	TOP OF PARTITION AT UNDERSIDE OF GYPSUM BOARD CEILING
T09	TOP OF PARTITION (LOW PARTITION) WITH WOOD CAP
T10	TOP OF PARTITION (LOW PARTITION) GYPSUM BOARD CAP
T11	TOP OF PARTITION AT UNDERSIDE OF METAL DECK SLAB (NON-RATED) NO CEILING
T12	TOP OF PARTITION AT UNDERSIDE OF METAL DECK SLAB (FIRE-RATED) NO CEILING
T13-T20	RESERVED FOR FUTURE EXPANSION
T21	CUSTOM
BOTTOM OF PARTITION DETAILS	
TYPE	DESCRIPTION
B01	BOTTOM OF PARTITION AT SLAB
B02	BOTTOM OF PARTITION AT SLAB (FIRE RATED)
B03	BOTTOM OF PARTITION AT CURB
B04	BOTTOM OF PARTITION AT CURB (FIRE RATED)
B05	BOTTOM OF PARTITION AT CURB OFFSET
B06	BOTTOM OF PARTITION AT CURB OFFSET (FIRE RATED)
B07	BOTTOM OF PARTITION AT RAISED FLR
B08-B15	RESERVED FOR FUTURE EXPANSION
B16	CUSTOM

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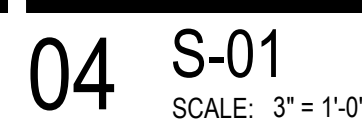
Description
PARTITION DETAILS

Scale
3" = 1'-0"

1A-G5.002



DOOR ASSEMBLY								FRAME ASSEMBLY					ASSEMBLY RATING			HARDWARE SET	REMARKS
NUMBER	LOCATION	TYPE	WIDTH	HEIGHT	THICKNESS	MATERIAL	FINISH	HEAD DETAIL	JAMB DETAIL	SILL DETAIL	MATERIAL	FINISH	FIRE RATING	TEMP RISE	SMOKE LABEL		
P.001A	VESTIBULE	C	6'-0"	8'-0"		AL/GL	PT2			08/1A-A5 100		PT2				8	
P.001B	VESTIBULE	C	6'-0"	8'-0"		AL/GL	PT2			08/1A-A5 100		PT2				8	
P.001C	VESTIBULE	C	6'-0"	8'-0"		AL/GL	PT2			08/1A-A5 100		PT2				8	
P.001D	VESTIBULE	C	6'-0"	8'-0"		AL/GL	PT2			08/1A-A5 100		PT2				8	
P.002A	MAIN ELEC	D	3'-0"	7'-0"	1 3/4"	HM/FR	PT	06/1A-G6-002	02/1A-G6-002	04/1A-G6-002	HR/FR	PT	90 MIN			38	
P.002B	MAIN ELEC	D	3'-0"	7'-0"	1 3/4"	HM/FR	PT	06/1A-G6-002	02/1A-G6-002	04/1A-G6-002	HR/FR	PT	90 MIN			38A	
P.003	WATER ENTRY	A	3'-0"	7'-0"	1 3/4"	HM	PT	07/1A-G6-002	03/1A-G6-002	04/1A-G6-002	HMNR	PT				41	
P.004A	LOADING/TRASH	A	3'-0"	7'-0"	1 3/4"	HM	PT	07/1A-G6-002	03/1A-G6-002	04/1A-G6-002	HMNR	PT				47	
P.004B	FOOD STORAGE	N	10'-0"	10'-0"	2"	AL	PT		08/1A-G6-002							33	
P.004C	LOADING/TRASH	N	8'-0"	8'-0"	2"	AL	PT		08/1A-G6-002							33	
P.004D	LOADING/TRASH	N	12'-0"	8'-6"	2"	AL	PT		08/1A-G6-002							33	
P.004E	LOADING/TRASH	D	3'-0"	7'-0"	1 3/4"	HM/FR	PT	06/1A-G6-002	02/1A-G6-002	04/1A-G6-002	HR/FR	PT	90 MIN			48	
P.005A	MECHANICAL/CACE PLANT	A	3'-0"	7'-0"	1 3/4"	HM	PT	07/1A-G6-002	03/1A-G6-002	04/1A-G6-002	HMNR	PT				38	
P.005B	MECHANICAL/CACE PLANT	A	3'-0"	7'-0"	1 3/4"	HM	PT	07/1A-G6-002	03/1A-G6-002	04/1A-G6-002	HMNR	PT				38	
P.005C	MECHANICAL/CACE PLANT	N	10'-0"	10'-0"	2"	AL	PT		08/1A-G6-002							33	
P.006	PLAZA DISHWASHING	A	3'-0"	7'-0"	1 3/4"	HM	PT	07/1A-G6-002	03/1A-G6-002	04/1A-G6-002	HMNR	PT				39	
P.007	ELEC	A	3'-0"	7'-0"	1 3/4"	HM	PT	07/1A-G6-002	03/1A-G6-002	04/1A-G6-002	HMNR	PT				40	
P.008	ERV2	A	3'-0"	7'-0"	1 3/4"	HM	PT	07/1A-G6-002	03/1A-G6-002	04/1A-G6-002	HMNR	PT				41	
P.010	STAIR	D	3'-0"	7'-0"	1 3/4"	HM/FR	PT	06/1A-G6-002	02/1A-G6-002	04/1A-G6-002	HR/FR	PT	90 MIN			42	
P.011A	CORRIDOR	B	6'-0"	7'-0"	1 3/4"	HM	PT	06/1A-G6-002	02/1A-G6-002	04/1A-G6-002	HMNR	PT				43	
P.011B	CORRIDOR	B	6'-0"	7'-0"	1 3/4"	HM	PT	06/1A-G6-002	02/1A-G6-002	04/1A-G6-002	HMNR	PT				44	
P.012	KEG ROOM	A	3'-0"	7'-0"	1 3/4"	HM	PT	06/1A-G6-002	02/1A-G6-002	04/1A-G6-002	HMNR	PT				39A	
P.013	PLAZA COLD FOOD STORAGE	A	3'-0"	7'-0"	1 3/4"	HM	PT	06/1A-G6-002	02/1A-G6-002	04/1A-G6-002	HMNR	PT				39A	
P.014	ERV1	A	3'-0"	7'-0"	1 3/4"	HM	PT	07/1A-G6-002	03/1A-G6-002	04/1A-G6-002	HMNR	PT				41	
P.015	CORRIDOR	B	6'-0"	8'-0"	1 3/4"	HM	PT	06/1A-G6-002	02/1A-G6-002	04/1A-G6-002	HMNR	PT				45	
P.016	FOOD STORAGE	A	3'-0"	7'-0"	1 3/4"	HM	PT	06/1A-G6-002	02/1A-G6-002	04/1A-G6-002	HMNR	PT				39	
P.017	IDF/IT	A	3'-0"	7'-0"	1 3/4"	HM	PT	06/1A-G6-002	02/1A-G6-002	04/1A-G6-002	HMNR	PT				46	
P.018	IDF/IT RM	A	3'-0"	7'-0"	1 3/4"	HM	PT	06/1A-G6-002	02/1A-G6-002	04/1A-G6-002	HMNR	PT				46	
P.019	IRRIGATION CLOSET	A	3'-0"	7'-0"	1 3/4"	HM	PT	06/1A-G6-002	02/1A-G6-002	04/1A-G6-002	HMNR	PT				40	
P.020	ELEC	A	3'-0"	7'-0"	1 3/4"	HM	PT	06/1A-G6-002	02/1A-G6-002	04/1A-G6-002	HMNR	PT				40	



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1A-G6.002

EXTERIOR ASSEMBLY TYPES

ASSEMBLY TYPE SUMMARY
EW1 - METAL STUD W/ EXTERIOR RIGID INSULATION EW2 - CONCRETE WALL EW3 - CLT WALLS EW4 - STL FRAME WALL [MECH YARD]
FL1 - CONCRETE SLAB ON METAL DECK FL2 - CONCRETE SLAB ON GRADE FL3 - CLT SLAB FL4 - CONCRETE SLAB ON EXISTING
RF1 - METAL DECK RF2 - CONCRETE SLAB ON METAL DECK RF3 - CLT SLAB RF4 - HEAVY TIMBER WITH HSS TUBES RF5 - EXISTING CAST IN PLACE CONCRETE SLAB RF6 - EXISTING POST TENSION CONCRETE SLAB
FN1 - CONCRETE WALL ON FOOTER TBD, RE STRUCT

ADDITIONAL NOTES

ABBREVIATIONS
R-VALUE: THERMAL RESISTANCE U-VALUE: THERMAL TRANSMITTANCE C-FACTOR: THERMAL CONDUCTANCE Re: R-VALUE OF THE SYSTEM Re: EFFECTIVE R-VALUE OF THE SYSTEM
Re CALCULATED PER ASHRAE 90.1 TABLE A3.1.4
ASSEMBLY C-FACTOR FOR BELOW GRADE WALL PER ASHRAE 90.1 TABLE A4.2.1
FIRE-RESISTANT ASSEMBLIES
FOR TESTED ASSEMBLIES REFERENCED, SEE SHEETS G4.001-G4.005

ASSEMBLY COMPONENTS

AIR / WATER BARRIERS & RETARDERS	EXPANSION JOINTS
<div><div>AWB1</div><div>DESCRIPTION: FLUID APPLIED AIR AND WATER BARRIER DESCRIPTION (CONT): VAPOR PERMEABLE MANUFACTURER: DOW MODEL NAME: DEFENDAIR 200</div></div>	<div><div>EJ1</div><div>DESCRIPTION: WABO WATERTITE DESCRIPTION (CONT): SLAB TO SLAB CONNECTION MANUFACTURER: WATSON BOWMAN ACME MODEL NAME: WT-200/450 THICKNESS: REFER TO ASSEMBLY NOTE: (MAX. MOVEMENT 2.25")</div></div>
<div><div>AWB2</div><div>DESCRIPTION: SELF ADHERED ROOFING UNDERLAYMENT MANUFACTURER: GCP TECHNOLOGIES MODEL NAME: GRACE ICE & WATER SHIELD</div></div>	<div><div>EJ2</div><div>DESCRIPTION: WABO WATERTITE DESCRIPTION (CONT): SLAB TO WALL CONNECTION MANUFACTURER: WATSON BOWMAN ACME MODEL NAME: WT-200/450C THICKNESS: REFER TO ASSEMBLY NOTE: (MAX. MOVEMENT 2.25")</div></div>
WATERPROOFING & DAMPPROOFING	
<div><div>WP1</div><div>DESCRIPTION: COLD FLUID APPLIED WATERPROOFING WITH PROTECTION BOARD AND DRAIN MAT LOCATION: FOUNDATION</div></div>	<div><div>EJ3</div><div>DESCRIPTION: WABO WATERTITE DESCRIPTION (CONT): SLAB TO WALL CONNECTION MANUFACTURER: WATSON BOWMAN ACME MODEL NAME: WT-200/450C THICKNESS: REFER TO ASSEMBLY NOTE: (MAX. MOVEMENT 3.5")</div></div>
<div><div>WP2</div><div>DESCRIPTION: DAMPPROOFING</div></div>	
<div><div>WP3</div><div>DESCRIPTION: 215 MIL FABRIC REINFORCED, HOT FLUID APPLIED WATERPROOFING WITH INTEGRAL PROTECTION COURSE. TOP WITH COMPOSITE DRAINAGE MAT; MODEL NAME: HYDROTECH 6125 OR EQUIVALENT</div></div>	
<div><div>WP4</div><div>DESCRIPTION: CONCRETE PENETRATING 40% SILANE SEALER COLOR: CLEAR</div></div>	
<div><div>WP5</div><div>DESCRIPTION: WATERPROOFING MEMBRANE: HYDROTECH MM 6125-FR OR EQUIVALENT. DRAINAGE BOARD NOT REQUIRED.</div></div>	
<div><div>WP6</div><div>DESCRIPTION: BLIND SIDE WATERPROOFING MEMBRANE FOR SHOTCRETE FOUNDATION WALLS MANUFACTURER: GCP APPLIED TECHNOLOGIES MODEL NAME: PREPRUFE SCS ON WALLS</div></div>	
<div><div>WP7</div><div>DESCRIPTION: BLIND SIDE WATERPROOFING MEMBRANE FOR BELOW SLAB AND FOOTINGS MANUFACTURER: GCP APPLIED TECHNOLOGIES MODEL NAME: PREPRUFE 300R PLUS UNDER SLABS</div></div>	
VAPOR BARRIERS	
<div><div>VB1</div><div>DESCRIPTION: UNDER SLAB VAPOR BARRIER MANUFACTURER: STEGO WRAP OR EQUIVALENT THICKNESS: RE: SPECIFICATION</div></div>	
<div><div>VB2</div><div>DESCRIPTION: 6MM POLYETHYLENE SHEET VAPOR RETARDER</div></div>	
<div><div>VB3</div><div>DESCRIPTION: SELF-ADHERED, FIRE-RETARDANT VAPOR RETARDER</div></div>	
INSULATION	
<div><div>INS1</div><div>DESCRIPTION: MINERAL BOARD (ROCK WOOL) INSULATION DESCRIPTION (CONT): R4.3INCH MIN. MANUFACTURER: THERMAFIBER MODEL NAME: RAINBARRIER THICKNESS: REFER TO ASSEMBLY</div></div>	
<div><div>INS2</div><div>DESCRIPTION: CLOSED CELL SPRAY-FOAM INSULATION DESCRIPTION (CONT): WITH THERMAL BARRIER PER IRC 2603.4, NO-BURN FIRE RETARDANT COATING OR EQUIVALENT MANUFACTURER: BASIS OF DESIGN DOW STYROFOAM BRAND SPF CM2030; BASIS OF DESIGN: "INTERNATIONAL FIREPROOF TECHNOLOGY, INC DC 315" THICKNESS: REFER TO ASSEMBLY, R-6INCH MIN</div></div>	
<div><div>INS3</div><div>DESCRIPTION: BATT INSULATION - FACED DESCRIPTION (CONT): ER=7.10, PER TABLE A8.2-2 MANUFACTURER: REFER TO SPECIFICATIONS THICKNESS: REFER TO ASSEMBLY, TO MEET R-3.17INCH</div></div>	
<div><div>INS4</div><div>DESCRIPTION: BATT INSULATION - UNFACED DESCRIPTION (CONT): ER=7.10, PER TABLE A9.2-2 MANUFACTURER: REFER TO SPECIFICATIONS THICKNESS: REFER TO ASSEMBLY, TO MEET R-3.17INCH</div></div>	
<div><div>INS5</div><div>DESCRIPTION: UNFACED EXTRUDED POLYSTYRENE RIGID INSULATION W/ INTEGRAL DRAINAGE BOARD MANUFACTURER: DOW STYROFOAM HIGHLOAD 60 OR EQUAL THICKNESS: REFER TO ASSEMBLY, R-5INCH MIN. NOTE: HIGH COMPRESSIVE STRENGTH (60PSI)</div></div>	
<div><div>INS6</div><div>DESCRIPTION: POLYISOCYANURATE INSULATION THICKNESS: REFER TO ASSEMBLY, R-7.2INCH MIN</div></div>	
<div><div>INS7</div><div>DESCRIPTION: UNFACED EXTRUDED POLYSTYRENE RIGID INSULATION MANUFACTURER: DOW STYROFOAM - ROOFMATE AND PLAZAMATE THICKNESS: REFER TO ASSEMBLY, R-5INCH MIN NOTE: HIGH COMPRESSIVE STRENGTH (60 PSI)</div></div>	
<div><div>INS8</div><div>DESCRIPTION: UNFACED EXTRUDED POLYSTYRENE RIGID INSULATION DESCRIPTION (CONT): WITH SUFFICIENT BEARING CAPACITY TO SUPPORT VEHICLES MANUFACTURER: DOW STYROFOAM HIGHLOAD 60 OR EQUAL THICKNESS: REFER TO ASSEMBLY, R-5INCH MIN NOTE: HIGH COMPRESSIVE STRENGTH (60PSI)</div></div>	
<div><div>INS9</div><div>DESCRIPTION: UNFACED EXPANDED POLYSTYRENE RIGID INSULATION DESCRIPTION (CONT): WITH SUFFICIENT BEARING CAPACITY TO SUPPORT PAVERS MANUFACTURER: CARLISLE INSULFOAM GEOFOAM THICKNESS: REFER TO DRAWINGS</div></div>	

EXTERIOR FINISH LEGEND

<u>GUARDRAIL SYSTEM</u>	
GR1	DESCRIPTION: CUSTOM GUARDRAIL SYSTEM DESCRIPTION (CONT): 42" PRE-FINISHED STEEL RAILING FINISH: GALVANIZED AND PAINTED CUSTOM COLOR TO MATCH PT2
GR2	DESCRIPTION: CUSTOM GUARDRAIL SYSTEM DESCRIPTION (CONT): PRE-FINISHED STEEL RAILING, 2" X 1/2" STEEL PLAT BAR, EDGES RADIUS TO BE 0.01 INCH FINISH: GALVANIZED AND PAINTED CUSTOM COLOR TO MATCH PT2 LOCATION: MAIN STAIR
GR3	DESCRIPTION: GUARDRAIL SYSTEM TO MATCH EXISTING WALL AND TOP RAIL CONDITION DESCRIPTION (CONT): GC TO SALVAGE EXISTING STONE CLADDING TO BE REMOVED AND REUSE AT BRIDGE IF IN ACCEPTABLE CONDITION. VERIFY WITH ARCHITECT. GC TO PROVIDE NEW STONE CLADDING TO MATCH EXISTING IF NOT ACCEPTABLE. HEIGHT: 42" MIN FINISH: MATCH MATERIALS AND FINISHES OF EXISTING BRIDGE GUARDRAIL AND WALL LOCATION: GOLD WALK BRIDGE
GR4	DESCRIPTION: GUARDRAIL SYSTEM TO MATCH EXISTING GUARDRAIL ALONG GRID LINE 5 DESCRIPTION (CONT): SAWCUT EXISTING CONCRETE TO NEW FLOOR FINISH ELEVATION. GC TO SALVAGE EXISTING RAILING TO BE REMOVED AND REUSE AT THIS LOCATION IF IN ACCEPTABLE CONDITION. VERIFY WITH ARCHITECT. GC TO PROVIDE NEW RAILING TO MATCH EXISTING IF NOT ACCEPTABLE. HEIGHT: 42" MIN FINISH: MATCH MATERIALS AND FINISHES OF EXISTING GUARDRAIL ALONG GRID LINE 5
GR5	DESCRIPTION: 1 1/2" PIPE GUARDRAIL SYSTEM DESCRIPTION (CONT): PROVIDE 1 1/2" HANDRAIL WHERE APPLICABLE FINISH: GALVANIZED AND PAINTED CUSTOM COLOR TO MATCH PT2 LOCATION: STORAGE ROOM

EXTERIOR SYSTEM & FINISH LEGEND

ASSEMBLY TAG INFORMATION & DESCRIPTION	WALL FINISH MATERIAL TAG
<div><div><div>XX1-XX1</div><div>EW6-MT3</div></div><div>ASSEMBLY STRUCTURE TYPE (SEE DETAIL DRAWINGS) "FL" - FLOOR "EW" - EXTERIOR WALL "RF" - ROOF "FN" - FOUNDATION BELOW GRADE VARIANTS OF ASSEMBLY STRUCTURE TYPE FINISH SYSTEM TYPE (SEE LEGEND BELOW FOR DESCRIPTIONS) VARIANT OF FINISH SYSTEM TYPE (SEE LEGEND BELOW FOR DESCRIPTIONS) EXAMPLE TAG EXTERIOR WALL ASSEMBLY 6TH TYPE OF EXTERIOR WALL ASSEMBLY IN PROJECT EXTERIOR FINISH MATERIAL OF WALL = METAL 3RD TYPE OF METAL FINISH IN PROJECT</div></div>	<div>XX1</div> <div>DESCRIPTION: MATERIAL TYPE DESCRIPTION MANUFACTURER: MATERIAL TYPE MFR MODEL NAME: MATERIAL NAME</div>
GENERAL NOTES	
1. NOT ALL ASSEMBLIES AND MATERIALS LISTED ARE USED IN PROJECT. REFER TO DRAWINGS FOR APPLICABLE MATERIALS.	
EXTERIOR FINISH LEGEND	
STONE	
ST1	DESCRIPTION: FULL DEPTH STONE MASONRY VENEER DESCRIPTION (CONT): 3" - 4" NOMINAL NATURAL STONE CLADDING SUPPLIER: GALLEGOS STONE MODEL NAME: MOUNTAIN ASH GRANITE NOTE: DRY STACK LEDGE
ST2	DESCRIPTION: FULL DEPTH STONE MASONRY COPING CAP DESCRIPTION (CONT): 3" NOMINAL NATURAL STONE CAP, SEE DRAWINGS FOR LENGTHS AND WIDTHS SUPPLIER: GALLEGOS STONE MODEL NAME: TENNESSEE BLUE/ GRAY CAP LIMESTONE
WOOD	
WD1	DESCRIPTION: NATURAL WOOD SIDING DESCRIPTION (CONT): 4" VERTICAL BOARD SPECIES: WESTERN RED CEDAR STAIN: SIKKENS CEDAR 1 & 23 STAIN OR APPROVED ALTERNATE NOTE: STK SELECT KNOTTY GRADE D @ BETTER CLEAR
WD2	DESCRIPTION: STRUCTURAL CLT [CROSS LAMINATED TIMBER] SLAB MANUFACTURER: LAMWOOD FINISH: CUSTOM STAINED TO MATCH ARCHITECTS SAMPLE NOTE: SLAB THICKNESS PER STRUCTURAL CONDITION
WD3	DESCRIPTION: STRUCTURAL GLULAM BEAM/ COLUMN DESCRIPTION (CONT): DOUGLAS FIR, ARCHITECTURAL GRADE, PRESSURE TREATED MANUFACTURER: LAMWOOD STAIN: CUSTOM STAINED TO MATCH ARCHITECTS SAMPLE NOTE: SIZE PER STRUCT
WD4	DESCRIPTION: NATURAL WOOD SIDING DESCRIPTION (CONT): 4" TONGUE AND GROOVE SPECIES: DOUGLAS FIR, ARCHITECTURAL GRADE, PRESSURE TREATED STAIN: CUSTOM STAINED TO MATCH ARCHITECTS SAMPLE
WD5	DESCRIPTION: T1-11 WOOD SIDING DESCRIPTION (CONT): 3/4" FIRE RATED FINISH: PAINT: MATCH ADJACENT
ARCHITECTURAL LOUVER	
LV1	DESCRIPTION: PREFINISHED ARCHTECTURAL LOUVER DESCRIPTION (CONT): BASIS OF DESIGN, CS SPECIALTIES THINLINE RS-4700 COLOR: CUSTOM COLOR TO MATCH PT2
EXTERIOR PAINT	
PT1	DESCRIPTION: EXTERIOR PAINT FINISH COLOR: CUSTOM CHARCOAL GRAY TO MATCH ARCHITECTS SAMPLE
PT2	DESCRIPTION: EXTERIOR PAINT FINISH MODEL NUMBER: SW6255 COLOR: TRICORN BLACK
PT3	DESCRIPTION: EXTERIOR PAINT FINISH COLOR: CUSTOM GRAY TO MATCH ARCHITECTS SAMPLE
CEMENT PLASTER	
CP1	DESCRIPTION: THREE COAT STUCCO SYSTEM WITH ACRYLIC FINISH MANUFACTURER: PAREX OR APPROVED EQUAL COLOR: TO BE SELECTED FROM FULL RANGE OF MANUFACTURERS STANDARD COLORS
CONCRETE	
CN1	DESCRIPTION: FINISH CONCRETE
CN2	DESCRIPTION: FINISH CONCRETE WITH WP3
CN3	DESCRIPTION: CONCRETE UNIT PAVER WITH SNOW MELT BED , RE: LANDSCAPE
CN4	DESCRIPTION: CONCRETE UNIT PAVER WITH SNOW MELT BED
CN5	DESCRIPTION: CIP CONCRETE STEPS, INTEGRAL COLOR, LANDSCAPE FINISH
CN6	DESCRIPTION: REFRIGERATED ICE RINK SLAB, RE: DIV 13
STOREFRONT SYSTEMS	
SF1	DESCRIPTION: CURTAIN WALL SYSTEM MANUFACTURER: KAWNEER 1620UT OR ARCHITECT APPROVED ALTERNATE FINISH: CUSTOM COLOR TO MATCH PT2 CUSTOM MULLION CAP @ ALL LOCATIONS
SF2	DESCRIPTION: WINDOW WALL SYSTEM MANUFACTURER: KAWNEER 601T OR ARCHITECT APPROVED ALTERNATE FINISH: CUSTOM COLOR TO MATCH PT2
SKYLIGHT SYSTEMS	
SK1	DESCRIPTION: SKYLIGHT SYSTEM DESCRIPTION (CONT): KAWNEER 2000 SKYLIGHT, RAFTER DEPTH 8 1/4 #822001", CONDENSATION GUTTER 822010, PERIMETER SNAP ON COVER 822031, AND INTERIOR SSG MULLIONS MANUFACTURER: KAWNEER OR ARCHITECT APPROVED ALTERNATE FINISH: CUSTOM COLOR TO MATCH PT1 MULLION CAP @ ALL LOCATIONS NOTE: GLAZING: GL2
GLAZING	
GL1	DESCRIPTION: INSULATED GLAZING UNIT DESCRIPTION (CONT): CLEAR GLASS, AIR FILLED MANUFACTURER: VITRO MODEL NAME: SOLARBAN 70 THICKNESS: 1" IGU + 1/4" / 1/2" AIR SPACE / 1/4" U VALUE: 0.29 SHGC: 0.45 SEW ORIENTATIONS
GL2	DESCRIPTION: LAMINATED GLASS MANUFACTURER: VIRACON MODEL NAME: 13116" ULTRACLEAR LAMINATED GLASS THICKNESS: 13116" OA (3/8" GLASS, 0.050" CLEAR PVB, 3/8" GLASS)
METAL	
MT1	DESCRIPTION: A606 WEATHERING STEEL DESCRIPTION (CONT): CORTEN ACCENT PANEL MANUFACTURER: CMG GROUP
MT2	DESCRIPTION: BONDERIZED STANDING SEAM MANUFACTURER: BERRIDGE METAL MODEL NAME: CEE-LOCK STANDING SEAM PANEL SYSTEM FINISH: RAW BONDERIZED FINISH SIZE: 16 1/2" COVERAGE PANEL W/ 1 1/2" HT SEAM
MT3	DESCRIPTION: PREFINISHED AND PREFORMED METAL MANUFACTURER: TBD FINISH: CUSTOM COLOR TO MATCH PT1 SIZE: 18 GA MIN.
MT4	DESCRIPTION: STEEL PLATE DESCRIPTION (CONT): 1/2" COLD ROLLED STL PLATE W/ BLACKENED FINISH, FACTORY APPLIED MANUFACTURER: TBD SIZE: PER ELEVATION/PLAN LOCATION: PER ELEVATION/PLAN



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Date	Description
- 2021.05.19	BP3: PROMENADE - ISSUE FOR RECORD AND PERMIT

RCRBD
Record Set
TC
07/10/2021

Seal / Signature



Project Name: 05.19.2021

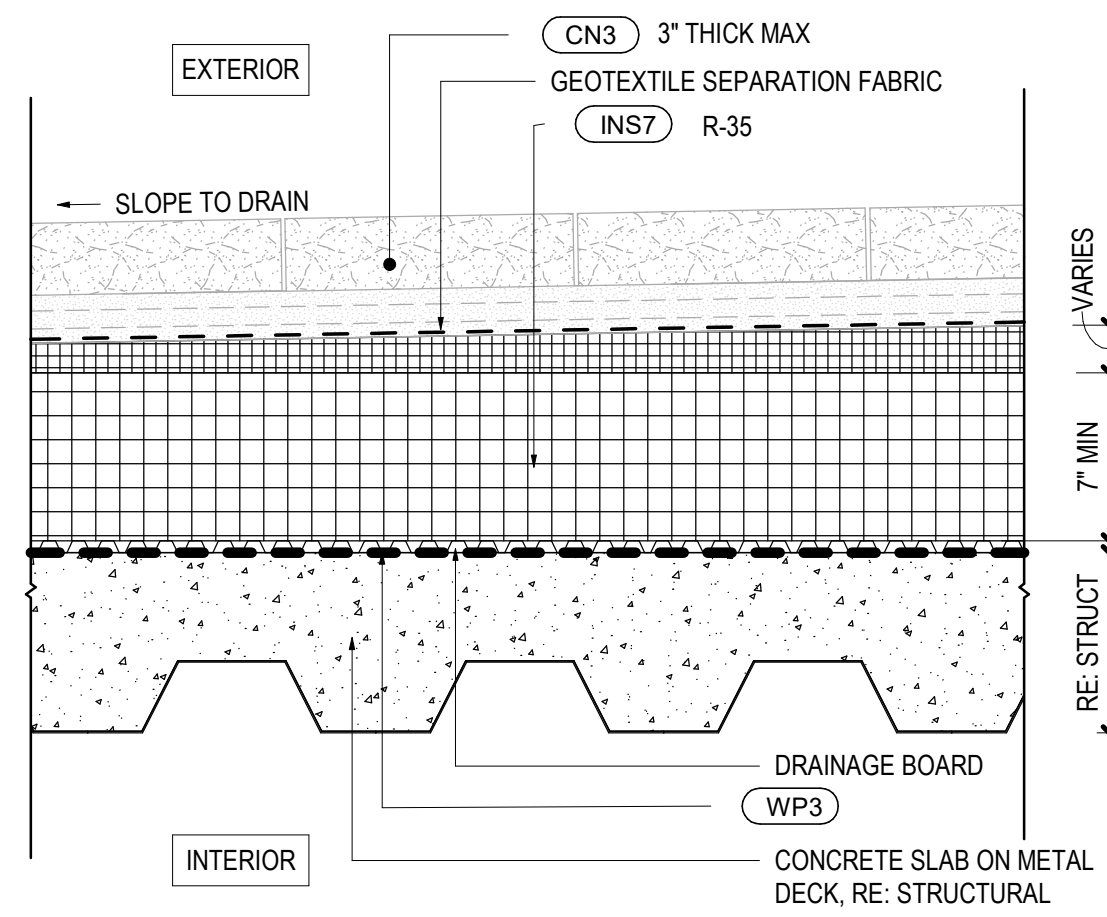
SSRC | BASE AREA IMPROVEMENTS

Project Number: 003.7835.000

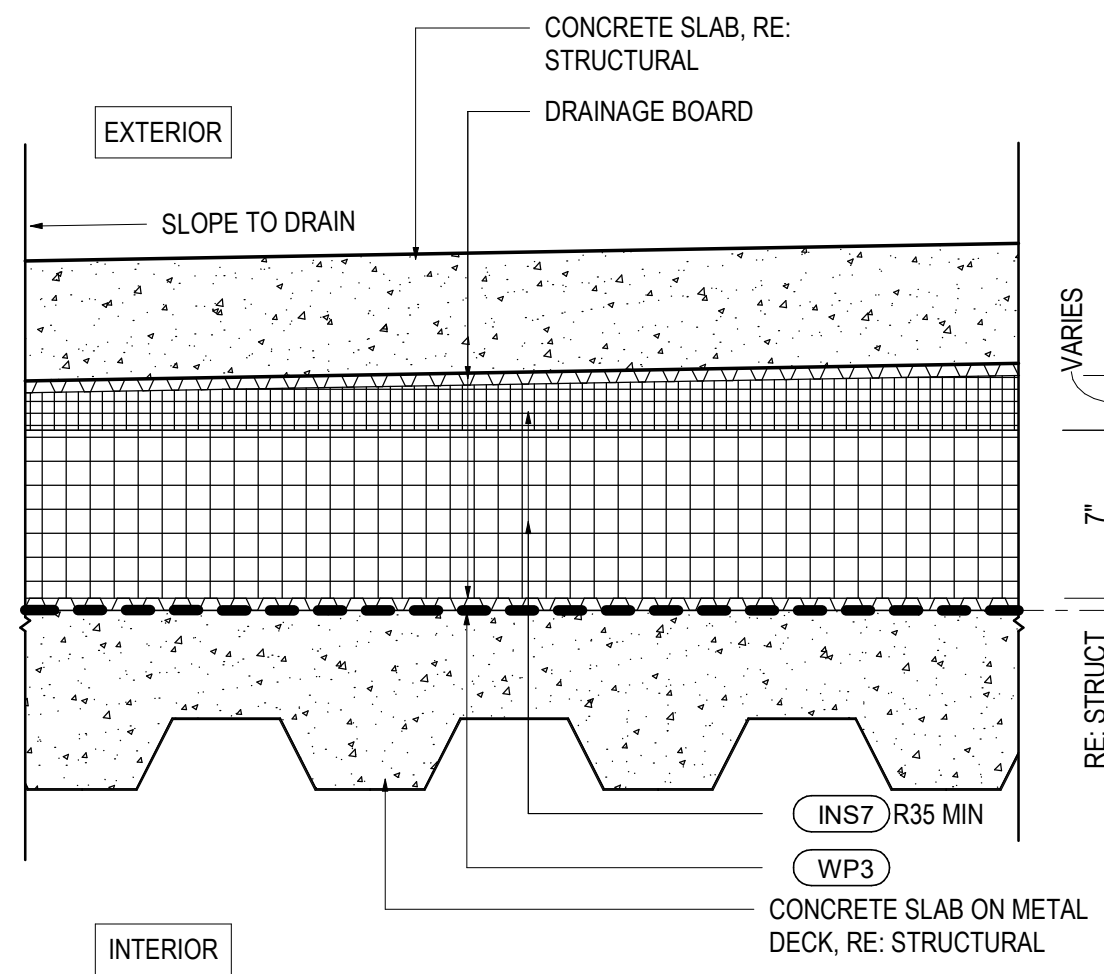
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Scale: As indicated

1A-G8.001



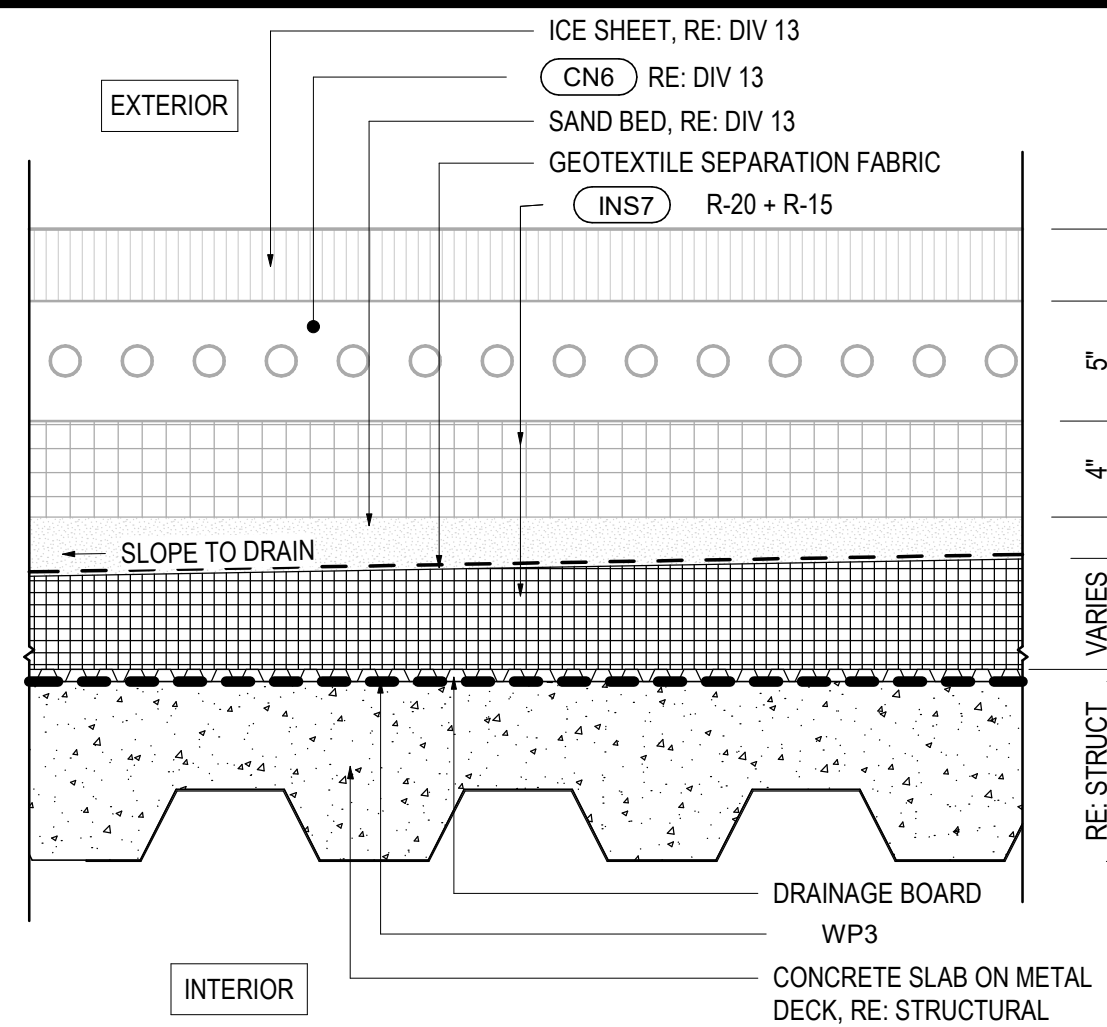
AIR FILM INTERIOR, R0.68
AIR FILM EXTERIOR, R0.17
R VALUE = 35.85
ASSEMBLY U-FACTOR= 0.026



AIR FILM INTERIOR, R0.68
AIR FILM EXTERIOR, R0.17
R VALUE = 35.85
ASSEMBLY U-FACTOR= 0.026

17 NOT USED

13 RF2-CN3 - ROOF AT PLAZA & GOLD WALK
SCALE: 1 1/2" = 1'-0"



AIR FILM INTERIOR, R0.68
AIR FILM EXTERIOR, R0.17
R VALUE = 35.85
ASSEMBLY U-FACTOR= 0.026

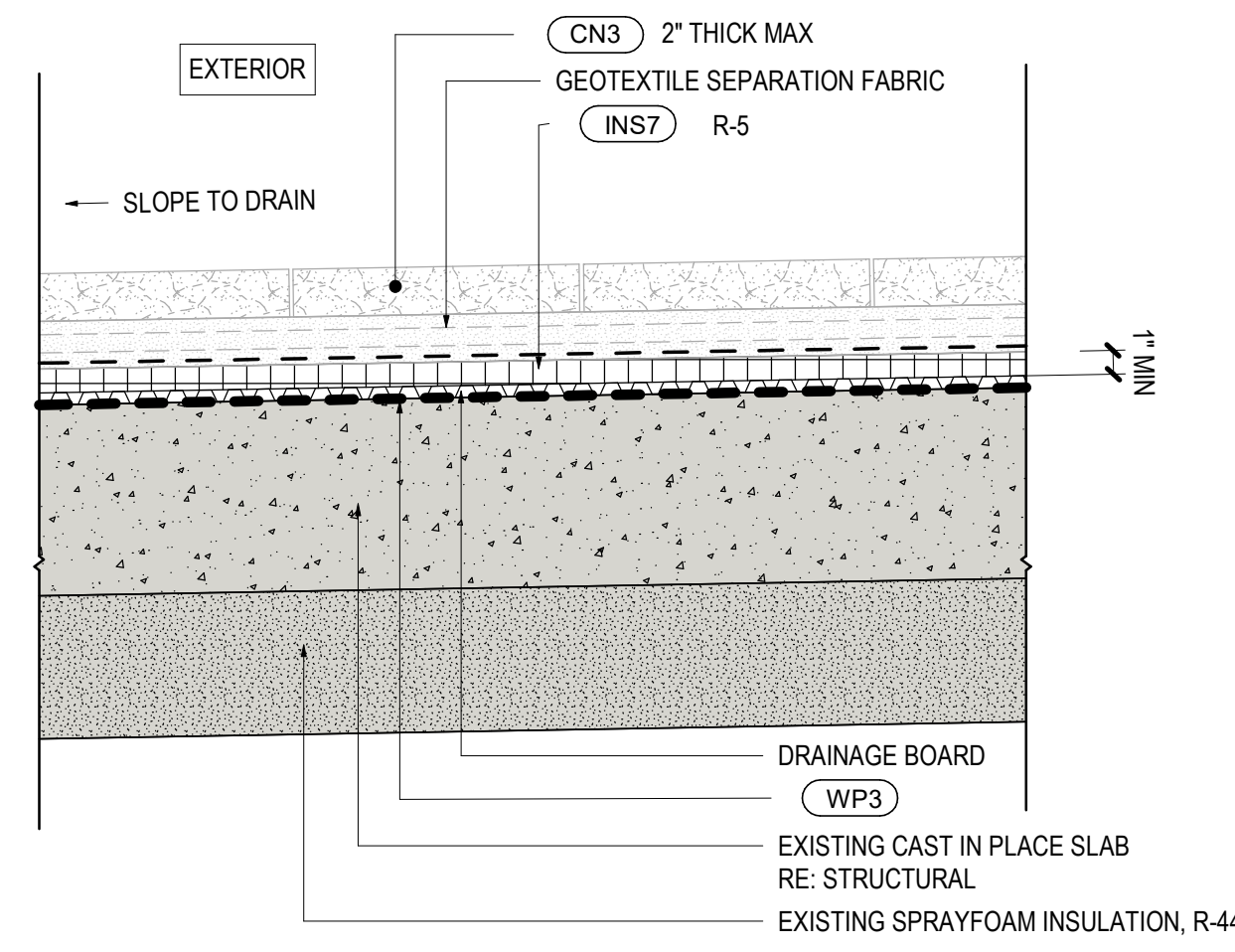
18 NOT USED

14 RF2-CN6 - ROOF AT ICE RINK
SCALE: 1 1/2" = 1'-0"

09 RF2-CN1 - ROOF AT MECH YARD
SCALE: 1 1/2" = 1'-0"

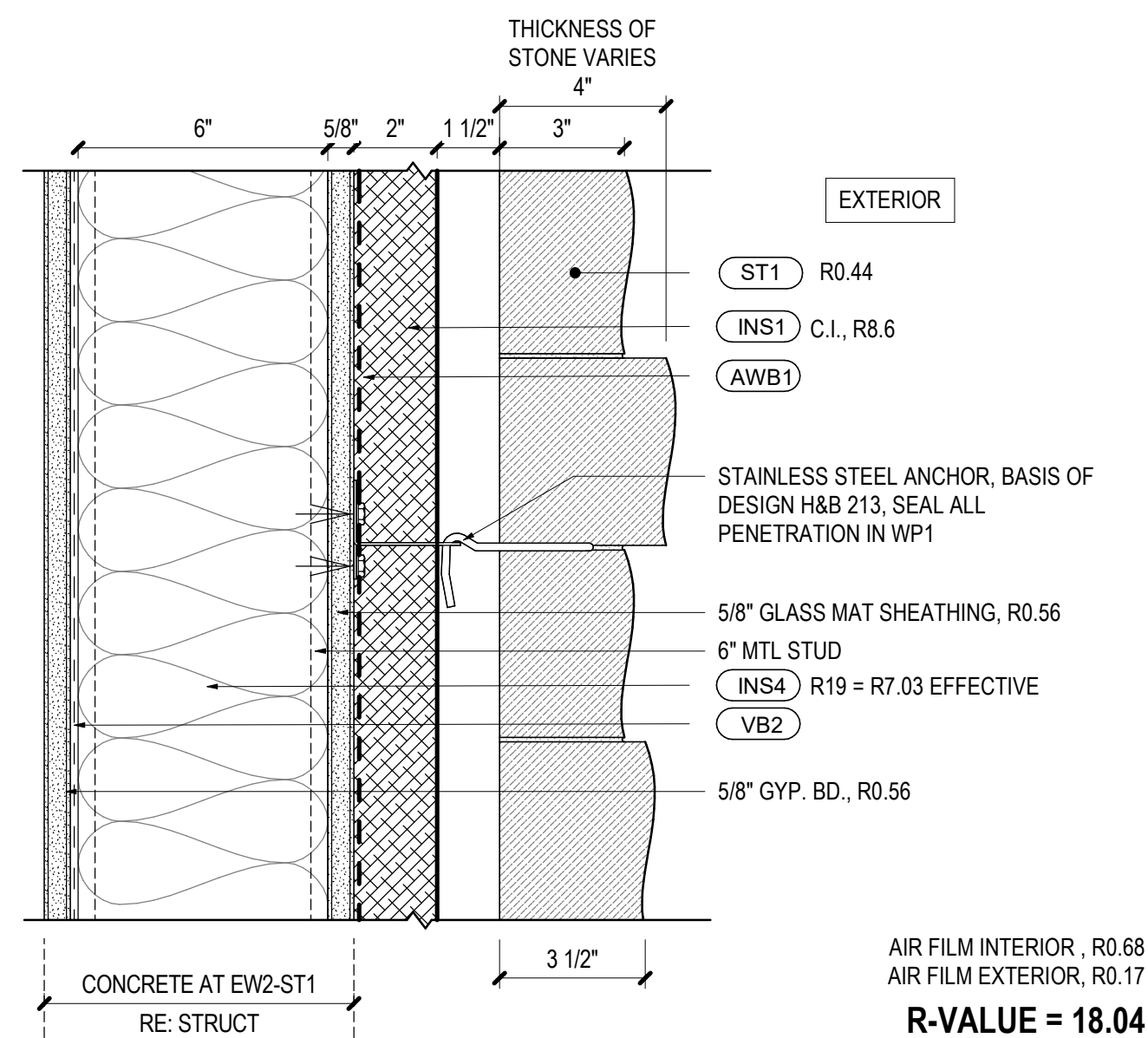
05 NOT USED

01 NOT USED



AIR FILM INTERIOR, R0.68
AIR FILM EXTERIOR, R0.17
R VALUE = 49.85
ASSEMBLY U-FACTOR= 0.020

02 RF5-CN3 - ROOF AT STAGE
SCALE: 1 1/2" = 1'-0"



AIR FILM INTERIOR, R0.68
AIR FILM EXTERIOR, R0.17
R-VALUE = 18.04
ASSEMBLY U-FACTOR = 0.055

19 NOT USED

15 NOT USED

11 NOT USED

07 NOT USED

03 EW1-ST1 STONE ON FRAMING
SCALE: 3" = 1'-0"

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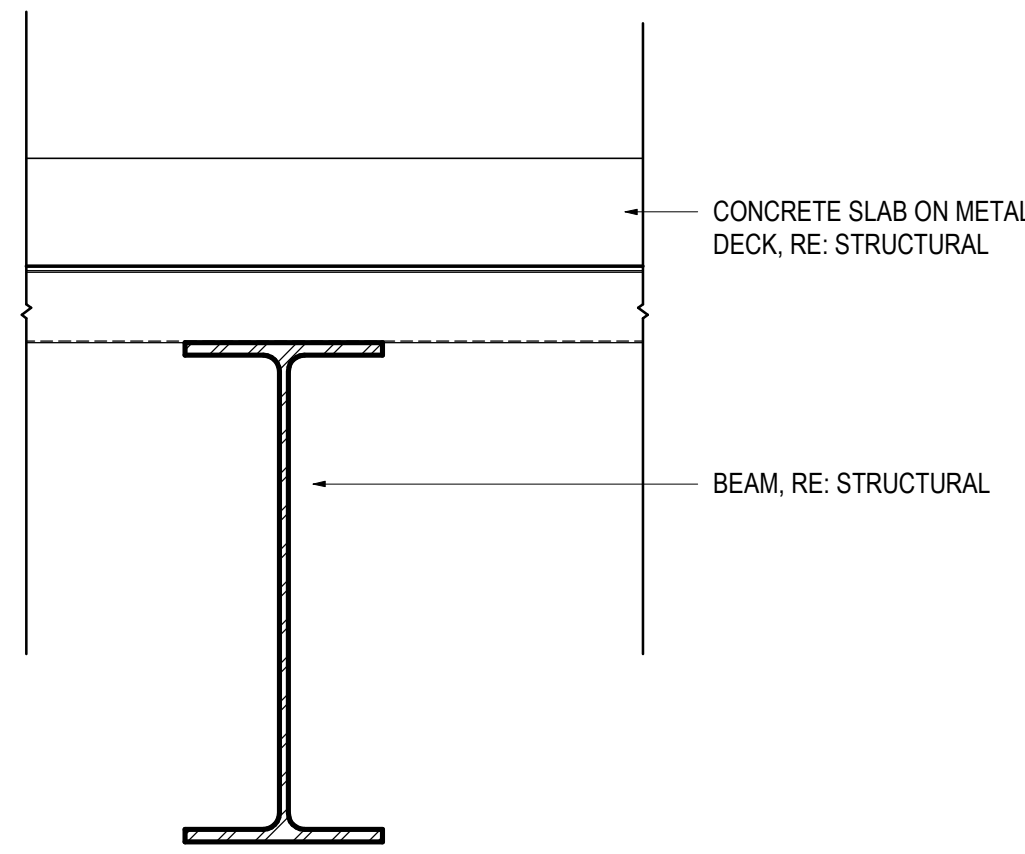
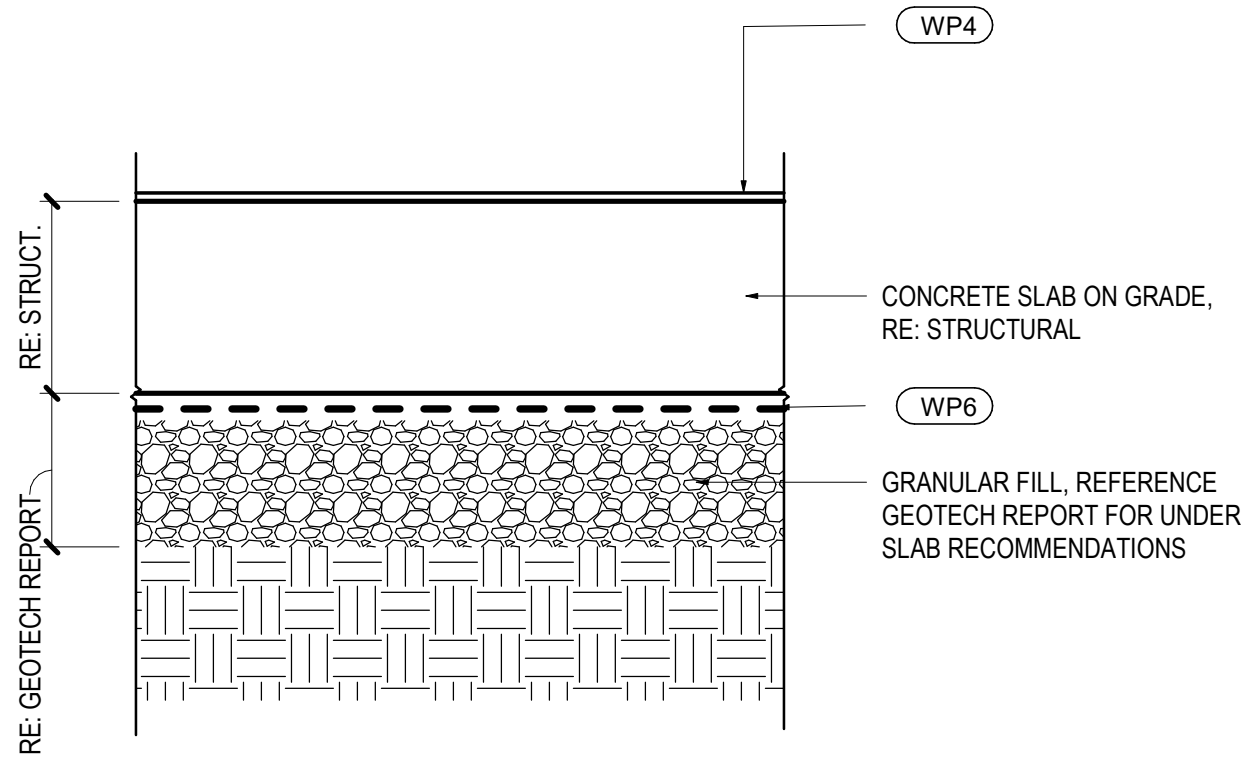
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17 NOT USED

13 NOT USED

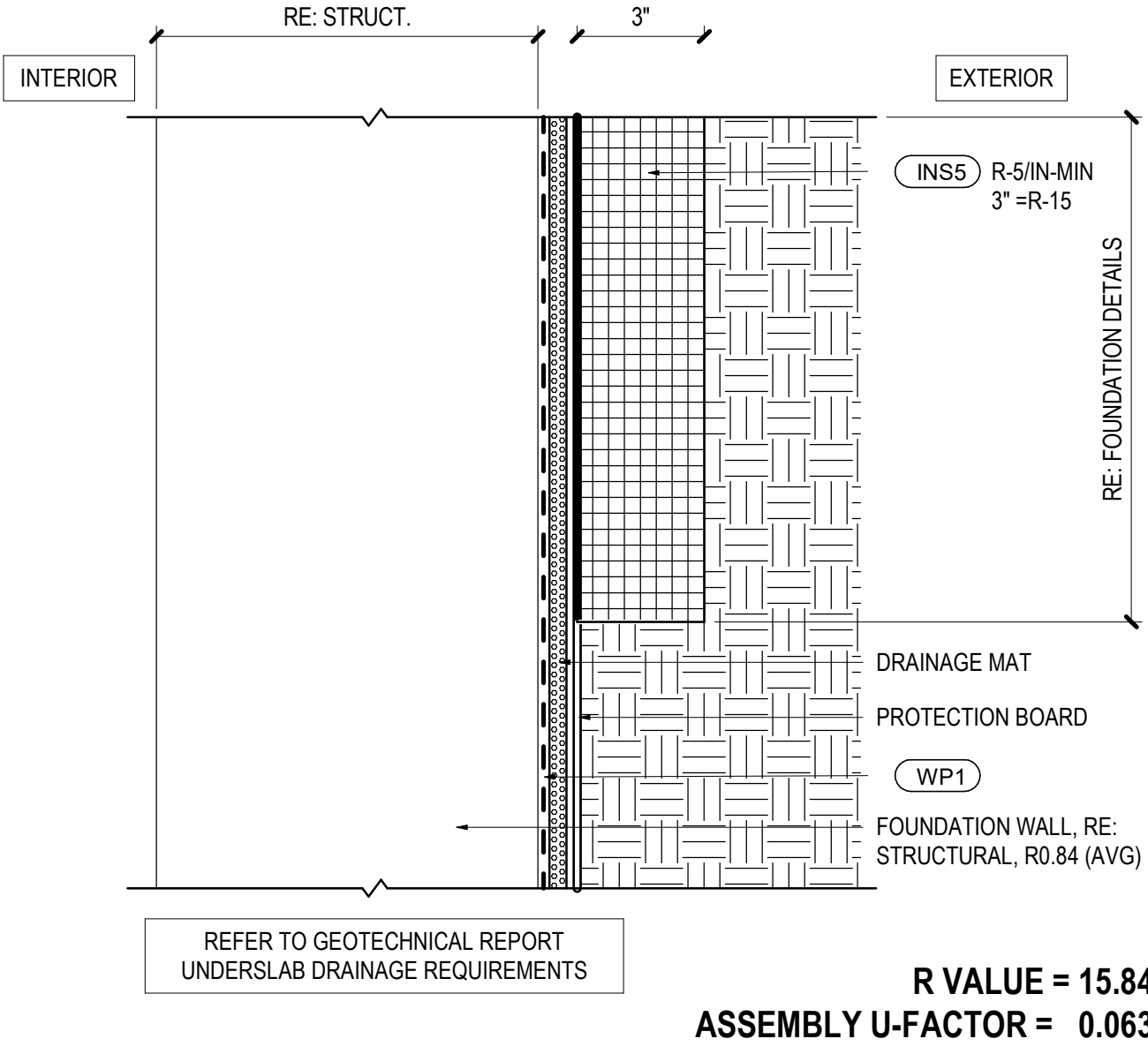
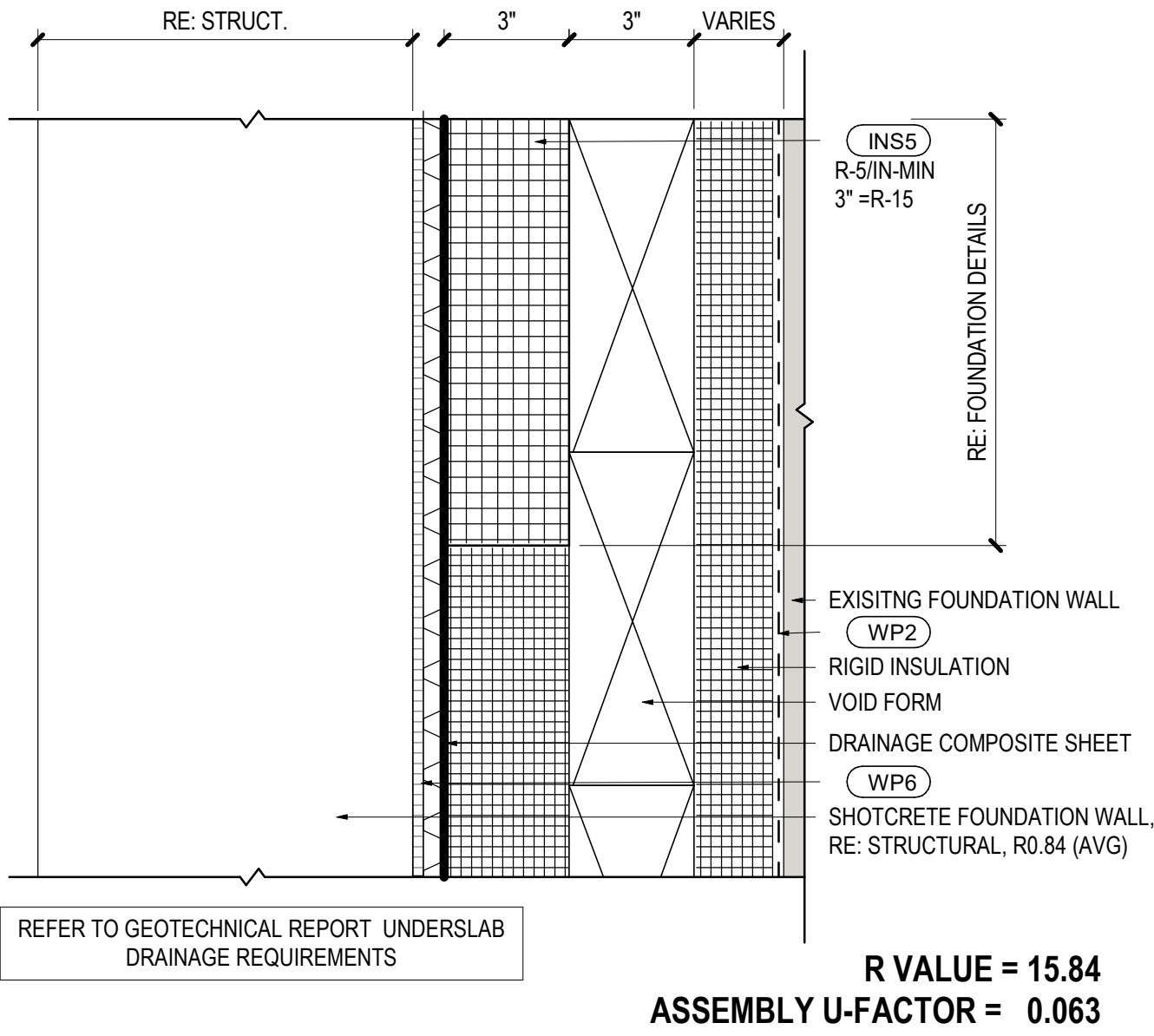
09 FL2-CN1 - SLAB ON GRADE

SCALE: 1 1/2" = 1'-0"

05 NOT USED

01 FL1-CN1 - CONCRETE ON METAL DECK

SCALE: 1 1/2" = 1'-0"



10 NOT USED

06 FN2 - FOUNDATION WALL

SCALE: 3" = 1'-0"

02 FN1 - FOUNDATION WALL

SCALE: 3" = 1'-0"

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GENERAL NOTES

- TOPOGRAPHIC AND EXISTING CONDITIONS MAPPED BY LANDMARK CONSULTANTS, INC.
- CITY OF STEAMBOAT SPRINGS PLAN REVIEW AND APPROVAL IS ONLY FOR GENERAL CONFORMANCE WITH CITY DESIGN CRITERIA AND THE CITY CODE. THE CITY IS NOT RESPONSIBLE FOR THE COMPLETENESS, ACCURACY AND ADEQUACY OF THE DRAWINGS, DESIGN, DIMENSIONS, AND ELEVATIONS SHALL BE CONFIRMED AND CORRELATED AT THE JOB SITE.
- ONE COPY OF THE APPROVED CONSTRUCTION PLANS AND SPECIFICATIONS SHALL BE KEPT ON THE JOB SITE AT ALL TIMES. PRIOR TO THE START OF CONSTRUCTION, VERIFY WITH PROJECT ENGINEER THE LATEST REVISION DATE OF THE APPROVED CONSTRUCTION PLANS.
- ALL MATERIALS, WORKMANSHIP, AND CONSTRUCTION OF PUBLIC IMPROVEMENTS SHALL MEET OR EXCEED THE STANDARDS AND SPECIFICATIONS SET FORTH IN THE CITY OF STEAMBOAT SPRINGS TECHNICAL SPECIFICATIONS (MARCH 2018 EDITION), THE STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION BY THE COLORADO DEPARTMENT OF TRANSPORTATION, (2017 EDITION), AND APPLICABLE STATE AND FEDERAL REGULATIONS, WHERE THERE IS A DIRECT CONFLICT BETWEEN THESE PLANS AND THE SPECIFICATIONS, OR ANY APPLICABLE STANDARDS, THE MOST RESTRICTIVE STANDARD SHALL APPLY.
- ALL WATER AND SANITARY SEWER CONSTRUCTION AND RELATED WORK SHALL CONFORM TO THE MOUNT WERNER WATER STANDARD SPECIFICATIONS FOR WATER AND WASTEWATER UTILITIES, CURRENT EDITION.
- ALL NECESSARY PERMITS AND APPROVALS FROM ALL APPLICABLE AGENCIES AS REQUIRED MUST BE OBTAINED IN ORDER TO PERFORM THE WORK. THIS INCLUDES, BUT IS NOT LIMITED TO, RIGHT-OF-WAY PERMIT, GRADING AND EXCAVATION PERMIT, CONSTRUCTION DEWATERING PERMIT, STORM WATER QUALITY PERMIT, ARMY CORP OF ENGINEER PERMIT, ETC. IT IS THE APPLICABLE CONTRACTOR'S RESPONSIBILITY TO OBTAIN A COPY OF ALL APPLICABLE CODES, LICENSES, SPECIFICATIONS, AND STANDARDS NECESSARY TO PERFORM THE WORK, AND BE FAMILIAR WITH THEIR CONTENTS PRIOR TO COMMENCING ANY WORK.
- PRIOR TO ANY WORK IN THE CITY RIGHT-OF-WAY INCLUDING STREET CUTS, CONTACT THE CITY OF STEAMBOAT SPRINGS STREET DEPARTMENT AT 970.879.1807 FOR PERMIT REQUIREMENTS. NO WORK SHALL OCCUR IN THE ROW BETWEEN NOVEMBER 1 - APRIL 1 UNLESS A WRITTEN VARIANCE HAS BEEN APPROVED AND ISSUED BY THE CITY PUBLIC WORKS DIRECTOR.
- PRIOR TO CLOSURE OF ANY STREET OR PART OF STREET, AN APPROVED OBSTRUCTION PERMIT MUST BE ISSUED BY CITY CONSTRUCTION SERVICES FOREMAN.
- PRIOR TO START OF CONSTRUCTION A PRE-CONSTRUCTION MEETING SHALL BE SCHEDULED WITH THE APPROPRIATE CONTRACTORS, ENGINEER, SURVEYOR, TESTING COMPANY, AFFECTED AGENCIES AND KEY SUBCONTRACTORS A MINIMUM OF 48-HOURS PRIOR TO THE START OF WORK.
- THE LOCAL ENTITY AND ENGINEER SHALL BE NOTIFIED AT LEAST 2 WORKING DAYS PRIOR TO THE START OF ANY EARTH DISTURBING ACTIVITY, OR CONSTRUCTION ON AND ANY ALL PUBLIC IMPROVEMENTS. THE LOCAL ENTITY RESERVES THE RIGHT NOT TO ACCEPT THE IMPROVEMENTS IF SUBSEQUENT TESTING REVEALS AN IMPROPER INSTALLATION.
- COORDINATE WITH THE PROJECT ENGINEER TO IDENTIFY PROJECT INSPECTION AND TESTING REQUIREMENTS. PROVIDE FOR INSPECTIONS AND TESTING AT AN ADEQUATE FREQUENCY FOR THE PROJECT ENGINEER TO DOCUMENT THAT PROJECT IS CONSTRUCTED IN CONFORMANCE WITH THE APPROVED PLANS AND SPECIFICATIONS. PRIOR TO MAKING ANY CHANGES TO THE APPROVED PLANS, IT IS THE APPROPRIATE CONTRACTOR'S RESPONSIBILITY TO COORDINATE WITH THE PROJECT ENGINEER.
- PROVIDE THE OWNER, ENGINEER, THEIR CONSULTANTS, INDEPENDENT TESTING LABORATORIES, ANY GOVERNMENTAL AGENCIES WITH JURISDICTIONAL INTERESTS, OTHER REPRESENTATIVES AND PERSONNEL, ACCESS TO THE SITE AND THE WORK AT REASONABLE TIMES FOR THEIR OBSERVATION, INSPECTING, AND TESTING. PROVIDE THEM PROPER AND SAFE CONDITIONS FOR SUCH ACCESS AND ADVISE THEM OF THE DEVELOPERS SITE SAFETY PROCEDURES AND PROGRAMS SO THAT THEY MAY COMPLY THEREWITH AS IS APPLICABLE. COORDINATE WITH THE PROJECT ENGINEER SO THAT INSPECTING AND TESTING ARE PROVIDED AT AN ADEQUATE FREQUENCY FOR THE PROJECT ENGINEER TO AFFIRM THAT WORK WAS COMPLETED IN SUBSTANTIAL CONFORMANCE WITH THESE APPROVED PLANS.
- NO WORK MAY COMMENCE WITHIN ANY IMPROVED PUBLIC RIGHT-OF-WAY UNTIL A RIGHT-OF-WAY PERMIT OR APPROVED CONSTRUCTION PERMIT IS OBTAINED. IF APPLICABLE, SUBMIT A CONSTRUCTION TRAFFIC CONTROL PLAN, IN ACCORDANCE WITH MUTCD, TO THE APPROPRIATE RIGHT-OF-WAY AUTHORITY, (LOCAL ENTITY, COUNTY OR STATE), FOR APPROVAL, PRIOR TO ANY CONSTRUCTION ACTIVITIES WITHIN, OR AFFECTING, THE RIGHT-OF-WAY. PROVIDE ANY AND ALL TRAFFIC CONTROL DEVICES AS MAY BE REQUIRED BY THE CONSTRUCTION ACTIVITIES.
- SUBMIT A CONSTRUCTION SITE MANAGEMENT PLAN (CSMP) FOR REVIEW AND APPROVAL BY THE CITY CONSTRUCTION SERVICES FOREMAN PRIOR TO START OF CONSTRUCTION. THE CSMP MUST BE MAINTAINED ON-SITE AND UPDATED AS NEEDED TO REFLECT CURRENT CONDITIONS.
- ALL CONTRACTORS ARE SPECIFICALLY CAUTIONED THAT THE LOCATION AND/OR ELEVATION OF EXISTING UTILITIES, AS SHOWN ON THESE PLANS, IS BASED ON RECORDS OF THE VARIOUS UTILITY COMPANIES AND, WHERE POSSIBLE, MEASUREMENTS TAKEN IN THE FIELD. THE INFORMATION IS NOT TO BE RELIED UPON AS BEING EXACT OR COMPLETE. CONTACT THE UTILITY NOTIFICATION CENTER OF COLORADO (NOC) AT 1-800-922-1987, AT LEAST 48 HOURS PRIOR TO BEGINNING EXCAVATION OR GRADING, TO HAVE ALL REGISTERED UTILITY LOCATIONS MARKED. OTHER UNREGISTERED UTILITY ENTITIES (I.E. DITCH / IRRIGATION COMPANY) ARE TO BE LOCATED BY CONTACTING THE RESPECTIVE REPRESENTATIVE. UTILITY SERVICE LATERALS ARE ALSO TO BE LOCATED PRIOR TO BEGINNING EXCAVATION OR GRADING. THE TYPE, SIZE, LOCATION AND NUMBER OF ALL KNOWN UNDERGROUND UTILITIES ARE APPROXIMATE WHEN SHOWN ON THE DRAWINGS. VERIFY THE EXISTENCE AND LOCATION OF ALL UNDERGROUND UTILITIES ALONG THE ROUTE OF THE WORK BEFORE COMMENCING NEW CONSTRUCTION. THE CONTRACTOR SHALL NOTIFY THE ENGINEER OF ALL EXISTING UTILITIES THAT CONFLICT WITH THE PROPOSED IMPROVEMENTS SHOWN ON THESE PLANS.
- FIELD LOCATE AND VERIFY ELEVATIONS OF ALL EXISTING SEWER MAINS, WATER MAINS, CURBS, GUTTERS AND OTHER UTILITIES AT THE POINTS OF CONNECTION SHOWN ON THE PLANS, AND AT ANY UTILITY CROSSINGS PRIOR TO INSTALLING ANY OF THE NEW IMPROVEMENTS. IF A CONFLICT EXISTS AND/OR A DESIGN MODIFICATION IS REQUIRED, COORDINATE WITH THE ENGINEER. DESIGN THE DESIGN, DESIGN MODIFICATION(S) MUST BE APPROVED BY THE LOCAL ENTITY PRIOR TO BEGINNING CONSTRUCTION.
- ALL UTILITY INSTALLATIONS WITHIN OR ACROSS THE ROADBED OR OTHER PAVED AREAS MUST BE COMPLETED PRIOR TO THE FINAL STAGES OF ROAD CONSTRUCTION, FOR THE PURPOSES OF THESE STANDARDS, ANY WORK INCLUDING, GRAVELS, PAVEMENTS, CURB AND GUTTER ABOVE THE SUBGRADE IS CONSIDERED FINAL STAGE WORK. ALL SERVICE LINES MUST BE TIED BEYOND THE ROAD PLATFORM OR TO THE PROPERTY LINES AND MARKED SO AS TO REDUCE THE EXCAVATION NECESSARY FOR BUILDING CONNECTIONS.
- COORDINATE AND COOPERATE WITH THE LOCAL ENTITY, AND ALL UTILITY COMPANIES INVOLVED, WITH REGARD TO RELOCATIONS, ADJUSTMENTS, EXTENSIONS AND REARRANGEMENTS OF EXISTING UTILITIES DURING CONSTRUCTION, AND TO ASSURE THAT THE WORK IS ACCOMPLISHED IN A TIMELY FASHION AND WITH A MINIMUM DISRUPTION OF SERVICE. CONTACT, IN ADVANCE, ALL PARTIES AFFECTED BY ANY DISRUPTION OF ANY UTILITY SERVICE AS WELL AS THE UTILITY COMPANIES.
- NO WORK MAY COMMENCE WITHIN ANY PUBLIC STORM WATER, SANITARY SEWER OR POTABLE WATER SYSTEM UNTIL THE UTILITY PROVIDERS ARE NOTIFIED. NOTIFICATION SHALL BE A MINIMUM OF TWO (2) WORKING DAYS PRIOR TO COMMENCEMENT OF ANY WORK. AT THE DISCRETION OF THE WATER UTILITY PROVIDER, A PRE-CONSTRUCTION MEETING MAY BE REQUIRED PRIOR TO COMMENCEMENT OF ANY WORK.
- PROTECT ALL UTILITIES DURING CONSTRUCTION AND FOR COORDINATE WITH THE APPROPRIATE UTILITY COMPANY FOR ANY UTILITY CROSSINGS REQUIRED.
- WHEN APPLICABLE, THE DEVELOPER AND/OR CONTRACTOR SHALL HAVE ONSITE AT ALL TIMES, EACH OF THE FOLLOWING:
 - BEST MANAGEMENT PRACTICES (BMP) MAINTENANCE FOLDER
 - UP TO DATE STORMWATER MANAGEMENT PLAN (SWMP) THAT ACCURATELY REPRESENTS CURRENT FIELD CONDITIONS
 - ONE (1) SIGNED COPY OF THE APPROVED PLANS
 - ONE (1) COPY OF THE APPROPRIATE STANDARDS AND SPECIFICATIONS
 - A COPY OF ANY PERMITS AND EXTENSION AGREEMENTS NEEDED FOR THE JOB.
- IF, DURING THE CONSTRUCTION PROCESS, CONDITIONS ARE ENCOUNTERED WHICH COULD INDICATE A SITUATION THAT IS NOT IDENTIFIED IN THE PLANS OR SPECIFICATIONS, CONTACT THE DESIGNER AND THE LOCAL ENTITY ENGINEER IMMEDIATELY.
- ALL REFERENCES TO ANY PUBLISHED STANDARDS SHALL REFER TO THE LATEST REVISION OF SAID STANDARD, UNLESS SPECIFICALLY STATED OTHERWISE.
- PROVIDE ALL LABOR AND MATERIALS NECESSARY FOR THE COMPLETION OF THE INTENDED IMPROVEMENTS SHOWN ON THESE DRAWINGS, OR DESIGNATED TO BE PROVIDED, INSTALLED, OR CONSTRUCTED, UNLESS SPECIFICALLY NOTED OTHERWISE.
- THE CONTRACTOR SHALL BE RESPONSIBLE FOR RECORDING AS-BUILT INFORMATION ON A SET OF RECORD DRAWINGS KEPT ON THE CONSTRUCTION SITE, AND AVAILABLE TO THE LOCAL ENTITY'S INSPECTOR AT ALL TIMES.
- DIMENSIONS FOR LAYOUT AND CONSTRUCTION ARE NOT TO BE SCALED FROM ANY DRAWING. IF PERTINENT DIMENSIONS OR ELEVATIONS ARE NOT SHOWN, CONTACT THE DESIGNER FOR CLARIFICATION, AND ANNOTATE THE PROVIDED DIMENSION ON THE AS-BUILT RECORD DRAWINGS. CONTOURS ARE NOT SUITABLE FOR CONSTRUCTION LAYOUT.
- SEQUENCE INSTALLATION OF UTILITIES IN SUCH A MANNER AS TO MINIMIZE POTENTIAL UTILITY CONFLICTS. IN GENERAL, GRADE RESTRICTED UTILITIES SUCH AS STORM SEWER AND SANITARY SEWER, SHOULD BE CONSTRUCTED PRIOR TO INSTALLATION OF THE WATER LINES AND DRY UTILITIES.
- EXISTING FENCES, TREES, STREETS, SIDEWALKS, CURBS AND GUTTERS, LANDSCAPING, STRUCTURES, AND IMPROVEMENTS DESTROYED, DAMAGED OR REMOVED DUE TO CONSTRUCTION OF THIS PROJECT SHALL BE REPLACED OR RESTORED IN LIKE KIND AT THE CONTRACTOR'S EXPENSE, UNLESS OTHERWISE INDICATED ON THESE PLANS.
- THESE CONSTRUCTION PLANS SHALL BE VALID FOR A PERIOD OF THREE YEARS FROM THE DATE OF APPROVAL BY THE AHA. USE OF THESE PLANS AFTER THE EXPIRATION DATE WILL REQUIRE A NEW REVIEW AND APPROVAL PROCESS BY THE LOCAL ENTITY PRIOR TO COMMENCEMENT OF ANY WORK SHOWN IN THESE PLANS.
- ALL CONSTRUCTION IN AREAS DESIGNATED AS WILD FIRE HAZARD AREAS SHALL BE DONE IN ACCORDANCE WITH THE CONSTRUCTION CRITERIA AS ESTABLISHED IN THE WILD FIRE HAZARD AREA MITIGATION REGULATIONS IN FORCE AT THE TIME OF CONSTRUCTION.
- THE CONTRACTOR AGREES THAT BY COMMENCING CONSTRUCTION THAT HE SHALL ASSUME SOLE AND COMPLETE RESPONSIBILITY FOR JOB SITE CONDITIONS DURING THE CONSTRUCTION OF THE PROJECT, INCLUDING, BUT NOT LIMITED TO THE SAFETY OF ALL PERSONS AND PROPERTY, THAT THIS REQUIREMENT SHALL APPLY CONTINUOUSLY AND NOT BE LIMITED TO NORMAL WORKING HOURS, AND THAT THE CONTRACTOR SHALL DEFEND, INDEMNIFY AND HOLD T THE ENGINEER, AND THE GOVERNING AGENCIES AND THE OFFICERS, DIRECTORS, PARTNERS, EMPLOYEES, AGENTS AND OTHER CONSULTANTS OF EACH AND ANY OF THEM HARMLESS FROM ANY AND ALL LIABILITY, REAL OR ALLEGED, IN CONNECTION WITH THE PERFORMANCE OF WORK ON THIS PROJECT, EXCEPT FOR LIABILITY ARISING FROM THE NEGLIGENCE OF THE OWNER, THE ENGINEER, OR THE GOVERNING AGENCIES.
- NOTIFY THE ENGINEER IMMEDIATELY UPON DISCOVERING ANY CONFLICTS OR OTHER PROBLEMS IN CONFORMING TO THE APPROVED CONSTRUCTION DRAWINGS, SPECIFICATIONS OR DETAILS FOR ANY ELEMENT OF THE PROPOSED IMPROVEMENTS PRIOR TO PROCEEDING WITH ITS CONSTRUCTION.
- COORDINATE THE INSTALLATION OR RELOCATION OF THE DRY UTILITY COMPANY'S FACILITIES. COST OF THE DRY UTILITY WORK SHALL BE BORNE BY THE OWNER, EXCEPT AS INDICATED IN THE PLANS AND SPECIFICATIONS.
- PRESERVE PRIVATE AND PUBLIC PROPERTY AND PROTECT IT FROM DAMAGE THAT MAY RESULT FROM CONSTRUCTING THESE PROPOSED IMPROVEMENTS.

- ACCESS TO ALL ADJACENT PROPERTIES AND FACILITIES SHALL BE MAINTAINED AT ALL TIMES. REQUIRED INTERRUPTION OF ACCESS SHALL BE COORDINATED WITH THE PROPERTY AND PROJECT OWNERS.
- IF HAZARDOUS MATERIAL OR SUSPECT MATERIAL IS ENCOUNTERED NOTIFY THE OWNER AND ENGINEER BEFORE CONTINUING WORK. HAZARDOUS MATERIALS SHALL BE REMOVED AS REQUIRED.
- THE APPROPRIATE CONTRACTOR SHALL BE RESPONSIBLE FOR THE SOURCE OF CONSTRUCTION WATER FOR USE ON THIS PROJECT.
- EXCESS MATERIAL SHALL BE REMOVED FROM SITE AND HANDLED IN ACCORDANCE TO ALL RULES AND REQUIREMENTS. A SEPARATE PERMIT MAY BE REQUIRED AND SHALL BE COORDINATED WITH THE AUTHORITY HAVING JURISDICTION.
- OFFSITE AND ADJACENT SITE DATA IS FOR REFERENCE PURPOSES ONLY.
- ALL LANDSCAPING, REVEGETATION AND WETLANDS REQUIREMENTS DESIGN BY OTHERS. ALL DISTURBED AREAS ARE TO BE REVEGETATED UNLESS OTHERWISE NOTED.
- ENSURE THAT WORK FOR THIS PROJECT BE PERFORMED BY CONTRACTORS (INCLUDING CONTRACTOR'S EMPLOYEES AND AGENTS) POSSESSING THE SKILLS, EXPERTISE AND UNDERSTANDING OF ALL APPLICABLE CODES, SPECIFICATIONS, STANDARDS AND MANUFACTURER REQUIREMENTS. BY COMMENCING WORK, THE CONTRACTORS REPRESENT THAT THEY UNDERSTAND AND ACCEPT THIS REQUIREMENT.
- ALL CONSTRUCTION ACTIVITIES AND DISTURBANCES SHALL OCCUR WITHIN THE PROPERTY LIMITS. WHERE OFF-SITE WORK IS APPROVED, WRITTEN PERMISSION OF THE ADJACENT PROPERTY OWNER MUST BE OBTAINED PRIOR TO ANY OFF-SITE GRADING OR CONSTRUCTION.

CONSTRUCTION NOTES

A. GRADING AND DRAINAGE

- NO WORK SHALL OCCUR IN WETLANDS OR ON FLOODPLAINS WITHOUT PERMITS. ANY WORK SHALL BE IN ACCORDANCE WITH ISSUED PERMITS.
- VEGETATED SLOPES GREATER THAN 3:1 REQUIRE SOIL STABILIZATION.
- CLEAN ALL INSTALLED CULVERTS AND STORM SEWERS PRIOR TO SUBSTANTIAL COMPLETION INSPECTIONS.
- LENGTHS SHOWN ON PLANS ARE HORIZONTAL. LENGTHS FROM CENTER OF MANHOLE TO CENTER OF MANHOLE OR TO THE END OF THE FLARED END SECTIONS, ACTUAL LENGTHS MAY VARY.
- SLOPES ARE CALCULATED FROM INSIDE EDGE OF MANHOLE/STRUCTURE TO INSIDE EDGE OF MANHOLE/STRUCTURE.
- IMPERVIOUS CLAY DAMS ARE REQUIRED IN TRENCH AT 50-FT INTERVALS AND AT CHANGES IN PIPE DIRECTION AND/OR AT PIPE JUNCTIONS FOR ALL DRAINAGE STRUCTURES.
- MINIMUM RECOMMENDATIONS (TO BE CONFIRMED OR REPLACED BY GEOTECHNICAL ENGINEER): PROPOSED FILL AREAS WHERE PAVEMENT OR SITE CONCRETE IS ANTICIPATED SHOULD BE PREPARED BY STRIPPING EXISTING TOPSOIL, AND ORGANIC MATERIALS, SCARIFICATION TO A DEPTH OF AT LEAST 8 INCHES AND COMPACTION TO MINIMUM VALUES GIVEN BELOW. MOISTURE CONDITIONING MAY BE REQUIRED TO ATTAIN STABILITY AND MINIMUM COMPACTION.

SITE FILLS AND TRENCH BACKFILL SHOULD CONSIST OF APPROVED ON-SITE OR IMPORTED MATERIALS. FILLS SHOULD BE UNIFORMLY PLACED AND COMPACTED IN 6 TO 8 INCH LODES UP TO AT LEAST 95 PERCENT OF THE MAXIMUM STANDARD PROCTOR DENSITY AND WITHIN 2 PERCENT OF THE OPTIMUM MOISTURE CONTENT (ASTM D698). MOISTURE CONDITIONING OF FILL MATERIALS MAY BE REQUIRED TO ATTAIN MINIMUM COMPACTION AND STABILITY REQUIREMENTS.

- A GEOTECHNICAL REPORT FOR THIS PROJECT WAS PREPARED UNDER THE TITLE OF "SUBSOIL AND FOUNDATION INVESTIGATION, STEAMBOAT BASE AREA REDEVELOPMENT, STEAMBOAT SPRINGS, COLORADO" BY NWCC DATED DECEMBER 30, 2020, AND THEIR RECOMMENDATIONS ARE HEREBY INCORPORATED HEREIN. IF A CONFLICT OR DISCREPANCY OCCURS, NOTIFY THE ENGINEER IMMEDIATELY UPON DISCOVERY.

B. CONSTRUCTION SITE AND STORMWATER MANAGEMENT

- CONTRACTOR SHALL SUBMIT A CONSTRUCTION SITE MANAGEMENT PLAN TO THE CITY FOR APPROVAL PRIOR TO BUILDING PERMIT ISSUANCE.
- WHEN REQUIRED THE CONTRACTOR SHALL PREPARE A STORMWATER MANAGEMENT PLAN. THE STORMWATER MANAGEMENT PLAN SHALL BE PREPARED BY A QUALIFIED INDIVIDUAL WITH KNOWLEDGE IN THE PRINCIPLES AND PRACTICES OF EROSION AND SEDIMENT CONTROL AND POLLUTION PREVENTION. THIS INDIVIDUAL SHOULD BE RESPONSIBLE FOR DEVELOPING, IMPLEMENTING, MAINTAINING, AND REVISING THE STORMWATER MANAGEMENT PLAN FOR THE DURATION OF THE PROJECT.
- THE STORMWATER MANAGEMENT PLAN SHOULD ADDRESS INSTALLATION, INSPECTION AND MAINTENANCE OF ALL NECESSARY EROSION AND SEDIMENT CONTROL DURING CONSTRUCTION AND REMOVE EROSION CONTROL WHEN PROJECT IS COMPLETE AND VEGETATION IS ESTABLISHED. WHEN TEMPORARY EROSION CONTROL MEASURES ARE REMOVED, CLEAN UP AND REMOVE ALL SEDIMENT AND DEBRIS FROM ALL DRAINAGE INFRASTRUCTURE AND OTHER PUBLIC FACILITIES.
- ALL REQUIRED PERIMETER SILT AND CONSTRUCTION FENCING SHALL BE INSTALLED PRIOR TO ANY LAND DISTURBING ACTIVITY (STOCKPILING, STRIPPING, GRADING, ETC.). ALL OTHER REQUIRED EROSION CONTROL MEASURES SHALL BE INSTALLED AT THE APPROPRIATE TIME IN THE CONSTRUCTION SEQUENCE AS INDICATED IN THE APPROVED PROJECT SCHEDULE, CONSTRUCTION PLANS, AND STORMWATER MANAGEMENT PLAN.
- ENSURE THAT NO MUD OR DEBRIS SHALL BE TRACKED ONTO THE EXISTING PUBLIC STREET SYSTEM. MUD AND DEBRIS MUST BE REMOVED BY THE END OF EACH WORKING DAY BY AN APPROPRIATE MECHANICAL METHOD (I.E. MACHINE BROOM SWEEP, LIGHT DUTY FRONT-END LOADER, ETC.) OR AS APPROVED BY THE LOCAL ENTITY STREET INSPECTOR.
- ALL STRUCTURAL EROSION CONTROL MEASURES SHALL BE INSTALLED AT THE LIMITS OF CONSTRUCTION AND AT AREAS WITH DISTURBED SOIL, ON- OR OFF-SITE, PRIOR TO ANY OTHER GROUND-DISTURBING ACTIVITY. ALL EROSION CONTROL MEASURES SHALL BE MAINTAINED IN GOOD REPAIR UNTIL SUCH TIME AS THE ENTIRE DISTURBED AREAS IS STABILIZED WITH HARD SURFACE OR LANDSCAPING, TO MITIGATE EROSION. UTILIZE STANDARD EROSION CONTROL TECHNIQUES DESCRIBED IN THE URBAN STORM DRAINAGE CRITERIA MANUAL, VOLUME 3 - BEST MANAGEMENT PRACTICES, AS PUBLISHED BY THE URBAN DRAINAGE AND FLOOD CONTROL DISTRICT (UDFC).
- PRE-DISTURBANCE VEGETATION SHALL BE PROTECTED AND RETAINED WHEREVER POSSIBLE. REMOVAL OR DISTURBANCE OF EXISTING VEGETATION SHALL BE LIMITED TO THE AREAS REQUIRED FOR IMMEDIATE CONSTRUCTION OPERATIONS, AND FOR THE SHORTEST PRACTICAL PERIOD OF TIME.
- IMMEDIATELY CLEAN UP ANY CONSTRUCTION MATERIALS INADVERTENTLY DEPOSITED ON EXISTING STREETS, SIDEWALKS, OR OTHER PUBLIC RIGHTS OF WAY, AND MAKE SURE STREETS AND WALKWAYS ARE CLEANED AT THE END OF EACH WORKING DAY.
- ALL RETAINED SEDIMENTS, PARTICULARLY THOSE ON PAVED ROADWAY SURFACES, SHALL BE REMOVED AND DISPOSED OF IN A MANNER AND LOCATION SO AS NOT TO CAUSE THEIR RELEASE INTO ANY WATERS OF THE UNITED STATES.
- THE STORMWATER VOLUME CAPACITY OF DETENTION PONDS WILL BE RESTORED AND STORM SEWER LINES WILL BE CLEANED UPON COMPLETION OF THE PROJECT.
- THE COLORADO DISCHARGE PERMIT SYSTEM (CDPS) REQUIREMENTS MAKE IT UNLAWFUL TO DISCHARGE OR ALLOW THE DISCHARGE OF ANY POLLUTANT OR CONTAMINATED WATER FROM CONSTRUCTION SITES. POLLUTANTS INCLUDE, BUT ARE NOT LIMITED TO DISCARDED BUILDING MATERIALS, CONCRETE TRUCK WASHOUT, CHEMICALS, OIL AND GAS PRODUCTS, LITTER, AND SANITARY WASTE. TAKE WHATEVER MEASURES ARE NECESSARY TO ASSURE THE PROPER CONTAINMENT AND DISPOSAL OF POLLUTANTS ON THE SITE IN ACCORDANCE WITH ANY AND ALL APPLICABLE LOCAL, STATE, AND FEDERAL REGULATIONS.
- THE DRAINAGE REPORT SHALL BE REFERENCED WHEN PREPARING THE PROJECT'S STORMWATER MANAGEMENT PLAN. A DRAINAGE REPORT FOR THIS PROJECT WAS COMPLETED BY LANDMARK CONSULTANTS TITLED "T10" AND IS DATED "T10".

C. PAVING

- UNLESS NOTED OTHERWISE, THE PAVEMENT SECTION SHALL CONSIST OF:
 - 8-INCH THICK AGGREGATE SUBBASE COURSE: MODIFIED CDOT STANDARD CLASS 3 BASE AGGREGATE OR WELL GRADED PIT RUN CONFORMING TO CDOT STANDARD SPECIFICATION SECTION 703 FOR AGGREGATES
 - 4-INCH THICK AGGREGATE BASE COURSE: CDOT STANDARD SPECIFICATIONS SECTION 703.03 FOR CLASS 6 AGGREGATE BASE COURSE;
 - 4-INCH THICK ASPHALT PAVEMENT: CDOT STANDARD SPECIFICATIONS, LATEST EDITION, WITH TYPE SX GRADATION AND PG58-28 BINDER. TACK COATS SHALL BE SS-1H AND CONFORM TO ASHTO M140. PAVING OF PUBLIC STREETS SHALL NOT START UNTIL SUBGRADE COMPACTION AND MATERIAL TESTS ARE TAKEN AND ACCEPTED BY THE PUBLIC WORKS DIRECTOR.
- EXISTING ASPHALT PAVEMENT SHALL BE STRAIGHT SAW CUT A MINIMUM DISTANCE OF 12 INCHES FROM THE EXISTING EDGE, TO CREATE A CLEAN CONSTRUCTION JOINT. REMOVE EXISTING PAVEMENT TO A DISTANCE WHERE A CLEAN CONSTRUCTION JOINT CAN BE MADE. TACK COAT SHALL BE APPLIED TO ALL EXPOSED SURFACES INCLUDING SAW CUTS, POTHOLES, TRENCHES, AND ASPHALT OVERLAY. ASPHALT PATCHES IN THE RIGHT-OF-WAY SHALL BE PER CITY SPECIFICATIONS.
- CONTACT CITY STREETS SUPERINTENDENT AT (970) 879-1807 TO SCHEDULE INSTALLATION OF PUBLIC STREET SIGNS. ALL OTHER TRAFFIC CONTROL SIGNS ARE THE RESPONSIBILITY OF THE DEVELOPER.
- NO BASE MATERIAL SHALL BE LAID UNTIL THE SUBGRADE HAS BEEN INSPECTED AND APPROVED BY THE ENGINEER.
- VALVE BOXES, CLEANOUTS AND MANHOLES ARE TO BE BROUGHT UP TO GRADE AT THE TIME OF PAVEMENT PLACEMENT OR OVERLAY. VALVE BOX ADJUSTING RINGS ARE NOT ALLOWED.
- WHEN AN EXISTING ASPHALT STREET MUST BE CUT, THE STREET MUST BE RESTORED TO A CONDITION EQUAL TO OR BETTER THAN ITS ORIGINAL CONDITION. THE EXISTING STREET CONDITION SHALL BE DOCUMENTED BY THE ENGINEER BEFORE ANY CUTS ARE MADE. THE FINISHED PATCH SHALL BLEND SMOOTHLY INTO THE EXISTING SURFACE.
- PERFORM A GUTTER WATER FLOW TEST IN THE PRESENCE OF THE ENGINEER AND PRIOR TO INSTALLATION OF ASPHALT. GUTTERS THAT HOLD MORE THAN 1/4

INCH DEEP OR 5 FEET LONGITUDINALLY, OF WATER, SHALL BE COMPLETELY REMOVED AND RECONSTRUCTED TO DRAIN PROPERLY.

- PRIOR TO PLACEMENT OF H.B.P. OR CONCRETE WITHIN THE STREET AND AFTER MOISTURE/DENSITY TESTS HAVE BEEN TAKEN ON THE SUBGRADE MATERIAL (WHEN A FULL DEPTH SECTION IS PROPOSED) OR ON THE SUBGRADE AND BASE MATERIAL (WHEN A COMPOSITE SECTION IS PROPOSED), A MECHANICAL "PROOF ROLL" WILL BE REQUIRED. THE ENTIRE SUBGRADE AND/OR BASE MATERIAL SHALL BE ROLLED WITH A HEAVILY LOADED VEHICLE HAVING A TOTAL GVW OF NOT LESS THAN 50,000 LBS. AND A SINGLE AXLE WEIGHT OF AT LEAST 18,000 LBS. WITH PNEUMATIC TIRES INFLATED TO NOT LESS THAN 80 P.S.I.G. "PROOF ROLL" VEHICLES SHALL NOT TRAVEL AT SPEEDS GREATER THAN 3 M.P.H. ANY PORTION OF THE SUBGRADE OR BASE MATERIAL WHICH EXHIBITS EXCESSIVE PLUMPING OR DEFORMATION, AS DETERMINED BY THE ENGINEER, SHALL BE REWORKED, REPLACED OR OTHERWISE MODIFIED TO FORM A SMOOTH, NON-YIELDING SURFACE. THE ENGINEER SHALL BE NOTIFIED AT LEAST 24 HOURS PRIOR TO THE "PROOF ROLL." ALL "PROOF ROLLS" SHALL BE PERFORMED IN THE PRESENCE OF AN ENGINEER.

- NO UNDERMINING OF EXISTING PAVEMENT SHALL BE ALLOWED. IF UNDERMINING IS EVIDENT, PAVEMENT SHALL BE CUT BACK ACCORDINGLY. NO ADDITIONAL PAYMENT SHALL BE PROVIDED.

D. WATER AND SEWER NOTES

- ALL WATER AND SEWER CONSTRUCTION SHALL BE PER MT. WERNER WATER STANDARD SPECIFICATIONS, LATEST EDITION, AS APPLICABLE.
- MAINTAIN 10' HORIZONTAL AND 18" VERTICAL MINIMUM SEPARATION BETWEEN ALL SANITARY SEWER MAINS, WATER MAINS & SERVICES.
- MANHOLES LOCATED OUTSIDE OF THE ROADWAY SHALL PROTRUDE 1' ABOVE EXISTING GRADE TO REDUCE INFILTRATION. GRADE SURFACE TO DRAIN AROUND/AWAY FROM MANHOLE RIMS.
- ALL MANHOLES LOCATED IN THE ROADWAY SHALL HAVE RIM ELEVATIONS ADJUSTED TO 1/2" BELOW FINISHED GRADE. IF NECESSARY, CONE SECTIONS SHALL BE ROTATED TO PREVENT TIES BEING LOCATED WITHIN VEHICLE OR BICYCLE WHEEL PATHS.
- SEWER SERVICE SHALL HAVE A MINIMUM OF 4-FT OF COVER.
- WATER SERVICE SHALL HAVE A MINIMUM OF 7-FT OF COVER.
- ALL WATER PIPE SHALL BE INSTALLED WITH A #10 SOLID COPPER WIRE COATED WITH 45 MIL POLYETHYLENE FOR LOCATING PURPOSES. "CLEAN TEST STATIONS" BY VALVICO, INC. TRACER WIRE TEST STATIONS SHALL BE INSTALLED ADJACENT TO ALL FIRE HYDRANTS. ADDITIONAL LOCATIONS MAY BE REQUIRED.
- THE PARTICLE SIZE OF BEDDING AND SHADING MATERIAL SHALL BE 3/4 INCH WASHED OR SCREENED ROCK (NOT ROAD BASE OR CLASS 6) AND SHALL EXTEND THE FULL WIDTH OF THE TRENCH.
- ALL MATERIALS USED FOR BACKFILL SHALL BE FREE FROM REFUSE ORGANIC MATERIAL. COBBLES, BOULDERS, LARGE ROCKS OR STONES OR FROZEN SOILS GREATER THAN 6-INCHES IN DIAMETER.
- ALL TRENCHES SHALL BE COMPACTED TO 95% AS DETERMINED BY ASTM D608 (STANDARD PROCTOR) OR AS SPECIFIED BY GEOTECHNICAL ENGINEER.

PROJECT NOTES:

- AN AUTOCAD COMPATIBLE FILE WILL BE PROVIDED FOR CONSTRUCTION STAKING PURPOSES, UPON ACCEPTANCE OF LANDMARK'S CAD RELEASE POLICY.
- IF THESE DRAWINGS ARE PRESENTED IN A FORMAT OTHER THAN 24" X 36", THE GRAPHIC SCALE SHOULD NOT BE USED.
- THE CONTRACTOR ACKNOWLEDGES AND UNDERSTANDS THAT THE CONTRACT DOCUMENTS MAY REPRESENT IMPERFECT DATA AND MAY CONTAIN ERRORS, OMISSIONS, CONFLICTS, INCONSISTENCIES, CODE VIOLATIONS AND IMPROPER USE OF MATERIALS. SUCH DEFICIENCIES WILL BE CORRECTED CONTING IDENTIFIED. THE CONTRACTOR AGREES TO CAREFULLY STUDY AND COMPARE THE INDIVIDUAL CONTRACT DOCUMENTS AND REPORT AT ONCE IN WRITING T THE OWNER ANY DEFICIENCIES THE CONTRACTOR MAY DISCOVER. THE CONTRACTOR FURTHER AGREES TO REQUIRE EACH SUBCONTRACTOR TO LIKEWISE STUDY THE DOCUMENTS AND REPORT AT ONCE ANY DEFICIENCIES DISCOVERED.

THE CONTRACTOR SHALL RESOLVE ALL REPORTED APPLICABLE DEFICIENCIES WITH LANDMARK PRIOR TO AWARDDING ANY SUBCONTRACTS OR STARTING ANY WORK WITH THE CONTRACTOR'S OWN EMPLOYEES. IF ANY DEFICIENCIES CANNOT BE RESOLVED BY THE CONTRACTOR WITHOUT ADDITIONAL TIME OR ADDITIONAL EXPENSES, THE CONTRACTOR SHALL SO INFORM THE OWNER IN WRITING. ANY SUCH ADDITIONAL WORK PERFORMED PRIOR TO RECEIPT OF INSTRUCTIONS FROM THE OWNER WILL BE DONE AT THE CONTRACTOR'S RISK.

CONSTRUCTION PHASE SERVICES:

IT IS UNDERSTOOD AND AGREED THAT LANDMARK DOES NOT HAVE AN OBLIGATION TO CONDUCT CONSTRUCTION OBSERVATION OR REVIEW OF THE CONTRACTOR'S PERFORMANCE OR ANY OTHER CONSTRUCTION PHASE SERVICES, AND THAT SUCH SERVICES WILL BE PROVIDED FOR BY THE OWNER AS MAY BE REQUIRED BY THE AUTHORITY HAVING JURISDICTION OF STEAMBOAT SPRINGS. THE OWNER ASSUMES ALL RESPONSIBILITY FOR INTERPRETATION OF THESE CONSTRUCTION DOCUMENTS AND FOR CONSTRUCTION OBSERVATION AND THE OWNER WAIVES ANY CLAIMS AGAINST LANDMARK THAT MAY BE IN ANY WAY CONNECTED THERETO.

IN ADDITION, THE OWNER AGREES, TO THE FULLEST EXTENT PERMITTED BY LAW, TO INDEMNIFY AND HOLD HARMLESS LANDMARK, ITS OFFICERS, DIRECTORS, EMPLOYEES AND SUBCONSULTANTS (COLLECTIVELY, LANDMARK) AGAINST ALL DAMAGES, LIABILITIES OR COSTS, INCLUDING REASONABLE ATTORNEYS' FEES AND DEFENSE COSTS, ARISING OUT OF OR IN ANY WAY CONNECTED WITH THE PERFORMANCE OF SUCH SERVICES BY OTHER PERSONS OR ENTITIES AND FROM ANY AND ALL CLAIMS ARISING FROM MODIFICATIONS, CLARIFICATIONS, INTERPRETATIONS, ADJUSTMENTS OR CHANGES MADE TO THESE CONSTRUCTION DOCUMENTS TO REFLECT CHANGED FIELD OR OTHER CONDITIONS, EXCEPT FOR CLAIMS ARISING FROM THE SOLE NEGLIGENCE OR WILLFUL MISCONDUCT OF LANDMARK.

ABBREVIATIONS

ADA	AMERICANS WITH DISABILITIES ACT
APR	APPROXIMATE
BMP	BEST MANAGEMENT PRACTICE
BOY	BOTTOM
BVCS	BEGIN VERTICAL CURVE STATION
BVCE	BEGIN VERTICAL CURVE ELEVATION
BW OR BOW	BOTTOM OF WALL
CAC	CUT & COVER
CAP	CORRUGATED ALUMINUM PIPE
CIP	CAST-IN-PLACE
CL	CENTERLINE
CMP	CORRUGATED METAL PIPE
C.O	CLEAN-OUT
CP	CONCRETE PIPE
CSP	CORRUGATED STEEL PIPE
DIA	DIAMETER
DIP	DUCTILE IRON PIPE
EG	EXISTING GROUND
EL	ELEVATION
EOA OR EA	EDGE OF ASPHALT
ECC	EDGE OF CONCRETE
EOP	EDGE OF PAVEMENT
EVCE	END VERTICAL CURVE ELEVATION
EVCS	END VERTICAL CURVE STATION
EX	EXISTING
F&G	FRAME & GRATE
FAC	FRAME & COVER
FES	FLARED END SECTION
FFE	FINISH FLOOR ELEVATION
FW	FIRE HYDRANT
FL	FLOW LINE
FG	FINISH GRADE
FG&BW	FINISH GRADE AT BOTTOM OF WALL
GB	GRADE BREAK
GFFE	GARAGE FINISH FLOOR ELEVATION
GTD	GRADE TO DRAIN
HDPE	HIGH DENSITY POLYETHYLENE PIPE
HW	HWENT
LBS	POUNDS
LOD	LIMITS OF DISTURBANCE
MEP	MECHANICAL, ELECTRIC, AND PLUMBING
MAX	MAXIMUM
ME	MATCH EXISTING
MN	MANHOLE
MIN	MINIMUM
MJ	MECHANICAL JOINT
NAP OR N.A.P.	NOT A PART (NOT INCLUDED IN SCOPE)
N.T.S.	NOT TO SCALE
OFF	OFFSET
PC	POINT OF CURVE
PI	POINT OF INTERSECTION
PCOC	POINT OF CONVEX CURVE
PLSP	POROUS LANDSCAPE DETENTION POND
PRC	POINT OF REVERSE CURVE
PT	POINT OF TANGENT
PVC	POINT OF VERTICAL CURVE
PV	POLYVINYL CHLORIDE PIPE
PVI	POINT OF VERTICAL INTERSECTION
PVT	POINT OF VERTICAL TANGENT
R	RADIUS
RCF	REINFORCED CONCRETE PIPE
REQ	REQUIRED
ROW	RIGHT OF WAY
STA	STATION
TB	THRUST BLOCK
TBC	TOP BACK OF CURB
TBR	TO BE REMOVED
TG	TOP OF GRATE
TGP	TOP OF PIPE
TGS	TAPERED TO GRADE
TW OR TOW	TOP OF WALL
Typ	TYPICAL
VCP	VITRIFIED CLAY PIPE
VOL	VOLUME
W	WITH

CALL UTILITY NOTIFICATION CENTER OF COLORADO



Know what's below.

Call before you dig.

CALL 2 BUSINESS DAYS IN ADVANCE BEFORE YOU DIG. GROUND, OR DAMAGE TO UNDERGROUND MEMBER UTILITIES.

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MOUNTAIN COMPANY

2305 Mount Werner Circle
Steamboat Springs, CO 80487

Gensler

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Fax 303.625.6823



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Golden, CO
United States
Tel 303.421.6555



Date	Description
2021.05.19	BP3: PROMENADE - ISSUE FOR BID AND PERMIT

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Seal / Signature

Project Name
GONDOLA PLAZA

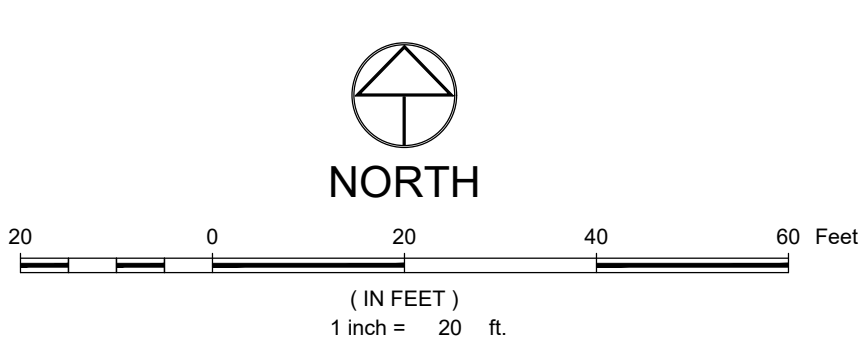
SSRC | BASE AREA IMPROVEMENTS

Project Number
003.7835.000

Description
Civil Notes

Scale
SEE GRAPHICAL SCALE

1A-C.002



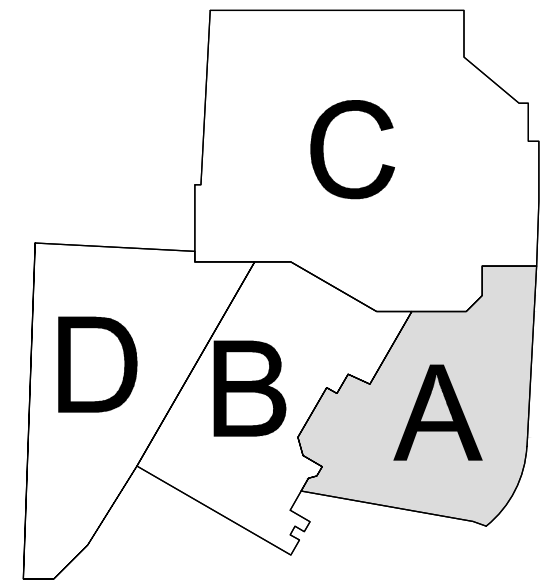
LEGEND

BUILDING	
ROOF LINE/OVERHANG	
DECK	
WALL	
FENCE	
MAJOR CONTOUR	
MINOR CONTOUR	
ASPHALT	
CONCRETE	
GRAVEL	
WOOD DECKING	
SIGN	
SANITARY SEWER LINE MARKER	
GATE VALVE, CURB STOP & BLOWOFF	
FIRE DEPT. CONNECTION, YARD HYDRANT, VENT PIPE, WATER MANHOLE AND WELL	
GAS LINE MARKER, VALVE, MANHOLE/VAULT AND METER	
CABLE LINE MARKER, VAULT AND PEDESTAL	
FIBER OPTIC LINE MARKER, VAULT & PEDESTAL	
SATELLITE DISH	
TELEPHONE LINE MARKER, VAULT, PEDESTAL AND MANHOLE	
ELECTRIC LINE MARKER, TRANSFORMER, METER AND SECONDARY PEDESTAL	
SNOW MELT DISTRIBUTION LINE AND VAULT	
SNOW MAKING WATER MAIN	
ELECTRIC MANHOLE, OUTLET, GENERATOR AND JUNCTION BOX	
LIGHT POLE AND LIGHT POLE W/ MAST	
PROPOSED DITCH / SWALE	
UTILITY POLE, GUY POLE & GUY WIRE	
DITCH/SWALE	
CULVERT W/ END SECTIONS	
STORM MANHOLE, AREA DRAIN, GRATE INLET AND CURB INLET	
AIR CONDITIONER, MAILBOX, NEWSTAND AND TRASH CAN	
BOLLARD, AREA LIGHT AND FLAG POLE	
CONIFEROUS AND DECIDUOUS TREE (SCALED TO APPROX. DRIPLINE)	
CONIFEROUS AND DECIDUOUS SHRUB (SCALED TO APPROX. DRIPLINE)	
FINISHED FLOOR ELEVATION (SEE NOTE 10)	

NOTES

- THIS EXISTING CONDITIONS PLAN DOES NOT REPRESENT A MONUMENTED LAND SURVEY OR IMPROVEMENT SURVEY. IT IS INTENDED ONLY TO DEPICT THAT INFORMATION REQUESTED BY OUR CLIENT.
- PARCEL AND RIGHT OF WAY BOUNDARIES ARE SHOWN HEREON BASED UPON THE APPLICABLE SUBDIVISION PLATS AND AVAILABLE PROPERTY CORNER MONUMENTS.
- BASIS OF HORIZONTAL CONTROL, COLORADO NORTH ZONE, STATE PLANE COORDINATE SYSTEM, NAD83(2011).
- UNITS SHOWN HEREON ARE IN US SURVEY FEET AND THE STANDARD OF DISTANCE ACCURACY FOR THIS MAP HAS BEEN DETERMINED TO BE GREATER THAN 1:10,000.
- SITE BENCHMARK: A RECOVERED 3" BRASS CAP MONUMENTING THE NORTHEAST CORNER OF SECTION 28, TOWNSHIP 6 NORTH, RANGE 84 WEST OF THE 6TH P.M. SHD BRASS CAP ALSO BEING CITY OF STEAMBOAT SPRINGS GIS CONTROL POINT NUMBER 344, HAVING AN ELEVATION OF 6935.31 BASED ON THE NORTH AMERICAN VERTICAL DATUM OF 1988 (NAVD88), AS SHOWN HEREON.
- CONTOUR INTERVAL = 1 FOOT
- BURIED UTILITIES AND/OR PIPE LINES ARE SHOWN PER VISIBLE SURFACE EVIDENCE, AS-BUILT DRAWINGS OF THE CONSTRUCTED UTILITY LINES AND MARKINGS PROVIDED BY A UTILITY LOCATING SERVICE. LOCATIONS SHOWN ARE APPROXIMATE. IF ANY UNDERGROUND UTILITY LOCATIONS ARE REQUIRED, THEY WILL HAVE TO BE VERIFIED BY FIELD POT-HOLING THE UTILITIES. LANDMARK CONSULTANTS, INC. AND THE SURVEYOR OF RECORD SHALL NOT BE LIABLE FOR THE LOCATION OF OR THE FAILURE TO NOTE THE LOCATION OF NON-VISIBLE UTILITIES.
- THE LAST FIELD INSPECTION OF THE SITE WAS ON JANUARY 5, 2021.
- ALL SYMBOLS ARE ONLY GRAPHICALLY REPRESENTED AND ARE NOT TO SCALE.
- FINISH FLOOR ELEVATIONS WERE OBTAINED BY MEASUREMENTS MADE ON LANDINGS OR DOOR SILLS OUTSIDE THE BUILDING. INTERIOR FLOOR ELEVATIONS SHOULD BE VERIFIED WHERE APPROPRIATE.
- WHERE 'MD' IS NOTED FOR STORM/AREA DRAIN INVERTS, THE DRAINS WERE MEASURED DOWN BUT IT WAS UNKNOWN WHETHER THE MEASUREMENT WAS TO A VYE, BEND OR INVERT DUE TO LACK OF VISIBILITY. THE MD IS INTENDED TO REPRESENT MEASURED DEPTH. SOME DISCREPANCIES MAY EXIST.

KEY PLAN



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RCRBD
Record Set
TC
07/10/2021

Date	Description
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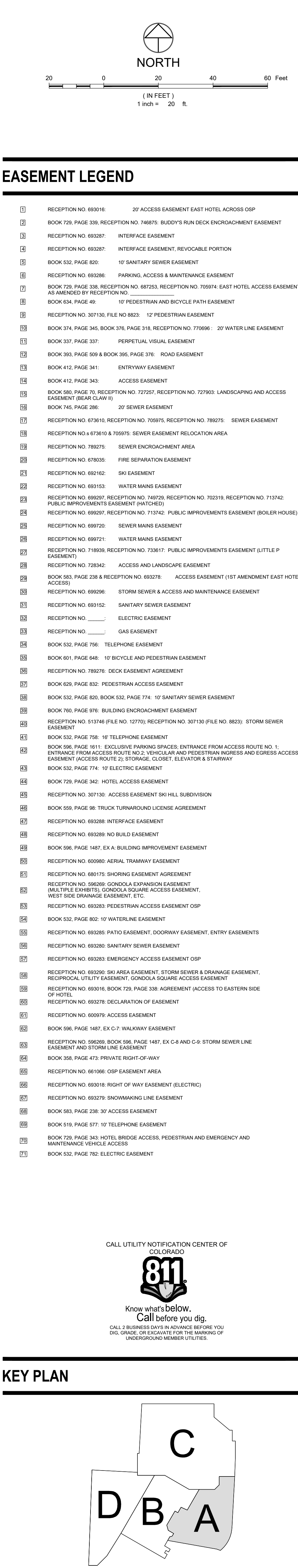
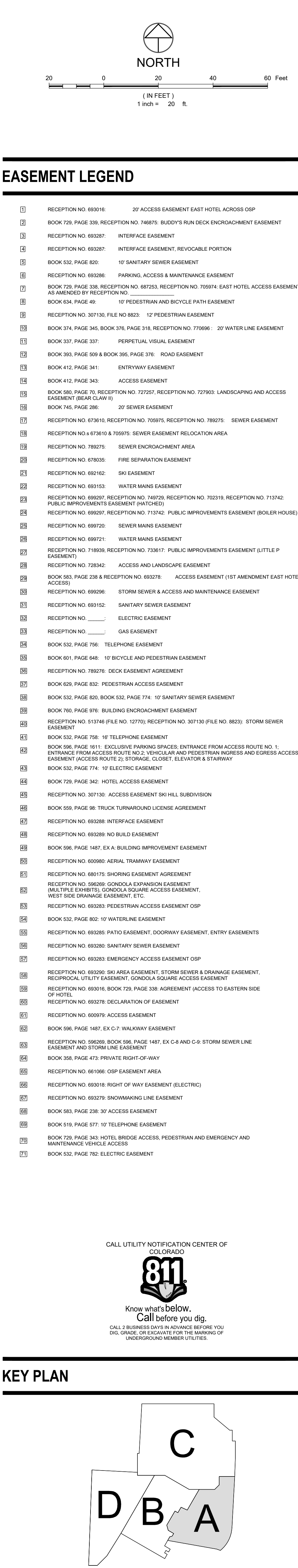
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Project Name	GONDOLA PLAZA
SSRC BASE AREA IMPROVEMENTS	
Project Number	003.7835.000
Description	Existing Conditions Plan

Scale	SEE GRAPHICAL SCALE
-------	---------------------

1A-C.003



STEAMBOAT RESORT
VILLAGE, LLC
RECEPTION NO. 657630

LOT 1
SKI HILL SUBDIVISION REPLAT OF PARCEL D
RECEPTION NO. 817319

HORIZONTAL CONTROL POINT
NORTHING: 1412127.77
EASTING: 2636956.17

GONDOLA SQUARE
CONDOMINIUMS
RECEPTION NO. 513745

BUILDING CONTROL
NORTHING: 1412001.26
EASTING: 2636953.92
GRIDLINE INTERSECTION B-2

PROJECT BENCHMARK
NORTHING: 1411938.08
EASTING: 2637112.08
NAVD83 EL. 6992.28
NAIL W/ BRASS DISK
STAMPED "LC/LB 26039"

OSP CONDOMINIUM AT
APRES SKI WAY
RECEPTION NO. 693283



30 0 30 60 90 Feet
(IN FEET)
1 inch = 30 ft.

LEGEND

PROPERTY BOUNDARY
TIE
CONTROL POINT
BENCHMARK
GRID LINE (BY OTHERS)

NOTES

- ALL REFERENCES HEREON TO BOOKS, PAGES, FILES, RECEPTION NUMBERS AND FILE NUMBERS ARE TO PUBLIC DOCUMENTS FILED IN THE RECORDS OF ROUTT COUNTY, COLORADO.
- COORDINATES AND BEARINGS SHOWN HEREON ARE COLORADO COORDINATE SYSTEM, NORTH ZONE 6501, US SURVEY FEET, NAD83(2011).
- BASIS OF BEARINGS: A GRID BEARING OF 73°07'30" BETWEEN THE PROJECT BENCHMARKS AS MONUMENTED AND SHOWN HEREON.
- THE POSITION AND ALIGNMENT OF THE GRIDLINES SHOWN HEREON **MUST** BE COORDINATED WITH THE ARCHITECTURAL AND STRUCTURAL PLANS.

Steamboat
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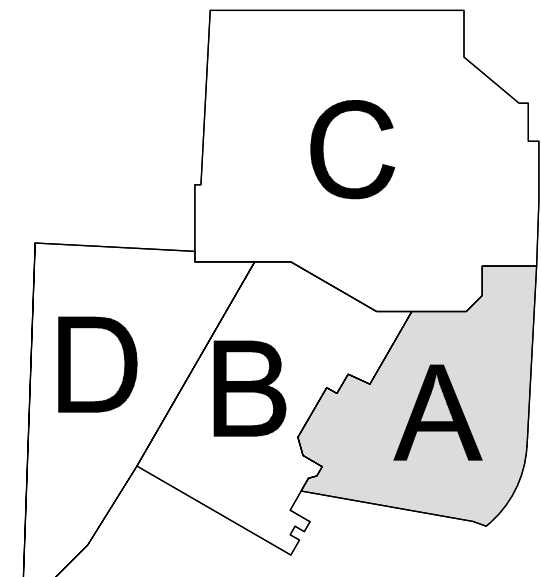
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KEY PLAN



Project Name GONDOLA PLAZA

SSRC | BASE AREA
IMPROVEMENTS

Project Number

003.7835.000

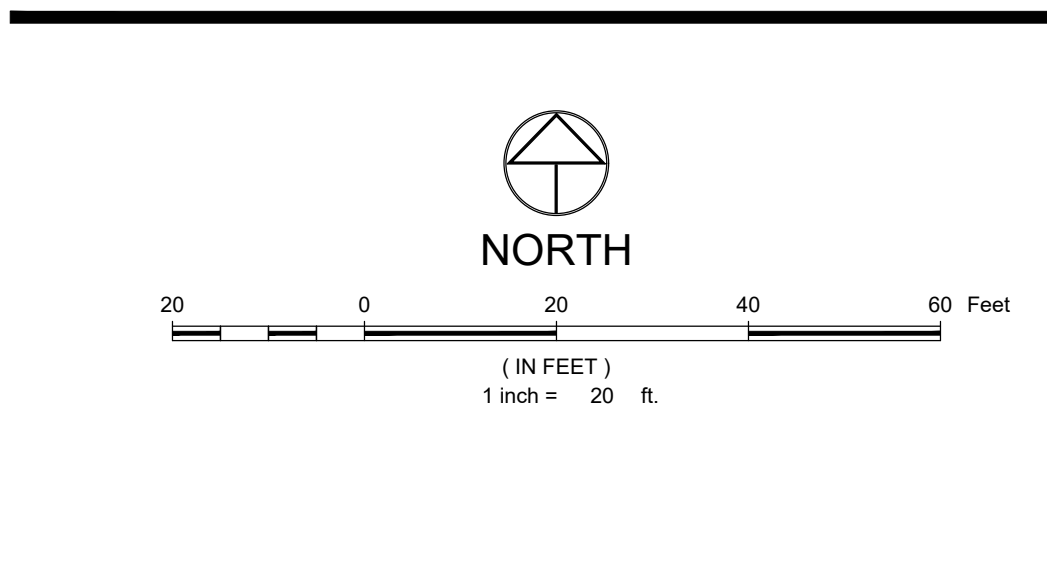
Description

HORIZONTAL CONTROL PLAN

Scale

SEE GRAPHICAL SCALE

1A-C.090



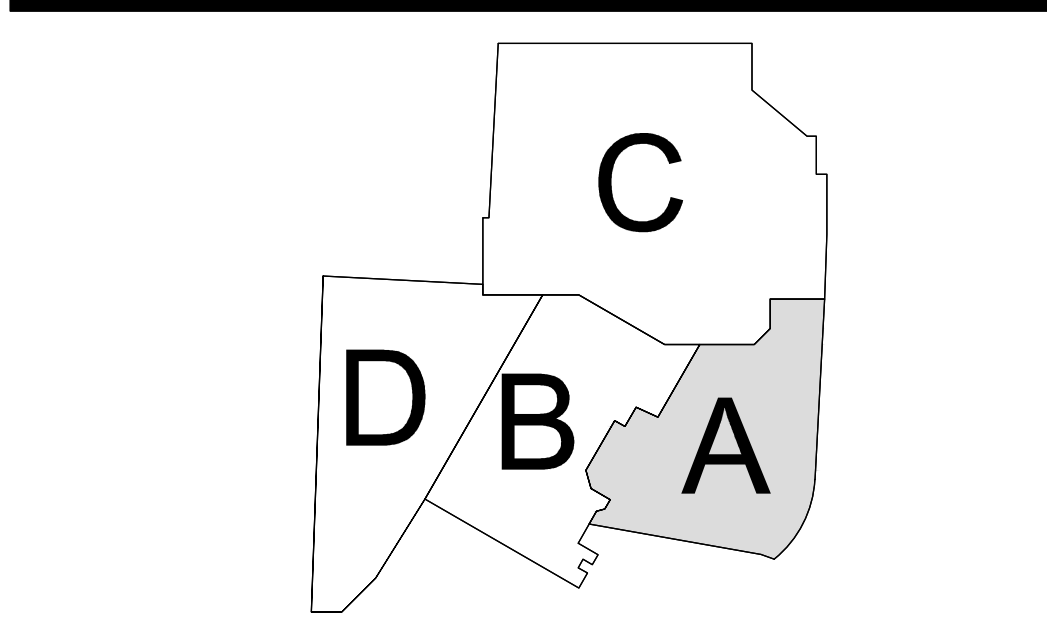
LEGEND

PROPOSED 8" SANITARY SEWER W/ MH & C.O.	8" SS
EXISTING 8" SANITARY SEWER W/ MH & C.O.	8" SS
EX. SANITARY SEWER TO BE REMOVED OR ABANDONED	XS DEMO
PROPOSED 8" WATER PIPE	8" W
PROPOSED GV, FH & CS	8" W
EXISTING WATER	8" W
EX. WATER TO BE REMOVED OR ABANDONED	XS DEMO
EXISTING GV & FH	8" W
PROPOSED STORMCULVERT, INLET, MH, END SECTION WITH RIPRAP	ST
EXIST 8" STORMCULVERT, INLET, MH, END SECTION WITH RIPRAP	ST
EX. STORMCULVERT TO BE REMOVED OR ABANDONED	XS DEMO
PROPOSED CONDUIT/DUCT BANK	C

NOTES

- THE SIZE, TYPE AND LOCATION OF ALL KNOWN UNDERGROUND UTILITIES ARE APPROXIMATE WHEN SHOWN ON THESE DRAWINGS. IT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR TO VERIFY THE EXISTENCE OF ALL UNDERGROUND UTILITIES IN THE AREA OF THE WORK. BEFORE COMMENCING NEW CONSTRUCTION, THE CONTRACTOR SHALL BE RESPONSIBLE FOR LOCATING ALL UNDERGROUND UTILITIES AND SHALL BE RESPONSIBLE FOR ALL UNKNOWN UNDERGROUND UTILITIES.
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- MAINTAIN 12" HORIZONTAL AND 18" VERTICAL MINIMUM SEPARATION BETWEEN ALL SANITARY SEWER MAINS, WATER MAINS & SERVICES.
- MANHOLES LOCATED OUTSIDE OF PAVEMENTS SHALL PROTRUDE 1" ABOVE EXISTING GRADE TO REDUCE INFILTRATION. GRADE SURFACE TO DRAIN AROUND/AWAY FROM MANHOLE RIMS.
- ALL MANHOLES LOCATED IN PAVEMENTS SHALL HAVE RIM ELEVATIONS ADJUSTED TO 1/4" BELOW FINISHED GRADE. IF NECESSARY, CONE SECTIONS SHALL BE ROTATED TO PREVENT LIDS BEING LOCATED WITHIN VEHICLE OR BICYCLE WHEEL PATHS.
- SEWER SERVICE SHALL HAVE A MINIMUM OF 4-FT OF COVER.
- WATER SERVICE SHALL HAVE A MINIMUM OF 7-FT OF COVER.
- ALL WATER PIPE SHALL BE INSTALLED WITH A #10 SOLID COPPER WIRE COATED WITH 45 MIL POLYETHYLENE FOR LOCATING PURPOSES. "GLENN TEST STATIONS" BY VALVCO, INC TRACER WIRE TEST STATIONS SHALL BE INSTALLED ADJACENT TO ALL FIRE HYDRANTS. ADDITIONAL LOCATIONS MAY BE REQUIRED.
- ALL MATERIALS USED FOR BACKFILL SHALL BE FREE FROM REFUSE ORGANIC MATERIAL, COBBLES, BOULDERS, LARGE ROCKS OR STONES OR FROZEN SOILS GREATER THAN 6-INCHES IN DIAMETER.
- ALL TRENCHES SHALL BE COMPACTED TO 95% AS DETERMINED BY ASTM D698 (STANDARD PROCTOR) OR AS SPECIFIED BY GEOTECHNICAL ENGINEER.
- BEDDING AND SHADING MATERIALS SHALL ONLY BE 3/4-INCH WASHED OR SCREENED ROCK, 3/4-INCH MINUS, SQUEEGEE OR REJECT SAND, OR CLASS 6 AGGREGATE BASE COURSE IS NOT ALLOWED.

KEY PLAN



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Seal / Signature

Project Name GONDOLA PLAZA

SSRC | BASE AREA IMPROVEMENTS

Project Number

003.7835.000

Description

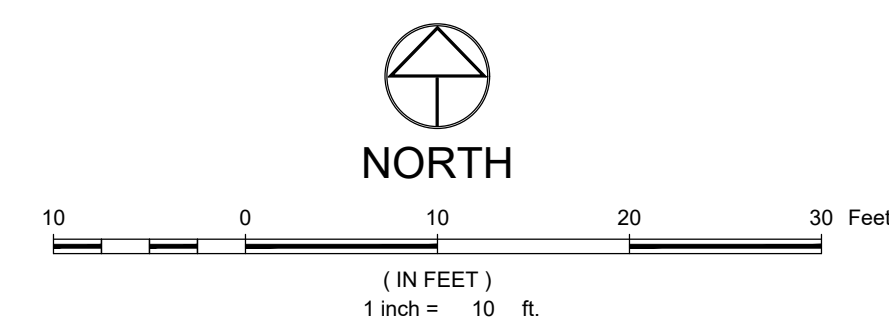
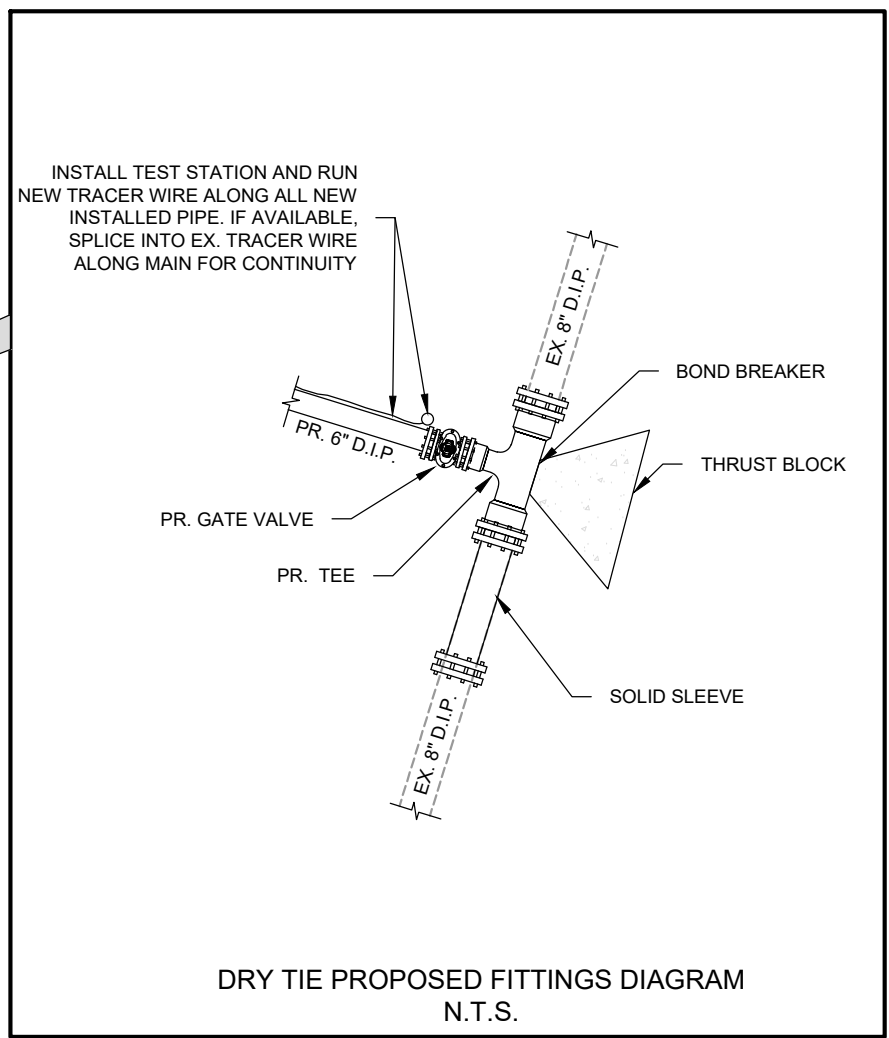
OVERALL UTILITY PLAN

Scale

SEE GRAPHICAL SCALE

1A-C.200

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PROPOSED 8" SANITARY SEWER W/ MH & C.O.

EXISTING 16" SANITARY SEWER W/ MH & C.O.

EX. SANITARY SEWER TO BE REMOVED OR ABANDONED

PROPOSED 8" WATER PIPE

PROPOSED GV, FH & CS

EXISTING WATER

EX. WATER TO BE REMOVED OR ABANDONED

EXISTING GV & FH

PROPOSED STORMCULVERT, INLET, MH, END SECTION WITH RIPRAP

EXIST 16" STORMCULVERT, INLET, MH, END SECTION WITH RIPRAP

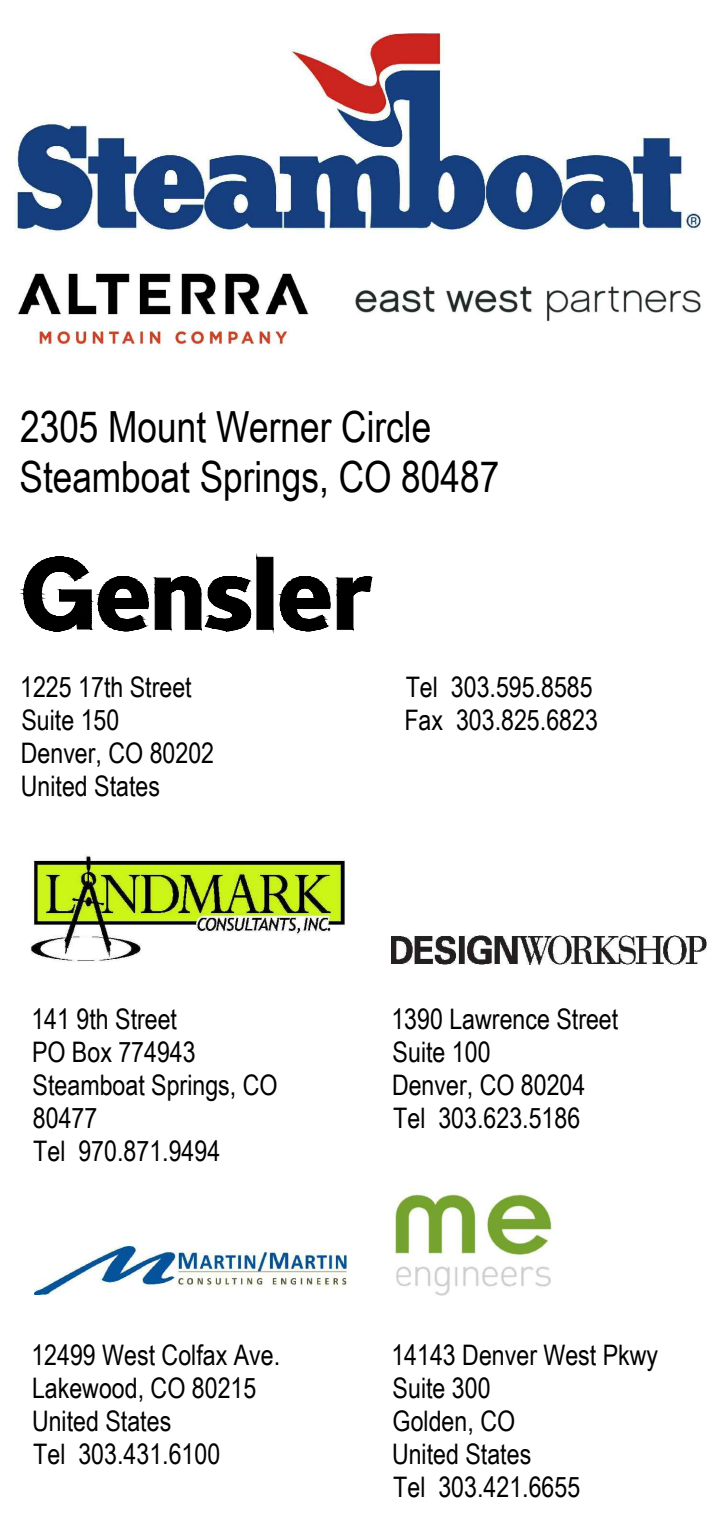
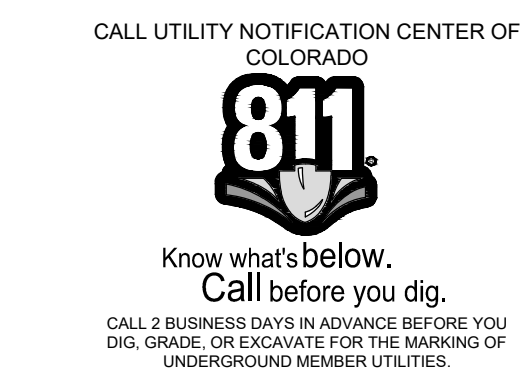
EX. STORMCULVERT TO BE REMOVED OR ABANDONED

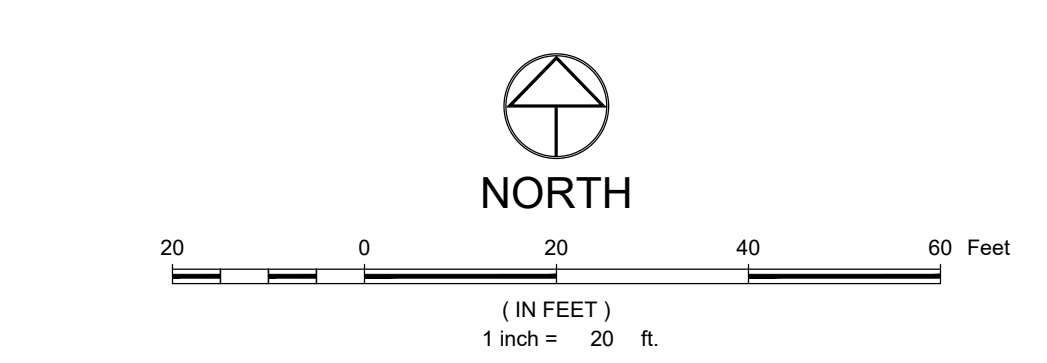
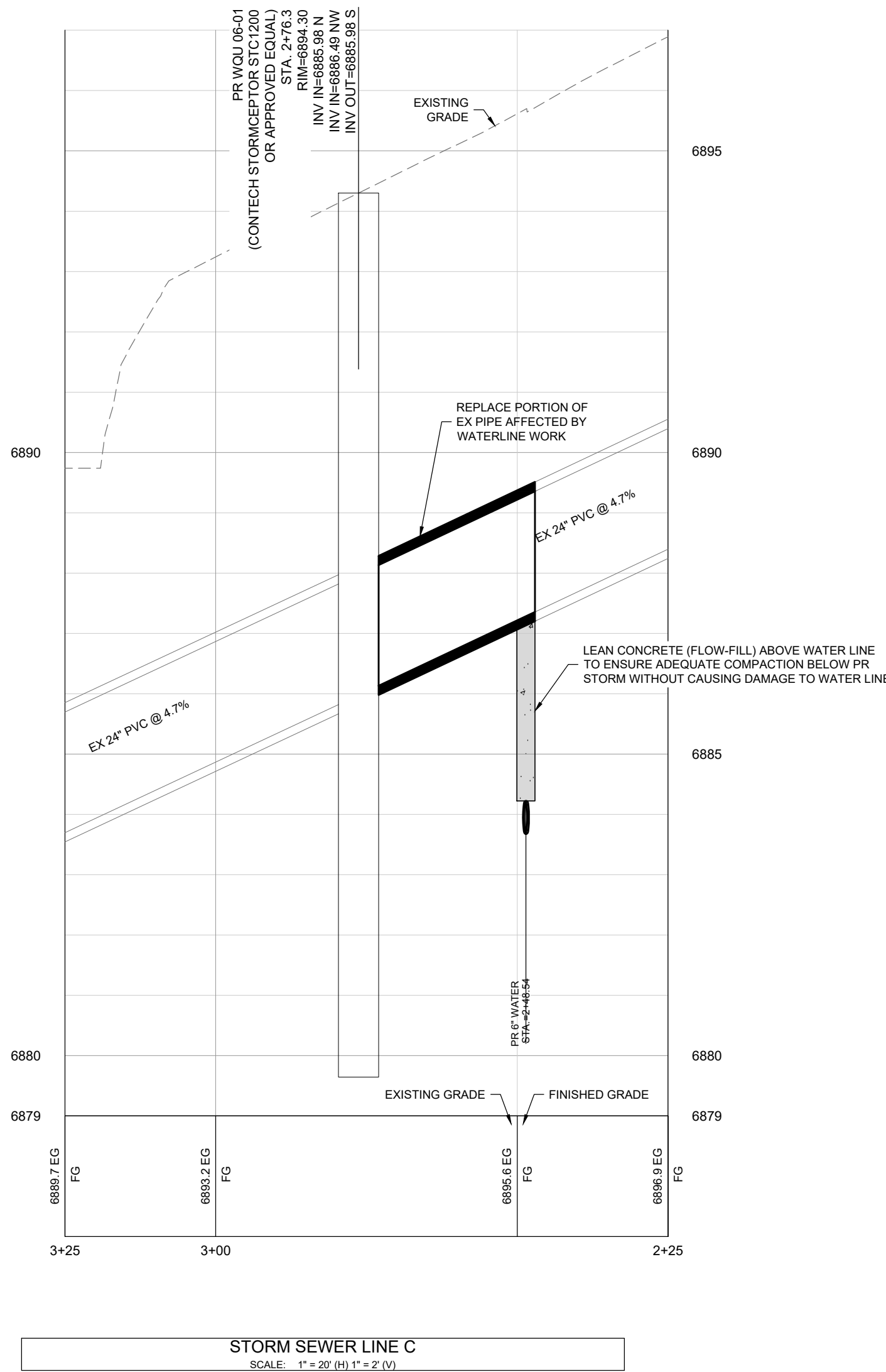
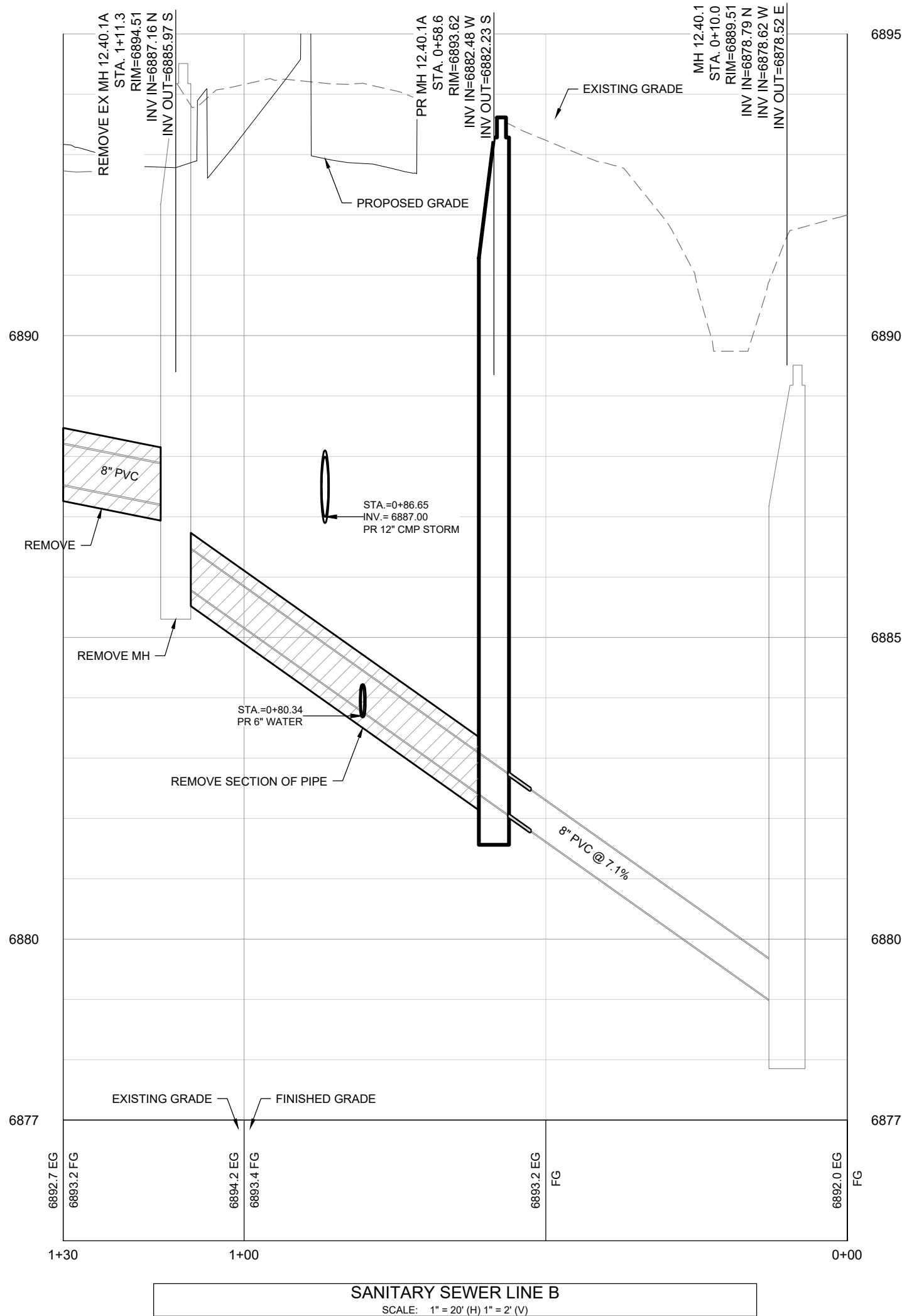
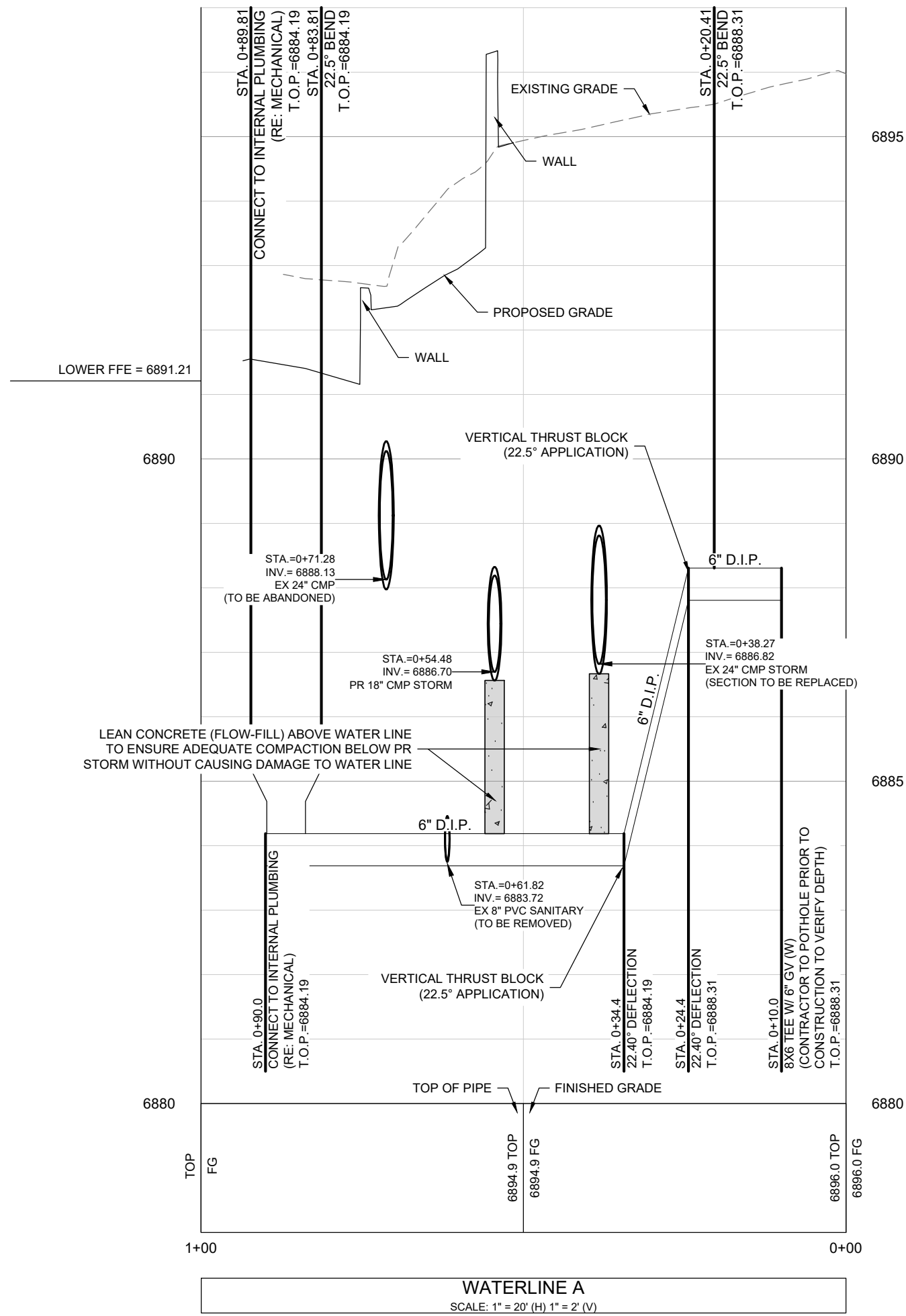
PROPOSED CONDUIT/UTILITY RACK

Legend:

- PROPOSED 8" SANITARY SEWER
- EXISTING 16" SANITARY SEWER
- PROPOSED 8" WATER PIPE
- EXISTING WATER
- PROPOSED STORMCULVERT
- EXISTING STORMCULVERT
- PROPOSED CONDUIT/UTILITY RACK

1. THE SIZE, TYPE AND LOCATION OF ALL KNOWN UNDERGROUND UTILITIES ARE APPROXIMATE WHEN SHOWN ON THESE DRAWINGS. IT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR TO VERIFY THE LOCATION OF ALL KNOWN UNDERGROUND UTILITIES IN THE AREA OF THE WORK. BEFORE COMMENCING NEW CONSTRUCTION, THE CONTRACTOR SHALL BE RESPONSIBLE FOR LOCATING ALL UNDERGROUND UTILITIES AND SHALL BE RESPONSIBLE FOR ALL UNKNOWN UNDERGROUND UTILITIES.
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3. ALL SEWER CONSTRUCTION SHALL BE PER MOUNT WERNER WATER STANDARD SPECIFICATIONS, LATEST EDITION.
4. MAINTAIN 10' HORIZONTAL AND 10" VERTICAL MINIMUM SEPARATION BETWEEN ALL SANITARY SEWER MAINS, WATER MAINS & SERVICES.
5. MAINHOLES LOCATED OUTSIDE OF PAVEMENTS SHALL PROTRUDE 1" ABOVE EXISTING GRADE TO REDUCE INFILTRATION. GRADE SURFACE TO DRAIN AROUNDAWAY FROM MAINHOLE RIMS.
6. ALL MAINHOLES LOCATED IN PAVEMENTS SHALL HAVE RIM ELEVATIONS ADJUSTED TO 2" BELOW FINISHED GRADE. IF NECESSARY, ONE SECTION SHALL BE ROTATED TO PREVENT LOS BEING LOCATED WITH VEHICLE OR BICYCLE WHEEL PATHS.
7. SEWER SERVICE SHALL HAVE A MINIMUM OF 4'-0" OF COVER.
8. WATER SERVICE SHALL HAVE A MINIMUM OF 4'-0" OF COVER.
9. ALL WATER PIPE SHALL BE INSTALLED WITH A #10 SOLD COPPER WIRE COATED WITH 4MM POLYETHYLENE FOR LOCATING PURPOSES. "GLENN TEST STATIONS" BY VALICO INCHER WIRELESS, 50' TEST STATIONS SHALL BE INSTALLED ADJACENT TO ALL FIRE HYDRANTS. ADDITIONAL LOCATIONS MAY BE REQUIRED.
10. ALL MATERIALS USED FOR BACKFILL SHALL BE FREE FROM REFUSE ORGANIC MATERIAL, COBBLES, BOULDERS, LARGE ROCKS OR STONES OR FROZEN SOLIDS GREATER THAN 6-INCHES IN DIAMETER.
11. ALL TRENCHES SHALL BE COMPACTED TO 95% AS DETERMINED BY ASTM D698 (STANDARD PROCTOR) OR AS SPECIFIED BY GEOLOGICAL ENGINEER.
12. BEDDING AND SHADING MATERIALS SHALL ONLY BE 3/4-INCH WASH OR SCREENED SLOTT, 3/4-INCH MINIMUM, 1/2-INCH TEST STATIONS SHALL BE INSTALLED. GRADE COURSE IS NOT ALLOWED.





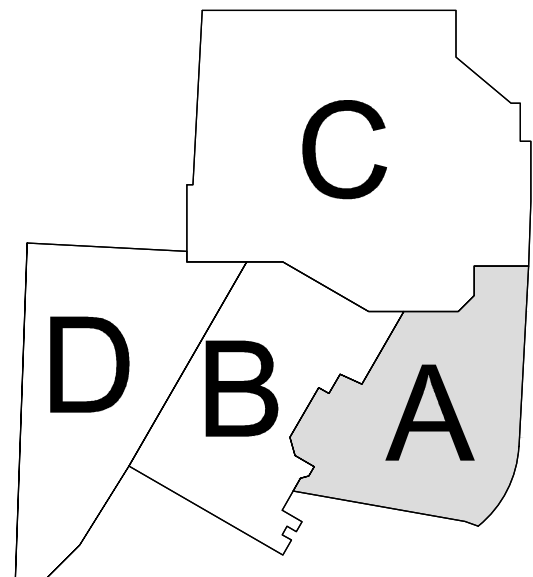
LEGEND

PROPOSED 8" SANITARY SEWER W/ MH & C.O.	8" SS
EXISTING 8" SANITARY SEWER W/ MH & C.O.	8" SS
EX. SANITARY SEWER TO BE REMOVED OR ABANDONED	XS DEMO
PROPOSED 8" WATER PIPE	8" W
PROPOSED GV, FH & CS	8" W
EXISTING WATER	8" XW
EX. WATER TO BE REMOVED OR ABANDONED	XW DEMO
EXISTING GV & FH	
PROPOSED STORMCULVERT, INLET, MH, END SECTION WITH RIPRAP	ST
EXIST 8" STORMCULVERT, INLET, MH, END SECTION WITH RIPRAP	8" ST
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PROPOSED CONDUIT/DUCT BANK	

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Project Name GONDOLA PLAZA

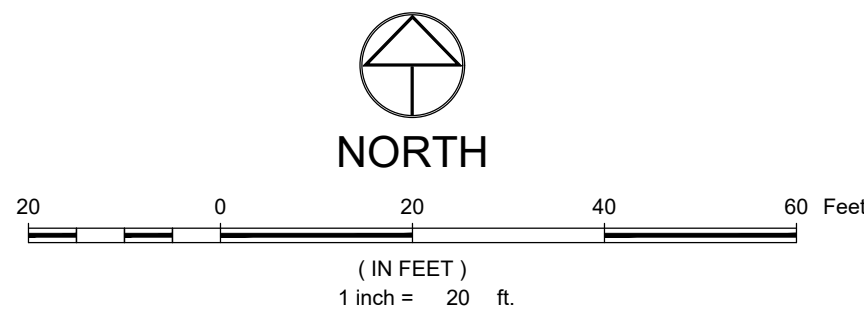
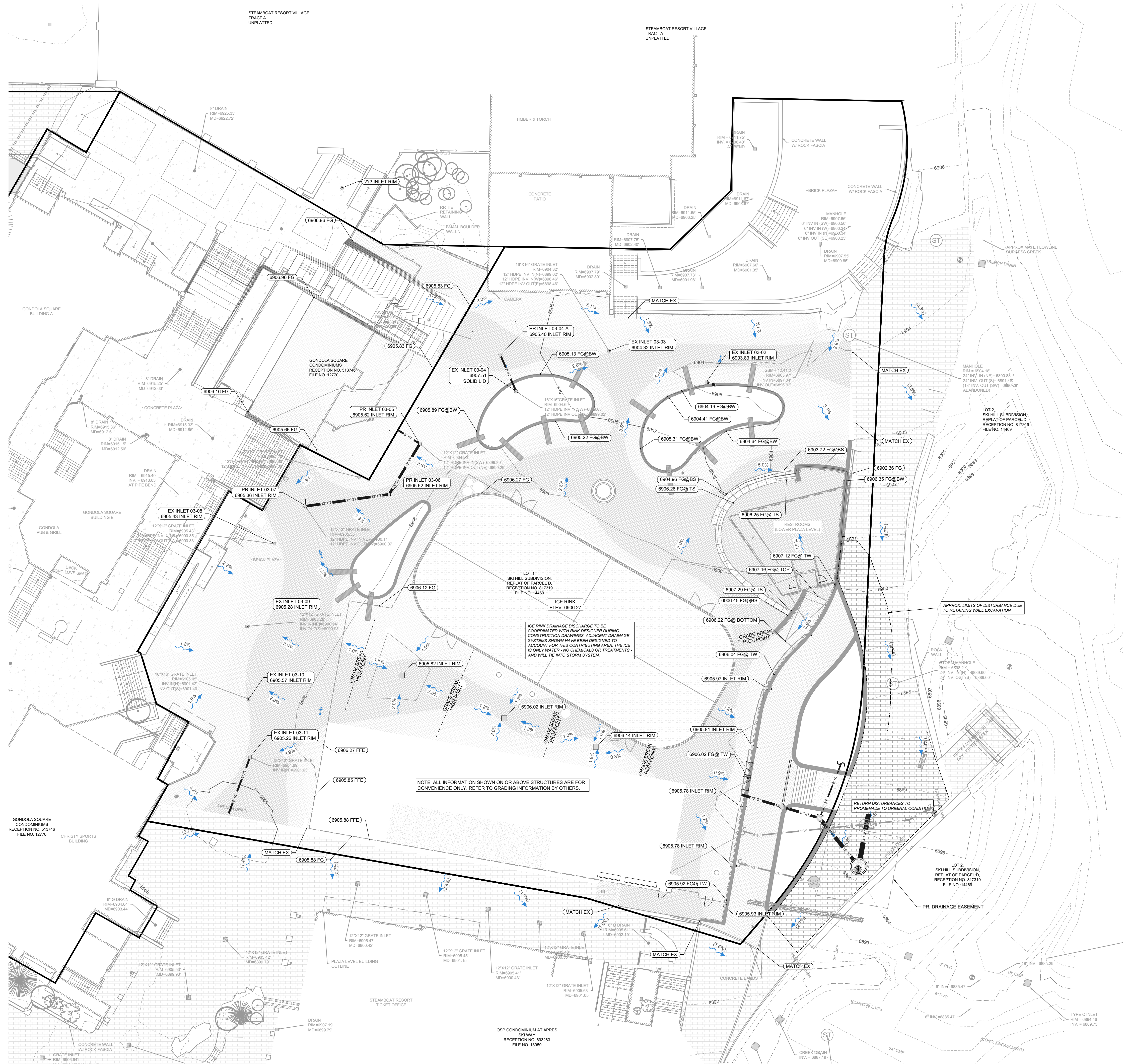
SSRC | BASE AREA IMPROVEMENTS

Project Number 003.7835.000

Description UTILITY PLAN AND PROFILES

Scale SEE GRAPHICAL SCALE

1A-C.202



LEGEND

EXISTING STORM SEWER	12" 45°
PROPOSED STORM SEWER	12" 45°
PROPOSED STORM INLET (CURB & AREA)	12" 45°
PROPOSED MAJOR CONTOUR	6805
PROPOSED MINOR CONTOUR	6805
EXISTING MAJOR CONTOUR	6805
EXISTING MINOR CONTOUR	6805
PROPOSED SWALE	6805
PROPOSED CURB & GUTTER	6805
PROPERTY BOUNDARY	6805
PROPOSED LOT LINE	6805
EXISTING RIGHT OF WAY	6805
FLOOD HAZARD LIMITS	6805
PROPOSED SPOT ELEVATION	68.10
EXISTING SPOT ELEVATION	00.10 X
PROPOSED OVERLAND FLOW DIRECTION W/ SLOPE	2.0%
EXISTING OVERLAND FLOW DIRECTION W/ SLOPE	2.0%
PROPOSED CHANNELIZED FLOW DIRECTION W/ SLOPE	2.0%
EXISTING CHANNELIZED FLOW DIRECTION	2.0%

NOTES

- THE SIZE, TYPE AND LOCATION OF ALL KNOWN UNDERGROUND UTILITIES ARE APPROXIMATE WHEN SHOWN ON THESE DRAWINGS. IT SHALL BE THE RESPONSIBILITY OF THE DEVELOPER TO VERIFY THE EXISTENCE OF ALL UNDERGROUND UTILITIES IN THE AREA OF THE WORK. BEFORE COMMENCING NEW CONSTRUCTION, THE CONTRACTOR SHALL BE RESPONSIBLE FOR LOCATING ALL UNDERGROUND UTILITIES AND SHALL BE RESPONSIBLE FOR ALL UNKNOWN UNDERGROUND UTILITIES.
- ALL PROJECT DATA IS ON VERTICAL DATUM: NAVD 88. SEE NOTES SHEET FOR BENCHMARK REFERENCES.
- ELEVATIONS FOR IMPROVEMENTS THAT ARE CONTROLLED BY ADJACENT EXISTING FACILITIES (SUCH AS PROPOSED OUTTERS ALONG EXISTING ASPHALT) MAY REQUIRE ADJUSTMENT BASED ON ACTUAL CONDITIONS. COORDINATE WITH ENGINEER TO ENSURE A CONSISTENT SECTION WITH SMOOTH TRANSITIONS WHERE NECESSARY.
- SEE SOILS REPORT FOR PAVEMENT, SUBGRADE AND MATERIAL PREPARATION, DESIGN AND RECOMMENDATIONS.
- ALL CURB SPOTS SHOWN ARE FLOWLINE ELEVATIONS, UNLESS NOTED OTHERWISE. ALL OTHER SPOTS ARE FINISHED GRADE ELEVATIONS.

Steamboat
ALTRERRA east west partners
MOUNTAIN COMPANY

2305 Mount Werner Circle
Steamboat Springs, CO 80487

Gensler

1225 17th Street
Suite 150
Denver, CO 80202
United States

1225 17th Street
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Denver, CO 80202
United States

1390 Lawrence Street
Suite 100
Denver, CO 80204
Tel 303.623.5186

14143 Denver West Pkwy
Suite 300
Golden, CO
United States
Tel 303.421.6655

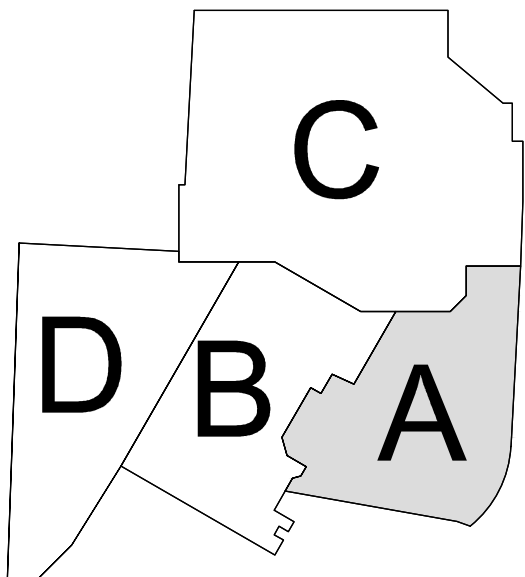
Seal / Signature

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Seal / Signature

CALL UTILITY NOTIFICATION CENTER OF COLORADO
811
Know what's below.
Call before you dig.
CALL 2 BUSINESS DAYS IN ADVANCE BEFORE YOU DIG. GRADE OR EXCAVATE FOR THE MARKING OF UNDERGROUND MEMBER UTILITIES.

KEY PLAN



Project Name GONDOLA PLAZA

SSRC | BASE AREA IMPROVEMENTS

Project Number 003.7835.000

Description Overall Grading Plan

Scale SEE GRAPHICAL SCALE

1A-C.300

300 HILL SUBDIVISION
 PLAT OF PARCEL D
 RECEPTION NO. 17378
 FILE NO. 14463

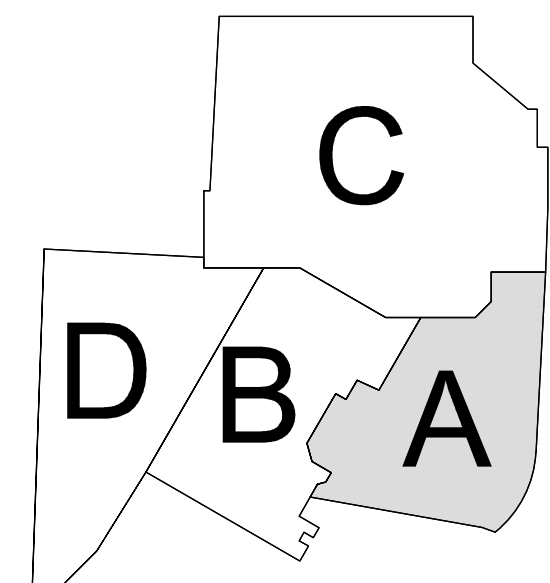
ICE RINK
 ELEV=6906.27

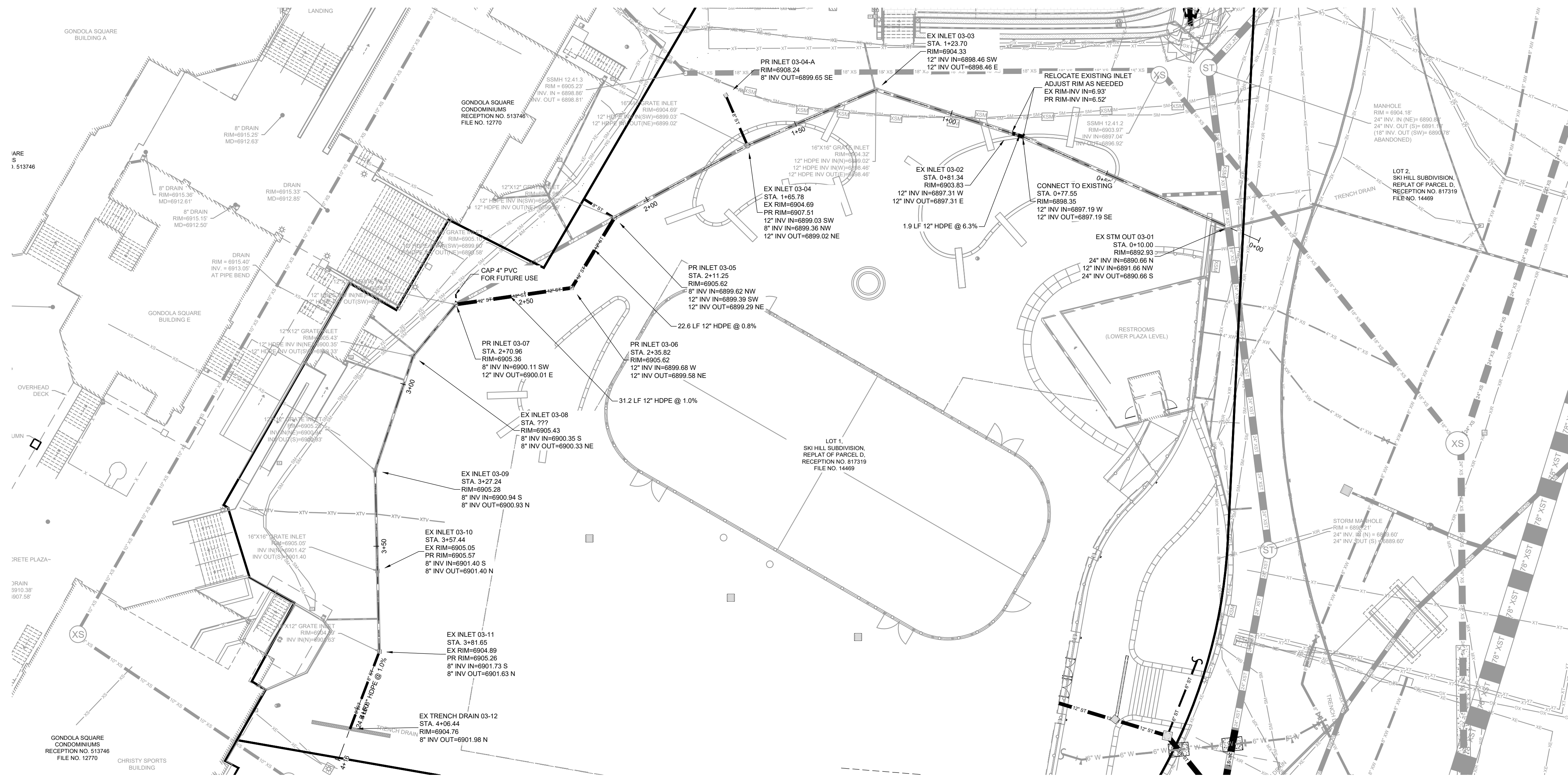
ICE RINK DRAINAGE DISCHARGE TO BE
 COORDINATED WITH RINK DISCHARGE DURING
 CONSTRUCTION. DRAINAGE ADJACENT DRAINAGE
 SYSTEMS SHOWN HAVE BEEN DESIGNED TO
 ACCOUNT FOR THE CONTRIBUTING AREA. THE ICE
 IS ONLY WATER - NO CHEMICALS OR TREATMENTS -
 AND WILL GO INTO STORM SYSTEM.

CONDOMINIUM AT APRES
 RECEPTION NO. 16665
 FILE NO. 13669

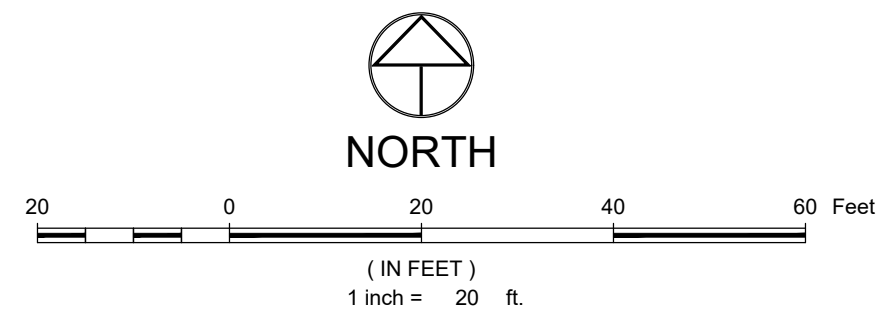
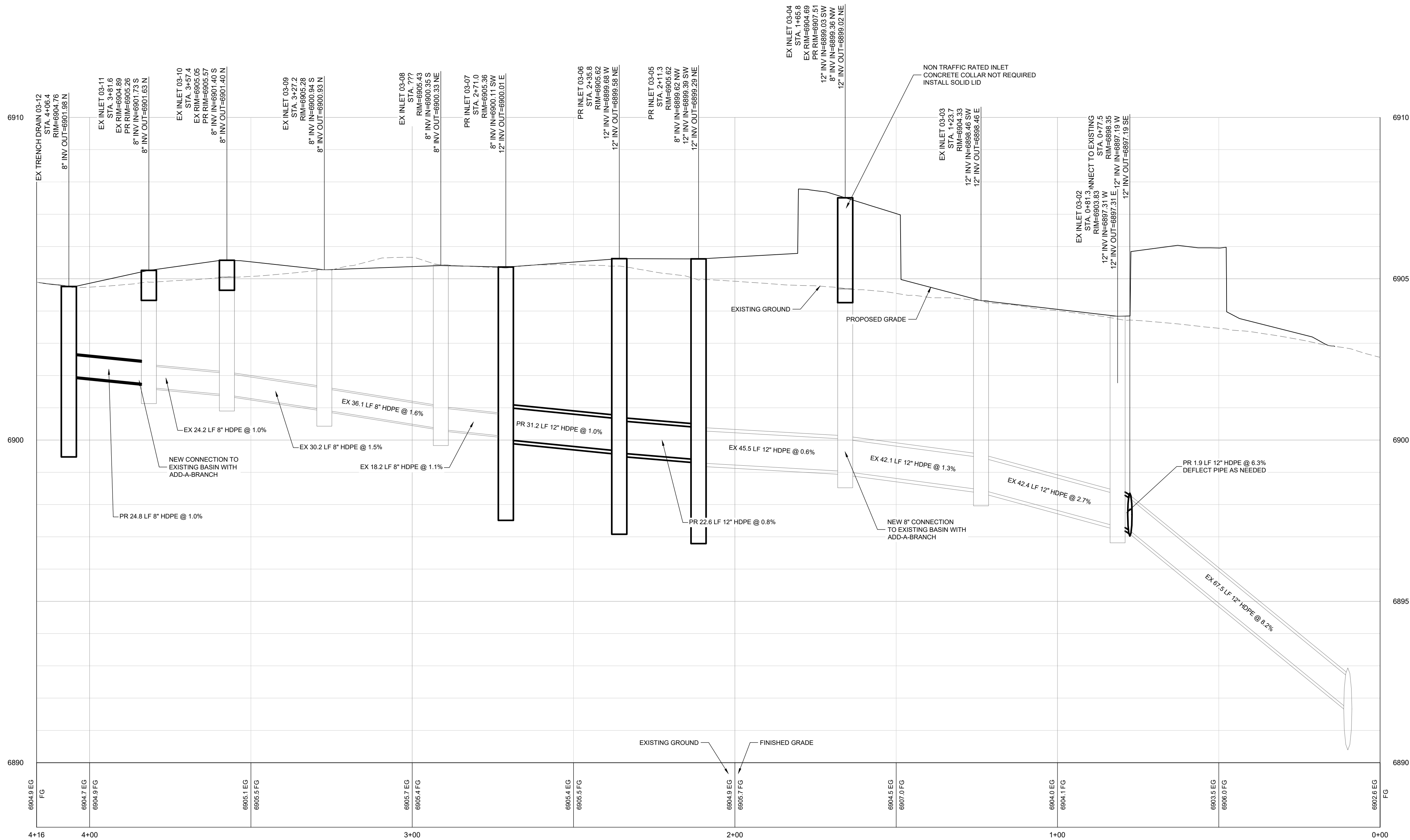
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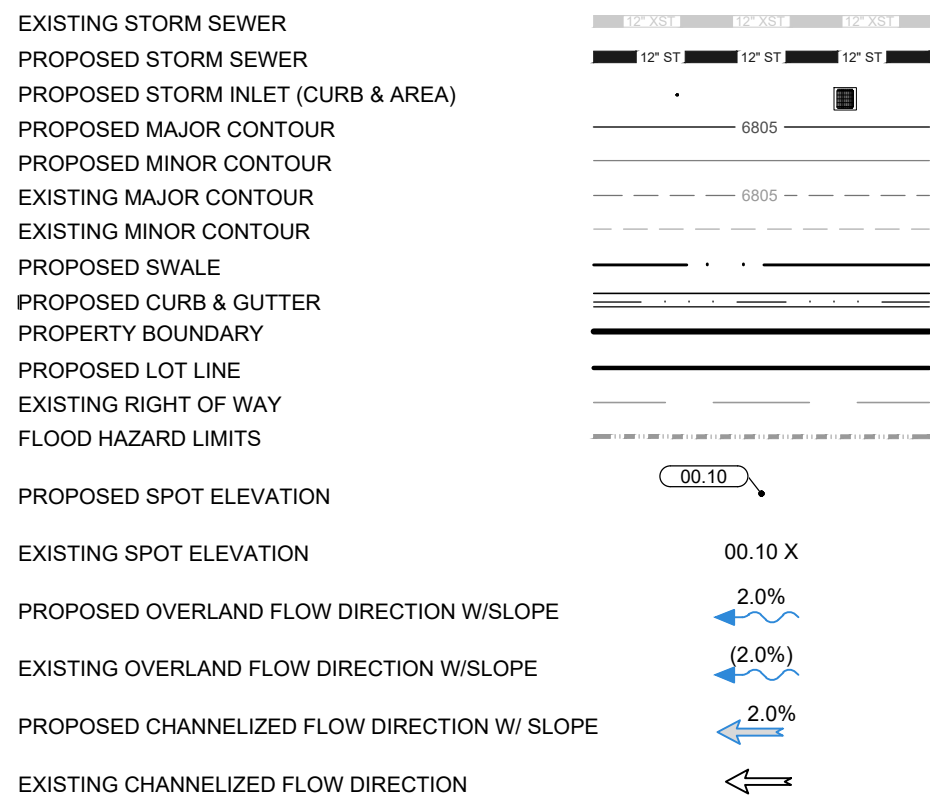




STORM SEWER PLAN & PROFILE
SCALE: 1" = 20' (H) 1" = 2' (V)



LEGEND



NOTES

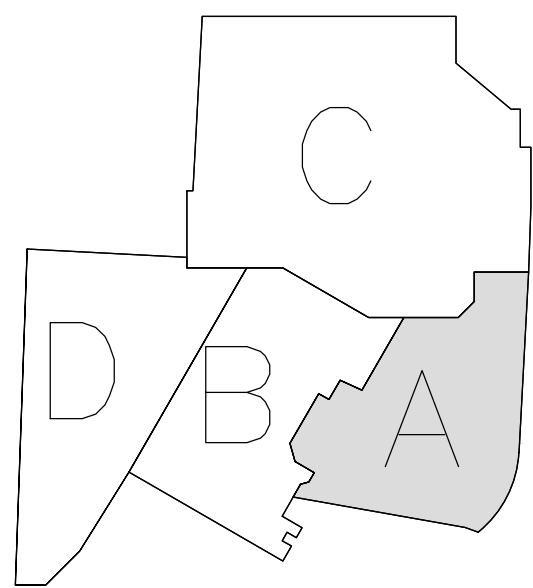
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4. SEE SOILS REPORT FOR PAVEMENT, SUBGRADE AND MATERIAL PREPARATION, DESIGN AND RECOMMENDATIONS.
5. ALL CURB SPOTS SHOWN ARE FLOWLINE ELEVATIONS, UNLESS NOTED OTHERWISE. ALL OTHER SPOTS ARE FINISHED GRADE ELEVATIONS.

INLET SCHEDULE			
STRUCTURE	SIZE	MODEL	GRATE
03-05	15"	NYLOPLAST	12"x12" STANDARD*
03-06	15"	NYLOPLAST	12"x12" STANDARD*
03-07	15"	NYLOPLAST	12"x12" STANDARD*

* - REDUCER REQUIRED. SEE DETAIL



KEY PLAN



Gensler

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Tel 303.595.8586
Fax 303.625.6823



141 9th Street
PO Box 774943
Steamboat Springs, CO
80477
Tel 970.871.9494

DESIGNWORKSHOP

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Denver, CO 80204
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12499 West Colfax Ave.
Lakewood, CO 80125
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Tel 303.431.6100



14143 Denver West Pkwy
Suite 300
Golden, CO
United States
Tel 303.421.6655

Date	Description
2021.05.19	BP3: PROMENADE - ISSUE FOR BID AND PERMIT



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Project Name GONDOLA PLAZA

SSRC | BASE AREA IMPROVEMENTS

Project Number

003.7835.000

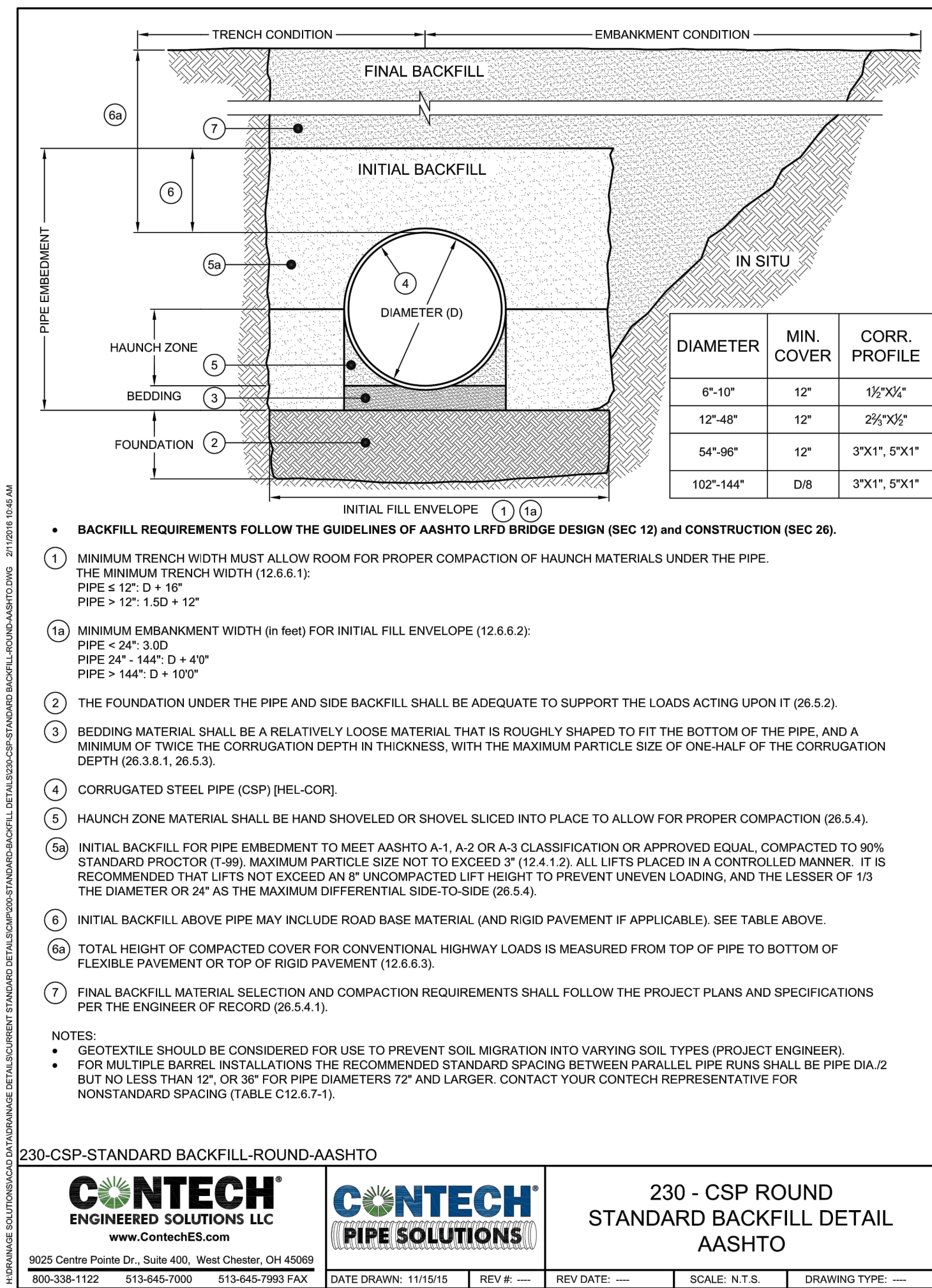
Description

Storm Sewer Plan & Profile

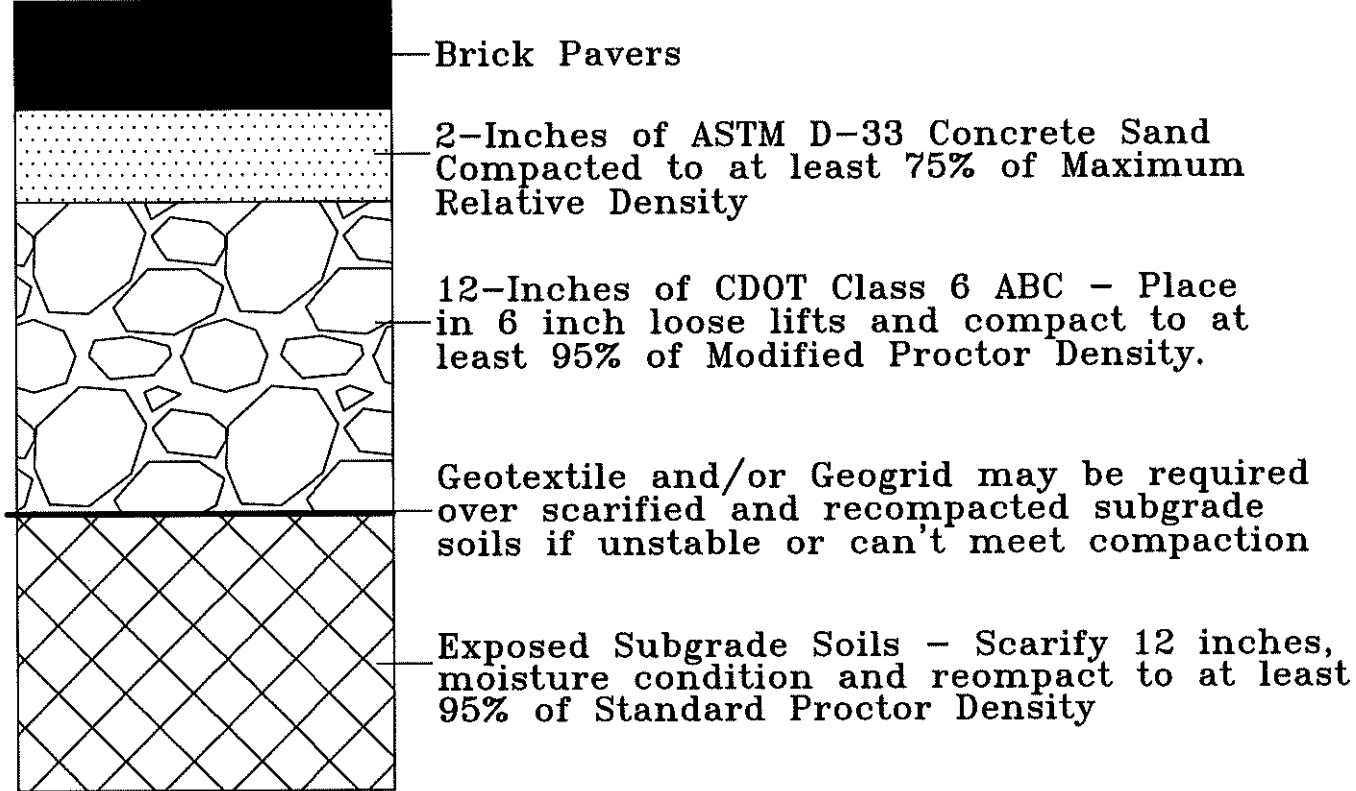
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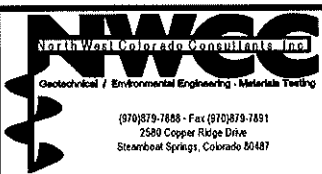
SEE GRAPHICAL SCALE

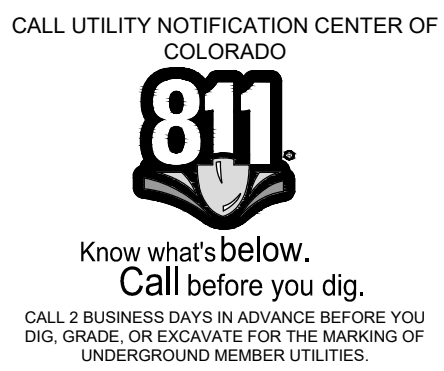
1A-C.310



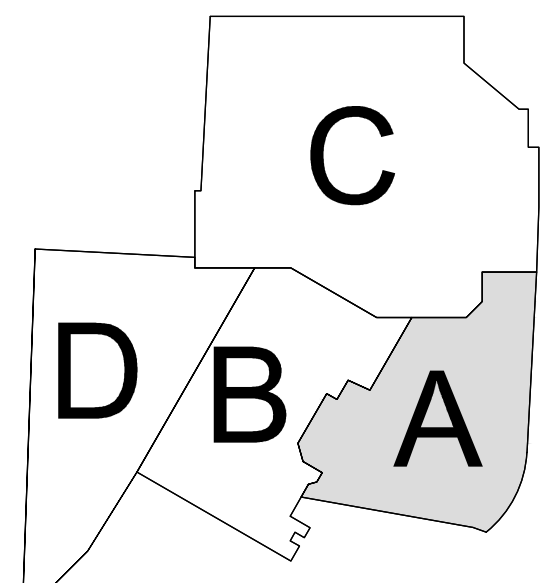
DETAIL EXTRACTED FROM NWCC'S "SUBSOIL AND FOUNDATION INVESTIGATION, STEAMBOAT BASE AREA REDEVELOPMENT, STEAMBOAT SPRINGS, COLORADO" DATED DECEMBER 30, 2020. REFER TO THEIR REPORT FOR ADDITIONAL INFORMATION. SNOWMELT SYSTEM AND PAVEMENT SPECIFICS BY OTHERS.



Title: BRICK PAVEMENT CROSS SECTION		Date: 12/16/2020	
Job Name: Steamboat Base Area Redevelopment	Job No.: 20-12000		
Location: Steamboat Ski Area, Steamboat Springs, Colorado	Figure: #14		



KEY PLAN



Date	Description
2021.05.19	BP3: PROMENADE - ISSUE FOR BID AND PERMIT



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SIGNATURE AND DATE

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Project Name GONDOLA PLAZA

SSRC | BASE AREA
IMPROVEMENTS

Project Number

003.7835.000

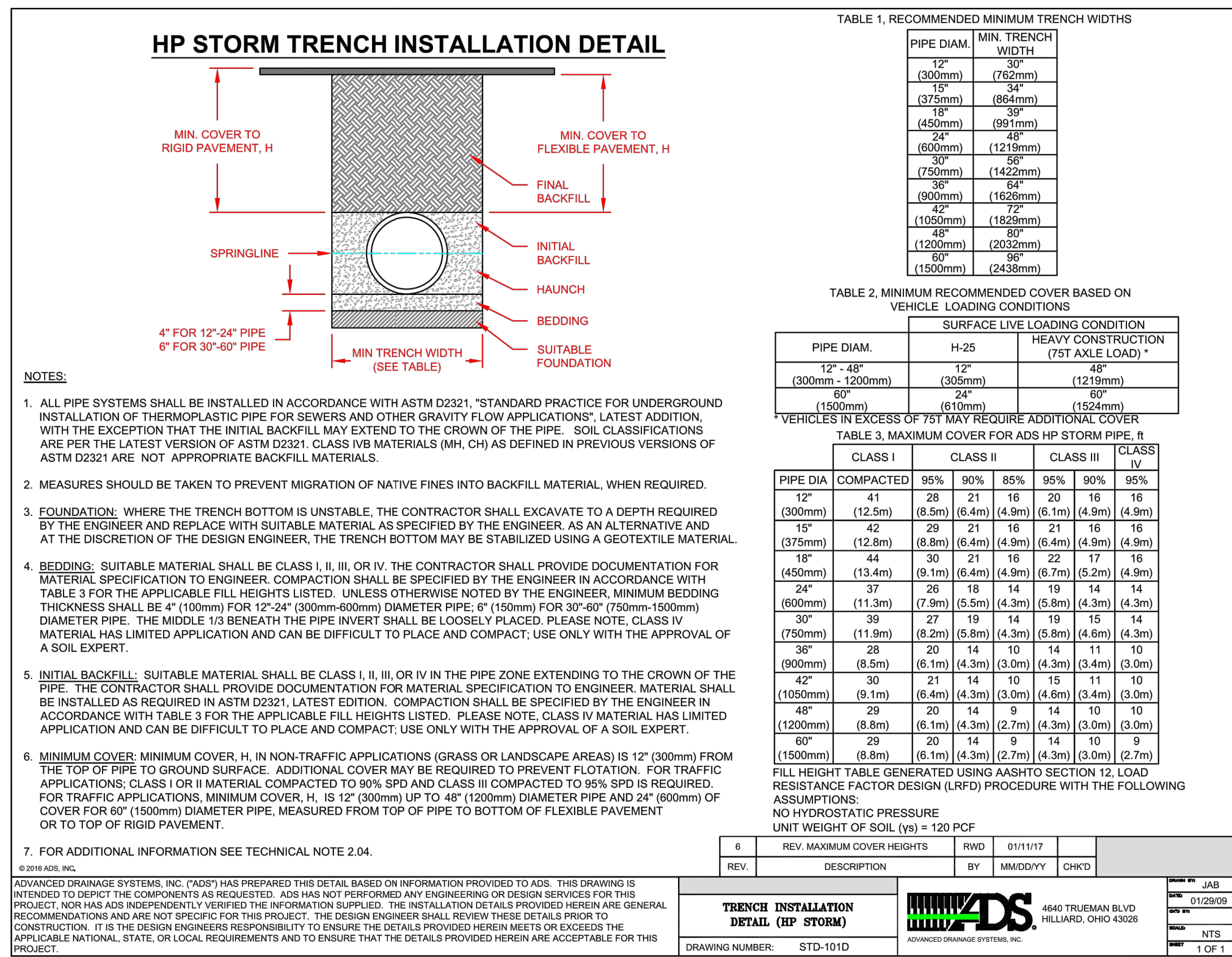
Description

Civil Construction Details

Scale

SEE GRAPHICAL SCALE

1A-C.500



Date	Description
2021.05.19	BP3: PROMENADE - ISSUE FOR BID AND PERMIT



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Seal / Signature

Project Name GONDOLA PLAZA

SSRC | BASE AREA IMPROVEMENTS

Project Number

003.7835.000

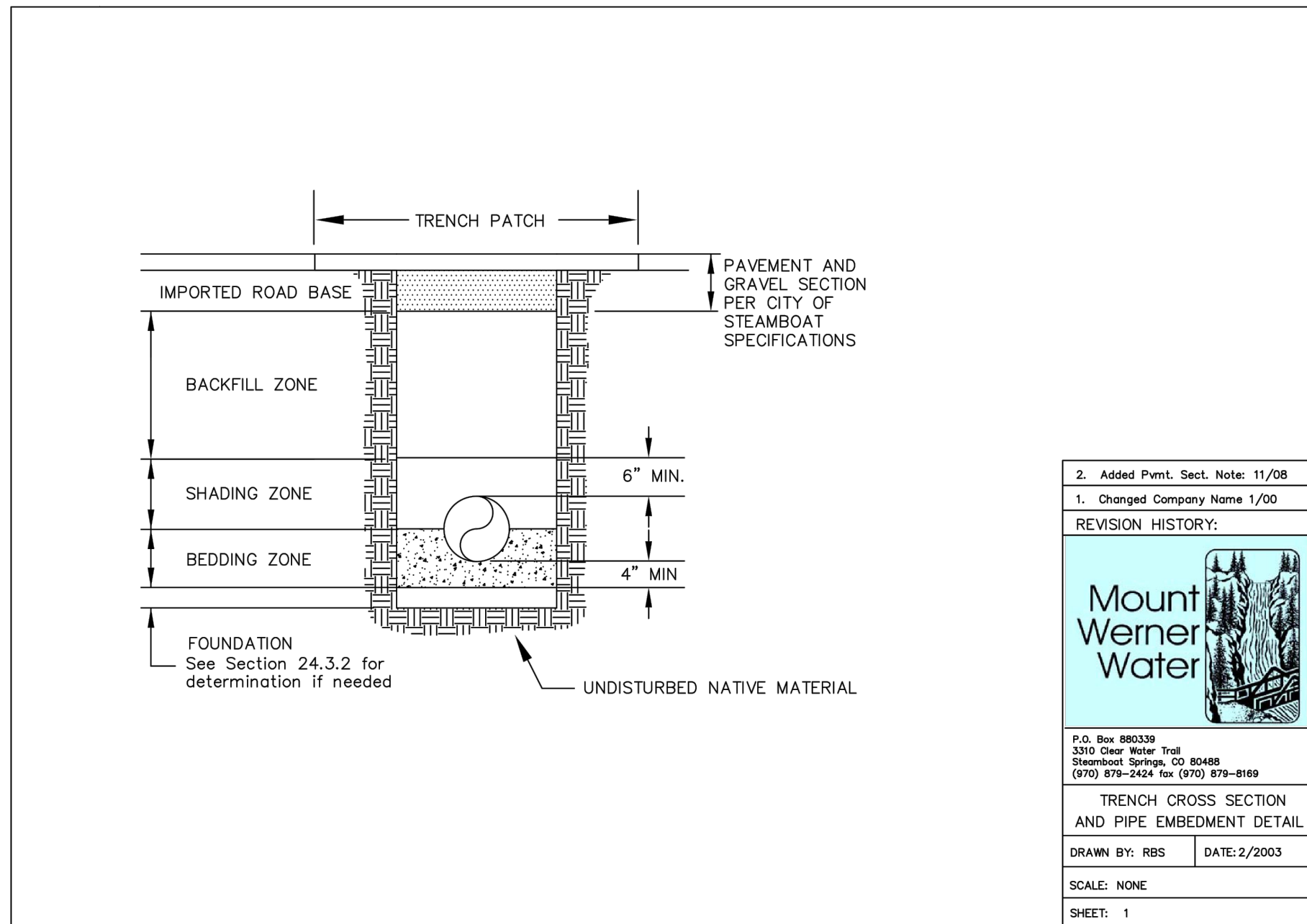
Description

MWW Details

Scale

SEE GRAPHICAL SCALE

1A-C.520



2. Added Permit. Sect. Note: 11/08
1. Changed Company Name 1/00

REVISION HISTORY:

Mount Werner Water

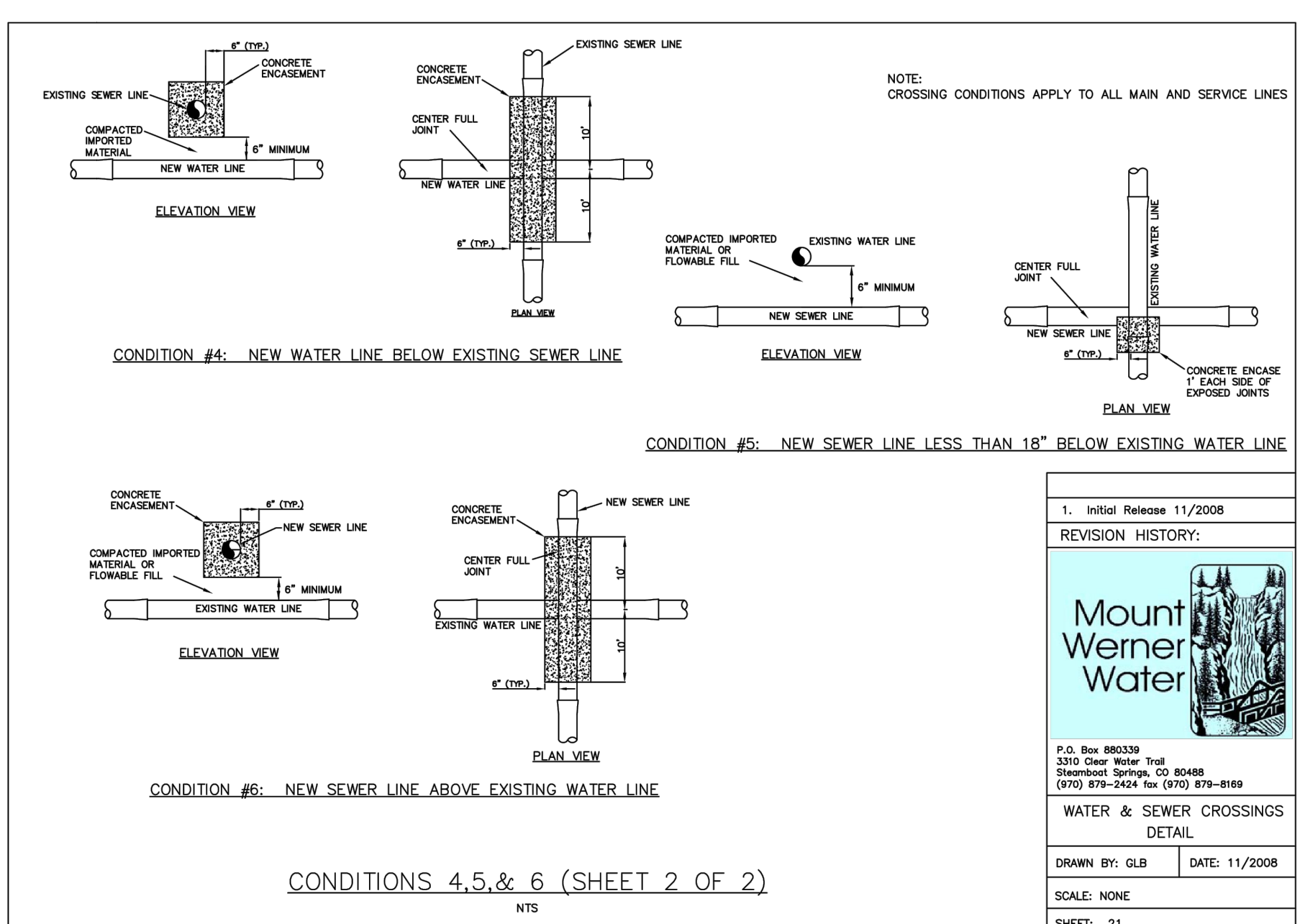
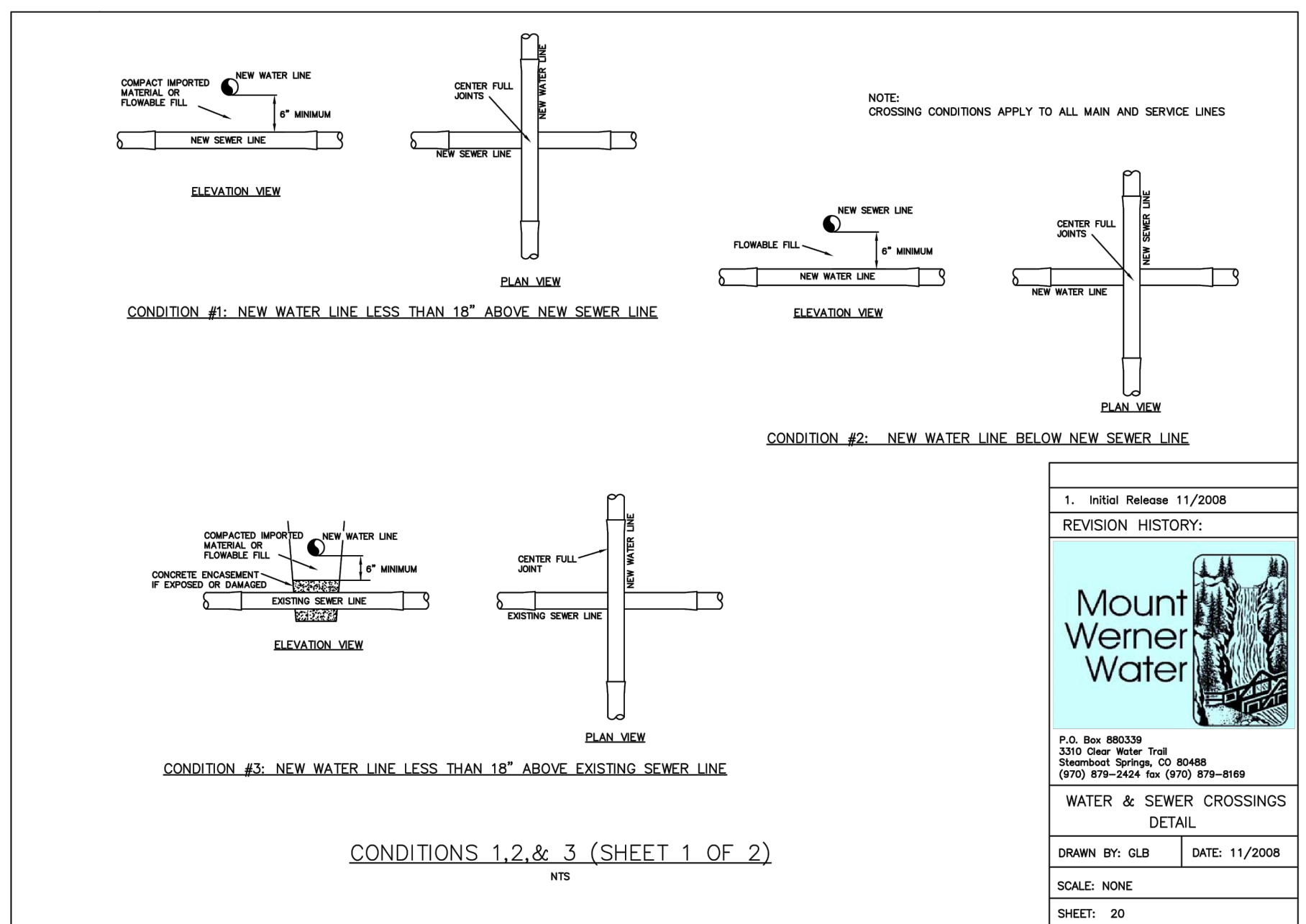
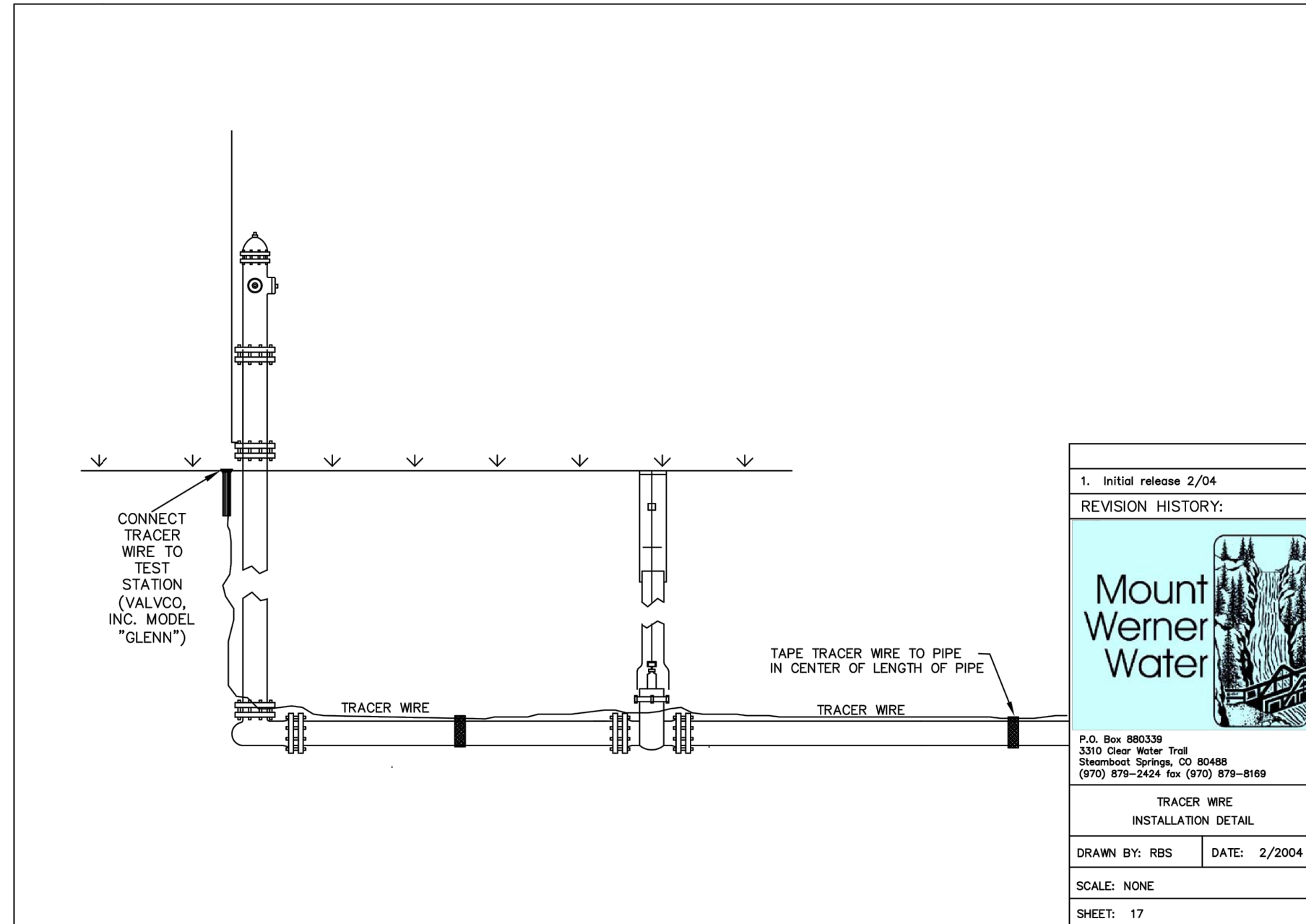
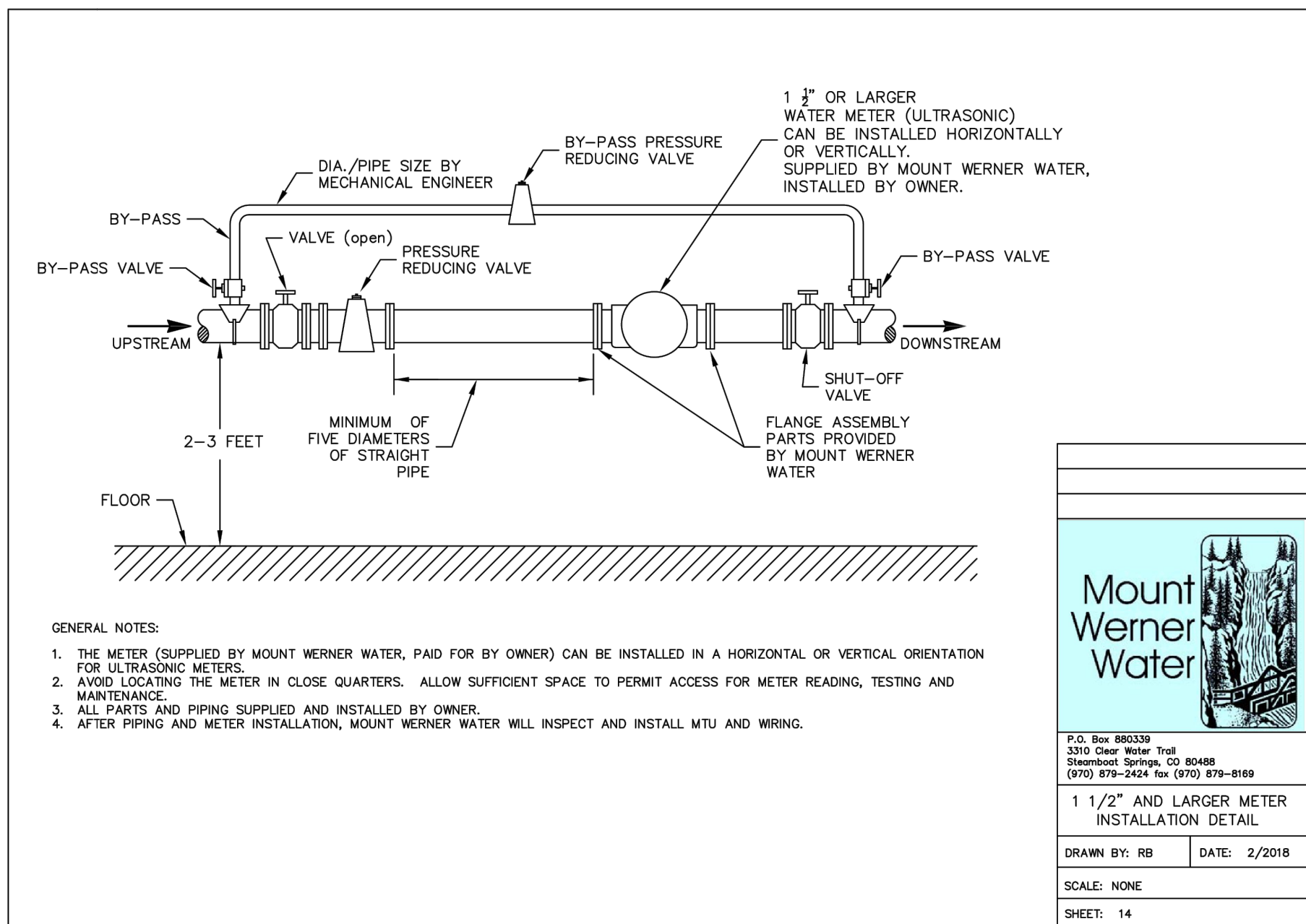
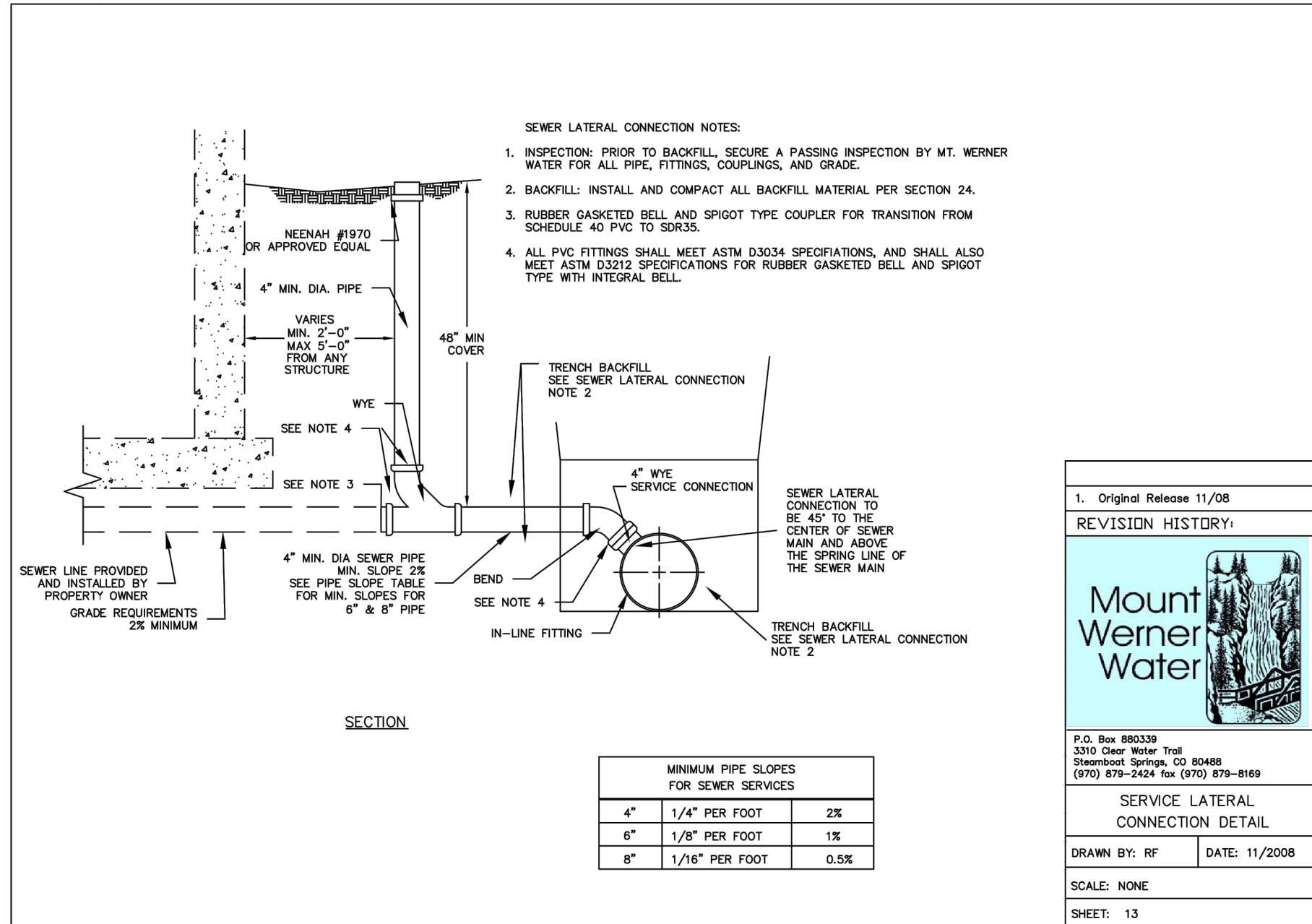
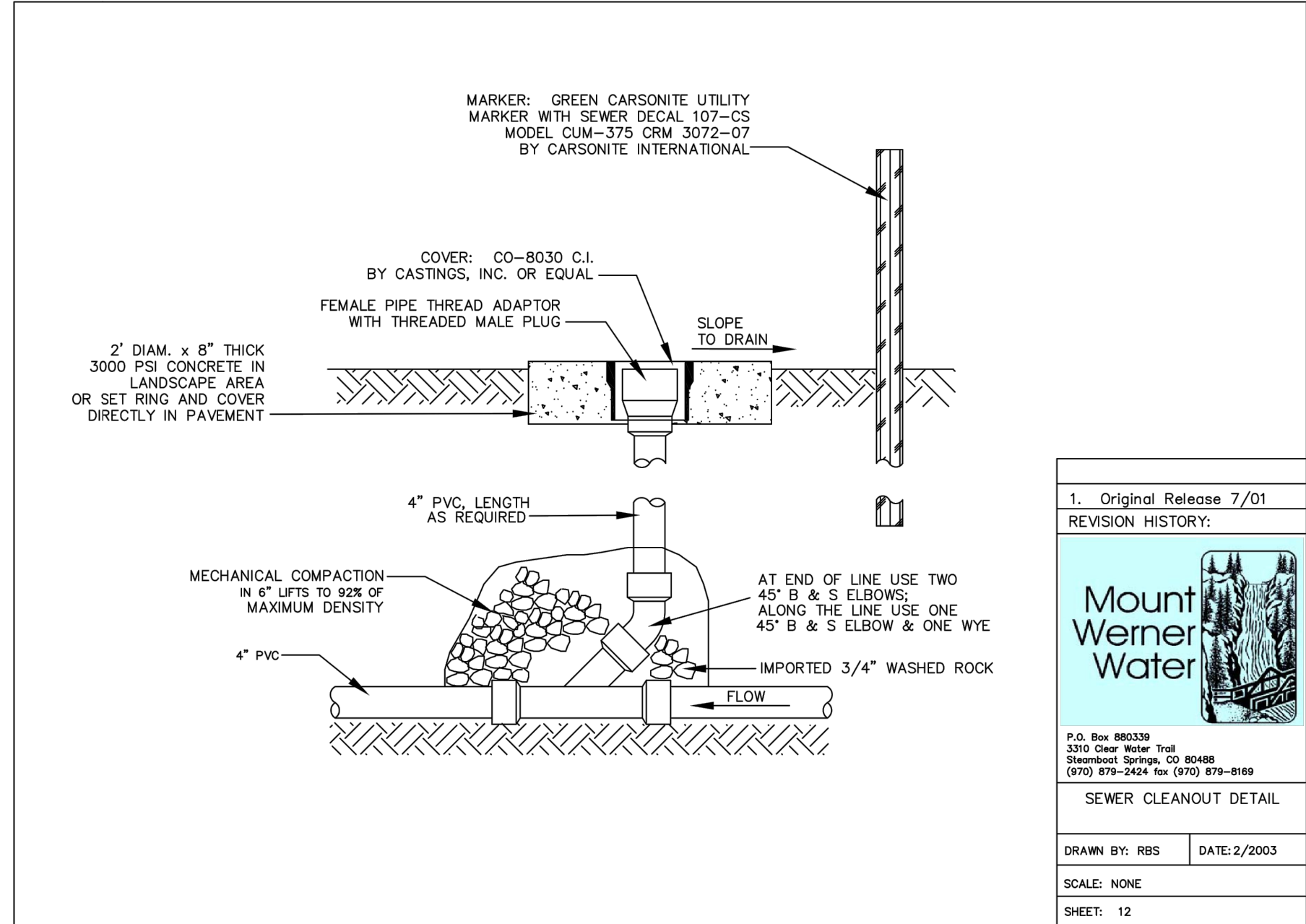
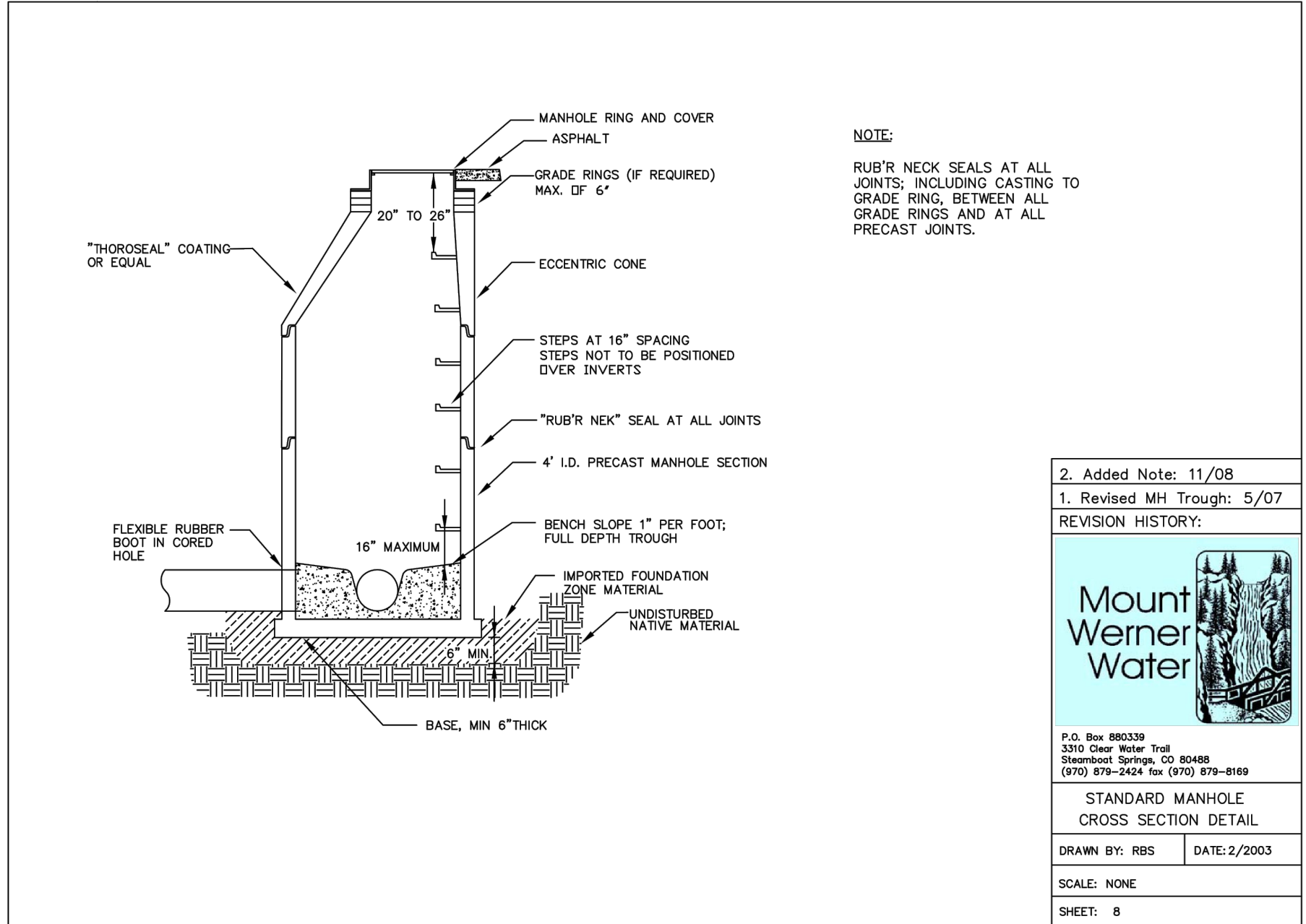
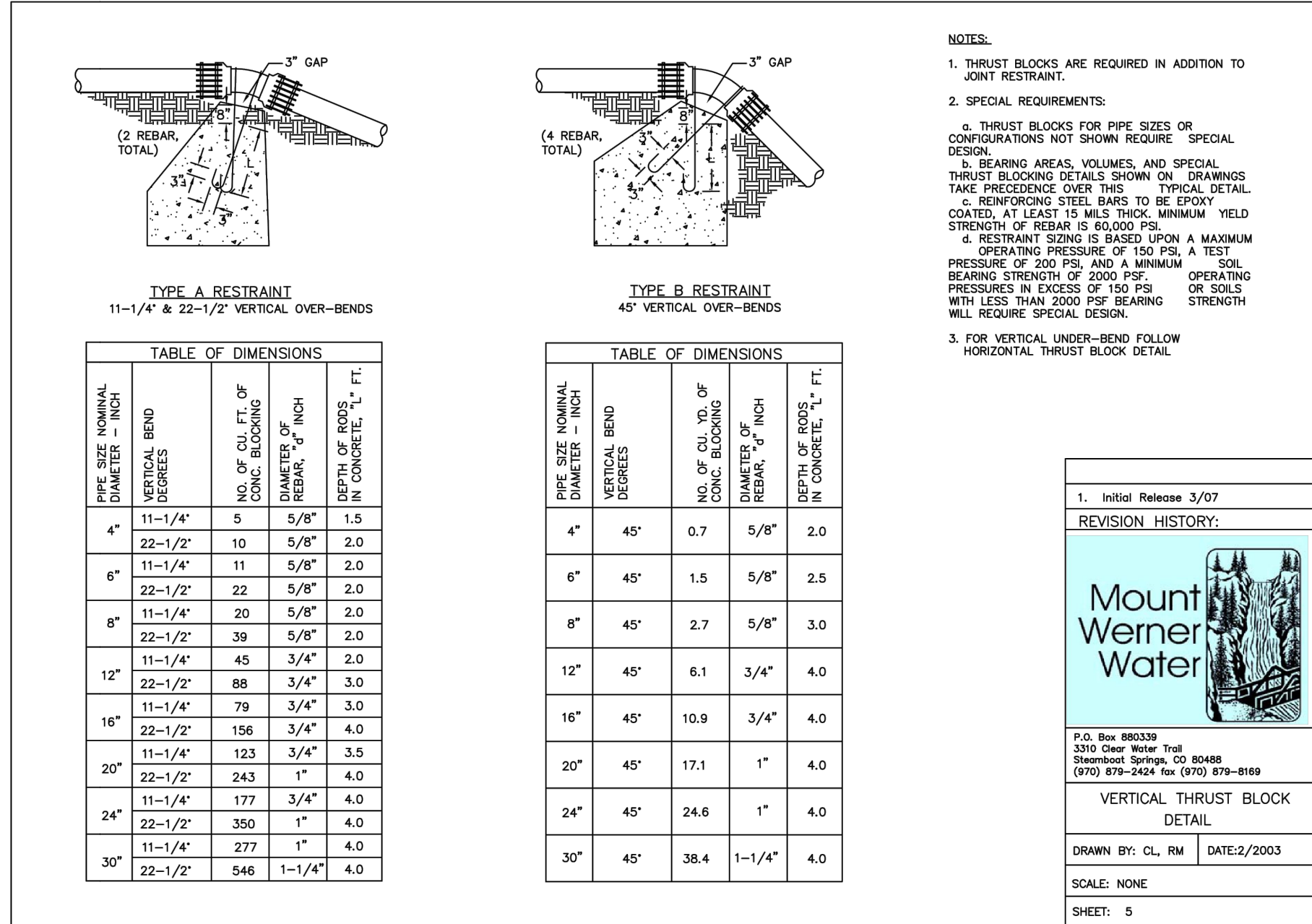
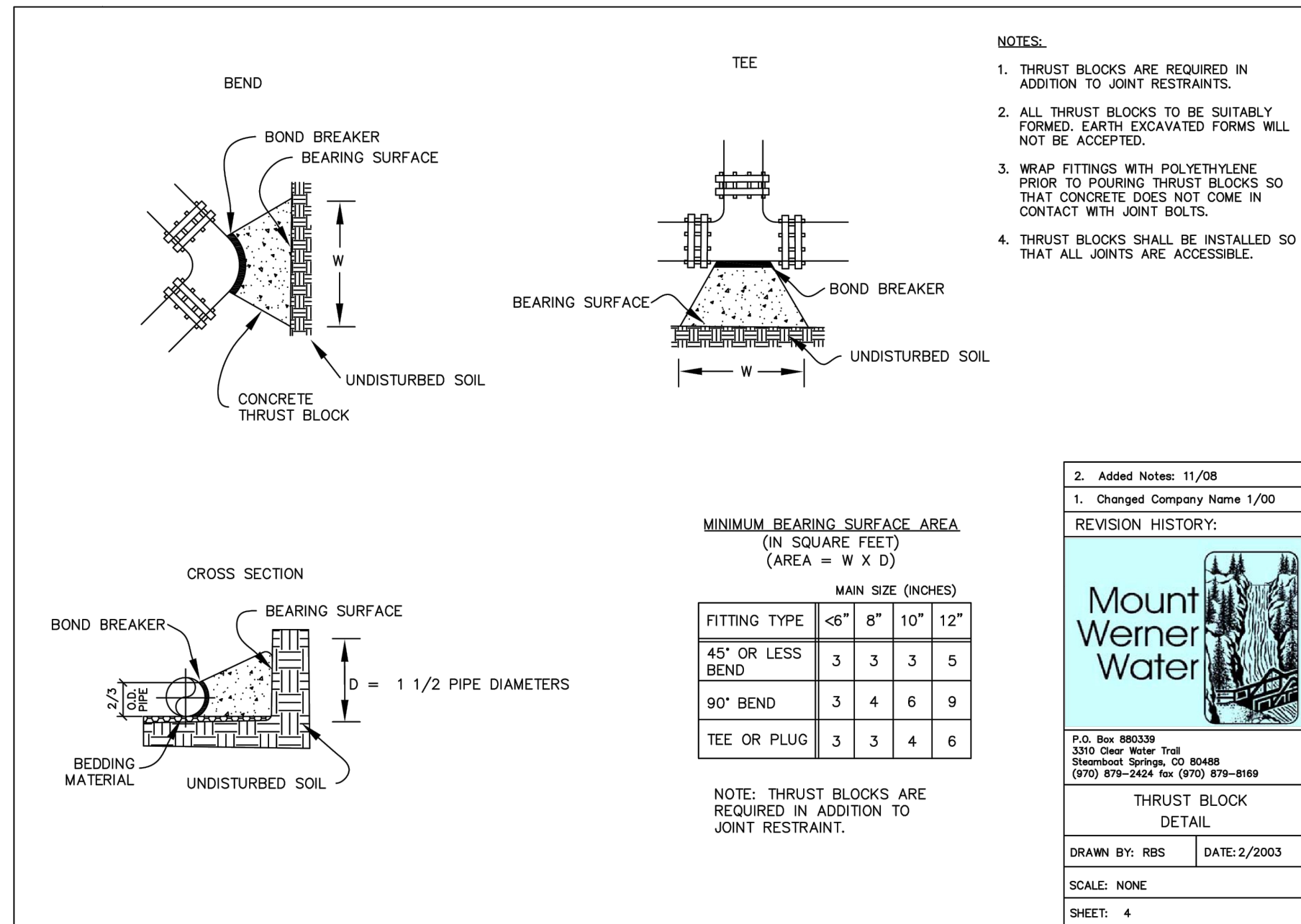
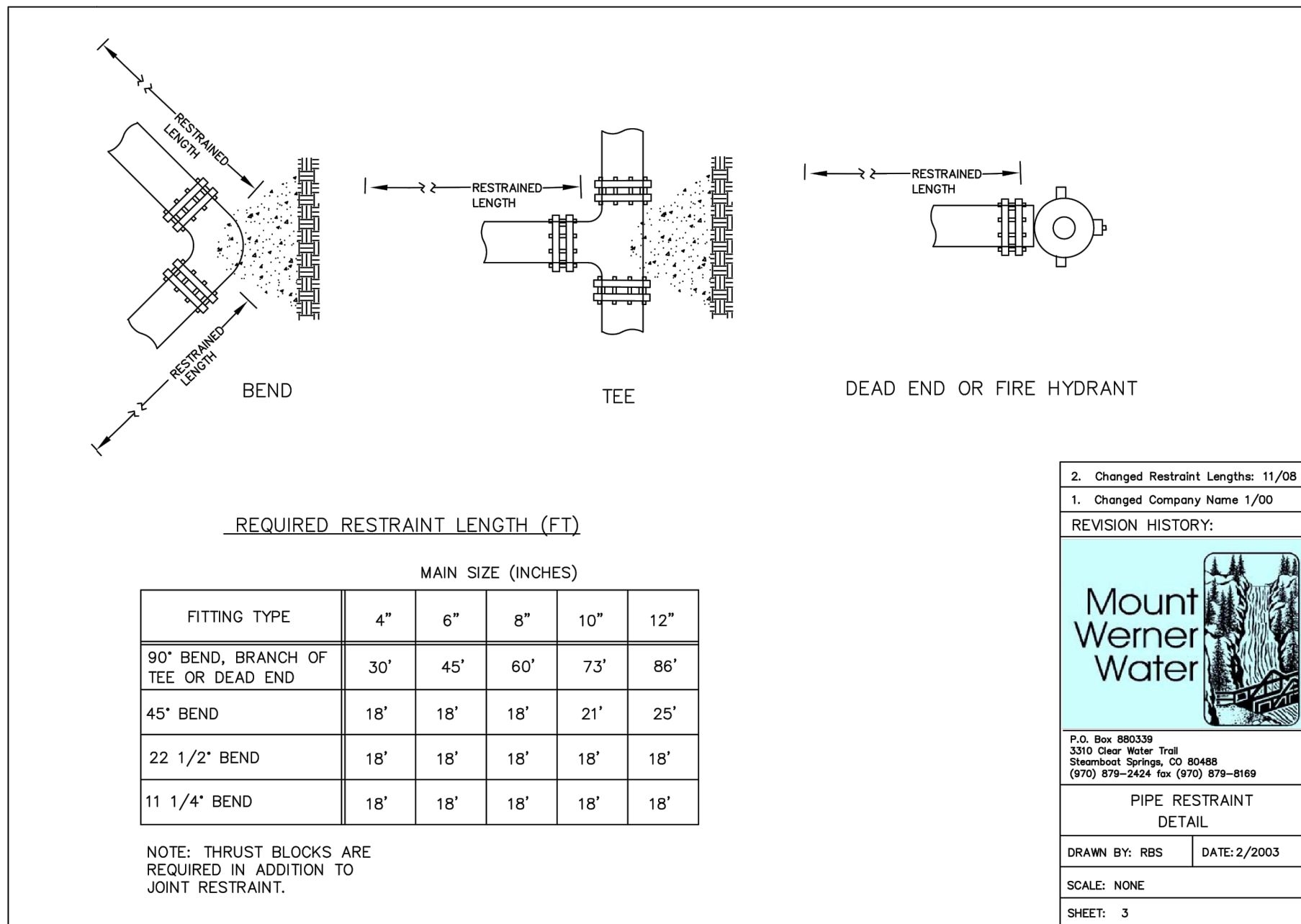
P.O. Box 880338
3500 Deer River Trail
Steamboat Springs, CO 80488
970.871-2424 fax 970.871-8169

TRENCH CROSS SECTION AND PIPE EMBEDMENT DETAIL

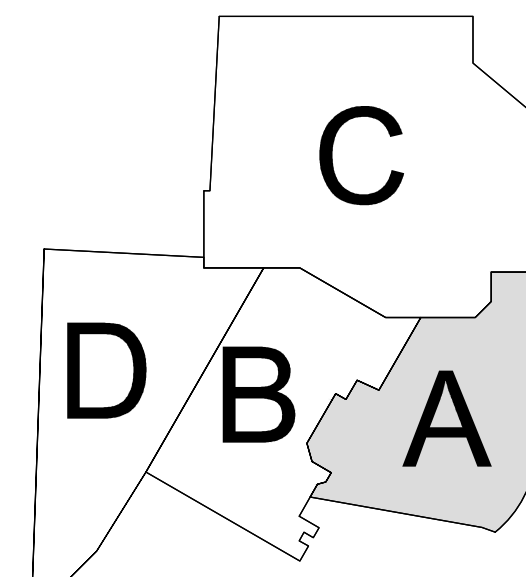
DRAWN BY: RBS DATE: 2/2003

SCALE: NONE

SHEET: 1



KEY PLAN



CALL UTILITY NOTIFICATION CENTER OF COLORADO

Know what's below. Call before you dig.

CALL 2 BUSINESS DAYS IN ADVANCE BEFORE YOU DIG. GRAPHIC OR EXCAVATOR FOR THE MARKING OF UNDERGROUND MEMBER UTILITIES.

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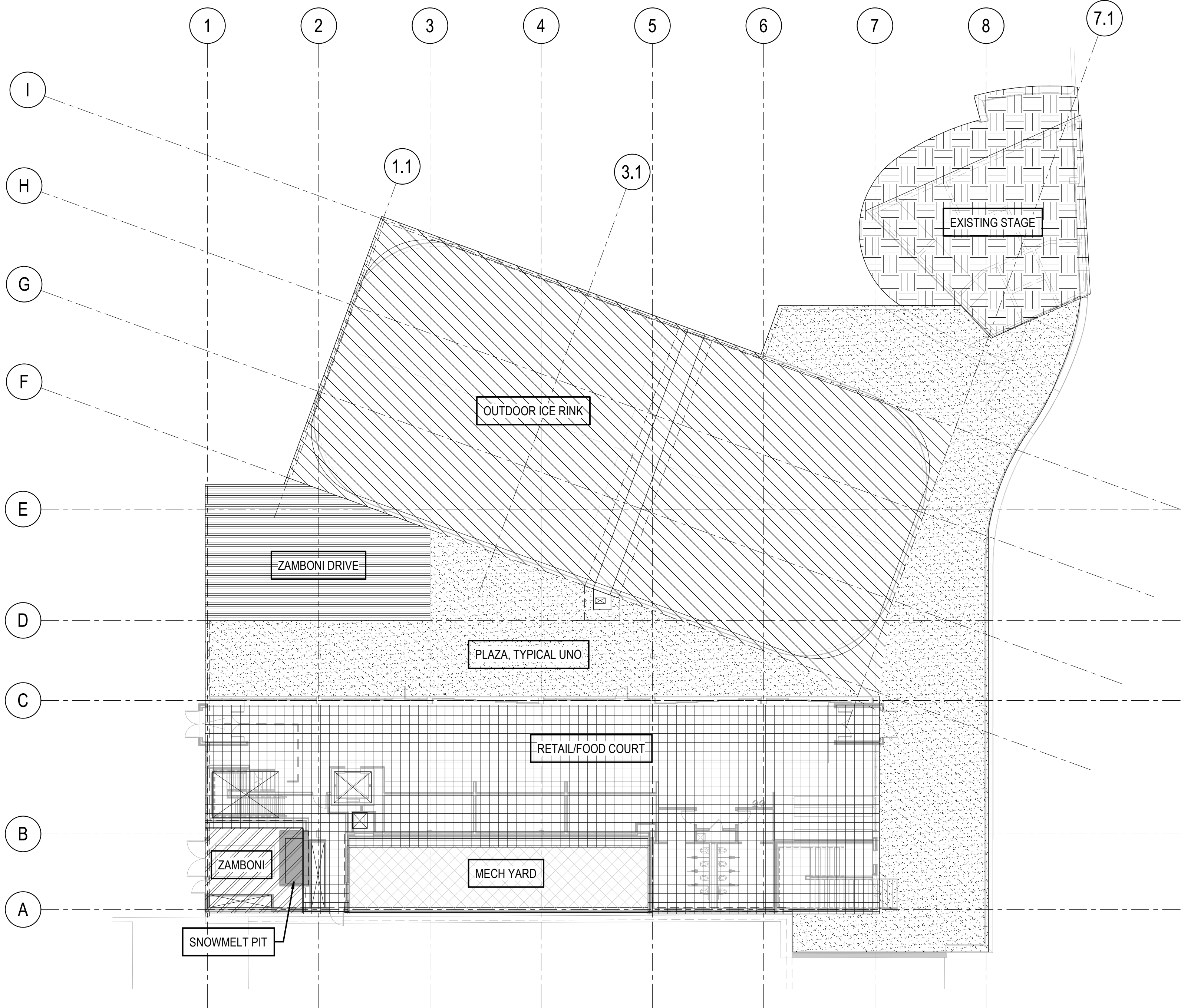
STRUCTURAL DRAWING LIST	
SHEET NUMBER	SHEET TITLE
1A-S0.01	NOTES
1A-S0.02	NOTES
1A-S0.03	NOTES
1A-S0.10	QUALITY ASSURANCE
1A-S0.11	QUALITY ASSURANCE
1A-S1.00	PROMENADE BUILDING - LOWER LEVEL 1
1A-S1.01	PROMENADE BUILDING - LEVEL 1
1A-S1.02	PROMENADE BUILDING - LEVEL 2 AND ROOF FRAMING PLAN
1A-S3.00	TYPICAL CONCRETE DETAILS
1A-S3.01	TYPICAL FOUNDATION DETAILS
1A-S3.02	CONCRETE DETAILS
1A-S3.10	TYPICAL SOG DETAILS
1A-S3.11	CONCRETE DETAILS
1A-S3.50	CONCRETE SUPPORTING STEEL DETAILS
1A-S3.51	CONCRETE SUPPORTING METAL DECK
1A-S4.00	MASONRY DETAILS
1A-S5.00	TYP STEEL BEAM CONNS - LRFD
1A-S5.01	TYP STEEL BEAM CONNS - LRFD
1A-S5.02	STEEL DETAILS
1A-S5.03	STEEL DETAILS
1A-S5.30	TYPICAL COMPOSITE SLAB DETAILS
1A-S5.31	TYPICAL SLAB ON METAL DECK DETAILS
1A-S5.40	PERFORMANCE SPECIFIED FRAMING

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MIL JOB # - 2014115.01
PRINCIPAL KELLY KNOWLES
DATE PRINTED 5/19/2021 12:02 PM
PLOT PATH: S:\03\003\155\001 - Steamboat_Road\03\155\001 - Structural_S01_Promenade Building 2021 - 2021.rvt

DESIGNER: NC MARTIN
LEAD REVIT TECH COLIN KNOWLES
DATE PRINTED 5/19/2021 12:02 PM
PLOT PATH: S:\03\003\155\001 - Steamboat_Road\03\155\001 - Structural_S01_Promenade Building 2021 - 2021.rvt

PROJECT MANAGER: C. A. CHEN



1 PLAZA LOADING PLAN
1/16" = 1'-0"

GRAVITY LOADS				
LOCATION	SUPERIMPOSED DEAD LOAD (PSF)	LIVE LOAD (PSF)	LIVE LOAD REDUCTION	POINT LOAD (LB)
OUTDOOR ICE RINK	107	250	NO	2,000
PLAZA	75	250	NO	2,000 LBS PER WHEEL LOADS, 8,000 LBS TOTAL VEHICLE WEIGHT
RETAIL/FOOD COURT	55	100	NO	2,000
MECH YARD	75	75 + EQUIP BUT NOT LESS THAN 150	NO	-
EXISTING STAGE, PER EXISTING DRAWING DATED 2013	50	100 PER EXISTING DRAWING	YES	2,000
ZAMBONI	150	100	NO	4,800 LBS = MAX ZAMBONI AXLE LOAD, 7,700 LBS = MAX ZAMBONI TOTAL WEIGHT NON-CONCURRENT WITH 100 PSF UNIFORM LOAD
SNOWMELT PIT	75	300	NO	-
ZAMBONI DRIVE	75	250	NO	4,800 LBS = MAX ZAMBONI AXLE LOAD, 7,700 LBS = MAX ZAMBONI TOTAL WEIGHT NON-CONCURRENT WITH UNIFORM LOAD

NOTE:
LOADS ARE SERVICE LEVEL.

FOUNDATION NOTES

- 1) DESIGN CRITERIA:**
THE GEOTECHNICAL REPORT PREPARED BY NORTHWEST COLORADO CONSULTANTS, INC., NUMBER 20-12000, DATED 12/30/2020 PROVIDED CRITERIA FOR THE FOUNDATION DESIGN FOR THE PROJECT.
- 2) FOOTINGS:**
2A) FOOTINGS ARE DESIGNED BASED ON IMPROVED SOILS USING AGGREGATE PIERS AT COLUMN FOOTINGS AND SHEAR WALL FOOTINGS. SEE SPECIFICATIONS FOR ADDITIONAL INFORMATION.
2B) FOOTING DESIGN CRITERIA:
- MAXIMUM TOTAL LOAD BEARING PRESSURE = 7000 PSF
- MINIMUM CONTINUOUS FOOTING WIDTH = 12 FT
- MINIMUM SPREAD FOOTING WIDTH = 12 FT
- ULTIMATE COEFFICIENT OF FRICTION TO RESIST LATERAL LOADS = 0.4
- FROST DEPTH TO BOTTOM OF FOUNDATION = 48 IN
- 3) FOUNDATION WALLS:**
2A) EQUIVALENT FLUID PRESSURES USED FOR WALL DESIGN:
- "ACTIVE" CONDITION = 45 PCF
- "AT REST" CONDITION = 55 PCF
- "PASSIVE" CONDITION = 275 PCF
- LATERAL PRESSURE DUE TO SURCHARGE = 250 PSF
- ULTIMATE COEFFICIENT OF FRICTION TO RESIST LATERAL LOADS = 0.4
3B) WALL DESIGN BASED ON IN-SITU SOILS ADJACENT TO FOUNDATION WALLS. SEE EARTHWORK SPECIFICATION FOR REQUIREMENTS.
- 4) SITE RETAINING WALLS:**
4A) EQUIVALENT FLUID PRESSURES USED FOR WALL DESIGN:
- "ACTIVE" CONDITION = 45 PCF
- "AT REST" CONDITION = 55 PCF
- "PASSIVE" CONDITION = 275 PCF
- LATERAL PRESSURE DUE TO SURCHARGE = 250 PSF
- LATERAL PRESSURE DUE TO SURCHARGE AT THE PLANTER WALL AND EXISTING STAGE = 100 PSF
- ULTIMATE COEFFICIENT OF FRICTION TO RESIST LATERAL LOADS = 0.4
4B) WALL DESIGN BASED ON IN-SITU SOILS ADJACENT TO FOUNDATION WALLS. SEE EARTHWORK SPECIFICATION FOR REQUIREMENTS.

GENERAL NOTES

- 1) GENERAL:**
1A) ENGINEER: REFERENCES ON THE STRUCTURAL DRAWINGS TO 'ENGINEER' MEAN THE STRUCTURAL ENGINEER OF RECORD. OTHER ENTITIES ARE SPECIFICALLY NOTED AS "CONTRACTOR'S ENGINEER", "MECHANICAL ENGINEER", ETC.
1B) THESE NOTES SUPPLEMENT THE SPECIFICATIONS, WHICH SHALL BE REFERENCED FOR ADDITIONAL REQUIREMENTS.
1C) UNDERGROUND UTILITIES: LOCATE EXISTING UTILITIES AND NOTIFY ARCHITECT OF EXISTING UTILITIES OR SUBGRADE CONDITIONS WHICH INTERFERE WITH WORK.
1D) STRUCTURAL ELEMENTS ARE CENTERED ON GRID LINES AND GRID LINE INTERSECTIONS UNLESS DIMENSIONED OTHERWISE.
- 2) USE OF DRAWINGS:**
2A) DO NOT SCALE DRAWINGS.
2B) DETAILS ON DRAWINGS TAKE PRECEDENCE OVER GENERAL NOTES AND TYPICAL DETAILS.
2C) DETAILS NOTED TYPICAL APPLY TO ALL SIMILAR CONDITIONS. WHERE NO SPECIFIC DETAILS ARE SHOWN, CONSTRUCTION SHALL CONFORM TO SIMILAR WORK ELSEWHERE ON THE PROJECT.
2D) WHERE DISCREPANCIES OCCUR BETWEEN PLANS, DETAILS, GENERAL NOTES AND SPECIFICATIONS: CONTACT THE ARCHITECT PRIOR TO PROCEEDING WITH CONSTRUCTION
- THE MORE STRINGENT REQUIREMENTS SHALL GOVERN FOR BIDDING / PRICING
- 3) EXISTING STRUCTURES:**
3A) CONTRACT DOCUMENTS HAVE BEEN PREPARED USING AVAILABLE DRAWINGS AND SITE OBSERVATION AS PERMITTED BY ACCESS RESTRICTIONS DURING DESIGN.
3B) DURING CONSTRUCTION, THE CONTRACTOR MAY ENCOUNTER EXISTING CONDITIONS WHICH ARE NOT KNOWN OR ARE AT VARIANCE WITH PROJECT DOCUMENTATION. CONTRACTOR SHALL NOTIFY THE ARCHITECT OF ALL CONDITIONS NOT PER THE CONTRACT DOCUMENTS. EXAMPLES INCLUDE:
- SIZES OR DIMENSIONS OTHER THAN THOSE SHOWN
- DAMAGE OR DETERIORATION TO MATERIALS AND COMPONENTS
- CONDITIONS OF INSTABILITY OR LACK OF SUPPORT
- ITEMS NOTED AS EXISTING ON THE DRAWINGS BUT NOT FOUND IN THE FIELD
3C) PREPARE DIMENSIONAL DRAWINGS OF ALL DISCOVERED ITEMS.
3D) CONTRACTOR SHALL FIELD VERIFY ALL EXISTING STRUCTURAL CONDITIONS PRIOR TO SUBMITTING SHOP DRAWINGS.
3E) CONTRACTOR SHALL MAKE ALLOWANCE FOR THE RESOLUTION OF SUCH DISCOVERIES IN THE CONSTRUCTION SCHEDULE.
3F) SUBMIT A DIMENSIONED DRAWING OF ALL NEW OPENINGS THROUGH EXISTING STRUCTURE AND SECURE APPROVAL PRIOR TO CUTTING. NEW OPENING MAY BE EITHER SHOWN ON THE CONTRACT DOCUMENTS OR PROPOSED BY THE CONTRACTOR. DRAWING SHALL SHOW:
- VERTICAL & HORIZONTAL LOCATION AND SIZE OF NEW OPENING(S)
- ALL EXISTING OPENINGS IN THE VICINITY OF THE NEW OPENING(S)
- ALL EXISTING STRUCTURE (BEAMS, COLUMNS, SLABS, WALLS, ETC) IN THE VICINITY OF THE NEW OPENING(S)
- ALL REINFORCING BAR SIZES AND POSITIONS (LAYOUT LOCATION AND DEPTH) CONFLICTING WITH OR IN THE VICINITY OF THE NEW OPENING(S).
- 4) COORDINATION:**
4A) STRUCTURAL DRAWINGS ARE NOT STAND-ALONE DOCUMENTS AND ARE INTENDED TO BE USED IN CONJUNCTION WITH CIVIL, ARCHITECTURAL, MECHANICAL, ELECTRICAL, AND DRAWINGS FROM OTHER DISCIPLINES. THE CONTRACTOR SHALL COORDINATE ALL REQUIREMENTS OF THE CONTRACT DOCUMENTS INTO SHOP DRAWINGS AND WORK.
4B) COORDINATE DIMENSIONS OF ALL OPENINGS, BLOCKOUTS, DEPRESSIONS, ETC., WITH ARCHITECTURAL DRAWINGS, DRAWINGS FROM OTHER DISCIPLINES, AND FIELD CONDITIONS PRIOR TO SHOP DRAWING SUBMITTAL.
4C) SEE ARCHITECTURAL PLANS FOR INTERIOR PARTITIONS. PARTITION FRAMING SHALL BE CONNECTED TO THE PRIMARY STRUCTURE IN SUCH A WAY SO AS TO ALLOW FOR VERTICAL LIVE LOAD DEFLECTIONS OF SPAN/360 AT FLOOR FRAMING OR SPAN/240 AT ROOF FRAMING. DO NOT MAKE RIGID VERTICAL AND HORIZONTAL CONNECTIONS TO THE PRIMARY STRUCTURE IN THE PLANE OF THE PARTITION.
- 5) SUBMITTALS AND SUBSTITUTIONS:**
5A) SUBMITTALS: REFER TO SPECIFICATIONS FOR DETAILED REQUIREMENTS.
- IF THE CONTRACTOR REQUESTS A CHANGE FROM THE STRUCTURAL DRAWINGS, IT SHALL BE APPROVED BY THE ARCHITECT AND DESIGNED BY MARTIN/MARTIN, INC. PRIOR TO SUBMITTING SHOP DRAWINGS. VARIATION SHALL BE INDICATED ON THE SHOP DRAWINGS. CONTRACTOR SHALL COMPENSATE MARTIN/MARTIN, INC. FOR MAKING THE CHANGE.
- CONSTRUCTION DOCUMENTS SHALL NOT BE REPRODUCED FOR USE IN SUBMITTALS
- ALL SHOP DRAWINGS SHALL REFERENCE THE STRUCTURAL DRAWING NUMBER AND DETAIL USED TO PREPARE THE SUBMITTAL
- SUBMIT A STATEMENT OF RESPONSIBILITY FOR CONSTRUCTION OF THE LATERAL LOAD RESISTING SYSTEM IDENTIFIED IN THE DESIGN CRITERIA IN ACCORDANCE WITH IBC 2018 SECTION 1704
5B) SUBSTITUTIONS: ARCHITECT'S APPROVAL SHALL BE SECURED FOR ALL SUBSTITUTIONS
5C) NONCONFORMANCE: NOTIFY ARCHITECT OF CONDITIONS NOT CONSTRUCTED PER THE CONTRACT DOCUMENTS PRIOR TO CORRECTING WORK. SUBMIT PROPOSED REPAIR TO THE ARCHITECT FOR ACCEPTANCE. CONTRACTOR SHALL COMPENSATE MARTIN/MARTIN, INC. FOR DESIGNING THE REPAIR.
- 6) TEMPORARY CONDITIONS, CONSTRUCTION ENGINEERING, AND OSHA STANDARDS:**
6A) THE STRUCTURE IS DESIGNED TO FUNCTION AS A UNIT UPON COMPLETION AND ONLY FOR LOADS ANTICIPATED DURING THE STRUCTURE'S SERVICE LIFE.
6B) THE CONTRACTOR IS RESPONSIBLE FOR FURNISHING ALL TEMPORARY BRACING AND/OR SUPPORT THAT MAY BE REQUIRED AS THE RESULT OF THE CONTRACTOR'S CONSTRUCTION METHODS AND/OR SEQUENCES. REFER TO "LATERAL LOAD RESISTING SYSTEM DESCRIPTION" IN DESIGN CRITERIA FOR ADDITIONAL INFORMATION. CONTRACTOR SHALL PROVIDE ALL REQUIRED ENGINEERING AND OTHER MEASURES TO ACHIEVE THE MEANS, METHODS, AND SEQUENCES OF WORK WHICH MAY INCLUDE, BUT IS NOT LIMITED TO:
- LAYOUT
- DESIGN FOR FORMWORK, SHORING, AND RESHORING
- DESIGN OF CONCRETE MIXES
- ERECTION PROCEDURES WHICH ADDRESS STABILITY OF THE FRAME DURING CONSTRUCTION
- WELD PROCEDURES
- DESIGN OF TEMPORARY BRACING OF WALLS FOR WIND, SEISMIC, OR SOIL LOADS
- SURVEYING TO VERIFY CONSTRUCTION TOLERANCES
- EVALUATION OF TEMPORARY CONSTRUCTION LOADS ON STRUCTURE DUE TO EQUIPMENT AND MATERIALS
- STRUCTURAL ENGINEERING TO RESIST ANY OTHER LOADS NOT IDENTIFIED ON DESIGN DRAWINGS
6C) FOUNDATION WALLS SHALL NOT BE BACKFILLED UNTIL THE SLABS-ON-GRADE AND UPPER SLABS ARE IN-PLACE AND REACH FULL STRENGTH UNLESS ADEQUATE BRACING IS PROVIDED. USE ONLY HAND OPERATED TOOLS FOR COMPACTION ADJACENT TO FOUNDATION WALLS AND GRADE BEAMS. GRADE BEAMS SHALL BE BACKFILLED EVENLY ON BOTH SIDES.
6D) NOTHING SHOWN ON THE STRUCTURAL DRAWINGS SHALL BE CONSTRUED AS ELIMINATING THE NEED FOR THE CONTRACTOR TO COMPLY WITH ALL OSHA REQUIREMENTS. WHERE THE STRUCTURAL DRAWINGS APPEAR TO CONFLICT WITH OSHA REQUIREMENTS, THE STRUCTURAL DRAWINGS REPRESENT FINAL CONDITIONS ONLY.
- THE CONTRACTOR SHALL ADD ALL ERECTION FRAMING NECESSARY TO COMPLY WITH OSHA.
- THE CONTRACTOR SHALL ADD ALL NECESSARY BOLTS, ANCHOR BOLTS, PLATES, STIFFENER PLATES, STABILIZER PLATES, BRIDGING, BRACING, BEARING SEATS, COLUMN SPLICES, ETC., AS WELL AS CLOSURES FOR OPENINGS. IN ADDITION, FIELD WELD ANYTHING THAT MAY BE CONSIDERED A TRIP HAZARD, SUCH AS SHEAR STUDS, AFTER PROTECTIVE DECKING IS INSTALLED.
- WASHERS OR RINGS MAY BE WELDED TO COLUMNS TO PROVIDE FOR SAFETY CABLES. HOLES IN COLUMNS FOR SAFETY CABLES SHALL BE SHOP INSTALLED AND SHALL BE INDICATED ON SHOP DRAWINGS. ADJUST COLUMN SPLICE LOCATIONS OR ADD COLUMN SPLICES AS NECESSARY TO COMPLY WITH OSHA REQUIREMENTS. SUBMIT PROPOSED LOCATIONS.
- HOLES IN CONCRETE COLUMNS FOR SAFETY CABLES SHALL BE INDICATED ON THE SHOP DRAWINGS, SHALL BE LIMITED TO 1/8" MAXIMUM, LOCATED WITHIN THE MIDDLE THIRD OF THE COLUMN AND SHALL BE CREATED USING SLEEVES. DO NOT DRILL OR CORE COLUMNS TO INSTALL SAFETY CABLES.
- ALL METAL JOISTS REQUIRED BY OSHA TO BE BOLTED SHALL HAVE ERECTION BOLTS INSTALLED REGARDLESS OF FINAL CONNECTION SHOWN ON THE STRUCTURAL DRAWINGS.



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Seal / Signature

Date Description

- 2021.05.19 BP3: PROMENADE - ISSUE FOR CONSTRUCTION PERMIT

RCRBD
Record Set
TC
07/10/2021

Project Name

SSRC | BASE AREA
IMPROVEMENTS

Project Number

20.1411.S.01

Description

NOTES

Scale

As indicated

1A-S0.02

DESIGNER: NC MARTIN
LEAD REVIT TECH COLIN KNOWLES
DATE PRINTED: 5/19/2021 12:05 PM
FILE PATH: S:\03\103\103.001 - Steamboat_Road\03 TBS 000 - Structural_S00 Promenade Building 2021-2021.rvt

MIL JOB #: 201411.S.01
PRINCIPAL: KELLY KNOWLES
FOR KELLY KNOWLES
PROJECT MANAGER: C. A. CHEN

STEEL NOTES				
1) CONNECTIONS: 1A) PROVIDE CONNECTIONS AS SHOWN IN THE 'STEEL BEAM CONNECTION SCHEDULES' AND DETAILS HEREIN. REFER TO SPECIFICATION FOR ALTERNATIVES AND CONNECTIONS NOT SHOWN.				
2) STEEL MATERIALS: 2A) SEE 'STEEL MATERIAL TABLE'				
3) WELDING REQUIREMENTS: 3A) WELDERS: HAVE IN POSSESSION CURRENT EVIDENCE OF PASSING THE APPROPRIATE AWS. QUALIFICATION TESTS.				
3B) MINIMUM WELDS: AISC SPECIFICATION, NOT LESS THAN 3/16" FILLET, CONTINUOUS UNLESS OTHERWISE NOTED.				
3C) WELD SIZES AND LENGTHS CALLED FOR ON THE DRAWINGS ARE THE NET EFFECTIVE REQUIRED. INCREASE WELD SIZE IF GAPS EXIST AT THE FAYING SURFACE.				
3D) WELD SIZES SHALL BE AS SHOWN UNLESS A GREATER SIZE IS REQUIRED BY ANSI/AISC 360-05 TABLES J2.3 AND J2.4.				
3E) ALL GROOVE WELDS SHALL BE COMPLETE PENETRATION UNLESS NOTED.				
3F) FIELD WELDING SYMBOLS INDICATE SEQUENCE CONSIDERED DURING DESIGN. THE CONTRACTOR SHALL REQUEST APPROVAL FROM THE ENGINEER TO MODIFY WELD INSTALLATION LOCATION INDICATED ON THE DOCUMENTS: FROM SHOP TO FIELD FROM FIELD TO SHOP				
3G) DEFORMED ANCHOR STUDS (DAS) AND HEADED ANCHOR STUDS (HAS / HDAS) SHALL BE SHOP OR FIELD WELDED AT CONTRACTOR'S OPTION UNLESS NOTED OTHERWISE				
4) COMPOSITE GRAVITY FRAMING: 4A) COMPOSITE BEAMS ARE DESIGNED ASSUMING STUDS ARE INSTALLED IN THE WEAK POSITION (Rp = 0.6). SEE TYPICAL METAL DECK DETAILS FOR PLACEMENT REQUIREMENTS.				
4B) COMPOSITE GIRDERS ARE DESIGNED ASSUMING STUDS ARE WELDED THROUGH THE METAL DECK AND/OR METAL DECKING/SHEET STEEL COVERS MORE THAN HALF OF THE TOP FLANGE (Rp = 0.75). SEE TYPICAL METAL DECK DETAILS FOR PLACEMENT REQUIREMENTS.				
5) CAMBER: 5A) FABRICATE BEAMS SUCH THAT ROLLING OR FABRICATION INDUCED CAMBER IS UP AFTER ERECTION.				
5B) CAMBER SHOWN IS BASED ON THE COMPUTED DEFLECTION OF THE BEAM DUE TO SELF WEIGHT OF CONCRETE PLACED. DESIGN IS BASED ON THE THEORETICAL CONCRETE THICKNESS PLUS 1/2" THICKNESS FOR DECK LEVELING AND 1/2" THICKNESS FOR BEAM LEVELING. INCLUDE QUANTITY OF ADDED CONCRETE DUE TO DECK AND BEAM DEFLECTION IN BID.				
6) STRUCTURAL STEEL INSTALLATION: 6A) UNLESS INDICATED OTHERWISE, SNUG TIGHTEN ALL JOINTS AS DEFINED BY AISC CONNECTIONS AS INDICATED BELOW SHALL BE PRETENSIONED PER TABLE J3.1 OF ANSI/ AISC 360-16 6B) CONNECTIONS NOTED ON THE DRAWINGS AS "SC" SHALL MEET THE FOLLOWING REQUIREMENTS: - FAYING SURFACES SHALL BE CLASS A PER AISC UNLESS NOTED OTHERWISE BOLTS SHALL BE PRETENSIONED PER TABLE J3.1 OF ANSI/AISC 360-16				
7) METAL DECK: 7A) SEE 'METAL DECK SCHEDULE' FOR MATERIALS, PROFILE, AND CONNECTIONS TO STRUCTURE.				
7B) QUALITY CONTROL AND QUALITY ASSURANCE FOR STEEL DECK INSTALLATION SHALL BE IN ACCORDANCE WITH SDI QA/QC-2011, "STANDARD FOR QUALITY CONTROL AND QUALITY ASSURANCE FOR THE INSTALLATION OF STEEL DECK" AS MODIFIED BY TABLE C-1 CONTAINED IN THE COMMENTARY TO THAT STANDARD.				
7C) DECK DESIGN IS IN ACCORDANCE WITH STEEL DECK INSTITUTE (SDI) FLOOR DECK DESIGN MANUAL (2014), SDI ROOF DECK DESIGN MANUAL (2013), AND SDI DIAPHRAGM DESIGN MANUAL, 4TH EDITION (2015)				
7D) PLACE CONCRETE ON METAL DECK IN ACCORDANCE WITH SDI FLOOR DECK DESIGN MANUAL (2014) TO LIMIT CONSTRUCTION LOADS TO ALLOWABLE MAGNITUDES.				
7E) SCREED CONCRETE TO PROVIDE CONSTANT THICKNESS.				
7F) REINFORCE OPENINGS IN METAL ROOF DECK AND FLOOR DECK SUPPORTING CONCRETE FILL IN ACCORDANCE WITH TYPICAL DECK OPENING DETAILS.				
7G) INSTALL DECK OVER 4 SUPPORTS (3 SPAN CONTINUOUS) UNLESS NOTED OTHERWISE. DO NOT INSTALL DECK AS SINGLE SPAN UNLESS SPECIFICALLY SHOWN ON DRAWINGS.				
7H) PROVIDE DECK ATTACHMENTS AS NOTED ON DRAWINGS. 7I) HANGERS: SEE TYPICAL METAL DECK DETAILS FOR ALLOWABLE HANGER LOADS, SPACING AND ATTACHMENT.				
8) STRUCTURAL COLD FORMED METAL FRAMING: 8A) COLD FORMED METAL FRAMING IS A PERFORMANCE SPECIFIED ITEM DESIGNED BY THE CONTRACTOR. PROVIDE STUD DEPTH INDICATED ON THE DRAWINGS. DO NOT EXCEED MAXIMUM SPACING INDICATED. VARY FLANGE WIDTH, GAGE, YIELD STRENGTH, BRACING, STUD SPACING, ETC. AS REQUIRED TO SATISFY PERFORMANCE CRITERIA IN THE CONTRACT DOCUMENTS. MINIMUM STUD GAGE SPECIFIED IS REQUIRED FOR ATTACHMENT OF OTHER MATERIALS TO STUDS. DO NOT BASE BIDS ON MINIMUM GAGE OR MAXIMUM SPACING SPECIFIED.				
8B) REFER TO DETAILS FOR MINIMUM CONNECTIONS AND OTHER REQUIREMENTS. DEVELOP FORCES NOTED. DO NOT IMPOSE FORCES ON THE BUILDING STRUCTURE IN DIRECTIONS OR AT LOCATIONS OTHER THAN THAT SHOWN ON THE STRUCTURAL DRAWINGS. DO NOT IMPOSE FORCES LARGER THAN SPECIFIED. CONNECTIONS TO CONCRETE SHALL NOT USE PAFs TO RESIST TENSION LOADS.				
8C) LOAD BEARING METAL FRAMING: - MAXIMUM GAP BETWEEN WALL STUDS AND TRACK SHALL BE 1/8". SHIM AS REQUIRED TO ACHIEVE THIS CRITERIA. - ALL BRACING, BRIDGING, AND CONNECTIONS SHALL BE COMPLETE PRIOR TO PLACING CONCRETE SLABS OR INSTALLING ROOF FRAMING ABOVE.				
STEEL MATERIAL TABLE				
STEEL ELEMENT	ASTM/TYPE	Fy (KSI)	Fu (KSI)	COMMENTS
ANCHOR RODS	F1554 GR 55	55	75	WELDABLE, HEAVY HEX HEADED
ANCHOR RODS IN MASONRY	F1554 GR 36, F1554 GR 55, OR A307 GRADE A/C	36	58	WELDABLE, STD HEX HEAD
BOLTS	F3125 - TYPE A325 OR F1852	--	120	BOLTS ARE 3/4"Ø UNO. USE TENSION-CONTROLLED WHERE POSSIBLE
COLD-FORMED STUDS/PLATE, 33 AND 43 MIL	A1003	33	--	--
COLD-FORMED STUDS/PLATE, 54 MIL AND HEAVIER	A1003	50	--	--
COLD-FORMED TRACK, ALL THICKNESSES	A1003	33	--	--
DAS	A1064	70	80	--
HAS	A108	51	65	STUDS ARE 3/4"Ø UNO
OTHER SHAPES	A36	36	58	--
PIPE	A53 GR B	35	60	--
PLATES	A36	36	58	--
RECT HSS	A500 GR C	50	62	--
ROUND HSS	A500 GR C	46	62	--
STEEL GRATING				PER NAAMM MBG 531, "METAL BAR GRATING MANUAL"
WELDING ELECTRODES, THICKNESS OF THINNER PART > 0.1 INCHES (12 GA)	E70			PER AWS
WELDING ELECTRODES, THICKNESS OF THINNER PART ≤ 0.1 INCHES (12 GA)	E60 OR E70	--	--	PER AWS
WF, WT	A992	50	65	--

MASONRY NOTES

1) DEFINITIONS:

1A) THE CONTRACTOR SHALL ARRANGE AN ANCHOR MANUFACTURER'S REPRESENTATIVE TO PROVIDE ONSITE INSTALLATION TRAINING FOR ALL OF THEIR ANCHORING PRODUCTS SPECIFIED. SUBMIT DOCUMENTED CONFIRMATION THAT ALL OF THE CONTRACTOR'S PERSONNEL WHO INSTALL ANCHORS HAVE PASSED THE TRAINING COURSE PRIOR TO THE COMMENCEMENT OF INSTALLING ANCHORS.

1B) PERSONNEL WHO WILL INSTALL HORIZONTAL OR UPWARDLY INCLINED ADHESIVE ANCHORS IN CONCRETE THAT SUPPORT SUSTAINED TENSION LOADS SHALL BE CERTIFIED BY THE ACI/CRSI ADHESIVE ANCHOR INSTALLER CERTIFICATION PROGRAM. THESE ANCHORS ARE DESIGNATED WITH A (CERT) AFTER THE ANCHOR CALL OUT. SUBMIT DOCUMENTED CONFIRMATION THAT PERSONNEL HAVE PASSED THE TRAINING COURSE PRIOR TO THE COMMENCEMENT OF INSTALLING ANCHORS.

2) DESIGN STRENGTH:

2A) DEVELOP 2000 PSI COMPRESSIVE STRENGTH (fm) IN 28 DAYS.

2B) STEEL REINFORCING:

PRIMARY REINFORCING: ASTM A615, 60 KSI

HORIZONTAL JOINT REINFORCING: ASTM A951, PREFABRICATED, LADDER TYPE

3) SPLICES:

3A) SEE MASONRY LAP SPlice SCHEDULE FOR LAP LENGTHS.

4) INSTALLATION REQUIREMENTS:

4A) GROUT SOLID ALL CELLS CONTAINING REINFORCING, EMBEDDED ITEMS, AND ALL OTHER CELLS NOTED ON THE CONTRACT DOCUMENTS.

POST-INSTALLED ANCHOR NOTES

1) PERSONNEL REQUIREMENTS:

1A) THE CONTRACTOR SHALL ARRANGE AN ANCHOR MANUFACTURER'S REPRESENTATIVE TO PROVIDE ONSITE INSTALLATION TRAINING FOR ALL OF THEIR ANCHORING PRODUCTS SPECIFIED. SUBMIT DOCUMENTED CONFIRMATION THAT ALL OF THE CONTRACTOR'S PERSONNEL WHO INSTALL ANCHORS HAVE PASSED THE TRAINING COURSE PRIOR TO THE COMMENCEMENT OF INSTALLING ANCHORS.

1B) PERSONNEL WHO WILL INSTALL HORIZONTAL OR UPWARDLY INCLINED ADHESIVE ANCHORS IN CONCRETE THAT SUPPORT SUSTAINED TENSION LOADS SHALL BE CERTIFIED BY THE ACI/CRSI ADHESIVE ANCHOR INSTALLER CERTIFICATION PROGRAM. THESE ANCHORS ARE DESIGNATED WITH A (CERT) AFTER THE ANCHOR CALL OUT. SUBMIT DOCUMENTED CONFIRMATION THAT PERSONNEL HAVE PASSED THE TRAINING COURSE PRIOR TO THE COMMENCEMENT OF INSTALLING ANCHORS.

2) INSTALLATION REQUIREMENTS:

2A) ALL POST-INSTALLED ANCHORS SHALL BE INSTALLED ACCORDING TO MANUFACTURER'S PRINTED INSTALLATION INSTRUCTIONS AND PER MANUFACTURER'S ON-SITE TRAINING.

2B) ALL ADHESIVE ANCHORS AND ADHESIVE ANCHORED REINFORCEMENT DESIGNS ARE FOR INSTALLATION IN THE FOLLOWING CONDITIONS, UNLESS NOTED OTHERWISE. WRITTEN APPROVAL MUST BE RECEIVED FROM ENGINEER PRIOR TO INSTALLATION IN ALTERNATE CONDITIONS.

DRY CONCRETE, UNLESS NOTED OTHERWISE.

CONCRETE TEMPERATURE AT TIME OF INSTALLATION THROUGH CURE TIME MUST BE WITHIN THE TEMPERATURE RANGE SPECIFIED IN MANUFACTURER'S PRINTED INSTALLATION INSTRUCTION FOR ADHESIVE GEL AND CURE TIMES.

ANCHOR HOLES TO BE HAMMER DRILLED AND CLEANED.

CONCRETE MUST BE AT LEAST 21 DAYS OLD BEFORE INSTALLATION OF ANCHORS.

HOLES TO BE CLEANED AND PREPARED IN STRICT ACCORDANCE WITH MANUFACTURER'S PRINTED INSTALLATION INSTRUCTIONS AND EVALUATION REPORT PRIOR TO ADHESIVE INJECTION.

2C) THE POSITION OF EXISTING REINFORCING BARS IN THE CONCRETE STRUCTURE SHALL BE LOCATED PRIOR TO INSTALLING POST INSTALLED ANCHORS OR REINFORCEMENT. EXISTING REINFORCEMENT SHALL BE LOCATED USING A SCANNER, GPR, X-RAY, CHIPPING OR OTHER MEANS. DO NOT DAMAGE OR CUT EXISTING REINFORCEMENT.

3) SUBSTITUTION REQUESTS:

3A) SUBSTITUTION REQUESTS FOR ALTERNATE PRODUCTS MUST BE APPROVED IN WRITING BY THE STRUCTURAL ENGINEER PRIOR TO USE. CONTRACTOR SHALL PROVIDE CALCULATIONS AND PRODUCT DATA DEMONSTRATING THAT THE SUBSTITUTED PRODUCT IS IN COMPLIANCE WITH THE RELEVANT BUILDING CODES, LOAD RESISTANCE, INSTALLATION CATEGORY, CREEP APPROVAL, IN-SERVICE TEMPERATURE AND INSTALLATION TEMPERATURE OF THE SPECIFIED PRODUCT.

POST-INSTALLED ANCHOR TABLE				
ANCHOR TYPE	PRODUCT	Fy (KSI)	Fu (KSI)	COMMENT
ADHESIVE (IN CONCRETE)	HILTI HIT-HY 200	-	-	SUBMIT CALCULATIONS FOR SUBSTITUTIONS
ADHESIVE (IN CONCRETE W/12" EMBEDMENT)	HILTI HIT-RE 500 V3	-	-	SUBMIT CALCULATIONS FOR SUBSTITUTIONS
ADHESIVE (IN GROUTED OR HOLLOW MASONRY)	HILTI HIT-HY 270	-	-	SUBMIT CALCULATIONS FOR SUBSTITUTIONS
ADHESIVE ANCHOR RODS	-	36 MIN	58 MIN	THREADED ROD, UNGREASED
EXPANSION ANCHORS (IN CONCRETE)	HILTI KWIK BOLT TZ	-	-	SUBMIT CALCULATIONS FOR SUBSTITUTIONS
EXPANSION ANCHORS (IN GROUTED MASONRY)	HILTI KWIK BOLT 3	-	-	SUBMIT CALCULATIONS FOR SUBSTITUTIONS
SCREW ANCHORS	HILTI KWIK HUS-EZ	-	-	SUBMIT CALCULATIONS FOR SUBSTITUTIONS

METAL GAUGE CONVERSION	
GAUGE	MINIMUM THICKNESS (MILS)*
22	27
20	33
18	43
16	54
14	68
12	97

NOTES:

* 1 MIL = 1/1000"

CONCRETE NOTES				
1) GENERAL: 1A) ALL WORK SHALL CONFORM WITH ACI 301-10, UNLESS NOTED OTHERWISE IN DRAWINGS OR PROJECT SPECIFICATIONS.				
1B) DETAIL BARS IN ACCORDANCE WITH THE DRAWINGS, PROJECT SPECIFICATIONS, AND ACI PUBLICATION SP-66 (2004): "ACI DETAILING MANUAL"				
2) REINFORCING MATERIALS: 2A) SEE 'REINFORCING MATERIAL TABLE'				
3) REINFORCING FABRICATION: 3A) SPLICES: - NO SPLICING OF REINFORCEMENT PERMITTED EXCEPT AS NOTED ON DRAWINGS. MAKE BARS CONTINUOUS AROUND CORNERS WHERE DETAIL NOT PROVIDED. WHERE PERMITTED, SPLICES MAY BE MADE BY CONTACT LAPS OR MECHANICAL CONNECTORS. - SEE 'LAP SPlice SCHEDULE' FOR LAP LENGTHS. - SPlice CONTINUOUS TOP AND BOTTOM BARS IN WALLS, BEAMS, AND GRADE BEAMS 'LTS' UNLESS NOTED OTHERWISE. - SPlice TOP BARS AT MIDSPAN AND BOTTOM BARS OVER SUPPORT UNLESS NOTED OTHERWISE.				
3B) MISCELLANEOUS REINFORCING REQUIREMENTS: - PROVIDE ADDITIONAL BARS OR STIRRUPS REQUIRED TO SECURE REINFORCING IN PLACE DURING CONCRETE PLACEMENT. - MAKE ALL REINFORCING BAR BENDS IN THE FABRICATOR'S SHOP UNLESS NOTED. - NO WELDING OF REINFORCING PERMITTED UNLESS NOTED ON DRAWINGS. WHERE PERMITTED, PERFORM WELDING IN ACCORDANCE WITH AWS D1.4-2011. - PROVIDE ADDED REINFORCING TO TRIM ALL OPENINGS, NOTCHES, AND REENTRANT CORNERS AS NOTED IN TYPICAL DETAILS.				
4) STRUCTURAL CONCRETE MIX REQUIREMENTS: 4A) SEE 'CONCRETE MIX TABLE'				
5) SLAB-ON-GRADE: 5A) VERIFY ALKALINITY OF CONCRETE SURFACE, SLAB VAPOR TRANSMISSION, AND SLAB FLATNESS/LEVELNESS ARE COMPATIBLE WITH FLOORING SYSTEM AND ADHESIVES PRIOR TO INSTALLING FLOORING.				
5B) TAKE PRECAUTIONS TO MINIMIZE SLAB CURLING. GRIND SLAB OR USE LEVELING COMPOUND IF FLOOR FLATNESS AND LEVELNESS VALUES ARE NOT ACCEPTABLE TO THE ARCHITECT.				
6) NON-SHRINK GROUT: 6A) CONFORM TO ASTM C1107 6B) ACHIEVE 6000 PSI COMPRESSIVE STRENGTH AT 28 DAYS.				
7) PLACING REINFORCEMENT: 7A) REINFORCEMENT PROTECTION: - SEE 'REBAR COVER TABLE' - SEE ACI 117-10 FOR REINFORCEMENT PLACING TOLERANCES 7B) PROVIDE ACCESSORIES NECESSARY TO PROPERLY SUPPORT REINFORCING AND WELDED WIRE REINFORCEMENT AT POSITIONS SHOWN ON PLANS. ALL REINFORCING, DOWELS, BOLTS, AND EMBEDDED PLATES SHALL BE SET AND TIED IN PLACE BEFORE THE CONCRETE IS POURED. "STABBING" INTO PREVIOUSLY PLACED CONCRETE IS NOT PERMITTED.				
8) CONSTRUCTION/CONTROL JOINTS: 8A) SUBMIT DRAWINGS SHOWING CONSTRUCTION AND CONTROL JOINT LOCATIONS ALONG WITH THE SEQUENCE OF POURS. CONSTRUCTION JOINT LOCATIONS AND CASTING SEQUENCE SHALL BE ARRANGED TO MINIMIZE THE EFFECTS OF ELASTIC AND LONG-TERM SHORTENING/SHRINKAGE. 8B) CONSTRUCTION JOINTS IN SLABS-ON-DECK, SLABS-ON-GRADE, AND STRUCTURAL SLABS SHALL BE LOCATED TO ACCOMMODATE THE MAXIMUM LENGTH AND AREA THE CONTRACTOR CAN REASONABLY POUR, FINISH, AND JOINT IN THE SAME DAY, BUT SHALL NOT EXCEED 150 FEET WITH A MAXIMUM AREA OF 15,000 SQUARE FEET UNLESS APPROVED BY THE ENGINEER. 8C) CONCRETE CONSTRUCTION JOINT SURFACE SHALL BE CLEANED AND ALL LAITANCE AND LOOSE MATERIAL REMOVED PRIOR TO SECOND CONCRETE PLACEMENT. 8D) INTENTIONALLY ROUGHENED CONSTRUCTION JOINTS: WHERE CONSTRUCTION JOINTS ARE LABELED AS "ROUGHENED" ON THE DRAWINGS, THE ENTIRE JOINT SURFACE SHALL BE MECHANICALLY ROUGHENED TO A 1/4" AMPLITUDE AND THOROUGHLY CLEANED. EXPOSE THE COARSE AGGREGATE IN THE HARDENED CONCRETE AND REMOVE ALL LAITANCE AND LOOSE MATERIAL.				
9) MODIFICATIONS TO HARDENED OR EXISTING CONCRETE 9A) UNLESS NOTED ON THE STRUCTURAL DOCUMENTS MODIFICATIONS AS LISTED BELOW SHALL NOT BE MADE TO HARDENED OR EXISTING CONCRETE WITHOUT APPROVAL OF THE ARCHITECT: - SAW CUTTING - CORING - CHIPPING 9B) DO NOT CUT OR DAMAGE ANY REINFORCING WITHOUT APPROVAL OF THE ARCHITECT				
10) SLEEVES, OPENINGS, AND EMBEDDED PIPE/CONDUITS: 10A) GENERAL - REFER TO TYPICAL DETAILS FOR REQUIREMENTS FOR CONDUIT AND PIPE EMBEDDED IN WALLS AND SLABS - REFER TO TYPICAL DETAILS FOR SPACING AND LAYOUT LIMITATIONS FOR SLEEVES AND OPENINGS - FORM OPENINGS AND PROVIDE SLEEVES BEFORE PLACING CONCRETE, CORING OF CONCRETE IS NOT PERMITTED - AT COMPOSITE SLABS DO NOT CUT DECK FOR AT LEAST 7 DAYS AFTER CONCRETE PLACEMENT 10B) REINFORCING - REFER TO TYPICAL DETAILS FOR REINFORCEMENT REQUIREMENTS AT SLEEVES, OPENINGS OR CONDUIT - DO NOT CUT REINFORCING WHICH MAY CONFLICT				

REINFORCING MATERIAL TABLE				
REINF ELEMENT	ASTM	Fy (KSI)	Fu (KSI)	COMMENTS
TYP REINFORCING	A615	60	90	-
WELDED & FIELD BENT REINF	A706	60	80	-
WELDED WIRE REINFORCING, SMOOTH	A1064	65	75	-
WELDED WIRE REINFORCING, DEFORMED	A1064	70	80	-
EPOXY COATING OF REINFORCING	A775 OR A934	-	-	-

CONCRETE MIX TABLE							
CONC MIX TYPE	INTENDED USE	28 DAY STRENGTH Fc (KSI)	CONC WEIGHT	MAX W/C RATIO, INCLUDING FLY ASH	MAX AGGREGATE SIZE (IN), NOTE a	TOTAL AIR CONTENT (%), NOTE b	OTHER REQTS, NOTE c
1	FOOTINGS	3.5	NWC	-	1	-	-
2	BSMT WALLS	4.5	NWC	-	3/4	-	-
3	BSMT WALLS EXPOSED TO MOISTURE	4.5	NWC	0.45	3/4	6	-
4	INT TOPPING SLABS, SLABS ON DECK	3.5	NWC	0.50	3/4	NP	FRC
5	ICE SHEET REFRIGERATED SLAB	4.5 MIN	NWC	0.45	3/8 TO 3/4	-	SEE SPEC 13.20.62
6	INT SLABS ON GRADE	3.5	NWC	-	1	NP	FRC
7	ALL CONC OTHERWISE NOT SPECIFIED	4	NWC	0.50	3/4	6	-

CONCRETE MIX TABLE NOTES:
PROPORTIONS OF MATERIALS IN CONCRETE MIX SHALL BE ESTABLISHED TO:
- PROVIDE THE MINIMUM COMPRESSIVE STRENGTH AS INDICATED IN THE MIX TABLE. DO NOT EXCEED THE MAXIMUM WATER-CEMENT RATIO NOTED.


- PROVIDE WORKABILITY AND CONSISTENCY TO PERMIT CONCRETE TO BE WORKED READILY INTO FORMS AND AROUND REINFORCEMENT UNDER CONDITIONS OF PLACEMENT TO BE EMPLOYED, WITHOUT SEGREGATION OR EXCESSIVE BLEEDING. CONTRACTOR SHALL SELECT APPROPRIATE SLUMP. USE ADMIXTURES AS REQUIRED TO OBTAIN DESIRED RESULTS.

USE TYPE II PORTLAND CEMENT UNLESS NOTED OTHERWISE. FOR CONCRETE MIXES USED ON FLOORS MINIMUM CEMENTITIOUS CONTENT SHALL BE 540 POUNDS PER CUBIC YARD.

IN ORDER TO ACHIEVE LEED POINT FOR RECYCLED CONTENT, CONTRACTOR SHALL CONSIDER USING UP TO 20% FLY ASH BY WEIGHT OF CEMENTITIOUS MATERIALS FOR CONCRETE MIXES USED IN SLABS, AND UP TO 40% FLY ASH BY WEIGHT OF CEMENTITIOUS MATERIALS FOR DRILLED PIERS, WALLS, GRADE BEAMS, AND COLUMNS. FOR FLY ASH CONTENT EXCEEDING 20% FLY ASH BY WEIGHT OF CEMENTITIOUS MATERIALS, CONCRETE SHALL ACHIEVE 500 PSI WITHIN 24 HOURS. SPECIFIED STRENGTH IN TABLE IS REQUIRED AT 56 DAYS.

FOR CONCRETE PLACED BY PUMPING PROVIDE CONCRETE MIX FLOWABILITY TO FACILITATE PUMPING. ENTRAINED AIR MAY BE USED TO FACILITATE PUMPING SUBJECT TO THE PROVISIONS OF NOTE b BELOW.

- a. FOR THE MAXIMUM COARSE AGGREGATE SIZE INDICATED, USE THE FOLLOWING AGGREGATE SIZE NUMBERS PER ASTM C33.
3/4": #67 AGGREGATE
1": #57 AGGREGATE
- b. WHERE AIR CONTENT IS INDICATED IN THE MIX TABLE, PROVIDE AIR ENTRAINING ADMIXTURE. TOTAL AIR CONTENT LIMITS INCLUDE BOTH ENTRAINED AND ENTRAPPED AIR +/- 1 1/2%. "NP" IN COLUMN INDICATES ADDITION OF ENTRAINED AIR IS NOT PERMITTED EXCEPT WHERE CONTRACTOR CAN DEMONSTRATE THAT SLABS WITH ENTRAINED AIR WILL HAVE A FINISH ACCEPTABLE TO THE ARCHITECT WITHOUT BLISTERS. AIR CONTENT NOTED IS BASED ON 3/4" AGGREGATE. IF 3/8" AGGREGATE IS USED, INCREASE AIR CONTENT BY 1 1/2%.
- c. ABBREVIATIONS FOR OTHER REQUIREMENTS AS FOLLOWS:
FRC = FIBER REINFORCED CONCRETE. 1 1/2 LB/YD




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May 19, 2021

Seal / Signature

DateDescription

-2021.05.19BP3: PROMENADE - ISSUE FOR CONSTRUCTION PERMIT

RCRBD
Record Set
TC
07/10/2021

Project Name

SSRC | BASE AREA IMPROVEMENTS

Project Number

20.1411.S.01

Description

NOTES

Scale

12" = 1'-0"

1A-S0.03

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DESIGNER: NC MARTIN
LEAD REVIT: TEO COLLIN WONGLES
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MIL JOB # - 201411.S.01
PRINCIPAL: KELLY KNOWLES
FOR KELL: KNOWLES
PROJECT MANAGER: C. A. CHEN

POST-INSTALLED ANCHORS/REINFORCING STEEL SPECIAL INSPECTIONS			
ITEM	FREQUENCY	STANDARD	CRITERIA
EXPANSION ANCHORS, SLEEVE ANCHORS, SCREW ANCHORS			
- PRIOR TO START OF WORK	-	ICC-ES REPORT	REVIEW CONTRACTOR'S INSTALLATION PROCEDURE
- PRIOR TO INSTALLATION OF ANCHOR	EACH ANCHOR	ICC-ES REPORT	VERIFY TYPE, DIAMETER, LENGTH, FINISH, AND BASE MATERIAL. VERIFY SOLID GROUTED AREA AROUND ANCHORS IN GROUTED MASONRY. VERIFY MAXIMUM IMPACT WRENCH TORQUE RATING FOR SCREW ANCHORS
- DURING INSTALLATION OF ANCHOR	C	ICC-ES REPORT	CONTINUOUS INSPECTION REQUIRED REGARDLESS IF PERIODIC INSPECTION IS PERMITTED BY ICC-ES REPORT. VERIFY HOLE DIMENSIONS, HOLE CLEANING, ANCHOR EMBEDMENT, EDGE DISTANCES AND SPACING
- AFTER INSTALLATION OF ATTACHED ASSEMBLY	100% VISUAL	-	VERIFY NUMBER, EDGE DISTANCES, AND ANCHOR FLUSH WITH AND PERPENDICULAR TO THE RECEIVING SURFACE
ADHESIVE ANCHORS, REINFORCING STEEL ANCHORED INTO HARDENED CONCRETE			
- PRIOR TO START OF WORK	-	ICC-ES REPORT	REVIEW CONTRACTOR'S INSTALLATION PROCEDURE
- PRIOR TO INSTALLATION OF ANCHOR	EACH ANCHOR	ICC-ES REPORT	VERIFY TYPE, DIAMETER, LENGTH, FINISH, AND BASE MATERIAL. VERIFY SOLID GROUTED AREA AROUND ANCHORS IN GROUTED MASONRY
- DURING INSTALLATION OF ANCHOR	C	ICC-ES REPORT	CONTINUOUS INSPECTION REQUIRED REGARDLESS IF PERIODIC INSPECTION IS PERMITTED BY ICC-ES REPORT. VERIFY HOLE DIMENSIONS, HOLE CLEANING, ANCHOR EMBEDMENT, EDGE DISTANCES AND SPACING
- AFTER INSTALLATION OF ATTACHED ASSEMBLY	100% VISUAL	-	VERIFY NUMBER, EDGE DISTANCES, AND ANCHOR FLUSH WITH AND PERPENDICULAR TO THE RECEIVING SURFACE
- CURE TIME	100% VISUAL	-	VERIFY FULL CURE TIME HAS ELAPSED PRIOR TO APPLICATION OF TORQUE OR LOAD TO ANCHOR

POST-INSTALLED ANCHOR/REINFORCING STEEL TESTING			
ITEM	FREQUENCY	STANDARD	CRITERIA
EXPANSION ANCHORS, SLEEVE ANCHORS, SCREW ANCHORS			
- TORQUE TEST	100%	-	TEST ANCHOR WITH CALIBRATED TORQUE WRENCH TO 100% OF THE INSTALLATION TORQUE NOTED IN ICC-ES REPORT. ATTAIN SPECIFIED TORQUE WITHIN 1/2 TURN OF THE NUT
ADHESIVE ANCHORS, REINFORCING STEEL ANCHORED INTO HARDENED CONCRETE			
- TENSION TEST	FIRST 3 AND 1% OF REMAINING	ASTM E488 STATIC TENSION	TEST THE INSTALLATION OF THE FIRST 3 OF EACH TYPE, BASE MATERIAL, AND POSITION (DOWN, HORIZONTAL, OVERHEAD). OBSERVE ASTM E488 MINIMUM EDGE DISTANCES FOR DETERMINING TEST LOCATIONS. SUBMIT PROPOSED TEST LOCATIONS AND REQUESTS FOR REQUIRED TENSION TEST LOAD VALUES TO ENGINEER

STRUCTURAL CONCRETE TESTING			
ITEM	FREQUENCY	STANDARD	CRITERIA
REINFORCING STEEL, BOLTS AND EMBEDMENTS			
- WELDING	-	-	PER STRUCTURAL STEEL TESTING
CONCRETE			
- COMPOSITE SAMPLE			
1. $f_c < 5000$ PSI	100 CY/MIX/DAY	ASTM C172	OBTAIN AT POINT OF PLACEMENT. FOR DRILLED PIERS OBTAIN NEAR BEGINNING OF LOAD PRIOR TO PLACEMENT IN SHAFT. ADJUST FREQUENCY AS REQUIRED TO PROVIDE MINIMUM 5 TOTAL TESTS PER MIX BUT NOT MORE THAN ONE SAMPLE PER TRUCK LOAD
2. $f_c \geq 5000$ PSI AND SHOTCRETE	50 CY/MIX/DAY		
- SLUMP/SLUMP FLOW	EACH COMPOSITE SAMPLE	ASTM C143 (SLUMP) OR ASTM C1611 (SLUMP FLOW)	SPECIFIED SLUMP SHALL BE AS SUBMITTED IN THE MIX DESIGN $\pm 1\frac{1}{2}$ ". PERFORM ADDITIONAL TESTS WHEN CONCRETE CONSISTENCY APPEARS TO CHANGE
- AIR CONTENT WHEN AIR ENTRAINMENT IS SPECIFIED AND LIGHTWEIGHT CONCRETE	EACH COMPOSITE SAMPLE	ASTM C231 PRESSURE METHOD (NWC) OR ASTM C173 VOLUMETRIC METHOD (LWC)	-
- TEMPERATURE	EACH COMPOSITE SAMPLE AND 60 MINUTE INTERVALS	ASTM C1064	REQUIRED WHEN AIR TEMPERATURE IS 40 °F AND BELOW OR 80°F AND ABOVE
- UNIT WEIGHT FOR STRUCTURAL LIGHTWEIGHT	EACH COMPOSITE SAMPLE	ASTM C138	-
- COLD WEATHER CURING	-	ASTM C1074	RECORD MAXIMUM AND MINIMUM CONCRETE TEMPERATURE DURING CURING PERIOD, WHEN DAILY AVERAGE AIR TEMPERATURE OF 40 °F OR BELOW IS EXPECTED FOR 3 SUCCESSIVE DAYS DURING CURING PERIOD
- COMPRESSIVE STRENGTH	EACH COMPOSITE SAMPLE	ASTM C31 ASTM C39 EITHER: (4)6x12 OR (6)4x8 CYLINDERS	TEST PER SCHEDULE BELOW: - 7 DAYS: (1) 6x12 OR (1) 4x8 - 28 DAYS: (2) 6x12 OR (3) 4x8 - 56 DAYS: (1) 6x12 OR (2) 4x8 (IF 28 DAY TESTS DO NOT ACHIEVE SPECIFIED 28 DAY STRENGTH) ACCEPTANCE CRITERIA PER ACI 318
SHOTCRETE (ADDITIONAL REQUIREMENTS)			
- COMPRESSIVE	-	IBC 2018 - 1908.10	-
- CURING	-	IBC 2018 - 1908.9	-
FLOOR FLATNESS REQUIREMENTS			
- MEASURE CONCRETE FLOOR FLATNESS (FF) AND FLOOR LEVELNESS (FL)	-	ASTM E1155	PERFORM MEASUREMENTS WITHIN 48 HOURS OF FINISHING OPERATIONS AND PRIOR TO REMOVAL OF SHORES OR FORMS. MEASURE AREAS INDICATED IN THE SPECIFICATIONS

STRUCTURAL CONCRETE TESTING NOTES:

- NONDESTRUCTIVE TESTING MAY BE PERMITTED BY THE ARCHITECT, BUT WILL NOT BE USED AS SOLE BASIS FOR APPROVAL OR REJECTION OF DEFICIENT CONCRETE.
- REPORTS OF COMPRESSIVE STRENGTH TESTS SHALL CONTAIN THE FOLLOWING INFORMATION: DATE OF CONCRETE PLACEMENT, LOCATION OF CONCRETE BATCH IN WORK, DESIGN 28-DAY COMPRESSIVE STRENGTH, SLUMP, CONCRETE SUPPLIER AND MIXTURE ID NUMBER, TIME OF BATCH AND PLACEMENT, AMBIENT AIR TEMPERATURE, SITE ADDED WATER AND ADMIXTURES, UNIT WEIGHT, AND AS REQUIRED BY ASTM C39.

STRUCTURAL CONCRETE SPECIAL INSPECTIONS			
ITEM	FREQUENCY	STANDARD	CRITERIA
REINFORCING STEEL			
- DURING PLACEMENT	P	ACI 301-16 3.2.3.3	VERIFY GRADE, FINISH, SIZE, BAR QUANTITY, LOCATION, SPACING, COVER, HOOK LENGTHS, SPLICE LENGTH, SPLICE LOCATIONS, BEND DIAMETERS, COATING, SURFACE CONDITION, AND SUPPORT
- PRIOR TO PLACEMENT OF CONCRETE	100%		
- WELDING	C	AWS D1.4	VERIFY ASTM A706 REINFORCING STEEL
- FIELD BENDING	P	ACI 301-16 3.3.2.8	-
- COATED REINFORCING	P	ACI 301-16 3.2.1.2	-
- MECHANICAL CONNECTORS	C	ICC-ES REPORT	-
BOLTS AND EMBEDMENTS			
- PRIOR TO PLACEMENT OF CONCRETE	100%	-	VERIFY TYPE, FINISH, DIAMETER, LENGTH, QUANTITY, EMBEDMENT LENGTH, SPACING AND EDGE DISTANCES. VERIFY USE OF PLACING TEMPLATE WHERE SPECIFIED
- WELDING	-	-	INSPECT PER THE STRUCTURAL STEEL TABLE
CONCRETE			
- MIX DESIGN	EACH TRUCK	-	VERIFY USE OF APPROVED DESIGN MIXTURE FOR EACH TRUCK LOAD
- FORMWORK PRIOR TO PLACEMENT OF CONCRETE	P	ACI 301-16 2.2.2.3	INSPECT FIRST POUR OF EACH TYPE (GRADE, BEAM, COLUMN, STRUCTURAL SLAB, SLAB-ON-DECK, ETC.)
- PLACEMENT OF CONCRETE	C	ACI 301-16 5.3.2	-
- CURING	P	ACI 301-16 5.3.6	-
- SHORE/FORM REMOVAL	P	ACI 301-16 2.3.2	FOR BEAMS AND STRUCTURAL SLABS

QUALITY ASSURANCE GENERAL NOTES			
STATEMENT OF STRUCTURAL SPECIAL INSPECTIONS AND TESTING			
1. GENERAL: A. SCOPE OF WORK <ul style="list-style-type: none">THE OWNER WILL ENGAGE A QUALIFIED INSPECTION AND TESTING AGENCY(S) TO PERFORM SPECIAL INSPECTIONS AND TESTING FOR ALL STRUCTURAL MEMBERS AND ASSEMBLIES AS NOTED HEREIN.SPECIAL INSPECTIONS AND TESTING INCLUDE THE ADDITIONAL STRUCTURAL SPECIAL INSPECTION AND TESTING REQUIREMENTS FOR SEISMIC AND/OR WIND RESISTANCE.SPECIAL INSPECTIONS ARE IN ADDITION TO INSPECTIONS BY THE AUTHORITY HAVING JURISDICTION REQUIRED BY IBC 2018 SECTION 110.REFER TO THE SPECIFICATIONS FOR REPORTING AND PROCEDURAL REQUIREMENTS FOR QUALITY ASSURANCE AND QUALITY CONTROL.REFER TO ARCH/MECH/ELEC/CIVIL SPECIFICATIONS AND DRAWINGS FOR ADDITIONAL SPECIAL INSPECTION AND TESTING THAT MAY BE REQUIRED. B. SPECIAL INSPECTIONS AND TESTING ARE APPLICABLE TO ALL REVISIONS AND/OR FUTURE WORK ADDED BY AMENDMENTS TO THESE DOCUMENTS. C. DEFINITIONS <ul style="list-style-type: none">SPECIAL INSPECTOR: THE AGENCY ENGAGED BY THE OWNER AND APPROVED BY THE AUTHORITY HAVING JURISDICTION TO ACT AS THE DESIGNATED REPRESENTATIVE TO PERFORM INSPECTIONS.SPECIAL INSPECTION: INSPECTION PERFORMED BY THE SPECIAL INSPECTOR ACCORDING TO IBC 2018 SECTION 1704 TO ENSURE COMPLIANCE WITH APPROVED CONSTRUCTION DOCUMENTS AND REFERENCED STANDARDS.(P) PERIODIC INSPECTION: THE PART-TIME OR INTERMITTENT OBSERVATION BY THE SPECIAL INSPECTOR OF WORK BEING PERFORMED. SPECIAL INSPECTOR SHALL BE PRESENT IN THE AREA WHERE THE WORK IS BEING PERFORMED. OBSERVATION OF ALL WORK (100% VISUAL) SHALL BE MADE AT THE COMPLETION OF THE WORK.(C) CONTINUOUS INSPECTION: THE FULL-TIME OBSERVATION BY THE SPECIAL INSPECTOR OF WORK BEING PERFORMED. SPECIAL INSPECTOR SHALL BE PRESENT IN THE AREA WHERE THE WORK IS BEING PERFORMED. OBSERVATION OF ALL WORK (100% VISUAL) SHALL BE MADE AT THE COMPLETION OF THE WORK. D. DEFICIENCIES IN WORK <ul style="list-style-type: none">CORRECT DEFICIENCIES IN WORK THAT TESTS AND INSPECTIONS INDICATE DO NOT COMPLY WITH THE CONTRACT DOCUMENTS AND REFERENCED STANDARDS.ALL COST OF ADDITIONAL TESTING AND/OR INSPECTIONS FOR CORRECTIVE WORK SHALL BE BORNE BY THE CONTRACTOR.			
2. SHOP FABRICATIONS: A. GENERAL <ul style="list-style-type: none">PERFORM INSPECTIONS AND TESTING FOR ALL SHOP FABRICATED STRUCTURAL MEMBERS AND ASSEMBLIES AS NOTED HEREIN. SPECIAL INSPECTOR SHALL PERFORM SPECIAL INSPECTIONS AND TESTING UNLESS THE FABRICATOR IS REGISTERED AND APPROVED BY THE AUTHORITY HAVING JURISDICTION TO PERFORM SUCH WORK WITHOUT SPECIAL INSPECTION OR FABRICATION HAS A CURRENT ICC-ES EVALUATION REPORT. THE AUTHORITY HAVING JURISDICTION HAS APPROVED FABRICATORS PARTICIPATING IN THE AISC CERTIFICATION PROGRAM AND DESIGNATED AS AN AISC CERTIFIED PLANT, CATEGORY STD.SPECIAL INSPECTOR SHALL VERIFY THE FABRICATOR MAINTAINS AND FOLLOWS DETAILED SHOP FABRICATION AND QUALITY CONTROL PROCEDURES, UNLESS FABRICATOR IS REGISTERED AND APPROVED.AT THE COMPLETION OF FABRICATION, THE APPROVED FABRICATOR SHALL SUBMIT A CERTIFICATE OF COMPLIANCE TO THE AUTHORITY HAVING JURISDICTION ACCORDING TO IBC 2018 SECTION 1704.2.5.1.APPROVED FABRICATORS MAY PERFORM TESTING NOTED HEREIN EXCEPT THAT NONDESTRUCTIVE TESTING (NDT) SHALL ONLY BE PERFORMED BY PERSONNEL WITH QUALIFICATIONS THAT MEET OR EXCEED THE CRITERIA OF AWS D1.1 SUBCLAUSE 6.14.6 AND AMERICAN SOCIETY FOR NONDESTRUCTIVE TESTING (ASNT) SNT-TC-1A OR ASNT CP-189. B. SHOP FABRICATIONS INCLUDED <ul style="list-style-type: none">SHOP FABRICATED STRUCTURAL STEEL INCLUDING STAIRS AND RAILING ELEMENTSSHOP FABRICATED COLD FORMED STEEL ELEMENTS			

SOILS SPECIAL INSPECTIONS			
ITEM	FREQUENCY	STANDARD	CRITERIA
SUBGRADE			
- EXCAVATION	P	-	VERIFY EXCAVATIONS ARE EXTENDED TO THE PROPER DEPTH AND HAVE REACHED THE PROPER BEARING MATERIAL
- BEARING MATERIAL	P	SOILS REPORT	VERIFY BEARING MATERIAL IS ADEQUATE TO ACHIEVE THE DESIGN BEARING CAPACITY
- RAMMED AGGREGATE PIERS	SPEC	SPEC	REFER TO THE SPECIFICATION FOR QUALITY ASSURANCE AND QUALITY CONTROL REQUIREMENTS FOR RAMMED AGGREGATE PIERS
CONTROLLED FILL			
- PRIOR TO PLACEMENT	P	-	VERIFY SUBGRADE HAS BEEN PROPERLY PREPARED
- PLACEMENT	C	-	VERIFY USE OF PROPER MATERIALS, DENSITIES, COMPACTION, AND LIFT THICKNESSES

SOILS SPECIAL INSPECTION NOTES:

- SEE CIVIL DRAWINGS AND/OR SPECIFICATIONS FOR ADDITIONAL EARTHWORK AND UTILITY INSPECTION REQUIREMENTS.
- SEE CIVIL DRAWINGS AND/OR SPECIFICATIONS FOR CLASSIFICATION AND TESTING REQUIREMENTS FOR COMPACTED FILL AND/OR CONTROLLED LOW-STRENGTH MATERIAL.



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Date	Description
- 2021.05.19	BP3: PROMENADE - ISSUE FOR CONSTRUCTION PERMIT

**RCRBD
Record Set
TC
07/10/2021**

Project Name
SSRC BASE AREA IMPROVEMENTS
Project Number
20.1411.S.01
Description
QUALITY ASSURANCE

Scale
12" = 1'-0"

1A-S0.10

MIL JOB # - 201411.S.01
DESIGNER: NC, MARTIN
PRINCIPAL: KELLY KNOWLES
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LEAD REVIT TECH: COLIN KNOWLES
PROJECT MANAGER: C. A. CHEN

STRUCTURAL COLD FORMED STEEL DECK SPECIAL INSPECTIONS			
ITEM	FREQUENCY	STANDARD	CRITERIA
PRIOR TO DECK PLACEMENT			
- VERIFY COMPLIANCE OF MATERIALS (DECK AND ALL DECK ACCESSORIES) WITH CONSTRUCTION DOCUMENTS, INCLUDING PROFILES, MATERIAL PROPERTIES, AND BASE METAL THICKNESS	PERFORM	SDI QA/QC-2011	-
- DOCUMENT ACCEPTANCE OR REJECTION OF DECK AND DECK ACCESSORIES	PERFORM	SDI QA/QC-2011	-
PRIOR TO WELDING			
- WELDING PROCEDURE SPECIFICATION (WPS) AVAILABLE	OBSERVE	SDI QA/QC-2011	-
- MANUFACTURER CERTIFICATIONS OF WELDING CONSUMABLES AVAILABLE	OBSERVE	SDI QA/QC-2011	-
- MATERIAL IDENTIFICATION (TYPE/GRADE)	OBSERVE	SDI QA/QC-2011	-
- CHECKING WELDING EQUIPMENT	OBSERVE	SDI QA/QC-2011	-
PRIOR TO MECHANICAL FASTENING (SCREWS AND PAFs)			
- MANUFACTURER INSTALLATION INSTRUCTIONS ARE AVAILABLE FOR MECHANICAL FASTENERS	OBSERVE	SDI QA/QC-2011	-
- PROPER TOOLS AVAILABLE FOR FASTENER INSTALLATIONS	OBSERVE	SDI QA/QC-2011	-
- PROPER STORAGE FOR MECHANICAL FASTENERS	OBSERVE	SDI QA/QC-2011	-
DURING DECK INSTALLATION			
DURING WELDING DECK CONNECTION INSTALLATION			
- USE OF QUALIFIED WELDERS		SDI QA/QC-2011	-
- CONTROL AND HANDLING OF WELDING CONSUMABLES	OBSERVE	SDI QA/QC-2011	-
- ENVIRONMENTAL CONDITIONS (WIND SPEED, MOISTURE, TEMPERATURE)	OBSERVE	SDI QA/QC-2011	-
- WPS FOLLOWED	OBSERVE	SDI QA/QC-2011	-
DURING MECHANICAL DECK CONNECTION INSTALLATION			
- FASTENING (SCREWS AND PAFs)	OBSERVE	SDI QA/QC-2011	-
- FASTENERS ARE POSITIONED AS REQUIRED	OBSERVE	SDI QA/QC-2011	-
- FASTENERS ARE INSTALLED IN ACCORDANCE WITH MANUFACTURER'S INSTRUCTIONS	OBSERVE	SDI QA/QC-2011	-
AFTER DECK PLACEMENT			
- VERIFY COMPLIANCE OF DECK AND ALL DECK ACCESSORIES INSTALLATION COMPLY WITH CONSTRUCTION DOCUMENTS	PERFORM	SDI QA/QC-2011	-
- VERIFY DECK MATERIALS ARE REPRESENTED BY THE MILL CERTIFICATIONS THAT COMPLY WITH THE CONSTRUCTION DOCUMENTS	PERFORM	SDI QA/QC-2011	-
- DOCUMENT ACCEPTANCE OR REJECTION OF THE INSTALLATION OF DECK AND DECK ACCESSORIES	PERFORM	SDI QA/QC-2011	VERIFY CUTS OR NOTCHES THROUGH DECK ARE REPAIRED
AFTER WELDING			
- VERIFY SIZE AND LOCATION OF WELDS, INCLUDING SUPPORT, SIDELAP, AND PERIMETER WELDS	PERFORM	AWS D1.3, SDI C, SDI NC, SDI RD	-
- WELDS MEET VISUAL ACCEPTANCE CRITERIA	PERFORM	AWS D1.3, SDI C, SDI NC, SDI RD	-
- VERIFY REPAIR ACTIVITIES	PERFORM	AWS D1.3, SDI C, SDI NC, SDI RD	VERIFY WELDED AREAS ARE TREATED WITH APPROVED TREATMENT TO MATCH CORROSION RESISTANCE OF AFFECTED AREA
- DOCUMENT ACCEPTANCE OR REJECTION OF WELDS	PERFORM	AWS D1.3, SDI C, SDI NC, SDI RD	-
AFTER MECHANICAL FASTENING (SCREWS AND PAFs)			
- CHECK SPACING, TYPE, DIAMETER, AND INSTALLATION OF SUPPORT, SIDELAP, AND PERFORM PERIMETER FASTENERS	PERFORM	SDI C, SDI NC, SDI RD, ICC-ES REPORTS	VERIFY SCREWS ADEQUATELY PENETRATE BASE MATERIAL (3 THREADS MIN). NO POPPED SCREW HEADS OR STRIPPED SCREWS ARE PERMITTED. ALL DAMAGE SCREWS SHALL BE REPLACED. VERIFY PAFs ARE FULLY DRIVEN
- VERIFY REPAIR ACTIVITIES	PERFORM	SDI C, SDI NC, SDI RD	-
- DOCUMENT ACCEPTANCE OR REJECTION OF MECHANICAL FASTENERS	PERFORM	SDI C, SDI NC, SDI RD	VERIFY MATERIALS HAVE BEEN DRAWN TOGETHER

STRUCTURAL STEEL TESTING			
ITEM	FREQUENCY	STANDARD	CRITERIA/REMARKS
WELDING			
- COMPLETE JOINT PENETRATION GROOVE WELDS FOR MATERIAL 5/16" THICK AND GREATER	10%	UT	FREQUENCY SHALL BE INCREASED SHOULD THE REJECT RATE EXCEED 5% FOR AN INDIVIDUAL WELDER, IN ACCORDANCE WITH AISC 360, CHAPTER N.
- THERMALLY CUT SURFACES OF BEAM COPEES AND ACCESS HOLES WHEN MATERIAL THICKNESS EXCEEDS 2 INCHES	100%	MT OR PT	-
- SHEAR CONNECTOR, HEADED ANCHOR STUDS, DEFORMED ANCHOR STUDS, THREADED STUDS	2 BEND TESTS AT START OF EACH SHIFT, 1% BEND TEST, 100% RING TEST	AWS D1.1 SECTION 7	BEND TEST: PER AWS D1.1 BENT STUD (TORQUE TEST FOR THREADED STUDS) ACCEPTANCE CRITERIA: RING TEST: STRIKE WITH HAMMER. IF THE STUD RINGS, STUD IS ACCEPTABLE. IF STUD DOES NOT RING, PERFORM BEND TEST
FRAMING			
- SHAPES EXCEEDING 1 1/2 INCHES THICK, LOADED IN TENSION IN THE THROUGH- THICKNESS	100%	ASTM A898 (LEVEL 1 CRITERIA)	NOT REQUIRED FOR STEEL PRODUCED IN USA. CRITERIA TO BE MET 6 INCHES ABOVE AND BELOW EACH WELD. REQUIRED WHERE NOTED AS 'TTT' IN DRAWINGS
- PLATES EXCEEDING 3/4 INCH, LOADED IN TENSION IN THE THROUGH-THICKNESS DIRECTION IN TEE AND CORNER JOINTS	100%	ASTM A435	NOT REQUIRED FOR STEEL PRODUCED IN USA. ANY DISCONTINUITY CAUSING A TOTAL LOSS OF BACK REFLECTION THAT CANNOT BE CONTAINED WITHIN A CIRCLE 3 INCHES IN DIAMETER SHALL BE REJECTED. REQUIRED WHERE NOTED AS 'TTT' IN DRAWINGS
- EMBEDDED PLATE ASSEMBLIES WITH PLATES EXCEEDING 3/4 INCH	100%	UT	NOT REQUIRED FOR STEEL PRODUCED IN USA. TEST ALONG CENTERLINE OF PLATE WIDTH AFTER WELDING

UT - ULTRASONIC TESTING
MT - MAGNETIC PARTICLE TESTING
PT - PENETRANT TESTING
SFRS - SEISMIC FORCE RESISTING SYSTEM
TTT - TENSION THRU THICKNESS, SEE STR STEEL TESTING

STRUCTURAL STEEL INSPECTIONS			
ITEM	INSPECTION TASK	STANDARD	CRITERIA/REMARKS
- PRIOR TO FABRICATION OR ERECTION	PERFORM	AISC 360, CHAPTER N	REVIEW MATERIAL TEST REPORTS AND CERTIFICATIONS FOR STRUCTURAL STEEL, FASTENERS, ANCHOR RODS, HEADED STUD ANCHORS
PRIOR TO WELDING			
- REVIEW MANUFACTURER CERTIFICATIONS FOR WELDING CONSUMABLES AND WELDING PROCEDURE SPECIFICATIONS	PERFORM	AISC 360, CHAPTER N	-
- FIT UP OF WELDS, INCLUDING JOINT GEOMETRY AND CONFIGURATIONS AND FINISH OF ACCESS HOLES	OBSERVE	AISC 360, CHAPTER N	-
- MATERIAL IDENTIFICATION	OBSERVE	AISC 360, CHAPTER N	-
- WELDER IDENTIFICATION SYSTEM	OBSERVE	AISC 360, CHAPTER N	-
DURING WELDING			
- USE OF QUALIFIED WELDERS	OBSERVE	AISC 360, CHAPTER N	-
- CONTROL AND HANDLING OF WELDING CONSUMABLES	OBSERVE	AISC 360, CHAPTER N	-
- NO WELDING OVER CRACKED TACK WELDS	OBSERVE	AISC 360, CHAPTER N	-
- ENVIRONMENTAL CONDITIONS, AND WPS FOLLOWED	OBSERVE	AISC 360, CHAPTER N	-
- WELDING TECHNIQUES - SINGLE PASS WELDS	OBSERVE	AISC 360, CHAPTER N	-
- WELDING TECHNIQUES - MULTI-PASS WELDS	OBSERVE	AISC 360, CHAPTER N	-
AFTER WELDING			
- WELDS CLEANED	OBSERVE	AISC 360, CHAPTER N	-
- SIZE, LENGTH, AND LOCATION OF WELDS	PERFORM	AISC 360, CHAPTER N	-
- WELDS MEET VISUAL ACCEPTANCE CRITERIA	PERFORM	AISC 360, CHAPTER N, AWS D1.1	WHERE INSPECTOR OBSERVES QUESTIONABLE WELDS, NON-DESTRUCTIVE TESTING SHALL BE PERFORMED
- ARC STRIKES	PERFORM	AISC 360, CHAPTER N	-
- K-AREA	PERFORM	AISC 360, CHAPTER N	-
- REPAIR ACTIVITIES	PERFORM	AISC 360, CHAPTER N	-
- PLACEMENT AND INSTALLATION OF HEADED STUD ANCHORS	PERFORM	AISC 360, CHAPTER N	-
- DOCUMENT ACCEPTANCE OR REJECTION OF WELDED MEMBER OR JOINT	PERFORM	AISC 360, CHAPTER N	-
PRIOR TO BOLTING			
- REVIEW MANUFACTURER CERTIFICATIONS FOR FASTENER MATERIALS	PERFORM	AISC 360, CHAPTER N	-
- FASTENERS MARKS IN ACCORDANCE WITH ASTM REQUIREMENTS	OBSERVE	AISC 360, CHAPTER N	-
- PROPER FASTENERS AND BOLTING PROCEDURE SELECTED FOR JOINT DETAIL	OBSERVE	AISC 360, CHAPTER N	-
- CONNECTING ELEMENTS MEET REQUIREMENTS, INCLUDING HOLE REPAIR AND FAYING SURFACE	OBSERVE	AISC 360, CHAPTER N	-
- PRE-INSTALLATION VERIFICATION TESTING	OBSERVE	AISC 360, CHAPTER N	NOT APPLICABLE FOR SNUG TIGHT JOINTS
- PROPER STORAGE FOR FASTENER COMPONENTS	OBSERVE	AISC 360, CHAPTER N	-
DURING BOLTING			
- FASTENERS PLACED IN ALL HOLES AND POSITIONED AS REQUIRED	OBSERVE	AISC 360, CHAPTER N	-
- PRETENSIONED AND SLIP-CRITICAL JOINTS	OBSERVE	AISC 360, CHAPTER N AND RCSC SPECIFICATION	JOINT BROUGHT IN SNUG-TIGHT CONDITION PRIOR TO PRETENSIONING, FASTENER PREVENTED FROM ROTATING, PRETENSIONED IN PROPER SEQUENCE
- PRETENSIONED AND SLIP-CRITICAL JOINTS USING CALIBRATED WRENCH OR TURN-OF-NUT METHOD WITHOUT MATCH-MARKING	PERFORM	AISC 360, CHAPTER N AND RCSC SPECIFICATION	JOINT BROUGHT IN SNUG-TIGHT CONDITION PRIOR TO PRETENSIONING, FASTENER PREVENTED FROM ROTATING, PRETENSIONED IN PROPER SEQUENCE. INSPECTOR SHALL BE RESENT DURING INSTALLATION OF FASTENERS
AFTER BOLTING			
- DOCUMENT ACCEPTANCE OR REJECTION OF BOLTED CONNECTIONS	PERFORM	DOCUMENT ACCEPTANCE OR REJECTION MEMBER OR JOINT	-

OBSERVE - OBSERVE THESE ITEMS ON A RANDOM BASIS
PERFORM - THESE INSPECTIONS SHALL BE PERFORMED FOR EACH WELDED CONNECTION, EACH BOLTED CONNECTION, AND EACH ITEM, PRIOR TO ACCEPTANCE



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United States
Tel 303.421.6655



May 19, 2021

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△	Date	Description
-	2021.05.19	BP3: PROMENADE - ISSUE FOR PERMIT

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Project Name
SSRC | BASE AREA IMPROVEMENTS
Project Number
20.1411.S.01
Description
QUALITY ASSURANCE

Scale

1A-S0.11



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1A-S1.00



1 LEVEL 01 FRAMING PLAN
1/8" = 1'-0"

PLAN NOTES

GENERAL:
- SEE S0 SERIES SHEETS FOR GENERAL NOTES, SYMBOLS AND ABBREVIATIONS.
- SEE S5 SERIES SHEETS FOR TYPICAL STEEL DETAILS.

1) COLUMNS:
ALL COLUMNS ARE CENTERED ON THE INTERSECTION OF GRIDS UNLESS DIMENSIONED OTHERWISE ON PLAN.

2) STEEL BEAMS:
STEEL BEAMS SHALL BE EQUALLY SPACED BETWEEN GRIDLINES/COLUMNS/GIRDERS UNLESS DIMENSIONED OTHERWISE.
TOP OF STEEL BEAMS SHALL EQUAL BOTTOM OF METAL DECK ELEVATION. SEE PLAN FOR TOP OF CONCRETE ELEVATION AND SLAB THICKNESS TO DETERMINE BOTTOM OF METAL DECK ELEVATION.
REQUIRED BEAM END CONNECTION CAPACITY IN KIPS NOTED ON PLAN THUS: XXX. IF TWO SYMBOLS ARE SHOWN THEY DENOTE THE REQUIRED CONNECTION CAPACITY AT THE CORRESPONDING BEAM END. IF ONLY ONE SYMBOL IS SHOWN IT DENOTES THE REQUIRED CONNECTION CAPACITY AT EACH END OF THE BEAM. DETAIL CONNECTIONS FOR REQUIRED CONNECTION CAPACITY PER SHEET S5.60. ALL BEAM END DRAG CONNECTIONS NOTED ON PLAN HAVE BEEN FACTORED PER THE ASCE 7 STRENGTH DESIGN LOAD COMBINATIONS.
REQUIRED BEAM END DRAG CONNECTION CAPACITY IN KIPS NOTED ON PLAN THUS: XXX. SYMBOLS DENOTE THE REQUIRED CONNECTION CAPACITY AT THE CORRESPONDING BEAM END. DETAIL CONNECTIONS FOR REQUIRED CONNECTION CAPACITY PER SHEETS 1A-S5.00 AND 1A-S5.01. ALL BEAM END CONNECTIONS NOTED ON PLAN HAVE BEEN FACTORED PER THE ASCE 7 STRENGTH DESIGN LOAD COMBINATIONS.

PLACE NUMBER OF SHEAR STUDS INDICATED ON PLAN THUS: [XX] PER DETAIL 11/1A-S5.31. ALL SHEAR STUDS ARE 3/4"Ø. SEE DETAIL 11/1A-S5.31 FOR NET IN-PLACE LENGTH OF SHEAR STUDS.

3) METAL DECK:
SEE SHEETS 1A-S5.31 AND FOR TYPICAL METAL DECK DETAILS.
SEE DETAIL 19/1A-S5.31 FOR DECK SUPPORT FRAMING REQUIRED AT DECK PENETRATIONS WITH ONE SIDE EXCEEDING 10".

4) STRUCTURAL SLAB-ON-DECK:
TOP OF CONCRETE SLAB NOTED ON PLAN THUS:

SUBMIT LOCATIONS OF SLAB CONSTRUCTION JOINTS FOR REVIEW 3 WEEKS (MINIMUM) PRIOR TO PLACEMENT OF CONCRETE. SPACE JOINTS AND POUR SEQUENCES TO MINIMIZE SHRINKAGE CRACKS. SEE "GENERAL NOTES - CONCRETE" FOR JOINTING REQUIREMENTS AT SLAB-ON-DECK.

REINFORCING DETAILS
SEE DETAIL 19/1A-S5.30 FOR ADDITIONAL REINFORCING REQUIRED AT SLAB PENETRATIONS/OPENINGS.

4) MECHANICAL AND ELECTRICAL EQUIPMENT

4A) SEE 20/1A-S5.31 FOR REQUIREMENTS AT MECHANICAL AND ELECTRICAL EQUIPMENT.
4B) CONTRACTOR TO VERIFY ALL EQUIPMENT WEIGHTS, SIZES, LOCATIONS, AND OPENINGS REQUIRED WITH MECHANICAL CONTRACTOR. CONTRACTOR SHALL NOTIFY THE STRUCTURAL ENGINEER OF ANY CHANGES IN THE WEIGHTS OR LOCATIONS SHOWN ON THE DRAWINGS. SUCH CHANGES IN CONDITIONS SHALL BE SUBJECT TO STRUCTURAL ENGINEER REVIEW. RE: MECHANICAL AND ARCHITECTURAL DRAWINGS FOR ADDITIONAL OPENINGS NOT SHOWN.
1C) MECHANICAL EQUIPMENT WEIGHTS, IN KIPS, NOTED ON PLAN THUS: XXX.
MECHANICAL EQUIPMENT WEIGHT SHALL BE EVENLY DISTRIBUTED TO ALL SUPPORTING BEAMS / JOISTS.
EQUIPMENT TO BE PLACED TO BEAR ON TWO BEAMS / JOISTS MINIMUM. EACH SUPPORTING JOIST AND/OR JOIST GIRDER SHALL BE DESIGNED TO SUPPORT A CONCENTRATED LOAD FROM THE MECHANICAL EQUIPMENT. THIS LOAD IS IN ADDITION TO THE JOIST UNIFORM LOADS OR JOIST GIRDER POINT LOADS INDICATED.

KEY PLAN



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Project Name	SSRC BASE AREA IMPROVEMENTS
Project Number	20.1411.S.01
Description	PROMENADE BUILDING - LEVEL 1

Scale	As indicated	Ref North
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1A-S1.01

SHEET NOTES

GENERAL:
- FRAMING ARE FOR SHOWN FOR SCHEMATIC DESIGN PURPOSE.
- SHADED AREA TO BE CONSTRUCTED AS PART OF THE FUTURE PLAZA BUILDING PACKAGE.



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TC
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Project Name

SSRC | BASE AREA
IMPROVEMENTS

Project Number

20.1411.S.01

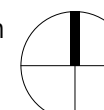
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PROMENADE BUILDING - LEVEL 2
AND ROOF FRAMING PLAN

Scale

As indicated

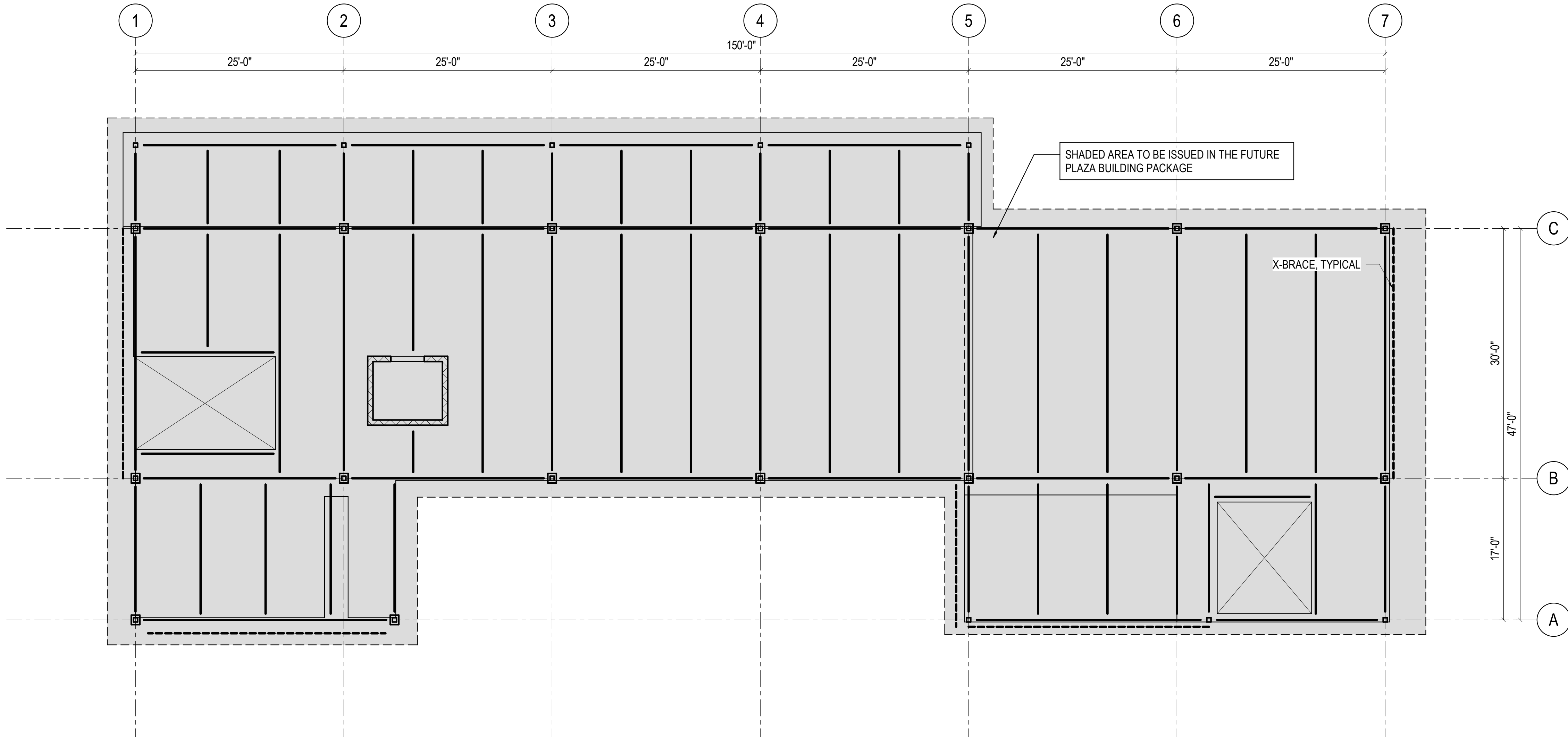
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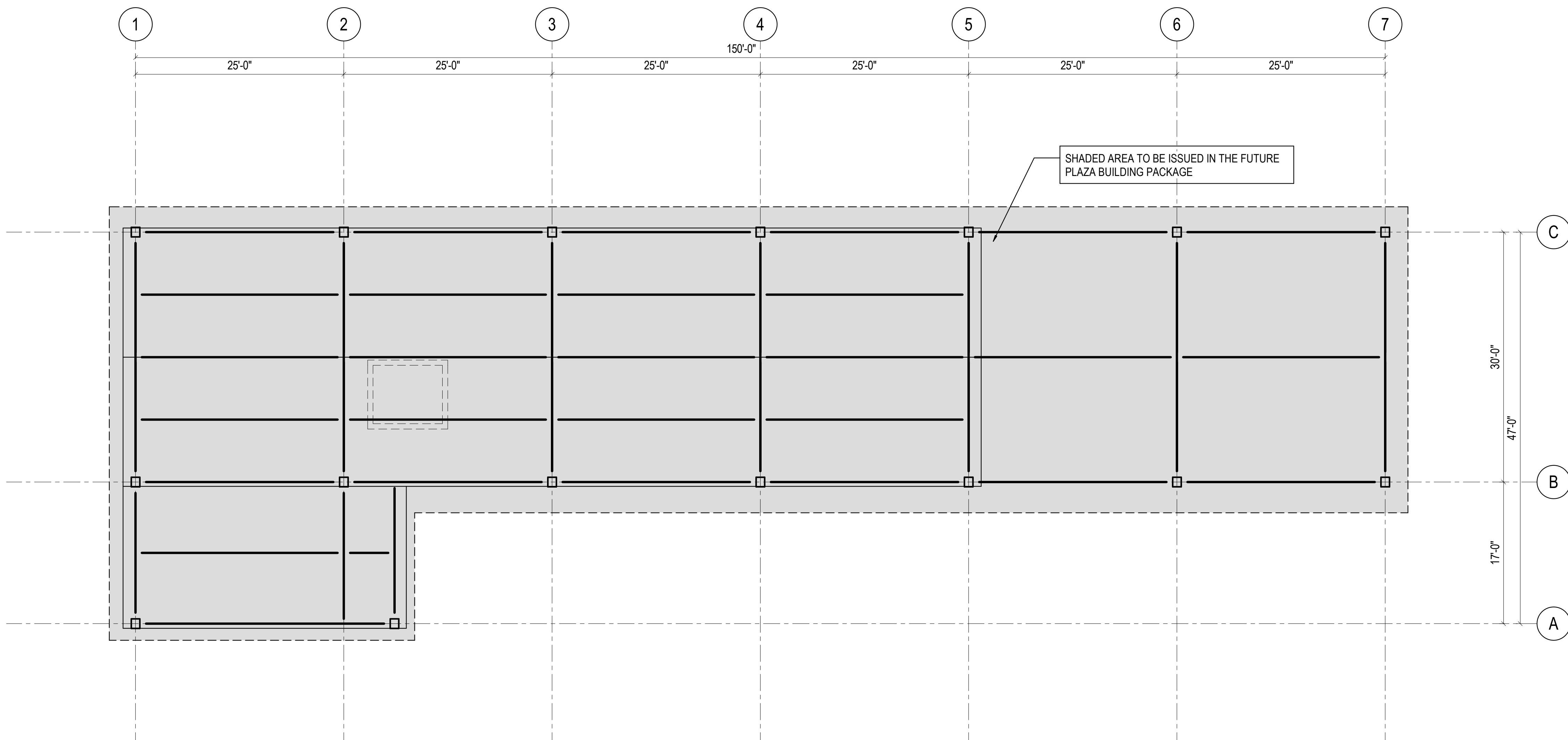
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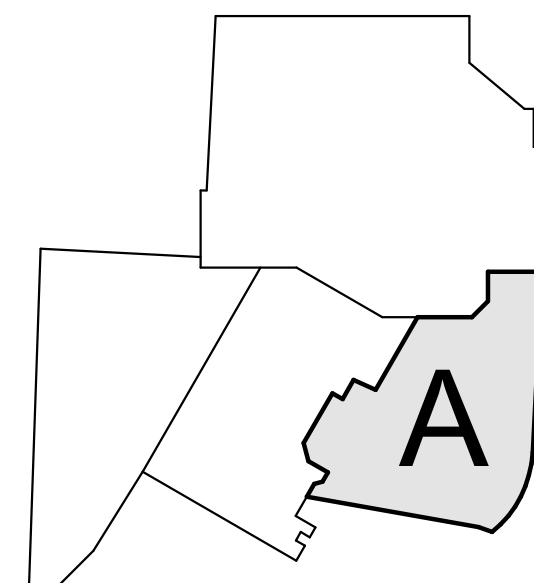


1 FUTURE PLAZA BUILDING - LEVEL 2 FRAMING
1/8" = 1'-0"



2 FUTURE PLAZA BUILDING - ROOF FRAMING
1/8" = 1'-0"

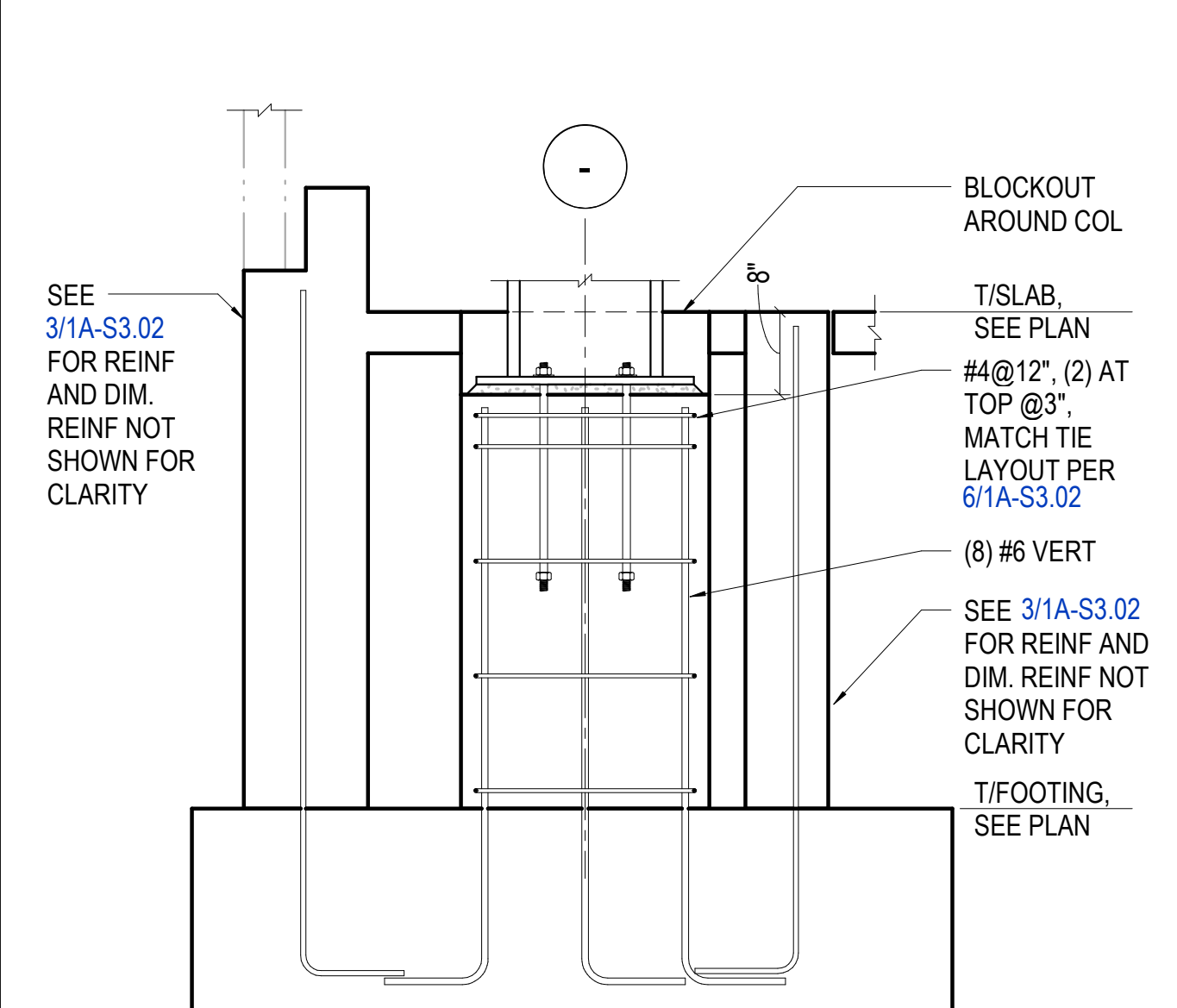
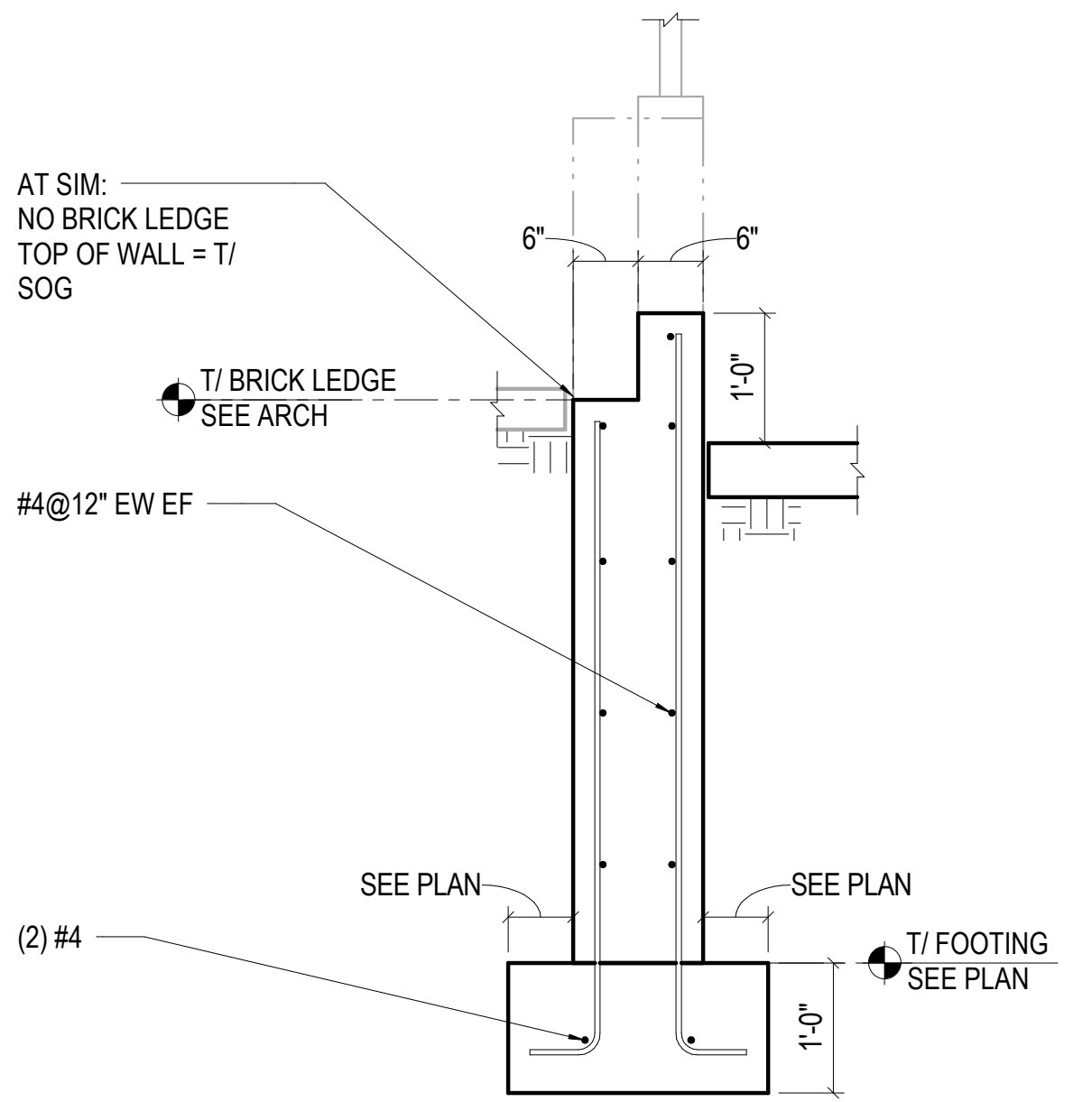
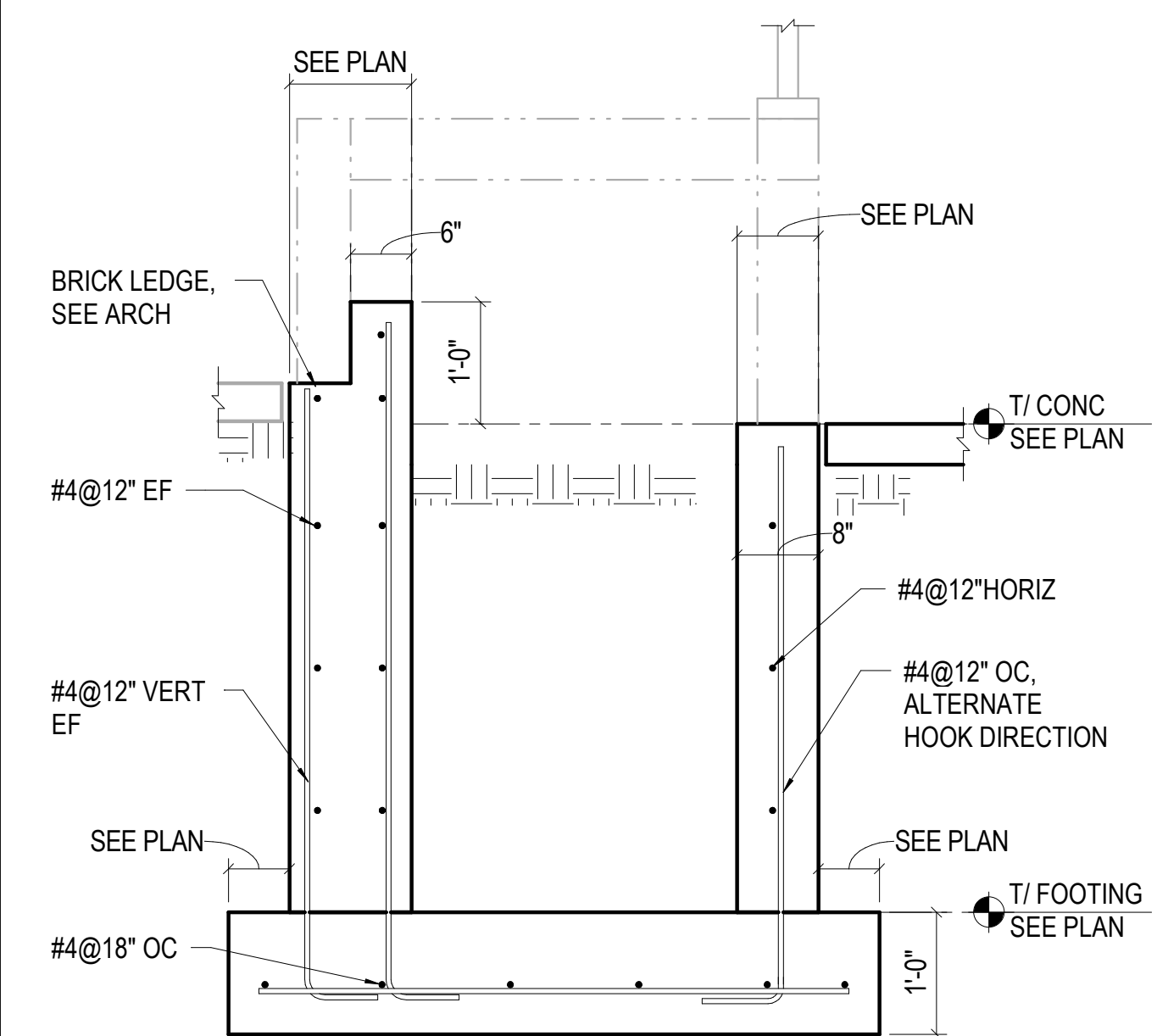
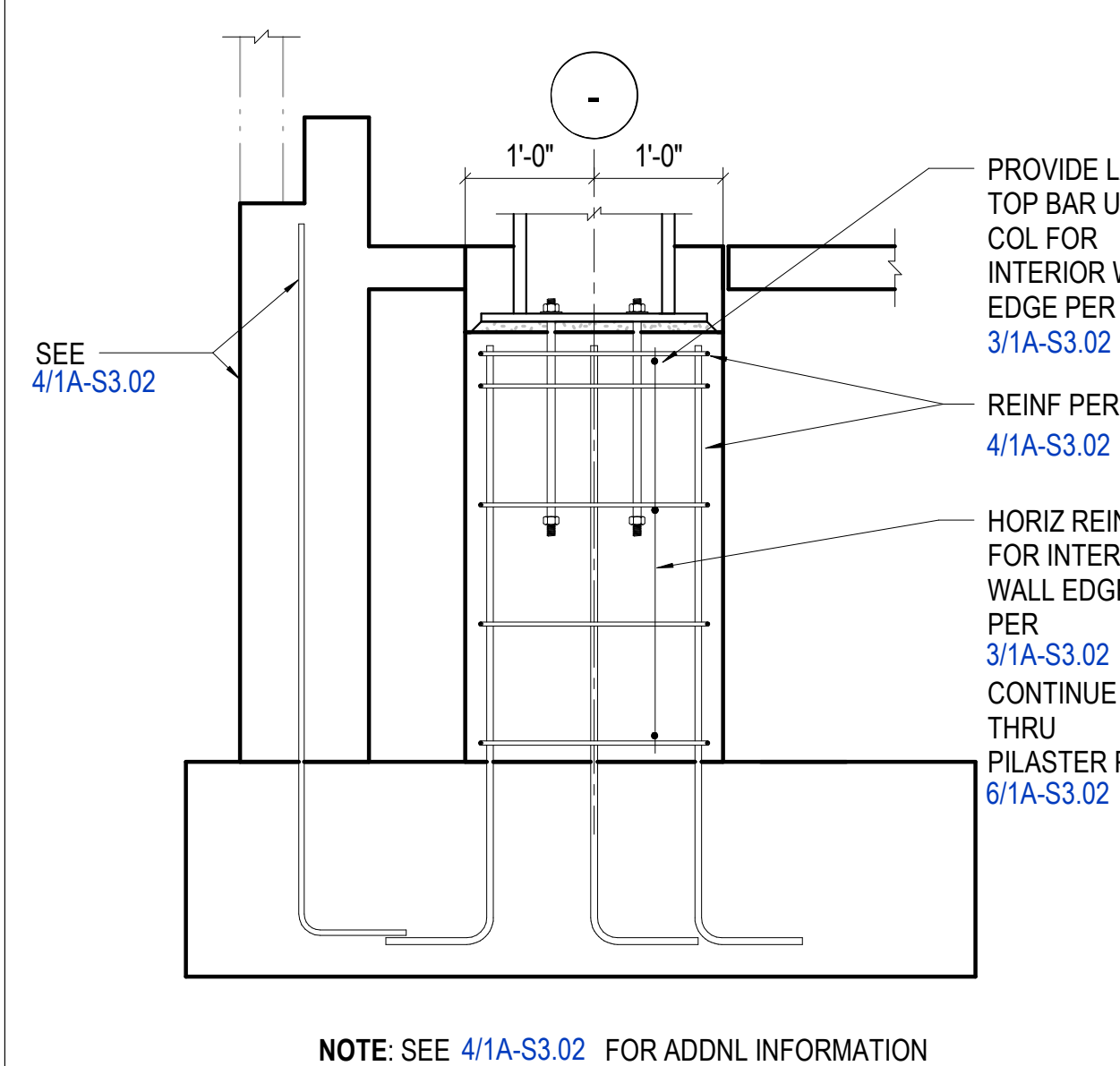
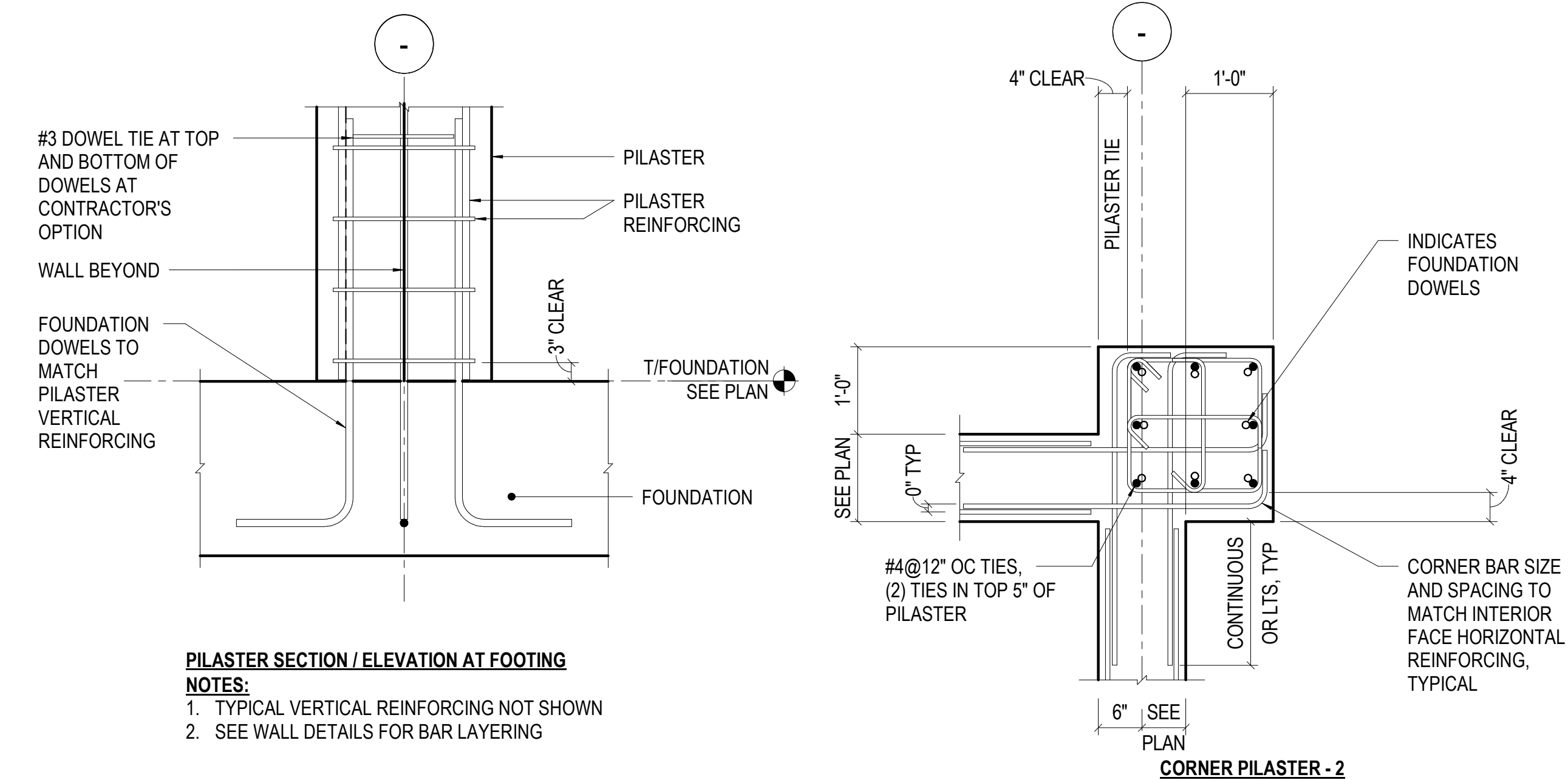
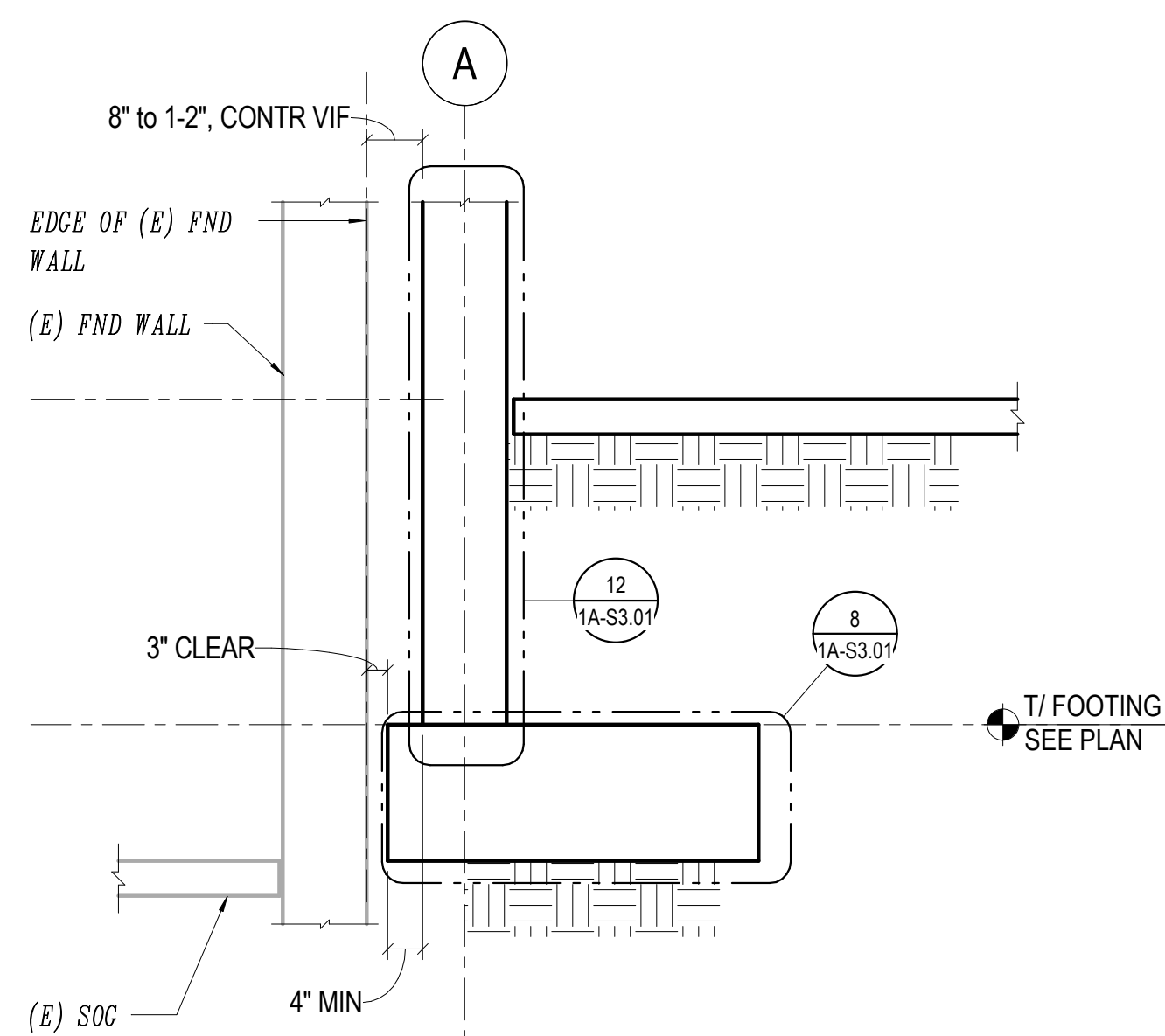
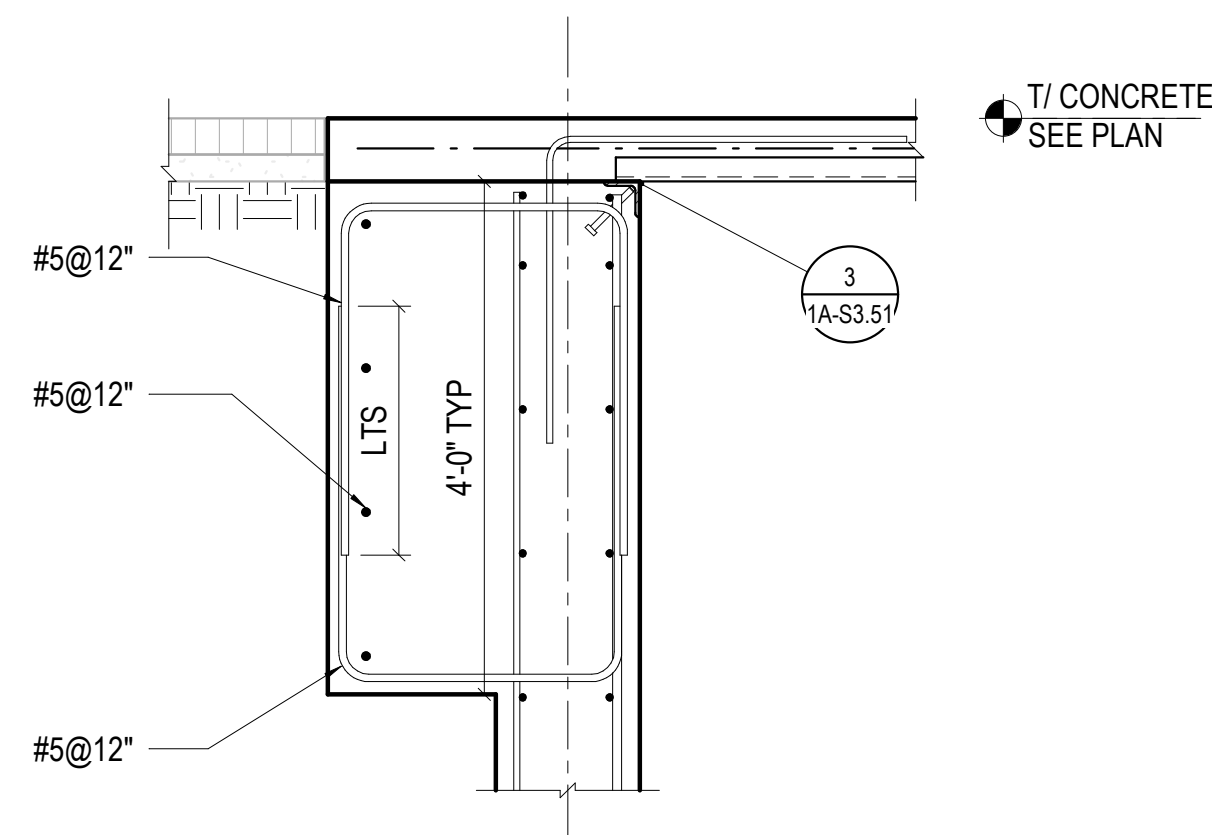
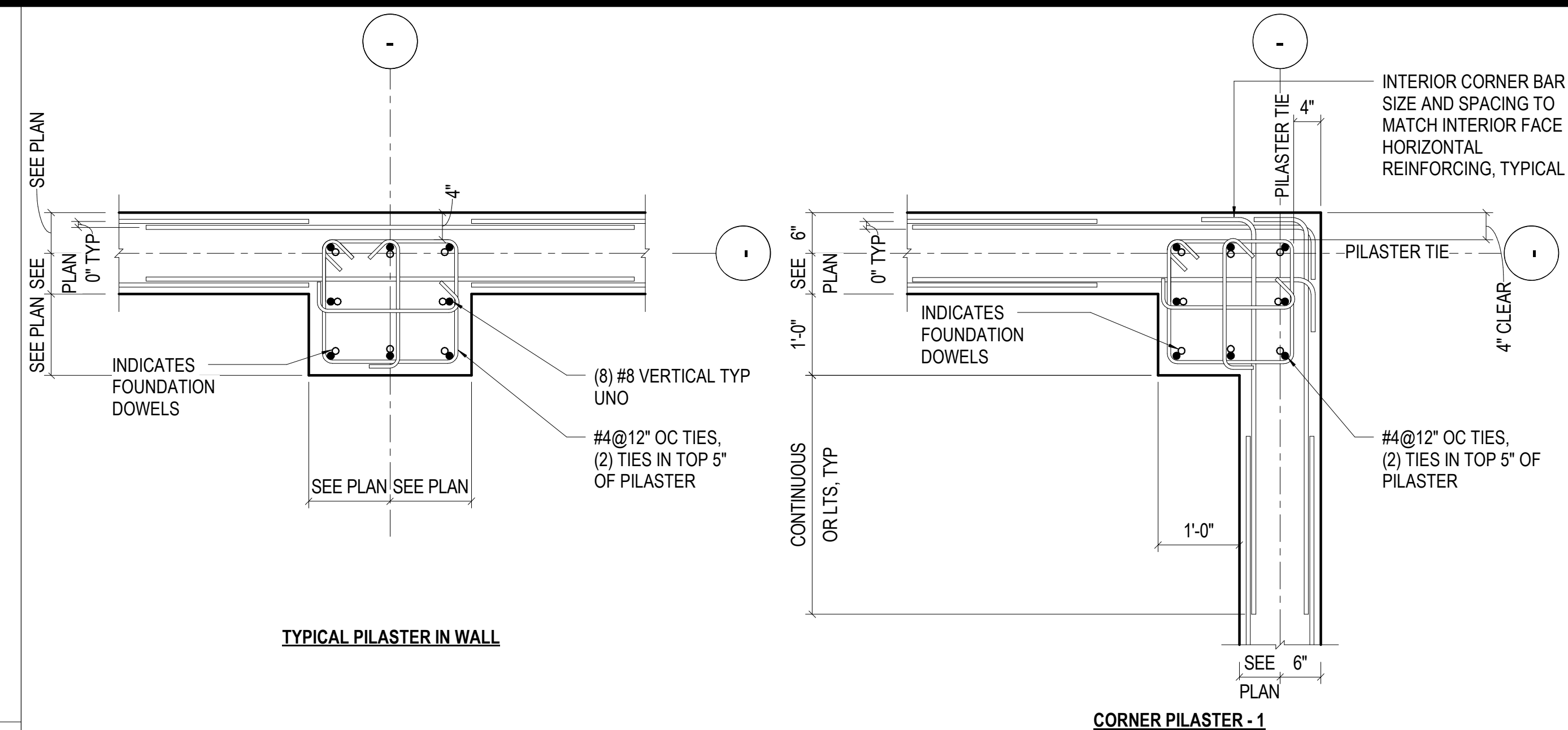
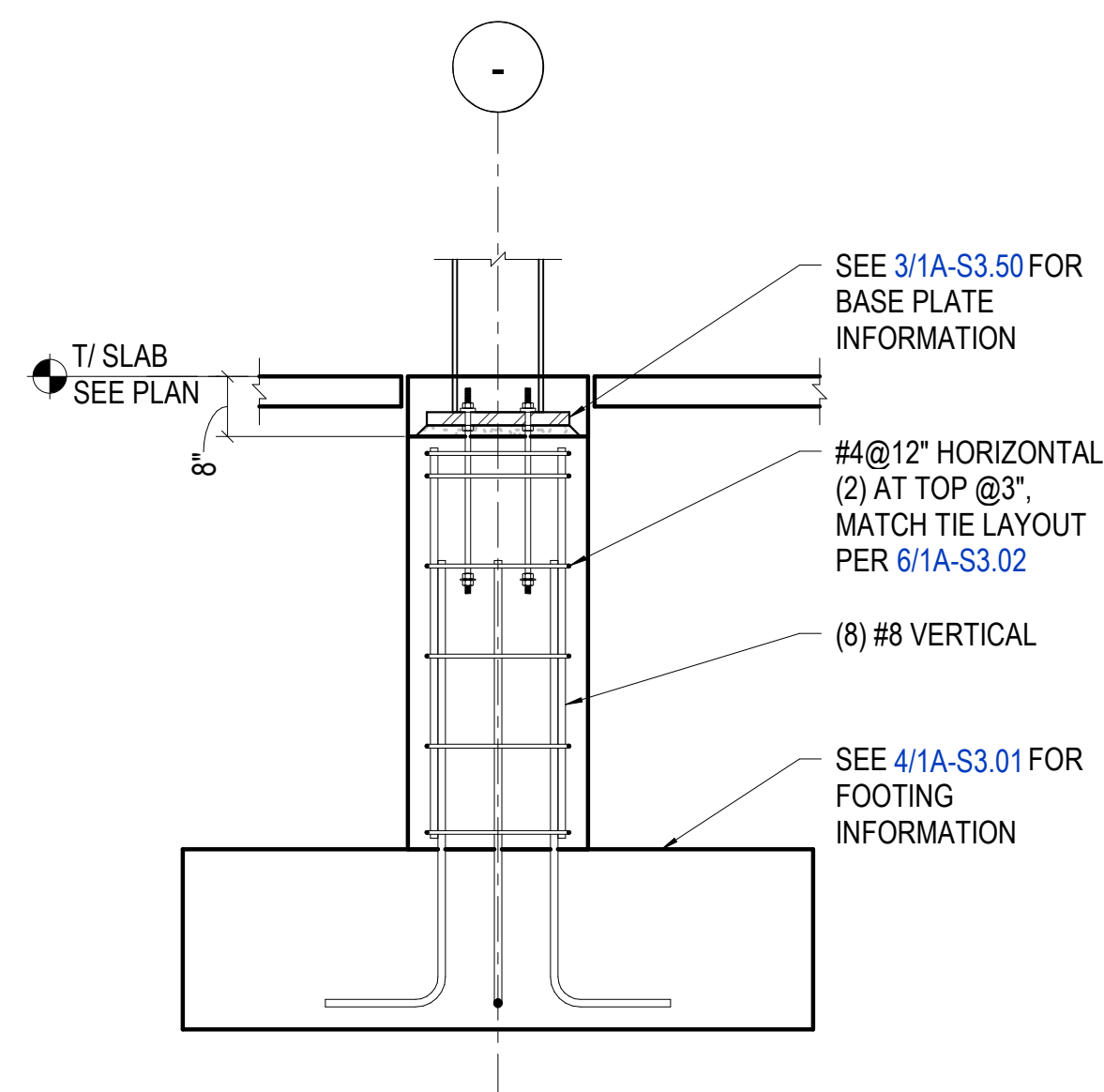
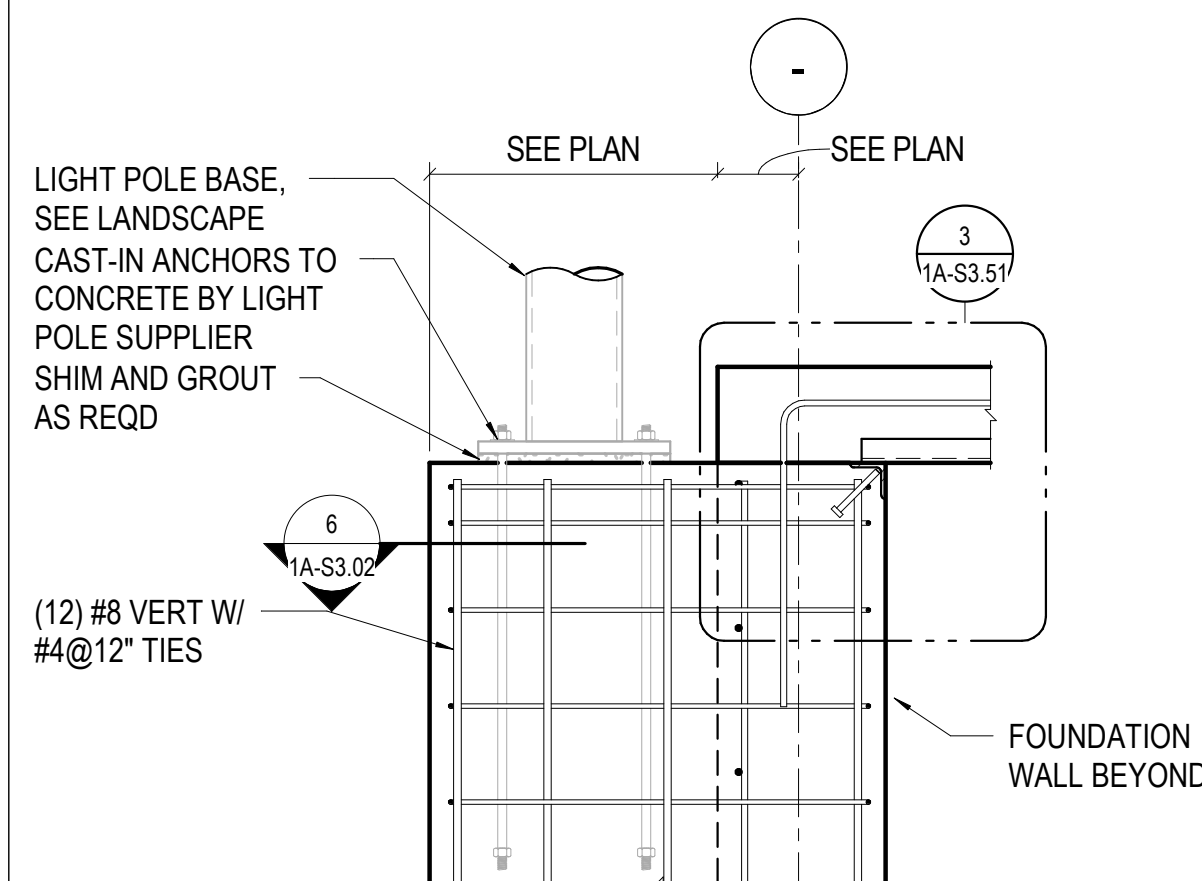
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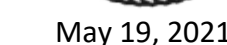


DESIGNER: NC MARTIN
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FILE PATH: S:\20.1411.S.01 - Steamboat\Revit\20.1411.S.01 - Steamboat Building 2021 - 2021.rvt

ML: 029 - 20.1411.S.01
PRINCIPAL: KELLY KNOWLES
FOR K: KELLY KNOWLES
PROJECT MANAGER: C. A. CHEN





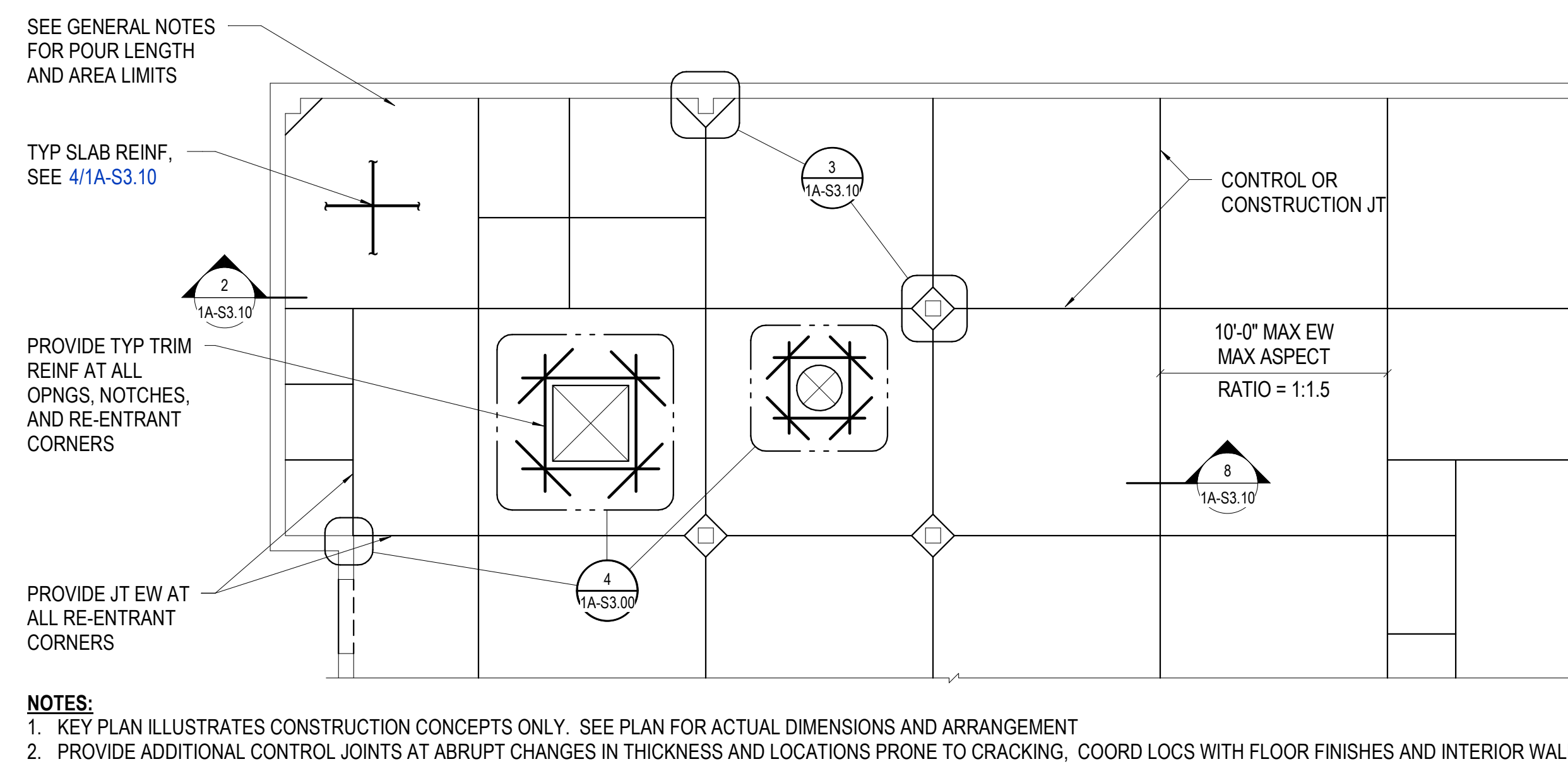


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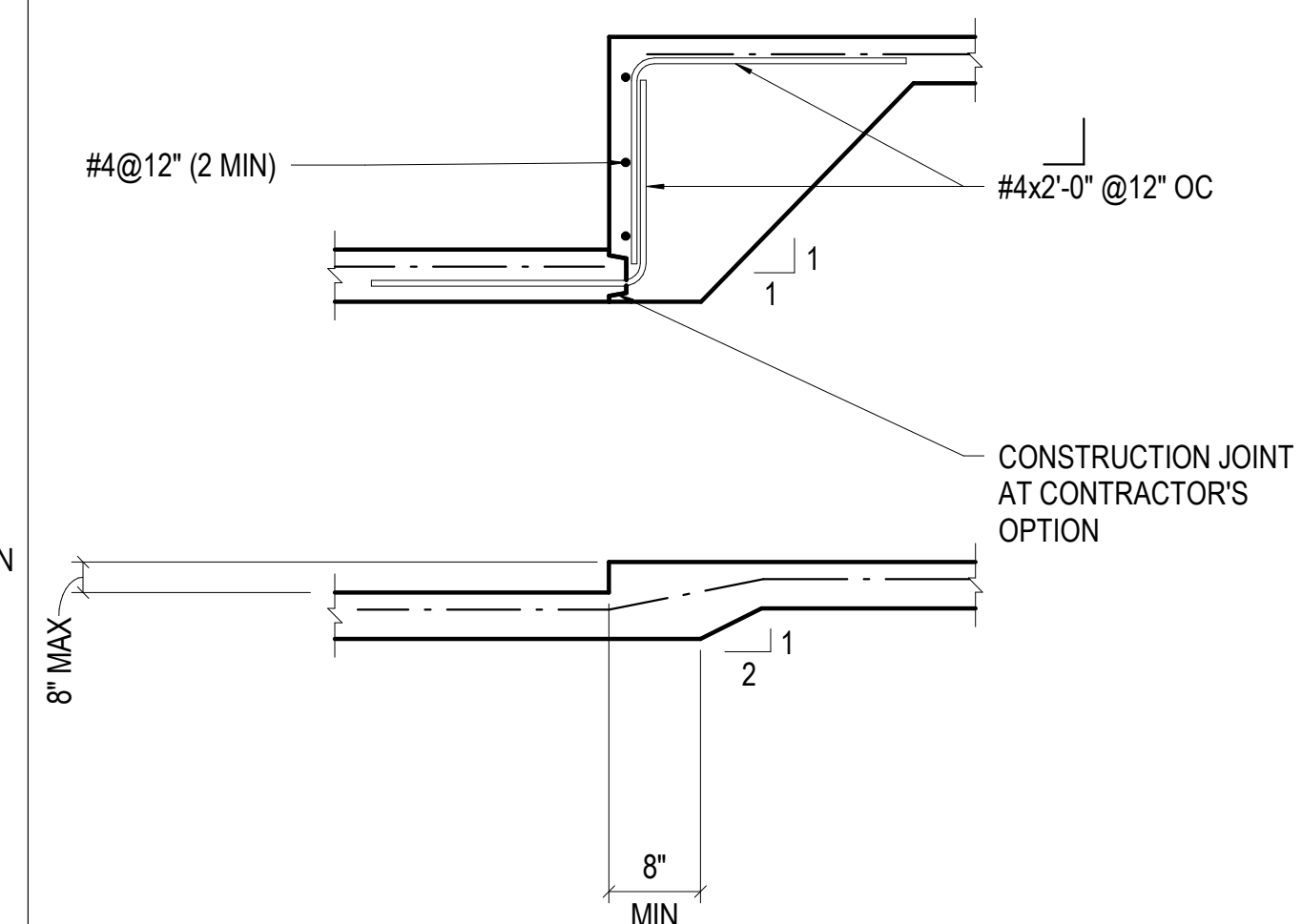
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PRINCIPAL: KELLY KNOWLES
LEAD: KELLY KNOWLES
PROJECT MANAGER: C. A. CHEN



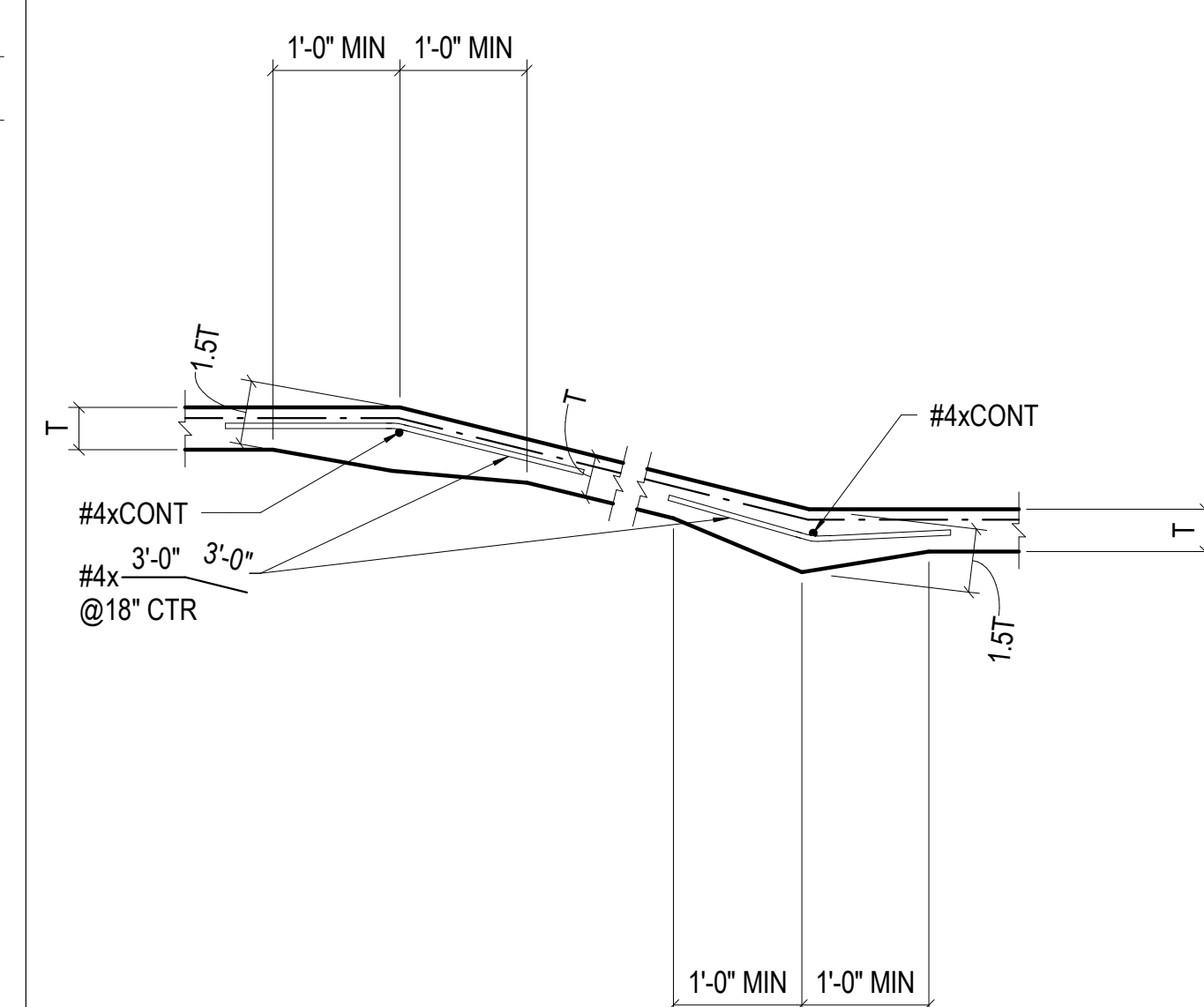
NOTES:

1. KEY PLAN ILLUSTRATES CONSTRUCTION CONCEPTS ONLY. SEE PLAN FOR ACTUAL DIMENSIONS AND ARRANGEMENT
2. PROVIDE ADDITIONAL CONTROL JOINTS AT ABRUPT CHANGES IN THICKNESS AND LOCATIONS PRONE TO CRACKING. COORD LOCs WITH FLOOR FINISHES AND INTERIOR WALLS.

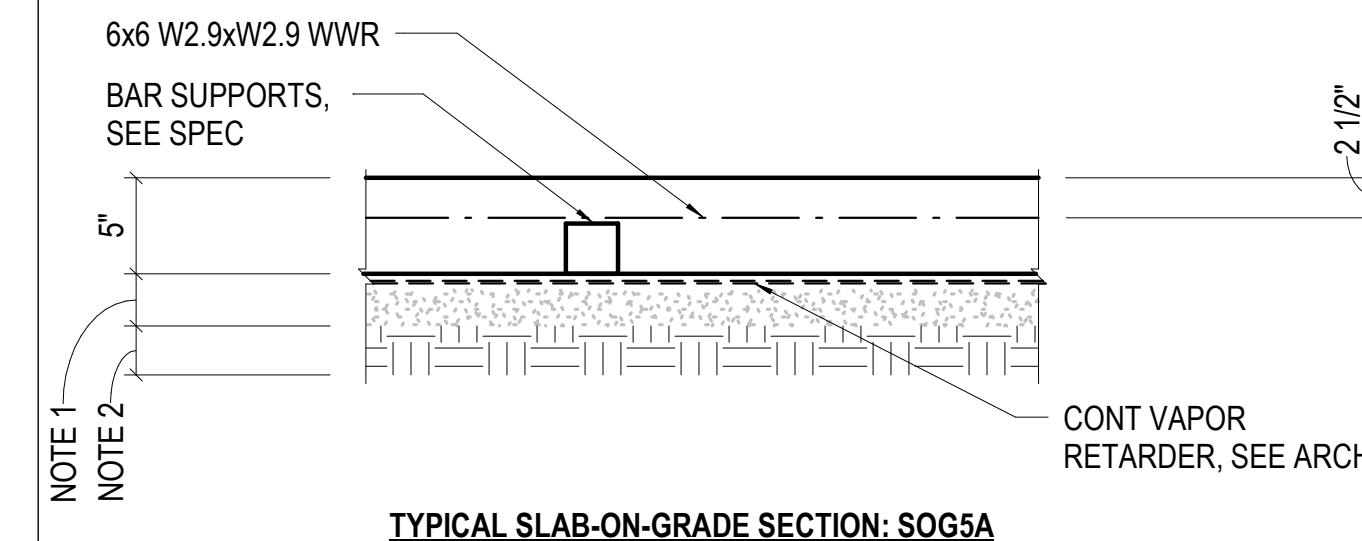
5	NO SCALE	TYP SOG KEY PLAN
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2	1 1/2" = 1'-0" TYP SOG ISOLATION JOINT
---	--



3	$3/4" = 1'-0"$	SOG BLOCKOUT AT COLUMN/PILASTER
----------	----------------	------------------------------------



NOTES:

1. GRANULAR COURSE: 6" MIN COMPACTED GRANULAR FILL, SEE EARTHWORK SPEC
2. PREPARED/COMPACTED SUBGRADE. SEE EARTHWORK SPEC

4	1" = 1'-0" TYP SLAB ON GRADE
---	---------------------------------

Project Name

SSRC | BASE AREA
IMPROVEMENTS

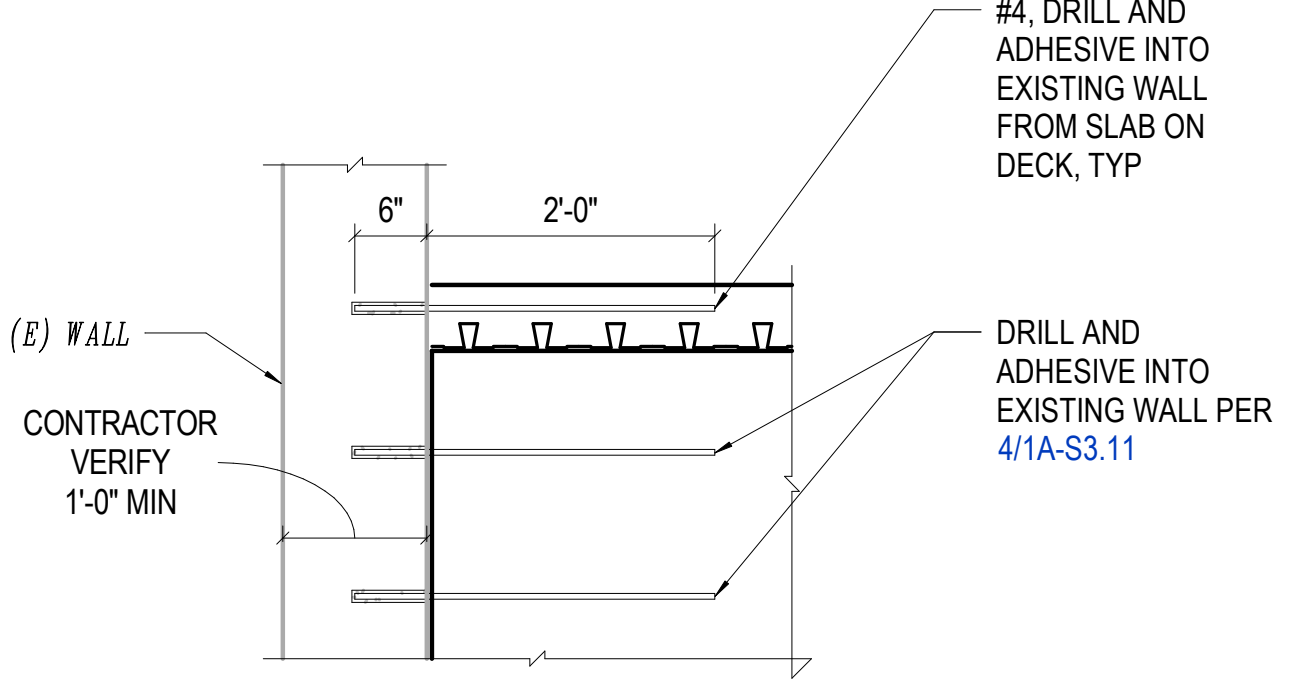
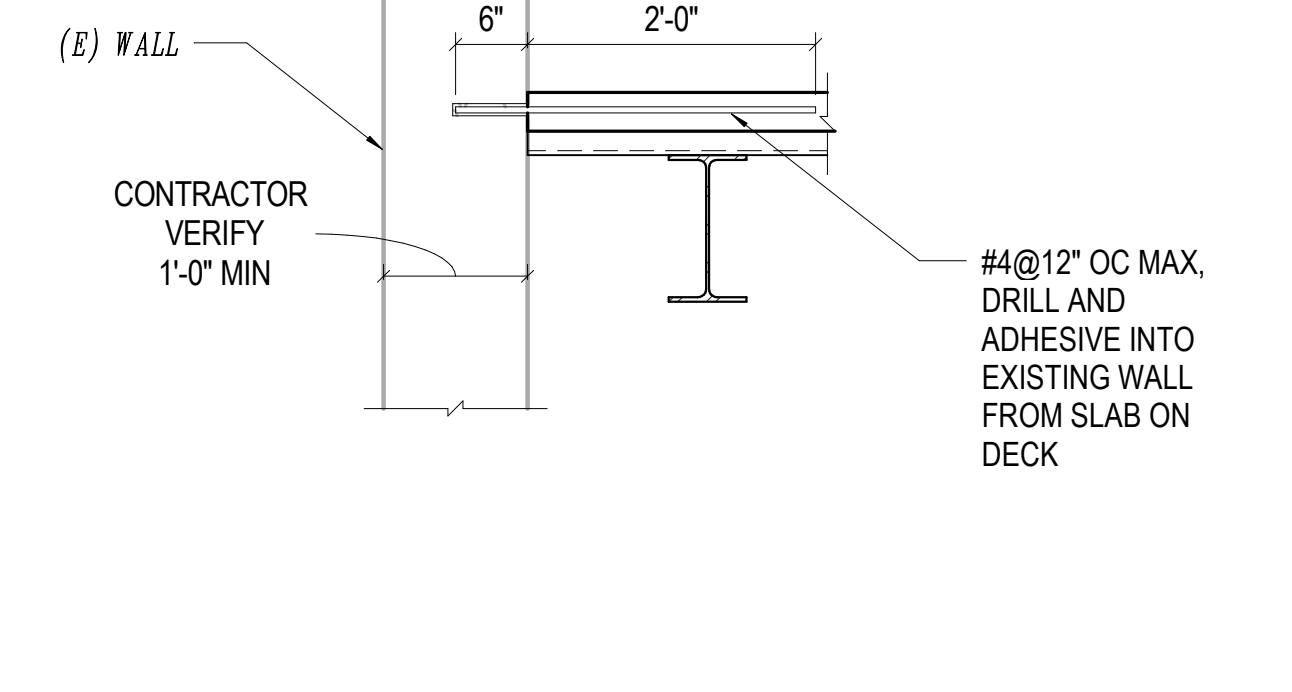
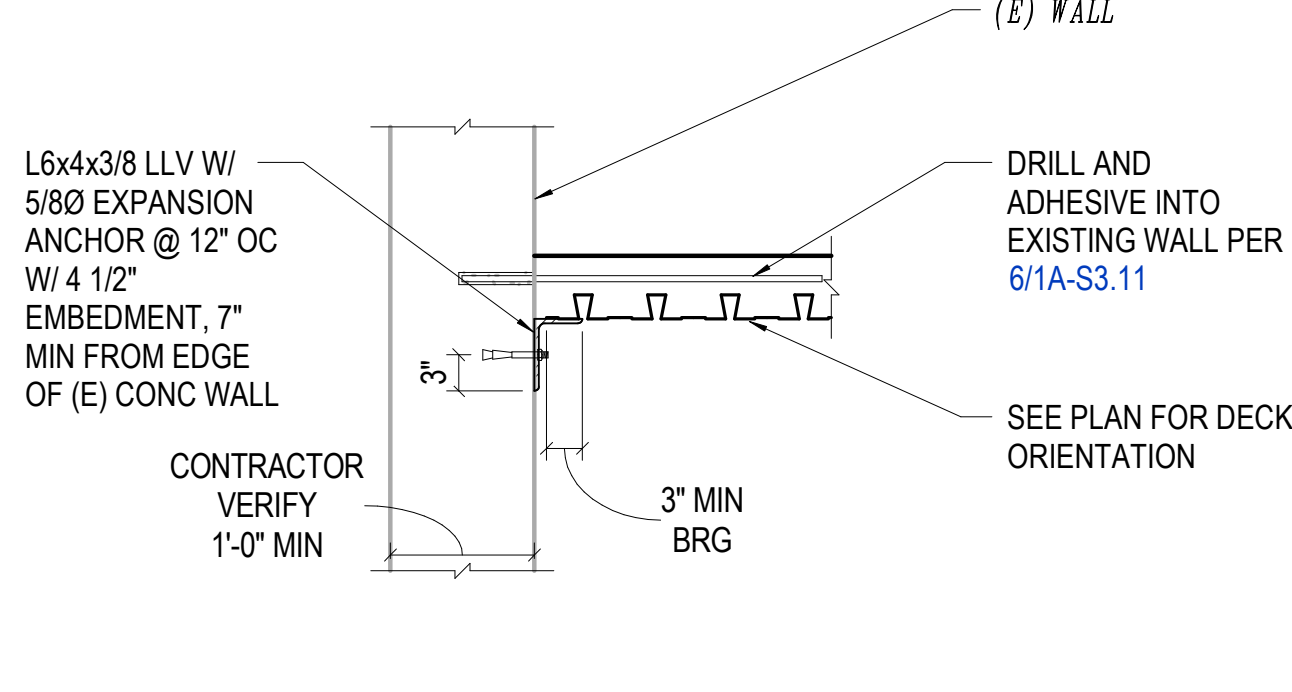
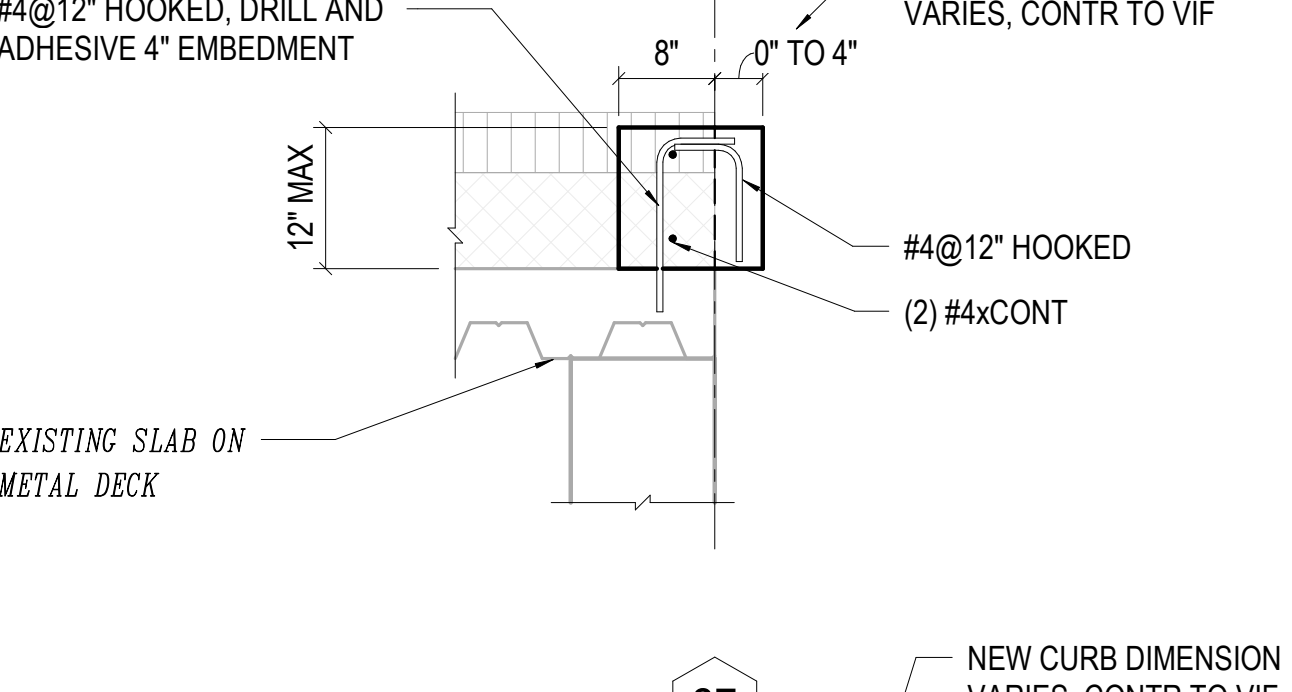
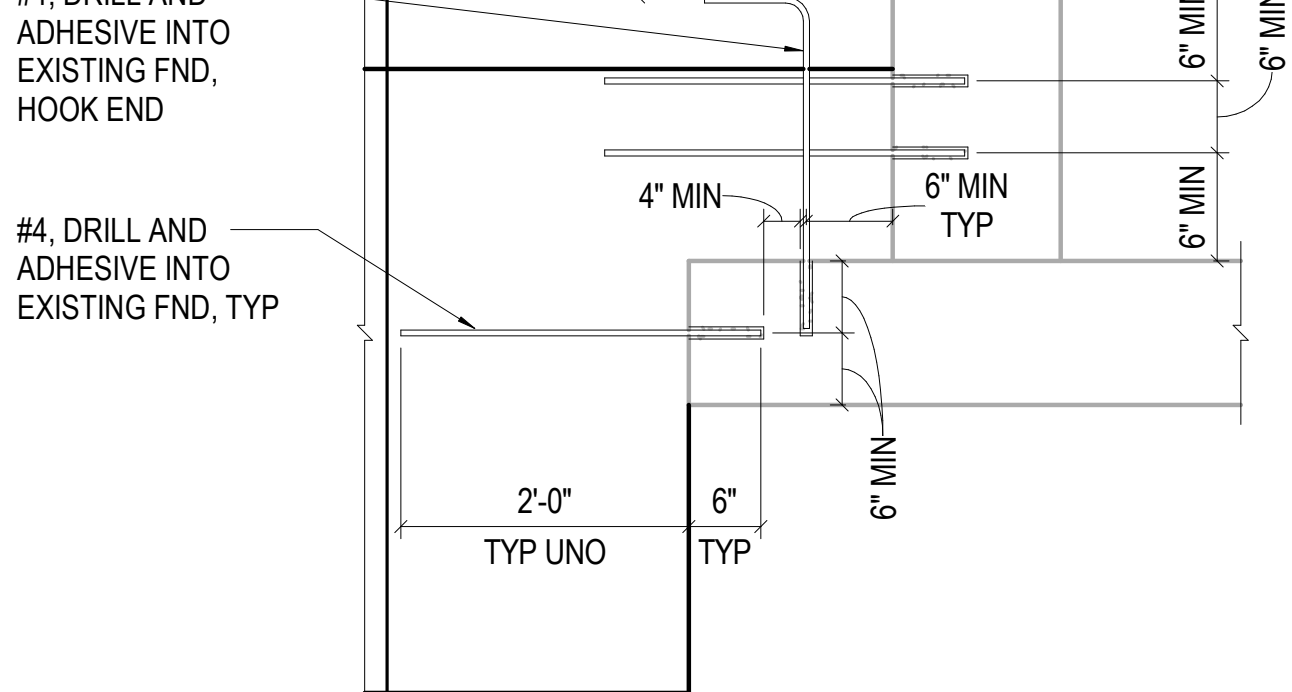
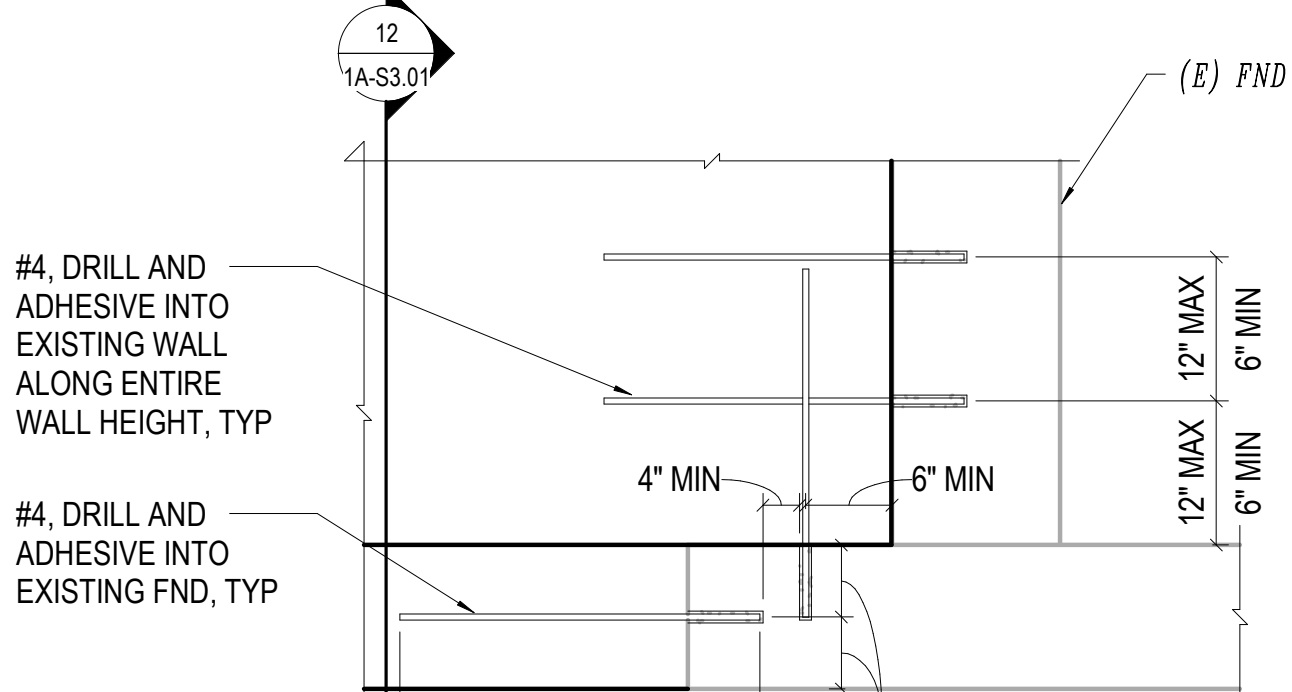
Project Number

Description
TYPICAL SOG DETAILS

Scale
As indicated

1A-S3.10

DESIGNER: NC MARTIN
LEAD REVIT TECH COLIN KNOWLES
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ML 029 # 201411.S.01
PRINCIPAL: KELLY KNOWLES
PROJECT MANAGER: C. A. CHEN

				 <p>NOTES: 1. SCAN EXISTING CONCRETE AND AVOID EXISITING REINFORCEMENT 2. CONTRACTOR TO FIELD VERIFY EXISTING FOUNDATION WALL</p>		
		5	3/4" = 1'-0"	T/ FND WALL TO (E) WALL		
				 <p>NOTES: 1. SCAN EXISTING CONCRETE AND AVOID EXISITING REINFORCEMENT 2. CONTRACTOR TO FIELD VERIFY EXISTING FOUNDATION WALL</p>		
		6	3/4" = 1'-0"	DECK ADHESIVE TO (E) WALL		
				 <p>NOTES: 1. SCAN EXISTING CONCRETE AND AVOID EXISITING REINFORCEMENT 2. CONTRACTOR TO FIELD VERIFY EXISTING FOUNDATION WALL</p>		
		7	3/4" = 1'-0"	ANGLE SUPPORTING DECK AT (E) WALL		
				 <p>NOTES: 1. SCAN EXISTING CONCRETE AND AVOID EXISITING REINFORCEMENT 2. CONTRACTOR TO FIELD VERIFY EXISTING FOUNDATION WALL</p>		
		8	3/4" = 1'-0"	NEW CURB AT OSP PLAZA		
				 <p>NOTES: 1. SCAN EXISTING CONCRETE AND AVOID EXISITING REINFORCEMENT 2. CONTRACTOR TO FIELD VERIFY EXISTING FOUNDATION WALL AND FOOTING</p>		
		9	3/4" = 1'-0"	GRADE BEAM TIED TO (E) FND		
				 <p>NOTES: 1. SCAN EXISTING CONCRETE AND AVOID EXISITING REINFORCEMENT 2. CONTRACTOR TO FIELD VERIFY EXISTING FOUNDATION WALL AND FOOTING</p>		
		10	3/4" = 1'-0"	FND WALL TIED TO (E) FND		



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Project Name
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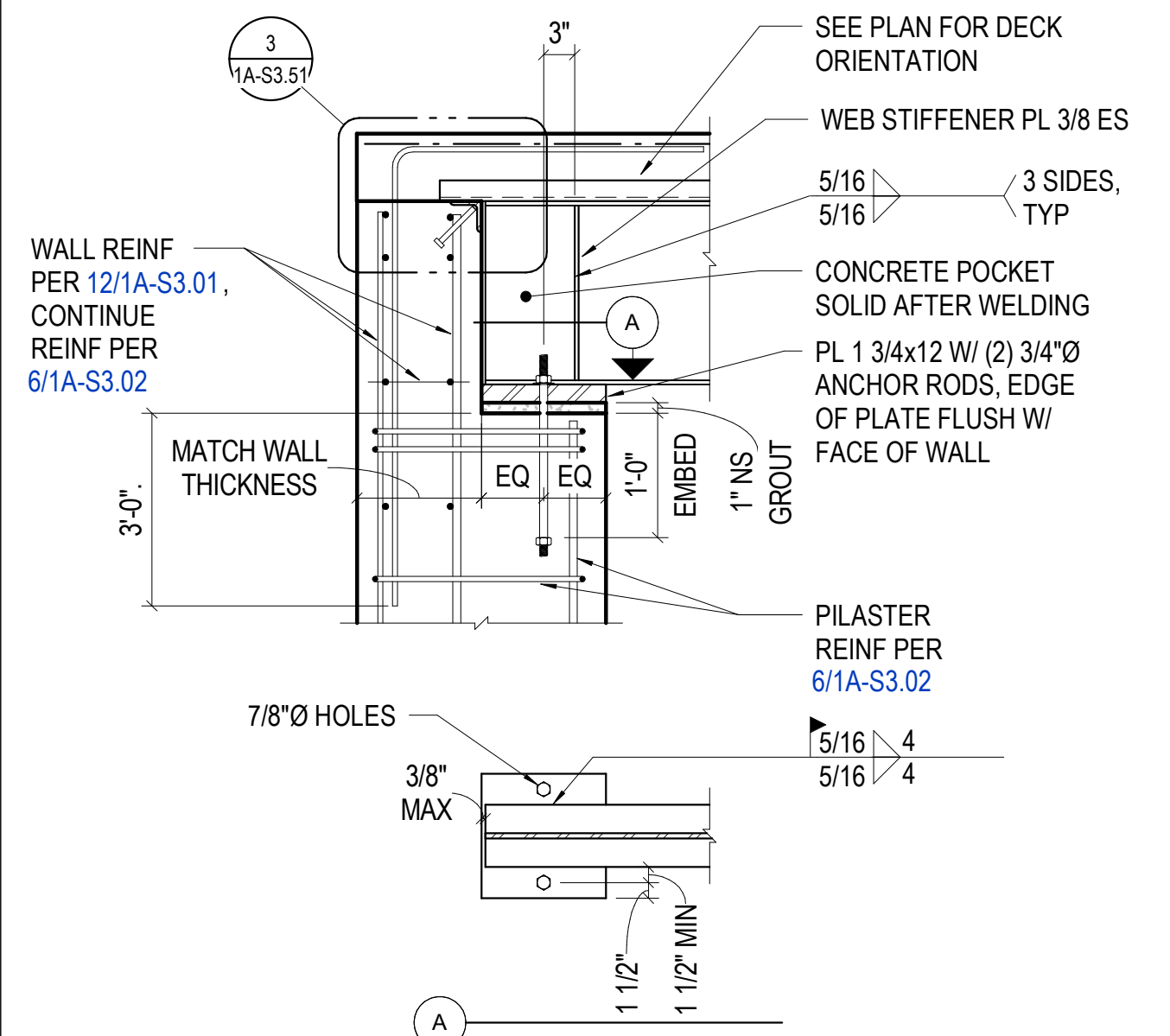
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Description
CONCRETE DETAILS

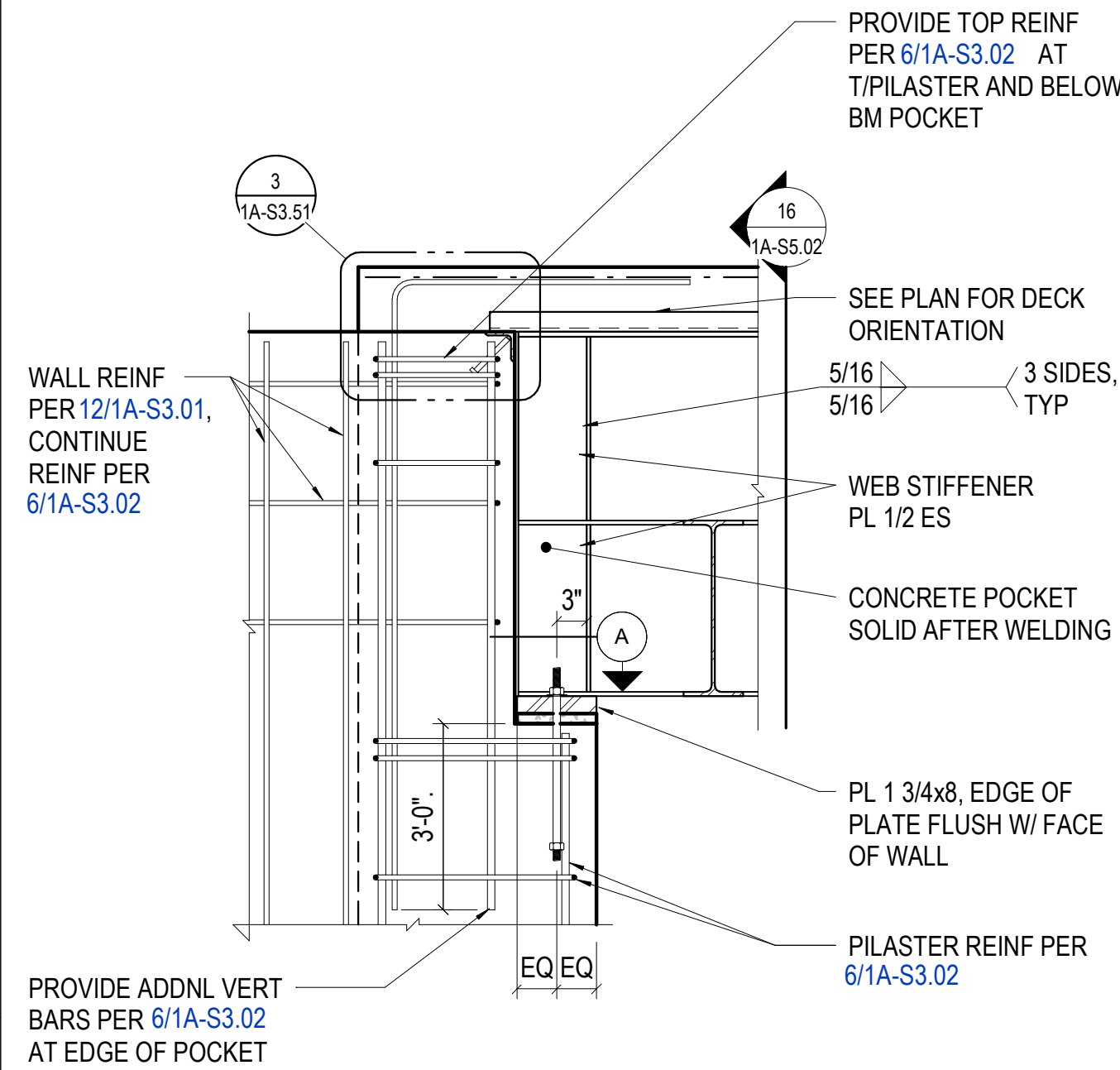
Scale
3/4" = 1'-0"

1A-S3.11

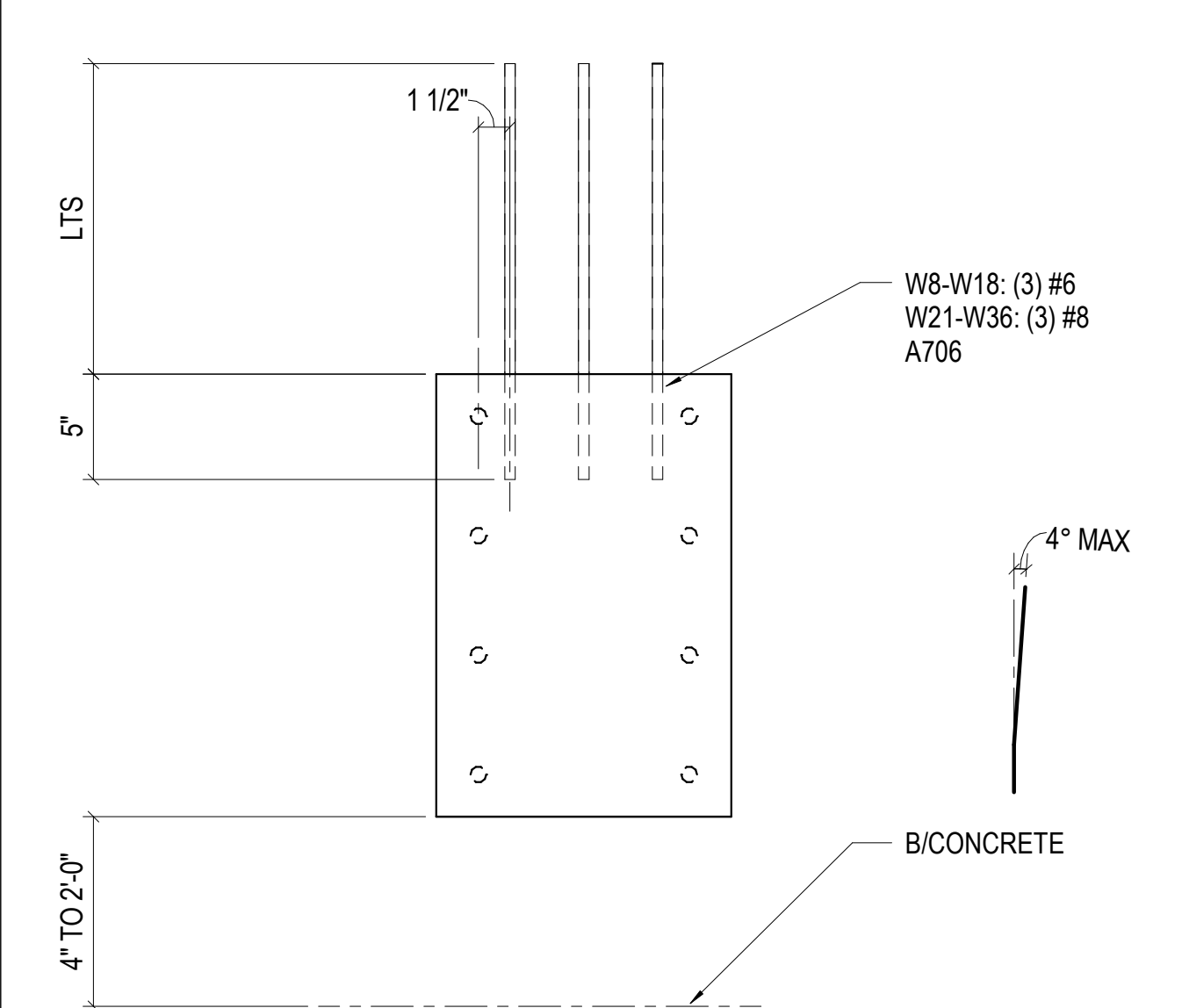
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MIL JOB # 201411.S.01
PRINCIPAL: KELLY KNOWLES
ENGINEER: KELLY KNOWLES
PROJECT MANAGER: C. A. CHEN



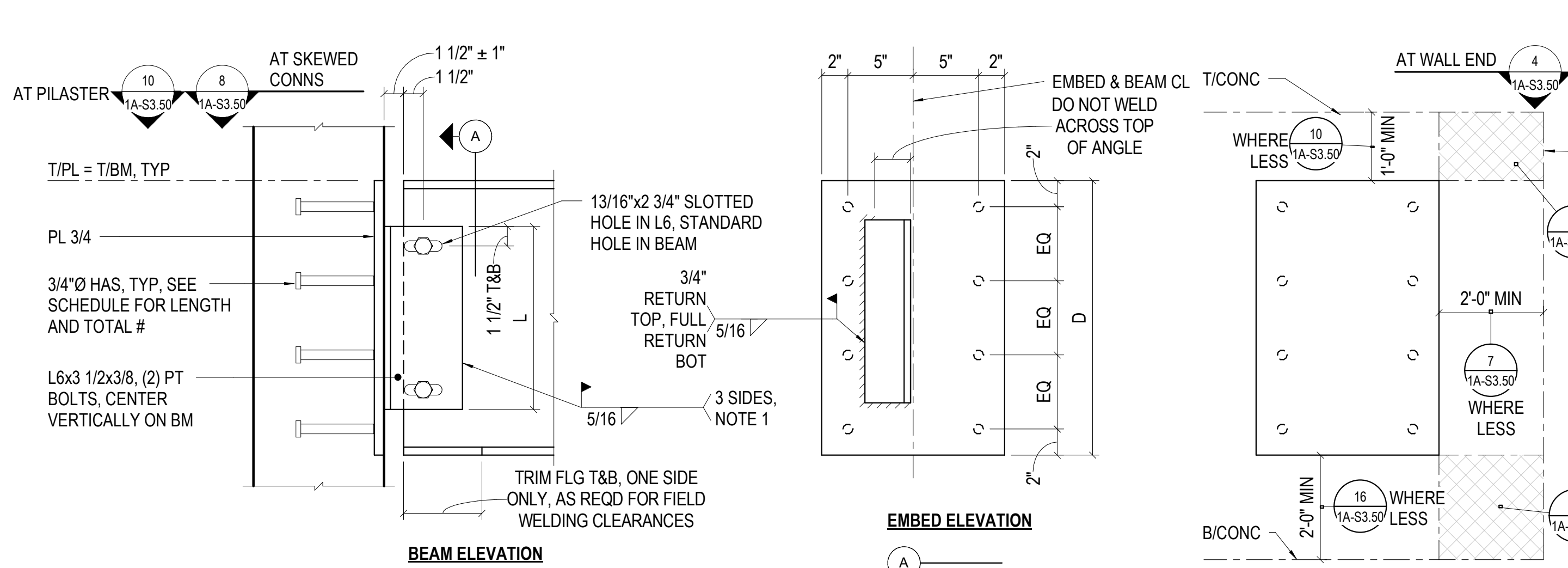
13 3/4" = 1'-0" CONCRETE BEAM BEARING - POCKET



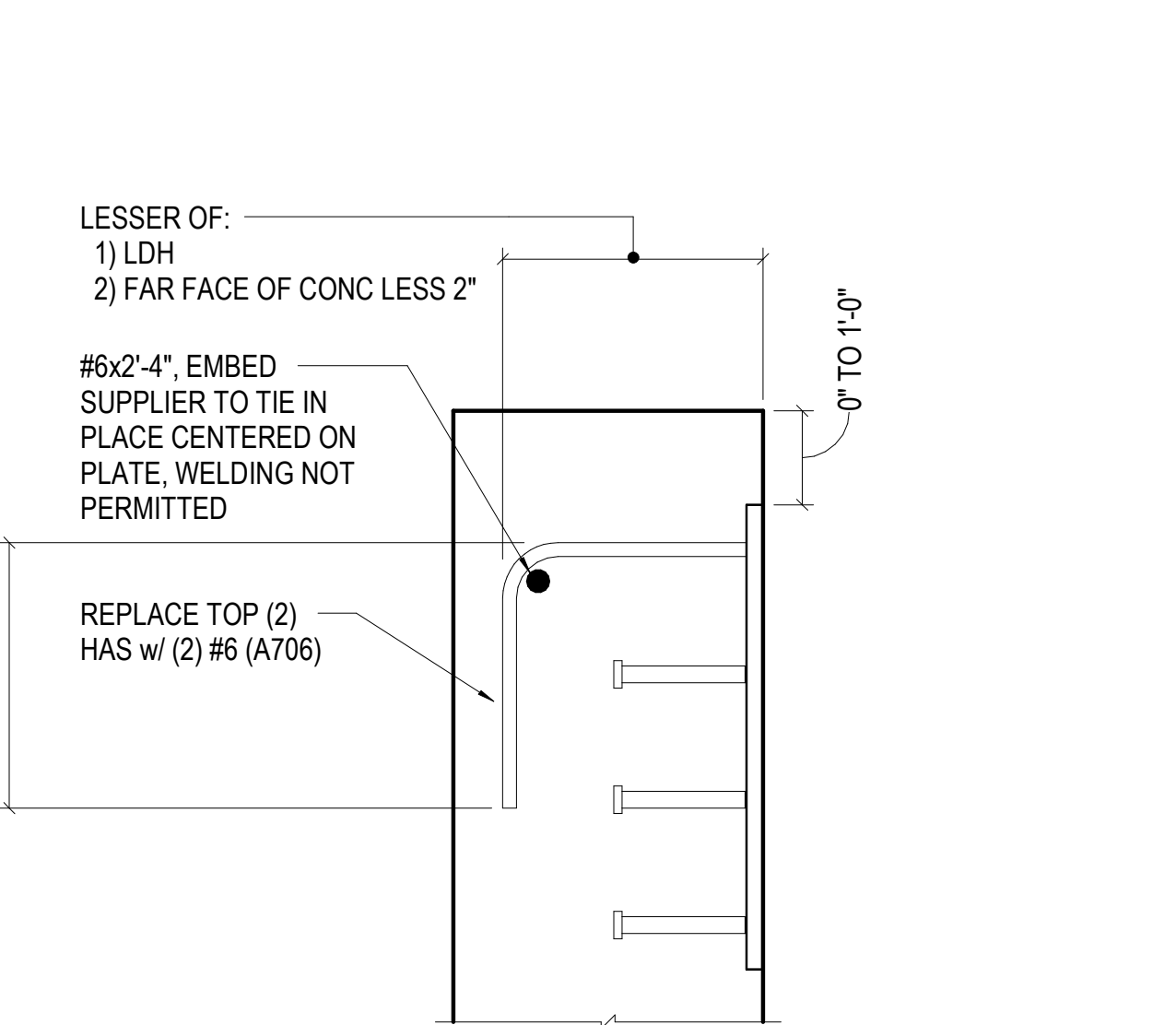
15 3/4" = 1'-0" CONCRETE BEAM BEARING - END POCKET



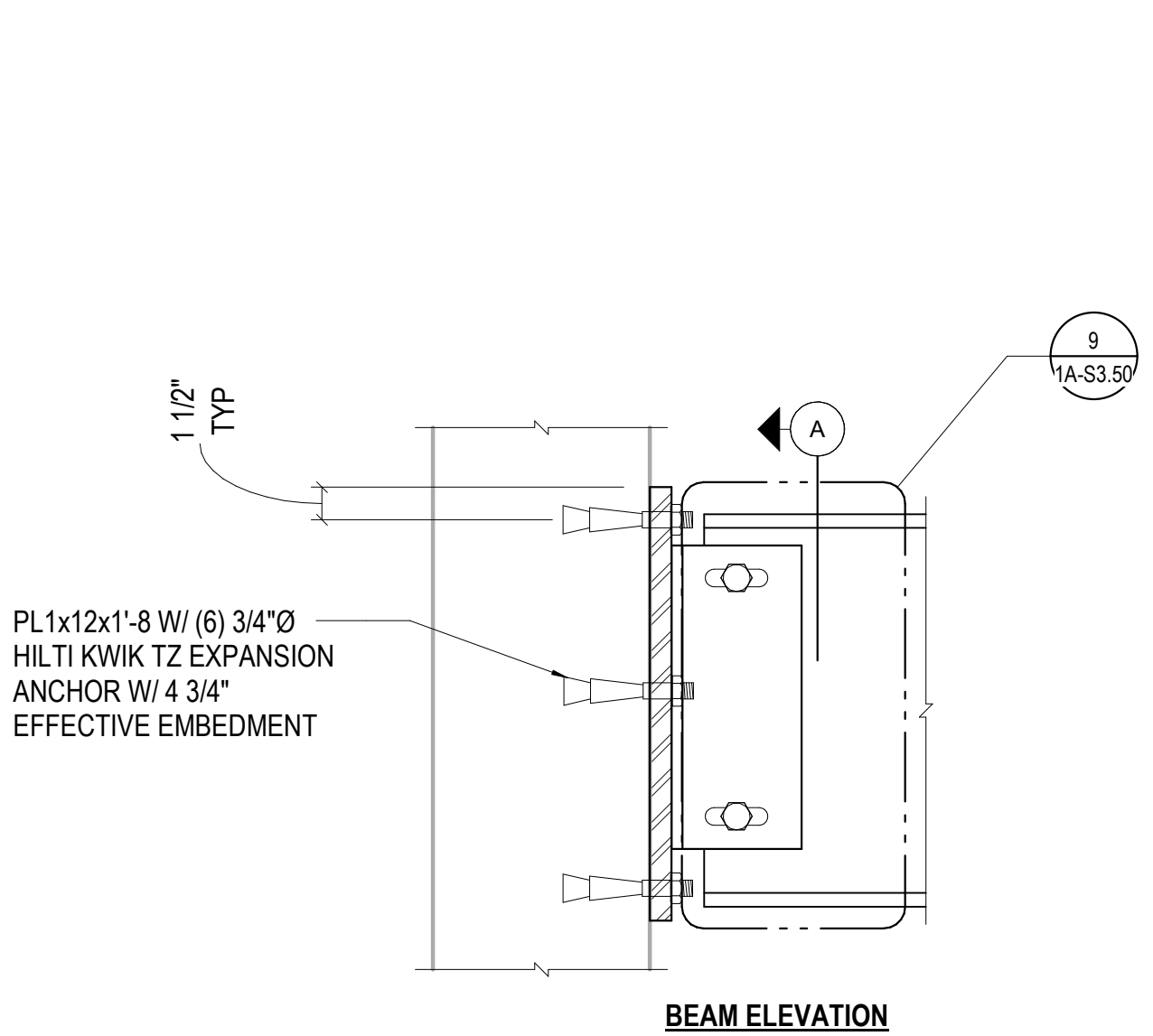
16 1 1/2" = 1'-0" BEAM EMBED NEAR BOTTOM OF WALL



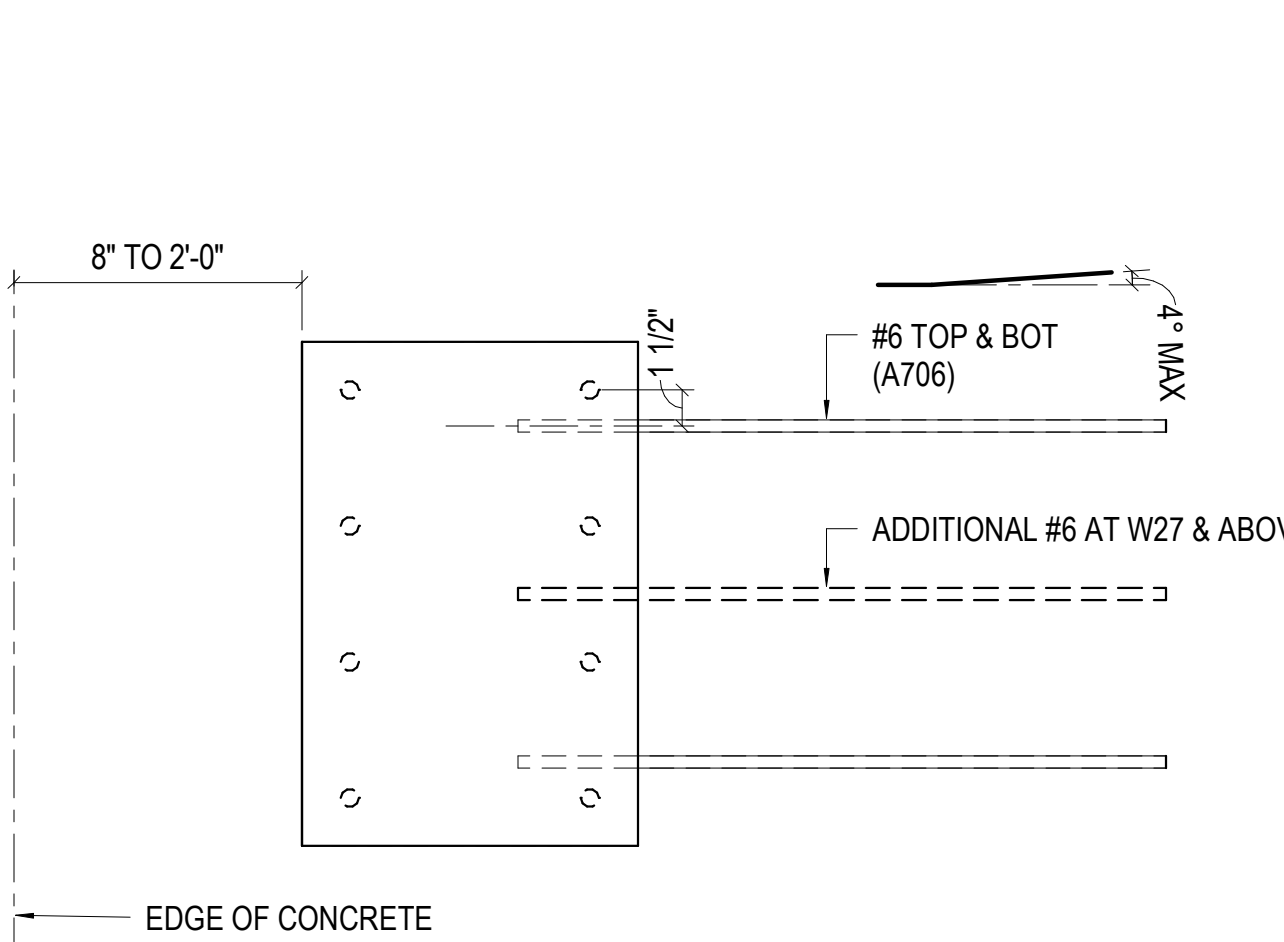
9 NO SCALE TYPICAL BEAM EMBED PL CONNECTION & SCHEDULE - LRFD



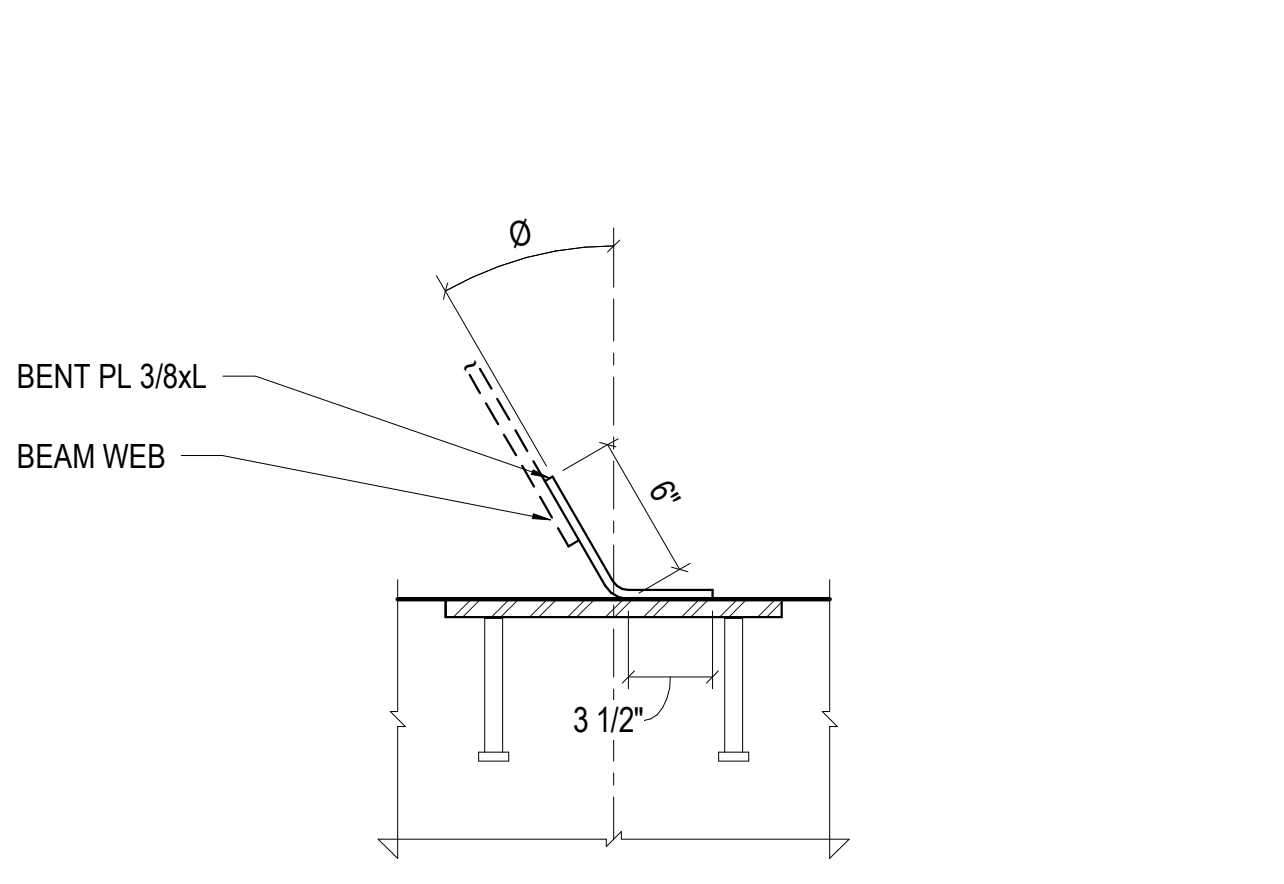
10 NO SCALE BEAM EMBED NEAR TOP OF WALL SINGLE SIDED



6 NO SCALE BEAM EMBED NEAR TOP EDGE OF WALL



7 NO SCALE BEAM EMBED NEAR EDGE OF WALL



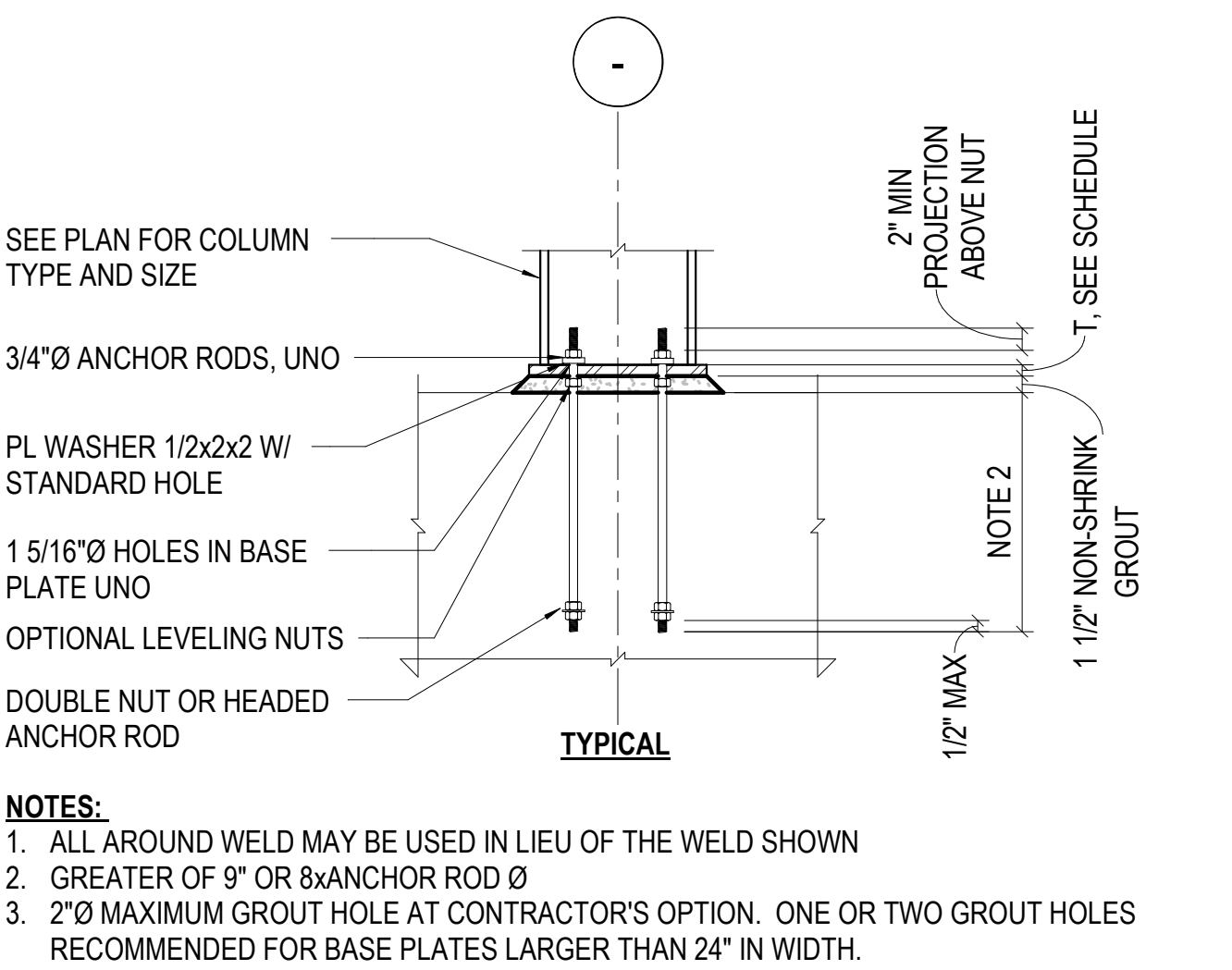
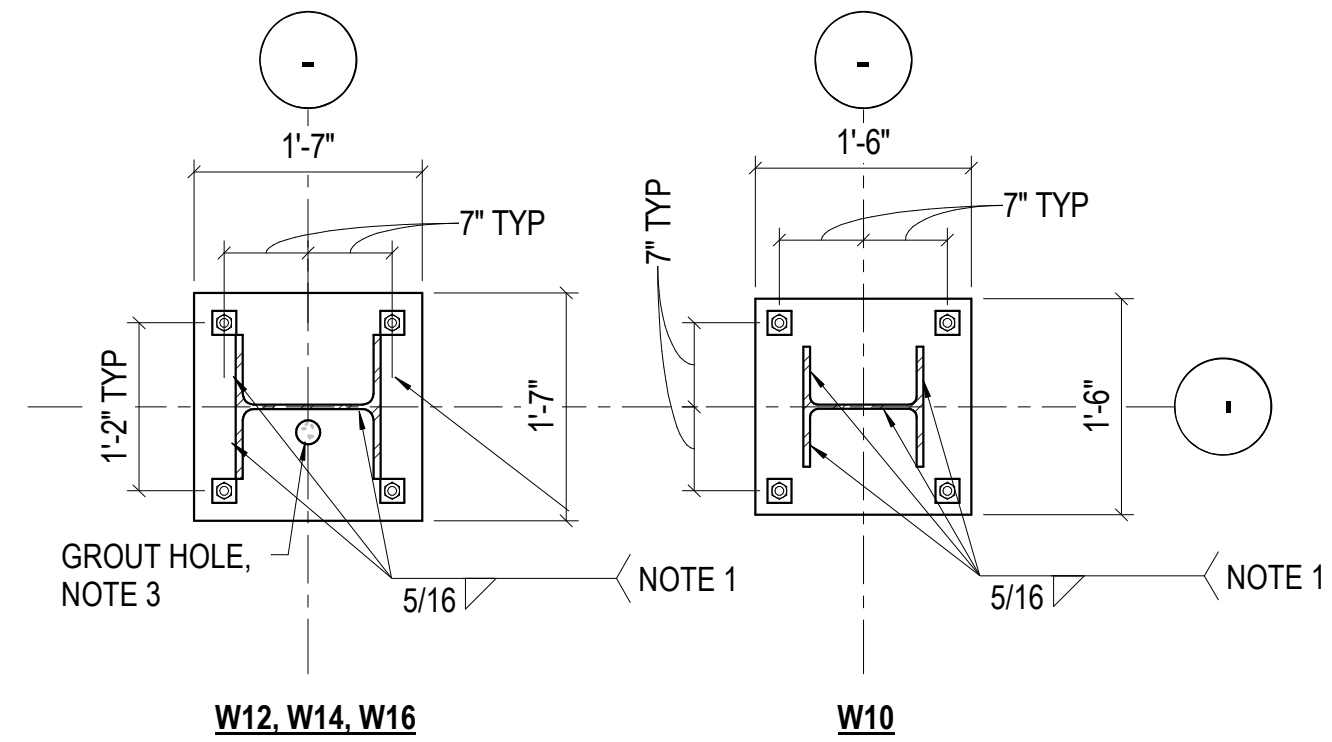
NOTES:
1. REQUEST CONN FROM ENGINEER IF $\theta > 45^\circ$

8 NO SCALE BEAM EMBED AT SKEWED BM

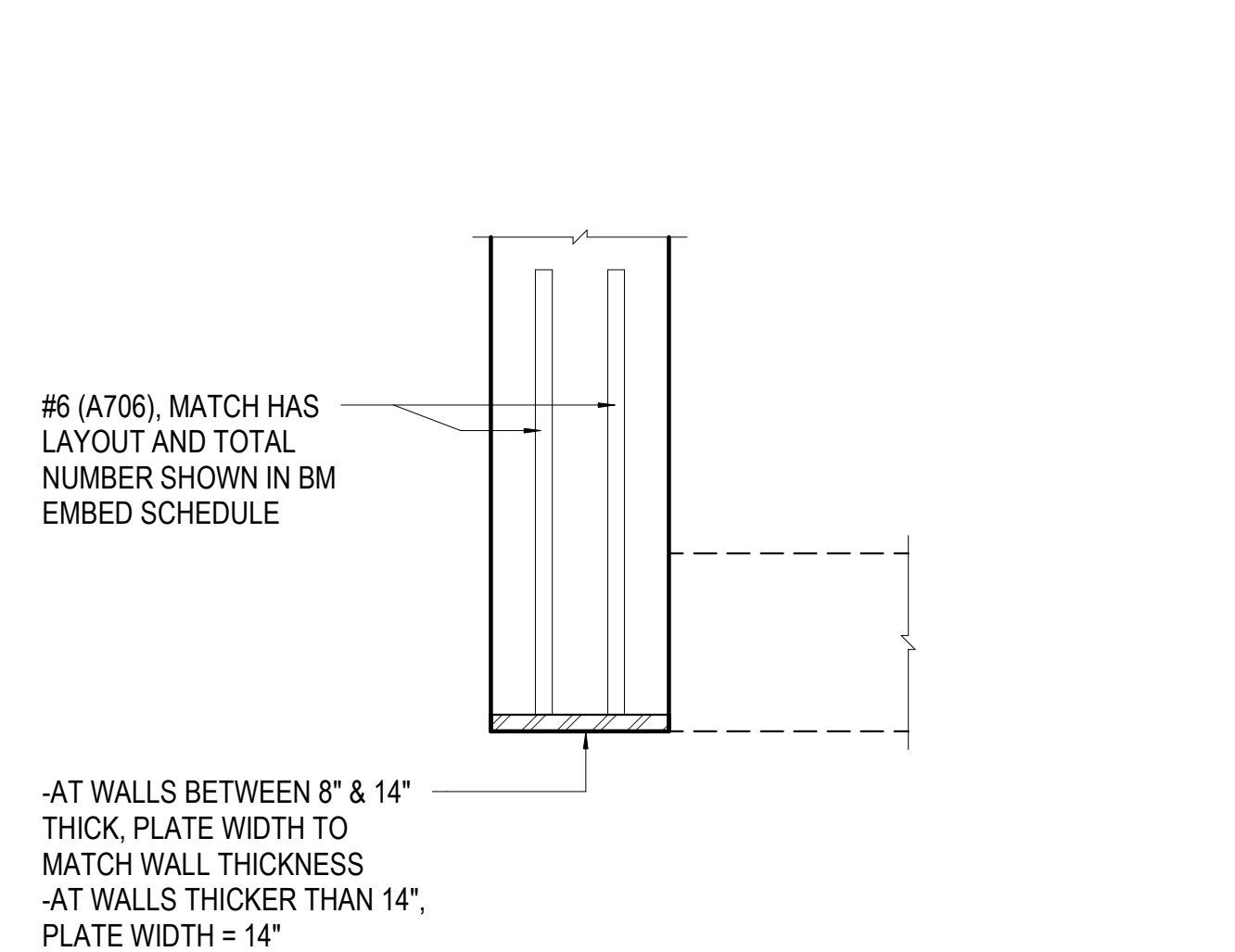
TYP EMBEDDED PL SCHED**				
BEAM	CAPACITY (KIPS)*	D (IN)	L (IN)	TOTAL # HAS
W12	39	12	8	4
W14	51	14	9	6
W16	61	16	10	6
W18	78	18	12	6
W30	113	30	18	14
W36	124	36	20	16

* ULTIMATE LEVEL (LRFD)
** EMBEDDED PLATE TYPE IS BASED ON BEAM DEPTH.
IF PLAN REACTION IS GREATER THAN SCHEDULED CAPACITY, REQUEST CUSTOM CONNECTION FROM ENGINEER

BASE PLATE DIMENSIONS			
COLUMN SIZE	PLATE THICKNESS, T (in)	B, (in)	N, (in)
W10x45-W10x49	1 1/4	18	18
W12x65	1 3/4	19	19



3 3/4" = 1'-0" TYPICAL GRAVITY COLUMN BASE PLATE



12 NO SCALE POST-INSTALLED CONNECTION TO (E) WALL

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Project Number
20.1411.S.01
Description
CONCRETE SUPPORTING STEEL DETAILS
Scale
As indicated

1A-S3.50

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PRINCIPAL: KELLY KNOWLTON

MIL JOB # 201411.S.01
DESIGNER: NC MARTIN
PRINCIPAL: KELLY KNOWLES
DATE PRINTED: 5/19/2021 12:03:33 PM
PROJECT MANAGER: C. A. CHEN

		<div>KEYNOTES:</div> <div><div>1</div>TYPICAL WALL VERTICAL REINFORCING: #4@48" OC</div> <div><div>2</div>BOND BEAM W/ (1) #5 AT T/WALL</div> <div><div>3</div>BOND BEAM W/ (1) #5 AT BOT OF ALL OPENINGS</div> <div><div>4</div>HORIZ JOINT REINF: "LADDER" TYPE JOINT REINF W/ (2) W1.7 WIRES @ 16" OC</div> <div><div>5</div>LINTEL</div> <div><div>6</div>CONTROL JOINTS @ 20'-0" OC MAX AND EACH END OF WALL</div> <div><div>7</div>JAMB REINFORCEMENT EACH SIDE OF OPENING</div> <div><div>8</div>DOWELS TO MATCH SIZE AND LOCATION OF VERTICAL BARS</div> <div><div>9</div>TERMINATE ALL HORIZONTAL REINFORCEMNET AT CONTROL JOINTS</div> <div><div>10</div>T/WALL SUPPORT, SEE DETAILS THIS PAGE, LOCATE AT 8'-0" ON CENTER MAX</div> <div><div>11</div>AT SERIES OF TWO OR MORE OPENINGS, MASONRY LINTEL REINFORCEMNET SHALL BE CONTINUOUS. IF SPACE BETWEEN OPENINGS IS LESS THAN 1'-4", USE OVERALL WIDTH OF SERIES OF OPENINGS TO DETERMINE LINTEL SIZE AND JAMB REINF</div> <div><div>12</div>WHERE EDGE OF OPENING IS FLUSH WITH PERPENDICULAR WALL, OR REQUIRED JAMB SIZE IS LARGER THAN AVAILABLE, A CONTROL JOINT IS NOT PERMITTED AT THIS INTERSECTION</div>
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Date	Description
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Project Name	SSRC BASE AREA IMPROVEMENTS
Project Number	20.1411.S.01
Description	MASONRY DETAILS

Scale
As indicated

1A-S4.00

NOTES:
1. # INDICATES WEB REINFORCEMENT REQ'D TO ACHIEVE NOTED CAPACITY. SEE 3/1A-S5.00

BOLTS STAGGERED **BOLTS ALIGNED**

AT COLUMN

BOLTS STAGGERED **BOLTS ALIGNED**

AT GIRDER

BOLTED BEAM / BOLTED SUPPORT

BOLTED BEAM / WELDED SUPPORT

WELDED BEAM / BOLTED SUPPORT

5/16" RET TOP FULL RET BOT

5/16"

1/4" MAX

14 1A-S5.00

1 1A-S5.01

2 1A-S5.01

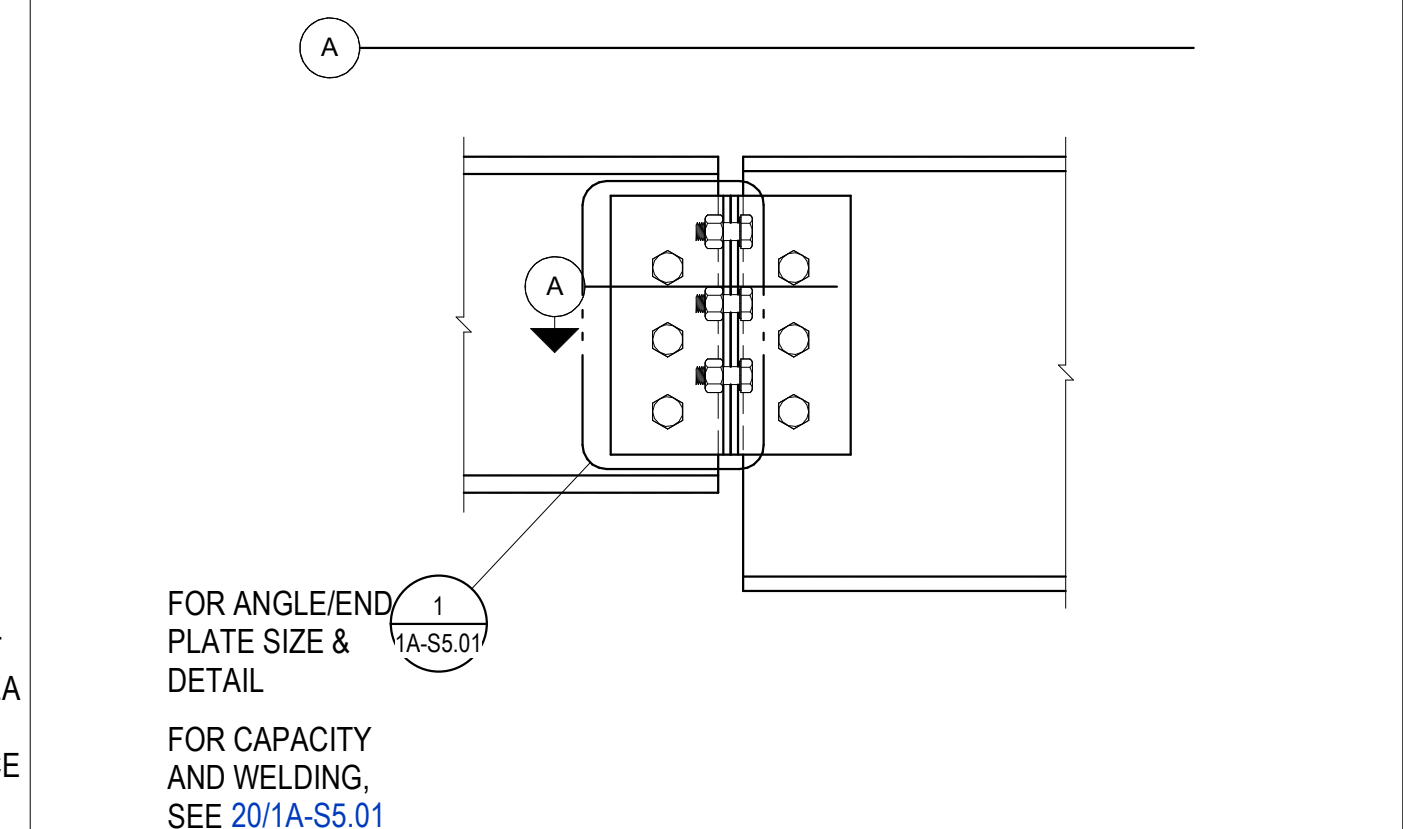
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20	NO SCALE TYP BEAM DOUBLE ANGLE AND END PLATE CONNECTION SCHEDULE - LRFD
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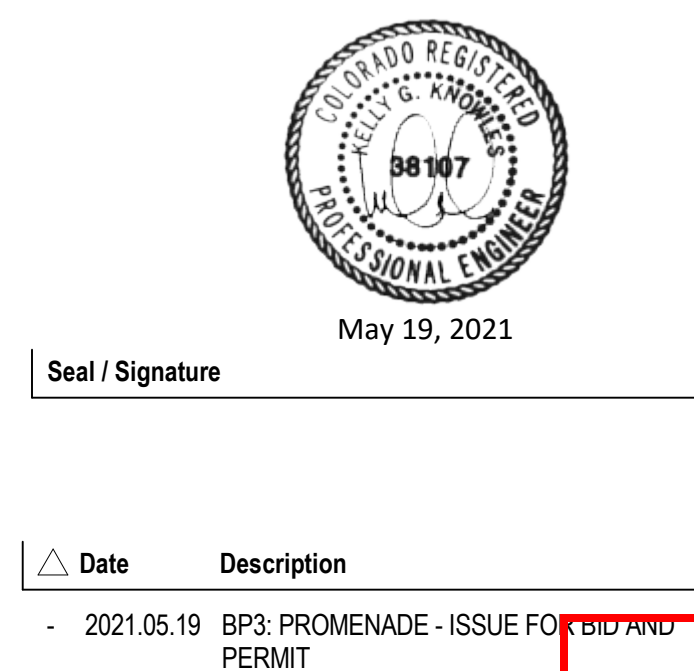
$45^\circ < \theta \leq 60^\circ$ $\sqrt{5/16}$
 $(3/8)$
 $22^\circ < \theta \leq 45^\circ$, BEVEL
 END OF BM WEB AT
 END PLATE $\sqrt{5/16}$
 $3/8$
 $14^\circ < \theta \leq 22^\circ$ $\sqrt{5/16}$
 $1/2$
 $7^\circ < \theta \leq 14^\circ$ $\sqrt{5/16}$
 $7/16$
 $0^\circ < \theta \leq 7^\circ$ $\sqrt{5/16}$
 $3/8$
 $0^\circ = \theta$ $\sqrt{5/16}$
 $5/16$

END PLATE

ANGLES - BOLTED BEAM / BOLTED SUPPORT

ANGLES - WELDED BEAM / BOLTED SUPPORT

3 SIDES, TYP 5/16



Project Name	SSRC BASE AREA IMPROVEMENTS
Project Number	20.1411.S.01
Description	TYP STEEL BEAM CONNS - LRFD
Scale	As indicated

1A-S5.01



				5	3/4" = 1'-0" SNOW MELT PIT SECTION
				3	3/4" = 1'-0" NEW STEEL ON EXISTING PIT WALL
				4	3/4" = 1'-0" MEP SUPPORT

DESIGNER: NC MARTIN
LEAD REVIT TECH COLIN KNOWLES
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FILE PATH: S:\19\2021\SSRC\1A-S5.03 - Steamboat Redevel\03 TBS5.000_Structural_SRP_Promenade Building 2021-2021.rvt

MIL JOB # - 201411.S.01
PRINCIPAL: KELLY KNOWLES
FOR: KELLY KNOWLES
PROJECT MANAGER: C. A. CHEN

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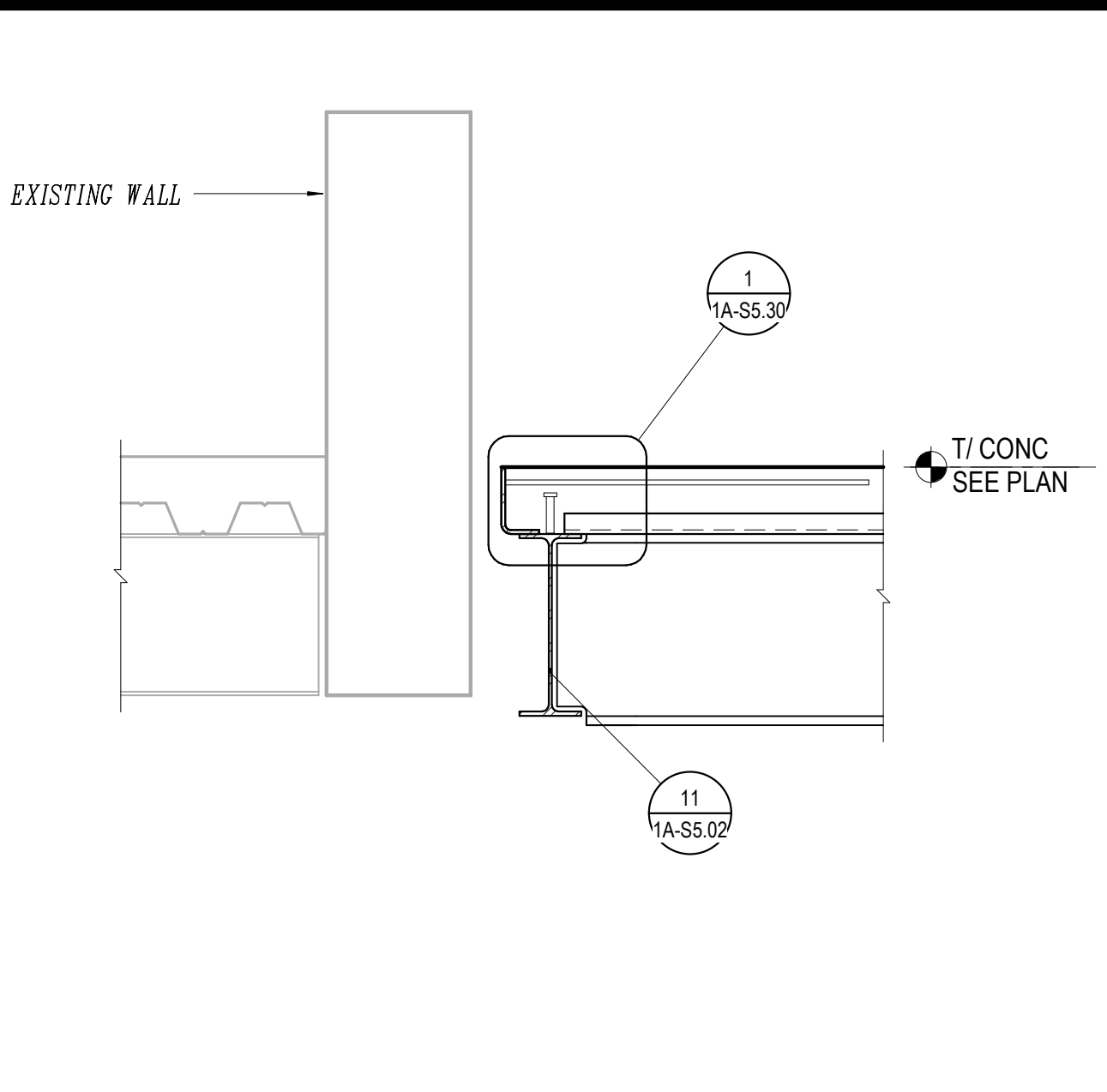
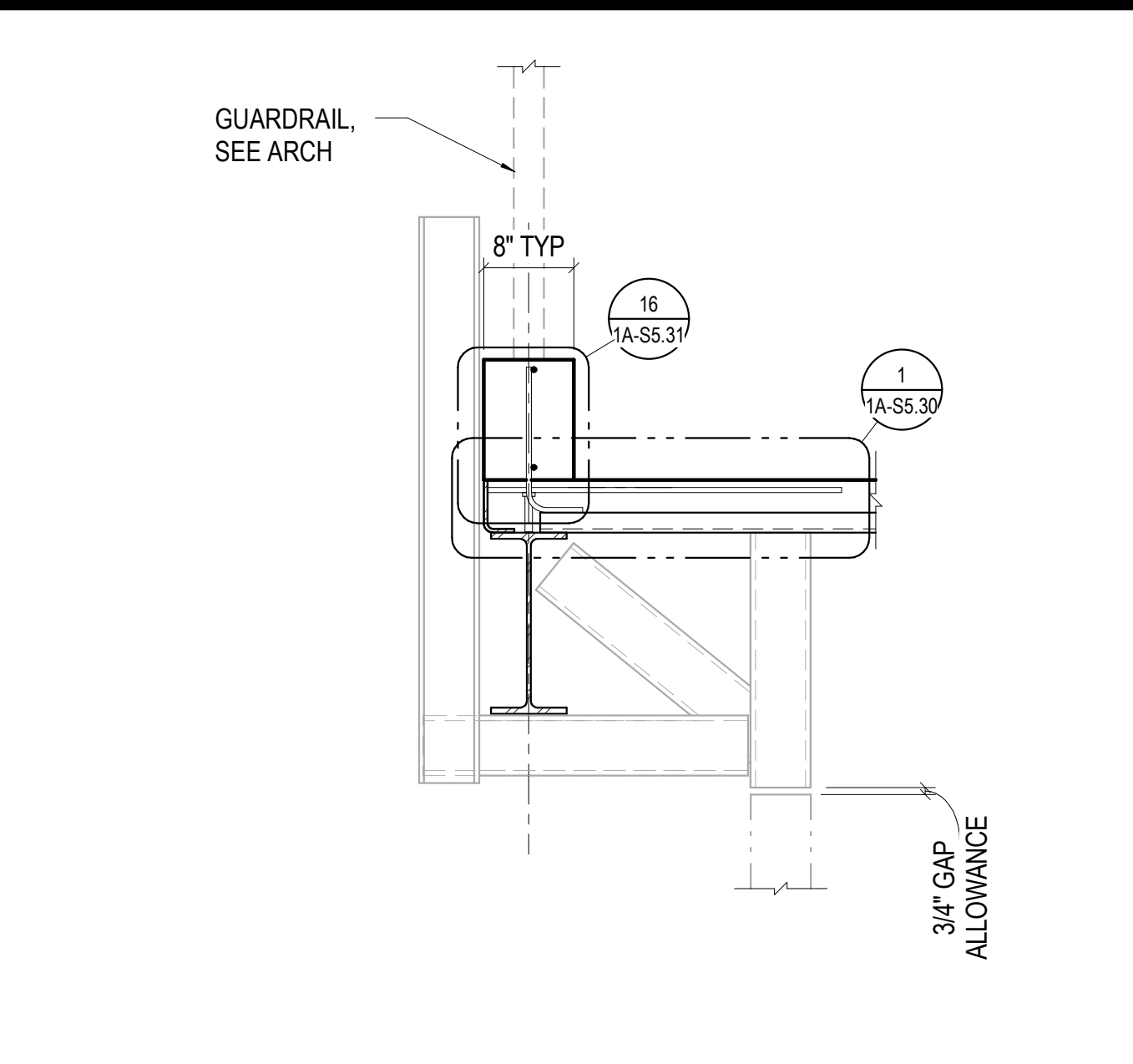
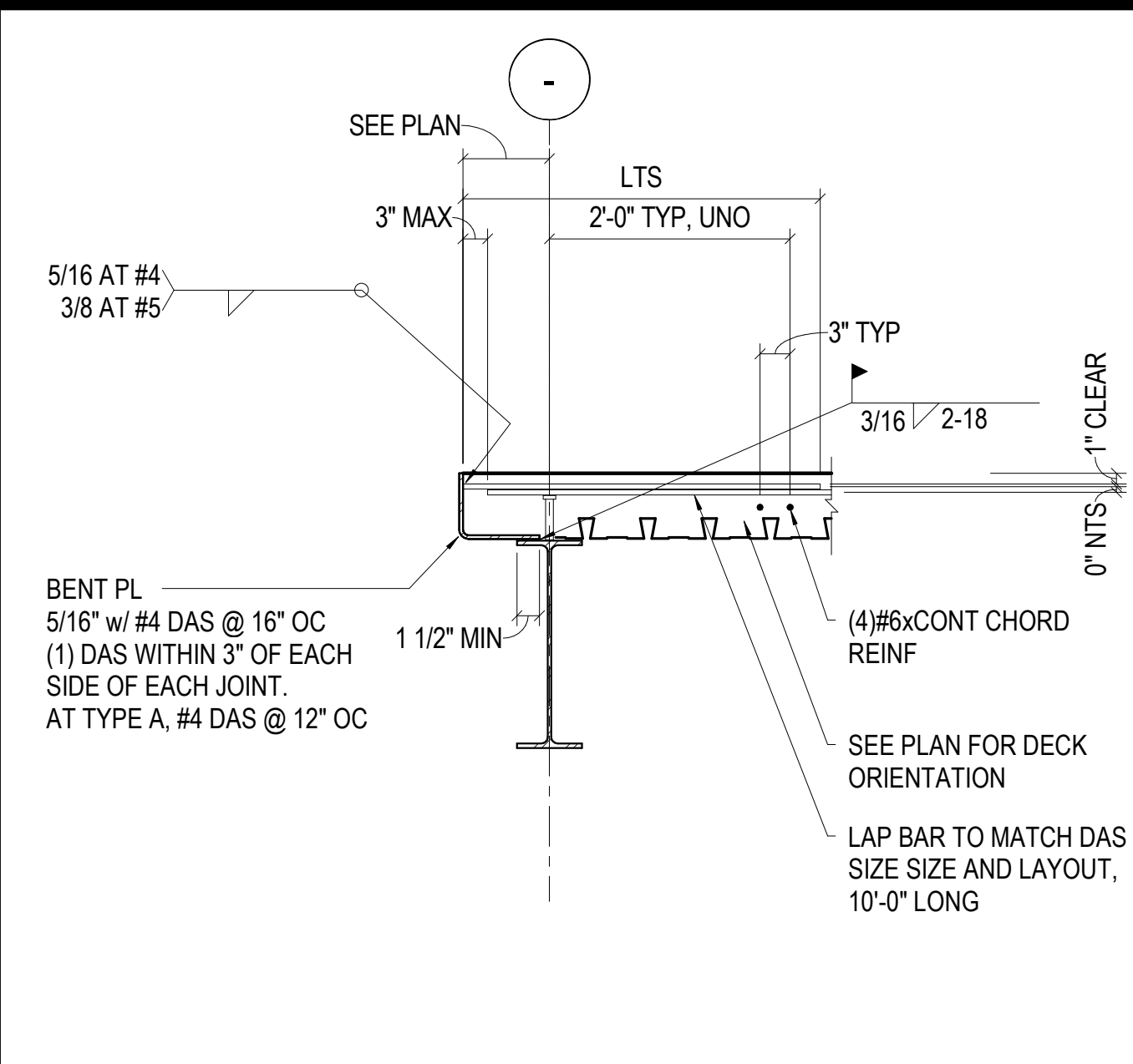
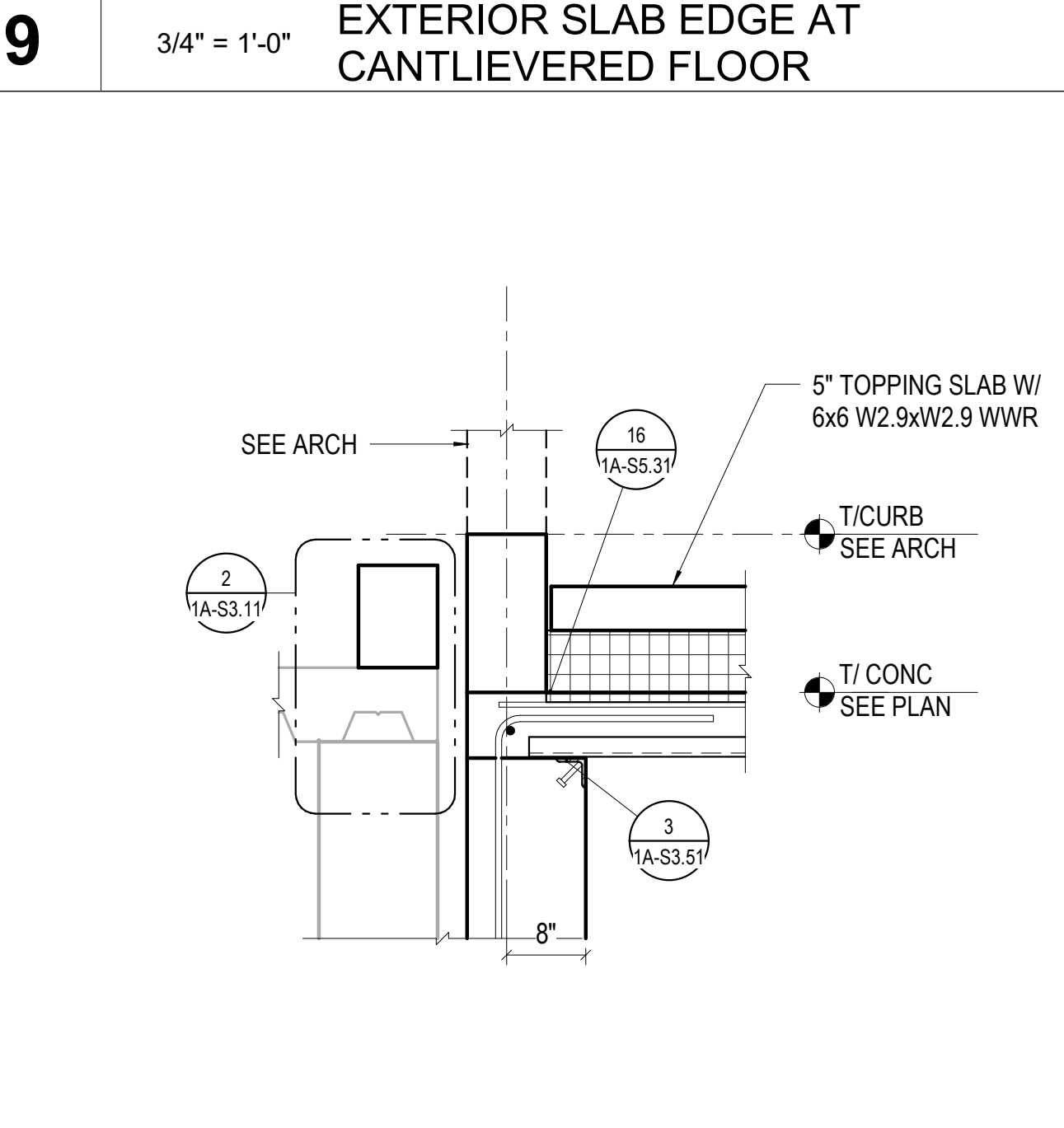
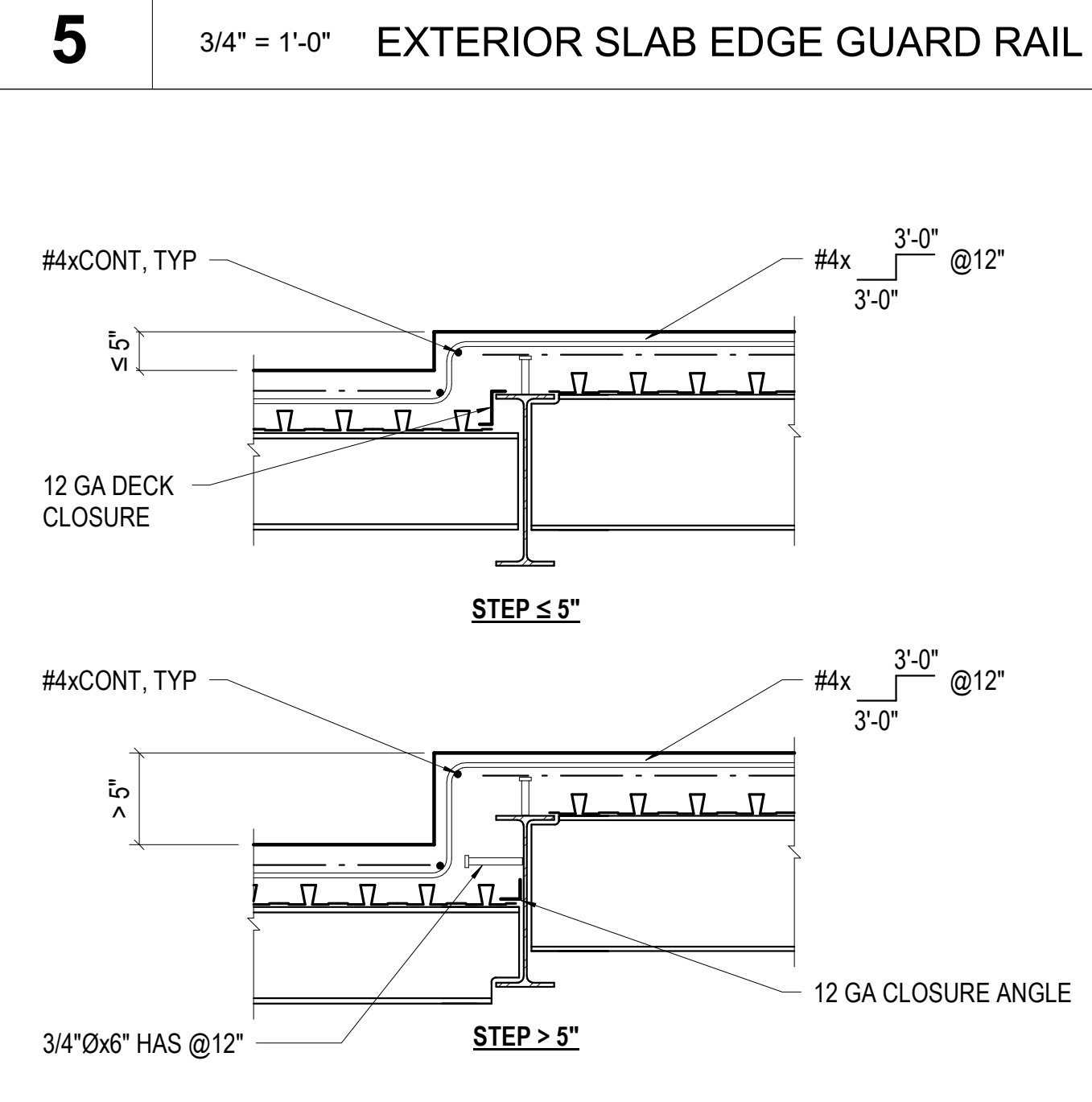
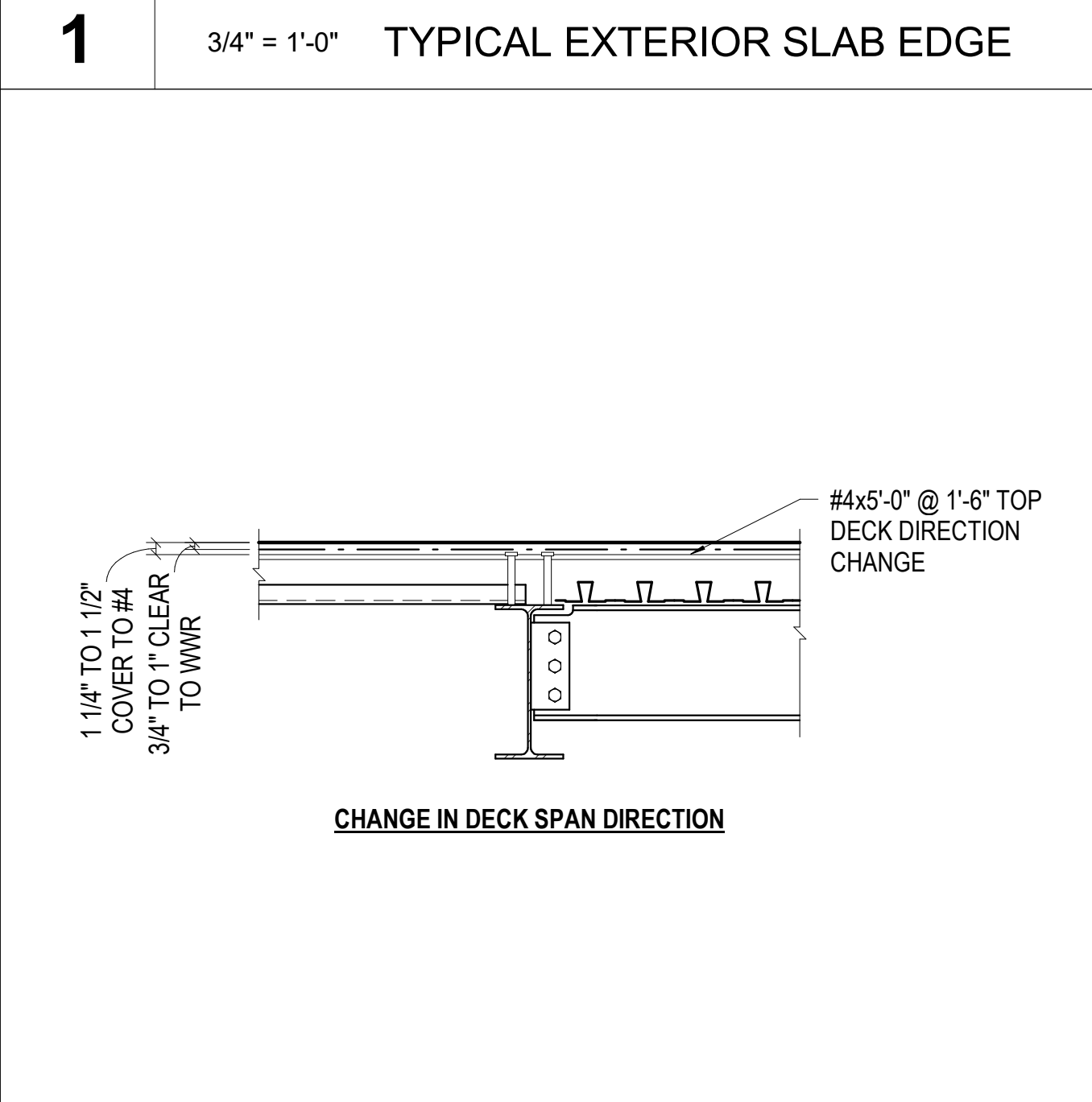
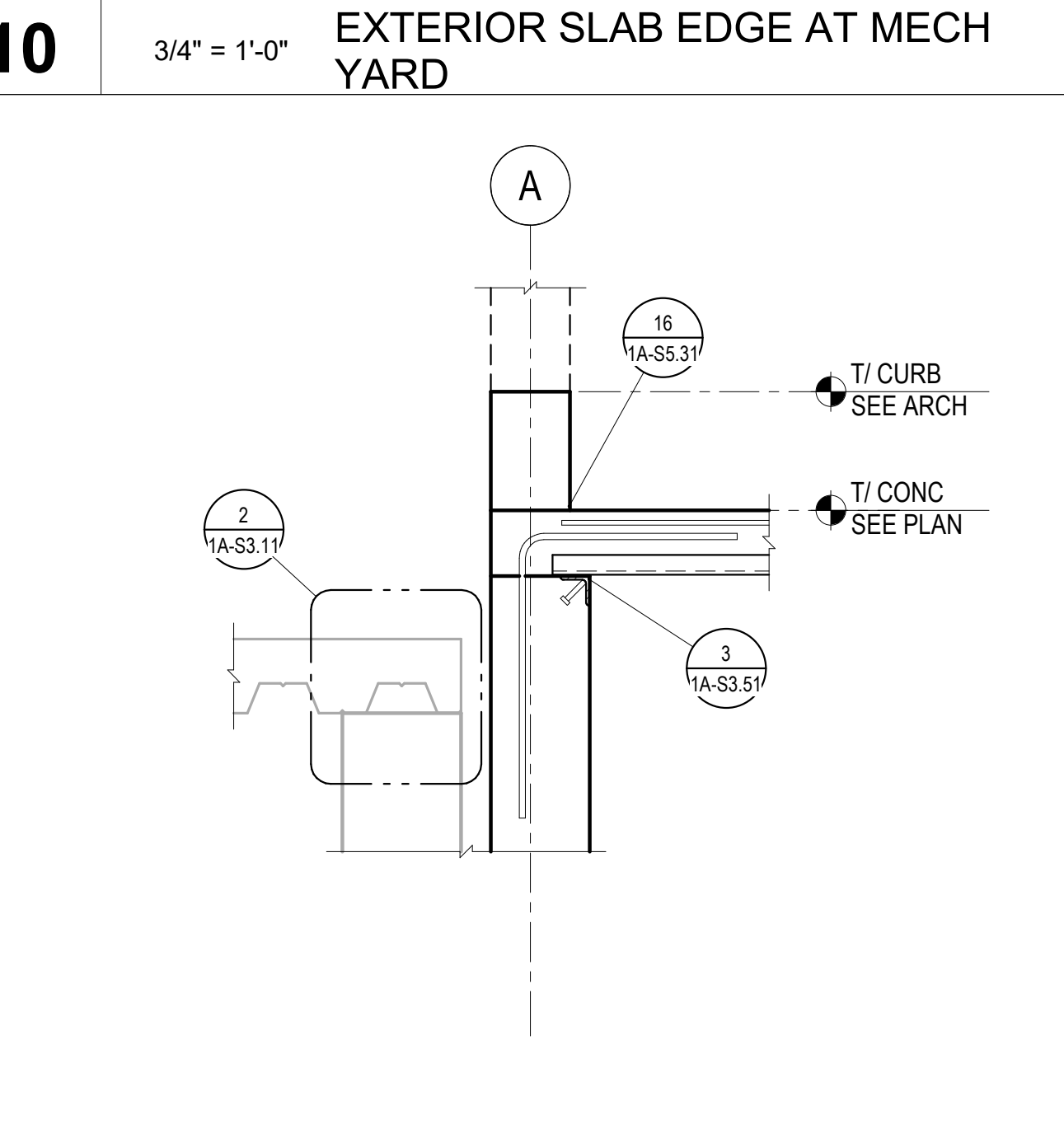
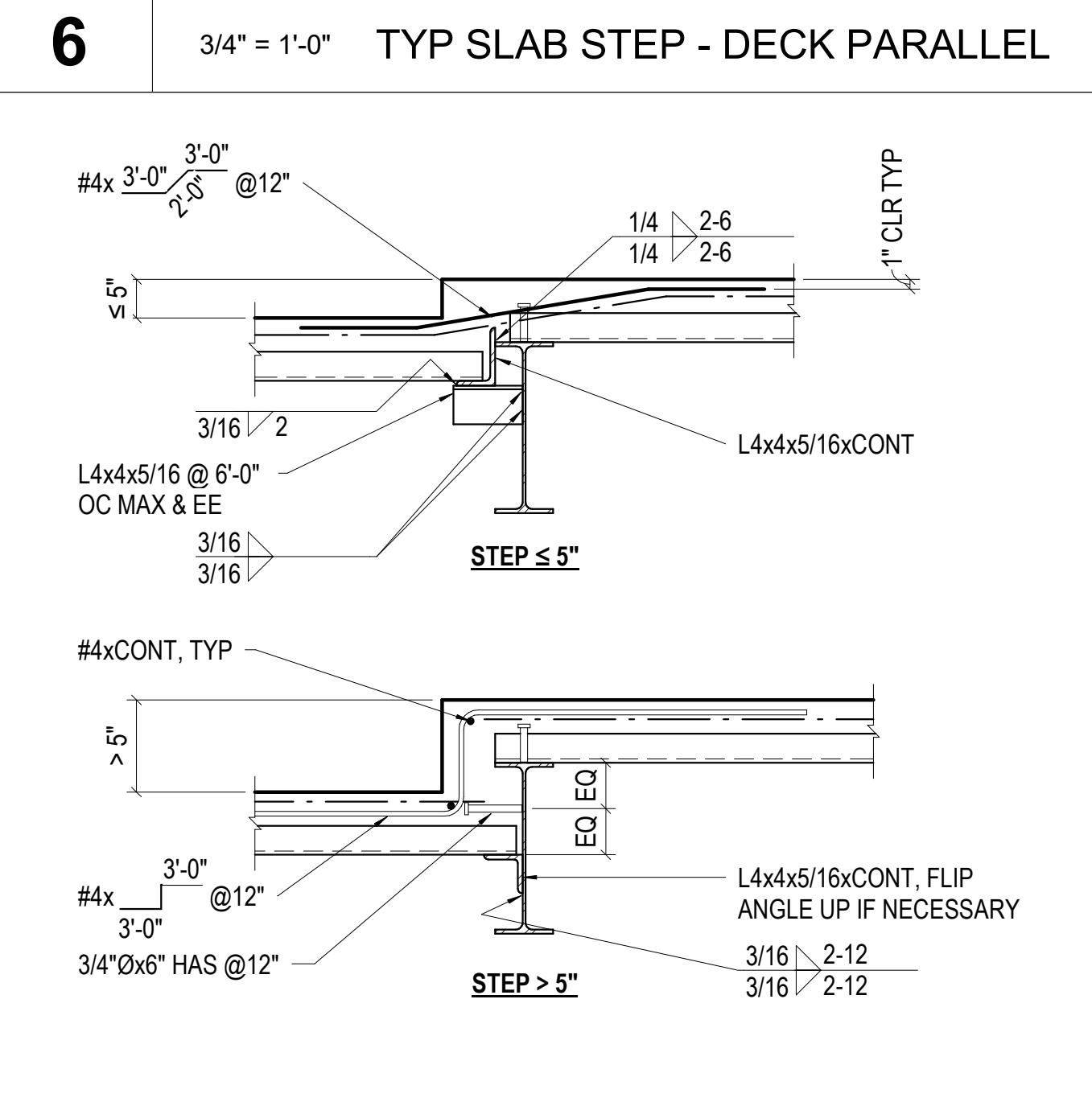
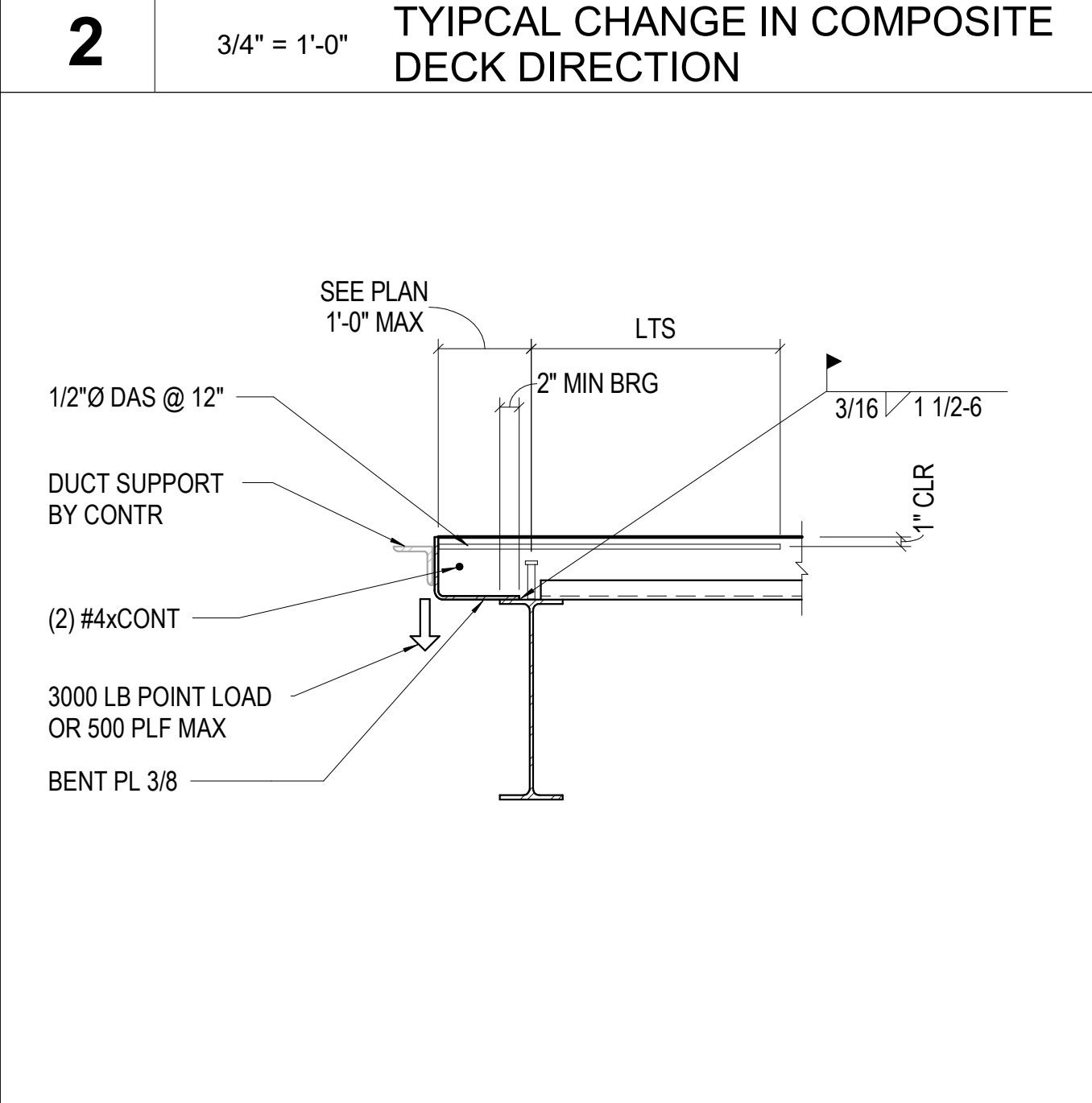
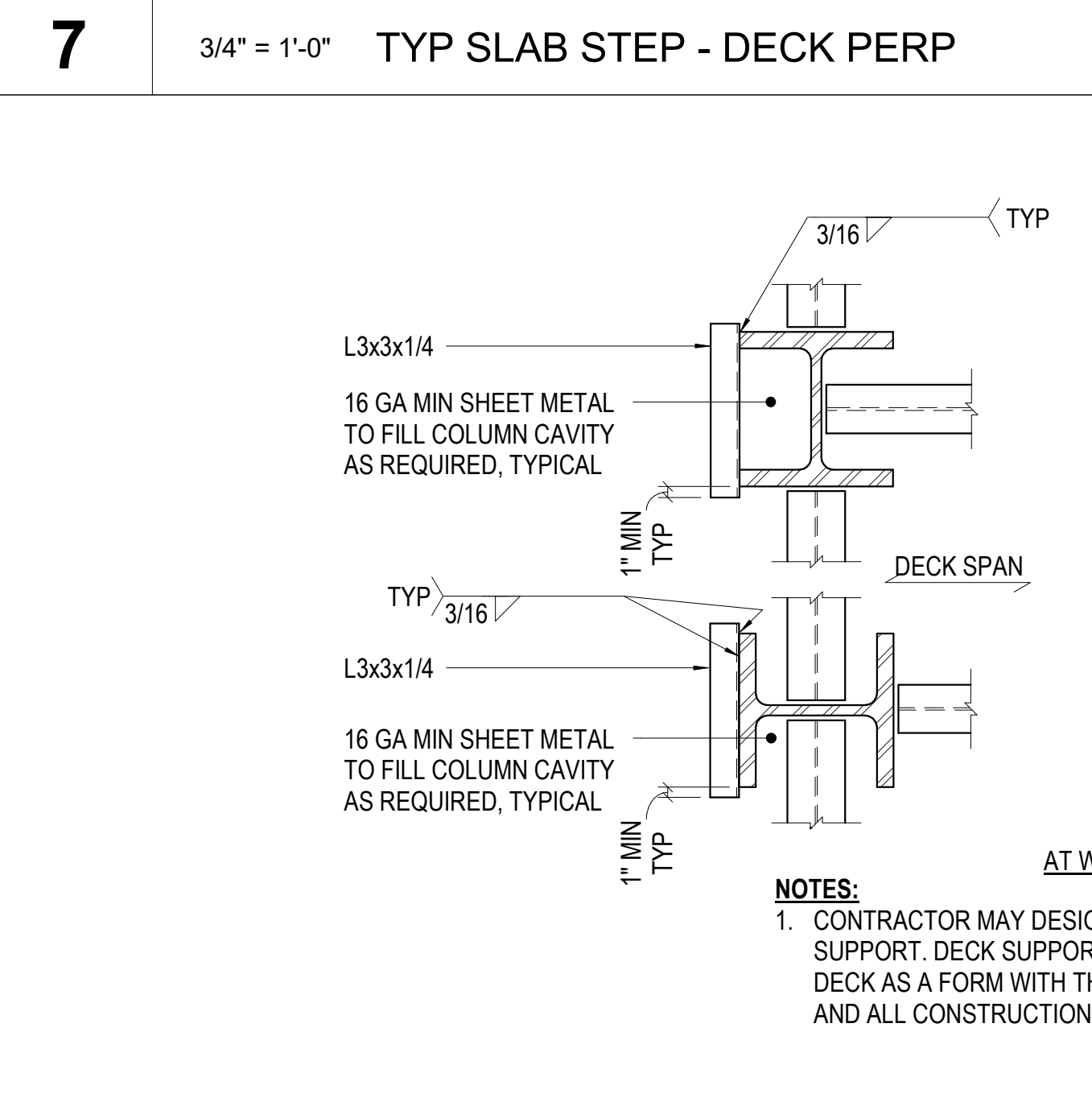
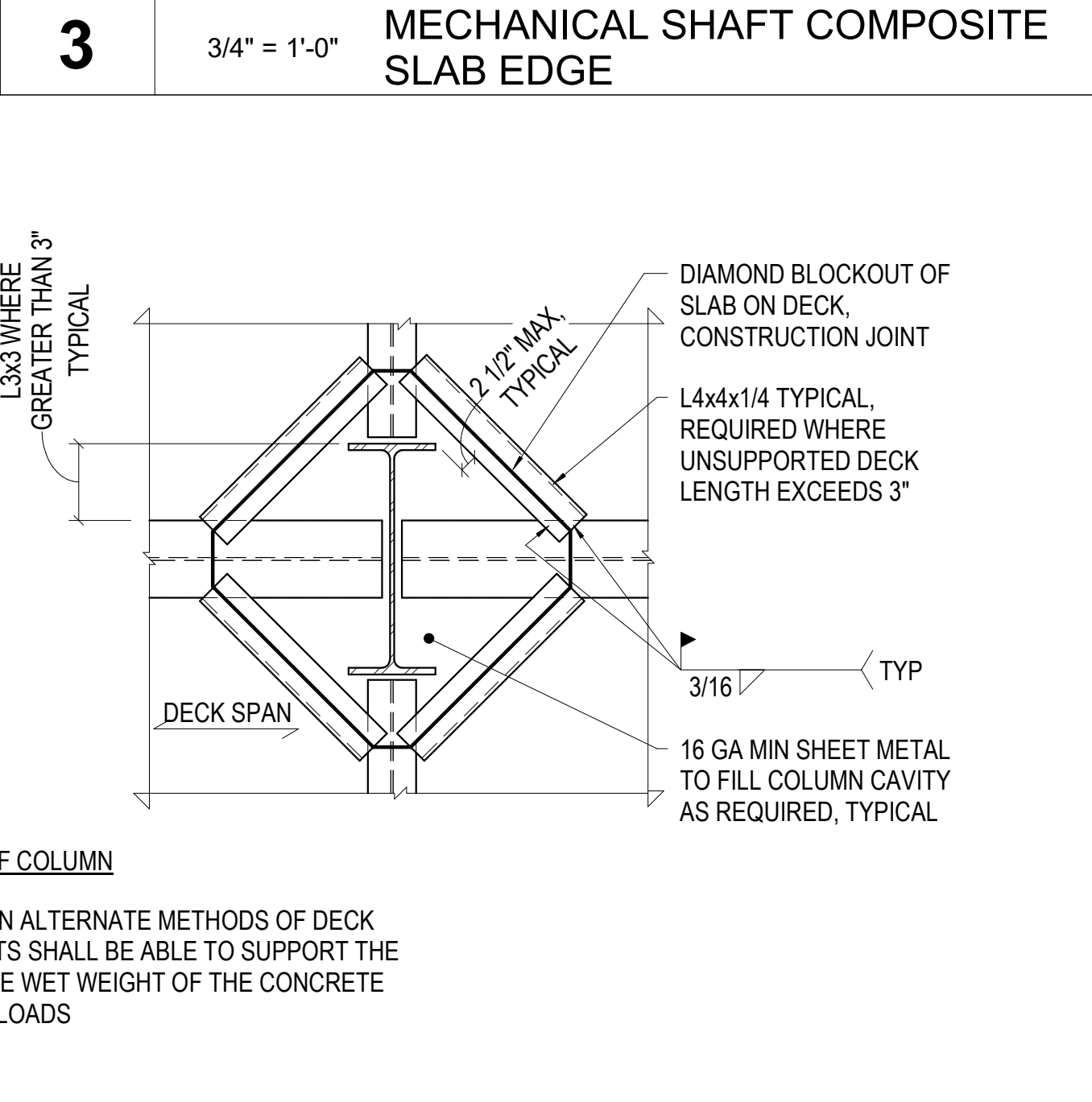


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Project Name	
SSRC BASE AREA IMPROVEMENTS	
Project Number	
20.1411.S.01	
Description	
STEEL DETAILS	
Scale	
3/4" = 1'-0"	

DESIGNER: NC MARTIN
LEAD REVIT TECH COLIN MONKES
DATE PRINTED: 5/19/2021 12:05:58 PM
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MIL JOB # 2014115.01
PRINCIPAL: KELLY KNOWLES
FOR: KELLY KNOWLES
PROJECT MANAGER: C. A. CHEN



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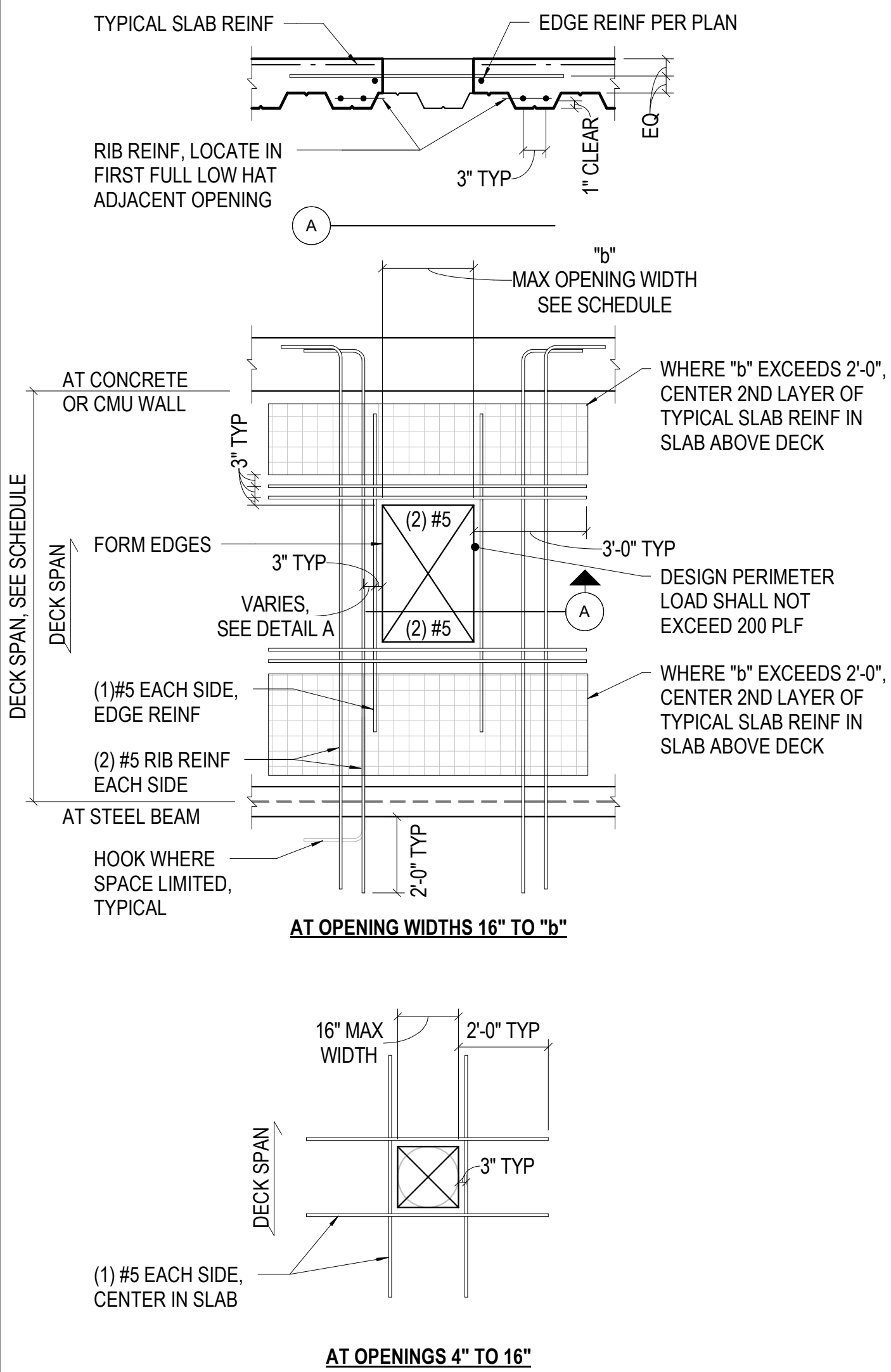
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Project Name	SSRC BASE AREA IMPROVEMENTS
Project Number	20.1411.S.01
Description	TYPICAL COMPOSITE SLAB DETAILS

Scale
3/4" = 1'-0"

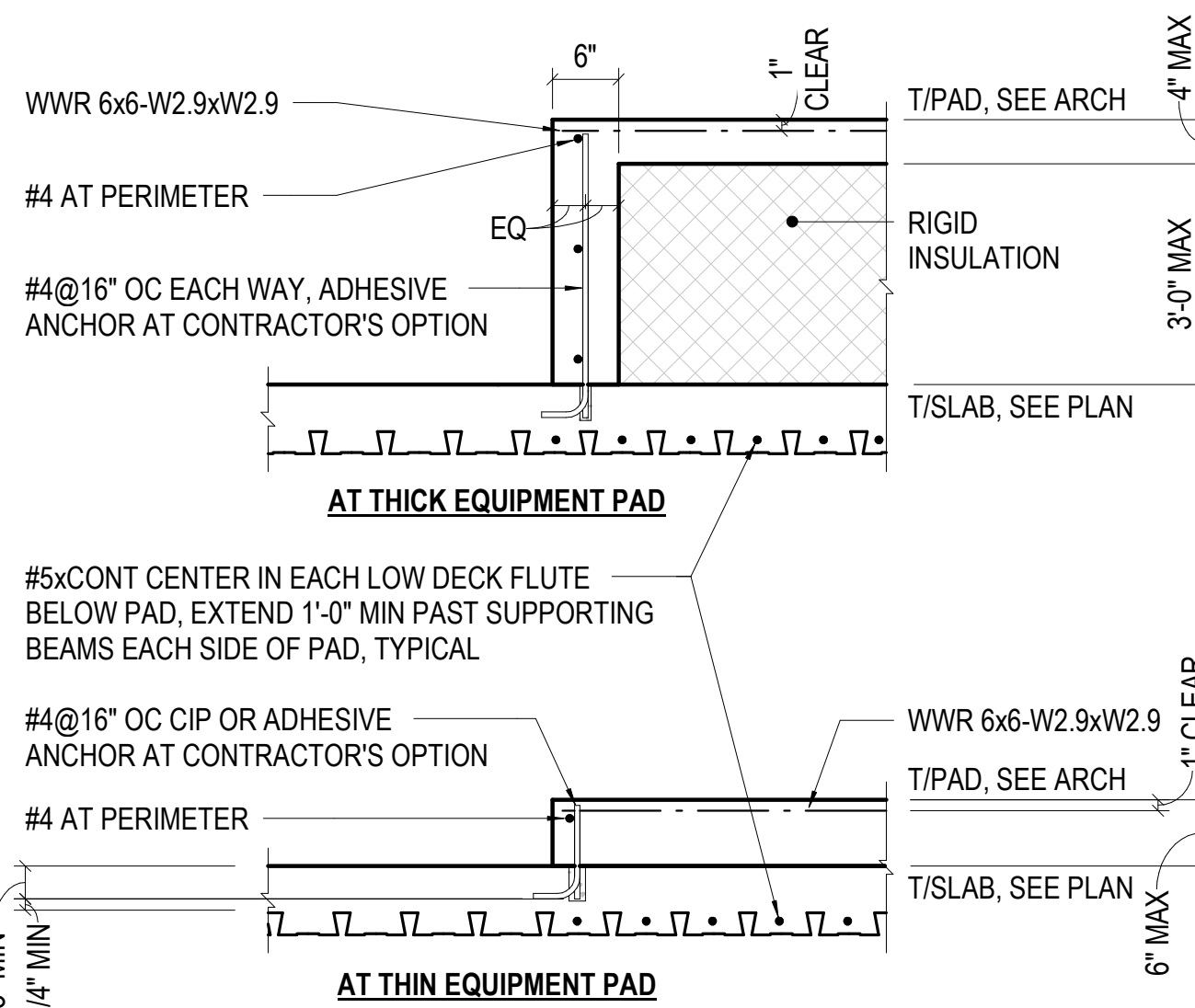
1A-S5.30

COMPOSITE SLAB PENETRATION REINFORCING				
SLAB TYPE	DECK SPAN (R)			
	LESS THAN 10'-0"	10'-0" TO 12'-0"	12'-0" TO 14'-0"	
	"b" - MAX OPENING WIDTH	"b" - MAX OPENING WIDTH	"b" - MAX OPENING WIDTH	
NORMAL WEIGHT	2VL1-4.5	4'-3"	3'-0"	2'-0"

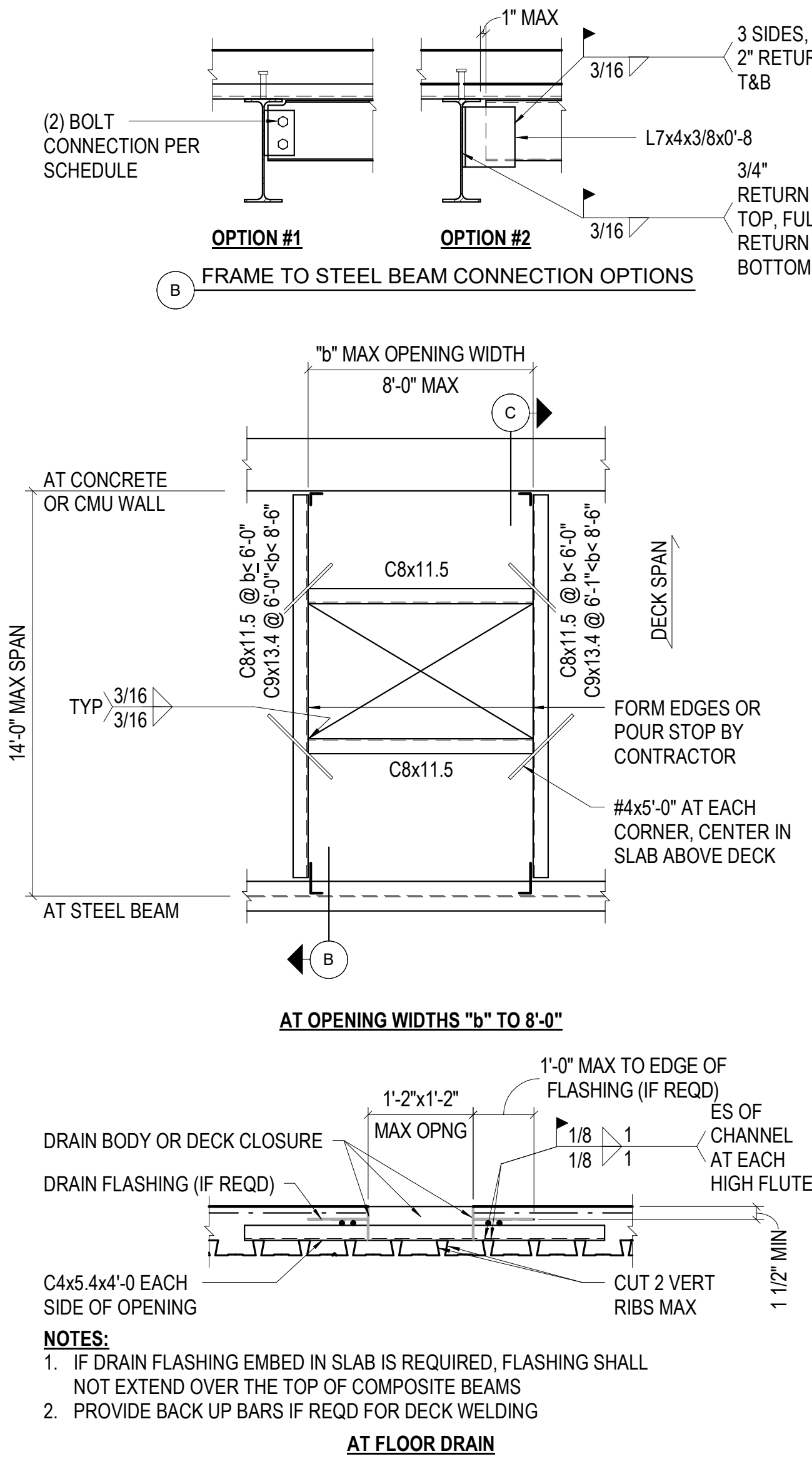


- NOTES:**
1. PLACE SLEEVES ON DECK PRIOR TO CONCRETE PLACEMENT
 2. DO NOT CUT DECK UNTIL CONCRETE HAS REACHED 75% f_c
 3. WHERE POSSIBLE ALIGN PENETRATIONS PARALLEL & PERPENDICULAR TO DECK SUCH THAT ONE EDGE OF PENETRATION ALIGNS IN EACH DIRECTION
 4. TREAT ADJACENT OPENINGS AS A SINGLE LARGE OPENING IF EITHER:
 - a. OPENINGS ARE ALIGNED PARALLEL TO DECK SPAN WITH LESS THAN 10" CLEAR OR
 - b. OPENINGS ARE ALIGNED PERPENDICULAR TO DECK SPAN WITH LESS THAN 20" CLEAR

19 NO SCALE SLAB ON METAL DECK PENETRATIONS AND SLAB OPENINGS



- NOTES:**
1. COORDINATE PAD WITH ARCH/MECH/ELEC DRAWINGS AND EQUIPMENT SUPPLIER FOR SIZE, THICKNESS, AND LOCATIONS

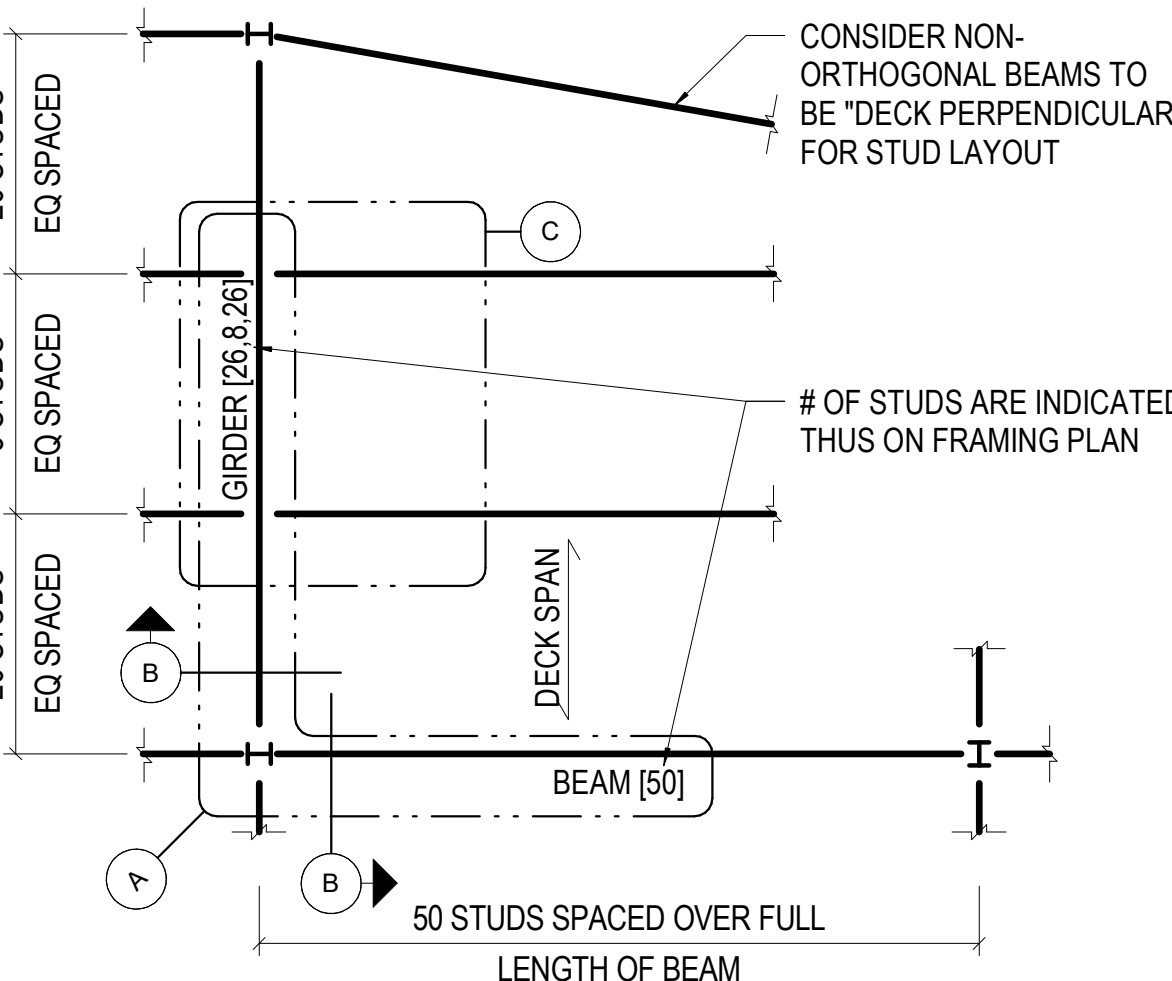


- NOTES:**
5. NO PENETRATION REINFORCING IS REQUIRED AT:
 - a. SLEEVES 4"Ø OR SMALLER
 - b. SLEEVES 4"Ø OR SMALLER ALIGNED PARALLEL TO DECK SPAN
 - c. SLEEVES 4"Ø OR SMALLER IF SPACED GREATER THAN 20" PERPENDICULAR TO DECK SPAN; IF SPACING BETWEEN OPENINGS PERPENDICULAR TO DECK SPAN DOES NOT EXCEED 20", REINFORCE AS A SINGLE OPENING

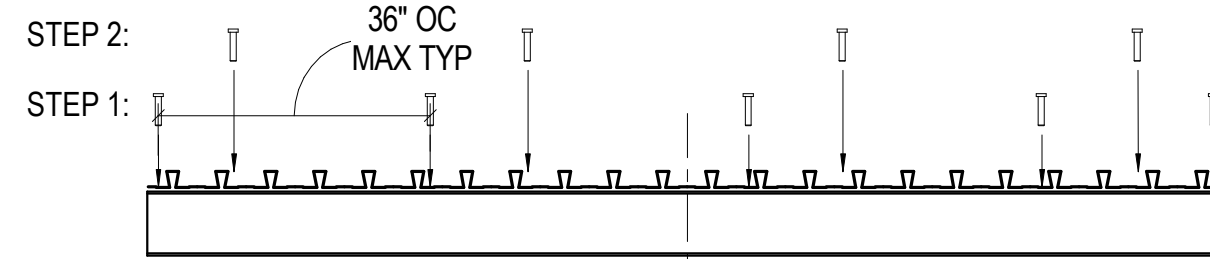
- NOTES:**
1. COORDINATE CURB WITH ARCH/MECH/ELEC DRAWINGS AND EQUIPMENT SUPPLIER FOR SIZE, THICKNESS, AND LOCATIONS

SLAB ON METAL DECK CONNECTION SCHEDULE						
TYPE	PERPENDICULAR SUPPORT MEMBERS		PARALLEL SUPPORT MEMBERS		SIDELAPS	
	CONNECTION	PATTERN	CONN	PATTERN	CONN	PATTERN
A	3/4"Ø PUDDLE WELDS	36/4 AT VL DECK 30/4 AT 0.6C DECK 32/4 AT 1.0C DECK 32/4 AT 1.3C DECK	3/4"Ø PUDDLE WELDS	12" OC	#10 SCREW	3'-0" OC

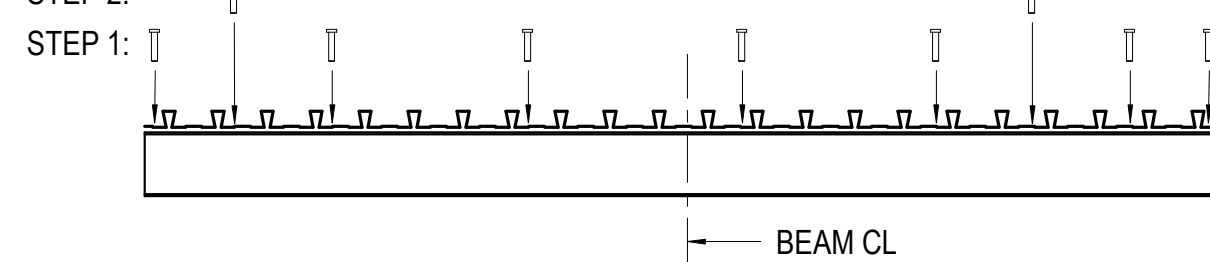
- NOTES:**
1. SHEAR STUDS MAY REPLACE PUDDLE WELDS ONE-FOR-ONE



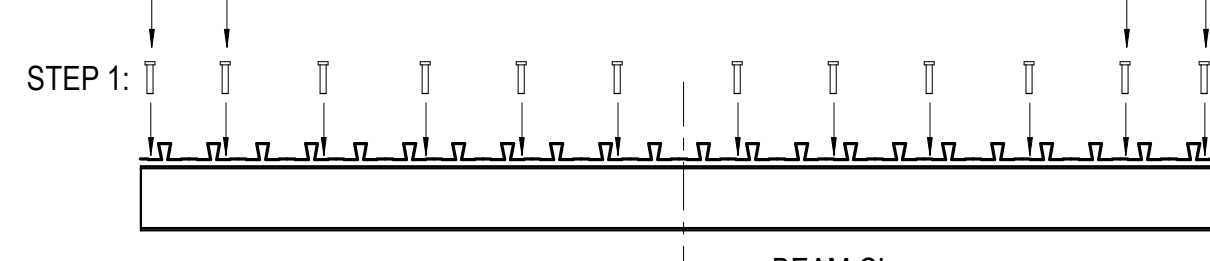
- CASE 1: # STUDS < # RIBS/2**
- STEP 1 = ONE STUD EVERY THIRD RIB
- STEP 2 = 1/2 OF REMAINING STUDS AT EACH END OF BEAM, PLACE IN EVERY OTHER EMPTY RIB STARTING FROM EACH END OF BEAM



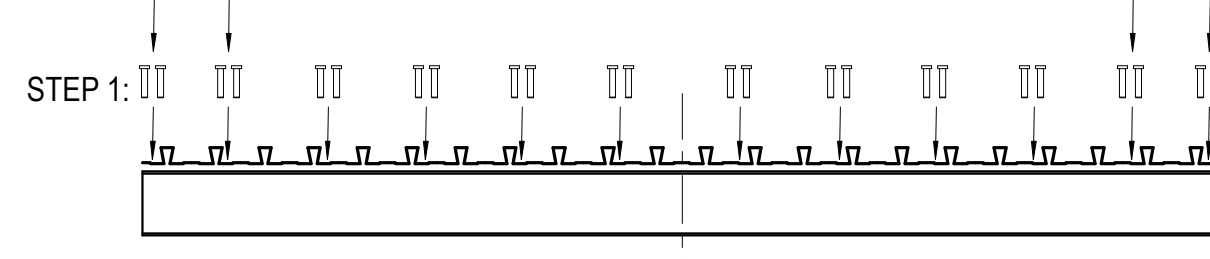
- CASE 2: # STUDS < # RIBS**
- STEP 1 = ONE STUD EVERY OTHER RIB
- STEP 2 = 1/2 OF REMAINING STUDS AT EACH END OF BEAM, PLACE IN EMPTY RIBS STARTING FROM EACH END OF BEAM



- CASE 3: # RIBS < # STUDS < 2x # RIBS**
- STEP 1 = ONE STUD EVERY RIB
- STEP 2 = 1/2 OF REMAINING STUDS AT EACH END OF BEAM, PLACE ONE IN EACH RIB STARTING FROM EACH END OF BEAM



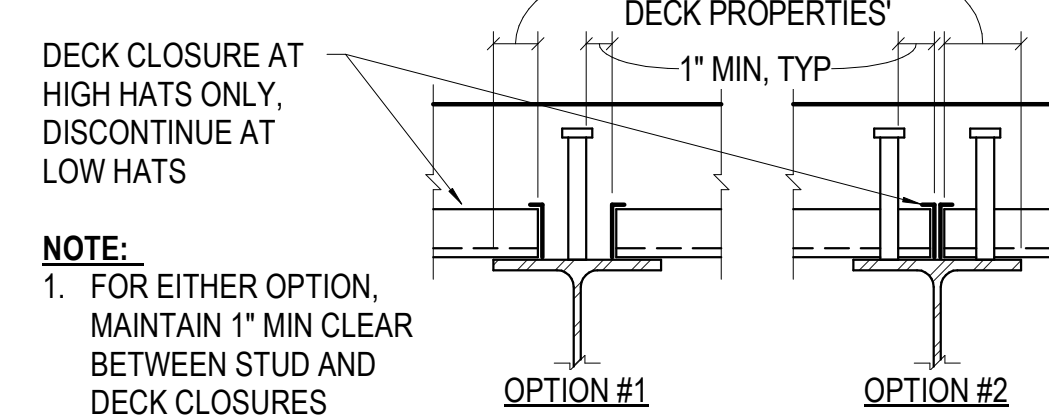
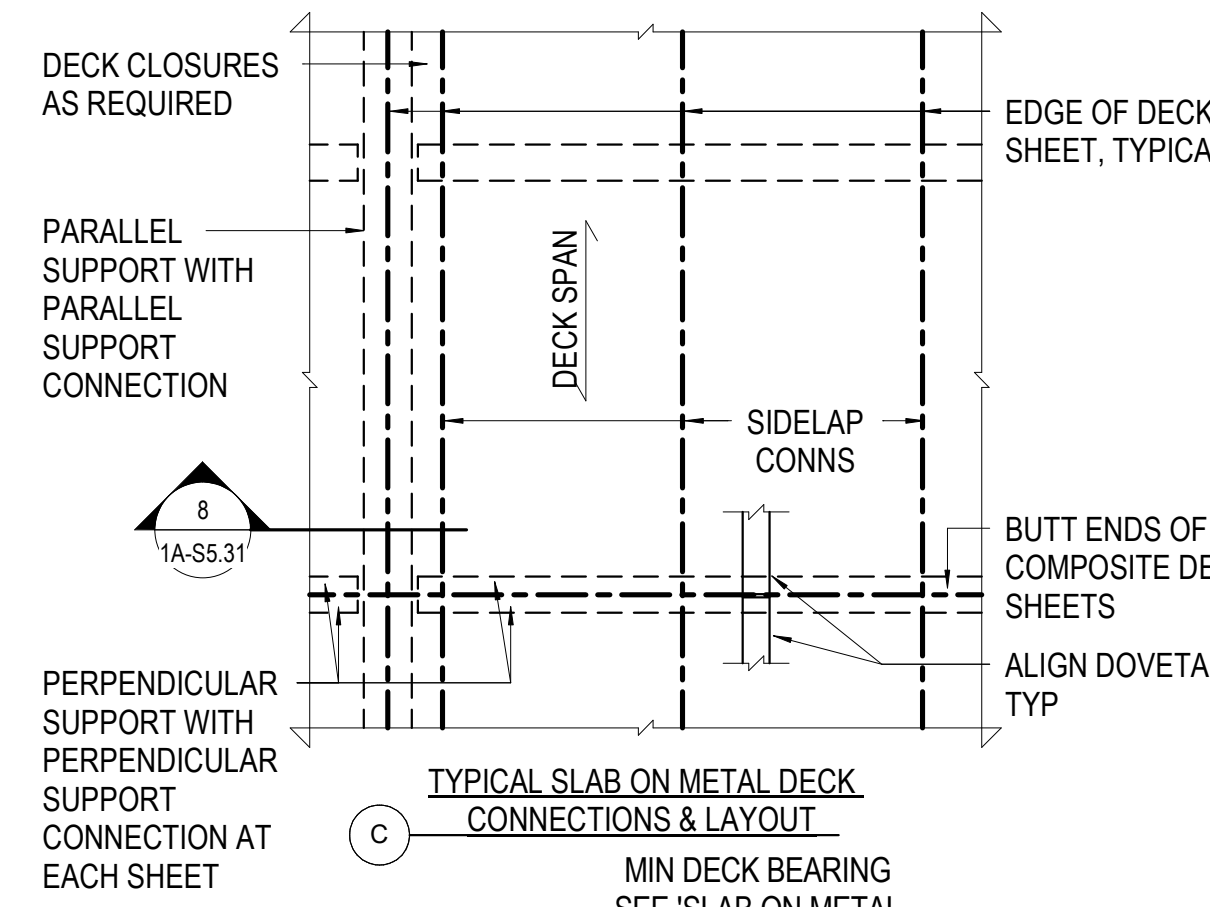
- CASE 4: # STUDS > 2x # RIBS**
- STEP 1 = TWO STUDS EVERY RIB
- STEP 2 = 1/2 OF REMAINING STUDS AT EACH END OF BEAM, PLACE ONE IN EACH RIB STARTING FROM EACH END OF BEAM



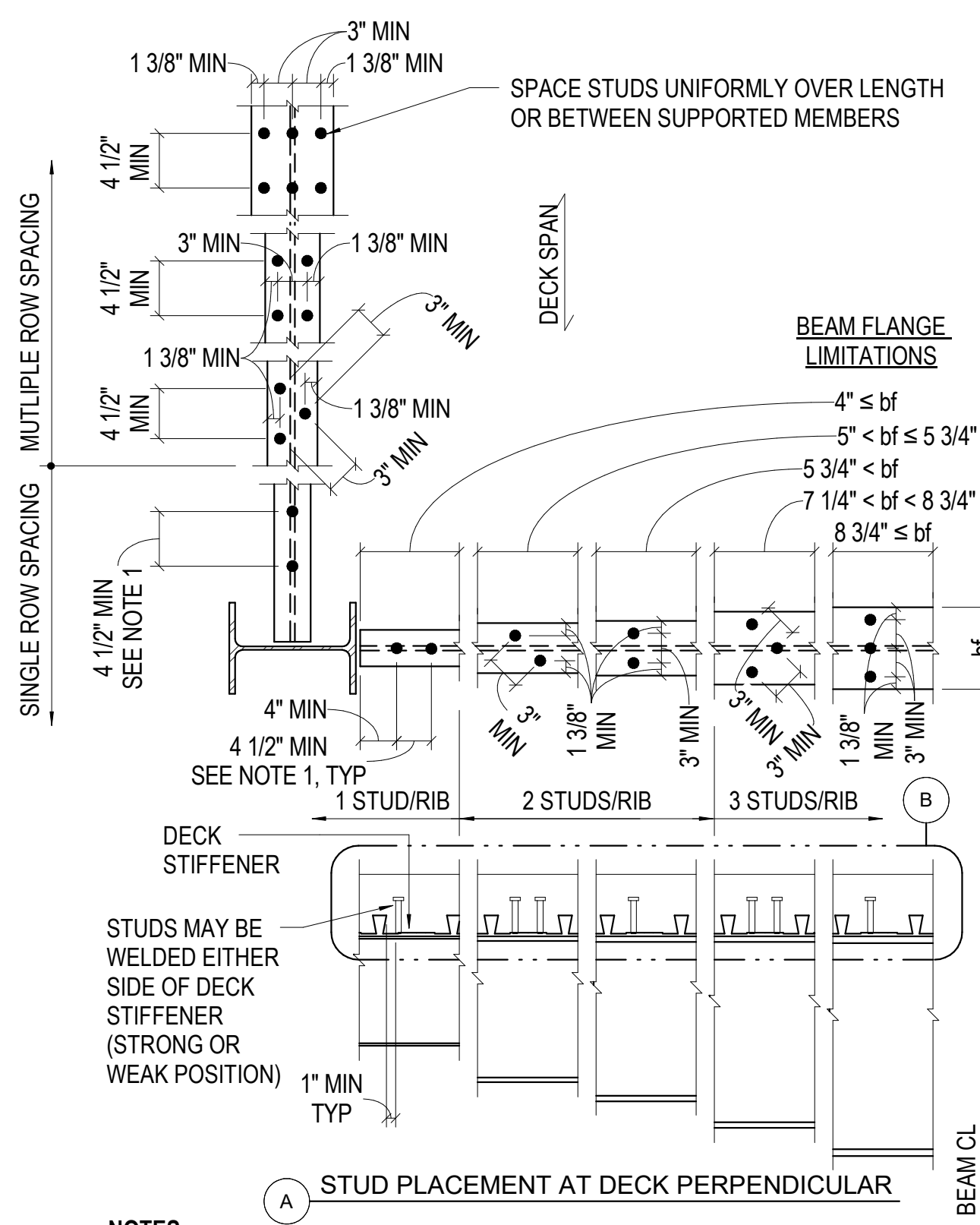
B STUD LAYOUT AT DECK PERPENDICULAR

SLAB ON METAL DECK PROPERTIES							
DECK TYPE	DECK DEPTH (IN)	DECK GAUGE	DECK Fy (KSI)	I POS (IN ⁴ /FT)	S POS (IN ³ /FT)	S NEG (IN ³ /FT)	MINIMUM DECK BEARINGS (IN)
2" EPICORE	2	20	50	0.47	0.34	0.31	2 4
2" EPICORE	2	18	50	0.63	0.47	0.43	2 4

- NOTES:**
1. COMPOSITE METAL DECK SPECIFIED IS MANUFACTURED BY EPICORE. ALTERNATE COMPOSITE METAL DECK MAY BE SUPPLIED PROVIDED MINIMUM DECK PROPERTIES ARE SATISFIED AND THE RATIO OF THE RIB WIDTH MEASURED AT MID HEIGHT OF DECK TO RIB HEIGHT IS NO LESS THAN 1.5.

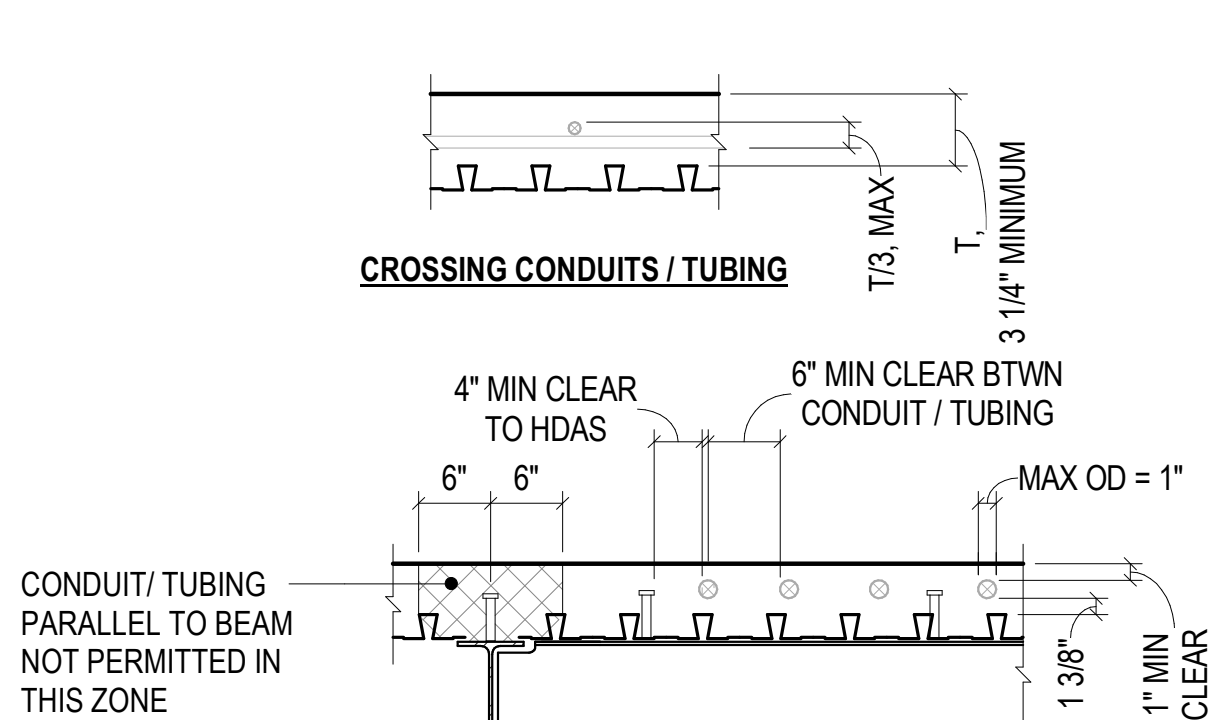


- NOTE:**
1. FOR EITHER OPTION, MAINTAIN 1" MIN CLEAR BETWEEN STUD AND DECK CLOSURES

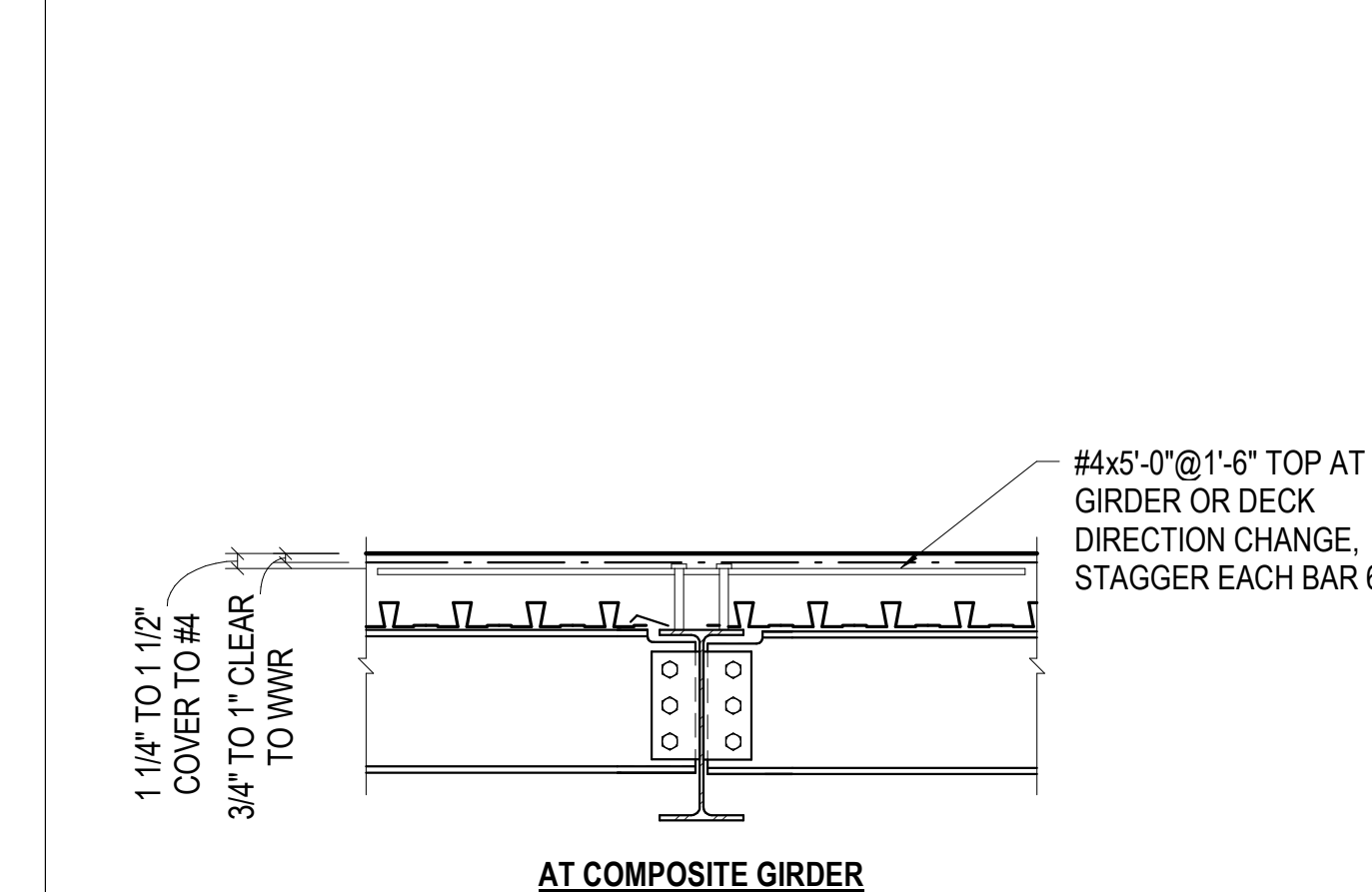


- NOTES:**
1. PROVIDE STUDS AT 12" MAX WHERE NUMBER OF STUDS IS NOT INDICATED

11 NO SCALE TYPICAL SLAB ON METAL DECK SCHEDULE, DECK LAYOUT AND STUD LAYOUT



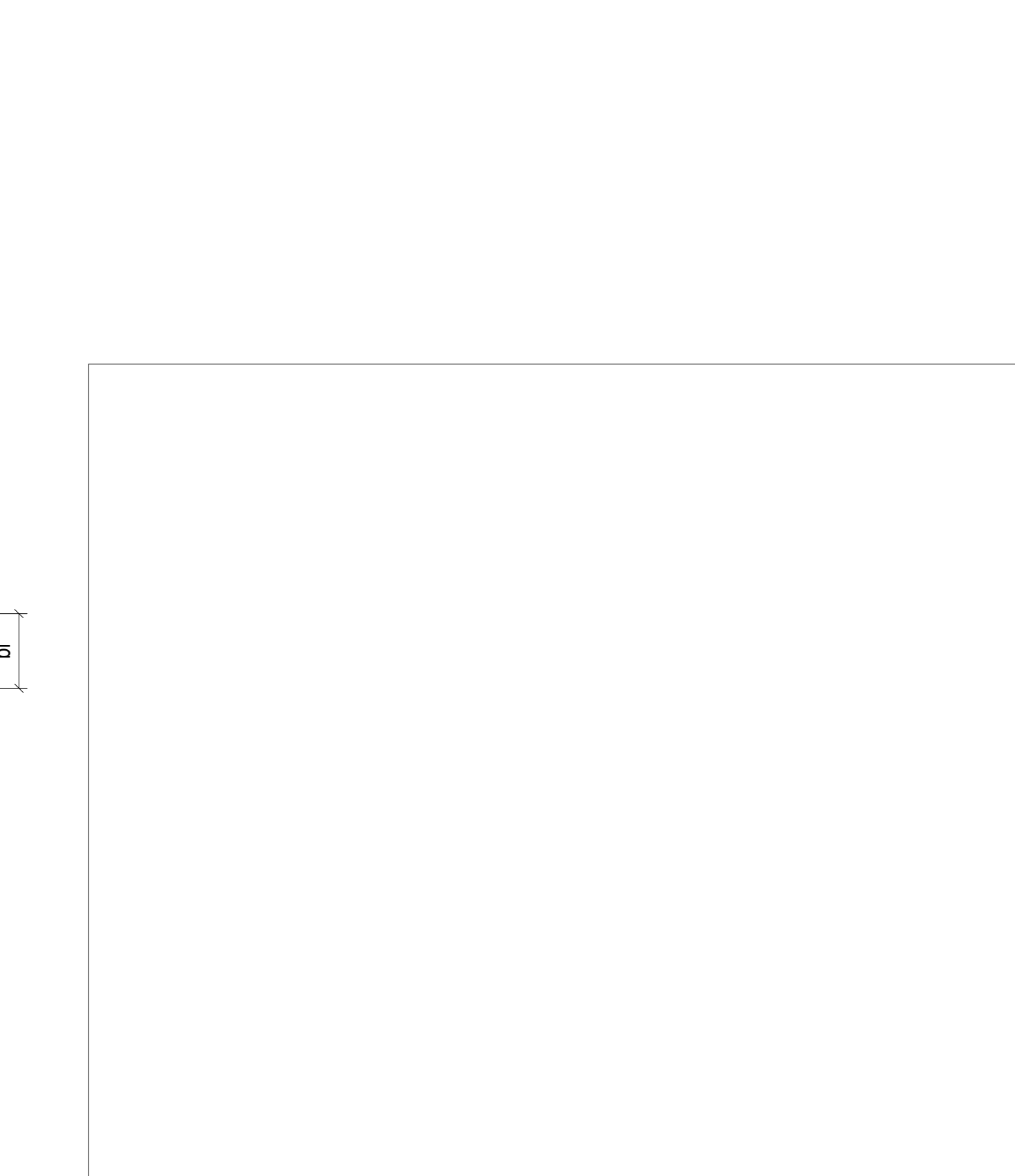
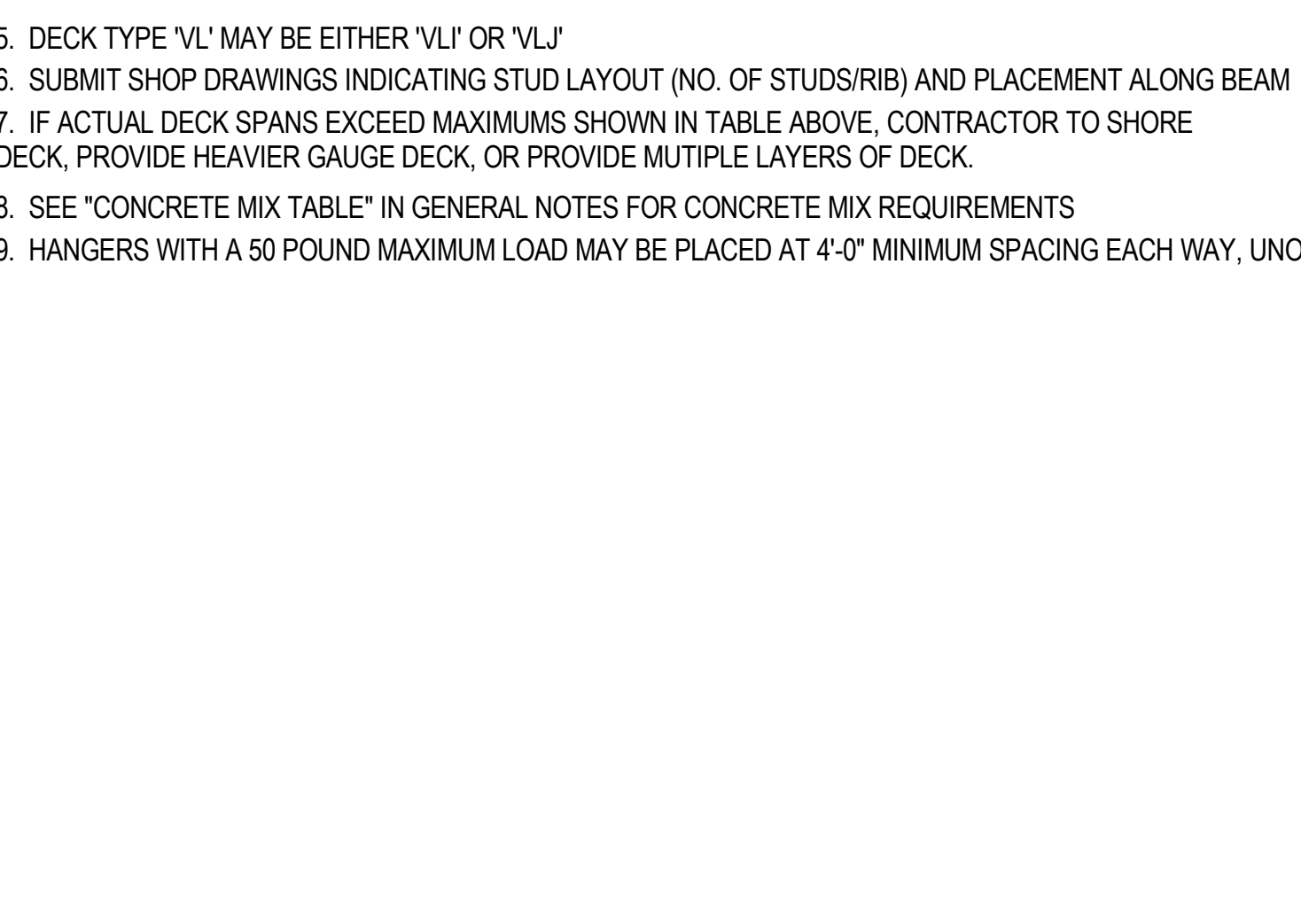
- NOTES:**
1. AS CONDUIT / TUBING NEARS JUNCTION BOXES / ROOMS AND MINIMUM SPACING REQUIREMENTS SHOWN ABOVE CANNOT BE MAINTAINED:
 - a. TURN CONDUIT / TUBING DOWN THROUGH THE BOTTOM OF DECK AT LOCATION OF 6" CLEAR SPACING BETWEEN CONDUITS / TUBING
 - b. ROUTE CONDUIT / TUBING BELOW DECK TO JUNCTION BOX / ROOM
 - c. ROUTE CONDUITS / TUBING UP THROUGH FLOOR TO PANELS / MANIFOLDS AT FLOOR PENETRATIONS MEETING REQUIREMENTS OF DETAIL 19/1A-S5.31
 2. ALUMINUM CONDUIT / TUBING IS NOT PERMITTED IN ANY CONCRETE
 3. NO CONDUIT / TUBING PERMITTED IN FLOORS SUBJECTED TO FREQUENT PALLET JACK USE



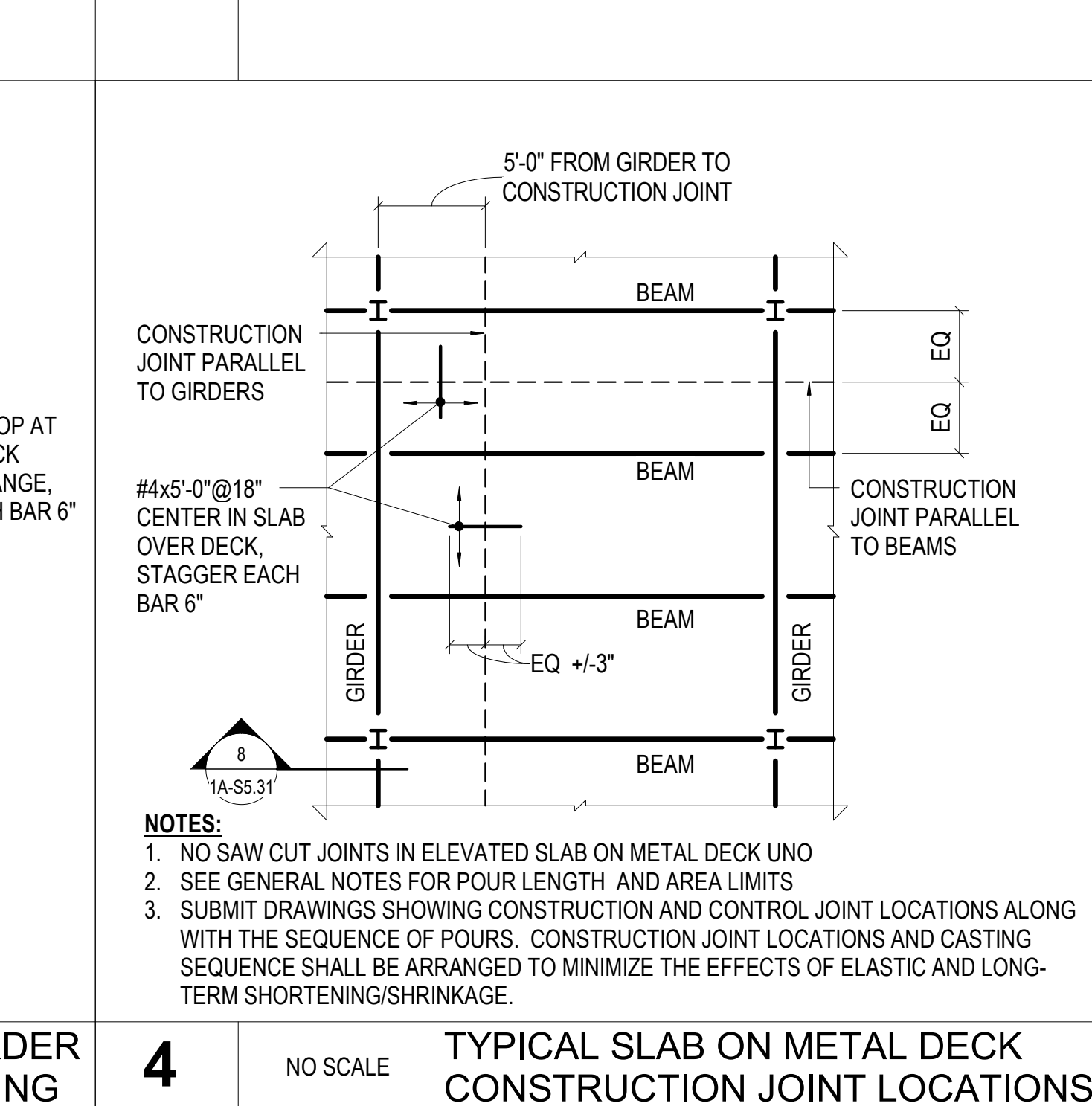
- NOTES:**
1. NO SAW CUT JOINTS IN ELEVATED SLAB ON METAL DECK UNO
 2. SEE GENERAL NOTES FOR POUR LENGTH AND AREA LIMITS
 3. SUBMIT DRAWINGS SHOWING CONSTRUCTION AND CONTROL JOINT LOCATIONS ALONG WITH THE SEQUENCE OF POURS. CONSTRUCTION JOINT LOCATIONS AND CASTING SEQUENCE SHALL BE ARRANGED TO MINIMIZE THE EFFECTS OF ELASTIC AND LONG-TERM SHORTENING/SHRINKAGE.

SLAB ON METAL DECK SCHEDULE									
SLAB MARK	DECK		CONCRETE				MAXIMUM UNSHORED DECK SPAN		
	TYPE	GAGE	CONC ABOVE DECK (IN)	TOTAL THK (IN)	CONC TYPE (SEE NOTE 8)	SLAB REINF	1 SPAN	2 SPAN	3 SPAN
2E3.25-20A	2" EPICORE	20	3 1/4	5 1/4	3 (NWC)	#4@18" EW	7'-5"	7'-10"	8'-1"
2E3.25-18A	2" EPICORE	18	3 1/4	5 1/4	3 (NWC)	#4@18" EW	9'-0"	9'-3"	9'-6"
2E3.25-20B	2" EPICORE	20	3 1/4	5 1/4	3 (NWC)	6x6-W2.5xW2.5 WWR	7'-5"	7'-10"	8'-1"

- NOTES:**
1. AT COMPOSITE SYSTEMS, NET-IN-PLACE LENGTH OF SHEAR STUDS SHALL MEET THE FOLLOWING:
 - 1 1/2" MIN ABOVE T/DECK
 - 1" MIN BELOW T/CONCRETE
 2. SEE SPECIFICATIONS FOR FLOOR FINISH & FLATNESS REQUIREMENTS
 3. INSTALL DECK OVER 4 SUPPORTS (3 SPAN CONTINUOUS) WHERE POSSIBLE
 4. COMPOSITE DECK DESIGN IS SIZED BASED UPON THE FOLLOWING MAXIMUM CONDITIONS:
 - a. DECK DEFLECTION = 1/2"
 - b. AVERAGE SLAB THICKNESS INCREASED BY 1/2" FOR LEVELING
 - c. CONSTRUCTION LIVE LOAD = 20 PSF. IF CONSTRUCTION LIVE LOAD EXCEEDS 20 PSF, CONTRACTOR SHALL DESIGN FOR INCREASED LOADING
 - d. NORMAL WEIGHT CONCRETE: 150 PCF WET WEIGHT, 145 PCF DRY WEIGHT
 5. DECK TYPE 'VL' MAY BE EITHER 'VL1' OR 'VLJ'
 6. SUBMIT SHOP DRAWINGS INDICATING STUD LAYOUT (NO. OF STUDS/RIB) AND PLACEMENT ALONG BEAM
 7. IF ACTUAL DECK SPANS EXCEED MAXIMUMS SHOWN IN TABLE ABOVE, CONTRACTOR TO SHORE DECK, PROVIDE HEAVIER GAUGE DECK, OR PROVIDE MULTIPLE LAYERS OF DECK.
 8. SEE "CONCRETE MIX TABLE" IN GENERAL NOTES FOR CONCRETE MIX REQUIREMENTS
 9. HANGERS WITH A 50 POUND MAXIMUM LOAD MAY BE PLACED AT 4'-0" MINIMUM SPACING EACH WAY, UNO



- NOTES:**
1. PROVIDE STUDS AT 12" MAX WHERE NUMBER OF STUDS IS NOT INDICATED



- NOTES:**
1. NO SAW CUT JOINTS IN ELEVATED SLAB ON METAL DECK UNO
 2. SEE GENERAL NOTES FOR POUR LENGTH AND AREA LIMITS
 3. SUBMIT DRAWINGS SHOWING CONSTRUCTION AND CONTROL JOINT LOCATIONS ALONG WITH THE SEQUENCE OF POURS. CONSTRUCTION JOINT LOCATIONS AND CASTING SEQUENCE SHALL BE ARRANGED TO MINIMIZE THE EFFECTS OF ELASTIC AND LONG-TERM SHORTENING/SHRINKAGE.

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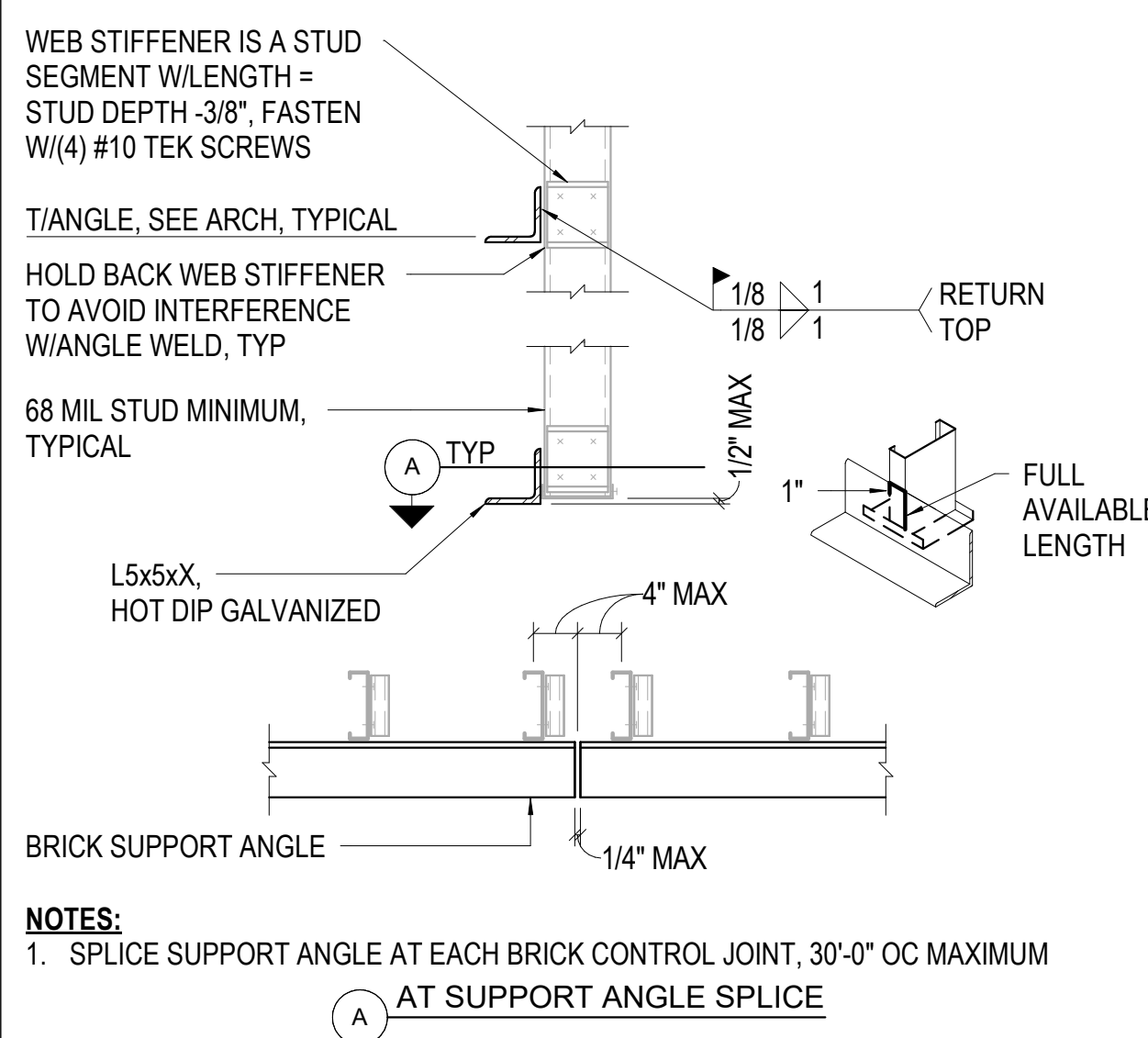
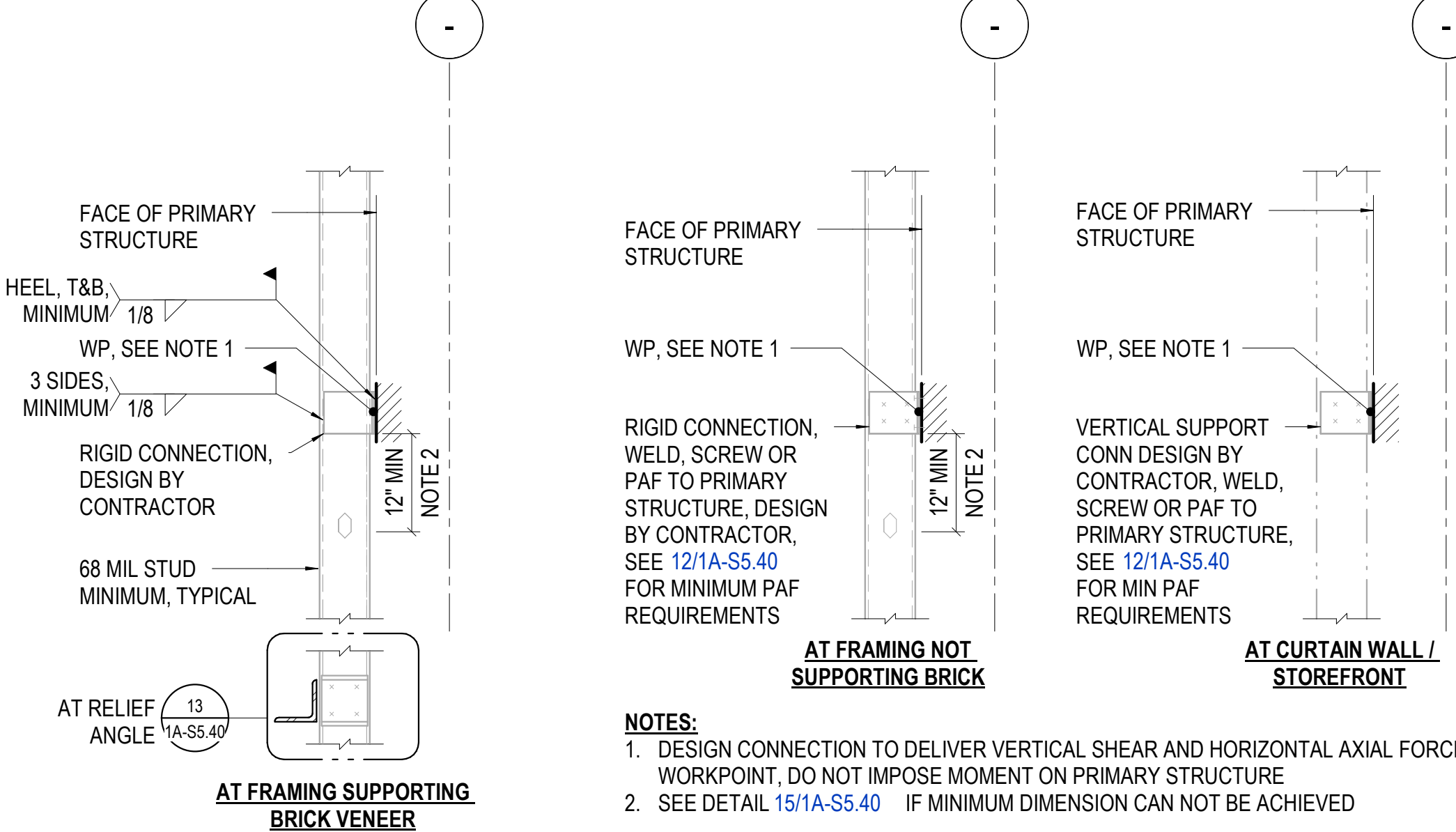
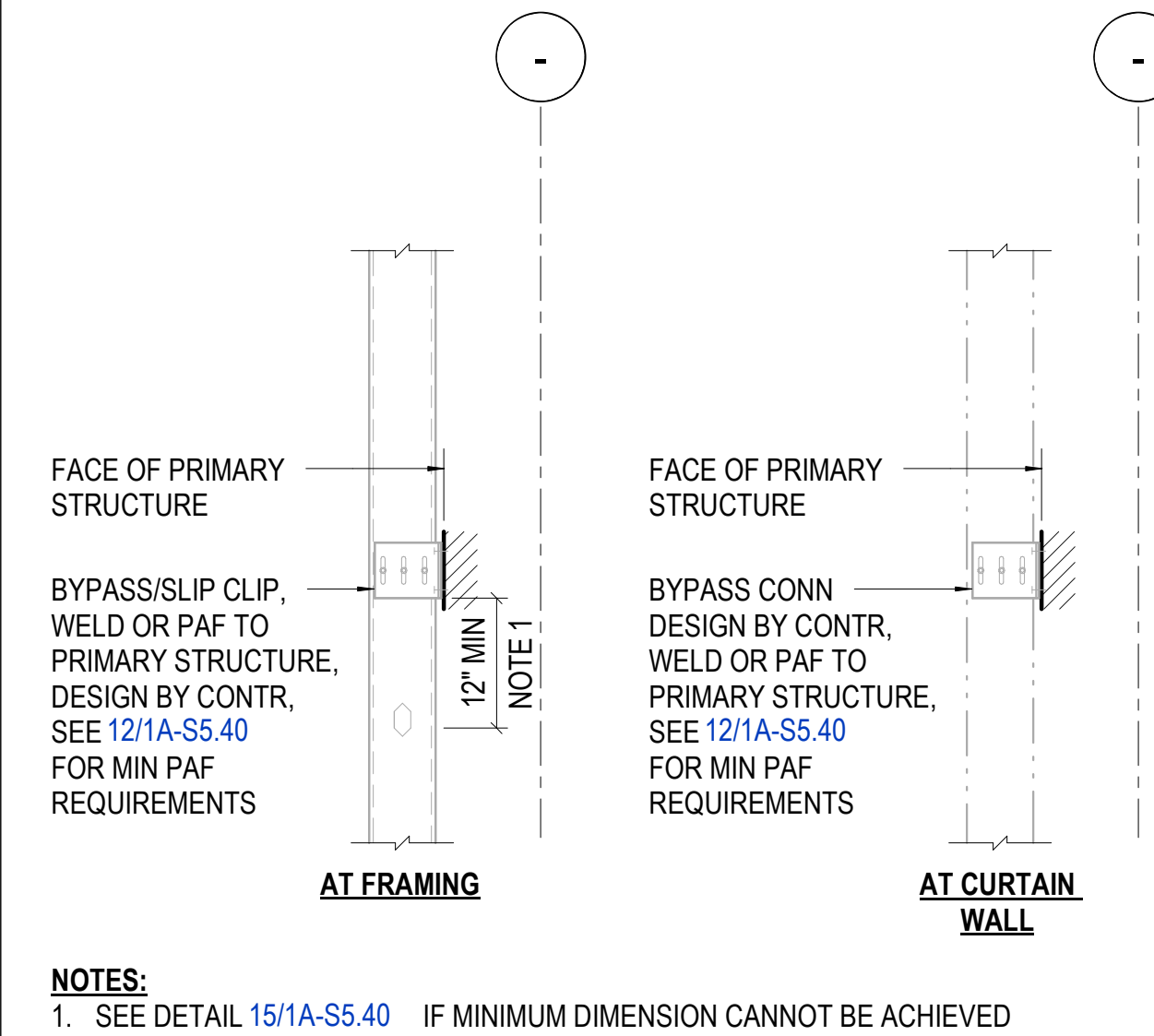
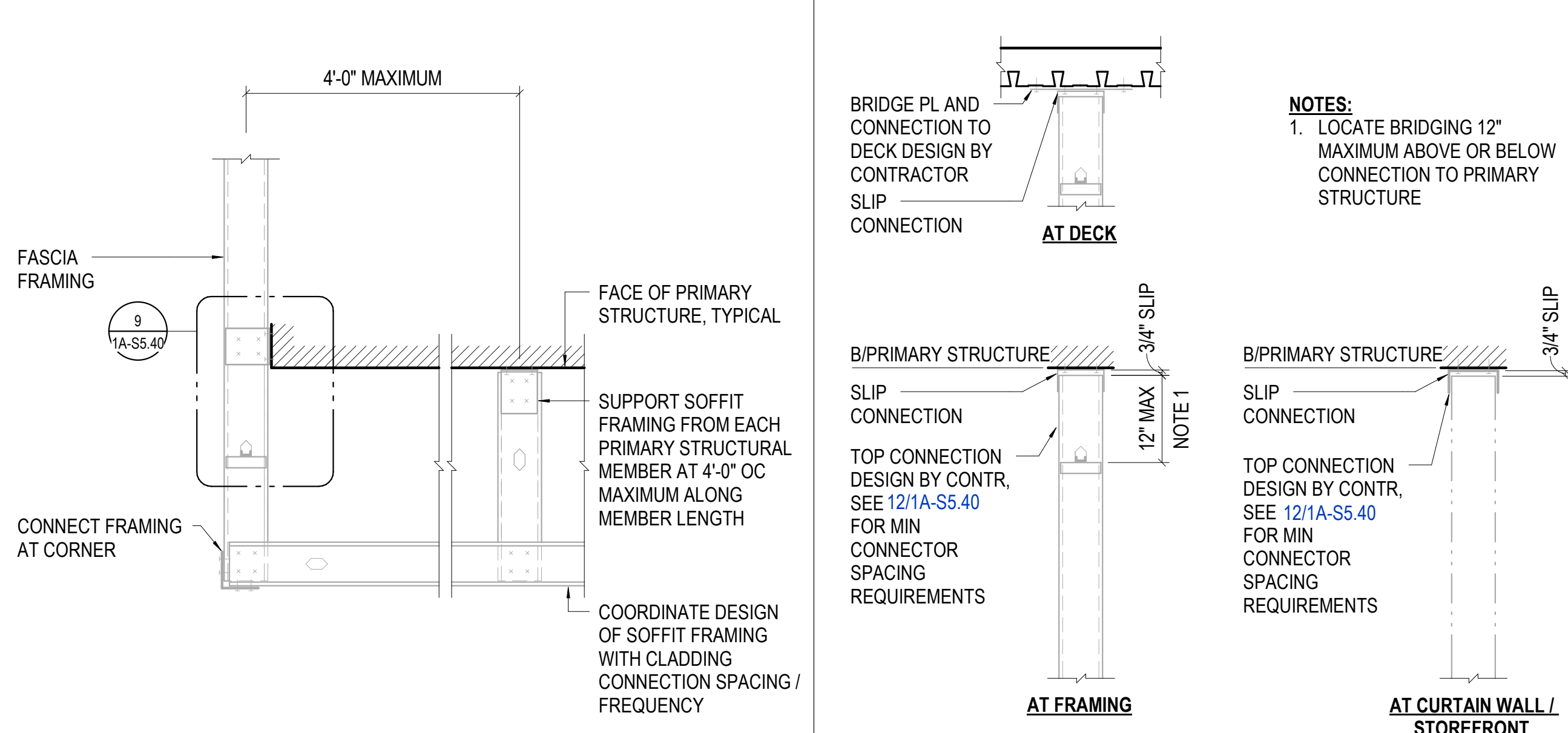
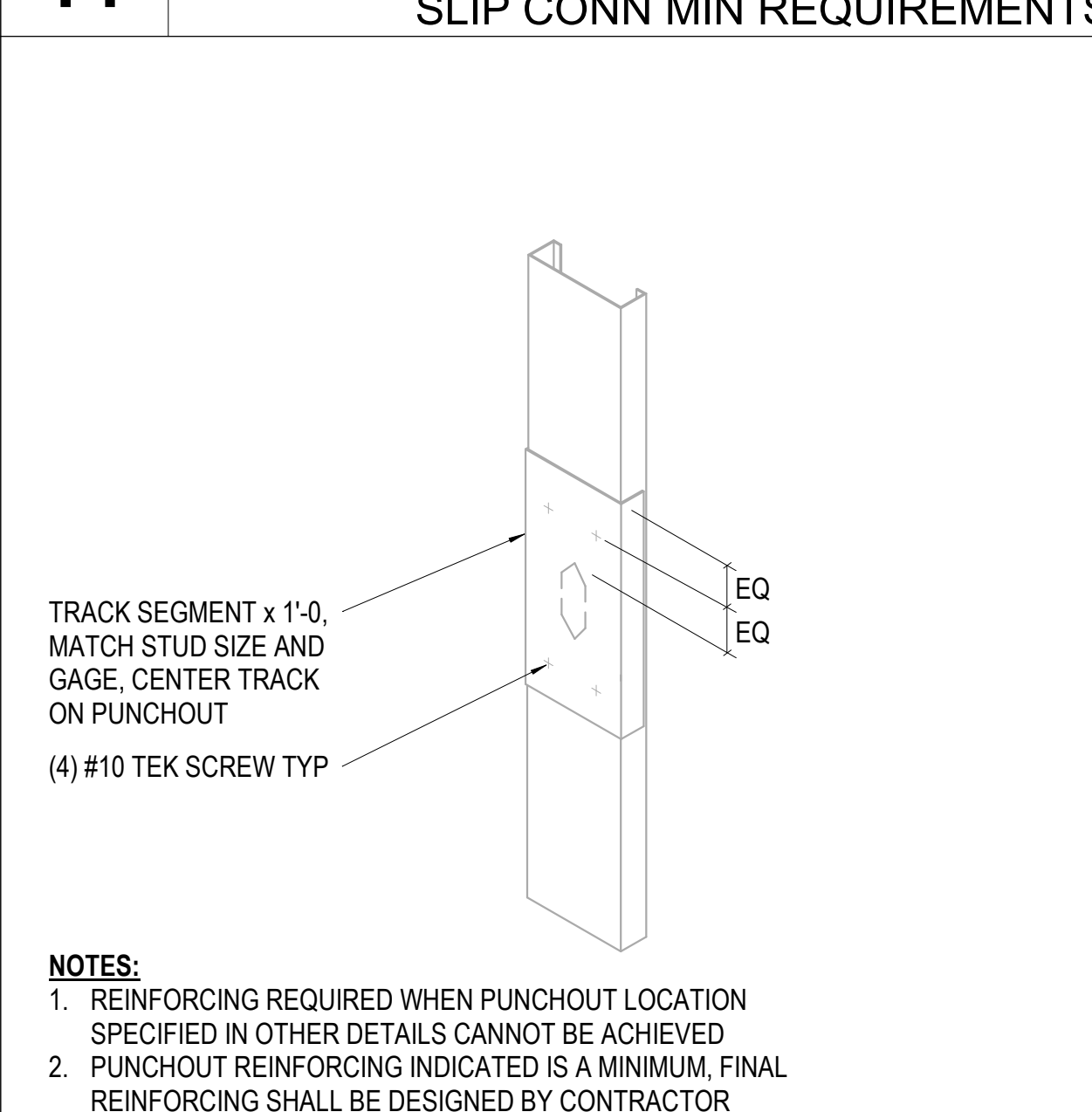
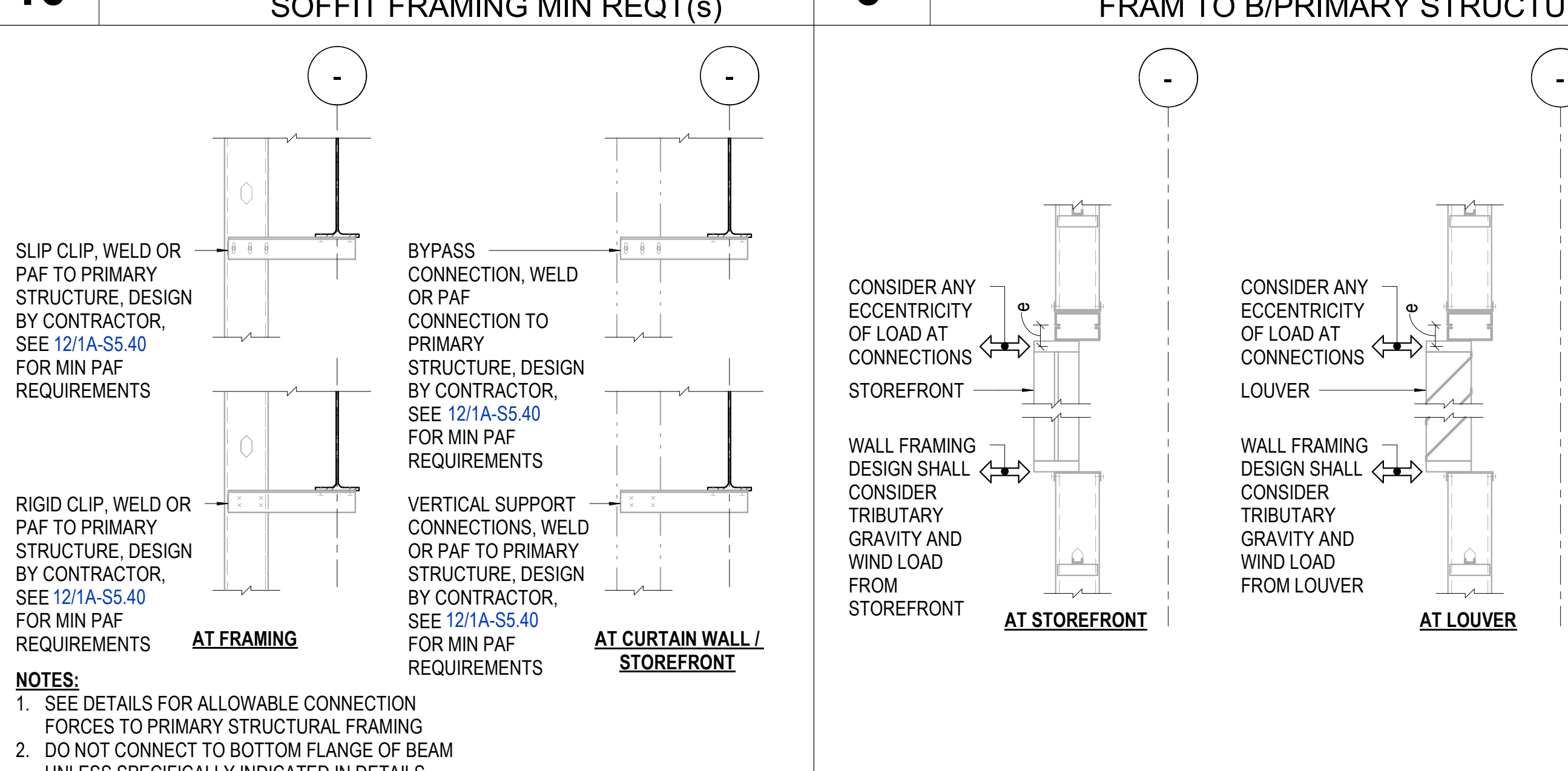
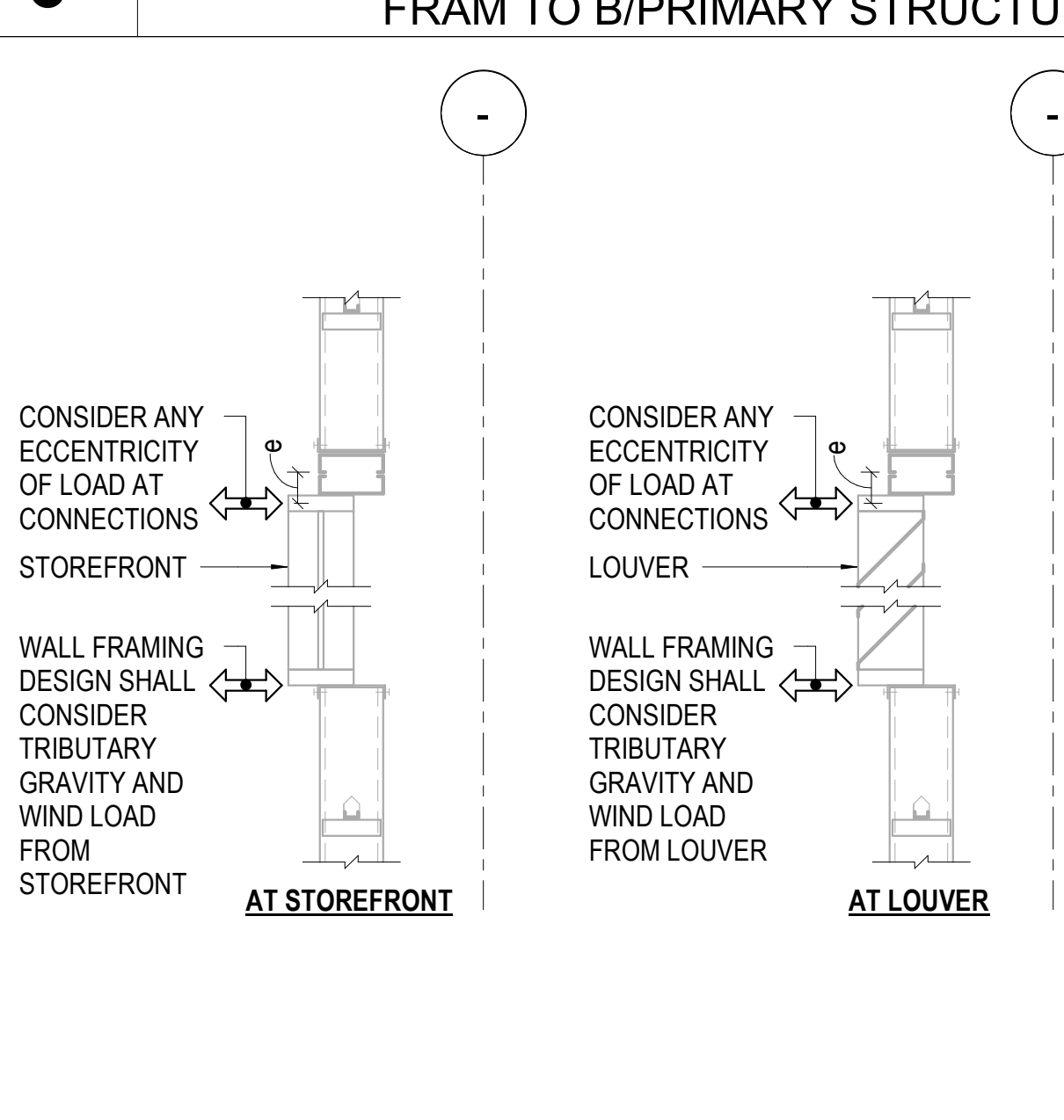
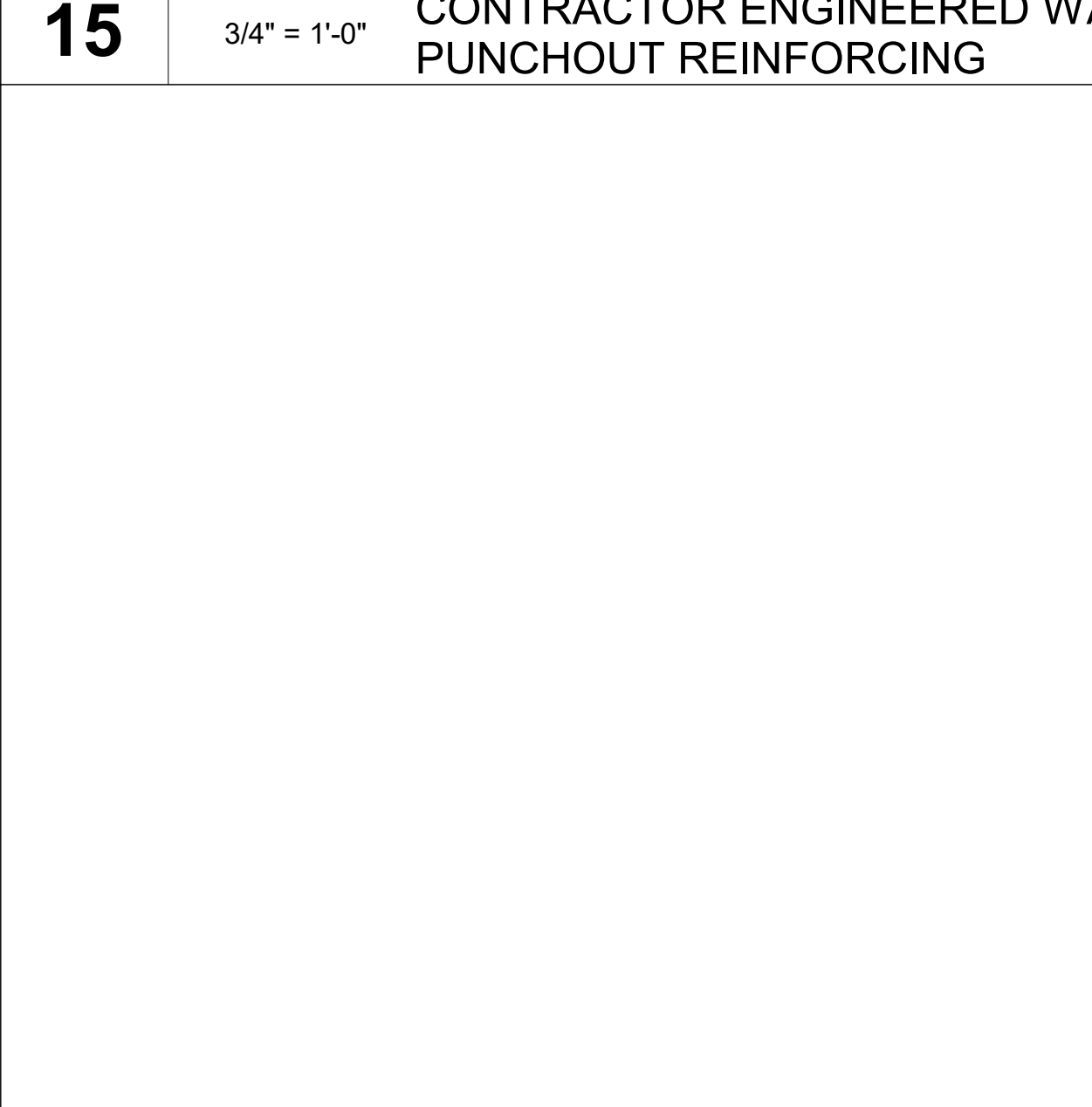
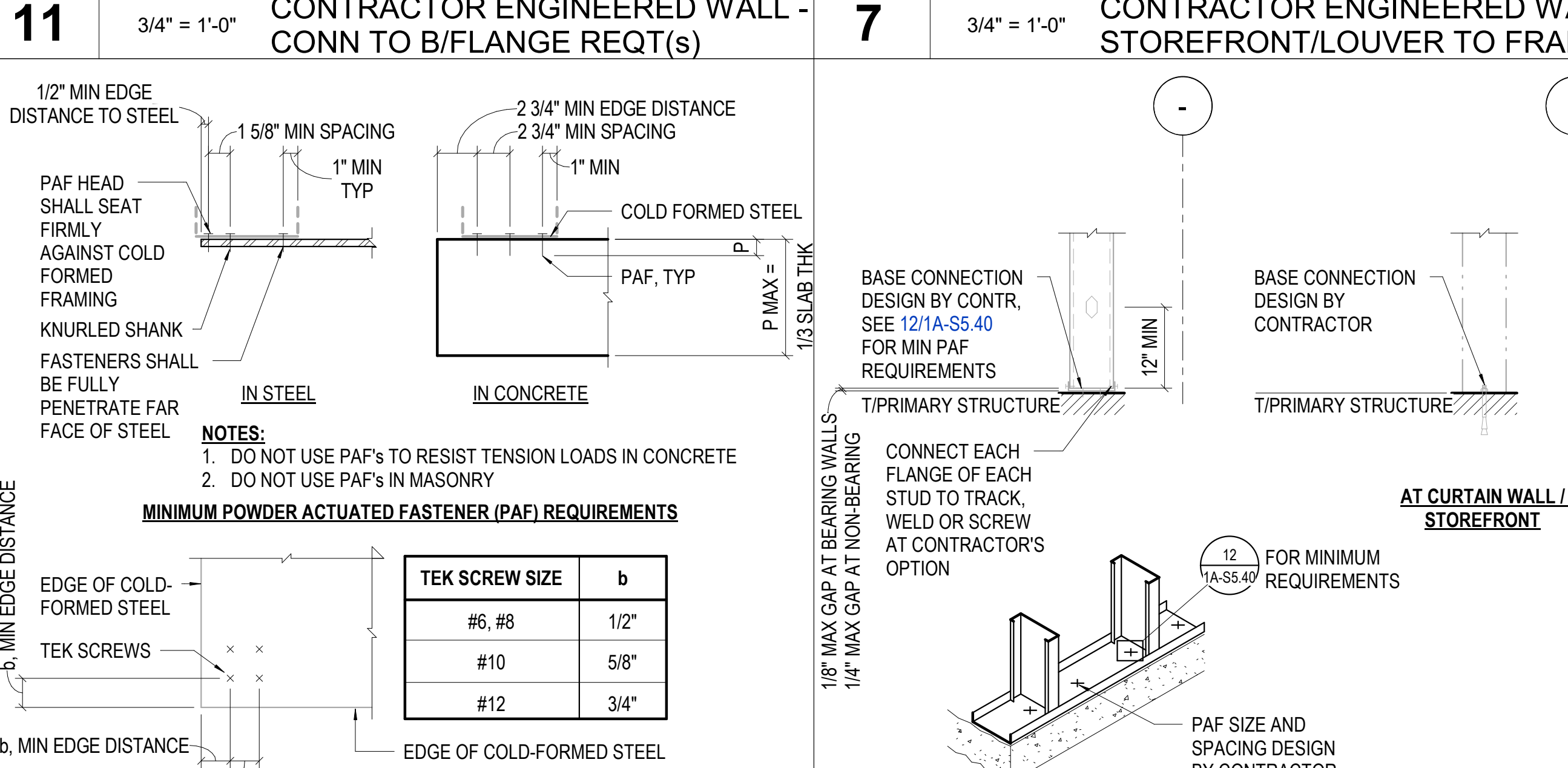
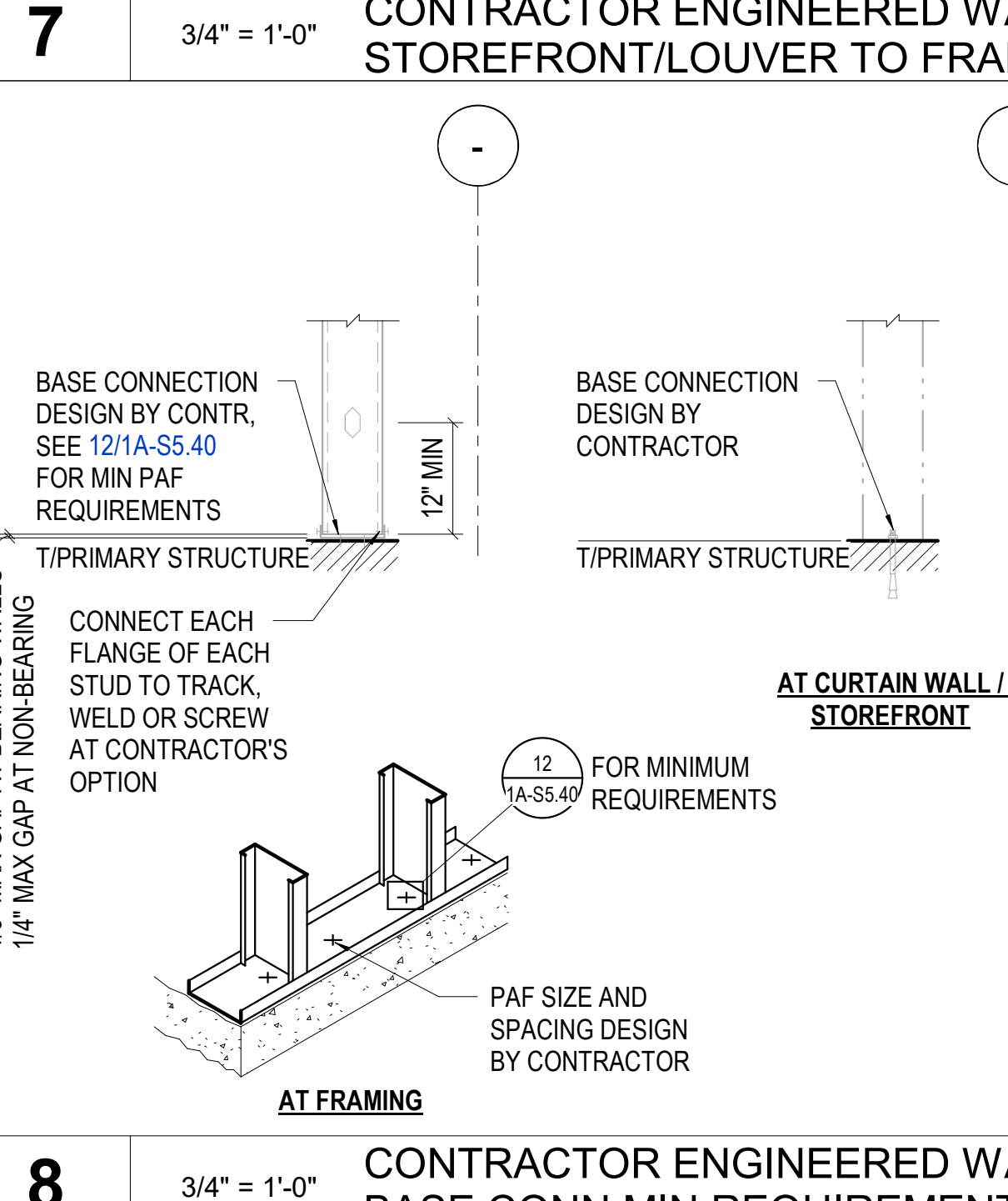

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Record Set
TC
07/10/2021


Project Name	SSRC BASE AREA IMPROVEMENTS
Project Number	20.1411.S.01
Description	TYPICAL SLAB ON METAL DECK DETAILS
Scale	As indicated

1A-S5.31

DESIGNER: NC MARTIN
LEAD REVIT: TEO COLIN KNOWLES
DATE PRINTED: 5/19/2021 12:07:05 PM
FILE PATH: E:\03\003\155\001 - Steamboat Redevel\03 TESS 000 - Structural_SSR\Promenade Building 2021 - 2021.rvt

MIL JOB # - 201411.S.01
PRINCIPAL: KELLY KNOWLES
FOR: KELLY KNOWLES
PROJECT MANAGER: C. A. CHEN

		 <p>WEB STIFFENER IS A STUD SEGMENT W/LENGTH = STUD DEPTH - 3/8", FASTEN W/4) #10 TEK SCREWS</p> <p>T/ANGLE, SEE ARCH, TYPICAL</p> <p>HOLD BACK WEB STIFFENER TO AVOID INTERFERENCE W/ANGLE WELD, TYP</p> <p>68 MIL STUD MINIMUM, TYPICAL</p> <p>L5x5x, HOT DIP GALVANIZED</p> <p>4" MAX</p> <p>1/4" MAX</p> <p>BRICK SUPPORT ANGLE</p> <p>1/8" 1/8" 1/2" MAX</p> <p>1" FULL AVAILABLE LENGTH</p> <p>NOTES:</p> <p>1. SPLICE SUPPORT ANGLE AT EACH BRICK CONTROL JOINT, 30'-0" OC MAXIMUM</p> <p>A AT SUPPORT ANGLE SPLICE</p>		 <p>FACE OF PRIMARY STRUCTURE</p> <p>HEEL, T&B, MINIMUM 1/8"</p> <p>WP, SEE NOTE 1</p> <p>3 SIDES, MINIMUM 1/8"</p> <p>RIGID CONNECTION, DESIGN BY CONTRACTOR</p> <p>68 MIL STUD MINIMUM, TYPICAL</p> <p>AT RELIEF ANGLE 13 1A-S5.40</p> <p>AT FRAMING SUPPORTING BRICK VENEER</p> <p>NOTE 2</p> <p>12" MIN</p> <p>FACE OF PRIMARY STRUCTURE</p> <p>WP, SEE NOTE 1</p> <p>RIGID CONNECTION, WELD, SCREW OR PAF TO PRIMARY STRUCTURE, DESIGN BY CONTRACTOR, SEE 12/1A-S5.40 FOR MINIMUM PAF REQUIREMENTS</p> <p>AT FRAMING NOT SUPPORTING BRICK</p> <p>NOTE 2</p> <p>12" MIN</p> <p>FACE OF PRIMARY STRUCTURE</p> <p>WP, SEE NOTE 1</p> <p>VERTICAL SUPPORT CONN DESIGN BY CONTRACTOR, WELD, SCREW OR PAF TO PRIMARY STRUCTURE, SEE 12/1A-S5.40 FOR MIN PAF REQUIREMENTS</p> <p>AT CURTAIN WALL / STOREFRONT</p> <p>NOTES:</p> <p>1. DESIGN CONNECTION TO DELIVER VERTICAL SHEAR AND HORIZONTAL AXIAL FORCE AT WORKPOINT, DO NOT IMPOSE MOMENT ON PRIMARY STRUCTURE</p> <p>2. SEE DETAIL 15/1A-S5.40 IF MINIMUM DIMENSION CAN NOT BE ACHIEVED</p>		<p>DESIGN CRITERIA FOR PERFORMANCE SPECIFIED COLD FORMED STEEL FRAMING (CFSF)</p> <p>1) GENERAL COLD FORMED STEEL FRAMING REQUIREMENTS</p> <p>1A) COLD FORMED STEEL FRAMING (CFSF) USED FOR EXTERIOR CLADDING SUPPORT IS A PERFORMANCE SPECIFIED SYSTEM DESIGNED (ENGINEERED) AND PROVIDED BY THE CONTRACTOR</p> <p>1B) THE CONTRACTOR SHALL DESIGN ALL MEMBERS AND CONNECTIONS FORMING A COMPLETE SYSTEM FOR THE CLADDING SELF WEIGHT, WIND AND SEISMIC FORCES INDICATED IN THE DESIGN CRITERIA SECTION AND AS INDICATED IN THE STRUCTURAL DOCUMENTS</p> <p>1C) INFORMATION PERTAINING TO THE FRAMING IS SHOWN THROUGHOUT THE ARCHITECTURAL AND STRUCTURAL DOCUMENTS AND IN THE SPECIFICATIONS. CONTRACTOR SHALL REFERENCE AND COORDINATE FRAMING WITH ALL TRADES AND DESIGN DOCUMENTS</p> <p>1D) REFER TO SPECIFICATIONS FOR ADDITIONAL REQUIREMENTS INCLUDING PROFESSIONAL ENGINEERING AND SUBMITTAL REQUIREMENTS</p> <p>1E) VARIATIONS PROPOSED BY THE CONTRACTOR TO ACCOMMODATE PREFABRICATION AND ALTERNATE SCHEMES SHALL BE SUBMITTED FOR APPROVAL PRIOR TO PREPARING DRAWINGS AND ENGINEERING OF THE COLD FORMED STEEL FRAMING.</p> <p>2) BIDDING REQUIREMENTS</p> <p>2A) THE CONTRACTOR IS RESPONSIBLE FOR PROVIDING A BID THAT INCLUDES ALL ITEMS ASSOCIATED WITH THE DESIGN AND CONSTRUCTION OF THE EXTERIOR WALL AND SOFFIT FRAMING, INCLUDING BUT NOT LIMITED TO:</p> <ul style="list-style-type: none">- DESIGN OF THE FRAMING MEMBERS (STUDS, SILLS, HEADERS, JAMBS, SOFFITS, HANGERS & KICKERS, ETC.)- CONNECTION DESIGN: BOTH FRAMING-TO-FRAMING CONNECTIONS AND CONNECTIONS BETWEEN FRAMING AND THE PRIMARY STRUCTURAL FRAME- COORDINATION AND INSTALLATION OF ALL FRAMING <p>2B) BIDS SHALL BE BASED ON CONTRACTOR ENGINEERED SIZES TO RESIST THE DESIGN FORCES AND MEET THE MINIMUM REQUIREMENTS INDICATED IN THE CONTRACT DOCUMENTS</p> <ul style="list-style-type: none">- DO NOT BASE BIDS SOLELY ON THE MINIMUM REQUIREMENTS <p>2C) FRAMING MEMBERS DEPTHS SHALL BE AS NOTED ON ARCHITECTURAL DOCUMENTS, UNLESS NOTED OTHERWISE</p> <p>2D) VARY MEMBER THICKNESS, FLANGE WIDTH, YIELD STRESS, AND SPACING AS REQUIRED TO SATISFY:</p> <ul style="list-style-type: none">- INDICATED PERFORMANCE CRITERIA- MINIMUM STRUCTURAL REQUIREMENTS INDICATED IN THE SPECIFICATIONS AND STRUCTURAL DETAILS <p>3) ENGINEERING REQUIREMENTS</p> <p>3A) GENERAL:</p> <ul style="list-style-type: none">- FRAMING MEMBERS SHALL BE AS NOTED ON THE ARCHITECTURAL DOCUMENTS, UNLESS NOTED OTHERWISE- FRAMING MEMBERS SHALL DELIVER MAXIMUM FORCES TO THE PRIMARY STRUCTURAL FRAME AT THE LOCATIONS, DIRECTIONS, AND MAGNITUDES NOTED IN STRUCTURAL DETAILS THUS: <div><p>WALL FRAMING, DESIGN BY CONTRACTOR</p><p>FACE OF PRIMARY STRUCTURE</p><p>POINT #</p><p>$V = x.kk @ xk'' OC$</p><p>$H = x.kk @ xk'' OC$</p><p>$M = x.x.in''k @ xk'' OC$</p></div> <ul style="list-style-type: none">- DO NOT CONNECT FRAMING TO THE PRIMARY STRUCTURAL FRAMING AT LOCATIONS OR IN WAYS NOT SPECIFICALLY INDICATED IN THE DETAILS- ALL CONNECTIONS TO PRIMARY STRUCTURE SHALL BE DESIGNED AS PINNED CONNECTIONS. DO NOT DELIVER MOMENT TO PRIMARY STRUCTURE UNLESS SPECIFICALLY INDICATED.- DO NOT CONNECT FRAMING TO THE BOTTOM FLANGE OF BEAMS UNLESS SPECIFICALLY INDICATED IN STRUCTURAL DETAILS <p>3B) GC / COLD FORMED STEEL FRAMING DESIGNER / CLADDING DESIGNER COORDINATION:</p> <ul style="list-style-type: none">- COLD FORMED STEEL FRAMING MEMBERS AND FRAMING ATTACHMENT SHALL BE DESIGNED FOR THE TRIBUTARY LOADING AT THE FRAMING SPACING INDICATED ON THE CONTRACT DOCUMENTS- CLADDING SUPPLIER SHALL DESIGN CLADDING TO DISTRIBUTE LOAD UNIFORMLY TO AND ATTACH TO EACH FRAMING MEMBER.- CLADDING ATTACHMENT SPACING WHICH DOES NOT EQUALLY DISTRIBUTE LOAD TO EACH STEEL FRAMING MEMBER IS NOT ACCEPTABLE WITHOUT APPROVAL FROM THE STEEL FRAMING SUPPLIER / DESIGNER AND THE PROJECT ENGINEER OF RECORD (EOR)- IF THE CLADDING SUPPLIER DOES NOT AND / OR CANNOT UNIFORMLY LOAD / ATTACH TO EACH STEEL FRAMING MEMBER, THE LOADS FROM THE CLADDING SUPPLIER MUST BE PROVIDED TO THE FRAMING SUPPLIER. THE STEEL FRAMING SUPPLIER WILL NEED TO INCORPORATE THESE INCREASED LOADS INTO THE FRAMING DESIGN.- GC SHALL COORDINATE BETWEEN COLD FORMED STEEL FRAMING SUPPLIER AND CLADDING SUPPLIER AS REQUIRED. <p>3C) LOADS:</p> <ul style="list-style-type: none">- WIND LOADS GIVEN IN THESE DOCUMENTS ARE BASED ON A COMPONENT AND CLADDING TRIBUTARY AREA OF 10 SQUARE FEET. REDUCTION IN LOADS BASED ON TRIBUTARY AREA ARE ALLOWED AS PERMITTED IN THE GOVERNING BUILDING CODE.- CALCULATE AND APPLY TO COLD FORMED STEEL FRAMING HEADERS, SILLS & JAMBS CUMULATIVE LINE AND CONCENTRATED TRIBUTARY LOADS FROM CLADDING DEAD LOAD AND WIND PRESSURES ON WINDOWS, LOUVERS, DOORS, CURTAIN WALL, AND OTHER OPENINGS- COORDINATE MULLION AND JAMB LOCATIONS WITH THE GENERAL CONTRACTOR- CONTRACTOR SHALL ACCOUNT FOR LOCALIZED LOADS AND MOMENTS DUE TO ECCENTRICALLY APPLIED LOADS SUCH AS SLIP CONNECTIONS AND WINDOW HEAD TRACKS <p>3D) PRIMARY FRAME DEFLECTIONS: PROVIDE VERTICAL SLIP CONNECTIONS AND DEFLECTION TRACKS AS NEEDED TO ACCOMMODATE VERTICAL DEFLECTIONS OF THE PRIMARY STRUCTURAL FRAMING. UNLESS NOTED OTHERWISE, PROVIDE THE FOLLOWING ALLOWANCES FOR VERTICAL DEFLECTION OF THE PRIMARY STRUCTURAL FRAMING:</p> <ul style="list-style-type: none">- AT EXTERIOR / SPANDREL INFILL FRAMING: 3/4"- AT EXTERIOR / SPANDREL BYPASS FRAMING: 3/4"- AT INTERIOR FRAMING, GREATER OF L/240 OR 3/4" <p>3E) VERTICAL DEFLECTION CRITERIA: DESIGN COLD FORMED METAL FRAMING HEADERS TO MEET THE FOLLOWING VERTICAL DEFLECTION CRITERIA:</p> <ul style="list-style-type: none">- FOR STUDS SUPPORTING MASONRY VENEER = SPAN / 600- FOR STUDS SUPPORTING STUCCO = SPAN / 240- FOR STUDS SUPPORTING THIN SET ADHERED VENEER = SPAN / 360- FOR STUDS SUPPORTING METAL PANELS = SPAN / 240- FOR STUDS SUPPORTING OTHER = SPAN / 240 <p>3F) HORIZONTAL DEFLECTION CRITERIA: DESIGN COLD FORMED METAL FRAMING MEMBERS TO MEET THE FOLLOWING HORIZONTAL DEFLECTION CRITERIA:</p> <ul style="list-style-type: none">- FOR STUDS BACKING-UP MASONRY VENEER = SPAN / 600- FOR STUDS BACKING-UP STUCCO OR THIN SET ADHERED VENEER = SPAN / 360- FOR STUDS BACKING-UP METAL PANELS = SPAN / 240- FOR STUDS BACKING-UP OTHER = SPAN / 240- PER IBC TABLE 1604.3 FOOTNOTE F, WIND LOAD IS PERMITTED TO BE TAKEN AS 0.42 TIMES THE COMPONENT AND CLADDING ULTIMATE LOADS FOR THE PURPOSE OF DETERMINING DEFLECTION LIMITS. <p>4) CONSTRUCTION REQUIREMENTS</p> <p>4A) CONSTRUCTION SHALL CONFORM TO THE MINIMUM REQUIREMENTS SHOWN ON THE CONTRACT DOCUMENTS, INCLUDING DETAILS THROUGHOUT THE STRUCTURAL DOCUMENTS AND MINIMUM REQUIREMENTS INDICATED IN DETAILS ON THIS SHEET</p> <ul style="list-style-type: none">- SEE DETAILS THIS SHEET INDICATING ADDITIONAL MINIMUM CFSF CRITERIA <p>4B) REQUIRED SITE VISITS</p> <ul style="list-style-type: none">- THE CONTRACTOR'S COLD FORMED STEEL FRAMING ENGINEER SHALL MAKE SITE VISITS AS APPROPRIATE (1 MINIMUM) TO OBSERVE THE INSTALLATION OF THE COLD FORMED METAL FRAMING. <p>4C) MINIMUM STUD GAGES: MINIMUM STUD THICKNESS BASED ON THE ATTACHMENT OF CLADDING MATERIAL IS GIVEN IN THE FOLLOWING TABLE:</p> <table><tr><th>MATERIAL ATTACHED TO STUDS</th><th>MIN. MIL THICKNESS</th><th>MAX. STUD SPACING</th></tr><tr><td>- WELDED MASONRY VENEER LEDGE</td><td>68</td><td>16" OC</td></tr><tr><td>- MASONRY VENEER BACKUP</td><td>43</td><td>16" OC</td></tr><tr><td>- ALL OTHERS</td><td>33</td><td>24" OC</td></tr></table> <p>4D) ADDITIONAL CRITERIA FOR CFSF:</p> <ul style="list-style-type: none">- PROVIDE HORIZONTAL STUD BRIDGING AS REQUIRED TO BRACE FRAMING, MINIMUM OF (1) ROW AT MID-HEIGHT- PROVIDE (1) STUD EACH SIDE OF MASONRY CONTROL JOINTS- COLD FORMED STEEL TRACK THICKNESS SHALL BE EQUAL TO OR GREATER THAN THE CONNECTED WALL STUD THICKNESS- ALL CONNECTIONS SHALL USE PREFABRICATED FRAMING CONNECTORS (CLIPS). DO NOT SITE / FIELD FABRICATE CONNECTORS FROM TRACKS OR STUDS UNLESS SPECIFICALLY SHOWN ON THE CONTRACT DOCUMENTS- DO NOT USE PAFs TO RESIST TENSION LOADS IN CONCRETE- DO NOT USE PAFs IN MASONRY- DO NOT NOTCH, DRILL OR OTHERWISE MODIFY FRAMING WITHOUT PRIOR WRITTEN APPROVAL OF THE DESIGN ENGINEER AND EOR		MATERIAL ATTACHED TO STUDS	MIN. MIL THICKNESS	MAX. STUD SPACING	- WELDED MASONRY VENEER LEDGE	68	16" OC	- MASONRY VENEER BACKUP	43	16" OC	- ALL OTHERS	33	24" OC
MATERIAL ATTACHED TO STUDS	MIN. MIL THICKNESS	MAX. STUD SPACING																	
- WELDED MASONRY VENEER LEDGE	68	16" OC																	
- MASONRY VENEER BACKUP	43	16" OC																	
- ALL OTHERS	33	24" OC																	
		<p>13 3/4" = 1'-0"</p> <p>CONTRACTOR ENGINEERED WALL - STONE SUPPORT TO MTL STUD</p>  <p>FACE OF PRIMARY STRUCTURE</p> <p>12" MIN</p> <p>NOTE 1</p> <p>BYPASS/SLIP CLIP, WELD OR PAF TO PRIMARY STRUCTURE, DESIGN BY CONTR, SEE 12/1A-S5.40 FOR MIN PAF REQUIREMENTS</p> <p>AT FRAMING</p> <p>FACE OF PRIMARY STRUCTURE</p> <p>BYPASS CONN DESIGN BY CONTR, WELD OR PAF TO PRIMARY STRUCTURE, SEE 12/1A-S5.40 FOR MIN PAF REQUIREMENTS</p> <p>AT CURTAIN WALL</p> <p>NOTES:</p> <p>1. SEE DETAIL 15/1A-S5.40 IF MINIMUM DIMENSION CANNOT BE ACHIEVED</p>		<p>9 3/4" = 1'-0"</p> <p>CONTRACTOR ENGINEERED WALL - FIXED CONNECTION MINIMUM REQUIREMENTS</p>  <p>4'-0" MAXIMUM</p> <p>FASCIA FRAMING</p> <p>9 1A-S5.40</p> <p>FACE OF PRIMARY STRUCTURE, TYPICAL</p> <p>SUPPORT SOFFIT FRAMING FROM EACH PRIMARY STRUCTURAL MEMBER AT 4'-0" OC MAXIMUM ALONG MEMBER LENGTH</p> <p>COORDINATE DESIGN OF SOFFIT FRAMING WITH CLADDING CONNECTION SPACING / FREQUENCY</p> <p>CONNECT FRAMING AT CORNER</p> <p>BRIDGE PL AND CONNECTION TO DECK DESIGN BY CONTRACTOR</p> <p>SLIP CONNECTION</p> <p>AT DECK</p> <p>NOTES:</p> <p>1. LOCATE BRIDGING 12" MAXIMUM ABOVE OR BELOW CONNECTION TO PRIMARY STRUCTURE</p> <p>3/4" SLIP</p> <p>12" MAX</p> <p>NOTE 1</p> <p>B/PRIMARY STRUCTURE</p> <p>SLIP CONNECTION</p> <p>TOP CONNECTION DESIGN BY CONTR, SEE 12/1A-S5.40 FOR MIN CONNECTOR SPACING REQUIREMENTS</p> <p>AT FRAMING</p> <p>B/PRIMARY STRUCTURE</p> <p>SLIP CONNECTION</p> <p>TOP CONNECTION DESIGN BY CONTR, SEE 12/1A-S5.40 FOR MIN CONNECTOR SPACING REQUIREMENTS</p> <p>AT CURTAIN WALL / STOREFRONT</p> <p>3/4" SLIP</p>															
		<p>14 3/4" = 1'-0"</p> <p>CONTRACTOR ENGINEERED WALL - SLIP CONN MIN REQUIREMENTS</p>  <p>TRACK SEGMENT x 1'-0", MATCH STUD SIZE AND GAGE, CENTER TRACK ON PUNCHOUT</p> <p>EQ</p> <p>EQ</p> <p>(4) #10 TEK SCREW TYP</p> <p>NOTES:</p> <p>1. REINFORCING REQUIRED WHEN PUNCHOUT LOCATION SPECIFIED IN OTHER DETAILS CANNOT BE ACHIEVED</p> <p>2. PUNCHOUT REINFORCING INDICATED IS A MINIMUM. FINAL REINFORCING SHALL BE DESIGNED BY CONTRACTOR</p>		<p>10 3/4" = 1'-0"</p> <p>CONTRACTOR ENGINEERED WALL - SOFFIT FRAMING MIN REQ(T)s)</p>  <p>SLIP CLIP, WELD OR PAF TO PRIMARY STRUCTURE, DESIGN BY CONTRACTOR, SEE 12/1A-S5.40 FOR MIN PAF REQUIREMENTS</p> <p>AT FRAMING</p> <p>BYPASS CONNECTION, WELD OR PAF CONNECTION TO PRIMARY STRUCTURE, DESIGN BY CONTRACTOR, SEE 12/1A-S5.40 FOR MIN PAF REQUIREMENTS</p> <p>VERTICAL SUPPORT CONNECTIONS, WELD OR PAF TO PRIMARY STRUCTURE, DESIGN BY CONTRACTOR, SEE 12/1A-S5.40 FOR MIN PAF REQUIREMENTS</p> <p>AT CURTAIN WALL / STOREFRONT</p> <p>NOTES:</p> <p>1. SEE DETAILS FOR ALLOWABLE CONNECTION FORCES TO PRIMARY STRUCTURAL FRAMING</p> <p>2. DO NOT CONNECT TO BOTTOM FLANGE OF BEAM UNLESS SPECIFICALLY INDICATED IN DETAILS</p>															
		<p>6 3/4" = 1'-0"</p> <p>CONTRACTOR ENGINEERED WALL - FRAM TO B/PRIMARY STRUCTURE</p>  <p>CONSIDER ANY ECCENTRICITY OF LOAD AT CONNECTIONS</p> <p>STOREFRONT</p> <p>WALL FRAMING DESIGN SHALL CONSIDER TRIBUTARY GRAVITY AND WIND LOAD FROM STOREFRONT</p> <p>AT STOREFRONT</p> <p>CONSIDER ANY ECCENTRICITY OF LOAD AT CONNECTIONS</p> <p>LOUVER</p> <p>WALL FRAMING DESIGN SHALL CONSIDER TRIBUTARY GRAVITY AND WIND LOAD FROM LOUVER</p> <p>AT LOUVER</p>																	
		<p>15 3/4" = 1'-0"</p> <p>CONTRACTOR ENGINEERED WALL - PUNCHOUT REINFORCING</p>  <p>TRACK SEGMENT x 1'-0", MATCH STUD SIZE AND GAGE, CENTER TRACK ON PUNCHOUT</p> <p>EQ</p> <p>EQ</p> <p>(4) #10 TEK SCREW TYP</p> <p>NOTES:</p> <p>1. REINFORCING REQUIRED WHEN PUNCHOUT LOCATION SPECIFIED IN OTHER DETAILS CANNOT BE ACHIEVED</p> <p>2. PUNCHOUT REINFORCING INDICATED IS A MINIMUM. FINAL REINFORCING SHALL BE DESIGNED BY CONTRACTOR</p>		<p>11 3/4" = 1'-0"</p> <p>CONTRACTOR ENGINEERED WALL - CONN TO B/FLANGE REQ(T)s)</p>  <p>1/2" MIN EDGE DISTANCE TO STEEL</p> <p>1 5/8" MIN SPACING</p> <p>1" MIN TYP</p> <p>PAF HEAD SHALL SEAT FIRMLY AGAINST COLD FORMED FRAMING</p> <p>KNURLED SHANK FASTENERS SHALL BE FULLY PENETRATE FAR FACE OF STEEL</p> <p>IN STEEL</p> <p>2 3/4" MIN EDGE DISTANCE</p> <p>2 3/4" MIN SPACING</p> <p>1" MIN</p> <p>COLD FORMED STEEL</p> <p>PAF, TYP</p> <p>P MAX = 1/3 SLAB THK</p> <p>IN CONCRETE</p> <p>NOTES:</p> <p>1. DO NOT USE PAF's TO RESIST TENSION LOADS IN CONCRETE</p> <p>2. DO NOT USE PAF's IN MASONRY</p> <p>MINIMUM POWDER ACTUATED FASTENER (PAF) REQUIREMENTS</p> <table><tr><th>TEK SCREW SIZE</th><th>b</th></tr><tr><td>#6, #8</td><td>1/2"</td></tr><tr><td>#10</td><td>5/8"</td></tr><tr><td>#12</td><td>3/4"</td></tr></table> <p>EDGE OF COLD-FORMED STEEL</p> <p>b, MIN EDGE DISTANCE</p> <p>TEK SCREWS</p> <p>b, MIN EDGE DISTANCE</p> <p>b, MIN SPACING</p> <p>MINIMUM TEK SCREW REQUIREMENTS</p>		TEK SCREW SIZE	b	#6, #8	1/2"	#10	5/8"	#12	3/4"						
TEK SCREW SIZE	b																		
#6, #8	1/2"																		
#10	5/8"																		
#12	3/4"																		
		<p>7 3/4" = 1'-0"</p> <p>CONTRACTOR ENGINEERED WALL - STOREFRONT/LOUVER TO FRAMING</p>  <p>BASE CONNECTION DESIGN BY CONTR, SEE 12/1A-S5.40 FOR MIN PAF REQUIREMENTS</p> <p>T/PRIMARY STRUCTURE</p> <p>12" MIN</p> <p>AT FRAMING</p> <p>CONNECT EACH FLANGE OF EACH STUD TO TRACK, WELD OR SCREW AT CONTRACTOR'S OPTION</p> <p>1/8" MAX GAP AT BEARING WALLS</p> <p>1/4" MAX GAP AT NON-BEARING</p> <p>12 1A-S5.40 FOR MINIMUM REQUIREMENTS</p> <p>AT CURTAIN WALL / STOREFRONT</p> <p>PAF SIZE AND SPACING DESIGN BY CONTRACTOR</p>																	
		<p>8 3/4" = 1'-0"</p> <p>CONTRACTOR ENGINEERED WALL - BASE CONN MIN REQUIREMENTS</p>  <p>BASE CONNECTION DESIGN BY CONTR, SEE 12/1A-S5.40 FOR MIN PAF REQUIREMENTS</p> <p>T/PRIMARY STRUCTURE</p> <p>12" MIN</p> <p>AT FRAMING</p> <p>CONNECT EACH FLANGE OF EACH STUD TO TRACK, WELD OR SCREW AT CONTRACTOR'S OPTION</p> <p>1/8" MAX GAP AT BEARING WALLS</p> <p>1/4" MAX GAP AT NON-BEARING</p> <p>12 1A-S5.40 FOR MINIMUM REQUIREMENTS</p> <p>AT CURTAIN WALL / STOREFRONT</p> <p>PAF SIZE AND SPACING DESIGN BY CONTRACTOR</p>		<p>4 3/4" = 1'-0"</p> <p>CONTR ENGINEERED WALL - NOTES /REQUIRED DESIGN CRITERIA</p>															




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May 19, 2021

Date	Description
2021.05.19	BP3: PROMENADE - ISSUE FOR PERMIT

Project Name

SSRC | BASE AREA IMPROVEMENTS

Project Number

20.1411.S.01

Description

PERFORMANCE SPECIFIED FRAMING

Scale

As indicated

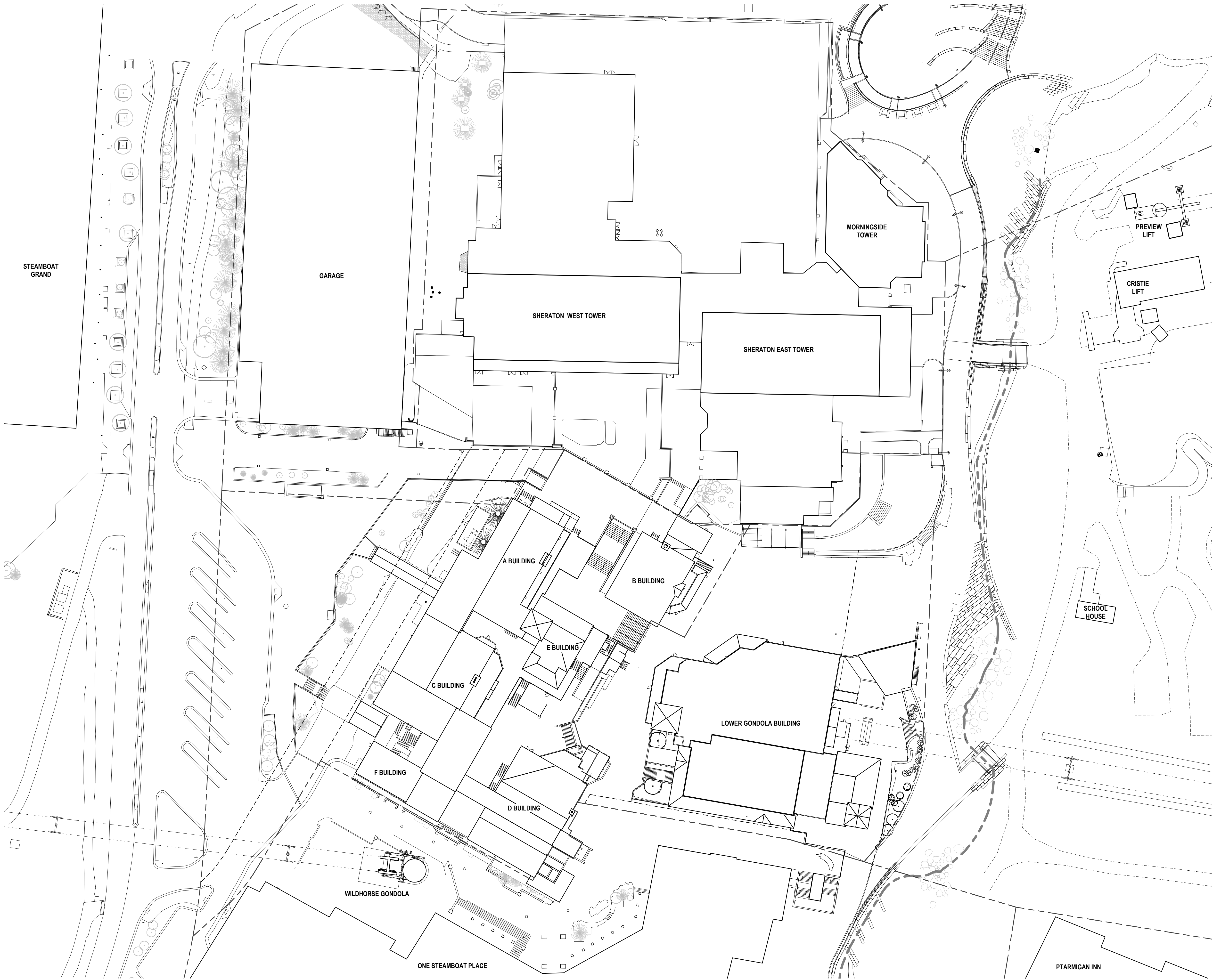
1A-S5.40

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ATMOS ENERGY CORPORATION
2# Systems will not be allowed unless proof of an appliance
requiring a MINIMUM of over 7" W.C. is provided to Atmos
Energy Corporation personnel for review.
Meter location must be approved by an Atmos Energy
Corporation employee during a mandatory site visit to be
scheduled after foundation is in place.
Meters will not be allowed under a shedding roofline or where
overhanging snow is a danger to the meter set.



GENERAL NOTES



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2021.05.19	BP3: PROMENADE - ISSUE FOR RECORD AND PERMIT

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Project Name

SSRC | BASE AREA
IMPROVEMENTS

Project Number

003.7835.000

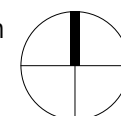
Description

ARCHITECTURAL SITE PLAN - EXISTING
CONDITIONS

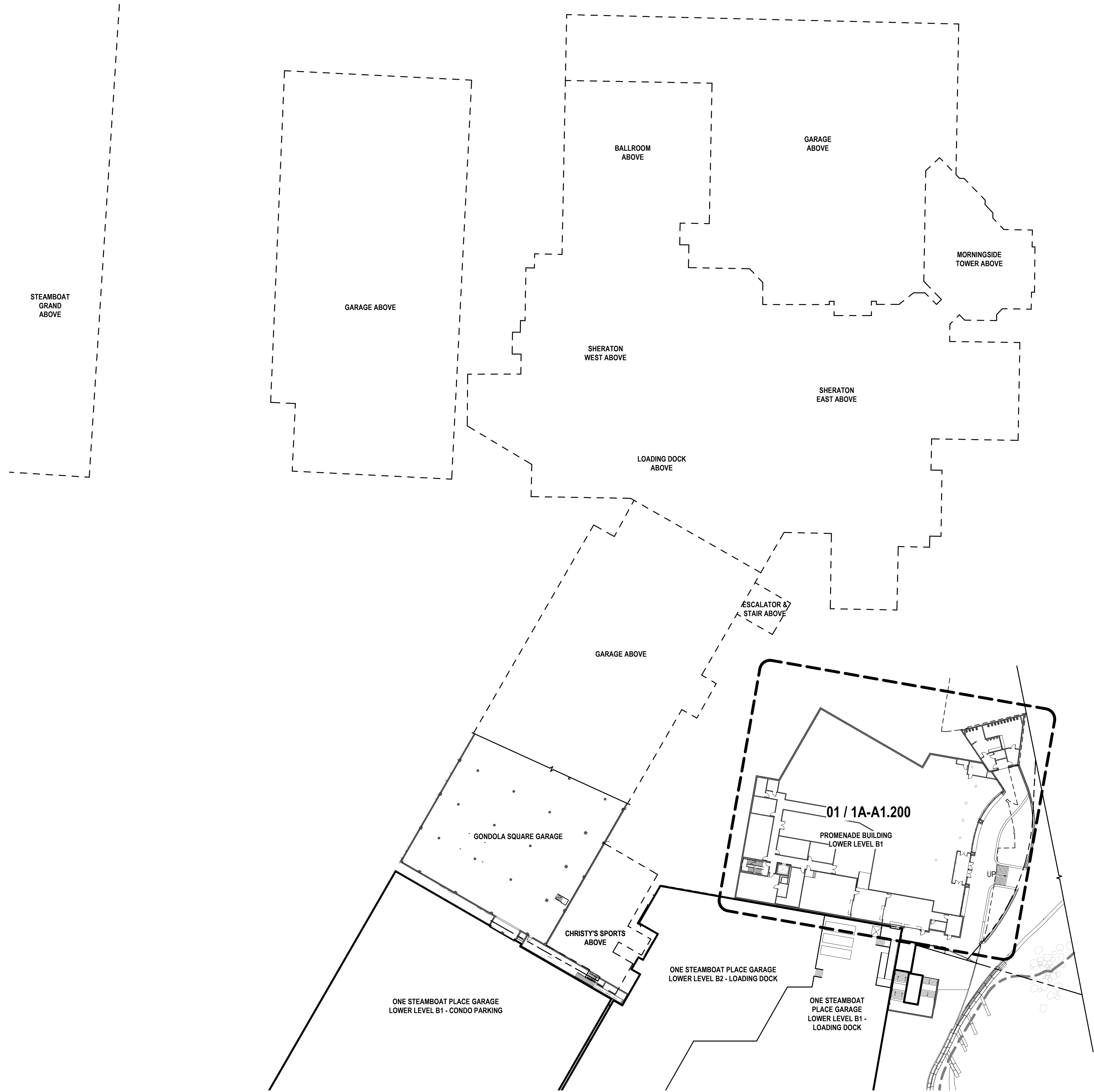
Scale

1" = 40'-0"

Ref North



AS1.000



01 COMPOSITE PLAN - LOWER LEVEL B1 (PHASE 1)
SCALE: 1" = 40'-0"

GENERAL NOTES



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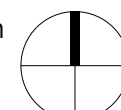
Description

COMPOSITE PLAN - LOWER LEVEL B1
(PHASE 1)

Scale

1" = 40'-0"

Ref North



1-A1.100



01 COMPOSITE PLAN - LEVEL 01 (PHASE 1)

SCALE: 1" = 40'-0"

GENERAL NOTES



ALTERRA east west partners
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Project Number

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Description

COMPOSITE PLAN - LEVEL 01 (PHASE 1)

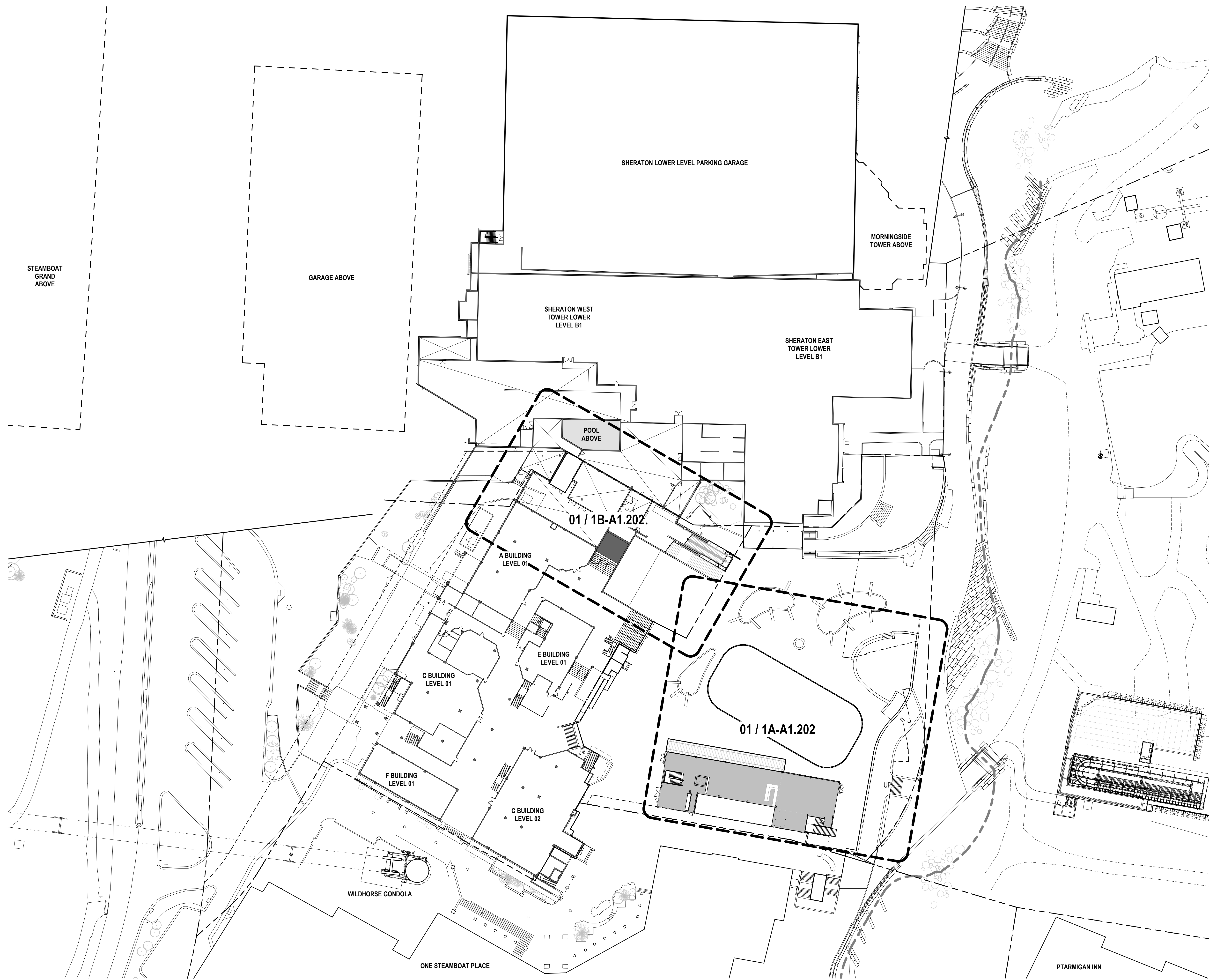
Scale

1" = 40'-0"

Ref North



1-A1.101



01 COMPOSITE PLAN - LEVEL 02 (PHASE 1)

SCALE: 1" = 40'-0"

GENERAL NOTES



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Project Name

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Project Number

003.7835.000

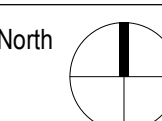
Description

COMPOSITE PLAN - LEVEL 02 (PHASE 1)

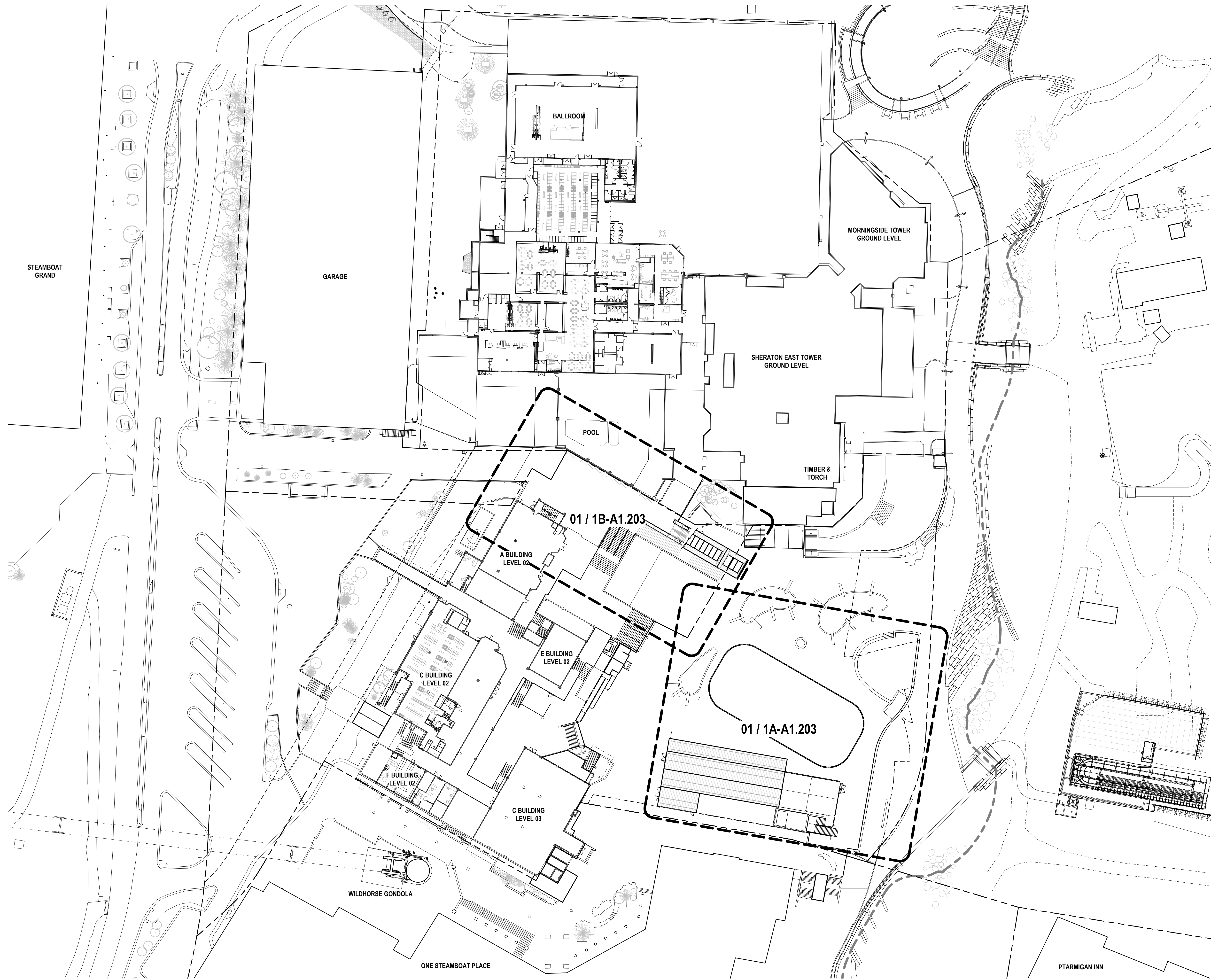
Scale

1" = 40'-0"

Ref North



1-A1.102



GENERAL NOTES

1. SEE 'SCHEMATIC DESIGN - KIDS VACATION CLUB' PACKAGE FOR REFERENCED INTERIOR WORK IN 1C SECTOR.
2. SEE 'SCHEMATIC DESIGN - GONDOLA SQUARE INTERIORS' PACKAGE FOR REFERENCED INTERIOR WORK IN 1B SECTOR



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Project Name

SSRC | BASE AREA
IMPROVEMENTS

Project Number

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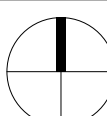
Description

COMPOSITE PLAN - LEVEL 03 (PHASE 1)

Scale

1" = 40'-0"

Ref North

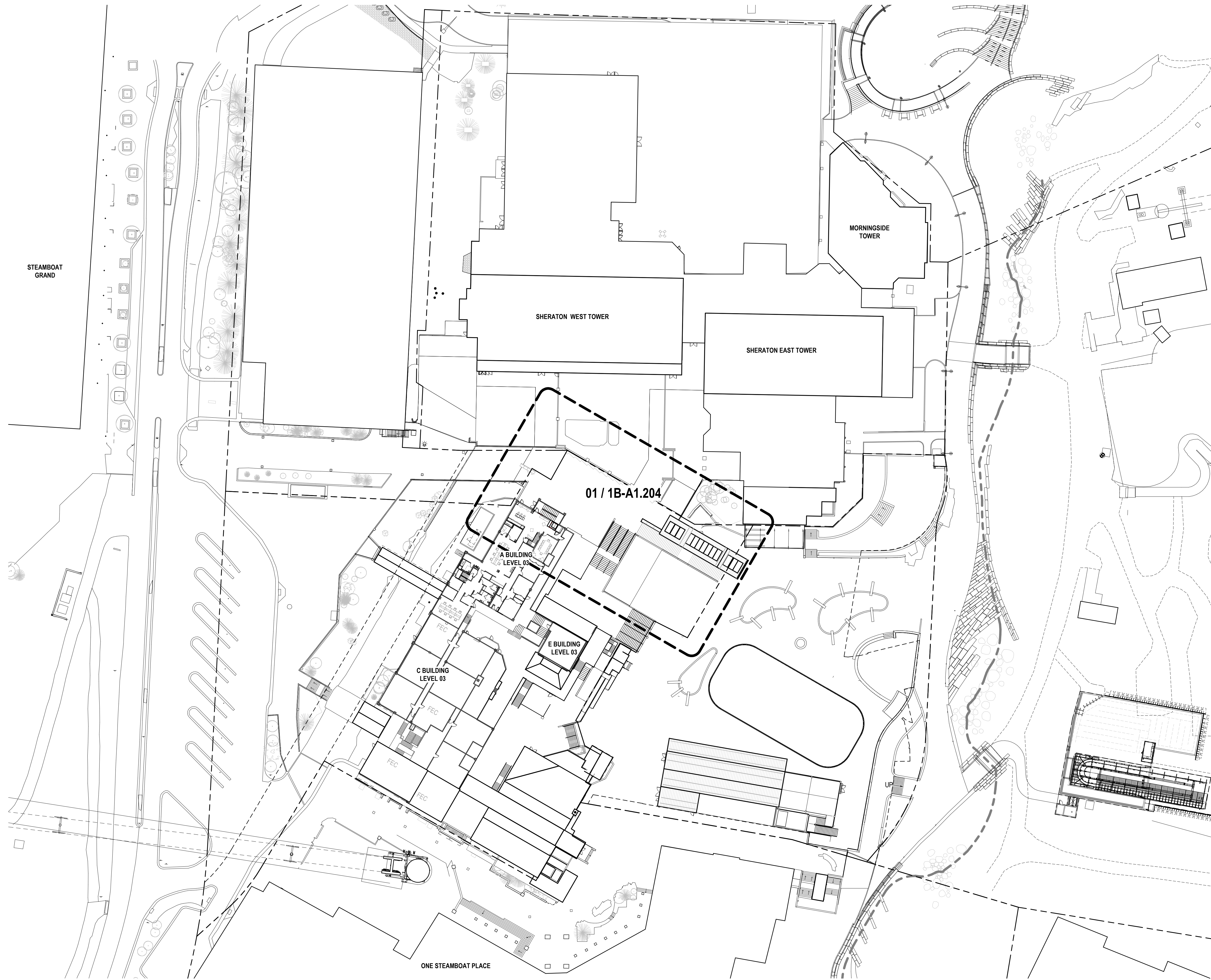


1-A1.103

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01 COMPOSITE PLAN - LEVEL 03 (PHASE 1)

SCALE: 1" = 40'-0"



GENERAL NOTES

1. SEE 'SCHEMATIC DESIGN - KIDS VACATION CLUB' PACKAGE FOR REFERENCED INTERIOR WORK IN 1C SECTOR
2. SEE 'SCHEMATIC DESIGN - GONDOLA SQUARE INTERIORS' PACKAGE FOR REFERENCED INTERIOR WORK IN 1B SECTOR



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07/10/2021

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Project Name

SSRC | BASE AREA
IMPROVEMENTS

Project Number

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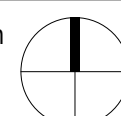
Description

COMPOSITE PLAN - LEVEL 04 (PHASE 1)

Scale

1" = 40'-0"

Ref North

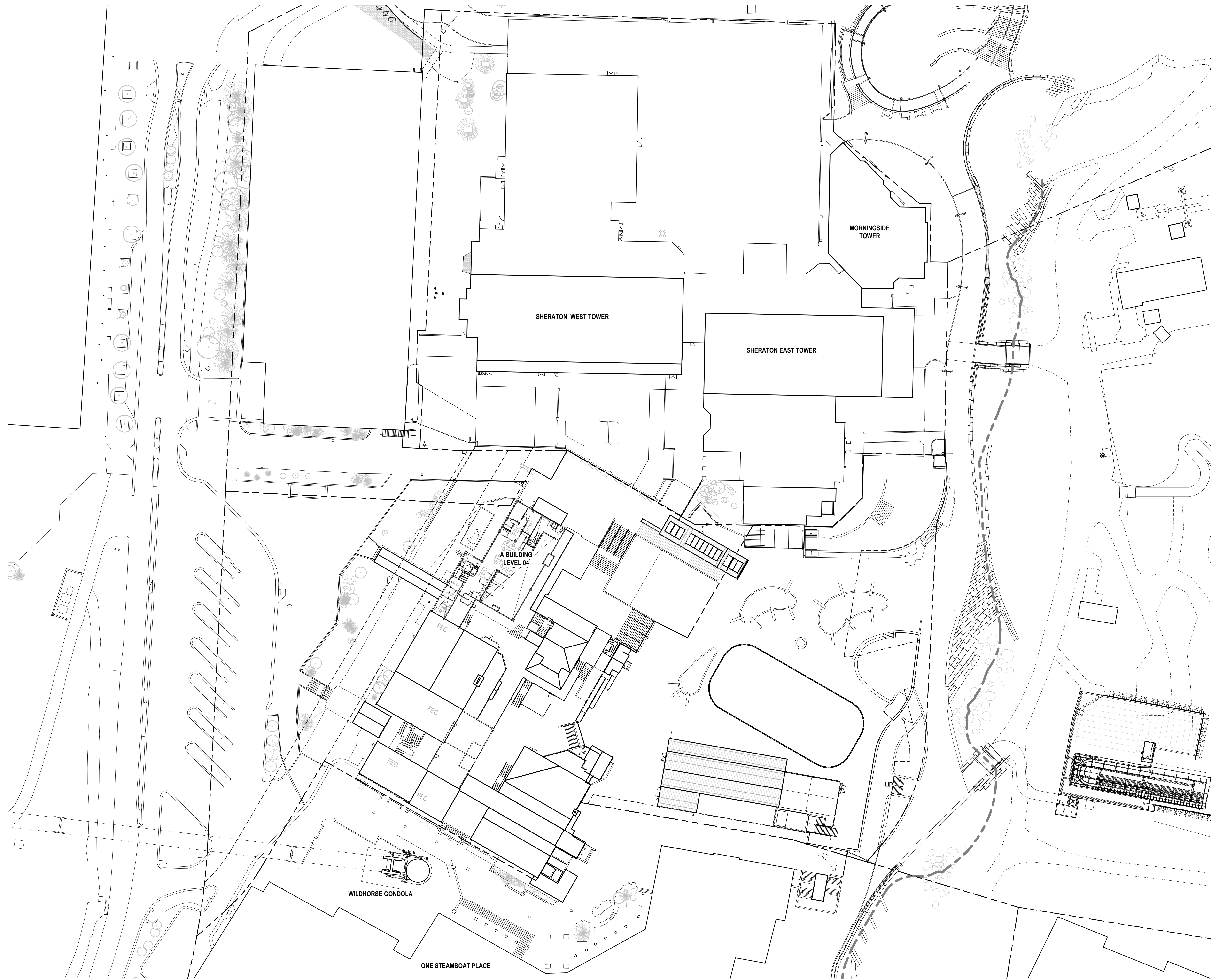


1-A1.104

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01 COMPOSITE PLAN - LEVEL 04 (PHASE 1)

SCALE: 1" = 40'-0"



GENERAL NOTES

1. SEE 'SCHEMATIC DESIGN - KIDS VACATION CLUB' PACKAGE FOR REFERENCED INTERIOR WORK IN 1C SECTOR.
2. SEE 'SCHEMATIC DESIGN - GONDOLA SQUARE INTERIORS' PACKAGE FOR REFERENCED INTERIOR WORK IN 1B SECTOR

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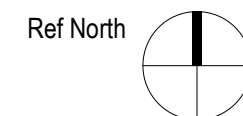


Project Name
SSRC | BASE AREA IMPROVEMENTS

Project Number
003.7835.000

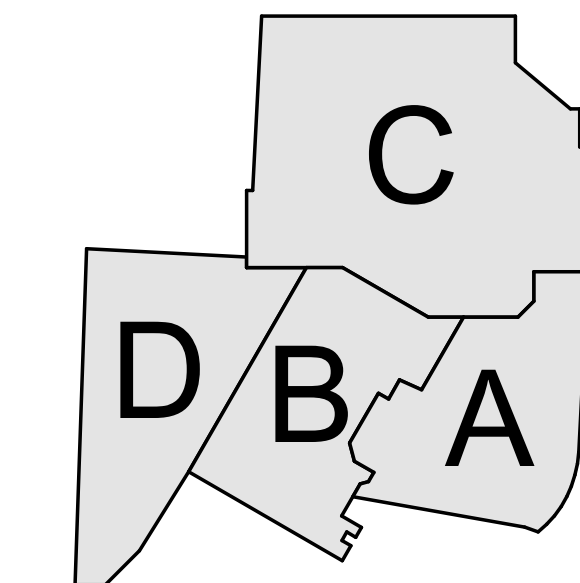
Description
COMPOSITE PLAN - LEVEL 05 (PHASE 1)

Scale
1" = 40'-0"



1-A1.105

KEY PLAN



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MISCELLANEOUS			PIPING TYPES			PIPING SYMBOLS			ABBREVIATIONS:									
SYMBOL	DESCRIPTION	SYMBOL	DESCRIPTION	DOUBLE LINE PIPING (2" AND ABOVE)	SINGLE LINE PIPING (UP TO 2")	PIPE TYPE	SYMBOL	ABBREVIATION	DESCRIPTION	ABBREVIATION	DESCRIPTION	ABBREVIATION	DESCRIPTION	ABBREVIATION	DESCRIPTION	ABBREVIATION	DESCRIPTION	
	SECTION NO.		SUPPLY DIFFUSER-4-WAY THROW		CHS	CHILLED WATER SUPPLY		P&T	PRESSURE/TEMPERATUR E PORT TAPS	A	AIR (COMPRESSED)	EDR	EFFECTIVE DIRECT RADIATION	M	MAKE-UP AIR	SFCS	SPRINKLER FLOOR CONTROL	
	DETAIL DESIGNATION		SUPPLY DIFFUSER-3-WAY THROW		CHR	CHILLED WATER RETURN		CR	CONCENTRIC REDUCER	ABV	ABOVE	EF	ENERGY EFFICIENCY RATIO	MA	MAKE-UP AIR	SH	SHOWER	
	POWERED EQUIPMENT DESIGNATION		SUPPLY DIFFUSER-2-WAY THROW		HWS	HEATING WATER SUPPLY		ER	ECCENTRIC REDUCER	AC	AIR CONDITIONING	EFF	EFFICIENCY	MAT	MIXED AIR TEMPERATURE	SHT	SHEET	
	NON POWERED EQUIPMENT DESIGNATION		SUPPLY DIFFUSER-1-WAY THROW		HWR	HEATING WATER RETURN		EJ	EXPANSION JOINT	ACC	AIR COMPRESSOR	EL	ELEVATION	MAX	MAXIMUM	SK	SINK	
	BASEBOARD EQUIPMENT DESIGNATION		RETURN DIFFUSER		CWS	CONDENSER WATER SUPPLY		AD	ACCESS DOOR	ENGR	ENGINEER	EMRG	EMERGENCY	MC	MECHANICAL CONTRACTOR	SKVA	STARTING KILOVOLT AMPS	
	SHEET KEY NOTES		EXHAUST DIFFUSER		CWR	CONDENSER WATER RETURN		ADJ	ADJUSTABLE	ENCL	ENCLOSURE	ENGR	ENGINEER	MCA	MINIMUM CIRCUIT AMPACITY	SKW	STARTING KILOWATTS	
	POINT OF DISCONNECTION		HUMIDIFIER		D	CONDENSATE DRAIN		AF	AIR FILTER	ES	EMERGENCY SHOWER	ENT	ENTERING	MCC	MOTOR CONTROL CENTER	SP	SUPPLY PRESSURE	
	ARROW INDICATES DIRECTION OF FLOW		FLEXIBLE DUCT CONNECTION		HPS	HIGH PRESSURE STEAM SUPPLY		AF	ABOVE FINISHED CEILING	ESD	EXTERNAL STATIC PRESSURE	ESD	EXTERNAL STATIC PRESSURE	MCH	MECHANICAL	SPEC	SPECIFICATION	
	EXTERIOR WALL LOUVER (UNDER ARCH. SECTION)		RETURN/EXHAUST AIR FLOW SYMBOL		MPS	MEDIUM PRESSURE STEAM SUPPLY		AF	ABOVE FINISHED FLOOR	ETR	EXTERNAL THERMIST	EVAP	EVAPORATOR	MI	MANHOLE	SPR	SPRINKLER	
	UNDERCUT DOOR (UNDER ARCH. SECTION)		HEAT TRACE		LPS	LOW PRESSURE STEAM SUPPLY		AF	ABOVE FINISHED GRADE	EWT	ENTERING WET BULB TEMPERATURE	EXP	EXPANSION TANK	MIN	MINIMUM	SS	STAINLESS STEEL	
	DOOR LOUVER (UNDER ARCH. SECTION)				HPR	HIGH PRESSURE CONDENSATE RETURN		AHU	AIR HANDLING UNIT	EX	EXTERNAL	EXT	EXTERNAL	MOCP	MAXIMUM OVER CURRENT PROTECTION	SSD	SUBSURFACE DRAIN	
	LOUVER DOOR FULL HEIGHT (UNDER ARCH. SECTION)				MPR	MEDIUM PRESSURE CONDENSATE RETURN		ALB	ALUMINUM	EXTG	EXISTING	MOP	MEDIUM PRESSURE	MS	MOP SINK	SSFU	SANITARY SEWER FIXTURE	
					LPR	LOW PRESSURE CONDENSATE RETURN		AP	ACCESS PANEL			MTD	MOUNTED	MTL	METAL	STD	STANDARD	
					RS	REFRIGERANT SUCTION		APD	AIR PRESSURE DROP			MUA	MAKE-UP AIR UNIT	STL	STEEL	STR	STRAINER	
					RL	REFRIGERANT LIQUID		ARI	AMERICAN REFRIGERANT INSTITUTE			MVD	MAKE-UP AIR VOLUME	SUSP	SUSPEND	SV	SANITARY VENT	
					RHG	REFRIGERANT HOT GAS		ARCH	ARCHITECT					ST	SOUND TRAP			
					A	CONTROL AIR (PNEUMATIC)		ASHRAE	AMERICAN SOCIETY OF HEATING AND REFRIGERATION ENGINEERS									
					BD	BOILER BLOW DOWN		ASME	AMERICAN SOCIETY OF MECHANICAL ENGINEERS									
					BF	BOILER FEED		ASTM	AMERICAN SOCIETY OF TESTING AND MATERIALS									
					BO	BLOW OFF		AV	AIR VENT									
					CF	CHEMICAL FEEDER		AVG	AVERAGE									
					PCS/R	PROCESS COOLING WATER SUPPLY/RETURN		AWS	AMERICAN WELDING SOCIETY									
					HTWS/R	HIGH TEMP. HOT WATER SUPPLY/RETURN		AUX	AUXILIARY									
					PHWS/R	PRIMARY OR DISTRICT HEATING WATER SUPPLY/RETURN		B	BOILER									
					PCHS/R	PRIMARY OR DISTRICT CHILLED WATER SUPPLY/RETURN		BC	BELOW COUNTER									
					PR	PUMPED CONDENSATE RETURN		BC	BACK OF CURBS									
					(E)	EXISTING PIPING		BH	BOX HYDRANT									
					(E)	EXISTING PIPING TO BE REMOVED		BHP	BRAKE HORSEPOWER									
								BM	BENCHMARK									
								BOD	BOTTOM OF DUCT (AFF)									
								BOF	BOTTOM OF FOOTING									
								BOS	BOTTOM OF STRUCTURE									
								BT	BREAK TANK									
								BTU	BRITISH THERMAL UNIT									
								BV	BALL VALVE									
								BWV	BACK WATER VALVE									
								C	CELSIUS									
								CAB	CABINET									
								CAV	CONSTANT AIR VOLUME									
								CB	CATCH BASIN									
								CC	COOLING COIL									
								CD	CONDENSATE DRAIN LINE									
								CFH	CUBIC FEET PER HOUR									
								CFM	CUBIC FEET PER MINUTE									
								CFS	CUBIC FEET PER SECOND									
								CI	CAST IRON									
								CL	CENTER LINE									
								CLG	CEILING									
								CLR	CLEAR									
								CMP	CORRUGATED METAL PIPE									
								CMU	CONCRETE MASONRY UNIT									
								CIP	CAST IRON PIPE INSTITUTE									
								CPVC	CHLORINATED POLYVINYL CHLORIDE									
								CW	COLD WATER									
								COMB	COMBINATION									
								COMP	COMPRESSOR									
								CONV	CONVERTER									
								CONC	CONCRETE									
								COND	CONDENSATE									
								CONN	CONNECTION									
								CONT	CONTINUOUS									
								CONTN	CONTINUATION									
								CONTR	CONTRACTOR									
								COP	COEFFICIENT OF PERFORMANCE									
								CRAC	COMPUTER ROOM A/C UNIT									
								CRT	CATHODE RAY TUBE									
								CRU	CONDENSATE RETURN UNIT									
								CT	COOLING TOWER									
								CTR	CENTER									
								CP	CORPOR									
								CW	COLD WATER									
								CWP	CONDENSER WATER PUMP									
								CWR	CONDENSER WATER RETURN									
								CWS	CONDENSER WATER SUPPLY									
								CV	CONSTANT VOLUME									
								dB	DECIBEL									
								DB	DRY-BULB									
								DDC	DOUBLE DUCT CONSTANT VOLUME									
								DC	DIRECT CURRENT									
								DDC	DIRECT DIGITAL CONTROL									
								DESIG	DESIGNATION									
								DEFL	DEFLECTION									
								DTL	DETAIL									
								DW	DRINKING WATER									
								DIFF	DIFFUSION									
								DIM	DIMENSION									
								DISC	DISCONNECT									
								DN	DOWN									
								DSP	DISCHARGE PLENUM									
								DPR	DAMP									
								DS	DOWNSPOUT									
								DS	DOUBLE SUCTION									
								DV	DOUBLE DUCT VAV									
								DW	DISHWASHER									
								DWG	DRAWING									
								DWH	DOMESTIC WATER HEATER									
								DWP	DOMESTIC WATER PUMP									
								DX	DIRECT EXPANSION									
								(E)	EXISTING									
								EA	EACH									
								EAT	ENTERING AIR TEMPERATURE									
								EC	ELECTRICAL CONTRACTOR									
								ECC	ECCENTRIC									
								EDB	ENTERING DRY BULB									
								EDF	ELECTRIC DRINKING FOUNTAIN									
								EDH	ELECTRIC DUCT HEATER									

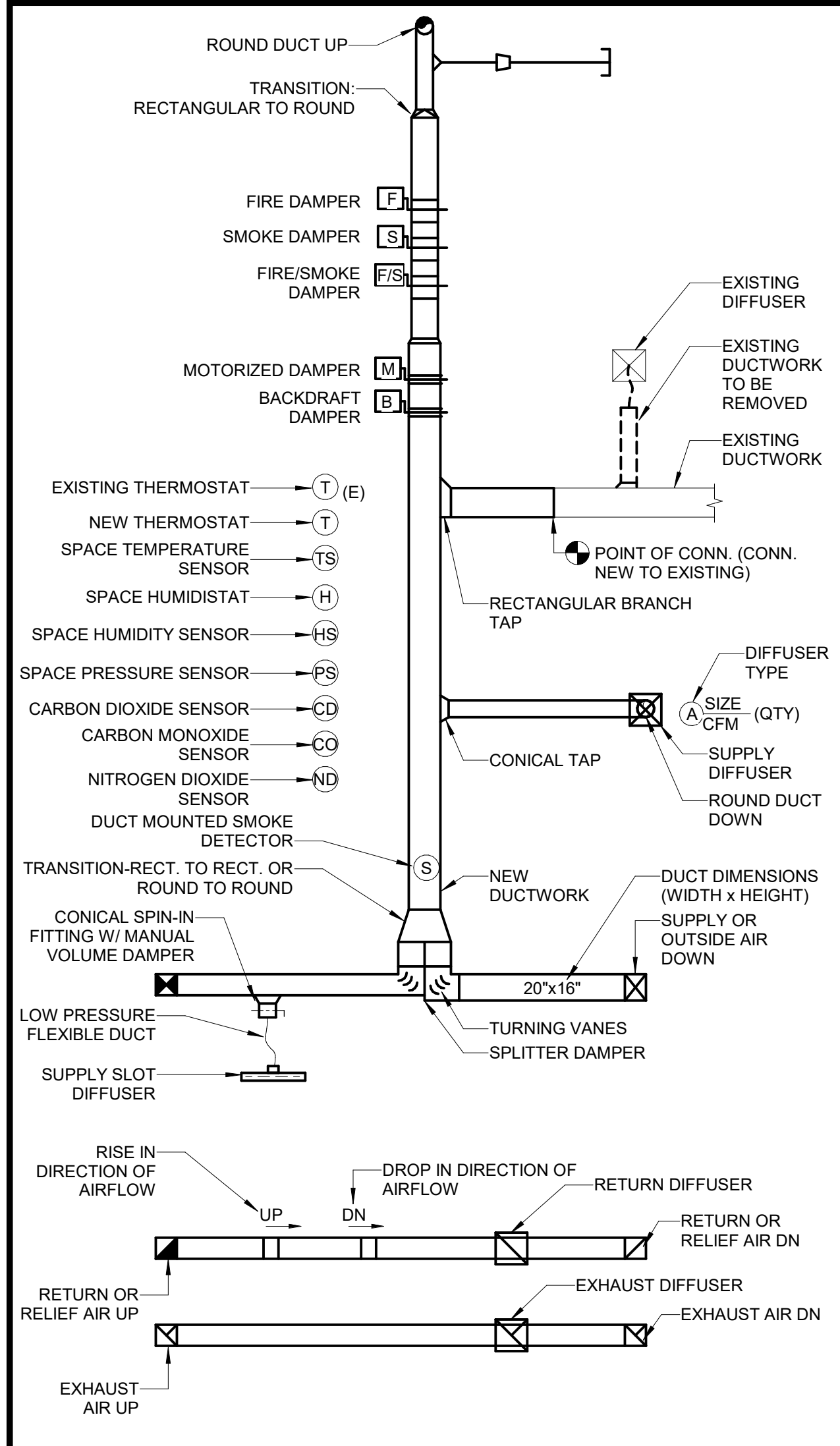
EQUIPMENT DESIGNATION	
01 - LEVEL 01	INDICATES TYPE OF EQUIPMENT
02 - LEVEL 02	
03 - LEVEL 03	
04 - LEVEL 04	INDICATES UNIT NUMBER WITHIN AREA
05 - LEVEL 05	
06 - LEVEL 06	INDICATES AREA (A,B,C,D,E,F,G) ETC.

DUCTWORK	
ROUND DUCT UP	
TRANSITION-RECTANGULAR TO ROUND	
FIRE DAMPER	
SMOKE DAMPER	
FIRE/SMOKE DAMPER	
MOTORIZED DAMPER	
BACKDRAFT DAMPER	
EXISTING THERMOSTAT	
NEW THERMOSTAT	
SPACE TEMPERATURE SENSOR	
SPACE HUMIDISTAT	
SPACE HUMIDITY SENSOR	
SPACE PRESSURE SENSOR	
CARBON DIOXIDE SENSOR	
CARBON MONOXIDE SENSOR	
NITROGEN DIOXIDE SENSOR	
DUCT MOUNTED SMOKE DETECTOR	
TRANSITION-RECT. TO RECT. OR ROUND TO ROUND	
CONICAL SPIN-IN FITTING W/ MANUAL VOLUME DAMPER	
LOW PRESSURE FLEXIBLE DUCT	
SUPPLY SLOT-DIFFUSER	
RISE IN DIRECTION OF AIRFLOW	
UP	
DOWN	
DROP IN DIRECTION OF AIRFLOW	
RETURN DIFFUSER	
RETURN OR RELIEF AIR DN	
EXHAUST DIFFUSER	
EXHAUST AIR DN	
RETURN OR RELIEF AIR UP	
EXHAUST AIR UP	

EQUIPMENT DESIGNATION

LEVEL	INDICATES TYPE OF EQUIPMENT
01 - LEVEL 01	
02 - LEVEL 02	
03 - LEVEL 03	
04 - LEVEL 04	
05 - LEVEL 05	
06 - LEVEL 06	

DUCTWORK



Date Description

2021.05.19 BP3: PROMENADE - ISSUE FOR PERMIT

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05/18/2021

Project Name

SSRC | BASE AREA IMPROVEMENTS

Project Number

003.7835.000

Description

MECHANICAL LEGEND

Scale

1/8" = 1'-0"

1A-M0.000

GENERAL MECHANICAL CONTRACT REQUIREMENTS:

GENERAL:

1. UNLESS OTHERWISE NOTED, THE WORK DESCRIBED ON THE PLANS AND SPECIFICATIONS SHALL INCLUDE THE FURNISHING AND INSTALLATION OF ALL LABOR AND MATERIALS NECESSARY FOR COMPLETE AND OPERATIONAL HVAC, FIRE PROTECTION AND PLUMBING SYSTEMS. CONTRACTOR SHALL FURNISH THESE EVEN IF ITEMS REQUIRED TO ACHIEVE THIS (I.E. OFFSETS, ISOLATION AND BALANCING DEVICES, MAINTENANCE CLEARANCES, ETC.) ARE NOT SPECIFICALLY SHOWN.

2. DATA GIVEN ON THE DRAWINGS IS AS EXACT AS COULD BE SECURED. ABSOLUTE ACCURACY IS NOT GUARANTEED AND THE CONTRACTOR SHALL OBTAIN AND VERIFY EXACT LOCATIONS, MEASUREMENTS, LEVELS, SPACE REQUIREMENTS, POTENTIAL CONFLICTS WITH OTHER TRADES, ETC. AT THE SITE AND SHALL SATISFACTORILY ADAPT HIS WORK TO THE ACTUAL CONDITIONS OF THE JOB.

3. THE DRAWINGS ARE DIAGRAMMATICAL IN NATURE AND SHALL NOT BE SCALED. THEY SHOW CERTAIN PHYSICAL RELATIONSHIPS WHICH MUST BE ESTABLISHED WITHIN THE DIVISION 21.22 AND 23 WORK AND ITS INTERFACE WITH OTHER WORK. ESTABLISHING THIS RELATIONSHIP IN THE FIELD IS THE EXCLUSIVE RESPONSIBILITY OF THE CONTRACTOR. THIS DIVISION SHALL COORDINATE ITS WORK WITH ALL DIVISIONS OF THE WORK AND ADJUST ITS WORK AS REQUIRED BY THE ACTUAL CONDITIONS OF THE PROJECT.

- A. THE CONTRACTOR SHALL VISIT THE SITE BEFORE SUBMITTING A BID TO BECOME THOROUGHLY FAMILIAR WITH THE ACTUAL CONDITIONS OF THE PROJECT. NO EXTRAS WILL BE ALLOWED DUE TO LACK OF KNOWLEDGE OF EXISTING CONDITIONS.

- B. CERTAIN SYSTEMS REQUIRE ENGINEERING OF INSTALLATION DETAILS BY CONTRACTOR. UNLESS FULLY DETAILED IN THE CONTRACT DOCUMENTS, SUCH ENGINEERING IS THE EXCLUSIVE RESPONSIBILITY OF THE CONTRACTOR.

- C. IT IS THE CONTRACTOR'S RESPONSIBILITY TO DETERMINE WHERE CLEARANCES ARE LIMITED, AND WHERE INSTALLATION DRAWINGS OR SCHEMATICS, "CONSTRUCTION DRAWINGS", OR COORDINATION DRAWINGS MAY BE REQUIRED IN ACCORDANCE WITH, OR IN EXCESS OF, THOSE REQUIRED BY THE SPECIFICATIONS. THE CONTRACTOR SHALL PREPARE ALL SUCH COORDINATION DRAWINGS AS PART OF THE BASE CONTRACT. SUCH DRAWINGS MAY BE SUBMITTED TO THE ARCHITECT/ENGINEER FOR RECORD AND COMMENT. ANY WORK INSTALLED WITHOUT APPROVED COORDINATION DRAWINGS IS DONE AT THE CONTRACTOR'S RISK.

4. THESE NOTES ONLY SUPPLEMENT, AND DO NOT REPLACE, THE SPECIFICATIONS.

5. DEFINITIONS AND TERMINOLOGY

- A. THE DEFINITIONS OF DIVISION 1 AND THE GENERAL CONDITIONS OF THIS SPECIFICATION ALSO APPLY TO THE DIVISION 21.22 AND 23 CONTRACT DOCUMENTS.

- B. "CONTRACT DOCUMENTS" CONSTITUTE THE DRAWINGS, SPECIFICATIONS, GENERAL CONDITIONS, PROJECT MANUALS, ETC., PREPARED BY ENGINEER (OR OTHER DESIGN PROFESSIONAL IN ASSOCIATION WITH ENGINEER) FOR CONTRACTOR'S BID OR CONTRACTOR'S NEGOTIATIONS WITH THE OWNER. THE DIVISION 21.22 AND 23 DRAWINGS AND SPECIFICATIONS PREPARED BY THE ENGINEER ARE NOT CONSTRUCTION DOCUMENTS.

- C. "CONSTRUCTION DOCUMENTS", "CONSTRUCTION DRAWINGS", AND SIMILAR TERMS FOR DIVISION 21.22 AND 23 WORK REFER TO INSTALLATION DIAGRAMS, SHOP DRAWINGS AND COORDINATION DRAWINGS PREPARED BY THE CONTRACTOR USING THE DESIGN INTENT INDICATED ON THE ENGINEER'S CONTRACT DOCUMENTS. THESE SPECIFICATIONS DETAIL THE CONTRACTOR'S RESPONSIBILITY FOR ENGINEERING BY CONTRACTOR AND FOR PREPARATION OF CONSTRUCTION DOCUMENTS.

- D. "N" INDICATES "NEW" EQUIPMENT TO BE PROVIDED UNDER THIS CONTRACT.

- E. "E" INDICATES "EXISTING" EQUIPMENT ON SITE WHICH MAY OR MAY NOT NEED TO BE RELOCATED AS A PART OF THIS WORK.

- F. "R" INDICATES EXISTING EQUIPMENT TO BE RELOCATED AS PART OF THIS WORK.

- G. "FURNISH" MEANS TO "SUPPLY" AND USUALLY REFERS TO AN ITEM OF EQUIPMENT.

- H. "INSTALL" MEANS TO "SET IN PLACE, CONNECT AND PLACE IN FULL OPERATIONAL ORDER".

- I. "PROVIDE" MEANS TO "FURNISH AND INSTALL".

- J. "EQUIVALENT" MEANS "MEETS THE SPECIFICATIONS OF THE REFERENCE PRODUCT OR ITEM IN ALL SIGNIFICANT ASPECTS." SIGNIFICANT ASPECTS SHALL BE AS DETERMINED BY THE ARCHITECT/ENGINEER.

- K. "WORK BY OTHER'S DIVISIONS", "RE: XX DIVISION", AND SIMILAR EXPRESSIONS MEANS WORK TO BE PERFORMED UNDER THE CONTRACT DOCUMENTS, BUT NOT NECESSARILY UNDER THE DIVISION OR SECTION OF THE WORK ON WHICH THE NOTE APPEARS. IT IS THE CONTRACTOR'S SOLE RESPONSIBILITY TO COORDINATE THE WORK OF THE CONTRACT BETWEEN HISHER SUPPLIERS, SUBCONTRACTORS AND EMPLOYEES. IF CLARIFICATION IS REQUIRED, CONSULT ARCHITECT/ENGINEER BEFORE SUBMITTING BID.

- L. BY INFERENCE, ANY REFERENCE TO A "CONTRACTOR" OR "SUB-CONTRACTOR" MEANS THE ENTITY WHICH HAS CONTRACTED WITH THE OWNER FOR THE WORK OF THE CONTRACT DOCUMENTS.

- M. "ENGINEER" MEANS THE DESIGN PROFESSIONAL FIRM WHICH HAS PREPARED THESE CONTRACT DOCUMENTS. ALL QUESTIONS, SUBMITTALS, ETC. OF THIS DIVISION SHALL BE ROUTED THROUGH THE ARCHITECT TO THE ENGINEER (THROUGH PROPER CONTRACTUAL CHANNELS).

ELECTRICAL COORDINATION:

1. VERIFY THE ELECTRICAL SERVICE PROVIDED BY THE ELECTRICAL CONTRACTOR BEFORE ORDERING ANY MECHANICAL EQUIPMENT REQUIRING ELECTRICAL CONNECTIONS.

2. PROVIDE PREMIUM EFFICIENCY MOTORS WITH 1.15 SERVICE FACTOR ON ALL EQUIPMENT. MOTORS SHALL BE CAPABLE OF OPERATING CONTINUOUSLY AT 100% UNDER JOBSITE CONDITIONS AND ALTITUDE.

3. UNLESS NOTED OTHERWISE, ALL MECHANICAL EQUIPMENT SHALL BE PROVIDED WITH HOA SWITCH AND STARTER COMPATIBLE WITH EQUIPMENT AND BMS SYSTEM. STARTERS SHALL BE PROVIDED BY DIVISION 21.22 AND 23 UNLESS IN A MOTOR CONTROL CENTER. ALL DISCONNECTS SHALL BE FURNISHED BY DIVISION 26.

4. THE ELECTRICAL POWER FOR CERTAIN EQUIPMENT PROVIDED UNDER DIVISION 21.22 AND 23 HAS NOT BEEN SPECIFICALLY INDICATED ON THE ELECTRICAL DRAWINGS AND MUST BE PROVIDED BY AND FIELD COORDINATED BY THE DIVISION 21.22 AND 23 TRADE REQUIRING SUCH POWER.

- SUFFICIENT POWER FOR THIS PURPOSE SHALL BE FURNISHED AS "SPARE", DEDICATED CIRCUIT CAPACITY IN DIVISION 26'S PANELBOARDS. ALL WIRING, CONDUIT AND ELECTRICAL DEVICES DOWNSTREAM OF THE PANELBOARDS IS THE RESPONSIBILITY OF THE DIVISION 21.22 AND 23 TRADE REQUIRING THE POWER UNLESS OTHERWISE SHOWN ON THE ELECTRICAL DRAWINGS.

- SUCH EQUIPMENT IS HEREBY DEFINED AS:

- A. ELECTRICAL HEAT TRACE, REQUIRED HEAT TRACE LOCATIONS, CAPACITIES AND SPECIFICATION ARE SHOWN OR INDICATED ON THE DRAWINGS. REFER TO SPECIFICATIONS FOR ADDITIONAL INFORMATION.

- B. FIRE PROTECTION AIR COMPRESSORS, DRY-PIPE CONTROL PANELS AND VALVES. REQUIRED CONNECTIONS ARE INCLUDED IN THE DIVISION 21 WORK, AND WILL BE SHOWN BY THAT CONTRACTOR'S ENGINEERED SYSTEM DESIGN DRAWINGS.

- (1) PRE-ACTION SYSTEM INITIATION SIGNALS (SUCH AS SMOKE DETECTORS, OR GENERAL ALARM CONDITIONS IN A PRE-ACTION ZONE) SHALL BE PROVIDED UNDER DIVISION 28 FIRE-ALARM WORK.

- (2) DIVISION 21 SHALL PROVIDE PRE-ACTION CONTROL PANEL AND INTERCONNECTION BETWEEN NEAREST SUITABLE FIRE ALARM PANEL AND LOCATION OF PRE-ACTION VALVE(S).

- (3) DIVISION 28 SHALL PROVIDE INTERCONNECTION BETWEEN FIRE COMMAND CENTER ALARM PANEL (PROVIDED UNDER DIVISION 28) AND REMOTE COMMUNICATION FIRE ALARM PANEL (PROVIDED UNDER DIVISION 28).

- C. TEMPERATURE CONTROL PANELS, CONTROL AIR COMPRESSORS AND LINE VOLTAGE POWER FOR 24V CONTROL TRANSFORMERS. REQUIRED CONNECTION ARE INCLUDED IN DIVISION 230900 AND WILL BE SHOWN BY THAT CONTRACTOR'S CONTROL SUBMITTAL DRAWINGS.

- D. IT IS NOT PERMISSIBLE TO UTILIZE "SPARE" POWER FROM ADJACENT POWER CIRCUITS TO SERVE ANY OF THE ABOVE LOADS. ALL POWER MUST COME FROM DEDICATED CIRCUITS.

5. SMOKE DETECTORS:

- FOR AIR HANDLING UNITS AND AIR SYSTEMS WITH A CAPACITY EXCEEDING 200 CFM, SMOKE DETECTORS SHALL BE PROVIDED UNDER DIVISION 28 FIRE-ALARM SYSTEMS IN ACCORDANCE WITH THE INTERNATIONAL MECHANICAL CODE AND ELSEWHERE AS SHOWN ON THE DRAWINGS.

- SMOKE DETECTORS WILL BE FURNISHED AND SET IN PLACE UNDER THIS DIVISION. DETECTORS WILL BE WIRED UNDER DIVISION 28. SMOKE DETECTORS MUST BE OF THE SAME MANUFACTURER, AND COMPATIBLE WITH THE FIRE ALARM SYSTEM PROVIDED UNDER DIVISION 28 (IF APPLICABLE).

- CONNECT RELAY(S) TO FAN CONTROL CIRCUIT TO STOP FAN WHEN SMOKE IS DETECTED.

INSTALLATION:

1. SUSPEND EACH TRADE'S WORK SEPARATELY FROM THE STRUCTURE. DUCTWORK SHALL BE HELD TIGHT TO STRUCTURE EXCEPT WHERE OTHERWISE SHOWN.

2. INSTALL ALL EQUIPMENT AND MATERIALS IN ACCORDANCE WITH MANUFACTURER'S RECOMMENDATIONS UNLESS SPECIFICALLY INDICATED OTHERWISE OR WHERE LOCAL CODES OR REGULATIONS TAKE PRECEDENCE.

3. PROVIDE MANUFACTURER'S RECOMMENDED SERVICE CLEARANCE AROUND ALL EQUIPMENT REQUIRING SAME.

4. PROVIDE FOR SAFE CONDUCT OF THE WORK, CAREFUL REMOVAL AND DISPOSITION OF MATERIALS AND PROTECTION OF PROPERTY WHICH IS TO REMAIN UNDISTURBED.

5. PROVIDE ACCESS DOORS FOR ALL EQUIPMENT. VALVES, CLEANOUTS, ACTUATORS AND CONTROLS WHICH REQUIRE ACCESS FOR ADJUSTMENT OR SERVICING AND WHICH ARE LOCATED IN OTHERWISE INACCESSIBLE LOCATIONS.

- A. FOR EQUIPMENT LOCATED IN "ACCESSIBLE LOCATIONS" SUCH AS LAY-IN CEILINGS, LOCATE EQUIPMENT TO PROVIDE ADEQUATE SERVICE CLEARANCE FOR NORMAL MAINTENANCE WITHOUT REMOVING ARCHITECTURAL, ELECTRICAL OR STRUCTURAL ELEMENTS SUCH AS THE CEILING SUPPORT SYSTEM, ELECTRICAL FIXTURES, ETC. "NORMAL MAINTENANCE" INCLUDES, BUT IS NOT LIMITED TO FILTER CHANGING; GREASING OF BEARINGS; USING PIT PORTS FOR PRESSURE OR TEMPERATURE MEASUREMENTS; SERVICING CONTROL VALVES AND SERVICING CONTROL PANELS.

6. ISOLATE ALL PRESSURIZED PIPE (WATER, ETC.) AT EACH RISER, BRANCH, PIECE OF EQUIPMENT, AND AREA SERVED.

7. PROVIDE PRIMERS FOR ALL FLOOR DRAINS AND FLOOR SINKS SHOWN ON DRAWINGS. PRIMERS MAY BE CONNECTED TO FLUSH FIXTURES OR BE STAND ALONE. SEE SPECIFICATIONS.

8. NO DOMESTIC WATER, CHILLED WATER, OR HEATING WATER LINES SHALL BE LOCATED EXPOSED IN FINISHED SPACES OR BELOW THE BUILDING SLAB UNLESS SHOWN OTHERWISE ON THE DRAWINGS.

9. NO GAS LINES SHALL BE LOCATED BELOW BUILDING SLAB.

10. ALL CURBS, ROOF JACKS, ROOF THIMBLES, SANITARY VENTS, ROOF DRAINS, ETC. SHALL BE COMPATIBLE WITH ROOFING SYSTEM TO BE PROVIDED. REFERENCE ARCHITECTURAL DIVISION FOR REQUIRED FLASHING DETAILS.

11. MECHANICAL CONTRACTOR IS RESPONSIBLE FOR PROVIDING ALL CONCRETE EQUIPMENT PAD DIMENSIONS, BASED ON THE FINAL EQUIPMENT SELECTION, TO THE STRUCTURAL AND GENERAL CONTRACTOR FOR INCLUSION IN THOSE CONTRACTOR'S WORK AS DESCRIBED BY THE GENERAL CONTRACTOR.

12. WARRANTY: AT A MINIMUM, THE ENTIRE MECHANICAL SYSTEM SHALL BE WARRANTED AGAINST DEFECTS IN MATERIALS AND WORKMANSHIP FOR A PERIOD OF ONE (1) YEAR AFTER ACCEPTANCE OF THE SYSTEM BY THE OWNER. REFER TO INDIVIDUAL SPECIFICATION SECTIONS FOR SPECIFIC WARRANTY REQUIREMENTS.

DUCTWORK INSTALLATION:

1. SEAL ALL SEAMS (LONGITUDINAL AND TRANSVERSE) AIR TIGHT WITH SEALANT PER SPECIFICATIONS.

2. DUCT DIMENSIONS ARE INSIDE CLEAR.

3. DIFFUSER NECK SIZE IS SAME AS FLEXIBLE DUCT SIZE.

4. UNLESS OTHERWISE NOTED, ALL CHANGES IN DIRECTION SHALL BE MADE WITH RADIUS ELBOWS WITH RADIUS TO CENTERLINE EQUAL TO 1.5 DUCT WIDTH.

5. WHERE REQUIRED FOR SPACE CONSTRAINTS, PROVIDE MITERED ELBOWS WITH TURNING VANES AS FOLLOWS:

- A. FOR DUCT WIDTHS OF 36" OR LESS, PROVIDE MANUFACTURED SINGLE WIDTH TURNING VANES, WITH NO TRAILING EDGES AND SPACING IN ACCORDANCE WITH SMACNA DUCT CONSTRUCTION STANDARDS FOR "STANDARD SPACING".

- B. USE DOUBLE THICKNESS (AIRFOIL) BLADES WITHOUT TRAILING EDGES FOR DUCT WIDTHS GREATER THAN 36".

6. ALL FLEXIBLE DUCTS SHALL NOT BE LESS THAN 4", OR MORE THAN 10" IN LENGTH. INSTALL FLEXIBLE DUCTWORK SUCH THAT:

- A. MINIMUM OVERALL LENGTH OF 3D, STRAIGHT INTO NECK OF DIFFUSER.

- B. MAXIMUM OF 135° OF TOTAL TURNING IN ENTIRE LENGTH OF FLEXIBLE DUCT.

- D. WHERE:

- * D = FLEXIBLE DUCT DIAMETER

- * R = RADIUS OF TURN AS MEASURED TO CENTERLINE OF DUCT.

7. RETURN AIR PLENUM, THE HVAC SYSTEM WILL USE THE SPACE ABOVE THE CEILING AS A RETURN AIR PLENUM. CONTRACTOR SHALL CONFORM TO THE REQUIREMENTS OF NFPA AND LOCAL CODE REQUIREMENTS FOR ALL MATERIAL INSTALLED IN THE RETURN AIR PLENUM.

- A. IN ADDITION, THE CONTRACTOR SHALL PROVIDE A COMPLETE RETURN AIR PATH BETWEEN ALL RETURN AIR DEVICES (GRILLES ETC.) AND THEIR RESPECTIVE HVAC UNIT. MAXIMUM VELOCITY OF RETURN AIR IN PLENUM SHALL GENERALLY NOT EXCEED 250 FEET PER MINUTE, NOR EXCEED 750 FEET PER MINUTE AT ANY CROSS-SECTION OF THE RETURN AIR PATH.

8. BRANCH LINES:

- A. MAKE ALL TAPS TO ROUND DUCTWORK WITH CONICAL TEES.

- B. MAKE ALL TAPS TO RECTANGLE DUCTWORK WITH 45° ENTRY OR CONICAL SPIN IN TO ROUND.

- C. INCLUDE DAMPERS AT ALL BRANCH LINES.

10. DUCT SIZES NOT CALLED OUT SHALL BE DETERMINED BASED ON 0.08" S.P. LOSS OR LESS PER 100 FT. OF LENGTH.

11. ASSUME ROUND OR OVAL DUCTS IN EXPOSED AREAS.

12. INCLUDE DAMPERS AT ALL BRANCH LINES, WHERE SHOWN ON THE DRAWINGS, AND WHERE OTHERWISE REQUIRED FOR BALANCING.

PIPE INSTALLATION:

1. ALL PIPING SHALL BE ADEQUATELY SUPPORTED FROM THE BUILDING STRUCTURE TO PREVENT SAGGING, POCKETING, SWAYING OR DISPLACEMENT BY MEANS OF HANGERS AND SUPPORTS. PIPING IS NOT TO BE SUPPORTED BY EQUIPMENT.

2. PROVIDE DIELECTRIC UNIONS BETWEEN DISSIMILAR MATERIALS.

3. PROVIDE MANUAL AIR VENTS AND CAPPED HOSE-END DRAINS WITH ISOLATION VALVES AT PIPING HIGH AND LOW POINTS.

4. WELD PIPE IN ACCORDANCE WITH APPLICABLE CODES AND STANDARDS. WELDERS SHALL BE CERTIFIED FOR TYPE OF WORK BEING PERFORMED.

5. FLUSH OUT PIPING AND REMOVE CONTROL DEVICES BEFORE PERFORMING PRESSURE TEST. DO NOT USE PIPING SYSTEM VALVES TO ISOLATE SECTIONS WHERE TEST PRESSURE EXCEEDS VALVE PRESSURE RATING. PRESSURIZE PIPING AT 100 PSIG. IF LEAKAGE IS OBSERVED OR IF TEMPERATURE COMPENSATED PRESSURE DROP EXCEEDS 1% OF TEST PRESSURE, REPAIR LEAKS AND RETEST. DO NOT USE AIR PRESSURE TO TEST PLASTIC PIPE.

6. PROVIDE SUPPORT UNDER ELBOWS ON PUMP SUCTION AND DISCHARGE LINES.

7. ALL STRAINERS SHALL BE FURNISHED WITH A "ROUGHING" SCREEN AND TWO (2) SCREENS FOR NORMAL OPERATION. INSTALL STRAINER WITH ROUGHING SCREEN AND OPERATE SYSTEM FOR 24 HOURS MINIMUM (RUN DOMESTIC WATER SYSTEMS AT MAX FLOW FOR A MINIMUM OF ONE HALF (1/2) HOUR. REMOVE ROUGHING SCREEN AND INSTALL NORMAL SCREEN, AFTER TWO WEEKS OF NORMAL OPERATION INSTALL NEW NORMAL SCREEN.

8. PIPING SIZES SHALL BE BASED ON 2' OR LESS HEAD LOSS PER 100 FEET OF LENGTH. VELOCITIES SHALL NOT EXCEED 10 FEET PER SECOND.

9. INSTALL ALL PIPING TO ALLOW FOR EXPANSION AND CONTRACTION WITHIN THE PIPING SYSTEM. ENSURE ALL REQUIRED PIPE EXPANSION WILL OCCUR IN THE PROPER DIRECTION AND SEGMENT OF PIPE. PROPERLY ANCHOR (RE: SPECIFICATIONS) ALL PIPING REQUIRING EXPANSION/CONTRACTION ISOLATION. COORDINATE PIPE EXPANSION/CONTRACTION TO PREVENT DAMAGE TO ANY AND ALL BUILDING COMPONENTS.

10. PROVIDE ISOLATION VALVES AT EVERY HYDRONIC BRANCH LINE.

CONDENSATE DRAINAGE:

1. PROVIDE CONDENSATE DRAINAGE FOR ALL COOLING COILS AND OVERFLOW PANS.

2. ROUTE CONDENSATE PIPING, FULL SIZE OF DRIP PAN CONNECTION, TO NEAREST CODE APPROVED RECEPTACLE. INSULATE WHERE LOCATED ABOVE FINISHED CEILINGS.

3. HEAT TRACE CONDENSATE LINES FROM FOOD SERVICE EQUIPMENT.

LOUVERS:

1. ALL LOUVERS LOCATED ON EXTERIOR WALLS SHALL BE PROVIDED BY DIVISION 23. REQUIRED LOUVER FREE AREAS ARE INDICATED ON DIVISION 23 DRAWINGS. IT IS THE RESPONSIBILITY OF THIS CONTRACTOR TO CONFIRM THAT THE REQUIRED FREE AREA HAS BEEN PROVIDED, PRIOR TO CONNECTION TO THAT LOUVER. DIVISION 23 SHALL PROVIDE ALL LOUVER PLENUMS.

CUTTING, PATCHING AND DEMOLITION:

1. KEEP DEMOLITION & CUTTING TO MINIMUM. REQUIRED FOR PROPER EXECUTION OF WORK.

2. BE RESPONSIBLE FOR ALL CUTTING AND PATCHING NECESSARY FOR THE COMPLETION OF THE WORK.

3. NO CUTTING (NOT SHOWN ON THE CONTRACT DOCUMENTS) SHALL BE DONE WITHOUT THE APPROVAL OF THE ARCHITECT AS TO LOCATIONS, METHOD AND EXTENT OF THE CUTTING.

4. REPAIR ALL ACCIDENTAL OR INTENTIONAL DAMAGE TO MATCH EXISTING CONSTRUCTION WITH NO NOTICEABLE DIFFERENCE IN CONTINUITY, APPEARANCE OR FUNCTION.

5. ALL "CAPPED" SANITARY AND VENT LINES SHALL BE RECONNECTED OR RE-ROUTED AS NECESSARY TO PREVENT "DEAD-ENDS" IN THE PIPING. ALL PIPING SHALL DRAIN TO ACTIVE SANITARY WASTE LINES AND ALL BRANCHES WITH TRAPS SHALL BE ADEQUATELY VENTED.

GENERAL PLUMBING CONTRACT REQUIREMENTS:

1. THE GENERAL MECHANICAL REQUIREMENTS PERTAIN TO THE WORK OF THIS DIVISION.

2. PREPARE SHOP DRAWINGS OF ALL NEW WORK (INCLUDING SLEEVE LOCATIONS) TO VERIFY LOCATIONS AND COORDINATION OF WORK BETWEEN TRADES PRIOR TO INSTALLATION.

3. ALL DRAIN GRATES, CLEANOUT COVERS, AND OTHER FINISHED, EXPOSED COMPONENTS SHALL BE PROTECTED FROM DAMAGE. DAMAGED COMPONENTS SHALL BE REPLACED BY CONTRACTOR AT NO ADDITIONAL COST TO THE CONTRACT.

4. COORDINATE ROUTING OF ALL PLUMBING PIPING BELOW SLAB WITH STRUCTURAL GRADE BEAMS, THE BEAMS, ETC. ALLOW FOR REROUTING OF PIPING AS REQUIRED.

5. ALL REQUIRED OPENINGS IN CONCRETE BEAMS AND STRUCTURAL WALLS ARE TO BE ACCOMPLISHED USING SLEEVES PROPERLY SIZED FOR THE PIPE THEY SERVE. CORE DRILLING IN BEAMS IS NOT ALLOWED. CORE DRILLING IN PANS IS ALLOWED UPON PRIOR APPROVAL OF ARCHITECT AND STRUCTURAL ENGINEER.

6. HORIZONTAL STORM AND SANITARY PIPING SHALL RUN AT A SLOPE OF 1/4" PER FOOT MINIMUM FOR 3" AND SMALLER PIPING. 4" AND LARGER PIPING SHALL RUN AT 1/8" PER FOOT MINIMUM.

7. NO DOMESTIC WATER LINES SHALL BE LOCATED EXPOSED IN FINISHED SPACES OR BELOW THE BUILDING SLAB UNLESS SHOWN OTHERWISE ON THE DRAWINGS.

8. WHERE SHOWN, MINIMIZE THE NUMBER OF JOINTS ON ANY PRESSURIZED PIPING BELOW CONCRETE SLABS. ALL BELOW GRADE PIPING TO BE PRESSURE TESTED AND WITNESSED BY ARCHITECT BEFORE BACKFILLING.

9. ALL CLEANOUTS FOR HORIZONTAL STORM DRAINAGE SYSTEM SHALL BE PIPE SIZE OR MAXIMUM 6" FOR LARGER PIPE.

10. IN ADDITION TO THE CLEANOUT LOCATIONS SHOWN ON DRAWINGS, PROVIDE ADDITIONAL CLEANOUTS AT:

- A. ALL UPPER TERMINALS.

- B. EACH RUN OF PIPING WHICH IS MORE THAN 100 FEET IN LENGTH OR FRACTION THEREOF.

- C. HORIZONTAL LINES 5 FEET OR MORE.

- D. HORIZONTAL LINES FOR EACH AGGREGATE CHANGE OF DIRECTION EXCEEDING 135 DEGREES.

- E. AT THE BASE OF ALL WASTE AND VENT RISERS. ALL VERTICAL CLEANOUTS SHALL BE SIZED TO ACCOMMODATE THE LARGEST PIPE ON THAT BRANCH LINE, BUT NEVER LARGER THAN 4".

11. NO GAS LINES SHALL BE LOCATED BELOW BUILDING SLAB. ALL GAS PIPING IN AIR PLENUMS IS TO BE WELDED.

12. PROVIDE ISOLATION VALVES ON ALL PIPING SERVING HOSE BIBBS.

13. ANY ELECTRICAL SPACE NOT CONSTRUCTED WITH A SUB-ROOF WHICH MAY HAVE PLUMBING PIPING AT THE CEILING OF THESE SPACES SHALL HAVE A DRIP PAN INSTALLED BELOW THE PIPING. DRIP PANS SHALL BE 1.5 TIMES THE WIDTH OF THE PIPING SERVED WITH A MINIMUM OF 2" HIGH SIDES. DRIP PANS SHALL BE SUSPENDED FROM THE PIPING SERVED AND SHALL SLOPE AT A MINIMUM 1/8"/FT. DRIP PANS SHALL DISCHARGE WITH MIN. 1-1/2" DR TO FLOOR DRAINS.

- A. DO NOT LOCATE PIPING DIRECTLY ABOVE ANY ELECTRICAL EQUIPMENT IN ELECTRICAL ROOMS.

14. MAINTAIN DESIGNATED PLUMBING FIXTURE HEADER SIZE FOR FULL BANK OF FIXTURES.

15. PROVIDE GAS VENTS EXTENDING CONTINUOUSLY FROM ALL INTERIOR GAS REGULATORS TO THE EXTERIOR OF THE BUILDING. TERMINATE AT AN APPROVED LOCATION. SIZE VENTS SUCH THAT MINIMUM VENT SIZE (FOR VENT WHICH IS 10 FEET OR LESS IN LENGTH) EQUALS RELIEF OUTLET PIPE SIZE. INCREASE VENT PIPE SIZE ONE PIPE SIZE FOR EVERY ADDITIONAL TEN FEET OF VENT PIPE LENGTH.

- A. PROVIDE AN ISOLATION VALVE DOWNSTREAM OF EVERY INTERIOR GAS REGULATOR.

STRUCTURE:

1. DO NOT PENETRATE STRUCTURAL MEMBERS. ALL EQUIPMENT SUPPORTS SHALL BE ATTACHED TO THE LOAD BEARING MEMBERS OF STRUCTURAL ELEMENTS. DO NOT OVER-STRESS ANY STRUCTURAL MEMBERS. CONTACT STRUCTURAL ENGINEER FOR ALLOWABLE LOADS FOR SPECIFIC MEMBERS.

2. DO NOT UTILIZE POWER DRIVEN ANCHORS FOR ANY LOCATIONS WHICH REQUIRE THE LOAD TO BE HELD IN TENSION. SEE STRUCTURAL DIVISION FOR ADDITIONAL RESTRICTIONS.

3. SEE ALSO STRUCTURAL DIVISION FOR ACCEPTABLE ANCHORING AND SUPPORT MEANS, METHODS, AND LOCATIONS.

4. PROVIDE FLEXIBLE CONNECTORS, EXPANSION LOOPS, EXPANSION JOINTS, ADDITIONAL FITTINGS OR EQUIVALENT TO ACCOMMODATE THE THERMAL EXPANSION OF THE BUILDING THROUGH STRUCTURAL EXPANSION JOINTS. PROVIDE SUCH FITTING AT EVERY PIPE, DUCT, CONDUIT, ETC. CROSSING OF A STRUCTURAL EXPANSION JOINT.

CONSTRUCTION VENTILATION:

1. WHERE EXISTING OR NEW MECHANICAL SYSTEMS ARE USED FOR TEMPORARY VENTILATION OR CLIMATE CONTROL, MECHANICAL EQUIPMENT INSTALLER SHALL PROVIDE CONSTRUCTION FILTERS, MAINTAIN EQUIPMENT, AND CLEAN, ADJUST AND PUT IN NEW CONDITION BEFORE BUILDING OCCUPANCY. PARTS AND LABOR WARRANTY SHALL NOT BE CONSIDERED TO START UNTIL ACCEPTANCE OF SYSTEM BY OWNER.

2. PROVIDE CONSTRUCTION FILTERS INSTALLED AT ALL AIR MOVING DEVICES THROUGHOUT THE CONSTRUCTION. REMOVE FILTERS ONLY FOR BALANCING AND FINAL TURNOVER. INSPECT ALL NON-CONSTRUCTION FILTERS AND REPLACE ALL THOSE DEEMED NECESSARY BY THE ENGINEER PRIOR TO ACCEPTANCE OF THE SYSTEM BY THE OWNER.

GAS FIRED VENTING REQUIREMENTS:

1. ALL FLUES SERVING GAS FIRED EQUIPMENT SHALL BE DOUBLE WALL TYPE "B" BY METALBESTOS CO. OR EQUAL. TERMINATE FLUES A MINIMUM HEIGHT ABOVE ROOF (AS DETERMINED BY CODE) WITH WEATHER CAP. SLOPE HORIZONTAL RUNS TOWARD POINT OF ORIGIN AT MINIMUM 1/4" PER 1".

ELECTRIC HEAT FREEZE PROTECTION:

1. PIPE HEAT TRACE CABLE:

- A. HEAT TRACE CABLE SHALL BE INSTALLED BY A LICENSED ELECTRICIAN.

- B. APPLY THE HEAT TRACE CABLE ON THE PIPE AFTER PRESSURE TESTING.

- (1) DO NOT SPIRAL WRAP ON PIPE.

- (2) MAKE ONE WRAP AT VALVES.

- (3) SECURE TO PIPE WITH METHODS APPROVED BY MANUFACTURER.

- C. APPLY "ELECTRICALLY TRACED" SIGNS ON OUTSIDE OF INSULATION.

- D. TEST PER MANUFACTURER'S RECOMMENDATIONS.

- E. APPLY HEAT TRACE TO THE FOLLOWING PIPING SYSTEMS.

- (1) DOMESTIC WATER (COLD, HOT, REIRC.) EXPOSED TO FREEZING CONDITIONS.

- (2) SANITARY TRAPS AND THE DOWNSTREAM HORIZONTAL PIPE WHERE EXPOSED TO FREEZING CONDITIONS.

- (3) STORM PIPING SUBJECT TO FREEZING CONDITIONS.

- F. ALL HEAT TRACE PIPE SHALL BE INSULATED PER SPECIFICATIONS.

- G. COORDINATE ALL HEAT TRACING AND REQUIRED CIRCUITS WITH ELECTRICAL CONTRACTOR.

FIRE PROTECTION NOTES:

1. FIRE PROTECTION NOTES

- A. SUBMIT SHOP DRAWINGS SHOWING PROPOSED LAYOUT OF FIRE PROTECTION SYSTEM. DRAWINGS SHALL SHOW ACTUAL EQUIPMENT TO BE USED. DIMENSIONS AND HYDRAULIC CALCULATIONS. SHOP DRAWINGS SHALL BE APPROVED BY THE LOCAL AUTHORITY HAVING JURISDICTION PRIOR TO SUBMITTAL TO ENGINEER OR ARCHITECT.

- B. SHOW THE CONNECTING MAIN AND BRANCH PIPE SIZES FOR ALL RELOCATED EXISTING SPRINKLER HEADS.

- C. CONFORM TO HAZARD OCCUPANCY REQUIREMENTS OF NFPA 13.

2. THE ENTIRE BUILDING SHALL BE SERVED BY A WET PIPE TYPE FIRE SPRINKLER SYSTEM. COORDINATE ELECTRICAL, FIRE PROTECTION AND MECHANICAL SPACE REQUIREMENTS CAREFULLY BEFORE PROCEEDING WITH INSTALLATION.

3. EXTEND THE EXISTING SPRINKLER SYSTEM, RELOCATE EXISTING AND ADD NEW SPRINKLER HEADS IN ACCORDANCE WITH NFPA 13, ALL APPLICABLE CODES AND ORDINANCES AND PROJECT REQUIREMENTS TO COMPLETELY PROTECT THE NEW WORK.

4. SYSTEM SHALL BE INSTALLED COMPLETE AND OPERATIONAL, INCLUDING WATER FLOW INDICATOR, CONNECTIONS TO EXISTING ALARM, DRAIN PIPING, IDENTIFICATION SIGNS, ETC.

5. WORK SHALL BE PERFORMED BY A QUALIFIED FIRE SPRINKLER INSTALLER WITH A MINIMUM OF (5) FIVE YEARS EXPERIENCE IN SIMILAR INSTALLATIONS.

6. COORDINATE ALL WORK WITH ALL OTHER TRADES.

7. SUPPLY OWNER AN EXTRA STOCK OF SIX SPRINKLER HEADS (6), THREE (3) OF EACH TYPE, AND A SPRINKLER WRENCH.

FIRE STOPPING:

1. FIRE STOPPING REQUIREMENT: PENETRATIONS THROUGH RATED WALLS AND FLOORS SHALL BE SEALED WITH A MATERIAL CAPABLE OF PREVENTING THE PASSAGE OF FLAMES AND HOT GASSES WHEN SUBJECTED TO THE REQUIREMENTS OF THE TEST STANDARD SPECIFIC FOR FIRE STOPS ASTM-E-814. ACCEPTANCE MATERIALS INCLUDE: DOW CORNING RTV FIRE STOP FOAM FOR BARE PIPE, METAL CONDUIT, AND ELECTRICAL CABLE, 3M FIRE DAM 21.22 AND 230 CAULK FOR BARE PIPE, METAL CONDUIT, AND BUILDING CONSTRUCTION; GAPS 3M FS-195 INTUMESCENT STRIPS FOR INSULATED PIPES, PLASTIC PIPE OR CONDUIT, AND ELECTRICAL CABLE.



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- GENERAL NOTES:**
1. THE DRAWINGS ARE DIAGRAMMATIC IN NATURE. THE CONTRACTOR IS RESPONSIBLE FOR ALL OFFSETS, TRANSITIONS, ELBOWS, ETC. AS REQUIRED IN DUCTWORK, PIPING, SUPPORTS, ETC. TO COMPLETE THE WORK IN A CLEAN, FUNCTIONAL INSTALLATION THAT IS FULLY COORDINATED WITH ALL OTHER TRADES. ANY PRICING EFFORT SHALL TAKE THESE FACTORS INTO ACCOUNT.
 2. MAINTAIN CODE REQUIRED AREA OF SEPARATION FROM OUTSIDE AIR INTAKES TO TERMINATIONS OF EXHAUST, COMBUSTION AIR, PLUMBING VENTS, ETC.
 3. COORDINATE EQUIPMENT HOUSEKEEPING PAD DIMENSIONS AND LAYOUT WITH THE GENERAL CONTRACTOR BASED ON FINAL EQUIPMENT SIZES.
 4. PROVIDE MANUAL BALANCE DAMPERS IN ALL SUPPLY DUCT BRANCH TAPS DOWNSTREAM OF VAV BOXES.
 5. PROVIDE MANUAL BALANCE DAMPERS IN ALL EXHAUST DUCT BRANCH TAPS.
 6. COORDINATE SPACE TEMPERATURE SENSORS AND THERMOSTAT LOCATIONS TO ALIGN VERTICALLY WITH LIGHT SWITCHES.
 7. TEMPERATURE CONTROLS CONTRACTOR SHALL SUBMIT PLANS INDICATING ALL SPACE TEMPERATURE SENSORS, T-STATS, HUMIDITY SENSORS, ETC. AS PART OF SUBMITTAL PROCESS FOR A/E REVIEW PRIOR TO ROUGH-IN.
 8. PROVIDE THROUGH FACE BALANCING FOR ALL DIFFUSERS, REGISTERS, AND GRILLES ABOVE INACCESSIBLE AREAS.
 9. PROVIDE TURNING VANES IN ALL 90° DUCT ELBOWS.
 10. INSTALL EXPOSED DUCTWORK AS HIGH AS POSSIBLE.
 11. ALL DUCT/PIPE PENETRATIONS THROUGH FIRE RATED/SMOKE RATED PARTITIONS SHALL BE CAULKED AND SEALED TO MEET THE RATING REQUIRED. REFER TO LIFE SAFETY DRAWINGS FOR FIRE/SMOKE RATING REQUIREMENTS.
 12. PROVIDE ISOLATION VALVES AT EACH BRANCH LINE OFF OF RISER.
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KEYNOTES

△ Date	Description
- 2021.05.19	BP3: PROMENADE - ISSUE FOR RECORD AND PERMIT

RCRBD
Record Set
TC
07/10/2021

Seal / Signature



05/18/2021

Project Name

SSRC | BASE AREA
IMPROVEMENTS

Project Number

003.7835.000

Description

PROMENADE - MECHANICAL SITE
PLAN

Scale

1" = 20'-0"

1A-M1.100

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KEYNOTES

- M5 ROUTE CONDENSATE DRAIN DOWN IN WALL AND STUB OUT OF WALL TO FLOOR DRAIN.

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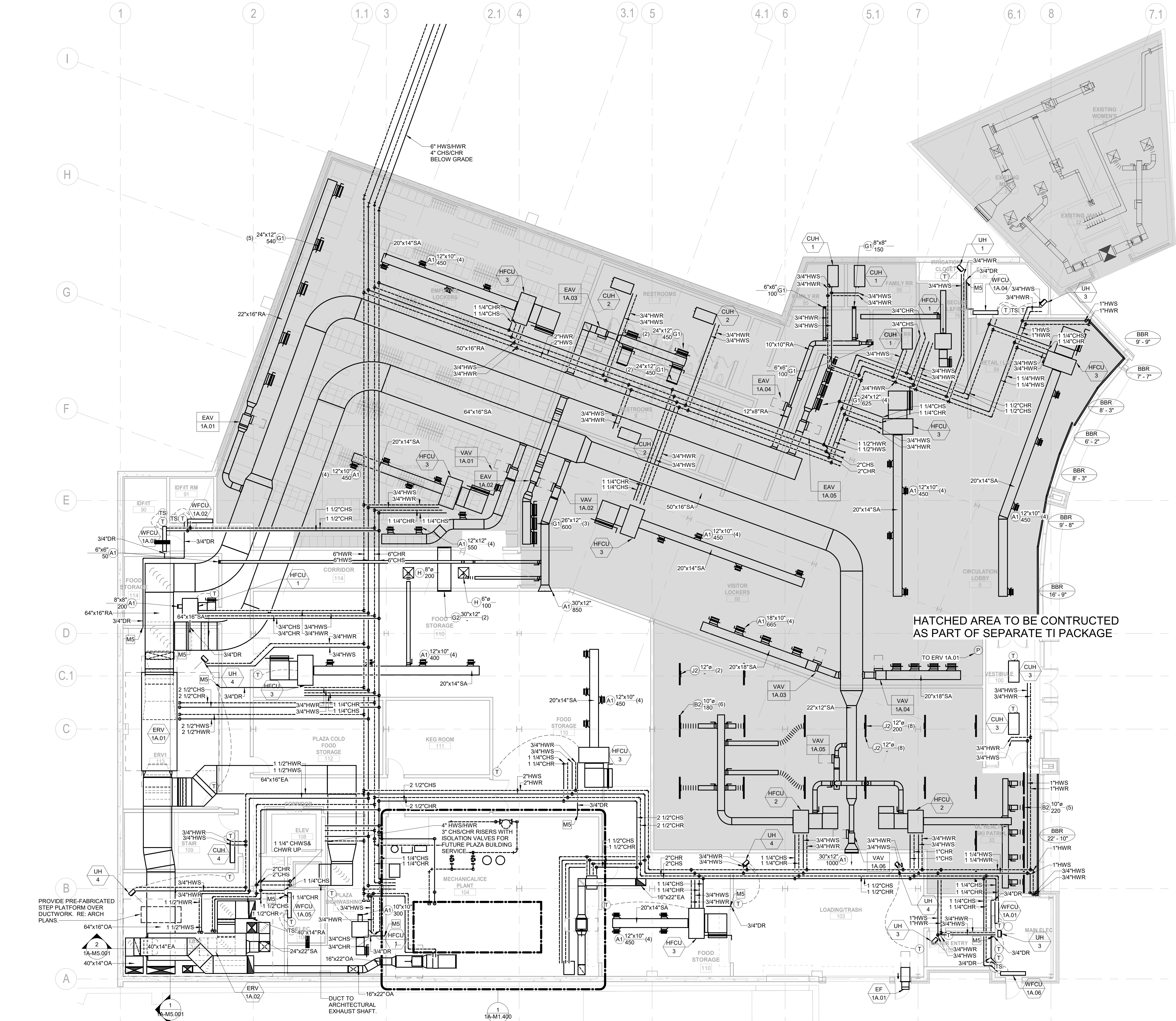
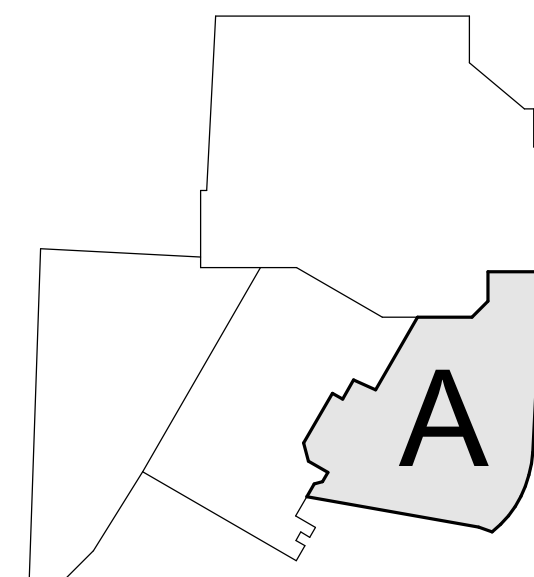
PROMENADE - MECHANICAL PLAN -
LEVEL 00

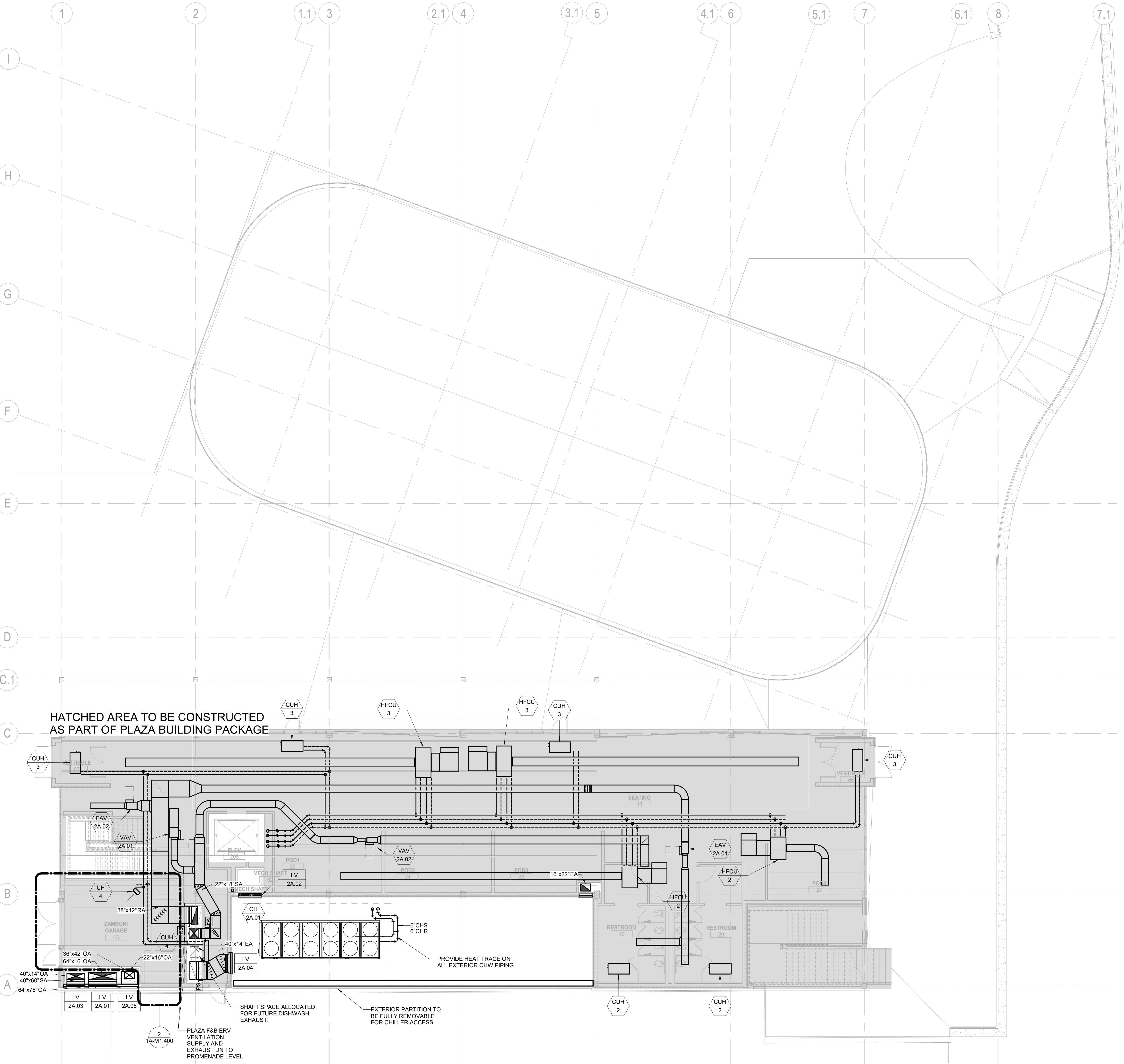
Scale

1/8" = 1'-0"

1A-M1.200

KEY PLAN





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KEYNOTES

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SSRC | BASE AREA
IMPROVEMENTS

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Description

PROMENADE - MECHANICAL PLAN -
LEVEL 01

Scale

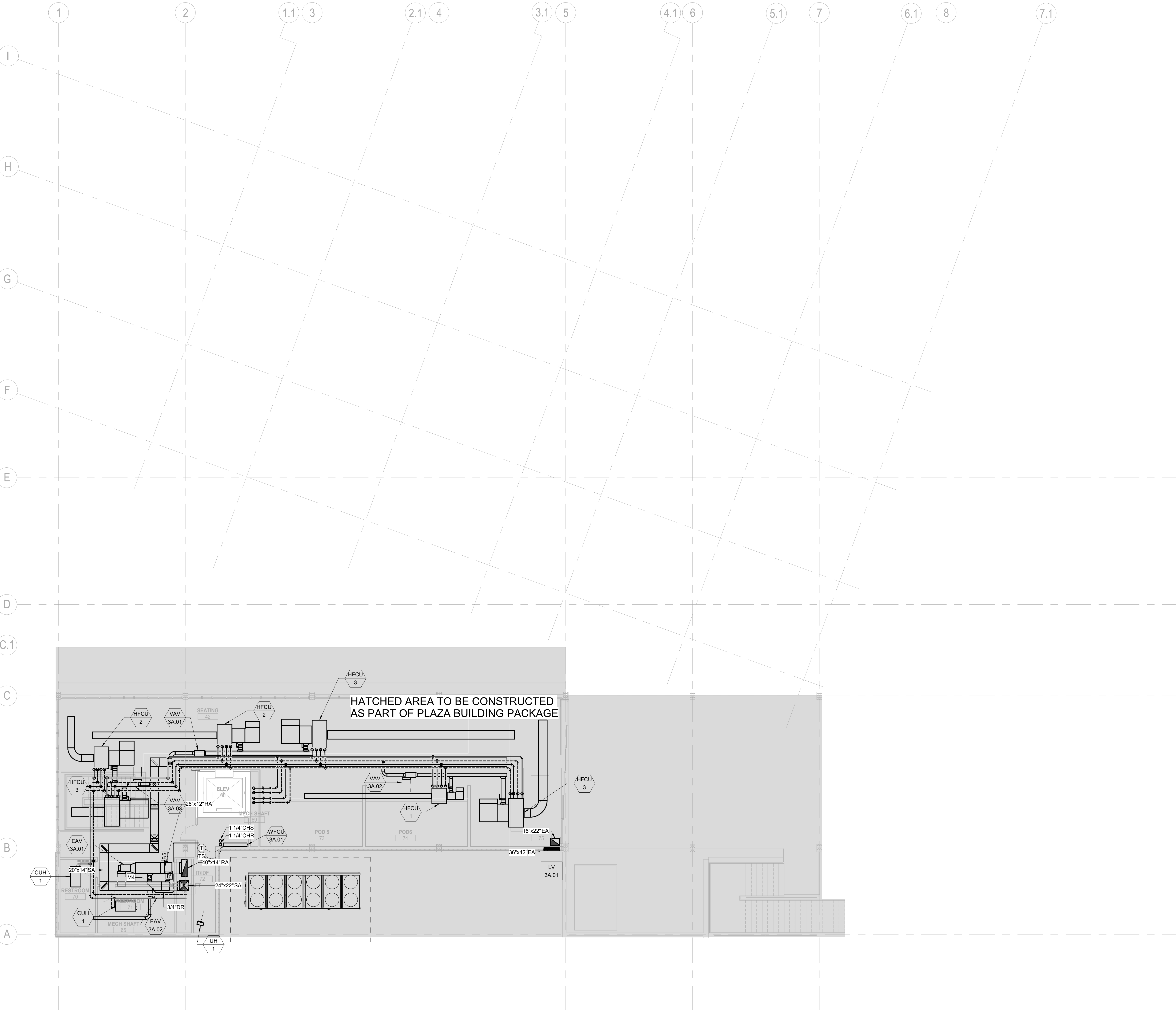
1/8" = 1'-0"

1A-M1.201

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1 MECHANICAL PLAN - LEVEL 01 PLAZA

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



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KEYNOTES

M4	ROUTE CONDENSATE DRAIN DOWN TO APPROVED RECEPTACLE.
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SSRC | BASE AREA
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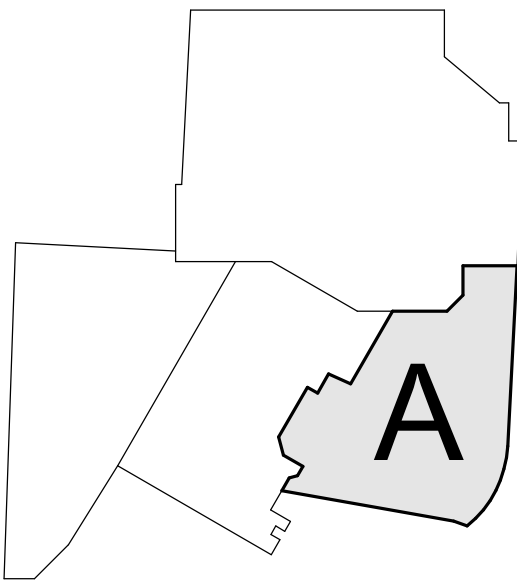
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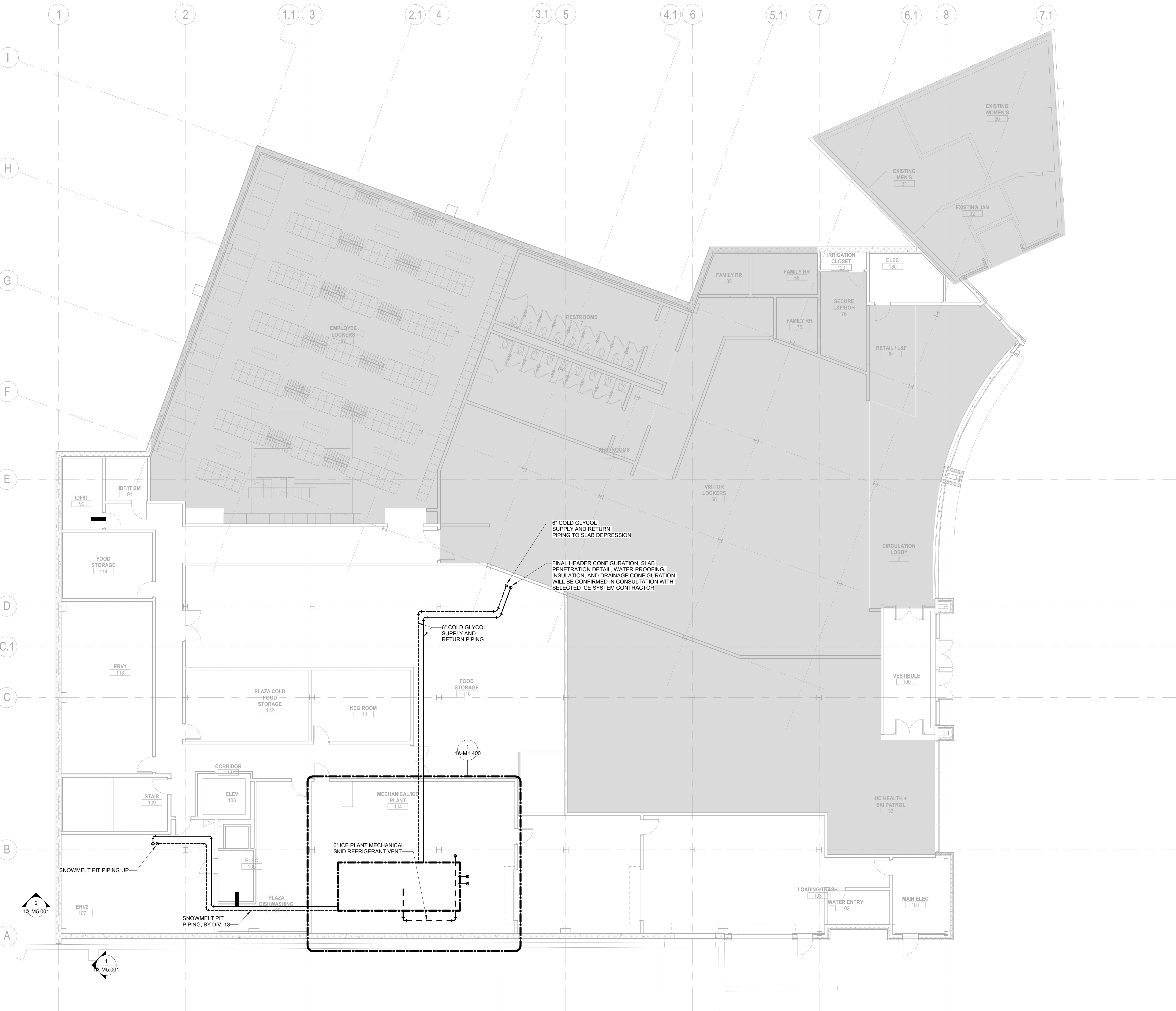
PROMENADE - MECHANICAL PLAN -
LEVEL 02

Scale

1/8" = 1'-0"

KEY PLAN





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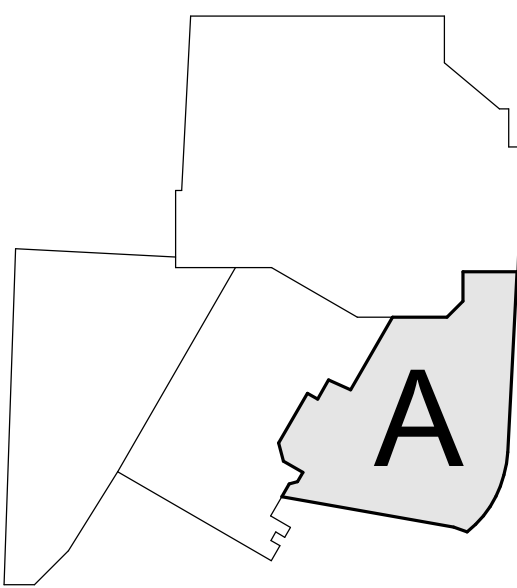
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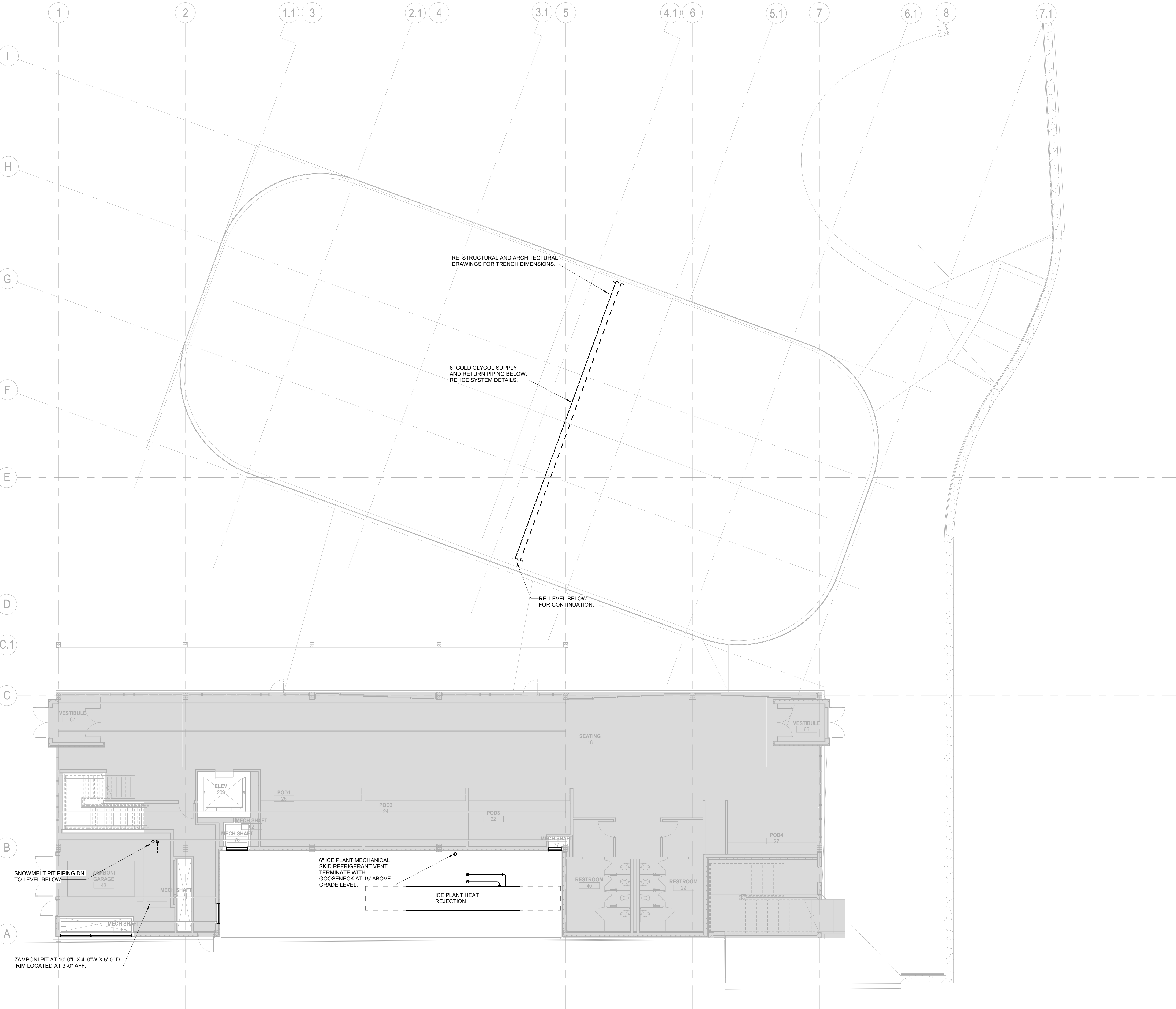
PROMENADE - ICE PLANT PLAN -
LEVEL 00

Scale

1/8" = 1'-0"

KEY PLAN





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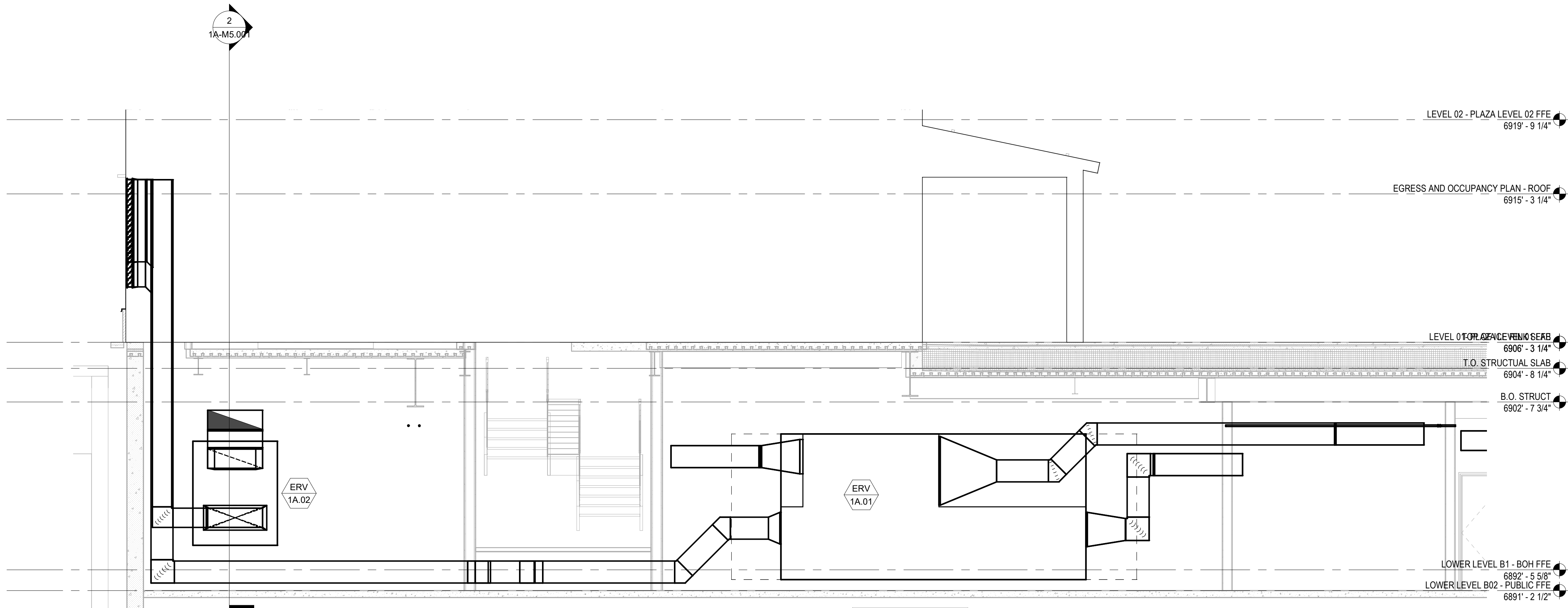
PROMENADE - ICE PLANT PLAN - LEVEL 01

Scale

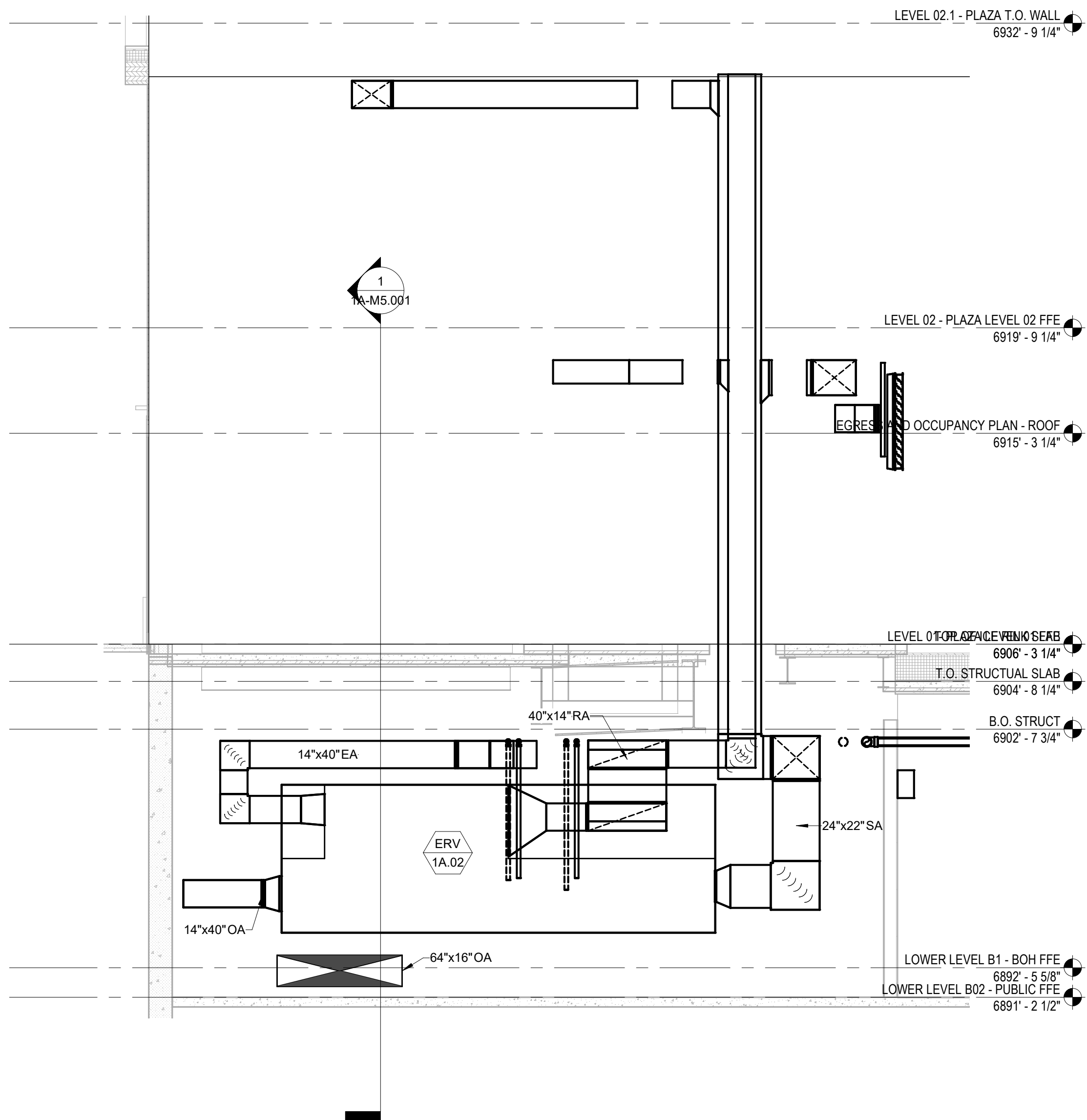
1/8" = 1'-0"

1A-M1.301

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1 PROMENADE MECHANICAL SECTION 1
SCALE: 1/4" = 1'-0"



2 PROMENADE MECHANICAL SECTION 2
SCALE: 1/4" = 1'-0"

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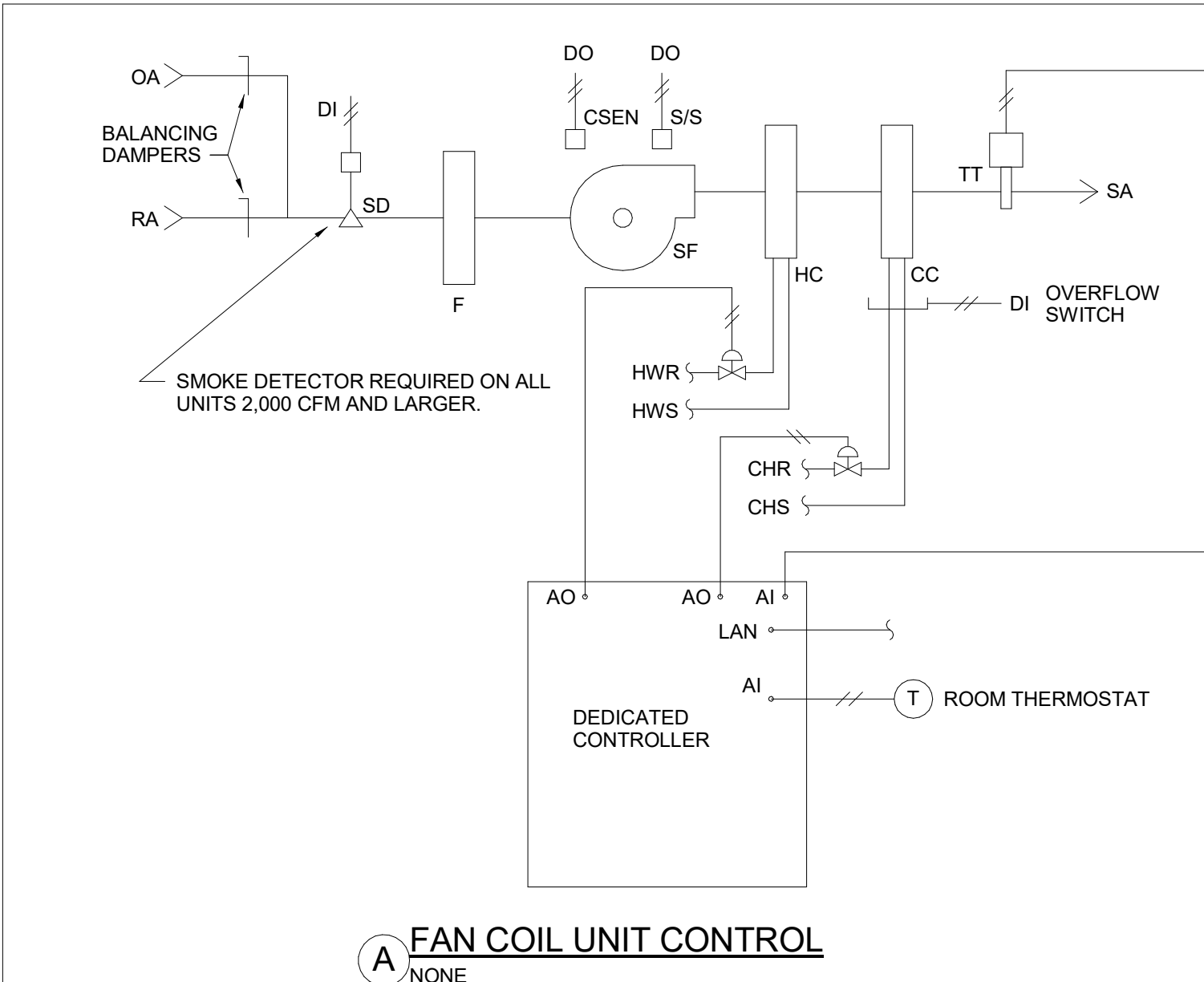
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PROMENADE - MECHANICAL
SECTIONS

Scale

1/4" = 1'-0"

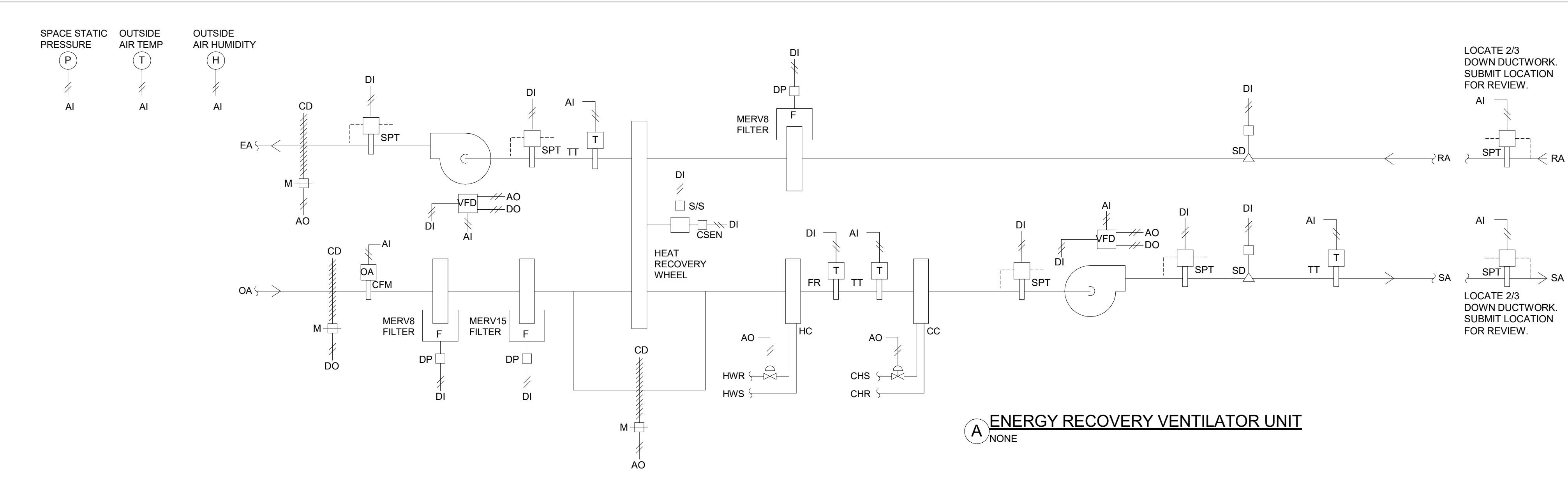
1A-M5.001



FAN COIL UNIT CONTROL

SEQUENCE OF OPERATION:

- A. GENERAL:**
- THE FOLLOWING SEQUENCE OF OPERATION INCLUDES REQUIRED FUNCTIONALITY OF THE FAN COIL UNIT. POINTS REQUIRED TO EXECUTE THIS SEQUENCE SHALL BE COORDINATED BETWEEN THE EQUIPMENT PROVIDER AND TEMPERATURE CONTROLS CONTRACTOR PRIOR TO THE START OF CONSTRUCTION. SUBMIT LIST OF ITEMS TO BE PROVIDED BY THE TEMPERATURE CONTROLS CONTRACTOR IN ORDER TO EXECUTE THIS SEQUENCE.
- B. OCCUPIED MODE:**
- WHEN THE FCU IS IN THE OCCUPIED MODE, THE SUPPLY FAN SHALL OPERATE CONTINUOUSLY. THE SUPPLY FAN SHALL DELIVER CONSTANT AIRFLOW. COOLING VALVE AND HEATING VALVE SHALL MODULATE IN SEQUENCE TO MAINTAIN DISCHARGE AIR TEMPERATURE. DISCHARGE AIR TEMPERATURE SHALL BE RESET AS NECESSARY TO MAINTAIN SPACE TEMPERATURE.
- C. UNOCCUPIED MODE:**
- WHEN THE FCU ENTERS UNOCCUPIED MODE THE SUPPLY FAN SHALL BE OFF, COOLING CONTROL VALVE SHALL CLOSE, AND HEATING CONTROL VALVE SHALL CLOSE.
 - SPACE TEMPERATURE SHALL BE SETBACK AND MAINTAINED BELOW A 5F (ADJ.) OFFSET TO OCCUPIED MODE COOLING SETPOINT AND ABOVE A 10F (ADJ.) OFFSET TO OCCUPIED MODE HEATING SETPOINT.
 - WHEN COOLING IS REQUIRED IN THE SPACE, THE SUPPLY FAN SHALL CYCLE ON AND COOLING SHALL MODULATE TO MAINTAIN DISCHARGE AIR TEMPERATURE.
 - WHEN HEATING IS REQUIRED IN THE SPACE, THE SUPPLY FAN SHALL CYCLE ON AND HEATING SHALL MODULATE TO FULL.
 - UPON SPACE TEMPERATURE REACHING UNOCCUPIED MODE SETPOINT, UNIT SHALL CYCLE OFF.
- D. OPTIMUM START WARM-UP MODE:**
- PRIOR TO SCHEDULED OCCUPANCY, IF THE SPACE TEMPERATURE IS LESS THAN THE MORNING WARM-UP SETPOINT OF 70F (ADJ.), THE OPTIMUM START WARM-UP SEQUENCE SHALL BE INITIATED.
 - THE CONTROL SYSTEM SHALL CALCULATE THE REQUIRED TIME TO BRING SPACE TEMPERATURE TO OCCUPIED HEATING SETPOINT BASED ON THE CURRENT SPACE TEMPERATURE AND THE CURRENT OUTSIDE AIR TEMPERATURE WHEN THE SEQUENCE IS INITIATED.
 - UPON INITIATING OPTIMUM START WARM-UP MODE, THE SUPPLY FAN AND HEATING SHALL MODULATE AS OUTLINED IN OCCUPIED MODE SEQUENCE TO MAINTAIN SPACE TEMPERATURE SETPOINT.
 - COOLING SHALL BE LOCKED OUT.
 - REVERT TO OCCUPIED MODE WHEN SPACE TEMPERATURE HAS REACHED OCCUPIED HEATING SETPOINT.
- E. OPTIMUM START COOL-DOWN MODE:**
- PRIOR TO SCHEDULED OCCUPANCY, IF THE SPACE TEMPERATURE IS MORE THAN THE MORNING COOL-DOWN SETPOINT OF 78F (ADJ.), THE OPTIMUM START COOL-DOWN SEQUENCE SHALL BE INITIATED.
 - THE CONTROL SYSTEM SHALL CALCULATE THE REQUIRED TIME TO BRING SPACE TEMPERATURE TO OCCUPIED COOLING SETPOINT BASED ON THE CURRENT SPACE TEMPERATURE AND THE CURRENT OUTSIDE AIR TEMPERATURE WHEN THE SEQUENCE IS INITIATED.
 - UPON INITIATING OPTIMUM START COOL-DOWN MODE, THE SUPPLY FAN AND COOLING SHALL MODULATE AS OUTLINED IN OCCUPIED MODE SEQUENCE TO MAINTAIN SPACE TEMPERATURE SETPOINT.
 - HEATING SHALL BE LOCKED OUT.
 - REVERT TO OCCUPIED MODE WHEN SPACE TEMPERATURE HAS REACHED OCCUPIED COOLING SETPOINT.
- F. FAN SAFETY CONTROLS:**
- DE-ENERGIZE THE SUPPLY FAN WHENEVER THE OVERFLOW SENSOR HAS TRIPPED OR SUPPLY FAN STATUS INDICATES A FAILURE (AFTER A TWO-MINUTE DELAY). MANUAL RESET REQUIRED FOR ALL FAILURES.
 - ALARM THE BMS WITH THE APPROPRIATE ALARM MESSAGE.
- G. SMOKE DETECTION SHUT-DOWN:**
- UNITS 2,000 CFM AND LARGER: WHEN SMOKE IS DETECTED AT THE RETURN AIR INLET, THE SUPPLY FAN SHALL BE DE-ENERGIZED, THE COOLING SHALL BE DISABLED, AND HEATING SHALL BE DISABLED.
 - WHEN A FAN COIL UNIT HAS SHUT DOWN DUE TO SMOKE DETECTION, THE ASSOCIATED VENTILATION SYSTEM SERVING THE UNIT SHALL BE SHUT DOWN. PROVIDE ADDRESSABLE ALARM AT THE BMS OPERATOR STATION.
 - WHEN THE VENTILATION SYSTEM SERVING THE UNIT HAS SHUT DOWN DUE TO SMOKE DETECTION, THE FCU SUPPLY FAN SHALL BE DE-ENERGIZED, COOLING SHALL BE DISABLED, AND HEATING SHALL BE DISABLED.
- H. DISCHARGE AIR TEMPERATURE:**
- PROVIDE A CASCADE RESET (VIA PID LOOP) OF DISCHARGE AIR TEMPERATURE TO MAINTAIN SPACE TEMPERATURE.
 - PROVIDE A DEAD-BAND BETWEEN COOLING AND HEATING WHERE THE COOLING AND HEATING ARE DISABLED AND THE SUPPLY FAN SHALL REMAIN ENERGIZED.
- I. HEATING CONTROL:**
- THE HEATING CONTROL VALVE SHALL MODULATE TO MAINTAIN THE DAT. HEATING CONTROL VALVE SHALL CLOSE IF THE FANS ARE OFF.
- J. COOLING CONTROL:**
- THE COOLING CONTROL VALVE SHALL MODULATE TO MAINTAIN THE DAT. COOLING CONTROL VALVE SHALL CLOSE IF THE FANS ARE OFF.

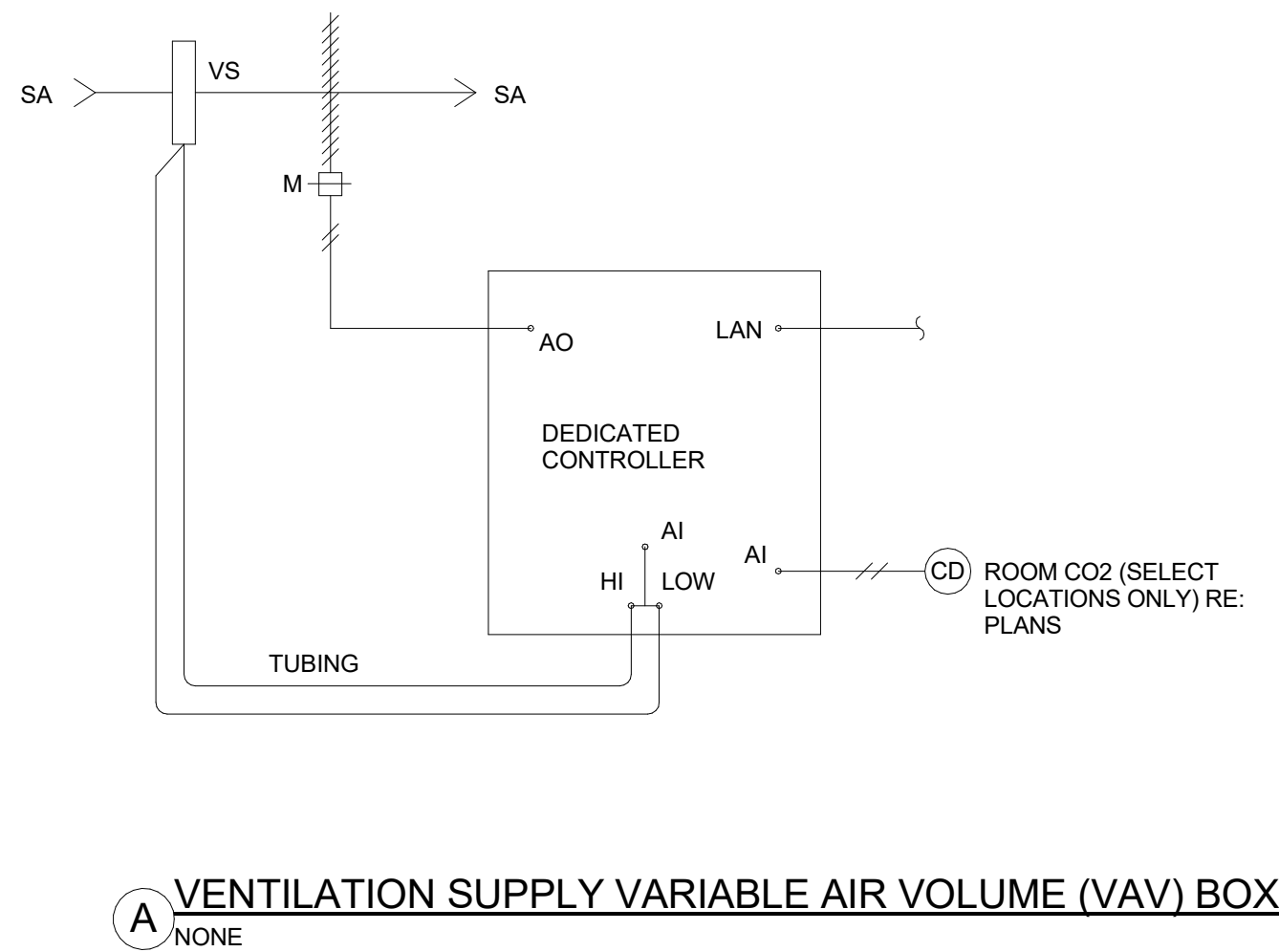


ENERGY RECOVERY VENTILATOR UNIT

SEQUENCE OF OPERATION:

- A. CONFIGURATION, RE: SCHEDULE**
- B. OCCUPIED MODE:**
- WHEN THE ERV IS IN THE OCCUPIED MODE, THE SUPPLY AND RETURN FANS SHALL OPERATE CONTINUOUSLY. THE SUPPLY FAN VFD SHALL MODULATE TO MAINTAIN THE SUPPLY DUCT STATIC PRESSURE AND THE EXHAUST FAN VFD SHALL MODULATE TO MAINTAIN THE EXHAUST DUCT STATIC PRESSURE. CHILLED WATER CONTROL VALVE, HEATING WATER CONTROL VALVE, AND HEAT RECOVERY WHEEL SHALL MODULATE IN SEQUENCE TO MAINTAIN DISCHARGE AIR TEMPERATURE (DAT). THE ERV SHALL ENTER OCCUPIED MODE BASED ON TIME OF DAY SCHEDULE AT BMS OPERATOR STATION.
- C. UNOCCUPIED MODE:**
- WHEN THE ERV IS IN THE UNOCCUPIED MODE THE SUPPLY AND EXHAUST FANS SHALL BE OFF. THE HEAT WHEEL SHALL STOP, CHILLED WATER CONTROL VALVE SHALL CLOSE, HEATING WATER CONTROL VALVE SHALL CLOSE, THE OUTSIDE AIR DAMPER SHALL CLOSE, AND THE EA DAMPER SHALL CLOSE.
 - WHEN TEMPERATURE DOWNSTREAM OF THE HEATING COIL FALLS TO 45F (ADJ.), HEATING WATER VALVE SHALL MODULATE TO FULL OPEN AND REMAIN OPEN UNTIL TEMPERATURE DOWNSTREAM OF THE HEATING COIL RISES ABOVE SETPOINT.
- D. FAN SAFETY CONTROLS:**
- DE-ENERGIZE THE SUPPLY AND EXHAUST FANS WHENEVER EITHER SMOKE DETECTOR HAS TRIPPED, HEAT RECOVERY ROTATION DETECTION FAILS, OR A FAN STATUS INDICATES A FAILURE (AFTER A TWO-MINUTE DELAY). SMOKE DETECTORS AND FAN FAILURES REQUIRE A MANUAL RESET.
 - DE-ENERGIZE THE SUPPLY AND EXHAUST FANS WHEN THE SUPPLY FAN DISCHARGE STATIC PRESSURE HIGH-LIMIT REACHES 4.0 INCHES WC (ADJ.)
 - DE-ENERGIZE THE SUPPLY AND EXHAUST FANS WHEN THE EXHAUST FAN DISCHARGE STATIC PRESSURE HIGH-LIMIT REACHES 2.0 INCHES WC (ADJ.)
 - PROVIDE SUCTION STATIC PRESSURE SWITCH AT INLET OF SUPPLY FAN. SWITCH TO BE TIED TO SUPPLY FAN START CIRCUIT. DE-ENERGIZE SUPPLY AND EXHAUST FAN WHEN SUCTION SUPPLY FAN STATIC PRESSURE HIGH-LIMIT REACHES 3.0 INCHES WC (ADJ.)
 - ALARM THE BMS WITH THE APPROPRIATE ALARM MESSAGE.
- E. VFD CONTROL:**
- WHEN THE SUPPLY AND EXHAUST FANS ARE TURNED ON, EACH VFD SHALL SLOWLY RAMP UP TO SETPOINT AND MODULATE TO MAINTAIN THE CORRESPONDING DUCT STATIC PRESSURE. THE STATIC PRESSURE SENSORS SHALL BE LOCATED BY THIS DIVISION.
 - SUBMIT SENSOR LOCATIONS TO ENGINEER FOR REVIEW.
 - SENSING DEVICE SHALL BE MULTIPLE POINT, NON-PULSATING STATIC SENSING SECTION WITH SELF AVERAGING MANIFOLD.
- F. OUTSIDE AIR MONITORING AND TRENDING:**
- MEASURE AND TREND THE OUTDOOR AIRFLOW THROUGH THE OUTDOOR AIRFLOW MEASURING STATION LOCATED AT THE INTAKE OF THE UNIT.
- G. BUILDING PRESSURE CONTROL:**
- ZONE LEVEL EXHAUST AND VENTILATION:**
 - EACH EXHAUSTED AREA IS PROVIDED WITH A CONSTANT VOLUME EAV BOX FOR PRESSURE INDEPENDENT EXHAUST AIRFLOW CONTROL. EACH VENTILATED AREA IS PROVIDED WITH EITHER A CONSTANT VOLUME OR A VARIABLE VOLUME VAV BOX FOR PRESSURE INDEPENDENT VENTILATION AIRFLOW CONTROL AND BUILDING PRESSURE CONTROL.
 - ALL EXHAUST EAV BOXES SHALL MODULATE TO MAINTAIN FIXED EXHAUST AIRFLOW RATES INDICATED.
 - SUPPLY VAV BOXES LOCATED IN THE SAME SPACE AS EAV BOXES SHALL BE CONSTANT VOLUME AND SHALL MODULATE TO MAINTAIN FIXED VENTILATION SUPPLY AIRFLOW.
 - SUPPLY VAV BOXES LOCATED IN AREAS THAT ARE NOT PROVIDED WITH EAV BOXES (HEALTH CLINIC, FOOD STORAGE, ETC.) SHALL MODULATE TOGETHER TO MAINTAIN POSITIVE BUILDING STATIC PRESSURE SETPOINT OF 0.05" W.C. AS MEASURED IN THE HEALTH CLINIC SPACE. SUPPLY VAV BOXES SHALL MODULATE AS A PERCENTAGE OF DESIGN AIRFLOW UP TO A MAXIMUM OF 125% OF DESIGN CFM.
 - SYSTEM STARTUP:**
 - PRIOR TO EQUIPMENT STARTUP, ENSURE VENTILATION SYSTEM HAS ADEQUATE OPENINGS ONTO EACH AREA TO ALLOW FOR VENTILATION SUPPLY AIR FOR TESTING. DO NOT OPERATE THE ERV AT AIRFLOWS HIGHER THAN THE CONNECTED VAV BOXES CAN WITHSTAND.
- H. DISCHARGE AIR CONDITIONS:**
- COOLING MODE: WHEN OUTSIDE AIR RISES ABOVE 65F (ADJ.), THE UNIT SHALL ENTER COOLING MODE.**
 - DISCHARGE AIR DRY BULB TEMPERATURE SHALL FLOAT FROM A MINIMUM OF 65F (ADJ.) TO A MAXIMUM DISCHARGE AIR DRY BULB TEMPERATURE SETPOINT OF 70F (ADJ.). WHEN DISCHARGE AIR IS BETWEEN MINIMUM AND MAXIMUM, CHILLED WATER CONTROL VALVE SHALL CLOSE, THE HEAT WHEEL SHALL BE DISABLED, AND THE OUTSIDE AIR BYPASS DAMPER SHALL BE OPEN. IF DISCHARGE AIR TEMPERATURE RISES ABOVE SETPOINT, THE COOLING CONTROL VALVE SHALL MODULATE TO MAINTAIN DISCHARGE AIR DRY BULB TEMPERATURE SETPOINT.
 - CHILLED WATER COOLING AND HEAT WHEEL SHALL BE ENABLED TOGETHER IN STAGES.
 - HEATING MODE: WHEN OUTSIDE AIR FALLS BELOW 65F (ADJ.), THE UNIT SHALL ENTER HEATING MODE.**
 - THE BMS SHALL CONTROL HEATING WATER CONTROL VALVE TO ENSURE UNIT DISCHARGE AIR DRY BULB TEMPERATURE DOES NOT FALL BELOW 65F (ADJ.) MINIMUM.
 - THE BMS SHALL RESET DISCHARGE AIR DRY BULB TEMPERATURE SETPOINT ACCORDING TO THE FOLLOWING RESET STRATEGY:

OUTSIDE AIR DRY BULB TEMPERATURE	DISCHARGE AIR DRY BULB TEMPERATURE
75 DEGREES F (ADJ.)	75 DEGREES F (ADJ.)
65 DEGREES F (ADJ.)	65 DEGREES F (ADJ.)
50 DEGREES F	RAMP LINEARLY BETWEEN 75-65 F
BETWEEN 20-50 DEGREES F	
 - HEATING WATER CONTROL VALVE AND HEAT WHEEL SHALL BE ENABLED TOGETHER IN STAGES.
 - IF DISCHARGE AIR DRY BULB TEMPERATURE DROPS BELOW 40F (ADJ.), DE-ENERGIZE FANS AND CLOSE OA AND RELIEF AIR DAMPERS. ALARM BMS.



VENTILATION SUPPLY VARIABLE AIR VOLUME (VAV) BOX

SEQUENCE OF OPERATION:

- A. OCCUPIED MODE:**
- CONSTANT VOLUME UNITS:** WHEN AIR HANDLING SYSTEM IS IN OCCUPIED MODE, UNIT SHALL MODULATE TO MAINTAIN CONSTANT AIRFLOW.
 - UNIT SHALL REPORT CONTROL DAMPER POSITION AND PRIMARY AIRFLOW AS SEPARATE VALUES TO THE BMS. REPORT DAMPER POSITION AS PERCENTAGE OPEN. REPORT PRIMARY AIRFLOW IN CFM.
- B. UNOCCUPIED MODE:**
- UNIT VOLUME DAMPER SHALL BE FULLY CLOSED.
- C. ALARMS:**
- ALARM THE TIME, VAV BOX DESIGNATION, AND DURATION OF ALL VAV OVER-RIDES.

EXHAUST & VENTILATION RELIEF VARIABLE AIR VOLUME (VAV) BOXES

SEQUENCE OF OPERATION:

- A. OCCUPIED MODE:**
- CONSTANT VOLUME UNITS:** WHEN AIR HANDLING SYSTEM IS IN OCCUPIED MODE, UNIT SHALL MODULATE TO MAINTAIN CONSTANT AIRFLOW.
 - UNIT SHALL REPORT CONTROL DAMPER POSITION AND PRIMARY AIRFLOW AS SEPARATE VALUES TO THE BMS. REPORT DAMPER POSITION AS PERCENTAGE OPEN. REPORT PRIMARY AIRFLOW IN CFM.
- B. UNOCCUPIED MODE:**
- UNIT VOLUME DAMPER SHALL BE FULLY CLOSED.
- C. ALARMS:**
- ALARM THE TIME, VAV BOX DESIGNATION, AND DURATION OF ALL VAV OVER-RIDES.

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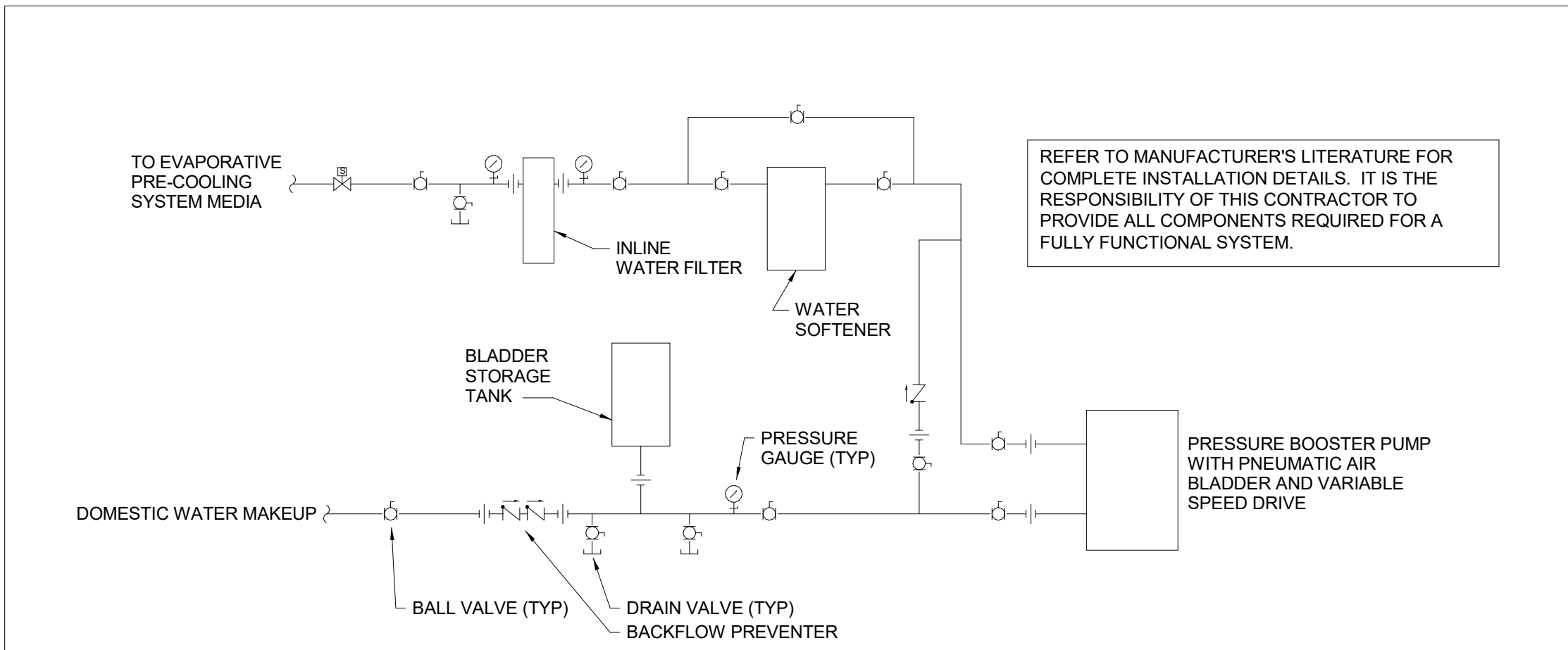
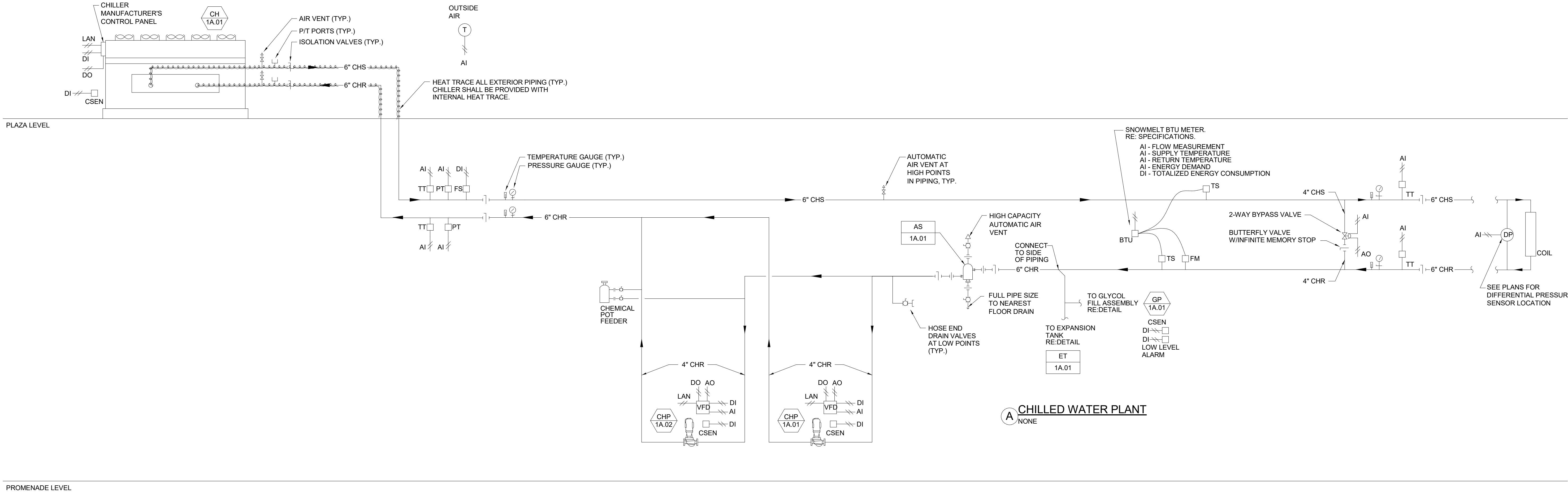
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B EVAPORATIVE PRE-COOLING SYSTEM CONTROL

NONE

SEQUENCE OF OPERATION:

- GENERAL:
 - THE PROJECT INCLUDES ONE EVAPORATIVE PRE-COOLING SYSTEM WHICH SERVES THE PROMENADE BUILDING AIR-COOLED CHILLER.
 - CONTROL FOR THE EVAPORATIVE PRE-COOLING SYSTEM SHALL BE INTERLOCKED WITH CHILLER PACKAGED CONTROLS.
 - PROVIDE SLOW CLOSING SOLENOID VALVE TO MINIMIZE RAPID PRESSURE CHANGE IN THE SYSTEM.
- OPERATION:
 - ON A CALL FOR COOLING AT THE CHILLER, THE BOOSTER PUMP SHALL ENERGIZE AND THE SOLENOID VALVE SHALL OPEN TO DELIVER COOLING WATER TO THE EVAPORATIVE PRE-COOLING MEDIA AT THE UNIT CONDENSER. WHEN THE CHILLER NO LONGER HAS A CALL FOR COOLING, THE BOOSTER PUMP SHALL BE DE-ENERGIZED AND THE SOLENOID VALVE SHALL CLOSE.

CHILLED WATER PLANT SEQUENCE OF OPERATION:

- GENERAL:
 - THE BMS SHALL INDEPENDENTLY MONITOR POINTS INDICATED ON THE CONTROL DIAGRAM AND ALL POINTS REQUIRED TO PERFORM THE FOLLOWING SEQUENCES AND MONITORING FUNCTIONS.
 - THE BMS SHALL ENABLE/DISABLE THE CHILLED WATER SYSTEM BASED UPON:
 - OUTDOOR AIR TEMPERATURE - ENABLE CHILLER SYSTEM WHEN OUTSIDE AIR TEMPERATURE IS ABOVE 55F (ADJ.)
 - SYSTEM LOAD
 - MANUAL OR FORCED
- SEQUENCE OF OPERATION:
 - INTENT: THE BMS SHALL CONTROL THE CHILLED WATER SYSTEM INCLUDING PUMPS, VALVES, AND THE PACKAGED CHILLER MICROPROCESSOR. THE BMS SHALL PERFORM ALL START/STOP, TEMPERATURE SETPOINT, AND SCHEDULING FUNCTIONS. THE PACKAGED CHILLER MICROPROCESSOR WILL PERFORM ALL INTERNAL CHILLER TEMPERATURE CONTROL FUNCTIONS, ECONOMIZER FUNCTIONS, AND CHILLER SAFETY FUNCTIONS AND SHALL COMMUNICATE WITH THE BMS VIA A SERIAL COMMUNICATION INTERFACE.
 - START SEQUENCE: UPON SIGNAL TO ENABLE AT THE BMS OPERATOR STATION, THE BMS SHALL:
 - ENABLE THE VARIABLE SPEED DISTRIBUTION PUMPING SYSTEM. BYPASS VALVE POSITION OPEN.
 - START AND PROVE BOTH CHILLED WATER PUMPS.
 - CONTINUALLY MONITOR THE PRESSURE IN THE SUPPLY AND RETURN PIPING MAINS TO THE CHILLER AND DISPLAY BOTH PRESSURE AND PRESSURE DIFFERENTIAL AT THE BMS OPERATOR'S WORKSTATION. CONTINUALLY MONITOR FLOW TO THE CHILLER VIA FLOW METER AND DISPLAY AT THE BMS OPERATOR'S WORKSTATION. DISPLAY BOTH MINIMUM AND OPERATING EVAPORATOR FLOW FOR THE CHILLER AT BMS OPERATOR'S WORKSTATION.
 - MODULATE BYPASS VALVE, AS NECESSARY, TO MAINTAIN PLANT MINIMUM FLOW (ADJ.) AS MEASURED AT THE PLANT BTU METERING STATION. WHEN FLOW IS ABOVE REQUIRED MINIMUM CHILLER FLOW, BYPASS VALVE SHALL MODULATE CLOSED.
 - ENABLE THE CHILLER VIA SIGNAL TO THE PACKAGED CHILLER MICROPROCESSOR ONCE MINIMUM FLOW TO THE CHILLER IS PROVEN.
 - STOP SEQUENCE: UPON SIGNAL TO DISABLE AT THE BMS OPERATOR STATION, THE BMS SHALL:
 - DISABLE THE CHILLERS VIA SIGNAL TO THE PACKAGED CHILLER MICROPROCESSOR.
 - CONFIRM THE CHILLER HAS STOPPED VIA COMMUNICATION INTERFACE WITH THE PACKAGED CHILLER MICROPROCESSOR.
 - DISABLE ALL CHILLED WATER PUMPS.
 - OPEN BYPASS VALVE.
 - CHILLER SHALL NOT BE RESTARTED FOR A FIVE MINUTE DELAY (ADJ.).
 - TEMPERATURE CONTROL: UPON SUCCESSFUL STARTUP, PACKAGED CHILLER MICROPROCESSOR SHALL MAINTAIN CHILLED WATER SUPPLY TEMPERATURE SETPOINT ADJUSTABLE AT THE BMS OPERATOR STATION.
 - INITIAL CHILLED WATER SUPPLY TEMPERATURE SETPOINT SHALL BE 44 DEGREES F.
 - CHILLED WATER SUPPLY TEMPERATURE SETPOINT SHALL BE RESET BY THE BMS ACCORDING TO THE FOLLOWING RESET SCHEDULE:

OUTSIDE AIR DRY BULB TEMPERATURE	CHILLED WATER LEAVING TEMPERATURE
80 DEGREES F (ADJ.)	44 DEGREES F (ADJ.)
60 DEGREES F (ADJ.)	50 DEGREES F (ADJ.)
BETWEEN 80-60 DEGREES F	RAMP LINEARLY BETWEEN 44-50F
 - WHEN CHILLED WATER SUPPLY TEMPERATURE IS RESET ABOVE INITIAL SETPOINT AND ANY ZONE SERVED IS ABOVE COOLING SETPOINT FOR MORE THAN 10 CONSECUTIVE MINUTES (ADJ.), CHILLED WATER SETPOINT SHALL BE RETURNED TO INITIAL CHILLED WATER SETPOINT. AFTER DELAY OF 1 HOUR (ADJ.), CHILLED WATER SUPPLY TEMPERATURE RESET SHALL BE ENABLED.
 - CHILLER ECONOMIZER MODE: WHEN OUTSIDE AIR IS 5 DEGREES F (ADJ.) LOWER THAN THE CHILLED WATER SUPPLY TEMPERATURE SETPOINT, THE PACKAGED CHILLER MICROPROCESSOR SHALL ENABLE ECONOMIZER MODE. WHEN ECONOMIZER MODE IS ENABLED, THE PACKAGED CHILLER MICROPROCESSOR SHALL STOP COMPRESSOR COOLING AND DIVERT WATER AS REQUIRED FOR FREE COOLING. ALARM BMS IF ECONOMIZER MODE IS ENABLED AND CHILLED WATER SUPPLY TEMPERATURE IS ABOVE SETPOINT FOR 15 MINUTES (ADJ.).
- PUMP CONTROL: ONCE CHILLER START SEQUENCE IS COMPLETE, THE PUMP VFD'S SHALL MODULATE THEIR RESPECTIVE PUMPS IN PARALLEL TO MAINTAIN SYSTEM DIFFERENTIAL PRESSURE SETPOINT. REQUIRED MINIMUM SYSTEM FLOW SHALL BE 200 GPM (ADJ.) VFD HZ SETPOINTS TO MAINTAIN MINIMUM FLOW SHALL BE DETERMINED DURING TESTING AND BALANCING AND SHALL BE DETERMINED AND PROGRAMMED FOR TWO PUMPS RUNNING IN PARALLEL AND ONLY ONE PUMP RUNNING DURING MINIMUM FLOW CONDITION. THE BMS SHALL BE CAPABLE OF ENABLING AND DISABLING INDIVIDUAL PUMP VFD'S SEPARATELY AT THE BMS OPERATOR STATION. IN RESPONSE TO LOW-LOAD, THE VFD'S SHALL MODULATE THEIR RESPECTIVE PUMPS IN PARALLEL TO MAINTAIN A SYSTEM DIFFERENTIAL PRESSURE SETPOINT.
 - INITIAL DIFFERENTIAL PRESSURE SETPOINT SHALL BE DETERMINED UPON SYSTEM TESTING AND BALANCING.
- BYPASS VALVE CONTROL: ONCE CHILLED WATER FLOW APPROACHES PLANT MINIMUM FLOW (AS INDICATED VIA DIRECT MEASUREMENT AT CHILLED WATER FLOW METER), THE BYPASS VALVE SHALL MODULATE OPEN TO MAINTAIN MINIMUM SYSTEM FLOW. AS BYPASS VALVE APPROACHES FULL OPEN, PUMP VFD'S SHALL INCREASE, IF NECESSARY, TO ENSURE CHILLED WATER FLOW DOES NOT DECREASE BELOW MINIMUM SYSTEM FLOW.
- CHILLED WATER PUMP FAILURE: UPON FAILURE OF ONE OF THE CHW PUMPS, RESET SEQUENCE TO UTILIZE REMAINING PUMP AND GENERATE AN APPROPRIATE ALARM AT THE BMS OPERATOR STATION.
- CHILLER FAILURE: UPON CHILLER FAILURE, THE BMS SHALL ALARM AND SHALL AUTOMATICALLY INITIATE A CHILLED WATER PLANT SHUT DOWN.
- COMMUNICATION FAILURE: UPON A LOSS OF SIGNAL FROM THE PACKAGED CHILLER MICROPROCESSOR, THE BMS SHALL ALLOW THE SYSTEM TO CONTINUE TO RUN AND SHALL GENERATE AN APPROPRIATE ALARM AT THE BMS OPERATOR STATION.
- SYSTEM SOFT START: THE CHILLER SEQUENCING SOFTWARE SHALL PROVIDE OPERATOR ADJUSTABLE CHILLED WATER TEMPERATURE RAMP RATES TO ENSURE THAT THE SYSTEM WATER TEMPERATURE DOES NOT APPROACH SETPOINT TOO QUICKLY OR TOO SLOWLY AT SYSTEM START-UP. THIS PREVENTS THE UNNECESSARY OPERATION OF CHILLERS AND LIMITS SYSTEM ELECTRICAL DEMAND DURING DISTRIBUTION LOOP TEMPERATURE PULL DOWN. THE MAXIMUM COOL DOWN RATE IN THE CHILLED WATER LOOP SHALL NOT EXCEED 2F PER MINUTE (ADJ.).
- CHILLER STATUS DISPLAY: THE BMS SHALL PROVIDE AN OPERATING STATUS REPORT FOR THE CHILLER INCLUDING THE FOLLOWING:
 - CHILLER OPERATING MODE (COOLING MODE, ECONOMIZER MODE, OFF)
 - CHILLER LEAVING WATER TEMPERATURE SETPOINT.
 - CHILLED WATER ENTERING AND LEAVING TEMPERATURES.
 - CHILLED WATER ENTERING AND LEAVING PRESSURES.
 - CHILLER DIFFERENTIAL PRESSURE.
 - CHILLER WATER FLOW.
 - CHILLER LOAD AS MEASURED AT BTU METERING STATION.
 - CHILLER LOAD IN PERCENTAGE OF TOTAL CHILLER CAPACITY.
- DIAGNOSTIC/PROTECTION: THE BMS SHALL BE ABLE TO ALARM FROM ALL SENSED POINTS AND DIAGNOSTIC ALARMS SENSED BY THE PACKAGED CHILLER MICROPROCESSOR. ALARM LIMITS SHALL BE DESIGNED FOR ALL SENSED ANALOG POINTS.
- CHILLER PLANT STATUS DISPLAY: THE BMS SHALL PROVIDE A PLANT STATUS REPORT. THE DISPLAY SHALL INCLUDE THE FOLLOWING:
 - ON/OFF STATUS OF CHILLER.
 - ON/OFF STATUS AND SPEED OF EACH PUMP.
 - SYSTEM DIFFERENTIAL PRESSURE AND SETPOINT.
 - CHILLER DIFFERENTIAL PRESSURE AND FLOW.
 - BYPASS VALVE POSITION.
 - PLANT EWT AND LWI.
 - CALCULATED TOTAL PLANT TONNAGE PRODUCTION.
- SYSTEM DIAGNOSTIC AND ALARM INDICATION: THE PACKAGED CHILLER MICROPROCESSOR SHALL DISPLAY LOCALLY ALL THE ALARM, MONITORING, AND OPERATION CONDITIONS AS DESCRIBED IN SPECIFICATIONS. IT SHALL ALSO SUPPLY TO THE BMS A COMMON BINARY STATUS FOR ANY OF THESE ALARM CONDITIONS.
- FREEZE PROTECTION: UPON A DROP IN OUTDOOR AIR TEMPERATURE TO 0F, ONE PRIMARY CHILLED WATER PUMP SHALL ENERGIZE, PUMP VARIABLE FREQUENCY DRIVE SHALL MODULATE TO MINIMUM SPEED, AND BYPASS VALVE SHALL OPEN FOR A PERIOD OF 2 MINUTES (ADJ.) EVERY 2 HOURS (ADJ.) FOR SUPPLEMENTARY FREEZE PROTECTION.
- HEAT TRACE: MONITOR HEAT TRACE ON EXTERIOR PIPING. ALARM BMS UPON FAILURE OF HEAT TRACE SYSTEM.

Date	Description
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07/10/2021

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05/18/2021

Project Name

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IMPROVEMENTS

Project Number

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Description

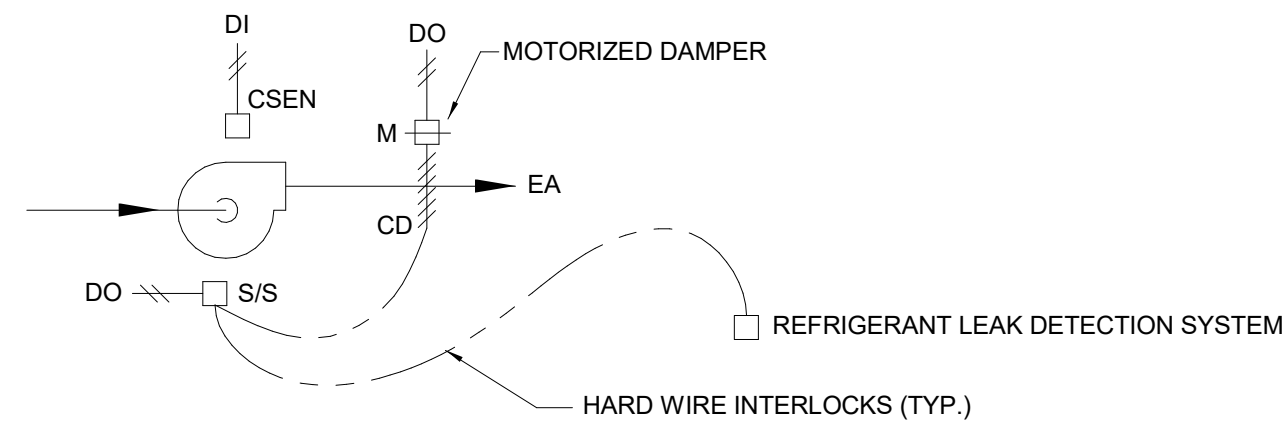
PROMENADE - MECHANICAL
CONTROLS

Scale

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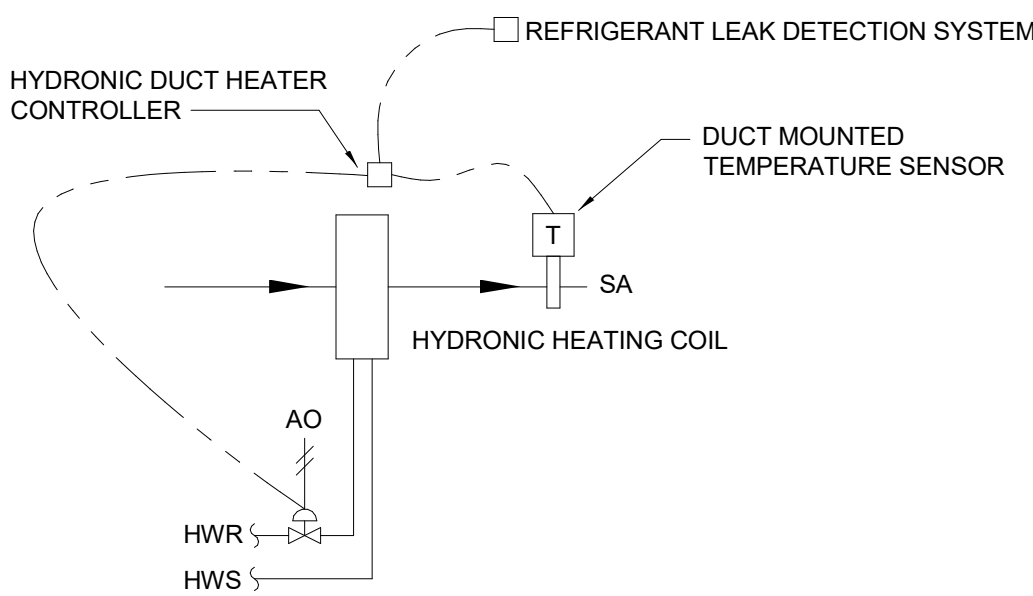
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ENERGY METER SCHEDULE/POINTS LIST													
SYSTEM: ENERGY METERING SYSTEM													
POINT DESCRIPTION	TYPE	LOAD CATEGORY	ENERGY DEMAND					ENERGY CONSUMPTION					REMARKS
			UNIT	HOURLY PEAK	DAILY PEAK	MONTHLY PEAK	ANNUAL PEAK	UNIT	HOURLY TOTAL	DAILY TOTAL	MONTHLY TOTAL	ANNUAL TOTAL	
BUILDING MAIN ELECTRICAL SERVICE METER	E	MAIN	KW	X	X	X	X	KWh	X	X	X	X	
PANEL L1N2 - LIGHTING	E	LTG	KW	X	X	X	X	KWh	X	X	X	X	
PLAZA BUILDING KITCHEN PODS - POD-1	E	PLUG	KW	X	X	X	X	KWh	X	X	X	X	DATA FOR EACH KITCHEN POD DERIVED VIA SINGLE CONNECTION TO KITCHEN POD METERING SYSTEM.
PLAZA BUILDING KITCHEN PODS - POD-2	E	PLUG	KW	X	X	X	X	KWh	X	X	X	X	DATA FOR EACH KITCHEN POD DERIVED VIA SINGLE CONNECTION TO KITCHEN POD METERING SYSTEM.
PLAZA BUILDING KITCHEN PODS - POD-3	E	PLUG	KW	X	X	X	X	KWh	X	X	X	X	DATA FOR EACH KITCHEN POD DERIVED VIA SINGLE CONNECTION TO KITCHEN POD METERING SYSTEM.
PLAZA BUILDING KITCHEN PODS - POD-4	E	PLUG	KW	X	X	X	X	KWh	X	X	X	X	DATA FOR EACH KITCHEN POD DERIVED VIA SINGLE CONNECTION TO KITCHEN POD METERING SYSTEM.
PLAZA BUILDING KITCHEN PODS - POD-5	E	PLUG	KW	X	X	X	X	KWh	X	X	X	X	DATA FOR EACH KITCHEN POD DERIVED VIA SINGLE CONNECTION TO KITCHEN POD METERING SYSTEM.
PLAZA BUILDING KITCHEN PODS - POD-6	E	PLUG	KW	X	X	X	X	KWh	X	X	X	X	DATA FOR EACH KITCHEN POD DERIVED VIA SINGLE CONNECTION TO KITCHEN POD METERING SYSTEM.
PANEL L1N1 - LIGHTING	E	LTG	KW	X	X	X	X	KWh	X	X	X	X	OBTAIN PANEL LOAD BY DEDUCTING PANEL R3N1 METERED USAGE FROM PANEL L1N1 METERED USAGE.
PANEL R3N1 - PLUG LOADS	E	PLUG	KW	X	X	X	X	KWh	X	X	X	X	
CHILLER ELECTRICITY METER	E	MECH	KW	X	X	X	X	KWh	X	X	X	X	
PANEL R1N1 - PLUG LOADS	E	PLUG	KW	X	X	X	X	KWh	X	X	X	X	
PANEL R1N3 - PLUG LOADS	E	PLUG	KW	X	X	X	X	KWh	X	X	X	X	
PANEL M1N3 - MECHANICAL LOADS	E	MECH	KW	X	X	X	X	KWh	X	X	X	X	OBTAIN PANEL LOAD BY DEDUCTING ZAMBONI ROOM METERED USAGE FROM PANEL M1N3 METERED USAGE.
ZAMBONI ROOM - MECHANICAL LOADS	E	MECH	KW	X	X	X	X	KWh	X	X	X	X	
PANEL M1N2 - MECHANICAL LOADS	E	MECH	KW	X	X	X	X	KWh	X	X	X	X	OBTAIN PANEL LOAD BY DEDUCTING PANEL R1N4 METERED USAGE FROM PANEL M1N2 METERED USAGE.
PANEL R1N4 - PLUG LOADS	E	PLUG	KW	X	X	X	X	KWh	X	X	X	X	
PANEL M1N1 - MECHANICAL LOADS	E	MECH	KW	X	X	X	X	KWh	X	X	X	X	
ICE PLANT ELECTRICITY METER	E	MECH	KW	X	X	X	X	KWh	X	X	X	X	
BUILDING LIGHTING	VIR		KW	X	X	X	X	KWh	X	X	X	X	OBTAIN BY ADDING ALL BUILDING LTG METERS
BUILDING HVAC/PLUMBING	VIR		KW	X	X	X	X	KWh	X	X	X	X	OBTAIN BY ADDING ALL BUILDING MECH METERS. DO NOT DOUBLE COUNT SUB-METERS.
BUILDING PLUG LOAD	VIR		KW	X	X	X	X	KWh	X	X	X	X	OBTAIN BY ADDING ALL BUILDING PLUG LOAD METERS. DO NOT DOUBLE COUNT SUB-METERS.
CHILLER PLANT BTU METER	BTU	MECH	TONS	X	X	X	X	TON-HRS	X	X	X	X	
CHILLER PLANT EFFICIENCY	VIR		KW/TON										SEE NOTE 10 BELOW.
PROMENADE BUILDING MAIN NATURAL GAS SERVICE METER	NG	MAIN	TH/H	X	X	X	X	THERMS	X	X	X	X	
NATURAL GAS SERVICE TO PLAZA BUILDING KITCHENS	NG	MECH	TH/H	X	X	X	X	THERMS	X	X	X	X	
NATURAL GAS SERVICE TO PLAZA FIRE PITS	NG	MECH	TH/H	X	X	X	X	THERMS	X	X	X	X	
MAIN DOMESTIC WATER SERVICE	DW	MAIN	GAL/H	X	X	X	X	GAL	X	X	X	X	
ICE PLANT PROCESS WATER	DW	PLB	GAL/H	X	X	X	X	GAL	X	X	X	X	
IRRIGATION WATER	DW	PLB	GAL/H	X	X	X	X	GAL	X	X	X	X	
GENERAL NOTES:													
1. TYPE CODES:													
E: ELECTRICITY													
NG: NATURAL GAS													
DW: DOMESTIC WATER													
BTU: BTU METER													
VIR: VIRTUAL METER OBTAINED VIA ADDITION OR SUBTRACTION													
2. LOAD CATEGORIES:													
MAIN: MAIN BUILDING METER													
MECH: MECHANICAL													
LTG: LIGHTING													
PLB: PLUMBING													
PLUG: PLUG LOAD													
PROC: PROCESS													
3. ALL METERS SHALL RECORD AT INTERVALS OF ONE HOUR OR LESS.													
4. ALL METERS SHALL REPORT BOTH DEMAND (KW OR BTU/H) AND CONSUMPTION (KWh OR THERMS) UNLESS OTHERWISE NOTED.													
5. MAIN ELECTRICAL SERVICE ENTRANCE METERS SHALL RECORD POWER FACTOR AND REPORT HOURLY. RECORD HOURLY VALUES FOR A MINIMUM OF THREE YEARS.													
6. ALL METERS INDICATED SHALL HAVE DIRECT CONNECTION TO THE BMS VIA SERIAL COMMUNICATION UNLESS OTHERWISE NOTED.													
7. RECORDED DATA FOR EACH METER SHALL INCLUDE HOURLY, DAILY, MONTHLY, AND ANNUAL PEAK DEMAND AND TOTAL CONSUMPTION. INFORMATION FOR EACH METER POINT INDICATED SHALL BE REPORTED AT THE BMS OPERATOR STATION IN CALENDAR FORMAT. DATA SHALL BE STORED FOR A MINIMUM OF THREE YEARS.													
8. METERED DATA SHALL BE REMOTELY ACCESSIBLE THROUGH THE BMS.													
9. METERING SYSTEM SHALL BE EXPANDABLE TO INCLUDE ADDITIONAL METERS FOR SHELL AREAS INDICATED ON ARCHITECTURAL DRAWINGS.													
10. REPORT HOURLY CHILLER PLANT KW/TON USING 1 HOUR MEASUREMENT OF TOTAL ELECTRICITY CONSUMED (KWh) DIVIDED BY SAME 1 HOUR MEASUREMENT OF TOTAL COOLING ENERGY PRODUCED (TON-HRS). REPORT MONTHLY MAXIMUM AND MINIMUM CHILLER KW/TON. DATA SHALL BE STORED FOR A MINIMUM OF THREE YEARS.													
11. WHERE METERED CATEGORY VIRTUAL POINTS ARE INDICATED, DO NOT DOUBLE COUNT SUB-METERS. FOR METERS IN SERIES, COUNT ONLY THE UPSTREAM METER IN THE CATEGORY TOTAL.													



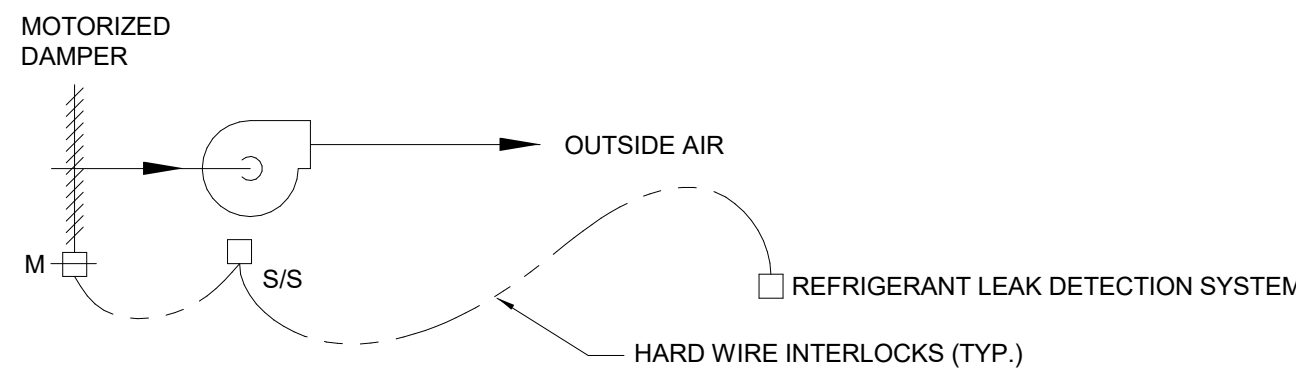
A ICE PLANT EXHAUST FAN CONTROL
NONE

- A. FAN SHALL BE INTERLOCKED WITH SUPPLY FAN SERVING SAME AREA. FAN TO RUN CONTINUOUSLY AT A LOW SPEED OF 700CFM. UPON REFRIGERANT LEAK DETECTION SYSTEM ACTIVATION, MODULATE FAN TO HIGH SPEED OF 2500CFM.



B HYDRONIC REHEAT COIL CONTROL
NONE

- A. INTERLOCK HYDRONIC DUCT HEATER WITH VENTILATION SUPPLY FAN SERVING SAME AREA. MODULATE CONTROL VALVE TO MAINTAIN VENTILATION SUPPLY AIR TEMPERATURE OF 65F (ADJ.) CONTINUOUSLY.



C ICE PLANT SUPPLY FAN VENTILATION CONTROL
NONE

- A. FAN SHALL BE INTERLOCKED WITH EXHAUST FAN SERVING SAME AREA. FAN TO RUN CONTINUOUSLY AT A LOW SPEED OF 700CFM. UPON REFRIGERANT LEAK DETECTION SYSTEM ACTIVATION, MODULATE FAN TO HIGH SPEED OF 2500CFM.

Date	Description
2021.05.19	BP3: PROMENADE - ISSUE FOR PERMIT

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Record Set
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07/10/2021

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IMPROVEMENTS

Project Number

003.7835.000

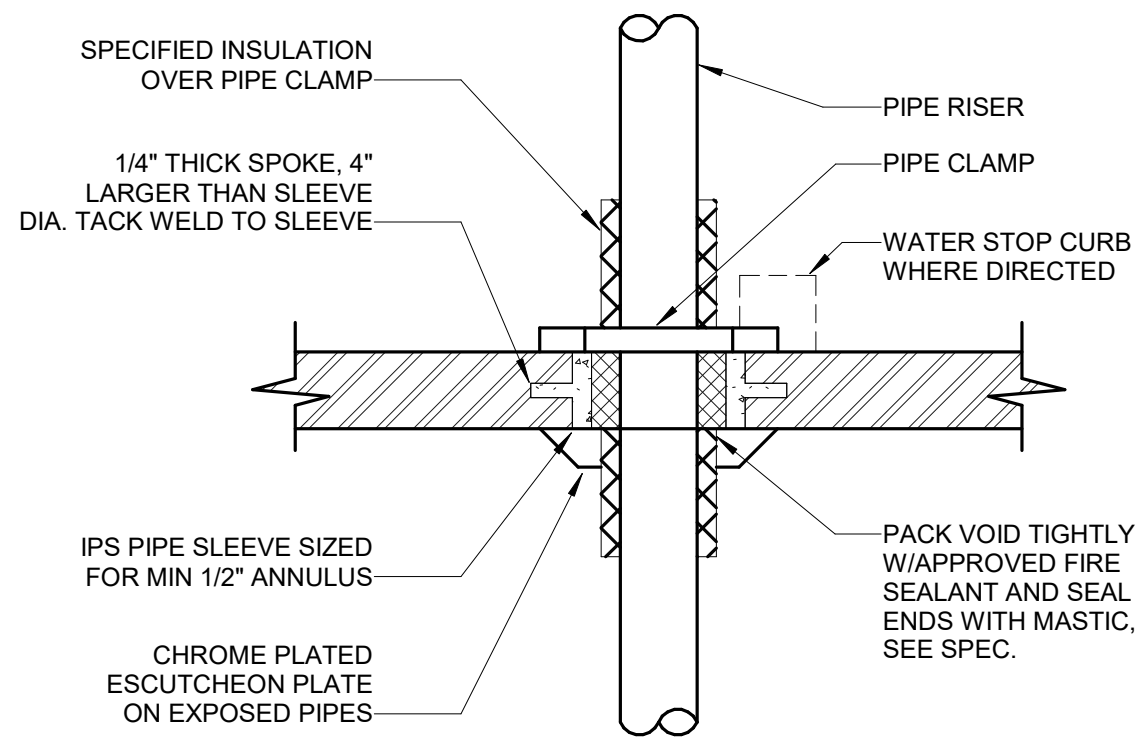
Description

PROMENADE - MECHANICAL
CONTROLS

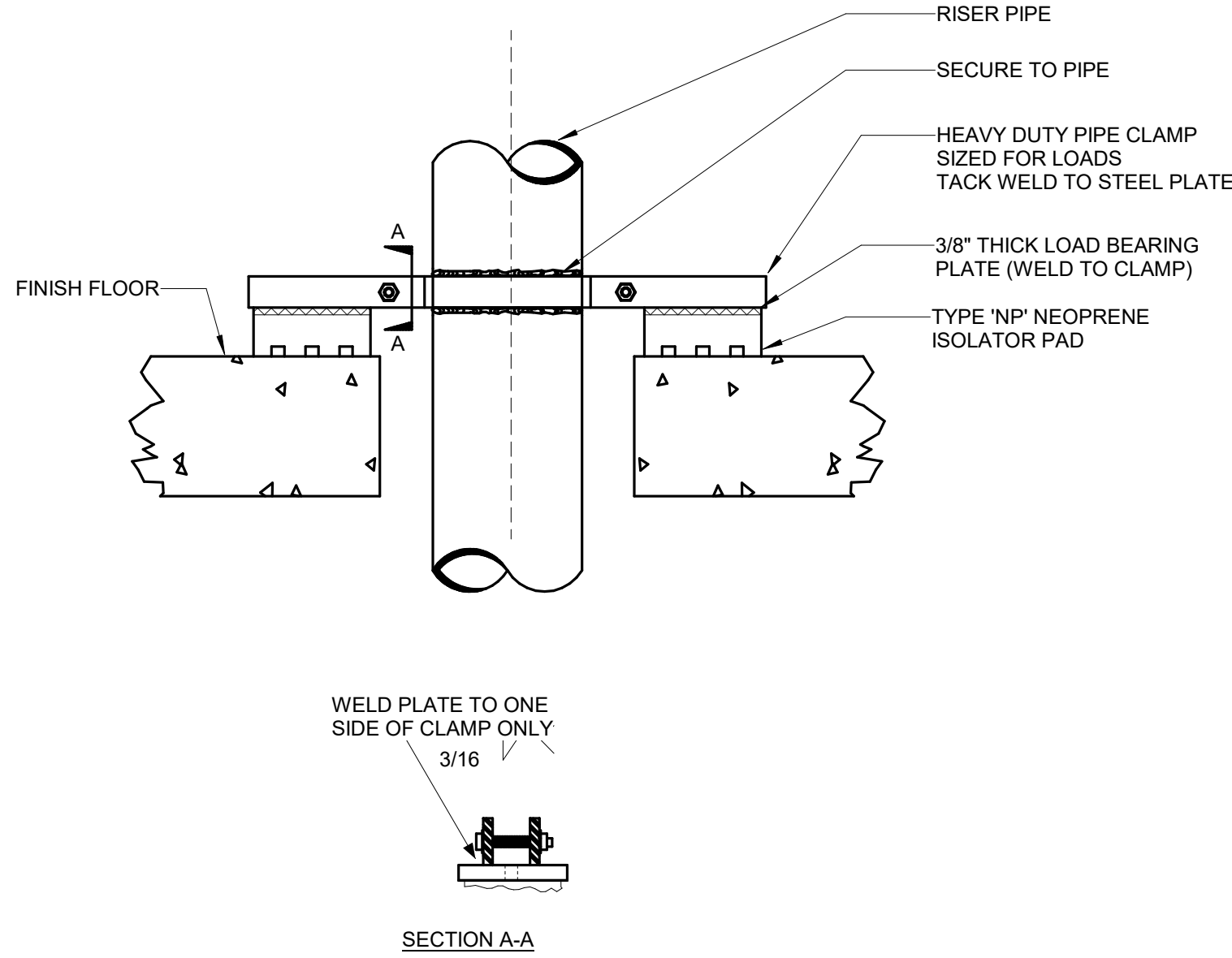
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NOT TO SCALE

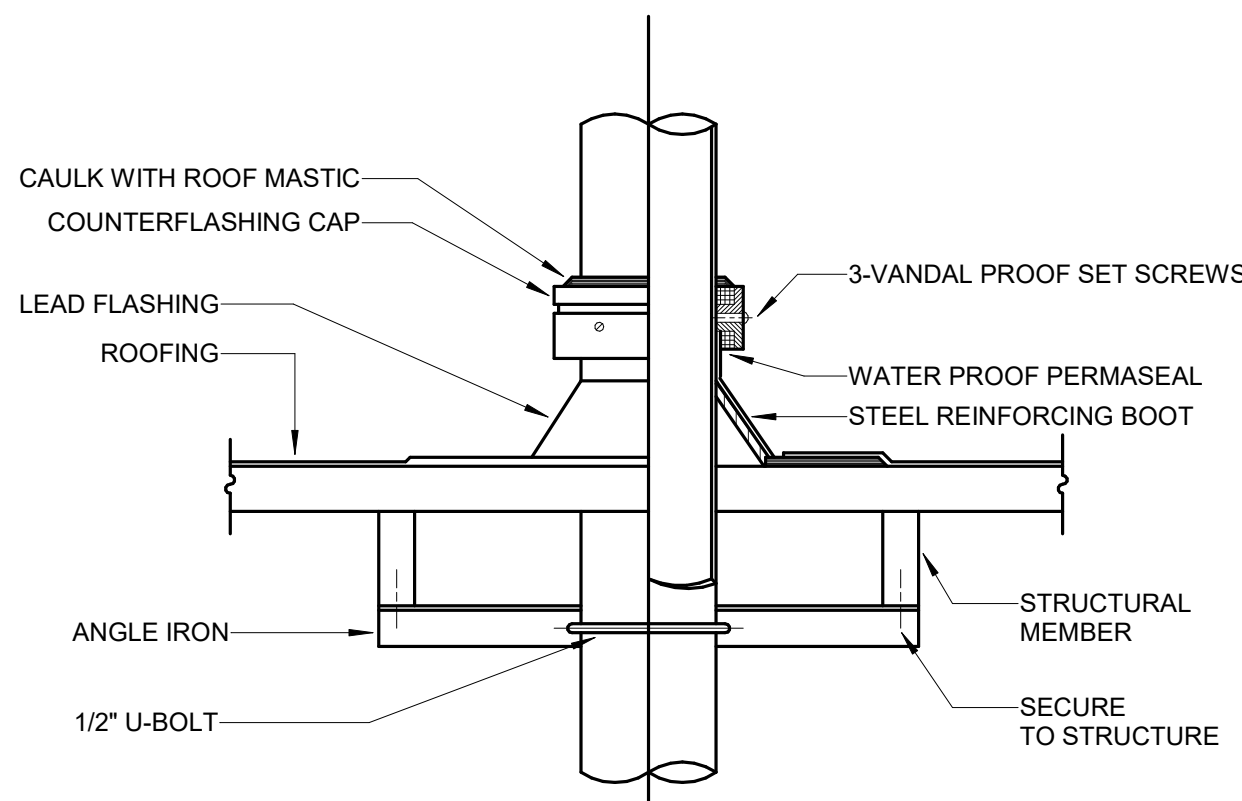
1A-M7.004



8 PIPE THROUGH FLOOR SLAB DETAIL
NO SCALE

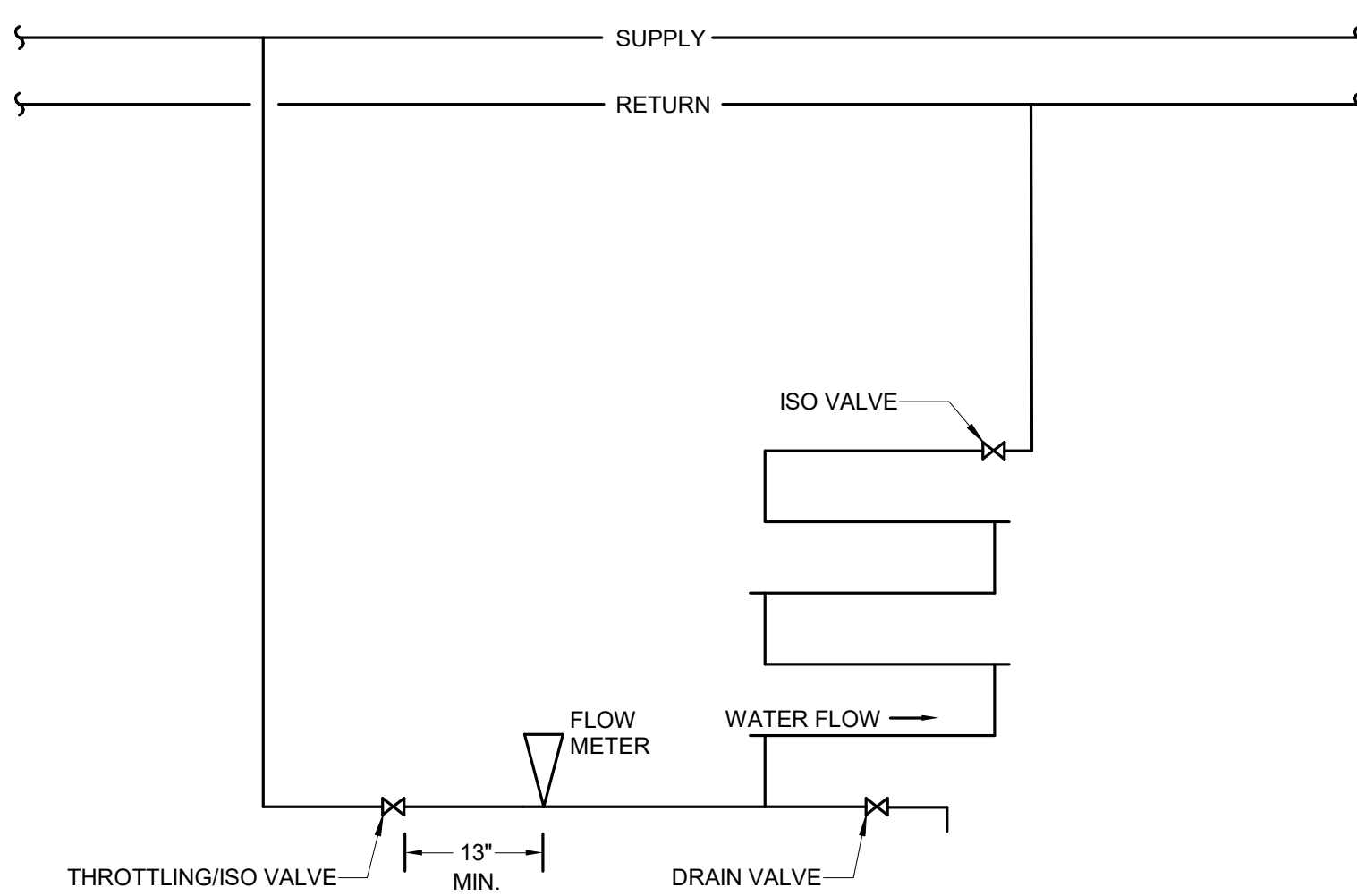


9 RISER ISOLATION SUPPORT
NO SCALE

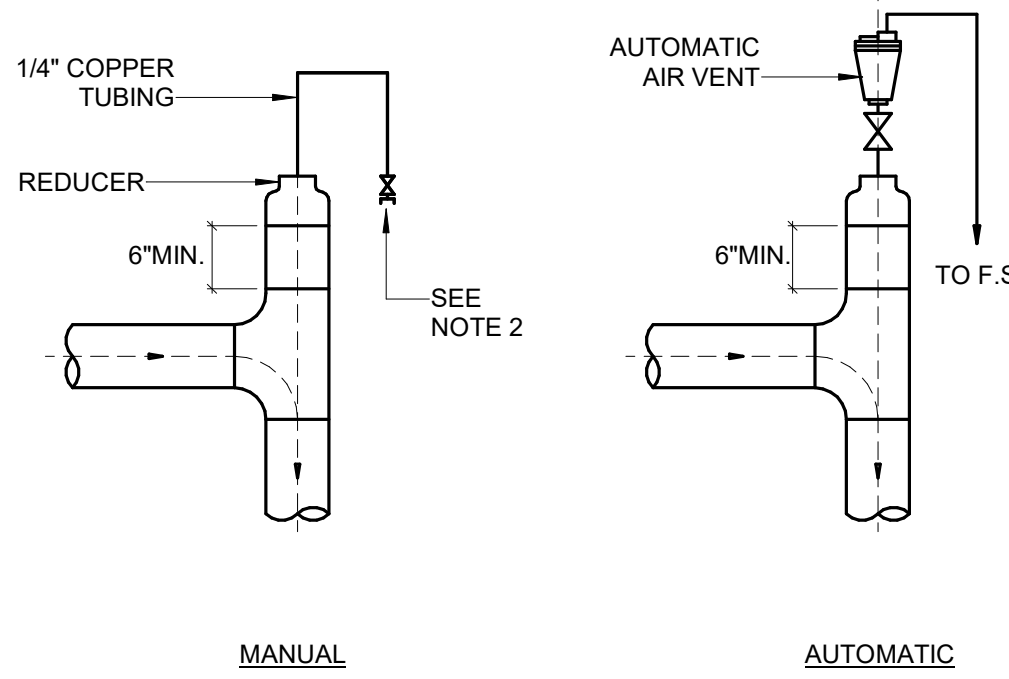


NOTES:
1. OMIT ANGLE IRON AND 1/2\"/>

10 PIPE THROUGH ROOF
NO SCALE



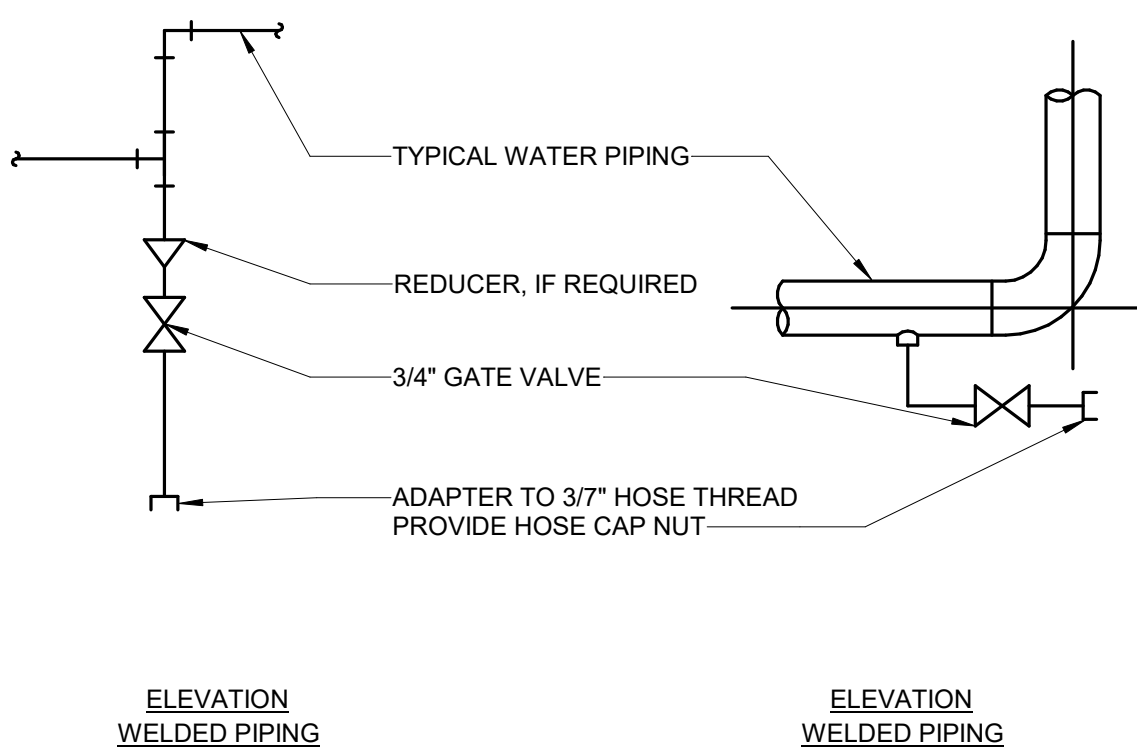
11 CORROSION COUPON RACK
NO SCALE



NOTE:

1. INSTALL MANUAL AIR VENT AT HIGH POINTS WHERE FLOW CHANGES DIRECTION. INSTALL AUTOMATIC AIR VENT TO PIPING WHICH IS INSTALLED IN EXPOSED AREA INCLUDING FAN ROOM AND MECHANICAL ROOM.
2. INSTALL HOSE VALVE ABOVE CEILING IN AN ACCESSIBLE LOCATION.
3. WELDED PIPE FITTING SHOWN. SCREWED FITTING SIMILAR.

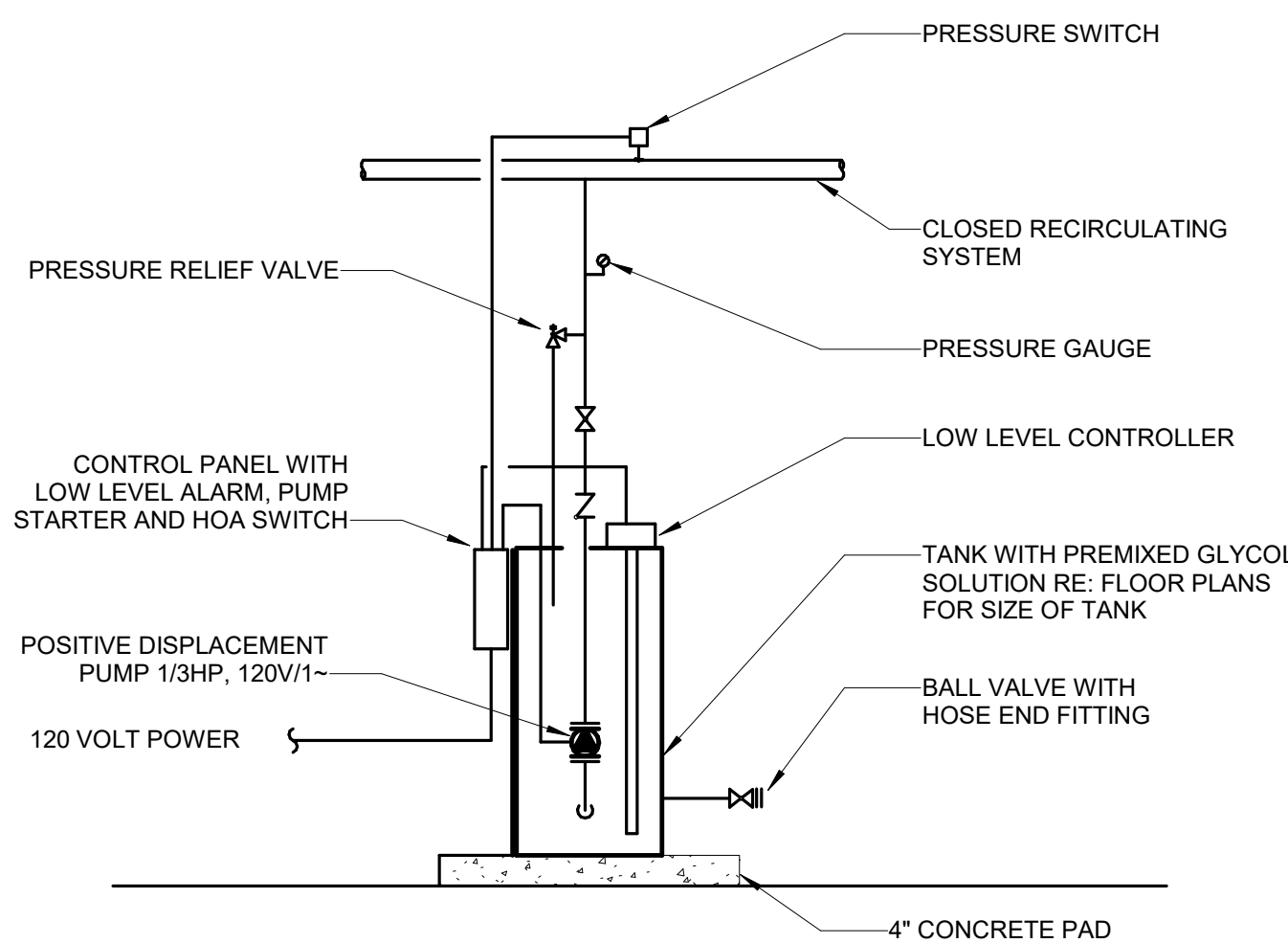
4 AIR VENT DETAIL
NO SCALE



NOTES:

1. PROVIDE DRAIN VALVES AT LOW POINTS OF WATER SYSTEM.
2. WHERE SCALE POCKETS ARE SHOWN ON PIPE RISER DIAGRAMS AND/OR PLANS LOCATE DRAIN AT BOTTOM OF SCALE POCKET.

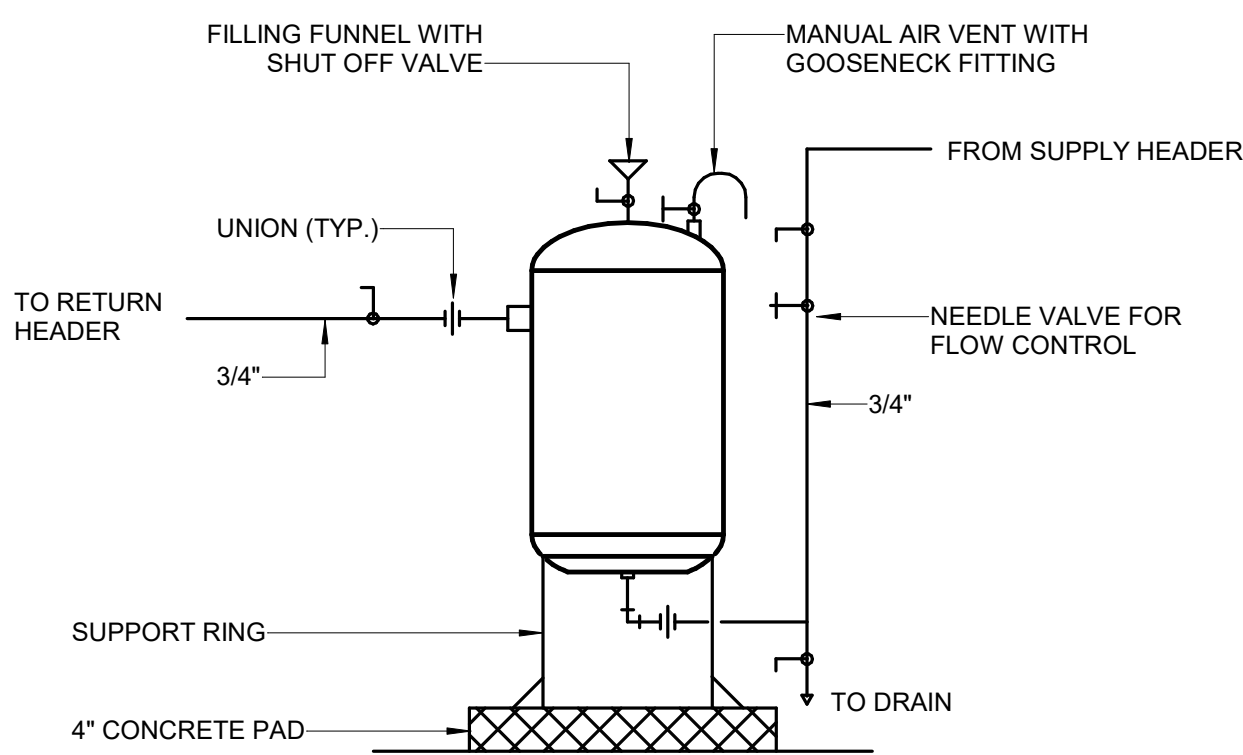
5 DRAIN VALVE CONNECTION DETAIL
NO SCALE



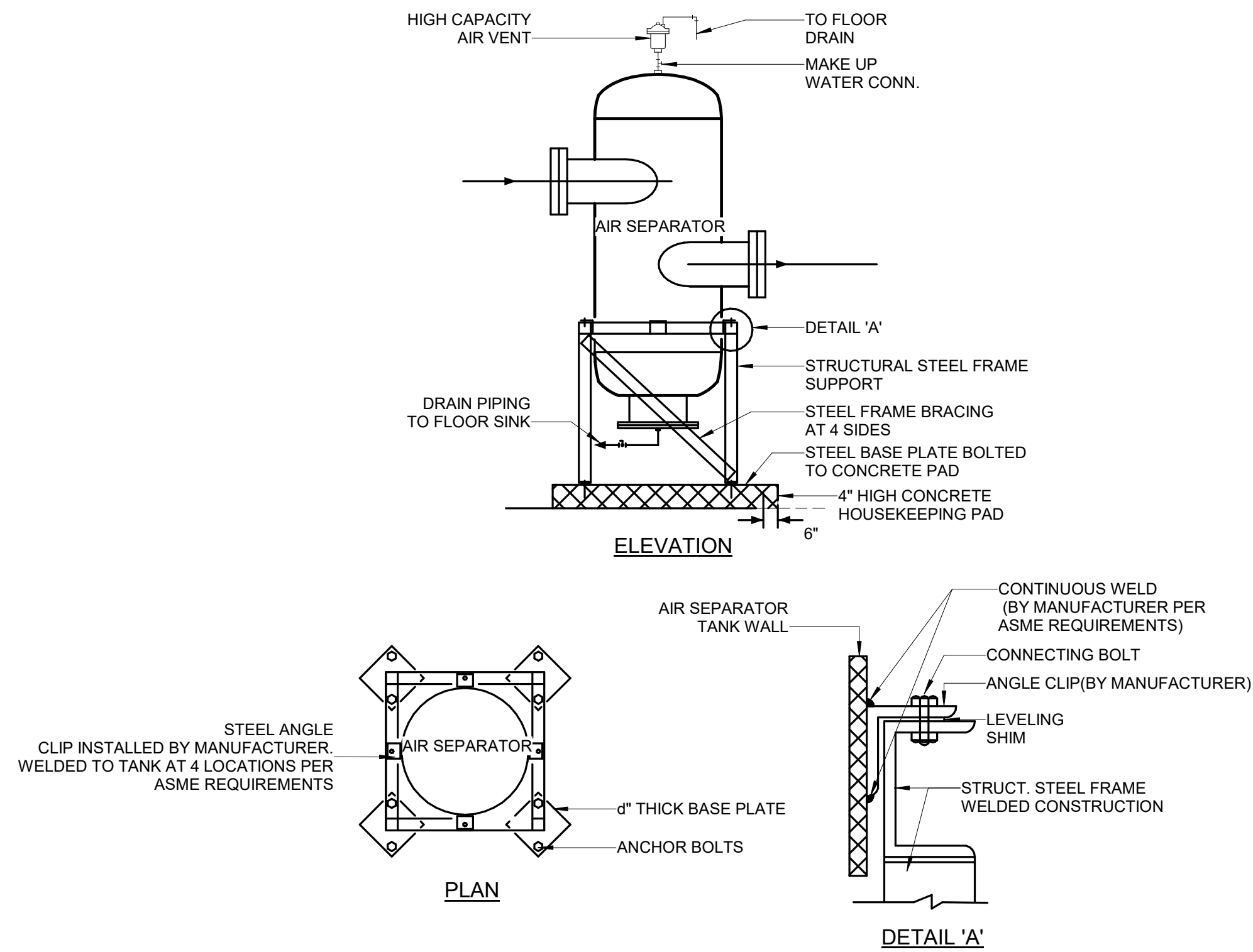
NOTE:

1. GLYCOL FEEDER SHALL BE A PACKAGED SYSTEM PROVIDED BY THE WATER TREATMENT SUPPLIER, H.O.H OR EQUIVALENT.

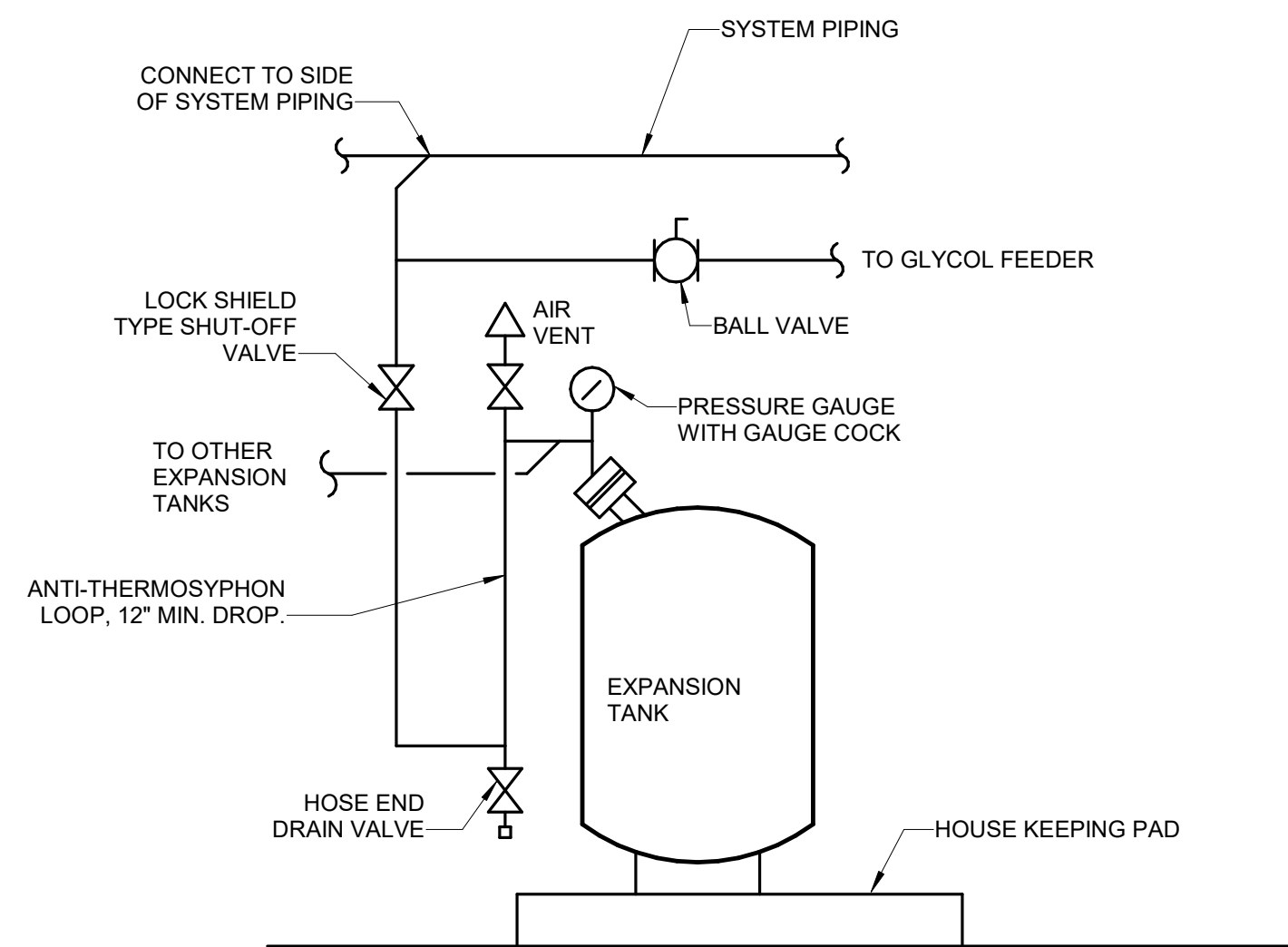
6 GLYCOL FEED ASSEMBLY DETAIL
NO SCALE



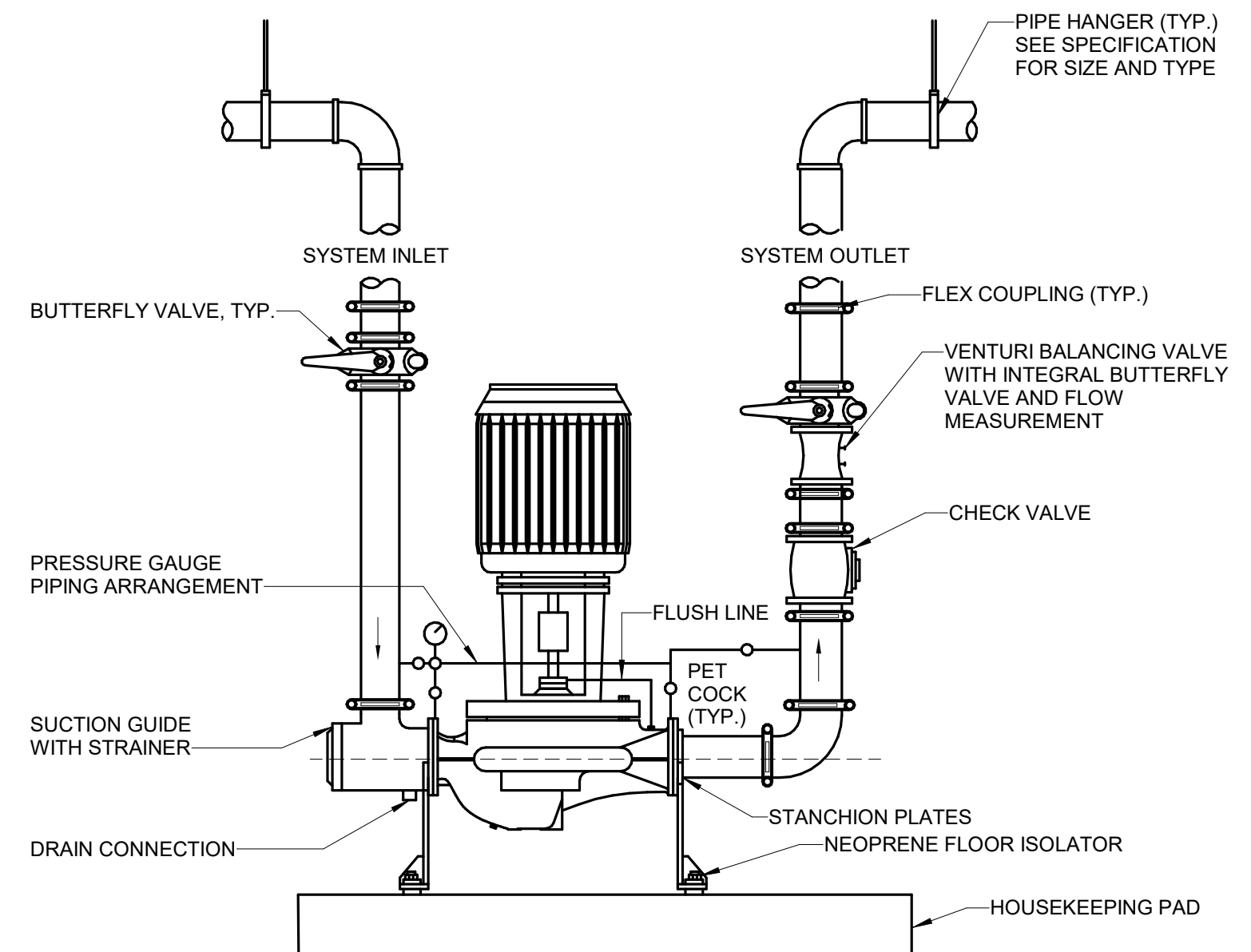
7 CHEMICAL POT FEEDER
NO SCALE



1 AIR SEPARATOR MOUNTING
NO SCALE



2 EXPANSION TANK DETAIL
NO SCALE



3 INLINE PUMP DETAIL - 5HP AND LARGER
NO SCALE

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Date	Description
2021.05.19	BP3: PROMENADE - ISSUE FOR PERMIT

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05/18/2021

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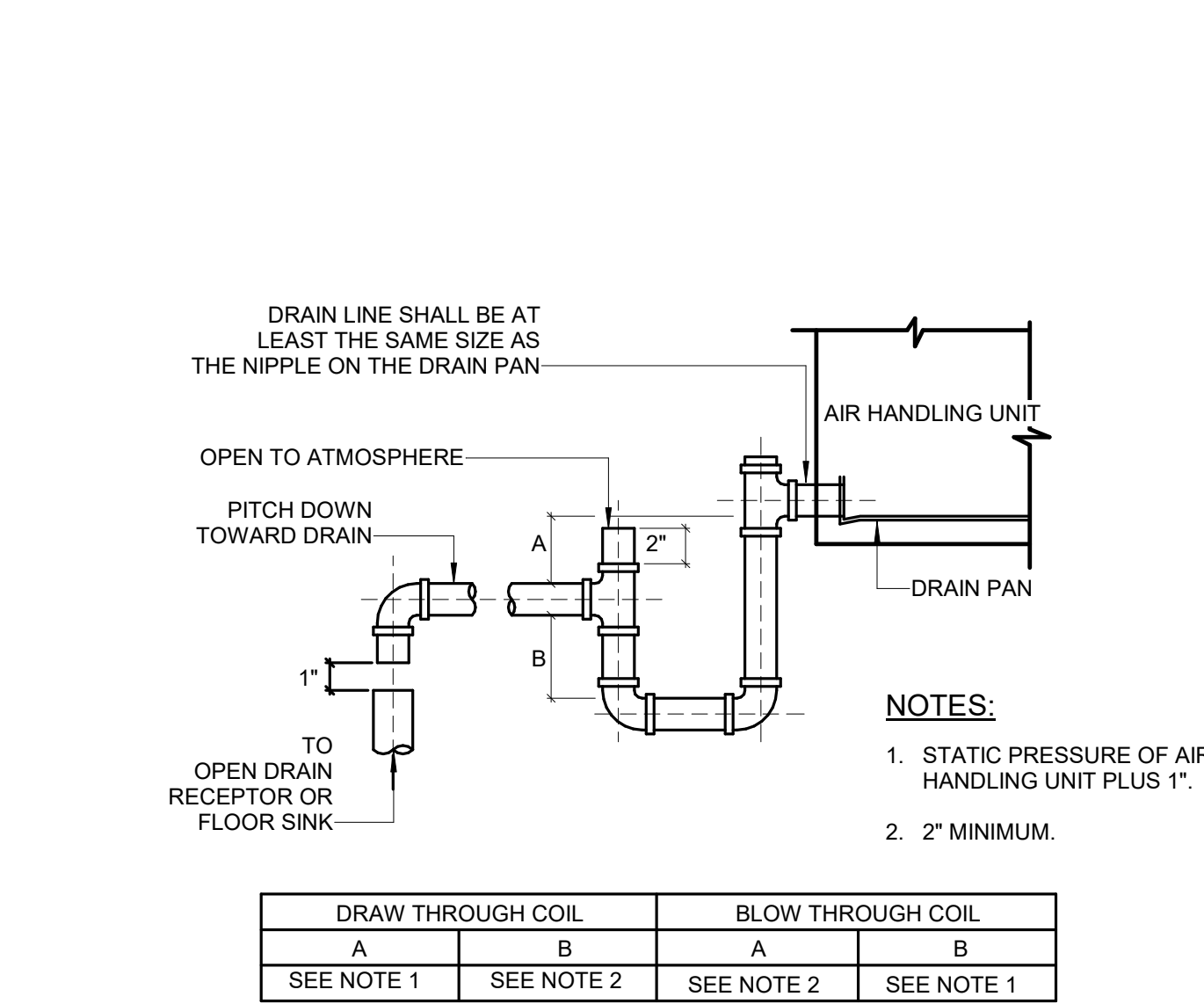
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PROMENADE - MECHANICAL DETAILS

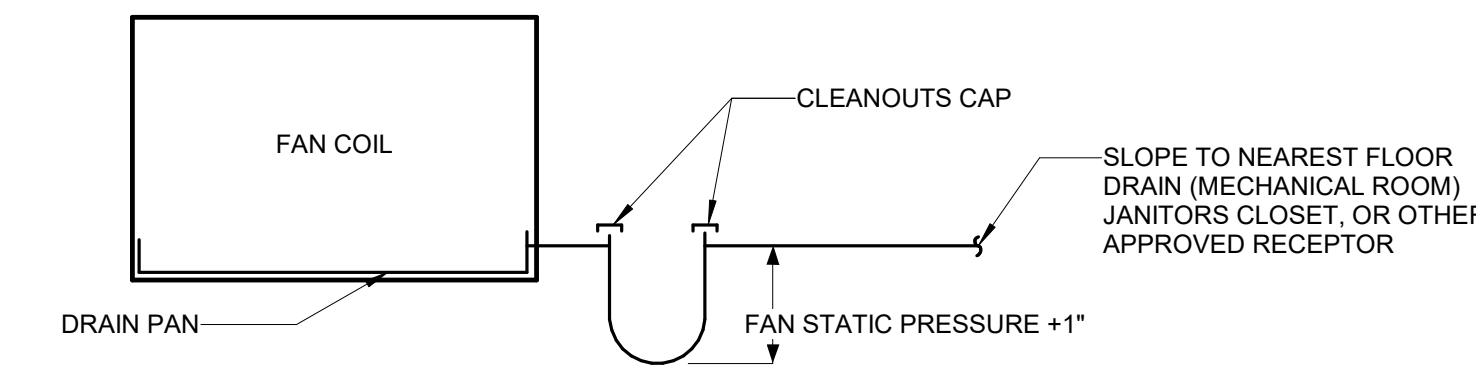
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NO SCALE

1A-M8.000

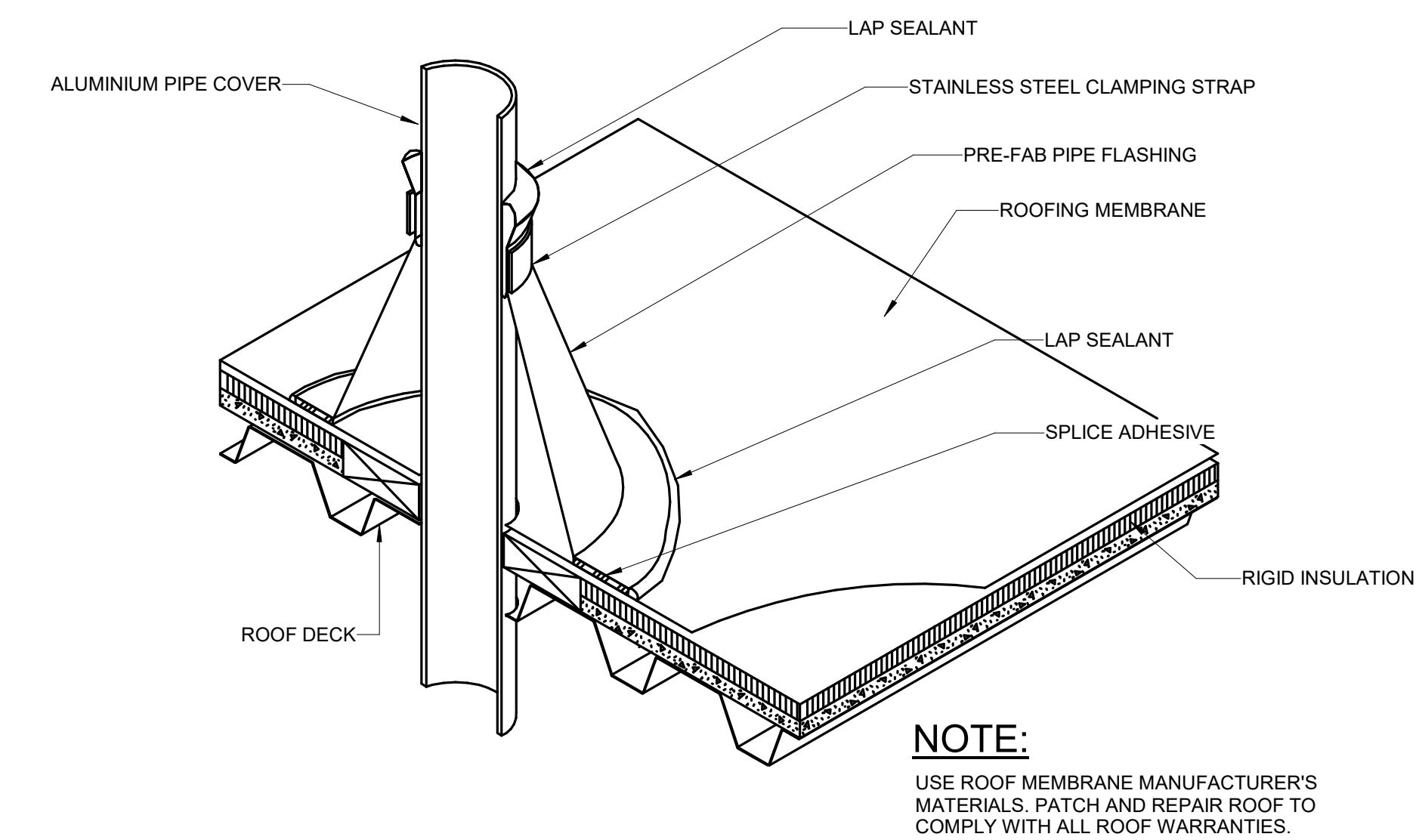


8 DRAIN AND TRAP FROM AIR HANDLING UNIT
NO SCALE

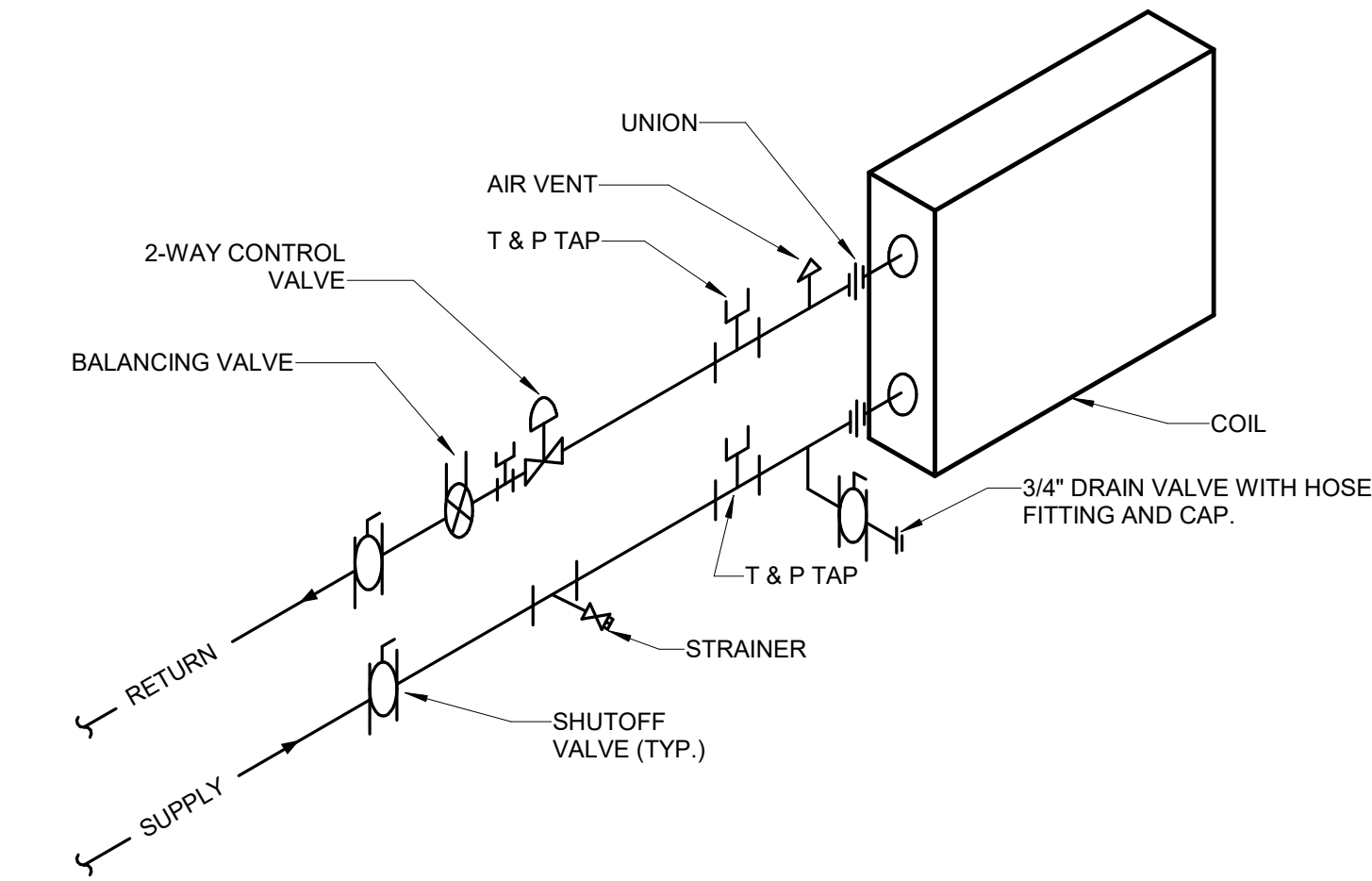


NOTE:
1. INSULATE CONDENSATE DRAIN WHEN ABOVE CEILINGS.

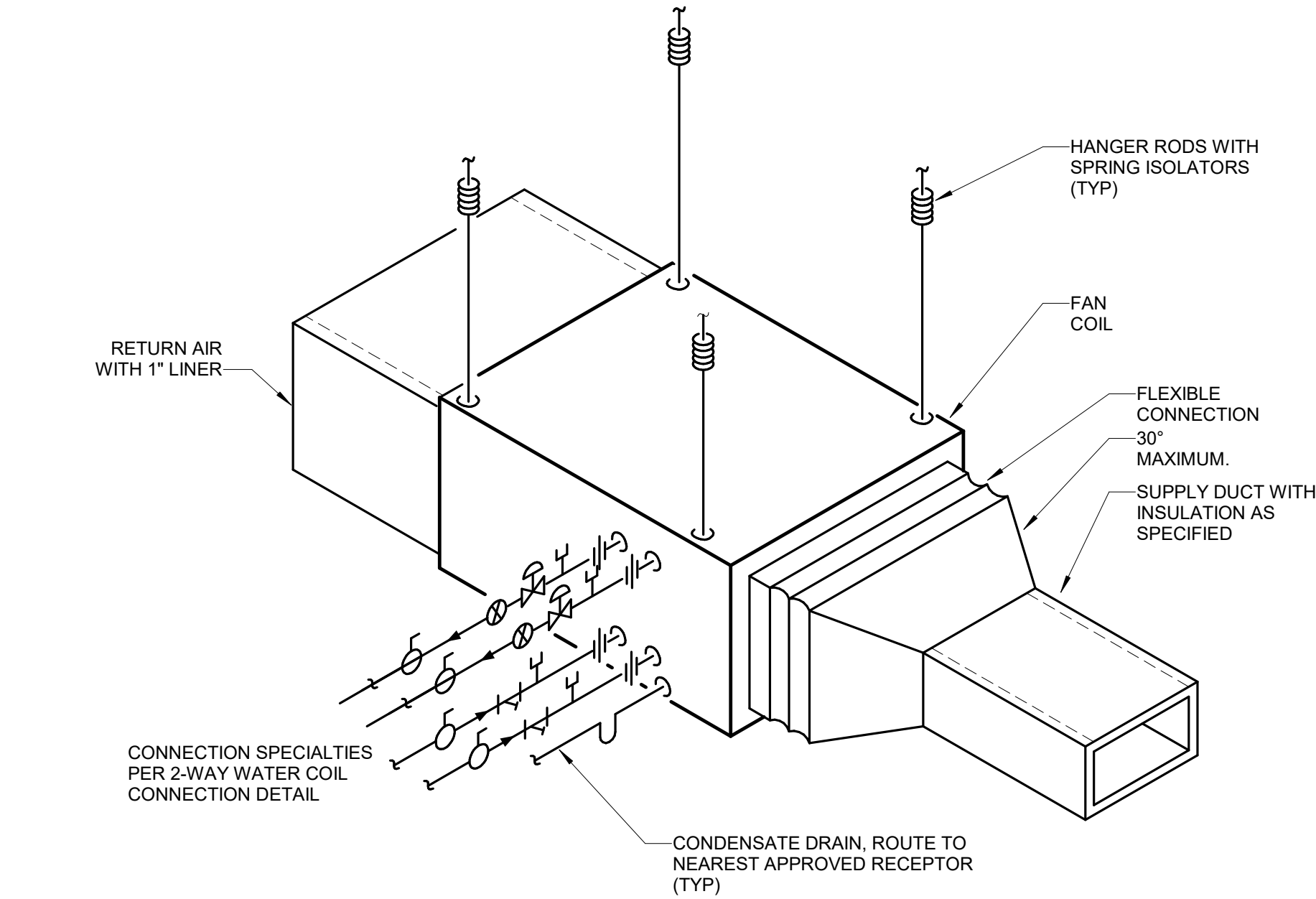
9 FAN COIL UNIT CONDENSATE DRAIN DETAIL
NO SCALE



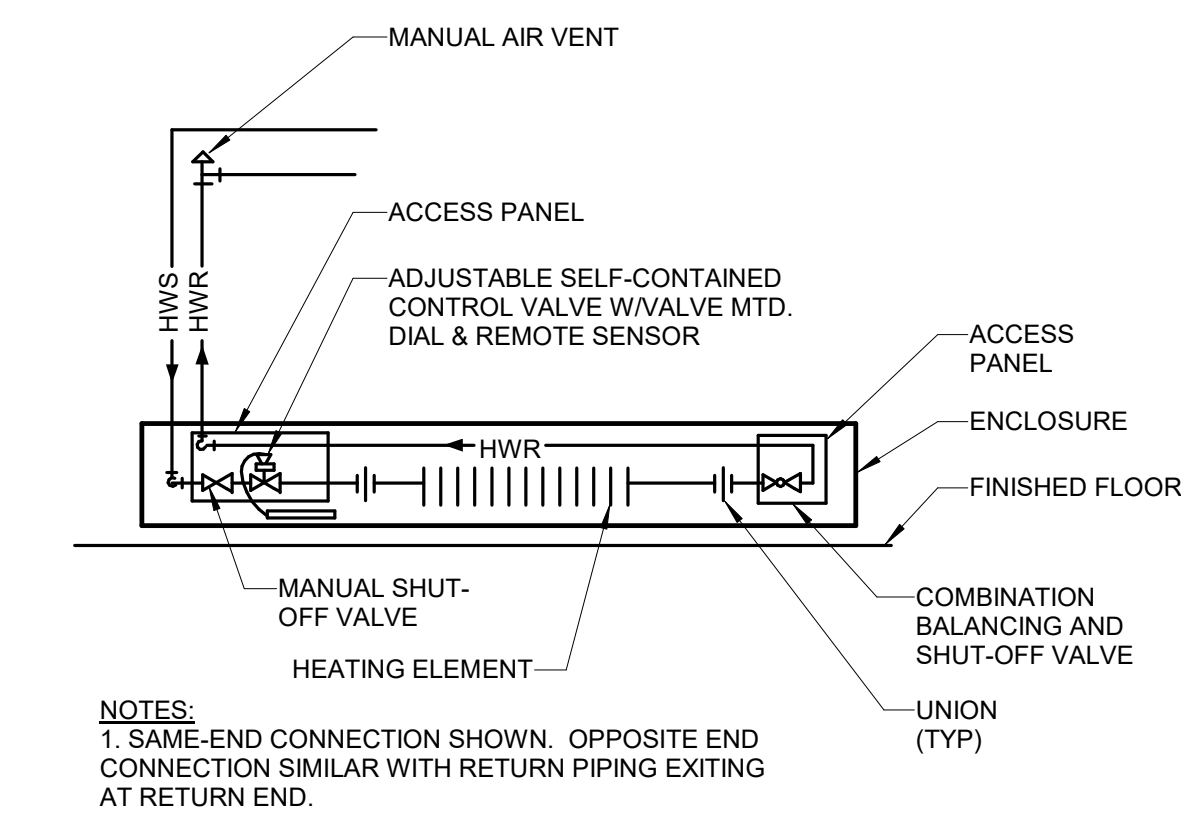
10 REFRIGERANT PIPING COVER PENETRATION
NO SCALE



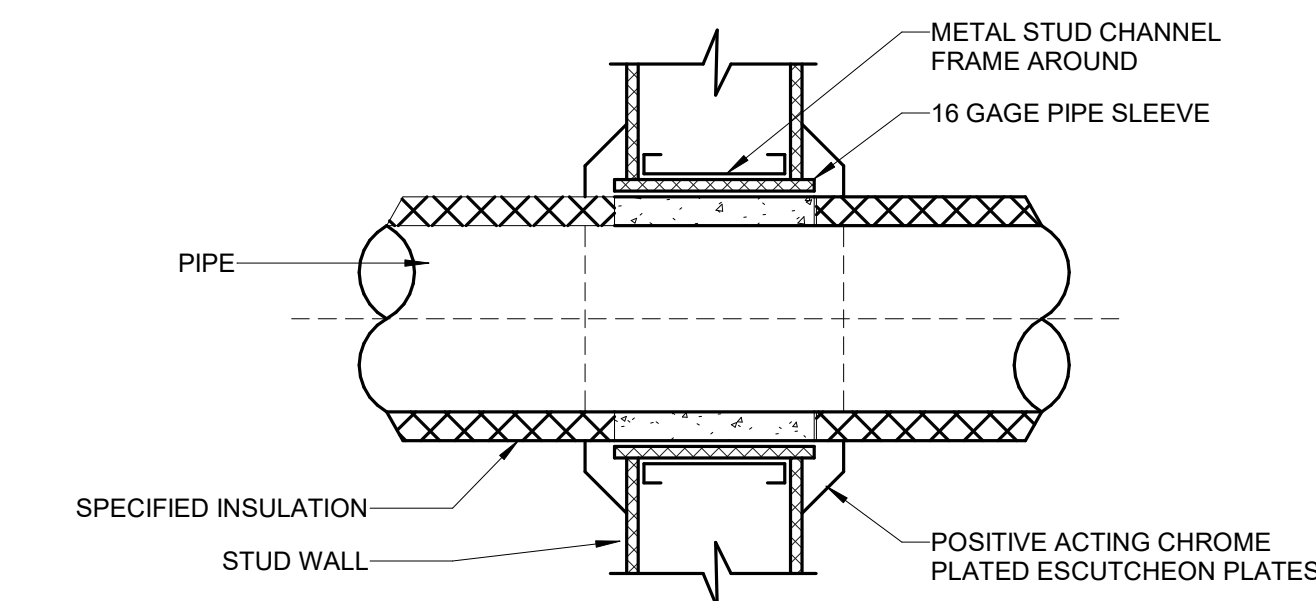
4 TYPICAL WATER COIL CONNECTION DETAIL (2 WAY CONTROL)
NO SCALE



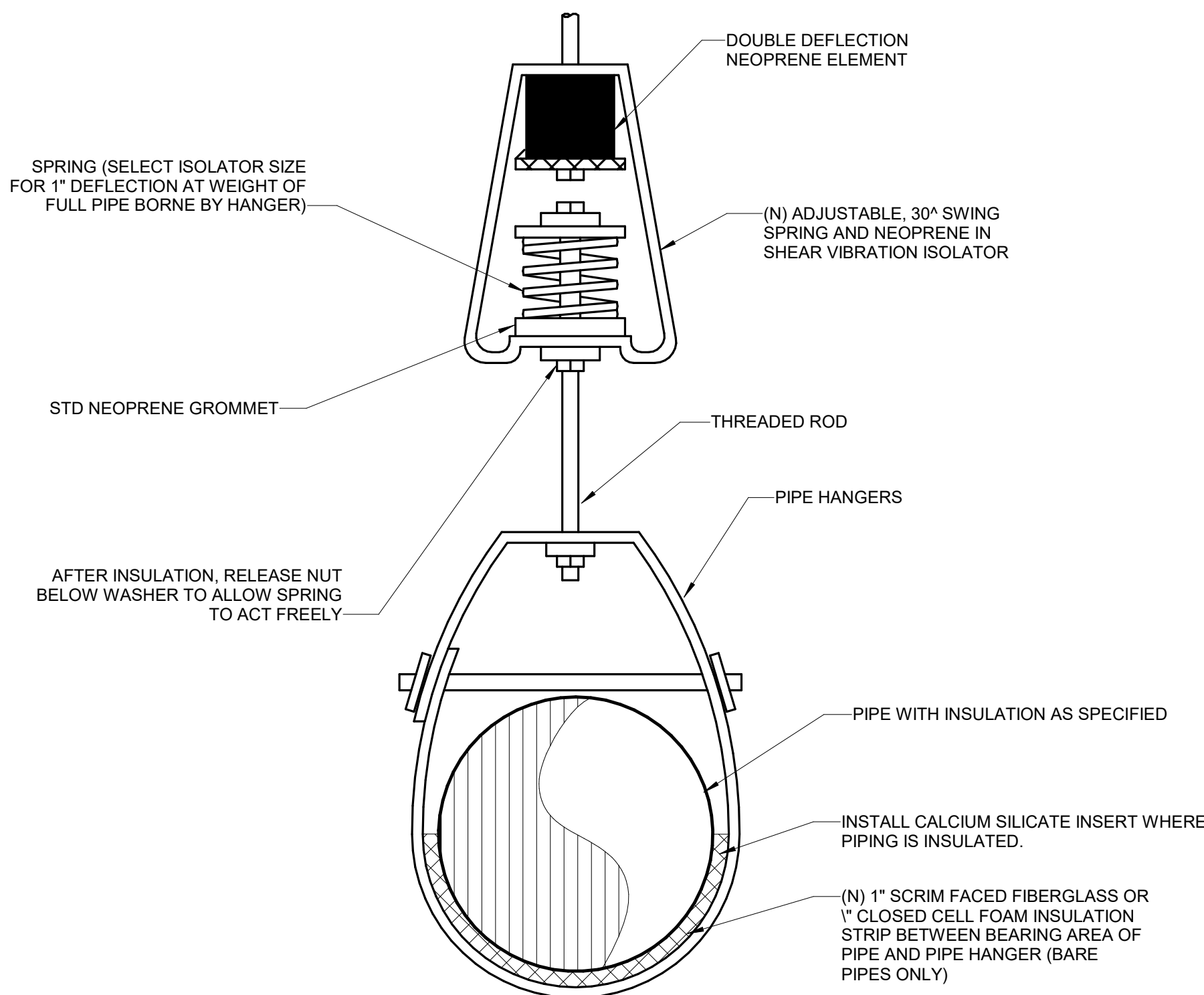
5 FAN COIL DETAIL
NO SCALE



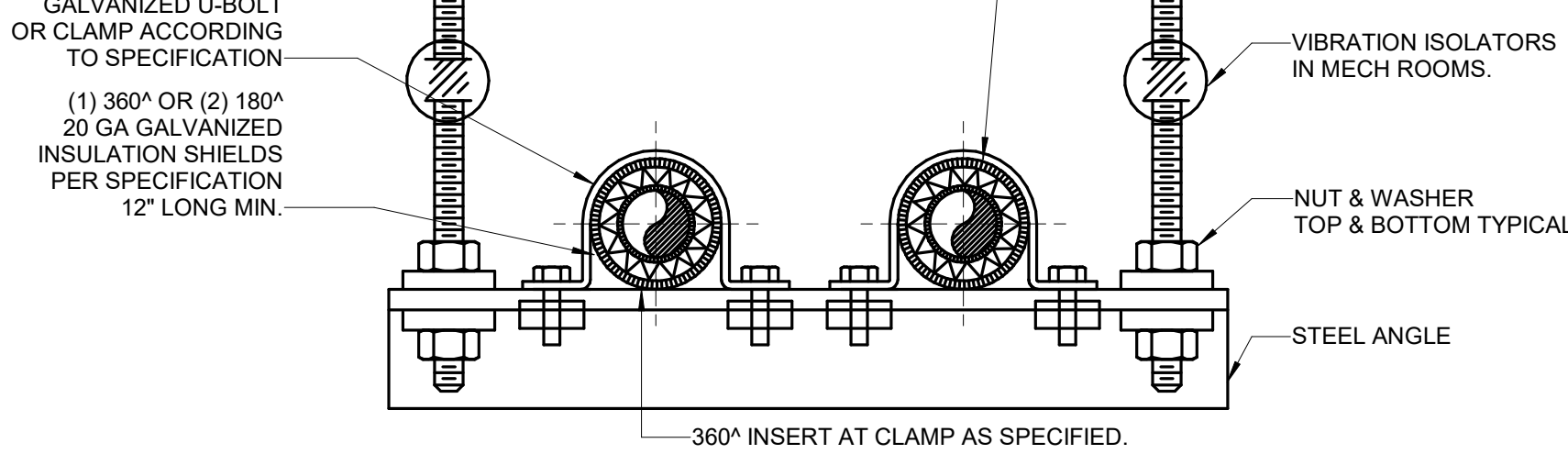
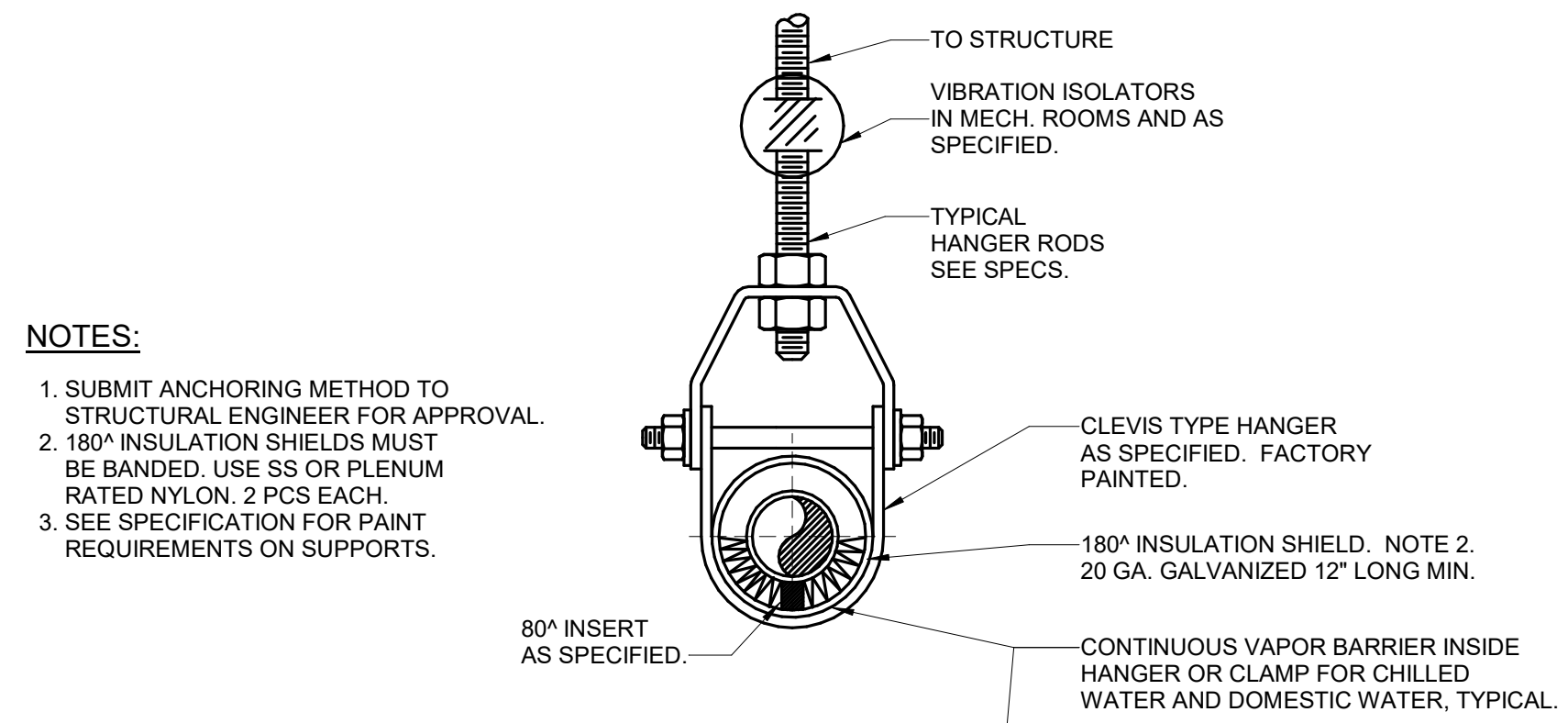
6 HOT WATER BASEBOARD DETAIL
NO SCALE



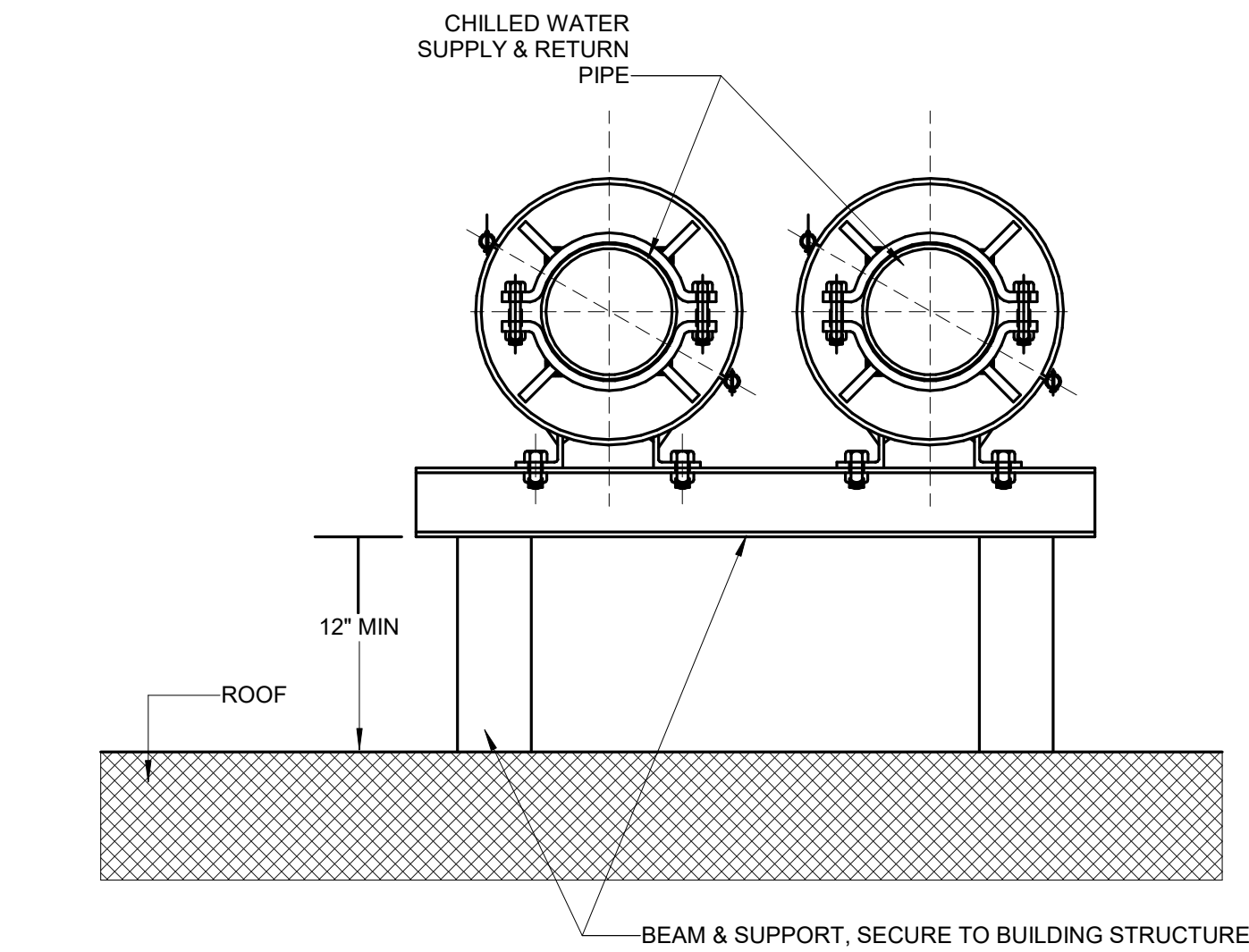
7 PIPE THROUGH STUD WALL DETAIL
NO SCALE



1 VIBRATION ISOLATION HANGER DETAIL
NO SCALE



2 TYPICAL PIPE HANGER DETAIL
NO SCALE



3 ROOF PIPE SUPPORT
1/8" = 1'-0"

Date	Description
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Project Number

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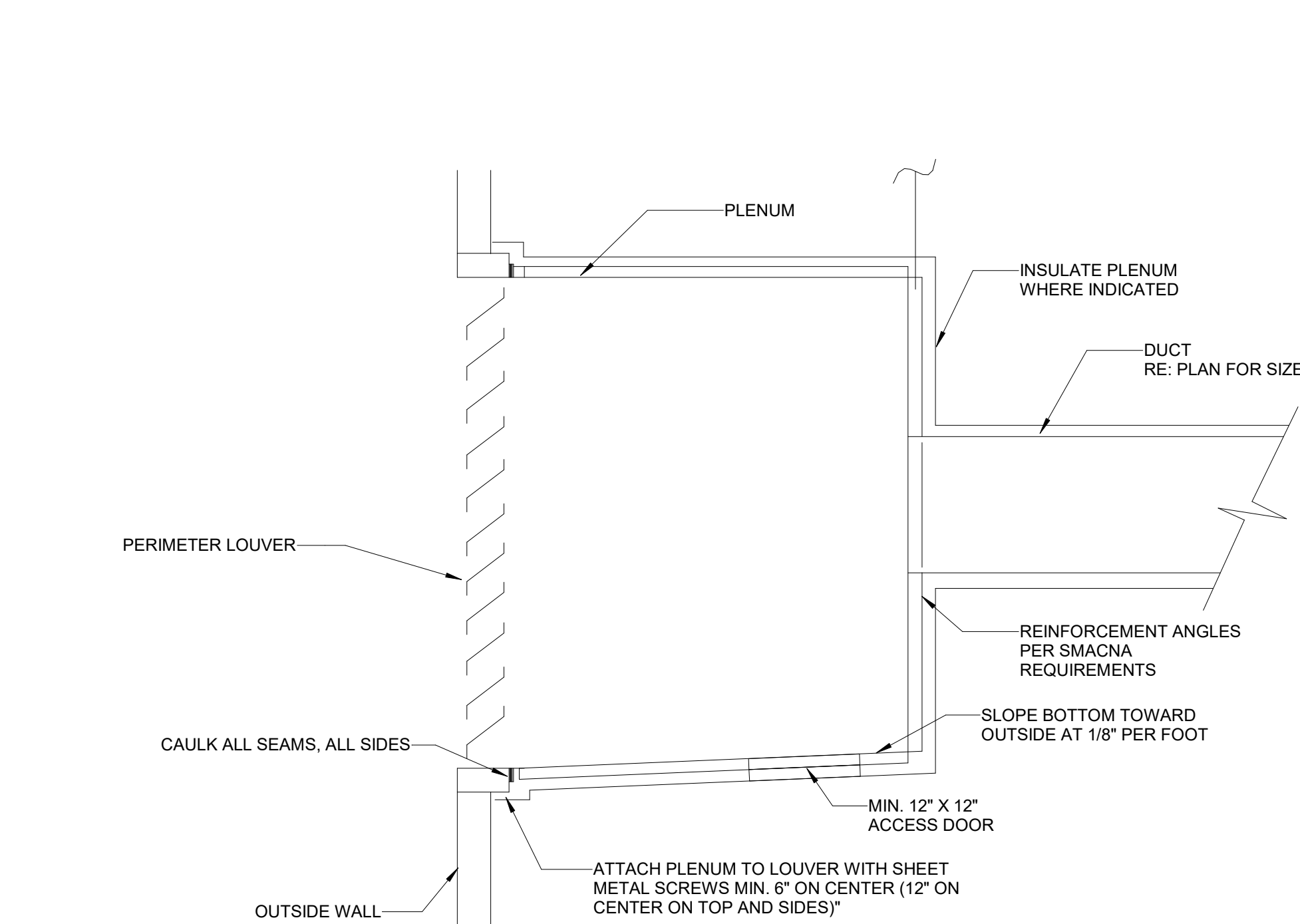
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PROMENADE - MECHANICAL DETAILS

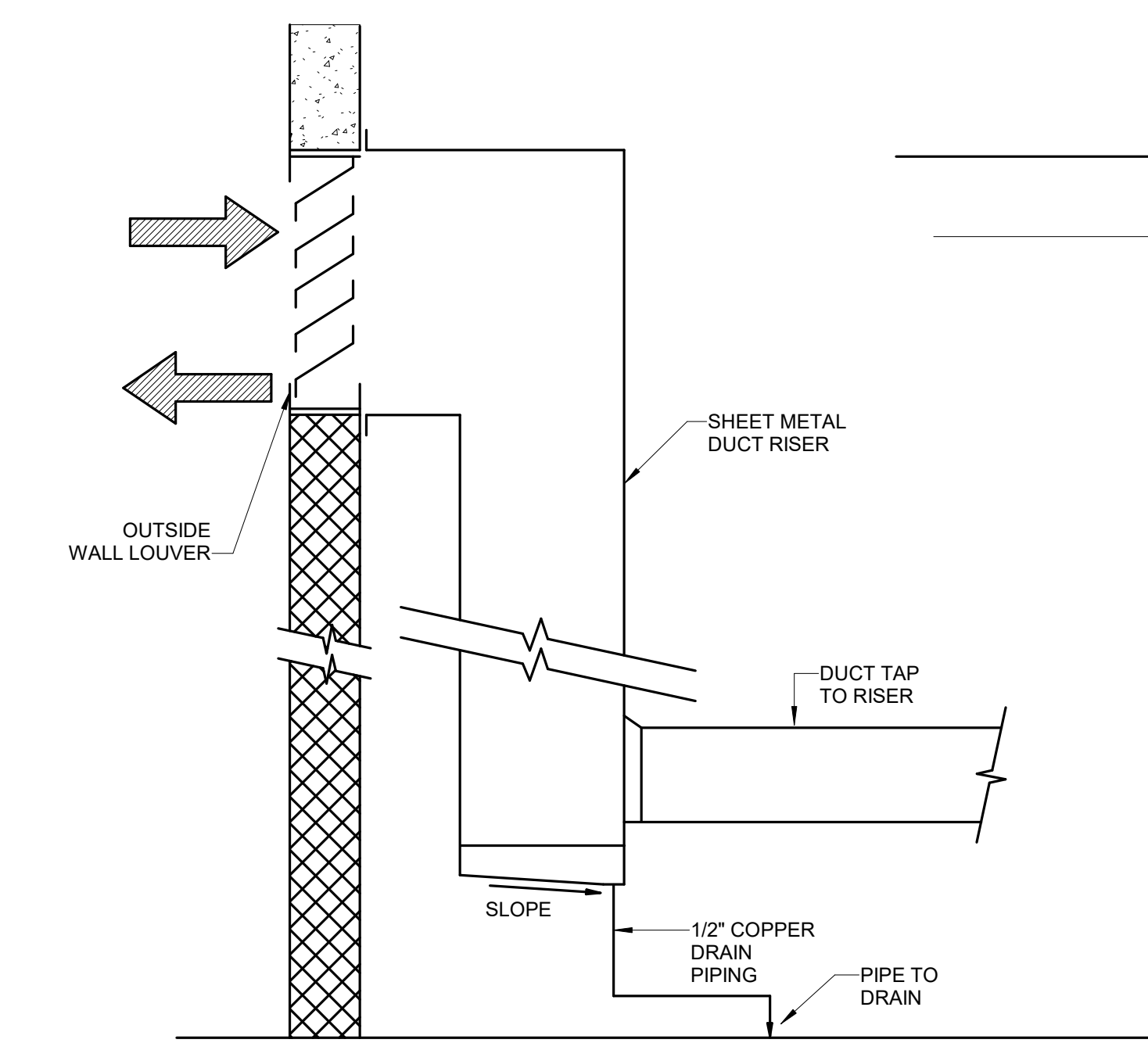
Scale

1/8" = 1'-0"

1A-M8.001

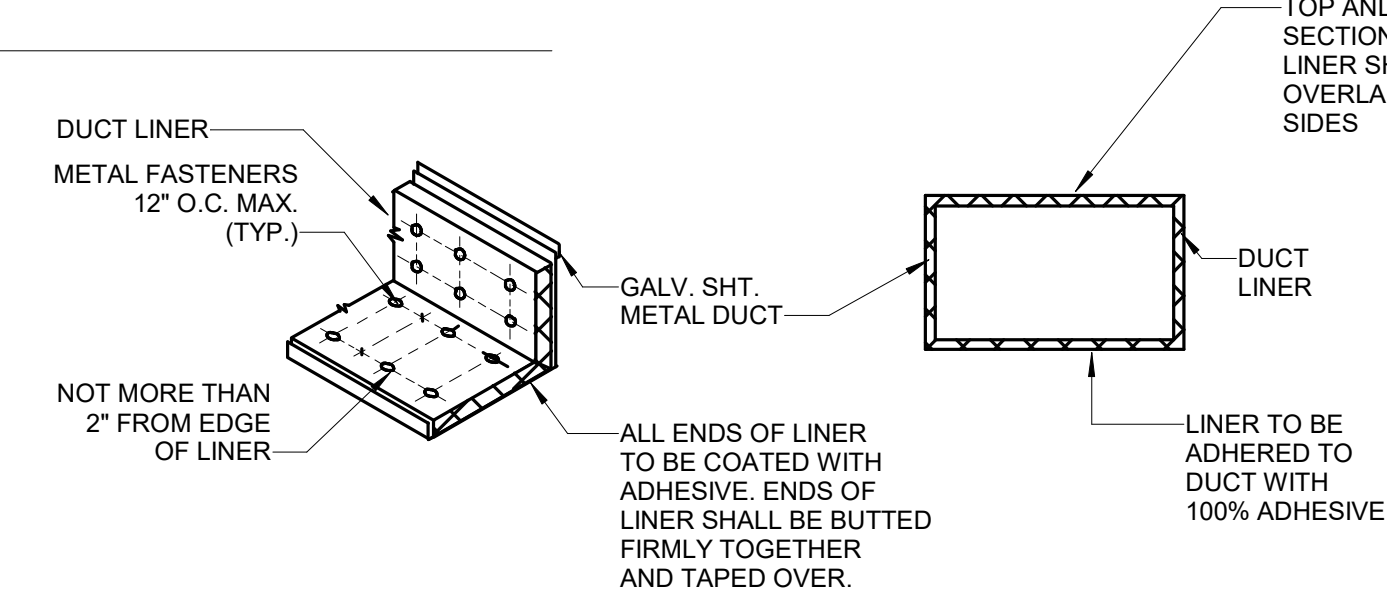


14 EXTERIOR LOUVER PLENUM BOX DETAIL
NO SCALE

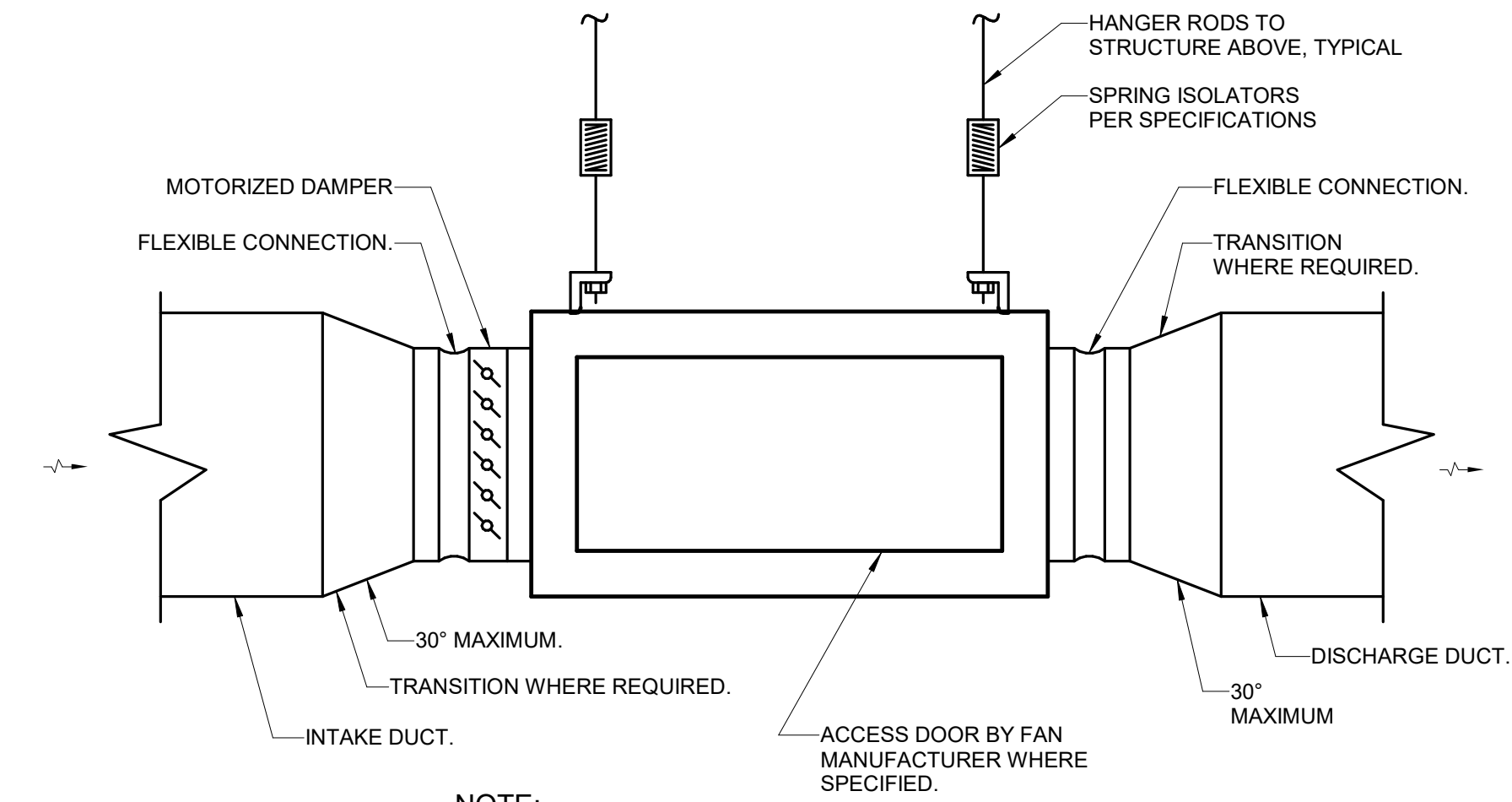


15 OUTSIDE WALL LOUVER DUCT CONNECTION
NO SCALE

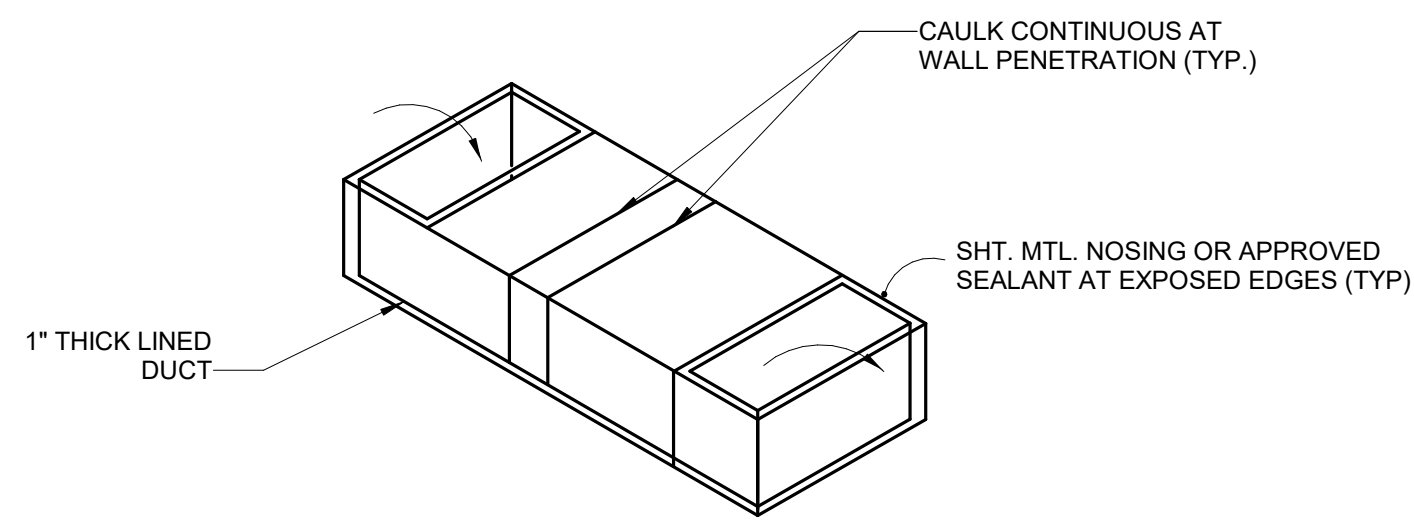
15 OUTSIDE WALL LOUVER DUCT CONNECTION
NO SCALE



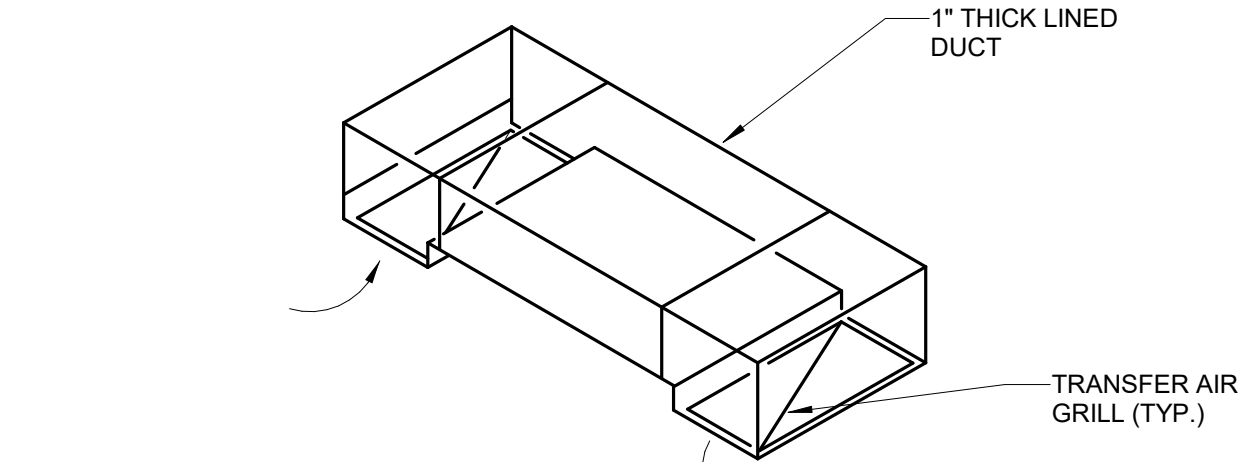
12 DUCT LINER DETAIL
NO SCALE



13 INLINE FAN DETAIL
NO SCALE

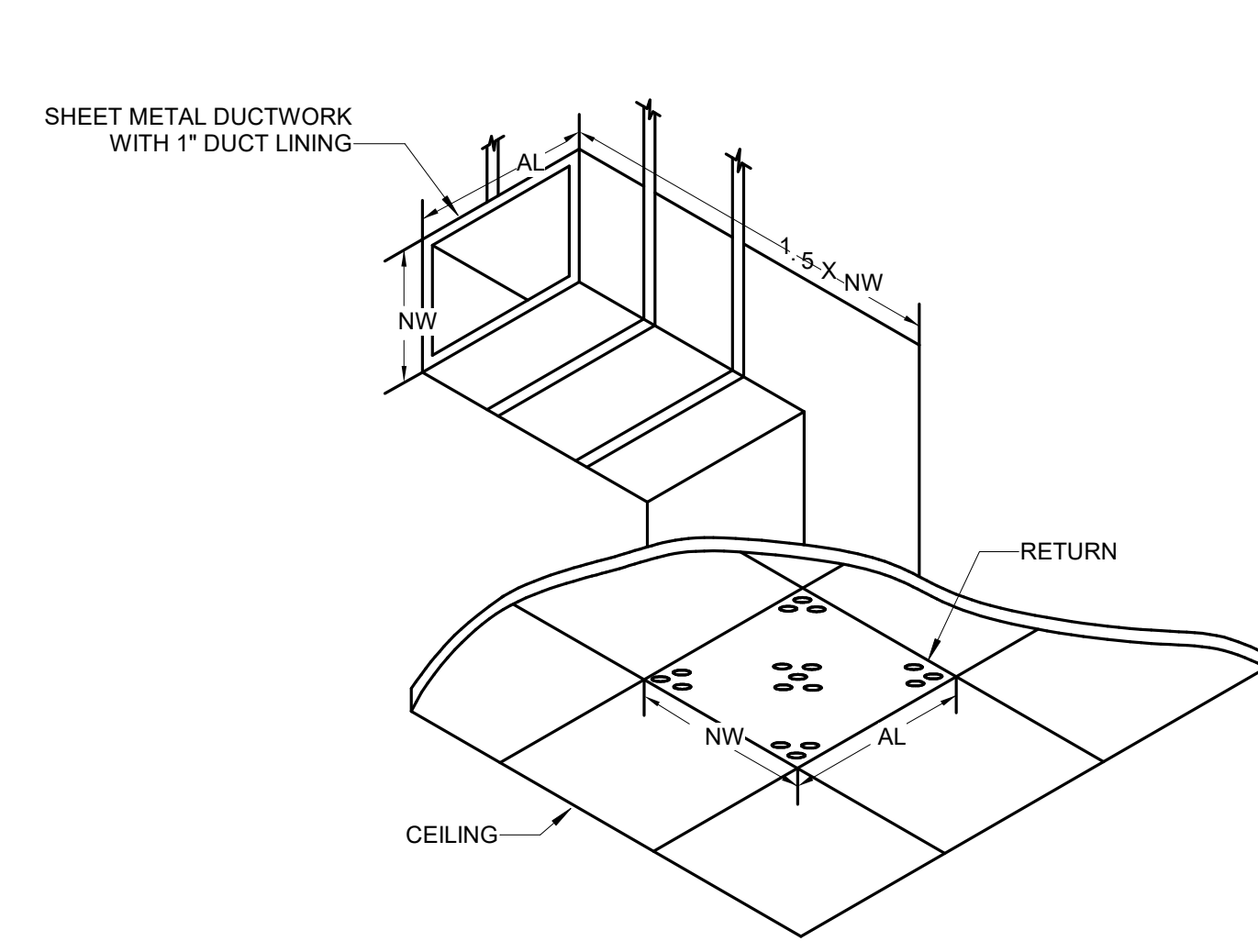


RETURN AIR TRANSFER BOOT

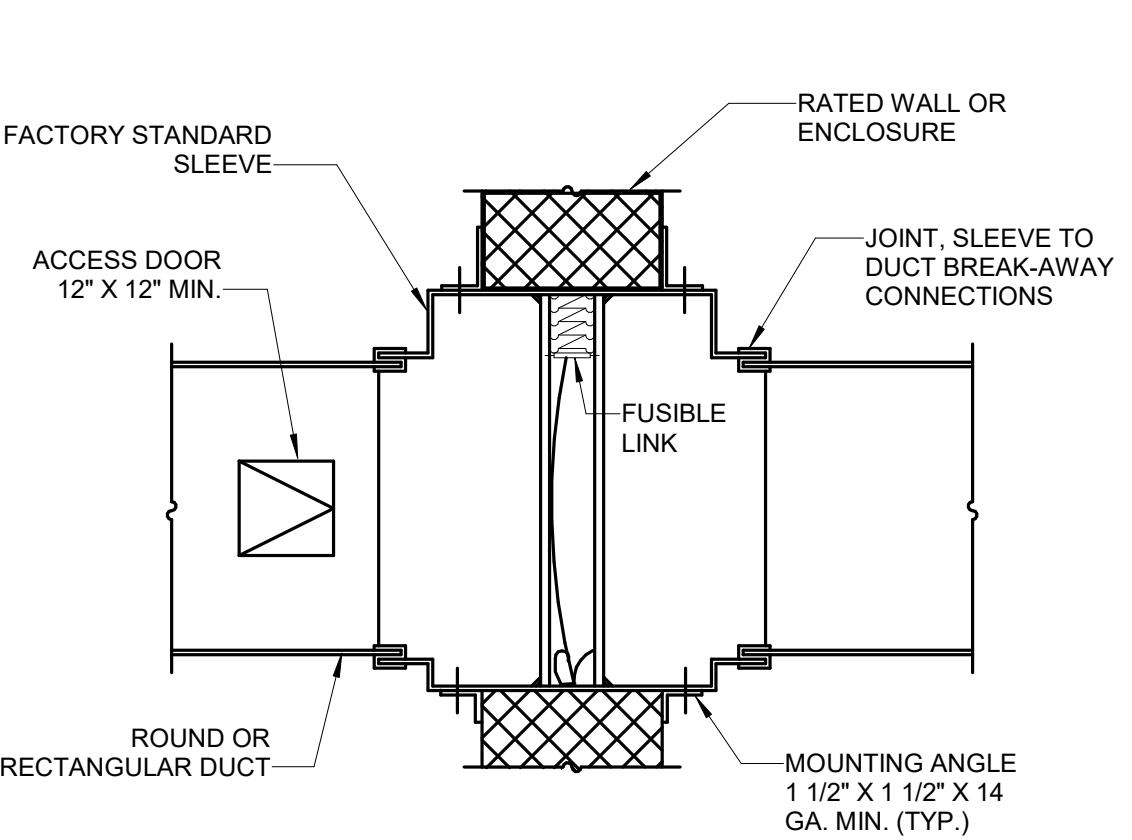


TRANSFER AIR DUCT

10 RETURN AIR TRANSFER BOOT AND AIR DUCT
NO SCALE



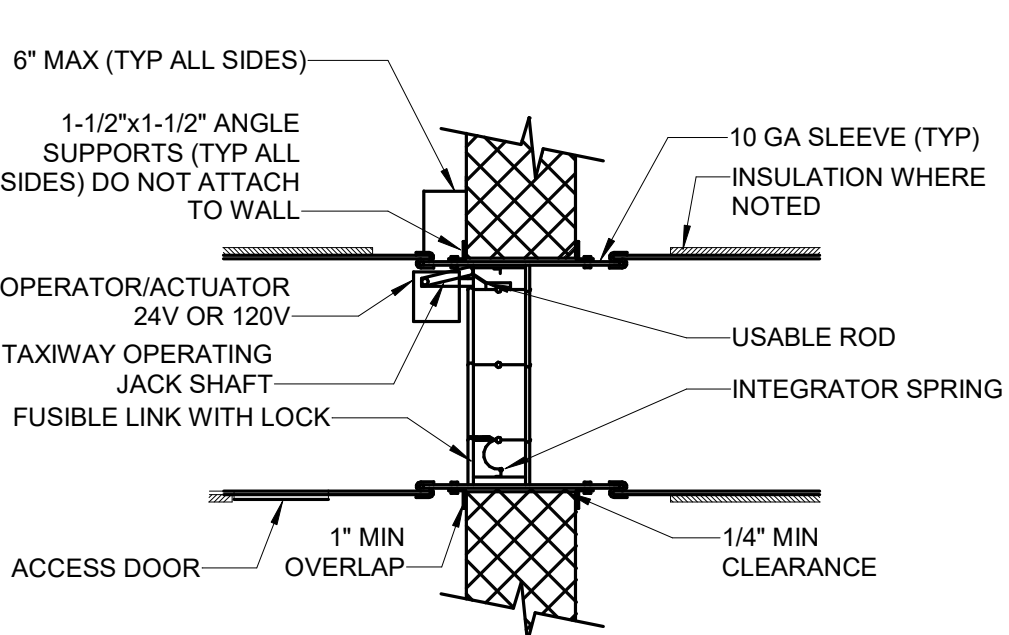
11 RETURN AIR BOOT DETAIL
NO SCALE



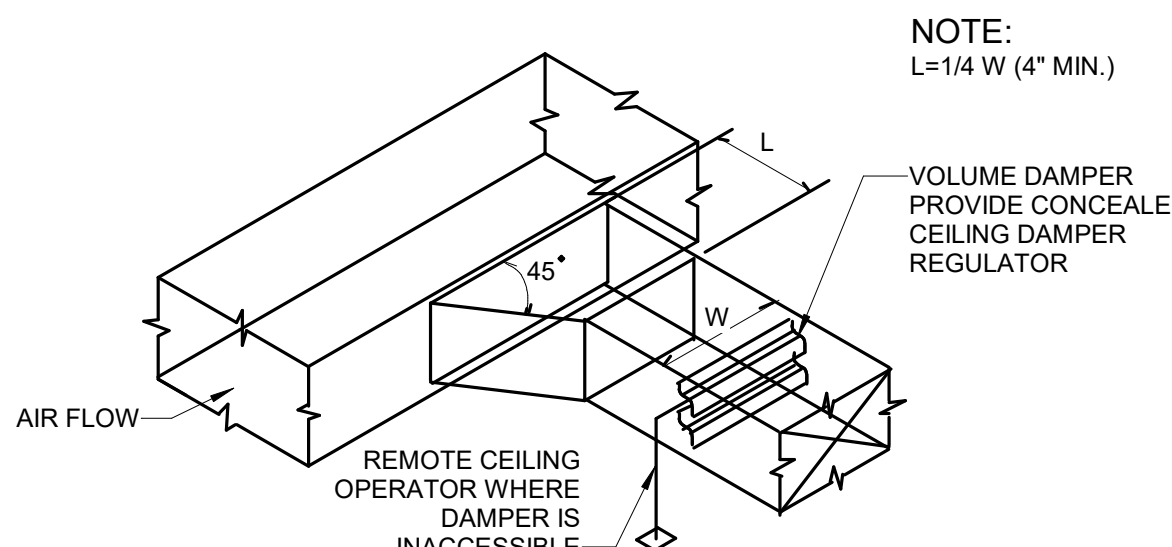
NOTES:

1. DYNAMIC FIRE DAMPER SHALL BE USED.
2. FIRE DAMPERS SHALL BE INSTALLED STRICTLY PER MANUFACTURER'S PRINTED INSTRUCTIONS.
3. FIRE DAMPERS SHALL COMPLY WITH THE REQUIREMENTS OF THE INTERNATIONAL BUILDING CODE AND INTERNATIONAL MECHANICAL CODE.
4. MANUFACTURER'S INSTALLATION INSTRUCTIONS SHALL BE MADE AVAILABLE TO INSPECTING AUTHORITIES.

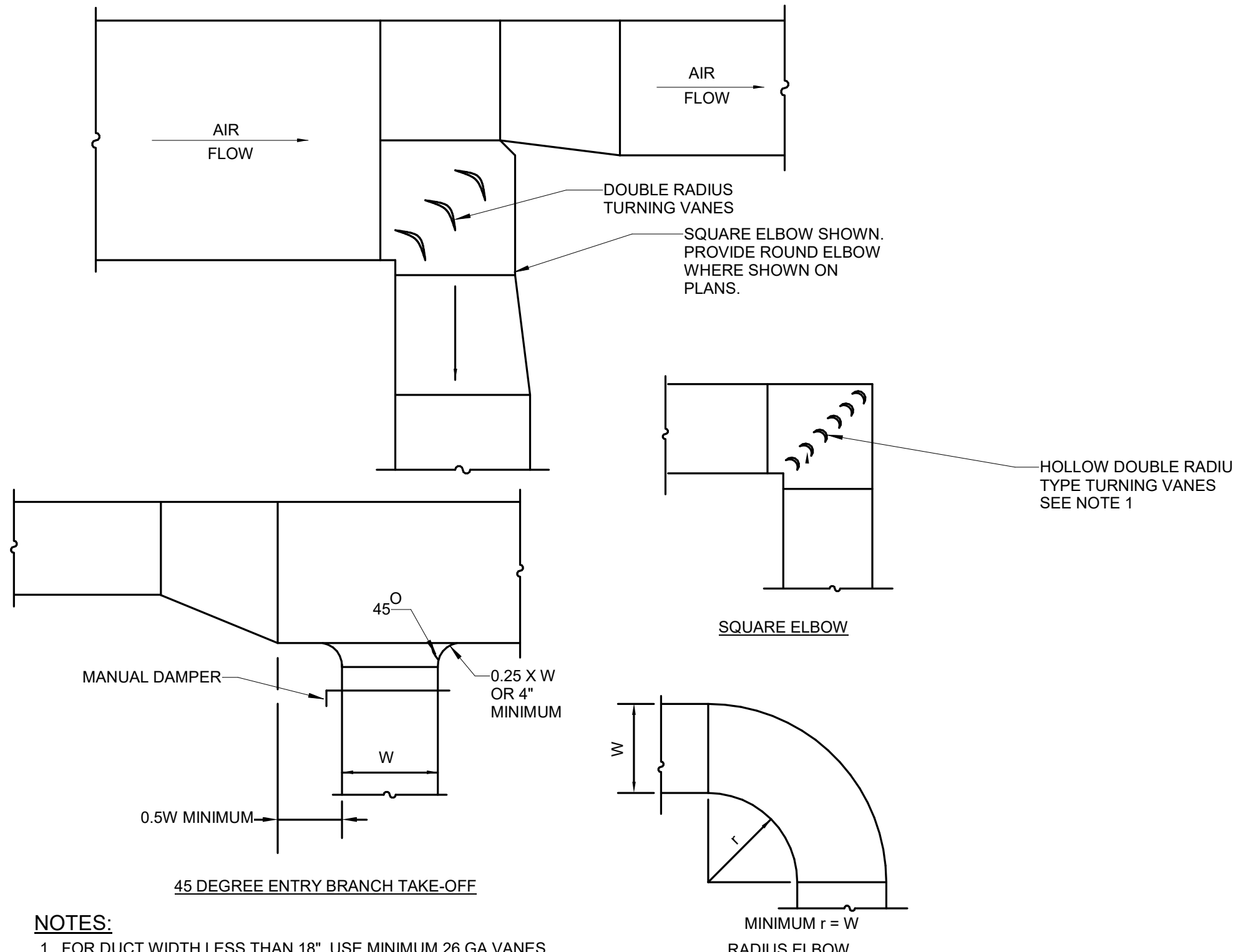
6 FIRE DAMPER
NO SCALE



7 COMBINATION FIRE SMOKE DAMPER DETAIL
NO SCALE



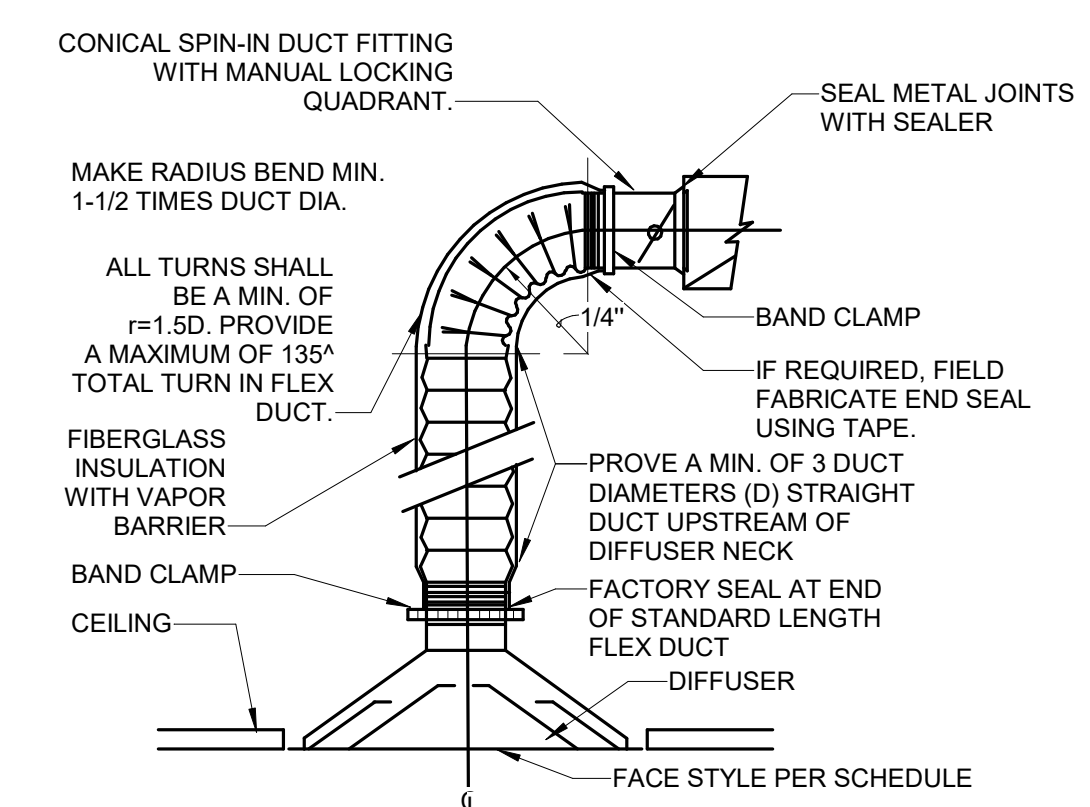
8 BRANCH DUCT TAKE-OFF DETAIL
NO SCALE



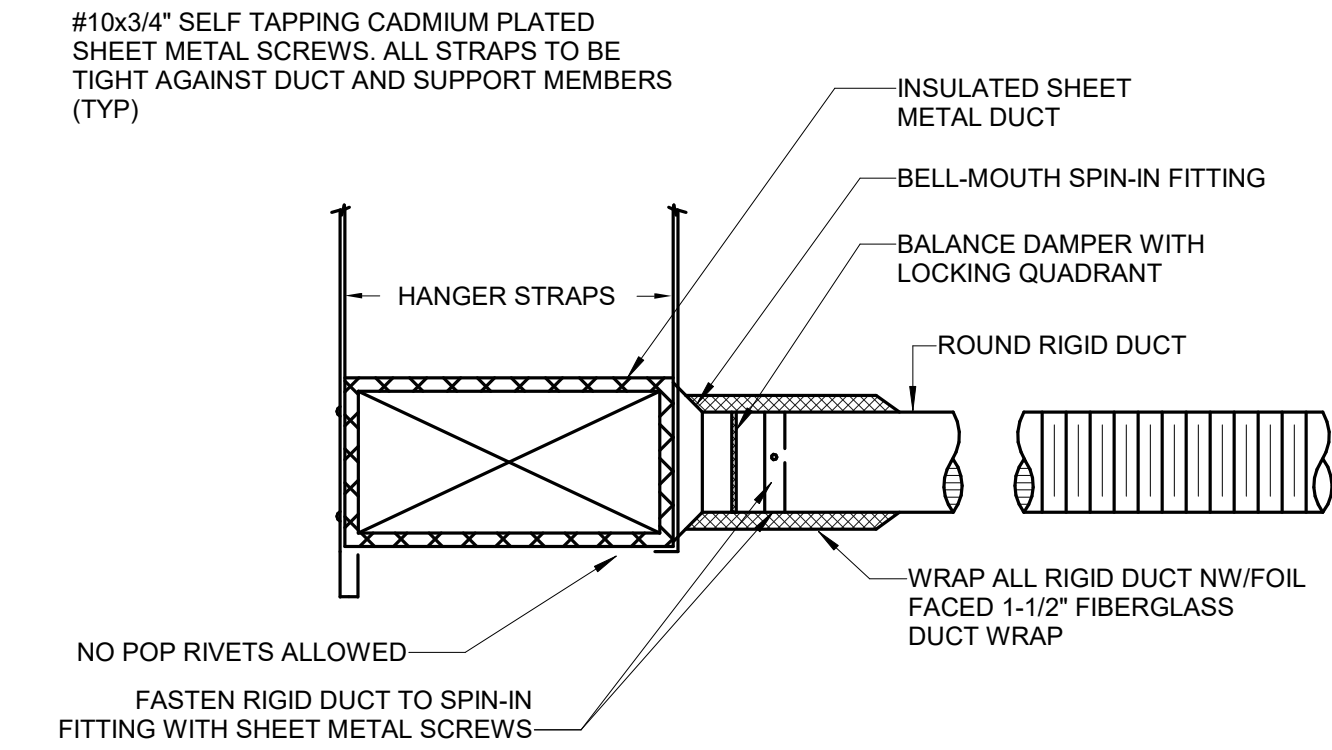
NOTES:

1. FOR DUCT WIDTH LESS THAN 18", USE MINIMUM 26 GA VANES AT 2-1/8" O.C. FOR DUCT 18" AND WIDER, USE MINIMUM 24 GA VANES AT 3-1/4" O.C.
2. FITTINGS TO BE 2 GAGES HEAVIER THAN CONNECTED DUCT.

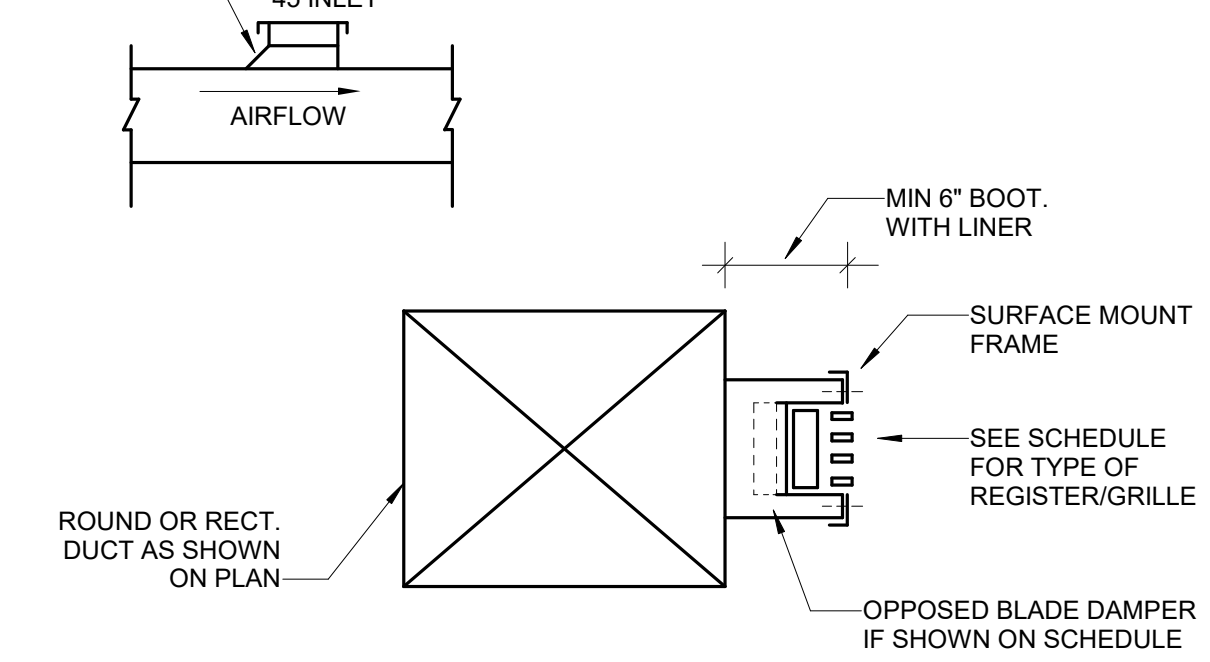
9 RECTANGULAR DUCT FITTINGS AND TAKE-OFF
NO SCALE



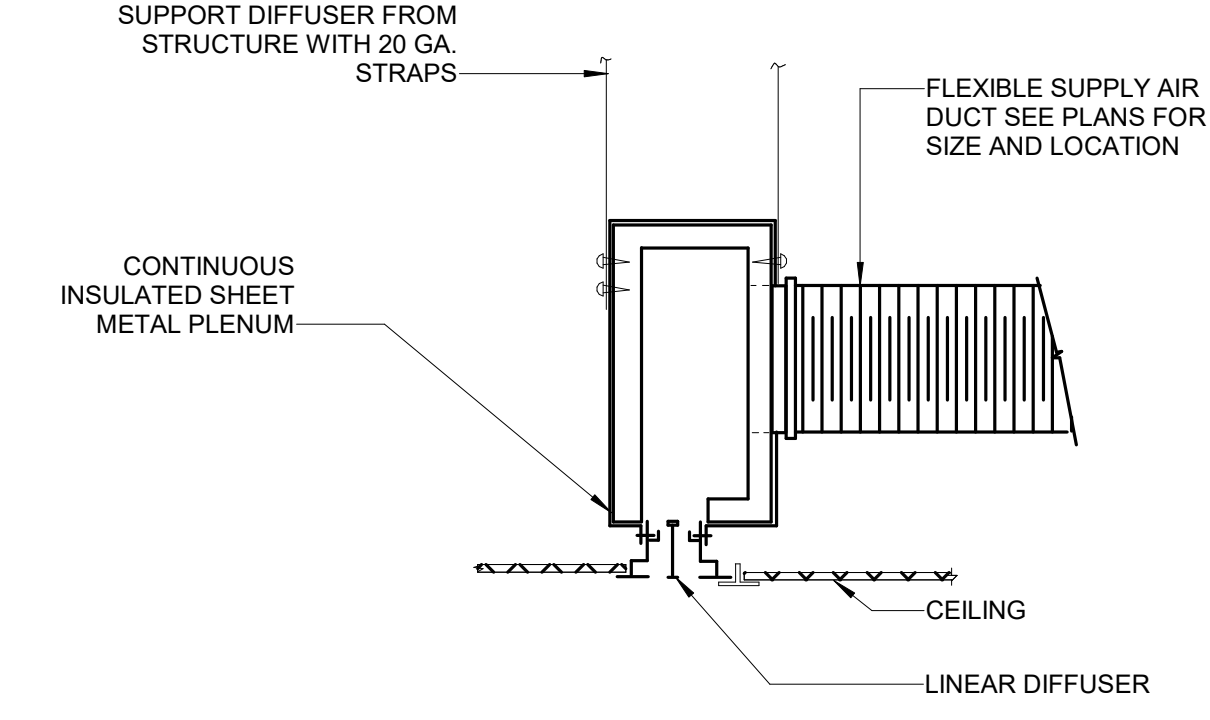
1 CEILING DIFFUSER DETAIL
NO SCALE



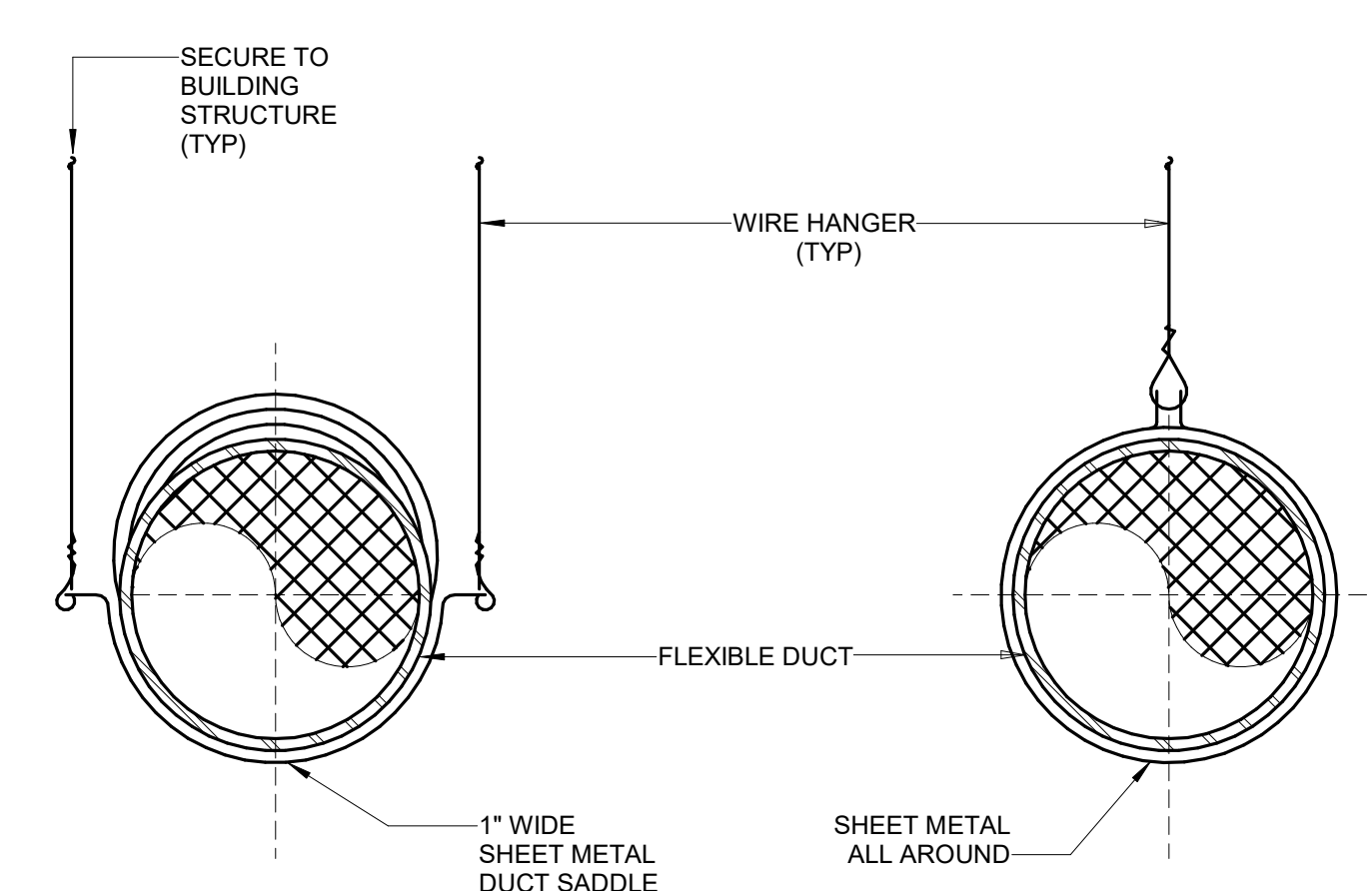
2 FLEX DUCT/ SPIN-IN FITTING DETAIL
NO SCALE



3 DUCT MOUNTED AIR DEVICE DETAIL
NO SCALE



4 LINEAR DIFFUSER AND PLENUM DETAIL
NO SCALE



5 FLEXIBLE DUCT SUPPORT
NO SCALE

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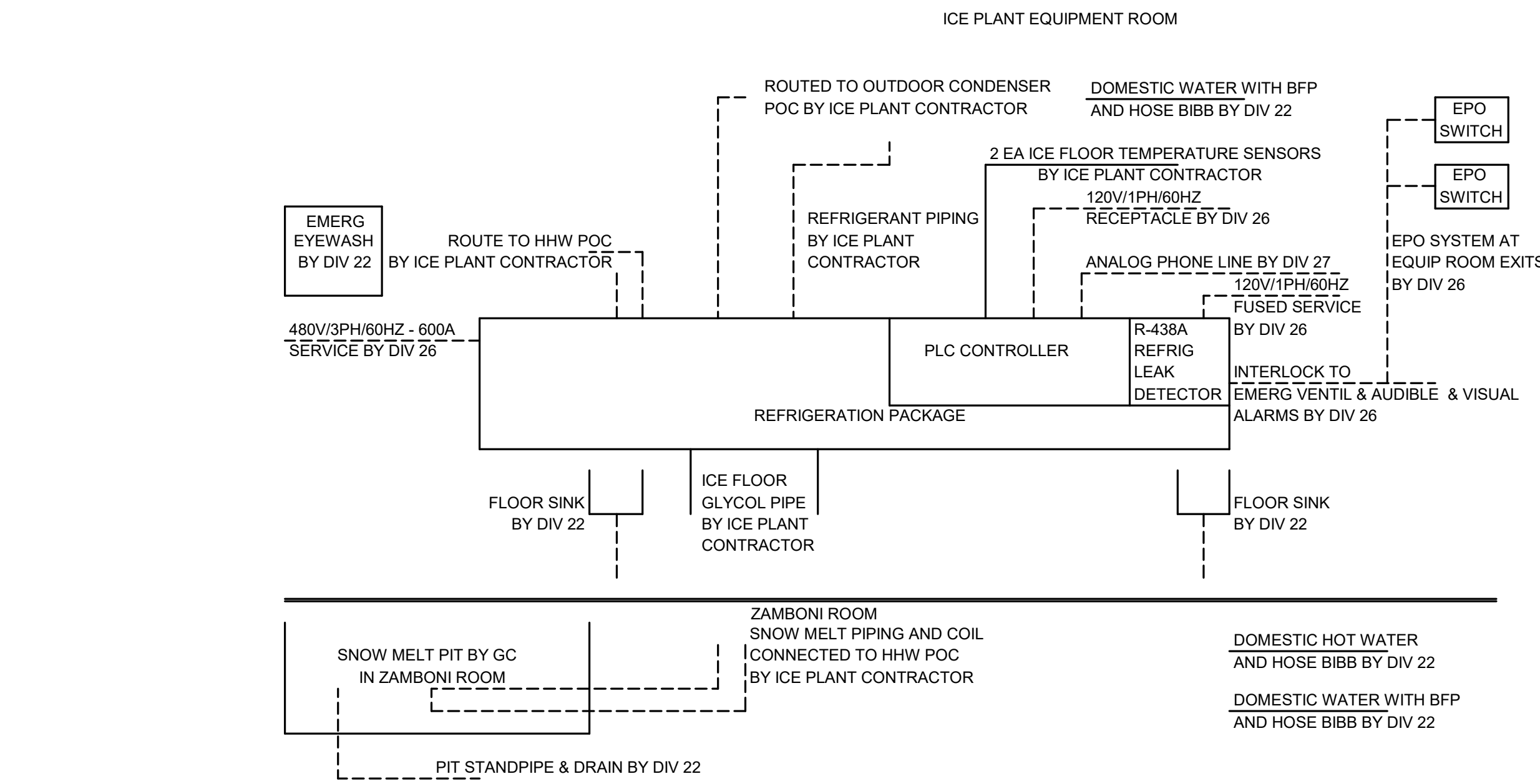
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PROMENADE - MECHANICAL DETAILS

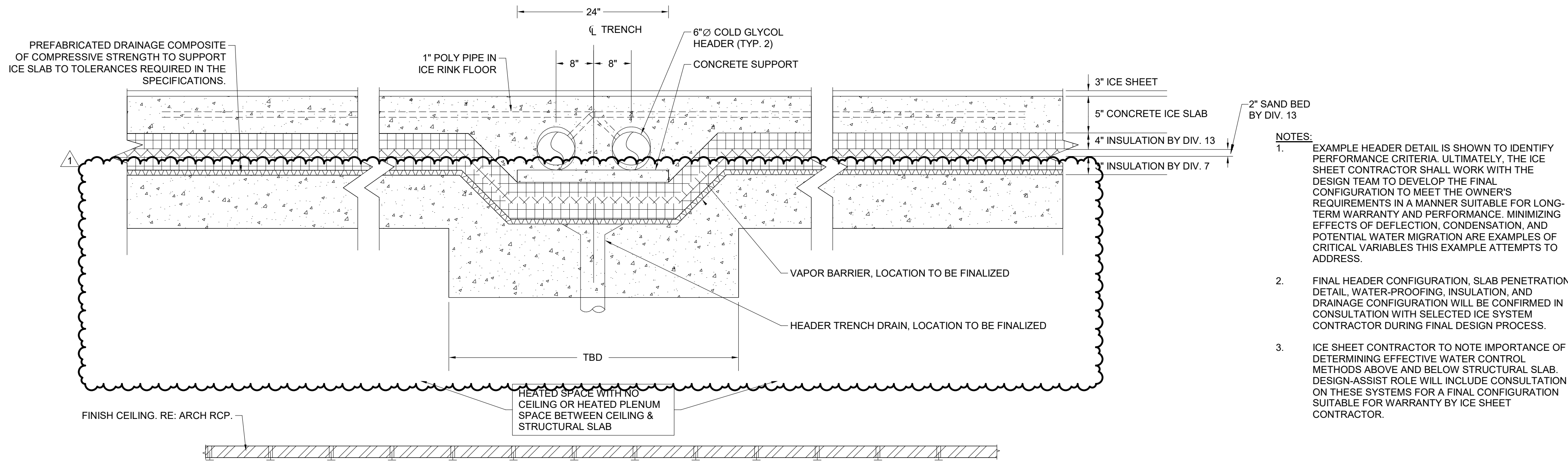
Scale

NO SCALE

1A-M8.002

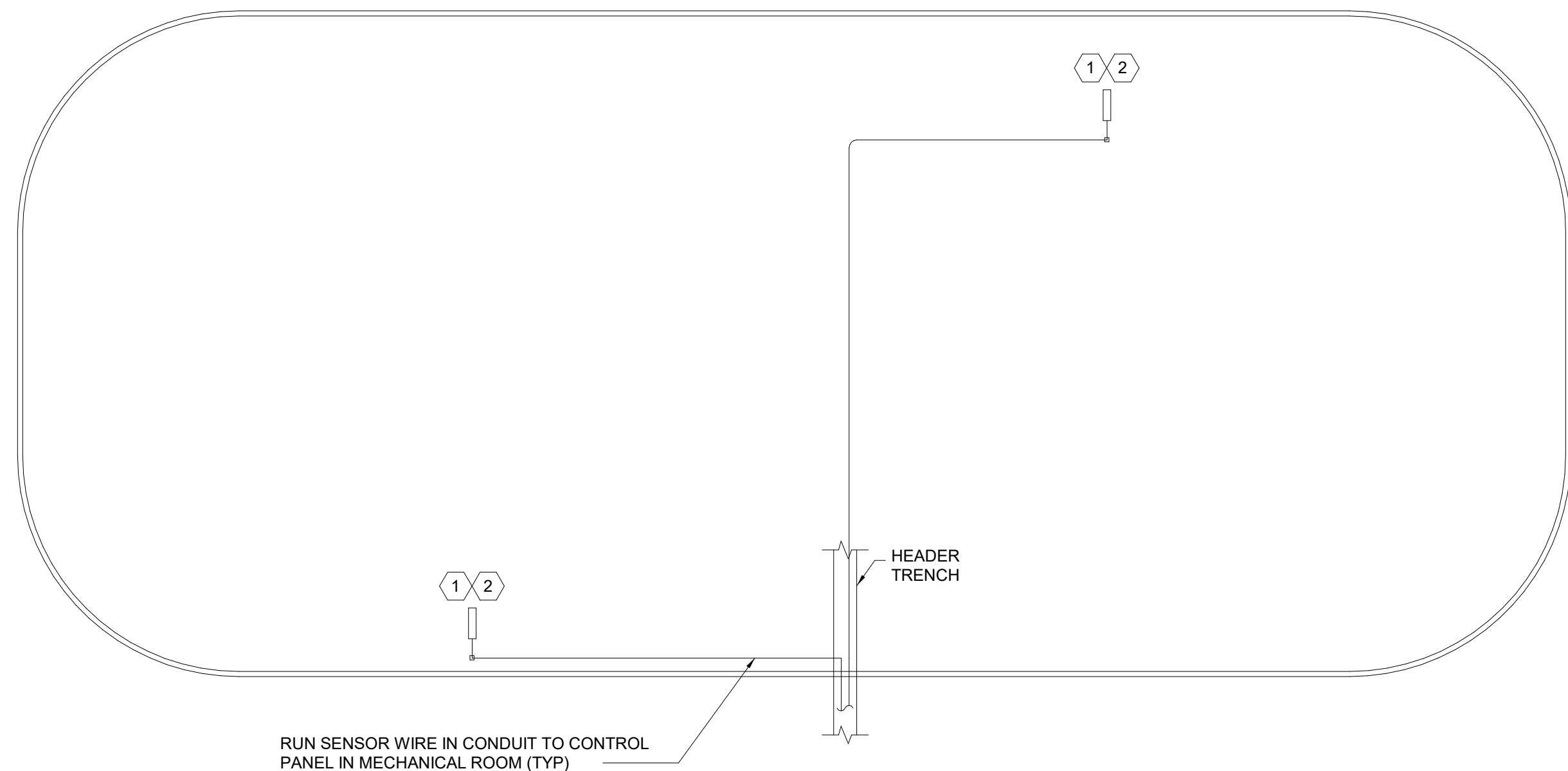


1 ICE SYSTEM COORDINATION
NO SCALE

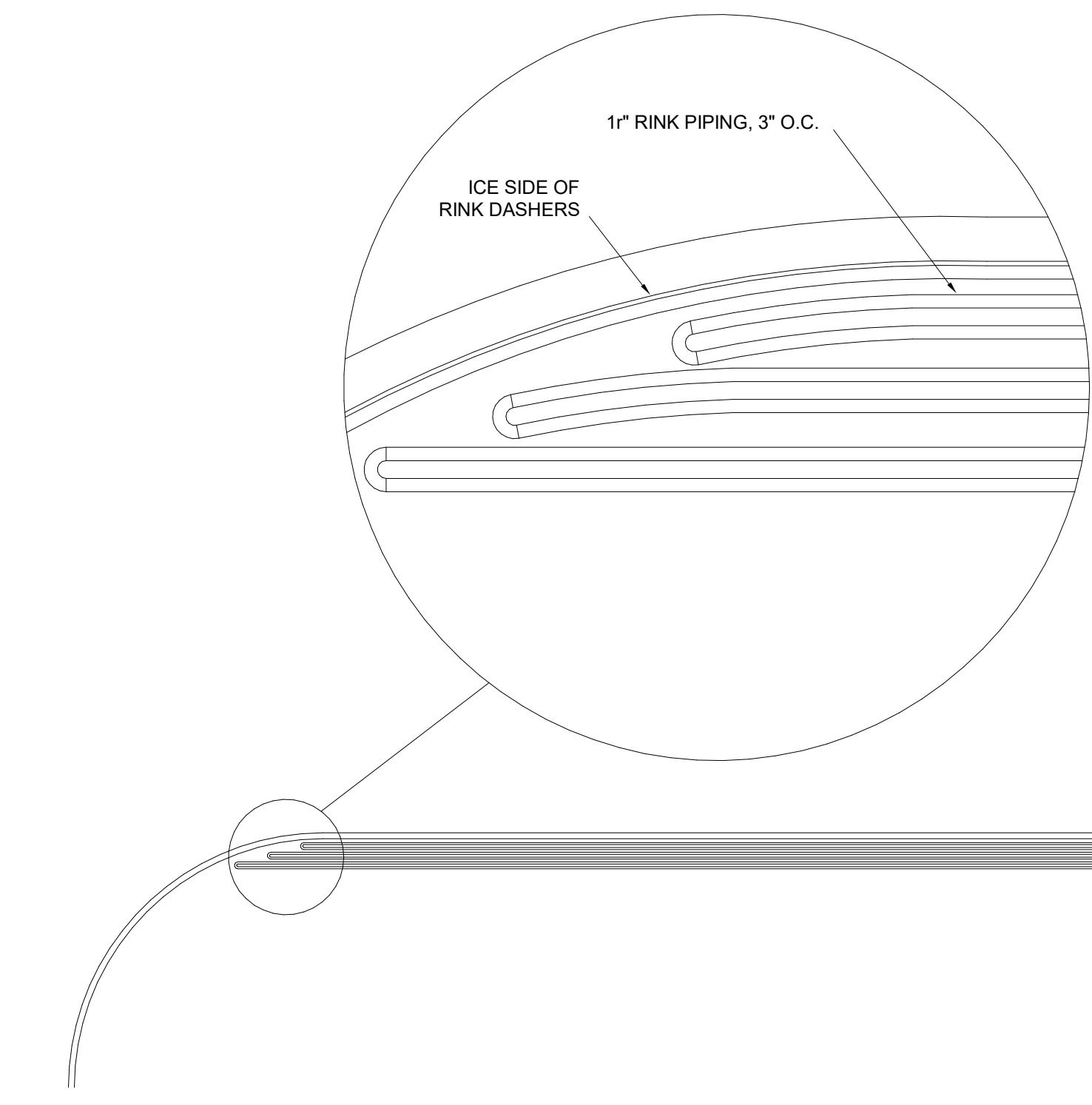


2 SECTION AT HEADER TRENCH
NO SCALE

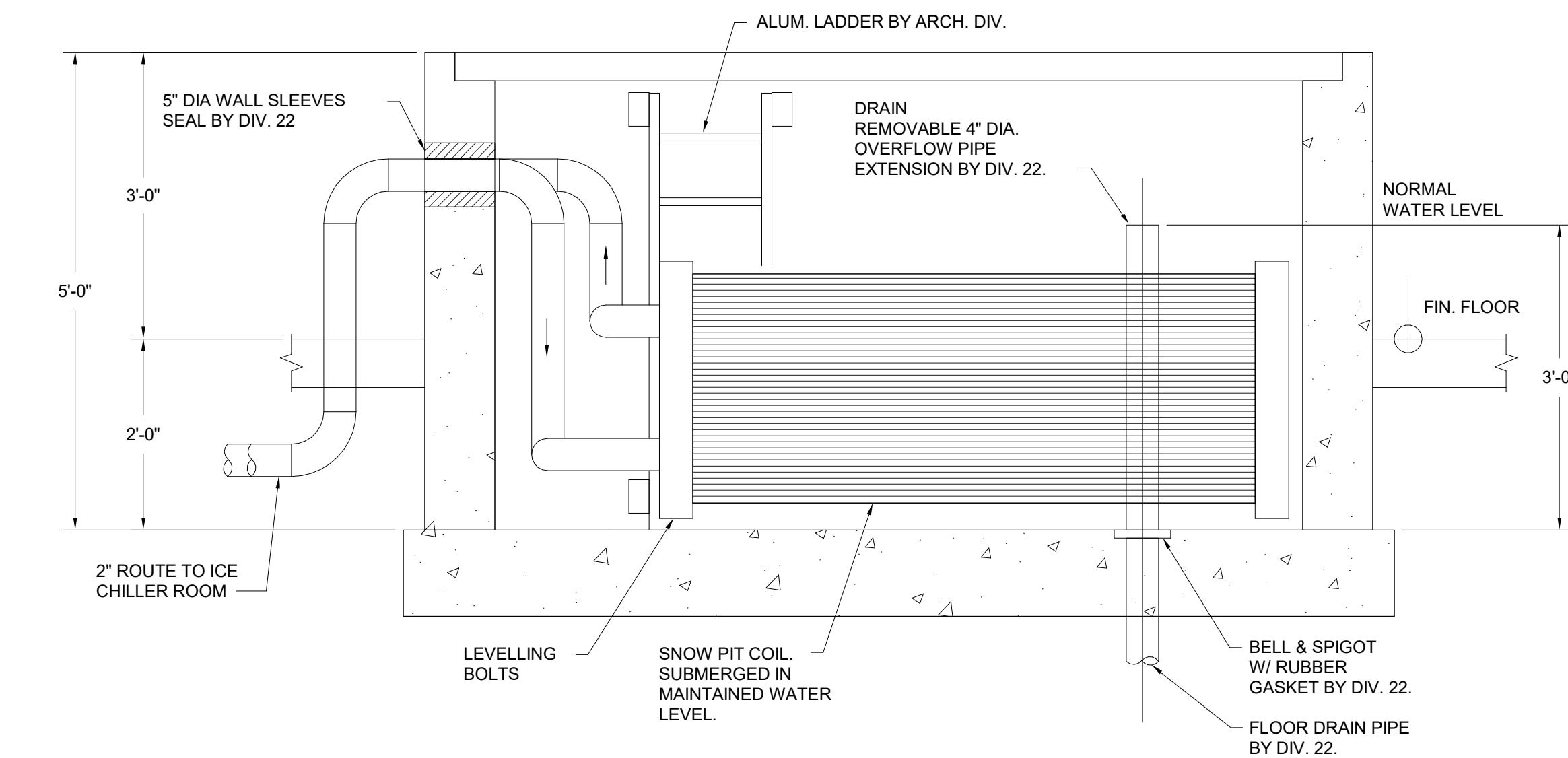
- NOTES:
- 1 RINK FLOOR TEMPERATURE RTD.
 - 2 RUN RTD IN DEDICATED CONDUIT TO CONTROL PANEL IN REFRIGERATION ROOM.



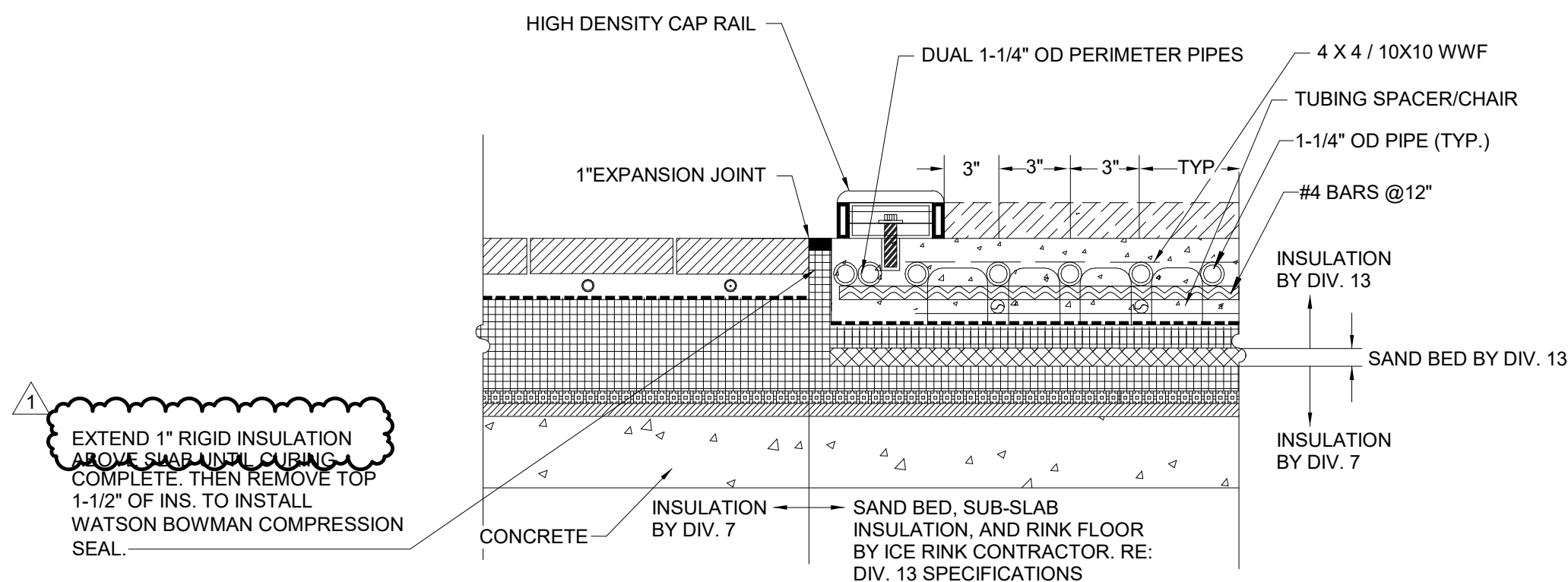
3 RINK TEMPERATURE SENSOR PLAN VIEW
NO SCALE



4 ENLARGED VIEW OF ICE RINK PIPING AT DASHER BOARD
NO SCALE



5 SNOW MELT PIT COIL DETAIL
NO SCALE



6 THRESHOLD AT ICE RINK - OVER STRUCTURE
NO SCALE

Date	Description
2021.05.19	BP3: PROMENADE - ISSUE FOR BID AND PERMIT
2021.07.01	BP3: PROMENADE - BULLETIN 03 - PERMIT RESPONSES

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Project Name

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IMPROVEMENTS

Project Number

003.7835.000

Description

PROMENADE - ICE PLANT DETAILS

Scale

NO SCALE

1A-M9.000

A

ICE SHEET SYSTEM SCHEMATIC FLOW DIAGRAM – R438A SYSTEM

NO SCALE



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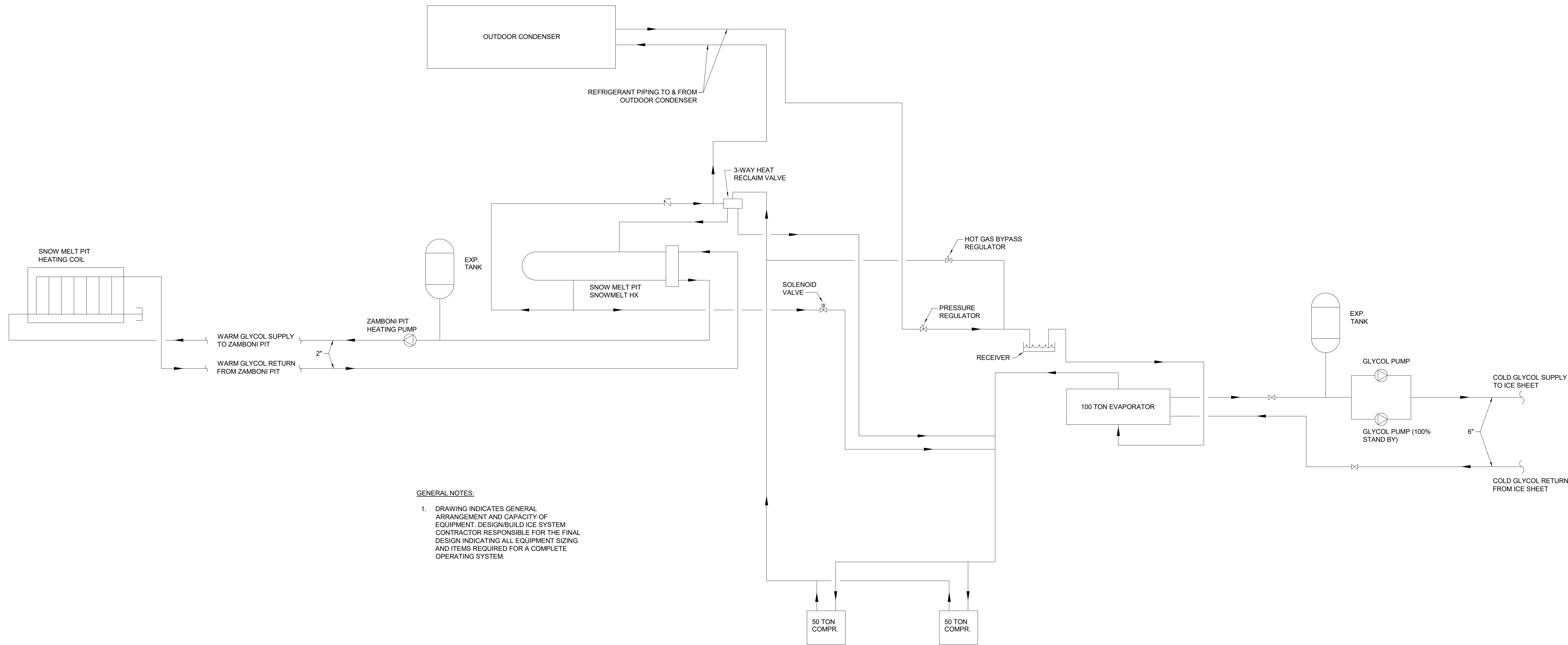
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GENERAL NOTES:

1. DRAWING INDICATES GENERAL ARRANGEMENT AND CAPACITY OF EQUIPMENT. DESIGNBUILT ICE SYSTEM CONTRACTOR RESPONSIBLE FOR THE FINAL DESIGN INDICATING ALL EQUIPMENT SIZING AND ITEMS REQUIRED FOR A COMPLETE OPERATING SYSTEM.

△ Date	Description
- 2021.05.19	BP3: PROMENADE - ISSUE FOR RECORD AND PERMIT

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Description

PROMENADE - ICE PLANT DETAILS

Scale

1/8" = 1'-0"

1A-M9.001

AIR-COOLED CHILLER SCHEDULE																																	
CODE (CH)	MANUFACTURER/ MODEL NO.	CAPACITY		CHILLED WATER DATA					ELECTRICAL																	EER	NPLV EER	KW/TON AT DESIGN CONDITIONS	HEIGHT (IN)	WIDTH (IN)	LENGTH (IN)	OPERATING WEIGHT (LBS)	REMARKS
		NOM. (TONS)	ACTUAL (MBH)	EWT (F)	LWT (F)	GPM	WPD (FT)	DESIGN DB (F)	CHILLER					HEAT TRACE																			
									SCCR	VOLT	PH	MCA	MOP	FUSE	DISCON.	FEEDER	VOLT	PH	MOP	FUSE	DISCON.	FEEDER											
2A.01	TRANE/RTAF	170	1740	54	44	374	40	88	65	460	3	321	450	RE: ONE-LINES				277	1	20	-	\$ T.O.		(2#12, #12G) 3/4"	9.7	15.3	0.934	98.0	98.0	274.0	12,500		
GENERAL NOTES: 1. FLUID CONTAINS 30% PROPYLENE GLYCOL. 2. JOB SITE ELEVATION = 6,700 FT. 3. PROVIDE FREE COOLING COIL WITH INTERNAL DIVERTING VALVE. 4. PROVIDE MANUFACTURER'S STANDARD ROOF CURB, 14" CURB HEIGHT. PROVIDE 2" DEFLECTION SPRING ISOLATORS PER MECHANICAL SPECIFICATIONS. 5. PROVIDE 115V CONVENIENCE OUTLET. 6. PROVIDE SINGLE POINT POWER CONNECTION FOR CHILLER. PROVIDE CONTROL TRANSFORMER AS REQUIRED. HEAT TRACE CONNECTION SHALL BE VERIFIED BY MANUFACTURER FOR SINGLE POINT OR DEDICATED HEAT TRACE CONNECTION. 7. PROVIDE VARIABLE SPEED COMPRESSORS FOR CAPACITY CONTROL. 8. PROVIDE EVAPORATIVE PRE-COOLING SYSTEM, EVAPORCOOL OR EQUAL. PROVIDE BOOSTER PUMP, WATER TREATMENT, EXPANSION TANK, MEDIA AT CHILLER AIR INTAKES, AND COMPLETE PIPING SYSTEM TO PROVIDE DOMESTIC WATER TO EVAPORATIVE PRE-COOLING MEDIA. INTERLOCK WITH CHILLER TO OPERATE ON CALL FOR COOLING.																																	

PUMP SCHEDULE																
CODE	MANUFACTURER/ MODEL NO.	SERVICE	PUMP TYPE	GPM	HEAD (FT)	NPSHR (FT)	IMPELLER DIA (IN)	BHP	ELECTRICAL							REMARKS
									HP	VOLT	PH	FLA	FUSE	DISCON.	FEEDER	
CWP-1A.01	TACO/SKV 3006D	PRIMARY CHILLED WATER LOOP	INLINE	200	75	12	5.2	5.14	7.5	460	3	11	15A LPS-RK	30A/3P	(3#12, #12G) 3/4"C	A,B,C
CWP-1A.02	TACO/SKV 3006D	PRIMARY CHILLED WATER LOOP	INLINE	200	75	12	5.2	5.14	7.5	460	3	11	15A LPS-RK	30A/3P	(3#12, #12G) 3/4"C	A,B,C
GP-1B.01	NEPTUNE/G-50	GLYCOL FEEDER	POS. DISP.	--	--	--	--	--	0.5	120	1	10	-	CORD & PLUG	(2#12, #12G) 3/4"C	C,D
<div>GENERAL NOTES:</div> <div>1. PROVIDE MAGNETIC STARTER WITH AUXILIARY CONTACTS AND HOA SWITCH ON ALL THREE PHASE MOTORS.</div> <div>2. PROVIDE PREMIUM EFFICIENCY MOTORS FOR MOTORS 1 HP AND OVER PER NEMA STANDARD MG1-2003, TABLES 12-12 AND 12-13.</div> <div>3. FOR PARALLEL PUMP APPLICATIONS MANUFACTURER SHALL REVIEW SINGLE PUMP OPERATION SUCH THAT PUMP CAN OPERATE AND NOT EXCEED THE END OPERATION POINT ON THE PUMP CURVE AND MOTOR HP IS PROPERLY SELECTED TO PREVENT OVERLOADING.</div> <div>4. NPSHR AT SCHEDULED OPERATING POINT SHALL NOT EXCEED 0.8"NPSHA</div> <div>5. REFER TO DRAWINGS TO DETERMINE REQUIRED PUMP ROTATION. COORDINATE WITH MECHANICAL CONTRACTOR PRIOR TO ORDERING.</div> <div>REMARK NOTES:</div> <div>A. PROVIDE WITH VARIABLE FREQUENCY DRIVE WITH INTEGRAL OVER-CURRENT PROTECTION AND GROUND FAULT PROTECTION PER NEC 430.</div> <div>B. 50% CAPACITY (PARALLEL PUMP APPLICATION).</div> <div>C. FLUID CONTAINS 30% PROPYLENE GLYCOL. ALL PUMP COMPONENTS IN CONTACT WITH FLUID SHALL BE COMPATIBLE WITH GLYCOL. ADJUST STANDARD CATALOG PERFORMANCE TO ACCOUNT FOR USE OF GLYCOL.</div> <div>D. ELECTRICAL CONNECTION TO 120V WALL RECEPTACLE.</div>																

EVAPORATIVE PRE-COOLING BOOSTER PUMP SCHEDULE													
CODE (EBP)	MANUFACTURER/ MODEL NO.	SERVICE	CAPACITY		ELECTRICAL							OPERATING WEIGHT (LBS)	REMARKS
			GPM	PSI	HP	VOLT	PH	AMPS	FUSE	DISCON.	FEEDER		
1A.01	TOWLE WHITNEY/TW1000-15W-40	CHILLER EVAPORATIVE PRE-COOLING SYSTEM	15	40	1/2	480	3	3	15A LPS-RK	30A/3P	(3#12, #12G) 3/4"C	100	
GENERAL NOTES:													
1. PUMP SHALL BE PROVIDED BY EVAPORATIVE PRE-COOLING SYSTEM MANUFACTURER. REFER TO SPECIFICATIONS.													
2. PUMP SHALL BE CENTRIFUGAL TYPE WITH FACTORY WIRED VARIABLE FREQUENCY DRIVE.													
3. PROVIDE PUMP WITH INTEGRAL DIAPHRAGM EXPANSION TANK SIZED BY EVAPORATIVE PRE-COOLING SYSTEM MANUFACTURER.													
4. PROVIDE THE FOLLOWING PUMP COMPONENTS: RELIEF VALVE, CHECK VALVE, STEEL FRAME, PRESSURE GAUGE, TANK TEE, BRASS NIPPLE, AND COPPER FITTINGS.													
5. REFER TO MECHANICAL CONTROLS DRAWINGS FOR REQUIRED EVAPORATIVE PRE-COOLING SYSTEM PIPING AND CONTROL FUNCTIONS.													

EXPANSION TANK													
CODE (ET)	MANUFACTURER/ MODEL NO.	SERVICE	DESIGN PARAMETERS			OPERATING PARAMETERS		CONFIG.	TYPE	MIN. ACCEPT (GAL)	PRECHARGE (PSIG)	REMARKS	
			SYSTEM VOLUME	MIN. TEMPERATURE (F)	MAX. TEMPERATURE (F)	MIN. PRESSURE (PSIG)	MAX. PRESSURE (PSIG)						
1A.01	TACO/CA300-125	CHILLED WATER	3,000	40	90	20	67.5	VERTICAL	B	79.0	20.0		
GENERAL NOTES: 1. TYPE: B=FULL ACCEPTANCE BLADDER. 2. LOCATE GLYCOL FEEDER CONNECTION AT EXPANSION TANK CONNECTION TO HYDRONIC SYSTEM. REFER TO DETAIL. 3. PROVIDE MAKEUP WATER WITH FILL PRESSURE NO HIGER THAN 20 PSI. 4. PROVIDE PRESSURE RELIEF VALVE SET AT 75 PSIG. 5. FLUID CONTAINS 30% PROPYLENE GLYCOL.													

AIR SEPARATOR									
CODE (AS)	SERVICE	DESIGN PARAMETERS			OPERATING PARAMETERS			DIMENSIONS	
		SYSTEM FLOW (GPM)	PIPE SIZE (IN)	MAX PD (FT. HD.)	MANUFACTURER/ MODEL NO.	DIAMETER (IN.)	HEIGHT (IN.)	WEIGHT (LBS)	REMARKS
1A.01	CHILLED WATER	385	6	1	TACO/ACT06F	20	41	800.0	
<div>GENERAL NOTES:</div> <div>1. FLUID CONTAINS 30% PROPYLENE GLYCOL.</div> <div>2. PROVIDE WITH STRAINER.</div> <div>3. PROVIDE FLOOR STAND SUPPORT.</div>									



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△	Date	Description
-	2021.05.19	BP3: PROMENADE - ISSUE FOR RECORD AND PERMIT

RCRBD
Record Set
TC
07/10/2021

Seal / Signature



05/18/2021

Project Name

SSRC | BASE AREA
IMPROVEMENTS

Project Number

003.7835.000

Description

PROMENADE - MECHANICAL
SCHEDULES

Scale

1A-MEP0.000

ENERGY RECOVERY VENTILATOR SCHEDULE																																													
CODE (ERV)	LOCATION	MANUFACTURER/ MODEL NO.	SUPPLY FAN				EXHAUST FAN				COOLING CAPACITY (CHILLED WATER)								HEATING CAPACITY (HEATING HOT WATER)					SENSIBLE WHEEL HEAT RECOVERY																UNIT WEIGHT (LBS)	REMARKS				
			MAX CFM	MIN CFM	ESP "W.C. (ALT.)	HP	MAX CFM	MIN CFM	ESP "W.C. (ALT.)	HP	EAT (°F)		UNIT LAT (°F)		TOTAL (MBH)	SENSIBLE (MBH)	GPM	WPD (FT)	EAT (°F)	LAT (°F)	CAP (MBH)	GPM	WPD (FT)	COOLING				HEATING				OSA EAT (F)		OSA LAT (F)		EXH EAT (F)		EXH LAT (F)				SENSIBLE EFF.		LATENT EFF.	
											DB	WB	DB	WB										DB	WB	DB	WB	DB	WB	DB	WB	DB	WB	DB	WB	DB	WB	DB	WB			DB	WB	DB	WB
1A.01	ERV 1	CSAA021	10,000	5,000	1.50	10	10,000	5,000	1.50	10	79.1	59.6	55.0	51.0	211.4	211.4	45.7	3.5	35.4	90	465	48.9	2.4	88.0	56.2	79.1	59.6	75.0	61.5	67%	63%	-10.0	-2.0	14.1	19.1	65.0	51.5	41.6	39.0	67%	63%	7,000	A,B,C,D,E		
1A.02	ERV 2	CSAA010	4,700	2,350	1.50	5	4,700	2,350	1.50	5	79.0	59.6	55.0	51.0	100.0	100.0	22.0	1.6	35.4	90	220	23	1.0	88.0	56.2	79.0	59.6	75.0	61.5	68%	64%	-10.0	-2.0	14.0	19.1	65.0	51.5	41.6	39.0	68%	64%	4,500	A,B,C,D,E		
CODE (ERV)	LOCATION	MANUFACTURER/ MODEL NO.	ELECTRICAL SINGLE POINT CONNECTION										SUPPLY PRE FILTER						SUPPLY FINAL FILTER				EXHAUST PRE FILTER																						
			VOLT	PH	MCA	E-POW	FUSE	DISCONNECT	FEEDER	TYPE	APD ("W.C.)	TYPE	APD ("W.C.)	TYPE	APD ("W.C.)																														
1A.01	ERV 1	CSAA021	460	3	33.67	N	40A LPS-RK	60A/3P	(3#8, #10G) 3/4"C	MERV 8	0.55	MERV 15	0.55	MERV 8	0.64																														
1A.02	ERV 2	CSAA010	460	3	19.76	N	30A LPS-RK	30A/3P	(3#10, #10G) 3/4"C	MERV 8	0.56	MERV 15	0.56	MERV 8	0.65																														

GENERAL NOTES:

1. PROVIDE NEMA PREMIUM EFFICIENCY MOTORS.

2. INSTALL UNITS WITH ADEQUATE CLEARANCE FOR COIL PULL, FILTER REPLACEMENT AND TO FULLY OPEN ACCESS DOORS.

3. PROVIDE MINIMUM CLEARANCE IN FRONT OF DISCONNECTS SWITCHES AND CONTROL PANELS AS REQUIRED AND TO COMPLY FULLY WITH NEC 110.26.

4. UNIT STATIC PRESSURE CAPABILITY SHALL INCLUDE SCHEDULED EXTERNAL STATIC PRESSURE PLUS ALL SCHEDULED INTERNAL PRESSURE DROPS.

5. SCHEDULED FAN VALUES (CFM, SP AND HP) ARE ACTUAL AT ALTITUDE. MOTOR HP HAS BEEN ADJUSTED FROM SEA LEVEL CONDITIONS FOR OPERATION AT JOB SITE ELEVATION. JOB SITE ELEVATION = 6700 FT.

6. PROVIDE DUCT SMOKE DETECTOR IN THE SUPPLY AIR DUCT AND RETURN AIR DUCT. RE: MECHANICAL CONTROLS DRAWINGS.

7. MAXIMUM COOLING COIL FACE VELOCITY = 500 FPM

8. ERV-1A.02 UNIT TO BE MOUNTED ON STRUCTURAL SUPPORTS. RE: STRUCTURAL DRAWINGS.

8. ERV-1A.01 PROVIDE STEEL BASE RAILS.

10. PROVIDE SINGLE POINT POWER CONNECTION.

11. CHILLED WATER: EWT = 44F, LWT = 54F, 30% PROPYLENE GLYCOL.

12. HEATING WATER: EWT = 150F, LWT = 130F, 30% PROPYLENE GLYCOL.

REMARKS:

A. 100% OUTSIDE AIR UNIT WITH 2-POSITION OUTSIDE AIR DAMPER AND 2-POSITION EXHAUST AIR DAMPERS.

B. PROVIDE VARIABLE FREQUENCY DRIVES ON ALL SUPPLY AND EXHAUST FANS. UNIT SHALL BE CONFIGURED TO CONTROL SUPPLY AIR AND EXHAUST AIR DUCT STATIC PRESSURE WITHIN THE BUILDING.

C. PROVIDE MODULATING 2-WAY CONTROL VALVES FOR CHILLED WATER AND HEATING HOT WATER.

D. PROVIDE CONVENIENCE RECEPTACLE POWERED FROM UNIT SINGLE POINT POWER CONNECTION. PROVIDE STEP-DOWN TRANSFORMER.

E. PROVIDE INTERNAL ISOLATION OF ALL FANS AND MOTORS. REFER TO SPECIFICATIONS.

HORIZONTAL FAN COIL SCHEDULE (HYDRONIC)																										
CODE (HFCU)	MANUFACTURER/ MODEL NO.	AREA SERVED	FAN		COOLING COIL						HEATING COIL						ELECTRICAL								REMARKS	
			SUPPLY CFM	ESP (IN.)	EAT (°F) DB WB	TOTAL MBH	SENS MBH	MAX LAT (°F)	GPM	ROW	WPD (FT)	EAT (°F)	MIN LAT (°F)	GPM	ROW	WPD (FT)	HP	VOLT	PH	FLA	DISCON.	FEEDER	FUSE			
1	ENGINEERED COMFORT/D35FH2W-08	1 TON	600	0.3	75 62	12.8	10.2	55	2.7	4	1.2	65	11.5	85	1.3	1	4.6	1/8	120	1	3.3	\$ T.O.	(2#12, #12G) 3/4"C	-		
2	ENGINEERED COMFORT/D35FH2W-16	2 TON	1100	0.3	75 62	25.7	19.7	55	5.4	5	2.7	65	19.6	85	2.2	1	2.5	1/4	120	1	7.2	\$ T.O.	(2#12, #12G) 3/4"C	-		
3	ENGINEERED COMFORT/D35FH2W-24	3 TON	1800	0.3	75 62	38.7	31.1	55	8.1	5	3.6	65	31.1	85	3.5	1	6.5	1/2	120	1	11.8	\$ T.O.	(2#12, #12G) 3/4"C	-		
4	ENGINEERED COMFORT/D35FH2W-30	4 TON	2300	0.3	75 62	49.5	39.8	55	10.4	5	2.3	65	40.5	85	4.6	1	3.2	1/2	120	1	12.6	\$ T.O.	(2#12, #12G) 3/4"C	-	A	
GENERAL NOTES: 1. CHILLED WATER: EWT = 44°F, LWT = 54°F, 30% PROPYLENE GLYCOL. 2. HEATING WATER: EWT = 150°F, LWT = 130°F, 30% PROPYLENE GLYCOL. 3. PROVIDE 2" MERV 8 THROW AWAY FILTERS. 4. SCHEDULED FAN VALUES (CFM, SP AND HP) ARE ACTUAL AT ALTITUDE. MOTOR HP HAS BEEN ADJUSTED FROM SEA LEVEL CONDITIONS FOR OPERATION AT JOBSITE ELEVATION. JOB SITE ELEVATION = 6700 FT. 5. PROVIDE PREMIUM EFFICIENCY MOTORS FOR MOTORS 1 HP AND OVER PER MENA STANDARD MG1-2003, TABLES 12-12 AND 12-13. 6. PROVIDE CONDENSATE PUMP POWERED FROM EQUIPMENT. PUMP SHALL BE PROVIDED WITH VOLTAGE MATCHING FAN COIL UNIT. IF TRANSFORMER IS PROVIDED FOR CONDENSATE PUMP OPERATION, PROVIDE LINE ITEM COST. GRAVITY DRAINAGE ACCEPTABLE WHERE POSSIBLE. 7. DESIGN OUTSIDE AIR CONDITIONS: COOLING: 88F DB/56.2F WB HEATING: -10F DB																										
REMARK NOTES: A. PROVIDE DUCT SMOKE DETECTORS PER CODE FOR ALL UNITS 2000 CFM OR GREATER.																										

HIGH WALL FAN COIL SCHEDULE (HYDRONIC)																								
CODE (WFCU)	MANUFACTURER/ MODEL NO.	AREA SERVED	FAN			COOLING COIL						ELECTRICAL										REMARKS		
			SUPPLY CFM	ESP (IN.)	EAT (°F) DB WB	TOTAL MBH	SENS MBH	MAX LAT(°F)	GPM	ROW	WPD (FT)	HP	VOLT	PH	FLA	DISCON.	FEEDER	FUSE						
1A.01	MULTIAQUA/MHWW-36-H-3	MAIN ELEC	850	0	80 67	36.0	22.0	55	9.5	1	24.5	1/12	120	1	0.9	\$ T.O.	(2#12, #12G) 3/4"C	-					A	
1A.02	MULTIAQUA/MHWW-36-H-3	IDF/IT	850	0	80 67	36.0	22.0	55	9.5	1	24.5	1/12	120	1	0.9	\$ T.O.	(2#12, #12G) 3/4"C	-					A	
1A.03	MULTIAQUA/MHWW-36-H-3	IDF/IT RM	850	0	80 67	36.0	22.0	55	9.5	1	24.5	1/12	120	1	0.9	\$ T.O.	(2#12, #12G) 3/4"C	-					A	
1A.04	MULTIAQUA/MHWW-36-H-3	MAIN ELEC	850	0	80 67	36.0	22.0	55	9.5	1	24.5	1/12	120	1	0.9	\$ T.O.	(2#12, #12G) 3/4"C	-					A	
1A.05	MULTIAQUA/MHWW-36-H-3	ELEC	850	0	80 67	36.0	22.0	55	9.5	1	24.5	1/12	120	1	0.9	\$ T.O.	(2#12, #12G) 3/4"C	-					A	
1A.06	MULTIAQUA/MHWW-36-H-3	ELEC	850	0	80 67	36.0	22.0	55	9.5	1	24.5	1/12	120	1	0.9	\$ T.O.	(2#12, #12G) 3/4"C	-					A	
3A.01	MULTIAQUA/MHWW-36-H-3	ELEC	850	0	80 67	36.0	22.0	55	9.5	1	24.5	1/12	120	1	0.9	\$ T.O.	(2#12, #12G) 3/4"C	-					A	
GENERAL NOTES:																								
1. CHILLED WATER: EWT = 44°F, LWT = 54°F, 30% PROPYLENE GLYCOL.																								
2. SCHEDULED FAN VALUES (CFM, SP AND HP) ARE ACTUAL AT ALTITUDE. MOTOR HP HAS BEEN ADJUSTED FROM SEA LEVEL CONDITIONS FOR OPERATION AT JOBSITE ELEVATION. JOB SITE ELEVATION = 6700 FT.																								
3. PROVIDE PREMIUM EFFICIENCY MOTORS FOR MOTORS 1 HP AND OVER PER MENA STANDARD MG1-2003, TABLES 12-12 AND 12-13.																								
4. PROVIDE CONDENSATE PUMP POWERED FROM EQUIPMENT. PUMP SHALL BE PROVIDED WITH VOLTAGE MATCHING FAN COIL UNIT. IF TRANSFORMER IS PROVIDED FOR CONDENSATE PUMP OPERATION, PROVIDE LINE ITEM COST. GRAVITY DRAINAGE ACCEPTABLE WHERE POSSIBLE.																								
5. DESIGN OUTSIDE AIR CONDITIONS:																								
COOLING: 88F DB/56.2F WB																								
HEATING: -10F DB																								
REMARK NOTES:																								
A. PROVIDE REMOTE THERMOSTAT.																								

CABINET UNIT HEATER SCHEDULE (HYDRONIC)																	
CODE (CUH)	MANUFACTURER/ MODEL NO.	AREA SERVED	CONFIG	CAP. (MBH)	CFM	GPM	ROW	WPD (FT)	WATTS	VOLT	PH	ELECTRICAL			FEEDER	CONN. SIZE	REMARKS
												FLA	DISC	FUSE			
1	TRANE/FORCEFLO-02	SEE PLANS	HORIZONTAL RECESSED	18	315	1.3	2	7.2	84	120	1	3.1	S.T.O.	-	(2#12, #12G) 3/4"C	3/4"	A,C,D
2	TRANE/FORCEFLO-04	SEE PLANS	HORIZONTAL RECESSED	25	410	1.7	2	2.85	110	120	1	3.1	S.T.O.	-	(2#12, #12G) 3/4"C	3/4"	A,C,D
3	TRANE/FORCEFLO-06	SEE PLANS	HORIZONTAL RECESSED	41	700	2.8	2	8.6	162	120	1	3.1	S.T.O.	-	(2#12, #12G) 3/4"C	3/4"	A,C,D
4	TRANE/FORCEFLO-06	SEE PLANS	VERTICAL CABINET	41	700	2.8	2	8.6	162	120	1	3.1	S.T.O.	-	(2#12, #12G) 3/4"C	3/4"	A,B,D
GENERAL NOTES: 1. EAT = 65°F, LAT = 95°F. 2. HEATING WATER: EWT = 150°F, LWT = 130°F, 30% PROPYLENE GLYCOL. 3. JOB SITE ELEVATION = 6,700 FT.																	
REMARK NOTES: A. PROVIDE UNIT MOUNTED DISCONNECT SWITCH. B. PROVIDE FRONT STAMPED INLET AND FRONT STAMPED OUTLET LOUVERS. C. PROVIDE BOTTOM STAMPED INLET AND BOTTOM STAMPED OUTLET LOUVERS. D. PROVIDE WALL MOUNTED THERMOSTAT.																	

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MECHANICAL FAN SCHEDULE																						
CODE	MANUFACTURER/ MODEL NO.	SERVICE	LOCATION	TYPE	MAX CFM	LOW CFM	ESP "W.C. (ALT.)	DRIVE	ELECTRICAL										CTRL	SOUND POWER LwA	DECIBEL LEVEL dBA	REMARKS
									HP	VOLT	PH	FLA	DISC.	FEEDER	FUSE	MTG						
EF 1A.01	GREENHECK/SE1-14-440-VG	LOADING/TRASH	LOWER LEVEL	PROPELLOR	900	-	0.3	B	1/2	120	1	9.8	\$T.O.	(2#12, #12G) 3/4"C	-	2	I	68	57	A,B,D		
SF 1A.02	GREENHECK/BSQ140	MECHANICAL/ICE PLANT SUPPLY	LOWER LEVEL	INLINE	2500	700	1	VFD(B)	1	460	3	2.1	20A/3P	(3#12, #12G) 3/4"C	15A LPS-RK	1	II	-	-	A,B,C		
EF 1A.03	GREENHECK/BSQ160	MECHANICAL/ICE PLANT EXHAUST	LOWER LEVEL	INLINE	2500	700	0.5	VFD(B)	1/2	120	1	9.6	\$T.O.	(2#12, #12G) 3/4"C	-	1	II	-	-	A,B		
GENERAL NOTES:																						
1. DRIVE TYPE: VFD(B) = BELT DRIVE FAN WITH VARIABLE FREQUENCY DRIVE.																						
B = BELT-PROVIDE ADJUSTABLE SHEAVE UNLESS OTHERWISE NOTED.																						
2. SCHEDULED FAN VALUES (CFM, SP AND HP) ARE ACTUAL AT ALTITUDE. MOTOR HP HAS BEEN ADJUSTED FROM SEA LEVEL CONDITIONS FOR OPERATION AT JOB SITE ELEVATION. JOB SITE ELEVATION = 6,700 FT.																						
3. PROVIDE MAGNETIC STARTER WITH AUXILIARY CONTACTS AND HOA SWITCH ON ALL THREE PHASE UNITS EXCEPT WHEN SERVED FROM MOTOR CONTROL CENTER.																						
3. PROVIDE PREMIUM EFFICIENCY MOTORS FOR MOTORS 1 HP AND OVER PER NEMA STANDARD MG1-2003, TABLES 12-12 AND 12-13.																						
MOUNTING (MTG):																						
1. INSTALL FAN WITH FLEXIBLE CONNECTIONS AT DUCT INLET AND OUTLET AND WITH HANGING VIBRATION ISOLATORS.																						
2. INSTALL PER MANUFACTURER'S RECOMMENDATIONS.																						
CONTROL (CTRL):																						
I. INTERLOCK WITH ENERGY RECOVERY VENTILATOR SERVING THE SAME AREA. MONITOR VIA BMS AND PROVIDE MANUAL OVERRIDE SWITCH.																						
II. RUN CONTINUOUSLY AT LOW SPEED FOR ROOM VENTILATION AND PROVIDE MAX CFM OVERRIDE IN REFRIGERANT PURGE MODE, CONTROL VIA DDC SYSTEM.																						
REMARK NOTES:																						
A. PROVIDE BELT AND MOTOR GUARD.																						
B. PROVIDE MOTORIZED BACKDRAFT DAMPER AT ROOF OR WALL PENETRATION.																						
C. PROVIDE A 2" MERV 8 FILTER																						
D. PROVIDE WITH WALL HOUSING, WEATHERHOOD AND OSHA WIRE GUARD.																						

GENERAL DRAWING NOTES

1. WHERE DIFFERENCES APPEAR BETWEEN PLUMBING DRAWINGS AND ARCHITECTURAL DRAWINGS IN THE QUANTITIES AND LOCATIONS OF PLUMBING FIXTURES, THE ARCHITECTURAL DRAWINGS SHALL BE USED FOR PRICING. WHERE NECESSARY, THE CONTRACTOR SHALL USE UNIT PRICING FOR WASTE AND VENT PIPING TO EACH PLUMBING FIXTURE.

GENERAL PLUMBING CONTRACT REQUIREMENTS

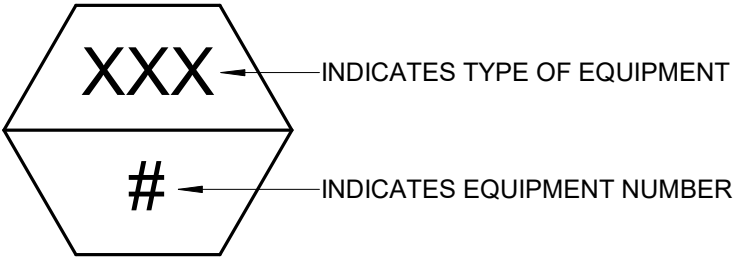
1. PREPARE SHOP DRAWINGS OF ALL NEW WORK (INCLUDING SLEEVE LOCATIONS) TO VERIFY LOCATIONS AND COORDINATION OF WORK BETWEEN TRADES PRIOR TO INSTALLATION.
2. ALL DRAIN GRATES, CLEANOUT COVERS, AND OTHER FINISHED OR EXPOSED COMPONENTS SHALL BE PROTECTED FROM DAMAGE. DAMAGED COMPONENTS SHALL BE REPLACED BY CONTRACTOR AT NO ADDITIONAL COST TO THE CONTRACT.
3. COORDINATE ROUTING OF ALL PLUMBING PIPING BELOW SLAB WITH STRUCTURAL GRADE BEAMS, TIE BEAMS, ETC. ALLOW FOR REROUTING OF PIPING AS REQUIRED.
4. PIPING ROUTING ON DRAWINGS IS GENERALLY DIAGRAMMATIC WITH EFFORTS DURING DESIGN TO AVOID CONFLICTS. CONTRACTOR SHALL COORDINATE ROUTING OF ALL PIPING THROUGH BUILDING WITH STRUCTURAL CONDITIONS. CONTRACTOR COORDINATION DRAWINGS SHALL REFLECT ALL PIPE ROUTING AND PIPING THAT MAY HAVE TO BE SHIFTED OR MOVED TO AVOID CONFLICTS. SHIFTED OR MOVED PIPING SHALL REFLECT NO ADDITIONAL COST TO THE PROJECT.
5. ALL REQUIRED OPENINGS IN CONCRETE BEAMS AND STRUCTURAL WALLS ARE TO BE ACCOMPLISHED USING SLEEVES PROPERLY SIZED FOR THE PIPE THEY SERVE. CORE DRILLING IN BEAMS IS NOT ALLOWED. CORE DRILLING IN PANS IS ALLOWED UPON PRIOR APPROVAL OF ARCHITECT AND STRUCTURAL ENGINEER.
6. ALL HORIZONTAL SANITARY PIPING 2-1/2" AND SMALLER WHETHER BELOW OR ABOVE GRADE SHALL SLOPE AT 1/4"/FT. ALL PIPING 3" AND LARGER SHALL SLOPE AT 1/8"/FT UNLESS OTHERWISE NOTED. ALL STORM AND OVERFLOW PIPING SHALL SLOPE AT 1/8"/FT UNLESS OTHERWISE NOTED. ALL GREASE WASTE PIPING SHALL SLOPE AT 1/4"/FT.
7. REFERENCE CIVIL DIVISION DRAWINGS FOR REQUIRED POINT OF CONNECTION AND INVERT REQUIREMENTS. IN GENERAL, THE POINT OF CONNECTION IS AT A POINT 5 FEET OUTSIDE OF BUILDING FOOTPRINT. CONFORM WORK TO MEET INVERT ELEVATIONS ON CIVIL PLANS.
8. CAP ALL SANITARY AND STORM TEES FOR FUTURE BRANCH PIPING AND STAKE LOCATION OF PIPING FOR CONNECTION TO FUTURE BRANCH LINES.
9. WHERE SHOWN, MINIMIZE THE NUMBER OF JOINTS ON ANY PRESSURIZED PIPING BELOW CONCRETE SLABS. ALL BELOW GRADE PIPING TO BE PRESSURE TESTED AND WITNESSED BY ARCHITECT PRIOR TO BACKFILLING.
10. ALL CLEANOUTS FOR HORIZONTAL STORM DRAINAGE SYSTEM SHALL BE PIPE SIZE OR MAXIMUM 6" FOR LARGER PIPE.
11. IN ADDITION TO THE CLEANOUT LOCATIONS SHOWN ON DRAWINGS, CLEANOUTS SHALL BE PROVIDED IN ACCORDANCE WITH THE LOCAL GOVERNING CODE. ADDITIONAL CLEANOUTS SHALL BE PROVIDED AS FOLLOWS:
- A. EACH RUN OF PIPING WHICH IS MORE THAN 75 FEET IN LENGTH OR FRACTION THEREOF.
- B. HORIZONTAL LINES 5 FEET OR MORE.
- C. HORIZONTAL LINES FOR EACH AGGREGATE CHANGE OF DIRECTION EXCEEDING 135 DEGREES.
- D. AT THE BASE OF ALL SANITARY AND STORM RISERS, ALL VERTICAL CLEANOUTS SHALL BE SIZED TO ACCOMMODATE THE LARGEST PIPE ON THAT BRANCH LINE, BUT NEVER LARGER THAN 4".
- E. ALL GREASE WASTE PIPING SHALL HAVE CLEANOUTS EVERY 50 FEET OR FRACTION THEREOF AND AS NOTED ABOVE.
- F. AT THE END OF FIXTURE BANKS TO INCLUDE WATER CLOSETS, URINALS AND LAVATORIES. CLEAOUT PLUG SHALL BE A MINIMUM OF 24" AFF.
12. NO GAS LINES SHALL BE LOCATED BELOW BUILDING SLAB. ALL GAS PIPING IN AIR PLENUMS SHALL BE WELDED.
13. PROVIDE ISOLATION VALVES ON ALL PIPING SERVING HOSE BIBBS.
14. STANDARD ROOF DRAINAGE IS SIZED AT 3"/HR. OVERFLOW DRAINAGE IS ACCOMPLISHED THROUGH ARCHITECTURAL ROOF SCUPPERS. WHERE OVERFLOW DRAINS ARE USED, THEY WILL BE SIZED USING 3"/HR RATE.
15. WATER HAMMER ARRESTORS (SHOCK ABSORBERS) SHALL BE INSTALLED BETWEEN THE LAST 2 FLUSH VALVE FIXTURES. WHEN THE COLD WATER HEADER IS 20 FEET OR LONGER, A SECOND ARRESTOR SHALL BE INSTALLED HALFWAY DOWN THE HEADER. THE SIZES OF THE ARRESTORS SHALL BE BASED ON PDI SIZING.
16. ALL FLOOR DRAINS IN BUILDING EXCEPT DRAINS IN SHOWERS AND SHOWER AREAS SHALL BE INSTALLED WITH A PROSET TRAP GUARD.
17. ALL DOMESTIC WATER PIPING SERVING TOILET OR RESTROOM GROUPS SHALL BE INSTALLED WITH ISOLATION VALVES IN ORDER TO ISOLATE THESE AREAS WITHOUT CLOSING DOWN ANY OTHER PORTION OF THE BUILDING WATER SUPPLY SYSTEMS. ALL ISOLATION VALVES SHALL BE ACCESSIBLE WITH ACCESS PANELS. MINIMUM ACCESS PANEL SIZE SHALL BE 12"x12". ACCESS PANELS SHALL BE OF THE SAME RATING AS THE STRUCTURAL ELEMENT IN WHICH THEY ARE INSTALLED.
18. ALL GAS PRESSURE REDUCING VALVES SHALL BE PROVIDED WITH VENT PIPING TO ATMOSPHERE.
19. THROUGHOUT THE DRAWINGS, NUMBERS ARE SHOWN IN BRACKETS TO INDICATE QUANTITIES OF UNITS CARRIED WITHIN THE DIFFERENT PIPING SYSTEMS. THEY REPRESENT THE FOLLOWING:
- CW (X)/X] = (CPM)/(CPM)
GAS (X)/X] = (CFH)/(CFH)
SAN (X)/X] = (DFU)/(DFU)
VENT (X)/X] = (DFU)/(DFU)
STOD (X)/X] = (FT2)/(FT2)
- FOR CALCULATION PURPOSES OF ALL PIPE SIZES, VALUES SHOWN ARE WITHIN 10 PERCENT OF ACTUAL LOAD VALUES.
20. ALL EQUIPMENT AND PIPING SHALL BE BRACED FOR SEISMIC REQUIREMENTS APPLICABLE FOR SEISMIC ZONE REQUIREMENTS FOR THIS PROJECT.
21. REFER TO GENERAL MECHANICAL CONTRACT REQUIREMENT NOTES ON MECHANICAL DRAWINGS FOR GENERAL PIPING HEAT TRACE INSTALLATION REQUIREMENTS.
22. PROVIDE DIELECTRIC FITTINGS AT ALL CONNECTIONS BETWEEN DISSIMILAR METALS AND AS SHOWN ON DRAWINGS.
23. ALL TEMPERING VALVES TO BE SET FOR 110° F WATER TEMPERATURE MAXIMUM UNLESS OTHERWISE NOTED.
24. PROVIDE HEAT TRACE IN LOCATIONS SHOWN, AS REQUIRED BY SPECIFICATIONS, AND TO THE FOLLOWING SYSTEMS WHEN EXPOSED TO FREEZING CONDITIONS:
- A. DOMESTIC COLD WATER
B. DOMESTIC HOT WATER
C. DOMESTIC HOT WATER REIRC
D. SANITARY
E. STORM
- ALL HEAT TRACED PIPE SHALL BE INSULATED PER SPECIFICATIONS. COORDINATE ALL HEAT TRACING AND REQUIRED CIRCUITS WITH ELECTRICAL DRAWINGS AND ELECTRICAL CONTRACTOR.
25. PROVIDE WATER HAMMER ARRESTORS FOR ALL FIXTURES/EQUIPMENT THAT HAVE QUICK CLOSING VALVES TO INCLUDE:
- A. WATER CLOSETS AND URINAL FLUSH VALVES
B. ELECTRONIC FAUCETS
C. REFRIGERATOR ICE MAKERS
D. DISHWASHERS
E. MECHANICAL MAKE-UP
26. REFER TO MECHANICAL PLANS FOR ALL EQUIPMENT REQUIRING MAKE-UP WATER. PROVIDE A REDUCED PRESSURE BACKFLOW FOR EACH REQUIRED LINE.
27. REFER TO LANDSCAPE PLANS FOR IRRIGATION REQUIREMENTS. WHEN AN IRRIGATION TAP IS REQUIRED OFF THE DOMESTIC WATER SERVICE, PROVIDE THE RECOMMENDED LINE SIZE WITH A REDUCED PRESSURE BACKFLOW PREVENTER.

PLUMBING LEGEND

(NOT ALL SYMBOLS LISTED BELOW ARE BEING USED IN THIS SET OF PLUMBING DRAWINGS)

SYMBOL	ABBR	DESCRIPTION	SYMBOL	ABBR	DESCRIPTION	SYMBOL	ABBR	DESCRIPTION
MEDICAL			FITTINGS:			SYMBOLS:		
	MA	MEDICAL AIR			ELBOW UP			SECTION NO.
	O	OXYGEN			ELBOW DOWN			SECTION VIEW SHEET NO.
	VAC	VACUUM			TEE UP			DETAIL DESIGNATION
	NO	NITROUS OXIDE			TEE DOWN			EQUIPMENT DESIGNATION
	G	NAT. GAS OUTLET			PIPE CAP OR PLUG			SHEET KEY NOTES
	O	OXYGEN OUTLET		GC	GAS COCK		POC	POINT OF CONN. (CONN. NEW TO EXISTING)
	V	VACUUM OUTLET		CO	CLEANOUT PLUG		POD	POINT OF DISCONNECTION
	MA	MEDICAL AIR OUTLET		HB WH	HOSE BIBB WALL HYDRANT			ARROW INDICATES DIRECTION OF FLOW
	MA	MED AIR OUTLET		VB	VACUUM BREAKER		UP	RISE IN DIRECTION OF FLOW
SPRINKLER HEADS				RD	ROOF DRAIN		DN	DROP IN DIRECTION OF FLOW
		EXISTING SPRINKLER HEAD TO REMAIN		OD	OVERFLOW ROOF DRAIN		TB DN	THRUST BLOCK DOWN
		EXISTING SPRINKLER HEAD TO RELOCATED		DSN	DOWNSPOUT NOZZLE		AFG TOP	ABOVE FIN. FLOOR ABOVE FIN. GRADE TOP
		EXISTING SPRINKLER HEAD TO NEW LOCATION NEW SPRINKLER HEAD TO MATCH EXISTING		SA	SHOCK ARRESTOR W/BALL VALVE		BOP I.E.	BOT. OF PIPE (AFF) I.E. INVERT ELEVATION
PIPING:				FD	FLOOR DRAIN		VBF	VENT BELOW FLOOR
	(E)	EXISTING PIPING		AD	AREA DRAIN		NTS	NOT TO SCALE
	(E)	EXISTING PIPING TO BE REMOVED		FCO	FLOOR CLEANOUT		(E)	EXISTING
	CW	DOMESTIC COLD WATER		GCO	GRADE CLEANOUT		(N) (R)	NEW REMOVE OR RELOCATE
	HW	DOMESTIC HOT WATER		WCO	WALL CLEANOUT			
	T	TEMPERED WATER		CO	CLEANOUT PLUG			
	HWC	DOMESTIC HOT WATER CIRCULATING		VTR	VENT THRU ROOF			
	SAN	SANITARY WASTE ABOVE FLOOR	VALVES:					
	SAN	SANITARY WASTE BELOW FLOOR		GV	GATE VALVE			
	GW	GREASE WASTE BELOW FLOOR		OS&Y	OUTSIDE STEM AND YOKE			
	V	SANITARY VENT		DV	DRAIN VALVE W/ HOSE END CONN.			
	ST	STORM PIPING ABOVE FLOOR			BALL VALVE W/ HOSE CONNECTION			
	ST	STORM PIPING BELOW FLOOR		CV	CHECK VALVE WITH FLOW DIRECTION			
	OD	STORM OVERFLOW ABOVE FLOOR		PRV	PRESSURE REDUCING VALVE			
	OD	STORM OVERFLOW BELOW FLOOR		SV	SOLENOID VALVE			
	G	NATURAL GAS		FCV	AUTO FLOW CONTROL VALVE W/ TEST PORT			
	F	FIRE		CS	CIRCUIT SETTER			
	DR	EQUIP. DRAIN		GLV	GLOBE VALVE (STRAIGHT PATTERN)			
	A	COMPRESSED AIR		GLV	GLOBE VALVE (ANGLE PATTERN)			
		PIPE SIZE/ PIPE TYPE		BFV	BUTTERFLY VALVE			
				BV	BALL VALVE			
FITTINGS:				TCV	AUTO TEMP CONTROL VALVE, 2-WAY			
	EJ	EXPANSION JOINT		TCV	AUTO TEMP CONTROL VALVE, 3-WAY			
	U	UNION		PV	PLUG VALVE			
		THERMOMETER W/THERMOWELL		TPR	TEMP/PRESSURE RELIEF VALVE			
	AV	AIR VENT			VALVE IN RISER			
	FC	FLEXIBLE PIPE CONNECTOR		STR	STRAINER W/ BLOW-OFF & CAPPED HOSE, END CONNECTION			
	FS	FLOW SWITCH			STEAM TRAP			
	PS	PRESSURE SWITCH						
	PG	PRESSURE GAUGE W/GAUGE COCK						

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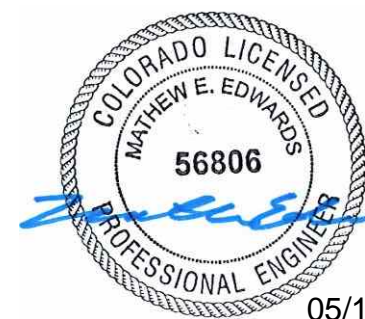


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Date	Description
2021.05.19	BP3: PROMENADE - ISSUE FOR RECORD
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05/18/2021

Project Name

SSRC | BASE AREA
IMPROVEMENTS

Project Number

003.7835.000

Description

PLUMBING LEGEND

Scale

1/8" = 1'-0"

1A-P0.000

PLUMBING FIXTURE SCHEDULE											
GENERAL NOTES: 1. PLUMBING DESIGN AND SIZES ARE BASED ON THE 2018 INTERNATIONAL PLUMBING CODE. 2. ALL EXPOSED PIPING SERVING PLUMBING FIXTURES THAT MAY BE USED FOR ADA PURPOSES SHALL HAVE TRAPS AND SUPPLIES INSULATED PER ADA REQUIREMENTS. 3. ALL FIXTURES ARE WHITE UNLESS OTHERWISE NOTED. 4. ALL PUBLIC ACCESS LAVATORY AND SINKS WILL HAVE AN ASSE 1070 APPROVED TEMPERING VALVE INSTALLED.											
CODE	FIXTURE	DESCRIPTION	MIN CW CONN	MIN HW CONN	MIN SAN CONN	MIN VENT CONN	MANUFACTURER	FIXTURE MODEL NUMBER	MANUFACTURER	FAUCET / FLUSH VALVE MODEL NUMBER	REMARKS
GH-1	GROUND HYDRANT	SELF DRAINING, FREEZELESS GROUND HYDRANT WITH BRASS BOX WITH DRAIN HOLE, VACUUM BREAKER, AND LOOSE KEY OPERATION.	3/4"	-	-	-	WOODFORD	Y95	-	-	ANTI-SIPHON, LOOSE KEY; AUTO DRAINING, ASSE 1052; COORDINATE STEM LENGTH WITH INSTALLATION LOCATION.
DWET-1	DOMESTIC WATER EXPANSION TANK	16" DIA. x 19" TALL FLOOR MOUNTED EXPANSION TANK WITH POLYPROPYLENE LINER AND DIAPHRAGM, 55 PSI FACTORY PRE-CHARGE; 14 GALLON WITH 0.64 ACCEPTANCE FACTOR.	3/4"	-	-	-	AMTROL	ST-30VC	-	-	-
AD-1	AREA DRAIN	TWO-STAGE AREA DRAIN; CAST IRON TOP BODY WITH 8" SQUARE NICKEL-BRONZE TOP; PERFORATED STAINLESS STEEL EXTENSION; CAST IRON BOTTOM BODY WITH FLASHING RING AND FLANGE, GRAVEL STOP, AND ALUMINUM DOME.	-	-	-	-	WADE	3358-1-DF-XNH	-	-	COORDINATE REQUIRED EXTENSIONS WITH INSTALLATION LOCATION PRIOR TO ORDERING, COORDINATE OUTLET SIZE WITH EACH LOCATION, RE: PLANS.
FD-1	FLOOR DRAIN	CAST IRON BODY FLOOR DRAIN WITH FLASHING CLAMP WITH WEEP HOLES; 5" ROUND, ADJUSTABLE, NICKEL-BRONZE TOP.	-	-	SEE PLANS	SEE PLANS	JAY R. SMITH	2005Y-A-NB	-	-	-
FS-1	FLOOR SINK	12-1/2" SQUARE x 8" DEEP CAST IRON BODY RECEPTOR WITH ACID RESISTANT COATED INTERIOR AND FLASHING CLAMP WITH WEEP HOLES; SECURED 1/2 GRATE.	-	-	SEE PLANS	SEE PLANS	JAY R. SMITH	3150Y-PDBS-12	-	-	-
HB-1	HOSE BIBB	WALL MOUNTED COLD WATER WALL FAUCET WITH METAL HANDLE, VACUUM BREAKER, AND 3/4" HOSE CONNECTION.	3/4"	-	-	-	WOODFORD	24	-	-	-
MSB-1	MOP SINK	24" x 24" x 10" MOLDED STONE MOP SERVICE BASIN WITH STAINLESS STEEL WALL GUARDS; WALL MOUNTED TWO HANDLE FAUCET WITH VACUUM BREAKER, PAIL HOOK, AND 3/4" HOSE THREAD OUTLET.	3/4"	3/4"	3"	2"	FIAT	MSB2424	FIAT	830AA	PROVIDE FIAT MODEL MSG2424 WALL GUARDS, 832AA HOSE AND BRACKET, AND 889CC MOP HANGER.
TG-1	TRAP GUARD	BUTYL RUBBER, QUAD CLOSE, TRAP SEAL DEVICE; ASSE 1072.	-	-	-	-	JAY R. SMITH	2692 SERIES	-	-	PROVIDE IN ALL FLOOR DRAINS AND FLOOR SINKS CONNECTED TO THE SANITARY WASTE SYSTEM.
WH-1	WALL HYDRANT	AUTOMATIC DRAINING, FREEZELESS, RECESSED BOX WALL HYDRANT WITH LOCKING BOX, LOOSE KEY HANDLE, AND INTEGRAL DUAL CHECK BACKFLOW PREVENTER.	3/4"	-	-	-	WOODFORD	B67	-	-	COORDINATE REQUIRED STEM LENGTH WITH WALL THICKNESS AT EACH INSTALLATION LOCATION.
EEW-1	EMERGENCY EYE WASH STATION	WALL MOUNTED EMERGENCY EYE WASH WITH MANUALLY FILLED 7 GALLON TANK CAPABLE OF FLOWING 0.4 GPM FOR 15 MINUTES.	-	-	-	-	BRADLEY	S19-921	-	-	-

SUMP PUMP SCHEDULE																
GENERAL NOTES: 1. PROVIDE CHECK VALVE AND SHUTOFF VALVE ON EACH PUMP. 2. PROVIDE PREMIUM EFFICIENCY MOTORS (RELIANCE E+ OR EQUIVALENT) WITH MAGNETIC STARTER AND DRY CONTACTS. 3. ALL UNITS SHALL HAVE INTEGRAL DISCONNECT AND OVERCURRENT/SHORT CIRCUIT PROTECTION.										REMARK NOTES: A. PROVIDE POURED IN PLACE SUMP IN BOTTOM OF ELEVATOR SHAFT. B. PROVIDE TYPE 4X SIMPLEX CONTROL PANEL. C. PROVIDE STANDARD TETHERED FLOAT SWITCH.						
CODE	MANUFACTURER	MODEL NUMBER	SERVICE	TYPE	NO. OF PUMPS	FLOW (GPM)	PRESSURE (FT)	DISCHARGE (IN)	RPM	POWER(HP)	VOLT	ELECTRICAL				REMARKS
ESP-1	WEIL	1411	ELEVATOR SHAFT	SIMPLEX SUBMERSIBLE	1	50.00	20	2"	1750	0.5	460	3	3.40	FUSE	DISC.	FEEDER

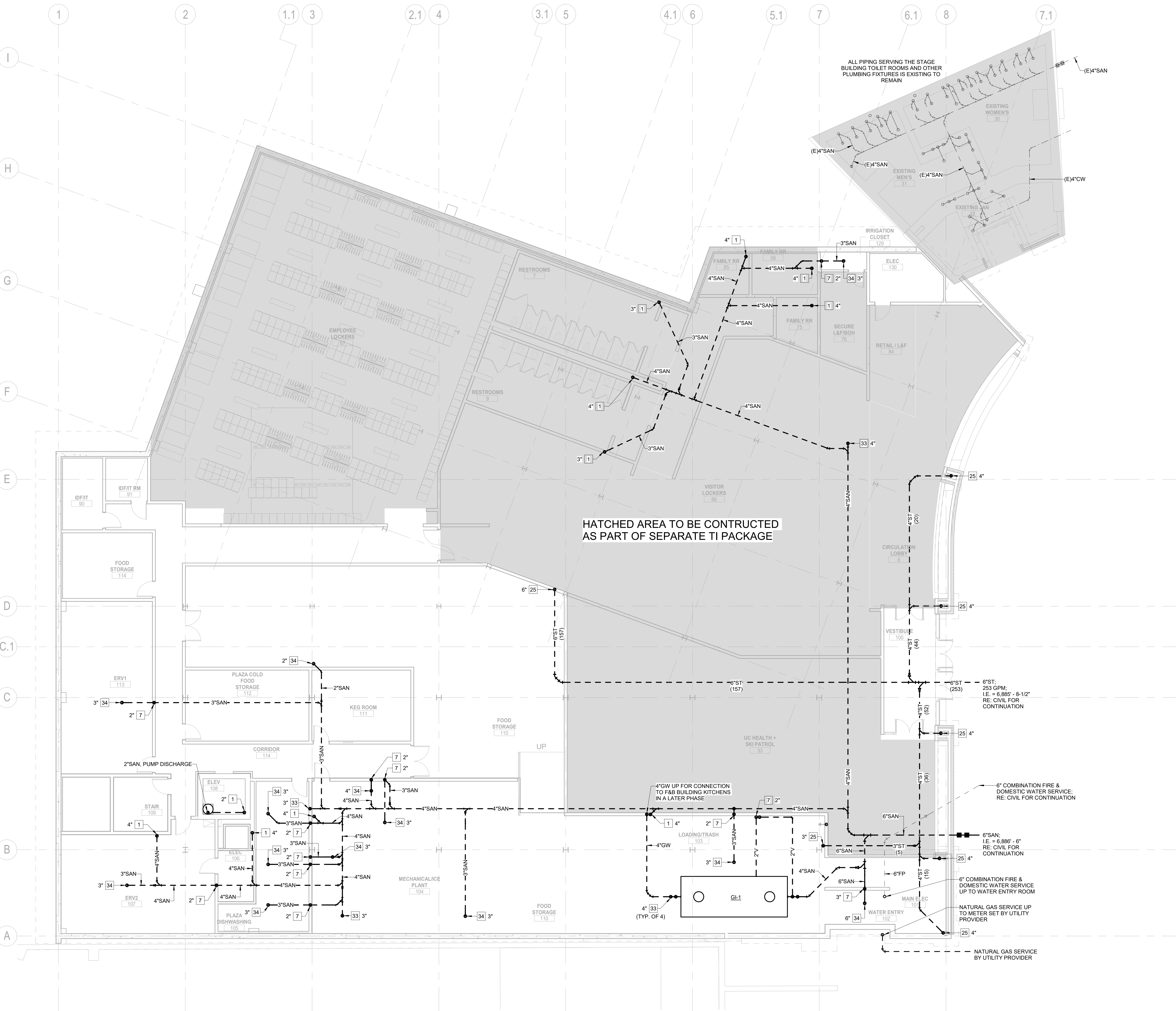
ELECTRIC WATER HEATER SCHEDULE													
GENERAL NOTES: 1. ROUTE ALL T&P VALVES TO APPROVED RECEPTORS.							REMARK NOTES: A. PROVIDE WITH IMMERSION THERMOSTATS WITH CONTACTORS. B. FOUR 15KW ELEMENTS OPERATING SIMULTANEOUSLY. C. SET TO 140°F DISCHARGE.						
CODE	MANUFACTURER	MODEL NUMBER	SERVICE	LOCATION	RECOVERY (GPH@100TR)	CAPACITY (GAL)	POWER(KW)	VOLT	PH	FLA	FUSE	DISC.	FEEDER
EWH-1	BRADFORD WHITE	VR-150-60	ZAMBONI GARAGE	ZAMBONI GARAGE	246	150	60.00	480	3	72.00			
EWH-2	BRADFORD WHITE	VR-150-60	ZAMBONI GARAGE	ZAMBONI GARAGE	246	150	60.00	480	3	72.00			

GREASE INTERCEPTOR SCHEDULE										
GENERAL NOTES: 1. GT-1 HAS INTREGRAL FLOW CONTROL 2. UNITS SHALL MEET ALL REQUIREMENTS OF LOCAL AUTHORITY HAVING JURISDICTION.						REMARK NOTES: A. PREFABBED, DESIGN LOAD H-20 TRAFFIC				
CODE	DESCRIPTION	SERVICE	MANUFACTURER	MODEL NUMBER	WEIGHT (LBS)	CAPACITY (GAL)	LENGTH (IN)	WIDTH (IN)	HEIGHT (IN)	REMARKS
GI-1	TWO-COMPARTMENT, PRECAST CONCRETE GREASE INTERCEPTOR	PLAZA F&B BUILDING	COPELAND	5000	51300.0	5000	252.0	96.0	84.0	A

Gensler

△	Date	Description
-	2021.05.19	BP3: PROMENADE - ISSUE FOR RECORD AND PERMIT

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GENERAL NOTES:

1. REQUIRED PIPE SIZES ARE SHOWN NEXT TO KEY NOTE.
2. PROVIDE BALL VALVE SHUTOFF AND 12\"/>
3. ALL PIPING INSTALLED FOR FUTURE CONNECTION SHALL BE STUBBED UP MINIMUM 18\"/>
4. ALL INVERT ELEVATIONS (IE) SHALL BE FIELD VERIFIED BEFORE ANY PIPING IS INSTALLED.
5. ALL CIRCUIT SETTERS SHALL BE SET AT 1.0 GPM UNLESS NOTED OTHERWISE.

KEY NOTES:
(SOME KEY NOTES MAY NOT APPLY TO THIS SHEET)

- | | |
|----|--|
| 1 | SANITARY PIPING UP |
| 2 | SANITARY PIPING DN |
| 3 | SANITARY PIPING UP & DN |
| 4 | GW PIPING UP |
| 5 | GW PIPING DN |
| 6 | GW PIPING UP & DN |
| 7 | SANITARY VENT UP |
| 8 | SANITARY VENT DN |
| 9 | SANITARY VENT UP & DN |
| 10 | CW PIPING UP |
| 11 | CW PIPING DN |
| 12 | CW PIPING UP & DN |
| 13 | HW PIPING UP |
| 14 | HW PIPING DN |
| 15 | HW PIPING UP & DN |
| 16 | HWC PIPING UP |
| 17 | HWC PIPING DN |
| 18 | HWC PIPING UP & DN |
| 19 | CW & HW PIPING UP |
| 20 | CW & HW PIPING DN |
| 21 | CW & HW PIPING UP & DN |
| 22 | GAS PIPING UP |
| 23 | GAS PIPING DN |
| 24 | GAS PIPING UP & DN |
| 25 | STORM PIPING UP |
| 26 | STORM PIPING DN |
| 27 | STORM PIPING UP & DN |
| 28 | OVERFLOW PIPING UP |
| 29 | OVERFLOW PIPING DN |
| 30 | OVERFLOW PIPING UP & DN |
| 31 | OVERFLOW PIPING DOWN AND THRU WALL TO DOWNSPOUT NOZZLE +12\"/> |
| 32 | SANITARY PIPING UP TO PLUMBING FIXTURES |
| 33 | PIPING UP TO CLEANOUT |
| 34 | PIPING UP TO DRAIN |

Date	Description
2021.05.19	BP3: PROMENADE - ISSUE FOR RECORD AND PERMIT

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07/10/2021

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05/18/2021

Project Name

SSRC | BASE AREA IMPROVEMENTS

Project Number

003.7835.000

Description

PROMENADE - PLUMBING UNDERGROUND PLAN - LEVEL 00

Scale

1/8" = 1'-0"

1A-P1.199

GENERAL NOTES:

1. REQUIRED PIPE SIZES ARE SHOWN NEXT TO KEY NOTE.
2. PROVIDE BALL VALVE SHUTOFF AND 12"X12" ACCESS PANEL AT EACH SHOCK ABSORBER (SA) PANEL LOCATION TO BE VERIFIED AND COORDINATED WITH ARCHITECT.
3. ALL PIPING INSTALLED FOR FUTURE CONNECTION SHALL BE STUBBED UP MINIMUM 18" FOR FUTURE EXTENSION.
4. ALL INVERT ELEVATIONS (E) SHALL BE FIELD VERIFIED BEFORE ANY PIPING IS INSTALLED.
5. ALL CIRCUIT SETTERS SHALL BE SET AT 1.0 GPM UNLESS NOTED OTHERWISE.

KEY NOTES:

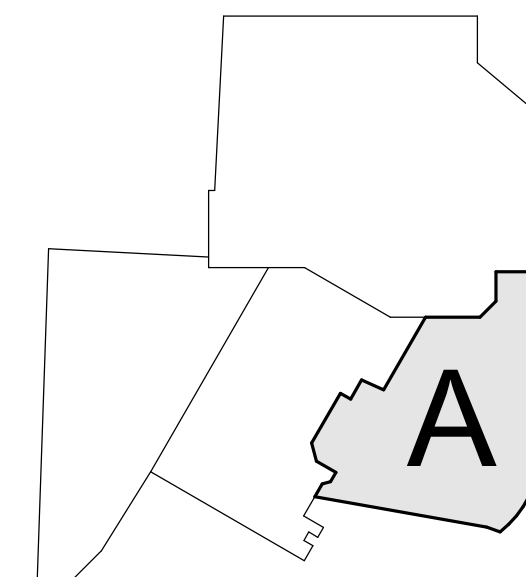
(SOME KEY NOTES MAY NOT APPLY TO THIS SHEET)

- | | |
|----|--|
| 1 | SANITARY PIPING UP |
| 2 | SANITARY PIPING DN |
| 3 | SANITARY PIPING UP & DN |
| 4 | GW PIPING UP |
| 5 | GW PIPING DN |
| 6 | GW PIPING UP & DN |
| 7 | SANITARY VENT UP |
| 8 | SANITARY VENT DN |
| 9 | SANITARY VENT UP & DN |
| 10 | CW PIPING UP |
| 11 | CW PIPING DN |
| 12 | CW PIPING UP & DN |
| 13 | HW PIPING UP |
| 14 | HW PIPING DN |
| 15 | HW PIPING UP & DN |
| 16 | HWC PIPING UP |
| 17 | HWC PIPING DN |
| 18 | HWC PIPING UP & DN |
| 19 | CW & HW PIPING UP |
| 20 | CW & HW PIPING DN |
| 21 | CW & HW PIPING UP & DN |
| 22 | GAS PIPING UP |
| 23 | GAS PIPING DN |
| 24 | GAS PIPING UP & DN |
| 25 | STORM PIPING UP |
| 26 | STORM PIPING DN |
| 27 | STORM PIPING UP & DN |
| 28 | OVERFLOW PIPING UP |
| 29 | OVERFLOW PIPING DN |
| 30 | OVERFLOW PIPING UP & DN |
| 31 | OVERFLOW PIPING DOWN AND THRU WALL TO DOWNSPOUT NOZZLE 12" AFG |
| 32 | SANITARY PIPING UP TO PLUMBING FIXTURES |
| 33 | PIPING UP TO CLEANOUT |
| 34 | PIPING UP TO DRAIN |

Date	Description
2021.05.19	BP3: PROMENADE - ISSUE FOR RECORD PERMIT

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07/10/2021

KEY PLAN



Seal / Signature



Project Name

SSRC | BASE AREA IMPROVEMENTS

Project Number

003.7835.000

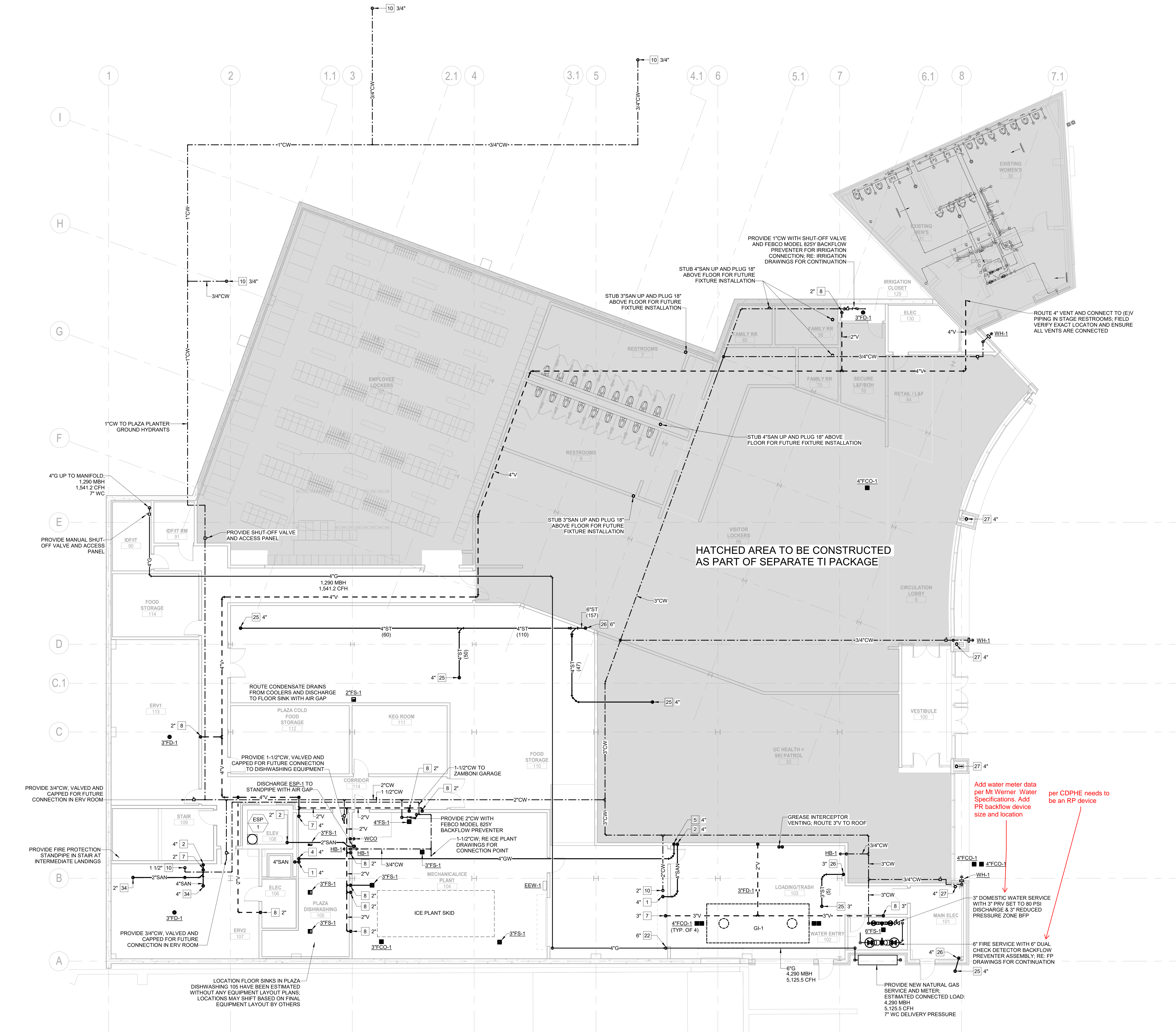
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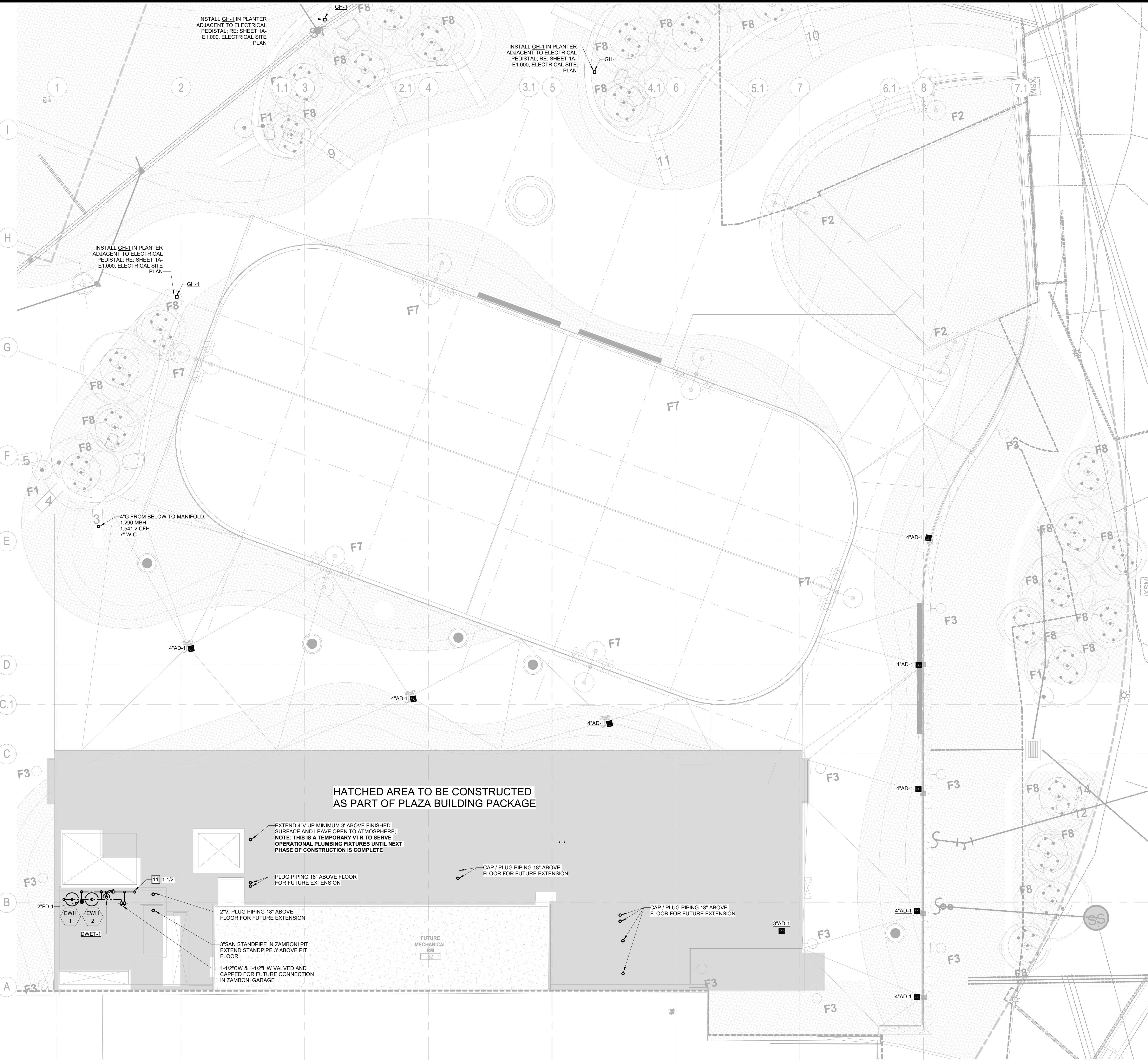
PROMENADE - PLUMBING PLAN - LEVEL 00

Scale

1/8" = 1'-0"

1A-P1.200





GENERAL NOTES:

1. REQUIRED PIPE SIZES ARE SHOWN NEXT TO KEY NOTE.

2. PROVIDE BALL VALVE SHUTOFF AND 12"X12" ACCESS PANEL AT EACH SHOCK ABSORBER (SA). PANEL LOCATION TO BE VERIFIED AND COORDINATED WITH ARCHITECT.

3. ALL PIPING INSTALLED FOR FUTURE CONNECTION SHALL BE STUBBED UP MINIMUM 4" FOR FUTURE EXTENSION.

4. ALL INVERT ELEVATIONS (IE) SHALL BE FIELD VERIFIED BEFORE ANY PIPING IS INSTALLED.

5. ALL CIRCUIT SETTERS SHALL BE SET AT 1.0 GPM UNLESS NOTED OTHERWISE.

KEY NOTES:
(SOME KEY NOTES MAY NOT APPLY TO THIS SHEET)

- 1 SANITARY PIPING UP
- 2 SANITARY PIPING DN
- 3 SANITARY PIPING UP & DN
- 4 GW PIPING UP
- 5 GW PIPING DN
- 6 GW PIPING UP & DN
- 7 SANITARY VENT UP
- 8 SANITARY VENT DN
- 9 SANITARY VENT UP & DN
- 10 CW PIPING UP
- 11 CW PIPING DN
- 12 CW PIPING UP & DN
- 13 HW PIPING UP
- 14 HW PIPING DN
- 15 HW PIPING UP & DN
- 16 HWC PIPING UP
- 17 HWC PIPING DN
- 18 HWC PIPING UP & DN
- 19 CW & HW PIPING UP
- 20 CW & HW PIPING DN
- 21 CW & HW PIPING UP & DN
- 22 GAS PIPING UP
- 23 GAS PIPING DN
- 24 GAS PIPING UP & DN
- 25 STORM PIPING UP
- 26 STORM PIPING DN
- 27 STORM PIPING UP & DN
- 28 OVERFLOW PIPING UP
- 29 OVERFLOW PIPING DN
- 30 OVERFLOW PIPING UP & DN
- 31 OVERFLOW PIPING DOWN AND THRU WALL TO DOWNSPOUT NOZZLE 4"12" AFG
- 32 SANITARY PIPING UP TO PLUMBING FIXTURES
- 33 PIPING UP TO CLEANOUT
- 34 PIPING UP TO DRAIN



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Date	Description
2021.05.19	BP3: PROMENADE - ISSUE FOR RECORD AND PERMIT

RCRBD
Record Set
TC
07/10/2021

Seal / Signature



05/18/2021

Project Name

SSRC | BASE AREA IMPROVEMENTS

Project Number

003.7835.000

Description

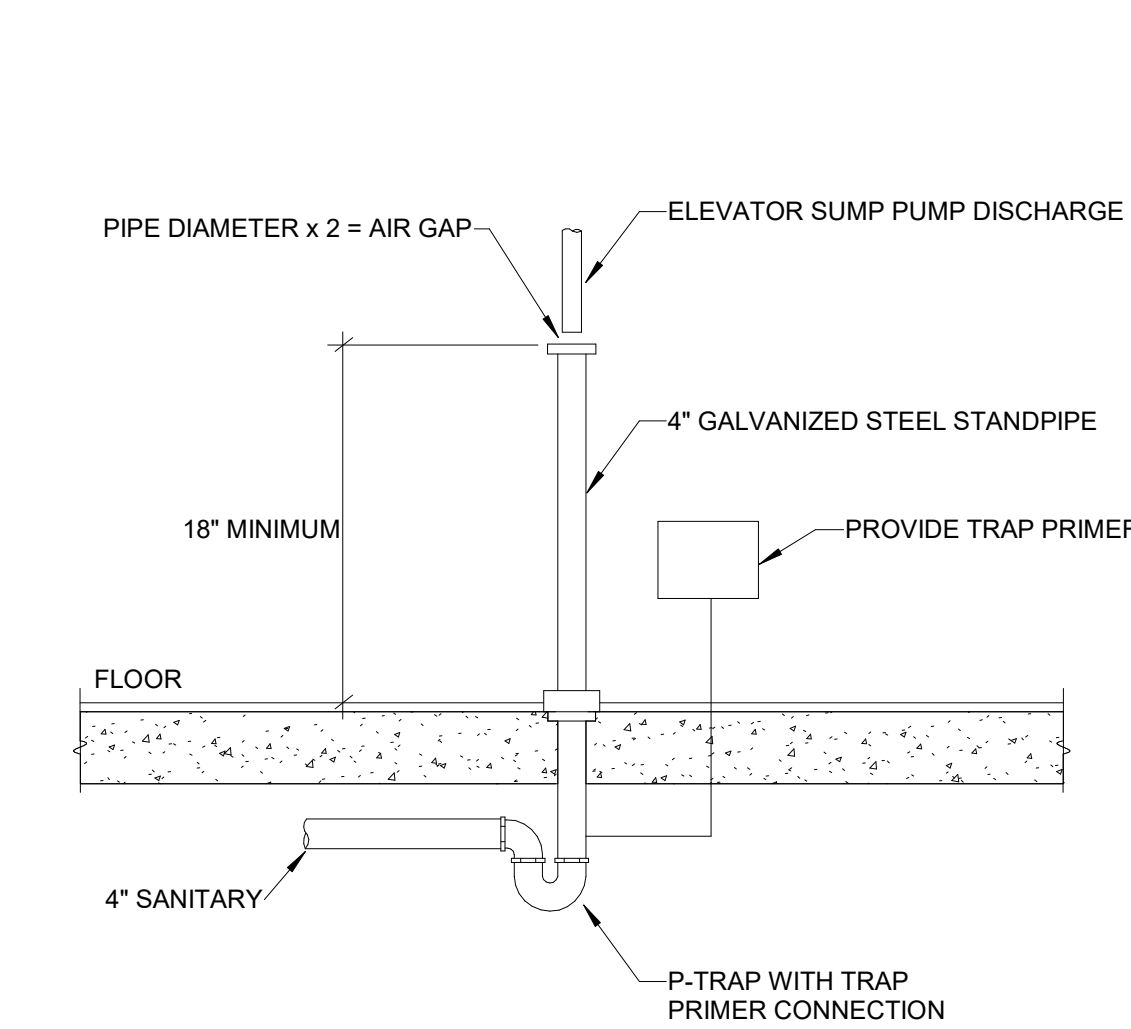
PROMENADE - PLUMBING PLAN - LEVEL 01

Scale

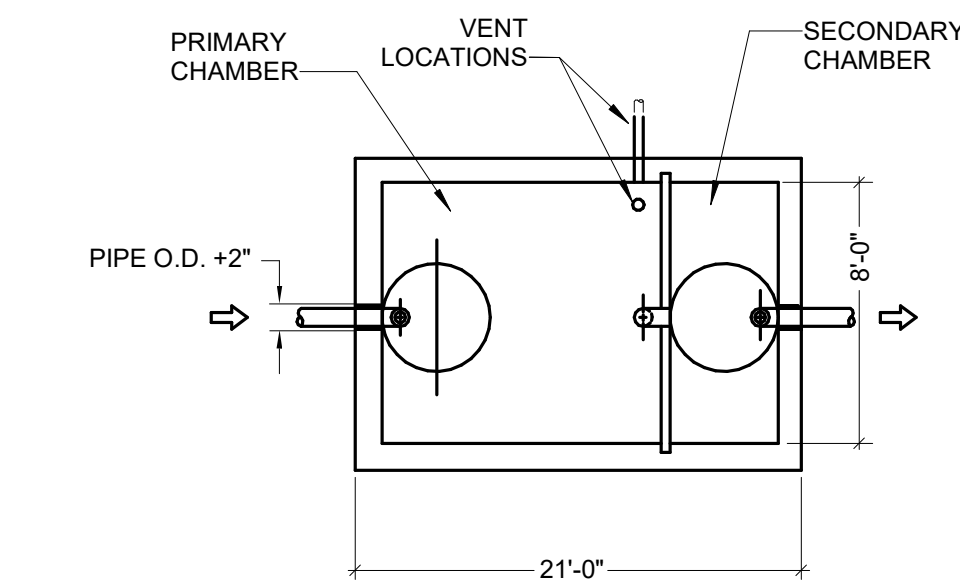
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1A-P1.201

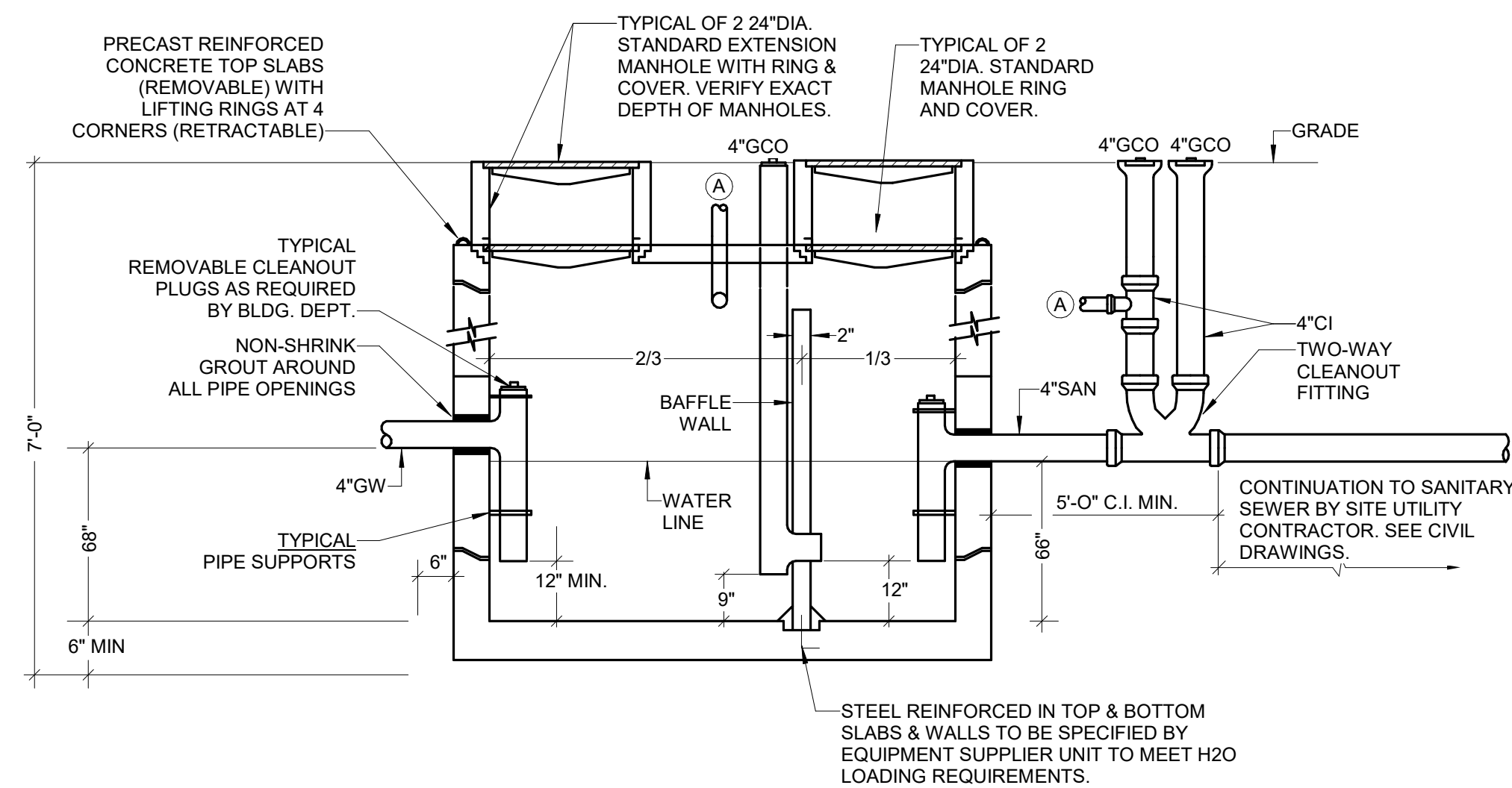
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9 STANDPIPE DETAIL
NO SCALE



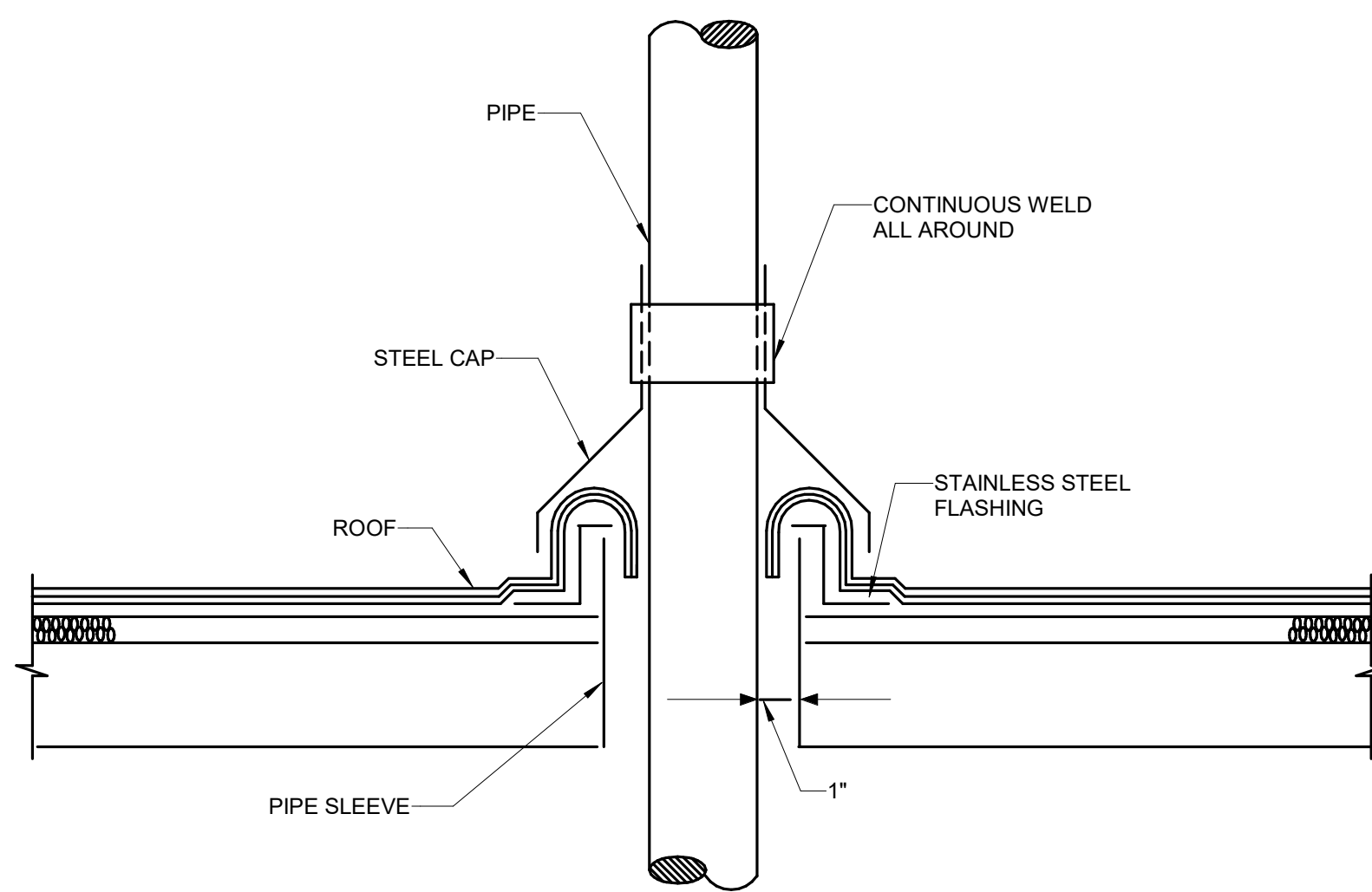
PLAN



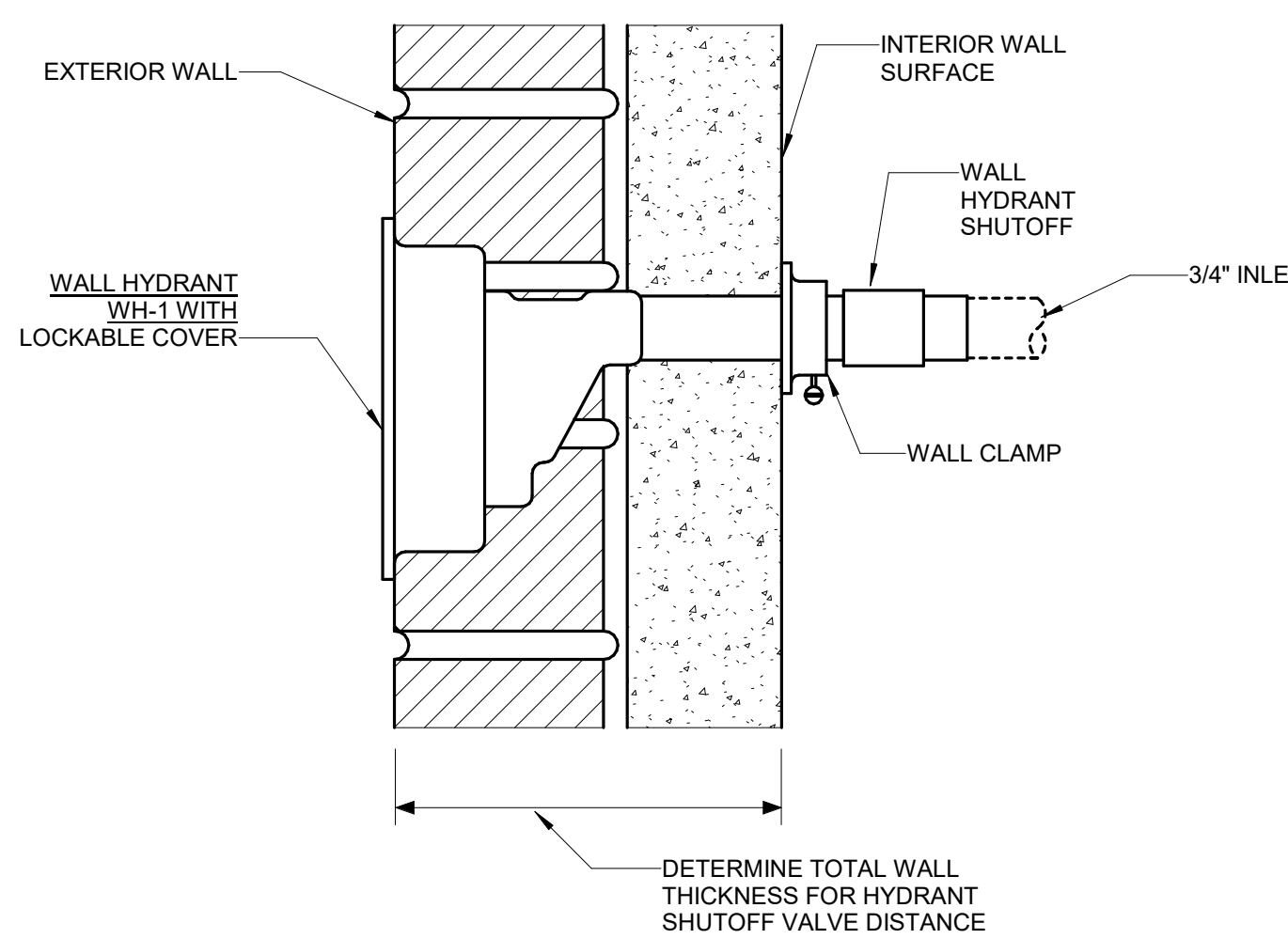
(A) (2) 2\"/>

DETAIL SHOWN IS FOR RECOMMENDED CONFIGURATION. ACTUAL CONFIGURATION SHALL BE AS REQUIRED BY LOCAL AUTHORITY.

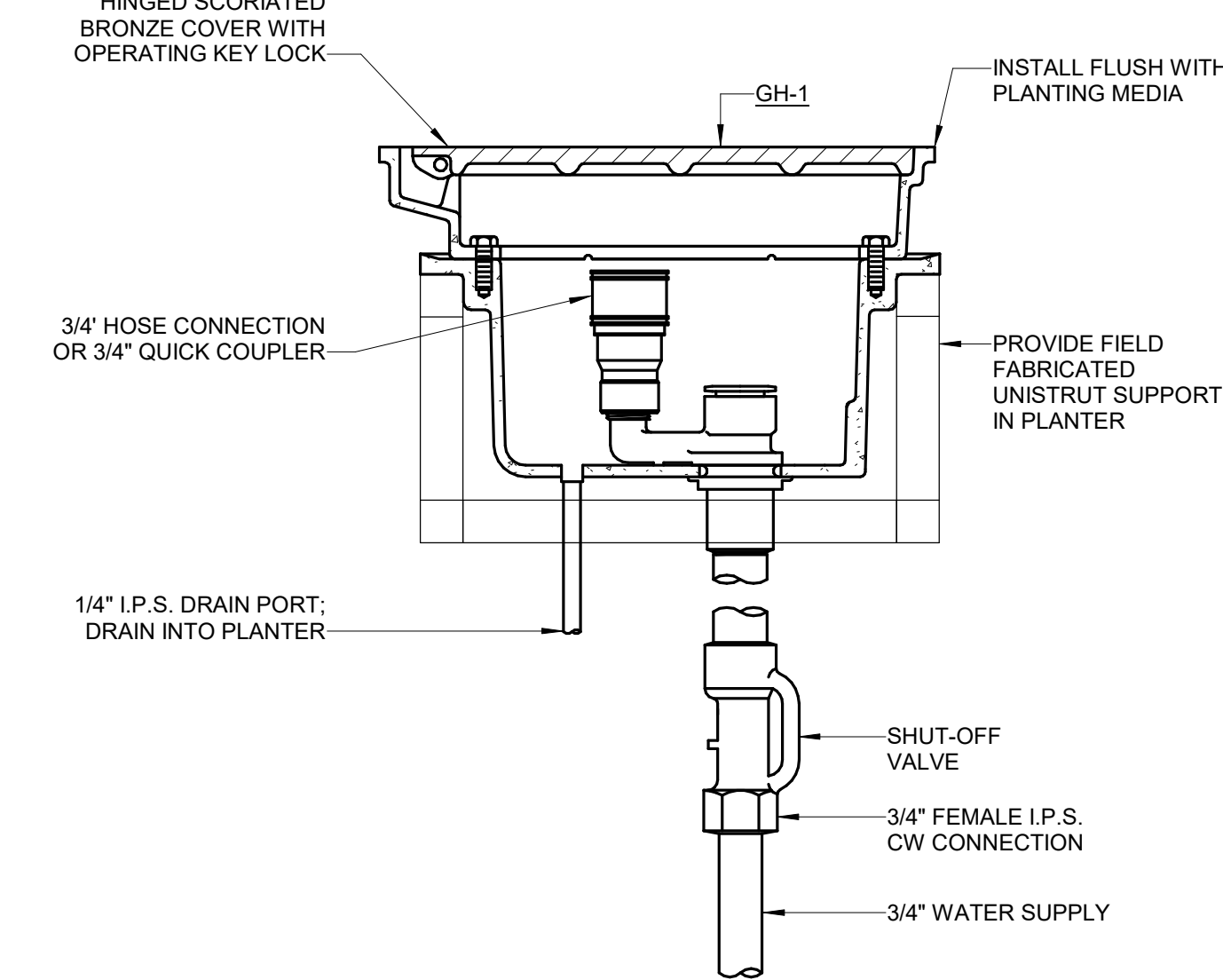
10 TWO COMPARTMENT GREASE INTERCEPTOR DETAIL
NO SCALE



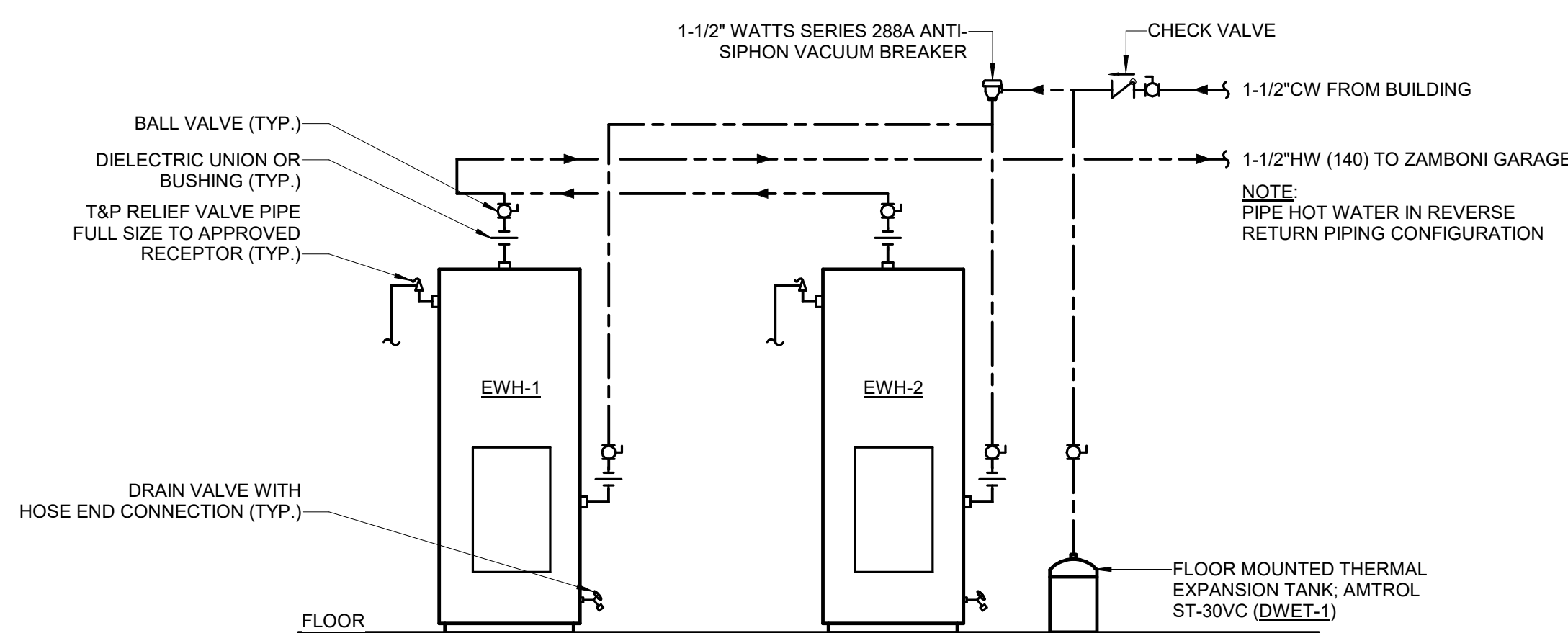
5 UNINSULATED PIPE THRU ROOF DETAIL
NO SCALE



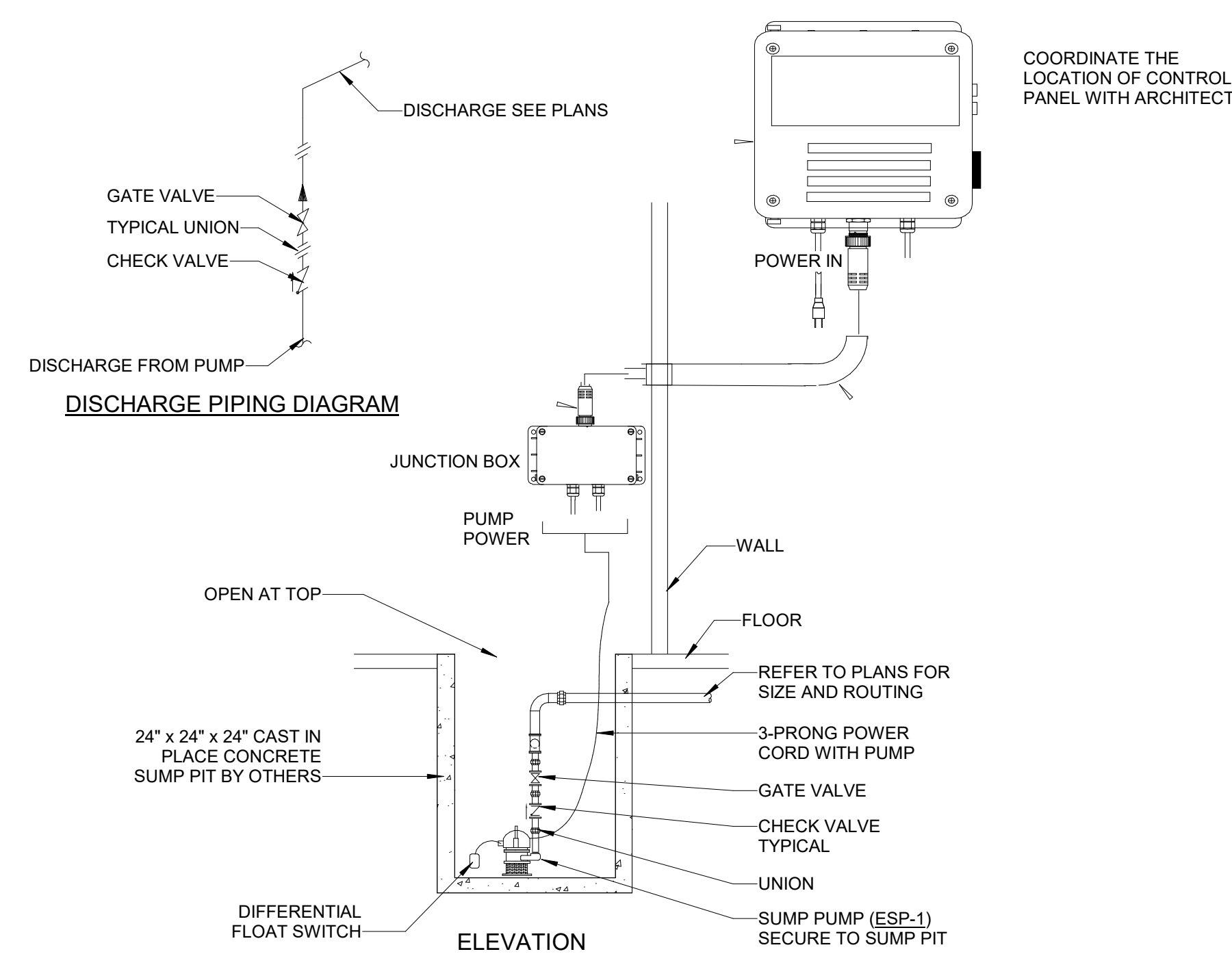
6 FREEZEPROOF WALL HYDRANT DETAIL
NO SCALE



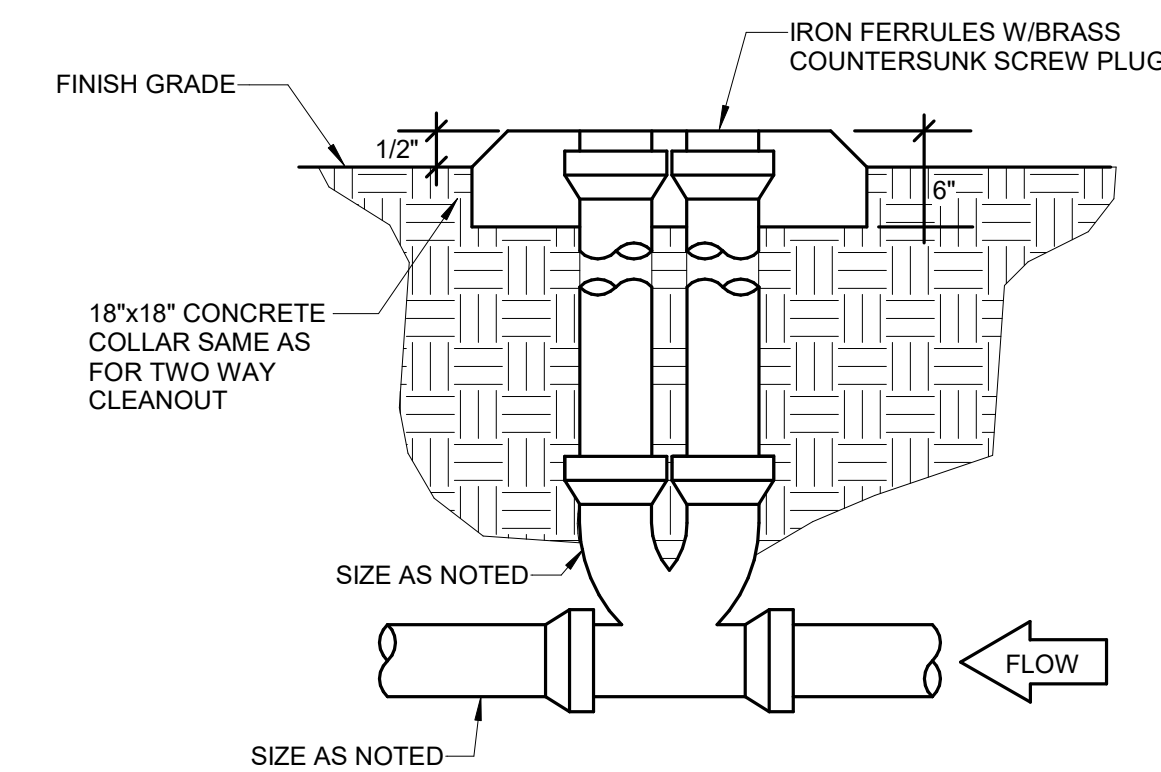
7 GROUND HYDRANT DETAIL (IN PLANTER INSTALLATION)
NO SCALE



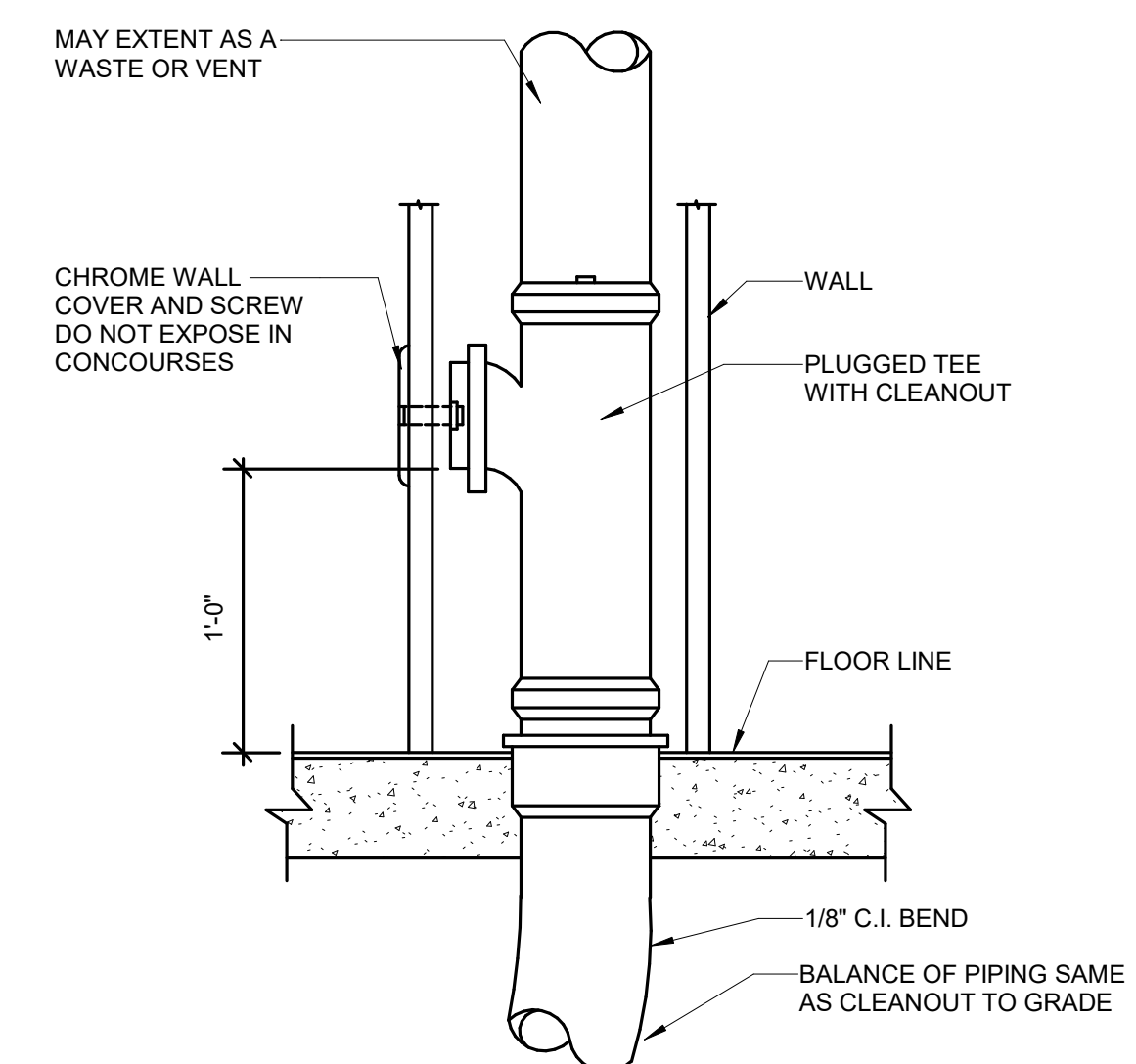
8 ELECTRIC WATER HEATER DETAIL
NO SCALE



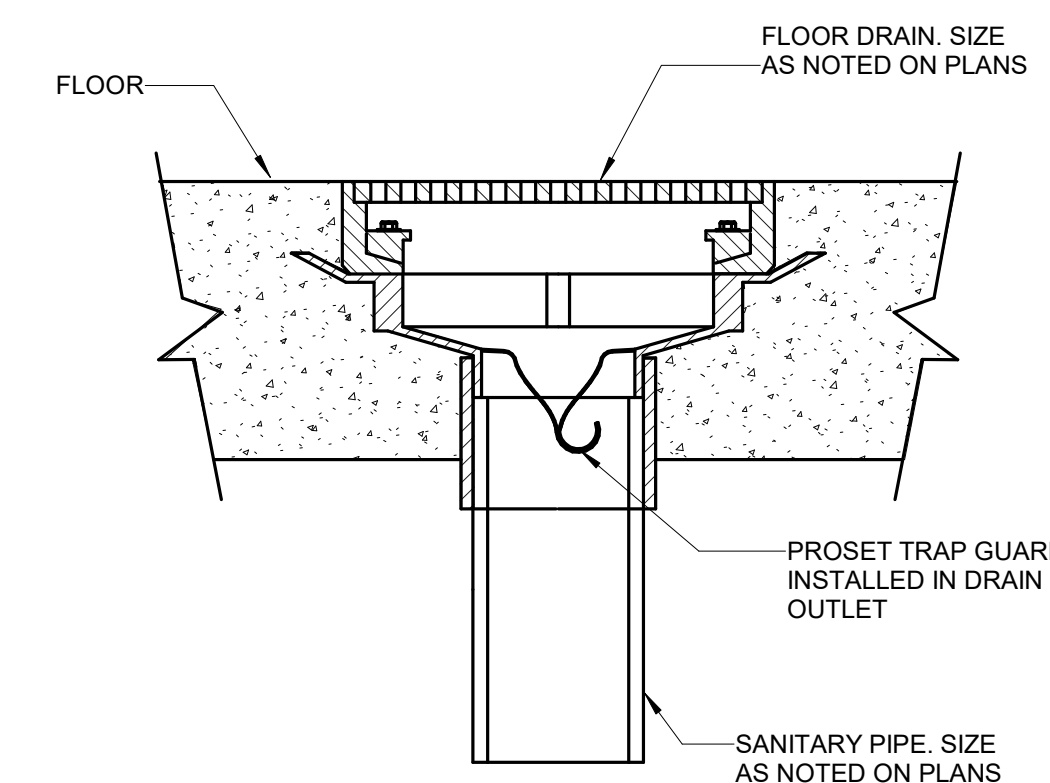
1 ELEVATOR SUMP PUMP DETAIL
NO SCALE



2 TWO-WAY EXTERIOR GRADE CLEANOUT DETAIL
NO SCALE



3 WALL CLEANOUT DETAIL
NO SCALE



4 TRAP GUARD DETAIL
NO SCALE

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Project Name

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IMPROVEMENTS

Project Number

003.7835.000

Description

PLUMBING DETAILS

Scale

NO SCALE

1A-P8.000

TRANSFORMER TABLE - 480V PRIMARY - 208Y/120V SECONDARY									
KVA	FL AMPS	SIZE	TRANSFORMER GROUNDING ELECTRODE		FL AMPS	BKR SIZE	FDR		
		(1)	(2)	(WIRE) (PSE)	208V	(1)	(2)		
3PH	480V								
15	18	30	F30	(#6 GCU) 3/4"	42	50			
30	36	30	F30	(#6 GCU) 3/4"	83	100		FN100A	
45	54	75	F75	(#6 GCU) 3/4"	125	150		FN150	
75	90	150	F150	(#6 GCU) 3/4"	208	250		FN250	
112.5	135	175	F175	(#10 GCU) 1/2"	312	400		FN400A	
150	180	225	F225	(#10 GCU) 1/2"	416	500		FN500A	
225	270	350	F350	(#10 GCU) 1/2"	625	750		FN750A	
300	361	450	F450	(#10 GCU) 1/2"	833	1000		FN1000A	
500	601	800	F800	(#250 KCMIL) 1/2"	1388	1600		FN1600A	

NOTES

1


USE DEVICE TYPES INDICATED ON SINGLE LINE DIAGRAM.

2

REFERENCE FEEDER TABLE FOR FEEDER SIZE.

ME FEEDER TABLE						
COPPER				COPPER		
BK#/CPD	TAG	SETS	FEEDER/PIPE (3W)	TAG	SETS	FEEDER/PIPE (4W)
20	F20	-	(3#12,#12G) 3/4"C	FN00	-	(4#12,#12G) 3/4"C
30	F30	-	(3#10,#10G) 3/4"C	FN01	-	(4#10,#10G) 3/4"C
40	F40	1	(3#8,#10G) 3/4"C	FN40	1	(4#8,#10G) 3/4"C
50	F50	1	(3#8,#10G) 3/4"C	FN50	1	(4#8,#10G) 3/4"C
50	-	-	-	FN50A	1	(4#8,#8G) 1"C
50	-	-	-	FD50A	1	(5#8,#8G) 1"C
60	F60	1	(3#6,#8G) 1"C	FN60	1	(4#6,#8G) 1"C
70	F70	1	(3#4,#8G) 1-1/4"C	FN70	1	(4#4,#8G) 1-1/4"C
80	F80	1	(3#4,#8G) 1-1/4"C	FN80	1	(4#4,#8G) 1-1/4"C
90	F90	1	(3#3,#8G) 1-1/4"C	FN90	1	(4#3,#8G) 1-1/4"C
100	F100	1	(3#3,#8G) 1-1/4"C	FN100	1	(4#3,#8G) 1-1/2"C
100	-	-	-	FN100A	1	(4#3,#8G) 1-1/2"C
100	-	-	-	FD100A	1	(5#3,#8G) 1-1/2"C
110	F110	1	(3#2,#8G) 1-1/2"C	-	-	-
125	F125	1	(3#1,#6G) 1-1/2"C	FN125	1	(4#1,#6G) 2"C
150	F150	1	(3#1/#6G) 1-1/2"C	FN150	1	(4#1/#6G) 2"C
175	F175	1	(3#2/#6G) 2"C	FN175	1	(4#2/#6G) 2"C
200	F200	1	(3#3/#6G) 2"C	FN200	1	(4#3/#6G) 2-1/2"C
225	F225	1	(3#4/#6G) 2-1/2"C	FN225	1	(4#4/#6G) 2-1/2"C
250	F250	1	(3#250,#4G) 2-1/2"C	FN250	1	(4#250,#4G) 3"C
250	-	-	-	FN250A	1	(4#250,#2G) 3"C
250	-	-	-	FD250A	1	(5#250,#2G) 3"C
300	F300	1	(3#350,#4G) 3"C	FN300	1	(4#350,#4G) 3"C
350	F350	1	(3#650,#3G) 3"C	FN350	1	(4#500,#3G) 3-1/2"C
400	F400	2	(3#330,#3G) 2"C	FN400	2	(4#330,#3G) 2-1/2"C
400	-	-	-	FN400A	2	(4#330,#10G) 2-1/2"C
400	F400B	1	(3#600,#3G) 4"C	FN400B	1	(4#600,#3G) 4"C
400	-	-	-	FD400A	2	(5#330,#10G) 2-1/2"C
450	F450	2	(3#410,#2G) 2-1/2"C	FN450	2	(4#410,#2G) 2-1/2"C
500	F500	2	(3#250,#2G) 2-1/2"C	FN500	2	(4#250,#2G) 3"C
500	-	-	-	FN500A	2	(4#250,#10G) 3"C
500	-	-	-	FD500A	2	(5#250,#10G) 3"C
600	F600	2	(3#350,#1G) 3"C	FN600	2	(4#350,#1G) 3"C
700	F700	2	(3#600,#10G) 3"C	FN700	2	(4#600,#10G) 3-1/2"C
750	F750	2	(3#500,#10G) 3"C	-	-	-
800	F800	3	(3#300,#10G) 3"C	FN800	3	(4#300,#10G) 3"C
800	-	-	-	FN800A	3	(4#300,#20G) 3"C
800	F800B	2	(3#600,#10G) 3-1/2"C	FN800B	2	(4#600,#10G) 4"C
800	-	-	-	FD800A	3	(5#300,#20G) 3"C
1000	F1000	3	(3#400,#20G) 3"C	FN1000	3	(4#400,#20G) 3-1/2"C
1000	-	-	-	FN1000A	3	(4#400,#30G) 3-1/2"C
1000	-	-	-	FD1000A	3	(5#400,#30G) 3-1/2"C


GENERAL NOTES:

- Steamboat**

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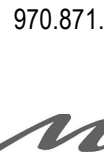
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me
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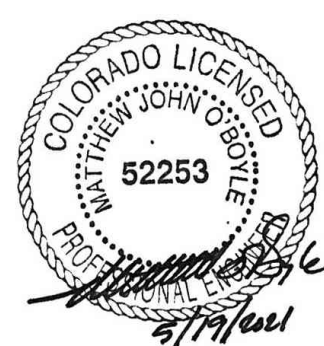
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- KEYNOTES:

- | | |
|----|--|
| 1 | PROVIDE LIGHTING CONTROL PANEL ADJACENT TO THIS PANEL. |
| 2 | NEUTRAL GROUND BOND. |
| 3 | PROVIDE CT CABINET AND METERING PER UTILITY REQUIREMENTS. |
| 4 | CONNECT TO MAIN SERVICE SW. 400 AMP. GROUND BOND WITH #4 AWG COPPER IN A 1" CONDUIT. PVC PERMITTED BELOW GRADE |
| 5 | PROVIDE BUILDING GROUNDING SYSTEM WITH CONNECTION TO FERRITER GROUND LOOP. BUILDING STEEL, COLD WATER PIPE, UFER GROUND, AND ROOM GROUND BOND. |
| 6 | EQUIPMENT AND EQUIPMENT GROUNDING SHALL BE PROVIDED BY ICE PLANT REFRIGERATION CONTRACTOR UNLESS OTHERWISE NOTED. |
| 7 | PROVIDE NEMA 3R (OR GREATER) ENCLOSURE. |
| 8 | PROVIDE CONDUIT WITH PULL STRIPS. PHASE 1 SERVICE WIRING AND TERMINATIONS TO BE PROVIDED AS PHASE 2 SCOPE. |
| 9 | PROVIDE E-GAUGE METERING FOR FOOD SERVICE INFRASTRUCTURE. PROVIDE ALL RESPECTIVE WIRING AND STARTERS FOR METERING. METER LOCATION PER PLAN. METERING AND CTS SHALL BE PHASE 2 SCOPE. |
| 10 | BOND TO COLD WATER PIPE AT THIS LEVEL. |
| 11 | ELECTRICAL CONTRACTOR TO PROVIDE CONDUCTORS ON THE LINE SIDE OF THE DISCONNECT. ICE PLANT CONTRACTOR SHALL PROVIDE CONDUCTORS FROM LOAD SIDE OF DISCONNECT TO MOTOR CONTROL CENTER. |
| 12 | PROVIDE EXTERNALLY MOUNTED SPD FOR SERVICE ENTRANCE SWITCHBOARD. MINIMIZE FEEDER DIVERGENCE. PROVIDE FEEDER SIZE PER MANUFACTURER REQUIREMENTS. |
| 13 | PROVIDE LOCKOUT BREAKER AT SWITCHBOARD. |
| 14 | PROVIDE (1) 2" CONDUIT FROM THIS PANEL TO EACH POH IN THE PLAZA BUILDING. TOTAL OF (6) 2" CONDUITS (1) PER POH EXCLUDING POH AT 7 BAR AREA ON PLAZA LEVEL 02. |
| 15 | PROVIDE BRANCH CIRCUITS ON THIS LEVEL FROM PANEL INDICATED. |

Seal / Signature



Project Name

SSRC | BASE AREA
IMPROVEMENTS

Project Number

003.7835.000

Category	Description
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PROMENADE - ELECTRICAL
ONE-LINES

Scale

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

1A-E0.001

SITE LIGHTING CONTROL SCHEDULE - STEAMBOAT BASE AREA - PROMENADE AND PLAZA BUILDING										SCENES					
THE FOLLOWING CHART OUTLINES AREAS OF ZONING FOR AMBIENT LIGHTING CONTROL SYSTEM.										MAINTENANCE	EVENT	WEEKDAY	WEEKEND	USER DEFINED 01	USER DEFINED 02
LOW VOLTAGE OVERRIDE SWITCHES SHALL BE PROVIDED FOR EACH ZONE AS INDICATED ON PLANS.															
THE BELOW CONTROLS ARE INDICATED FOR ENERGY COMPLIANCE USING ASHRAE 90.1 - 2016 AS THE PRESCRIPTIVE PATH. REFER TO LIGHTING PLANS FOR ADDITIONAL CONTROL DEVICES. THIS MATRIX OUTLINES MINIMUM REQUIREMENT AND BUILDING OPERATION MAY GOVERN THE ADDITION OF CONTROLS.															
SYMBOL	SPACE TYPE DESCRIPTION	CONTROL TYPE													
		DL	DIM	OS	VS	TC	LS	DX							
SITE AND FAÇADE - PROMENADE/PLAZA															
P.S.1	F1 POLE LIGHTING AT PLAZA/PLANTERS	X	X	-	-	X	-	-							
P.S.2	F1 & F2 POLE LIGHTS AT STAGE	X	X	-	-	X	-	-							
P.S.3	F7 POLE LIGHTS (ONLY) AT ICE RINK	X	X	-	-	X	-	-							
P.S.4	F7 GIMBLE AIMABLE LIGHTS (ONLY) AT ICE RINK	X	X	-	-	X	-	-							
P.S.5	F7 GIMBLE AIMABLE LIGHTS (ONLY) AT ICE RINK	X	X	-	-	X	-	X							
P.S.6	F8 TREE LIGHTING AT PLAZA PLANTERS	X	X	-	-	X	-	-							
P.S.7	F8 TREE LIGHTING AT EAST LOWER PROMENADE PLANTERS	X	X	-	-	X	-	-							
P.S.8	F1 POLE LIGHTS AT LOWER PROMENADE ENTRY	X	X	-	-	X	-	-							
P.S.9	S1 FAÇADE LIGHTS AT LOWER PROMENADE ENTRY FAÇADE	X	X	-	-	X	-	-							
P.S.10	S1 FAÇADE LIGHTS ON FAÇADE AT PLAZA LEVEL	X	X	-	-	X	-	-							
P.S.11	PLAZA FIRE PIT	-	-	-	-	X	-	-							
P.S.12	PLAZA FIRE BOWLS	-	-	-	-	X	-	-							
P.S.13	PLAZA TREE RECEPTACLES FOR HOLIDAY LIGHTING	-	-	-	-	X	-	-							
P.S.14	DUPLEX RECEPTACLES WITHIN POLE BASE	-	-	-	-	X	-	-							
P.S.15	PLAZA SIGNAGE	-	-	-	-	X	-	-							
P.S.16	PLAZA SIGNAGE	-	-	-	-	X	-	-							
P.S.17	PLAZA SIGNAGE	-	-	-	-	X	-	-							
P.S.18	PLAZA SIGNAGE	-	-	-	-	X	-	-							

LEVEL 00 LIGHTING CONTROL SCHEDULE - STEAMBOAT BASE AREA - PROMENADE AND PLAZA BUILDING																
THE FOLLOWING CHART OUTLINES AREAS OF ZONING FOR AMBIENT LIGHTING CONTROL SYSTEM.																
LOW VOLTAGE OVERRIDE SWITCHES SHALL BE PROVIDED FOR EACH ZONE AS INDICATED ON PLANS.																
THE BELOW CONTROLS ARE INDICATED FOR ENERGY COMPLIANCE USING ASHRAE 90.1 - 2016 AS THE PRESCRIPTIVE PATH. REFER TO LIGHTING PLANS FOR ADDITIONAL CONTROL DEVICES. THIS MATRIX OUTLINES MINIMUM REQUIREMENT AND BUILDING OPERATION MAY GOVERN THE ADDITION OF CONTROLS.																
SYMBOL	SPACE TYPE DESCRIPTION	CONTROL TYPE						MAINTENANCE	EVENT	SCENES				USER DEFINED 01	USER DEFINED 02	
		DL	DIM	OS	VS	TC	LS			WEEKDAY	WEEKEND	USER				
LEVEL 00 - PROMENADE/PLAZA																
P.00.1	STAIRS	-	-	-	X	X	X	-								
P.00.2	MEP ROOMS	-	-	-	-	-	-	-								
P.00.3	STORAGE ROOMS	-	-	-	-	X	-	X								
P.00.4	CORRIDORS	-	-	-	X	X	X	X								
P.00.5	VESTIBULES	-	-	-	X	-	X	-								
P.00.6	LOADING DOCK / TRASH	-	-	-	-	X	-	X								
P.00.7	FOOD SERVICE / DISHWASHING	-	-	-	-	X	-	X								
P.00.8		-	-	-	-	-	-	-								
P.00.9		-	-	-	-	-	-	-								
P.00.10		-	-	-	-	-	-	-								

LEVEL 02 LIGHTING CONTROL SCHEDULE - STEAMBOAT BASE AREA - PROMENADE AND PLAZA BUILDING										MAINTENANCE	EVENT	WEEKDAY	WEEKEND	USER DEFINED 01	USER DEFINED 02			
THE FOLLOWING CHART OUTLINES AREAS OF ZONING FOR AMBIENT LIGHTING CONTROL SYSTEM.																		
LOW VOLTAGE OVERRIDE SWITCHES SHALL BE PROVIDED FOR EACH ZONE AS INDICATED ON PLANS.																		
THE BELOW CONTROLS ARE INDICATED FOR ENERGY COMPLIANCE USING ASHRAE 90.1 - 2016 AS THE PRESCRIPTIVE PATH. REFER TO LIGHTING PLANS FOR ADDITIONAL CONTROL DEVICES. THIS MATRIX OUTLINES MINIMUM REQUIREMENT AND BUILDING OPERATION MAY GOVERN THE ADDITION OF CONTROLS.																		
SYMBOL	SPACE TYPE DESCRIPTION						CONTROL TYPE											
							DL	DIM	OS	VS	TC	LS						
LEVEL 02 - PROMENADE/PLAZA																		
P.02.1		STAIRS					-	-	-	X	-	X	-					
P.02.2		MEP ROOMS					-	-	-	-	-	-	X					
P.02.3							-	-	-	-	-	-	-					
P.02.4							-	-	-	-	-	-	-					
P.02.5							-	-	-	-	-	-	-					

LEVEL 01 LIGHTING CONTROL SCHEDULE - STEAMBOAT BASE AREA - PROMENADE AND PLAZA BUILDING												
THE FOLLOWING CHART OUTLINES AREAS OF ZONING FOR AMBIENT LIGHTING CONTROL SYSTEM.												
LOW VOLTAGE OVERRIDE SWITCHES SHALL BE PROVIDED FOR EACH ZONE AS INDICATED ON PLANS.												
THE BELOW CONTROLS ARE INDICATED FOR ENERGY COMPLIANCE USING ASHRAE 90.1 - 2016 AS THE PRESCRIPTIVE PATH. REFER TO LIGHTING PLANS FOR ADDITIONAL CONTROL DEVICES. THIS MATRIX OUTLINES MINIMUM REQUIREMENT AND BUILDING OPERATION MAY GOVERN THE ADDITION OF CONTROLS.												
SYMBOL	SPACE TYPE DESCRIPTION	CONTROL TYPE						MAINTENANCE	SCENES			
		DL	DIM	OS	VS	TC	LS		EVENT	WEEKDAY	WEEKEND	USER DEFINED 01
LEVEL 01 - PROMENADE/PLAZA												
P.01.1	STAIRS	-	-	X	-	X	-					
P.01.2	MEP ROOMS	-	-	-	-	-	X					
P.01.3		-	-	-	-	-	-					
P.01.4		-	-	-	-	-	-					
P.01.5		-	-	-	-	-	-					

LEGEND:

DL = DAYLIGHT CONTROLLED WITH AUTOMATIC TIME CLOCK AND PHOTOCCELL

DIM = DIMMING CONTROLS (CONTROL QUANTITY, ZONING, AND TYPE PER PLAN)

OS = OCCUPANCY SENSOR (AUTOMATIC ON TO 100%)

VS = VACANCY SENSOR (MANUAL ON)

TC = AUTOMATIC TIME CLOCK WITH LOW VOLTAGE OVERRIDE (SWITCH OR OCC. SENSOR PER PLAN)

LS = LOW VOLTAGE SWITCH (ON/OFF ONLY)

DMX = DMX ADDRESSABLE FIXTURE. VERIFY WITH SPECIFIC FIXTURE SPEC FOR FIXTURE ADDRESS QUANTITY AND EM OVERRIDE REQUIREMENTS.

GENERAL NOTES:

1. REFER TO LIGHTING DRAWINGS FOR OCCUPANCY/VACANCY SENSOR SPACES. PROVIDE QUANTITY AS REQUIRED FOR FULL COVERAGE OF ALL SPACES.
2. PROVIDE ADDITIONAL RELAYS AS REQUIRED FOR AUTOMATIC RECEPTACLE CONTROL AS INDICATED ON ELECTRICAL DRAWINGS FOR ALL PRIVATE OFFICES, OPEN OFFICES, AND COMPUTER CLASSROOMS.
3. ALL INTERIOR SPACES SHALL HAVE MANUAL LOCAL SWITCH/DIMMING CONTROLS OTHER THAN RESTROOMS AND PUBLIC CORRIDORS.

[illegible]

SITE FACADE												
Type	Lamp	Description	Finish	Voltage	Mounting	Manufacturer	Catalog Number	Alternate 1	Alternate 2	Control	Location	Comments
S1	Lamp 5903 LUMENS, 55w, 3000K, 80 CRI	SIMILAR TO F1, EXCEPT WALL MOUNTED	BLACK (VERIFY WITH ARCH)	120/277V	WALL	WE-EF	ASPS4 LEDB55-3526	APPROVED ALTERNATE	APPROVED ALTERNATE	0-10V DIMMING		ARM MOUNTED
S2	7.7W, 807 LUMENS, 3000K, 80 CRI	10.31" WIDE X 9.06" TALL X 4.52" DEEP RECESSED STEP LIGHT WITH TEMPERED GLASS LENS. ASSY MOUNTED THROU. WET LOCATION RATED.	GREY METALLIC (VERIFY WITH ARCHITECT)	120-277V	RECESSED	WE-EF	QRI 354 LED - 616 1321	APPROVED ALTERNATE	APPROVED ALTERNATE	ON/OFF	STEPS	
S3	28W, 2951 LUMENS, 3000K, 80 CRI	9.84" DIAMETER ROUND RECESSED, LINEAR SPREAD LENSED LED SOFTENING LENS. 7.87" DEEP 11.97" DIAMETER BLACK BOX, WET LOCATION RATED.	STAINLESS STEEL	120-277V	RECESSED	WE-EF	ETC330-FS LED+1 O - 180"	APPROVED ALTERNATE	APPROVED ALTERNATE	ON/OFF	ESCALATOR CANOPY	

EMERGENCY												
Type	Lamp	Description	Finish	Voltage	Mounting	Manufacturer	Catalog Number	Alternate 1	Alternate 2	Control	Location	Comments
X1	5W LED GREEN/RED	EDGE LIT EXIT SIGN, PROVIDE WHITE OR MIRROR BACKING BETWEEN PANELS - TBD. MOUNTING AND ARROWS, SINGLE OR DOUBLE FACE, WITH UNIVERSAL MOUNTING FOR ALL CONDITIONS PER PLAN DRAWINGS	BRUSHED ALUMINUM	277	UNIVERSAL	LITHONIA	LRP SERIES	COOPER	SIGNIFY		PREMIUM AREAS	VERIFY LETTER & BACKGROUND COLOR WITH LOCAL AHJ

RCRBD
Record Set
Electrical
07/01/2021



Steamboat
ALTERRA east west partners
 MOUNTAIN COMPANY

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△ Date	Description
- 2021.05.19	BP3: PROMENADE - ISSUE FOR BID AND PERMIT

ELECTRICAL EQUIPMENT CONNECTION SCHEDULE											
EQUIPMENT ID	EQUIPMENT NAME	HP	LOAD (VA)	VOLTAGE	PHASE	FLA	DISCONNECT	FUSE	FEEDER	CONDUIT	COMMENTS
EQ-1	OVERHEAD DOOR OPENER	3/4	1656	120 V	1	14 A	30A/1P	FUSE PER MFG	2 #12 & #12 GND	3/4"	
EQ-10	ADA DOOR OPENER	3/4	960	120 V	1	8 A	30A/1P		2 #12 & #12 GND	3/4"	

Seal / Signature



Project Name

SSRC | BASE AREA
IMPROVEMENTS

Project Number

003.7835.000

[illegible]

ELECTRICAL CONNECTION AND LIGHTING SCHEDULES

Scale

$$1/8'' = 1'-0''$$

1A-E0.002

Steamboat Base Village Redevelopment										ME Engineers Inc.										PANEL: L1N1									
480/277 Wye 3 Phase, 4 Wire + Gnd. 60Hz. SCCR:										BUS: 250 A MANS: MLO GROUND BAR: Copper OPTIONS:										ENCLOSURE: Type 1 MOUNTING: Surface FED FROM: MSB LEVEL: LOWER LEVEL B02 - PUBLIC FFE LOCATION: R1N1 ISSUE DATE: 12/17/2020 REFER TO DETAILS AND SPECIFICATION SECTION FOR PANELBOARD LAMINATED PLAQUE REQUIREMENTS.									
NOTES:																													
N	DESCRIPTION				P	OC	CKT	A	B	C	CKT	OC	P	DESCRIPTION				N											
--	TR-RN1				3	125	1	400	1808			2	20	1	CORRIDOR, ERV RMS, MECHICE, DISHWASHING LTG														
--	--				--	3	--	--	0	1520		4	20	1	COLD FOOD STORAGE, KEG ROOM, FOOD STORAGE LTG														
	EM LTG WATER ENTRY, MAIN ELEC. VEST. 100				1	20	7	344	0		120	6	20	1	EXTENSION MECHANICAL YARD LTG														
	EM LTG ID/IT RM 90 & 91 & CORRIDOR 114				1	20	9		410	0		10	20	1	SPARE														
	EM LTG FOOD STORAGE 110				1	20	11			420	0	12	20	1	SPARE														
	EM LTG ERV1 & ERV 2				1	20	13	420	0			14	20	1	SPARE														
	EM LTG ELEC 106 & PLAZA DISHWASHING				1	20	15		294	0		16	20	1	SPARE														
	EM LTG TO MECHANICAL PLANT 104				1	20	17			504	0	18	20	1	SPARE														
	EM LTG FOOD SERVICE, LOADING/TRASH 103				1	20	19	420	0			20	20	1	SPARE														
	EM LTG STAIR 109				1	20	21		216	0		22	20	1	SPARE														
	EXT SIGNS SOUTH				1	20	23			15	0	24	20	1	SPARE														
	SPARE				1	20	25	0	0			26	20	1	SPARE														
	SPARE				1	20	27		0	0		28	20	1	SPARE														
	SPARE				1	20	29			0	0	30	20	1	SPARE														
	SPARE				1	20	31	0	0			32	20	1	SPARE														
	SPARE				1	20	33		0	0		34	20	1	SPARE														
	SPARE				1	20	35			0	0	36	20	1	SPARE														
	SPARE				1	20	37	0	0			38	20	1	SPARE														
	SPARE				1	20	39		0	0		40	20	1	SPARE														
	SPARE				1	20	41			0	0	42	20	1	SPARE														
PER PHASE VA WITH DOWNSTREAM LOADS										LOAD SUMMARY WITH DOWNSTREAM LOADS INCLUDED																			
PHASE		A	B	C	TOTALS		CATEGORY		CONNECTED		FACTOR		CALC. V-A		AMPS @ 480/277 Wye														
CALC		3392	2440	1059	6891		LIGHTING		6711		100%		6711		8														
CHNCTD		3392	2440	1059	6891		RECEPTACLE																						
DOWNSTREAM FEED THROUGH LUG PANELS										MOTOR																			
										MISCELLANEOUS																			
										KITCHEN																			
										ELECTRIC HEAT																			
										EV CHARGING																			
CONDUCTOR COLORS (EC TO LABEL IN PANEL)																													
A		208Y/120			480Y/277																								
B		BLACK			BROWN																								
C		RED			ORANGE																								
N		BLUE			YELLOW																								
G		WHITE			WHITE/GRAY STRIPE																								
G		GREEN			GREEN		TOTAL		6891		6891		8																

Steamboat Base Village Redevelopment										ME Engineers Inc.										PANEL: L1N2																
480/277 Wye 3 Phase, 4 Wire + Gnd. 60Hz. SCCR:										BUS: 100 A MANS: MLO GROUND BAR: Copper OPTIONS:										ENCLOSURE: Type 1 MOUNTING: Surface FED FROM: MSB LEVEL: LOWER LEVEL B02 - PUBLIC FFE LOCATION: R1N2 (ABOVE) ISSUE DATE: 12/17/2020 REFER TO DETAILS AND SPECIFICATION SECTION FOR PANELBOARD LAMINATED PLAQUE REQUIREMENTS.																
NOTES:																																				
N	DESCRIPTION										P	OC	CKT	A	B	C	CKT	OC	P	DESCRIPTION										N						
	SITE LIGHTING F1 & F2 - ZONE P.S.1										1	20	1	605	330			2	20	1	SITE LIGHTING F1 & F2 - ZONE P.S.2															
	SITE LIGHTING F7 - ZONE P.S.3										1	20	3		660	672			4	20	1	SITE LIGHTING F7A - ZONE P.S.4														
	SITE LIGHTING F7A - ZONE P.S.5										1	20	5				672	20	6	20	1	SITE LIGHTING F7B - ZONE P.S.8														
	SITE LIGHTING F8 - ZONE P.S.7										1	20	7	15	55					8	20	1	SITE LIGHTING F8 - ZONE P.S.8													
	SITE LIGHTING F3 - ZONE P.S.9										1	20	9		220	330					10	20	1	SITE LIGHTING F3 - ZONE P.S.10												
	SPARE										1	20	11				0	0			12	20	1	SPARE												
	STAGE BUILDING RESTROOM NORMAL LIGHTING										1	20	13	84	0						14	20	1	SPARE												
	EM LTG - ELEC 130										1	20	15		168	0					16	20	1	SPARE												
	SPARE										1	20	17				0	0				18	20	1	SPARE											
	SPARE										1	20	19	0	0							20	20	1	SPARE											
	SPARE										1	20	21		0	0						22	20	1	SPARE											
	SPARE										1	20	23				0	0				24	20	1	SPARE											
	SPARE										1	20	25	0	0							26	20	1	SPARE											
	SPARE										1	20	27		0	0			0	0			28	20	1	SPARE										
	SPARE										1	20	29						0	0			30	20	1	SPARE										
	SPARE										1	20	31	0	0							32	20	1	SPARE											
	SPARE										1	20	33			0	0					34	20	1	SPARE											
	SPARE										1	20	35					0	0				36	20	1	SPARE										
	SPARE										1	20	37	0	0							38	20	1	SPARE											
	SPARE										1	20	39		0	0						40	20	1	SPARE											
	SPARE										1	20	41				0	0				42	20	1	SPARE											
PER PHASE VA WITH DOWNSTREAM LOADS										LOAD SUMMARY WITH DOWNSTREAM LOADS INCLUDED																										
PHASE	A	B	C	TOTALS	CATEGORY					CONNECTED	FACTOR	CALC. V-A	AMPS @ 480/277 Wye																							
CALC	1089	2050	692	3831	LIGHTING					3831	100%	3831	5																							
CHNCTD	1089	2050	692	3831	RECEPTACLE																															
DOWNSTREAM FEED THROUGH LUG PANELS										MOTOR																										
										MISCELLANEOUS																										
										KITCHEN																										
										ELECTRIC HEAT																										
										EV CHARGING																										
CONDUCTOR COLORS (EC TO LABEL IN PANEL)																																				
208Y/120										480Y/277																										
A	BLACK										BROWN																									
B	RED										ORANGE																									
C	BLUE										YELLOW																									
N	WHITE										WHITE/GRAY STRIPE																									
G	GREEN										TOTAL										3831 3831 5															

Steamboat Base Village Redevelopment										ME Engineers Inc.										PANEL: M1N2									
480/277 Wye 3 Phase, 4 Wire + Gnd. 60Hz. SCCR:										BUS: 400 A MANS: MCB GROUND BAR: Copper OPTIONS:										ENCLOSURE: Type 1 MOUNTING: Surface FED FROM: MSB LEVEL: LOWER LEVEL B02 - PUBLIC FFE LOCATION: R1N1 ISSUE DATE: 12/17/2020 REFER TO DETAILS AND SPECIFICATION SECTION FOR PANELBOARD LAMINATED PLAQUE REQUIREMENTS.									
NOTES: 1. EXISTING CIRCUIT TO BE REFEED																													
N	DESCRIPTION				P	OC	CKT	A	B		C		CKT	OC	P	DESCRIPTION				N									
1	RESTROOM LTG				1	20	1	0	0				2	20	2		WH-1				1								
1	EXTERIOR LTG				1	20	3			0	0		4	--	--		WH-2				1								
1	SPARE				1	20	5					0	6	20	2		--				1								
1	EDH-1				3	30	7	0	0				8	--	--		WH-4				1								
--	--				--	--	9			0	0	0	10	20	2		--				--								
--	--				--	--	11						12	--	--		--				--								
1	EDH-2				3	30	13	0	0				14	20	2		WH-5				1								
--	--				--	--	15			0	0		16	--	--		--				--								
--	--				--	--	17						18	20	1		SPARE				--								
--	SPARE				1	20	19	0	0				20	20	1		SPARE				--								
--	SPARE				1	20	21						22	20	1		SPARE				--								
--	SPARE				1	20	23					0	0	24	20	1		SPARE				--							
--	SPARE				1	20	25	0	0				26	20	1		SPARE				--								
--	SPARE				1	20	27			0	0		28	20	1		SPARE				--								
--	SPARE				1	20	29					0	30	20	1		SPARE				--								
--	SPARE				1	20	31	0	0				32	20	1		SPARE				--								
--	SPARE				1	20	33			0	0		34	20	1		SPARE				--								
--	SPARE				20	35							36	20	1		SPARE				--								
--	SPARE				1	20	37	0	25749				38	250	3		T-R1N4				--								
--	SPARE				1	20	39			0	26115		40	--	--		--				--								
--	SPARE				1	20	41				0	25084	42	--	--		--				--								
PER PHASE VA WITH DOWNSTREAM LOADS										LOAD SUMMARY WITH DOWNSTREAM LOADS INCLUDED																			
PHASE	A	B	C	TOTALS	CATEGORY	CONNECTED	FACTOR	CALC. V-A	AMPS @ 480/277 Wye																				
CALC	18985	19154	18544	56684	LIGHTING	1200	100%	1200	1																				
CNCTD	29740	30115	29284	77148	RECEPTACLE	51307	60%	30684	37																				
DOWNSTREAM FEED THROUGH LUG PANELS										MOTOR	951	110%	1050	1															
										MISCELLANEOUS	23520	100%	23520	28															
										KITCHEN																			
CONDUCTOR COLORS (EC TO LABEL IN PANEL)										ELECTRIC HEAT	150	100%	150	0															
208Y/120										EV CHARGING																			
A	BLACK				480/277																								
B	BROWN																												
C	RED																												
D	YELLOW																												
E	BLUE				WHITE/GRAY STRIPE																								
F	WHITE																												
G	GREEN																												
TOTAL						77148		56584	68																				

Steamboat Base Village Redevelopment

120208 Wye

3 Phase, 4 Wire + Grd. 60Hz.

SCCR:

ME Engineers Inc.

BUS: 400 A - MCB

GROUND BAR: Copper

OPTIONS: FEED THROUGH LUGS

PANEL

ENCLOSURE: MOUNTING: SURFACE

TYPE 1 T-14

LEVEL: LOWER LEVEL B22 - PUBLIC FEE

NOTES:

1. EXISTING CIRCUIT TO BE REFERED FROM NEW PANEL

ISSUE DATE: 12/17/2020

REFER TO DETAILS & SPECIFICATION SECTION FOR PANELBOARD LAMINATED PLQUE REQUIREMENTS.

N	DESCRIPTION	P	OC	CKT	A	B	C	CKT	OC	P	DESCRIPTION	N
1	EF-1	1	20	1	0	0				2	20	1
1	SF-1	1	20	3			0	0		4	20	--
1	SF-2	1	20	5			0	0	0	6	20	--
1	WK-3	1	20	7	0	0				8	20	1
1	RECEPTACLES	1	20	9		0	0	0		10	20	1
1	RECEPTACLES	1	20	11				0	0	12	20	SPARE
1	RECEPTACLES	1	20	13	0	0				14	20	1
1	HAND DRYERS	1	20	15		0	0	0		16	20	1
1	HAND DRYERS	1	20	17				0	1800	18	20	1
1	HAND DRYERS	1	20	19	0	540				20	20	1
1	HAND DRYERS	1	20	21		0	720	0		22	20	1
1	HAND DRYERS	1	20	23				0		24	20	1
1	HAND DRYERS	1	20	25	0	540				26	20	1
1	MCHT TIME CLOCK	1	20	27		0	540	0		28	20	1
1	SOLENOID VALVE	1	20	29				0	0	30	20	1
	SPARE	1	20	31	0	0				32	20	1
	SPARE	1	20	33		0	0	0		34	20	1
	SPARE	1	20	35				0	0	36	20	1
	SPARE	1	20	37	0	12347				38	150	3
	SPARE	1	20	39			0	11348	0	40	--	--
	SPARE	1	20	41				0	12947	42	--	--

PER PHASE VA WITH DOWNSTREAM LOADS

PHASE	A	B	C	TOTALS
CALC	18885	19154	18544	56584
CNCTG	23749	26115	25284	77148

DOWNGRIDE FEED THROUGH LUG PANELS

LOAD SUMMARY WITH DOWNSTREAM LOADS INCLUDED

CATEGORY	CONNECTED	FACTOR	CALC. V-A	AMPS @ 120/208 Wye
LIGHTING	1200	100%	1200	3
RECEPTACLE	51327	60%	30694	35
MOTOR	9501	110%	10550	3
MISCELLANEOUS	23520	100%	23520	65
KITCHEN				
ELECTRIC HEAT	150	100%	150	0
EV CHARGING				

CONDUCTOR COLORS (EC TO LABEL IN PANEL)

200Y/120	480Y/277
BLACK	BROWN
B	RED
C	ORANGE
BLUE	YELLOW
WHITE	WHITE-GRAY STRIPE
B	GREEN
GREEN	GREEN

TOTAL

77148

56584

157

ME Engineers Inc.

120026 Wye

3 Phase, 4 Wire + Gnd. 60Hz.

SCCR:

MAINS: BUS: 400 A

GROUND BAR: Copper

OPTIONS:

PANEL ENCLOSURE: MOUNTING: FED FROM: LEVEL: LOCATION: ISSUE DATE: 12/17/2020

R14

R14

LOWER LEVEL, 802 - PUBLIC FFE

REFER TO DETAILS & SPECIFICATION SECTION FOR PANELBOARD LAMINATED PLATE REQUIREMENTS.

NOTES:

1. PROVIDE GFI BREAKER

N	DESCRIPTION	P	OC	CKT	A	B	C	CKT	OC	P	DESCRIPTION	N		
	DUPLEX AT LTG FIXTURE POLE BASE - LOWER PROM.	1	20	43	180	360		44	20	1	SITE POWER PEDESTAL NEMA 5-20R QUAD			
	DUPLEX AT BASE OF TREES - LOWER PROM.	1	20	45		720	360	48	20	1	SITE POWER PEDESTAL NEMA 5-20R QUAD			
	DUPLEX AT BASE OF TREES - LOWER PROM.	1	20	47			360	360	48	20	SITE POWER PEDESTAL NEMA 5-20R QUAD			
	DUPLEX AT BASE OF TREES - PLAZA	1	20	49	540	360		50	20	1	SITE POWER PEDESTAL NEMA 5-20R QUAD			
	DUPLEX AT BASE OF TREES - PLAZA	1	20	51		540	180	52	20	1	SITE POWER PEDESTAL NEMA 5-20R			
	PLAZA SIGNAGE ELEMENT NEST STAGE (P.8.15)	1	20	53			0	4803	54	3	SITE POWER PEDESTAL C58369			
	SPARE	1	20	55	300	4803		56	--	--	SPARE			
	SPARE	1	20	57		0	4803	58	--	--	SPARE			
	PLAZA SIGNAGE ELEMENT NEST ESCALATOR (P.8.18)	1	20	59		300	180	0	0	60	20	SITE POWER PEDESTAL NEMA 5-20R		
	SPARE	1	20	61		300	180	0	180	64	20	SITE POWER PEDESTAL NEMA 5-20R		
1	SPARE	--	--	65	--	--	0	4803	66	50	3	SITE POWER PEDESTAL C58369	1	
--	SPARE	--	--	67	0	0	4803	68	--	--	SPARE	--	--	
--	SPARE	--	--	69	0	0	4803	70	--	--	SPARE	--	--	
--	SPARE	--	--	71			0	360	72	20	1	ELEC ROOM 130 RCPPTS		
--	SPARE	--	--	73	0	0	360	74	20	1	ELEC ROOM 130 & IRRIGATION CLOSET 129 RCPPTS			
--	SPARE	--	--	75		0	1920	76	20	1	SITE IRRIGATION SYSTEM			
--	SPARE	--	--	77			0	150	78	20	1	WH3		
--	SPARE	--	--	79	0	135	80	20	1	80	20	1	WHF 1A.04	
--	SPARE	--	--	81	80	1	0	0	82	20	1	SPARE		
--	SPARE	--	--	83			0	0	84	20	1	SPARE		

PER PHASE VA WITH DOWNSTREAM LOADS

PHASE	A	B	C	TOTALS	CATEGORY	CONNECTED	FACTOR	CALC. V-A	AMPS @ 120/208 Wye
CALC	8325	9126	7322	23673	LIGHTING	600	100%	600	2
CNCTD	12322	13507	10837	36665	RECEPTACLE	33860	65%	21930	61
					MOTOR	285	113%	323	1
					MISCELLANEOUS	1920	100%	1920	5

CONDUCTOR COLORS (EC TO LABEL IN PANEL)

A	20S/120	480Y/277
B	BLACK	BROWN
C	RED	ORANGE
D	BLUE	YELLOW
E	WHITE	WHITE/GREY STRIPE
F	GREEN	GREEN
TOTAL 36665 24773 69		

Steamboat Base Village Redevelopment

12/20/20 Wye

3 Phase, 4 Wire + Gnd. 60Hz.

SCCR:

ME Engineers Inc.

BUS: 150 A

MAINS: 150 A - MCB

GROUND BAR: Copper

OPTIONS:

PANEL

ENCLOSURE:

MOUNTING:

FED FROM:

LEVEL:

LOCATION:

ISSUE DATE:

12/17/2020

REFER TO DETAILS AND SPECIFICATION SECTION FOR PANELBOARD LAMINATED PLAQUE REQUIREMENTS.

NOTES:

1. PROVIDE GFCI TYPE BREAKER.

N	DESCRIPTION	P	OCP	CKT	A	B	C	CKT	OCP	P	DESCRIPTION	N	
	UH 4	1	20	1	150	360			2	20	1	IDF 90 APC	
	HFCU 1	1	20	3		360	0		4	30	2	SPARE	
	WFCU IA-03	1	20	5			135	0		6	6	SPARE	
	WFCU IA-02	1	20	7	135	0			8	30	2	SPARE	
	IDFIT 90 RCPT	1	20	9		180	0		10	--	--		
	IDFIT 90 RCPT	1	20	11			180	0	12	20	1	SPARE	
	IDFIT 90 RCPT	1	20	13	180	0			14	20	1	SPARE	
	IDFIT 90 RCPT	1	20	15		180	0		16	20	1	SPARE	
	IDFIT 90 RCPT	1	20	17			180	0	20	20	1	SPARE	
	IDFIT 90 RCPT	1	20	19	180	0			20	20	1	SPARE	
	IDFIT 90 RCPT	1	20	21		180	0		22	20	1	SPARE	
	CORRIDOR 114	1	20	23			540	0	24	20	1	SPARE	
	FOOD STORAGE 114 RCPHS	1	20	25	540	0			26	20	1	SPARE	
	PLAZA SIGNAGE ELEMENT NEAR STAIRS (P.S.17)	1	20	27		300	0		28	20	1	SPARE	
	SITE POWER PEDESTAL NEMA 5-20R QUAD	1	20	29			360	0	30	20	1	SPARE	
	SITE POWER PEDESTAL C26829	3	20	31	3602	0			32	20	1	SPARE	
		--	33	--	--	3602	1350		34	30	2	IT RACK LB-30R RCPT	
		--	35	--	--		3602	1350	36	--	--		
	DUPLEXES IN LTG FIXTURE POLES	1	20	37	720	1350			38	30	2	IT RACK LB-30R RCPT	
	DUPLEX AT BASE OF TREES - PLAZA	1	20	39		360	1350		40	--	--		
	PLAZA FIRE BOWL CONNECTION	1	20	41				1800	1350	42	30	2	IT RACK LB-30R RCPT
	PLAZA FIRE BOWL CONNECTION	1	20	43	1800	1350			44	--	--		
	PLAZA FIRE BOWL CONNECTION	1	20	45		1800	1350		46	30	2	IT RACK LB-30R RCPT	
	PLAZA FIRE BOWL CONNECTION	1	20	47			1800	1350	48	--	--		
	PLAZA FIRE BOWL CONNECTION	1	20	49	1800	1800			50	20	1	SITE POWER PEDESTAL NEMA 5-20R	
	PLAZA SIGNAGE ELEMENT (P.S. 16)	1	20	51		300	0		52	20	1	SPARE	
	SPARE	1	20	53			0	0	54	20	1	SPARE	
	SPARE	1	20	55		0	0	0	56	20	1	SPARE	
	SPARE	1	20	57		0	0	0	58	20	1	SPARE	
	SPARE	1	20	59			0	0	60	20	1	SPARE	
PER PHASE VA WITH DOWNSTREAM LOADS													
LOAD SUMMARY WITH DOWNSTREAM LOADS INCLUDING													
PHASE	A	B	C	TOTALS	CATEGORY	CONNECTED	FACTOR	CALC. V.A.	AMPS @ 120/208 Wye				
CALC	11510	10579	11790	33879	LIGHTING	600	100%	600	2				
DNCTD	12467	11348	12647	36343	RECEPTACLE	1076	100%	12564	35				
DOWNSTREAM FEED THROUGH LUG PANELS					MOTOR	666	115%	765	2				
					MISCELLANEOUS	1980	100%	19800	55				
					KITCHEN								
					ELECTRIC HEAT	1500	100%	150	0				
					EY CHARGING								
CONDUCTOR COLORS (EO TO LABEL IN PANEL)													
20BY120 480Y/277													
A	BLACK	BROWN											
B	RED	ORANGE											
C	BLUE	YELLOW											
N	WHITE	WHITE/GRAY STRIPE											
G	GREEN	GREEN											
TOTAL						36343		33879	54				

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△ Date	Description
- 2021.05.19	BP3: PROMENADE - ISSUE FOR BID AND PERMIT

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Project Name

SSRC | BASE AREA
IMPROVEMENTS

Project Number

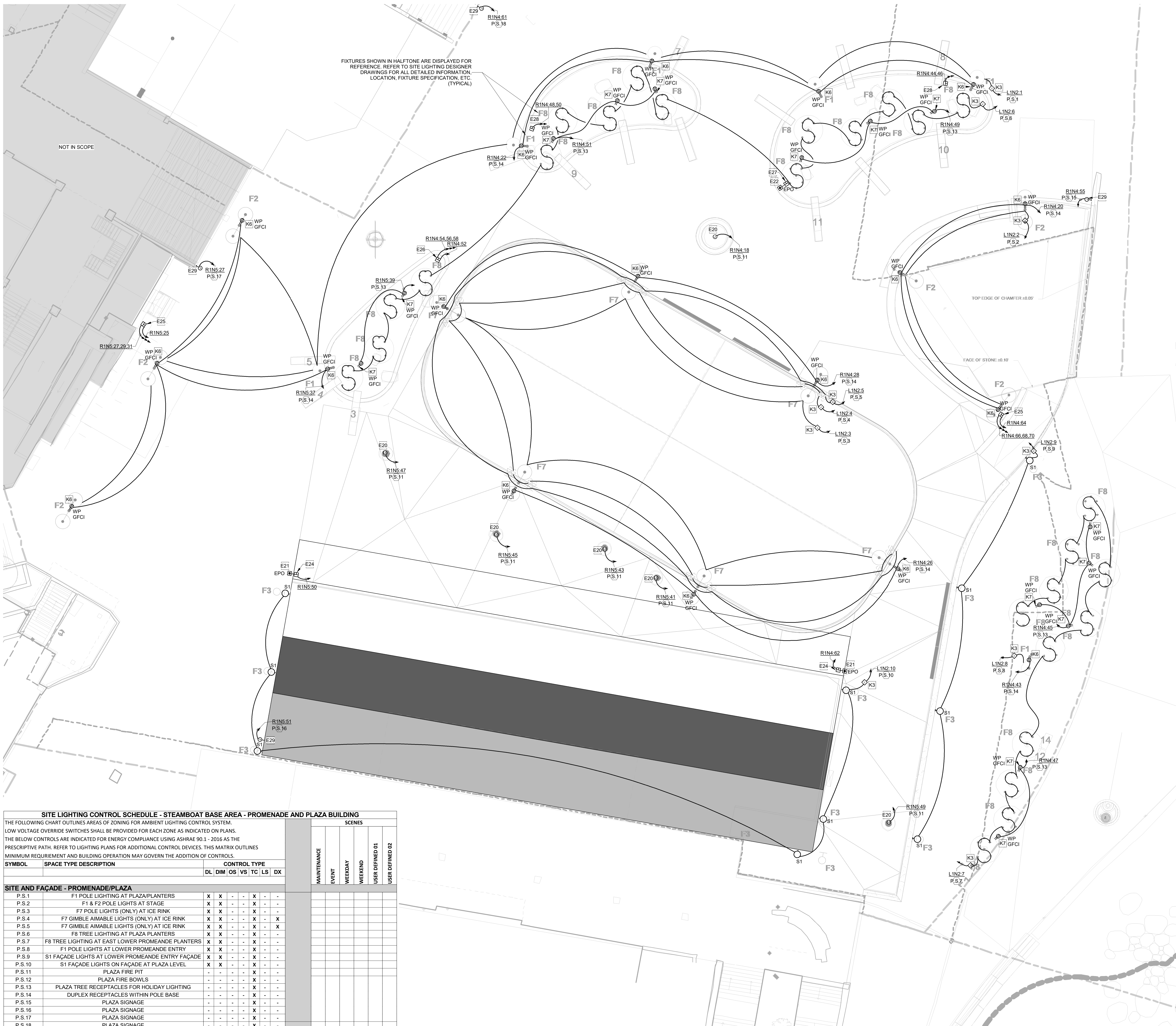
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ELECTRICAL PANEL SCHEDULES

Scale

1A-E0.004



SITE LIGHTING CONTROL SCHEDULE - STEAMBOAT BASE AREA - PROMENADE AND PLAZA BUILDING													
THE FOLLOWING CHART OUTLINES AREAS OF ZONING FOR AMBIENT LIGHTING CONTROL SYSTEM. LOW VOLTAGE OVERRIDE SWITCHES SHALL BE PROVIDED FOR EACH ZONE AS INDICATED ON PLANS. THE BELOW CONTROLS ARE INDICATED FOR ENERGY COMPLIANCE USING ASHRAE 90.1 - 2016 AS THE PRESCRIPTIVE PATH. REFER TO LIGHTING PLANS FOR ADDITIONAL CONTROL DEVICES. THIS MATRIX OUTLINES MINIMUM REQUIREMENT AND BUILDING OPERATION MAY GOVERN THE ADDITION OF CONTROLS.								SCENES					
								MAINTENANCE	EVENT	WEEKDAY	WEEKEND	USER DEFINED 01	USER DEFINED 02
SYMBOL	SPACE TYPE DESCRIPTION	CONTROL TYPE											
		DL	DIM	OS	VS	TC	LS	DX					
SITE AND FAÇADE - PROMENADE/PLAZA													
P.S.1	F1 POLE LIGHTING AT PLAZA/PLANTERS	X	X	-	-	X	-	-					
P.S.2	F1 & F2 POLE LIGHTS AT STAGE	X	X	-	-	X	-	-					
P.S.3	F7 POLE LIGHTS (ONLY) AT ICE RINK	X	X	-	-	X	-	-					
P.S.4	F7 GIMBLE AIMABLE LIGHTS (ONLY) AT ICE RINK	X	X	-	-	X	-	X					
P.S.5	F7 GIMBLE AIMABLE LIGHTS (ONLY) AT ICE RINK	X	X	-	-	X	-	X					
P.S.6	F8 TREE LIGHTING AT PLAZA PLANTERS	X	X	-	-	X	-	-					
P.S.7	F8 TREE LIGHTING AT EAST LOWER PROMENADE PLANTERS	X	X	-	-	X	-	-					
P.S.8	F1 POLE LIGHTS AT LOWER PROMENADE ENTRY	X	X	-	-	X	-	-					
P.S.9	S1 FAÇADE LIGHTS AT LOWER PROMENADE ENTRY FAÇADE	X	X	-	-	X	-	-					
P.S.10	S1 FAÇADE LIGHTS ON FAÇADE AT PLAZA LEVEL	X	X	-	-	X	-	-					
P.S.11	PLAZA FIRE PIT	-	-	-	-	X	-	-					
P.S.12	PLAZA FIRE BOWLS	-	-	-	-	X	-	-					
P.S.13	PLAZA TREE RECEPTACLES FOR HOLIDAY LIGHTING	-	-	-	-	X	-	-					
P.S.14	DUPLEX RECEPTACLES WITHIN POLE BASE	-	-	-	-	X	-	-					
P.S.15	PLAZA SIGNAGE	-	-	-	-	X	-	-					
P.S.16	PLAZA SIGNAGE	-	-	-	-	X	-	-					
P.S.17	PLAZA SIGNAGE	-	-	-	-	X	-	-					
P.S.18	PLAZA SIGNAGE	-	-	-	-	X	-	-					

1 ELECTRICAL SITE PLAN

SCALE: 1" = 10'-0"

GENERAL NOTES:

1. REFER TO LANDSCAPE DRAWINGS FOR LIGHT FIXTURE SPECIFICATIONS.
2. REFER TO LANDSCAPE DRAWINGS FOR ALL SITE FIXTURE LOCATIONS MOUNTED IN HARDSCAPE OR SOFTSCAPE. FIXTURE LOCATIONS ARE DIAGRAMMATIC. THE INTENT IS TO ALIGN, CENTER, OR SPACE FIXTURES BETWEEN ARCHITECTURAL AND LANDSCAPE ELEMENTS.
3. ALL LANDSCAPE OR EXTERIOR BUILDING LIGHTING SHALL BE CONTROLLED VIA THE LIGHTING CONTROL SYSTEM.
4. REFER TO ARCHITECTURAL EXTERIOR ELEVATIONS FOR ALL FIXTURE LOCATIONS ON THE EXTERIOR OF THE BUILDING. FIXTURE LOCATIONS ARE DIAGRAMMATIC. THE INTENT IS TO ALIGN, CENTER, OR SPACE FIXTURES BETWEEN ARCHITECTURAL AND STRUCTURAL ELEMENTS.
5. PROVIDE A MINIMUM 1" PVC CONDUIT FOR ALL UNDERGROUND BRANCH CIRCUITS. ALL 90DEGREE ELBOWS SHALL BE PVC COATED RIGID.
6. ALL BACK BOXES SHALL BE FLUSH MOUNTED UNLESS NOTED OTHERWISE. ALL VERTICAL SECTIONS OF CONDUIT SHALL BE CONCEALED. CONTRACTOR SHALL COORDINATE INSTALLATION OF CONDUIT AND BACK BOXES IN CONCRETE, MASONRY AND GYP. WALLS.
7. ALL WORK INDICATED ON THIS SHEET IS CONSIDERED PHASE 1 SCOPE OF WORK.

KEYNOTES

- E20 PROVIDE 120V/1P ELECTRICAL CONNECTION FOR FIRE PIT/FIRE BOWL ON SITE. REFER TO LANDSCAPE DRAWINGS FOR EXACT CONNECTION REQUIREMENTS AND LOCATION. CONTROL THROUGH THE LIGHTING CONTROL SYSTEM. PROVIDE OVERRIDE ABILITY TO POWER OFF VIA EPO LOCATED ON SITE.
- E21 PROVIDE EMERGENCY POWER OFF BUTTON FOR SITE FIRE BOWL GAS CONNECTIONS. REFER TO PLUMBING DRAWINGS FOR EXACT CONNECTION LOCATION FOR VALVE SHUTOFF TO TIE BACK TO EPO. THIS EPO SHALL SHUT OFF ALL FIRE BOWL LOCATIONS.
- E22 PROVIDE EMERGENCY POWER OFF BUTTON FOR SITE FIRE PIT GAS CONNECTION. REFER TO PLUMBING DRAWINGS FOR EXACT CONNECTION LOCATION FOR VALVE SHUTOFF TO TIE BACK TO EPO. THIS EPO SHALL SHUT OFF THE LARGE FIRE PIT.
- E24 PROVIDE SITE POWER PEDESTAL WITH (1) QUAD NEMA 3R 5-20R RECEPTACLE AND (1) EPO. ELECTRICAL DEVICES SHALL HAVE DEDICATED CIRCUITS. RE: DETAIL 1 ON SHEET 1A-E8.002. COORDINATE EXACT LOCATION WITH LANDSCAPE PRIOR TO INSTALLATION.
- E25 PROVIDE SITE POWER PEDESTAL WITH (1) QUAD NEMA 3R 5-20R RECEPTACLE AND (1) CS3899. ELECTRICAL DEVICES SHALL HAVE DEDICATED CIRCUITS. RE: DETAIL 2 ON SHEET 1A-E8.002. COORDINATE EXACT LOCATION WITH LANDSCAPE PRIOR TO INSTALLATION.
- E26 PROVIDE SITE POWER PEDESTAL WITH (1) QUAD NEMA 3R 5-20R RECEPTACLE AND (1) CS3899. ELECTRICAL DEVICES SHALL HAVE DEDICATED CIRCUITS. RE: DETAIL 3 ON SHEET 1A-E8.002. COORDINATE EXACT LOCATION WITH LANDSCAPE PRIOR TO INSTALLATION.
- E27 PROVIDE SITE POWER PEDESTAL WITH (1) EPO. ELECTRICAL DEVICES SHALL HAVE DEDICATED CIRCUITS. RE: DETAIL 4 ON SHEET 1A-E8.002. COORDINATE EXACT LOCATION WITH LANDSCAPE PRIOR TO INSTALLATION.
- E28 PROVIDE SITE POWER PEDESTAL WITH (2) QUAD NEMA 3R 5-20R RECEPTACLES. ELECTRICAL DEVICES SHALL HAVE DEDICATED CIRCUITS. RE: DETAIL 5 ON SHEET 1A-E8.002. COORDINATE EXACT LOCATION WITH LANDSCAPE PRIOR TO INSTALLATION.
- E29 PROVIDE 120V/20A CONNECTION TO SIGNAGE ELEMENT. REFER TO ARCHITECTURAL AND LANDSCAPE DRAWINGS FOR EXACT LOCATION. VERIFY ELECTRICAL CONNECTION TYPE WITH MANUFACTURER SIGNAGE SUBMITTALS.
- K3 PROVIDE SINGLE ZONE DISTRIBUTED ROOM CONTROLLER FOR LIGHTING CONTROL WITHIN THIS SPACE. ROOM CONTROLLER SHALL HAVE ON/OFF RELAY CONTROL AND DIMMING FUNCTIONALITY. ROOM CONTROLLER SHALL BE MOUNTED INSIDE BUILDING OR WITHIN NEMA 3R ENCLOSURE ON SITE. REFER TO LIGHT FIXTURE SCHEDULE FOR EXACT DIMMING TECHNOLOGY BEING USED ON A PER LIGHT FIXTURE BASIS. PROVIDE NETWORK CONNECTION FOR THIS ROOM CONTROLLER TO THE OVERALL NETWORKED LIGHTING CONTROL SYSTEM. REFER TO DETAIL 13/1A-E8.003 FOR MORE INFORMATION.
- K6 PROVIDE DUPLEX RECEPTACLE MOUNTED IN BASE OF LIGHT POLE LOCATED BEHIND IN-USE COVER. ROUTE CIRCUIT THROUGH LIGHTING CONTROL RELAY FOR RELAY CONTROL OF FIXTURE AT POLE BASE. COORDINATE WITH MANUFACTURER FOR EXACT ORIENTATION OF DEVICE IN RELATION TO SITE ORIENTATION AND POLE HAND HOLE.
- K7 PROVIDE WP/GFCI DUPLEX RECEPTACLE WITH IN-USE COVER LOCATED AT BASE OF TREE MOUNTED TO UNISTRUT FOR HOLIDAY TREE LIGHTING CONNECTION. PROVIDE (1) DUPLEX PER (2) TREES. ROUTE CIRCUIT THROUGH LIGHTING CONTROL RELAY FOR RELAY CONTROL OF FIXTURE AT DEVICE. COORDINATE WITH LANDSCAPE DESIGNER AND ARCHITECT FOR EXACT ORIENTATION & LOCATION OF DEVICE.

KEY PLAN

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07/01/2021

Steamboat.

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Date Description

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Project Name

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IMPROVEMENTS

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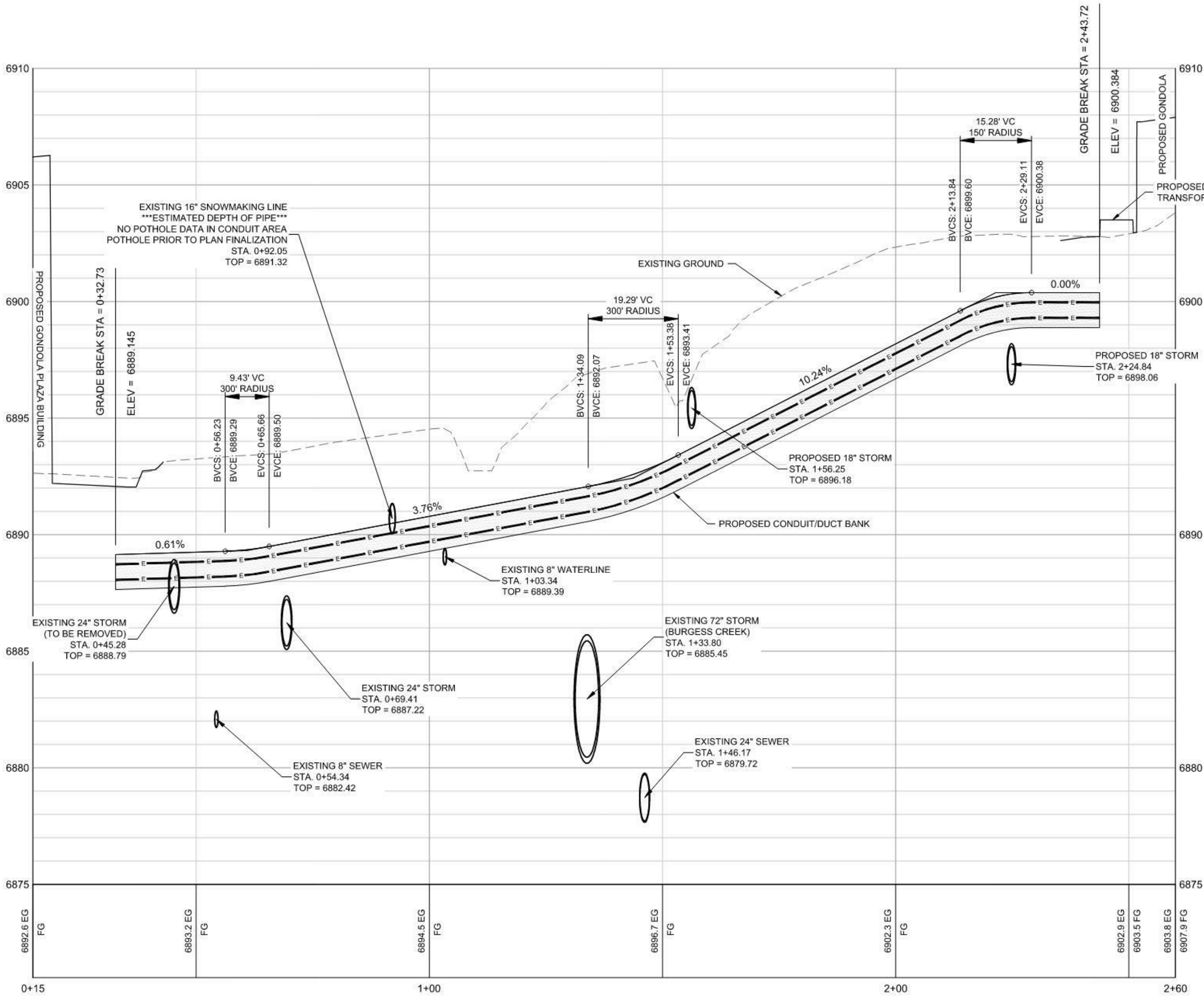
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PROMENADE - ELECTRICAL SITE
PLAN

Scale

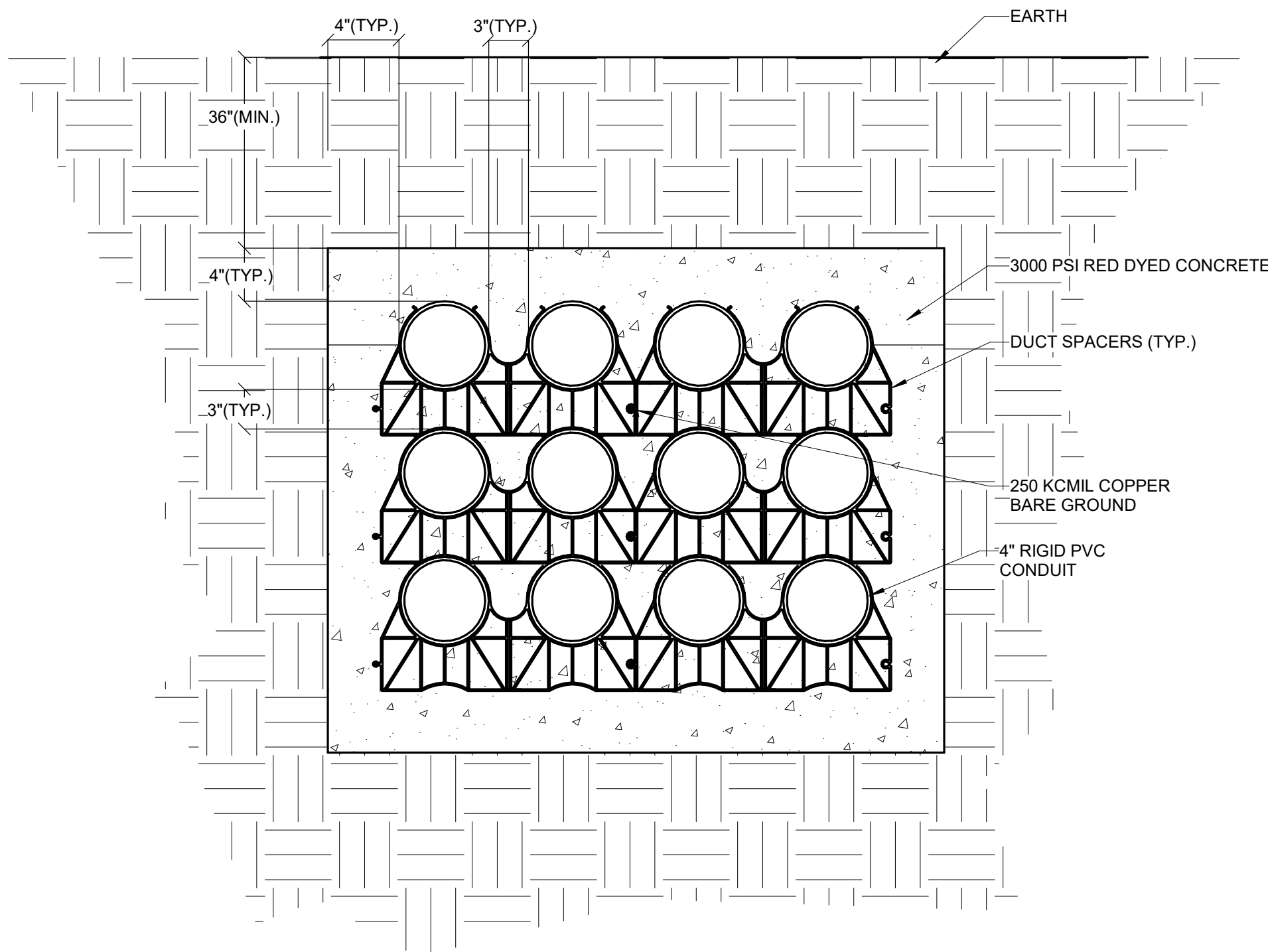
1" = 10'-0"

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2 SECONDARY DUCT BANK PROFILE (FOR REFERENCE ONLY)

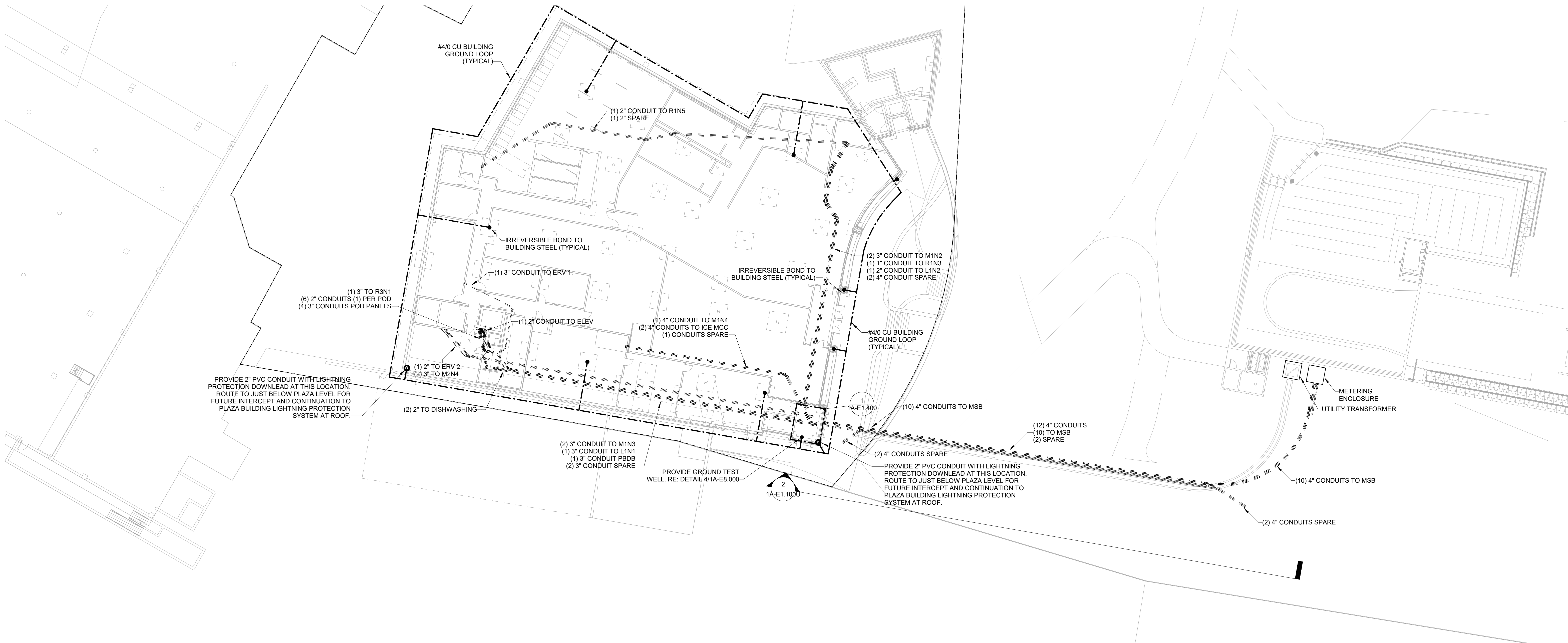
SCALE: 1/8" = 1'-0"



- SECTION**
- DUCT BANK SHALL BE CONCRETE ENCASED WITH A MINIMUM OF 4" OF COVER ON ALL OUTSIDE EDGES (MINIMUM 3000 PSI RED DYED CONCRETE).
 - CONTRACTOR SHALL PROVIDE DUCT SPACERS EVERY 2'-6" FOR ALL UNDERGROUND CONDUIT (PVC).
 - CONTRACTOR SHALL SUBMIT SHOP DRAWINGS TO ENGINEER PRIOR TO PROCEEDING WITH WORK.

3 DUCT BANK

SCALE: NO SCALE



1 ELECTRICAL UNDERGROUND SITE PLAN

SCALE: 1" = 20'-0"

GENERAL NOTES:

- REFER TO SHEET 1A-E0.002 FOR LIGHTING FIXTURE SCHEDULE.
- REFER TO LANDSCAPE DRAWINGS FOR ALL SITE FIXTURE LOCATIONS MOUNTED IN HARDSCAPE OR SOFTSCAPE. FIXTURE LOCATIONS ARE DIAGRAMMATIC. THE INTENT IS TO ALIGN, CENTER, OR SPACE FIXTURES BETWEEN ARCHITECTURAL AND LANDSCAPE ELEMENTS.
- ALL LANDSCAPE OR EXTERIOR BUILDING LIGHTING SHALL BE CONTROLLED VIA THE LIGHTING CONTROL SYSTEM.
- REFER TO ARCHITECTURAL EXTERIOR ELEVATIONS FOR ALL FIXTURE LOCATIONS ON THE EXTERIOR OF THE BUILDING. FIXTURE LOCATIONS ARE DIAGRAMMATIC. THE INTENT IS TO ALIGN, CENTER, OR SPACE FIXTURES BETWEEN ARCHITECTURAL AND STRUCTURAL ELEMENTS.
- PROVIDE A MINIMUM 1" PVC CONDUIT FOR ALL UNDERGROUND BRANCH CIRCUITS. ALL 90DEGREE ELBOWS SHALL BE PVC COATED RIGID.
- ALL BACK BOXES SHALL BE FLUSH MOUNTED UNLESS NOTED OTHERWISE. ALL VERTICAL SECTIONS OF CONDUIT SHALL BE CONCEALED. CONTRACTOR SHALL COORDINATE INSTALLATION OF CONDUIT AND BACK BOXES IN CONCRETE, MASONRY AND GYP. WALLS.
- ALL WORK INDICATED ON THIS SHEET IS CONSIDERED PHASE 1 SCOPE OF WORK.

KEYNOTES

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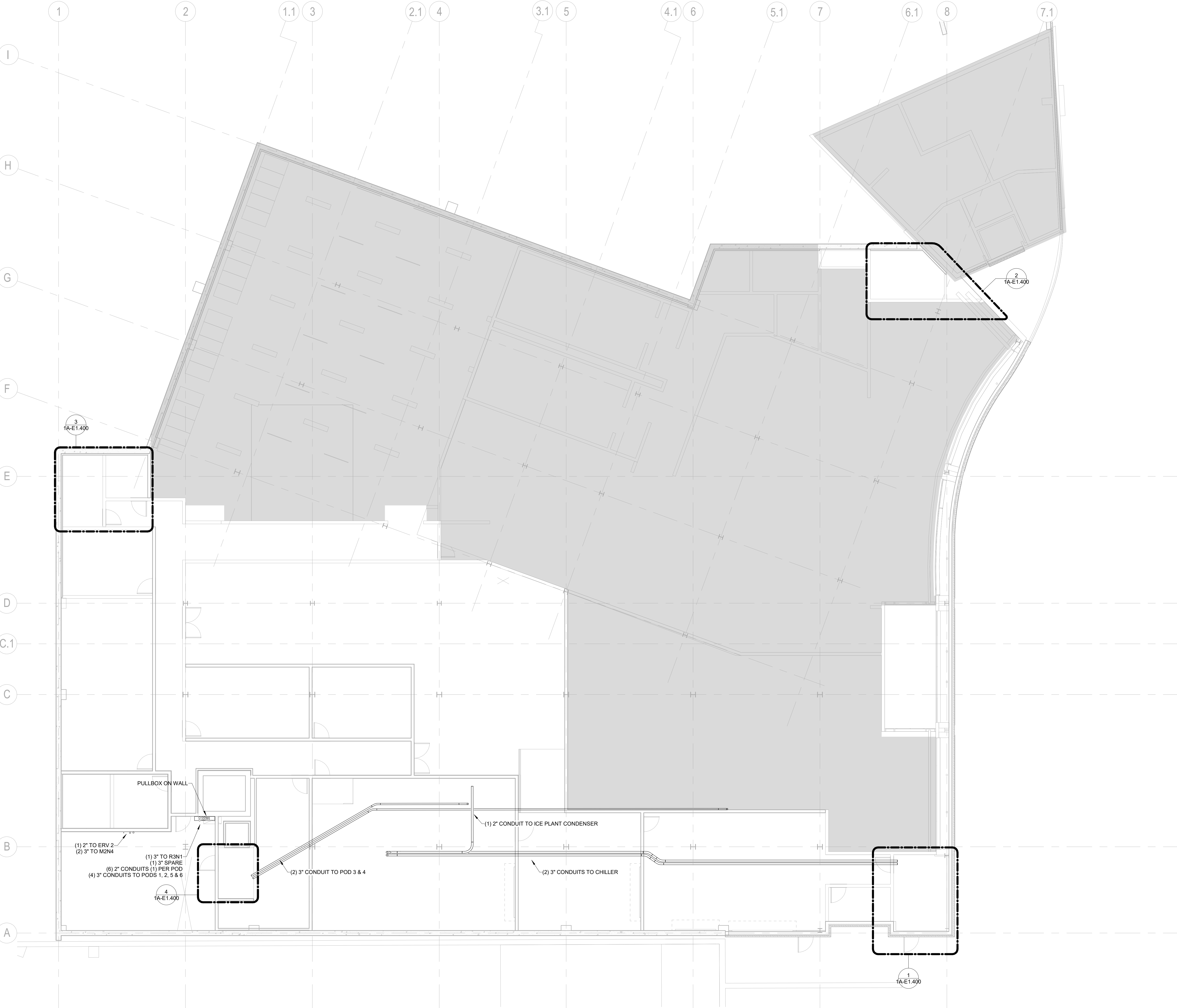
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Project Number
003.7835.000

Description
PROMENADE - ELECTRICAL UNDERGROUND CONDUIT PLAN

Scale
As indicated

1A-E1.100U



GENERAL NOTES:

1. ELECTRICAL CONTRACTOR SHALL COORDINATE EXACT LOCATION OF ALL MECHANICAL UNITS WITH MECHANICAL CONTRACTOR.

2. ALL EXPOSED CONDUIT SHALL BE ROUTED PERPENDICULAR, PARALLEL, AND TIGHT TO COLUMNS AND BEAMS. ALL EXPOSED CONDUIT ROUTING SHALL BE COORDINATED WITH THE ARCHITECT PRIOR TO INSTALLATION AND INSTALLED IN A NEAT AND CONSISTENT MANNER. NO ADDITIONAL COST TO OWNER WILL BE ALLOWED FOR RELOCATING CONDUIT DUE TO THE LACK OF COORDINATION WITH ARCHITECT. ALL SURFACE MOUNTED CONDUIT WHERE EXPOSED TO PUBLIC AREAS SHALL BE PAINTED. PAINT COLOR TO BE DETERMINED BY THE ARCHITECT. CONTRACTOR SHALL PROVIDE SHOP DRAWINGS INDICATING ALL PROPOSED EXPOSED CONDUIT ROUTING.

3. ALL BACK BOXES SHALL BE FLUSH MOUNTED UNLESS NOTED OTHERWISE. ALL VERTICAL SECTIONS OF CONDUIT SHALL BE CONCEALED. CONTRACTOR SHALL COORDINATE INSTALLATION OF CONDUIT AND BACK BOXES IN CONCRETE, MASONRY AND GYP. WALLS.

4. THIS CONTRACTOR SHALL REFER TO "MEP" SERIES DRAWINGS FOR ALL MECHANICAL EQUIPMENT ELECTRICAL CONNECTIONS.

5. CIRCUITS TO ALL MECHANICAL EQUIPMENT SHALL BE DEDICATED UNLESS NOTED OTHERWISE.

6. ALL 277V LIGHTING CIRCUITS TERMINATING AT LIGHTING CONTROL PANELS SHALL HAVE A MINIMUM LENGTH OF 20 FEET BETWEEN LIGHTING CONTROL PANEL AND BRANCH LIGHTING PANEL.

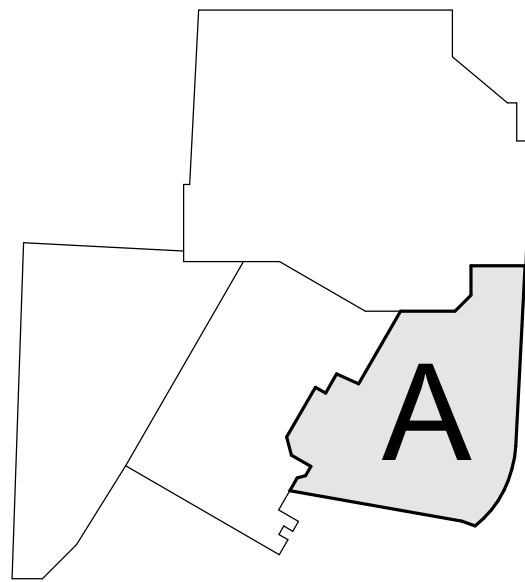
7. REPLACE ALL FIRE ALARM DEVICES IN KIND IN STAGE BUILDING RESTROOM TO ENSURE THE DEVICES INTEGRATE WITH PROMENADE FIRE ALARM SYSTEM.

KEYNOTES

**RCRBD
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Electrical**

07/01/2021

KEY PLAN



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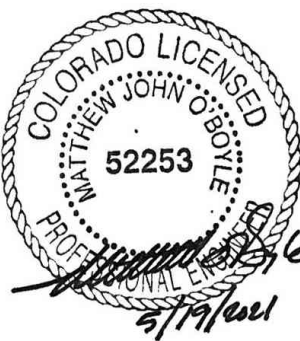
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Project Name

**SSRC | BASE AREA
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Project Number

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Description

**PROMENADE - ELECTRICAL CONDUIT
PLAN - LEVEL 00**

Scale

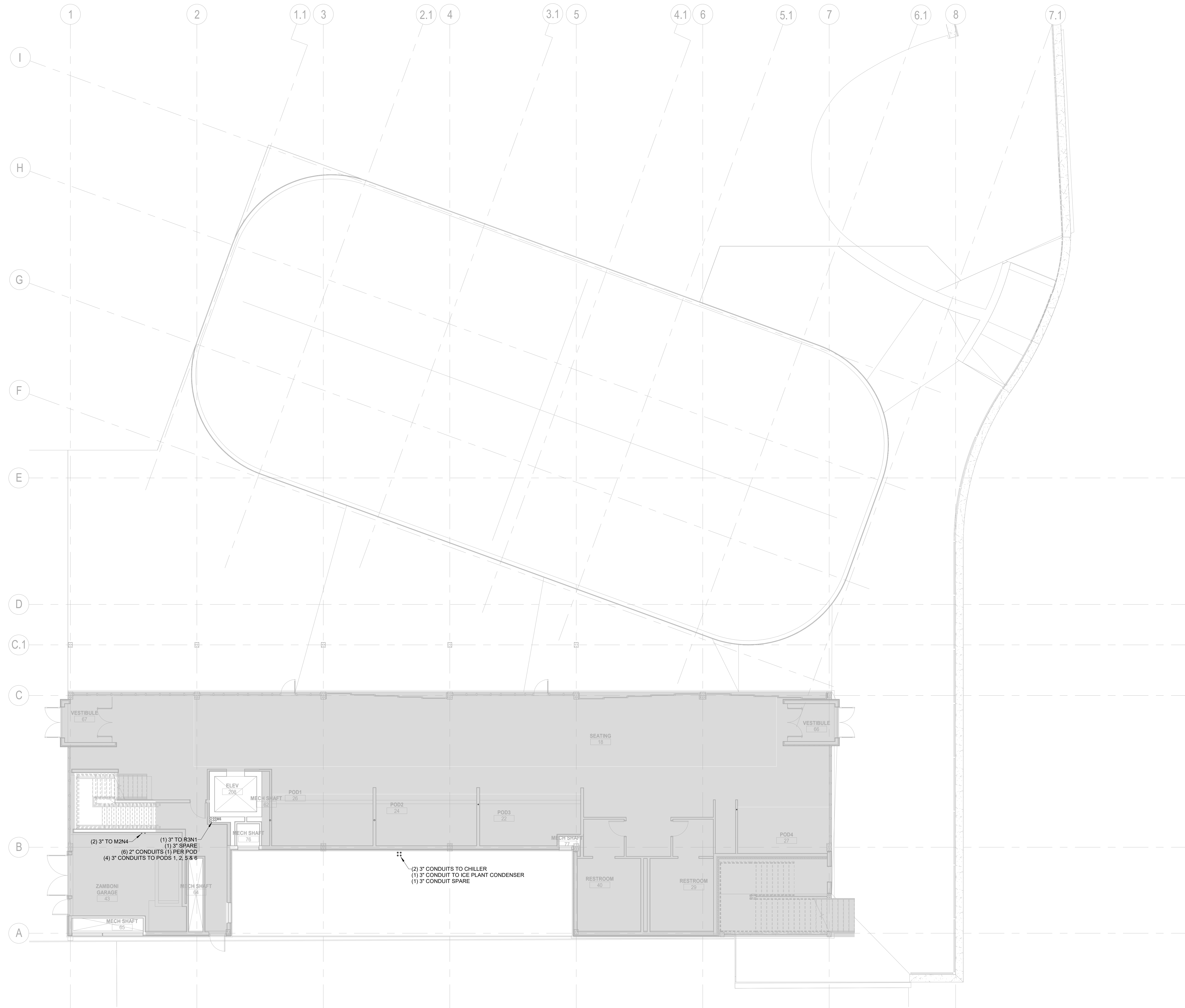
1/8" = 1'-0"

1A-E1.100

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1 **ELECTRICAL CONDUIT PLAN - LOWER LEVEL 00 PROMENADE**

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



GENERAL NOTES:

1. ELECTRICAL CONTRACTOR SHALL COORDINATE EXACT LOCATION OF ALL MECHANICAL UNITS WITH MECHANICAL CONTRACTOR.

2. ALL EXPOSED CONDUIT SHALL BE ROUTED PERPENDICULAR, PARALLEL, AND TIGHT TO COLUMNS AND BEAMS. ALL EXPOSED CONDUIT ROUTING SHALL BE COORDINATED WITH THE ARCHITECT PRIOR TO INSTALLATION AND INSTALLED IN A NEAT AND CONSISTENT MANNER. NO ADDITIONAL COST TO OWNER WILL BE ALLOWED FOR RELOCATING CONDUIT DUE TO THE LACK OF COORDINATION WITH ARCHITECT. ALL SURFACE MOUNTED CONDUIT WHERE EXPOSED TO PUBLIC AREAS SHALL BE PAINTED. PAINT COLOR TO BE DETERMINED BY THE ARCHITECT. CONTRACTOR SHALL PROVIDE SHOP DRAWINGS INDICATING ALL PROPOSED EXPOSED CONDUIT ROUTING.

3. ALL BACK BOXES SHALL BE FLUSH MOUNTED UNLESS NOTED OTHERWISE. ALL VERTICAL SECTIONS OF CONDUIT SHALL BE CONCEALED. CONTRACTOR SHALL COORDINATE INSTALLATION OF CONDUIT AND BACK BOXES IN CONCRETE, MASONRY AND GYP. WALLS.

4. THIS CONTRACTOR SHALL REFER TO "MEP" SERIES DRAWINGS FOR ALL MECHANICAL EQUIPMENT ELECTRICAL CONNECTIONS.

5. CIRCUITS TO ALL MECHANICAL EQUIPMENT SHALL BE DEDICATED UNLESS NOTED OTHERWISE.

6. ALL 277V LIGHTING CIRCUITS TERMINATING AT LIGHTING CONTROL PANELS SHALL HAVE A MINIMUM LENGTH OF 20 FEET BETWEEN LIGHTING CONTROL PANEL AND BRANCH LIGHTING PANEL.

7. REPLACE ALL FIRE ALARM DEVICES IN KIND IN STAGE BUILDING RESTROOM TO ENSURE THE DEVICES INTEGRATE WITH PROMENADE FIRE ALARM SYSTEM.

KEYNOTES

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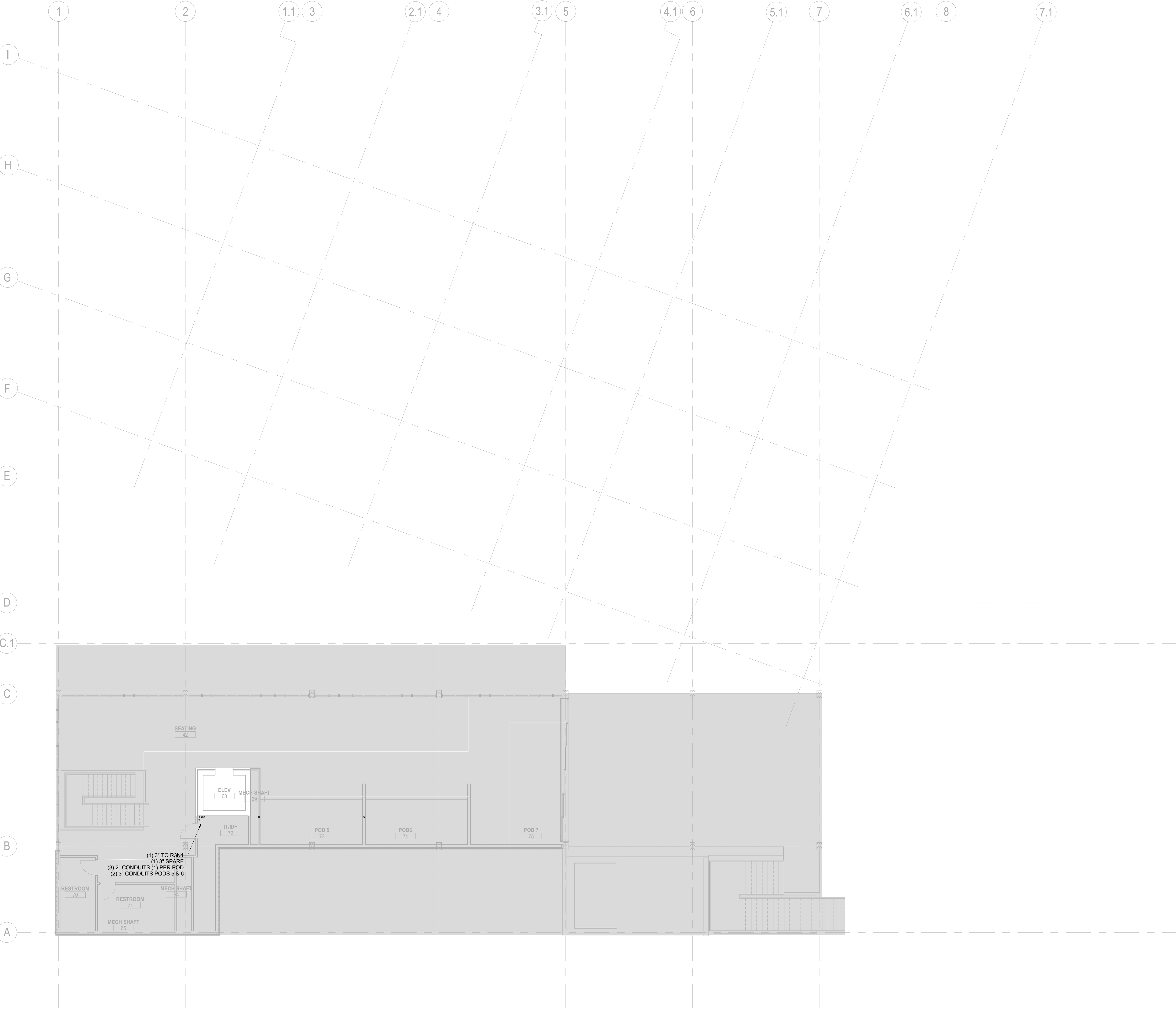
Project Name
SSRC | BASE AREA IMPROVEMENTS

Project Number
003.7835.000

Description
PROMENADE - ELECTRICAL CONDUIT PLAN - LEVEL 01

Scale
1/8" = 1'-0"

1A-E1.101



GENERAL NOTES:

1. ELECTRICAL CONTRACTOR SHALL COORDINATE EXACT LOCATION OF ALL MECHANICAL UNITS WITH MECHANICAL CONTRACTOR.

2. ALL EXPOSED CONDUIT SHALL BE ROUTED PERPENDICULAR, PARALLEL, AND TIGHT TO COLUMNS AND BEAMS. ALL EXPOSED CONDUIT ROUTING SHALL BE COORDINATED WITH THE ARCHITECT PRIOR TO INSTALLATION AND INSTALLED IN A NEAT AND CONSISTENT MANNER. NO ADDITIONAL COST TO OWNER WILL BE ALLOWED FOR RELOCATING CONDUIT DUE TO THE LACK OF COORDINATION WITH ARCHITECT. ALL SURFACE MOUNTED CONDUIT WHERE EXPOSED TO PUBLIC AREAS SHALL BE PAINTED. PAINT COLOR TO BE DETERMINED BY THE ARCHITECT. CONTRACTOR SHALL PROVIDE SHOP DRAWINGS INDICATING ALL PROPOSED EXPOSED CONDUIT ROUTING.

3. ALL BACK BOXES SHALL BE FLUSH MOUNTED UNLESS NOTED OTHERWISE. ALL VERTICAL SECTIONS OF CONDUIT SHALL BE CONCEALED. CONTRACTOR SHALL COORDINATE INSTALLATION OF CONDUIT AND BACK BOXES IN CONCRETE, MASONRY AND GYP. WALLS.

4. THIS CONTRACTOR SHALL REFER TO "MEP" SERIES DRAWINGS FOR ALL MECHANICAL EQUIPMENT ELECTRICAL CONNECTIONS.

5. CIRCUITS TO ALL MECHANICAL EQUIPMENT SHALL BE DEDICATED UNLESS NOTED OTHERWISE.

6. ALL 277V LIGHTING CIRCUITS TERMINATING AT LIGHTING CONTROL PANELS SHALL HAVE A MINIMUM LENGTH OF 20 FEET BETWEEN LIGHTING CONTROL PANEL AND BRANCH LIGHTING PANEL.

7. REPLACE ALL FIRE ALARM DEVICES IN KIND IN STAGE BUILDING RESTROOM TO ENSURE THE DEVICES INTEGRATE WITH PROMENADE FIRE ALARM SYSTEM.

KEYNOTES

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Record Set
Electrical**

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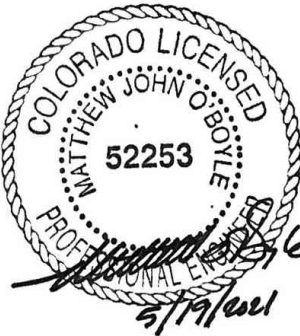
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△	Date	Description
-	2021.05.19	BP3: PROMENADE - ISSUE FOR BID AND PERMIT

Seal / Signature



Project Name

SSRC | BASE AREA
IMPROVEMENTS

Project Number

003.7835.000

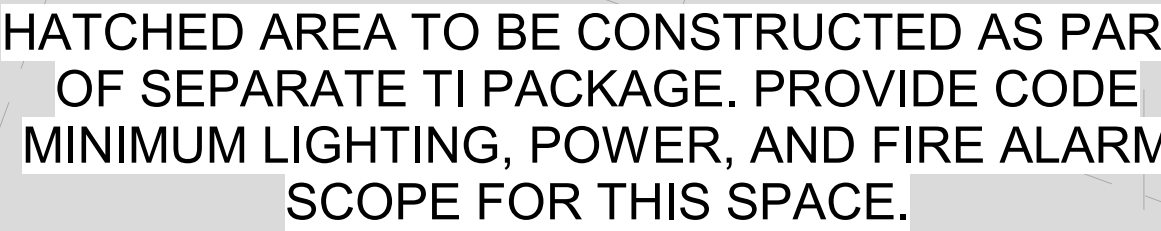
Description

PROMENADE - ELECTRICAL CONDUIT
PLAN - LEVEL 02

Scale

1/8" = 1'-0"

1A-E1.102

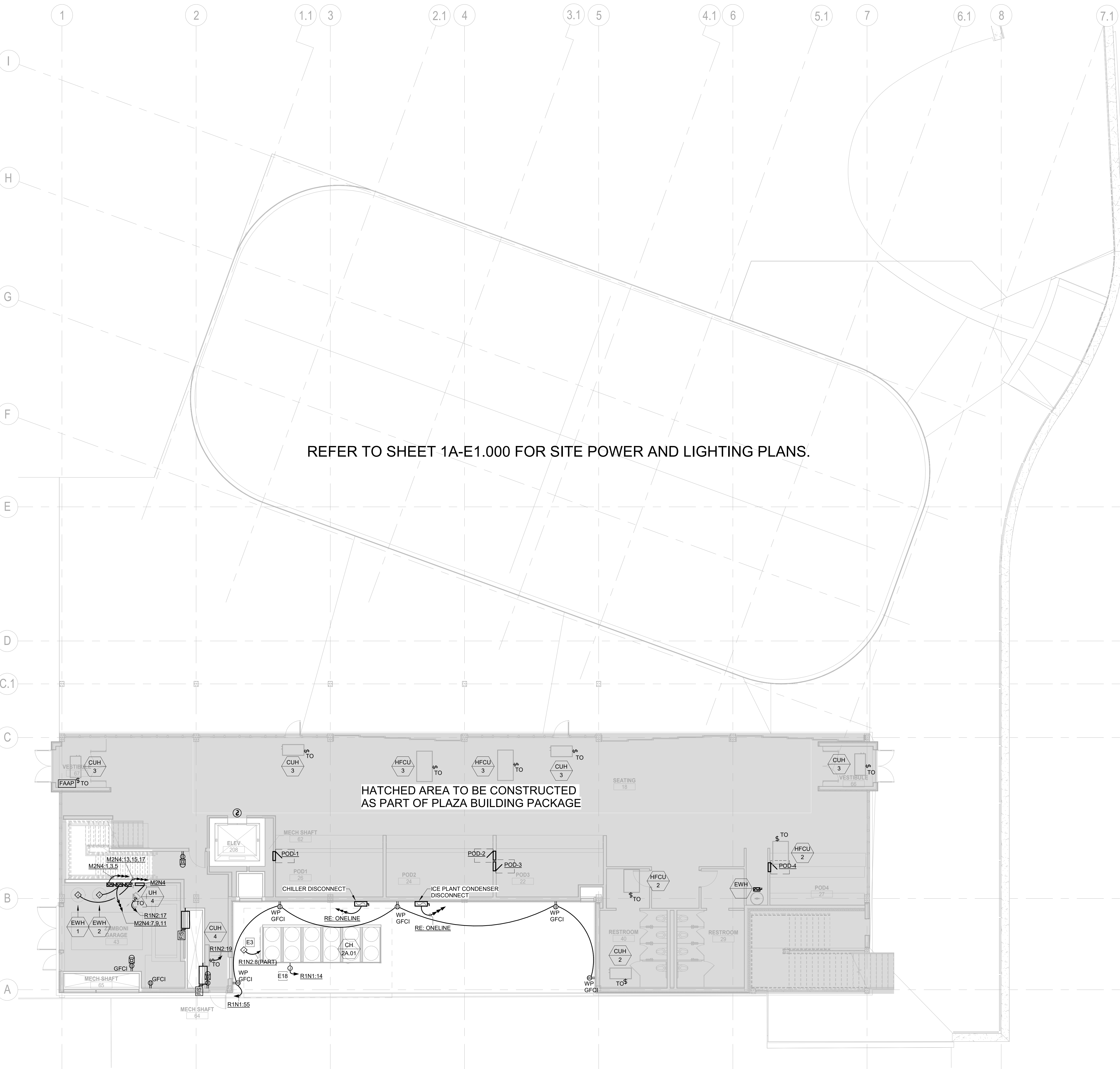


07/01/2021

E23	THERE SHALL BE NO OVERHEAD DUCT WORK, DRAINS, OR FOREIGN OBJECTS AS DEFINED BY THE NEC IN THIS SPACE.
-----	---

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GENERAL NOTES:

1. ELECTRICAL CONTRACTOR SHALL COORDINATE EXACT LOCATION OF ALL MECHANICAL UNITS WITH MECHANICAL CONTRACTOR.
2. ALL EXPOSED CONDUIT SHALL BE ROUTED PERPENDICULAR, PARALLEL, AND TIGHT TO COLUMNS AND BEAMS. ALL EXPOSED CONDUIT ROUTING SHALL BE COORDINATED WITH THE ARCHITECT PRIOR TO INSTALLATION AND INSTALLED IN A NEAT AND CONSISTENT MANNER. NO ADDITIONAL COST TO OWNER WILL BE ALLOWED FOR RELOCATING CONDUIT DUE TO THE LACK OF COORDINATION WITH ARCHITECT. ALL SURFACE MOUNTED CONDUIT WHERE EXPOSED TO PUBLIC AREAS SHALL BE PAINTED. PAINT COLOR TO BE DETERMINED BY THE ARCHITECT. CONTRACTOR SHALL PROVIDE SHOP DRAWINGS INDICATING ALL PROPOSED EXPOSED CONDUIT ROUTING.
3. ALL BACK BOXES SHALL BE FLUSH MOUNTED UNLESS NOTED OTHERWISE. ALL VERTICAL SECTIONS OF CONDUIT SHALL BE CONCEALED. CONTRACTOR SHALL COORDINATE INSTALLATION OF CONDUIT AND BACK BOXES IN CONCRETE, MASONRY AND GYP. WALLS.
4. THIS CONTRACTOR SHALL REFER TO "MEP" SERIES DRAWINGS FOR ALL MECHANICAL EQUIPMENT ELECTRICAL CONNECTIONS.
5. CIRCUITS TO ALL MECHANICAL EQUIPMENT SHALL BE DEDICATED UNLESS NOTED OTHERWISE.
6. ALL 277V LIGHTING CIRCUITS TERMINATING AT LIGHTING CONTROL PANELS SHALL HAVE A MINIMUM LENGTH OF 20 FEET BETWEEN LIGHTING CONTROL PANEL AND BRANCH LIGHTING PANEL.
7. REPLACE ALL FIRE ALARM DEVICES IN KIND IN STAGE BUILDING RESTROOM TO ENSURE THE DEVICES INTEGRATE WITH PROMENADE FIRE ALARM SYSTEM.

KEYNOTES

E3	PROVIDE 120V/1P ELECTRICAL CONNECTION FOR MISCELLANEOUS MECHANICAL CONTROLS.
E18	PROVIDE 120V/1P CONNECTION FOR PIPING HEAT TRACE. PROVIDE GFPE TYPE BREAKER AT PANEL. REFER TO PLUMBING MECHANICAL DRAWINGS FOR EXACT LENGTH AND HEAT TRACE ROUTING.

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Record Set
Electrical
07/01/2021

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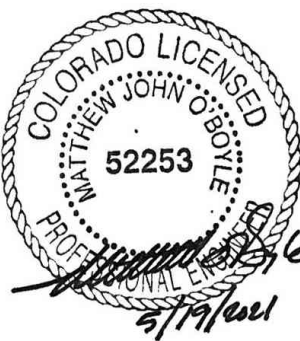
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2021.05.19	BP3: PROMENADE - ISSUE FOR BID AND PERMIT

Seal / Signature



Project Name

SSRC | BASE AREA
IMPROVEMENTS

Project Number

003.7835.000

Description

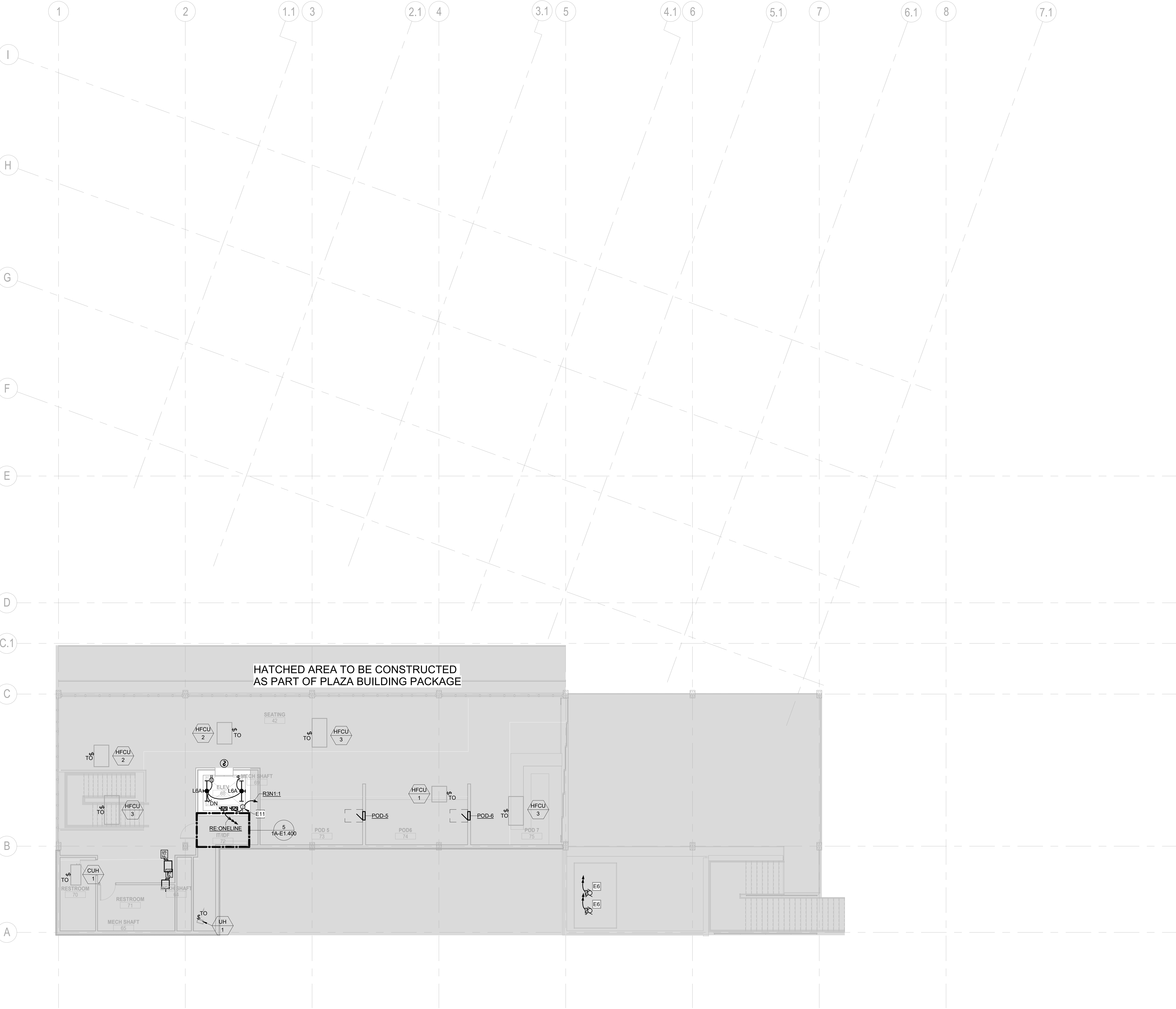
PROMENADE - ELECTRICAL PLAN -
LEVEL 01

Scale

1/8" = 1'-0"

1A-E1.201

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GENERAL NOTES:

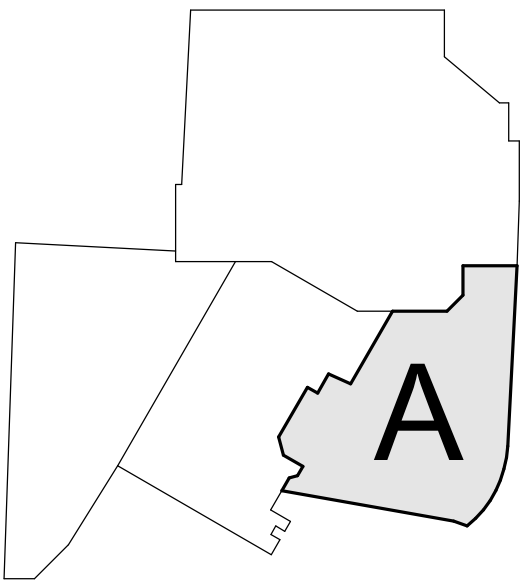
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7. REPLACE ALL FIRE ALARM DEVICES IN KIND IN STAGE BUILDING RESTROOM TO ENSURE THE DEVICES INTEGRATE WITH PROMENADE FIRE ALARM SYSTEM.

KEYNOTES

- | | |
|-----|---|
| E6 | PROVIDE 208V ELECTRICAL CONNECTION FOR WALK-IN COOLER CONDENSING UNIT. COORDINATE EXACT LOCATION AND QUANTITY WITH WALK-IN COOLER MANUFACTURER. |
| E11 | PROVIDE LIGHTING INVERTER 10TA (15-550V) OR APPROVED EQUAL FOR BRANCH CIRCUIT EMERGENCY LIGHTING. INVERTER SHALL BE MOUNTED IN ACCESSIBLE LOCATION EITHER ABOVE ACCESSIBLE CEILING OR IN ADJACENT BACK OF HOUSE SPACE HIGH ON WALL. REFER TO 10/1A-E8.003 FOR EXACT WIRING CONFIGURATION WITH LIGHTING CONTROL AND INVERTER SYSTEM. |

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Record Set
Electrical
07/01/2021

KEY PLAN



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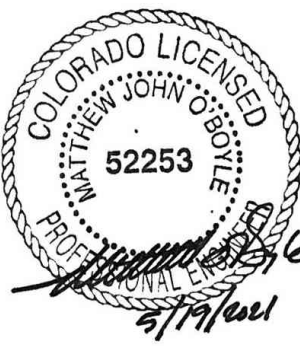
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Project Name

SSRC | BASE AREA
IMPROVEMENTS

Project Number

003.7835.000

Description

PROMENADE - ELECTRICAL PLAN -
LEVEL 02

Scale

1/8" = 1'-0"

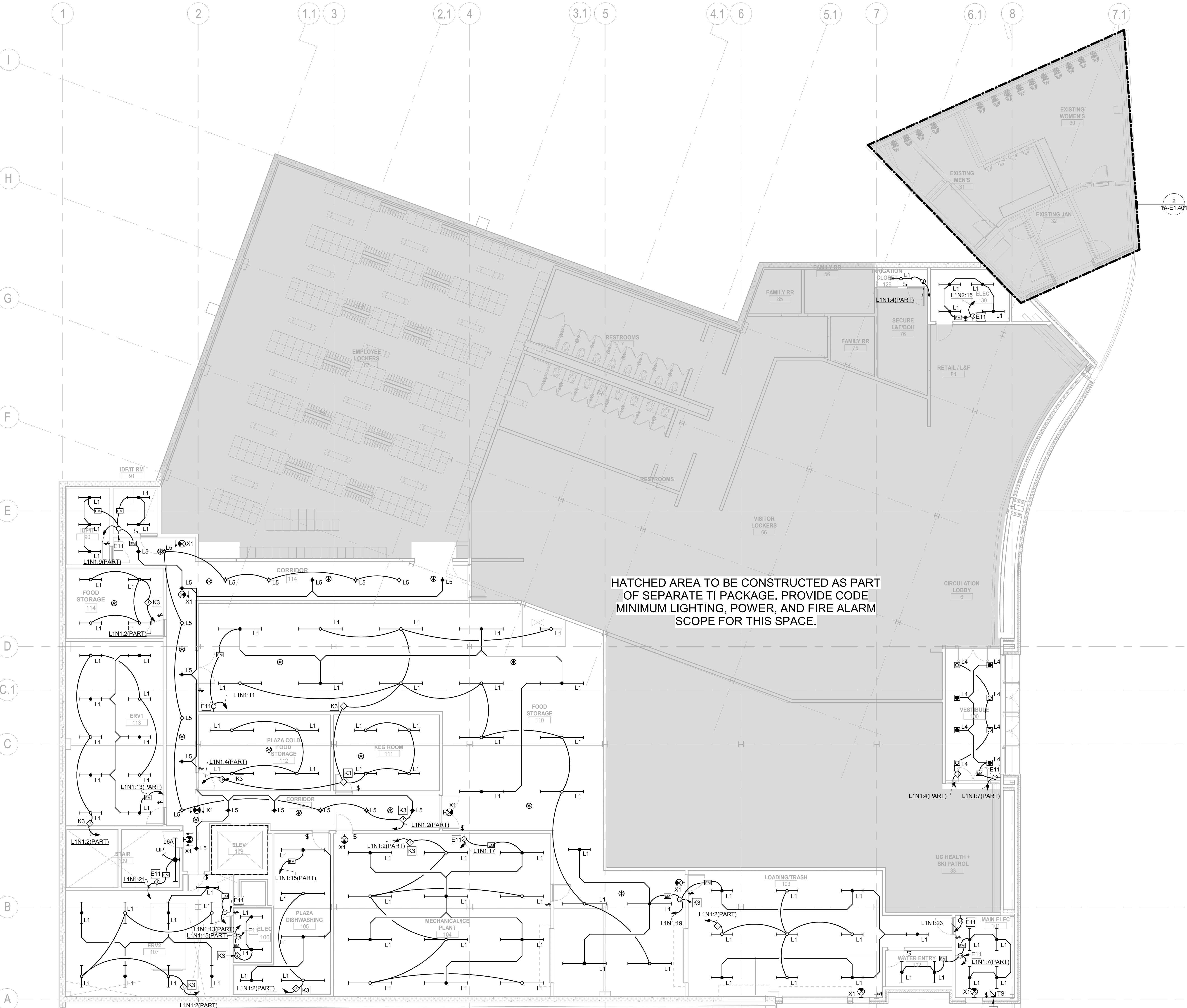
1A-E1.202

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1

ELECTRICAL PLAN - LEVEL 02 PLAZA

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



- GENERAL NOTES:**
1. REFER TO SHEET 1A-E0.002 FOR LIGHT FIXTURE SCHEDULE.
 2. REFER TO ARCHITECTURAL REFLECTED CEILING PLANS FOR ALL FIXTURE LOCATIONS WITHIN A CEILING OR CEILING GRID. FOR AREAS WITHOUT CEILINGS, FIXTURE LOCATIONS ARE DIAGRAMMATIC. THE INTENT IS TO ALIGN, CENTER, OR SPACE FIXTURES BETWEEN ARCHITECTURAL AND STRUCTURAL ELEMENTS.
 3. ALL EXPOSED CONDUIT SHALL BE ROUTED PERPENDICULAR, PARALLEL, AND TIGHT TO COLUMNS AND BEAMS. ALL EXPOSED CONDUIT ROUTING SHALL BE COORDINATED WITH THE ARCHITECT PRIOR TO INSTALLATION AND INSTALLED IN A NEAT AND CONSISTENT MANNER. NO ADDITIONAL COST TO OWNER WILL BE ALLOWED FOR RELOCATING CONDUIT DUE TO THE LACK OF COORDINATION WITH ARCHITECT. ALL SURFACE MOUNTED CONDUIT WHERE EXPOSED TO PUBLIC AREAS SHALL BE PAINTED. PAINT COLOR TO BE DETERMINED BY THE ARCHITECT. CONTRACTOR SHALL PROVIDE SHOP DRAWINGS INDICATING ALL PROPOSED EXPOSED CONDUIT ROUTING.
 4. PROVIDE DIMMABLE DRIVERS WHERE REQUIRED PER LIGHTING CONTROL.
 5. SEE ELECTRICAL NARRATIVE FOR ADDITIONAL INFORMATION REGARDING OVERALL LIGHTING EQUIPMENT ONLY COSTS. SF COST ALLOWANCES SHOWN ARE ESTIMATES OF ALLOCATIONS ONLY, AND WILL BE VALIDATED DURING FUTURE DESIGN PHASES.
 6. FIELD VERIFY EXACT FIXTURE LENGTHS FOR CONTINUOUS ILLUMINATION FOR COVES AND LINEAR RUNS. PROVIDE CONTINUOUS ILLUMINATION WITH NO MORE THAN A 6" GAP BETWEEN THE END OF THE EDGE OF THE WALL / CEILING AND THE FIXTURE.
 7. ELECTRICAL CONTRACTOR TO COORDINATE WITH MECHANICAL CONTRACTOR FOR PLACEMENT OF FIXTURES WITHIN MECHANICAL ROOMS.
 8. ALL EXIT LIGHTS OF ALL TYPES SHALL BE MOUNTED AT 8'-0" AFF UNLESS OTHERWISE NOTED. PROVIDE EXIT SIGNS IN ALL PATH OF EGRESS. THERE SHOULD NOT BE MORE THAN 80' SPACING BETWEEN EXIT SIGNS.
 9. A MINIMUM OF 30 FOOTCANDLES SHALL BE PROVIDED FOR ALL UNDEFINED SPACES.
 10. FIXTURES WITHIN THE FIRE COMMAND CENTER, ELECTRICAL TELECOMMUNICATION, MECHANICAL AND FIRE PUMP ROOMS SHALL HAVE EMERGENCY POWER BACKUP FROM AN INVERTOR.
 12. PROVIDE FIXTURES ON EMERGENCY POWER TO ACHIEVE 1FC AVERAGE AND 0.1 FC MINIMUM IN ALL EGRESS PATHS.
 14. ALL 277V LIGHTING CIRCUITS TERMINATING AT LIGHTING CONTROL PANELS SHALL HAVE A MINIMUM LENGTH OF 20 FEET BETWEEN LIGHTING CONTROL PANEL AND BRANCH LIGHTING PANEL.

KEYNOTES	
E11	PROVIDE LIGHTING INVERTER 10TA 10S-504 OR APPROVED EQUAL FOR BRANCH CIRCUIT EMERGENCY LIGHTING. INVERTER SHALL BE MOUNTED IN ACCESSIBLE LOCATION EITHER ABOVE ACCESSIBLE CEILING OR IN ADJACENT BACK OF HOUSE SPACE HIGH ON WALL. REFER TO 101A-E0.003 FOR EXACT WIRING CONFIGURATION WITH LIGHTING CONTROL AND INVERTER SYSTEM.
K3	PROVIDE SINGLE ZONE DISTRIBUTED ROOM CONTROLLER FOR LIGHTING CONTROL WITHIN THIS SPACE. ROOM CONTROLLER SHALL HAVE ON/OFF RELAY CONTROL AND DIMMING FUNCTIONALITY. ROOM CONTROLLER SHALL BE MOUNTED INSIDE BUILDING OR WITHIN NEMA 3R ENCLOSURE ON SITE. REFER TO LIGHT FIXTURE SCHEDULE FOR EXACT DIMMING TECHNOLOGY BEING USED ON A PER LIGHT FIXTURE BASIS. PROVIDE NETWORK CONNECTION FOR THIS ROOM CONTROLLER TO THE OVERALL NETWORKED LIGHTING CONTROL SYSTEM. REFER TO DETAIL 131A-E0.003 FOR MORE INFORMATION.
K5	PROVIDE BUILDING MASTER LIGHTING CONTROL TOUCHSCREEN FOR ENTIRE CONTROL OF ALL BUILDING LIGHTING.

Date	Description
2021.05.19	BP3: PROMENADE - ISSUE FOR BID AND PERMIT

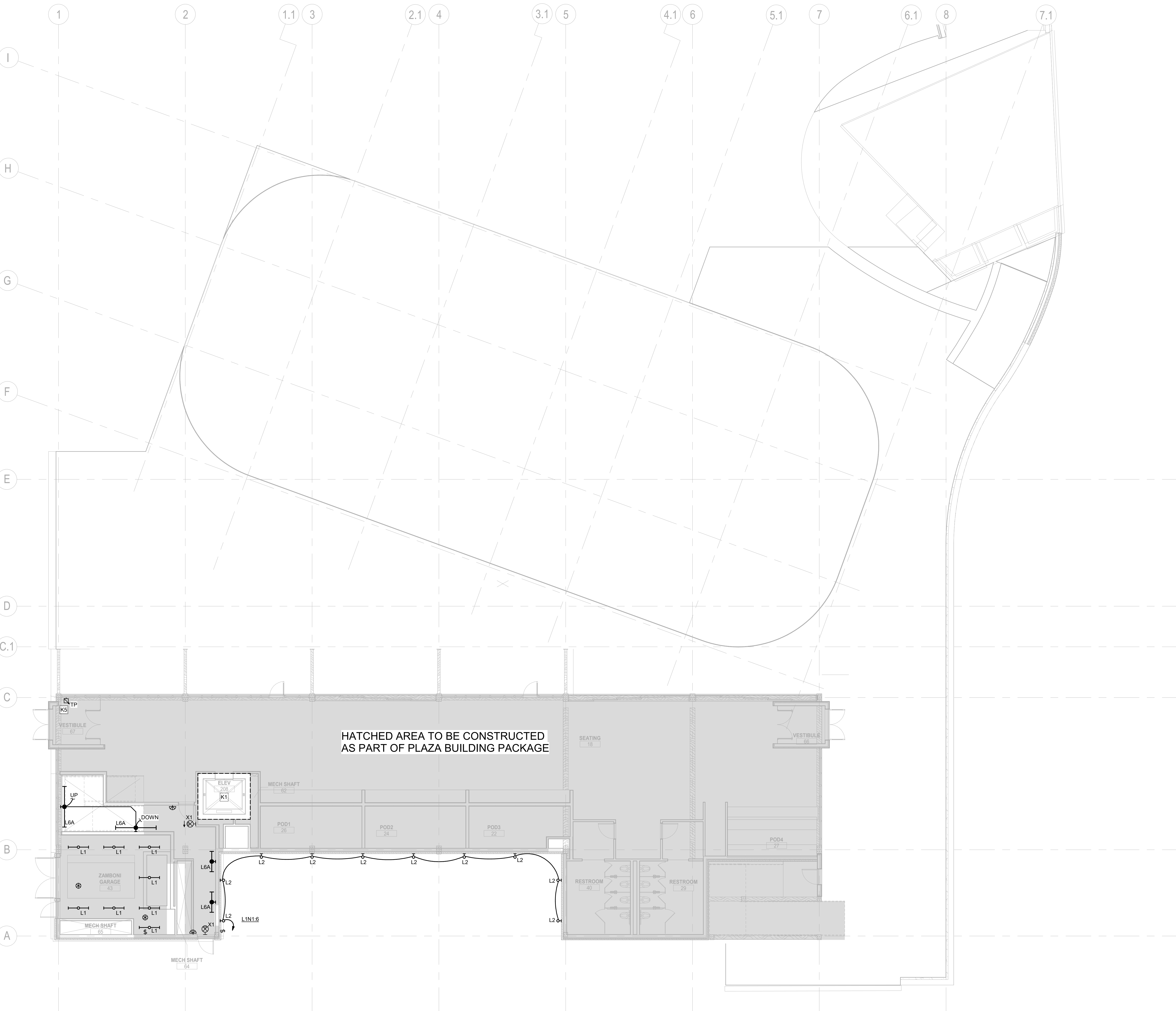
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Project Name	SSRC BASE AREA IMPROVEMENTS
Project Number	003.7835.000
Description	PROMENADE - LIGHTING PLAN - LEVEL 00

Scale	1/8" = 1'-0"
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1A-E1.300

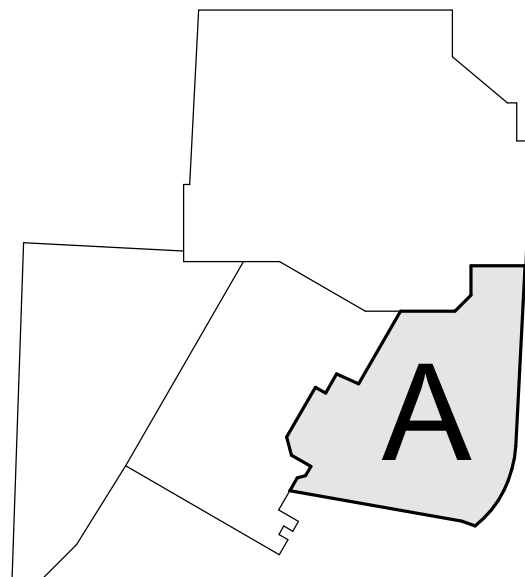


- GENERAL NOTES:**
1. REFER TO SHEET 1A-E0.002 FOR LIGHT FIXTURE SCHEDULE.
 2. REFER TO ARCHITECTURAL REFLECTED CEILING PLANS FOR ALL FIXTURE LOCATIONS WITHIN A CEILING OR CEILING GRID. FOR AREAS WITHOUT CEILINGS, FIXTURE LOCATIONS ARE DIAGRAMMATIC. THE INTENT IS TO ALIGN, CENTER, OR SPACE FIXTURES BETWEEN ARCHITECTURAL AND STRUCTURAL ELEMENTS.
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 5. SEE ELECTRICAL NARRATIVE FOR ADDITIONAL INFORMATION REGARDING OVERALL LIGHTING EQUIPMENT ONLY COSTS. SF COST ALL QUANTITIES SHOWN ARE ESTIMATES OF ALLOCATIONS ONLY, AND WILL BE VALIDATED DURING FUTURE DESIGN PHASES.
 6. FIELD VERIFY EXACT FIXTURE LENGTHS FOR CONTINUOUS ILLUMINATION FOR COVES AND LINEAR RUNS. PROVIDE CONTINUOUS ILLUMINATION WITH NO MORE THAN A 6" GAP BETWEEN THE END OF THE EDGE OF THE WALL / CEILING AND THE FIXTURE.
 7. ELECTRICAL CONTRACTOR TO COORDINATE WITH MECHANICAL CONTRACTOR FOR PLACEMENT OF FIXTURES WITHIN MECHANICAL ROOMS.
 8. ALL EXIT LIGHTS OF ALL TYPES SHALL BE MOUNTED AT 8'-0" AFF UNLESS OTHERWISE NOTED. PROVIDE EXIT SIGNS IN ALL PATH OF EGRESS. THERE SHOULD NOT BE MORE THAN 80' SPACING BETWEEN EXIT SIGNS.
 9. A MINIMUM OF 30 FOOTCANDLES SHALL BE PROVIDED FOR ALL UNDEFINED SPACES.
 10. FIXTURES WITHIN THE FIRE COMMAND CENTER, ELECTRICAL TELECOMMUNICATION, MECHANICAL AND FIRE PUMP ROOMS SHALL HAVE EMERGENCY POWER BACKUP FROM AN INVERTOR.
 12. PROVIDE FIXTURES ON EMERGENCY POWER TO ACHIEVE 1FC AVERAGE AND 0.1 FC MINIMUM IN ALL EGRESS PATHS.
 14. ALL 277V LIGHTING CIRCUITS TERMINATING AT LIGHTING CONTROL PANELS SHALL HAVE A MINIMUM LENGTH OF 20 FEET BETWEEN LIGHTING CONTROL PANEL AND BRANCH LIGHTING PANEL.

KEYNOTES	
K1	REFER TO ELECTRICAL POWER PLANS FOR ELEVATOR PIT LIGHTING AT TOP AND BOTTOM OF SHAFT.
K5	PROVIDE BUILDING MASTER LIGHTING CONTROL TOUCHSCREEN FOR ENTIRE CONTROL OF ALL BUILDING LIGHTING.

RCRBD
Record Set
Electrical
07/01/2021

KEY PLAN



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MOUNTAIN COMPANY

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△	Date	Description
-	2021.05.19	BP3: PROMENADE - ISSUE FOR BID AND PERMIT

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Project Name
SSRC | BASE AREA IMPROVEMENTS

Project Number
003.7835.000

Description
PROMENADE - LIGHTING PLAN - LEVEL 01

Scale
1/8" = 1'-0"

1. REFER TO SHEET 1A-E0.002 FOR LIGHT
FIXTURE SCHEDULE.

2. REFER TO ARCHITECTURAL REFLECTED CEILING PLANS FOR ALL FIXTURE LOCATIONS WITHIN A CEILING OR CEILING GRID. FOR AREAS WITHOUT CEILINGS, FIXTURE LOCATIONS ARE DIAGRAMMATIC. THE INTENT IS TO ALIGN, CENTER, OR SPACE FIXTURES BETWEEN ARCHITECTURAL AND STRUCTURAL ELEMENTS.

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TERMINATING AT LIGHTING CONTROL
PANELS SHALL HAVE A MINIMUM LENGTH
OF 20 FEET BETWEEN LIGHTING CONTROL
PANEL AND BRANCH LIGHTING PANEL.

KEYNOTES

K1	REFER TO ELECTRICAL POWER PLAN FOR ELEVATOR PIT LIGHTING AT TOP AND BOTTOM OF SHAFT
----	---

07/01/2021

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Seal / Signature



Project Name

SSRC | BASE AREA IMPROVEMENTS

Project Number

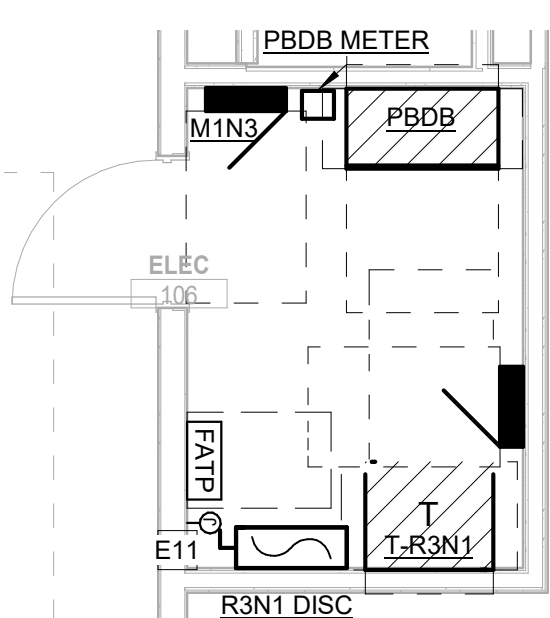
PROMENADE - LIGHTING PLAN -
LEVEL 02

Scale

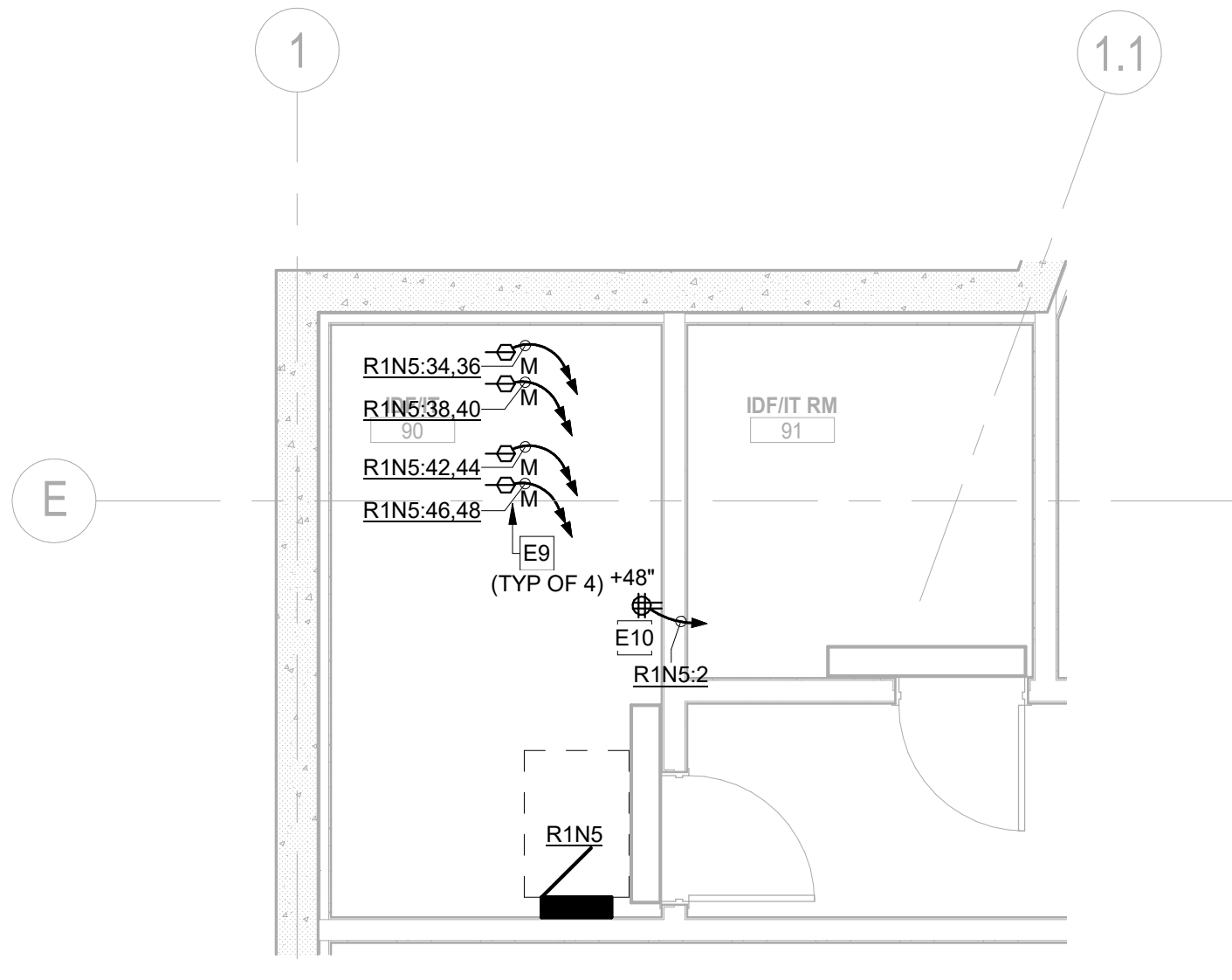
$$1/8'' = 1'-0''$$

1A-E1.302

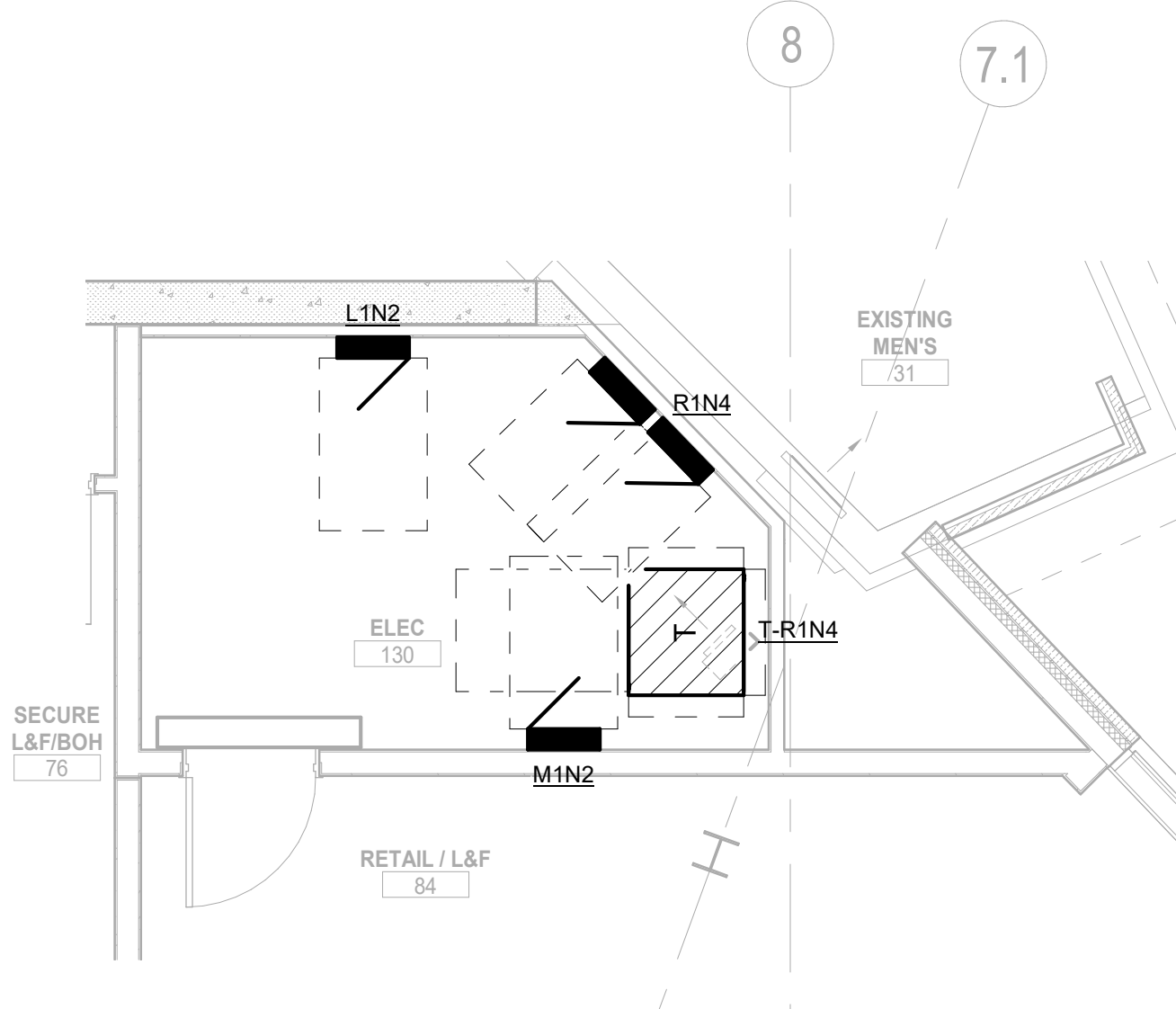
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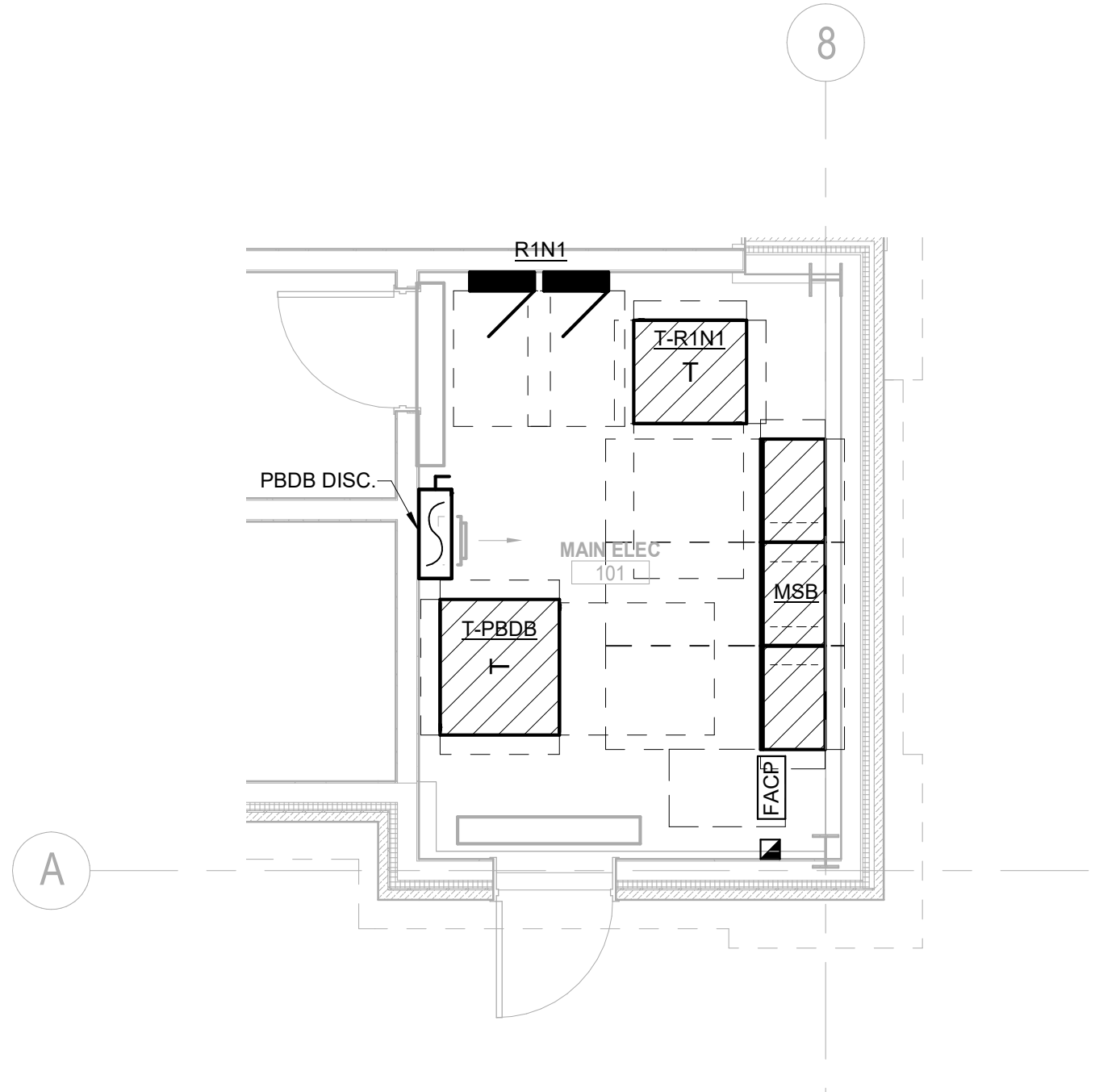
4 ENLARGED LOWER LEVEL ELECTRICAL ROOM
SCALE: 1/4" = 1'-0"



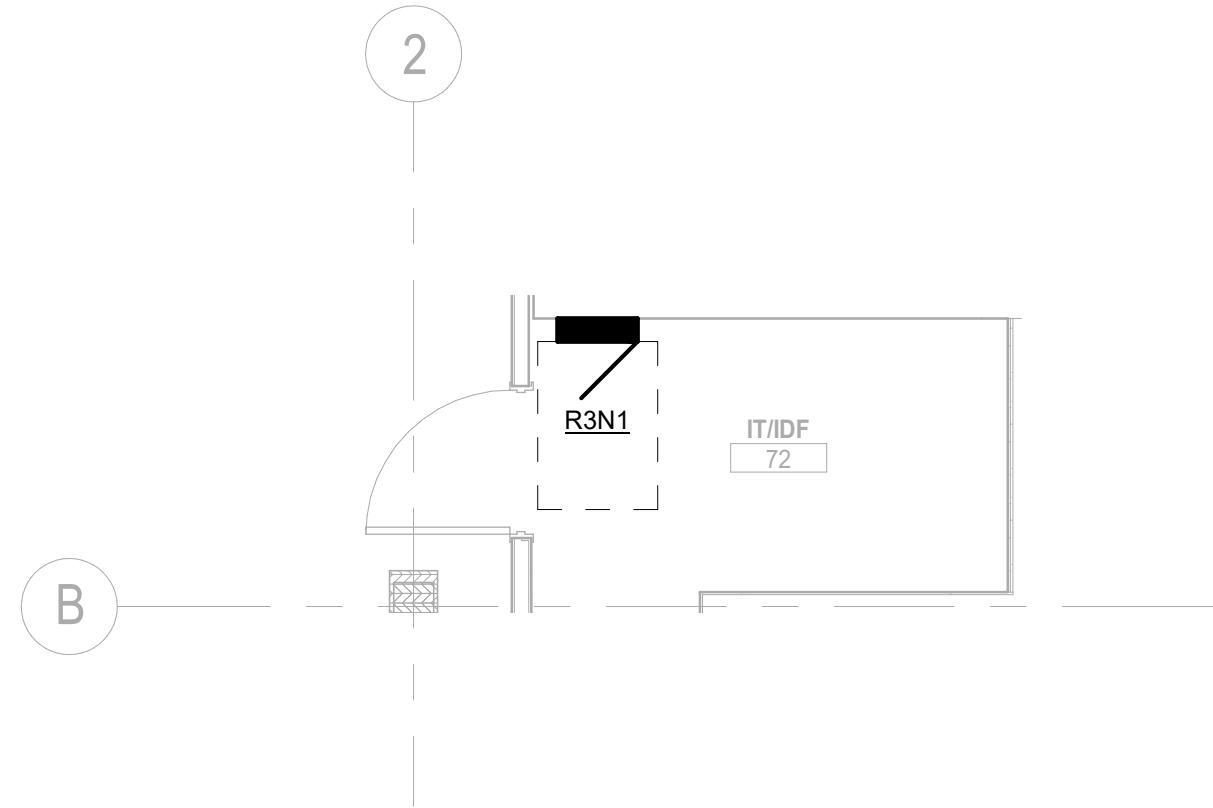
3 ENLARGED IDF ROOM 90 & 91
SCALE: 1/4" = 1'-0"



2 ENLARGED ELECTRICAL ROOM 64
SCALE: 1/4" = 1'-0"



1 ENLARGED MAIN ELECTRICAL ROOM 45
SCALE: 1/4" = 1'-0"



5 ENLARGED IT/IDF ROOM 72
SCALE: 1/4" = 1'-0"

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KEYNOTES	
E9	PROVIDE LB-30R DEVICE AT THE TOP OF THE RACK LOCATED ON THE BACK SIDE. REFER TO TECHNOLOGY DRAWINGS FOR EXACT RACK QUANTITIES AND LOCATIONS WITHIN IT ROOM.
E10	PROVIDE QUAD DEVICE MOUNTED BEHIND ACCESS CONTROL PANEL. REFER TO TECHNOLOGY DRAWINGS FOR EXACT LOCATION OF DEVICE WITH PANEL.
E11	PROVIDE LIGHTING INVERTER "OTA IIS-350-1" OR APPROVED EQUAL FOR BRANCH CIRCUIT EMERGENCY LIGHTING. INVERTER SHALL BE MOUNTED IN ACCESSIBLE LOCATION EITHER ABOVE ACCESSIBLE CEILING OR IN ADJACENT BACK OF HOUSE SPACE HIGH ON WALL. REFER TO 10/1A-E8.003 FOR EXACT WIRING CONFIGURATION WITH LIGHTING CONTROL AND INVERTER SYSTEM.

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Record Set
Electrical
07/01/2021

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Tel 303.421.6655

△	Date	Description
-	2021.05.19	BP3: PROMENADE - ISSUE FOR BID AND PERMIT

Seal / Signature

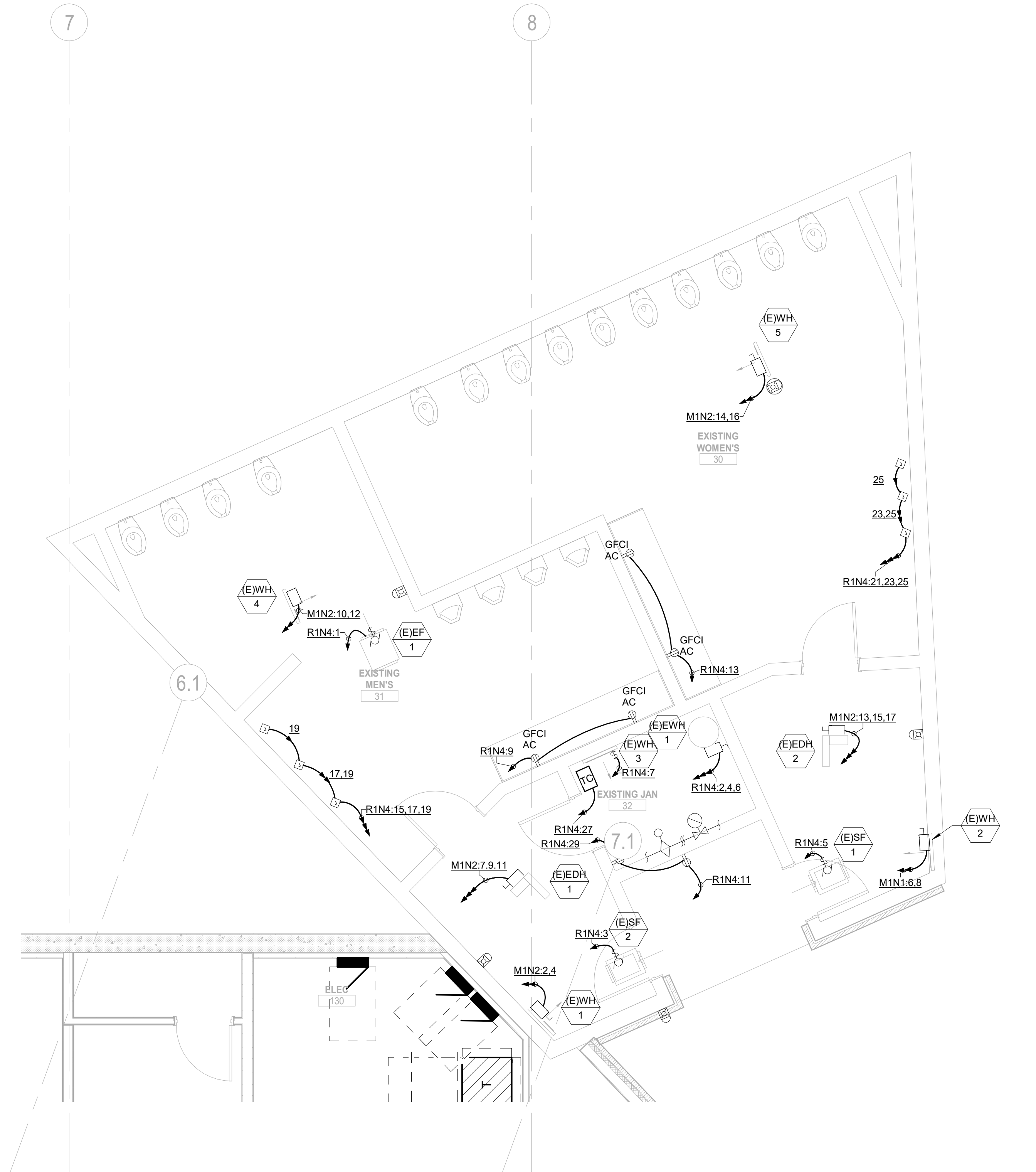
Project Name
SSRC | BASE AREA IMPROVEMENTS

Project Number
003.7835.000

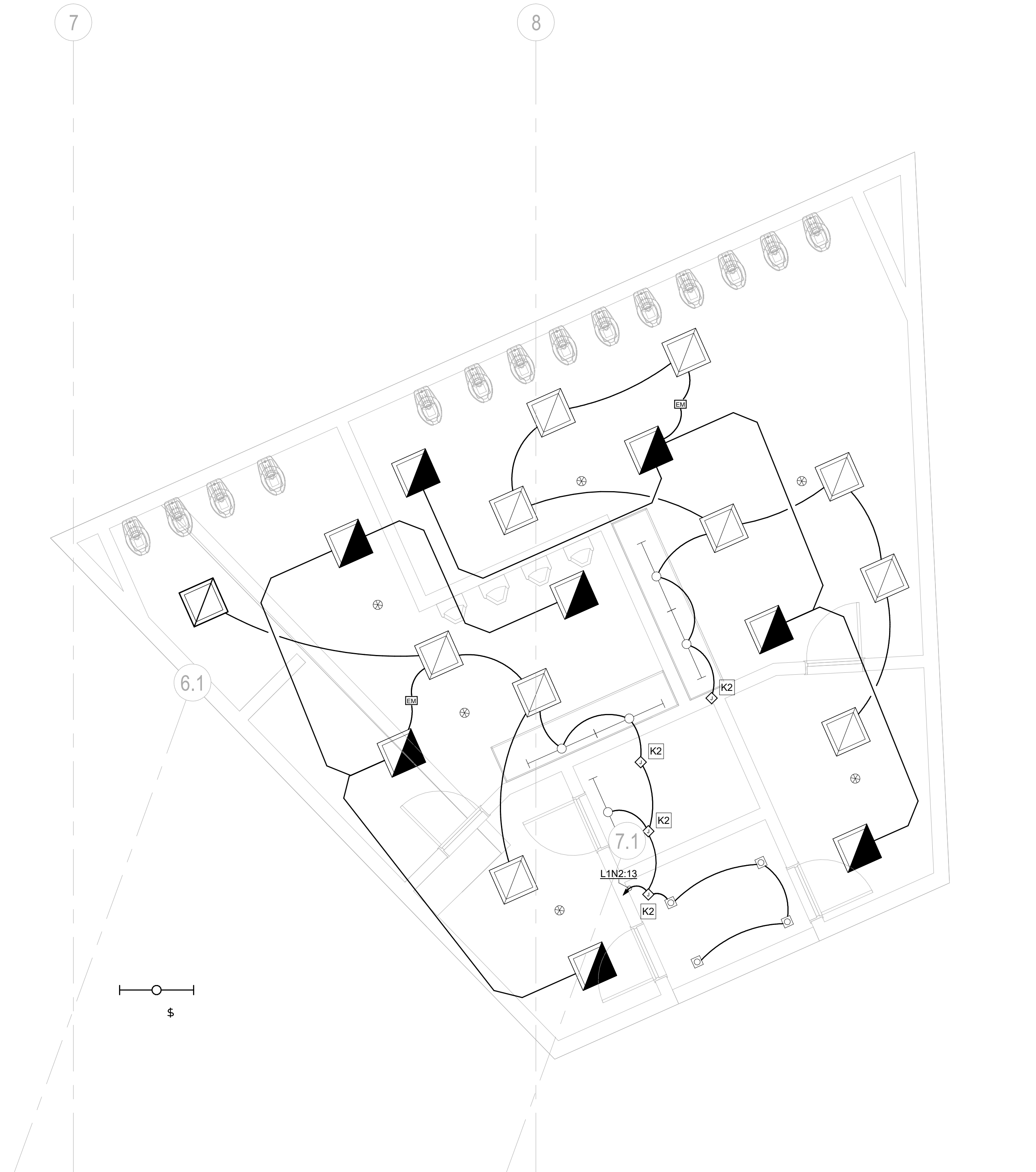
Description
PROMENADE - ENLARGED ELECTRICAL AND IDF ROOMS

Scale
1/4" = 1'-0"





1 ENLARGED STAGE BUILDING LOWER LEVEL 01 - ELECTRICAL PLAN
SCALE: 1/4" = 1'-0"



2 ENLARGED STAGE BUILDING LOWER LEVEL 01 - LIGHTING PLAN
SCALE: 1/4" = 1'-0"

GENERAL NOTES:

1. ELECTRICAL CONTRACTOR SHALL COORDINATE EXACT LOCATION OF ALL MECHANICAL UNITS WITH MECHANICAL CONTRACTOR.
2. ALL EXPOSED CONDUIT SHALL BE ROUTED PERPENDICULAR, PARALLEL, AND TIGHT TO COLUMNS AND BEAMS. ALL EXPOSED CONDUIT ROUTING SHALL BE COORDINATED WITH THE ARCHITECT PRIOR TO INSTALLATION AND INSTALLED IN A NEAT AND CONSISTENT MANNER. NO ADDITIONAL COST TO OWNER WILL BE ALLOWED FOR RELOCATING CONDUIT DUE TO THE LACK OF COORDINATION WITH ARCHITECT. ALL SURFACE MOUNTED CONDUIT WHERE EXPOSED TO PUBLIC AREAS SHALL BE PAINTED. PAINT COLOR TO BE DETERMINED BY THE ARCHITECT. CONTRACTOR SHALL PROVIDE SHOP DRAWINGS INDICATING ALL PROPOSED EXPOSED CONDUIT ROUTING.
3. ALL BACK BOXES SHALL BE FLUSH MOUNTED UNLESS NOTED OTHERWISE. ALL VERTICAL SECTIONS OF CONDUIT SHALL BE CONCEALED. CONTRACTOR SHALL COORDINATE INSTALLATION OF CONDUIT AND BACK BOXES IN CONCRETE, MASONRY AND GYP. WALLS.
4. THIS CONTRACTOR SHALL REFER TO "MEP" SERIES DRAWINGS FOR ALL MECHANICAL EQUIPMENT ELECTRICAL CONNECTIONS.
5. CIRCUITS TO ALL MECHANICAL EQUIPMENT SHALL BE DEDICATED UNLESS NOTED OTHERWISE.
6. ALL 277V LIGHTING CIRCUITS TERMINATING AT LIGHTING CONTROL PANELS SHALL HAVE A MINIMUM LENGTH OF 20 FEET BETWEEN LIGHTING CONTROL PANEL AND BRANCH LIGHTING PANEL.
7. REPLACE ALL FIRE ALARM DEVICES IN KIND IN STAGE BUILDING RESTROOM TO ENSURE THE DEVICES INTEGRATE WITH PROMENADE FIRE ALARM SYSTEM.

KEYNOTES

K2 PROVIDE SINGLE ZONE DISTRIBUTED ROOM CONTROLLER FOR LIGHTING CONTROL WITHIN THIS SPACE. ROOM CONTROLLER SHALL HAVE ON/OFF RELAY CONTROL AND DIMMING FUNCTIONALITY. REFER TO LIGHT FIXTURE SCHEDULE FOR EXACT DIMMING TECHNOLOGY BEING USED ON A PER LIGHT FIXTURE BASIS. PROVIDE NETWORK CONNECTION FOR THIS ROOM CONTROLLER TO THE OVERALL NETWORKED LIGHTING CONTROL SYSTEM.

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Seal / Signature

Project Name
SSRC | BASE AREA IMPROVEMENTS

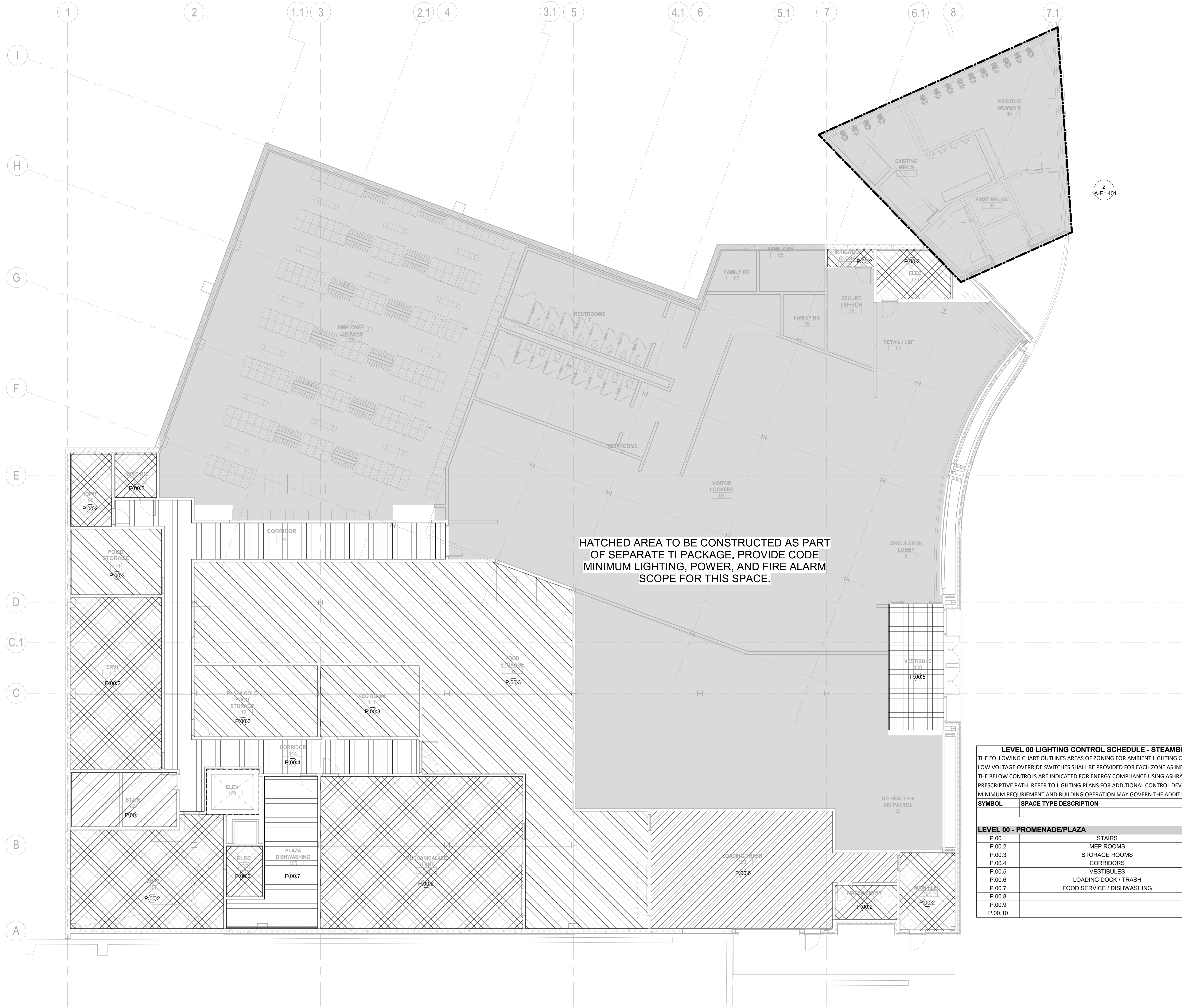
Project Number
003.7835.000

Description
PROMENADE - ENLARGED STAGE BUILDING LOWER LEVEL

Scale
1/4" = 1'-0"

RCRBD
Record Set
Electrical
07/01/2021

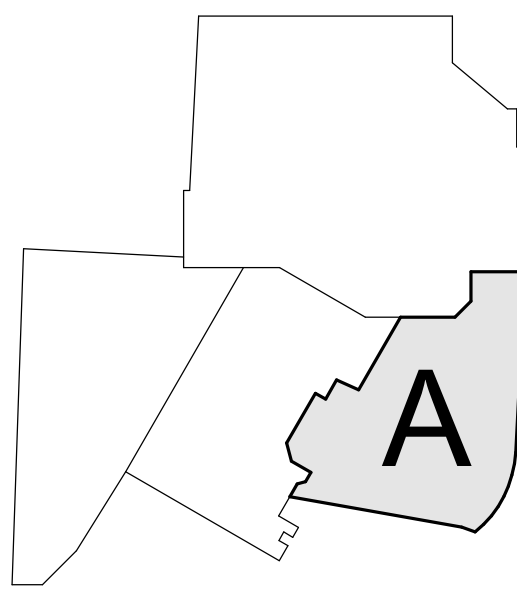
1A-E1.401



HATCHED AREA TO BE CONSTRUCTED AS PART OF SEPARATE TI PACKAGE. PROVIDE CODE MINIMUM LIGHTING, POWER, AND FIRE ALARM SCOPE FOR THIS SPACE.

LEVEL 00 LIGHTING CONTROL SCHEDULE - STEAMBOAT BASE AREA - PROMENADE AND PLAZA BUILDING																	
THE FOLLOWING CHART OUTLINES AREAS OF ZONING FOR AMBIENT LIGHTING CONTROL SYSTEM. LOW VOLTAGE OVERRIDE SWITCHES SHALL BE PROVIDED FOR EACH ZONE AS INDICATED ON PLANS. THE BELOW CONTROLS ARE INDICATED FOR ENERGY COMPLIANCE USING ASHRAE 90.1 - 2016 AS THE PRESCRIPTIVE PATH. REFER TO LIGHTING PLANS FOR ADDITIONAL CONTROL DEVICES. THIS MATRIX OUTLINES MINIMUM REQUIREMENT AND BUILDING OPERATION MAY GOVERN THE ADDITION OF CONTROLS.								SCENES									
								MAINTENANCE	EVENT	WEEKDAY	WEEKEND	USER DEFINED 01	USER DEFINED 02				
SYMBOL	SPACE TYPE DESCRIPTION		CONTROL TYPE														
			DL	DIM	OS	VS	TC	LS									
LEVEL 00 - PROMENADE/PLAZA																	
P.00.1		STAIRS	-	-	X	X	X	-									
P.00.2		MEP ROOMS	-	-	-	-	-	X									
P.00.3		STORAGE ROOMS	-	-	-	X	-	X									
P.00.4		CORRIDORS	-	-	X	-	X	X									
P.00.5		VESTIBULES	-	-	X	-	X	-									
P.00.6		LOADING DOCK / TRASH	-	-	-	X	-	X									
P.00.7		FOOD SERVICE / DISHWASHING	-	-	-	X	-	X									
P.00.8			-	-	-	-	-	-									
P.00.9			-	-	-	-	-	-									
P.00.10			-	-	-	-	-	-									

KEY PLAN



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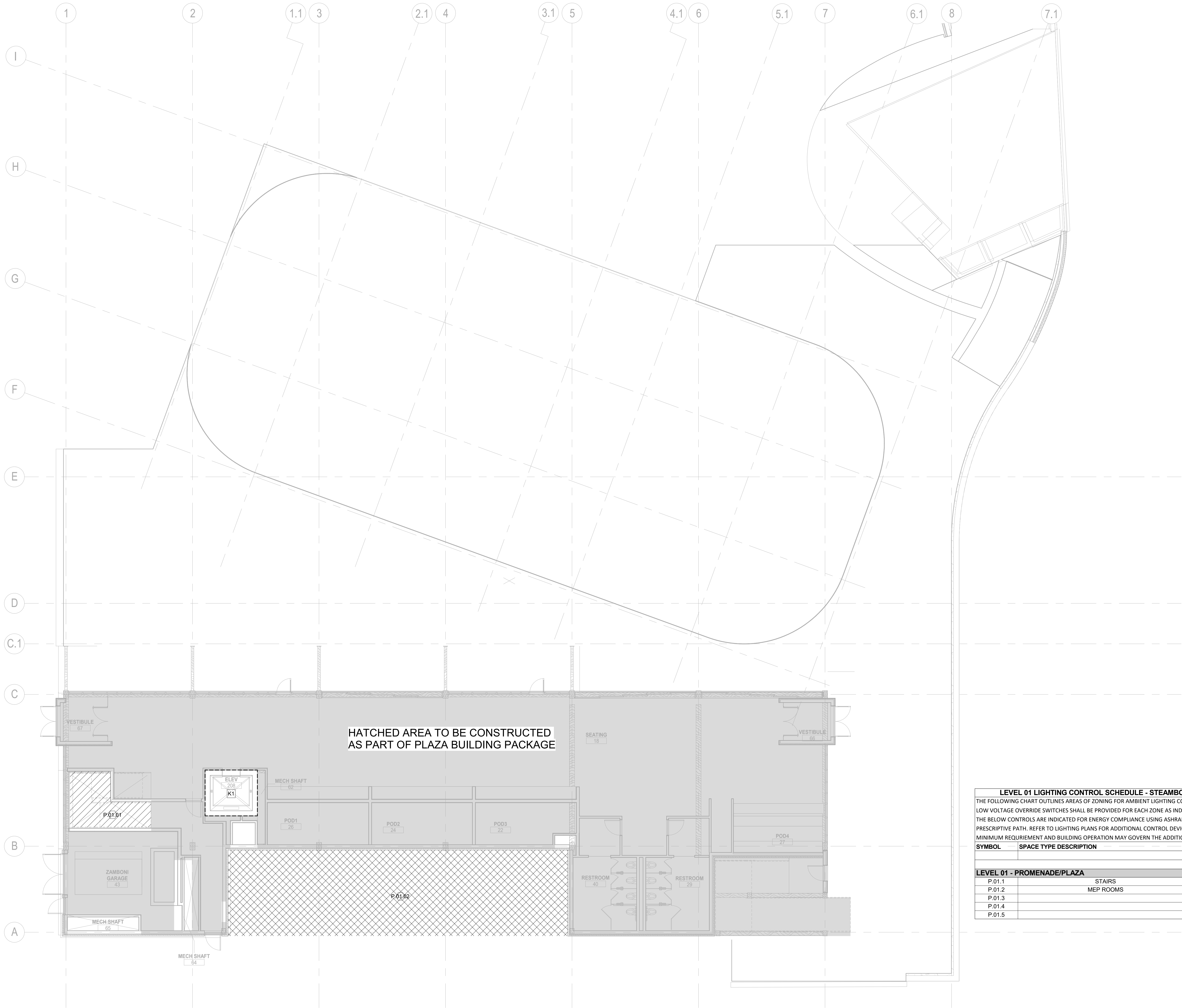
Date	Description
2021.05.19	BP3: PROMENADE - ISSUE FOR BID AND PERMIT

Seal / Signature

Project Name
SSRC | BASE AREA IMPROVEMENTS

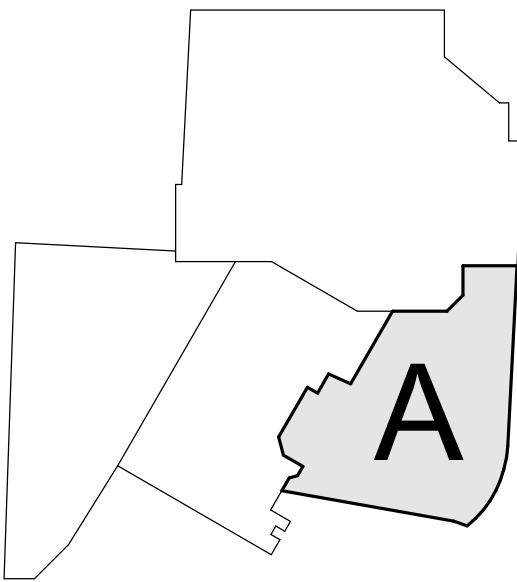
Project Number
003.7835.000

Description
PROMENADE - LIGHTING CONTROLS - LEVEL 00



LEVEL 01 LIGHTING CONTROL SCHEDULE - STEAMBOAT BASE AREA - PROMENADE AND PLAZA BUILDING															
THE FOLLOWING CHART OUTLINES AREAS OF ZONING FOR AMBIENT LIGHTING CONTROL SYSTEM.								SCENES							
LOW VOLTAGE OVERRIDE SWITCHES SHALL BE PROVIDED FOR EACH ZONE AS INDICATED ON PLANS.															
THE BELOW CONTROLS ARE INDICATED FOR ENERGY COMPLIANCE USING ASHRAE 90.1 - 2016 AS THE PRESCRIPTIVE PATH. REFER TO LIGHTING PLANS FOR ADDITIONAL CONTROL DEVICES. THIS MATRIX OUTLINES MINIMUM REQUIREMENT AND BUILDING OPERATION MAY GOVERN THE ADDITION OF CONTROLS.								MAINTENANCE	EVENT	WEEKDAY	WEEKEND	USER DEFINED 01	USER DEFINED 02		
SYMBOL	SPACE TYPE DESCRIPTION	CONTROL TYPE													
		DL	DIM	OS	VS	TC	LS								
LEVEL 01 - PROMENADE/PLAZA															
P.01.1	STAIRS	-	-	X	-	X	-								
P.01.2	MEP ROOMS	-	-	-	-	-	X								
P.01.3		-	-	-	-	-	-								
P.01.4		-	-	-	-	-	-								
P.01.5		-	-	-	-	-	-								

KEY PLAN



RCRBD
Record Set
Electrical
07/01/2021

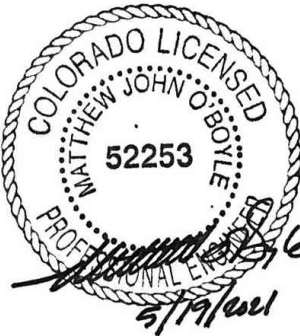
Steamboat.
ALTERRA mountain company east west partners
2305 Mount Werner Circle
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△	Date	Description
-	2021.05.19	BP3: PROMENADE - ISSUE FOR BID AND PERMIT

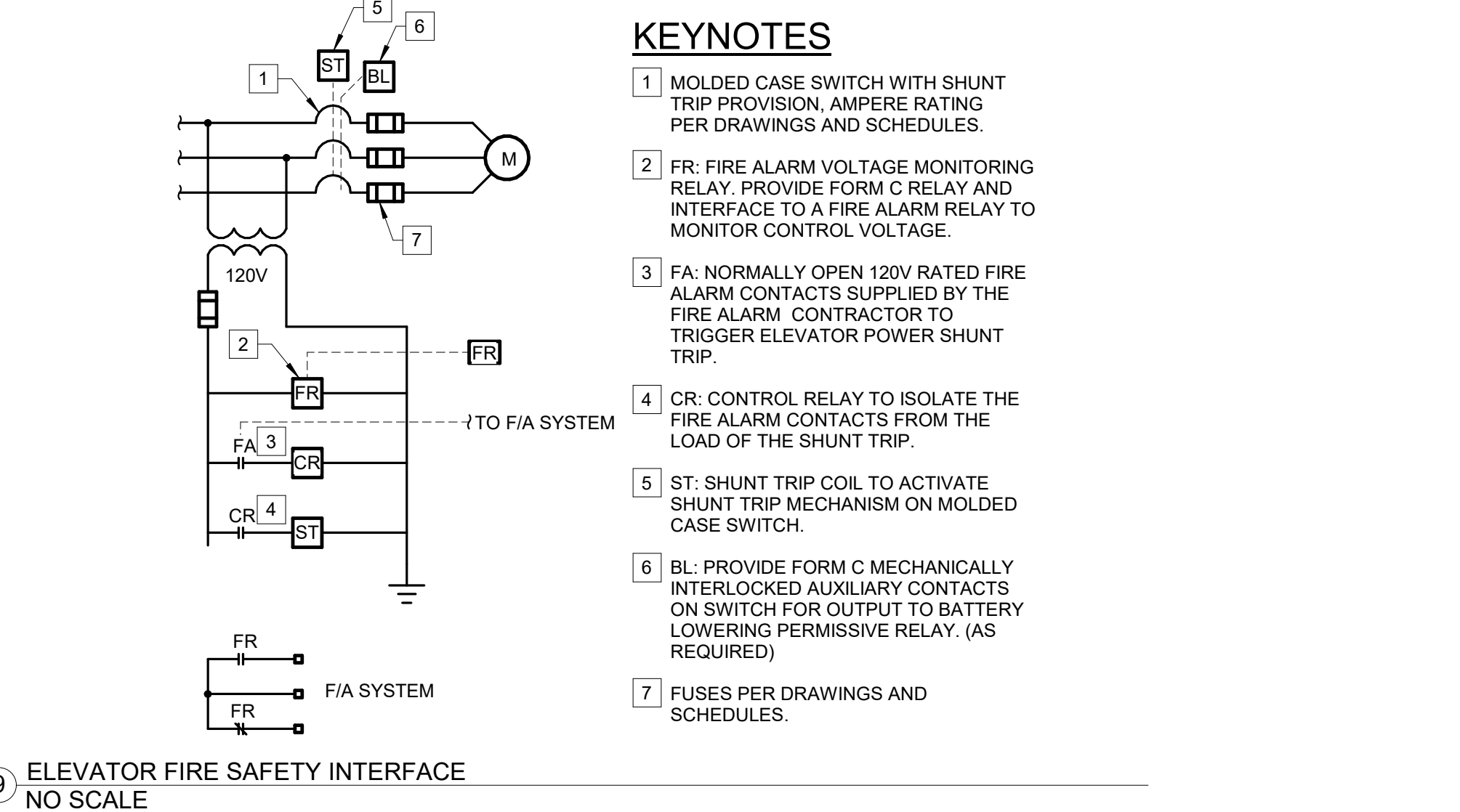
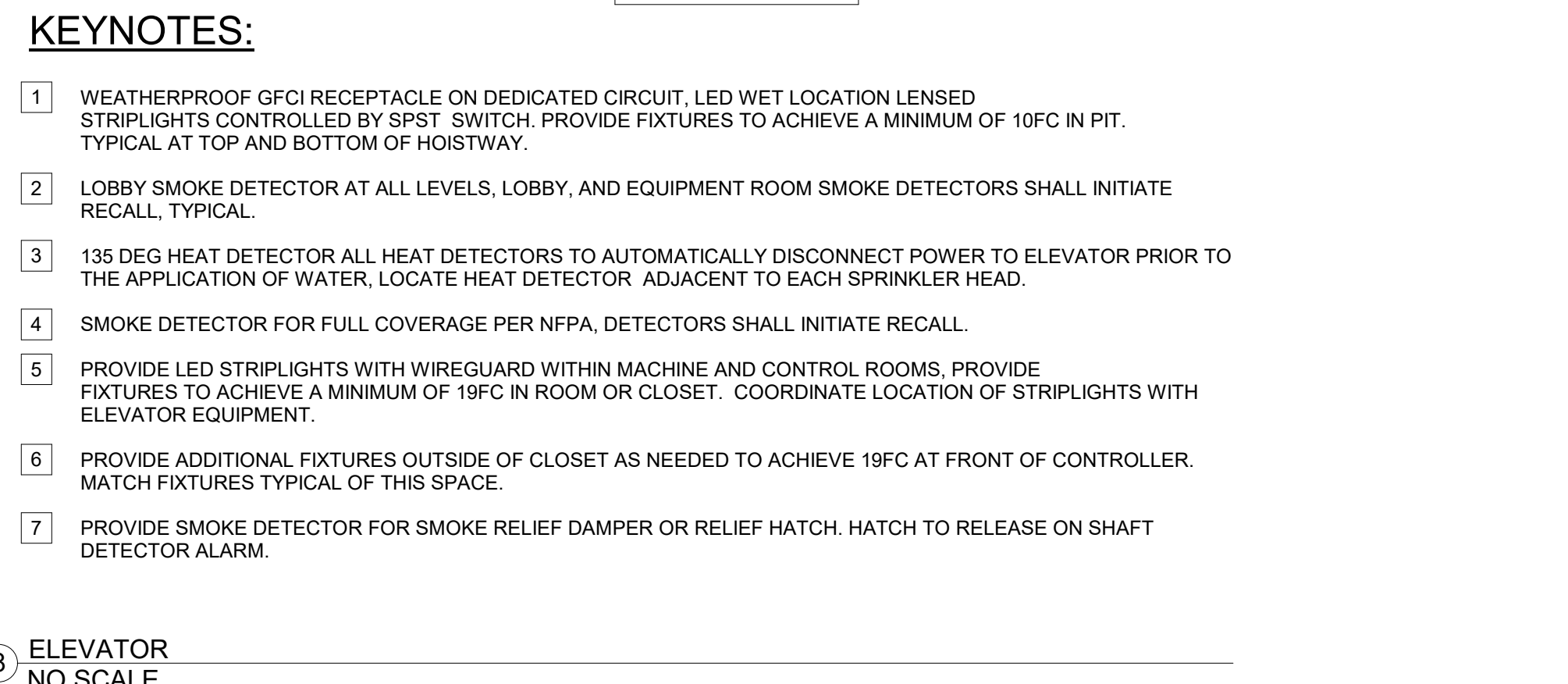
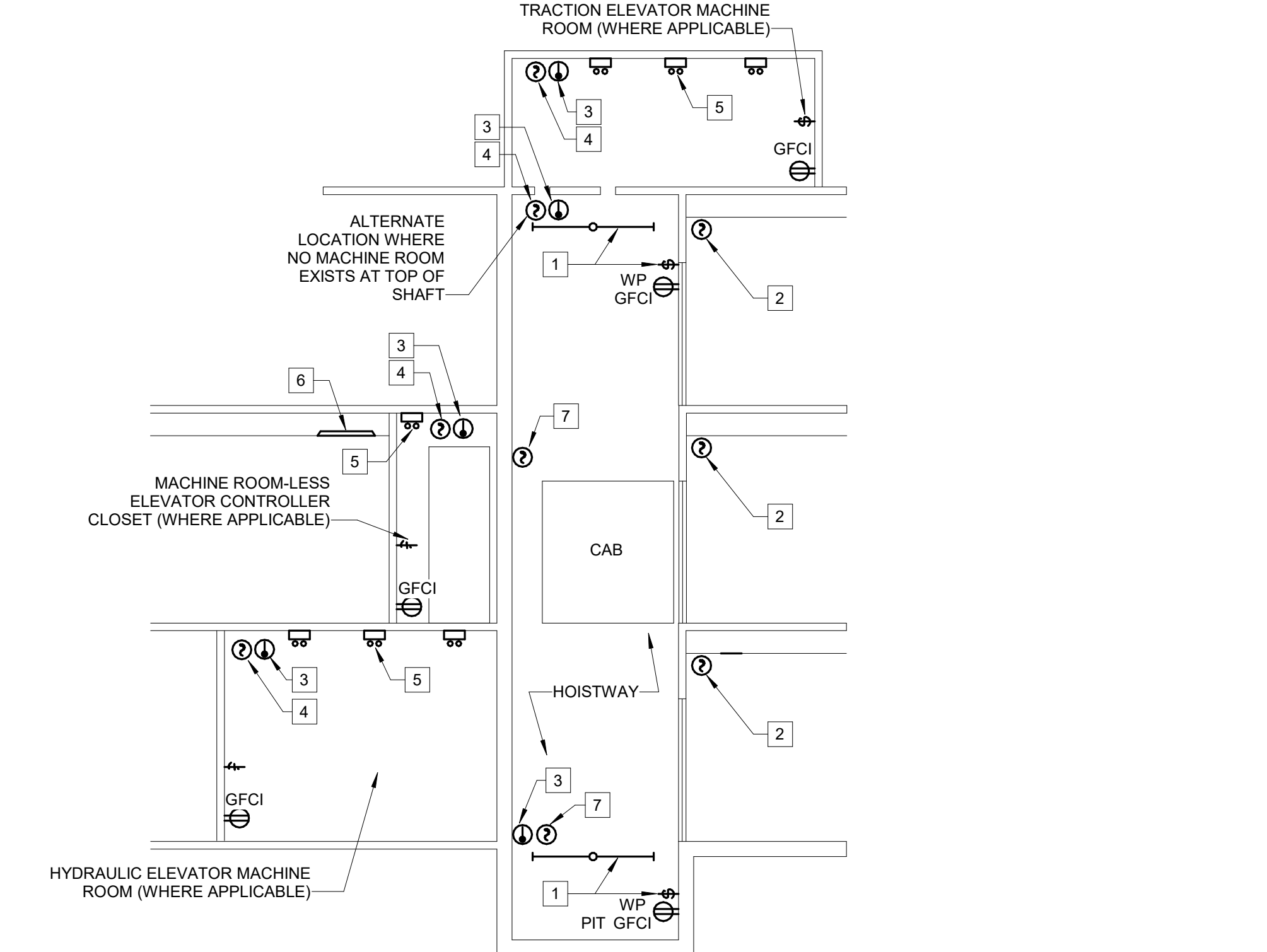
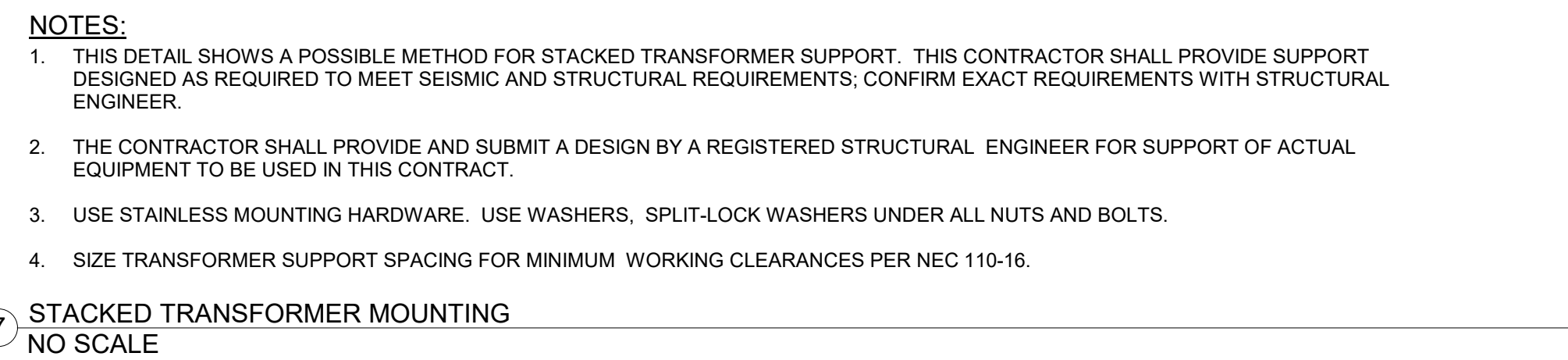
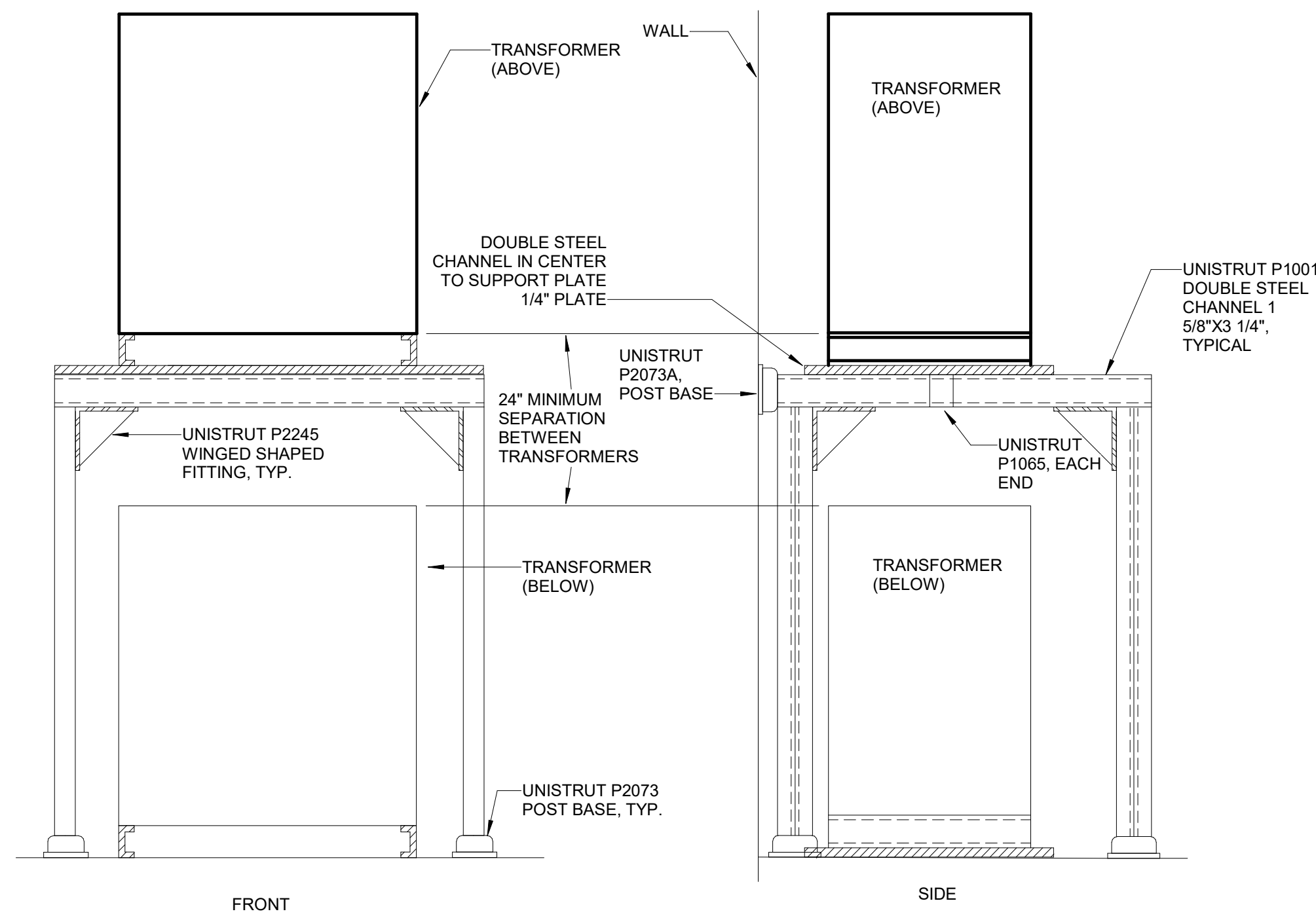
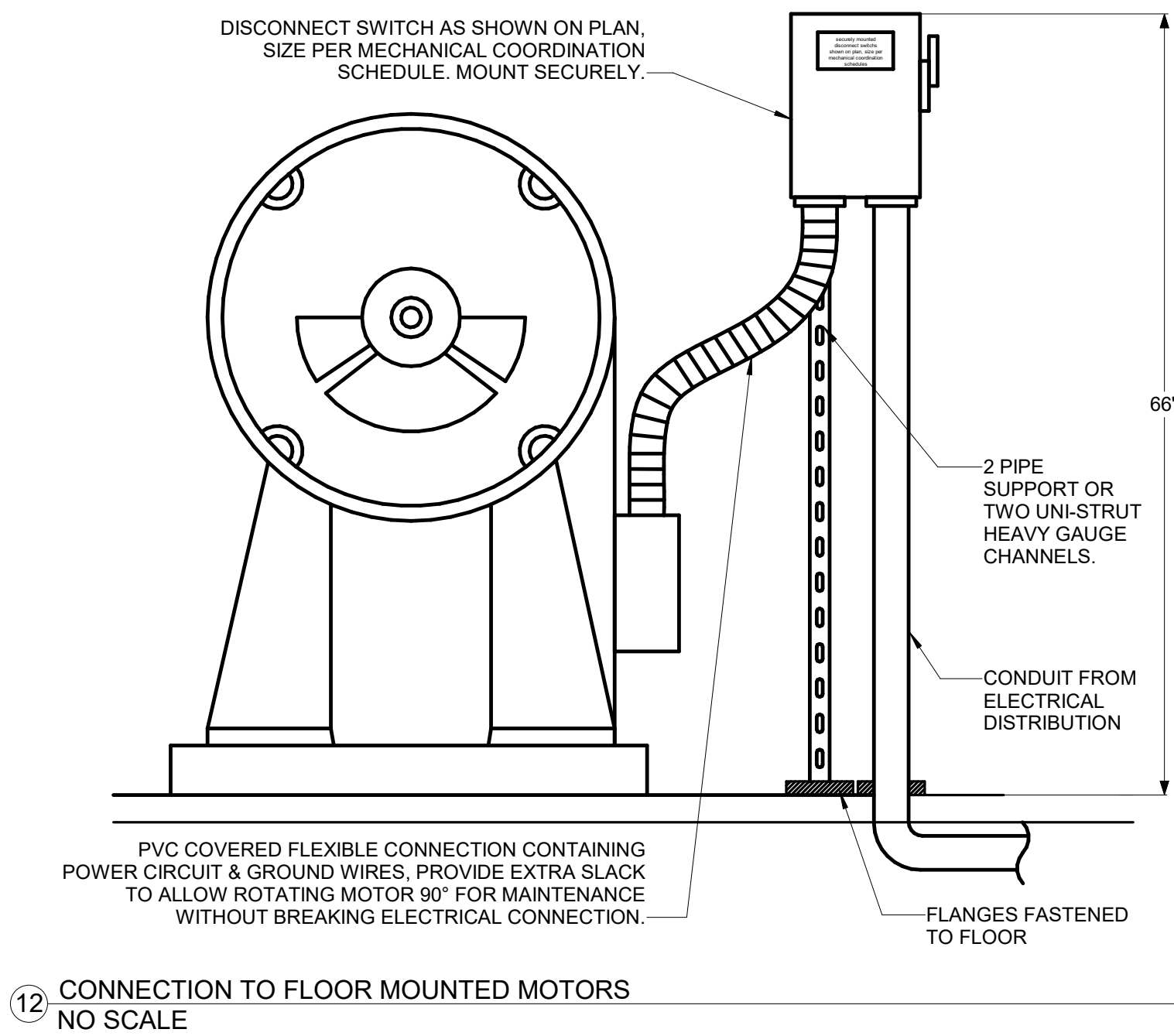
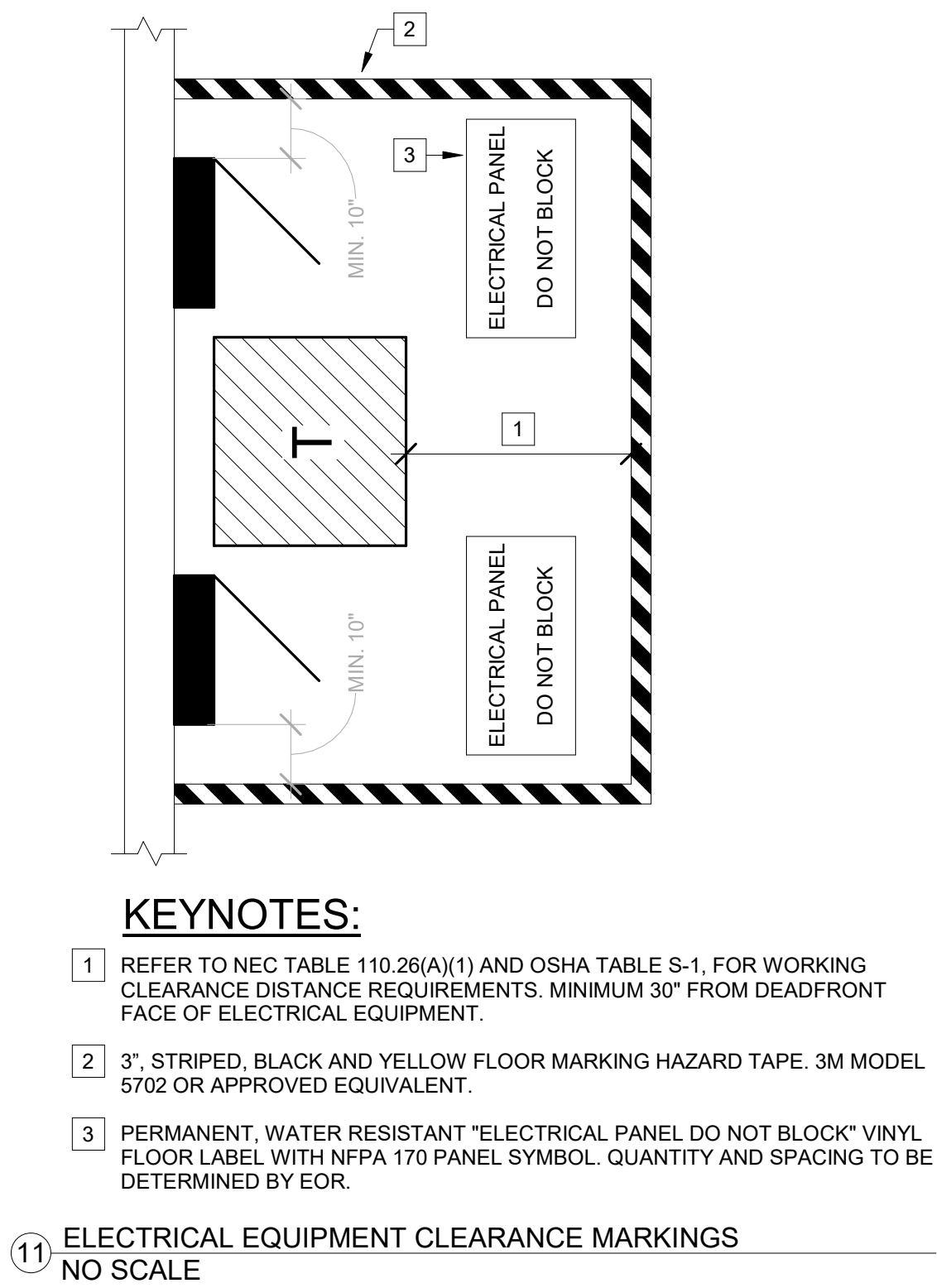
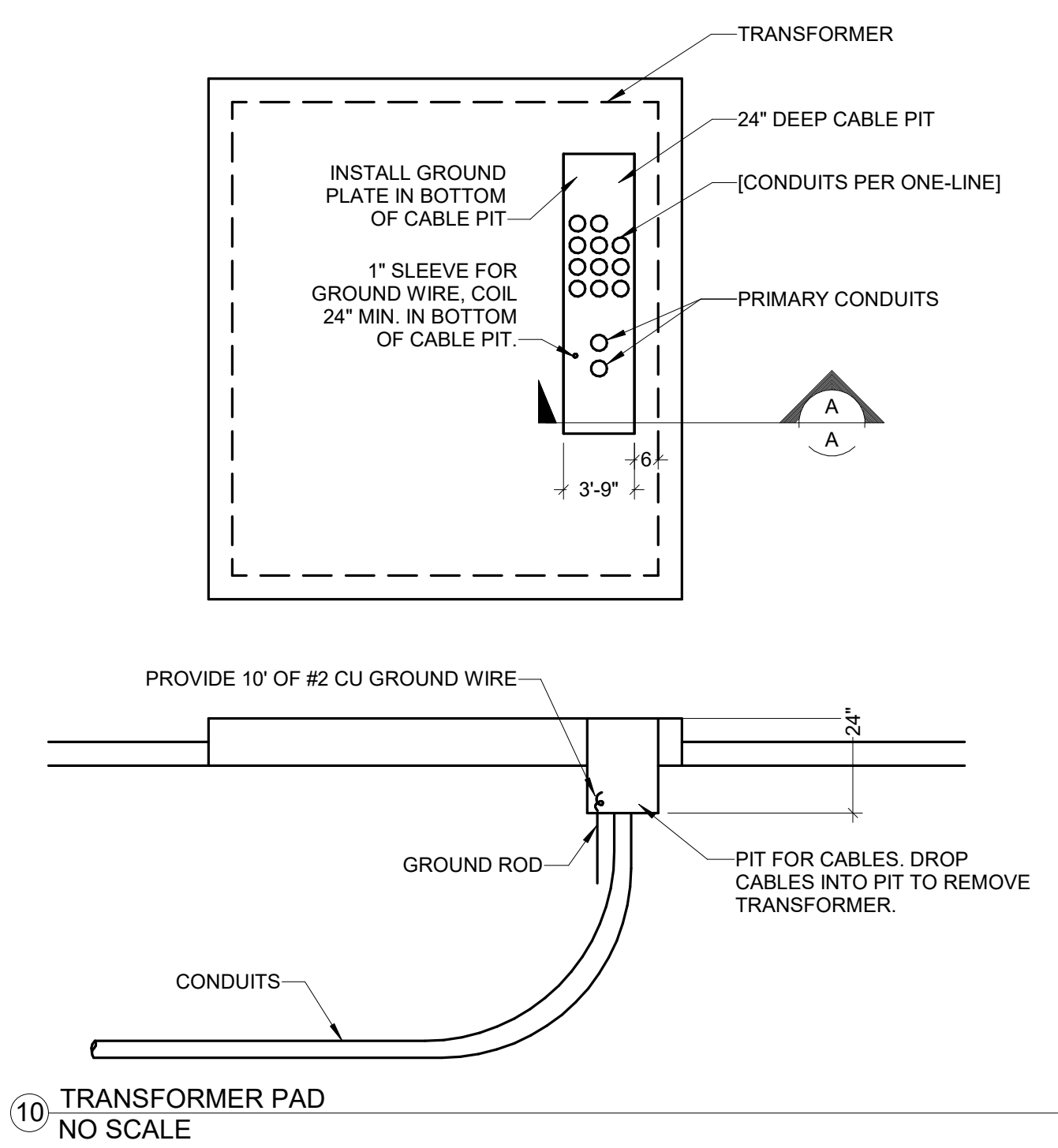
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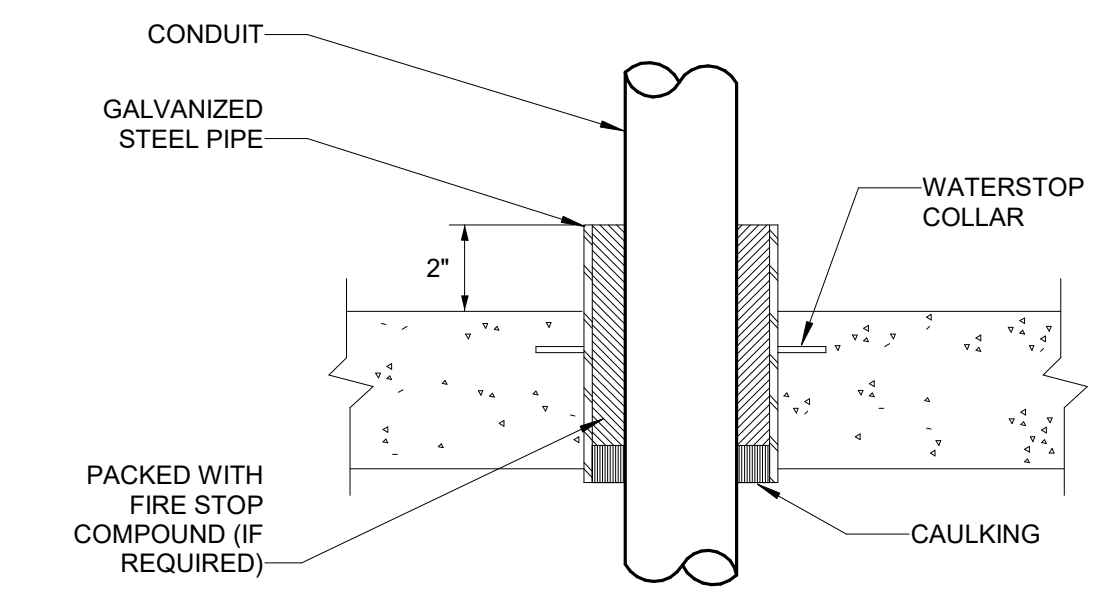


Project Name
SSRC | BASE AREA IMPROVEMENTS
Project Number
003.7835.000
Description
PROMENADE - LIGHTING CONTROLS - LEVEL 01

Scale
1/8" = 1'-0"

1A-E1.501

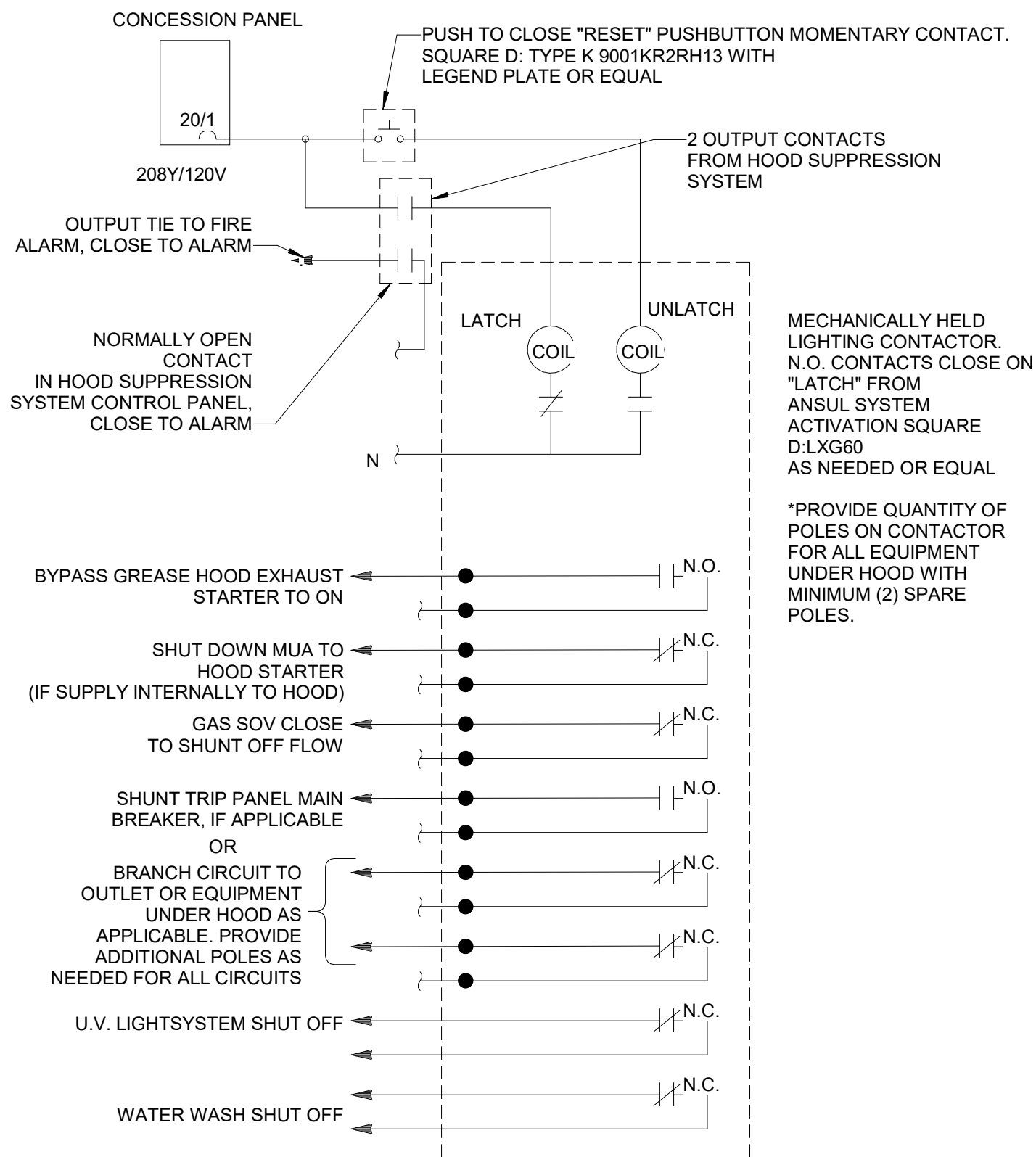




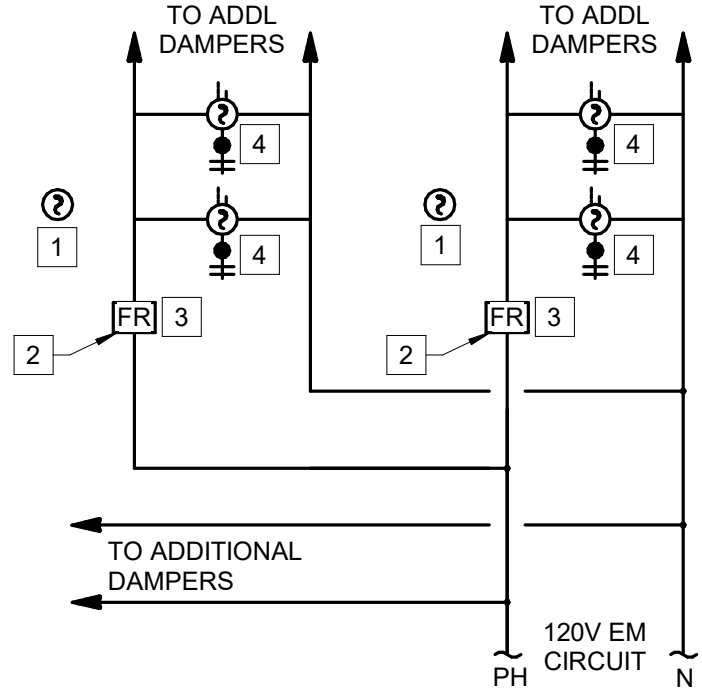
NOTE:

1. ALL CONDUIT PENETRATIONS THROUGH HORIZONTAL OR VERTICAL EXISTING STRUCTURAL MEMBER (WALL, FLOOR, CEILING, ETC.) SHALL BE APPROVED BY THE STRUCTURAL ENGINEER. PROVIDE DRAWINGS FOR APPROVAL.

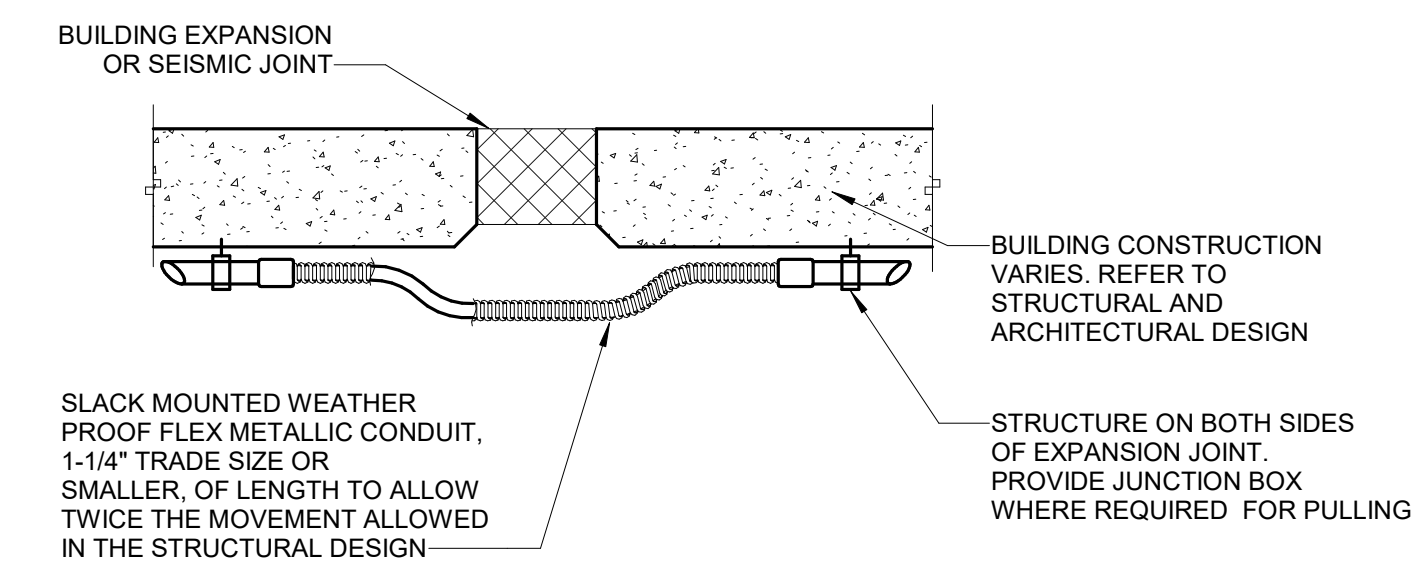
14 CONDUIT PENETRATION
NO SCALE



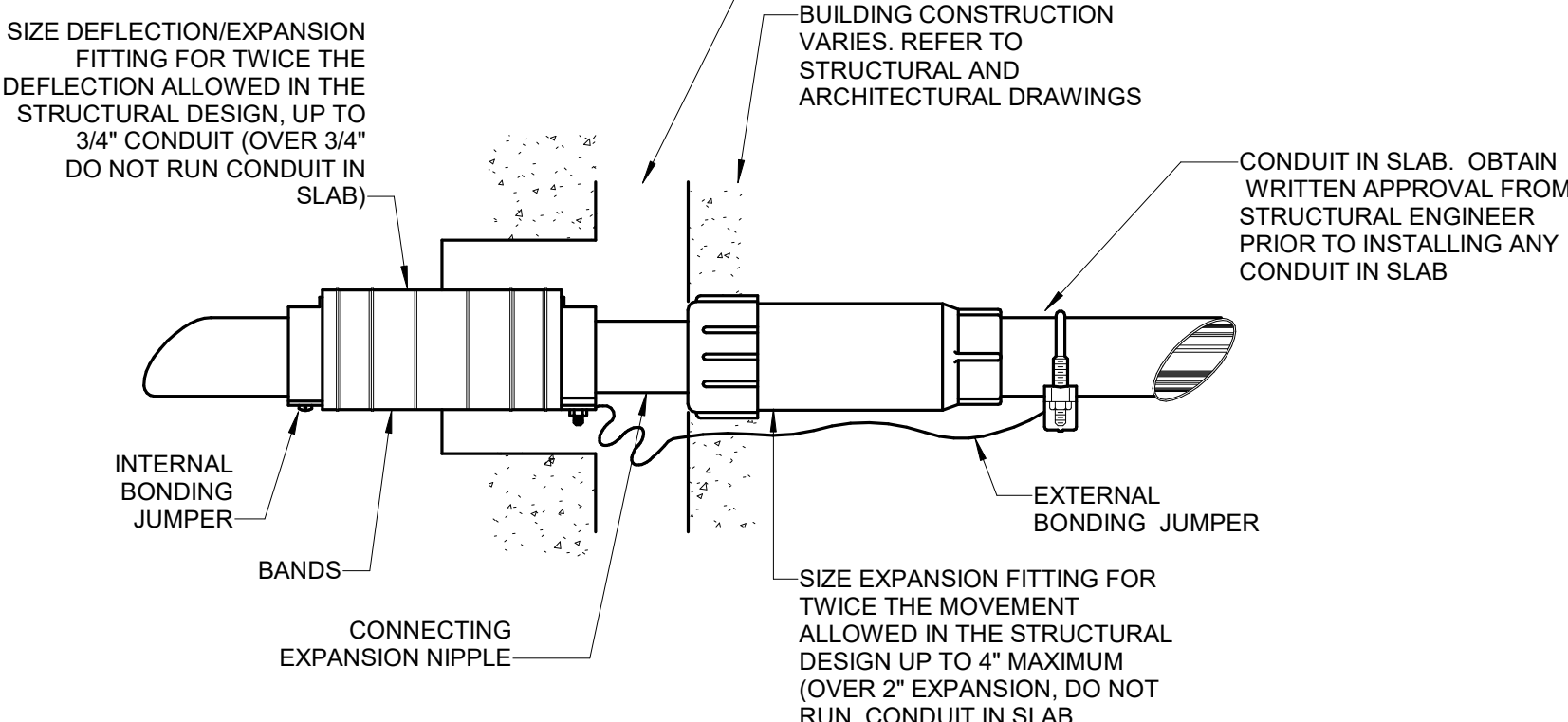
15 KITCHEN HOOD SHUNT TRIP PANEL
NO SCALE



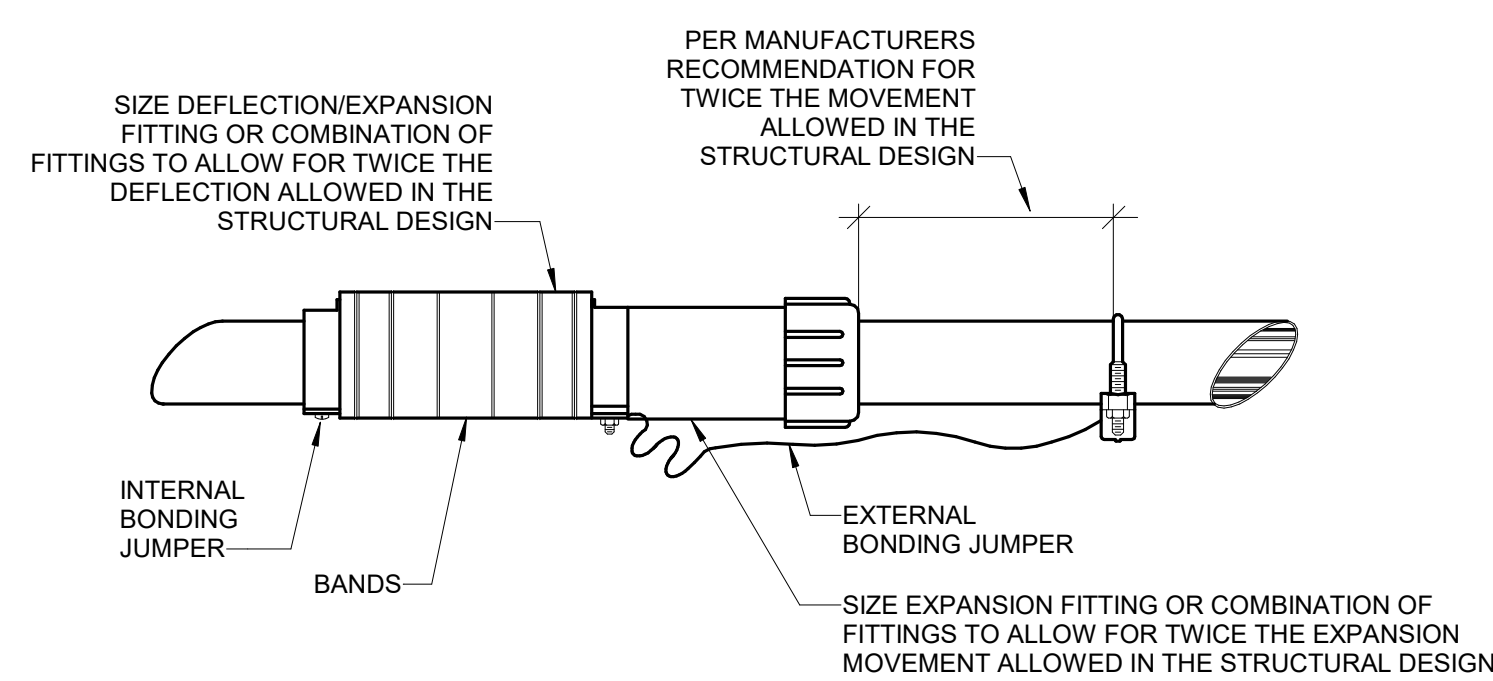
12 FIRE/SMOKE DAMPER
NO SCALE



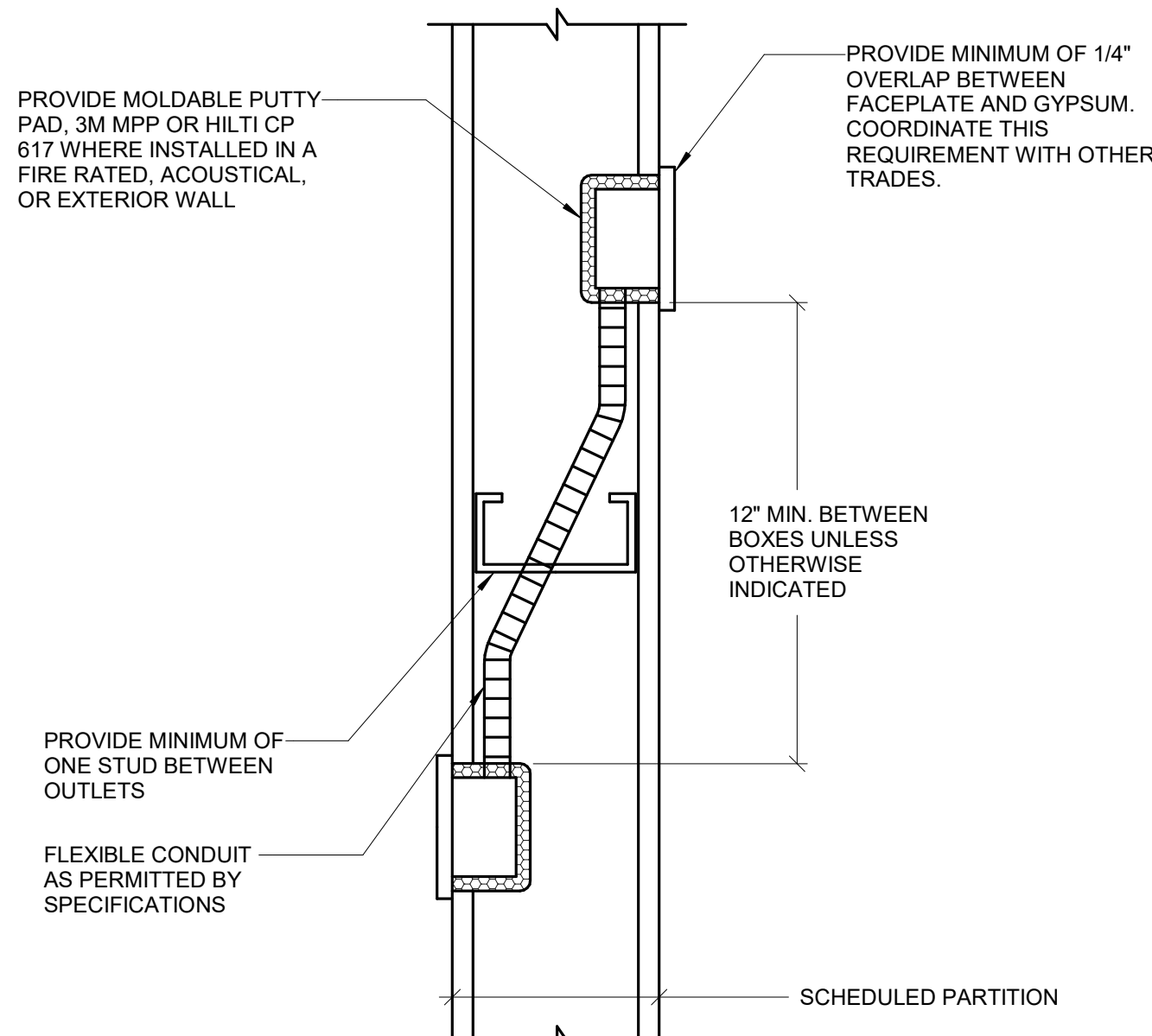
FLEX CONDUIT EXPANSION/DEFLECTION



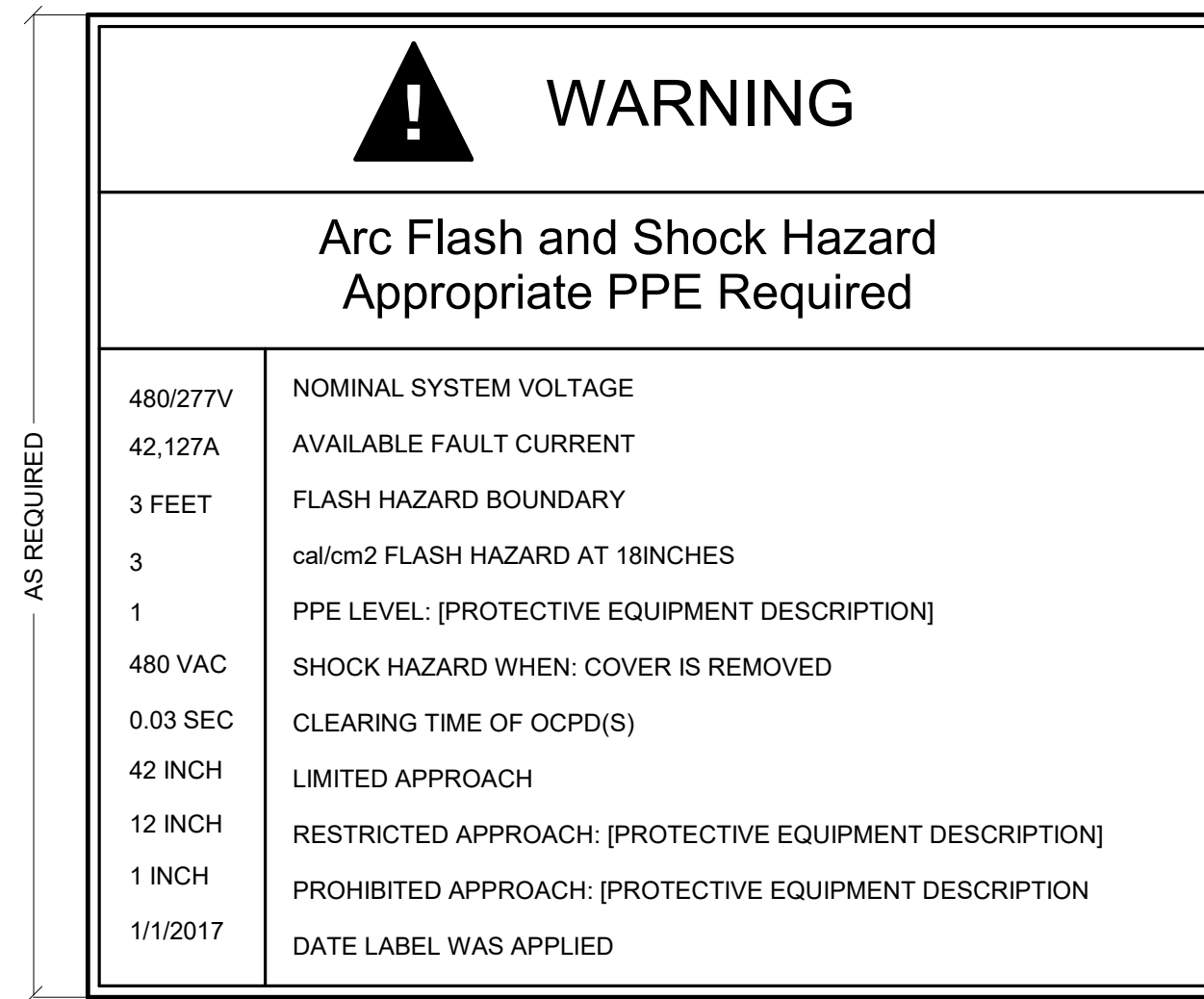
COMBINATION EXPANSION/DEFLECTION FITTING IN SLAB



13 SEISMIC EXPANSION FITTING
NO SCALE



7 BACK TO BACK BOXES ARRANGEMENT-NOISE/FIRE RATING
NO SCALE



NOTE:

1. SEE SPECIFICATIONS FOR ADDITIONAL NAMEPLATE INFORMATION.

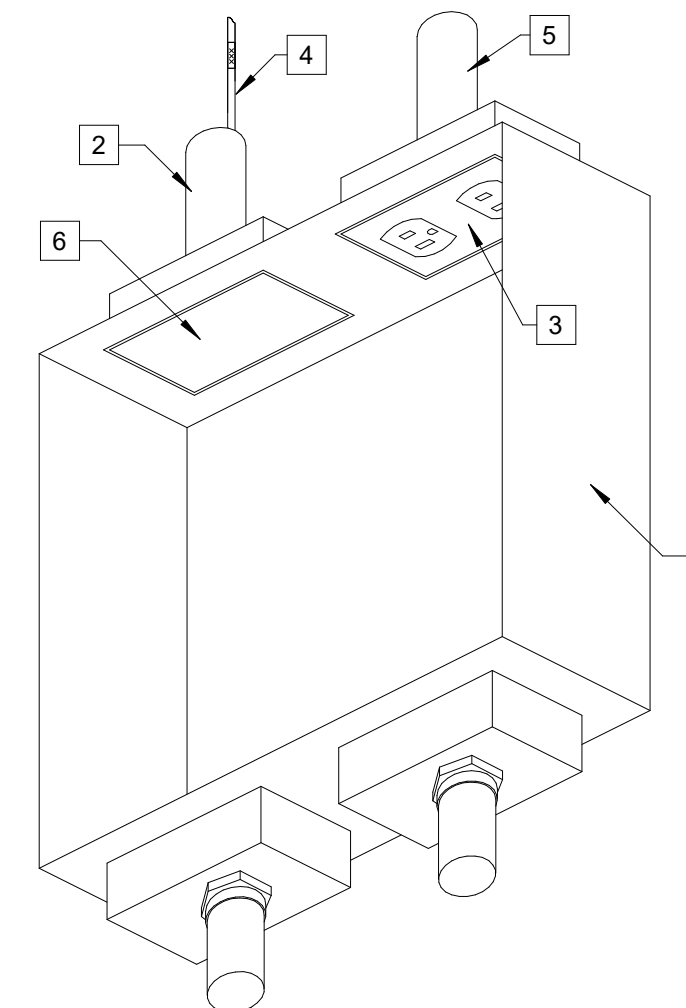
8 ARC FLASH LABEL
NO SCALE

GENERAL NOTES:

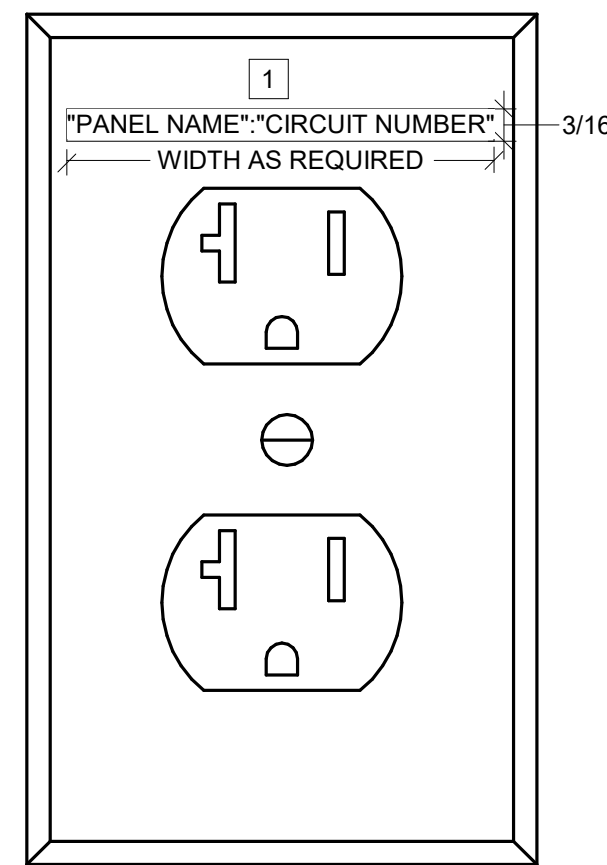
1. REFER TO AV AND TECHNOLOGY DRAWINGS FOR ADDITIONAL REQUIREMENTS RELATIVE TO TV / VIDEO MONITOR INFRASTRUCTURE.
2. REFER TO ARCHITECTURAL AND/OR AV DOCUMENTS FOR MOUNTING HEIGHTS AND/OR SPECIAL CONDITIONS.

KEYNOTES:

- 1 BACK-BOX: PROVIDE LARGE FLAT PANEL BACK-BOX AT SELECT LOCATIONS AS INDICATED IN AV DOCUMENTS. PROVIDE STANDARD 4 X 4 BACK-BOX FOR ALL OTHER TV / VIDEO MONITOR LOCATIONS.
- 2 TECH CONDUIT: SHOWN FOR REFERENCE ONLY. REFER TO TECHNOLOGY AND AV PLANS.
- 3 POWER: PROVIDE (1) 120V, 20A DUPLEX RECEPTACLE.
- 4 DATA CABLE: SHOWN FOR REFERENCE ONLY. REFER TO TECHNOLOGY AND AV PLANS.
- 5 POWER CONDUIT: PROVIDE MINIMUM 3/4" CONDUIT ROUTED TO PANEL THAT TV IS CIRCUITED TO.
- 6 DATA DEVICE: SHOWN FOR REFERENCE ONLY. REFER TO TECHNOLOGY AND AV PLANS.



9 TV RECESSED BOX DETAIL
NO SCALE



KEYNOTES:

- 1 PROVIDE BLACK LETTERING ON CLEAR LABEL FOR NORMAL CIRCUITS AND RED LETTERING ON CLEAR LABEL FOR EMERGENCY/STANDBY CIRCUITS.

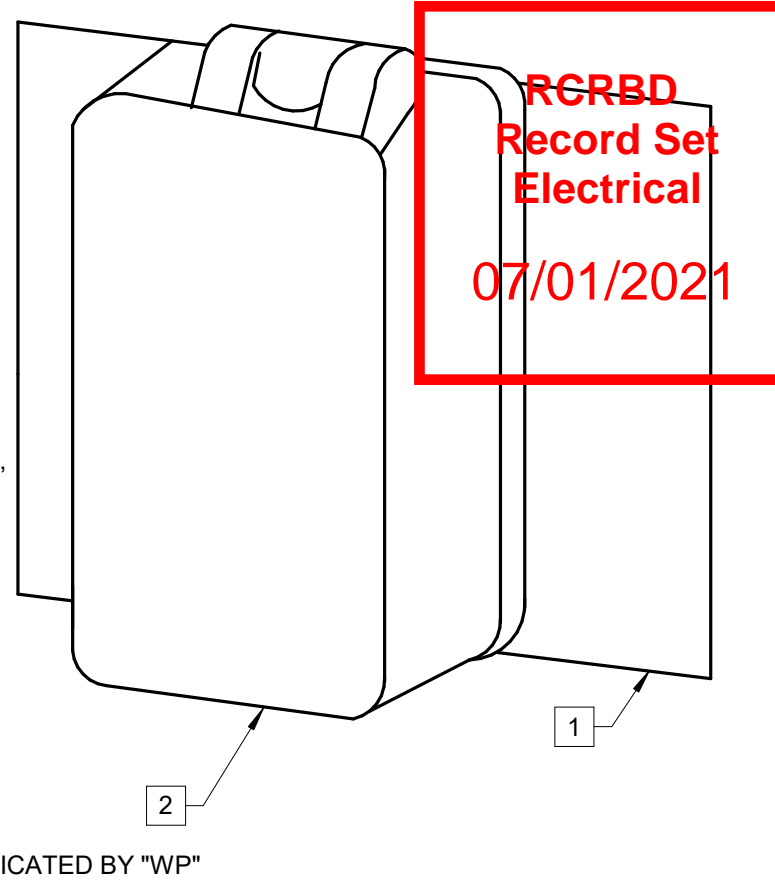
9 RECEPTACLE IDENTIFICATION
NO SCALE

GENERAL NOTES:

1. CONTRACTOR SHALL PROVIDE WEATHER PROOF COVER FOR ALL DEVICES WITH "WP" INDICATED AS PART OF SYMBOL ON PLAN DRAWINGS. U.N.O.

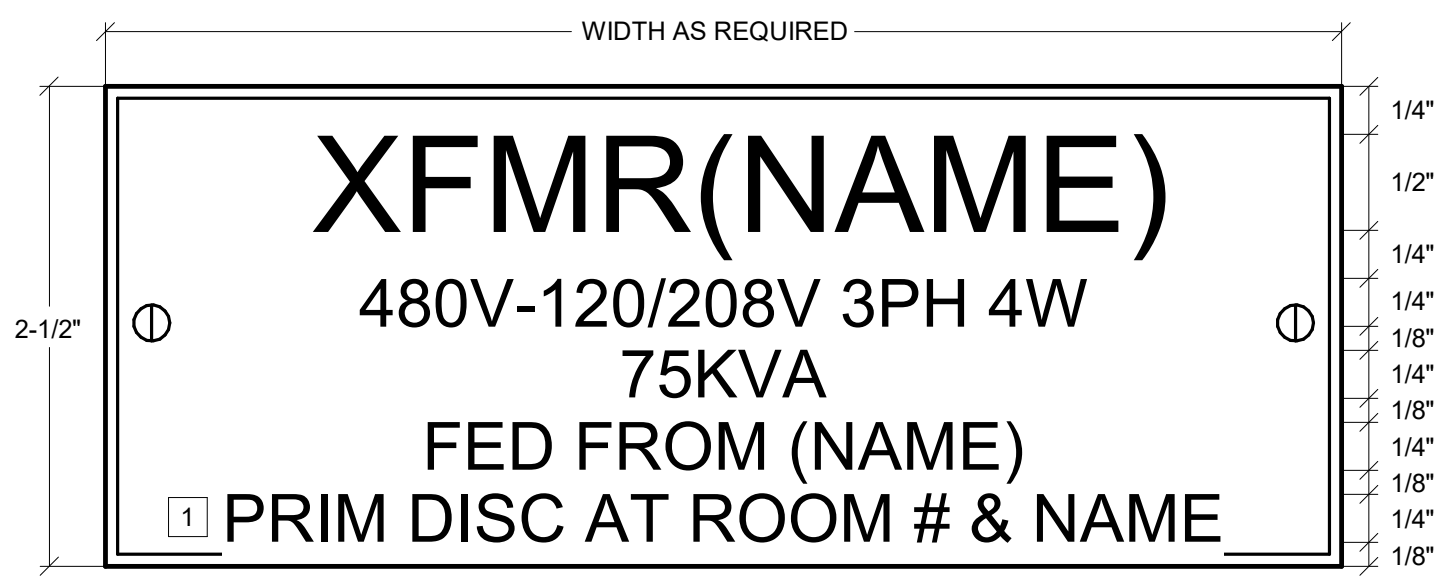
KEYNOTES:

- 1 BACK-BOX: FLUSH MOUNTED BOX WITH SINGLE GANG OR DOUBLE GANG COVER PLATE (AS APPLICABLE), SHOWN FOR REFERENCE ONLY.
- 2 COVER PLATE: PROVIDE UL LISTED WEATHERPROOF CAST ALUMINUM SINGLE GANG OR DOUBLE GANG COVER (AS APPLICABLE) THAT WILL ALLOW FOR CABLES TO REMAIN PLUGGED IN WHILE IN THE CLOSED POSITION.



SYMBOLS = INDICATED BY "WP"

1 IN-USE WEATHER PROOF COVER
NO SCALE

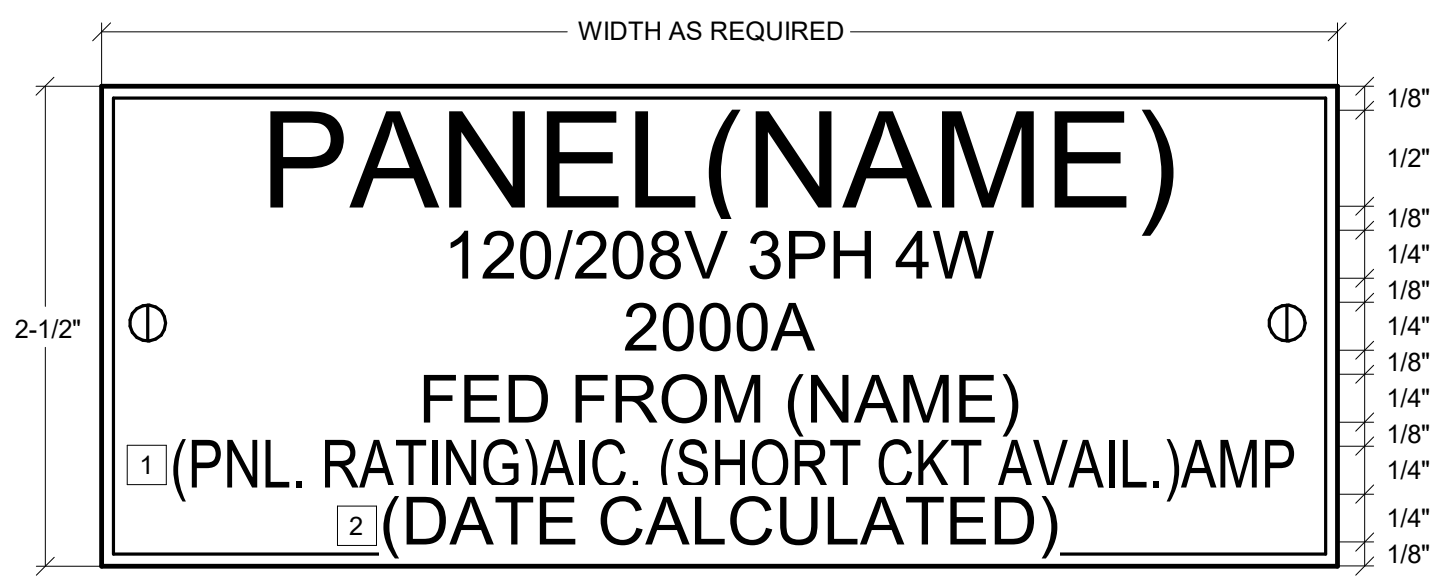


NOTE:

1. SEE SPECIFICATIONS FOR ADDITIONAL NAMEPLATE INFORMATION.

- 1 INDICATE LOCATION OF PRIMARY DISCONNECT

2 TRANSFORMER NAMEPLATE
NO SCALE

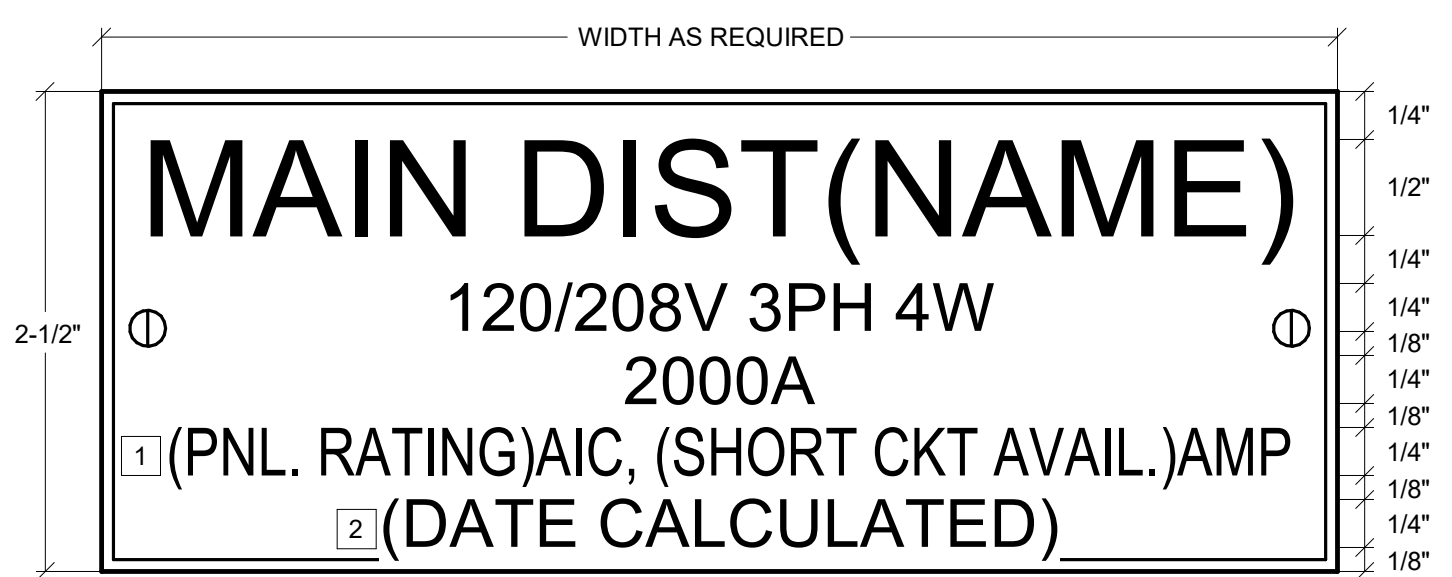


NOTE:

1. SEE SPECIFICATIONS FOR ADDITIONAL NAMEPLATE INFORMATION.

- 1 INDICATE BUS BRACING VALUE AND AVAILABLE FAULT CURRENT.
- 2 PROVIDE AND INDICATE DATE OF CALCULATION.

3 SUB DIST. CENTER & BRANCH PANEL NAME PLATE
NO SCALE

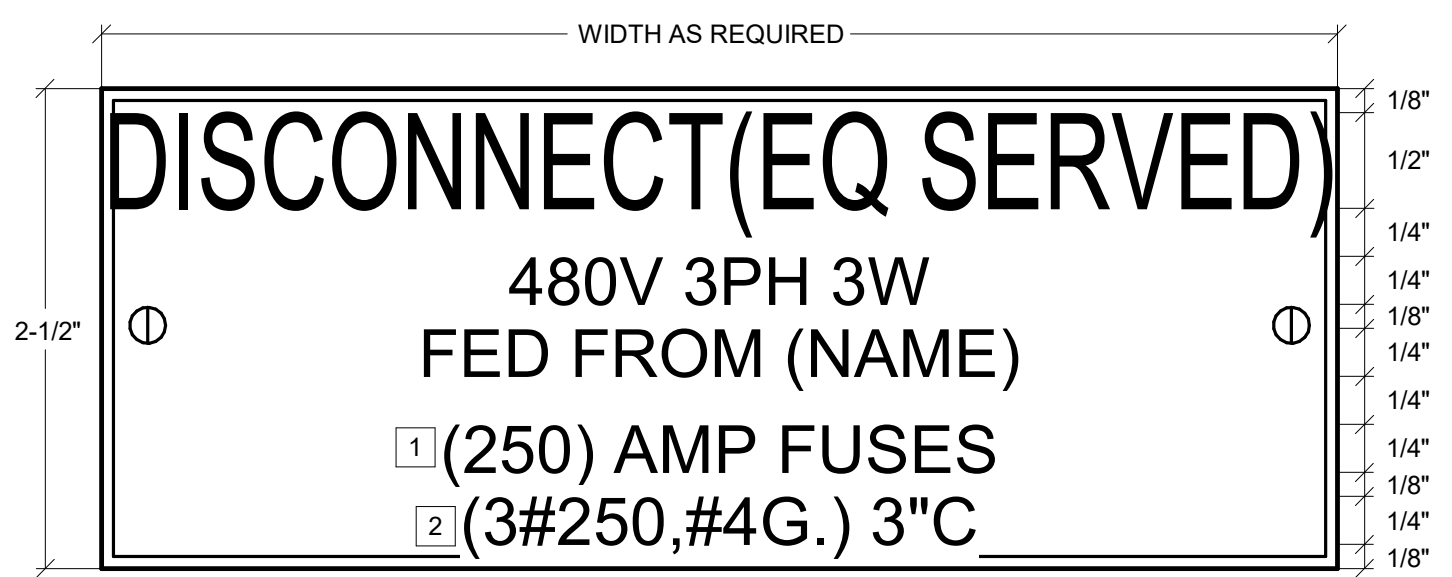


NOTE:

1. SEE SPECIFICATIONS FOR ADDITIONAL NAMEPLATE INFORMATION.

- 1 INDICATE BUS BRACING VALUE AND AVAILABLE FAULT CURRENT.
- 2 PROVIDE AND INDICATE DATE OF CALCULATION.

4 MAIN DIST. CENTER NAMEPLATE
NO SCALE

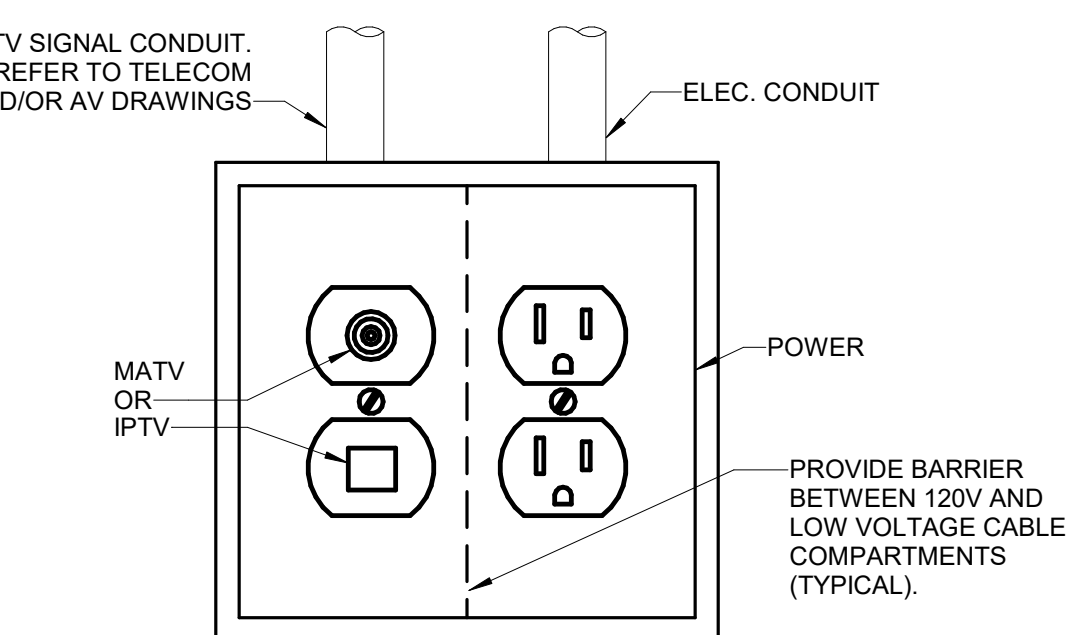


NOTE:

1. SEE SPECIFICATIONS FOR ADDITIONAL NAMEPLATE INFORMATION.

- 1 INDICATE FUSE SIZE, IF APPLICABLE
- 2 INDICATE BRANCH CIRCUIT WIRESIZE

5 DISCONNECT NAMEPLATE
NO SCALE



6 TV PLATE
NO SCALE

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Date	Description
2021.05.19	BP3: PROMENADE - ISSUE FOR BID AND PERMIT

Seal / Signature



Project Name

SSRC | BASE AREA IMPROVEMENTS

Project Number

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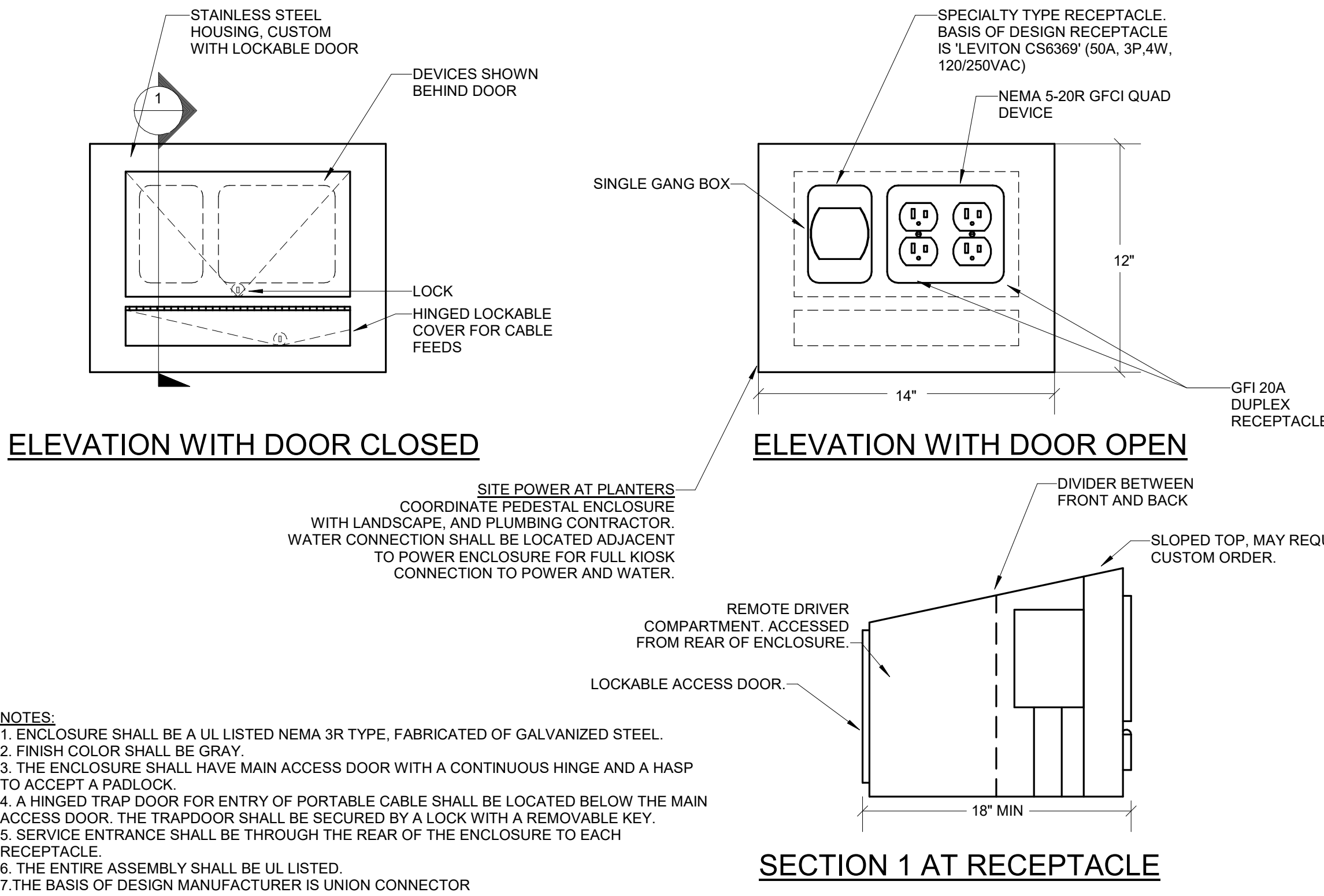
Description

PROMENADE - ELECTRICAL DETAILS

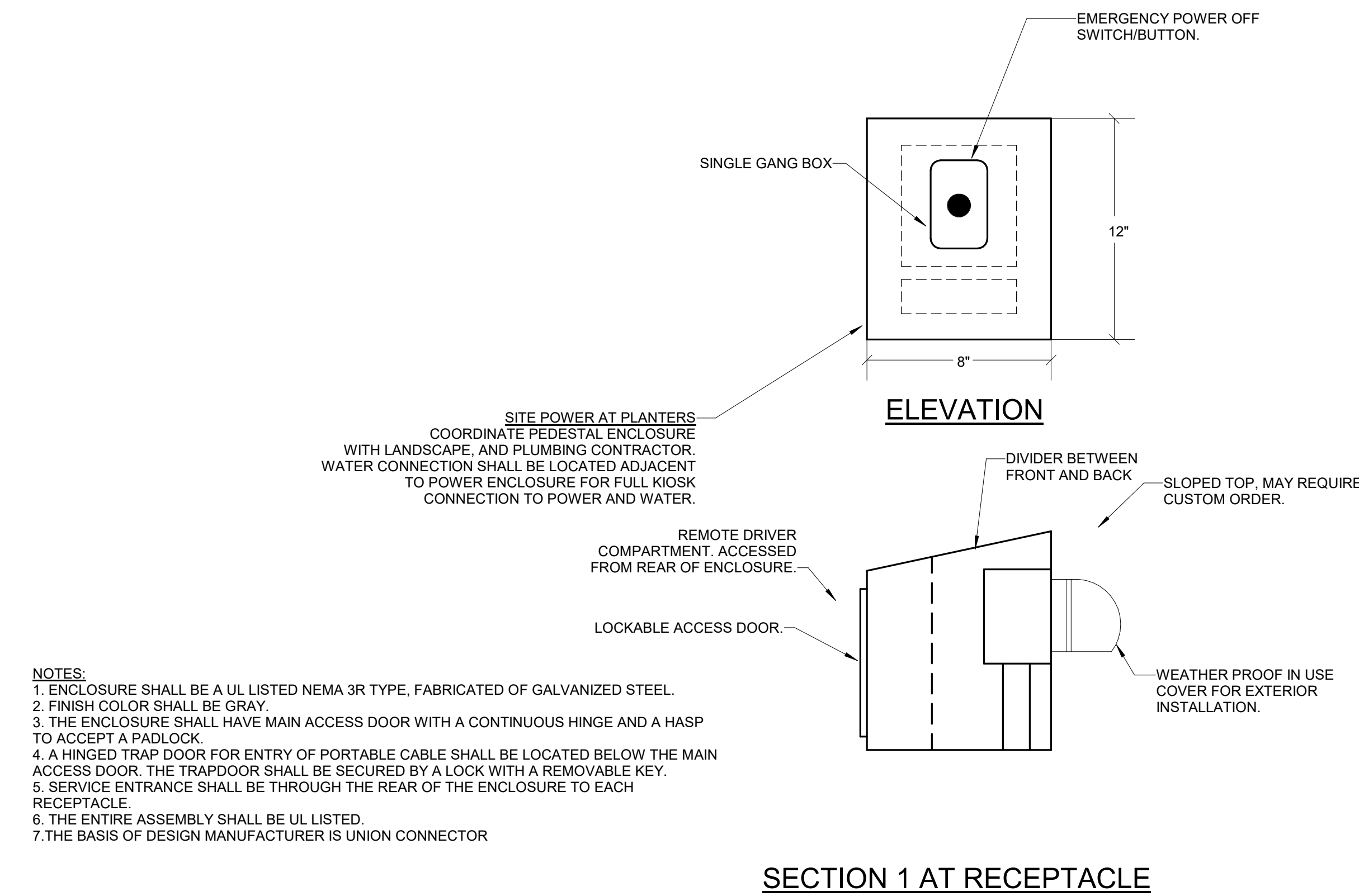
Scale

NO SCALE

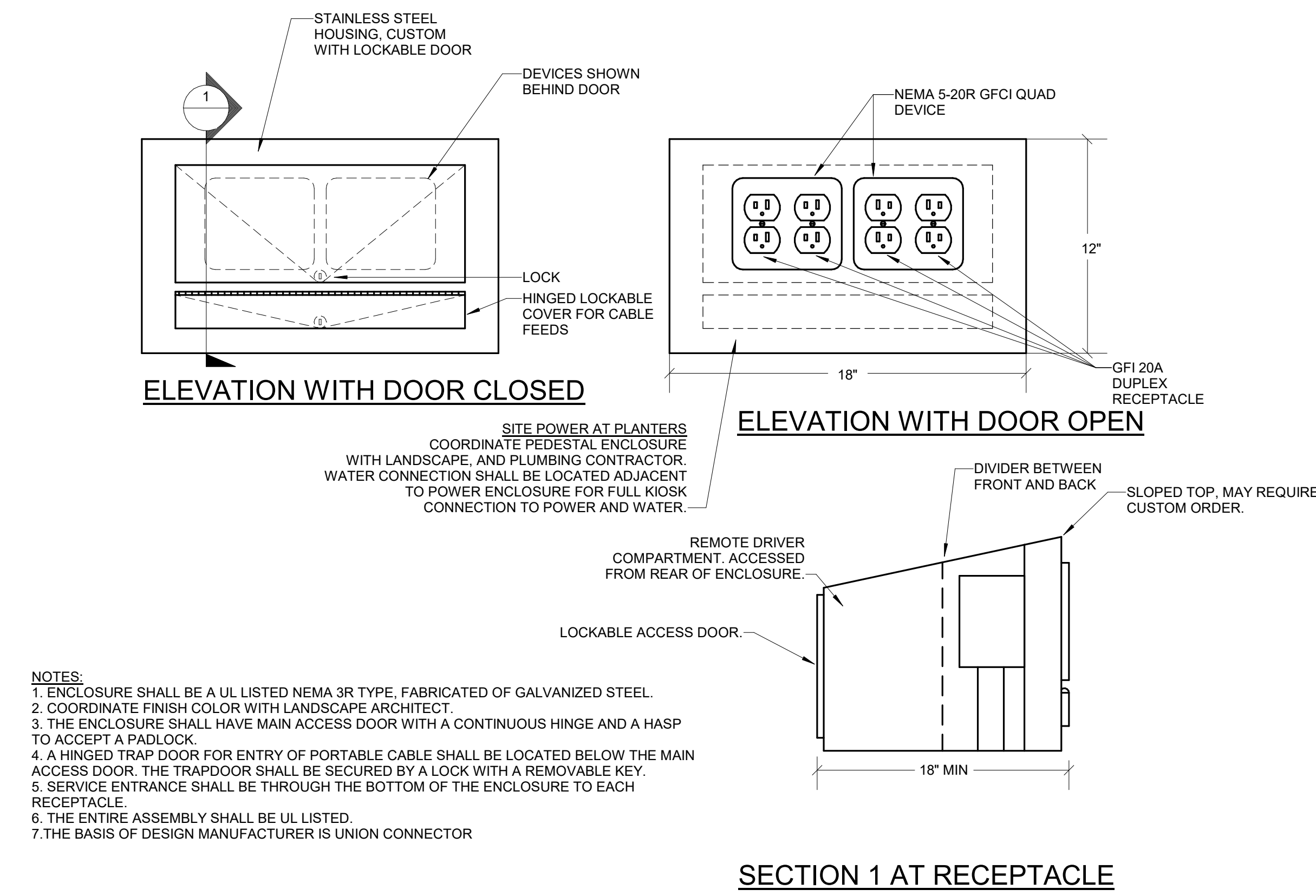
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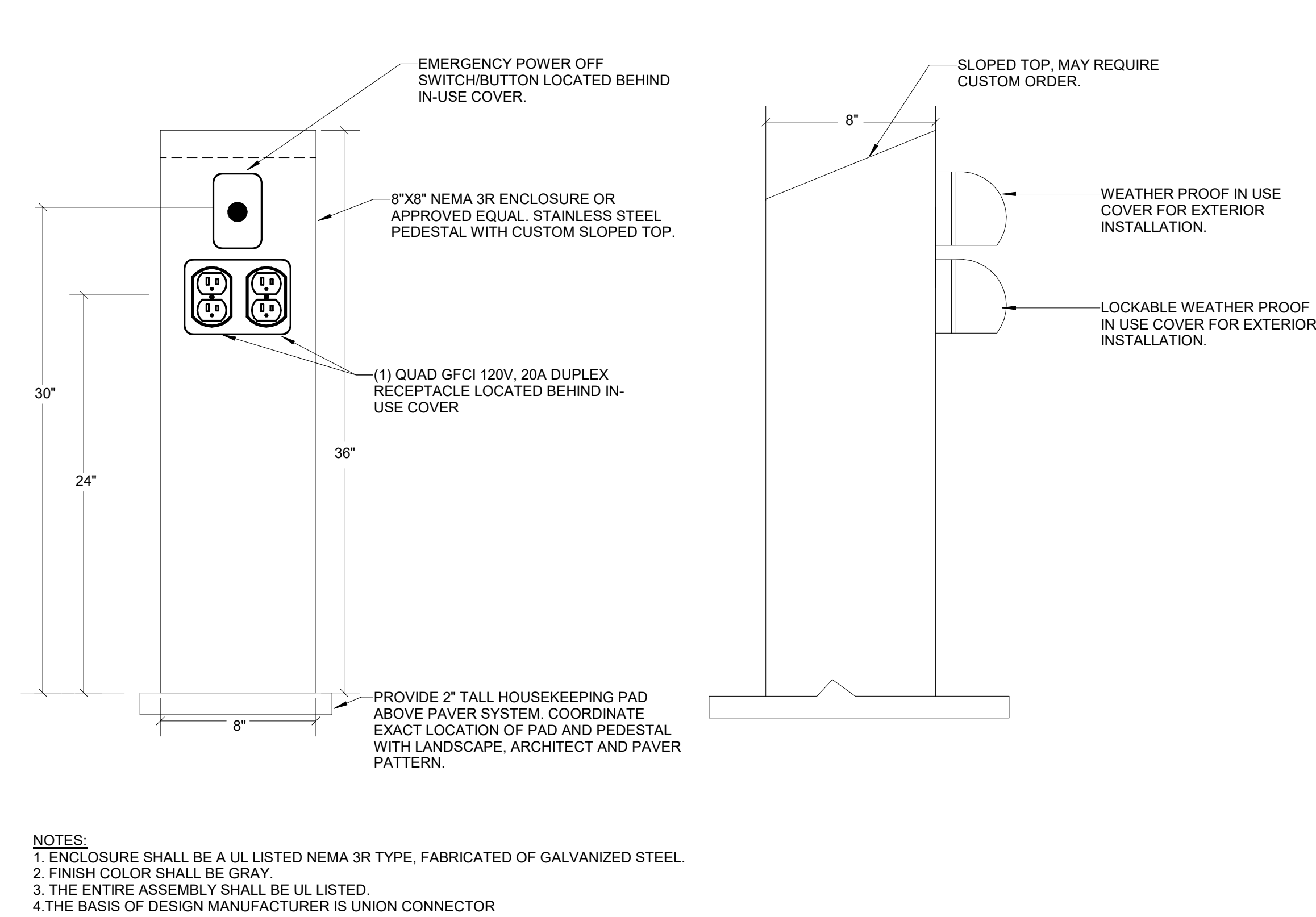
③ (DE) SITE POWER PEDESTAL - 12" QUAD, SC6369
NO SCALE



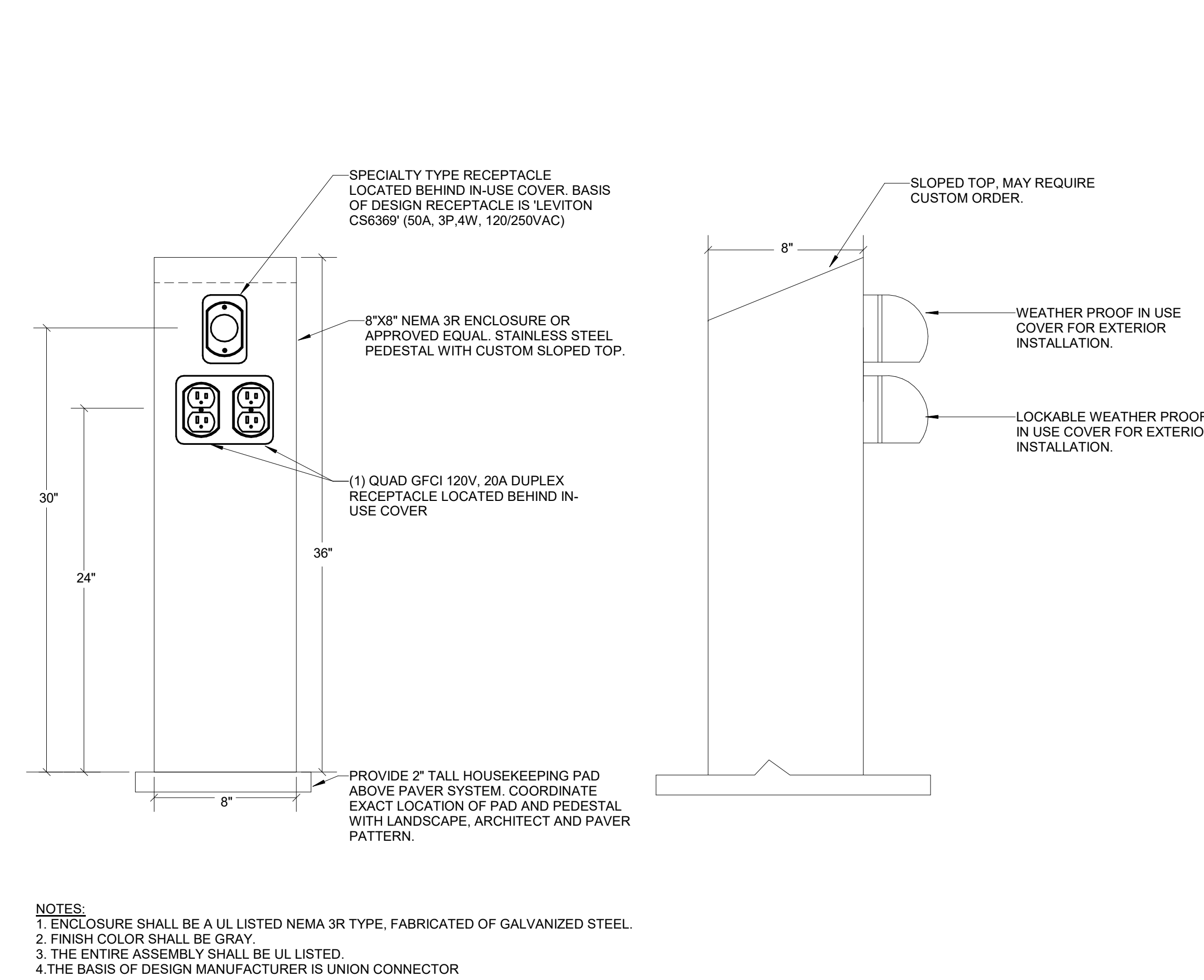
④ (DE) SITE POWER PEDESTAL - 12" EPO, FIREPLACE
NO SCALE



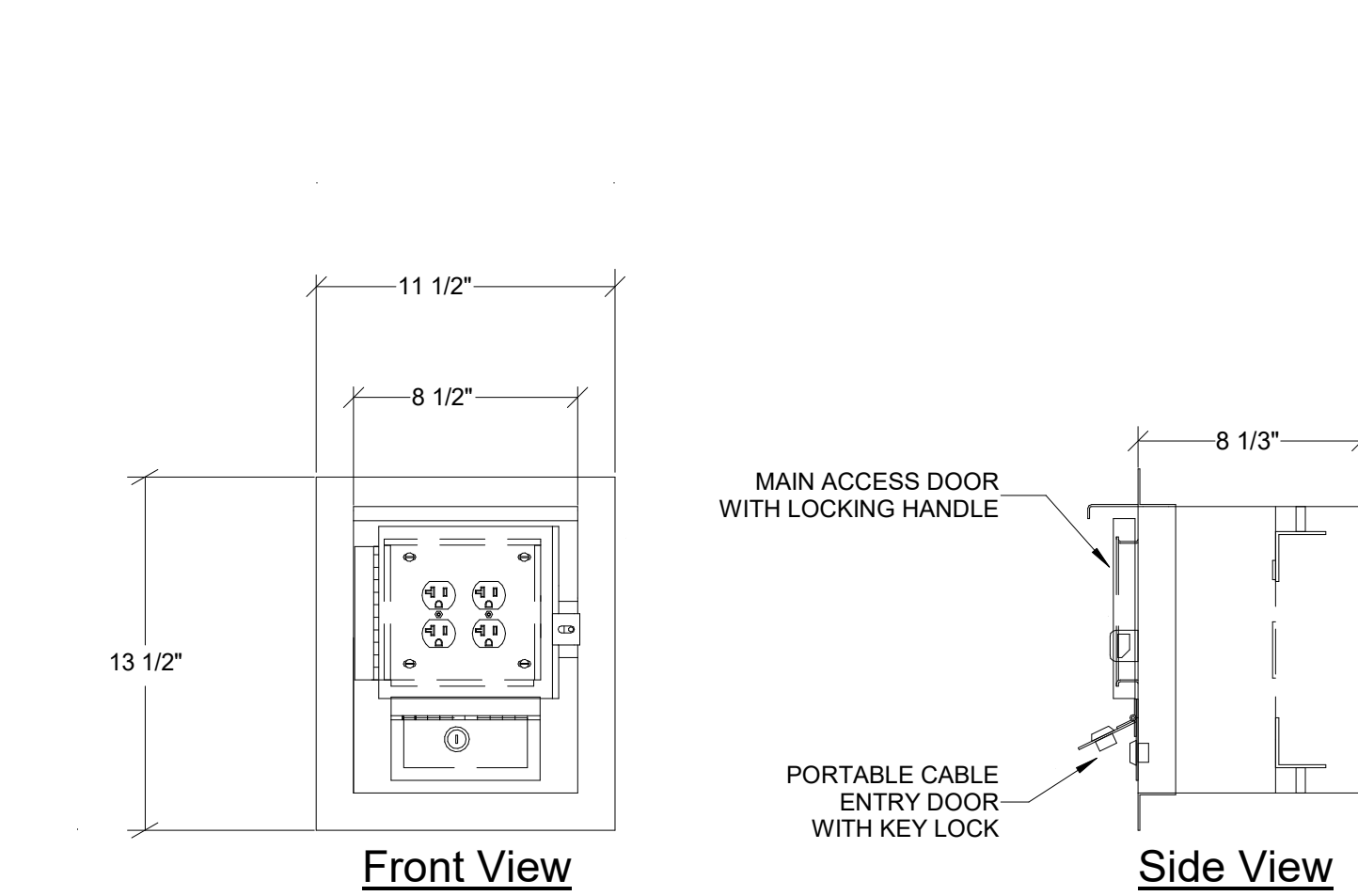
⑤ (DE) SITE POWER PEDESTAL - 12" (2) QUAD
NO SCALE



① (DE) SITE POWER PEDESTAL - 36" QUAD, EPO, FIREPLACE
NO SCALE



② (DE) SITE POWER PEDESTAL - 36" QUAD, CS6369
NO SCALE



CONSTRUCTION SPECIFICATIONS:
1. ENCLOSURE SHALL BE A UL LISTED NEMA 3R TYPE, FABRICATED OF GALVANIZED STEEL.
2. FINISH COLOR SHALL BE GRAY.
3. ENCLOSURE SHALL HAVE 1 1/2" FLANGE ON ALL SIDES TO COVER THE ROUGH OPENING.
4. THE ENCLOSURE SHALL HAVE MAIN ACCESS DOOR WITH A CONTINUOUS HINGE AND A HASP TO ACCEPT A PADLOCK.
5. A HINGED TRAP DOOR FOR ENTRY OF PORTABLE CABLE SHALL BE LOCATED BELOW THE MAIN ACCESS DOOR. THE TRAPDOOR SHALL BE SECURED BY A LOCK WITH A REMOVABLE KEY.
6. SERVICE ENTRANCE SHALL BE THROUGH THE REAR OF THE ENCLOSURE TO EACH RECEPTACLE.
7. THE RECEPTACLES PROVIDED SHALL BE (1) 20A, 125V, 5-20R DUPLEX
8. THE ENTIRE ASSEMBLY SHALL BE UL LISTED.
9. THE BASIS OF DESIGN IS RC20FLUG/LV-2/2-3R-TAM01 AS MANUFACTURED BY UNION CONNECTOR

⑥ BACK TO BACK BOXES ARRANGEMENT-NOISE/FIRE RATING
NO SCALE

RCRBD
Record Set
Electrical
07/01/2021

△	Date	Description
-	2021.05.19	BP3: PROMENADE - ISSUE FOR BID AND PERMIT

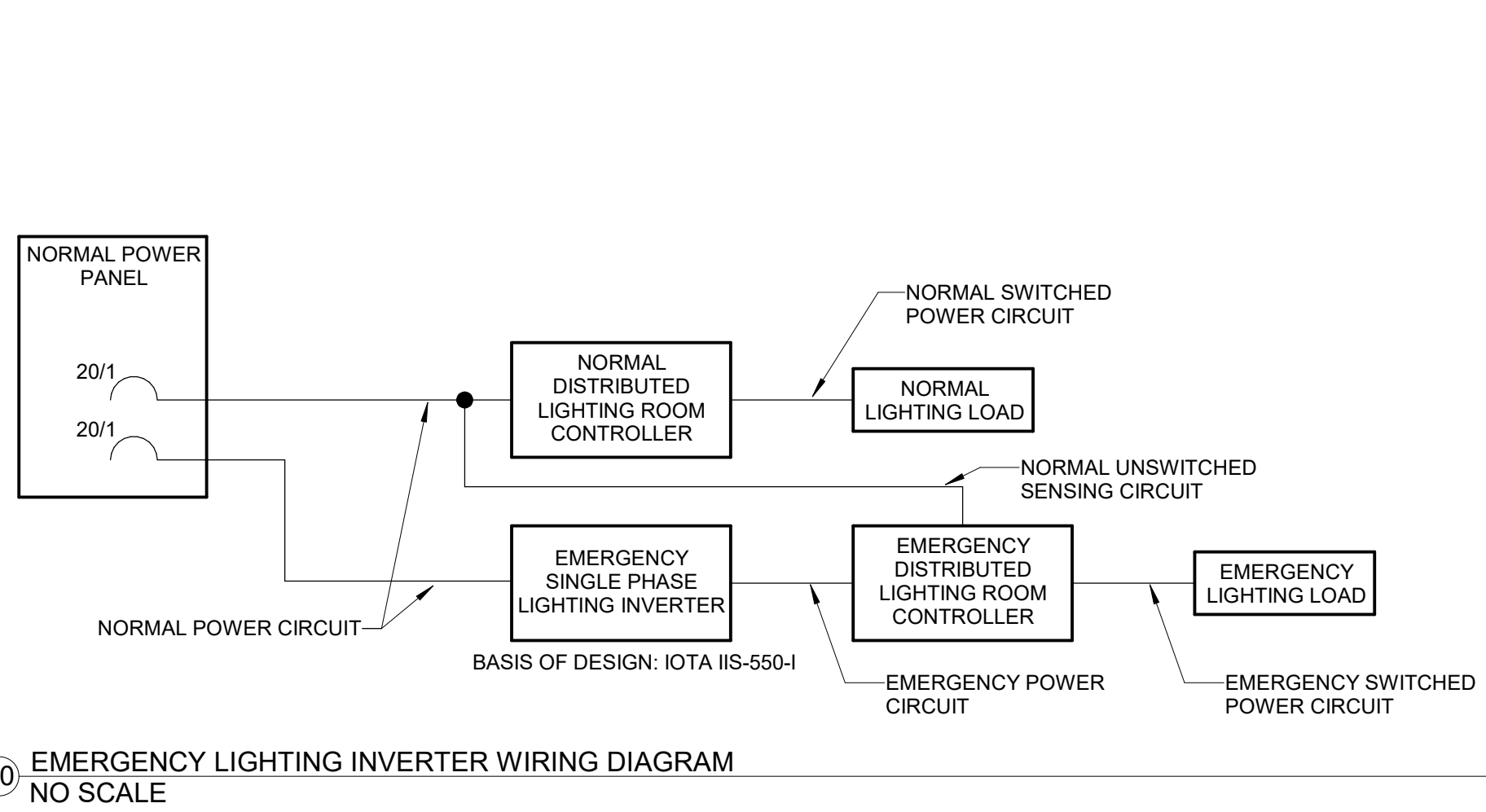
Seal / Signature



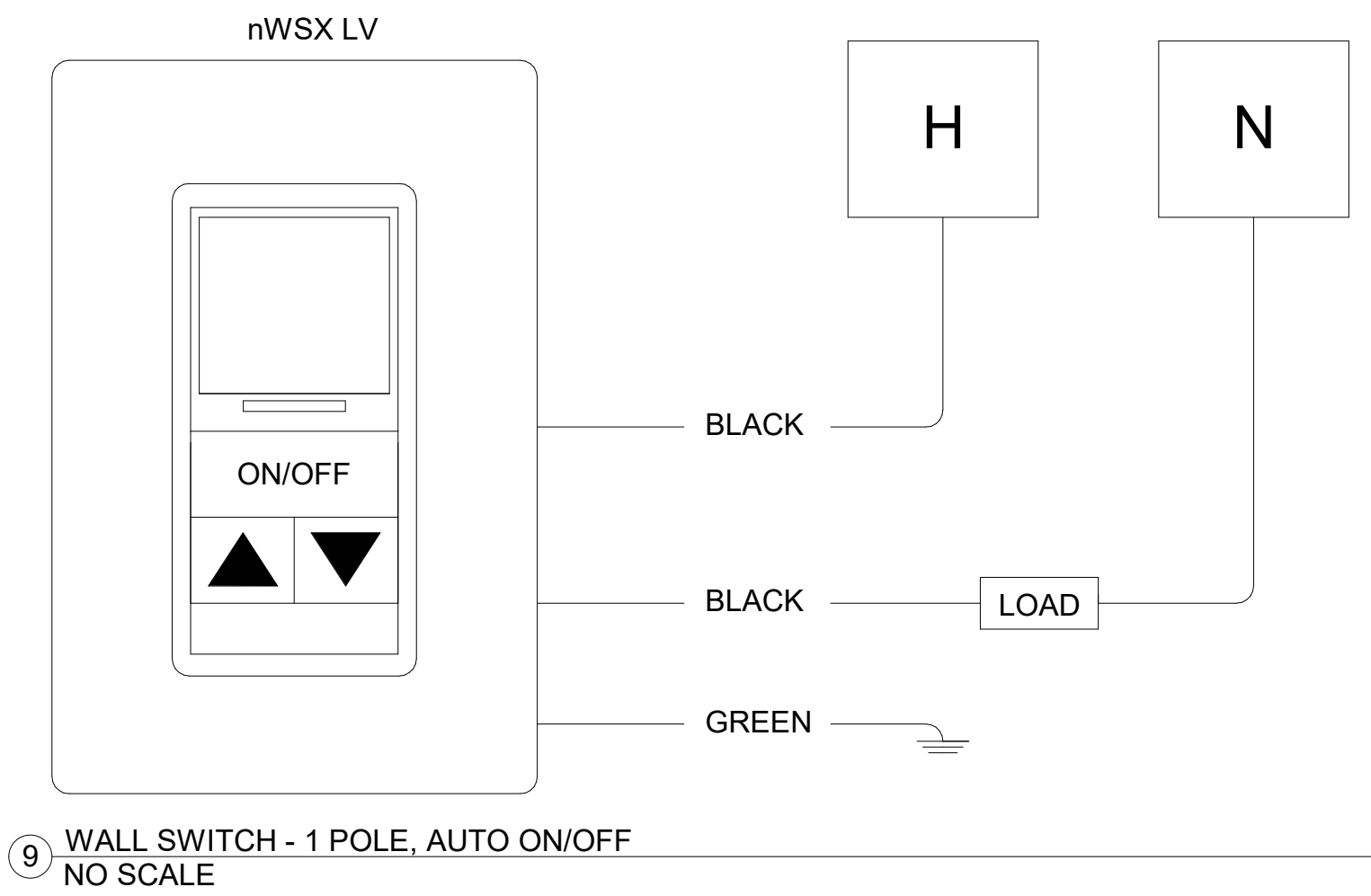
Project Name
SSRC | BASE AREA IMPROVEMENTS
Project Number
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Description
PROMENADE - ELECTRICAL DETAILS

Scale
NO SCALE

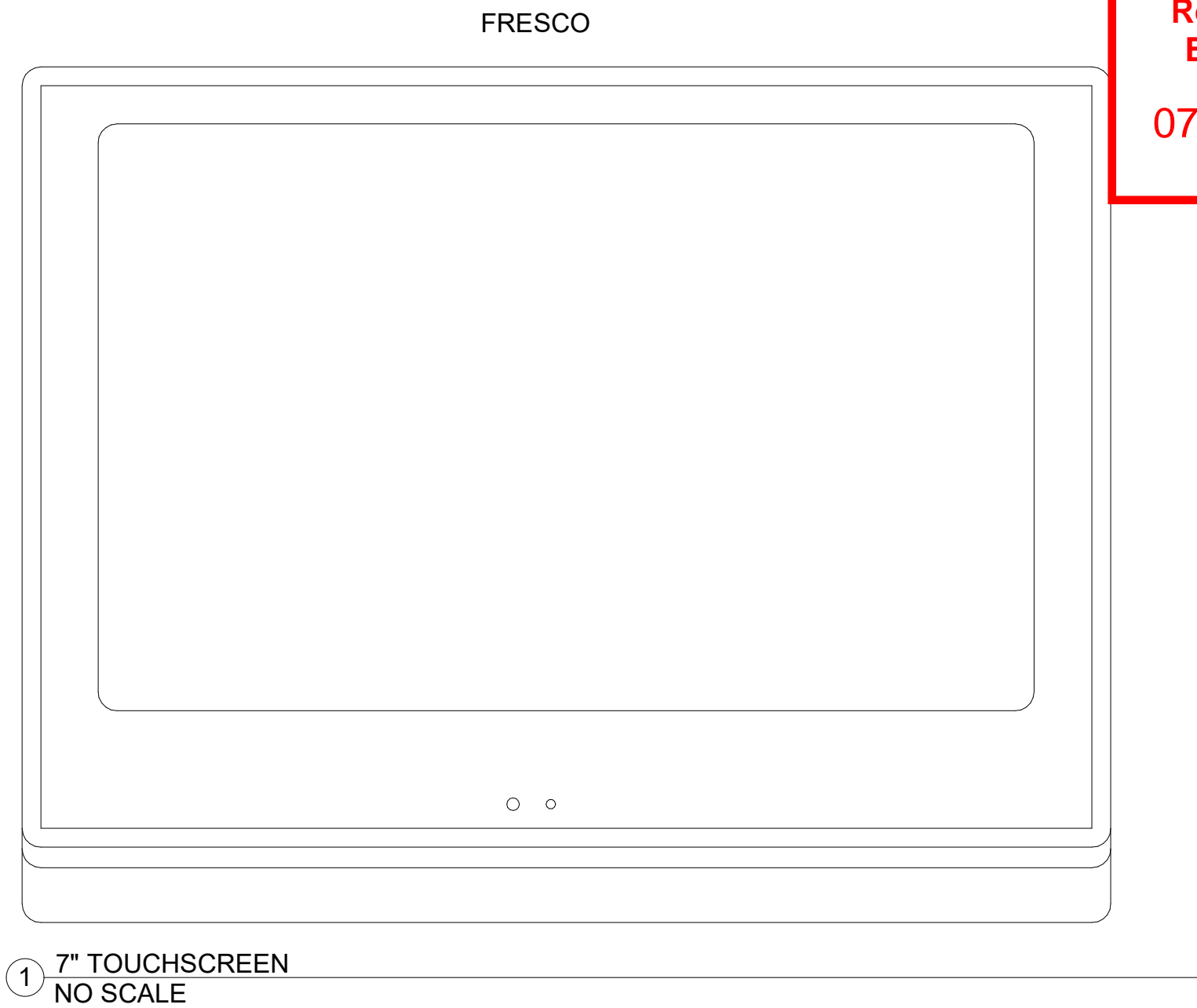
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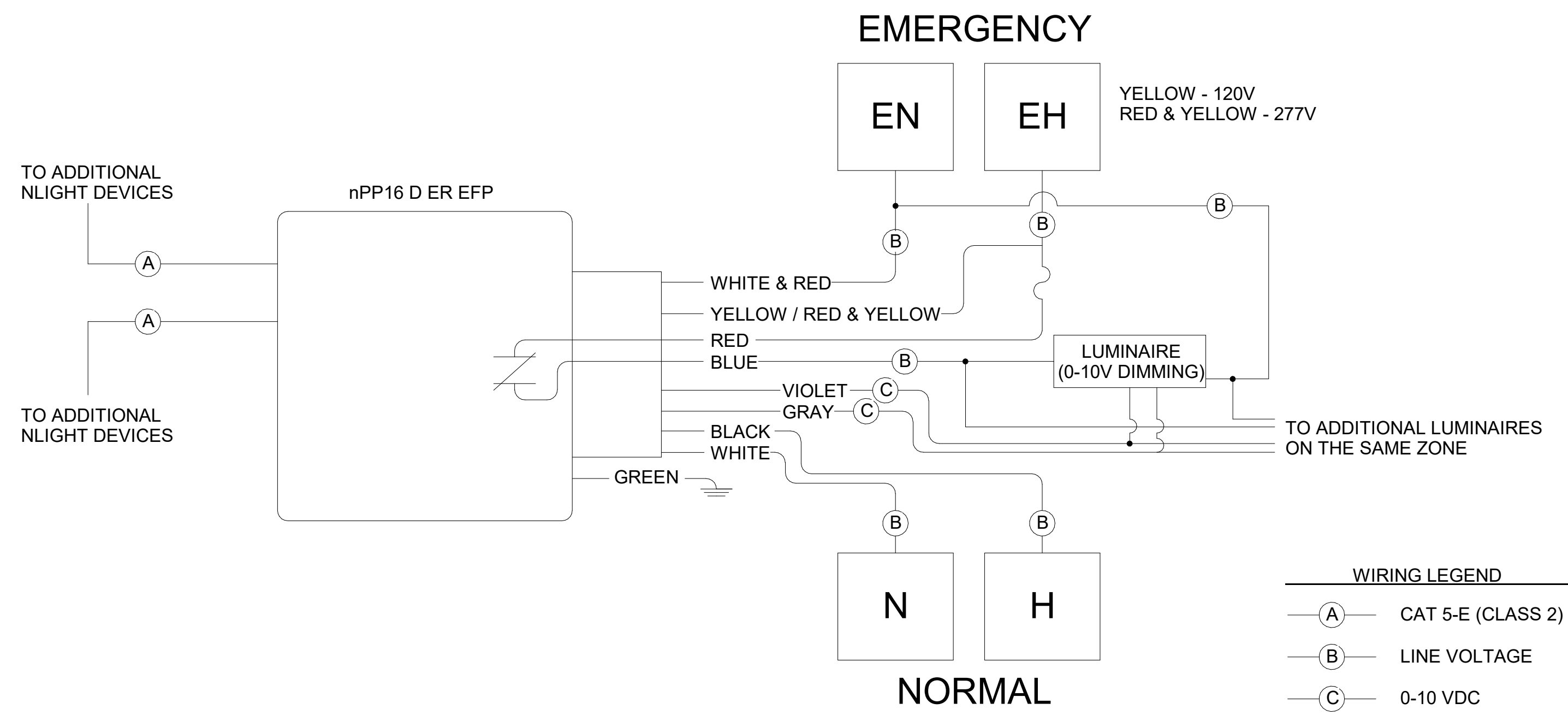
10 EMERGENCY LIGHTING INVERTER WIRING DIAGRAM
NO SCALE



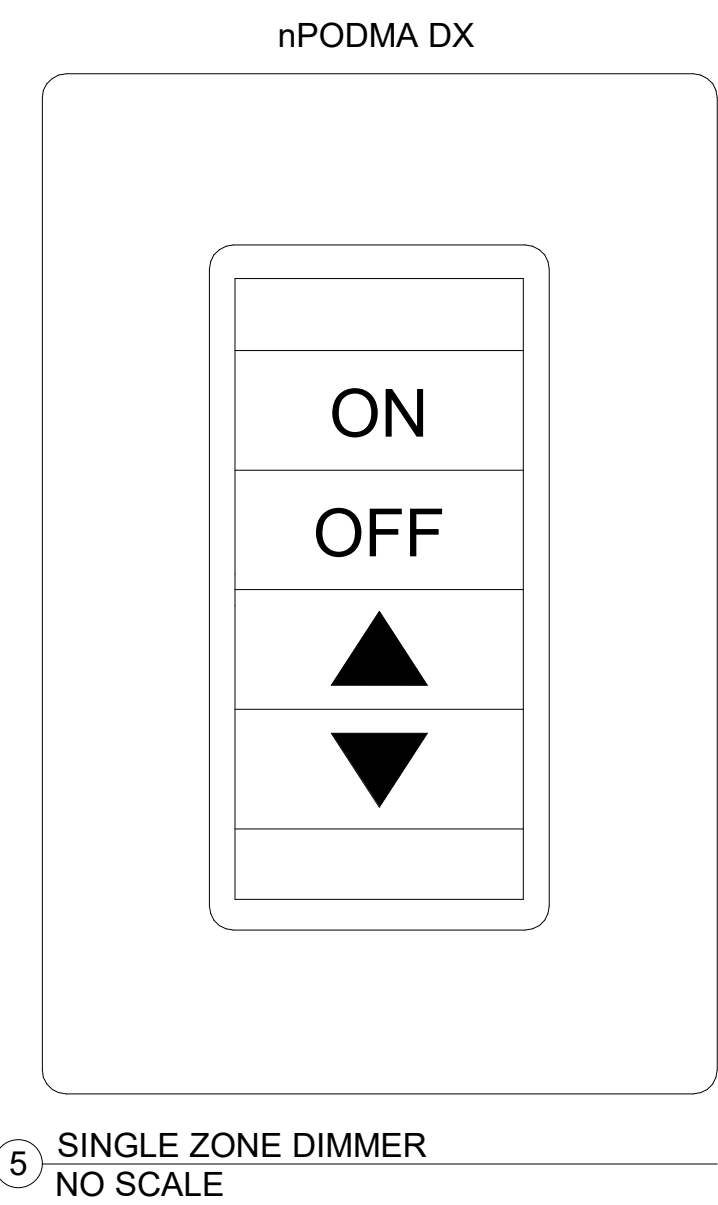
9 WALL SWITCH - 1 POLE, AUTO ON/OFF
NO SCALE



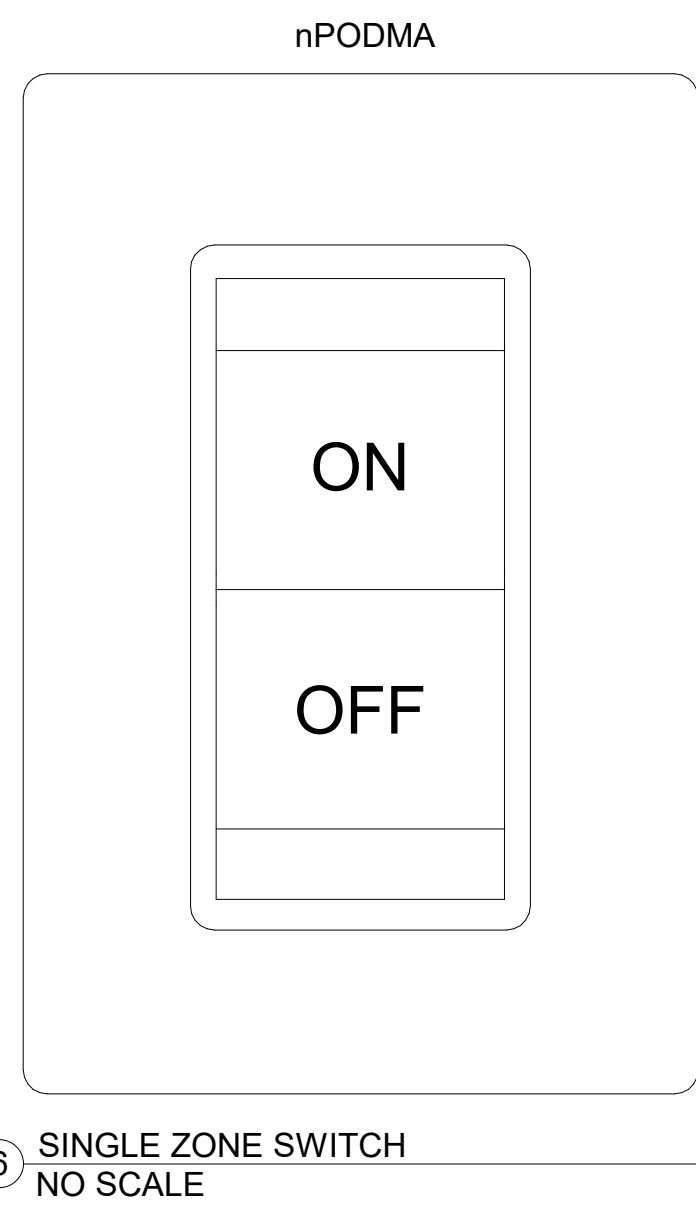
1 7" TOUCHSCREEN
NO SCALE



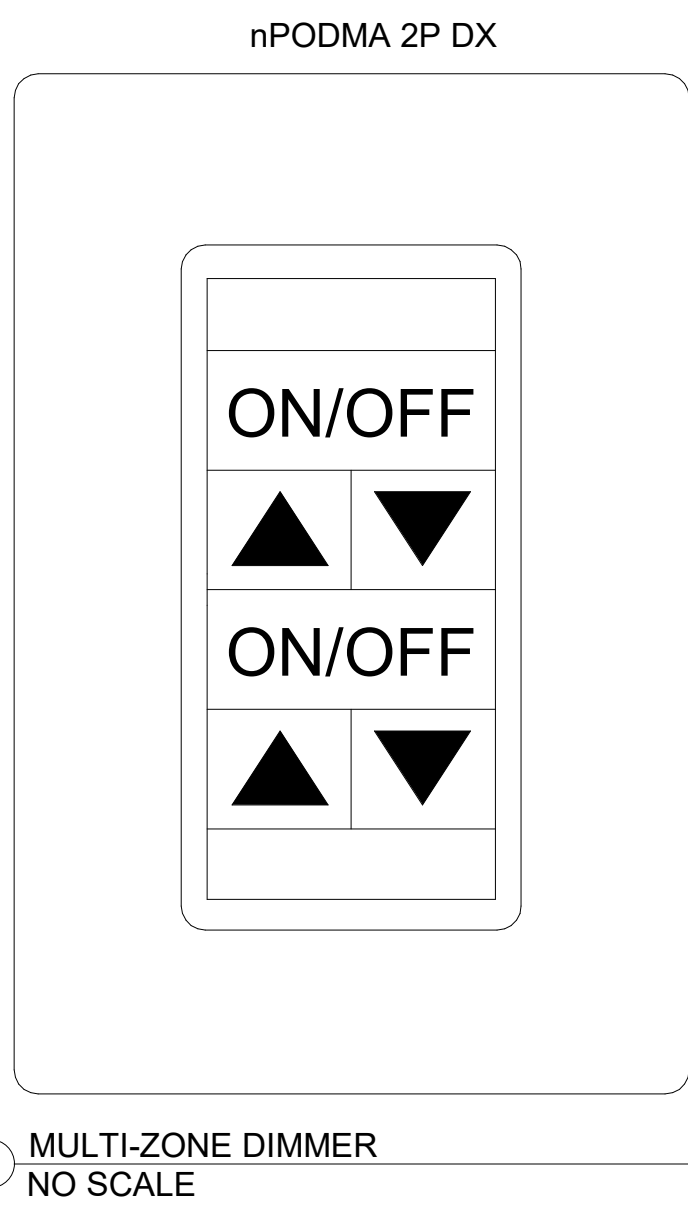
11 TYPICAL WIRING DIAGRAM: NPP16 D ER EFP
NO SCALE



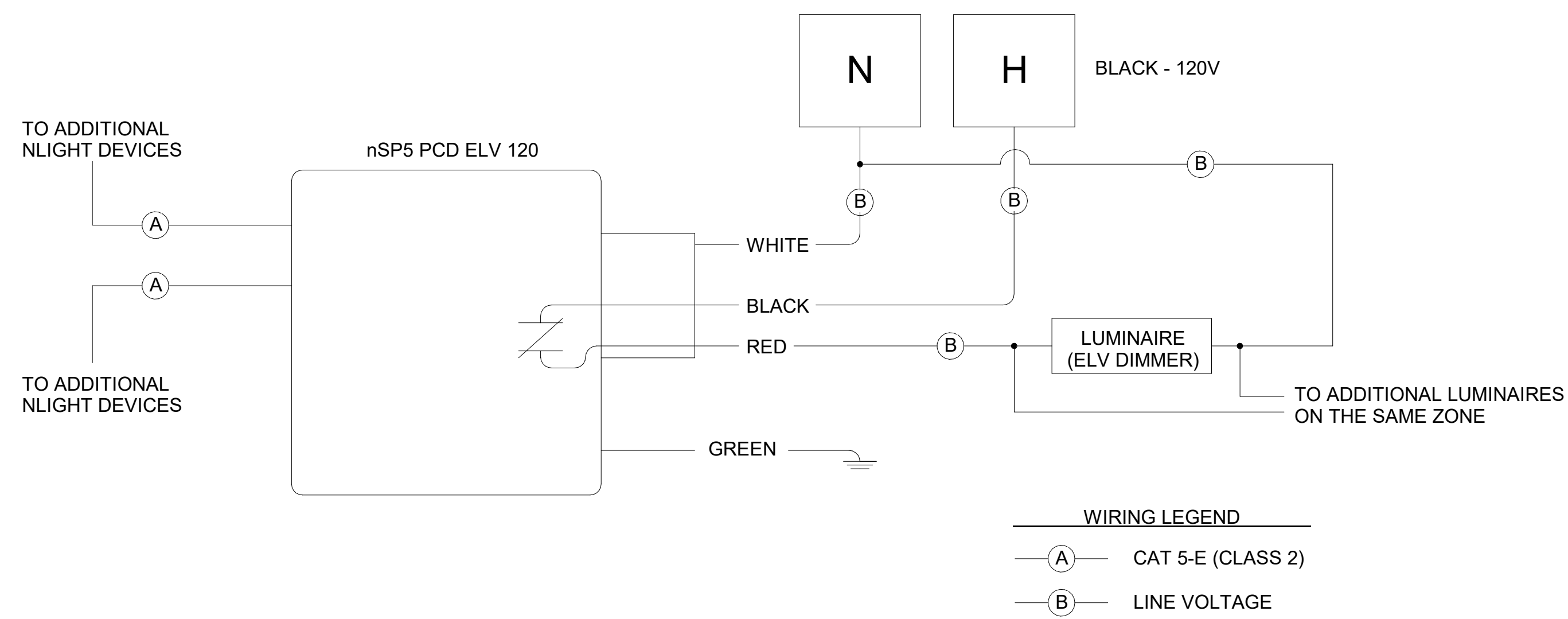
5 SINGLE ZONE DIMMER
NO SCALE



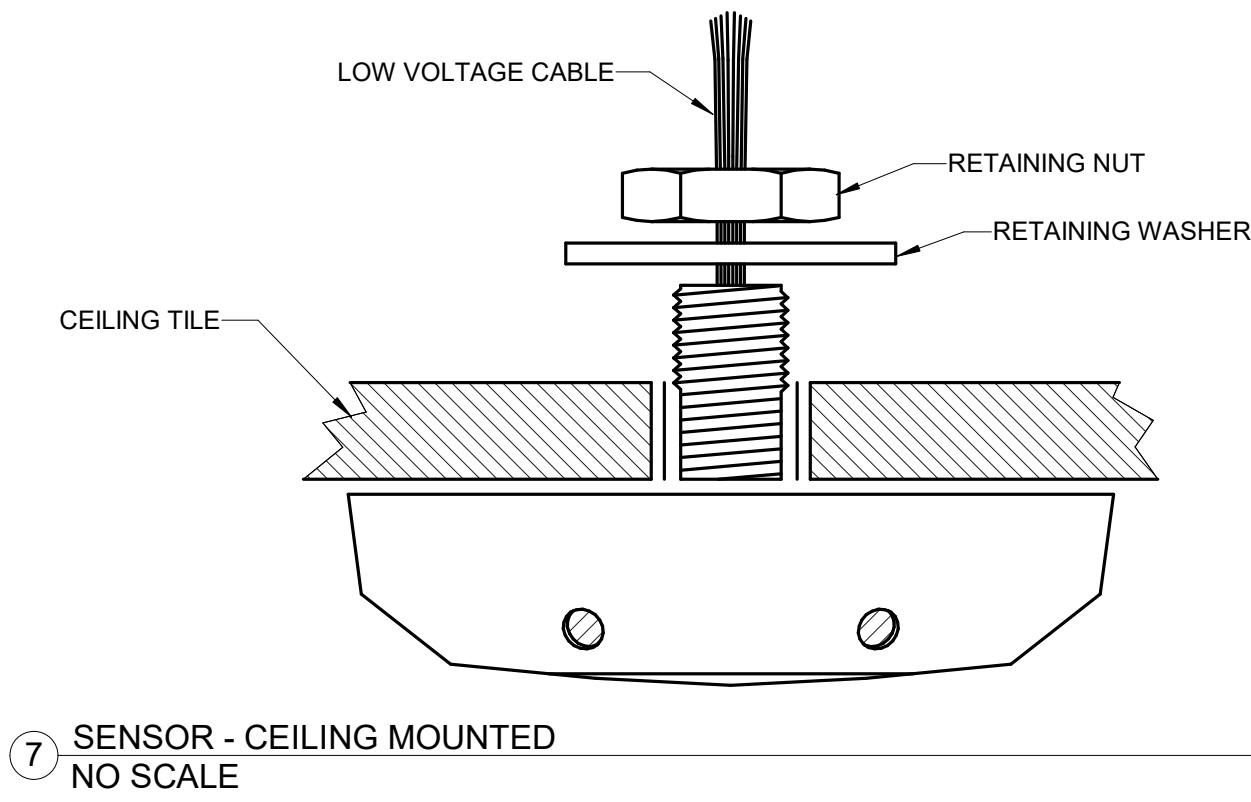
6 SINGLE ZONE SWITCH
NO SCALE



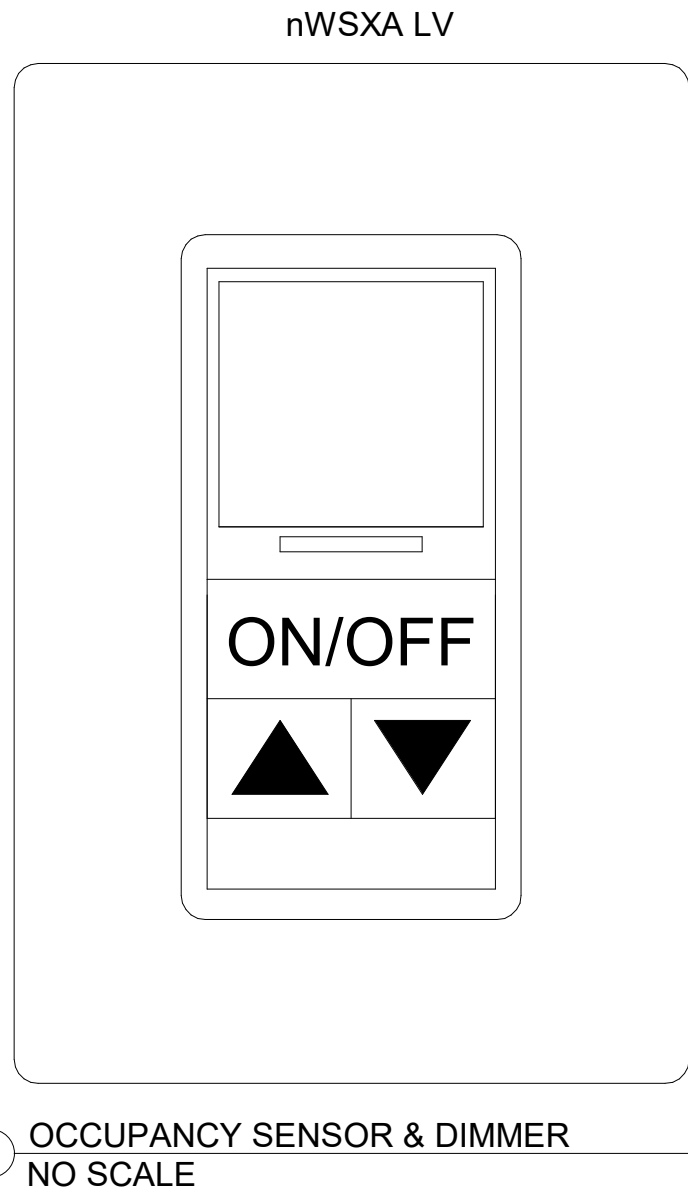
2 MULTI-ZONE DIMMER
NO SCALE



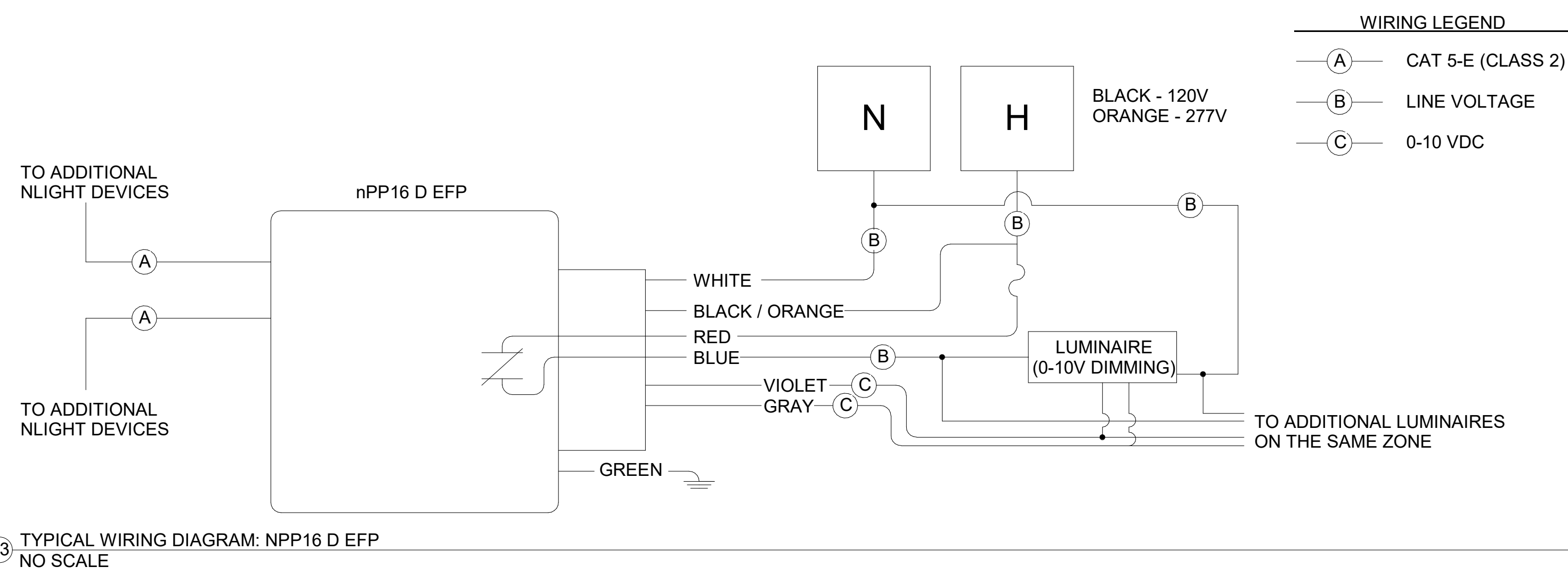
12 TYPICAL WIRING DIAGRAM: NSP5 PCD ELV 120
NO SCALE



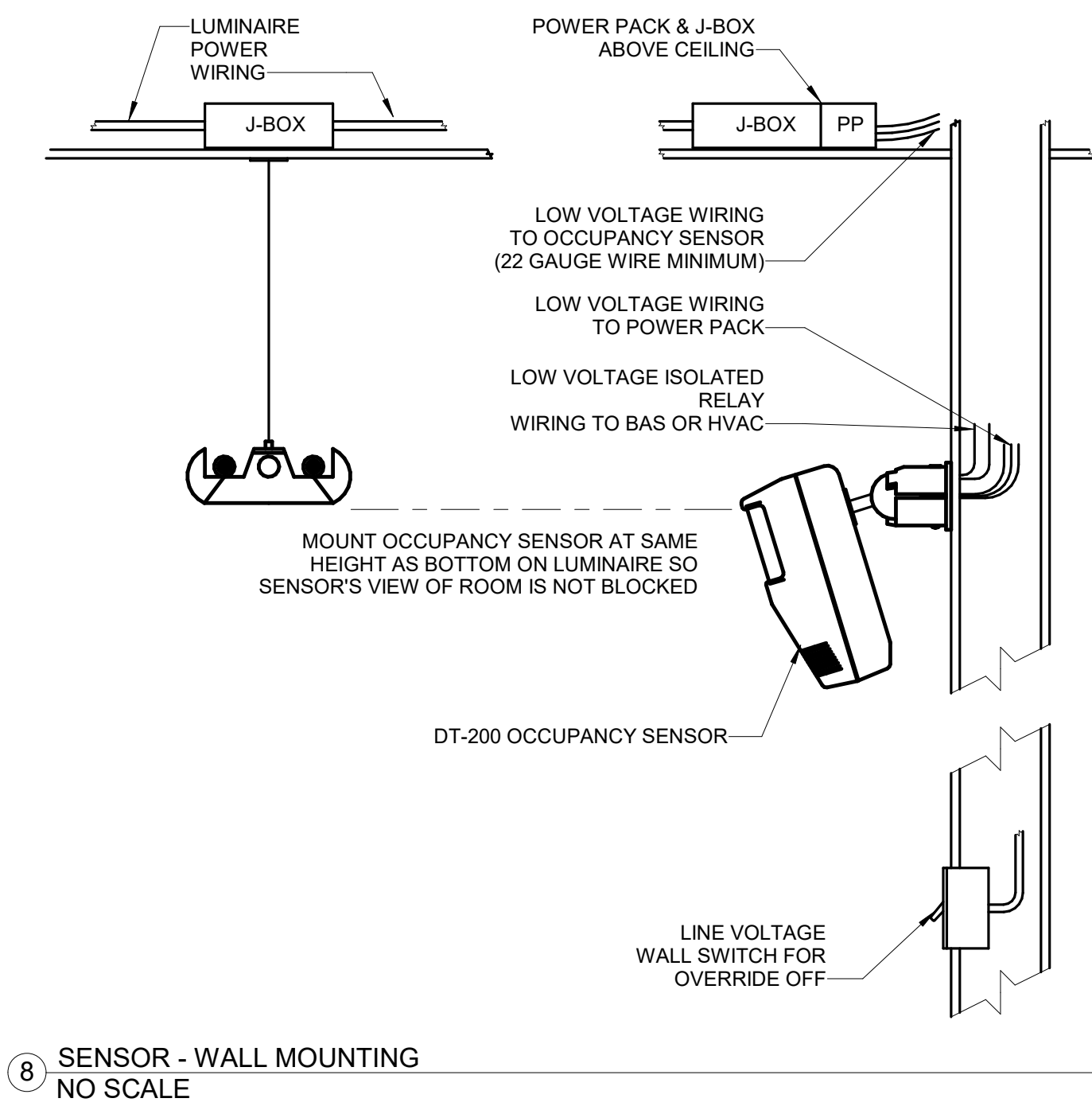
7 SENSOR - CEILING MOUNTED
NO SCALE



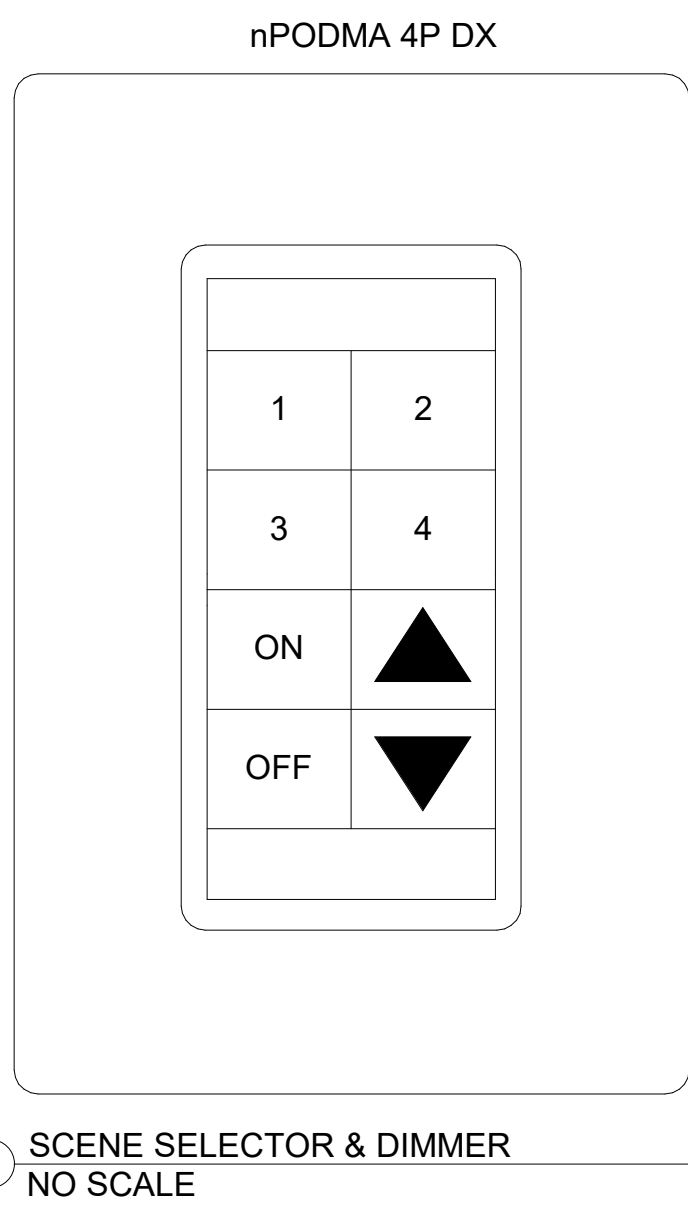
3 OCCUPANCY SENSOR & DIMMER
NO SCALE



13 TYPICAL WIRING DIAGRAM: NPP16 D EFP
NO SCALE



8 SENSOR - WALL MOUNTING
NO SCALE



4 SCENE SELECTOR & DIMMER
NO SCALE

RCRBD
Record Set
Electrical
07/01/2021

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Date	Description
2021.05.19	BP3: PROMENADE - ISSUE FOR BID AND PERMIT

Seal / Signature



Project Name
SSRC | BASE AREA IMPROVEMENTS
Project Number
003.7835.000
Description
PROMENADE - ELECTRICAL DETAILS

Scale
As indicated

1A-E8.003