

BUILDING CODE ANALYSIS

PROJECT DESCRIPTION

EXISTING BUILDING AT 5415 KING JAMES WAY, FITCHBURG, WISCONSIN, CONSTRUCTED IN 1993 AS A FIRE STATION. RENOVATION TO RE-PURPOSE THE BUILDING FOR USE BY THE DANE COUNTY EMERGENCY MANAGEMENT DEPARTMENT WITH THE PRIMARY OCCUPANCY CLASSIFICATION OF CIVIC ADMINISTRATION (B: BUSINESS) AND SECONDARY OCCUPANCY OF EMERGENCY VEHICLE STORAGE (S-1: MEDIUM HAZARD STORAGE).

APPLICABLE CODES

THE FOLLOWING STATE AND NATIONAL CODES WERE ADOPTED AS LAW, OR AS REQUIRED BY LAW, WITH AMENDMENTS AS LISTED IN DIVISION 3, SECTIONS 35-77 OF CHAPTER 35 - BUILDINGS AND BUILDING REGULATIONS OF THE CITY OF FITCHBURG, WISCONSIN CODE OF ORDINANCES.

Table with 2 columns: BUILDING and CODES. Rows include WIS. ADMIN. CODE SPS 361-365 AND INTERNATIONAL BUILDING CODE 2015, INTERNATIONAL ENERGY CONSERVATION CODE 2015, INTERNATIONAL MECHANICAL CODE 2015, WIS. ADMIN. CODE SPS 316 ELECTRICAL CODE, WIS. ADMIN. CODE SPS 381-387 PLUMBING CODE, ADOPTED PORTIONS OF INTERNATIONAL FIRE CODE 2015, ICC A117.1 (2009) STANDARD FOR ACCESSIBLE & USABLE BLDGS & FACILITIES.

International Existing Building Code Section 403.1 Except as provided by Section 401.2 or this section, alterations to any building or structure shall comply with the requirements of the International Building Code for new construction.

CHAPTER 3 - OCCUPANCY CLASSIFICATION

Table with 4 columns: CODE SECT., GROUP, DESCRIPTION OF OCCUPANCY, GROSS SQUARE FOOTAGE (GSF). Rows include 303.4 A-3 ASSEMBLY, 304.1 B BUSINESS, 311.2 S-1 MEDIUM-HAZARD STORAGE, 311.2 S-1 MEDIUM-HAZARD STORAGE, BUILDING TOTAL 16,920 GSF.

CHAPTER 5 - GENERAL BUILDING HEIGHTS AND AREAS

Table with 7 columns: USE GROUP, CONST. TYPE, S, HEIGHT in feet, STORIES, (S1) AREA in square feet, TOTAL ALLOWABLE AREA (for 1 story). Includes sections for SECTION 504, SECTION 506, and TABLE 504.3, 504.4, 506.2. Rows include ALLOWED and ACTUAL values for A-3, B, and S-1 occupancy types.

International Existing Building Code Section 508.3 Buildings or portions of buildings that comply with the provisions of this section shall be considered as nonseparated occupancies.

CHAPTER 6 CONSTRUCTION TYPES/ REQUIREMENTS

Table with 4 columns: SECTION, TYPE, REQUIREMENTS, RATING. Rows include TABLE 601 (STRUCTURAL FRAME BEARING WALLS - EXTERIOR, INTERIOR, NON-BEARING WALLS - EXTERIOR, FLOORS, ROOF) and 708.1: 1020.1 (PARTITIONS (CORRIDORS for Use Groups B, S)).

SECTION 602 CONSTRUCTION CLASSIFICATION

Table with 3 columns: FIRE SEPARATION DISTANCE = X (feet), TYPE OF CONSTRUCTION, OCCUPANCY GROUP B, S-2P. Row includes X >= 30, ALL, 0.

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SECTION 423: STORM SHELTERS

423.3 CRITICAL EMERGENCY OPERATIONS. SPS 362.0423 STORM SHELTERS. THE REQUIREMENTS IN IBC SECTIONS 423.3 AND 423.4 ARE NOT INCLUDED AS PART OF CHS. SPS 361 TO 366.

SECTION 8 INTERIOR FINISHES 803.1.1 INTERIOR WALL AND CEILING FINISH MATERIALS. INTERIOR WALL AND CEILING FINISH MATERIALS SHALL BE CLASSIFIED IN ACCORDANCE WITH ASTM E84 OR UL 723. CLASS A = FLAME SPREAD INDEX 0-25; SMOKE-DEVELOPED INDEX 0-450. CLASS B = FLAME SPREAD INDEX 26-75; SMOKE-DEVELOPED INDEX 0-450. CLASS C = FLAME SPREAD INDEX 76-200; SMOKE-DEVELOPED INDEX 0-450.

TABLE 803.11 INTERIOR WALL AND CEILING FINISH REQUIREMENTS BY OCCUPANCY. Table with 4 columns: GROUP, INTERIOR EXIT STAIRWAYS AND RAMPS AND EXIT PASSAGEWAYS (SPRINKLERED), CORRIDORS & ENCLOSURE FOR EXIT ACCESS STAIRWAYS & RAMPS (SPRINKLERED), ROOMS AND ENCLOSED SPACES (SPRINKLERED). Rows include A-3, B, S.

CHAPTER 10- MEANS OF EGRESS

SECTION 1004 OCCUPANT LOAD. Table with 6 columns: AREAS, OCCUPANCY, USE, GROSS SF, OCC LOAD FACTOR (TBL. 1004.1.2), OCCUPANTS. Rows include FIRST FLOOR A-3, FIRST FLOOR B, FLEET STORAGE S-1, BASEMENT S-1, TOTAL BUILDING 174.

SECTION 1005.3.2 - MEANS OF EGRESS SIZING. Table with 5 columns: EXIT DOORS & OTHER COMPONENTS, MAX. OCCUPANT LOAD, WIDTH/OCCUPANT (INCHES), TOTAL WIDTH REQ'D (INCHES), TOTAL WIDTH PROVIDED. Rows include EXIT DOORS & OTHER COMPONENTS, EXIT STAIRS.

SECTION 1006 NUMBER OF EXITS AND EXIT ACCESS DOORWAYS. Table with 4 columns: OCCUPANCY, MAX OCCUPANT LOAD OF SPACE WITH 1 EXIT, WITH AUTOMATIC SPRINKLER SYSTEM (FEET), TABLE 1017.2 EXIT ACCESS TRAVEL DISTANCE. Rows include A+B, S.

CHAPTER 16 - STRUCTURAL DESIGN

1604.5 RISK CATEGORY. EACH BUILDING AND STRUCTURE SHALL BE ASSIGNED A RISK CATEGORY IN ACCORDANCE WITH TABLE 1604.5. WHERE A REFERENCED STANDARD SPECIFIES AN OCCUPANCY CATEGORY, THE RISK CATEGORY SHALL NOT BE TAKEN AS LOWER THAN THE OCCUPANCY CATEGORY SPECIFIED THEREIN.

TABLE 1604.5 RISK CATEGORY OF BUILDINGS AND OTHER STRUCTURES. Table with 2 columns: RISK CATEGORY, NATURE OF OCCUPANCY. Row includes IV: BUILDINGS AND OTHER STRUCTURES DESIGNATED AS ESSENTIAL FACILITIES.

CHAPTER 29 - PLUMBING SYSTEMS

TABLE 2902.1 - MINIMUM NUMBER OF REQUIRED PLUMBING FIXTURES. Table with 7 columns: CLASSIFICATION, OCCUPANTS, WC, LAVATORIES, SHOWERS, DRINKING FOUNTAIN, SERVICE SINK. Rows include A-3 ASSEMBLY, B BUSINESS, S-1 STORAGE, TOTAL REQ'D, TOTAL PROVIDED.

ENERGY CONSERVATION CODE ROOMS.

TABLE 402.1.3 - OPAQUE THERMAL ENVELOPE INSULATION MINIMUM REQUIREMENTS, R-VALUE. Table with 2 columns: INSULATION ENTIRELY ABOVE ROOF DECK, R-30ci.

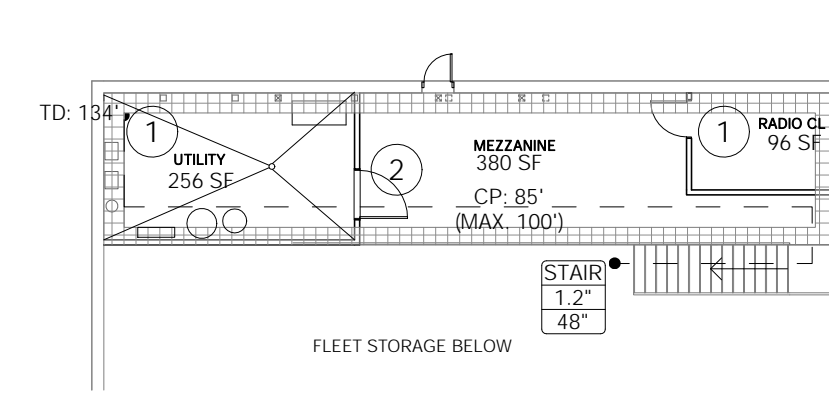
TABLE 402.1.4 - OPAQUE THERMAL ENVELOPE INSULATION MAXIMUM REQUIREMENTS, U-FACTOR. Table with 2 columns: SWINGING OPAQUE DOOR, 0.37.

TABLE 402.4 - BUILDING ENVELOPE FENESTRATION MAXIMUM U-FACTOR + SHGC REQUIREMENTS. Table with 2 columns: U-FACTOR MAX., SHGC MAX.

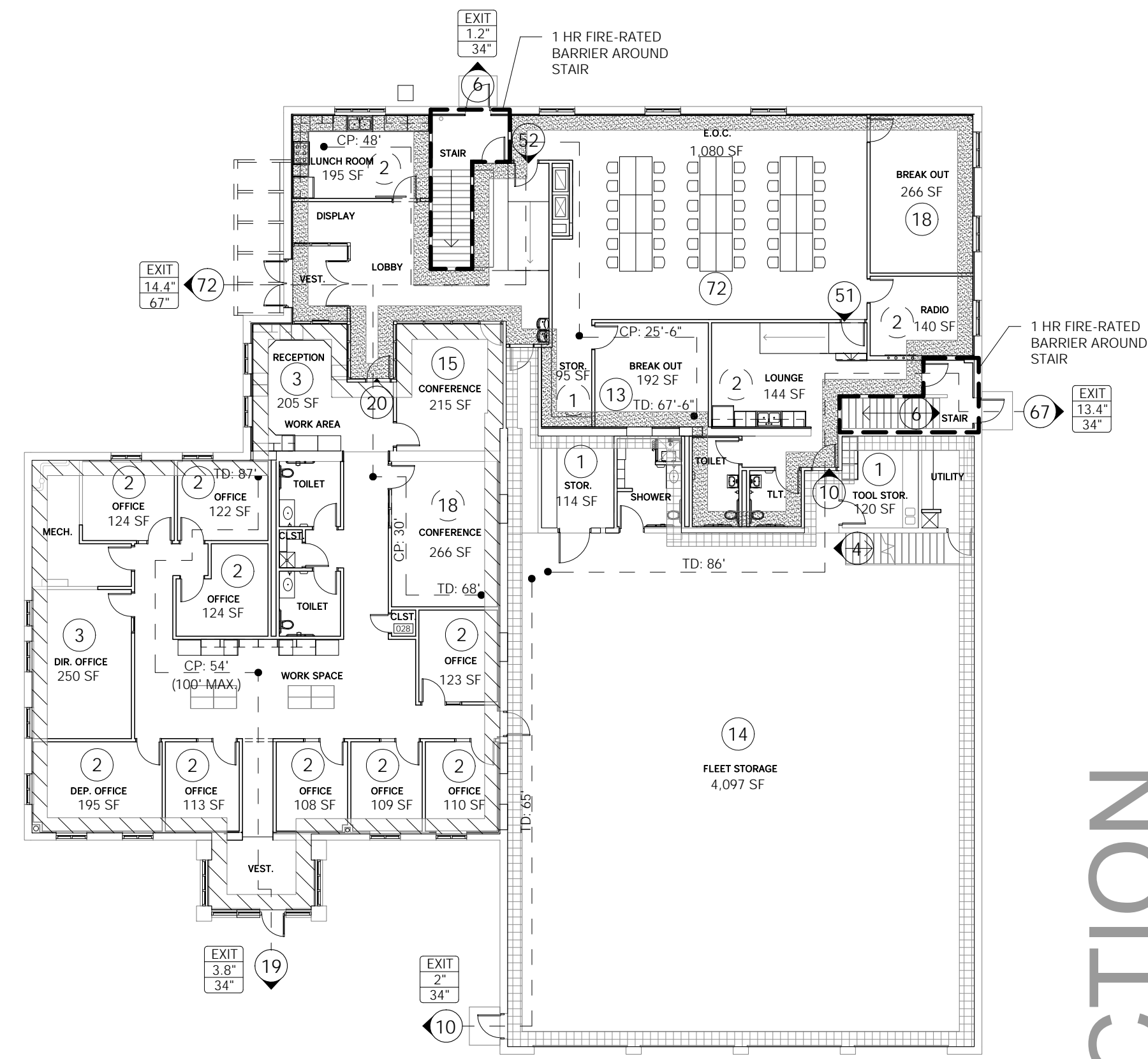
Table with 3 columns: FIXED FENESTRATION, ENTRANCE DOORS, SKYLIGHTS, WINDOW DAYLIGHTING AREA, VERTICAL FENESTRATION, SKYLIGHTS. Rows include U-FACTOR MAX., SHGC MAX., LOCATION, ALLOWED, ACTUAL.

LIFE SAFETY PLAN KEY

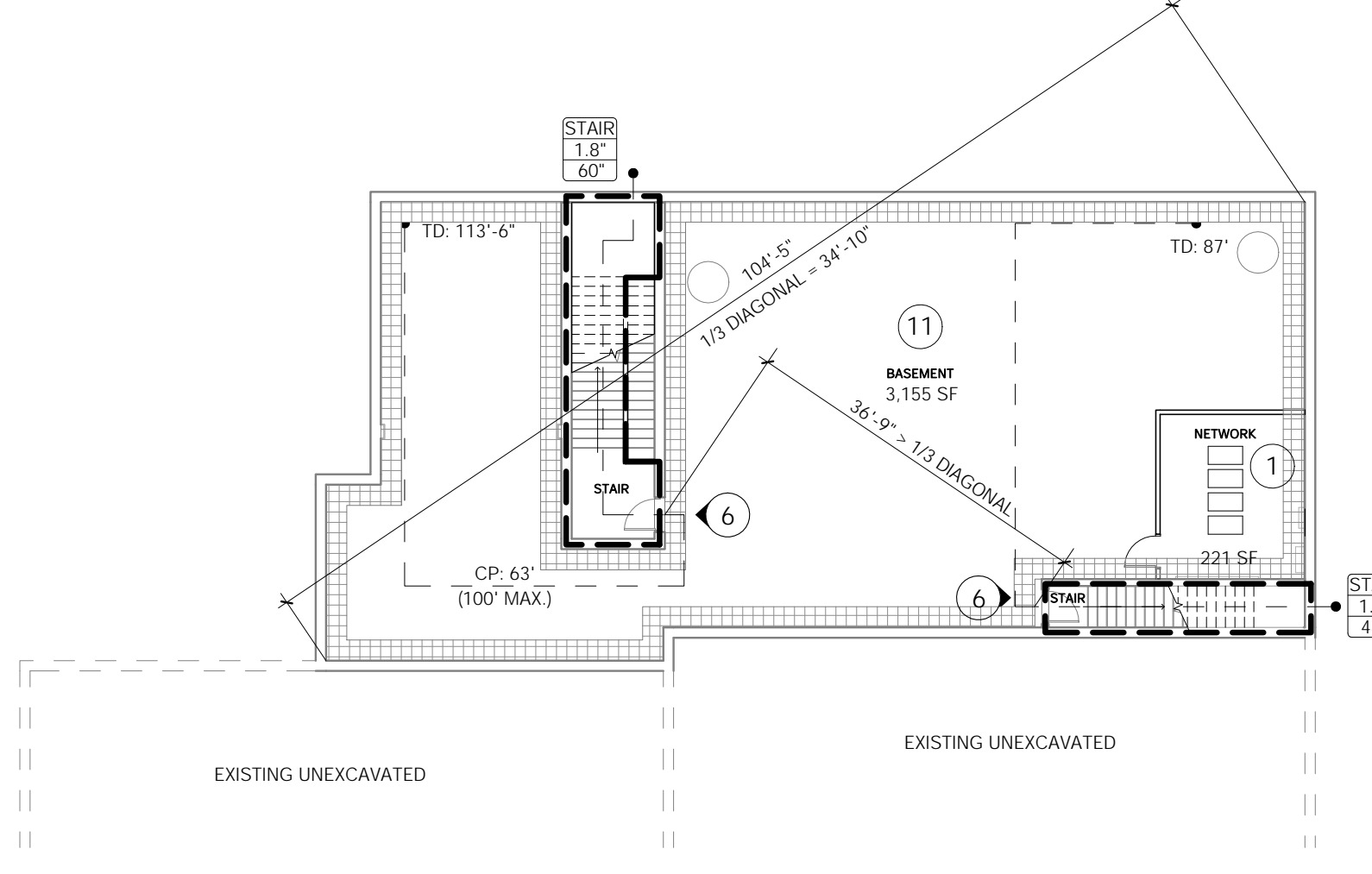
- OCCUPANT LOAD THROUGH A GIVEN EXIT, OCCUPANT LOAD IN A GIVEN ROOM OR AREA, OCCUPANT LOAD IN A GIVEN ROOM ACCOUNTED FOR IN OTHER SPACES. Legend for EXIT (0.0', 0.0'), COMPONENT, REQUIRED WIDTH, PROVIDED WIDTH, A-3 - ASSEMBLY OCCUPANCY, B - BUSINESS OCCUPANCY, S-1 - STORAGE OCCUPANCY, 1-HR. RATED FIRE BARRIER, COMMON PATH OF EGRESS, EXIT TRAVEL DISTANCE.



MEZZANINE CODE PLAN SCALE 1/16" = 1'-0"



FIRST FLOOR CODE PLAN SCALE 1/16" = 1'-0"



BASEMENT CODE PLAN SCALE 1/16" = 1'-0"

NOT FOR CONSTRUCTION

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DANE COUNTY EMERGENCY MANAGEMENT REMODEL 5415 KING JAMES WAY FITCHBURG, WISCONSIN

CLIENT APPROVAL: APPROVED, APPROVED AS NOTED, APPROVED BY / DATE:

ISSUE RECORD table with columns: DD SET, CD CHECK SET, 98% CD REVIEW, HVAC REDESIGN, ISSUE FOR BID, and dates: 08/04/20, 11/20/20, 02/11/21, 04/30/21, 06/08/21.

PROJECT ARCHITECT: RBS, DRAWN BY: LMB, DATE: 6/3/2021 12:51:19 PM, PROJECT NUMBER: 2020-001

CODE ANALYSIS G 1.2



1 SITE DEMOLITION PLAN
SCALE 1" = 20'

SITE DEMOLITION NOTES:

- A. CONTRACTOR SHALL PERFORM ALL DEMOLITION WORK IN ACCORDANCE WITH ALL APPLICABLE FEDERAL, STATE, AND LOCAL REQUIREMENTS.
- B. THE CONTRACTOR SHALL OBTAIN ALL NECESSARY DEMOLITION PERMITS AND COORDINATE ALL DEMOLITION WITH THE MUNICIPALITY AND OWNERS REPRESENTATIVE TO ENSURE PROTECTION AND MAINTENANCE OF SANITARY AND WATER UTILITIES AS NECESSARY AND TO PROVIDE STORM WATER CONVEYANCE UNTIL NEW FACILITIES ARE CONSTRUCTED, TESTED, AND PLACED IN OPERATION.
- C. CONTRACTOR SHALL DEVELOP AND IMPLEMENT A DAILY PROGRAM OF DUST CONTROL PROCEDURES PRIOR TO DEMOLITION OF ANY STRUCTURES, MODIFICATION OF DUST CONTROL PROCEDURES SHALL BE PERFORMED BY THE CONTRACTOR TO THE SATISFACTION OF THE MUNICIPALITY AND COMPLY WITH THE NPDES II REQUIREMENTS OF THE ILLINOIS ENVIRONMENTAL PROTECTION AGENCY AND THE INDIVIDUAL STORM WATER POLLUTION PREVENTION PLAN FOR THIS PROJECT.
- D. ALL EXISTING TREES, BRUSH AND MISCELLANEOUS VEGETATION TO BE REMOVED OR DEMOLISHED SHALL BE REMOVED FROM THE SITE AND LEGALLY DISPOSED OF BY THE CONTRACTOR.
- E. VOIDS LEFT BY ANY ITEM REMOVED UNDER ANY PROPOSED BUILDING, PAVEMENT, OR WALK OR WITHIN 24" THEREOF SHALL BE BACKFILLED WITH ENGINEERED FILL ACCORDING TO THE GEOTECHNICAL REPORT.
- F. ALL EXISTING BUILDINGS, FOUNDATIONS, CONCRETE OR ASPHALT PAVEMENT OR WALKS, CURB AND GUTTER AND MISCELLANEOUS STRUCTURES (INCLUDING, BUT NOT LIMITED TO FENCES, POLES, YARD LIGHTS, ELECTRICAL PANELS, AND MISCELLANEOUS DEBRIS INDICATED TO BE DEMOLISHED SHALL BE REMOVED OR DEMOLISHED AND REMOVED FROM THE SITE AND LEGALLY DISPOSED BY THE CONTRACTOR.
- G. LOCATION OF EXISTING GAS SERVICES ARE UNKNOWN. CONTACT GAS COMPANY PRIOR TO DEMOLITION.
- H. ALL EXISTING TREES SHALL REMAIN UNLESS OTHERWISE NOTED. PROTECT DURING CONSTRUCTION.
- I. ALL EXISTING UTILITIES SHALL REMAIN UNLESS OTHERWISE NOTED.
- J. CONTRACTOR SHALL HIRE A PRIVATE UTILITY LOCATOR TO LOCATE UTILITIES PRIOR TO CONSTRUCTION AND SHALL CONTACT THE SITE ENGINEER IF A CONFLICT EXISTS.
- K. CONTRACTOR SHALL PROVIDE REMOVAL AND REPLACEMENT AND SHORING AS NECESSARY TO MEET OSHA AND LOCAL CODE, AS WELL AS MANUFACTURER'S REQUIREMENTS.
- L. ALL FOUNDATIONS FOR ALL FENCES, SIGNS, ETC. NOTED FOR REMOVAL SHALL BE REMOVED AND LEGALLY DISPOSED OF OFFSITE.
- M. PROOF-ROLLING SHALL BE PERFORMED FOR ALL SUBGRADE PRIOR TO CONSTRUCTION OF NEW PAVEMENT. ALL SUBGRADE PROOF-ROLLING SHALL BE WITNESSED AND APPROVED BY A MATERIALS TESTING AGENCY TO BE HIRED BY THE OWNER. CONTRACTOR TO COORDINATE ALL PROOF-ROLLING WITH THE MATERIALS TESTING AGENCY SO THAT THEY MAY WITNESS THE PROOF ROLL. PROOF ROLL SHALL BE PROVIDED FOR ALL PAVEMENT AREAS SPECIFIED FOR FULL DEPTH REMOVAL AND REPLACEMENT.
- N. EXISTING CONDITIONS AND TOPOGRAPHY SHOWN REPRESENTS SITE CONDITIONS WITHIN THE BOUNDARY AND TOPOGRAPHIC SURVEY LAST DATED 2-3-21, PREPARED BY MT GROUP. CONTRACTOR SHALL FIELD VERIFY EXISTING ELEVATIONS AND CONDITIONS (INCLUDING BUT NOT LIMITED TO VERIFICATION OF CONTROL AND ALL UTILITIES WHETHER DEPICTED OR NOT) PRIOR TO CONSTRUCTION AND NOTIFY ENGINEER OF ANY DISCREPANCIES.
- O. SEE SHEET SUR-1 "BOUNDARY AND TOPOGRAPHIC SURVEY" FOR ALL EXISTING LOCATED UTILITY DATA.
- P. CLEAR SITE AS NECESSARY TO CONSTRUCT PROPOSED IMPROVEMENTS.
- Q. ALL ITEMS MARKED "EXISTING" OR "EXISTING TO REMAIN" TO BE PROTECTED FROM DAMAGE FOR THE DURATION OF CONSTRUCTION.
- R. CONTRACTOR TO PROVIDE SOIL TESTING SERVICES FOR COMPLETION OF THE WISCONSIN DEPARTMENT OF NATURAL RESOURCES FORMS AS PART OF THEIR CONTRACT.
- S. PREPARE SUBGRADE AS SPECIFIED WITHIN THE GEOTECHNICAL EXPLORATION REPORT DATED AUGUST 17, 2020 PREPARED BY GEOTECHNICAL CONSULTANTS, INC. (CGC).
- T. ALL TOPSOIL BENEATH PROPOSED STRUCTURES AND PAVEMENT SHALL BE REMOVED. REFER TO THE GEOTECHNICAL EXPLORATION REPORT DATED AUGUST 17, 2020 PREPARED BY GEOTECHNICAL CONSULTANTS, INC. (CGC) FOR EXISTING TOPSOIL DEPTHS.

HATCH LEGEND

- EXISTING CONCRETE PAVEMENT TO BE REMOVED FULL DEPTH
- EXISTING ASPHALT PAVEMENT TO BE REMOVED FULL DEPTH

DEMOLITION LEGEND

- EXISTING STORM SEWER
- EXISTING SANITARY SEWER
- EXISTING WATER MAIN
- EXISTING OVERHEAD LINES
- EXISTING GAS LINE
- EXISTING UNDERGROUND ELECTRIC LINE
- EXISTING UNDERGROUND TELCO LINE
- EXISTING UNDERGROUND COMMUNICATION LINE
- EXISTING CLOSED MANHOLE
- EXISTING OPEN GRATE MANHOLE
- EXISTING BEEHIVE GRATE MANHOLE
- EXISTING GAS INLET
- EXISTING FIRE HYDRANT
- EXISTING B-BOX
- EXISTING AREA LIGHT
- EXISTING TELCO PEDESTAL
- EXISTING ELECTRIC METER
- EXISTING GAS METER
- EXISTING SIGN
- EXISTING TREE/SHRUB

PROJECT NOTES:

1. EXISTING BUILDING TO REMAIN.
2. EXISTING ASPHALT PAVEMENT TO REMAIN.
3. EXISTING CONCRETE TO REMAIN.
4. EXISTING HYDRANT AND ASSOCIATED PIPING TO REMAIN.
5. EXISTING CURB AND GUTTER TO REMAIN, EXCEPT AS NOTED.
6. EXISTING UNDERGROUND ELECTRIC TO BE REMOVED. SEE ELECTRICAL PLANS FOR DETAILS.
7. EXISTING UTILITY POLE, GUY WIRE AND ASSOCIATED WIRING TO REMAIN.
8. EXISTING SIGN TO REMAIN.
9. EXISTING CONCRETE PAD WITH RADIO TOWER TO REMAIN. PROTECT DURING CONSTRUCTION.
10. NEW FULL DEPTH SANKUT OF EXISTING CURB/CONCRETE TO PROVIDE CLEAN CONSTRUCTION BREAK.
11. NEW FULL DEPTH SANKUT OF EXISTING ASPHALT PAVEMENT TO PROVIDE CLEAN CONSTRUCTION BREAK.
12. NEW 2" BUTT JOINT.
13. EXISTING ASPHALT PAVEMENT TO BE REMOVED FULL DEPTH TO MEET THE BOTTOM OF THE NEW PAVEMENT CROSS SECTIONS (NEW SUBGRADE ELEVATION). SEE THE SITE GRADING PLAN FOR NEW FINISHED ELEVATIONS AND DETAIL SHEETS FOR NEW PAVEMENT CROSS SECTIONS.
14. EXISTING CONCRETE TO BE REMOVED FULL DEPTH TO MEET THE BOTTOM OF THE NEW PAVEMENT CROSS SECTIONS (NEW SUBGRADE ELEVATION). SEE THE SITE GRADING PLAN FOR NEW FINISHED ELEVATIONS AND DETAIL SHEETS FOR NEW PAVEMENT CROSS SECTIONS.
15. EXISTING DOWNSPOUT TO BE REMOVED. SEE PLUMBING AND ARCHITECTURAL PLANS FOR DETAILS.
16. EXISTING GAS METER TO REMAIN.
17. EXISTING TREE TO BE REMOVED.
18. EXISTING FLAG POLE AND ASSOCIATED FOUNDATION TO BE REMOVED.
19. EXISTING SIGN TO BE REMOVED.
20. EXISTING AREA LIGHT TO BE REMOVED. SEE ELECTRICAL PLANS FOR DETAILS.
21. EXISTING BLOCK WALL TO BE REMOVED.
22. EXISTING MONUMENT SIGN TO BE REMOVED.
23. EXISTING WATER MAIN / WATER SERVICE TO REMAIN.
24. EXISTING CURB AND GUTTER TO BE REMOVED.
25. EXISTING DEPRESSED CURB TO BE REMOVED.
26. EXISTING STORM STRUCTURE AND ASSOCIATED PIPING TO REMAIN.
27. EXISTING STORM SEWER TO REMAIN. CONNECTION TO REMAIN.
28. EXISTING SANITARY STRUCTURE AND ASSOCIATED PIPING TO REMAIN.
29. EXISTING SANITARY SEWER TO REMAIN.
30. EXISTING GAS LINE TO REMAIN.
31. EXISTING UNDERGROUND TELCO TO REMAIN.
32. EXISTING UNDERGROUND ELECTRIC TO REMAIN.
33. EXISTING BARRIER CURB TO BE REMOVED.
34. EXISTING OVERHEAD LINE TO REMAIN.
35. EXISTING GENERATOR, GAS SERVICE AND CONCRETE PAD TO BE REMOVED.
36. EXISTING ROOF OVERFLOW DRAIN OUTLET TO REMAIN.
37. EXISTING FIRE DEPARTMENT CONNECTION TO REMAIN.
38. EXISTING TRANSFORMER TO REMAIN.
39. EXISTING TELCO PEDESTAL TO REMAIN.
40. EXISTING ELECTRIC METER TO REMAIN.
41. EXISTING TELCO BOX TO REMAIN.
42. EXISTING ELECTRIC BOX TO REMAIN.
43. EXISTING CLEANOUT TO REMAIN. ADJUST TO NEW GRADE.
44. EXISTING VEGETATION AND GRAVEL TO BE REMOVED.
45. EXISTING TELCO MANHOLE TO REMAIN.
46. EXISTING PVC SUMP DISCHARGE PIPE TO BE REMOVED. SEE PLUMBING PLANS FOR DETAILS.
47. EXISTING TELCO BUILDING CONNECTION TO REMAIN.
48. EXISTING ROOF OVERFLOW TO BE REMOVED. SEE ARCHITECTURAL / PLUMBING PLANS FOR DETAILS.
49. EXISTING CLEAN OUT TO REMAIN. SHOWN PER RECORDS. CONTRACTOR TO VERIFY IN FIELD EXACT LOCATION. ADJUST TO NEW GRADE.
50. EXISTING B-BOX TO REMAIN. ADJUST TO NEW GRADE.
51. EXISTING TREE TO REMAIN. TRIM LIMBS AS NECESSARY TO PROVIDE CLEARANCE FOR PEDESTRIANS USING PROPOSED SIDEWALK.
52. PORTION OF EXISTING GAS LINE BETWEEN GENERATOR AND PROPERTY LINE TO BE PROPERLY DISCONNECTED, CAPPED AND REMOVED. CONTRACTOR TO COORDINATE WITH UTILITY PROVIDER FOR ALL REQUIREMENTS PRIOR TO DISCONNECTION AND REMOVAL.

EXISTING UTILITY DATA

1 RIM=997.22' (STORM) 36"x18" CONCRETE STRUCTURE INV=993.85' (18" RCP N/SSE) RIM=997.85' (STORM) 12"x12" CONCRETE STRUCTURE INV=991.80' (48"x76" RCP N) ELLIPTICAL PIPE INV=993.55' (18" RCP S) INV=991.80' (53"x83" RCP W) ELLIPTICAL PIPE	2 RIM=997.10' (STORM) 36"x18" CONCRETE STRUCTURE INV=994.79' (18" RCP NW) INV=994.79' (15" PVC S) RIM=998.34' (SANITARY) 48" CONCRETE STRUCTURE INV=993.34' (12" RCP NE/S) INV=993.66' (6" PVC W)	3 RIM=997.65' (STORM) 36"x18" CONCRETE STRUCTURE INV=992.90' (18" RCP N) RIM=997.26' (STORM) 36"x18" CONCRETE STRUCTURE INV=993.61' (12" RCP NNW)	4 RIM=997.31' (STORM) 36"x18" CONCRETE STRUCTURE INV=992.54' (12" RCP NNW/SSE) RIM=998.05' (STORM) CONCRETE STRUCTURE UNABLE TO DETERMINE SIZE INV=988.55' (53"x83" RCP E) ELLIPTICAL PIPE RIM=997.87' (STORM) 60" CONCRETE STRUCTURE INV=980.45' (42" RCP SSE/NN)	5 RIM=998.51' (STORM) 36"x18" CONCRETE STRUCTURE INV=992.68' (18" RCP WSW) RIM=998.42' (STORM) 72" CONCRETE STRUCTURE INV=990.23' (30" RCP N) INV=990.47' (18" RCP ENE) INV=981.23' (42" RCP SE)	6 RIM=1000.57' (STORM) 48" CONCRETE STRUCTURE INV=995.85' (30" RCP N) INV=993.23' (30" RCP S) RIM=1001.59' (STORM) 48" CONCRETE STRUCTURE INV=997.28' (30" RCP N/S) RIM=1002.81' (SANITARY) 48" CONCRETE STRUCTURE INV=996.35' (6" PVC N/S)	7 RIM=1005.42' (STORM) 60" CONCRETE STRUCTURE INV=999.57' (30" RCP N/S) INV=999.72' (18" RCP E) INV=999.87' (18" RCP W) RIM=998.11' (SANITARY) 48" CONCRETE STRUCTURE INV=994.67' (6" PVC N/E/SW)	8 RIM=995.13' (STORM) 84" CONCRETE STRUCTURE INV=987.18' (12" RCP ENE) INV=979.93' (42" RCP SSE/NNW) RIM=996.01' (STORM) CONCRETE STRUCTURE UNABLE TO DETERMINE SIZE INV=987.46' (66" RCP NE/SW) INV=989.21' (12" RCP ESE CAPPED) RIM=997.33' (SANITARY) 48" CONCRETE STRUCTURE INV=992.28' (15" PVC E) INV=992.28' (12" RCP N) RIM=999.10' (SANITARY) 48" CONCRETE STRUCTURE INV=994.45' (12" RCP NNE/SW) INV=995.72' (4" PVC E)	9 RIM=1010.75' (STORM) 84" CONCRETE STRUCTURE INV=996.20' (48" RCP N) INV=996.20' (48"x76" RCP S) ELLIPTICAL PIPE
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DANE COUNTY EMERGENCY MANAGEMENT REMODEL
5415 KING JAMES WAY
FITCHBURG, WISCONSIN 53719

CLIENT APPROVAL
 APPROVED
 APPROVED AS NOTED
APPROVED BY / DATE:

ISSUE RECORD

DD SET	08/04/20
CD CHECK SET	11/20/20
98% CD REVIEW	02/11/21
HVAC REDESIGN	04/30/21
ISSUE FOR BID	06/08/21

CHECKED BY
JEG
DRAWN BY
BRA
DATE
5/24/2021 5:10:02 PM
PROJECT NUMBER
2020-001

SITE DEMOLITION PLAN
C-1.0

WT Group
Engineering • Design • Consulting
Structural | Mechanical/Electrical/Plumbing
Civil | Land Survey | Telecommunication | Aquatic
Accessibility Consulting | Design & Program Management
Engineering with Precision, Pace & Passion.
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NOT FOR CONSTRUCTION



DANE COUNTY EMERGENCY MANAGEMENT REMODEL
 5415 KING JAMES WAY
 FITCHBURG, WISCONSIN 53719

CLIENT APPROVAL
 APPROVED
 APPROVED AS NOTED
 APPROVED BY / DATE:

ISSUE RECORD

DD SET	08/04/20
CD CHECK SET	11/20/20
98% CD REVIEW	02/11/21
HVAC REDESIGN	04/30/21
ISSUE FOR BID	06/08/21

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 JEG
DRAWN BY
 BRA
DATE
 5/24/2021 3:13:37 PM
PROJECT NUMBER
 2020-001

SITE GEOMETRIC PLAN
C-2.0

HATCH LEGEND

- NEW CONCRETE SIDEWALK**
 5" PORTLAND CEMENT CONCRETE
 4" CRUSHED AGGREGATE BASE COURSE (CABC), DOT DENSE GRADED 3/4" PER SECTION 305 WISDOT SPECIFICATIONS
- NEW CONCRETE PAVEMENT / CONCRETE PAD**
 8" PORTLAND CEMENT CONCRETE
 8" CRUSHED AGGREGATE BASE COURSE (CABC), UPPER 4" IS 1-1/4" DENSE GRADED BASE (DGB), BOTTOM PART OF THE LAYER CAN CONSIST OF 3" DGB PER SECTION 305 WISDOT SPECIFICATIONS
- NEW CONCRETE STOOP / CONCRETE PATIO**
 8" PORTLAND CEMENT CONCRETE
 8" CRUSHED AGGREGATE BASE COURSE (CABC), UPPER 4" IS 1-1/4" DENSE GRADED BASE (DGB), BOTTOM PART OF THE LAYER CAN CONSIST OF 3" DGB PER SECTION 305 WISDOT SPECIFICATIONS
- NEW FULL DEPTH LIGHT DUTY ASPHALT PAVEMENT**
 1-3/4" HMA SURFACE COURSE
 2-1/4" HMA BINDER COURSE
 8" CRUSHED AGGREGATE BASE COURSE (CABC), UPPER 4" IS 1-1/4" DENSE GRADED BASE (DGB), BOTTOM PART OF THE LAYER CAN CONSIST OF 3" DGB PER SECTION 305 WISDOT SPECIFICATIONS
- NEW FULL DEPTH MEDIUM DUTY ASPHALT PAVEMENT**
 1-3/4" HMA SURFACE COURSE
 2-1/4" HMA BINDER COURSE
 10" CRUSHED AGGREGATE BASE COURSE (CABC), UPPER 4" IS 1-1/4" DENSE GRADED BASE (DGB), BOTTOM PART OF THE LAYER CAN CONSIST OF 3" DGB PER SECTION 305 WISDOT SPECIFICATIONS
- NEW GRAVEL TRENCH DRAIN SYSTEM**

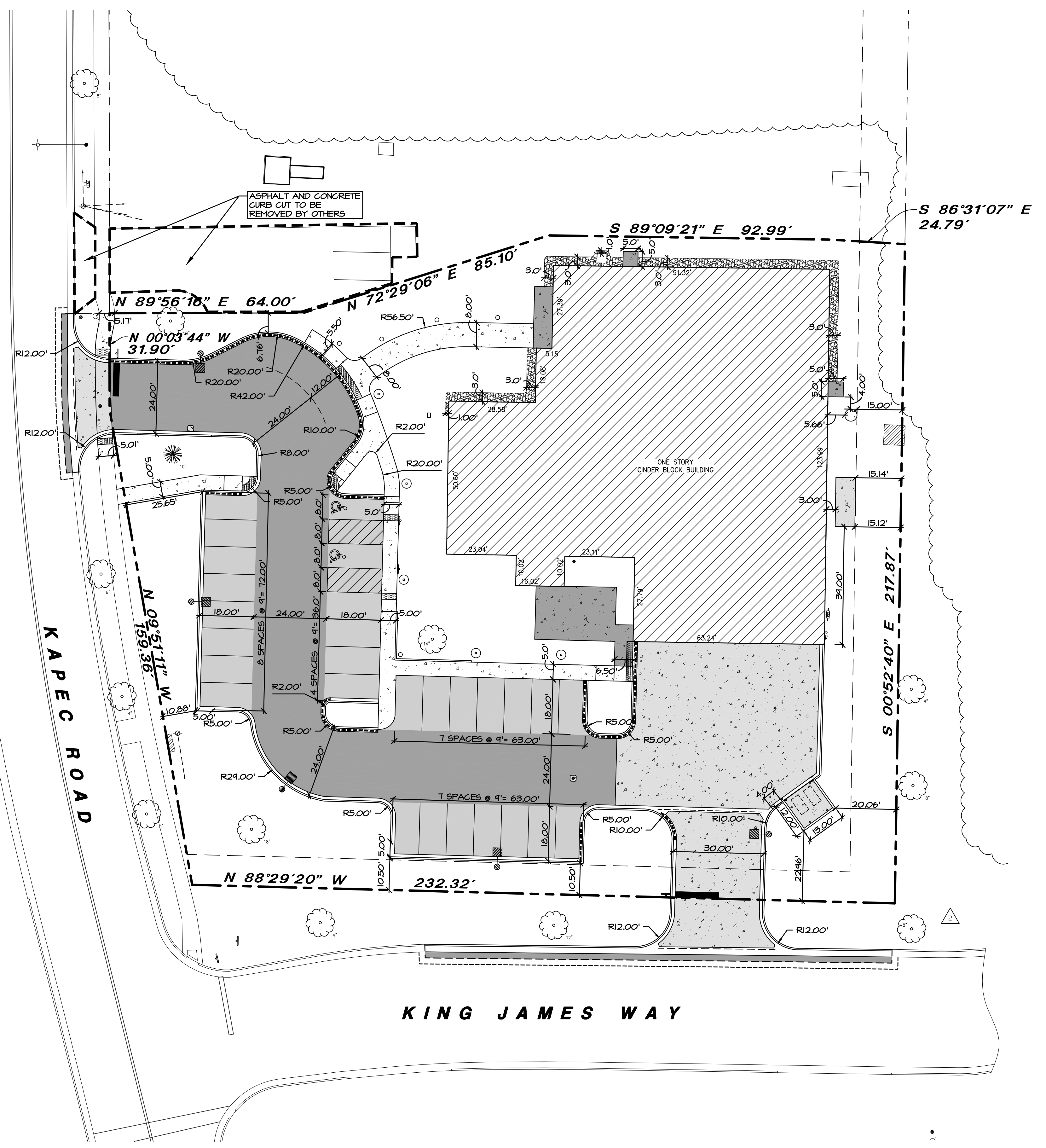
SITE GEOMETRIC NOTES:

- A. EXISTING CONDITIONS AND TOPOGRAPHY SHOWN REPRESENTS SITE CONDITIONS PER THE BOUNDARY AND TOPOGRAPHIC SURVEY LAST DATED 2-3-21, PREPARED BY HNT GROUP. CONTRACTOR SHALL FIELD VERIFY EXISTING ELEVATIONS AND CONDITIONS (INCLUDING BUT NOT LIMITED TO VERIFICATION OF CONTROL AND ALL UTILITIES WHETHER DEPICTED OR NOT) PRIOR TO CONSTRUCTION AND NOTIFY ENGINEER OF ANY DISCREPANCIES.
- B. ALL DIMENSIONS SHOWN ARE MEASURED FROM EDGE OF PAVEMENT TO EDGE OF PAVEMENT OR FACE OF CURB UNLESS OTHERWISE NOTED.
- C. CONTRACTOR SHALL NOTIFY THE ENGINEER OF ANY DISCREPANCIES WITH THE ARCHITECTURAL PLANS.
- D. SEE THE ARCHITECTURAL PLANS FOR THE DESIGN OF ALL BUILDING ENTRIES.
- E. CONSTRUCTION SURVEY AND STAKEOUT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR.
- F. CONTRACTOR SHALL HIRE A PRIVATE UTILITY LOCATOR TO LOCATE UTILITIES PRIOR TO CONSTRUCTION AND SHALL CONTACT THE SITE ENGINEER IF A CONFLICT EXISTS.
- G. CONTRACTOR SHALL CONTACT DIGGERS HOTLINE, WISCONSIN ONE-CALL CENTER (811 OR 1-800-242-8811) AND PRIVATE LOCATING SERVICE TO LOCATE ALL UNDERGROUND UTILITY LINES PRIOR TO STARTING ANY DEMOLITION AND/OR EXCAVATION. EXACT LOCATIONS OF ANY EXISTING ELECTRIC, GAS, TELEPHONE, ETC. LINES ARE UNKNOWN.
- H. ASPHALT PAVEMENT MARKINGS SHALL BE MADE WITH HIGH QUALITY PAINT CONFORMING TO THE WISCONSIN DOT STANDARD SPECIFICATIONS.
- I. ALL PAINTED CURBS ON SITE TO BE REPAINTED FOLLOWING RESURFACING OF THE PARKING LOT. MATCH EXISTING COLOR, REPAINT WITH HIGH QUALITY PAINT CONFORMING TO DOT.

PARKING STALL COUNTS

	STANDARD	ADA	TOTAL
PROPOSED	26	2	28

IMPERVIOUS SURFACE RATIO (ISR) = 62.23%



1 SITE GEOMETRIC PLAN
 SCALE 1" = 20'

WT JOB NUMBER - 2002139C

WT Group
 Engineering • Design • Consulting
 Structural | Mechanical/Electrical/Plumbing
 Civil | Land Survey | Telecommunication | Aquatic
 Accessibility Consulting | Design & Program Management
 Engineering with Precision, Pace & Passion.
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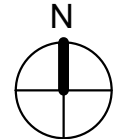
ASPHALT AND CONCRETE CURB CUT TO BE REMOVED BY OTHERS

ONE STORY CINDER BLOCK BUILDING

K A P E C R O A D

K I N G J A M E S W A Y

1 SITE DEVELOPMENT PLAN
SCALE 1" = 20'



HATCH LEGEND

- NEW CONCRETE SIDEWALK
5" PORTLAND CEMENT CONCRETE
- 4" CRUSHED AGGREGATE BASE COURSE (CABC), DOT DENSE GRADED 3/4" PER SECTION 305 WISDOT SPECIFICATIONS
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2" HMA BINDER COURSE
- 8" CRUSHED AGGREGATE BASE COURSE (CABC), UPPER 4" IS 1-1/4" DENSE GRADED BASE (DGB), BOTTOM PART OF THE LAYER CAN CONSIST OF 3" DGB PER SECTION 305 WISDOT SPECIFICATIONS
- NEW FULL DEPTH MEDIUM DUTY ASPHALT PAVEMENT
1-3/4" HMA SURFACE COURSE
2-1/4" HMA BINDER COURSE
- 10" CRUSHED AGGREGATE BASE COURSE (CABC), UPPER 4" IS 1-1/4" DENSE GRADED BASE (DGB), BOTTOM PART OF THE LAYER CAN CONSIST OF 3" DGB PER SECTION 305 WISDOT SPECIFICATIONS
- NEW GRAVEL TRENCH DRAIN SYSTEM

SITE DEVELOPMENT NOTES:

- A. EXISTING CONDITIONS AND TOPOGRAPHY SHOWN REPRESENTS SITE CONDITIONS PER THE BOUNDARY AND TOPOGRAPHIC SURVEY LAST DATED 2-3-21 PREPARED BY HNT GROUP. CONTRACTOR SHALL FIELD VERIFY EXISTING ELEVATIONS AND CONDITIONS (INCLUDING BUT NOT LIMITED TO VERIFICATION OF CONTROL AND ALL UTILITIES WHETHER DEPICTED OR NOT) PRIOR TO CONSTRUCTION AND NOTIFY ENGINEER OF ANY DISCREPANCIES.
- B. CONTRACTOR SHALL NOTIFY THE ENGINEER OF ANY DISCREPANCIES WITH THE ARCHITECTURAL PLANS.
- C. SEE THE ARCHITECTURAL PLANS FOR THE DESIGN OF ALL BUILDING ENTRIES.
- D. CONTRACTOR SHALL COORDINATE ALL LANDSCAPING IMPROVEMENTS WITH LANDSCAPE PLANS.
- E. CONSTRUCTION SURVEY AND STAKEOUT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR.
- F. ALL EXISTING TREES SHOWN ARE TO REMAIN UNLESS OTHERWISE NOTED.
- G. CONTRACTOR SHALL RESTORE ALL DISTURBED AREAS OUTSIDE OF CONSTRUCTION LIMITS TO ORIGINAL CONDITION OR BETTER.
- H. ASPHALT PAVING MARKINGS SHALL BE MADE WITH HIGH QUALITY PAINT CONFORMING TO WISDOT SPECIFICATIONS.
- I. CONTRACTOR SHALL RESTORE ALL DISTURBED GREEN SPACES WITH 6" OF TOPSOIL, SEED, AND EROSION CONTROL BLANKET.
- J. CONTRACTOR SHALL REPAIR AT HIS EXPENSE ANY DAMAGE TO EXISTING ASPHALT, CONCRETE, CURBS, SIDEWALKS, ETC., RESULTING FROM CONSTRUCTION TRAFFIC AND/OR OPERATIONS. REPAIRS SHALL BE MADE TO THE SATISFACTION OF THE OWNER AND/OR ENGINEER.
- K. CONTRACTOR SHALL RE-STRIPE ALL STRIPING DISTURBED WITHIN THE EXISTING ROADWAY TO MATCH EXISTING.
- L. CONTRACTOR SHALL HIRE A PRIVATE UTILITY LOCATOR TO LOCATE UTILITIES PRIOR TO CONSTRUCTION AND SHALL CONTACT THE SITE ENGINEER IF A CONFLICT EXISTS.
- M. ALL ITEMS MARKED "EXISTING" SHALL BE PROTECTED FROM DAMAGE FOR THE DURATION OF CONSTRUCTION.
- N. ALL EXISTING SUBGRADE TO BE SCARIFIED (DISKED) TO A DEPTH OF 12" AND RE-COMPACTED, AND THEN TESTED USING A DYNAMIC CONE PENETROMETER. SEE GEOTECHNICAL REPORT FOR ADDITIONAL REQUIREMENTS.

PROJECT NOTES:

1. EXISTING BUILDING TO REMAIN.
2. EXISTING ASPHALT PAVEMENT TO REMAIN.
3. EXISTING CONCRETE TO REMAIN.
4. EXISTING HYDRANT AND ASSOCIATED PIPING TO REMAIN.
5. EXISTING CURB AND GUTTER TO REMAIN.
6. NEW AREA LIGHT. SEE ELECTRICAL PLAN FOR MORE DETAILS.
7. EXISTING UTILITY POLE, GUY WIRE AND ASSOCIATED WIRING TO REMAIN.
8. EXISTING SIGN TO REMAIN.
9. EXISTING CONCRETE PAD AND RADIO TOWER TO REMAIN. PROTECT DURING CONSTRUCTION.
10. NEW FULL DEPTH SAWCUT OF EXISTING CURB/CONCRETE TO PROVIDE CLEAN CONSTRUCTION BREAK.
11. NEW FULL DEPTH SAWCUT OF EXISTING ASPHALT PAVEMENT TO PROVIDE CLEAN CONSTRUCTION BREAK.
12. NEW 2" BUTT JOINT.
13. NEW LIGHT DUTY ASPHALT PAVEMENT.
14. NEW CONCRETE SIDEWALK.
15. NEW BOLLARD LIGHT. SEE ELECTRICAL PLAN FOR MORE DETAILS.
16. NEW MEDIUM DUTY ASPHALT PAVEMENT.
17. NEW 8" CONCRETE PAD.
18. NEW CONCRETE TOWER FOUNDATION. SEE TELECOMMUNICATION PLANS FOR DETAILS.
19. NEW CONCRETE PAVEMENT.
20. NEW 30" CONCRETE CURB AND GUTTER.
21. NEW 18" CONCRETE CURB AND GUTTER.
22. NEW DETECTABLE WARNING PLATE.
23. NEW "STOP" SIGN.
24. NEW ACCESSIBLE PARKING SPACE STRIPING AND SYMBOL.
25. NEW ACCESSIBLE PARKING SIGN.
26. NEW 4" WIDE, YELLOW PAINTED PAVEMENT STRIPING.
27. NEW TRASH ENCLOSURE. SEE ARCHITECTURAL PLANS FOR DETAILS.
28. NEW BOLLARD.
29. NEW 36" DEPRESSED CURB.
30. NEW 24" WIDE, WHITE PAINTED STOP BAR.
31. NEW TOP POST AREA LIGHT. SEE ELECTRICAL PLAN FOR MORE DETAILS.
32. NEW WATERPROOFING FOUNDATION / STONE STRIP TRENCH SYSTEM. SEE ARCHITECTURAL, PLUMBING AND LANDSCAPING PLANS FOR MORE DETAILS.
33. NEW 8" CONCRETE STOOP, DOWELLED TO THE BUILDING. SEE STRUCTURAL PLANS FOR ALL DETAILS.
34. NEW MONOLITHIC CONCRETE CURB AND SIDEWALK.
35. NEW CONCRETE COLLAR.
36. NEW 18" CONCRETE CURB AND GUTTER WITH REVERSE GUTTER PITCH SECTION.
37. NEW 8" CONCRETE PAVEMENT, DOWELLED TO THE BUILDING. SEE STRUCTURAL PLANS FOR ALL DETAILS.
38. EXISTING FIRE DEPARTMENT CONNECTION TO REMAIN.
39. NEW FLOOD LIGHT. SEE ELECTRICAL PLAN FOR MORE DETAILS.
40. VARIABLE HEIGHT CONCRETE CURB WITH GUTTER.
41. NEW RETAINING CURB.
42. NEW 8" CONCRETE PATIO, DOWELLED TO THE BUILDING. SEE STRUCTURAL PLANS FOR ALL DETAILS.
43. NEW CONCRETE CURB CUT.
44. NEW 24" DEPRESSED CONCRETE CURB AND GUTTER.
45. NEW ADA CONCRETE CURB RAMP.
46. NEW CONCRETE RETAINING CURB AND GUTTER WITH REVERSE GUTTER PITCH SECTION.
47. NEW CONCRETE SIDEWALK TO BE FLUSH WITH ADJACENT ASPHALT.
48. EXISTING TREE TO REMAIN. LIMBS TO BE TRIMMED TO PROVIDE CLEARANCE FOR PEDESTRIANS USING PROPOSED SIDEWALK.

PRAIRIE FORGE GROUP
300 CARDINAL DRIVE
SUITE 180
SAINT CHARLES IL 60175
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630.221.0118 | F
www.prairieforgroup.com

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DANE COUNTY EMERGENCY MANAGEMENT REMODEL
5415 KING JAMES WAY
FITCHBURG, WISCONSIN 53719

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APPROVED BY / DATE:

ISSUE RECORD

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CHECKED BY: JEG
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PROJECT NUMBER: 2020-001

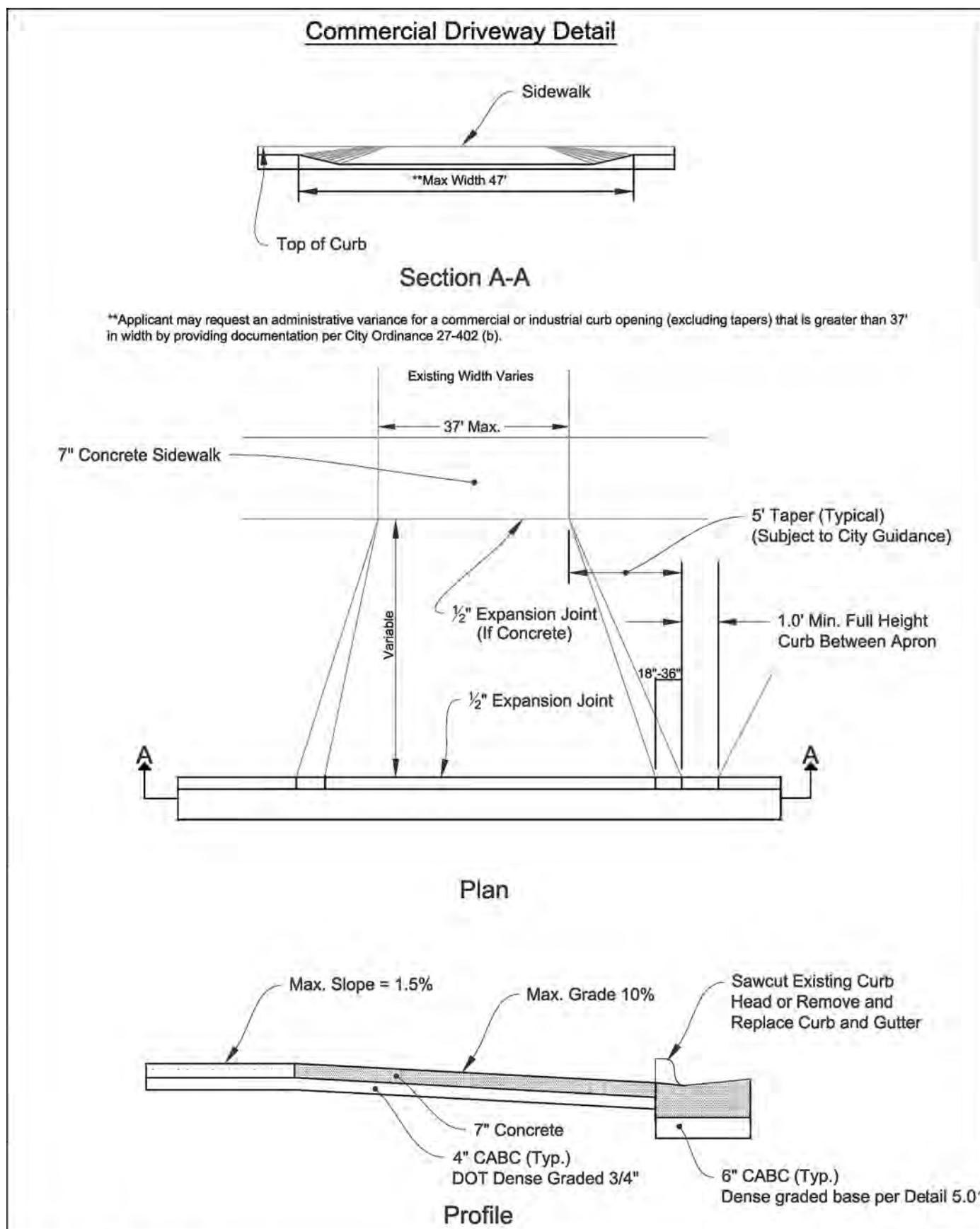
SITE DEVELOPMENT PLAN
C-3.0

WT JOB NUMBER - 2002139C

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Engineering • Design • Consulting
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Accessibility Consulting | Design & Program Management
Engineering with Precision, Pace & Passion.

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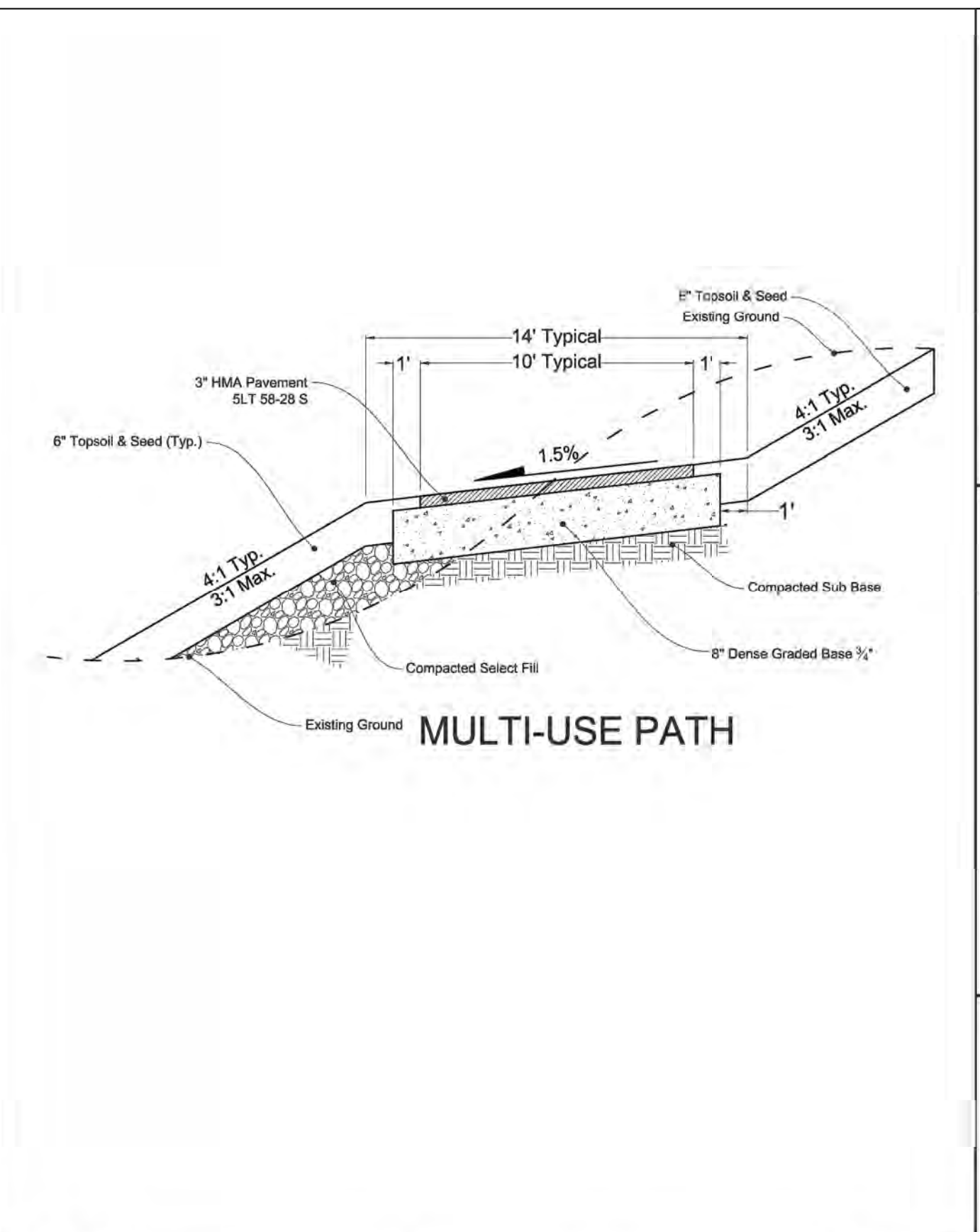
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COMMERCIAL DRIVEWAY STANDARD DETAIL DRAWING

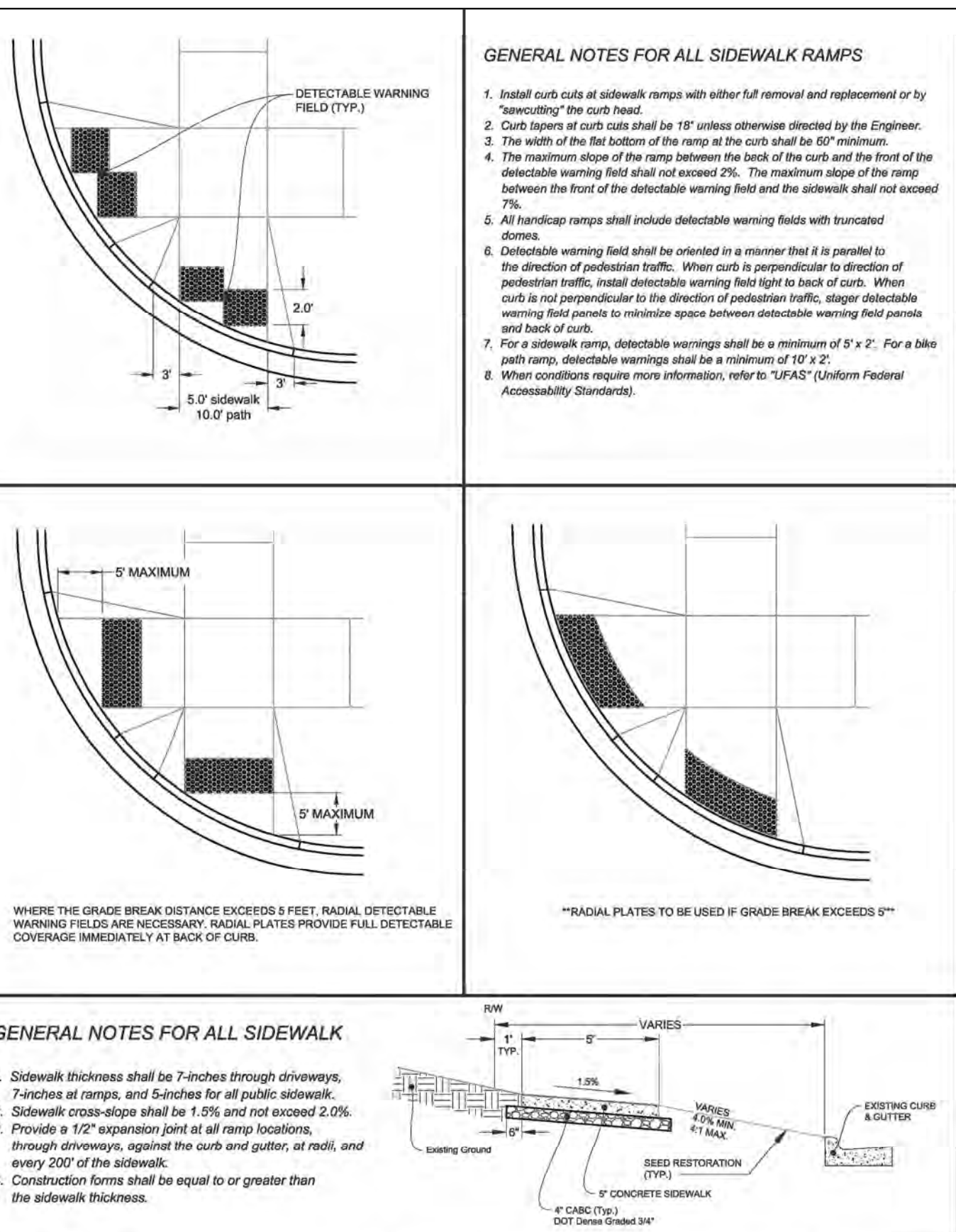
DATE: 2/1/2017
 SHEET NO.: 4.03



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PATHS STANDARD DETAIL DRAWING

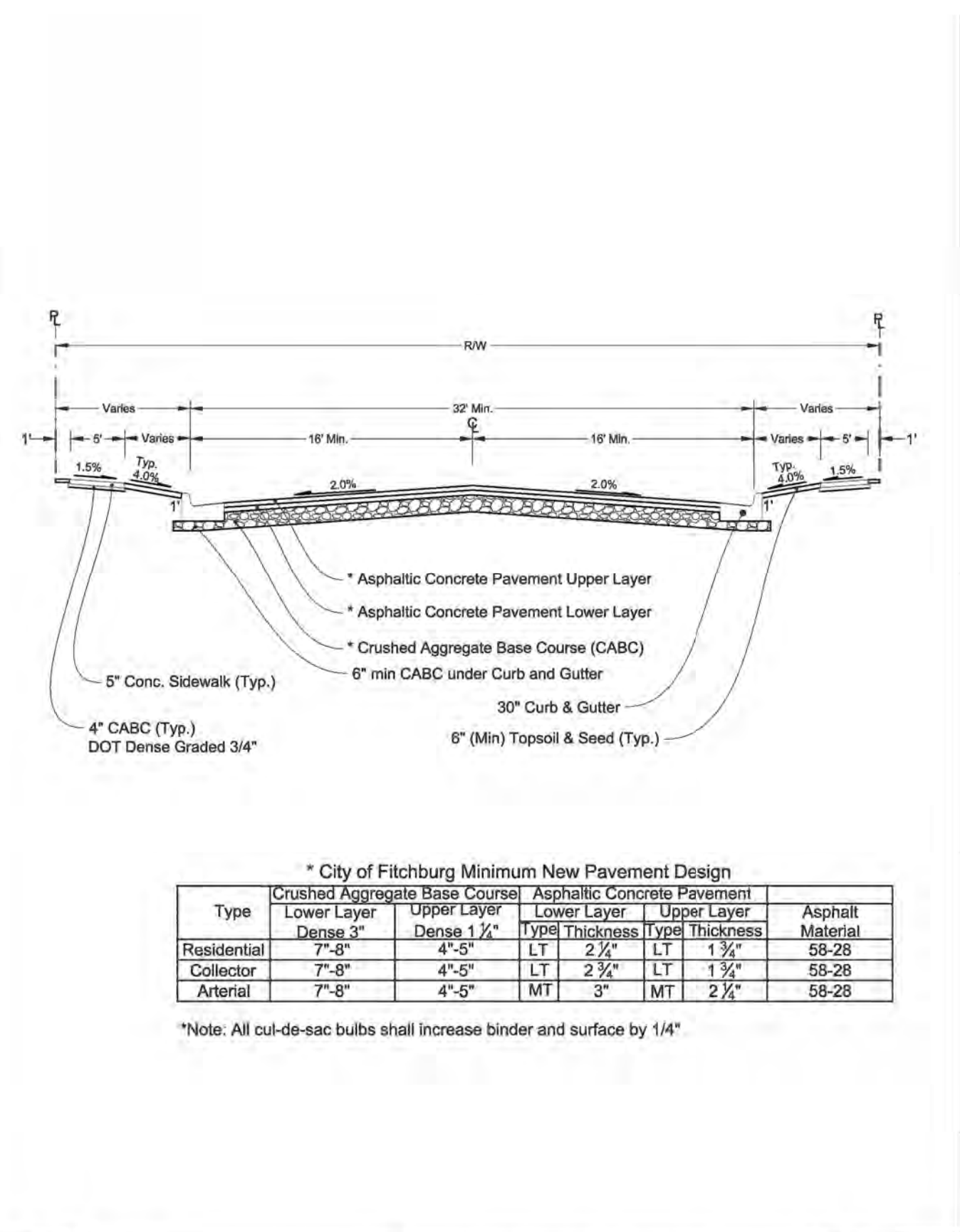
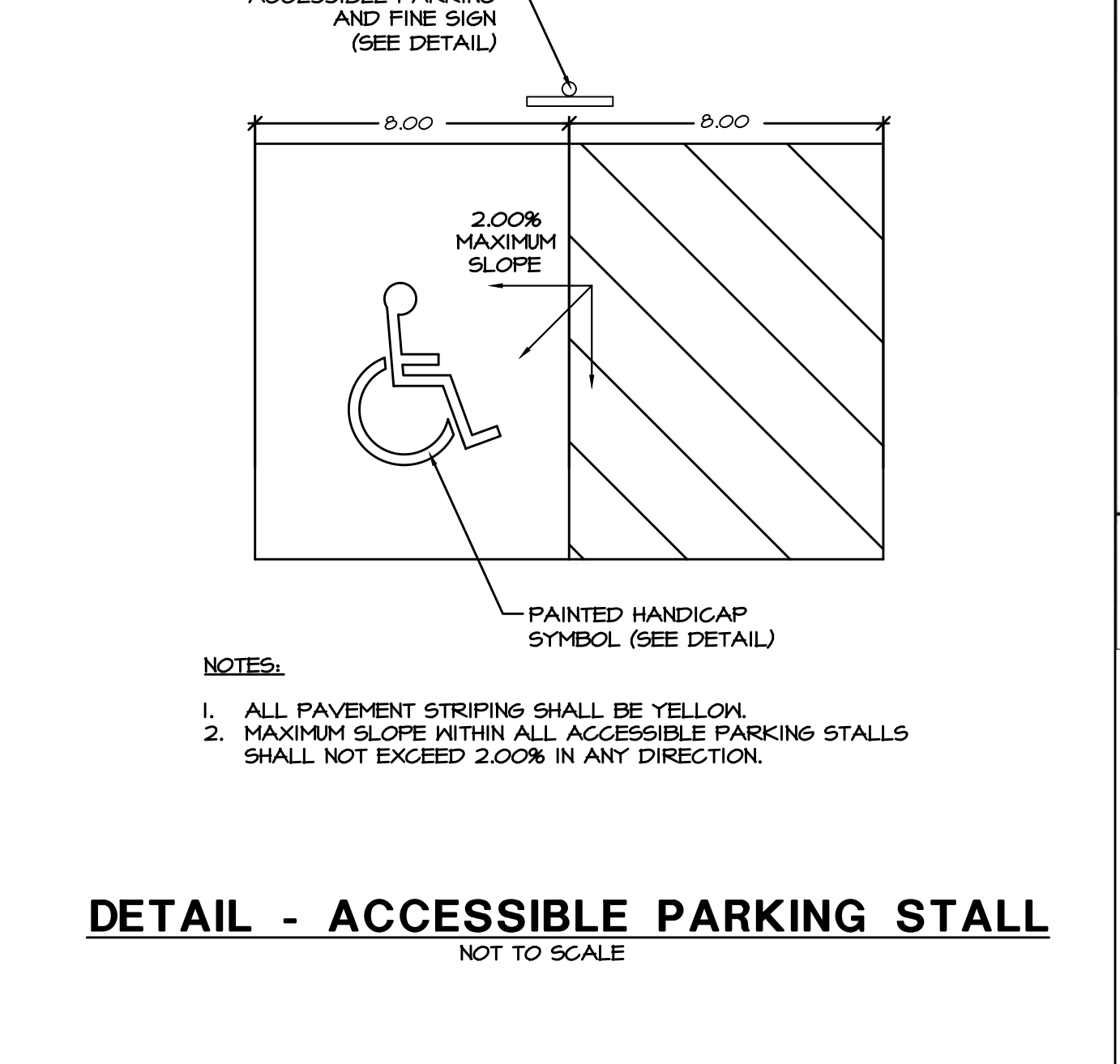
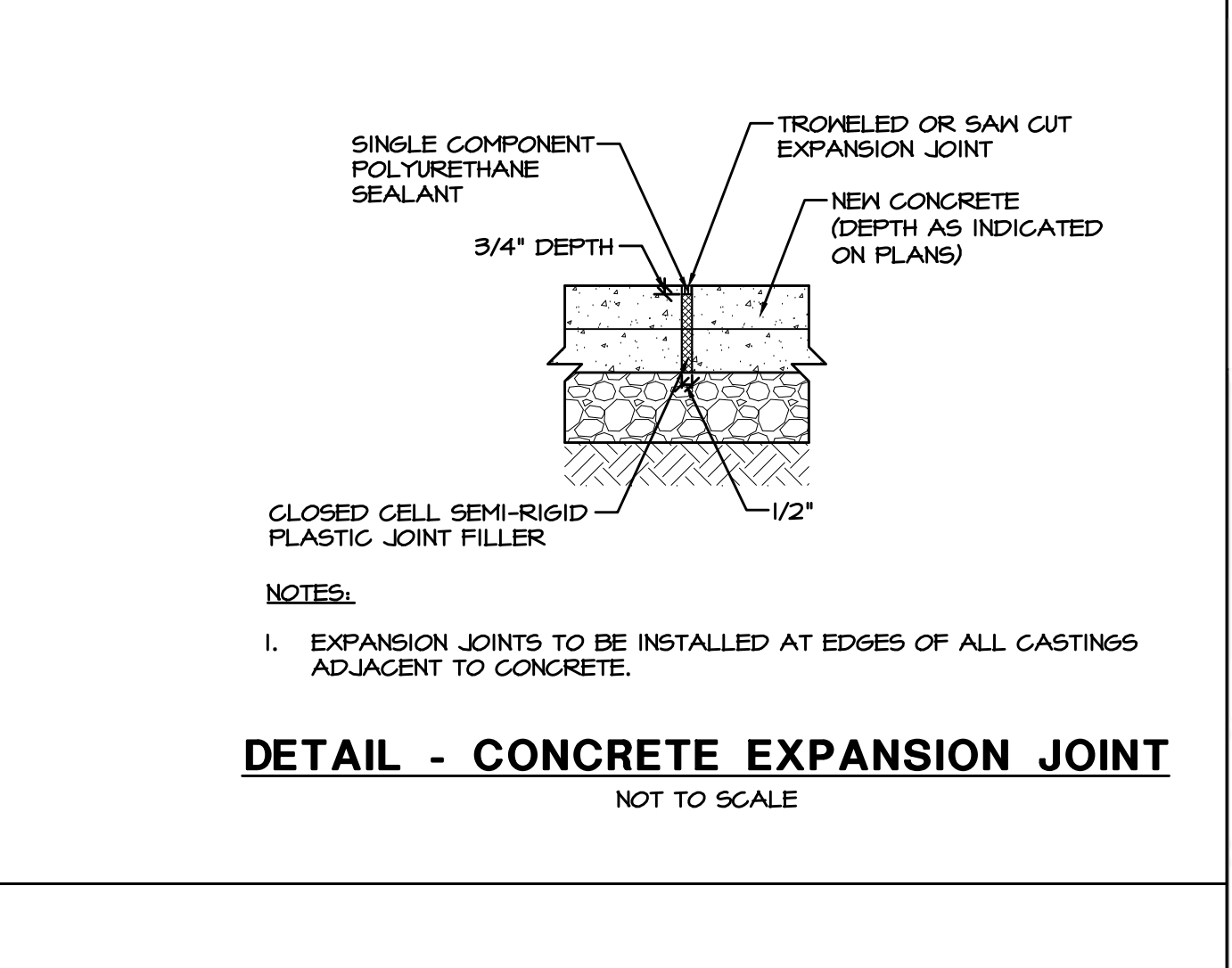
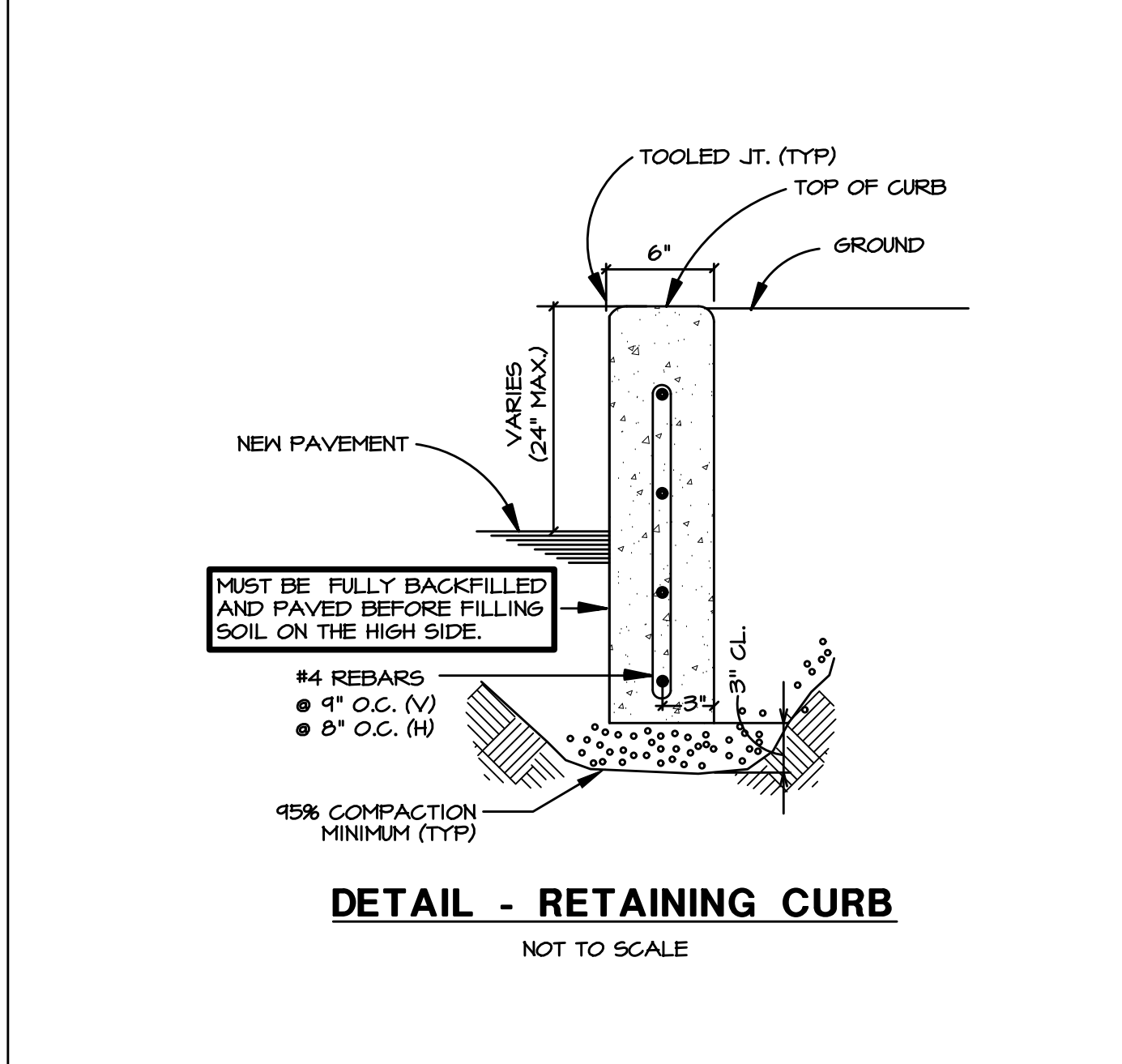
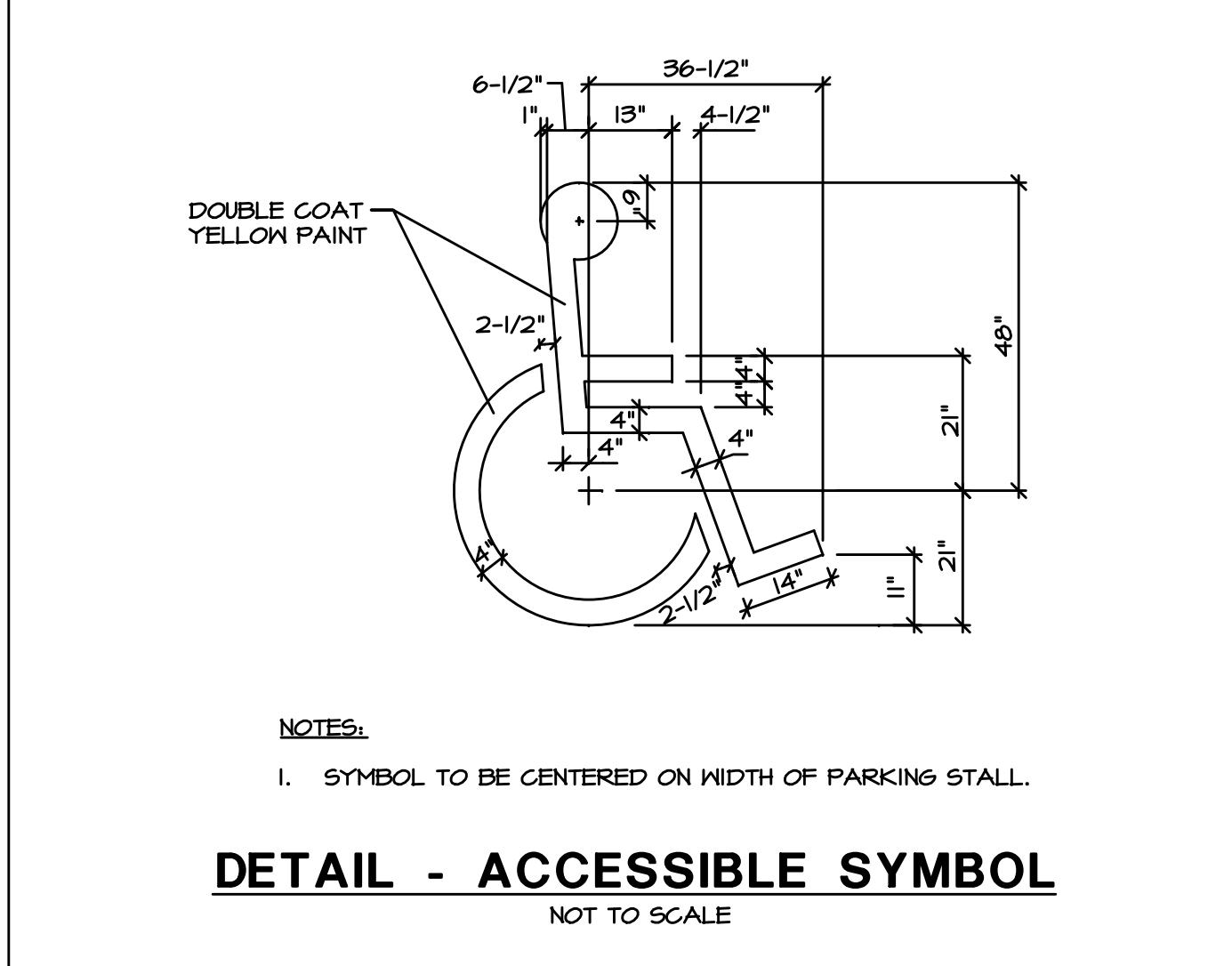
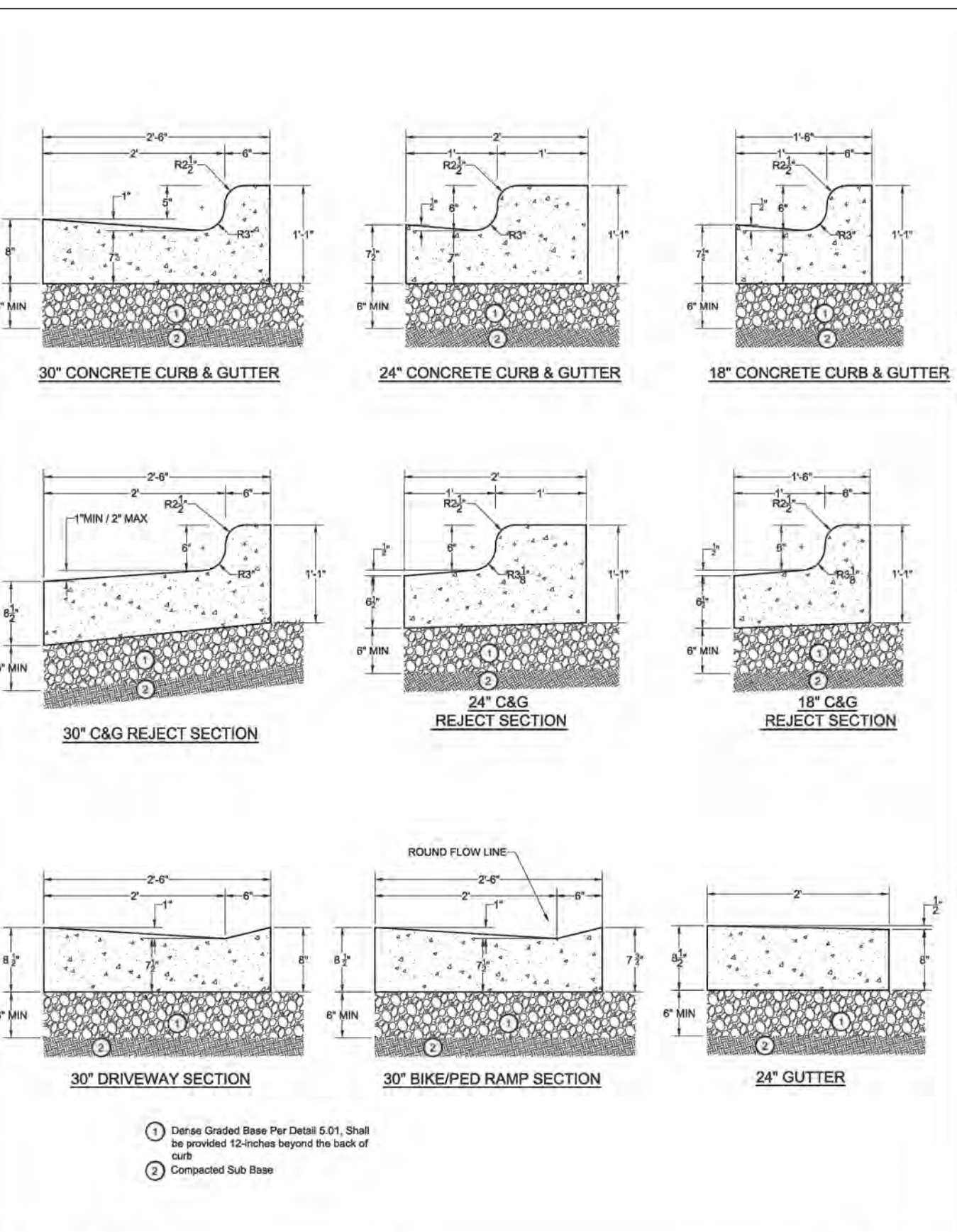
DATE: 2/1/2017
 SHEET NO.: 4.02



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SIDEWALK & RAMPS STANDARD DETAIL DRAWING

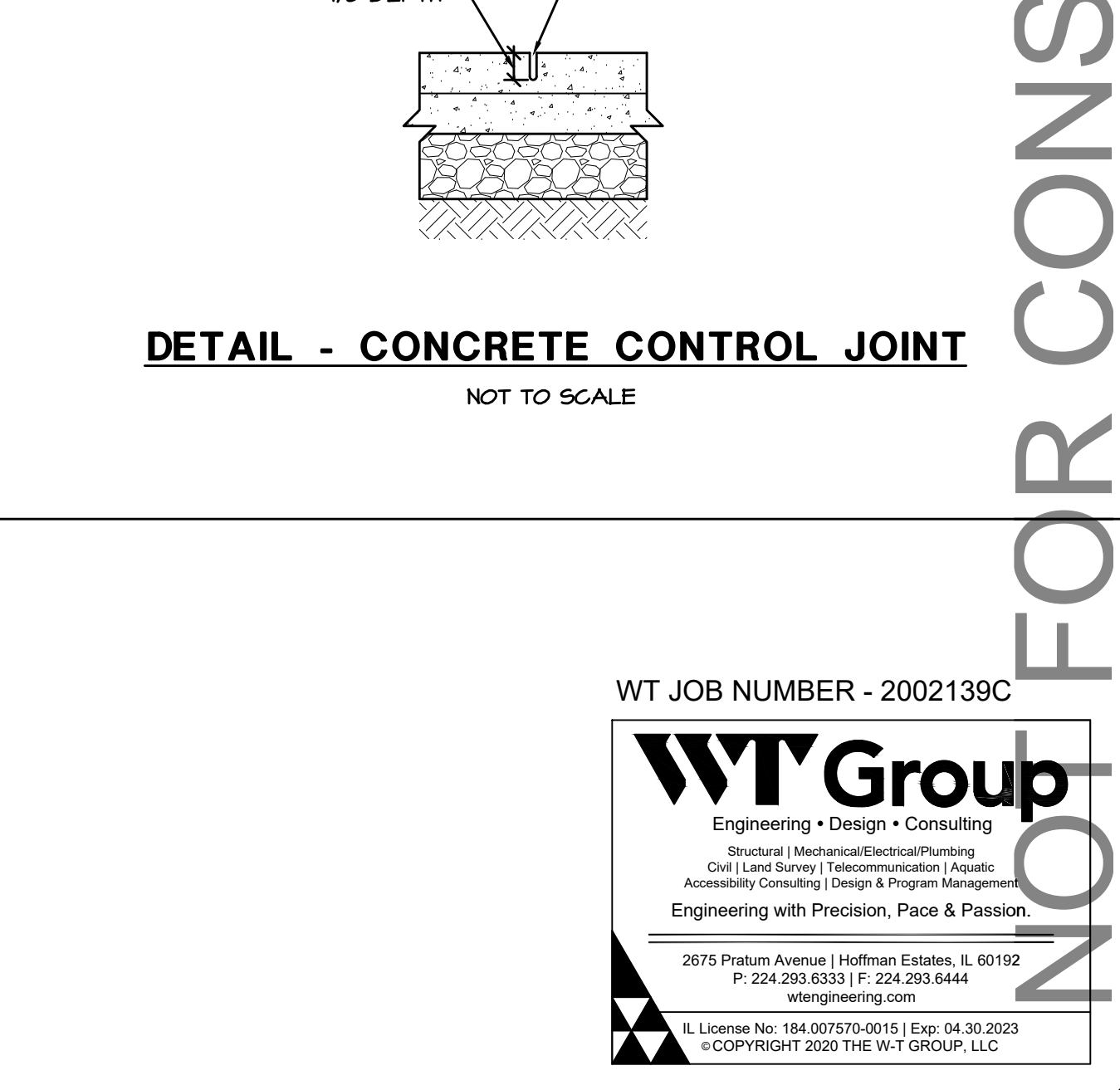
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STREET TYPES STANDARD DETAIL DRAWING

DATE: 2/1/2017
 SHEET NO.: 5.01



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DANE COUNTY EMERGENCY MANAGEMENT REMODEL

5415 KING JAMES WAY
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SITE DEVELOPMENT DETAILS

C-3.1

WT JOB NUMBER - 2002139C

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SITE GRADING PLAN
C-4.0

WT JOB NUMBER - 2002139C

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HATCH LEGEND

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5" PORTLAND CEMENT CONCRETE
4" CRUSHED AGGREGATE BASE COURSE (ABC), DOT DENSE GRADED 3/4" PER SECTION 305 WISDOT SPECIFICATIONS
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- NEW GRAVEL TRENCH DRAIN SYSTEM**

SITE GRADING NOTES:

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- B. ALL PROPOSED GRADES ARE GIVEN TO FINISHED GRADE, I.E. TOP OF PROPOSED ASPHALT, CONCRETE, TOP OF PROPOSED CURB, ETC. SEE DETAILS FOR PAVEMENT THICKNESS.
- C. CONTRACTOR SHALL CONTACT DIGGERS HOTLINE (811 OR 1-800-242-8811) AND PRIVATE LOCATING SERVICE TO LOCATE ALL UNDERGROUND UTILITY LINES PRIOR TO STARTING ANY DEMOLITION AND/OR EXCAVATION. EXACT LOCATION OF ANY EXISTING ELECTRIC, GAS, TELEPHONE, ETC. LINES ARE UNKNOWN.
- D. CONTRACTOR SHALL ENSURE POSITIVE SITE DRAINAGE AT THE END OF EACH WORKING DAY DURING CONSTRUCTION OPERATIONS. FAILURE TO PROVIDE ADEQUATE DRAINAGE WILL PRECLUDE THE CONTRACTOR FROM ANY POSSIBLE COMPENSATION REQUESTED DUE TO DELAYS OR UNSUITABLE MATERIALS CREATED AS A RESULT.
- E. CONTRACTOR SHALL RESTORE ALL DISTURBED AREAS OUTSIDE OF CONSTRUCTION LIMITS TO ORIGINAL CONDITION OR BETTER.
- F. CONTRACTOR SHALL REPAIR AT HIS EXPENSE ANY DAMAGE TO EXISTING ASPHALT, CONCRETE, CURBS, SIDEWALKS, ETC. RESULTING FROM CONSTRUCTION TRAFFIC AND/OR OPERATIONS. REPAIRS SHALL BE MADE TO THE SATISFACTION OF THE OWNER AND/OR ENGINEER.
- G. CONTRACTOR TO UTILIZE CARE WHEN WORKING NEAR EXISTING UTILITIES TO REMAIN. ANY DAMAGE TO EXISTING UTILITIES NOT NOTED TO BE REMOVED SHALL BE REPAIRED AT CONTRACTOR'S EXPENSE TO THE SATISFACTION OF THE OWNER AND/OR ENGINEER.
- H. ALL EXISTING TREES SHOWN ARE TO REMAIN UNLESS OTHERWISE NOTED.
- I. ALL HANDICAP ACCESSIBLE ROUTES (SIDEWALKS, WALKWAYS, PAVEMENTS, ETC.) SHALL MAINTAIN A MAXIMUM GROSS SLOPE OF 2.00% AND A MAXIMUM LONGITUDINAL SLOPE OF 5.00%. ACCESSIBLE PARKING SPACES SHALL MAINTAIN A MAXIMUM SLOPE OF 2.00% IN ALL DIRECTIONS.
- J. VOIDS LEFT BY ANY ITEM REMOVED UNDER ANY PROPOSED BUILDING, PAVEMENT, OR WALK OR WITHIN 24" THEREOF SHALL BE BACKFILLED WITH ENGINEERED FILL ACCORDING TO THE GEOTECHNICAL REPORT.
- K. ALL FIRE ACCESS LANES WITHIN THE PROJECT AREA SHALL REMAIN IN SERVICE, CLEAR OF DEBRIS, AND ACCESSIBLE FOR USE BY EMERGENCY VEHICLES.
- L. CONSTRUCTION ACCESS POINTS TO THE SITE SHALL BE PROTECTED IN SUCH A MANNER AS TO PREVENT TRACKING OF MUD OR SOIL ONTO PUBLIC THOROUGHFARES. ALL SEDIMENT SPILLED, DROPPED, WASHED OR TRACKED ONTO PUBLIC RIGHTS-OF-WAY MUST BE REMOVED IMMEDIATELY BY THE CONTRACTOR.
- M. ALL EXISTING SUBGRADE TO BE SCARIFIED (DISKED) TO A DEPTH OF 12" AND RE-COMPACTED, AND THEN TESTED USING A DYNAMIC CONE PENETROMETER. SEE GEOTECHNICAL REPORT FOR ADDITIONAL REQUIREMENTS.
- N. ALL EXCESS SOILS THAT CANNOT BE USED AS SUITABLE FILL SHALL BE HAULED FROM THE SITE AND LEGALLY DISPOSED OF.
- O. CONTRACTOR TO PROVIDE SOIL TESTING SERVICES FOR COMPLETION OF THE WISCONSIN DEPARTMENT OF NATURAL RESOURCES FORMS AS PART OF THEIR CONTRACT.
- P. PREPARE SUBGRADE AS SPECIFIED WITHIN THE GEOTECHNICAL REPORT DATED AUGUST 17, 2020 PREPARED BY CONSTRUCTION GEOTECHNICAL CONSULTANTS, INC. (CGC).
- Q. ALL TOPSOIL BENEATH PROPOSED STRUCTURES AND PAVEMENT SHALL BE REMOVED. REFER TO THE GEOTECHNICAL EXPLORATION REPORT DATED AUGUST 17, 2020 PREPARED BY CONSTRUCTION GEOTECHNICAL CONSULTANTS, INC. (CGC) FOR EXISTING TOPSOIL DEPTHS.
- R. PROFFROLL OF SUBGRADE AND STONE PER GEOTECHNICAL EXPLORATION REPORT DATED AUGUST 17, 2020 PREPARED BY CONSTRUCTION GEOTECHNICAL CONSULTANTS, INC. (CGC).
- S. PROFFROLL OF SUBGRADE AND STONE PER GEOTECH REPORT.

GRADING LEGEND

- EXISTING SPOT GRADE
- PROPOSED SPOT GRADE
- INTERPOLATED SPOT GRADE
- PROPOSED RIM ELEVATION
- EXISTING CONTOUR LINE
- PROPOSED CONTOUR LINE
- OVERLAND FLOW ARROW
- 100 YEAR OVERLAND FLOW ROUTE
- EMERGENCY OVERFLOW ARROW
- TOP OF PAVEMENT ELEVATION
- TOP OF SIDEWALK ELEVATION
- FINISHED GRADE ELEVATION
- FINISHED FLOOR ELEVATION
- TOP OF CURB ELEVATION
- FLOW LINE ELEVATION
- ADJUST EXISTING RIM ELEVATION
- TOP OF FOUNDATION ELEVATION
- EXISTING CLOSED MANHOLE
- EXISTING OPEN GRATE MANHOLE
- EXISTING BEEHIVE GRATE MANHOLE
- EXISTING CURB INLET
- EXISTING FIRE HYDRANT
- EXISTING VALVE VAULT
- EXISTING B-BOX
- PROPOSED INLET
- PROPOSED OPEN LID MANHOLE / CATCH BASIN
- PROPOSED CLOSED LID MANHOLE

EXISTING UTILITY DATA

- 1. RIM=997.22' (STORM)
36"x18" CONCRETE STRUCTURE
INV=993.85' (18" RCP N/SSE)
RIM=997.95' (STORM)
12"x12" CONCRETE STRUCTURE
INV=991.80' (48"x76" RCP N)
ELLIPTICAL PIPE
- 2. RIM=997.95' (STORM)
36"x18" CONCRETE STRUCTURE
INV=993.55' (18" RCP S)
RIM=991.80' (48"x76" RCP W)
ELLIPTICAL PIPE
- 3. RIM=997.10' (STORM)
36"x18" CONCRETE STRUCTURE
INV=994.79' (15" PVC S)
RIM=997.26' (STORM)
36"x18" CONCRETE STRUCTURE
INV=992.90' (18" RCP N)
- 4. RIM=997.26' (STORM)
36"x18" CONCRETE STRUCTURE
INV=993.61' (12" RCP NNW)
- 5. RIM=997.31' (STORM)
36"x18" CONCRETE STRUCTURE
INV=992.54' (12" RCP NNW/SSE)
- 6. RIM=998.05' (STORM)
CONCRETE STRUCTURE
UNABLE TO DETERMINE SIZE
INV=988.55' (53"x83" RCP E)
ELLIPTICAL PIPE
RIM=998.55' (66" RCP SW)
INV=988.65' (36" RCP NW)
- 7. RIM=997.87' (STORM)
60" CONCRETE STRUCTURE
INV=990.45' (42" RCP SSE/NW)
- 8. RIM=998.51' (STORM)
72" CONCRETE STRUCTURE
INV=990.23' (30" RCP N)
INV=990.47' (18" RCP ENE)
INV=981.23' (42" RCP SE)
- 9. RIM=1000.57' (STORM)
48" CONCRETE STRUCTURE
INV=995.85' (30" RCP N)
RIM=1001.59' (STORM)
48" CONCRETE STRUCTURE
INV=997.28' (30" RCP N/S)
RIM=1002.81' (SANITARY)
48" CONCRETE STRUCTURE
INV=996.35' (8" PVC N/S)
- 10. RIM=1005.42' (STORM)
60" CONCRETE STRUCTURE
INV=999.57' (30" RCP N/S)
INV=999.72' (18" RCP E)
INV=999.87' (18" RCP W)
- 11. RIM=998.11' (SANITARY)
48" CONCRETE STRUCTURE
INV=994.67' (8" PVC N/E/SW)
- 12. RIM=995.13' (STORM)
84" CONCRETE STRUCTURE
INV=987.18' (36" RCP ENE)
INV=979.93' (42" RCP SSE/NNW)
- 13. RIM=996.01' (STORM)
CONCRETE STRUCTURE
UNABLE TO DETERMINE SIZE
INV=989.45' (60" RCP NE/SW)
INV=989.21' (24" RCP ESE CAPPED)
- 14. RIM=997.33' (SANITARY)
48" CONCRETE STRUCTURE
INV=992.28' (15" PVC E)
INV=992.28' (12" RCP N)
- 15. RIM=999.10' (SANITARY)
48" CONCRETE STRUCTURE
INV=994.45' (12" RCP NNE/SW)
INV=995.72' (4" PVC E)
- 16. RIM=1010.75' (STORM)
84" CONCRETE STRUCTURE
INV=996.20' (48" RCP N)
INV=996.20' (48"x76" RCP S)*
* ELLIPTICAL PIPE

1 SITE GRADING PLAN
 SCALE 1" = 20'



NOT FOR CONSTRUCTION

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DANE COUNTY EMERGENCY MANAGEMENT REMODEL
5415 KING JAMES WAY
FITCHBURG, WISCONSIN 53719

CLIENT APPROVAL
 APPROVED
 APPROVED AS NOTED
APPROVED BY / DATE:

ISSUE RECORD

DD SET	08/04/20
CD CHECK SET	11/20/20
98% CD REVIEW	02/11/21
HVAC REDESIGN	04/30/21
ISSUE FOR BID	06/08/21

CHECKED BY: JEG
DRAWN BY: BRA
DATE: 5/28/2021 12:34:20 PM
PROJECT NUMBER: 2020-001

SITE UTILITY PLAN
C-5.0

WT Group
Engineering • Design • Consulting
Structural | Mechanical | Electrical | Plumbing
Civil | Land Survey | Telecommunication | Aquatic
Accessibility Consulting | Design & Program Management
Engineering with Precision, Pace & Passion.

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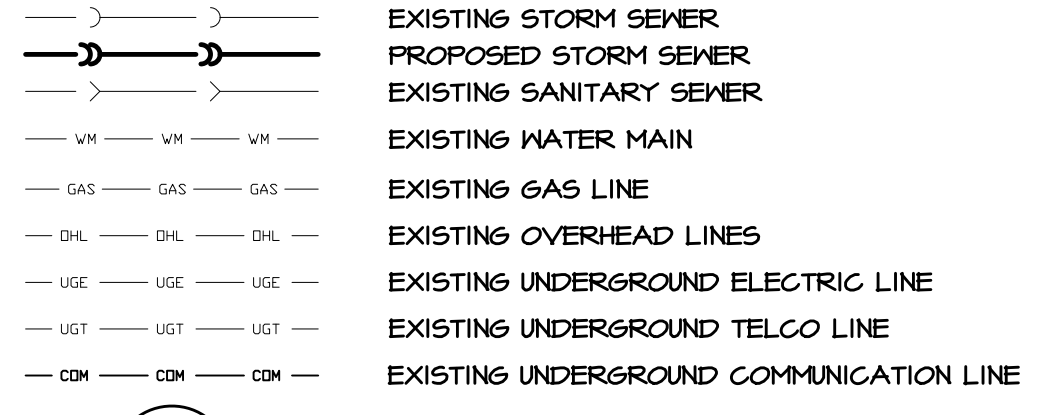
SITE UTILITY NOTES:

- CONTRACTOR SHALL CONTACT DIGGERS HOTLINE, WISCONSIN ONE-CALL CENTER (811 OR 1-800-242-8911) AND PRIVATE LOCATING SERVICE TO LOCATE ALL UNDERGROUND UTILITY LINES PRIOR TO STARTING ANY DEMOLITION AND/OR EXCAVATION. EXACT LOCATIONS OF ANY EXISTING ELECTRIC, GAS, TELEPHONE, ETC. LINES ARE UNKNOWN.
- CONTRACTOR TO UTILITY CARE WHEN WORKING NEAR EXISTING UTILITIES TO REMAIN. ANY DAMAGE TO EXISTING UTILITIES NOT NOTED TO BE REMOVED SHALL BE REPAIRED AT THE CONTRACTOR'S EXPENSE AND TO THE SATISFACTION OF THE OWNER AND/OR ENGINEER.
- CONTRACTOR SHALL EXCAVATE AND VERIFY IN FIELD ALL EXISTING UTILITY LOCATIONS, SIZES, CONDITIONS AND ELEVATIONS AT PROPOSED POINTS OF CONNECTION PRIOR TO ANY UNDERGROUND CONSTRUCTION. CONTRACTOR SHALL NOTIFY THE OWNER AND ENGINEER OF ANY DISCREPANCIES OR CONFLICTS PRIOR TO PROCEEDING WITH CONSTRUCTION.
- REFER TO THE GENERAL NOTES AND SPECIFICATION SHEETS FOR ALL PIPE MATERIAL AND JOINT SPECIFICATIONS.
- CONTRACTOR SHALL RESTORE ALL DISTURBED AREAS OUTSIDE OF CONSTRUCTION LIMITS TO ORIGINAL CONDITION OR BETTER.
- CONTRACTOR SHALL VERIFY IN FIELD EXISTING SIZE, MATERIAL, INVERT, PIPE ROUTING, AND SLOPE OF ALL EXISTING UTILITIES AND NOTIFY THE OWNER AND ENGINEER OF ANY DISCREPANCIES OR CONFLICTS PRIOR TO CONSTRUCTION.
- THE CONTRACTOR IS RESPONSIBLE FOR THE STABILITY OF UTILITY TRENCHES DURING CONSTRUCTION AND SHALL PROVIDE TEMPORARY SHORING AND BRACING AS NECESSARY TO MAINTAIN STABILITY UNTIL CONSTRUCTION OF THE UTILITY IS COMPLETE TO MEET OSHA AND LOCAL CODES, AS WELL AS MANUFACTURER'S REQUIREMENTS.
- ALL RCP STORM SEWER PIPE SHALL BE REINFORCED CONCRETE PIPE, CLASS IV, PER ASTM C-76 WITH FLEXIBLE (O-RING) GASKET JOINTS IN CONFORMANCE WITH ASTM C-443.
- TRENCH BACKFILL MATERIAL SHALL BE PLACED AND COMPACTED TO A MINIMUM OF 95% MODIFIED PROCTOR DENSITY (ASTM D-1557) OVER ALL UNDERGROUND UTILITIES WHICH ARE CONSTRUCTED UNDER OR WITHIN 2 FEET OF ANY PROPOSED OR EXISTING PAVEMENT OR SIDEWALKS IN ACCORDANCE WITH THE STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION.
- ADJUST RIM ELEVATIONS OF EXISTING STRUCTURES IN PAVEMENT AS NECESSARY TO MEET PROPOSED FINISHED GRADE.
- CONTRACTOR TO COORDINATE ALL CONNECTIONS TO CITY UTILITIES AND STORM SEWERS WITH THE PUBLIC WORKS DEPARTMENT.
- CONTRACTOR TO USE CAUTION WHEN EXCAVATING AT EXISTING UTILITY LINES.
- ALL STORM MANHOLE OPEN LIDS UNLESS OTHERWISE SPECIFIED.
- ALL EXISTING UTILITIES TO BE ABANDONED IN PLACE SHALL BE CAPPED WITH 2' LONG (MIN) NON-SHRINK CONCRETE MORTAR PLUGS AT BOTH ENDS.
- CONTRACTOR SHALL PROVIDE AN ALLOWANCE FOR RODDING AND TELEVISION EXISTING ON-SITE STORM AND SANITARY SEWERS.

STORM SEWER

- EXISTING STORM STRUCTURE AND ASSOCIATED PIPES TO REMAIN.
- EXISTING STORM SEWER TO REMAIN.
- NEW 6" ROOF DRAIN CONNECTION WITH ALL FITTINGS REQUIRED. SEE PLUMBING PLANS FOR CONTINUATION AND FINISHES.
- NEW BLIND CONNECTION PIPE #5 TO EXISTING HORIZONTAL ORIENTED ELLIPTICAL PIPE WITH ALL FITTINGS REQUIRED. CONTRACTOR TO MATCH THE SPRING LINES OF BOTH PIPES. CONTRACTOR TO VERIFY IN FIELD EXACT LOCATION AND RIM ELEVATION PRIOR TO CONSTRUCTION.
- NEW 18" R.C.P., 21 L.F., @ 3.67% SLOPE.
- NEW 48" DIA. PRECAST CONCRETE CATCH BASIN WITH DRAINTILE.
- NEW 15" R.C.P., 61 L.F., @ 1.64% SLOPE.
- NEW 48" DIA. PRECAST CONCRETE CATCH BASIN WITH DRAINTILE.
- NEW 48" DIA. PRECAST CONCRETE CATCH BASIN WITH DRAINTILE.
- NEW 15" HD.P.E., 23 L.F., @ 0.87% SLOPE.
- NEW 48" DIA. PRECAST CONCRETE CATCH BASIN WITH DRAINTILE.
- NEW 15" HD.P.E., 41 L.F., @ 0.82% SLOPE.
- NEW 48" DIA. PRECAST CONCRETE CATCH BASIN WITH DRAINTILE.
- NEW 15" HD.P.E., 42 L.F., @ 0.71% SLOPE.
- NEW 24" DIA. PRECAST CONCRETE INLET WITH DRAINTILE.
- NEW 6" HD.P.E., 34 L.F., @ 1.03% SLOPE.
- NEW 24" DIA. PRECAST CONCRETE INLET WITH DRAINTILE.
- NEW 4" SDR 26 P.V.C. PIPE, 12 L.F., @ MINIMUM 1.00% SLOPE, WITH ALL FITTINGS REQUIRED, BURIED MINIMUM 12".
- NEW BUILDING CONNECTION. SEE PLUMBING PLANS FOR MORE INFORMATION AND CONTINUATION.
- NEW 8" P.V.C. PIPE, 58 L.F., @ MINIMUM 1.00% SLOPE, WITH ALL FITTINGS REQUIRED.
- CONTRACT PIPE #23 TO FOOTING UNDERDRAIN SYSTEM. CONTRACTOR TO COORDINATE WITH STRUCTURAL ENGINEER AND ARCHITECT FOR TRENCH SYSTEM, TO AVOID ANY CONFLICTS. SEE PLUMBING AND STRUCTURAL PLANS FOR MORE DETAILS AND CONTINUATION.
- NEW 6" SDR 26 P.V.C. PIPE, 6 L.F., @ MINIMUM 1.00% SLOPE, WITH ALL FITTINGS REQUIRED. BLIND CONNECT DOWNSTREAM END TO 15" PIPE #11, MATCH SPRING LINE OF BOTH PIPES. CONTRACTOR TO COORDINATE INSTALLATION WITH STONE STRIP TRENCH SYSTEM, TO AVOID CONFLICTS.
- NEW 12" HD.P.E., 41 L.F., @ 1.03% SLOPE.
- NEW 24" DIA. PRECAST CONCRETE INLET WITH DRAINTILE.
- NEW 24" DIA. PRECAST CONCRETE INLET WITH DRAINTILE. CONSTRUCT OVER EXISTING PIPES TO THE SOUTH AND NORTH SIDES OF THE STRUCTURE. MATCH INVERT ELEVATION. CONTRACTOR TO VERIFY IN FIELD EXACT LOCATION, SIZE, MATERIAL AND INVERT ELEVATION OF EXISTING PIPES AT CONNECTION POINT PRIOR TO CONSTRUCTION. NOTIFY ENGINEER OF ANY DISCREPANCIES.
- NEW 3" P.V.C., 10 L.F., @ MIN. 1.00% SLOPE. COORDINATE INVERT ELEVATION WITH LIFT STATION MANUFACTURER.
- NEW 48" DIA. PRECAST CONCRETE STRUCTURE WITH DUPLEX STORM WATER LIFT STATION. SEE DETAIL ON SHEET C-5.2.
- NEW 12" R.C.P., 143 L.F., @ 0.98% SLOPE.
- NEW 48" DIA. PRECAST CONCRETE CATCH BASIN WITH DRAINTILE.
- NEW 12" R.C.P., 41 L.F., @ 0.75% SLOPE.
- NEW 48" DIA. PRECAST CONCRETE CATCH BASIN WITH DRAINTILE.
- NEW 8" SDR 26 P.V.C. PIPE, 42 L.F., @ 0.45% SLOPE.
- NEW 8" SDR 26 P.V.C. PIPE, 3 L.F., @ MINIMUM 1.00% SLOPE, WITH ALL FITTINGS REQUIRED. BLIND CONNECT DOWNSTREAM END TO 12" PIPE #35, MATCH SPRING LINE OF BOTH PIPES.
- NEW 8" ROOF DRAIN CONNECTION WITH ALL FITTINGS REQUIRED. SEE PLUMBING PLANS FOR CONTINUATION AND MORE DETAILS.
- EXISTING STORM SEWER TO REMAIN. ADJUST RIM ELEVATION TO MATCH PROPOSED GRADE. REPLACE CLEAN OUT LID WITH HEAVY DUTY TYPE.
- NEW CLEAN OUT, TOTAL T.I.
- EXISTING CLEAN OUT TO REMAIN. ADJUST RIM ELEVATION TO MATCH PROPOSED GRADE. REPLACE CLEAN OUT LID WITH HEAVY DUTY TYPE.
- NEW WATERPROOFING FOUNDATION / STONE STRIP TRENCH SYSTEM. SEE LANDSCAPE, ARCHITECTURAL AND PLUMBING PLANS FOR MORE DETAILS.
- NEW FLOOD LIGHT. SEE ELECTRICAL PLAN FOR MORE DETAILS.
- EXISTING TELECO PEDestal TO REMAIN.
- EXISTING ELECTRICAL PANEL TO REMAIN.
- NEW CONDUIT AND FIBER OPTIC. SEE ELECTRICAL PLANS FOR ALL DETAILS.
- NEW MANHOLE WITH FIBER OPTIC. SEE ELECTRICAL PLANS FOR ALL DETAILS. CONTRACTOR TO CONFIRM LOCATION PRIOR TO CONSTRUCTION.

UTILITY LEGEND



PROPOSED RIM ELEVATION
PROPOSED INVERT ELEVATION

- EXISTING UTILITY BACKFILL TRENCH
- V.I.F. VERIFY IN FIELD
- FF FINISHED FLOOR ELEVATION
- ADJUST ADJUST EXISTING RIM ELEVATION
- EXISTING CLOSED MANHOLE
- EXISTING OPEN GRATE MANHOLE
- EXISTING BEEHIVE GRATE MANHOLE
- EXISTING CURB INLET
- EXISTING FIRE HYDRANT
- EXISTING B-BOX
- NEW AREA LIGHT
- NEW TOP POST AREA LIGHT
- NEW FLOOD LIGHT
- NEW BOLLARD LIGHT
- PROPOSED INLET
- PROPOSED OPEN LID MANHOLE / CATCH BASIN
- PROPOSED CLOSED LID MANHOLE
- PROPOSED LIFT STATION STRUCTURE

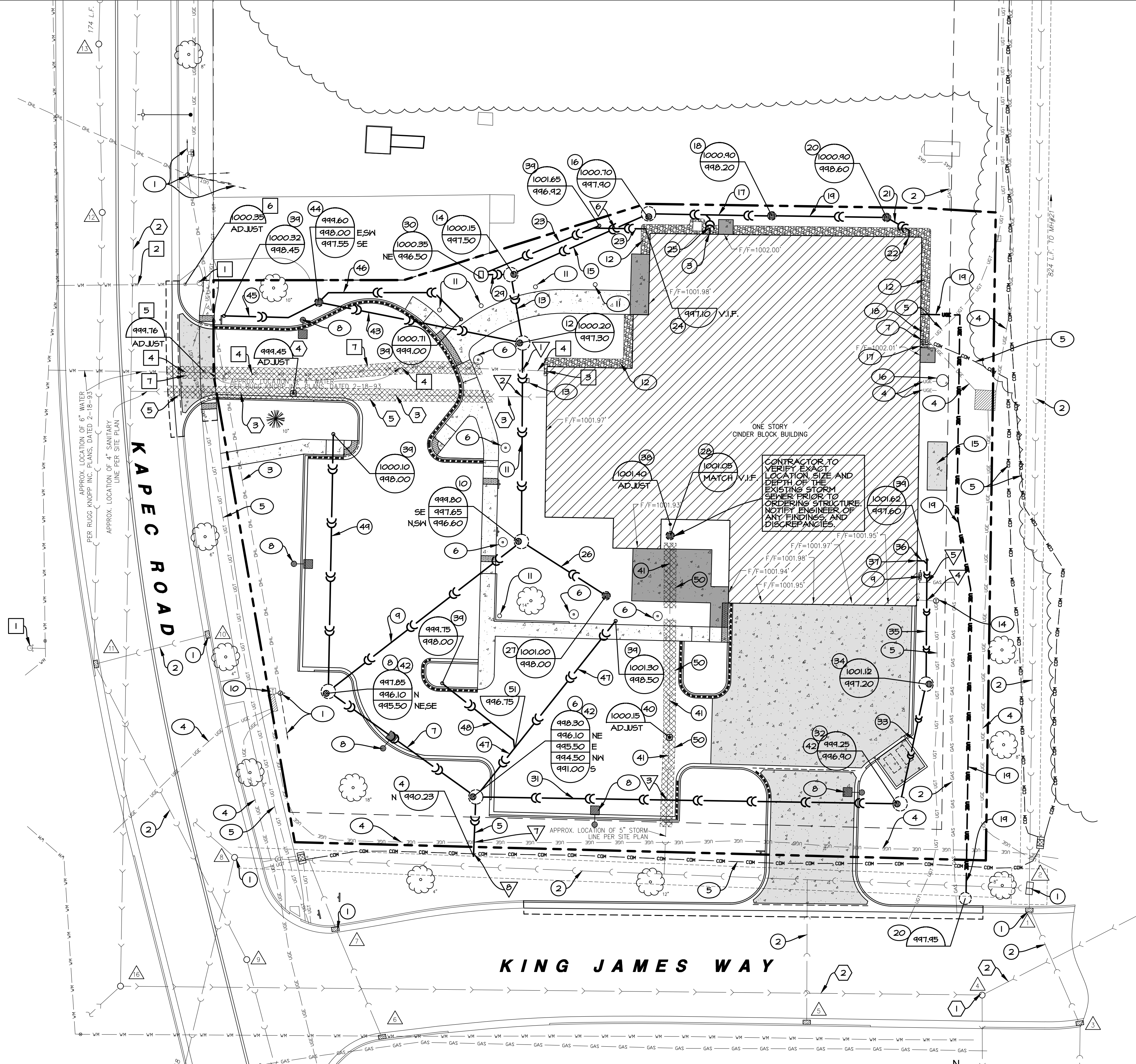
EXISTING UTILITY DATA

- △ RIM=997.22' (STORM) 36"x18" CONCRETE STRUCTURE INV=993.85' (18" RCP N/SSE)
- △ RIM=997.95' (STORM) 12"x12" CONCRETE STRUCTURE INV=991.80' (48"x18" RCP N) ELLIPTICAL PIPE
- △ RIM=997.10' (STORM) 36"x18" CONCRETE STRUCTURE INV=994.79' (18" RCP NNW)
- △ RIM=998.34' (SANITARY) 48" CONCRETE STRUCTURE INV=993.34' (12" RCP NE/S)
- △ RIM=997.65' (STORM) 36"x18" CONCRETE STRUCTURE INV=992.90' (18" RCP N)
- △ RIM=997.26' (STORM) 36"x18" CONCRETE STRUCTURE INV=993.61' (12" RCP NNW)
- △ RIM=997.31' (STORM) 36"x18" CONCRETE STRUCTURE INV=992.54' (12" RCP NNW/SSE)
- △ RIM=998.05' (STORM) CONCRETE STRUCTURE UNABLE TO DETERMINE SIZE INV=988.55' (53"x83" RCP E) ELLIPTICAL PIPE
- △ RIM=997.87' (STORM) 60" CONCRETE STRUCTURE INV=980.45' (42" RCP SSE/NW)
- △ RIM=998.42' (STORM) 72" CONCRETE STRUCTURE INV=990.23' (30" RCP N)
- △ RIM=1000.57' (STORM) 48" CONCRETE STRUCTURE INV=995.85' (30" RCP N)
- △ RIM=1001.59' (STORM) 48" CONCRETE STRUCTURE INV=997.28' (30" RCP N/S)
- △ RIM=1002.81' (SANITARY) 48" CONCRETE STRUCTURE INV=996.35' (8" PVC N/S)
- △ RIM=1005.42' (STORM) 60" CONCRETE STRUCTURE INV=999.57' (30" RCP N/S)
- △ RIM=1002.81' (SANITARY) 48" CONCRETE STRUCTURE INV=999.87' (18" RCP W)
- △ RIM=998.11' (SANITARY) 48" CONCRETE STRUCTURE INV=994.67' (8" PVC N/E/SW)
- △ RIM=995.13' (STORM) 48" CONCRETE STRUCTURE INV=979.83' (42" RCP SSE/NNW)
- △ RIM=996.01' (STORM) CONCRETE STRUCTURE UNABLE TO DETERMINE SIZE INV=987.46' (66" RCP NE/SW)
- △ RIM=997.33' (SANITARY) 48" CONCRETE STRUCTURE INV=992.28' (15" PVC E)
- △ RIM=999.10' (SANITARY) 48" CONCRETE STRUCTURE INV=994.46' (12" RCP N/E/SW)
- △ RIM=1010.75' (STORM) 84" CONCRETE STRUCTURE INV=996.20' (48"x76" RCP S)* ELLIPTICAL PIPE

MISC. UTILITY

- EXISTING UTILITY POLE, GUY WIRE AND ASSOCIATED OVERHEAD LINES TO REMAIN.
- EXISTING GAS LINE TO REMAIN.
- EXISTING OVERHEAD LINES TO REMAIN.
- EXISTING UNDERGROUND ELECTRIC TO REMAIN.
- EXISTING UNDERGROUND TELCO TO REMAIN.
- NEW TOP POST AREA LIGHT. SEE ELECTRICAL PLAN FOR MORE DETAILS.
- EXISTING ELECTRIC METER TO REMAIN.
- NEW AREA LIGHT. SEE ELECTRICAL PLAN FOR MORE DETAILS.
- EXISTING GAS METER TO REMAIN.
- EXISTING TELCO PEDestal TO REMAIN.
- EXISTING BOLLARD LIGHT. SEE ELECTRICAL PLAN FOR MORE DETAILS.
- NEW WATERPROOFING FOUNDATION / STONE STRIP TRENCH SYSTEM. SEE LANDSCAPE, ARCHITECTURAL AND PLUMBING PLANS FOR MORE DETAILS.
- EXISTING TELECOMMUNICATION MANHOLE TO REMAIN. CONTRACTOR TO VERIFY IN FIELD, AND COORDINATE WITH UTILITY OWNER IF THIS STRUCTURE AND RELATED TELECOMMUNICATION LINES IS ACTIVE AND SERVING THE EXISTING BUILDING.
- NEW GENERATOR PAD. SEE ELECTRICAL PLANS FOR GENERATOR DETAILS AND REQUIREMENTS.
- NEW CONCRETE TOWER FOUNDATION. SEE TELECOMMUNICATION PLANS FOR ALL DETAILS AND REQUIREMENTS. CONTRACTOR TO COORDINATE INSTALLATION WITH EXISTING UTILITIES IN THE AREA.
- EXISTING TELECOMMUNICATION PANEL TO REMAIN.
- EXISTING ELECTRICAL PANEL TO REMAIN.
- NEW CONDUIT AND FIBER OPTIC. SEE ELECTRICAL PLANS FOR ALL DETAILS.
- NEW MANHOLE WITH FIBER OPTIC. SEE ELECTRICAL PLANS FOR ALL DETAILS. CONTRACTOR TO CONFIRM LOCATION PRIOR TO CONSTRUCTION.

1 SITE UTILITY PLAN
SCALE 1" = 20'



PIPE CROSSING INFORMATION

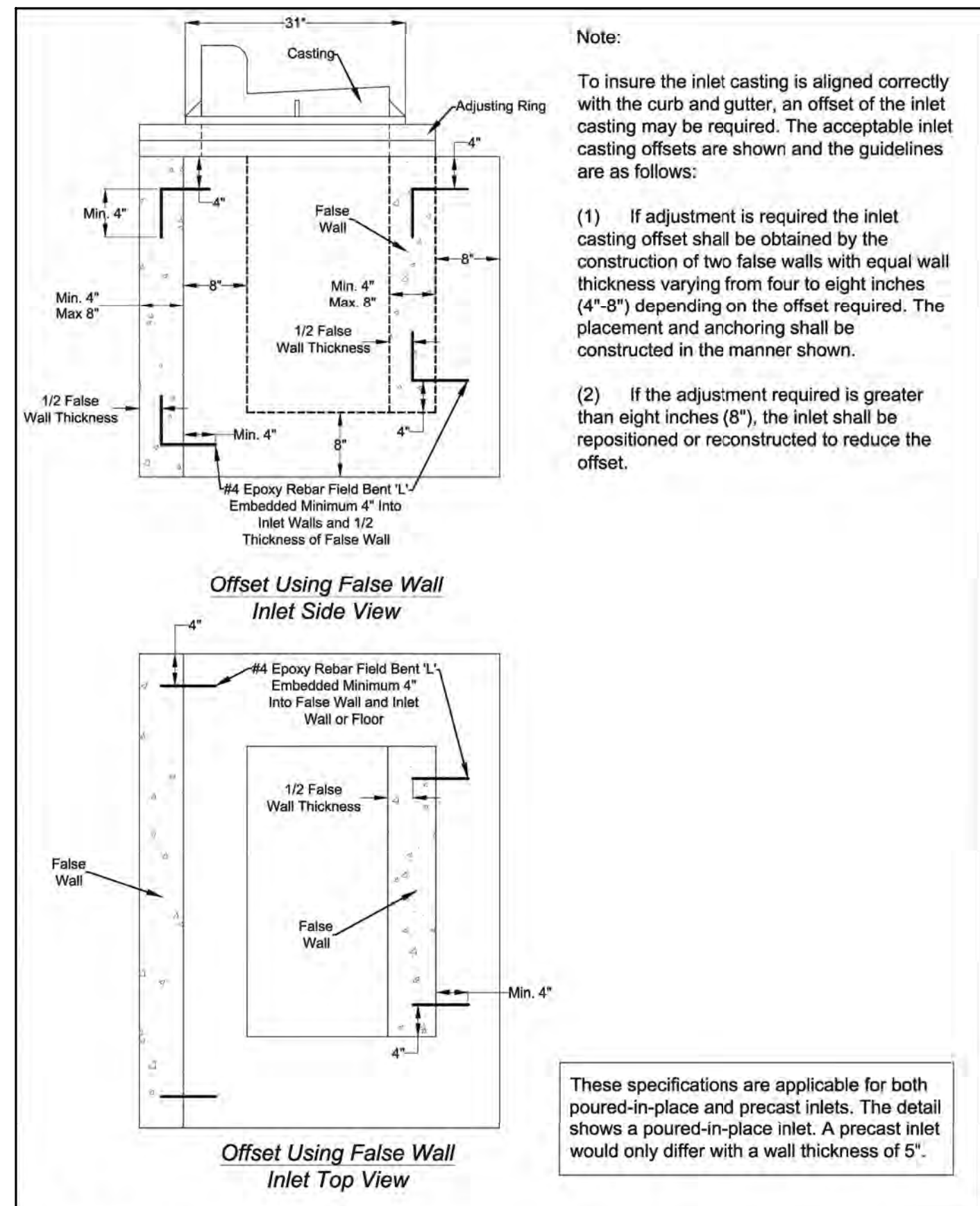
- CONTRACTOR TO FIELD VERIFY CROSSINGS. IF FIELD CONDITIONS PROHIBIT 18" OF CLEARANCE BETWEEN PROPOSED STORM SEWER AND EXISTING WATER MAIN, NOTIFY ENGINEER PRIOR TO PROCEEDING. FOLLOW EPA WATER-SEWER SEPARATION REQUIREMENTS. (V.I.F. - VERIFY IN FIELD)
- GRADE ELEV. 1001.5 +/- BOT OF 15" STORM = 997.2 +/- TOP OF 4" WATER
 - GRADE ELEV. 1001.3 +/- BOT OF 15" STORM = 997.1 +/- TOP OF 4" SANITARY
 - GRADE ELEV. 999.6 +/- BOT OF 12" STORM = 996.0 +/- TOP OF 5" STORM
 - GRADE ELEV. 1001.7 +/- BOT OF TELCO LINE = 999.0 +/- V.I.F. = 998.2 +/-
 - GRADE ELEV. 1001.7 +/- BOT OF GAS = 999.0 +/- V.I.F. = 998.1 +/-
 - GRADE ELEV. 1001.0 +/- BOT OF 15" STORM = 997.1 +/- TOP OF 8" STORM
 - GRADE ELEV. 999.1 +/- BOT OF ELECTRIC = 997.1 +/- V.I.F. = 995.1 +/-
 - GRADE ELEV. 999.0 +/- BOT OF TELCO LINE = 997.0 +/- V.I.F. = 995.0 +/-

SANITARY

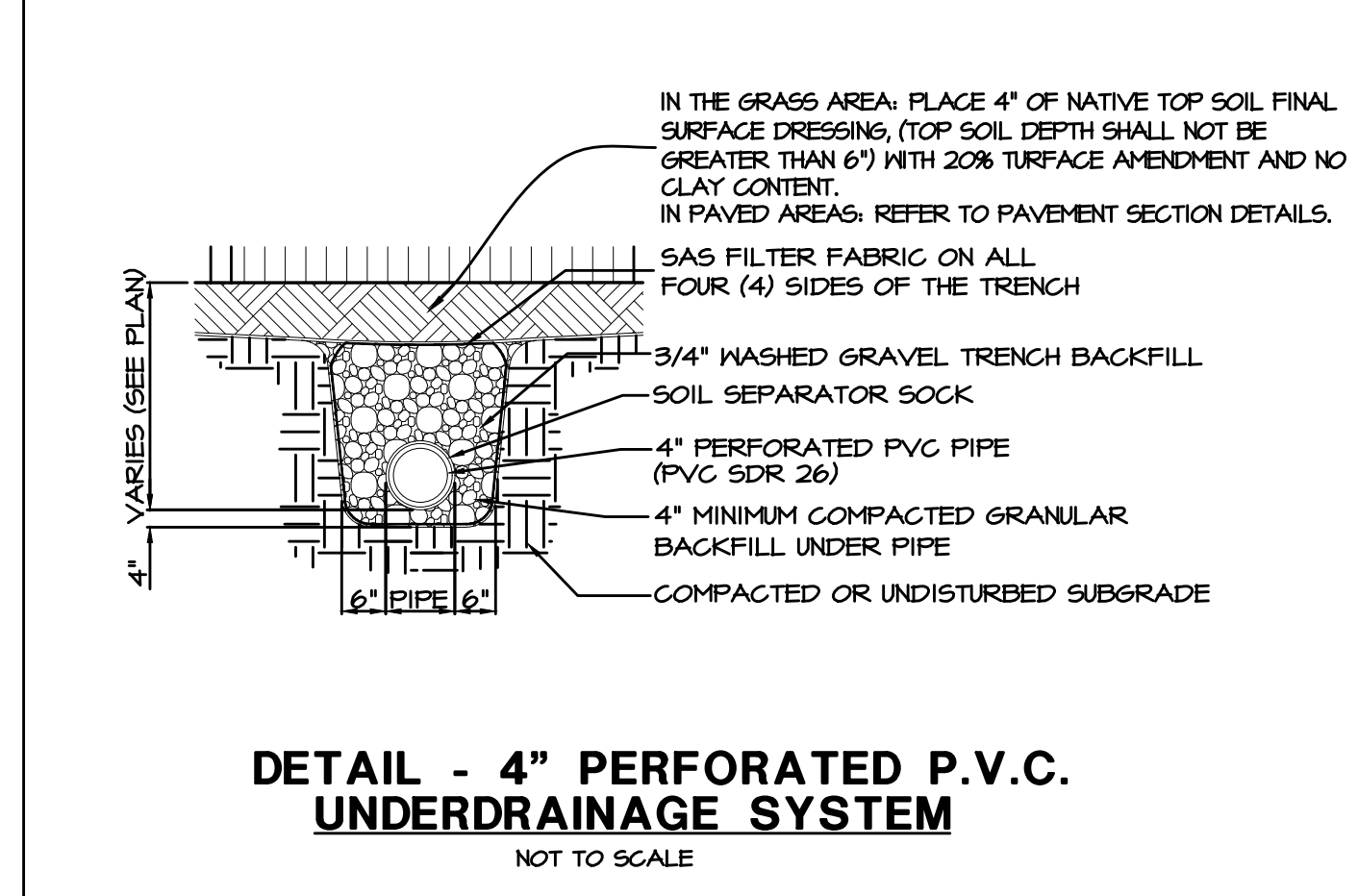
- EXISTING SANITARY STRUCTURE AND ASSOCIATED PIPES TO REMAIN.
- EXISTING SANITARY SEWER TO REMAIN.
- EXISTING SANITARY SEWER TO REMAIN, SHOWN PER RECORDS. CONTRACTOR SHALL PERFORM INVESTIGATION INCLUDING BUT NOT LIMITED TO TRACING, TEST HOLES, VACUUM EXCAVATION IN ORDER TO CONFIRM EXISTENCE, EXACT LOCATION, SIZE, INVERT ELEVATION AND CONDITION PRIOR TO CONSTRUCTION. NOTIFY ENGINEER OF ANY FINDINGS AND DISCREPANCIES.
- EXISTING CLEAN OUT TO REMAIN, SHOWN PER RECORDS. CONTRACTOR SHALL PERFORM INVESTIGATION INCLUDING BUT NOT LIMITED TO TRACING, TEST HOLES, VACUUM EXCAVATION IN ORDER TO CONFIRM EXISTENCE, EXACT LOCATION, SIZE, INVERT ELEVATION AND CONDITION PRIOR TO CONSTRUCTION. NOTIFY ENGINEER OF ANY FINDINGS AND DISCREPANCIES.
- EXISTING B-BOX TO REMAIN. ADJUST RIM ELEVATION TO MATCH PROPOSED GRADE. REPLACE CLEAN OUT LID WITH HEAVY DUTY TYPE.
- EXCAVATE TO EXISTING SANITARY SEWER AND BACKFILL TRENCH AS SPECIFIED ON THE TRENCH DETAIL, FOR THE LOCATIONS WHICH PAVEMENT CROSSES OVER THE SANITARY SEWER. PROTECT THE SANITARY SEWER LINE DURING CONSTRUCTION.

WATER

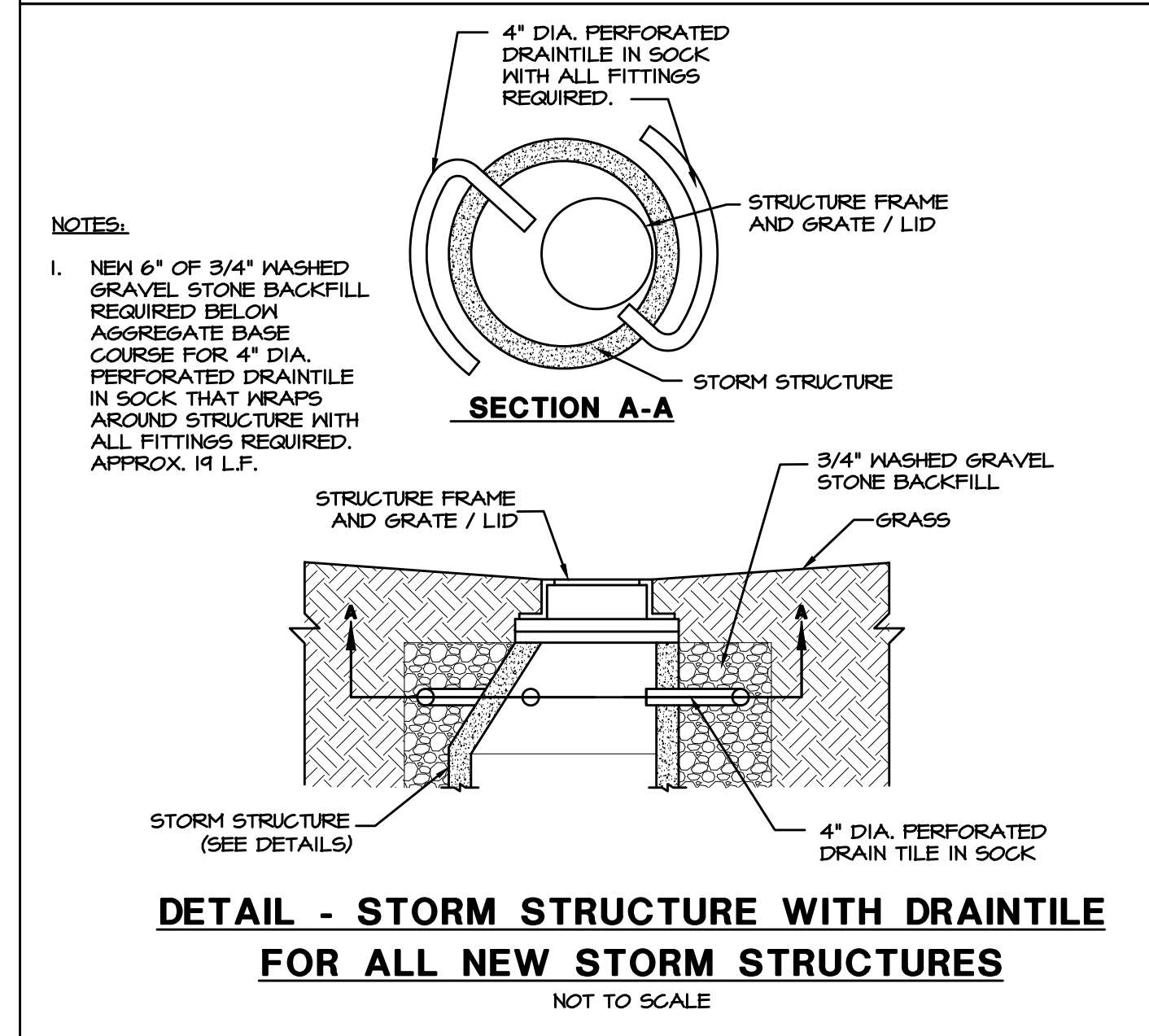
- GENERAL WATER NOTES:
- ALL FITTINGS SHALL HAVE MECHANICAL JOINTS RESTRAINED BY MEGALUS GLANDS.
 - CONTRACTOR SHALL COORDINATE WATER TAPS WITH THE VILLAGE PUBLIC WORKS DEPARTMENT PRIOR TO CONSTRUCTION.
- EXISTING HYDRANT TO REMAIN.
 - EXISTING WATERMAIN TO REMAIN.
 - EXISTING FIRE DEPARTMENT CONNECTION TO REMAIN.
 - EXISTING WATER SERVICE LINE TO REMAIN, SHOWN PER RECORDS. CONTRACTOR SHALL PERFORM INVESTIGATION INCLUDING BUT NOT LIMITED TO TRACING, TEST HOLES, VACUUM EXCAVATION IN ORDER TO CONFIRM EXISTENCE, EXACT LOCATION, SIZE, INVERT ELEVATION AND CONDITION PRIOR TO CONSTRUCTION. NOTIFY ENGINEER OF ANY FINDINGS AND DISCREPANCIES.
 - EXISTING B-BOX TO REMAIN. ADJUST RIM ELEVATION TO MATCH PROPOSED GRADE. REPLACE B-BOX LID WITH HEAVY DUTY TYPE.
 - EXISTING B-BOX TO REMAIN. ADJUST RIM ELEVATION TO MATCH PROPOSED GRADE. REPLACE B-BOX LID WITH HEAVY DUTY TYPE.
 - EXCAVATE TO EXISTING WATER MAIN AND BACKFILL TRENCH AS SPECIFIED ON THE TRENCH DETAIL, FOR THE LOCATIONS WHICH PAVEMENT CROSSES OVER THE WATER SERVICE. PROTECT THE WATER SERVICE DURING CONSTRUCTION.



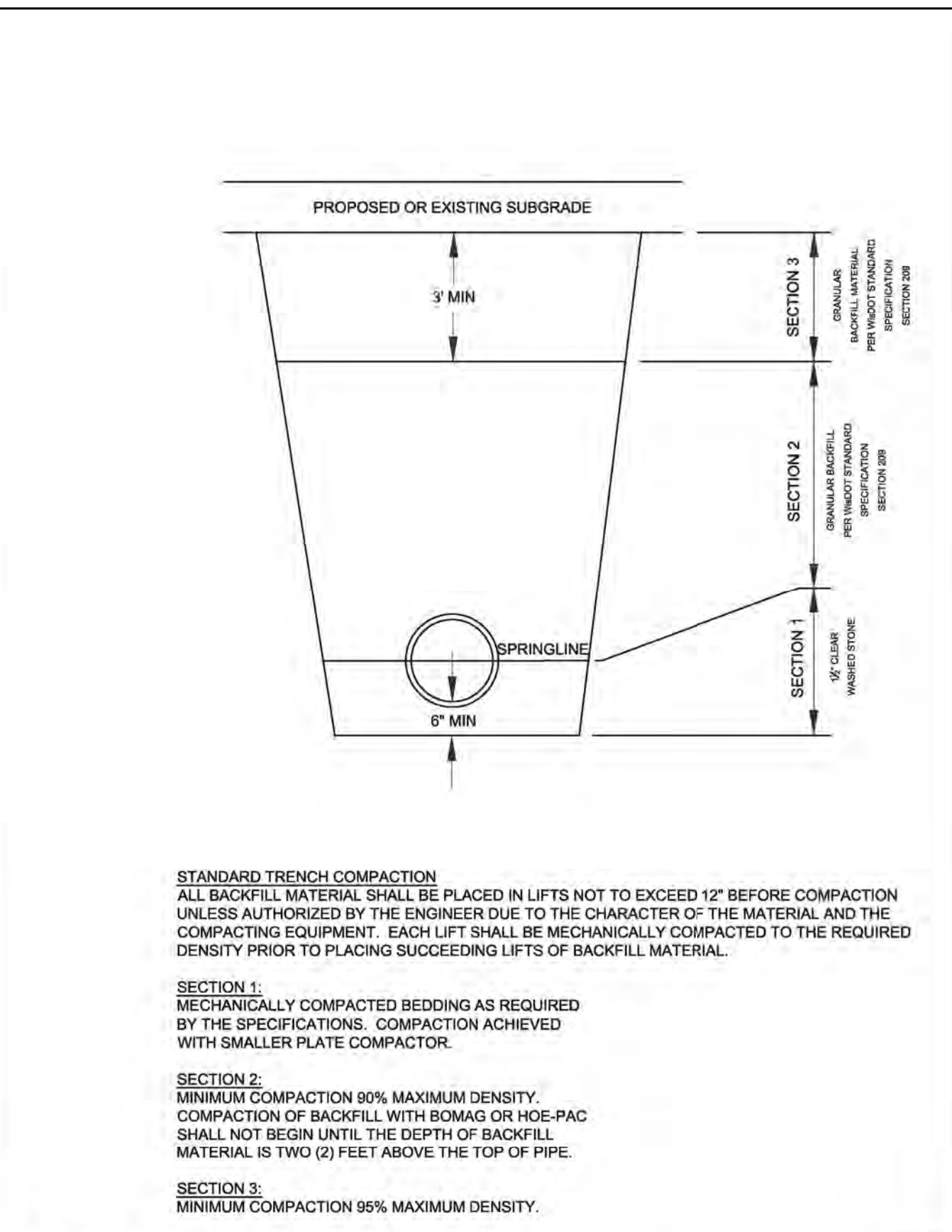
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	STANDARD DETAIL DRAWING	SHEET NO.: 6.04



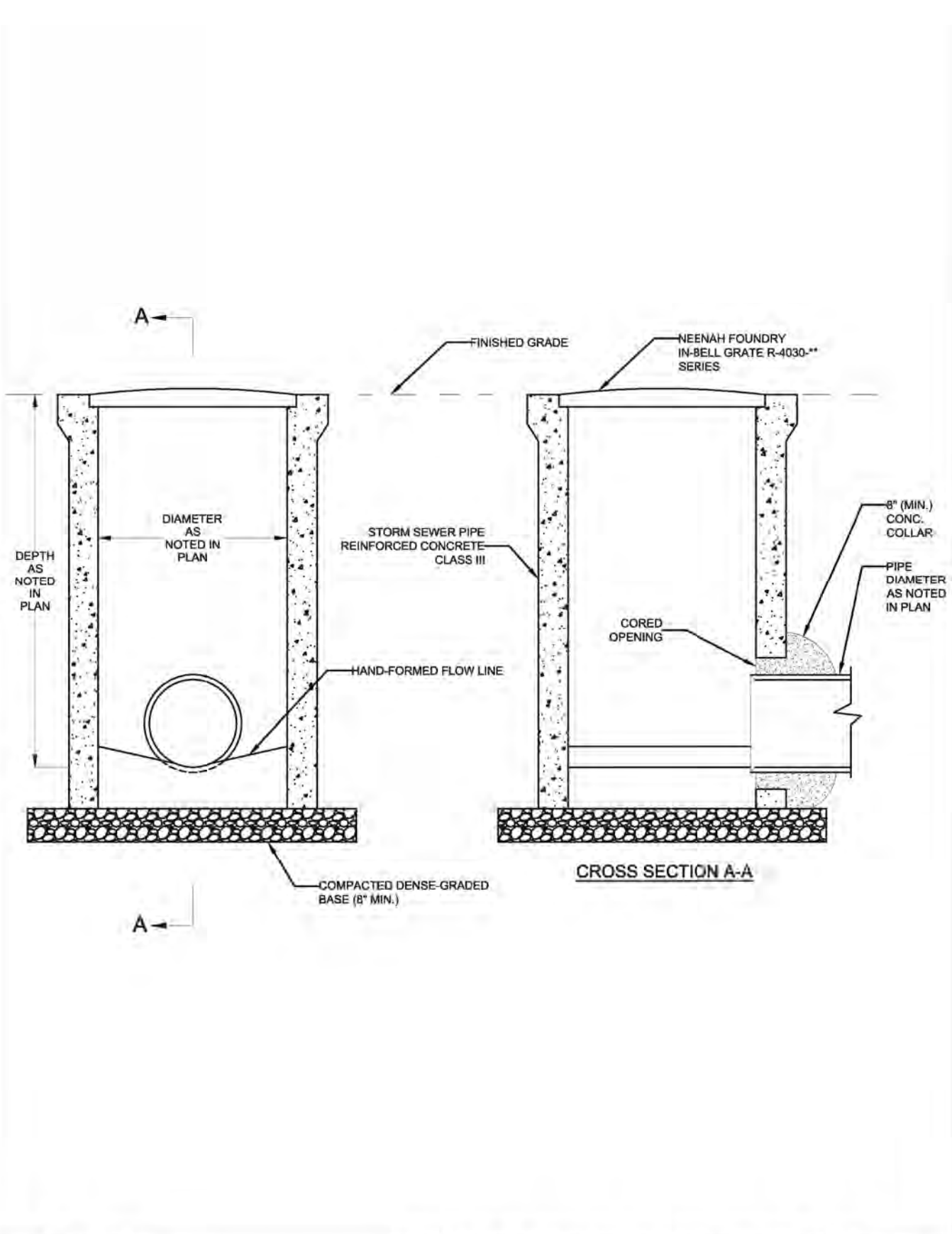
DETAIL - 4" PERFORATED P.V.C. UNDERDRAINAGE SYSTEM
NOT TO SCALE



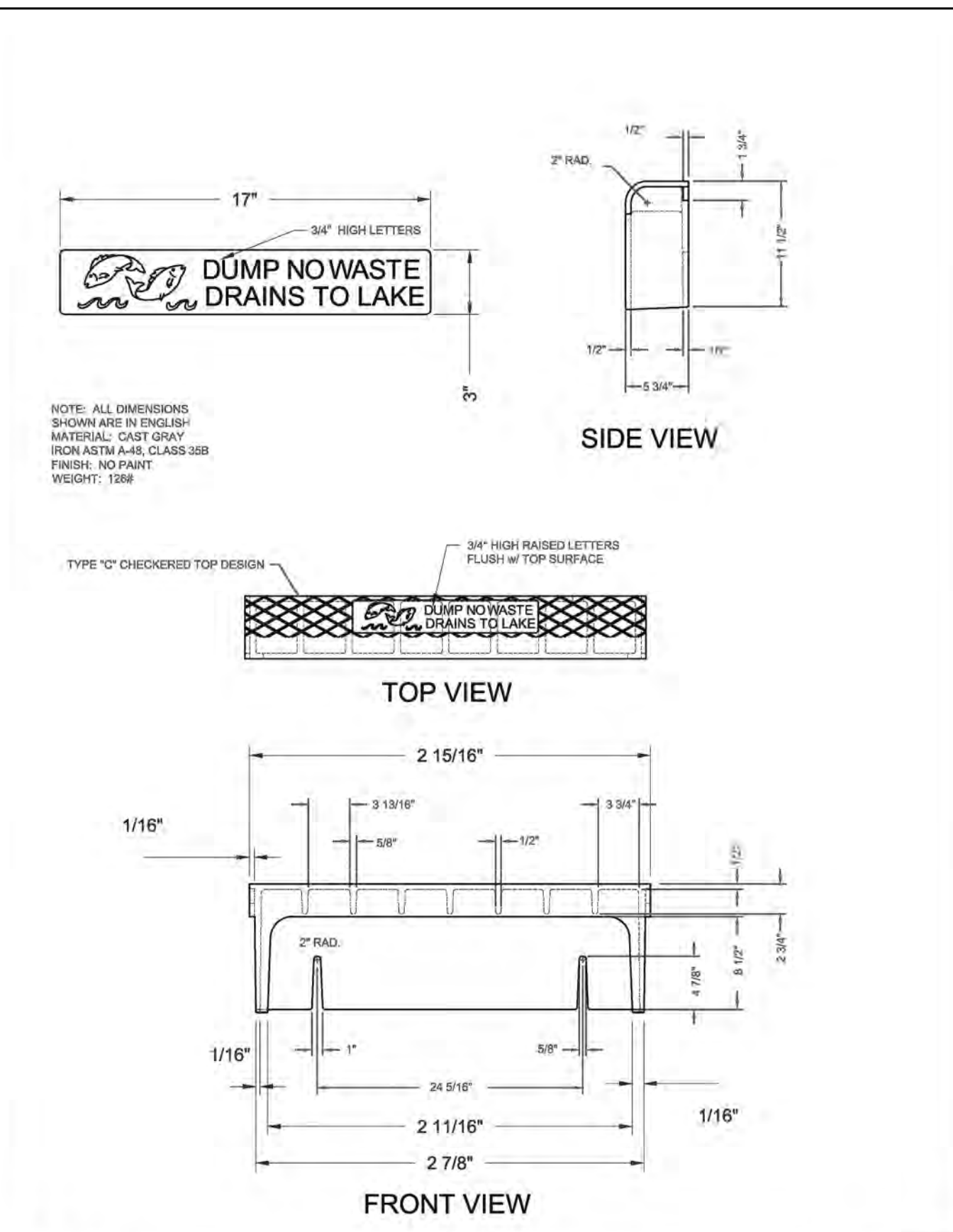
DETAIL - STORM STRUCTURE WITH DRAINTILE FOR ALL NEW STORM STRUCTURES
NOT TO SCALE



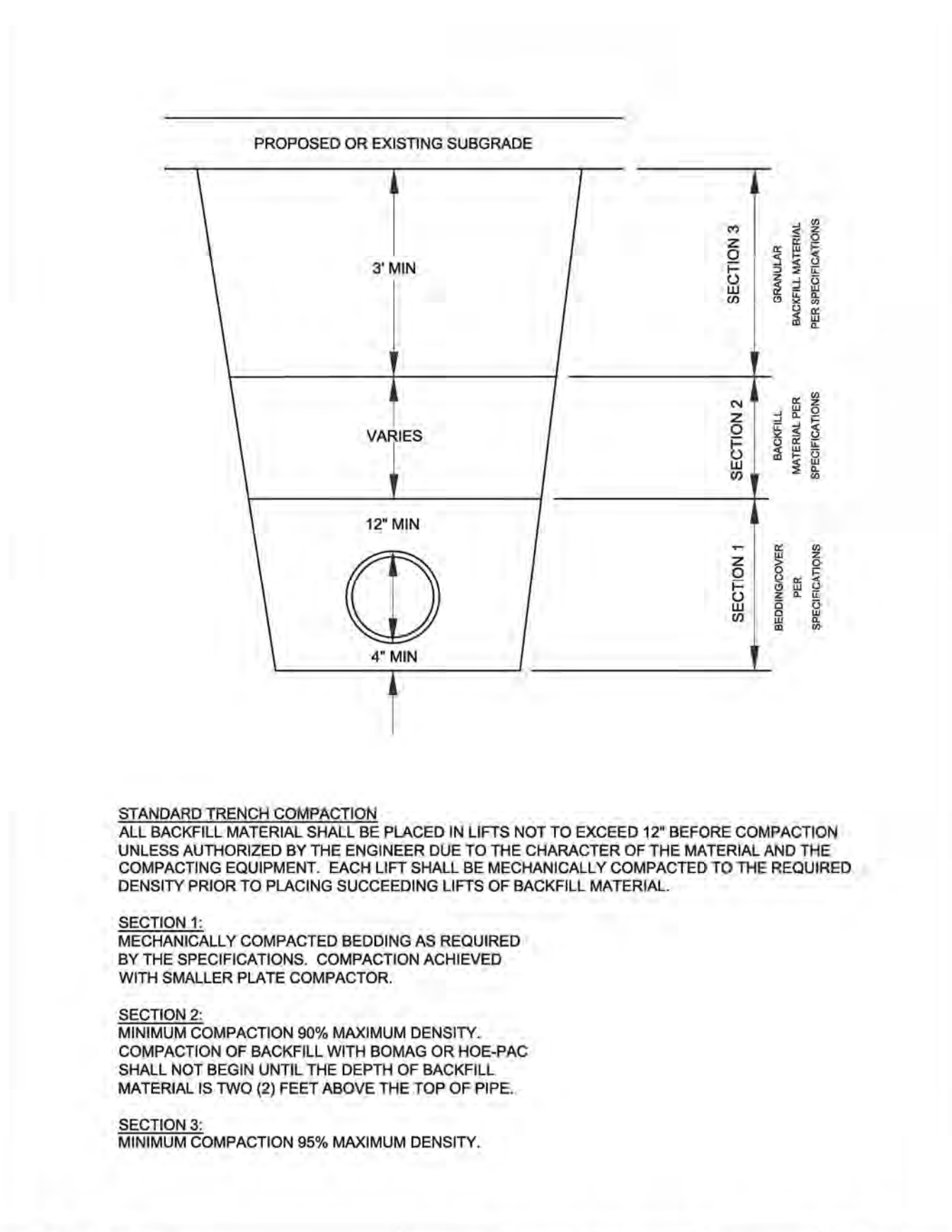
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	STANDARD DETAIL DRAWING	SHEET NO.: 6.01



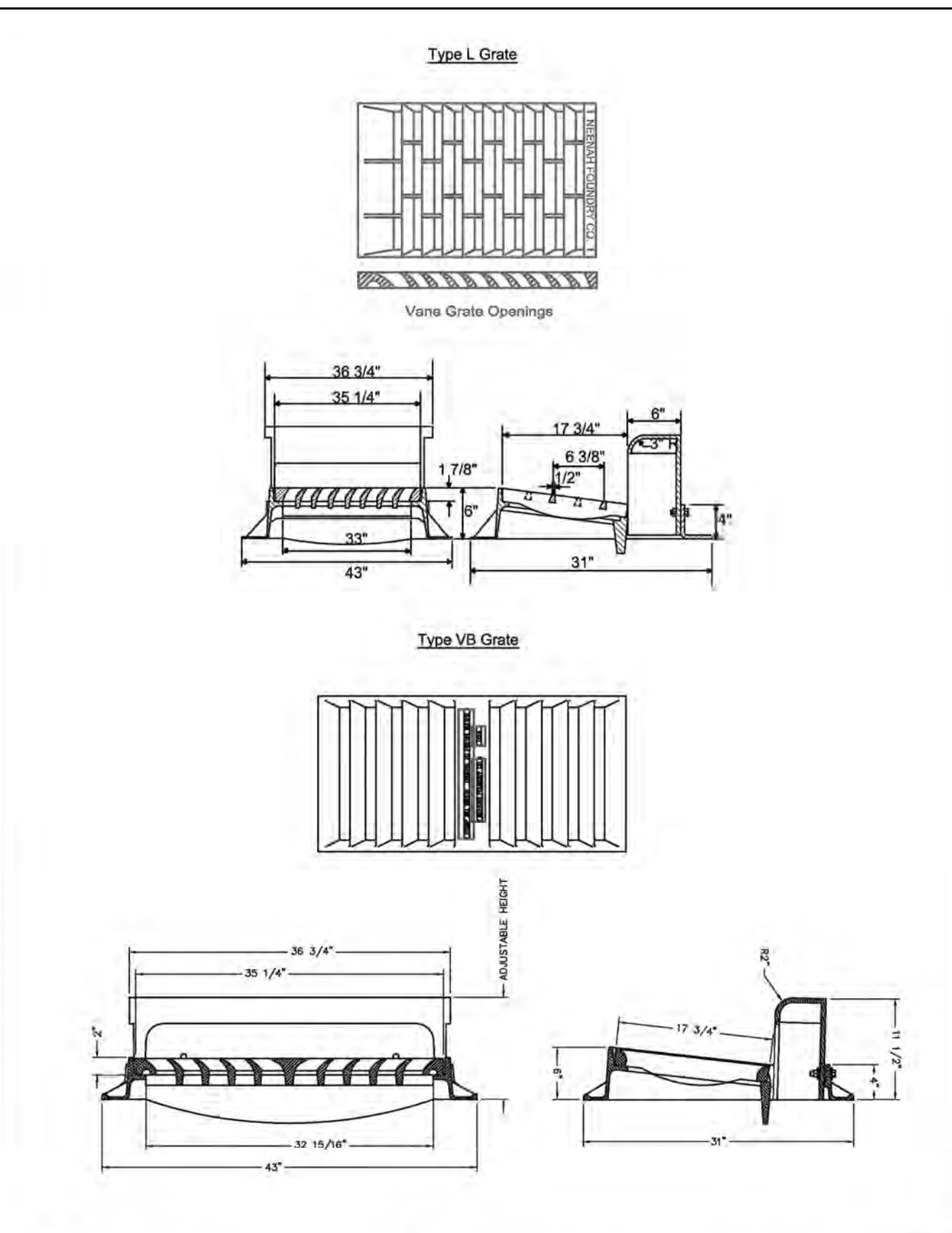
	CLASS III REINFORCED CONCRETE INLET	DATE: 1/29/2019
	STANDARD DETAIL DRAWING	SHEET NO.: 6.07



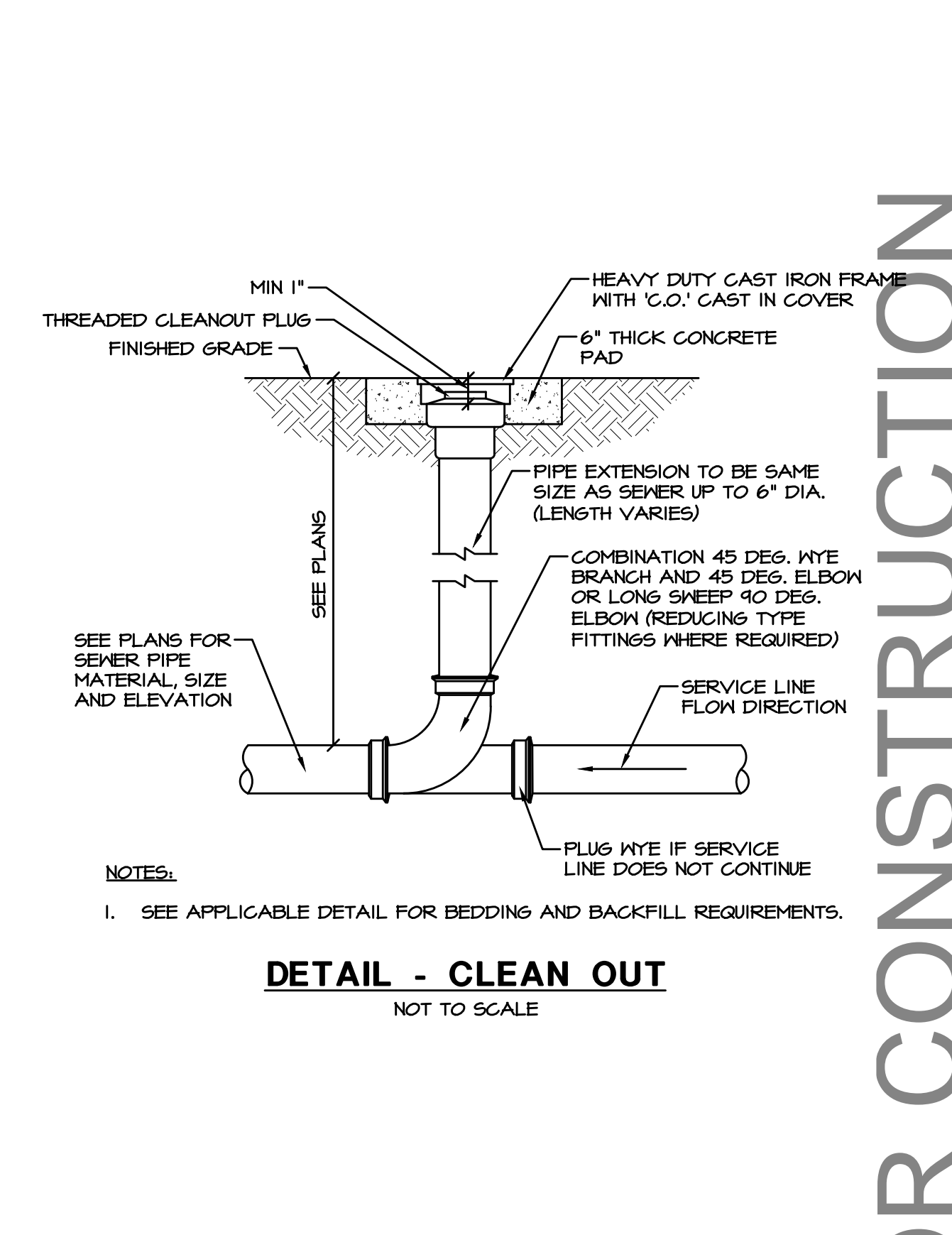
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	STANDARD DETAIL DRAWING	SHEET NO.: 6.02



	SANITARY SEWER & WATER MAIN TRENCH	DATE: 1/24/2014
	STANDARD DETAIL DRAWING	SHEET NO.: 7.01



	INLET COVERS, TYPE H	DATE: 1/31/2019
	STANDARD DETAIL DRAWING	SHEET NO.: 6.03



DETAIL - CLEAN OUT
NOT TO SCALE

	SANITARY SEWER & WATER MAIN TRENCH	DATE: 1/24/2014
	STANDARD DETAIL DRAWING	SHEET NO.: 7.01

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98% CD REVIEW	02/11/21
HVAC REDESIGN	04/30/21
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PROJECT NUMBER: 2020-001

SITE UTILITY DETAILS
C-5.1

WT JOB NUMBER - 2002139C

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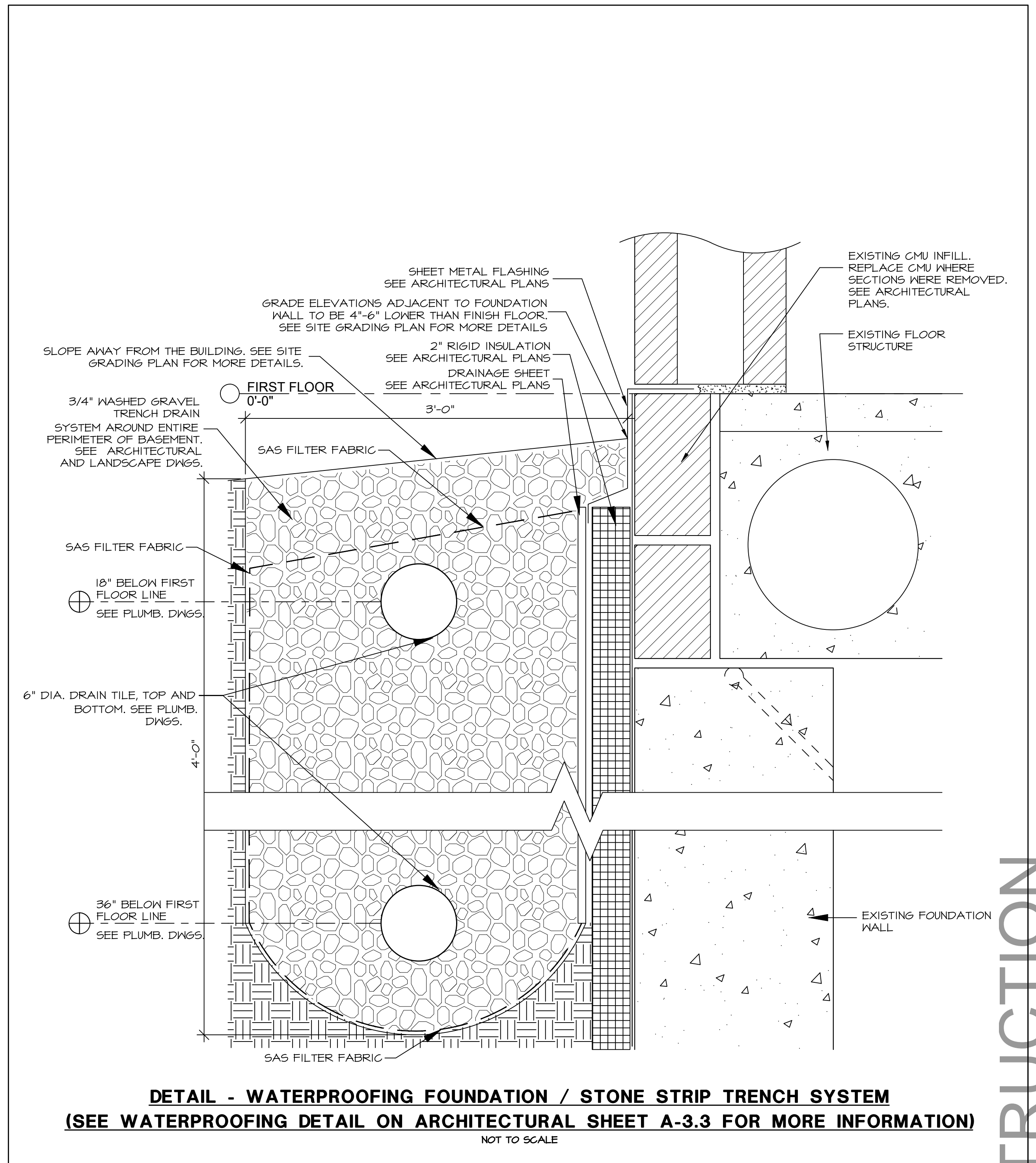
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SITE UTILITY DETAILS
C-5.3



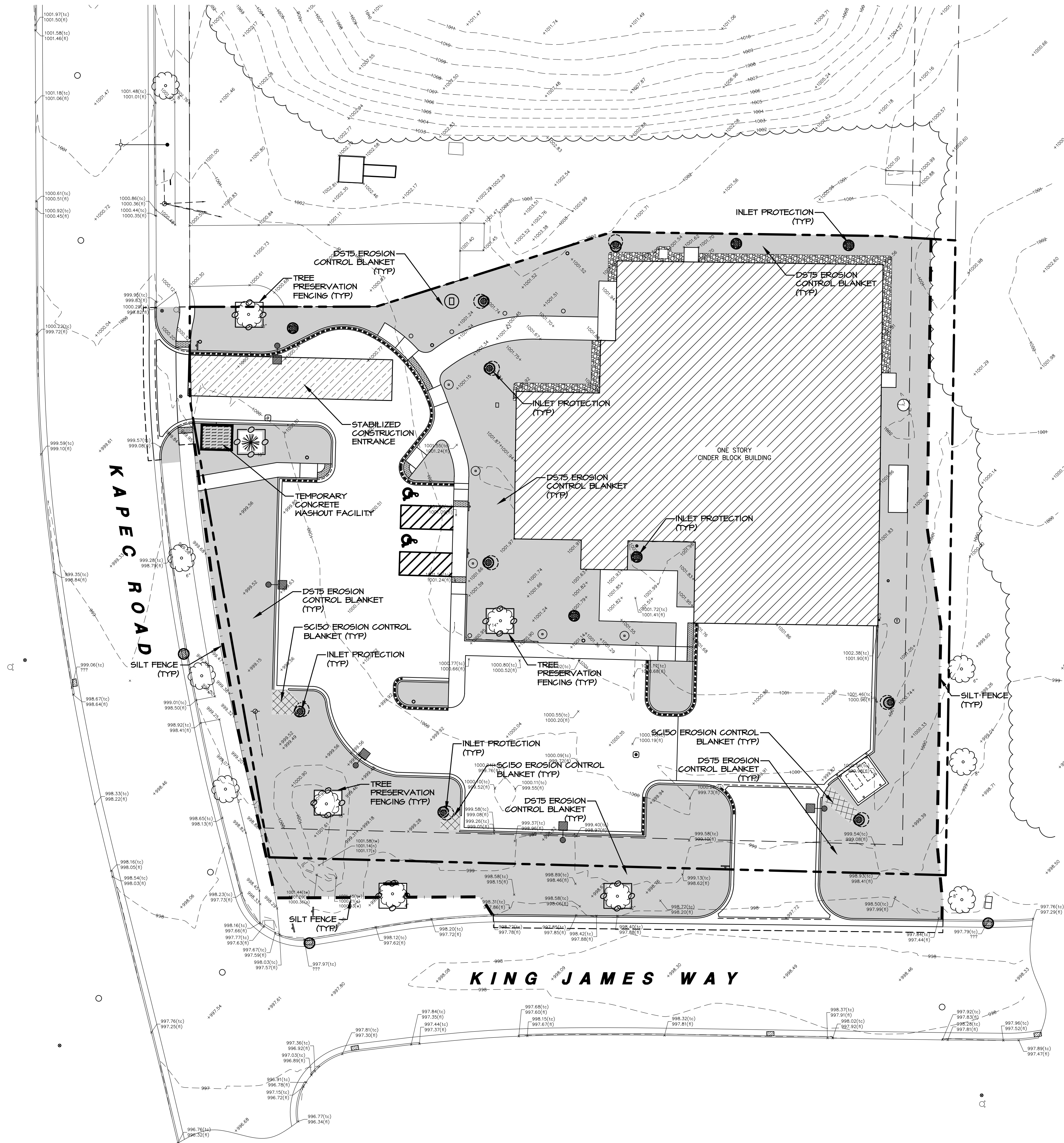
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SWPPP NOTES:

- A. ALL DISTURBED GREEN SPACES ON THE SITE SHALL BE RESTORED ACCORDING TO THE SEED BED PREPARATION SPECIFICATIONS BELOW AND BLANKETED OR MATTED AS SHOWN ON THE PLANS.
- B. TEMPORARY OR PERMANENT STABILIZATION SHALL OCCUR IMMEDIATELY WHENEVER EARTH DISTURBING ACTIVITIES HAVE PERMANENTLY OR TEMPORARILY CEASED ON ANY PORTION OF THE SITE. TEMPORARY STABILIZATION SHALL CONSIST OF THE INSTALLATION OF TEMPORARY SEEDING.
- C. CONTRACTOR TO INSTALL TEMPORARY CONSTRUCTION ENTRANCES AS NECESSARY TO EXCAVATE AREAS AND HAUL SOILS ON-SITE. TRACKING OF DEBRIS ON SITE WILL NOT BE TOLERATED. ANY DEBRIS LEFT OUTSIDE OF THE PROJECT LIMITS MUST BE CLEANED IMMEDIATELY.
- D. EROSION CONTROL BLANKETS AND TURF REINFORCEMENT MATS SHALL BE INSTALLED USING 6" BIO-STAKES AS MANUFACTURED BY NORTH AMERICAN GREEN. METAL STAPLES AND STAPLES ARE PROHIBITED.
- E. CONTRACTOR SHALL PROVIDE ALL NECESSARY MAINTENANCE FOR THE SEDIMENT AND EROSION CONTROL MEASURES FOR THE DURATION OF THE PROJECT.
- F. CONTRACTOR SHALL BE RESPONSIBLE FOR PROVIDING ALL STORMWATER POLLUTION PREVENTION PLAN (SWPPP) INSPECTIONS, INSPECTION REPORTS, CORRECTIVE ACTION FORMS, SWPPP AMENDMENT LOGS, SUBCONTRACTOR CERTIFICATIONS/AGREEMENTS, GRADING AND STABILIZATION ACTIVITIES LOGS, SWPPP TRAINING LOGS, AND DELEGATION OF AUTHORITY FORMS FOR THE DURATION OF THE PROJECT.
- G. CONTRACTOR SHALL PROVIDE COPIES OF ALL SWPPP REPORTS, FORMS, AND LOGS TO THE WT GROUP ONCE THE SITE HAS BEEN STABILIZED. THE CONTRACTOR SHALL MAINTAIN THESE DOCUMENTS FOR A PERIOD OF 3 YEARS FROM THE FINAL STABILIZATION OF THE SITE.
- H. FOLLOWING THE REMOVAL OF THE SILT FENCE, THE CONTRACTOR SHALL RESTORE THE SILT FENCE TRENCH WITH SOD.
- I. CONTRACTOR SHALL INITIATE STABILIZATION OF ALL DISTURBED AREAS WITHIN ONE CALENDAR DAY.

SWPPP LEGEND

- +1000.00 EXISTING SPOT GRADE
- - - - - EXISTING CONTOUR LINE
- - - - - PROPOSED CONTOUR LINE
- ADJUST ADJUST EXISTING RIM ELEVATION
- EXISTING CLOSED MANHOLE
- ⊙ EXISTING OPEN GRATE MANHOLE
- ⊕ EXISTING BEEHIVE GRATE MANHOLE
- ⊘ EXISTING CURB INLET
- ⊙ EXISTING FIRE HYDRANT
- ⊙ EXISTING B-BOX
- ⊙ PROPOSED INLET
- ⊙ PROPOSED OPEN LID MANHOLE / CATCH BASIN
- ⊙ PROPOSED CLOSED LID MANHOLE
- - - - - SILT FENCE
- ⊙ FLEXSTORM CATCH-IT INLET PROTECTION
- ▽ RIP RAP
- ▨ FINE GRADE, FERTILIZE, AND SEED. INSTALL D575 EROSION CONTROL BLANKET WITH 6" BIO-STAKES AS MANUFACTURED BY NORTH AMERICAN GREEN. FOLLOW MANUFACTURER'S INSTALLATION INSTRUCTIONS.
- ▨ TEMPORARY CONCRETE WASHOUT FACILITY
- ▨ STABILIZED CONSTRUCTION ENTRANCE
- ▨ FINE GRADE, FERTILIZE, AND SEED. INSTALL SC150 EROSION CONTROL BLANKET WITH 6" BIO-STAKES AS MANUFACTURED BY NORTH AMERICAN GREEN. FOLLOW MANUFACTURER'S INSTALLATION INSTRUCTIONS.
- ⊙ TREE PRESERVATION FENCING

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PROJECT NUMBER
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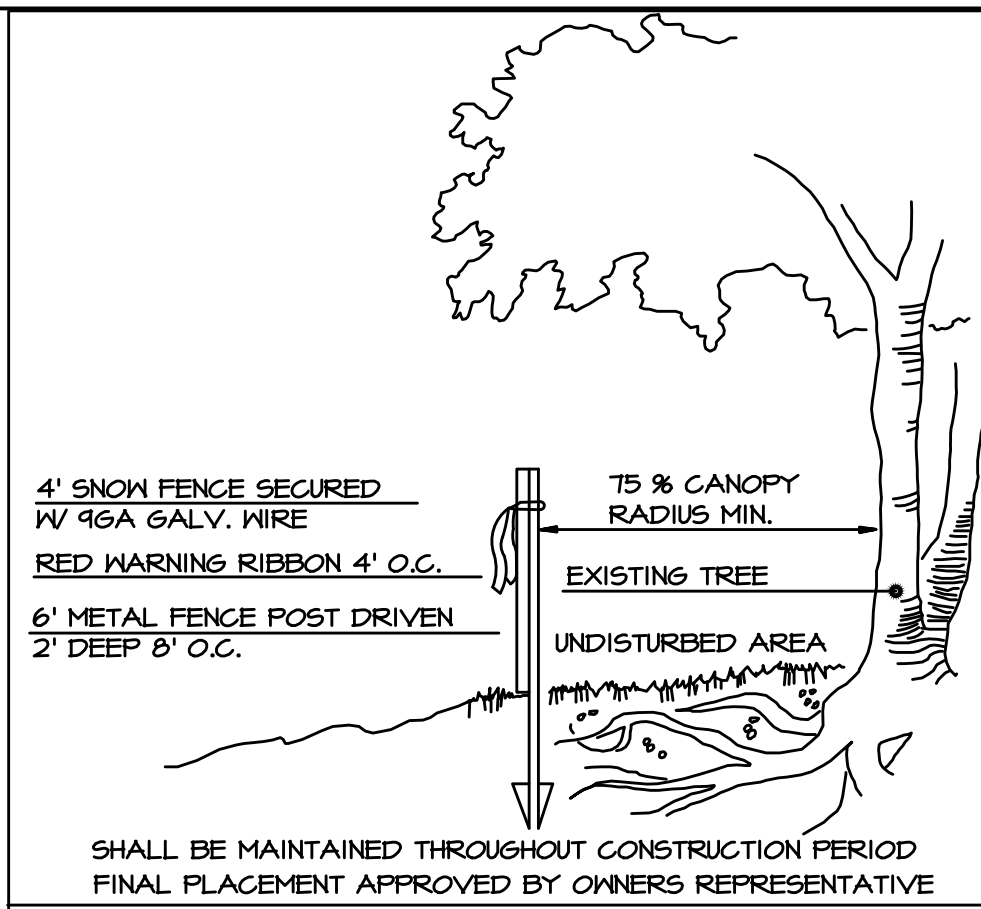
STORMWATER POLLUTION PREVENTION PLAN
C-6.0

1 STORM WATER POLLUTION PREVENTION PLAN
 SCALE 1" = 20'

WT JOB NUMBER - 2002139C

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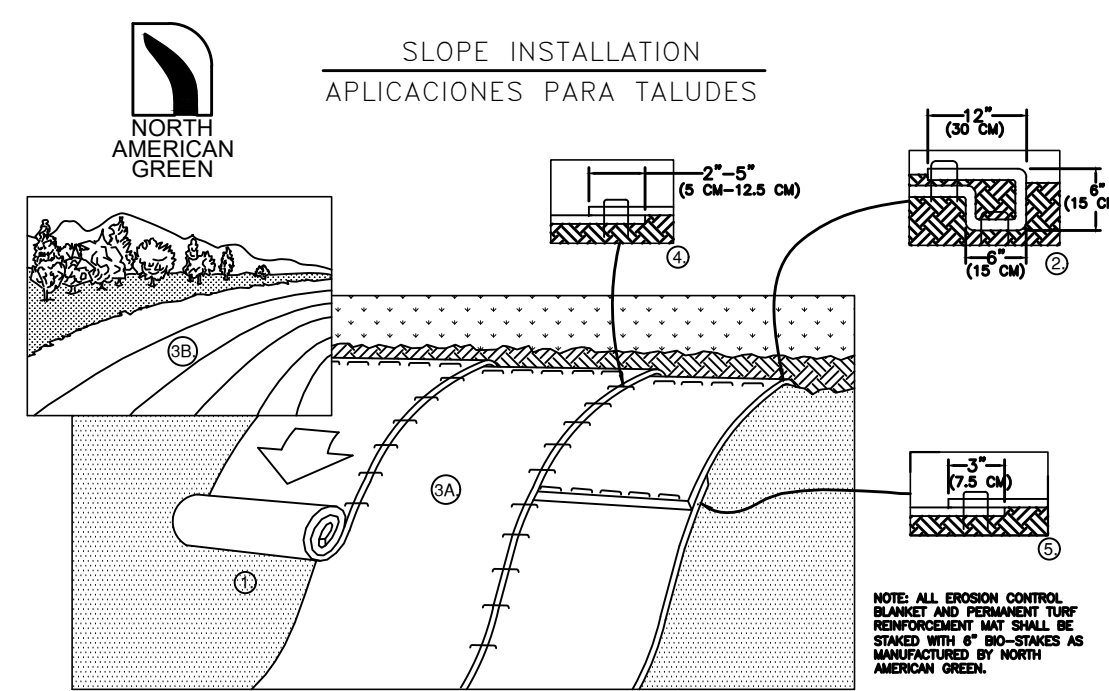
NOT FOR CONSTRUCTION



4' SNOW FENCE SECURED WITH 1/4\"/>

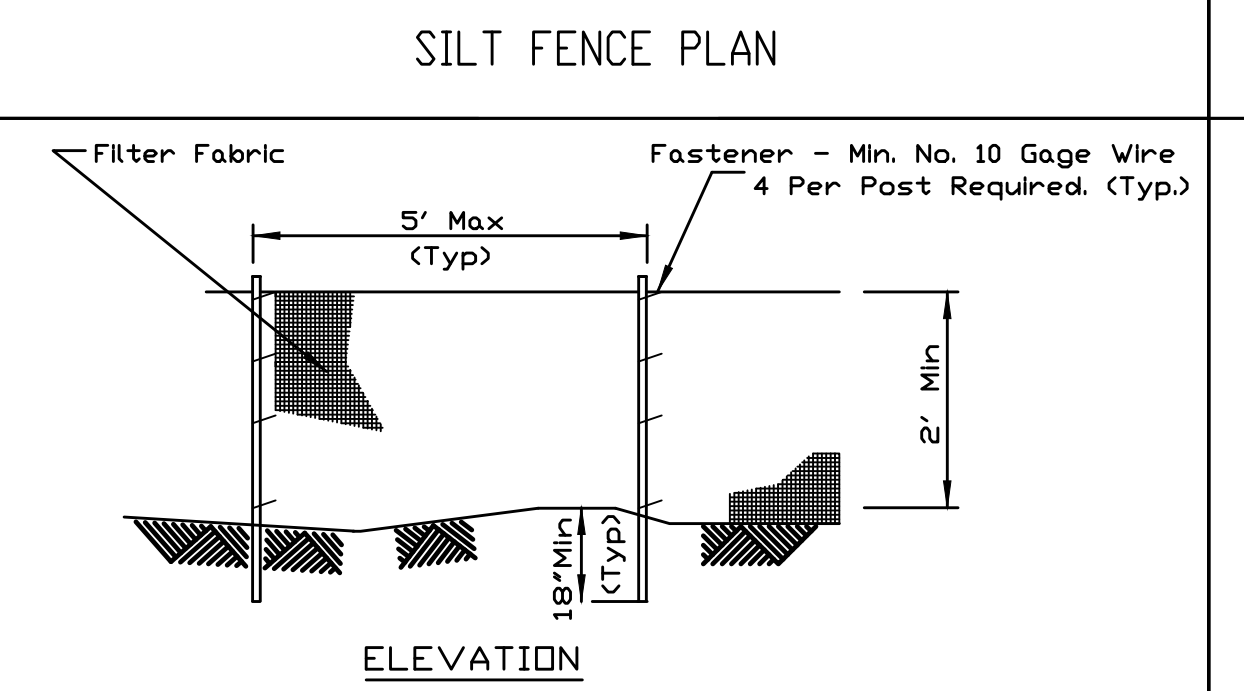
SHALL BE MAINTAINED THROUGHOUT CONSTRUCTION PERIOD. FINAL PLACEMENT APPROVED BY OWNERS REPRESENTATIVE.

DETAIL - ROOT ZONE PROTECTION FENCE
NOT TO SCALE

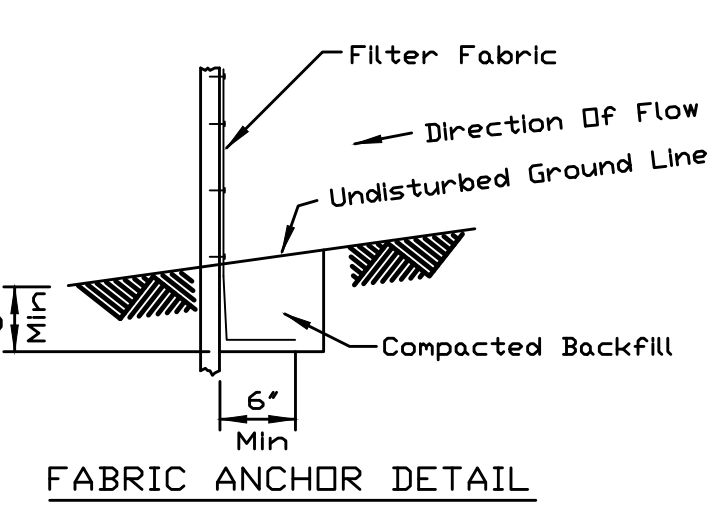


- NOTES:**
- PREPARE SOIL BEFORE INSTALLING BLANKETS, INCLUDING ANY NECESSARY APPLICATION OF LIME, FERTILIZER, AND SEED. NOTE: WHEN USING CELL-0-SEED DO NOT SEED PREPARED AREA. CELL-0-SEED MUST BE INSTALLED WITH PAPER SIDE DOWN.
 - BEGIN AT THE TOP OF THE SLOPE BY ANCHORING THE BLANKET IN A 6\"/>

DETAIL - EROSION CONTROL BLANKET
NOT TO SCALE



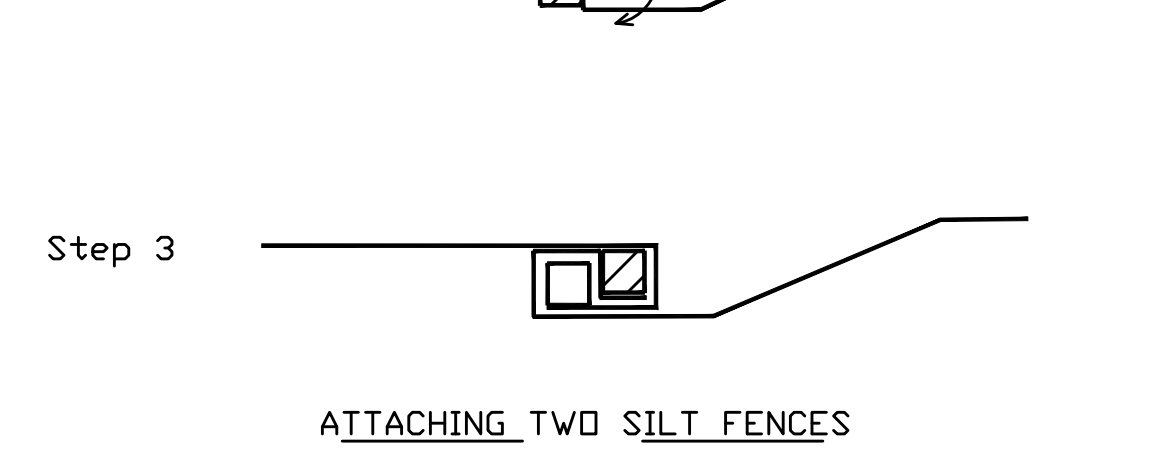
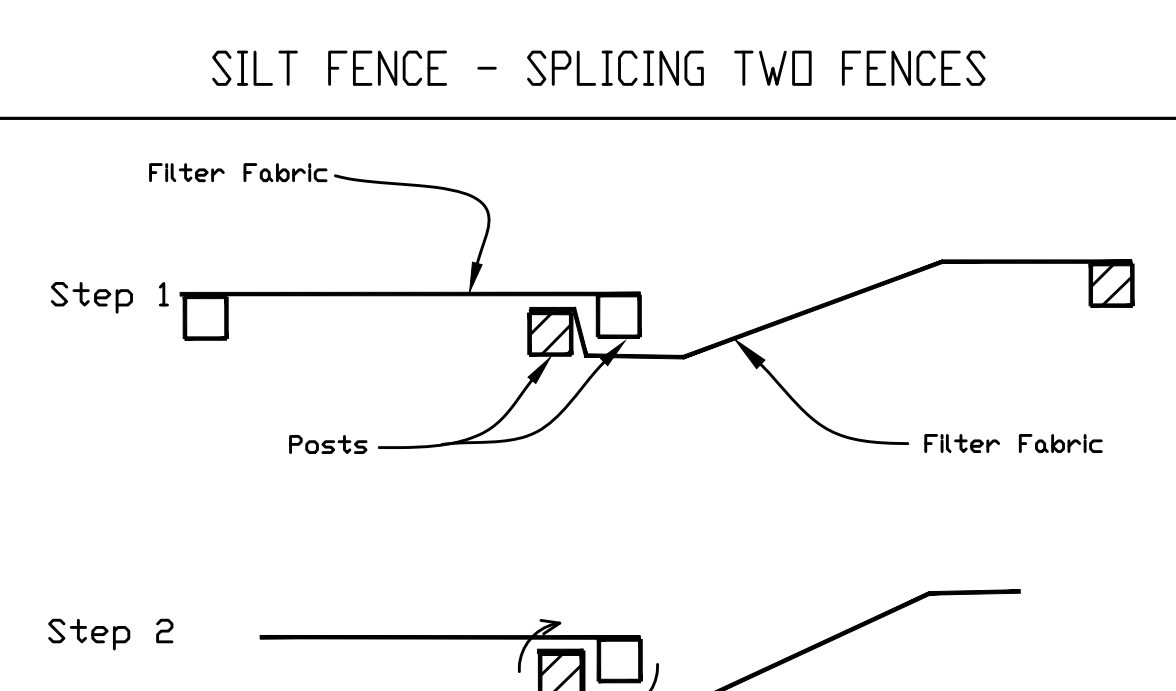
ELEVATION



- NOTES:**
- Temporary sediment fence shall be installed prior to any grading work in the area to be protected. They shall be maintained throughout the construction period and removed in conjunction with the final grading and site stabilization.
 - Filter fabric shall meet the requirements of material specification 592 Geotextile Table 1 or 2, Class I with equivalent opening size of at least 30 for nonwoven and 40 for woven.
 - Fence posts shall be either standard steel post or wood post with a minimum cross-sectional area of 3.0 sq. in.

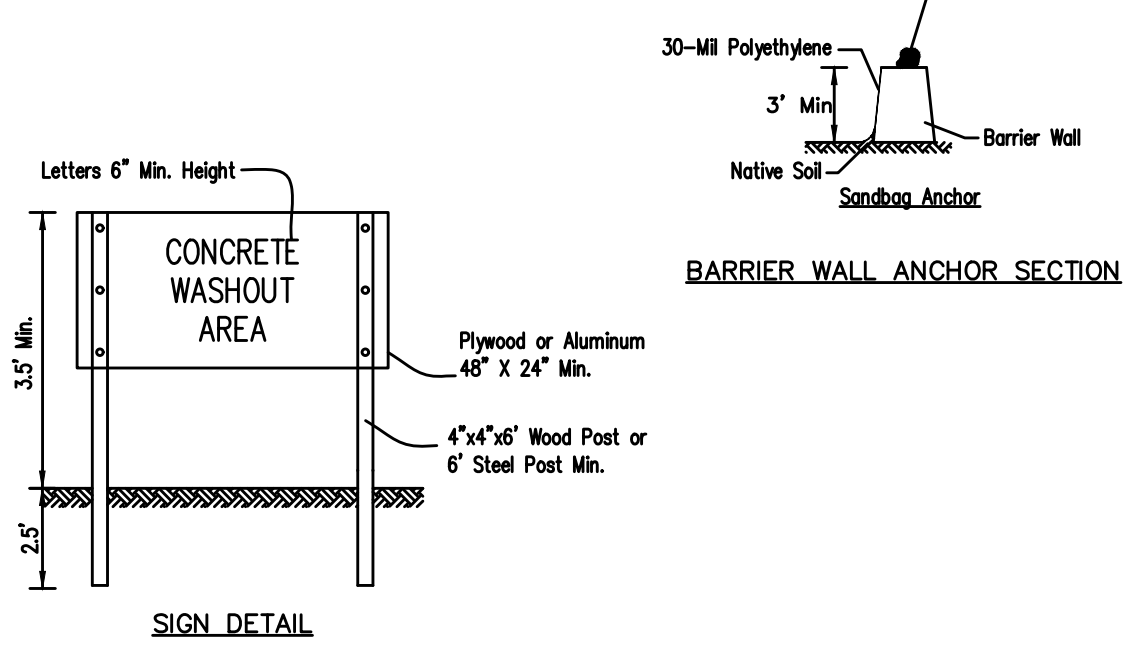
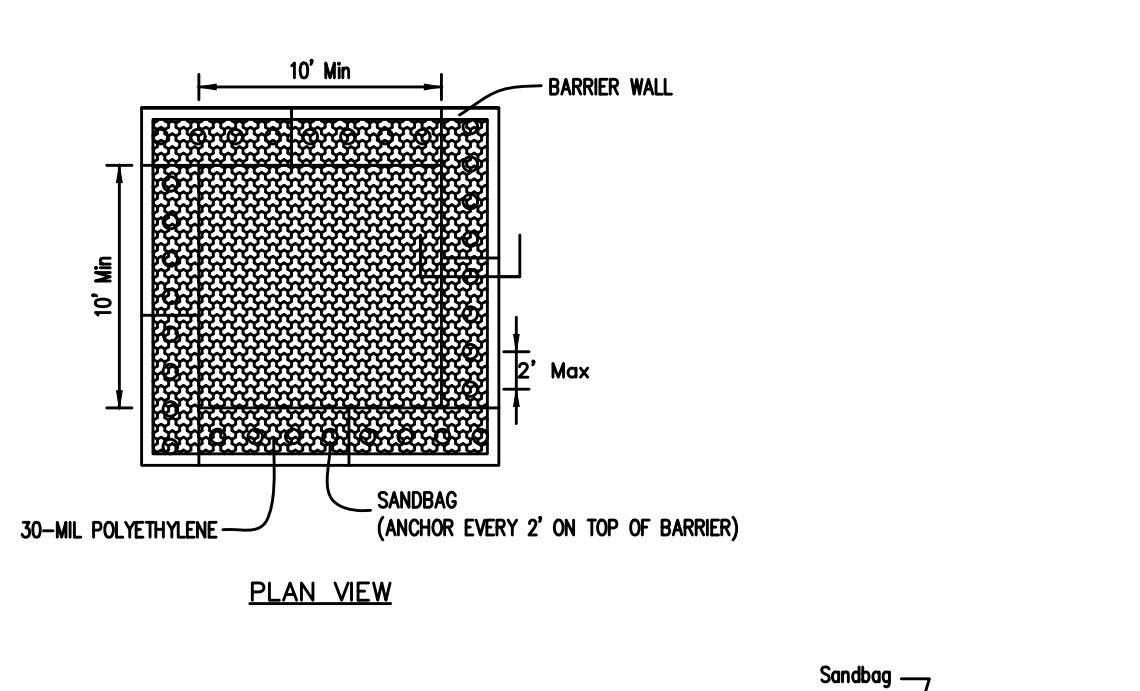
REFERENCE Project _____ Date _____	STANDARD DWG. NO. IUM-620A	REFERENCE Project _____ Date _____	STANDARD DWG. NO. IUM-620B(CW)
Designed _____ Date _____	SHEET 1 OF 2	Designed _____ Date _____	SHEET 1 OF 1
Checked _____ Date _____	DATE 3-16-12	Checked _____ Date _____	DATE 2-06-2012
Approved _____ Date _____		Approved _____ Date _____	

DETAIL - SILT FENCE
NOT TO SCALE



- Place the end post of the second fence inside the end post of the first fence.
- Rotate both posts at least 180 degrees in a clockwise direction to create a tight seal with the fabric material.
- Cut the fabric near the bottom of the stakes to accommodate the 6\"/>

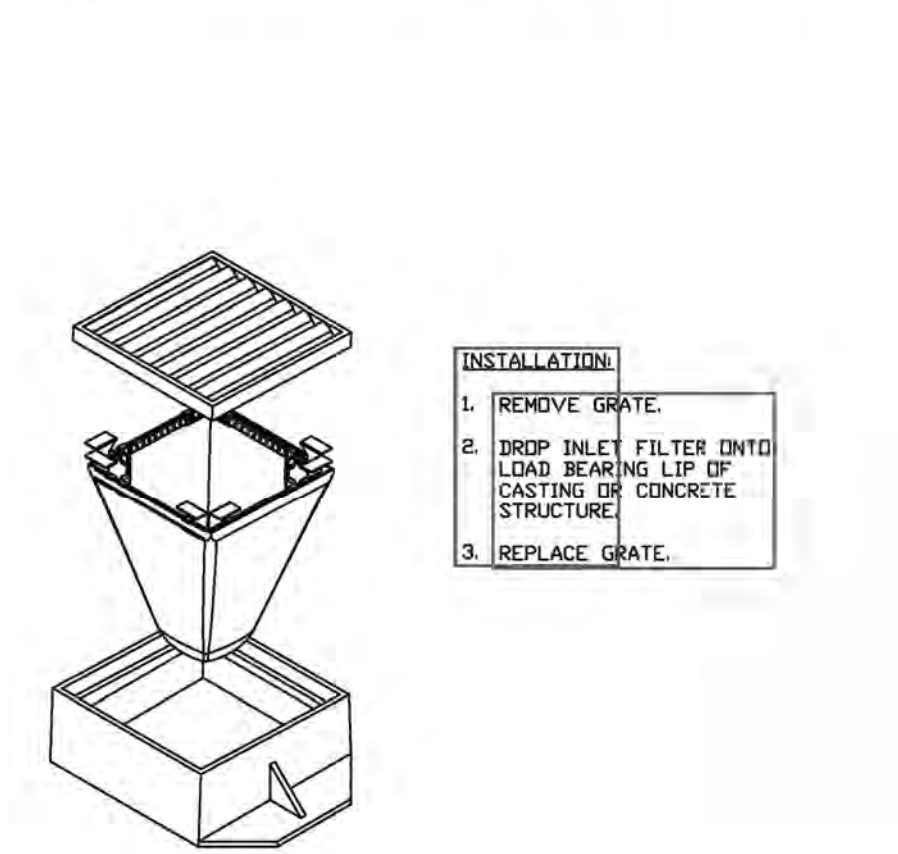
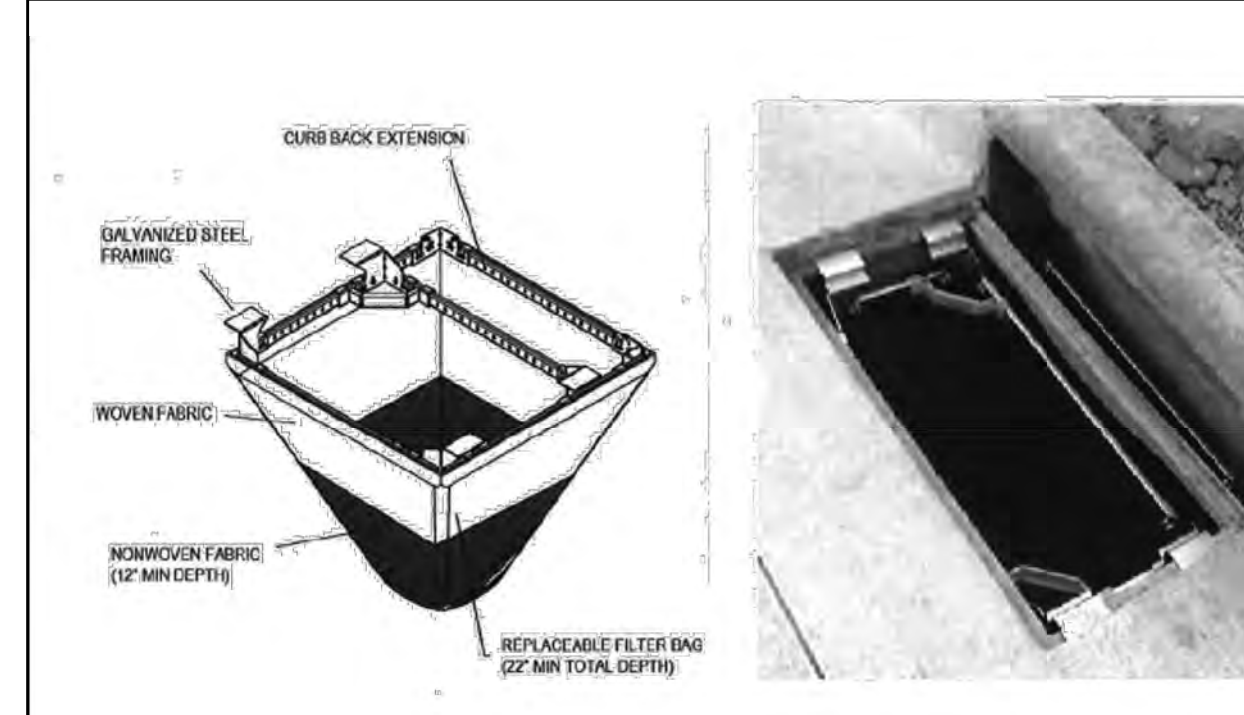
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Designed _____ Date _____	SHEET 1 OF 1
Checked _____ Date _____	DATE 2-06-2012
Approved _____ Date _____	



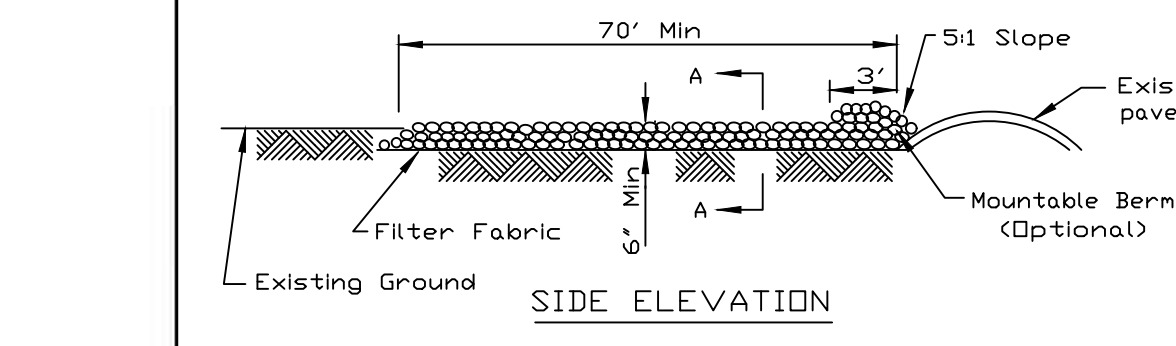
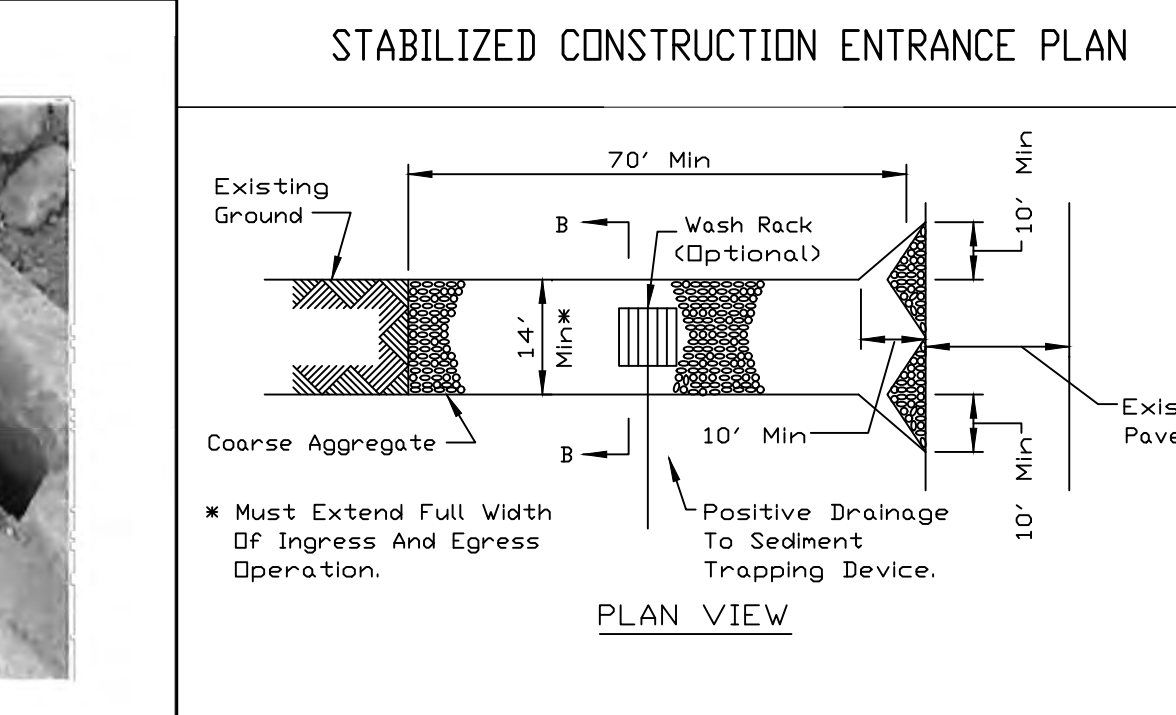
- NOTES:**
- Maintaining temporary concrete washout facilities shall include removing and disposing of hardened concrete and/or slurry and returning the facilities to a functional condition.
 - Facility shall be cleaned or reconstructed in a new area once washout becomes two-birds fall.

REFERENCE Project _____ Date _____	STANDARD DWG. NO. IUM-620B(CW)
Designed _____ Date _____	SHEET 1 OF 1
Checked _____ Date _____	DATE 2-06-2012
Approved _____ Date _____	

CONCRETE WASHOUT FACILITY



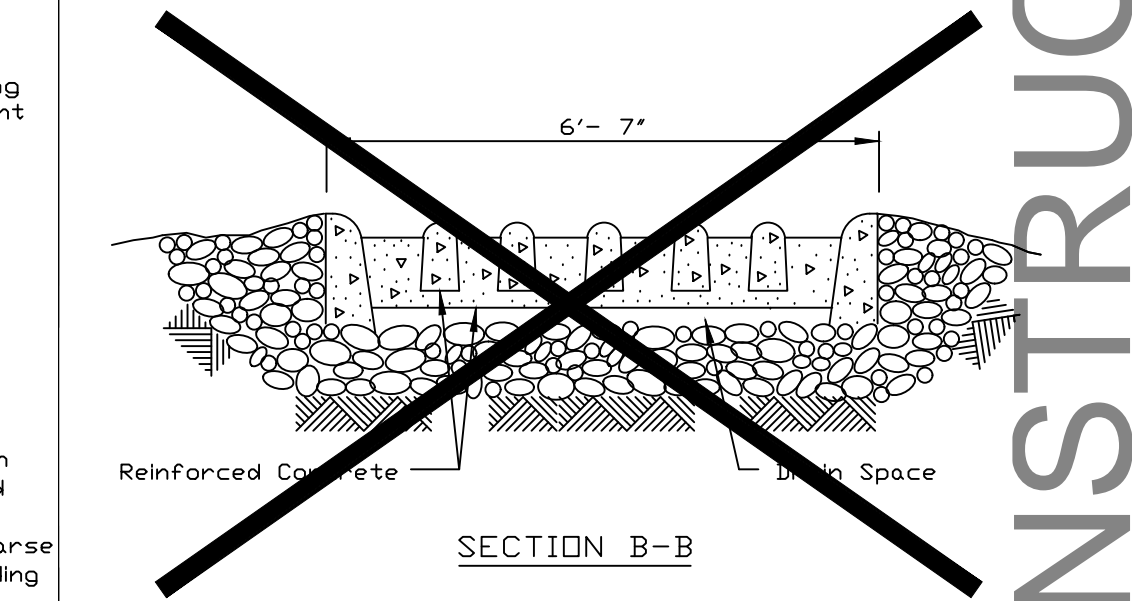
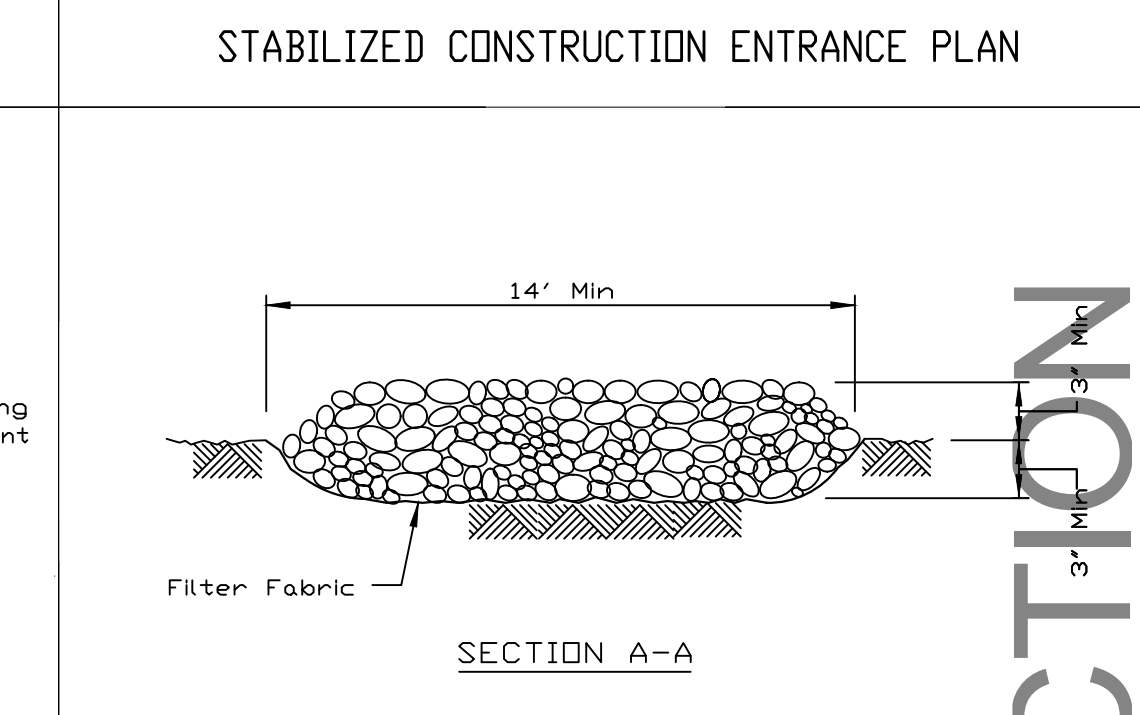
THE CITY OF Fitchburg	FRAMED INLET PROTECTION	DATE: 2/8/2019
	STANDARD DETAIL DRAWING	SHEET NO.: 2.01



- NOTES:**
- Filter fabric shall meet the requirements of material specification 592 GEOTEXTILE, Table I or 2, Class I, II or IV and shall be placed over the cleared area prior to the placing of rock.
 - Rock or reclaimed concrete shall meet one of the following IDOT coarse aggregate gradation, CA-1, CA-2, CA-3 or CA-4 and be placed according to construction specification 25 RDCKFILL using placement Method 1 and Class III compaction.
 - Any drainage facilities required because of washing shall be constructed according to manufacturers specifications.
 - If wash racks are used they shall be installed according to the manufacturers specifications.

REFERENCE Project _____ Date _____	U.S. DEPARTMENT OF AGRICULTURE SOIL CONSERVATION SERVICE ILLINOIS	STANDARD DWG. NO. IL-630
Designed _____ Date _____		SHEET 1 OF 2
Checked _____ Date _____		DATE 8-18-94
Approved _____ Date _____		

DETAIL - STABILIZED CONSTRUCTION ENTRANCE
NOT TO SCALE



REFERENCE Project _____ Date _____	U.S. DEPARTMENT OF AGRICULTURE SOIL CONSERVATION SERVICE ILLINOIS	STANDARD DWG. NO. IL-630
Designed _____ Date _____		SHEET 2 OF 2
Checked _____ Date _____		DATE 8-18-94
Approved _____ Date _____		

DETAIL - STABILIZED CONSTRUCTION ENTRANCE
NOT TO SCALE

WT JOB NUMBER - 2002139C

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DATE: 5/24/2021 4:56:58 PM
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STORMWATER POLLUTION PREVENTION DETAILS
C-6.1

NOT FOR CONSTRUCTION

BOUNDARY & TOPOGRAPHIC SURVEY

LOTS ONE OF CERTIFIED SURVEY MAP NO. 15368, RECORDED IN THE DANE COUNTY REGISTER OF DEEDS OFFICE IN VOLUME 110 OF CERTIFIED SURVEY MAPS, PAGES 86-88, AS DOCUMENT NO. 5567984, IN THE CITY OF FITCHBURG, DANE COUNTY, WISCONSIN.



LOCATION MAP

WT GROUP
Engineering with Precision, Peace and Passion.
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www.wtgroup.com
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Engineering • Design • Consulting

EMERGENCY MANAGEMENT FACILITY
5415 KING JAMES WAY
FITCHBURG, WISCONSIN

ISSUE

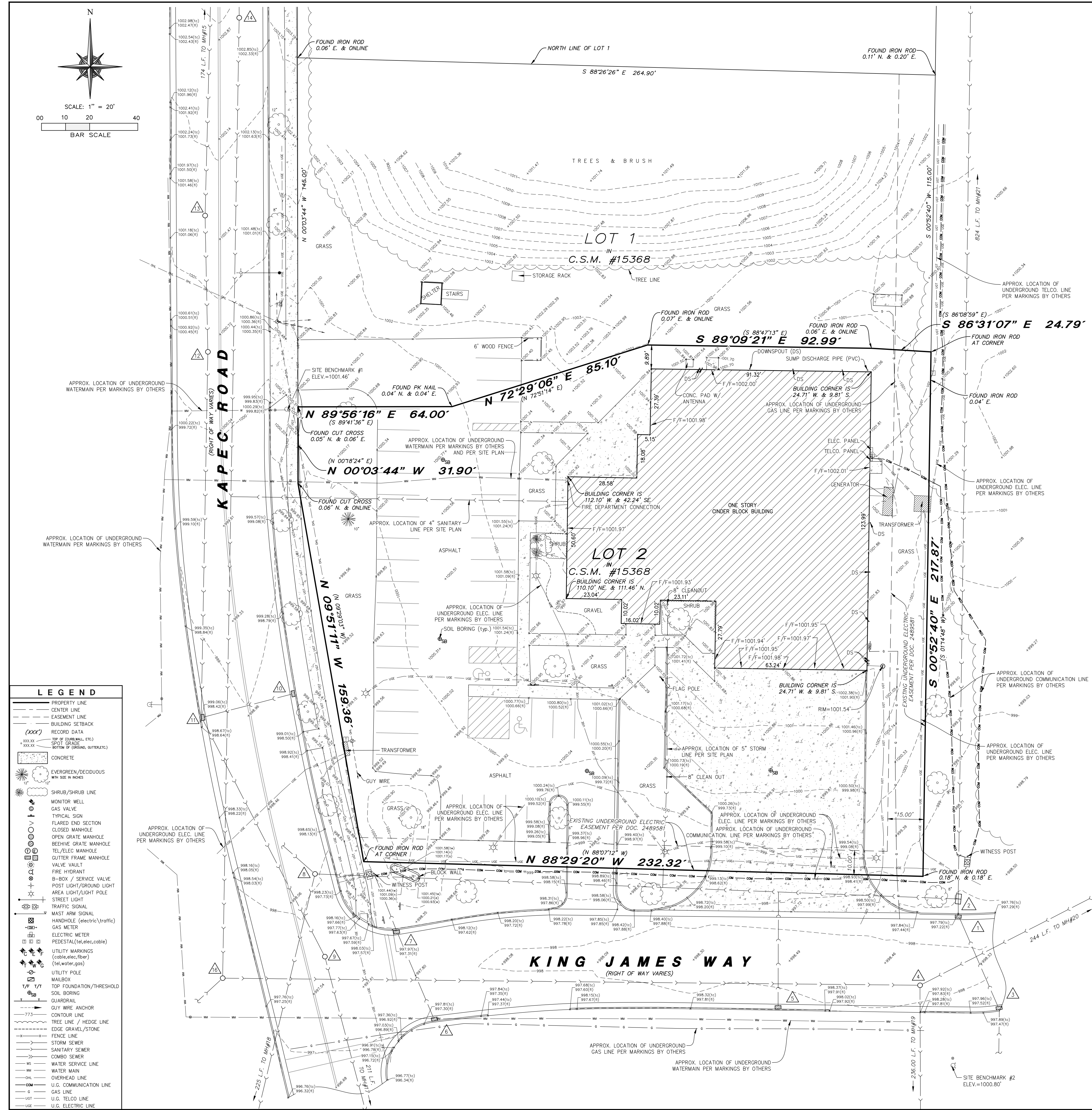
TO	DATE
CLIENT	9/15/20
CLIENT	9/17/20
CLIENT	9/23/20
CLIENT	10/7/20
CLIENT	2/3/21

CHECK-FIRM
DRAWN-REM
JOB: 2002193S

SUR-1
SHEET 1 OF 1
BOUNDARY & TOPOGRAPHIC SURVEY

NOT FOR CONSTRUCTION

AQUATIC \ CIVIL \ MECHANICAL \ PLUMBING \ ELECTRICAL \ TELECOMMUNICATION \ STRUCTURAL \ ACCESSIBILITY CONSULTING \ DESIGN & PROGRAM MANAGEMENT \ LAND SURVEY



- | | |
|--|--|
| 1. RIM=997.22' (STORM)
36"x18" CONCRETE STRUCTURE
INV=993.85' (18" RCP N/SSE) | 12. RIM=1000.57' (STORM)
48" CONCRETE STRUCTURE
INV=995.85' (30" RCP N)
INV=993.23' (30" RCP S) |
| 2. RIM=997.95' (STORM)
12"x12" CONCRETE STRUCTURE
INV=991.80' (48"x76" RCP N)
INV=993.55' (18" RCP S)
INV=991.80' (53"x83" RCP W) | 13. RIM=1001.58' (STORM)
48" CONCRETE STRUCTURE
INV=997.28' (30" RCP N/S) |
| 3. RIM=997.10' (STORM)
36"x18" CONCRETE STRUCTURE
INV=994.79' (18" RCP NNW)
INV=994.79' (15" PVC S) | 14. RIM=1002.81' (SANITARY)
48" CONCRETE STRUCTURE
INV=996.35' (8" PVC N/S) |
| 4. RIM=998.34' (SANITARY)
48" CONCRETE STRUCTURE
INV=993.34' (12" RCP NE/S)
INV=993.66' (8" PVC W) | 15. RIM=1005.42' (STORM)
60" CONCRETE STRUCTURE
INV=999.57' (30" RCP N/S)
INV=999.72' (18" RCP E)
INV=999.87' (18" RCP W) |
| 5. RIM=997.65' (STORM)
36"x18" CONCRETE STRUCTURE
INV=992.90' (18" RCP N) | 16. RIM=998.11' (SANITARY)
84" CONCRETE STRUCTURE
INV=994.67' (8" PVC N/E/SW) |
| 6. RIM=997.26' (STORM)
36"x18" CONCRETE STRUCTURE
INV=993.61' (12" RCP NNW) | 17. RIM=995.13' (STORM)
84" CONCRETE STRUCTURE
INV=987.18' (36" RCP ENE)
INV=979.93' (42" RCP SSE/NNW) |
| 7. RIM=997.31' (STORM)
36"x18" CONCRETE STRUCTURE
INV=992.54' (12" RCP NNW/SSE) | 18. RIM=996.01' (STORM)
CONCRETE STRUCTURE
UNABLE TO DETERMINE SIZE
INV=987.46' (60" RCP NE/SW)
INV=989.21' (24" RCP ESE/CAPPED) |
| 8. RIM=998.05' (STORM)
CONCRETE STRUCTURE
UNABLE TO DETERMINE SIZE
INV=988.55' (53"x83" RCP E)
INV=988.55' (66" RCP SW)
INV=988.65' (36" RCP NW CAPPED) | 19. RIM=997.33' (SANITARY)
48" CONCRETE STRUCTURE
INV=992.28' (15" PVC E)
INV=992.28' (12" RCP N) |
| 9. RIM=997.87' (STORM)
60" CONCRETE STRUCTURE
INV=980.45' (42" RCP SSE/NW) | 20. RIM=999.10' (SANITARY)
48" CONCRETE STRUCTURE
INV=994.46' (12" RCP NNE/SW)
INV=995.72' (4" PVC E) |
| 10. RIM=998.51' (STORM)
36"x18" CONCRETE STRUCTURE
INV=992.68' (18" RCP WSW) | 21. RIM=1010.75' (STORM)
84" CONCRETE STRUCTURE
INV=996.20' (48" RCP N)
INV=996.20' (48"x76" RCP S) |
| 11. RIM=998.42' (STORM)
72" CONCRETE STRUCTURE
INV=990.23' (30" RCP N)
INV=990.47' (18" RCP ENE)
INV=981.23' (42" RCP SE) | |

- NOTES:
- BENCHMARK #1 - SET CROSS ON HYDRANT ON THE EAST SIDE OF KAPEC ROAD, 8' SOUTH OF THE ENTRANCE AS SHOWN. ELEVATION=1001.46' (NAVD88)
 - BENCHMARK #2 - TAG BOLT ON HYDRANT ON THE SOUTH SIDE OF KING JAMES WAY, 91' SOUTHEAST OF LIGHT POLE ON THE EAST SIDE OF ENTRANCE & 30' SOUTHWEST OF EXISTING MH#3. ELEVATION=1000.80' (NAVD88)
 - PARCEL NUMBER: 060906399652
 - THE LOCATION OF UNDERGROUND UTILITIES WAS DETERMINED BY FIELD OBSERVATION AND VISIBLE MARKINGS ONLY.
 - FIELD WORK COMPLETED ON SEPTEMBER 11TH, 2020.
 - SURVEY PREPARED WITHOUT THE AID OF A TITLE REPORT, REFER TO A CURRENT TITLE REPORT, DEED AND LOCAL CODES FOR ANY EASEMENT, BUILDING SETBACKS AND OTHER LOCAL RESTRICTIONS NOT SHOWN HEREON. DESCRIPTION PER WARRANTY DEED DOC.#5569234
 - SURVEY PREPARED FOR: PRAIRIE FORGE GROUP
 - BASIS OF BEARINGS IS TRUE NORTH BASED ON ILLINOIS STATE PLANE COORDINATE SYSTEM, WISCONSIN SOUTH 4803 ZONE.
 - ANY DISCREPANCIES FOUND WITHIN THIS DOCUMENT NEED TO BE REPORTED TO THE SURVEYOR AS SOON AS POSSIBLE.

STATE OF ILLINOIS)
COUNTY OF COOK) SS

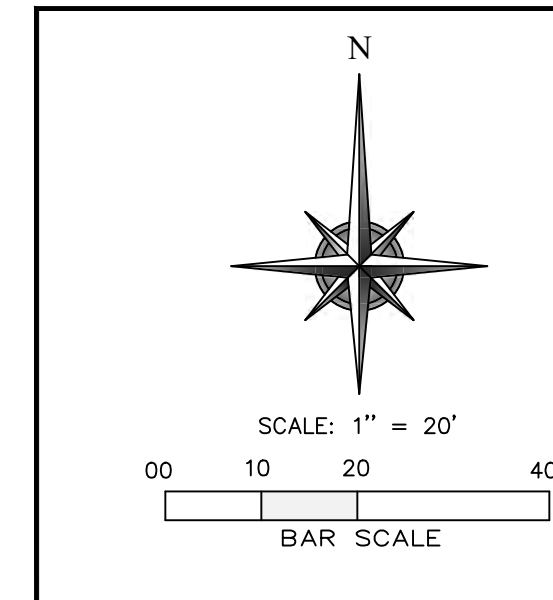
WE THE W-T GROUP DO HEREBY DECLARE THAT WE HAVE SURVEYED THE ABOVE DESCRIBED PROPERTY AND THAT THIS PLAT IS A CORRECT REPRESENTATION OF SAID SURVEY. THIS PROFESSIONAL SERVICE CONFORMS TO THE CURRENT WISCONSIN MINIMUM STANDARDS FOR A PROPERTY AND TOPOGRAPHIC SURVEY.

GIVEN UNDER OUR HAND AND SEAL THIS 3rd DAY OF FEBRUARY 2021 AT HOFFMAN ESTATES, ILLINOIS.

THE W-T GROUP, LLC
Franjo I. Matcic
FRANJO I. MATCIC - #S-2933-008
WISCONSIN PROFESSIONAL LAND SURVEYOR



- LEGEND**
- PROPERTY LINE
 - CENTER LINE
 - EASEMENT LINE
 - BUILDING SETBACK
 - RECORD DATA
 - TOP OF CURB/WALL, ETC.
 - SPOT GRADE
 - BOTTOM OF (ORIGINAL, OUTTRICK)
 - CONCRETE
 - EVERGREEN/DECIDUOUS WITH SIZE IN NOTES
 - SHRUB/SHRUB LINE
 - MONITOR WELL
 - GAS VALVE
 - TYPICAL SIGN
 - FLARED END SECTION
 - CLOSED MANHOLE
 - OPEN GRATE MANHOLE
 - BEDHIE GRATE MANHOLE
 - TEL/ELEC MANHOLE
 - GUTTER FRAME MANHOLE
 - VALVE VAULT
 - FIRE HYDRANT
 - B-BOX / SERVICE VALVE
 - POST LIGHT/GROUND LIGHT
 - AREA LIGHT/LIGHT POLE
 - STREET LIGHT
 - TRAFFIC SIGNAL
 - MAST ARM SIGNAL
 - HANDHOLE (electric/traffic)
 - GAS METER
 - ELECTRIC METER
 - PEDESTAL (tel,elec,cable)
 - UTILITY MARKINGS (cable,elec,fiber)
 - (tel,water,gas)
 - UTILITY POLE
 - MAILBOX
 - TOP FOUNDATION/THRESHOLD
 - SOIL BORING
 - GUARDRAIL
 - GUY WIRE ANCHOR
 - COURT LINE
 - TREE LINE / HEDGE LINE
 - EDGE GRAVEL/STONE
 - FENCE LINE
 - STORM SEWER
 - SANITARY SEWER
 - COMBO SEWER
 - WATER SERVICE LINE
 - WATER MAIN
 - OVERHEAD LINE
 - U.G. COMMUNICATION LINE
 - GAS LINE
 - U.G. TELCO LINE
 - U.G. ELECTRIC LINE

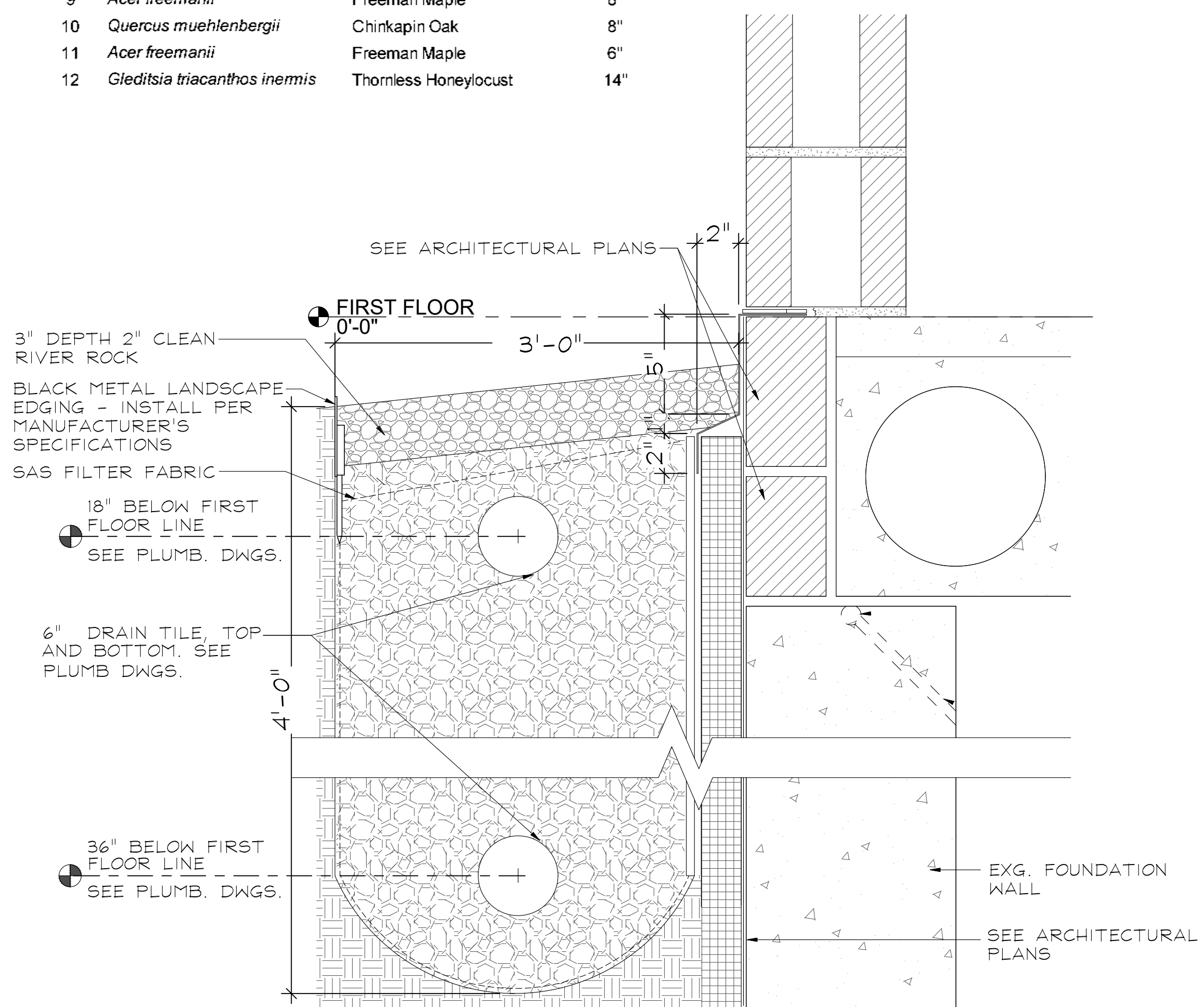
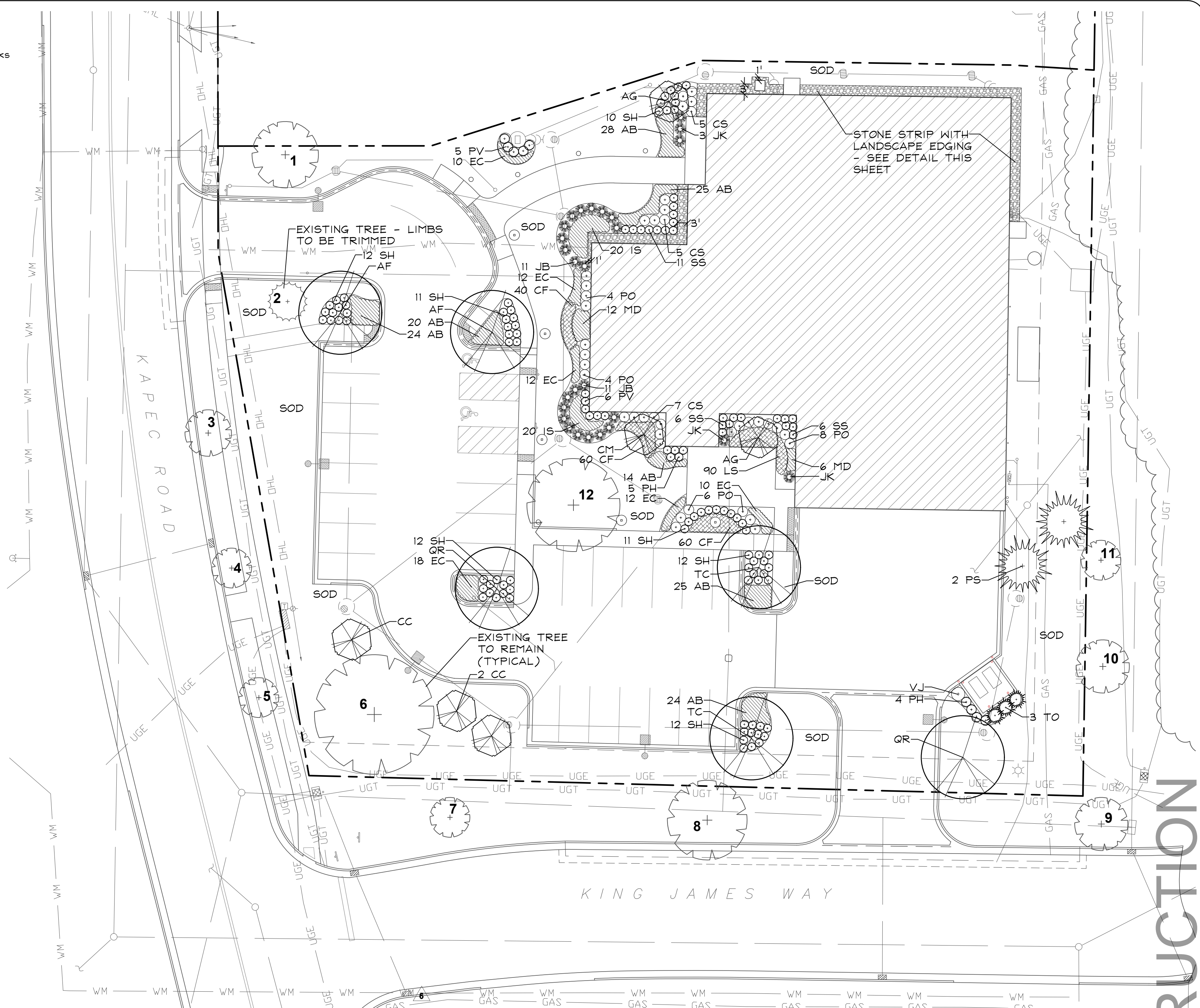


PROPOSED PLANT LIST

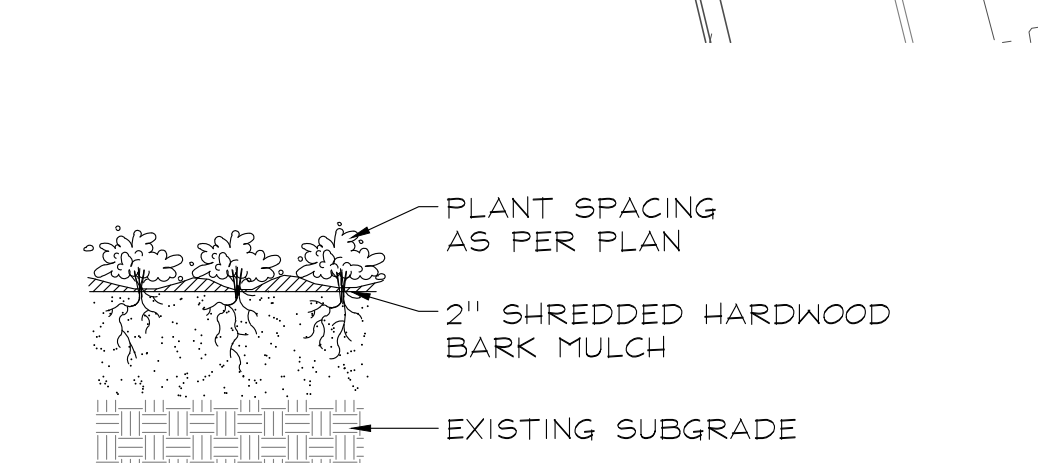
Key	Qty	Botanical/Common Name	Size	Remarks	Key	Qty	Botanical/Common Name	Size	Remarks
SHADE TREES					ORNAMENTAL GRASSES				
AF	2	Acer x freemanii 'Nanna' MARMO FREEMAN MAPLE	2 1/2" Cal.		PH	9	Panicum virgatum 'Heavy Metal' HEAVY METAL SWITCHGRASS	#1	30" O.C.
QR	2	Quercus rubra RED OAK	2 1/2" Cal.		PV	11	Panicum virgatum 'Shenandoah' SHENANDOAH RED SWITCHGRASS	#1	30" O.C.
TC	2	Tilia cordata 'Greenspire' GREENSPIRE LITTLELEAF LINDEN	2 1/2" Cal.		SS	23	Schizachyrium scoparium LITTLE BLUESTEM	#1	30" O.C.
ORNAMENTAL TREES					PERENNIALS				
AG	2	Amelanchier x grandiflora APPLE SERVICEBERRY	8' Ht.	Multi-Stem	AB	160	Allium 'Summer Beauty' SUMMER BEAUTY ONION	#1	18" O.C.
CC	3	Cercis canadensis EASTERN REDBUD	8' Ht.	Clump Form	EC	74	Echinacea 'CBG Cone 2' PIXIE MEADOWBRITE CONEFLOWER	#1	18" O.C.
CM	1	Cornus mas CORNELIANCHERRY DOGWOOD	2" Cal.	Tree Form	IS	40	Iris sibirica SIBERIAN IRIS	#1	18" O.C.
EVERGREEN TREES					GROUNDCOVERS				
FS	2	Picea strobus EASTERN WHITE PINE	8' Ht.		MD	18	Manarda didyma 'Raspberry Wine' RASPBERRY WINE BEEBALM	#1	24" O.C.
TO	3	Thuja occidentalis 'Techny' TECHN Y ARBORVITAE	6' Ht.		CF	160	Carex flacca BLUE SEDGE	#SP4	12" O.C.
DECIDUOUS SHRUBS					MISC. MATERIALS				
CS	17	Cornus sericea 'Farrow' ARCTIC FIRE REDTWIN DOGWOOD	24" Tall	3' O.C.	LS	90	Liriope spicata CREEPING LILYTURF	#SP4	12" O.C.
PO	22	Physocarpus opulifolius 'Danna May' LITTLE DEVIL NINEBARK	24" Tall	3' O.C.					
VJ	1	Viburnum x juddii JUDD VIBURNUM	36" Tall	4' O.C.					
EVERGREEN SHRUBS									
JK	5	Juniperus chinensis 'Kallays Compact' KALLAYS COMPACT PFITZER JUNIPER	24" Wide	4' O.C.					
JB	22	Juniperus conferta 'Blue Pacific' BLUE PACIFIC JUNIPER	24" Wide	4' O.C.					

EXISTING PLANT LIST

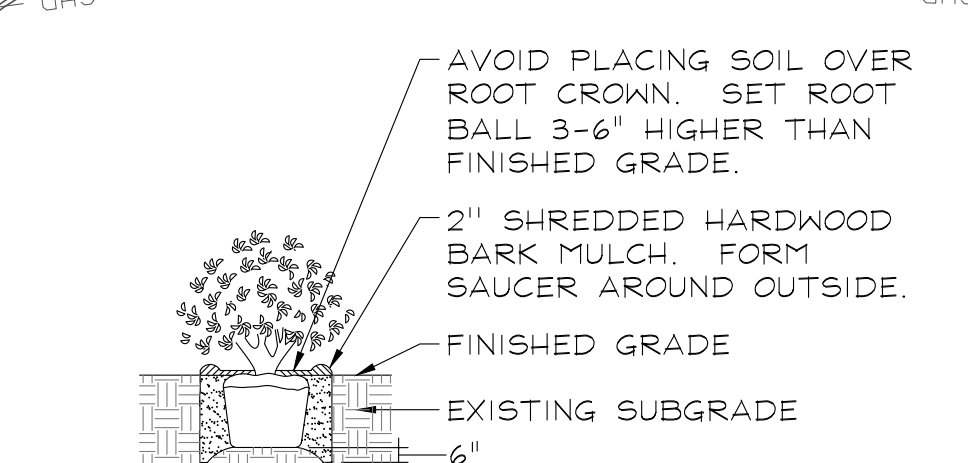
Tree #	Botanic Name	Common Name	Size (DBH)
1	Acer platanoides	Norway Maple	10"
2	Picea pungens 'Glauca'	Colorado Blue Spruce	10"
3	Gymnocladus dioicus	Kentucky Coffeetree	6"
4	Syringa reticulata	Japanese Tree Lilac	4"
5	Gymnocladus dioicus	Kentucky Coffeetree	3"
6	Gleditsia triacanthos inermis	Thornless Honeylocust	18"
7	Gymnocladus dioicus	Kentucky Coffeetree	4"
8	Gleditsia triacanthos inermis	Thornless Honeylocust	12"
9	Acer freemanii	Freeman Maple	8"
10	Quercus muehlenbergii	Chinkapin Oak	8"
11	Acer freemanii	Freeman Maple	6"
12	Gleditsia triacanthos inermis	Thornless Honeylocust	14"



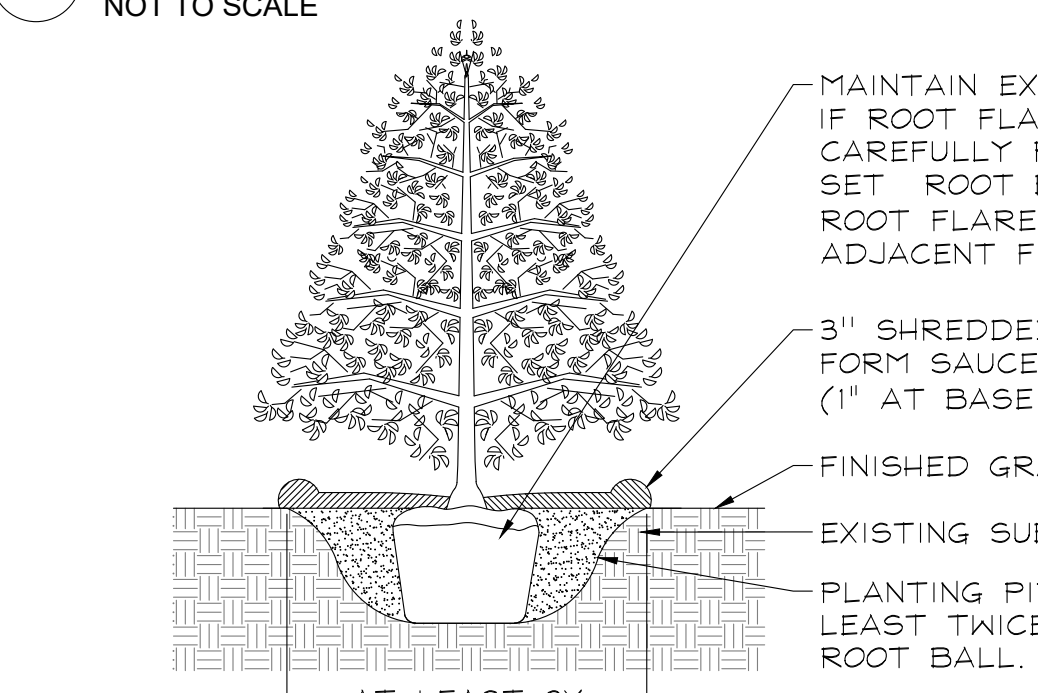
2 STONE STRIP PLAN
NOT TO SCALE



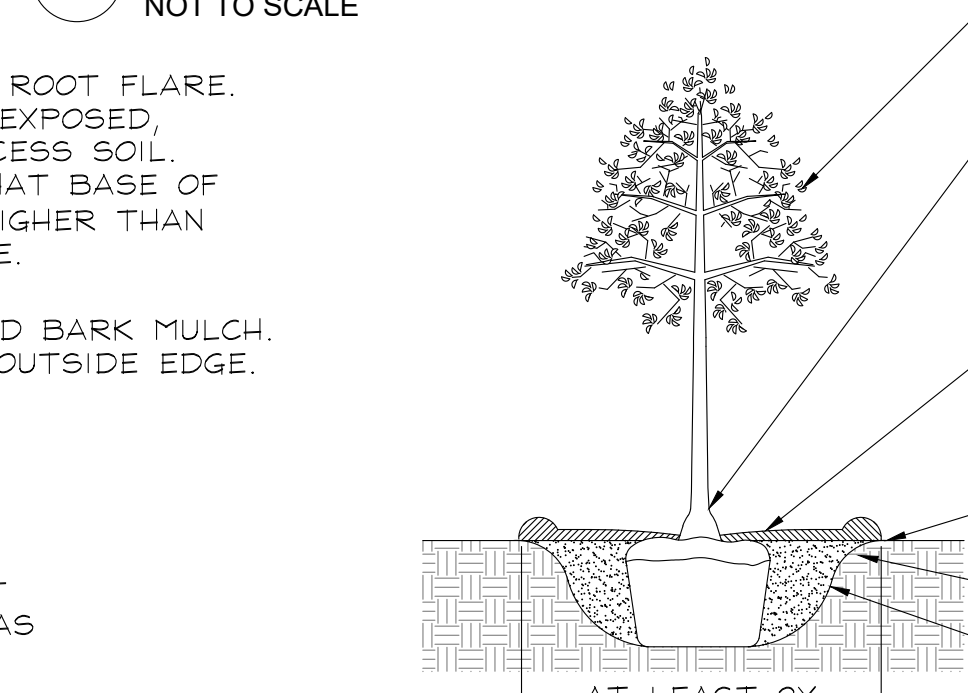
3 PERENNIALS & GROUNDCOVERS PLANTING DETAIL
NOT TO SCALE



4 DECIDUOUS & EVERGREEN SHRUBS PLANTING DETAIL
NOT TO SCALE



5 EVERGREEN TREE PLANTING DETAIL
NOT TO SCALE

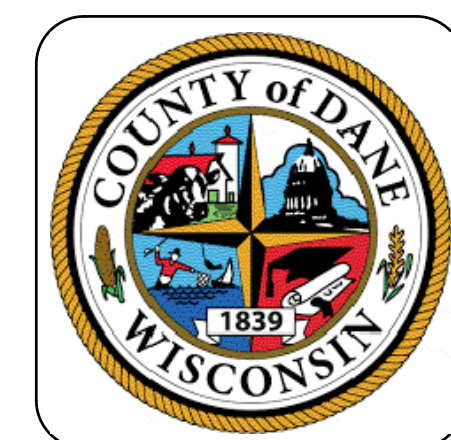


6 SHADE TREE PLANTING DETAIL
NOT TO SCALE

1 LANDSCAPE PLAN
SCALE 1/8" = 1'-0"

PRAIRIE FORGE GROUP
300 CARDINAL DRIVE SUITE 160
SAINT CHARLES IL 60175
630.221.0671 | P
630.221.0718 | F
www.prairieforgroup.com

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DANE COUNTY EMERGENCY MANAGEMENT REMODEL
5415 KING JAMES WAY
FITCHBURG, WISCONSIN

CLIENT APPROVAL
 APPROVED
 APPROVED AS NOTED
APPROVED BY / DATE:

ISSUE RECORD

DD SET	08/04/20
CD CHECK SET	11/20/20
98% CD REVIEW	02/11/21
HVAC REDESIGN	04/30/21
ISSUE FOR BID	06/08/21

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PROJECT NUMBER: 2020-001

LANDSCAPE PLAN
L-1

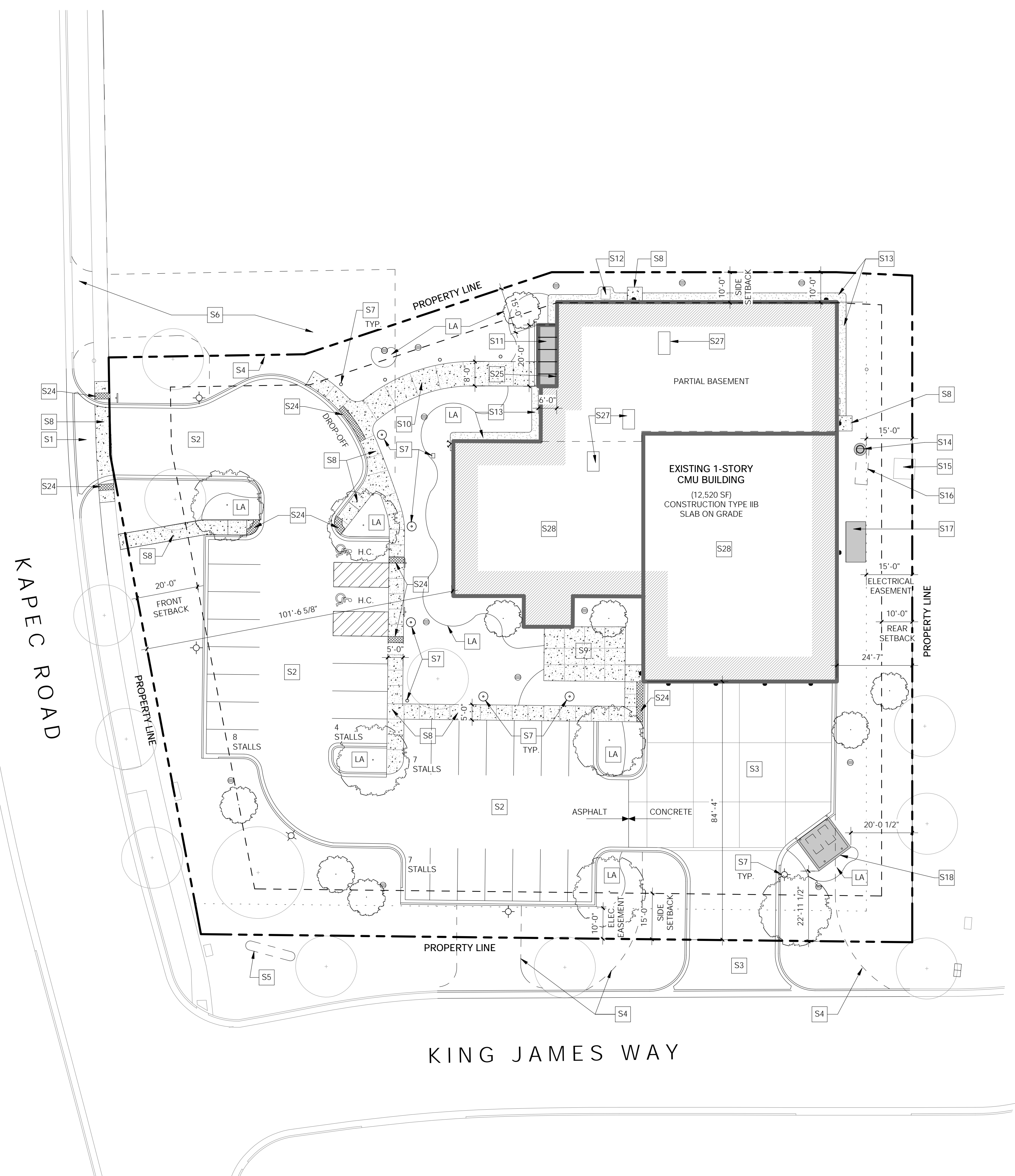
GRWA
LAND PLANNING BIOLOGICAL CONSULTING LANDSCAPE ARCHITECTURE
402 W. LIBERTY DRIVE WHEATON, ILLINOIS 60187 PHONE: 630.668.2197

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NOT FOR CONSTRUCTION



1 ARCHITECTURAL SITE PLAN
SCALE 1" = 20'-0"

NOTE: RADIO TOWER DESIGN + ENGINEERING BY OTHERS. RADIO TOWER NOT INCLUDED IN SCOPE OF WORK. FINAL LOCATION AND SCOPE TO BE VERIFIED AND COORDINATED BETWEEN THE OWNER AND CONTRACTOR.

SITE PLAN LEGEND

- EXISTING TREE TO REMAIN
- NEW TREE, SEE LANDSCAPE PLAN
- NEW CONCRETE SIDEWALK
- EXISTING LIGHT POLE
- NEW LIGHT FIXTURE - 20' POLE
- NEW LIGHT FIXTURE - 10' POLE
- NEW LIGHT FIXTURE - BOLLARD TYPE
- NEW BUILDING MOUNTED LIGHT FIXTURE
- EXISTING FIRE DEPARTMENT CONNECTION
- NEW DRAINAGE STRUCTURE - SEE CIVIL DRAWINGS

DIGGERS HOTLINE: WISCONSIN'S ONE-CALL CENTER
CALL 811 OR (800) 242-8511
(262) 432-7910
(877) 500-9592 (EMERGENCY ONLY)



CONTRACTOR MUST LOCATE PRIVATE UTILITIES IN AREA OF CONSTRUCTION PRIOR TO PROCEEDING WITH WORK

SITE PLAN GENERAL NOTES

1. REFER TO CIVIL DRAWINGS FOR ALL SITE/CIVIL INFORMATION.
2. REFER TO LANDSCAPE DRAWINGS FOR ALL LANDSCAPE INFORMATION.
3. EXISTING VEGETATION AND LANDSCAPING TO REMAIN WHEREVER POSSIBLE. COORDINATE WITH OWNER.
4. PROTECT EXISTING TREES UNLESS NOTED OTHERWISE. SEE CIVIL + LANDSCAPE DWGS.

SITE PLAN KEY NOTES

- S1 NEW CONCRETE APRON + CURB CUT - SEE CIVIL DWGS.
- S2 NEW ASPHALT DRIVE + PARKING LOT (26 STALLS + 2 ADA STALLS) SEE CIVIL DWGS.
- S3 NEW CONCRETE DRIVE - SEE CIVIL DWGS.
- S4 EXISTING DRIVEWAYS AND CURB CUTS TO BE REMOVED - SEE CIVIL DWGS.
- S5 EXISTING MONUMENTAL SIGN + MASONRY BASE TO BE REMOVED.
- S6 EXISTING CURB CUT AND DRIVEWAY TO BE REMOVED BY OTHERS.
- S7 NEW SITE LIGHTING, SEE ELECTRICAL DRAWINGS.
- S8 NEW CONCRETE SIDEWALKS / STOOPS, SEE STRUCT. DWGS.
- S9 NEW CONCRETE PATIO.
- S10 NEW CONCRETE ACCESSIBLE MAIN ENTRY WALKWAY.
- S11 NEW GLASS + METAL ENTRY CANOPY.
- S12 EXISTING RADIO TOWER AND CONCRETE PAD TO REMAIN.
- S13 STONE PERIMETER EDGING - SEE CIVIL + LANDSCAPE DWGS.
- S14 PROPOSED RADIO TOWER - BY OWNER.
- S15 EXISTING TRANSFORMER.
- S16 EXISTING GENERATOR + CONC. PAD TO BE REMOVED.
- S17 NEW GENERATOR + CONC. PAD, SEE ELEC. DWGS.
- S18 NEW TRASH ENCLOSURE, SEE DWGS. ON AS 1.2
- S24 DETECTABLE WARNING WALKWAY - SEE CIVIL DWGS.
- S25 ACCESSIBLE BUILDING ENTRANCE.
- S26 NOT USED
- S27 NEW ROOF TOP AIR HANDLING UNIT, SEE MECH. DWGS.
- S28 NEW ROOFING, MODIFIED BITUMINOUS MEMBRANE.
- LA SEE LANDSCAPE PLAN FOR PLANTING AND TREE DETAILS.

ZONING ANALYSIS

REQUIREMENTS	PROPOSED
EXISTING ADDRESS: 5415 KING JAMES WAY	ADDRESS: TBD KAPEC ROAD
ZONE: B-G GENERAL BUSINESS	USE: GOVERNMENT OFFICES
MIN. LOT AREA: 8,000 SQUARE FEET	EXISTING LOT AREA: 51,836 SQUARE FEET (1.19 ACRE)
MIN. LOT WIDTH: 60 FEET	EXISTING LOT WIDTH: 191.26 FEET
MIN. FRONT SETBACK: 20 FEET	EXG. FRONT SETBACK: 101.55 FEET
MIN. SIDE SETBACK: 10 FEET	EXG. SIDE SETBACK: 10 FEET
MIN. SIDE STREET S.B.: 15 FEET	SIDE STREET S.B.: 22.96 FEET
MIN. REAR SETBACK: 10 FEET	REAR SETBACK: 20.06 FEET
MAX. BUILDING HEIGHT: 42 FEET, OR 3 STORIES	EXG. BUILDING HEIGHT: 22.75 FEET, 1 STORY
MIN. OPEN SPACE: 25%	OPEN SPACE: 38.12 %
	IMPERVIOUS SURFACE RATIO: 62.23 %
PARKING REQUIREMENT: OFFICE = 1 STALL PER 300 GSF OF BUILDING AREA	PARKING REQUIREMENT: OFFICE AREA = 7,360 GSF / 300 = 24.5 = 25 PARKING STALLS

NOT FOR CONSTRUCTION

PRAIRIE FORGE GROUP
300 CARDINAL DRIVE
SUITE 160
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DANE COUNTY EMERGENCY MANAGEMENT REMODEL
5415 KING JAMES WAY
FITCHBURG, WISCONSIN

CLIENT APPROVAL
 APPROVED
 APPROVED AS NOTED
APPROVED BY / DATE:

ISSUE RECORD

DD SET	08/04/20
ADR CHECK SET	10/20/20
ADR REVISION W	11/10/20
HVAC REDESIGN	04/30/21
ISSUE FOR BID	06/08/21

PROJECT ARCHITECT
RBS
DRAWN BY
LMB
DATE
6/3/2021 12:51:12 PM
PROJECT NUMBER
2020-001

SITE PLAN
AS 1.1

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 5415 KING JAMES WAY
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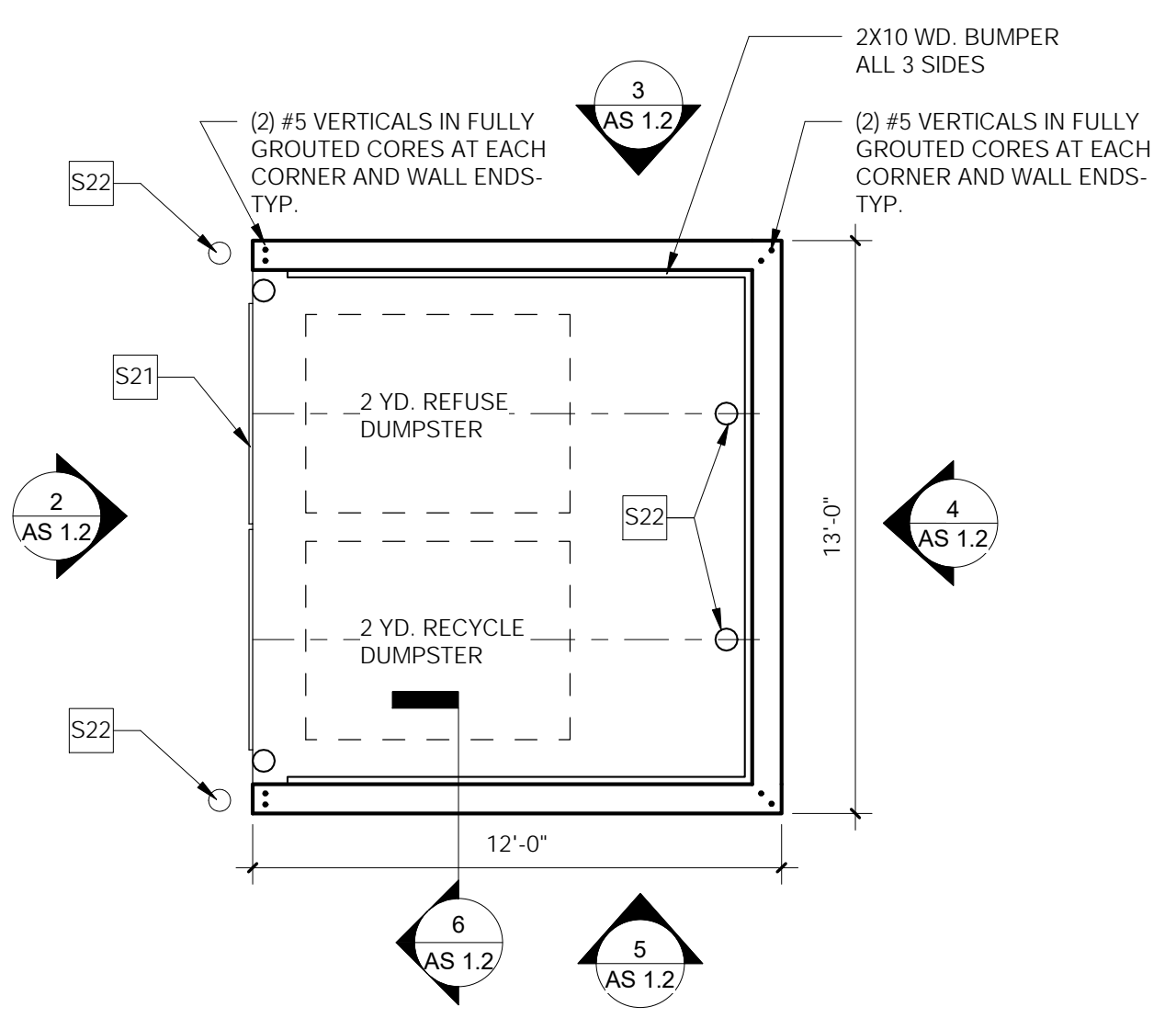
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 2020-001

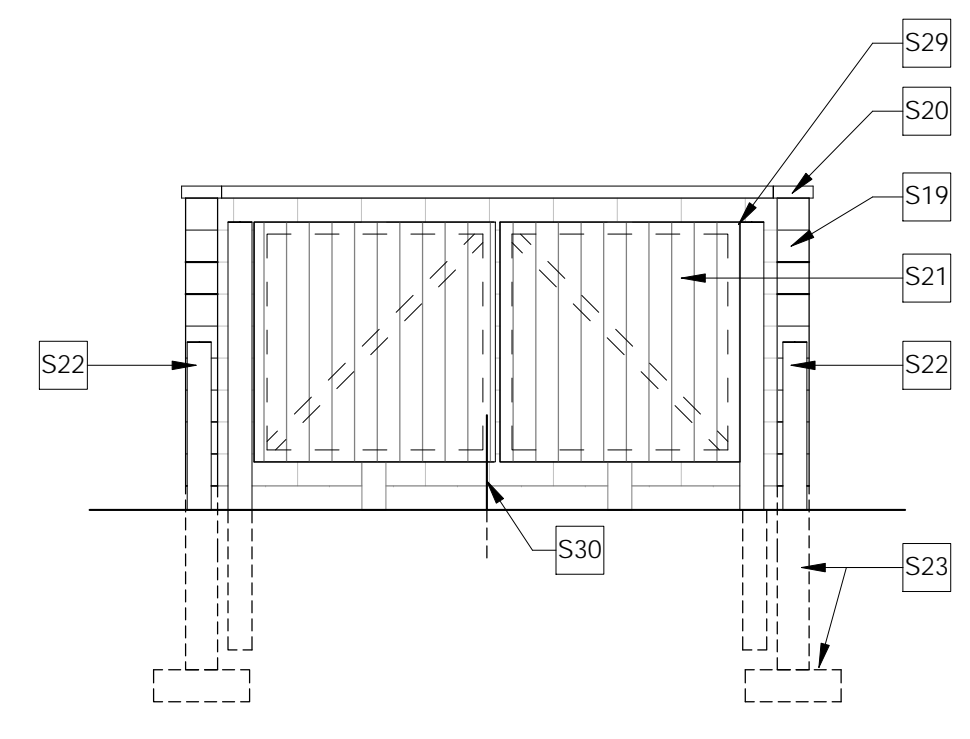
SITE DETAILS
AS 1.2

NOT FOR CONSTRUCTION

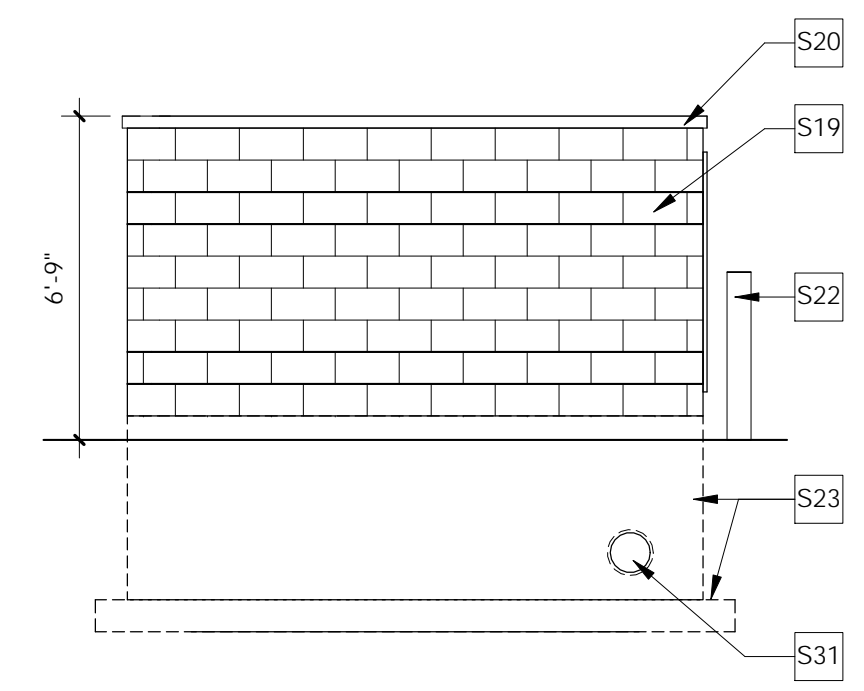


1 TRASH ENCLOSURE PLAN
 SCALE 1/4" = 1'-0"

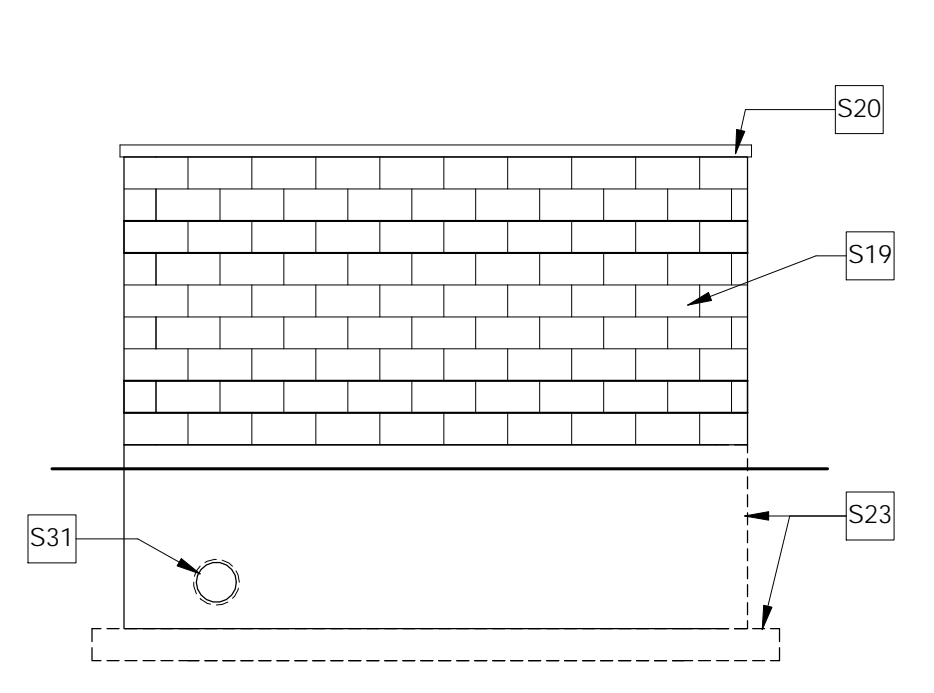
- TRASH ENCLOSURE KEY NOTES**
- S19 CONCRETE MASONRY UNIT WALL - COLOR + PATTERN TO MATCH EXISTING BUILDING. PAINT INTERIOR SURFACE OF CMU.
 - S20 METAL COPING - COLOR TO MATCH METAL FASCIA OF BUILDING.
 - S21 VINYL PLANK GATE ON GALVANIZED STEEL FRAME. SEE DETAIL 9/AS1.2
 - S22 STEEL BOLLARD - CONCRETE FILLED. SEE DETAIL 8/AS1.2
 - S23 CONCRETE FOUNDATION AND FOOTING.
 - S29 HEAVY DUTY BALL BEARING HINGES WELDED TO FRAME AND POST.
 - S30 GATE ANCHOR PIN
 - S31 PROVIDE SLEEVE FOR NEW STORM SEWER LINE - SEE CIVIL



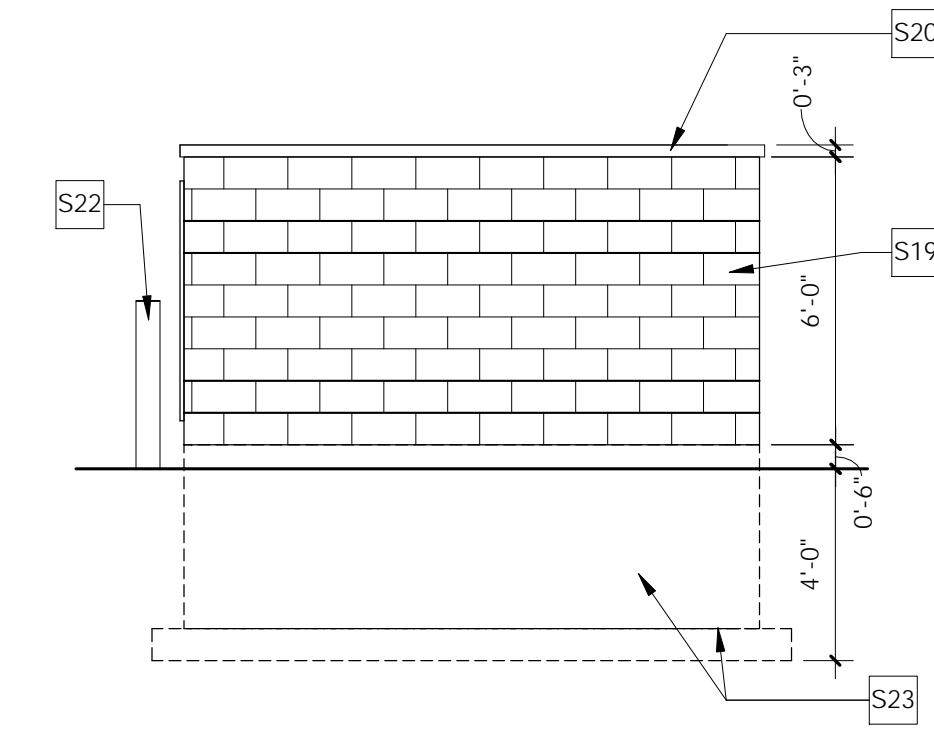
2 TRASH ENCLOSURE - NORTH
 SCALE 1/4" = 1'-0"



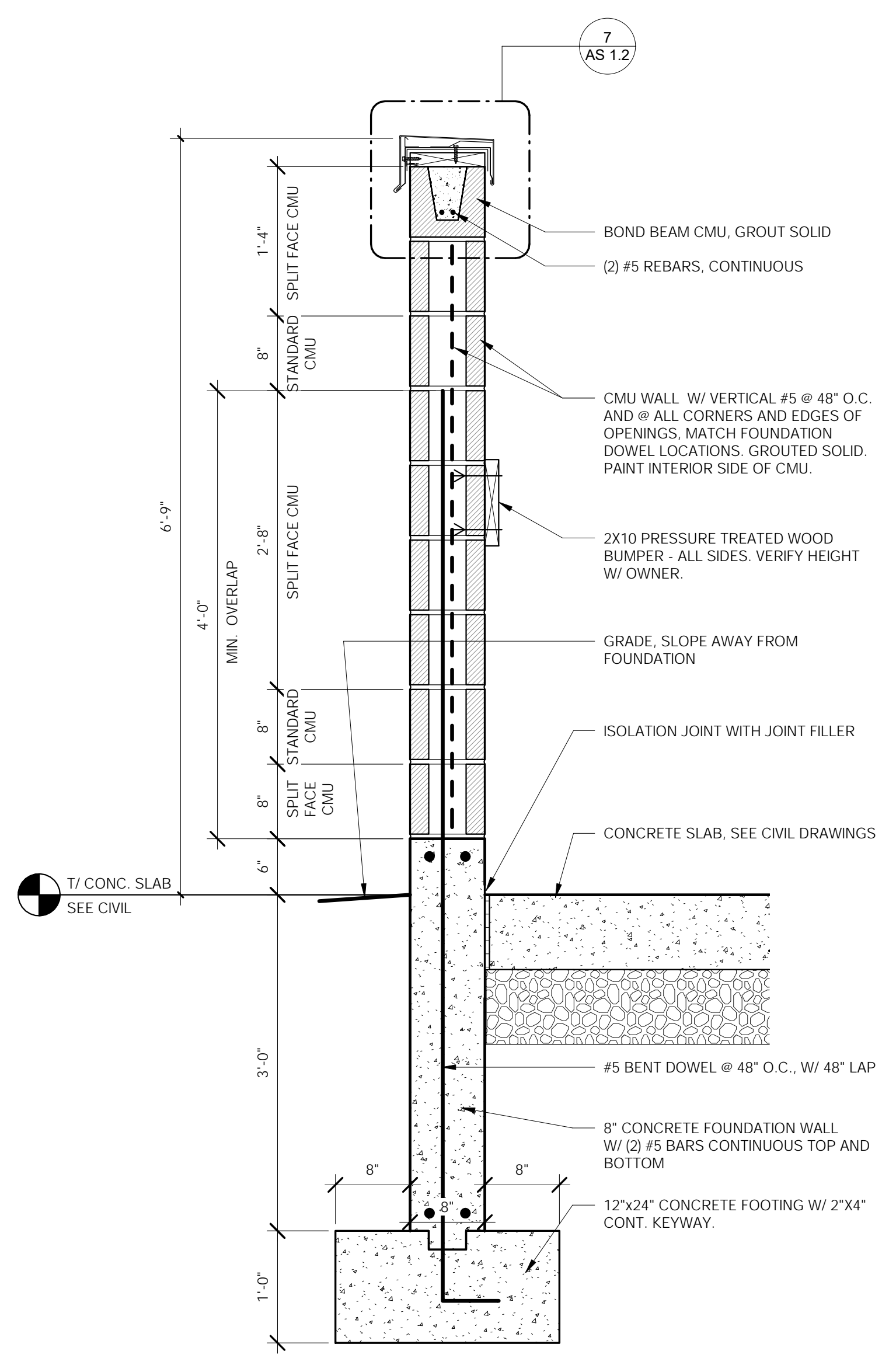
3 TRASH ENCLOSURE - EAST
 SCALE 1/4" = 1'-0"



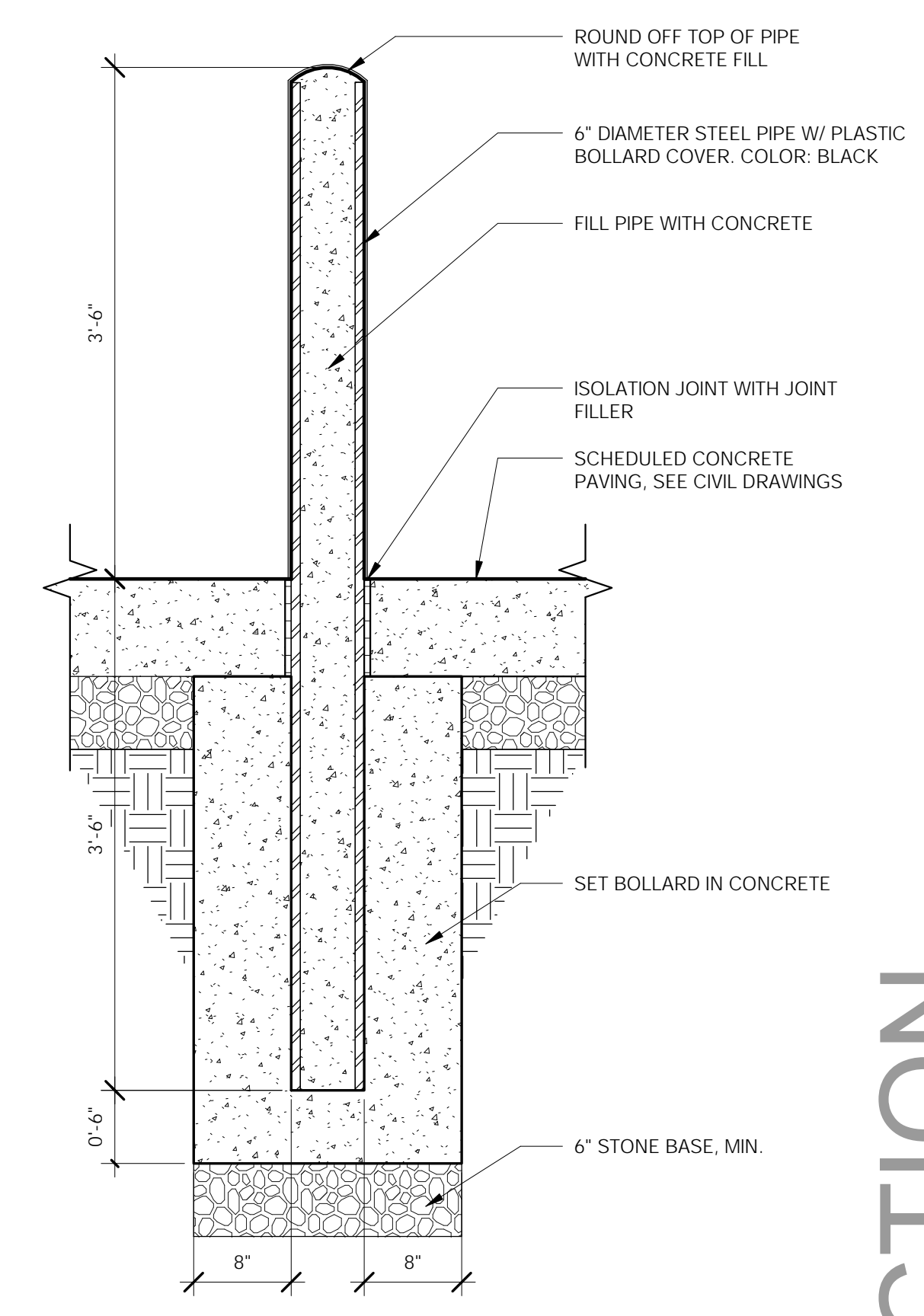
4 TRASH ENCLOSURE - SOUTH
 SCALE 1/4" = 1'-0"



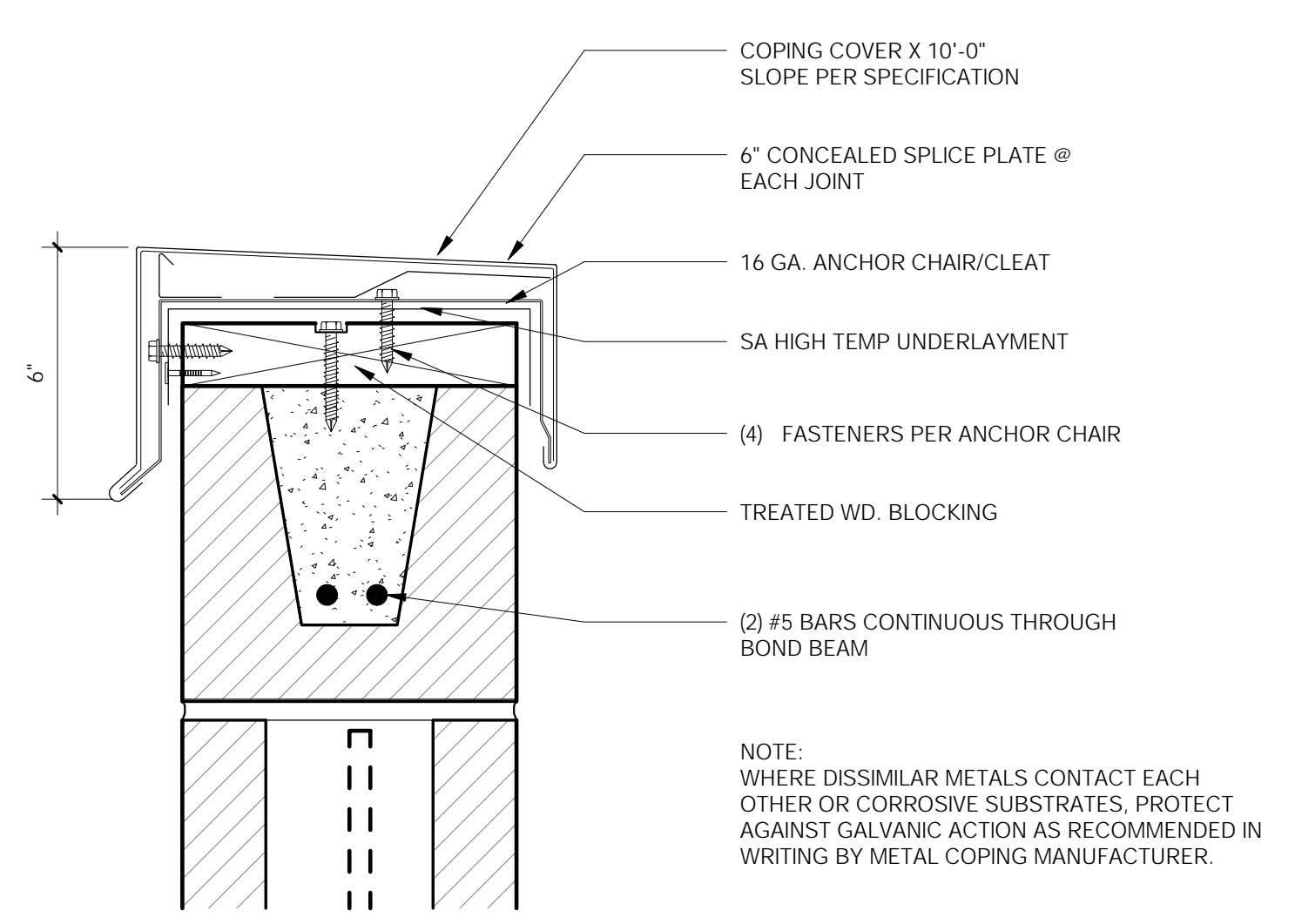
5 TRASH ENCLOSURE - WEST
 SCALE 1/4" = 1'-0"



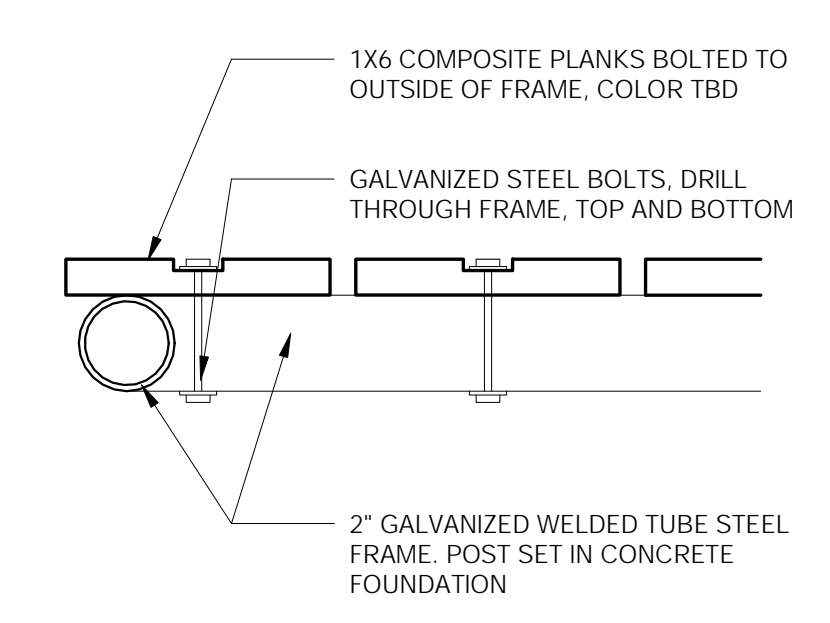
6 TRASH ENCLOSURE SECTION
 SCALE 1" = 1'-0"



8 PIPE BOLLARD DETAIL
 SCALE 1" = 1'-0"



7 METAL COPING DETAIL
 SCALE 3" = 1'-0"



9 TRASH ENCLOSURE GATE DETAIL
 SCALE 3" = 1'-0"



DANE COUNTY EMERGENCY MANAGEMENT REMODEL
 5415 KING JAMES WAY
 FITCHBURG, WISCONSIN

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 APPROVED BY / DATE:

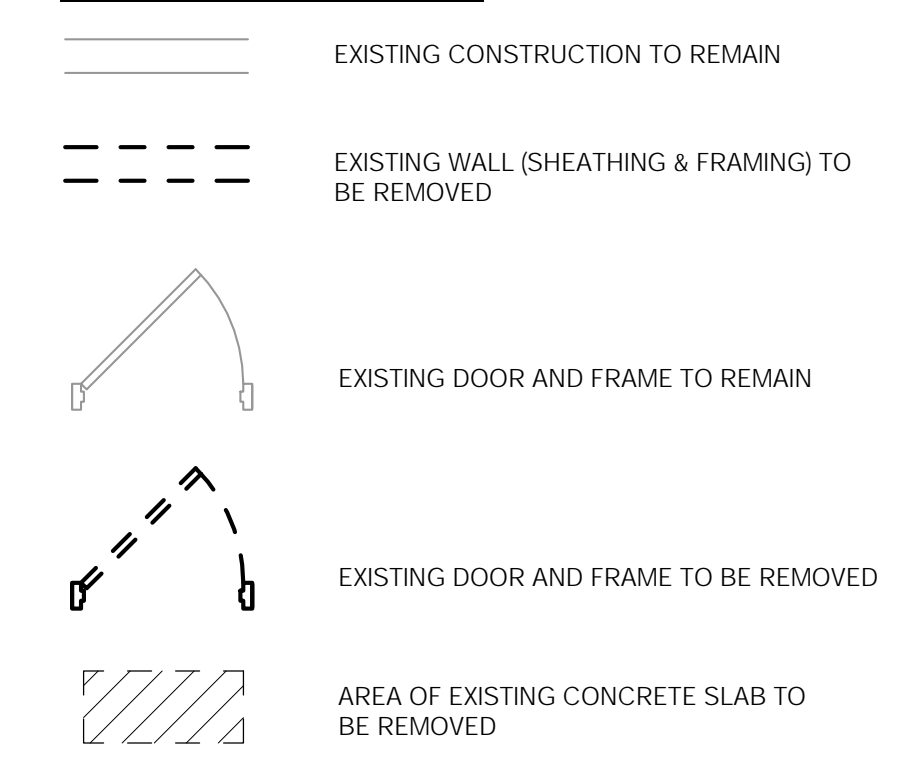
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CD CHECK SET	11/20/20
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PROJECT ARCHITECT
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PROJECT NUMBER
 2020-001

BASEMENT + FIRST FLOOR DEMOLITION PLAN
AD 1.1

DEMOLITION LEGEND

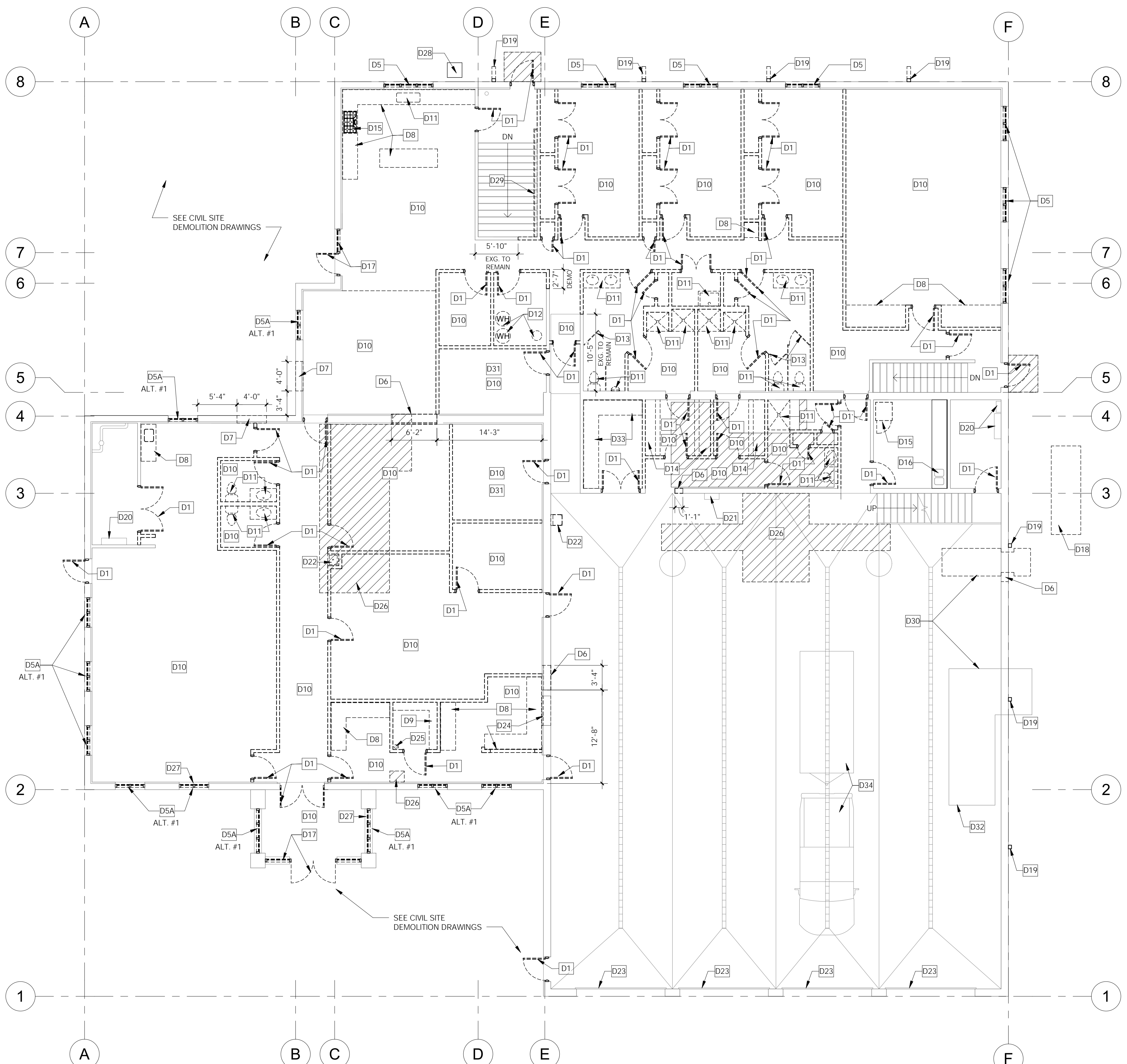


DEMOLITION GENERAL NOTES

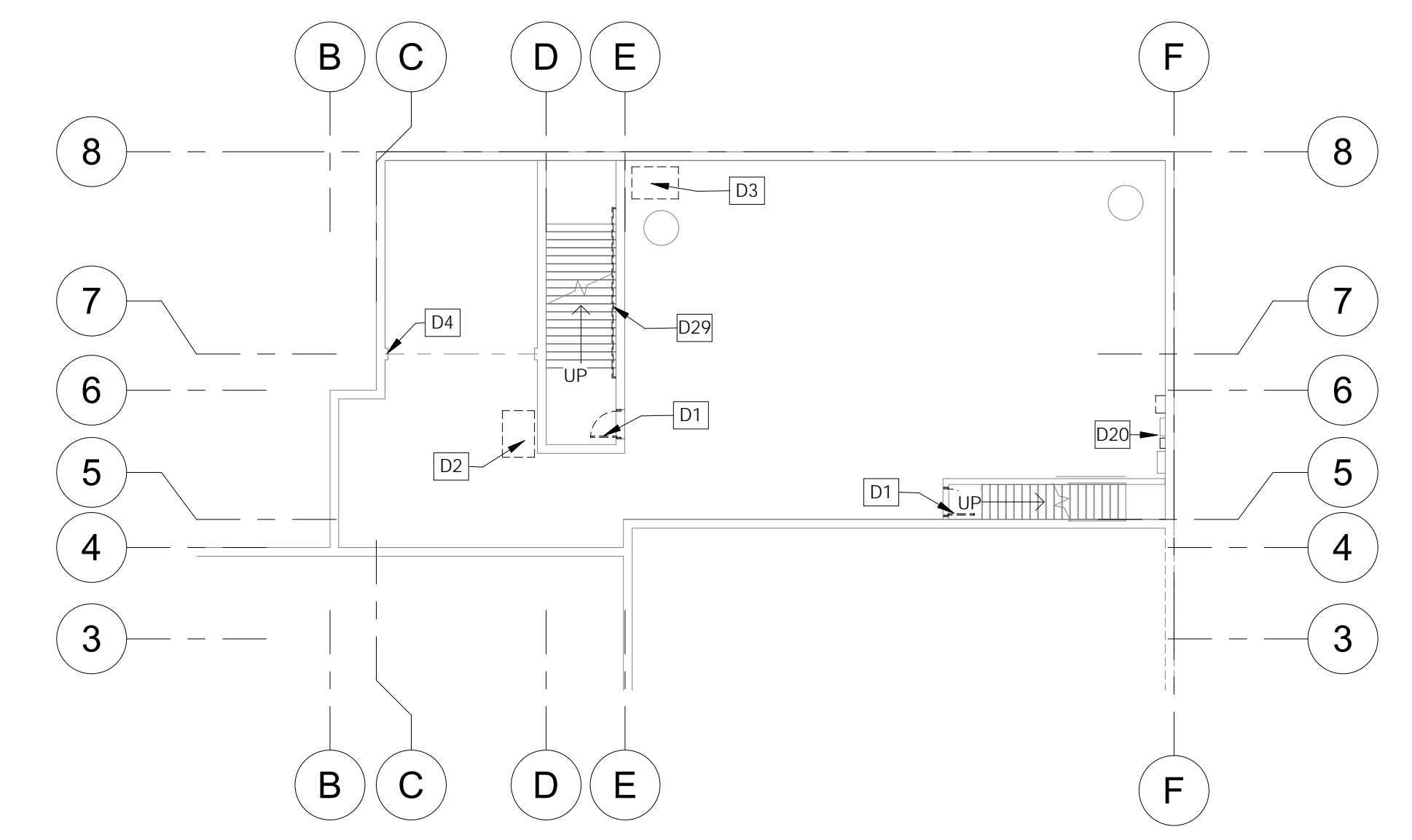
- COORDINATE ALL DEMOLITION WORK. REFER TO THE MECHANICAL, ELECTRICAL, PLUMBING, AND CIVIL DRAWINGS:
 - ELECTRICAL: REMOVE / CAP EXISTING ELECTRICAL EQUIPMENT, CONDUIT, BOXES AND WIRES AS REQUIRED.
 - COMPLETELY REMOVE EXISTING FIRE ALARM SYSTEM AND ALL EQUIPMENT.
 - PLUMBING: REMOVE AND CAP BELOW ADJACENT FINISHED SURFACES ALL EXISTING PIPING TO BE DEMOLISHED OR REVISED, TO MEET CURRENT CODE.
- PERFORM ALL DEMOLITION WORK AS NECESSARY TO ACCOMPLISH THE WORK, INCLUDING THE REMOVAL, DISPOSAL, STORAGE AND/OR RE-USE OF ITEMS AS INDICATED AND REQUIRED.
- PROVIDE TEMPORARY SUPPORT AND BRACING OF EXISTING STRUCTURE AS NECESSARY UNTIL CONSTRUCTION IS COMPLETE.
- COORDINATE THE DEMOLITION WORK TO ACCOMMODATE SCHEDULING OF NEW WORK.
- PREPARE SUBSTRATES AND SURFACES AS REQUIRED FOR NEW CONSTRUCTION.
- VERIFY ALL EXISTING DIMENSIONS, ITEMS, AND CONDITIONS IN FIELD.
- PATCH EXISTING SURFACES AFFECTED BY THE WORK TO MATCH SURFACES & SUBSTRATES.
- PROVIDE DAILY CLEAN UP OF OWNER'S EQUIPMENT AND REMOVE CONSTRUCTION DEBRIS.
- PROVIDE DUST CONTROL BETWEEN AREAS OF DEMOLITION AND OWNER'S EQUIPMENT.
- ITEMS NOT SHOWN DOTTED ON THE DEMOLITION DRAWING YET WHICH ARE VISIBLE OR COULD BE ANTICIPATED TO REQUIRE REMOVAL IN ORDER TO COMPLETE THE WORK ARE INCLUDED AS A PART OF THE DEMOLITION WORK.
- IT IS THE OWNER'S RESPONSIBILITY TO REMOVE ANY MATERIALS CONTAINING ASBESTOS. PRIOR TO THE COMMENCEMENT OF THE WORK, THE OWNER'S ASBESTOS ABATEMENT CONTRACTOR WILL REMOVE EXISTING MATERIALS CONTAINING ASBESTOS. THE CONTRACTOR SHALL NOTIFY THE OWNER WHEN HE ENCOUNTERS MATERIALS WHICH HE BELIEVES MAY CONTAIN ASBESTOS.
- A LIMITED AMOUNT OF CUTTING AND PROBING IN CMU WALLS AND THE PRECAST PLANK FLOOR SYSTEM HAS BEEN PERFORMED. CONTRACTOR IS RESPONSIBLE TO LOCATE AND PATCH THESE AREAS AND MATCH EXISTING CONSTRUCTION (P.T.M.E.).
- PROTECT EXISTING TRAILER AND VEHICLE FROM DAMAGE. COORDINATE RELOCATION WITH OWNER THROUGHOUT CONSTRUCTION.

DEMOLITION KEY NOTES

- BASEMENT**
- D1 REMOVE EXISTING DOOR AND FRAME.
 - D2 REMOVE EXISTING FURNACE. SEE MEP DRAWINGS.
 - D3 REMOVE EXISTING GREASE INTERCEPTOR. SEE PLUMBING DRAWINGS.
 - D4 REMOVE AND REPLACE THE BEAM END BEARING PLATE FOR BEAM REPAIR. SEE STRUCTURAL DRAWINGS.
- FIRST FLOOR**
- D1 REMOVE EXISTING DOOR AND FRAME.
 - D5 REMOVE EXISTING WINDOW AND PREPARE FOR NEW, TYPICAL ALL WINDOWS.
 - D5A REMOVE EXISTING WINDOW AND PREPARE FOR NEW, IF ALTERNATE #1 IS ACCEPTED. IF ALTERNATE #1 IS NOT ACCEPTED SEE ALLOWANCE #6.
 - D6 REMOVE EXISTING PORTION OF CMU BEARING WALL AND PREPARE FOR NEW OPENING. SEE STRUCTURAL DWGS. FOR NEW LITEL.
 - D7 REMOVE EXISTING PORTION OF CMU WALL FOR NEW WINDOW. SALVAGE BLOCK FOR RELOCATION, IF POSSIBLE.
 - D8 REMOVE EXISTING COUNTER AND CASEWORK.
 - D9 REMOVE EXISTING SHELING.
 - D10 REMOVE EXISTING FLOORING.
 - D11 REMOVE EXISTING PLUMBING FIXTURE AND ALL RELATED PIPING. SEE PLUMBING DWGS.
 - D12 REMOVE EXISTING WATER HEATERS/ WATER SOFTENER.
 - D13 REMOVE EXISTING TOILET PARTIONS.
 - D14 REMOVE EXISTING LOCKERS AND BENCH. SALVAGE LOCKERS FOR REINSTALLATION.
 - D15 REMOVE EXISTING APPLIANCE AND ALL RELATED WIRING AND PIPING. SEE MEP DWGS.
 - D16 EXISTING STAINLESS STEEL SINK AND COUNTER TO REMAIN. PROTECT DURING DEMOLITION.
 - D17 REMOVE EXISTING STOREFRONT DOORS AND WINDOWS, AND PREPARE FOR NEW.
 - D18 REMOVE EXISTING GENERATOR AND PAD.
 - D19 REMOVE EXISTING DOWNSPOUTS AND RECEPTORS. P.T.M.E. METAL FASCIA.
 - D20 EXISTING POWER PANELS. SEE ELECTRICAL DEMOLITION DWGS FOR SCOPE.
 - D21 EXISTING TOX ALERT TO REMAIN. PROTECT DURING DEMOLITION. SEE MECH. DWGS.
 - D22 REMOVE EXISTING WATER COOLER AND ALL RELATED PIPING SEE PLUMBING DWGS.
 - D23 EXISTING OVERHEAD DOOR TO REMAIN. PREP. FOR PAINT. ALLOWANCE FOR REPAIRS.
 - D24 REMOVE EXISTING GLAZING AND HOLLOW METAL FRAME.
 - D25 EXISTING ROOF DRAIN PIPING TO BE REMOVED AND RE-PIPED. SEE FLOOR PLAN FOR NEW LOCATION.
 - D26 REMOVE PORTION OF EXISTING CONCRETE FLOOR SLAB FOR NEW UNDERGROUND PLUMBING. SEE PLUMBING DRAWINGS.
 - D27 REMOVE EXISTING P.LAM. WINDOW SILLS AND PREPARE SURFACE FOR NEW SOLID SURFACE SILLS. TYPICAL ALL WINDOWS.
 - D28 EXISTING RADIO TOWER TO REMAIN. PROTECT FROM DAMAGE DURING CONSTRUCTION.
 - D29 REMOVE STEEL TUBE HANDRAIL AND SALVAGE FOR REINSTALLATION.
 - D30 SEE MECHANICAL DWGS. FOR SCOPE OF WORK.
 - D31 SEE ELEC. DWGS. FOR NEW FLOOR MOUNTED RECEPTACLES (P.T.M.E.).
 - D32 MAU SYSTEM TO REMAIN. PROTECT DURING CONSTRUCTION. SEE MECH. DWGS.
 - D33 EXG. STAINLESS STEEL COUNTERTOP TO BE REMOVED AND SALVAGED FOR MODIFICATION/REUSE. REMOVE EXG. CABINETS.
 - D34 EXG. OWNER VEHICLES TO BE PROTECTED AND MOVED AS REQ'D.



1 FIRST FLOOR DEMOLITION PLAN
 SCALE 1/8" = 1'-0"



2 BASEMENT DEMOLITION PLAN
 SCALE 1/16" = 1'-0"

NOT FOR CONSTRUCTION



DANE COUNTY EMERGENCY MANAGEMENT REMODEL
 5415 KING JAMES WAY
 FITCHBURG, WISCONSIN

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 2020-001

MEZZANINE + ROOF DEMOLITION PLAN

AD 1.2

DEMOLITION LEGEND

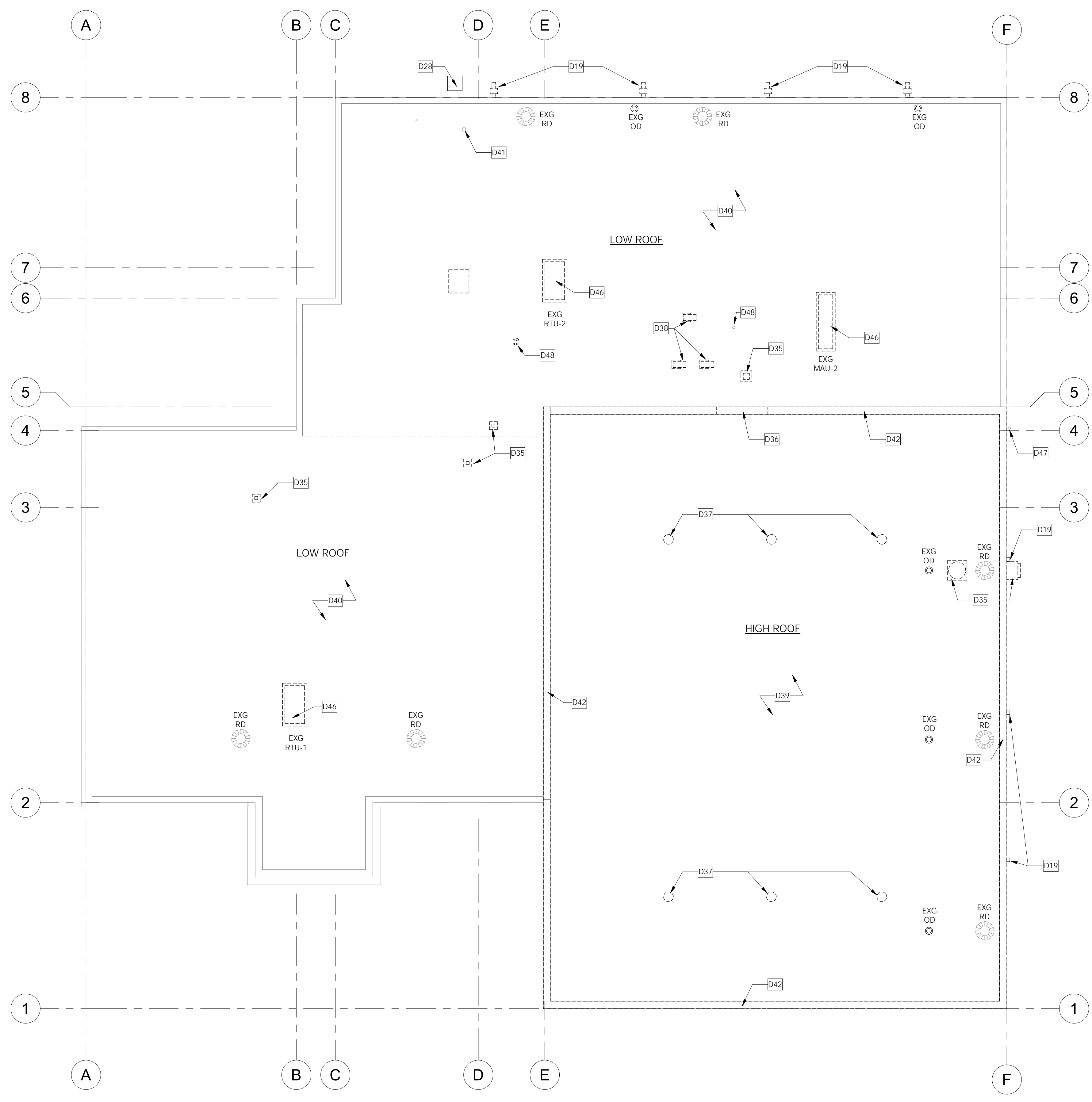
- EXISTING CONSTRUCTION TO REMAIN
- EXISTING ROOF CONSTRUCTION TO BE REMOVED
- EXG. RD EXISTING ROOF DRAIN TO BE REMOVED AND REPLACED
- EXG. OD EXISTING ROOF OVERFLOW DRAIN TO BE REMOVED AND REPLACED
- EXG. OD EXISTING ROOF OVERFLOW DRAIN TO BE COMPLETELY REMOVED. P.T.M.E. ROOF STRUCTURE

DEMOLITION GENERAL NOTES

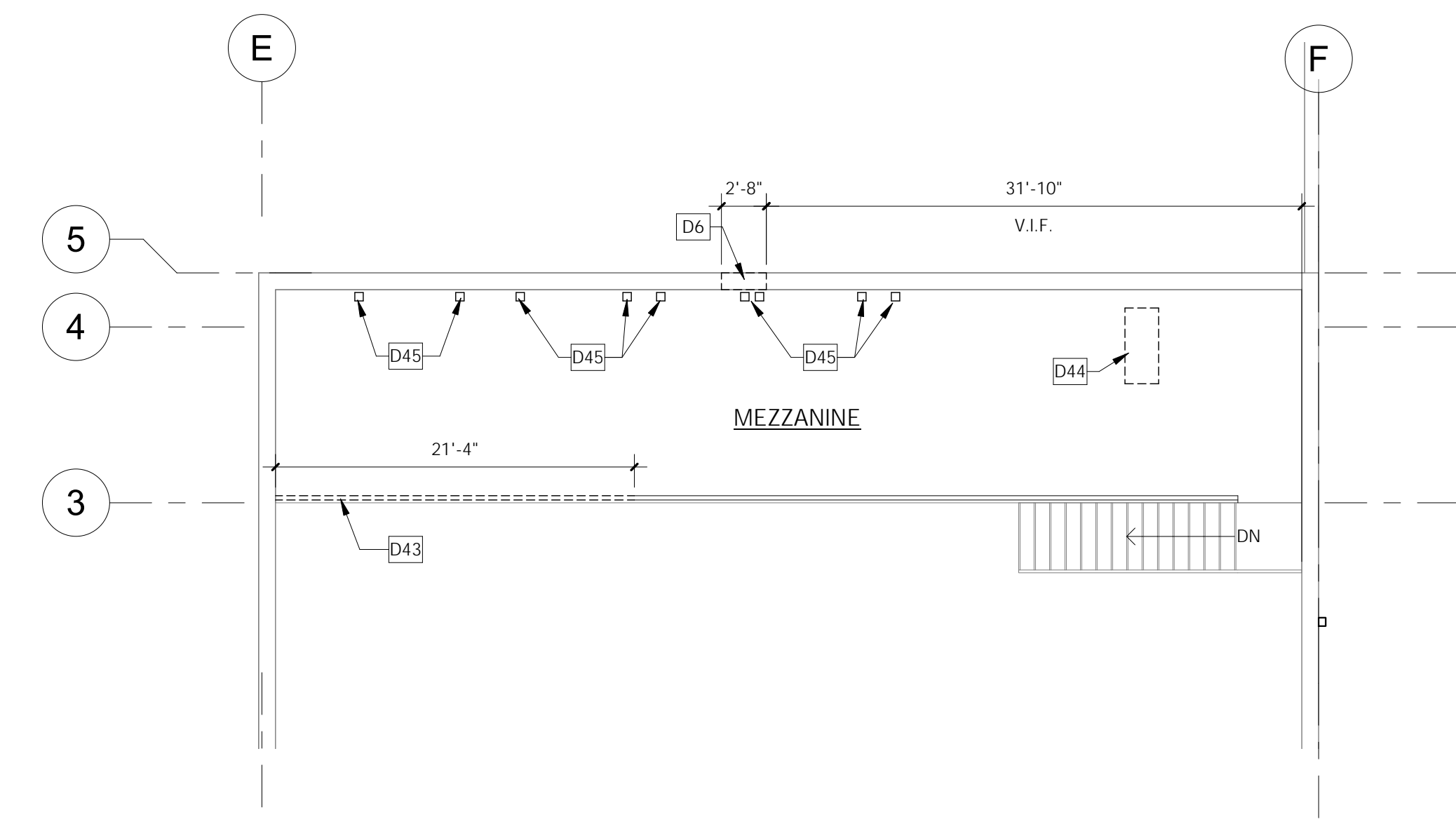
1. COORDINATE ALL DEMOLITION WORK. REFER TO THE MECHANICAL, ELECTRICAL, PLUMBING, AND CIVIL DRAWINGS:
 - a. ELECTRICAL: REMOVE / CAP EXISTING ELECTRICAL EQUIPMENT, CONDUIT, BOXES, AND WIRES AS REQUIRED.
 - b. COMPLETELY REMOVE EXISTING FIRE ALARM SYSTEM AND ALL EQUIPMENT.
 - c. PLUMBING: REMOVE AND CAP BELOW ADJACENT FINISHED SURFACES ALL EXISTING PIPING TO BE DEMOLISHED OR REVISED, TO MEET CURRENT CODE.
2. PERFORM ALL DEMOLITION WORK AS NECESSARY TO ACCOMPLISH THE WORK, INCLUDING THE REMOVAL, DISPOSAL, STORAGE AND/OR RE-USE OF ITEMS AS INDICATED AND REQUIRED.
3. PROVIDE TEMPORARY SUPPORT AND BRACING OF EXISTING STRUCTURE AS NECESSARY UNTIL CONSTRUCTION IS COMPLETE.
4. COORDINATE THE DEMOLITION WORK TO ACCOMMODATE SCHEDULING OF NEW WORK.
5. PREPARE SUBSTRATES AND SURFACES AS REQUIRED FOR NEW CONSTRUCTION.
6. VERIFY ALL EXISTING DIMENSIONS, ITEMS, AND CONDITIONS IN FIELD.
7. PATCH EXISTING SURFACES AFFECTED BY THE WORK TO MATCH SURFACES & SUBSTRATES.
8. PROVIDE DAILY CLEAN UP OF OWNER'S EQUIPMENT AND REMOVE CONSTRUCTION DEBRIS.
9. PROVIDE DUST CONTROL BETWEEN AREAS OF DEMOLITION AND OWNER'S EQUIPMENT.
10. ITEMS NOT SHOWN DOTTED ON THE DEMOLITION DRAWING YET WHICH ARE VISIBLE OR COULD BE ANTICIPATED TO REQUIRE REMOVAL IN ORDER TO COMPLETE THE WORK ARE INCLUDED AS A PART OF THE DEMOLITION WORK.
11. IT IS THE OWNER'S RESPONSIBILITY TO REMOVE ANY MATERIALS CONTAINING ASBESTOS. PRIOR TO THE COMMENCEMENT OF THE WORK, THE OWNER'S ASBESTOS ABATEMENT CONTRACTOR WILL REMOVE EXISTING MATERIALS CONTAINING ASBESTOS. THE CONTRACTOR SHALL NOTIFY THE OWNER WHEN HE ENCOUNTERS MATERIALS WHICH HE BELIEVES MAY CONTAIN ASBESTOS.
12. A LIMITED AMOUNT OF CUTTING AND PROBING IN CMU WALLS AND THE PRECAST PLANK FLOOR SYSTEM HAS BEEN PERFORMED. CONTRACTOR IS RESPONSIBLE TO LOCATE AND PATCH THESE AREAS AND MATCH EXISTING CONSTRUCTION (P.T.M.E.).
13. PROTECT EXISTING TRAILER AND VEHICLE FROM DAMAGE. COORDINATE RELOCATION WITH OWNER THROUGHOUT CONSTRUCTION.

DEMOLITION KEY NOTES

- MEZZANINE**
- D6 REMOVE EXISTING PORTION OF CMU BEARING WALL AND PREPARE FOR NEW OPENING. SEE STRUCTURAL DWGS. FOR NEW LINTEL.
 - D43 REMOVE PORTION OF METAL GUARDRAIL FOR NEW WALL CONSTRUCTION.
 - D44 REMOVE EXISTING AIR COMPRESSOR AND SALVAGE FOR REINSTALLATION. SEE MECHANICAL DWGS.
 - D45 REMOVE EXISTING DUCTWORK. SEE MECHANICAL DRAWINGS.
- ROOF PLAN**
- D19 REMOVE EXISTING DOWNSPOUTS AND RECEPTORS. P.T.M.E. METAL FASCIA.
 - D28 EXISTING RADIO TOWER TO REMAIN. PROTECT FROM DAMAGE DURING CONSTRUCTION.
 - D35 REMOVE EXISTING EXHAUST FAN AND RELATED DUCT WORK. P.T.M.E. METAL DECK/FASTENERS/ FRAME. SEE STRUCT. DWGS.
 - D36 REMOVE PORTION OF EXISTING METAL FASCIA FOR NEW ROOF ACCESS DOOR AND ROOF LADDER.
 - D37 EXG. VENT STACK TO BE REMOVED. SEE MECH. DWGS.
 - D38 REMOVE EXISTING GOOSENECK AND RELATED DUCTWORK.
 - D39 REMOVE EXISTING BALLASTED EPDM ROOF MEMBRANE AND POLYISOCYANURATE INSULATION. EXISTING 1/2" FIBERBOARD TO REMAIN. PROTECT ALL EXISTING CONSTRUCTION DURING DEMOLITION AND CONSTRUCTION.
 - D40 REMOVE EXISTING TPO ROOF MEMBRANE, 1/2" FIBERBOARD, POLYISOCYANURATE INSULATION, AND EPS INSULATION.
 - D41 EXISTING ELEC. SLEEVE TO REMAIN.
 - D42 CUT AND REMOVE SECTION (TOP HORIZONTAL ONLY) OF FASCIA CAP. SEE DETAIL 1/A3.5
 - D46 REMOVE EXISTING ROOFTOP MECH UNIT AND CURB. P.T.M.E. METAL DECK/FASTENERS/ FRAME. SEE STRUCT. DWGS.
 - D47 REMOVE EXG. PVC PIPE FROM FASCIA AND WALL. P.T.M.E. OPENING IN CMU WALL.
 - D48 REMOVE EXG. PLUMBING VENT. P.T.M.E. METAL DECK/FASTENERS/FRAME.



1 ROOF DEMOLITION PLAN
 SCALE 1/8" = 1'-0"



2 MEZZANINE DEMOLITION PLAN
 SCALE 1/8" = 1'-0"

NOT FOR CONSTRUCTION



DANE COUNTY EMERGENCY MANAGEMENT REMODEL
 5415 KING JAMES WAY
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PROJECT ARCHITECT
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DRAWN BY
 LMB
DATE
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PROJECT NUMBER
 2020-001

BASEMENT PLAN
A 1.1

FLOOR PLAN LEGEND

- EXISTING WALL TO REMAIN
- NEW WALL
- EXISTING DOOR AND FRAME TO REMAIN
- NEW DOOR AND FRAME
- DOOR NUMBER
- FIRE EXTINGUISHER
- SEMI-RECESSED FIRE EXTINGUISHER CABINET
- WALL TAG, SEE WALL TYPES SHEET A.6.2
- WINDOW TAG, SEE SHEET A2.1
- 1 HOUR FIRE-RATED WALL

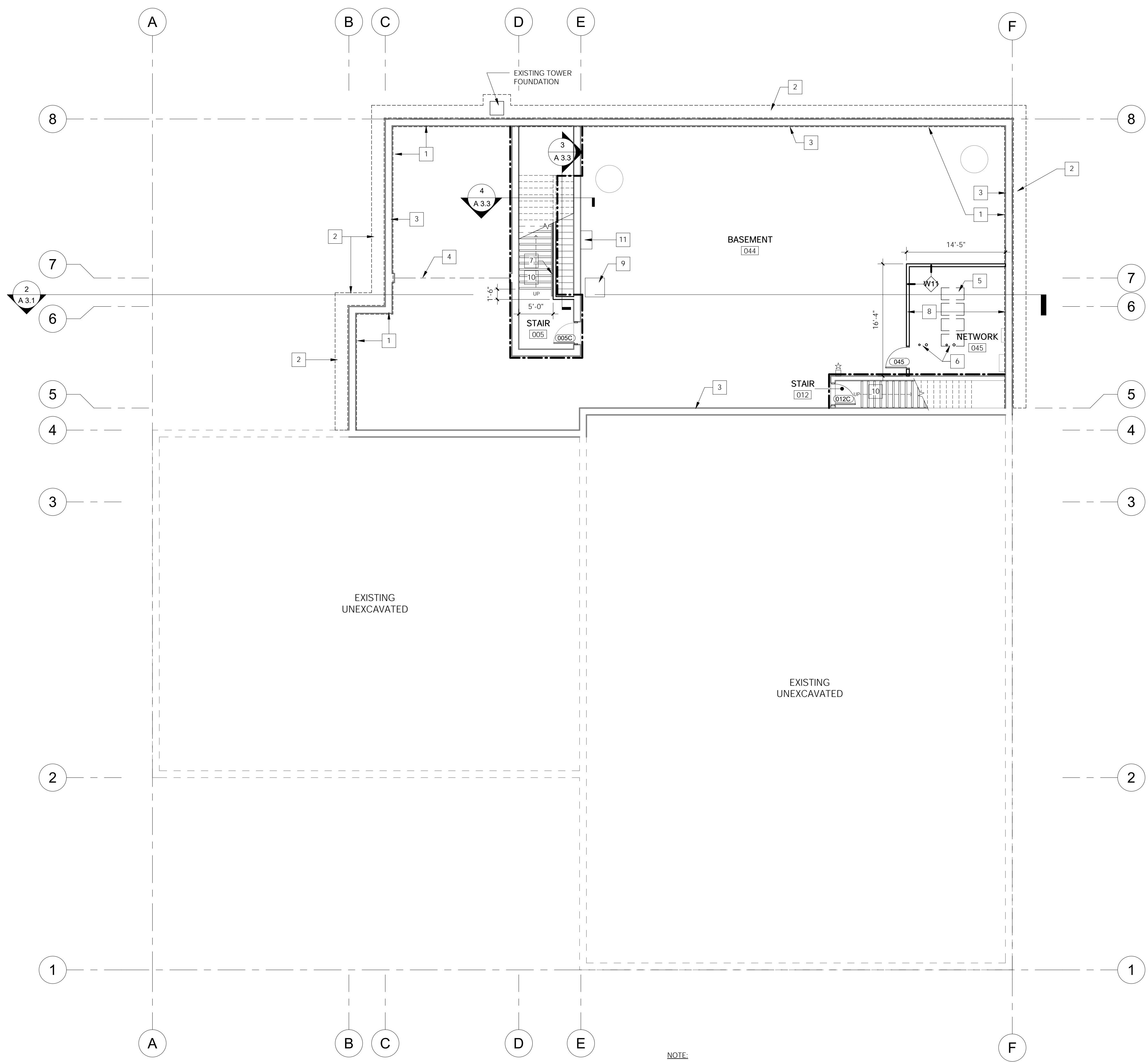
FLOOR PLAN GENERAL NOTES

1. ALL DIMENSIONS SHALL BE VERIFIED AND COORDINATED WITH ALL OF THE WORK OF ALL TRADES.
2. WHEN UNDIMENSIONED PARTITIONS APPEAR IN CONJUNCTION WITH DOOR OPENINGS, THE DOOR WIDTH AND DOOR FRAME DETAILS DETERMINE THE LOCATION OF ADJACENT WALLS AND FRAMES.
3. DOOR OPENINGS THAT ARE NOT DIMENSIONALLY LOCATED ARE TO BE CENTERED BETWEEN WALLS OR POSITIONED WITH THE HINGED JAMB 3" AWAY FROM AN ADJACENT WALL OR COLUMN AS SHOWN ON THE PLANS AND/OR DETERMINED BY THE DETAILS.
4. NOTIFY ARCHITECT IMMEDIATELY OF DISCREPANCIES.
5. PARTITIONS ARE DIMENSIONED TO THE FACE OF THE WALL UNLESS NOTED OTHERWISE.
6. TYPICAL THICKNESS OF WALLS ARE NOMINALLY 5" UNLESS NOTED OTHERWISE.
7. ALL WOOD FRAMING MEMBERS THAT REST OR ARE ATTACHED TO CONCRETE OR MASONRY SHALL BE PRESSURE TREATED OR DECAY RESISTANT IN ACCORDANCE WITH IBC SECTION 2304.11.
8. ALL EXISTING AND NEW EXPOSED STEEL TO BE PAINTED SHALL BE WIRE BRUSHED AND CLEANED PRIOR TO PAINTING. REFER TO ROOM FINISH SCHEDULE FOR PAINT COLORS.
9. PROVIDE FLASHING, TYPICAL AT ALL NEW WINDOWS, DOORS, AND OTHER OPENINGS, ETC.
10. CONTRACTOR SHALL REMOVE ALL ADHESIVES, REPAIR, PATCH, AND LEVEL FLOOR SLAB IN PREPARATION FOR NEW FLOOR FINISHES.
11. PROTECT EXISTING TRAILER AND VEHICLE FROM DAMAGE. COORDINATE RELOCATION WITH OWNER THROUGHOUT CONSTRUCTION.
12. CONTRACTOR TO FURNISH AND INSTALL ALL WOOD BLOCKING AND MOUNTING BRACKETS FOR ALL TVS, CABINETS, GLASSBOARDS, SHELVING, COUNTERTOPS, BRACKETS, AND OTHER WALL MOUNTED FIXTURES, EQUIPMENT, AND DEVICES. COORDINATE ALL LOCATIONS WITH OWNER PRIOR TO INSTALLATION.
13. CONTRACTOR TO VERIFY AND CONFIRM ALL SIZES AND LOCATIONS OF OWNER FURNISHED EQUIPMENT WITH THE OWNER PRIOR TO CONSTRUCTION OF WALLS.
14. CONTRACTOR TO VERIFY AND CONFIRM ALL WATER, POWER, AND GAS CONNECTIONS OF OWNER FURNISHED EQUIPMENT WITH THE OWNER PRIOR TO ROUGH-IN OF ALL UTILITIES.
15. CONTRACTOR SHALL PROVIDE ALL FIRE SAFING, SEALANT, FLASHINGS, FRAMES, ESCUTCHEONS AND TRIM FOR ALL EXISTING OPENINGS TO BE RE-USED OR REMAINING AND FOR ALL NEW OPENINGS.

BASEMENT PLAN KEY NOTES

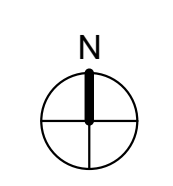
1. DRILL + INJECT URETHANE JOINT FILLER AT CONC. FOUNDATION WALL + MASONRY WALL SEE DETAIL 1/A 3.3.
2. NEW WATERPROOFING SYSTEM. SEE DETAIL 1/A 3.3.
3. SEE STRUCTURAL DRAWINGS FOR FOUNDATION CRACK REPAIR.
4. CLEAN, PRIME, AND FINISH PAINT STEEL BEAM AND NEW BASE PLATE. SEE STRUCTURAL DWGS.
5. OWNER 1" RACK LOCATIONS FOR REFERENCE ONLY. COORDINATE WITH OWNER AND LOW VOLTAGE TECHNOLOGY DWGS.
6. NEW ELECTRICAL SLEEVES THROUGH PRECAST PLANK FLOOR FOR NETWORK CABLING. SEE PL-1, STRUCT., ELEC. AND LOW VOLTAGE TECH. DWGS. VERIFY SIZE AND LOCATIONS W/ OWNER PRIOR TO FINAL LAYOUT AND SUBMISSION OF SHOP DWGS.
7. CLEAN, PAINT, AND REINSTALL EXG. WALL MOUNTED HANDRAIL. REINSTALLATION TO MEET CURRENT CODE (HEIGHT, LENGTH, AND DIAMETER).
8. 3/4" FIRE-RATED PLYWOOD SHEATHING ON ALL WALLS. SEE LOW VOLTAGE DRAWING T3.0 FOR FURTHER INFORMATION.
9. 4" HIGH CONC. MAINTENANCE PAD FOR NEW FURNACE. DOWEL INTO SLAB. COORD. SIZE AND LOCATION W/ MECH. DWGS.
10. INSTALL STAIR TREAD NOSING (ST-1). SEE FINISH LEGEND, SHEET A7.1
11. INSTALL 32"X20" SHELF FOR HUMIDIFIER. COORDINATE WITH MECHANICAL.

PRECAST CONCRETE PLANK NOTES
 SEE SHEET PL-1 FOR EXISTING PRECAST CONCRETE PLANK REQUIREMENTS

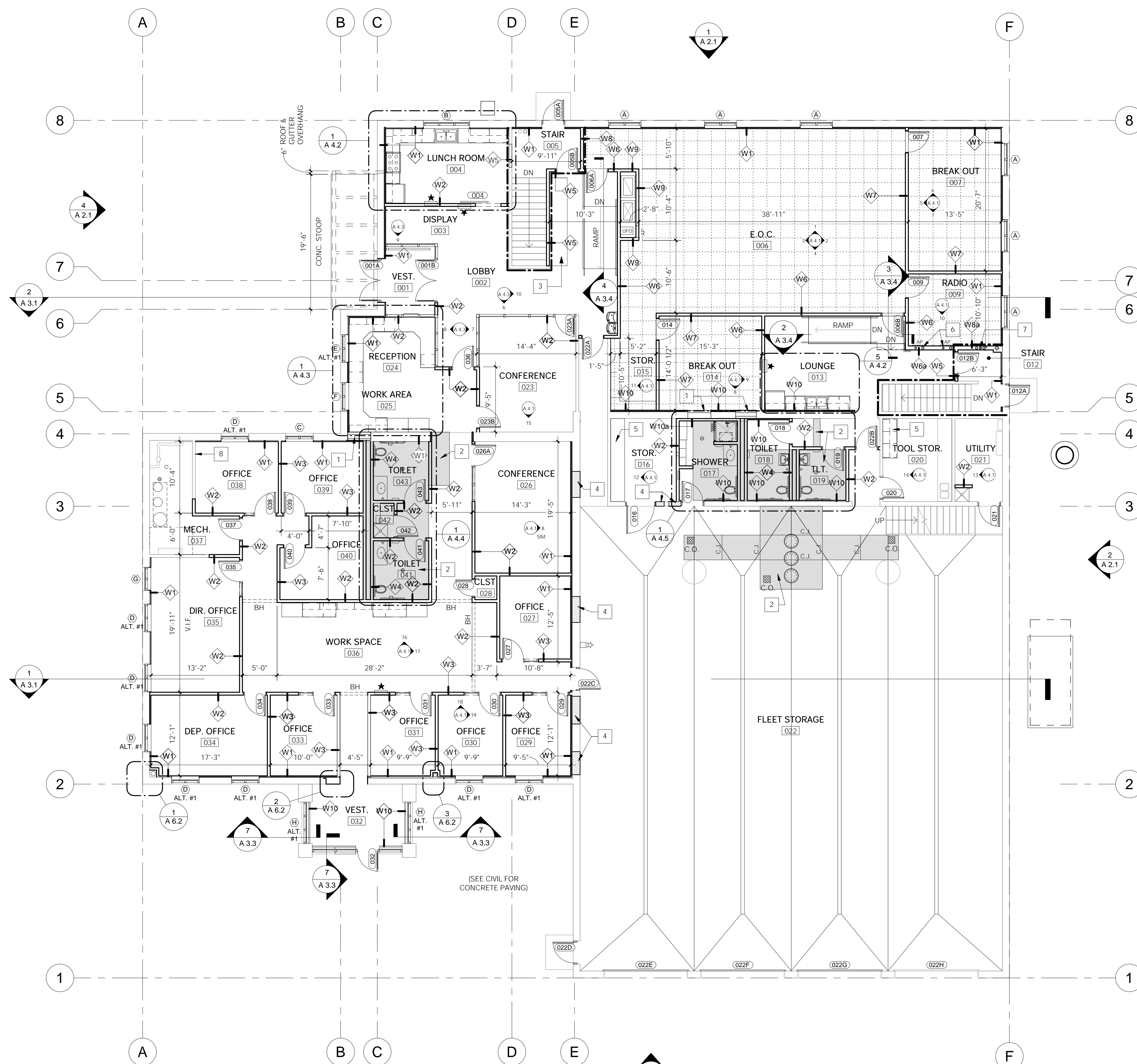


NOTE:
 1. PATCH ALL HOLES IN GWB THAT REMAINS IN PLACE. INCLUDE ALL INSULATION AND FRAMING AS REQUIRED FOR A COMPLETE INSTALLATION (P.T.M.E.).

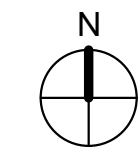
1 BASEMENT PLAN
 SCALE 1/8" = 1'-0"



NOT FOR CONSTRUCTION



1 FIRST FLOOR PLAN
SCALE 1/8" = 1'-0"



- NOTE:**
1. PATCH ALL HOLES IN CMU WALLS (EXTERIOR/INTERIOR) AND ALL CONCRETE PLANK FLOORING AND SLAB EDGES (P.T.M.E.).
 2. PATCH ALL HOLES IN GWB THAT REMAINS IN PLACE, INCLUDE ALL INSULATION AND FRAMING AS REQUIRED FOR A COMPLETE INSTALLATION (P.T.M.E.).
 3. BACK TO BACK J-BOXES ARE NOT ALLOWED. ALL J-BOXES IN OFFICES, CONFERENCE ROOMS, AND BREAK-OUT ROOMS SHALL BE SEALED AND CAULKED TO REDUCE SOUND TRANSMISSION THROUGHOUT THE FACILITY.
 4. PROVIDE WALL MOUNTED APs (ACCESS DOORS/PANELS) AS NOTED AND AS REQUIRED BY OWNER.

FLOOR PLAN LEGEND

- EXISTING WALL TO REMAIN
- NEW WALL
- EXISTING DOOR AND FRAME TO REMAIN
- NEW DOOR AND FRAME
- DOOR NUMBER, SEE SHEET A 6.1
- FIRE EXTINGUISHER
- SEMI-RECESSED FIRE EXTINGUISHER CABINET
- WALL TAG, SEE SHEET A 6.2
- WINDOW TAG, SEE SHEET A 2.1
- 1 HOUR FIRE-RATED WALL
- RAISED ACCESS FLOOR
- INDICATES AREA OF NEW CONCRETE FLOOR SLAB INFILL. SEE STRUCTURAL DRAWINGS.

FLOOR PLAN GENERAL NOTES

1. ALL DIMENSIONS SHALL BE VERIFIED AND COORDINATED WITH ALL OF THE WORK OF ALL TRADES.
2. WHEN UNDIMENSIONED PARTITIONS APPEAR IN CONJUNCTION WITH DOOR OPENINGS, THE DOOR WIDTH AND DOOR FRAME DETAILS DETERMINE THE LOCATION OF ADJACENT WALLS AND FRAMES.
3. DOOR OPENINGS THAT ARE NOT DIMENSIONALLY LOCATED ARE TO BE CENTERED BETWEEN WALLS OR POSITIONED WITH THE HINGED JAMB 3" AWAY FROM AN ADJACENT WALL OR COLUMN AS SHOWN ON THE PLANS AND/OR DETERMINED BY THE DETAILS.
4. NOTIFY ARCHITECT IMMEDIATELY OF DISCREPANCIES.
5. PARTITIONS ARE DIMENSIONED TO THE FACE OF THE WALL UNLESS NOTED OTHERWISE.
6. TYPICAL THICKNESS OF WALLS ARE NOMINALLY 5" UNLESS NOTED OTHERWISE.
7. ALL WOOD FRAMING MEMBERS THAT REST OR ARE ATTACHED TO CONCRETE OR MASONRY SHALL BE PRESSURE TREATED OR DECAY RESISTANT IN ACCORDANCE WITH IBC SECTION 2304.11.
8. ALL EXISTING AND NEW EXPOSED STEEL TO BE PAINTED SHALL BE WIRE BRUSHED AND CLEANED PRIOR TO PAINTING. REFER TO ROOM FINISH SCHEDULE FOR PAINT COLORS.
9. PROVIDE FLASHING, TYPICAL AT ALL NEW WINDOWS, DOORS, AND OTHER OPENINGS, ETC.
10. CONTRACTOR SHALL REMOVE ALL ADHESIVES, REPAIR, PATCH, AND LEVEL FLOOR SLAB IN PREPARATION FOR NEW FLOOR FINISHES.
11. PROTECT EXISTING TRAILER AND VEHICLE FROM DAMAGE. COORDINATE RELOCATION WITH OWNER THROUGHOUT CONSTRUCTION.
12. CONTRACTOR TO FURNISH AND INSTALL ALL WOOD BLOCKING AND MOUNTING BRACKETS FOR ALL TVs, CABINETS, GLASSBOARDS, SHELVING, COUNTERTOP BRACKETS, AND OTHER WALL MOUNTED FIXTURES, EQUIPMENT, AND DEVICES. COORDINATE ALL LOCATIONS WITH OWNER PRIOR TO INSTALLATION.
13. CONTRACTOR TO VERIFY AND CONFIRM ALL SIZES AND LOCATIONS OF OWNER FURNISHED EQUIPMENT WITH THE OWNER PRIOR TO CONSTRUCTION OF WALLS.
14. CONTRACTOR TO VERIFY AND CONFIRM ALL WATER, POWER, AND GAS CONNECTIONS OF OWNER FURNISHED EQUIPMENT WITH THE OWNER PRIOR TO ROUGH-IN OF ALL UTILITIES.
15. CONTRACTOR SHALL PROVIDE ALL FIRE SAFING, SEALANT, FLASHINGS, FRAMES, ESCUTCHEONS AND TRIM FOR ALL EXISTING OPENINGS TO BE RE-USED OR REMAINING AND FOR ALL NEW OPENINGS.

FIRST FLOOR PLAN KEY NOTES

1. INFILL DOOR OPENING W/ 3-5/8" 20 GAUGE MTL STUDS, 5/8" GWB., AND SOUND ATTENUATION BATTS.
2. AREA OF NEW CONCRETE SLAB INFILL - SEE STRUCT. DWGS.
3. NEW FLOOR, SEE STRUCTURAL DRAWINGS.
4. CMU INFILL AT DOOR/WINDOW OPENING, SEE STRUCT. DWG. DETAIL 9/S4.1
5. MODIFIED S.S. COUNTER TOP. PROVIDE ALL CUTTING, WELDING, POLISHING, ATTACHMENTS, ETC. AS REQ'D.
6. NEW ELECTRICAL SLEEVES THROUGH PRECAST PLANK FLOOR FOR NETWORK CABLING. SEE PL-1, STRUCT., ELEC. AND LOW VOLTAGE TECH. DWGS. VERIFY SIZE AND LOCATIONS W/ OWNER PRIOR TO FINAL LAYOUT AND SUBMISSION OF SHOP DWGS.
7. (3) 4" CONDUIT IN WALL FOR RADIO WIRING (RUN FROM MEZZANINE RADIO CLOSET TO RAISED ACCESS FLOOR). VERIFY SIZE & LOCATION W/ OWNER PRIOR TO FINAL LAYOUT & SUBMISSION OF SHOP DWGS.
8. ADD SOUND ATT. BATT AND GWB UP TO ROOF DECK TO EXG. WALL.

PRECAST CONCRETE PLANK NOTES

SEE SHEET PL-1 FOR EXISTING PRECAST CONCRETE PLANK REQUIREMENTS

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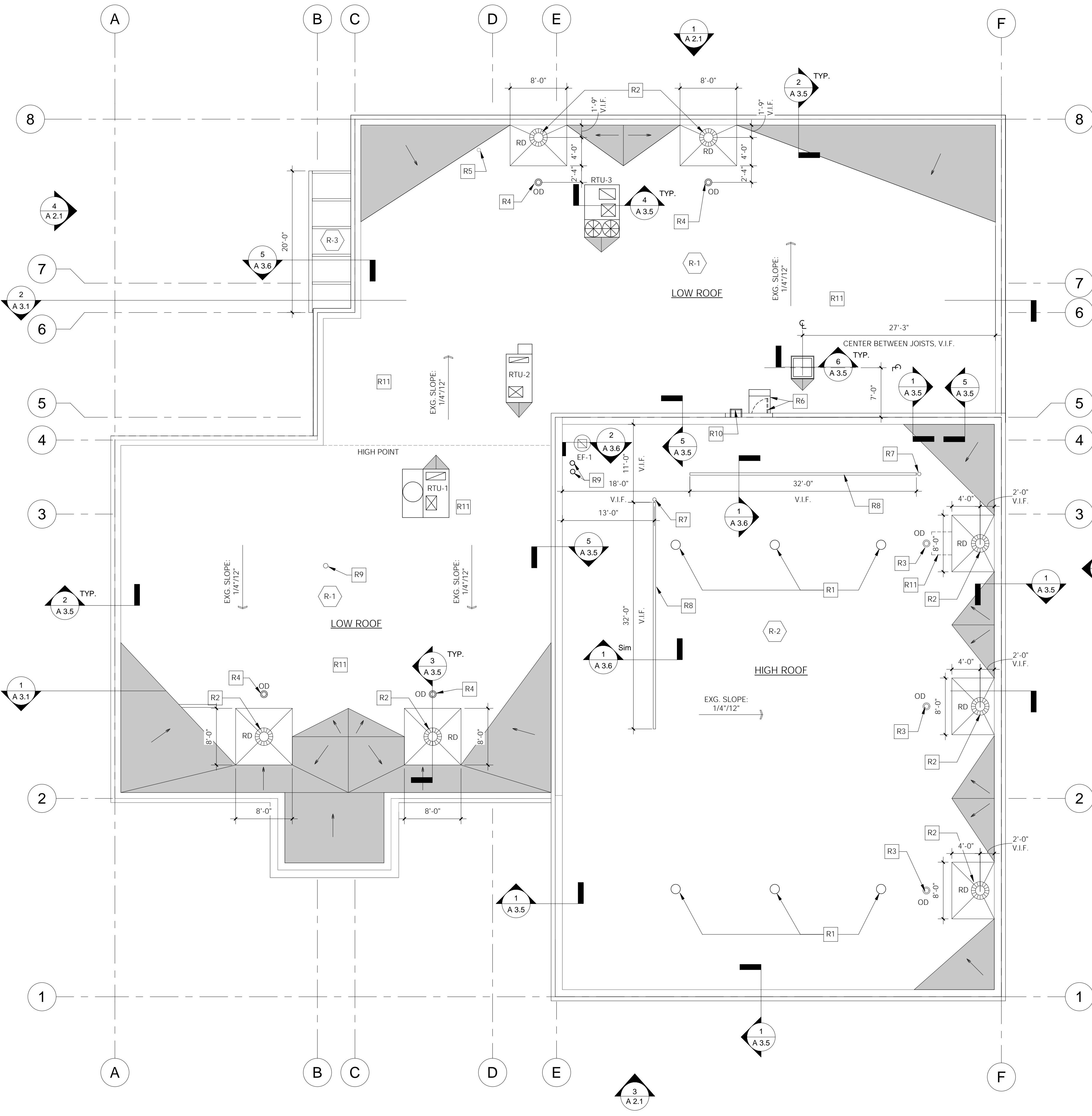
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FIRST FLOOR PLAN
A 1.2

NOT FOR CONSTRUCTION



2 ROOF PLAN
SCALE 1/8" = 1'-0"

ROOF LEGEND

- ROOF INSULATION CRICKET
- ROOF DRAIN (RD)
- ROOF OVERFLOW DRAIN (OD)
- INDICATES DOWNWARD SLOPE OF ROOF STRUCTURE
- INDICATES DOWNWARD SLOPE TAPERED INSULATION
- VENT STACK, PIPE OR CONDUIT
- SKYLIGHT
- AIR HANDLING UNIT

ROOF TYPES

- R-1 NEW ASSEMBLY:**
- MODIFIED BITUMINOUS MEMBRANE
- 1/4" DENSDECK RECOVERY BOARD
- TWO (2) LAYERS OF 2.6" POLYISOCYANURATE INSULATION, MECHANICALLY FASTENED
- R-2 NEW ASSEMBLY:**
- MODIFIED BITUMINOUS MEMBRANE
- 1/4" DENSDECK RECOVERY BOARD
- TWO (2) LAYERS OF 2.6" POLYISOCYANURATE INSULATION, MECHANICALLY FASTENED
INSTALL OVER EXISTING 1/2" WOOD FIBER BOARD
- R-3 GLASS CANOPY.** SEE SECTION DETAIL 4/A3.6 AND STRUCTURAL DWGS.

ROOF PLAN KEY NOTES

- R1** NEW INFRARED HEATER VENT STACK IN EXG. LOCATION. FLASH AND SEAL PER DRAWING DETAIL 3/A3.6.
- R2** NEW ROOF DRAIN. RE-WORK PIPING PER PLUMBING DRAWINGS.
- R3** NEW OVERFLOW ROOF DRAIN. RE-WORK PIPING PER PLUMBING DRAWINGS.
- R4** NEW OVERFLOW ROOF DRAIN. SEE PLUMBING DRAWINGS.
- R5** EXISTING ELECTRICAL SLEEVE TO REMAIN. PROVIDE WEATHER GUARD/ SERVICE CAP. FLASH AND SEAL PER DRAWING DETAIL.
- R6** ROOF ACCESS WITH P.T. WOOD LANDING AND STEP.
- R7** NEW 6" ELECTRICAL SLEEVE. PROVIDE WEATHER GUARD/ SERVICE CAP. CONFIRM SIZE, HEIGHT, AND LOCATION WITH OWNER.
- R8** NEW EQUIPMENT (ANTENNA) SUPPORT RAIL. CONFIRM AND VERIFY FINAL SIZE, LOCATION, AND HEIGHT WITH OWNER. SEE STRUCT. DWGS.
- R9** NEW EXHAUST FAN GOOSENECK. SEE MECH. DWGS.
- R10** UPPER ROOF ACCESS LADDER. SEE DETAIL 4/A 3.6
- R11** FILL IN VOID/ OPENING WITH METAL DECK, P.T.M.E. SEE STRUCTURAL DWGS.

ROOF PLAN GENERAL NOTES

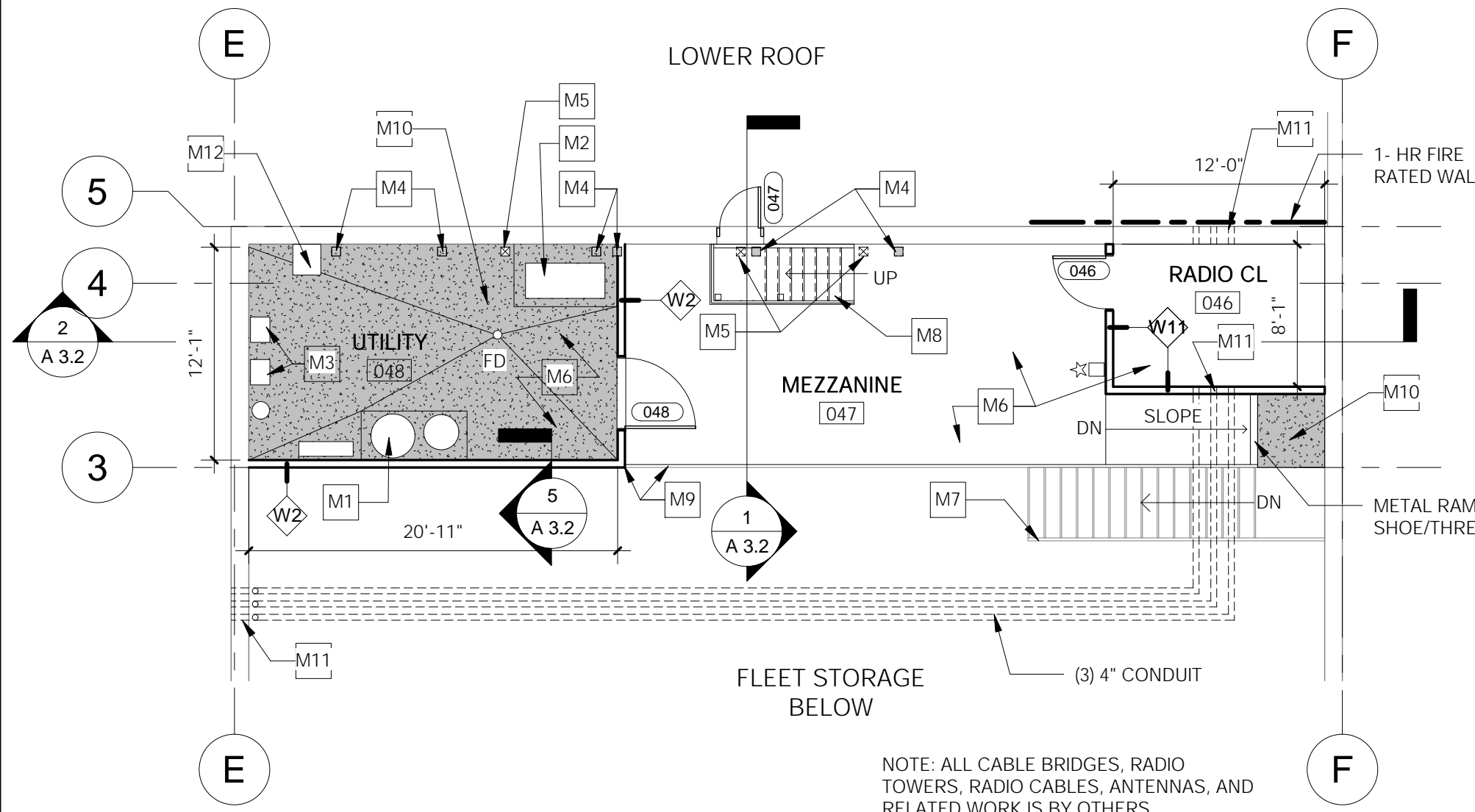
1. TAPERED ROOF INSULATION SHALL SLOPE AT 1/4" PER 1'-0".
2. SHOP DRAWING DESIGN AND INSTALLATION OF TAPERED INSULATION MUST ACCOUNT FOR CAMBER IN STRUCTURE TO ENSURE THAT THE ROOF DRAINS AS DESIGNED.
3. AT MECHANICAL OPENINGS AND CURBS ON ROOF, PROVIDE CRICKETS AS REQUIRED FOR POSITIVE DRAINAGE.
4. MECHANICAL LOCATIONS ARE SHOWN FOR REFERENCE ONLY. REFER TO MECHANICAL DRAWINGS FOR EXTENT OF MECHANICAL EQUIPMENT, SIZE AND LOCATION OF ALL ROOF TOP PENETRATIONS.
5. ALL MECHANICAL AND ELECTRICAL ROOF TOP EQUIPMENT, PIPING, CONDUIT, ETC. TO BE PRIME AND FINISH PAINTED.
6. COORDINATE ROOF AND OVERFLOW DRAIN LOCATIONS WITH STRUCTURAL COMPONENTS TO AVOID LOCATING ROOF AND OVERFLOW DRAINS OVER TOP OF BEAMS OR JOISTS.
7. ALL ROOFING WORK SHALL BE PERFORMED IN STRICT ACCORDANCE WITH MANUFACTURER'S WRITTEN RECOMMENDATIONS.
8. ALL EXISTING SPLICE PLATES OF THE METAL FASCIA/COPING SYSTEM SHALL BE REMOVED. INSTALL NEW SPLICE PLATES, ANCHORS, AND CAULKING. PAINT TO MATCH FASCIA SYSTEM.

MEZZANINE PLAN KEY NOTES

- M1** R.O. SYSTEM ON 4" CONC. PAD. SEE MEP DWGS.
- M2** REINSTALL EXISTING COMPRESSOR ON NEW 4" CONC. PAD. SEE MECH. DWGS.
- M3** WALL MOUNTED TANKLESS WATER HEATERS. SEE MEP DWGS.
- M4** INFILL EXG. HOLES IN PRECAST FLOOR PLANKS. SEE SHEET PL-1, DETAIL 4.
- M5** NEW DUCTWORK THROUGH EXG. FLOOR HOLES. SEE MECH. DWGS.
- M6** 2" CONC. TOPPING. SLOPE TO DRAIN IN UTILITY ROOM. SEE STRUCT. DWGS.
- M7** MODIFY EXISTING HANDRAIL TO MEET CURRENT CODE. SEE DETAIL 6/A3.2
- M8** NEW WELDED ALUMINUM PREFAB STAIRWAY, LANDING, AND RAILING. FSI INDUSTRIES (S3668-AJ) W/ 36" LANDING AND I-BAR GRATING TREADS, OR APPROVED EQUAL.
- M9** MODIFY EXISTING GUARDRAIL AND ATTACH TO NEW WALL. VERIFY HEIGHT MEETS CODE AFTER CONC. FLOOR TOPPING IS INSTALLED. SEE DETAIL 7/A 3.2
- M10** EPOXY FLOOR FINISH. ERF-1/EB-1(UTILITY RM). SEE ROOM FINISH LEGEND. WATERPROOF MEMBRANE (Laticrete HydroBan OR EQUAL) UNDER CONCRETE TOPPING IN UTILITY ROOM.
- M11** (3) 4" SLEEVES THROUGH WALLS. CONFIRM AND VERIFY FINAL SIZE, QUANTITY, AND LOCATION W/ OWNER PRIOR TO INSTALLATION.
- M12** WALL MOUNTED BOILER. SEE MEP DRAWINGS.

PRECAST CONCRETE PLANK NOTES

SEE SHEET PL-1 FOR EXISTING PRECAST CONCRETE PLANK REQUIREMENTS



1 MEZZANINE PLAN
SCALE 1/8" = 1'-0"

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MEZZANINE + ROOF PLAN
A 1.3

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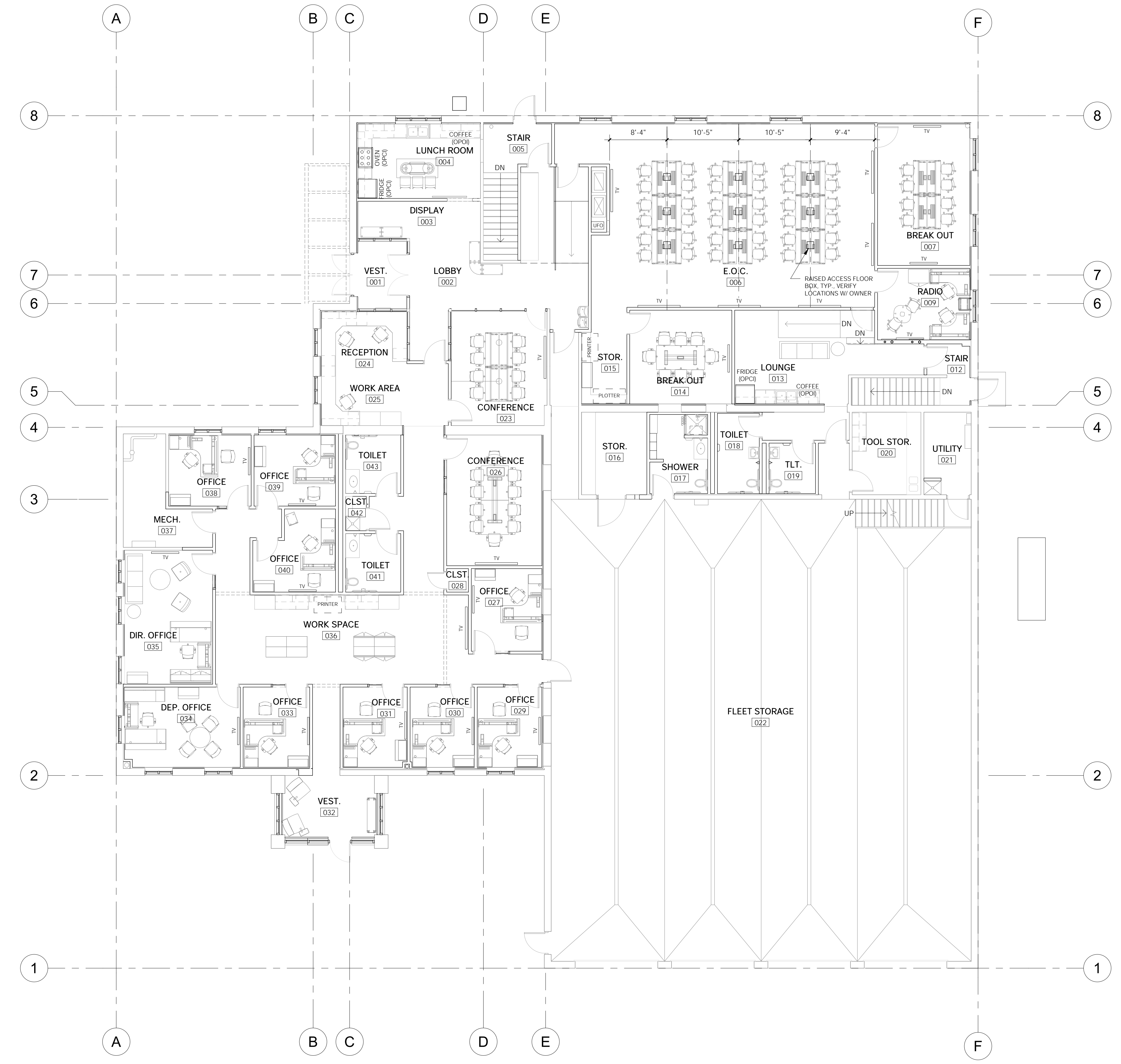
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EQUIPMENT + FURNITURE PLAN
A 1.4

EQUIPMENT PLAN GENERAL NOTES

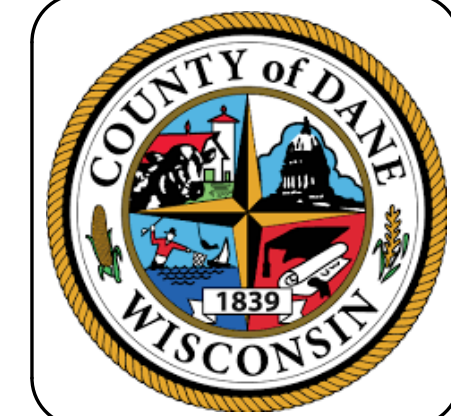
- CONTRACTOR TO FURNISH AND INSTALL ALL WOOD BLOCKING AND MOUNTING BRACKETS FOR ALL TVs, CABINETS, GLASSBOARDS, SHELVING, COUNTERTOP BRACKETS, AND OTHER WALL MOUNTED FIXTURES, EQUIPMENT, AND DEVICES. COORDINATE WITH OWNER PRIOR TO INSTALLATION.
- CONTRACTOR TO VERIFY AND CONFIRM ALL SIZES AND LOCATIONS OF OWNER FURNISHED EQUIPMENT WITH THE OWNER PRIOR TO CONSTRUCTION OF WALLS.
- CONTRACTOR TO VERIFY AND CONFIRM ALL WATER, POWER, AND GAS CONNECTIONS OF OWNER FURNISHED EQUIPMENT WITH THE OWNER PRIOR TO ROUGH-IN OF ALL UTILITIES.



1 EQUIPMENT + FURNITURE PLAN
 SCALE 1/8" = 1'-0"

FURNITURE PLAN FOR REFERENCE ONLY
 CONTRACTOR TO VERIFY AND CONFIRM THE OWNER'S FINAL FURNITURE LAYOUT AND DETAILS W/ THE OWNER PRIOR TO EACH CONSTRUCTION PHASE.

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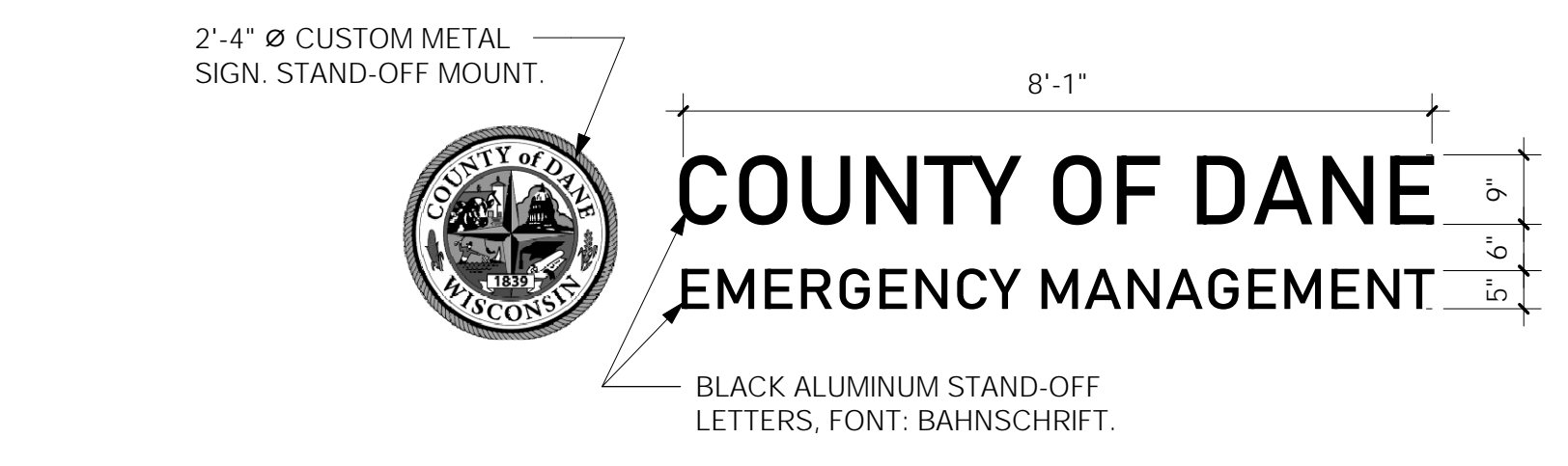
BUILDING ELEVATIONS
A 2.1

EXTERIOR ELEVATION KEY NOTES

- E1 NEW ROOF ACCESS LADDER. SEE DETAIL 4/A3.6
- E2 NEW STEEL STRUCTURE (COLOR: BLACK) AND TEMPERED/LAMINATED GLASS CANOPY. SEE DETAIL 5/A3.6 AND STRUCT. DWGS.
- E3 EXISTING METAL FASCIA, PAINTED (TYP. ALL). COLOR: SW7076 CYBERSPACE.
- E4 REMOVE EXG. METAL FASCIA @ DOOR + LADDER LOCATION. PROVIDE NEW METAL FASCIA INFILL ABOVE. EPOXY PAINT EXG. CMU BEHIND REMOVED FASCIA. COLOR: SW7076 CYBERSPACE.
- E5 EXISTING RADIO TOWER TO REMAIN.
- E6 EXG. ROOF DRAIN NOZZLE/SCUPPER TO REMAIN. THE NEW OVERFLOW DRAINS TO OPENING. SEE PLUMBING DWGS.
- E7 REMOVE EXISTING DOWNSPOUTS AND SCUPPERS. PATCH OPENINGS IN METAL FASCIA. P.T.M.E.
- E8 EXG. ROOF OVERFLOW DRAIN NOZZLE TO REMAIN. SEE PLUMBING DWGS.
- E9 REMOVE EXG. ROOF DRAIN NOZZLE/SCUPPER. FILL HOLE WITH NEW CMU TO MATCH EXG.
- E10 EXISTING EXHAUST HOOD REMOVED AND REPLACED WITH NEW FAN. SEE MECH. & STRUCTURAL DRAWINGS. P.T.M.E.
- E11 EXISTING COLORED TILE TO BE COVERED WITH HARDIE PANEL BOARD. SEE DETAIL 7/A3.3. COLOR: SW7026 GRIFFIN.
- E12 INFILL AREA WITH MATCHING CMU WHERE EXG. DOOR HAS BEEN REMOVED. HARDIE PANEL SHEATHING PER DETAIL 7/A3.3
- E13 SCRAPE, PRIME, AND PAINT EXISTING O.H. DOOR STEEL JAMBS + HEAD. COLOR: SW7026 GRIFFIN.
- E14 INFILL AREA WITH MATCHING CMU WHERE EXG. DOOR HAS BEEN REMOVED, P.T.M.E.
- E15 BLACK ALUMINUM STAND-OFF ADDRESS, FONT: BAHNSCHRIFT, 7" HEIGHT. VERIFY ADDRESS WITH OWNER.
- E16 NEW BUILDING MOUNTED EXTERIOR LIGHTING. SEE ELEC. DWGS.
- E17 NEW H.M. FRAME & INSULATED METAL DOOR, PAINTED. COLOR: SW7026 GRIFFIN.
- E18 EXISTING OVERHEAD DOORS. CLEAN, PRIME, AND PAINT. COLOR: SW7026 GRIFFIN.
- E19 EXG. FIRE DEPT. CONNECTION TO REMAIN.
- E20 NEW BELOW GRADE WATERPROOF SYSTEM. SEE DETAIL 1/A.3.3

EXTERIOR ELEVATION GENERAL NOTES

1. COMPLETELY CLEAN EXTERIOR CMU BLOCK WALLS AND REMOVE ALL STAINS, EFFLORESCENCE, AND RUST FROM ALL SURFACES. — ALT. #2
2. REPLACE ALL CRACKED, CHIPPED, AND MISSING CMU BLOCK, P.T.M.E.
3. RAKE-OUT/REPOINT ALL DETERIORATED, MISSING, AND/OR CRACKED MORTAR JOINTS, P.T.M.E.
4. REMOVE ALL EXTERIOR SEALANT JOINTS AND INSTALL NEW BACKER ROD AND JOINT SEALANTS.
5. PROVIDE NEW WATER REPELLENT COATING AT ALL EXTERIOR CMU SURFACES. — ALT. #3
6. PROVIDE NEW WEEP SYSTEM PER DETAILS 1&2/A3.3
7. CONTRACTOR TO VERIFY AND COORDINATE RADIO TOWER INSTALLATION WITH OWNER AND CONFIRM FINAL LOCATIONS OF ALL ASSOCIATED EQUIPMENT AT ALL ROOFS, WALLS, AND SITE AREAS.
8. ALL CABLE BRIDGES, RADIO TOWERS, RADIO CABLES, ANTENNAS, AND RELATED WORK IS BY OTHERS.



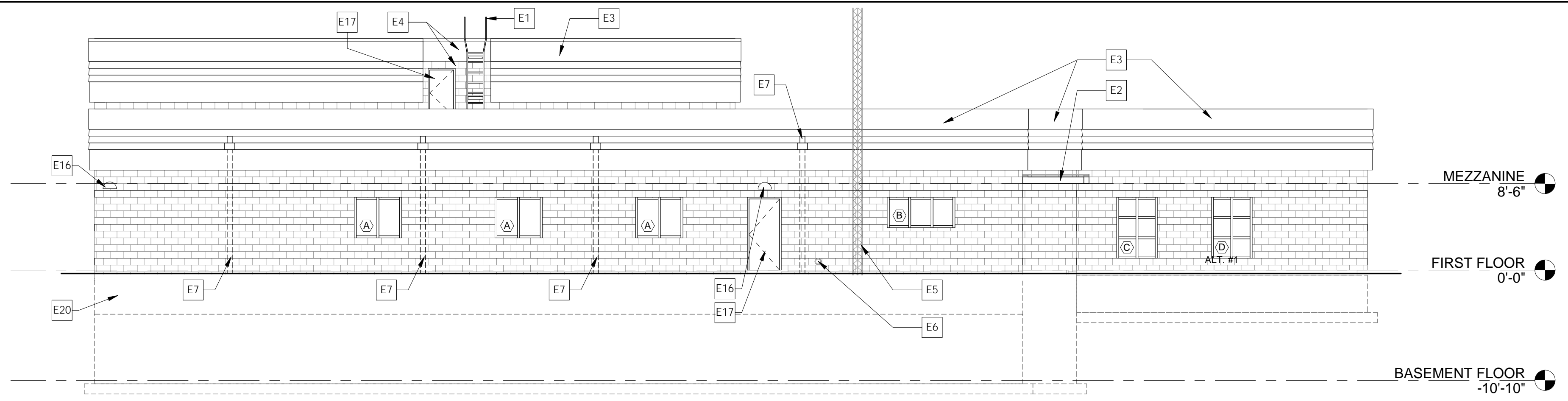
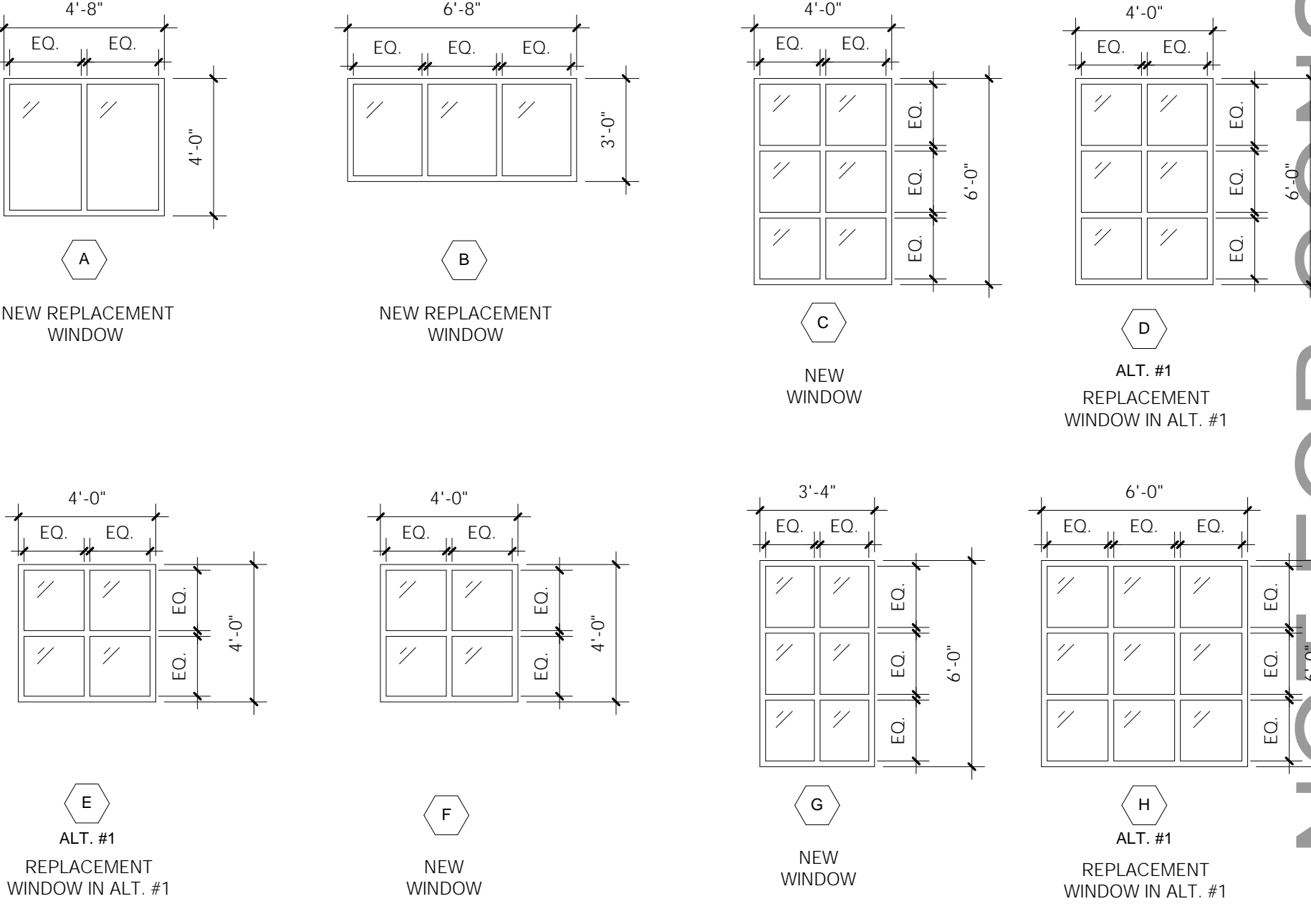
EXTERIOR SIGNAGE DETAIL

SCALE 1/2" = 1'-0"

ALUMINUM STOREFRONT WINDOW TYPES

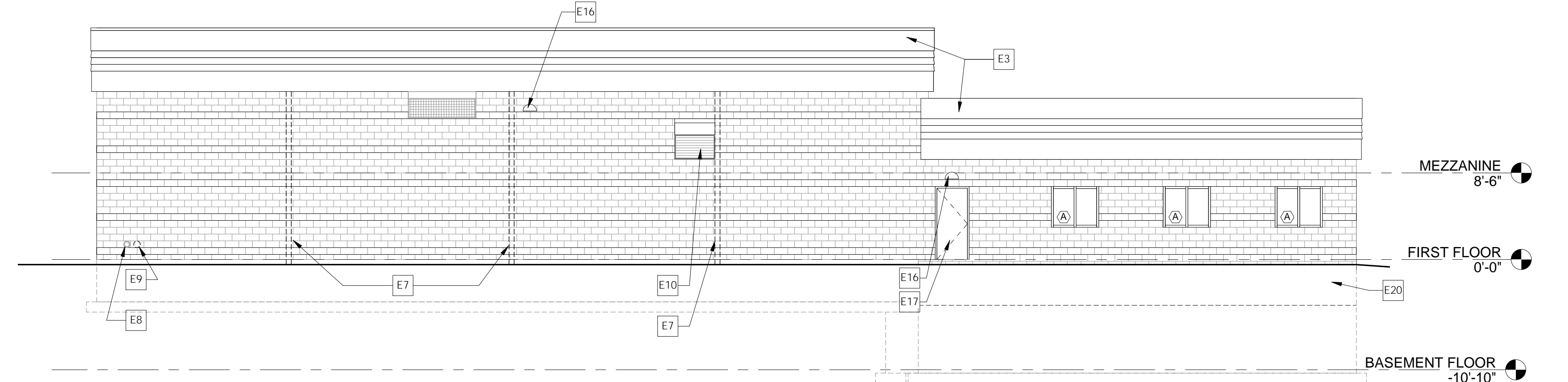
NOTES:

1. ALL WINDOWS SHALL BE STOREFRONT SYSTEM A: FIXED ALUMINUM STOREFRONT. BASIS OF DESIGN: EFCO XTHERM SERIES 526 (T). SHEAR BLOCK W/ SILL STARTER W/ END DAMS. GLASS SHALL BE LOW-E COATED, CLEAR INSULATING LAMINATED (GL-5). VERIFY FRAME COLOR WITH ARCHITECT AFTER ACCEPTANCE OR REJECTION OF ALTERNATE #1.
2. ALL DIMENSIONS OF REPLACEMENT WINDOWS SHALL BE VERIFIED IN FIELD BY CONTRACTOR.
3. IF ALTERNATE #1 IS ACCEPTED, FRAMES SHALL ALL BE BLACK FINISH. IF ALTERNATE #1 IS NOT ACCEPTED, THE FRAMES SHALL MATCH THE EXISTING FRAME COLOR.



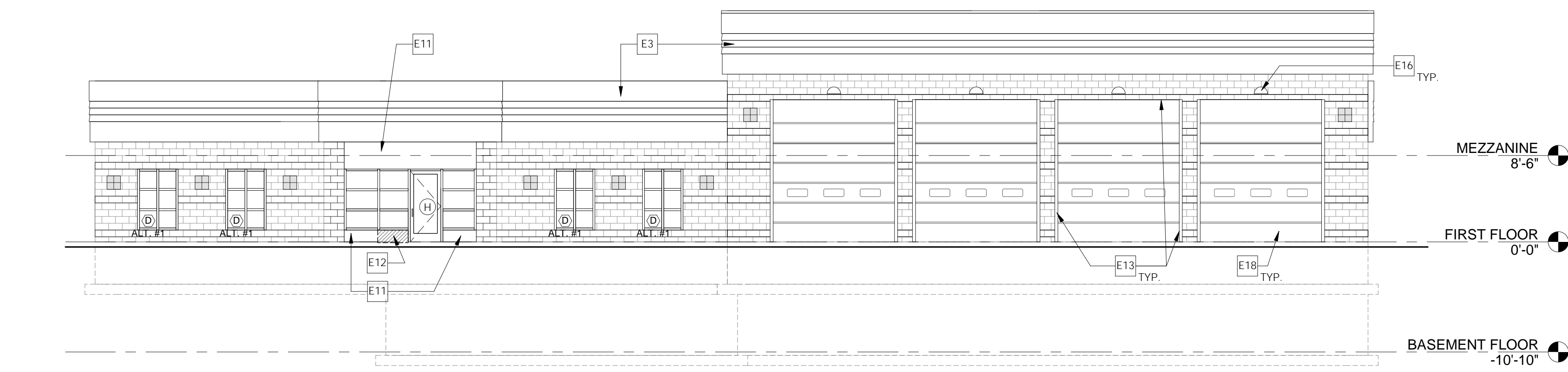
1 NORTH ELEVATION

SCALE 1/8" = 1'-0"



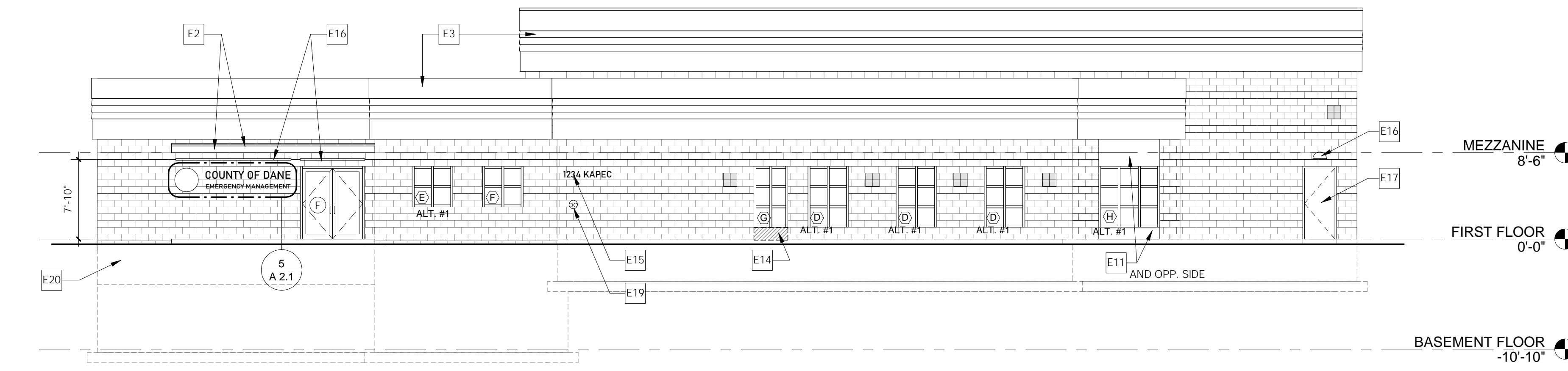
2 EAST ELEVATION

SCALE 1/8" = 1'-0"



3 SOUTH ELEVATION

SCALE 1/8" = 1'-0"



4 WEST ELEVATION

SCALE 1/8" = 1'-0"

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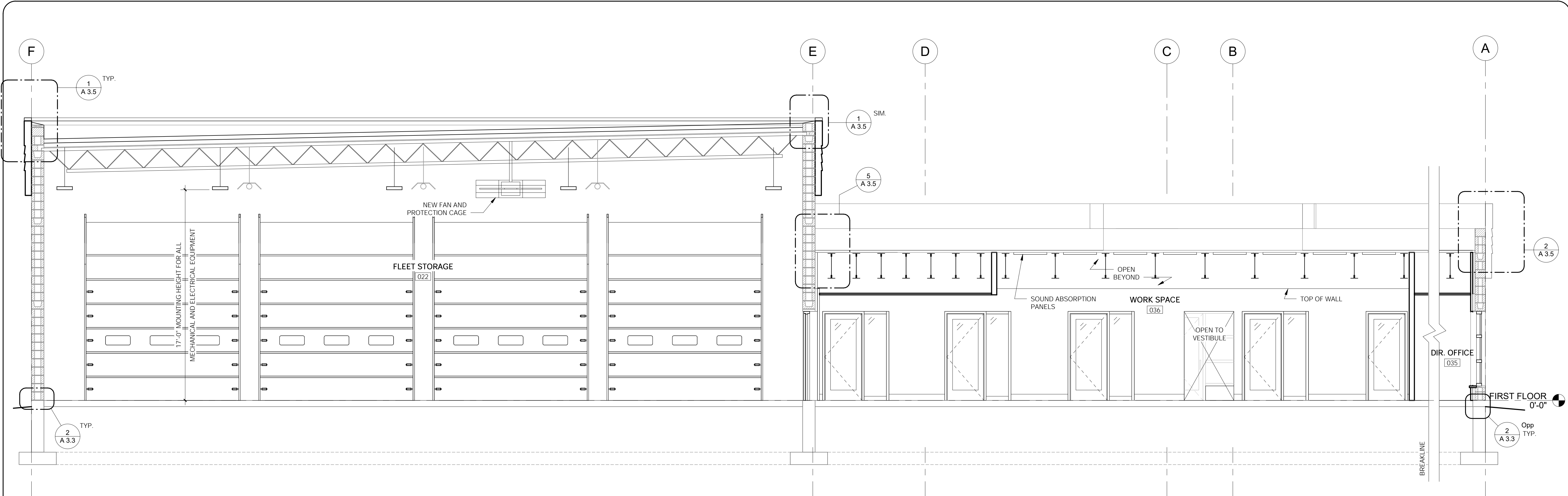
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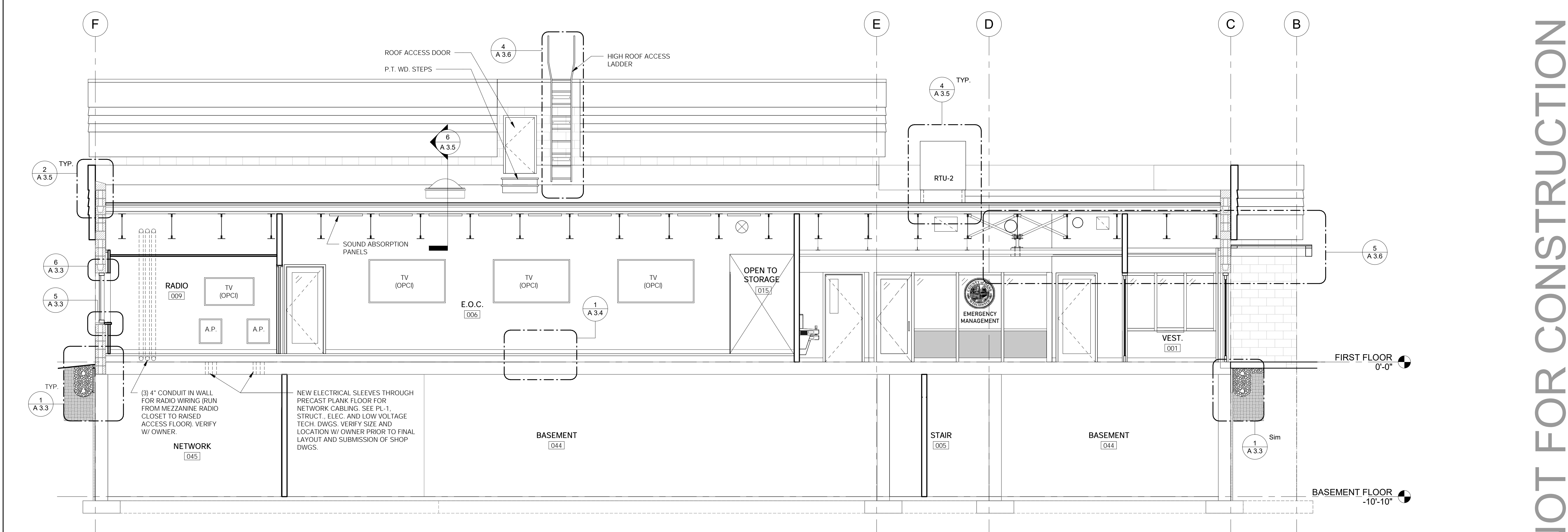
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BUILDING SECTIONS
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1 BUILDING SECTION - FLEET/WORK SPACE
 SCALE 1/4" = 1'-0"



2 BUILDING SECTION - E.O.C./ ENTRY
 SCALE 1/4" = 1'-0"

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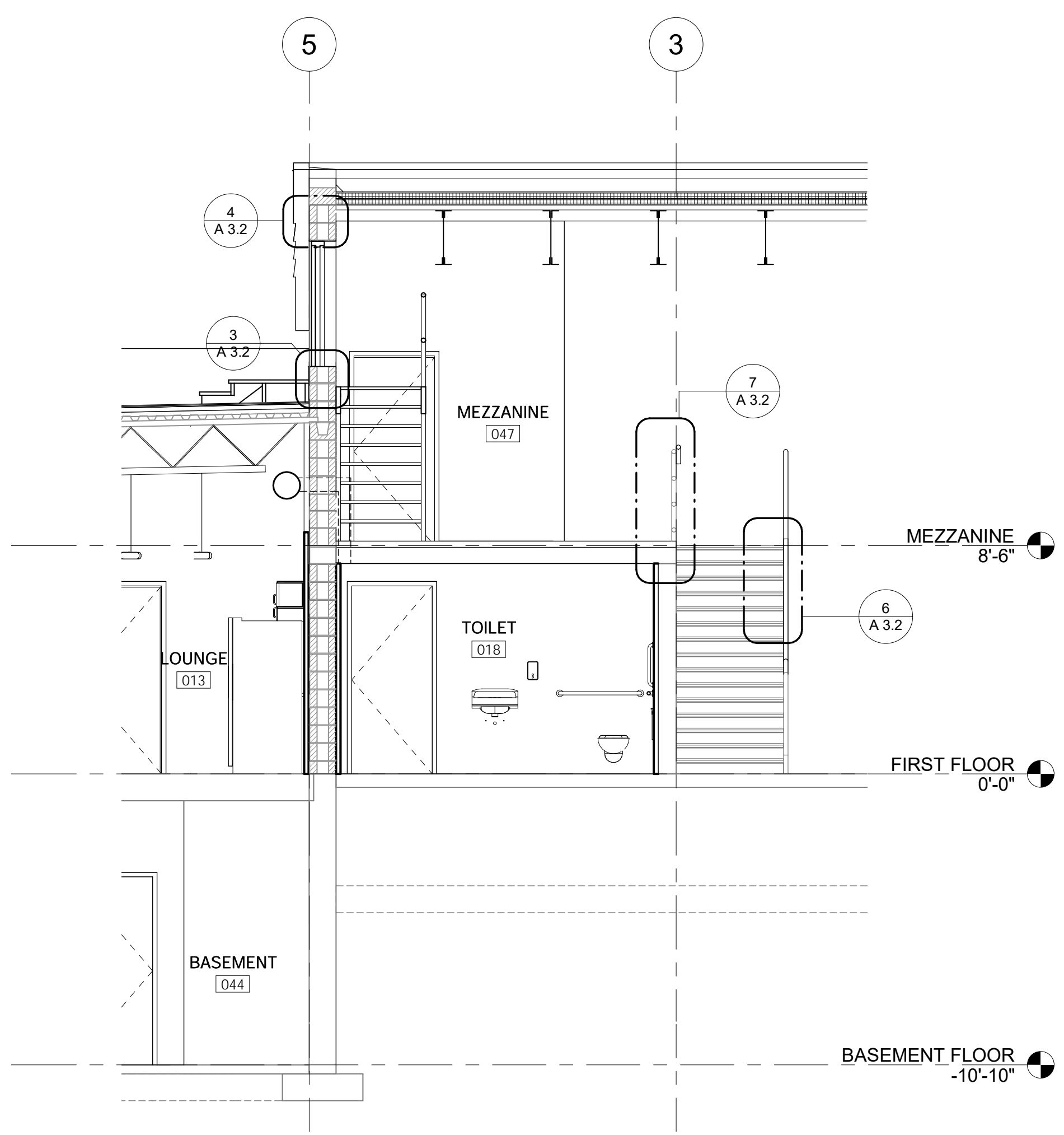
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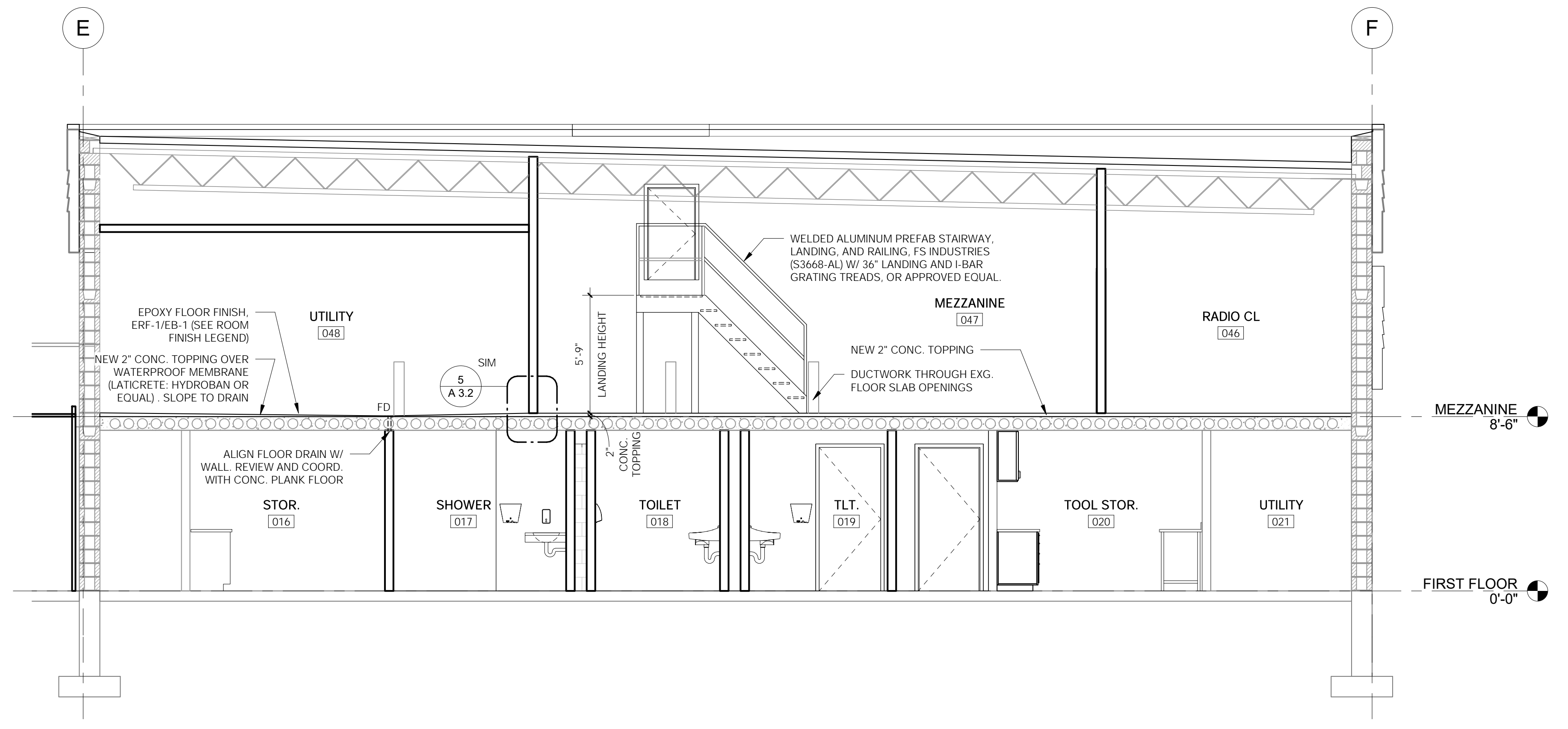
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MEZZANINE SECTIONS + DETAILS
A 3.2

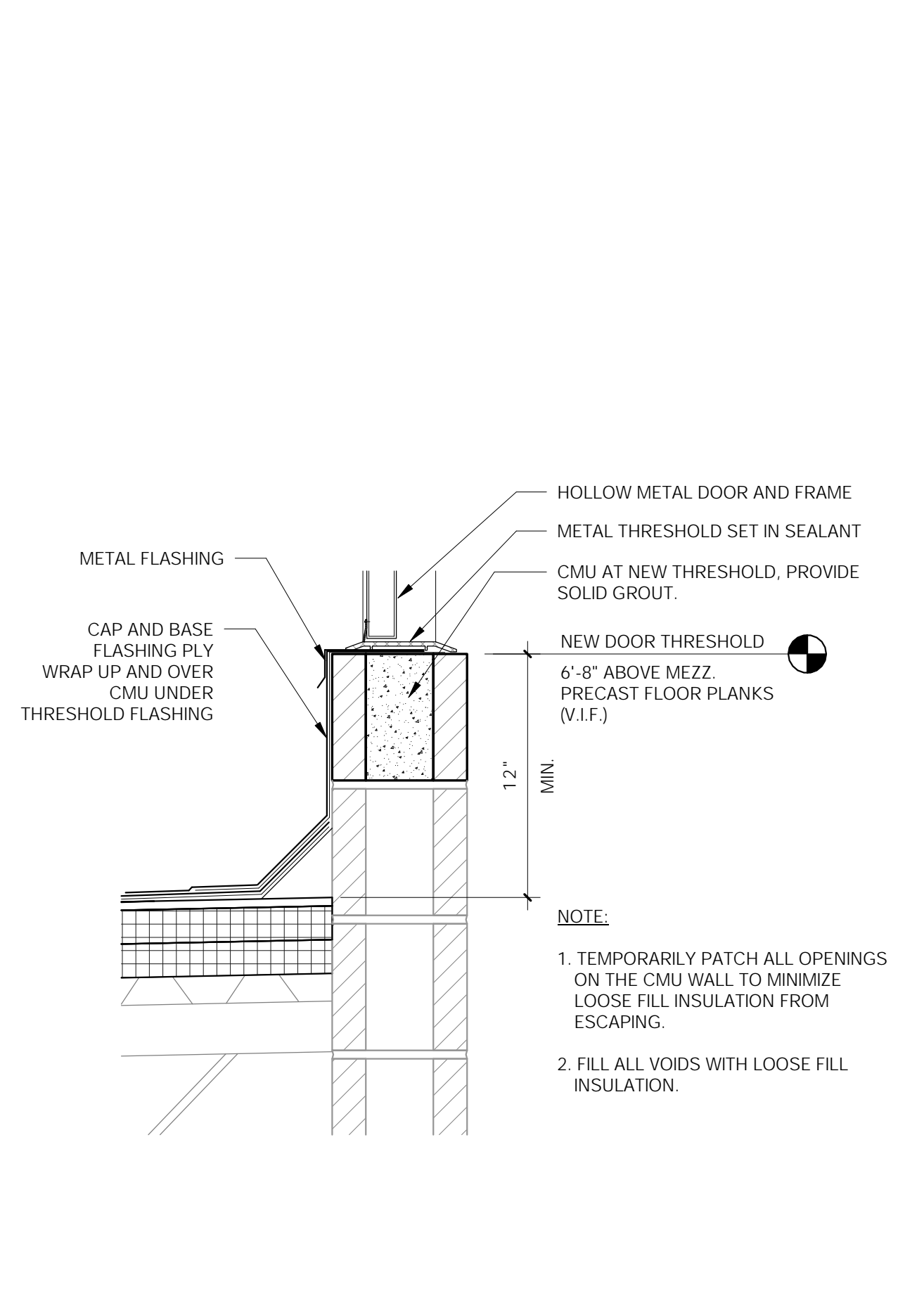
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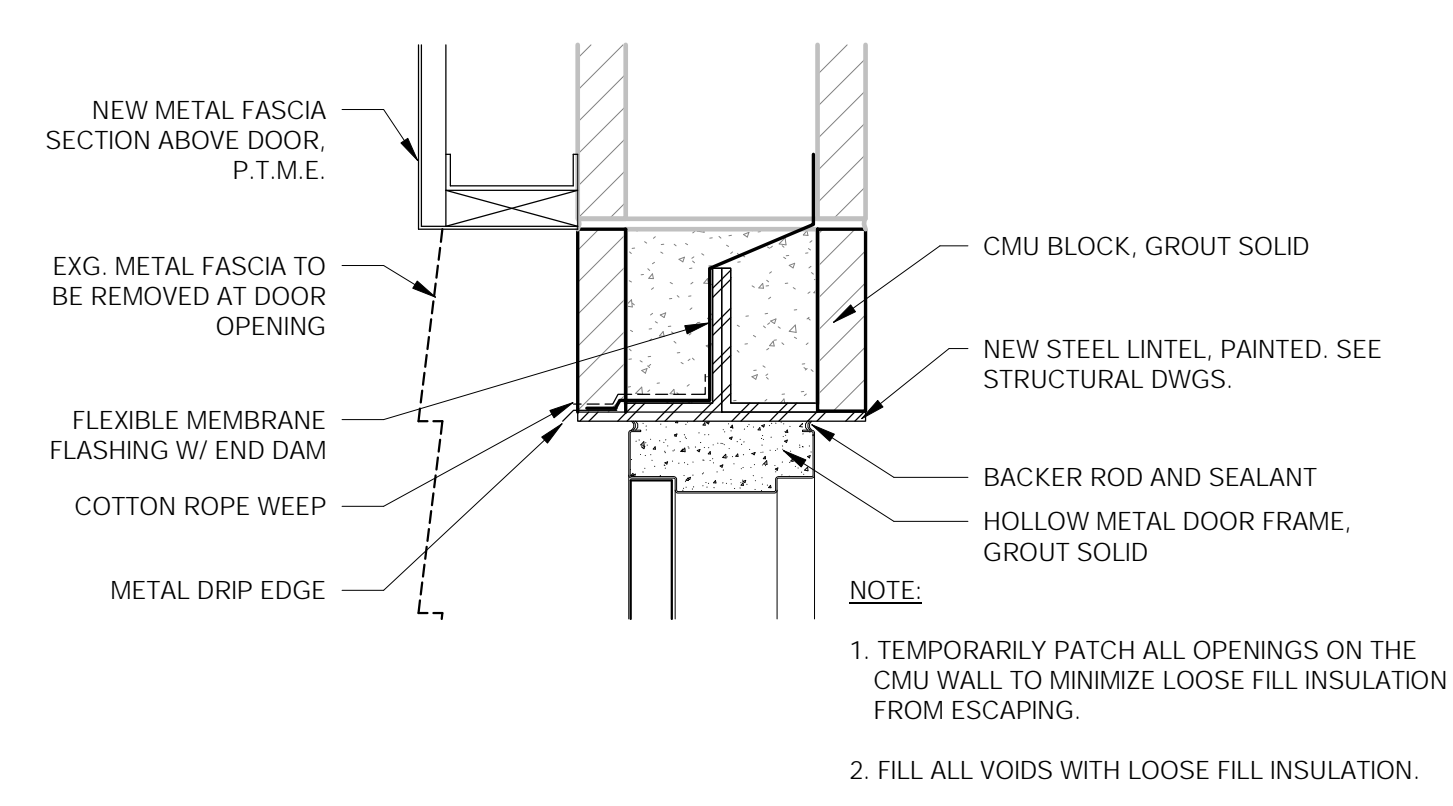
1 MEZZANINE SECTION 1
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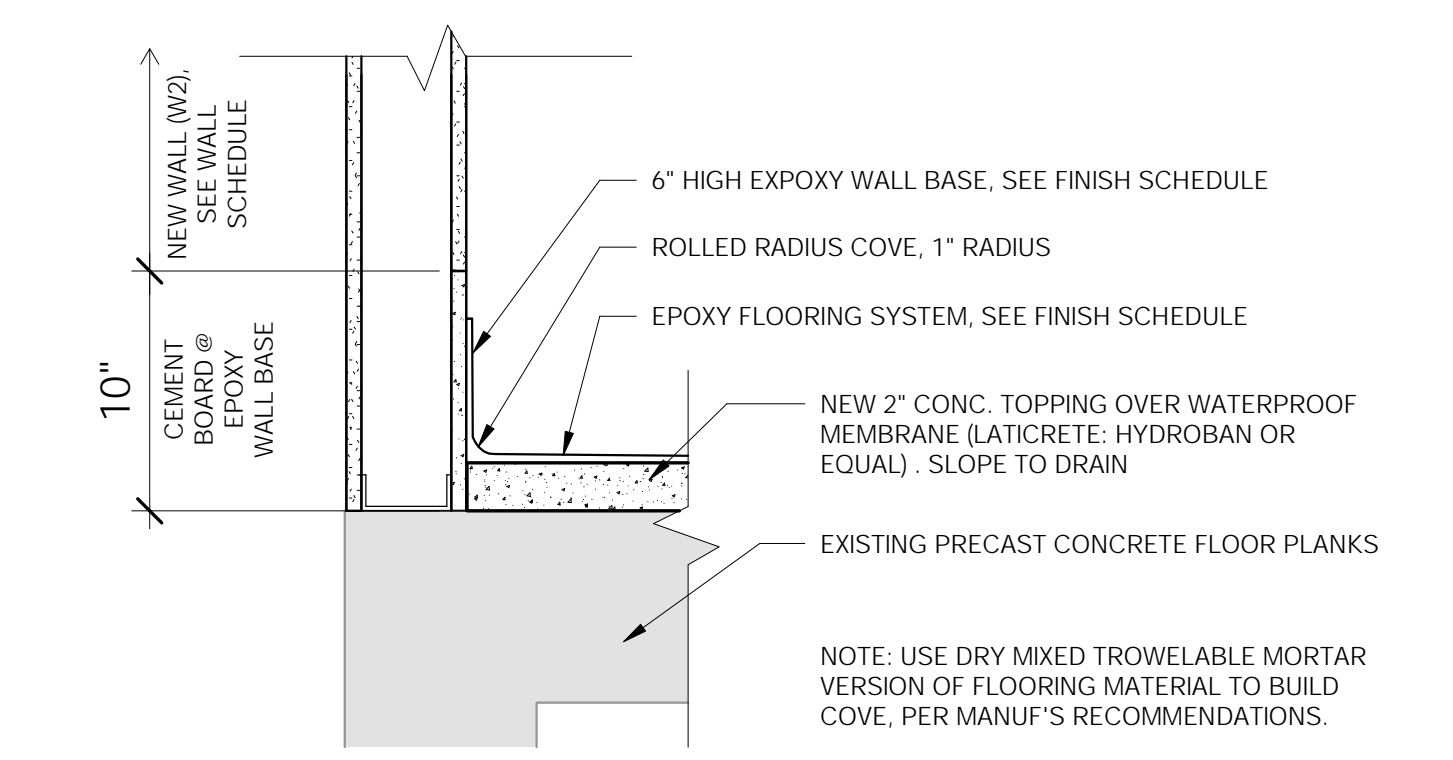
2 MEZZANINE SECTION 2
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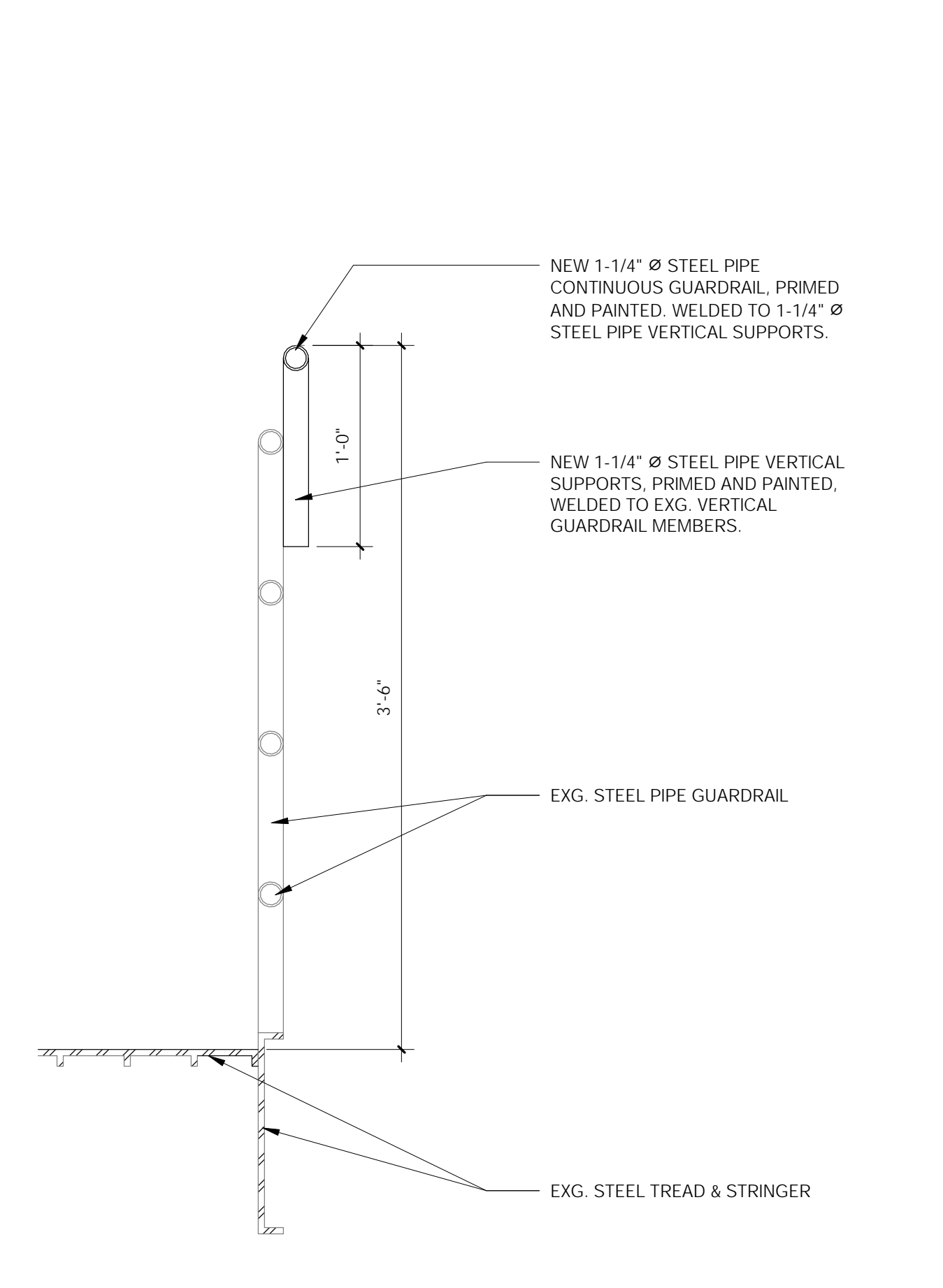
3 ROOF ACCESS DOOR THRESHOLD
 SCALE 1 1/2" = 1'-0"



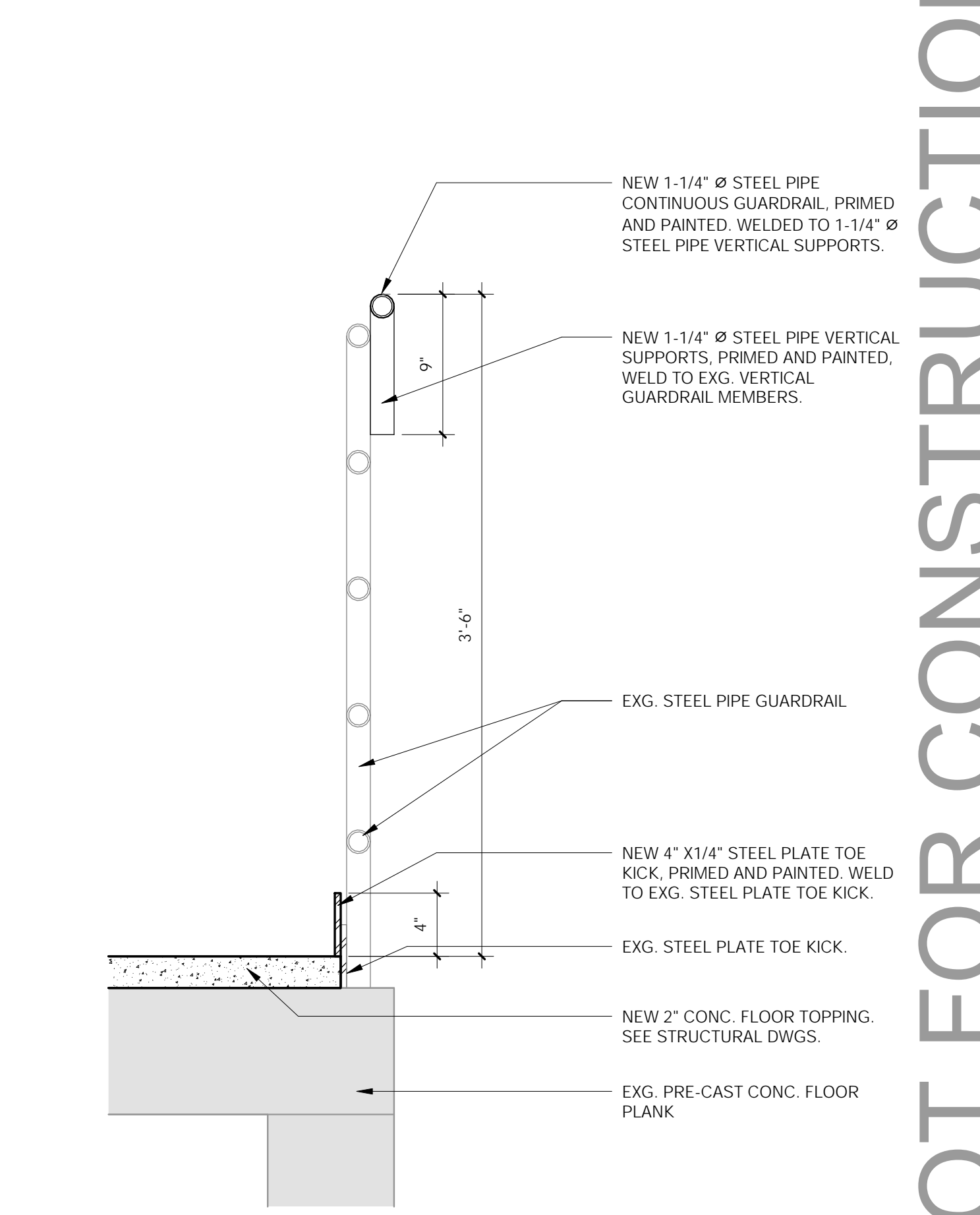
4 TYP. FLASHING DETAIL FOR NEW LINTELS/ ROOF ACCESS DOOR HEAD DETAIL
 SCALE 1 1/2" = 1'-0"



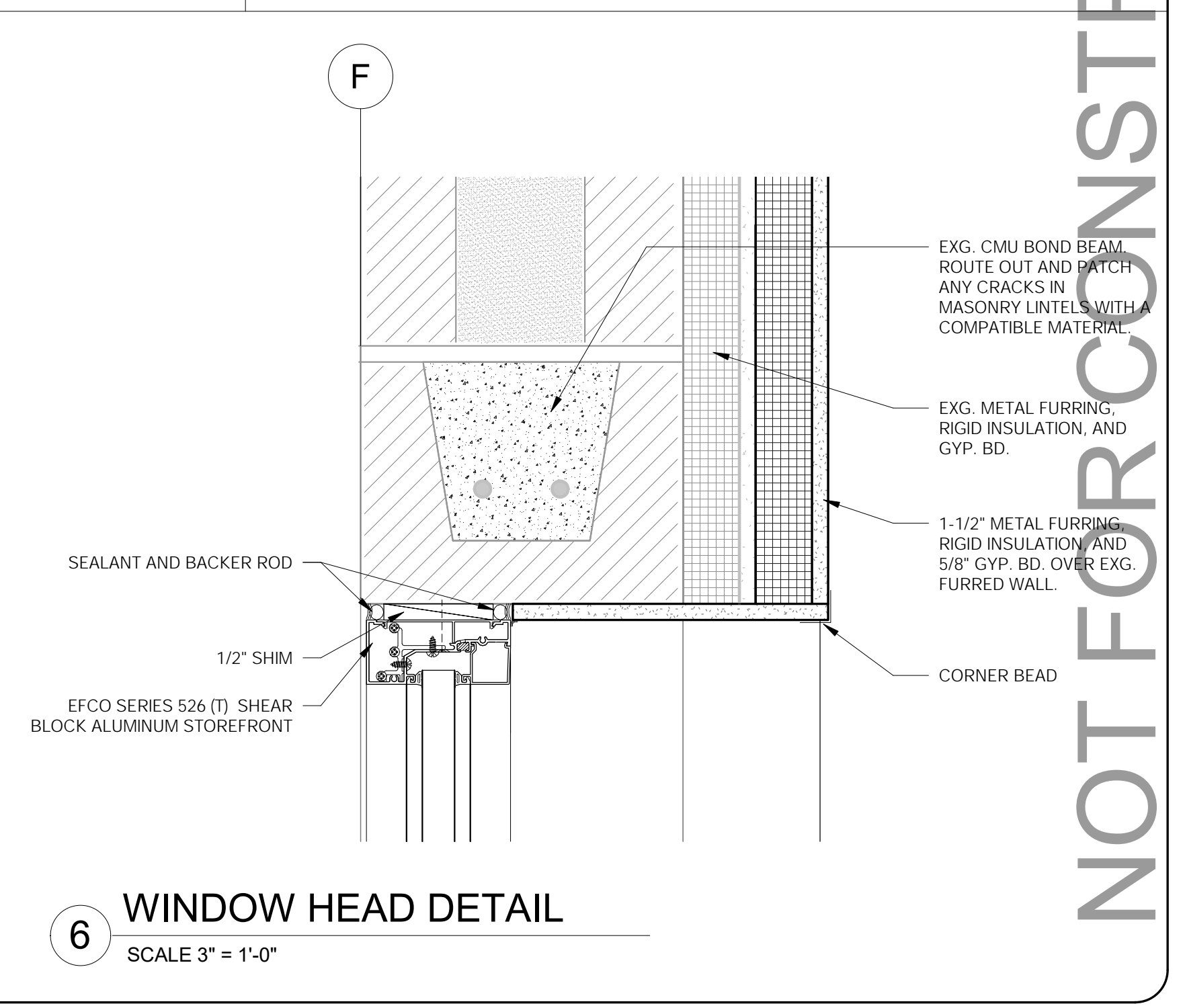
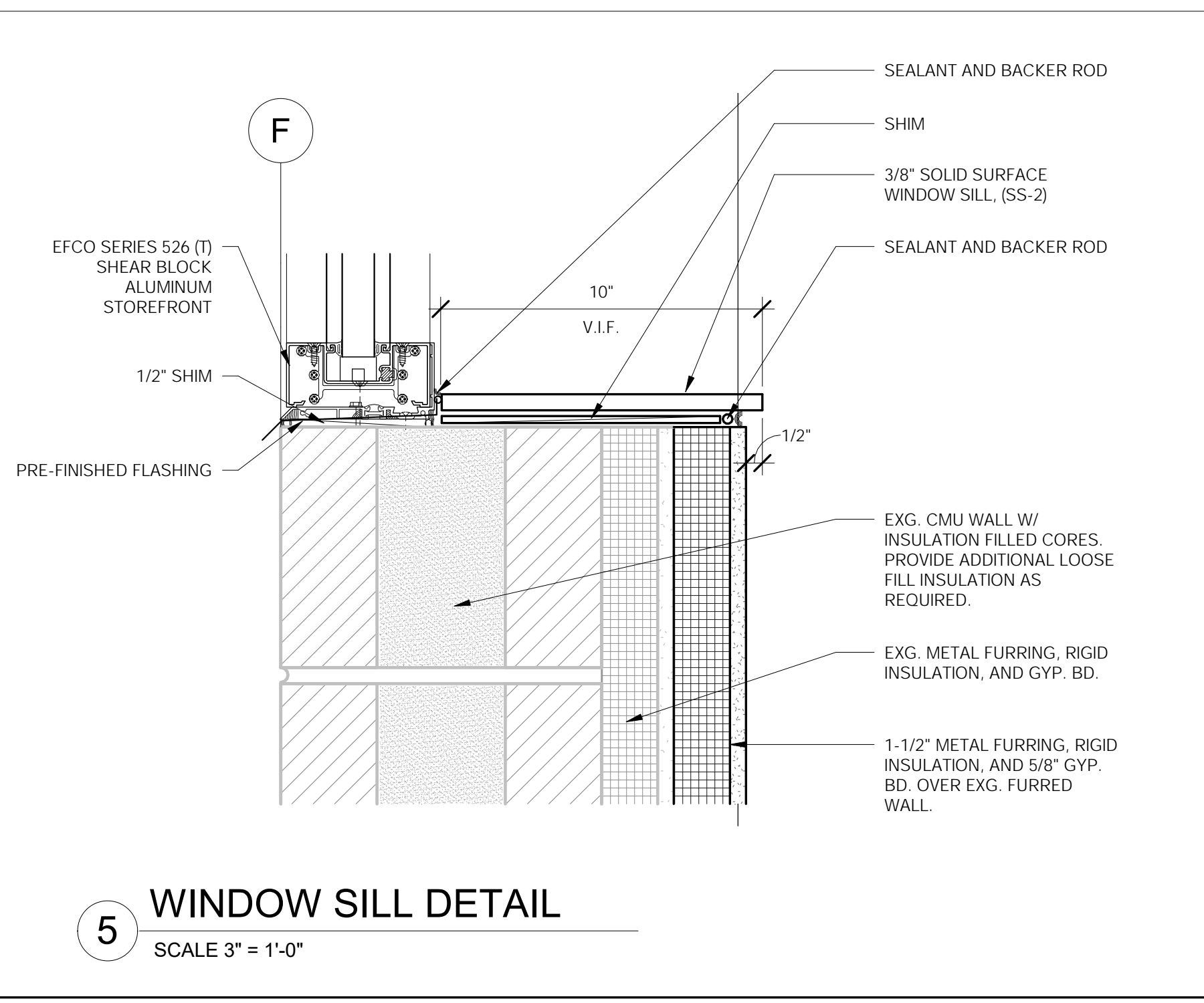
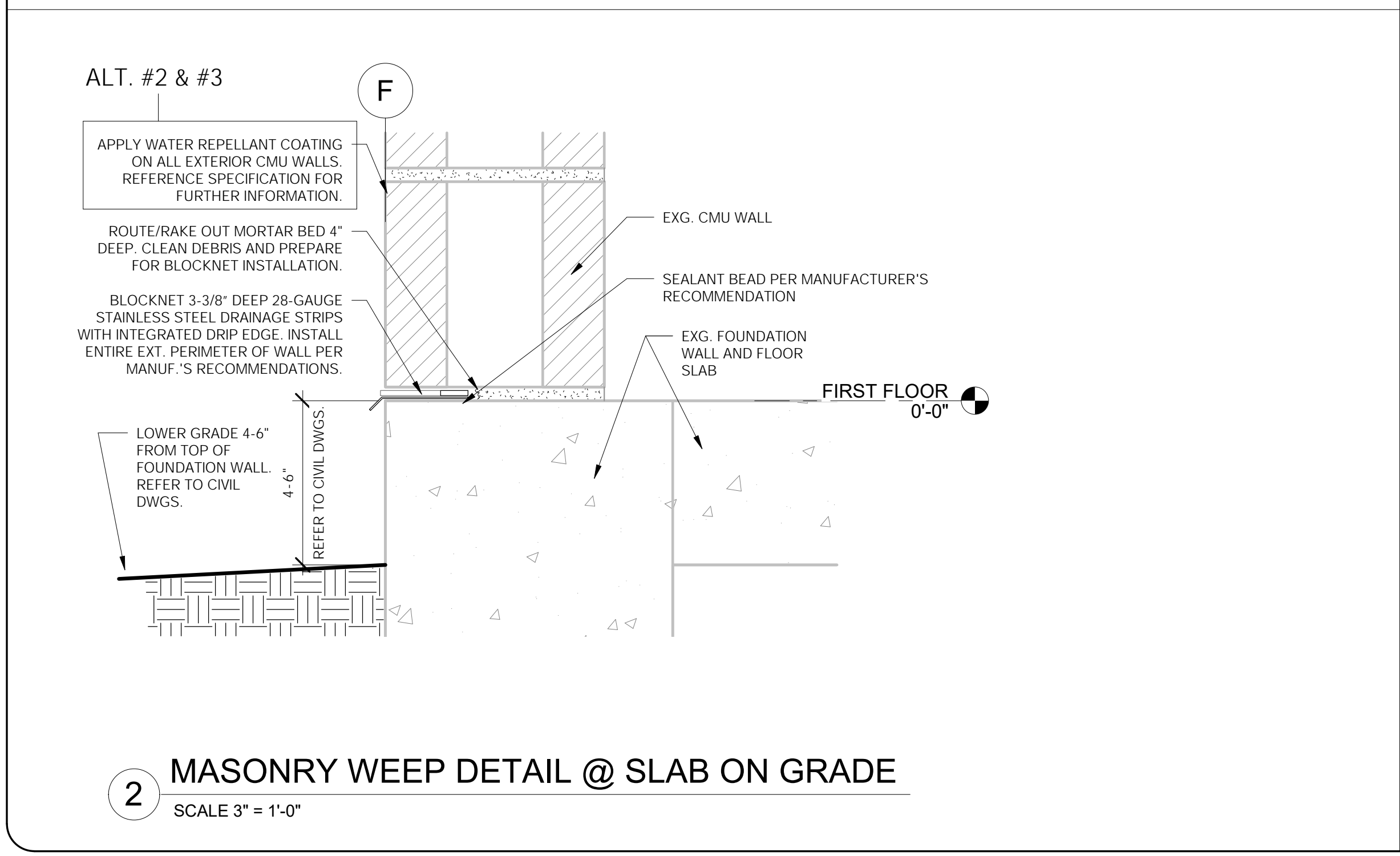
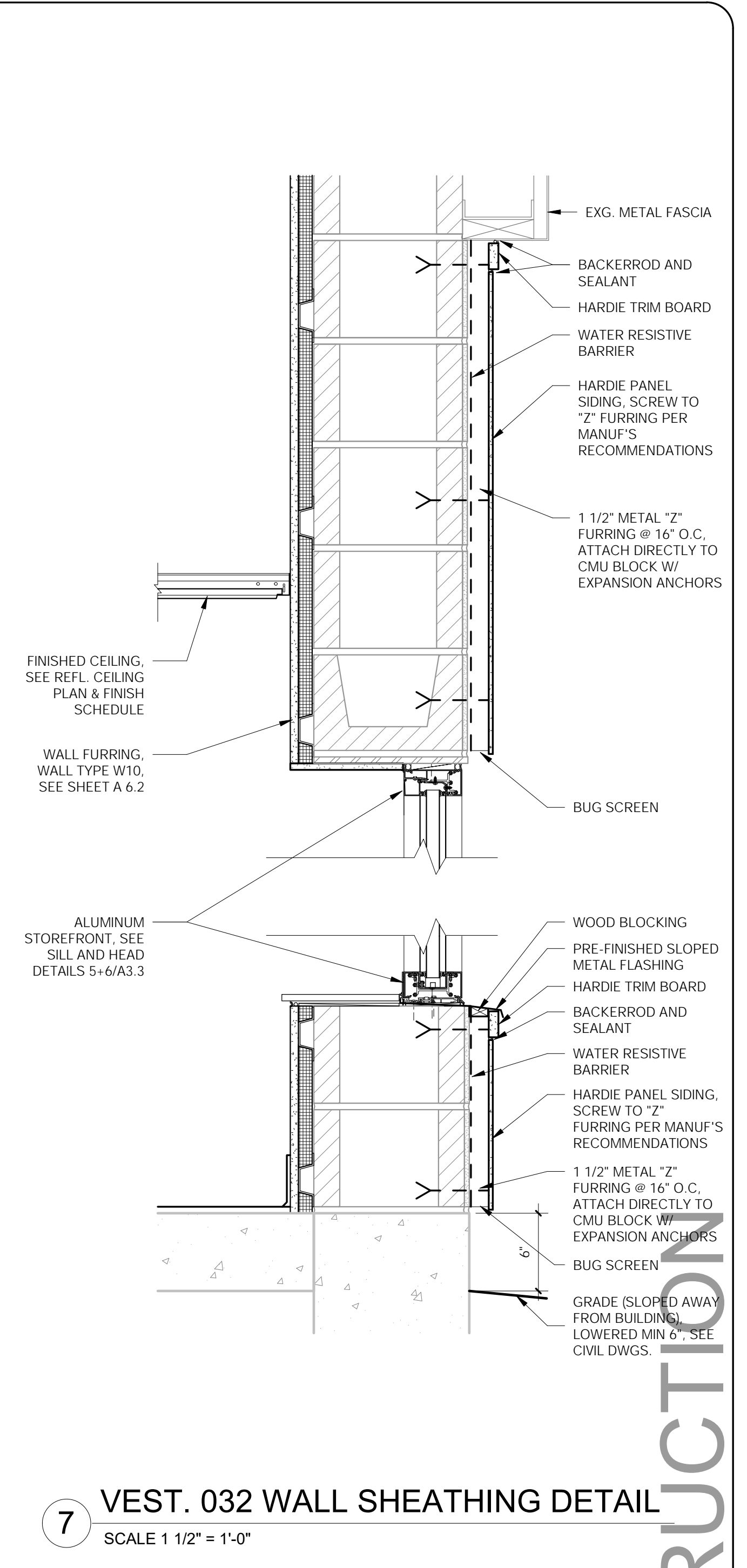
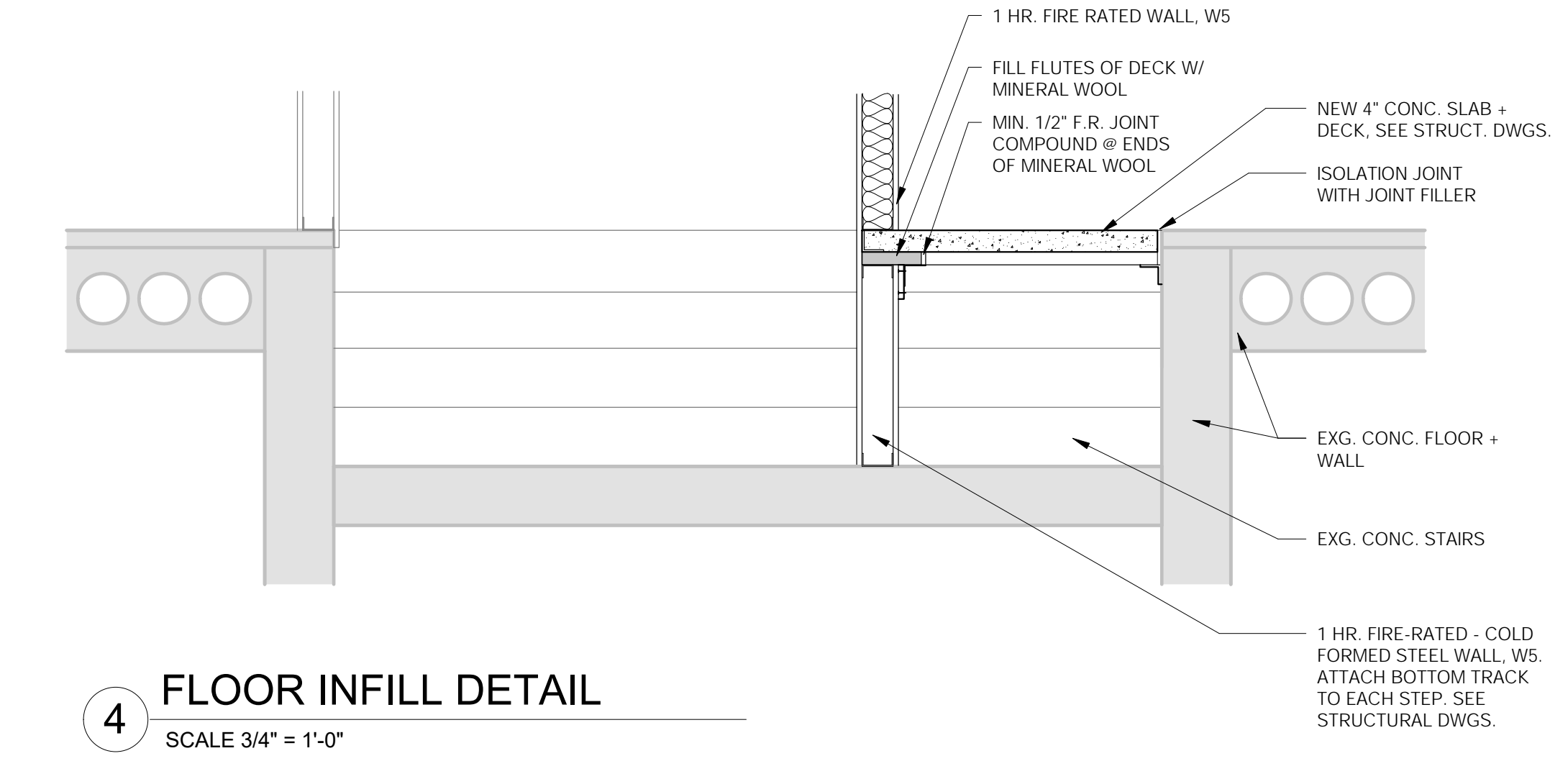
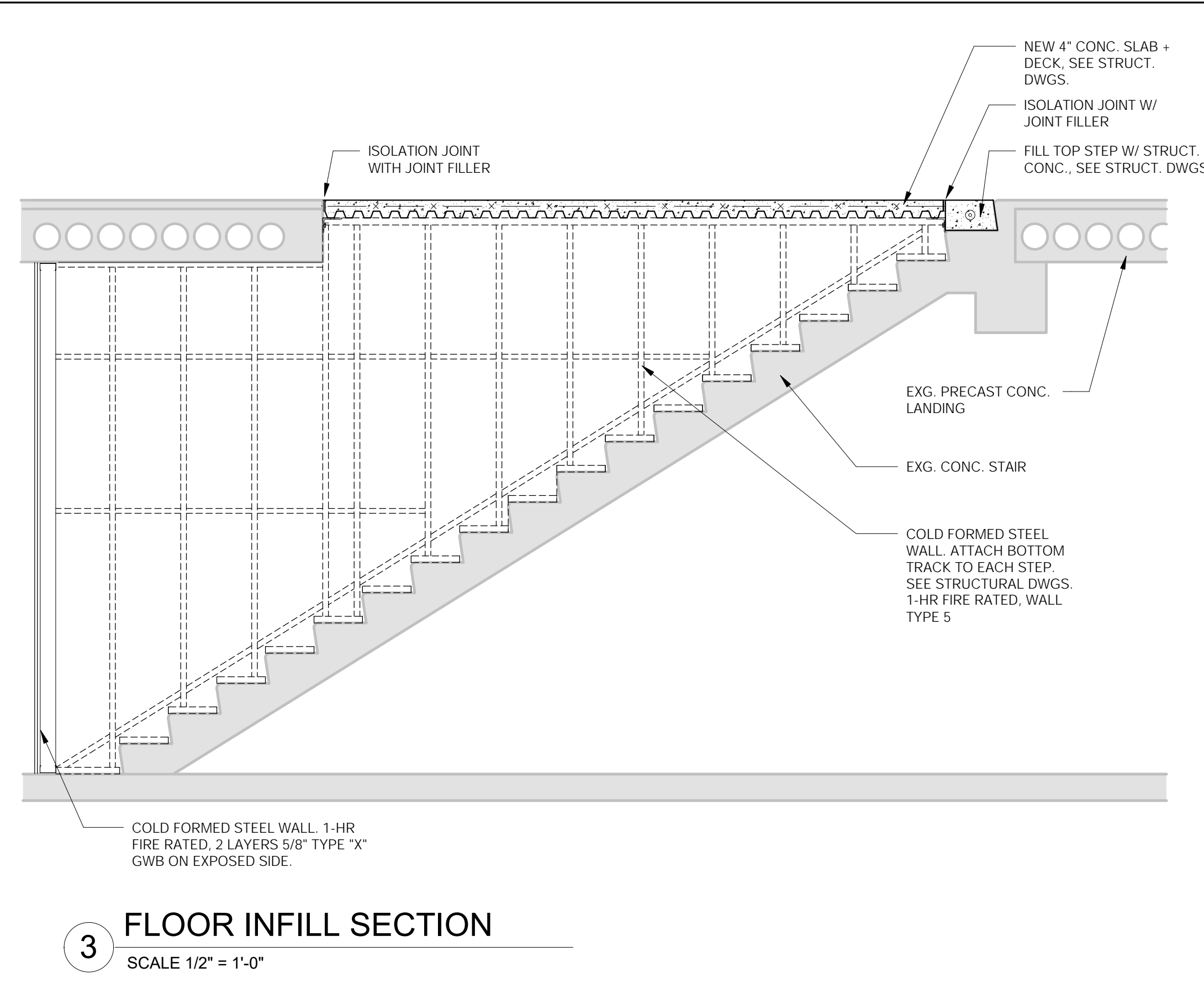
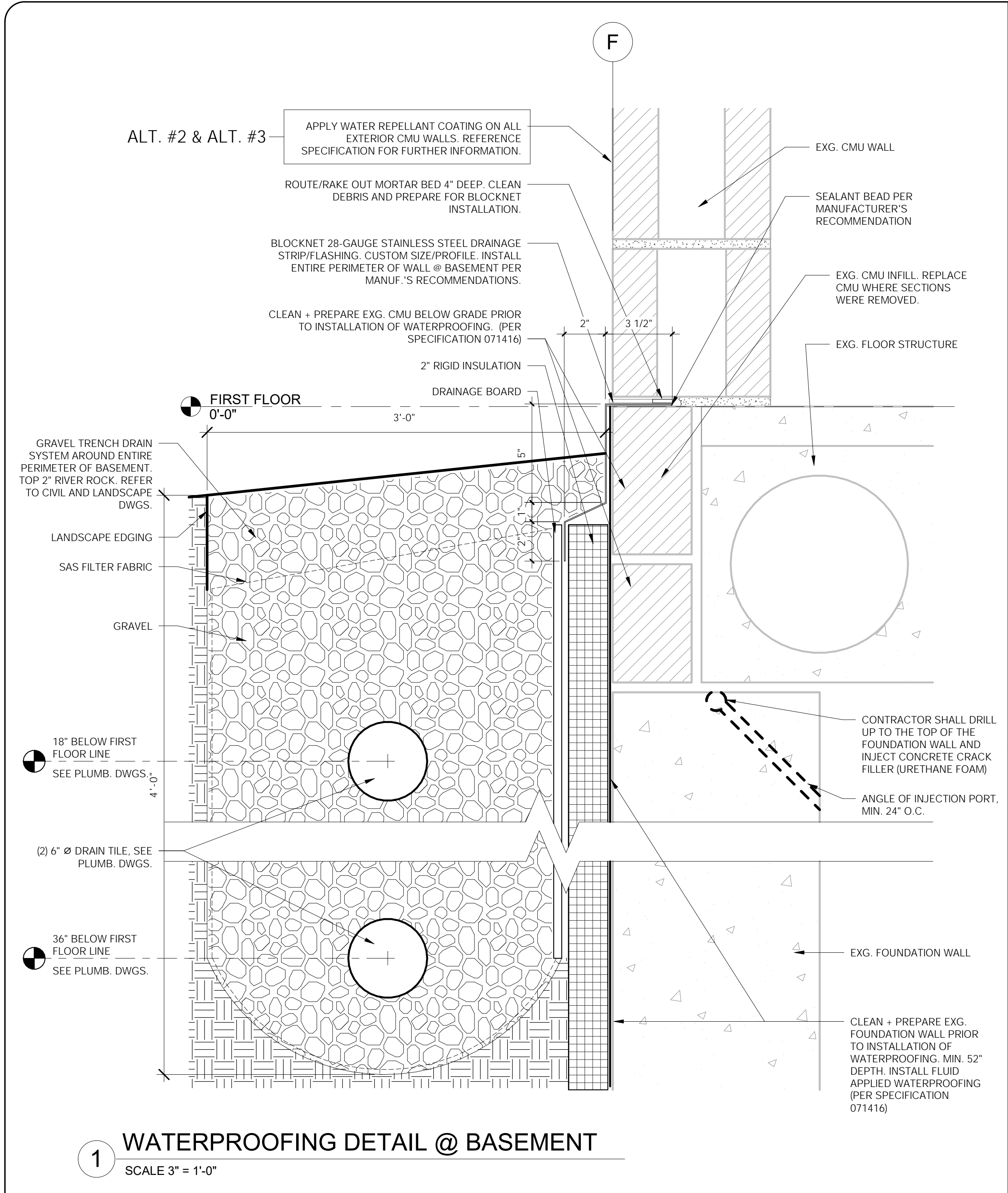
5 EPOXY COVE BASE DETAIL
 SCALE 1 1/2" = 1'-0"



6 STAIR GUARDRAIL EXTENSION DETAIL
 SCALE 1 1/2" = 1'-0"



7 MEZZ. GUARDRAIL EXTENSION DETAIL
 SCALE 1 1/2" = 1'-0"



DANE COUNTY EMERGENCY MANAGEMENT REMODEL

5415 KING JAMES WAY
FITCHBURG, WISCONSIN

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ISSUE RECORD

DD SET	08/04/20
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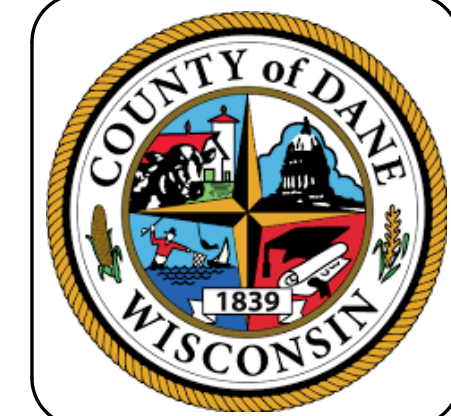
2020-001

BUILDING DETAILS

A 3.3

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DANE COUNTY EMERGENCY MANAGEMENT REMODEL
 5415 KING JAMES WAY
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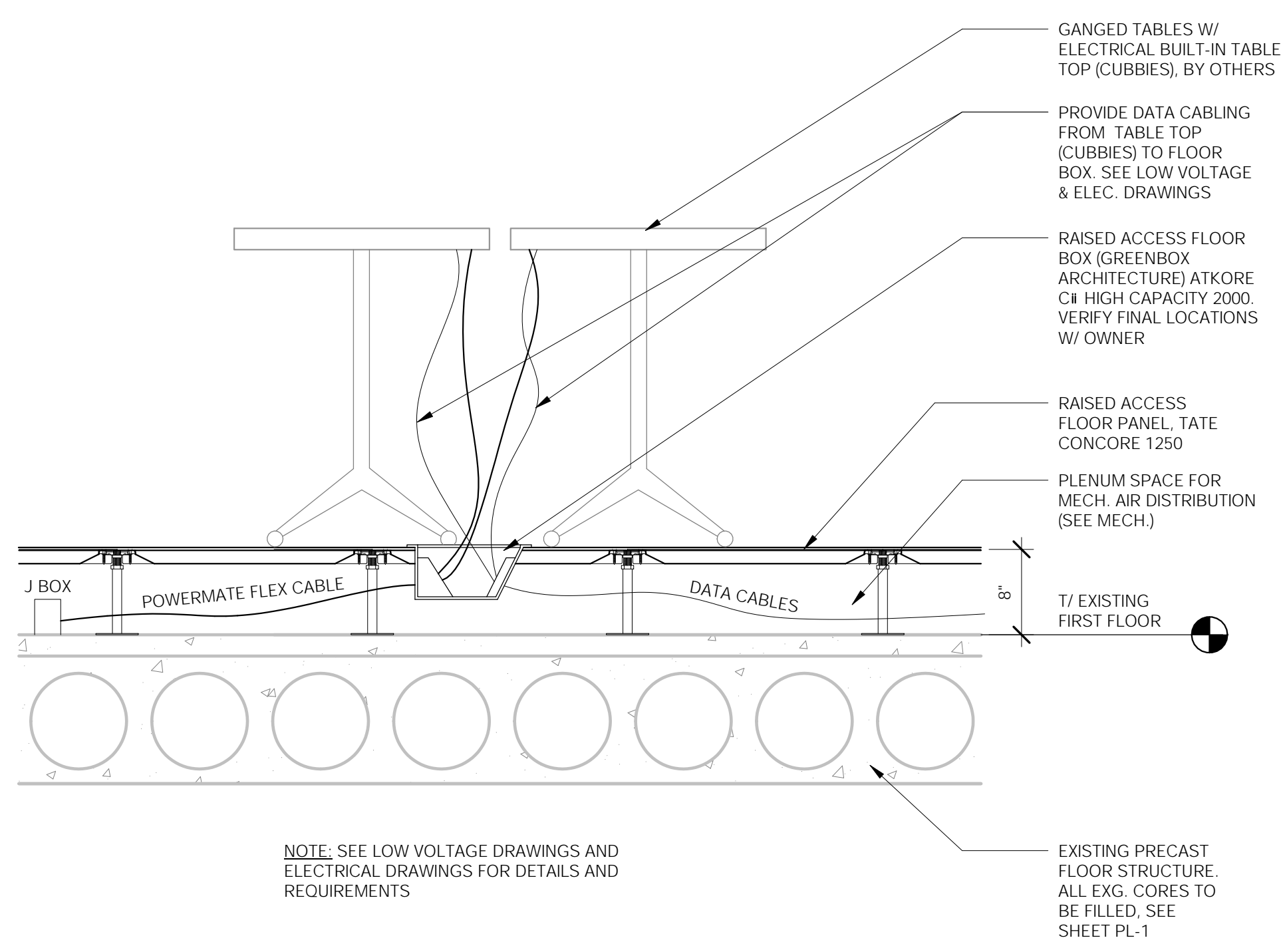
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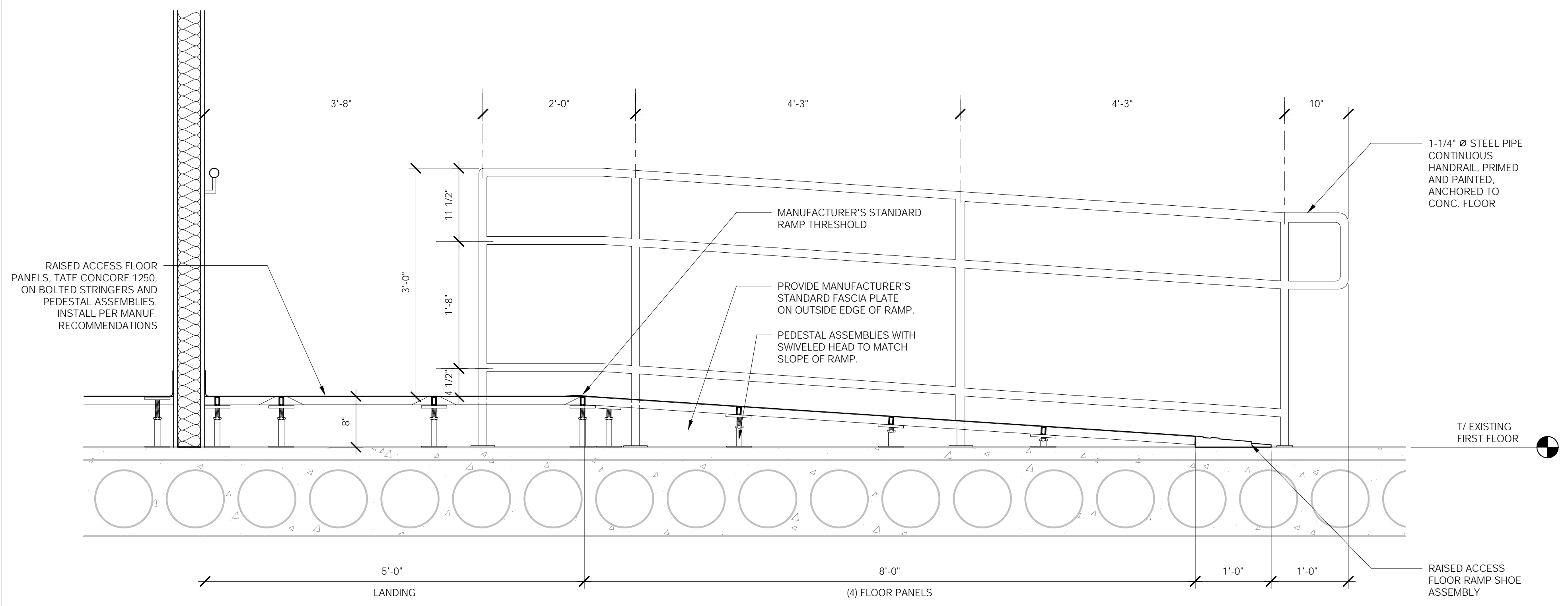
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BUILDING DETAILS
A 3.4

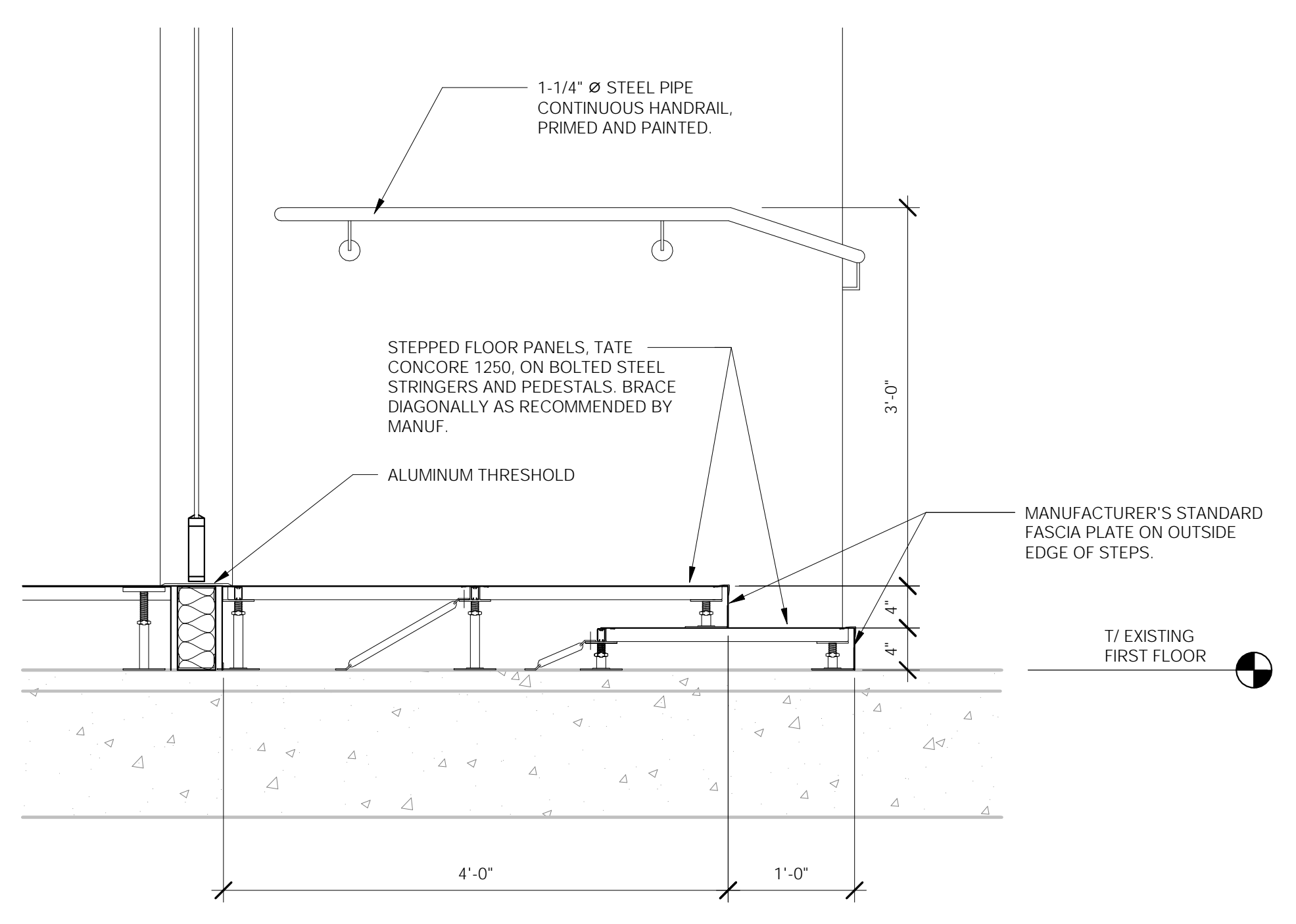
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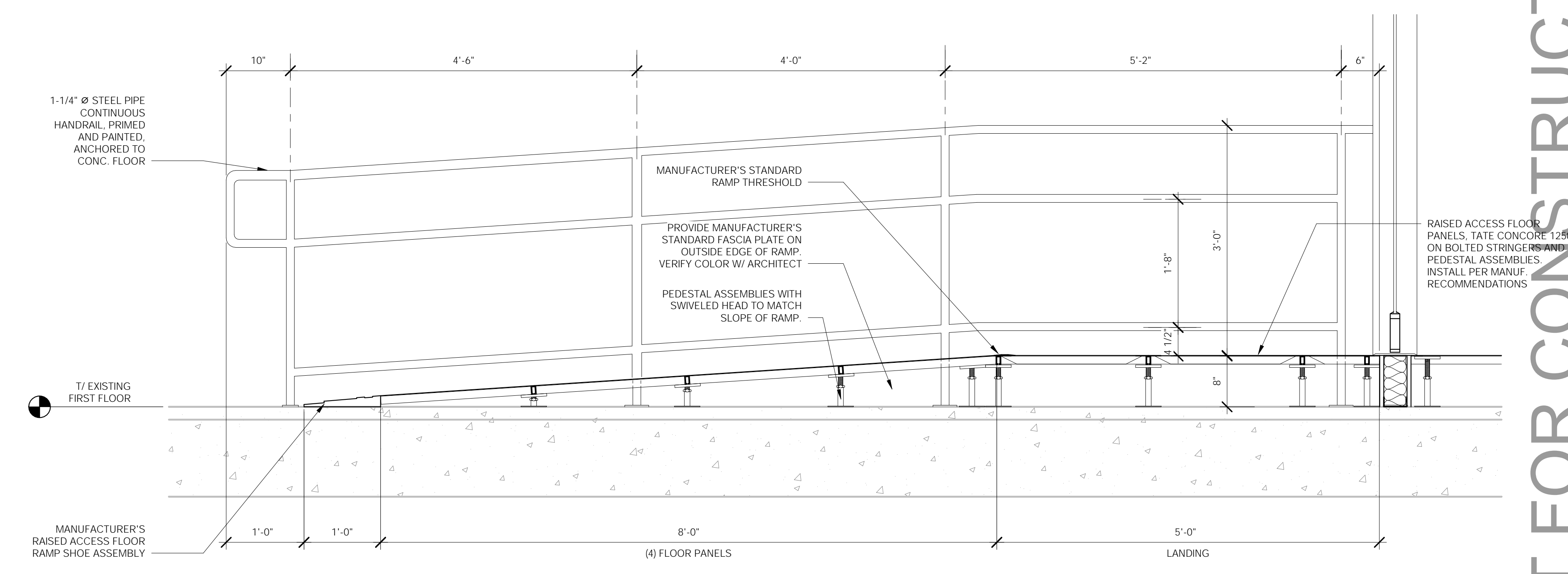
1 RAISED FLOOR DETAIL
 SCALE 1" = 1'-0"



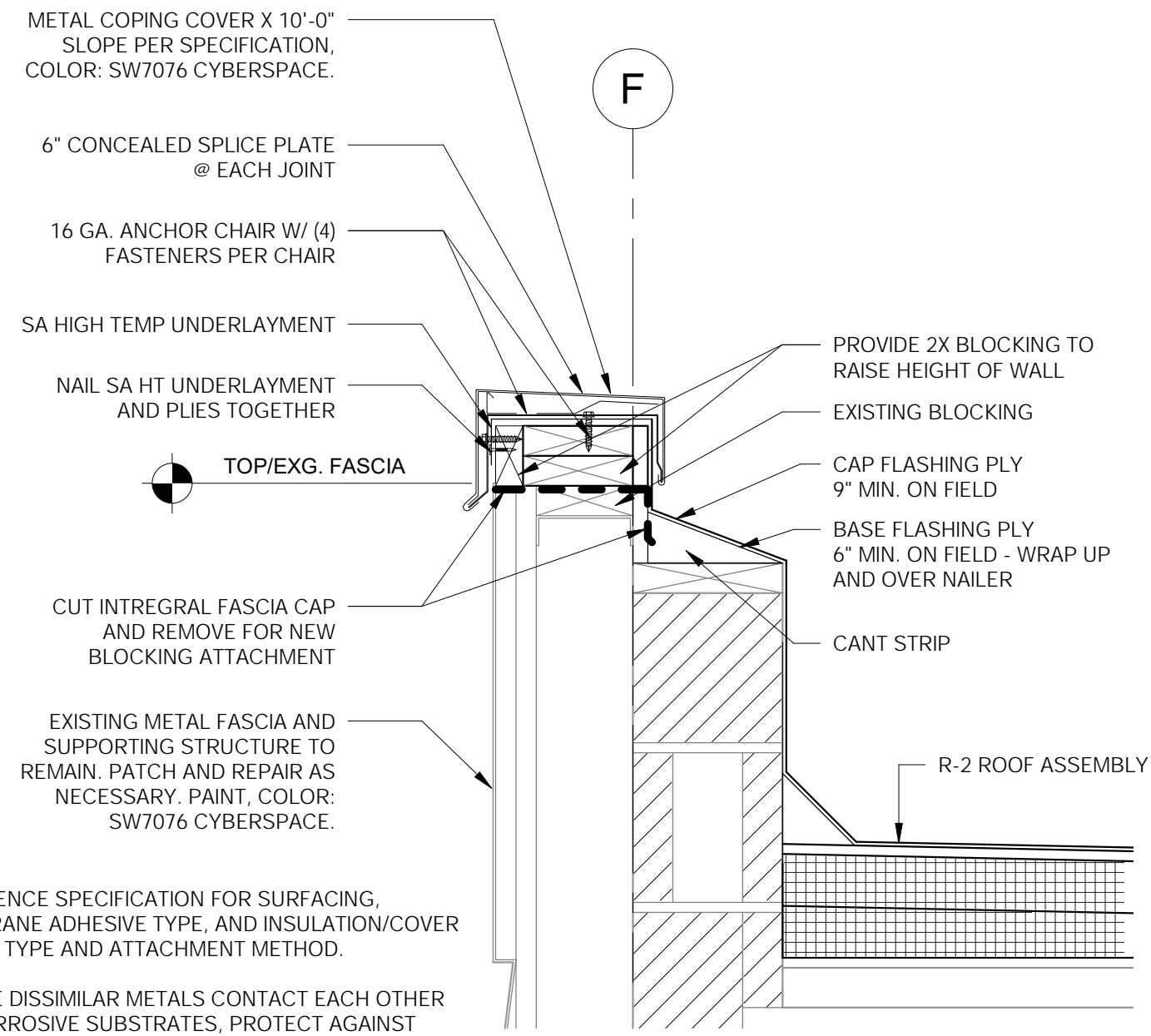
2 RAISED FLOOR RAMP 1 DETAIL
 SCALE 1" = 1'-0"



3 RAISED FLOOR STAIR DETAIL
 SCALE 1" = 1'-0"



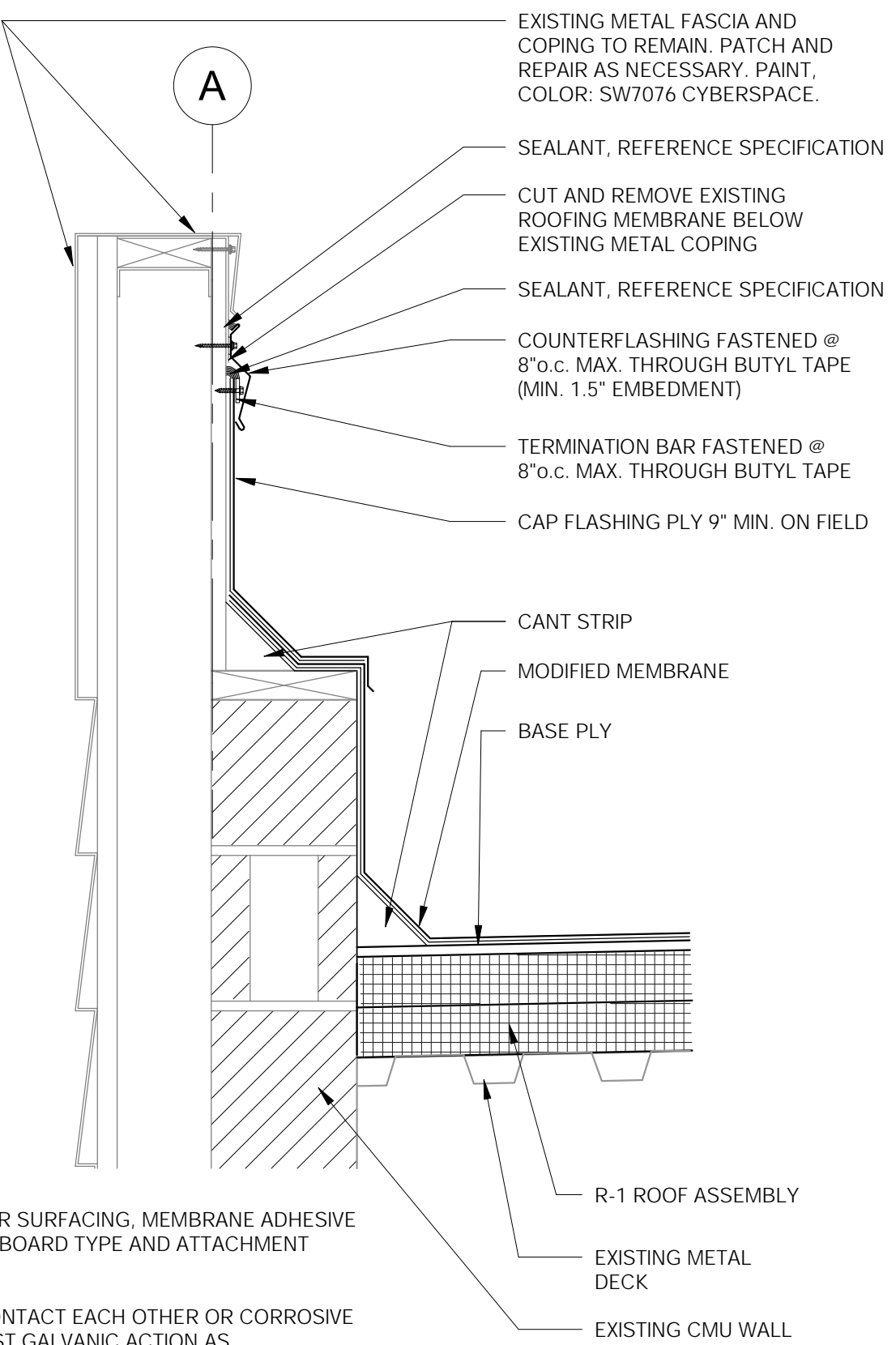
4 RAISED FLOOR RAMP 2 DETAIL
 SCALE 1" = 1'-0"



NOTES:

- REFERENCE SPECIFICATION FOR SURFACING, MEMBRANE ADHESIVE TYPE, AND INSULATION/COVER BOARD TYPE AND ATTACHMENT METHOD.
- WHERE DISSIMILAR METALS CONTACT EACH OTHER OR CORROSIVE SUBSTRATES, PROTECT AGAINST GALVANIC ACTION AS RECOMMENDED IN WRITING BY METAL COPING MANUFACTURER.
- ALL EXISTING SPLICE PLATES OF THE METAL FASCIA/COPING SYSTEM SHALL BE REMOVED. INSTALL NEW SPLICE PLATES, ANCHORS, AND CAULKING. PAINT TO MATCH FASCIA SYSTEM.

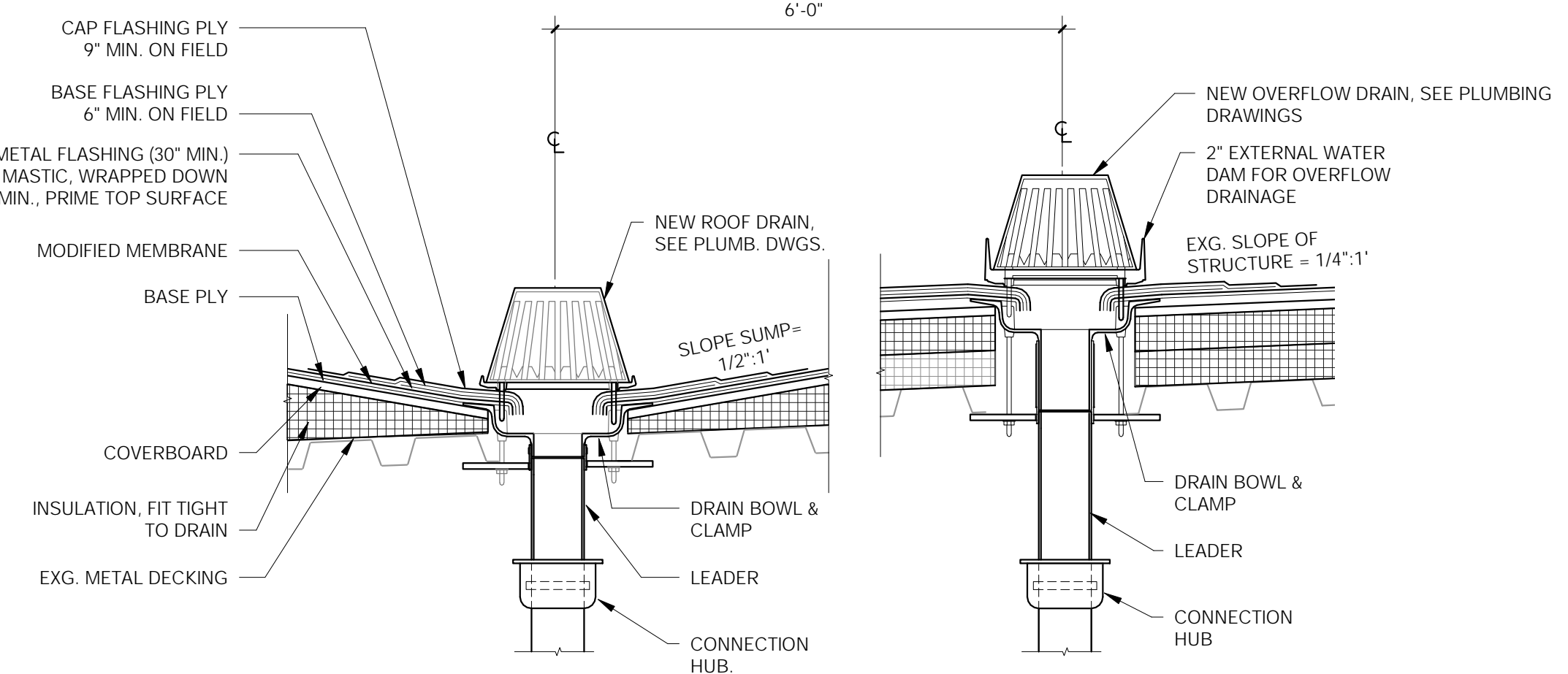
1 BUILT-UP COPING DETAIL - HIGH ROOF
SCALE 1 1/2" = 1'-0"



NOTES:

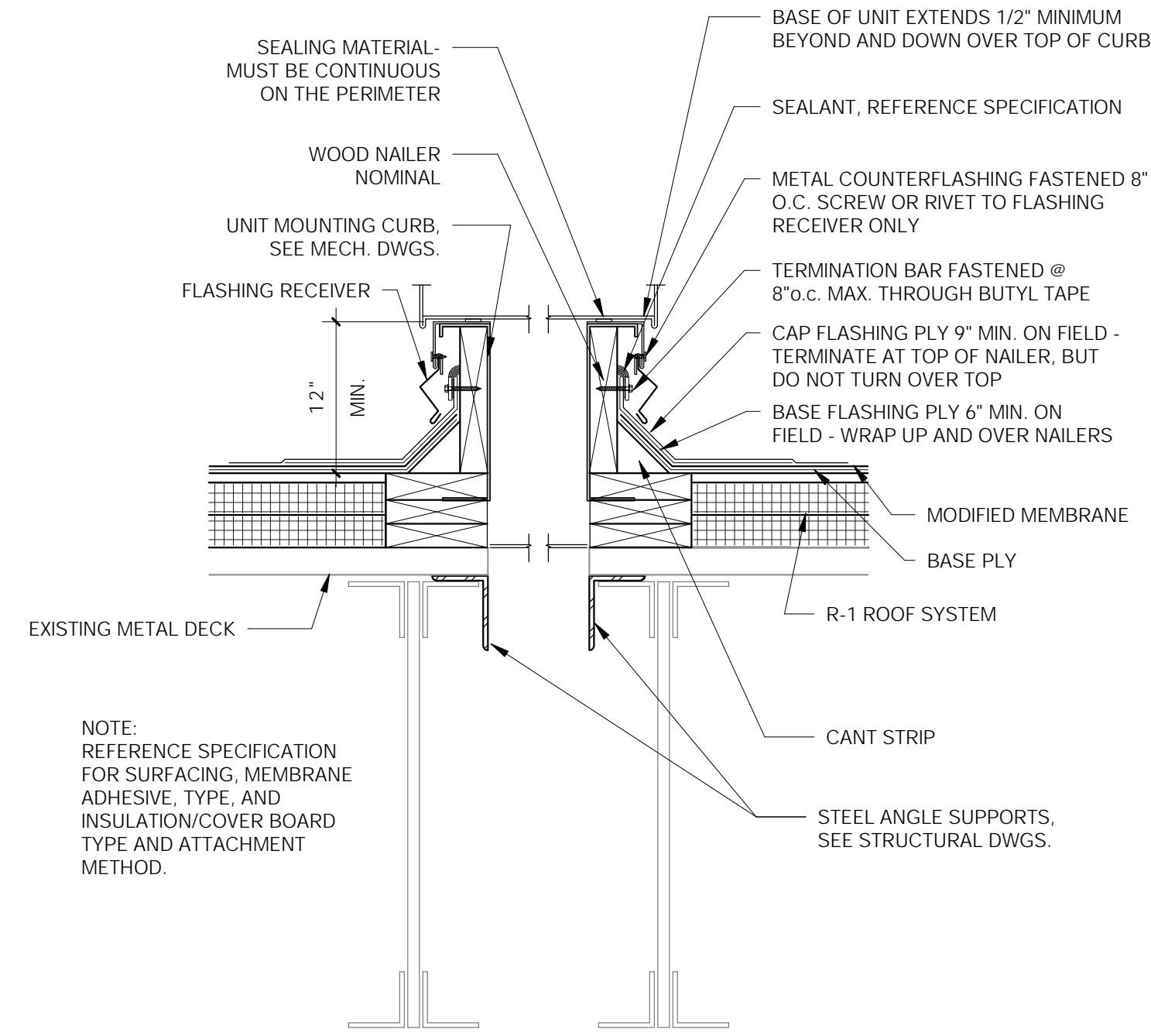
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- ALL EXISTING SPLICE PLATES OF THE METAL FASCIA/COPING SYSTEM SHALL BE REMOVED. INSTALL NEW SPLICE PLATES, ANCHORS, AND CAULKING. PAINT TO MATCH FASCIA SYSTEM.

2 EXISTING COPING DETAIL - LOW ROOF
SCALE 1 1/2" = 1'-0"



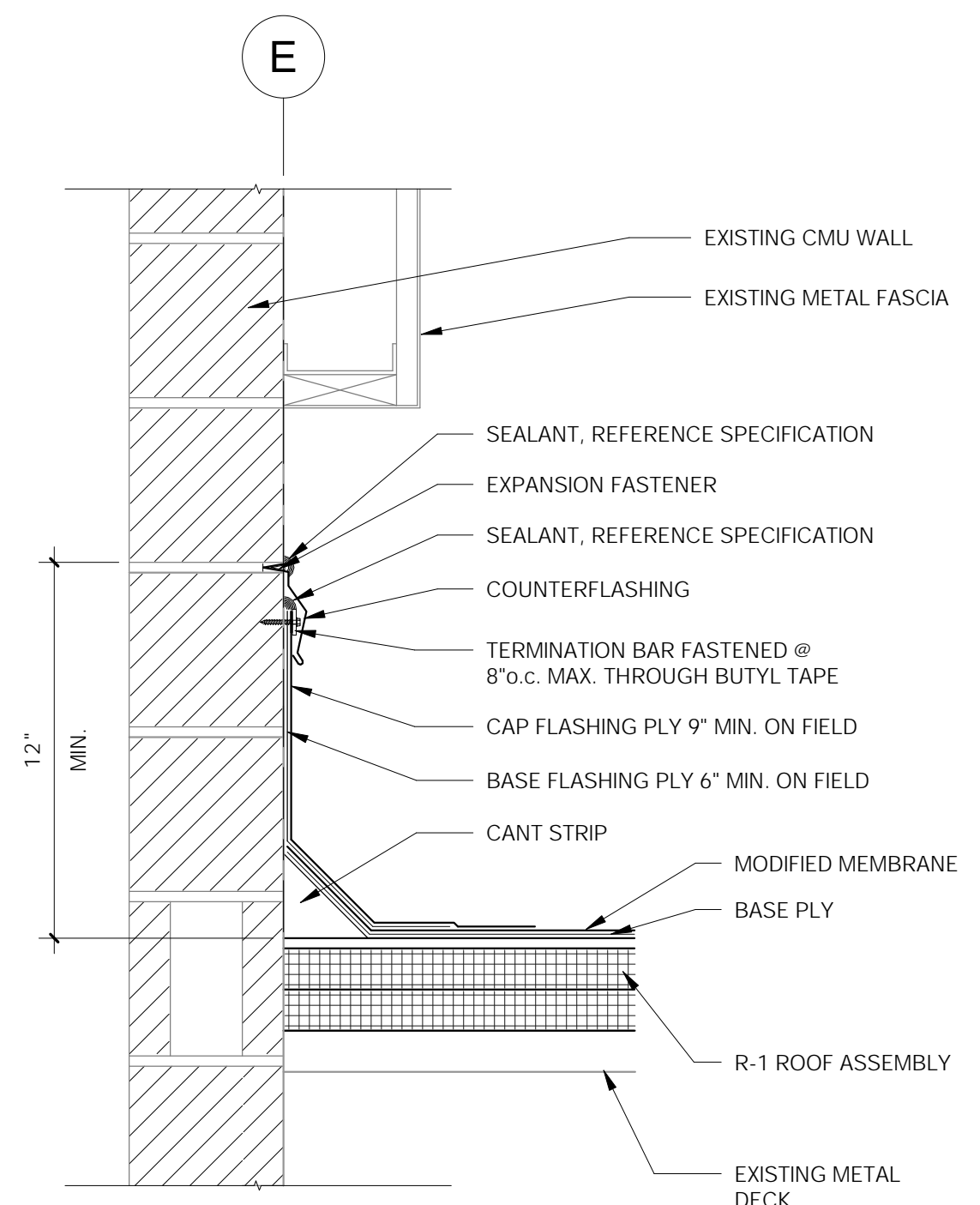
NOTE: REPLACE ANY DAMAGED OR DEFICIENT COMPONENTS OF EXISTING ROOF DRAIN SYSTEM.

3 ROOF DRAIN + OVERFLOW DRAIN
SCALE 1 1/2" = 1'-0"

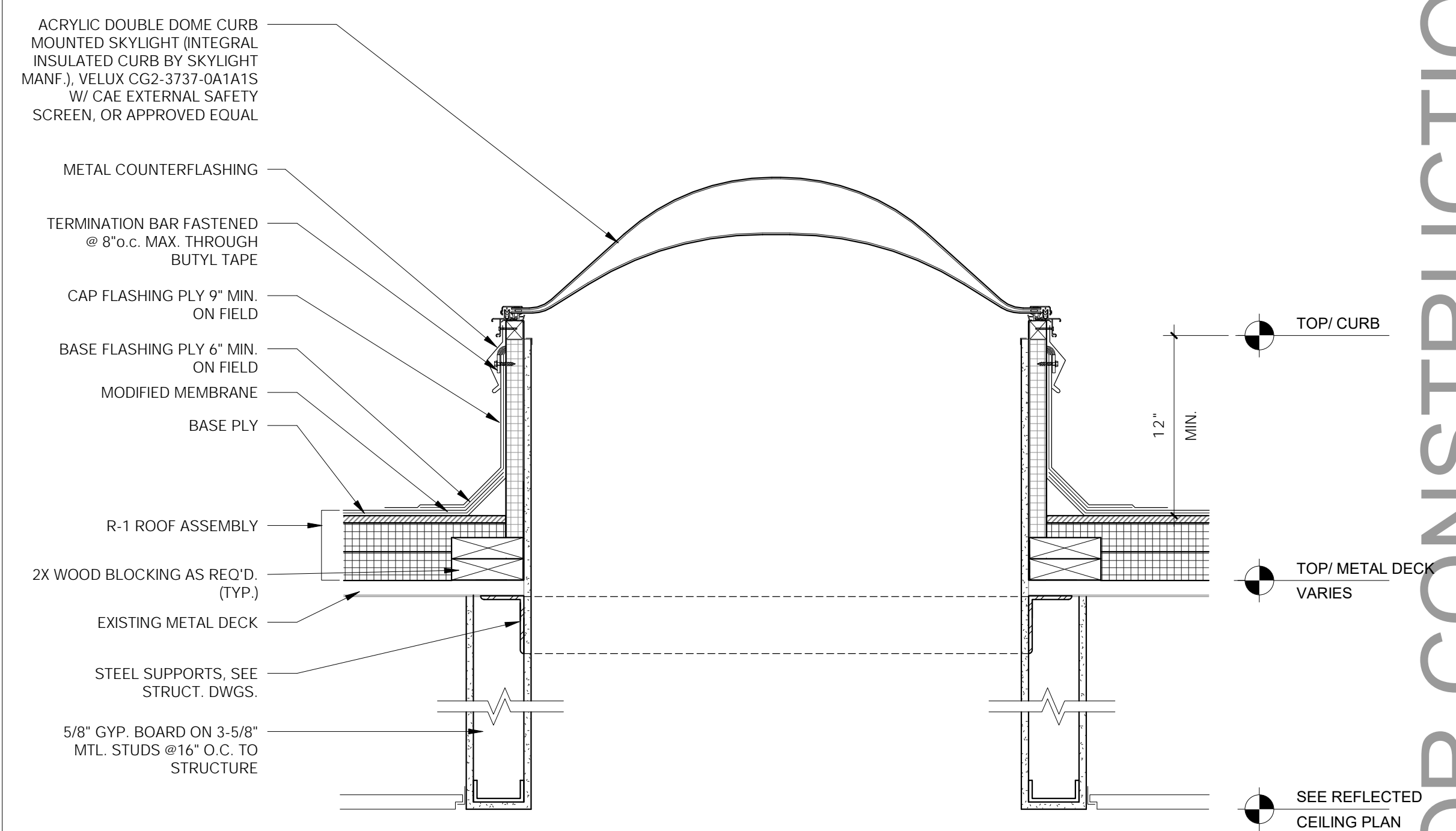


NOTE: REFERENCE SPECIFICATION FOR SURFACING, MEMBRANE ADHESIVE TYPE, AND INSULATION/COVER BOARD TYPE AND ATTACHMENT METHOD.

4 MECH. ROOF CURB DETAIL
SCALE 1 1/2" = 1'-0"



5 ROOF FLASHING DETAIL
SCALE 1 1/2" = 1'-0"



6 SKYLIGHT DETAIL
SCALE 1 1/2" = 1'-0"

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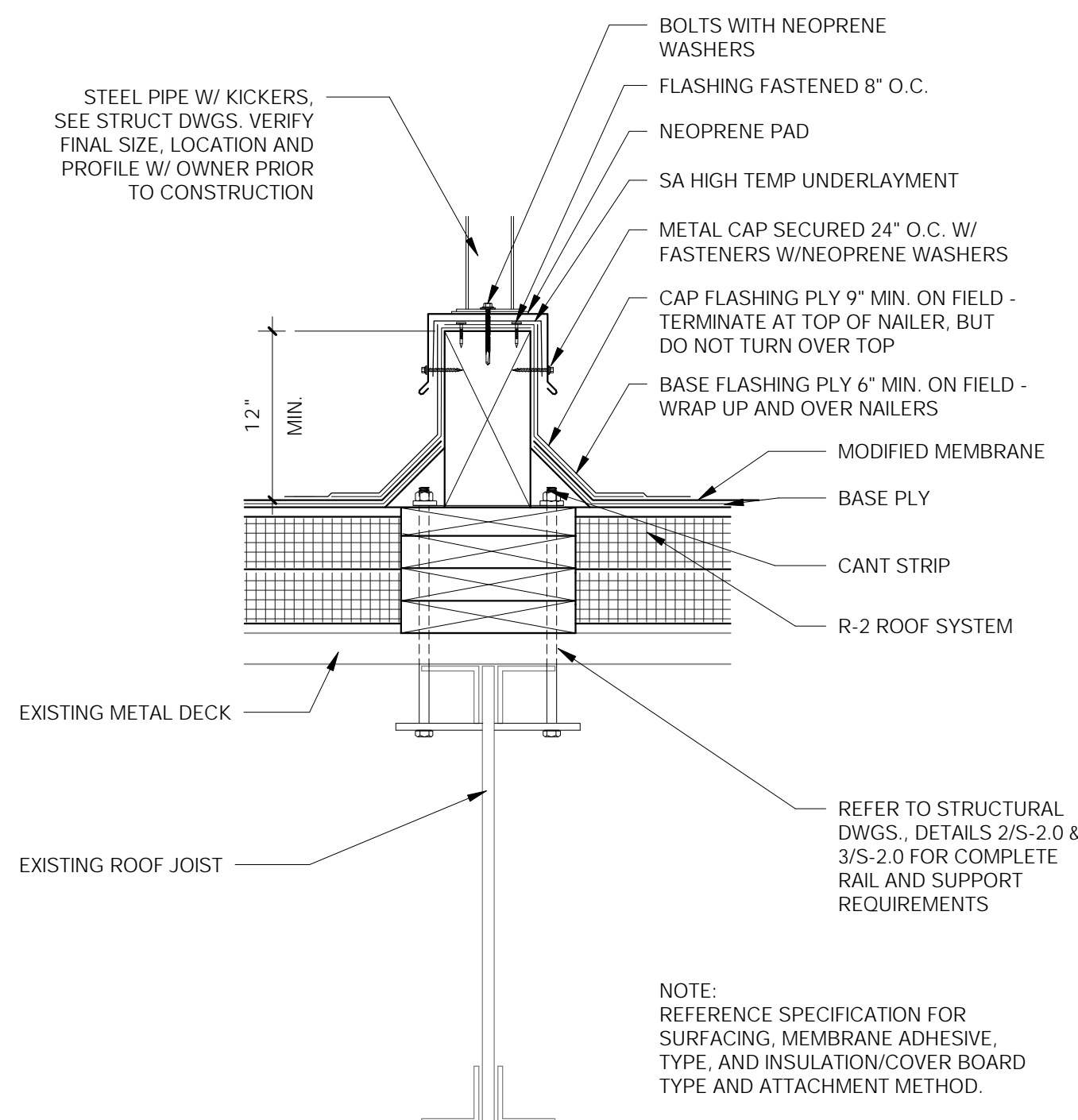
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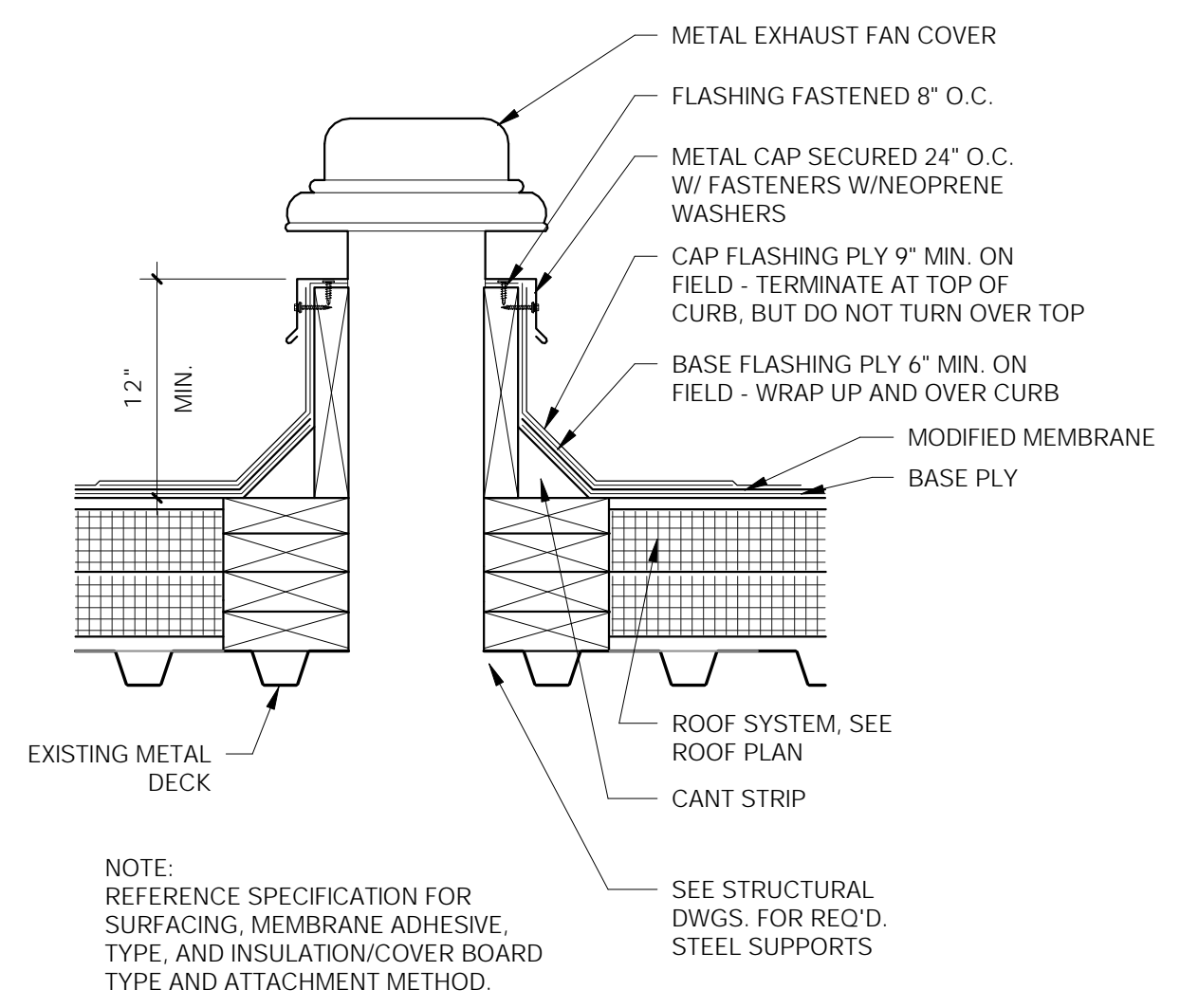
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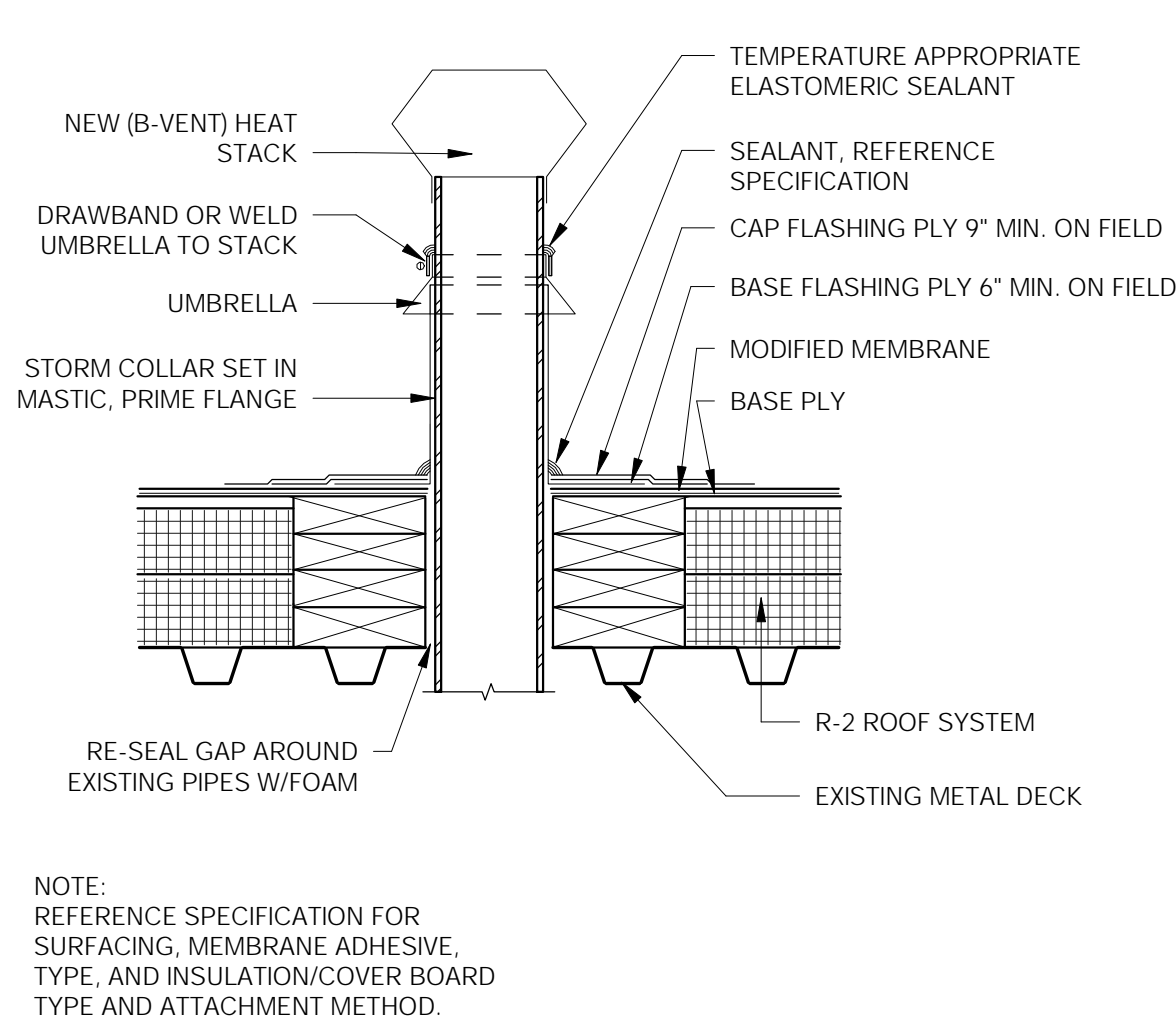
ROOF DETAILS
A 3.5



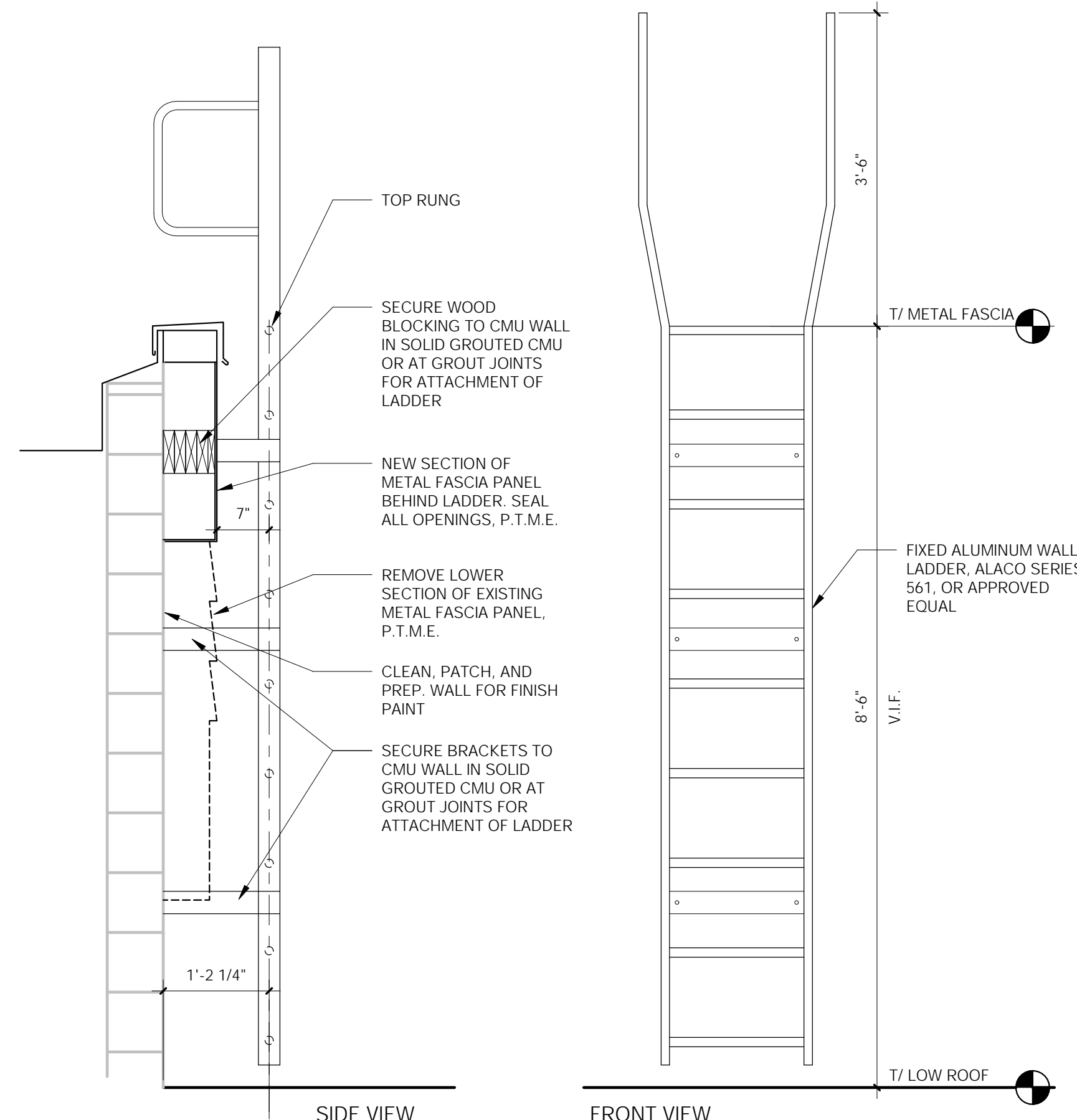
1 EQUIPMENT SUPPORT ROOF DETAIL
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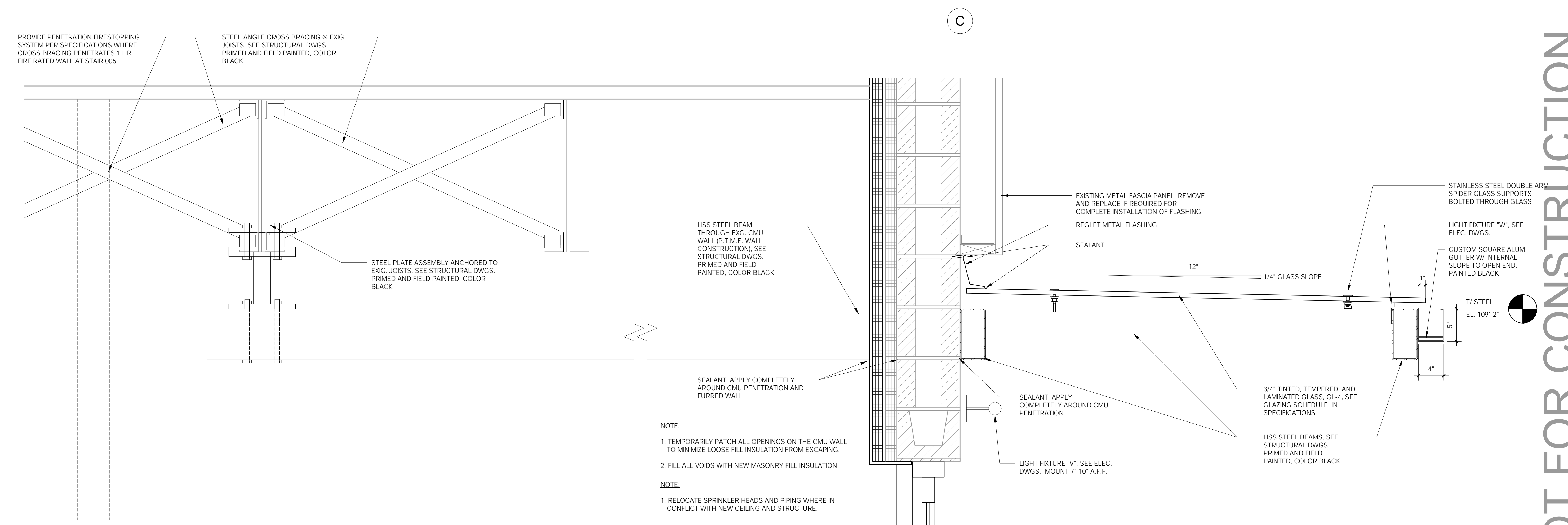
2 EXHAUST FAN ROOF DETAIL
SCALE 1 1/2" = 1'-0"



3 HEAT STACK ROOF DETAIL
SCALE 1 1/2" = 1'-0"



4 ROOF LADDER DETAIL
SCALE 3/4" = 1'-0"



5 ENTRANCE CANOPY DETAIL
SCALE 1 1/2" = 1'-0"

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DANE COUNTY EMERGENCY MANAGEMENT REMODEL
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ROOF DETAILS
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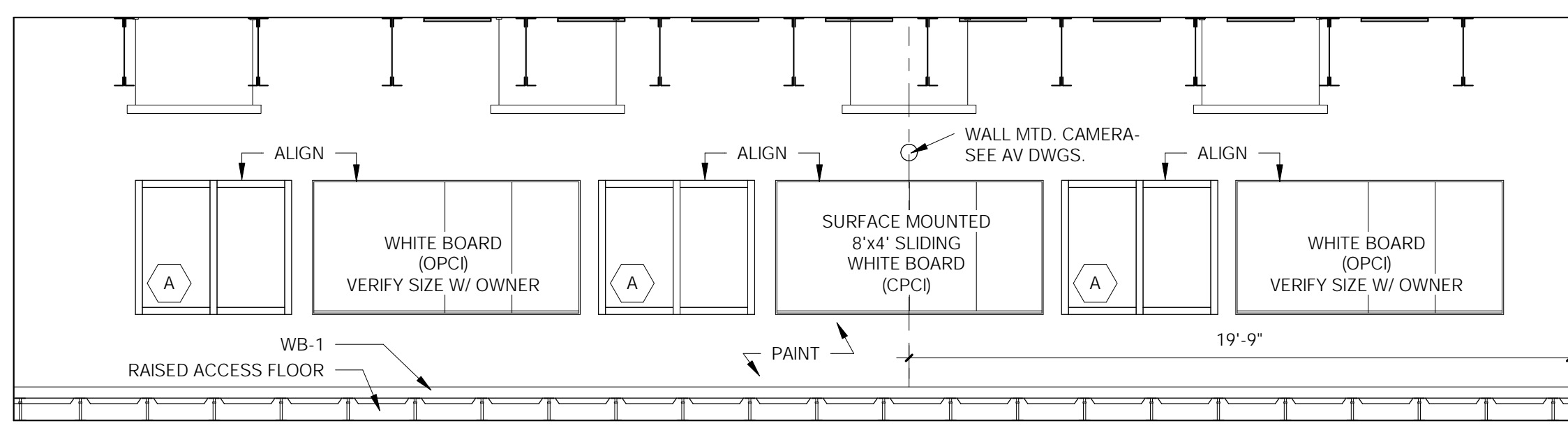
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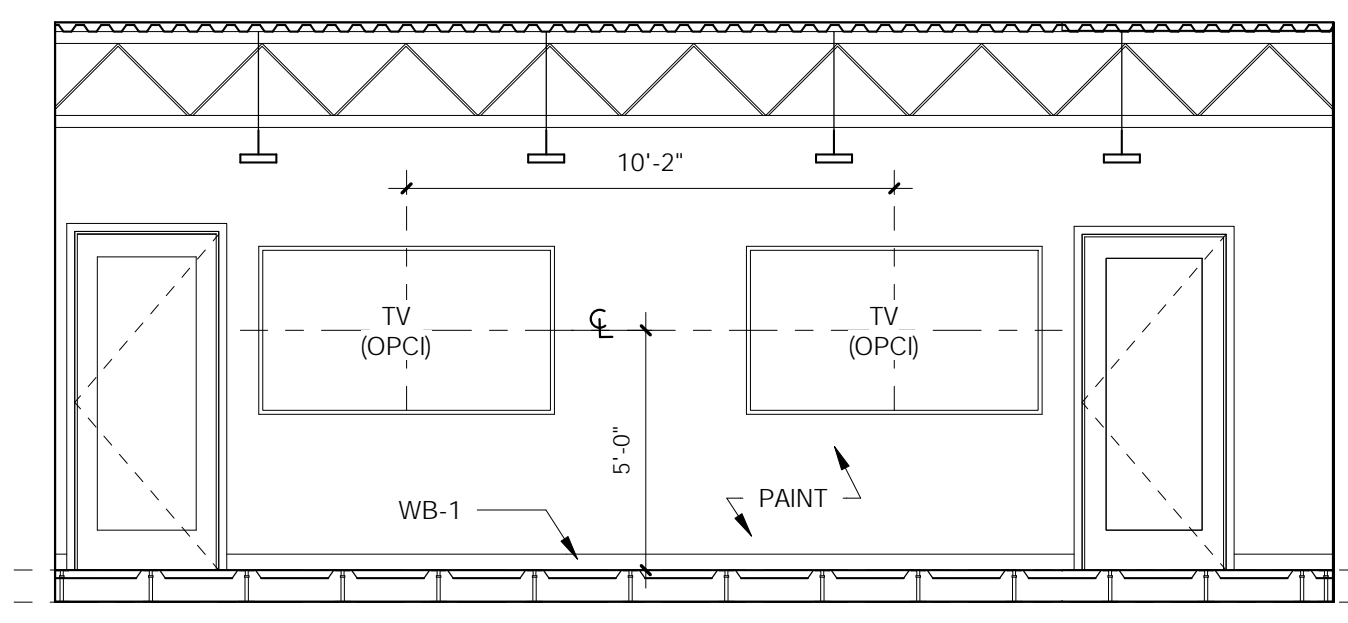
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**INTERIOR
 ELEVATIONS**
A 4.1

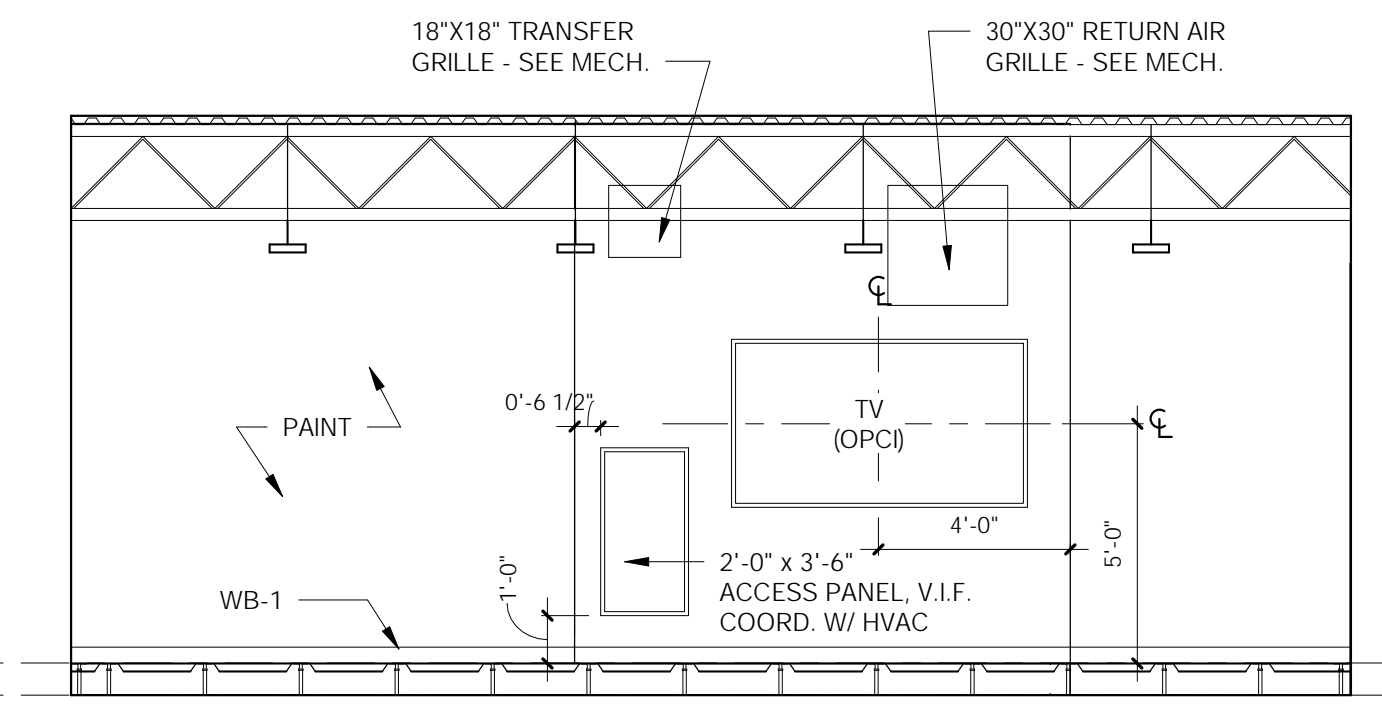
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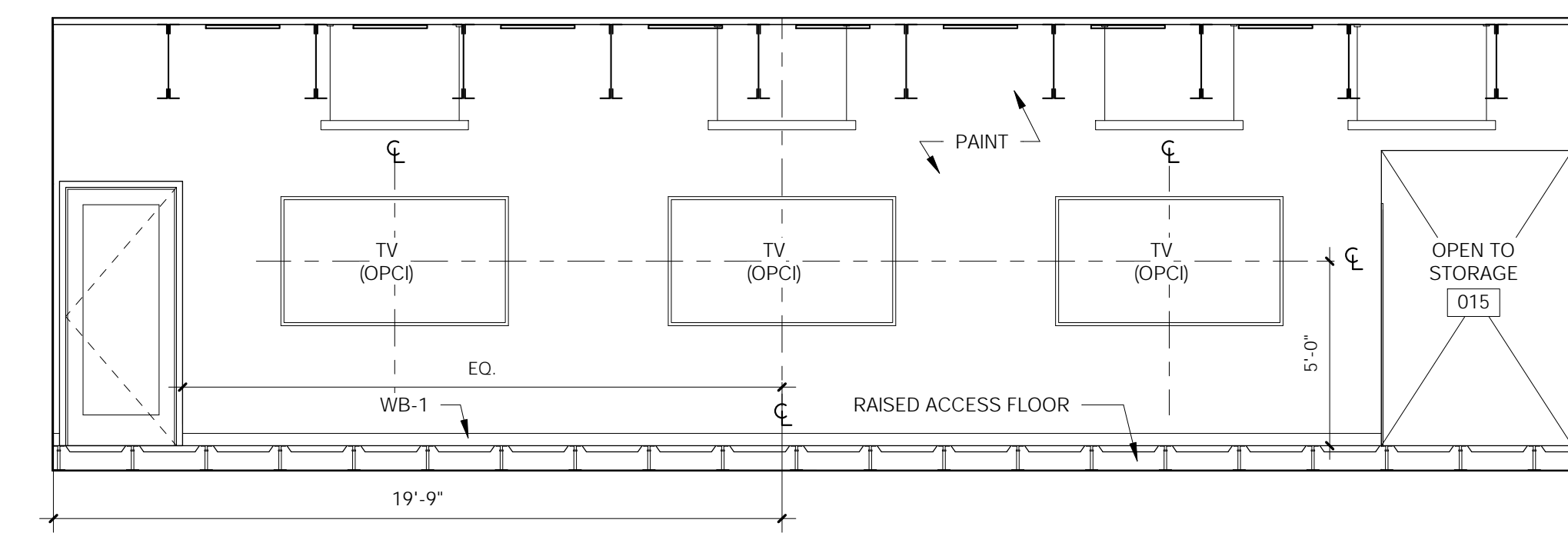
1 E.O.C. 006 - NORTH ELEVATION
 SCALE 1/4" = 1'-0"



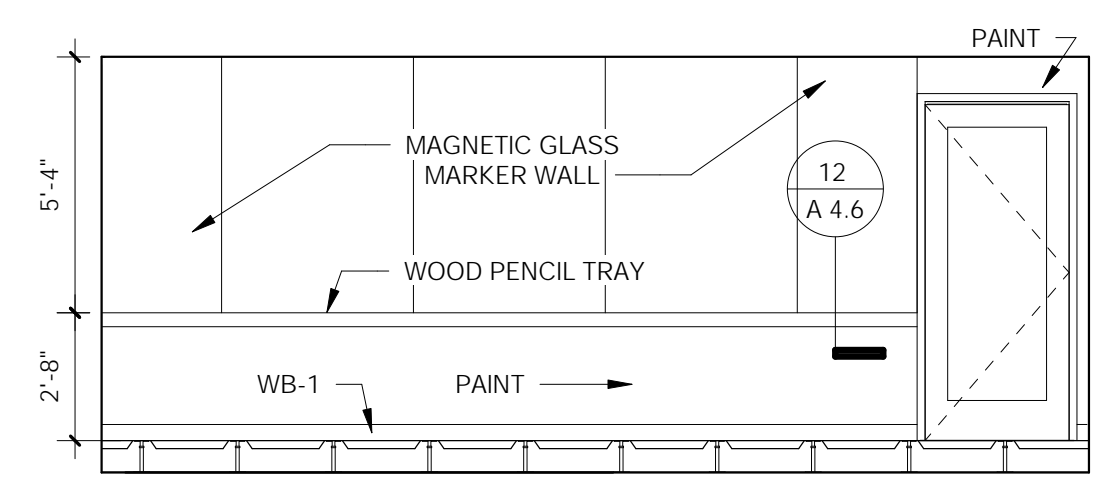
2 E.O.C. 006 - EAST ELEVATION
 SCALE 1/4" = 1'-0"



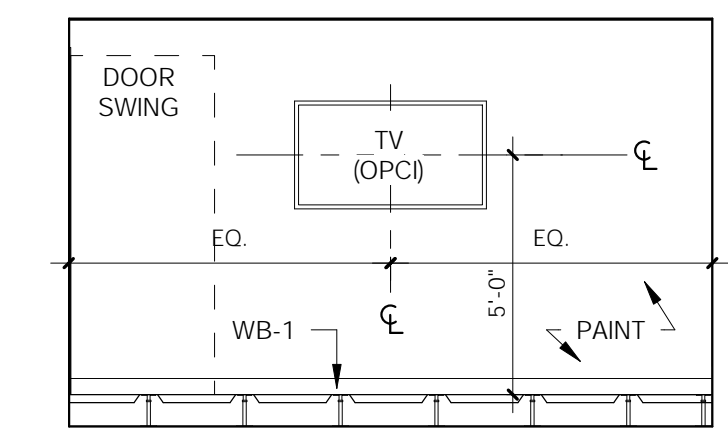
3 E.O.C. 006 - WEST ELEVATION
 SCALE 1/4" = 1'-0"



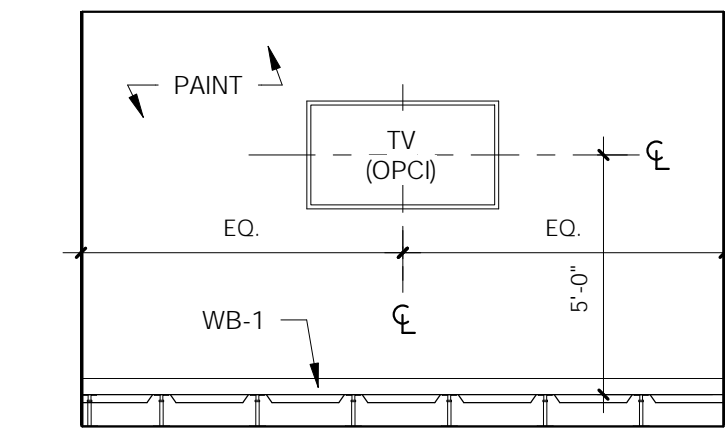
4 E.O.C. 006 - SOUTH ELEVATION
 SCALE 1/4" = 1'-0"



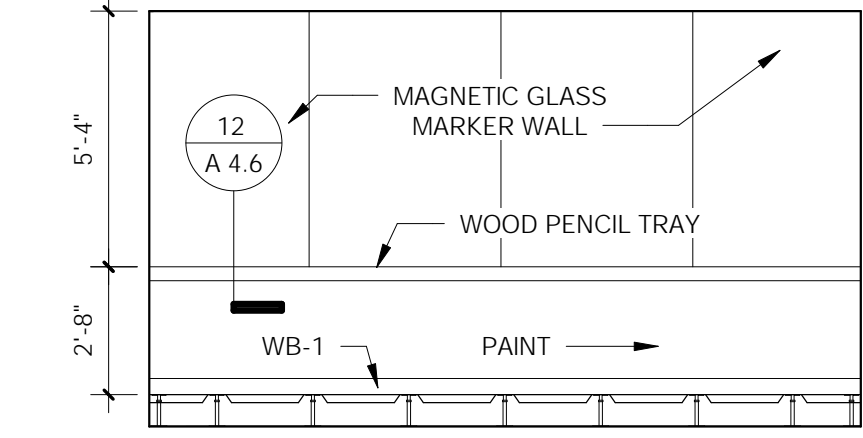
5 BREAK OUT 007 - WEST
 SCALE 1/4" = 1'-0"



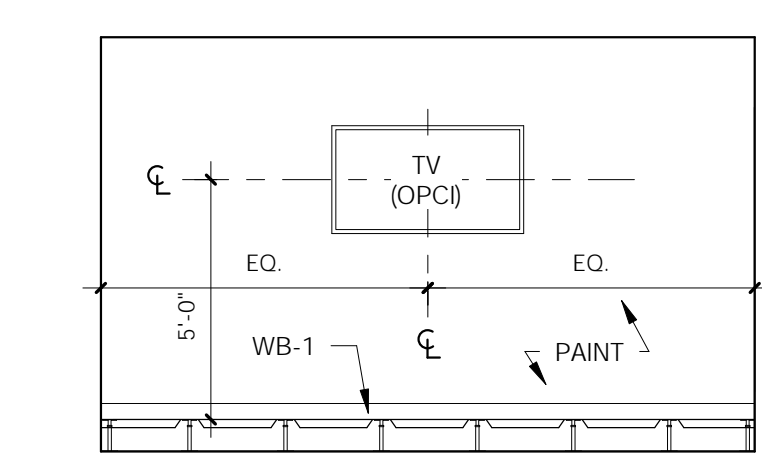
6 BREAK OUT 007 - NORTH
 SCALE 1/4" = 1'-0"



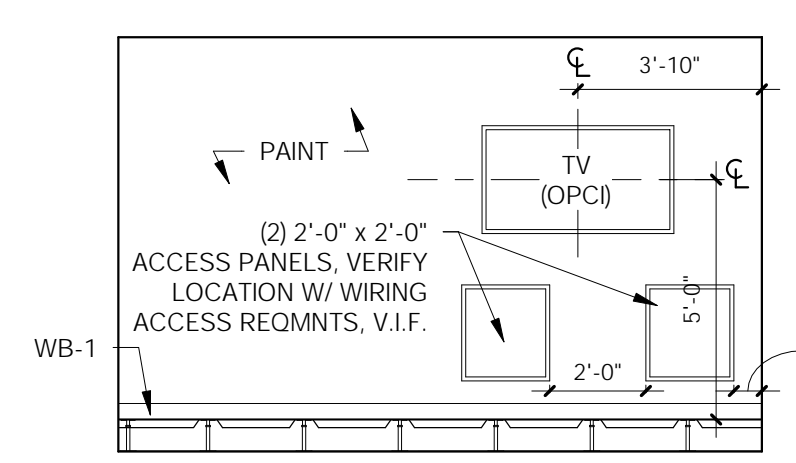
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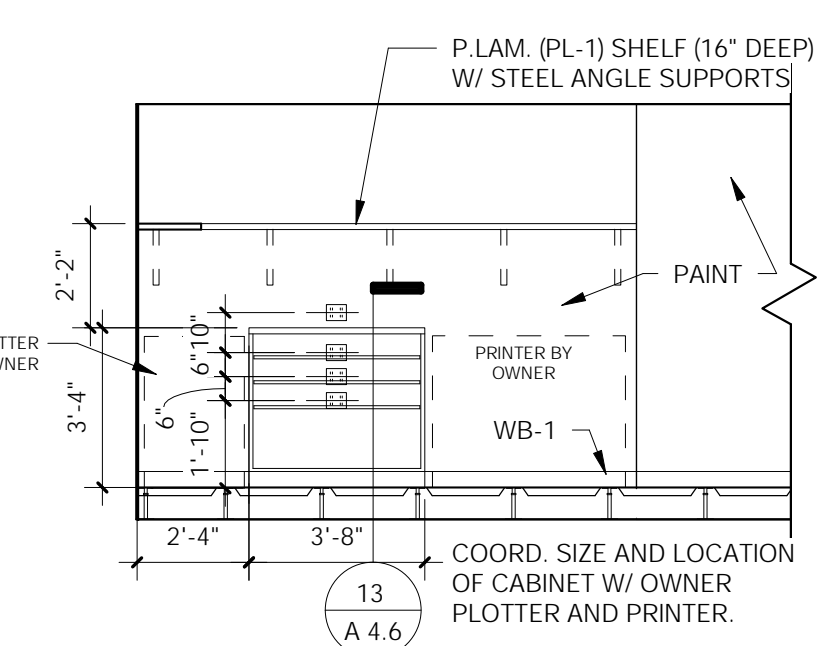
8 BREAK OUT 014 - SOUTH
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 (CONFERENCE 026, SIM.)



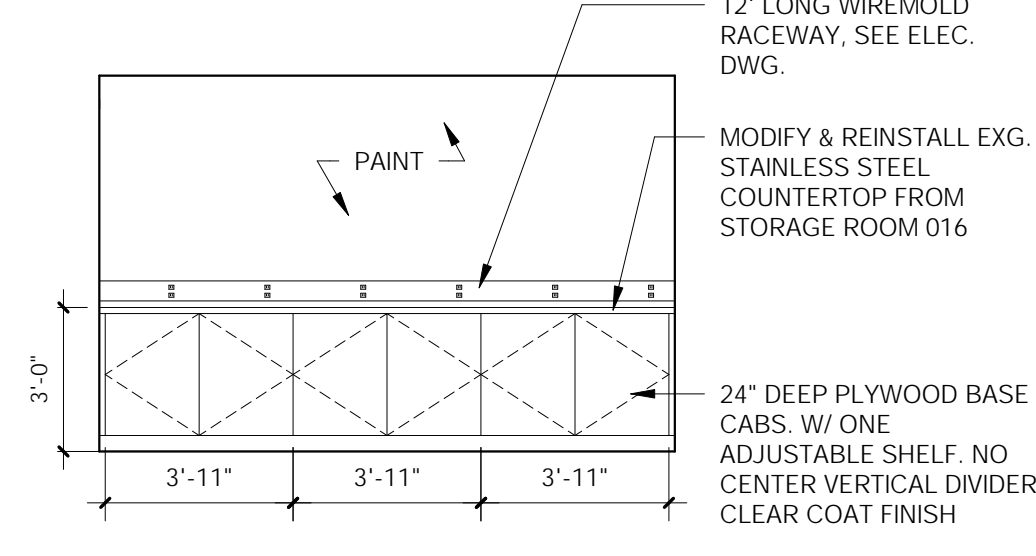
9 BREAK OUT 014 - EAST
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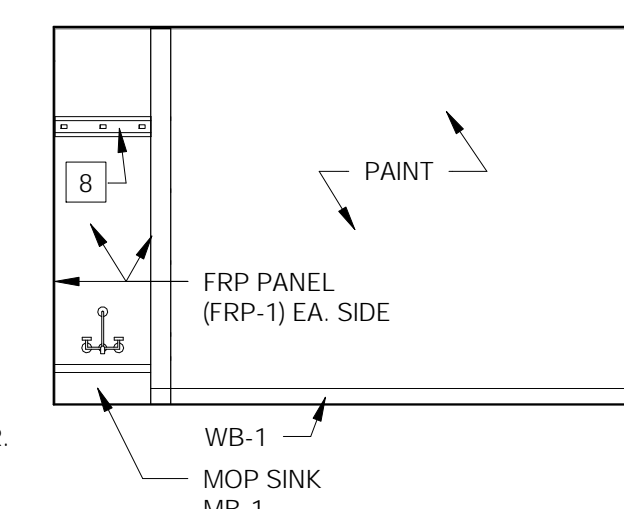
10 RADIO 009 - SOUTH
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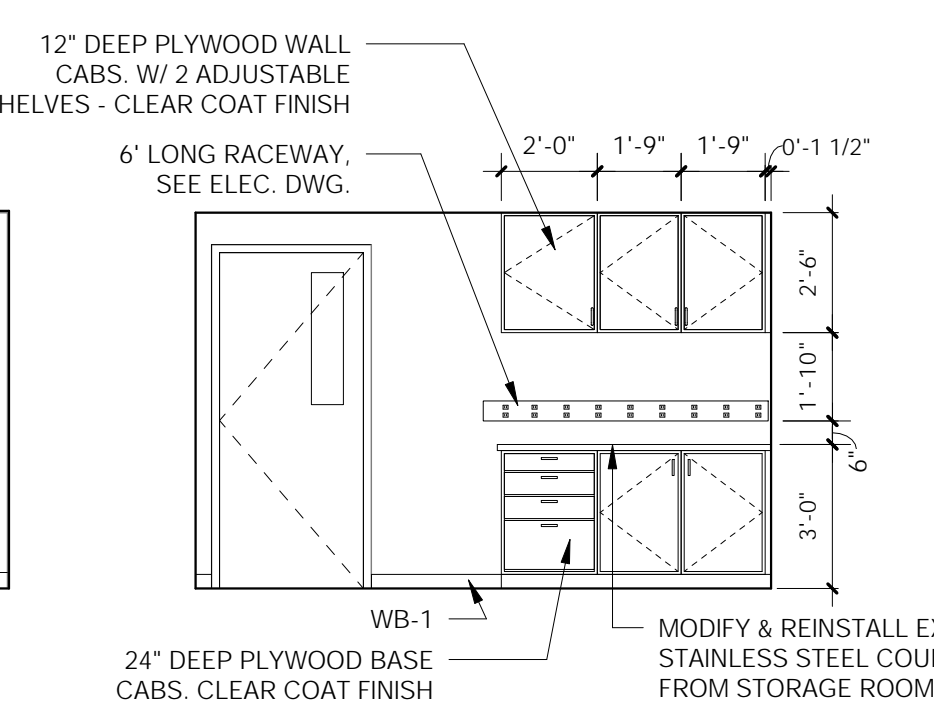
11 STORAGE 015 - WEST
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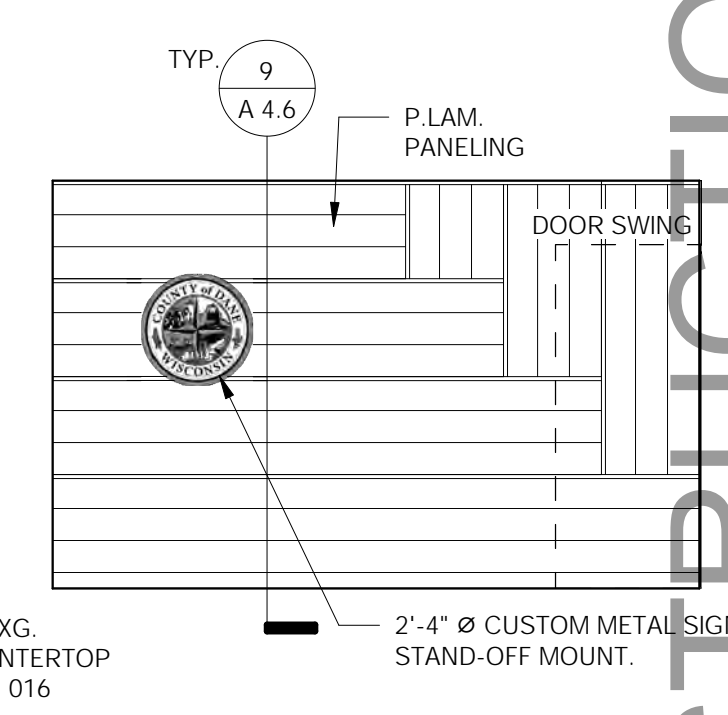
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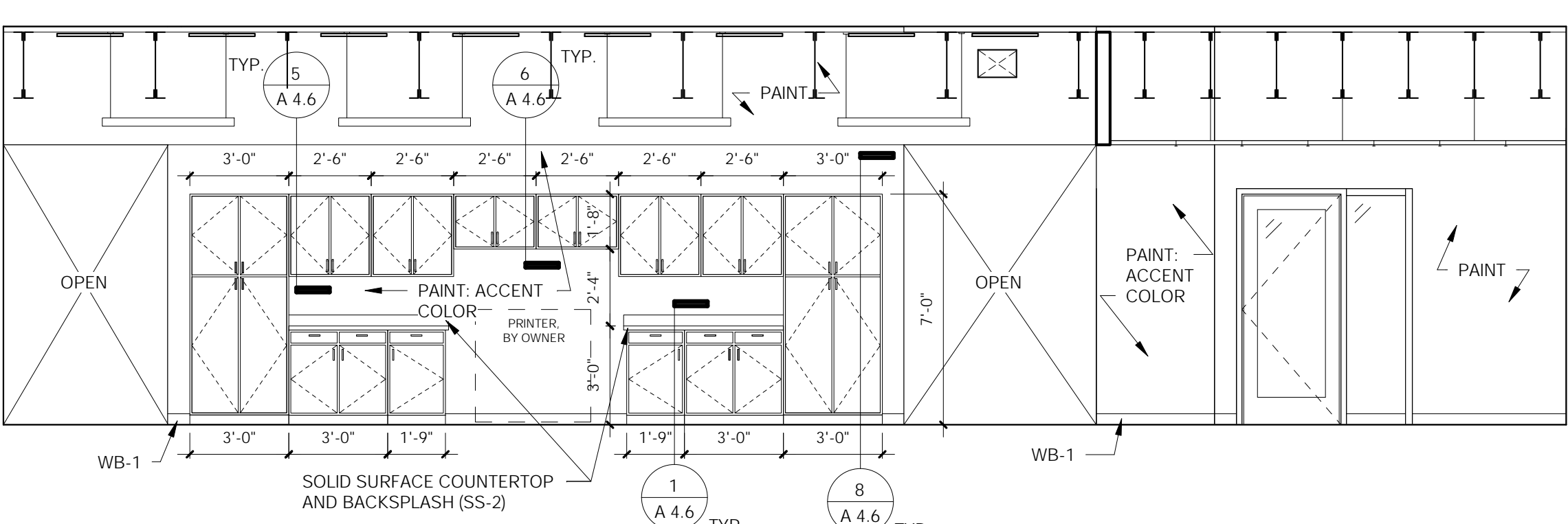
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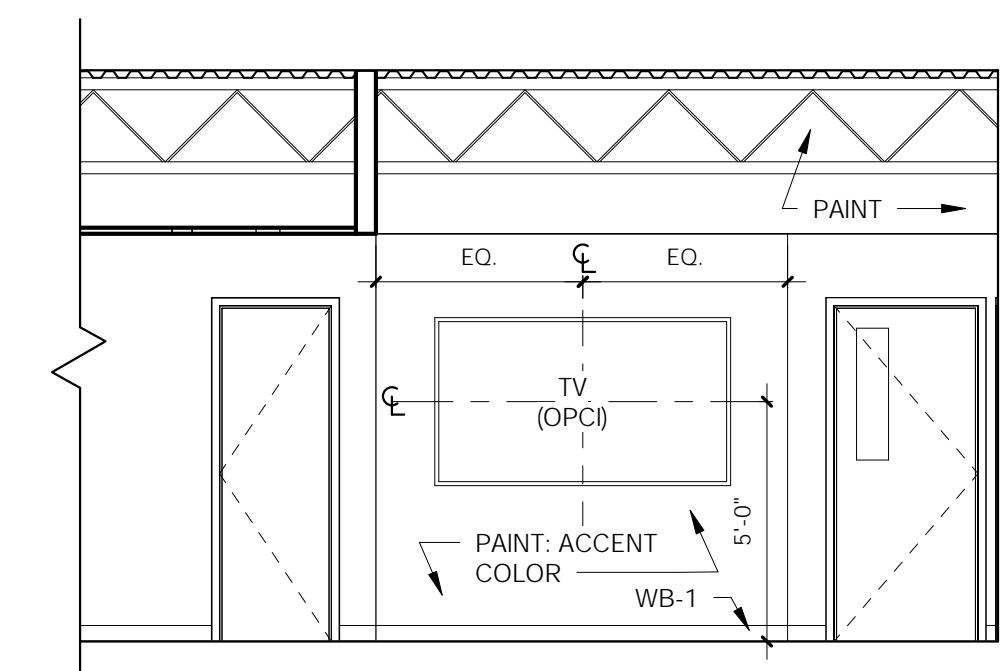
14 TOOL STOR. 020 - WEST
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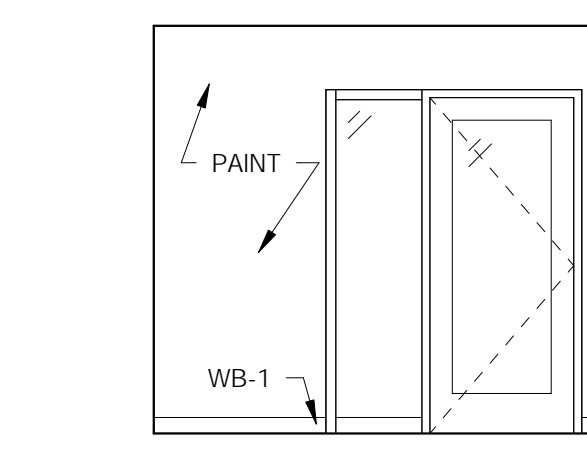
15 CONF 023 - SOUTH
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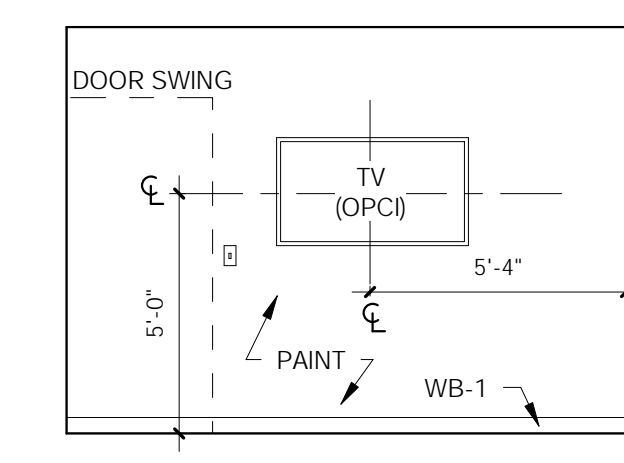
16 WORK SPACE 036 - NORTH ELEV.
 SCALE 1/4" = 1'-0"



17 WORK SPACE 036 - EAST ELEV.
 SCALE 1/4" = 1'-0"



18 OFFICE - TYP. ELEV. 1
 SCALE 1/4" = 1'-0"



19 OFFICE - TYP. ELEV. 2
 SCALE 1/4" = 1'-0"



**DANE COUNTY EMERGENCY
 MANAGEMENT REMODEL**
 5415 KING JAMES WAY
 FITCHBURG, WISCONSIN

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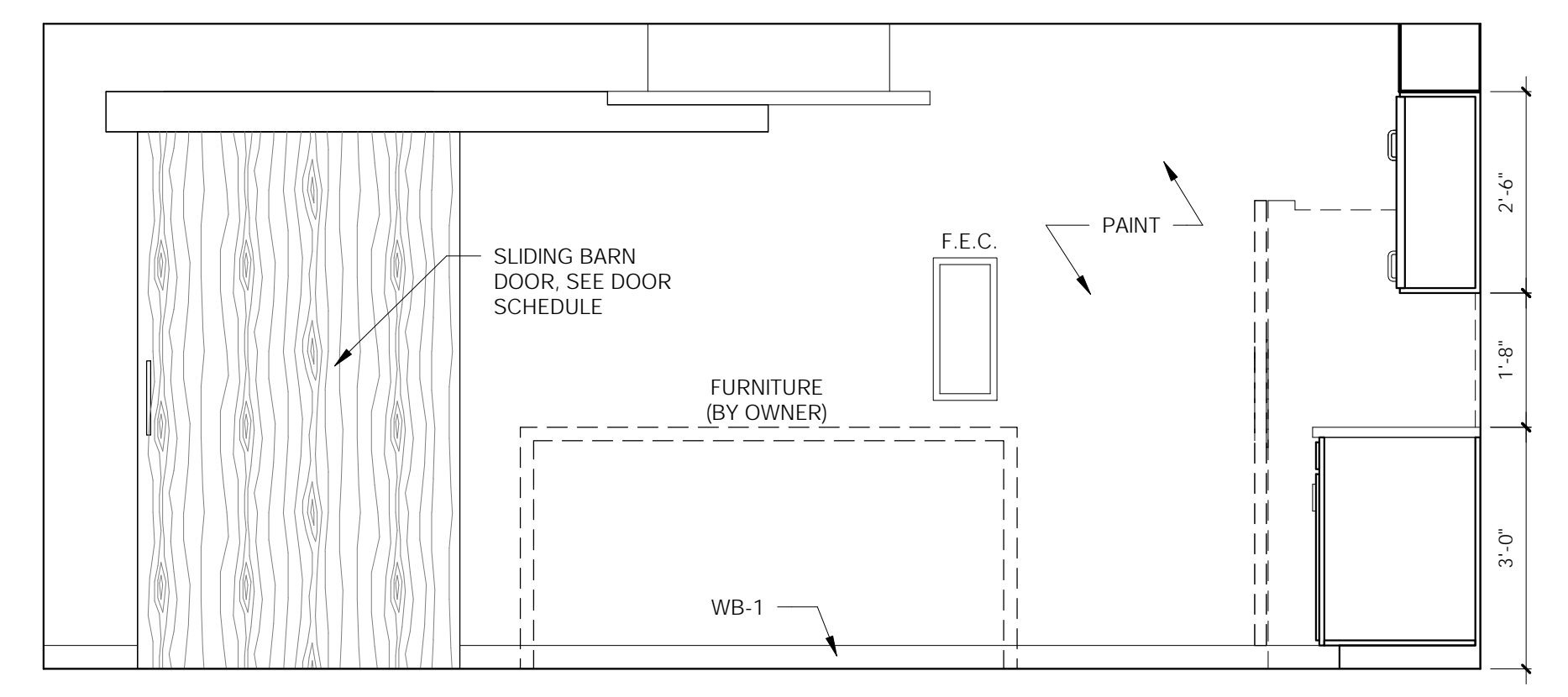
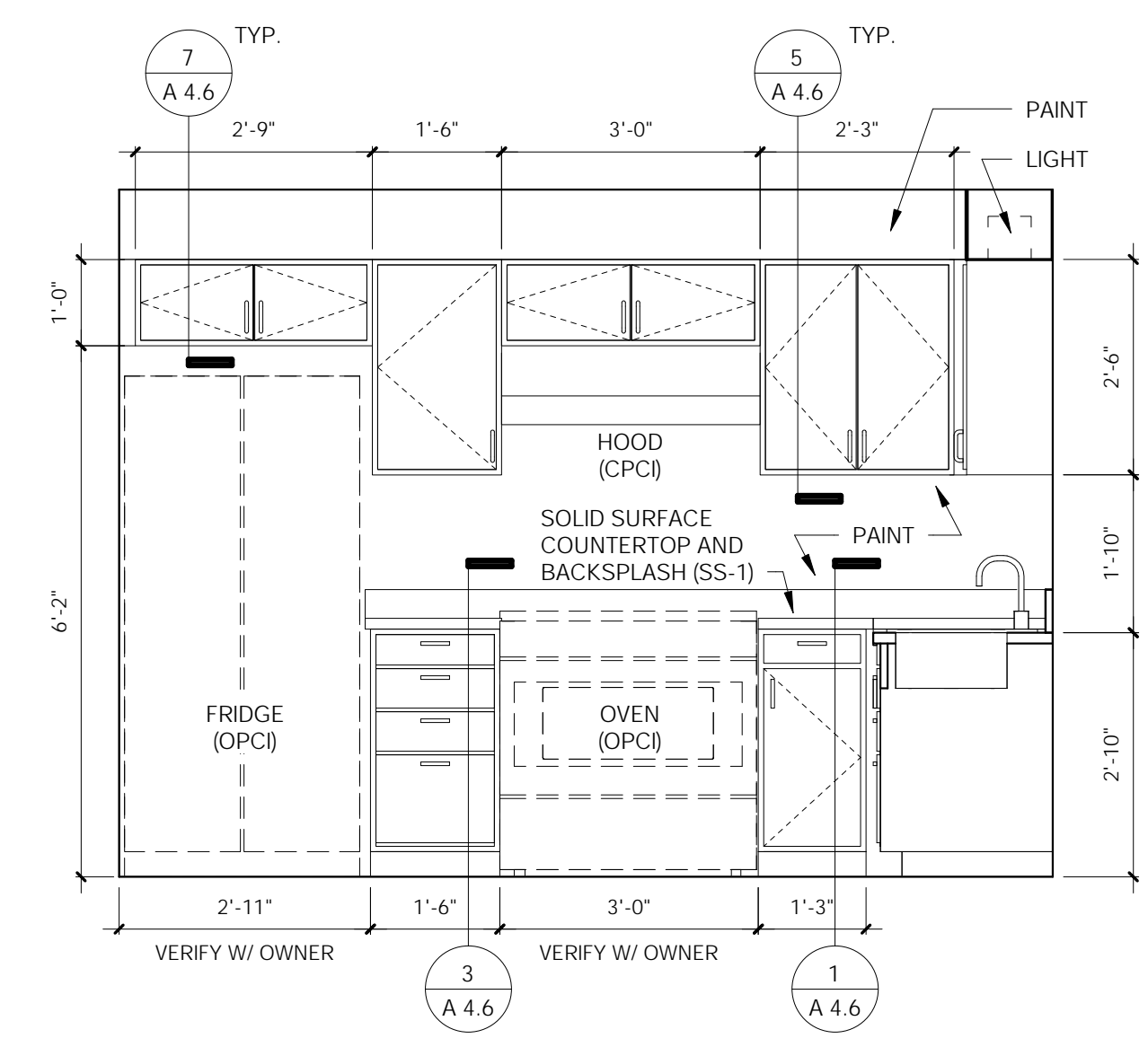
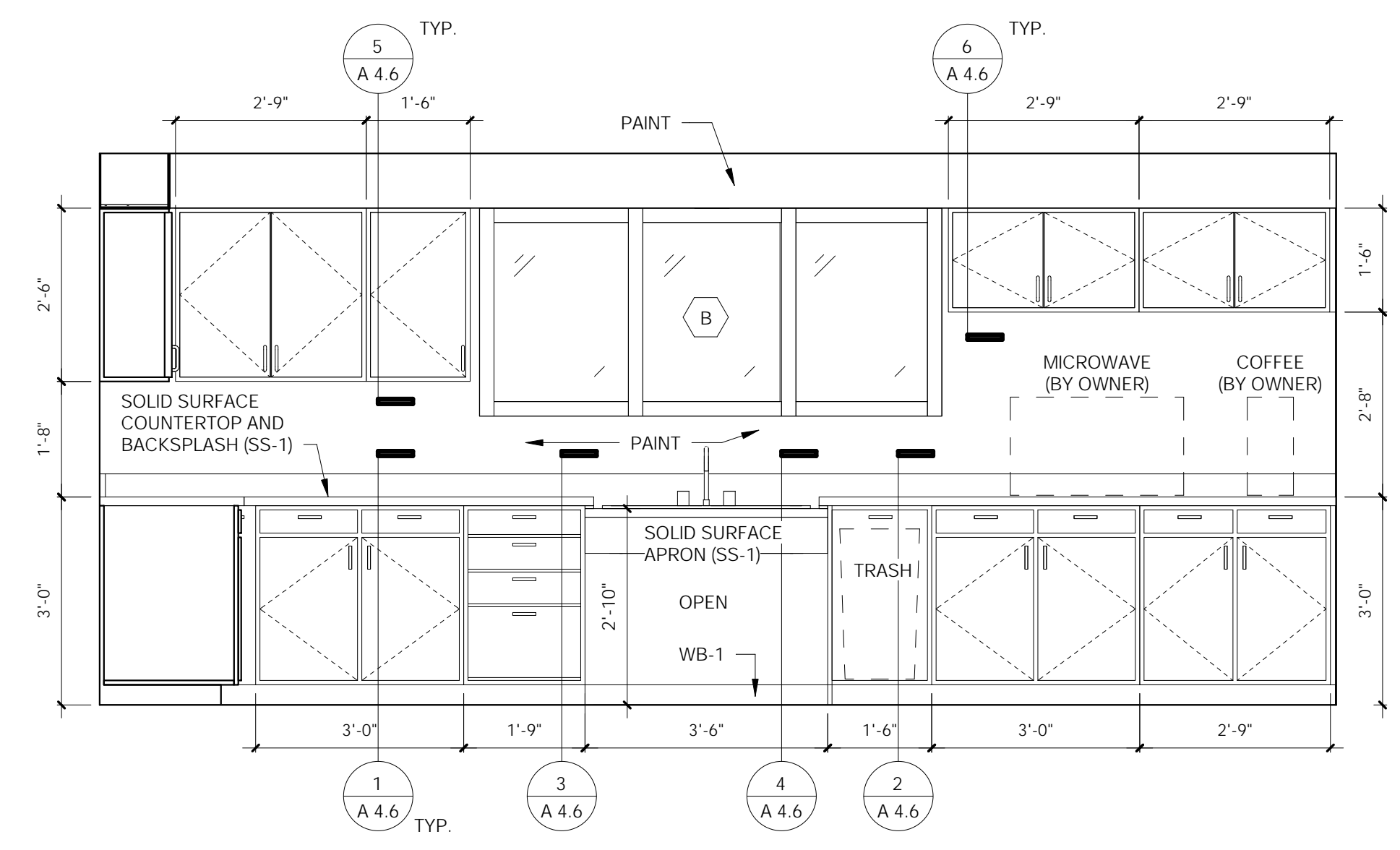
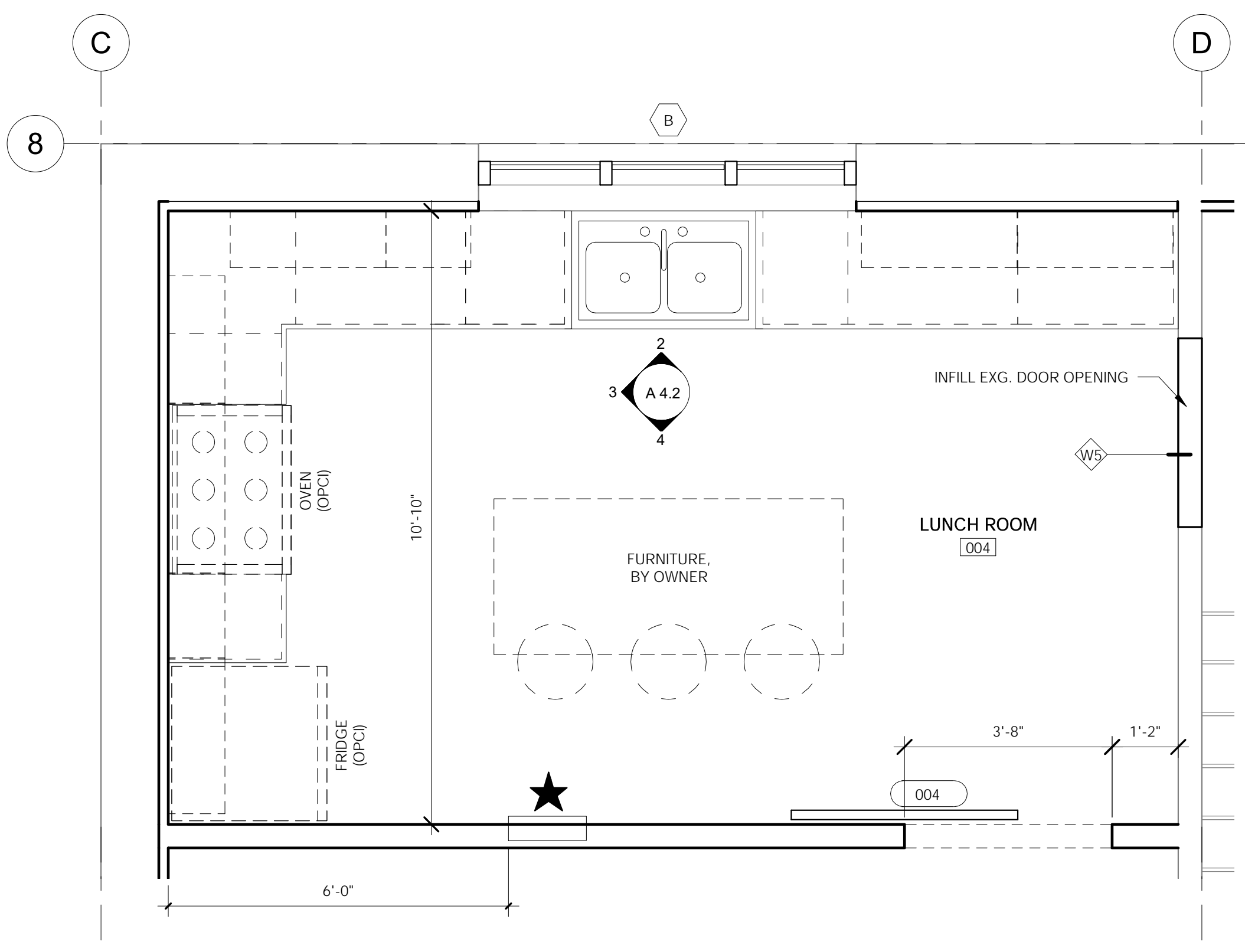
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 2020-001

ENLARGED
 FLOOR PLAN +
 INTERIOR
 ELEVATIONS
A 4.2

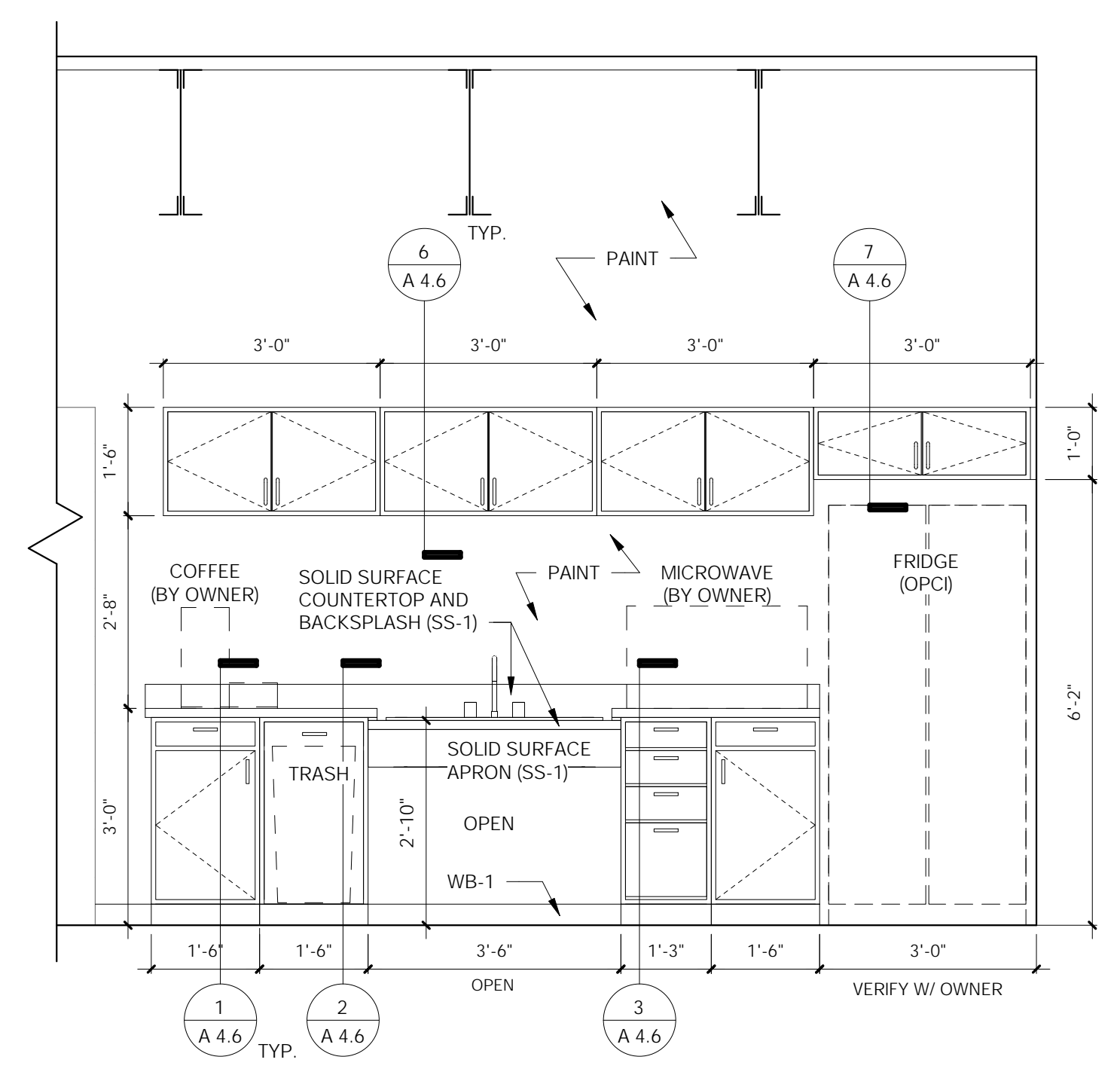
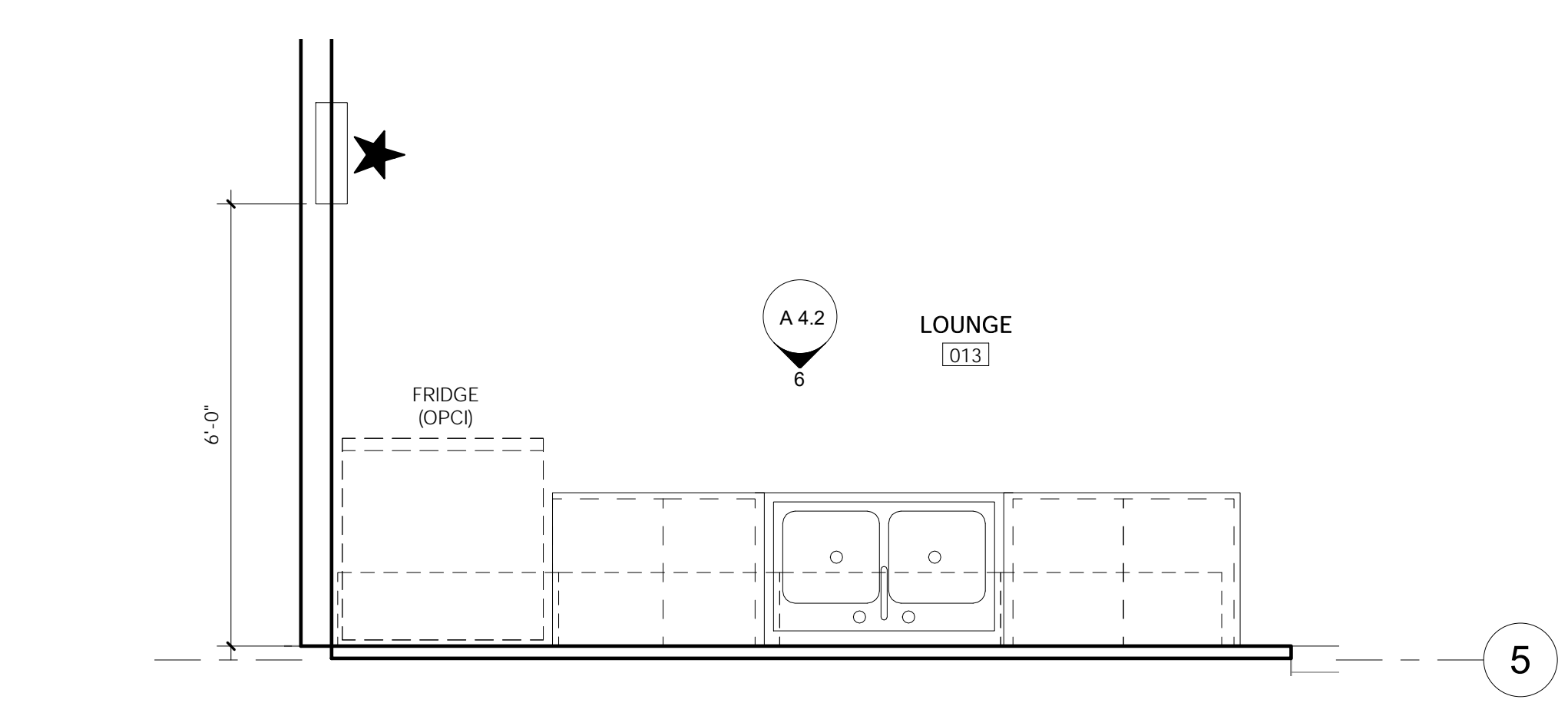
NOT FOR CONSTRUCTION



1 ENLARGED KITCHEN PLAN
 SCALE 1/2" = 1'-0"

4 LUNCH RM 004 - SOUTH ELEVATION
 SCALE 1/2" = 1'-0"

3 LUNCH RM 004 - WEST ELEVATION
 SCALE 1/2" = 1'-0"



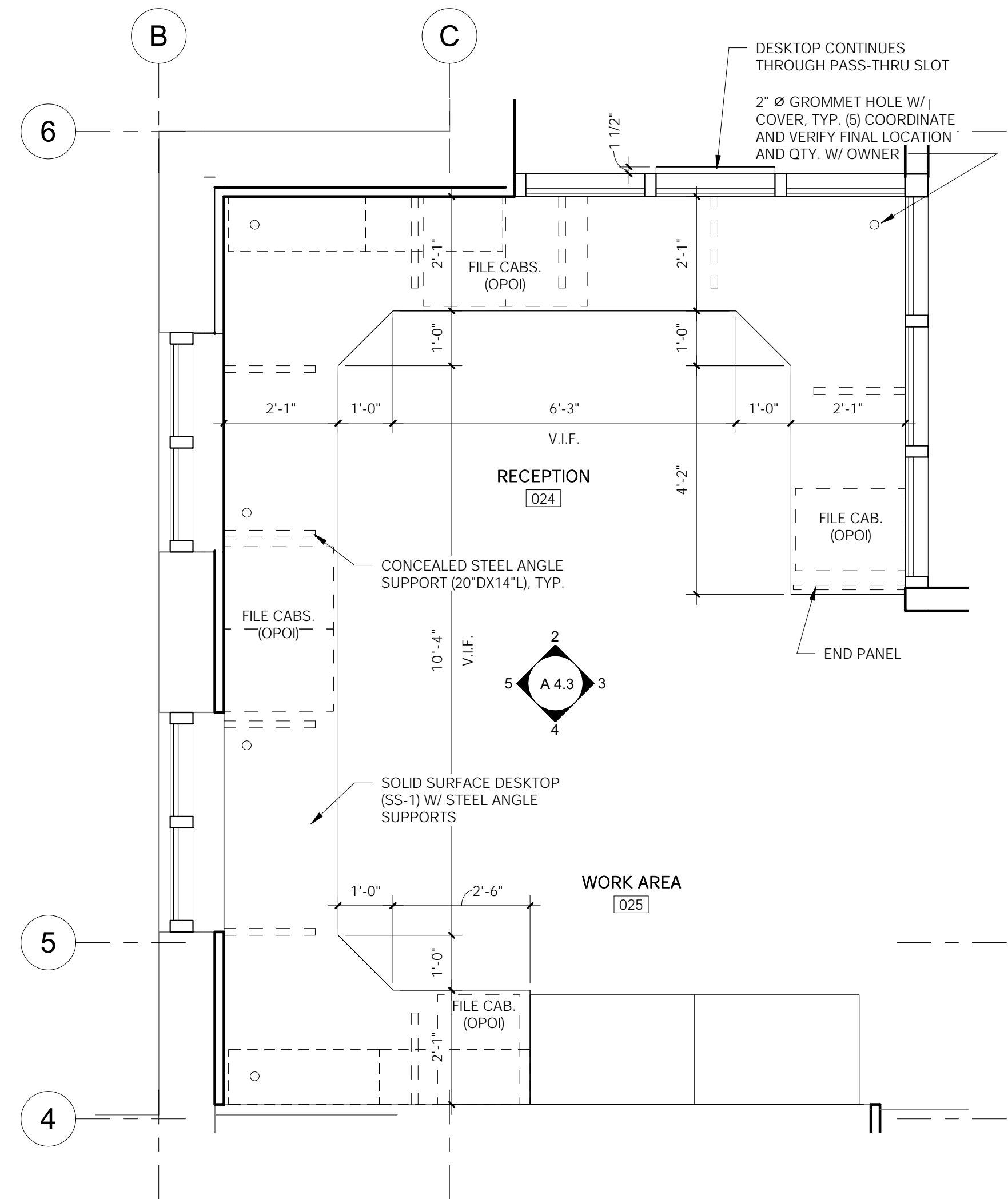
5 ENLARGED LOUNGE PLAN
 SCALE 1/2" = 1'-0"

6 LOUNGE 013 - SOUTH ELEVATION
 SCALE 1/2" = 1'-0"

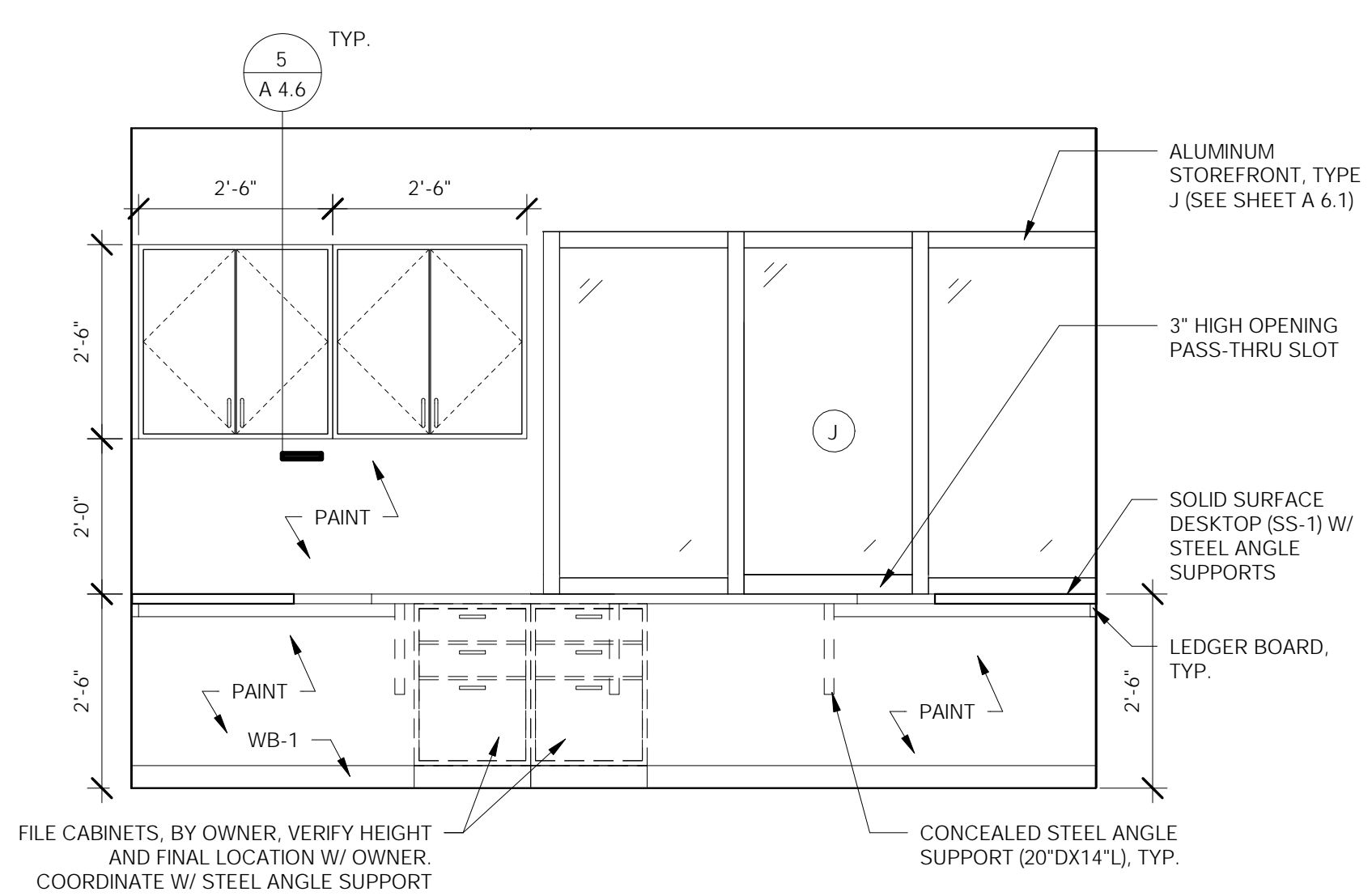


DANE COUNTY EMERGENCY MANAGEMENT REMODEL
 5415 KING JAMES WAY
 FITCHBURG, WISCONSIN

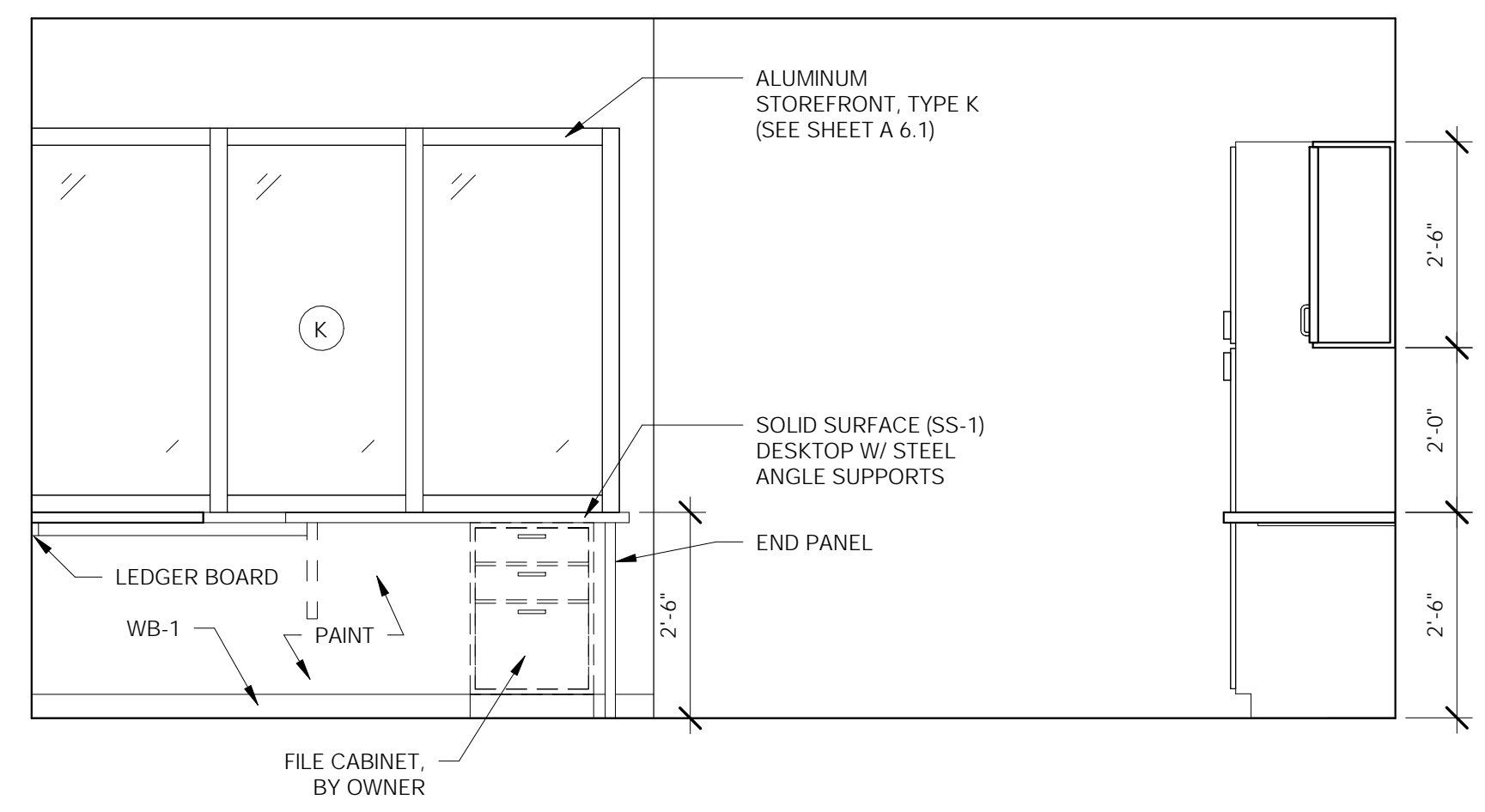
NOT FOR CONSTRUCTION



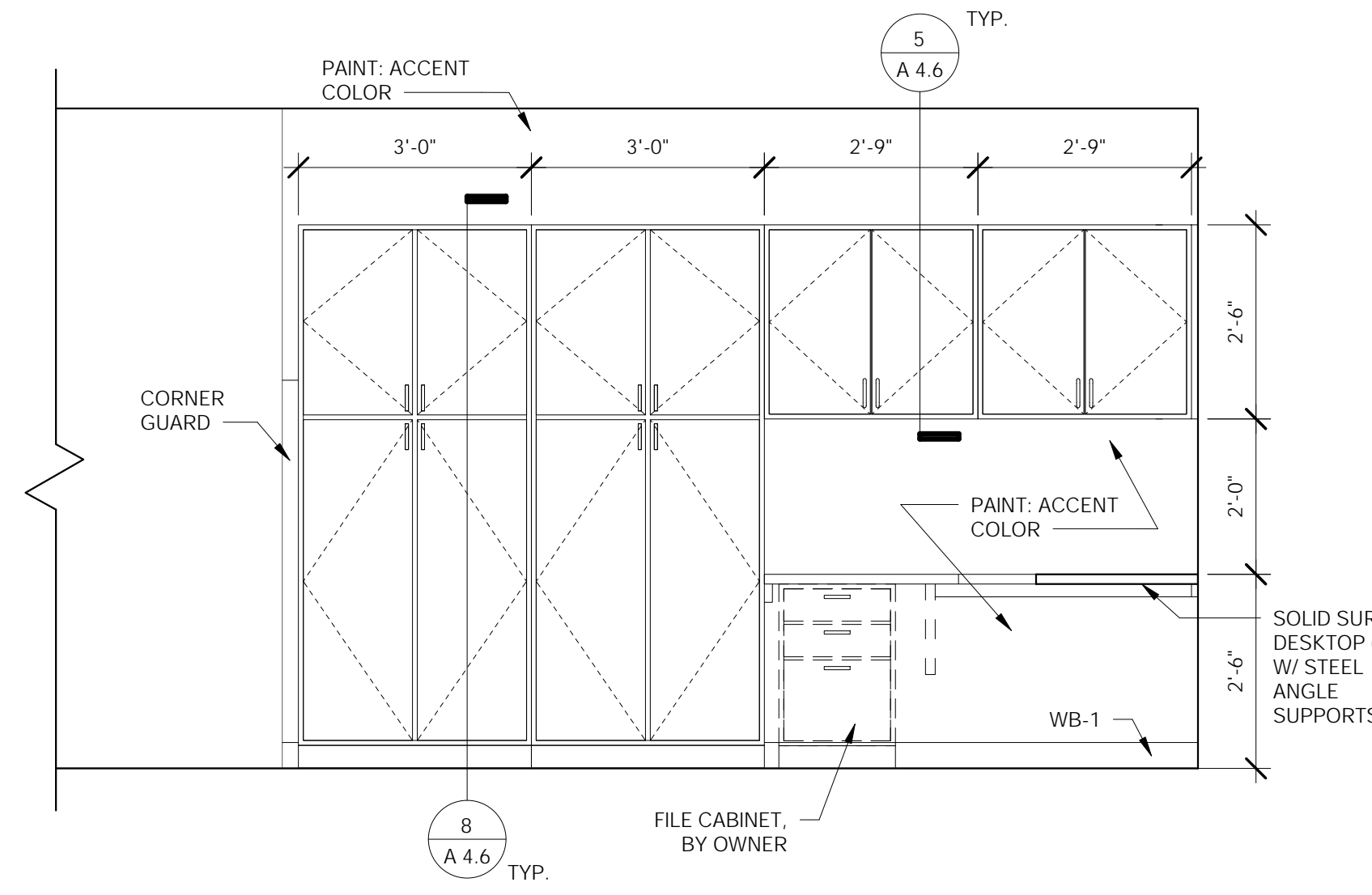
1 ENLARGED RECEPTION PLAN
 SCALE 1/2" = 1'-0"



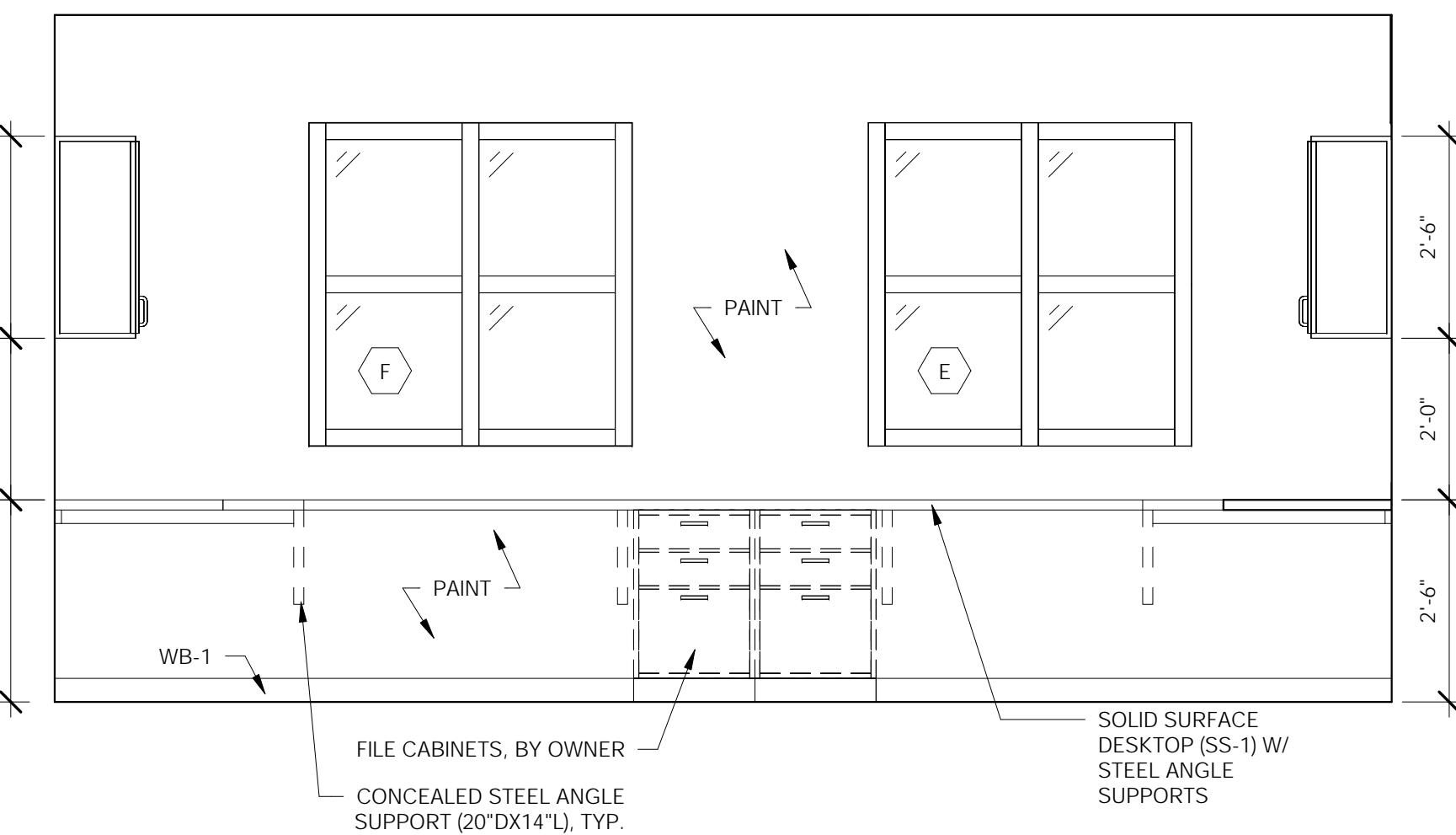
2 RECEPTION 024 - NORTH ELEVATION
 SCALE 1/2" = 1'-0"



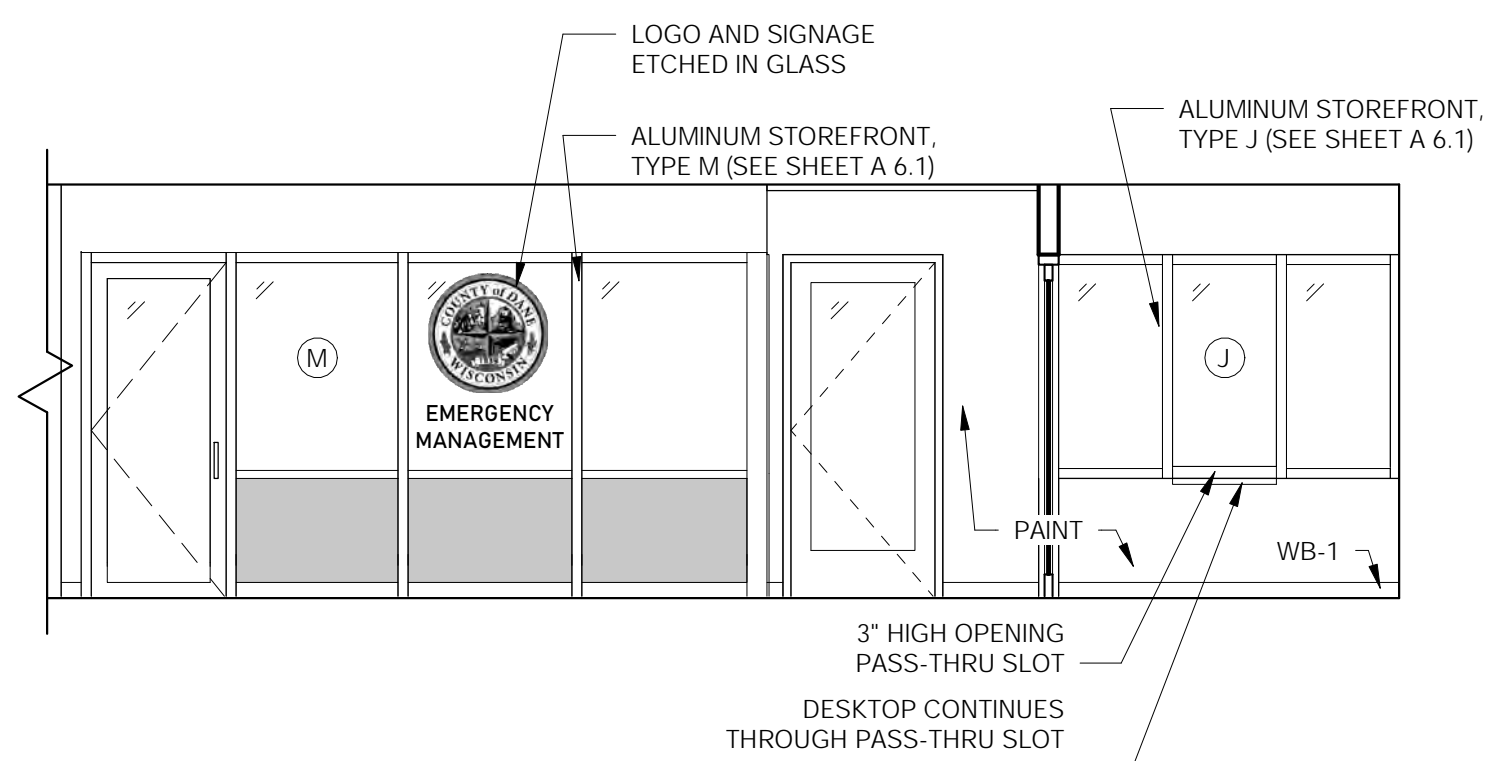
3 RECEPTION 024 - EAST ELEVATION
 SCALE 1/2" = 1'-0"



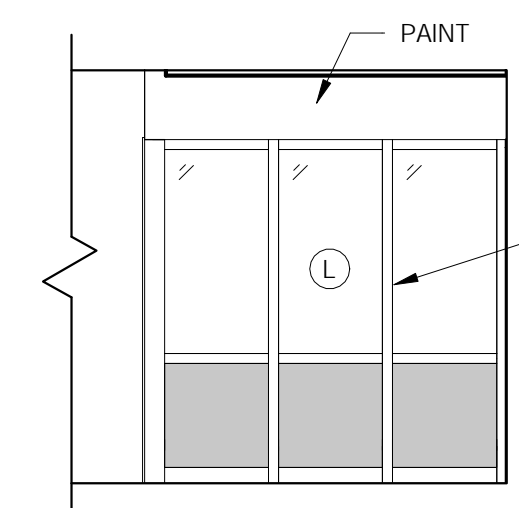
4 WORK AREA 025 - SOUTH ELEVATION
 SCALE 1/2" = 1'-0"



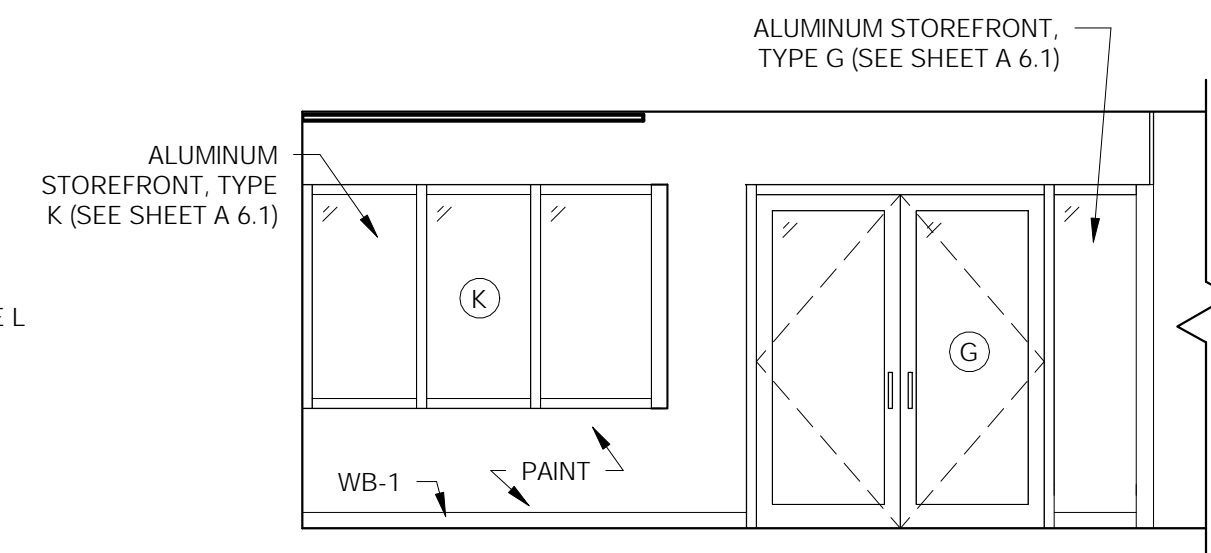
5 WORK AREA 025 - WEST ELEVATION
 SCALE 1/2" = 1'-0"



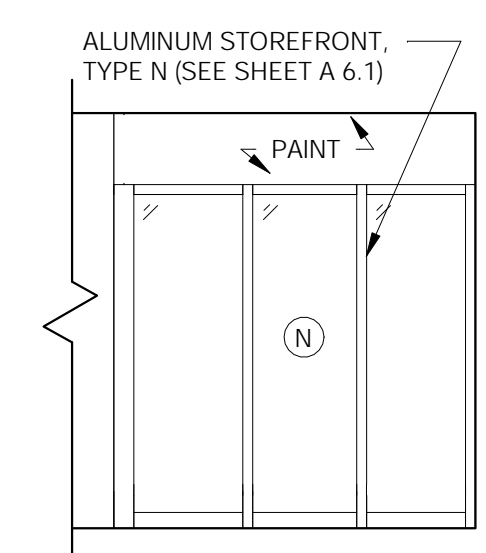
6 LOBBY 002 - SOUTH
 SCALE 1/4" = 1'-0"



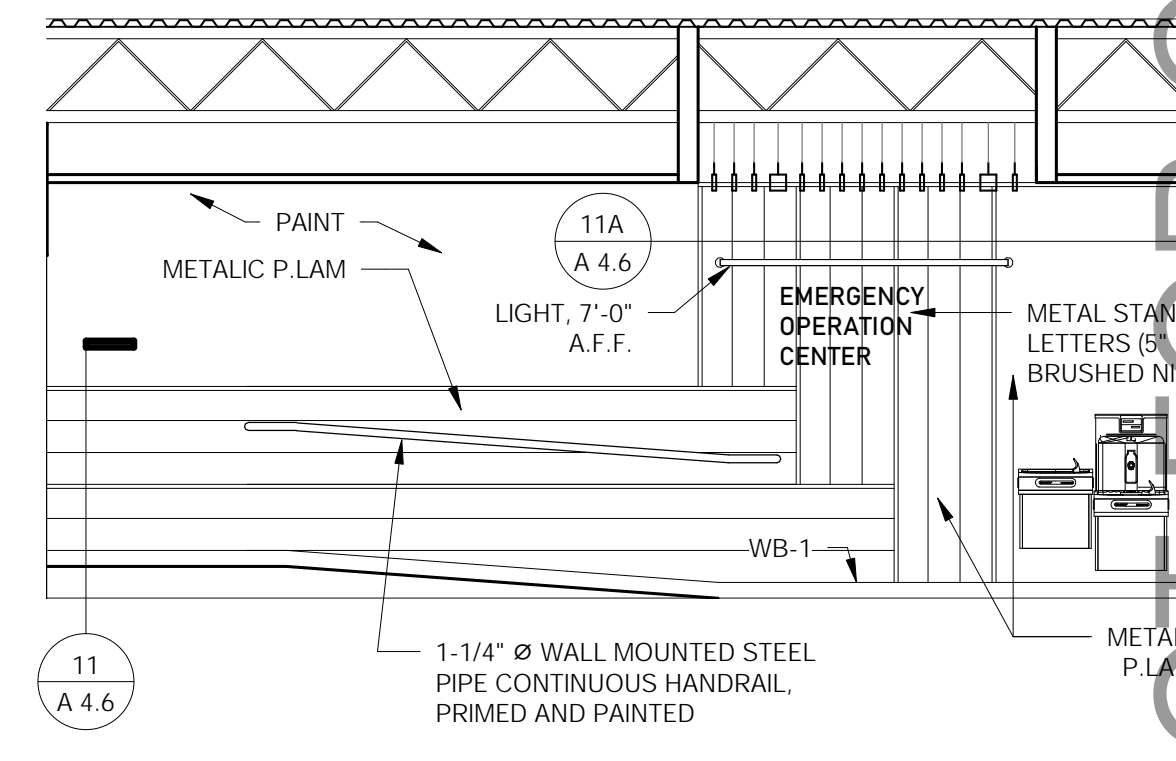
7 LOBBY 002 - EAST 1
 SCALE 1/4" = 1'-0"



8 LOBBY 002 - WEST
 SCALE 1/4" = 1'-0"



9 DISPLAY 003 - SOUTH
 SCALE 1/4" = 1'-0"



10 LOBBY 002 - EAST 2
 SCALE 1/4" = 1'-0"

CLIENT APPROVAL

APPROVED
 APPROVED AS NOTED
 APPROVED BY / DATE:

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HVAC REDESIGN	04/30/21
ISSUE FOR BID	06/08/21

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ENLARGED FLOOR PLAN + INTERIOR ELEVATIONS
A 4.3



DANE COUNTY EMERGENCY MANAGEMENT REMODEL
 5415 KING JAMES WAY
 FITCHBURG, WISCONSIN

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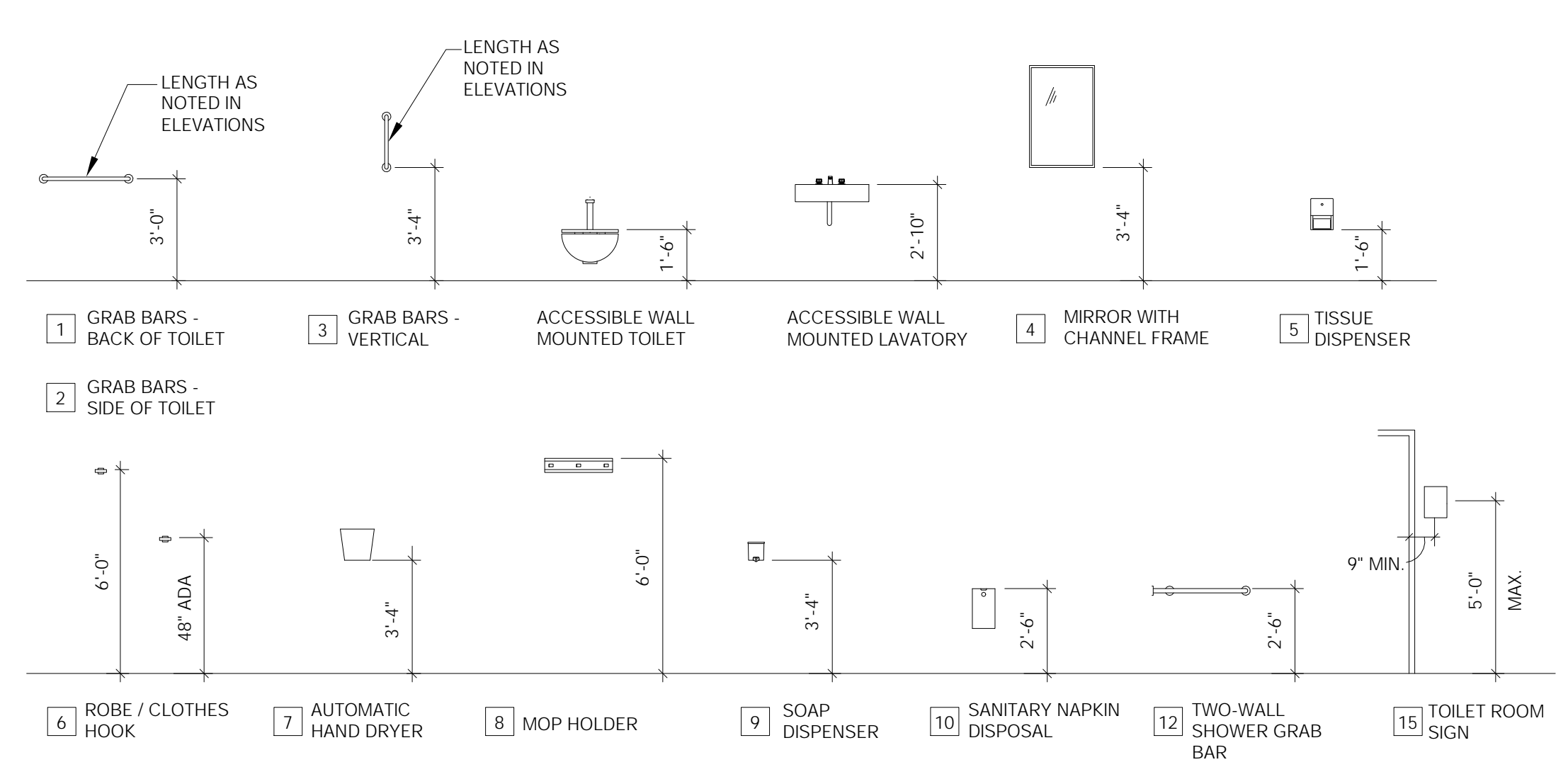
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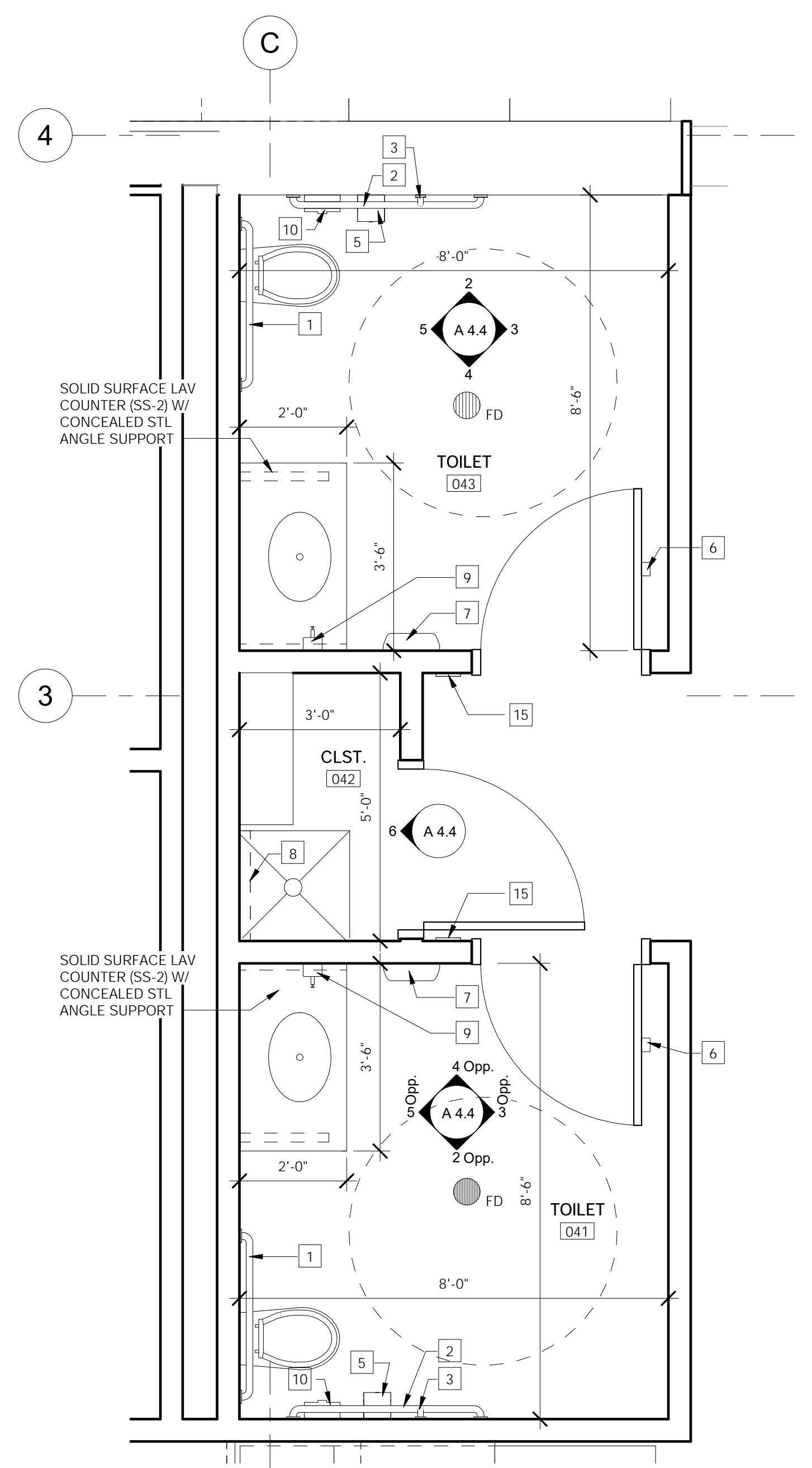
ENLARGED FLOOR PLAN + INTERIOR ELEVATIONS
A 4.4

TOILET ACCESSORIES HEIGHTS

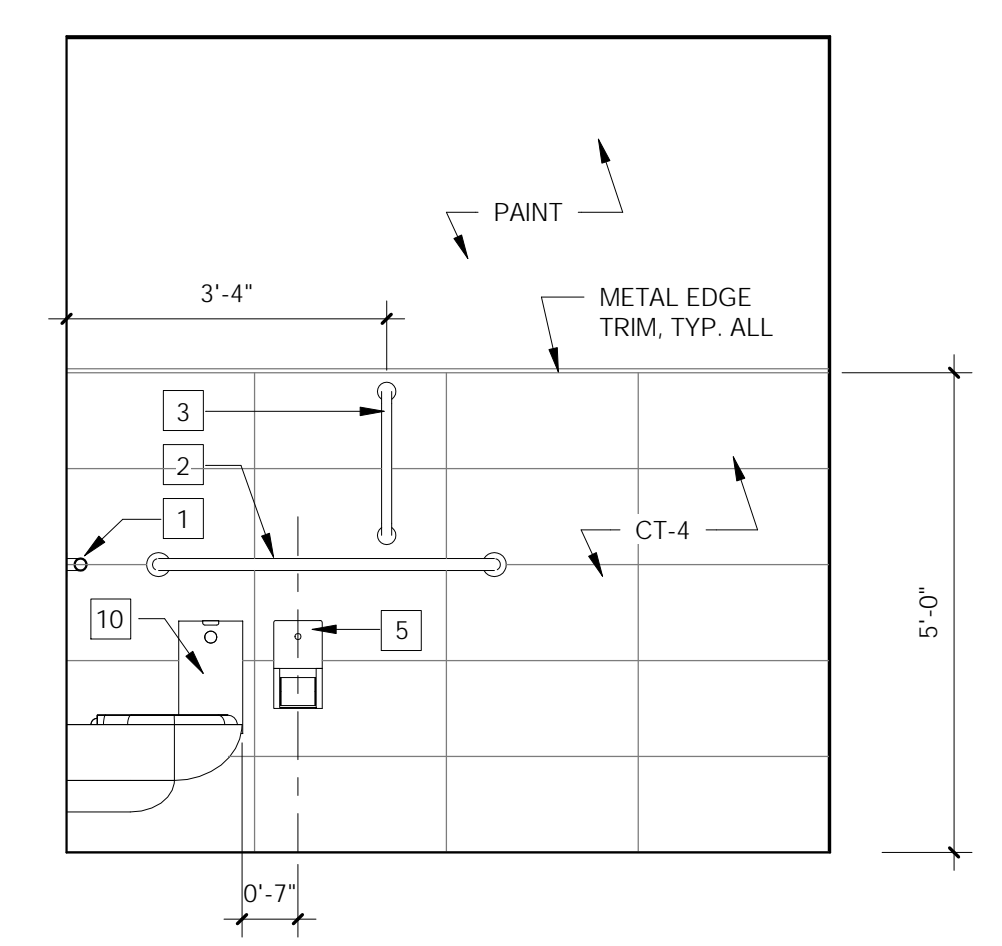


TOILET ACCESSORIES SCHEDULE

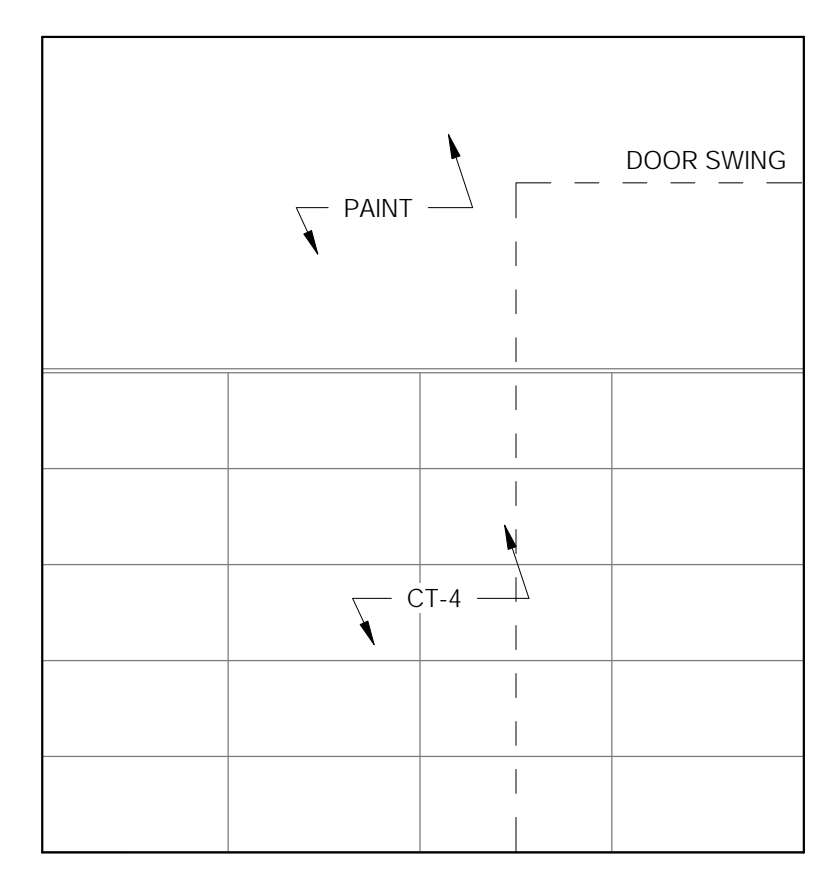
MARK	DESCRIPTION	EQUAL TO BOBRICK	HORIZONTAL MOUNTING LOCATION	FINISH	COMMENTS
1	GRAB BARS - BACK OF TOILET	B-5806 X 36"	6" FROM SIDE WALL TO END OF BAR	SATIN STAINLESS STEEL	
2	GRAB BARS - SIDE OF TOILET	B-5806 X 42"	12" FROM SIDE WALL TO END OF BAR	SATIN STAINLESS STEEL	
3	GRAB BARS - VERTICAL	B-5806 X 18"	SEE DRAWINGS	SATIN STAINLESS STEEL	
4	MIRROR WITH CHANNEL FRAME	B-165 2436	CENTERLINE OF LAVATORY	SATIN STAINLESS STEEL	
5	TISSUE DISPENSER	B-2888	7" FROM CENTERLINE OF UNIT TO FRONT OF TOILET	SATIN STAINLESS STEEL	
6	ROBE / CLOTHES HOOK	B-7672	CENTERLINE OF PARTITION DOOR, U.N.O.	SATIN STAINLESS STEEL	
7	AUTOMATIC HAND DRYER	B-7125	SEE DRAWINGS	SATIN STAINLESS STEEL	
8	MOP HOLDER	B-223	SEE DRAWINGS	SATIN STAINLESS STEEL	
9	SOAP DISPENSER	B-2111	SEE DRAWINGS	SATIN STAINLESS STEEL	
10	SANITARY NAPKIN DISPOSAL	B-270	SEE DRAWINGS	SATIN STAINLESS STEEL	
11	UNDER LAVATORY GUARD	SEE PLUMBING DRAWINGS			
12	TWO-WALL SHOWER GRAB BAR	B-6861		SATIN STAINLESS STEEL	
13	FOLDING SHOWER SEAT	B-5192			
14	SHOWER CURTAIN AND ROD	B-6107X36 / B-204-2		SATIN STAINLESS STEEL	
15	TOILET ROOM SIGN		9" MIN. CENTER OF SIGN TO EDGE OF DR, SEE DWGS.	PLASTIC	VERIFY STYLE & COLOR W/ OWNER



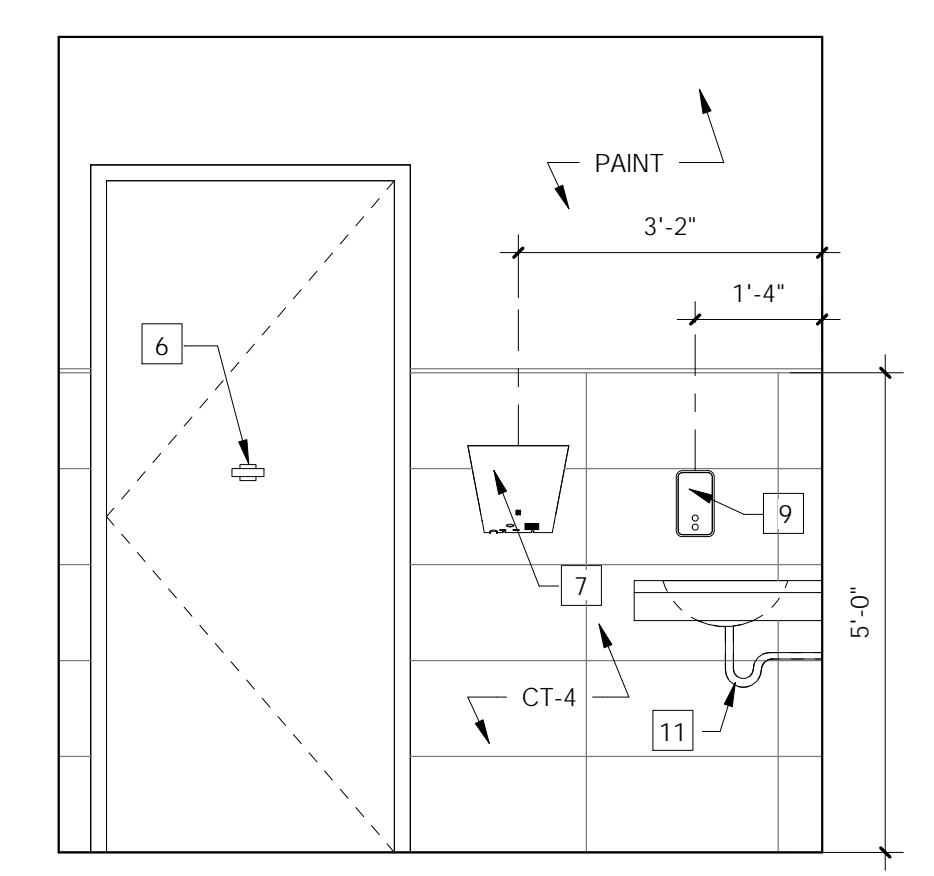
1 ENLARGED TOILET ROOMS PLAN
 SCALE 1/2" = 1'-0"



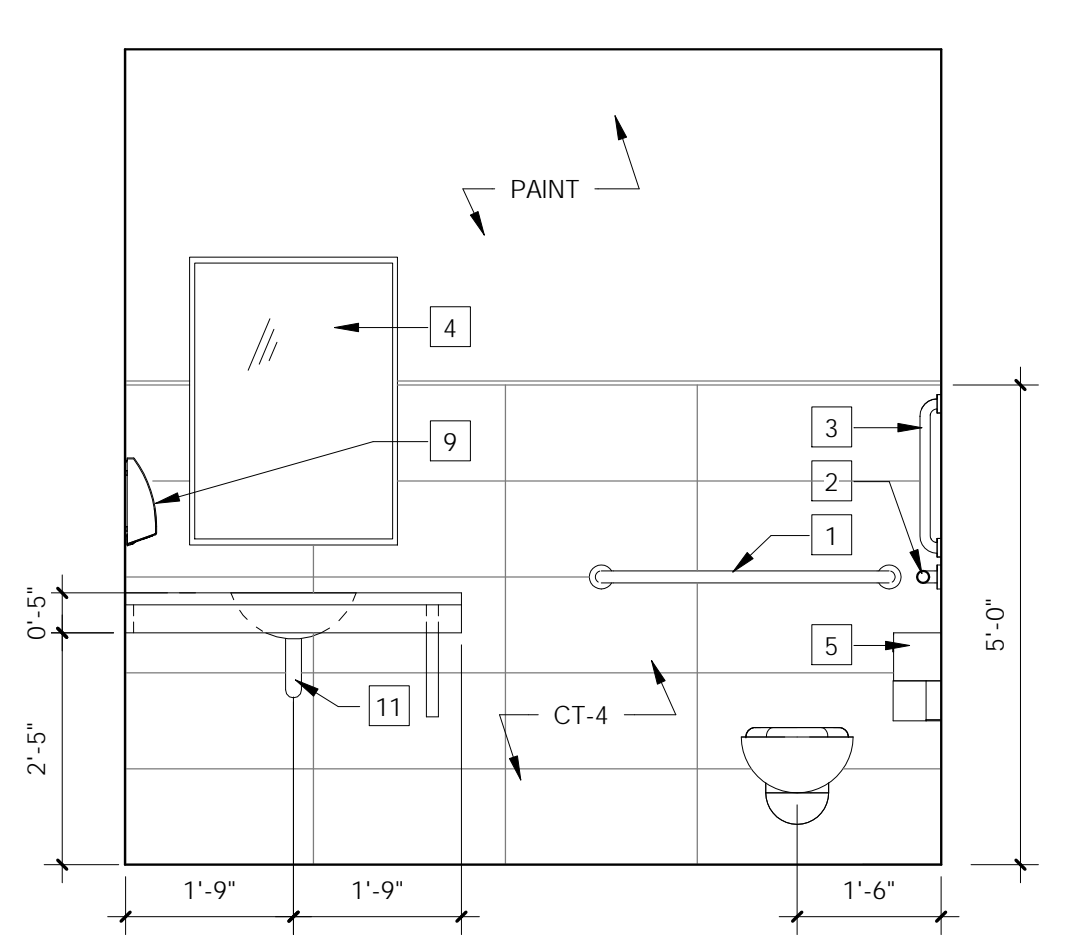
2 TOILET 043 - NORTH ELEVATION / 041 OPP.
 SCALE 1/2" = 1'-0"



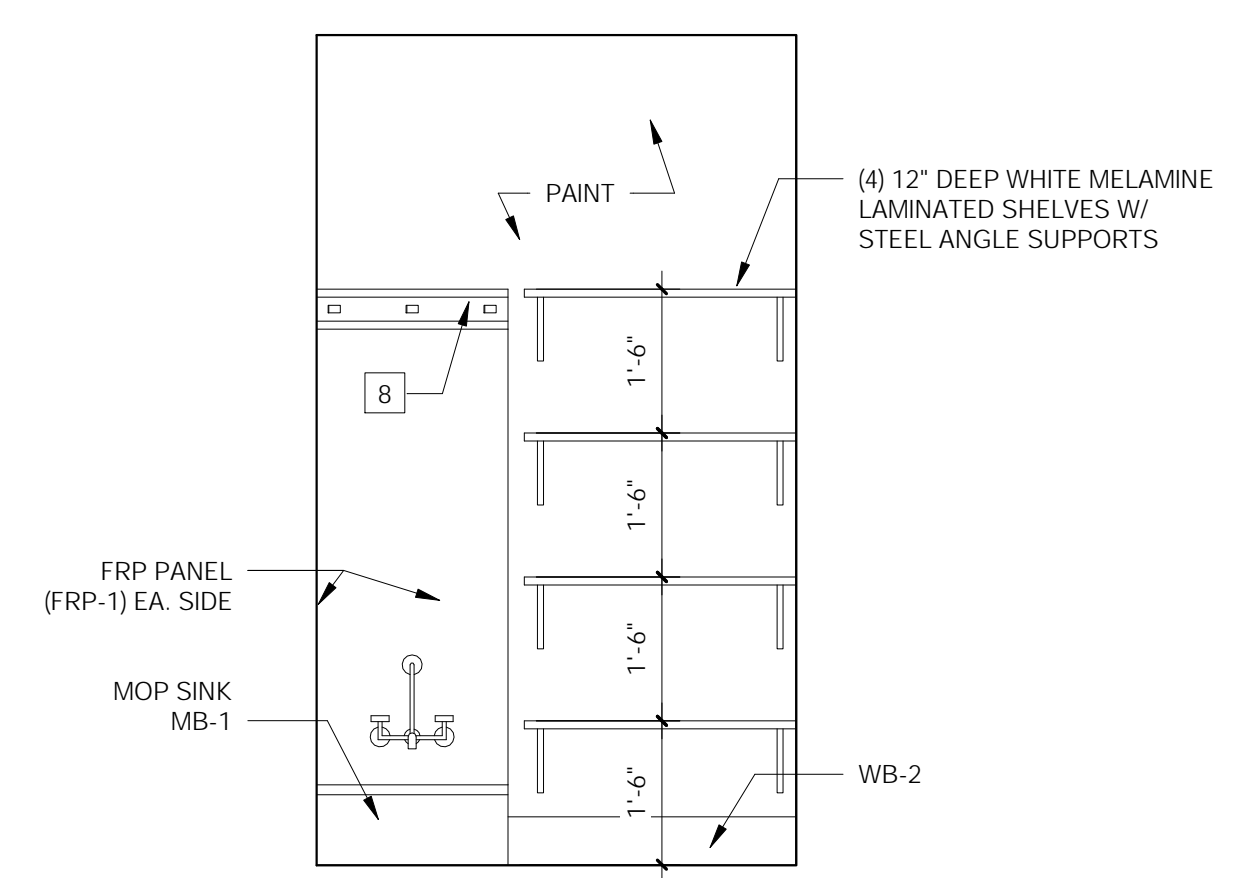
3 TOILET 043 - EAST ELEVATION / 041 OPP.
 SCALE 1/2" = 1'-0"



4 TOILET 043 - SOUTH ELEVATION / 041 OPP.
 SCALE 1/2" = 1'-0"



5 TOILET 043 - WEST ELEVATION / 041 OPP.
 SCALE 1/2" = 1'-0"

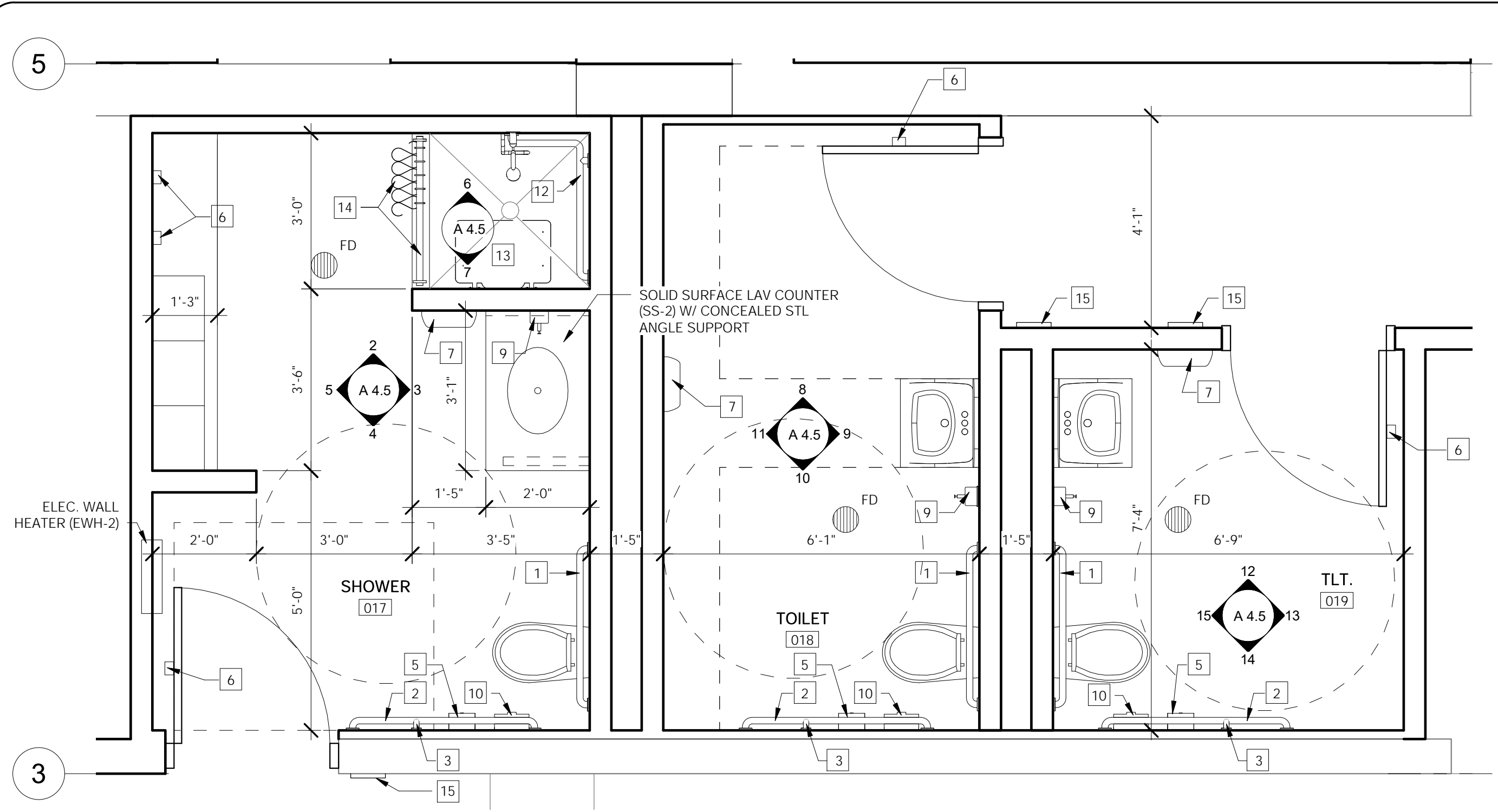


6 CLOSET 042 - WEST
 SCALE 1/2" = 1'-0"

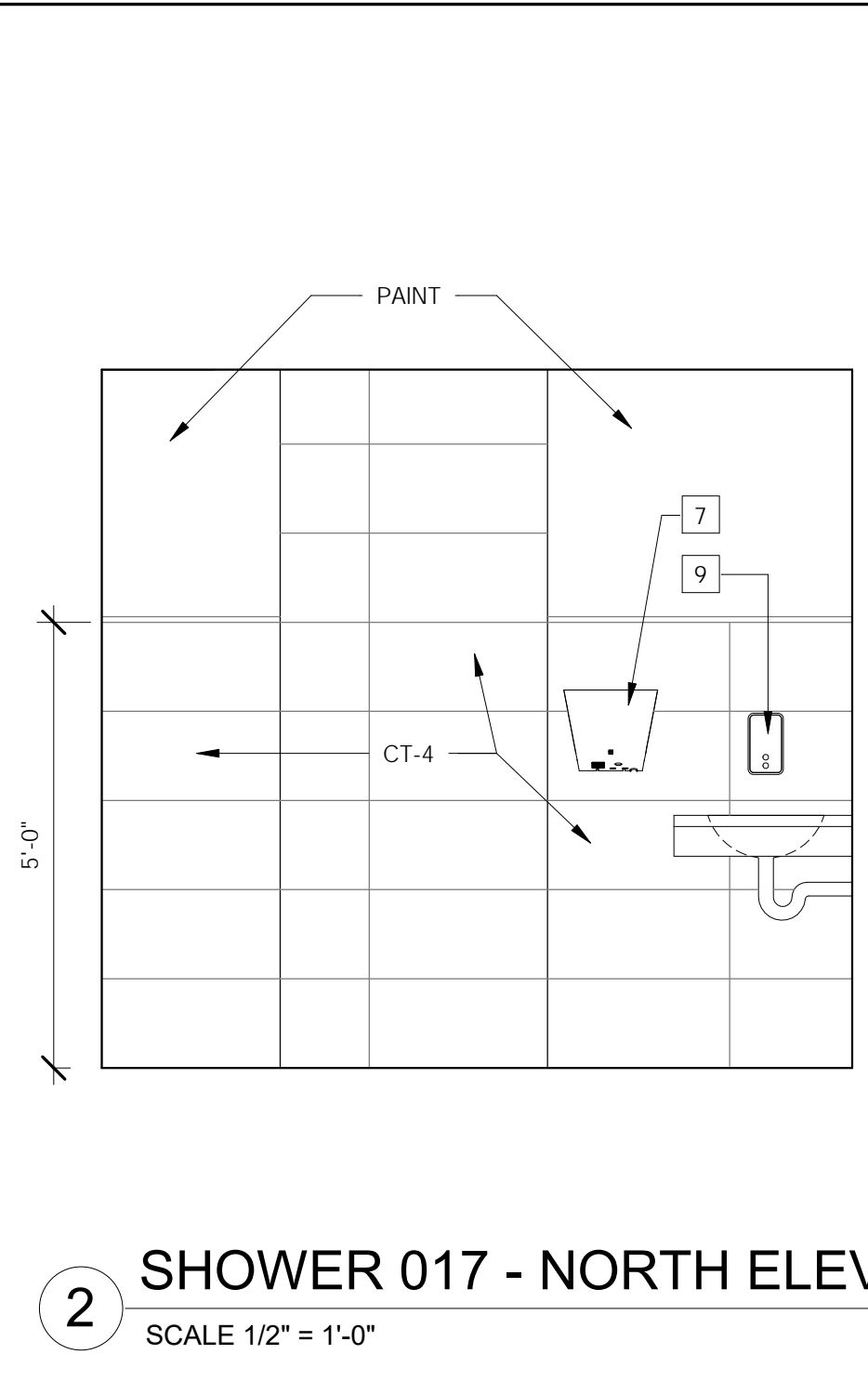
NOT FOR CONSTRUCTION



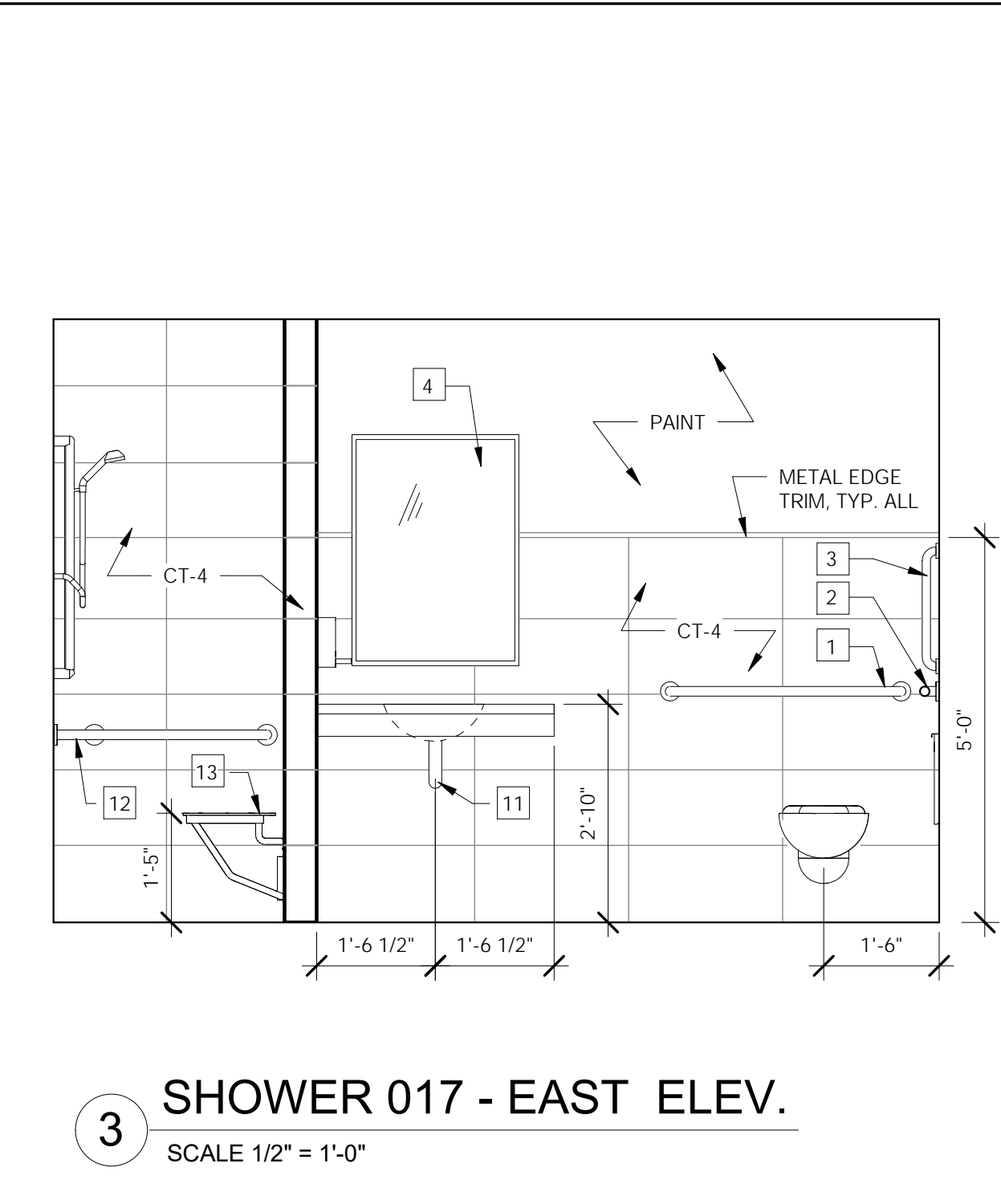
DANE COUNTY EMERGENCY MANAGEMENT REMODEL
 5415 KING JAMES WAY
 FITCHBURG, WISCONSIN



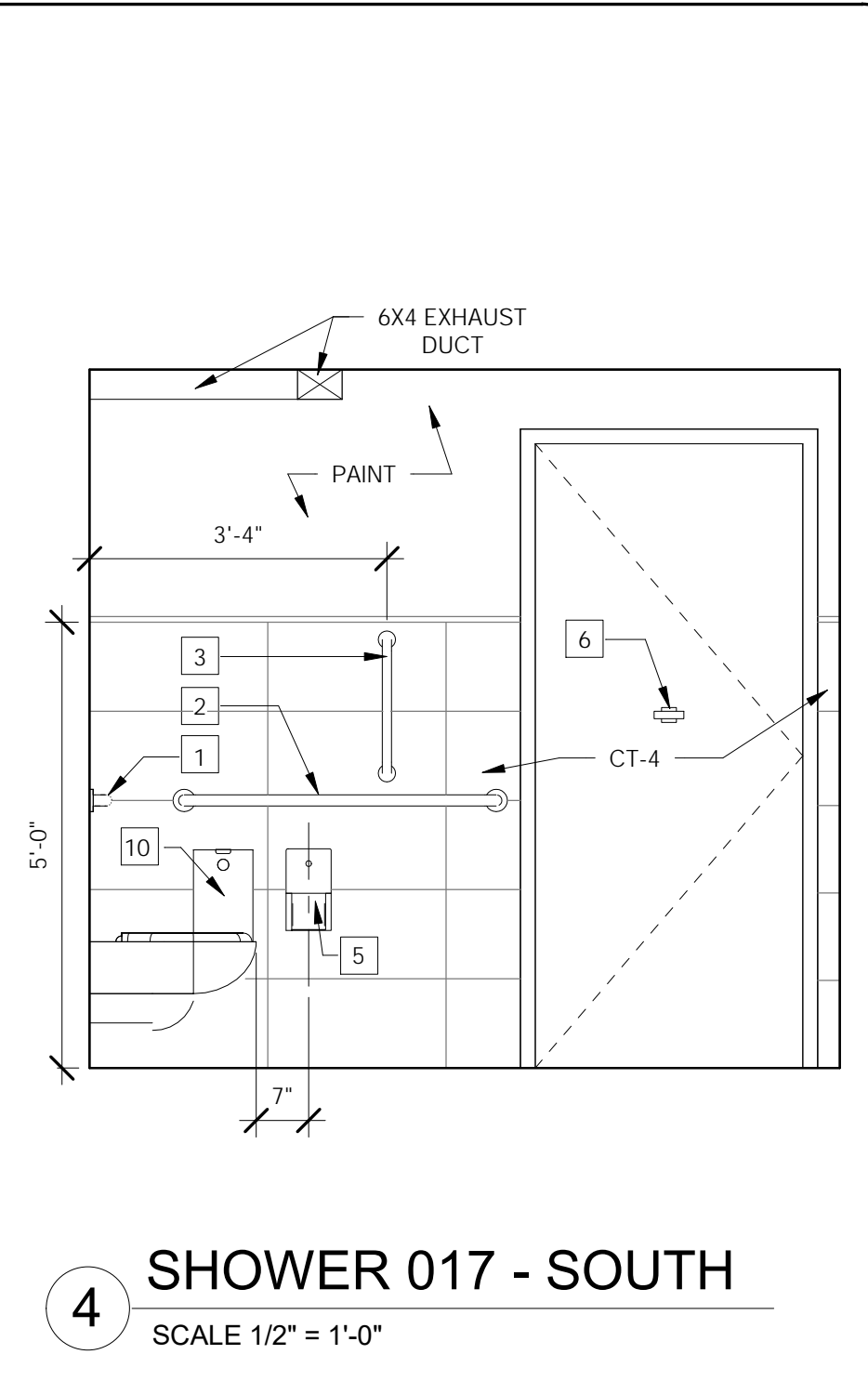
1 ENLARGED E.O.C. TOILET RMS. PLAN
 SCALE 1/2" = 1'-0"



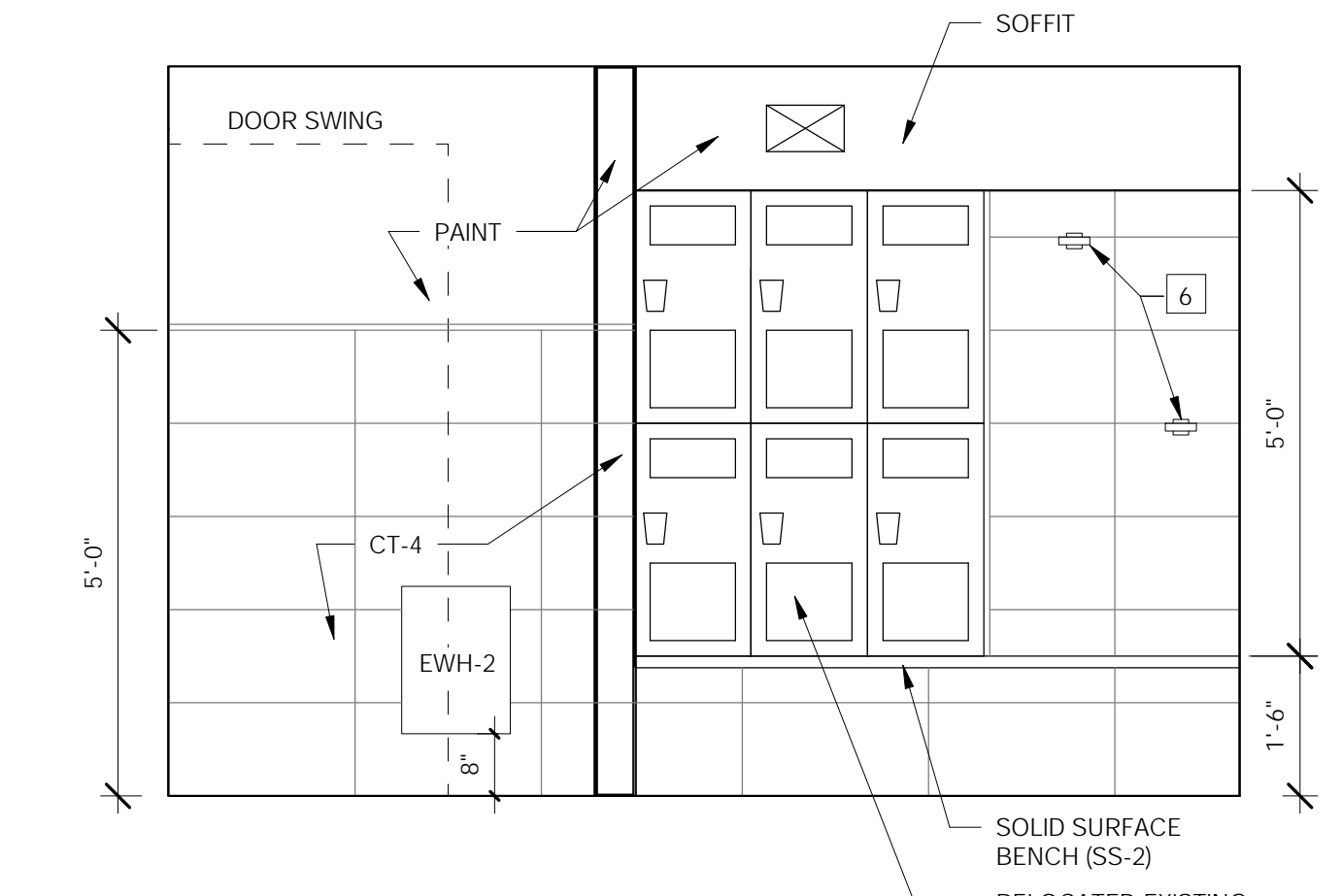
2 SHOWER 017 - NORTH ELEV.
 SCALE 1/2" = 1'-0"



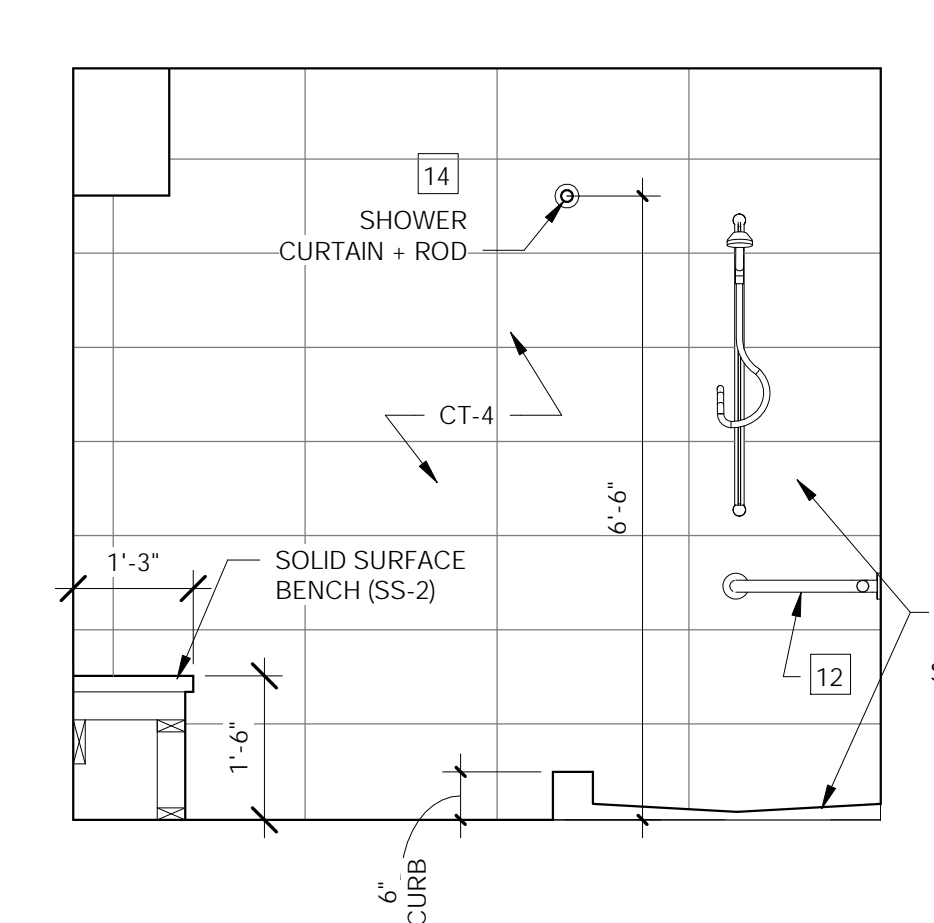
3 SHOWER 017 - EAST ELEV.
 SCALE 1/2" = 1'-0"



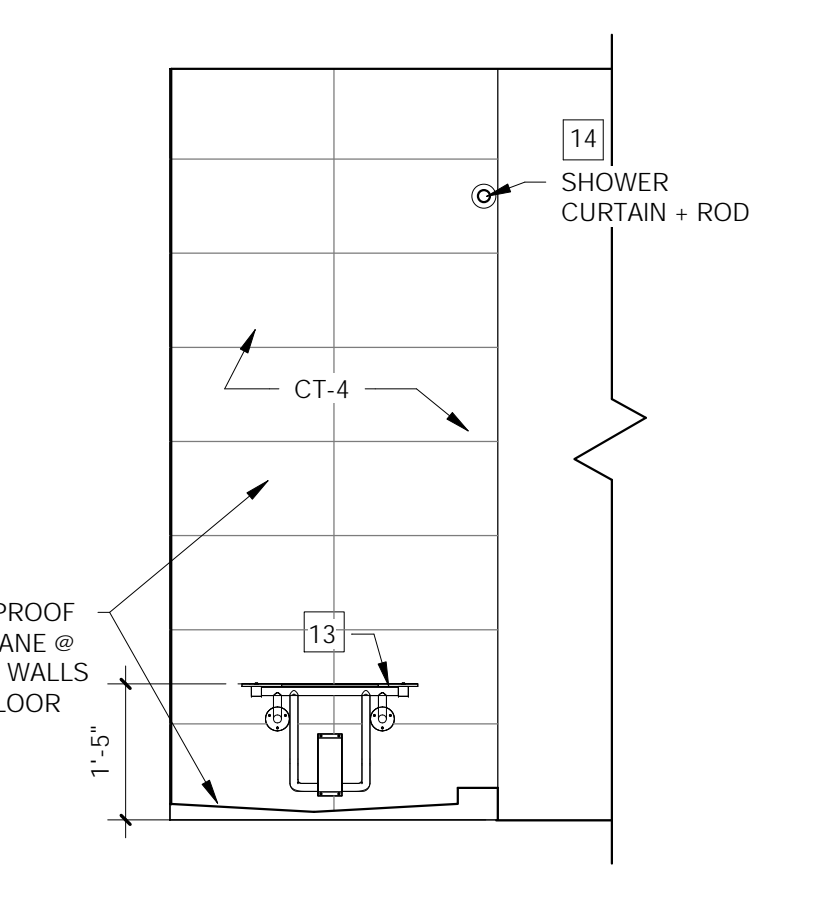
4 SHOWER 017 - SOUTH
 SCALE 1/2" = 1'-0"



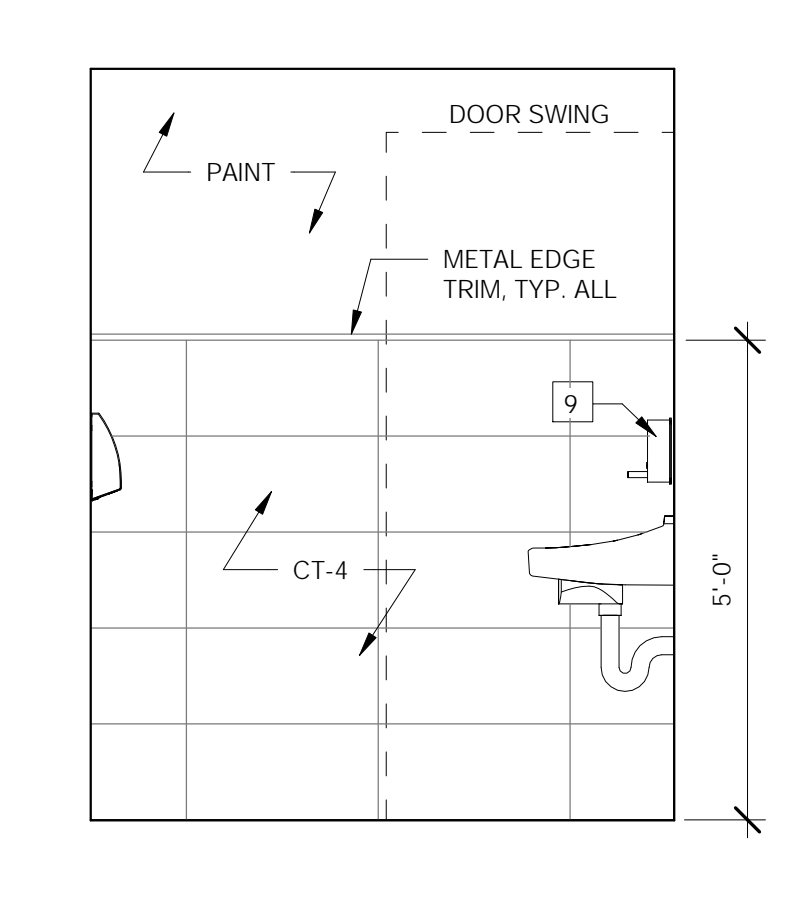
5 SHOWER 017 - WEST 2
 SCALE 1/2" = 1'-0"



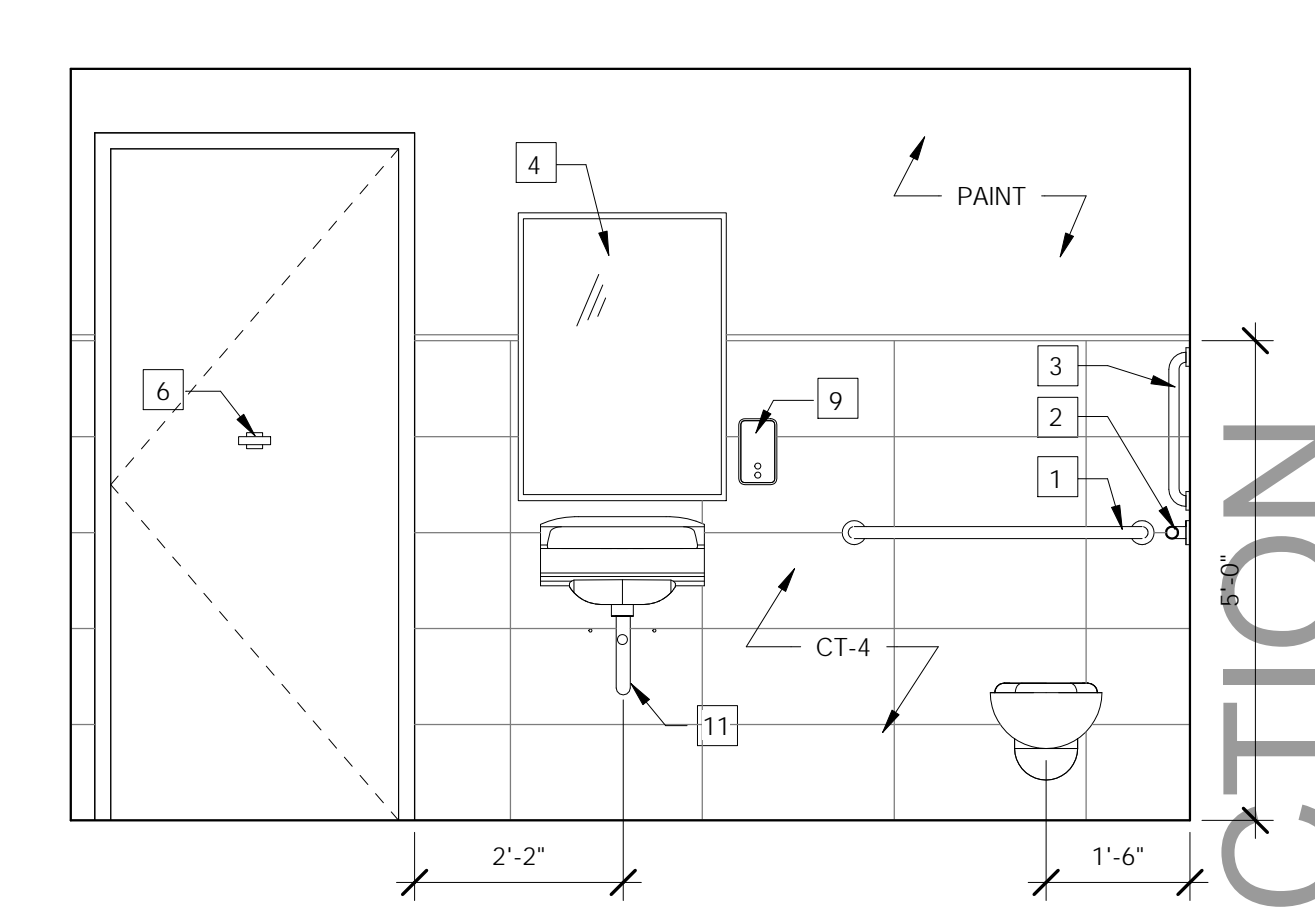
6 SHOWER 017 - NORTH 2
 SCALE 1/2" = 1'-0"



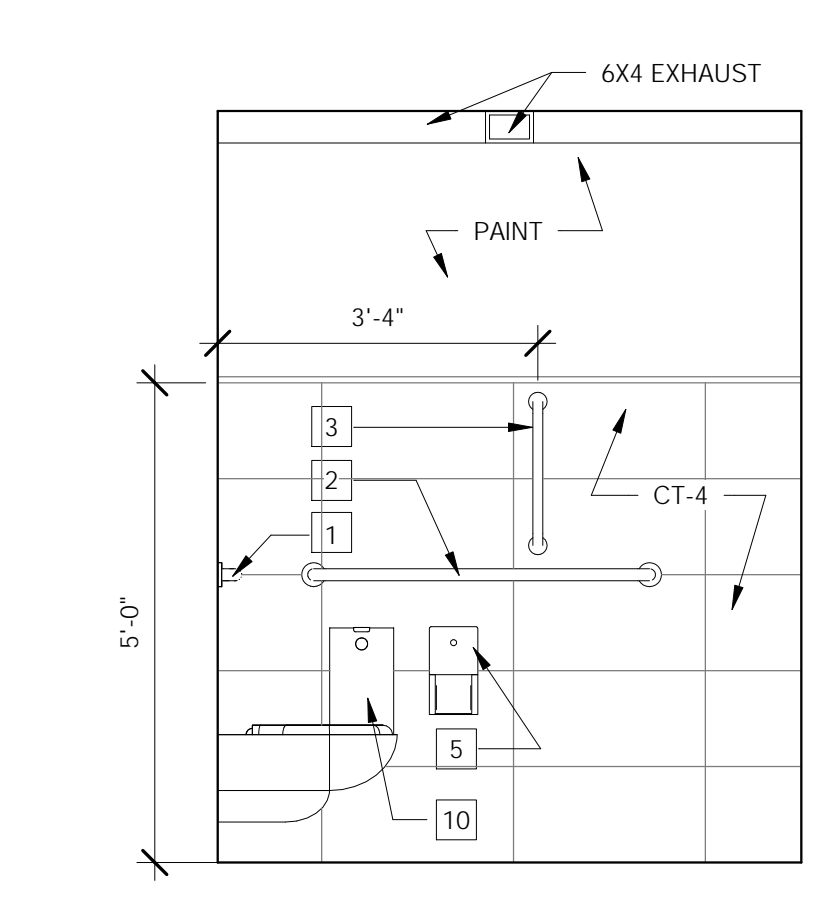
7 SHOWER 017 - SOUTH 2
 SCALE 1/2" = 1'-0"



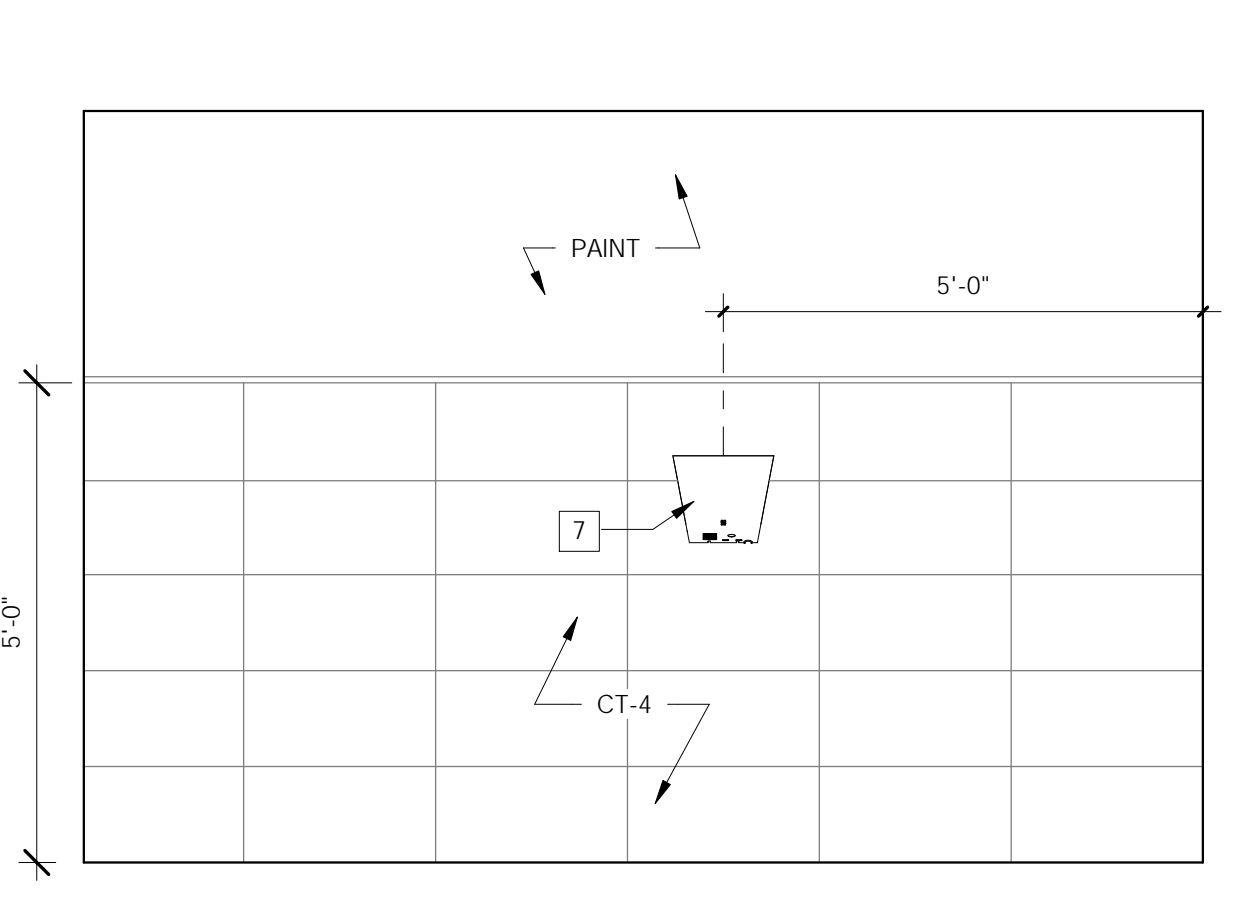
8 TOILET 018 - NORTH 2
 SCALE 1/2" = 1'-0"



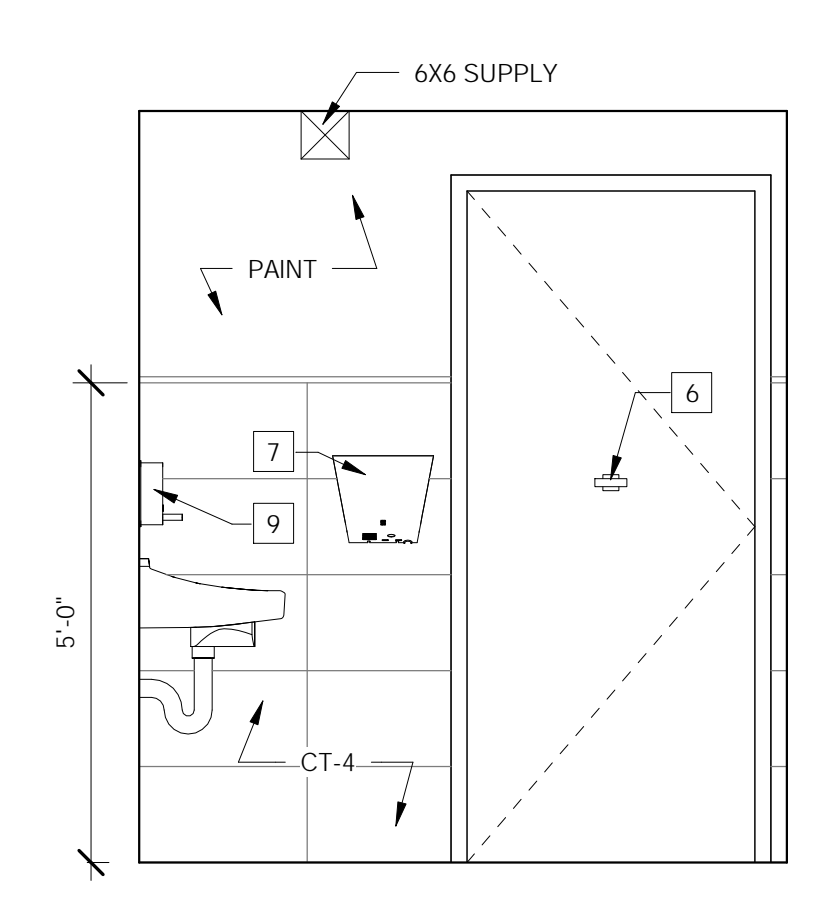
9 TOILET 018 - EAST ELEVATION
 SCALE 1/2" = 1'-0"



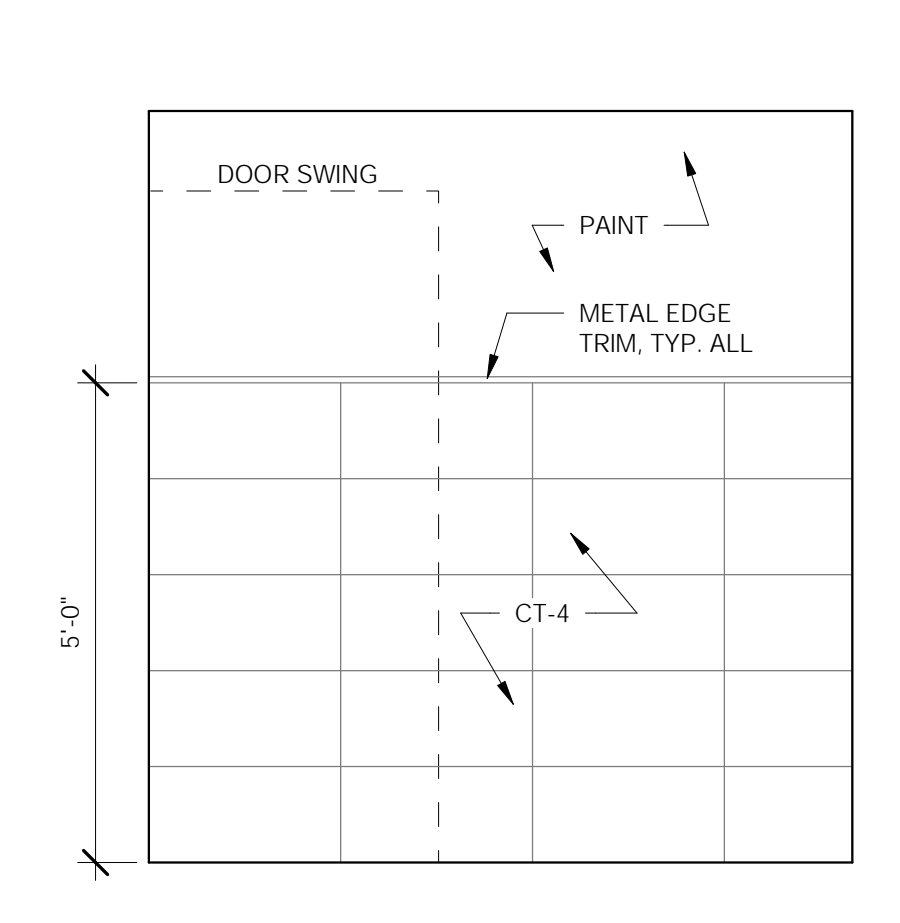
10 TOILET 018 - SOUTH ELEV.
 SCALE 1/2" = 1'-0"



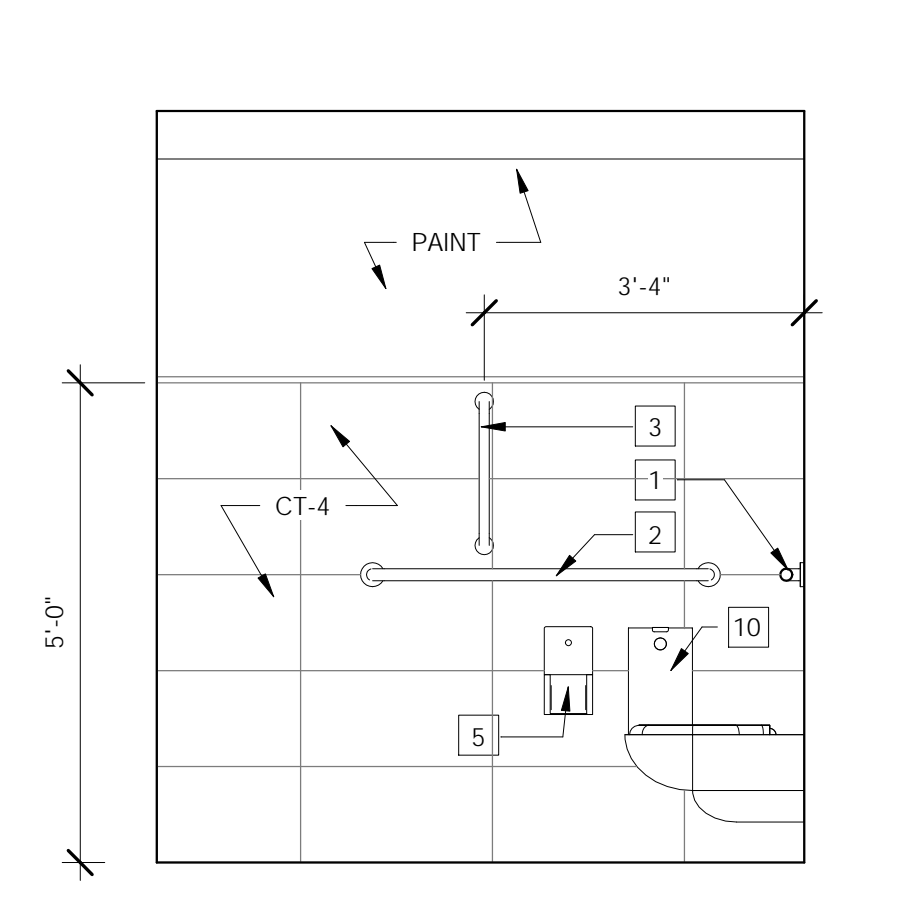
11 TOILET 018 - WEST ELEVATION
 SCALE 1/2" = 1'-0"



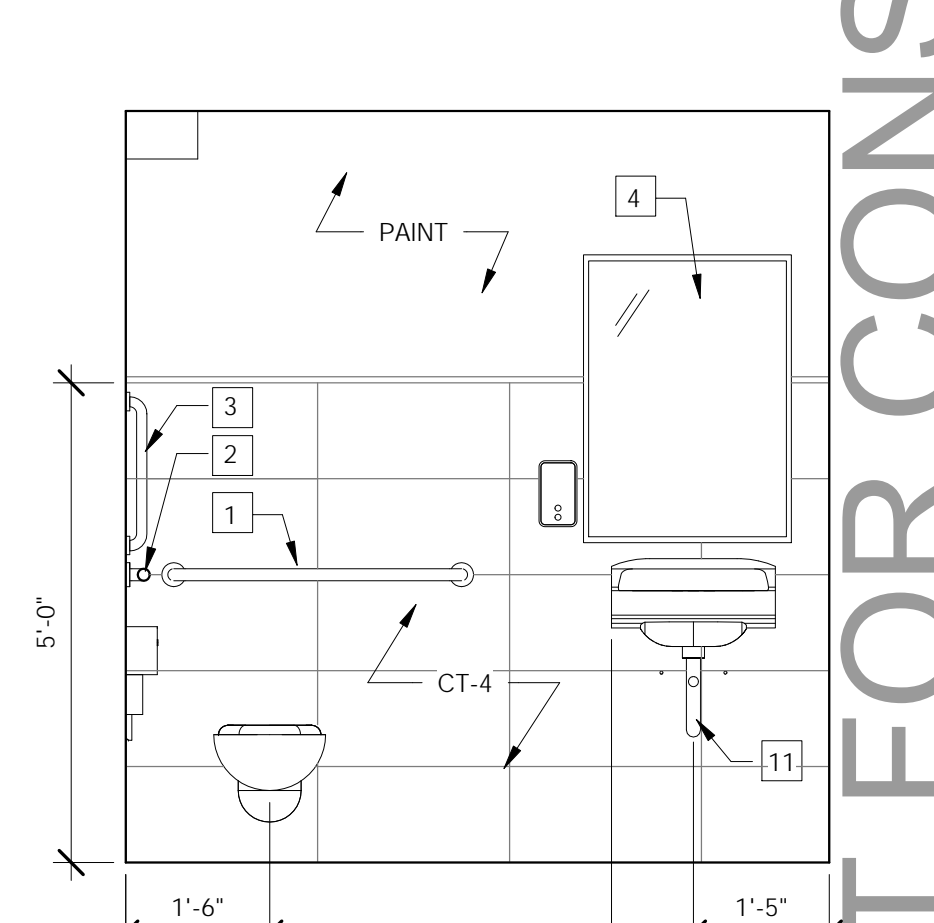
12 TOILET 019 - NORTH ELEV.
 SCALE 1/2" = 1'-0"



13 TOILET 019 - EAST ELEV.
 SCALE 1/2" = 1'-0"



14 TOILET 019 - SOUTH ELEV.
 SCALE 1/2" = 1'-0"



15 TOILET 019 - WEST ELEV.
 SCALE 1/2" = 1'-0"

NOT FOR CONSTRUCTION

CLIENT APPROVAL

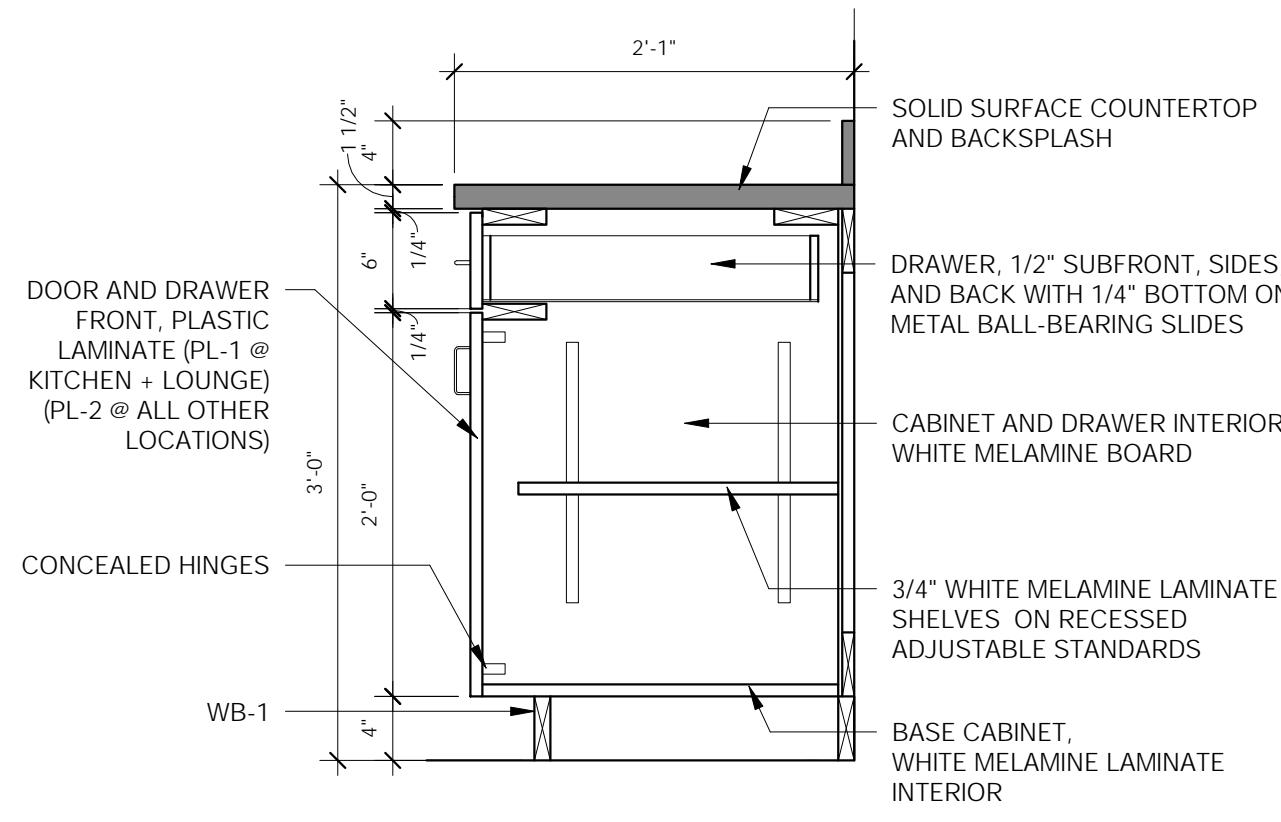
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 APPROVED BY / DATE:

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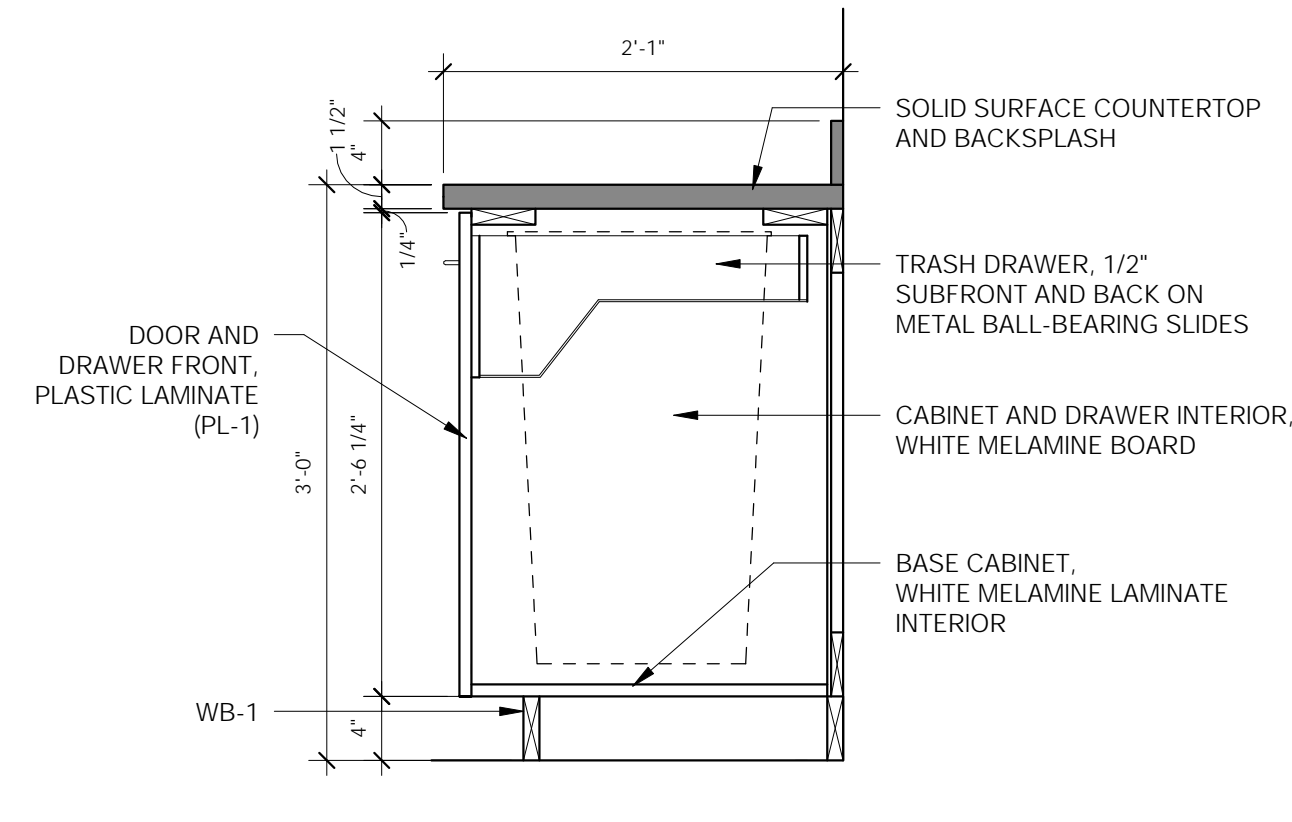
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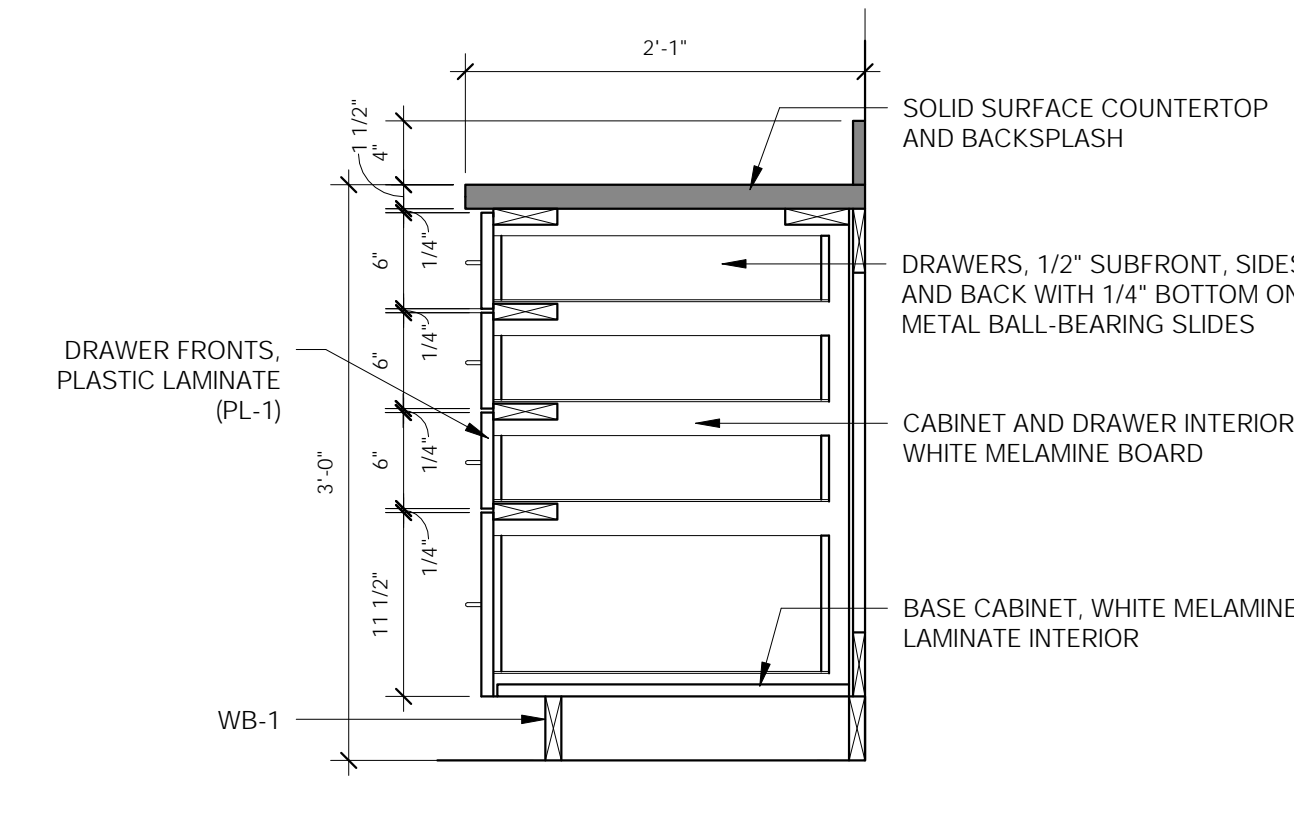
ENLARGED FLOOR PLAN + INTERIOR ELEVATIONS
A 4.5



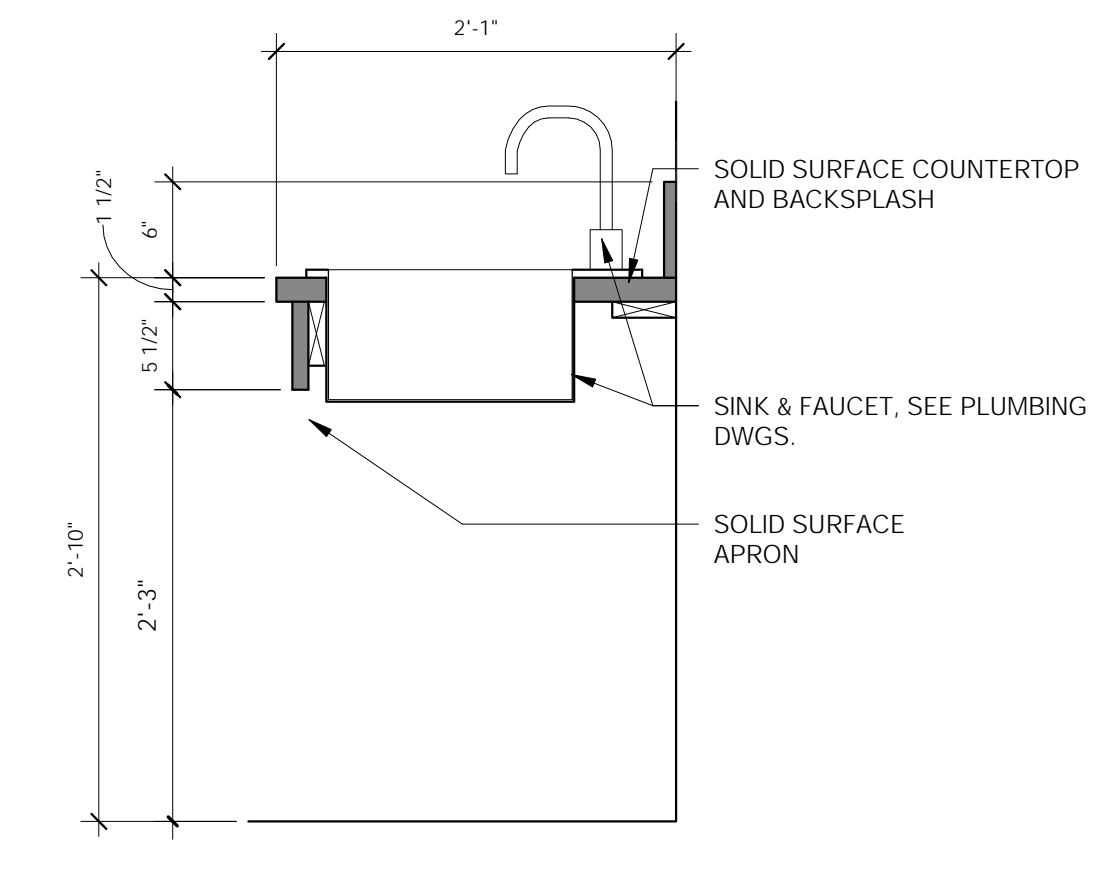
1 TYPICAL BASE CABINET MILLWORK DETAIL
SCALE 1" = 1'-0"



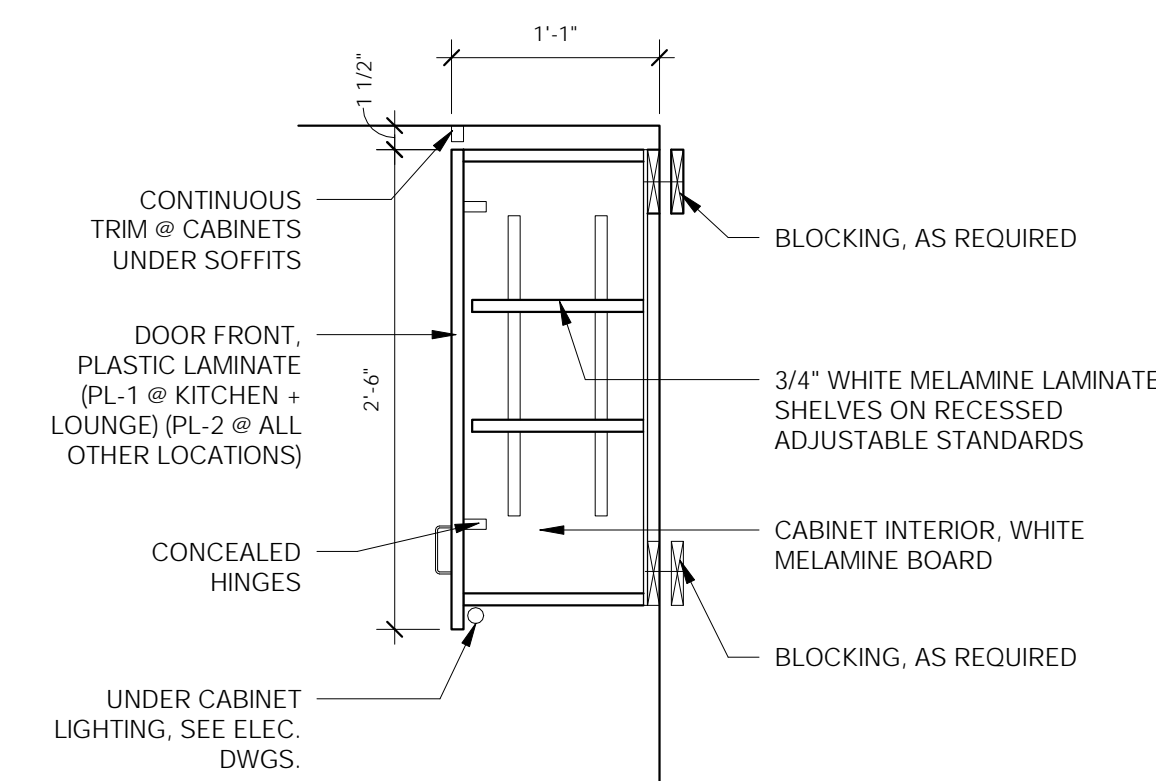
2 BASE TRASH CABINET MILLWORK DETAIL
SCALE 1" = 1'-0"



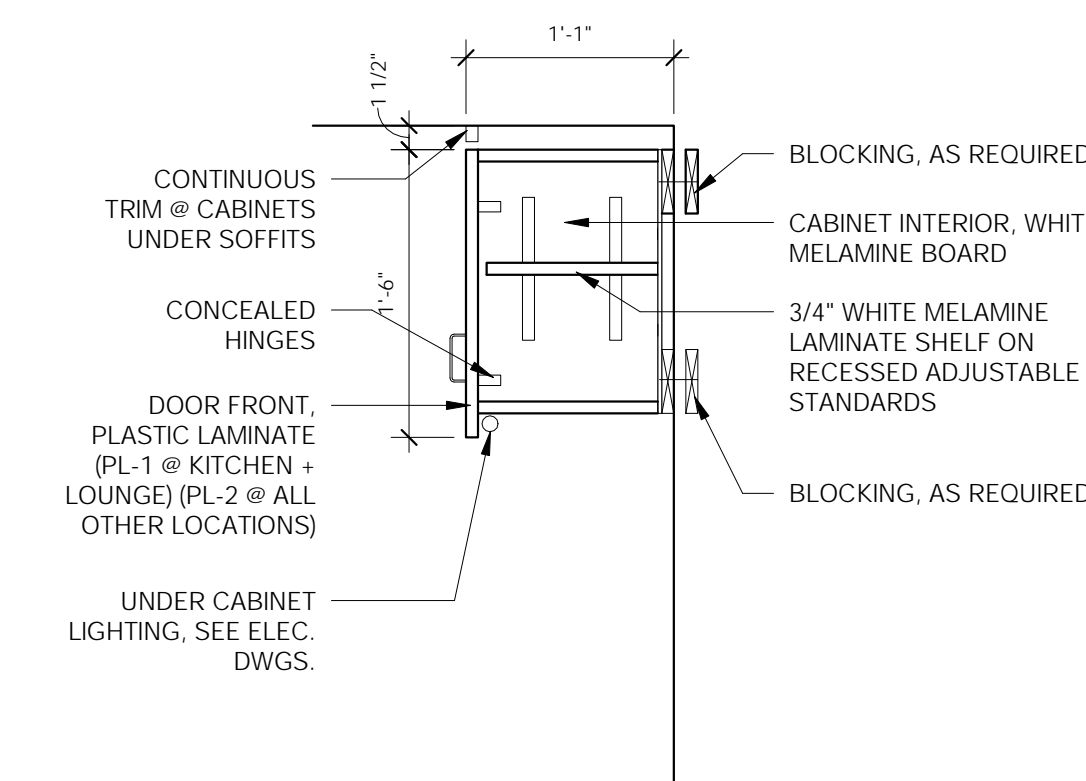
3 DRAWER BASE CABINET MILLWORK DETAIL
SCALE 1" = 1'-0"



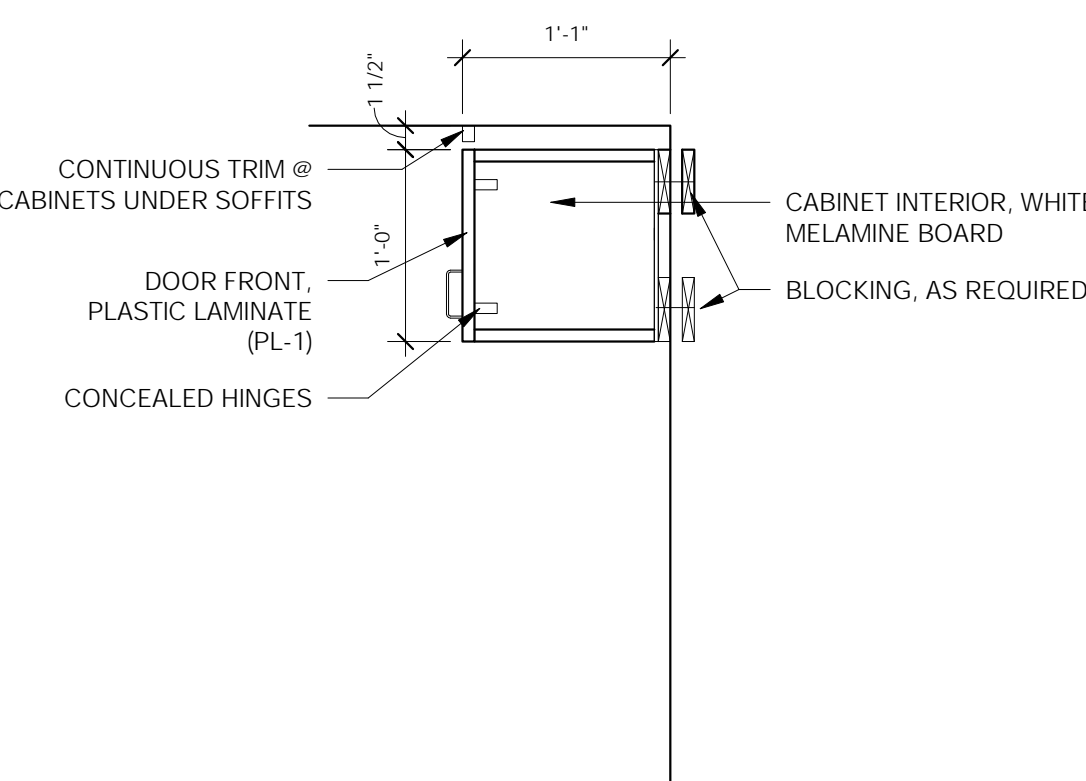
4 SINK MILLWORK DETAIL
SCALE 1" = 1'-0"



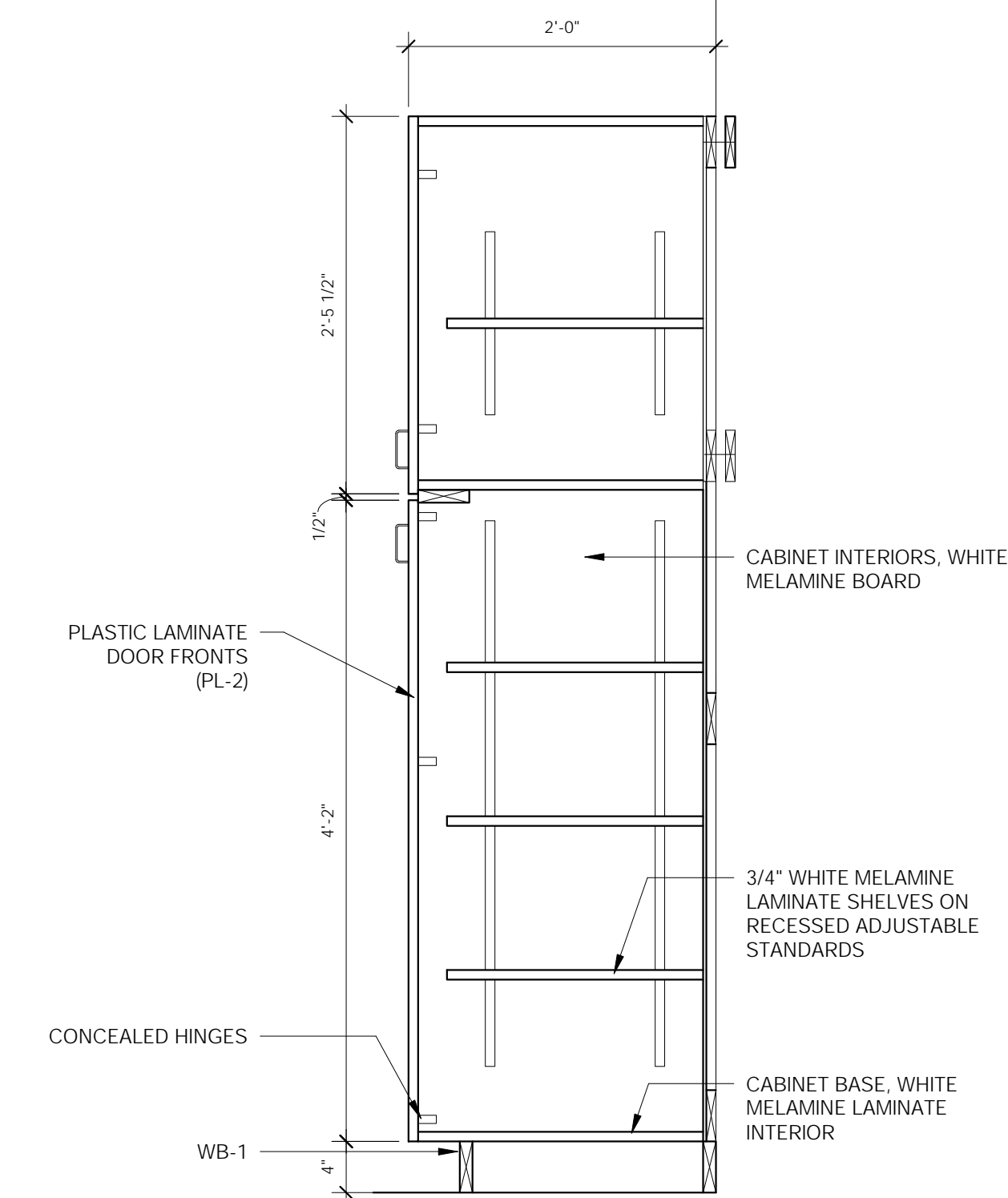
5 UPPER CABINET MILLWORK DETAIL 1
SCALE 1" = 1'-0"



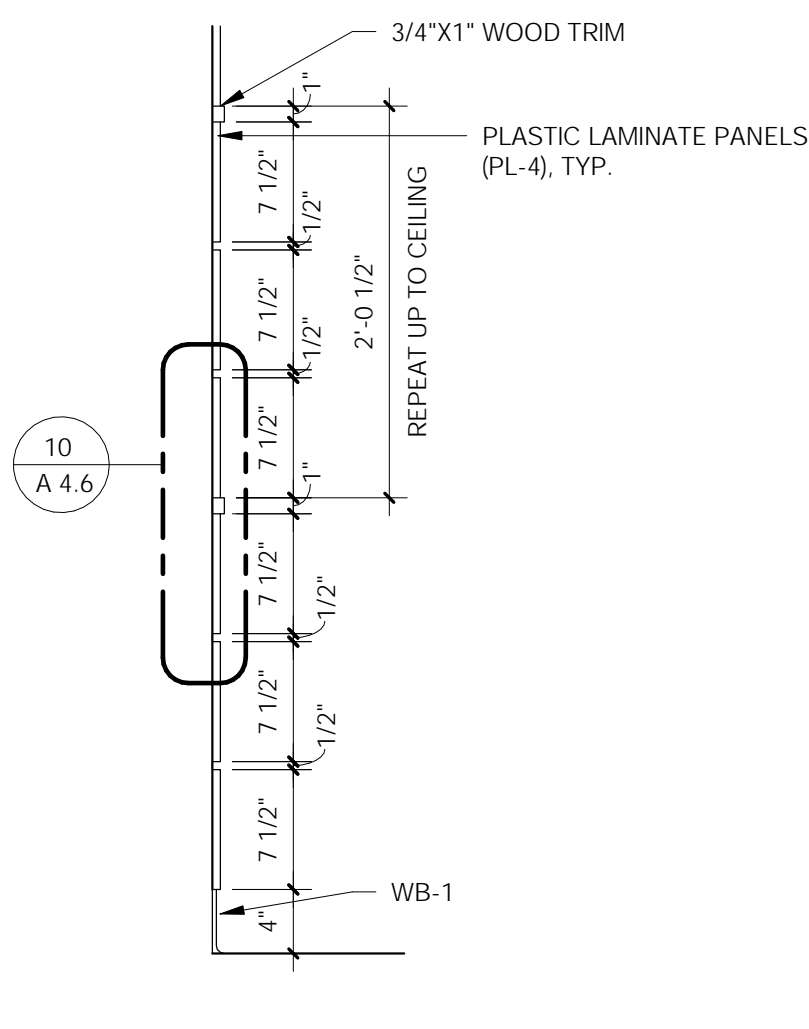
6 UPPER CABINET MILLWORK DETAIL 2
SCALE 1" = 1'-0"



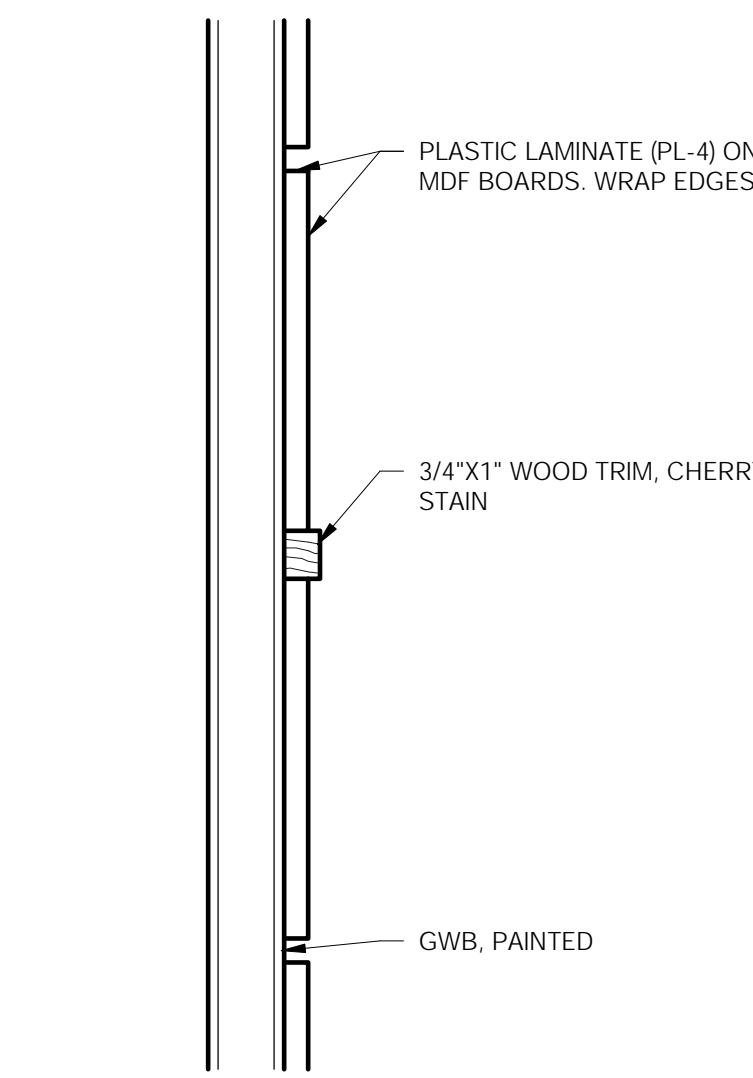
7 UPPER CABINET MILLWORK DETAIL 3
SCALE 1" = 1'-0"



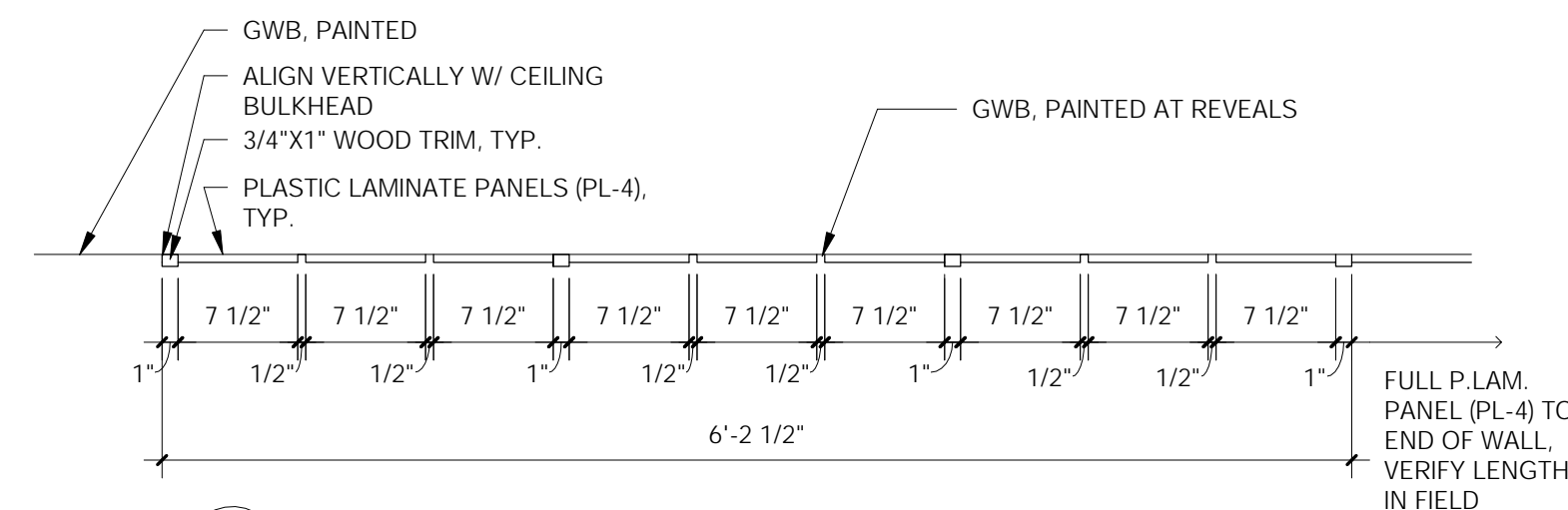
8 TALL CABINET MILLWORK DETAIL
SCALE 1" = 1'-0"



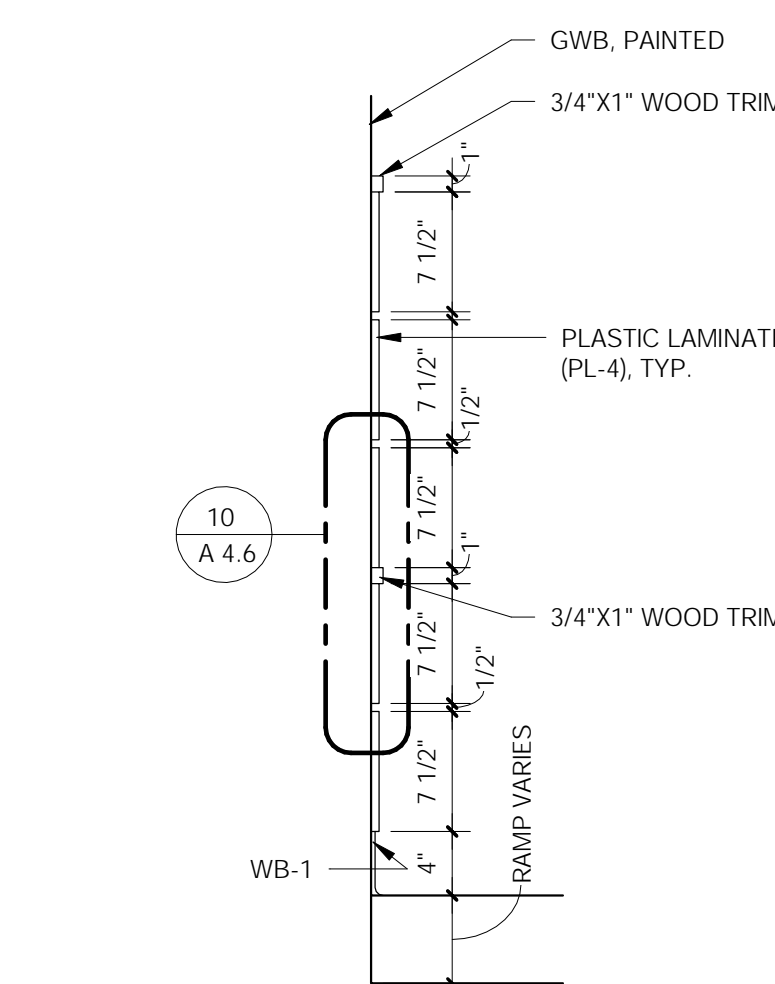
9 P.LAM PANEL SECTION
SCALE 1" = 1'-0"



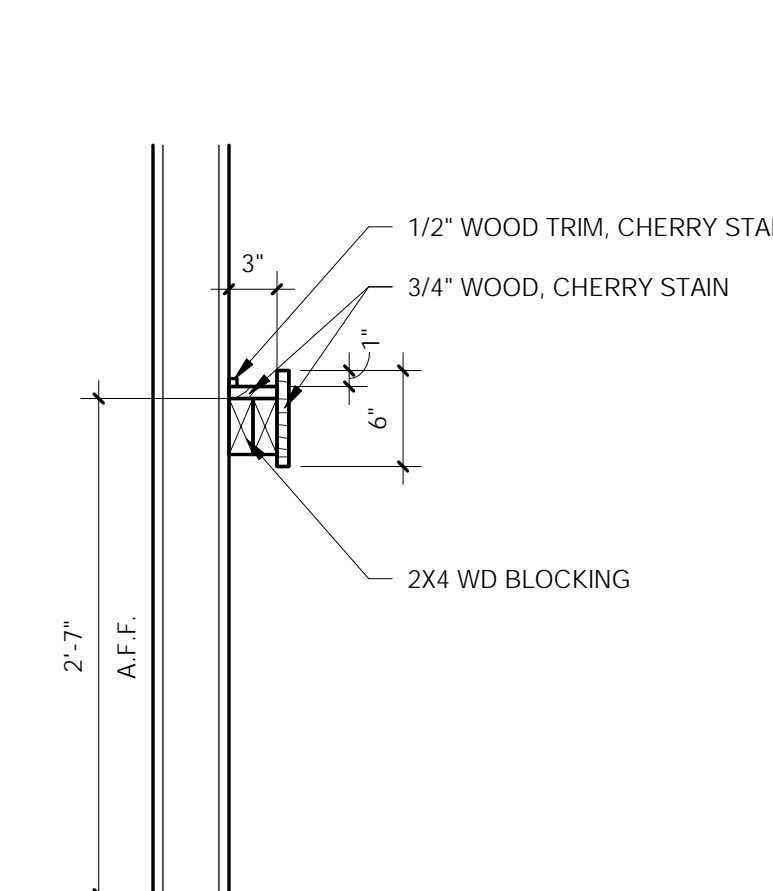
10 P.LAM PANEL DETAIL
SCALE 3" = 1'-0"



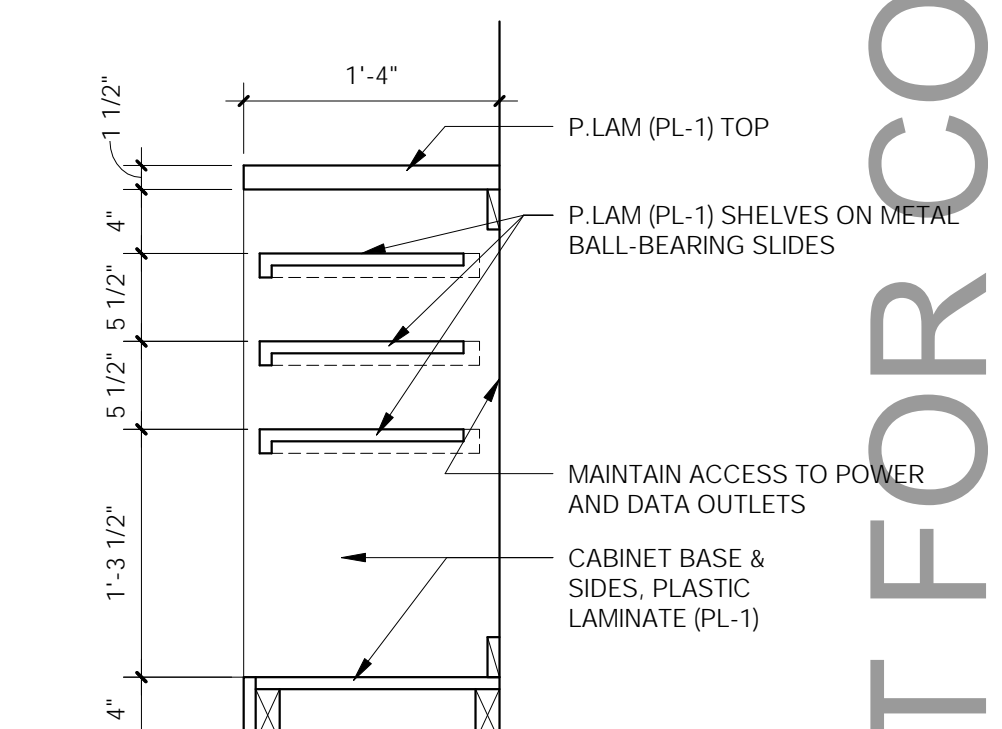
11A P.LAM PANEL PLAN DETAIL
SCALE 1" = 1'-0"



11 P.LAM PANEL SECTION
SCALE 1" = 1'-0"



12 PENCIL TRAY DETAIL
SCALE 1" = 1'-0"



13 COMPUTER CABINET MILLWORK DETAIL
SCALE 1" = 1'-0"

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DANE COUNTY EMERGENCY MANAGEMENT REMODEL
5415 KING JAMES WAY
FITCHBURG, WISCONSIN

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ISSUE RECORD

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PROJECT ARCHITECT
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MILLWORK DETAILS
A 4.6



DANE COUNTY EMERGENCY MANAGEMENT REMODEL
 5415 KING JAMES WAY
 FITCHBURG, WISCONSIN

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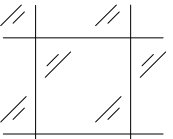
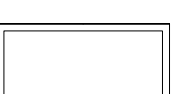
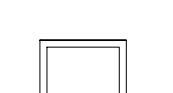

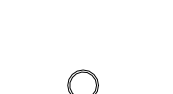


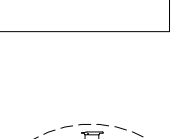
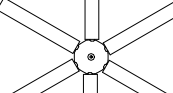
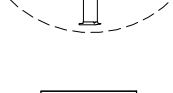
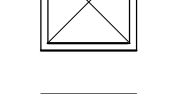
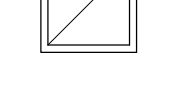
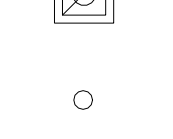
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PROJECT ARCHITECT
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 2020-001

BASEMENT REFLECTED CEILING PLAN

A 5.1

CEILING LEGEND

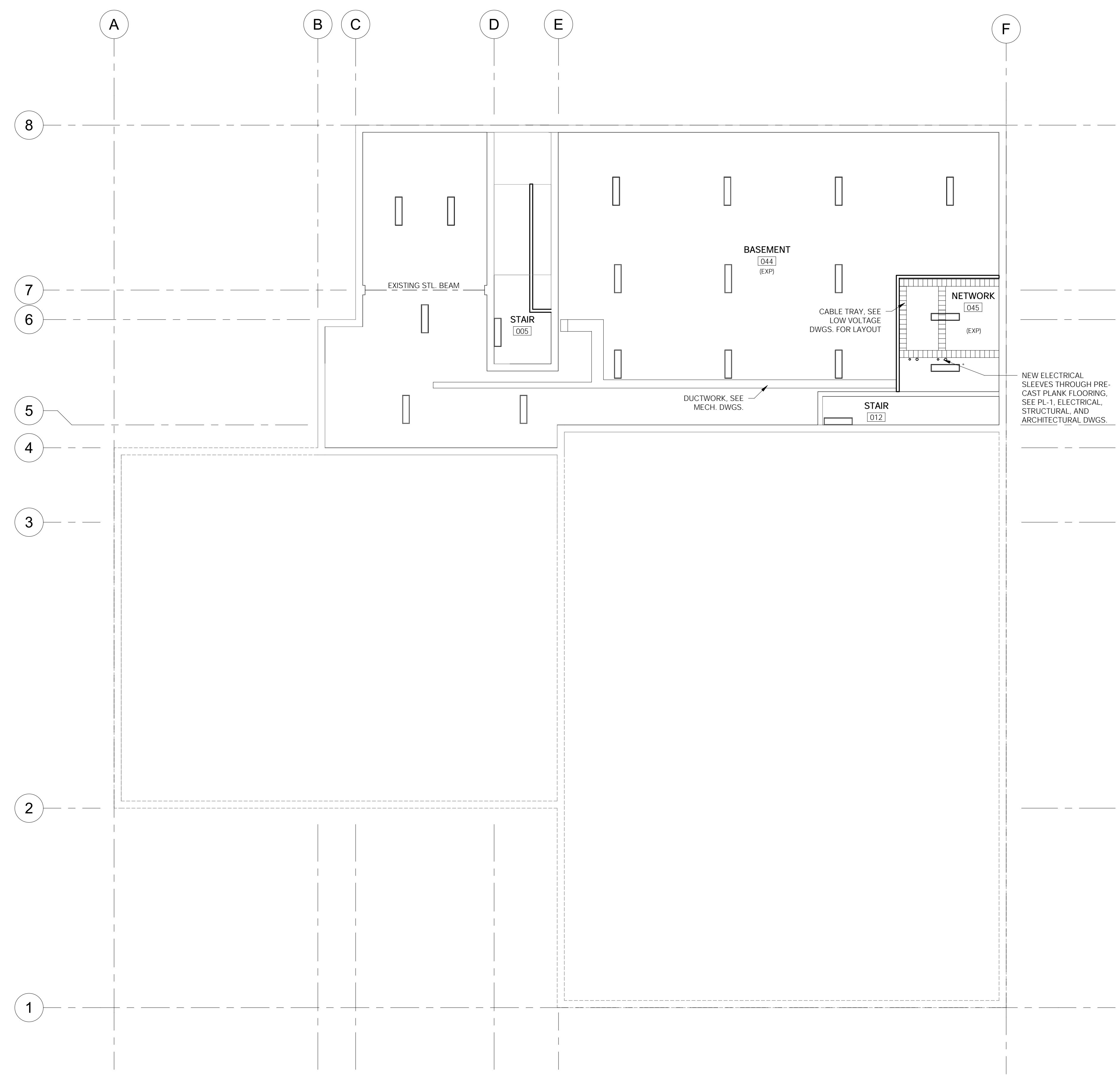
-  GYPSUM BOARD CEILING
-  2X2 LAY-IN ACOUSTICAL PANEL CEILING TILE ON SUSPENDED METAL GRID
-  2X2 LAY-IN TRANSLUCENT PANEL CEILING TILE ON SUSPENDED METAL GRID, ARMSTRONG "INFUSIONS"
-  2X4 LAY-IN LIGHT FIXTURE, SEE ELECTRICAL DWGS.
-  2X2 LAY-IN LIGHT FIXTURE, SEE ELECTRICAL DWGS.
-  4' PENDANT LIGHT, SEE ELECTRICAL DWGS.
-  6' RECESSED CAN LIGHT, SEE ELECTRICAL DWGS.
-  1X4 SURFACE MOUNTED LIGHT FIXTURE, SEE ELECTRICAL DWGS.
-  WALL MOUNTED LIGHT FIXTURE, SEE ELECTRICAL DWGS.
-  PENDANT MOUNTED CEILING FAN W/ WIRE GUARD, SEE ELECTRICAL DWGS.
-  2X2 SUPPLY DIFFUSER, SEE MECHANICAL DWGS.
-  2X2 RETURN GRILL, SEE MECHANICAL DWGS.
-  EXHAUST FAN, SEE MECHANICAL DWGS.
-  CONCEALED PENDANT SPRINKLER HEAD
-  2'X4' ACOUSTICAL CEILING PANEL, MOUNTED TO DECK, ARMSTRONG TECTUM FINALE

GENERAL NOTES

1. REFERENCE MECHANICAL DRAWINGS FOR LOCATIONS OF MECHANICAL SUPPLY AND RETURN GRILLES.
2. REFERENCE FIRE PROTECTION DRAWINGS FOR LOCATION OF SPRINKLER HEADS. LOCATE HEADS IN CENTER OF CEILING TILE WHERE THERE IS LAY-IN CEILING.
3. CONTRACTOR TO FIELD VERIFY AND COORDINATE OBSTRUCTIONS BEFORE FINALIZING CEILING HEIGHTS. ANY CHANGES FROM DOCUMENTS TO BE PRESENTED TO ARCHITECT FOR REVIEW.
4. COORDINATE AND FIELD VERIFY ALL LIGHT FIXTURES, SPRINKLER HEADS, AND DUCTWORK LOCATIONS PRIOR TO INSTALLATION. NOTIFY ARCHITECT IF ANY DISCREPANCIES OCCUR IMMEDIATELY.
5. COORDINATE AND REVIEW ALL EXPOSED PIPING LAYOUTS IN ANY OPEN/EXPOSED CEILING W/ ARCHITECT PRIOR TO INSTALLATION.

PRECAST CONCRETE PLANK NOTES

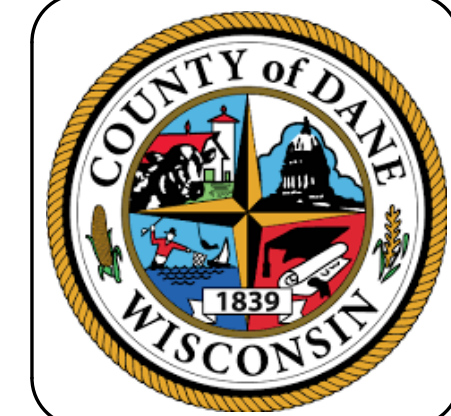
SEE SHEET PL-1 FOR EXISTING PRECAST CONCRETE PLANK REQUIREMENTS



1 BASEMENT REFLECTED CEILING PLAN
 SCALE 1/8" = 1'-0" 

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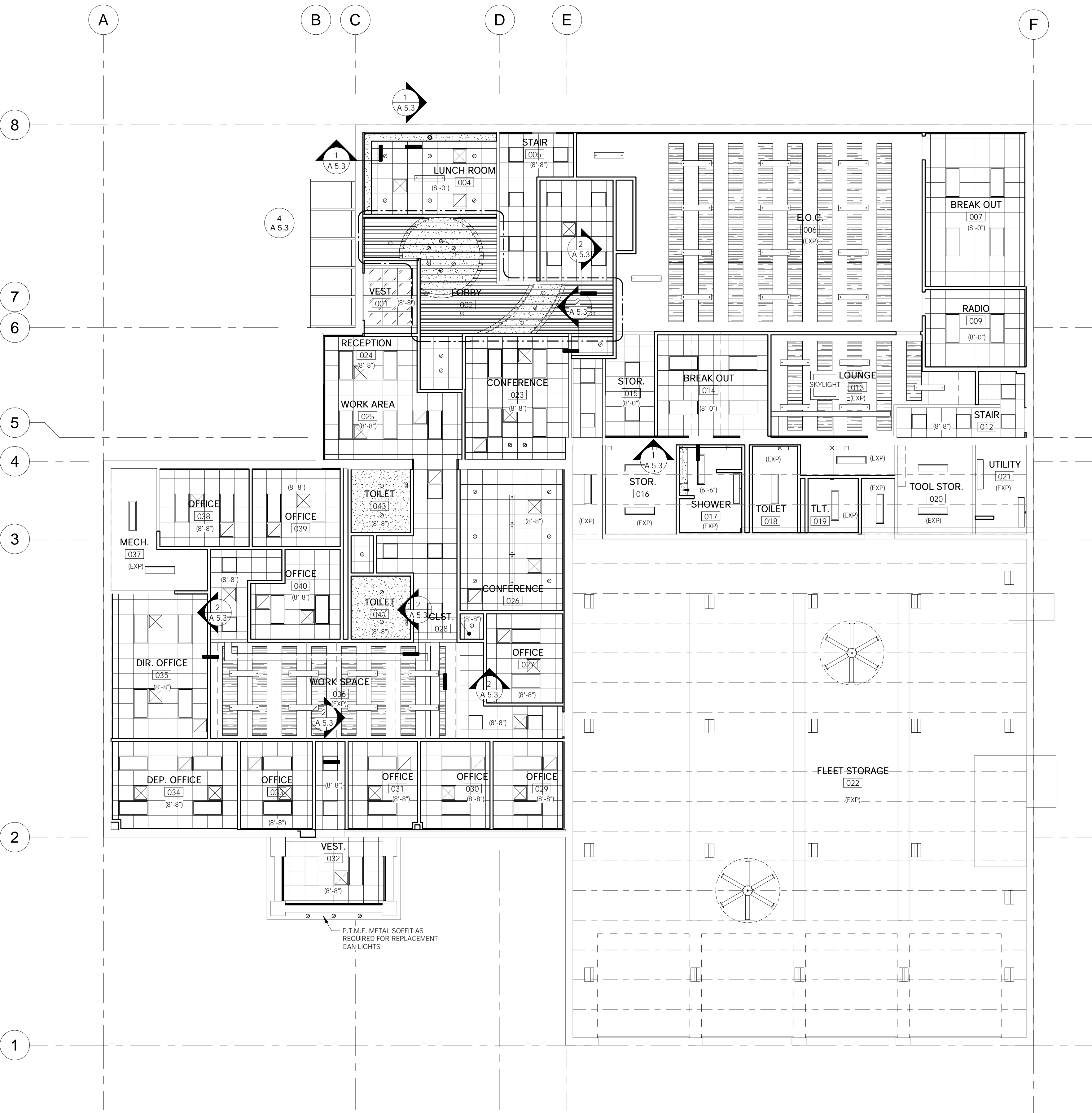
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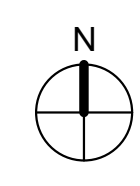
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DATE
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PROJECT NUMBER
 2020-001

FIRST FLOOR REFLECTED CEILING PLAN

A 5.2



1 FIRST FLOOR REFLECTED CEIL. PLAN
 SCALE 1/8" = 1'-0"

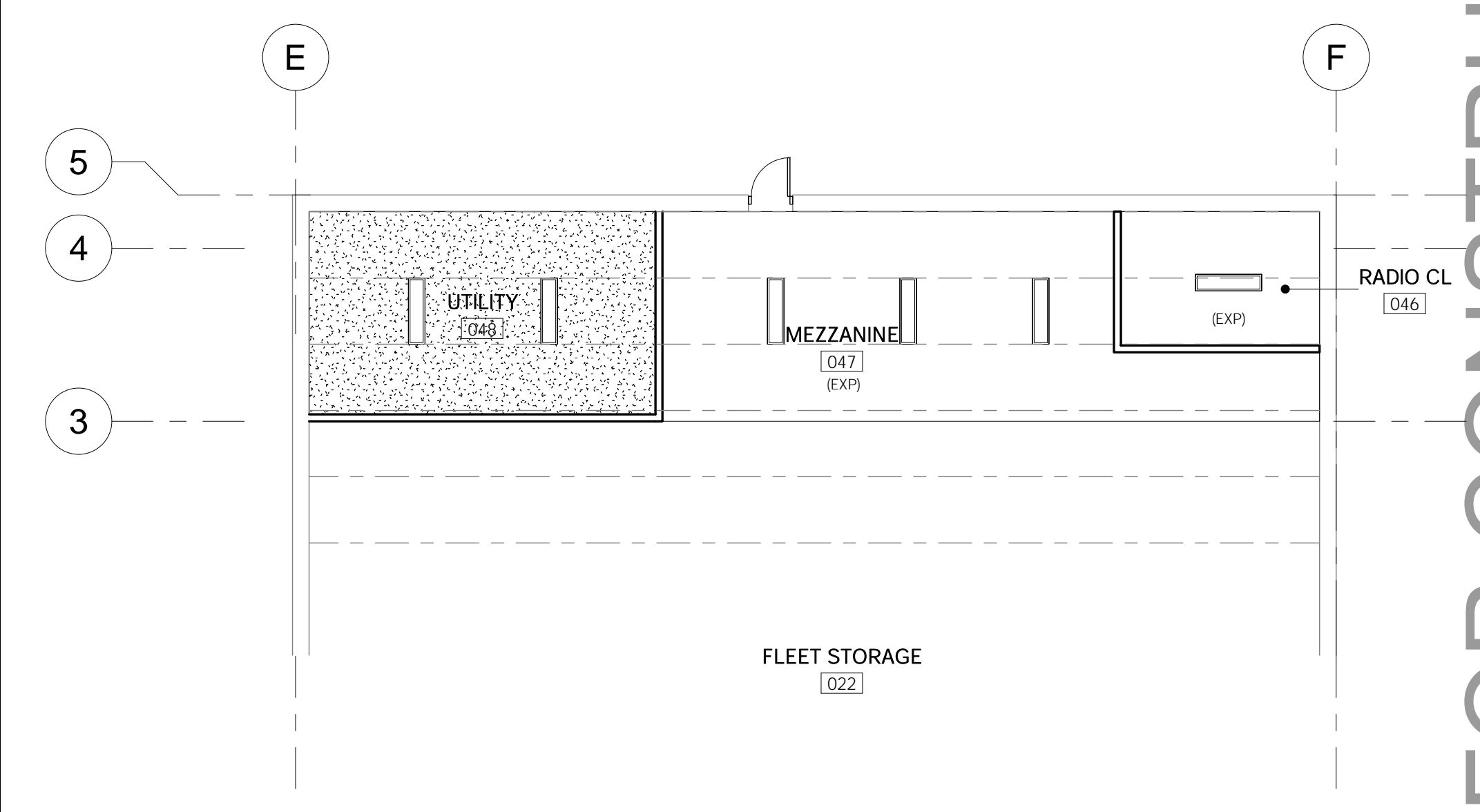


CEILING LEGEND

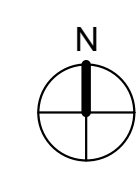
- GYPSUM BOARD CEILING
- 2X2 LAY-IN ACOUSTICAL PANEL CEILING TILE ON SUSPENDED METAL GRID
- 2X2 LAY-IN TRANSLUCENT PANEL CEILING TILE ON SUSPENDED METAL GRID, ARMSTRONG "INFUSIONS"
- 2X4 LAY-IN LIGHT FIXTURE, SEE ELECTRICAL DWGS.
- 2X2 LAY-IN LIGHT FIXTURE, SEE ELECTRICAL DWGS.
- 4' PENDANT LIGHT, SEE ELECTRICAL DWGS.
- 6" RECESSED CAN LIGHT, SEE ELECTRICAL DWGS.
- 1X4 SURFACE MOUNTED LIGHT FIXTURE, SEE ELECTRICAL DWGS.
- WALL MOUNTED LIGHT FIXTURE, SEE ELECTRICAL DWGS.
- PENDANT MOUNTED CEILING FAN W/ WIRE GUARD, SEE ELECTRICAL DWGS.
- 2X2 SUPPLY DIFFUSER, SEE MECHANICAL DWGS.
- 2X2 RETURN GRILL, SEE MECHANICAL DWGS.
- EXHAUST FAN, SEE MECHANICAL DWGS.
- CONCEALED PENDANT SPRINKLER HEAD
- 2'X4' ACOUSTICAL CEILING PANEL, MOUNTED TO DECK, ARMSTRONG TECTUM FINALE

GENERAL NOTES

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3. CONTRACTOR TO FIELD VERIFY AND COORDINATE OBSTRUCTIONS BEFORE FINALIZING CEILING HEIGHTS. ANY CHANGES FROM DOCUMENTS TO BE PRESENTED TO ARCHITECT FOR REVIEW.
4. COORDINATE AND FIELD VERIFY ALL LIGHT FIXTURES, SPRINKLER HEADS, AND DUCTWORK LOCATIONS PRIOR TO INSTALLATION. NOTIFY ARCHITECT IF ANY DISCREPANCIES OCCUR IMMEDIATELY.
5. COORDINATE AND REVIEW ALL EXPOSED PIPING LAYOUTS IN ANY OPEN/EXPOSED CEILING W/ ARCHITECT PRIOR TO INSTALLATION.
6. PROVIDE ACCESS DOORS/PANELS WHEN REQUIRED BY OWNER IN ALL GYPSUM BOARD CEILINGS.



2 MEZZANINE REFLECTED CEILING PLAN
 SCALE 1/8" = 1'-0"



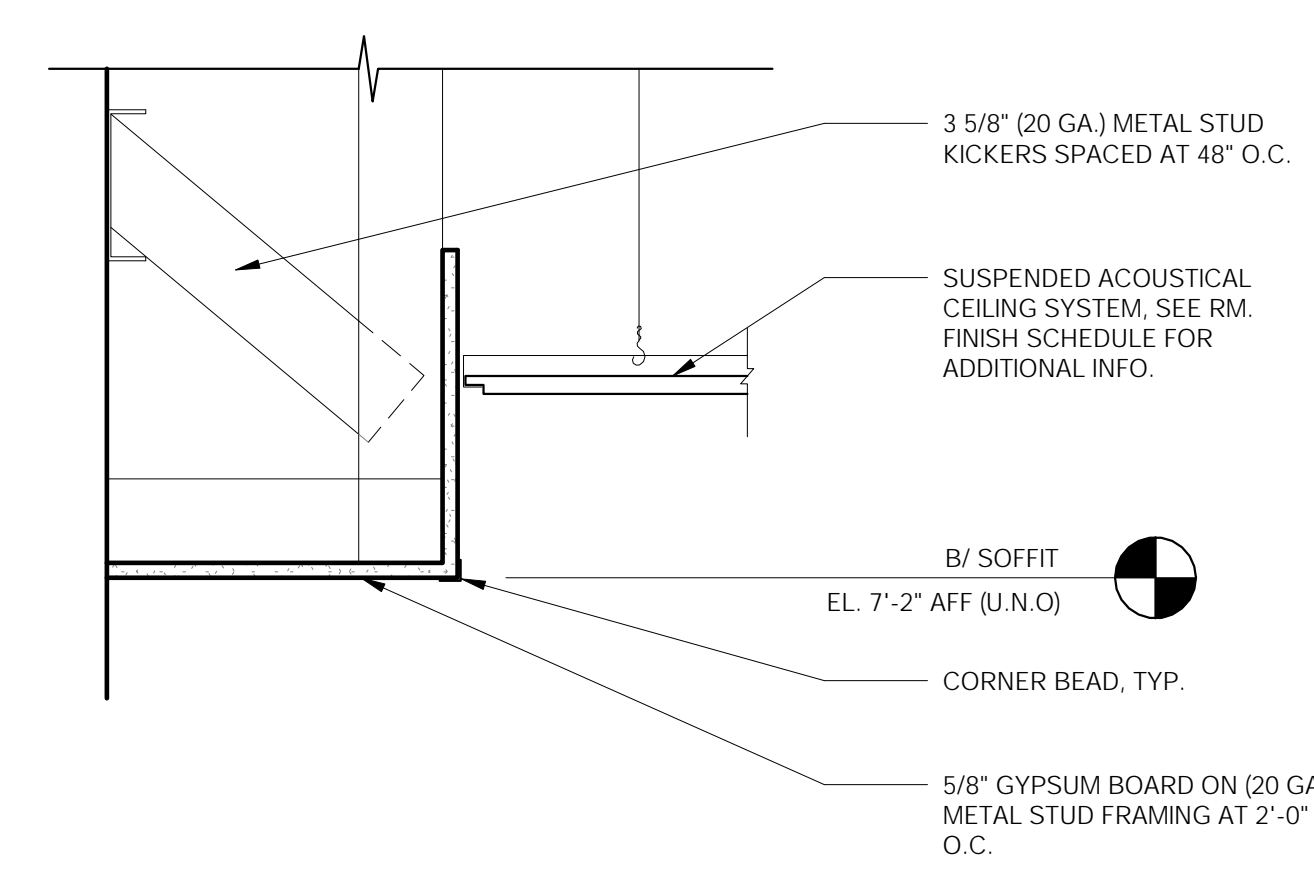
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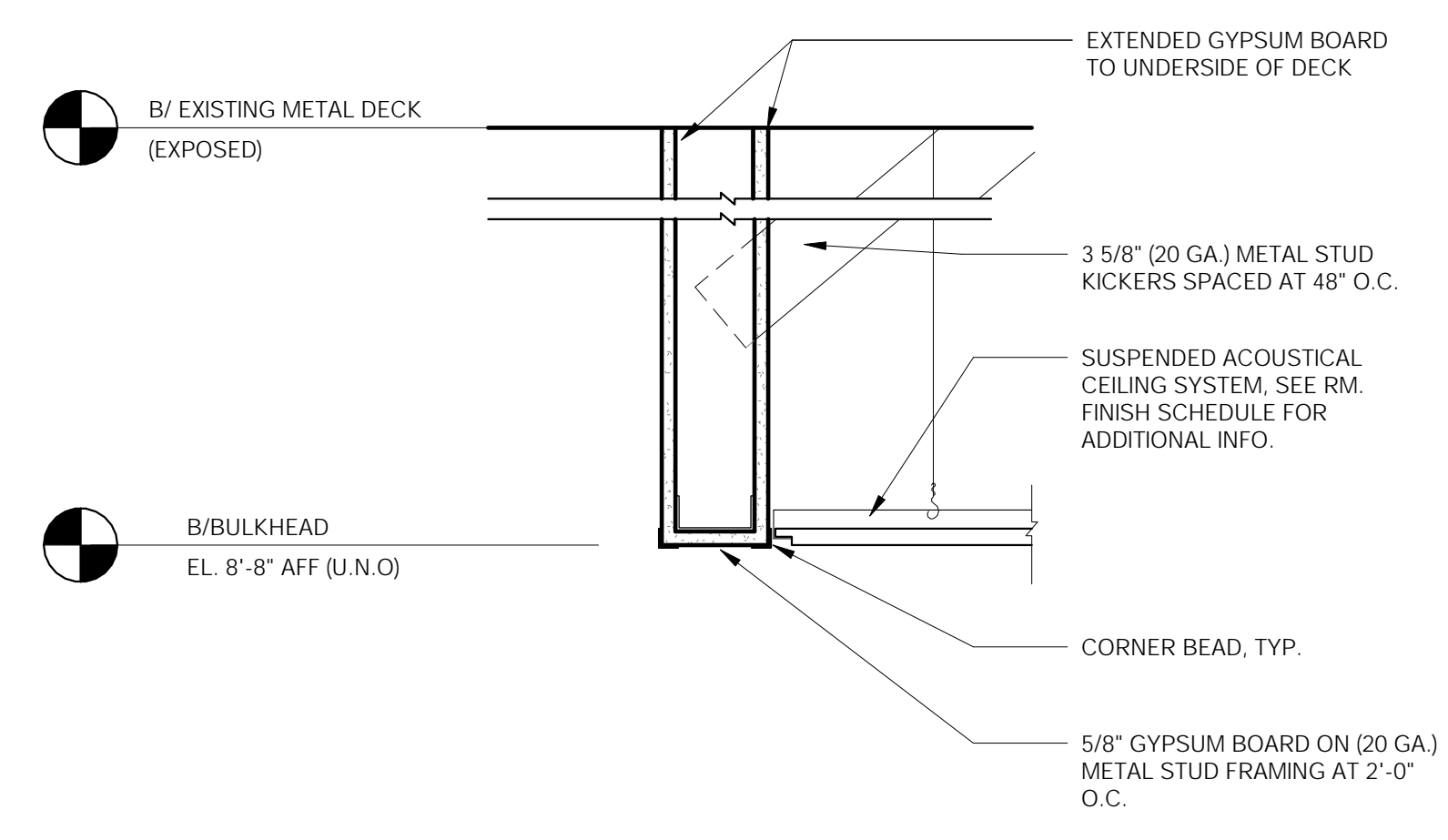


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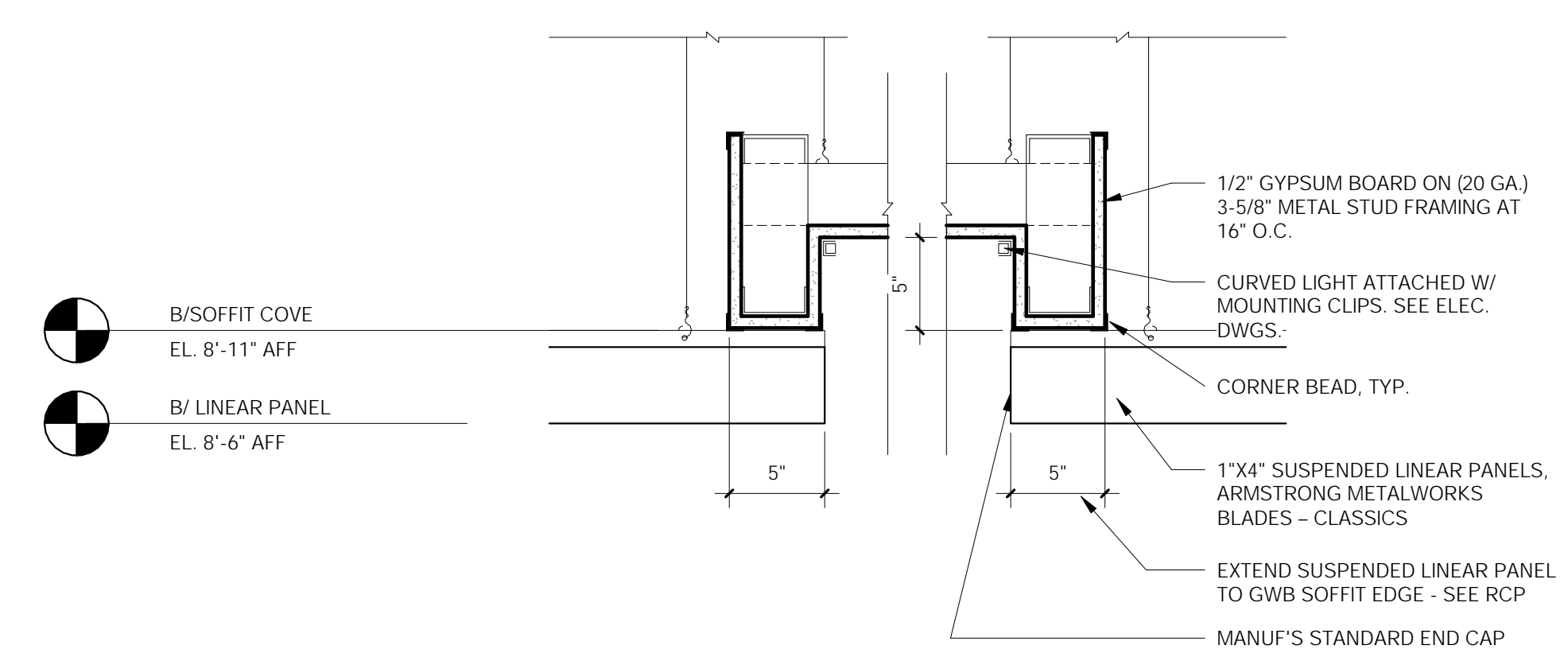
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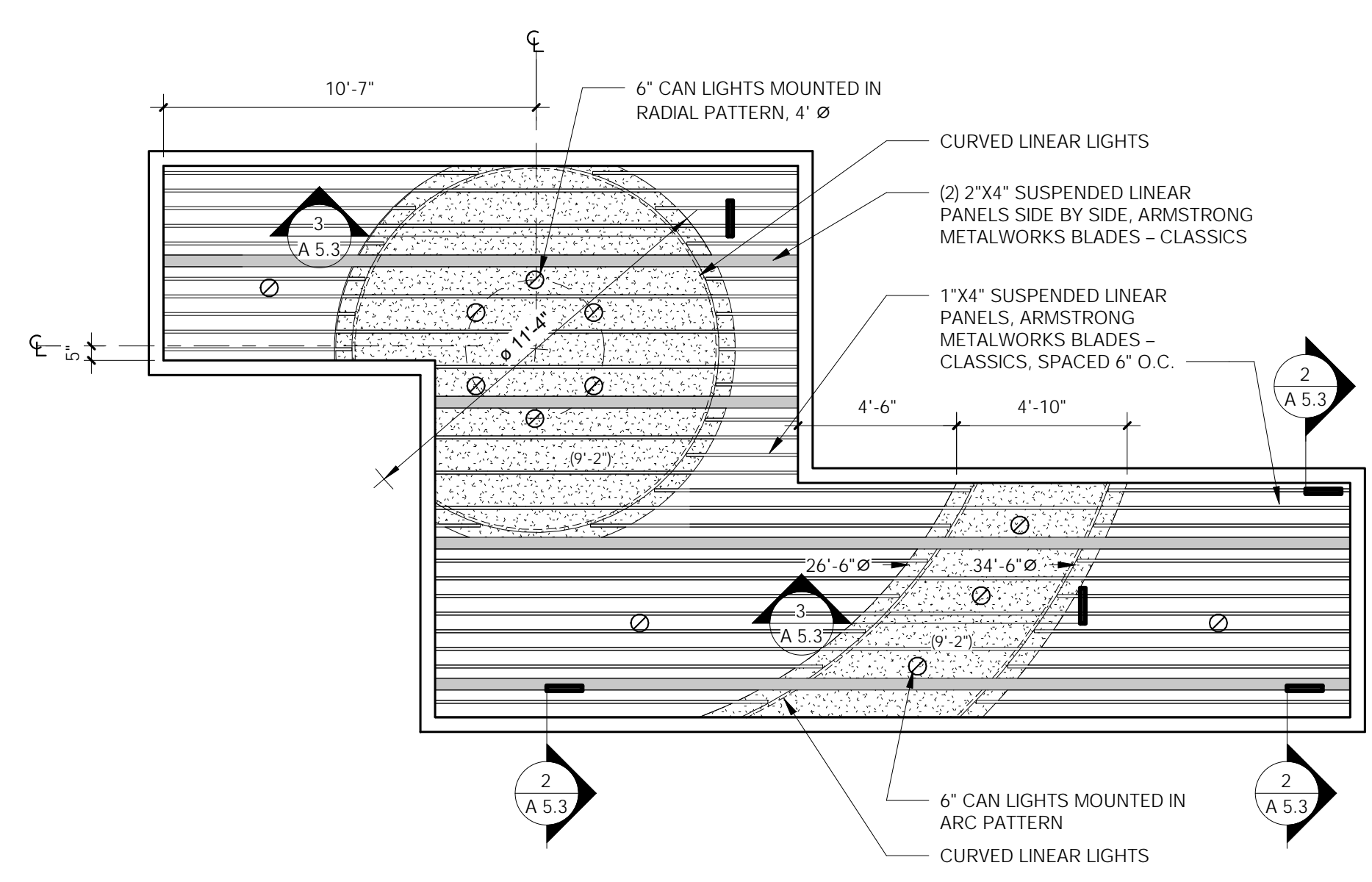
1 CEILING SOFFIT DETAIL
 SCALE 1 1/2" = 1'-0"



2 CEILING BULKHEAD (BH) DETAIL
 SCALE 1 1/2" = 1'-0"



3 LOBBY CEILING DETAIL
 SCALE 1 1/2" = 1'-0"



4 LOBBY CEILING LAYOUT
 SCALE 1/4" = 1'-0"

CLIENT APPROVAL
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 APPROVED AS NOTED
 APPROVED BY / DATE:

ISSUE RECORD

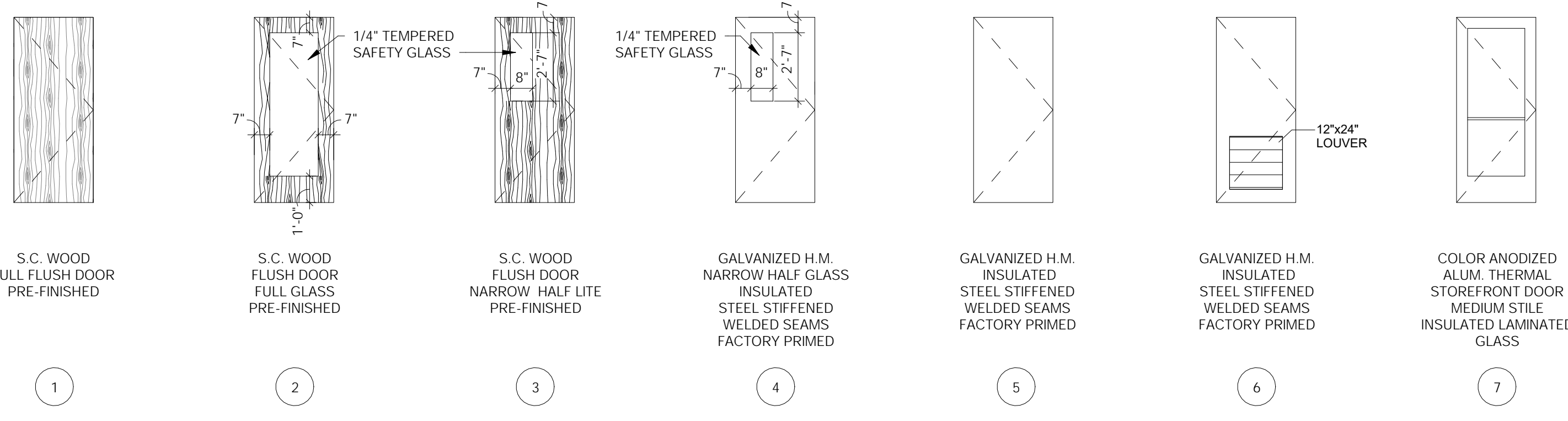
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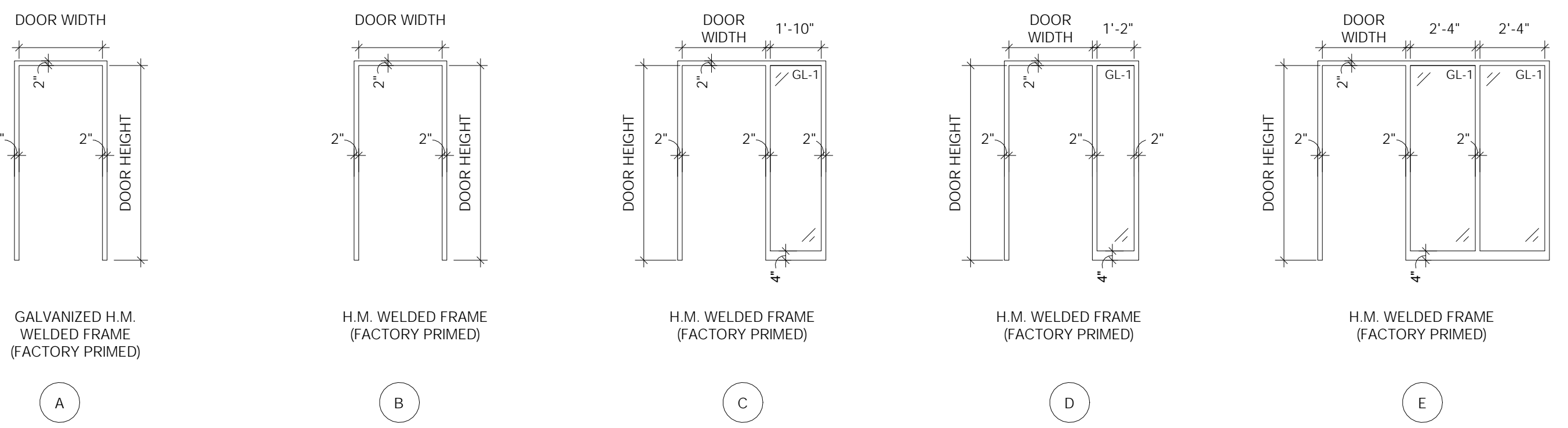
CEILING DETAILS
A 5.3

DOOR AND FRAME SCHEDULE												
Door No.	Room Name	DOOR			FRAME						Comments	
		Width	Height	Leaf	Door Type	Door Material	Frame Type	Frame Material	Jamb Detail	Hardware Set No.		Fire Rating
001A	VESTIBULE	6'-0"	7'-0"	2	7	ALUM.	F	ALUM.		006A		VERIFY EXISTING MASONRY OPENING. CARD READER ACCESS. INSULATED LAMINATED GLASS.
001B	VESTIBULE	6'-0"	7'-0"	2	7	ALUM.	G	ALUM.		006C		CARD READER ACCESS. LAMINATED GLASS.
004	LUNCH ROOM	4'-0"	7'-0"	1	1	WD.	-	-		007		SLIDING BARN DOOR
005A	STAIR	3'-0"	7'-0"	1	5	H.M.	A	H.M.	J2	005G		VERIFY EXISTING MASONRY OPENING. PREP FOR FUTURE CARD READER ACCESS.
005B	STAIR	3'-0"	7'-0"	1	1	WD.	B	H.M.	J1	001	1 HR	
005C	STAIR	3'-0"	7'-0"	1	5	H.M.	A	H.M.	J3	005H	1 HR	VERIFY EXISTING MASONRY OPENING.
006A	E.O.C.	3'-0"	7'-0"	1	2	WD.	B	H.M.	J1	005A		CARD READER ACCESS.
006B	E.O.C.	3'-0"	7'-0"	1	2	WD.	B	H.M.	J1	001B		
007	BREAK OUT	3'-0"	7'-0"	1	2	WD.	B	H.M.	J1	001C		
009	RADIO	3'-0"	7'-0"	1	2	WD.	B	H.M.	J1	004A		CARD READER ACCESS.
012A	STAIR	3'-0"	7'-0"	1	5	H.M.	A	H.M.	J2	005J		VERIFY EXISTING MASONRY OPENING. PREP FOR FUTURE CARD READER ACCESS.
012B	STAIR	3'-0"	7'-0"	1	1	WD.	B	H.M.	J1	005K	1 HR	CARD ACCESS READER BOTH SIDES.
012C	STAIR	3'-0"	7'-0"	1	5	H.M.	A	H.M.	J3	005H	1 HR	VERIFY EXISTING MASONRY OPENING.
014	BREAK OUT	3'-0"	7'-0"	1	3	WD.	B	H.M.	J1	001C		
016	STORAGE	4'-0"	7'-0"	1	5	H.M.	A	H.M.	J3	005F		CARD READER / KEY PAD ACCESS.
017	SHOWER	3'-0"	7'-0"	1	5	H.M.	A	H.M.	J3	002A		PREP FOR FUTURE CARD READER ACCESS.
018	TOILET	3'-0"	7'-0"	1	1	WD.	B	H.M.	J1	002A		
019	TOILET	3'-0"	7'-0"	1	1	WD.	B	H.M.	J1	002A		
020	TOOL STORAGE	3'-0" V.I.F.	7'-0" V.I.F.	1	4	H.M.	A	H.M.	J1	005		VERIFY EXISTING OPENING. CARD READER ACCESS.
021	UTILITY	3'-0" V.I.F.	7'-0" V.I.F.	1	5	H.M.	A	H.M.	J3	005		VERIFY EXISTING MASONRY OPENING. CARD READER ACCESS.
022A	FLEET STORAGE	3'-0"	7'-0"	1	4	H.M.	A	H.M.	J1	002		CARD ACCESS READER BOTH SIDES.
022B	FLEET STORAGE	3'-0"	7'-0"	1	4	H.M.	A	H.M.	J1	001E		CARD ACCESS READER BOTH SIDES. ELECTROMAGNETIC EMERGENCY EGRESS.
022C	FLEET STORAGE	3'-0"	7'-0"	1	4	H.M.	A	H.M.	J2	005B		CARD READER / KEY PAD ACCESS.
022D	FLEET STORAGE	3'-0"	7'-0"	1	5	H.M.	A	H.M.	J3	005I		CARD READER / KEY PAD ACCESS.
022E	FLEET STORAGE	EXG.	EXG.	-	EXG.	EXG.	-	EXG.	-	-		EXG. DR. TO REMAIN. SEE ALLOWANCE #5. PROVIDE (6) REMOTES THAT CONTROL ALL (4) O.H. DRS. ON EA. REMOTE
022F	FLEET STORAGE	EXG.	EXG.	-	EXG.	EXG.	-	EXG.	-	-		EXG. DR. TO REMAIN. SEE ALLOWANCE #5. PROVIDE (6) REMOTES THAT CONTROL ALL (4) O.H. DRS. ON EA. REMOTE
022G	FLEET STORAGE	EXG.	EXG.	-	EXG.	EXG.	-	EXG.	-	-		EXG. DR. TO REMAIN. SEE ALLOWANCE #5. PROVIDE (6) REMOTES THAT CONTROL ALL (4) O.H. DRS. ON EA. REMOTE
022H	FLEET STORAGE	EXG.	EXG.	-	EXG.	EXG.	-	EXG.	-	-		EXG. DR. TO REMAIN. SEE ALLOWANCE #5. PROVIDE (6) REMOTES THAT CONTROL ALL (4) O.H. DRS. ON EA. REMOTE
023A	CONFERENCE	3'-0"	7'-0"	1	7	ALUM.	M	ALUM.	J4	006B		
023B	CONFERENCE	3'-0"	7'-0"	1	3	WD.	B	H.M.	J1	002		CARD READER ACCESS. BOTH SIDES.
026A	CONFERENCE	3'-0"	7'-0"	1	2	WD.	E	H.M.	J4	001C		
027	OFFICE	3'-0"	7'-0"	1	2	WD.	C	H.M.	J1	004		
028	CLOSET	2'-4"	7'-0"	1	1	WD.	B	H.M.	J1	001A		
029	OFFICE	3'-0"	7'-0"	1	2	WD.	C	H.M.	J1	004		
030	OFFICE	3'-0"	7'-0"	1	2	WD.	C	H.M.	J1	004		
031	OFFICE	3'-0"	7'-0"	1	2	WD.	C	H.M.	J1	004		
032	VESTIBULE	3'-0"	7'-0"	1	7	ALUM.	H	ALUM.		006		CARD READER ACCESS. INSULATED LAMINATED GLASS.
033	OFFICE	3'-0"	7'-0"	1	2	WD.	C	H.M.	J1	004		
034	DEPUTY OFFICE	3'-0"	7'-0"	1	2	WD.	C	H.M.	J1	004		
035	DIRECTOR'S OFFICE	3'-0"	7'-0"	1	2	WD.	C	H.M.	J1	004A		CARD READER ACCESS.
036	WORK SPACE	3'-0"	7'-0"	1	2	WD.	B	H.M.	J1	005B		CARD READER ACCESS.
037	MECHANICAL	3'-0"	7'-0"	1	1	WD.	B	H.M.	J1	005C		
038	OFFICE	3'-0"	7'-0"	1	2	WD.	D	H.M.	J1	004		
039	OFFICE	3'-0"	7'-0"	1	2	WD.	B	H.M.	J1	004		
040	OFFICE	3'-0"	7'-0"	1	2	WD.	B	H.M.	J1	004		
041	TOILET	3'-0"	7'-0"	1	1	WD.	B	H.M.	J1	002A		
042	CLOSET	3'-0"	7'-0"	1	1	WD.	B	H.M.	J1	001D		
043	TOILET	3'-0"	7'-0"	1	1	WD.	B	H.M.	J1	002A		
045	NETWORK	3'-0"	7'-0"	1	4	H.M.	A	H.M.	J1	005		CARD READER ACCESS.
046	RADIO CLOSET	3'-0"	7'-0"	1	5	H.M.	A	H.M.	J1	005		CARD READER ACCESS.
047	MEZZANINE	2'-4"	5'-0"	1	5	H.M.	A	H.M.	J3	008		ROOF ACCESS.
048	UTILITY	4'-0"	7'-0"	1	6	H.M.	A	H.M.	J1	005D		

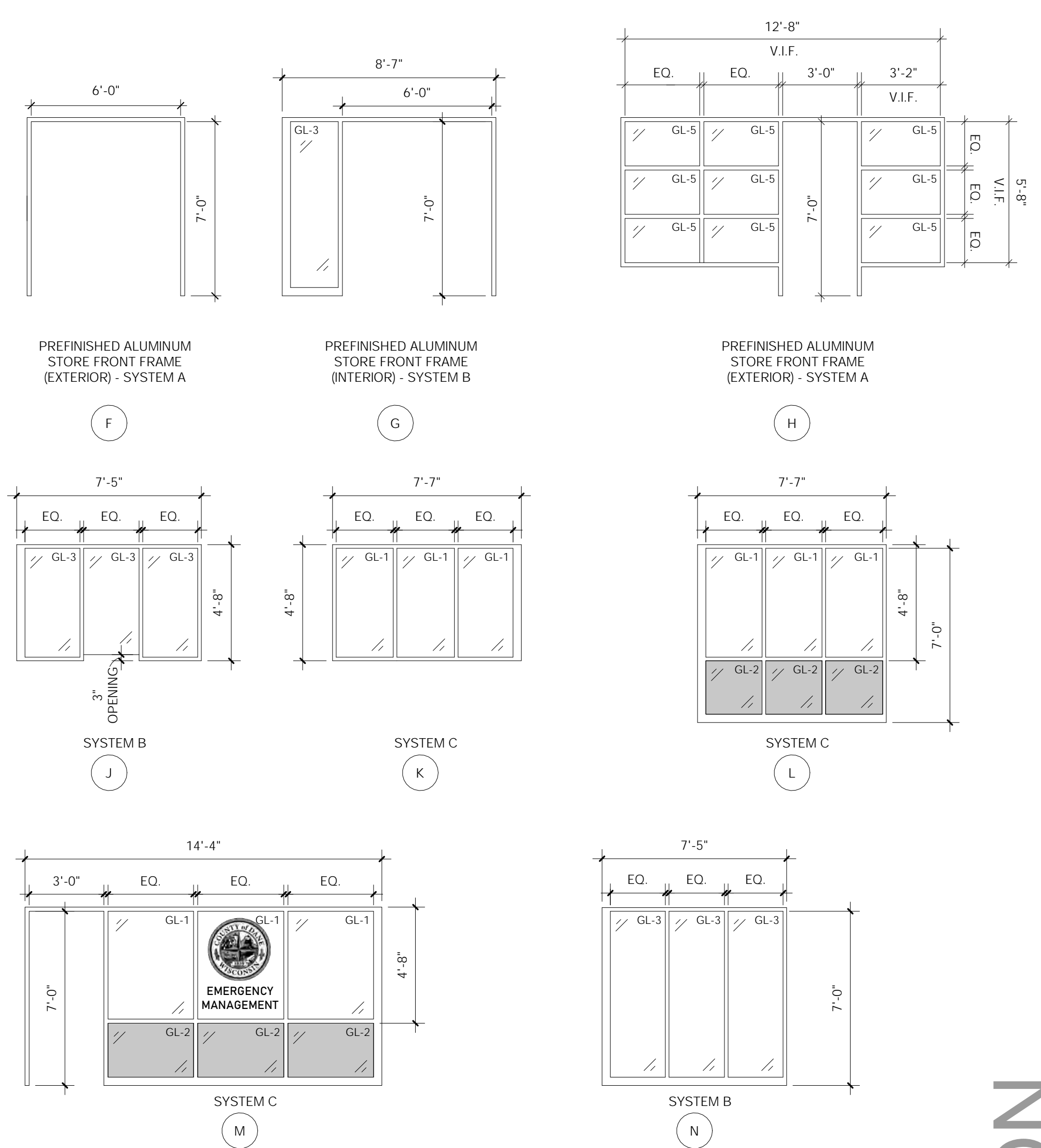
DOOR TYPES



FRAME TYPES



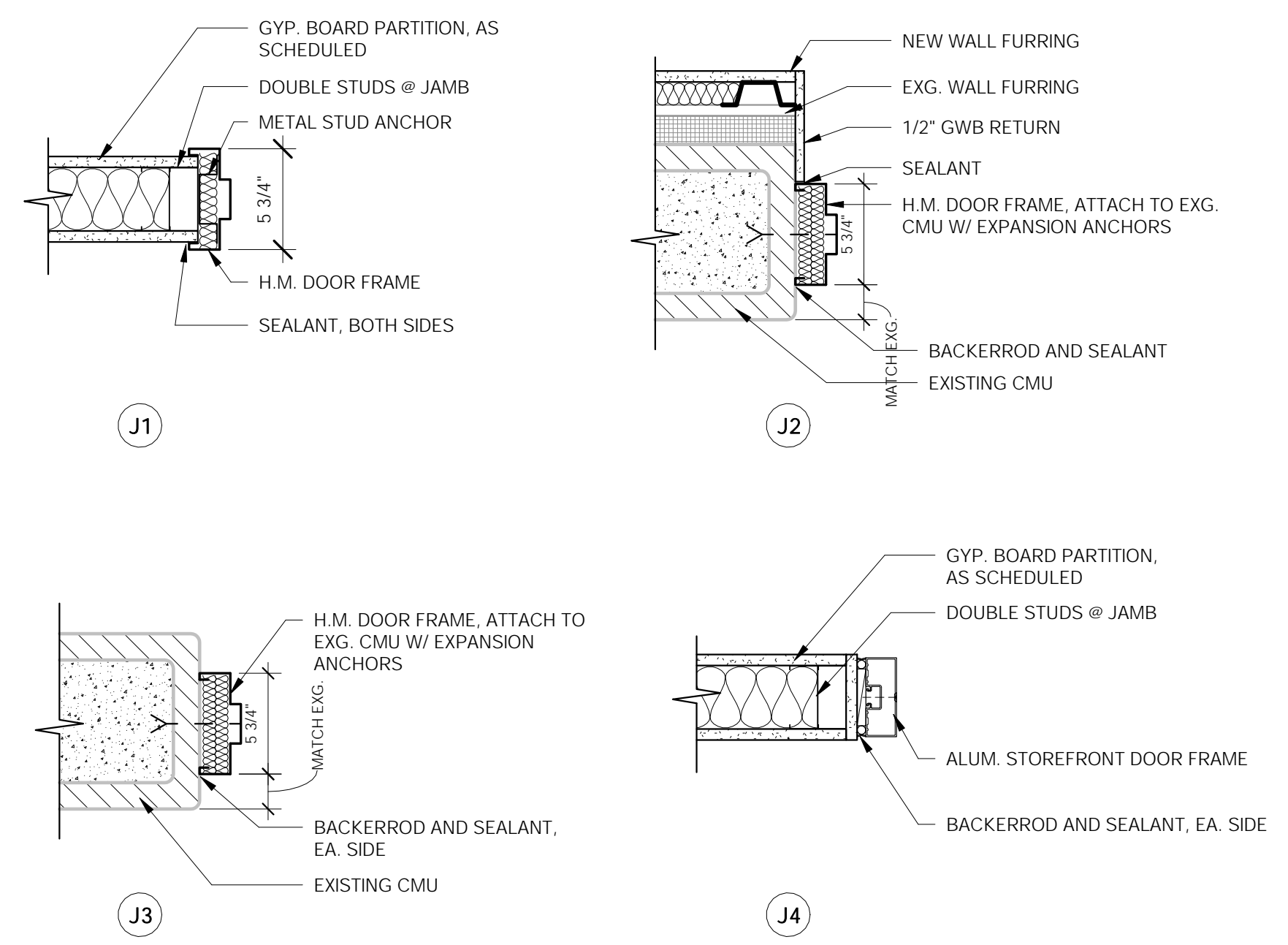
ALUMINUM STOREFRONT FRAME TYPES



STOREFRONT SYSTEM LEGEND:
 SYSTEM A = EXTERIOR SECURITY (+ ALL WINDOWS)
 SYSTEM B = INTERIOR SECURITY
 SYSTEM C = INTERIOR

GLAZING LEGEND:
 GL-1 1/4" UNCOATED CLEAR TEMPERED SAFETY GLASS
 GL-2 1/4" COATED TEMPERED SAFETY GLASS
 GL-3 3/8" LAMINATED GLASS
 GL-4 LAMINATED CANOPY GLASS
 GL-5 1-3/16" LOW-E INSULATED, LAMINATED GLASS

DOOR JAMB DETAILS



PRAIRIE FORGE GROUP
 300 CARDINAL DRIVE
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 630.221.0118 | F
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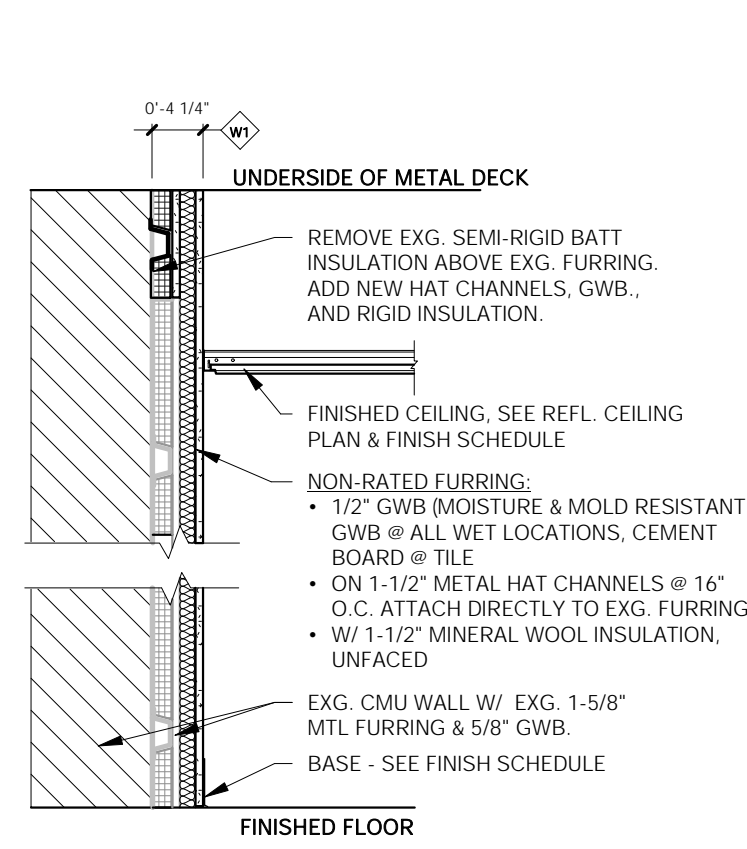
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DOOR + FRAME SCHEDULE

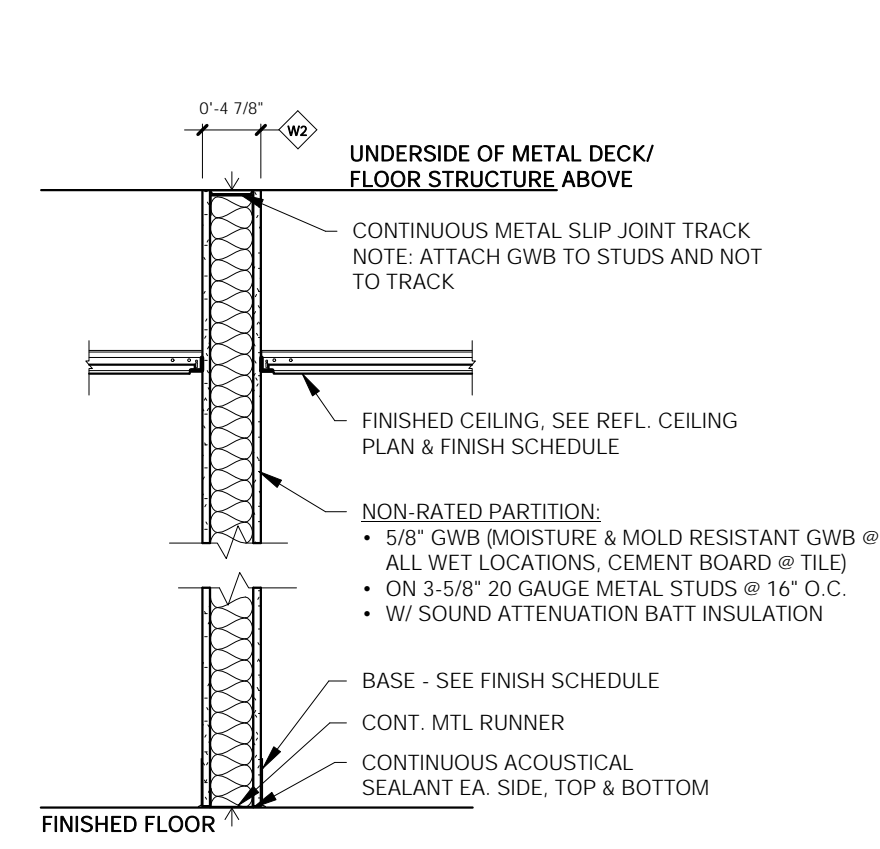
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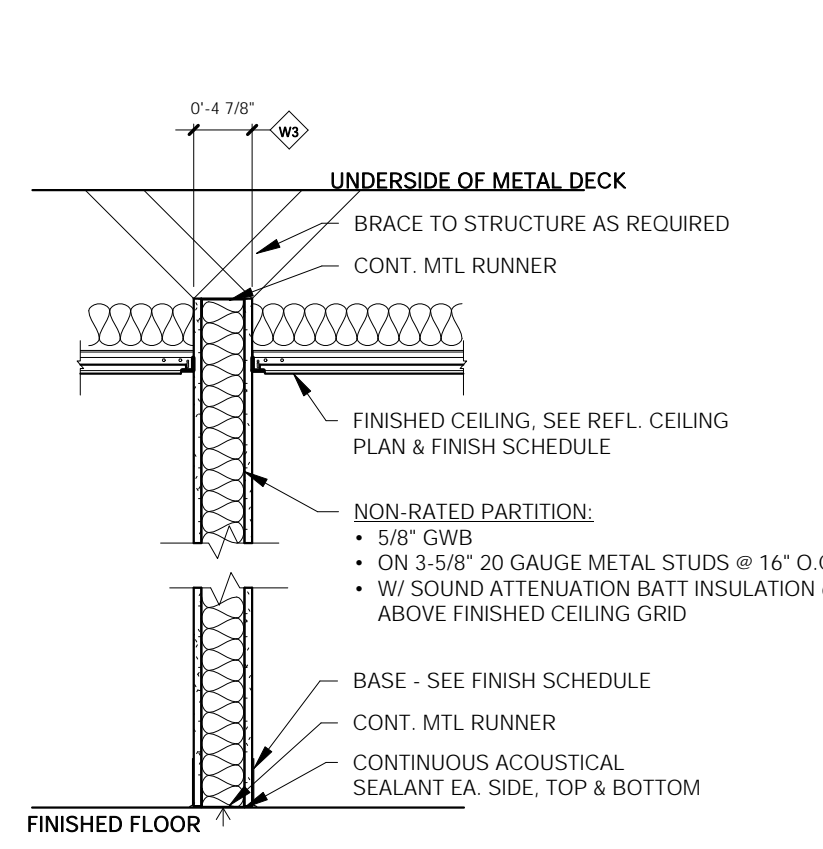
WALL TYPES



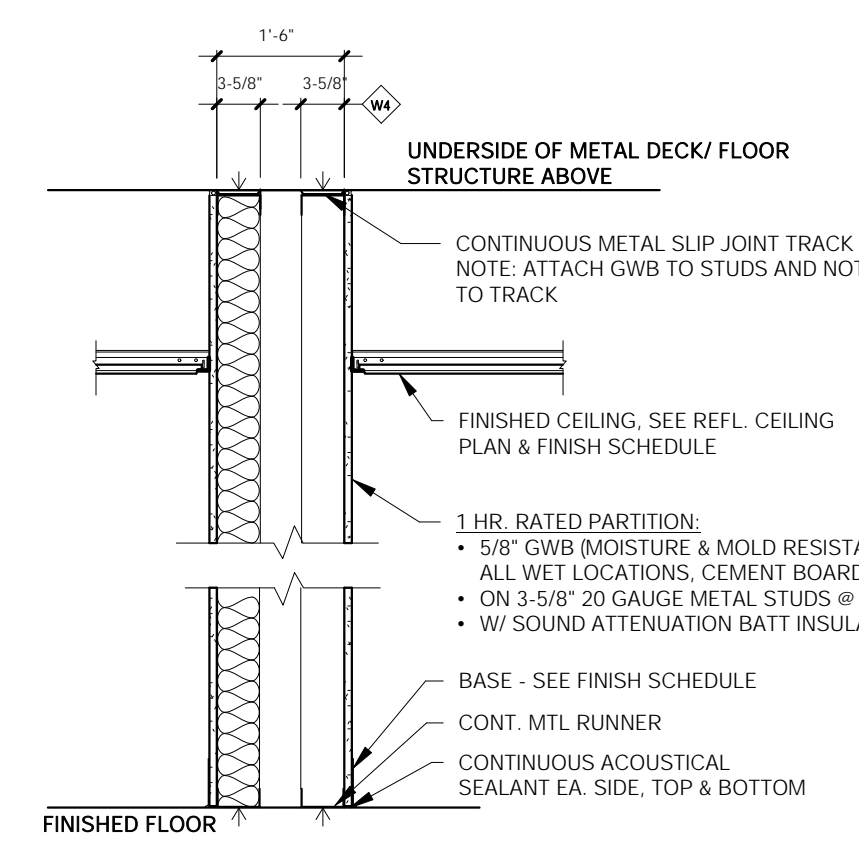
W1 NON-RATED FURRING PARTITION
SCALE: 3/4"=1'-0"



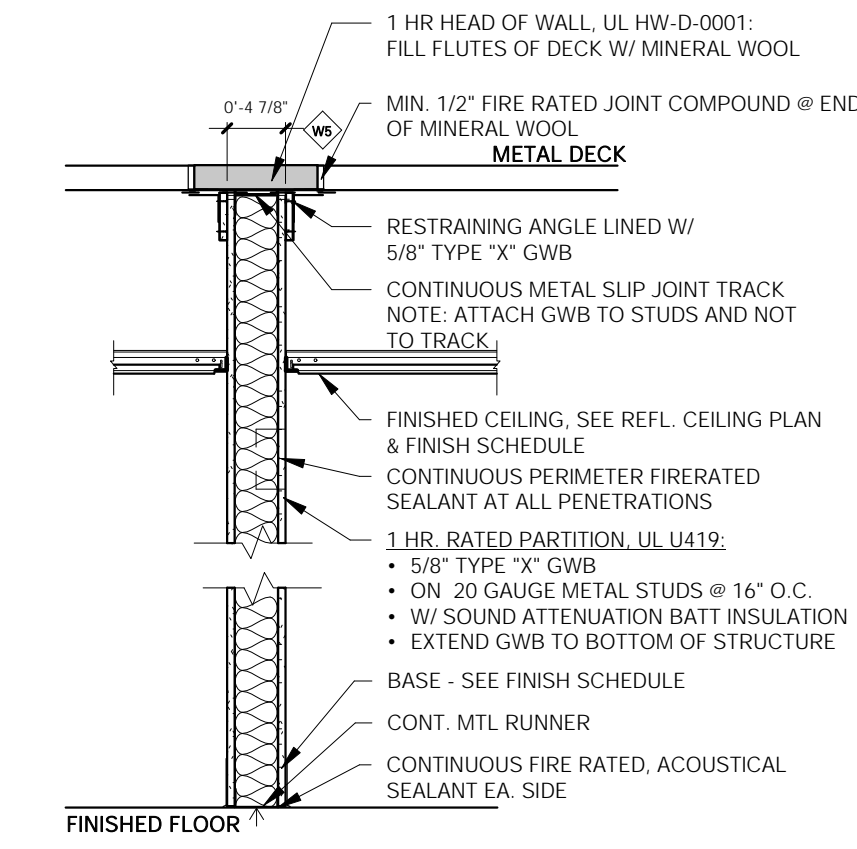
W2 NON - RATED FULL HEIGHT ACOUSTICAL PARTITION
SCALE: 3/4"=1'-0"



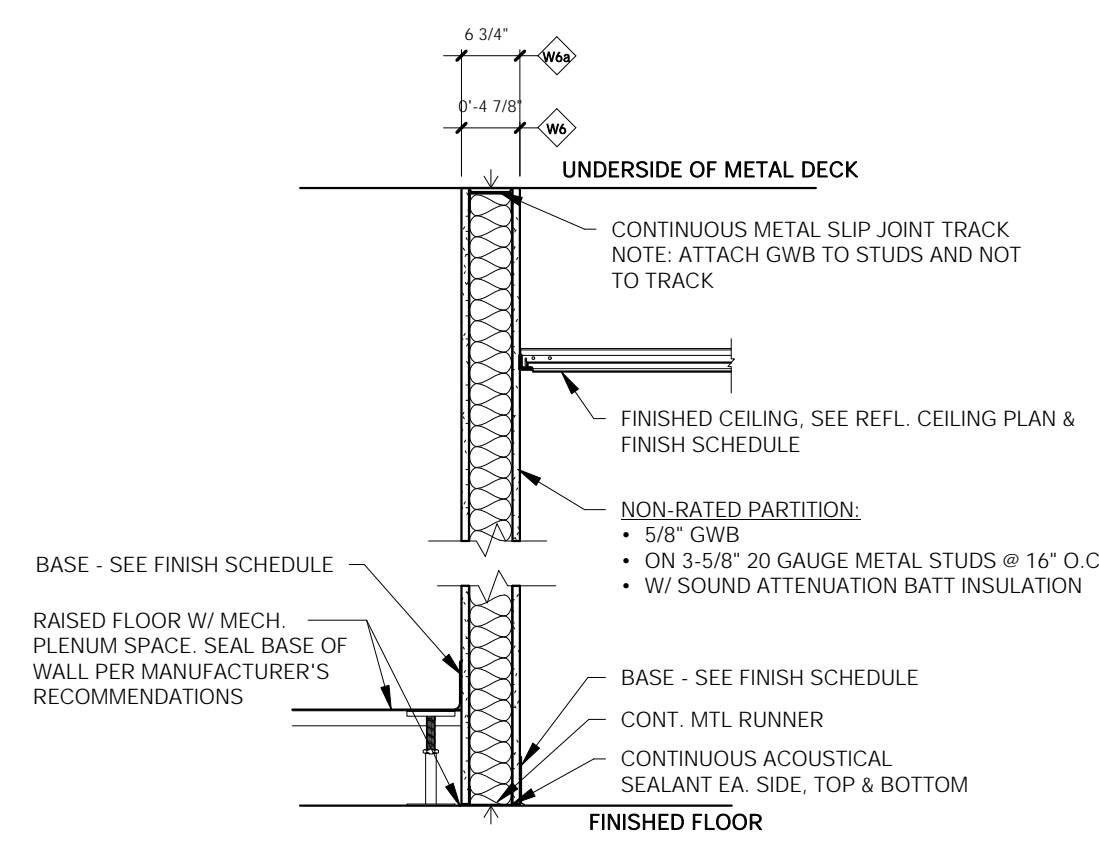
W3 NON - RATED ACOUSTICAL PARTITION
SCALE: 3/4"=1'-0"



W4 NON - RATED FULL HEIGHT CHASE PARTITION
SCALE: 3/4"=1'-0"

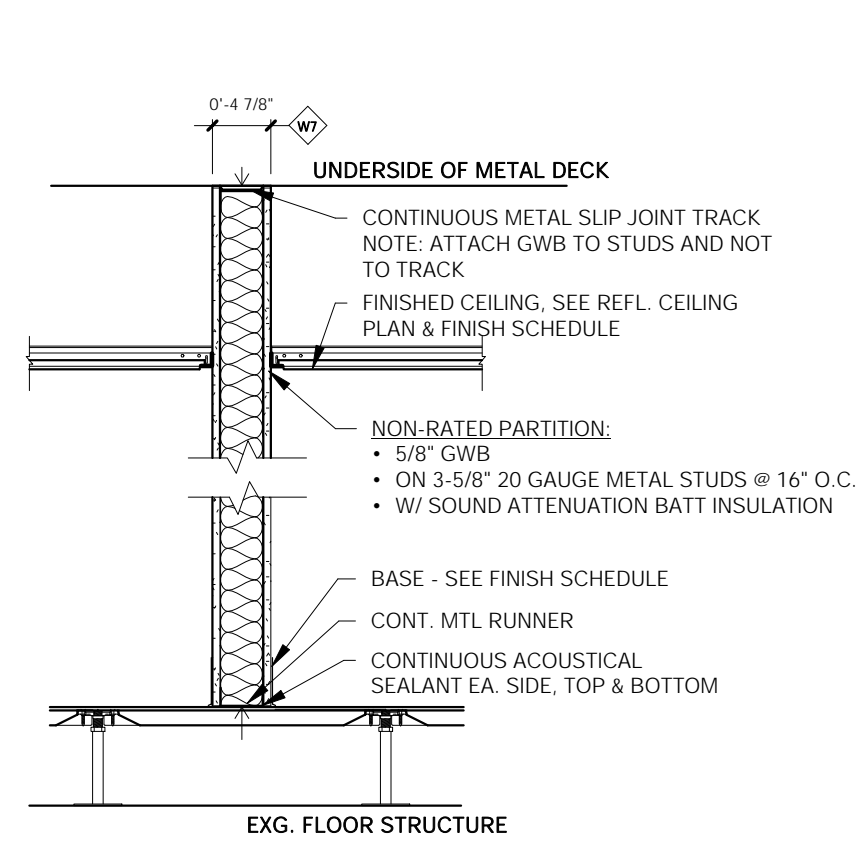


W5 1 HR. - RATED FULL HEIGHT PARTITION
SCALE: 3/4"=1'-0"

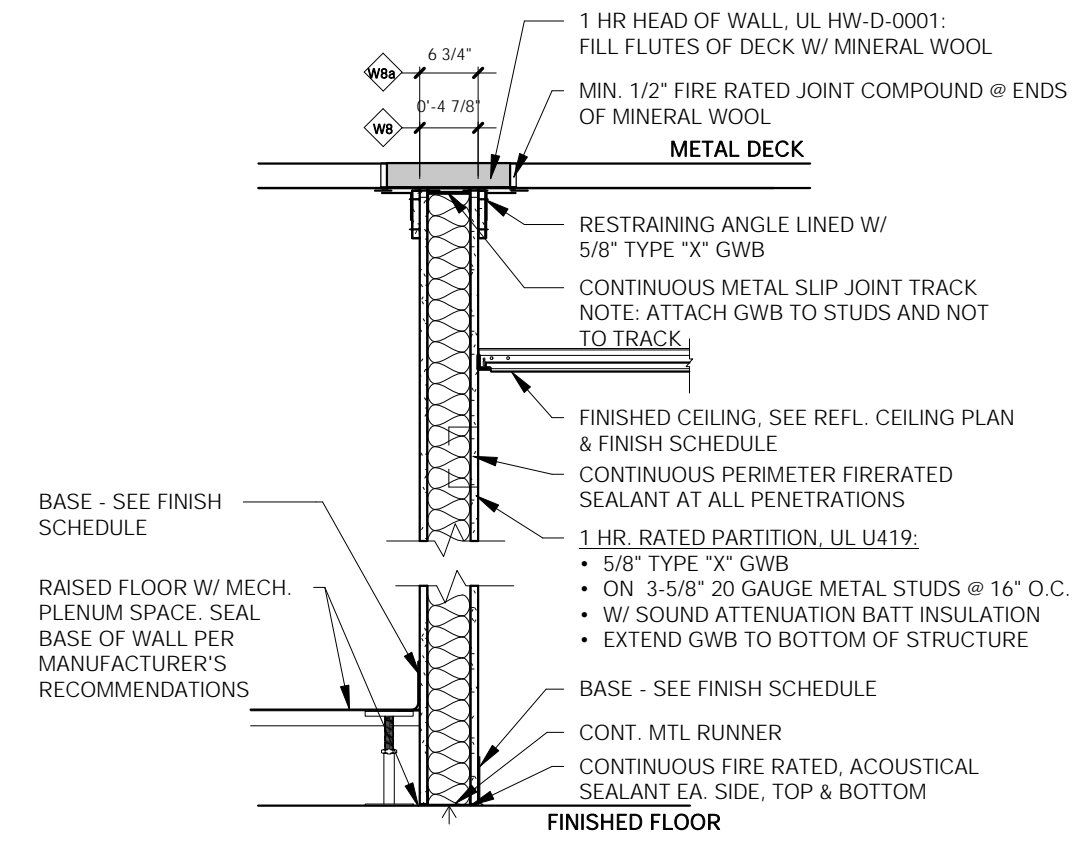


W6 NON - RATED FULL HEIGHT ACOUSTICAL PARTITION @ RAISED ACCESS FLOOR
SCALE: 3/4"=1'-0"

W6a 5-1/2" STUD

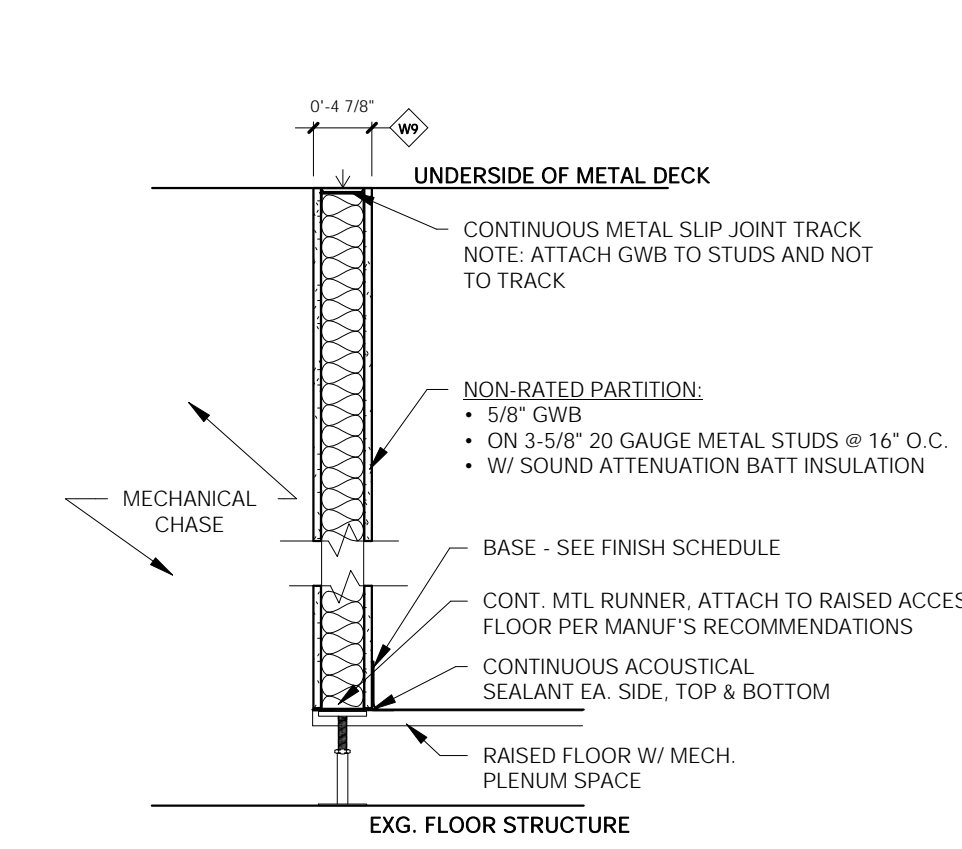


W7 NON - RATED FULL HEIGHT ACOUSTICAL PARTITION @ RAISED ACCESS FLOOR
SCALE: 3/4"=1'-0"

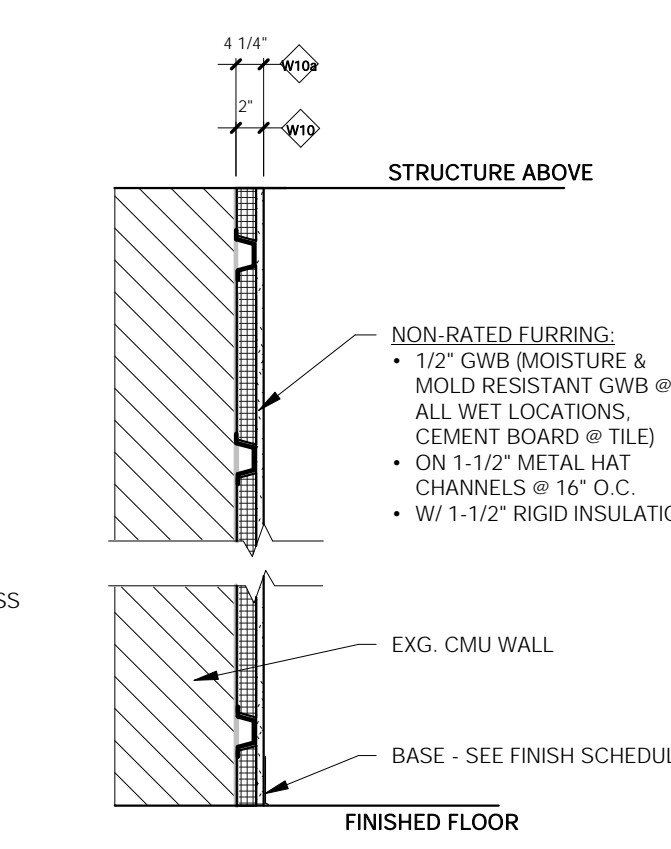


W8 1 HR. - RATED FULL HEIGHT ACOUSTICAL PARTITION @ RAISED ACCESS FLOOR
SCALE: 3/4"=1'-0"

W8a 5-1/2" STUD

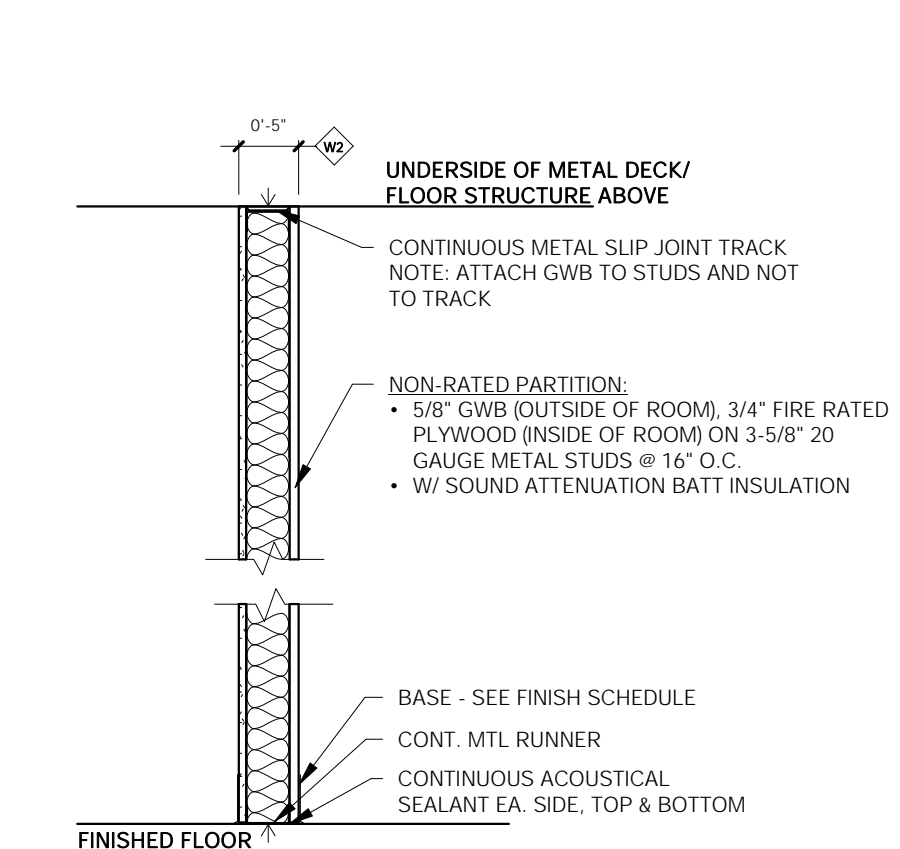


W9 NON - RATED FULL HEIGHT ACOUSTICAL CHASE PARTITION @ RAISED ACCESS FLOOR
SCALE: 3/4"=1'-0"

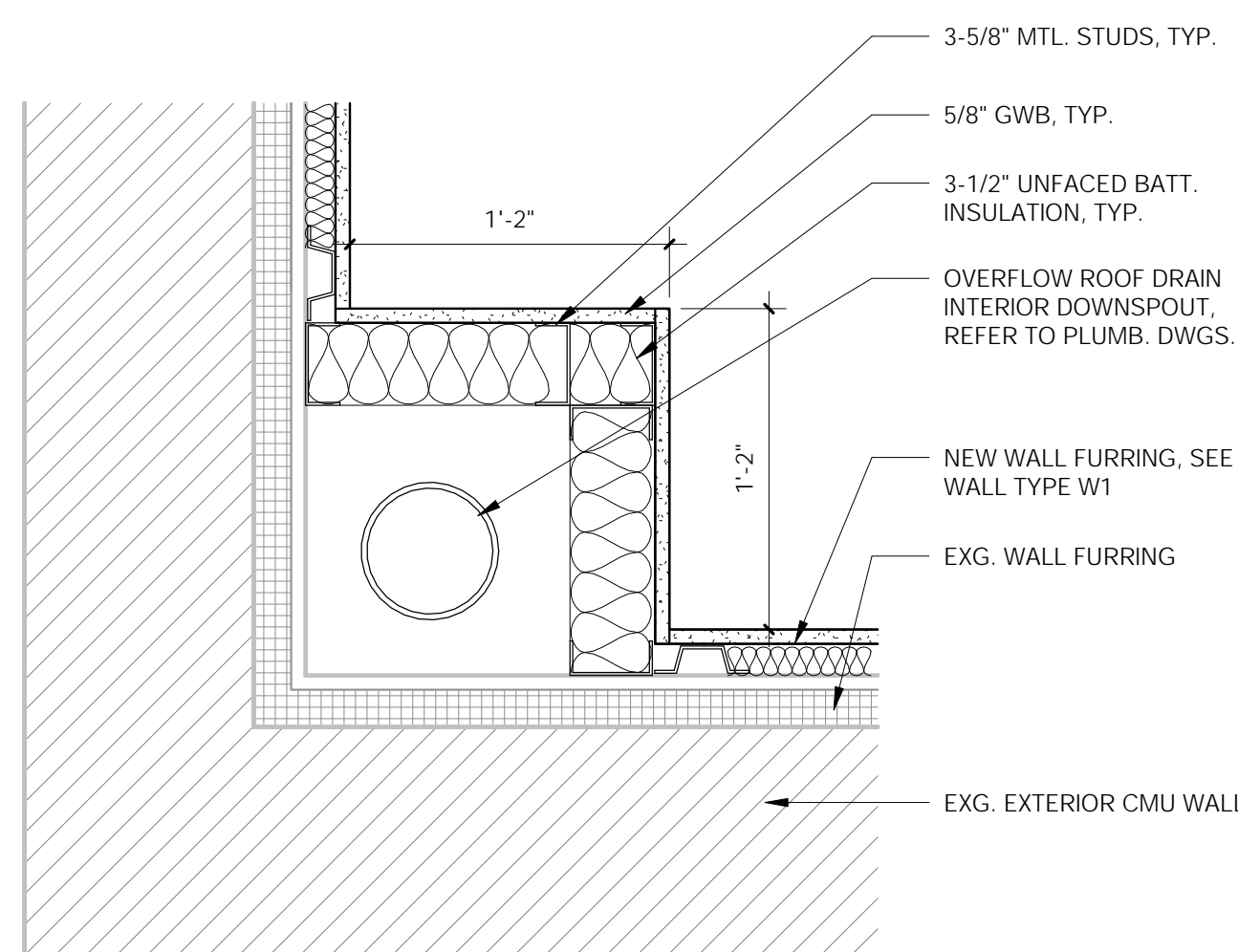


W10 NON-RATED FURRING PARTITION
SCALE: 3/4"=1'-0"

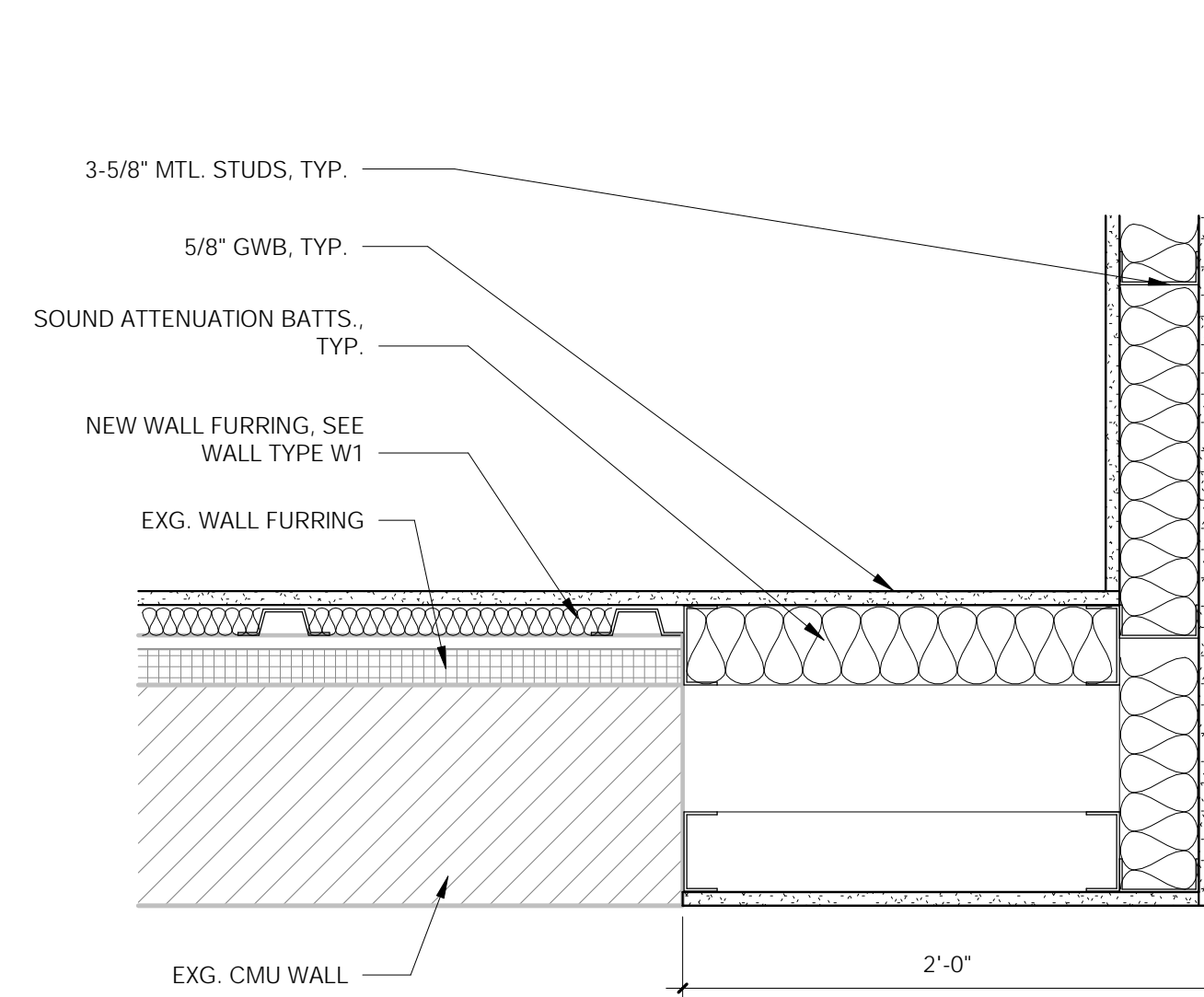
W10a 3-5/8" STUD



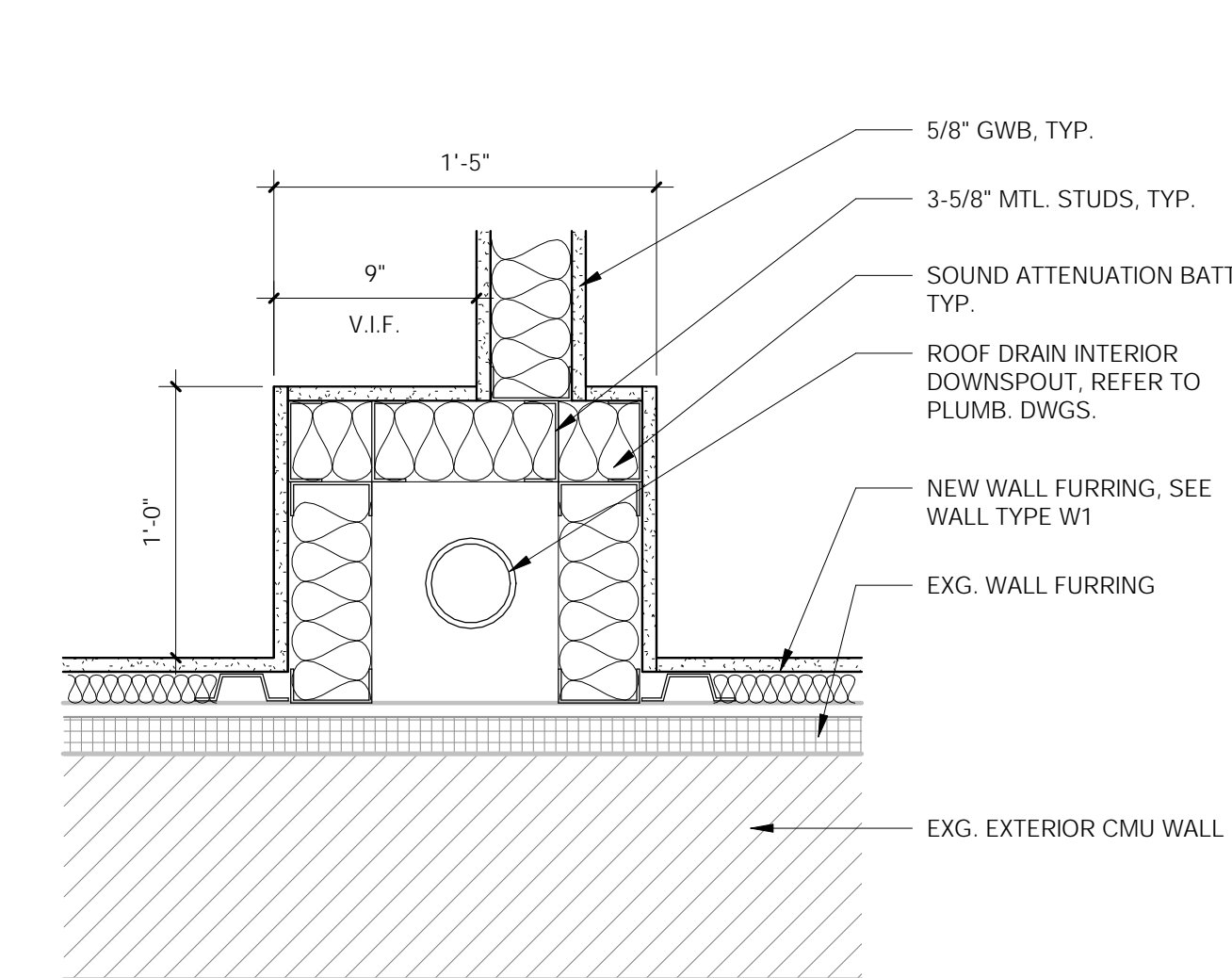
W11 NON - RATED FULL HEIGHT ACOUSTICAL PARTITION
SCALE: 3/4"=1'-0"



1 PLAN DETAIL 1
SCALE 1 1/2" = 1'-0"



2 PLAN DETAIL 2
SCALE 1 1/2" = 1'-0"



3 PLAN DETAIL 3
SCALE 1 1/2" = 1'-0"

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WALL TYPES + PLAN DETAILS

A 6.2

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FLOOR FINISH PLAN + SCHEDULE
A 7.1

ROOM FINISH SCHEDULE								
Name	Number	Base Finish	Floor Finish	Ceiling Finish	East Wall	North Wall	South Wall	West Wall
WEST	001	WB-1	CPT-1	C-1, PT-5	PT-1	PT-1	PT-1	PT-1
LOBBY	002	WB-1	LVT-1	C-2, PT-5	PL-4, PT-1	PT-1	PT-1	PT-1
DISPLAY	003	WB-1	LVT-1	C-2, PT-5	PT-1	PT-1	PT-1	PT-1
LUNCH ROOM	004	WB-1	LVT-1	AC-1	PT-1	PT-1	PT-1	PT-1
STAIR	005	WB-2	EXG. CONC./ST-1	AC-1	PT-1	PT-1	PT-1	PT-1
E.O.C.	006	WB-1	CPT-2	PT-4, AP-1	PT-1	PT-1	PT-1	PT-1
BREAK OUT	007	WB-1	CPT-2	AC-1	PT-1	PT-1	PT-1	PT-1
RADIO	009	WB-1	CPT-2	AC-1	PT-1	PT-1	PT-1	PT-1
STAIR	012	WB-2	EXG. CONC./ST-1	AC-1	PT-1	PT-1	PT-1	PT-1
LOUNGE	013	WB-1	LVT-1	PT-4, AP-1	PT-1	PT-1	PT-1	PT-1
BREAK OUT	014	WB-1	CPT-2	AC-1	PT-1	PT-1	PT-1	PT-1
STOR.	015	WB-1	CPT-2	AC-1	PT-1	PT-1	PT-1	PT-1
STOR.	016	WB-2	EXG. CONC.	PT-6	PT-1	PT-1	PT-1	PT-1
SHOWER	017	-	CT-1, CT-2	PT-6	CT-4, PT-1	CT-4, PT-1	CT-4, PT-1	CT-4, PT-1
TOILET	018	-	CT-3	PT-6	CT-4, PT-1	CT-4, PT-1	CT-4, PT-1	CT-4, PT-1
TLT.	019	-	CT-3	PT-6	CT-4, PT-1	CT-4, PT-1	CT-4, PT-1	CT-4, PT-1
TOOL STOR.	020	WB-2	EXG. TILE	PT-6	PT-1	PT-1	PT-1	PT-1
UTILITY	021	WB-2	EXG. CONC.	PT-6	PT-1	PT-1	PT-1	PT-1/FRP-1
FLEET STORAGE	022	-	EXG. CONC.	-	-	-	-	-
CONFERENCE	023	WB-1	CPT-3	AC-1	PT-1	PT-1	PT-1	PT-1
RECEPTION	024	WB-1	CPT-3	AC-1	PT-1	PT-1	PT-1	PT-1
WORK AREA	025	WB-1	CPT-3	AC-1	PT-1	PT-1	PT-1, PT-2	PT-1
CONFERENCE	026	WB-1	CPT-3	AC-1	PT-1	PT-1	PT-1	PT-1
OFFICE	027	WB-1	CPT-3	AC-1	PT-1	PT-1	PT-1	PT-1
CLST.	028	WB-1	CPT-3	AC-1	PT-1	PT-1	PT-1	PT-1
OFFICE	029	WB-1	CPT-3	AC-1	PT-1	PT-1	PT-1	PT-1
OFFICE	030	WB-1	CPT-3	AC-1	PT-1	PT-1	PT-1	PT-1
OFFICE	031	WB-1	CPT-3	AC-1	PT-1	PT-1	PT-1	PT-1
WEST	032	WB-1	CPT-3	AC-1	PT-1	PT-1	PT-1	PT-1
OFFICE	033	WB-1	CPT-3	AC-1	PT-1	PT-1	PT-1	PT-1
DEP. OFFICE	034	WB-1	CPT-3	AC-1	PT-1	PT-1	PT-1	PT-1
DIR. OFFICE	035	WB-1	CPT-3	AC-1	PT-1	PT-1	PT-1	PT-1
WORK SPACE	036	WB-1	CPT-3	PT-4, AP-1	PT-1, PT-2	PT-1, PT-2	PT-1	PT-1
MECH.	037	WB-2	EXG. CONC.	-	PT-1	PT-1	PT-1	PT-1
OFFICE	038	WB-1	CPT-3	AC-1	PT-1	PT-1	PT-1	PT-1
OFFICE	039	WB-1	CPT-3	AC-1	PT-1	PT-1	PT-1	PT-1
OFFICE	040	WB-1	CPT-3	AC-1	PT-1	PT-1	PT-1	PT-1
TOILET	041	-	CT-3	PT-7	CT-4, PT-1	CT-4, PT-1	CT-4, PT-1	CT-4, PT-1
CLST.	042	WB-2	EXG. CONC.	AC-1	PT-1	PT-1	PT-1	PT-1, FRP-1
TOILET	043	-	CT-3	PT-7	CT-4, PT-1	CT-4, PT-1	CT-4, PT-1	CT-4, PT-1
BASEMENT	044	-	EXG. CONC.	-	-	-	-	-
NETWORK	045	WB-2	CONC., SEAL	-	PLWD/PT-1	PLWD/PT-1	PLWD/PT-1	PLWD/PT-1
RADIO CL	046	WB-2	SEAL CONC.	-	PT-1	PT-1	PLWD/PT-1	PLWD/PT-1
MEZZANINE	047	WB-2	SEAL CONC.	-	PT-1	PT-1	PT-1	PT-1
UTILITY	048	EB-1	ERF-1	PT-7	PT-1	PT-1	PT-1	PT-1

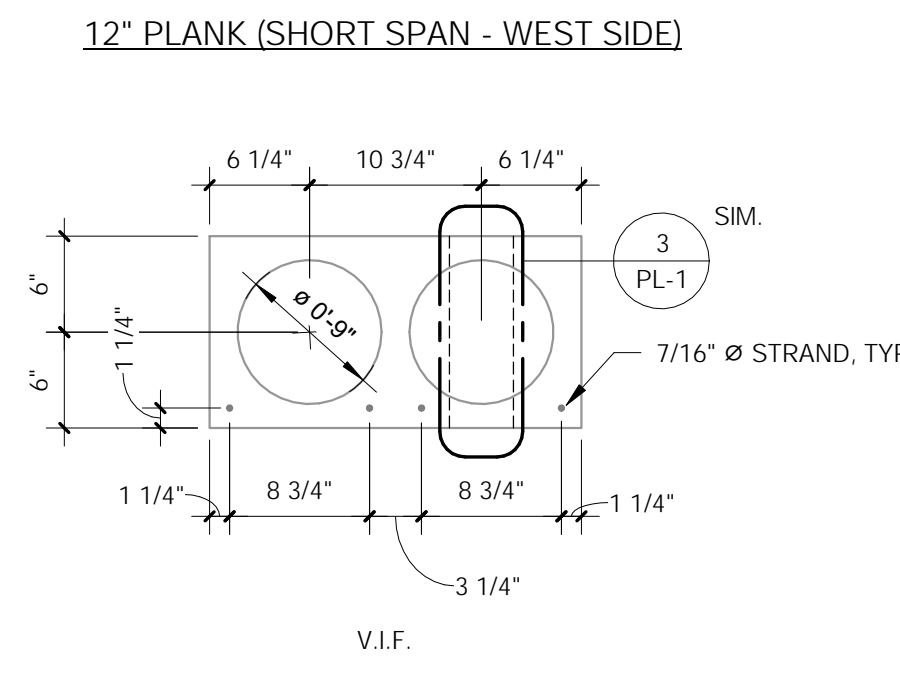
- ROOM FINISH SCHEDULE GENERAL NOTES:**
- SEE COVER SHEET FOR ABBREVIATIONS.
 - DISCREPANCIES BETWEEN THE ROOM FINISH SCHEDULE AND DRAWINGS SHALL BE REPORTED TO THE ARCHITECT FOR FINISH DETERMINATION.
 - ON WALLS THAT ARE COVERED WITH MILL WORK, A FINISH SHALL NOT BE APPLIED TO THE WALL BEHIND EXCEPT FOR LOCATIONS WHICH MAY BE EXPOSED (I.E. SPACE BETWEEN MILL WORK AND ADJACENT PERPENDICULAR WALL)
 - SEE INTERIOR ELEVATION AND DETAILS FOR TILE PATTERN.

ROOM FINISH LEGEND	
PAINT	PLASTIC LAMINATE
PT-1 SHERWIN WILLIAMS, CHATROOM, SW6171	PL-1 FORMICA, MATTE FINISH, COGNAC MAPLE, NO. 7738-58
PT-2 SHERWIN WILLIAMS, RIVERWAY, SW6222	PL-2 FORMICA, SCULPTED FINISH, STORM SOLIDZ, NO. 3505-SP
PT-3 SHERWIN WILLIAMS, CYBERSPACE, SW7076	PL-3 NOT USED
PT-4 SHERWIN WILLIAMS, TONY TAUPE, SW7038	PL-4 CHEMETAL, FUGUE ALUMINUM, 621
PT-5 EXPOSED STRUCTURE PAINT, TBD	SOLID SURFACE
PT-6 CONC. PLANK CEILING PAINT, TBD	SS-1 CORIAN, DOESKIN
PT-7 WHITE CEILING PAINT	SS-2 CORIAN, ELEGANT GRAY
CARPET	FLOOR AND WALL TILE
CPT-1 SHAW CONTRACT, ENTRYWAY SYSTEMS, WELCOME II TILE 5T031, COLOR: BLUE 31400	CT-1 MIRAGE, HUB DESIGN CORE, COLOR- BRIGHT UB 10, 2' X 2' MOSAICO 36T (12"X12" SHEET) NAT NATURAL FINISH
CPT-2 SHAW CONTRACT, HYBRID TILE, STYLE NO. 59580, COLOR - STIPPLE 64505, W/ POSITILE ATTACHMENT TO RAISED ACCESS FLOOR PANELS.	CT-2 MIRAGE, HUB DESIGN CORE, COLOR- BRIGHT UB 10, 24"X24", BC BOCCARDATA FINISH
CPT-3 SHAW CONTRACT, CATALYST TILE, STYLE NO. 59579, COLOR - SEASON 64330	CT-3 MIRAGE, HUB DESIGN CORE, COLOR- BRIGHT UB 10, 12" X 24", NAT NATURAL FINISH
	CT-4 MIRAGE, COTTON WW01, 12" X 24"
CEILINGS	WALL BASE AND FLOORING
C-1 2X2 LAY-IN TRANSLUCENT PANEL CEILING TILE ON SUSPENDED METAL GRID, ARMSTRONG "INFUSIONS"	WB-1 JOHNSONITE, TA4 GATEWAY WG, 4"
C-2 SUSPENDED LINEAR PANELS, ARMSTRONG METALWORKS BLADES - CLASSICS	WB-2 JOHNSONITE, 6"
AC-1 2X2 LAY-IN ACOUSTICAL PANEL CEILING TILE ON SUSPENDED METAL GRID	LVT-1 SHAW, COMPOUND 5.0MM, STYLE NO. 4077V, COLOR-BERYL, COLOR NO. 77429, 24" X 24"
AP-1 2"X4" ACCOUSTICAL CEILING PANEL, ARMSTRONG TECTUM FINALE	ERF-1 EPOXY RESINOUS FLOORING TNE/EC DECO TREAD, IC-222-0206 IC 284-000 DECO CLEAR. INSTALL WATERPROOF MEMBRANE AS A PART OF THE SYSTEM INSTALLATION.
CORNER GUARDS + WALL PANELS	EB-1 EPOXY RESINOUS BASE (6"). SEE DETAIL 5/3.2
CG-1 INPRO 168BN BLUNOSE SURFACE MOUNT, 5" HEIGHT, COLOR TBD	ST-1 GRIT-COATED STEP COVERS, SURE-FOOT 31AP26 (48" WIDE STEP) & 31AP27 (60" WIDE STEP)
FRP-1 FIBERGLASS RESIN PANEL, WHITE PEBBLE FINISH	
PLWD 3/4" THICK FIRE RATED A-C PLYWOOD	

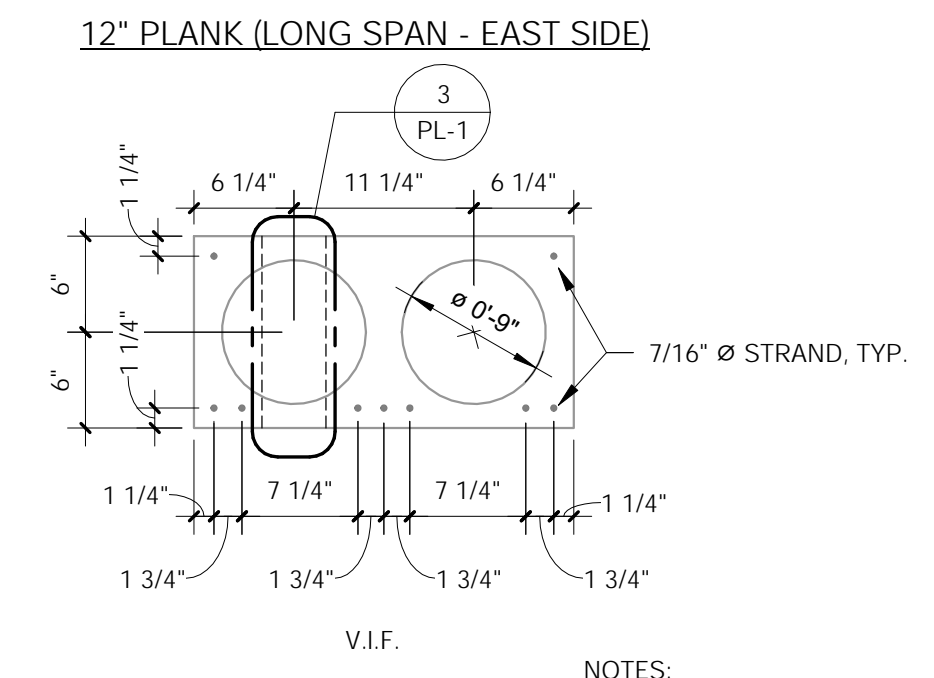


1 FIRST FLOOR FINISH PLAN
 SCALE 1/8" = 1'-0"

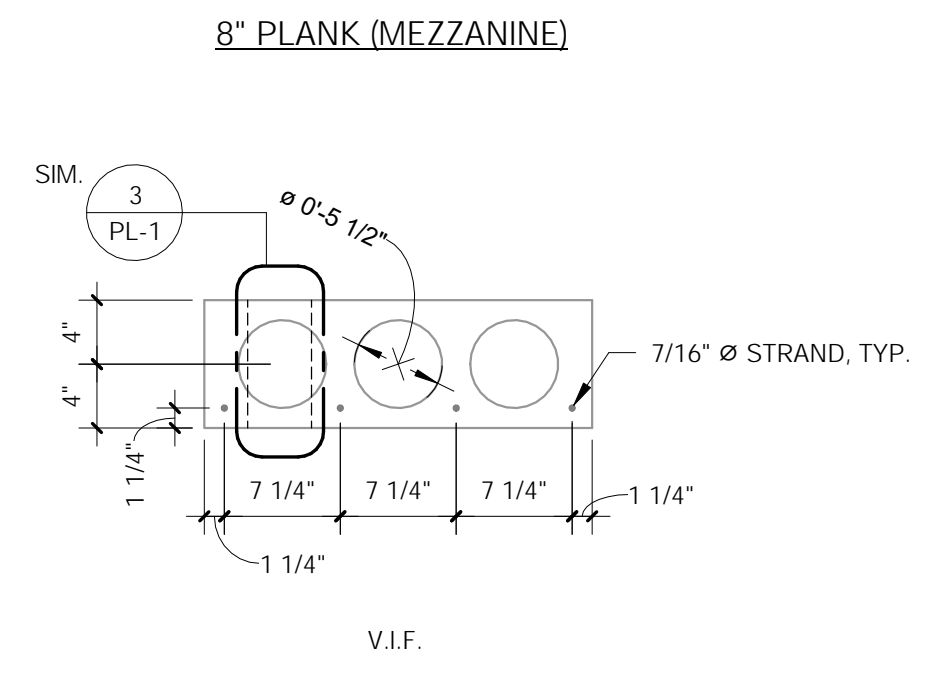
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2 EXISTING CONCRETE PLANK DETAILS
SCALE 1" = 1'-0"

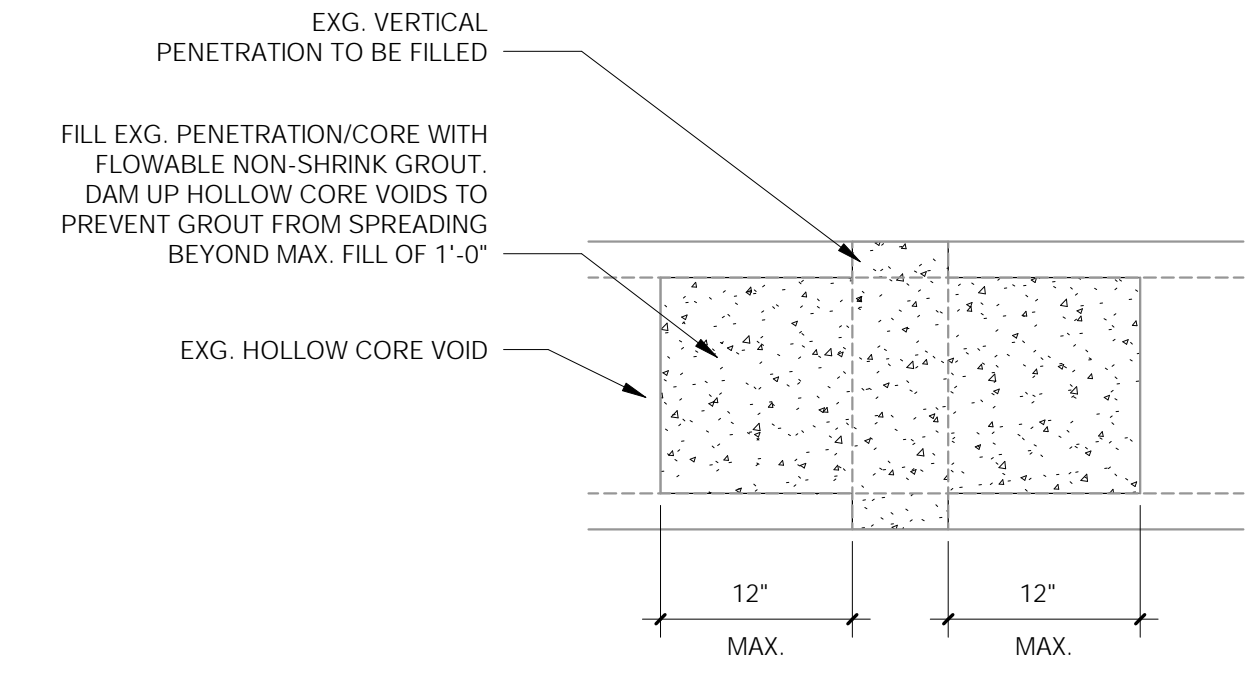


NOTES:
1. DIMENSIONS MAY VARY IN THE FIELD AND MUST BE VERIFIED BEFORE ANY CORING OCCURS.
2. IT IS IMPERATIVE THAT ANY NEW CORES DO NOT CUT OR DAMAGE EXISTING STRANDS.

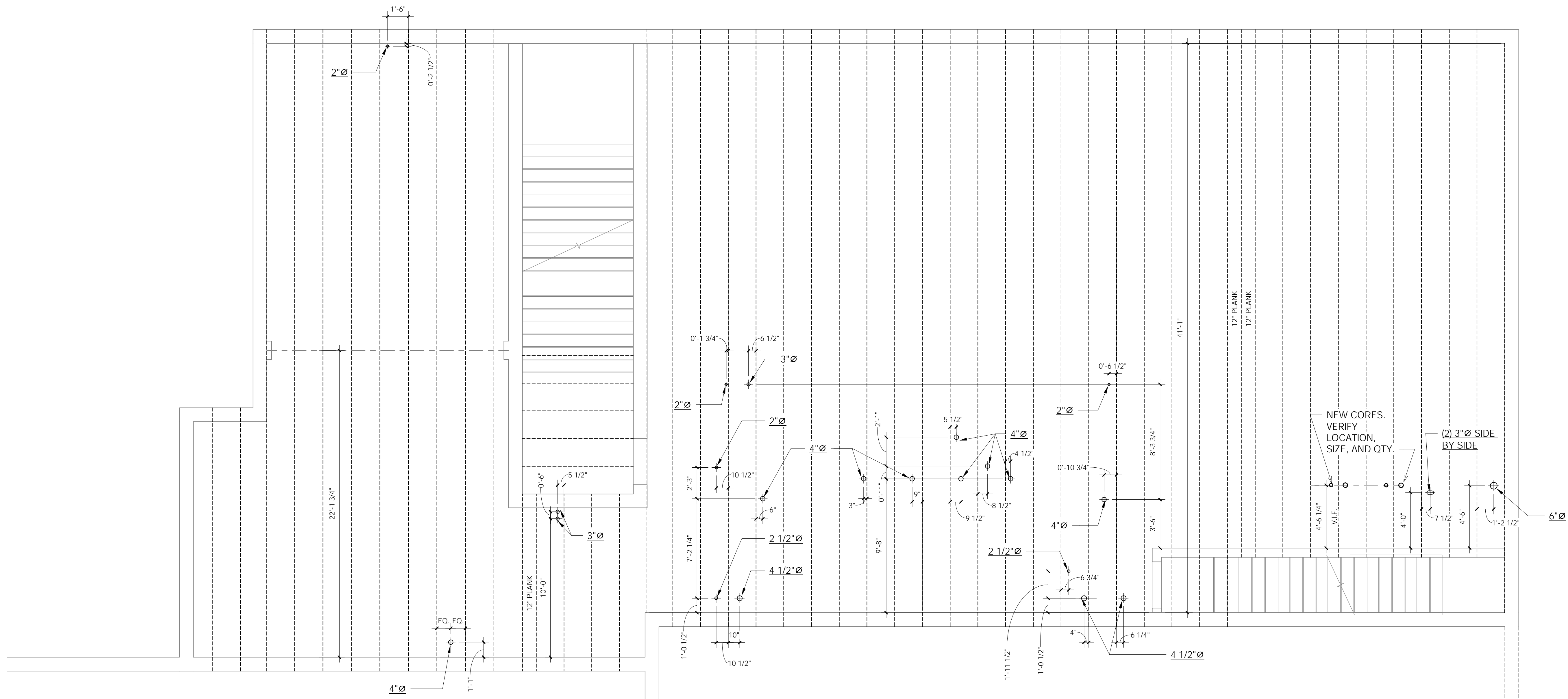


3 TYPICAL CONC. PLANK NEW CORE DETAIL
SCALE 1 1/2" = 1'-0"

MAINTAIN A MIN. 1" CLEARANCE BETWEEN CORES AND THE EXISTING STEEL STRANDS. PRIOR TO CORING CONTRACTOR TO VERIFY W/ GPR FIELD INSPECTION AND PROVIDE SHOP DRAWINGS OF EACH CORE REQUIRED. IF 1" MINIMUM CLEARANCE CANNOT BE MET, CONTRACTOR MUST NOTIFY ARCHITECT IMMEDIATELY AND BEFORE ANY CORING OCCURS.



4 TYPICAL CONC. PLANK EXG. CORE INFILL
SCALE 1 1/2" = 1'-0"



1 EXISTING PRECAST PLANK LAYOUT AND PENETRATIONS
SCALE 1/4" = 1'-0"

PRECAST CONCRETE PLANK NOTES

- THIS DRAWING IS FOR REFERENCE ONLY AND THE CONTRACTOR SHALL VERIFY IN THE FIELD ALL OPENINGS (EXISTING AND NEW) IN THE CONCRETE PLANKS AND NOTIFY THE ARCHITECT OF ANY DISCREPANCIES.
- PRIOR TO ANY CORING, CONTRACTOR SHALL PROVIDE GPR FIELD INSPECTION OF CORE AREA AND PROVIDE SHOP DRAWINGS IDENTIFYING CORE SIZES, STRAND LOCATIONS, AND PIPE SIZES.
- PER ALLOWANCE #4, ALL CORE AREA SHOP DRAWINGS SHALL BE REVIEWED BY BUCHANAN ENGINEERING GROUP, LLC.
- CONTRACTOR SHALL FILL ALL UNUSED HOLES/VOIDS IN THE PRE-CAST PLANKS WITH FLOWABLE NON-SHRINK GROUT, 6" MIN. FROM CENTER OF HOLE, NO MORE THAN 12" FROM CENTER OF HOLE.
- GPRS, WISCONSIN, (262-599-2736, PAUL.MANDELLA@GPRSINC.COM) HAS PROVIDED PRELIMINARY INVESTIGATION AND REPORTS FOR THE CORING. SEE PROJECT MANUAL FOR PREVIEW REPORTS.

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MANAGEMENT REMODEL**
5415 KING JAMES WAY
FITCHBURG, WISCONSIN

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**EXG. PRECAST
PLANK LAYOUT**

PL-1



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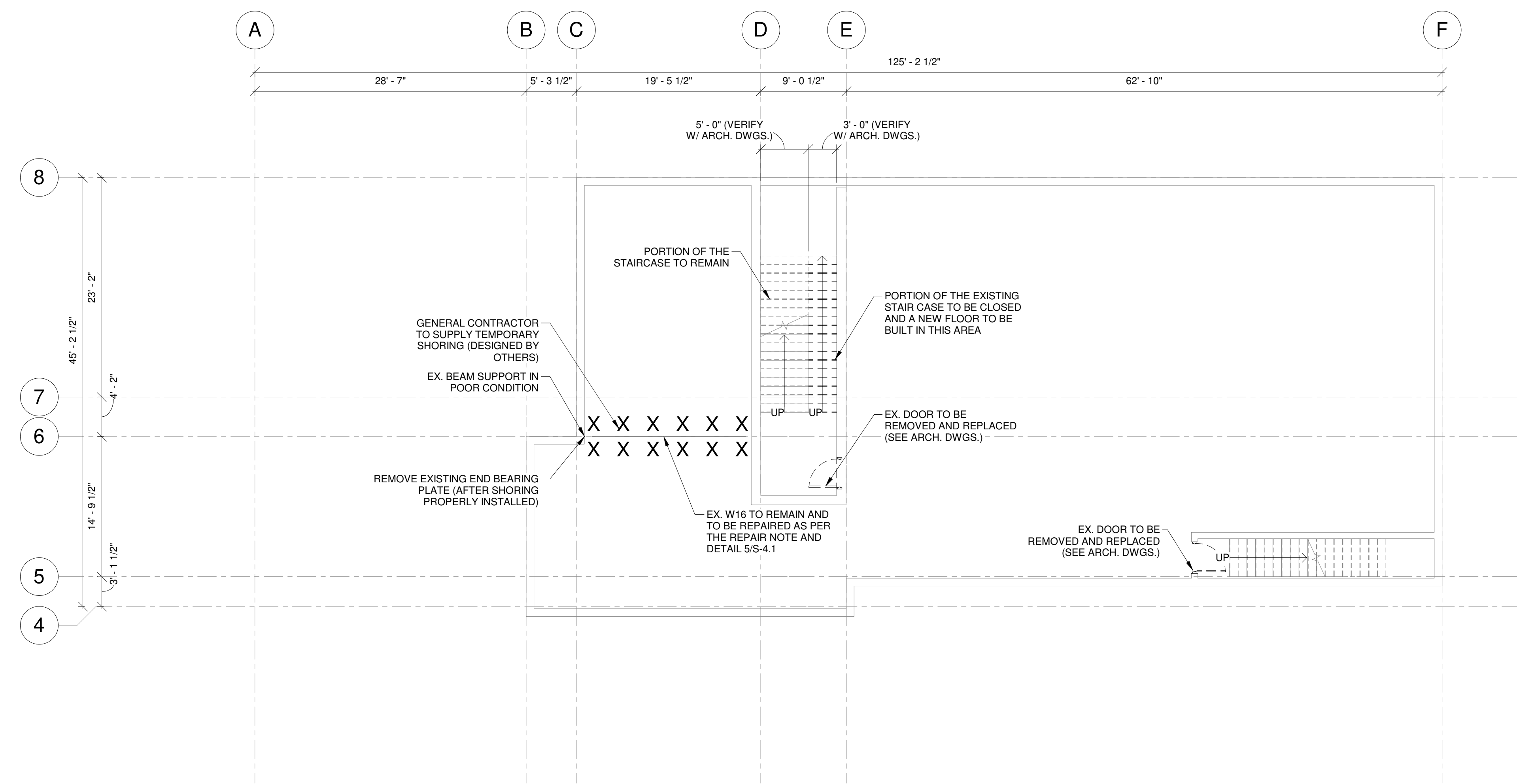
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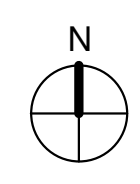
BASEMENT DEMOLITION PLAN
 DS-1.0



STEEL BEAM REPAIR NOTES:

- CONTRACTOR TO PROVIDE TEMPORARY SHORING AT THE STEEL BEAM AREA (TO BE DESIGNED BY OTHERS).
- STEEL BEARING PLATES TO BE REMOVED AND THE CONCRETE SURFACES OF THE BEAM SEATS TO BE CLEANED AND LEVELED.
- NEW STEEL ANGLE W/ ANCHOR RODS TO BE INSTALLED, SEE DETAIL 5/S-4.1.
- EXISTING W16 BEAM TO BE CLEANED AND SURFACE RUST COMPLETELY REMOVED. PRIME AND FINISH PAINT (COORDINATE WITH ARCHITECTURAL DRAWINGS)

1 BASEMENT DEMOLITION PLAN
 1/8" = 1'-0"



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JEFF S. GUTOWSKY
 35509-006
 WISCONSIN
 PROFESSIONAL ENGINEER
 SIGNED: 06/08/2021
 EXP.: 07/31/2022



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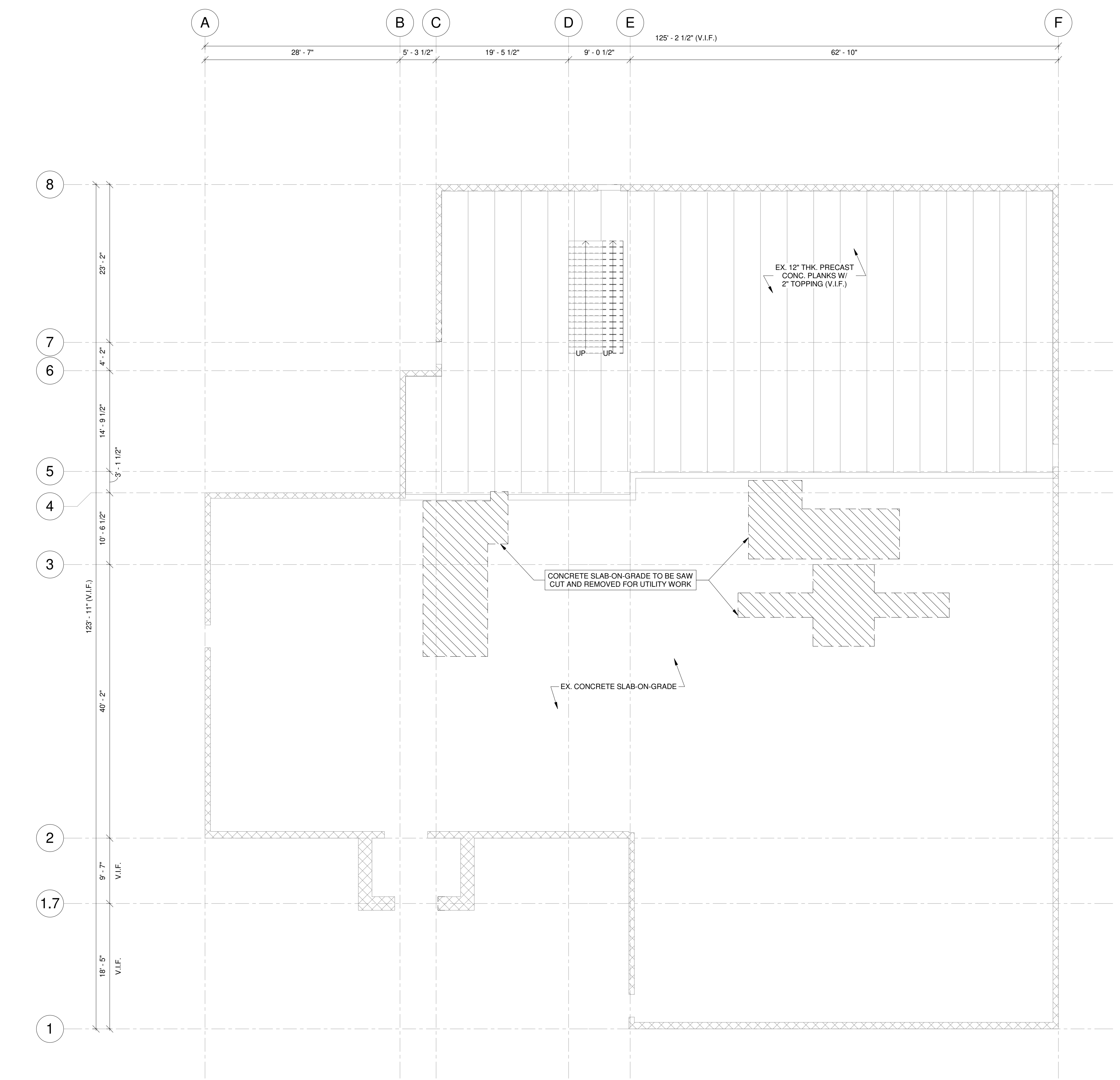
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1ST FLOOR DEMOLITION PLAN
 DS-1.1

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1 1ST FLOOR DEMOLITION PLAN
 1/8" = 1'-0"

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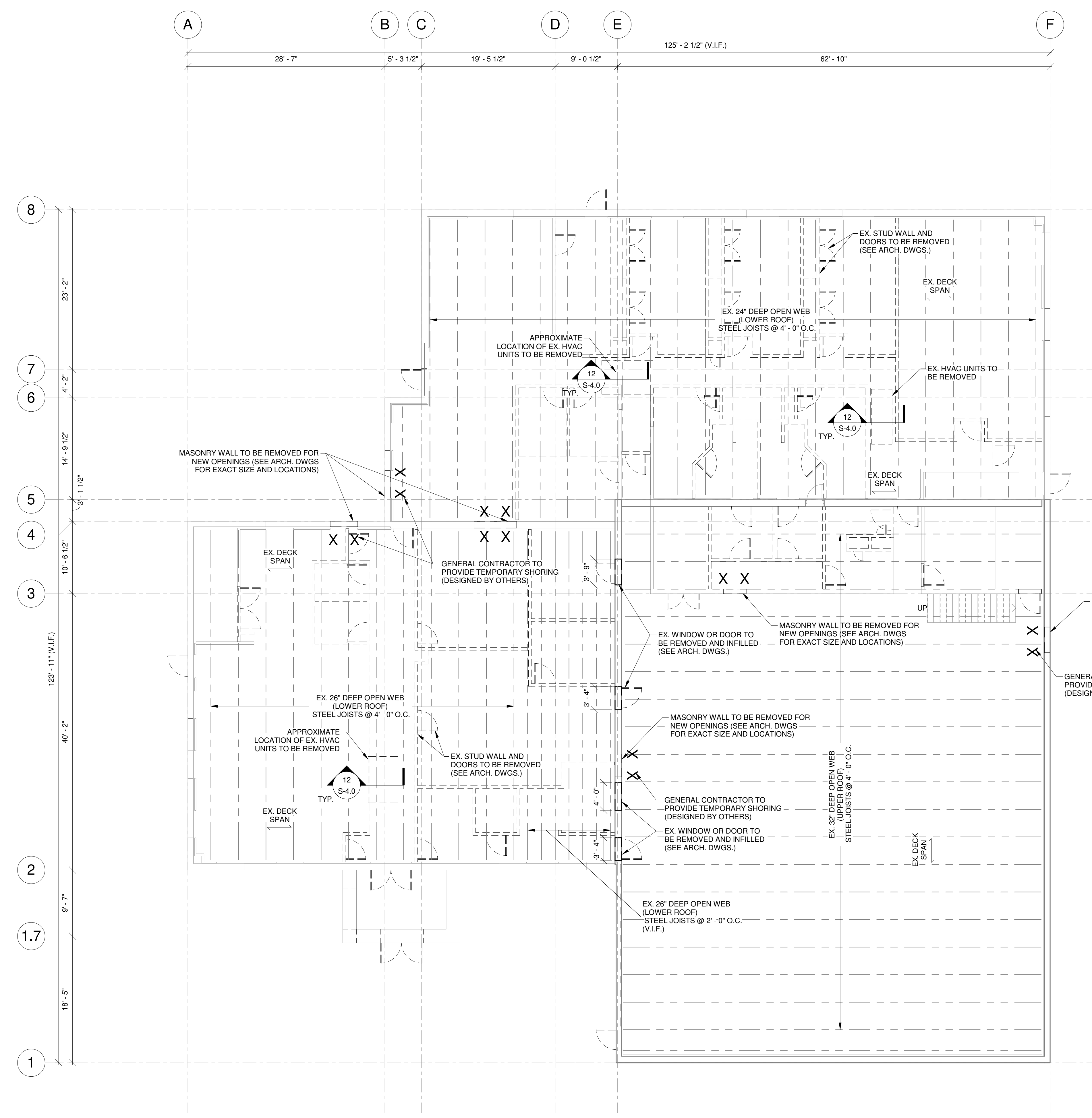
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FRAMING DEMOLITION PLAN
 DS-1.2



DEMOLITION PLAN NOTES

- CONTRACTOR TO VERIFY IN THE FIELD ALL DIMENSIONS AND ELEVATIONS SHOWN ON THE DRAWINGS. IF EXISTING FIELD CONDITIONS DIFFER / VARY FROM THESE DRAWINGS, CONTRACTOR TO NOTIFY STRUCTURAL ENGINEER.
- CONTRACTOR TO VERIFY WITH ARCHITECTURAL DRAWINGS ALL ELEVATIONS AND DIMENSIONS. SEE ARCHITECTURAL DRAWINGS FOR ELEVATIONS AND DIMENSIONS NOT SHOWN.
- CONTRACTOR TO PROVIDE TEMPORARY SHORING BEFORE REMOVAL / DEMOLITION OF EXISTING STRUCTURAL ELEMENTS.
- SEE STRUCTURAL NOTES ON S-0.0 FOR ADDITIONAL INFORMATION.

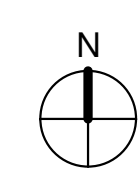
KEY

	INDICATE EX. WALL
	INDICATE EX. WALL TO BE REMOVED
	INDICATES TEMPORARY SHORING
	INDICATES EX. STEEL COLUMN

ABBREVIATIONS

EX.	EXISTING
V.I.F.	VERIFY IN FIELD
EL.	ELEVATION

1 ROOF AND FIRST FLOOR WALL DEMOLITION PLAN
 1/8" = 1'-0"



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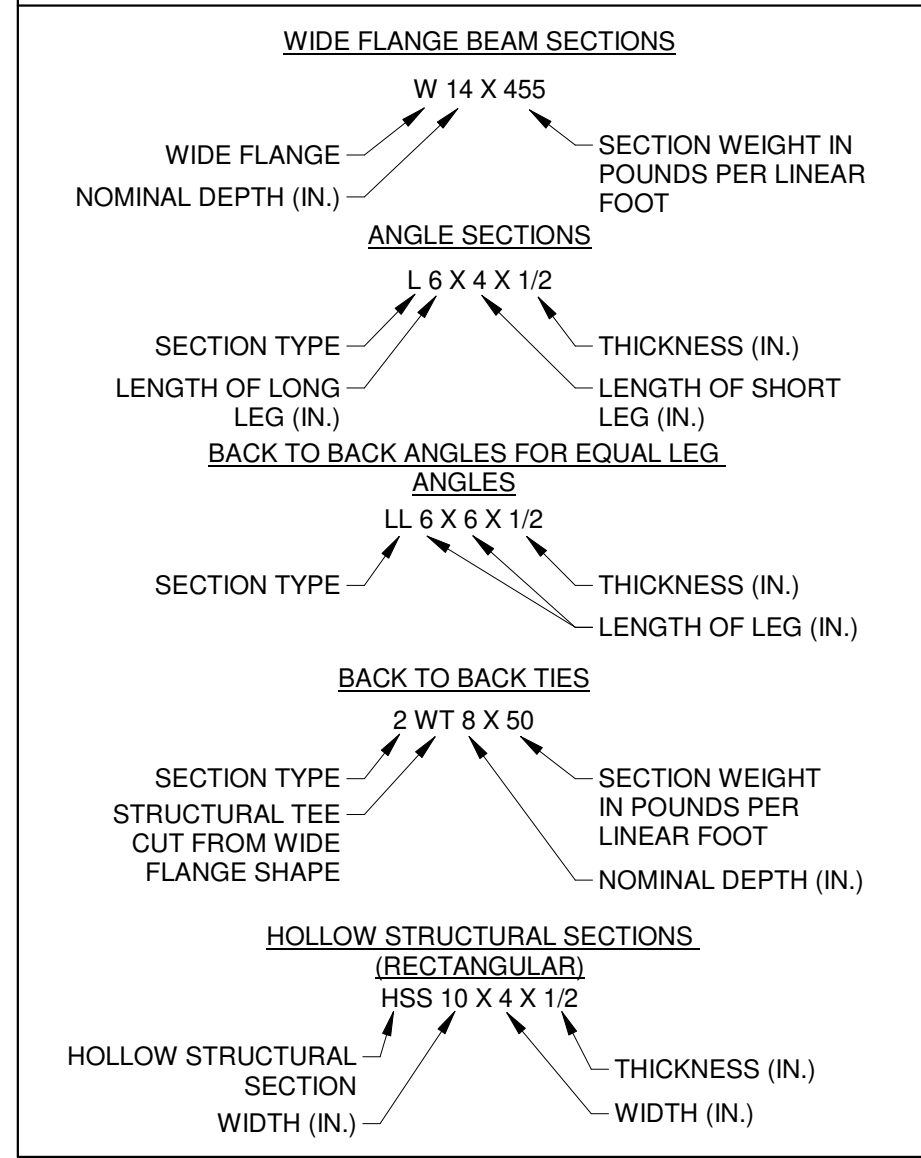
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REINFORCED CONCRETE NOTES

- 1. ALL CAST-IN-PLACE CONCRETE SHALL BE OF THE TYPES AND HAVING MINIMUM 28-DAY COMPRESSIVE STRENGTHS AS FOLLOWS:
- FOOTINGS AND FOUNDATION WALLS: 4,000 PSI
- SLABS ON GRADES: 4,000 PSI
- MISCELLANEOUS FILLS AND PADS: 3,000 PSI
2. ALL CONCRETE SHALL CONTAIN AN APPROVED WATER REDUCING PLASTICIZING ADMIXTURE...
3. ALL REINFORCING BARS SHALL BE NEW BILLET STEEL CONFORMING TO THE STANDARDS OF ASTM A615...
4. ALL WELDED WIRE FABRIC SHALL CONFORM TO THE STANDARDS OF ASTM A185.
5. ALL CONCRETE REINFORCEMENT SHALL BE DETAILED, FABRICATED, LABELED, SUPPORTED, SPACED IN FORMS, AND SECURED IN PLACE...
6. THE CONTRACTOR SHALL SUBMIT CHECKED SHOP DRAWINGS SHOWING REINFORCING DETAILS...
7. THE CONTRACTOR SHALL SUBMIT SHOP DRAWINGS SHOWING THE LOCATION OF ALL CONSTRUCTION JOINTS, CURBS, SLAB DEPRESSIONS, SLEEVES, OPENINGS, AND EMBEDMENTS...
8. ALL REINFORCING SPLICES SHALL CONFORM TO THE REQUIREMENTS OF ACI 318, BUT IN NO CASE SHALL BE LESS THAN 48 BAR DIAMETERS...
9. ALL WELDED WIRE FABRIC SHALL BE LAPPED TWO (2) FULL MESH PANELS AND TIED SECURELY.
10. WHERE REQUIRED, DOWELS SHALL MATCH THE SIZE AND NUMBER OF MAIN REINFORCING...
11. ALL WALLS AND STRUCTURAL SLABS SHALL BE REINFORCED WITH MINIMUM NO. 4 AT 12" O.C. EACH WAY...
12. ADDITIONAL BARS SHALL BE PROVIDED AROUND ALL FLOOR AND WALL OPENINGS...
13. CONSTRUCTION JOINTS IN ALL WALLS SHALL NOT BE FURTHER APART THAN 60 FEET IN ANY DIRECTION.
14. ALL CONSTRUCTION JOINTS SHALL BE WIRE BRUSHED, CLEANED AND MOISTENED IMMEDIATELY PRIOR TO PLACING NEW CONCRETE.
15. PLACE ALL SLABS ON GRADE IN A CHECKERBOARD FASHION BETWEEN CONSTRUCTION JOINTS...
16. NO CALCIUM CHLORIDE SHALL BE USED IN ANY CONCRETE.
17. ALL BAR SUPPORTS SHALL BE GALVANIZED...
18. FOOTINGS AND WALLS SHALL NOT BE SLEEVED OR BOXED-OUT OR HAVE THE REINFORCING INTERRUPTED...
19. SEE ARCHITECTURAL DRAWINGS FOR TYPE AND LOCATION OF ALL FLOOR FINISHES...
20. SEE ARCHITECTURAL, HVAC, ELECTRICAL, AND PLUMBING DRAWINGS FOR ADDITIONAL WALL/SLAB OPENINGS.
21. PROVIDE APPROVED CURING COMPOUND AND SEALER FOR THE TOP SURFACE OF ALL SLAB WORK...
22. OPENINGS:
A. OPENING SHOWN ARE FOR BIDDING PURPOSES ONLY...
B. IF ANY OPENING NOT SHOWN ON THE PLAN IS REQUIRED...
C. PROVIDE TWO #5 BARS AROUND ALL SLAB AND WALL OPENINGS...
23. FOOTINGS AND PIERS:
A. PROVIDE DOWELS IN FOOTINGS TO MATCH VERTICAL PIER OR WALL REINFORCING...
B. PROVIDE CORNER BARS AT WALL CORNERS...
C. CAST IN CONTINUOUS DOVETAIL ANCHOR SLOTS...
D. PROVIDE LEAN CONCRETE...
24. SPLICES - UNLESS NOTED OTHERWISE, MINIMUM LAB SPLICE LENGTHS SHALL BE AS FOLLOWS:
A. VERTICAL BARS IN PIERS...
B. HORIZONTAL BARS IN SLABS & FOOTINGS...
25. CONSTRUCTION JOINTS:
A. CONSTRUCTION JOINTS ARE PERMITTED ONLY WHERE SHOWN ON THE CONTRACT DRAWINGS...
26. CONCRETE COVER: UNLESS NOTED OTHERWISE, DETAIL REINFORCING TO PROVIDE CONCRETE COVER AS FOLLOWS:
A. CONCRETE CAST AGAINST AND PERMANENTLY EXPOSED TO EARTH: 3 INCHES
B. CONCRETE EXPOSED TO EARTH OR WEATHER: 2 INCHES
C. SLABS, JOINTS, AND WALLS NOT EXPOSED TO EARTH OR WEATHER: 1-1/2 INCHES
D. BEAMS, COLUMNS, PEDESTALS, AND TENSION TIES NOT EXPOSED TO EARTH OR WEATHER: 1-1/2 INCHES
27. MISCELLANEOUS:
A. GROUT UNDER BEARING PLATES, SETTING PLATES, AND COLUMN BASE PLATES...
28. CONCRETE CUTTING AND CORING:
A. CONCRETE CUTTING AND CORING METHODS ARE "WAYS AND MEANS" OF CONSTRUCTION...

ABBREVIATIONS table listing various construction terms and their abbreviations. Columns include abbreviations and full names for items like ANGLE, FLOOR DRAIN, PERPENDICULAR, etc.

STEEL FRAMING NOTATION



SPECIAL INSPECTION AND TESTING (IBC 2015 - 1704-1706)

- 1. ALL TESTS AND INSPECTIONS SHALL BE PERFORMED BY AN INDEPENDENT TESTING AND INSPECTION AGENCY...
2. THE SPECIAL INSPECTOR SHALL FURNISH INSPECTION REPORTS TO THE BUILDING OFFICIAL...
3. THE SPECIAL INSPECTOR SHALL SUBMIT A FINAL SIGNED REPORT STATING WHETHER THE WORK REQUIRING SPECIAL INSPECTION WAS...
4. JOB SITE VISITS BY THE STRUCTURAL ENGINEER OF RECORD DOES NOT CONSTITUTE AN OFFICIAL SPECIAL INSPECTION.
5. THE FOLLOWING ITEMS MARKED "X" REQUIRE SPECIAL INSPECTIONS...

Main inspection table with columns for Verification and Inspection, Inspection Frequency, and Item details. Includes items like Structural Steel - 1705.2.1, Masonry Construction - Level B - 1705.4, etc.



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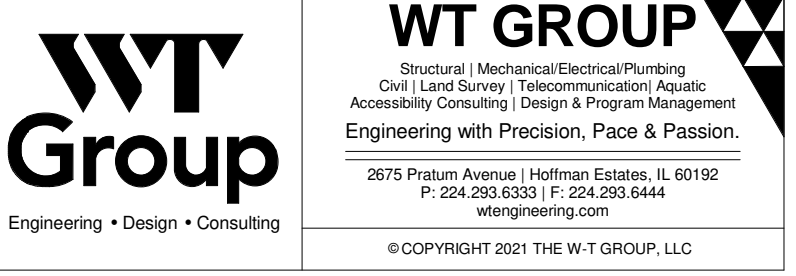
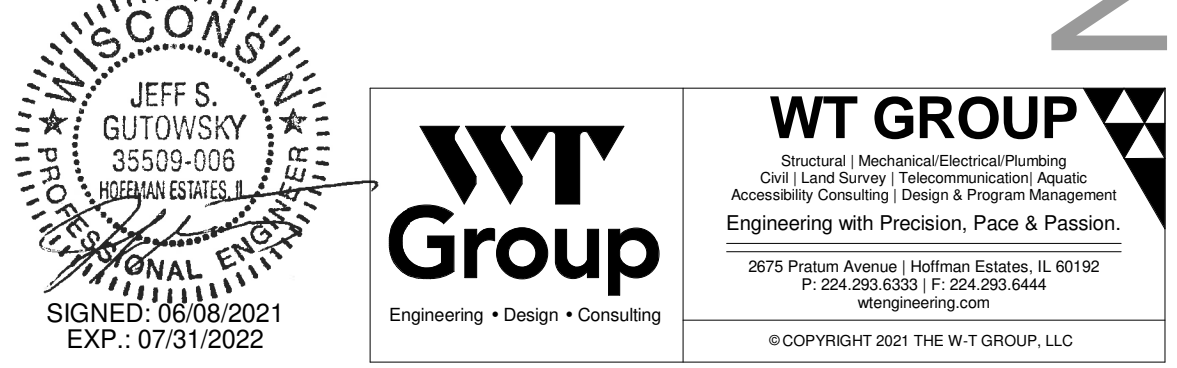
DANE COUNTY EMERGENCY MANAGEMENT REMODEL 5415 KING JAMES WAY FITCHBURG, WISCONSIN

CLIENT APPROVAL form with checkboxes for APPROVED and APPROVED AS NOTED, and a field for APPROVED BY / DATE.

ISSUE RECORD table with columns for ID, DESCRIPTION, and DATE. Includes entries for 1. ADDR, 2. 90% SET, 3. 100% FOR REVIEW, 4. HVAC REDESIGN, 5. ISSUE FOR BID.

CHECKED BY, DRAWN BY, DATE, PROJECT NUMBER form. Includes fields for JSG, AD, DATE 6/6/2021 11:47:06 AM, and PROJECT NUMBER 2000765M.

STRUCTURAL NOTES S-0.1



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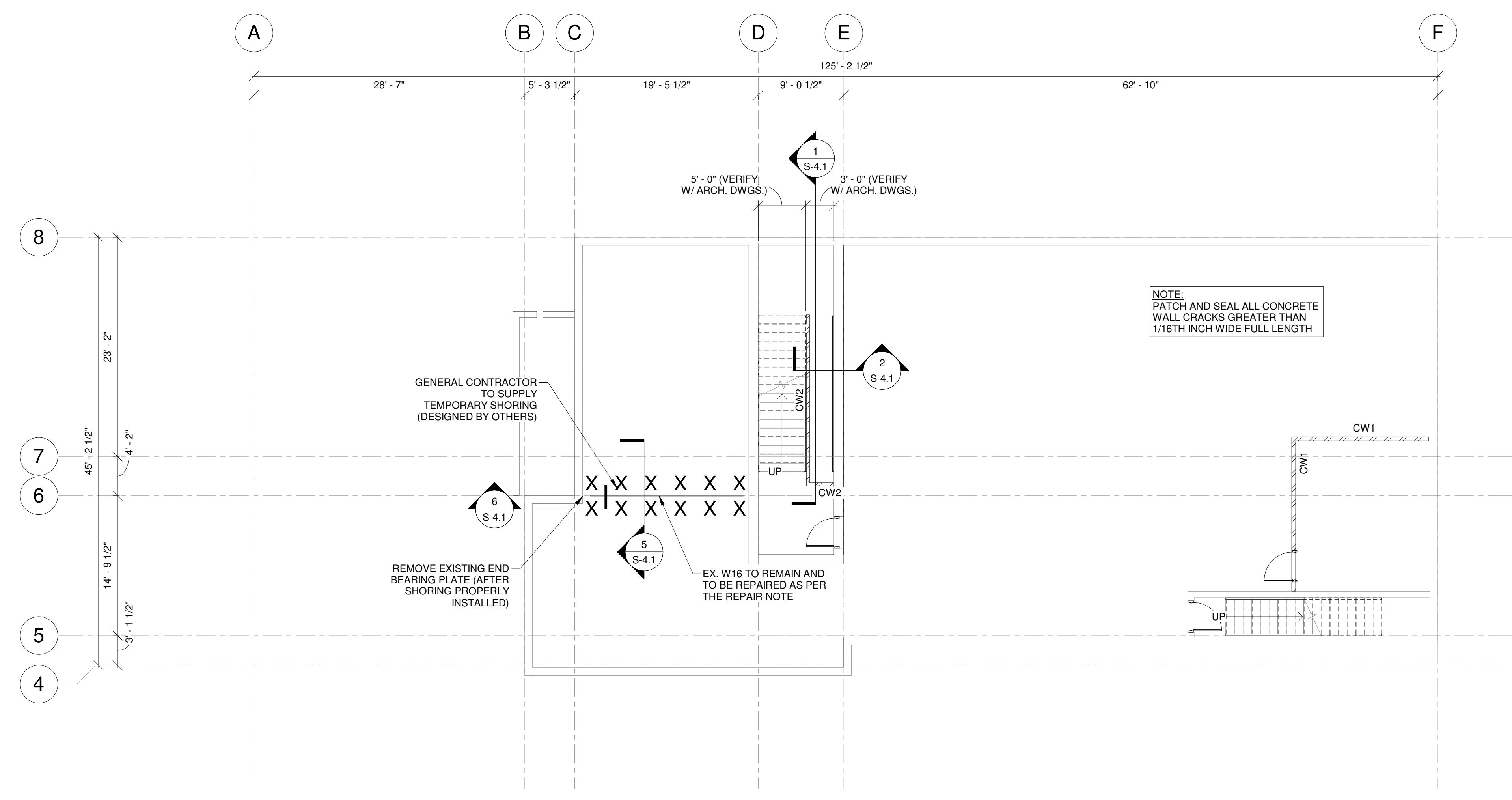
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BASEMENT PLAN
 S-1.0



STEEL BEAM REPAIR NOTES:

- CONTRACTOR TO PROVIDE TEMPORARY SHORING AT THE STEEL BEAM AREA (TO BE DESIGNED BY OTHERS).
- STEEL BEARING PLATES TO BE REMOVED AND THE CONCRETE SURFACES OF THE BEAM SEATS TO BE CLEANED AND LEVELED.
- NEW STEEL ANGLE W/ ANCHOR RODS TO BE INSTALLED. SEE DETAIL 5/S-4.1.
- EXISTING W16 BEAM TO BE CLEANED AND SURFACE RUST COMPLETELY REMOVED. PRIME AND FINISH PAINT (COORDINATE WITH ARCHITECTURAL DRAWINGS)

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

COLD-FORMED STEEL WALL SCHEDULE (SEE DETAIL 5/S-4.0)

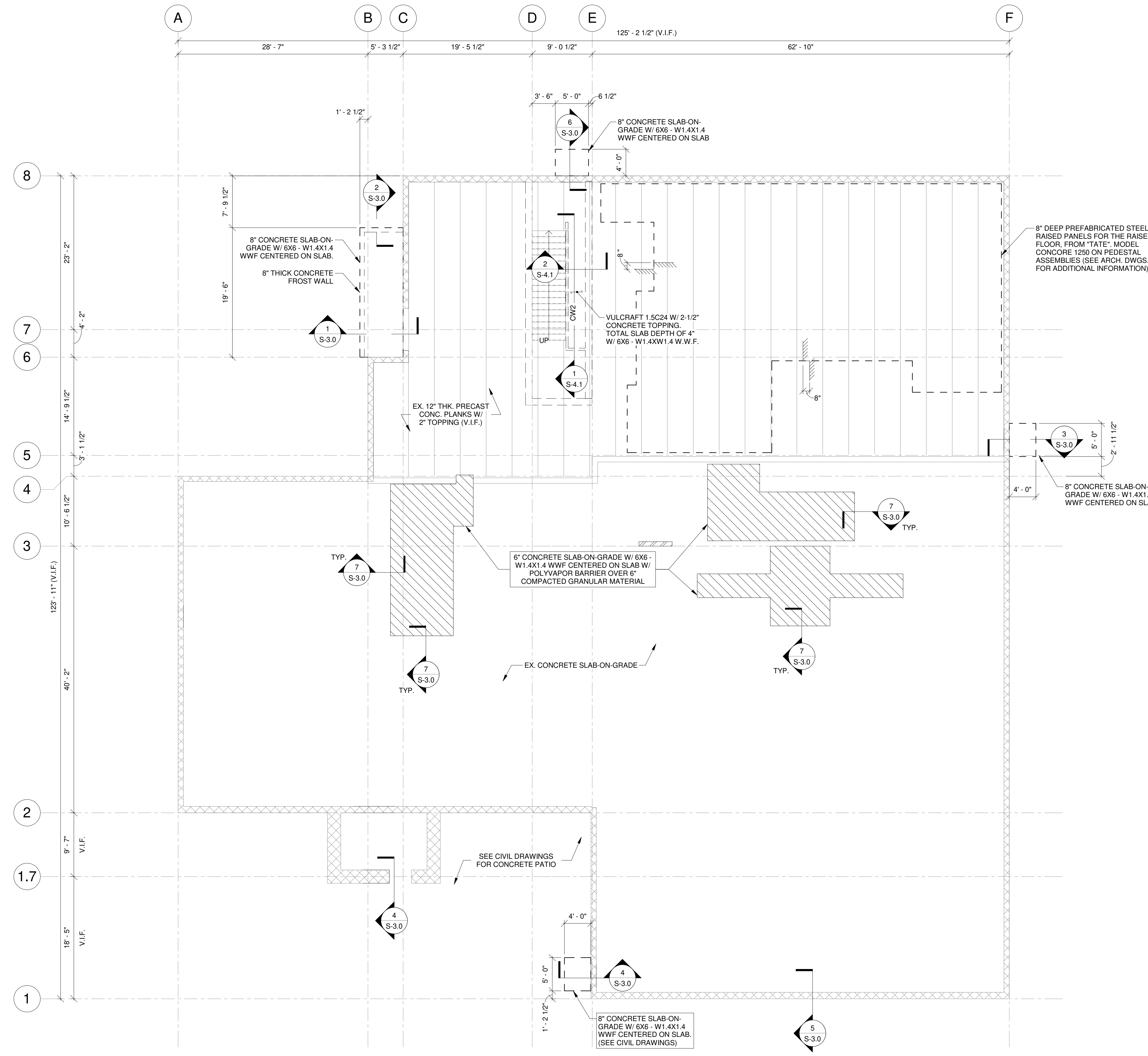
MK.	STUD SIZE	BOTTOM TRACK	SILL ANCHORAGE	SHEATHING MATERIAL	TOP TRACK	REMARKS
CW1	400S125-68 CFS STUDS @ 16" O.C.	CONT. 400T125-33	3/8" DIA. SIMPSON TITEN-HD SCREW ANCHOR @ 48" O.C. MAX., W/ MIN. 2 1/2" EMBEDMENT	5/8" GYPSUM BOARD	CONT. 400T200-33	SEE ARCH. FOR WALL FINISH
CW2	400S162-68 CFS STUDS @ 16" O.C.	CONT. 400T125-33	3/8" DIA. SIMPSON TITEN-HD SCREW ANCHOR @ 48" O.C. MAX., W/ MIN. 2 1/2" EMBEDMENT	5/8" GYPSUM BOARD	CONT. 400T200-33	SEE ARCH. FOR WALL FINISH
CW3	550S162-68 CFS STUDS @ 16" O.C.	CONT. 550T200-43	3/8" DIA. SIMPSON TITEN-HD SCREW ANCHOR @ 48" O.C. MAX., W/ MIN. 2 1/2" EMBEDMENT	5/8" GYPSUM BOARD	CONT. 550T200-43	SEE ARCH. FOR WALL FINISH

JEFF S. GUTOWSKY
 35509-006
 PROFESSIONAL ENGINEER
 WISCONSIN
 SIGNED: 06/08/2021
 EXP.: 07/31/2022



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 wt@wtgroup.com
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NOTE:

1. CONTRACTOR SHALL BE RESPONSIBLE TO LOCATE EXISTING CABLE STRANDS IN THE FLOOR PLANKS AND NOTIFY THE PRECAST CONCRETE STRUCTURAL ENGINEER PRIOR TO ANY CORING OR CUTTING OF THE PRECAST CONCRETE PLANKS.
2. CONTRACTOR TO REFER TO DRAWING SHEET PL-1 FOR ANY EXISTING PRECAST CONCRETE PLANK REPAIR, CORE-DRILLED OR MODIFIED.

1 FIRST FLOOR PLAN
1/8" = 1'-0"

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FIRST FLOOR PLAN
S-1.1

JEFF S. GUTOWSKY
35509-006
WISCONSIN
REGISTERED PROFESSIONAL ENGINEER
SIGNED: 06/08/2021
EXP.: 07/31/2022



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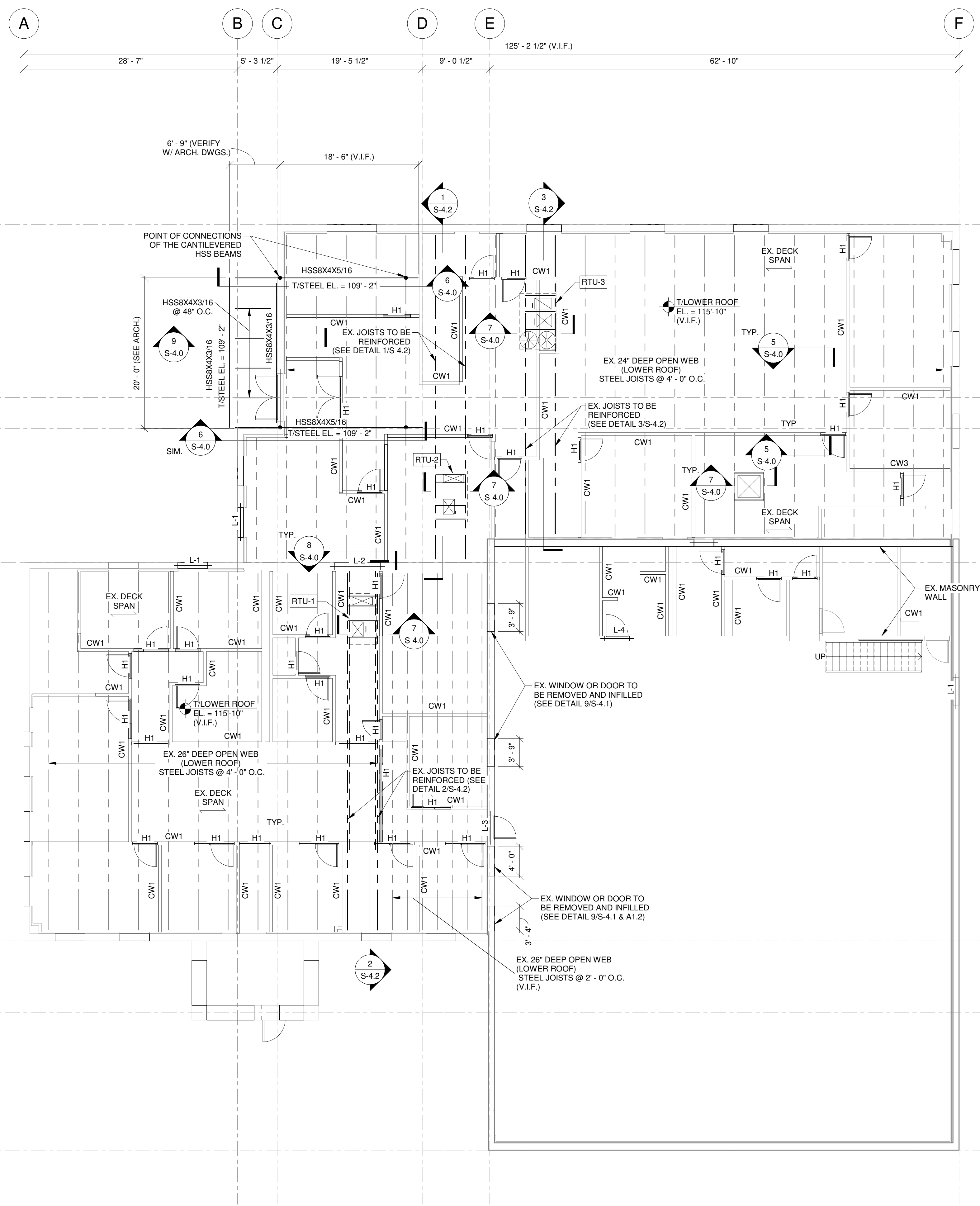
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LOWER ROOF FRAMING PLAN
 S-2.0



ROOF TOP EQUIPMENT SCHEDULE (SEE DETAIL 7/S-4.0)

NOTE: VERIFY ROOF TOP EQUIPMENT WEIGHTS AND LOCATIONS WITH ARCHITECTURAL AND M.E.P. DRAWINGS

MK.	LENGTH	WIDTH	RTU WEIGHT (LBS.) + CURB
RTU-1	6' - 10"	3' - 7"	1245 + 225 = 1470
RTU-2	6' - 10"	3' - 7"	960 + 180 = 1140
RTU-3	7' - 5"	4' - 11"	1395 + 235 = 1630

LINTEL SCHEDULE (SEE DETAIL 8/S-4.0)

MK.	SIZE	OPENING LENGTH	LINTEL PLATE	LINTEL PLATE CONNECTION	BEARING PLATE	BEARING PLATE CONNECTION	WALL BEARING EA. END	SECTION
L-1	2L6X4X3/8LLBB	6' - 0" MAX.	10" X 3/8" X 1/4" FILLET WELD OPENING LENGTH 2" LONG @ 12" O.C.	1/4" FILLET WELD	9 1/2" X 8" X 5/16"	1/4" FILLET WELD (8" LONG)	8" MIN. EA. END	
L-2	W8X15	12' - 0" MAX.	10" X 3/8" X 1/4" FILLET WELD OPENING LENGTH 2" LONG @ 12" O.C.	1/4" FILLET WELD	9 1/2" X 8" X 5/16"	1/4" FILLET WELD (8" LONG)	8" MIN. EA. END	
L-3	2L6X4X3/8LLBB	6' - 0" MAX.	10" X 3/8" X 1/4" FILLET WELD OPENING LENGTH 2" LONG @ 12" O.C.	1/4" FILLET WELD	9 1/2" X 8" X 5/16"	1/4" FILLET WELD (8" LONG)	8" MIN. EA. END	
L-4	2L6X4X3/8LLBB	6' - 0" MAX.	8" X 3/8" X 1/4" FILLET WELD OPENING LENGTH 2" LONG @ 12" O.C.	1/4" FILLET WELD	7 1/2" X 8" X 5/16"	1/4" FILLET WELD (8" LONG)	8" MIN. EA. END	

COLD-FORMED STEEL HEADER SCHEDULE (SEE DETAIL 3&4/S-4.0)

MK.	SIZE AND MATERIAL	OPENING SILL	SUPPORTS				SECTION
			INTERCONNECTION SPACING	FULL HEIGHT KING STUD	JACK STUD	BOTTOM TRACK	
H1	400T200-43 (33 KSI)	400T200-33	--	(2) 400S125-33 BACK-TO-BACK	--	--	

COLD-FORMED STEEL WALL SCHEDULE (SEE DETAIL 5/S-4.0)

MK.	STUD SIZE	BOTTOM TRACK	SILL ANCHORAGE	SHEATHING MATERIAL	TOP TRACK	REMARKS
CW1	400S125-68 CFS STUDS @ 16" O.C.	CONT. 400T125-33	3/8" DIA. SIMPSON TITEN-HD SCREW ANCHOR @ 48" O.C. MAX., W/ MIN. 2 1/2" EMBEDMENT	5/8" GYPSUM BOARD	CONT. 400T200-33	SEE ARCH. FOR WALL FINISH
CW2	400S162-68 CFS STUDS @ 16" O.C.	CONT. 400T125-33	3/8" DIA. SIMPSON TITEN-HD SCREW ANCHOR @ 48" O.C. MAX., W/ MIN. 2 1/2" EMBEDMENT	5/8" GYPSUM BOARD	CONT. 400T200-33	SEE ARCH. FOR WALL FINISH
CW3	550S162-68 CFS STUDS @ 16" O.C.	CONT. 550T200-43	3/8" DIA. SIMPSON TITEN-HD SCREW ANCHOR @ 48" O.C. MAX., W/ MIN. 2 1/2" EMBEDMENT	5/8" GYPSUM BOARD	CONT. 550T200-43	SEE ARCH. FOR WALL FINISH

- ROOF FRAMING PLAN NOTES**
- T/ROOF EL. = VARIES (SEE ARCH. DWGS.)
 - CONTRACTOR TO VERIFY WITH ARCHITECTURAL DRAWINGS ALL ELEVATIONS AND DIMENSIONS. SEE ARCHITECTURAL DRAWINGS FOR ELEVATIONS, OPENINGS AND DIMENSIONS NOT SHOWN.
 - CONTRACTOR TO VERIFY ALL DIMENSIONS PRIOR TO FABRICATION, CONSTRUCTION OR ERECTION. THE CONTRACTOR SHALL ASSUME RESPONSIBILITY FOR ANY DISCREPANCIES.
 - CONTRACTOR TO COORDINATE WITH ARCHITECTURAL AND MECHANICAL PLANS FOR ROOF DRAINS AND ROOF TOP UNIT EXACT LOCATIONS AND DETAILS. GC TO NOTIFY ARCHITECT/ENGINEER OF RECORD IF LOADS TOP EXCEED THOSE SHOWN IN ROOF TOP EQUIPMENT SCHEDULE.
 - CONTRACTOR TO COORDINATE SIZE AND LOCATION OF ALL MECHANICAL/ELECTRICAL OPENINGS THAT REQUIRE FRAMING (WHETHER SPECIFIED OR NOT). ALL FRAMING MUST BE APPROVED BY THE STRUCTURAL ENGINEER PRIOR TO CONSTRUCTION.
 - VERIFY ALL ROOF OPENINGS WITH ARCHITECTURAL DRAWINGS.
 - VERIFY ALL MECHANICAL OPENINGS WITH M.E.P. DRAWINGS.
 - THE CONTRACTOR SHALL REPLACE ANY ITEMS DAMAGED DURING CONSTRUCTION.
 - WEIGHTS OF ALL ROOFTOP UNITS SHALL BE VERIFIED PRIOR TO FABRICATION OF STEEL.
 - SEE S-0.0 FOR GENERAL STRUCTURAL NOTES AND ADDITIONAL INFORMATION.
 - SEE DRAWINGS SHEETS S-4.0, S-4.1, AND S-4.2 FOR ADDITIONAL INFORMATION.

KEY

	INDICATES EX. WALL
	INDICATES NEW WALL
	INDICATES LINTEL OR HEADER
	INDICATES STEEL COLUMN
	INDICATES WOOD COLUMN
	INDICATES STEEL TRUSS
	INDICATES OPENING

ABBREVIATIONS

EL.	ELEVATION
L	TOP OF
T/	BOTTOM OF
B/	EACH
EA.	TYPICAL
CFS	COLD-FORMED STEEL
CW	COLD-FORMED STEEL WALL
P	BEARING PLATE
RD	ROOF DECK
H	HEADER
SC	STEEL COLUMN
MK.	MARK
RT	ROOF TOP UNIT
W/	WITH

1 LOWER ROOF FRAMING PLAN
 1/8" = 1'-0"

JEFF S. GUTOWSKY
 35509-006
 WISCONSIN ESTIMATOR
 PROFESSIONAL ENGINEER
 SIGNED: 06/08/2021
 EXP.: 07/31/2022

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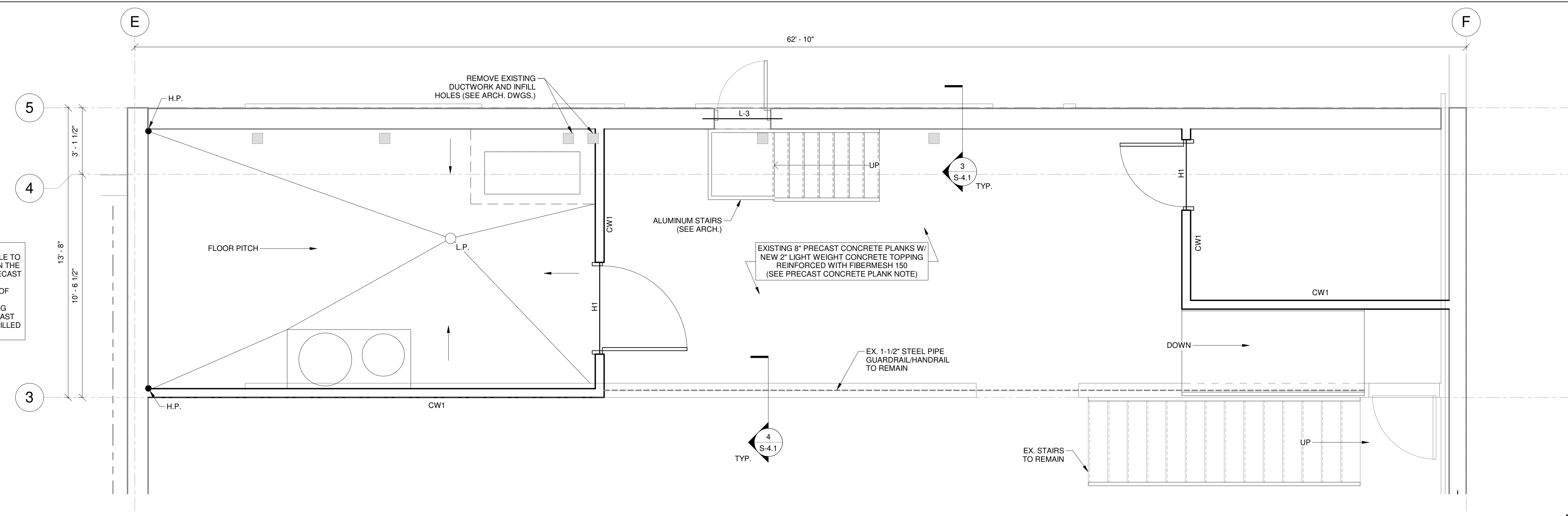
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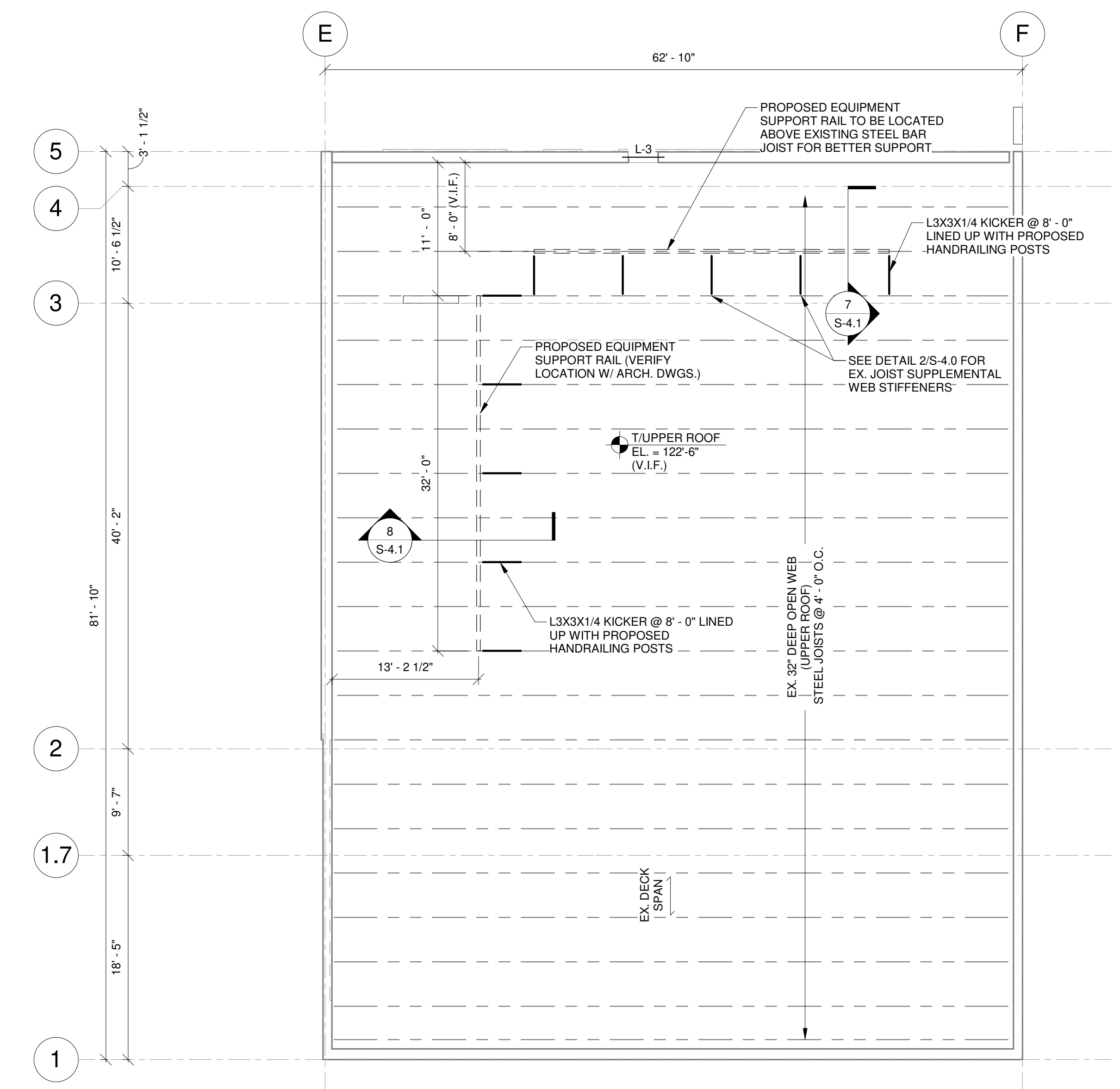
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MEZZANINE AND UPPER ROOF PLANS
S-2.1



1 MEZZANINE PLAN
 3/8" = 1'-0"

NOTE:
 1. CONTRACTOR SHALL BE RESPONSIBLE TO LOCATE EXISTING CABLE STRANDS IN THE FLOOR PLANKS AND NOTIFY THE PRECAST CONCRETE STRUCTURAL ENGINEER PRIOR TO ANY CORING OR CUTTING OF THE PRECAST CONCRETE PLANKS.
 2. CONTRACTOR TO REFER TO DRAWING SHEET PL-1 FOR ANY EXISTING PRECAST CONCRETE PLANK REPAIR, CORE-DRILLED OR MODIFIED.



2 UPPER ROOF PLAN
 1/8" = 1'-0"

LINTEL SCHEDULE (SEE DETAIL 8/S-4.0)

MK.	SIZE	OPENING LENGTH	LINTEL PLATE	LINTEL PLATE CONNECTION	BEARING PLATE	BEARING PLATE CONNECTION	WALL BEARING EA. END	SECTION
L-1	2L6X4X3/8LLBB	6'-0" MAX.	10" X 3/8" X OPENING LENGTH	1/4" FILLET WELD 2" LONG @ 12" O.C.	9 1/2" X 8" X 5/16"	1/4" FILLET WELD (8" LONG)	8" MIN. EA. END	
L-2	W8X15	12'-0" MAX.	10" X 3/8" X OPENING LENGTH	1/4" FILLET WELD 2" LONG @ 12" O.C.	9 1/2" X 8" X 5/16"	1/4" FILLET WELD (8" LONG)	8" MIN. EA. END	
L-3	2L6X4X3/8LLBB	6'-0" MAX.	12" X 3/8" X OPENING LENGTH	1/4" FILLET WELD 2" LONG @ 12" O.C.	9 1/2" X 8" X 5/16"	1/4" FILLET WELD (8" LONG)	8" MIN. EA. END	
L-4	2L6X4X3/8LLBB	6'-0" MAX.	8" X 3/8" X OPENING LENGTH	1/4" FILLET WELD 2" LONG @ 12" O.C.	7 1/2" X 8" X 5/16"	1/4" FILLET WELD (8" LONG)	8" MIN. EA. END	

CONTRACTOR SHALL CONFIRM AND VERIFY FINAL SIZE, LOCATION, AND HEIGHT OF EQUIPMENT SUPPORT RAIL WITH OWNER PRIOR TO INSTALLATION.

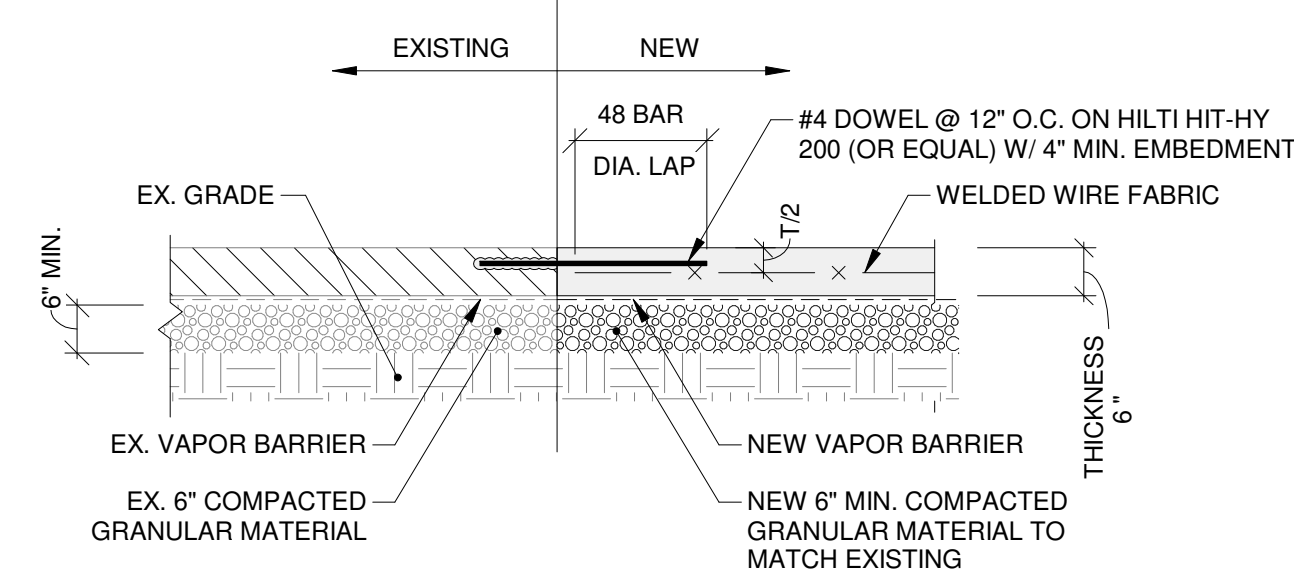
PRECAST CONCRETE PLANK NOTE:
 THE NEW CORE-DRILLED OPENINGS ON EXISTING PRECAST CONCRETE PLANKS FOR 3" DIA. AND 4" DIA. DRAIN PIPES AND CONDUIT SLEEVES, SHALL BE PERFORMED AFTER A NON-DESTRUCTIVE EXISTING (GPR / X-RAY) IS PERFORMED AND THE EXISTING STRAND LOCATIONS ARE VERIFIED, NOT TO EXPOSE, CUT OR DAMAGE ANY EXISTING PRECAST PLANK STRAND REINFORCEMENTS AND PRECAST CONCRETE STRUCTURAL ENGINEER IS NOTIFIED PRIOR TO ANY CORING OPERATIONS.

JEFF S. GUTOWSKY
 35509-006
 LICENSED PROFESSIONAL ENGINEER
 WISCONSIN
 SIGNED: 06/08/2021
 EXP.: 07/31/2022

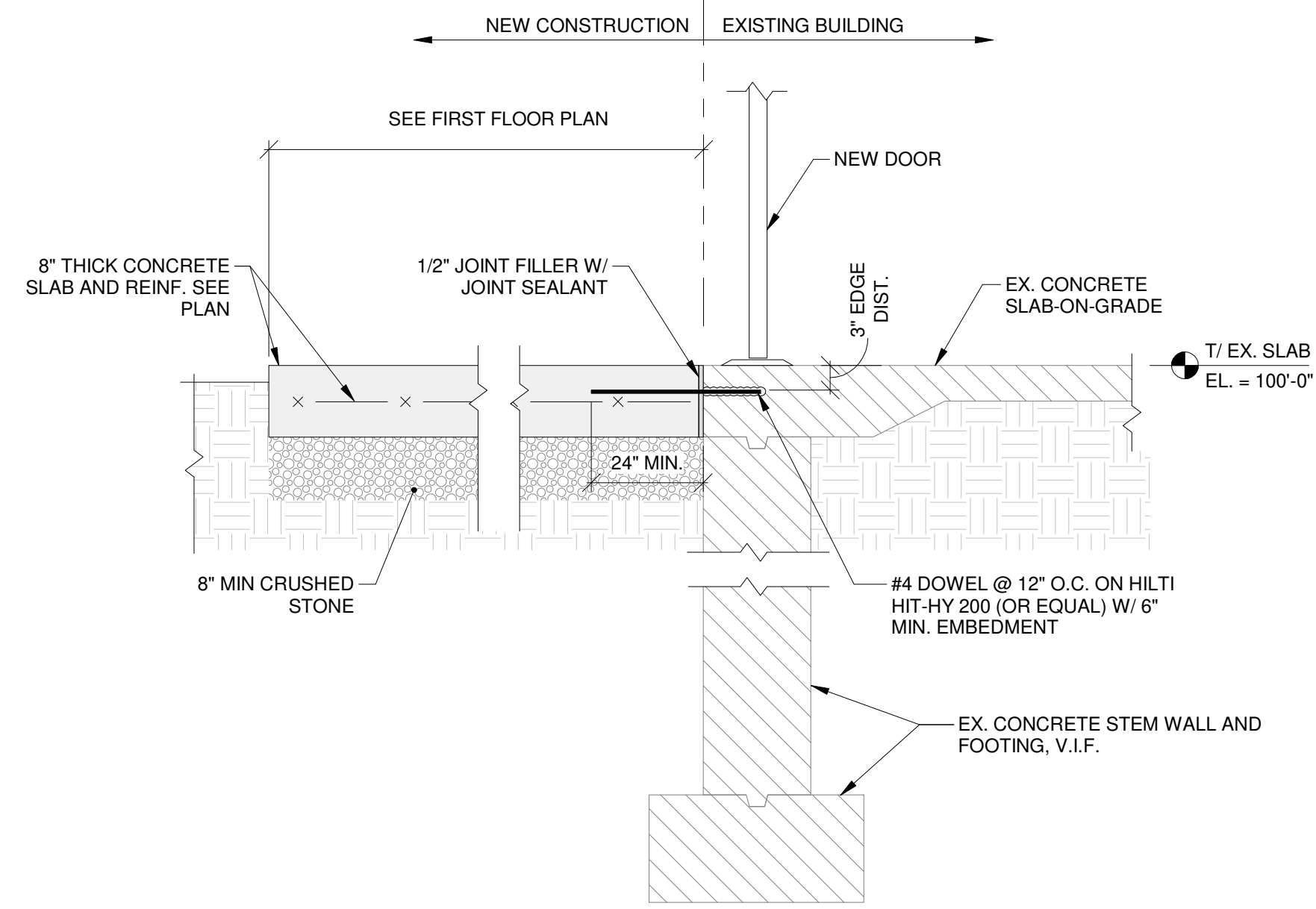


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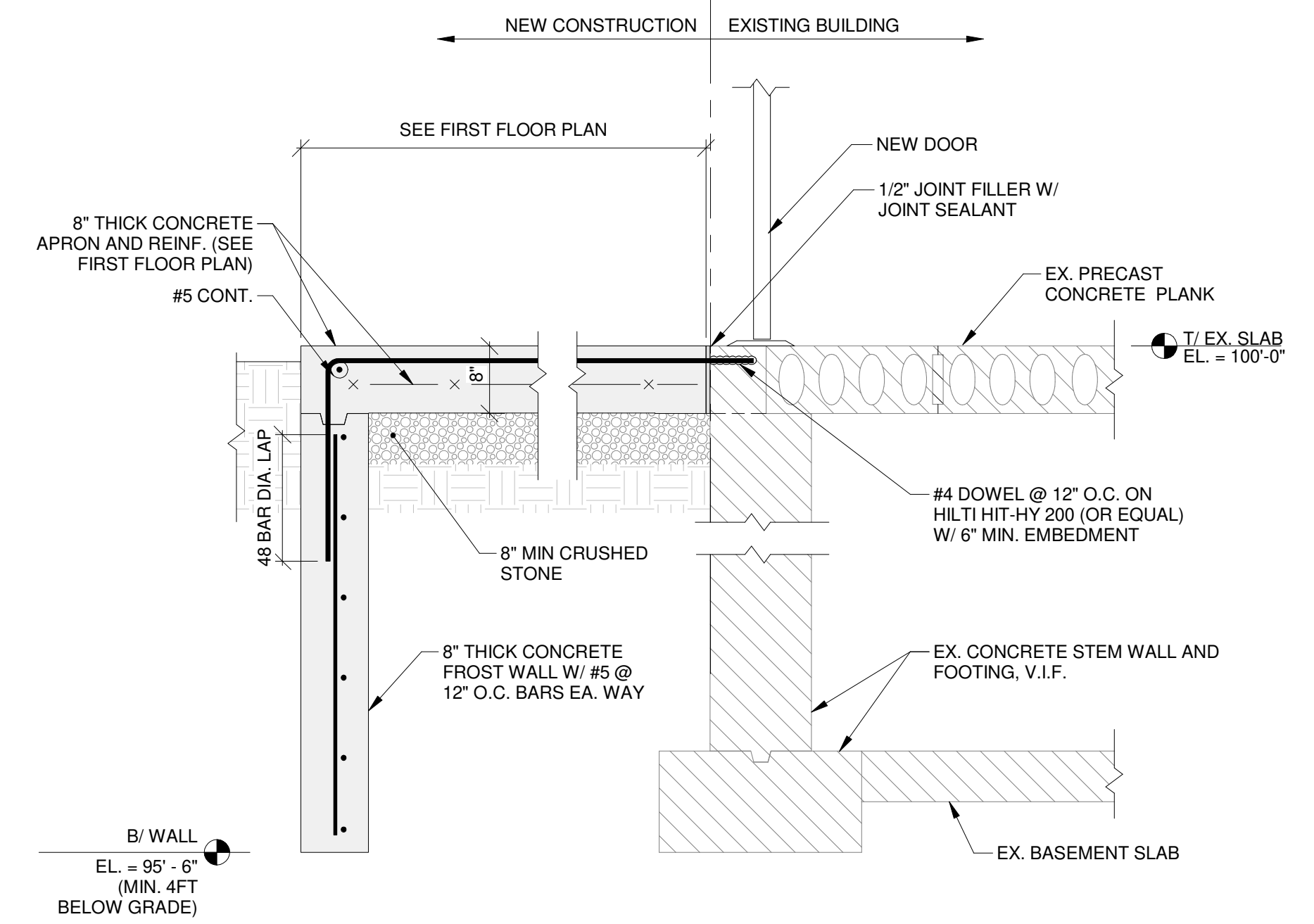
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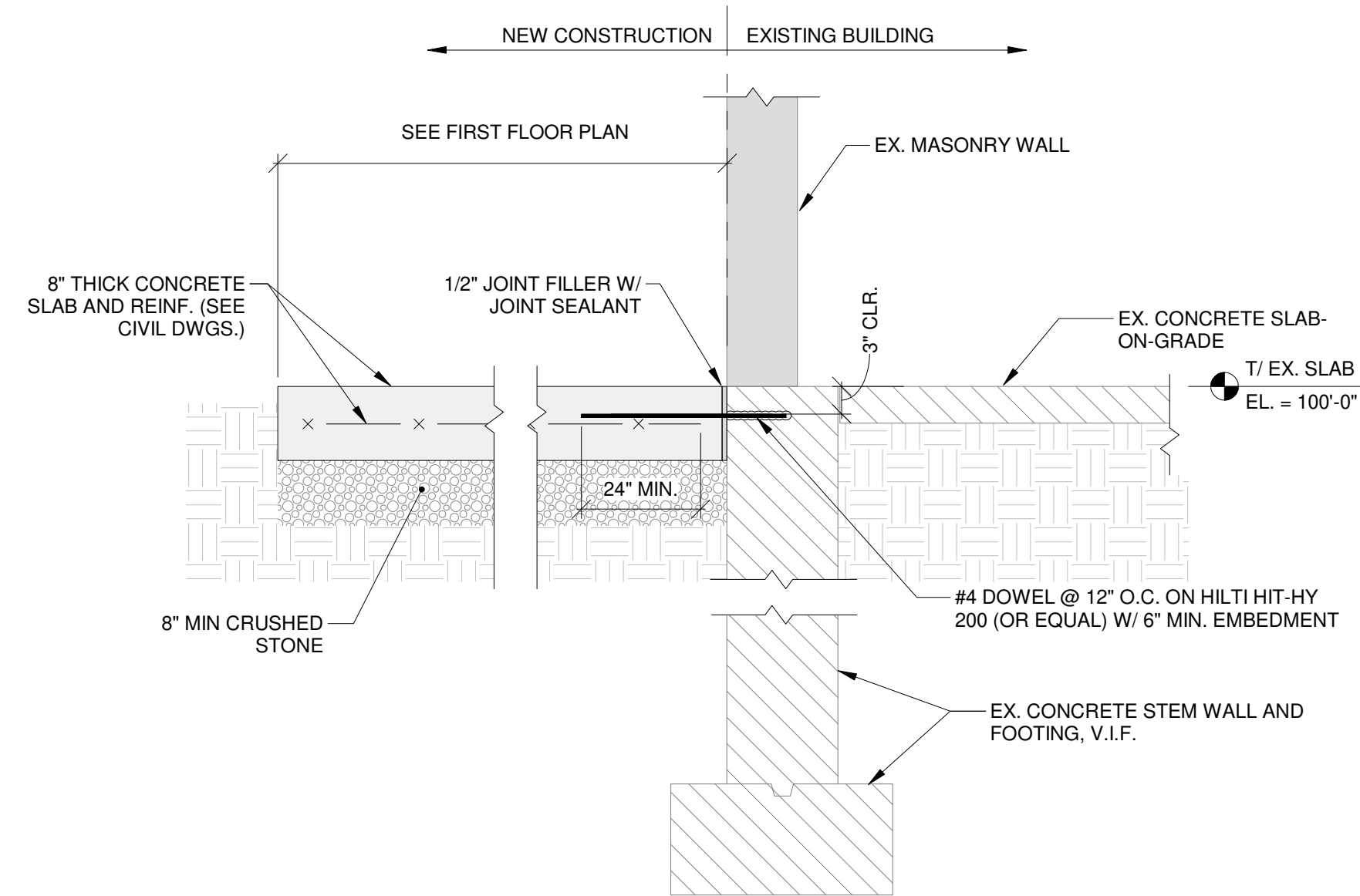
7 TYP. SLAB INFILL DETAIL
3/4" = 1'-0"



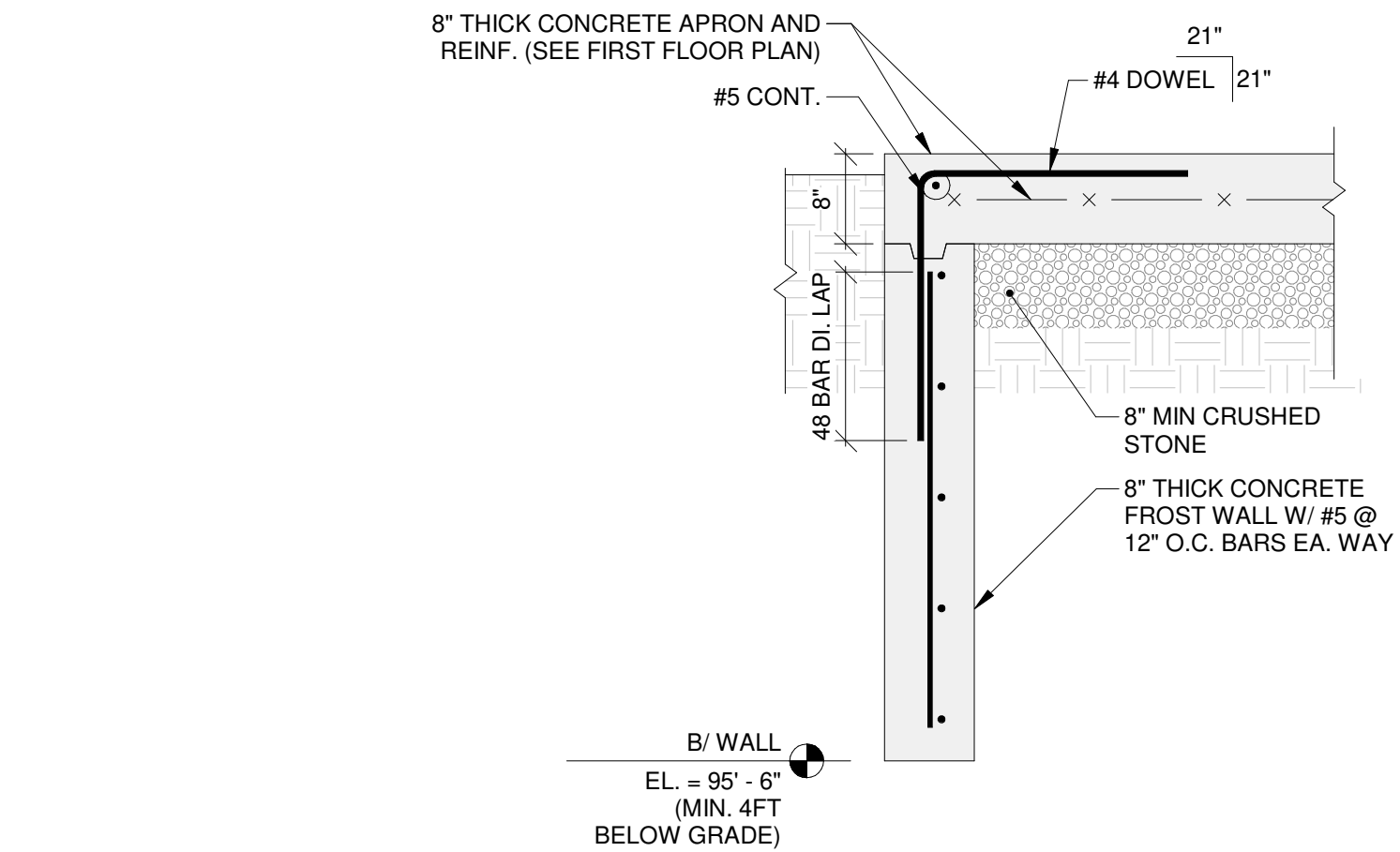
4 EXTERIOR SLAB ON GRADE @ EX. FOUNDATION W/ DOOR
3/4" = 1'-0"



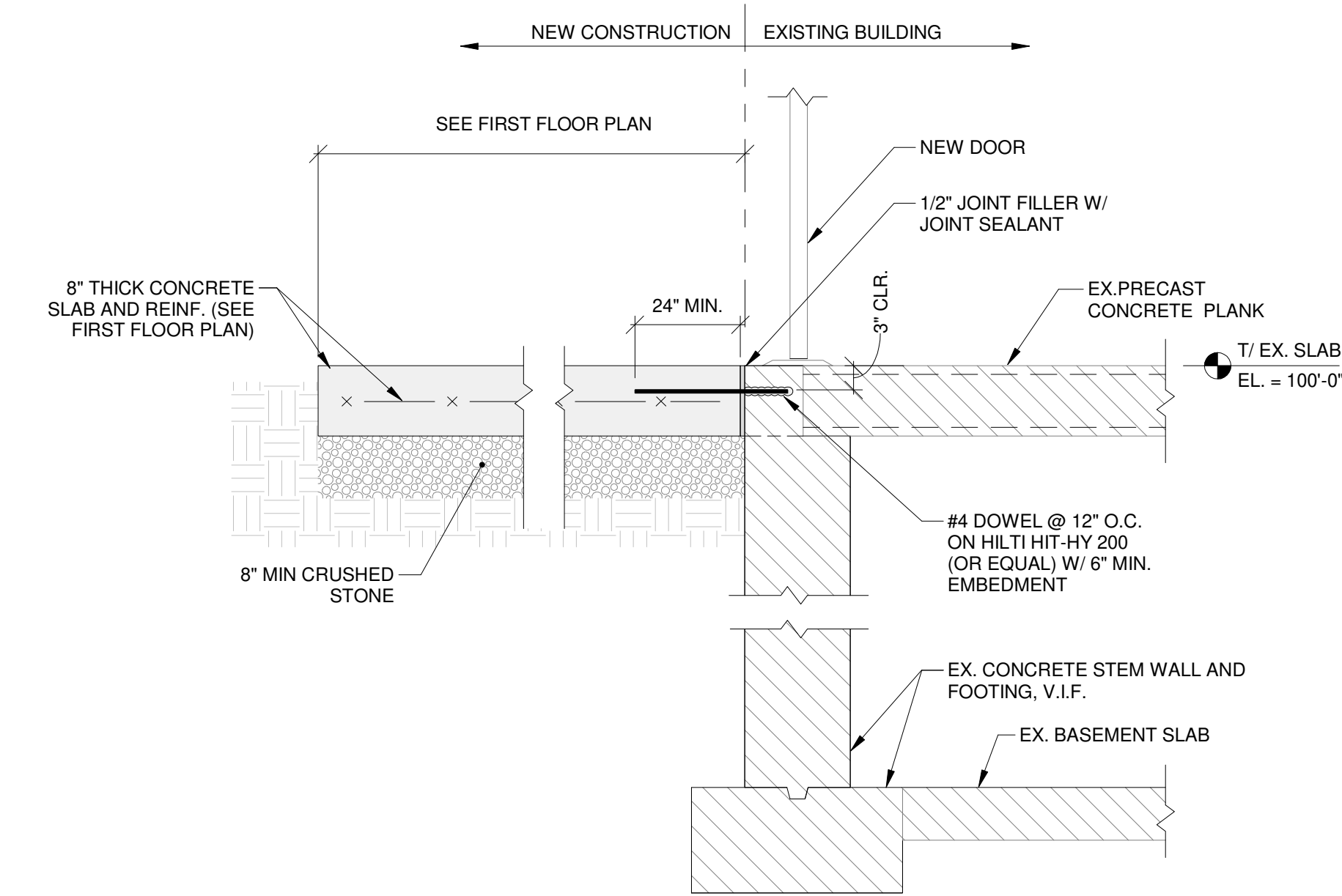
1 EXTERIOR SLAB @ FROST WALL
3/4" = 1'-0"



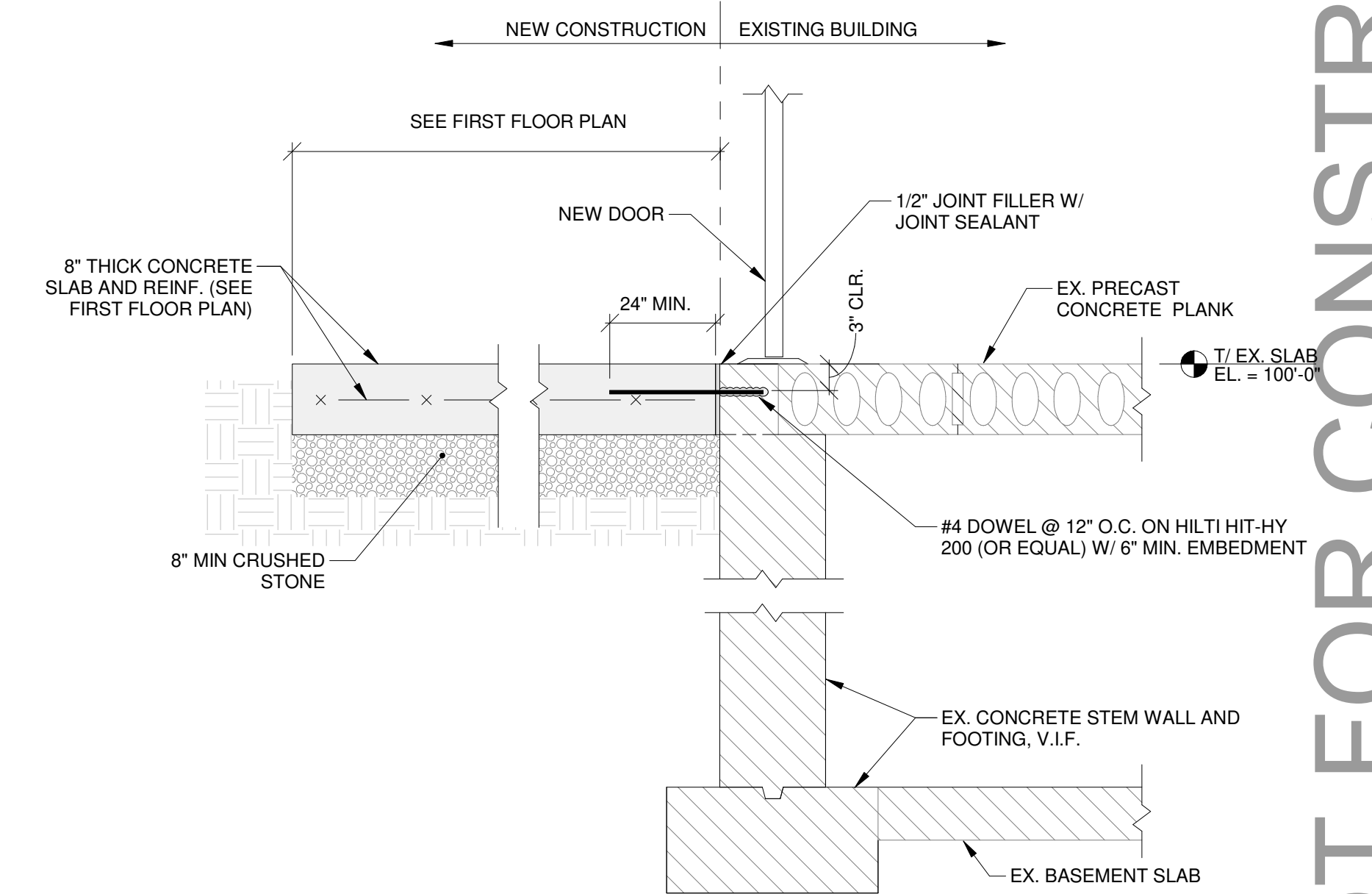
5 EXTERIOR SLAB ON GRADE @ EX. FOUNDATION
3/4" = 1'-0"



2 TYP. FROST WALL DETAIL
3/4" = 1'-0"



6 SLAB ON GRADE @ HOLLOWCORE PANELS
3/4" = 1'-0"



3 SLAB ON GRADE PARALLEL TO HOLLOWCORE PANELS
3/4" = 1'-0"



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APPROVED BY / DATE:

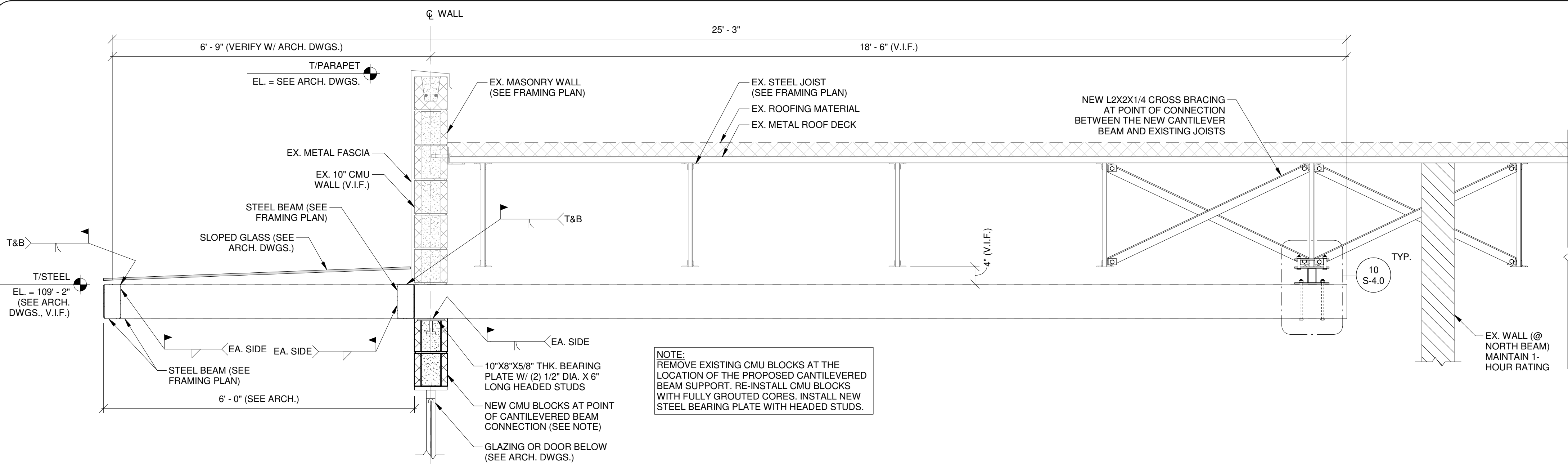
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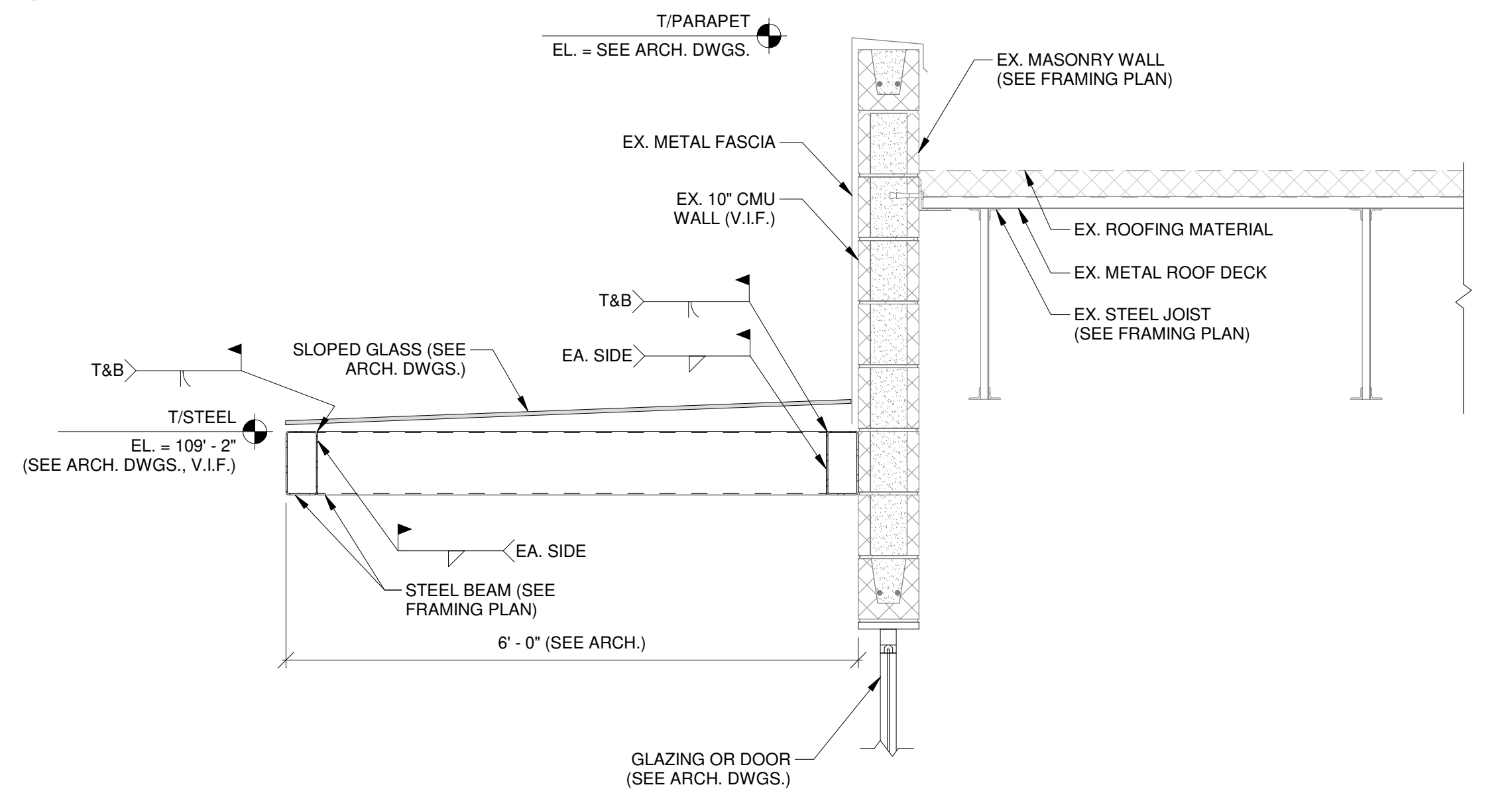
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JSG
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DATE
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PROJECT NUMBER
2000765M

FOUNDATION DETAILS
S-3.0

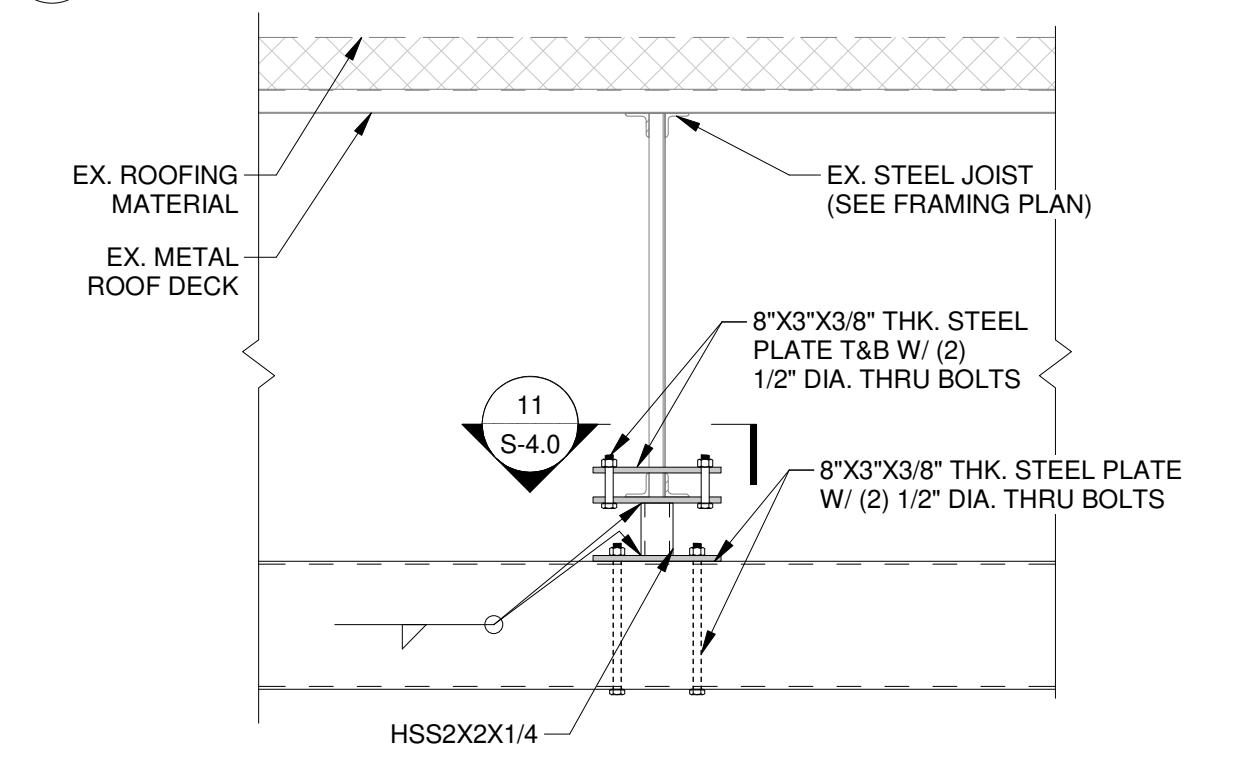
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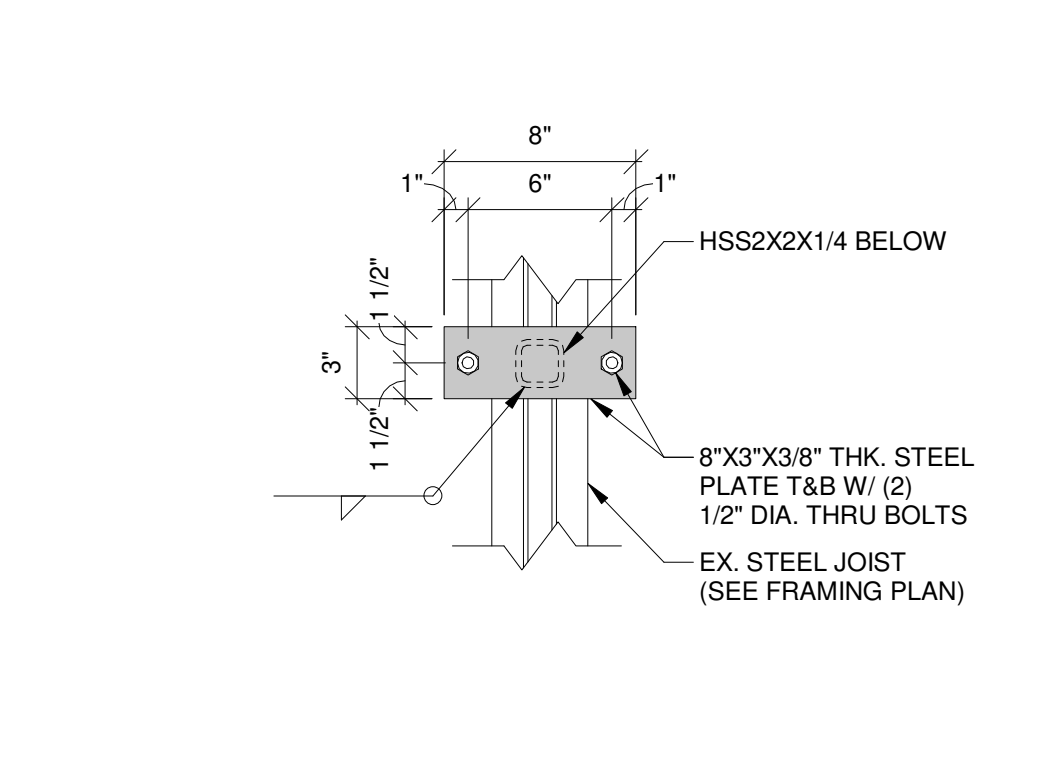
6 NEW CANOPY TO EX. STEEL JOISTS @ MASONRY WALL
3/4" = 1'-0"



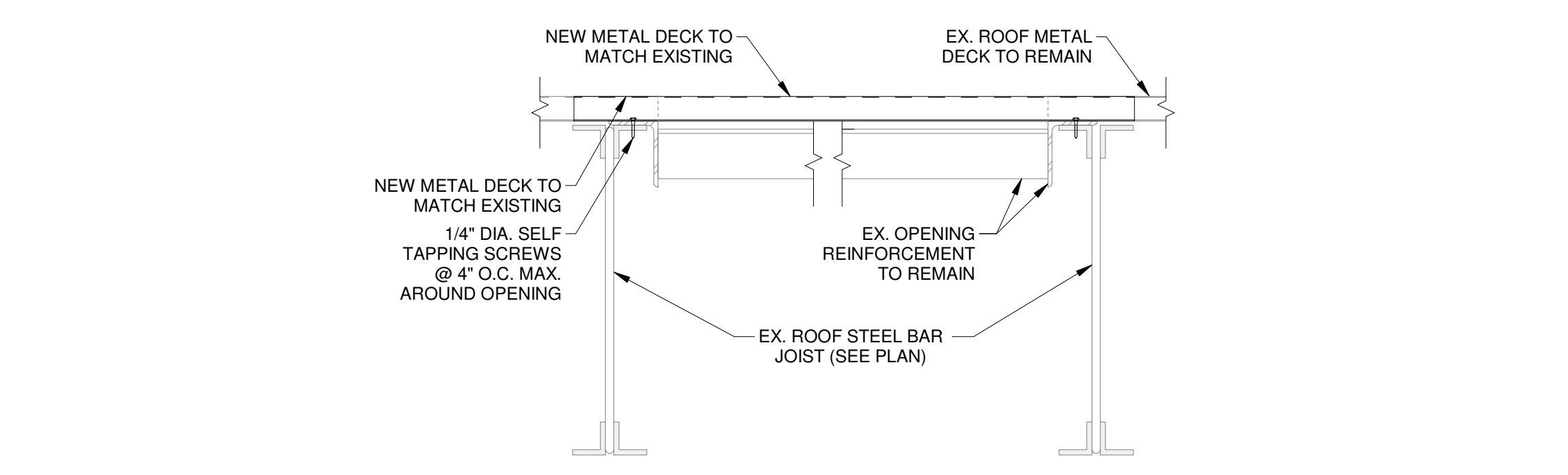
9 NEW CANOPY TO EX. STEEL JOISTS @ MASONRY WALL SECTION
3/4" = 1'-0"



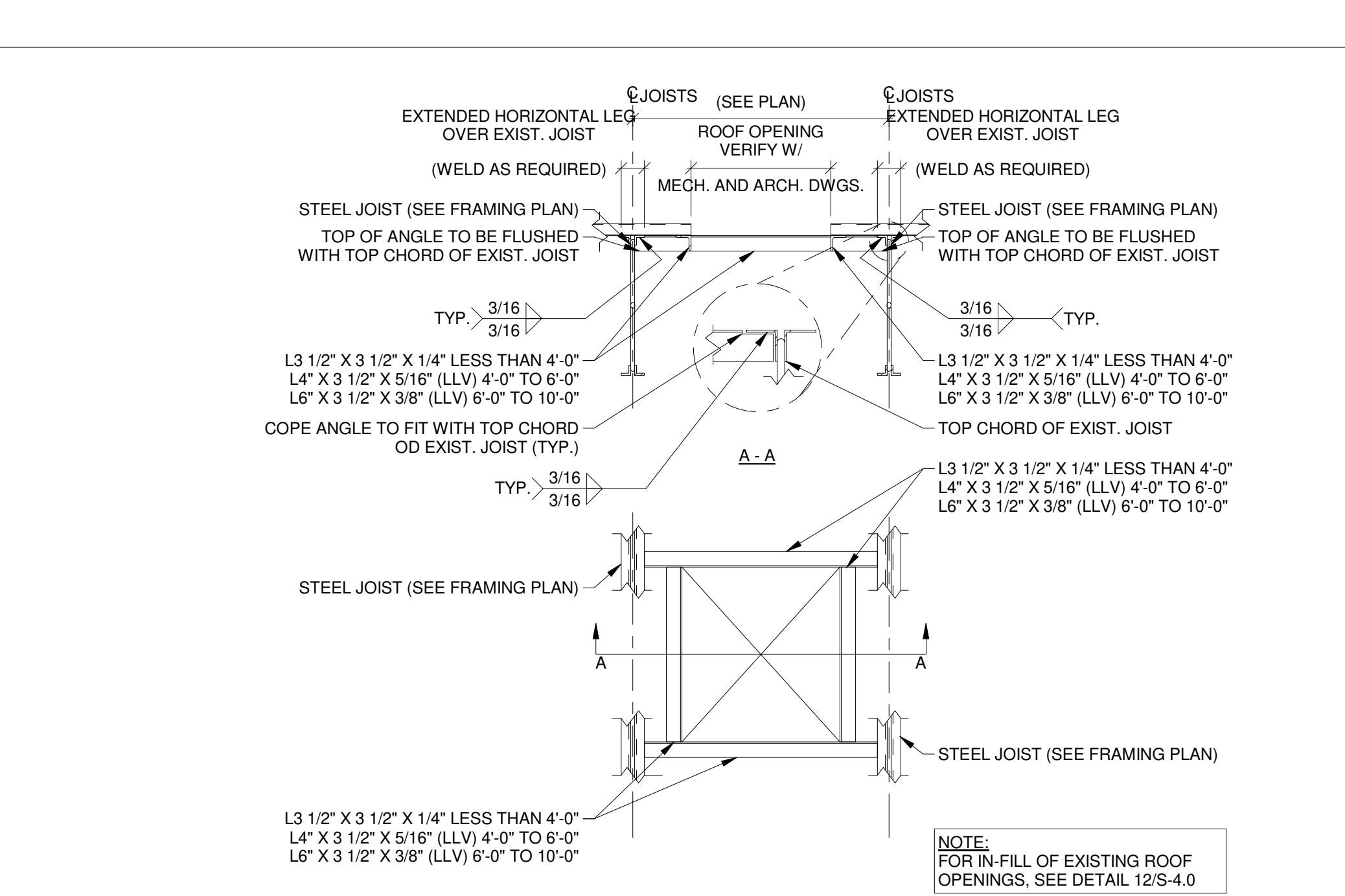
10 EX. STEEL JOIST TO NEW STEEL BEAM DETAIL
1" = 1'-0"



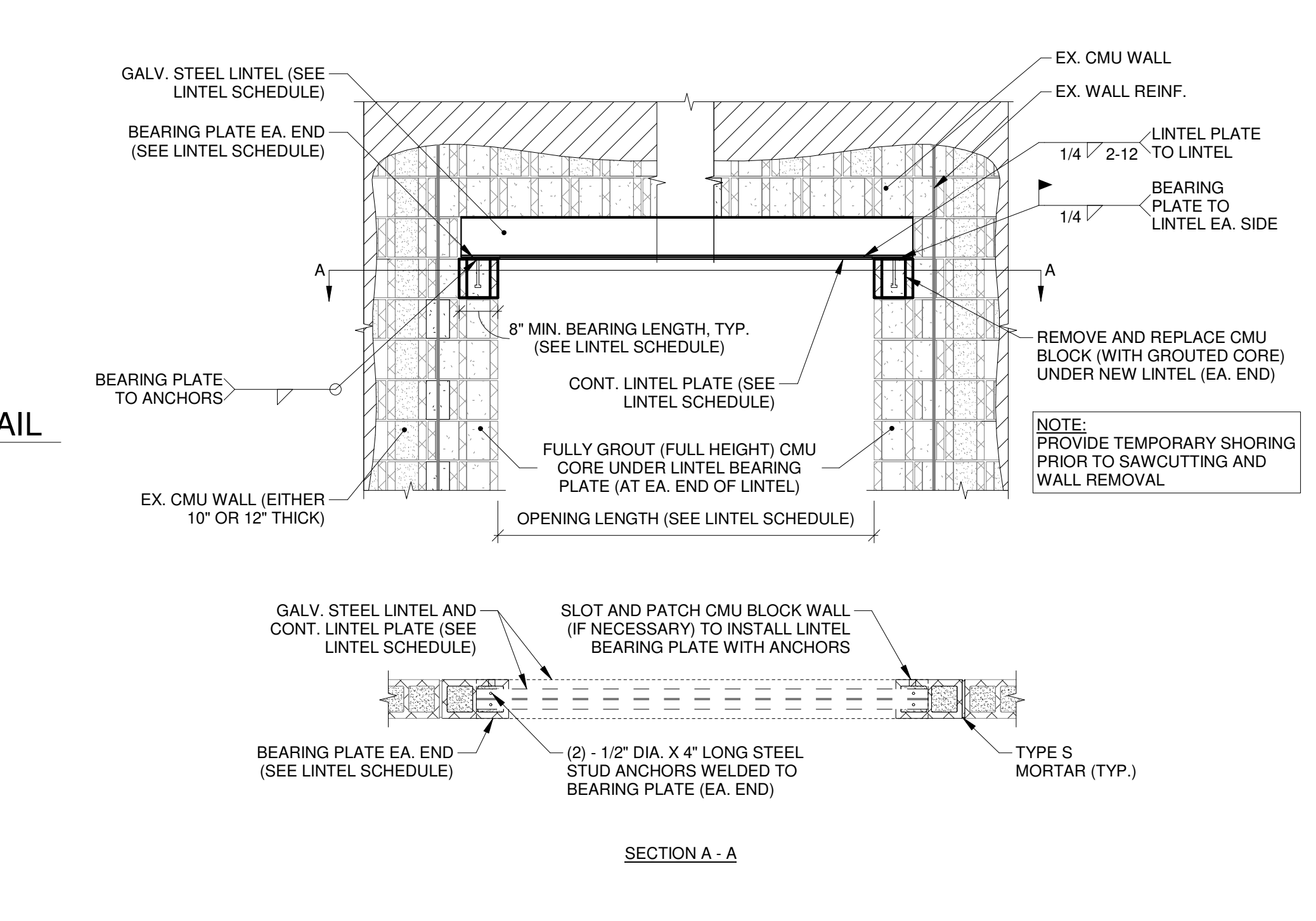
11 BEAM SUPPORT CONNECTION DETAIL
1 1/2" = 1'-0"



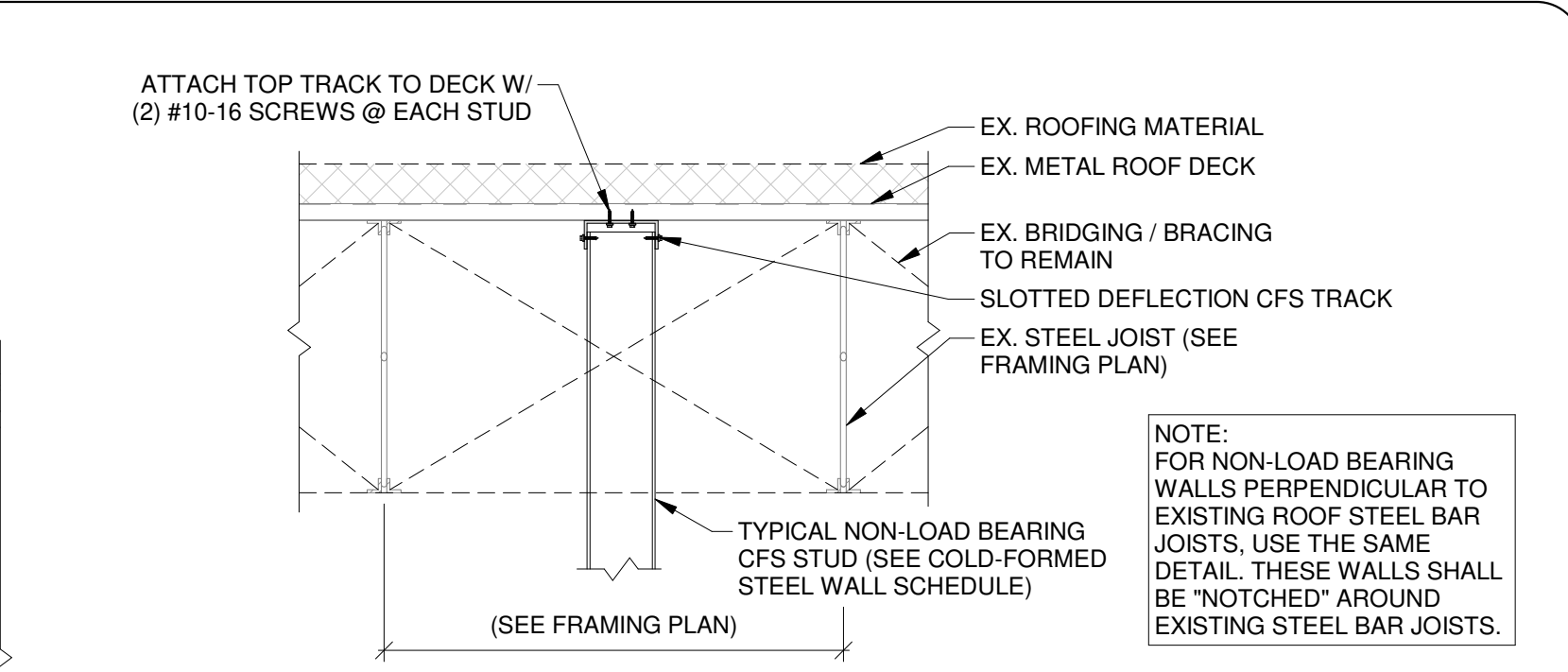
12 NEW DECK OVER EXISTING ROOF OPENING
1 1/2" = 1'-0"



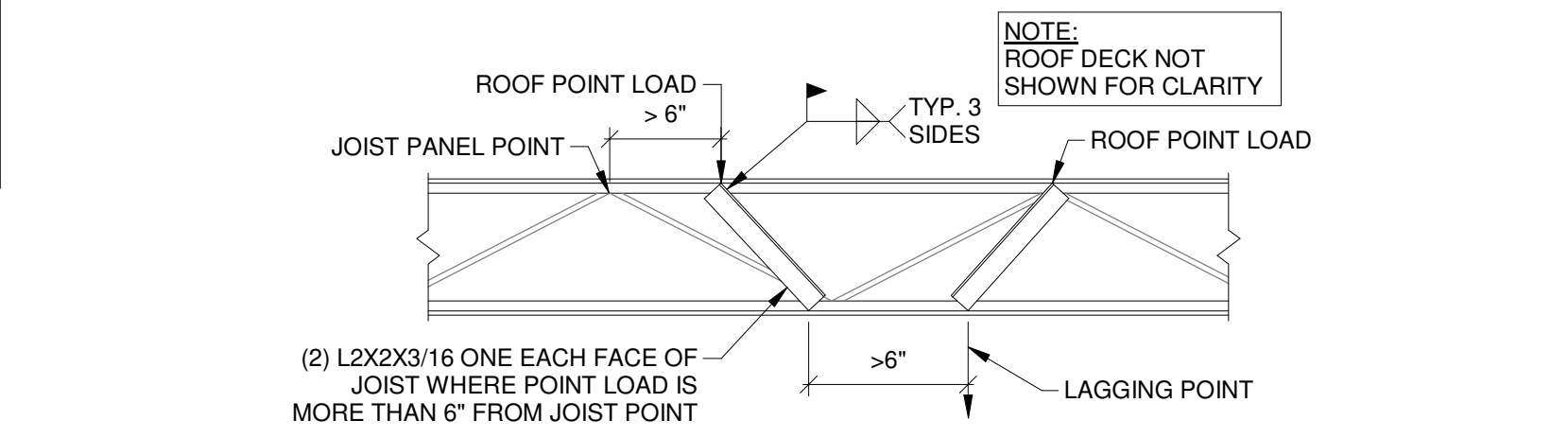
7 TYP. RTU SUPPORT AT PROPOSED ROOF OPENING
3/4" = 1'-0"



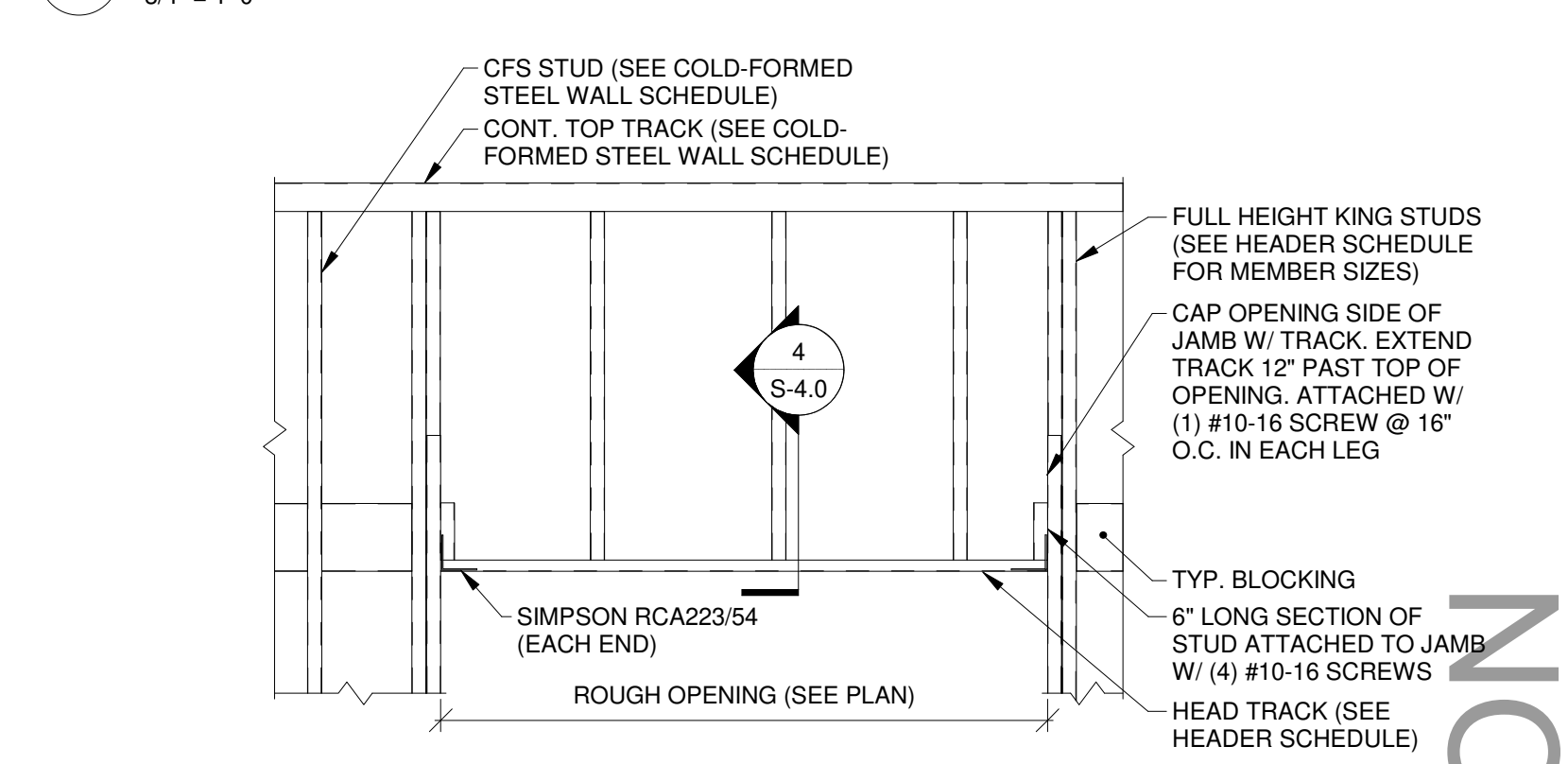
8 TYP. LINTEL DETAIL
1/2" = 1'-0"



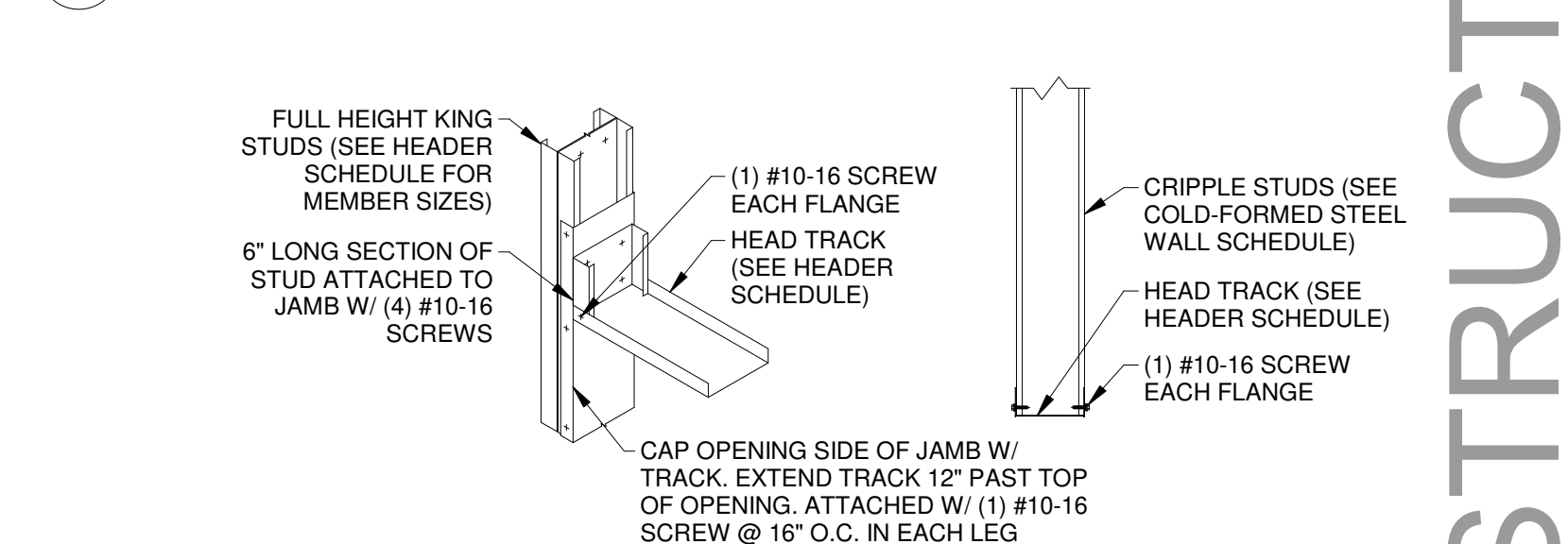
1 TYP. STEEL DECK OVER STEEL JOISTS @ FULL HGT. WALLS
3/4" = 1'-0"



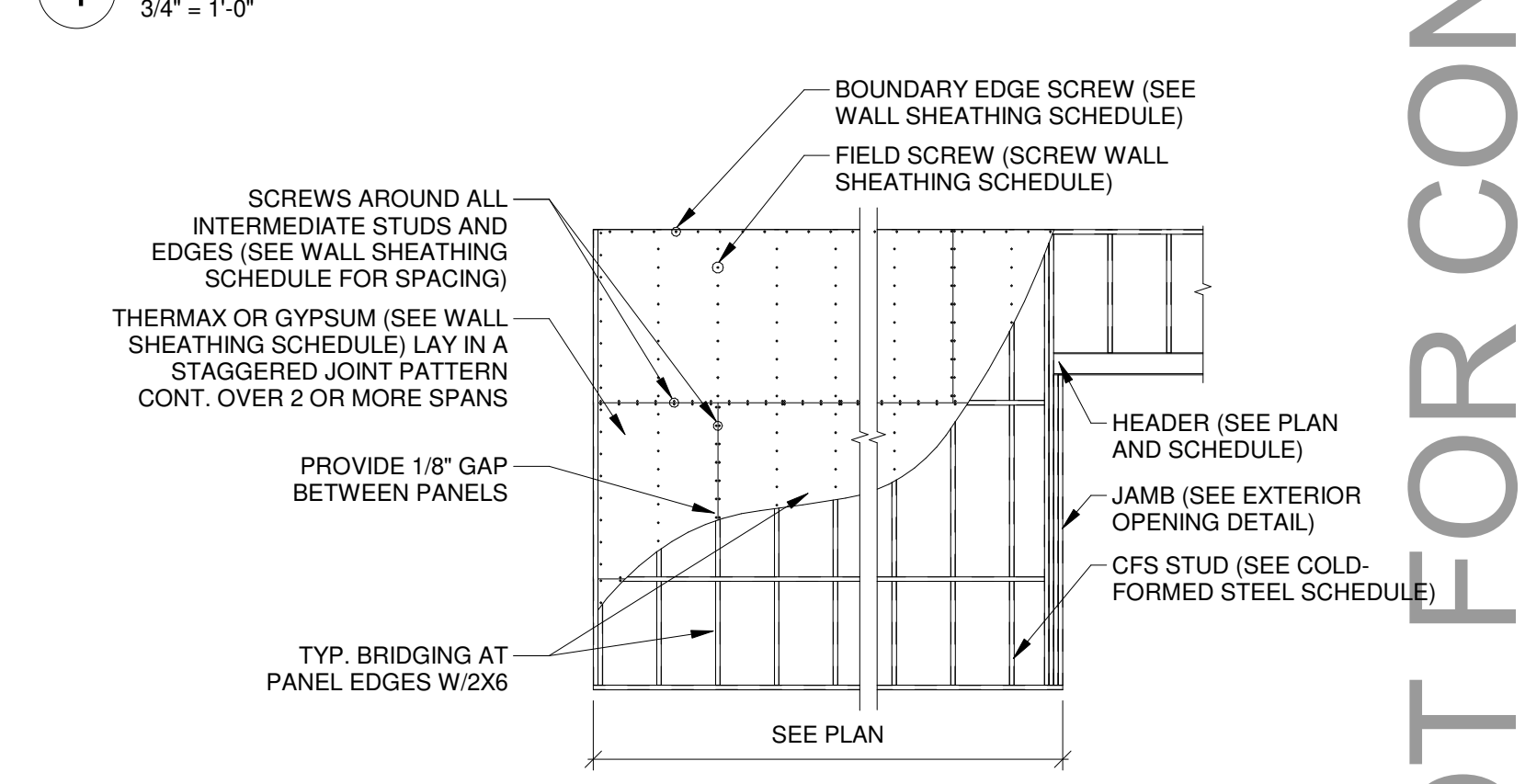
2 TYP. REINFORCEMENT DETAIL AT JOIST POINT LOAD
3/4" = 1'-0"



3 TYP. CFS NON-LOAD BEARING HEADER DETAIL
3/4" = 1'-0"



4 TYP. CFS HEADER TRACK CONNECTION
3/4" = 1'-0"



5 TYP. CFS SHEATHING ATTACHMENT
1/4" = 1'-0"



DANE COUNTY EMERGENCY MANAGEMENT REMODEL
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FRAMING DETAILS
S-4.0

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JEFF S. GUTOWSKY
35509-006
REGISTERED PROFESSIONAL ENGINEER
SIGNED: 06/08/2021
EXP.: 07/31/2022

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DANE COUNTY EMERGENCY MANAGEMENT REMODEL
 5415 KING JAMES WAY
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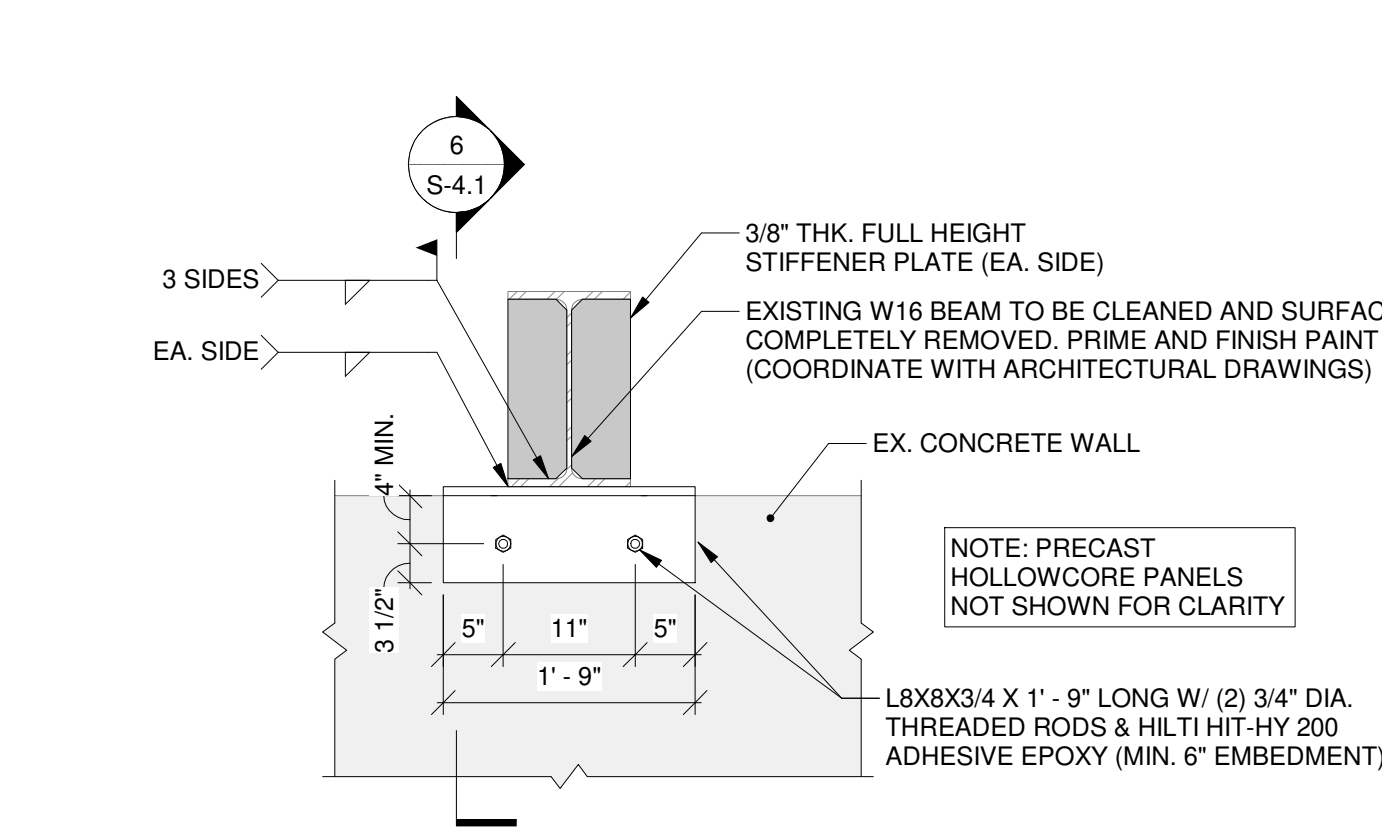
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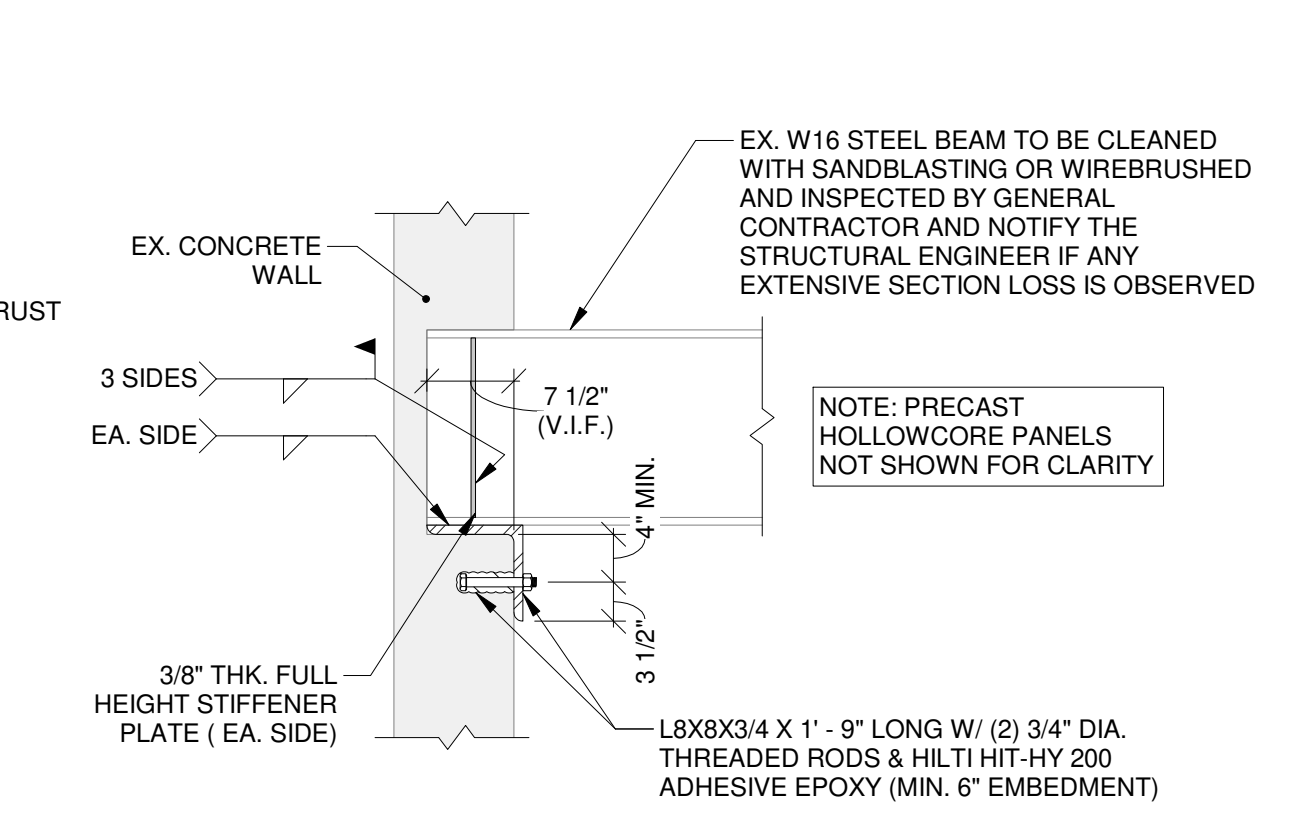
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PROJECT NUMBER
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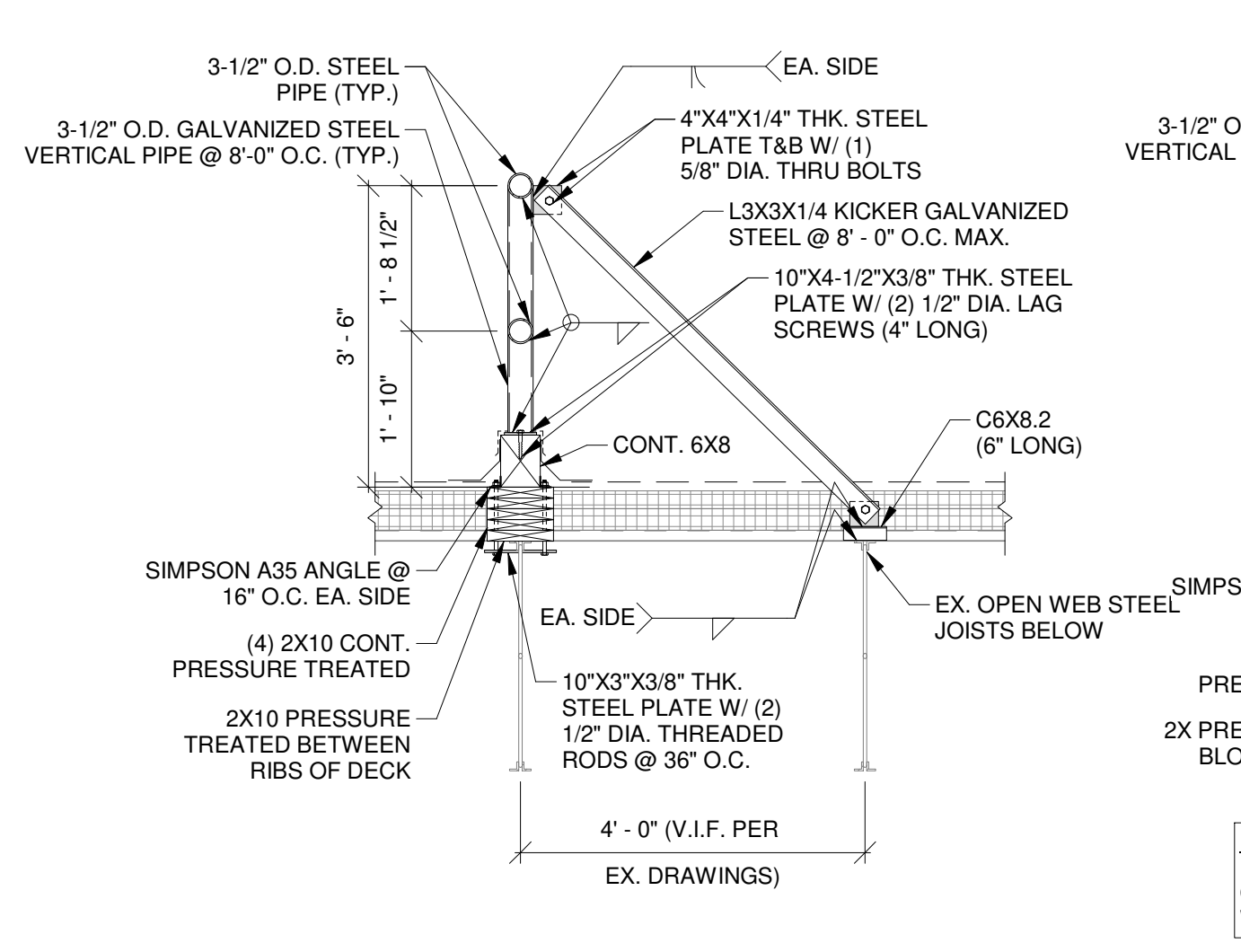
FRAMING DETAILS
S-4.1



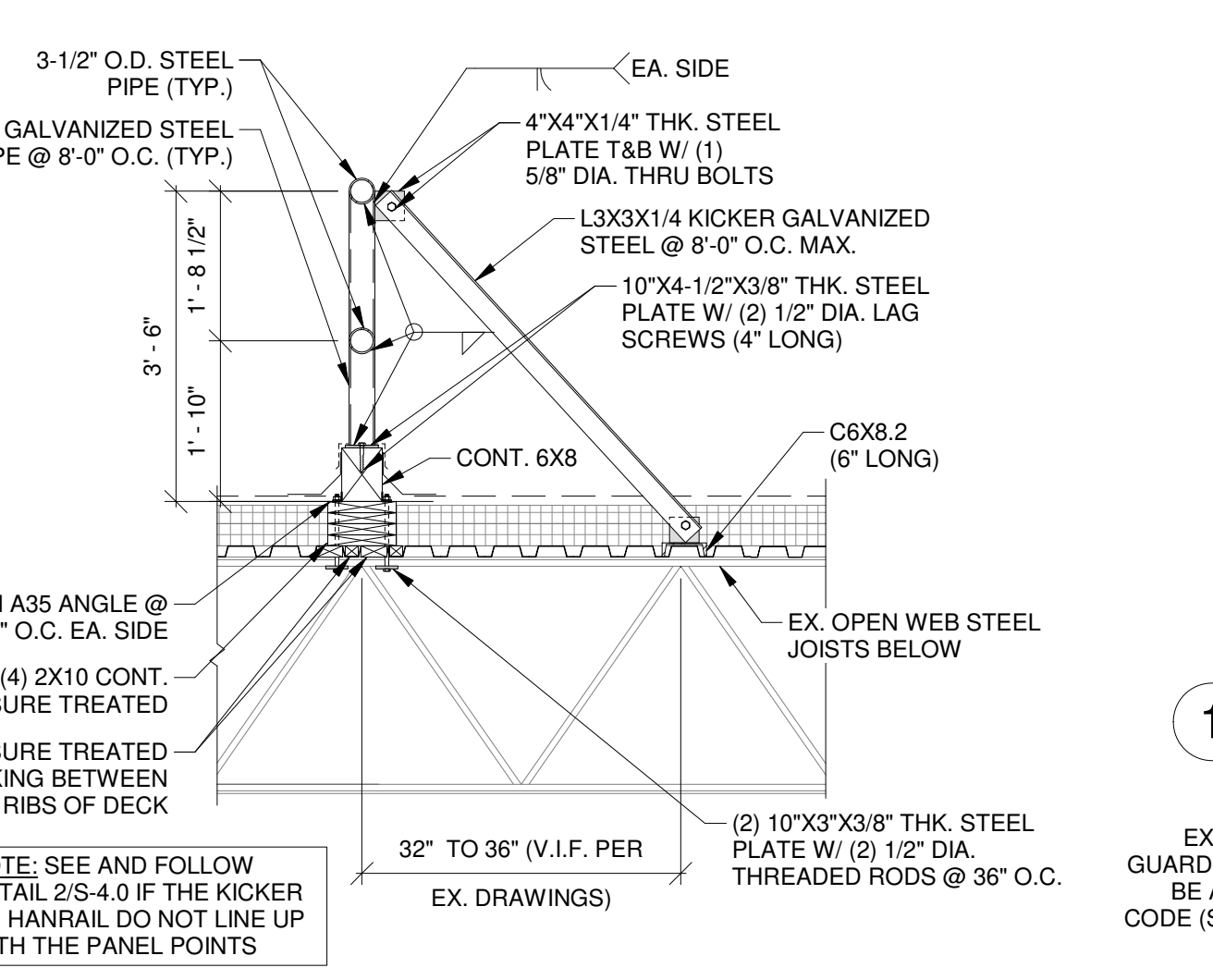
5 EX. STEEL BEAM TO CONCRETE WALL
 3/4" = 1'-0"



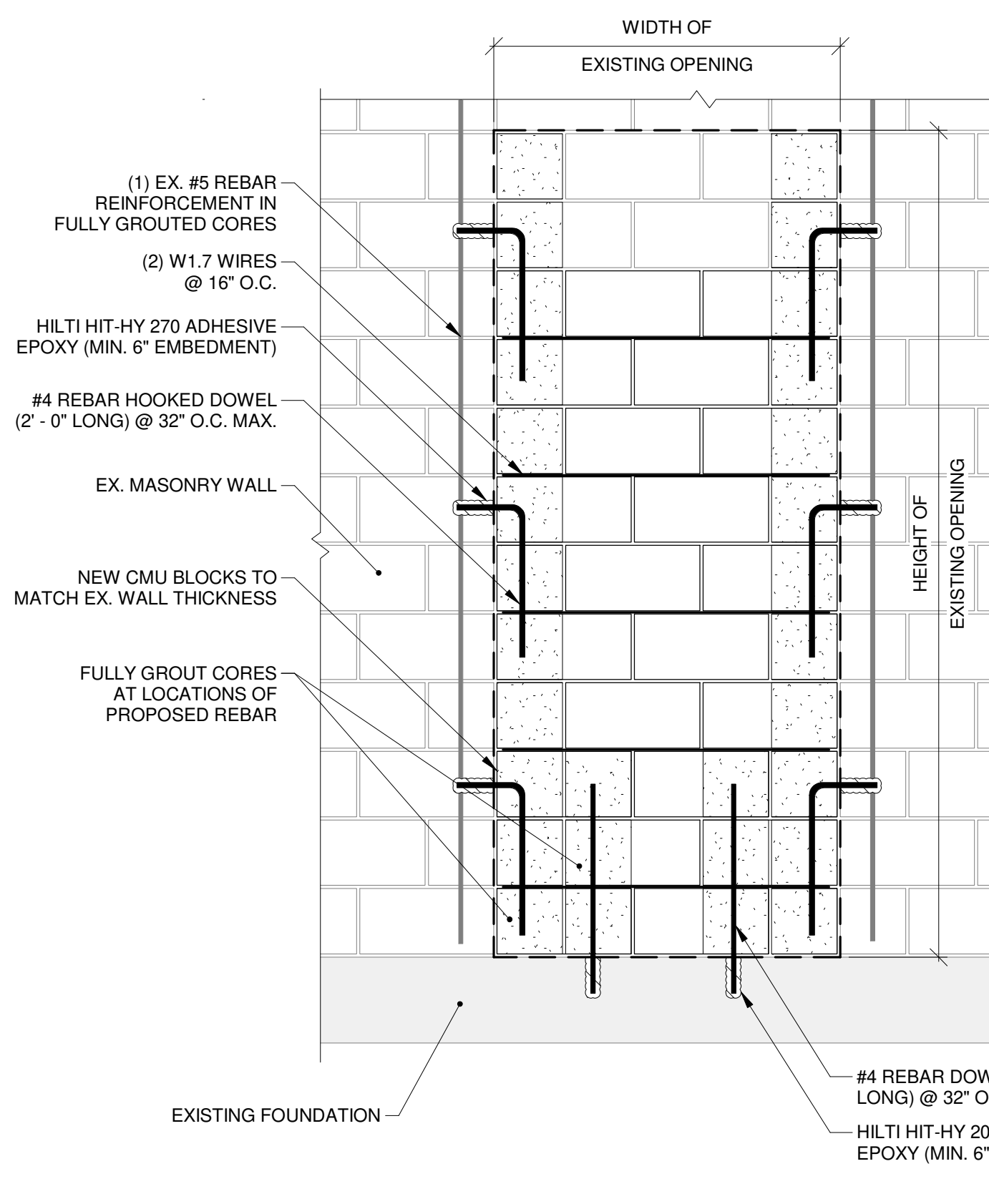
6 EX. STEEL BEAM TO CONCRETE WALL SECTION
 3/4" = 1'-0"



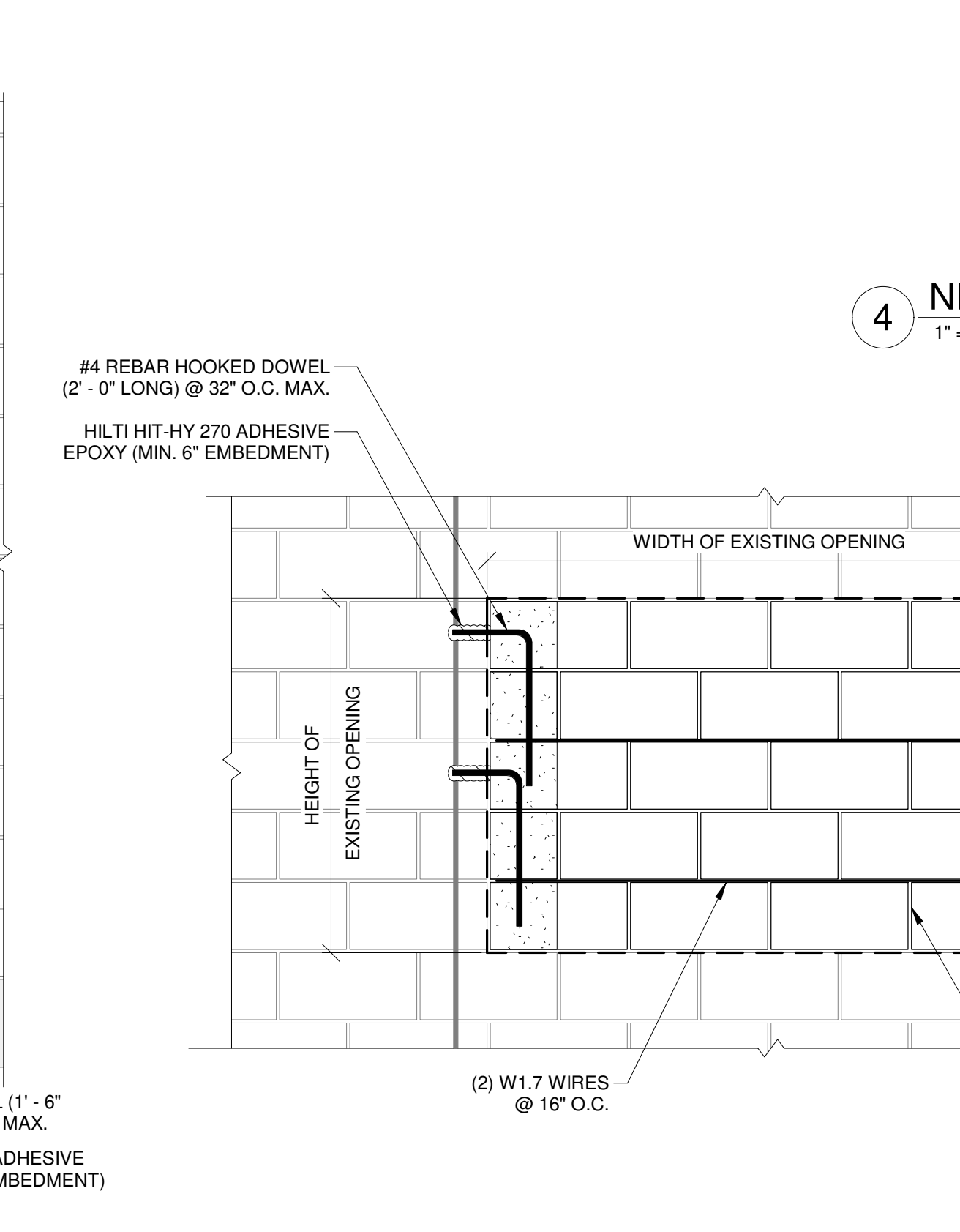
7 EQUIPMENT SUPPORT RAIL DETAIL 1
 1/2" = 1'-0"



8 EQUIPMENT SUPPORT RAIL DETAIL 2
 1/2" = 1'-0"

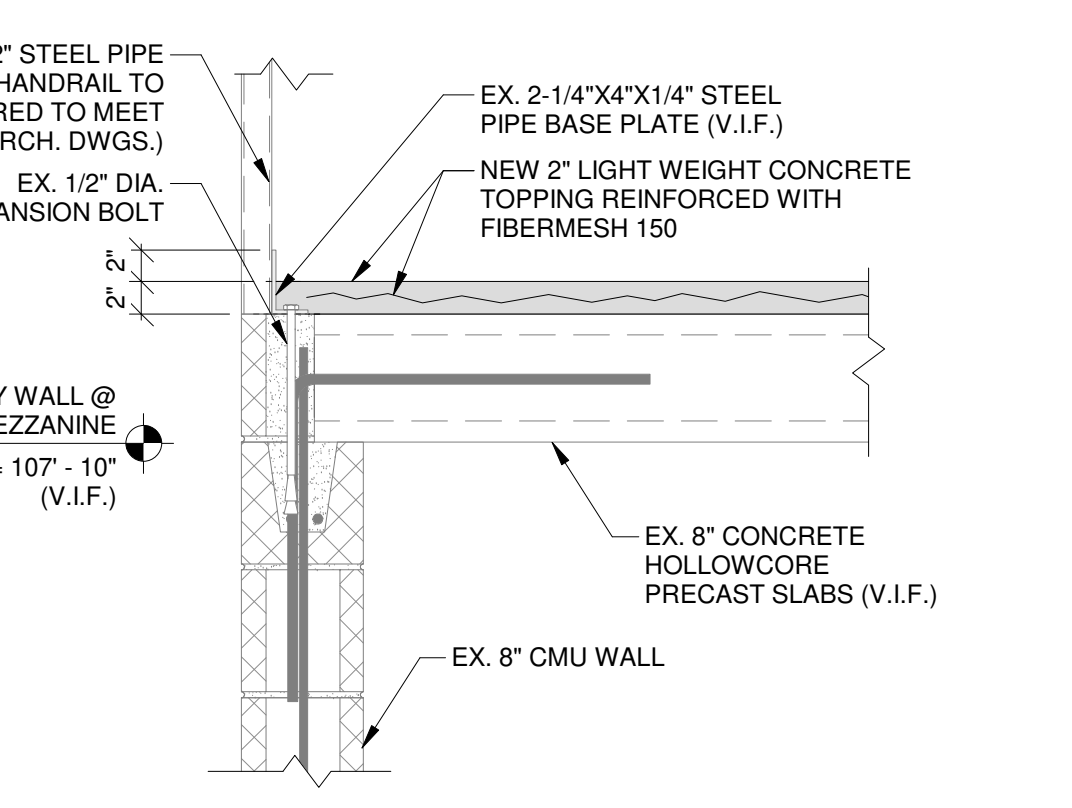


9 EXISTING CMU WALL OPENING INFILL DETAIL
 3/4" = 1'-0"

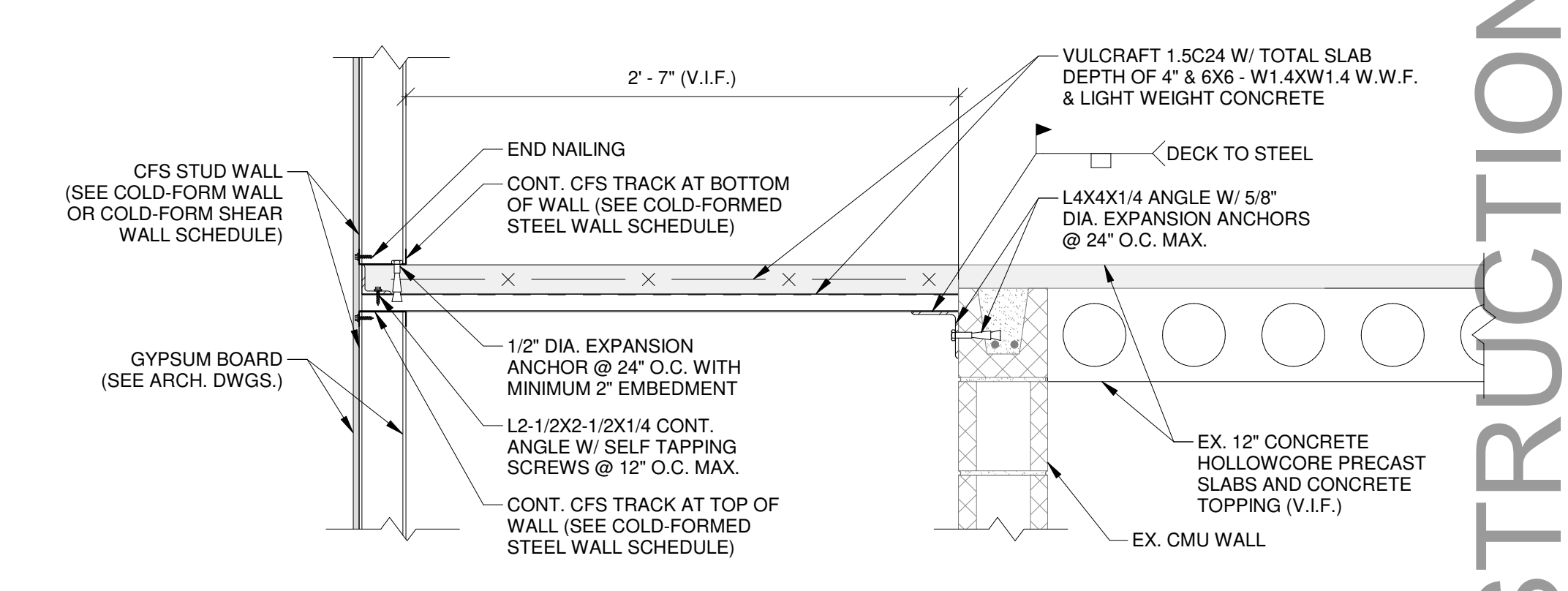


4 NEW CONC. ON 8" PANELS @ MEZZANINE
 1" = 1'-0"

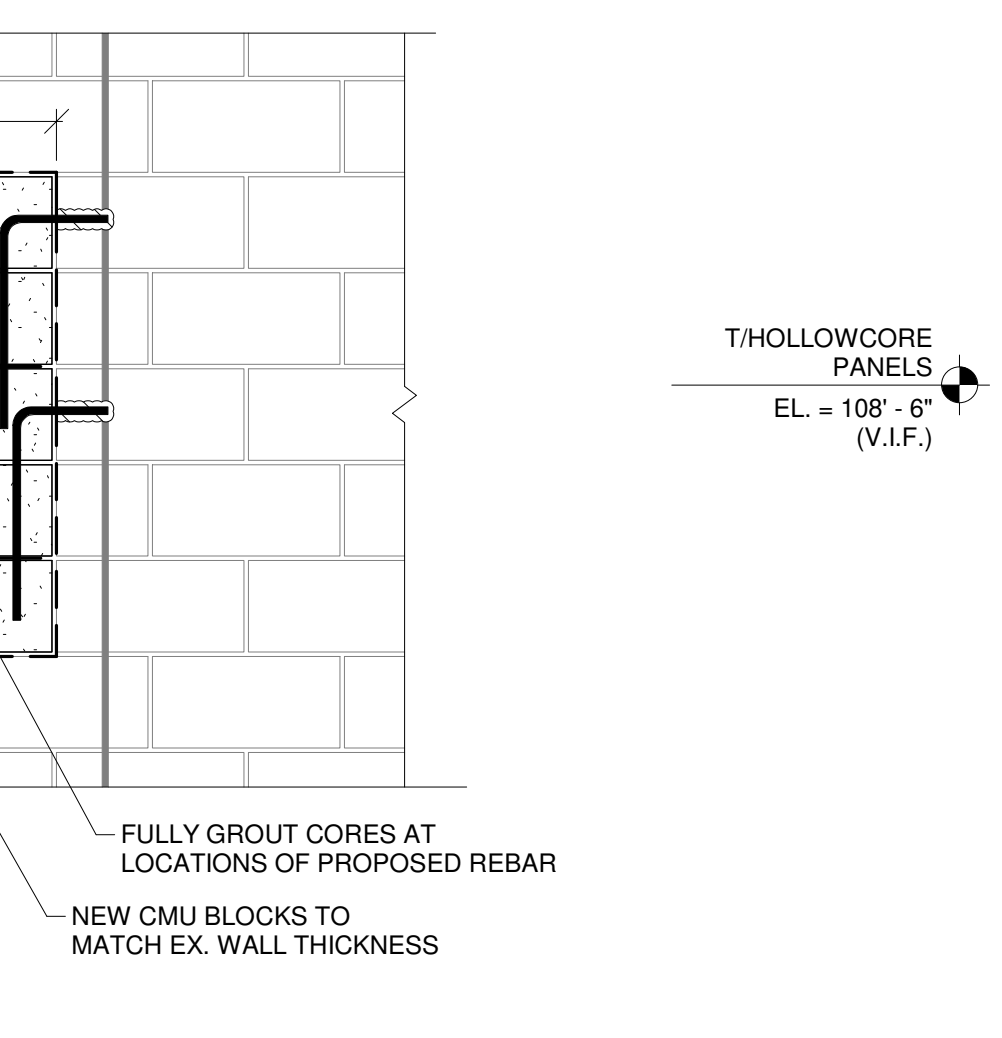
1 WALL SUPPORTED ON STAIRS ELEVATION
 3/4" = 1'-0"



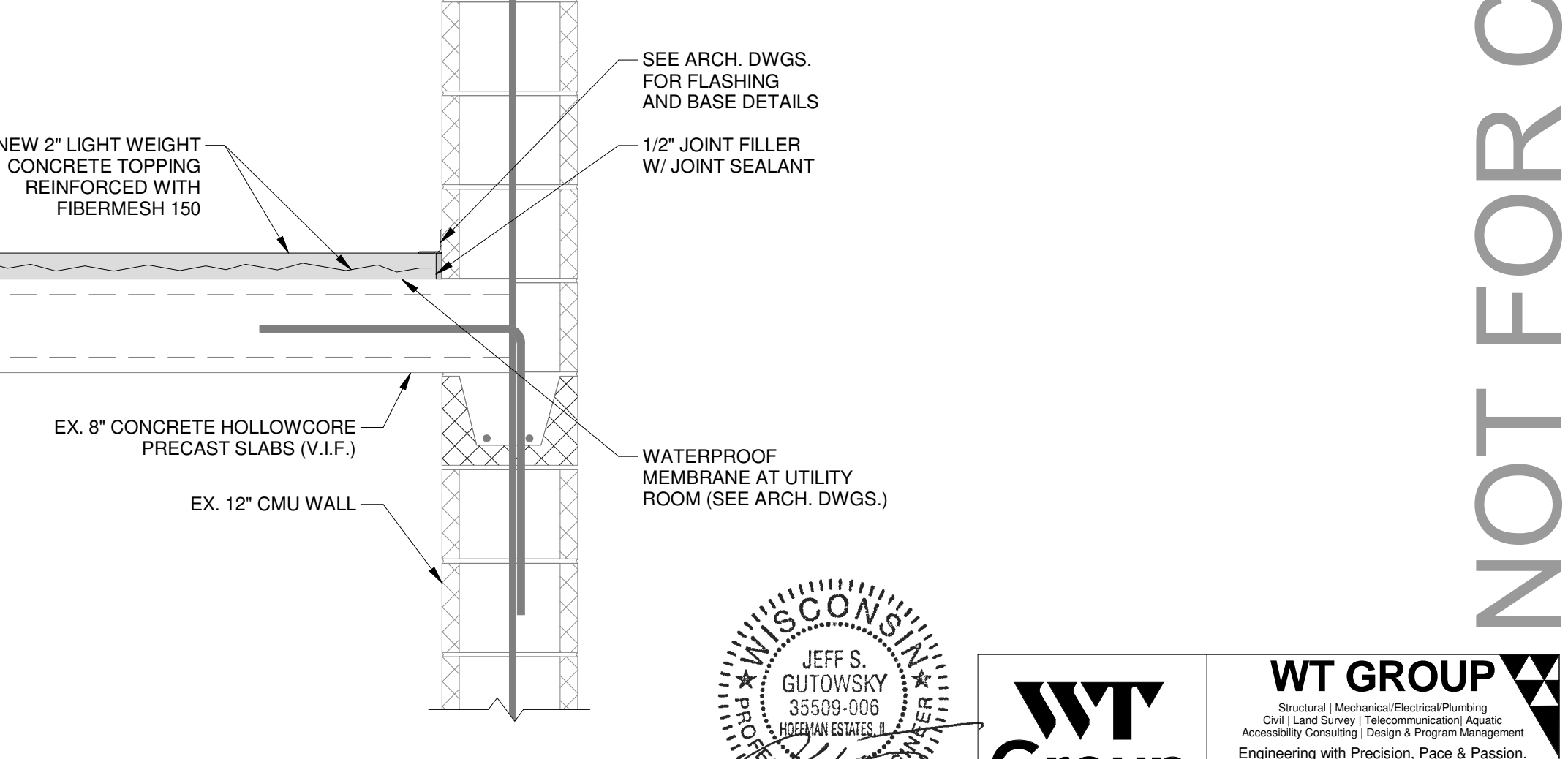
2 NEW FLOOR @ STAIRS
 1" = 1'-0"



**3 NEW TOPPING ON 8\"/>
 1" = 1'-0"**



**4 NEW CONC. ON 8\"/>
 1" = 1'-0"**



**3 NEW TOPPING ON 8\"/>
 1" = 1'-0"**

**4 NEW CONC. ON 8\"/>
 1" = 1'-0"**

NOTE:
 PRIOR TO DRILLING INTO EXISTING CONCRETE OR PRECAST PANELS, THE GENERAL CONTRACTOR SHALL X-RAY SCAN AND LOCATE THE EXISTING REBAR AND TENSION REINFORCEMENT. THE PROPOSED ANCHORS SHALL BE INSTALLED AS TO NOT DAMAGE OR CUT ANY OF THE EXISTING CONCRETE REINFORCEMENT.

JEFF S. GUTOWSKY
 35509-006
 PROFESSIONAL ENGINEER
 WISCONSIN
 SIGNED: 06/08/2021
 EXP.: 07/31/2022

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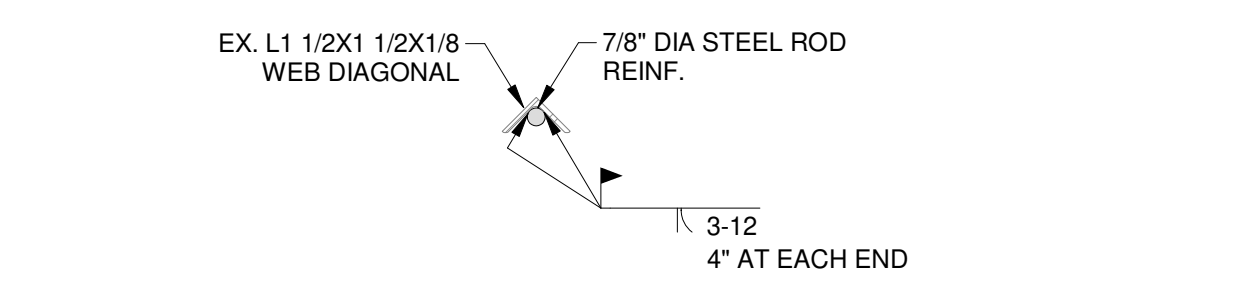
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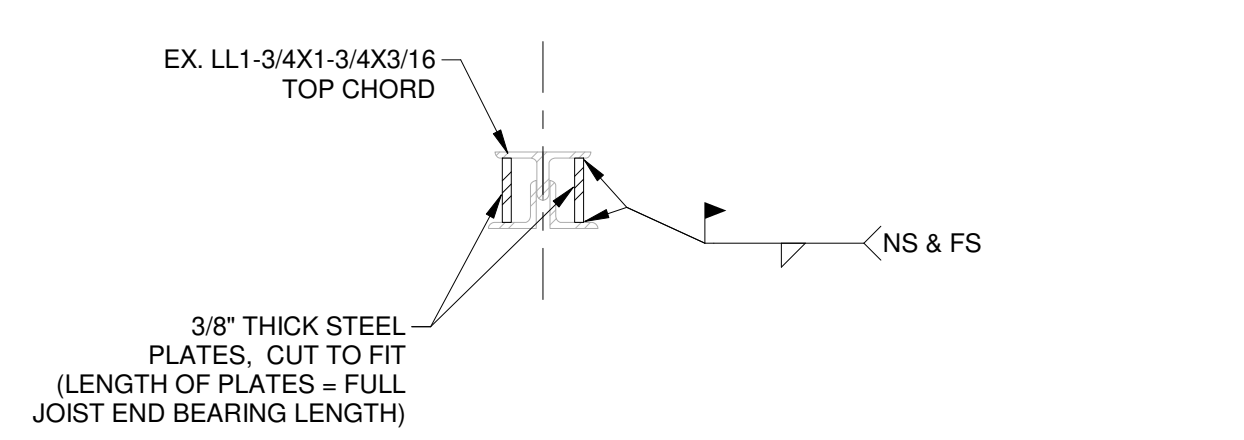
FRAMING DETAILS
S-4.2

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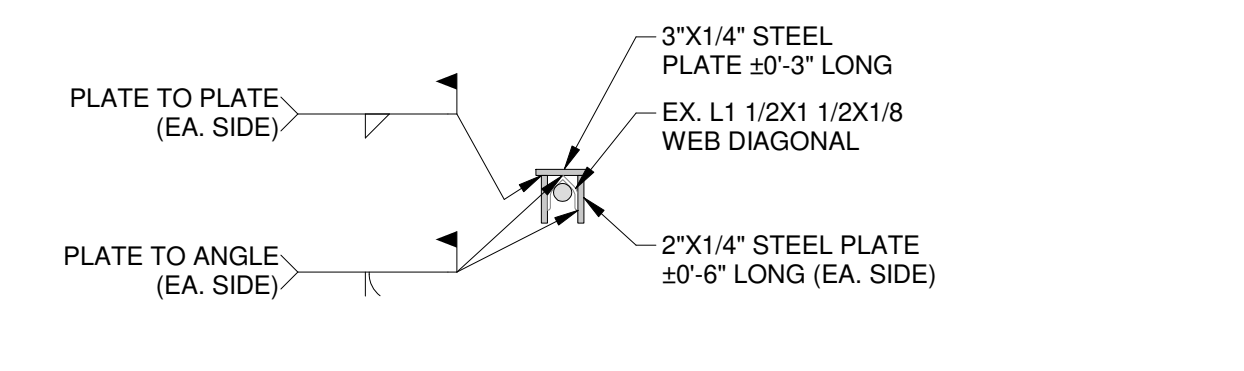
7 TYPICAL ANGLE WEB REINFORCEMENT
 1 1/2" = 1'-0"



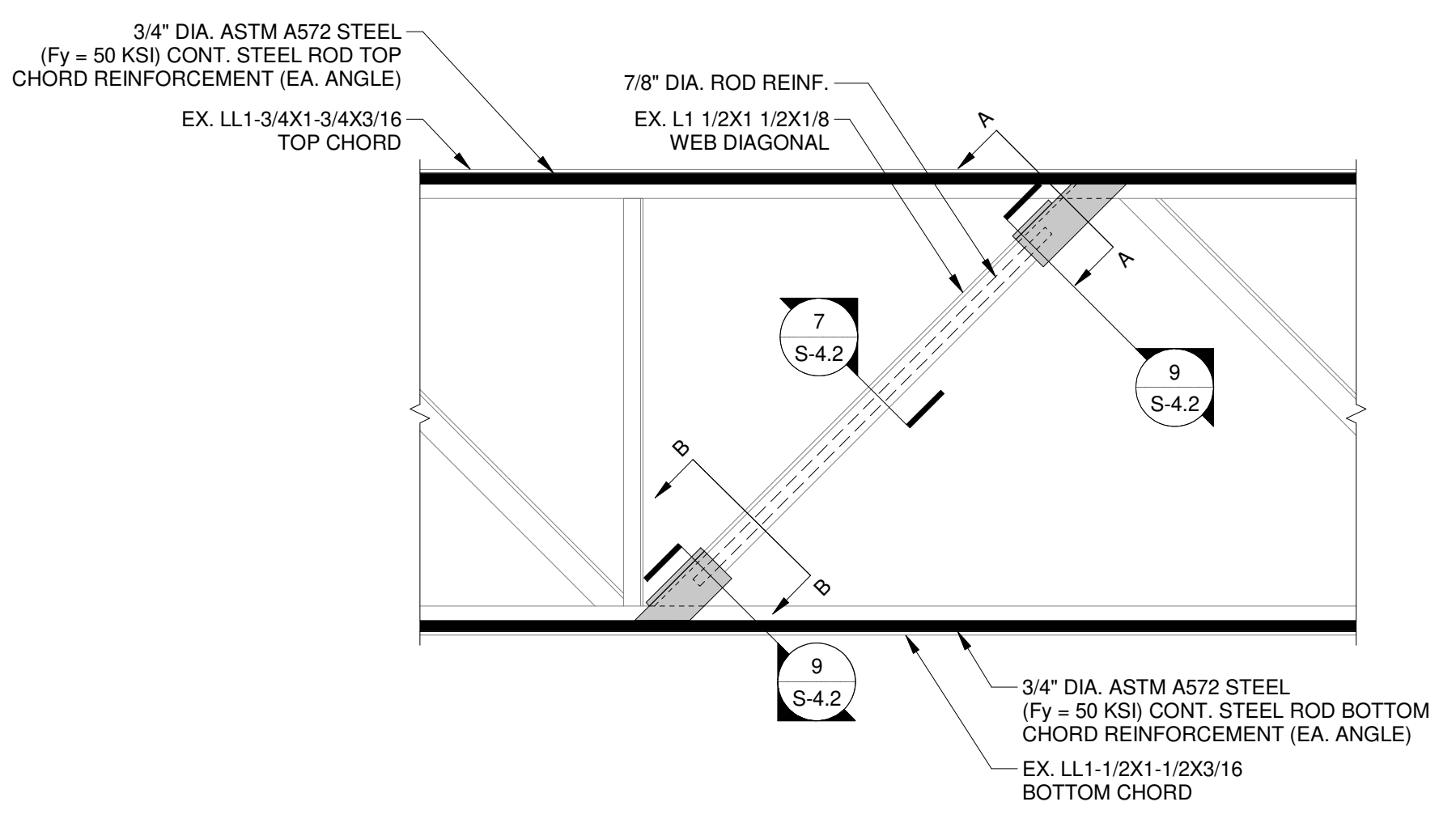
8 JOIST SEAT REINFORCEMENT
 1 1/2" = 1'-0"



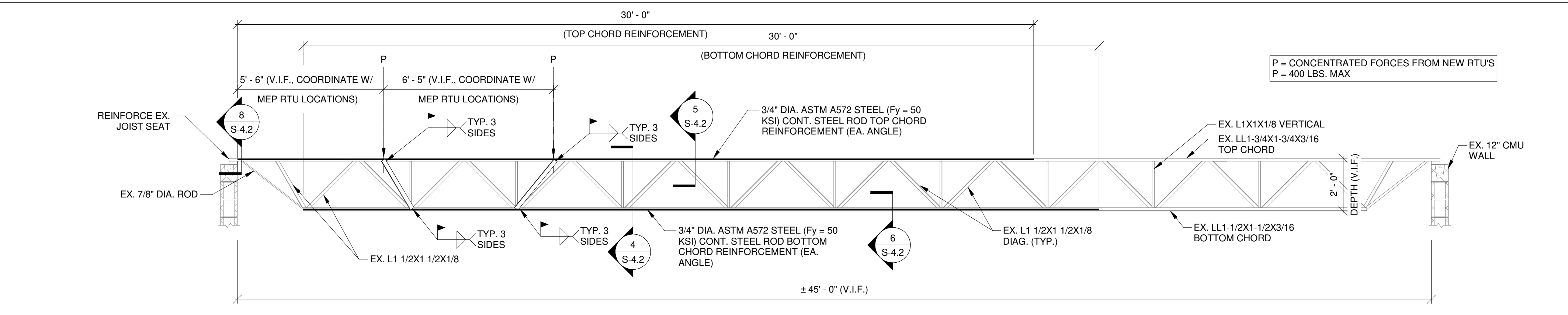
9 TYP. WEB CONNECTION REINFORCEMENT
 1 1/2" = 1'-0"



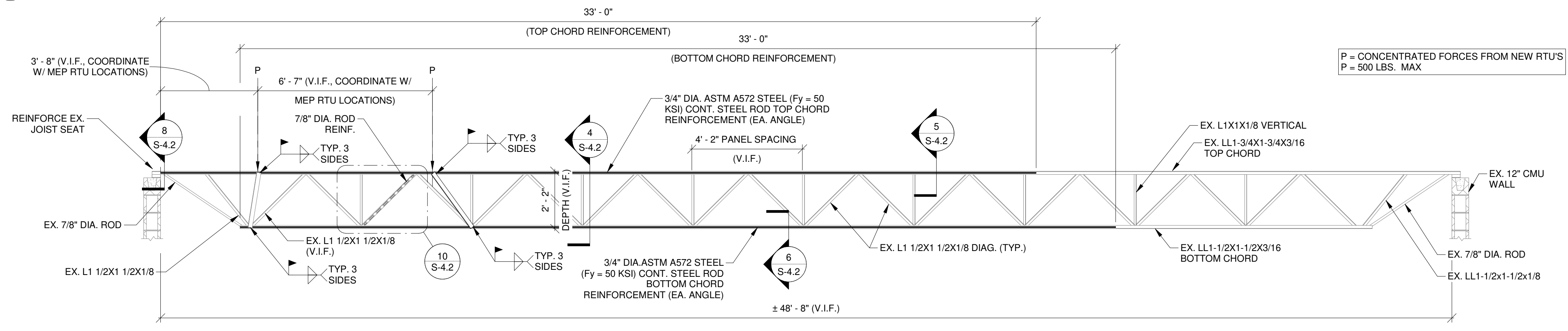
10 TYPICAL ANGLE WEB REINFORCEMENT ELEVATION VIEW
 1 1/2" = 1'-0"



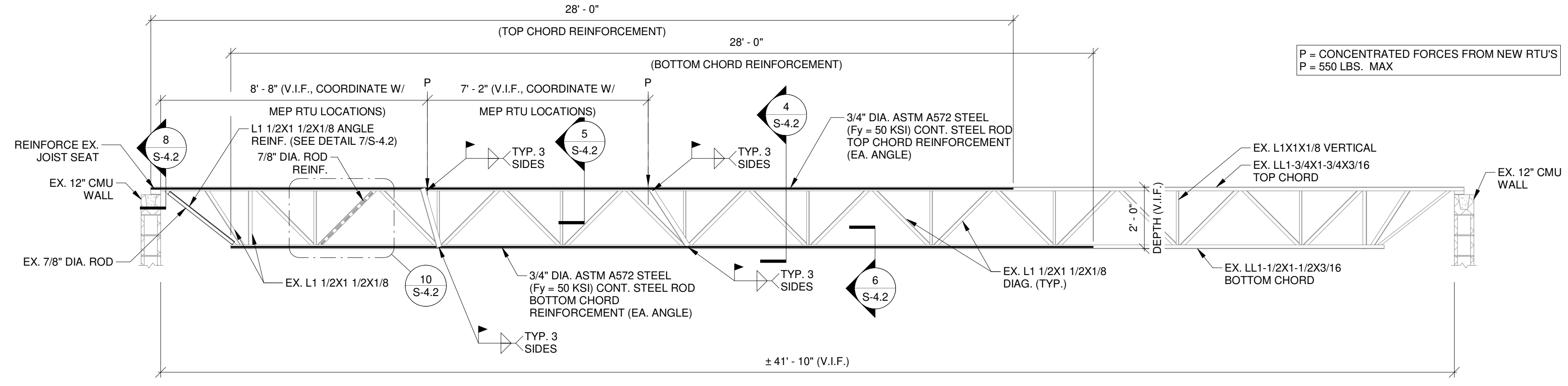
1 EX. OPEN WEB STEEL JOIST 24" DEEP (±45' - 0")
 3/8" = 1'-0"



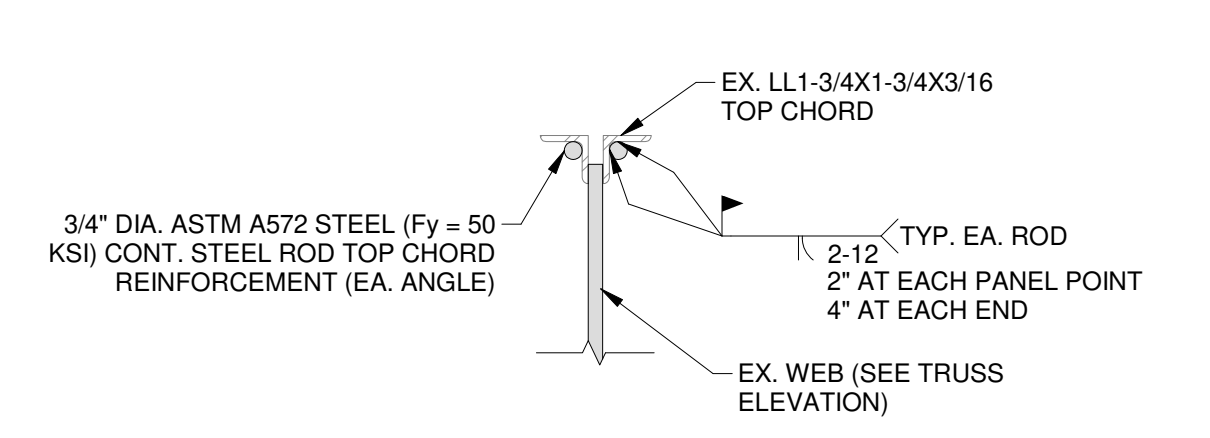
2 EX. OPEN WEB STEEL JOIST 26" DEEP (±48' - 8")
 3/8" = 1'-0"



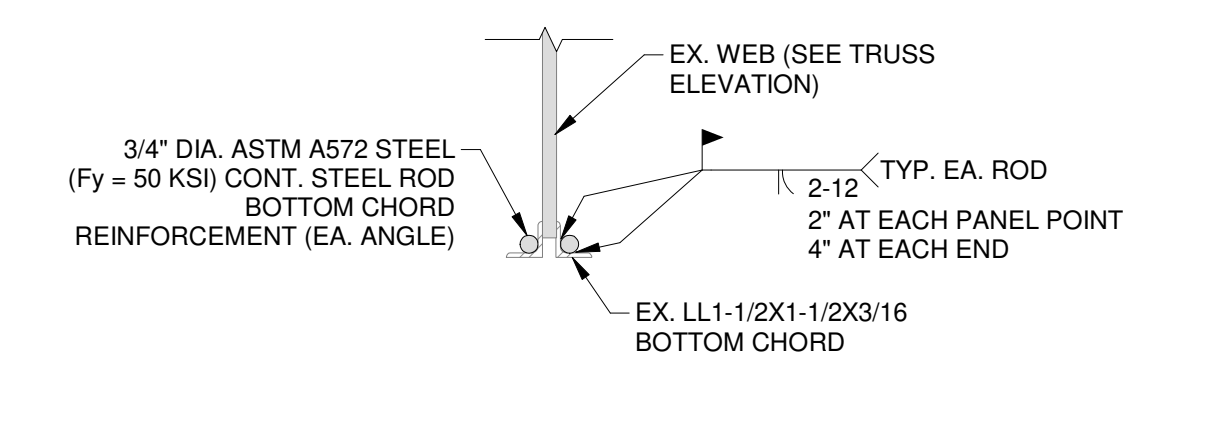
3 EX. OPEN WEB STEEL JOIST 24" DEEP (±42' - 0")
 3/8" = 1'-0"



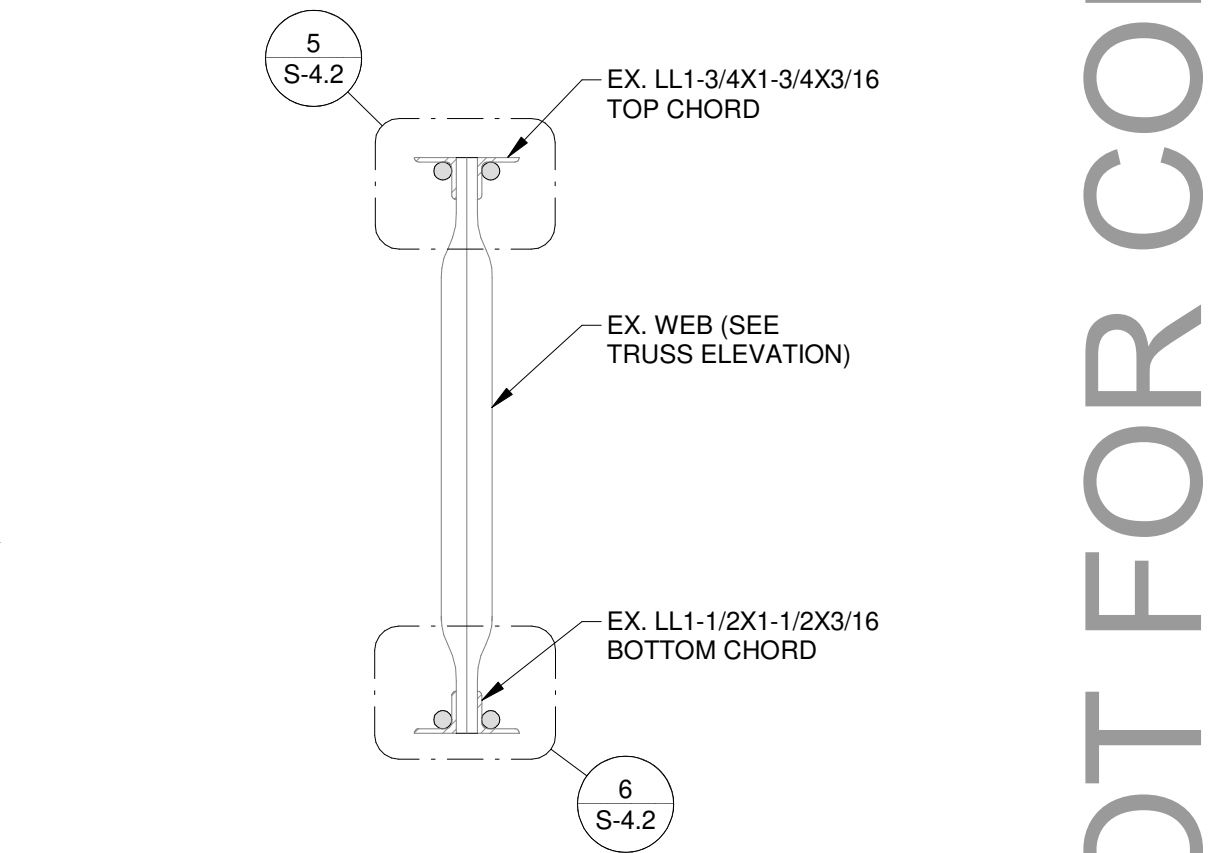
5 STEEL OPEN WEB JOIST TOP CHORD REINF.
 1 1/2" = 1'-0"



6 STEEL OPEN WEB JOIST BOTTOM CHORD REINF.
 1 1/2" = 1'-0"

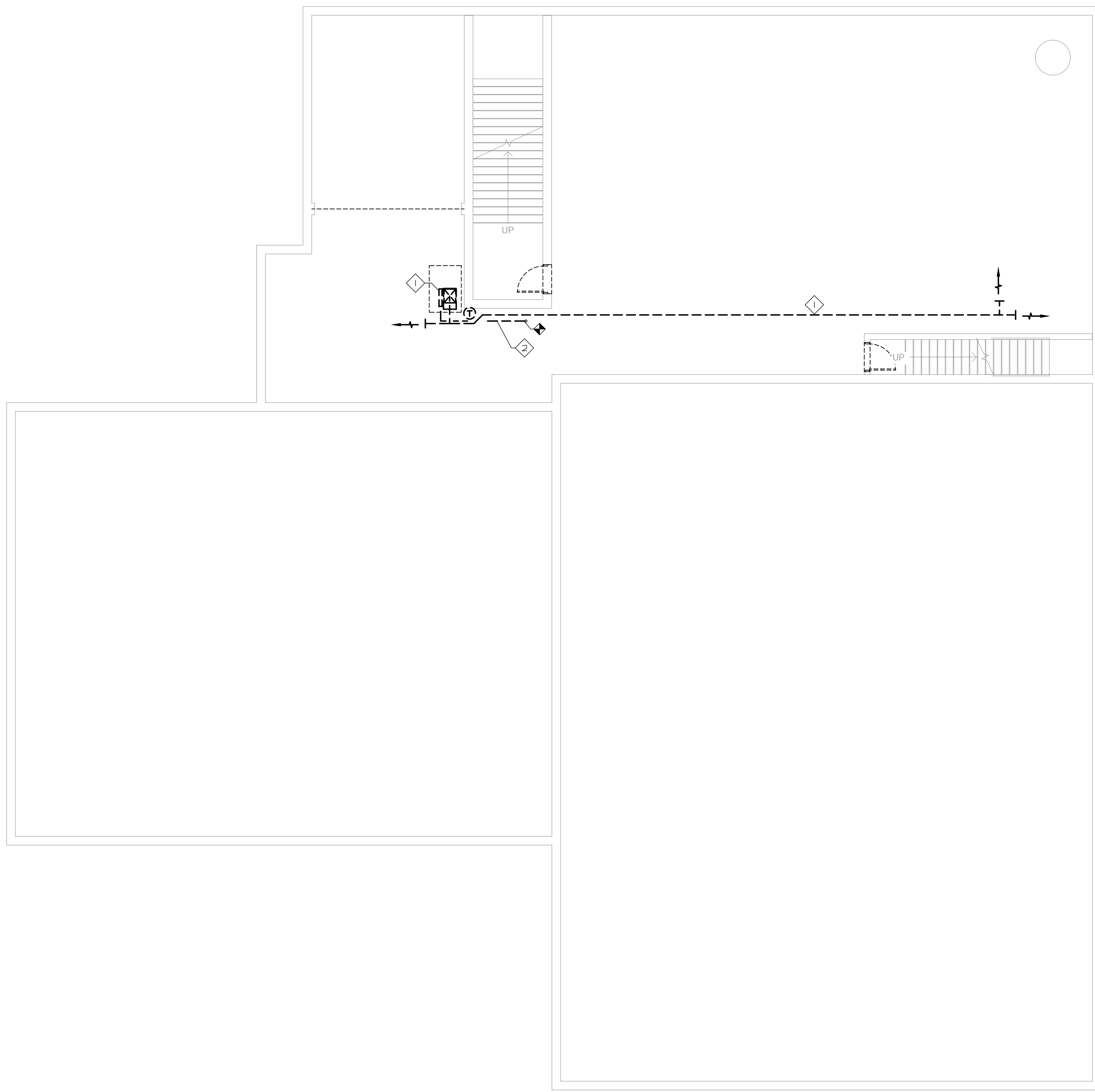


4 STEEL OPEN WEB JOIST REINFORCEMENT
 1 1/2" = 1'-0"



JEFF S. GUTOWSKY
 35509-006
 WISCONSIN REGISTERED PROFESSIONAL ENGINEER
 EXP.: 07/31/2022

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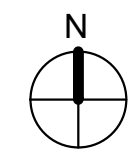
DEMOLITION KEYED NOTES

1 REMOVE EXISTING FURNACE AND ALL ASSOCIATED DUCTWORK, HANGERS AND REFRIGERANT AND DRAIN PIPING. REMOVE THERMOSTAT AND WIRING.

2 REMOVE GAS PIPING TO FURNACE. LEAVE STUB AT CEILING FOR NEW GAS CONNECTION. SEE NEW WORK PLANS.

3 REMOVE GAS PIPING TO FURNACE. LEAVE STUB AT CEILING FOR NEW GAS CONNECTION. SEE NEW WORK PLANS.

1 MECHANICAL BASEMENT PLAN - DEMOLITION
SCALE 1/8" = 1'-0"



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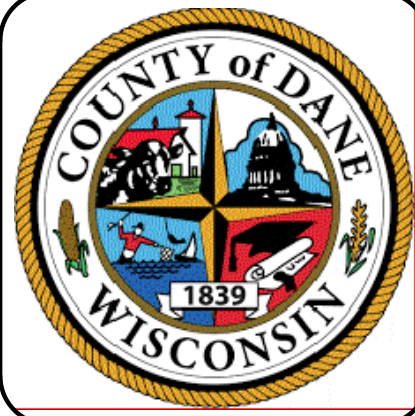
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FITCHBURG, WISCONSIN

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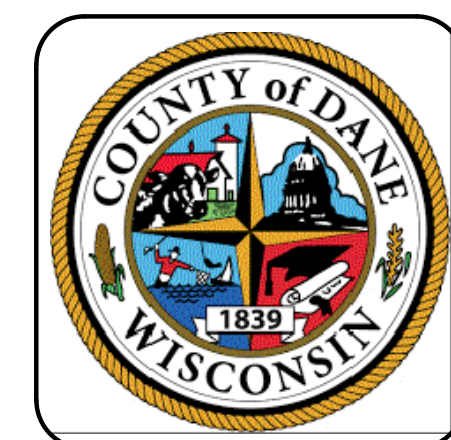
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HVAC REDESIGN	04/30/21
ISSUE FOR BID	06/08/21

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MECHANICAL BASEMENT PLAN - DEMOLITION
MD1.0

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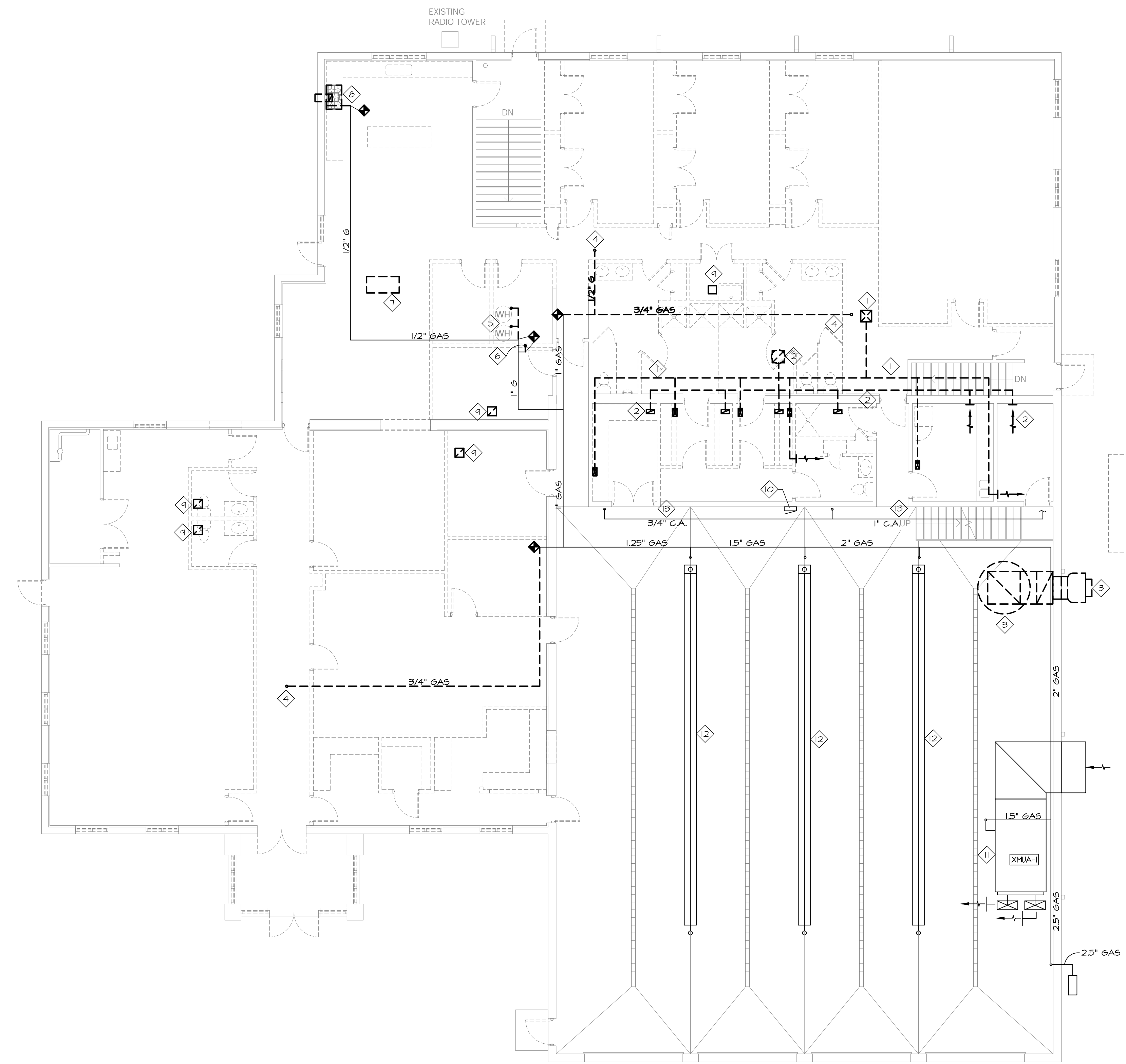
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MECHANICAL PLAN - DEMOLITION
 MD1.1

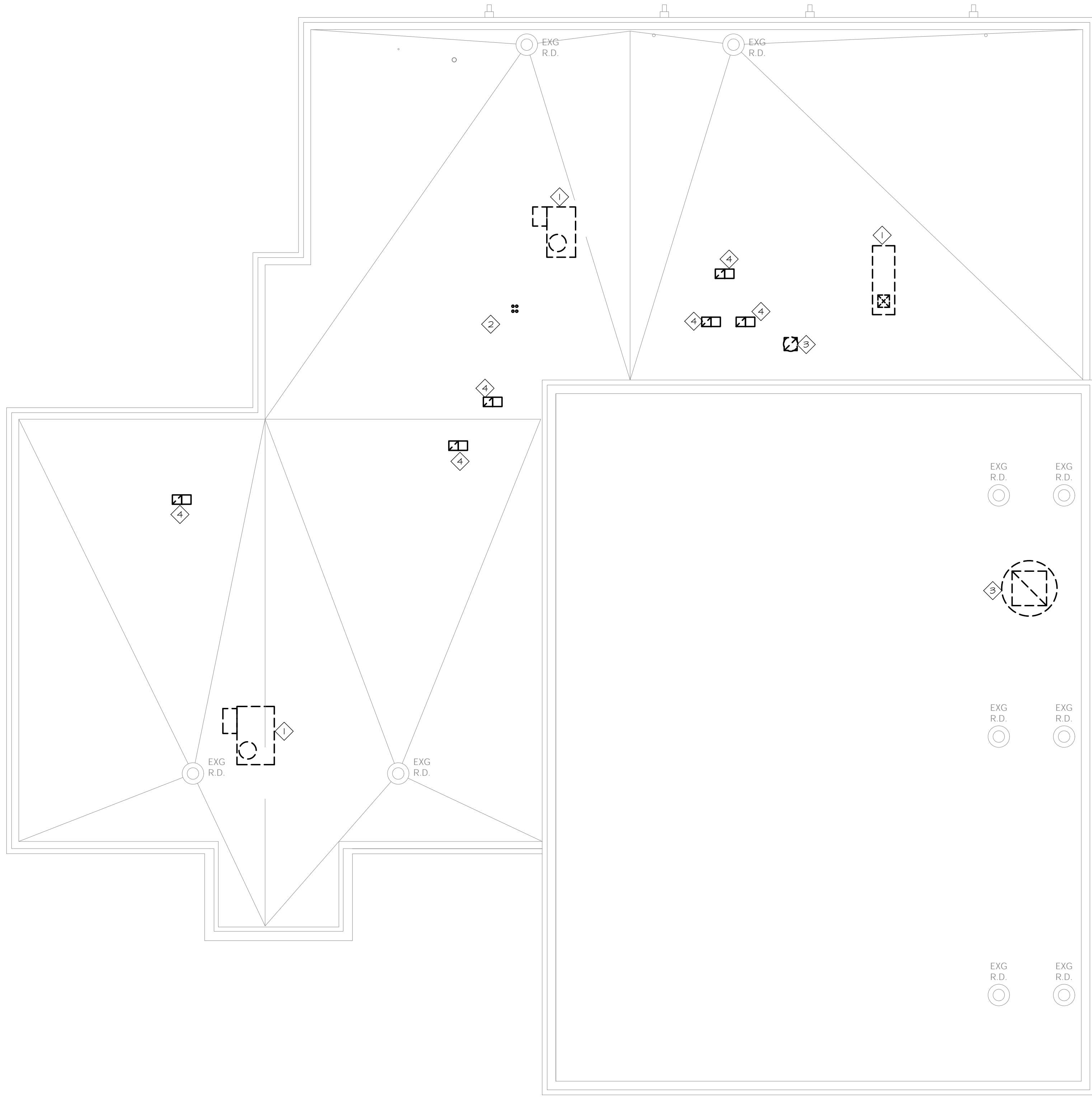


- GENERAL DEMOLITION NOTES:**
 1. PATCH SURFACES TO MATCH EXISTING IN ALL WALLS, FLOORS, CEILING AND ROOF WHERE EXISTING EQUIPMENT, DUCTWORK AND PIPING IS REMOVED
- DEMOLITION KEYED NOTES**
- 1 COMPLETELY REMOVE ALL EXISTING SUPPLY AIR DUCTWORK AND ASSOCIATED AIR DEVICES.
 - 2 REMOVE EXISTING EXHAUST AIR DUCTWORK AND ASSOCIATED AIR DEVICES.
 - 3 REMOVE EXISTING ROOF MOUNTED AND WALL MOUNTED EXHAUST FANS AND ASSOCIATED DUCTWORK.
 - 4 REMOVE SECTION OF GAS PIPING UP TO RTU.
 - 5 REMOVE GAS PIPING FROM WATER HEATERS BACK TO MAIN AND CAP.
 - 6 COMPLETELY REMOVE GAS PIPING DOWN IN WALL TO BASEMENT.
 - 7 COMPLETELY REMOVE EXISTING CEILING MOUNTED AIR CLEANER UNIT.
 - 8 REMOVE EXISTING RANGE HOOD AND ASSOCIATED DUCTWORK. REMOVE GAS PIPING TO RANGE BACK TO LOCATION SHOWN. SEE NEW WORK PLAN FOR RECONNECTION TO NEW RANGE.
 - 9 REMOVE EXISTING CEILING MOUNTED EXHAUST FAN AND ALL ASSOCIATED DUCTWORK.
 - 10 EXISTING GAS DETECTION CONTROL PANEL AND SYSTEM TO REMAIN. CONTRACTOR SHALL VERIFY PROPER OPERATION OF ALL COMPONENTS AND REPORT ANY DEFICIENCIES TO OWNER FOR DIRECTION.
 - 11 EXISTING MAKE-UP AIR UNIT TO REMAIN. CONTRACTOR SHALL VERIFY PROPER OPERATION OF ALL COMPONENTS AND REPORT ANY DEFICIENCIES TO OWNER FOR DIRECTION.
 - 12 EXISTING GAS FIRED RADIANT HEATERS TO REMAIN. CONTRACTOR SHALL VERIFY PROPER OPERATION OF ALL COMPONENTS AND REPORT ANY DEFICIENCIES TO OWNER FOR DIRECTION.
 - 13 EXISTING COMPRESSED AIR PIPING AND DROPS TO REMAIN. SEE NEW WORK PLAN FOR RECONNECTION OF PIPING TO RELOCATED AIR COMPRESSOR.

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1 MECHANICAL PLAN - DEMOLITION
 SCALE 1/8" = 1'-0"

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- DEMOLITION KEYED NOTES**
- 1 COMPLETELY REMOVE EXISTING ROOFTOP UNITS AND ALL ASSOCIATED DUCTWORK, GAS PIPING AND CONTROLS.
 - 2 REMOVE PVC VENTING FROM WATER HEATER AND FURNACE.
 - 3 REMOVE EXISTING EXHAUST FAN AND ASSOCIATED DUCTWORK.
 - 4 REMOVE EXISTING GOOSENECK AND ASSOCIATED DUCTWORK.

1 MECHANICAL ROOF PLAN - DEMOLITION
 SCALE 1/8" = 1'-0"

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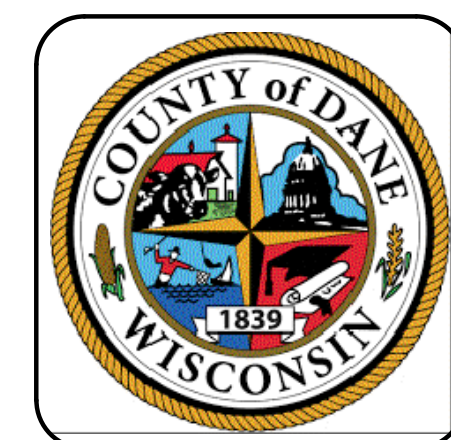
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MECHANICAL ROOF PLAN - DEMOLITION
 MD1.2



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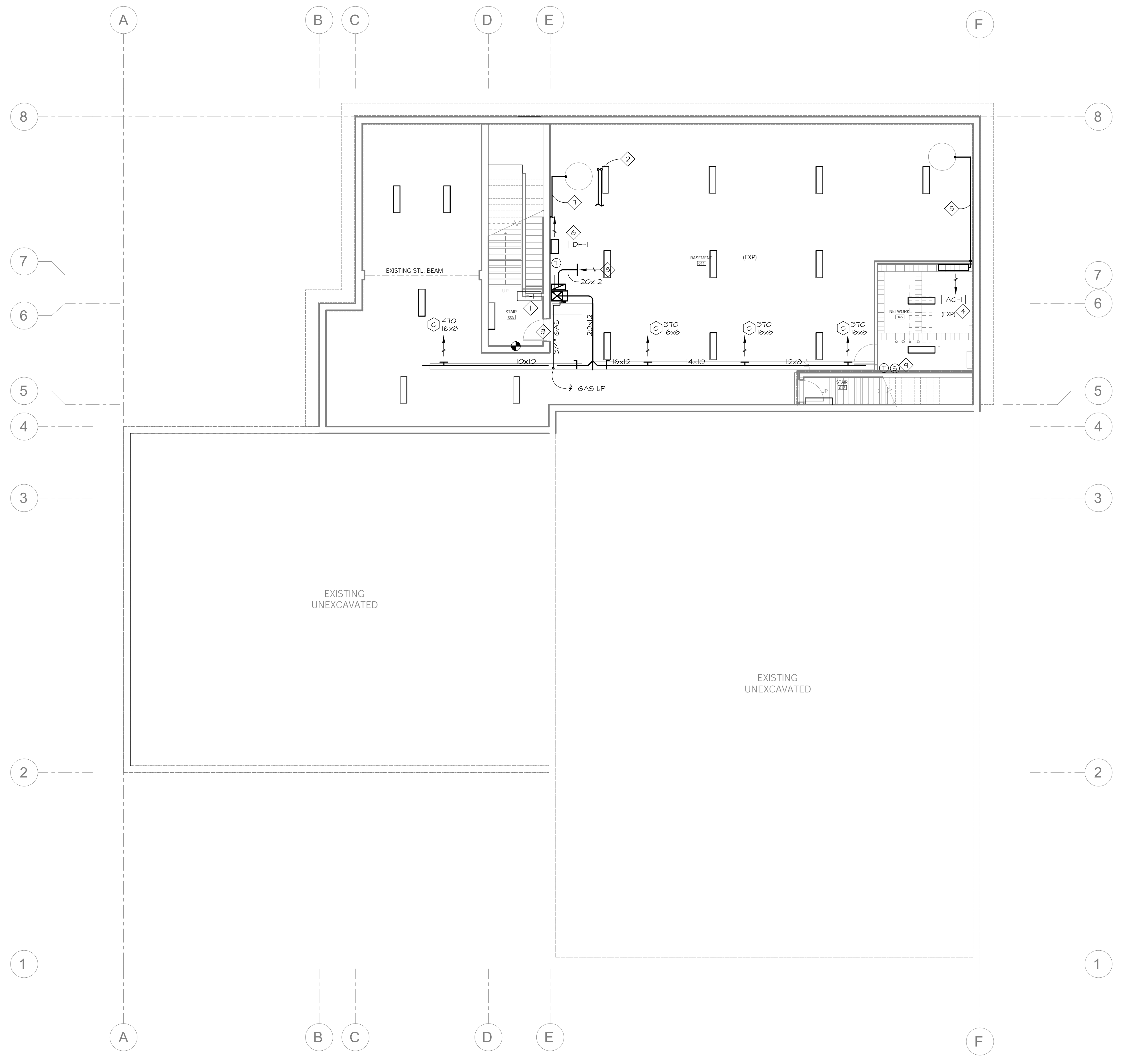
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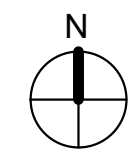
MECHANICAL BASEMENT PLAN - NEW WORK
M1.0

SEE SYMBOL LIST ON SHEET M2.1 FOR ABBREVIATIONS AND EQUIPMENT TAGGING
 SEE AIR DEVICE SCHEDULE ON SHEET M2.0

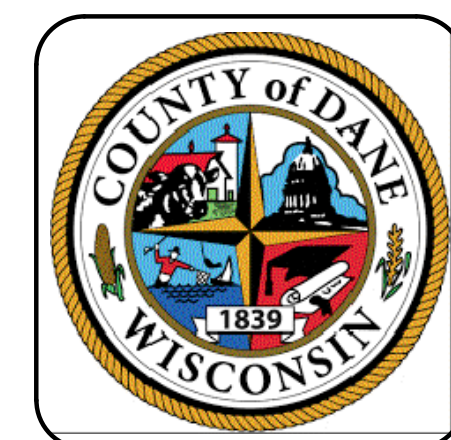
- NEW WORK KEYED NOTES**
- 1 SET NEW FURNACE ON CONCRETE MAINTENANCE PAD WITH VIBRATION ISOLATION PADS. PROVIDE EXPOSED SUPPLY AND RETURN DUCTWORK ROUTED AS HIGH AS POSSIBLE.
 - 2 PROVIDE PVC VENT AND INTAKE PIPING FROM NEW FURNACE AND ROUTE UP IN CHASE ON FLOOR ABOVE.
 - 3 PROVIDE NEW GAS PIPING TO FURNACE FROM NEW GAS RISER AT CEILING. PROVIDE REGULATOR, GAS COCK, UNION AND DRIP LEG.
 - 4 MOUNT DUCTLESS SPLIT INDOOR UNIT ON WALL AT 12" A.F.F. COORDINATE EXACT LOCATION WITH DATA EQUIPMENT TRAYS.
 - 5 PROVIDE 3/4" PVC DRAIN PIPING FROM AC-1 AND ROUTE TO SUMP PIT. ROUTE DOWN TO FLOOR OUTSIDE OF DATA ROOM.
 - 6 PROVIDE 32"x20" SHELF FOR DEHUMIDIFIER AT 12" A.F.F. MAINTAIN MFR. REQUIRED CLEARANCES FOR AIRFLOW AND MAINTENANCE.
 - 7 PROVIDE 3/4" PVC DRAIN PIPING FROM FURNACE AND DEHUMIDIFIER. ROUTE TIGHT ALONG WALL TO SUMP PIT.
 - 8 PROVIDE OPEN ENDED DUCT WITH WIRE MESH SCREEN.
 - 9 PROVIDE TEMPERATURE SENSOR WIRED TO BAS TO MONITOR SPACE TEMPERATURE.



1 MECHANICAL BASEMENT PLAN - NEW WORK
 SCALE 1/8" = 1'-0"



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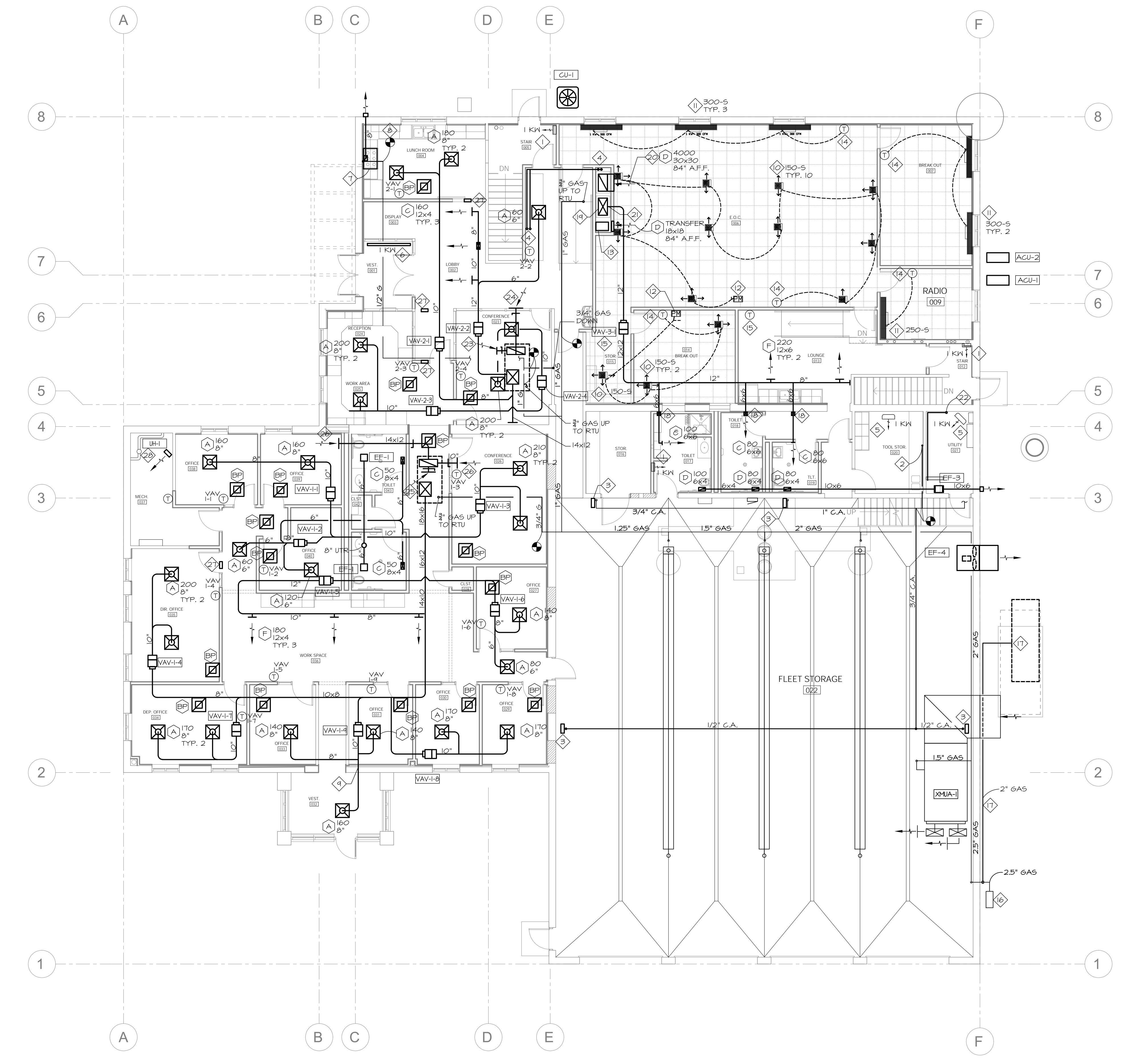
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MECHANICAL PLAN - NEW WORK
 M1.1



SEE SYMBOL LIST ON SHEET M2.1 FOR ABBREVIATIONS AND EQUIPMENT TAGGING
 SEE AIR DEVICE SCHEDULE ON SHEET M2.0

NEW WORK KEYED NOTES

- 1 ELECTRIC WALL HEATER FURNISHED AND INSTALLED BY THE ELECTRICAL CONTRACTOR.
- 2 PROVIDE 1/2" COMPRESSED AIR DROP WITH SHUT-OFF VALVE AND QUICK CONNECT FITTING. PROVIDE AN ADJUSTABLE PRESSURE REGULATOR NEAR TERMINATION OF DROP.
- 3 PROVIDE HOSE REEL EQUAL TO "REELCRAFT" SERIES 5005 WITH 50 FT. OF 3/8" HOSE AND QUICK DISCONNECT. PROVIDE 1/2" COMPRESSED AIR PIPING TO HOSE REEL. VERIFY EXACT LOCATION OF COMPRESSED AIR REELS IN FIELD WITH THE OWNER. PROVIDE AN ADJUSTABLE PRESSURE REGULATOR AT CONNECTION TO HOSE REEL.
- 4 FURNACE PVC VENT AND INTAKE PIPING UP AND DOWN. OFFSET AT CEILING AND ROUTE UP THRU ROOF.
- 5 ELECTRIC UNIT HEATER FURNISHED AND INSTALLED BY THE ELECTRICAL CONTRACTOR.
- 6 ELECTRIC PEDESTAL HEATER FURNISHED AND INSTALLED BY THE ELECTRICAL CONTRACTOR.
- 7 PROVIDE 36" WIDE RANGE HOOD EQUAL TO BROAN MODEL BCSDI. 250 CFM, 2 SPEED FAN WITH LIGHTS. 1.4 AMP, 120-1-60. PROVIDE EXHAUST DUCT FROM HOOD CONNECTION TO WALL CAP.
- 8 PROVIDE 1/2" GAS PIPING FROM EXISTING TO NEW RANGE. PROVIDE REGULATOR, GAS COCK, DRIP LEG AND FLEX CONNECTOR.
- 9 REUSE EXISTING OPENING THRU MASONRY WALL. VERIFY EXACT SIZE AND LOCATION OF EXISTING OPENING IN FIELD.
- 10 PROVIDE 10" VAV UNDERFLOOR AIR TERMINAL EQUAL TO AIRFIXTURE TYPE MTS-C5H. 10"x10" VAV DIFFUSERS RATED FOR 24V. PROVIDE THE APPROPRIATE INTERCONNECTING WIRING WITH AIRFIXTURE PROVIDED PLUG & PLAY CABLE AND POWER MODULES. REFER TO DETAIL ON SHEET M3.0. BALANCE TO AIRFLOW SHOWN.
- 11 PROVIDE VAV UNDERFLOOR AIR DISTRIBUTION LINEAR TERMINAL UNIT EQUAL TO AIRFIXTURE TYPE CLEMIT, MODEL CLE-08-072-08-40-12-10-1VL. TERMINAL UNIT RATED FOR 120V. PROVIDE WITH 1 KW ELECTRIC ELEMENT (120-1-60). FLANGED LINEAR GRILLE. 12" Lx20" Wx4" H. PROVIDE THE APPROPRIATE INTERCONNECTING WIRING WITH AIRFIXTURE PROVIDED PLUG & PLAY CABLE AND POWER MODULES. REFER TO DETAIL ON SHEET M3.0. BALANCE TO AIRFLOW SHOWN ON PLAN.
- 12 UNDERFLOOR POWER MODULE JUNCTION BOX. EQUAL TO AIRFIXTURE MODEL PM-4. REFER TO DETAIL ON SHEET M3.0.
- 13 PROVIDE UNDERFLOOR FAN TERMINAL UNIT (COOLING ONLY) EQUAL TO AIRFIXTURE MODEL UFD-15-5-EC-12-000. 15" HIGH, 1200 CFM, VARIABLE SPEED EC MOTOR, 120 VOLT. INTERLOCK WITH RT-4 OPERATION.
- 14 THERMOSTAT ZONE CONTROLLER EQUAL TO AIRFIXTURE MODEL TEC-3622. TOUCHSCREEN DISPLAY. BAGNET COMPATIBLE. PROPORTIONAL POSITION CONTROL.
- 15 PROVIDE VAV BOX IN SUPPLY DUCT. DAMPER AND REHEAT COIL SHALL BE CONTROLLED BY BAS THRU THE THERMOSTAT.
- 16 APPROXIMATE LOCATION OF EXISTING GAS METER. CONTRACTOR SHALL CONTACT THE LOCAL GAS PROVIDER TO DETERMINE IF THE EXISTING METER HAS SUFFICIENT CAPACITY FOR THE NEW GAS LOAD. THE CONTRACTOR SHALL ORDER A NEW METER IF REQUIRED AND PROVIDE ALL REQUIRED DOCUMENTS. THE GAS METER SHALL PROVIDE 2 PSIG PRESSURE. THE CONTRACTOR SHALL PROVIDE ALL NEW DOWNSTREAM PIPING INCLUDING ALL VALVES, REGULATORS, SUPPORTS, HANGERS AND ANY ASSOCIATED APPARATUS.
- 17 PROVIDE NEW GAS PIPING TO NEW GENERATOR FROM EXISTING HEADER AT GAS METER. ROUTE ALONG EXTERIOR WALL. PROVIDE NEW "SENSUS" REGULATOR SIZED FOR GENERATOR FLOW RATE AND REQUIRED INLET PRESSURE. PROVIDE GAS COCK, UNION AND DRIP LEG. INSTALL GAS PIPING PER GENERATOR MFR. RECOMMENDATIONS. (3400 CFH)
- 18 ROUTE DUCT THRU MEZZANINE. RE-USE EXISTING OPENINGS THRU MASONRY WALL AND CONCRETE PLANK FLOOR OF MEZZANINE. SEE MEZZANINE PLAN.
- 19 ROUTE 30x16 SUPPLY RISER DOWN TO FLOOR AND ELBOW TOWARDS CENTER OF E.O.C. OPEN ENDED DUCT WITH WIRE MESH SCREEN.
- 20 30x16 RETURN AIR RISER FROM RTU. PROVIDE DUCTING TO RETURN AIR GRILLE. VERIFY EXACT ELEVATION OF RETURN GRILLE WITH ARCHITECTURAL PLANS.
- 21 PROVIDE BRANCH TAKE-OFF WITH SCOOP DAMPER.
- 22 3/4" DRAIN FROM AC UNIT ABOVE. ROUTE TO MOP SINK.
- 23 PROVIDE A 10x10 RETURN DUCT STUB WITH MVD ABOVE CONFERENCE ROOM CEILING. PROVIDE WIRE MESH SCREEN.
- 24 PROVIDE 16x12 RETURN DUCT FROM RTU RISER. ROUTE THRU WALL AND PROVIDE A 22x14 TYPE D WALL GRILLE.
- 25 PROVIDE A 24x14 RETURN DUCT STUB FROM RISER WITH MVD ABOVE CEILING. PROVIDE WIRE MESH SCREEN ON INLET.
- 26 PROVIDE OPEN ENDED RETURN DUCT STUB WITH MVD ABOVE CEILING. PROVIDE WIRE MESH SCREEN ON INLET.
- 27 PROVIDE 12x12 TRANSFER OPENING THRU WALL AS HIGH AS POSSIBLE. PROVIDE WIRE MESH SCREEN ON BOTH SIDES.
- 28 HOT WATER UNIT HEATER. SEE HOT WATER PIPING PLAN AND PIPING DETAIL.

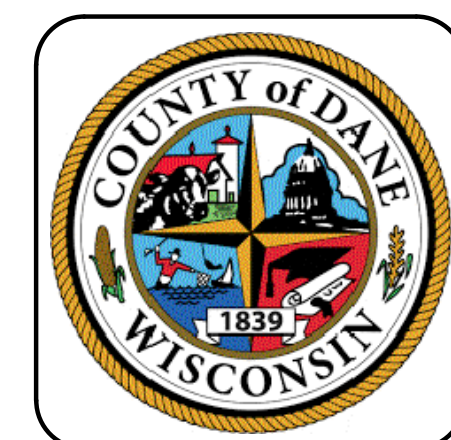


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1 MECHANICAL PLAN - NEW WORK
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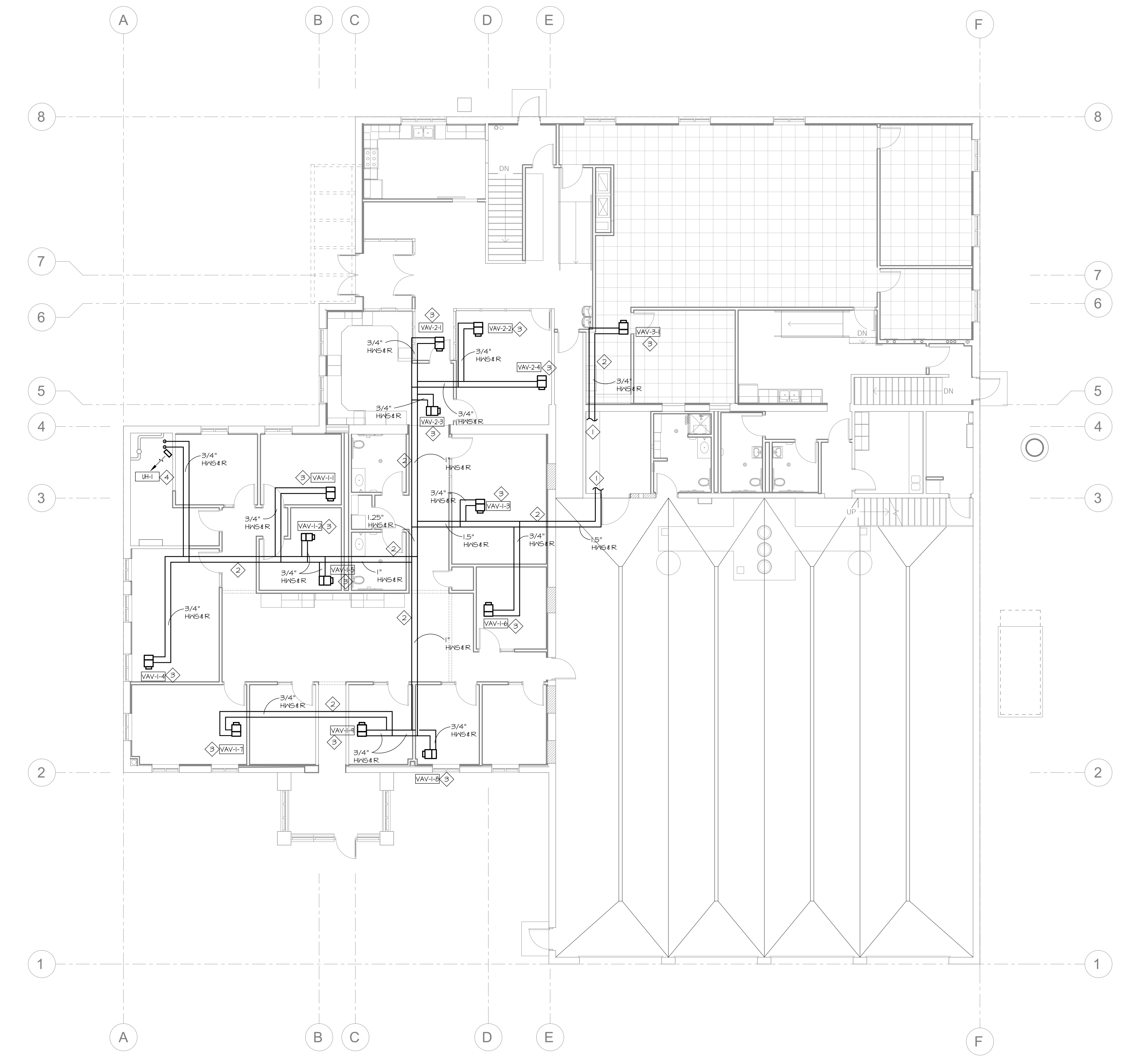
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MECHANICAL PIPING PLAN - NEW WORK
 M1.2



CONTRACTOR SHALL COORDINATE ALL NEW AND EXISTING DUCTWORK, PIPING, AND OTHER EQUIPMENT WITH ALL OTHER TRADES AND BUILDING SYSTEMS

NEW WORK KEYED NOTES

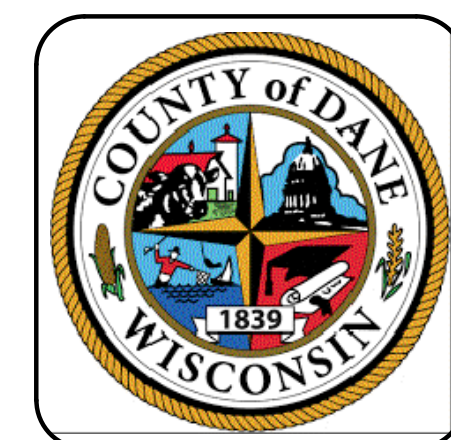
- 1 PIPING FROM BOILER ON MEZZANINE. SEE MEZZANINE PLAN FOR LOCATION OF BOILER AND ASSOCIATED PUMPS.
- 2 ROUTE HOT WATER PIPING IN JOIST SPACE.
- 3 PROVIDE PIPING TO VAV BOX PER DETAIL ON SHEET M2.2
- 4 PROVIDE PIPING TO UNIT HEATER PER DETAIL ON SHEET M2.2

1 MECHANICAL PIPING PLAN - NEW WORK
 SCALE 1/8" = 1'-0"

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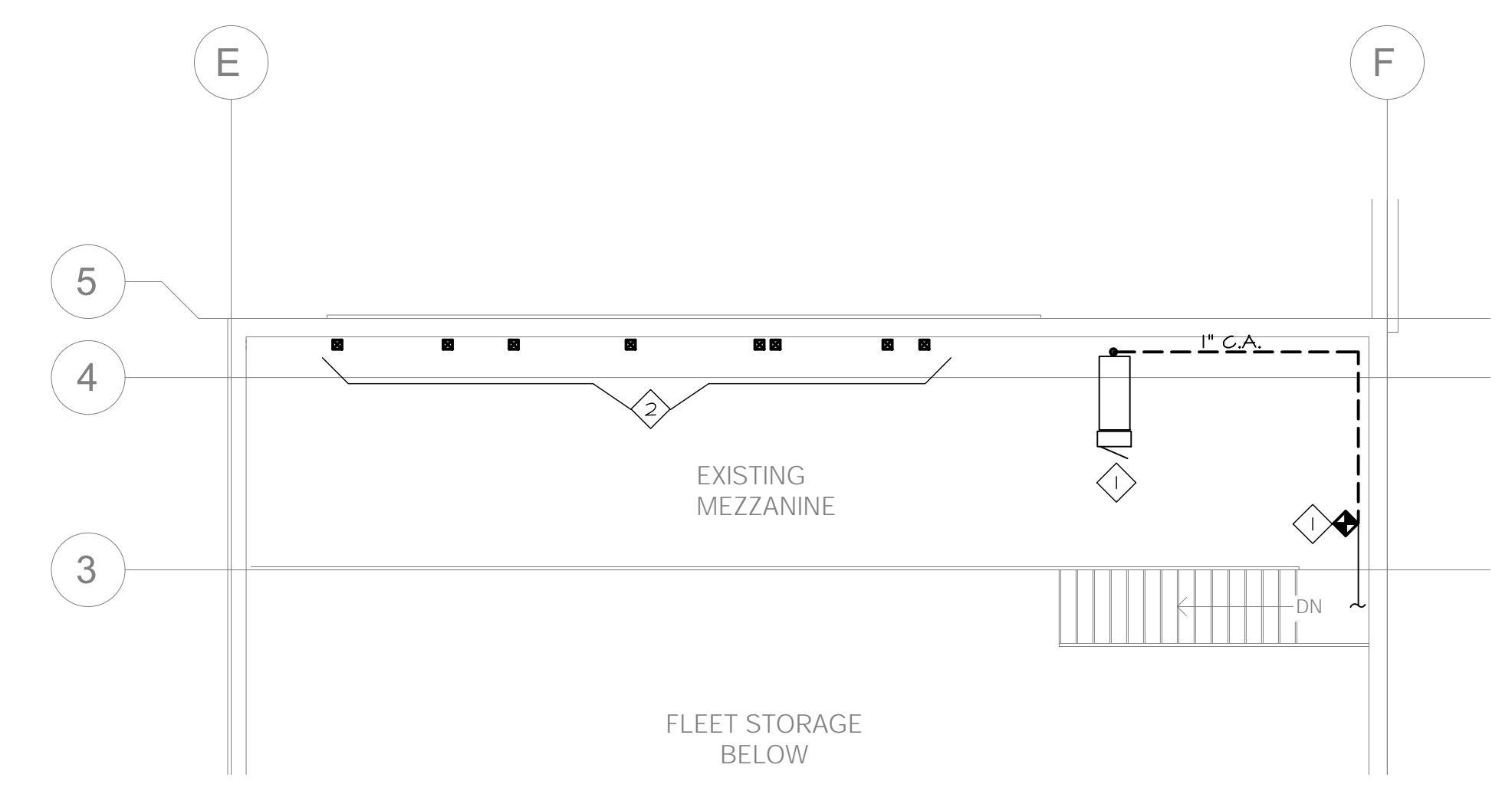
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MEZZANINE PLAN - DEMO AND NEW WORK
M1.3

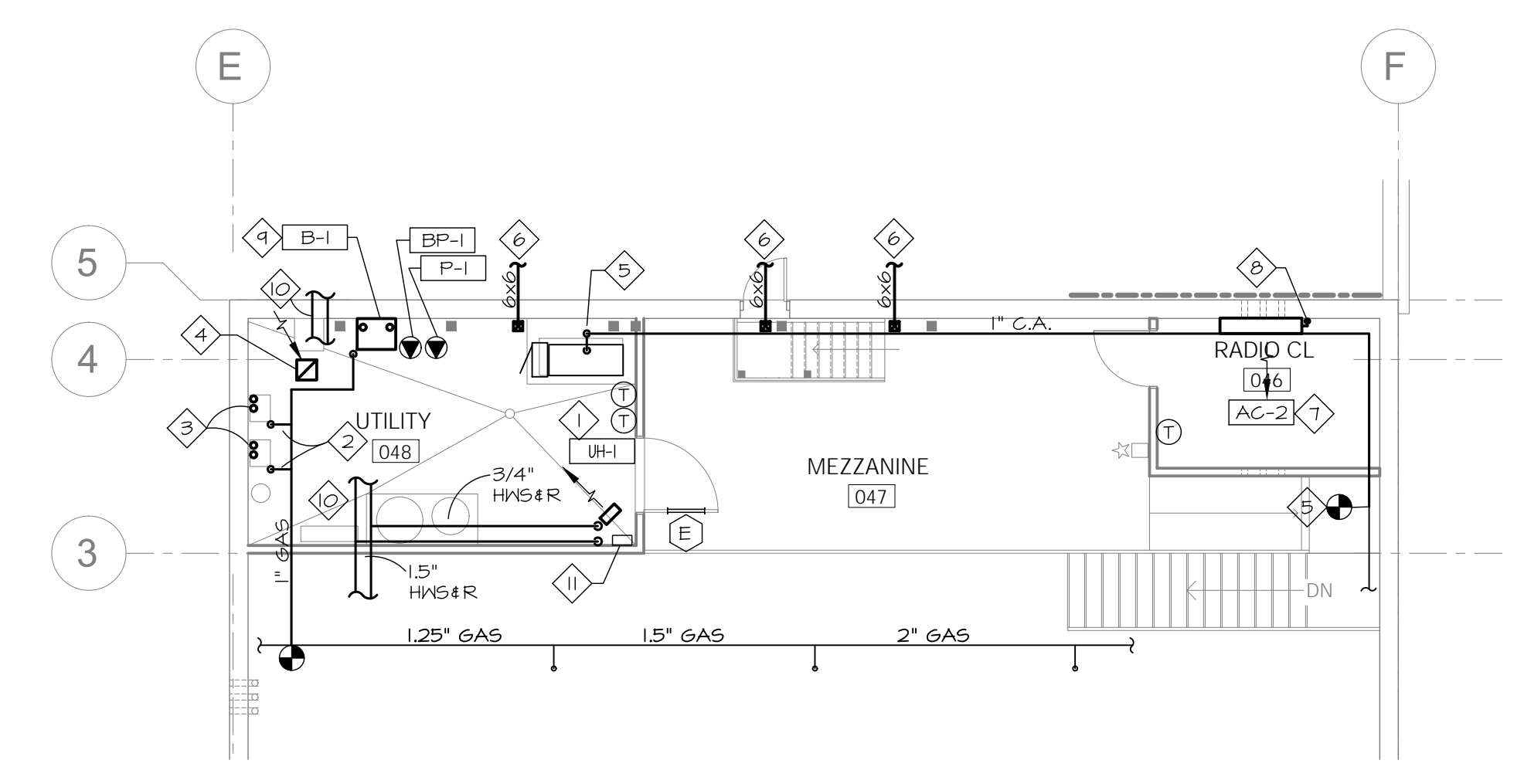
- DEMOLITION KEYED NOTES**
- 1 RELOCATE EXISTING AIR COMPRESSOR TO NEW UTILITY ROOM. SEE SHEET M1.3. REMOVE COMPRESSED AIR PIPING AT UNIT BACK TO MAIN AT CEILING.
 - 2 REMOVE EXISTING DUCTWORK PENETRATING MEZZANINE WALL AND FLOOR SLAB. SEE STRUCTURAL AND ARCHITECTURAL DRAWINGS FOR PATCHING OF WALL AND FLOOR OPENINGS.



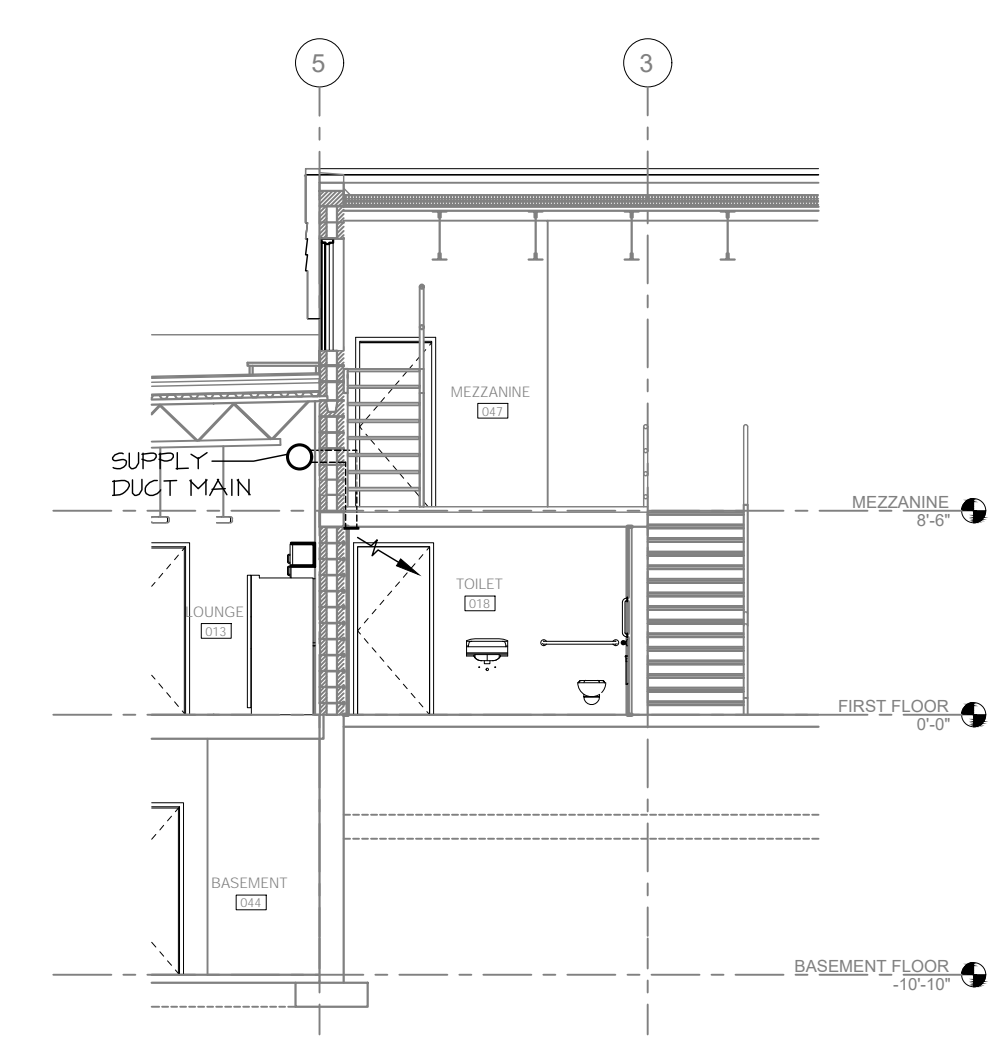
1 MECHANICAL MEZZANINE PLAN - DEMOLITION
SCALE 1/8" = 1'-0"
N

SEE SYMBOL LIST ON SHEET M2.1 FOR ABBREVIATIONS AND EQUIPMENT TAGGING
SEE AIR DEVICE SCHEDULE ON SHEET M2.0

- NEW WORK KEYED NOTES**
- 1 HOT WATER UNIT HEATER. SEE HOT WATER PIPING PLAN AND PIPING DETAIL.
 - 2 PROVIDE 3/4" GAS PIPING TO WATER HEATER WITH REGULATOR, GAS COCK, UNION AND DRIP LEG.
 - 3 PROVIDE VENT AND INTAKE FROM WATER HEATER AND ROUTE UP THRU ROOF. PROVIDE CONCENTRIC TERMINATION PER MFR. RECOMMENDATIONS.
 - 4 OPEN ENDED DUCT FROM EF ON ROOF. PROVIDE WIRE MESH SCREEN ON INLET.
 - 5 RELOCATED AIR COMPRESSOR. PROVIDE NEW COMPRESSED AIR PIPING TO EXISTING MAIN. VERIFY EXACT SIZE AND LOCATION OF CONNECTION AT COMPRESSOR AND EXISTING MAIN IN FIELD.
 - 6 ROUTE SUPPLY DUCTWORK FROM RTU-3 BELOW NEW STAIR AND DOWN THRU FLOOR. SEE 1ST FLOOR PLAN FOR CONTINUATION. SEE SECTION ON THIS SHEET.
 - 7 MOUNT DUCTLESS SPLIT INDOOR UNIT ON WALL AT 72" A.F.F. COORDINATE EXACT LOCATION WITH OTHER WALL MOUNTED EQUIPMENT.
 - 8 PROVIDE 3/4" PVC DRAIN PIPING FROM AC UNIT AND ROUTE DOWN THRU FLOOR. SEE SHEET M1.1 FOR CONTINUATION.
 - 9 PROVIDE 3/4" GAS PIPING TO BOILER WITH REGULATOR, GAS COCK, UNION AND DRIP LEG. PROVIDE VENT AND INTAKE FROM BOILER AND ROUTE UP THRU ROOF. PROVIDE CONCENTRIC TERMINATION PER MFR. RECOMMENDATIONS.
 - 10 HOT WATER PIPING TO VAV BOXES. SEE SHEET M1.1 FOR CONTINUATION.
 - 11 LOCATE BAS PANEL IN UTILITY ROOM. COORDINATE EXACT LOCATION WITH OTHER TRADES.



2 MECHANICAL MEZZANINE PLAN - NEW WORK
SCALE 1/8" = 1'-0"
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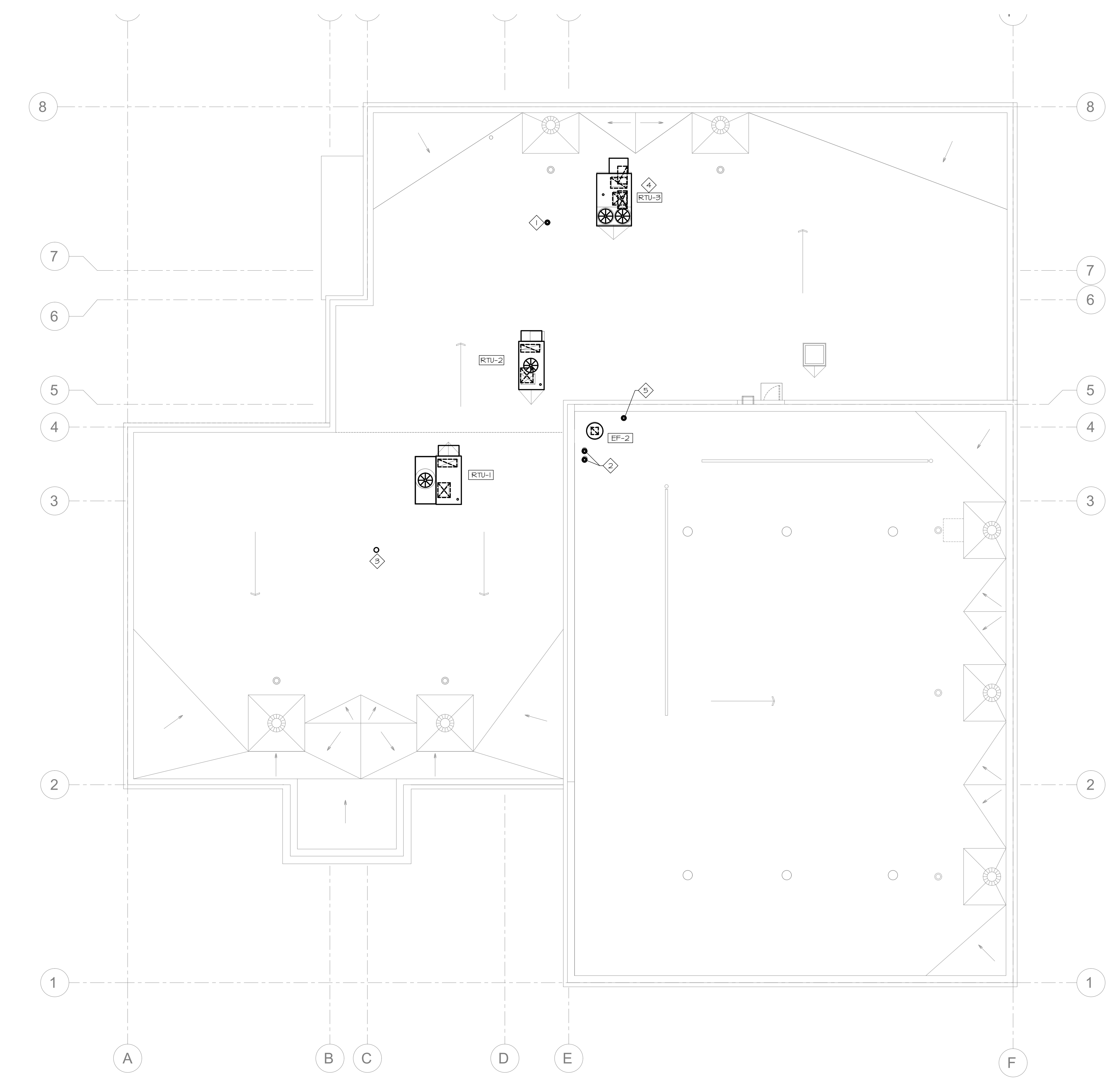


3 SECTION
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- NEW WORK KEYED NOTES**
- 1 CONCENTRIC VENT TERMINATION FROM FURNACE
 - 2 CONCENTRIC VENT TERMINATION FROM WATER HEATER
 - 3 GOOSENECK EXHAUST TERMINATION. SEE DETAIL 1M2.I.
 - 4 PROVIDE ADAPTER CURB TO ALLOW SUPPLY AND RETURN RISER TO DROP DIRECTLY DOWN IN CHASE BELOW. SEE SHEET M1.1.
 - 5 CONCENTRIC VENT TERMINATION FROM BOILER

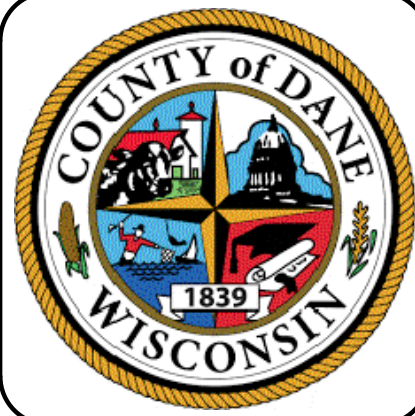
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**MECHANICAL
 ROOF PLAN -
 NEW WORK**
 M1.4

PACKAGED GAS HEATING / ELECTRIC COOLING ROOFTOP UNIT SCHEDULE

Table with columns: ITEM TAG, MANUFACTURER AND MODEL NUMBER, NOMINAL TONS, ARI SEER/EER, BLOWER SECTION, COOLING CAPACITY, HEATING CAP., ELECTRICAL DATA, AREA SERVING, UNIT WEIGHT (LBS), REMARKS.

REMARKS: 1. VERIFY EXACT VOLTAGE IN THE FIELD AND WITH ELECTRICAL CONTRACTOR PRIOR TO ORDERING. 2. MAINTAIN MANUFACTURER'S RECOMMENDED SERVICE CLEARANCES. 3. OUTSIDE AIR INTAKE SHALL BE A MINIMUM OF 10'-0" AWAY FROM ANY EXHAUST DISCHARGE.

AIR DEVICE SCHEDULE

Table with columns: ITEM TAG, MANUFACTURER AND MODEL NUMBER, TYPE, DESCRIPTION, REMARKS.

REMARKS: 1. PROVIDE OFFSET BLADE DAMPERS. 2. PROVIDE ADAPTER BOOTS AND INSULATED PLENUM BOXES AS REQUIRED. 3. PROVIDE MATTE WHITE FINISH IN LAY-IN AND DRYWALL AREAS.

GAS FIRED FURNACE SCHEDULE

Table with columns: ITEM TAG, MANUFACTURER AND MODEL NUMBER, CFM, ESP, INPUT (BTU/H), OUTPUT (BTU/H), ELECTRICAL DATA, AREA SERVING, VENT SIZES, UNIT WEIGHT (LBS), REMARKS.

REMARKS: 1. PROVIDE 3/4" GAS PIPE CONNECTION WITH REGULATOR, UNION, 6" MIN. DIRT LEG, AND SHUT-OFF VALVE. 2. ELECTRICAL CONTRACTOR SHALL FURNISH AND INSTALL DISCONNECT SWITCH.

DUCT FREE SPLIT SYSTEM HIGH WALL INDOOR UNIT

Table with columns: ITEM TAG, MANUFACTURER AND MODEL NUMBER, NOMINAL TONS, CFM, REFRIG. TYPE, ELECTRICAL DATA, PARTNER CONDENSING UNIT TAG, AREA SERVING, UNIT WEIGHT (LBS), REMARKS.

REMARKS: 1. VERIFY EXACT VOLTAGE IN FIELD PRIOR TO ORDERING. 2. PROVIDE BAGNET TEMPERATURE SENSOR AND INTEGRATE TO BAS.

THE EQUIPMENT MANUFACTURERS LISTED IN THESE SCHEDULES ARE INTENDED TO SET STANDARD; THE INTENTION IS "OR EQUAL" PENDING APPROVAL.

OUTDOOR CONDENSING UNIT SCHEDULE

Table with columns: ITEM TAG, MANUFACTURER AND MODEL NUMBER, SEER, NOMINAL TONS, REFRIG., REFRIG. CHARGE (LBS), COOLING CAPACITY (BTU/H), UNIT SERVING, ELECTRICAL DATA, PARTNER CONDENSING UNIT TAG, AREA SERVING, UNIT WEIGHT (LBS), REMARKS.

REMARKS: 1. VERIFY ELECTRICAL REQUIREMENT WITH ELECTRICAL CONTRACTOR PRIOR TO ORDERING. 2. PROVIDE TIMED LOCK-OUT, SERVICE VALVES, AND DRYER.

DUCT FREE SPLIT SYSTEM OUTDOOR CONDENSING UNIT

Table with columns: ITEM TAG, MANUFACTURER AND MODEL NUMBER, NOMINAL TONS, BTU/H, REFRIG. TYPE, ELECTRICAL DATA, PARTNER CONDENSING UNIT TAG, AREA SERVING, UNIT WEIGHT (LBS), REMARKS.

REMARKS: 1. VERIFY EXACT VOLTAGE IN FIELD PRIOR TO ORDERING. 2. INTERLOCK WITH ASSOCIATED SPLIT SYSTEM INDOOR UNIT.

EXHAUST FAN SCHEDULE

Table with columns: ITEM TAG, MANUFACTURER AND MODEL NUMBER, CFM, ESP, ELECTRICAL DATA, CONTROLLED VIA, DAMPER TYPE, AREA SERVING, UNIT WEIGHT (LBS), REMARKS.

REMARKS: 1. VERIFY EXACT VOLTAGE PRIOR TO ORDERING EQUIPMENT. 2. ELECTRICAL CONTRACTOR SHALL PROVIDE DISCONNECT SWITCH AND LINE WIRING.

DEHUMIDIFIER SCHEDULE

Table with columns: ITEM TAG, MANUFACTURER AND MODEL NUMBER, CAPACITY, AMPS, VOLTAGE, CONTROLLED VIA, DAMPER TYPE, AREA SERVING, UNIT WEIGHT (LBS), REMARKS.

THE OWNER HAS PROVIDED MAINTENANCE SERVICE AND VERIFIED OPERATIONS OF THE FOLLOWING EXISTING EQUIPMENT: MAKE UP AIR UNIT - XMJA-1 SERVING THE APPARATUS BAY. THE TOX-ALERT CONTROL SYSTEM SERVING FLEET STORAGE 022.

UNIT HEATER (HOT WATER) SCHEDULE

Table with columns: TAG, MANUFACTURER AND MODEL NUMBER, TYPE, MBH, E.A.T. (F), E.W.T. (F), GPM, WATER P.D., AIR TEMP. RISE, FAN CFM, ELECTRICAL DATA, AREA SERVING, UNIT WEIGHT (LBS), REMARKS.

REMARKS: 1. VERIFY EXACT VOLTAGE PRIOR TO ORDERING EQUIPMENT. 2. FACTORY MOUNTED DISCONNECT SWITCH.



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DANE COUNTY EMERGENCY MANAGEMENT REMODEL 5415 KING JAMES WAY FITCHBURG, WISCONSIN

NOT FOR CONSTRUCTION

CLIENT APPROVAL: APPROVED, APPROVED AS NOTED, APPROVED BY DATE:

ISSUE RECORD: DD SET 08/04/20, CD CHECK SET 11/20/20, 98% CD REVIEW 02/11/21, HVAC REDESIGN 04/30/21, ISSUE FOR BID 06/08/21

CHECKED BY: MOV, DRAWN BY: JAT,KJS,MOV, DATE: 6/7/2021 8:30:39 AM, PROJECT NUMBER: 2020-001



MECHANICAL SCHEDULES, DETAILS AND NOTES M2.0

ROOM TAG	ROOM NAME OCCUPANCY CLASSIFICATION	ROOM AREA (SQFT)	NUMBER OF OCCUPANTS OR FIXTURES	TABLE REQUIREMENTS		ZONE AIR DIST. EFFECT.	REQUIRED SPACE VENTILATION		ACTUAL SPACE VENTILATION			SERVED BY		REMARKS
				(CFM / OCC.)	(CFM / SQFT)		O.A. (CFM)	EXHAUST (CFM)	SUPPLY (CFM)	O.A. (CFM)	EXHAUST (CFM)	SUPPLY	EXHAUST	
001	VESTIBULE	72	0	0	0.00	0.8	0	0	0	0	0			
002	LOBBY / DISPLAY	351	4	5	0.06	0.8	51	0	480	96	0	RTU-2	-	
004	LUNCH ROOM	198	2	5	0.06	0.8	27	0	360	72	0	RTU-2	-	
006	E.O.C.	1,074	36	5	0.06	1.0	244	0	2,500	500	0	RTU-3	-	
007	BREAK OUT	275	14	5	0.06	1.0	87	0	600	120	0	RTU-3	-	
009	RADIO	131	3	5	0.06	1.0	23	0	250	50	0	RTU-3	-	
013	LOUNGE & CORR.	298	4	5	0.06	1.0	38	0	440	88	0	RTU-3	-	
014	BREAK OUT	202	6	5	0.06	1.0	42	0	300	60	0	RTU-3	-	
015	STORAGE	88	0	0	0.00	1.0	0	0	150	30	0	RTU-3	-	
016	STORAGE	114	0	0	0.00	1.0	0	0	0	0	0			
017	SHOWER / TOILET	97	1	0	0.00	1.0	0	70	0	0	100		EF-7	
018	TOILET	72	1	0	0.00	1.0	0	50	80	16	80	RTU-3	EF-7	
019	TOILET	53	1	0	0.00	1.0	0	50	80	16	80	RTU-3	EF-7	
020	TOOL STORAGE	120	0	0	0.00	1.0	0	0	0	0	0			
021	UTILITY	82	0	0	0.00	1.0	0	0	0	0	0			
022	FLEET STORAGE	4,097	0	0	0.75	1.0	3,073	3,073	16,000	16,000	16,000	XMUA-1	EF-9	
023	CONFERENCE	231	8	5	0.06	0.8	67	0	400	80	0	RTU-2	-	
024	RECEPTION	100	1	5	0.06	0.8	14	0	200	40	0	RTU-2	-	
025	WORK AREA	160	2	5	0.06	0.8	25	0	200	40	0	RTU-2	-	
026	CONFERENCE	269	10	5	0.06	0.8	83	0	420	84	0	RTU-1	-	
027	OFFICE	125	1	5	0.06	0.8	16	0	140	28	0	RTU-1	-	
029	OFFICE	107	1	5	0.06	0.8	14	0	170	34	0	RTU-1	-	
030	OFFICE	112	1	5	0.06	0.8	15	0	170	34	0	RTU-1	-	
031	OFFICE	110	1	5	0.06	0.8	15	0	140	28	0	RTU-1	-	
032	VESTIBULE	125	0	0	0.00	0.8	0	0	160	32	0	RTU-1	-	
033	OFFICE	118	1	5	0.06	0.8	15	0	140	28	0	RTU-1	-	
034	DEP. OFFICE	201	2	5	0.06	0.8	28	0	340	68	0	RTU-1	-	
035	DIR. OFFICE	253	2	5	0.06	0.8	31	0	400	80	0	RTU-1	-	
036	WORK SPACE	481	6	5	0.06	0.8	74	0	540	108	0	RTU-2	-	
037	MECHANICAL	135	0	0	0.00	0.8	0	0	0	0	0			
038	OFFICE	126	1	5	0.06	0.8	16	0	160	32	0	RTU-1	-	
039	OFFICE	148	1	5	0.06	0.8	17	0	160	32	0	RTU-1	-	
040	OFFICE	109	1	5	0.06	0.8	14	0	120	24	0	RTU-1	-	
041	TOILET	68	1	0	0	0.8	0	70	50	10	80	RTU-1	TE-1	
043	TOILET	68	1	0	0	0.8	0	70	50	10	80	RTU-1	TE-1	
044	BASEMENT	3050	0	0	0.00	0.8	0	0	1,580	0	0	F-1		
045	NETWORK	240	0	0	0.00	0.8	0	0	730	0	0	AC-1		

MECHANICAL LEGEND

- NEW DUCTWORK AND AIR DEVICES TO MATCH EXISTING.
- EXISTING DUCTWORK AND AIR DEVICES TO REMAIN. CLEAN AND RECONDITION AS REQUIRED.
- EXISTING DUCTWORK AND AIR DEVICES TO BE REMOVED.
- THERMOSTAT
- SENSOR (REMOTE TEMPERATURE SENSOR UNLESS OTHERWISE NOTED)
- TAKEOFF WITH MANUAL VOLUME DAMPER
- LOCKABLE MANUAL VOLUME DAMPER (MVD)
- FIRE DAMPER
- ABOVE FINISHED FLOOR
- BELOW FINISHED CEILING
- COMPRESSED AIR
- LOCKABLE MANUAL VOLUME DAMPER
- INCHES OF WATER COLUMN
- UNDER CUT DOOR, 3/4"
- UP THROUGH ROOF
- WIRE MESH SCREEN
- NEW TO EXISTING CONNECTION
- DEMO BREAK POINT. DEMO BACK TO THIS POINT
- EQUIPMENT TAG
- NEW AIR DEVICE TAG

- ### MECHANICAL GENERAL NOTES
- ALL ROOFTOP EQUIPMENT LOCATIONS SHALL BE COORDINATED WITH ROOF DRAINS. REFER TO ARCHITECTURAL AND STRUCTURAL PLANS FOR EXACT LOCATIONS OF EQUIPMENT.
 - THE INSTALLING CONTRACTOR SHALL PROVIDE ROOF CURBS AND LEVELING CURBS TO MATCH THE ROOF PITCH IF REQUIRED. THE ROOFING CONTRACTOR SHALL FLASH ALL CURBS INTO ROOF.
 - ALL STRUCTURAL DUCT OPENINGS SHALL BE APPROVED BY THE STRUCTURAL ENGINEER PRIOR TO CUTTING. INDICATE ON 1/4" SCALE SHOP DRAWINGS EXACT LOCATION OF OPENINGS COORDINATED WITH STRUCTURAL TRADES. PROVIDE DUCT ROOF CURBS AT ALL DUCT PENETRATIONS THRU ROOF.
 - ALL VENTS AND EXHAUSTS SHALL BE LOCATED A MINIMUM OF 10'-0" FROM ANY FRESH AIR INTAKES PER LOCAL CODES. PLUMBING VENTS SHALL BE A MINIMUM OF 10'-0" FROM ANY FRESH AIR INTAKE. EXTEND TERMINATION HEIGHT TO PROVIDE A 10'-0" CROSS SECTION CLEARANCE FROM PLUMBING VENTS WHERE NEEDED.
 - ALL ROOFTOP EQUIPMENT SHALL BE SET ON EQUIPMENT CURBS OR RAILS. ALL PIPE AND DUCT PENETRATIONS THROUGH THE ROOF SHALL HAVE A WEATHERPROOF CURB OR FLASHING. ALL ROOF FLASHING SHALL BE PERFORMED BY THE ROOFING CONTRACTOR.
 - ALL GAS FIRED APPLIANCES MUST CONFORM TO INTERNATIONAL FUEL GAS CODE. ALL GAS PIPING MUST BE SIZED IN ACCORDANCE WITH INTERNATIONAL FUEL GAS CODE. FUEL GAS PIPING INSTALLATION MUST CONFORM WITH INTERNATIONAL FUEL GAS CODE.
 - MECHANICAL CONTRACTOR SHALL FURNISH AND INSTALL FIRE DAMPERS IN DUCTWORK AND FIRESTOP ALL PIPE PENETRATIONS THRU RATED FLOORS, CEILING AND WALLS. VERIFY LOCATIONS OF ALL RATED ASSEMBLIES WITH ARCHITECTURAL PLANS. FIRE DAMPERS SHALL BE IN ACCORDANCE WITH UL 555. MECHANICAL PLANS MAY NOT SHOW LOCATIONS OF ALL REQUIRED FIRE DAMPERS.
 - SEAL ALL PENETRATIONS THRU EXTERIOR WALLS WATER AND WEATHER TIGHT. ALL ROOF FLASHING SHALL BE BY THE ROOFING CONTRACTOR.
 - UNLESS SHOWN OTHERWISE ON PLANS, ALL BRANCH TAKE-OFFS TO DIFFUSERS SHALL BE SAME SIZE AS DIFFUSER NECK CONNECTION.
 - PROVIDE MANUAL VOLUME DAMPERS AT ALL BRANCH TAKE-OFFS TO AIR DEVICES.
 - UNLESS SHOWN OTHERWISE ON PLANS, PROVIDE SPIRAL DUCTWORK IN ALL EXPOSED CEILING AREAS.
 - FOR 2 PSIG GAS SUPPLY PRESSURE FROM THE METER PROVIDE GAS PRESSURE REGULATORS AT ALL FUEL BURNING APPLIANCES. SIZE REGULATORS FOR THE MFR. REQUIRED FLOW AND INLET AND OUTLET PRESSURES. PROVIDE VENT PIPING FROM REGULATOR RELIEF PORT TO OUTDOORS PER CODE REQUIREMENTS.
 - ALL NEW GAS PIPING INSTALLED OUTSIDE SHALL BE PAINTED WITH YELLOW EPOXY PAINT FOR CORROSION PROTECTION. FOR PIPING ROUTED ACROSS GRADE OR ROOF, PROVIDE GAS PIPING SUPPORTS EQUAL TO "DURA-BLOK" BY COOPER INDUSTRIES. MAX. SUPPORT SPACING SHALL FOLLOW THE REQUIREMENTS OF THE INTERNATIONAL FUEL GAS CODE.
 - CONTRACTOR SHALL BE RESPONSIBLE FOR VISITING THE SITE AND VERIFYING ALL EXISTING FIELD CONDITIONS PRIOR TO SUBMISSION OF HIS BID. THE CONTRACT DOCUMENTS INDICATE APPROXIMATE LOCATIONS AND SIZES OF EXISTING AND NEW DUCTWORK AND PIPING AND ARE DIAGNOSTIC IN NATURE. THE CONTRACTOR SHALL BE RESPONSIBLE FOR DETERMINING THE ACTUAL LOCATION, SIZE AND ROUTING OF ALL EXISTING AND NEW DUCTS AND PIPING.
 - CONTRACTOR IS RESPONSIBLE FOR COORDINATING HIS WORK WITH THE WORK OF ALL OTHER TRADES AND MAKING ANY NECESSARY MODIFICATIONS TO HIS WORK AT NO ADDITIONAL COST, INCLUDING ALL OFFSETS.
 - CONTRACTOR SHALL BE RESPONSIBLE FOR RELOCATION OF ANY EXISTING MINOR INTERFERENCES, INCLUDING STRUCTURAL COMPONENTS (AS REVIEWED AND APPROVED BY THE STRUCTURAL ENGINEER), CONDUIT, HANGERS, SPRINKLER PIPING AND SPRINKLER HEADS AT NO ADDITIONAL COST.
 - CONTRACTOR SHALL INCLUDE ALL MISCELLANEOUS ITEMS REQUIRED TO COMPLETE THE WORK, INCLUDING MOVING AND RIGGING OF MATERIAL AND EQUIPMENT, ALL HANGER, SUPPORTS, ANCHORS, EXPANSION MEANS, FITTINGS AND SLEEVES.
 - HVAC CONTRACTOR SHALL PERFORM ALL CUTTING AND PATCHING OF BUILDING MATERIALS AS REQUIRED FOR INSTALLATION OF HIS WORK AND PROVIDE ALL HOLES AND SLEEVES FOR INSTALLATION OF MECHANICAL WORK.
 - PROVIDE ACCESS PANELS FOR CONCEALED EQUIPMENT, VOLUME DAMPERS, SENSORS, ETC FOR MAINTENANCE AND BALANCING. ACCESS PANELS SHALL COMPLY WITH UL AND LOCAL CODES.
 - NEW GAS PIPING SHALL BE STEEL PIPE: ASTM A 53/A 53M, BLACK STEEL, SCHEDULE 40, TYPE E OR S, GRADE B, MALLEABLE-IRON THREADED FITTINGS: ASME B16.3, CLASS 150, STANDARD PATTERN.
 - NEW BELOW GROUND GAS PIPING SHALL BE ASTM D 2513, SDR-11 YELLOW POLYETHYLENE. PROVIDE WITH METALLIC TRACER WIRE, TRANSITION ADAPTERS, ANODELESS SERVICE RISERS. BURY PIPING AT LEAST 18" DEEP.
 - ALL SUPPLY AND RETURN DUCTWORK IS TO BE RIGID GALVANIZED STEEL UNLESS NOTED OTHERWISE. FINAL 5'-0" OF CONNECTION TO DIFFUSER MAY BE FLEXIBLE DUCTWORK WITH INTEGRAL INSULATION IF DUCTWORK IS CONCEALED ABOVE CEILING.
 - ALL DUCTWORK AND PIPING IS TO BE EXTERNALLY INSULATED WHEN CONCEALED FROM VIEW BY OCCUPANTS. ALL EXPOSED DUCTWORK SHALL BE UNINSULATED. INSULATION R VALUE SHALL MEET OR EXCEED ENERGY CODE MINIMUM REQUIREMENTS.
 - FOR EXISTING DUCTWORK TO REMAIN, COVER OPENINGS IN DUCTWORK WITH PLASTIC FILM DURING CONSTRUCTION TO PREVENT DUST INFILTRATION. REPAINT DUCTWORK TO MATCH STRUCTURE AS REQUIRED.
 - FOR EXISTING TO REMAIN EQUIPMENT, INSPECT AND PROVIDE ESTIMATED LABOR AND MATERIAL PRICING FOR REFURBISHING EQUIPMENT TO FULL OPERATIONAL CAPACITY. PROVIDE ALTERNATE PRICING FOR REPLACEMENT OF EQUIPMENT WITH EQUIVALENT.
 - CONTRACTOR SHALL PROVIDE ALL FIRE SAFING, SEALANT, FLASHING, FRAMES, ESCUTCHEONS AND TRIM FOR ALL EXISTING OPENINGS TO BE RE-USED OR REMAINING AND FOR ALL NEW OPENINGS.
 - CONTRACTOR SHALL CHANGE ALL EQUIPMENT AIR FILTERS DURING CONSTRUCTION AND AGAIN AT PROJECT COMPLETION.
 - TEMPERATURE CONTROLS CONTRACTOR SHALL PROVIDE "BELIMO" VALVE ACTUATORS AND ASSOCIATED WIRING. M.C. SHALL INSTALL ACTUATORS.
 - TEMPERATURE CONTROLS CONTRACTOR SHALL PROVIDE "DISTECH" VAV DAMPER CONTROLLERS AND ASSOCIATED WIRING.
 - FOR TEMPERATURE CONTROLS PRICING CONTACT JOSH PETERSON AT J.F. AHERN, PHONE: 420-574-3144.

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DANE COUNTY EMERGENCY MANAGEMENT REMODEL
 5415 KING JAMES WAY
 FITCHBURG, WISCONSIN

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 APPROVED BY / DATE:

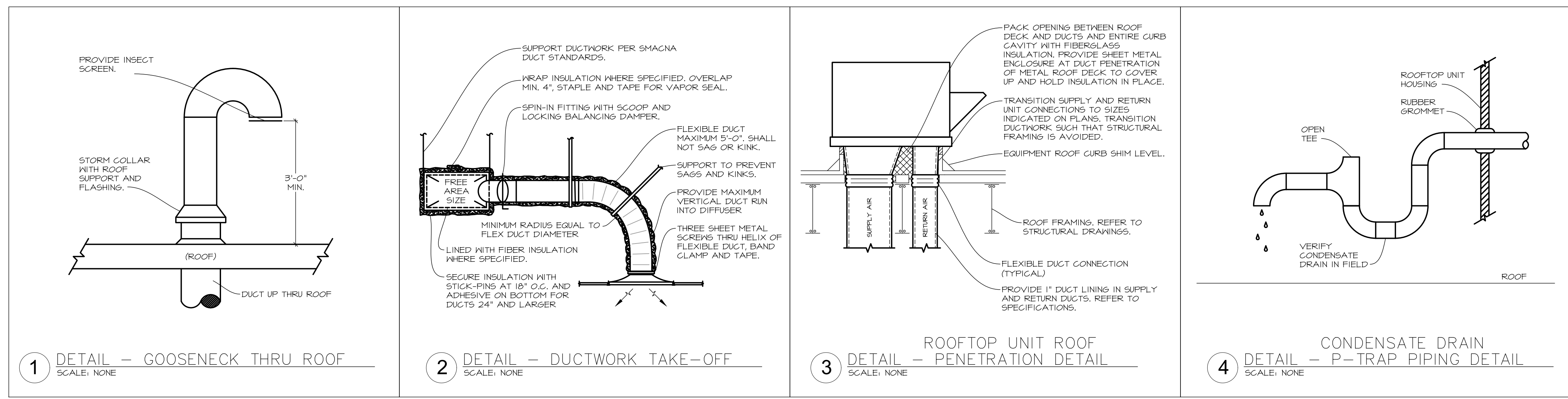
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HVAC REDESIGN	04/30/21
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MECHANICAL SCHEDULES, DETAILS AND NOTES

M2.1



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NOT FOR CONSTRUCTION

HOT-WATER VAV TERMINAL BOX SCHEDULE

TAG	MFR. MODEL NUMBER	MAXIMUM COOLING CFM	MINIMUM COOLING CFM	HEATING CFM	INLET SIZE	HEAT. COIL TEMP. RISE (DEG. F)	COIL ROWS	GPM	COIL PD FT. H2O	HTG. MBH	SERVING	REMARKS
VAV-1-1	PRICE #5DVS	320	110	240	6"	40	2	0.9	.08	10.4	RTU-1	ALL
VAV-1-2	PRICE #5DVS	280	90	210	6"	40	2	0.7	.05	9.1	RTU-1	ALL
VAV-1-3	PRICE #5DVS	420	130	300	6"	40	2	1.2	.18	13.0	RTU-1	ALL
VAV-1-4	PRICE #5DVS	400	130	300	6"	40	2	1.2	.18	13.0	RTU-1	ALL
VAV-1-5	PRICE #5DVS	540	180	410	8"	40	2	1.7	.4	17.9	RTU-1	ALL
VAV-1-6	PRICE #5DVS	220	70	170	5"	40	2	0.5	.03	7.5	RTU-1	ALL
VAV-1-7	PRICE #5DVS	340	120	270	6"	40	2	1.0	.12	11.7	RTU-1	ALL
VAV-1-8	PRICE #5DVS	340	120	270	6"	40	2	1.0	.12	11.7	RTU-1	ALL
VAV-1-4	PRICE #5DVS	440	140	330	6"	40	2	1.3	.20	14.0	RTU-1	ALL
VAV-2-1	PRICE #5DVS	360	120	270	6"	40	2	1.0	.12	11.7	RTU-2	ALL
VAV-2-2	PRICE #5DVS	540	180	410	8"	40	2	1.6	.4	17.7	RTU-2	ALL
VAV-2-3	PRICE #5DVS	400	130	300	6"	40	2	1.2	.18	13.0	RTU-2	ALL
VAV-2-4	PRICE #5DVS	400	130	300	6"	40	2	1.2	.18	13.0	RTU-2	ALL
VAV-3-1	PRICE #5DVS	700	210	480	10"	40	2	2.5	.82	20.7	RTU-3	ALL

- REMARKS:
- SELECTIONS BASED ON 150 DEG. F ENT AND 120 DEG. F LWT
 - PROVIDE FLANGED OUTLET CONNECTIONS
 - PROVIDE DDG CONTROLLER, N.C. CONTROL VALVE, CIRCUIT SETTER, SERVICE VALVES AND BOTTOM HW INLET ON COIL.
 - REFER TO PLANS FOR LEFT OR RIGHT SIDE ACCESS, MAINTAIN REQUIRED SERVICE CLEARANCES.
 - CONTROLLED THRU BAS, REFER TO SEQUENCE OF OPERATION.
 - ELECTRICAL CONTRACTOR SHALL PROVIDE ONE 120V, 15A JUNCTION BOX FOR EACH VAV ROOFTOP UNIT FOR USE BY TEMPERATURE CONTROL CONTRACTOR.
 - TEMPERATURE CONTROL CONTRACTOR SHALL PROVIDE VAV BOX TRANSFORMERS AND CONTROL WIRING. SEE TEMPERATURE CONTROL SPECIFICATION FOR SEQUENCE OF OPERATION.
 - PROVIDE WITH 3-WAY CONTROL VALVE
 - BRANCH DUCT TO VAV BOXES SHALL BE SAME SIZE AS BOX CONNECTION, UNLESS SHOWN OTHERWISE ON PLANS.
 - MOUNT VAV BOX AS HIGH AS POSSIBLE BETWEEN ROOF JOIST, MAINTAIN REQUIRED SERVICE CLEARANCES.

BOILER SCHEDULE

ITEM TAG	MANUFACTURER AND MODEL NUMBER	MBH INPUT	MBH OUTPUT	EWT	LWT	VENT SIZE	INTAKE SIZE	VOLTAGE	MOCF (AMPS)	UNIT WEIGHT (LBS)	REMARKS
B-1	"NTI" TRINITY TFT 340	340	324	120°F	150°F	4"Ø	4"Ø	120-1-60	15	250	ALL

- REMARKS:
- PROVIDE WALL MOUNTING KIT.
 - ASME "H" STAMPED BOILER, STAINLESS STEEL HEAT EXCHANGER.
 - DIRECT SPARK IGNITION.
 - PROVIDE 30 PSI ASME PRESSURE RELIEF VALVE, PRESSURE / TEMPERATURE GAUGES.
 - PROVIDE INTEGRAL MICROPROCESSOR SAFETY CONTROL, OUTDOOR RESET, WARM WEATHER SHUT-DOWN.
 - PROVIDE INTEGRATED MODBUS FOR CONNECTION TO BAS.
 - PROVIDE NATURAL GAS VALVE TRAIN, FULL MODULATION WITH Ø TO 1 TURNDOWN.
 - INSTALL PER MANUFACTURER'S RECOMMENDATIONS.
 - BOILER SHALL BE ENABLED AND MONITORED THRU THE BAS, SEE TEMPERATURE CONTROL SPECIFICATION.
 - PROVIDE TEMPERATURE SENSOR IN SUPPLY AND RETURN HEADERS AND OUTDOOR AIR SENSOR, TIE SENSORS TO BAS.
 - PROVIDE NEUTRALIZATION KIT FOR DRAIN PIPING.

PUMP SCHEDULE

TAG	MANUFACTURER AND MODEL NO.	IMPELLER DIAMETER	SERVING	TOTAL GPM	HEAD PRESS	ELECTRICAL DATA			REMARKS
						HP	RPM	VOLTAGE	
P-1	BELL & GOSSETT PL-55	PL-55	VAV LOOP	22	25'	2/5	3250	120-1-60	1-4
P-2	BELL & GOSSETT PL-45	PL-45	BOILER B-1	20	20'	1/6	3300	120-1-60	1-3, 5

- REMARKS:
- LABEL ALL PUMPS, DISCONNECT SWITCH AND FIELD WIRING BY ELECTRICAL CONTRACTOR.
 - CONTRACTOR SHALL VERIFY FINAL HEAD PRESSURE AND PUMP SELECTION WITH ACTUAL FIELD CONDITIONS.
 - INLINE CONFIGURATION, SEE DETAIL.
 - PUMP SHALL BE CONTROLLED THRU THE BAS.
 - PUMP SHALL BE CONTROLLED THRU THE BOILER CONTROL PANEL.

THE EQUIPMENT MANUFACTURERS LISTED IN THESE SCHEDULES ARE INTENDED TO SET STANDARD; THE INTENTION IS "OR EQUAL" PENDING APPROVAL.



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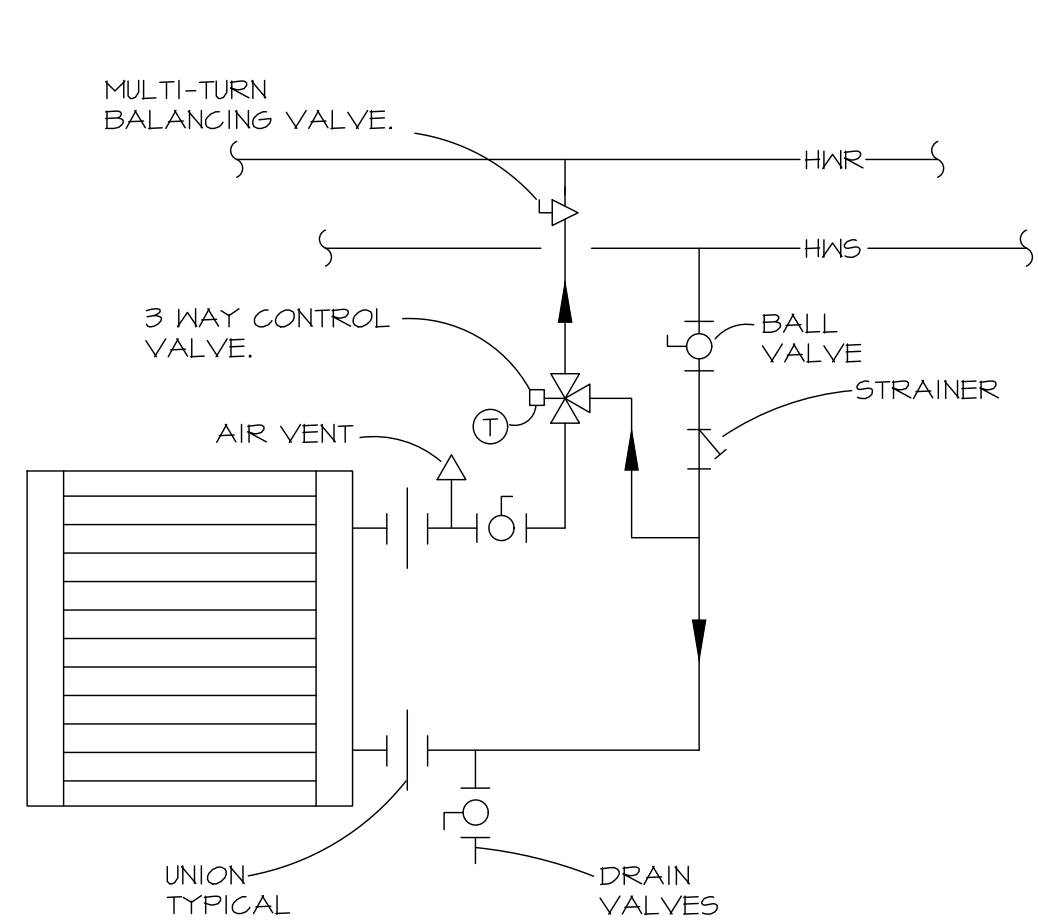
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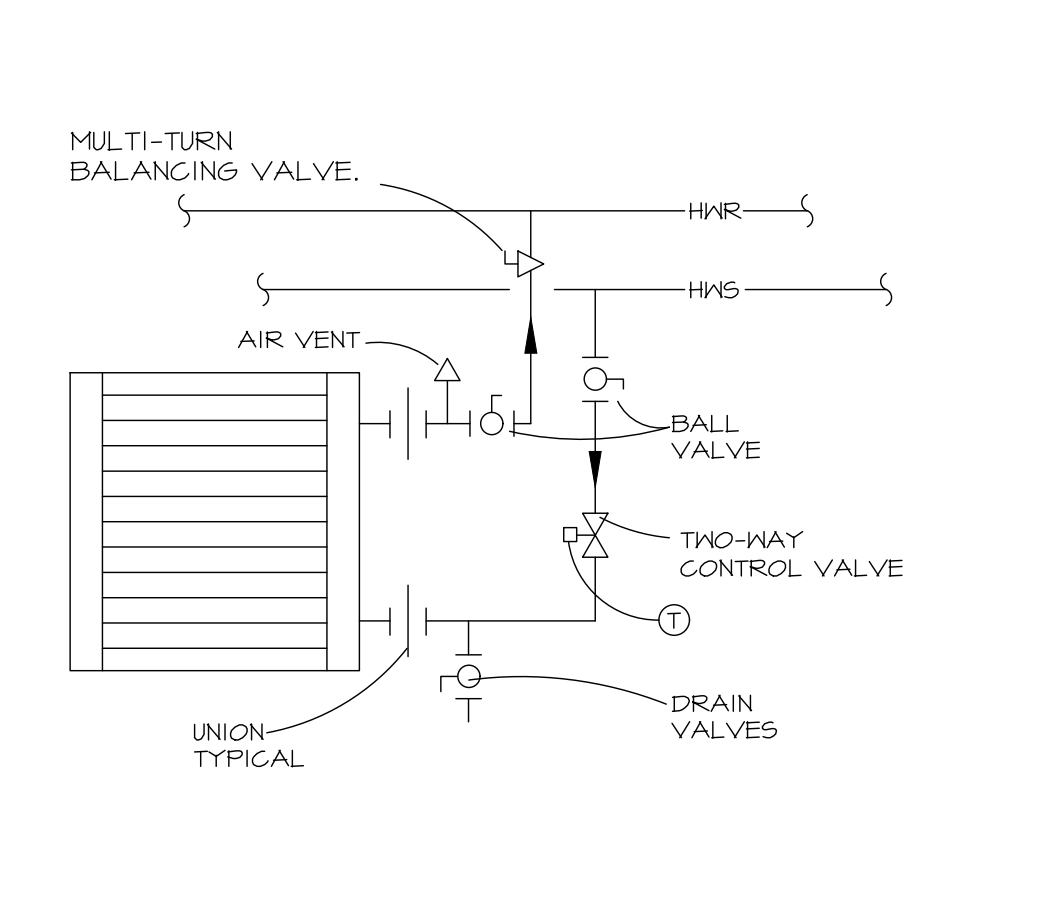
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MECHANICAL SCHEDULES, DETAILS AND NOTES
M2.2

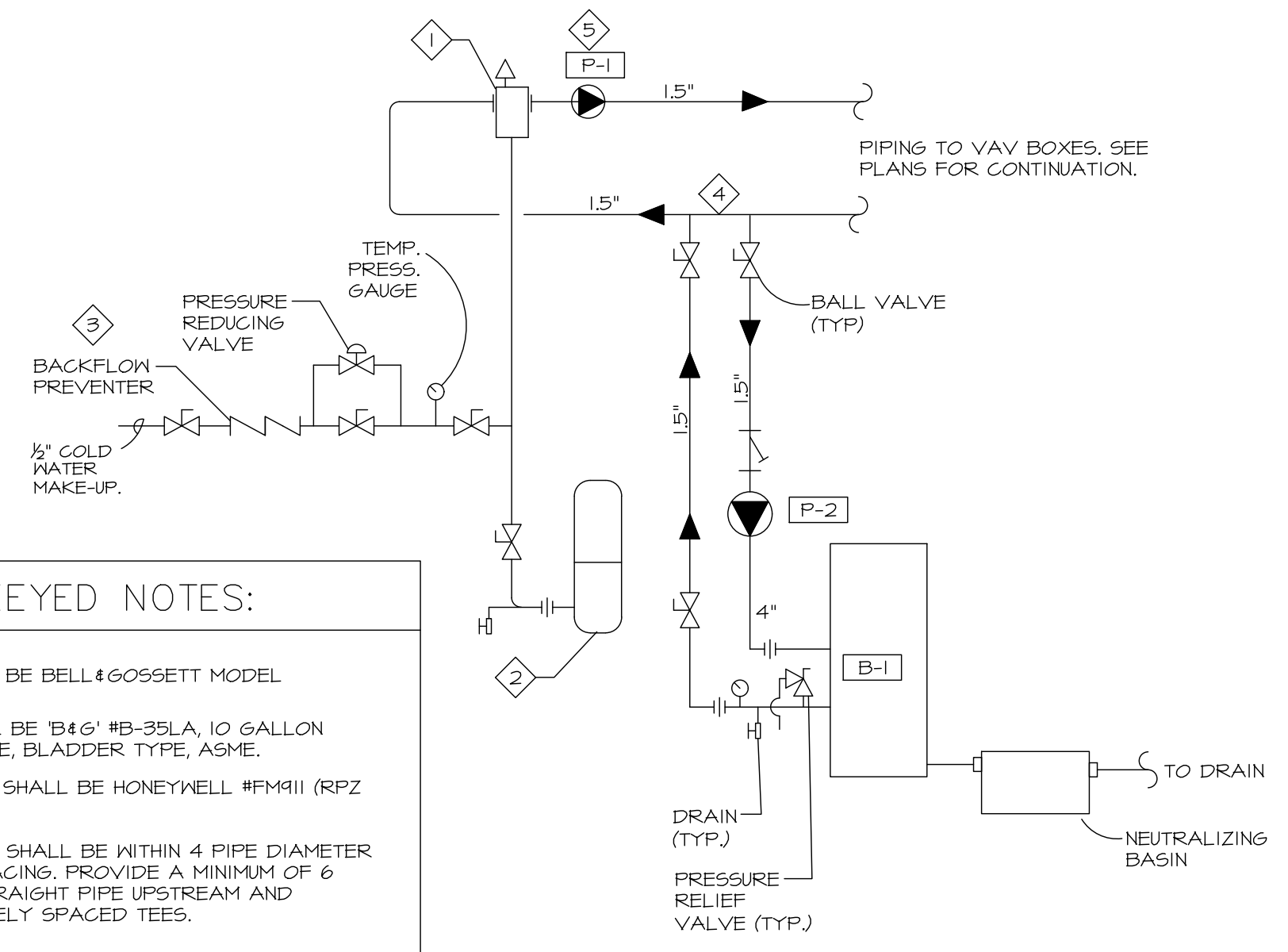
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1 DETAIL - VAV REHEAT COIL
 SCALE: NONE

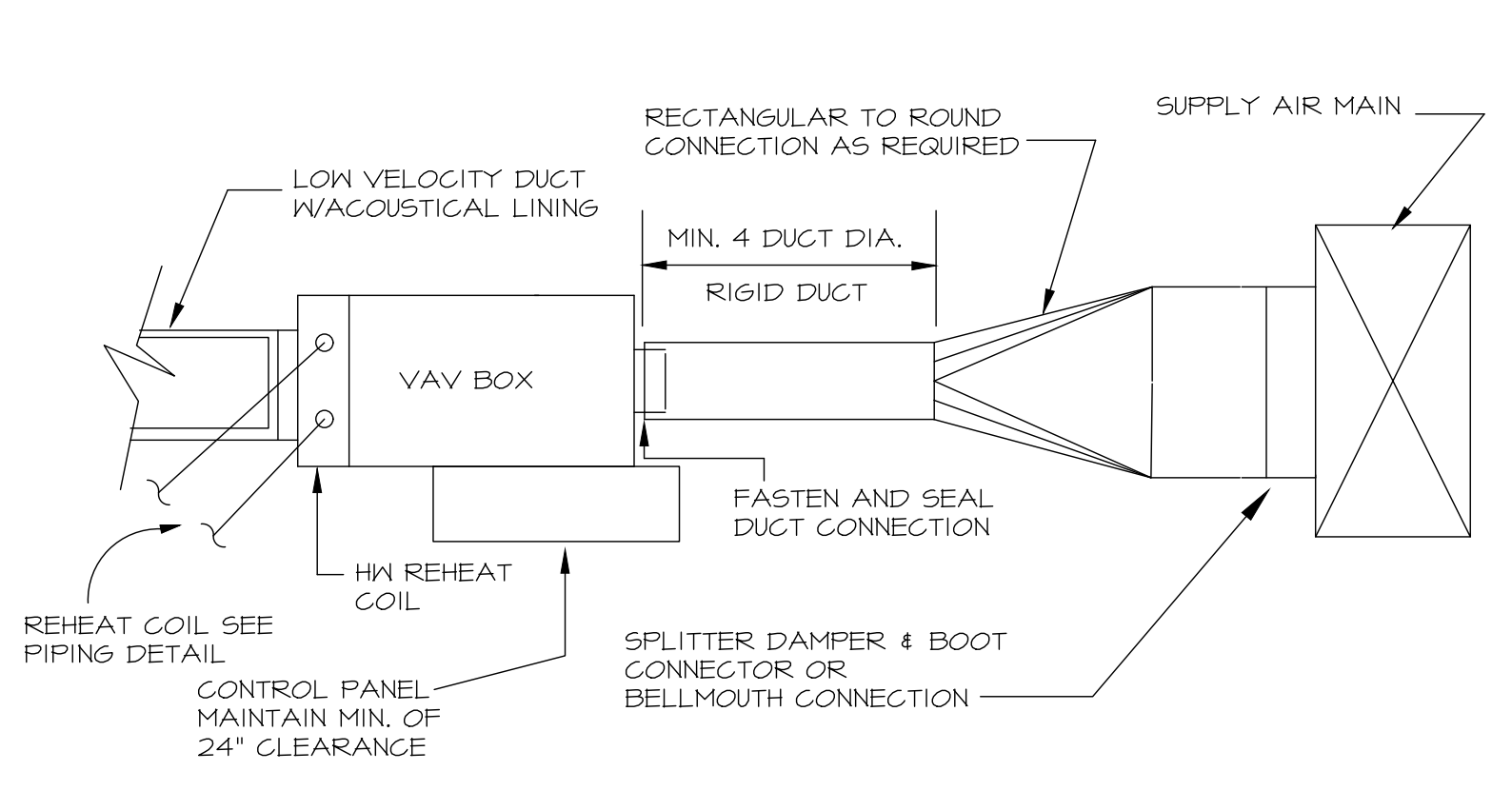


5 DETAIL - CABINET UNIT HEATER
 SCALE: NONE

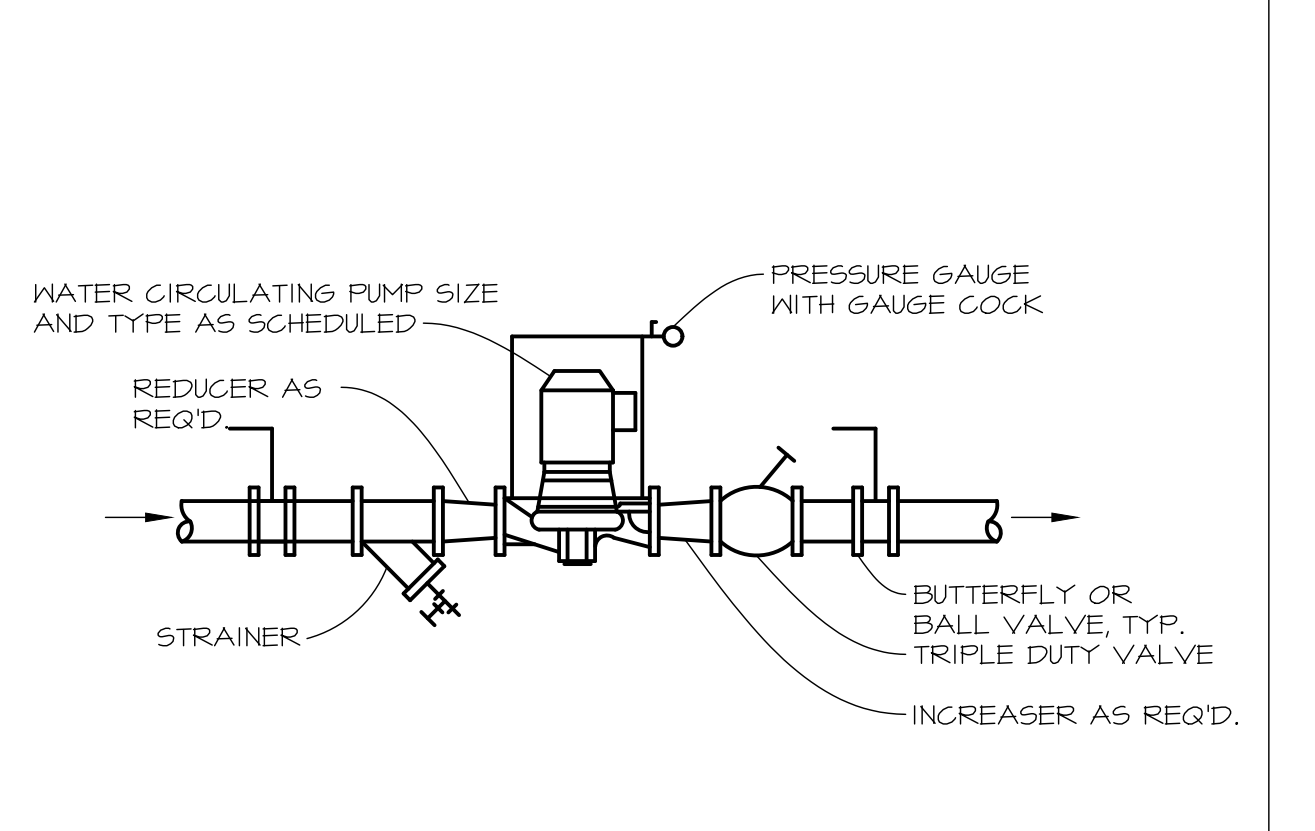


- DIAGRAM KEYED NOTES:**
- AIR SEPARATOR SHALL BE BELL & GOSSETT MODEL EASB-JR-15".
 - EXPANSION TANK SHALL BE "B46" #B-35LA, 10 GALLON TANK, FULL ACCEPTANCE, BLADDER TYPE, ASME.
 - BACKFLOW PREVENTER SHALL BE HONEYWELL #FM11 (RPZ STILL NECESSARY).
 - CLOSELY SPACED TEES SHALL BE WITHIN 4 PIPE DIAMETER CENTER TO CENTER SPACINGS, PROVIDE A MINIMUM OF 6 PIPE DIAMETERS OF STRAIGHT PIPE UPSTREAM AND DOWNSTREAM OF CLOSELY SPACED TEES.
 - DISTRIBUTION PUMP SHALL BE CONTROLLED BY BAS

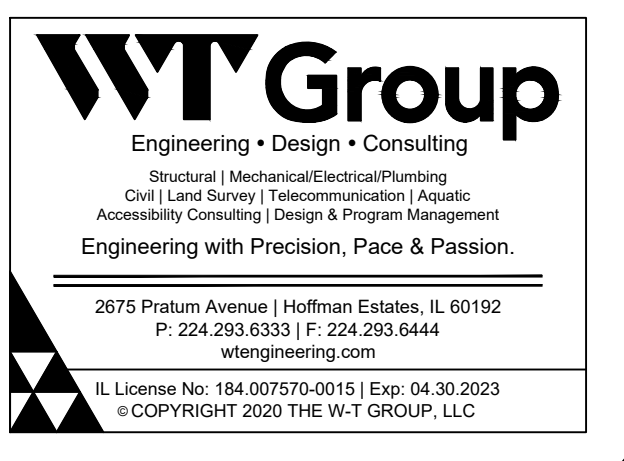
2 BOILER PIPING DIAGRAM - VAV HEATING
 NOT TO SCALE



3 DETAIL - VAV BOX CONNECTION
 SCALE: NONE



4 DIAGRAM - IN LINE PUMP
 SCALE: NONE



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DATA SHEET

Underfloor Air Terminal (Variable Volume)

MODEL: MIT3 - CSH

DESCRIPTION:

MIT3-CSH (Modular Integrated Terminal) is an adjustable variable volume diffuser for use in raised floor air systems.

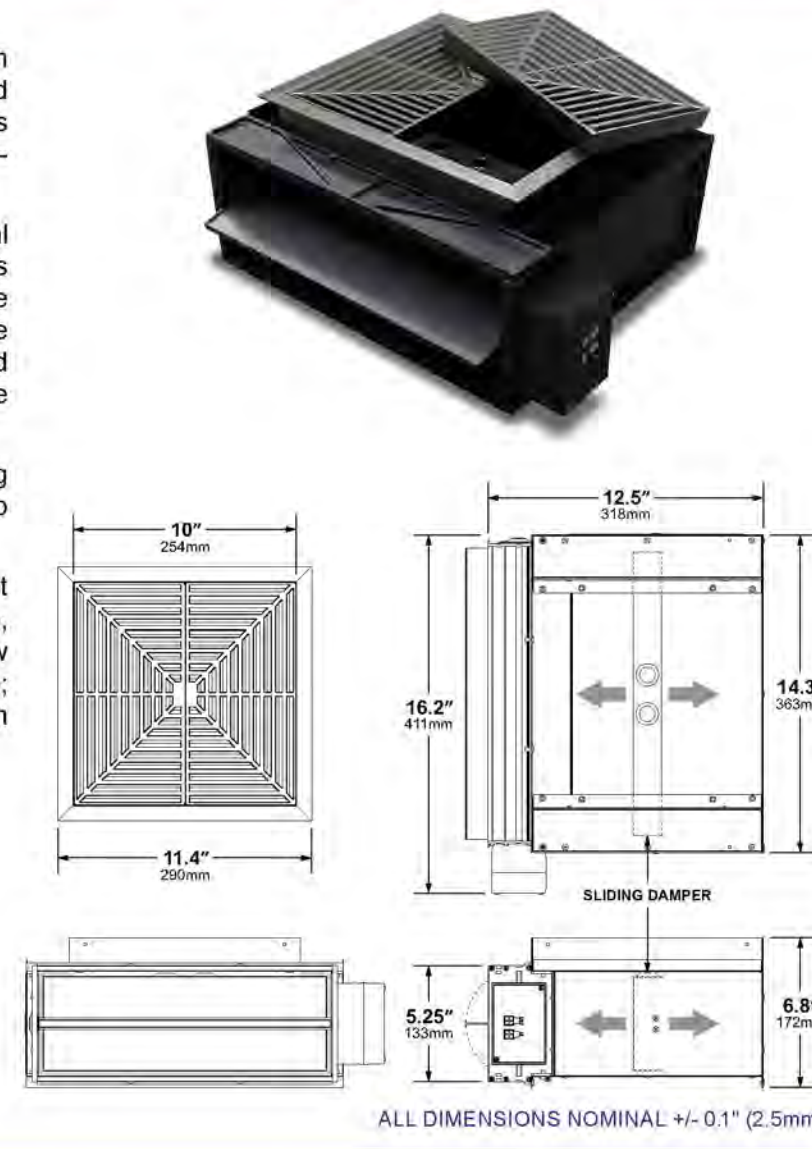
The air valve uses time modulation to vary total air supplied to a conditioned space. Air velocity is constant any time the valve is open; the short time duration between open/close cycles produces the effect of continuous air delivered to the occupied space.

Air flow output can be manually adjusted by removing the grille and moving the Sliding Damper by hand to the desired CFM position.

The nominal 10" x 10" (254mm x 254mm) cast aluminum diffuser grille includes two separate inserts, which can be configured to create alternate air throw patterns.

FEATURES:

- Robust cast aluminum grille frame
DC synchronized magnetic motor
Manual air flow adjustment with Sliding Damper
Riveted pre-painted galvanized steel
Multi-function circuit board for varying control strategies



SPECIFICATIONS:

Application: Underfloor Cooling | Raised Access Floors 8" (203mm) +
Grille Dimensions: Diffuser: 10" x 10" (254mm x 254mm) | Face: 11.4" x 11.4" (290mm x 290mm)
Grille Rating: Cast Aluminum | Conforms to NFPA 90A | 1250 lbs. (567 Kg) Load Strength
Supply Press. / Temp.: 0.02-0.1 in. w.c. (5-25 Pa) | 40-120°F (4-49°C)
Capacity: Maximum: 150 cfm @ 0.05 in. w.c. (255 m³/hr @ 12.5 Pa)
Noise Criterion: ≤ NC-17 (All Flow Conditions)

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DATA SHEET

Underfloor Power Module Junction Box

MODEL: PM - 4

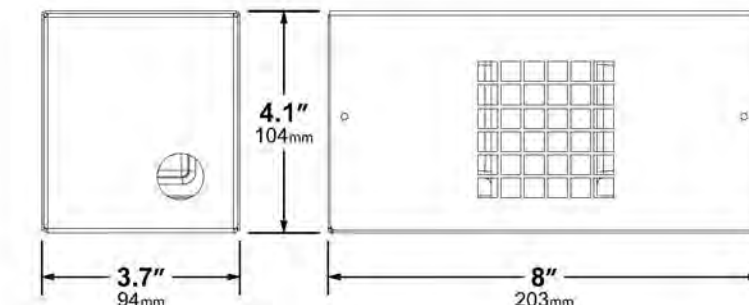
DESCRIPTION:

PM-4 (Power Module) is a 20 gauge (1mm) galvanized steel junction box for use in under floor air systems.

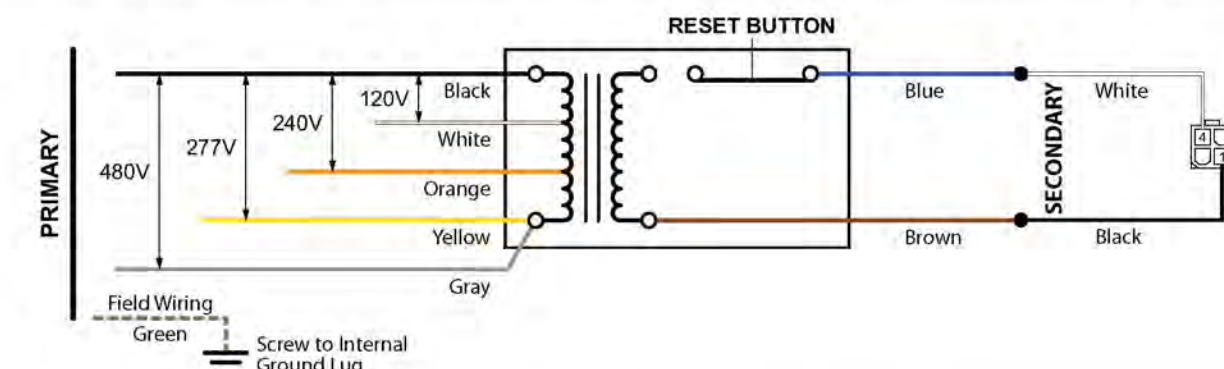
The control transformer installed in the junction box is rated at 96VA 120/277VAC to 24VAC. It is rated for supply air temperature from 45-120°F (7-49°C). A molex connection provides power chaining to under floor devices.

The transformer includes a built-in circuit breaker (4-Amp) to protect the circuit from overloading. This reset button is located on the exterior of the transformer, accessible through an opening in the steel housing.

The PM-4 is ETL Listed, fully certified to UL standards and approved for plenum use in UFAD application.



ALL DIMENSIONS NOMINAL +/- 0.1" (2.5mm)



SPECIFICATIONS:

Application: Underfloor Power Supply | Raised Access Floors 6" (152mm) +
Dimensions: 8" x 3.7" x 4.1" (203mm x 94mm x 104mm)

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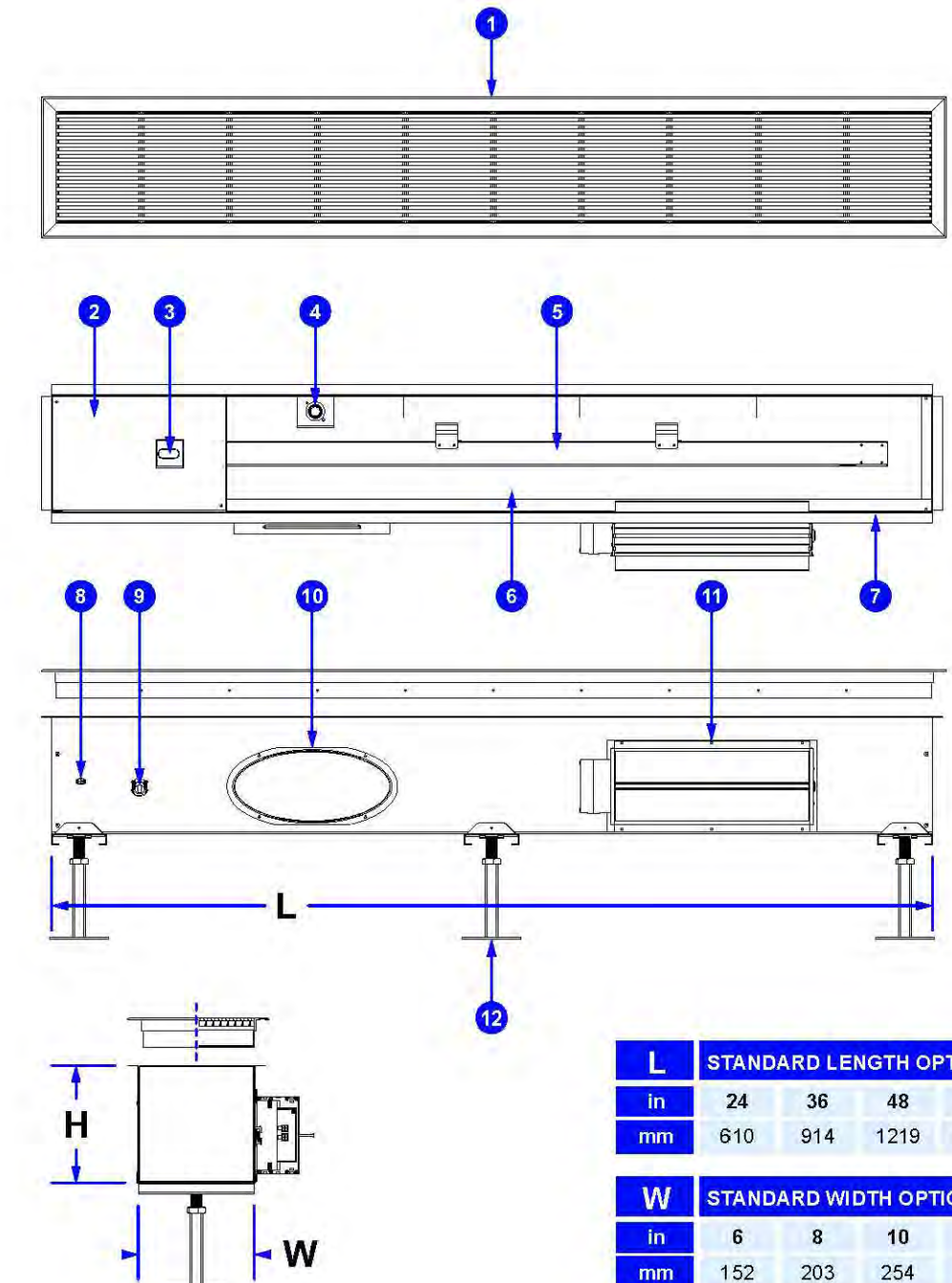


DATA SHEET

Underfloor Air Distribution Linear Terminal

MODEL: CLEMIT

UNIT DETAIL:



- Linear grille (optional extruded aluminum or stainless steel, specify on order)
Controls housing
Disconnect switch
Thermistor / thermal cutout
Sheathed electric heating element
20 gauge (1mm) galvanized steel casing, pre-painted black
3/4" (19mm) support flanges (optional, specify on order)
Plug & play control cable molex connection
Line power connection clamp
Duct connections (optional, specify on order)
VAV air valves (optional, specify on order)
Support pedestals / brackets on nominal 36" (914mm) centers (optional, specify on order)

Table with length and width options for the CLEMIT terminal.

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DATA SHEET

Plug & Play Modular Cables (Molex Connections)

MODEL: PAP

DESCRIPTION:

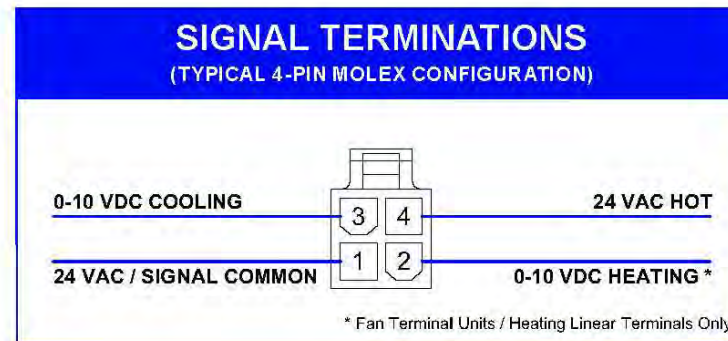
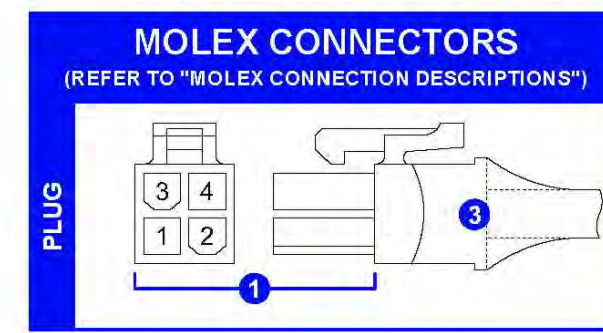
PAP (Plug And Play) cables are to be used with 24 VAC control systems to connect AirFixture devices. Cable is Type E118871 CMP/CL3P/FF/PLP.

MOLEX CONNECTION DESCRIPTIONS:

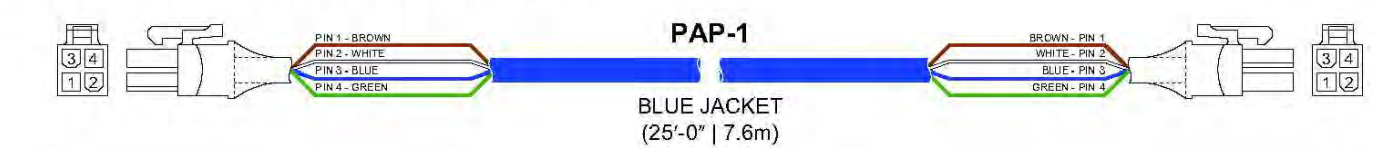
- Molex 39-01-2045 4-Pin Dual Row Plug (female receptacle connections)
Molex 39-01-3049 4-Pin Dual Row Socket (male pin connections)
Heat Shrink Strain Relief (minimum 1" bond to cable jacket)

STANDARD PAP CABLE DESCRIPTIONS:

- PAP-1: Power & Control Cable
PAP-1J: Power & Control Chaining Cable
PAP-C: Coupling Cable
PAP-2: Controller Cable
PAP-3: Power & Control Extension Cable
PAP-5: Power-Only Cable
PAP-6: Heating/Chaining Cable
PAP-7B: TEC Controller Cable



STANDARD CONFIGURATIONS:



ADDITIONAL PAP CONFIGURATIONS ON NEXT PAGE

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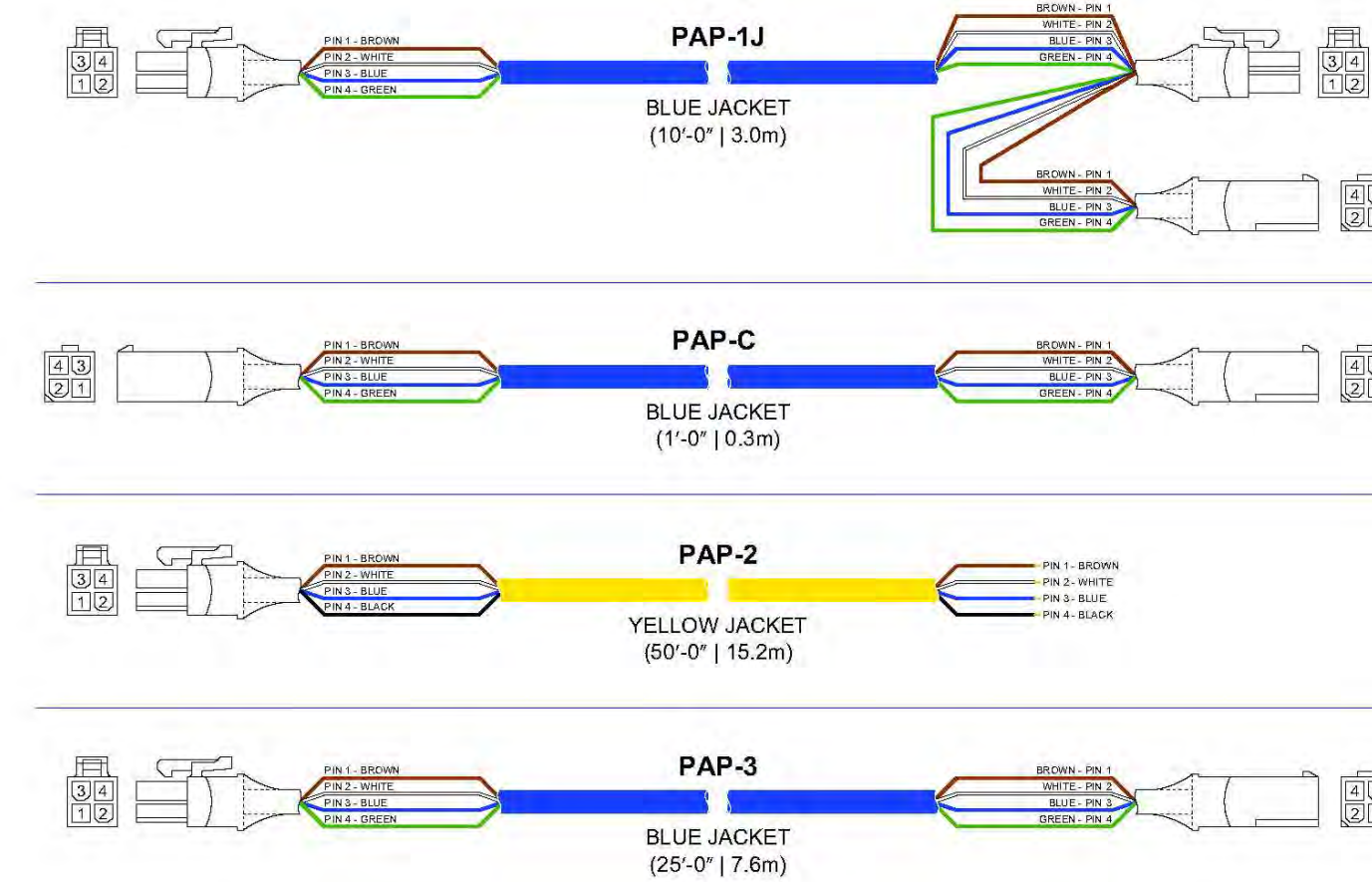


DATA SHEET

Plug & Play Modular Cables (Molex Connections)

MODEL: PAP

STANDARD CONFIGURATIONS (CONTINUED):



ADDITIONAL PAP CONFIGURATIONS ON NEXT PAGE

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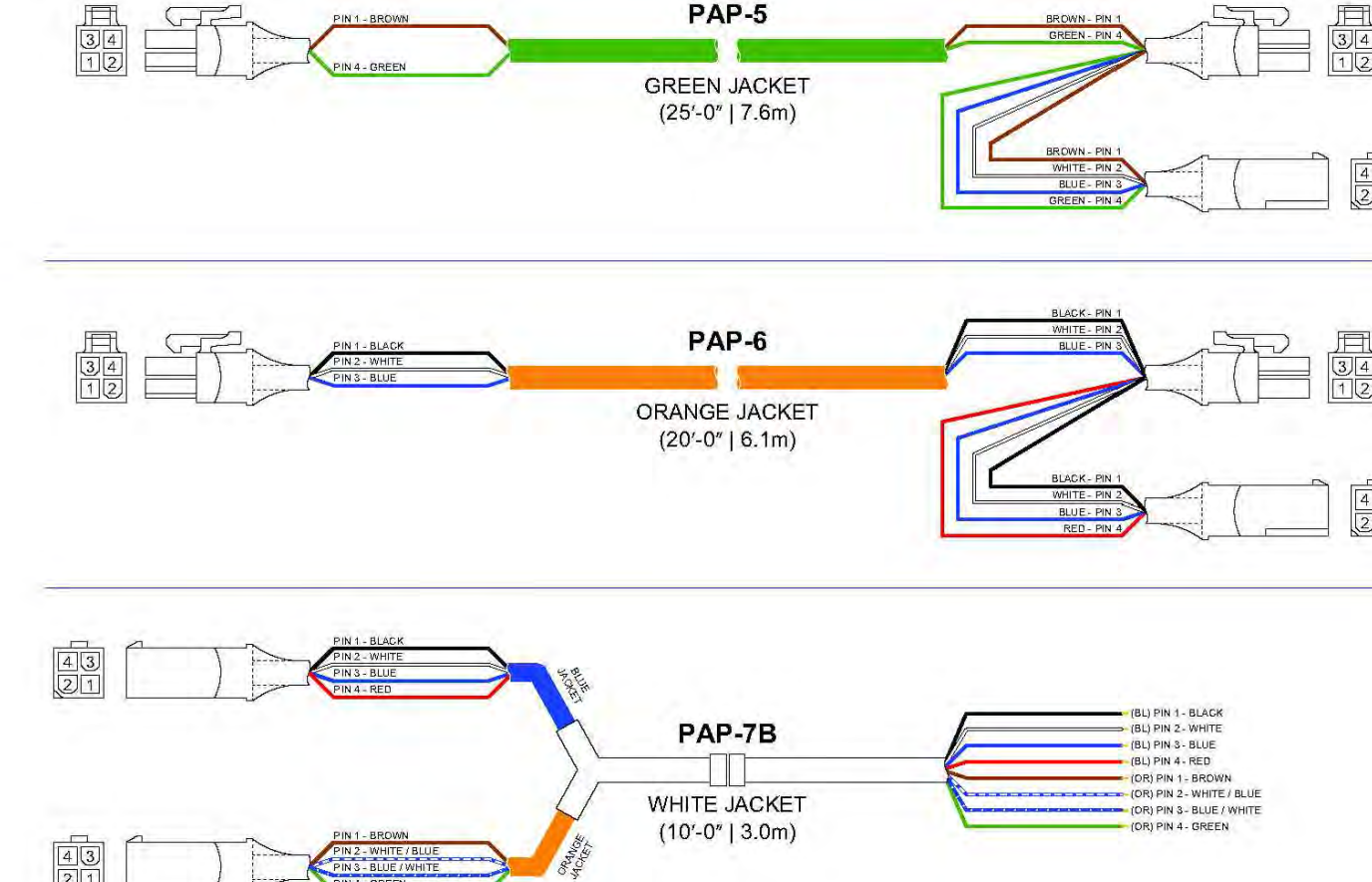


DATA SHEET

Plug & Play Modular Cables (Molex Connections)

MODEL: PAP

STANDARD CONFIGURATIONS (CONTINUED):



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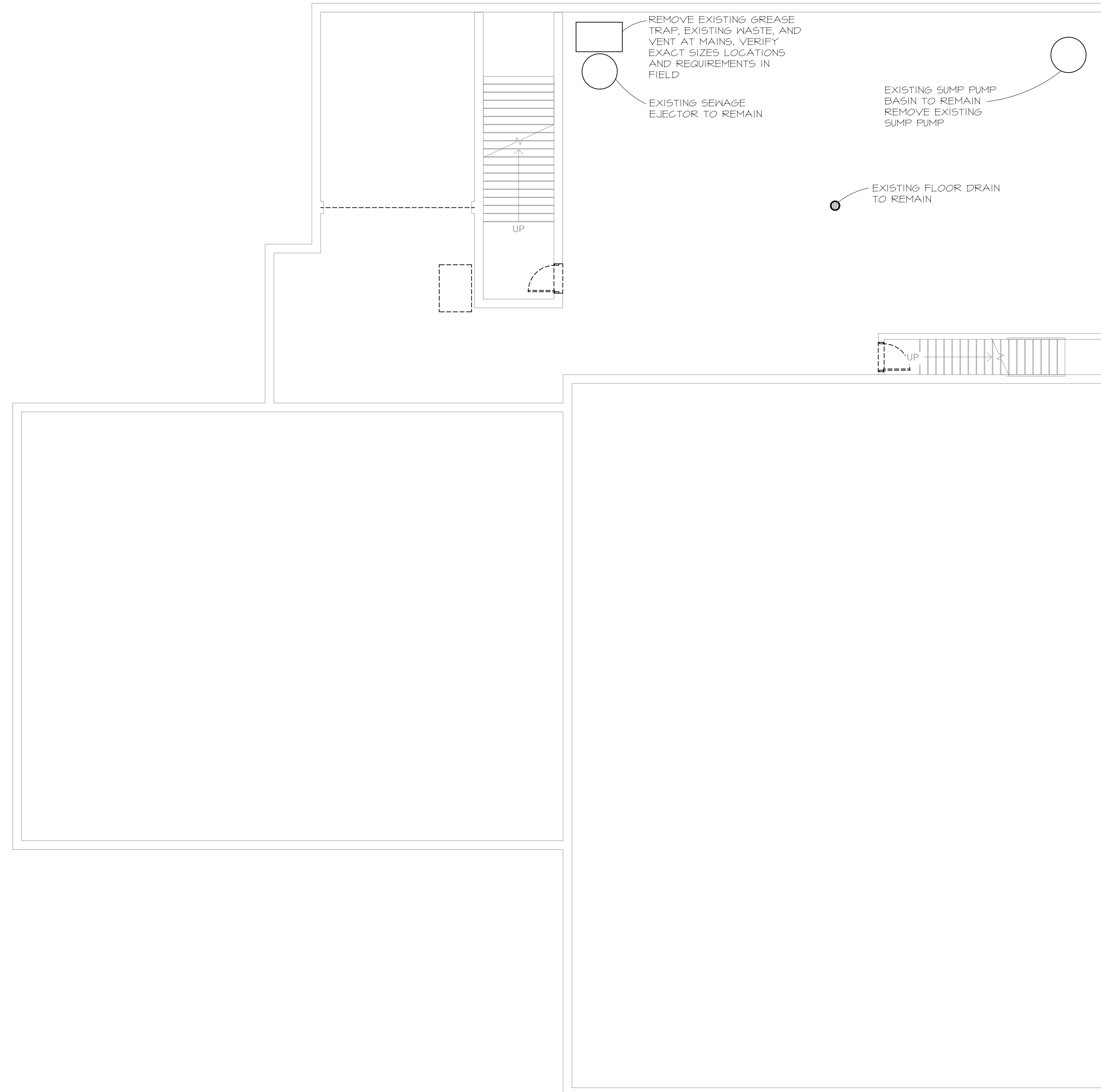
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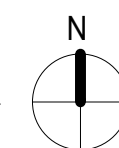
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UNDERFLOOR AIR SUPPLY SYSTEM DETAILS
M3.0



1 BASEMENT PLUMBING DEMOLITION PLAN
SCALE 1/8" = 1'-0"



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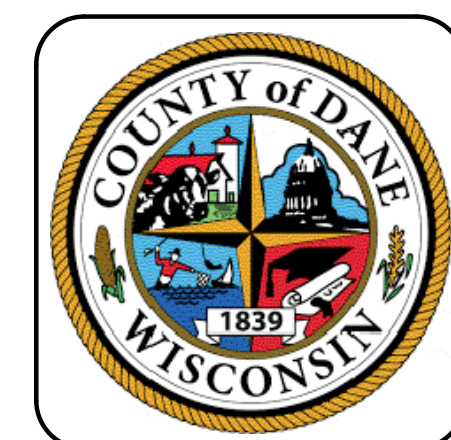
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BASEMENT PLUMBING DEMOLITION PLAN
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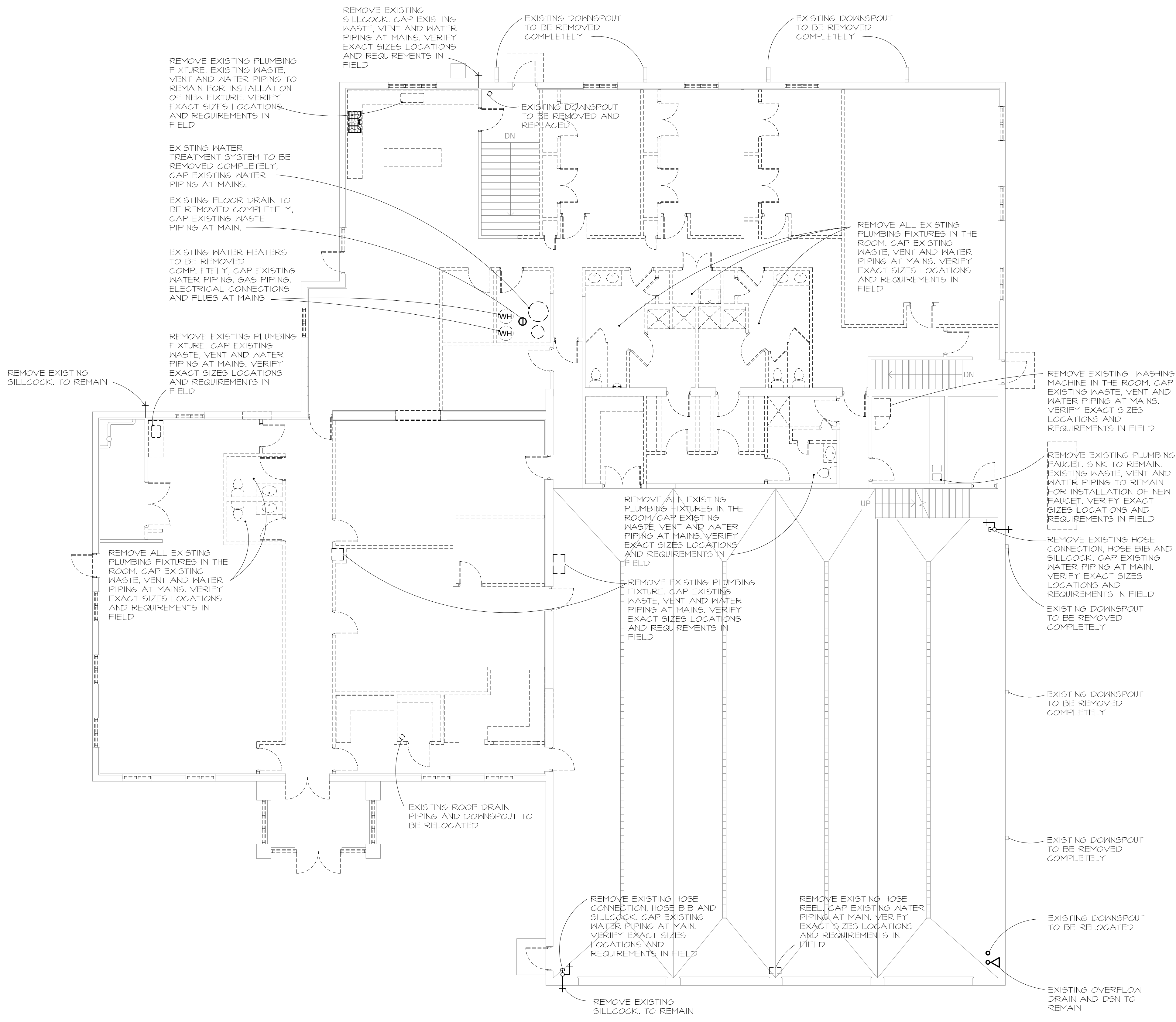
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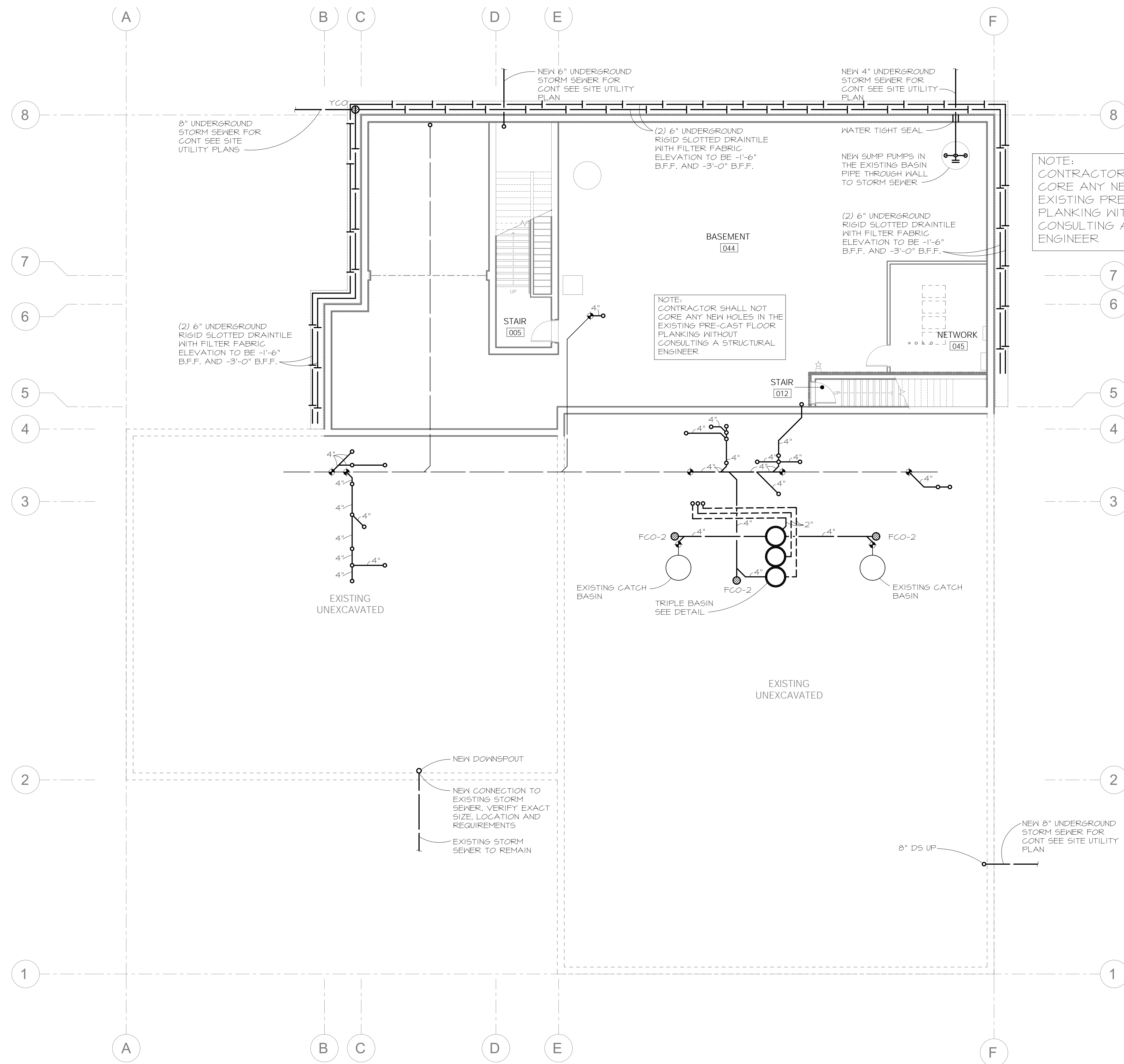
FIRST FLOOR PLUMBING DEMOLITION PLAN
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1 FIRST FLOOR PLUMBING DEMOLITION PLAN
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1 BASEMENT PLUMBING PLAN
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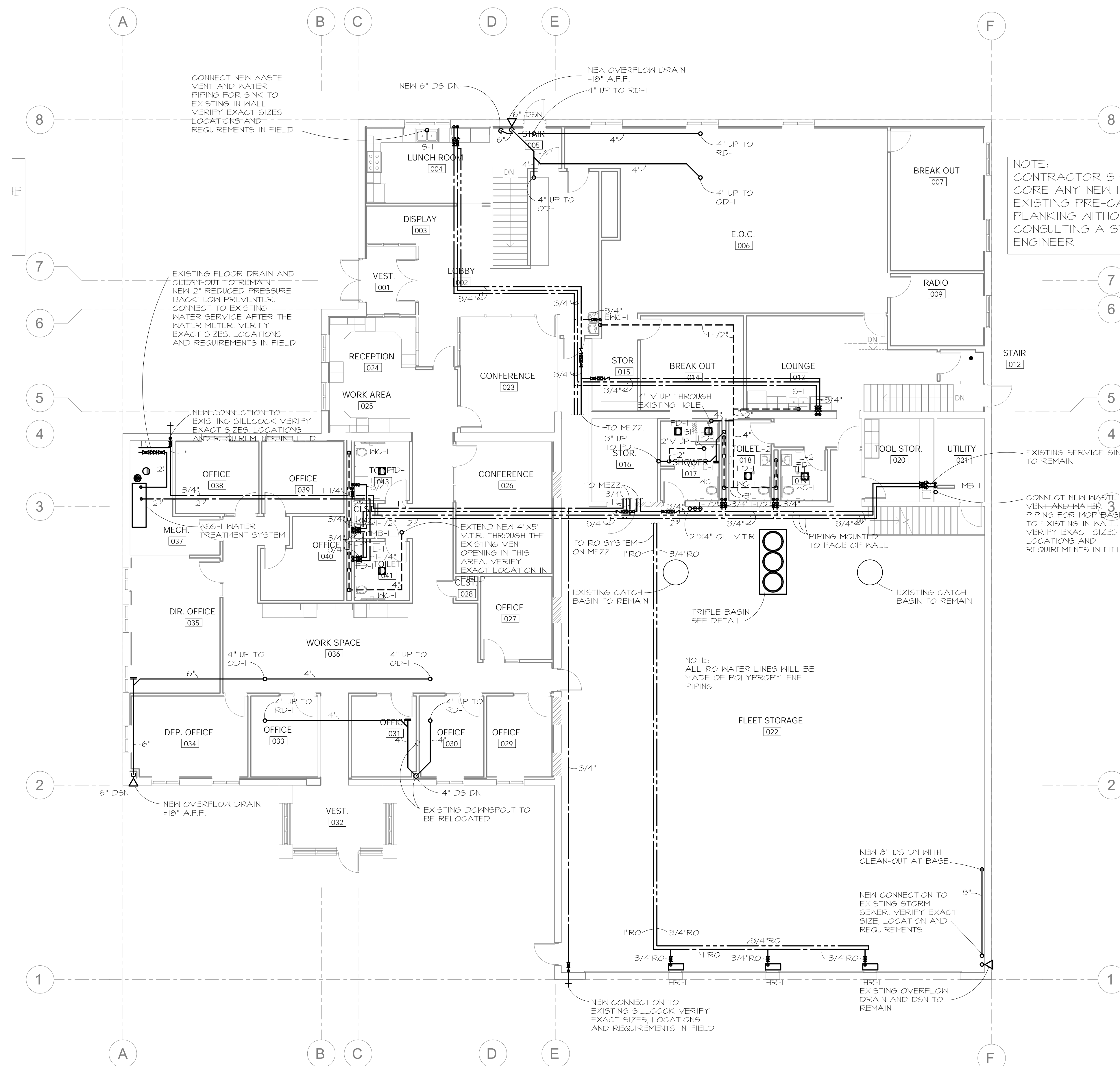
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**BASEMENT
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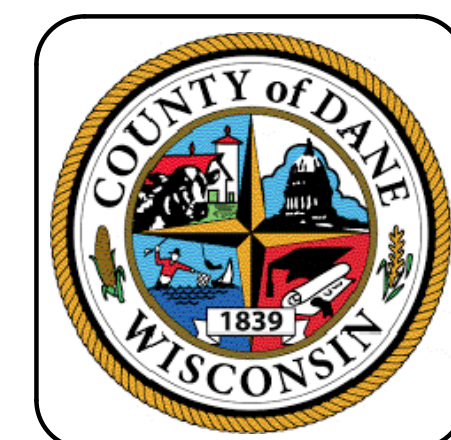
1 FIRST FLOOR PLUMBING PLAN
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FIRST FLOOR PLUMBING PLAN
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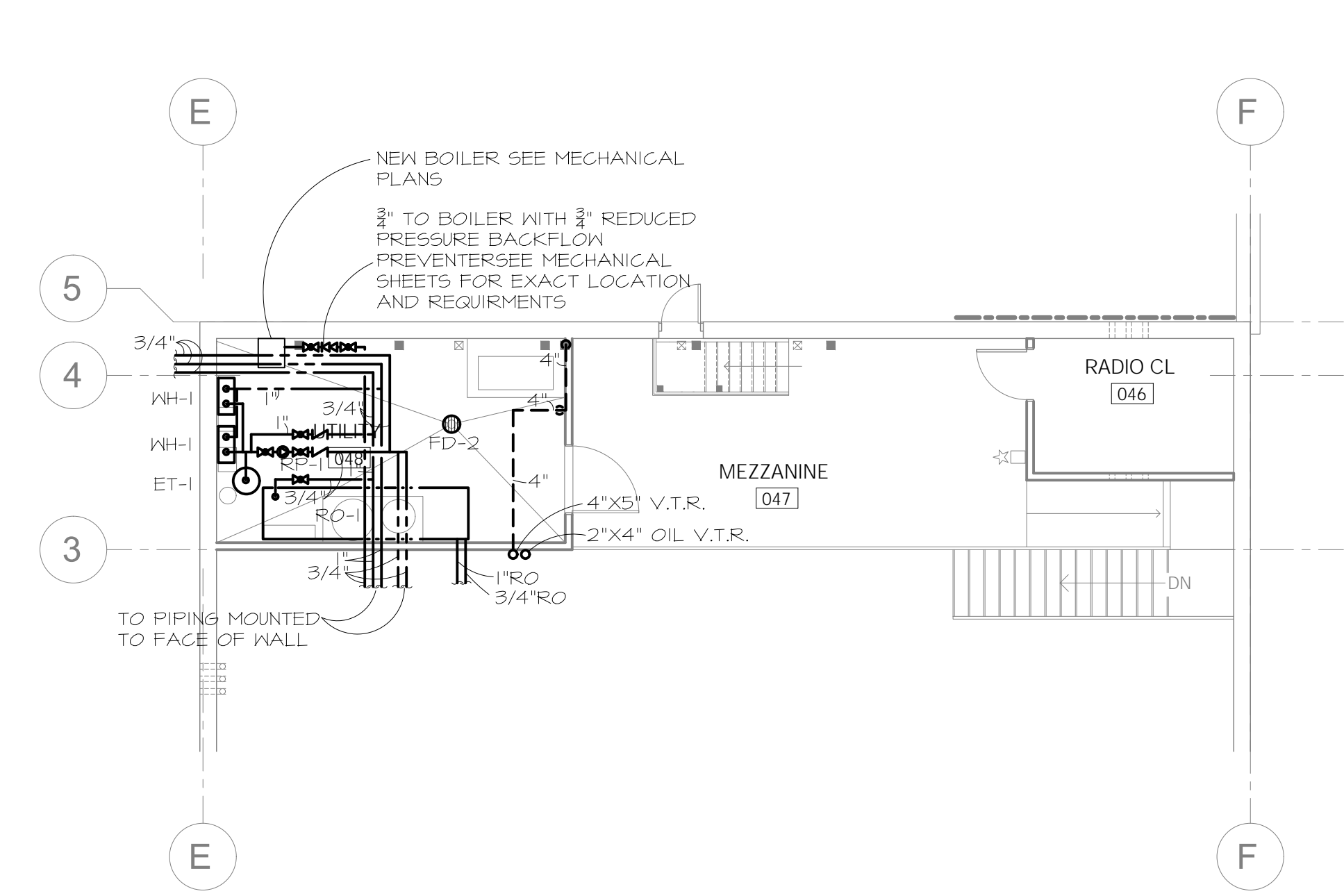
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MEZZANINE PLUMBING PLAN
 P1.2

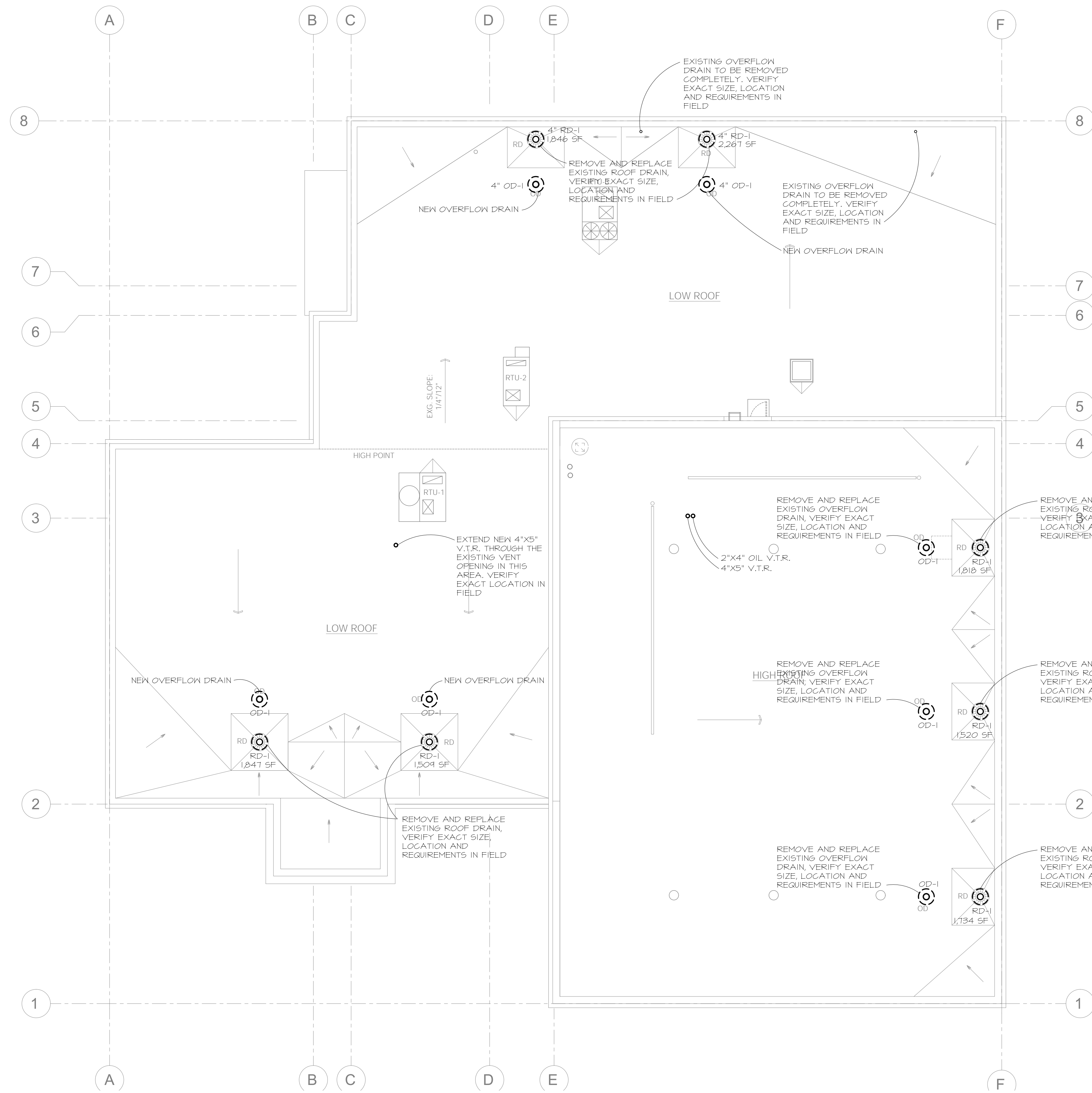
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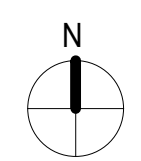
NOTE:
 ALL RO WATER LINES WILL BE MADE OF POLYPROPYLENE (PP) PIPING
 CONTRACTOR SHALL NOT CORE ANY NEW HOLES IN THE EXISTING PRE-CAST FLOOR PLANKING WITHOUT CONSULTING A STRUCTURAL ENGINEER

1 MEZZANINE PLUMBING PLAN
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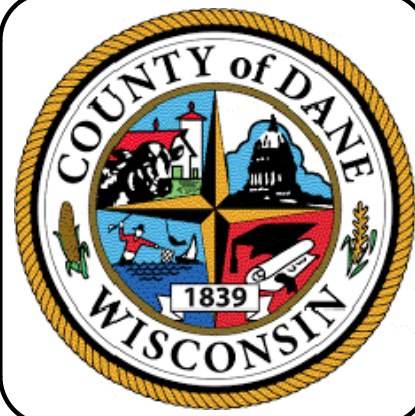


1 ROOF PLUMBING PLAN
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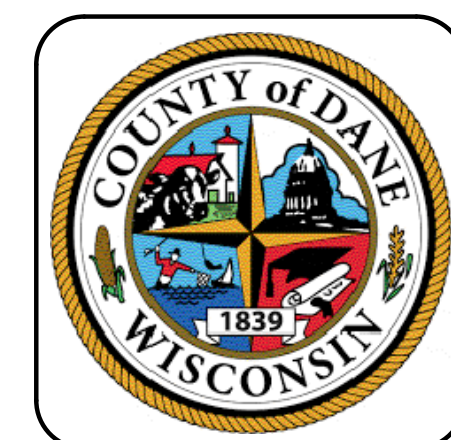
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ROOF PLUMBING PLAN
P1.3

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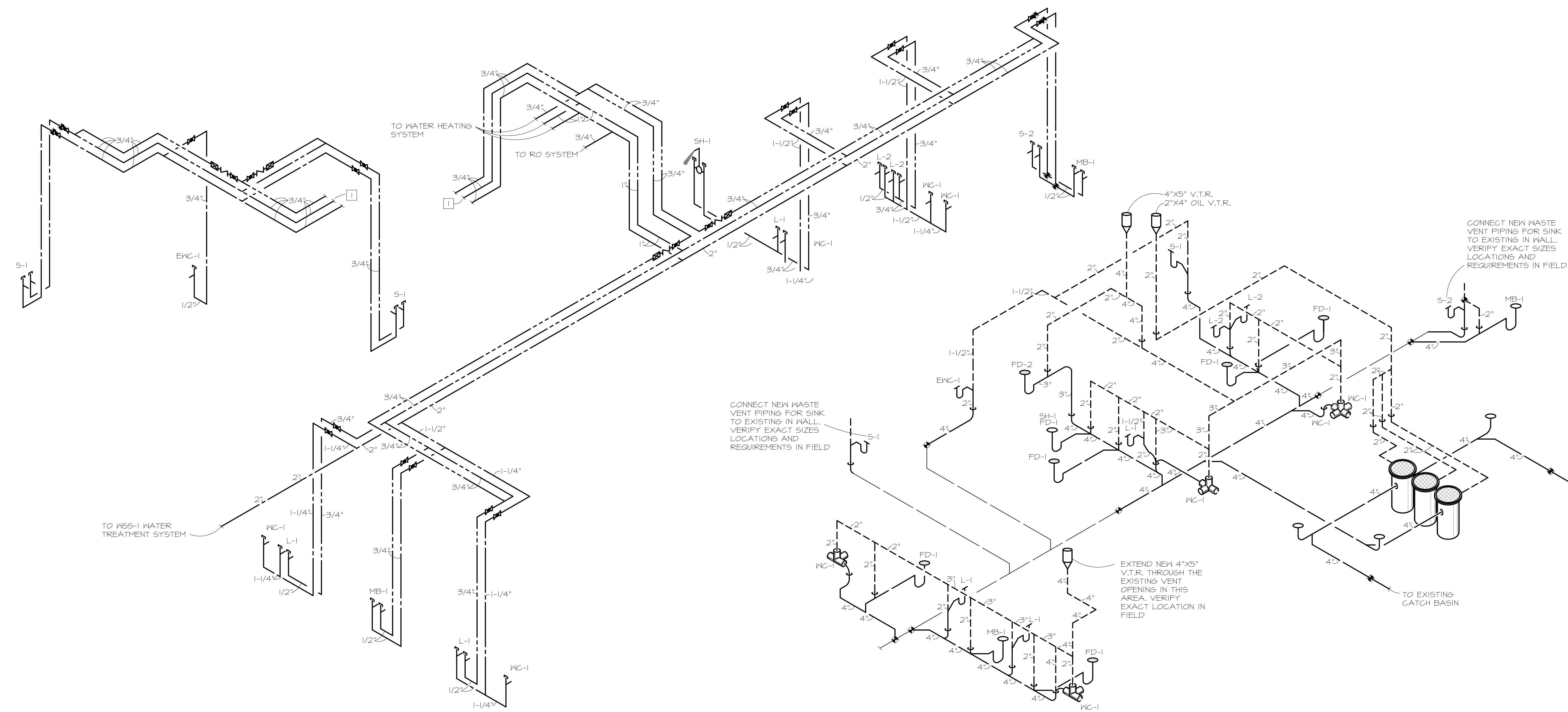
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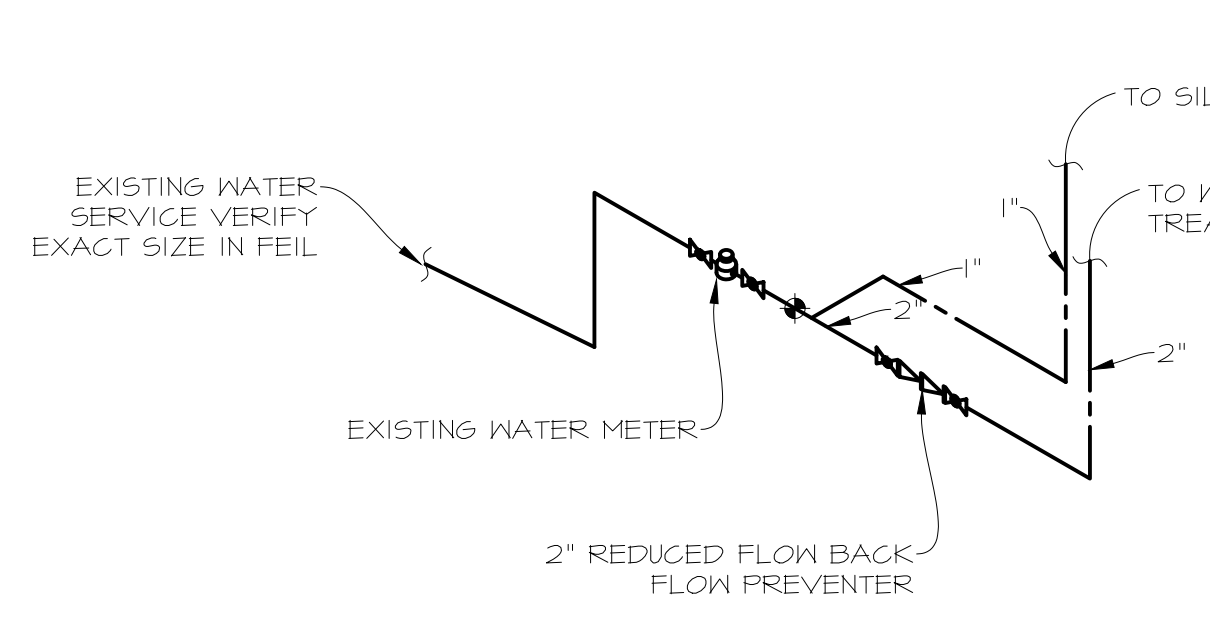
PLUMBING DETAILS AND DIAGRAMS
 P2.2

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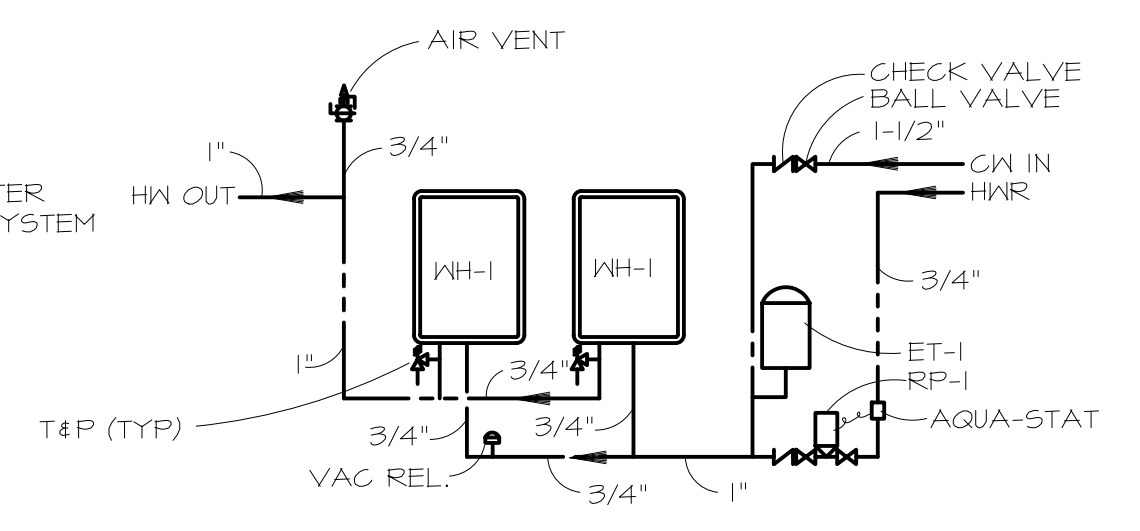


1 DIAGRAM WATER PIPING

2 DIAGRAM2 WASTE AND VENT PIPING



3 WATER SERVICE DETAIL



4 DETAIL GAS FIRED TANKLESS WATER HEATER (WH-1)
 N.T.S.

NOTE:
 1. PROVIDE VACUUM RELIEF VALVE ON ALL ELEVATED AND BOTTOM FED WATER HEATERS.
 2. SEE MECHANICAL SHEETS FOR FLUE AND GAS PIPING.
 3. MOUNT AT 60" ABOVE FINISHED FLOOR.

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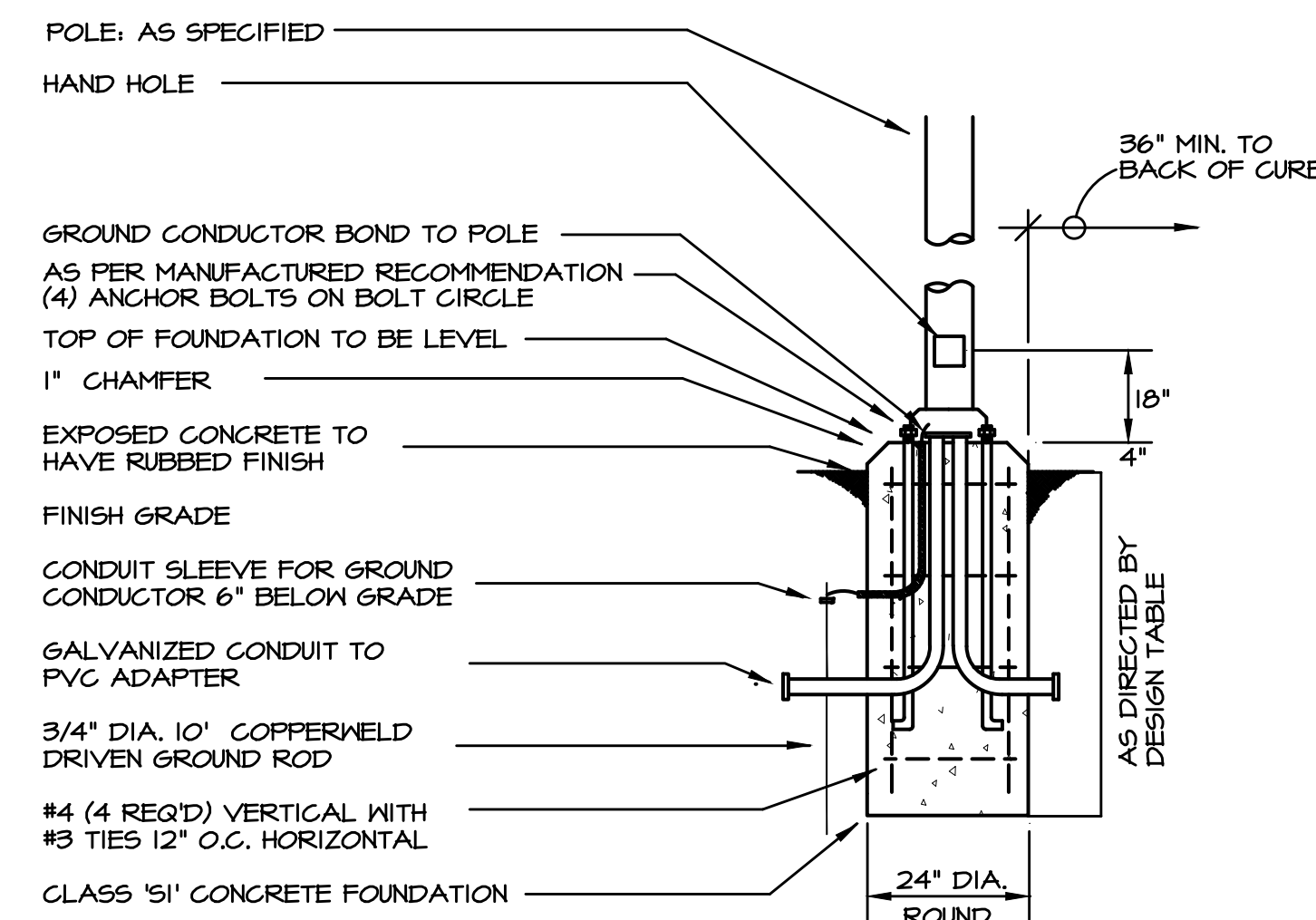
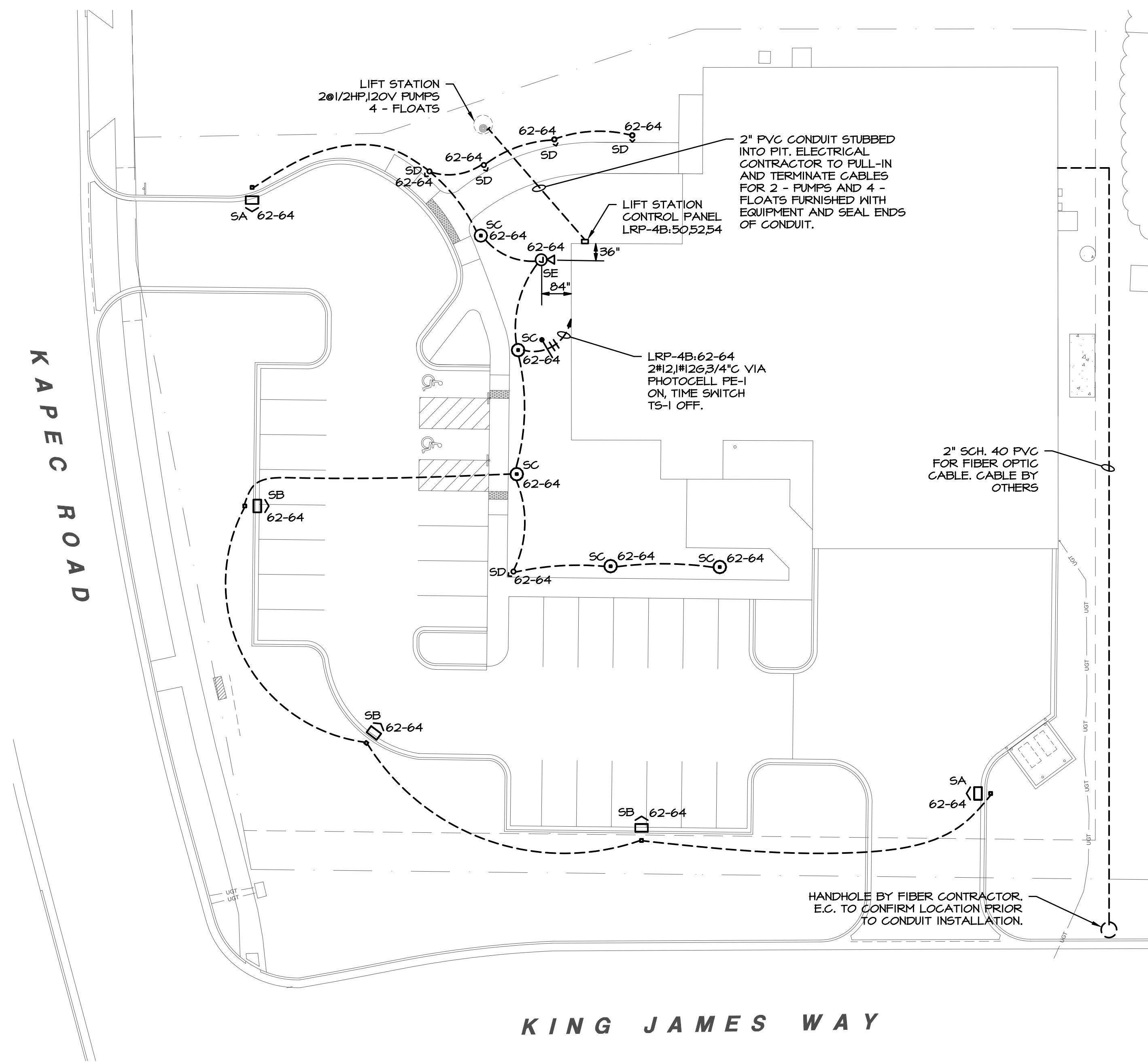
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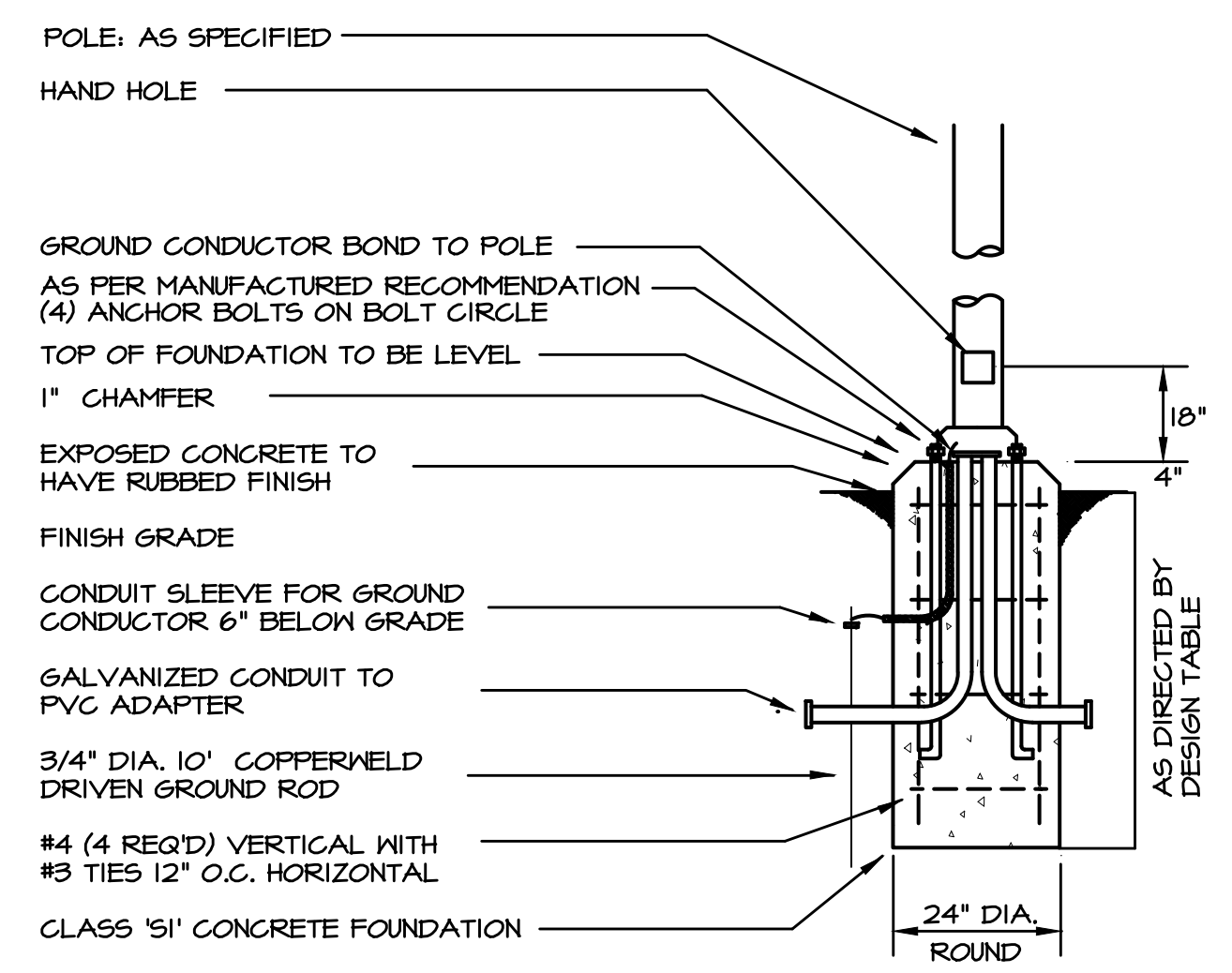
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ELECTRICAL SITE PLAN
ES1.0



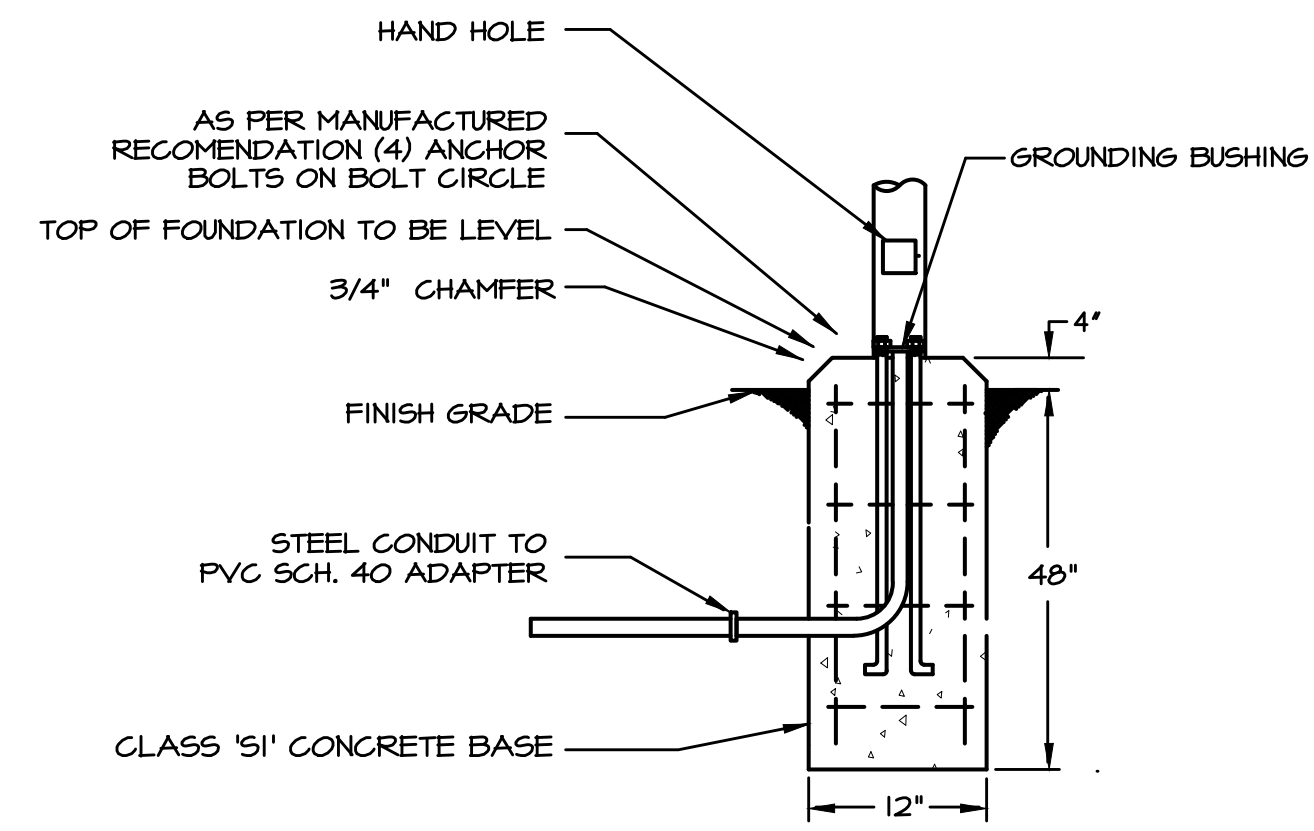
TYPE SA & SB POLE BASE DETAIL
 NOT TO SCALE

TYPE OF SOIL		DESIGN DEPTH OF FOUNDATION (IN FEET)
DESCRIPTIONS	STANDARDS	20' POLE
1. SOFT CLAY	QU-0.25-0.5 TSF	14.0
2. MED. STIFF CLAY	QU-0.5-1.0 TSF	9.5
3. STIFF CLAY	QU-1.0-2.0 TSF	7.5

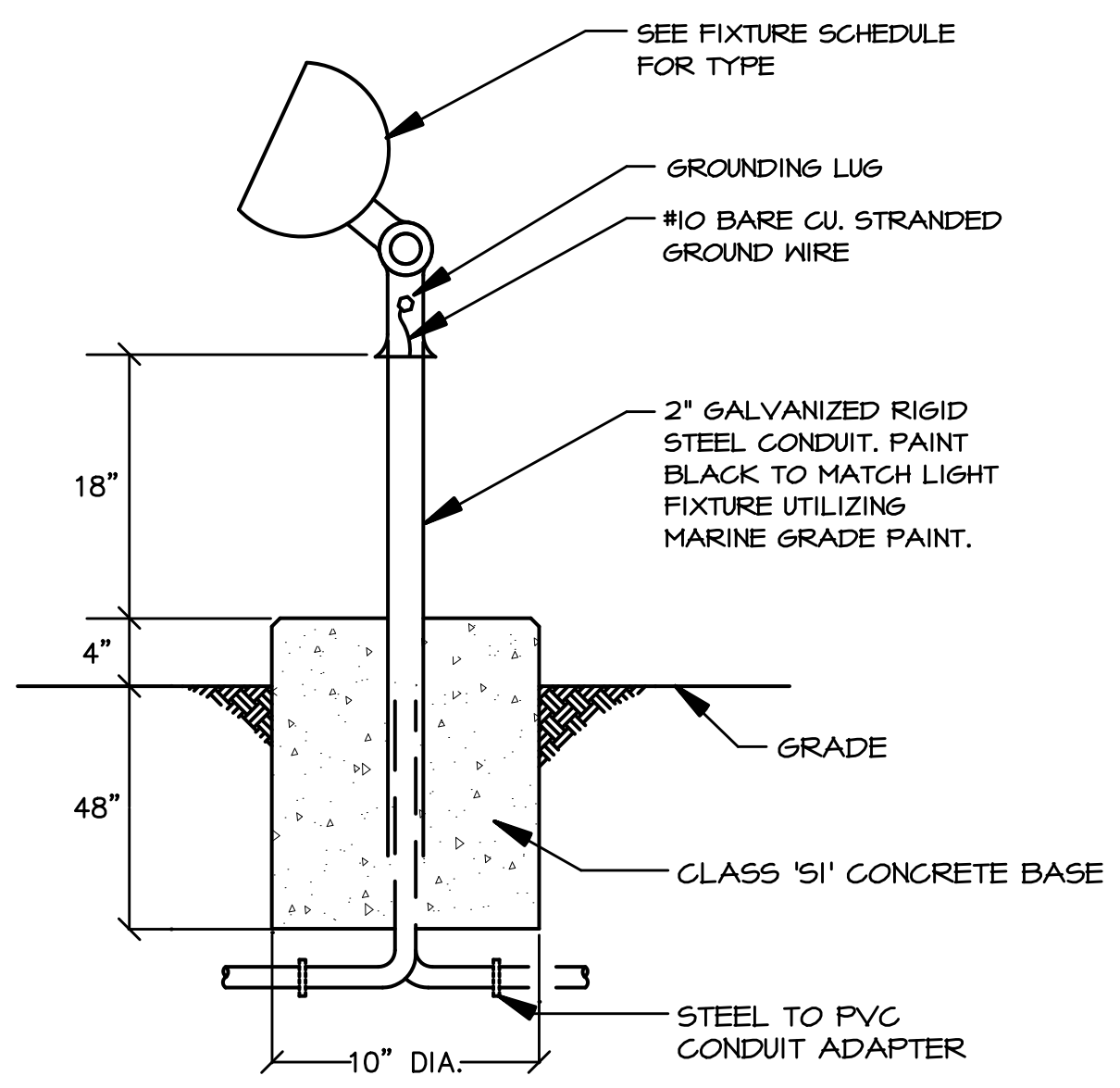


TYPE SC POLE BASE DETAIL
 NOT TO SCALE

TYPE OF SOIL		DESIGN DEPTH OF FOUNDATION (IN FEET)
DESCRIPTIONS	STANDARDS	10' POLE
1. SOFT CLAY	QU-0.25-0.5 TSF	12.0
2. MED. STIFF CLAY	QU-0.5-1.0 TSF	8.5
3. STIFF CLAY	QU-1.0-2.0 TSF	6.5



TYPE SD BOLLARD BASE DETAIL
 NOT TO SCALE



DETAIL - TYPE SE FLOOD LIGHT
 NOT TO SCALE

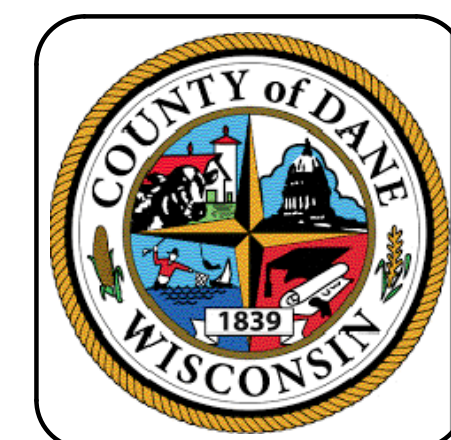
SITE LIGHTING FIXTURE SCHEDULE

TYPE	DESCRIPTION & FEATURES	LAMPS	MOUNTING	VOLT	SPECIFIED MANUFACTURER AND CATALOG NUMBER
		TYPE	CLG./POLE-TYPE		
SA	POLE MOUNTED LUMINAIRE	71W LED	20'-0" POLE	208	LITHONIA #DSXO-LED-P3-40K-T3M-MVOLT-RPA-HS-DBLXD W/ #RS5-20-4B-DM19AS-DBLXD POLE
SB	POLE MOUNTED LUMINAIRE	92W LED	20'-0" POLE	208	LITHONIA #DSXO-LED-P4-40K-TFTM-MVOLT-RPA-HS-DBLXD W/ #RS5-20-4B-DM19AS-DBLXD POLE
SC	POLE MOUNTED LUMINAIRE	25W LED	10'-0" POLE	208	LITHONIA #RADPT-LED-PI-30K-5YM-MVOLT-RADPT20-DBLXD W/ #RS5-10-4B-T20-DBLXD POLE
SD	41.5"H BOLLARD	19W LED	BASE	208	RADB-LED-P4-30K-ASY-MVOLT-BTSDBLXD-BCCDBLXD-DBLXD
SE	FLOODLIGHT	21W LED	2" GR5/BASE	208	LITHONIA #DSXFI-LED-PI-40K-WFR-MVOLT-IS-BDLXD

- NOTES:**
- VERIFY TYPE OF MOUNTING FOR ALL LIGHTING FIXTURES PRIOR TO ORDERING.
 - PROVIDE ALL ADDITIONAL HARDWARE FOR FIXTURE MOUNTING AS REQUIRED AT NO EXTRA COST.
 - THE FIXTURE SCHEDULE DOES NOT NECESSARILY LIST ALL ACCESSORIES AND HARDWARE NECESSARY FOR THE COMPLETION OF INSTALLATION. NOR DOES IT DETAIL THE CEILING CONSTRUCTION TO BE ENCOUNTERED. IT IS THE CONTRACTOR'S RESPONSIBILITY TO PROPERLY DETERMINE AND PROVIDE CORRECT COMPONENTS, ACCESSORIES, AND HARDWARE AS REQUIRED FOR THE INSTALLATION.
 - CONTRACTOR SHALL COORDINATE WITH ARCHITECTURAL DRAWINGS AND CIVIL CONTRACTOR FOR EXACT LIGHTING FIXTURE LOCATIONS AND HEIGHTS.
 - ALL LAMPS SHALL BE 4000K, UNLESS OTHERWISE INDICATED.

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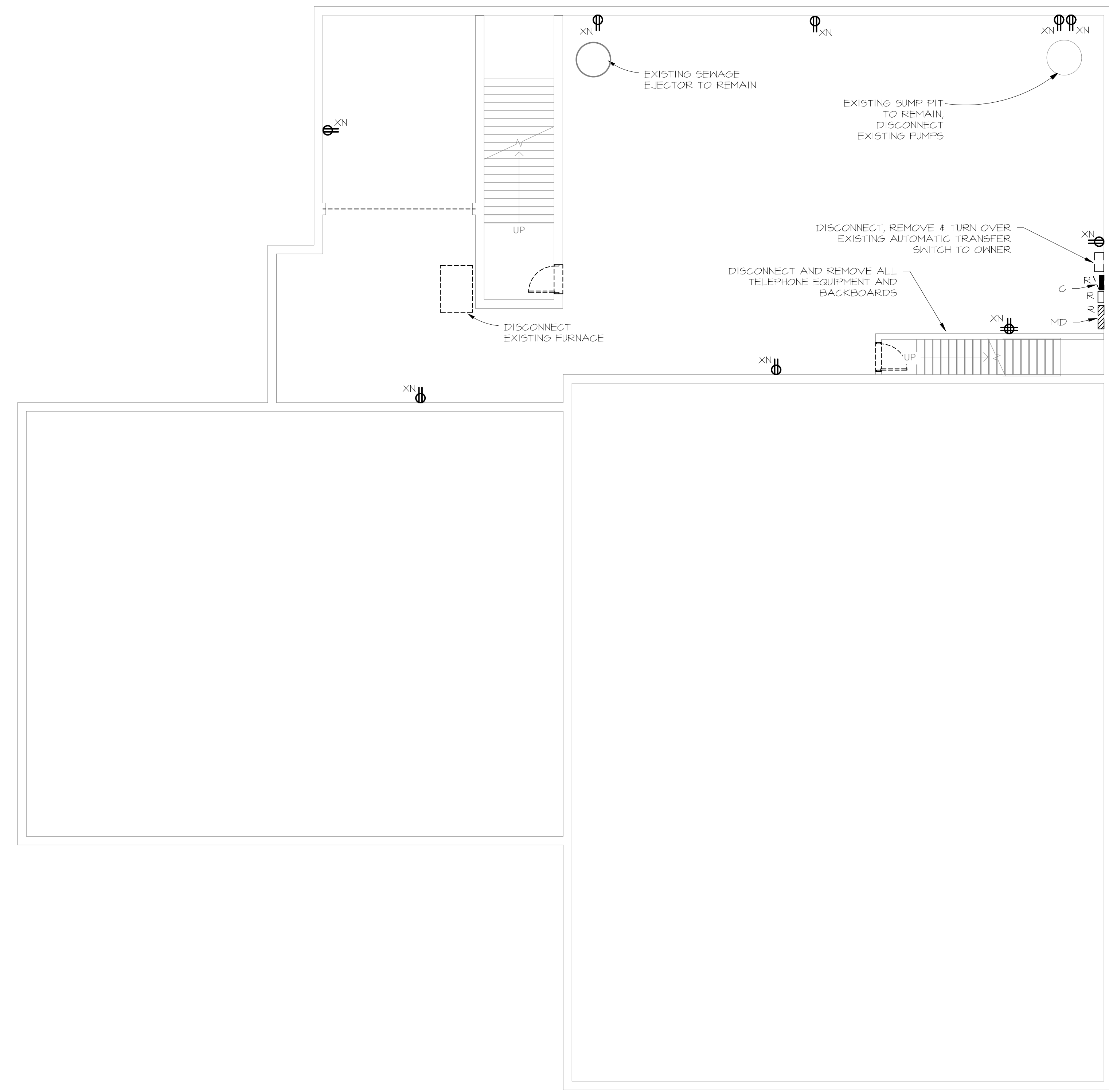
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ELECTRICAL BASEMENT DEMOLITION PLAN
 ED1.0

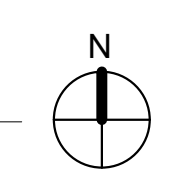


DEMOLITION LEGEND
 X - EXISTING TO REMAIN
 R - EXISTING TO BE REMOVED
 XN - EXISTING DEVICE REPLACED WITH NEW

- DEMOLITION NOTES**
- ELECTRICAL CONTRACTOR SHALL DISCONNECT, REMOVE AND DISPOSE OF ALL EXISTING LIGHTING FIXTURES.
 - ELECTRICAL CONTRACTOR SHALL DISCONNECT AND REMOVE ALL EXISTING BRANCH CIRCUIT WIRING. ALL WIRING SHALL BE NEW.
 - ELECTRICAL CONTRACTOR MAY REUSE IF FEASIBLE, EXISTING BRANCH CIRCUIT CONDUIT PENDING CONTRACTORS FIELD INSPECTION OF PROPER SUPPORTS AND TIGHT FITTINGS. ANY CONDUIT THAT IS NOT RE-USED SHALL BE REMOVED IN ITS ENTIRETY.
 - ELECTRICAL CONTRACTOR SHALL DISCONNECT AND REMOVE ALL EXISTING RECEPTACLES THAT ARE NOT SHOWN TO BE REPLACED WITH NEW.
 - ELECTRICAL CONTRACTOR SHALL COORDINATE WITH MECHANICAL CONTRACTOR DISCONNECTION AND RECONNECTION OF EXISTING GAS DETECTION SYSTEM, AIR COMPRESSOR, CO-RAY-VAC SYSTEM, AND ETC.

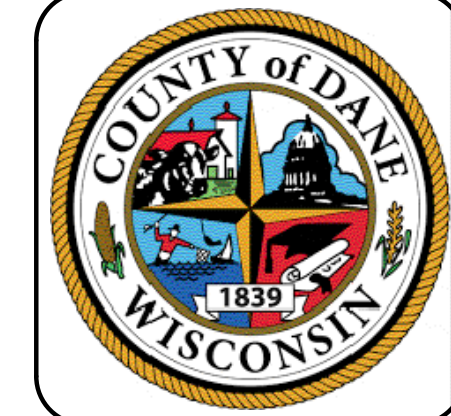
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1 ELECTRICAL BASEMENT DEMOLITION PLAN
 SCALE 1/8" = 1'-0"



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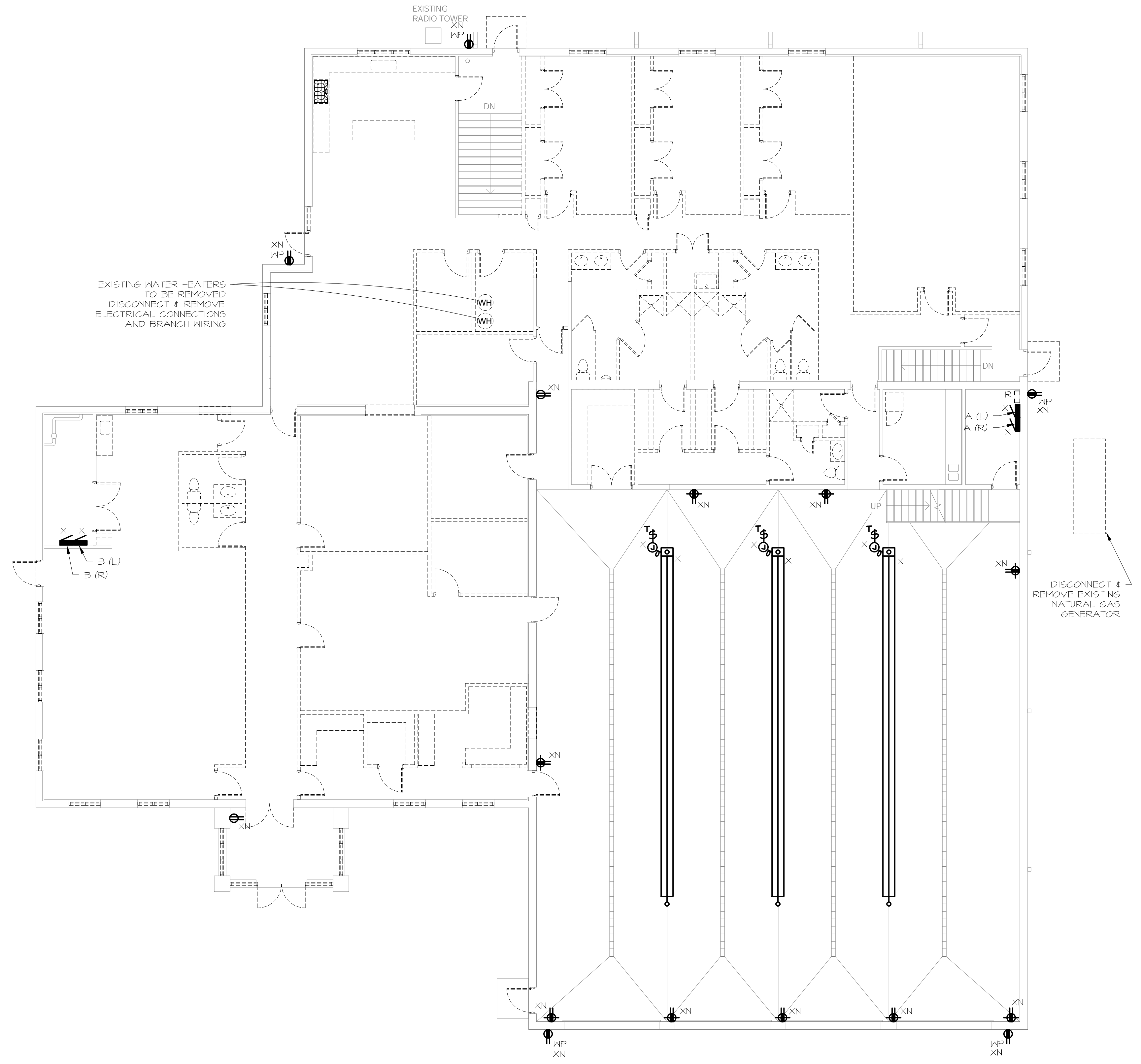
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ELECTRICAL FIRST FLOOR DEMOLITION PLAN
 ED1.1



DEMOLITION LEGEND

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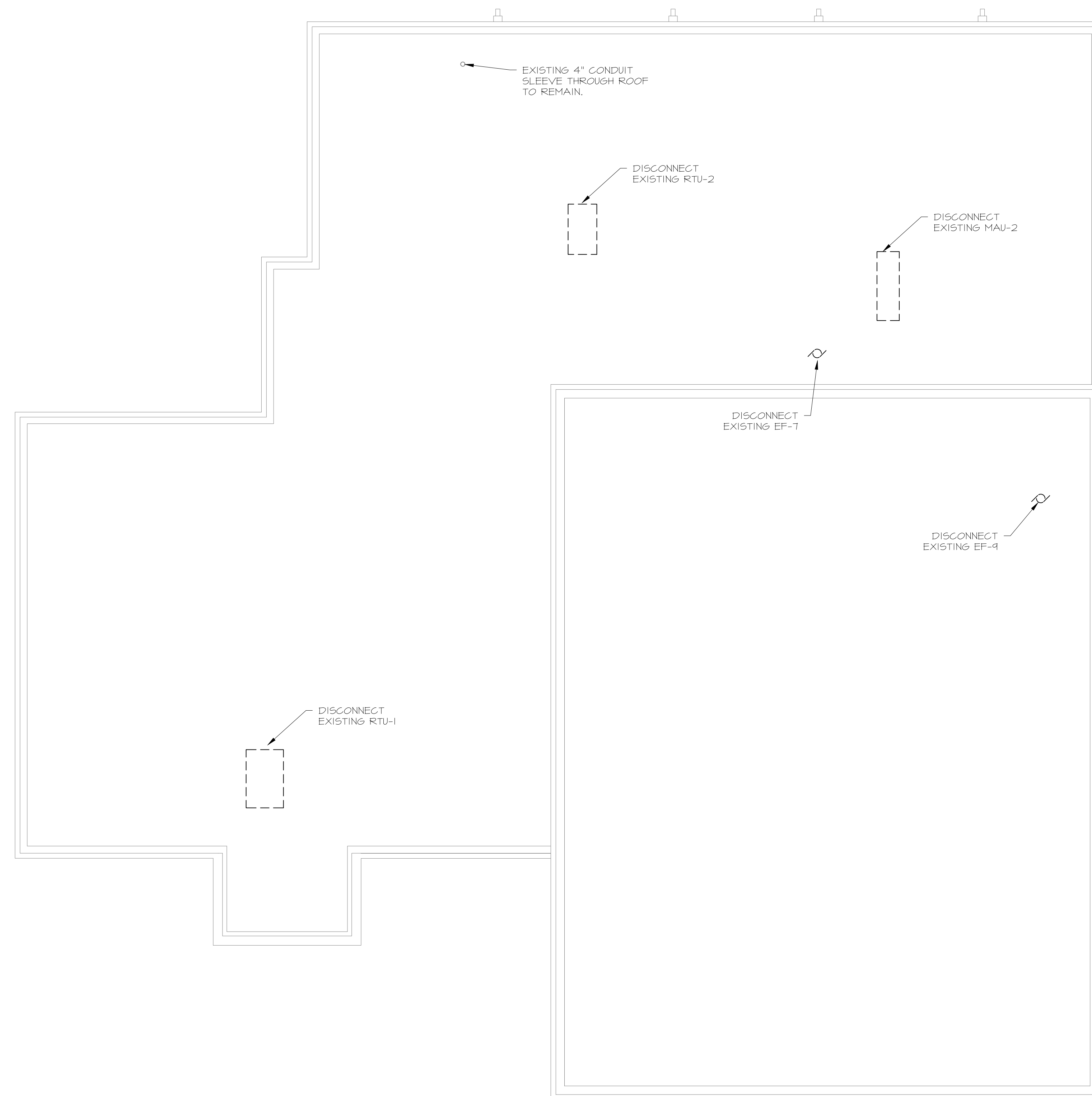
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1 ELECTRICAL FIRST FLOOR DEMOLITION PLAN
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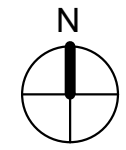
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1 ELECTRICAL ROOF DEMOLITION PLAN
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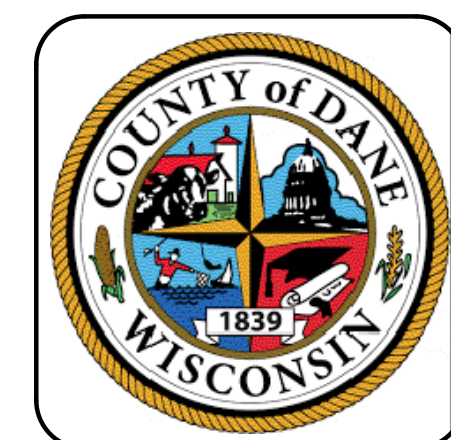
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ELECTRICAL ROOF DEMOLITION PLAN
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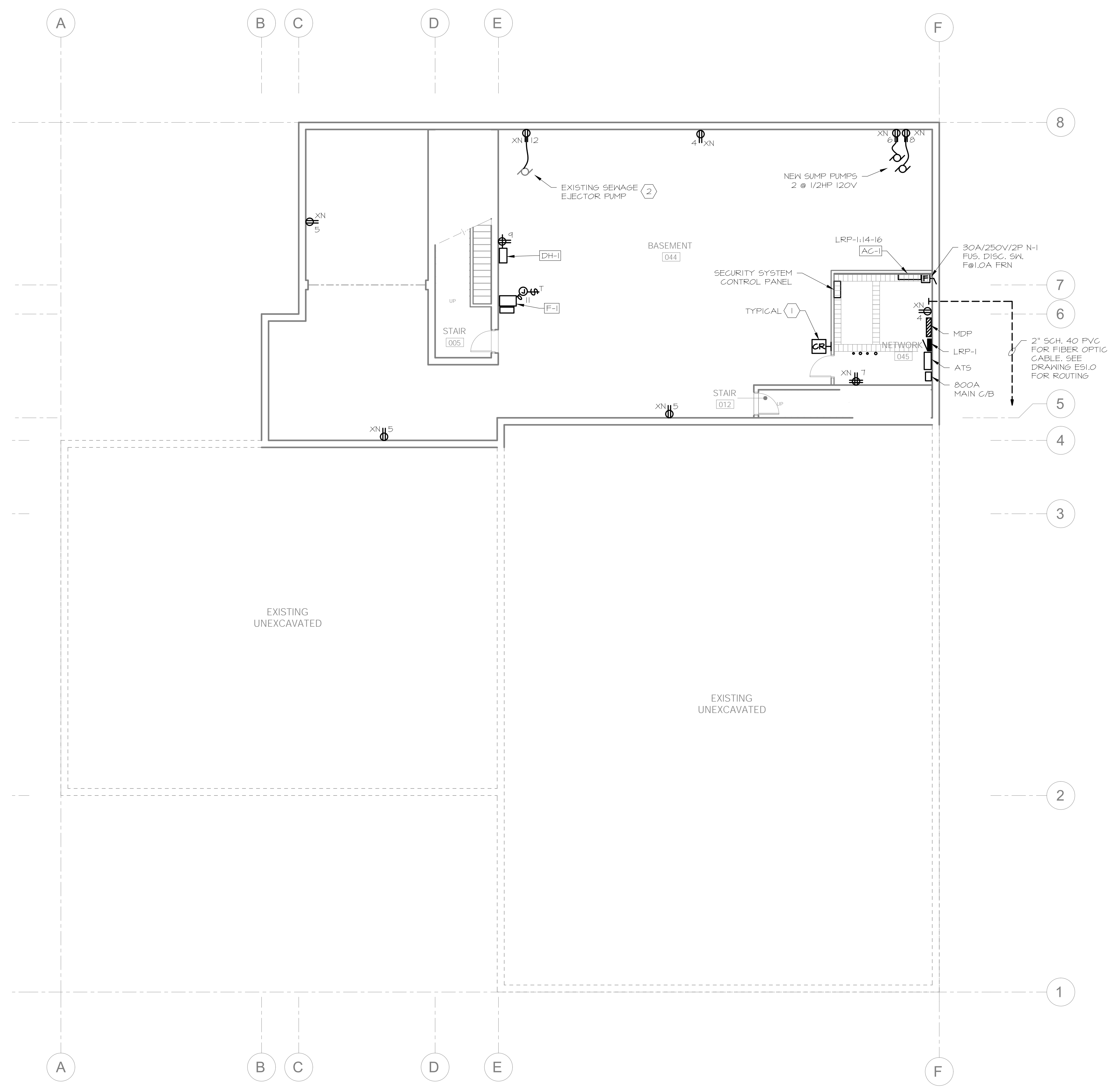
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ELECTRICAL BASEMENT POWER PLAN
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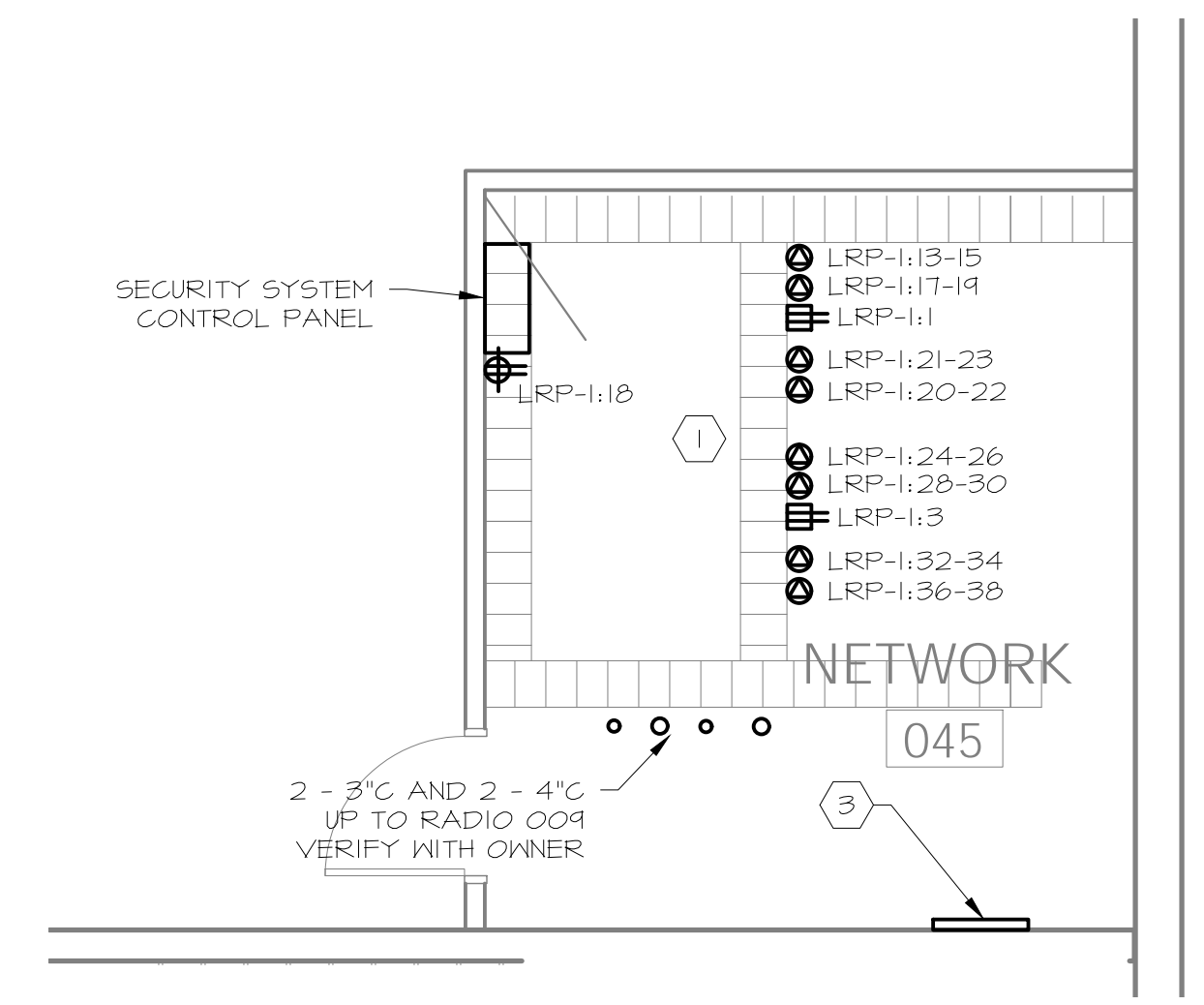


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 XN - EXISTING DEVICE REPLACED WITH NEW

KEYED NOTES

- ELECTRICAL CONTRACTOR SHALL REFER TO COMMUNICATIONS "T", AUDIOVISUAL "AV" AND SECURITY "SS" DRAWINGS FOR ADDITIONAL REQUIRED JUNCTION BOX LOCATIONS AND CONDUIT REQUIREMENTS.
- ALL EXISTING SYSTEMS TO REMAIN SHALL BE TESTED FOR OPERATION AND FUNCTIONALITY.
- ELECTRICAL CONTRACTOR TO FURNISH AND INSTALL 100% CU GROUND BUS, 1/4" X 4" X 24" WITH STANDOFFS @ +96" A.F.F. SEE GROUNDING DETAIL ON DRAWING E4.0.

NOTE: ELECTRICAL CONTRACTOR SHALL NOT CORE ANY NEW HOLES IN THE EXISTING PRE-CAST FLOOR PLANKING WITHOUT CONSULTING THE STRUCTURAL ENGINEER.



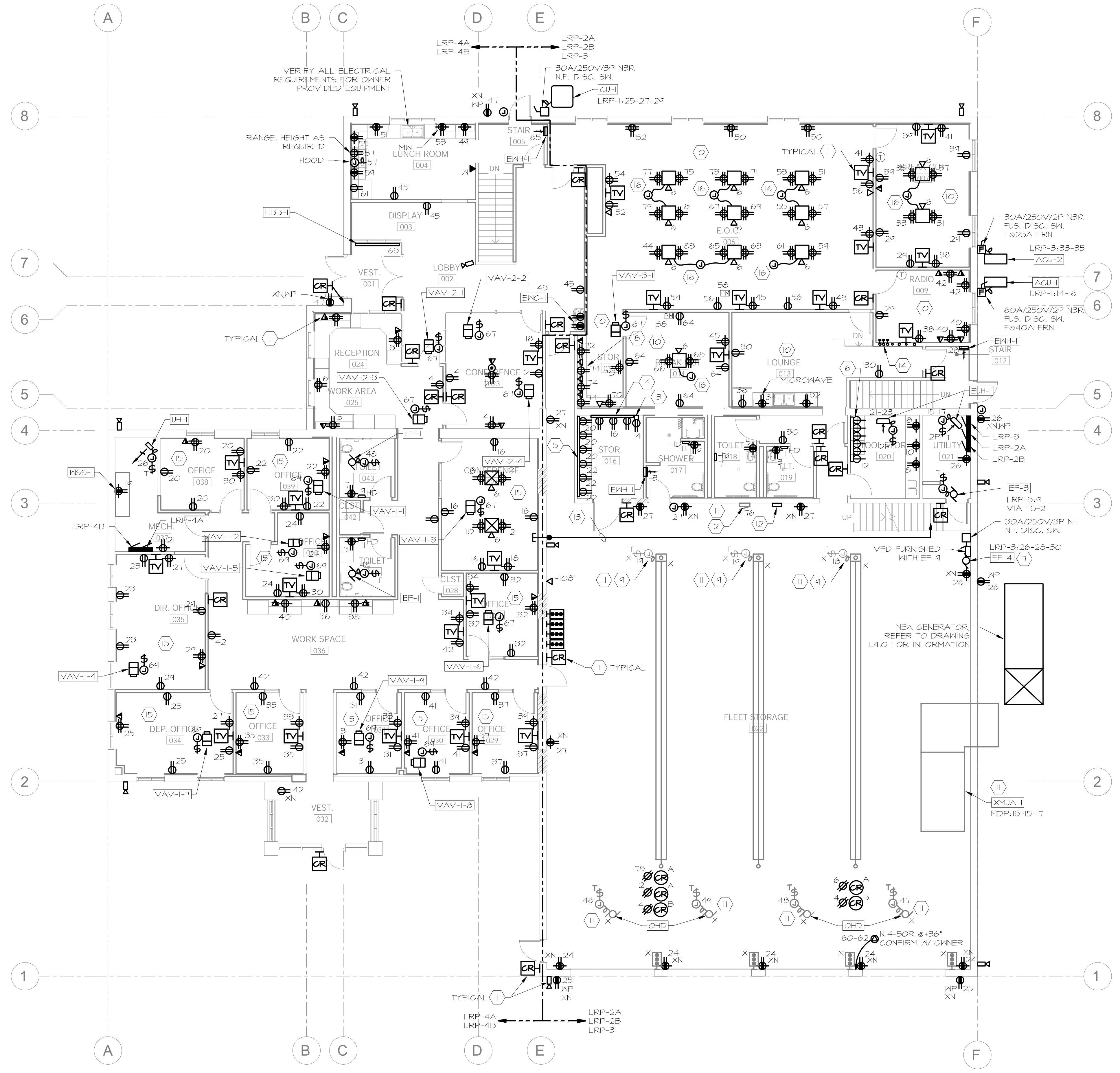
2 ENLARGED NETWORK ROOM PLAN
 SCALE 1/4" = 1'-0"

1 ELECTRICAL BASEMENT POWER PLAN
 SCALE 1/8" = 1'-0"



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DEMOLITION LEGEND

X - EXISTING TO REMAIN
 R - EXISTING TO BE REMOVED
 XN - EXISTING DEVICE REPLACED WITH NEW

KEYED NOTES

- ELECTRICAL CONTRACTOR SHALL REFER TO COMMUNICATIONS "T", AUDIOVISUAL "AV" AND SECURITY "SS" DRAWINGS FOR ADDITIONAL REQUIRED JUNCTION BOX LOCATIONS AND CONDUIT REQUIREMENTS.
- EXISTING GAS DETECTION CONTROL PANEL.
- 6'-0" LONG WIREMOLD #V3000 BASE, COVER, DEVICE BRACKET, DUPLEX COVER, END FEED, ETC. MOUNTED VERTICALLY @ 1'-0" AFF. WITH THREE (3) 20A DUPLEX RECEPTACLES EVENLY SPACED.
- 6'-0" LONG WIREMOLD #V3000 BASE, COVER, DEVICE BRACKET, DUPLEX COVER, END FEED, ETC. MOUNTED HORIZONTALLY WITH THREE (3) 20A DUPLEX RECEPTACLES EVENLY SPACED. CONFIRM MOUNTING HEIGHT WITH OWNER.
- 11'-0" LONG WIREMOLD #V3000 BASE, COVER, DEVICE BRACKET, DUPLEX COVER, END FEED, ETC. MOUNTED HORIZONTALLY WITH SIX (6) 20A DUPLEX RECEPTACLES EVENLY SPACED MOUNTED 6" ABOVE COUNTER.
- 6'-0" LONG WIREMOLD PLUG-HOLD #V206B604 WITH SIX (6) SINGLE RECEPTACLES SPACED AT 9" ON CENTER MOUNTED 6" ABOVE COUNTER TO CENTER LINE OF WIREMOLD.
- INTERLOCK NEW EF-4 WITH EXISTING XMUA-1 AND EXISTING GAS DETECTION SYSTEM. REFER TO MECHANICAL DRAWINGS FOR ADDITIONAL INFORMATION.
- THREE (3) DUPLEX RECEPTACLES AND THREE (3) DATA OUTLETS MOUNTED AT LOCATIONS / HEIGHTS AS NOTED ON ARCHITECTURAL DRAWING A4.1 / ELEVATION II. CONFIRM WITH OWNER PRIOR TO INSTALLATION.
- RECONNECT EXISTING CO-RAY-VAC TO NEW CIRCUITS AS INDICATED.
- THERE SHALL BE NO BACK-TO-BACK DEVICES INSTALLED IN THE FOLLOWING ROOMS RELATED TO THE E.O.C. ROOM NUMBERS 006, 007, 009, 013, 014, & 015. ALL DEVICE BOXES INSTALLED IN WALLS SHALL UTILIZE FIRE RATED ACOUSTIC PUDDY PADS.
- ALL EXISTING SYSTEMS TO REMAIN SHALL BE TESTED FOR OPERATION AND FUNCTIONALITY.
- GENERATOR REMOTE ANNUNCIATOR PANEL.
- THREE (3) - 4" EMT CONDUITS ROUTED FROM CEILING SPACE OF CONFERENCE 026 TO RADIO CLOSET 046. SEE DRAWING E1.2 FOR CONTINUATION TO RADIO CLOSET.
- THREE (3) - 4" EMT CONDUITS ROUTED FROM RADIO CLOSET 046. SEE DRAWING E1.2 FOR CONTINUATION, STUB CONDUITS INTO E.O.C. RAISED FLOOR. VERIFY FINAL QUANTITIES, SIZES AND LOCATIONS WITH OWNER PRIOR TO INSTALLATIONS.
- THERE SHALL BE NO BACK-TO-BACK DEVICES INSTALLED IN THE FOLLOWING ROOMS, ROOM NUMBERS 026, 021, 024, 030, 031, 032, 034, 035, 036, 038, 039, AND 040.
- PROVIDE POWERMATE FLEXIBLE CABLES FROM EACH FLOOR BOX IN THE RAISED ACCESS FLOOR TO EACH JUNCTION BOX FOR POWER DISTRIBUTION AND BRANCH CIRCUIT TERMINATIONS. THE CABLE LENGTHS SHALL BE BETWEEN 8'-0" AND 15'-0", TO ACCOMMODATE COMPLETE ACCESS OF POWER THROUGHOUT EACH ROOM. COORDINATE AND VERIFY THE QUANTITIES OF FLOOR BOXES, JUNCTION BOXES AND THE POWERMATE FLEXIBLE CABLE LENGTHS WITH THE ACCESS FLOOR CONTRACTOR.

NOTE: ELECTRICAL CONTRACTOR SHALL NOT CORE ANY NEW HOLES IN THE EXISTING PRE-CAST FLOOR FLANKING WITHOUT CONSULTING THE STRUCTURAL ENGINEER.

1 ELECTRICAL FIRST FLOOR POWER PLAN
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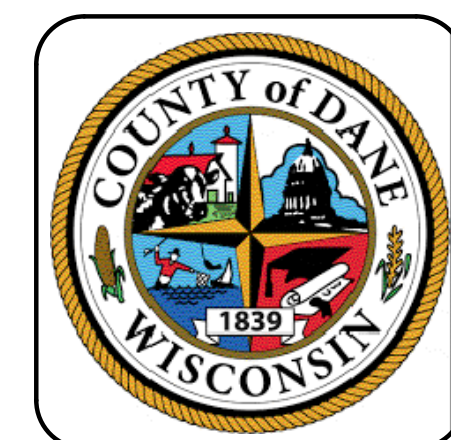
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ELECTRICAL FIRST FLOOR POWER PLAN
E1.1

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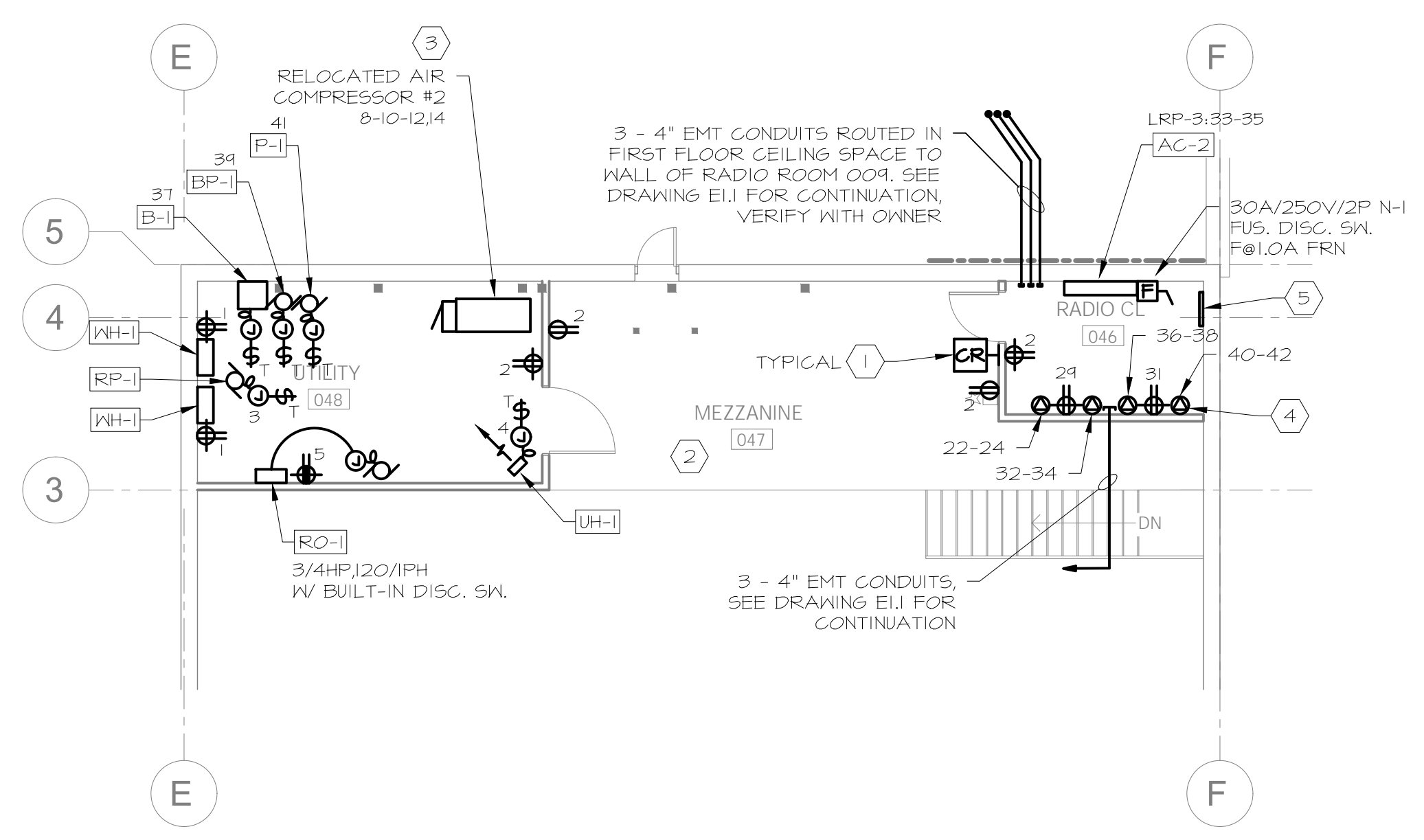
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ELECTRICAL MEZZANINE POWER PLAN
 E1.2



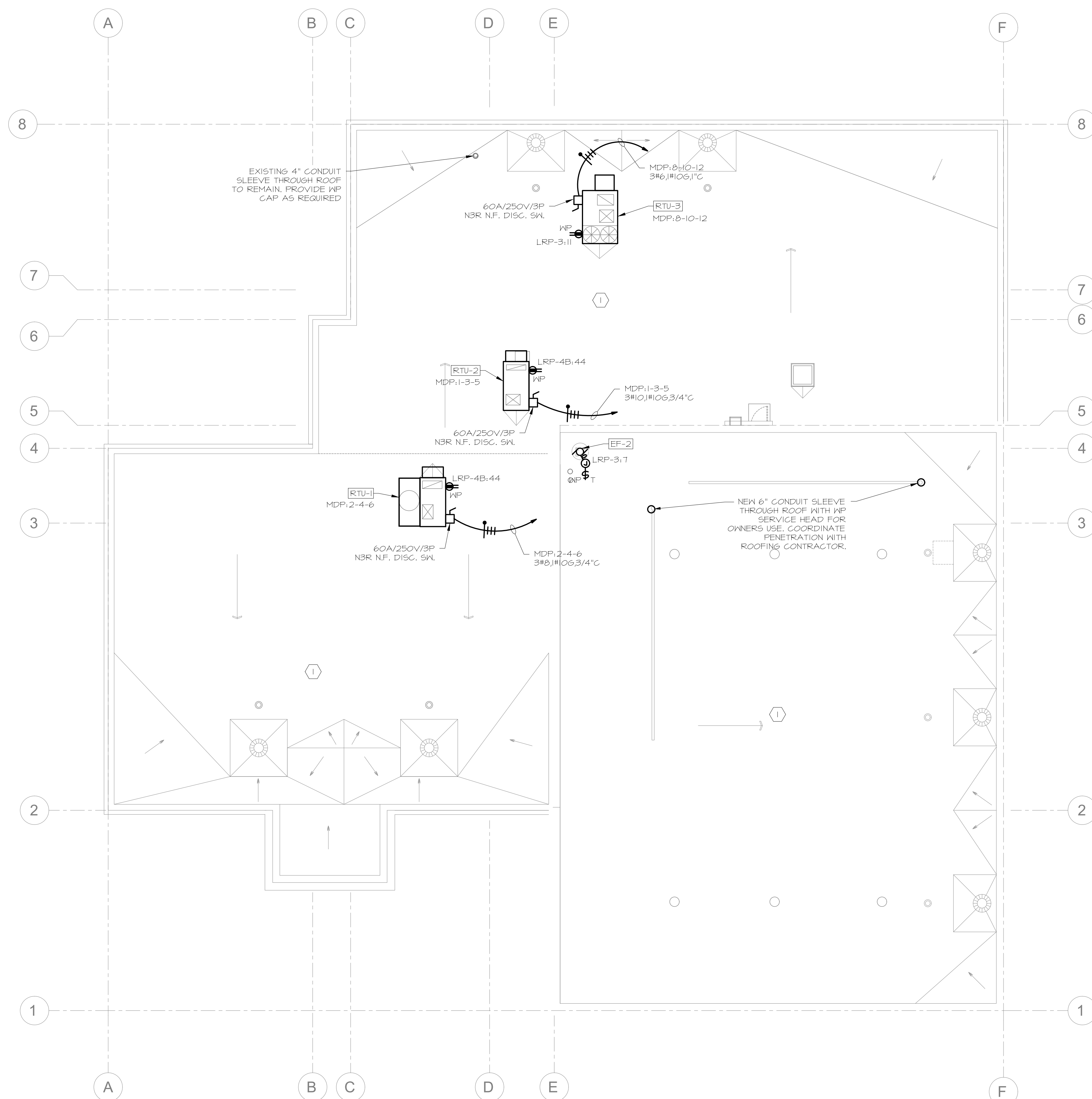
- KEYED NOTES**
- ELECTRICAL CONTRACTOR SHALL REFER TO COMMUNICATIONS "T", AUDIOVISUAL "AV" AND SECURITY "SS" DRAWINGS FOR ADDITIONAL REQUIRED JUNCTION BOX LOCATIONS AND CONDUIT REQUIREMENTS.
 - ALL CIRCUITS INDICATED ON MEZZANINE ORIGINATE FROM PANEL LRP-3 UNLESS NOTED OTHERWISE.
 - ALL EXISTING SYSTEMS TO REMAIN SHALL BE TESTED FOR OPERATION AND FUNCTIONALITY.
 - ELECTRICAL CONTRACTOR TO FIELD VERIFY RECEPTACLE LOCATIONS WITH OWNER PRIOR TO INSTALLATION.
 - ELECTRICAL CONTRACTOR TO FURNISH AND INSTALL 100% CU GROUND BUS, 1/4" X 4" X 24" WITH STANDOFFS @ 496" A.F.F. SEE GROUNDING DETAIL ON DRAWING E4.0.

NOTE: ELECTRICAL CONTRACTOR SHALL NOT CORE ANY NEW HOLES IN THE EXISTING PRE-CAST FLOOR PLANKING WITHOUT CONSULTING THE STRUCTURAL ENGINEER.

1 ELECTRICAL MEZZANINE POWER PLAN
 SCALE 1/8" = 1'-0"

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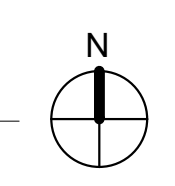
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KEYED NOTES

1. ELECTRICAL CONTRACTOR TO PROVIDE AN ADD ALTERNATE PRICE TO DESIGN, ENGINEER, FURNISH AND INSTALL A UL APPROVED BUILDING LIGHTNING PROTECTION SYSTEM.

1 ELECTRICAL ROOF POWER PLAN
 SCALE 1/8" = 1'-0"



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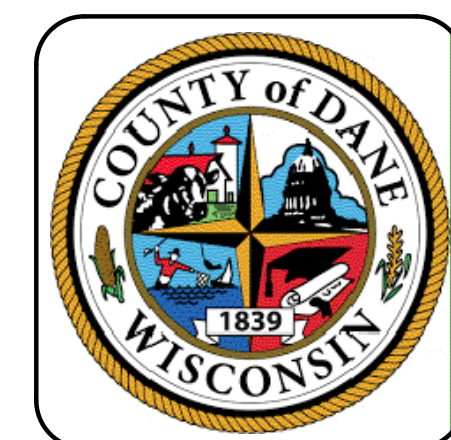
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ELECTRICAL ROOF POWER PLAN
E1.3

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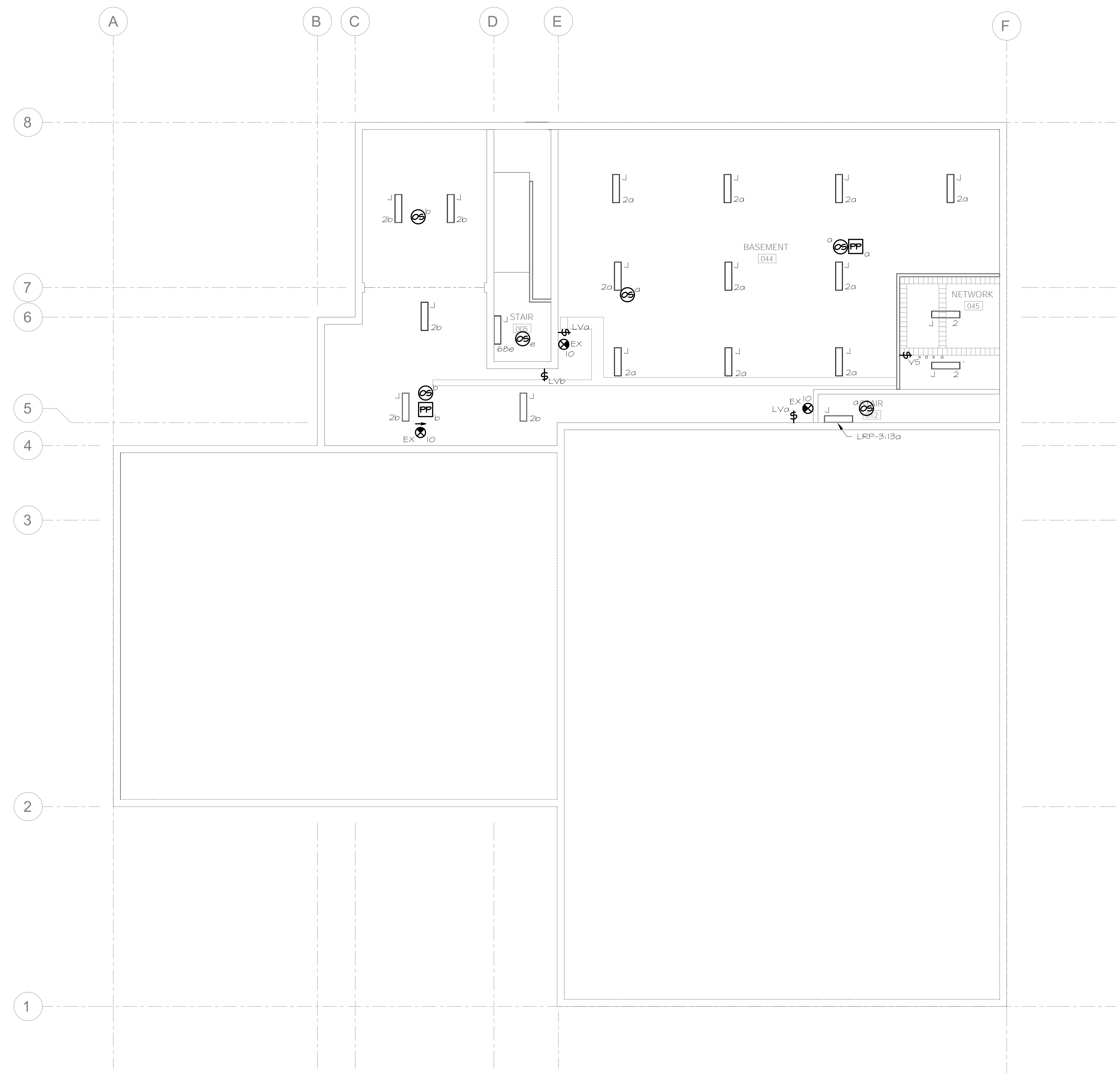
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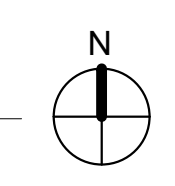
ELECTRICAL BASEMENT LIGHTING PLAN
 E2.0



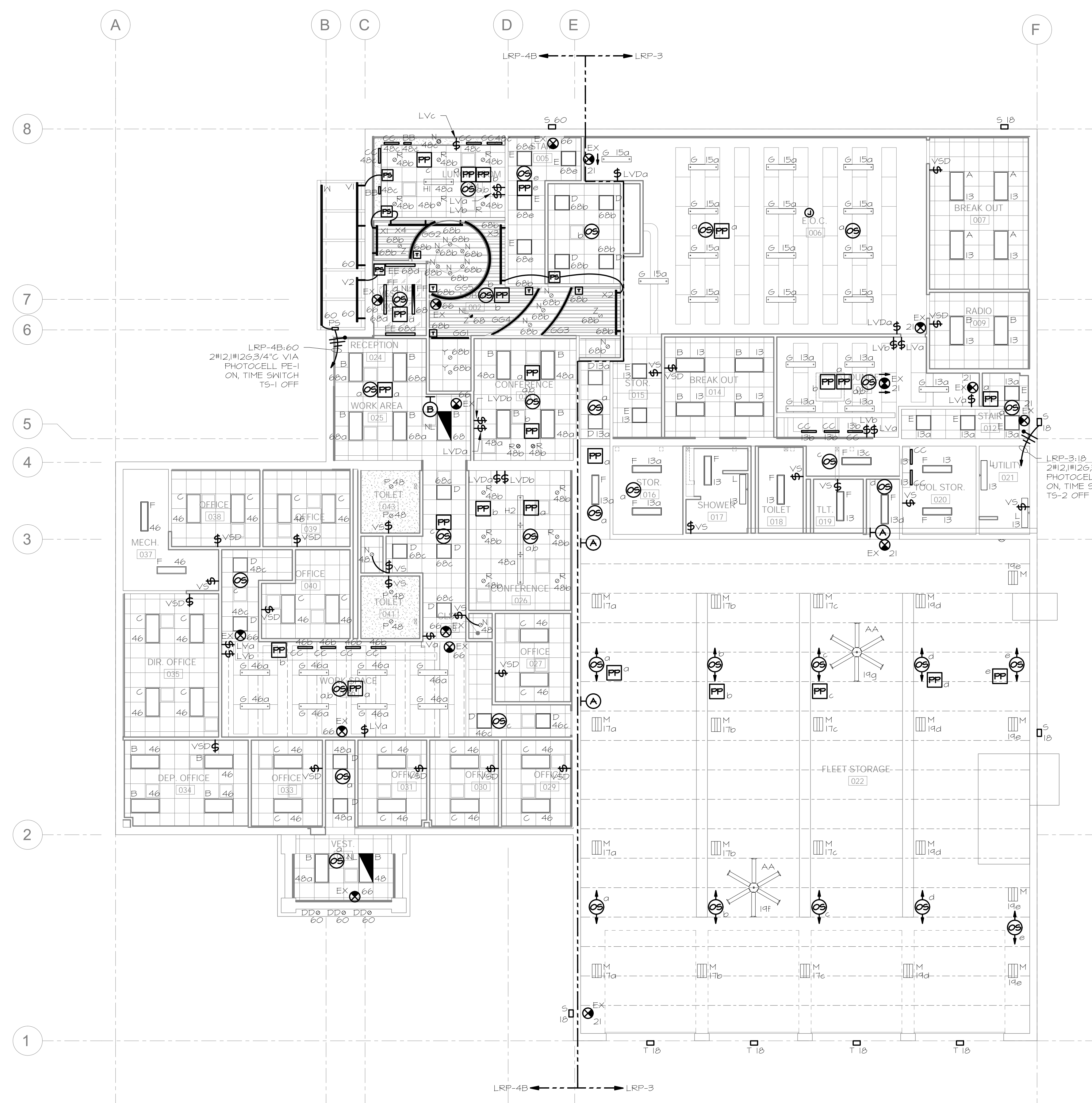
DRAWINGS NOTES
 1. ELECTRICAL CONTRACTOR TO REFER TO ARCHITECTURAL REFLECTED CEILING PLAN FOR LIGHT FIXTURE LOCATIONS AND HEIGHTS.

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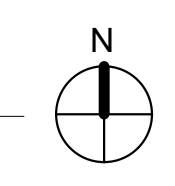
1 ELECTRICAL BASEMENT LIGHTING PLAN
 SCALE 1/8" = 1'-0"



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1 ELECTRICAL FIRST FLOOR LIGHTING PLAN
SCALE 1/8" = 1'-0"



SWITCHBANK DETAIL (A)

a	b	c	d	e	F5f	F5g
\$\$\$\$	\$\$\$\$	\$\$\$\$	\$\$\$\$	\$\$\$\$	\$\$\$\$	\$\$\$\$

TAG DESCRIPTION

a LOW VOLTAGE MOMENTARY CONTACT SWITCH
b LOW VOLTAGE MOMENTARY CONTACT SWITCH
c LOW VOLTAGE MOMENTARY CONTACT SWITCH
d LOW VOLTAGE MOMENTARY CONTACT SWITCH
e LOW VOLTAGE MOMENTARY CONTACT SWITCH
F5f REMOTE FAN SWITCH FURNISHED WITH FAN
F5g REMOTE FAN SWITCH FURNISHED WITH FAN

SWITCHBANK DETAIL (B)

a	b	c	d
\$\$\$\$	\$\$\$\$	\$\$\$\$	\$\$\$\$

TAG DESCRIPTION

a LOW VOLTAGE MOMENTARY CONTACT SWITCH
b LOW VOLTAGE MOMENTARY CONTACT SWITCH
c LOW VOLTAGE MOMENTARY CONTACT SWITCH
d LOW VOLTAGE MOMENTARY CONTACT SWITCH

DRAWINGS NOTES

1. ELECTRICAL CONTRACTOR TO REFER TO ARCHITECTURAL REFLECTED CEILING PLAN FOR LIGHT FIXTURE LOCATIONS AND HEIGHTS.



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ELECTRICAL FIRST FLOOR LIGHTING PLAN

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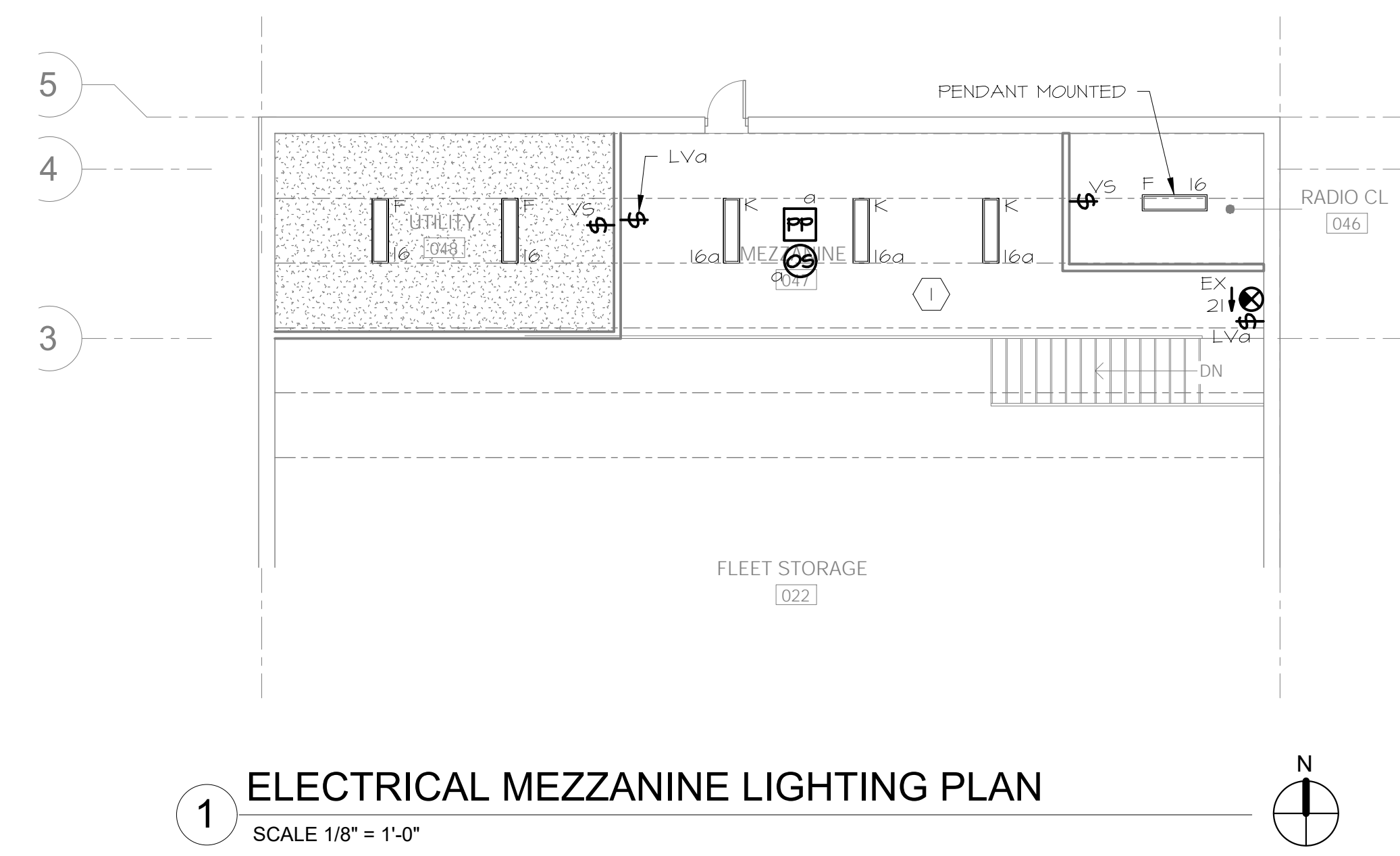
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ELECTRICAL MEZZANINE LIGHTING PLAN
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1 ELECTRICAL MEZZANINE LIGHTING PLAN
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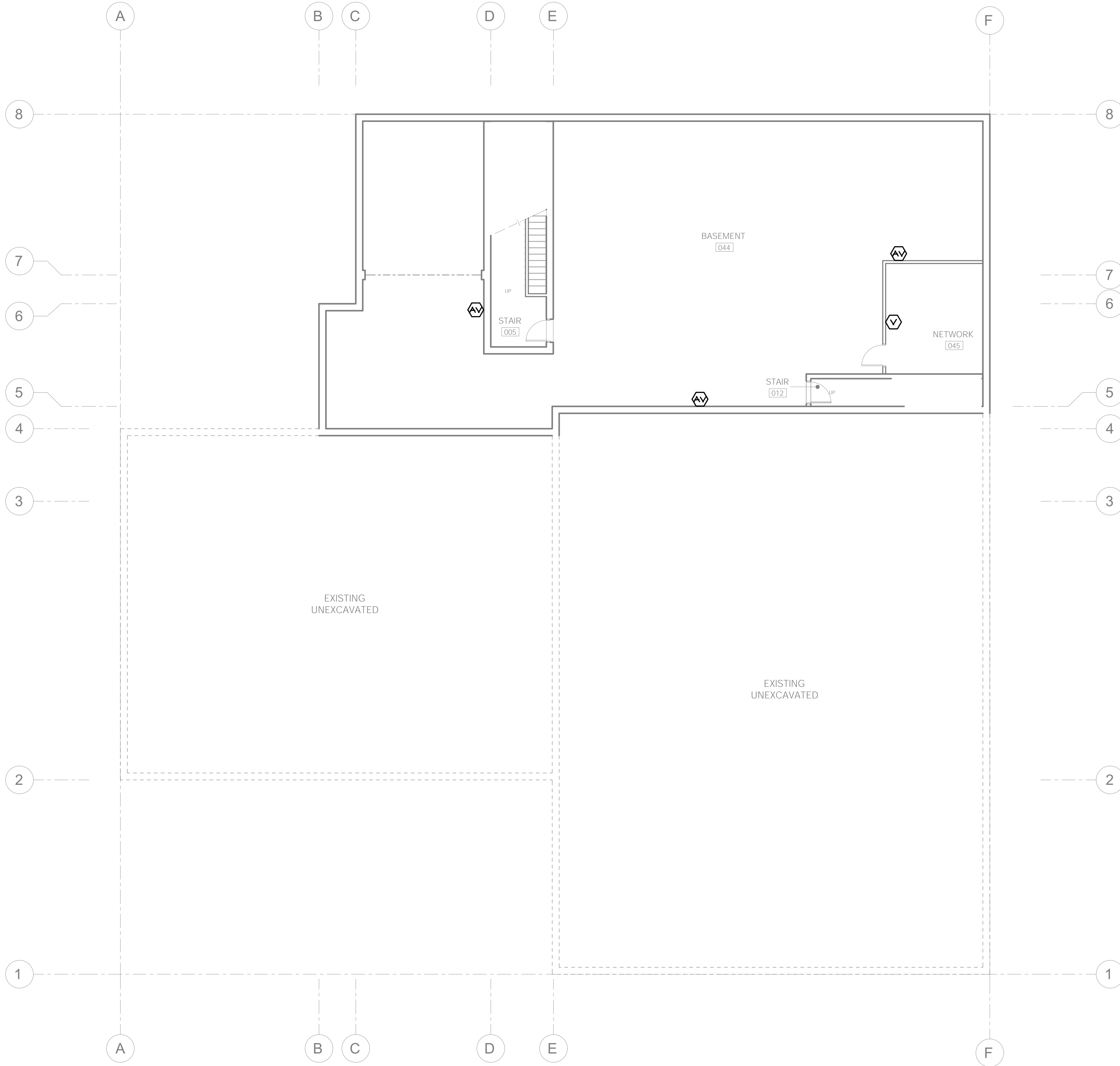
KEYED NOTES
 I. ALL CIRCUITS INDICATED ON MEZZANINE ORIGINATE FROM PANEL LRP-3 UNLESS NOTED OTHERWISE.

DRAWINGS NOTES
 I. ELECTRICAL CONTRACTOR TO REFER TO ARCHITECTURAL REFLECTED CEILING PLAN FOR LIGHT FIXTURE LOCATIONS AND HEIGHTS.

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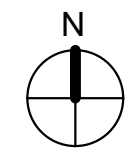


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- ### FIRE ALARM SYMBOLS
- FACP ADDRESSABLE FIRE ALARM CONTROL PANEL WITH REMOTE 24 HOUR TELEPHONE MONITORING
 - FAAP FIRE ALARM ANNIUNCIATOR PANEL
 - S FIRE ALARM SYSTEM DUAL ACTION PULL STATION (48" AFF, MOUNT WITHIN 5 FT. OF DOOR)
 - AV FIRE ALARM SYSTEM HORN & STROBE LIGHT (AUDIO-VISUAL ALARM, +80" AFF, CANDELA RATING BY OTHERS)
 - V VISUAL STROBE LIGHT (+80" AFF, CANDELA RATING BY OTHERS)
 - SD SMOKE DETECTOR, MINIMUM 3FT. FROM SUPPLY VENT
 - D HEAT DETECTOR, 135° DEGREE FIXED TEMP/RATE OF RISE
 - DD HVAC DUCT TYPE SMOKE DETECTOR
 - RTS REMOTE INDICATING LIGHT WITH KEY-OPERATED TEST SWITCH. VERIFY LOCATION OF LIGHT AND KEY SWITCH WITH INSPECTOR.
 - R FAN SHUT DOWN RELAY
 - K KNOX BOX (WEATHER PROOF)
 - NAC NOTIFICATION APPLIANCE CIRCUIT EXPANSION PANEL
 - HB SPRINKLER ALARM BELL
 - WF SPRINKLER ALARM FLOW SWITCH, BY DIVISION 23, WIRED BY E.C.
 - VSG SPRINKLER ALARM TAMPER SWITCH, BY DIVISION 23, WIRED BY E.C.

1 ELECTRICAL BASEMENT FIRE ALARM PLAN
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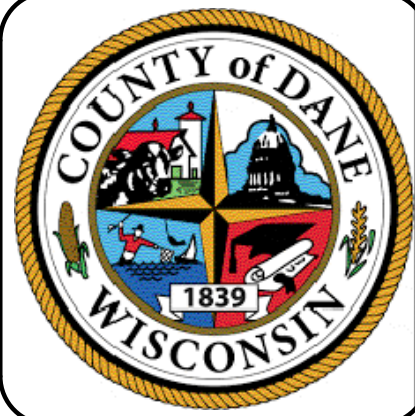
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DANE COUNTY EMERGENCY MANAGEMENT REMODEL
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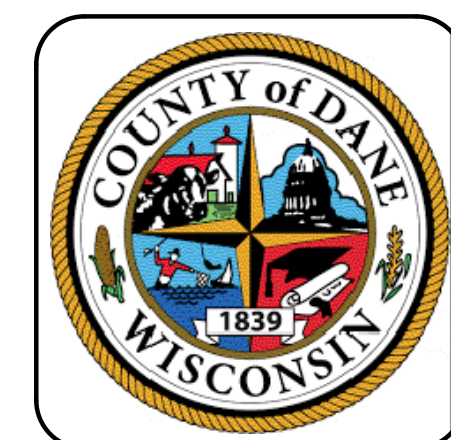
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ELECTRICAL BASEMENT FIRE ALARM PLAN
E3.0

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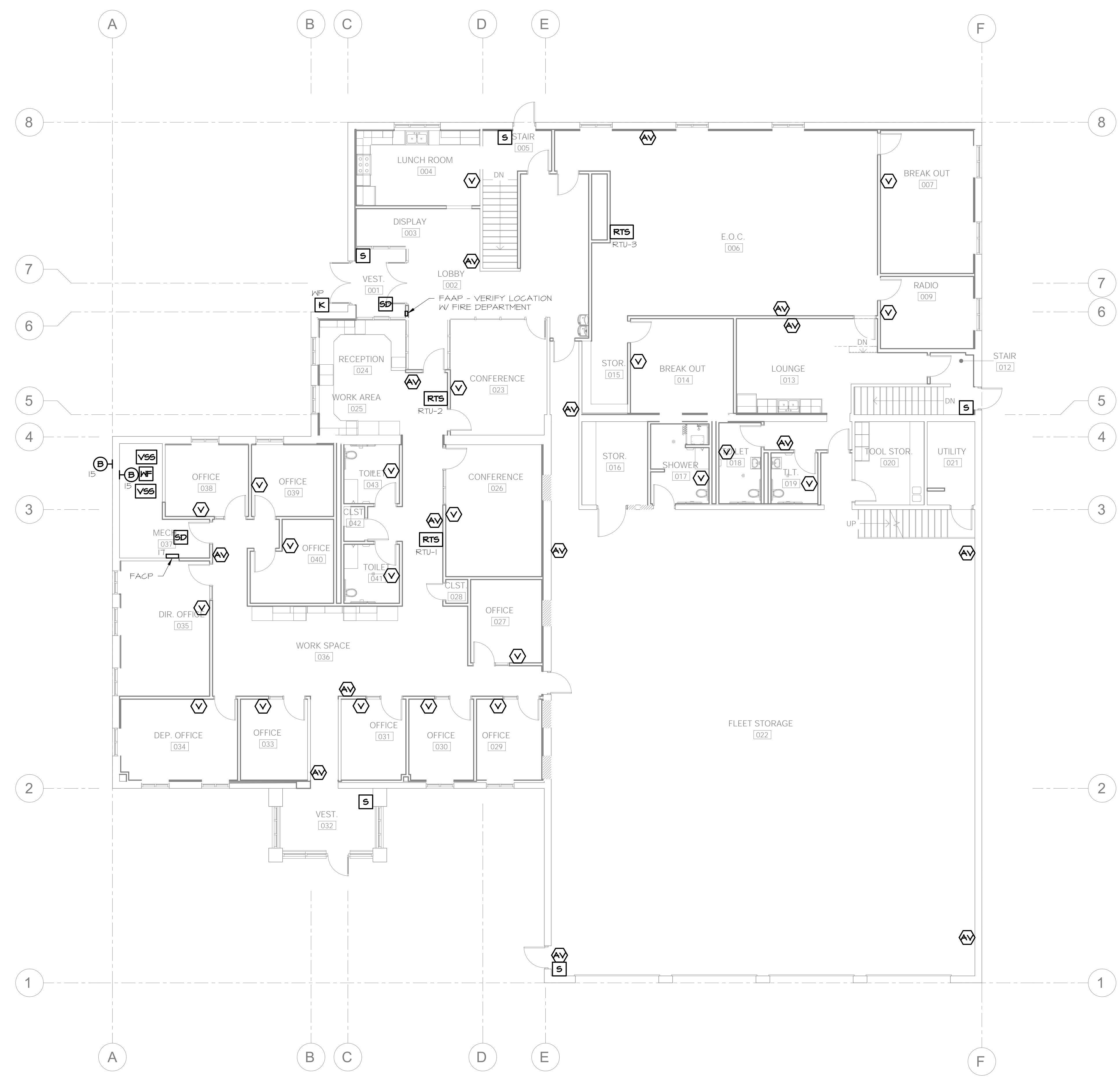
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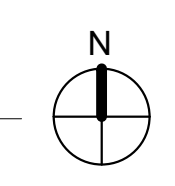
ELECTRICAL FIRST FLOOR FIRE ALARM PLAN
 E3.1

FIRE ALARM SYMBOLS

- ADDRESSABLE FIRE ALARM CONTROL PANEL WITH REMOTE 24 HOUR TELEPHONE MONITORING
- FIRE ALARM ANNUCIATOR PANEL
- FIRE ALARM SYSTEM DUAL ACTION PULL STATION (+48" AFF, MOUNT WITHIN 5 FT. OF DOOR)
- FIRE ALARM SYSTEM HORN & STROBE LIGHT (AUDIO-VISUAL ALARM, +80" AFF, CANDELA RATING BY OTHERS)
- VISUAL STROBE LIGHT (+80" AFF, CANDELA RATING BY OTHERS)
- SMOKE DETECTOR, MINIMUM 3FT. FROM SUPPLY VENT
- HEAT DETECTOR, 135° DEGREE FIXED TEMP/RATE OF RISE
- HVAC DUCT TYPE SMOKE DETECTOR
- REMOTE INDICATING LIGHT WITH KEY-OPERATED TEST SWITCH, VERIFY LOCATION OF LIGHT AND KEY SWITCH WITH INSPECTOR.
- FAN SHUT DOWN RELAY
- KNOX BOX (WEATHER PROOF)
- NOTIFICATION APPLIANCE CIRCUIT EXPANSION PANEL
- SPRINKLER ALARM BELL
- SPRINKLER ALARM FLOW SWITCH, BY DIVISION 23, WIRED BY E.C.
- SPRINKLER ALARM TAMPER SWITCH, BY DIVISION 23, WIRED BY E.C.



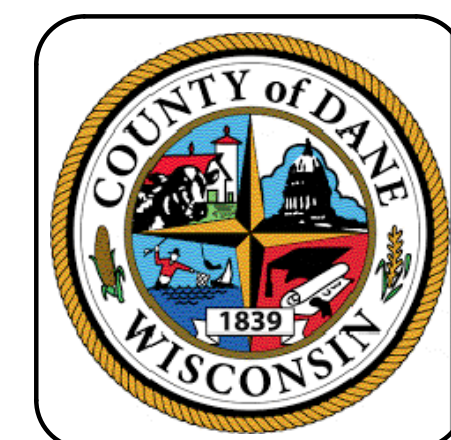
1 ELECTRICAL FIRST FLOOR FIRE ALARM PLAN
 SCALE 1/8" = 1'-0"



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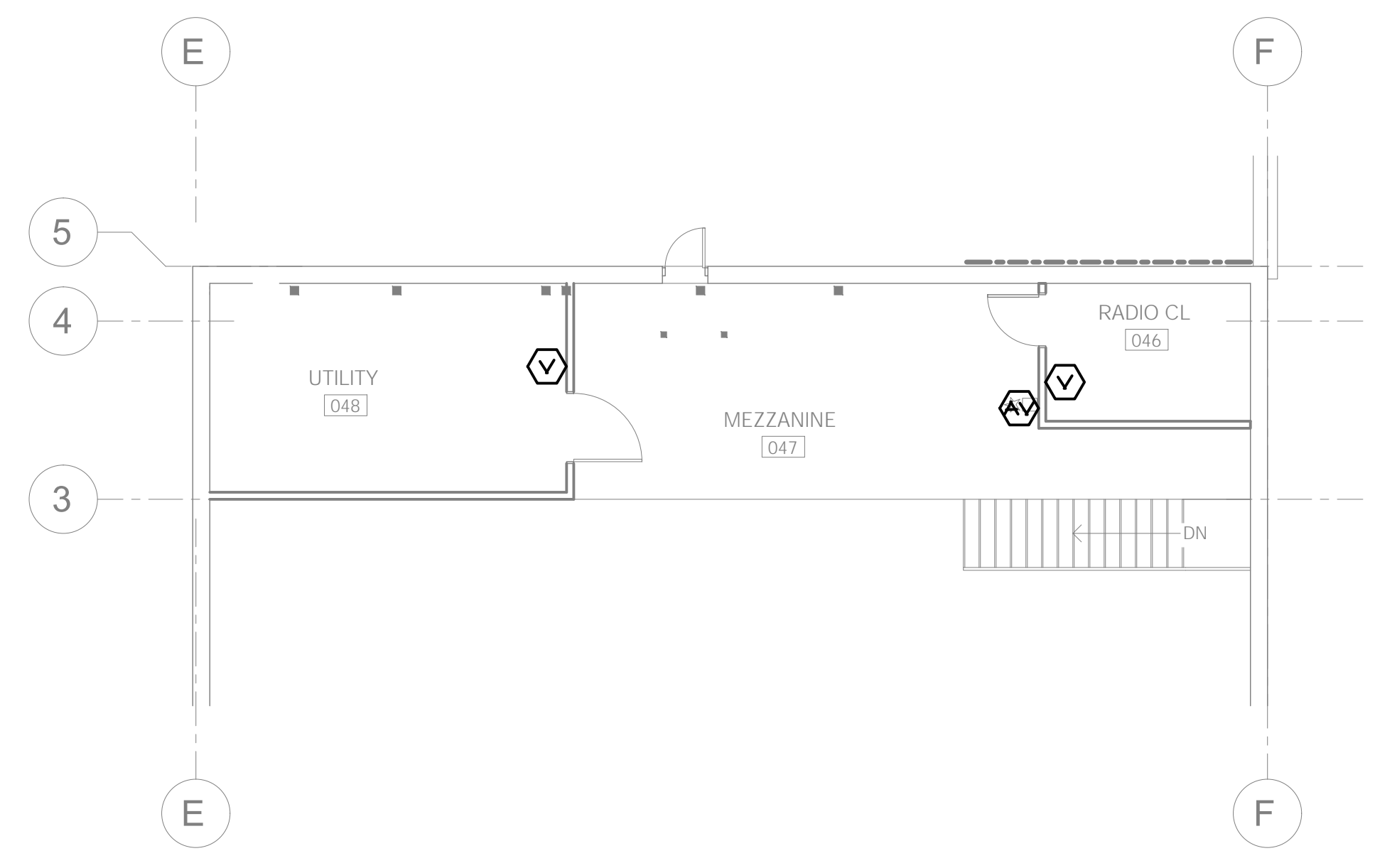
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ELECTRICAL MEZZANINE FIRE ALARM PLAN
 E3.2

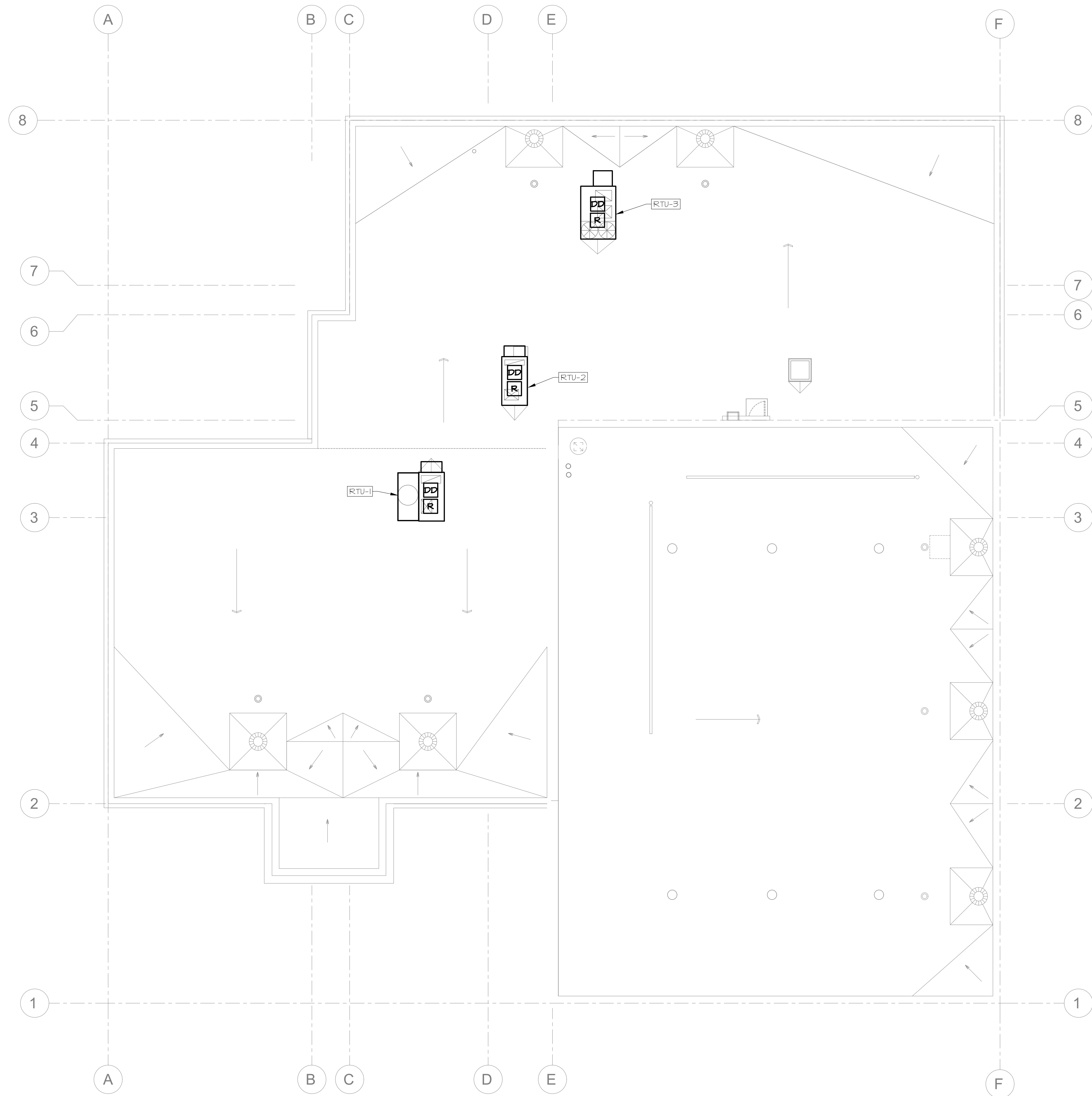


- FIRE ALARM SYMBOLS**
- [FACP] ADDRESSABLE FIRE ALARM CONTROL PANEL WITH REMOTE 24 HOUR TELEPHONE MONITORING
 - [FAAP] FIRE ALARM ANNUNCIATOR PANEL
 - [S] FIRE ALARM SYSTEM DUAL ACTION PULL STATION (+48" AFF, MOUNT WITHIN 5 FT. OF DOOR)
 - [AV] FIRE ALARM SYSTEM HORN & STROBE LIGHT (AUDIO-VISUAL ALARM, +80" AFF, CANDELA RATING BY OTHERS)
 - [V] VISUAL STROBE LIGHT (+80" AFF, CANDELA RATING BY OTHERS)
 - [SD] SMOKE DETECTOR, MINIMUM 3FT. FROM SUPPLY VENT
 - [D] HEAT DETECTOR, 135° DEGREE FIXED TEMP/RATE OF RISE
 - [DD] HVAC DUCT TYPE SMOKE DETECTOR
 - [RTS] REMOTE INDICATING LIGHT WITH KEY-OPERATED TEST SWITCH, VERIFY LOCATION OF LIGHT AND KEY SWITCH WITH INSPECTOR.
 - [R] FAN SHUT DOWN RELAY
 - [K] KNOX BOX (WEATHER PROOF)
 - [NAC] NOTIFICATION APPLIANCE CIRCUIT EXPANSION PANEL
 - [H-B] SPRINKLER ALARM BELL
 - [WFS] SPRINKLER ALARM FLOW SWITCH, BY DIVISION 23, WIRED BY E.C.
 - [VSS] SPRINKLER ALARM TAMPER SWITCH, BY DIVISION 23, WIRED BY E.C.

1 ELECTRICAL MEZZANINE FIRE ALARM PLAN
 SCALE 1/8" = 1'-0"

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1 ELECTRICAL ROOF FIRE ALARM PLAN
SCALE 1/8" = 1'-0"

- FIRE ALARM SYMBOLS**
- FAcP ADDRESSABLE FIRE ALARM CONTROL PANEL WITH REMOTE 24 HOUR TELEPHONE MONITORING
 - FAAP FIRE ALARM ANNUCIATOR PANEL
 - S FIRE ALARM SYSTEM DUAL ACTION PULL STATION (+48" AFF, MOUNT WITHIN 5 FT. OF DOOR)
 - AV FIRE ALARM SYSTEM HORN & STROBE LIGHT (AUDIO-VISUAL ALARM, +80" AFF, CANDELA RATING BY OTHERS)
 - V VISUAL STROBE LIGHT (+80" AFF, CANDELA RATING BY OTHERS)
 - SD SMOKE DETECTOR, MINIMUM 3FT. FROM SUPPLY VENT
 - P HEAT DETECTOR, 135° DEGREE FIXED TEMP/RATE OF RISE
 - DD HVAC DUCT TYPE SMOKE DETECTOR
 - RTS REMOTE INDICATING LIGHT WITH KEY-OPERATED TEST SWITCH. VERIFY LOCATION OF LIGHT AND KEY SWITCH WITH INSPECTOR.
 - R FAN SHUT DOWN RELAY
 - K KNOX BOX (WEATHER PROOF)
 - NAC NOTIFICATION APPLIANCE CIRCUIT EXPANSION PANEL
 - B SPRINKLER ALARM BELL
 - WF SPRINKLER ALARM FLOW SWITCH, BY DIVISION 23, WIRED BY E.C.
 - VSS SPRINKLER ALARM TAMPER SWITCH, BY DIVISION 23, WIRED BY E.C.

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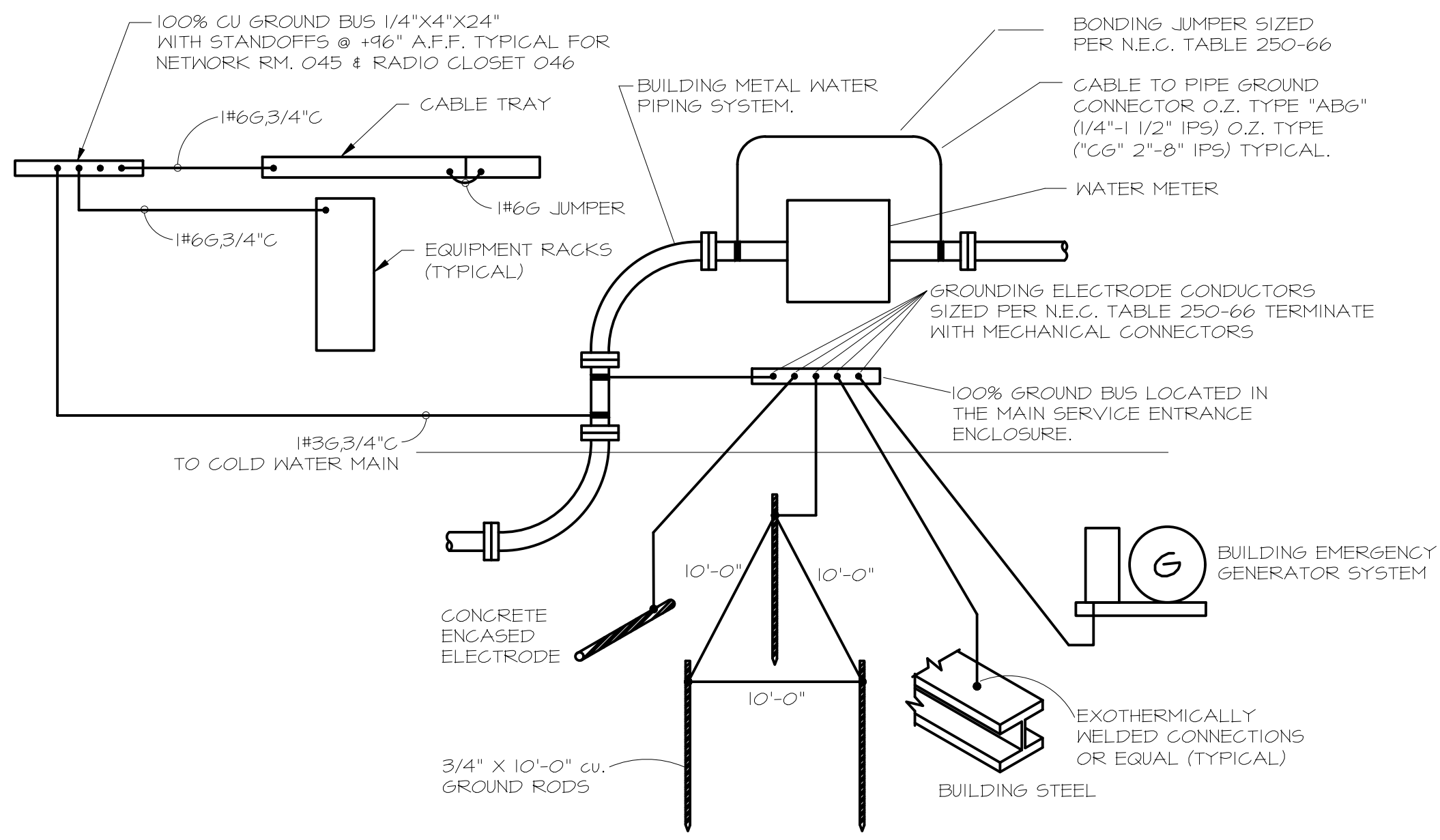
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ELECTRICAL ROOF FIRE ALARM PLAN
E3.3



DETAIL - GROUNDING ELECTRODE SYSTEM
NO SCALE

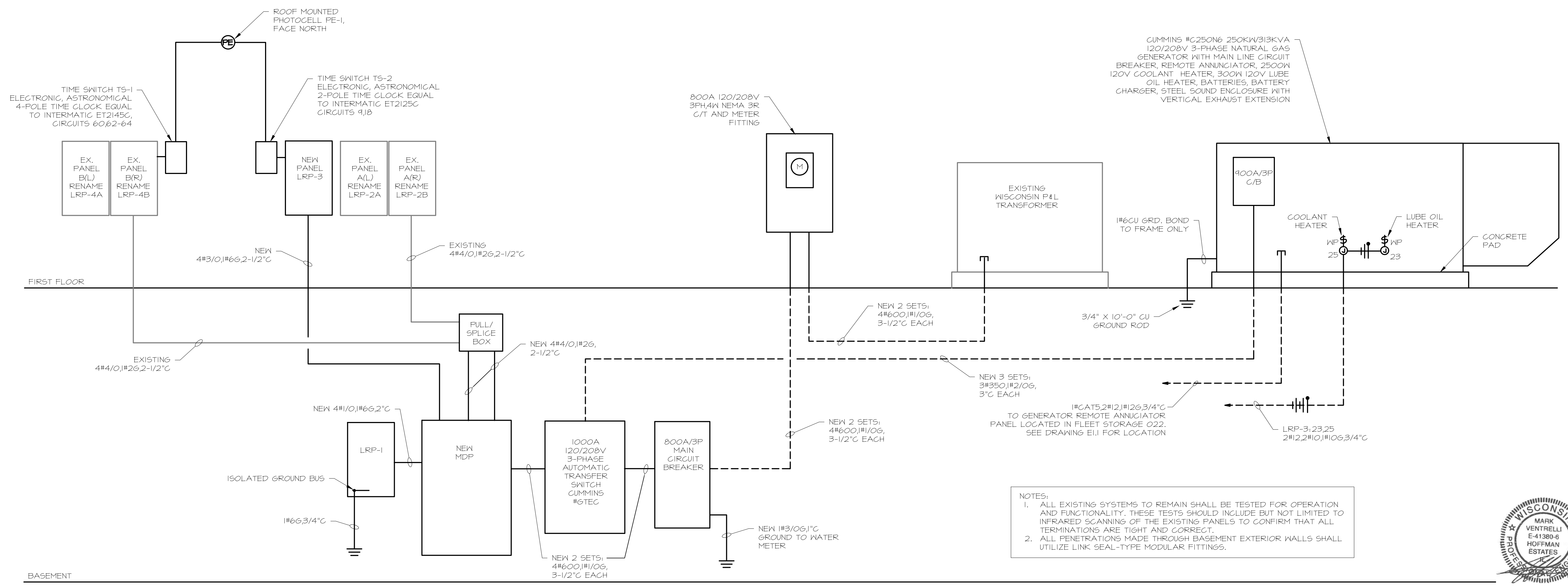
NOTE: THIS DETAIL IS NOT A SUBSTITUTE FOR AN UNDERSTANDING OF THE GROUNDING AND BONDING REQUIREMENTS OF THE NATIONAL ELECTRICAL CODE (NEC) AND THE REQUIREMENTS OF THE JURISDICTION HAVING AUTHORITY IN THE AREA THE WORK IS TAKING PLACE. ELECTRICAL CONTRACTOR SHALL NOTE THAT SOME COMPONENTS OF THE EXISTING BUILDING GROUNDING SYSTEM MAY BE REUSABLE; CONCRETE ENCASED ELECTRODE & BUILDING STEEL, CONFIRM WITH LOCAL JHA.

ELECTRICAL DEMAND CALCULATION	
GENERAL LIGHTING LOAD: 9330VA @ 125% =	11,663VA
GENERAL RECEPTACLE LOAD: 146710VA	
REMAINDER @ 50% =	10,000VA
ELECTRIC HEAT LOAD: 5990VA @ 0% =	0VA
HVAC: COOLING LOAD @ 100% =	94,402VA
GENERAL PUMP/MOTOR LOAD @ 100% =	8,648VA
OVERHEAD DOORS: 3456VA @ 50% =	1,728VA
HAND DRYERS: 7250VA @ 10% =	5,075VA
MISCELLANEOUS LOAD @ 100% =	6,600VA
TOTAL CONDUCTOR LOAD =	206,501VA
TOTAL CONDUCTOR AMPS =	573.6 AMPS

PANEL		NEW PANEL MDP		VOLTS		120/208		PHASE		3Ø,4W	
AMPS		800		MAIN		MLO		A.I.C.		65,000	
LOCATION				MOUNTING		SURFACE					
CIRCUIT	POLE	TRIP	DESCRIPTION	A Ø (VA)	B Ø (VA)	C Ø (VA)	DESCRIPTION	TRIP	POLE	CIRCUIT	
1			RTU-2	3600	5400		RTU-1				
3	3	45	5Ø1Ø1#1Ø6,3/4\"C		3600	5400	5Ø8#1Ø6,3/4\"C	60	3	4	
5										6	
7			SPACE							8	
9	3						5Ø6#1Ø6,1\"C	60	3	10	
11										12	
13			EX. MAKE-UP-AIR UNIT XMJA-1	3840	30435		RENAMED PANELS LRP-2A,2B			14	
15	3	50	5Ø8#1Ø6,3/4\"C		3840	25158	4#4/Ø1#2Ø6,2-1/2\"C	225	3	16	
17										18	
19			NEW PANEL LRP-1	15007	21832		RENAMED PANELS LRP-4A,4B			20	
21	3	150	4#1Ø1#6Ø6,2\"C		12231	19216	4#4/Ø1#2Ø6,2-1/2\"C	225	3	22	
23										24	
25			NEW PANEL LRP-3	13916			SPACE			26	
27	3	200	4#3/Ø1#6Ø6,2-1/2\"C		12824					28	
29										30	
31			SPACE				SPACE			32	
33	3									34	
35										36	
37			SPACE				SPACE			38	
39	3									40	
41										42	
PHASE TOTAL =				100294	88479	93733	TOTAL VA =		282506		
								TOTAL AMPS =		573.6	

NOTES:

- ALL CIRCUIT BREAKERS SERVING HVAC EQUIPMENT SHALL BE HACR RATED.
- ALL CIRCUIT BREAKERS SERVING EMAL LIGHTING SHALL HAVE LOCK-ON DEVICE.
- ALL CIRCUIT BREAKERS USED FOR SWITCHING OF LIGHTS SHALL BE SWITCH DUTY RATED.
- ALL SINGLE POLE CIRCUIT BREAKERS USED FOR MULTITIRE BRANCH CIRCUITS SHARING A NEUTRAL SHALL BE PROVIDED WITH AN IDENTIFIED HANDLE TIE TO SIMULTANEOUSLY DISCONNECT ALL UNGROUNDED CONDUCTORS. (NEC 210.4(B))



- NOTES:
- ALL EXISTING SYSTEMS TO REMAIN SHALL BE TESTED FOR OPERATION AND FUNCTIONALITY. THESE TESTS SHOULD INCLUDE BUT NOT LIMITED TO INFRARED SCANNING OF THE EXISTING PANELS TO CONFIRM THAT ALL TERMINATIONS ARE TIGHT AND CORRECT.
 - ALL PENETRATIONS MADE THROUGH BASEMENT EXTERIOR WALLS SHALL UTILIZE LINK SEAL-TYPE MODULAR FITTINGS.



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ELEC. RISER DIAGRAM & PANEL SCHEDULES
E4.0

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LIGHTING FIXTURE SCHEDULE											
TYPE	DESCRIPTION & FEATURES	LAMPS	MOUNTING	VOLT	SPECIFIED MANUFACTURER AND CATALOG NUMBER	TYPE	DESCRIPTION & FEATURES	LAMPS	MOUNTING	VOLT	SPECIFIED MANUFACTURER AND CATALOG NUMBER
		QUANTITY/TYPE	CLG./POLE-TYPE					QUANTITY/TYPE	CLG./POLE-TYPE		
A	2'X4' LED LOW PROFILE VOLUMETRIC LAY-IN	23W LED	RECESSED	120	LITHONIA #2BLT4-30L-AD9M-MVOLT-6ZIO-LP835	W	1/8" WET LISTED ANGLED EXTRUSION WITH LED TAPE LIGHT & LENS	112W LED	SURFACE	120	LLI #LLI-ANG-SF-T5.9W-65-42K-24V-22BN-T2INSLEF W/ #LLI-PS-DEC-200W-24V-KO POWER SUPPLY
B	2'X4' LED LOW PROFILE VOLUMETRIC LAY-IN	31W LED	RECESSED	120	LITHONIA #2BLT4-40L-AD9M-MVOLT-6ZIO-LP835	X1	48"L ARCHITECTURAL ADJUSTABLE WALL WASHER	17.6W LED	SURFACE	120/24VDC	ALCON #11T03-4M-35K-6-5-010-96W-WH
C	2'X4' LED LOW PROFILE VOLUMETRIC LAY-IN	38W LED	RECESSED	120	LITHONIA #2BLT4-48L-AD9M-MVOLT-6ZIO-LP835	X2	12"L ARCHITECTURAL ADJUSTABLE WALL WASHER	26.4W LED	SURFACE	120/24VDC	ALCON #11T03-6M-35K-6-5-010-96W-WH
D	2'X2' LED LOW PROFILE VOLUMETRIC LAY-IN	30W LED	RECESSED	120	LITHONIA #2BLT2-33L-ADSM-MVOLT-6ZIO-LP835	X3	48"L ARCHITECTURAL ADJUSTABLE WALL WASHER	35.2W LED	SURFACE	120/24VDC	ALCON #11T03-8M-35K-6-5-WH
E	2'X2' LED FLAT PANEL	31W LED	RECESSED	120	LITHONIA #EPANL-2X2-3400LM-80CRI-35K-MINIO-ZT-MVOLT	X4	120"L ARCHITECTURAL ADJUSTABLE WALL WASHER	44W LED	SURFACE	120/24VDC	ALCON #11T03-10M-35K-6-5-WH
F	4'-0" LED LOW PROFILE WRAPAROUND	35W LED	SURFACE/PENDANT	120	LITHONIA #BLWP4-40L-ADSM-MVOLT-6ZIO-LP835	Y	6" DIA. LED CYLINDER	9.6W LED	SURFACE	120	GOTHAM #EVO65C-35/10-AR-MD-L55-MVOLT-6ZIO-DWHG
G	4'-0" LED INDIRECT/DIRECT PENDANT	41W LED	PENDANT	120	PEERLESS #5PM4-4FT-M5L4-80CRI-35K-ID100LMF-40/60-DARK-ZT-120-5CT-F2/24A-C032-DU	Z	6" DIA. LED CYLINDER	14.7W LED	SURFACE	120	GOTHAM #EVO65C-35/15-AR-MD-L55-MVOLT-6ZIO-DWHG
H1	4'-0" LED INDIRECT/DIRECT PENDANT	34W LED	PENDANT	120	PEERLESS #OPM4-L5L-4FT-M5L4-80CRI-35K-1610LMF-510LMF-DARK-ZT-120-5CT-F1/12F-C041-5CN-DU-SEP	AA	60" DIA. REVERSIBLE COMMERCIAL GRADE CEILING FAN W WIRE GUARD	-	PENDANT	120	HUNTER "TRAK" 60", BLACK, 120V WITH WALL CONTROL, LED BLANK & MARLEY 2800 WIRE GUARD
H2	8'-0" LED INDIRECT/DIRECT PENDANT	69W LED	PENDANT	120	PEERLESS #OPM4-L5L-8FT-M5L8-80CRI-35K-1610LMF-510LMF-DARK-ZT-120-5CT-F1/12F-C041-5CN-DU-SEP	BB	12"L LED UNDERCABINET LIGHT	5.8W LED	SURFACE	120	LITHONIA #UCEL-12IN-30K-90CRI-WH
J	4'-0" LED STRIP	41W LED	SURFACE	120	LITHONIA #ZLID-L48-5000LM-F5T-MVOLT-35K-80CRI-WH	CC	24"L LED UNDERCABINET LIGHT	10.2W LED	SURFACE	120	LITHONIA #UCEL-24IN-30K-90CRI-WH
K	4'-0" LED STRIP	59W LED	SURFACE/PENDANT	120	LITHONIA #ZLID-L48-1000LM-F5T-MVOLT-35K-80CRI-WH	DD	6" DIA. LED DOWNLIGHT	19.7W LED	RECESSED	120	GOTHAM #EVO6-40/20-AR-MD-L55-MVOLT-6ZIO-TRK
L	4'-0" LED LOW PROFILE WRAPAROUND	25W LED	SURFACE/WALL	120	LITHONIA #BLWP4-30L-AD9M-MVOLT-6ZIO-LP835	EE	4'-0" LED LINEAR WALL MOUNT	20W LED	SURFACE WALL	120	LITHONIA #CLX-L48-3000LM-SEF-FDL-MVOLT-6ZIO-35K-80CRI-WH
M	2'-0" LED HIGH BAY W/ LENS	83W LED	SURFACE/PENDANT	120	LITHONIA #IBE-L24-12000LM-ATG-MD-MVOLT-6ZIO-40K-80CRI-DWH	FF	4'-0" LED LINEAR SURFACE MOUNT	20W LED	SURFACE CEILING	120	LITHONIA #CLX-L48-3000LM-SEF-INDL-MVOLT-6ZIO-35K-80CRI-WH
N	6" DIA. LED DOWNLIGHT	9.6W LED	RECESSED	120	GOTHAM #EVO6-35/10-AR-MD-L55-MVOLT-6ZIO-TRW	GG1	5'-0"L, 13T LM/FT, 3500K FLEXIBLE BORDER TUBE	3.4 WFT LED	SURFACE	120/24V	BARRON #WAVE-WP-5-24V W/ WAVE-EC-F, WAVE-MC
P	6" DIA. LED DOWNLIGHT	14.7W LED	RECESSED	120	GOTHAM #EVO6-35/15-AR-MD-L55-MVOLT-6ZIO-TRW	GG2	6'-6"L, 13T LM/FT, 3500K FLEXIBLE BORDER TUBE	3.4 WFT LED	SURFACE	120/24V	BARRON #WAVE-WP-6'-6"-24V W/ WAVE-EC-F, WAVE-MC
R	6" DIA. LED DOWNLIGHT	19.7W LED	RECESSED	120	GOTHAM #EVO6-35/20-AR-MD-L55-MVOLT-6ZIO-TRW	GG3	7'-6"L, 13T LM/FT, 3500K FLEXIBLE BORDER TUBE	3.4 WFT LED	SURFACE	120/24V	BARRON #WAVE-WP-7'-6"-24V W/ WAVE-EC-F, WAVE-MC
S	ARCHITECTURAL WALL SCONCE	20W LED	SURFACE	120	LITHONIA #NSQ-LED-PI-SR2-40K-MVOLT-DBLXD	GG4	9'-0"L, 13T LM/FT, 3500K FLEXIBLE BORDER TUBE	3.4 WFT LED	SURFACE	120/24V	BARRON #WAVE-WP-9-24V W/ WAVE-EC-F, WAVE-MC
T	ARCHITECTURAL WALL SCONCE	20W LED	SURFACE	120	LITHONIA #NSQ-LED-PI-SR4-40K-MVOLT-DBLXD	GG5	11'-0"L, 13T LM/FT, 3500K FLEXIBLE BORDER TUBE	3.4 WFT LED	SURFACE	120/24V	BARRON #WAVE-WP-11-24V W/ WAVE-EC-F, WAVE-MC
V1	140"L ARCHITECTURAL ADJUSTABLE WALL WASHER, WET LISTED	115W LED	SURFACE	120/24VDC	ALCON #11T04-140-40K-12-BZ-C-ND W/ REMOTE POWER SUPPLY	EX	LED EXIT SIGN	LED	HIGH WALL	120	LITHONIA #LQM-S-W-3-R-120/27T
V2	12"L ARCHITECTURAL ADJUSTABLE WALL WASHER, WET LISTED	60W LED	SURFACE	120/24VDC	ALCON #11T04-12-40K-12-BZ-C-ND W/ REMOTE POWER SUPPLY						

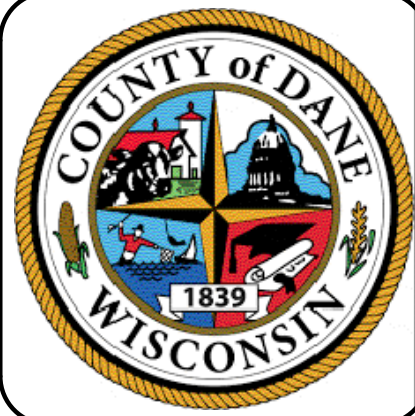
NOTES:

- VERIFY TYPE OF CEILING OR WALL FOR ALL RECESSED LIGHTING FIXTURES PRIOR TO ORDERING.
- PROVIDE ALL ADDITIONAL HARDWARE FOR FIXTURE MOUNTING AS REQUIRED AT NO EXTRA COST.
- MINIMUM LENS THICKNESS TO BE .125 INCHES, WHERE LENSES ARE USED.
- THE FIXTURE SCHEDULE DOES NOT NECESSARILY LIST ALL ACCESSORIES AND HARDWARE NECESSARY FOR THE COMPLETION OF INSTALLATION, NOR DOES IT DETAIL THE CEILING CONSTRUCTION TO BE ENCOUNTERED. IT IS THE CONTRACTOR'S RESPONSIBILITY TO PROPERLY DETERMINE AND PROVIDE CORRECT COMPONENTS, ACCESSORIES, AND HARDWARE AS REQUIRED FOR THE INSTALLATION.
- CONTRACTOR SHALL COORDINATE WITH ARCHITECTURAL DRAWINGS AND CEILING CONTRACTOR FOR EXACT LIGHTING FIXTURE LOCATION.

NOT FOR CONSTRUCTION



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HVAC REDESIGN	04/30/21
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ELECTRICAL SYMBOLS, SCHEDULES & DETAILS
E4.2

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 Engineering with Precision, Pace & Passion.
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FIRE ALARM SYMBOLS

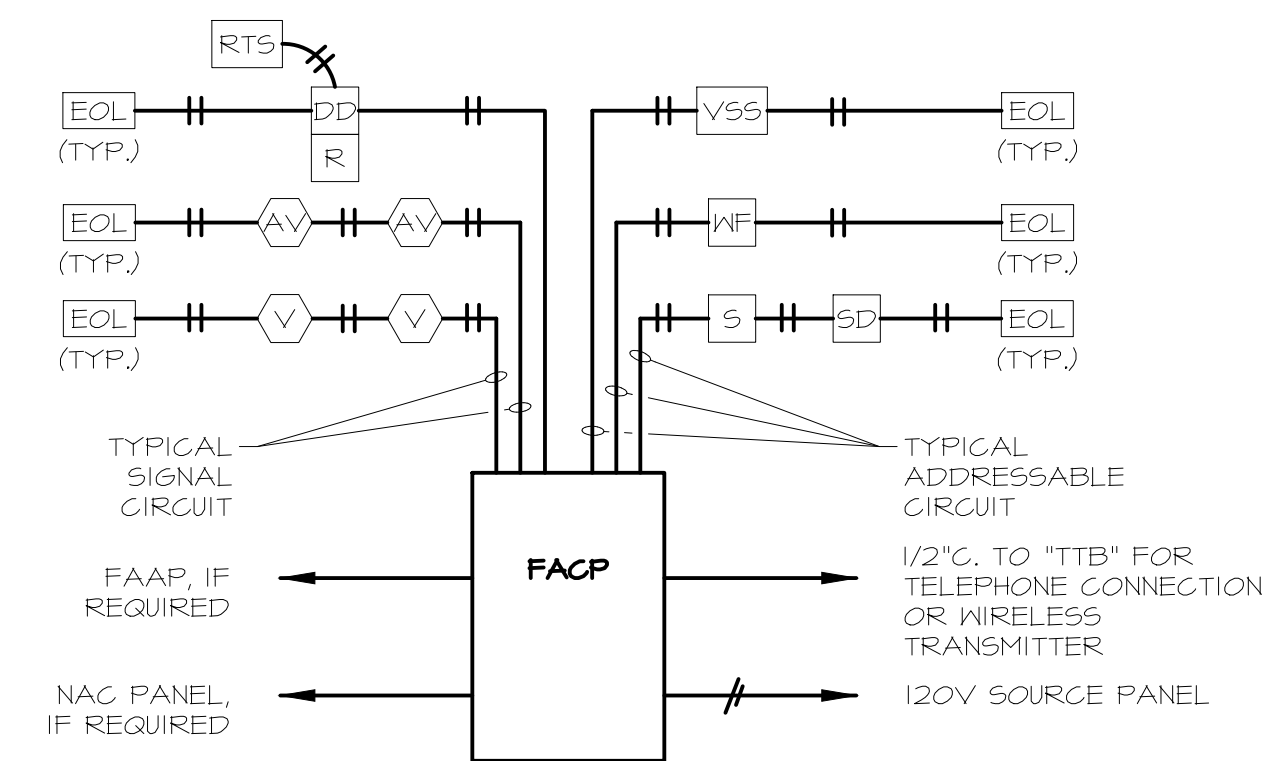
FACP	ADDRESSABLE FIRE ALARM CONTROL PANEL WITH REMOTE 24 HOUR TELEPHONE MONITORING
FAAP	FIRE ALARM ANNUNCIATOR PANEL
S	FIRE ALARM SYSTEM DIAL ACTION PULL STATION (+48" AFF, MOUNT WITHIN 5 FT. OF DOOR)
AV	FIRE ALARM SYSTEM HORN & STROBE LIGHT (AUDIO-VISUAL ALARM, +80" AFF, CANDELA RATING BY OTHERS)
V	VISUAL STROBE LIGHT (+80" AFF, CANDELA RATING BY OTHERS)
SD	SMOKE DETECTOR, MINIMUM 3FT. FROM SUPPLY VENT
D	HEAT DETECTOR, 135° DEGREE FIXED TEMP/RATE OF RISE
DD	HVAC DUCT TYPE SMOKE DETECTOR
RTS	REMOTE INDICATING LIGHT WITH KEY-OPERATED TEST SWITCH, VERIFY LOCATION OF LIGHT AND KEY SWITCH WITH INSPECTOR.
R	FAN SHUT DOWN RELAY
K	KNOX BOX (WEATHER PROOF)
NAC	NOTIFICATION APPLIANCE CIRCUIT EXPANSION PANEL
HB	SPRINKLER ALARM BELL
WF	SPRINKLER ALARM FLOW SWITCH, BY DIVISION 23, WIRED BY E.C.
VSS	SPRINKLER ALARM TAMPER SWITCH, BY DIVISION 23, WIRED BY E.C.

NOTE: FIRE ALARM SYSTEM SHALL BE AN ADDRESSABLE TYPE ZONED PER NFPA CODE, NON-CODED, CONTINUOUS SOUNDING, UL LISTED, WITH SERIES BATTERIES, MINIMUM WIRE TWO CONDUCTOR INSULATED #14 AWG, TWISTED PAIR, PROVIDE BACKBOXES WITH MINIMUM 1/2" CONDUIT STUBBED INTO ACCESSIBLE CEILING SPACE FOR EACH DEVICE, PROVIDE CONDUIT IN NON-ACCESSIBLE CEILING SPACES, FIRE ALARM CABLE SHALL BE ROUTED FREE-AIR UNLESS A FULL CONDUIT SYSTEM IS REQUIRED BY THE LOCAL AUTHORITY HAVING JURISDICTION.

DEVICE LAYOUT IS REPRESENTATIVE ONLY. PROVIDE ACTUAL QUANTITY OF DEVICES PER NFPA 72, NFPA 101, IBC, NEC, IFC, AND PER LOCAL AUTHORITY HAVING JURISDICTION REQUIREMENTS. ELECTRICAL CONTRACTOR SHALL VERIFY EXACT QUANTITY OF FIRE ALARM DEVICES PRIOR TO BIDDING.

ELECTRICAL CONTRACTOR IS RESPONSIBLE FOR THE FIRE ALARM PERMIT AND CONSTRUCTION DOCUMENTS. SUBMIT SHOP DRAWINGS TO ENGINEER AND PERMITTING AUTHORITY FOR REVIEW PRIOR TO INSTALLATION AND RESUBMIT BASED ON COMMENTS, AS REQUIRED. PROVIDE BATTERY AND VOLTAGE DROP CALCULATIONS.

FIRE ALARM DEVICES WIRED TO FACP SHALL BE ADDRESSABLE (DUCT SMOKE DETECTORS, PULL STATIONS, HORNS, VISUALS, FLOW SWITCHES, TAMPER SWITCHES, AND BELLS). VERIFY AND COORDINATE IN FIELD. FACP SHALL BE CONNECTED TO TELEPHONE TERMINAL CABINET OR WIRELESS TRANSMITTER.



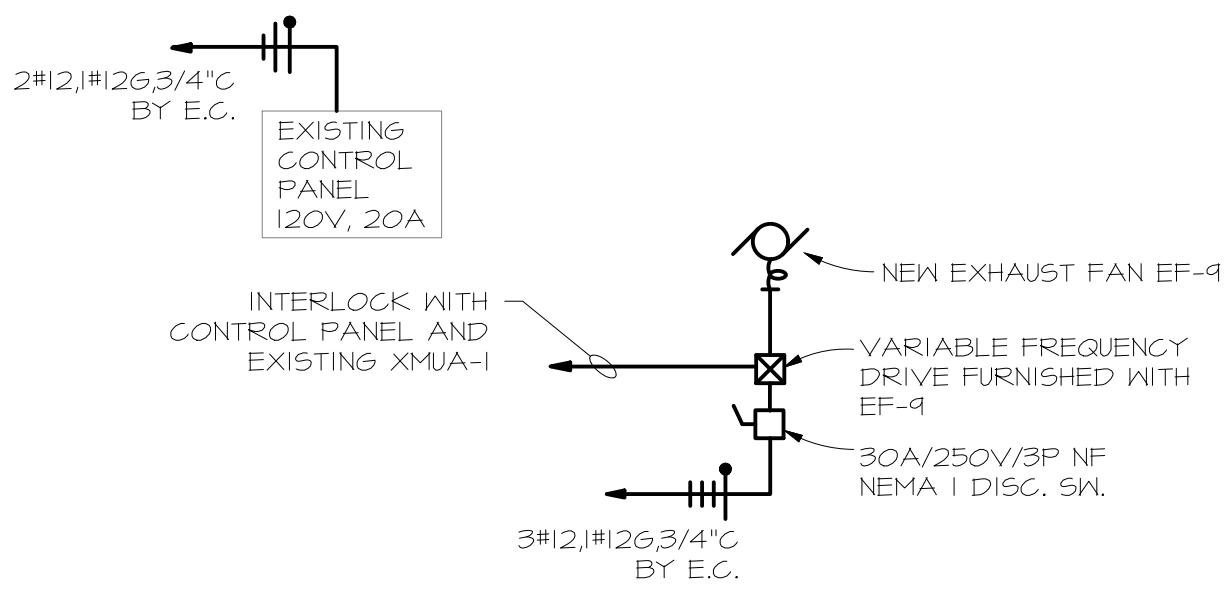
FIRE ALARM RISER DIAGRAM

NOT TO SCALE

ELECTRICAL SYMBOLS

A	LIGHT FIXTURE, CAPITAL LETTER DENOTES FIXTURE TYPE, NUMERAL INDICATES CIRCUIT ASSIGNMENT, AND SUBSCRIPT LETTER DENOTES SWITCH LEG. SHADING OF ANY FIXTURE, AS SHOWN, INDICATES FIXTURE SHALL BE CIRCUITED TO EMERGENCY / UNSWITCHED NIGHT LIGHT CIRCUIT. SEE "LIGHTING FIXTURE SCHEDULE" FOR ADDITIONAL INFORMATION.	CR	CORD REEL TYPE "A", 20A, 125V W/ 45'-0" 12/3 CORD & CONNECTOR, HUBBELL #HBL145123C20Y
B	EXIT SIGN UNIVERSAL MOUNT SHADED AREA INDICATES FACE, ARROWS AS REQUIRED. SEE "LIGHTING FIXTURE SCHEDULE."	CR	CORD REEL TYPE "B", 10A, 125V W/ 45'-0" 16/3 CORD & LED LAMP, HUBBELL #HBL145163LEDY
⊕	SINGLE POLE TOGGLE SWITCH, 48" AFF, SUBSCRIPT LETTER DENOTES SWITCH LEG, 20 AMP, 120 VOLT	LP	LIGHTING AND/OR POWER PANEL
T	MANUAL SINGLE PHASE MOTOR STARTER WITH THERMAL OVERLOAD PROTECTION, 48" AFF UNLESS INDICATED OTHERWISE	DP	DISTRIBUTION PANEL
FS	FAN SPEED SWITCH, 48" AFF	M	MOTOR
V	WALL MOUNTED VACANCY SENSOR SWITCH "MANUAL ON / AUTO OFF" 48" AFF	PE	PHOTO ELECTRIC CONTROL, ROOF MOUNTED, 120V OPERATION, 20A RATED
VSD	WALL MOUNTED VACANCY SENSOR DIMMER SWITCH "MANUAL ON / DIM / AUTO OFF" 48" AFF	CR	CONDUIT ROUTED CONCEALED IN CEILING OR WALL CONSTRUCTION. (CROSS LINES DENOTE NUMBER OF WIRES.)
OS	WALL MOUNTED OCCUPANCY SENSOR SWITCH "AUTO ON / AUTO OFF" 48" AFF	CR	CONDUIT ROUTED EXPOSED, PARALLEL OR PERPENDICULAR TO WALLS.
LV	LOW VOLTAGE MOMENTARY CONTACT SWITCH, 48" AFF	CR	CONDUIT ROUTED CONCEALED IN CONCRETE FLOOR SLAB OR UNDERGROUND.
LVD	LOW VOLTAGE MOMENTARY CONTACT DIMMER SWITCH, 48" AFF	J	AUXILIARY JUNCTION BOX
P	SWITCH FURNISHED WITH PILOT LIGHT.	CR	FLEXIBLE CONDUIT CONNECTION
□	NON-FUSED DISCONNECT SWITCH (NFD5) RATED AS INDICATED	CR	HOME RUN TO PANELBOARD
F	FUSED DISCONNECT SWITCH (FDS) WITH SWITCH AND FUSE RATED AS INDICATED.	TR	TELEPHONE OUTLET, WITH 3/4" CONDUIT STUB ABOVE ACCESSIBLE CEILING. SEE LOW VOLTAGE DRAWINGS.
⊗	3-PHASE COMBINATION MAGNETIC STARTER WITH NEMA SIZE INDICATED BY E.C.	TR	DATA SYSTEM OUTLET WITH 3/4" CONDUIT STUB ABOVE ACCESSIBLE CEILING. SEE LOW VOLTAGE DRAWINGS.
⊕	DUPLEX RECEPTACLE, NEMA 5-20R, 15" AFF.	TR	DATA AND TELEPHONE OUTLET, WITH 3/4" CONDUIT STUB ABOVE ACCESSIBLE CEILING. SEE LOW VOLTAGE DRAWINGS.
⊕	ISOLATED GROUND RECEPTACLE, NEMA 5-20R, 15" AFF	TV	TV OUTLET @ +60" AFF, WITH 3/4" CONDUIT STUB ABOVE ACCESSIBLE CEILING. SEE LOW VOLTAGE DRAWINGS.
⊕	RECEPTACLE CROSS LINE DENOTES 6" ABOVE COUNTER OR BACKSPLASH, RECEPTACLES AT TV'S TO BE AT +60" AFF.	OS	CEILING MOUNTED OCCUPANCY SENSOR "AUTO ON / AUTO OFF"
⊕	RECEPTACLE SHADING DENOTES GROUND FAULT CIRCUIT INTERRUPTER "GFCI", NEMA 5-20R	V	CEILING MOUNTED VACANCY SENSOR "MANUAL ON / AUTO OFF"
⊕	DOUBLE DUPLEX (QUAD) RECEPTACLE	PS	CEILING MOUNTED DAYLIGHT SENSOR
⊕	RECEPTACLE SHADING DENOTES SWITCHED OUTLET	PF	LIGHTING POWER PACK
⊕	DUPLEX RECEPTACLE WITH TWO (2) USB PORTS	CR	CARD READER, SEE LOW VOLTAGE DRAWINGS
⊕	CEILING-MOUNTED RECEPTACLE	CR	SECURITY CAMERA, SEE LOW VOLTAGE DRAWINGS
⊕	SPECIAL PURPOSE RECEPTACLE NEMA CONFIGURATION AS REQUIRED BY MANUFACTURER'S EQUIPMENT. VERIFY CONDUIT, CONDUCTOR AND DISCONNECT/CIRCUIT BREAKER REQUIREMENTS PRIOR TO ROUGH-IN	HD	OVERHEAD DOOR OPERATOR
⊕	RAISED FLOOR BOX, ATKORE CII HIGH CAPACITY 2000 W/ 4-DUPLEX RECEPTACLES AND 6 - DATA CONNECTIONS. PROVIDE POWERMATE FLEXIBLE CABLES FROM EACH FLOOR BOX IN THE RAISED ACCESS FLOOR TO EACH JUNCTION BOX FOR POWER DISTRIBUTION AND BRANCH CIRCUIT TERMINATIONS. THE CABLE LENGTHS SHALL BE BETWEEN 8'-0" AND 15'-0", TO ACCOMMODATE COMPLETE ACCESS OF POWER THROUGHOUT EACH ROOM. COORDINATE AND VERIFY THE QUANTITIES OF FLOOR BOXES, JUNCTION BOXES AND THE POWERMATE FLEXIBLE CABLE LENGTHS WITH THE ACCESS FLOOR CONTRACTOR. SEE COMMUNICATION DRAWINGS FOR DATA REQUIREMENTS. COVER FINISH AS SELECTED BY ARCHITECT.	ATS	AUTOMATIC TRANSFER SWITCH
⊕	CONCRETE FLOOR BOX, LEGRAND #RFB11-06 & #RFB11#BTC W/ 4-DUPLEX RECEPTACLES AND 6 - DATA CONNECTIONS. SEE COMMUNICATION DRAWINGS FOR DATA REQUIREMENTS. COVER FINISH AS SELECTED BY ARCHITECT.	C/B	CIRCUIT BREAKER

ELECTRIC HEAT SCHEDULE	
EH-1	RECESSED ELECTRICAL WALL HEATER "MARKEL" #E3322TD-RP 1.0 KW, 120V, 1PH WITH RECESSED MOUNTING BOX
EH-2	ELECTRICAL UNIT HEATER "MARKEL" #HF5105T 1874W, 208V, 1PH WITH T-STAT AND MOUNTING BRACKET
EH-3	PEDESTAL MOUNTED ELECTRICAL DRAFT BARRIER HEATER "MARKEL" #E41T2-165-ITS-PD, 6'-0" LONG, 990W, 120V, 1PH



DETAIL - VEHICLE EXHAUST DETECTION

SCALE: NONE

NOT FOR CONSTRUCTION

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DANE COUNTY EMERGENCY MANAGEMENT REMODEL
 5415 KING JAMES WAY
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CD CHECK SET	11/20/20
98% CD REVIEW	02/11/21
HVAC REDESIGN	04/30/21
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 PROJECT NUMBER: 2020-001

ELECTRICAL SYMBOLS, SCHEDULES & DETAILS
E4.3

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COMMUNICATIONS & LOW VOLTAGE CONDUIT REQUIREMENTS:

ALL CONDUIT RUNS SHALL BE 3/4" EMT, UNLESS NOTED OTHERWISE.

ALL BOXES SHALL BE A MINIMUM OF 4-11/16" x 4-11/16" x 2-1/8" DEEP BOX WITH A SINGLE GANG TRIM RING MOUNTED FLUSH TO THE WALL SURFACE, UNLESS NOTED OTHERWISE.

ALL MOUNTING HEIGHTS ARE TO THE CENTERLINE OF THE BACKBOX UNLESS NOTED OTHERWISE.

ALL CONDUIT SHALL BE ROUTED ABOVE CEILINGS, BELOW FLOORS, OR STUBBED UP WITHIN WALLS; NO CONDUIT SHALL BE EXPOSED UNLESS APPROVED BY THE ARCHITECT OR OWNER.

ALL CONDUITS IN WALLS SHALL STUB UP AT LEAST 6-INCHES ABOVE THE FINISHED CEILING. ALL STUBS SHALL BE REAMED AND BUSHED AT BOTH ENDS.

ALL CONDUIT PENETRATIONS THROUGH FIRE-RATED PARTITIONS SHALL BE SEALED AS REQUIRED BY CODE. ALL BACKBOXES MOUNTED WITHIN FIRE-RATED PARTITIONS SHALL MEET THE FIRE RATING OF THE PARTITION AS REQUIRED BY CODE.

PROVIDE PULL STRINGS IN ALL CONDUIT RUNS LONGER THAN 10-FEET.

PROVIDE PULL BOXES EVERY 100 LINEAR FEET OR AFTER TWO SUCCESSIVE 90° BENDS.

ALL JUNCTION AND PULL BOXES SHALL BE FURNISHED WITH ACCOMPANYING BLANK COVER PLATE.

ALL BOXES IN EXTERIOR LOCATIONS SHALL BE WEATHERPROOF AND WATERPROOF.

INSTRUCTIONS SHOWN IN DIMENSION LINES, DETAILS, ELEVATIONS, AND PLANS (IN THIS ORDER) TAKE PRECEDENCE OVER INSTRUCTIONS SHOWN IN LEGENDS.

CONDUIT AND CABLE ROUTING SHOWN IS SCHEMATIC AND IS NOT INTENDED TO REPRESENT INSTALLATION PATHS OR DISTANCES. ACTUAL ROUTING AND BOX LOCATIONS SHALL BE FIELD-VERIFIED FOR FEASIBILITY AND COORDINATED WITH OTHER DISCIPLINES BY THE INSTALLATION CONTRACTOR.

HORIZONTAL CONDUITS INTO EACH TECHNOLOGY AREA FROM THE EXTERIOR CEILING PLENUM ARE REQUIRED FOR CABLE ACCESS INTO THE ROOM FROM ALL LOCATIONS THROUGHOUT THE SPACE. THE ENDS OF THE CONDUITS SHALL BE REAMED AND BUSHED, AND EXTEND A MINIMUM OF 2-INCHES INTO THE ROOM.

CABLE O.D. (")	CONDUIT TRADE SIZE AND MAXIMUM QUANTITIES OF CABLES OF THAT O.D.						
	3/4"	1"	1-1/4"	1-1/2"	2"	3"	4"
0.16	10	19	33	46	75	200	333
0.18	8	13	23	32	52	139	231
0.20	6	11	19	25	42	112	187
0.25	4	6	12	16	27	71	120
0.27	3	6	10	14	22	60	102
0.30	2	4	8	10	18	48	82
0.33	1	4	6	8	14	40	68
0.35	1	3	6	8	12	36	60
0.38	1	2	5	7	10	30	50
0.40	1	2	4	6	10	28	46
0.45	1	1	3	5	8	22	38
0.50	1	1	2	4	6	16	30
0.55	1	1	1	3	5	14	24
0.60	N/A	1	1	2	4	12	20
0.67	N/A	1	1	1	3	10	16
0.70	N/A	1	1	1	3	8	14
0.75	N/A	N/A	1	1	2	7	12

NUMBER AND SIZE OF CONDUITS	PULL BOX SIZE (W x L x H IN INCHES)	FOR EACH ADDITIONAL CONDUIT ENTERING THE PULL BOX, INCREASE THE WIDTH
ONE 1-INCH	4 X 16 X 3	2 INCHES
ONE 1-1/4-INCH	6 X 20 X 3	3 INCHES
ONE 1-1/2-INCH	8 X 27 X 4	4 INCHES
ONE 2-INCH	8 X 36 X 4	5 INCHES
ONE 4-INCH	15 X 60 X 8	8 INCHES

CONDUIT DIAMETER	MINIMUM BEND RADIUS
1-INCH	4 INCHES
1-1/4-INCH	8 INCHES
1-1/2-INCH	9 INCHES
2-INCH	12 INCHES
4-INCH	40 INCHES

TELECOMMUNICATIONS GROUNDING NOTES:

- REFER TO E-SERIES DRAWINGS FOR PANEL SCHEDULING INFORMATION AND GROUNDING ELECTRODE SYSTEM DATA.
- A SINGLE GROUND SOURCE SHALL BE PROVIDED FOR GROUNDING ALL RACKS, TRAYS AND METAL FRAMES IN THE MAIN DISTRIBUTION FRAME. A TELECOMMUNICATIONS MAIN GROUNDING BUSBAR (TMGB) SHALL BE PROVIDED AND INSTALLED ON THE MAIN CROSS-CONNECT WALL AT A HEIGHT OF 8-FEET AFF. THE TMGB SHALL CONSIST AT A MINIMUM OF A PREDRILLED COPPER BUSBAR WITH HOLES FOR USE WITH STANDARD-SIZED LUGS, AND HAVE MINIMUM DIMENSIONS OF 1/4-INCH THICK BY 4-INCHES WIDE WITH A MINIMUM OF FORTY-EIGHT (48) CONNECTION POINTS. THE TMGB SHALL BE DIRECTLY BONDED TO THE ELECTRICAL SERVICE GROUND AND TO THE BUILDING STEEL.
- A TELECOMMUNICATIONS GROUNDING BUSBAR (TGB) SHALL BE INSTALLED IN ANY/ALL TELECOM ROOMS. THE TGB SHALL BE MOUNTED ON THE HORIZONTAL CROSS-CONNECT WALL AT A HEIGHT OF 8-FEET AFF. THE TGB SHALL CONSIST OF A PREDRILLED COPPER BUSBAR WITH HOLES FOR USE WITH STANDARD-SIZED LUGS, AND HAVE MINIMUM DIMENSIONS OF 1/4-INCH THICK BY 2-INCHES WIDE WITH A MINIMUM OF TWELVE (12) CONNECTION POINTS.
- A GROUND CABLE FROM THE TMGB TO EACH TGB SHALL BE INSTALLED TO CREATE A FORMAL TELECOMMUNICATIONS BONDING BACKBONE (TBB). THE TBB MAY NOT BE DAISY-CHAINED, BUT CAN BE TAPPED-OFF USING A SHORT BONDING CONDUCTOR. BARE COPPER CABLING IS ACCEPTABLE. THE TBB SHALL BE SIZED BASED ON THE LENGTH OF THE CABLE RUN.
- THE CONTRACTOR SHALL PROVIDE AND INSTALL A MINIMUM #6 AWG GROUND WIRE FROM EACH OPEN RELAY RACK AND CABLE TRAY TO THE MAIN TELECOMMUNICATIONS GROUNDING BUSBAR OR TELECOMMUNICATIONS GROUNDING BUSBAR.
- ANY PENETRATION THROUGH A FIRE-RATED WALL SHALL BE PROPERLY FIRE-STOPPED BY THE CONTRACTOR WITH THE APPROPRIATE FIRE-STOP MATERIAL PER APPLICABLE BUILDING AND ELECTRICAL CODES.
- THE CONTRACTOR SHALL COORDINATE GROUND CABLE INSTALLATION WITH THE ARCHITECTS, MEP ENGINEERS AND THE OTHER TRADES ON THE PROJECT.
- THE CONTRACTOR SHALL ASSUME RESPONSIBILITY FOR ANY DAMAGE TO ANY COMPONENT OF THE TELECOMMUNICATIONS GROUNDING SYSTEM DURING INSTALLATION.
- THE CONTRACTOR SHALL VERIFY THAT THE SIZE OF THE TMGB AND THE TGB ARE ADEQUATE TO SUPPORT THE TELECOMMUNICATIONS GROUNDING REQUIREMENTS FOR THE PROJECT.

ANSI/TIA-607-B CONDUCTOR SIZES	
LENGTH IN FEET	CONDUCTOR SIZE (AWG)
LESS THAN 13	6
14 - 20	4
21 - 26	3
27 - 33	2
34 - 41	1
42 - 52	1/0
53 - 66	2/0
67 - 84	3/0
85 - 105	4/0
106 - 125	250 KCMIL
126 - 150	300 KCMIL
151 - 175	350 KCMIL
176 - 250	500 KCMIL
251 - 300	600 KCMIL
GREATER THAN 301	750 KCMIL

ABBREVIATIONS USED IN THESE DRAWINGS:

AVIC = AUDIOVISUAL CABLING CONTRACTOR
 LVI = LOW VOLTAGE INSTALLER
 EC = ELECTRICAL INSTALLATION CONTRACTOR
 PIC = PAGING INSTALLATION CONTRACTOR
 SIC = SECURITY INSTALLATION CONTRACTOR

NOTE: THE INSTALLATION CONTRACTOR SHALL COORDINATE WITH THE OWNER, ARCHITECT AND GENERAL CONTRACTOR FOR EXACT MOUNTING LOCATIONS PRIOR TO INSTALLATION OF ANY COMPONENTS.

NOTE: ALL RADIO TOWER, RADIO ANTENNA, AND RELATED CABLING BY OWNER.

NOTE: THE GENERAL CONTRACTOR SHALL SCHEDULE A SITE MEETING WITH THE OWNER AND THE RESPECTIVE LOW VOLTAGE AND ELECTRICAL CONTRACTORS TO REVIEW ALL LOCATIONS OF JUNCTION BOXES PRIOR TO INSTALLATION

NOTE: ALL COMMUNICATION PATCH CORD QUANTITIES, LENGTHS, COLORS AT BOTH ENDS ARE BY OWNER.

COMMUNICATIONS LEGEND:

- ▲_W+48" WALLPHONE LOCATION. LVI TO FURNISH AND INSTALL ONE (1) CATEGORY 6 CABLE AND ONE (1) CATEGORY 6 8P8C (RJ45) JACK IN A FACEPLATE WITH WALLPHONE MOUNTING LUGS. REFER TO THE REQUIREMENTS DRAWING FOR CABLE AND JACK REQUIREMENTS. LVI TO COORDINATE FACEPLATE FINISH AND HEIGHT WITH ARCHITECTS.
- ▲₁ ONE (1) CABLE AND ONE (1) JACK LOCATION. LVI TO FURNISH AND INSTALL ONE (1) CATEGORY 6 CABLE AND ONE (1) CATEGORY 6 8P8C (RJ45) JACK AT THIS LOCATION. REFER TO THE REQUIREMENTS DRAWINGS FOR CABLE AND JACK REQUIREMENTS. LVI TO COORDINATE FACEPLATE FINISH AND HEIGHT WITH ARCHITECTS.
- ▲₂ TWO (2) CABLE AND TWO (2) JACK LOCATION. LVI TO FURNISH AND INSTALL TWO (2) CATEGORY 6 CABLES AND TWO (2) CATEGORY 6 8P8C (RJ45) JACKS AT THIS LOCATION. REFER TO THE REQUIREMENTS DRAWINGS FOR CABLE AND JACK REQUIREMENTS. LVI TO COORDINATE FACEPLATE FINISH AND HEIGHT WITH ARCHITECTS.
- ▲₃ THREE (3) CABLE AND THREE (3) JACK LOCATION. LVI TO FURNISH AND INSTALL THREE (3) CATEGORY 6 CABLES AND THREE (3) CATEGORY 6 8P8C (RJ45) JACKS AT THIS LOCATION. REFER TO THE REQUIREMENTS DRAWINGS FOR CABLE AND JACK REQUIREMENTS. LVI TO COORDINATE FACEPLATE FINISH AND HEIGHT WITH ARCHITECTS.
- ▲₄ FOUR (4) CABLE AND FOUR (4) JACK LOCATION. LVI TO FURNISH AND INSTALL FOUR (4) CATEGORY 6 CABLES AND FOUR (4) CATEGORY 6 8P8C (RJ45) JACKS AT THIS LOCATION. REFER TO THE REQUIREMENTS DRAWINGS FOR CABLE AND JACK REQUIREMENTS. LVI TO COORDINATE FACEPLATE FINISH AND HEIGHT WITH ARCHITECTS.
- ▲_R FOUR (4) CABLE AND FOUR (4) JACK LOCATION. LVI TO FURNISH AND INSTALL FOUR (4) CATEGORY 6 CABLES AND FOUR (4) CATEGORY 6 8P8C (RJ45) JACKS AT THIS LOCATION. REFER TO THE REQUIREMENTS DRAWINGS FOR CABLE AND JACK REQUIREMENTS. LVI TO COORDINATE FACEPLATE FINISH AND HEIGHT WITH ARCHITECTS. USED IN RADIO ROOM 009. REFER TO T3.0 FOR DETAILS ON JACK CONFIGURATION.
- ▲_{WAP} CEILING DATA LOCATION CONSISTING OF TWO (2) CATEGORY 6A 8P8C (RJ45) JACKS AND TWO (2) CATEGORY 6A CABLES TO SUPPORT CUSTOMER PROVIDED AND LVI INSTALLED WIRELESS ACCESS POINTS. LVI TO FURNISH AND INSTALL TWO (2) CATEGORY 6A CABLES AND TWO (2) CATEGORY 6A 8P8C (RJ45) JACKS WITH A 25-FOOT SERVICE LOOP AT THIS LOCATION. LVI SHALL FURNISH AND INSTALL A PLENUM-RATED TWO-JACK RJ-45 (8P8C) HUBBELL ISB2WP (OR EQUIVALENT) MODULE AT END OF THE 25-FOOT SERVICE LOOP COIL. REFER TO THE REQUIREMENTS DRAWINGS FOR CABLE AND JACK REQUIREMENTS.
- ▲_C CEILING DATA LOCATION CONSISTING OF ONE (1) CATEGORY 6 CABLE TO SUPPORT SIC FURNISHED AND INSTALLED SURVEILLANCE CAMERA. LVI TO FURNISH AND INSTALL ONE (1) CATEGORY 6 CABLE TERMINATED WITH A CATEGORY 6 8P8C (RJ45) MODULAR PLUG WITH A 25-FOOT SERVICE LOOP AT THIS LOCATION. REFER TO THE REQUIREMENTS DRAWINGS FOR CABLE REQUIREMENTS.
- ▲_{TV} TELEVISION LOCATION. LVI TO FURNISH AND INSTALL TWO (2) CATEGORY 6 CABLES, ONE (1) COAXIAL CABLE, TWO (2) CATEGORY 6 8P8C (RJ45) JACKS, AND ONE (1) F-TYPE CONNECTOR AT THIS LOCATION. REFER TO THE REQUIREMENTS DRAWINGS FOR CABLE AND JACK REQUIREMENTS. LVI TO COORDINATE FACEPLATE FINISH AND HEIGHT WITH ARCHITECTS.
- ▲₂ TWO (2) CABLE AND TWO (2) JACK LOCATION. LVI TO FURNISH AND INSTALL TWO (2) CATEGORY 6 CABLES AND TWO (2) CATEGORY 6 8P8C (RJ45) JACKS AT THIS LOCATION ALONG WITH APPROPRIATE INSERTS FOR FLOOR BOX, POKE-THRU DEVICE, OR TABLE TOP BOX THAT IS PROVIDED BY THE EC. REFER TO THE REQUIREMENTS DRAWINGS FOR CABLE AND JACK REQUIREMENTS. LVI TO COORDINATE FACEPLATE FINISH WITH ARCHITECTS.
- ▲₄ FOUR (4) CABLE AND FOUR (4) JACK LOCATION. LVI TO FURNISH AND INSTALL FOUR (4) CATEGORY 6 CABLES AND FOUR (4) CATEGORY 6 8P8C (RJ45) JACKS AT THIS LOCATION ALONG WITH APPROPRIATE INSERTS FOR FLOOR BOX, POKE-THRU DEVICE, OR TABLE TOP BOX THAT IS PROVIDED BY THE EC. REFER TO THE REQUIREMENTS DRAWINGS FOR CABLE AND JACK REQUIREMENTS. LVI TO COORDINATE FACEPLATE FINISH WITH ARCHITECTS. ALL FOUR JACKS TO BE "BLUE" IN COLOR.

▲_X MOUNTING INFORMATION, WHERE X =

- A ABOVE CEILING
- D TO THE DESK
- F FLUSH-MOUNTED
- H HIDDEN UNDER WORKSURFACE
- M TO THE MULLION
- R TO THE RACK ITSELF
- S PLACED ON THE WORKSURFACE

▲_{AV} MOUNTING INFORMATION, WHERE X =

- A ABOVE CEILING
- D TO THE DESK
- F FLUSH-MOUNTED
- H HIDDEN UNDER WORKSURFACE
- M TO THE MULLION
- P TO THE PODIUM
- R TO THE RACK ITSELF
- S PLACED ON THE WORKSURFACE
- TX TRANSMITTER
- RX RECEIVER



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DANE COUNTY EMERGENCY MANAGEMENT REMODEL
 5415 KING JAMES WAY
 FITCHBURG, WISCONSIN

ISSUE RECORD	
1	ISSUE FOR BD 08-03-21

CHECKED BY: _____
 TFI
 DRAWN BY: _____
 SENTINEL
 DATE: 01-04-21
 PROJECT NUMBER: 2020-001

LEGEND AND GENERAL NOTES
 TO.O



EXPIRES 12/31/23
 Regis. No. 119867

TO.O

NOT FOR CONSTRUCTION

GENERAL SCOPE REQUIREMENTS:

- 1. ALL CABLE, ASSOCIATED MATERIALS AND LABOR REQUIRED FOR A COMPLETE INSTALLATION OF THE COMMUNICATIONS CABLING SYSTEM SHALL BE PROVIDED BY THE LVI UNLESS OTHERWISE STATED IN THE DRAWINGS.
2. WHERE APPLICABLE, THE LVI SHALL REMOVE ALL PREVIOUSLY INSTALLED AND ABANDONED CABLE BEFORE THE INSTALLATION OF NEW CABLE TAKES PLACE. THIS MAY CONSIST OF ABANDONED COMMUNICATIONS CABLING NOT REMOVED DURING DEMOLITION AS WELL AS ANY TEMPORARY CABLING INSTALLED BY THE LVI AS PART OF THE INSTALLATION.
3. DUE CARE AND DILIGENCE HAVE BE USED IN PREPARATION OF THE DRAWINGS, AND THEY ARE BELIEVED TO BE SUBSTANTIALLY CORRECT. HOWEVER, THE RESPONSIBILITY FOR DETERMINING THE FULL EXTENT OF EXPOSURE AND THE VERIFICATION OF ALL INFORMATION PRESENTED HEREIN SHALL REST SOLELY WITH THE LVI. THE OWNER, SENTINEL TECHNOLOGIES, AND ANY OTHER REPRESENTATIVES WILL NOT BE RESPONSIBLE FOR ANY ERRORS OR OMISSIONS IN THESE DRAWINGS, NOR FOR THE FAILURE ON THE PART OF THE LVI TO DETERMINE THE FULL EXTENT OF THE EXPOSURES.
4. THE LVI SHALL NOT BE ALLOWED TO TAKE ADVANTAGE OF ANY ERRORS OR OMISSIONS IN THESE DRAWINGS. WHERE ERRORS OR OMISSIONS APPEAR IN THESE DRAWINGS, THE LVI SHALL PROMPTLY NOTIFY SENTINEL TECHNOLOGIES IN WRITING OF SUCH ERROR OR OMISSIONS. ANY SIGNIFICANT ERROR, OMISSIONS, OR INCONSISTENCIES IN THE DRAWINGS SHALL BE REPORTED NO LATER THAN FIVE (5) DAYS BEFORE THE SUBMISSION DEADLINE. THE OWNER, SENTINEL TECHNOLOGIES, AND ANY OTHER REPRESENTATIVES SHALL NOT BE RESPONSIBLE FOR ERRORS THAT GO UNDISCOVERED.
5. THE LVI SHALL PROTECT ALL STORED AND INSTALLED MATERIALS AS PART OF THESE SYSTEMS BEFORE, DURING, OR AFTER INSTALLATION FROM DAMAGE CAUSED BY OTHER TRADES UNTIL TURNOVER AND FINAL ACCEPTANCE. IF DAMAGE OCCURS DESPITE SUCH PROTECTIONS, REMOVE AND REPLACE ALL DAMAGED COMPONENTS FOR THE ENTIRE UNIT(S) AS REQUIRED TO PROVIDE A SOLUTION IN AN ORIGINAL, UNDAMAGED CONDITION.
6. THE T568B WIRING PATTERN SHALL BE USED FOR ALL UTP CABLE TERMINATIONS.
7. IN DISTRIBUTED TELECOMMUNICATIONS ROOMS THAT ARE VERTICALLY STACKED, ALL LVI-INSTALLED CABLE SHALL BE INSTALLED IN SLEEVES OR CONDUITS (FURNISHED AND INSTALLED BY OTHERS). IF SLEEVES ARE USED, THEN ALL ALL CABLES SHALL BE SECURED TO THE WALL EVERY FORTY-EIGHT INCHES (48").
8. ALL LVI-INSTALLED CABLE RUNS SHALL CONTAIN NO SPLICE OR TRANSITION POINTS FROM CROSS-CONNECT TO CROSS-CONNECT OR FROM CROSS-CONNECT TO EACH OUTLET LOCATION.
9. ALL CABLES SHALL BE INSTALLED SUCH THAT THE RESPECTIVE MANUFACTURERS' RECOMMENDED BEND RADIUS FOR EACH CABLE TYPE IS NOT EXCEEDED.
10. THE LVI SHALL BE RESPONSIBLE FOR VERIFYING THE ACTUAL DISTANCES FOR EACH LVI-INSTALLED CABLE RUN FROM CROSS-CONNECT TO CROSS-CONNECT.
11. ALL LVI-INSTALLED CABLES SHALL BE PROPERLY DRESSED, TIED, AND TRIMMED.
12. CABLE PULLING LUBRICANTS, WHERE USED, SHALL BE APPROVED BY THE CABLE MANUFACTURER SO THAT THE LUBRICATING COMPOUNDS DO NOT DETERIORATE THE CABLE JACKET.
13. THE LVI SHALL PROVIDE AND INSTALL ALL JACKS AND APPROPRIATE INSERTS FOR ALL LOCATIONS INCLUDING THOSE INSIDE FLOOR, TABLE-TOP BOXES, AND MODULAR FURNITURE SYSTEMS.

DRAWINGS:

- 1. THESE DRAWINGS ARE DIAGRAMMATIC IN NATURE AND MAY NOT REPRESENT EXACT FIELD CONDITIONS. THE LVI SHALL FIELD-VERIFY CRITICAL INSTALLATION REQUIREMENTS AND PROVIDE NECESSARY ASSOCIATED WORK.
2. THE LOCATIONS OF TELECOMMUNICATION EQUIPMENT AND DEVICES SHOWN ARE APPROXIMATE. THE LVI SHALL, PRIOR TO INSTALLATION, VERIFY EXACT LOCATIONS BY CROSS-CHECKING ARCHITECTURAL AND ELECTRICAL DRAWINGS, FIELD CONDITIONS, AND APPROVED SHOP DRAWINGS.
3. THE LVI SHALL TAKE FIELD MEASUREMENTS AS REQUIRED TO FIT THE WORK PROPERLY. RECHECK MEASUREMENTS BEFORE INSTALLING EACH PRODUCT. WHERE PORTIONS OF THE WORK ARE INDICATED TO FIT OTHER CONSTRUCTION, VERIFY DIMENSIONS OF OTHER CONSTRUCTION BY FIELD MEASUREMENTS BEFORE FABRICATION. COORDINATE FABRICATION SCHEDULE WITH CONSTRUCTION PROGRESS TO AVOID DELAYING THE WORK.
4. LOCATIONS AND ROUTES OF PATHWAYS SHOWN ON DRAWINGS ARE SCHEMATIC AND NOT NECESSARILY REFLECTIVE OF CONDITIONS AT TIME OF INSTALLATION, OR WERE POSITIONED FOR CLARITY RATHER THAN EXACT SPACING, BENDING, OR DESIRED SEPARATION. THE LVI SHALL REVIEW ANY AND ALL SUCH PATHWAYS SHOWN ON THE DRAWINGS TO ENSURE THAT THE PROPOSED SOLUTION WILL FUNCTION AS INTENDED WITH REGARD TO QUANTITIES, SIZES, LOCATIONS, ETC.
5. THE LVI SHALL REVIEW THE ACTUAL CONDUIT PLANS PROPOSED BY THE MEP ENGINEER OR EC TO ENSURE THAT CONDUITS INTENDED FOR THE COMMUNICATIONS CABLING SYSTEM ARE CORRECTLY SIZED, ADEQUATELY POSITIONED, AND HAVE THE REQUISITE NUMBER OF PULL BOXES AS REQUIRED BY THE ACTUAL MATERIALS PROPOSED BY THE LVI, AND/OR AS THE LVI DESIRES AS OPTIMAL FOR INSTALLATION. THE LVI SHALL BE RESPONSIBLE FOR ANY AND ALL COSTS ASSOCIATED WITH CONDUIT CHANGES RESULTING FROM FAILURE TO PREVIEW AND APPROVE THE PATHWAYS INSTALLED BY OTHERS.
6. THE LVI SHALL BE PREPARED TO RELOCATE EQUIPMENT OR DEVICES PROVIDED UNDER THIS SCOPE OF WORK WHEN DIRECTED BY THE PROJECT TEAM WITHOUT COST, PROVIDED EQUIPMENT HAS NOT BEEN INSTALLED AND THE NEW LOCATION IS NOT GREATER THAN TWENTY FIVE FEET (25') FROM THE LOCATION ORIGINALLY SHOWN.
7. OUTLETS SHALL BE LOCATED AT SAME HEIGHT, AND OF SAME ORIENTATION UNLESS OTHERWISE NOTED.
8. WIRING, SIGNAL AND CONTROL DEVICES WHERE PROVIDED SHALL BE FLUSH-MOUNTED IN FINISHED AREAS.

QUALITY ASSURANCE:

- 1. ALL MATERIALS AND LABOR PROVIDED BY THE LVI SHALL BE OF THE HIGHEST QUALITY. THE LVI SHALL BE CERTIFIED TO INSTALL THE SOLUTION THAT THE LVI HAS PROPOSED AS SPECIFIED IN THESE DRAWINGS. THE LVI SHALL INSTALL ALL MATERIALS IN COMPLIANCE WITH MANUFACTURER'S WRITTEN DIRECTIONS.
2. ONLY THE HIGHEST GRADE COMPONENTS SHALL BE CONSIDERED, AND ALL COMPONENTS SHALL BE BALANCED WITH EACH OTHER FROM AN ELECTRICAL AND PERFORMANCE CHARACTERISTIC STANDPOINT.
3. THE COMMUNICATIONS CABLING SYSTEM SHALL BE END-TO-END CERTIFIED BY THE LVI AND THE MANUFACTURER. A WRITTEN DOCUMENT ADDRESSING THE COMMUNICATION CABLING SYSTEM'S CERTIFICATION SHALL BE PROVIDED BY THE MANUFACTURER ONCE THE INSTALLATION IS COMPLETE.
4. ALL WORK SHALL BE PERFORMED IN A WORKMANLIKE MANNER ACCORDING TO GENERALLY ACCEPTED TRADE PRACTICES.
5. APPROPRIATE UNION (OR PREVAILING WAGE) REQUIREMENTS SHALL BE STRICTLY

- FOLLOWED AND ALL LVI EMPLOYEES ON SITE SHALL HAVE APPROPRIATE UNION LICENSES IF REQUIRED BY THE GC.
7. ALL WORK TO BE PERFORMED BY THE LVI SHALL BE COORDINATED WITH THE OTHER TRADES AND THE GC.
8. THE LVI SHALL CONFORM AND ADHERE TO ALL JOB SITE REQUIREMENTS AS DEFINED BY THE GC. IT IS THE RESPONSIBILITY OF THE LVI TO OBTAIN THESE REQUIREMENTS FROM THE GC.
9. ALL NECESSARY PERMITS ARE TO BE SECURED BY THE LVI.
10. APPROPRIATE LEVELS OF INSURANCE AND BONDING SHALL BE MAINTAINED. CERTIFICATES OF INSURANCE MAY BE REQUESTED AND SHALL BE PROVIDED AT THE LVI'S EXPENSE.
11. ANY VARIATIONS TO THE INSTALLATION OF THE COMMUNICATIONS CABLING SYSTEM AS DESCRIBED IN THESE DRAWINGS SHALL BE SUBJECT TO THE CONTROL OF THE GC, THE OWNER, AND SENTINEL TECHNOLOGIES.
12. SUBSTITUTION OF ANY MATERIALS SPECIFIED IN THIS DOCUMENT SHALL ONLY BE CONSIDERED ONCE A REQUEST TO DO SO HAS BEEN SUBMITTED IN WRITING TO THE GC, THE OWNER, AND SENTINEL TECHNOLOGIES FOR APPROVAL. THIS SUBMITTAL SHALL DISCUSS THE SCOPE OF THE CHANGE, THE RAMIFICATIONS ON THE OVERALL COMMUNICATIONS CABLING SYSTEM AND THE ADVANTAGES TO BE GAINED BY THE OWNER.
13. THE LVI SHALL CONFORM TO THE FOLLOWING STANDARDS AND ALL CURRENT ADDENDA WHEN PROVISIONING AND INSTALLING THE COMMUNICATIONS CABLING SYSTEM:
13.1. TIA-568.0-E, GENERIC TELECOMMUNICATIONS CABLING FOR CUSTOMER PREMISES
13.2. TIA-568.1-E, COMMERCIAL BUILDING TELECOMMUNICATIONS CABLING STANDARD
13.3. TIA-568.2-D, BALANCED TWISTED-PAIR TELECOMMUNICATIONS CABLING AND COMPONENTS STANDARD
13.4. TIA-568.3-D, OPTICAL FIBER CABLING COMPONENTS
13.5. TIA-568.4-D, BROADBAND COAXIAL CABLING COMPONENTS
13.6. TIA-569-D, TELECOMMUNICATIONS PATHWAYS AND SPACES
13.7. ANSI/NECA/BICSI 568-2006, STANDARD FOR INSTALLING COMMERCIAL BUILDING TELECOMMUNICATIONS CABLING
13.8. ANSI/TIA-570-C, RESIDENTIAL TELECOMMUNICATIONS INFRASTRUCTURE STANDARD
13.9. TIA-606-C, ADMINISTRATION STANDARD FOR TELECOMMUNICATIONS INFRASTRUCTURE
13.10. TIA-607-C, GENERIC TELECOMMUNICATIONS BONDING AND GROUNDING (EARTHING) FOR CUSTOMER PREMISES
13.11. ANSI/TIA-862-B, BUILDING AUTOMATION SYSTEMS CABLING STANDARD
13.12. ANSI/TIA-1005-A, TELECOMMUNICATIONS INFRASTRUCTURE STANDARD FOR INDUSTRIAL PREMISES
13.13. ANSI/TIA-1152-A, REQUIREMENTS FOR FIELD TEST INSTRUMENTS AND MEASUREMENTS FOR BALANCED TWISTED-PAIR CABLING
13.14. ANSI/TIA-758-B, CUSTOMER-OWNED OUTSIDE PLANT TELECOMMUNICATIONS INFRASTRUCTURE STANDARD
13.15. TIA-942-B, TELECOMMUNICATIONS INFRASTRUCTURE STANDARD FOR DATA CENTERS
13.16. ANSI/TIA-1179-A, HEALTHCARE FACILITY TELECOMMUNICATIONS INFRASTRUCTURE STANDARD
13.17. BUILDING INDUSTRY CONSULTING SERVICES INTERNATIONAL (BICSI) TELECOMMUNICATIONS DISTRIBUTION METHODS MANUAL (LATEST EDITION)
13.18. BUILDING INDUSTRY CONSULTING SERVICES INTERNATIONAL (BICSI) INFORMATION TRANSPORT SYSTEMS INSTALLATION MANUAL (LATEST EDITION)
13.19. TIA-526-14-C, OPTICAL POWER LOSS MEASUREMENTS OF INSTALLED MULTIMODE FIBER CABLE PLANT
13.20. TIA-526-7-A, OPTICAL POWER LOSS MEASUREMENTS OF INSTALLED SINGLE-MODE FIBER CABLE PLANT
13.21. ANSI/BICSI 001-2017, INFORMATION TRANSPORT SYSTEMS DESIGN STANDARD FOR K-12 EDUCATIONAL INSTITUTIONS
13.22. ANSI/BICSI 002-2019, DATA CENTER DESIGN AND IMPLEMENTATION BEST PRACTICES
13.23. ANSI/BICSI 004-2018, INFORMATION TECHNOLOGY SYSTEMS DESIGN AND IMPLEMENTATION BEST PRACTICES FOR HEALTHCARE INSTITUTIONS AND FACILITIES
13.24. NFPA 70 NATIONAL ELECTRICAL CODE (NEC) 2020 (WHERE MORE STRINGENT THAN LOCAL CODES)
13.25. ALL APPLICABLE LOCAL, COUNTY, AND STATE BUILDING AND ELECTRICAL CODES
13.26. UL 444, COMMUNICATION CABLES
13.27. FCC PART 68 REGULATIONS
13.28. IEEE 802.3, ETHERNET STANDARD

FIRST-NAMED MANUFACTURER:

- 1. WITHIN THESE DRAWINGS, THE FIRST-NAMED APPROVED MANUFACTURER INDICATES THAT ITS RESPECTIVE DEVICE, EQUIPMENT OR SYSTEM MAY HAVE BEEN USED TO MEET THE JOB REQUIREMENTS AND TO DETERMINE THE SPACE AND DIMENSIONAL REQUIREMENTS. THE LVI'S USE OF ANOTHER PRE-APPROVED SYSTEM SHALL REQUIRE THAT THE LVI VERIFY THAT THE RESPECTIVE DEVICES, EQUIPMENT, SYSTEMS, OR PRODUCTS WILL MEET THE JOB REQUIREMENTS AND WILL FIT THE ALLOCATED SPACE.
2. THE LISTING OF A MANUFACTURER AS ACCEPTABLE OR PRE-APPROVED DOES NOT IN ANY WAY RELIEVE THE LVI FROM THE RESPONSIBILITY FOR PROVIDING DEVICES, EQUIPMENT, OR SYSTEMS THAT MEET THE REQUIREMENTS OF THE SPECIFICATIONS. THE LVI SHALL VERIFY THAT PERFORMANCE REQUIREMENTS ARE MET, AS NO TWO MANUFACTURERS SHOULD BE TRUSTED AS EXACTLY IDENTICAL IN FUNCTION, FIT, OR FINISH.

COORDINATION:

- 1. THE LVI SHALL COORDINATE THE ARRANGEMENT, INSTALLATION, AND FINISHING OF THE COMMUNICATIONS CABLING SYSTEM:
1.1. ALL FACEPLATE COLORS AND FINISHES SHALL BE COORDINATED WITH THE ARCHITECT
1.2. ANY CONDUIT, PATHWAY, OR SLEEVE REQUIREMENTS SHALL BE COORDINATED WITH THE MEP ENGINEER
1.3. THE ALIGNMENT AND POSITIONING OF PULL BOXES, JUNCTION BOXES, BACK BOXES, CONDUIT ENDS, STUBS, SLEEVES, ETC., WITH LVI-INSTALLED RACEWAYS, HORIZONTAL OR VERTICAL TRAYS, RACKS, AND CABINETS, ETC.
1.4. ANY EQUIPMENT CUT INTO, MOUNTED ON, OR SUSPENDED FROM ARCHITECTURAL ELEMENTS SUCH AS WALLS OR CEILINGS SHALL BE COORDINATED WITH THE ARCHITECT TO ENSURE THAT THERE IS NO CONFLICT WITH DESIGN INTENT OR FUNCTIONALITY.
1.5. ANY OTHER ELEMENTS THAT MIGHT OR WILL INTERFERE WITH ELEMENTS INSTALLED BY OTHER TRADES SHALL BE COORDINATED WITH THE GC AND THOSE RESPECTIVE TRADES
2. CONFLICTS REQUIRING NOTICEABLE DEVIATION FROM THE DRAWINGS SHALL BE COORDINATED WITH SENTINEL.

FIRE STOPPING:

- 1. FIRE STOP SYSTEMS SHALL BE UL-LISTED OR FACTORY MUTUAL APPROVED. THE LVI SHALL FURNISH AND INSTALL THE PROPER FIRE STOP SYSTEM WITH CLASSIFIED PRODUCTS AND MATERIALS COMPATIBLE WITH THE APPROPRIATE PENETRATING ELEMENTS, TYPE OF CONSTRUCTION MATERIAL AND DIMENSIONS OF THE WALL, PARTITION, BARRIER, OR FLOOR, AND THE ENVIRONMENT AND TEMPERATURE RANGE OF BOTH SIDES OF THE OPENING. FIRE STOP SYSTEMS SHALL MAINTAIN THE ORIGINAL FIRE RESISTANCE RATING OF THE WALL, PARTITION, BARRIER, OR FLOOR PRIOR TO THE PENETRATION.
2. EXPANSION TYPE FIRE STOP MATERIAL SHALL BE USED WHERE NECESSARY TO PROTECT AND CLOSE UPON FAILURE OF THE PENETRATING ELEMENT DUE TO FIRE.
3. FIRE STOP PENETRATIONS IN FIRE-RATED WALLS AND FLOORS FOR SLEEVES, CABLES, CONDUITS, DUCTS, AND CABLE TRAYS.
4. FIRE STOPPING FOR OPENINGS THROUGH FIRE AND SMOKE-RATED WALLS AND FLOOR ASSEMBLIES SHALL BE LISTED OR CLASSIFIED BY AN APPROVED INDEPENDENT TESTING LABORATORY FOR "THROUGH-PENETRATION FIRE STOP SYSTEMS," AND SHALL MEET THE REQUIREMENTS DESIGNATED IN ASTM E814 (OR UL1479).
5. THICKNESS OF MATERIALS MUST BE ESTABLISHED BY FORMAL ASTM E814 OR UL1779 TESTS.
6. THE LVI SHALL INSTALL FIRE STOPPING MATERIAL IN ACCORDANCE WITH CONSTRUCTION ELEMENTS AND MANUFACTURER SPECIFICATIONS.
7. THE LVI SHALL THOROUGHLY CLEAN AND REMOVE ANY FIRE STOPPING MATERIAL THAT DRIPS OR FALLS ONTO WALL OR FLOOR SURFACES.

SUBMITTALS:

- 1. UPON AWARD OF THE PROJECT, SHOP DRAWINGS AND PRODUCT DATA OF STANDARD CATALOGED PRODUCTS SHALL BE SUBMITTED WITH APPLICABLE DATA THAT MEET THE PROJECT REQUIREMENTS. SUBMITTALS THAT INCLUDE INFORMATION ON MULTIPLE DEVICES OR EQUIPMENT ARE ACCEPTABLE ONLY WHEN ITEMS APPLICABLE TO THE PROJECT ARE IDENTIFIED WITH ARROWS, CHECK MARKS OR OTHER CALL OUTS. THE LVI SHALL CLEARLY IDENTIFY WHICH MANUFACTURER SOLUTIONS ARE BEING PROPOSED AT THE TIME OF THE BID RESPONSE.
2. WHEN SHOP DRAWINGS ARE CREATED FROM OR INCORPORATED WITH SENTINEL'S DRAWINGS, THE LVI SHALL REMOVE THE ARCHITECT'S, ENGINEER'S, AND SENTINEL'S TITLE BLOCKS AND REPLACE THEM WITH THE LVI'S OWN, UNIQUE TITLE BLOCK. THE LVI'S TITLE BLOCK SHALL INCLUDE AT A MINIMUM THE LVI'S NAME, ADDRESS AND TELEPHONE NUMBER, AND PROJECT NAME.
3. SHOP DRAWINGS OF RELATED EQUIPMENT, DEVICES, AND MATERIAL SHALL BE SUBMITTED AT THE SAME TIME SO THE PROJECT TEAM CAN COORDINATE RELATED COMPONENTS.
4. NO MATERIAL OR EQUIPMENT SHALL BE PURCHASED, RELEASED FOR MANUFACTURE, OR SHIPMENT WITHOUT FIRST OBTAINING THE APPROVAL OF THE PROJECT TEAM. ONLY THE LVI SHALL BE RESPONSIBLE FOR COSTS AND COORDINATION OF RETURNING ITEMS PURCHASED PRIOR TO APPROVAL.
5. THE LVI SHALL SUBMIT AN ELECTRONIC COPY OF THE SUBMITTALS UNLESS DIRECTED OTHERWISE BY THE GC OR THE OWNER. THESE SUBMITTALS SHALL BE SUBJECT TO APPROVAL OR REJECTION WITH COMMENTARY. SUBMITTALS MAY CONSIST OF BUT NOT BE LIMITED TO ONE OR ANY APPROPRIATE COMBINATION OF THE FOLLOWING:
5.1. MANUFACTURER CUT-SHEETS
5.2. SHOP DRAWINGS (INCLUDING SINGLE-LINE DIAGRAMS)
5.3. CATALOG SHEETS
5.4. WRITTEN SPECIFICATIONS
5.5. ORIGINALS OR COPIES OF THE ABOVE
6. IF HARD COPIES OF THE SUBMITTALS ARE REQUESTED, THEY SHOULD BE BOUND IN A STANDARD THREE-RING BINDER WITH A MINIMUM OF THE LVI'S NAME, ADDRESS, TELEPHONE NUMBER, AND THE PROJECT NAME.

TESTING, IDENTIFICATION, AND ADMINISTRATION REQUIREMENTS:

- 1. UTP HORIZONTAL AND BACKBONE CABLING
1.1. A LEVEL IIIa CERTIFIED TESTING DEVICE SHALL BE USED. THE TESTER SHALL HAVE BEEN FIELD CALIBRATED WITHIN THE LAST MONTH.
1.2. THE LVI SHALL ENSURE THAT THE APPROPRIATE ADAPTERS AND TEST CORDS ARE USED.
1.3. ALL PAIRS OF HORIZONTAL STATION AND BACKBONE CABLING SHALL BE TESTED FROM THE JACK TO THE PATCH PANEL OR BLOCK, AND FROM PATCH PANEL TO PATCH PANEL IN A BI-DIRECTIONAL MANNER.
1.4. ALL TESTING SHALL BE CONDUCTED ON THE PERMANENT LINK. REFER TO THE END OF THIS SPECIFICATION FOR A NOTE ON THE USE OF PATCH CORDS.
1.5. ALL TESTING SHALL BE IN CONFORMANCE WITH THE MANUFACTURER'S REQUIREMENTS TO OBTAIN APPLICATION PERFORMANCE WARRANTY CERTIFICATION.
2. THE LVI SHALL PROVIDE TEST RESULTS AND CERTIFICATION AS TO THE COMMUNICATIONS CABLING SYSTEM'S ADHERENCE TO THE STANDARDS AND PERFORMANCE REQUIREMENTS REFERENCED IN THESE DRAWINGS.
3. LABELS SHALL MEET THE LEGIBILITY, EXPOSURE, DEFACEMENT, AND ADHESION REQUIREMENTS OF UL969.
4. LABELS SHALL BE PREPRINTED OR PRINTED BY A COMPUTER. LABELS WRITTEN BY HAND ARE NOT ACCEPTABLE.
5. THE LVI SHALL THOROUGHLY LABEL THE ENTIRE COMMUNICATIONS CABLING SYSTEM FOR FUTURE MAINTAINABILITY.
6. ALL CABLES SHALL BE LABELED AT THE FACEPLATE, THE PATCH PANEL JACK/PORT. THE LVI SHALL PROVIDE RECORD DRAWINGS IN AN AUTOCAD COMPATIBLE FORMAT AND IN PDF FORMAT.
7. THE LVI SHALL THOROUGHLY DOCUMENT THE ENTIRE COMMUNICATIONS CABLING SYSTEM FOR FUTURE MAINTAINABILITY AND TROUBLESHOOTING.

CUTOVER AND TRAINING REQUIREMENTS:

- 1. THE LVI SHALL COORDINATE ALL TRAINING WITH THE CUSTOMER TO DETERMINE THE EXTENT, DURATION, AND SCHEDULE OF THE TRAINING SESSIONS.
2. THE LVI SHALL PROVIDE TRAINING FOR CUSTOMER PERSONNEL TO ENSURE KNOWLEDGE TRANSFER REGARDING DOCUMENTATION AND OPERATION OF THE COMMUNICATIONS CABLING SYSTEM.
3. AT CLOSEOUT, CLEAN OR RE-CLEAN ENTIRE WORK TO NORMAL LEVEL FOR "FIRST CLASS" MAINTENANCE/CLEANING OF BUILDOUT PROJECTS OF A SIMILAR NATURE. REMOVE NON-PERMANENT PROTECTION AND LABELS, CLEAN EXPOSED FINISHES, TOUCH-UP MINOR FINISH DAMAGE, REMOVE DEBRIS AND BROOM-CLEAN SPACES, SANITIZE WORK, AND PERFORM SIMILAR CLEANUP OPERATIONS NEEDED TO PRODUCE A CLEAN CONDITION.

SUPPORT AND WARRANTY REQUIREMENTS:

- 1. THE COMMUNICATIONS CABLING SYSTEM SHALL BE END-TO-END CERTIFIED BY THE LVI AND THE MANUFACTURER.

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www.prairieforgegroup.com

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DANE COUNTY EMERGENCY MANAGEMENT REMODEL
5415 KING JAMES WAY
FITZBURG, WISCONSIN

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ISSUE RECORD
1 ISSUE FOR BID 08-01-21

CHECKED BY: [Signature]
TFT
DRAWN BY: SENTINEL
DATE: 01-04-21
PROJECT NUMBER: 2020-001

TELECOM REQUIREMENTS 1
TO.1

SENTINEL
2550 WARRENVILLE ROAD
DOWNERS GROVE, ILLINOIS 60515
630.769.4300
www.sentinel.com
BICSI
REGISTERED COMMERCIAL CONTRACTOR
EXPIRES 12/31/23
Regis. No. 119867

- AN EXTENDED MATERIAL, LABOR, AND PERFORMANCE WARRANTY SHALL BE PROVIDED BY THE MANUFACTURER. THE LVI SHALL DELIVER TO THE OWNER THE DOCUMENTATION OUTLINING THE TERMS AND CONDITIONS OF THE WARRANTY. A MINIMUM 20-YEAR APPLICATION PERFORMANCE WARRANTY IS REQUIRED.
- ONCE THE COMMUNICATIONS CABLING SYSTEM IS CERTIFIED, THE LVI SHALL REPAIR - AT NO ADDITIONAL CHARGE - ANY PART OF THE COMMUNICATIONS CABLING SYSTEM THAT IS NOT WORKING PROPERLY WITHIN 24 HOURS OF THE REPORT OF THE PROBLEM, UNLESS OTHER ARRANGEMENTS ARE MADE WITH THE MANUFACTURER ISSUING THE WARRANTY.

COAXIAL BACKBONE CABLE:

- RG11 COAXIAL CABLE SHALL CONSIST OF A 14 AWG SOLID COPPER CORE QUAD-SHIELDED SOLUTION THAT HAS BEEN SWEPT-TESTED TO 3000MHZ.
- ALL COAXIAL CABLE SHALL BE CATVP (CATV PLENUM CABLE) FOR PLENUM SPACES AS SPECIFIED IN NEC SECTION 820-50.
- ONLY COAXIAL CABLES FROM THE FOLLOWING MANUFACTURERS SHALL BE CONSIDERED:
 - BELDEN - 1153A
 - GEPCO - C3529
 - COMMSCOPE/UNIPRISE - 2287K
 - LIBERTY - RG11-QUAD PL
 - PRE-APPROVED EQUIVALENT
- ALL COAXIAL CABLE SHALL BE CATV (CATV NON-PLENUM CABLE) FOR NON-PLENUM SPACES AS SPECIFIED IN NEC SECTION 820-50.
- ONLY COAXIAL CABLES FROM THE FOLLOWING MANUFACTURERS SHALL BE CONSIDERED:
 - BELDEN - 1617A
 - GEPCO - C5044
 - COMMSCOPE/UNIPRISE - 5940R
 - LIBERTY - RG11-QUAD
 - PRE-APPROVED EQUIVALENT
- THE LVI SHALL REVIEW THE ASSOCIATED PROJECT DRAWINGS AND IDENTIFY ALL CUMULATIVE DB LOSSES OR GAINS THROUGH THE ENTIRE COAXIAL SYSTEM TO DEVELOP A COMPREHENSIVE FRAMEWORK INDICATING TE NEED FOR LINE AMPLIFICATION.
- THE LVI SHALL FURNISH AND INSTALL ALL NECESSARY SPLITTERS, TAPS, DIRECTIONAL COUPLERS, ETC., TO PROVIDE A COMPLETE COAXIAL DISTRIBUTION SYSTEM. DIRECTIONAL COUPLERS, TAPS, SPLITTERS AND COMBINERS, WHERE USED, SHALL MEET THE FOLLOWING REQUIREMENTS:
 - THE LVI SHALL REVIEW THE ASSOCIATED DRAWINGS. IF THE LVI'S PROPOSED SOLUTION PROVIDES BETTER PERFORMANCE THAN THE MINIMAL GUIDELINES PROVIDED, THE LVI MAY REVISE THE QUANTITIES AND PLACEMENT OF COUPLERS, TAPS, SPLITTERS, AND COMBINERS.
 - ALL COMPONENTS SHALL PROVIDE FOR A MINIMUM OF 3000MHZ FREQUENCY RANGE.
 - ALL COMPONENTS SHALL BE MOUNTED SECURELY TO A PLYWOOD WALL WITHIN THE DISTRIBUTED TELECOMMUNICATIONS ROOM - REFER TO DRAWINGS.
 - ALL COMPONENTS SHALL SUPPORT FEMALE F-TYPE CATV CONNECTORS FOR BOTH RF INPUT AND OUTPUTS.
 - TAP VALUES SHALL BE APPROPRIATELY RATED FOR THE ESTIMATED SIGNAL STRENGTH AT THAT POINT OF INSERTION.
 - THUR-LINE LOSSES SHALL BE CALCULATED FOR 3000MHZ FREQUENCIES.
 - ALL COAXIAL BACKBONE RUNS SHALL BE APPROPRIATELY TERMINATED WITH 75-OHM TERMINATORS AS REQUIRED.
- THE LVI SHALL NOT FURNISH OR INSTALL ANY AMPLIFIERS, LINE DISTRIBUTION AMPLIFIERS, OR MULTISWITCHES FOR DISTRIBUTION, THESE SHALL BE PROVIDED BY EITHER THE CATV OR SATV PROVIDER UNDER THE DIRECTION OF THE OWNER.
- F-TYPE CATV CONNECTORS SHALL BE USED, EITHER COMPRESSION OR HIGH-STRENGHT SCREW-ON.
- CONNECTORS SHALL BE RATE TO AT LEAST 3000MHZ.

UTP HORIZONTAL STATION CABLE:

- ALL UTP CABLE SHALL BE CMP (COMMUNICATIONS PLENUM CABLE) FOR PLENUM SPACES OR CMR (COMMUNICATIONS RISER CABLE) FOR RISER SYSTEMS AS SPECIFIED IN NEC SECTION 800-50.
- ALL UTP CABLE SHALL BE FROM THE SAME MANUFACTURER AND BE THE SAME TYPE.
- ALL CATEGORY 6 UTP CABLE AND CONNECTORS SHALL MEET OR EXCEED THE CHANNEL REQUIREMENTS AS DEFINED BY THE LATEST STANDARDS.
- ALL CATEGORY 6A (10GB) UTP CABLE AND CONNECTORS SHALL MEET OR EXCEED THE CHANNEL REQUIREMENTS AS DEFINED BY THE LATEST STANDARDS.
- ONLY UTP CABLES FROM THE FOLLOWING MANUFACTURERS SHALL BE CONSIDERED:
 - BERK-TEK
 - GENERAL CABLE
 - HUBBELL
 - SYSTIMAX/UNIPRISE
- ONLY 8 POSITION, 8 CONDUCTOR (8P8C) CATEGORY 6 AND CATEGORY 6A (10GB) CONNECTORS SHALL BE USED.
- ONLY UTP CONNECTORS FROM THE FOLLOWING MANUFACTURERS SHALL BE CONSIDERED:
 - HUBBELL
 - LEVITON
 - SYSTIMAX/UNIPRISE
- REFER TO THE DRAWINGS FOR CABLE SHEATH COLORS AND JACK ASSIGNMENTS.
 - BLUE CABLES, SECURITY CAMERA CABLES, AND WIRELESS ACCESS POINT CABLES HOME RUN TO THE LOWER LEVEL NETWORK ROOM.
 - ORANGE CABLES HEAD TO THE RADIO ROOM FOR TERMINATION AS DIRECTED BY THE OWNER. PATCH PANEL LAYOUT AND ASSIGNMENTS ARE STILL UNDER REVIEW BY THE OWNER.

COAXIAL HORIZONTAL STATION CABLE:

- RG6 COAXIAL CABLE SHALL CONSIST OF A 18 AWG SOLID COPPER CORE QUAD-SHIELDED SOLUTION THAT HAS BEEN SWEPT-TESTED TO 3000MHZ.
- ALL COAXIAL CABLE SHALL BE CATVP (CATV PLENUM CABLE) FOR PLENUM SPACES AS SPECIFIED IN NEC SECTION 820-50.
- ONLY COAXIAL CABLES FROM THE FOLLOWING MANUFACTURERS SHALL BE CONSIDERED:
 - BELDEN - 1189AP
 - GEPCO - C3525
 - COMMSCOPE/UNIPRISE - 2229V
 - LIBERTY - RG6-QUAD PL
 - PRE-APPROVED EQUIVALENT
- ALL COAXIAL CABLE SHALL BE CATV (CATV NON-PLENUM CABLE) FOR NON-PLENUM SPACES AS SPECIFIED IN NEC SECTION 820-50.
- ONLY COAXIAL CABLES FROM THE FOLLOWING MANUFACTURERS SHALL BE

CONSIDERED:

- BELDEN - 1322R
- GEPCO - C5889
- COMMSCOPE/UNIPRISE - 5740
- LIBERTY - RG6-QUAD
- PRE-APPROVED EQUIVALENT
- ALL STATION RUNS SHALL BE CALCULATED TO ENSURE THAT A SIGNAL STRENGTH OF +5DBMV OR GREATER EXISTS AT THE FAR END COAXIAL CONNECTOR.
- IF THE SIGNAL STRENGTH AT THE CONNECTOR IS EXCESSIVE AND CAUSES SIGNAL DISTORTION, THE LVI SHALL FURNISH AND INSTALL THE APPROPRIATE ATTENUATOR PAD TO REDUCE THE SIGNAL AS CLOSE TO +5DBMV AS POSSIBLE.
- THE LVI MAY USE ADJUSTABLE ATTENUATOR PADS IN THE STANDARD -1DBMV TO -20DBMV RANGE.
- IT IS NOT NECESSARY FOR THE LVI TO PROVIDE ATTENUATOR PADS AT EACH STATION LOCATION - ONLY FOR THOSE OUTLETS THAT EXCEED A STANDARD NTSC TELEVISION MONITOR'S OR FLAT PANEL DISPLAY'S ABILITY TO COMPENSATE.
- F-TYPE CATV CONNECTORS SHALL BE USED, EITHER COMPRESSION OR HIGH-STRENGHT SCREW-ON.
- CONNECTORS SHALL BE RATE TO AT LEAST 3000MHZ.

PATCH CORDS:

- ALL DATA PATCH CORDS WILL BE FURNISHED AND INSTALLED BY THE OWNER. TESTS FOR THE CHANNEL WILL NOT BE REQUIRED.
- FOR ALL FACEPLATES WITH COAXIAL CABLING, THE LVI SHALL FURNISH AND INSTALL ONE (1) 3-FOOT RG59 PATCH CORD.

OWNER-FURNISHED REQUIREMENTS / SPECIFICATIONS FOR FIBER OPTIC AND DATA CABLING

CABLING:

FURNISH AND INSTALL MINIMALLY-COMPLIANT HUBBELL CATEGORY 6 PLENUM CABLING. ALL CABLES AND EQUIPMENT INSTALLED SHALL BE CAPABLE OF SUPPORTING 1GBPS TO THE DEVICE. ALL CABLES SHALL BE TERMINATED AND TESTED. A CABLE REPORT OR SIMILAR REPORT SHALL BE SUPPLIED TO DCIM AND THE PROJECT ENGINEER AT THE END OF INSTALLATION. A MINIMUM OF A 2-METER (FOR ETHERNET), AND 4-METER (FOR FIBER) SERVICE LOOP SHALL BE LEFT IN THE NETWORK ROOM FOR EASE OF CONNECTIVITY. CABLE LADDER TRAY SHALL BE USED IN THE NETWORK CLOSET FOR THE CABLE RUNS; ALL OTHER RUNS SHALL BE RUN ACCORDING TO ALL APPLICABLE CODES. CABLES AND KEYSTONE JACKS SHALL BE BLUE UNLESS OTHERWISE SPECIFIED. ALL KEYSTONE/PUNCH DOWN BLOCKS SHALL USE THE T568B STANDARD.

IN THE EOC, THE CONTRACTOR SHALL PROVIDE FOR A FEMALE RJ45 KEYSTONE CONNECTION IN THE RETRACTABLE LID (CUBBY) WITHIN THE TABLE CUBBIES (CUBBIES AND TABLE BY OTHERS. PROVIDE A 2-METER CONNECTION FROM THE CUBBY TO THE FLOOR PORT IN THE INSTALLED RAISED-FLOOR BOX, IN ADDITION TO THE STANDARD HORIZONTAL RUN TO THE DATA ROOM AND PATCH CORD TO THE DEVICE.

OPTICAL FIBER:

ALL OPTICAL FIBER SHALL BE OS2, BY EITHER CORNING, COMMSCOPE, OR OCC, CONSISTING OF TWO-STRAND FROM THE NETWORK ROOM FIBER PANEL TO THE RADIO/ANTENNA ROOM FIBER PANEL WITH LC UPC CONNECTORS. OPTICAL FIBER FROM THE STREET WILL BE PROVIDED FOR BY OTHERS AND CONNECTED TO THE NETWORK ROOM FIBER PANEL.

PATCH PANELS:

THE PATCH PANELS IN THE NETWORK CLOSET SHALL BE CAPABLE OF PLUGGING IN CAT 6A CABLES. BY DEFAULT, 2U 48 PORT PATCH PANELS ARE EXPECTED UNLESS OTHERWISE SPECIFIED. ANY AND ALL FIBER PANELS SHALL BE CLEARFIELD PANELS. ALL CAT6/6A PANELS SHALL BE HUBBELL PANELS. A MINIMUM OF 1U SPACING BETWEEN PATCH PANELS (PREFERRED 2U) IS REQUIRED.

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DANE COUNTY EMERGENCY MANAGEMENT REMODEL
 5415 KING JAMES WAY FITCHBURG, WISCONSIN

ISSUE RECORD		
1	ISSUE FOR BD	08-03-21

CHECKED BY: TFT
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 DATE: 01-04-21
 PROJECT NUMBER: 2020-001

TELECOM REQUIREMENTS
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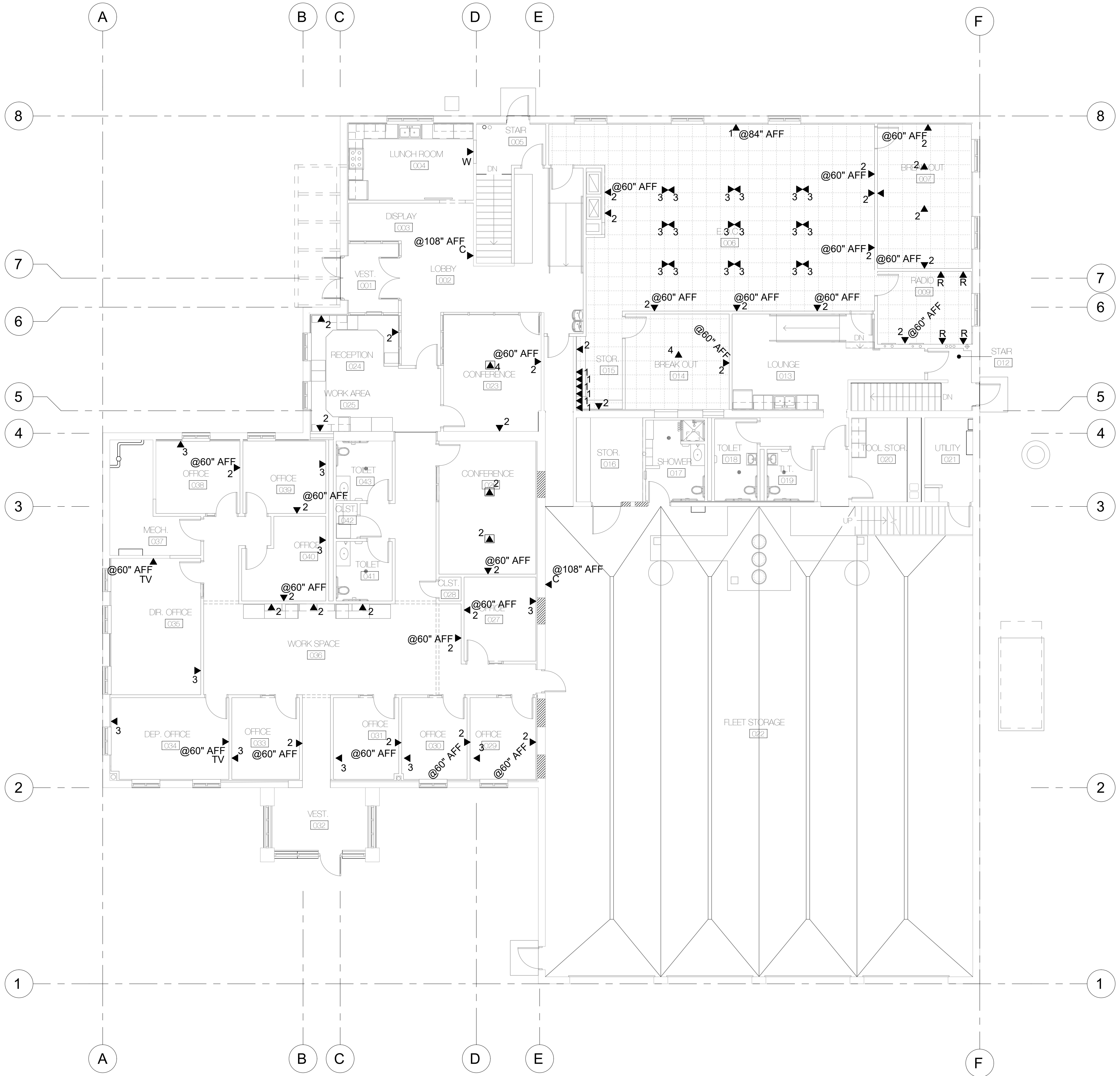
DANE COUNTY EMERGENCY
 MANAGEMENT REMODEL
 5415 KING JAVES WAY
 FITCHBURG, WISCONSIN

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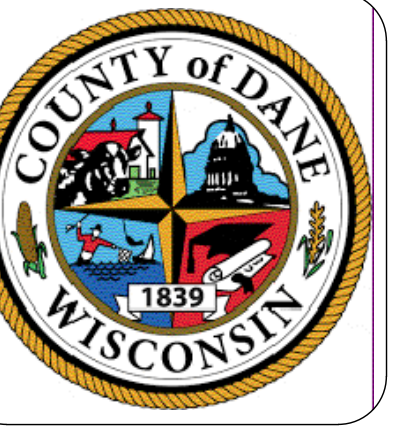
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1	ISSUE FOR BD	08-01-21

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DATE	01-04-21
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FIRST FLOOR
 COMMUNICATIONS
 PLAN
 T1.0

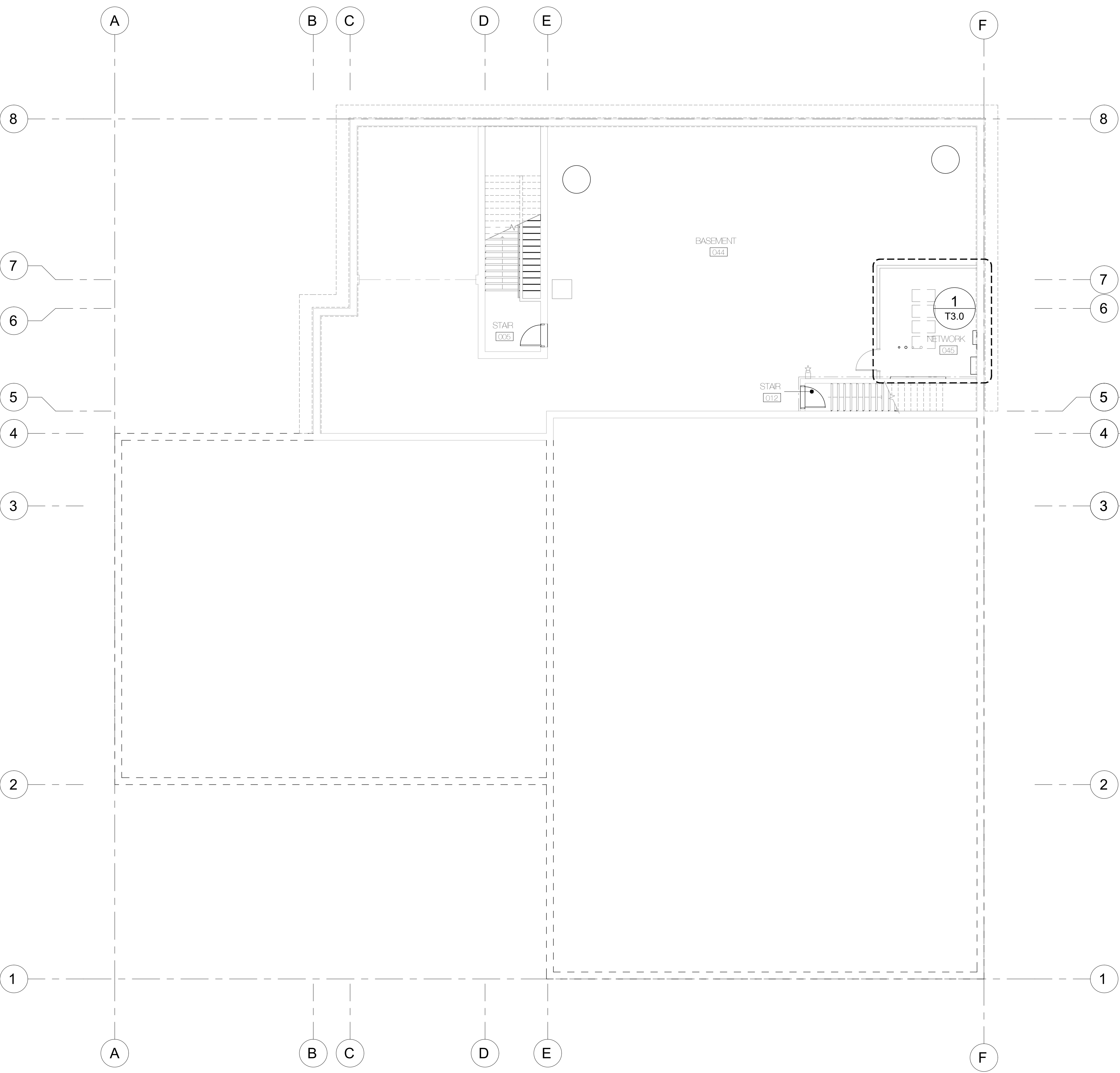


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DANE COUNTY EMERGENCY
 MANAGEMENT REMODEL
 541.5 KING JAVES WAY
 FITCHBURG, WISCONSIN

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1 MEZZANINE COMMUNICATIONS PLAN
 1/8"=1'-0"

1 BASEMENT COMMUNICATIONS PLAN
 1/8"=1'-0"

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 2020-001

BASEMENT &
 MEZZANINE
 COMMUNICATION
 PLAN
 T1.1

SENTINEL
 2550 WARRENVILLE ROAD
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Bicsi
 REGISTERED COMMUNICATIONS DESIGNER
 EXPIRES 12/31/23
 Regis. No. 119867

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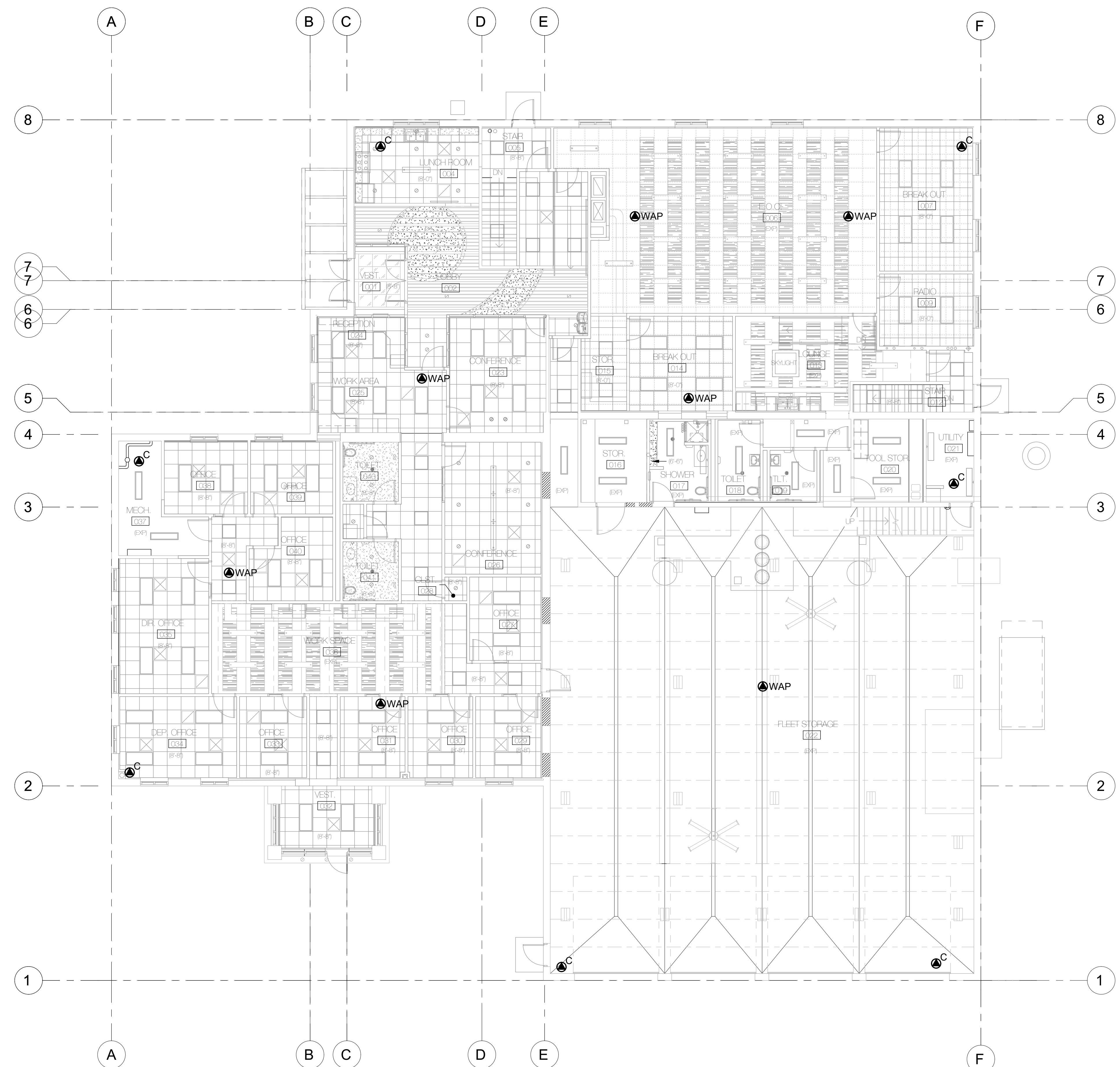
DANE COUNTY EMERGENCY MANAGEMENT REMODEL
 541.5 KING JAVES WAY
 FITCHBURG, WISCONSIN

ISSUE RECORD

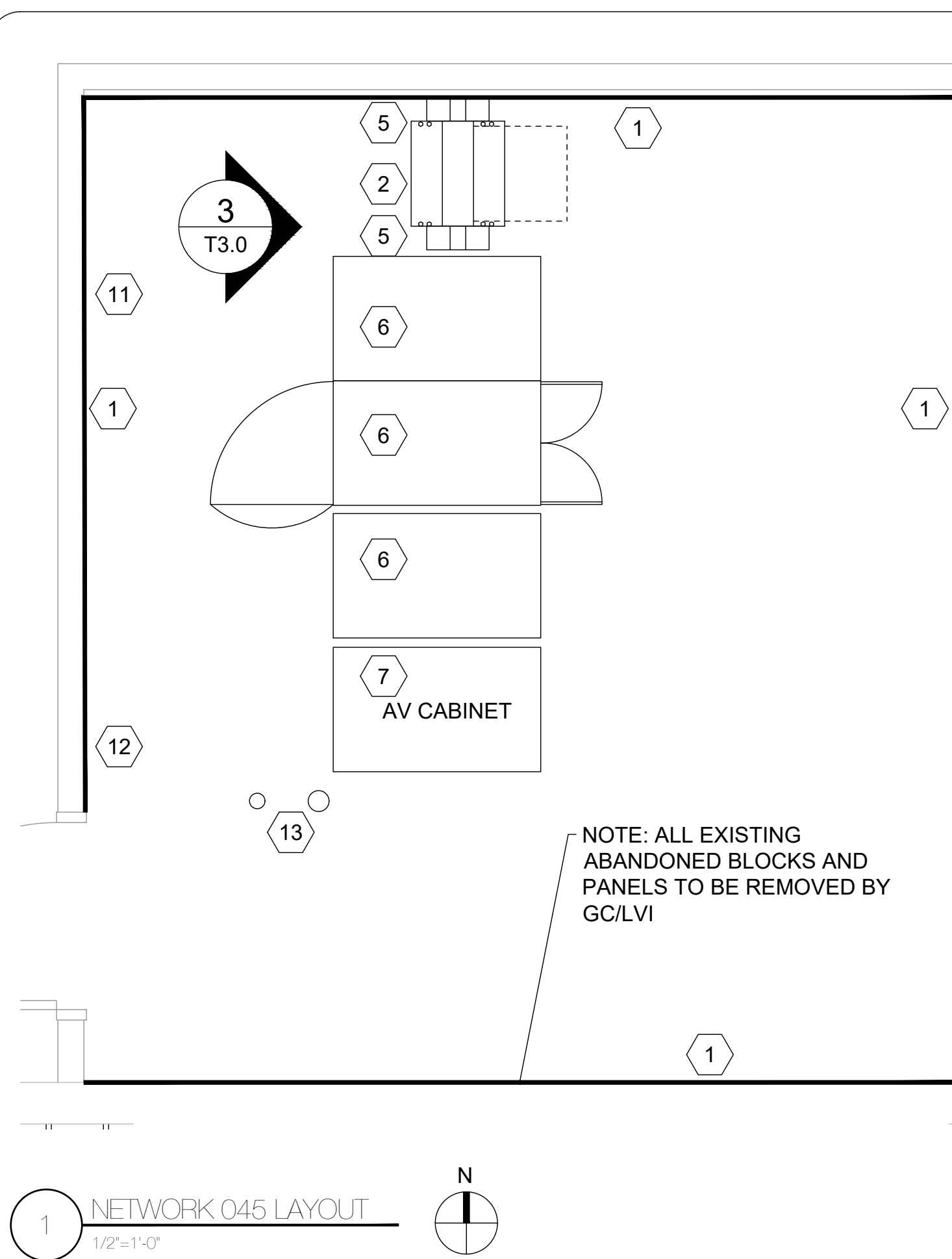
1	ISSUE FOR BD	06-01-21

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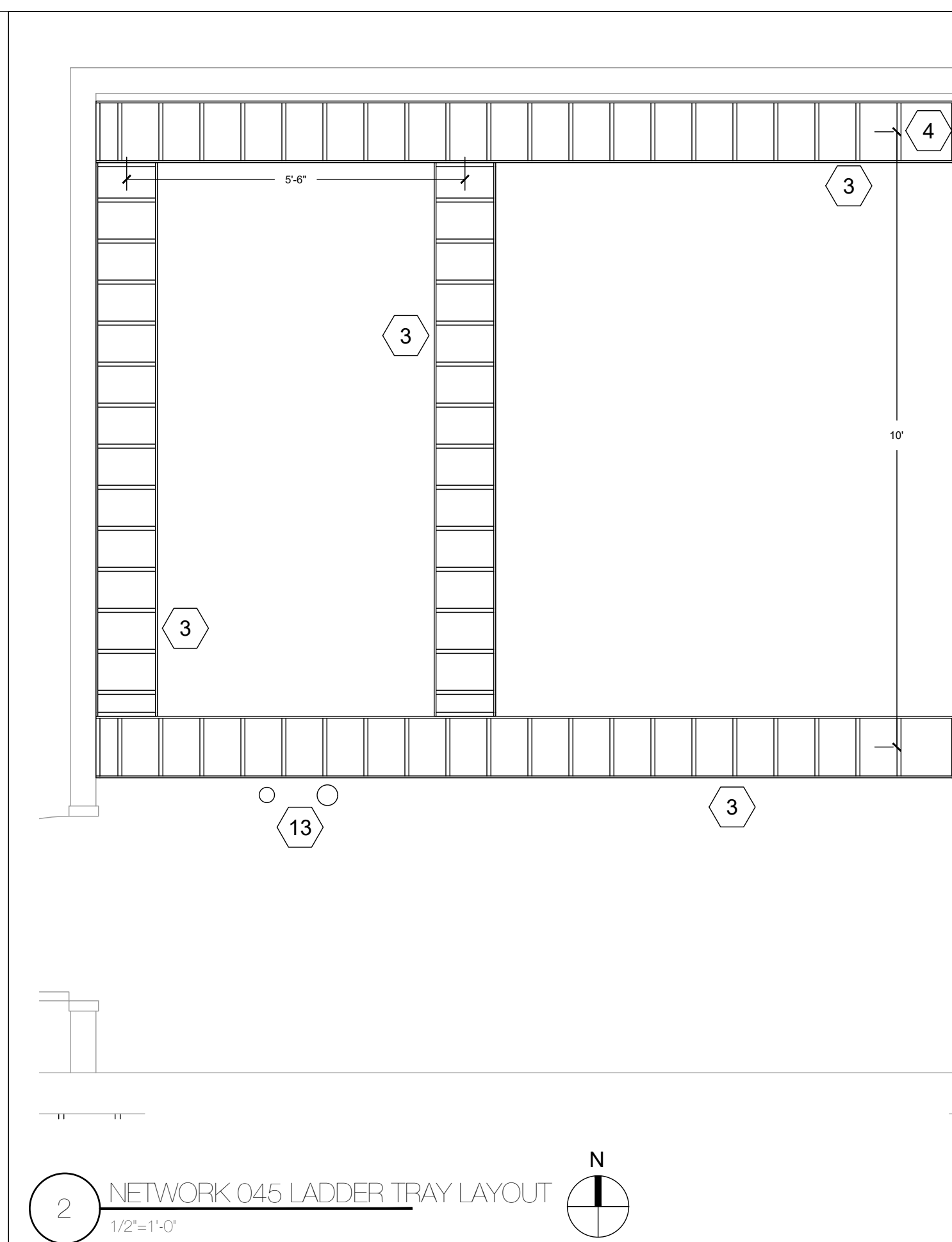
FIRST FLOOR COMMUNICATIONS REFLECTED CEILING PLAN
 T2.0



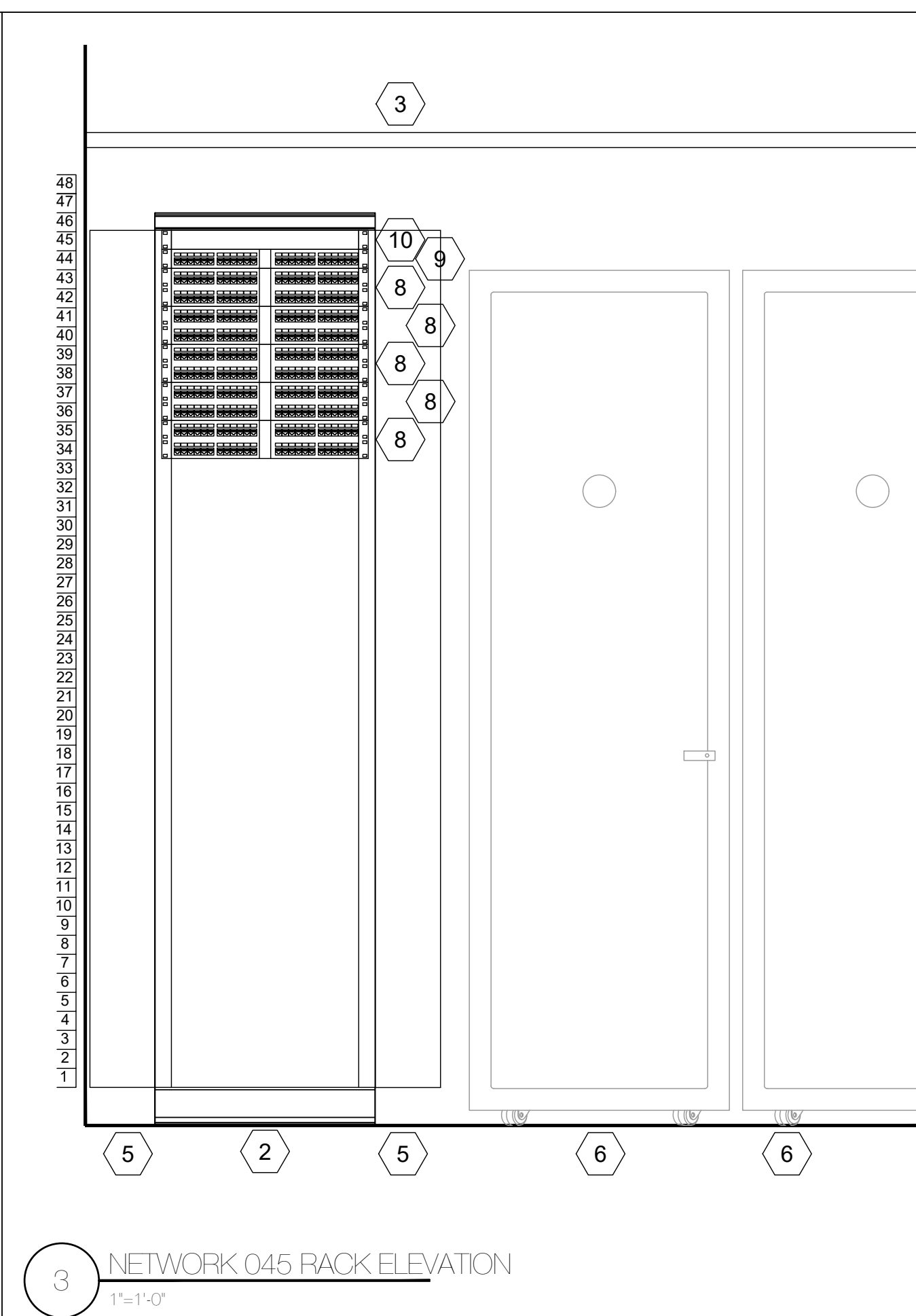
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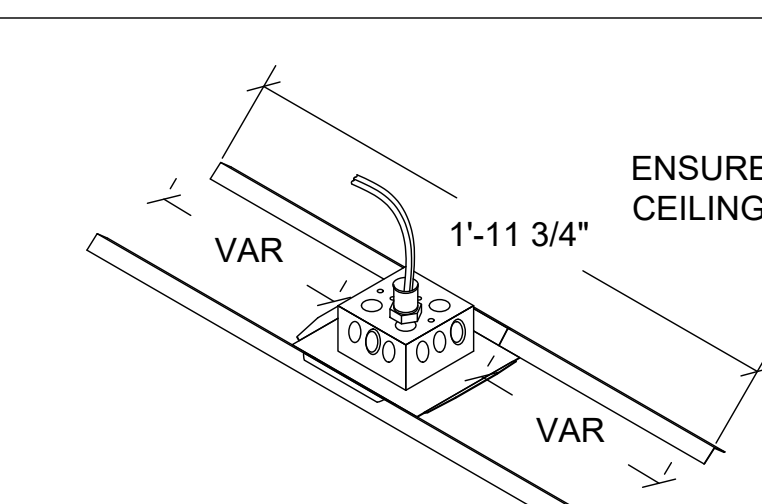
1 NETWORK 045 LAYOUT
1/2"=1'-0"



2 NETWORK 045 LADDER TRAY LAYOUT
1/2"=1'-0"



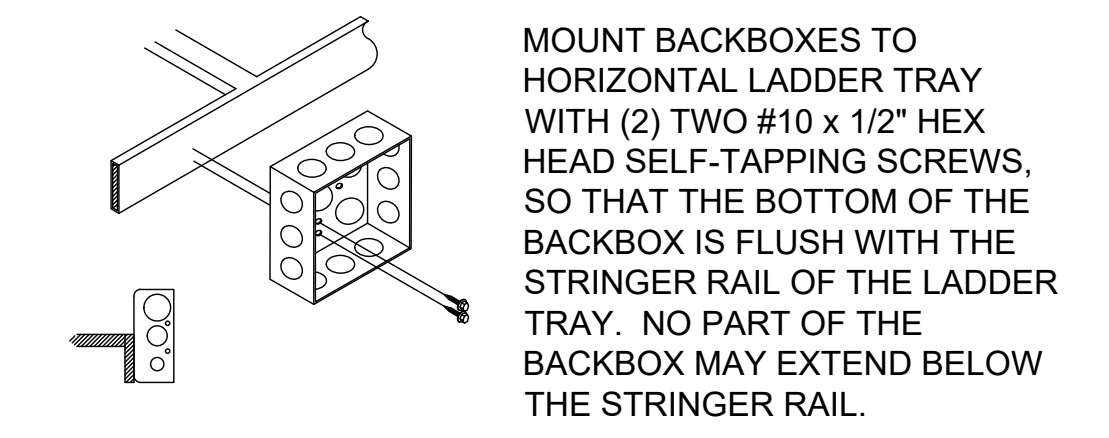
3 NETWORK 045 RACK ELEVATION
1"=1'-0"



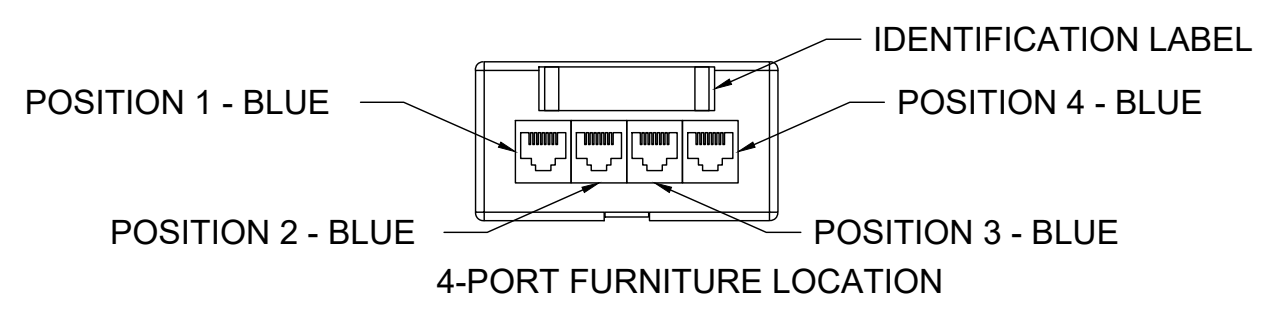
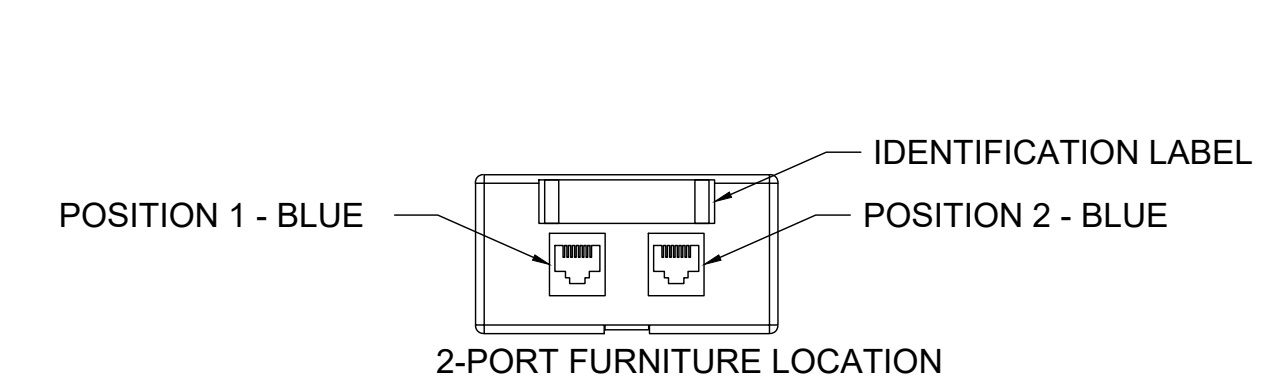
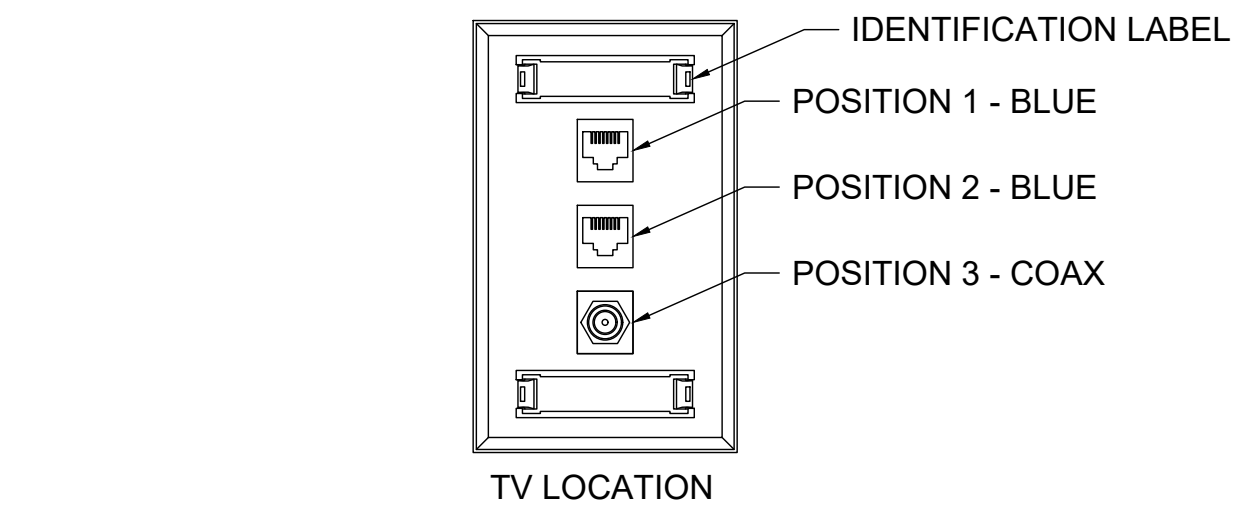
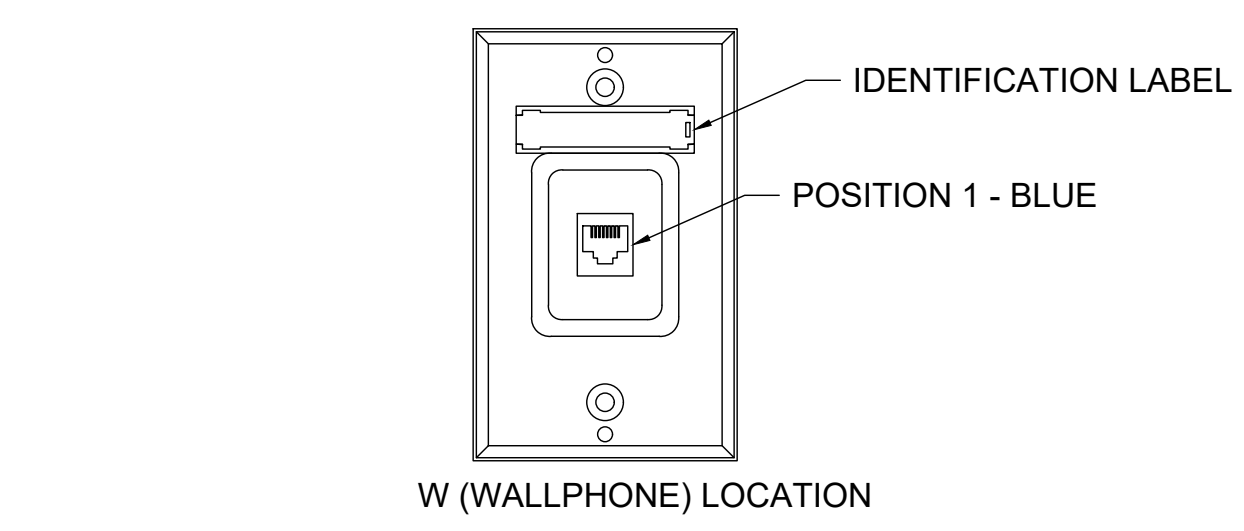
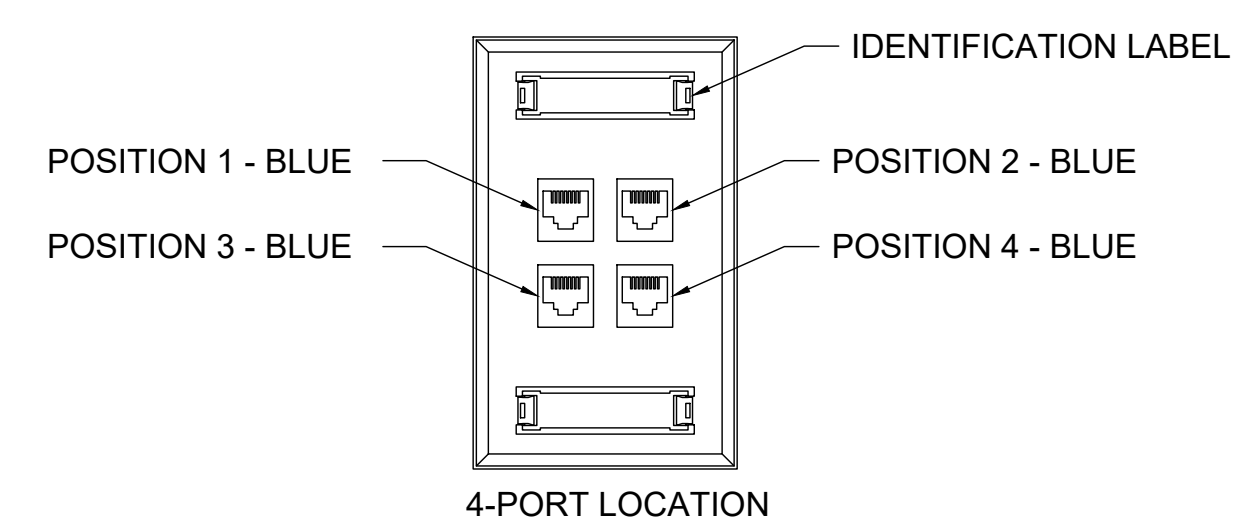
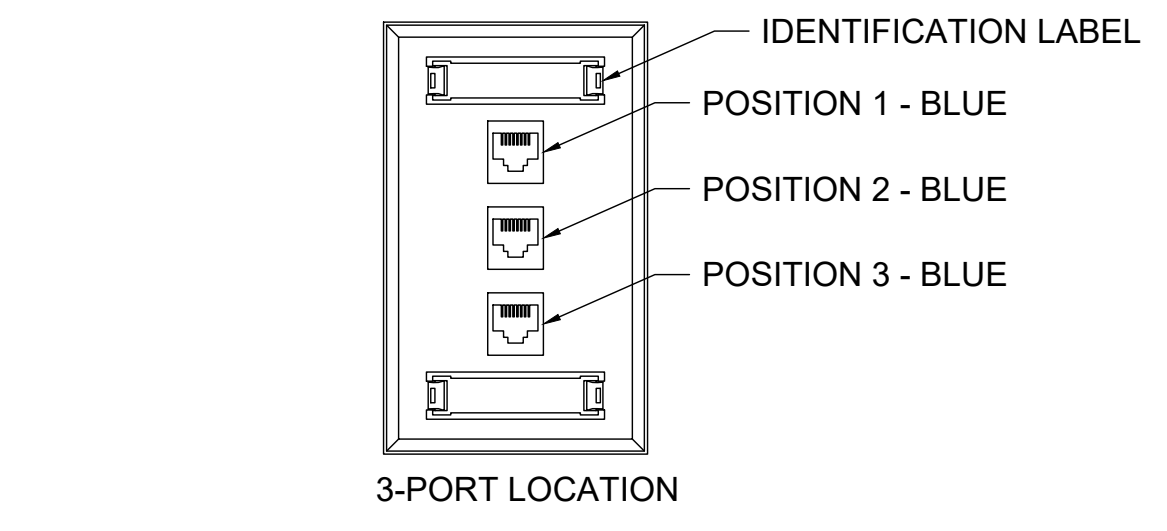
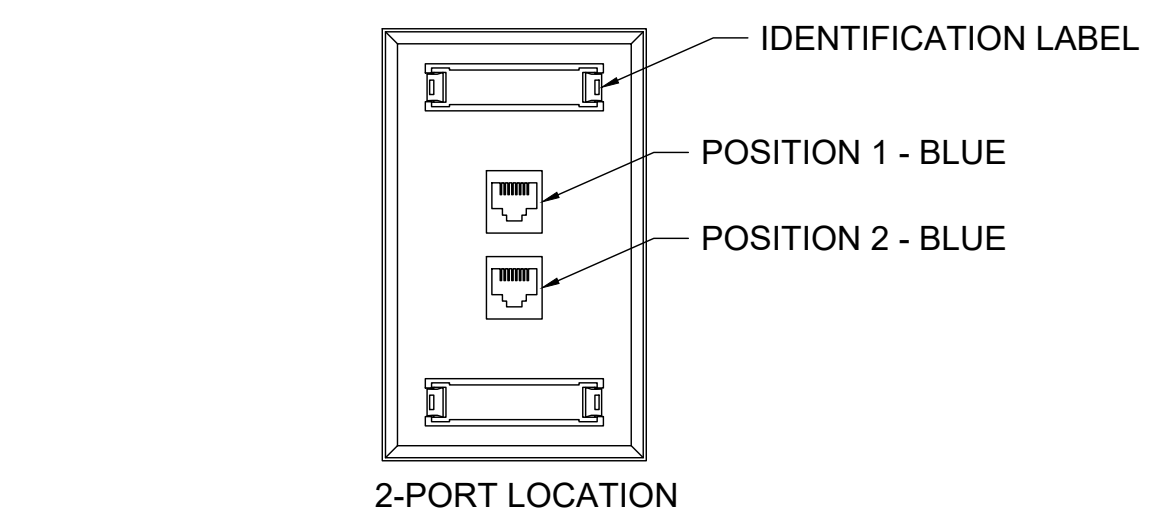
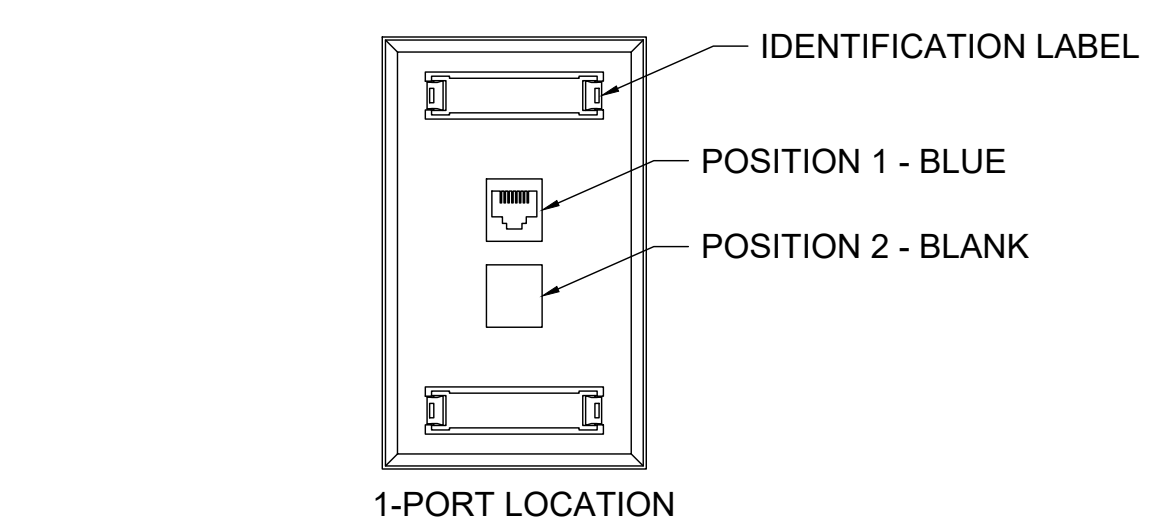
FURNISH AND INSTALL QUAM SSB-1900 DEEP ELECTRICAL BOX SUPPORT BRIDGE. ADJUST BOX AS REQUIRED LEFT-RIGHT AND FORWARD-BACK TO POSITION BOX IN FINAL POSITION. USE PENCIL ROD TO SECURE BOX TO PERMANENT STRUCTURE (NOT THE CEILING GRID) WHEN IN FINAL POSITION. COVER WITH BLANK FACEPLATE OR APPROPRIATE LOW VOLTAGE FACEPLATE AS INDICATED IN THE ASSOCIATED PROJECT DRAWINGS.

PROTECT CABLING FROM ENTERING BACKBOX BY USING 3/4" BUSHING THROUGH APPROPRIATE KNOCKOUT.

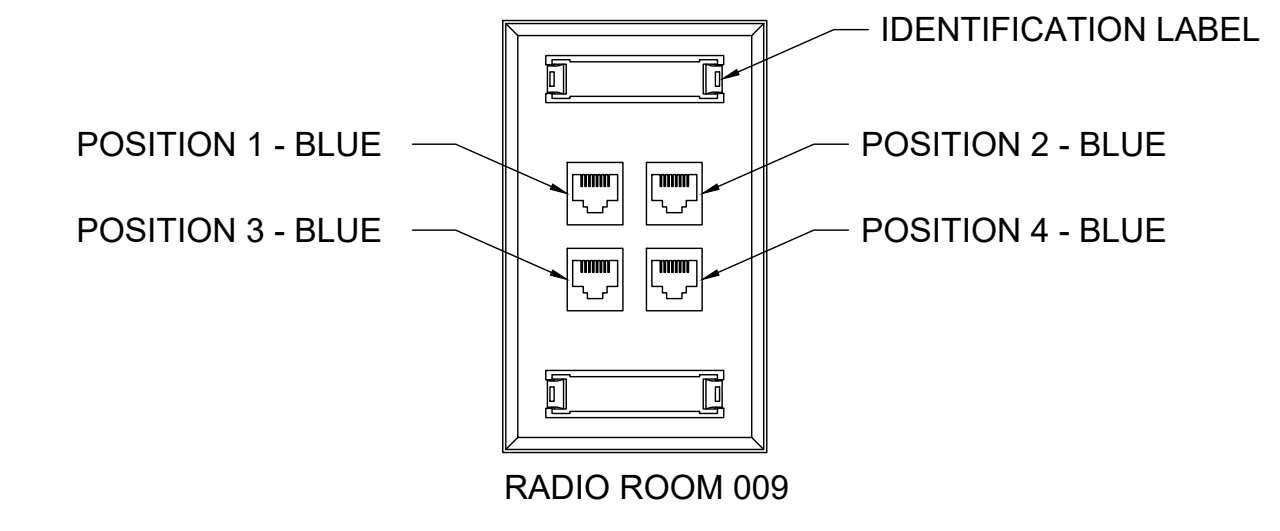
4 WIRELESS ACCESS POINT LOCATIONS



5 MOUNTING POWER BACK BOXES TO LADDER TRAY



NOTE: FOR ALL FLOOR BOX, POKE-THRU, AND TABLE TOP LOCATIONS THE LVI, SHALL ADHERE TO THE POSITION FOR THE CORRESPONDING WALL LOCATION UNLESS NOTED OTHERWISE. IT IS THE RESPONSIBILITY OF THE LVI TO COORDINATE WITH THE EC AND/OR THE FURNITURE VENDOR TO DETERMINE WHAT FLOOR BOX, POKE-THRU, OR TABLE TOP BOX IS BEING PROVIDED FOR LVI USE.



6 COMMUNICATIONS FACEPLATES
6"=1'-0"

DRAWING KEYNOTES:

- 1 3/4" FIRE-RATED (OR PAINTED WITH A MINIMUM OF THREE (3) COATS FIRE RETARDANT PAINT) A-C GRADE VOID FREE PLYWOOD SHEETING SHALL BE INSTALLED ON THE ENTIRE LENGTH OF THIS WALL. THE PLYWOOD SHALL BE MOUNTED SO THAT SUCH THAT THE TOP OF THE PLYWOOD IS 8' - 6" AFF AND THE BOTTOM EDGE OF THE PLYWOOD IS 6" AFF.
- 2 CABLING INSTALLATION CONTRACTOR SUPPLIED AND INSTALLED 2-POST 19-INCH OPEN RELAY RACK
- 3 CABLING INSTALLATION CONTRACTOR SUPPLIED AND INSTALLED 12-INCH WIDE LADDER CABLE TRAY. TRAY TO BE MOUNTED SUCH THAT THE BOTTOM OF THE TRAY IS 7- FEET, 6-INCHES AFF.
- 4 TELECOMMUNICATIONS MAIN GROUNDING BUSBAR. SEE DRAWING E1.0 FOR DETAILS AND COORDINATE WITH EC PRIOR TO INSTALLATION.
- 5 CABLING INSTALLATION CONTRACTOR SUPPLIED AND INSTALLED 6-INCH WIDE VERTICAL CABLE MANAGER. REFER TO OWNER SPECIFICATIONS FOR EXACT REQUIREMENTS.
- 6 OWNER-FURNISHED AND INSTALLED CABINET OR RACK. SHOWN FOR REFERENCE ONLY.
- 7 AVIC-FURNISHED-AND-INSTALLED AUDIOVISUAL HEAD END CABINET FOR EOC AND VIDEO DISTRIBUTION SYSTEMS.
- 8 CABLING INSTALLATION CONTRACTOR SUPPLIED AND INSTALLED CATEGORY 6 2U 48-PORT PATCH PANEL TO SUPPORT TERMINATION OF HORIZONTAL STATION CABLING. REFER TO OWNER SPECIFICATIONS FOR EXACT REQUIREMENTS.
- 9 CABLING INSTALLATION CONTRACTOR SUPPLIED AND INSTALLED CATEGORY 6A 1U 24-PORT PATCH PANEL TO SUPPORT WIRELESS ACCESS POINT CABLING CONNECTIVITY REQUIREMENTS. REFER TO OWNER SPECIFICATIONS FOR EXACT REQUIREMENTS.
- 10 CABLING INSTALLATION CONTRACTOR SUPPLIED AND INSTALLED 1U FIBER OPTIC TERMINATION SHELF TO SUPPORT TERMINATION OF FIBER BACKBONE CABLING. REFER TO OWNER SPECIFICATIONS FOR EXACT REQUIREMENTS.
- 11 LOCATION OF SIC-FURNISHED-AND-INSTALLED KEYSKAN DATA GATHERING PANEL AND POWER SUPPLIES.
- 12 WALL-FIELD LOCATION RESERVED FOR CABLE TELEVISION SPLITTERS/TAPS (BY CATV SERVICE PROVIDER).
- 13 GENERAL LOCATION OF NEW CORES THROUGH THE EXISTING PRE-CAST PLANK FLOOR. SEE DRAWING PL-1 AND VERIFY WITH OWNER PRIOR TO ANY INSTALLATION.



DANE COUNTY EMERGENCY MANAGEMENT REMODEL
5415 KING JAMES WAY
FITCHBURG, WISCONSIN

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TECHNOLOGY DETAILS
T3.0



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COMMUNICATIONS & LOW VOLTAGE CONDUIT REQUIREMENTS:

ALL CONDUIT RUNS SHALL BE 3/4" EMT, UNLESS NOTED OTHERWISE.

ALL BOXES SHALL BE A MINIMUM OF 4-11/16" x 4-11/16" x 2-1/8" DEEP BOX WITH A SINGLE GANG TRIM RING MOUNTED FLUSH TO THE WALL SURFACE, UNLESS NOTED OTHERWISE.

ALL MOUNTING HEIGHTS ARE TO THE CENTERLINE OF THE BACKBOX UNLESS NOTED OTHERWISE.

ALL CONDUIT SHALL BE ROUTED ABOVE CEILINGS, BELOW FLOORS, OR STUBBED UP WITHIN WALLS; NO CONDUIT SHALL BE EXPOSED UNLESS APPROVED BY THE ARCHITECT OR OWNER.

ALL CONDUITS IN WALLS SHALL STUB UP AT LEAST 6-INCHES ABOVE THE FINISHED CEILING. ALL STUBS SHALL BE REAMED AND BUSHED AT BOTH ENDS.

ALL CONDUIT PENETRATIONS THROUGH FIRE-RATED PARTITIONS SHALL BE SEALED AS REQUIRED BY CODE. ALL BACKBOXES MOUNTED WITHIN FIRE-RATED PARTITIONS SHALL MEET THE FIRE RATING OF THE PARTITION AS REQUIRED BY CODE.

PROVIDE PULL STRINGS IN ALL CONDUIT RUNS LONGER THAN 10-FEET.

PROVIDE PULL BOXES EVERY 100 LINEAR FEET OR AFTER TWO SUCCESSIVE 90° BENDS.

ALL JUNCTION AND PULL BOXES SHALL BE FURNISHED WITH ACCOMPANYING BLANK COVER PLATE.

ALL BOXES IN EXTERIOR LOCATIONS SHALL BE WEATHERPROOF AND WATERPROOF.

INSTRUCTIONS SHOWN IN DIMENSION LINES, DETAILS, ELEVATIONS, AND PLANS (IN THIS ORDER) TAKE PRECEDENCE OVER INSTRUCTIONS SHOWN IN LEGENDS.

CONDUIT AND CABLE ROUTING SHOWN IS SCHEMATIC AND IS NOT INTENDED TO REPRESENT INSTALLATION PATHS OR DISTANCES. ACTUAL ROUTING AND BOX LOCATIONS SHALL BE FIELD-VERIFIED FOR FEASIBILITY AND COORDINATED WITH OTHER DISCIPLINES BY THE INSTALLATION CONTRACTOR.

HORIZONTAL CONDUITS INTO EACH TECHNOLOGY AREA FROM THE EXTERIOR CEILING PLENUM ARE REQUIRED FOR CABLE ACCESS INTO THE ROOM FROM ALL LOCATIONS THROUGHOUT THE SPACE. THE ENDS OF THE CONDUITS SHALL BE REAMED AND BUSHED, AND EXTEND A MINIMUM OF 2-INCHES INTO THE ROOM.

CABLE O.D. (")	CONDUIT TRADE SIZE AND MAXIMUM QUANTITIES OF CABLES OF THAT O.D.						
	3/4"	1"	1-1/4"	1-1/2"	2"	3"	4"
0.16	10	19	33	46	75	200	333
0.18	8	13	23	32	52	139	231
0.20	6	11	19	25	42	112	187
0.25	4	6	12	16	27	71	120
0.27	3	6	10	14	22	60	102
0.30	2	4	8	10	18	48	82
0.33	1	4	6	8	14	40	68
0.35	1	3	6	8	12	36	60
0.38	1	2	5	7	10	30	50
0.40	1	2	4	6	10	28	46
0.45	1	1	3	5	8	22	38
0.50	1	1	2	4	6	16	30
0.55	1	1	1	3	5	14	24
0.60	N/A	1	1	2	4	12	20
0.67	N/A	1	1	1	3	10	16
0.70	N/A	1	1	1	3	8	14
0.75	N/A	N/A	1	1	2	7	12

NUMBER AND SIZE OF CONDUITS	PULL BOX SIZE (W x L x H IN INCHES)	FOR EACH ADDITIONAL CONDUIT ENTERING THE PULL BOX, INCREASE THE WIDTH
ONE 1-INCH	4 X 16 X 3	2 INCHES
ONE 1-1/4-INCH	6 X 20 X 3	3 INCHES
ONE 1-1/2-INCH	8 X 27 X 4	4 INCHES
ONE 2-INCH	8 X 36 X 4	5 INCHES
ONE 4-INCH	15 X 60 X 8	8 INCHES

CONDUIT DIAMETER	MINIMUM BEND RADIUS
1-INCH	4 INCHES
1-1/4-INCH	8 INCHES
1-1/2-INCH	9 INCHES
2-INCH	12 INCHES
4-INCH	40 INCHES

TELECOMMUNICATIONS GROUNDING NOTES:

- REFER TO E-SERIES DRAWINGS FOR PANEL SCHEDULING INFORMATION AND GROUNDING ELECTRODE SYSTEM DATA.
- A SINGLE GROUND SOURCE SHALL BE PROVIDED FOR GROUNDING ALL RACKS, TRAYS AND METAL FRAMES IN THE MAIN DISTRIBUTION FRAME. A TELECOMMUNICATIONS MAIN GROUNDING BUSBAR (TMGB) SHALL BE PROVIDED AND INSTALLED ON THE MAIN CROSS-CONNECT WALL AT A HEIGHT OF 8-FEET AFF. THE TMGB SHALL CONSIST AT A MINIMUM OF A PREDRILLED COPPER BUSBAR WITH HOLES FOR USE WITH STANDARD-SIZED LUGS, AND HAVE MINIMUM DIMENSIONS OF 1/4-INCH THICK BY 4-INCHES WIDE WITH A MINIMUM OF FORTY-EIGHT (48) CONNECTION POINTS. THE TMGB SHALL BE DIRECTLY BONDED TO THE ELECTRICAL SERVICE GROUND AND TO THE BUILDING STEEL.
- A TELECOMMUNICATIONS GROUNDING BUSBAR (TGB) SHALL BE INSTALLED IN ANY/ALL TELECOM ROOMS. THE TGB SHALL BE MOUNTED ON THE HORIZONTAL CROSS-CONNECT WALL AT A HEIGHT OF 8-FEET AFF. THE TGB SHALL CONSIST OF A PREDRILLED COPPER BUSBAR WITH HOLES FOR USE WITH STANDARD-SIZED LUGS, AND HAVE MINIMUM DIMENSIONS OF 1/4-INCH THICK BY 2-INCHES WIDE WITH A MINIMUM OF TWELVE (12) CONNECTION POINTS.
- A GROUND CABLE FROM THE TMGB TO EACH TGB SHALL BE INSTALLED TO CREATE A FORMAL TELECOMMUNICATIONS BONDING BACKBONE (TBB). THE TBB MAY NOT BE DAISY-CHAINED, BUT CAN BE TAPPED-OFF USING A SHORT BONDING CONDUCTOR. BARE COPPER CABLING IS ACCEPTABLE. THE TBB SHALL BE SIZED BASED ON THE LENGTH OF THE CABLE RUN.
- THE CONTRACTOR SHALL PROVIDE AND INSTALL A MINIMUM #6 AWG GROUND WIRE FROM EACH OPEN RELAY RACK AND CABLE TRAY TO THE MAIN TELECOMMUNICATIONS GROUNDING BUSBAR OR TELECOMMUNICATIONS GROUNDING BUSBAR.
- ANY PENETRATION THROUGH A FIRE-RATED WALL SHALL BE PROPERLY FIRE-STOPPED BY THE CONTRACTOR WITH THE APPROPRIATE FIRE-STOP MATERIAL PER APPLICABLE BUILDING AND ELECTRICAL CODES.
- THE CONTRACTOR SHALL COORDINATE GROUND CABLE INSTALLATION WITH THE ARCHITECTS, MEP ENGINEERS AND THE OTHER TRADES ON THE PROJECT.
- THE CONTRACTOR SHALL ASSUME RESPONSIBILITY FOR ANY DAMAGE TO ANY COMPONENT OF THE TELECOMMUNICATIONS GROUNDING SYSTEM DURING INSTALLATION.
- THE CONTRACTOR SHALL VERIFY THAT THE SIZE OF THE TMGB AND THE TGB ARE ADEQUATE TO SUPPORT THE TELECOMMUNICATIONS GROUNDING REQUIREMENTS FOR THE PROJECT.

ANSI/TIA-607-B CONDUCTOR SIZES	
LENGTH IN FEET	CONDUCTOR SIZE (AWG)
LESS THAN 13	6
14 - 20	4
21 - 26	3
27 - 33	2
34 - 41	1
42 - 52	1/0
53 - 66	2/0
67 - 84	3/0
85 - 105	4/0
106 - 125	250 KCMIL
126 - 150	300 KCMIL
151 - 175	350 KCMIL
176 - 250	500 KCMIL
251 - 300	600 KCMIL
GREATER THAN 301	750 KCMIL

ABBREVIATIONS USED IN THESE DRAWINGS:

AVIC = AUDIOVISUAL CABLING CONTRACTOR
 LVI = LOW VOLTAGE INSTALLER
 EC = ELECTRICAL INSTALLATION CONTRACTOR
 PIC = PAGING INSTALLATION CONTRACTOR
 SIC = SECURITY INSTALLATION CONTRACTOR

NOTE: THE INSTALLATION CONTRACTOR SHALL COORDINATE WITH THE OWNER, ARCHITECT AND GENERAL CONTRACTOR FOR EXACT MOUNTING LOCATIONS PRIOR TO INSTALLATION OF ANY COMPONENTS.

NOTE: ALL RADIO TOWER, RADIO ANTENNA, AND RELATED CABLING BY OWNER.

NOTE: THE GENERAL CONTRACTOR SHALL SCHEDULE A SITE MEETING WITH THE OWNER AND THE RESPECTIVE LOW VOLTAGE AND ELECTRICAL CONTRACTORS TO REVIEW ALL LOCATIONS OF JUNCTION BOXES PRIOR TO INSTALLATION

- ▲ X MOUNTING INFORMATION, WHERE X =
- A ABOVE CEILING
 - D TO THE DESK
 - F FLUSH-MOUNTED
 - H HIDDEN UNDER WORKSURFACE
 - M TO THE MULLION
 - R TO THE RACK ITSELF
 - S PLACED ON THE WORKSURFACE

- AV X MOUNTING INFORMATION, WHERE X =
- A ABOVE CEILING
 - D TO THE DESK
 - F FLUSH-MOUNTED
 - H HIDDEN UNDER WORKSURFACE
 - M TO THE MULLION
 - P TO THE PODIUM
 - R TO THE RACK ITSELF
 - S PLACED ON THE WORKSURFACE
 - TX TRANSMITTER
 - RX RECEIVER

AUDIOVISUAL LEGEND:

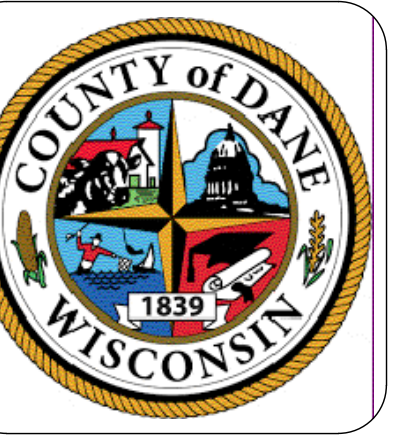
- AVHE AUDIOVISUAL HEAD END LOCATION CONSISTING OF AV RACK AND OTHER COMPONENTS AS SPECIFIED HEREIN FOR THE HEAD END.
- AV AUDIOVISUAL INTERFACE ON FLOOR, CONSISTING OF HDMI INPUT. REFER TO SPECIFICATIONS FOR DETAILS.
- AV F AUDIOVISUAL INTERFACE ON TABLE, CONSISTING OF HDMI JACK (BY AVIC) IN FURNITURE FITTING (BY FURNITURE VENDOR). REFER TO REQUIREMENTS FOR DETAILS.
- AV AUDIOVISUAL INTERFACE WALL-MOUNTED AT STANDARD BUILDING HEIGHT, CONSISTING OF HDMI JACK IN DECORA FITTING. REFER TO SPECIFICATIONS FOR DETAILS. EC TO FURNISH AND INSTALL 4-11/16" X 4-11/16" X 3" DEEP (11-B) BOX WITH SINGLE-GANG TRIM RING.
- AVP AUDIOVISUAL PASS-THROUGH, WALL-MOUNTED AT STANDARD BUILDING HEIGHT UNLESS NOTED OTHERWISE. EC TO FURNISH AND INSTALL 4-11/16" X 4-11/16" X 3" DEEP (11-B) BOX WITH TWO-GANG TRIM RING. AVIC TO FURNISH AND INSTALL TWO (2) LEVITON DECORA 41075-DBW BRUSHED INSERTS OR EQUIVALENT. CONFIRM FACEPLATE COLOR WITH ARCHITECT PRIOR TO ORDERING.
- AVX FLOOR-MOUNTED AUDIOVISUAL TRANSMITTER; REFER TO REQUIREMENTS AND DETAIL DRAWINGS. EC TO FURNISH FLOORBOX OR POKETHRU OPENING AS DESCRIBED HEREIN. MAY BE INCORPORATED WITH POWER OR DATA; AV CABLING REQUIRES SEPARATE CONDUIT FROM DATA CABLING.
- CAM CAMERA AND WALL-MOUNTED PASS-THROUGH BACKBOX FOR VIDEO CAMERA. AVIC TO FURNISH AND INSTALL WHITE QSC Q-SYS PTZ 12X72 CAMERA AND SHELF BRACKET. EC TO FURNISH AND INSTALL 4-11/16" X 4-11/16" X 3" DEEP (11-B) BOX WITH TWO-GANG TRIM RING AT HEIGHT INDICATED ON DRAWING. AVIC TO FURNISH AND INSTALL LEVITON DECORA 41075-DBW OR EQUIVALENT. CONFIRM FACEPLATE COLOR WITH ARCHITECT PRIOR TO ORDERING. AVIC TO FURNISH AND INSTALL CAMERA, MOUNT, WIRING, AND PASS-THROUGH FACEPLATE. REFER TO REQUIREMENTS FOR FACEPLATE AND CAMERA DETAILS.
- CM SHURE MXA 910 2' X 2' CEILING MICROPHONE ON PENDANT MOUNT. AVIC TO FURNISH AND INSTALL MICROPHONE, MOUNT, AND ASSOCIATED WIRING.
- J JUNCTION BOX MOUNTED ABOVE THE FINISHED CEILING. EC TO FURNISH AND INSTALL 4-11/16" X 4-11/16" X 3" DEEP (11-B) BOX WITH COVER. AVIC TO FURNISH AND INSTALL ALL WIRING.
- J EC TO FURNISH AND INSTALL 4-11/16" X 4-11/16" X 3" DEEP (11-B) BOX WITH COVER AT STANDARD BUILDING HEIGHT U.N.O. AVIC TO FURNISH AND INSTALL ALL WIRING.
- S CEILING SPEAKER LOCATION
- TX AUDIOVISUAL TRNSMITTER ON FLOOR, CONNECT HDMI INPUT FROM TABLE INTO TRANSMITTER AND CONNECT TRANSMITTER TO LAN. REFER TO REQUIREMENTS FOR DETAILS.
- STUB DOWN
- STUB UP

- 1 49-INCH (DIAGONAL) FLAT PANEL DISPLAY MOUNTED TO WALL (FURNISHED BY OWNER)
- 2 65-INCH (DIAGONAL) FLAT PANEL DISPLAY MOUNTED TO WALL (FURNISHED BY OWNER)
- 3 85-INCH (DIAGONAL) FLAT PANEL DISPLAY MOUNTED TO WALL (FURNISHED BY OWNER)
- 4 SOUNDBAR AT THIS LOCATOIN
- 5 CRESTRON GATEWAY RECEIVER AND RF RECEIVER FOR WIRELESS KEYBOARD AND MOUSE CONCEALED BEHIND THIS DISPLAY
- 6 CRESTRON PANEL TO BE PLACED ON TABLE

ALL DISPLAYS AND BRACKETS TO BE FURNISHED BY OWNER BUT INSTALLED BY AVIC.



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DANE COUNTY EMERGENCY MANAGEMENT REMODEL
 5415 KING JAMES WAY FITCHBURG, WISCONSIN

ISSUE RECORD	
1	ISSUE FOR BD 08-03-21

CHECKED BY _____
 TFI
 DRAWN BY _____
 SENTINEL
 DATE _____
 01-04-21
 PROJECT NUMBER _____
 2020-001

LEGEND AND GENERAL NOTES
 AVO.0



NOT FOR CONSTRUCTION

GENERAL SCOPE REQUIREMENTS:

- 1. ALL COMPONENTS (SOURCE, AUDIO, VIDEO, CONTROL, CABLE) AND ASSOCIATED MATERIALS AND LABOR REQUIRED FOR A COMPLETE INSTALLATION OF THE AUDIOVISUAL SYSTEM SHALL BE PROVIDED BY THE AVIC UNLESS OTHERWISE STATED IN THIS DOCUMENT.
2. DUE CARE AND DILIGENCE HAVE BEEN USED IN PREPARATION OF THIS INFORMATION, AND IT IS BELIEVED TO BE SUBSTANTIALLY CORRECT. HOWEVER, THE RESPONSIBILITY FOR DETERMINING THE FULL EXTENT OF EXPOSURE AND THE VERIFICATION OF ALL INFORMATION PRESENTED HEREIN SHALL REST SOLELY WITH THE AVIC. THE OWNER, SENTINEL TECHNOLOGIES, AND ANY OTHER REPRESENTATIVES WILL NOT BE RESPONSIBLE FOR ANY ERRORS OR OMISSIONS IN THESE REQUIREMENTS, NOR FOR THE FAILURE ON THE PART OF THE AVIC TO DETERMINE THE FULL EXTENT OF THE EXPOSURES.
3. THE AVIC SHALL NOT BE ALLOWED TO TAKE ADVANTAGE OF ANY ERRORS OR OMISSIONS IN THESE REQUIREMENTS AND ASSOCIATED PROJECT DRAWINGS. WHERE ERRORS OR OMISSIONS APPEAR IN THESE REQUIREMENTS OR DRAWINGS, THE AVIC SHALL PROMPTLY NOTIFY SENTINEL TECHNOLOGIES IN WRITING OF SUCH ERRORS OR OMISSIONS. ANY SIGNIFICANT ERRORS, OMISSIONS, OR INCONSISTENCIES IN THE REQUIREMENTS SHALL BE REPORTED NO LATER THAN FIVE (5) DAYS BEFORE THE SUBMISSION DEADLINE. THE OWNER, SENTINEL TECHNOLOGIES, AND ANY OTHER REPRESENTATIVES WILL NOT BE RESPONSIBLE FOR ERRORS THAT GO UNDISCOVERED.

DRAWINGS:

- 1. ASSOCIATED DRAWINGS ARE DIAGRAMMATIC IN NATURE AND MAY NOT REPRESENT EXACT FIELD CONDITIONS. THE AVIC SHALL FIELD-VERIFY CRITICAL INSTALLATION REQUIREMENTS AND PROVIDE NECESSARY ASSOCIATED WORK.
2. LOCATIONS AND ROUTES OF PATHWAYS SHOWN ON DRAWINGS ARE SCHEMATIC AND NOT NECESSARILY REFLECTIVE OF CONDITIONS AT TIME OF INSTALLATION, OR WERE POSITIONED FOR CLARITY RATHER THAN EXACT SPACING, BENDING, OR DESIRED SEPARATION. THE AVIC SHALL REVIEW ANY AND ALL SUCH PATHWAYS SHOWN ON THE DRAWINGS TO ENSURE THAT THE PROPOSED SOLUTION WILL FUNCTION AS INTENDED WITH REGARD TO QUANTITIES, SIZES, LOCATIONS, ETC.
3. THE AVIC SHALL, PRIOR TO INSTALLATION, VERIFY EXACT LOCATIONS BY CROSS-CHECKING ARCHITECTURAL, ELECTRICAL, AND COMMUNICATIONS DRAWINGS, FIELD CONDITIONS AND APPROVED SHOP DRAWINGS.
4. THE AVIC SHALL BE PREPARED TO RELOCATE EQUIPMENT OR DEVICES PROVIDED UNDER THIS SCOPE OF WORK WHEN DIRECTED BY THE PROJECT TEAM WITHOUT COST, PROVIDED EQUIPMENT HAS NOT BEEN INSTALLED AND THE NEW LOCATION IS NOT GREATER THAN TWENTY FIVE FEET (25') FROM THE LOCATION ORIGINALLY SHOWN.
5. INSTALLED DEVICES SHALL BE LOCATED AT SAME HEIGHT, AND OF SAME ORIENTATION, UNLESS OTHERWISE NOTED

QUALITY ASSURANCE:

- 1. THE AVIC SHALL BE CERTIFIED TO INSTALL THE AUDIOVISUAL SOLUTIONS THAT THE AVIC HAS PROPOSED AS SPECIFIED IN THIS DOCUMENT.
2. ONLY THE HIGHEST GRADE COMPONENTS SHALL BE CONSIDERED, AND ALL COMPONENTS SHALL BE BALANCED WITH EACH OTHER FROM AN ELECTRICAL AND PERFORMANCE CHARACTERISTIC STANDPOINT.
3. ALL WORK SHALL BE PERFORMED IN A WORKMANLIKE MANNER ACCORDING TO GENERALLY ACCEPTED TRADE PRACTICES.
4. APPROPRIATE UNION REQUIREMENTS SHALL BE STRICTLY FOLLOWED AND ALL AVIC EMPLOYEES ON SITE SHALL HAVE APPROPRIATE UNION LICENSES.
5. THE AVIC SHALL CONFORM AND ADHERE TO ALL JOB SITE REQUIREMENTS AS DEFINED BY THE GENERAL CONTRACTOR. IT IS THE RESPONSIBILITY OF THE AVIC TO OBTAIN THESE REQUIREMENTS FROM THE GENERAL CONTRACTOR.
6. ALL NECESSARY PERMITS ARE TO BE SECURED BY THE AVIC.
7. APPROPRIATE LEVELS OF INSURANCE AND BONDING SHALL BE MAINTAINED. CERTIFICATES OF INSURANCE MAY BE REQUESTED, AND SHALL BE PROVIDED AT THE AVIC'S EXPENSE.
8. THE AVIC SHALL PROTECT ALL STORED OR INSTALLED MATERIALS AS PART OF THESE SYSTEMS BEFORE, DURING, OR AFTER INSTALLATION FROM DAMAGE CAUSED BY OTHER TRADES UNTIL TURNOVER AND FINAL ACCEPTANCE. IF DAMAGE OCCURS DESPITE SUCH PROTECTIONS, REMOVE AND REPLACE ALL DAMAGED COMPONENTS OR THE ENTIRE UNIT(S) AS REQUIRED TO PROVIDE A SOLUTION IN AN ORIGINAL, UNDAMAGED CONDITION.
9. ANY VARIATIONS TO THE INSTALLATION OF THE AUDIOVISUAL SYSTEM AS DESCRIBED IN THIS REQUIREMENT AND THE ASSOCIATED PROJECT DRAWINGS SHALL BE SUBJECT TO THE CONTROL AND APPROVAL OF THE GENERAL CONTRACTOR, THE OWNER AND SENTINEL.
10. SUBSTITUTION OF ANY MATERIALS SPECIFIED IN THIS DOCUMENT SHALL ONLY BE CONSIDERED ONCE A REQUEST TO DO SO HAS BEEN SUBMITTED IN WRITING TO THE GENERAL CONTRACTOR, THE OWNER AND SENTINEL FOR PRIOR APPROVAL. THIS SUBMITTAL SHALL DISCUSS THE SCOPE OF THE CHANGE, THE RAMIFICATIONS ON THE OVERALL AUDIOVISUAL SYSTEMS AND THE ADVANTAGES TO BE GAINED BY THE OWNER.
11. THE AVIC SHALL CONFORM TO THE FOLLOWING STANDARDS WHEN PROVISIONING AND INSTALLING THE NEW AUDIOVISUAL SYSTEM:
11.1. ALL APPLICABLE LOCAL, COUNTY AND STATE BUILDING AND ELECTRICAL CODES WITH LOCAL ADDENDA
11.2. THE AMERICANS WITH DISABILITIES ACT (ADA)
11.3. BUILDING INDUSTRY CONSULTING SERVICES INTERNATIONAL (BICSI) AV DESIGN REFERENCE MANUAL (AVDRM) (LATEST EDITION)
11.4. BUILDING INDUSTRY CONSULTING SERVICES INTERNATIONAL (BICSI) INFORMATION TRANSPORT SYSTEMS INSTALLATION MANUAL (LATEST EDITION)
11.5. BUILDING INDUSTRY CONSULTING SERVICES INTERNATIONAL (BICSI) TELECOMMUNICATIONS DISTRIBUTION METHODS MANUAL (TDMM) (LATEST EDITION)
11.6. NFPA 70 NATIONAL ELECTRICAL CODE (NEC) 2020 (WHERE MORE STRINGENT THAN LOCAL CODES)

- 11.7. UL 444 2008, COMMUNICATION CABLES
11.8. ANSI/NECA/BICSI 568-2006, STANDARD FOR INSTALLING COMMERCIAL BUILDING TELECOMMUNICATIONS CABLING
11.9. ANSI/TIA-568.0-D, GENERIC TELECOMMUNICATIONS CABLING FOR CUSTOMER PREMISES
11.10. FCC PART 68 REGULATIONS
11.11. ANSI/TIA-568.1-D, COMMERCIAL BUILDING TELECOMMUNICATIONS CABLING STANDARD
11.12. IEEE 802.3, ETHERNET STANDARD
11.13. ANSI/TIA-568.2-D, BALANCED TWISTED-PAIR TELECOMMUNICATIONS CABLING AND COMPONENTS STANDARD
11.14. ANSI/TIA-569-D, TELECOMMUNICATIONS PATHWAYS AND SPACES
11.15. ANSI/TIA-606-C, ADMINISTRATION STANDARD FOR COMMERCIAL TELECOMMUNICATIONS INFRASTRUCTURE
11.16. ANSI/TIA-607-C-1, GENERIC TELECOMMUNICATIONS BONDING AND GROUNDING (EARTHING) FOR CUSTOMER PREMISES
11.17. NECA/BICSI-607, STANDARD FOR TELECOMMUNICATIONS BONDING AND GROUNDING PLANNING AND INSTALLATION METHODS FOR COMMERCIAL BUILDINGS
11.18. ANSI/TIA-1152-A, REQUIREMENTS FOR FIELD TEST INSTRUMENTS AND MEASUREMENTS FOR BALANCED TWISTED-PAIR CABLING
11.19. CRESTRON'S MOST RECENT DIGITAL MEDIA DESIGN GUIDE

FIRST-NAMED MANUFACTURER:

- 1. WITHIN THESE REQUIREMENTS AND ASSOCIATED DRAWINGS, THE FIRST-NAMED APPROVED MANUFACTURER INDICATES THAT ITS RESPECTIVE DEVICE, EQUIPMENT OR SYSTEM MAY HAVE BEEN USED TO MEET THE JOB REQUIREMENTS AND TO DETERMINE THE SPACE AND DIMENSIONAL REQUIREMENTS. THE AVIC'S USE OF ANOTHER PRE-APPROVED SYSTEM MAY REQUIRE THAT THE AVIC VERIFY THAT THE RESPECTIVE DEVICES, EQUIPMENT, SYSTEMS OR PRODUCTS WILL MEET THE JOB REQUIREMENTS AND WILL FIT THE ALLOCATED SPACE.
2. THE LISTING OF A MANUFACTURER AS ACCEPTABLE OR PRE-APPROVED DOES NOT IN ANY WAY RELIEVE THE AVIC FROM THE RESPONSIBILITY FOR PROVIDING DEVICES, EQUIPMENT OR SYSTEMS THAT MEET THE REQUIREMENTS OF THE SPECIFICATIONS. THE AVIC SHALL VERIFY THAT PERFORMANCE REQUIREMENTS ARE MET, AS NO TWO MANUFACTURERS SHOULD BE TRUSTED AS EXACTLY IDENTICAL IN FUNCTION, FIT, OR FINISH.

SUBMITTALS IF AWARDED:

- 1. SHOP DRAWINGS AND PRODUCT DATA OF STANDARD CATALOGED PRODUCTS SHALL BE SUBMITTED WITH APPLICABLE DATA THAT MEET THE JOB REQUIREMENTS. SUBMITTALS THAT INCLUDE INFORMATION ON MULTIPLE DEVICES OR EQUIPMENT ARE ACCEPTABLE ONLY WHEN ITEMS APPLICABLE TO THE JOB ARE IDENTIFIED WITH ARROWS, CHECK MARKS OR OTHER CALL OUTS. THE AVIC SHALL CLEARLY IDENTIFY WHICH MANUFACTURER SOLUTIONS ARE BEING PROPOSED AT THE TIME OF BID RESPONSE.
2. WHEN SHOP DRAWINGS ARE CREATED FROM OR INCORPORATED WITH SENTINEL'S DRAWINGS, THE AVIC SHALL REMOVE THE ARCHITECT'S, ENGINEER'S, AND SENTINEL'S TITLE BLOCKS AND REPLACE IT WITH THE AVIC'S OWN, UNIQUE TITLE BLOCK. THE AVIC'S TITLE BLOCK SHALL INCLUDE, AT A MINIMUM, THE AVIC'S NAME, ADDRESS AND TELEPHONE NUMBER, AND THE PROJECT NAME.
3. SHOP DRAWINGS OF RELATED EQUIPMENT, DEVICES AND MATERIAL SHALL BE SUBMITTED AT SAME TIME SO THE PROJECT TEAM CAN COORDINATE THE RELATED COMPONENTS.
4. NO MATERIAL OR EQUIPMENT SHALL BE RELEASED FOR MANUFACTURE OR SHIPMENT WITHOUT FIRST OBTAINING THE APPROVAL OF THE PROJECT TEAM. ONLY THE AVIC SHALL BE RESPONSIBLE FOR COSTS AND COORDINATION OF RETURNING ITEMS PURCHASED PRIOR TO APPROVAL.
5. THE AVIC SHALL SUBMIT AN ELECTRONIC COPY OF THE SUBMITTALS UNLESS DIRECTED OTHERWISE BY THE GC OR THE OWNER. THESE SUBMITTALS MAY BE SUBJECT TO APPROVAL, OR REJECTION WITH COMMENTARY. SUBMITTALS MAY CONSIST OF BUT NOT BE LIMITED TO ONE OR ANY APPROPRIATE COMBINATION OF THE FOLLOWING:
5.1. MANUFACTURER CUT-SHEETS
5.2. SHOP DRAWINGS (INCLUDING SINGLE-LINE DIAGRAMS)
5.3. CATALOG SHEETS (AGGREGATED WITH A SPREADSHEET-STYLE INDEX SHOWING WHICH CATALOG SHEETS PERTAIN TO WHICH ROOM, RATHER THAN ROOM-BY-ROOM PACKETS OF REPETITIVE PAGES)
5.4. WRITTEN SPECIFICATIONS
5.5. ORIGINALS OR COPIES OF THE ABOVE
6. IF HARD COPIES OF THE SUBMITTALS ARE REQUESTED, THEY SHOULD BE BOUND IN A STANDARD THREE-RING BINDER WITH A MINIMUM OF THE AVIC'S NAME, ADDRESS AND TELEPHONE NUMBER, AND THE PROJECT NAME.

COORDINATION:

- 1. THE AVIC SHALL COORDINATE THE ARRANGEMENT, INSTALLATION, AND FINISHING OF THE AUDIOVISUAL SYSTEM.
2. WHERE A GIVEN COMPONENT OFFERS MULTIPLE COLOR OPTIONS, ALL SUCH FINISHES SHALL BE COORDINATED WITH THE ARCHITECT IN ADVANCE OF PURCHASE.
3. ANY CONDUIT, PATHWAY, OR SLEEVE REQUIREMENTS SHALL BE COORDINATED WITH THE MEP ENGINEER. THE AVIC SHALL REVIEW THE ACTUAL CONDUIT PLANS PROPOSED BY THE MEP OR EC TO ENSURE THAT CONDUITS INTENDED FOR THE AUDIOVISUAL SYSTEM ARE CORRECTLY SIZED, ADEQUATELY POSITIONED, AND HAVE THE REQUISITE NUMBER OF PULL BOXES AS REQUIRED BY THE ACTUAL MATERIALS PROPOSED BY THE AVIC, AND/OR AS THE AVIC DESIRES AS OPTIMAL FOR INSTALLATION. THE AVIC SHALL BE

- RESPONSIBLE FOR ANY AND ALL COSTS ASSOCIATED WITH CONDUIT CHANGES RESULTING FROM FAILURE TO PREVIEW AND APPROVE THE PATHWAYS INSTALLED BY OTHERS.
4. THE FINAL ALIGNMENT AND POSITIONING OF PULL BOXES, JUNCTION BOXES, BACK BOXES, CONDUIT ENDS, STUBS, SLEEVES, ETC., WITH AVIC-INSTALLED DEVICES SHALL BE COORDINATED WITH THE OWNER, MEP ENGINEER, AND ARCHITECT.
5. ANY EQUIPMENT CUT INTO, MOUNTED ON, OR SUSPENDED FROM ARCHITECTURAL ELEMENTS SUCH AS WALLS OR CEILING SHALL BE COORDINATED WITH THE ARCHITECT TO ENSURE THERE IS NO CONFLICT WITH DESIGN INTENT OR FUNCTIONALITY.
6. ANY OTHER ELEMENTS THAT MIGHT OR WILL INTERFERE WITH ELEMENTS INSTALLED BY OTHER TRADES SHALL BE COORDINATED WITH THE GC AND THOSE RESPECTIVE TRADES.
7. NETWORK-BASED DEVICES REQUIRING IP ADDRESSES OR SIP INTEGRATION SHALL BE COORDINATED WITH THE OWNER.
8. CONFLICTS REQUIRING NOTICEABLE DEVIATION FROM THE ASSOCIATED PROJECT DRAWINGS OR THESE REQUIREMENTS SHALL BE COORDINATED WITH SENTINEL.

FIRESTOPPING:

- 1. FIRE STOP SYSTEMS SHALL BE UL-LISTED OR FACTORY MUTUAL APPROVED. THE AVIC SHALL FURNISH AND INSTALL THE PROPER FIRE STOP SYSTEM WITH CLASSIFIED PRODUCTS AND MATERIALS COMPATIBLE WITH THE APPROPRIATE PENETRATING ELEMENTS, TYPE OF CONSTRUCTION MATERIAL AND DIMENSIONS OF THE WALL, PARTITION, BARRIER, OR FLOOR, AND THE ENVIRONMENT AND TEMPERATURE RANGE OF BOTH SIDES OF THE OPENING. FIRE STOP SYSTEMS SHALL MAINTAIN THE ORIGINAL FIRE RESISTANCE RATING OF THE WALL, PARTITION, BARRIER, OR FLOOR PRIOR TO THE PENETRATION.
2. EXPANSION TYPE FIRE STOP MATERIAL SHALL BE USED WHERE NECESSARY TO PROTECT AND CLOSE THE OPENING UPON FAILURE OF THE PENETRATING ELEMENT DUE TO FIRE.
3. FIRE STOP PENETRATIONS IN FIRE-RATED WALLS AND FLOORS FOR SLEEVES, WIRING, CABLES, CONDUITS, DUCTS, AND CABLE TRAYS.
4. FIRE STOPPING FOR OPENINGS THROUGH FIRE AND SMOKE-RATED WALLS AND FLOOR ASSEMBLIES SHALL BE LISTED OR CLASSIFIED BY AN APPROVED INDEPENDENT TESTING LABORATORY FOR "THROUGH-PENETRATION FIRESTOP SYSTEMS."
5. THE AVIC SHALL FURNISH AND INSTALL SYSTEMS FIRE TESTED BY A THIRD PARTY ACCORDING TO ASTM E814 (OR UL 1479) TESTED UNDER POSITIVE PRESSURE.
6. THE AVIC SHALL INSTALL FIRE STOPPING MATERIAL IN ACCORDANCE WITH CONSTRUCTION ELEMENTS AND MANUFACTURER SPECIFICATION.
7. THOROUGHLY CLEAN AND REMOVE ANY FIRE STOPPING MATERIAL THAT DRIPS OR FALLS ONTO WALL OR FLOOR SURFACES.
8. AFTER INSTALLATION, PROTECT THE FIRE STOP MATERIAL FROM DAMAGE DURING CONSTRUCTION. IF DAMAGE OCCURS DESPITE SUCH PROTECTIONS, REMOVE AND REPLACE FIRE STOPPING MATERIAL AS REQUIRED TO RESTORE THE INTEGRITY OF THE FIRE RATING.

COMMON WORK RESULTS FOR INSTALLATION:

- 1. TAKE FIELD MEASUREMENTS AS REQUIRED TO FIT THE WORK PROPERLY. RECHECK MEASUREMENTS BEFORE INSTALLING EACH PRODUCT. WHERE PORTIONS OF THE WORK ARE INDICATED TO FIT TO OTHER CONSTRUCTION, VERIFY DIMENSIONS OF OTHER CONSTRUCTION BY FIELD MEASUREMENTS BEFORE FABRICATION. COORDINATE FABRICATION SCHEDULE WITH CONSTRUCTION PROGRESS TO AVOID DELAYING THE WORK.
2. VERIFY SPACE REQUIREMENTS AND DIMENSIONS OF ANY ITEMS SHOWN DIAGRAMMATICALLY ON THE ASSOCIATED PROJECT DRAWINGS.
3. IMMEDIATELY ON DISCOVERY OF THE NEED FOR CLARIFICATION OF THE CONTRACT DOCUMENTS CAUSED BY DIFFERING FIELD CONDITIONS OUTSIDE THE CONTROL OF THE AVIC, SUBMIT A REQUEST FOR INFORMATION.

AUDIOVISUAL CABLING:

- 1. THE AVIC SHALL FURNISH AND INSTALL ALL AUDIOVISUAL-RELATED WIRING AND CABLING FOR ALL COMPONENTS DESCRIBED HEREIN, EXCEPT FOR THOSE CABLE OR WIRING RUNS THAT WILL BE FURNISHED AND INSTALLED BY OTHERS. RUNS INSTALLED BY OTHERS WILL BE CLEARLY NOTED WITHIN THESE REQUIREMENTS.
1.1. WHERE OTHERS ARE PROVIDING THE WIRING OR CABLING, THE AVIC SHALL COORDINATE WITH THOSE RESPECTIVE TRADES TO ENSURE THAT ALL AUDIOVISUAL REQUIREMENTS ARE MET, THAT THERE ARE ADEQUATE QUANTITIES INSTALLED, AND THAT THE INSTALLED SOLUTION WILL PERFORM AS EXPECTED FOR WARRANTY PURPOSES.
1.2. WHERE THE AVIC IS TO FURNISH AND INSTALL CABLING, ALL MANUFACTURERS' RESPECTIVE REQUIREMENTS SHALL BE MET. WHERE MANUFACTURER REQUIREMENTS DIFFER FROM ANY REQUIREMENTS PROVIDED WITHIN THIS REQUIREMENT, THE MORE STRINGENT OF THE TWO SHALL BE FOLLOWED.
2. PERMANENTLY FIXED WIRING AND CABLING IN PLENUM SPACES SHALL BE PLENUM-RATED.
3. ALL CABLING NOT INSTALLED IN CONDUIT OR CONDUIT STUBS SHALL BE PROPERLY SUPPORTED.
4. CABLE RUNS SHALL CONTAIN NO SPLICE OR TRANSITION POINTS FROM THE ENDPOINT TO THE SOURCE UNLESS NOTED OTHERWISE.
5. THE AVIC SHALL BE RESPONSIBLE FOR VERIFYING THE ACTUAL DISTANCES AND VOLTAGE DROPS FOR EACH CABLE RUN FROM ONE POINT TO ANOTHER.
6. ALL EXPOSED OR UNSUPPORTED AUDIOVISUAL CABLES SHALL BE PROPERLY DRESSED, TIED AND TRIMMED ACCORDING TO BEST PRACTICES.
7. WHERE APPLICABLE, ALL CABLE ENDS SHALL BE WRAPPED WITH SHRINK TUBING AND EACH SHIELD OR DRAIN WIRE SHALL BE SHEATHED IN CLEAR TUBING.



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DAKE COUNTY EMERGENCY MANAGEMENT REMODEL 5415 KING JAMES WAY FITCHBURG, WISCONSIN

ISSUE RECORD

1	ISSUE FOR	BY	DATE
			08-01-21

CHECKED BY: TFI
DRAWN BY: SENTINEL
DATE: 01-04-21
PROJECT NUMBER: 2020-001

AUDIOVISUAL REQUIREMENTS 1 AVO.1

NOT FOR CONSTRUCTION



8. VELCRO® WRAPS SHALL BE USED IN LIEU OF PLASTIC TIE WRAPS.
9. ALL CABLING AND WIRING SHALL BE GROUPED AND BUNDLED ACCORDING TO THE SIGNAL LEVEL IN ALL ENCLOSURES AND RACKS.
 - 9.1. CABLING CARRYING SPEAKER-LEVEL SIGNALS (+24DBU OR HIGHER) SHALL BE KEPT SEPARATE FROM ALL OTHER GROUPS.
 - 9.2. CABLING CARRYING MICROPHONE-LEVEL SIGNALS SHALL BE KEPT SEPARATED FROM ALL OTHER GROUPS
 - 9.3. CABLING CARRYING LINE-LEVEL OR INTERCOM AUDIO SIGNALS SHALL BE KEPT SEPARATED FROM ALL OTHER GROUPS.
 - 9.4. VIDEO CABLING, HDMI, SIGNALS TRAVELING OVER UTP OR F/UTP, CONTROL SYSTEM WIRING, ETC., MAY BE GROUPED TOGETHER.
10. AUDIOVISUAL CABLING SHALL BE KEPT PHYSICALLY SEPARATED FROM POWER CABLING, WHETHER OR NOT THE CABLING TRAVELS IN CONDUITS; POWER AND SIGNAL SHALL BE KEPT PHYSICALLY SEPARATED BELOW TABLES, WITHIN CREDENZAS, INSIDE RACKS, AND SO ON.
11. INSPECT FOR AND REPLACE ALL WIRES AND CABLES SUFFERING FROM DEFORMED, BRITTLE, OR CRACKED INSULATION, STRIPPING IN EXCESS OF 1/8-INCH FROM POINT OF CONNECTION, COLD SOLDER JOINTS, FLUX JOINTS, SOLDER SPLATTER, UN-GROMMETTED, UN-BUSHED, OR UN-INSULATED WIRE OR CABLE ENTRIES, DEFORMATION OR IMPROPER RADIUS BENDING.
12. SHIELDED CABLES SHALL BE INSULATED, AND SHIELDS SHALL BE PREVENTED FROM ANY CONTACT WITH CONDUIT, RACEWAYS, BOXES, PANELS, OR EQUIPMENT ENCLOSURES.
13. SERVICE LOOPS SHALL BE USED AT ALL EQUIPMENT TERMINATION POINTS TO ALLOW FOR EASE OF INSTALLATION, CLEANING, SERVICE, INSPECTION, AND MODIFICATION.
14. CABLE PULLING LUBRICANTS, WHERE USED, SHALL BE APPROVED BY THE CABLE MANUFACTURER SO THAT THE LUBRICATING COMPOUND CANNOT DETERIORATE THE CABLE JACKET.
15. BRIDLE RINGS OR OTHER EQUIVALENT SUPPORTS SHALL BE INSTALLED IN AREAS WHERE DUCTS, CONDUITS OR CABLE TRAYS ARE NOT AVAILABLE.
16. CABLES SHALL NEVER REST UPON CEILING TILES, LIGHTING FIXTURES, STUD WALLS, OR PIPING. ALL CABLES SHALL BE PROPERLY SUPPORTED TO PREVENT THIS, AND SHALL BE SUPPORTED AT A MINIMUM OF EVERY TEN FEET TO REDUCE SAG.
17. LOCATIONS AND ROUTES OF PATHWAYS SHOWN ON DRAWINGS ARE SCHEMATIC AND NOT NECESSARILY REFLECTIVE OF CONDITIONS AT TIME OF INSTALLATION, OR WERE POSITIONED FOR CLARITY RATHER THAN EXACT SPACING, BENDING, OR DESIRED SEPARATION. THE AVIC SHALL REVIEW ANY AND ALL SUCH PATHWAYS SHOWN ON THE DRAWINGS TO ENSURE THAT THE PROPOSED SOLUTION WILL FUNCTION AS INTENDED WITH REGARD TO QUANTITIES, SIZES, LOCATIONS, ETC.

DIGITAL MEDIA CABLING:

1. WHERE THE REQUIREMENTS OR DRAWINGS REFER TO DIGITAL MEDIA, HD-BASE-T, HDBT, 8G+, OR DM CABLING, THE AVIC SHALL FURNISH AND INSTALL TWISTED PAIR CABLING.
2. FOILED/UNSHIELDED TWISTED PAIR (F/UTP) OR SCREENED TWISTED PAIR (SCTP) CATEGORY 6 CABLING RATED AT 250 MHZ OR BETTER SHALL BE USED FOR MOST DIGITAL MEDIA CABLING.
 - 2.1. UNSHIELDED TWISTED PAIR (UTP) MAY BE USED FOR RUN WHOSE TOTAL CHANNEL LENGTH IS EQUAL TO OR LESS THAN 100 FEET, AND WHERE INDIVIDUAL CONDUITS OR CONDUIT STUBS HAVE BEEN PROVIDED FOR UTP CABLING SO THAT DIGITAL SIGNALS DO NOT CAUSE INTERFERENCE WITH OTHER CABLING TYPES IN THE SAME PATHWAY.
 - 2.2. ADDITIONAL REQUIREMENTS FOR F/UTP AND UTP ARE DISCUSSED IN DETAIL LATER IN THESE REQUIREMENTS.
3. THE AVIC SHALL ENSURE THAT ANY HIGH-DEFINITION VIDEO CONTENT SENT ACROSS DIGITAL MEDIA CABLES SHALL SEND 4K FROM THE SOURCE AND RECEIVE 4K PROGRAMMING AT THE FAR END WITH NO STEP DOWN TO INTERLACED VIDEO OR 720P. THE AVIC SHALL USE TEST 4K SOURCE CONTENT TO VERIFY THAT THE MAXIMUM RESOLUTION FOR THE VIDEO DISPLAY IS PROPERLY EXCHANGED THROUGH EDID. THE DESIGN MAY INCLUDE NON-4K SOURCES; NEVERTHELESS, THE AVIC SHALL USE A 4K TEST TO ENSURE THAT FUTURE COMPONENTS WILL BE PROPERLY SUPPORTED BY THE AVIC'S INSTALLATION.
4. LIKEWISE, ANY DEVICES SPECIFIED TO TRANSMIT AND/OR RECEIVE AT 4K CONNECTIONS SHALL MAINTAIN CONSISTENT 4K PROGRAMMING FROM SOURCE TO OUTPUT, UNLESS THE DESIGN INHERENTLY ALLOWS FOR A STEP-DOWN TO 1080P DUE TO THE INCLUSION OF A NON-4K COMPONENT IN THE SIGNAL PATH.

HDMI CABLING:

1. ALL HDMI CABLES SHALL BE CERTIFIED BY THE MANUFACTURER TO CONFORM TO THE HDMI COMPLIANCE TEST SPECIFICATION.
2. ALL HDMI CABLES SHALL OPERATE UP TO AND INCLUDING 4K SIGNALS.
3. ALL HDMI CABLES SHALL BE 22 AWG OR 24 AWG (INCLUDING DRAIN WIRE). THE AUDIOVISUAL DESIGNS ASSUME A 20-FOOT RUN LIMITATION. THE AVIC MAY UTILIZE OTHER GAUGED CABLING PROVIDED THE TOTAL RUN LENGTH DISTANCES ARE SHORT ENOUGH TO SUPPORT 4K OR BETTER.
 - 3.1. FOR RUNS EXCEEDING 20-FEET, UTILIZE OPTICAL HDMI CABLE.
 - 3.2. FOR RUNS EXCEEDING 50-FEET, UTILIZE HD-BASE-T TRANSMISSION.
4. TIN PLATED HDMI CONDUCTORS SHALL NOT BE USED UNLESS THE AVIC CAN DEMONSTRATE 4K PROGRAMMING DUE TO THE SHORTER CABLE LENGTHS.
5. THE AVIC SHALL ENSURE THAT THE CABLE CAN SEND 4K FROM THE SOURCE AND RECEIVE 4K PROGRAMMING AT THE FAR END WITH NO STEP DOWN TO INTERLACED VIDEO OR LOWER RESOLUTION. THE AVIC SHALL USE TEST 4K-SOURCE CONTENT TO VERIFY THAT THE MAXIMUM RESOLUTION FOR THE VIDEO DISPLAY IS PROPERLY EXCHANGED THROUGH EDID.
6. VERIFY THAT VERTICALLY ORIENTED HDMI CONNECTORS WILL NOT DISLodge AND FALL OUT OF THE HDMI PORTS ON ANY COMPONENT. THE AVIC SHALL UTILIZE STRAIN RELIEF AND/OR PORT SAVERS TO MITIGATE THIS RISK.

7. MAINTAIN A BEND RADIUS OF FOUR INCHES (4") UNLESS THE MANUFACTURER SPECIFIES A GREATER BEND RADIUS. IN ALL CASES, THE AVIC SHALL FOLLOW THE MORE STRINGENT REQUIREMENT.

AUDIO WIRING:

1. WHERE REQUIREMENTS OR DRAWINGS CALL OUT FOR AUDIO WIRING, THE AVIC SHALL UNDERSTAND THIS TO INCLUDE THE WIRING THAT MAY CONNECT DIVERSE LINE AUDIO CONNECTORS SUCH AS 3.5MM AUDIO, RIGHT AND LEFT STEREO AUDIO, MIXED STEREO AUDIO ON A SINGLE QUARTER-INCH JACK, PHOENIX, CAPTIVE SCREW, OR DIRECT-WIRE SYSTEMS, AND SO ON.
2. THE CONNECTOR TYPE SHOWN OR DESCRIBED WILL CLARIFY THE TYPE OF AUDIO CABLE AND TERMINATION METHOD REQUIRED.
3. GENERALLY, THIS SHALL CONSIST OF SINGLE PAIR, SHIELDED 22 AWG CABLING UNLESS OTHERWISE NOTED OR REQUIRED.
4. ACCEPTABLE MANUFACTURERS INCLUDE:
 - 4.1. GENERAL/CAROL
 - 4.2. WEST PENN/CDT
 - 4.3. BELDEN/CDT
5. THE AVIC SHALL NOT STRIP ANY AUDIO WIRING LESS THAN OR GREATER THAN THREE-SIXTEENTHS OF AN INCH (3/16").
6. THE AVIC SHALL NOT TIN THE WIRES.
7. FOLLOW ALL MANUFACTURER REQUIREMENTS FOR AUDIO WIRING.
8. THE AVIC SHALL FOLLOW ALL BEND RADIUS REQUIREMENTS AS DIRECTED BY THE MANUFACTURER FOR EACH TYPE OF CABLE.
9. WHEN USING UNBALANCED AUDIO, THE AVIC SHALL NOT CONNECT THE SLEEVE TO THE NEGATIVE CONTACT; THE AVIC SHALL CONNECT THE SLEEVE WIRE TO THE GROUND CONTACT.
10. WHEN USING BALANCED AUDIO, THE AVIC SHALL CONNECT THE SLEEVE WIRE TO THE GROUND CONTACT, AND THE RING WIRE TO THE NEGATIVE CONTACT.
11. THE BEND RADIUS SHALL BE NO LESS THAN ONE AND ONE-HALF (1.5) INCHES.

SPEAKER WIRING:

1. WHERE SPEAKER WIRING APPEARS IN THE DRAWINGS OR REQUIREMENTS, THE AVIC SHALL BE RESPONSIBLE TO CALCULATE THE FINAL GAUGE FOR EACH SPEAKER CHANNEL RUN.
2. SHIELDED, SINGLE-PAIR (RED AND BLACK) TWISTED PAIR WIRING SHALL BE USED UNLESS NOTED OTHERWISE OR A SPECIFIC INSTALLATION MAY CALL FOR ANOTHER MEDIUM.
3. WHERE THE SYSTEM TECHNOLOGY UTILIZES UNSHIELDED TWISTED PAIR CABLING, THE AVIC SHALL DISREGARD THE PREVIOUS TWO REQUIREMENTS AND FOLLOW THE REQUIREMENTS FOR UNSHIELDED TWISTED PAIR (SUCH AS IN SELF-AMPLIFIED SPEAKER APPLICATIONS).
4. ACCEPTABLE MANUFACTURERS INCLUDE:
 - 4.1. GENERAL/CAROL
 - 4.2. WEST PENN/CDT
 - 4.3. BELDEN/CDT
5. THE AVIC SHALL REVIEW THE DESIGN DRAWINGS AND CONDUIT IN THE FIELD AND DETERMINE THE APPROPRIATE GAUGE FOR EACH SPEAKER RUN. IN SOME CASES, MULTIPLE SPEAKER CHANNELS MAY BE SUPPORTED IN A SHARED CONDUIT.
6. THE AVIC SHALL FOLLOW ALL BEND RADIUS REQUIREMENTS AS DIRECTED BY THE MANUFACTURER FOR EACH TYPE OF CABLE.
7. WHERE FLEX CONDUITS HAVE BEEN PROVIDED, TREAT THE FREE END OF THE CONDUIT AS REQUIRED TO PROTECT THE WIRING, AND TRIM THE WIRING TO THE REQUIRED LENGTH BEFORE CONNECTING TO THE SPEAKER.

MICROPHONE LEVEL CABLING:

1. WHERE REQUIREMENTS OR DRAWINGS CALL OUT FOR MICROPHONE ("MIC")-LEVEL CABLING, THE AVIC SHALL UNDERSTAND THIS TO BE ANY CABLING CARRYING A MIC-LEVEL CURRENT OF -30 DBU OR LOWER, WHETHER THE CABLE RUNS FROM AN ACTUAL MICROPHONE TO A PRE-AMPLIFIER, OR HAS XLR-TO-XLR JACKS FOR POSSIBLE MICROPHONE INPUT.
2. GENERALLY, THIS SHALL CONSIST OF SINGLE PAIR, SHIELDED 22 AWG CABLING UNLESS OTHERWISE NOTED OR REQUIRED.
3. ACCEPTABLE MANUFACTURERS INCLUDE:
 - 3.1. GENERAL/CAROL
 - 3.2. WEST PENN/CDT
 - 3.3. BELDEN/CDT
4. MICROPHONE-LEVEL CABLES SHALL ALWAYS BE ROUTED IN THEIR OWN CONDUITS, SEPARATE FROM OTHER SIGNALS. IN THE EVEN THE AVIC DISCOVERS A DESIGN FACTOR OR INSTALLATION IN WHICH A SINGLE CONDUIT MAY BE SHARING SIGNAL AND MIC-LEVEL CABLING, THE AVIC SHALL NOTIFY SENTINEL AND THE GC.
5. WHERE MICROPHONE-LEVEL CABLING IS RUN PARALLEL TO OTHER LOW VOLTAGE CABLING, THE AVIC SHALL STRIVE TO MAINTAIN A ONE FOOT (1') SEPARATION AS LONG AS POSSIBLE; THIS MAY NOT ALWAYS BE POSSIBLE WHEN CABLING CONNECTS TO RACK-MOUNTED EQUIPMENT.
6. WHEN WIRING XLR CONNECTORS, PIN 1 SHALL BE USED FOR GROUND, PIN 2 FOR LIVE SIGNAL, AND PIN 3 FOR RETURN SIGNAL UNLESS THE MANUFACTURER OF THE JACK HAS OTHER, SPECIFIC POLARITY REQUIREMENTS OR 4-PIN OR 5-PIN XLR CONNECTORS ARE USED.
7. THE BEND RADIUS SHALL BE NO LESS THAN ONE AND ONE-HALF (1.5) INCHES.

RS-232 CABLING:

1. WHERE THE REQUIREMENTS CALL OUT FOR RS-232 CABLING, THE AVIC SHALL ASSUME THIS TO MEAN 9-PIN D CABLING.
2. CABLES MAY BE PRE-MANUFACTURED TO LENGTH; CABLES MADE IN THE FIELD SHALL BE ASSEMBLED EXACTLY TO MANUFACTURER REQUIREMENTS.
3. EACH FINAL RS-232 CABLE ASSEMBLY SHALL SUPPORT THE PREFERRED BAUD RATE FOR THE HOST SYSTEM AS A MINIMUM. FOR EXAMPLE, IF A HOST DEVICE USES A 9600 BAUD PROTOCOL, THE CABLE SHALL SUPPORT 9600 OR HIGHER BAUD.
4. THIS CABLE SHALL CONSIST OF 22 AWG, TWO-PAIR TWISTED PAIR CABLING UNLESS OTHERWISE NOTED OR REQUIRED.
5. ACCEPTABLE MANUFACTURERS INCLUDE:
 - 5.1. GENERAL/CAROL
 - 5.2. WEST PENN/CDT
 - 5.3. BELDEN/CDT
6. AFTER INSTALLATION, TEST EACH RS-232 CABLE BY SENDING AND RECEIVING COMMANDS TO AND FROM THE CONTROLLED DEVICE.
7. ENSURE THE DEVICE IS COMMUNICATING AT THE RECOMMENDED BAUD RATE.
8. UNLESS REQUIRED OTHERWISE BY A SPECIFIC DEVICE, USE THE GREEN WIRE FOR GROUND (PIN 5), THE WHITE WIRE TO RECEIVE (PIN 3), THE RED WIRE TO TRANSMIT (PIN 2), AND THE BLACK WIRE FOR PIN 9.
9. MAINTAIN A BEND RADIUS OF AT LEAST ONE-AND-SIX-TENTHS (1.6) INCHES.

CRESNET WIRING:

1. CABLING SHALL CONSIST OF 18 TO 22 AWG UNSHIELDED STRANDED WIRING WITH A 24 AWG DRAIN WIRE.
2. CATEGORY-RATED UTP SHALL NOT BE USED FOR DEDICATED CRESNET CONTROL FUNCTIONS.
3. ACCEPTABLE MANUFACTURERS INCLUDE:
 - 3.1. GENERAL/CAROL
 - 3.2. WEST PENN/CDT
 - 3.3. BELDEN/CDT
4. AFTER INSTALLATION, TEST EACH CONTROL CABLE BY SENDING COMMANDS TO THE CONTROLLED DEVICES.
5. MAINTAIN A BEND RADIUS OF AT LEAST TWO AND ONE-HALF (2.5) INCHES.

CONTROL OR RELAY WIRING:

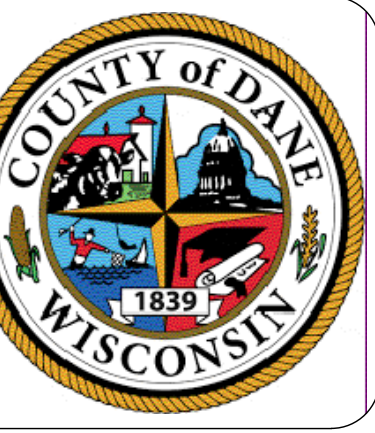
1. WHERE THE REQUIREMENTS CALL OUT FOR CONTROL OR RELAY CABLING--SUCH AS THAT CONNECTING A PROJECTION SCREEN LOW VOLTAGE RELAY TO A CONTROL SYSTEM OR TO OTHER MECHANICAL OR MOTORIZED DEVICES), THE AVIC SHALL ASSUME THIS TO MEAN TYPICAL CONTROL CABLING.
2. CABLES MAY BE PRE-MANUFACTURED TO LENGTH; CABLES MADE IN THE FIELD SHALL BE ASSEMBLED EXACTLY TO MANUFACTURER REQUIREMENTS.
3. THIS CABLE SHALL CONSIST OF 22 AWG, TWO-PAIR TWISTED PAIR CABLING UNLESS OTHERWISE NOTED OR REQUIRED.
4. ACCEPTABLE MANUFACTURERS INCLUDE:
 - 4.1. GENERAL/CAROL
 - 4.2. WEST PENN/CDT
 - 4.3. BELDEN/CDT
5. AFTER INSTALLATION, TEST EACH CONTROL CABLE BY SENDING COMMANDS TO THE CONTROLLED DEVICE.
6. MAINTAIN A BEND RADIUS OF AT LEAST ONE-AND-SIX-TENTHS (1.6) INCHES.

UNSHIELDED TWISTED PAIR (UTP) WIRING:

1. ALL UTP CABLE SHALL BE CMP (COMMUNICATIONS PLENUM CABLE) FOR PLENUM SPACES OR CMR LISTED (COMMUNICATIONS RISER CABLE) FOR RISER SYSTEMS AS SPECIFIED IN NEC SECTION 800-50.
2. UTP SHALL CONSIST OF CATEGORY 6 UTP RATED BETWEEN 350 MHZ AND 600 MHZ.
3. THE AVIC SHALL PROVIDE AND INSTALL ALL JACKS AND APPROPRIATE INSERTS FOR ALL AUDIOVISUAL LOCATIONS, INCLUDING THOSE INSIDE FLOOR AND TABLE-TOP BOXES.
4. ALL CATEGORY 6 UTP CABLE AND CONNECTORS SHALL MEET OR EXCEED THE CHANNEL REQUIREMENTS AS DEFINED BY THE LATEST STANDARD REFERENCED IN THE COMMON WORK RESULTS SECTION (THE AVIC SHOULD BE AWARE THAT ALL TESTING REQUIREMENTS WILL BE FOR THE PERMANENT LINK).
5. ALL UTP CABLE SHALL BE FROM THE SAME MANUFACTURER AND BE THE SAME TYPE.
6. CATEGORY 6 8P8C (RJ45) CONNECTORS SHALL BE USED.
7. THE AVIC SHALL COORDINATE WITH THE ARCHITECT THE EXACT COLOR AND ORIENTATION AND PLACEMENT OF ALL FACEPLATES BEFORE ANY COMPONENTS ARE PURCHASED AND INSTALLED.
8. ALL UTP CABLE AND CONNECTING HARDWARE SHALL BE RATED AS CATEGORY 6 AND SHALL EXCEED THE MOST CURRENT ANSI/TIA PERFORMANCE SPECIFICATIONS FOR CATEGORY 6 PERMANENT LINK (AS SHOWN IN THIS REQUIREMENT'S OVERVIEW) UNLESS STATED OTHERWISE.
9. THE T568B WIRING PATTERN SHALL BE USED FOR ALL UTP CABLE TERMINATIONS.
10. ALL VERTICALLY RUN CABLES NOT IN CONDUIT SHALL BE SECURED TO THE WALL EVERY 48-FORTY EIGHT INCHES (48").
11. ALL CABLES SHALL BE INSTALLED SUCH THAT THE MANUFACTURER'S BEND RADIUS IS NOT EXCEEDED.



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DANE COUNTY EMERGENCY MANAGEMENT REMODEL
 5415 KING JAMES WAY FITCHBURG, WISCONSIN

ISSUE RECORD	
1	ISSUE FOR BD 08-0, 21

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AUDIOVISUAL REQUIREMENTS
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12. THE AVIC SHALL BE RESPONSIBLE FOR VERIFYING THE ACTUAL DISTANCES FOR EACH UTP CABLE RUN.
13. THE AVIC SHALL ASSUME RESPONSIBILITY FOR ANY DAMAGE TO THE CABLE DURING INSTALLATION.

SHIELDED TWISTED PAIR (F/UTP) WIRING:

1. ALL F/UTP CABLE SHALL BE CMP (COMMUNICATIONS PLENUM CABLE) FOR PLENUM SPACES OR CMR LISTED (COMMUNICATIONS RISER CABLE) FOR RISER SYSTEMS AS SPECIFIED IN NEC SECTION 800-50.
2. F/UTP SHALL CONSIST OF CATEGORY 6 F/UTP RATED BETWEEN 350 MHZ AND 600 MHZ.
3. ALL CATEGORY 6 F/UTP CABLE AND CONNECTORS SHALL MEET OR EXCEED THE CHANNEL REQUIREMENTS AS DEFINED BY THE LATEST STANDARD REFERENCED IN THE COMMON WORK RESULTS SECTION (THE AVIC SHOULD BE AWARE THAT ALL TESTING REQUIREMENTS WILL BE FOR THE PERMANENT LINK).
4. ALL F/UTP CABLE SHALL BE FROM THE SAME MANUFACTURER AND BE THE SAME TYPE.
5. FOILED TWISTED PAIR (FTP), SCREENED TWISTED PAIR (SCTP), AND SCREENED/UNSHIELDED TWISTED PAIR (S/UTP) SOLUTIONS MAY BE SUBSTITUTED, PROVIDED THE SELECTED SOLUTION IS USED CONSISTENTLY AND DOES NOT CONSIST OF DIFFERENT PRODUCTS BY DIFFERENT MANUFACTURERS.
6. CATEGORY 6 8P8C (RJ45) CONNECTORS SHALL BE USED.
7. SHIELDED CONNECTORS SHALL BE USED IN FACEPLATES AND PATCH PANELS AS REQUIRED BY THE CABLING MANUFACTURER.
8. EXECUTION REQUIREMENTS SHALL MATCH THOSE FOR UTP WIRING, ABOVE.

GENERAL REQUIREMENTS:

1. INSTALL ALL COMPONENTS IN ACCORDANCE WITH MANUFACTURER DIRECTIONS.
2. ALL FACEPLATES SHALL BE INSTALLED FLUSH, TRIM, AND LEVEL, WITH LESS THAN 1/8-INCH DEVIATION.
3. ALL GROMMET OPENINGS SHALL BE CHECKED TO PREVENT DAMAGE TO THE CABLE JACKETING FROM EITHER BACK BOX KNOCKOUTS, CONDUIT ENDS, OR OTHER SHARP EDGES.
4. PROTECT ALL EQUIPMENT FROM DAMAGE. IF ANY ITEM IS MARRED OR DAMAGED, REPORT THIS TO THE GC AND REPAIR OR REPLACE ALL AFFECTED COMPONENTS UNTIL TURNOVER.
5. CEILING-MOUNTED DEVICES OF ANY TYPE SHALL BE ANCHORED TO STRUCTURE, AND NOT REST FULLY OR PARTIALLY SUPPORTED ON CEILING GRID OR TILES. SECURE PENCIL ROD ATTACHMENTS SHALL BE MADE TO STRUCTURE AND TO THE DEVICE.
6. FOR EACH LOCATION MARKED AS "AVP" ON THE DRAWINGS, THE AVIC SHALL FURNISH AND INSTALL A TWO-GANG DECORA®-STYLE FACEPLATE FEATURING A SPLIT-BRUSHED, GROMMETED OPENING (COLOR SHALL BE COORDINATED WITH THE ARCHITECT PRIOR TO MAKING PURCHASES). THIS FACEPLATE SHALL SERVE ONLY AS A CABLING PASS-THROUGH. THE PRODUCT MAY CONSIST OF A LEVITON 41075-DBW, GE 87698, VANCO 120827, OR PRE-APPROVED EQUIVALENT
7. ALL DISPLAYS AND MOUNTING BRACKETS WILL BE OWNER-FURNISHED, AVIC-INSTALLED.

STREAMING MEDIA:

1. THIS FACILITY UTILIZES CRESTRON NVX-BASED TRANSMITTERS AND RECEIVERS IN MOST LOCATIONS. THE INTENT OF THE COUNTY IS TO UTILIZE ANY TRANSMITTER AS A POTENTIAL SOURCE FOR PROGRAMMING, AND ANY DEVICE WITH A RECEIVER TO SELECT A STREAM FOR CONTENT. IN EFFECT, THIS SHALL CREATE AN IN-HOUSE TELEVISION NETWORK, WITH THE ABILITY TO "TUNE" ANY DISPLAY TO ANY ACTIVE CHANNEL AND VIEW THE CONTENT BEING STREAMED. REFER TO THE AV-SERIES DRAWINGS FOR A LIST OF SOURCES ("CHANNELS") AND RECEIVERS.
2. NOT ALL INPUTS WILL BE ACTIVE AT ALL TIMES.
3. THE ROOM TYPES ARE AS FOLLOWS:
 - 3.1. EMERGENCY OPERATIONS CENTER (EOC) HAS NUMEROUS INPUTS AND DISPLAYS, AS WELL AS VIDEO AND AUDIO CONFERENCING
 - 3.1.1. EOC WALL DISPLAYS AND INPUTS
 - 3.1.2. EOC FLOOR INPUTS
 - 3.1.3. THE STORAGE ROOM ALSO FEATURES OWNER-FURNISHED, OWNER-INSTALLED LAPTOPS THAT WILL DISPLAY CRITICAL INFORMATION (SUCH AS RADAR, ALERTS, AND OTHER REAL-TIME WEBPAGES); EACH LAPTOP RECEIVES A TRANSMITTER
 - 3.2. GENERAL OFFICES FEATURE A LOCAL LAPTOP INPUT AND DISPLAY
 - 3.3. EXECUTIVE OFFICES FEATURE A LOCAL LAPTOP INPUT, DISPLAY, AND OWNER-FURNISHED CABLE TELEVISION RECEIVER
 - 3.4. BREAKOUT ROOMS AND CONFERENCE ROOMS RECEIVE A LOCAL LAPTOP INPUT AND DISPLAY AS WELL AS TOUCH PANEL
 - 3.5. A NUMBER OF OWNER-FURNISHED CABLE TELEVISION RECEIVERS SHALL BE PLACED IN NETWORK 045, AND EACH SHALL HAVE A TRANSMITTER SO THAT CABLE TELEVISION CAN BE STREAMED TO ANY ROOM.

EOC REQUIREMENTS:

1. THE EOC FEATURES AUDIO AND VIDEO CONFERENCING, THE ABILITY TO MONITOR MULTIPLE SCREENS WITH DYNAMICALLY CHANGED INPUTS, PRESENTATION CAPABILITIES, AND SERVES MOST CRITICAL FUNCTIONS OF THE FACILITY.
2. SIX (6) OWNER-FURNISHED, AVIC-INSTALLED DISPLAYS PROVIDE THE PRIMARY VIDEO OUTPUT. ALL DISPLAYS SHALL BE MOUNTED LEVEL AND CENTERED AS SHOWN IN THE DRAWINGS SO THAT ALL CABLES AND CORDS, BACK BOXES, FACEPLATES, AND OTHER MOUNTING ELEMENTS OR DEVICES ARE FULLY CONCEALED BEHIND THE RESPECTIVE DISPLAY. VERIFY THE PROPOSED MOUNT SOLUTION IS DESIGNED TO HOLD DISPLAYS OF THIS CLASS AND WEIGHT. ENSURE THE MOUNTED DISPLAYS ARE NOT SUBJECT TO WOBBLE OR VIBRATION, AND THAT ALL MOUNTING HARDWARE WAS USED AS DIRECTED.
3. FOR AUDIOVISUAL INPUT TRANSMITTERS ("AVX"), FURNISH AND INSTALL A SINGLE-GANG DECORA®-STYLE FACEPLATE (COLOR SHALL BE COORDINATED WITH THE ARCHITECT PRIOR TO MAKING PURCHASES). THE GANG POSITION SHALL CONSIST OF A CRESTRON

DM-TX-4KZ-100-C-1G TRANSMITTER. THESE SHALL BE LOCATED IN FLOORBOXES (BY OTHERS). THE AVIC SHALL FURNISH AND INSTALL 8G+ CABLING (SHIELDED CAT 6 F/UTP OR SCTP RATED AT 350 MHZ OR HIGHER) FROM THE TRANSMITTER TO NETWORK 045. THE DESIGN INTENT IS THAT A USER LAPTOP (BY OTHERS), USING EITHER HDMI OR DISPLAYPORT CAN CONNECT TO THIS TRANSMITTER, AND HAVE ITS VIDEO AND AUDIO OUTPUT ROUTED THROUGH THE SYSTEM.

4. FURNISH AND INSTALL A CRESTRON DM-NVX-E760C CARD IN NETWORK 045 FOR EACH "AVX" TRANSMITTER, SO THAT ITS PROGRAMMING IS ABLE TO BE STREAMED AS A "CHANNEL."
5. BELOW EACH DISPLAY, FURNISH AND INSTALL A DECORA®-STYLE WALL PLATE WITH AN HDMI INSERT. EXTEND AN HDMI CABLE FROM THE WALL PLATE TO THE FLAT PANEL DISPLAY, UTILIZING THE "AVP" PASSTHROUGH BEHIND THE DISPLAY. KEEP ALL CABLING CONCEALED, AND ENSURE THE WALL PLATE IS LEVEL AND THE INSERT FLUSH TO THE WALL PLATE.
6. FULLY CONCEALED BEHIND EACH DISPLAY, FURNISH AND INSTALL A CRESTRON AM-200 AIRMEDIA UNIT. THE AVIC SHALL ALSO INSTALL THE LATEST CRESTRON FIRMWARE AND SUPPORTING SOFTWARE TO ENSURE THE SYSTEM IS CURRENT. VERIFY WIRELESS CONNECTIVITY BETWEEN A TYPICAL LAPTOP LOCATION AND THE AM-200 UNIT. CONFIGURE THE UNIT TO REFLECT THE 10.X.X.X URL IN THE SCREEN (VIA STREAMING, AS NOTED BELOW), AND PERFORM A TEST TO ENSURE THAT A LAPTOP CAN ACCESS THE AIRMEDIA FOR PRESENTATION AND CONTENT SHARING (VIEWING A TEST PRESENTATION ON A GUEST LAPTOP OR OTHER SMART DEVICE).
7. FULLY CONCEALED BEHIND EACH DISPLAY, FURNISH AND INSTALL A CRESTRON DM-NVX-E30, CONNECTING ITS HDMI INPUT TO THE AM-200 OUTPUT, AND ITS LAN CONNECTION TO ONE OF THE NETWORK JACKS BEHIND THE DISPLAY. ANY CONTENT EXITING THE AM-200 (LOCAL HDMI JACK OR WIRELESS HD CONNECTION) SHALL STREAM ONTO THE NETWORK AS A "CHANNEL."
8. FULLY CONCEALED BEHIND EACH DISPLAY, FURNISH AND INSTALL A CRESTRON DM-NVX-360, CONNECTING ITS HDMI OUTPUT TO THE DISPLAY, AND ITS LAN CONNECTION TO ONE OF THE NETWORK JACKS BEHIND THE DISPLAY. THIS DISPLAY CAN THEN RECEIVE ANY SOURCE ON THE STREAMING NETWORK. BY DEFAULT, EACH DISPLAY'S "CHANNEL" SHALL BE THE AM-200 CONCEALED BEHIND IT.
9. IN STORAGE ROOM 015, THE OWNER WILL PROVIDE LAPTOPS, EACH VIEWING A DIFFERENT WEB SITE FOR LOCAL NEWS, WEATHER, EMERGENCY CONDITIONS, AND SO ON. FURNISH AND INSTALL SIX (6) CRESTRON DM-NVX-E30 TRANSMITTERS, CONNECTED VIA HDMI TO THE LAPTOPS AND TO THE NETWORK JACKS PROVIDED BY OTHERS FOR THEM. THE OUTPUT OF ANY LAPTOP THEREBY BECOMES A "CHANNEL" ON THE STREAMING NETWORK.
10. FOR ALL LOCATIONS SHOWN AS CEILING MICROPHONES, FURNISH AND INSTALL SHURE MXA 910-SERIES MICROPHONES, SUSPENDED FROM THE CEILING STRUCTURE VIA PENDANT MOUNT. CONFIRM EXACT MOUNTING OPTIONS, FINAL MOUNTING HEIGHT, AND COLORS WITH THE ARCHITECT PRIOR TO FINAL ORDERING. FURNISH AND INSTALL DANTE-BASED CATEGORY 6 CABLE TO THE HEAD END SYSTEM. PRIOR TO COMPILING FINAL PROGRAMMING, CONFIRM LIVE/MUTE LED COLORS WITH THE OWNER, PICKUP PATTERNS, AND PRESETS FOR EACH ROOM.
11. FURNISH AND INSTALL ONE (1) WHITE QSC QSYS PTZ 12X72 CAMERA AND MOUNTING BRACKET AS SHOWN IN THE EOC. OTHERS WILL PROVIDE A CAT 6 CABLE TO THE HEAD END FOR CONNECTION. ENSURE THE CAMERA IS LEVEL, AND THAT THE LENS HEIGHT MATCHES THE FINISHED HEIGHT SHOWN IN THE AV-SERIES DRAWINGS.
12. FURNISH AND INSTALL A WIRELESS KEYBOARD AND TRACKPAD UNIT FOR A PRESENTER AT THE TABLE. CONNECT ITS RF-BASED RECEIVER INTO A USB EXTENDER, SO THAT THE USB CONNECTION CAN REACH THE USB PORT ON THE OWNER-FURNISHED PC IN NETWORK 045 (DESCRIBED LATER). THE KEYBOARD SHALL BE BLACK IN COLOR AND FEATURE A RANGE OF 10m OR MORE. PLACE THIS ON THE CONFERENCE TABLE.
13. FURNISH AND INSTALL A CRESTRON TST-902 CONTROL PANEL FOR THE ROOM, POSITIONED ON A WORK SURFACE WITHIN THE ROOM. FURNISH AND INSTALL A CRESTRON CEN-GWEXER WIRELESS GATEWAY BEHIND THE FLAT PANEL DISPLAY WITH A LAN CONNECTION AS SHOWN ON THE AV-SERIES DRAWINGS. COORDINATE THE COLOR OF THE PANEL WITH THE ARCHITECTS PRIOR TO FINAL ORDERING. THE PANEL SHALL SERVE AS THE MEANS OF CONTROL FOR ALL AUDIOVISUAL SYSTEMS IN THIS ROOM. THE INTERFACE IS DESCRIBED IN ITS OWN REQUIREMENT SECTION, FOLLOWING.
14. FURNISH AND INSTALL COMPACT WHITE PENDANT CEILING SPEAKERS (JBL CONTROL 65P/T OR EQUIVALENT) AS SHOWN. UTILIZE POSITIVE-LOCKING CONNECTORS AND FURNISH AND INSTALL APPROPRIATELY GAUGED SPEAKER WIRE BACK TO THE HEAD END. CARE MUST BE TAKEN TO ENSURE EVEN SOUND DISTRIBUTION WITHOUT CONFLICTING WITH EXISTING LIGHTING OR CEILING FINISH MATERIALS. SPEAKERS WILL NOT BE USED FOR ANY OVERHEAD PAGING. TEST ALL SPEAKERS USING A SWEEP SINE WAVE AT ONE-HALF OF THE DEVICE'S RATED POWER. USE A FREQUENCY SWEEP TEST FROM 50 Hz TO 20 KHz TO DETECT AND CORRECT ANY BUZZING, RATTLING, OR VIBRATION NOISE. IF SPEAKERS HAVE LOGOS, INSIGNIA, OR DECALS, ENSURE ALL SPEAKERS ARE VISUALLY ORIENTED THE SAME WAY. UTILIZE CEILING ANCHORS OR SECURELY AFFIX TO BUILDING STRUCTURE. ALL CEILING SPEAKERS SHALL BE INSTALLED TO THE SAME FINISHED HEIGHT ABOVE THE FLOOR, AT THE SAME LEVEL OF THE LOWEST PERMANENTLY INSTALLED CEILING ELEMENTS UNLESS DIRECTED OTHERWISE BY THE ARCHITECT. CONFIRM COLOR WITH ARCHITECT PRIOR TO FINAL ORDERING.
15. MANY OF THE EOC'S HEAD END COMPONENTS SHALL BE LOCATED IN NETWORK 045:
 - 15.1. DANTE SWITCH, FURNISH AND INSTALL A PoE-CAPABLE DANTE-READY 10/100/1000 ETHERNET SWITCH IN THE HEAD END CABINET TO SUPPORT LAN-CONNECTED DEVICES AS SHOWN IN THE SCHEMATIC CONNECTIVITY DRAWING FOR THIS ROOM. WORK WITH OWNER FOR NETWORK CONNECTIVITY REQUIREMENTS.
 - 15.2. DIGITAL AUDIO PROCESSOR. THE AVIC SHALL FURNISH AND INSTALL A QSC Q-SYS CORE 110F AUDIO PROCESSOR TO SUPPORT LINE AND MIC AUDIO IN THE ROOM, ACOUSTICAL ECHO CANCELLATION, ADJUST AND MIX AUDIO LEVELS, AND PROVIDE POTS-BASED AUDIO CONFERENCING IN THE ROOM AS COORDINATED WITH THE OWNER'S IT TEAM. REFER TO SCHEMATIC CONNECTIVITY DRAWINGS FOR APPROXIMATE NUMBER OF INPUTS AND OUTPUTS, AND OTHER CONNECTIONS NECESSARY TO CONFIGURE. THE AVIC SHALL BE OTHERWISE RESPONSIBLE FOR THE PROCESSOR CONFIGURATION AND PROGRAMMING AND SUBSEQUENT AUDIO QUALITY OF THE FINISHED ROOM.
 - 15.3. NVX DIRECTOR. FURNISH AND INSTALL A CRESTRON NVX DIRECTOR TO MANAGE THE NVX TRANSMITTERS AND RECEIVERS THROUGHOUT THE SPACE. LOCATE THIS DEVICE IN THE HEAD END CABINET. WORK WITH OWNER FOR NETWORK CONNECTIVITY REQUIREMENTS.

15.4. OWNER-FURNISHED PC. THE OWNER WILL PROVIDE A PERSONAL COMPUTER TO BE INCORPORATED INTO THE SIGNAL FLOW AND PROGRAMMING OF THE ROOM TO HOST VIDEO CONFERENCES REMOTELY VIA THE WIRELESS KEYBOARD AND MOUSE IN THE EOC. THE AVIC SHALL CONNECT THE PC INTO THE AUDIOVISUAL HEAD END ONLY, AND IS NOT RESPONSIBLE TO INSTALL SOFTWARE, MAINTAIN COMPONENTS, OR PROVIDE LICENSING FOR THIS SYSTEM UNLESS OTHER ARRANGEMENTS ARE MADE DIRECTLY WITH THE OWNER. UPON RECEIPT, DOCUMENT THE CONDITION OF THE ITEM AND VERIFY ITS FUNCTIONALITY BEFORE TAKING RESPONSIBILITY OF THE UNIT. NOTIFY THE OWNER OF ANY CONCERNS OR DEFICIENCIES DISCOVERED.

15.5. CONTROL PROCESSOR. FURNISH AND INSTALL A CRESTRON CP4 CONTROL PROCESSOR TO MANAGE THE PROGRAMMING OF THE EOC AND STREAMING NETWORK SOLUTION. LOCATE THIS DEVICE IN THE HEAD END CABINET. WORK WITH OWNER FOR NETWORK CONNECTIVITY REQUIREMENTS.

15.6. USB BRIDGE. FURNISH AND INSTALL A QSC QSYS USB BRIDGE BETWEEN THE OWNER-FURNISHED PC AND THE DANTE SWITCH SO THAT THE PC CAN REMOTELY SEND AND RECEIVE VIDEO AND AUDIO FROM THE EOC ON A CONFERENCE.

15.7. TRANSMITTER AND RECEIVER. FURNISH AND INSTALL TWO (2) CRESTRON DM-NVX-360 UNITS, LOCATED IN THE HEAD END:

15.7.1. ONE SHALL ACT AS A TRANSMITTER, TO SEND THE OUTPUT OF THE OWNER-FURNISHED PC'S HDMI OUTPUT TO THE STREAMING NETWORK. THIS TRANSMITTER SHALL ALSO STREAM THE MASTER AUDIO OUT OF THE QSC Q-SYS PROCESSOR, SO THAT ALL AUDIO FROM THE EOC IS STREAMED AS A CHANNEL PAIRED WITH THE PC'S VIDEO CONTENT.

15.7.2. ONE SHALL ACT AS A RECEIVER, SO THAT ANY AUDIO SENT FROM A NON-EOC TRANSMITTER MAY BE HEARD OVER THE PENDANT SPEAKERS IN THE EOC. FOR EXAMPLE, AN AUDIO FEED FROM ONE OF THE LAPTOPS IN STORAGE 015 MAY NEED TO BE HEARD IN THE EOC; THIS RECEIVER MAKES THAT POSSIBLE.

15.8. AMPLIFIER. FURNISH AND INSTALL A CRESTRON AMP-150-70 TO SEND OUTPUT FROM THE QSC QSYS PROCESSOR TO THE PENDANT SPEAKERS IN THE EOC. LOCATE THIS DEVICE IN THE HEAD END CABINET.

BREAKOUT AND CONFERENCE ROOM REQUIREMENTS:

1. BREAKOUT AND CONFERENCE ROOMS FUNCTION IDENTICALLY (WITH THE EXCEPTION OF A SUNBAR IN CONFERENCE ROOMS). EACH TYPE OF ROOM SUPPORTS HDMI AND AIRMEDIA FED TO AN NVX TRANSMITTER; EACH OWNER-FURNISHED DISPLAY HAS A RECEIVER BEHIND IT, WHICH CAN BE "TUNED" TO ANY STREAMING "CHANNEL."
2. OWNER-FURNISHED, AVIC-INSTALLED DISPLAYS PROVIDE THE PRIMARY VIDEO OUTPUT. ALL DISPLAYS SHALL BE MOUNTED LEVEL AND CENTERED AS SHOWN IN THE DRAWINGS SO THAT ALL CABLES AND CORDS, BACK BOXES, FACEPLATES, AND OTHER MOUNTING ELEMENTS OR DEVICES ARE FULLY CONCEALED BEHIND THE RESPECTIVE DISPLAY. VERIFY THE PROPOSED MOUNT SOLUTION IS DESIGNED TO HOLD DISPLAYS OF THIS CLASS AND WEIGHT. ENSURE THE MOUNTED DISPLAYS ARE NOT SUBJECT TO WOBBLE OR VIBRATION, AND THAT ALL MOUNTING HARDWARE WAS USED AS DIRECTED.
3. FULLY CONCEALED BEHIND EACH DISPLAY, FURNISH AND INSTALL A CRESTRON AM-200 AIRMEDIA UNIT. THE AVIC SHALL ALSO INSTALL THE LATEST CRESTRON FIRMWARE AND SUPPORTING SOFTWARE TO ENSURE THE SYSTEM IS CURRENT. VERIFY WIRELESS CONNECTIVITY BETWEEN A TYPICAL LAPTOP LOCATION AND THE AM-200 UNIT. CONFIGURE THE UNIT TO REFLECT THE 10.X.X.X URL IN THE SCREEN (VIA STREAMING, AS NOTED BELOW), AND PERFORM A TEST TO ENSURE THAT A LAPTOP CAN ACCESS THE AIRMEDIA FOR PRESENTATION AND CONTENT SHARING (VIEWING A TEST PRESENTATION ON A GUEST LAPTOP OR OTHER SMART DEVICE).
4. AT THE TABLE, FURNISH AN AUDIOVISUAL INTERFACE CONSISTING OF ONE (1) HDMI CABLE ATTACHED TO A FURNITURE-BASED INPUT; THIS INPUT WILL BE SELECTED BY THE FURNITURE DEALER, BUT IS EXPECTED TO CONSIST OF A KEYSTONE-STYLE PASS-THROUGH INSERT. FURNISH AND INSTALL A SIX-FOOT (6') CABLE FOR THE USER'S DEVICE, CONNECTED TO THE HDMI INPUT. THE AVIC WILL CONFIRM THE NATURE OF THIS CONNECTION PRIOR TO ORDERING, AS TABLE CONNECTIONS FURNISHED AND INSTALLED BY OTHERS MAY CHANGE. ADDITIONALLY, FURNISH AND INSTALL A BLACK HDMI CABLE FROM THE TABLE INTERFACE AND CONNECT THIS CORD FROM THIS INTERFACE TO THE AM-200'S HDMI INPUT JACK, KEEPING THE CABLE CONCEALED BELOW THE TABLE AND IN CONDUIT THE ENTIRE WAY: FEED THE CABLING TIGHT UNDERNEATH THE TABLE TOP INTO THE CONDUIT, AND THEN EXTEND THIS UP AND OUT THROUGH THE "AVP" DIRECTLY INTO THE AM-200.
5. FULLY CONCEALED BEHIND EACH DISPLAY, FURNISH AND INSTALL A CRESTRON DM-NVX-E30, CONNECTING ITS HDMI INPUT TO THE AM-200 OUTPUT, AND ITS LAN CONNECTION TO ONE OF THE NETWORK JACKS BEHIND THE DISPLAY. ANY CONTENT EXITING THE AM-200 (LOCAL HDMI JACK OR WIRELESS HD CONNECTION) SHALL STREAM ONTO THE NETWORK AS A "CHANNEL."
6. FULLY CONCEALED BEHIND EACH DISPLAY, FURNISH AND INSTALL A CRESTRON DM-NVX-360, CONNECTING ITS HDMI OUTPUT TO THE DISPLAY, AND ITS LAN CONNECTION TO ONE OF THE NETWORK JACKS BEHIND THE DISPLAY. THIS DISPLAY CAN THEN RECEIVE ANY SOURCE ON THE STREAMING NETWORK. BY DEFAULT, EACH DISPLAY'S "CHANNEL" SHALL BE THE AM-200 CONCEALED BEHIND IT.
7. IN CONFERENCE ROOMS SO DESIGNATED BY A KEYNOTE ON THE AV-SERIES DRAWINGS, FURNISH AND INSTALL A SOUND BAR TO THE UNDERSIDE OF THE FLAT PANEL DISPLAY, EITHER MOUNTED TO THE DISPLAY OR AFFIXED SECURELY TO THE WALL SURFACE. THE SOUND BAR SHALL INCLUDE AN IR REPEATER CABLE, MOUNTING BRACKET, AND ALL NECESSARY CONNECTOR CABLES. ALTHOUGH THE SOUND BAR MAY SUPPORT BATTERY POWER, THE INSTALLED SOUND BAR SHOULD NOT OPERATE OFF BATTERY. A SEPARATE SUBWOOFER IS NOT REQUIRED AND WILL NOT BE CONVENIENT TO LOCATE IN THE FINISHED SPACE.
8. IN EACH ROOM, FURNISH AND INSTALL A CRESTRON TS-1070 CONTROL PANEL AND FOOTSTAND, POSITIONING IT ON THE TABLE AT OR NEAR TURNOVER. COORDINATE THE COLOR WITH THE ARCHITECT. THE PANEL SHALL SERVE AS THE MEANS OF CONTROL OF ALL NETWORK STREAMING IN THAT ROOM, ALLOWING THE USER TO SELECT WHICH STREAMING SOURCE ("CHANNEL") SHALL DISPLAY ON THE SCREEN. THIS PANEL SHALL BE ABLE TO POWER ON/OFF THE DISPLAY AS WELL, AND RAISE, MUTE, AND LOWER THE VOLUME. EACH PANEL SHALL BE CONTROLLED BY THE CP4 PROCESSOR IN NETWORK 045, DESCRIBED PREVIOUSLY. ITS DEFAULT "CHANNEL" SHALL BE THE OUTPUT OF THE AIRMEDIA IN THAT ROOM. PROVIDE TEN FEET (10') OF SLACK FOR THE CABLE SO THAT THE PANEL CAN BE REPOSITIONED AS NEEEDED BY THE OWNER AFTER TURNOVER. THE INTERFACE IS DESCRIBED IN ITS OWN REQUIREMENT SECTION, FOLLOWING.

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DANE COUNTY EMERGENCY
 MANAGEMENT REMODEL
 5415 KING JAMES WAY
 FITCHBURG, WISCONSIN

NOT FOR CONSTRUCTION

ISSUE RECORD	
1	ISSUE FOR BID 08-01-21

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AUDIOVISUAL
 REQUIREMENTS
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 AVO.3

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Small signature

OFFICE REQUIREMENTS:

- OFFICES FEATURE OWNER-FURNISHED DISPLAYS, AN HDMI INPUT AND AIRMEDIA, AS WELL AS THE ABILITY TO TRANSMIT AND RECEIVE STREAMED MEDIA. SOME OFFICES (NOTED IN THE DRAWINGS) RECEIVE LOCAL CABLE TELEVISION RECEIVERS BY OWNER.
- OWNER-FURNISHED, AVIC-INSTALLED DISPLAYS PROVIDE THE PRIMARY VIDEO OUTPUT. ALL DISPLAYS SHALL BE MOUNTED LEVEL AND CENTERED AS SHOWN IN THE DRAWINGS SO THAT ALL CABLES AND CORDS, BACK BOXES, FACEPLATES, AND OTHER MOUNTING ELEMENTS OR DEVICES ARE FULLY CONCEALED BEHIND THE RESPECTIVE DISPLAY. VERIFY THE PROPOSED MOUNT SOLUTION IS DESIGNED TO HOLD DISPLAYS OF THIS CLASS AND WEIGHT. ENSURE THE MOUNTED DISPLAYS ARE NOT SUBJECT TO WOBBLE OR VIBRATION, AND THAT ALL MOUNTING HARDWARE WAS USED AS DIRECTED.
- FULLY CONCEALED BEHIND EACH DISPLAY, FURNISH AND INSTALL A CRESTRON AM-200 AIRMEDIA UNIT. THE AVIC SHALL ALSO INSTALL THE LATEST CRESTRON FIRMWARE AND SUPPORTING SOFTWARE TO ENSURE THE SYSTEM IS CURRENT. VERIFY WIRELESS CONNECTIVITY BETWEEN A TYPICAL LAPTOP LOCATION AND THE AM-200 UNIT. CONFIGURE THE UNIT TO REFLECT THE 10.X.X.X URL IN THE SCREEN (VIA STREAMING, AS NOTED BELOW), AND PERFORM A TEST TO ENSURE THAT A LAPTOP CAN ACCESS THE AIRMEDIA FOR PRESENTATION AND CONTENT SHARING (VIEWING A TEST PRESENTATION ON A GUEST LAPTOP OR OTHER SMART DEVICE).
- FURNISH AND INSTALL A DECORA®-STYLE WALL PLATE WITH AN HDMI INSERT. EXTEND AN HDMI CABLE FROM THE WALL PLATE TO THE FLAT PANEL DISPLAY, UTILIZING THE "AVP" PASSTHROUGH BEHIND THE DISPLAY. KEEP ALL CABLING CONCEALED, AND ENSURE THE WALL PLATE IS LEVEL AND THE INSERT FLUSH TO THE WALL PLATE.
- FULLY CONCEALED BEHIND EACH DISPLAY, FURNISH AND INSTALL A CRESTRON DM-NVX-E30, CONNECTING ITS HDMI INPUT TO THE AM-200 OUTPUT, AND ITS LAN CONNECTION TO ONE OF THE NETWORK JACKS BEHIND THE DISPLAY. ANY CONTENT EXITING THE AM-200 (LOCAL HDMI JACK OR WIRELESS HD CONNECTION) SHALL STREAM ONTO THE NETWORK AS A "CHANNEL."
- FULLY CONCEALED BEHIND EACH DISPLAY, FURNISH AND INSTALL A CRESTRON DM-NVX-360, CONNECTING ITS HDMI OUTPUT TO THE DISPLAY, AND ITS LAN CONNECTION TO ONE OF THE NETWORK JACKS BEHIND THE DISPLAY. THIS DISPLAY CAN THEN RECEIVE ANY SOURCE ON THE STREAMING NETWORK. BY DEFAULT, EACH DISPLAY'S "CHANNEL" SHALL BE THE AM-200 CONCEALED BEHIND IT.
- THE OWNER WILL PROVIDE A CABLE TELEVISION RECEIVER TO BE CONCEALED BEHIND THE DISPLAY SO THAT TELEVISION PROGRAMMING CAN BE SEEN BY THE AUDIENCE, WITH AUDIO. THE AVIC SHALL CONNECT THE RECEIVER INTO THE DISPLAY, AND IS NOT RESPONSIBLE TO PROVIDE LICENSING OR SERVICES FOR THIS SYSTEM UNLESS OTHER ARRANGEMENTS ARE MADE DIRECTLY WITH THE OWNER. UPON RECEIPT, DOCUMENT THE CONDITION OF THE RECEIVER AND VERIFY ITS FUNCTIONALITY BEFORE TAKING RESPONSIBILITY OF THE UNIT. NOTIFY THE OWNER OF ANY CONCERNS OR DEFICIENCIES DISCOVERED. FURNISH AND INSTALL AN INFRARED RECEIVER AND SECURE IT TO THE UNDERSIDE OF THE DISPLAY WITH AUDIOVISUAL TAPE SO THAT THE INFRARED RECEIVER DOES NOT DISCONNECT OVER TIME. CONNECT THE INFRARED RECEIVER INTO THE TELEVISION RECEIVER AND VERIFY THAT SIGNALS FROM THE CABLE REMOTE CONTROL OPERATE CORRECTLY ON THE DISPLAY. CABLE TELEVISION SHALL BE CONTROLLED BY LOCAL REMOTE, AND SHALL NOT BE TIED TO THE CONTROL SYSTEM NOR INCORPORATED INTO THE STREAMING NETWORK.
- FURNISH AND INSTALL AN HDMI-BASED APPLICATION FOR EACH OFFICE USER, SO THAT THE USER CAN--FROM HIS OR HER LAPTOP IN THE ROOM--DO THE FOLLOWING:
 - POWER ON/OFF THE DISPLAY
 - RAISE/MUTE/LOWER ITS VOLUME
 - SELECT WHICH STREAMING "CHANNEL" TO RECEIVE
 - DEFAULT TO THE LOCAL AIRMEDIA BEHIND THE RESPECTIVE DISPLAY
 - SWITCH INPUTS TO THE CABLE TELEVISION RECEIVER (IN OFFICES EQUIPPED WITH THE OWNER-FURNISHED RECEIVER ONLY)

NETWORK 045 REQUIREMENTS:

- AS NETWORK 045 SERVES AS THE HUB FOR THE NETWORK STREAMING SYSTEM, SOME ADDITIONAL SCOPE IS REQUIRED BEYOND THE EOC HEAD END COMPONENTS.
- FURNISH AND INSTALL AN AUDIOVISUAL RACK IN THE HEAD END. THE RACK SHALL BE ABLE TO ACCOMMODATE ALL MOUNTED EQUIPMENT, WITH SPACE IN THE REAR FOR POWER CORDS AND CABLE ROUTING. ALL COMPONENTS SHALL BE FROM THE SAME MANUFACTURER AND THE SAME COLOR. THE RACK SHALL HAVE A FINISHED TOP, SIDES, AND DOOR. POSITION THE RACK IN THE SPACE AS REQUIRED, ENSURING THAT DOORS OPEN AND CLOSE FULLY, AND THAT CABLES AND WIRING NEATLY DRESS DOWN THE BACK OF THE RACK WITHOUT BEND RADII BEING EXCEEDED, AND THAT THE RACK DOES NOT DAMAGE NOR IS IN JEOPARDY OF BEING DAMAGED BY OTHER EQUIPMENT IN THE IMMEDIATE VICINITY. DO NOT TIE OR SECURE POWER CORDS TO THE FRAME OF THE RACK SO THAT WORKING ON ONE DEVICE DOES NOT PULL THE PLUG OUT FROM ANOTHER DEVICE. ENSURE THAT CABLES AND CORDS DO NOT CREATE AN AIR DAM IN THE REAR OF THE RACK FOR HEAT REJECTION. THE RACK SHALL BE THOROUGHLY CLEANED OF DUST AND CONSTRUCTION DEBRIS, AND REMOVE ALL LABEL BACKINGS, WIRE TRIMMINGS, TIE-WRAP PIECES, AND OTHER RESIDUE.
- FURNISH AND INSTALL A MIDDLE ATLANTIC UQFP-4 OR EQUIVALENT; EQUIVALENTS SHALL NOT BE MORE THAN TWO (2) RACK UNITS IN HEIGHT AND SHALL FEATURE FOUR (4) QUIET FANS. PLACE THE FAN KIT AT THE TOP OF THE HEAD END, LOCATED TOWARD THE REAR SO THAT HEAT IS REJECTED OUT THE BACK. THE KIT SHALL BE INSTALLED LEVEL WITHIN THE HEAD END. ENSURE THE THERMOSTATIC START POINT IS SET TO 81°.
- FURNISH AND INSTALL A MIDDLE ATLANTIC PD-915R POWER DISTRIBUTION UNIT (OR SINGLE RACK UNIT EQUIVALENT) FOR THE HEAD END RACK. INSTALL THE POWER SUPPLY IN THE REAR OF THE RACK, TOWARD THE BOTTOM BUT NOT IN CONFLICT WITH WIRING OR OTHER EQUIPMENT.
- THE OWNER WILL PROVIDE FIVE (5) CABLE TELEVISION RECEIVERS TO BE INCORPORATED INTO THE SIGNAL FLOW AND PROGRAMMING OF THE STREAMING NETWORK, WITH AUDIO. THE AVIC SHALL CONNECT THE RECEIVERS INTO THE NVX TRANSMITTERS, AND IS NOT RESPONSIBLE TO PROVIDE LICENSING OR SERVICES FOR THIS SYSTEM UNLESS OTHER ARRANGEMENTS ARE MADE DIRECTLY WITH THE OWNER. UPON RECEIPT, DOCUMENT THE CONDITION OF EACH RECEIVER AND VERIFY ITS FUNCTIONALITY BEFORE TAKING RESPONSIBILITY OF THE UNIT. NOTIFY THE OWNER OF ANY CONCERNS OR DEFICIENCIES DISCOVERED.

- FURNISH AND INSTALL A RACK-MOUNTED CRESTRON CARD CHASSIS FOR THE DM-NVX-E760C CARDS AND CONNECT THIS TO THE NETWORK FOR DISTRIBUTION. THIS CHASSIS SUPPORTS THE TRANSMITTERS FOR THE EOC FLOOR INPUTS AND CATV RECEIVERS.
- FURNISH AND INSTALL A CRESTRON DM-NVX-E760C CARD IN NETWORK 045 FOR EACH OWNER-FURNISHED CABLE TELEVISION RECEIVER, SO THAT ITS PROGRAMMING IS ABLE TO BE STREAMED AS A "CHANNEL."

AUDIOVISUAL SYSTEM IDENTIFICATION:

- THE AVIC SHALL THOROUGHLY LABEL THE ENTIRE AUDIOVISUAL SYSTEM FOR FUTURE MAINTAINABILITY.
- EACH DEVICE SHALL BE GIVEN A UNIQUE IDENTIFIER AND LABELED ACCORDINGLY.
- LABELS SHALL MEET THE LEGIBILITY, EXPOSURE DEFACEMENT AND ADHESION REQUIREMENTS OF UL969.
- LABELS SHALL BE PREPRINTED OR PRINTED BY A COMPUTER. LABELS WRITTEN BY HAND ARE NOT ACCEPTABLE.
- ALL REFERENCES TO THIS DEVICE IN AVIC-PREPARED DOCUMENTATION, DRAWINGS, AND LABELS SHALL BE CONSISTENT, EXCEPT:
 - O&M MANUALS OR GENERIC DOCUMENTATION
 - TRAINING MATERIALS, WHICH SHOULD USE NAMES RECOGNIZABLE TO THE USER, RATHER THAN MANUFACTURER NAMES AND PART NUMBERS.
 - CONTROL SYSTEM INTERFACES SHALL ALSO USE MATCHING NAMES.
- RECORD DRAWINGS SHALL INDICATE THE DEVICE IDENTIFIER, AND BE IN AGREEMENT BETWEEN THE DRAWINGS AND THE LABELS ON THE EQUIPMENT OR LABELS.
- ALL WIRES AND CABLES SHALL BE LABELED AT BOTH ENDS.

AUDIOVISUAL SYSTEM ADMINISTRATION:

- THE AVIC SHALL PROVIDE RECORD DRAWINGS IN AN AUTOCAD COMPATIBLE FORMAT OR IN PDF FORMAT.
- THE AVIC SHALL THOROUGHLY DOCUMENT THE ENTIRE AUDIOVISUAL SYSTEM FOR FUTURE MAINTAINABILITY AND TROUBLESHOOTING.
- PRIOR TO TURNOVER, THE AVIC SHALL PROVIDE THE OWNER A DETAILED TECHNICAL SPECIFICATION FOR ANY SERVER, REAL OR VIRTUALIZED, RUNNING MANAGEMENT APPLICATIONS. THIS SHALL INCLUDE ANY ADDITIONAL SOFTWARE, SUCH AS BROWSER OR SQL DATABASE, REQUIREMENTS UNLESS THE AVIC IS FURNISHING THAT SERVER AS PART OF THEIR PROPOSED PACKAGE. THE AVIC SHALL SO NOTE WHETHER OR NOT SERVER HARDWARE OR SOFTWARE IS BEING PROVIDED CLEARLY IN THE BID RESPONSE.
- DOCUMENTATION SHALL INCLUDE BUT NOT BE LIMITED TO:
 - AUTOCAD OR PDF SCALE DRAWINGS OF THE PROJECT (BACKGROUNDS AVAILABLE FROM SENTINEL) CLEARLY SHOWING:
 - PRECISE DEVICE LOCATIONS AND IDENTIFICATION NUMBERS
 - APPROXIMATE PATHWAYS OF HORIZONTAL CABLE RUNS TO THEIR NEAREST POINTS OF TERMINATION
 - PRECISE LOCATIONS OF INSTALLED PULL BOXES, JUNCTION BOXES, AND ENCLOSURES RELATED TO ANY AUDIOVISUAL CONDUITS THAT MAY BE INSTALLED
 - CONDUIT SIZES FOR ANY CONDUIT ABOVE THREE QUARTER INCH (3/4") IN SIZE (IF USED)
 - DETAILED ELEVATION VIEWS OF ANY WALL-MOUNTED EQUIPMENT, INCLUDING BUT NOT LIMITED TO CONTROL PANELS AND HEAD END CABINETS
 - SINGLE-LINE DIAGRAMS
 - COMPILED AND NON-COMPILED CODE AND PROGRAMMING. THE COUNTY STRICTLY REQUIRES THAT ALL CONTROL CODE BE SUBMITTED, AT A MINIMUM, IN NON-COMPILED FORMAT FOR LATER MODIFICATIONS.
 - PRODUCT CUT SHEETS, SHOP DRAWINGS, ETC.
 - DOCUMENTATION SHALL BE SUBMITTED TO THE OWNER PRIOR TO FINAL PAYMENT.

AUDIOVISUAL SYSTEM TESTING:

- REVIEW ALL TESTING REQUIREMENTS AS DESCRIBED IN THIS REQUIREMENT FOR EACH TYPE OF PRODUCT LISTED.
- ALL DEVICES SHALL BE TESTED FOR CORRECT FUNCTIONALITY AS RECOMMENDED BY THE RESPECTIVE MANUFACTURER.
- ALL WIRING SHALL BE TESTED FOR WIREMAP, WHERE APPLICABLE, AND CONTINUITY.
- INSPECT FOR AND REPLACE ALL WIRES AND CABLES SUFFERING FROM DEFORMED, BRITTLE, OR CRACKED INSULATION, STRIPPING IN EXCESS OF 1/8-INCH FROM POINT OF CONNECTION, COLD SOLDER JOINTS, FLUX JOINTS, SOLDER SPLATTER, UN-GROMMETTED, UN-BUSHED, OR UN-INSULATED WIRE OR CABLE ENTRIES, DEFORMATION OR IMPROPER RADIUS BENDING.

FINAL ACCEPTANCE DEMONSTRATION:

- PRIOR TO TURNOVER, THE AVIC SHALL BE PROVIDE A FINAL ACCEPTANCE DEMONSTRATION TO THE OWNER THAT SHALL DEMONSTRATE AND PROVE THAT ALL GOALS OF THE REQUIREMENT AND DESIGN INTENT HAVE BEEN MET, EXCEPT WHERE AND IF MODIFIED BY THE PROJECT TEAM AND THE AVIC DURING INSTALLATION.
- THE DEMONSTRATION MUST BE SCHEDULED AT A DATE MUTUALLY AGREEABLE TO THE OWNER AND THE AVIC, AS AUDIOVISUAL SYSTEMS MAY, BY DESIGN OF THE OVERALL PROJECT SCHEDULE, STILL UNDERGO FINAL TESTING AND CONFIGURATION AFTER THE OFFICIAL DATE OF TURNOVER.
- THE DEMONSTRATION SHALL BE SUBSTANTIVE, BUT NOT EXHAUSTIVE. BASIC FUNCTIONALITY AND CAPABILITIES SHALL BE DEMONSTRATED; HOWEVER, THIS IS NOT

INTENDED TO BE AND SHALL NEITHER SERVE AS NOR CONSTITUTE A TRAINING SESSION.

- THE OWNER'S PERSONNEL SHALL DETERMINE WHICH FEATURES MUST BE DEMONSTRATED ON DEMAND DURING THE PRESENTATION. THE AVIC SHALL NOT BE RESPONSIBLE TO DEMONSTRATE ANY REQUESTS WHICH WERE NEVER PART OF THIS SPECIFICATION OR ANY DOCUMENTED DISCUSSIONS DURING INSTALLATION.
- THE AVIC WILL NOT BE EXPECTED TO DEMONSTRATE AN INCOMPLETE OR PARTIALLY INSTALLED SYSTEM.
- ITEMS WHICH ARE INCOMPLETE, OR FAIL TO OPERATE AS EXPECTED, OR LACK FINAL CONTROL PROGRAMMING, DURING THE DEMONSTRATION WILL BE NOTED. A FOLLOW-UP DEMONSTRATION MUST BE SCHEDULED SOLELY FOR THESE ITEMS.

TRAINING SESSIONS:

- THE AVIC SHALL PROVIDE TRAINING FOR THE OWNER PERSONNEL TO ENSURE KNOWLEDGE TRANSFER REGARDING DOCUMENTATION AND OPERATION OF THE AUDIOVISUAL SYSTEMS. THIS MAY CONSIST OF MULTIPLE TRAINING SESSIONS DEPENDING ON THE OWNER'S REQUIREMENTS NEAR CUTOVER.
- THE FINAL ACCEPTANCE DEMONSTRATION SHALL NOT COUNT AS A TRAINING SESSION; FURTHER, SYSTEMS SHALL BE 100% COMPLETE AND TESTED AND ACCEPTED PRIOR TO TRAINING. UNDER NO CIRCUMSTANCES SHALL TRAINING SESSIONS BY CONDUCTED USING INCOMPLETELY ASSEMBLED OR TESTED OR DEBUGGED SYSTEMS.
- THE OWNER WILL BE RESPONSIBLE TO IDENTIFY WHICH OF THEIR INDIVIDUALS MUST ATTEND TRAINING PRIOR TO SCHEDULING. ULTIMATELY, THE OWNER WILL DETERMINE THE DATES AND SESSIONS AT THEIR CONVENIENCE, PROVIDED THE SYSTEM HAS UNDERGONE FINAL ACCEPTANCE DEMONSTRATION.
- TRAINING SESSIONS SHALL EXIST FOR THREE GROUPS, CONDUCTED SEPARATELY:
 - FREQUENT USERS (BASIC OPERATION OF ROOM FUNCTIONS)
 - ADVANCED USERS (ENHANCED OR EXTENDED ROOM FUNCTIONS)
 - TECHNICAL SUPPORT (NETWORK, IT, DEDICATED AV, AND TECHNICAL STAFF, COVERING COMMON SUPPORT TOPICS AND CONFIGURATION INFORMATION)
- THE TRAINING SESSION SHALL NOT ATTEMPT TO COMBINE THESE THREE AREAS TO AVOID OVERWHELMING OR CONFUSING THE FREQUENT OR ADVANCED USERS.
- VIDEO RECORDING OF TRAINING TOPICS IS ENCOURAGED.
- TRAINING SHALL BE PROVIDED FOR EACH TYPE OF ROOM; ROOM-BY-ROOM TRAINING COVERING REPETITIVE PROCEDURES IS NOT REQUIRED.
- FOR EACH ROOM WITH INTEGRATED AUDIOVISUAL SYSTEMS INSTALLED BY THE AVIC, THE AVIC SHALL PROVIDE STEP-BY-STEP OPERATIONAL DIRECTIONS EITHER AS A BINDER OR, IF A SINGLE SHEET, LAMINATED PLACARD. THESE SHALL BE REVIEWED BY THE OWNER PRIOR TO TURNOVER.
- THE USE OF LAMINATED CARDS OR BINDERS, WHILE ACCEPTABLE AS "LEAVE-BEHINDS," SHALL NOT BE DEEMED AN ACCEPTABLE REPLACEMENT FOR TRAINING.
- THE AVIC SHALL FURNISH THESE DETAILED INSTRUCTIONS, INCLUDING SCREEN CAPTURES OR DIAGRAMS (AS APPROPRIATE) IN AN EDITABLE MICROSOFT WORD FORMAT SO THAT THE OWNER MAY REBRAND OR REFORMAT THE INSTRUCTION PACKET WITH THEIR FORMAT STANDARDS.
- THE AVIC SHALL NOT PROVIDE TRAINING FOR OWNER-FURNISHED OR IN-HOUSE TECHNOLOGIES NOT SUPPORTED BY NOR CONFIGURED BY THE AVIC.

CUTOVER SERVICES:

- BY DESIGN OF THE PROJECT SCHEDULE, THE OWNER UNDERSTANDS AND EXPECTS THAT NOT ALL AUDIOVISUAL SYSTEMS OR SERVICES MAY BE UNDERGOING FINAL INSTALLATION, CONFIGURATION, REFINEMENT, OR TESTING BY THE DATE OF THEIR OCCUPANCY. THEREFORE, PRIOR TO THE OWNER'S OCCUPANCY OF THE FACILITY, THE AVIC SHALL ISSUE A DETAILED LIST TO SENTINEL ANY AND ALL SYSTEMS WHICH WILL NOT BE FULLY OPERATIONAL BY THE MOVE-IN DATE, AS WELL AS AN EXPECTED DATE OF COMPLETION.
- AT THIS TIME, THE AVIC SHALL TURN OVER ALL MICROPHONES, REMOTE CONTROL DEVICES, KEYS TO LOCKED EQUIPMENT, AND ANY AND ALL ITEMS STORED BY THE AVIC FOR SAFEKEEPING, AS PREVIOUSLY DEFINED IN THIS REQUIREMENT.
- THE AVIC SHALL TURN OVER ALL OPERATIONS AND MAINTENANCE MANUALS IN THE QUANTITIES AND FORMATS DIRECTED BY THE GC. THE AVIC SHOULD EXPECT TO PROVIDE ONE PAPER COPY FOR EACH TYPE OF DEVICE, AND ELECTRONIC VERSIONS ON DISC TO REDUCE PAPER USAGE.
- CODE AND PROGRAMMING FOR THE CONTROL SYSTEMS, DEVICE DRIVERS, PATCHES, UPGRADES, ETC., SHALL BE SUBMITTED ON COMPACT DISC. ALL DISCS FOR PRODUCT SOFTWARE, BACKUPS, ETC., SHALL BE SUBMITTED IN A SINGLE BINDER DESIGNED TO HOLD COMPACT DISCS OR DVDS AND LABELED CLEARLY.
- AT CLOSEOUT, CLEAN OR RE-CLEAN ENTIRE WORK TO NORMAL LEVEL FOR "FIRST CLASS" MAINTENANCE/CLEANING OF BUILDING PROJECTS OF A SIMILAR NATURE. REMOVE NON-PERMANENT PROTECTION AND LABELS, CLEAN EXPOSED FINISHES, TOUCH-UP MINOR FINISH DAMAGE, REMOVE DEBRIS AND BROOM-CLEAN SPACES, SANITIZE WORK, AND PERFORM SIMILAR CLEANUP OPERATIONS NEEDED TO PRODUCE A CLEAN CONDITION.
- THE AVIC SHALL BE AVAILABLE FOR ON-SITE SUPPORT DURING AND IMMEDIATELY AFTER START-UP FOR A PERIOD OF 2 BUSINESS DAYS.

SUPPORT AND WARRANTY:

- THE AUDIOVISUAL SYSTEM SHALL BE END-TO-END CERTIFIED BY THE AVIC.
- AN EXTENDED MATERIAL, LABOR AND PERFORMANCE WARRANTY SHALL BE PROVIDED BY THE INSTALLER FOR PERIOD OF AT LEAST ONE (1) YEAR.
- THE AVIC SHALL PROVIDE ONGOING SUPPORT FOR WARRANTY WORK AS WELL AS MODIFICATIONS AND ENHANCEMENTS THAT MAY BE REQUIRED AS PART OF THAT WARRANTY.
- THE AVIC SHALL PROVIDE PRICING FOR OPTIONAL SERVICE CONTRACTS THAT WOULD

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 5415 KING JAMES WAY
 FITCHBURG, WISCONSIN

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ISSUE RECORD	
1	ISSUE FOR BID 08-01-21

CHECKED BY: _____
 TIF
 DRAWN BY: _____
 SENTINEL
 DATE: _____
 01-04-21
 PROJECT NUMBER: _____
 2020-001

AUDIOVISUAL REQUIREMENTS
 4
 AVO.4

SENTINEL
 2550 WARRENVILLE ROAD
 DOWNERS GROVE, ILLINOIS 60515
 630.769.4300
 www.sentinel.com

Bicsi
 REGISTERED COMMERCIAL CONTRACTOR
 LICENSED PROFESSIONAL ENGINEER
 REG. NO. 119867
 5/20/2018

EXTEND THE WARRANTY PERIOD OF THE INSTALLATION. TERMS SHALL INCLUDE ANY AND ALL BENEFITS OF THEIR WARRANTY.

5. THE AVIC SHALL REPAIR OR REPLACE ALL DEFECTIVE EQUIPMENT OR WORKMANSHIP (WITH NO COST TO THE OWNER) FOR A PERIOD OF ONE (1) YEAR FROM THE DATE OF THE ACCEPTANCE DEMONSTRATION, REGARDLESS OF WHEN THE EQUIPMENT WAS ORIGINALLY PURCHASED OR WORKMANSHIP PERFORMED BY THE AVIC. THE COMMENCEMENT DATE OF THE WARRANTY SHALL BEGIN AND ONLY BEGIN WITH THE ACCEPTANCE DEMONSTRATION.

6. ANY AND ALL EQUIPMENT FURNISHED AS PART OF THIS INSTALLATION SHALL BE WARRANTED FOR PARTS AND LABOR FOR ONE (1) YEAR OR THE ENTIRE SPAN OF THE RESPECTIVE MANUFACTURER'S WARRANTY (WHICHEVER IS LONGER).

7. THE AVIC SHALL RESPOND TO ANY REPORTS OF DEFECTIVE SYSTEM PERFORMANCE BY THE OWNER WITHIN FORTY-EIGHT (48) BUSINESS HOURS. THE AVIC SHALL RESPOND BY ASSESSING AND DIAGNOSING THE PROBLEM. THE TIME TO REPAIR OR REPLACE ANY DEFECTIVE ITEM COVERED BY THE WARRANTY SHALL BE NO LONGER THAN IS REQUIRED TO RECEIVE REPLACEMENT PARTS PLUS FORTY-EIGHT (48) HOURS.

8. THE AVIC SHALL PROVIDE A MINIMUM OF FOUR (4) SERVICE VISITS TO THE SITE FOR INSPECTION, CLEANING, AND ADJUSTMENT OF THE EQUIPMENT DURING THE YEAR-LONG WARRANTY PERIOD.

8.1. DUSTING AND CLEANING

8.2. ALL FIRMWARE OR SOFTWARE UPGRADES RECOMMENDED BY MANUFACTURERS

8.3. ENSURING ALL CABLE AND WIRING LABELS ARE PROPERLY ATTACHED

9. THESE SHALL BE SCHEDULED WITH THE OWNER PRIOR TO EACH VISIT SO THAT QUESTIONS OR FOLLOWUP ISSUES CAN BE GATHERED AND PRESENTED, IF AND WHERE NECESSARY. THE AVIC SHALL DELIVER TO THE OWNER ALL DOCUMENTATION OUTLINING THE TERMS AND CONDITIONS OF THE WARRANTY.

10. THE AVIC MAY PRESENT AT TIME OF PROPOSAL ANY ADDITIONAL SERVICE PACKAGES AND SUPPORT OR WARRANTY PLANS IN ADDITION TO THOSE REQUIRED HERE, INCLUDING BUT NOT LIMITED TO:

10.1. AN EXTENDED 2-YEAR PLAN

10.2. AN EXTENDED 3-YEAR PLAN

PROGRAMMING:

1. WHERE KNOWN AND AVAILABLE, USE THE OWNER'S NAMING CONVENTION FOR ROOM NAMES. FOR EXAMPLE, IN THE CONFIGURATION OF EQUIPMENT WILL ALLOW FUTURE AUDIOVISUAL SUPPORT PERSONNEL A FASTER MEANS OF IDENTIFYING ROOMS AND USING THESE APPLICATIONS.

2. THE PROGRAMMER REMAINS SOLELY RESPONSIBLE TO IDENTIFY FULL FEATURE SETS AND POTENTIAL OPTIONS, AND PRESENT THESE TO THE OWNER FOR CONSIDERATION. THIS SECTION IS INTENDED AS A GUIDE TO THE OWNER'S WISHES AND EXPECTATIONS FOR OPERABILITY.

3. THE PROGRAMMER SHALL PROVIDE THE OWNER MOCK UPS OF ALL TOUCH PANEL SCREENS (IN PDF FORM) FOR PREVIEW, REVIEW, COMMENTARY, AND CHANGE REQUESTS, PRIOR TO FINAL COMPILATION AND INSTALLATION. IT IS IMPERATIVE THAT THE OWNER SIGN OFF ON ALL SCREENS, MENUS, SUB-SCREENS, AND PAGES PRIOR TO FINAL INSTALLATION.

PROGRAMMING GOALS:

1. THIS SECTION REVIEWS THE PROGRAMMING AND INTERFACE SUGGESTIONS REQUIRED FOR THIS SCOPE OF WORK. IT IS INTENDED TO PROVIDE THE AVIC A SENSE OF THE PROGRAMMING REQUIRED FOR THE CONTROL SYSTEM. IT IS ESSENTIAL THAT THESE SYSTEMS BE TRANSPARENTLY EASY FOR VISITORS AND NOVICES TO USE. WHILE EVERY EFFORT HAS BEEN MADE TO PROVIDE THIS DETAIL, THE AVIC SHOULD RECOGNIZE A RESPONSIBILITY TO APPLY CREATIVE LAYOUT AND FOLLOW INTERFACE GUIDELINES WHEN PROGRAMMING THE TOUCH PANELS.

2. THE AVIC IS ENCOURAGED TO INCORPORATE THE OWNER'S OFFICIAL LOGO AND COLOR SCHEME INTO THE USER INTERFACE, BUT SHALL FOLLOW THE REQUIREMENTS SET FORTH IN THE FOLLOWING PUBLICATIONS:

2.1. AVIXA/INFOCOMM DASHBOARD FOR CONTROLS DESIGN GUIDE

2.2. AVIXA/INFOCOMM DASHBOARD FOR CONTROLS DESIGN REFERENCE

2.3. AVIXA/INFOCOMM DASHBOARD FOR CONTROL INTEGRATOR'S GUIDE

2.4. AMX USER INTERFACE DESIGN GUIDE

3. THE INTERFACE MAY MAKE USE OF EITHER SOFT BUTTONS, BUTTONS ON THE TOUCH SCREEN, OR A COMBINATION THEREOF.

4. THE USE OF STANDARD ICONS FROM THE CONTROL SYSTEM MANUFACTURER (SUCH AS THOSE AT WWW.CRESTRON.COM/GUI) AS WELL AS THE USE OF WIDELY AVAILABLE FREE TEMPLATES IS ENCOURAGED TO PROVIDE A HIGH-QUALITY LOOK ACROSS ALL PAGES AND PANELS.

5. NOT ALL THEMES ARE APPROPRIATE FOR ALL PANELS DUE TO SIZE AND SHAPE. THE PROGRAMMER SHALL TAILOR ALL PANELS AND PAGES ACCORDINGLY.

6. ALL CONTROL SYSTEMS PROGRAMMING AND INTERFACE DESIGN SHALL BE THE PROPERTY OF THE OWNER. THE OWNER SHALL OWN ALL RIGHTS TO THE CODE, COMPILED AND NON-COMPILED, AT ALL STAGES OF PROGRAMMING UP TO AND INCLUDING THE FINAL VERSIONS. SENTINEL UNDERSTANDS THAT SOME PROGRAMMING MODULES MAY BE THE RESULT OF CUSTOM WORK AND UTILIZE THE PROGRAMMER'S INTELLECTUAL PROPERTY; HOWEVER, THE OWNER SHALL HAVE NO IMPEDIMENTS TO CHANGING, EXPANDING, OR REINTEGRATING THE CONTROL SYSTEM WITH THE AVIC OR OTHER INSTALLATION FIRMS IN THE FUTURE. PASSWORD-PROTECTED CODE IS NOT ACCEPTABLE.

7. THE AVIC SHALL SUBMIT GRAPHIC PRINTOUTS OR DISTRIBUTABLE MOCK-UPS OF THE USER INTERFACE FOR EACH CATEGORY OF CONTROL SYSTEM TO THE OWNER FOR PRIOR REVIEW AND APPROVAL.

8. CCP AND CAIP

8.1. THE AVIC SHALL UTILIZE A "CERTIFIED CRESTRON PROGRAMMER" FOR ALL INTERFACE PROGRAMMING. THE INTEGRATOR SHALL PROVIDE A COPY OF THE

CERTIFICATE BEARING THE NAME OF THE PROGRAMMER.

8.2. IF THE AVIC DOES NOT HAVE A CERTIFIED CRESTRON PROGRAMMER ON STAFF, THAT INTEGRATOR SHALL CONTRACT A CAIP (CRESTRON AUTHORIZED INDEPENDENT PROGRAMMER) AND PROVIDE THE NAME OF THE CAIP AS PART OF THE BID RESPONSE. IF USING A CAIP, THE AVIC SHALL BE BOUND TO COMPLETE THE INTEGRATION WITH THAT SAME CAIP. SHOULD THE CAIP, FOR ANY REASON, NOT BE AVAILABLE OR IS UNABLE TO CONTINUE THE PROJECT TO COMPLETION, THE OWNER AND THE PROJECT TEAM SHALL BE NOTIFIED IN WRITING ABOUT THE REASON FOR THE CHANGE AND TO SUBMIT THE CANDIDATE REPLACEMENT FOR PRIOR APPROVAL.

8.3. CONSIDERATION WILL BE GIVEN TO AN AVIC THAT HAS ON-STAFF PROGRAMMERS OVER THOSE WHO UTILIZE OUTSIDE "FOR-HIRE" PROGRAMMERS. OUTSIDE "FOR-HIRE" PROGRAMMERS CAN ONLY BE CAIPS AND IN GOOD STANDING WITH CRESTRON'S CAIP PROGRAM.

8.4. DOCUMENTATION OF THE AVIC'S CERTIFIED CRESTRON PROGRAMMER'S CONTINUING EDUCATION SHOULD ALSO BE SUBMITTED IF THAT INDIVIDUAL HAS ATTENDED CRESTRON'S ANNUAL TRAINING FOR CERTIFIED CRESTRON PROGRAMMERS.

8.5. THE AVIC SHALL BE RESPONSIBLE FOR ALL COORDINATION AND MANAGEMENT BETWEEN THE CAIP, THE AVIC'S INSTALLATION TEAM, SENTINEL, AND THE OWNER DURING THE DEVELOPMENT AND SUBSEQUENT REVISIONS OF THE CONTROL SYSTEM PROGRAMMING TO ENSURE ALL INTENDED FUNCTIONS ARE ACHIEVED.

9. THE AVIC SHALL SUBMIT GRAPHIC PRINTOUTS OR DISTRIBUTABLE MOCK-UPS OF THE USER INTERFACE FOR EACH CATEGORY OF CONTROL SYSTEM TO THE OWNER FOR PRIOR REVIEW AND APPROVAL.

PANEL PROGRAMMING REQUIREMENTS FOR THE EOC:

1. DAILY INFORMATION

1.1. SHOW THE CURRENT TIME (SHOWN ON ALL SCREENS)

1.2. SHOW THE CURRENT DATE (SHOWN ON ALL SCREENS)

2. ROOM VOLUME (ALL SCREENS):

2.1. UP

2.2. DOWN

2.3. MUTE (THIS SHALL BE AN OVER-SIZED RED BUTTON). ONCE SELECTED, MUTE SHALL REMAIN SELECTED SO THAT VOLUME CAN BE ADJUSTED UP OR DOWN. THIS IS INTENDED TO REACT TO VERY LOUD SOUNDTRACKS OR FEEDBACK, ALLOWING THE USER TO LOWER THE VOLUME WHILE THE SYSTEM IS MUTED. MUTE MUST BE PRESSED AGAIN TO UN-MUTE.

3. "END SESSION," WHICH RETURNS ALL DEVICES TO SLEEP.

4. PRESENTATION

4.1. THIS SCREEN ALLOWS THE ROOM USERS TO ROUTE INPUTS AND OUTPUTS FOR PRESENTATIONS.

4.2. PROVIDE ICONS AND FUNCTIONALITY TO ROUTE INPUTS TO OUTPUTS APPROPRIATE TO THE USE OF THE ROOM. FOR EXAMPLE, FLOOR INPUT EAST TO DISPLAY 1, AND SO ON.

4.3. THE DEFAULT PRESENTATION SHALL BE THE LOCAL AIRTAME OUTPUT BEHIND EACH DISPLAY TO EACH DISPLAY, AS DESCRIBED IN THE EOC SECTION, ABOVE.

4.4. MICROPHONE CONTROL

4.4.1. MUTE ALL MICS

4.4.2. EAST MIC MUTED

4.4.3. WEST MIC MUTED

4.4.4. UNMUTE MICS [RETURNS TO THE PREVIOUSLY SELECTED PRESET STATE]

5. STREAMING

5.1. PROVIDE AN INTERFACE THAT ALLOWS A USER TO SELECT WHICH STREAMING "CHANNEL" APPEARS ON WHICH DISPLAY.

5.2. VOLUME UP/MUTE/DOWN

6. VIDEO CONFERENCING

6.1.1. SELECTION OF THIS OPTION SWITCHES TO THE INPUT OF THE OWNER-FURNISHED COMPUTER, ALLOWING ITS DESKTOP TO APPEAR FOR WEB BROWSING, WEB CONFERENCING, OR OTHER APPLICATIONS.

6.1.2. NO OTHER CONTROLS ARE NECESSARY; A TEXT DESCRIPTION ON THE PANEL MAY DESCRIBE TYPICAL NEXT STEPS FOR THE FIRST-TIME USER.

6.2. AUDIO CONFERENCING

6.2.1. STANDARD TELEPHONE DTMF KEYS: 1-0, *, #

6.2.2. ANSWER CALL

6.2.3. DIAL

6.2.4. HANG UP

6.2.5. MUTE

6.2.6. CONFERENCE

6.2.7. TRANSFER

6.2.8. PRESET NUMBERS MENU

6.2.9. EDIT/STORE PRESETS

6.2.10. MESSAGES/VOICE MAIL

6.3. FLAT PANEL DISPLAY CONTROL

6.3.1. POWER ON/OFF BUTTONS

6.3.2. RESET (RETURN THE DISPLAY TO DEFAULT INPUT, AS WELL AS OTHER AVIC-ENGINEERED SETTINGS)

6.3.3. INPUT SELECT (PROVIDE ONE TOGGLE BUTTON FOR EACH INPUT)

6.3.4. VOLUME UP

6.3.5. VOLUME DOWN

6.3.6. MUTE [AUDIO]

6.3.7. VIDEO MUTE

PANEL/APPLICATION PROGRAMMING REQUIREMENTS FOR BREAKOUT/CONFERENCE ROOMS AND OFFICES:

1. THESE ROOMS SHALL FEATURE A SIMILAR LOOK AND FEEL ON THEIR CONTROL INTERFACES (PANELS IN ROOMS, USER APPLICATIONS IN OFFICES).

2. THE DEFAULT, WHEN THE POWER TO THE DISPLAY IS ON, IS THE OUTPUT OF THE AIRMEDIA BEHIND THE DISPLAY IN QUESTION.

3. DISPLAY POWER ON/OFF

4. VOLUME UP/MUTE/DOWN

5. STREAMING CHANNEL SELECTION

6. INPUT SELECTION (ON EXECUTIVE OFFICES ONLY)

7. PROVIDE FOR AND CREATE A "CRESTRON ONE" VERSION FOR PHONE USE.



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DADE COUNTY EMERGENCY
MANAGEMENT REMODEL
5415 KING JAVES WAY
FITZBURG, WISCONSIN

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ISSUE RECORD		
1	ISSUE FOR BID	08-03-21

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TFT
DRAWN BY
SENTINEL
DATE
01-04-21
PROJECT NUMBER
2020-001



AUDIOVISUAL
REQUIREMENTS
5
AVO.5



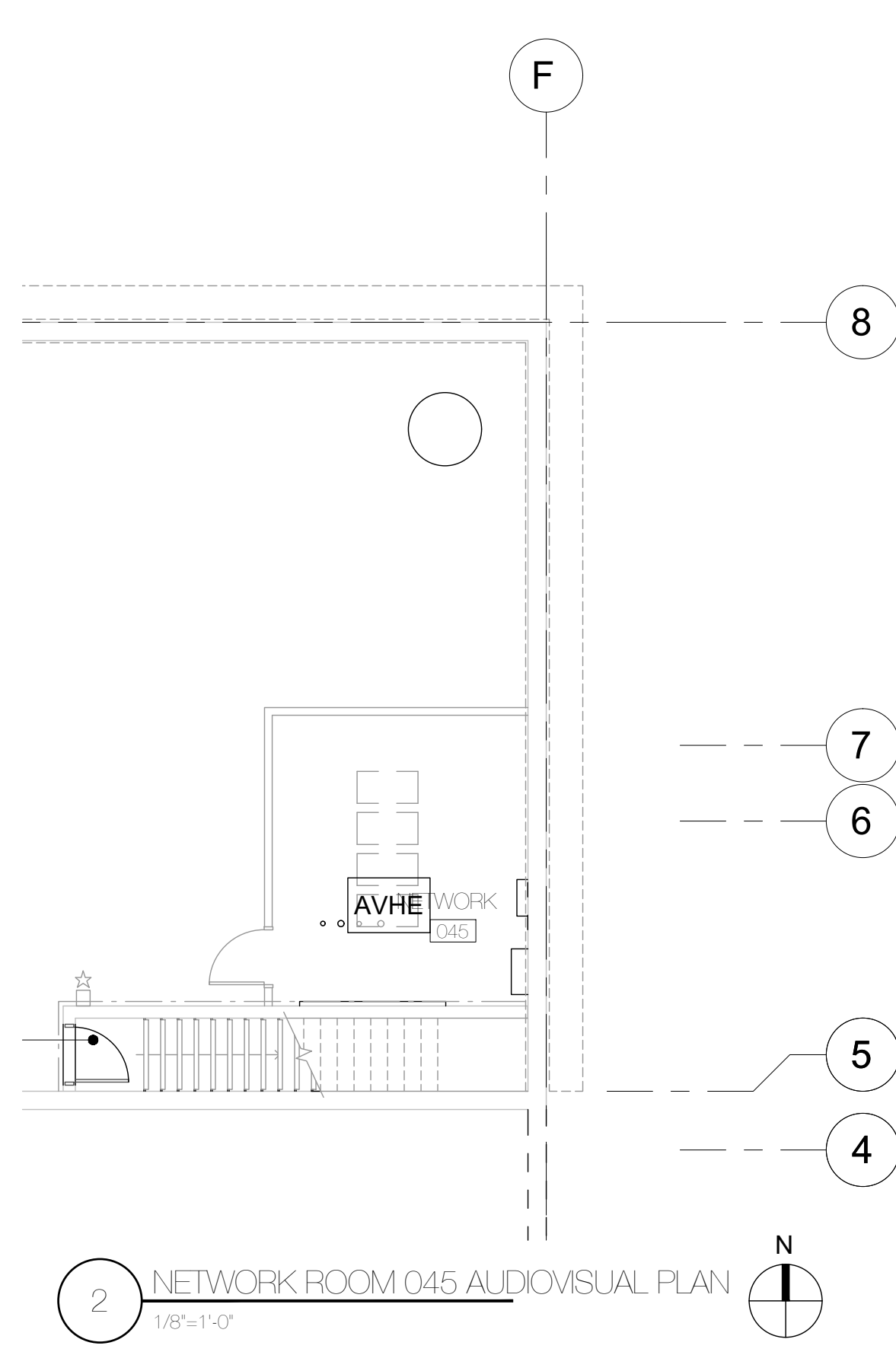
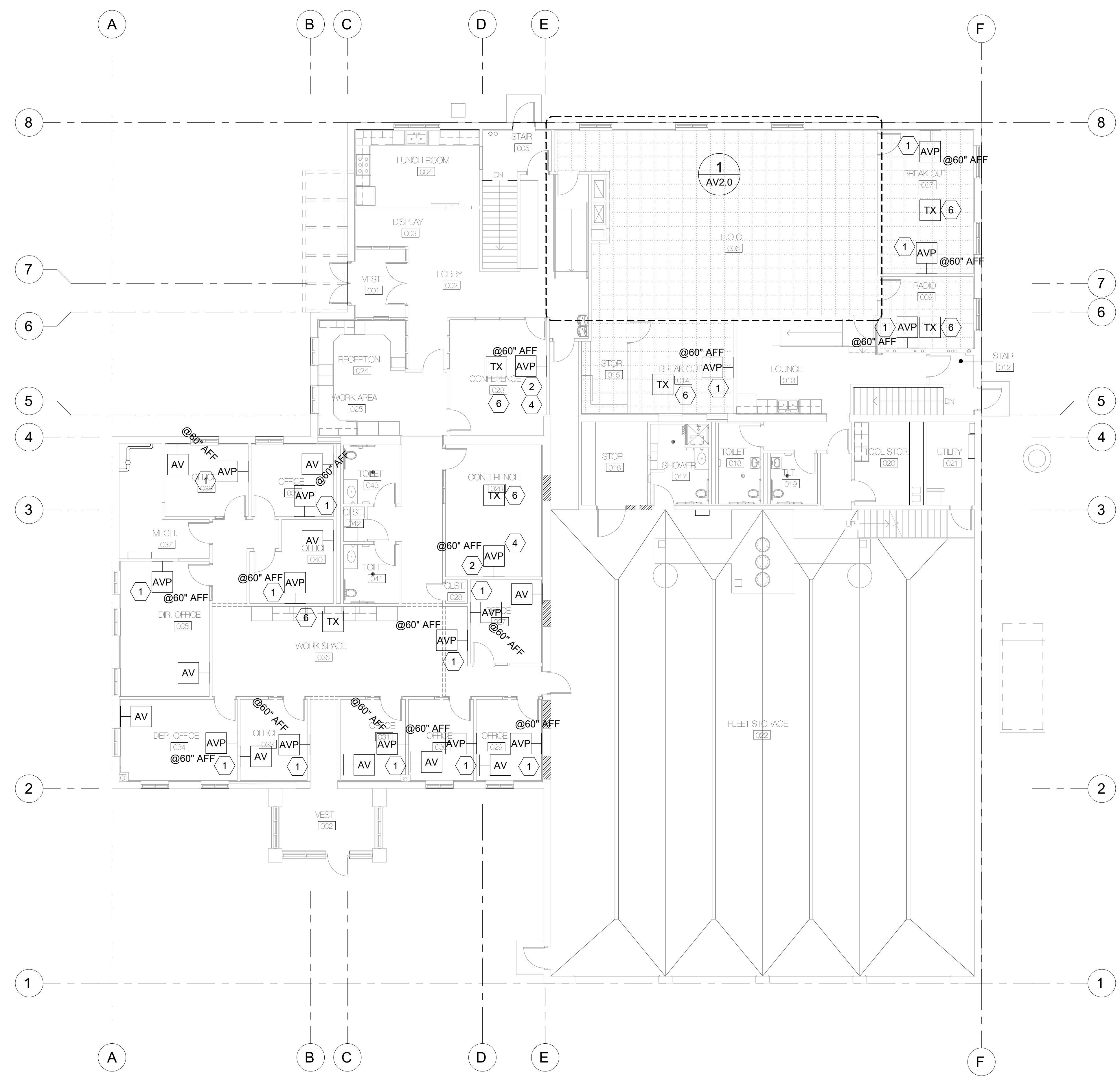
DANE COUNTY EMERGENCY
 MANAGEMENT REMODEL
 541.5 KING JAVES WAY
 FITCHBURG, WISCONSIN

ISSUE RECORD

NO.	ISSUE FOR	DATE
1	ISSUE FOR BD	08-01-21

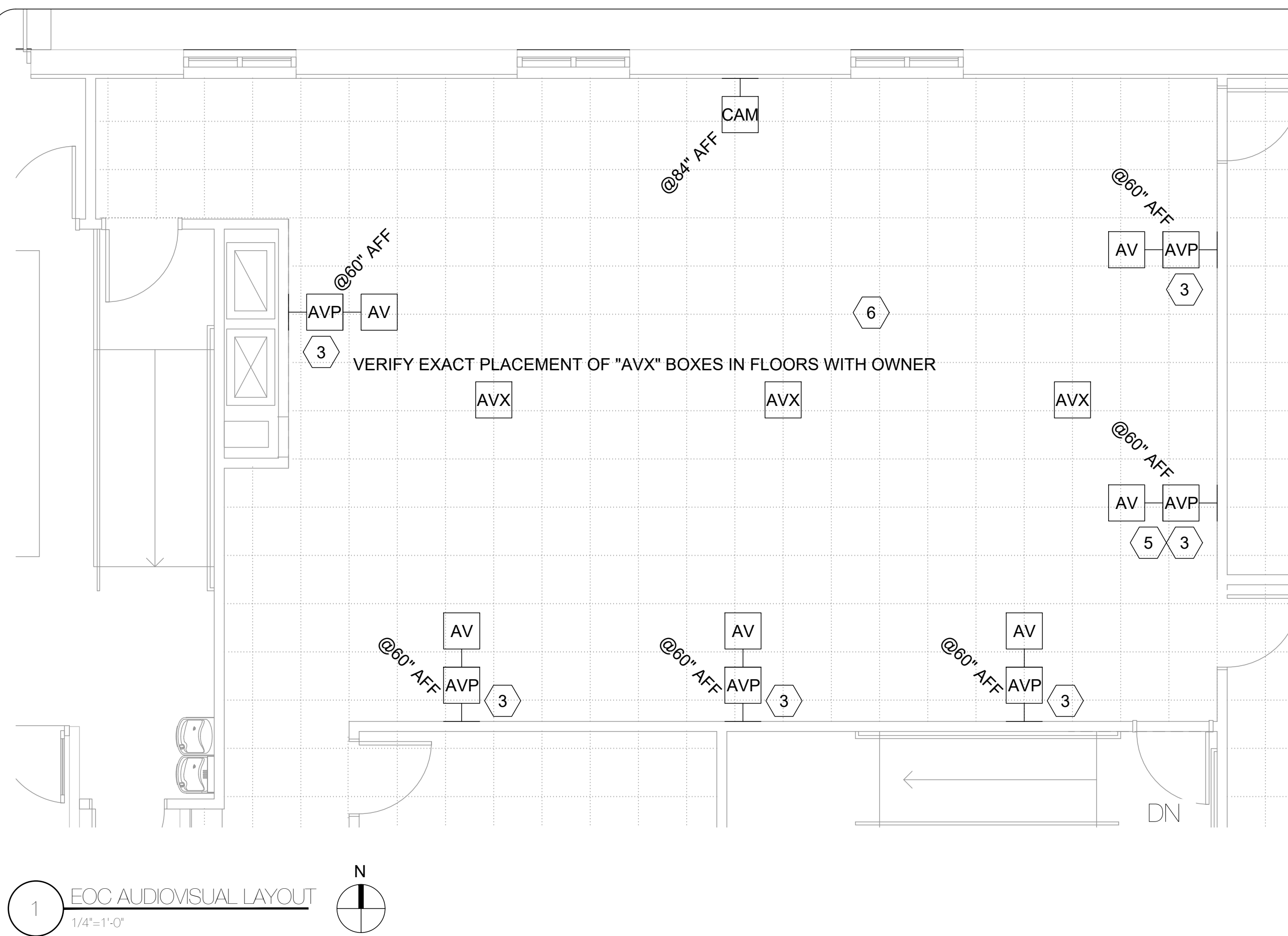
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 SENTINEL
 DATE
 01-04-21
 PROJECT NUMBER
 2020-001

FIRST FLOOR
 AUDIOVISUAL
 PLAN
 AV1.0

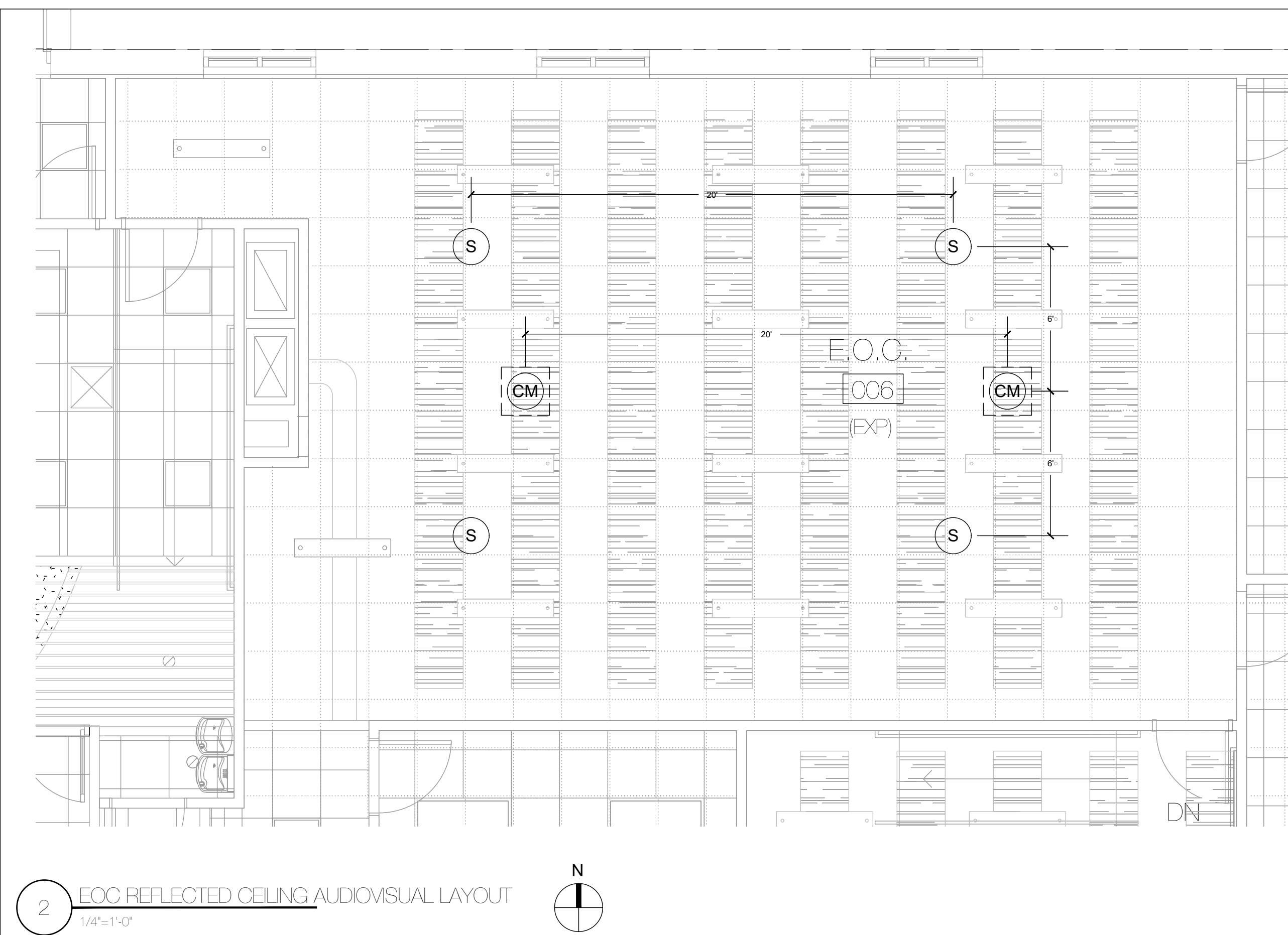


NOTE: SEE DRAWING PL-1 PRIOR TO CORDING THROUGH EXISTING PRE-CAST PLANK FLOORS.

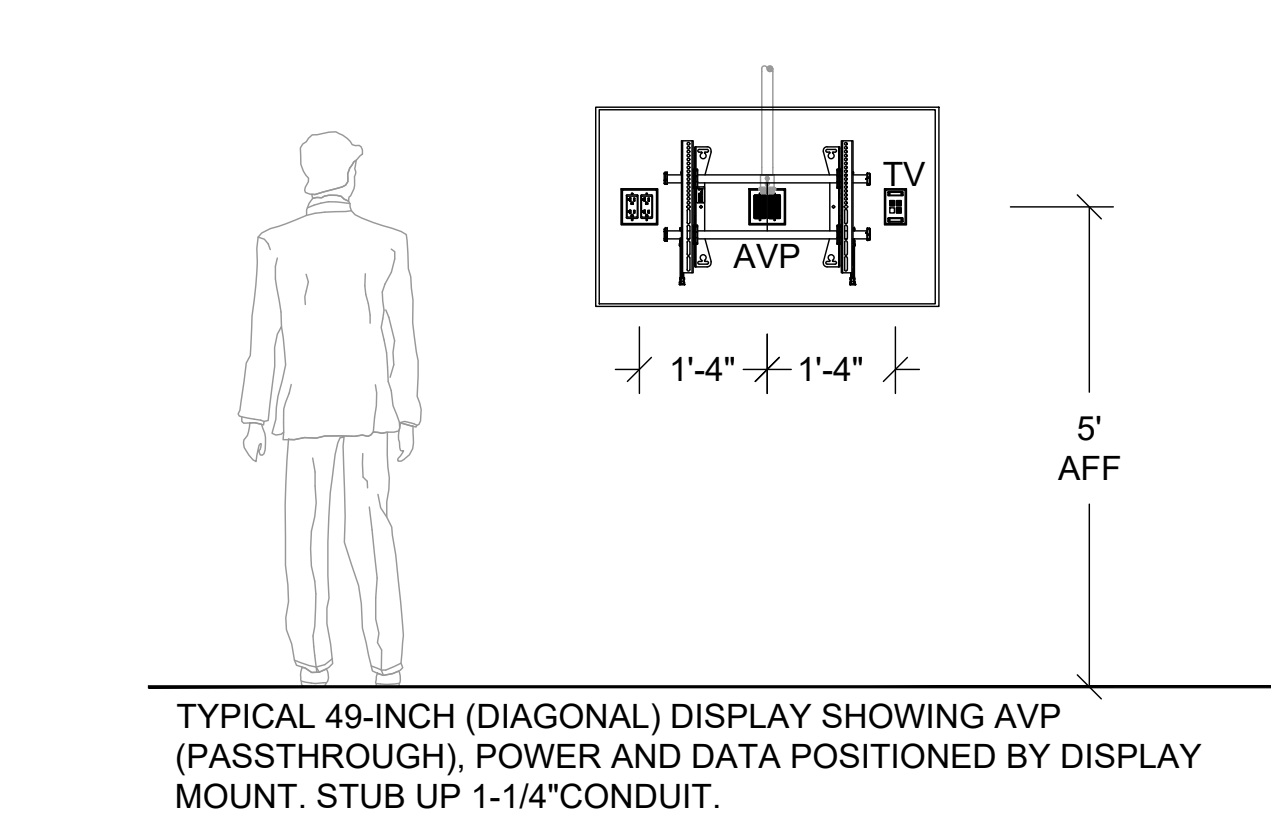
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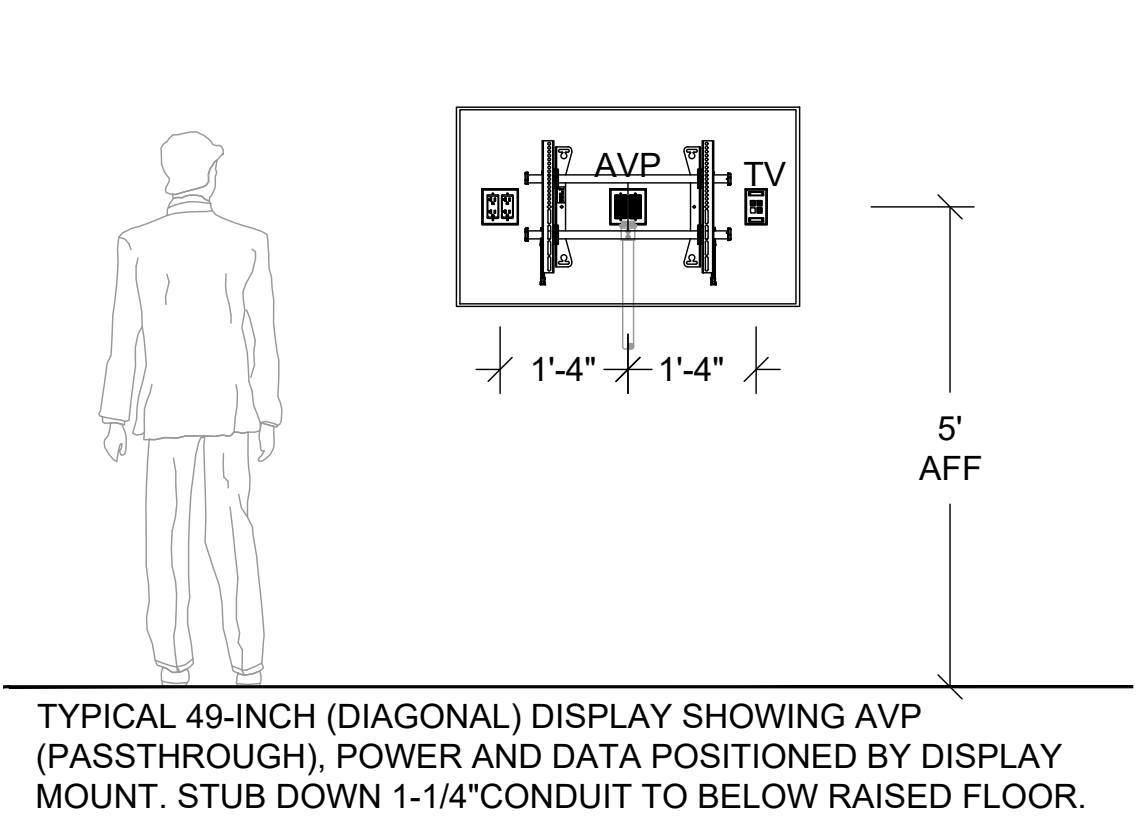
1 EOC AUDIOVISUAL LAYOUT
1/4"=1'-0"



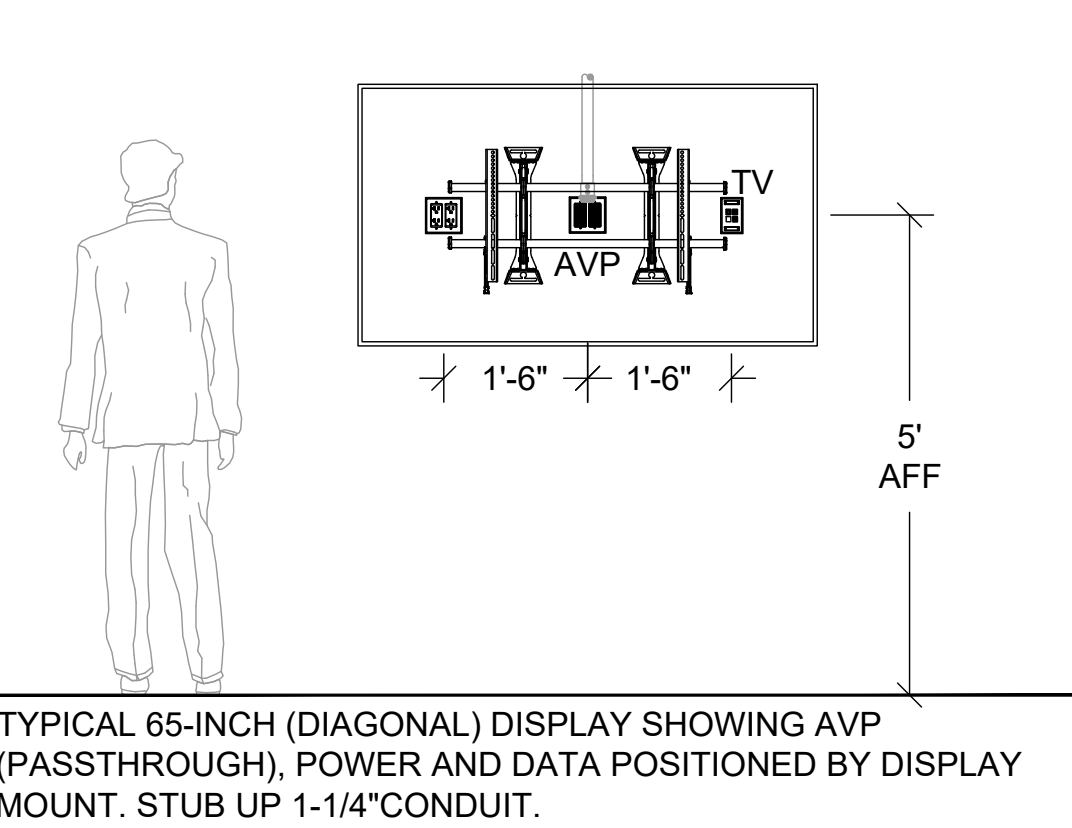
2 EOC REFLECTED CEILING AUDIOVISUAL LAYOUT
1/4"=1'-0"



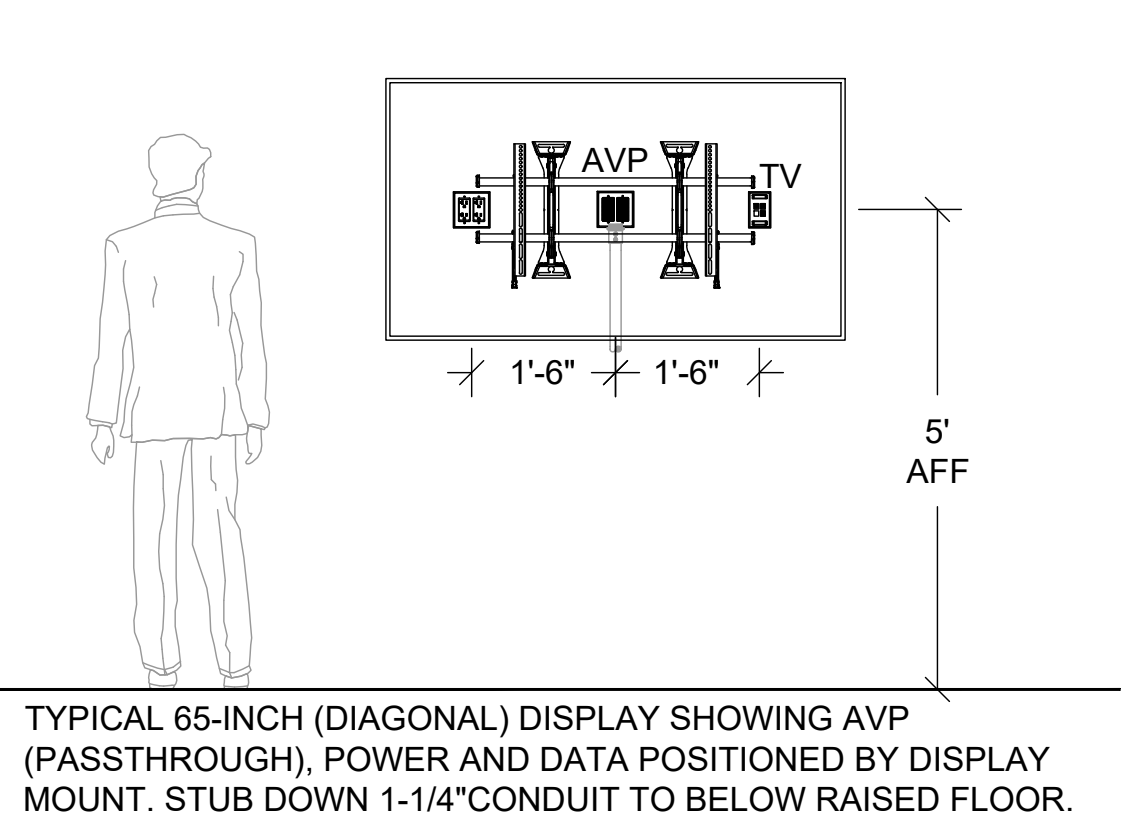
3 49" DISPLAYS ON SLAB FLOORS
1/2"=1'-0"



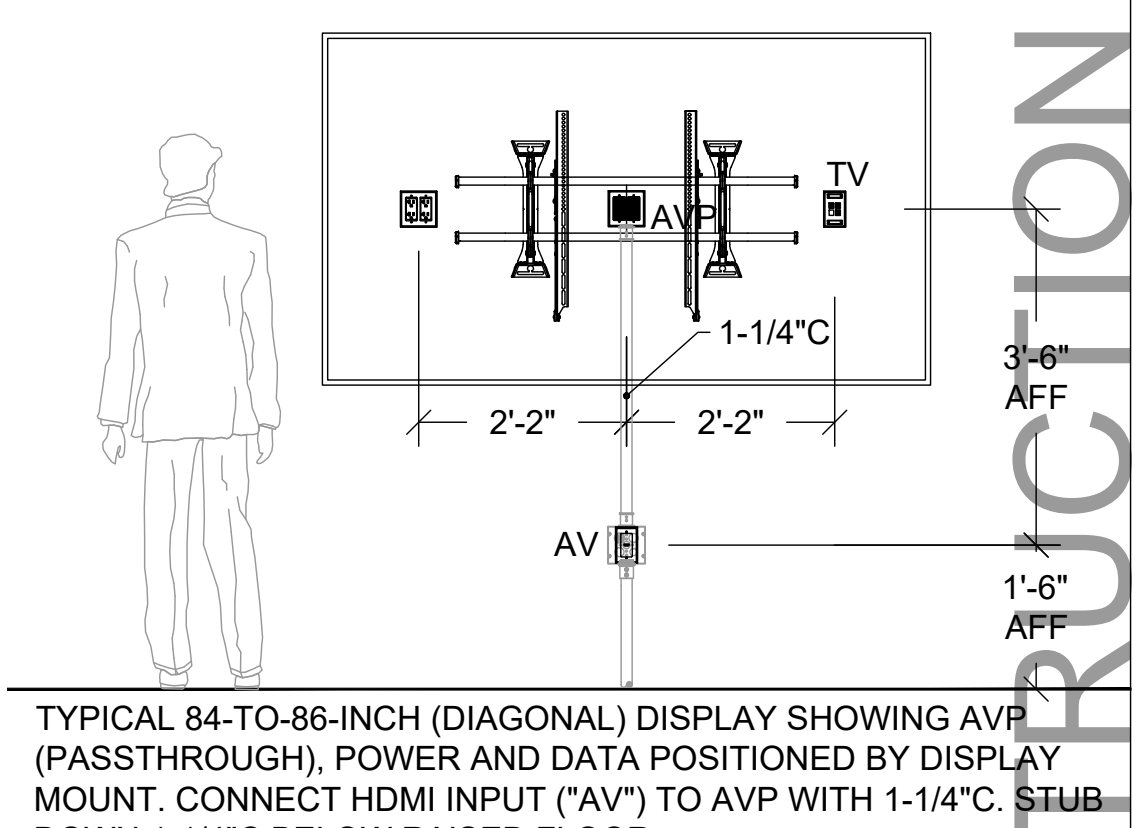
4 49" DISPLAYS ON RAISED FLOORS
1/2"=1'-0"



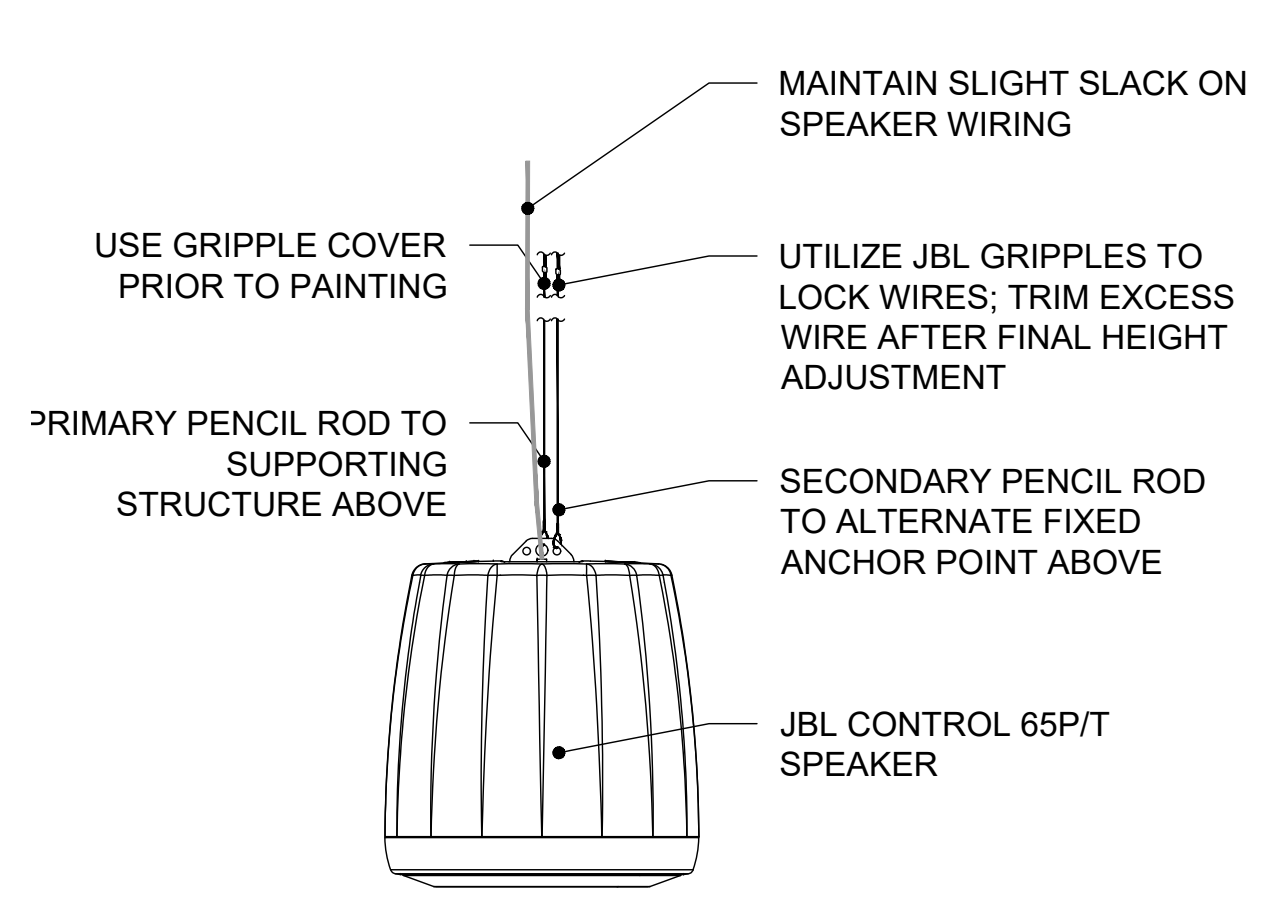
5 65" DISPLAYS ON SLAB FLOORS
1/2"=1'-0"



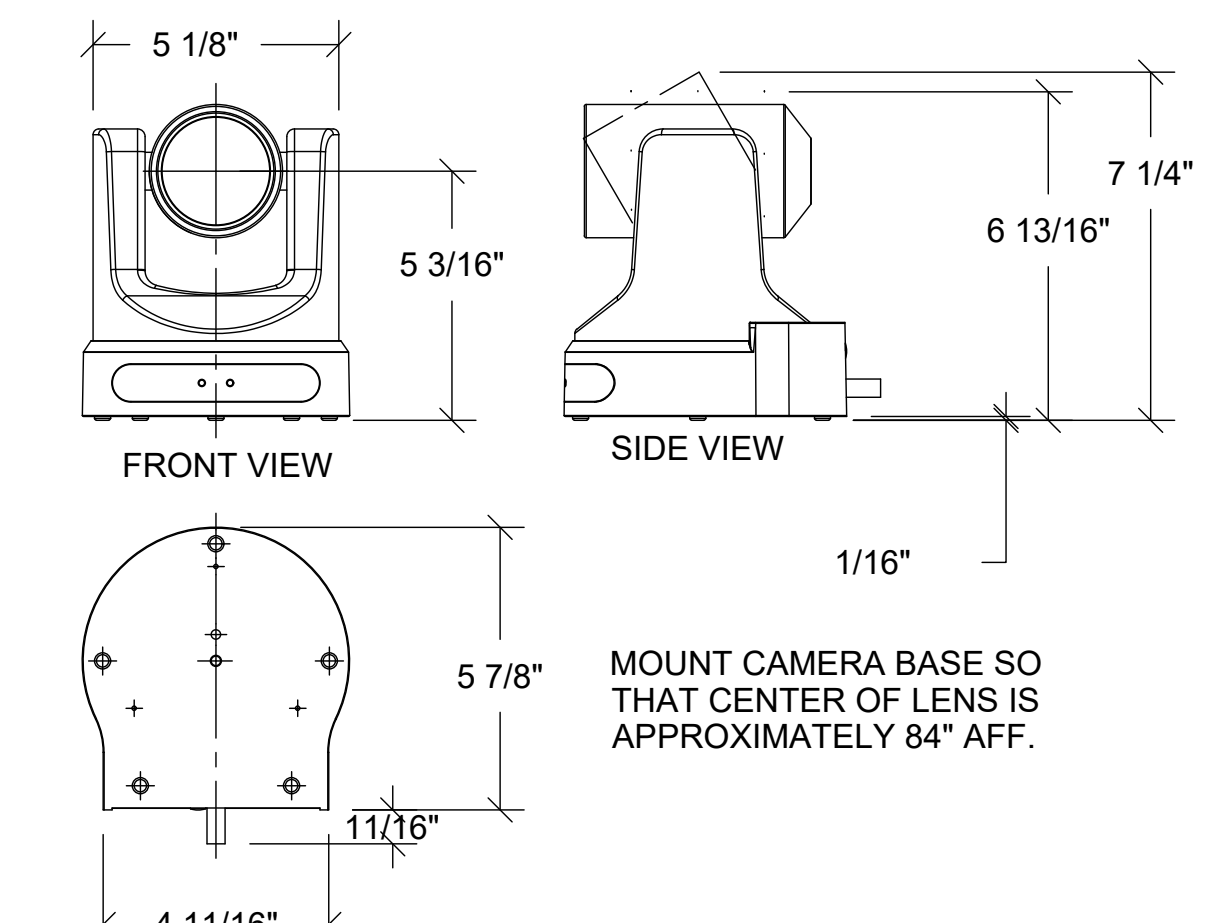
6 65" DISPLAYS ON RAISED FLOORS
1/2"=1'-0"



7 84" DISPLAYS ON RAISED FLOORS
1/2"=1'-0"



8 TYPICAL REQUIREMENTS FOR PENDANT CEILING SPEAKERS



9 QSC Q-SYS CAMERA



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EOC
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LAYOUT
AV2.0

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SOURCE	LOCATION	DESCRIPTION
1	BREAKOUT 007	HDMI INPUT
2	BREAKOUT 014	HDMI INPUT
3	CONF RM 023	HDMI INPUT
4	CONF RM 026	HDMI INPUT
5	EOC 006	HDMI ("AVX") INPUT 1*
6	EOC 006	HDMI ("AVX") INPUT 2*
7	EOC 006	HDMI ("AVX") INPUT 3*
8	EOC 006	AIRMEDIA 1 IN EOC 006
9	EOC 006	AIRMEDIA 2 IN EOC 006
10	EOC 006	AIRMEDIA 3 IN EOC 006
11	EOC 006	AIRMEDIA 4 IN EOC 006
12	EOC 006	AIRMEDIA 5 IN EOC 006
13	EOC 006	AIRMEDIA 6 IN EOC 006
14	HUDDLE 036	AIRMEDIA
15	HUDDLE 036	HDMI INPUT
16	NETWORK 045	VIDEO CONFERENCING PC
17	NETWORK 045	CATV RECEIVER 1**
18	NETWORK 045	CATV RECEIVER 2**
19	NETWORK 045	CATV RECEIVER 3**
20	NETWORK 045	CATV RECEIVER 4**
21	NETWORK 045	CATV RECEIVER 5**
22	OFFICE 034	HDMI INPUT
23	OFFICE 035	HDMI INPUT
24	RADIO 009	HDMI INPUT
25	STORAGE 015	LAPTOP 1
26	STORAGE 015	LAPTOP 2
27	STORAGE 015	LAPTOP 3
28	STORAGE 015	LAPTOP 4
29	STORAGE 015	LAPTOP 5
30	STORAGE 015	LAPTOP 6

RECEIVER	LOCATION	DESCRIPTION
1	DISPLAY	BREAKOUT 007 N
2	DISPLAY	BREAKOUT 007 S
3	DISPLAY	RADIO 009
4	DISPLAY	BREAKOUT 014
5	DISPLAY	CONF 023
6	DISPLAY	CONF 026
7	DISPLAY	HUDDLE 036
8	DISPLAY	OFFICE 027
9	DISPLAY	OFFICE 029
10	DISPLAY	OFFICE 030
11	DISPLAY	OFFICE 031
12	DISPLAY	OFFICE 033
13	DISPLAY	OFFICE 034
14	DISPLAY	OFFICE 035
15	DISPLAY	OFFICE 038
16	DISPLAY	OFFICE 039
17	DISPLAY	OFFICE 040
18	DISPLAY 1	EOC 006
19	DISPLAY 2	EOC 006
20	DISPLAY 3	EOC 006
21	DISPLAY 4	EOC 006
22	DISPLAY 5	EOC 006
23	DISPLAY 6	EOC 006
24	NETWORK 045	QSC QSYS CORE 110F
25	NETWORK 045	VIDEO INGEST/PC

* UTILIZES DM-NVX-E760C CARD IN DMF-CI-8 CHASSIS IN NETWORK 045

** UTILIZES DM-NVX-350C CARD IN DMF-CI-8 CHASSIS IN NETWORK 045



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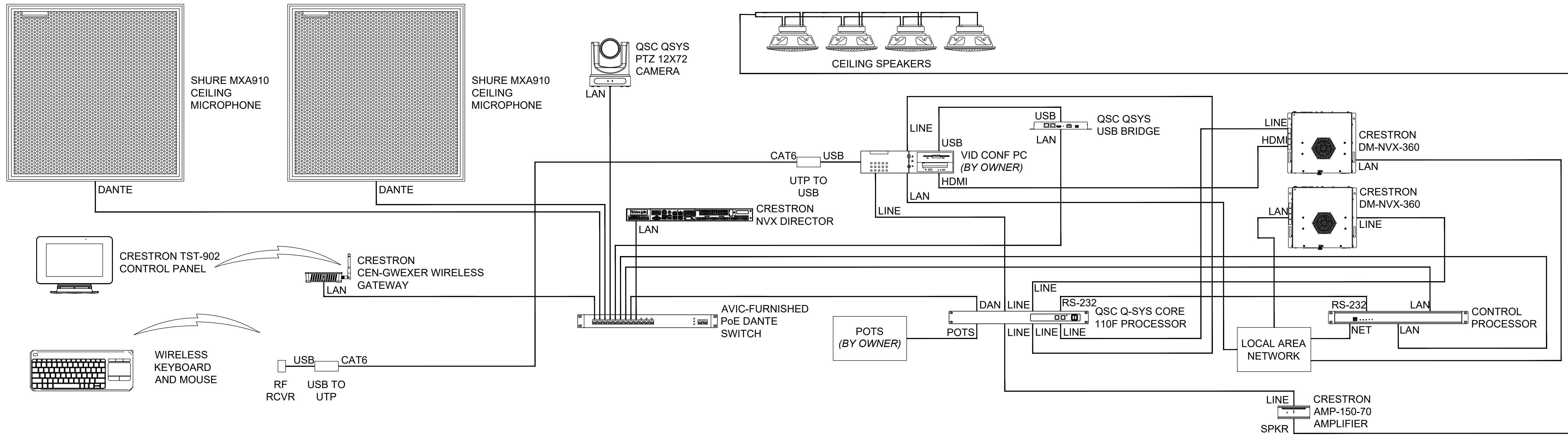
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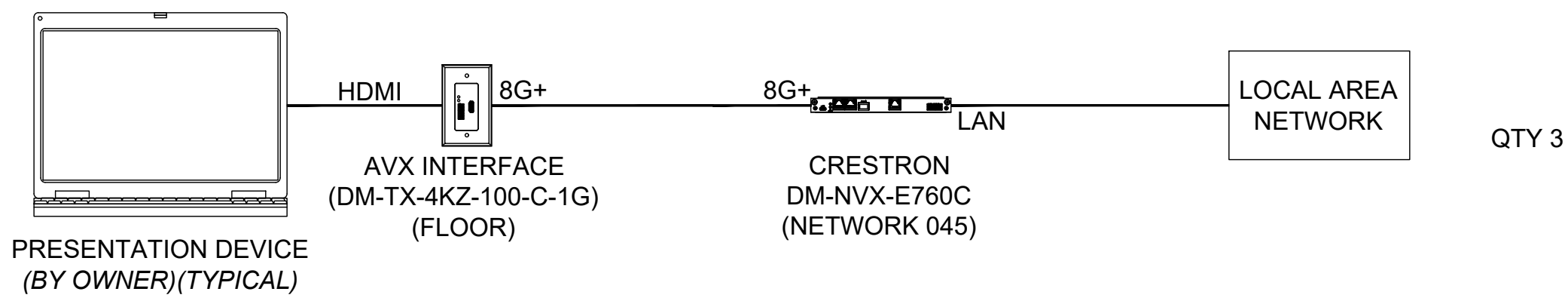
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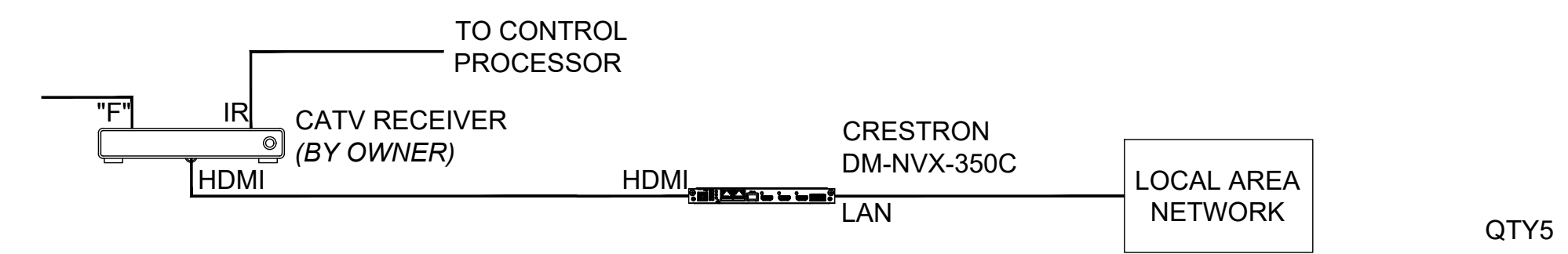
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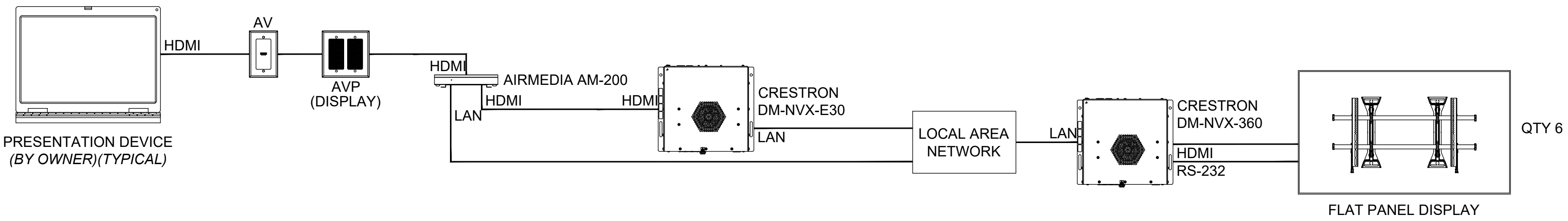
1 AUDIOVISUAL SCHEMATIC CONNECTIONS FOR EOC CONFERENCING



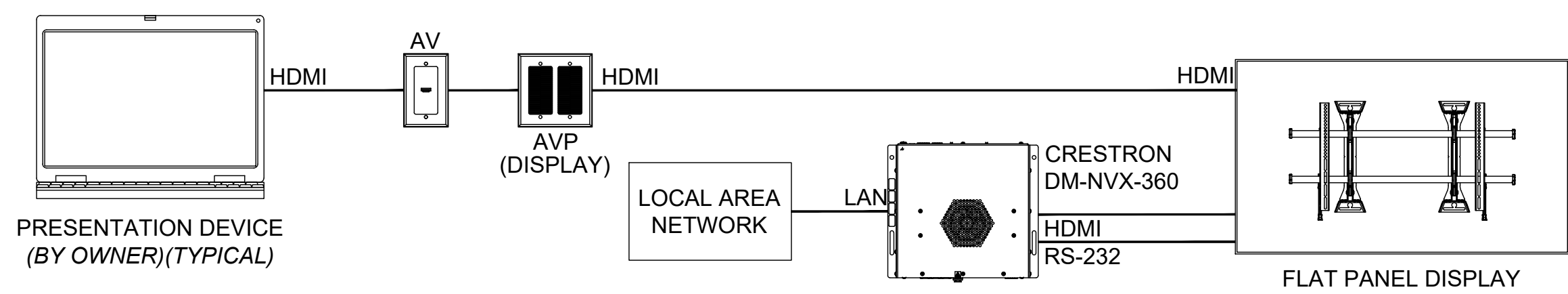
2 AUDIOVISUAL SCHEMATIC CONNECTIONS FOR EOC FLOOR CONNECTIONS



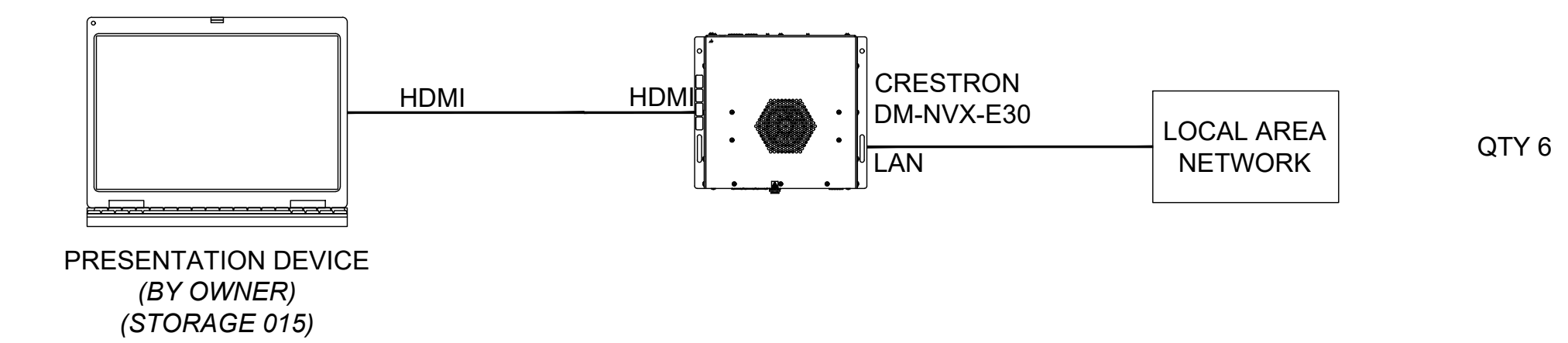
3 AUDIOVISUAL SCHEMATIC CONNECTIONS FOR CABLE TELEVISION IN NETWORK 045



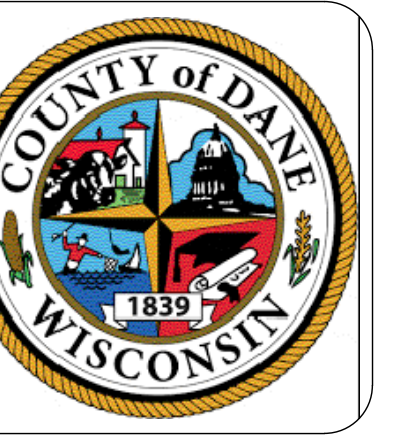
4 AUDIOVISUAL SCHEMATIC CONNECTIONS FOR EOC WALL DISPLAYS



5 AUDIOVISUAL SCHEMATIC CONNECTIONS FOR OFFICES 027, 029, 030, 031, 033, 036, 039, AND 040



6 AUDIOVISUAL SCHEMATIC CONNECTIONS FOR STORAGE 015 CONNECTIONS

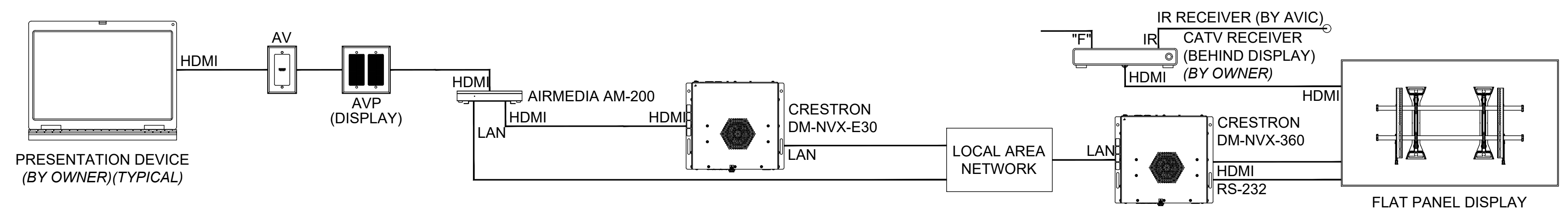


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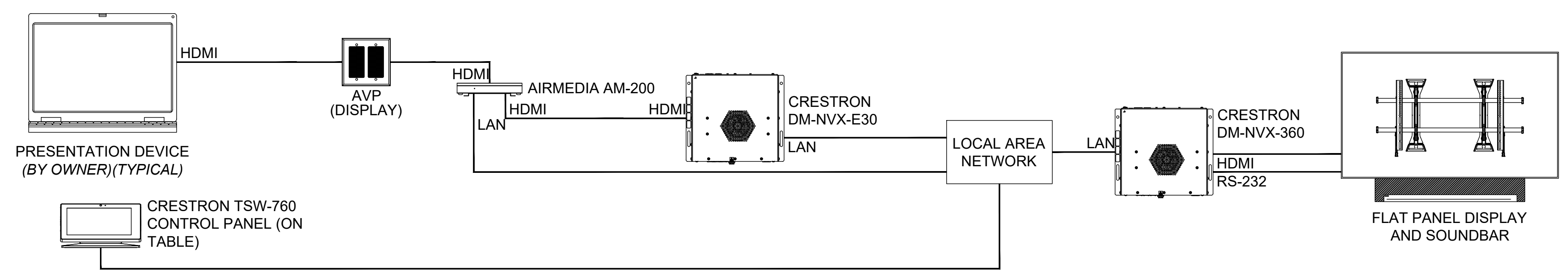
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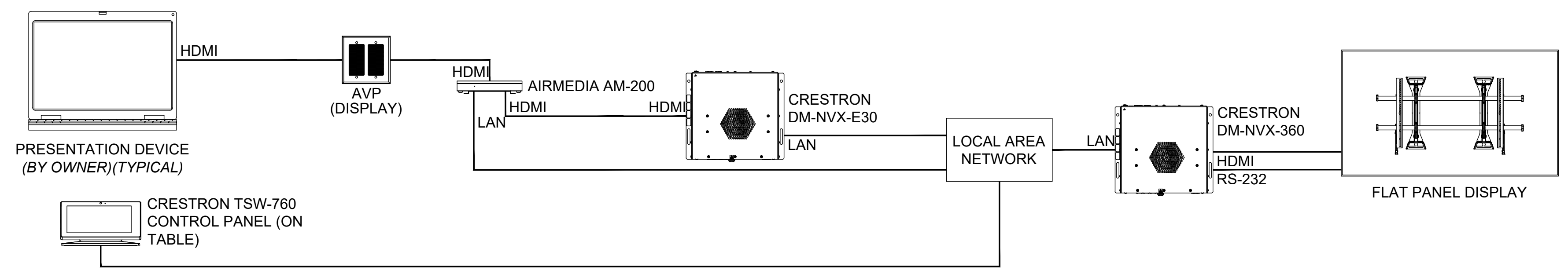
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1 AUDIOVISUAL SCHEMATIC CONNECTIONS FOR OFFICES 034 AND 035



2 AUDIOVISUAL SCHEMATIC CONNECTIONS FOR CONFERENCE ROOMS 023 AND 026



3 AUDIOVISUAL SCHEMATIC CONNECTIONS FOR BREAKOUT ROOMS 007, 014, RADIO ROOM 009, AND WORK SPACE 036

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SCHEMATIC
 AUDIOVISUAL
 CONNECTIONS 2
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 Regis. No. 119867

COMMUNICATIONS & LOW VOLTAGE CONDUIT REQUIREMENTS:

ALL CONDUIT RUNS SHALL BE 3/4" EMT, UNLESS NOTED OTHERWISE.

ALL BOXES SHALL BE A MINIMUM OF 4-11/16" x 4-11/16" x 2-1/8" DEEP BOX WITH A SINGLE GANG TRIM RING MOUNTED FLUSH TO THE WALL SURFACE, UNLESS NOTED OTHERWISE.

ALL MOUNTING HEIGHTS ARE TO THE CENTERLINE OF THE BACKBOX UNLESS NOTED OTHERWISE.

ALL CONDUIT SHALL BE ROUTED ABOVE CEILINGS, BELOW FLOORS, OR STUBBED UP WITHIN WALLS; NO CONDUIT SHALL BE EXPOSED UNLESS APPROVED BY THE ARCHITECT OR OWNER.

ALL CONDUITS IN WALLS SHALL STUB UP AT LEAST 6-INCHES ABOVE THE FINISHED CEILING. ALL STUBS SHALL BE REAMED AND BUSHED AT BOTH ENDS.

ALL CONDUIT PENETRATIONS THROUGH FIRE-RATED PARTITIONS SHALL BE SEALED AS REQUIRED BY CODE. ALL BACKBOXES MOUNTED WITHIN FIRE-RATED PARTITIONS SHALL MEET THE FIRE RATING OF THE PARTITION AS REQUIRED BY CODE.

PROVIDE PULL STRINGS IN ALL CONDUIT RUNS LONGER THAN 10-FEET.

PROVIDE PULL BOXES EVERY 100 LINEAR FEET OR AFTER TWO SUCCESSIVE 90° BENDS.

ALL JUNCTION AND PULL BOXES SHALL BE FURNISHED WITH ACCOMPANYING BLANK COVER PLATE.

ALL BOXES IN EXTERIOR LOCATIONS SHALL BE WEATHERPROOF AND WATERPROOF.

INSTRUCTIONS SHOWN IN DIMENSION LINES, DETAILS, ELEVATIONS, AND PLANS (IN THIS ORDER) TAKE PRECEDENCE OVER INSTRUCTIONS SHOWN IN LEGENDS.

CONDUIT AND CABLE ROUTING SHOWN IS SCHEMATIC AND IS NOT INTENDED TO REPRESENT INSTALLATION PATHS OR DISTANCES. ACTUAL ROUTING AND BOX LOCATIONS SHALL BE FIELD-VERIFIED FOR FEASIBILITY AND COORDINATED WITH OTHER DISCIPLINES BY THE INSTALLATION CONTRACTOR.

HORIZONTAL CONDUITS INTO EACH TECHNOLOGY AREA FROM THE EXTERIOR CEILING PLENUM ARE REQUIRED FOR CABLE ACCESS INTO THE ROOM FROM ALL LOCATIONS THROUGHOUT THE SPACE. THE ENDS OF THE CONDUITS SHALL BE REAMED AND BUSHED, AND EXTEND A MINIMUM OF 2-INCHES INTO THE ROOM.

CABLE O.D. (")	CONDUIT TRADE SIZE AND MAXIMUM QUANTITIES OF CABLES OF THAT O.D.						
	3/4"	1"	1-1/4"	1-1/2"	2"	3"	4"
0.16	10	19	33	46	75	200	333
0.18	8	13	23	32	52	139	231
0.20	6	11	19	25	42	112	187
0.25	4	6	12	16	27	71	120
0.27	3	6	10	14	22	60	102
0.30	2	4	8	10	18	48	82
0.33	1	4	6	8	14	40	68
0.35	1	3	6	8	12	36	60
0.38	1	2	5	7	10	30	50
0.40	1	2	4	6	10	28	46
0.45	1	1	3	5	8	22	38
0.50	1	1	2	4	6	16	30
0.55	1	1	1	3	5	14	24
0.60	N/A	1	1	2	4	12	20
0.67	N/A	1	1	1	3	10	16
0.70	N/A	1	1	1	3	8	14
0.75	N/A	N/A	1	1	2	7	12

NUMBER AND SIZE OF CONDUITS	PULL BOX SIZE (W x L x H IN INCHES)	FOR EACH ADDITIONAL CONDUIT ENTERING THE PULL BOX, INCREASE THE WIDTH
ONE 1-INCH	4 X 16 X 3	2 INCHES
ONE 1-1/4-INCH	6 X 20 X 3	3 INCHES
ONE 1-1/2-INCH	8 X 27 X 4	4 INCHES
ONE 2-INCH	8 X 36 X 4	5 INCHES
ONE 4-INCH	15 X 60 X 8	8 INCHES

CONDUIT DIAMETER	MINIMUM BEND RADIUS
1-INCH	4 INCHES
1-1/4-INCH	8 INCHES
1-1/2-INCH	9 INCHES
2-INCH	12 INCHES
4-INCH	40 INCHES

TELECOMMUNICATIONS GROUNDING NOTES:

- REFER TO E-SERIES DRAWINGS FOR PANEL SCHEDULING INFORMATION AND GROUNDING ELECTRODE SYSTEM DATA.
- A SINGLE GROUND SOURCE SHALL BE PROVIDED FOR GROUNDING ALL RACKS, TRAYS AND METAL FRAMES IN THE MAIN DISTRIBUTION FRAME. A TELECOMMUNICATIONS MAIN GROUNDING BUSBAR (TMGB) SHALL BE PROVIDED AND INSTALLED ON THE MAIN CROSS-CONNECT WALL AT A HEIGHT OF 8-FEET AFF. THE TMGB SHALL CONSIST AT A MINIMUM OF A PREDRILLED COPPER BUSBAR WITH HOLES FOR USE WITH STANDARD-SIZED LUGS, AND HAVE MINIMUM DIMENSIONS OF 1/4-INCH THICK BY 4-INCHES WIDE WITH A MINIMUM OF FORTY-EIGHT (48) CONNECTION POINTS. THE TMGB SHALL BE DIRECTLY BONDED TO THE ELECTRICAL SERVICE GROUND AND TO THE BUILDING STEEL.
- A TELECOMMUNICATIONS GROUNDING BUSBAR (TGB) SHALL BE INSTALLED IN ANY/ALL TELECOM ROOMS. THE TGB SHALL BE MOUNTED ON THE HORIZONTAL CROSS-CONNECT WALL AT A HEIGHT OF 8-FEET AFF. THE TGB SHALL CONSIST OF A PREDRILLED COPPER BUSBAR WITH HOLES FOR USE WITH STANDARD-SIZED LUGS, AND HAVE MINIMUM DIMENSIONS OF 1/4-INCH THICK BY 2-INCHES WIDE WITH A MINIMUM OF TWELVE (12) CONNECTION POINTS.
- A GROUND CABLE FROM THE TMGB TO EACH TGB SHALL BE INSTALLED TO CREATE A FORMAL TELECOMMUNICATIONS BONDING BACKBONE (TBB). THE TBB MAY NOT BE DAISY-CHAINED, BUT CAN BE TAPPED-OFF USING A SHORT BONDING CONDUCTOR. BARE COPPER CABLING IS ACCEPTABLE. THE TBB SHALL BE SIZED BASED ON THE LENGTH OF THE CABLE RUN.
- THE CONTRACTOR SHALL PROVIDE AND INSTALL A MINIMUM #6 AWG GROUND WIRE FROM EACH OPEN RELAY RACK AND CABLE TRAY TO THE MAIN TELECOMMUNICATIONS GROUNDING BUSBAR OR TELECOMMUNICATIONS GROUNDING BUSBAR.
- ANY PENETRATION THROUGH A FIRE-RATED WALL SHALL BE PROPERLY FIRE-STOPPED BY THE CONTRACTOR WITH THE APPROPRIATE FIRE-STOP MATERIAL PER APPLICABLE BUILDING AND ELECTRICAL CODES.
- THE CONTRACTOR SHALL COORDINATE GROUND CABLE INSTALLATION WITH THE ARCHITECTS, MEP ENGINEERS AND THE OTHER TRADES ON THE PROJECT.
- THE CONTRACTOR SHALL ASSUME RESPONSIBILITY FOR ANY DAMAGE TO ANY COMPONENT OF THE TELECOMMUNICATIONS GROUNDING SYSTEM DURING INSTALLATION.
- THE CONTRACTOR SHALL VERIFY THAT THE SIZE OF THE TMGB AND THE TGB ARE ADEQUATE TO SUPPORT THE TELECOMMUNICATIONS GROUNDING REQUIREMENTS FOR THE PROJECT.

ANSI/TIA-607-B CONDUCTOR SIZES	
LENGTH IN FEET	CONDUCTOR SIZE (AWG)
LESS THAN 13	6
14 - 20	4
21 - 26	3
27 - 33	2
34 - 41	1
42 - 52	1/0
53 - 66	2/0
67 - 84	3/0
85 - 105	4/0
106 - 125	250 KCMIL
126 - 150	300 KCMIL
151 - 175	350 KCMIL
176 - 250	500 KCMIL
251 - 300	600 KCMIL
GREATER THAN 301	750 KCMIL

ABBREVIATIONS USED IN THESE DRAWINGS:

AVIC = AUDIOVISUAL CABLING CONTRACTOR
 LVI = LOW VOLTAGE INSTALLER
 EC = ELECTRICAL INSTALLATION CONTRACTOR
 PIC = PAGING INSTALLATION CONTRACTOR
 SIC = SECURITY INSTALLATION CONTRACTOR

NOTE: THE INSTALLATION CONTRACTOR SHALL COORDINATE WITH THE OWNER, ARCHITECT AND GENERAL CONTRACTOR FOR EXACT MOUNTING LOCATIONS PRIOR TO INSTALLATION OF ANY COMPONENTS.

NOTE: ALL RADIO TOWER, RADIO ANTENNA, AND RELATED CABLING BY OWNER.

NOTE: THE GENERAL CONTRACTOR SHALL SCHEDULE A SITE MEETING WITH THE OWNER AND THE RESPECTIVE LOW VOLTAGE AND ELECTRICAL CONTRACTORS TO REVIEW ALL LOCATIONS OF JUNCTION BOXES PRIOR TO INSTALLATION

- ▲ X MOUNTING INFORMATION, WHERE X =
- A ABOVE CEILING
 - D TO THE DESK
 - F FLUSH-MOUNTED
 - H HIDDEN UNDER WORKSURFACE
 - M TO THE MULLION
 - R TO THE RACK ITSELF
 - S PLACED ON THE WORKSURFACE

- ▲ X MOUNTING INFORMATION, WHERE X =
- A ABOVE CEILING
 - D TO THE DESK
 - F FLUSH-MOUNTED
 - H HIDDEN UNDER WORKSURFACE
 - M TO THE MULLION
 - P TO THE PODIUM
 - R TO THE RACK ITSELF
 - S PLACED ON THE WORKSURFACE
 - TX TRANSMITTER
 - RX RECEIVER

SECURITY LEGEND:

- C SIC FURNISHED AND INSTALLED CEILING-MOUNTED CAMERA LOCATION. DASHED LINES INDICATE DESIRED FIELD OF VIEW. REFER TO REQUIREMENTS DRAWINGS FOR REQUIREMENTS.
- C SIC FURNISHED AND INSTALLED WALL-MOUNTED CAMERA LOCATION. DASHED LINES INDICATE DESIRED FIELD OF VIEW. NUMBER(S) INDICATED MOUNTING HEIGHT (AFF). REFER TO REQUIREMENTS DRAWINGS FOR REQUIREMENTS.
- C SIC FURNISHED AND INSTALLED CEILING-MOUNTED PANAMORPHIC CAMERA LOCATION. REFER TO RESPECTIVE DETAIL DRAWING FOR REQUIREMENTS.
- C SIC FURNISHED AND INSTALLED WALL-MOUNTED PANAMORPHIC CAMERA LOCATION. REFER TO REQUIREMENTS DRAWINGS FOR REQUIREMENTS.
- CR SIC FURNISHED AND INSTALLED CARD READER LOCATION. MOUNT AT 42" AFF U.N.O. REFER TO REQUIREMENTS DRAWINGS FOR REQUIREMENTS.
- DGP SIC FURNISHED AND INSTALLED KEYSKAN DATA GATHERING PANEL LOCATION. WALL MOUNT AS REQUIRED. REFER TO REQUIREMENTS DRAWINGS FOR REQUIREMENTS.
- J EC TO FURNISH TWO-GANG DEEP 1900 BOX WITH TWO GANG TRIM RING AT INDICATED HEIGHT AND COVER WITH BLANK FACEPLATE.
- J EC TO FURNISH TWO-GANG DEEP 1900 BOX ABOVE FINISHED CEILING IN ACCESSIBLE LOCATION AND COVER WITH BLANK FACEPLATE. SIC TO FURNISH AND INSTALL ALL WIRING.
- J1 PRIMARY ACCESS CONTROL WIRING JUNCTION BOX. REFER TO ACCESS CONTROL DETAIL DRAWINGS. SIC TO SPECIFY EXACT SIZE AT EACH DOOR. EC TO FURNISH MINIMUM 6" X 6" X 4" BOX ABOVE CEILING IN ACCESSIBLE LOCATION WITH REMOVABLE COVER.
- KP SIC FURNISHED AND INSTALLED KEYPAD/CARD READER LOCATION. MOUNT AT 42" AFF U.N.O. REFER TO REQUIREMENTS DRAWINGS FOR REQUIREMENTS.

REFER TO DOOR HARDWARE SCHEDULE ON DRAWING A6.1 FOR ADDITIONAL INFORMATION.



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LEGEND AND GENERAL NOTES
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GENERAL SCOPE REQUIREMENTS:

- 1. THE SIC SHALL FURNISH AND INSTALL A NEW PHYSICAL SECURITY SYSTEM INCLUDING THE FOLLOWING COMPONENTS AS SPECIFIED IN THESE DRAWINGS.
2. ALL ASSOCIATED MATERIALS AND LABOR REQUIRED FOR A COMPLETE INSTALLATION OF THE PHYSICAL SECURITY SYSTEM SHALL BE PROVIDED BY THE SIC UNLESS OTHERWISE STATED IN THESE DRAWINGS.
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4. THE SIC SHALL NOT BE ALLOWED TO TAKE ADVANTAGE OF ANY ERRORS OR OMISSIONS IN THESE DRAWINGS. WHERE ERRORS OR OMISSIONS APPEAR IN THESE DRAWINGS, THE SIC SHALL PROMPTLY NOTIFY SENTINEL TECHNOLOGIES IN WRITING OF SUCH ERRORS OR OMISSIONS. ANY SIGNIFICANT ERRORS, OMISSIONS, OR INCONSISTENCIES IN THE DRAWINGS SHALL BE REPORTED NO LATER THAN FIVE (5) DAYS BEFORE THE SUBMISSION DEADLINE. THE OWNER, SENTINEL TECHNOLOGIES, AND ANY OTHER REPRESENTATIVES SHALL NOT BE RESPONSIBLE FOR ERRORS THAT GO UNDISCOVERED.

DRAWINGS:

- 1. DRAWINGS ARE DIAGRAMMATIC IN NATURE AND MAY NOT REPRESENT EXACT FIELD CONDITIONS. THE SIC SHALL FIELD-VERIFY CRITICAL INSTALLATION REQUIREMENTS AND PROVIDE NECESSARY ASSOCIATED WORK.
2. THE LOCATIONS OF THE SECURITY EQUIPMENT AND DEVICES SHOWN ARE APPROXIMATE. THE SIC SHALL PRIOR TO INSTALLATION, VERIFY EXACT LOCATIONS BY CROSS-CHECKING SECURITY, ARCHITECTURAL, ELECTRICAL AND COMMUNICATIONS DRAWINGS, FIELD CONDITIONS, AND APPROVED SHOP DRAWINGS.
3. THE SIC SHALL BE PREPARED TO RELOCATE EQUIPMENT OR DEVICES PROVIDED UNDER THIS SCOPE OF WORK WHEN DIRECTED BY THE PROJECT TEAM WITHOUT COST, PROVIDED EQUIPMENT HAS NOT BEEN INSTALLED AND THE NEW LOCATION IS NOT GREATER THAN TWENTY-FIVE FEET (25') FROM THE LOCATION ORIGINALLY SHOWN.
4. INSTALLED DEVICES SHALL BE LOCATED AT THE SAME HEIGHT, AND OF THE SAME ORIENTATION, UNLESS OTHERWISE NOTED.
5. WIRING, SIGNAL AND CONTROL DEVICES, WHERE PROVIDED, SHALL BE FLUSH-MOUNTED IN FINISHED AREAS.

QUALITY ASSURANCE:

- 1. ALL MATERIALS AND LABOR PROVIDED BY THE SIC SHALL BE OF THE HIGHEST QUALITY. THE SIC SHALL BE CERTIFIED TO INSTALL THE SECURITY SOLUTIONS THAT THE SIC HAS PROPOSED AS SPECIFIED IN THESE DRAWINGS.
2. ALL WORK SHALL BE PERFORMED IN A WORKMANLIKE MANNER ACCORDING TO GENERALLY ACCEPTED TRADE PRACTICES.
3. THE SIC SHALL PROTECT ALL STORED OR INSTALLED MATERIALS AS PART OF THESE SYSTEMS BEFORE, DURING, AND AFTER INSTALLATION FROM DAMAGE CAUSED BY OTHER TRADES UNTIL TURNOVER AND FINAL ACCEPTANCE. IF DAMAGE OCCURS DESPITE SUCH PROTECTIONS, REMOVE AND REPLACE ALL DAMAGED COMPONENTS OR THE ENTIRE UNIT(S) AS REQUIRED TO PROVIDE A SOLUTION IN AN ORIGINAL, UNDAMAGED CONDITION.
4. ANY VARIATIONS OR SUBSTITUTIONS TO THE INSTALLATION OF THE SECURITY SYSTEM AS DESCRIBED IN THESE DRAWINGS SHALL BE SUBJECT TO THE CONTROL AND APPROVAL OF THE GC, THE OWNER, AND SENTINEL TECHNOLOGIES AND SHALL ONLY BE CONSIDERED ONCE A REQUEST TO DO SO HAS BEEN SUBMITTED IN WRITING TO THE GC, THE OWNER, AND SENTINEL TECHNOLOGIES FOR PRIOR APPROVAL. THIS SUBMITTAL SHALL DISCUSS THE SCOPE OF THE CHANGE, THE RAMIFICATIONS ON THE OVERALL PHYSICAL SECURITY SYSTEM, AND THE ADVANTAGES TO BE GAINED BY THE OWNER.
5. THE SIC SHALL CONFORM TO THE FOLLOWING STANDARDS WHEN FURNISHING AND INSTALLING THE NEW PHYSICAL SECURITY SYSTEM:
6.1. NFPA 101, LIFE SAFETY CODE (LATEST EDITION)
6.2. NFPA 101A, ALTERNATIVE APPROACHES TO LIFE SAFETY (LATEST EDITION)
6.3. NFPA 101B, CODE FOR MEANS OF EGRESS FOR BUILDINGS AND STRUCTURES (LATEST EDITION)
6.4. NFPA 70 NATIONAL ELECTRICAL CODE (NEC) 2014 - WHERE MORE STRINGENT THAN LOCAL CODES
6.5. ALL APPLICABLE LOCAL, COUNTY, AND STATE BUILDING AND ELECTRICAL CODES WITH LOCAL ADDENDA
6.6. UL 444 COMMUNICATIONS CABLES (LATEST EDITION)
6.7. FCC PART 68 REGULATIONS
6.8. THE AMERICAN WITH DISABILITIES ACT (ADA)
6.9. NFPA 731, STANDARD FOR THE INSTALLATION OF ELECTRONIC PREMISES SECURITY SYSTEMS (LATEST EDITION)

FIRST-NAMED MANUFACTURER:

- 1. WITHIN THESE DRAWINGS, THE FIRST-NAMED APPROVED MANUFACTURER INDICATES THAT ITS RESPECTIVE DEVICE, EQUIPMENT, OR SYSTEM MAY HAVE BEEN USED TO MEET THE JOB REQUIREMENTS AND TO DETERMINE THE SPACE AND DIMENSIONAL REQUIREMENTS. THE SIC'S USE OF ANOTHER PRE-APPROVED SYSTEM MAY REQUIRE THAT THE SIC VERIFY THAT THE RESPECTIVE DEVICES, EQUIPMENT, SYSTEMS, OR PRODUCTS WILL MEET THE JOB REQUIREMENTS AND WILL FIT THE ALLOCATED SPACE.
2. THE LISTING OF A MANUFACTURER AS ACCEPTABLE OR PRE-APPROVED DOES NOT IN ANY WAY RELIEVE THE SIC FROM THE RESPONSIBILITY FOR PROVIDING DEVICES, EQUIPMENT, OR SYSTEMS THAT MEET THE REQUIREMENTS OF THE DRAWINGS. THE SIC SHALL VERIFY THAT PERFORMANCE REQUIREMENTS ARE MET, AS NO TWO MANUFACTURERS SHOULD BE TRUSTED AS EXACTLY IDENTICAL IN FUNCTION, FIT, OR FINISH.

SUBMITTALS:

- 1. UPON PROJECT AWARD, SHOP DRAWINGS AND PRODUCT DATA OF STANDARD CATALOGUED PRODUCTS SHALL BE SUBMITTED WITH APPLICABLE DATA THAT MEET THE JOB REQUIREMENTS. SUBMITTALS THAT INCLUDE INFORMATION ON MULTIPLE DEVICES OR EQUIPMENT ARE ACCEPTABLE ONLY WHEN ITEMS APPLICABLE TO THE JOB ARE IDENTIFIED WITH ARROWS, CHECK MARKS, OR OTHER CALL OUTS. THE SIC SHALL CLEARLY IDENTIFY WHICH MANUFACTURER SOLUTIONS ARE BEING PROPOSED AT THE TIME OF BID RESPONSE.
2. WHEN SHOP DRAWINGS ARE CREATED FROM OR INCORPORATED WITH SENTINEL TECHNOLOGIES' DRAWINGS, THE SIC SHALL REMOVE THE ARCHITECT'S, ENGINEER'S, AND SENTINEL'S TITLE BLOCKS AND REPLACE IT WITH THE SIC'S OWN UNIQUE TITLE

BLOCK. THE SIC'S TITLE BLOCK SHALL INCLUDE AT A MINIMUM THE SIC'S NAME, ADDRESS, TELEPHONE NUMBER, AND THE PROJECT NAME.

- 3. SHOP DRAWINGS OF RELATED EQUIPMENT, DEVICES, AND MATERIAL SHALL BE SUBMITTED AT THE SAME TIME SO THE PROJECT TEAM CAN COORDINATE THE RELATED COMPONENTS.
4. NO MATERIAL OR EQUIPMENT SHALL BE RELEASED FOR MANUFACTURE OR SHIPMENT WITHOUT FIRST OBTAINING THE APPROVAL OF THE PROJECT TEAM. ONLY THE SIC SHALL BE RESPONSIBLE FOR COSTS AND COORDINATION OF RETURNING ITEMS PURCHASED PRIOR TO APPROVAL.

COORDINATION:

- 1. THE SIC SHALL COORDINATE THE ARRANGEMENT, INSTALLATION, AND FINISHING OF THE PHYSICAL SECURITY SYSTEM:
2. WHERE A GIVEN COMPONENT OFFERS MULTIPLE COLOR OPTIONS, ALL SUCH FINISHES SHALL BE COORDINATED WITH THE ARCHITECT PRIOR TO FINAL ORDERING.
3. THE ALIGNMENT AND POSITIONING OF PULL BOXES, JUNCTION BOXES, BACK BOXES, CONDUIT ENDS, STUBS, SLEEVES, ETC., WITH SIC INSTALLED DEVICES.
4. ANY EQUIPMENT CUT INTO, MOUNTED ON, OR SUSPENDED FROM ARCHITECTURAL ELEMENTS SUCH AS WALLS OR CEILING SHALL BE COORDINATED WITH THE ARCHITECT TO ENSURE THEIR IS NO CONFLICT WITH DESIGN INTENT OR FUNCTIONALITY.
5. ANY OTHER ELEMENTS THAT MIGHT OR WILL INTERFERE WITH ELEMENTS INSTALLED BY OTHER TRADES SHALL BE COORDINATED WITH THE GC AND THOSE RESPECTIVE TRADES.
6. THE SIC SHALL TAKE FIELD MEASUREMENTS AS REQUIRED TO FIT THE WORK PROPERLY. RECHECK MEASUREMENTS BEFORE INSTALLING EACH PRODUCT. WHERE PORTIONS OF THE WORK ARE INDICATED TO FIT TO OTHER CONSTRUCTION, VERIFY DIMENSIONS OF OTHER CONSTRUCTION BY FIELD MEASUREMENT BEFORE FABRICATION. COORDINATE FABRICATION SCHEDULE WITH CONSTRUCTION PROGRESS TO AVOID DELAYING THE PROJECT.
7. VERIFY SPACE REQUIREMENTS AND DIMENSIONS OF ITEMS SHOWN DIAGRAMMATICALLY ON THE DRAWINGS.
8. NETWORK-BASED DEVICES REQUIRING IP ADDRESSES SHALL BE COORDINATED WITH THE OWNER.

TESTING, IDENTIFICATION, AND ADMINISTRATION REQUIREMENTS:

- 1. THE SIC SHALL TEST ALL DEVICES FOR CORRECT FUNCTIONALITY AS RECOMMENDED BY THE RESPECTIVE MANUFACTURER.
2. THE SIC SHALL TEST ALL WIRING FOR CONTINUITY, AND WHERE APPLICABLE FOR WIREMAP.
3. THE SIC SHALL THOROUGHLY LABEL THE ENTIRE PHYSICAL SECURITY SYSTEM FOR FUTURE MAINTAINABILITY.
4. ALL WIRES AND CABLES SHALL BE LABELED AT BOTH ENDS.
5. DEVICES SHALL BE LABELED CONSISTENTLY THROUGHOUT.
6. LABELS SHALL MEET THE LEGIBILITY, EXPOSURE DEFAACEMENT, AND ADHESION REQUIREMENTS OF UL969.
7. LABELS SHALL BE PREPRINTED OR PRINTED BY A COMPUTER. LABELS WRITTEN BY HAND ARE NOT ACCEPTABLE.
8. THE SIC SHALL THOROUGHLY DOCUMENT THE ENTIRE PHYSICAL SECURITY SYSTEM FOR FUTURE MAINTAINABILITY AND TROUBLESHOOTING. DOCUMENTATION SHALL INCLUDE BUT NOT BE LIMITED TO:
8.1. AUTOCAD OR PDF SCALE DRAWINGS OF THE PROJECT CLEARLY SHOWING:
8.1.1. PRECISE DEVICE LOCATIONS AND IDENTIFICATION NUMBERS.
8.1.2. APPROXIMATE PATHWAYS OF HORIZONTAL CABLE RUNS TO THEIR NEAREST POINTS OF TERMINATION.
8.1.3. PRECISE LOCATIONS OF INSTALLED PULL BOXES, JUNCTION BOXES, AND ENCLOSURES RELATED TO ANY SECURITY CONDUITS THAT MAY BE INSTALLED.
8.1.4. CONDUIT SIZES FOR ANY CONDUIT ABOVE ONE INCH (1") IN SIZE.
8.1.5. DETAILED ELEVATION VIEWS OF ANY WALL-MOUNTED EQUIPMENT, INCLUDING BUT NOT LIMITED TO CONTROL PANELS, ALARM PANELS, AND HEAD END CABINETS.
8.1.6. SINGLE-LINE DIAGRAMS.
8.1.7. ANY EXTERIOR DEVICES, DIMENSIONED FROM BUILDING CORNERS OR OTHER PERMANENT STRUCTURES (TREES, PLANTS, PARKING LOT CURBING, FENCING, ETC., ARE NOT ACCEPTABLE LANDMARKS).
8.2. PRODUCT CUT SHEETS, SHOP DRAWINGS, ETC.
9. DOCUMENTATION SHALL BE SUBMITTED TO THE OWNER PRIOR TO FINAL PAYMENT.

CUTOVER AND TRAINING REQUIREMENTS:

- 1. THE SIC SHALL BE AVAILABLE OR ON-CALL WITH A 2-HOUR RESPONSE TIME FOR TWO (2) BUSINESS DAYS AFTER THE PHYSICAL SECURITY SYSTEM IS CERTIFIED IN ORDER TO INVESTIGATE AND REPAIR ANY COMPONENTS OF THE SYSTEM THAT DO NOT FUNCTION PROPERLY.
2. THE SIC SHALL PROVIDE A PROGRAMMING, AS WELL AS A BRIEF TRAINING SESSION WITH THE APPROPRIATE OWNER STAFF TO EXPLAIN AND ORIENT THE STAFF IN THE USE AND MAINTENANCE OF THE PHYSICAL SECURITY SYSTEM.
3. AT CLOSEOUT, CLEAN OR RE-CLEAN ENTIRE WORK TO NORMAL LEVEL FOR "FIRST CLASS" MAINTENANCE/CLEANING OF BUILDING PROJECTS OF A SIMILAR NATURE. REMOVE NON-PERMANENT PROTECTION AND LABELS, CLEAN EXPOSED FINISHES, TOUCH-UP MINOR FINISH DAMAGE, REMOVE DEBRIS AND BROOM-CLEAN SPACES, SANITIZE WORK, AND PERFORM SIMILAR CLEANUP OPERATIONS NEEDED TO PRODUCE A CLEAN CONDITION.

SUPPORT AND WARRANTY REQUIREMENTS:

- 1. THE PHYSICAL SECURITY SYSTEM SHALL BE END-TO-END CERTIFIED BY THE SIC.
2. AN EXTENDED MATERIAL, LABOR, AND PERFORMANCE WARRANTY SHALL BE PROVIDED BY THE SIC FOR A PERIOD OF AT LEAST ONE (1) YEAR.
3. THE SIC SHALL PROVIDE ONGOING SUPPORT FOR WARRANTY WORK AS WELL AS MODIFICATIONS AND ENHANCEMENTS THAT MAY BE REQUIRED AS PART OF THE WARRANTY.
4. THE SIC SHALL REPAIR - AT NO ADDITIONAL CHARGE - ANY PART OF THE PHYSICAL SECURITY SYSTEM THAT IS NOT WORKING PROPERLY WITHIN 24 HOURS OF THE REPORT OF THE PROBLEM.
5. THE SIC SHALL DELIVER TO THE OWNER ALL DOCUMENTATION OUTLINING THE TERMS AND CONDITIONS OF THE WARRANTY.

SECURITY SYSTEM CABLING REQUIREMENTS:

- 1. THE SIC SHALL FURNISH AND INSTALL ALL SECURITY-RELATED WIRING AND CABLING FOR ALL COMPONENTS DESCRIBED HEREIN, EXCEPT FOR THOSE CABLING AND WIRING RUNS THAT WILL BE FURNISHED AND INSTALLED BY OTHERS. CABLING AND WIRING FURNISHED AND INSTALLED BY OTHERS WILL BE CLEARLY NOTED IN THESE DRAWINGS.
2. WHERE OTHERS ARE FURNISHING AND INSTALLING THE WIRING OR CABLING, THE SIC

SHALL COORDINATE WITH THOSE RESPECTIVE TRADES TO ENSURE THAT ALL SECURITY REQUIREMENTS ARE MET, THAT THERE ARE ADEQUATE QUANTITIES FOR INSTALLED, AND THAT THE INSTALLED SOLUTION WILL PERFORM AS EXPECTED FOR WARRANTY PURPOSES.

- 3. WHERE THE SIC IS TO FURNISH AND INSTALL CABLING AND WIRING, ALL MANUFACTURERS' RESPECTIVE REQUIREMENTS SHALL BE MET. WHERE MANUFACTURER REQUIREMENTS DIFFER FROM ANY REQUIREMENTS PROVIDED WITHIN THESE DRAWINGS, THE MORE STRINGENT OF THE TWO SHALL BE FOLLOWED.
4. THE SIC SHALL REMOVE ALL PREVIOUSLY INSTALLED AND ABANDONED SECURITY CABLING AND WIRING BEFORE THE INSTALLATION OF NEW CABLING TAKES PLACE. THIS MAY CONSIST OF ABANDONED SECURITY CABLING NOT REMOVED DURING DEMOLITION, AS WELL AS ANY TEMPORARY CABLING INSTALLED BY THE SIC AS PART OF THE INSTALLATION.
5. LOCATIONS AND ROUTES OF PATHWAYS SHOWN ON THE DRAWINGS ARE SCHEMATIC AND NOT NECESSARILY REFLECTIVE OF CONDITIONS AT TIME OF INSTALLATION, OR WERE POSITIONED FOR CLARITY RATHER THAN EXACT SPACING, BENDING, OR DESIRED SEPARATION. THE SIC SHALL REVIEW ANY AND ALL SUCH PATHWAYS SHOWN ON THE DRAWINGS TO ENSURE THAT THE PROPOSED SOLUTION WILL FUNCTION AS INTENDED WITH REGARD TO QUANTITIES, SIZES, LOCATIONS, ETC.
6. THE SIC SHALL REVIEW THE ACTUAL CONDUIT PLANS PROPOSED BY THE MEP OR EC TO ENSURE THAT CONDUITS INTENDED FOR THE PHYSICAL SECURITY CABLING ARE CORRECTLY SIZED, ADEQUATELY POSITIONED, AND HAVE THE REQUISITE NUMBER OF PULL BOXES REQUIRED BY THE ACTUAL MATERIALS PROPOSED BY THE SIC, AND/OR THE SIC DESIRES AS OPTIMAL FOR INSTALLATION. THE SIC SHALL BE RESPONSIBLE FOR ANY AND ALL COSTS ASSOCIATED WITH CONDUIT CHANGES RESULTING FROM FAILURE TO PREVIEW AND APPROVE THE PATHWAYS INSTALLED BY OTHERS.
7. BRIDLE RINGS OR OTHER EQUIVALENT SUPPORTS SHALL BE FURNISHED AND INSTALLED BY THE SIC IN AREAS WHERE DUCTS, CONDUITS, OR CABLE TRAYS ARE NOT AVAILABLE.
8. CABLES SHALL NEVER REST UPON CEILING TILES, LIGHTING FIXTURES, STUD WALLS, OR PIPING. ALL CABLES SHALL BE PROPERLY SUPPORTED TO PREVENT THIS, AND SHALL BE SUPPORTED AT A MINIMUM OF EVERY TEN FEET (10') TO REDUCE SAG.
9. ALL SECURITY CABLES SHALL BE PROPERLY DRESSED, TIED, AND TRIMMED.
10. CABLE RUNS SHALL CONTAIN NO SPLICE OR TRANSITION POINTS FROM THE ENDPOINT TO THE CONTROLLER UNLESS NOTED OTHERWISE.
11. ALL CABLES SHALL BE INSTALLED SUCH THAT THE RESPECTIVE MANUFACTURERS' RECOMMENDED BEND RADIUS FOR EACH CABLE TYPE IS NOT EXCEEDED.
12. CABLE PULLING LUBRICANTS, WHERE USED, SHALL BE APPROVED BY THE CABLE MANUFACTURER SO THAT THE LUBRICATING COMPOUND CANNOT DETERIORATE THE CABLE JACKET.
13. THE SIC SHALL BE RESPONSIBLE FOR VERIFYING THE ACTUAL DISTANCES AND VOLTAGE DROPS FOR EACH CABLE RUN FROM ONE POINT TO ANOTHER.
14. THE WIRING AND CABLING SHALL BE PLENUM-RATED.

ACCESS CONTROL SYSTEM:

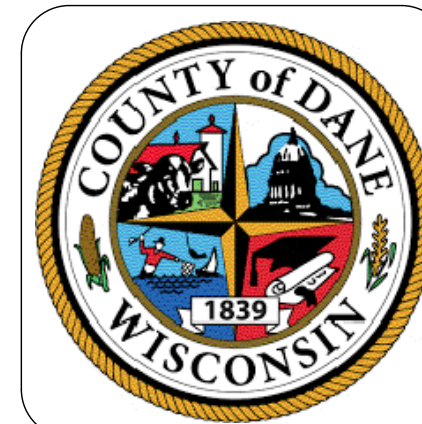
- 1. THE SIC SHALL FURNISH AND INSTALL A PANEL-BASED ACCESS CONTROL SYSTEM, CONSISTING OF KEYSKAN.
2. THE COUNTY HAS AN EMERGENCY OPERATIONS CENTER THAT USES KEYSKAN. THE SIC SHALL PROVIDE THE FACILITY CODE AND BASE BUILDING SYSTEM SECURITY REQUIREMENTS FOR THE NEW ACCESS CONTROL SYSTEM. THE PROPOSED SYSTEM SHALL BE FULLY COMPATIBLE WITH THE COUNTY'S EXISTING KEYSKAN SYSTEM AT ITS OTHER FACILITY, AS THE OWNER REQUIRES THAT STAFF CARRY ONLY ONE, BUILDING-ISSUED CARD OR FOB THAT CAN OPERATE AT EITHER LOCATION.
3. THE SIC SHALL COORDINATE WITH THE FIRE PROTECTION CONTRACTORS FOR THE FIRE ALARM SYSTEM TIE-IN TO ENSURE THAT ALL DOOR LOCKS RELEASE UPON ACTIVATION OF THE FIRE ALARM SYSTEM. ACTIVATION OF THE BUILDING FIRE ALARM SYSTEM SHALL IMMEDIATELY OPEN ALL ACCESS-CONTROLLED DOORS. IF THE SIC DISCOVERS THAT ACCESS-CONTROLLED DOORS ARE NOT RELEASED BY THE BASEBUILDING ALARM SYSTEM, THE SIC SHALL NOTIFY THE GC IMMEDIATELY. THE SIC SHALL COORDINATE THE CONNECTION OF THE FIRE ALARM SYSTEM TO THE SECURITY SYSTEM, AND ITS PROGRAMMING AS DESCRIBED ABOVE, WITH THE GC.
4. THE SIC SHALL COORDINATE WITH THE OWNER TO CONFIRM THE FINAL EQUIPMENT PLACEMENT.
5. THE SIC SHALL MEET AS REQUIRED WITH THE OWNER TO REVIEW ACCESS CONTROL SYSTEM OPTIONS, ZONES, HOLIDAYS, CARD HOLDER NAMES, ADMINISTRATOR NAMES, REPORT FORMATS AND CUSTOMIZATION, ALARM REPORTING REQUIREMENTS AND FORMATS, AND OTHER OPTIONS AND PREFERENCES.
6. ACCESS CONTROL SYSTEM INTEGRATION SHALL REQUIRE COORDINATION MEETINGS RELATED TO THE DOOR HARDWARE:
6.1. THE SIC SHALL REVIEW ALL DOOR HARDWARE SCHEDULES SUPPLIED BY THE ARCHITECT TO CONFIRM ALL HARDWARE REQUIREMENTS, AND IDENTIFY ANY CHANGES TO THE HARDWARE BILL OF MATERIALS REQUIRED DUE TO DIFFERENCES BETWEEN SENTINEL'S PROJECT DRAWINGS AND THE FINAL ARCHITECTURAL HARDWARE SCHEDULE AS IT MAY PERTAIN TO EXIT HARDWARE, STRIKES, LOCKS, AND OTHER DEVICES.
6.2. DELAYED EGRESS DOOR INTEGRATION (IF IN USE).
7. THE SIC SHALL NOT PROVIDE REPORT PRINTERS: THE SYSTEM SHALL INSTEAD UTILIZE NETWORK PRINTING (SUPPLIED BY THE OWNER) FOR REPORT AND LOG PRINTING.
8. THE SIC SHALL BUDGET TIME TO MEET WITH THE OWNER TO DETERMINE AND FINALIZE:
8.1. THE EXACT NUMBER OF CARDS AND/OR FOBs TO SUPPLY
8.2. ZONES, DOOR ACCESS REQUIREMENTS, HOLIDAYS, AND WHICH CARDHOLDERS HAVE ACCESS TO WHICH DOORS AT WHICH DAYS AND TIMES.
8.3. IP ADDRESS NEEDS, SWITCH CONFIGURATIONS, AND WHICH EVENTS SHALL BE TREATED BY THE SIC VERSUS THOSE TREATABLE BY THE IT STAFF.

CONTROL PANEL:

- 1. THE KEYSKAN CONTROLLER (DATA GATHERING PANEL OR READER PANEL) SHALL BE ABLE TO COMMUNICATE WITH READER LOCATIONS (WHICH MAY CONSIST OF ANY READER, KEYPAD, COMBINATION UNIT, OR BIOMETRIC DEVICE), AND SHALL SUPPORT NO LESS THAN TWO (2) READER LOCATIONS PER CONTROLLER. MULTIPLE READER CONTROLLERS ARE PREFERRED FOR REDUCING SPACE REQUIREMENTS.
2. CONTROLLERS SHALL BE MOUNTED TO THE WALL AS SHOWN IN THE SECURITY DRAWINGS. THE SIC SHALL COORDINATE THE PLACEMENT OF THE CONTROLLERS WITH SENTINEL PRIOR TO INSTALLATION.
3. PANELS SHOULD BE SIZED SPECIFICALLY FOR THE SUPPORTED HEAD END SYSTEM: CONTROLLERS MUST BE COMPACT AND SIZE-EFFICIENT TO MINIMIZE WALL-SPACE MOUNTING REQUIREMENTS.
4. CONTROLLERS SHALL UTILIZE RS-485 OR ETHERNET-BASED COMMUNICATIONS. IF THE SIC IS PROPOSING AN IP-BASED CONTROLLER SYSTEM, THE SIC SHALL CLEARLY INDICATE ON ITS BID RESPONSE THE QUANTITY OF POE SWITCH PORTS AND UTP JACKS REQUIRED OF THE OWNER. THE SIC SHALL ALSO PROPOSE, AS AN ALTERNATE, THE COST TO PROVIDE THE NECESSARY POE SWITCH.
5. PANELS SHALL BE ABLE TO PROVIDE 12 VDC, 24VDC, OR BOTH SIMULTANEOUSLY AS

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ISSUE RECORD table with columns for issue number, description, and date.

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SECURITY REQUIREMENTS 1
SS0.1

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NOT FOR CONSTRUCTION

- REQUIRED BY DEVICES.
- SEPARATE PANELS SHALL ALSO PROVIDE POWER TO THE CONTROL PANELS:
 - POWER PANELS SHALL BE APPROXIMATELY THE SAME SIZE AND COLOR AS THE ACCESS CONTROL PANELS WHERE POSSIBLE.
 - POWER PANELS SHALL FEATURE A KEY LOCK TO MAINTAIN THE SAFETY OF THE SYSTEMS.
 - ALL POWER SHALL BE FED BY CONDUIT OR SURFACE-MOUNT RACEWAY AS ALLOWED BY CODE.
 - POWER PANELS SHALL CONNECT TO BUILDING POWER BY HARD-WIRE CONNECTION, NOT BY WALL-WART TRANSFORMERS OR NEMA-STYLE PLUS.
 - ADDITIONAL ACCESS CONTROL PANELS SHALL BE MOUNTED ABOVE THE POWER SUPPLY PANELS. THE SIC SHALL UTILIZE A 1 X 1, 2 X 2, 3 X 2 GRID, ET CETERA, TO KEEP PANELS ORGANIZED ON THE WALL SURFACES. THE SIC SHALL COORDINATE WITH THE ARCHITECT AND SENTINEL TECHNOLOGIES FOR CONTROLLER MOUNTING.
 - ALL ACCESS CONTROL PANELS SHALL BE MOUNTED SO THAT THEY ARE AT A COMFORTABLE WORKING HEIGHT.
 - ALL PANELS SHALL BE MOUNTED PLUMB AND LEVEL.
 - ALL PANELS SHALL BE TESTED AND VERIFIED AS FUNCTIONAL.
 - A DOCUMENT DESCRIBING EACH TYPE OF PANEL, THEIR RESPECTIVE LOCATIONS, NUMBER OF READERS AND OTHER INPUTS OR OUTPUTS INSTALLED, AND WHICH OPTIONS ARE INCLUDED ON EACH PANEL.
 - RECORD DRAWINGS SHALL INCLUDE WIRING INFORMATION SO THAT WIRING, FROM THE HEAD END TO EACH PANEL AND FROM EACH PANEL TO EACH ENDPOINT, CAN BE EASILY IDENTIFIED AND TRACED.
 - FULLY CHECK ALL ELECTRICAL CIRCUITS OF THE VARIOUS DEVICES FOR CORRECT WIRING POLARITY, GROUNDING, AND ADEQUATE SIGNAL STRENGTH.

KEY CARDS AND FOBS:

- THE SIC SHALL FURNISH FIFTY (50) PROXIMITY CARDS AND TWENTY (20) FOBS TO THE OWNER.
- EACH CARD SHALL BE MANUFACTURED BY THE SAME COMPANY AND BE THE SAME TYPE.
- EACH CARD SHALL BE RF-BASED AND BE REPROGRAMMABLE AND FULLY REUSABLE.
- A SLOT PUNCH IS REQUIRED IN THE CARD, LOCATED AT THE CENTER OF THE SHORT END OF THE CARD (VERTICAL PUNCH).
- CARDS SHALL SUPPORT PHOTOGRAPHIC IDENTIFICATION INFORMATION.
- LANYARDS (ONE PER CARD).

PROXIMITY CARD READERS:

- THE SIC SHALL FURNISH AND INSTALL ALL CARD READERS AS SHOWN ON THE ASSOCIATED DRAWINGS.
- ALL READERS SHALL BE HID-COMPLIANT UNLESS NOTED OTHERWISE
- ALL READERS SHALL BE MOUNTED AT 42" AFF UNLESS NOTED OTHERWISE
- ALL CARD READERS OF THIS TYPE SHALL BE POSITIONED EITHER:
 - ON THE MULLION OF THE DOOR ITSELF, USING FLEXIBLE CONDUIT FED THROUGH THE DOOR FRAME ITSELF, OR IF NOT POSSIBLE...
 - SIX EDGES FROM THE EDGE OF THE DOOR FRAME ON THE HANDLE SIDE OF THE DOOR, OR...
 - SIX EDGES FROM THE EDGE OF THE DOOR FRAME ON THE SAME SIDE OF THE ACTIVE LEAF OF DOUBLE DOORS.
- ALL CARD READERS SHALL BE BLACK IN COLOR.
- THE LED SHALL FLASH GREEN WHEN THE USER IS AUTHENTICATED; NO AUDIBLE TONE SHALL CHIME.
- FACEPLATES OF READERS SHALL BE CLEANED.
- ALL WIRING SHALL BE TESTED FOR CONTINUITY AND WIRE MAP.
- THE SIC SHALL ESTIMATE THE DISTANCE BETWEEN THE POWER SUPPLY AND EACH DEVICE TO ENSURE THAT VOLTAGE DROP FALLS WITHIN THE OPERATING PARAMETERS OF THE DEVICE IN QUESTION AS SET BY THE DEVICE MANUFACTURER. A BUDGET OF AN ADDITIONAL 10-15 PERCENT SHALL BE INCLUDED AS A SAFETY MARGIN.

KEYPAD READERS:

- THE SIC SHALL FURNISH AND INSTALL HID PROXPRO 5355 PROXIMITY CARD READERS WITH TWELVE-DIGIT KEYPADS FOR LOCATIONS WITHIN THE SPACE AS SHOWN ON THE ASSOCIATED PROJECT DRAWINGS.
- ALL CARD READERS SHALL BE MOUNTED 42-INCHES A.F.F. UNLESS NOTED OTHERWISE.
- ALL CARD READERS OF THIS TYPE SHALL BE POSITIONED EITHER:
 - SIX EDGES FROM THE EDGE OF THE DOOR FRAME ON THE HANDLE SIDE OF THE DOOR, OR...
 - SIX EDGES FROM THE EDGE OF THE DOOR FRAME ON THE SAME SIDE OF THE ACTIVE LEAF OF DOUBLE DOORS.
 - THE KEYPAD SHALL PROVIDE DUAL AUTHENTICATION, SO THAT USERS MUST HAVE A VALID PROXIMITY CARD OR FOB AS WELL AS ENTER IN A PASSCODE (PASSCODES SHALL BE SUPPLIED BY THE OWNER).
- ALL CARD READERS SHALL BE BLACK IN COLOR.
- THE LED SHALL FLASH GREEN WHEN THE USER IS AUTHENTICATED; NO AUDIBLE TONE SHALL CHIME.
- ALL WIRING SHALL BE TESTED FOR CONTINUITY AND WIRE MAP.
- THE SIC SHALL ESTIMATE THE DISTANCE BETWEEN THE POWER SUPPLY AND EACH DEVICE TO ENSURE THAT VOLTAGE DROP FALLS WITHIN THE OPERATING PARAMETERS OF THE DEVICE IN QUESTION AS SET BY THE DEVICE MANUFACTURER. A BUDGET OF AN ADDITIONAL 10-15 PERCENT SHALL BE INCLUDED AS A SAFETY MARGIN.
- UNDER THE DIRECTION OF THE OWNER, SOME KEYPADS SHALL REQUIRE DUAL AUTHENTICATION (CARD/FOB READ AS WELL AS PIN), AND OTHERS SHALL SUPPORT EITHER (SOME USERS WILL ONLY BE ISSUED A PIN THAT WILL RELEASE THE DOOR). CONFIRM WHICH DOORS REQUIRE WHICH FUNCTIONS PRIOR TO TURNOVER AND ENSURE DOORS ARE SO PROGRAMMED.

DOOR CONTACT POSITION SWITCHES:

- CONTACTS SHALL BE 1-INCH OR LESS IN SIZE, AND BE DESIGNED FOR INSTALLATION IN STEEL DOOR FRAMES.
- CONTACTS SHALL UTILIZE FORM C CONTACTS UP TO 30V DC.
- CONTACTS SHALL FEATURE EITHER AN OPEN OR CLOSED LOOP, AND BE DOUBLE-PULL DOUBLE-THROW.

- VERIFY THAT THE TOTAL LENGTH OF CABLE RUN FROM THE CONTACT TO THE INPUT ON THE CONTROLLER IS WITHIN MANUFACTURER LIMITS FOR VOLTAGE DROP.
- UL-LISTED FIRE-RATED HARDWARE SHALL BE USED FOR ALL FIRE-RATED DOORS.

EXIT HARDWARE INTEGRATION:

- SOME DOORWAYS WILL FEATURE EXIT HARDWARE THAT CAN ACT AS A MANUAL REQUEST TO EXIT, AND THEREBY SHUNT THE ALARM.
- THE SIC SHALL REVIEW THE ARCHITECT'S FINAL DOOR HARDWARE SCHEDULE AND PROVIDE AND INSTALL ALL MATERIALS NECESSARY TO INTEGRATE THE DOOR HARDWARE (BY OTHERS) INTO THE ACCESS CONTROL SYSTEM, LIMITING INVOLVEMENT ONLY TO NEEDED INTEGRATION OF THE TWO SYSTEMS: THE SIC SHALL NOT BE RESPONSIBLE FOR PROVIDING, INSTALLING, CORRECTING, OR ADJUSTING THE DOOR HARDWARE.
- ENSURE THAT ACTIVATION OF THE DOOR'S EXIT HARDWARE SHUNTS THE ALARM CORRECTLY.
- SIMULATE A FORCED OPENING OF THE DOOR TO VERIFY THAT APPROPRIATE ALARMS ARE RECEIVED BY THE ACCESS CONTROL SYSTEM.
- SIMULATE A POWER FAILURE AT EACH DOOR TO ENSURE THE DOOR UNLOCKS AS INTENDED. VERIFY THAT THE ACCESS CONTROL SERVER RECEIVES AND REPORTS THE SUBSEQUENT ALARM.
- SIMULATE A FIRE ALARM CONDITION AT EACH DOOR TO ENSURE THAT THE DOOR UNLOCKS AS INTENDED. VERIFY THAT THE ACCESS CONTROL SERVER RECEIVES AND REPORTS THE SUBSEQUENT ALARM.

ELECTRIC STRIKE INTEGRATION:

- THE SIC SHALL REVIEW THE ARCHITECT'S FINAL DOOR HARDWARE SCHEDULE AND PROVIDE AND INSTALL ALL MATERIALS NECESSARY TO INTEGRATE THE ELECTRIC STRIKES (BY OTHERS) INTO THE ACCESS CONTROL SYSTEM, LIMITING INVOLVEMENT ONLY TO NEEDED INTEGRATION OF THE TWO SYSTEMS: THE SIC SHALL NOT BE RESPONSIBLE FOR PROVIDING, INSTALLING, CORRECTING, OR ADJUSTING THE STRIKES OR FOR PROVIDING BACKUP BATTERY POWER TO THE STRIKES THEMSELVES.
- ENSURE THE STRIKE IS A CONTINUOUS DUTY, 24 VDC STRIKE.
 - IF NOT, NOTIFY THE GC AND SENTINEL BEFORE ATTEMPTING TO WIRE THE STRIKE INTO THE ACCESS CONTROL SYSTEM.
 - IF SO, VERIFY EACH DOOR UNLOCKS WITH THE PRESENTATION OF A VALID CREDENTIAL AND RELOCKS WITHIN THE CORRECT TIME REQUESTED BY THE OWNER.
- SIMULATE A POWER FAILURE AT EACH DOOR TO ENSURE THE DOOR UNLOCKS AS INTENDED. VERIFY THAT THE ACCESS CONTROL SERVER RECEIVES AND REPORTS THE SUBSEQUENT ALARM.
- SIMULATE A FIRE ALARM CONDITION AT EACH DOOR TO ENSURE THAT THE DOOR UNLOCKS AS INTENDED. VERIFY THAT THE ACCESS CONTROL SERVER RECEIVES AND REPORTS THE SUBSEQUENT ALARM.

ELECTRONIC LOCKSET INTEGRATION:

- THE SIC SHALL REVIEW THE ARCHITECT'S FINAL DOOR HARDWARE SCHEDULE AND PROVIDE AND INSTALL ALL MATERIALS NECESSARY TO INTEGRATE THE ELECTRONIC LOCKSETS (BY OTHERS) INTO THE ACCESS CONTROL SYSTEM, LIMITING INVOLVEMENT ONLY TO NEEDED INTEGRATION OF THE TWO SYSTEMS: THE SIC SHALL NOT BE RESPONSIBLE FOR PROVIDING, INSTALLING, CORRECTING, OR ADJUSTING THE LOCKSETS OR HINGES NOR FOR PROVIDING BACKUP BATTERY POWER TO THE LOCKSETS OR HINGES THEMSELVES.
- ENSURE THE LOCKSET IS A CONTINUOUS DUTY, 12 VDC LOCKSET.
 - IF NOT, NOTIFY THE GC AND SENTINEL BEFORE ATTEMPTING TO WIRE THE LOCKSET AND TRANSFER HINGE INTO THE ACCESS CONTROL SYSTEM.
 - IF SO, VERIFY EACH DOOR UNLOCKS WITH THE PRESENTATION OF A VALID CREDENTIAL AND RELOCKS WITHIN THE CORRECT TIME REQUESTED BY THE OWNER.
- SIMULATE A POWER FAILURE AT EACH DOOR TO ENSURE THE DOOR UNLOCKS AS INTENDED. VERIFY THAT THE ACCESS CONTROL SERVER RECEIVES AND REPORTS THE SUBSEQUENT ALARM.
- SIMULATE A FIRE ALARM CONDITION AT EACH DOOR TO ENSURE THAT THE DOOR UNLOCKS AS INTENDED. VERIFY THAT THE ACCESS CONTROL SERVER RECEIVES AND REPORTS THE SUBSEQUENT ALARM.

VIDEO SURVEILLANCE SYSTEM:

- THE SIC SHALL FURNISH AND INSTALL A HEAD END SYSTEM TO HOST THE VMS AND NVR CAPABILITIES OF THE SYSTEM.
- THE HEAD END FOR THIS SYSTEM SHALL BE LOCATED IN NETWORK 045.
- THE SIC IS RESPONSIBLE TO SELECT THE NVR HARDWARE--WHICH MAY BE AN OPEN SYSTEM OR PRE-ASSEMBLED APPLIANCE--AND INSTALL THE VMS SOFTWARE IF REQUIRED BY THE PROPOSED SOLUTION. THE SIC IS THEREFORE REQUIRED TO PERFORM ALL NECESSARY CALCULATIONS TO DETERMINE THE APPROPRIATE NUMBER OF CAMERA CONNECTIONS, PROCESSOR TYPE AND SPEED, RAM, HARD DRIVE STORAGE, SOFTWARE LEVEL, AND OTHER PERIPHERALS NECESSARY TO MEET THE FOLLOWING REQUIREMENTS:
 - NINETY (90) DAYS OF STORAGE (ON SIC-FURNISHED RAID-BASED OR EXTERNAL STORAGE APPLIANCES)
 - THE SIC SHALL FURNISH A RAID-BASED SOLUTION SO THAT THE LOSS OF ANY HARD DRIVE IS COMPENSATED BY A MIRROR DRIVE, OR DATA IS OTHERWISE SAVED REDUNDANTLY ON A NETWORK-ATTACHED STORAGE OR STORAGE-AREA-NETWORK APPLIANCE)
 - A REDUNDANT RECORDING SERVER SHALL PROVIDE MIRRORING OF ALL VIDEO AND AUDIO DATA RECORDED
 - 12-15 IMAGES PER SECOND (AS A BASELINE AVERAGE) PER CAMERA
 - THE ABILITY TO PROVIDE A GRAPHIC MAP OF THE FACILITY SHOWING CAMERA LOCATIONS
 - THE ABILITY TO INTEGRATE WITH VIDEO ANALYTICS (WHETHER BUILT-IN OR THIRD-PARTY)
 - THE NVR SHALL FEATURE REDUNDANT POWER SUPPLIES
- REMOTE VIEWING
 - THE SYSTEM SHALL BE CONFIGURED SO THAT APPROVED USERS MAY VIEW CAMERAS THROUGH A CONVENTIONAL WEB BROWSER.
 - THE SIC SHALL COORDINATE WITH THE OWNER TO ENSURE THAT ALL APPROVED USERS AND CAMERAS ARE IDENTIFIED FOR SUCH SHARING, AS NOT ALL CAMERAS MAY BE APPROVED FOR SHARING TO ALL USERS. THE SYSTEM SHALL SUPPORT

- THE ABILITY TO VIEW CAMERAS VIA REMOTE WEB BROWSING, IOS DEVICES, WINDOWS DEVICES, AND ANDROID DEVICES (TO PRE-APPROVED CLIENTS)

APPROVED MANUFACTURERS INCLUDE THE LATEST VERSIONS OF:

- HANWhA WISENET
 - AVIGILON
 - MILESTONE
 - SALIENT
 - EXACQ
 - GENETEC
- THE HARDWARE SHALL BE EQUIPPED WITH FULL 10/100/1000 ETHERNET FUNCTIONALITY, SO THAT NETWORK OPERATIONS CAN BE PERFORMED USING STANDARD TCP/IP-COMPATIBLE CONTROLS.

CAMERAS:

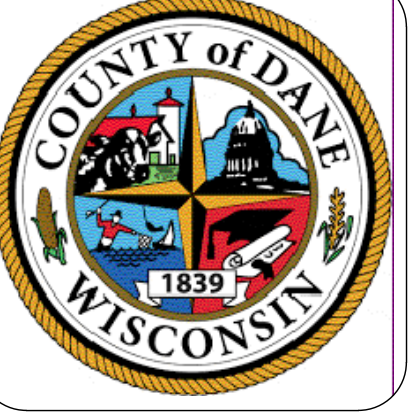
- THE COUNTY USES AXIS CAMERAS.
- CAMERAS SHALL FEATURE THE FOLLOWING:
 - POWER-OVER-ETHERNET, USED FOR POWER AND DATA
 - MOTORIZED VARIFOCAL LENSES
 - WIDE DYNAMIC RANGE (WDR) UNLESS ASSOCIATED PROJECT DRAWINGS CALL FOR SOME LOCATIONS WITH SUPER WIDE DYNAMIC RANGE ON A CAMERA-BY-CAMERA BASIS; REFER TO PROJECT DRAWINGS FOR ANTICIPATED AREAS OF COVERAGE.
 - MINIMUM RESOLUTION OF 1920 X 1080 AT THE MAXIMUM FRAME RATE (GREATER THAN OR EQUAL TO 15 FPS); MOST CAMERA FRAME RATES ARE EXPECTED TO BE 4-5 FPS UNLESS NOTE OTHERWISE ON A CAMERA-BY-CAMERA BASIS
 - RECORD ON MOTION DETECTION. THE SIC SHALL ENSURE THE MOTION ACTIVATION FEATURES ARE OPERATING. FOR EACH FIXED VIEW CAMERA, THE SIC SHALL MASK ANY AREAS OF PREDICTABLE FREQUENT MOVEMENT, SO THAT MOTION ACTIVATION IS NOT NEEDLESSLY UTILIZED. EXTERIOR CAMERAS THAT LOOK INTO NON-THE OWNER FACILITY WINDOWS OR RESIDENTIAL AREAS SHALL ALSO BE MASKED TO PREVENT INVASIONS OF PRIVACY.
 - ONVIF COMPLIANCE
 - OPERATING TEMPERATURE RANGE MEETING OR EXCEEDING A WINDOW OF 15° FAHRENHEIT TO 130° FAHRENHEIT WITHOUT ADDITIONAL HEATER OR BLOWER
- INSTALL ALL COMPONENTS ACCORDING TO THEIR MANUFACTURERS' RESPECTIVE REQUIREMENTS.
- THE SIC SHALL ENSURE THAT THE CAMERA IMAGE IS STABLE, CLEAR, AND WORKS IN ALL ANTICIPATED LIGHTING CONDITIONS. THE SIC SHALL ENSURE THAT ALL CAMERA IMAGES ARE EQUALLY VISIBLE FROM THE NVR AND ANY VIEWING MONITORS. THE SIC SHALL INSTALL ALL REQUIRED SOFTWARE UPDATES, PATCHES, FIXES, AND DRIVERS TO ENSURE THE ENTIRE SOLUTION IS UP-TO-DATE TO MANUFACTURER RECOMMENDATIONS.
- DOVE CAMERAS
 - DOVE CAMERAS MAY BE CEILING-MOUNTED (ON EITHER GYPSUM WALLBOARD OR ACOUSTICAL CEILING TILES), OR SIDE-MOUNTED TO BACK BOXES ON WALL SURFACES. THE SIC SHALL MOUNT EACH CEILING CAMERA FLUSH AND LEVEL WITHIN THE CEILING SURFACE. COORDINATE LOCATIONS WITH THE ARCHITECT TO VERIFY CEILING TYPE IN EACH LOCATION.
 - EACH CAMERA HOUSING SHALL BE TIGHT TO THE CEILING.
- MULTI-LENS CAMERAS
 - MULTI-LENS CAMERAS SHALL FEATURE 90°, 180°, 270°, AND 360° VIEWS AS SHOWN ON THE SECURITY DRAWINGS.
 - POSITION LENSES AS REQUIRED TO ACHIEVE THE AREAS OF COVERAGE INDICATED. IT IS PERMISSIBLE TO HAVE DIFFERENT FOCUS POINTS BASED ON THE AREA A SPECIFIC CAMERA SERVES (FOR EXAMPLE, ONE LENS MAY FOCUS ON A DOOR WHILE OTHERS COVER A MORE GENERAL VIEW).
- OUTDOOR CAMERAS SHALL HAVE:
 - AN OPERATING TEMPERATURE RANGE MEETING OR EXCEEDING A WINDOW OF -50° FAHRENHEIT TO 130° FAHRENHEIT WITH INTEGRATED 24V HEATER AND BLOWER
 - UTP-BASED POWER AND SIGNALING; IF OPTICAL FIBER IS USED DUE TO DISTANCE, THE SIC SHALL FURNISH AND INSTALL ALL NECESSARY MEDIA CONVERTERS AND MEANS TO POWER THE CONVERTERS AS PART OF THEIR SOLUTION.
 - THE SIC IS SOLELY RESPONSIBLE TO COORDINATE WITH THE EC FOR LIGHTNING PROTECTION BASED ON THE EC'S REQUIREMENTS.
 - THE SIC SHALL FURNISH AND INSTALL 24 VAC POWER SUPPLY PANELS FOR ALL EXTERIOR CAMERAS. SELF-RESETTING CIRCUIT BREAKERS ARE REQUIRED ON THE PANEL. INPUT VOLTAGE SHALL BE 120 VAC. POWER SUPPLIES SHALL SUPPORT 24 HOURS UNINTERRUPTED OPERATION IN THE EVENT OF POWER LOSS.
- WALL-MOUNTS
 - ALL WALL MOUNTS SHALL FEATURE PAINTABLE METAL
 - MOUNTS SHALL BE SECURELY MOUNTED TO THE WALL SURFACE AS WELL AS THE CAMERA HOUSING
 - MOUNTS SHALL ALLOW FOR THE CAMERA HOUSING TO BE POSITIONED TO THE CORRECT VANTAGE POINT AND THEN LOCKED INTO A FINAL POSITION
- CEILING OR SOFFIT-MOUNTS
 - ALL CEILING OR SOFFIT MOUNTS SHALL BE FULLY RECESSED IN A RATED ENCLOSURE; IF FIELD CONDITIONS PREVENT FULL RECESSION, THE SIC SHALL UTILIZE A PENDANT-MOUNT
 - MOUNTING METHODS SHALL BE SECURE TO PREVENT INJURY OR DAMAGE
 - SMOKED DOMES SHALL BE USED TO CONCEAL THE CAMERA'S ORIENTATION
- PENDANT-MOUNTS
 - ALL PENDANT MOUNTS SHALL FEATURE PAINTABLE METAL
 - MOUNTS SHALL BE SECURELY MOUNTED TO THE CEILING SURFACE AS WELL AS THE CAMERA HOUSING
 - MOUNTS SHALL ALLOW FOR THE CAMERA HOUSING TO BE POSITIONED TO THE CORRECT VANTAGE POINT AND THEN LOCKED INTO A FINAL POSITION
- CORNER OR PARAPET-MOUNTS
 - ALL CORNER AND/OR PARAPET MOUNTS SHALL FEATURE PAINTABLE METAL
 - MOUNTS SHALL BE SECURELY MOUNTED TO THE WALL OR ROOF SURFACE AS WELL AS THE CAMERA HOUSING
 - MOUNTS SHALL ALLOW FOR THE CAMERA HOUSING TO BE POSITIONED TO THE CORRECT VANTAGE POINT AND THEN LOCKED INTO A FINAL POSITION

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SECURITY REQUIREMENTS
2

SS0.2

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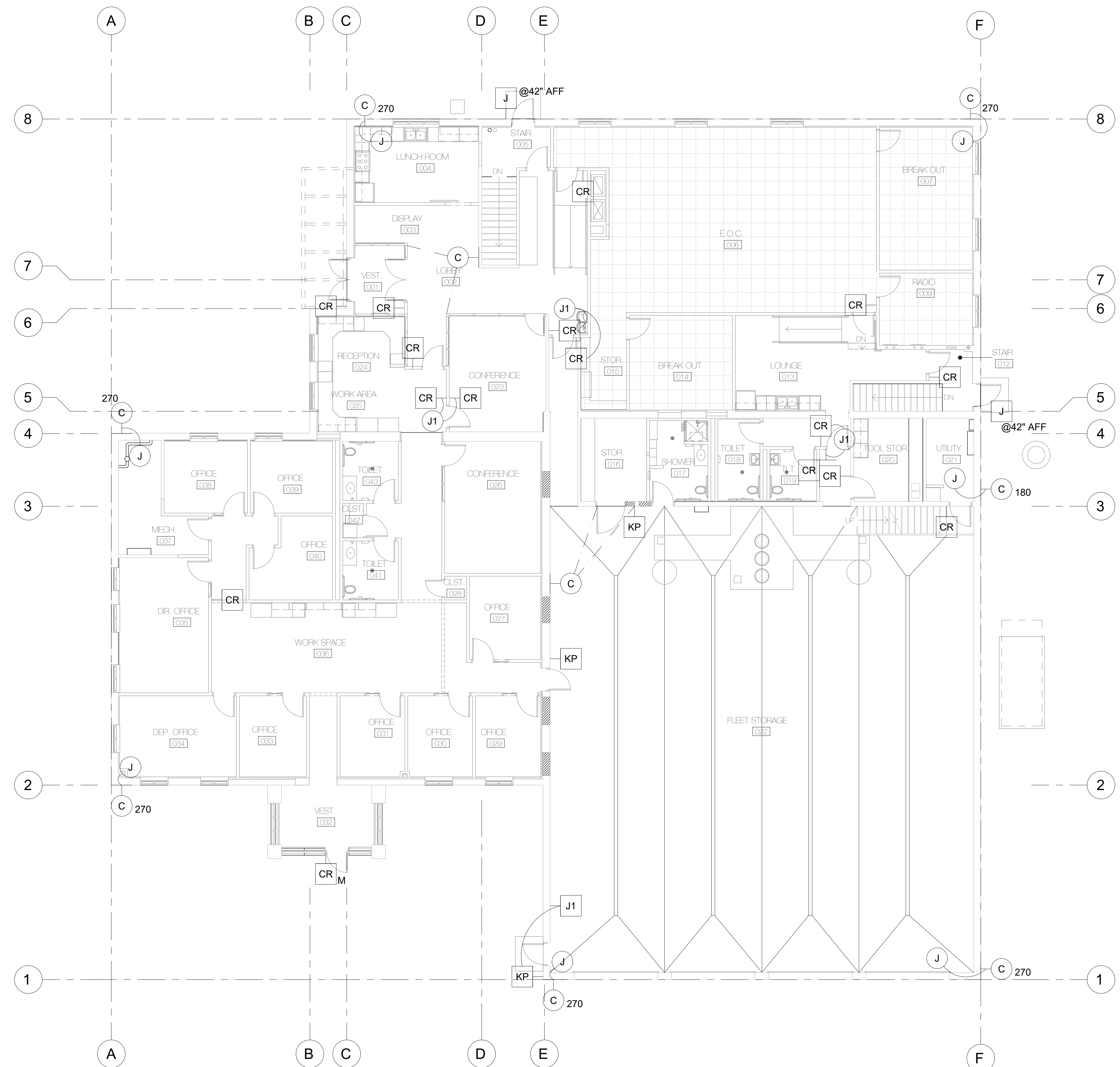
DANE COUNTY EMERGENCY
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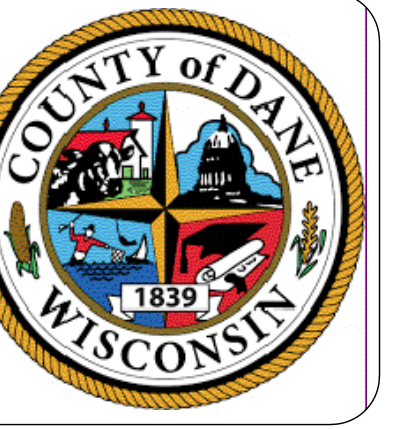
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FIRST FLOOR
 SECURITY PLAN
 SS1.0



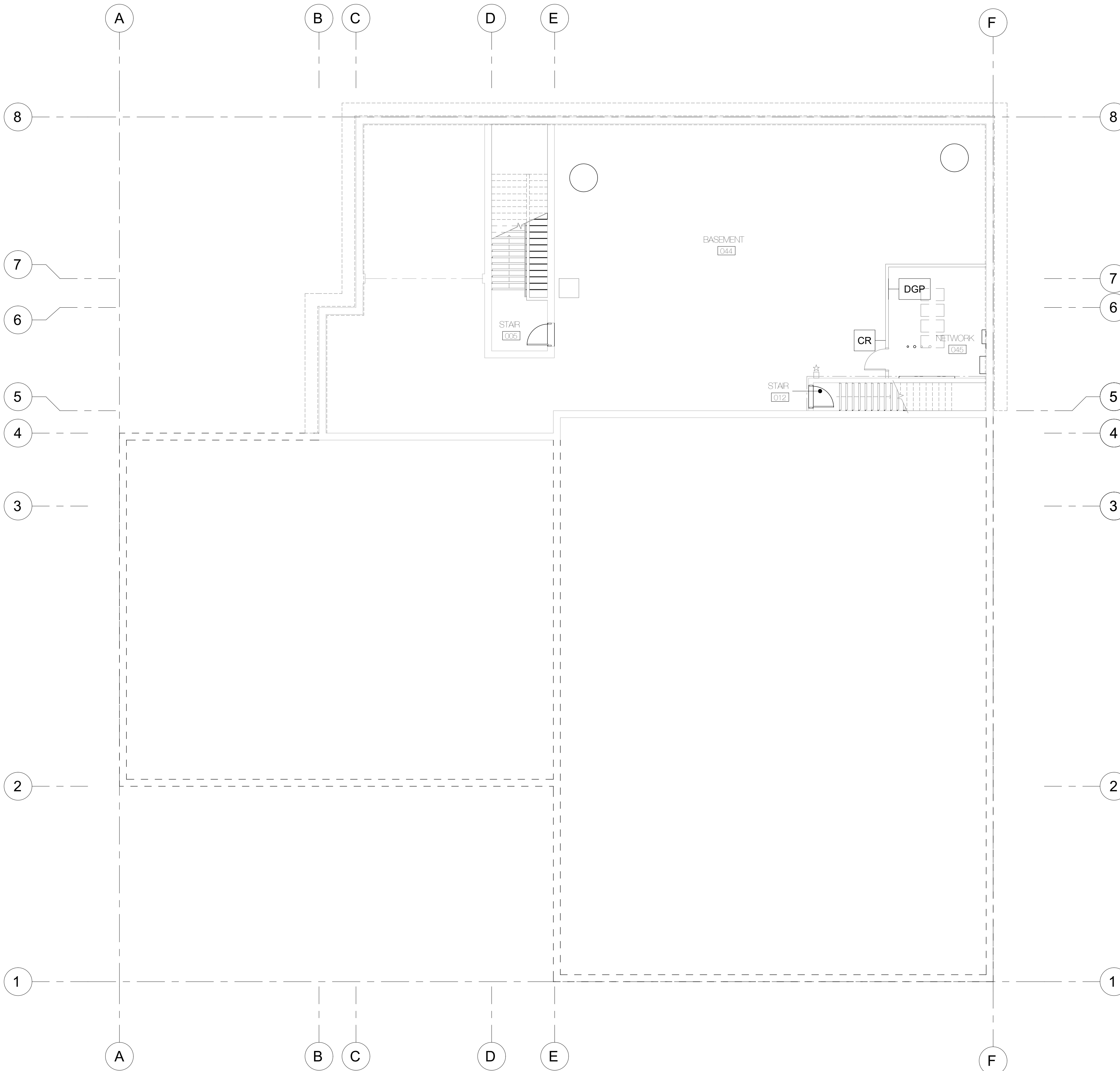
NOTE: SEE DRAWING PL-1 PRIOR TO CORDING THROUGH EXISTING PRE-CAST PLANK FLOORS.

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2 MEZZANINE SECURITY PLAN
1/8"=1'-0"

1 BASEMENT SECURITY PLAN
1/8"=1'-0"

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BASEMENT & MEZZANINE SECURITY PLAN
SS1.1

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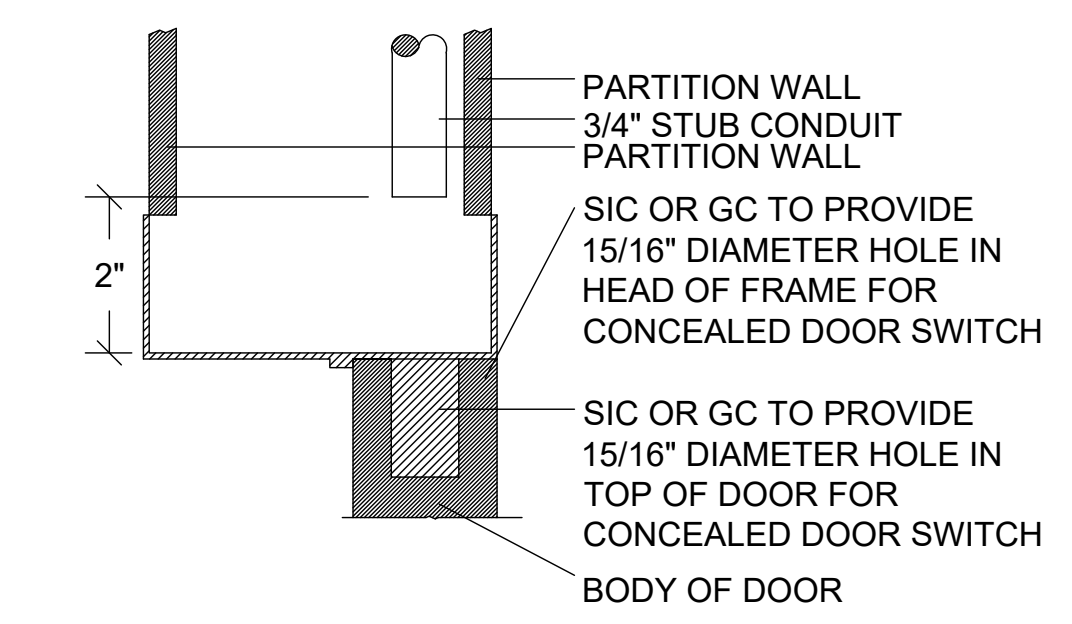
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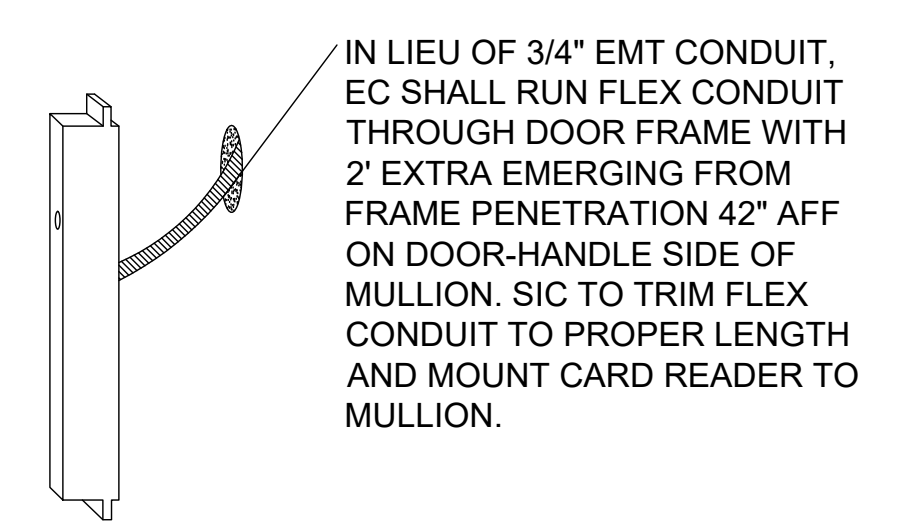
ACCESS CONTROL DETAILS
 SS2.0



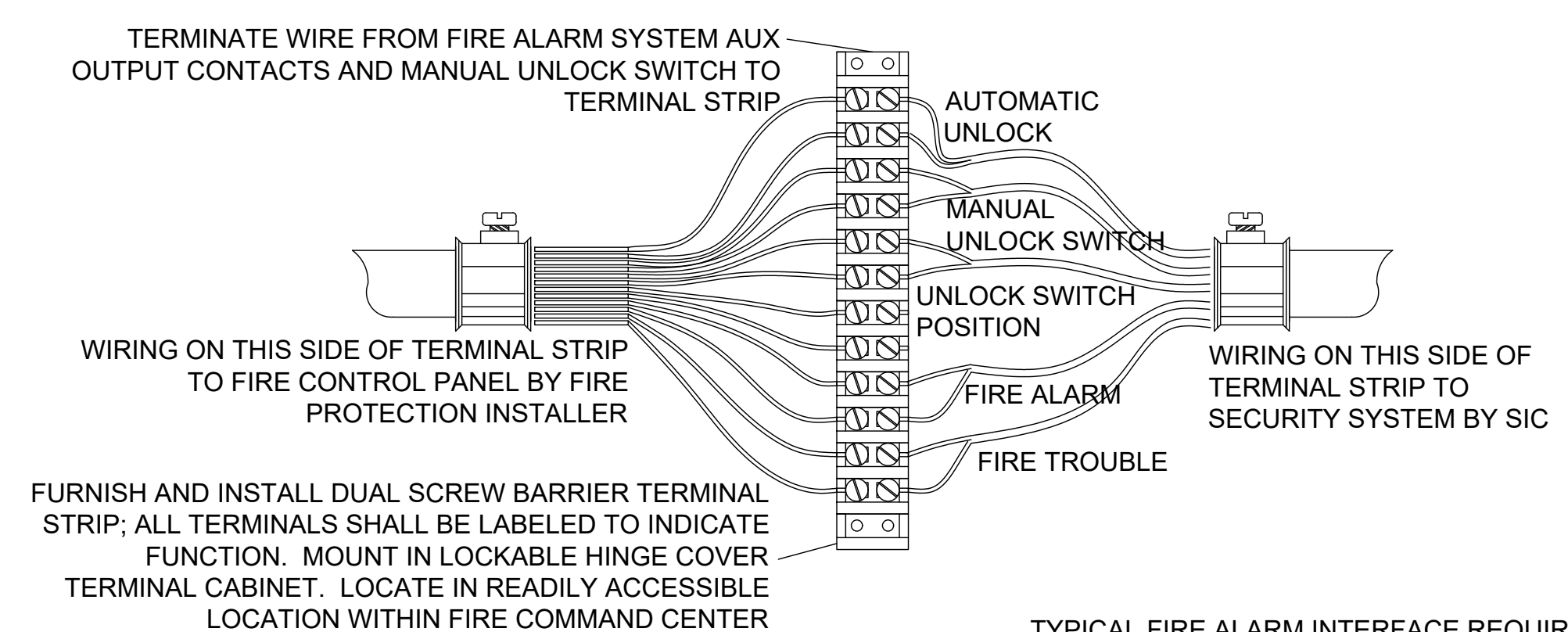
DC



TYPICAL DOOR CONTACT INSTALLATION DETAILS

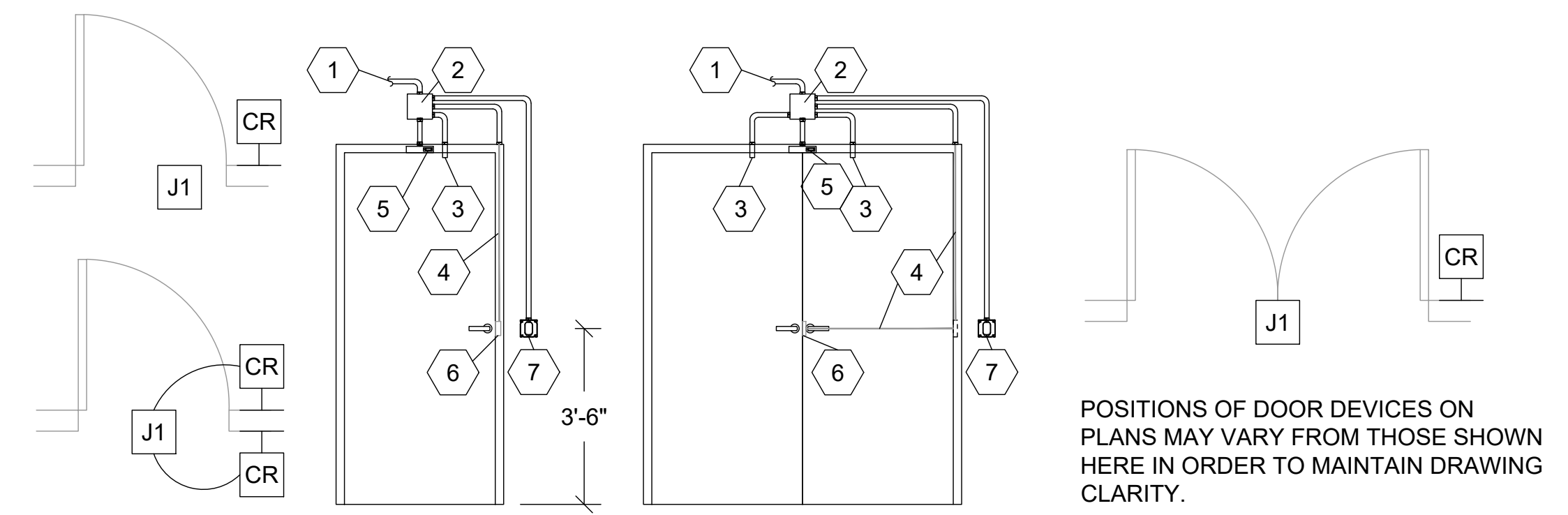


TYPICAL REQUIREMENTS FOR MULLION-MOUNTED CARD READERS



TYPICAL FIRE ALARM INTERFACE REQUIREMENTS

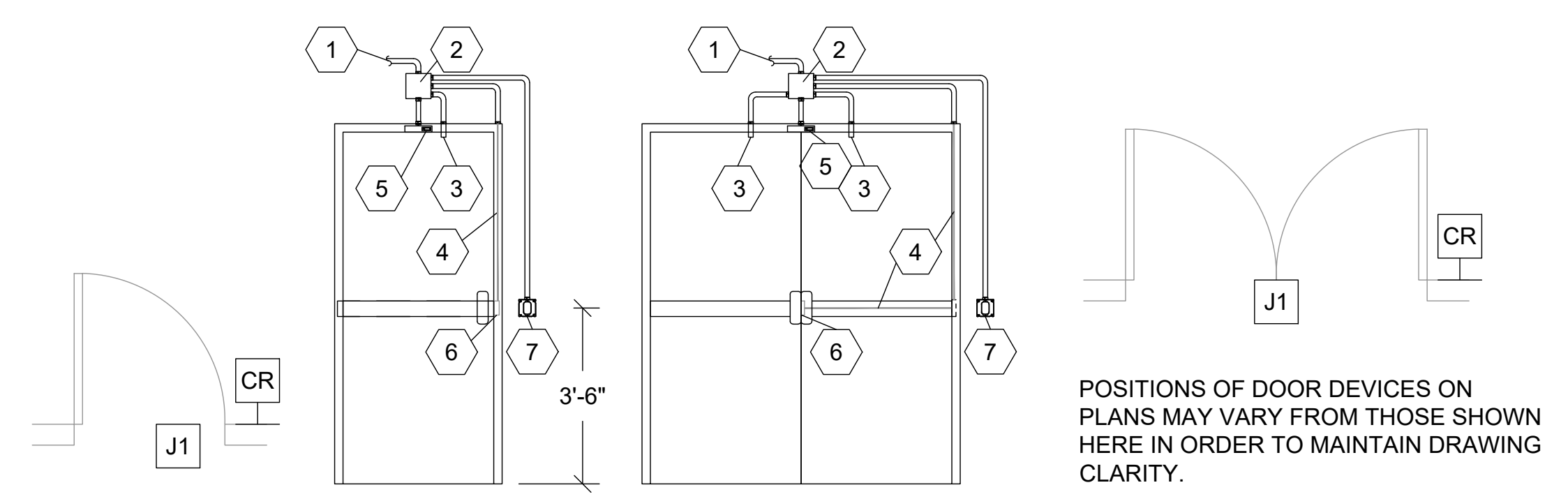
1 COMMON ACCESS CONTROL DETAILS



- 1" EMT CONDUIT (OR PLENUM PATHWAY AS REQUIRED) TO ACCESS CONTROL SYSTEM.
- SIC SHALL FURNISH BOX AND COVERPLATE, SURFACE-MOUNTED ABOVE FINISHED CEILING IN ACCESSIBLE LOCATION ON SECURE SIDE OF DOOR (WHERE POSSIBLE). SHOWN AS "J1" IN SECURITY DRAWINGS. SIC SHALL DETERMINE SIZE IN ORDER TO ACCOMMODATE ALL WIRING AND COMPONENTS.
- EC SHALL STUB 3/4" CONDUIT INTO DOOR FRAME FOR CONCEALED DOOR CONTACT POSITION SWITCH. SHOWN AS "DC" ON DRAWINGS.
- EC SHALL STUB 3/4" CONDUIT THROUGH DOOR FRAME FOR ELECTRIC STRIKE WIRING.
- SIC SHALL FURNISH AND INSTALL PASSIVE INFRARED REQUEST TO EXIT SENSOR ("REX" ON DRAWINGS) IN FRAME ABOVE DOOR. EC SHALL FURNISH 3/4" CONDUIT TO J1 BOX.
- CONTINUOUS DUTY ELECTRIC STRIKE, SHOWN AS "ES" ON THE DRAWINGS. REFER TO ARCHITECTURAL DOOR HARDWARE SCHEDULE FOR TYPE.
- EC SHALL EXTEND 1" CONDUIT TO 4" X 4" X 2-1/8" DEEP BACKBOX WITH SINGLE GANG TRIM RING, FLUSH MOUNTED ON EXTERIOR SIDE OF DOOR, FOR CARD READER. SHOWN AS "CR" ON DRAWINGS.

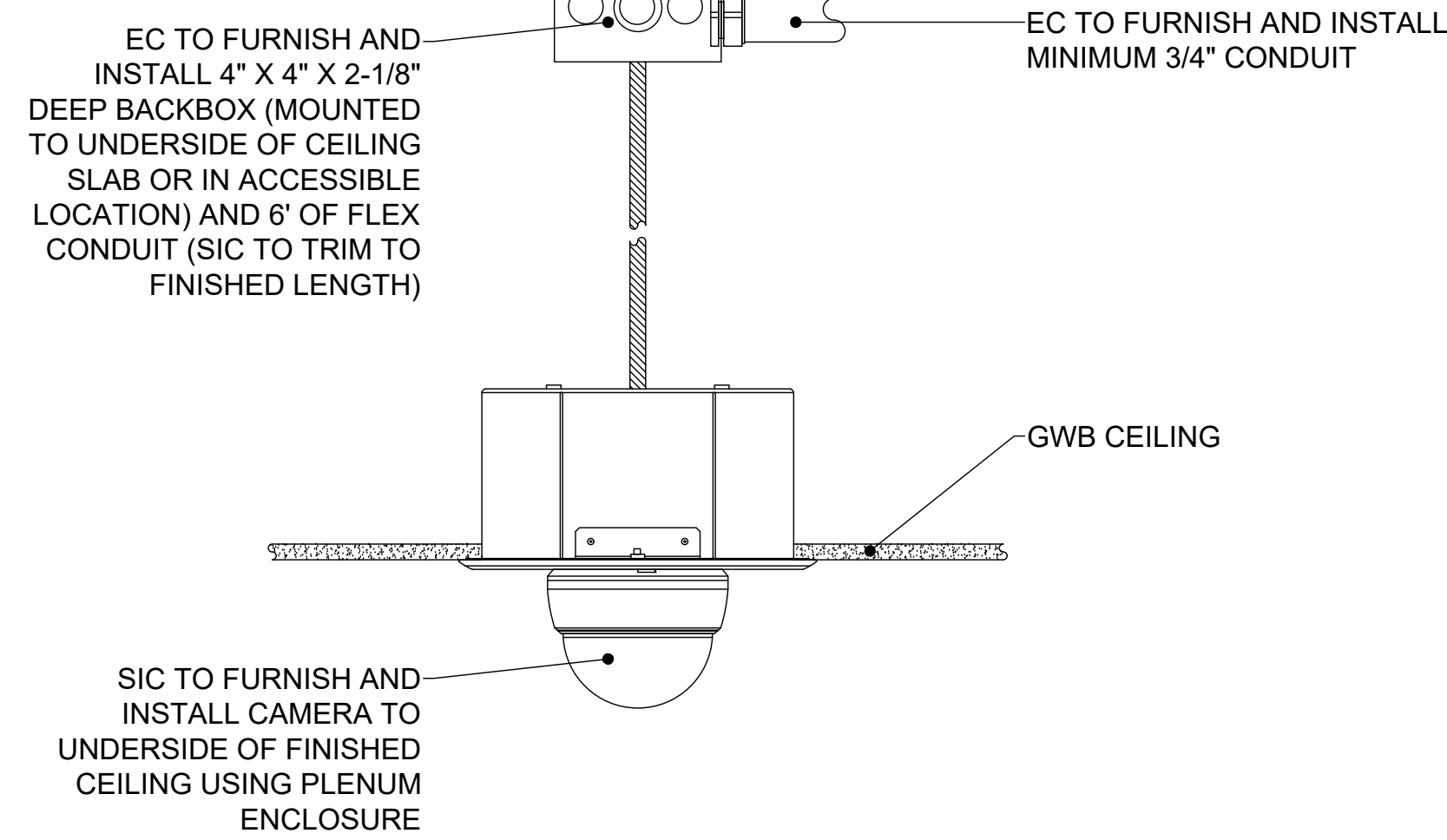
3 KEYPADS OR CARD READERS WITH ELECTRIC STRIKES

2 NOT USED

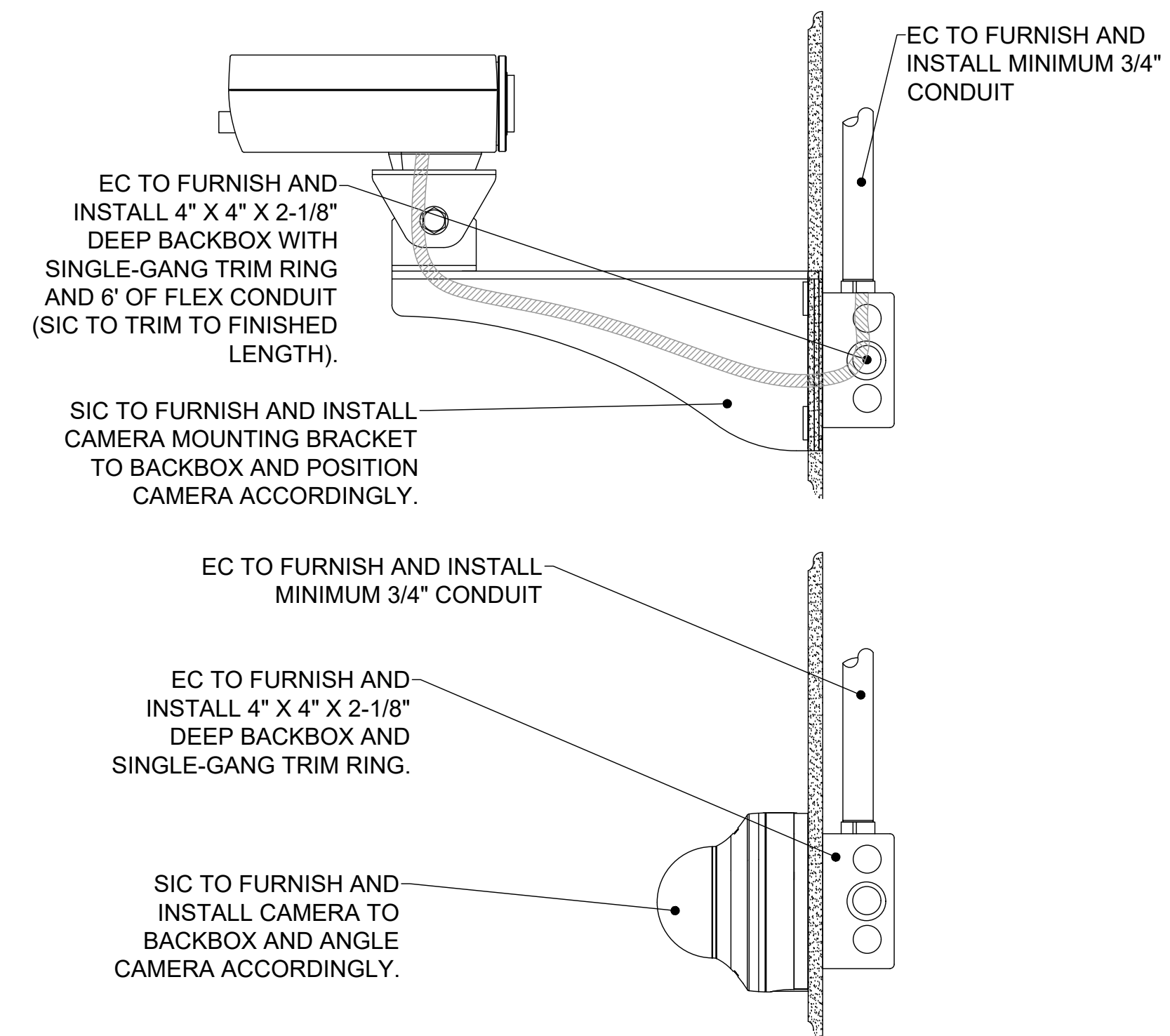


- 1" EMT CONDUIT (OR PLENUM PATHWAY AS REQUIRED) TO ACCESS CONTROL SYSTEM.
- SIC SHALL FURNISH BOX AND COVERPLATE, SURFACE-MOUNTED ABOVE FINISHED CEILING IN ACCESSIBLE LOCATION ON SECURE SIDE OF DOOR (WHERE POSSIBLE). SHOWN AS "J1" IN SECURITY DRAWINGS. SIC SHALL DETERMINE SIZE IN ORDER TO ACCOMMODATE ALL WIRING AND COMPONENTS.
- EC SHALL STUB 3/4" CONDUIT INTO DOOR FRAME FOR CONCEALED DOOR CONTACT POSITION SWITCH. SHOWN AS "DC" ON DRAWINGS.
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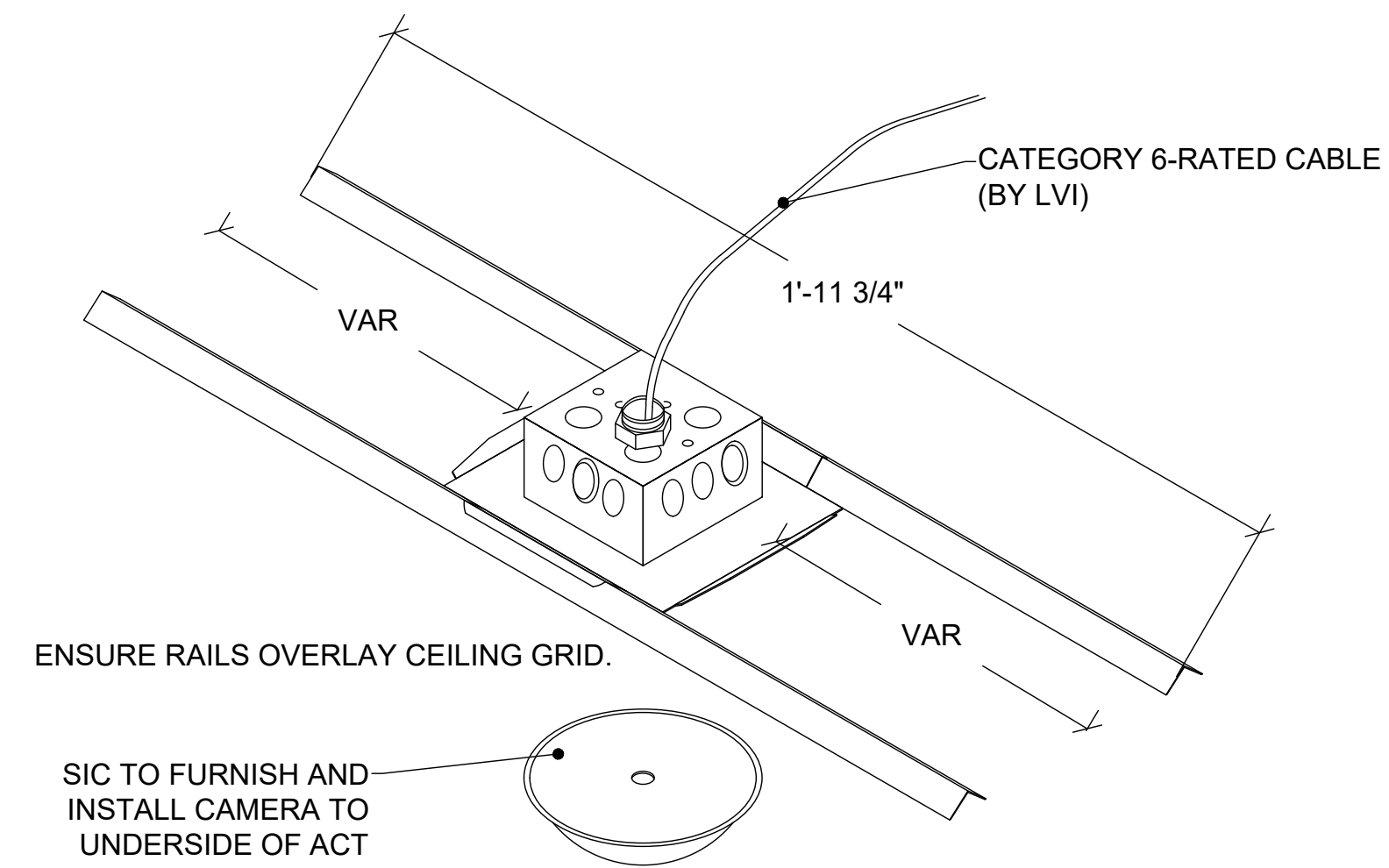
4 KEYPADS OR CARD READERS WITH AD84xx OR 85xx-SERIES EXIT DEVICES



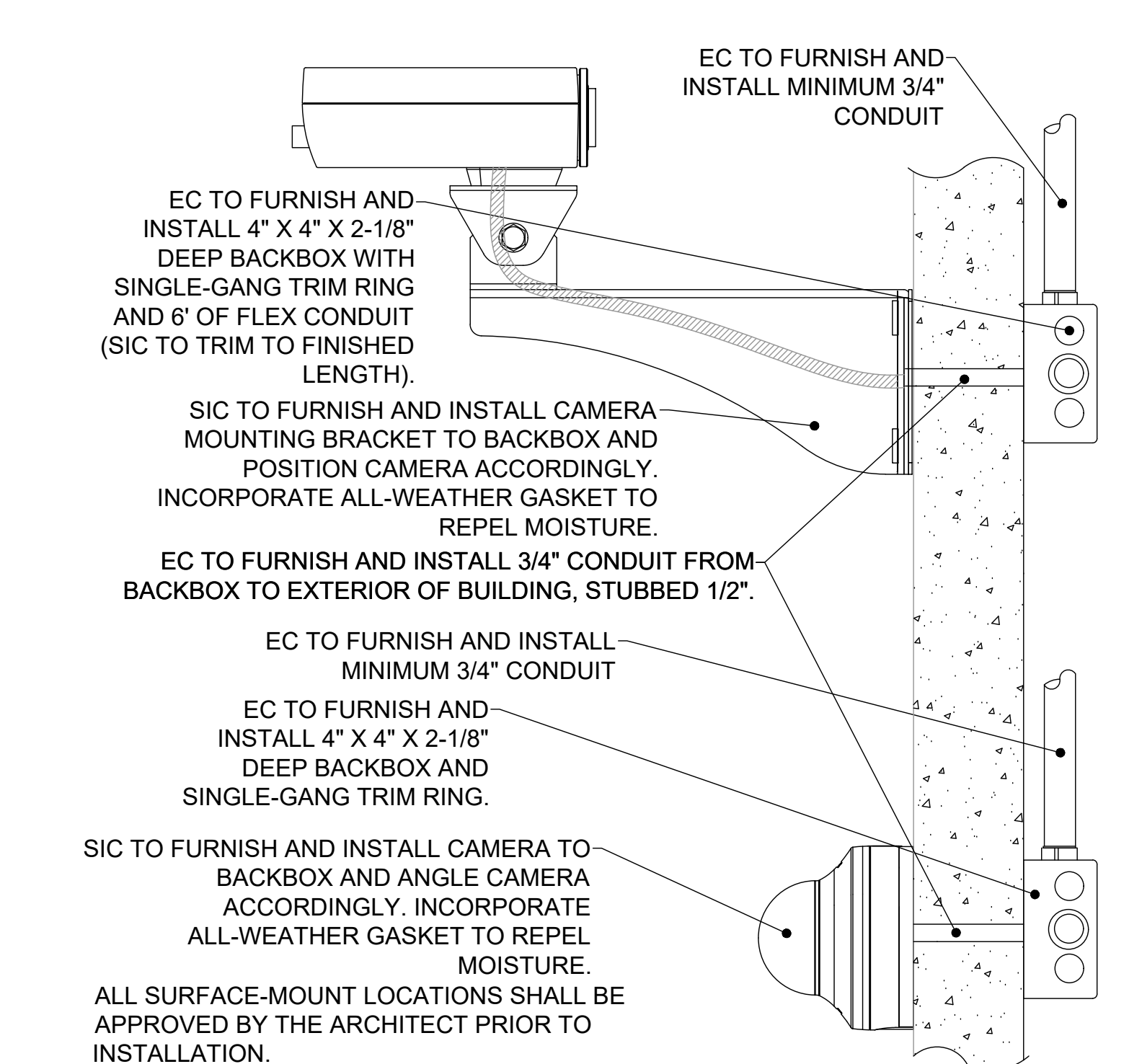
1 CAMERAS MOUNTED ON GWB CEILINGS OR SOFFITS



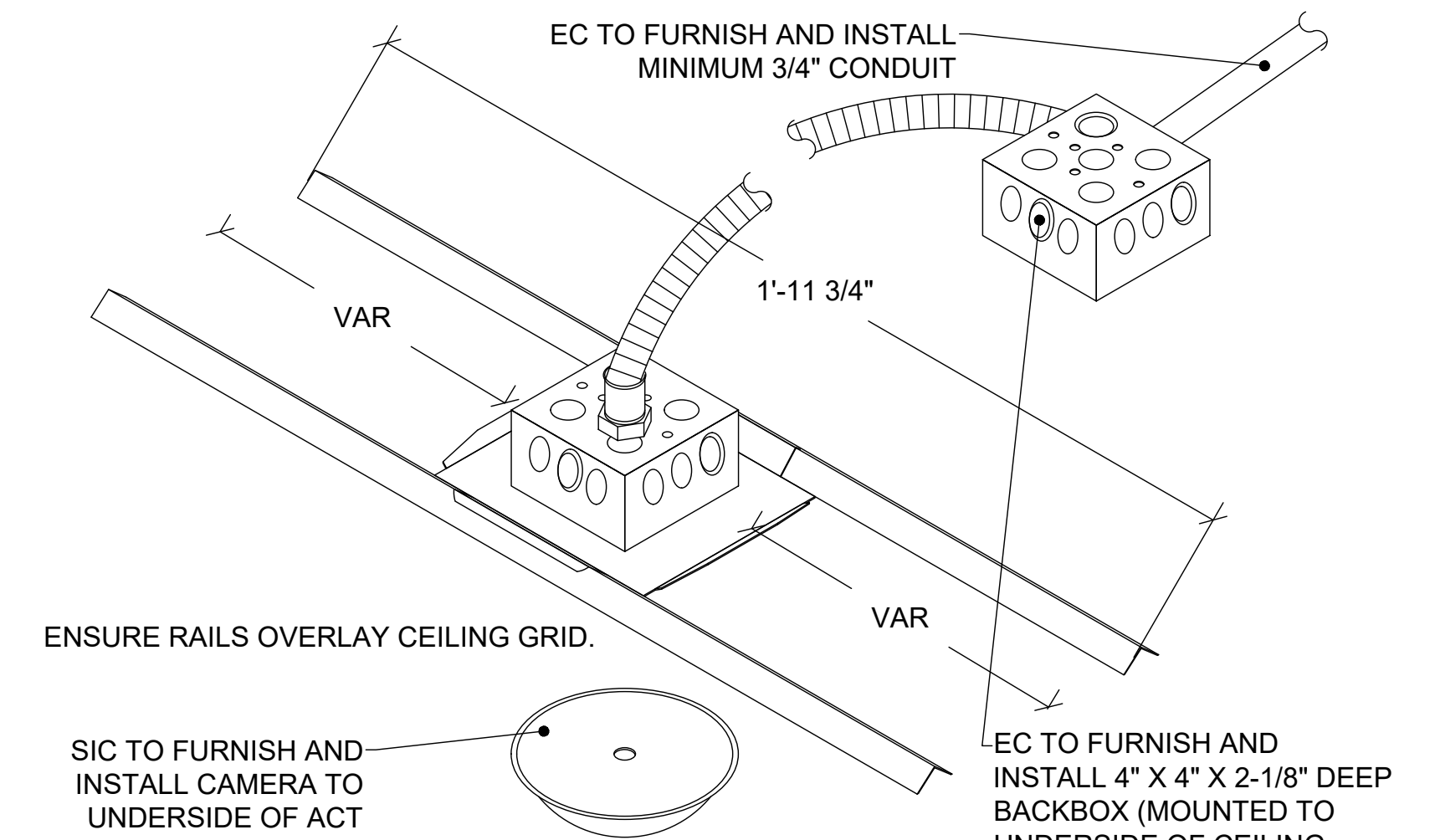
4 CAMERAS MOUNTED TO INTERIOR WALLS



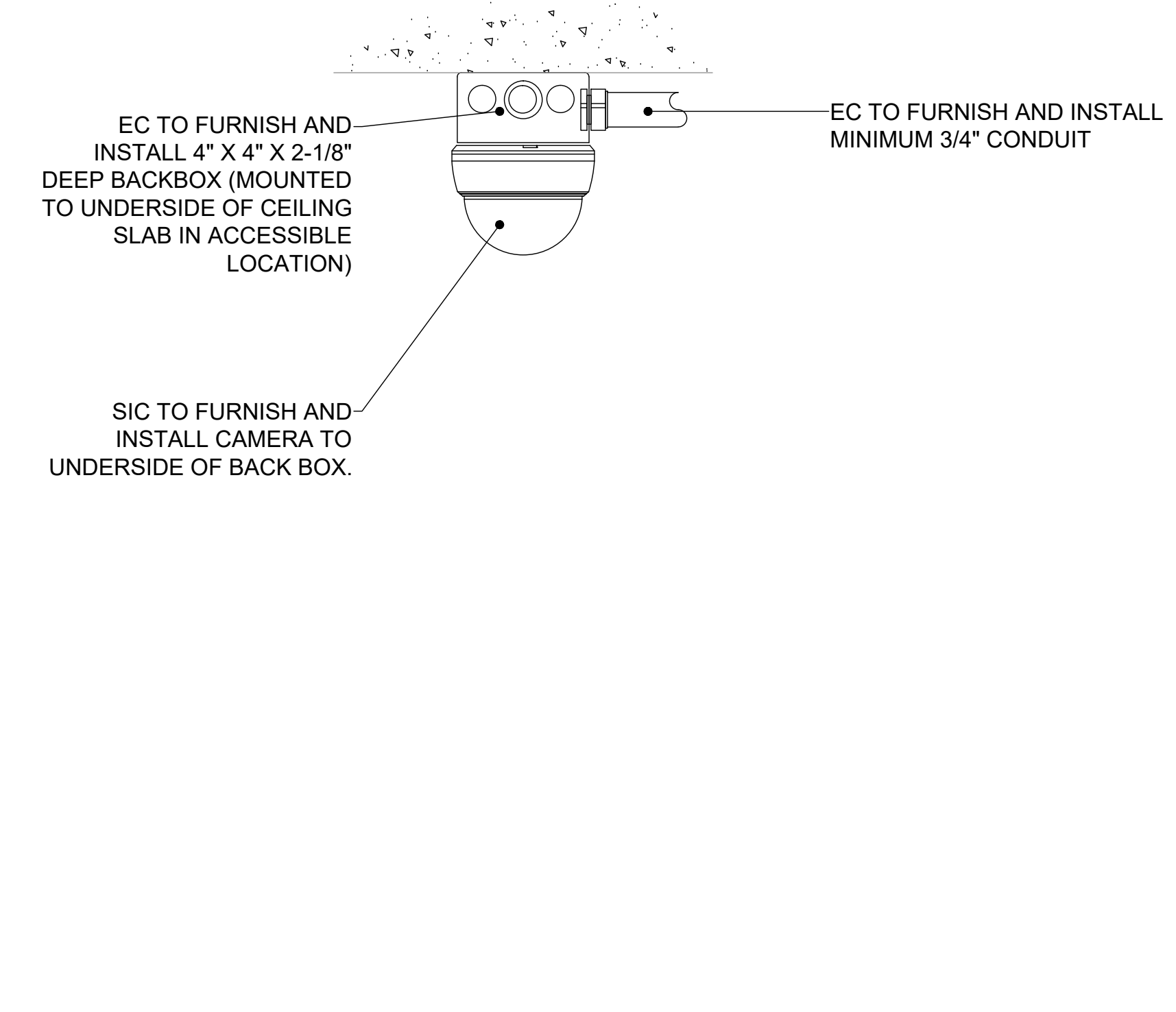
2 CAMERAS MOUNTED ON ACT CEILINGS



5 CAMERAS MOUNTED TO EXTERIOR WALLS



3 CAMERAS MOUNTED ON ACT CEILINGS IN CONDUIT AREAS



6 CAMERAS MOUNTED TO EXPOSED CEILING SPACES



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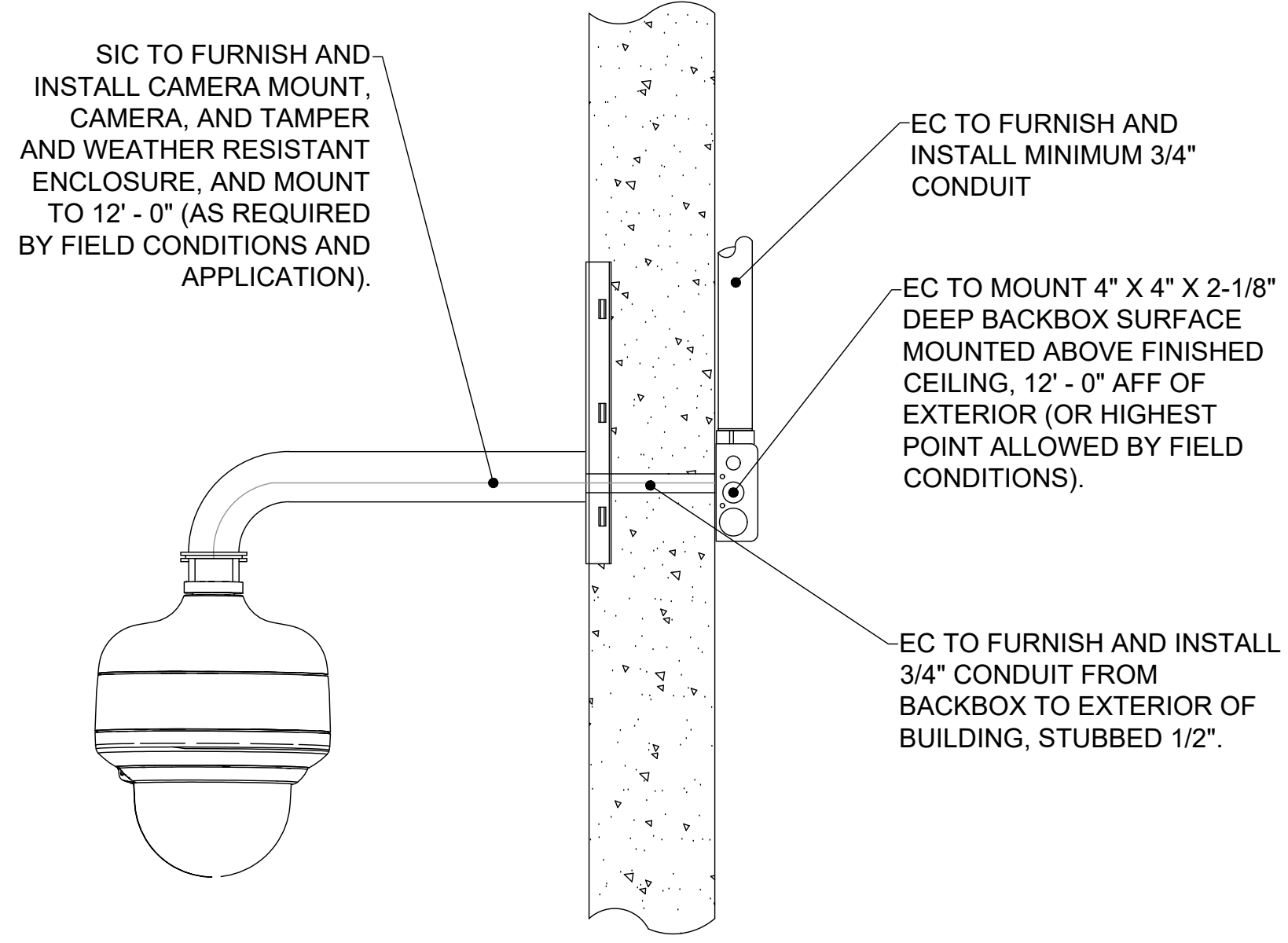
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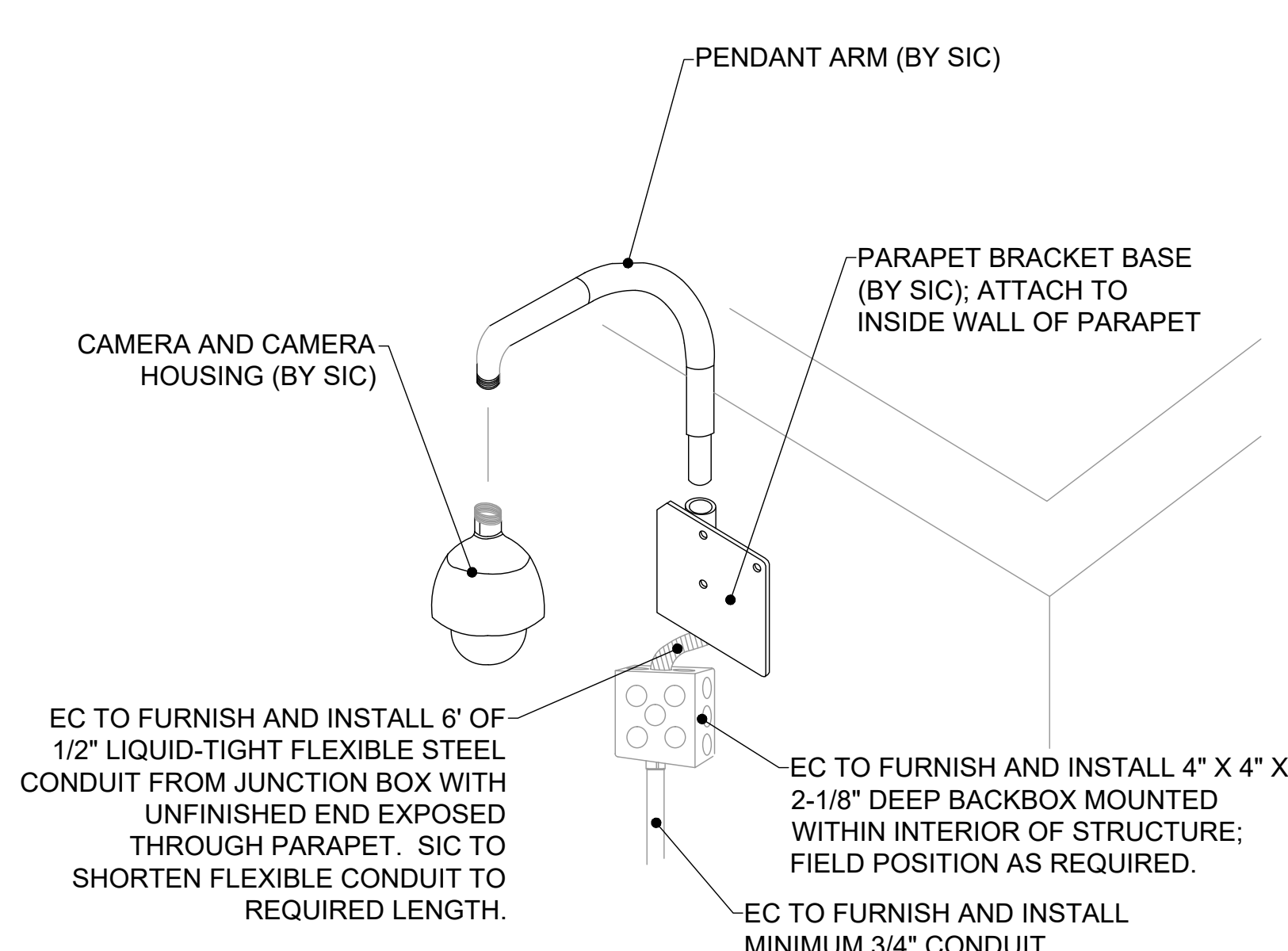
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VIDEO SURVEILLANCE DETAILS 1
 SS2.1



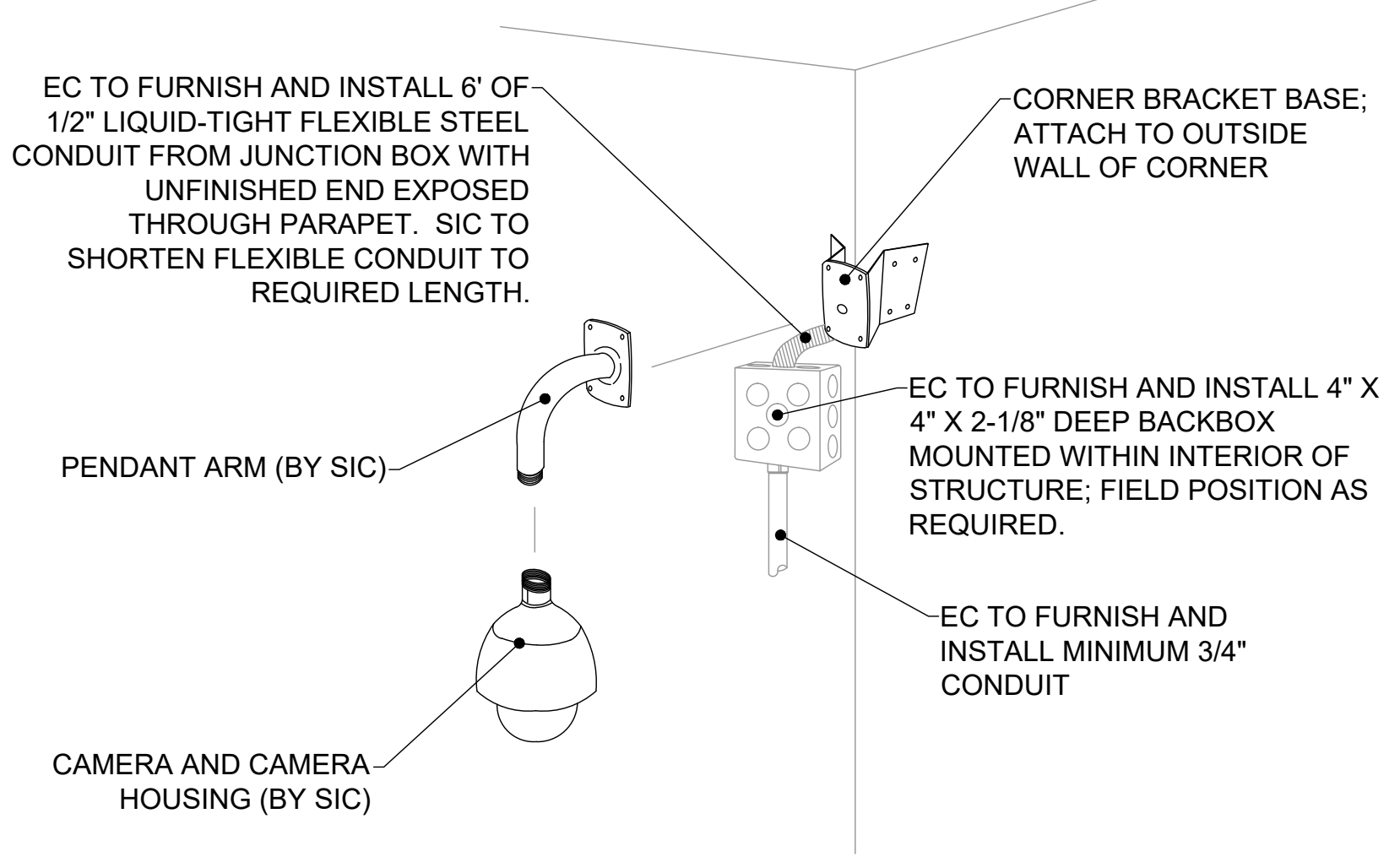
ALL COMPONENTS EXPOSED TO ELEMENTS (INCLUDING PENETRATIONS) SHALL BE GASKETED AND SEALED.

1 CAMERAS MOUNTED ON GOOSENECK EXTENSIONS



ALL COMPONENTS EXPOSED TO ELEMENTS (INCLUDING PENETRATIONS) SHALL BE GASKETED AND SEALED.

2 CAMERAS MOUNTED ON PARAPETS



ALL COMPONENTS EXPOSED TO ELEMENTS (INCLUDING PENETRATIONS) SHALL BE GASKETED AND SEALED.

3 CAMERAS MOUNTED ON OUTSIDE CORNERS (270-DEGREE CAMERAS)



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VIDEO SURVEILLANCE
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