

Lee's Summit R7 District Athletics Facilities

Lee's Summit High School
 400 SW Blue Parkway
 Lee's Summit, MO 64063

VOLUME 1 Cover Sheet

H-G000

September 28, 2020

Project Team:

owner:	architect:	structural engineer:	civil engineer:	mechanical/electrical engineer:
Lee's Summit R-7 School District 301 NE Tudor Road Lee's Summit, MO 64086	Gould Evans 4200 Pennsylvania Avenue Kansas City, MO 64111 816.931.6655 voice www.goulddevans.com	Bob D. Campbell & Company, 4338 Belleview Avenue Kansas City, MO 64111 816.531.4144	Kaw Valley Engineering 14700 West 114th Terrace Lenexa, KS 66215 913.485.0318	Henderson Engineers 8345 Lenexa Drive Suite 300 Lenexa, KS 66214 816.742.5000

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BID SET

0119-0101

18	17	16	15	14	13	12	11	10	9	8	7	6	5	4	3	2	1
Index of Drawings																	
Volume 1 - LSHS				Volume 2 - LSNHS				Volume 3 - LSWHS					SITE LOCATION MAP				
00 Covers H-G000 VOLUME 1 Cover Sheet				00 Covers N-G000 VOLUME 2 Cover Sheet				00 Covers W-G000 VOLUME 3 Cover Sheet					General Notes: 1. THE INTENT OF THE CONTRACT DOCUMENTS IS TO INCLUDE ALL ITEMS NECESSARY FOR THE PROPER EXECUTION AND COMPLETION OF THE WORK BY THE CONTRACTOR. THE CONTRACT DOCUMENTS ARE COMPLEMENTARY, AND WHAT IS REQUIRED BY ONE SHALL BE AS BINDING AS IF REQUIRED BY ALL. PERFORMANCE BY THE CONTRACTOR SHALL BE REQUIRED ONLY TO THE EXTENT CONSISTENT WITH THE CONTRACT DOCUMENTS AND REASONABLY INFERRABLE FROM THEM AS BEING NECESSARY TO PRODUCE THE INDICATED RESULTS. 2. ORGANIZATION OF THE SPECIFICATIONS INTO DIVISIONS, SECTIONS AND ARTICLES, AND ARRANGEMENT OF DRAWINGS SHALL NOT CONTROL THE CONTRACTOR IN DIVIDING THE WORK AMONG SUBCONTRACTORS OR IN ESTABLISHING THE EXTENT OF WORK TO BE PERFORMED BY ANY TRADE. 3. DRAWINGS, SPECIFICATIONS, GENERAL AND SUPPLEMENTARY CONDITIONS ARE ESSENTIAL PARTS OF THE CONTRACT. IN THE EVENT OF ANY DISCREPANCY BETWEEN A DRAWING AND FIGURES WRITTEN THEREON, THE FIGURES, UNLESS OBVIOUSLY INCORRECT, ARE TO GOVERN OVER SCALED DIMENSIONS. IN THE CASE OF ANY DISCREPANCY BETWEEN THE DRAWINGS AND THE SPECIFICATIONS, THE SPECIFICATIONS ARE TO GOVERN. IF THERE IS A DISCREPANCY BETWEEN LARGE AND SMALL SCALE DETAILS, THE LARGER SCALE DETAILS ARE TO GOVERN. SUPPLEMENTARY CONDITIONS SHALL GOVERN OVER SPECIFICATIONS, DRAWINGS AND GENERAL CONDITIONS. THE CONTRACTOR SHALL ADVISE THE ARCHITECT OF ANY DISCREPANCIES OR CONFLICTS BETWEEN CONTRACT DOCUMENTS AS SOON AS THEY ARE DISCOVERED. 4. NOTWITHSTANDING THE ABOVE, IN THE CASE OF INCONSISTENCY BETWEEN DRAWINGS AND SPECIFICATIONS, OR WITHIN EITHER DOCUMENT NOT CLARIFIED BY ADDENDUM OR BY ARCHITECT'S SUPPLEMENTAL INSTRUCTION, THE BETTER QUALITY OR GREATER QUANTITY SHALL BE PROVIDED. 5. DRAWINGS SHALL NOT BE SCALED TO DETERMINE DIMENSIONS. IF DIMENSIONS APPEAR TO BE INSUFFICIENT OR INCORRECT, THE CONTRACTOR SHALL REQUEST CLARIFICATION FROM THE ARCHITECT. 6. WHENEVER CONTRACT DOCUMENTS REASONABLY IMPLY MATERIALS OR INSTALLATION AS NECESSARY TO PRODUCE THE INTENDED RESULTS, BUT DO NOT FULLY DETAIL OR SPECIFY SUCH MATERIALS, THE CONTRACTOR SHALL PROVIDE THE MATERIALS AND LABOR REQUIRED FOR INSTALLATION NONETHELESS. 7. PROVIDE ALL WORK INDICATED UNLESS SPECIFICALLY INDICATED AS "NOT IN CONTRACT" (NIC), "FURNISHED BY OTHERS" (FBO) OR "EXISTING". 8. CONTRACT DOCUMENTS ARE INTENDED TO CONVEY DESIGN INTENT ONLY. PROVIDE PRODUCTS COMPLETE WITH ACCESSORIES, TRIM, FINISH, FASTENERS, AND OTHER ITEMS NEEDED FOR A COMPLETE INSTALLATION AND INDICATED USE AND EFFECT. 9. THESE NOTES ARE NOT INTENDED TO LIMIT THE RESPONSIBILITIES OF THE CONTRACTOR AS DEFINED ELSEWHERE IN THE CONTRACT DOCUMENTS				
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Architectural Corporation
Missouri License No. 2019022591 Date: 09/28/2020
Jay Browning Architect License No. A-2009022729

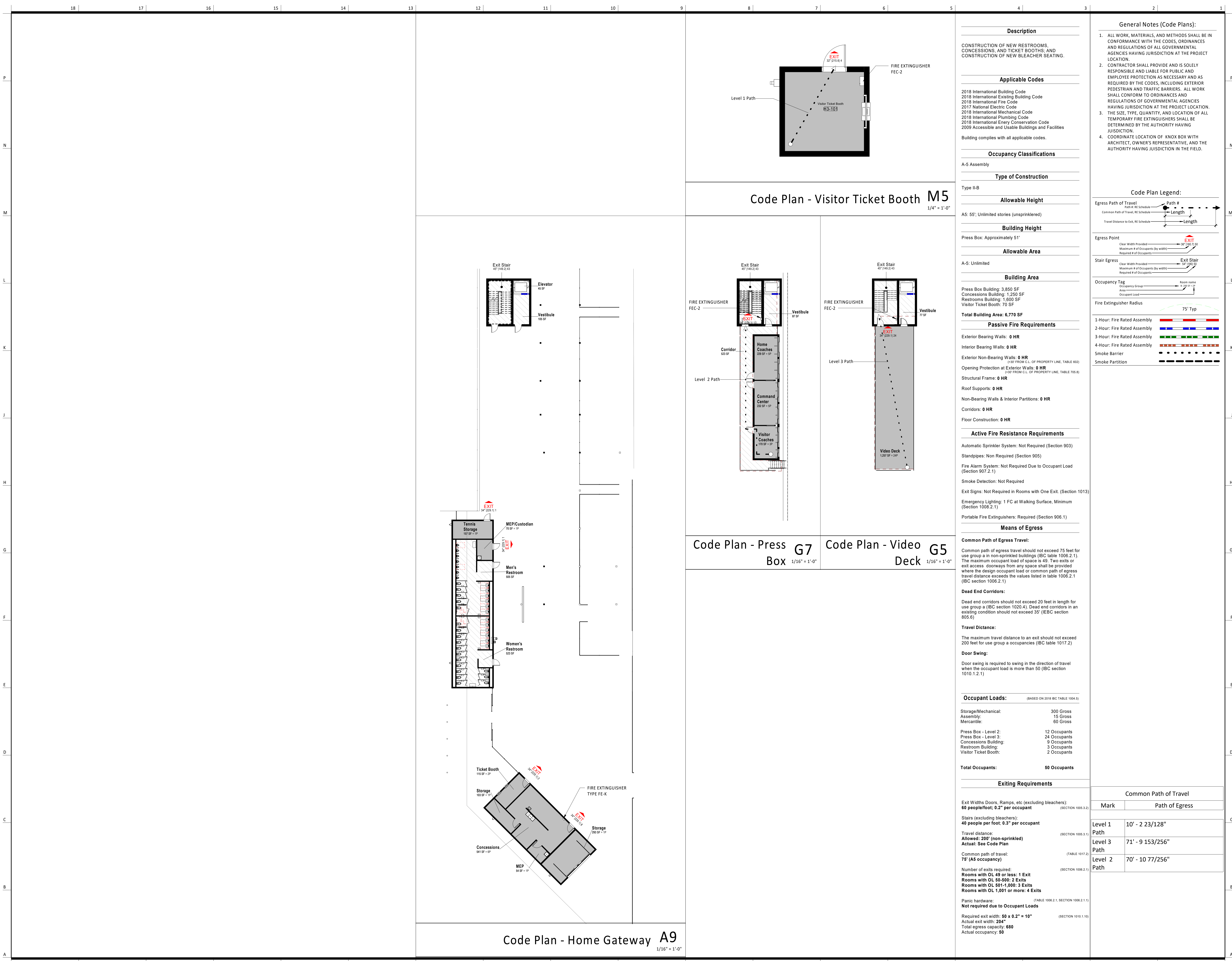
REVISIONS		
Number	DESCRIPTION	DATE

PROJECT NO: 0119-0101
DATE: September 28, 2020

Index of Drawings &
General Project Notes

H-G001

BID SET



Description
CONSTRUCTION OF NEW RESTROOMS, CONCESSIONS, AND TICKET BOOTHS AND CONSTRUCTION OF NEW BLEACHER SEATING.

Applicable Codes
2018 International Building Code
2018 International Existing Building Code
2018 International Fire Code
2017 National Electric Code
2018 International Mechanical Code
2018 International Plumbing Code
2018 International Energy Conservation Code
2009 Accessible and Usable Buildings and Facilities
Building complies with all applicable codes.

Occupancy Classifications
A-5 Assembly

Type of Construction
Type II-B

Allowable Height
A5: 55'; Unlimited stories (unsprinklered)

Building Height
Press Box: Approximately 51'

Allowable Area
A-5: Unlimited

Building Area
Press Box Building: 3,850 SF
Concessions Building: 1,200 SF
Restrooms Building: 1,600 SF
Visitor Ticket Booth: 70 SF
Total Building Area: 6,770 SF

Passive Fire Requirements
Exterior Bearing Walls: 0 HR
Interior Bearing Walls: 0 HR
Exterior Non-Bearing Walls: 0 HR (100' FROM C.L. OF PROPERTY LINE, TABLE 600)
Opening Protection at Exterior Walls: 0 HR (100' FROM C.L. OF PROPERTY LINE, TABLE 700.8)
Structural Frame: 0 HR
Roof Supports: 0 HR
Non-Bearing Walls & Interior Partitions: 0 HR
Corridors: 0 HR
Floor Construction: 0 HR

Active Fire Resistance Requirements
Automatic Sprinkler System: Not Required (Section 903)
Standpipes: Not Required (Section 905)
Fire Alarm System: Not Required Due to Occupant Load (Section 907.2.1)
Smoke Detection: Not Required
Exit Signs: Not Required in Rooms with One Exit. (Section 1013)
Emergency Lighting: 1 FC at Walking Surface, Minimum (Section 1006.2.1)
Portable Fire Extinguishers: Required (Section 906.1)

Means of Egress
Common Path of Egress Travel:
Common path of egress travel should not exceed 75 feet for use group a in non-sprinkled buildings (IBC table 1006.2.1). The maximum occupant load of space is 49. Two exits or exit access doorways from any space shall be provided where the design occupant load or common path of egress travel distance exceeds the values listed in table 1006.2.1 (IBC section 1006.2.1)

Dead End Corridors:
Dead end corridors should not exceed 20 feet in length for use group a (IBC section 1002.4). Dead end corridors in an existing condition should not exceed 35' (IEBC section 805.6)

Travel Distance:
The maximum travel distance to an exit should not exceed 200 feet for use group a occupancies (IBC table 1017.2)

Door Swing:
Door swing is required to swing in the direction of travel when the occupant load is more than 50 (IBC section 1010.1.2.1)

Occupant Loads: (BASED ON 2018 IBC TABLE 1004.5)
Storage/Mechanical: 300 Gross
Assembly: 15 Gross
Mercantile: 60 Gross
Press Box - Level 2: 12 Occupants
Press Box - Level 3: 24 Occupants
Concessions Building: 9 Occupants
Restroom Building: 3 Occupants
Visitor Ticket Booth: 2 Occupants
Total Occupants: 50 Occupants

Exiting Requirements
Exit Widths Doors, Ramps, etc (excluding bleachers): 60 people/foot; 0.2" per occupant (SECTION 1005.3.2)
Stairs (excluding bleachers): 40 people per foot; 0.3" per occupant (SECTION 1005.3.1)
Travel distance: Allowed: 200' (non-sprinkled) Actual: See Code Plan (SECTION 1017.2)
Common path of travel: 75' (AS occupancy) (TABLE 1017.2)
Number of exits required: Rooms with OL 49 or less: 1 Exit Rooms with OL 50-500: 2 Exits Rooms with OL 501-1,000: 3 Exits Rooms with OL 1,001 or more: 4 Exits (SECTION 1006.2.1)
Panic hardware: Not required due to Occupant Loads (TABLE 1006.2.1, SECTION 1006.2.1.1)
Required exit width: 50 x 0.2" = 10" (SECTION 1010.1.10)
Actual exit width: 20"
Total egress capacity: 680
Actual occupancy: 50

General Notes (Code Plans):

- ALL WORK, MATERIALS, AND METHODS SHALL BE IN CONFORMANCE WITH THE CODES, ORDINANCES AND REGULATIONS OF ALL GOVERNMENTAL AGENCIES HAVING JURISDICTION AT THE PROJECT LOCATION.
- CONTRACTOR SHALL PROVIDE AND IS SOLELY RESPONSIBLE AND LIABLE FOR PUBLIC AND EMPLOYEE PROTECTION AS NECESSARY AND AS REQUIRED BY THE CODES, INCLUDING EXTERIOR PEDESTRIAN AND TRAFFIC BARRIERS. ALL WORK SHALL CONFORM TO ORDINANCES AND REGULATIONS OF GOVERNMENTAL AGENCIES HAVING JURISDICTION AT THE PROJECT LOCATION.
- THE SIZE, TYPE, QUANTITY, AND LOCATION OF ALL TEMPORARY FIRE EXTINGUISHERS SHALL BE DETERMINED BY THE AUTHORITY HAVING JURISDICTION.
- COORDINATE LOCATION OF KNOX BOX WITH ARCHITECT, OWNER'S REPRESENTATIVE, AND THE AUTHORITY HAVING JURISDICTION IN THE FIELD.

Code Plan Legend:

Egress Path of Travel:
Path #
Common Path of Travel, RE Schedule
Travel Distance to Exit, RE Schedule

Egress Point:
Clear Width Provided
Maximum # of Occupants (By width)
Required # of Occupants

Stair Egress:
Clear Width Provided
Maximum # of Occupants (By width)
Required # of Occupants

Occupancy Tag:
Occupancy Group
Room name
Area
Occupant Load

Fire Extinguisher Radius: 75' Typ

1-Hour: Fire Rated Assembly
2-Hour: Fire Rated Assembly
3-Hour: Fire Rated Assembly
4-Hour: Fire Rated Assembly

Smoke Barrier
Smoke Partition

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Lee's Summit R7 District Athletics Facilities

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Lee's Summit, MO 64063

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JAY BROWNING
ARCHITECT
9.28.20

Architectural Preparation
Missouri License No. 20180022991
Date: 09/28/2020
Jay Browning
Architect License No. A-2009027279

REVISIONS

Number	DESCRIPTION	DATE

PROJECT NO: 0119-0101
DATE: September 28, 2020

Code Plan - Level 1
H-G101
BID SET

PREPARED FOR:
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EMAIL: wood@kveng.com

SITE BENCHMARKS:
BM-60
FOURD OUT SQUARE AT THE WEST NORTHWEST
CORNER HEADWALL ON THE WEST SIDE OF THE
EAST ENTRY DRIVE TO LEE'S SUMMIT HIGH
SCHOOL.
ELEVATION= 1042.70
BM-61
SET OUT SQUARE WITH PUNCH IN THE
SOUTHWEST CORNER ON A CONCRETE LIGHT BASE
ON THE NORTH SIDE OF THE DRIVE LANE AT
THE HIGH SCHOOL ADMINISTRATION CENTER
ENTRY.
ELEVATION= 1042.74
BM-62
SET OUT SQUARE AT THE NORTHEAST CORNER
OF THE FIRST STEP UP OF A CONCRETE WALK
ON THE NORTH SIDE OF THE EAST MAIN WING.
ELEVATION= 1040.51
BM-63
SET OUT SQUARE AT THE TOP NORTHEAST
CORNER OF A CONCRETE PATIO WITH COVERED
TABLES ON THE EAST SIDE OF BUILDING "B".
ELEVATION= 1015.74
BM-64
SET OUT SQUARE AT THE TOP NORTHEAST
CORNER OF STEPS TO THE NORTH ENTRY TO
BUILDING "B" ON THE WEST SIDE.
ELEVATION= 1015.34

LEE'S SUMMIT HIGH SCHOOL SITE PLAN 400 SE BLUE PARKWAY, LEE'S SUMMIT, MO 64063 SECTION 8 - TOWNSHIP 47 N - RANGE 31 W

HORIZONTAL AND VERTICAL DATUM:
UNLESS OTHERWISE NOTED THE COORDINATES SHOWN HEREON ARE GROUND
COORDINATES BASED ON THE MISSOURI STATE PLANE (1983) WEST ZONE
(NAD 1983) (NAD 1983)
EASTING: 860950.475 (GRID/METERS) 2824923.492 (GROUND/FEET)
ELEVATION: 321.8 (METERS) 1055.77 (FEET)
NORTHING: 303646.030 (GRID/METERS) 996313.829 (GROUND/FEET)
EASTING: 860950.475 (GRID/METERS) 2824923.492 (GROUND/FEET)
ELEVATION: 321.8 (METERS) 1055.77 (FEET)

- NOTES:**
- DISTURBED AREA SHALL BE FERTILIZED, MULCHED AND SEEDED WITH A THREE WAY BLEND OF TALL TURF TYPE FESCUE. (REFER TO SEEDING REQUIREMENTS ON SHEET W-090.) ALL SEEDED AREAS WITHIN 10' OF SIDEWALKS AND BUILDING, WITHIN 5' OF STORM OUTFALLS AND ON SLOPES STEEPER THAN 4:1 SHALL BE PROTECTED WITH A TYPE 2 EROSION CONTROL BLANKET (NORTH AMERICAN GREEN S758N OR APPROVED EQUAL.)
 - CONCRETE STOOP (REFERENCE STRUCTURAL PLANS)
 - PROPOSED FENCING (REFERENCE ARCHITECTURAL PLANS FOR DETAILS AND FENCING OUTSIDE DRAWING LIMITS)
 - WHITE PARKING LOT STRIPING (SEE SPECIFICATIONS THIS SHEET)
 - GORE AREA, 4" WHITE STRIPE AT 45 TO DIRECTION OF TRAVEL, SPACE AT 2'
 - PAINT CURB YELLOW TO DENOTE FIRE LANE, CONFIRM LIMITS WITH FIRE DEPARTMENT. (SEE SPECIFICATIONS THIS SHEET)
 - CAST IN PLACE CONCRETE WALL (REFER TO ARCHITECTURAL AND STRUCTURAL PLAN SHEETS FOR DETAILS AND H-C350 FOR LINE AND GRADE)
 - STORM SEWER STRUCTURE (SEE C600 SERIES SHEETS)
 - SANITARY SEWER STRUCTURE (SEE SHEET C500 SERIES SHEETS)
 - PROPOSED TRANSFORMER ON HOUSE KEEPING PAD/ELECTRICAL APPURTENANCE, COORDINATE WITH MEP PLANS.

- DETAILS - SEE DETAIL SHEETS H-C190 AND H-C195 FOR THE FOLLOWING DETAILS**
- 001 CONCRETE CURB AND GUTTER
 - 002 ZERO HEIGHT CURB
 - 003 STRAIGHT CURB
 - 005 INTEGRAL CURB AND SIDEWALK
 - 030 EDGE MILL AND OVERLAY
 - 040 ASPHALT PAVEMENT
 - 055 CONCRETE SIDEWALK
 - 056 CONCRETE RAMP
 - 060 SIDEWALK RAMP
 - ESC-01 CONSTRUCTION ENTRANCE AND CONCRETE WASHOUT

CONSTRUCTION NOTES:

- COORDINATE START-UP AND ALL CONSTRUCTION ACTIVITIES WITH THE ARCHITECT.
- CONSTRUCTION METHODS AND MATERIALS NOT SPECIFIED IN THESE PLANS ARE TO MEET OR EXCEED THE KANSAS CITY METROPOLITAN CHAPTER OF APWA STANDARD SPECIFICATIONS AS ADOPTED AND AMENDED BY THE CITY OF LEE'S SUMMIT.
- ALL CONSTRUCTION WORK AND UTILITY WORK OUTSIDE OF PROPERTY BOUNDARIES SHALL BE PERFORMED IN COOPERATION WITH AND IN ACCORDANCE WITH REGULATIONS OF THE AUTHORITIES CONCERNED.
- PUBLIC CONVENIENCE AND SAFETY: THE CONTRACTOR SHALL CONDUCT THE WORK IN A MANNER THAT WILL INSURE, AS FAR AS PRACTICABLE, THE LEAST OBSTRUCTION TO TRAFFIC, AND SHALL PROVIDE FOR THE CONVENIENCE AND SAFETY OF THE GENERAL PUBLIC, ALONG AND ADJACENT TO CONSTRUCTION AREA.
- CONTRACTOR IS REQUIRED TO PROTECT TRACK AND TENNIS COURTS DURING CONSTRUCTION. STAGE WORK AND ACCESS ACCORDINGLY. DAMAGE TO TRACK PAVING OR SURFACING CAUSED BY CONSTRUCTION ACTIVITIES WILL BE REPAIRED AT CONTRACTOR'S EXPENSE. TEMPORARY FENCING MAY BE REQUIRED AROUND TENNIS COURT AND TRACK IF WORK SCHEDULE CONFLICTS WITH LSHS ATHLETICS SCHEDULE. COORDINATE WITH SCHOOL DISTRICT.
- WORK SOUTH AND WEST OF DEMARCATION LINE IS LIMITED TO THE EXTENTS NECESSARY TO EXCAVATE AND INSTALL UTILITIES AND FIE-OUT GRADE TO EXISTING PAVING. UPON COMPLETION, PAVING SHALL SLOPE TO WEST. COORDINATE CONSTRUCTION SCHEDULE WITH LEE'S SUMMIT SCHOOL DISTRICT AND JE DUNN CONSTRUCTION.
- REFER TO SHEET H-C190 FOR SECTIONS A-A, B-B, C-C AND D-D.

MARKING MATERIALS: APWA 2306.7G

ALL SURFACES - TRAFFIC MARKING PAINT, COLOR AS INDICATED.

PAVEMENT MARKING SPECIFICATIONS:

PAVEMENT MARKINGS SHALL BE INSTALLED IN ACCORDANCE WITH THE LATEST EDITION OF THE CITY OF KANSAS CITY, MISSOURI CHAPTER OF THE AMERICAN PUBLIC WORKS ASSOCIATION SPECIFICATIONS SECTION 2306 AS ADOPTED AND AMENDED BY THE CITY OF LEE'S SUMMIT.

STORM WATER MANAGEMENT:

STORM WATER MANAGEMENT IS PROPOSED AS PART OF THE OVERALL LEE'S SUMMIT HIGH SCHOOL PROJECT AND COMPLIES WITH THE KC METROPOLITAN CHAPTER OF APWA DESIGN CRITERIA SECTION 5600. PROPOSED STORM WATER MANAGEMENT SYSTEM WILL MITIGATE INCREASES IN RUNOFF FOR THE STORM EVENTS ANALYZED TO A RATE AT OR LESS THAN THE EXISTING CONDITIONS.

UNDERGROUND UTILITY STATEMENT:

THE UNDERGROUND UTILITIES SHOWN HEREON ARE DERIVED FROM FIELD SURVEY OR THE SCALING AND PLOTTING OF EXISTING UTILITY MAPS AND DRAWINGS MADE AVAILABLE TO THE SURVEYOR AT THE TIME OF SURVEY. THE SURVEYOR DOES NOT CERTIFY THAT THE UNDERGROUND UTILITIES SHOWN COMPRISE ALL UNDERGROUND UTILITIES IN THE AREA, EITHER IN SERVICE OR ABANDONED. FURTHERMORE, THE SURVEYOR DOES NOT CERTIFY THAT THE UNDERGROUND UTILITIES SHOWN ARE IN THE EXACT LOCATION DEPICTED ALTHOUGH HE DOES CERTIFY THAT THEY ARE DEPICTED AS ACCURATELY AS POSSIBLE FROM INFORMATION MADE AVAILABLE TO THE SURVEYOR AT THE TIME OF SURVEY. THE SURVEYOR HAS NOT PHYSICALLY LOCATED THE UNDERGROUND UTILITIES SHOWN HEREON BY EXCAVATION UNLESS OTHERWISE NOTED ON THIS SURVEY. MISSOURI ONE CALL TICKET NUMBER: #200431409, 200431440, 200431475, 200440745.

WARRANTY / DISCLAIMER

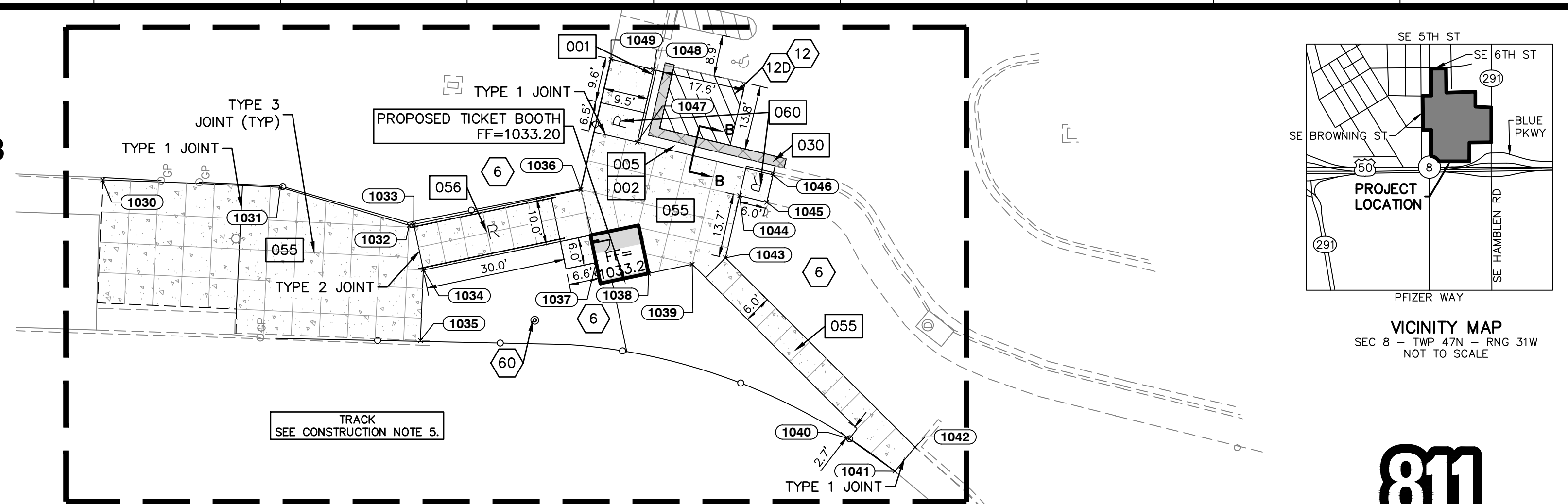
THE DESIGNS REPRESENTED IN THESE PLANS ARE IN ACCORDANCE WITH ESTABLISHED PRACTICES OF CIVIL ENGINEERING FOR THE DESIGN FUNCTIONS AND USES INTENDED BY THE OWNER AT THIS TIME. HOWEVER, NEITHER KAW VALLEY ENGINEERING, INC NOR ITS PERSONNEL CAN OR DO WARRANTY THESE DESIGNS OR PLANS AS CONSTRUCTED, EXPERT IN THE SPECIFIC CASES WHERE KAW VALLEY ENGINEERING PERSONNEL INSPECT AND CONTROL THE PHYSICAL CONSTRUCTION ON A CONTEMPORARY BASIS AT THE SITE.

CAUTION - NOTICE TO CONTRACTOR

THE CONTRACTOR IS SPECIFICALLY CAUTIONED THAT THE LOCATION AND/OR ELEVATION OF EXISTING UTILITIES AS SHOWN ON THESE PLANS IS BASED ON RECORDS OF THE VARIOUS UTILITY COMPANIES AND, WHERE POSSIBLE, MEASUREMENTS TAKEN IN THE FIELD. THE INFORMATION IS NOT TO BE RELIED ON AS BEING EXACT OR COMPLETE. THE CONTRACTOR MUST CALL THE APPROPRIATE UTILITY COMPANY AT LEAST 72 HOURS BEFORE ANY EXCAVATION TO REQUEST EXACT FIELD LOCATION OF UTILITIES. IT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR TO RELOCATE ALL EXISTING UTILITIES WHICH CONFLICT WITH PROPOSED IMPROVEMENTS SHOWN ON THE PLANS. THE CONTRACTOR SHALL EXPOSE EXISTING UTILITIES AT LOCATIONS OF POSSIBLE CONFLICTS PRIOR TO ANY CONSTRUCTION.

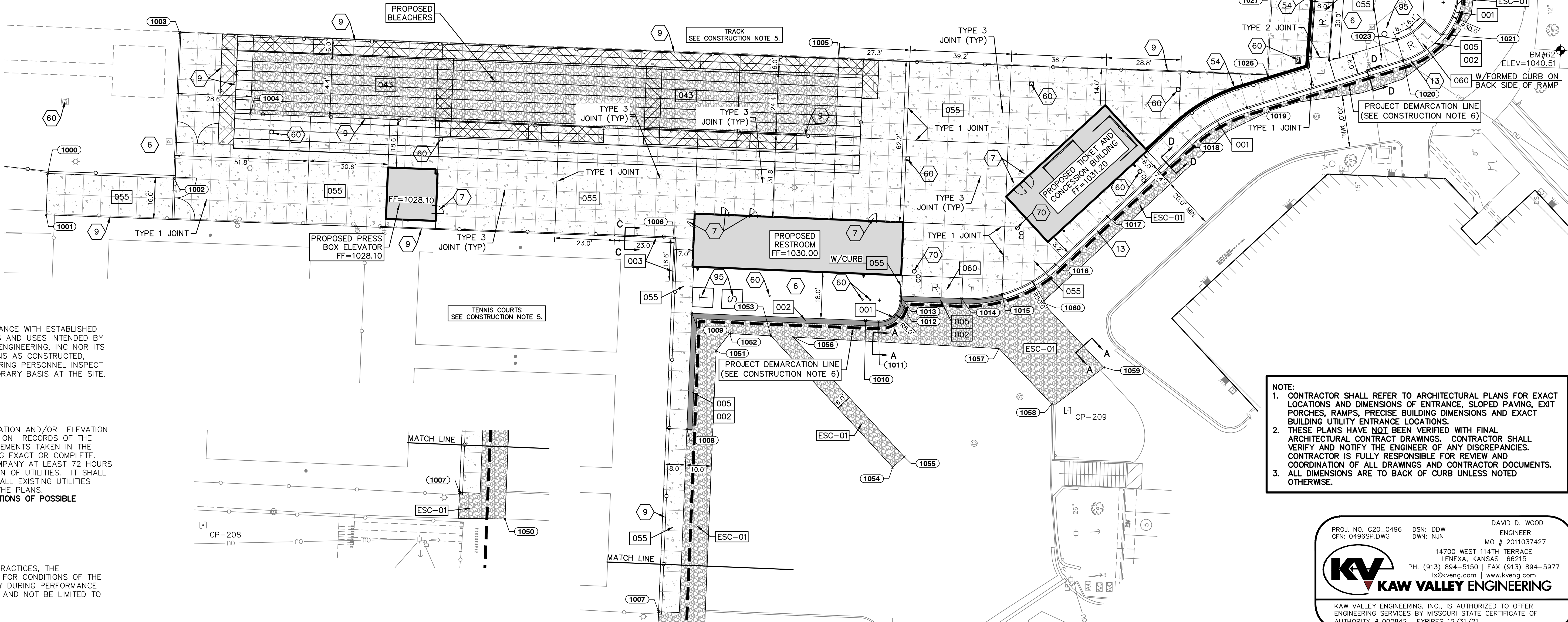
SAFETY NOTICE TO CONTRACTOR

IN ACCORDANCE WITH GENERALLY ACCEPTED CONSTRUCTION PRACTICES, THE CONTRACTOR WILL BE SOLELY AND COMPLETELY RESPONSIBLE FOR CONDITIONS OF THE JOB SITE, INCLUDING SAFETY OF ALL PERSONS AND PROPERTY DURING PERFORMANCE OF THE WORK. THIS REQUIREMENT WILL APPLY CONTINUOUSLY AND NOT BE LIMITED TO NORMAL WORKING HOURS.



COORDINATE TABLE		
NORTHING	EASTING	DESCRIPTION
1000	997866.29	2827157.98 SW
1001	997866.89	2827141.99 SW
1002	997617.66	2827156.15 SW
1003	997615.44	2827212.45 SW
1004	997588.06	2827180.98 SW
1005	997361.01	2827202.33 SW
1006	997424.60	2827132.94 SW
1007	997430.60	2826988.79 SW
1008	997419.66	2827059.22 SW
1009	997417.80	2827103.99 BC
1010	997350.74	2827101.20 BC
1011	997345.75	2827100.99 BC
1012	997337.42	2827108.65 BC
1013	997337.34	2827110.65 BC
1014	997313.61	2827109.66 BC
1015	997298.07	2827111.47 BC
1016	997277.56	2827122.94 BC
1017	997257.55	2827141.47 BC
1018	997226.13	2827170.57 BC
1019	997203.52	2827185.53 BC
1020	997143.29	2827201.76 BC
1021	997128.65	2827211.62 BC
1022	997135.17	2827217.07 BC
1023	997145.76	2827209.90 BC
1024	997123.01	2827222.69 BC
1025	997127.63	2827228.95 BC
1026	997195.56	2827196.02 SW
1027	997193.73	2827228.10 SW
1028	997172.65	2827298.09 SW
1029	997164.67	2827297.49 SW
1030	997393.86	2827504.33 SW

COORDINATE TABLE		
NORTHING	EASTING	DESCRIPTION
1031	997355.75	2827502.73 SW
1032	997328.13	2827494.60 SW
1033	997327.15	2827494.80 SW
1034	997325.11	2827485.01 SW
1035	997325.74	2827469.88 SW
1036	997291.33	2827502.25 SW
1037	997288.07	2827486.59 SW
1038	997276.83	2827484.29 SW
1039	997267.46	2827486.24 SW
1040	997233.78	2827448.79 SW
1041	997224.03	2827441.84 SW
1042	997219.68	2827447.02 SW
1043	997260.34	2827487.61 SW
1044	997257.31	2827500.96 SW
1045	997251.48	2827499.53 SW
1046	997250.14	2827505.41 BC
1047	997279.23	2827512.43 BC
1048	997275.77	2827527.99 BC
1049	997284.88	2827530.23 SW
1050	997413.01	2826978.58 SAWCUT
1051	997408.39	2827089.54 SAWCUT
1052	997403.18	2827096.17 SAWCUT
1053	997387.25	2827095.28 SAWCUT
1054	997340.26	2827044.54 SAWCUT
1055	997335.86	2827048.61 SAWCUT
1056	997378.63	2827094.79 SAWCUT
1057	997299.22	2827090.36 SAWCUT
1058	997278.96	2827068.92 SAWCUT
1059	997258.92	2827083.19 SAWCUT
1060	997282.55	2827108.18 SAWCUT



NOTE:

- CONTRACTOR SHALL REFER TO ARCHITECTURAL PLANS FOR EXACT LOCATIONS AND DIMENSIONS OF ENTRANCE, SLOPED PAVING, EXIT PORCHES, RAMPS, PRECISE BUILDING DIMENSIONS AND EXACT BUILDING UTILITY ENTRANCE LOCATIONS.
- THESE PLANS HAVE NOT BEEN VERIFIED WITH FINAL ARCHITECTURAL CONTRACT DRAWINGS. CONTRACTOR SHALL VERIFY AND NOTIFY THE ENGINEER OF ANY DISCREPANCIES. CONTRACTOR IS FULLY RESPONSIBLE FOR REVIEW AND COORDINATION OF ALL DRAWINGS AND CONTRACTOR DOCUMENTS.
- ALL DIMENSIONS ARE TO BACK OF CURB UNLESS NOTED OTHERWISE.

PROJ. NO. C20_0496 DSN: DDW DAVID D. WOOD
 CFN: 0496SP.DWG DWN: NJN ENGINEER
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 ENGINEERING SERVICES BY MISSOURI STATE CERTIFICATE OF
 AUTHORITY # 000842. EXPIRES 12/31/21

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 phoenix • san francisco
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**Lee's Summit R7 District
 Athletics Facilities**

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 Lee's Summit, MO 64063

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 4338 Bellevue
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DAVID D. WOOD
 LICENSED PROFESSIONAL ENGINEER
 MISSOURI LICENSE NUMBER PE-2011037427
 EXPIRES 12/31/21

Kaw Valley Engineering, Inc.
 Missouri Certificate of Authority: 000842
 David Wood Date: 09/28/2020
 Engineer License No. PE-2011037427

REVISIONS

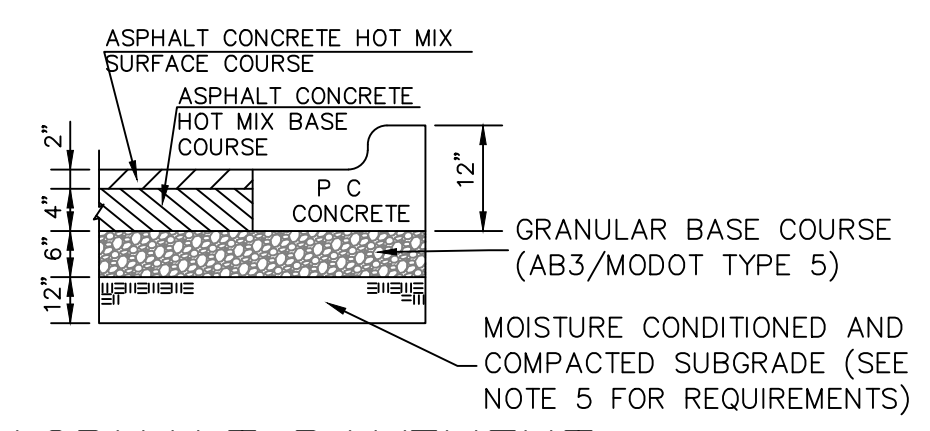
Number	DESCRIPTION	DATE

PROJECT NO: 0119-0100
 DATE: SEPTEMBER 28, 2020

SITE AND DIMENSION PLAN

H-C100

BID SET



LD ASPHALT PAVEMENT 040

- FLEXIBLE PAVEMENT SHALL BE IN ACCORDANCE WITH THE LATEST (FEBRUARY 2017) EDITION OF THE KANSAS CITY METROPOLITAN CHAPTER OF APWA SECTION 2200 AS AMENDED BY PROJECT SPECIFICATIONS.
ASPHALT SURFACE COURSE - APWA TYPE 3-01
ASPHALT BASE COURSE - APWA TYPE 2-01
- TYPE 3-01 SURFACE COURSE SHALL BE VIRGIN ASPHALT. RECYCLED MIXES MEETING APWA SPECIFICATIONS MAY BE CONSIDERED FOR BASE COURSE.
- PORTLAND CEMENT CONCRETE SHALL BE A KOMMB4K MIX AND SHALL MEET THE LATEST EDITION OF THE KANSAS CITY METROPOLITAN CHAPTER OF APWA SECTION 2200.
- HEAVY DUTY CONCRETE IS AN OPTIONAL PAVEMENT FOR DETAIL 041 HEAVY DUTY ASPHALT. WHEN PLANS SPECIFY DETAIL 042 NO ALTERNATES ARE ALLOWED.
- ON-SITE CLAY SOILS SHALL BE STABILIZED WITH 5% PORTLAND CEMENT AS OUTLINED IN THE PROJECT GEOTECHNICAL REPORT

PAVING DETAILS

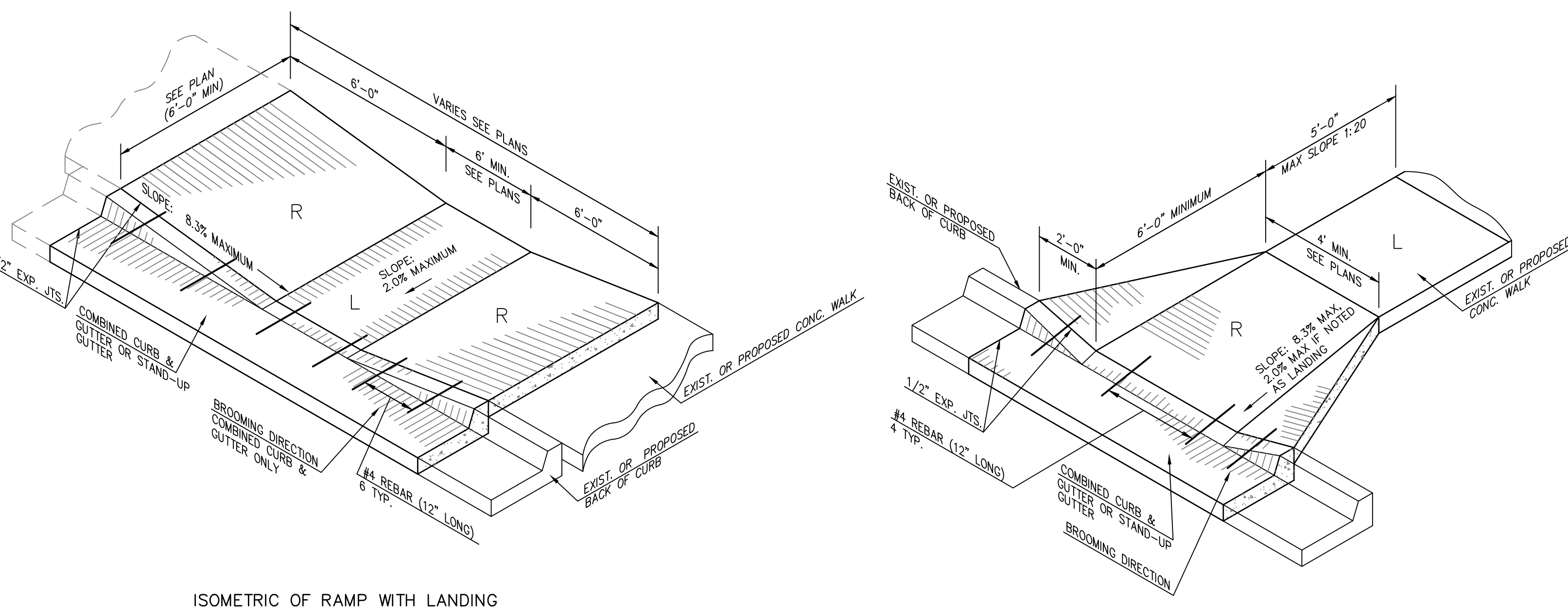
ASPHALT MILL AND OVERLAY NOTES:

- PAVING SHALL BE IN ACCORDANCE WITH APWA TECHNICAL SPECIFICATIONS SECTION 2200 AS AMENDED BELOW.
- MILLING FOR THE DRIVES AND PARKING LOTS SHALL BE COLD MILLED AS FOLLOWS:
- EQUIPMENT: MILLING OF PAVEMENTS SHALL BE COMPLETED BY USE OF A MILLING MACHINE CONFORMING TO THE FOLLOWING:
 - MACHINE: THE COLD MILLING MACHINE SHALL BE SELF-PROPELLED AND SHALL HAVE IN COMBINATION THE MEANS OF MILLING AND CUTTING, WITHOUT SOFTENING THE OLD SURFACE AND BLADING THE CUTTING INTO A SINGLE WINDROW, OR DEPOSITING THEM DIRECTLY INTO A TRUCK.
 - AIR POLLUTION: THE MACHINE SHALL BE EQUIPPED WITH A DUST SUPPRESSION SYSTEM INCLUDING WATER STORAGE TANKS AND HIGH PRESSURE SPRAY BARS.
 - OPERATING WIDTH: IT IS DESIRABLE THAT THE CUTTING WIDTH BE GREATER THAN 6 FEET (2 m). IN THE EVENT THE CUTTING WIDTH IS LESS THAN 6 FEET (2 m) CONTRACTOR IS RESPONSIBLE FOR ENSURING GRADE CONTROL AS NOTED ON PLANS.
 - CUTTING DRUM: THE CUTTING DRUM SHALL BE TOTALLY ENCLOSED TO PREVENT DISCHARGE OF ANY LOOSENED MATERIAL ADJACENT TO WORK AREAS.
 - CONSTRUCTION DETAILS
 - METHODS OF OPERATIONS FOR MILLING:
 - OPERATOR: THE MILLING MACHINE SHALL BE OPERATED BY AN EXPERIENCED AND CAPABLE OPERATOR.
 - UTILITIES: STREET SURFACES ADJACENT TO MANHOLE, WATER VALVES AND OTHER UTILITY EXTENSIONS, SHALL BE COMPLETELY REMOVED TO THE FULL DEPTH OF THE CUT SPECIFIED FOR THE STREET UNLESS OTHERWISE SPECIFIED BY THE ENGINEER.
 - MATERIAL DISPOSAL: THE MATERIAL WITHDRAWN BY THE MACHINE SHALL BE REMOVED FROM THE SURFACE OF THE PAVEMENT AND PROPERLY DISPOSED OF BY THE CONTRACTOR.
 - SURFACE CONDITIONS: THE DRUM LACING PATTERNS SHALL PRODUCE A SMOOTH SURFACE AFTER MILLING WITH GROOVE DEPTHS NOT TO EXCEED 1/4 INCH (0.64 cm) AND GROOVE SPACING NOT TO EXCEED 1 INCH (2.54 cm) UNLESS OTHERWISE APPROVED BY THE ENGINEER.
 - TYPES OF CUTS TO BE MADE BY MILLING:
 - LEVELING: SUFFICIENT PASSES SHALL BE MADE SUCH THAT ALL IRREGULARITIES OR HIGH SPOTS ARE ELIMINATED, AND THAT 100% OF THE SURFACE IS MILLED.
 - AVERAGE DEPTH: SUFFICIENT PASSES, OR CUTS, SHALL BE MADE IN ORDER TO REMOVE A SPECIFIED DEPTH OVER THE ENTIRE STREET SECTION. THESE DEPTHS WILL BE DESIGNATED ON THE PLANS.
 - CURB CUT: SUFFICIENT PASSES, OR CUTS, SHALL BE MADE IN ORDER TO REMOVE A SPECIFIED DEPTH AT THE CURB FOR A SPECIFIED WIDTH. THE DEPTH AT THE WIDTH FURTHEST FROM THE CURB IS 0. THESE DIMENSIONS WILL BE DESIGNATED ON THE PLANS.
 - CLEANUP: ALL LOOSE ASPHALT AND DEBRIS SHALL BE REMOVED FROM THE STREET SURFACE AND CURB AND GUTTER. ANY MATERIAL AND DEBRIS THAT ADHERES TO THE CURB AND GUTTER SHALL BE REMOVED.

CRACKS: AFTER SURFACE MILLING DETERIORATED (FATIGUE CRACKED OR RAVELED) BLOCK CRACKS AND TRANSVERSE CRACKS THAT HAVE A WIDTH GREATER THAN 1.5-INCHES SHALL BE MILLED OR MECHANICALLY ROUTED OUT TO A MINIMUM DEPTH OF 2-INCHES AND PATCHED WITH A HOT MIX ASPHALT PRIOR TO OVERLAY. UNDERDATERATED PAVEMENT CRACKS WITH WIDTHS BETWEEN 1.5-INCHES AND 0.25-INCHES WIDE SHALL BE BLOWN OUT WITH PRESSURIZED AIR OR CLEANED AND DRIED PRIOR TO FILLING WITH AN APPROVED CRACK SEALING MATERIAL SUCH AS CRAFCO ROADSAVER 514, 515, PARKING LOT SEALANT TYPE 1 OR APPROVED EQUAL.

AREAS OF THE PAVEMENT REQUIRING PATCHING WILL BE DESIGNATED ON THE PLANS OR MARKED BY THE ENGINEER AFTER COMPLETION OF MILLING OPERATIONS FOR THE SECTION OF PAVEMENT UNDER CONSTRUCTION. THE DETERIORATED PAVEMENT WILL BE REMOVED TO THE LIMITS DESIGNATED BY THE ENGINEER. THE SUBGRADE SHALL BE ADJUSTED TO PERMIT THE THICKNESS OF ASPHALT INDICATED ON THE PLANS. THE SUBGRADE SHALL CONSIST OF AB-3/MODOT TYPES AGGREGATE AND SHALL BE UNIFORMLY COMPACTED BY HAND TAMPING OR ROLLING. REFERENCE PAVING DETAILS FOR BITUMINOUS MIX FOR PATCHING. AT THE TIME OF PLACING ASPHALT THE EDGE OF THE AREA TO BE PATCHED WILL BE COATED WITH SS-1H EMULSION ASPHALT OR APPROVED EQUAL. THE ASPHALT IN THE PATCH SHALL BE PLACED IN TWO EQUAL LIFTS WITH EACH LIFT THOROUGHLY COMPACTED PRIOR TO PLACEMENT OF THE SUBSEQUENT LIFT.

- CONSTRUCTION OF THE OVERLAY WILL BE PERFORMED IN ACCORDANCE WITH APWA SPECIFICATIONS:
- MEASURED DENSITY OF THE COMPLETED OVERLAY SHALL HAVE A COMPACTED DENSITY OF 92% TO 97% OF THE DAILY THEORETICAL MAXIMUM SPECIFIC GRAVITY (GMM) OF THE MIX SUPPLIED TO THE PROJECT.
 - AREAS OF THE PAVEMENT SURFACE ON THE DRIVES AND PARKING LOTS THAT ARE SHOWN TO HAVE SEGREGATION UPON COMPLETION OF FINAL ROLLING SHALL RECEIVE AN ADDITIONAL SURFACE TREATMENT TO CLOSE THE SURFACE VOIDS. THE SURFACE TREATMENT SHALL CONSIST OF MANUFACTURED SAND COATED WITH SS-1H EMULSION WORKED INTO THE SURFACE VOIDS TO YIELD A UNIFORM APPEARING SURFACE.
 - SEE DETAIL 040/041 FOR SURFACE MIX.



ISOMETRIC OF RAMP WITH LANDING

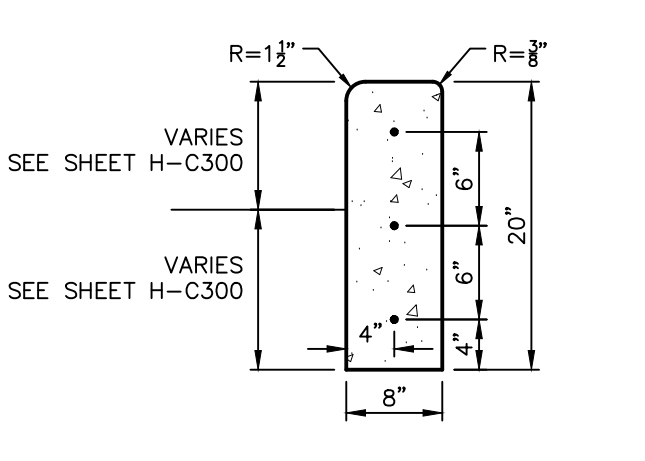
ISOMETRIC OF RAMP WITH PERPENDICULAR WALK SHOWN

CONCRETE AND SIDEWALK NOTES:

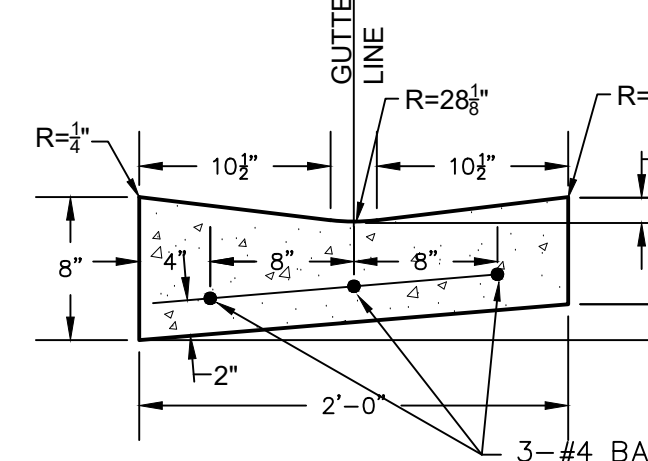
- CONCRETE SHALL HAVE A MINIMUM COMPRESSIVE STRENGTH OF 4000 PSI AND COMPLY WITH KOMMB SPECIFICATIONS. ALL CONCRETE SHALL BE PLACED IN ACCORDANCE WITH APWA SECTION 2200.
- REINFORCING STEEL SHALL BE GRADE 60 EPOXY COATED AND COMPLY WITH ASTM A615. ALL CUT ENDS OR DAMAGED AREAS SHALL BE FIELD REPAIRED WITH EPOXY COATING.
- SIDEWALKS TO BE BROOM FINISHED.
- SUBGRADE TO BE COMPACTED TO 90% MAXIMUM DRY DENSITY AS DETERMINED BY ASTM D698. MOISTURE CONTENT TO BE WITHIN A RANGE OF 2% BELOW TO 2% ABOVE OPTIMUM MOISTURE AS DEFINED BY ASTM D698.
- SIDEWALK JOINTS MAY BE SAWN UNLESS SHOWN OTHERWISE ON ARCHITECT/LANDSCAPE ARCHITECT PLANS.

SIDEWALK RAMPS 060

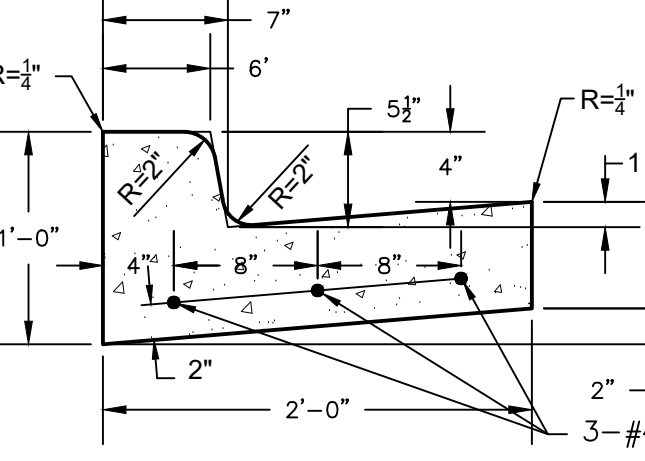
STRAIGHT CURB 003



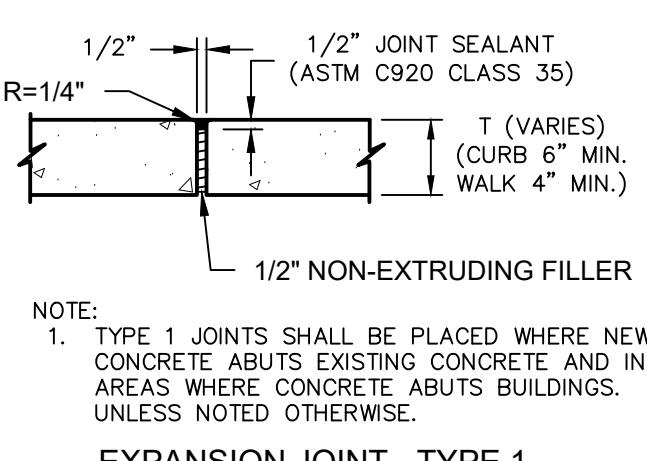
ZERO HEIGHT CURB 002



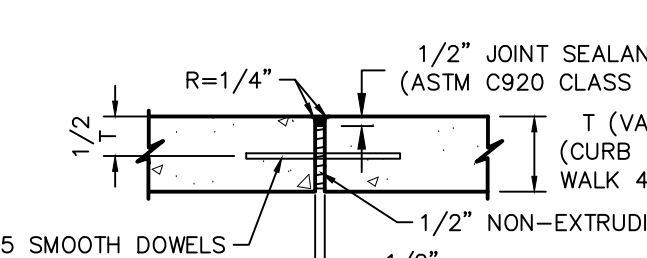
FULL HEIGHT CURB 001



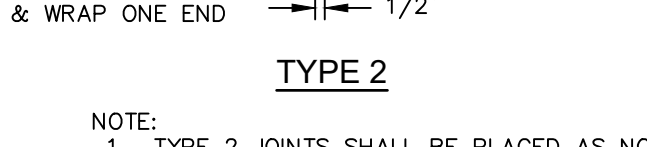
EXPANSION JOINT - TYPE 1



TYPE 2

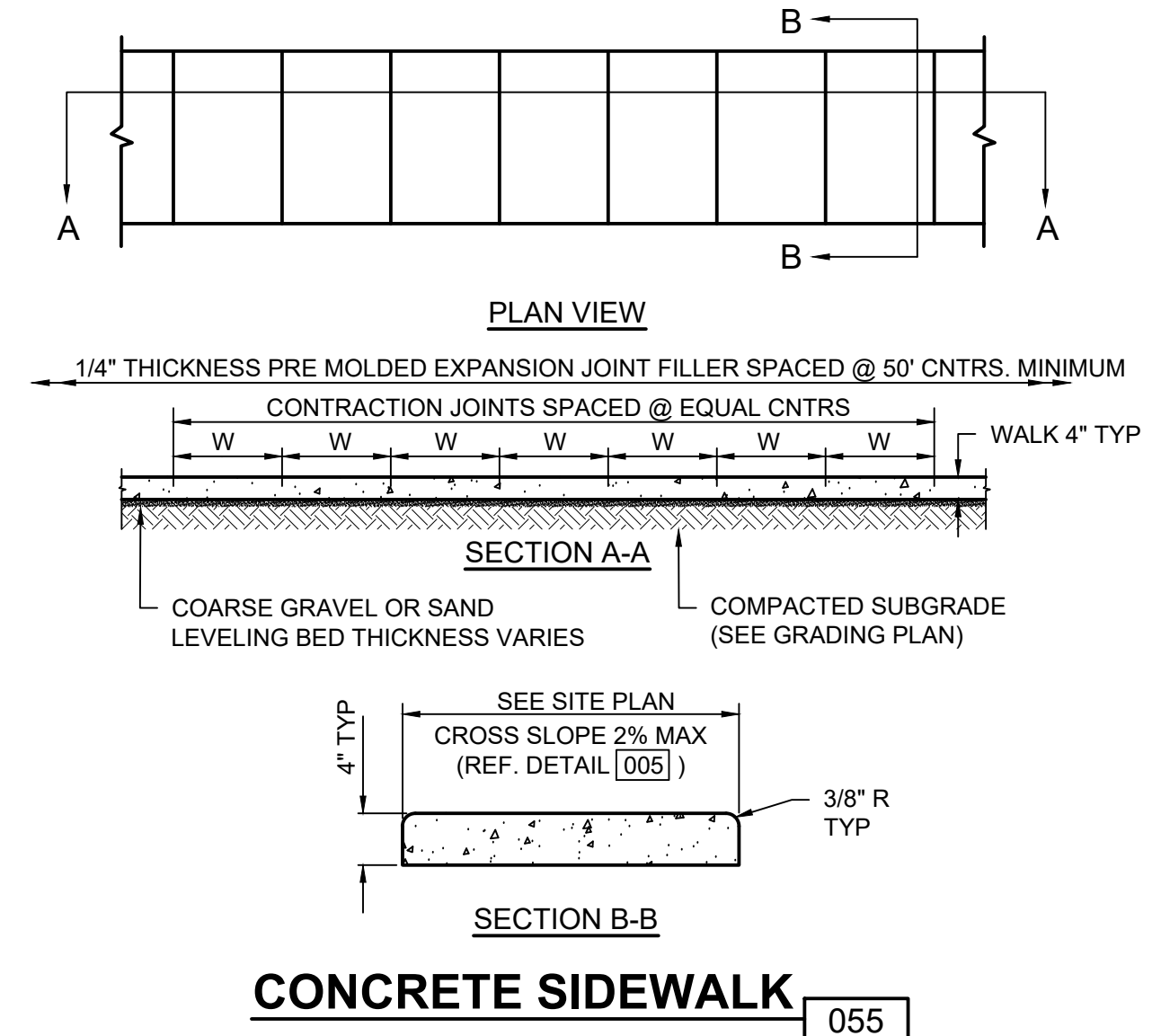


CONTRACTION JOINT - TYPE 3



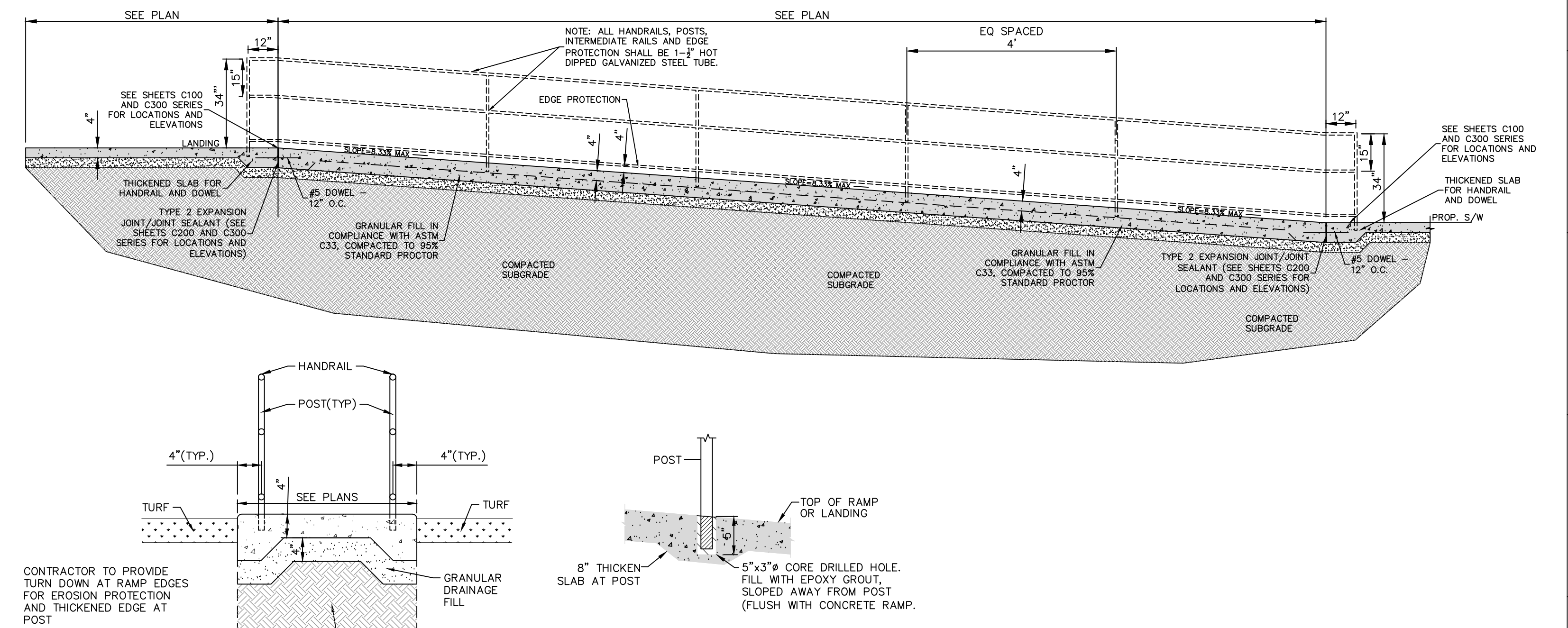
CURB & GUTTER N.T.S.

- CURB & GUTTER NOTES:**
- PREMOLDED EXPANSION JOINTS SHALL BE PLACED AT POINTS OF CURVATURE, CURB RETURNS, CURB INLETS AND AT 250' CENTERS. THE EXPANSION JOINTS SHALL BE DOWELED IN ACCORDANCE WITH THE SPECIFICATIONS. CONTRACTION JOINTS SHALL BE 2" DEEP AND PLACED AT 15' INTERVALS EQUALLY SPACED BETWEEN EXPANSION JOINTS.
 - ALL CONCRETE USED IN THIS WORK SHALL MEET THE LATEST EDITION OF THE KANSAS CITY METROPOLITAN CHAPTER OF THE AMERICAN PUBLIC WORKS ASSOCIATION. KOMMB4K CONCRETE SHALL BE USED THROUGHOUT.
 - ALL REINFORCING STEEL SHALL BE SUPPORTED ON FABRICATED STEEL BAR SUPPORTS @ 3"-10" MAXIMUM SPACING.
 - SEE SIDEWALK RAMP DETAILS FOR TYPICAL SIDEWALK RAMP CURB & GUTTER SECTIONS.
 - DETAILS AS SHOWN FOR CONCRETE AND ASPHALT PAVING. WHEN USED WITH CONCRETE PAVING POURED MONOLITHICALLY WITH CURB NO MODIFICATIONS ARE REQUIRED. WHEN CURB AND CONCRETE PAVING ARE TO BE POURED SEPARATELY #4 BARS, 24" LONG, ARE TO BE PROVIDED TO TIE CURB TOGETHER WITH CONCRETE PAVING.
 - ALL REINFORCING SHALL BE #4 GRADE 60 DEFORMED BARS AND COMPLY WITH ASTM A615.
 - CURBS TO BE CONSTRUCTED ON MINIMUM 6 INCHES OF COMPACTED WELL GRADED BASE ROCK.



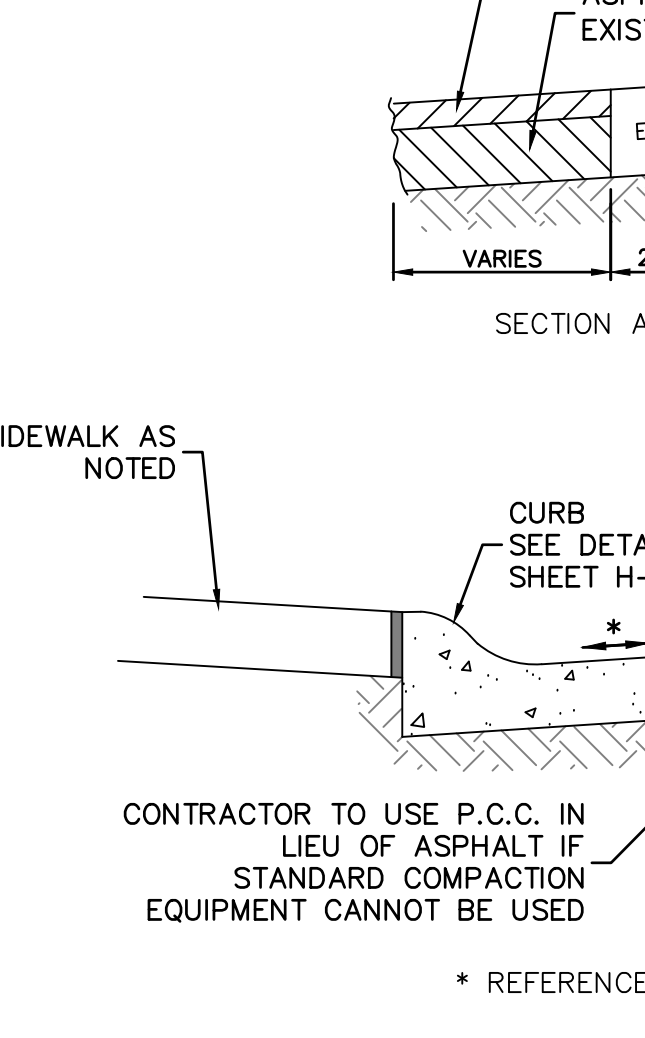
CONCRETE SIDEWALK 055

- NOTE:**
- CONTRACTOR SHALL BACKFILL SIDEWALKS WITH TOPSOIL AND SEED/SOD IN ACCORDANCE WITH LANDSCAPE PLAN AND PROJECT SPECIFICATIONS.

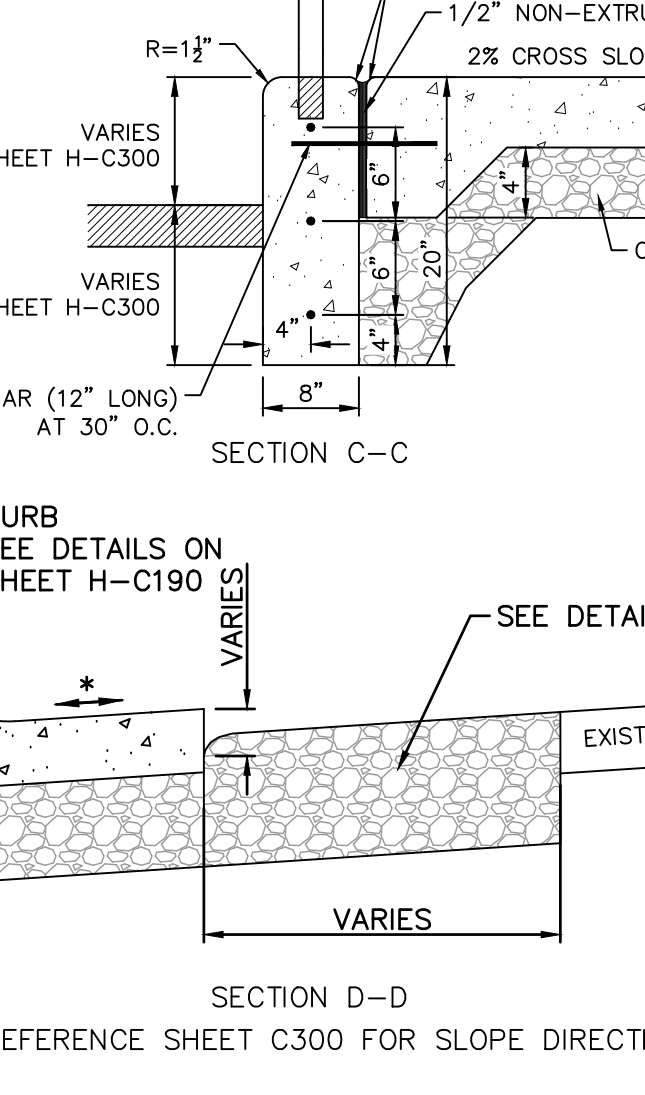


CONCRETE RAMP DETAIL 056

EDGE MILL AND OVERLAY 030



SECTION C-C



SECTION D-D



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Lee's Summit, MO 64086

architect:
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Kansas City, MO 64111
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Kaw Valley Engineering, Inc.
Missouri Certificate of Authority: 000842
David Wood Date: 09/28/2020
Engineer License No. PE-2011037427

REVISIONS

Number	DESCRIPTION	DATE
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PROJECT NO: 0119-0100
DATE: SEPTEMBER 28, 2020

SITE DETAILS
H-C190
BID SET

Lee's Summit R7 District
Athletics Facilities

Lee's Summit High School
400 SE Blue Parkway
Lee's Summit, MO 64063

owner:
Lee's Summit R7 School District
301 NE Tudor Road
Lee's Summit, MO 64086

architect:
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4200 Pennsylvania Avenue
Kansas City, MO 64111
816.931.6655 voice
www.goulddevans.com

structural engineer:
Bob D. Campbell & Company, Inc.
4338 Bellevue
Kansas City, MO 64111
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civil engineer:
Kaw Valley Engineering
14700 West 141st Terrace
Lenexa, KS 66215
913.485.0318

mechanical/electrical engineer:
Henderson Engineers
1801 Main St
Kansas City, MO 64108
816.663.8700

Notes for Concrete Washout:

- Concrete washout areas shall be installed prior to any concrete placement on site.
- Concrete washout areas shall include a fast drainage pad that is the amount of concrete to be placed on site. The slope leading to the pad shall be 2:1. The washout pad shall be placed towards the concrete washout area.
- Washout areas shall be installed at the corner points of all concrete washout areas.
- Signs shall be placed at the construction site entrance, washout area and elsewhere as necessary to clearly indicate the location(s) of the concrete washout areas to operators of concrete trucks and pumps rigs.
- A one-way impervious filter may be required along the bottom and side of the washout pad in rocky or gravelly soils.

Maintenance for Concrete Washout:

- Concrete washout materials shall be removed once the materials have filled the washout to approximately 75% full.
- Concrete washout areas shall be emptied as necessary to maintain capacity for washed concrete.
- Concrete washout areas, washed blocks of concrete and all other debris on the washout pad shall be conveyed from the site into a water-tight container and disposed of properly.
- Concrete washout areas shall remain in place until all concrete for the project is placed.

Notes for Construction Entrance:

- Asphalt paving on these areas, or curves on public roads, or resurfacing of disturbed areas.
- Remove all vegetation and other unsuitable material from the foundation area, grade, and create for positive drainage.
- If slope towards the public road exceeds 2%, construct a 6- to 8-inch high ridge with 3:1V side slopes across the foundation approximately 12 feet from the edge of the public road to divert runoff from it.
- Install flow under the entrance if needed to maintain drainage ditches along public roads.
- Place stone to dimensions and grade as shown on plans. Leave surface slopes for drainage.
- Divert all surface runoff and drainage from the entrance to a sediment control device.
- If conditions warrant, place geotextile fabric on the ground foundation to improve stability.

Maintenance for Construction Entrance:

- Restorage activities as needed to maintain function and integrity of installation. Top dress with clean aggregate as needed.

CONCRETE WASHOUT

AMERICAN PUBLIC WORKS ASSOCIATION
KANSAS CITY METRO CHAPTER
CONSTRUCTION ENTRANCE AND CONCRETE WASHOUT
STANDARD DRAWING NUMBER: ESC-01
ADOPTED: 10/24/2016

Notes for Installation in Channels:

- Erosion Control Blankets and TMs shall be laid in the direction of the flow, with the first course at the centerline of channel, where applicable. In order for the mat to be in contact with the soil, lay the mat loosely, avoiding stretching.
- ANCHOR FOLD:** The top of the mat should be folded under, buried, or secured with other approved anchors placed 6 inches apart. The top edge of the mat should be buried in a slot 6 inches wide x 6 inches deep, measured in the bottom of the slot, backfilled, and the mat folded over the top as shown in detail.
- SPRICE SEAM:** When splices are necessary, overlap and tuck 12 inches in direction of water flow. Stagger splice seams.
- CHECK SLOTS:** Establish check slots transverse to slope every 30 feet. The slots should be 6 inches wide x 6 inches deep. The mat shall be cut to a length 12 inches beyond the slot. The top of the check slot mat should be buried in a slot 6 inches wide x 6 inches deep, measured in the bottom of the slot, backfilled, and the mat folded over the top as shown in detail.
- EDGE ANCHORS:** Lay outside edge of mat into trench at top of the slope and anchor.
- TERMINUS:** The bottom edge of the mat shall be anchored.

Notes for Installation on Slopes:

- Erosion Control Blankets and TMs shall be laid in the direction of the slope, in order for blanket to be in contact with the soil, lay blanket loosely, avoiding stretching.
- ANCHOR SLOTS:** The top of the blanket should be "folded in" at the top of the slope and secured to place with anchors 6 inches apart. The slots should be 6 inches wide x 6 inches deep with the blanket anchored in the bottom of the slot, then backfilled, tamped and sealed.
- SPRICE SEAM:** When splices are necessary, overlap and tuck a minimum of 8 inches in direction of water flow. Stagger splice seams.
- TERMINAL FOLD:** The bottom edge of the blanket shall be turned under a minimum of 4 inches, then anchored in place with anchors 6 inches apart.

CONCRETE WASHOUT

AMERICAN PUBLIC WORKS ASSOCIATION
KANSAS CITY METRO CHAPTER
CONSTRUCTION ENTRANCE AND CONCRETE WASHOUT
STANDARD DRAWING NUMBER: ESC-01
ADOPTED: 10/24/2016

Notes:

- In order to contain water, the ends of the silt fence must be turned up (Figure A).
- Long perimeter runs of silt fence must be divided to 100' runs should be broken up into several smaller segments to minimize water concentrations (Figure A).
- Long slopes should be broken up with intermediate rows of silt fence to slow runoff velocities.
- Attach fabric to upstream side of post.
- Install posts a minimum of 2' into the ground.
- Trenching will only be allowed for small or difficult installation, where adequate positive control is reasonably used.

Maintenance:

- Remove and dispose of sediment deposits when the deposit approaches 1/2 the height of silt fence.
- Repair as necessary to maintain function and structure.

CONCRETE WASHOUT

AMERICAN PUBLIC WORKS ASSOCIATION
KANSAS CITY METRO CHAPTER
SILT FENCE
STANDARD DRAWING NUMBER: ESC-03
ADOPTED: 10/24/2016

Notes for Wattle and Biodegradable Log Slope Protection:

- The slope barriers shall be placed along contour lines, with a short section (about 10 feet) of the barrier. The maximum length of the slope barrier shall not exceed 250 feet, and the barrier ends must be to be staggered.
- Install wattles and biodegradable logs per manufacturer's instructions.
- Spacing of stakes per manufacturer's instructions with 4' max spacing. Length of stakes shall be a minimum of 2 times the diameter of the log with maximum of 24".

Notes for Mulch and Compost Filter Berms:

- The sediment control berm shall be placed unattached in a window of locations shown on the plans or as directed by the engineer.
- Parallel to the base of the slope, or around the perimeter of other affected areas, construct a 1 to 3 foot high by 2.5 to 3 foot wide berm (see Figure 1). For maximum water treatment ability or for steep slopes, construct a 1.5 to 2 foot high trapezoidal berm that is a minimum of 4 feet wide at the base (see Figure 2). In extreme conditions, or where specified by the engineer, a second berm shall be constructed at the top of the slope. Engineer will specify berm requirements.
- If berm is to be left as permanent or part of the permanent drainage, the sediment control berm may be seeded during application for permanent vegetation.
- Do not use compost or wood mulch berms in any runoff channel or concentrated flow areas.
- Wood mulch shall consist of tree and shrub debris resulting from clearing and grubbing and shall be ground by the mechanical means such as a chipper, hammermill, log grinder or other approved method. Mulch using sprigs with a maximum width of 2" and a maximum length of 10".

Maintenance for Mulch and Compost Filter Berms:

- Berm shall be reshaped and material added as necessary to maintain function and structure.
- Brushes in the berm shall be repaired promptly.

CONCRETE WASHOUT

AMERICAN PUBLIC WORKS ASSOCIATION
KANSAS CITY METRO CHAPTER
WATTLES/BIODEGRADABLE LOG AND MULCH/COMPOST FILTER BERM
STANDARD DRAWING NUMBER: ESC-04
ADOPTED: 10/24/2016

NOTES:

- CONTRACTOR TO COORDINATE ACTUAL LIMITS WITH CM'S SITE LOGISTICS PLAN. AT MINIMUM A 20'x50' SECTION SHALL BE PROVIDED AT ALL CONSTRUCTION ACCESS POINTS FORM EXISTING PAVING.
- CONTRACTOR SHALL VERIFY GRADE OF STAGING AND LAYDOWN PAD PRIOR TO PAVING. CONTRACTOR IS RESPONSIBLE TO PLACE ADDITIONAL CRUSHED STONE AS REQUIRED TO ACHIEVE SUBGRADE ELEVATIONS.

CONTRACTOR STAGING AND LAYDOWN [ESC-01]

CONCRETE WASHOUT

AMERICAN PUBLIC WORKS ASSOCIATION
KANSAS CITY METRO CHAPTER
CONTRACTOR STAGING AND LAYDOWN
STANDARD DRAWING NUMBER: ESC-01
ADOPTED: 10/24/2016

TEMPORARY SEEDING
APPLY SEED IN ACCORDANCE WITH APWA TECHNICAL SPECIFICATIONS SECTION 2153.5 A TRIHU D.

SEEDING AND SODDING:
DISTURBED AREAS ARE TO BE SEED OR SODDED (AS NOTED ON PLANS) WITH TALL TURF TYPE FESCUE. SEEDING AND SODDING SHALL BE COMPLETED IN ACCORDANCE WITH THE APWA TECHNICAL SPECIFICATION SECTIONS 2401 AND 2402, RESPECTIVELY. SOD SHALL BE WATERED IMMEDIATELY AND WATERED TWICE A DAY FOR A MINIMUM OF 21 DAYS.

PREPARATION OF THE SEED BED:
REMAINING AREAS SHALL BE SEEDDED, THE AREA TO BE SEEDDED SHALL BE THOROUGHLY TILLED TO A DEPTH OF AT LEAST THREE (3) INCHES BY DISING, HARROWING OR OTHER APPROVED METHODS UNTIL THE SOIL IS WELL PULVERIZED. AFTER COMPLETION OF THE TILLING OPERATION, THE SURFACE SHALL BE CLEARED OF ALL STONES, STUMPS, OR OTHER OBJECTS LARGER THAN 1-1/2 INCHES IN DIAMETER, AND OF ROOTS, WIRE, GRADE STAKES, AND OTHER OBJECTS THAT MIGHT HINDER MAINTENANCE OPERATIONS.

PLACEMENT OF SEED:
SEEDING MAY BE ACCOMPLISHED BY HYDRAULIC TYPE SEEDERS OR BROADCAST-TYPE SEEDERS. ALL SEED SOWN BY BROADCAST-TYPE SEEDERS SHALL BE "RAKED IN" OR OTHERWISE COVERED WITH SOIL TO A DEPTH OF AT LEAST ONE-QUARTER (1/4) INCH AND ROLLED TO OBTAIN A FIRM SEED BED. WATER SHALL BE APPLIED WHEN NECESSARY. SEEDDED AREAS SHALL BE COMPACTED AND MULCHED IN ACCORDANCE WITH APWA SPECIFICATION SECTION 2401.3 D & E.

SEEDED ON ALL SLOPES 4:1 OR STEEPER SHALL BE PROTECTED WITH A SHORT TERM DEGRADABLE EROSION CONTROL BLANKET CONSISTING OF SINGLE NET AND STRAW BLANKET. BLANKET SHALL BE SECURED TO SURFACE IN ACCORDANCE WITH MANUFACTURERS RECOMMENDATIONS.

CONTRACTOR IS RESPONSIBLE FOR ONGOING MAINTENANCE, PROTECTION AND REPAIR OF TEMPORARY AND PERMANENT SEED AREAS. REFERENCE APWA SECTION 2401.4. COORDINATE PLACEMENT OF INTERMEDIATE EROSION CONTROL MEASURES AS REQUIRED TO REDUCE CONCENTRATED FLOWS FROM RUNOFF.

CONCRETE WASHOUT

AMERICAN PUBLIC WORKS ASSOCIATION
KANSAS CITY METRO CHAPTER
TEMPORARY SEEDING AND SEEDING AND SODDING
STANDARD DRAWING NUMBER: ESC-05
ADOPTED: 10/24/2016

PROJECT NO: 0119-0100
DATE: SEPTEMBER 28, 2020

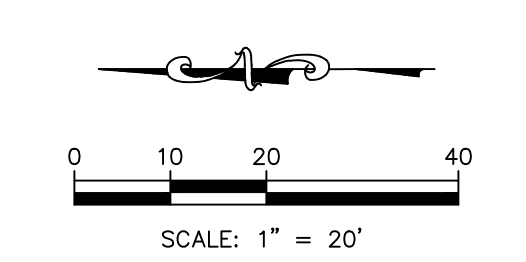
EROSION CONTROL
DETAILS

H-C195

BID SET

PROJ. NO. C20_0496
DWG. NO. 049602.DWG
DWN: NJW
ENGR: D.W. WOOD
MO # 2011037427
14700 WEST 114TH TERRACE
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www.kveng.com | www.kveng.com

KAW VALLEY ENGINEERING
KAW VALLEY ENGINEERING, INC. IS AUTHORIZED TO OFFER ENGINEERING SERVICES BY MISSOURI STATE CERTIFICATE OF AUTHORITY # 000842. EXPIRES 12/31/21



LEGEND:

- AIR CONDITIONER
WALL MOUNTED ELECTRICAL OUTLET
UNDERGROUND GAS
GAS METER
CONTROL POINT
BENCHMARK
GATE POST
CHAIN LINK FENCE
WOOD FENCE
BOLLARD
STREET TRAFFIC SIGN
PAINTED DIRECTIONAL ARROW
TURN LANE DIRECTION
HANDICAP SYMBOL
PARKING STALL COUNT
HANDICAP SIGN
HANDICAP RAMP
WHEEL STOP
UNDERGROUND FIBER OPTIC CABLE
UNDERGROUND FIBER OPTIC (FROM RECORDS)
TELEPHONE PEDESTAL
SANITARY SEWER MANHOLE
STORM SEWER MANHOLE
AREA INLET
CURB INLET
SANITARY SEWER CLEAN OUT
DOWN SPOUT
FLOOR DRAIN
FLARED END SECTION
SANITARY SEWER LINE
STORM SEWER LINE
CORRUGATED METAL PIPE
REINFORCED CONCRETE PIPE
VITRIFIED CLAY PIPE
UNDERGROUND ELECTRIC
OVERHEAD UTILITY LINE (# OF LINES)
PULL BOX
LIGHT POLE
UTILITY POLE
UTILITY POLE W/ LIGHT
UTILITY POLE W/ TRANSFORMER
GUY ANCHOR
WATER LINE PER RECORD
UNDERGROUND ELECTRIC PER RECORD
CONIFEROUS TREE
TREE LINE
DUCTILE IRON PIPE
HIGH DENSITY POLYETHYLENE
WALL MOUNTED LIGHT
WALL MOUNTED CAMERA
GAS VALVE
GAS RISER
GAS LINE SIGN
DOOR ELEVATION AT THRESHOLD
FINISH FLOOR ELEVATION
BUILDING HEIGHT/ELEVATION
BACK TO BACK OF CURB MEASUREMENT
EDGE TO EDGE OF ASPHALT
WATER LINE
WATER METER
WATER LINE GATE VALVE
FIRE HYDRANT
SPRINKLER CONTROL BOX
WATER MANHOLE
SPRINKLER VALVE
SIAMASE FIRE CONNECTOR
CANOPY SUPPORT
MAIL BOX
CONCRETE JOINT/CUT LINE
BUSH
DECIDUOUS TREE
TRASH ENCLOSURE
LANDSCAPING AREA
CONC
LOWEST WIRE HEIGHT
FLAG POLE
ELECTRIC METER
UNDERGROUND ELECTRIC PEDESTAL
SPEAKER BOX
BREAKER BOX
UNDERGROUND GAS PER RECORD
SANITARY SEWER LINE PER RECORD
STORM SEWER LINE PER RECORD
ASPHALT PAVING TO BE REMOVED
CONCRETE PAVING/SIDEWALKS TO BE REMOVED

DEMOLITION

- 1 TO REMAIN.
8 REMOVE BUILDING AND BUILDING EQUIPMENT. (COORDINATE WITH ARCHITECTURAL AND MEP PLAN)
8A REMOVE EXISTING BLEACHERS AND BLEACHER EQUIPMENT.
9 BOLLARD TO BE REMOVED.
10 FENCE AND FENCE POST TO BE REMOVED AS NECESSARY TO CONSTRUCT IMPROVEMENTS.
12 RETAINING WALL TO BE REMOVED.
15 SAW CUT LINE (FOR CONCRETE SAW CUT AT NEAREST CONTROL JOINT. FOR ASPHALT SAW CUT MINIMUM OF 6" FROM NEW CURB LINE). SEE SHEET H-C100 FOR APPROXIMATE LIMITS.
30 CONTRACTOR TO REMOVE CONCRETE CURBS TO CONSTRUCT IMPROVEMENTS. SEE SHEET C100 FOR LIMITS.
35 CONTRACTOR TO REMOVE MODULAR BLOCK RETAINING WALL AS REQUIRED TO CONSTRUCT IMPROVEMENTS.
40 CONTRACTOR TO REMOVE ASPHALT PAVING AS REQUIRED TO CONSTRUCT IMPROVEMENTS.
41 CONTRACTOR TO MILL ASPHALT SURFACE, 2' OUTSIDE ASPHALT REMOVAL. REFER TO SECTIONS A-A AND B-B ON SHEETS C190
55 CONTRACTOR TO REMOVE CONCRETE PAVING AND WALKS.
60 CONTRACTOR TO MODIFY, REMOVE AND/OR REROUTE STORM SEWER. REFER TO H-C600 SHEETS FOR ADDITIONAL INFORMATION.
70 CONTRACTOR TO MODIFY, REMOVE AND/OR REROUTE EXISTING SANITARY SEWER PRIOR TO CONSTRUCTING ADDITION. REFER TO C500 AND P SERIES SHEETS FOR ADDITIONAL INFORMATION.
82 CONTRACTOR TO DISCONNECT AND REMOVE EXISTING DOMESTIC SERVICE LINE ROUTED EXTERIOR TO THE BUILDING AS NECESSARY TO CONSTRUCT THE PROPOSED BUILDING. REMAINING PIPE MAY BE ABANDONED AS APPLICABLE. REFER TO H-C500 SHEETS AND MEP PLANS FOR ADDITIONAL INFORMATION.
90 REMOVE OVERHEAD ELECTRIC AND POLES. REFER TO SITE ELECTRICAL PLAN AS APPLICABLE.
91 REMOVE/REPLACE SITE LIGHTING AND ELECTRICAL FEEDS AS REQUIRED (ROUTING UNKNOWN). REFER TO SITE ELECTRICAL PLAN.

NOTE:

THIS EROSION CONTROL PLAN HAS BEEN PLACED IN THE CITY'S FILE FOR THIS PROJECT. THE PLAN APPEARS TO FULFILL THE MISSOURI DEPARTMENT OF NATURAL RESOURCES TECHNICAL CRITERIA AND THE CRITERIA FOR EROSION CONTROL AND REQUIREMENTS OF THE CITY. I UNDERSTAND THAT ADDITIONAL EROSION CONTROL MEASURES MAY BE NEEDED IF UNFORESEEN EROSION PROBLEMS ARISE OR IF THE SUBMITTED PLAN DOES NOT FUNCTION AS INTENDED. THE REQUIREMENTS OF THIS PLAN SHALL RUN WITH THE LAND AND BE THE OBLIGATION OF THE LAND OWNER UNTIL SUCH TIME AS THE PLAN IS PROPERLY COMPLETED, MODIFIED OR VOIDED.

DETAILS - SEE DETAIL SHEET H-C195 FOR THE FOLLOWING DETAILS

- ESC-01 CONSTRUCTION ENTRANCE AND CONCRETE WASHOUT
ESC-02 EROSION CONTROL BLANKETS AND TURF REINFORCEMENT MAT
ESC-03 SEDIMENTATION FENCE
ESC-04 WATTLES/BIOGRADABLE LOGS AND MULCH/COMPOST FILTER BERMS
ESC-07 AREA INLET PROTECTION

EROSION & PROPOSED IMPROVEMENTS LEGEND:

- 1218 EXISTING GROUND CONTOUR (1' INTERVALS)
1218 PROPOSED FINISHED GROUND CONTOUR (1' INTERVALS)
INLET PROTECTION (ESC-06 & ESC-07)
SEDIMENTATION FENCE (ESC-03)
LIMITS OF DISTURBANCE
WATTLE/BIOGRADABLE LOG (ESC-04)
GRAVEL FILTER BAGS
CONCRETE WASH AREA

CONSTRUCTION NOTES:

- 1. CONTRACTOR SHALL VERIFY SITE CONDITIONS PRIOR TO BIDDING. CONTRACTOR SHALL REMOVE ALL BUILDINGS, UTILITIES, PAVEMENT, FOUNDATIONS, FENCES, CURBS AND ALL OTHER STRUCTURES FROM WITHIN PROPERTY LINES EXCEPT AS DESIGNATED "TO REMAIN" OR "TO BE REMOVED BY OTHERS", IN ACCORDANCE WITH THE SPECIFICATIONS AND THE CITY OF LEE'S SUMMIT AND STATE REGULATIONS. SITE CONDITIONS SHOWN WERE AS OF MARCH 19, 2020.
2. ALL UTILITY PIPE LINES TO BE ABANDONED SHALL BE PLUGGED PER CITY AND STATE REGULATIONS.
3. DRIVES, PAVING AND OTHER STRUCTURES SHALL BE REMOVED AS NECESSARY TO CONSTRUCT IMPROVEMENTS SHOWN ON THESE PLANS. REMOVAL AND DISPOSAL SHALL BE IN CONFORMANCE WITH LOCAL, STATE AND FEDERAL REGULATIONS.
4. ALL EXISTING UTILITIES ETC. LOCATED WITHIN THE BOUNDARIES OF THE PROPOSED BUILDING SHALL BE COMPLETELY REMOVED TO 10 FEET OUTSIDE OF BUILDING LINE.
5. ALL HAZARDOUS ASBESTOS AND OTHER HAZARDOUS MATERIALS MUST BE IDENTIFIED AND REMOVED PRIOR TO ANY BUILDING DEMOLITION, IN STRICT CONFORMANCE WITH LOCAL, STATE AND FEDERAL REGULATIONS.

- 6. CONTRACTOR SHALL VERIFY THAT ALL UTILITIES TO EXISTING STRUCTURES HAVE BEEN DISCONNECTED PRIOR TO COMMENCING DEMOLITION.
7. EXISTING POWER LINES AND APPURTENANCES TO BE RELOCATED. COORDINATE WITH SITE ELECTRICAL PLAN.
8. ALL SLOPES THAT ARE 4:1 OR STEEPER MUST BE FULLY OR PERMANENTLY STABILIZED WITHIN TWO WEEKS OF FINAL GRADING.
9. PROVIDE CONSTRUCTION FENCING AS NOTED ON CM'S SITE LOGISTIC PLAN.
10. WORK ON WEST SIDE OF THE PROJECT DEMARCATION LINE TO BE SCHEDULED TO MAINTAIN ACCESS TO RECEIVING DOOR AND TRASH PICK UP. PAVING REMOVAL MAY NEED TO BE STAGED. COORDINATE WITH LEE'S SUMMIT SCHOOL DISTRICT AND JE DUNN'S CONSTRUCTION SCHEDULE.
11. CONTRACTOR TO PROVIDE CONCRETE WASHOUT AND CONSTRUCTION ENTRANCE FOR PROJECT. COORDINATE FINAL LOCATION INFIELD WITH SCHOOL DISTRICT TO AVOID DISRUPTION TO PEDESTRIAN TRACK ACCESS (SEE CONSTRUCTION NOTE 5 ON SHEET H-C100).

WARRANTY / DISCLAIMER

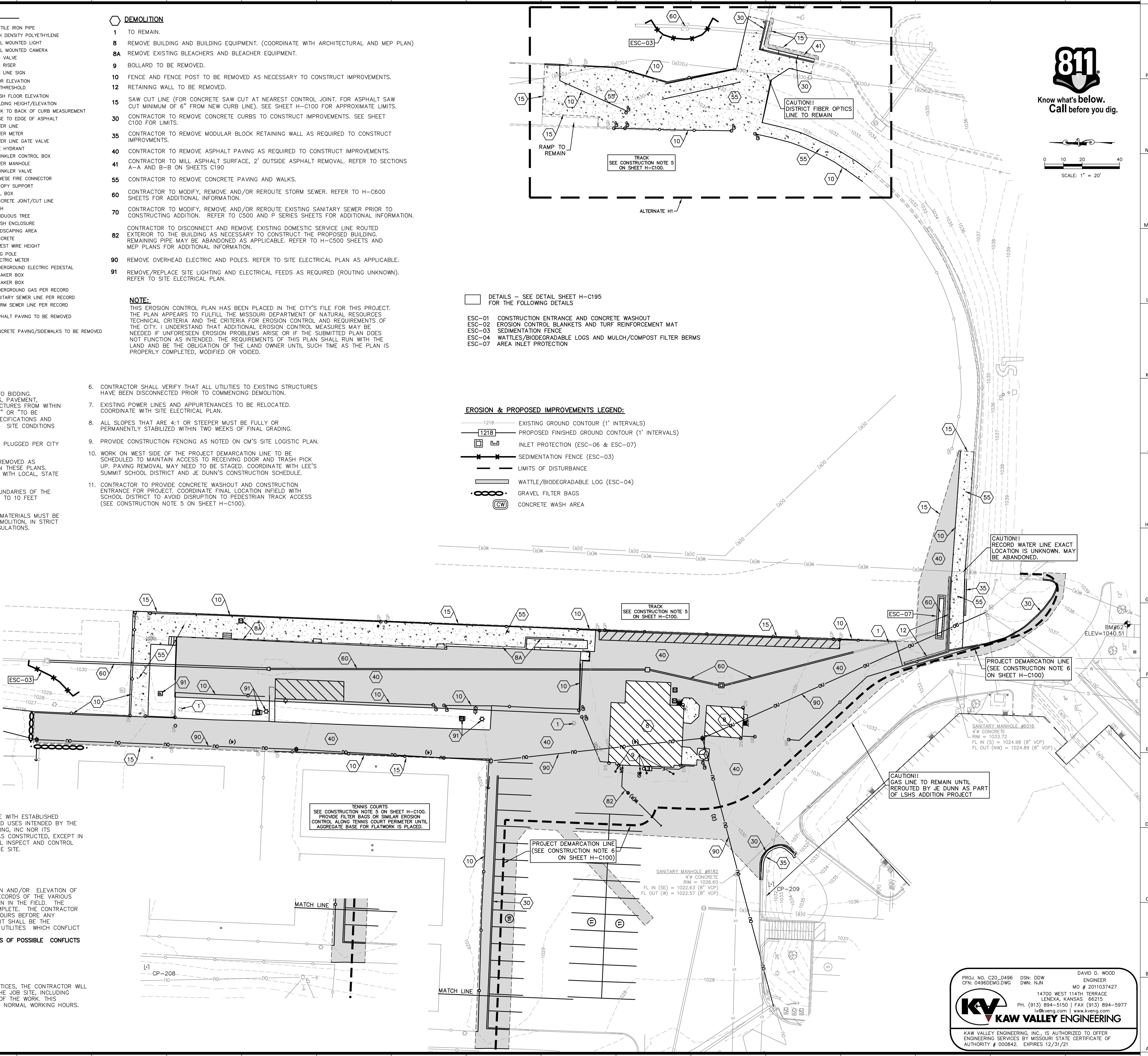
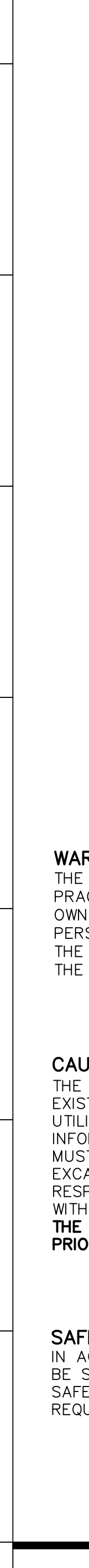
THE DESIGNS REPRESENTED IN THESE PLANS ARE IN ACCORDANCE WITH ESTABLISHED PRACTICES OF CIVIL ENGINEERING FOR THE DESIGN FUNCTIONS AND USES INTENDED BY THE OWNER AT THIS TIME. HOWEVER, NEITHER KAW VALLEY ENGINEERING, INC NOR ITS PERSONNEL CAN OR DO WARRANTY THESE DESIGNS OR PLANS AS CONSTRUCTED, EXCEPT IN THE SPECIFIC CASES WHERE KAW VALLEY ENGINEERING PERSONNEL INSPECT AND CONTROL THE PHYSICAL CONSTRUCTION ON A CONTEMPORARY BASIS AT THE SITE.

CAUTION - NOTICE TO CONTRACTOR

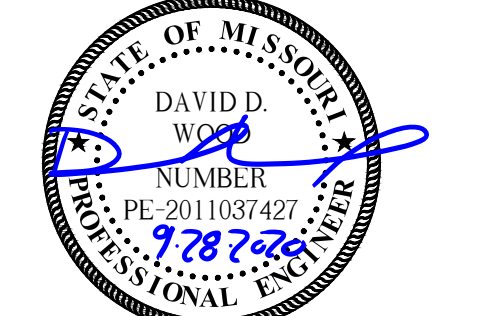
THE CONTRACTOR IS SPECIFICALLY CAUTIONED THAT THE LOCATION AND/OR ELEVATION OF EXISTING UTILITIES AS SHOWN ON THESE PLANS IS BASED ON RECORDS OF THE VARIOUS UTILITY COMPANIES AND, WHERE POSSIBLE, MEASUREMENTS TAKEN IN THE FIELD. THE INFORMATION IS NOT TO BE RELIED ON AS BEING EXACT OR COMPLETE. THE CONTRACTOR MUST CALL THE APPROPRIATE UTILITY COMPANY AT LEAST 72 HOURS BEFORE ANY EXCAVATION TO REQUEST EXACT FIELD LOCATION OF UTILITIES. IT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR TO RELOCATE ALL EXISTING UTILITIES WHICH CONFLICT WITH PROPOSED IMPROVEMENTS SHOWN ON THE PLANS. THE CONTRACTOR SHALL EXPOSE EXISTING UTILITIES AT LOCATIONS OF POSSIBLE CONFLICTS PRIOR TO ANY CONSTRUCTION.

SAFETY NOTICE TO CONTRACTOR

IN ACCORDANCE WITH GENERALLY ACCEPTED CONSTRUCTION PRACTICES, THE CONTRACTOR WILL BE SOLELY AND COMPLETELY RESPONSIBLE FOR CONDITIONS OF THE JOB SITE, INCLUDING SAFETY OF ALL PERSONS AND PROPERTY DURING PERFORMANCE OF THE WORK. THIS REQUIREMENT WILL APPLY CONTINUOUSLY AND NOT BE LIMITED TO NORMAL WORKING HOURS.



UNLESS A PROFESSIONAL SEAL WITH SIGNATURE AND DATE IS AFFIXED, THIS DOCUMENT IS PRELIMINARY AND IS NOT INTENDED FOR CONSTRUCTION, RECORDING PURPOSES OR IMPLEMENTATION.



Kaw Valley Engineering, Inc.
Missouri Certificate of Authority: 000842
David Wood Date: 09/28/2020
Engineer License No. PE-2011037427

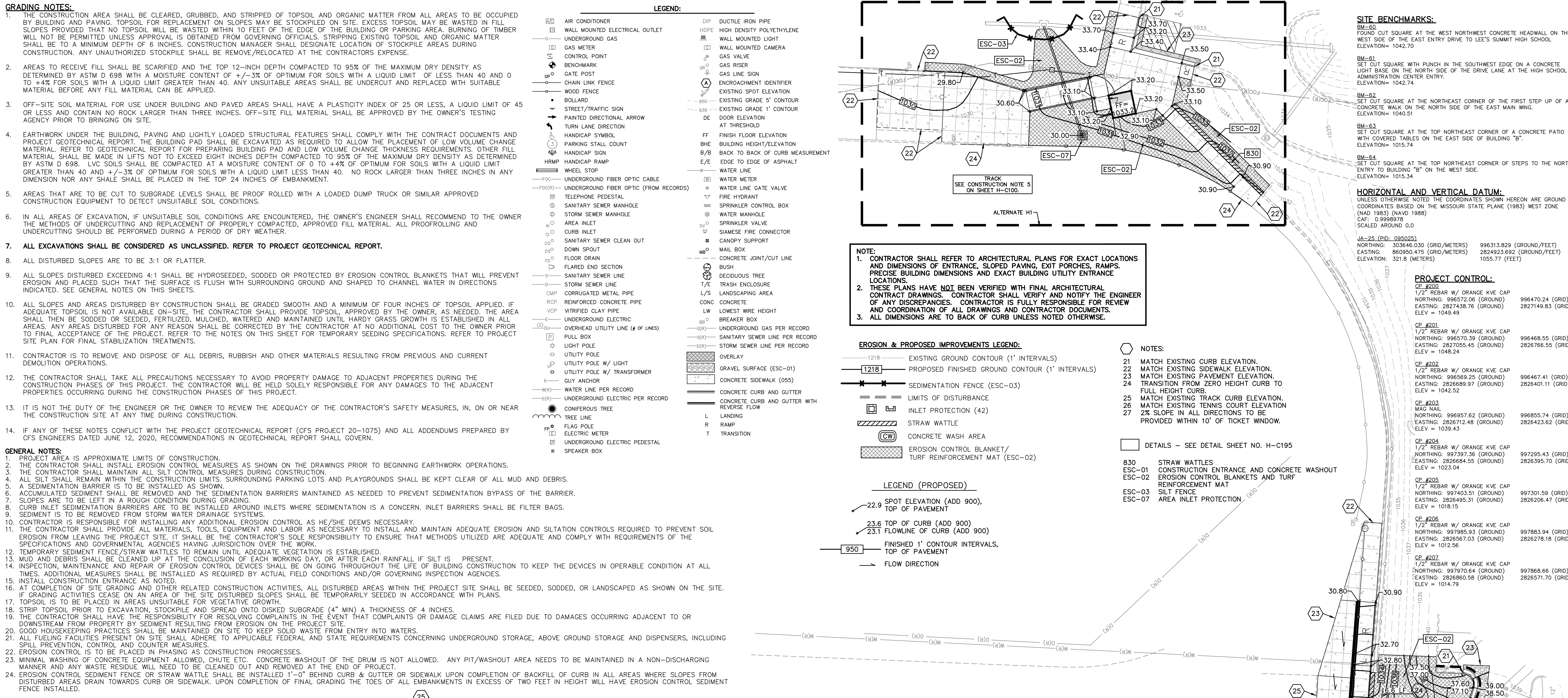
REVISIONS

Table with columns: Number, Description, Date

PROJECT NO: 0119-0100
DATE: SEPTEMBER 28, 2020

Kaw Valley Engineering logo and contact information: PROJ. NO. C20_0496, DSN: DDW, DWN: NJN, ENGINEER: DAVID D. WOOD, MO # 2011037427, 14700 WEST 114TH TERRACE, LENEXA, KANSAS 66215, PH. (913) 894-5150, FAX (913) 894-5977, www.kveng.com

DEMOLITION AND EROSION CONTROL PLAN H-C200 BID SET



GRADING NOTES:

- THE CONSTRUCTION AREA SHALL BE CLEARED, GRUBBED, AND STRIPPED OF TOPSOIL AND ORGANIC MATTER FROM ALL AREAS TO BE OCCUPIED BY BUILDING AND PAVING. TOPSOIL FOR REPLACEMENT ON SLOPES MAY BE STOCKPILED ON SITE. EXCESS TOPSOIL MAY BE WASTED IN FILL SLOPES PROVIDED THAT NO TOPSOIL WILL BE WASTED WITHIN 10 FEET OF THE EDGE OF THE BUILDING OR PARKING AREA. BURNING OF TOPSOIL WILL NOT BE PERMITTED UNLESS APPROVAL IS OBTAINED FROM GOVERNING OFFICIALS. STRIPPING EXISTING TOPSOIL AND ORGANIC MATTER SHALL BE TO A MINIMUM OF 4 INCHES. CONSTRUCTION MANAGER SHALL DESIGNATE LOCATION OF STOCKPILE AREAS DURING CONSTRUCTION. ANY UNAUTHORIZED STOCKPILE SHALL BE REMOVE/RELOCATED AT THE CONTRACTORS EXPENSE.
- AREAS TO RECEIVE FILL SHALL BE SCARIFIED AND THE TOP 12-INCH DEPTH COMPACTED TO 95% OF THE MAXIMUM DRY DENSITY AS DETERMINED BY ASTM D 698 WITH A MOISTURE CONTENT OF +/- 3% OF OPTIMUM FOR SOILS WITH A LIQUID LIMIT OF LESS THAN 40 AND 0 TO 4% FOR SOILS WITH LIQUID LIMIT GREATER THAN 40. ANY UNSUITABLE AREAS SHALL BE UNDERCUT AND REPLACED WITH SUITABLE MATERIAL BEFORE ANY FILL MATERIAL CAN BE APPLIED.
- OFF-SITE SOIL MATERIAL FOR USE UNDER BUILDING AND PAVED AREAS SHALL HAVE A PLASTICITY INDEX OF 25 OR LESS, A LIQUID LIMIT OF 45 OR LESS AND CONTAIN NO ROCK LARGER THAN THREE INCHES. OFF-SITE FILL MATERIAL SHALL BE APPROVED BY THE OWNER'S TESTING AGENCY PRIOR TO BRINGING ON SITE.
- EARTHWORK UNDER THE BUILDING, PAVING AND LIGHTLY LOADED STRUCTURAL FEATURES SHALL COMPLY WITH THE CONTRACT DOCUMENTS AND PROJECT GEOTECHNICAL REPORT. THE BUILDING PAD SHALL BE EXCAVATED AS REQUIRED TO ALLOW THE PLACEMENT OF LOW VOLUME CHANGE MATERIAL. REFER TO GEOTECHNICAL REPORT FOR PREPARING BUILDING PAD AND LOW VOLUME CHANGE THICKNESS REQUIREMENTS. OTHER FILL MATERIAL SHALL BE MADE IN LIFTS NOT TO EXCEED EIGHT INCHES DEPTH COMPACTED TO 95% OF THE MAXIMUM DRY DENSITY AS DETERMINED BY ASTM D 698. SILTY SOILS SHALL BE COMPACTED AT A MOISTURE CONTENT OF 0 TO 4% OF OPTIMUM FOR SOILS WITH A LIQUID LIMIT GREATER THAN 40 AND +/- 3% OF OPTIMUM FOR SOILS WITH A LIQUID LIMIT LESS THAN 40. NO ROCK LARGER THAN THREE INCHES IN ANY DIMENSION NOR ANY SHALE SHALL BE PLACED IN THE TOP 24 INCHES OF EMBANKMENT.
- AREAS THAT ARE TO BE CUT TO SUBGRADE LEVELS SHALL BE PROOF ROLLED WITH A LOADED DUMP TRUCK OR SIMILAR APPROVED CONSTRUCTION EQUIPMENT TO DETECT UNSUITABLE SOIL CONDITIONS.
- IN ALL AREAS OF EXCAVATION, IF UNSUITABLE SOIL CONDITIONS ARE ENCOUNTERED, THE OWNER'S ENGINEER SHALL RECOMMEND TO THE OWNER THE METHODS OF UNDERCUTTING AND REPLACEMENT OF PROPERLY COMPACTED, APPROVED FILL MATERIAL. ALL PROOFROLLING AND UNDERCUTTING SHOULD BE PERFORMED DURING A PERIOD OF DRY WEATHER.
- ALL EXCAVATIONS SHALL BE CONSIDERED AS UNCLASSIFIED. REFER TO PROJECT GEOTECHNICAL REPORT.
- ALL DISTURBED SLOPES ARE TO BE 3:1 OR FLATTER.
- ALL SLOPES DISTURBED EXCEEDING 4:1 SHALL BE HYDROSEED, SODDED OR PROTECTED BY EROSION CONTROL BLANKETS THAT WILL PREVENT EROSION AND PLACED ON THE SURFACE IS FLUSH WITH SURROUNDING GROUND AND SHAPED TO CHANNEL WATER IN DIRECTIONS INDICATED. SEE GENERAL NOTES ON THIS SHEETS.
- ALL SLOPES AND AREAS DISTURBED BY CONSTRUCTION SHALL BE GRADED SMOOTH AND A MINIMUM OF FOUR INCHES OF TOPSOIL APPLIED. IF ADEQUATE TOPSOIL IS NOT AVAILABLE ON-SITE, THE CONTRACTOR SHALL PROVIDE TOPSOIL, APPROVED BY THE OWNER, AS NEEDED. THE AREA SHALL THEN BE SODDED OR SEED, FERTILIZED, MULCHED, WATERED AND MAINTAINED UNTIL HARDY GRASS GROWTH IS ESTABLISHED IN ALL AREAS. ANY AREAS DISTURBED FOR ANY REASON SHALL BE CORRECTED BY THE CONTRACTOR AT NO ADDITIONAL COST TO THE OWNER PRIOR TO FINAL ACCEPTANCE OF THE PROJECT. REFER TO THE NOTES ON THIS SHEET FOR TEMPORARY SEEDING SPECIFICATIONS. REFER TO PROJECT SITE PLAN FOR FINAL STABILIZATION TREATMENTS.
- CONTRACTOR IS TO REMOVE AND DISPOSE OF ALL DEBRIS, RUBBISH AND OTHER MATERIALS RESULTING FROM PREVIOUS AND CURRENT DEMOLITION OPERATIONS.
- THE CONTRACTOR SHALL TAKE ALL PRECAUTIONS NECESSARY TO AVOID PROPERTY DAMAGE TO ADJACENT PROPERTIES DURING THE CONSTRUCTION PHASES OF THIS PROJECT. THE CONTRACTOR WILL BE HELD SOLELY RESPONSIBLE FOR ANY DAMAGES TO THE ADJACENT PROPERTIES OCCURRING DURING THE CONSTRUCTION PHASES OF THIS PROJECT.
- IT IS NOT THE DUTY OF THE ENGINEER OR THE OWNER TO REVIEW THE ADEQUACY OF THE CONTRACTOR'S SAFETY MEASURES, IN, ON OR NEAR THE CONSTRUCTION SITE AT ANY TIME DURING CONSTRUCTION.
- IF ANY OF THESE NOTES CONFLICT WITH THE PROJECT GEOTECHNICAL REPORT (CFS PROJECT 20-1075) AND ALL ADDENDUMS PREPARED BY CFS ENGINEERS DATED JUNE 12, 2020, RECOMMENDATIONS IN GEOTECHNICAL REPORT SHALL GOVERN.

GENERAL NOTES:

- PROJECT AREA IS APPROXIMATE LIMITS OF CONSTRUCTION.
- THE CONTRACTOR SHALL INSTALL EROSION CONTROL MEASURES AS SHOWN ON THE DRAWINGS PRIOR TO BEGINNING EARTHWORK OPERATIONS.
- THE CONTRACTOR SHALL MAINTAIN ALL SILT CONTROL MEASURES THROUGHOUT CONSTRUCTION.
- ALL SILT SHALL REMAIN WITHIN THE CONSTRUCTION LIMITS. SURROUNDING PARKING LOTS AND PLAYGROUNDS SHALL BE KEPT CLEAR OF ALL MUD AND DEBRIS.
- A SEDIMENTATION BARRIER IS TO BE INSTALLED AS SHOWN.
- ACCUMULATED SEDIMENT SHALL BE REMOVED AND THE SEDIMENTATION BARRIERS MAINTAINED AS NEEDED TO PREVENT SEDIMENTATION BYPASS OF THE BARRIER.
- SLOPES ARE TO BE LEFT IN A ROUGH CONDITION DURING GRADING.
- CURB INLET SEDIMENTATION BARRIERS ARE TO BE INSTALLED AROUND INLETS WHERE SEDIMENTATION IS A CONCERN. INLET BARRIERS SHALL BE FILTER BAGS.
- SEDIMENT IS TO BE REMOVED FROM STORM WATER DRAINAGE SYSTEMS.
- CONTRACTOR IS TO BE RESPONSIBLE FOR INSTALLING ANY ADDITIONAL EROSION CONTROL AS HE/SHE DEEMS NECESSARY.
- THE CONTRACTOR SHALL PROVIDE ALL MATERIALS, TOOLS, EQUIPMENT AND LABOR AS NECESSARY TO INSTALL AND MAINTAIN ADEQUATE EROSION AND SILTATION CONTROLS REQUIRED TO PREVENT SOIL EROSION FROM LEAVING THE PROJECT SITE. IT SHALL BE THE CONTRACTOR'S SOLE RESPONSIBILITY TO ENSURE THAT METHODS UTILIZED ARE ADEQUATE AND COMPLY WITH REQUIREMENTS OF THE SPECIFICATIONS AND GOVERNMENTAL AGENCIES HAVING JURISDICTION OVER THE WORK.
- TEMPORARY SEDIMENT FENCE/STRAW WATTLES TO REMAIN UNTIL ADEQUATE VEGETATION IS ESTABLISHED.
- MUD AND DEBRIS SHALL BE CLEANED UP AT THE CONCLUSION OF EACH WORKING DAY, OR AFTER EACH RAINFALL IF SILT IS PRESENT.
- INSPECTION, MAINTENANCE AND REPAIR OF EROSION CONTROL DEVICES SHALL BE ON GOING THROUGHOUT THE LIFE OF BUILDING CONSTRUCTION TO KEEP THE DEVICES IN OPERABLE CONDITION AT ALL TIMES. ADDITIONAL MEASURES SHALL BE INSTALLED AS REQUIRED BY ACTUAL FIELD CONDITIONS AND/OR GOVERNING INSPECTION AGENCIES.
- INSTALL CONSTRUCTION ENTRANCE AS NOTED.
- AT COMPLETION OF SITE GRADING AND OTHER RELATED CONSTRUCTION ACTIVITIES, ALL DISTURBED AREAS WITHIN THE PROJECT SITE SHALL BE SEED, SODDED, OR LANDSCAPED AS SHOWN ON THE SITE.
- IF GRADING ACTIVITIES CEASE ON AN AREA OF THE SITE DISTURBED SLOPES SHALL BE TEMPORARILY SEEDED IN ACCORDANCE WITH PLANS.
- TOPSOIL IS TO BE PLACED IN AREAS UNSUITABLE FOR VEGETATIVE PROTECTION.
- STRIP TOPSOIL PRIOR TO EXCAVATION, STOCKPILE AND SPREAD ONTO DISKED SUBGRADE (4" MIN) A THICKNESS OF 4 INCHES.
- THE CONTRACTOR SHALL HAVE THE RESPONSIBILITY FOR RESOLVING COMPLAINTS IN THE EVENT THAT COMPLAINTS OR DAMAGE CLAIMS ARE FILED DUE TO DAMAGES OCCURRING ADJACENT TO OR DOWNSTREAM FROM PROPERTY BY SEDIMENT RESULTING FROM EROSION ON THE PROJECT SITE.
- GOOD HOUSEKEEPING PRACTICES SHALL BE MAINTAINED ON SITE TO KEEP SOLID WASTE FROM ENTRY INTO WATERS.
- ALL FUELING FACILITIES PRESENT ON SITE SHALL ADHERE TO APPLICABLE FEDERAL AND STATE REQUIREMENTS CONCERNING UNDERGROUND STORAGE, ABOVE GROUND STORAGE AND DISPENSERS, INCLUDING SPILL PREVENTION, CONTROL AND COUNTER MEASURES.
- EROSION CONTROL IS TO BE PLACED IN PHASES AS CONSTRUCTION PROGRESSES.
- MINIMAL WASHING OF CONCRETE EQUIPMENT ALLOWED, CHUTE ETC. CONCRETE WASHOUT OF THE DRUM IS NOT ALLOWED. ANY PIT/WASHOUT AREA NEEDS TO BE MAINTAINED IN A NON-DISCHARGING MANNER AND ANY WASTE RESIDUE WILL NEED TO BE CLEANED OUT AND REMOVED AT THE END OF PROJECT.
- EROSION CONTROL SEDIMENT FENCE OR STRAW WATTLE SHALL BE INSTALLED 1'-0" BEHIND CURB & GUTTER OR SIDEWALK UPON COMPLETION OF BACKFILL OF CURB IN ALL AREAS WHERE SLOPES FROM DISTURBED AREAS DRAIN TOWARDS CURB OR SIDEWALK. UPON COMPLETION OF FINAL GRADING THE TOES OF ALL EMBANKMENTS IN EXCESS OF TWO FEET IN HEIGHT WILL HAVE EROSION CONTROL SEDIMENT FENCE INSTALLED.

EROSION AND SEDIMENT CONTROL INSPECTION PROCEDURES

THE FOLLOWING PROCEDURES WILL BE USED TO MAINTAIN EROSION AND SEDIMENTATION CONTROLS

- ALL CONTROL MEASURES WILL BE INSPECTED AT LEAST ONCE A WEEK AND AFTER EACH RAINFALL EVENT PROLONGED RAINFALL PERIODS.
- ALL MEASURES WILL BE MAINTAINED IN GOOD WORKING ORDER. IF A REPAIR IS NECESSARY, IT WILL BE MADE WITHIN 24 HOURS OF THE INSPECTION.
- SEDIMENT WILL BE REMOVED FROM THE SILT BARRIERS WHEN IT HAS REACHED ONE-THIRD OF THE HEIGHT OF THE BARRIER.
- SILT BARRIERS WILL BE INSPECTED FOR DEPTH OF ACCUMULATED SEDIMENT, TEARS, ATTACHMENT TO POSTS, AND STABILITY ON A WEEKLY BASIS.
- TEMPORARY AND PERMANENT SEEDING AND PLANTING WILL BE INSPECTED FOR BARE SPOTS, WASHOUTS, AND HEALTHY GROWTH.
- THE CONSTRUCTION MANAGER WILL SELECT INDIVIDUALS TO BE RESPONSIBLE FOR INSPECTIONS, MAINTENANCE, REPAIRS, AND REPORTING. THE DESIGNATED INDIVIDUALS WILL RECEIVE THE NECESSARY TRAINING FROM THE CONSTRUCTION MANAGER TO PROPERLY INSPECT AND MAINTAIN THE CONTROLS IN GOOD WORKING ORDER.

UNDERGROUND UTILITY STATEMENT:

THE UNDERGROUND UTILITIES SHOWN HEREON ARE DEPICTED FROM FIELD SURVEY INFORMATION OF ONE-CALL LOCATED UTILITIES AND/OR THE SCALING AND PLOTTING OF EXISTING UTILITY MAPS AND DRAWINGS MADE AVAILABLE TO THE SURVEYOR AT THE TIME OF SURVEY. THE SURVEYOR DOES NOT CERTIFY THAT THE UNDERGROUND UTILITIES SHOWN COMPRISE ALL UNDERGROUND UTILITIES IN THE AREA, EITHER IN SERVICE OR ABANDONED. FURTHERMORE, THE SURVEYOR DOES NOT CERTIFY THAT THE UNDERGROUND UTILITIES SHOWN ARE IN THE EXACT LOCATION DEPICTED ALTHOUGH HE DOES CERTIFY THAT THEY ARE DEPICTED AS ACCURATELY AS POSSIBLE FROM INFORMATION MADE AVAILABLE TO THE SURVEYOR AT THE TIME OF SURVEY. THE SURVEYOR HAS NOT PHYSICALLY LOCATED THE UNDERGROUND UTILITIES SHOWN HEREON BY EXCAVATION UNLESS OTHERWISE NOTED ON THIS SURVEY. MISSOURI ONE CALL TICKET NUMBER: #200431409, 200431440, 200431475, 200440745.

WARRANTY / DISCLAIMER

THE DESIGNS REPRESENTED IN THESE PLANS ARE IN ACCORDANCE WITH ESTABLISHED PRACTICES OF CIVIL ENGINEERING FOR THE DESIGN FUNCTIONS AND USES INTENDED BY THE OWNER AT THIS TIME. HOWEVER, NEITHER KAW VALLEY ENGINEERING, INC NOR ITS PERSONNEL CAN OR DO WARRANTY THESE DESIGNS OR PLANS AS CONSTRUCTED, EXCEPT IN THE SPECIFIC CASES WHERE KAW VALLEY ENGINEERING PERSONNEL INSPECT AND CONTROL THE PHYSICAL CONSTRUCTION ON A TEMPORARY BASIS AT THE SITE.

CAUTION - NOTICE TO CONTRACTOR

THE CONTRACTOR IS SPECIFICALLY CAUTIONED THAT THE LOCATION AND/OR ELEVATION OF EXISTING UTILITIES AS SHOWN ON THESE PLANS IS BASED ON RECORDS OF THE VARIOUS UTILITY COMPANIES AND, WHERE POSSIBLE, MEASUREMENTS TAKEN IN THE FIELD. THE INFORMATION IS NOT TO BE RELIED ON AS BEING EXACT OR COMPLETE. THE CONTRACTOR MUST CALL THE APPROPRIATE UTILITY COMPANY AT LEAST 72 HOURS BEFORE ANY EXCAVATION TO REQUEST EXACT FIELD LOCATION OF UTILITIES. IT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR TO RELOCATE ALL EXISTING UTILITIES WHICH CONFLICT WITH PROPOSED IMPROVEMENTS SHOWN ON THE PLANS. THE CONTRACTOR SHALL EXPOSE EXISTING UTILITIES AT LOCATIONS OF POSSIBLE CONFLICTS PRIOR TO ANY CONSTRUCTION.

SAFETY NOTICE TO CONTRACTOR

IN ACCORDANCE WITH ACCEPTED CONSTRUCTION PRACTICES, THE CONTRACTOR WILL BE SOLELY AND COMPLETELY RESPONSIBLE FOR CONDITIONS OF THE JOB SITE, INCLUDING SAFETY OF ALL PERSONS AND PROPERTY DURING PERFORMANCE OF THE WORK. THIS REQUIREMENT WILL APPLY CONTINUOUSLY AND NOT BE LIMITED TO NORMAL WORKING HOURS.

LEGEND:

- AIR CONDITIONER
- WALL MOUNTED ELECTRICAL OUTLET
- UNDERGROUND GAS
- GAS METER
- CONTROL POINT
- BENCHMARK
- GATE POST
- CHAIN LINK FENCE
- WOOD FENCE
- BOLLARD
- STREET/TRAFFIC SIGN
- PAINTED DIRECTIONAL ARROW
- TURN LANE DIRECTION
- HANDICAP SYMBOL
- PARKING STALL COUNT
- HANDICAP SIGN
- HRMP
- WHEEL STOP
- UNDERGROUND FIBER OPTIC CABLE
- UNDERGROUND FIBER OPTIC (FROM RECORDS)
- TELEPHONE PEDESTAL
- SANITARY SEWER MANHOLE
- STORM SEWER MANHOLE
- AREA INLET
- CURB INLET
- SANITARY SEWER CLEAN OUT
- DOWN SPOUT
- FLOOR DRAIN
- FLARED END SECTION
- SANITARY SEWER LINE
- STORM SEWER LINE
- CORRUGATED METAL PIPE
- REINFORCED CONCRETE PIPE
- VCP
- VTRIFIED CLAY PIPE
- UNDERGROUND ELECTRIC
- OVERHEAD UTILITY LINE (W OF LINES)
- PULL BOX
- LIGHT POLE
- UTILITY POLE
- UTILITY POLE W/ LIGHT
- UTILITY POLE W/ TRANSFORMER
- GUY ANCHOR
- WATER LINE PER RECORD
- UNDERGROUND ELECTRIC PER RECORD
- CONIFEROUS TREE
- TREE LINE
- FLAG POLE
- ELECTRIC METER
- UNDERGROUND ELECTRIC PEDESTAL
- SPEAKER BOX
- DUCTILE IRON PIPE
- HDPPE
- WALL MOUNTED LIGHT
- WALL MOUNTED CAMERA
- GAS VALVE
- GAS RISER
- GAS LINE SIGN
- EXISTING SPOT ELEVATION
- EXISTING GRADE 5' CONTOUR
- EXISTING GRADE 1' CONTOUR
- DE
- AT THRESHOLD
- FF
- FINISH FLOOR ELEVATION
- WATER MANHOLE
- SPRINKLER CONTROL BOX
- WATER MANHOLE
- SPRINKLER VALVE
- SPRINKLER VALVE
- SIAMISE FIRE CONNECTOR
- CANOPY SUPPORT
- MAIL BOX
- CONCRETE JOINT/CUT LINE
- BUSH
- DECIDUOUS TREE
- TRASH ENCLOSURE
- LANDSCAPING AREA
- CONEC
- CONCRETE
- LOWEST WIRE HEIGHT
- BREAKER BOX
- UNDERGROUND GAS PER RECORD
- SANITARY SEWER LINE PER RECORD
- STORM SEWER LINE PER RECORD
- OVERLAY
- GRAVEL SURFACE (ESC-01)
- CONCRETE SIDEWALK (055)
- CONCRETE CURB AND GUTTER
- CONCRETE CURB AND GUTTER WITH REVERSE FLOW
- LANDING
- TRANSITION

- NOTE:**
- CONTRACTOR SHALL REFER TO ARCHITECTURAL PLANS FOR EXACT LOCATIONS AND DIMENSIONS OF ENTRANCE, SLOPED PAVING, EXIT PORCHES, RAMPS. PRECISE BUILDING DIMENSIONS AND EXACT BUILDING UTILITY ENTRANCE LOCATIONS.
 - THESE PLANS HAVE NOT BEEN VERIFIED WITH FINAL ARCHITECTURAL CONTRACT DRAWINGS. CONTRACTOR SHALL VERIFY AND NOTIFY THE ENGINEER OF ANY DISCREPANCIES. CONTRACTOR IS FULLY RESPONSIBLE FOR REVIEW AND COORDINATION OF ALL DRAWINGS AND CONTRACTOR DOCUMENTS.
 - ALL DIMENSIONS ARE TO BACK OF CURB UNLESS NOTED OTHERWISE.

- EROSION & PROPOSED IMPROVEMENTS LEGEND:**
- EXISTING GROUND CONTOUR (1' INTERVALS)
 - PROPOSED FINISHED GROUND CONTOUR (1' INTERVALS)
 - SEDIMENTATION FENCE (ESC-03)
 - LIMITS OF DISTURBANCE
 - INLET PROTECTION (42)
 - STRAW WATTLE
 - CONCRETE WASH AREA
 - EROSION CONTROL BLANKET/ TURF REINFORCEMENT MAT (ESC-02)

- LEGEND (PROPOSED)**
- SPOT ELEVATION (ADD 900), TOP OF PAVEMENT
 - TOP OF CURB (ADD 900)
 - FINISHED 1' CONTOUR INTERVALS, TOP OF PAVEMENT
 - FLOW DIRECTION

- NOTES:**
- MATCH EXISTING CURB ELEVATION.
 - MATCH EXISTING SIDEWALK ELEVATION.
 - MATCH EXISTING PAVEMENT ELEVATION.
 - TRANSITION FROM ZERO HEIGHT CURB TO FULL HEIGHT CURB.
 - MATCH EXISTING TRACK CURB ELEVATION.
 - MATCH EXISTING TENNIS COURT ELEVATION
 - 2% SLOPE IN ALL DIRECTIONS TO BE PROVIDED WITHIN 10' OF TICKET WINDOW.

DETAILS - SEE DETAIL SHEET NO. H-C195

- B30 STRAW WATTLES CONSTRUCTION ENTRANCE AND CONCRETE WASHOUT
- ESC-01 EROSION CONTROL BLANKETS AND TURF REINFORCEMENT MAT
- ESC-02 SILT FENCE
- ESC-03 AREA INLET PROTECTION

SITE BENCHMARKS:

- BM-60 FOUND CUT SQUARE AT THE WEST NORTHWEST CONCRETE HEADWALL ON THE WEST SIDE OF THE EAST ENTRY DRIVE TO LEE'S SUMMIT HIGH SCHOOL. ELEVATION= 1042.70
- BM-61 SET CUT SQUARE WITH PUNCH IN THE SOUTHWEST EDGE ON A CONCRETE LIGHT BASE ON THE NORTH SIDE OF THE DRIVE LANE AT THE HIGH SCHOOL ADMINISTRATION CENTER ENTRY. ELEVATION= 1042.74
- BM-62 SET CUT SQUARE AT THE NORTHEAST CORNER OF THE FIRST STEP UP OF A CONCRETE WALK ON THE NORTH SIDE OF THE EAST MAIN WING. ELEVATION= 1040.51
- BM-63 SET CUT SQUARE AT THE TOP NORTHEAST CORNER OF A CONCRETE PATIO WITH COVERED TABLES ON THE EAST SIDE OF BUILDING "B". ELEVATION= 1015.74
- BM-64 SET CUT SQUARE AT THE TOP NORTHEAST CORNER OF STEPS TO THE NORTH ENTRY TO BUILDING "B" ON THE WEST SIDE. ELEVATION= 1015.34

HORIZONTAL AND VERTICAL DATUM:

UNLESS OTHERWISE NOTED THE COORDINATES SHOWN HEREON ARE GROUND COORDINATES BASED ON THE MISSOURI STATE PLANE (1983) WEST ZONE (NAD 1983) (NAD 1983) EASTING: 860950.475 (GRID/METERS) 2824923.692 (GRID/FEET) ELEVATION: 321.8 (METERS) 1055.77 (FEET)

IA-25 (PID: 095025) NORTHING: 303646.030 (GRID/METERS) 996313.829 (GROUND/FEET) EASTING: 860950.475 (GRID/METERS) 2824923.692 (GRID/FEET) ELEVATION: 321.8 (METERS) 1055.77 (FEET)

PROJECT CONTROL:

- CP #200 1/2" REBAR W/ ORANGE KVE CAP NORTHING: 996572.06 (GROUND) 996470.24 (GRID) EASTING: 2827438.76 (GROUND) 2827149.83 (GRID) ELEV = 1048.49
- CP #201 1/2" REBAR W/ ORANGE KVE CAP NORTHING: 996570.39 (GROUND) 996468.55 (GRID) EASTING: 2827055.45 (GROUND) 2826766.55 (GRID) ELEV = 1048.24
- CP #202 1/2" REBAR W/ ORANGE KVE CAP NORTHING: 996569.25 (GROUND) 996467.41 (GRID) EASTING: 2826889.97 (GROUND) 2826401.11 (GRID) ELEV = 1042.52
- CP #203 MAG NAIL NORTHING: 996957.62 (GROUND) 996855.74 (GRID) EASTING: 2826712.48 (GROUND) 2826423.62 (GRID) ELEV = 1039.43
- CP #204 1/2" REBAR W/ ORANGE KVE CAP NORTHING: 997397.38 (GROUND) 997295.43 (GRID) EASTING: 2826884.55 (GROUND) 2826395.70 (GRID) ELEV = 1023.04
- CP #205 1/2" REBAR W/ ORANGE KVE CAP NORTHING: 997403.51 (GROUND) 997301.59 (GRID) EASTING: 2826495.31 (GROUND) 2826206.47 (GRID) ELEV = 1018.15
- CP #206 1/2" REBAR W/ ORANGE KVE CAP NORTHING: 997985.93 (GROUND) 997883.94 (GRID) EASTING: 2826567.03 (GROUND) 2826278.18 (GRID) ELEV = 1012.56
- CP #207 1/2" REBAR W/ ORANGE KVE CAP NORTHING: 997970.64 (GROUND) 997868.66 (GRID) EASTING: 2826860.58 (GROUND) 2826571.70 (GRID) ELEV = 1014.79



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Lee's Summit R7 District Athletics Facilities

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400 SE Blue Parkway
Lee's Summit, MO 64063

owner:
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Kaw Valley Engineering, Inc.
Missouri Certificate of Authority: 000842
David Wood Date: 09/28/2020
Engineer License No. PE-2011037427

REVISIONS

Number	DESCRIPTION	DATE
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PROJECT NO: 0119-0100
DATE: SEPTEMBER 28, 2020

GRADING AND EROSION CONTROL PLAN

H-C300

BID SET



PROJ. NO. C20_0496 DSN: DOW DAVID D. WOOD
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**Lee's Summit R7 District
Athletics Facilities**

Lee's Summit High School
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Lee's Summit, MO 64063

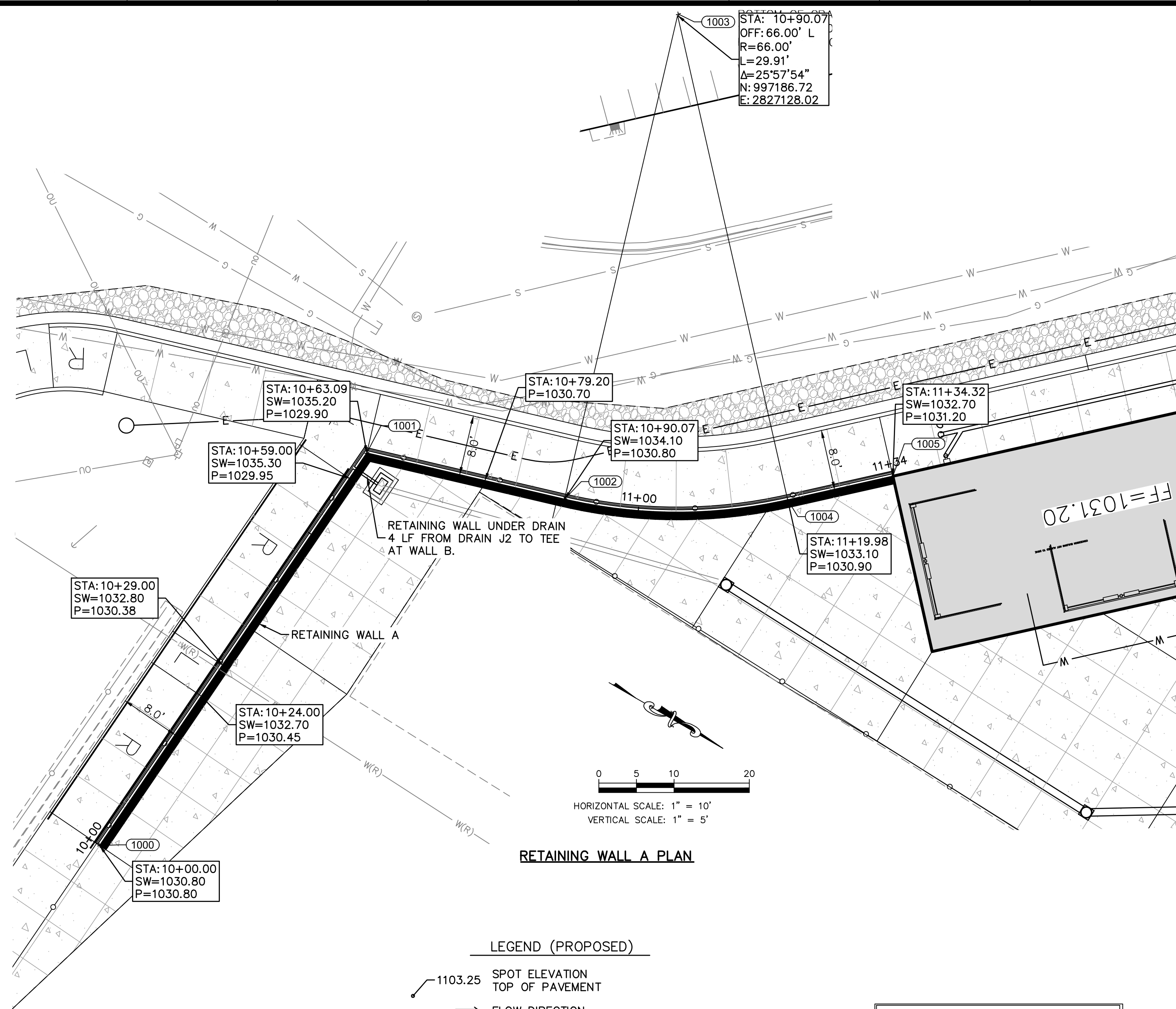
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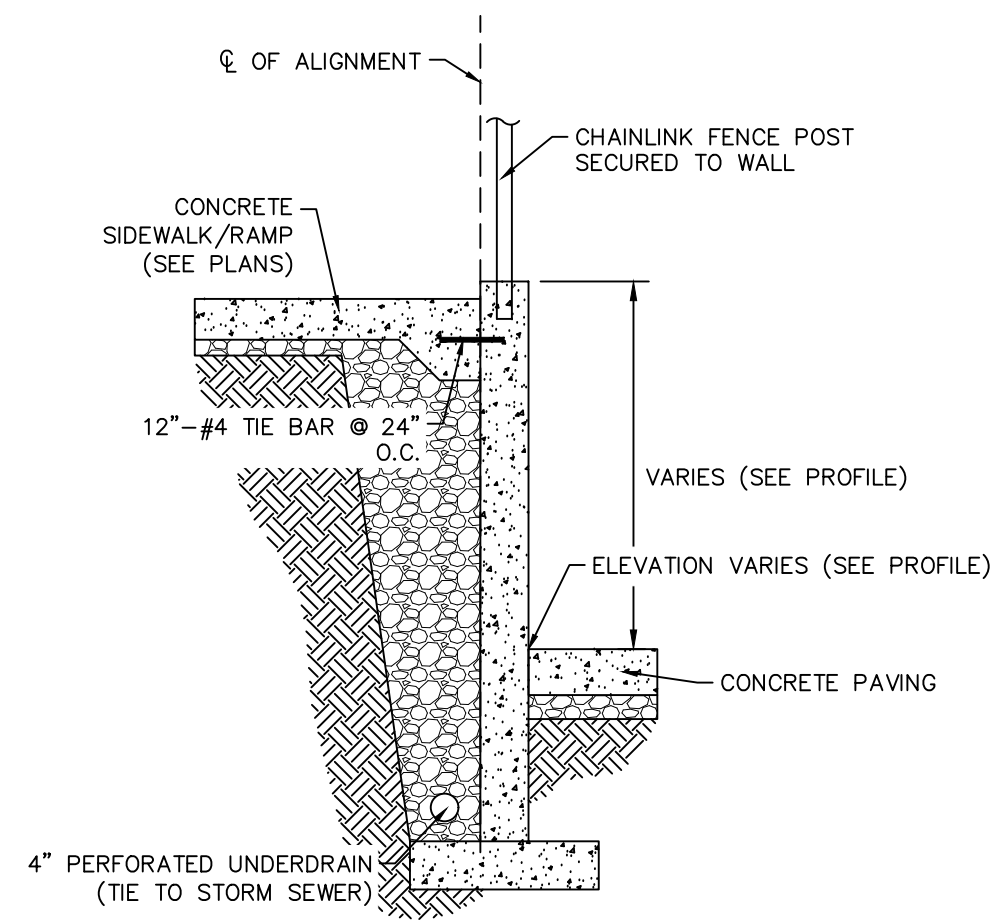
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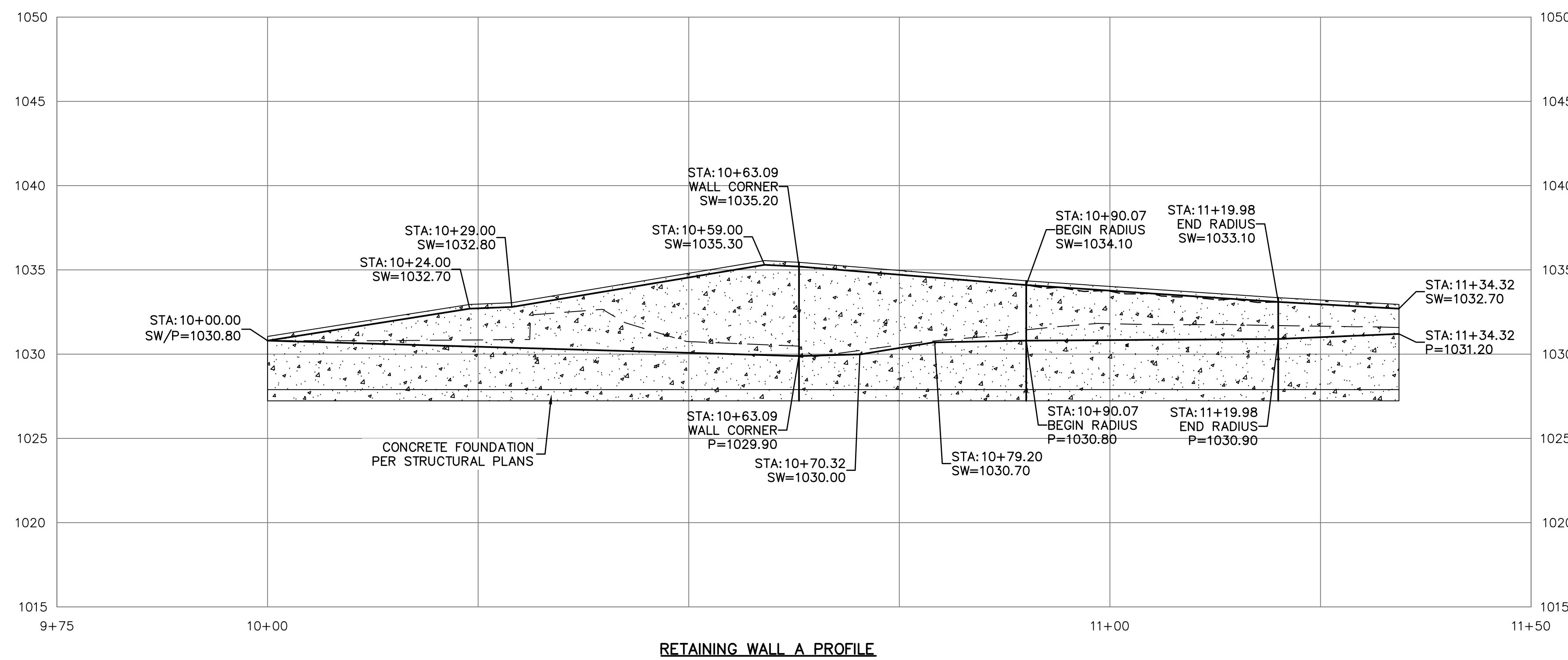
LEGEND (PROPOSED)

- 1103.25 SPOT ELEVATION TOP OF PAVEMENT
- ⇒ FLOW DIRECTION
- 1104 FINISHED 1' CONTOUR INTERVALS
- FW FACE OF WALL GROUND ELEVATION
- MS MOW STRIP ELEVATION AT TOP OF WALL
- SW SIDEWALK ELEVATION
- TC TOP OF CURB ELEVATION
- P PAVEMENT ELEVATION
- HP HIGH POINT

COORDINATE TABLE			
POINT	NORTHING	EASTING	DESCRIPTION
1000	997175.34	2827261.92	WALL A
1001	997180.01	2827199.01	WALL A
1002	997205.84	2827191.19	WALL A
1003	997186.72	2827127.81	WALL B
1004	997231.57	2827176.44	WALL B
1005	997242.10	2827166.72	WALL B

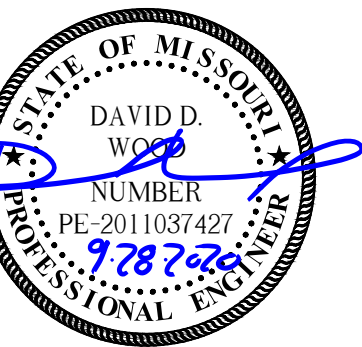


TYPICAL WALL SECTION
SEE STRUCTURAL PLANS



RETAINING WALL A PROFILE

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Kaw Valley Engineering, Inc.
Missouri Certificate of Authority: 000842
David Wood Date: 09/28/2020
Engineer License No. PE-2011037427

REVISIONS

Number	DESCRIPTION	DATE

PROJECT NO: 0119-0100
DATE: SEPTEMBER 28, 2020

PROJ. NO. C20_0496 DSN: DDW DAVID D. WOOD
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ENGINEERING SERVICES BY MISSOURI STATE CERTIFICATE OF
AUTHORITY # 000842. EXPIRES 12/31/21

**RETAINING WALL
PLAN AND PROFILE**

H-C350

BID SET

WATER LINE MATERIALS AND CONSTRUCTION NOTES:

- ALL WORK SHALL BE IN ACCORDANCE WITH SECTION 3900 WATER MAINS OF THE CITY OF LEE'S SUMMIT, MISSOURI STANDARD SPECIFICATIONS, CURRENT EDITION.
- CONTRACTOR SHALL NOT OPEN, TURN OFF, INTERFERE WITH, OR ATTACH ANY PIPE OR HOSE TO OR TAP ANY WATER MAIN BELONGING TO CITY OF LEE'S SUMMIT UTILITIES DEPARTMENT UNLESS DULY AUTHORIZED TO DO SO BY THE WATER DISTRICT. ANY ADVERSE CONSEQUENCE OF ANY SCHEDULED OR UNSCHEDULED DISRUPTIONS OF SERVICE TO THE PUBLIC ARE TO BE THE LIABILITY OF THE CONTRACTOR. KAW VALLEY ENGINEERING AND OWNER ARE TO BE HELD HARMLESS. CONTRACTOR SHALL PROVIDE A MINIMUM OF 48 HOURS NOTICE TO THE CITY OF LEE'S SUMMIT WATER UTILITIES OPERATIONS DEPARTMENT PRIOR TO STARTING ANY WORK.
- THE UTILITIES AS SHOWN ON THESE DRAWINGS WERE DEVELOPED FROM THE BEST INFORMATION AVAILABLE. IT IS THE CONTRACTOR'S RESPONSIBILITY TO VERIFY THE LOCATION OF ALL UTILITIES (WHETHER SHOWN OR NOT) AND PROTECT SAID UTILITIES FROM ANY DAMAGE. CONTRACTOR SHALL POTHOLE AND EXPOSE ALL UTILITIES AT LEAST 500 FEET IN ADVANCE OF WATER MAIN CONSTRUCTION, DETERMINING THE DEPTH, SIZE, AND MATERIAL OF THE UTILITIES IN PROXIMITY TO THE PROPOSED WATER MAIN ALIGNMENT. DEFLECT PIPE TO MAINTAIN MINIMUM 5 FEET HORIZONTAL AND 18 INCH VERTICAL CLEARANCES BETWEEN PROPOSED WATER MAIN AND EXISTING UTILITIES. SEPARATION WITH NON-POTABLE LINES REQUIRES 18 INCH VERTICAL CLEARANCE, SEE CONST. NOTE 8.
- CONTRACTOR SHALL FURNISH AND INSTALL, AT NO EXTRA COST, ALL FITTINGS AND RESTRAINING DEVICES REQUIRED TO PROVIDE PROPER HORIZONTAL AND VERTICAL ALIGNMENT FOR THE NEW WATER SERVICE, CONNECTING TO EXISTING WATER MAIN, AND INSTALLATION OF FIRE HYDRANTS AT THE PROPER LOCATION AND ELEVATION, WHETHER OR NOT THE FITTINGS ARE CALLED OUT ON THESE PLANS.
- CONTRACTOR SHALL FURNISH AND INSTALL, AT NO EXTRA COST, ALL TEMPORARY BLOW-OFF ASSEMBLIES, FITTINGS, AND RESTRAINING DEVICES NECESSARY FOR TEMPORARY CONNECTIONS FOR PRESSURE TESTING, CHLORINATING, DE-CHLORINATING, AND FLUSHING THE NEW WATER MAINS AND SERVICE LINES. THE CONTRACTOR SHALL REMOVE ANY CORPORATION COCKS USED FOR TESTING OR CHLORINATING AND REPLACE THEM WITH TAPERED BRASS PLUGS PRIOR TO PLACING NEW MAINS IN SERVICE.
- CONTRACTOR SHALL BE RESPONSIBLE FOR OBTAINING REQUIRED PERMITS, PAYING ALL FEES AND FOR OTHERWISE COMPLYING WITH ALL APPLICABLE REGULATIONS GOVERNING THE WORK.
- ALL DISTURBED AREAS SHALL BE SEEDED OR STABILIZED AS NOTED ON PLANS.
- WHEN WATER MAINS AND SANITARY SEWERS CROSS, A MINIMUM OF 18 INCHES OF CLEARANCE SHALL BE MAINTAINED BETWEEN THE BOTTOM OF THE WATER MAIN AND THE TOP OF SANITARY SEWER. WHEN 18 INCHES OF CLEARANCE CANNOT BE MAINTAINED OR WHEN A WATER MAIN MUST CROSS UNDER A SANITARY SEWER, THE SANITARY SEWER SHALL BE CONSTRUCTED OF DUCTILE IRON PIPE, PVC PRESSURE PIPE OR PRE-STRESSED CONCRETE CYLINDER PIPE FOR A DISTANCE OF 10.0 FEET ON EACH SIDE OF THE CROSSING. WHEN A WATER MAIN IS CONSTRUCTED PARALLEL TO A SANITARY SEWER, THE HORIZONTAL SEPARATION SHALL BE 10.0 FEET MEASURED FROM THE OUTSIDE OF THE PIPE OR STRUCTURE. IF A VERTICAL SEPARATION OF 18 INCHES CANNOT BE MAINTAINED AND IF THE WATER MAIN IS CONSTRUCTED CLOSER THAN 10.0 FEET TO THE SANITARY SEWER, THE SANITARY SEWER SHALL BE CONSTRUCTED OF DUCTILE IRON PIPE, PVC PRESSURE PIPE OR PRE-STRESSED CONCRETE CYLINDER PIPE, AND SHALL BE PRESSURE TESTED FOR WATER TIGHTNESS.
- CONTRACTOR SHALL FIELD CHECK ALL DIMENSIONS, COORDINATES AND ELEVATIONS BEFORE PROCEEDING WITH NEW WORK AND NOTIFY THE ENGINEER OF ANY DISCREPANCIES IMMEDIATELY. NO NEW CONSTRUCTION SHOULD BE PERFORMED BY "SCALING" FROM THE PLANS.
- ALL EXCAVATION AND BACKFILL SHALL MEET OR EXCEED THE PROJECT SPECIFICATION. ALL TRENCHES SHALL BE BACKFILLED IN UNIFORM LIFTS NOT TO EXCEED 8 INCHES IN LOOSE MEASUREMENT. EACH LIFT SHALL BE COMPACTED TO THE REQUIRED DENSITY PRIOR TO THE NEXT LIFT BEING PLACED. THE BACKFILL MATERIAL SHALL BE COMPACTED TO 95% OF THE MAXIMUM DRY DENSITY WITH A UNIFORM CONTENT OF WITHIN A RANGE OF OPTIMUM TO BE 4 PERCENT ABOVE OPTIMUM MOISTURE CONTENT FOR SOILS WITH A LIQUID LIMIT OF GREATER THAN 40 AND +/-3% OF OPTIMUM FOR SOILS WITH A LIQUID LIMIT LESS THAN 40 AS DEFINED BY THE STANDARD PROCTOR (ASTM-D698) UNDER AREAS TO BE PAVED. THE BACKFILL MATERIAL SHALL BE COMPACTED TO 95% OF THE MAXIMUM DENSITY AT OPTIMUM MOISTURE, PLUS 4%, IN AREAS NOT TO BE DEVELOPED. COMPACTION TESTS SHALL BE TAKEN AT EACH PAVEMENT CROSSING AND AT LOCATIONS DESIGNATED BY THE ENGINEER. ALL TRENCH BACKFILL WHICH DOES NOT MEET THE REQUIRED DENSITY, SHALL BE RE-EXCAVATED AND RE-COMPACTED UNTIL THE REQUIRED DENSITY IS OBTAINED. COPIES OF ALL COMPACTION TEST REPORTS SHALL BE PROVIDED TO THE ENGINEER.
- NO ROCK LARGER THAN FOUR INCHES MAXIMUM DIMENSION SHALL BE PLACED WITHIN TWO FEET OF THE TOP OF THE PIPE. NO ROCK GREATER THAN ONE FOOT SHALL BE PLACED IN ANY EXCAVATION AS A BACKFILL.
- LOCATIONS SHOWN FOR PROPOSED WATER LINES ARE APPROXIMATE. VARIATIONS MAY BE MADE, WITH APPROVAL OF THE ENGINEER TO AVOID CONFLICTS.
- TAPS 1-1/2" AND LARGER AT EXISTING MAIN WILL BE RESPONSIBILITY OF THE CONTRACTOR. WORK WILL BE COORDINATED WITH THE WATER DISTRICT.
- ALL DUCTILE IRON PIPE AND FITTINGS SHALL COMPLY WITH SECTIONS 3901 B & C OF THE CITY OF LEE'S SUMMIT, MISSOURI STANDARDS SPECIFICATIONS SUBJECT TO THE CITY'S CURRENTLY ADOPTED FIRE CODE. THICKNESS SHALL BE SPECIAL THICKNESS CLASS 50.
- ALL POLYVINYL CHLORIDE PIPE AND FITTINGS SHALL COMPLY WITH SECTION 3901.B & D OF THE CITY OF LEE'S SUMMIT, MISSOURI STANDARDS SPECIFICATIONS SUBJECT TO RESTRICTION OF THE CITY'S CURRENTLY ADOPTED FIRE CODE. THE MINIMUM PRESSURE CLASS SHALL BE CLASS 235.
- SERVICE LINES 2 INCHES IN DIAMETER AND SMALLER SHALL BE MADE OF TYPE K SOFT COPPER, COMPLYING WITH ASTM B88.
- ALL VALVES AND OTHER MATERIALS SHALL CONFORM TO SECTIONS 3901 E THRU S. REFER TO THE CITY'S APPROVED MATERIALS LIST.
- CONSTRUCTION AND INSTALLATION SHALL BE IN ACCORDANCE WITH SECTION 3902 OF THE CITY OF LEE'S SUMMIT, MISSOURI STANDARD SPECIFICATIONS.
- WATER LINES SHALL HAVE A MINIMUM COVER OF 42". DEEPER EXCAVATIONS FOR CLEARANCE AT EXISTING PROPOSED UTILITIES IS ACCEPTABLE. REFERENCE CONST. NOTES 3 AND 8. FOR WATER MAINS CONSTRUCTED UNDER DRIVES OR PARKING AREAS THE DRIVES OR PARKING AREAS ARE TO BE TO SUBGRADE PRIOR TO WATER MAIN CONSTRUCTION.
- WHERE FIRE HYDRANTS ARE NOT LOCATED AT THE END OF LINES, THE CONTRACTOR SHALL FURNISH A FLUSHING DEVICE.
- FIRE HYDRANTS SHALL BE INSTALLED SO THAT THE CENTERLINE OF THE OUTLET NOZZLE IS BETWEEN EIGHTEEN INCHES ABOVE FINISHED GRADE, AND SO THAT THERE IS A MINIMUM CLEAR AREA OF 5' IN EACH DIRECTION TO ALLOW OPERATION OF THE HYDRANT. ALL FIRE HYDRANTS ARE TO BE SET WITH THE BASE 2" TO 6" ABOVE THE TOP OF CURB OR GRADE, AS RECOMMENDED BY THE HYDRANT'S MANUFACTURER. HYDRANTS SHALL BE PAINTED AS NOTE IN SECTION 3901 O.9.
- ALL TREES SHALL BE SAVED UNLESS MARKED. REFERENCE PROJECT LAND DISTURBANCE PLANS.
- THRUST BLOCKS OR APPROVED JOINT RESTRAINTS SHALL BE PROVIDED AT TEES, BENDS, AND HYDRANT ASSEMBLIES.
- CONSTRUCTION INSPECTION WILL BE PROVIDED BY OWNER.
- CONTRACTOR SHALL INSTALL PIPE, BENDS AND FITTINGS AS NECESSARY TO MAKE A COMPLETE OPERATIONAL SYSTEM. LINE IS TO BE AS-BUILT. CONTRACTOR SHALL MAINTAIN "AS CONSTRUCTED DRAWINGS" TO BE SUPPLIED TO LEE'S SUMMIT SCHOOL DISTRICT NOTING VALVE AND FITTING LOCATIONS AT THE END PROJECT.
- THE ABANDONMENT OF ALL WATER MAINS SHALL BE IN ACCORDANCE WITH SECTION 3902 B.12 OF THE CITY OF LEE'S SUMMIT, MISSOURI STANDARD SPECIFICATIONS.
- CONTRACTOR SHALL VERIFY THE OUTSIDE DIAMETER (O.D.) OF THE EXISTING WATER MAIN PRIOR TO SCHEDULING CONNECTION. PROVIDE SOLID SLEEVES AS REQUIRED.
- CONTRACTOR SHALL FLUSH, DISINFECT AND COMPLETE HYDROSTATIC AND LEAKAGE TESTS ON WATER MAINS IN ACCORDANCE WITH SECTIONS 3902 C & D OF THE CITY OF LEE'S SUMMIT, MISSOURI STANDARD SPECIFICATIONS.

UTILITY NOTES:

- EXCAVATION, TRENCHING AND BACKFILL SHALL BE COMPLETED IN ACCORDANCE WITH SECTION 2100 GRADING AND SITE PREPARATION OF THE KANSAS CITY METROPOLITAN CHAPTER OF APWA SPECIFICATIONS AS ADOPTED AND AMENDED BY THE CITY OF LEE'S SUMMIT.
- ALL BACKFILL SHALL BE TAMPED. BACKFILL WITHIN THE RIGHT-OF-WAY AND UNDER PARKING AREAS AND SLABS SHALL BE 95% COMPACTION OF OPTIMUM MOISTURE.
- CONTRACTOR SHALL NOT OPEN, TURN OFF, INTERFERE WITH, OR ATTACH ANY PIPE OR HOSE TO OR TAP ANY WATER MAIN BELONGING TO THE CITY OF LEE'S SUMMIT UTILITIES DEPARTMENT UNLESS DULY AUTHORIZED TO DO SO. ANY ADVERSE CONSEQUENCE OF ANY SCHEDULED OR UNSCHEDULED DISRUPTIONS OF SERVICE TO THE PUBLIC ARE TO BE THE LIABILITY OF THE CONTRACTOR. KAW VALLEY ENGINEERING AND OWNER ARE TO BE HELD HARMLESS. CONTRACTOR SHALL NOTIFY THE UTILITIES DEPARTMENT 48 HOURS MINIMUM.
- CONTRACTOR TO INSTALL TRACING TAPE ALONG ALL NON-METALLIC SERVICE LINES PER SPECIFICATIONS.
- CONTRACTOR SHALL EXPOSE EXISTING UTILITIES AT LOCATIONS OF POSSIBLE CONFLICT AND POINTS OF CONNECTION PRIOR TO ANY CONSTRUCTION OF NEW UTILITIES.
- A MINIMUM HORIZONTAL DISTANCE SHALL BE MAINTAINED BETWEEN PARALLEL WATER AND SANITARY SEWER LINES. REFERENCE LEE'S SUMMIT SPECIFICATIONS, SECTIONS 3500 AND 3900.
- CONTRACTOR TO SCHEDULE ALL INSPECTIONS FOR SEWER MAIN CONNECTIONS THROUGH THE PUBLIC WORKS DEPARTMENT.

SANITARY SEWER MATERIALS AND CONSTRUCTION NOTES:

- ALL WORK RELATED TO SANITARY SEWER SHALL BE COMPLETED IN ACCORDANCE WITH SECTION 3500 SANITARY SEWERS OF THE CITY OF LEE'S SUMMIT, MISSOURI STANDARD SPECIFICATIONS.
- ALL PIPE USED FOR SANITARY SEWER SHALL BE PVC (SDR 26) OR DIP (CL 50) AS NOTED ON PLANS. MATERIAL SHALL CONFORM TO SECTION 3501 C & D OF THE CITY OF LEE'S SUMMIT, MISSOURI STANDARD SPECIFICATIONS.
- ALL EXISTING UTILITIES INDICATED ON THE DRAWINGS ARE ACCORDING TO THE BEST INFORMATION AVAILABLE TO THE ENGINEER; HOWEVER, ALL UTILITIES ACTUALLY EXISTING MAY NOT BE SHOWN. UTILITIES DAMAGED THROUGH THE NEGLIGENCE OF THE CONTRACTOR TO OBTAIN THE LOCATION OF SAME SHALL BE REPAIRED OR REPLACED BY THE CONTRACTOR AT HIS EXPENSE.
- ALL INSTALLATION SHALL BE COMPLETED IN ACCORDANCE WITH SECTION 3502 OF THE CITY OF LEE'S SUMMIT, MISSOURI STANDARD SPECIFICATIONS. REFER TO SECTION 3502.C FOR TESTING AND ACCEPTANCE REQUIREMENTS.
- EXCAVATION, TRENCHING AND BACKFILL SHALL BE COMPLETED IN ACCORDANCE WITH SECTION 2100 GRADING AND SITE PREPARATION OF THE KANSAS CITY METROPOLITAN CHAPTER OF APWA SPECIFICATIONS AS ADOPTED AND AMENDED BY THE CITY OF LEE'S SUMMIT. ALL EXCAVATIONS SHALL BE CONSIDERED UNCLASSIFIED. REFER TO PROJECT GEOTECHNICAL REPORT.
- ALL BACKFILL SHALL BE TAMPED. BACKFILL WITHIN THE RIGHT-OF-WAY AND UNDER PARKING AREAS AND SLABS SHALL BE 95% COMPACTION OF OPTIMUM MOISTURE.
- ALL STUB LINES SHALL BE LAID ON 1.00% GRADE FOR 6" PIPE AND 2.00% GRADE FOR 4" PIPE, UNLESS NOTED OTHERWISE.
- RELOCATION OF ANY WATER LINE, SEWER LINE OR SERVICE LINE THEREOF REQUIRED FOR THE CONSTRUCTION OF THIS PROJECT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR AND SHALL BE AT HIS EXPENSE. REFER TO PLANS FOR ADDITIONAL INFORMATION.

CAUTION - NOTICE TO CONTRACTOR

THE CONTRACTOR IS SPECIFICALLY CAUTIONED THAT THE LOCATION AND/OR ELEVATION OF EXISTING UTILITIES AS SHOWN ON THESE PLANS IS BASED ON RECORDS OF THE VARIOUS UTILITY COMPANIES AND, WHERE POSSIBLE, MEASUREMENTS TAKEN IN THE FIELD. THE INFORMATION IS NOT TO BE RELIED ON AS EXACT OR COMPLETE. THE CONTRACTOR MUST CALL THE APPROPRIATE UTILITY COMPANY AT LEAST 72 HOURS BEFORE ANY EXCAVATION TO REQUEST EXACT FIELD LOCATION OF UTILITIES. IT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR TO RELOCATE ALL EXISTING UTILITIES WHICH CONFLICT WITH PROPOSED IMPROVEMENTS SHOWN ON THE PLANS. THE CONTRACTOR SHALL EXPOSE EXISTING UTILITIES AT LOCATIONS OF POSSIBLE CONFLICTS PRIOR TO ANY CONSTRUCTION.

SAFETY NOTICE TO CONTRACTOR

IN ACCORDANCE WITH GENERALLY ACCEPTED CONSTRUCTION PRACTICES, THE CONTRACTOR WILL BE SOLELY AND COMPLETELY RESPONSIBLE FOR CONDITIONS OF THE JOB SITE, INCLUDING SAFETY OF ALL PERSONS AND PROPERTY DURING PERFORMANCE OF THE WORK. THIS REQUIREMENT WILL APPLY CONTINUOUSLY AND NOT BE LIMITED TO NORMAL WORKING HOURS.

LEGEND:

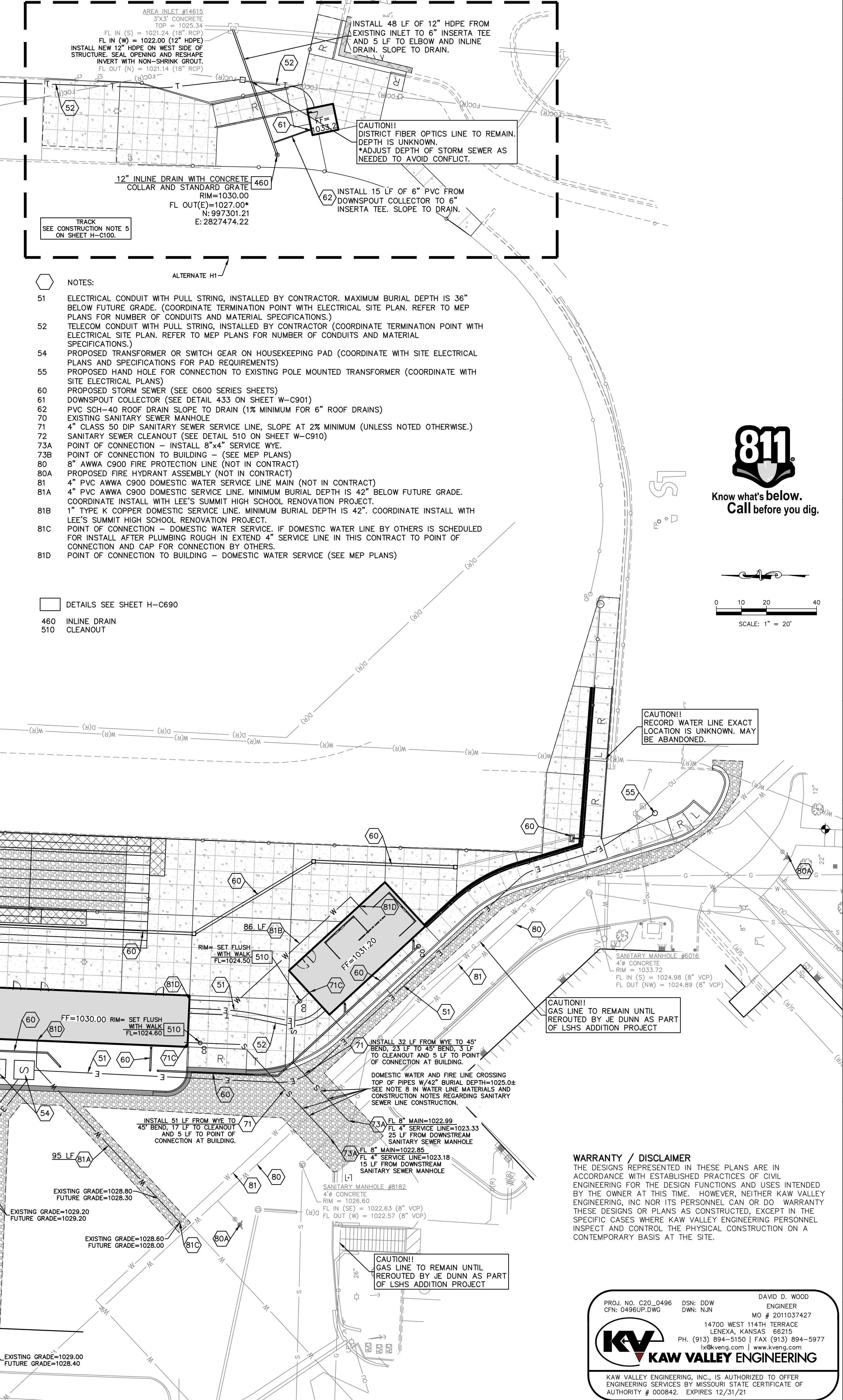
AC	AIR CONDITIONER	DIP	DUCTILE IRON PIPE
EG	WALL MOUNTED ELECTRICAL OUTLET	HDPE	HIGH DENSITY POLYETHYLENE
UG	UNDERGROUND GAS	ML	WALL MOUNTED LIGHT
GM	GAS METER	WC	WALL MOUNTED CAMERA
CP	CONTROL POINT	GV	GAS VALVE
BM	BENCHMARK	GR	GAS RISER
GP	GATE POST	GL	GAS LINE SIGN
CF	CHAIN LINK FENCE	DE	DOOR ELEVATION
WF	WOOD FENCE	AT	AT THRESHOLD
BL	BOLLARD	FF	FINISH FLOOR ELEVATION
ST	STREET/TRAFFIC SIGN	BHE	BUILDING HEIGHT/ELEVATION
PA	PAINTED DIRECTIONAL ARROW	B/B	BACK TO BACK OF CURB MEASUREMENT
TL	TURN LANE DIRECTION	E/E	EDGE TO EDGE OF ASPHALT
HS	HANDICAP SYMBOL	WL	WATER LINE
SC	PARKING STALL COUNT	WM	WATER METER
HA	HANDICAP SIGN	WLV	WATER LINE GATE VALVE
HRMP	HANDICAP RAMP	FH	FIRE HYDRANT
WS	WHEEL STOP	WCN	WATER METER CONTROL BOX
FOC	UNDERGROUND FIBER OPTIC CABLE	WMH	WATER MANHOLE
FOCR	UNDERGROUND FIBER OPTIC (FROM RECORDS)	SV	SPRINKLER VALVE
TP	TELEPHONE PEDESTAL	FC	FLAME FRET CONNECTOR
SM	SANITARY SEWER MANHOLE	CS	CANOPY SUPPORT
SSM	SANITARY SEWER MANHOLE	MB	MAIL BOX
AI	AREA INLET	CJ	CONCRETE JOINT/CUT LINE
CI	CURB INLET	BT	BUSH
SCC	SANITARY SEWER CLEAN OUT	DT	DECIDUOUS TREE
DS	DOWN SPOUT	TE	TRASH ENCLOSURE
FD	FLOOR DRAIN	L/S	LANDSCAPING AREA
FES	FLARED END SECTION	CONC	CONCRETE
SSL	SANITARY SEWER LINE	LW	LOWEST WIRE HEIGHT
SSL	STORM SEWER LINE	FP	FLAG POLE
CMP	CORRUGATED METAL PIPE	EM	ELECTRIC METER
RCP	REINFORCED CONCRETE PIPE	UEP	UNDERGROUND ELECTRIC PEDESTAL
VCP	VITRIFIED CLAY PIPE	SB	SPEAKER BOX
UG	UNDERGROUND ELECTRIC	UB	UNDERGROUND BREAKER BOX
UL	OVERHEAD UTILITY LINE (4" OR LARGER)	UGP	UNDERGROUND GAS PER RECORD
FB	PULL BOX	UGS	UNDERGROUND GAS PER RECORD
LP	LIGHT POLE	UGR	UNDERGROUND GAS PER RECORD
ULP	UTILITY POLE W/ LIGHT	OV	OVERLAY
UTP	UTILITY POLE W/ TRANSFORMER	CS	CONCRETE SIDEWALK (055)
QA	QUY ANCHOR	CG	CONCRETE CURB AND GUTTER
WR	WATER LINE PER RECORD	CGG	CONCRETE CURB AND GUTTER WITH REVERSE FLOW
WRP	WATER LINE PER RECORD	ET	ELECTRIC TREE
WRP	WATER LINE PER RECORD	TL	TREE LINE

NOTE:
1. CONTRACTOR SHALL REFER TO ARCHITECTURAL PLANS FOR EXACT LOCATIONS AND DIMENSIONS OF ENTRANCE SLOPED PAVING, EXIT PORCHES, RAMPS, PRECISE BUILDING DIMENSIONS AND EXACT BUILDING UTILITY ENTRANCE LOCATIONS.

NOTE:
2. THESE PLANS HAVE NOT BEEN VERIFIED WITH FINAL ARCHITECTURAL CONTRACT DRAWINGS. CONTRACTOR SHALL VERIFY AND NOTIFY THE ENGINEER OF ANY DISCREPANCIES. CONTRACTOR IS FULLY RESPONSIBLE FOR REVIEW AND COORDINATION OF ALL DRAWINGS AND CONTRACTOR DOCUMENTS.

NOTE:
1. REFER TO SHEETS H-E001 AND H-E002 FOR ADDITIONAL SITE ELECTRICAL AND TELECOM REQUIREMENTS FOR SITE LIGHTING AND SIGNAGE.

NOTE:
2. ALL WATER SERVICE INSTALLATIONS INCLUDING BACKFLOW DEVICES ARE SUBJECT TO FIELD VERIFICATION AND APPROVAL BY THE WATER DEPARTMENT INSPECTOR.



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phoenix • san francisco
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Lee's Summit R7 District Athletics Facilities

Lee's Summit High School
400 SE Blue Parkway
Lee's Summit, MO 64063

owner:
Lee's Summit R7 School District
301 NE Tudor Road
Lee's Summit, MO 64086

architect:
Gould Evans
4200 Pennsylvania Avenue
Kansas City, MO 64111
816.931.6555 voice
www.gould-evans.com

structural engineer:
Bob D. Campbell & Company, Inc.
4338 Bellevue
Kansas City, MO 64111
816.531.4144

civil engineer:
Kaw Valley Engineering
14700 West 141st Terrace
Lenexa, KS 66215
913.485.0318

mechanical/electrical engineer:
Henderson Engineers
1801 Main St
Kansas City, MO 64108
816.963.3700

811
Know what's below.
Call before you dig.

SCALE: 1" = 20'

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DAVID D. WOOD
REGISTERED PROFESSIONAL ENGINEER
PE-2011037427
787-536

Kaw Valley Engineering, Inc.
Missouri Certificate of Authority: 000842
David Wood Date: 09/28/2020
Engineer License No. PE-2011037427

REVISIONS	Number	DESCRIPTION	DATE

PROJECT NO: 0119-0100
DATE: SEPTEMBER 28, 2020

UTILITY PLAN H-C500
BID SET

PROJ. NO. C20_0496 DSN: DDW DAVID D. WOOD ENGINEER
CFN: 0496UP.DWG DWN: NJN MO # 2011037427
14700 WEST 141ST TERRACE
LENEXA, KANSAS 66215
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www.kvweng.com | www.kvweng.com

KAW VALLEY ENGINEERING
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**Lee's Summit R7 District
Athletics Facilities**

Lee's Summit High School
400 SE Blue Parkway
Lee's Summit, MO 64063

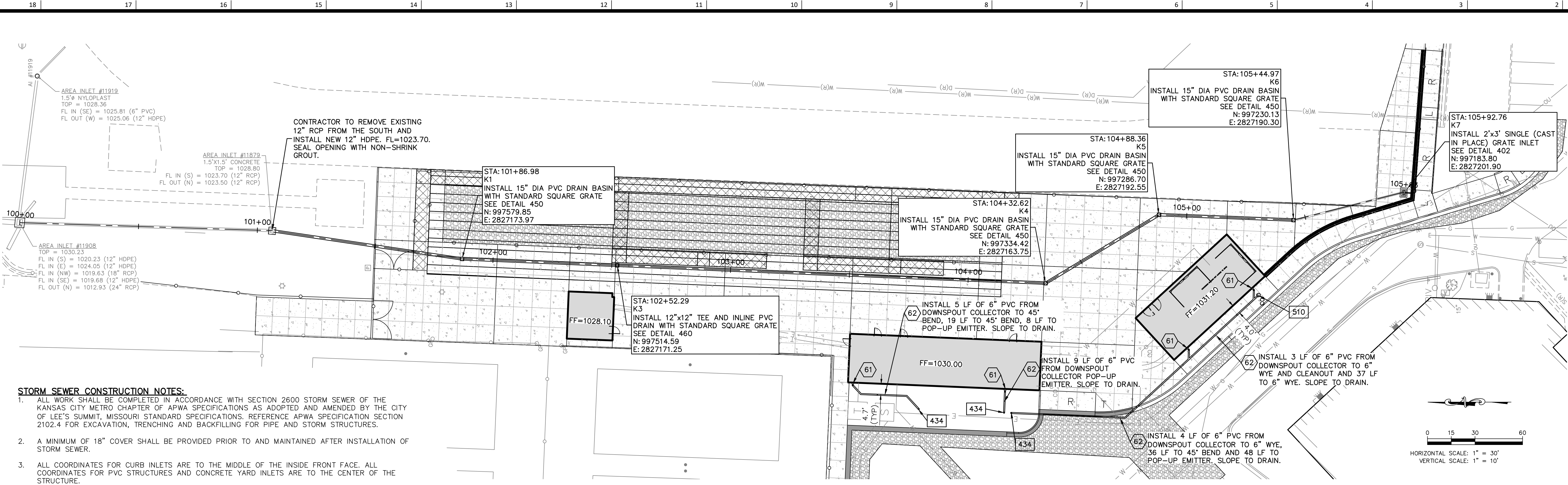
owner:
Lee's Summit R7 School District
301 NE Tudor Road
Lee's Summit, MO 64086

architect:
Gould Evans
4200 Pennsylvania Avenue
Kansas City, MO 64111
816.931.6555 voice
www.gould-evans.com

structural engineer:
Bob D. Campbell & Company, Inc.
4338 Bellevue
Kansas City, MO 64111
816.531.4144

civil engineer:
Kaw Valley Engineering
14700 West 14th Terrace
Lenexa, KS 66215
913.485.0318

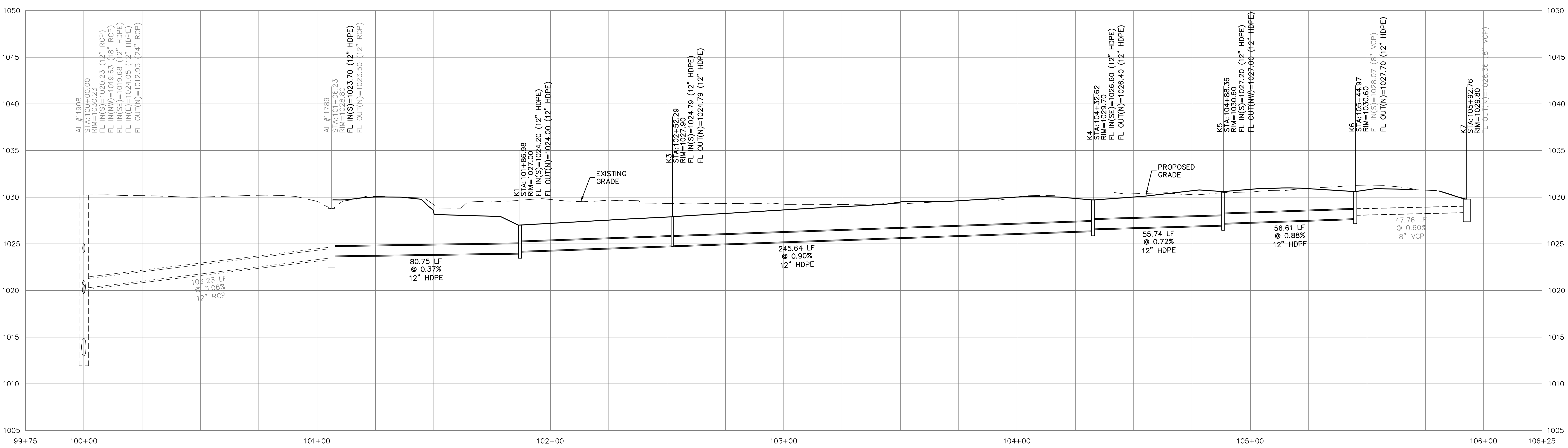
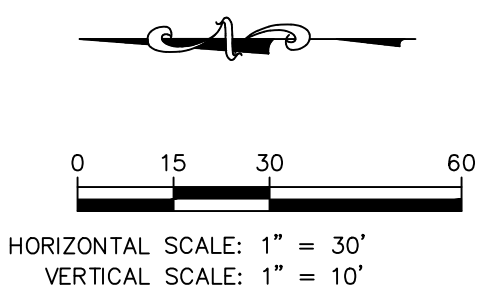
mechanical/electrical engineer:
Henderson Engineers
1801 Main St
Kansas City, MO 64108
816.663.3700



PRIVATE STORM SEWER LINE K PLAN

- STORM SEWER CONSTRUCTION NOTES:**
- ALL WORK SHALL BE COMPLETED IN ACCORDANCE WITH SECTION 2600 STORM SEWER OF THE KANSAS CITY METRO CHAPTER OF APWA SPECIFICATIONS AS ADOPTED AND AMENDED BY THE CITY OF LEE'S SUMMIT, MISSOURI STANDARD SPECIFICATIONS, REFERENCE APWA SPECIFICATION SECTION 2102.4 FOR EXCAVATION, TRENCHING AND BACKFILLING FOR PIPE AND STORM STRUCTURES.
 - A MINIMUM OF 18" COVER SHALL BE PROVIDED PRIOR TO AND MAINTAINED AFTER INSTALLATION OF STORM SEWER.
 - ALL COORDINATES FOR CURB INLETS ARE TO THE MIDDLE OF THE INSIDE FRONT FACE. ALL COORDINATES FOR PVC STRUCTURES AND CONCRETE YARD INLETS ARE TO THE CENTER OF THE STRUCTURE.
 - ALL JUNCTION BOXES/AREA INLETS HAVE ONE COORDINATE PROVIDED AT THE CENTER OF STRUCTURE. SEE PLAN FOR CLARIFICATION. ORIENT STRUCTURES PARALLEL TO ADJACENT CURB, BUILDING OR WALL FACE, UNLESS NOTED OTHERWISE.
 - RIM ELEVATION IS PROVIDED AT COORDINATE, UNLESS NOTED OTHERWISE. CONTRACTOR TO ADJUST ELEVATION OF RIM AS REQUIRED TO MATCH SLOPE OF ADJACENT CURB LINE. REFER TO GRADING PLAN (C300 SERIES SHEETS).
 - ALL EXISTING UTILITIES INDICATED ON THE DRAWING ARE ACCORDING TO THE BEST INFORMATION AVAILABLE TO THE ENGINEER, HOWEVER, ALL UTILITIES ACTUALLY EXISTING MAY NOT BE SHOWN. UTILITIES DAMAGED THROUGH THE NEGLIGENCE OF THE CONTRACTOR TO OBTAIN THE LOCATION OF SAME SHALL BE REPAIRED OR REPLACED BY THE CONTRACTOR AT THEIR EXPENSE.
 - ALL BACKFILL SHALL BE COMPACTED TO 95 PERCENT STANDARD DENSITY AT OPTIMUM MOISTURE.
 - ALL EXCAVATION BENEATH THE STREETS AND PARKING LOTS FOR DRAINAGE PIPE LESS THAN 4'-0" IN DIAMETER SHALL BE BACKFILLED WITH AGGREGATE TO FOUR FEET (4') PAST BACK OF CURB IN ACCORDANCE WITH APWA SPECIFICATIONS SECTION 2102.4J.
 - RELOCATION OF ANY WATER LINE, SEWER LINE OR SERVICE LINE THEREOF REQUIRED FOR THE CONSTRUCTION OF THIS PROJECT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR AND SHALL BE AT THEIR EXPENSE.
 - IF PRECAST STORM STRUCTURES ARE TO BE USED ON THIS PROJECT, THE CONTRACTOR SHALL SUBMIT SHOP DRAWINGS AND HAVE THEM APPROVED BY THE ENGINEER PRIOR TO FABRICATION OF THE STRUCTURES. FAILURE TO DO SO SHALL BE CAUSE FOR REJECTION.
 - ALL HDPE PIPE JOINTS SHALL BE WATER TIGHT.

- DETAILS SEE SHEET C690 AND C691
- 402 SINGLE GRATE INLET
 - 433 DOWNSPOUT COLLECTOR
 - 434 POP-UP EMITTER
 - 450 PVC DRAIN BASIN - CONTRACTOR TO ORDER INLETS ONE FOOT TALLER THAN PLAN ELEVATION SO INLET CAN BE FIELD ADJUSTED
 - 460 INLINE DRAIN
 - 510 CLEANOUT
- NOTES
- 61 DOWNSPOUT COLLECTOR (SEE DETAIL 433 ON SHEET W-C901)
 - 62 PVC SCH-40 ROOF DRAIN SLOPE TO DRAIN (1% MINIMUM FOR 6" ROOF DRAINS)



PRIVATE STORM SEWER LINE K PROFILE

SAFETY NOTICE TO CONTRACTOR
IN ACCORDANCE WITH GENERALLY ACCEPTED CONSTRUCTION PRACTICES, THE CONTRACTOR WILL BE SOLELY AND COMPLETELY RESPONSIBLE FOR CONDITIONS OF THE JOB SITE, INCLUDING SAFETY OF ALL PERSONS AND PROPERTY DURING PERFORMANCE OF THE WORK. THIS REQUIREMENT WILL APPLY CONTINUOUSLY AND NOT BE LIMITED TO NORMAL WORKING HOURS.

WARRANTY / DISCLAIMER
THE DESIGNS REPRESENTED IN THESE PLANS ARE IN ACCORDANCE WITH ESTABLISHED PRACTICES OF CIVIL ENGINEERING FOR THE DESIGN FUNCTIONS AND USES INTENDED BY THE OWNER AT THIS TIME. HOWEVER, NEITHER KAW VALLEY ENGINEERING, INC NOR ITS PERSONNEL CAN OR DO WARRANTY THESE DESIGNS OR PLANS AS CONSTRUCTED, EXCEPT IN THE SPECIFIC CASES WHERE KAW VALLEY ENGINEERING PERSONNEL INSPECT AND CONTROL THE PHYSICAL CONSTRUCTION ON A CONTEMPORARY BASIS AT THE SITE.

CAUTION - NOTICE TO CONTRACTOR
THE CONTRACTOR IS SPECIFICALLY CAUTIONED THAT THE LOCATION AND/OR ELEVATION OF EXISTING UTILITIES AS SHOWN ON THESE PLANS IS BASED ON RECORDS OF THE VARIOUS UTILITY COMPANIES AND, WHERE POSSIBLE, MEASUREMENTS TAKEN IN THE FIELD. THE INFORMATION IS NOT TO BE RELIED ON AS BEING EXACT OR COMPLETE. THE CONTRACTOR MUST CALL THE APPROPRIATE UTILITY COMPANY AT LEAST 72 HOURS BEFORE ANY EXCAVATION TO REQUEST EXACT FIELD LOCATION OF UTILITIES. IT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR TO RELOCATE ALL EXISTING UTILITIES WHICH CONFLICT WITH PROPOSED IMPROVEMENTS SHOWN ON THE PLANS. THE CONTRACTOR SHALL EXPOSE EXISTING UTILITIES AT LOCATIONS OF POSSIBLE CONFLICTS PRIOR TO ANY CONSTRUCTION.



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CFN: 0496DPP.DWG DWN: NJN ENGINEER
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KAW VALLEY ENGINEERING
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Kaw Valley Engineering, Inc.
Missouri Certificate of Authority: 000842
David Wood Date: 09/28/2020
Engineer License No. PE-2011037427

REVISIONS

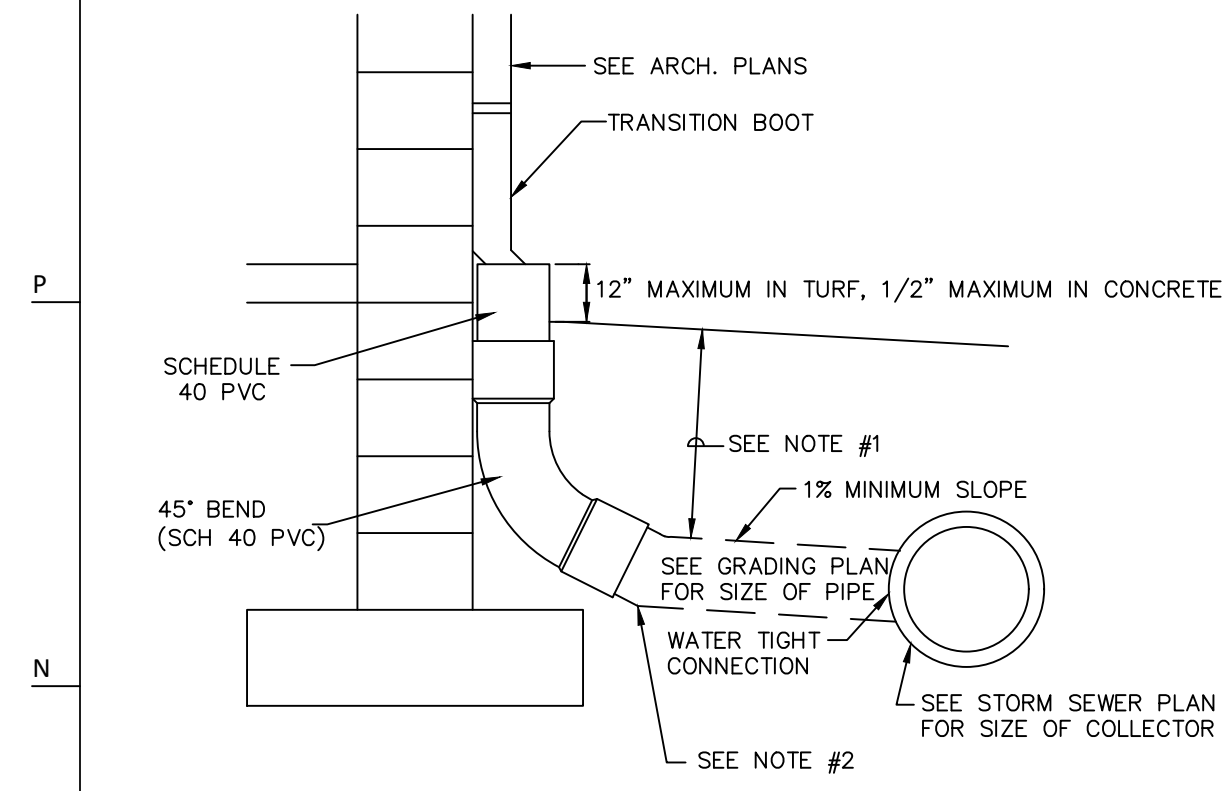
Number	DESCRIPTION	DATE

PROJECT NO: 0119-0100
DATE: SEPTEMBER 28, 2020

**STORM SEWER
PLAN AND PROFILE**

H-C600

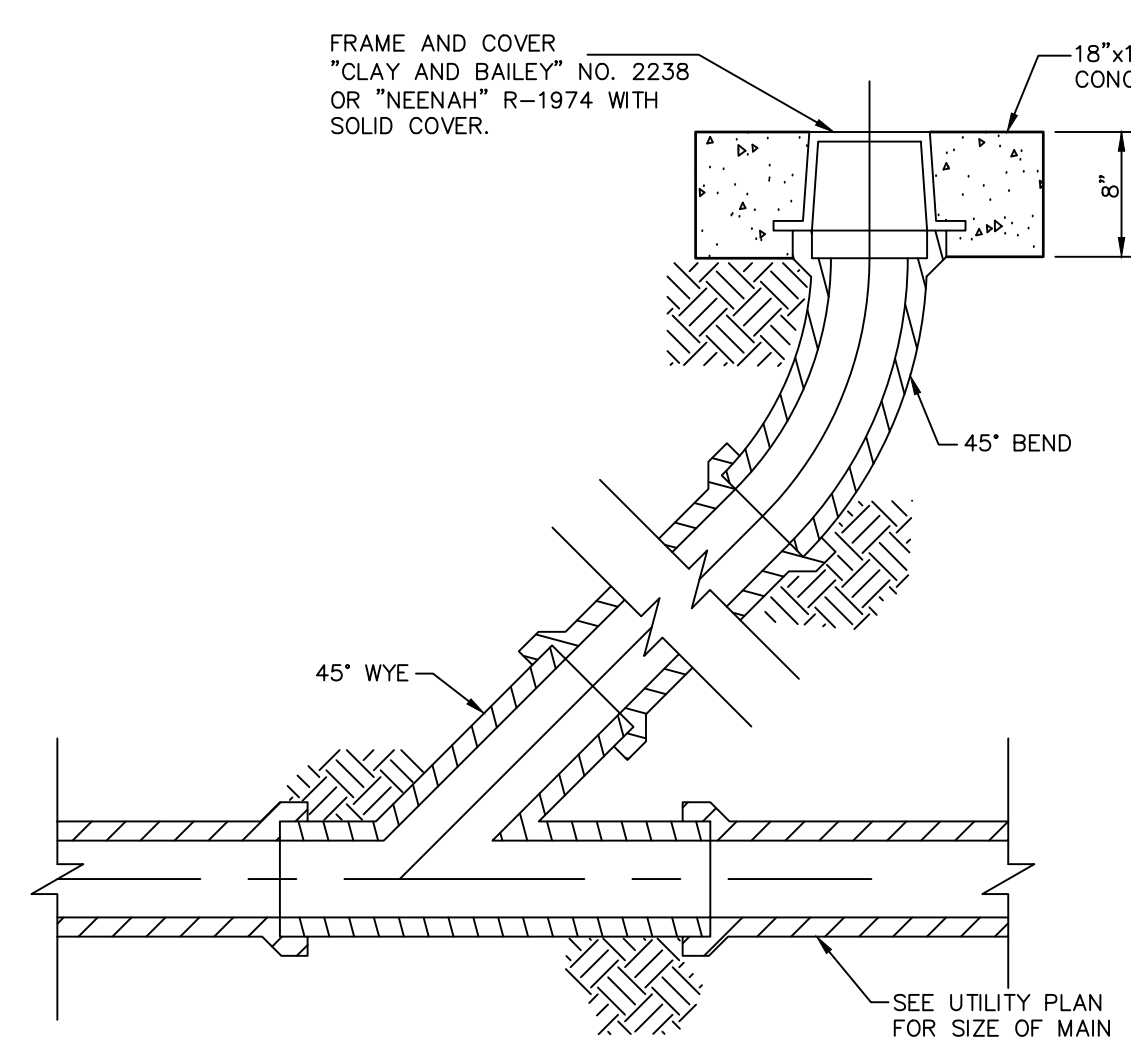
BID SET



NOTES:
 1) FOR ALL DEPTHS OF COVER LESS THAN TWO (2) FEET, PIPE MUST BE SCHEDULE 40 PVC. FOR DEPTHS OF COVER GREATER THAN TWO (2) FEET, FLEXIBLE PIPE MAY BE USED. REFER TO SPECIFICATIONS FOR ALLOWABLE PIPE TYPES.
 2) A WATER-TIGHT CONNECTION SHALL BE MAINTAINED WITH ANY TRANSITION FROM SCHEDULE 40 PVC PIPE TO ANY OTHER PIPE TYPE.
 3) THE DOWNSPOUT COLLECTOR DRAIN SHALL BE INSTALLED BEFORE THE DOWNSPOUTS ARE INSTALLED ON THE BUILDING. SITEMARK CONTRACTOR SHALL BE RESPONSIBLE FOR ALL WORK TO AND INCLUDING THE RODENT SCREEN. BUILDING CONTRACTOR SHALL BE RESPONSIBLE FOR THE CONNECTION AT THE POINT OF THE RODENT SCREEN.

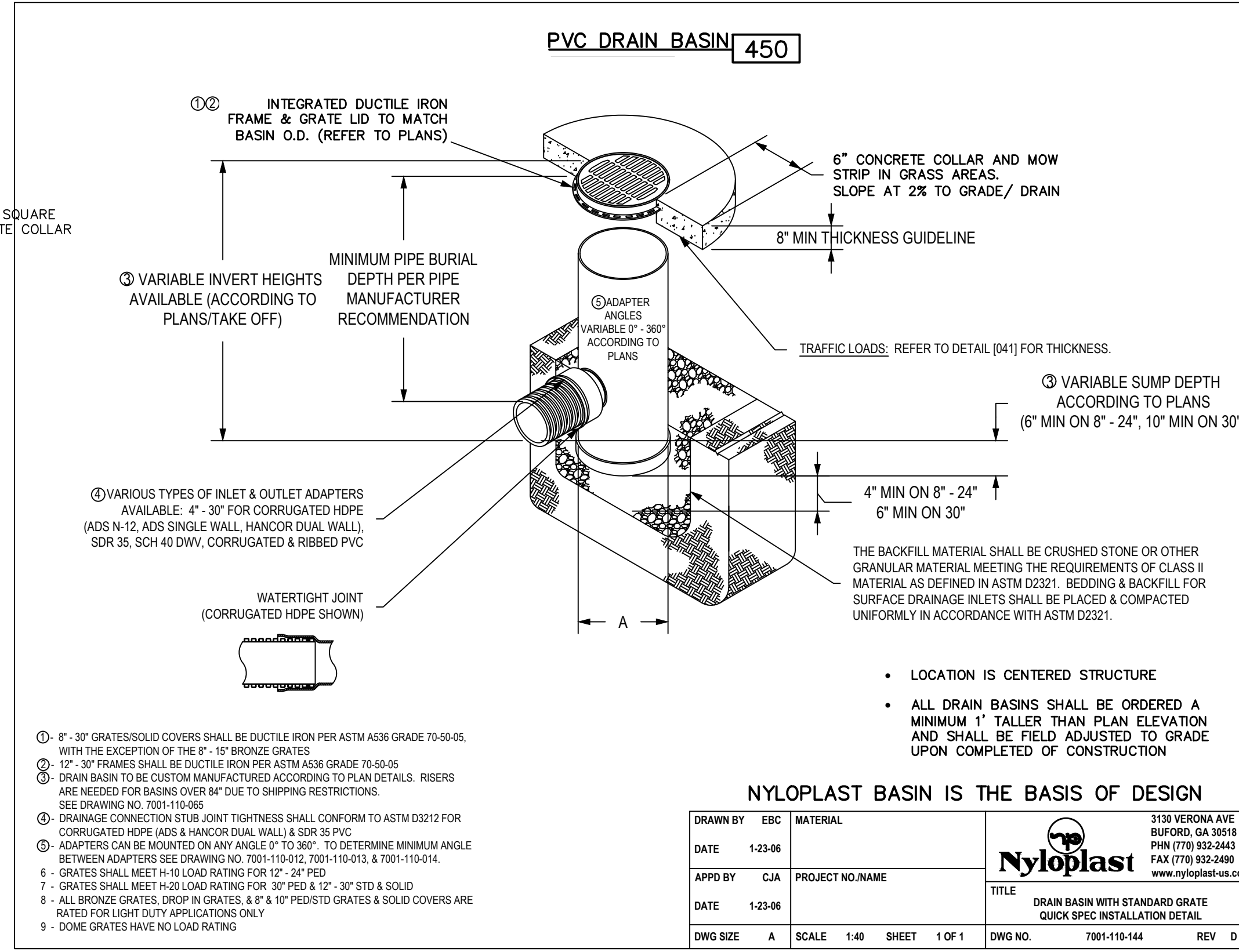
DOWNSPOUT COLLECTOR

433



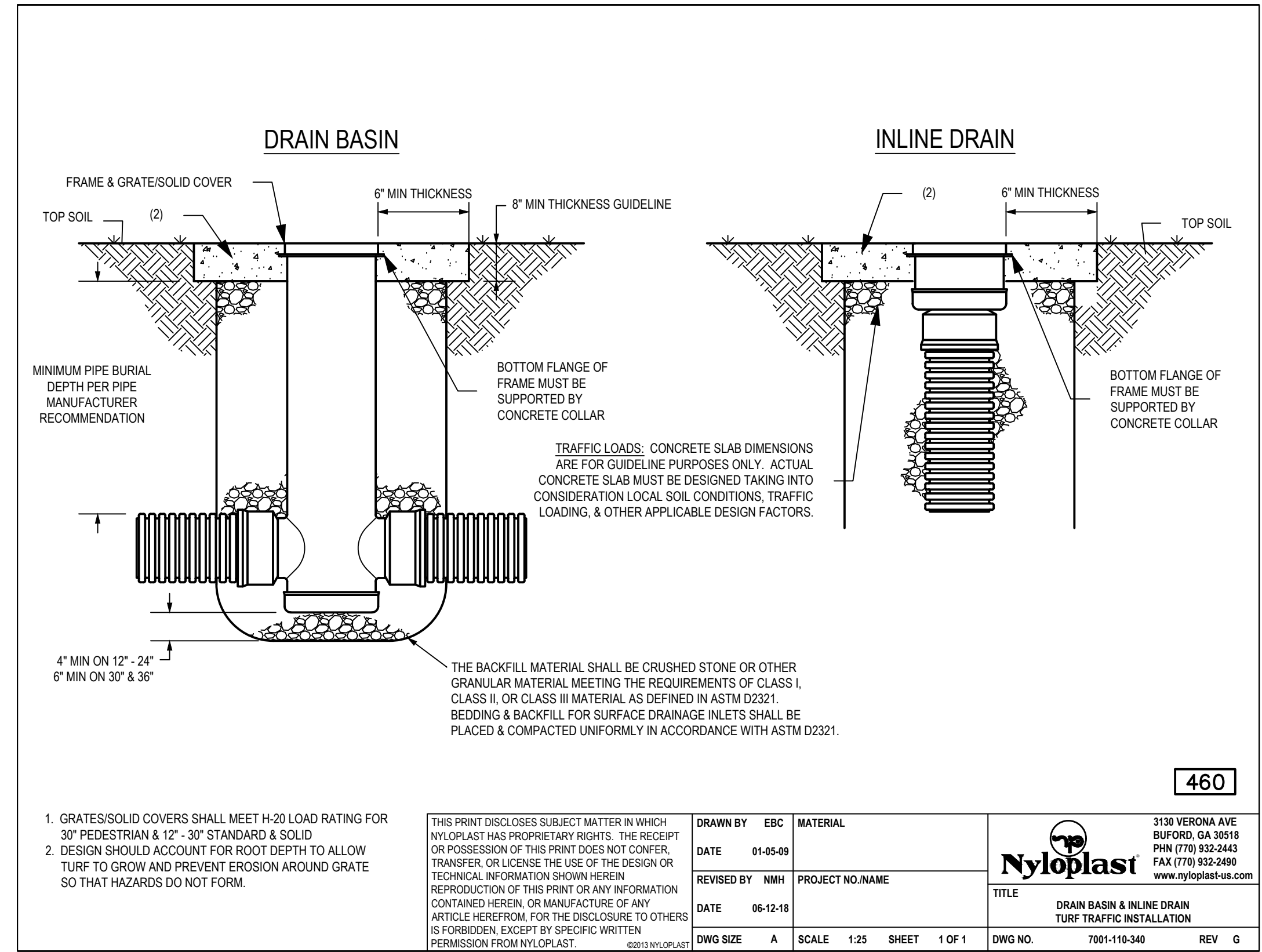
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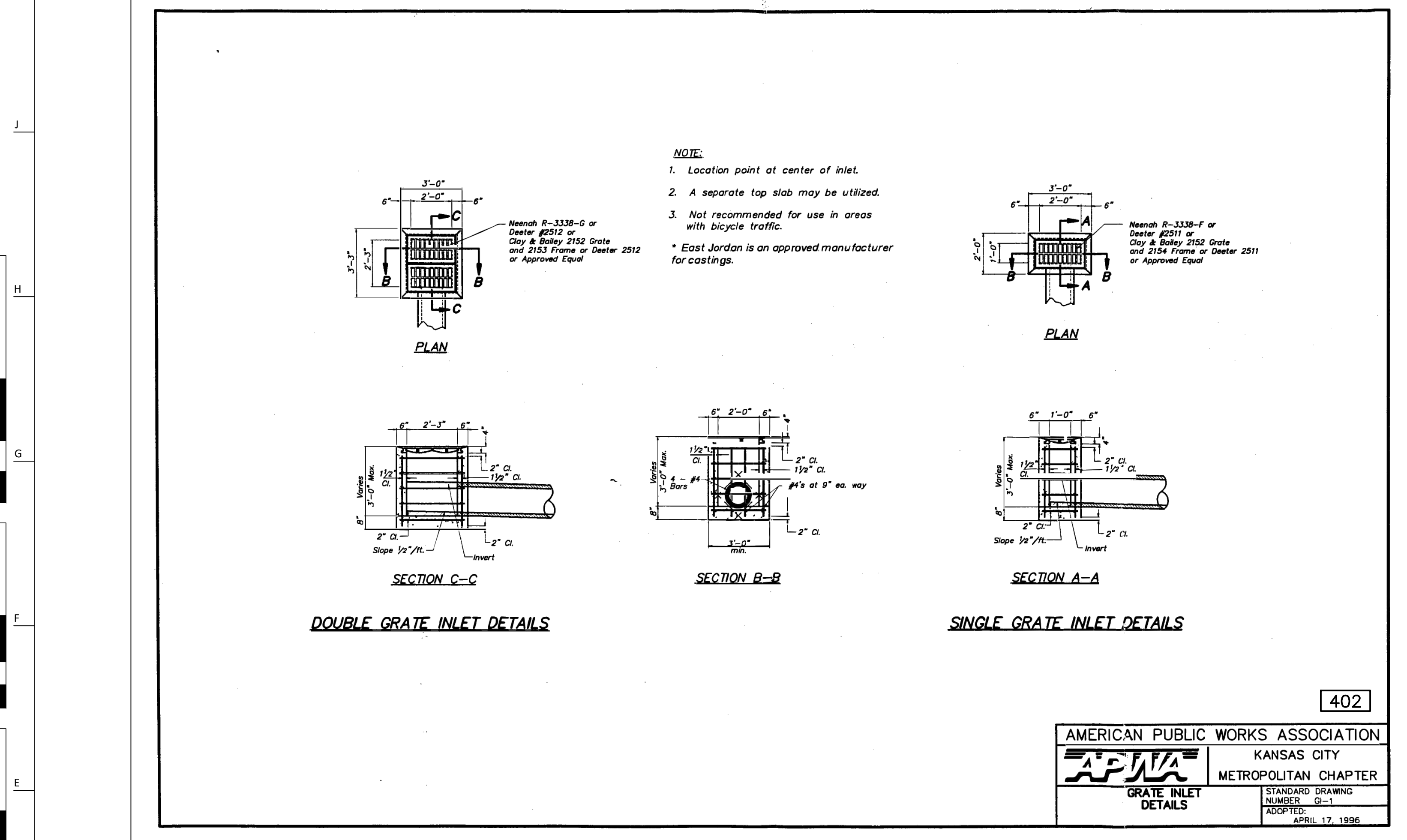


NYLOPLAST BASIN IS THE BASIS OF DESIGN

DRAWN BY: EBC	MATERIAL: NYLOPLAST	310 VERONA AVE BURLINGAME, CA 94010 PH: (770) 932-2460 FAX: (770) 932-2460 www.nyloplast.com
DATE: 1-24-09	PROJECT NO./NAME: DRAIN BASIN WITH STANDARD GRADE QUICK SPEC RETAILER DETAIL	TITLE: DRAIN BASIN WITH STANDARD GRADE QUICK SPEC RETAILER DETAIL
APP'D BY: CA	SCALE: 1/4" = 1'-0"	DWG NO.: 7001-119-144
DATE: 1-23-06	SHEET: 1 OF 1	REV: D

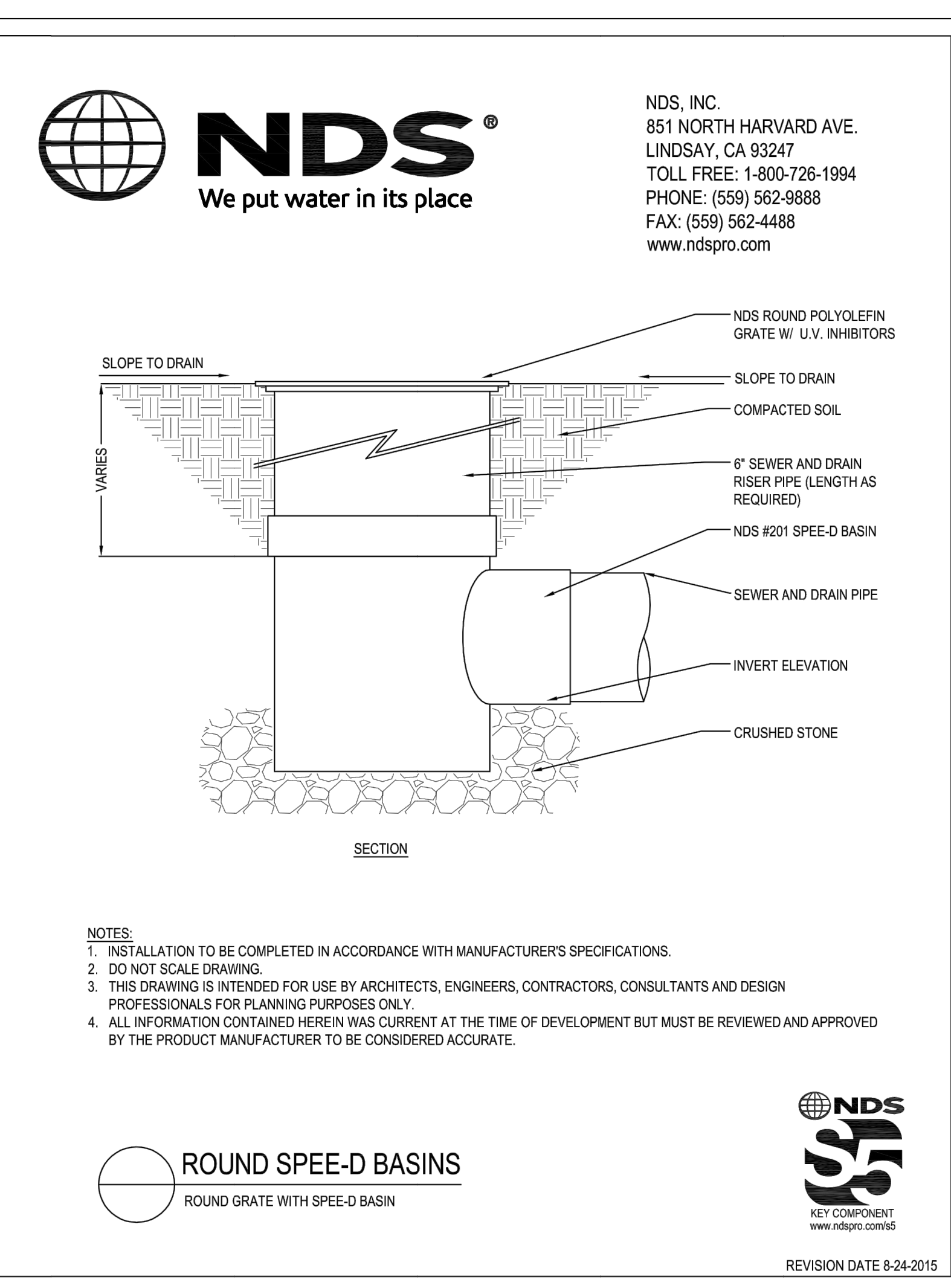


1. GRATES/SOLID COVERS SHALL MEET H-20 LOAD RATING FOR 30' PEDESTRIAN & 12" - 30" STANDARD & SOLID	THIS PRINT DISCLOSES SUBJECT MATTER IN WHICH NYLOPLAST HAS PROPRIETARY RIGHTS. THE RECEIPT OR POSSESSION OF THIS PRINT DOES NOT CONSTITUTE A TRANSFER OF LICENSE OR USE OF THE DESIGN OR TECHNICAL INFORMATION SHOWN HEREIN.	DRAWN BY: EBC	MATERIAL: NYLOPLAST	310 VERONA AVE BURLINGAME, CA 94010 PH: (770) 932-2460 FAX: (770) 932-2460 www.nyloplast.com
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		REVISED BY: NWH	SCALE: 1/2" = 1'-0"	DWG NO.: 7001-119-340
		DATE: 06-12-18	SHEET: 1 OF 1	REV: G



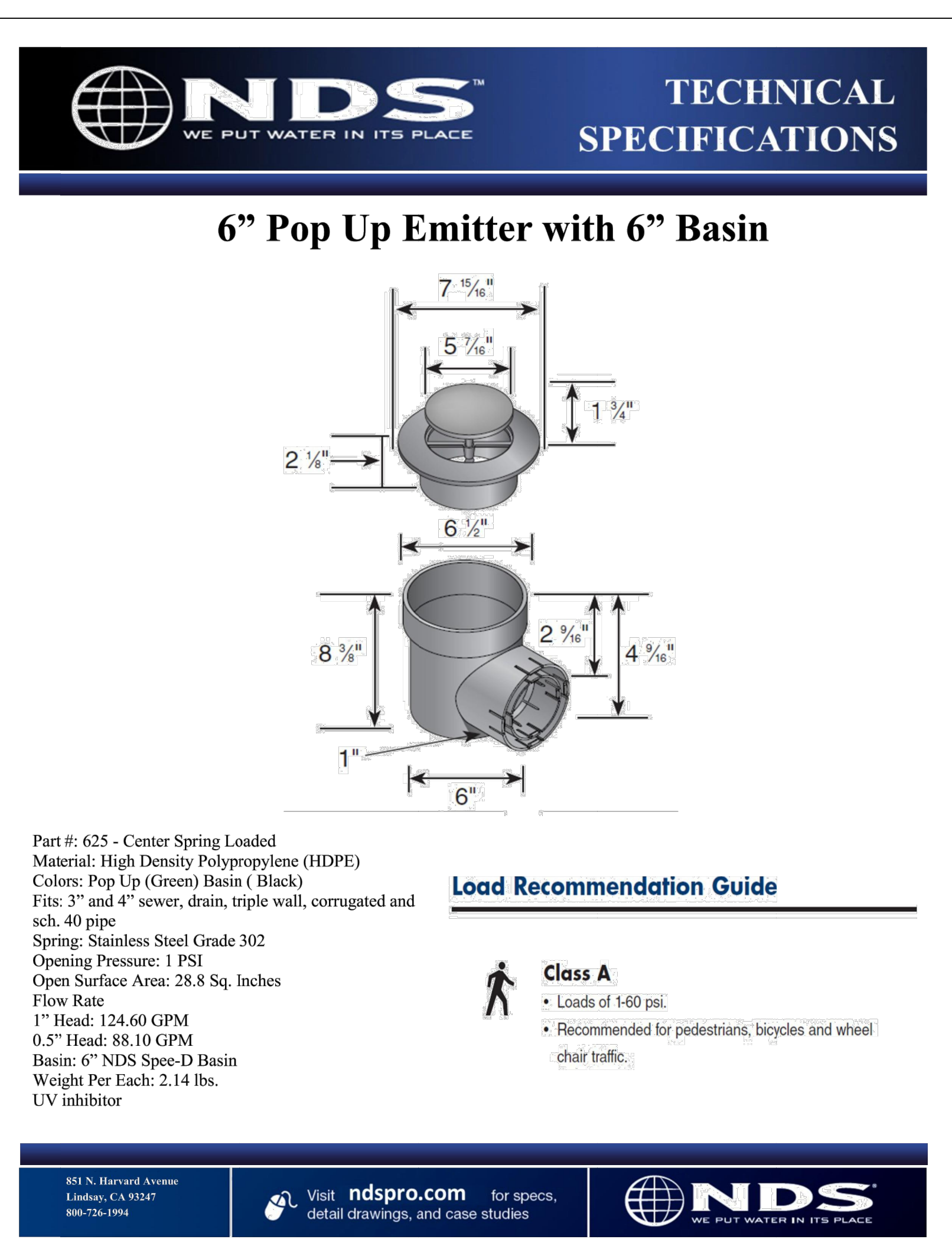
402

AMERICAN PUBLIC WORKS ASSOCIATION	
KANSAS CITY METROPOLITAN CHAPTER	
STANDARD DRAWING NUMBER: 02-1	ADOPTED: APRIL 17, 1996



ROUND SPEE-D BASINS

NDS, INC.
 851 NORTH HARVARD AVE.
 LINDSAY, CA 93247
 TOLL FREE: 1-800-726-1994
 PHONE: (559) 562-9888
 FAX: (559) 562-4488
 www.ndspro.com

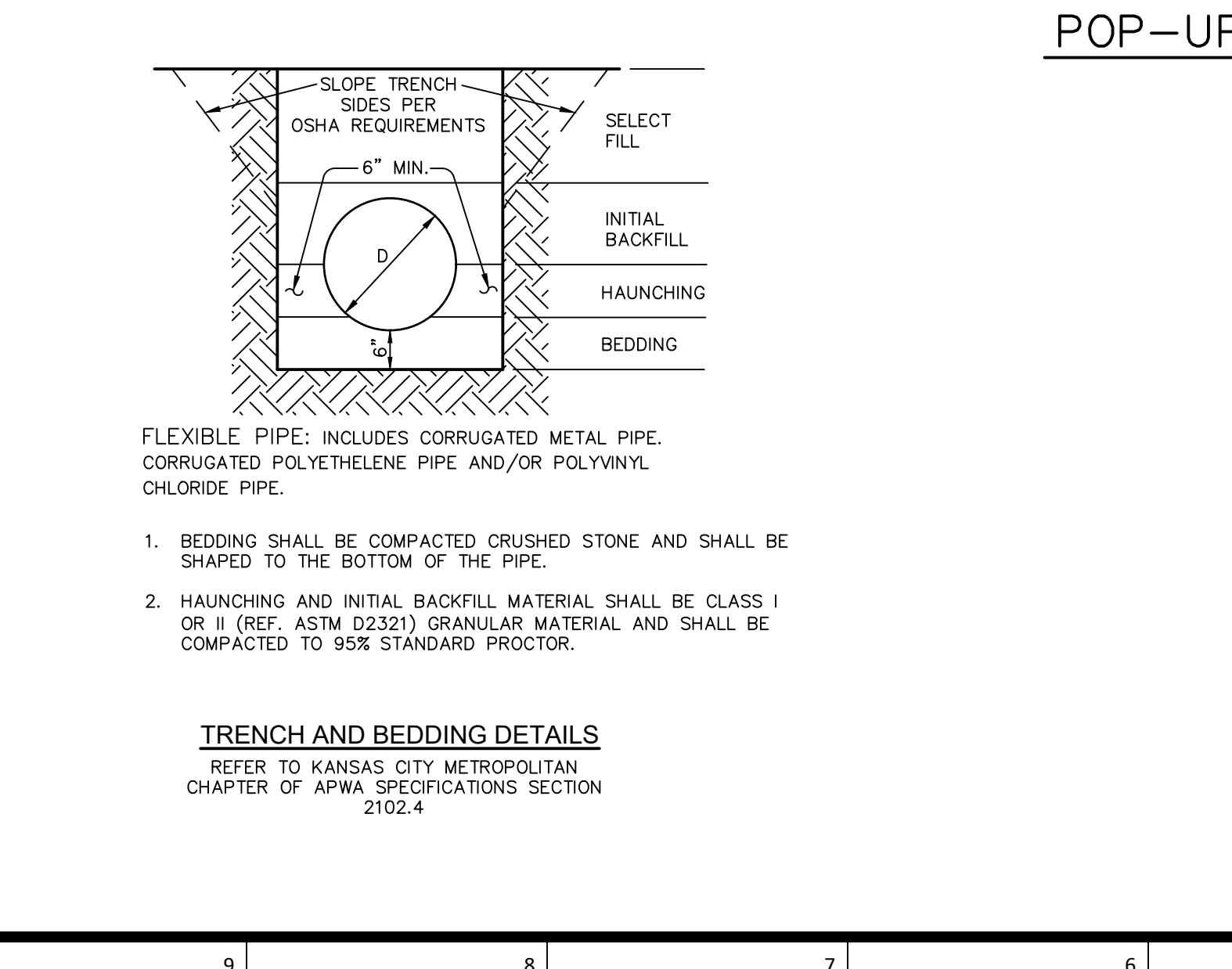


Load Recommendation Guide

Class A	• Loads of 160 psf
	• Recommended for pedestrians, bicycles and wheel chair traffic.

Part #: 625 - Center Spring Loaded
 Material: High Density Polypropylene (HDPE)
 Colors: Pop Up (Green) Basin (Black)
 Fits: 3" and 4" sewer, drain, triple wall, corrugated and sch. 40 pipe
 Spring: Stainless Steel Grade 302
 Opening Pressure: 1 PSI
 Open Surface Area: 28.8 Sq. Inches
 Flow Rate:
 1" Head: 124.60 GPM
 0.5" Head: 88.10 GPM
 Basin: 6" NDS Spee-D Basin
 Weight Per Each: 2.14 lbs.
 UV inhibitor

INLET NOTES
GENERAL
 1. ALL STORM SEWER STRUCTURES SHALL BE POURED IN PLACE.
 2. DO NOT SCALE THESE DRAWINGS FOR DIMENSIONS OR CLEARANCES. ANY QUESTIONS REGARDING DIMENSIONS SHALL BE BROUGHT TO THE ATTENTION OF THE ENGINEER PRIOR TO CONSTRUCTION.
 3. THE FIRST DIMENSION LISTED IN THE CONSTRUCTION NOTES IS THE "L" DIMENSION. THE SECOND DIMENSION IS THE "W" DIMENSION. THE CONCRETE THICKNESS AND REINFORCEMENT SHOWN IS FOR BOXES WITH ("L" + "H") AND ("W" + "H") LESS THEN OR EQUAL TO 20. FOR BOXES WITH EITHER OF THESE CALCULATIONS GREATER THAN 20, A SPECIAL DESIGN IS REQUIRED. PRECASTER SHALL PROVIDE DESIGN CALCULATIONS FOR DEEP STRUCTURES TO ENGINEER PRIOR TO CONSTRUCTING BOX.
CONCRETE
 4. CONCRETE USED IN THIS WORK SHALL BE CLASS "A" CONCRETE (AE) THROUGHOUT, AND SHALL MEET THE REQUIREMENTS OF THE KANSAS CITY METROPOLITAN CHAPTER OF THE APWA TECHNICAL SPECIFICATIONS.
 5. CONCRETE CONSTRUCTION SHALL MEET THE APPLICABLE REQUIREMENTS OF STANDARD SPECIFICATIONS FOR MCB, LATEST EDITION, EXCEPT AS MODIFIED IN THE APWA TECHNICAL SPECIFICATIONS.
 6. INLET FLOORS SHALL BE SHAPED WITH NON-REINFORCED CONCRETE INVERTS TO PROVIDE SMOOTH FLOW.
 7. BEVEL ALL EXPOSED EDGES WITH 3/4" TRIANGULAR MOLDING.
 8. 8" SOLID CONCRETE BLOCK OR BRICK MAY BE USED IN WALLS IN LIEU OF POURED CONCRETE WHERE NEITHER "L" + "H" NOR "W" + "H" (IN FEET) EXCEED FOURTEEN. BLOCK OR BRICK MAY BE USED IN ANY BOX WHERE "H" IS 5' OR LESS.
 9. ALL CRUSHED STONE USED AS AGGREGATE FOR CONCRETE CONSTRUCTION SHALL BE OBTAINED FROM QUARRIES AND BEDS DESIGNATED BY THE MISSOURI DEPARTMENT OF TRANSPORTATION AS MEETING DURABILITY REQUIREMENTS OF KANSAS CITY METROPOLITAN CHAPTER OF THE APWA TECHNICAL SPECIFICATIONS.
REINFORCING STEEL
 10. REINFORCING STEEL SHALL BE NEW BILLET, MINIMUM GRADE 60 AS PER ASTM A615, AND SHALL BE BENT COLD.
 11. ALL DIMENSIONS RELATIVE TO REINFORCING STEEL ARE TO CENTERLINE OF BARS. 2" CLEARANCE SHALL BE PROVIDED THROUGHOUT UNLESS NOTED OTHERWISE. TOLERANCE OF +/- 1/8" SHALL BE PERMITTED.
 12. ALL LAP SPICES NOT SHOWN SHALL BE A MINIMUM OF 40 BAR DIAMETERS IN LENGTH.
 13. ALL REINFORCING STEEL SHALL BE SUPPORTED ON FABRICATED STEEL BAR SUPPORTS @ 3'-0" MAXIMUM SPACING.
 14. ALL DOWELS SHALL BE ACCURATELY PLACED AND SECURELY TIED IN PLACE PRIOR TO PLACEMENT OF BOTTOM SLAB CONCRETE. STICKING OF DOWELS INTO FRESH OR PARTIALLY HARDENED CONCRETE WILL NOT BE ACCEPTABLE.
CONSTRUCTION
 15. THE BOTTOM SLAB SHALL BE AT LEAST 24 HOURS OLD BEFORE PLACING SIDEWALL CONCRETE. ALL SIDEWALL FORMS SHALL REMAIN IN PLACE A MINIMUM OF 24 HOURS AFTER SIDEWALLS ARE POURED BEFORE REMOVAL, AND AFTER REMOVAL SHALL BE IMMEDIATELY TREATED WITH MEMBRANE CURING COMPOUND.
 16. MATERIAL SELECTION AND COMPACTION REQUIREMENTS FOR BACKFILL AROUND STRUCTURES SHALL BE AS SPECIFIED IN THE KANSAS CITY METROPOLITAN CHAPTER OF THE APWA TECHNICAL SPECIFICATIONS.



POP-UP EMITTER

434

1. BEDDING SHALL BE COMPACTED CRUSHED STONE AND SHALL BE SHAPED TO THE BOTTOM OF THE PIPE.
 2. HAUNCHING AND INITIAL BACKFILL MATERIAL SHALL BE CLASS I OR II (REF. ASTM D2321) GRANULAR MATERIAL AND SHALL BE COMPACTED TO 95% STANDARD PROCTOR.
TRENCH AND BEDDING DETAILS
 REFER TO KANSAS CITY METROPOLITAN CHAPTER OF APWA SPECIFICATIONS SECTION 2102.4

PROJ. NO. C20_049E DSN: DDW DAVID D. WOOD
 CN: 0496DET.DWG DWN: NUN ENGINEER
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 k@kveeng.com | www.kveeng.com

KAW VALLEY ENGINEERING
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Lee's Summit R7 District Athletics Facilities

Lee's Summit High School
 400 SE Blue Parkway
 Lee's Summit, MO 64063

owner:
 Lee's Summit R-7 School District
 301 NE Tudor Road
 Lee's Summit, MO 64086

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 Kansas City, MO 64111
 816.931.6555 voice
 www.gould-evans.com

structural engineer:
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 4338 Bellevue
 Kansas City, MO 64111
 816.531.4144

civil engineer:
 Kaw Valley Engineering
 14700 West 114th Terrace
 Lenexa, KS 66215
 913.485.0318

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DAVID D. WOOD
 MISSOURI PROFESSIONAL ENGINEER
 NUMBER: PE-2011037427
 EXPIRES: 12/31/21

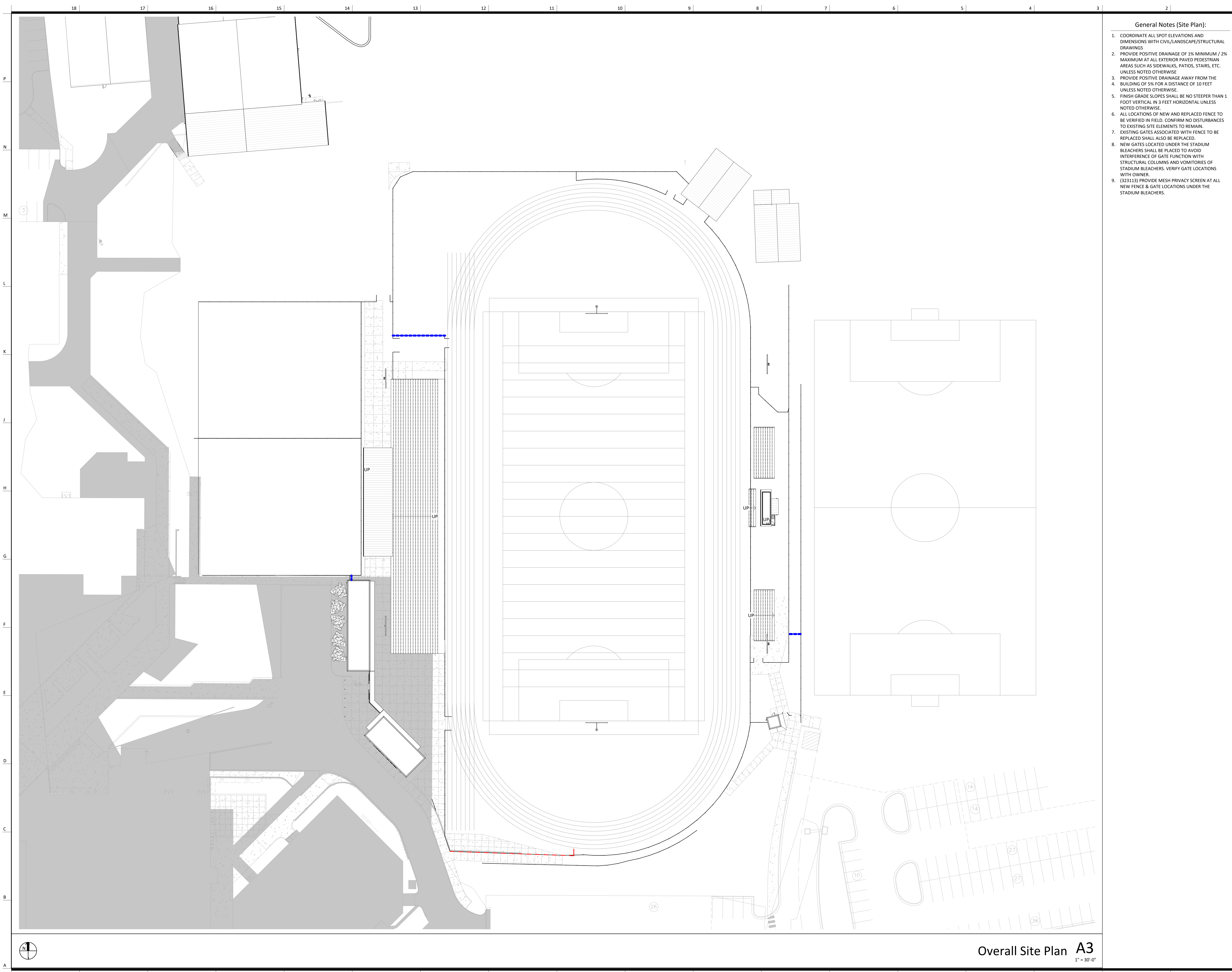
Kaw Valley Engineering, Inc.
 Missouri Certificate of Authority: 000842
 David Wood Date: 09/28/2020
 Engineer License No. PE-2011037427

REVISIONS

Number	DESCRIPTION	DATE

PROJECT NO: 0119-0100
 DATE: SEPTEMBER 28, 2020

STORM DETAILS
H-C690
BID SET



General Notes (Site Plan):

- COORDINATE ALL SPOT ELEVATIONS AND DIMENSIONS WITH CIVIL/LANDSCAPE/STRUCTURAL DRAWINGS
- PROVIDE POSITIVE DRAINAGE OF 1% MINIMUM / 2% MAXIMUM AT ALL EXTERIOR PAVED PEDESTRIAN AREAS SUCH AS SIDEWALKS, PATIOS, STAIRS, ETC. UNLESS NOTED OTHERWISE
- PROVIDE POSITIVE DRAINAGE AWAY FROM THE BUILDING OF 5% FOR A DISTANCE OF 10 FEET UNLESS NOTED OTHERWISE.
- FINISH GRADE SLOPES SHALL BE NO STEEPER THAN 1 FOOT VERTICAL IN 3 FEET HORIZONTAL UNLESS NOTED OTHERWISE.
- ALL LOCATIONS OF NEW AND REPLACED FENCE TO BE VERIFIED IN FIELD. CONFIRM NO DISTURBANCES TO EXISTING SITE ELEMENTS TO REMAIN.
- EXISTING GATES ASSOCIATED WITH FENCE TO BE REPLACED SHALL ALSO BE REPLACED.
- NEW GATES LOCATED UNDER THE STADIUM BLEACHERS SHALL BE PLACED TO AVOID INTERFERENCE OF GATE FUNCTION WITH STRUCTURAL COLUMNS AND VOMITORIES OF STADIUM BLEACHERS. VERIFY GATE LOCATIONS WITH OWNER.
- PROVIDE MESH PRIVACY SCREEN AT ALL NEW FENCE & GATE LOCATIONS UNDER THE STADIUM BLEACHERS.

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**Lee's Summit R7 District
Athletics Facilities**

Lee's Summit High School
400 SW Blue Parkway
Lee's Summit, MO 64063

owner:
Lee's Summit R7 School District
301 NE Tudor Road
Lee's Summit, MO 64086

architect:
Gould Evans
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structural engineer:
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4338 Bellevue Avenue
Kansas City, MO 64111
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civil engineer:
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14700 West 134th Terrace
Lenexa, KS 66215
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Architectural Corporation
Missouri License No. 2018022591 Date: 09/28/2020
Jay Browning
Architect License No. A-2009027279

REVISIONS

Number	DESCRIPTION	DATE

PROJECT NO: 0119-0101
DATE: September 28, 2020

Architectural Site Plan
H-AS002

BID SET

Overall Site Plan **A3**
1" = 30'-0"

General Notes (Site Plan):

- COORDINATE ALL SPOT ELEVATIONS AND DIMENSIONS WITH CIVIL/LANDSCAPE/STRUCTURAL DRAWINGS
- PROVIDE POSITIVE DRAINAGE OF 1% MINIMUM / 2% MAXIMUM AT ALL EXTERIOR PAVED PEDESTRIAN AREAS SUCH AS SIDEWALKS, PATIOS, STAIRS, ETC. UNLESS NOTED OTHERWISE
- PROVIDE POSITIVE DRAINAGE AWAY FROM THE BUILDING OF 5% FOR A DISTANCE OF 10 FEET UNLESS NOTED OTHERWISE.
- FINISH GRADE SLOPES SHALL BE NO STEEPER THAN 1 FOOT VERTICAL IN 3 FEET HORIZONTAL UNLESS NOTED OTHERWISE.
- ALL LOCATIONS OF NEW AND REPLACED FENCE TO BE VERIFIED IN FIELD. CONFIRM NO DISTURBANCES TO EXISTING SITE ELEMENTS TO REMAIN.
- EXISTING GATES ASSOCIATED WITH FENCE TO BE REPLACED SHALL ALSO BE REPLACED.
- NEW GATES LOCATED UNDER THE STADIUM BLEACHERS SHALL BE PLACED TO AVOID INTERFERENCE OF GATE FUNCTION WITH STRUCTURAL COLUMNS AND VOMITORIES OF STADIUM BLEACHERS. VERIFY GATE LOCATIONS WITH OWNER.
- (323113) PROVIDE MESH PRIVACY SCREEN AT ALL NEW FENCE & GATE LOCATIONS UNDER THE STADIUM BLEACHERS.

Fencing Types

Mark	Type Comments
BCL-4	(323113) 4'H BLACK VINYL COATED CHAIN LINK FENCE & GATES
BCL-6	(323113) 6'H BLACK VINYL COATED CHAIN LINK FENCE & GATES
CL-ETR	CHAIN LINK FENCE & GATES - EXISTING TO REMAIN

VERIFY IN FIELD - LENGTH AND LOCATIONS OF NEW FENCE

Lee's Summit R7 District
Athletics Facilities

Lee's Summit High School
400 SW Blue Parkway
Lee's Summit, MO 64063

owner:
Lee's Summit R7 School District
301 NE Tudor Road
Lee's Summit, MO 64086

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Architectural Corporation
Jay Browning
Missouri License No. 2018022591
Date: 09/28/2020
Architect License No. A-2009027279

REVISIONS

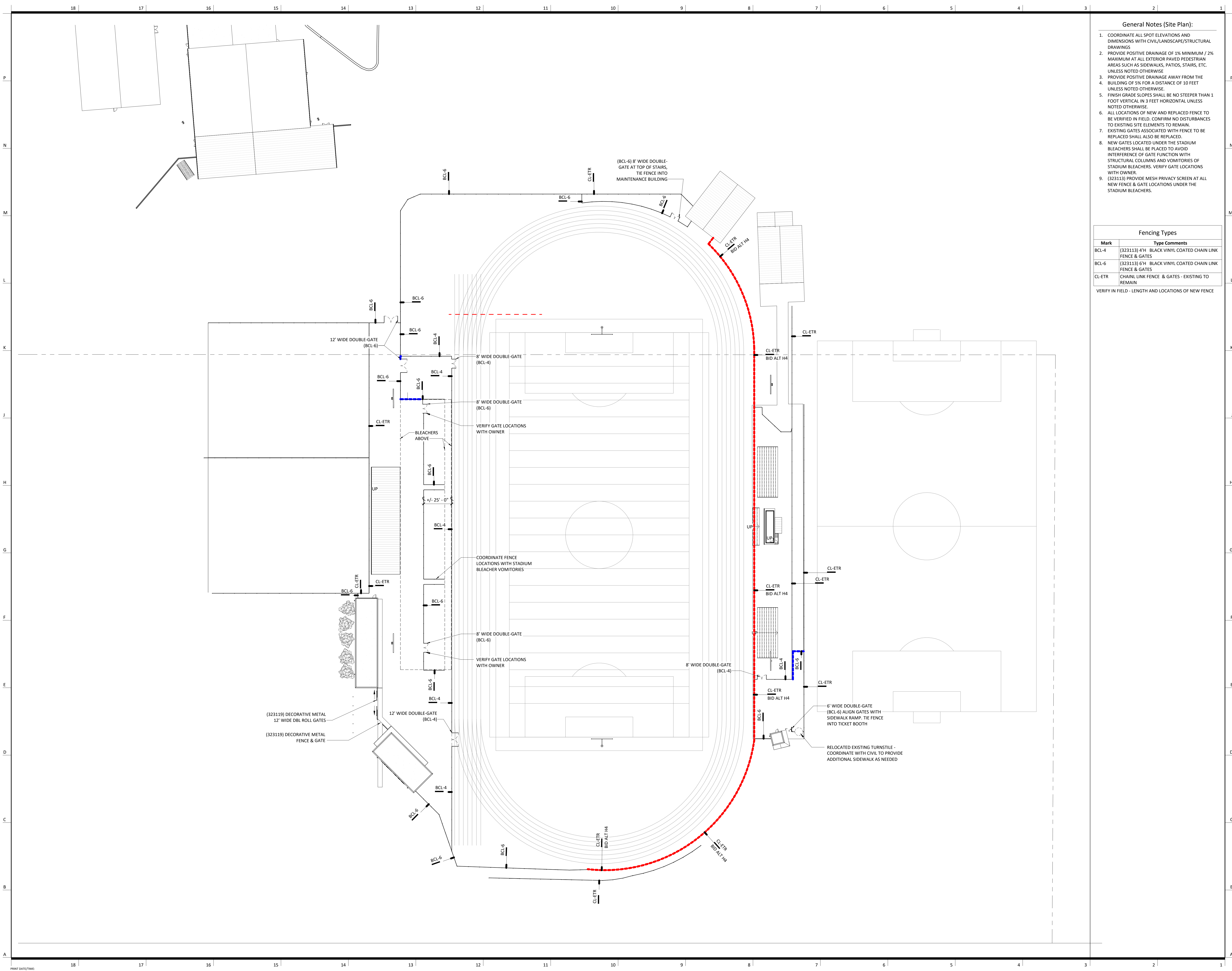
Number	DESCRIPTION	DATE
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PROJECT NO: 0119-0101
DATE: September 28, 2020

Fencing and Hardscape
Plans

H-AS201

BID SET



GENERAL NOTES - STRUCTURAL

1. General Information

- A. The contractor shall verify dimensions and conditions before construction and notify the engineer of any discrepancies, inconsistencies, or difficulties affecting the work before proceeding.
- B. The contractor shall coordinate all disciplines, verifying size and location of all openings, whether shown on structural drawings or not, as called for on architectural, mechanical, or electrical drawings. In the case of work in an existing building the contractor shall scan existing structure to locate all rebar in the area of the new construction using ground penetrating radar and notify the engineer of record for review prior to coring/cutting. Conflicts, inconsistencies, or other difficulties affecting structural work shall be called to the architect or engineer's attention for direction before proceeding.
- C. All design and construction work for this project shall conform to the requirements of the following governing design codes:
 - 1.) International Building Code (IBC 2018) as amended by the city of Lee's Summit, MO
 - 2.) Minimum Design Loads for Buildings and Other Structures (ASCE7-16)
 - 3.) Specification for Structural Steel Buildings (AISC 360-16)
 - Member Design Basis is Allowable Stress Design (ASD)
 - Connection Design Basis is Allowable Stress Design (ASD)
 - 4.) Structural Welding Code (AWS D1.4:2017)
 - 5.) Building Code Requirements for Structural Concrete (ACI 318-14)
 - 6.) Building Code Requirements for Masonry Structures (ACI 530-13/TMS 402-16)
 - 7.) North American Specification for the Design of Cold-Formed Steel Structural Members (AISI S100-16)
 - 8.) National Design Specification (NDS) for Wood Construction with 2018 Supplements (ANSI/APA NDS-2018)
 - 9.) Special Design Provisions for Wind and Seismic (AWC SDPWS-2015)
- D. These drawings are for this specific project and no other use is authorized.

2. Structural Load Design Criteria

- A. Floor Live = 100 psf
- B. Roof Live = 20 psf
- C. Snow: $P_g = 20psf$, $P_f = 14psf$, $I_s = 1.0$, $C_e = 1.0$, $C_t = 1.0$, Drift per ASCE/SEI 7
- D. Lateral Loads:
 - 1.) Wind: $V = 109$ mph, Exposure B
 - Occupancy (Risk) Category II, $I_w = 1.0$, $G_Cp = +1.0$, $I_1 = 1.0$
 - Design wind pressures to be used for the design of exterior component and cladding materials on the designated zones of wall and roof surfaces shall be per section 30.7 and Table 30.7-2 of ASCE/SEI 7.
 - Tabulated pressures shall be multiplied by effective area reduction factors, exposure adjustment factors, and topographic factors where applicable
- 2.) Seismic: $S_s = 0.114$, $S_1 = 0.087$
 - Occupancy (Risk) Category II, $I_e = 1.0$
 - Site Classification D, $S_{ds} = 0.121$, $S_{d1} = 0.107$
 - Seismic Design Category B
 - Basic Seismic Force-resisting System: Bearing Wall Systems - Ordinary reinforced masonry shear walls
 - Equivalent Lateral Force Procedure
 - $R = 2$, $V = 0.0655W$; $\Omega = 2$; $C_d = 1$
- E. This project is designed to resist the most critical effects resulting from the load combinations of section 1605.3 of the International Building Code.

3. Concrete

- A. All concrete for foundations (walls, grade beams, footings and piers) shall develop minimum ultimate compressive design strength of 3500 psi in 28 days, but not less than 500 pounds of cement shall be used per cubic yard of concrete regardless of strengths obtained, not over 6 gallons of water per 100 pounds of cement and not over 4 inches of slump.
- B. All concrete for interior flatwork **(with floor covering)** shall develop minimum ultimate compressive design strength of 4000 psi in 28 days, but not less than 525 pounds of cement shall be used per cubic yard of concrete regardless of strengths obtained, not over 5.75 gallons of water per 100 pounds of cement and not over 4 inches of slump. Concrete mix shop drawing shall contain testing data proving concrete design mix shrinkage is less than 0.034% at 28 days when tested according to ASTM C157 (air drying method only).
- C. All concrete for interior flatwork **(with floor covering)** shall develop minimum ultimate compressive design strength of 4000 psi in 28 days, but not less than 540 pounds of cement shall be used per cubic yard of concrete regardless of strengths obtained, not over 5.40 gallons of water per 100 pounds of cement and not over 4 inches of slump. Concrete mix shop drawing shall contain testing data proving concrete design mix shrinkage is less than 0.034% at 28 days when tested according to ASTM C157 (air drying method only).
- D. All concrete for exterior flatwork shall have a minimum design compressive strength of 4500 psi in 28 days, with not less than 560 pounds of cement per cubic yard of concrete, not over 5 gallons of water per 100 pounds of cement, with 6% +/- 1% air entrainment, and a maximum of 4 inches of slump.
- F. The preceding minimum mix requirements may have water-reducing admixtures conforming to ASTM C494 added to the mix at manufacturer's dosage rates for improved workability.
- G. The preceding minimum mix requirements may have up to 15% maximum of the cement content replaced with an approved ASTM C618 Class C fly ash, provided the total minimum cementitious content is not reduced.
- H. Combined aggregate (coarse plus fine) for all concrete shall be well graded from coarses to finest with no more than 18 percent and not less than 8 percent retained on an individual sieve, except that less than 8 percent may be retained on coarsest sieve and on No. 50 and finer sieves. Submit this gradation report with the concrete mix design shop drawings.
- I. All interior concrete slabs on grade shall be placed over 15 mil, Class A Vapor Barrier per ASTM E1745 with less than 0.01 perms, tested after mandatory conditioning. All joints shall be lapped and sealed per manufacturer's recommendations. All penetrations, as well as damaged vapor barrier material shall also be sealed per manufacturer's recommendation prior to concrete placement. Install barrier per manufacturer recommended details at all discontinuous edges (at interior corners, exterior edge of slab, etc.) to ensure terms of warranty are followed. The vapor barrier shall be placed over free-draining granular material as prescribed by the project soils report.
- J. All concrete is reinforced concrete unless specifically called out as unreinforced. Reinforce all concrete not otherwise shown with same steel as in similar sections or areas. Any details not shown shall be detailed per ACI 315 and meet requirements of ACI 318, current editions.
- K. Control joints in dirt formed slab to be as shown on plans. Where not shown, limit controlled areas to not more than 144 square feet, or 12 feet on any side. Slab panel side ratio shall not exceed 1:12 to 1.
- L. Contractor shall verify that all concrete inserts, reinforcing and embedded items are correctly located and rigidly secured prior to concrete placement.
- M. Construction joints in beams, slabs, and grade beams shall occur at midspan (middle third) unless noted otherwise. Provide 2 x 4 horizontal keys at construction joints for shear transfer.
- N. No aluminum items shall be embedded in any concrete.

4. Reinforcing Steel

- A. All reinforcing steel shall conform to the requirements of ASTM A615 or A706 grade 60 steel. Welded plain wire fabric shall be supplied in sheets and conform to the requirements of ASTM A185.
- B. Clear minimum coverage of concrete over reinforcing steel shall be as follows:
 - 1.) Concrete placed against earth: 3"
 - 2.) Formed concrete against earth: 2"
 - 3.) Slabs: 1-1/2"
 - 4.) Beams or Columns: 2"
 - 5.) Other: 2"
- C. All coverage shall be nominal bar diameter minimum.
- D. All dowels shall be the same size and spacing as adjoining main bars (splice lap 48 bar diameters or 24" minimum unless noted otherwise).
- D. At corners of all walls, beams, and grade beams supply corner bars (minimum 2" 0" in each direction or 48 bar diameters) in outside face of wall, matching size and spacing of horizontal bars. Where there are no vertical bars in outside face of wall, supply 3 - #4 vertical support bars for corner bars.
- E. Bars marked continuous and all vertical steel shall be lapped 48 bar diameters (2'-0" minimum) at splices and embedments, unless shown otherwise. Splice top bars near midspan and splice bottom bars over supports, unless noted otherwise.
- F. At all holes in concrete walls and slabs, add 2 - #5 bars (opening dimension plus 96 diameters long) at each of four sides and add 2 - #5 x 5'-0" diagonally at each of four corners of hole. Openings in 8" thick walls are reinforced similar, but with 1 - #5 instead of 2 - #5, respectively.
- G. Unless otherwise covered on architectural plans or specifications, vertical control joints in concrete wall shall be spaced at a maximum of 20'-0" on center and coordinated with the architect. Every other horizontal wall reinforcing bar shall be discontinued at control joints except heavy top and bottom bars unless noted otherwise. Provide base seal waterstop style number 772 (by Greenstreak Inc. or approved equal) on dirt face side of wall at all walls below grade.
- H. Accessories shall be as specified in latest edition of the ACI Detailing Handbook and the concrete Reinforcing Steel Institute Design Handbook. Maximum accessory spacing shall be 4'-0" on center, and all accessories on exposed surfaces are to have plastic coated feet.
 - I. All slabs and stairs not shown otherwise shall be 6" thick with #4 bars at 12" on center each way. All exterior porches and stoops not otherwise detailed may be constructed in any standard manner, solid or hollow, but must be reinforced with #4 bars at 12" on center each way minimum. Porches shall be dowelled to adjacent walls or grade beams with #4 bars at 12" on center, hooked or embedded 48 diameters into both members. Slope porches 1/8" per foot for drainage unless noted otherwise.
 - J. Allow 1/2 ton of reinforcing bars #4 or larger to be used as directed in the field for special conditions by the engineer of record (labor for placing same to be included).

5. Structural Steel

- A. All structural steel beams and columns shall be ASTM A992, grade 50 steel and all miscellaneous steel shall be ASTM A36, grade 36 steel, unless otherwise specified where plans call for ASTM A572, grade 50. Hollow Structural Sections (HSS) shall be ASTM A500, grade B. Fabrication and erection shall be in accordance with AISC 303-05 "Code of Standard Practice for Steel Buildings and Bridges" in the 13th Edition of the AISC Steel Construction Manual.
- B. All welding shall conform to the recommendations of the AWS.
- C. All exterior steel and connections, and brack relief angles shall be hot-dip galvanized.
- D. All bolts not otherwise specified shall be 3/4" diameter high strength (ASTM A325-N). All bolts shall be fully pretensioned. All beam connections shall be designed per the AISC Manual of Steel Construction "Trapped Beam Connections" for the indicated reactions shown in the beam shear connection table on sheet H-S300; and, shall account for eccentricity when the bolt line is more than 2" from the center of the support.
- E. All connections must be two bolt minimum. Additional connection elements may not be specifically shown in the conceptual details in this set but may be required by the final connection design, such as stiffener plates, doubler plates, supplement/reinforcing plates or other connection material. Connection design and shop drawing preparation shall be completed under the direct supervision of a professional engineer licensed in the state the project is located and shop drawings and connection calculations shall bear his/her seal.
- E. All anchor bolts shall be 3/4" diameter, ASTM F1554, Grade 36 unless noted otherwise. Washers of minimum size and thickness for the given anchor diameter in Table 14-2 of the AISC Steel Construction Manual shall be provided at every column anchor bolt. Washers shall have a standard size hole for the anchor bolt. At braced frames washers shall be welded all around to the column base plate with 3/16" fillet weld.
- F. Design, fabrication and erection of all open-web bar joists shall comply with the recommendations of the Steel Joist Institute (SJI). Joists shall be designed to support loads given in the standard load tables of SJI Specs and Tables plus an additional point load of 200 lbs. on the top or bottom chord at any location without additional web reinforcing.
- G. All K-series joists shall bear 2-1/2" minimum on structural steel beams and be welded to the beams with 1/2" of 1/8" fillet weld each side (minimum).
- H. All K-series joists bearing on masonry walls shall have 6" x 3/8" x 6" bearing plates set in bond beams. Bearing plates shall be located not more than 1/2" from the face of the wall on the bearing side. Joists shall bear 4" minimum on bearing plates and be welded to beams or bearing plates with 1-1/2" of 1/8" fillet weld each side (minimum).
- I. All steel joists shall have horizontal bar or angle bridging per Steel Joist Institute Specifications. Provide rigid x-bridging in addition to and matching horizontal bridging where joists are discontinuous unless horizontal bridging is anchored to wall top and bottom. Joist sweep allowance shall comply with AISC Standard Practice.
- J. Steel joists shall be designed for uplift per Components & Cladding Roof Uplift Pressures Table on this sheet.
- K. All openings in steel joist roof to have 3x3x1/4 angle frame set between joists. Support mechanical equipment with 4x4x5/16 angles laid between joists framed to 4x4x5/16 angles (length equals mechanical unit dimension plus distance each end to next panel point) laid parallel to and welded to top and/or bottom cord of joists to distribute load to joist panel points.
- L. All steel joists shall have a midspan camber approximately equal to that recommended by the Steel Joist Institute Specifications.
- M. Design and installation of steel decking shall comply with the recommendations of the Steel Deck Institute (SDI). All decking shall be galvanized unless noted otherwise.
- N. Allow 1.0 tons structural steel to be used as specified in field for special conditions by the engineer of record. Cost for shop drawings, fabrication, delivery, detailing, and erection to be included. 50% of structural steel allowance shall be bid as miscellaneous galvanized angle and plate.

6. Post Installed Anchors

- A. Post-installed anchors shall be used only where specified on the drawings unless approved in writing by the engineer of record. See drawings for anchor diameter, spacing and embedment. Performance values of the anchors shall be obtained for specified products using appropriate design procedures and/or standards as required by the governing building code. Anchors installed in concrete shall have an ICC-ES Evaluation Service Report. Special inspection is required for all post installed anchors. The contractor shall coordinate an on-site meeting with the post installed anchor manufacturer field representative to educate the construction team on the anchor installation guidelines and requirements.
- B. Mechanical anchors used in cracked and uncracked concrete shall have been tested and qualified for use in accordance with ACI 308.2 and ICC-ES AC109. All anchors shall be installed per the anchor manufacturer's written instructions.
- C. Adhesive anchors used in cracked and uncracked concrete shall have been tested and qualified for use in accordance with ICC-ES AC308. All anchors shall be installed per the anchor manufacturer's written instructions.
- D. Mechanical anchors used in solid grouted masonry shall have been tested and qualified for use in accordance with ICC-ES AC201. All anchors shall be installed per the anchor manufacturer's written instructions.
- E. Adhesive anchors used in solid grouted masonry shall have been tested and qualified for use in accordance with ICC-ES AC208. All anchors shall be installed per the anchor manufacturer's written instructions.
- F. Anchors used in hollow concrete masonry shall have been tested and qualified in accordance with ICC-ES AC108 or ICC-ES AC208 as appropriate. All anchors shall be installed per the anchor manufacturer's written instructions with appropriate screen tubes used for adhesives.

7. Foundations

- A. The soil investigation was prepared by _____, the report number is _____, and the telephone number is _____.
- B. Structural foundations consist of a network of straight shaft drilled piers (caissons) established on _____ end bearing. Each pier hole shall be probed to a depth of _____ below pier bottom and observed by the project soils engineer for suitable bearing material.
- C. Spread foundations, grade beams, and retaining walls are designed to bear on engineering fill or undisturbed soil capable of safely sustaining _____ psf.
- D. Retaining walls are designed for an active lateral load of _____ pcf equivalent fluid pressure.
- E. Basement walls are designed for an at rest lateral load of _____ pcf equivalent fluid pressure. See General Note _____ for wall bracing requirements.
- F. Contractor shall provide for dewatering at excavations from their surface water or seepage.
- G. All foundation excavations shall be inspected by a qualified soil engineer, approved by the architect and/or structural engineer, prior to placement of steel or concrete. This inspection shall be at the owner's expense.
- H. All concrete in the structural portion retaining the backfill shall have attained its design strength prior to being backfilled.
- I. Moisture content in soils beneath building locations should not be allowed to change after footing excavations and after grading for slabs on grade are completed. If subgrade materials become desiccated or softened by water or other conditions, recompact materials to the density and water content specified for engineered fill. Do not place concrete on frozen ground.

8. Concrete Masonry Units

- A. Concrete block used in exterior walls or load bearing walls shall meet the requirements of ASTM C90 and have a minimum net compressive strength of 2850 psi and laid up using type N mortar such that f_m equals 2000 psi. Mortar shall be volume proportion based cement lime mortar. Proportioning shall be completed by box measure. Any block in contact with earth shall be normal weight units, laid using type "S" mortar and grouted solid.
- B. The contractor shall provide adequate temporary bracing for all masonry walls during construction.
- C. All concrete block shall have 9 gage (or larger) horizontal joint reinforcing (ladder or truss) per architectural drawings and specifications (16" maximum vertical spacing).
- D. Cavity wall construction shall be reinforced as designed for specific concrete block types. The horizontal joint reinforcing shall be of the ladder or truss style per specification and continuous between brick and block, as prescribed by the architectural drawings.
- E. Concrete block shall be reinforced as indicated on Sheet H-S202.
- F. Grout, where noted above, shall have a minimum design ultimate compressive strength of 2500 psi at 28 day test and 3/8" maximum aggregate size.
- G. Non-load bearing concrete block walls shall be isolated from adjacent structural elements with vertical 3/8" control joints and at the top of the wall with 1" air space or compressible material and support per architectural detail.
- H. Unless otherwise covered on architectural plans or specifications, vertical control joints in masonry construction shall be 3/8" wide, full height of wall. Joints shall be spaced at a maximum of 24'-0" on center and coordinated with the architect. All horizontal joint reinforcing shall be discontinuous at control joints in masonry. All bond beam horizontal reinforcing shall be continuous through control joints.
- I. Lintels over all openings up to 8'-0" wide in new and existing masonry walls not otherwise covered shall be one 6x3 1/2x5/16 angle for each 4" width of masonry. All exterior lintels to be galvanized.
- J. Walls shall be anchored top and bottom by dowels matching wall vertical reinforcing (unless noted otherwise) from floor slab bottom and bracing angles at the top, per details on the drawings.

9. Light Gage Metal Structural Framing

- A. All load bearing, light gage structural studs, track, and bridging shall be of the type, size, gage, and spacing as shown on the plans.
- B. All materials shall be 33,000 psi minimum yield, except studs of 16 gage or heavier shall have a minimum yield of 50,000 psi.
- C. All interior framing members. Splicing of axially loaded members is not permitted. Members shall be held firmly in place until properly fastened. Attachments of similar components shall be by welding, screw attachment, or bolting. Wire tying of components is not permitted.
- E. Tracks shall be securely anchored to floor and overhead members. Special anchorage requirements required for wind bracing shall be as shown on the plans.
- F. Prior to fabrication and/or erection, the contractor shall submit shop drawings complete with detail of erection, fabrication, attachments, anchorages, lintels, etc., for review by the architect/engineer.

10. Shop Drawing Review

- A. Bob D. Campbell and Company, Inc. will review the General Contractor's (GC) shop drawings and related submittals (as indicated below) with respect to the ability of the detailed work, when complete, to be a properly functioning integral element of the overall structural system designed by Bob D. Campbell and Company, Inc.
 - B. Prior to submittal of a shop drawing or any related material to Bob D. Campbell and Company, Inc. the GC shall:
 - 1.) Review each submission for conformance with the means, methods, techniques, sequences and operations of construction and safety precautions and programs incidental thereto, all of which are the sole responsibility of the GC.
 - 2.) Review and approve each submission.
 - 3.) Stamp each submission as approved.
- C. Bob D. Campbell and Company, Inc. shall assume that no submission comprises a variation unless the GC advises Bob D. Campbell and Company, Inc. with written documentation.
- D. Bob D. Campbell and Company, Inc. shall review shop drawings and related materials with comments provided that each submission has met the above requirements. Bob D. Campbell and Company, Inc. shall return without comment unreviewed material to the contractor without GC approval stamp.
- E. Shop drawings and related material (if any) required are indicated below. Should Bob D. Campbell and Company, Inc. require more than ten (10) working days to perform the review, Bob D. Campbell and Company, Inc. shall notify the GC.
 - 1.) Concrete mix designs and material certificates including admixtures and curing details.
 - 2.) Reinforcing steel shop drawings including erection drawings and bending details. Bar list will not be reviewed for correct quantities.
 - 3.) Elevations of all reinforced concrete masonry walls at a scale no larger than 3/8" = 1'-0" showing all required reinforcing.
 - 4.) Grout mix designs (for CMU).
 - 5.) Construction and control joint plans and/or elevations.
 - 6.) Structural steel shop drawings including erection drawings and piece details, include joist, decking and connector submittals. Include miscellaneous framing specified on the structural drawings, but do not submit framing specified on non-structural drawings for Bob D. Campbell and Company, Inc. review.
 - 7.) Structural steel connection design calculations submitted concurrently with structural steel shop drawings.
 - 8.) Miscellaneous anchors shown on the structural drawings.
 - 9.) Standard details and bracing information for light gage metal framing. Erection plans and details for light gage metal joists and lintels spanning more than 6'-0" shall be submitted. Standard wall framing need not be submitted.

11. Statement of Structural Special Inspections

- A. The structural design for this project is based on completion of special inspections during construction in accordance with section 1706 of the International Building Code. The owner shall employ one or more qualified special inspectors to provide the required special inspections.
- B. The special inspector shall be independent of the building official, owner, architect and structural engineer, and any other designated person.
- C. All discrepancies shall be brought to the immediate attention of the contractor and qualified for use in accordance with ICC-ES AC308. All anchors shall be installed per the anchor manufacturer's written instructions.
- D. The special inspector shall submit a final signed report stating that the work requiring special inspection was, to the best of the inspector's knowledge, in conformance with the approved plans and specifications and the applicable workmanship provisions of the building code.
- E. The following inspections and tests are required on the structural drawings, as defined within the referenced section or standard listed below. The General Contractor shall provide notification to the inspector when items requiring inspection are ready to be inspected and provide access for these inspections.
 1. Shop Fabrication – structural steel and steel bar joint per Section 1704.2.5 unless AISC certified shop.
 2. Shop Fabrication – pre-engineered wood trusses per Section 1704.2.5 unless TPI certified shop.
 3. Steel Construction per Section 1705.2 and the quality assurance requirements of AISC 341 Chapter J (as referenced by AISC 360)
 4. Cold-Formed Steel Deck per Section 1705.2.2 and the quality assurance requirements of SDI QALCC.
 5. Concrete Construction per Section 1705.3 and Table 1705.3
 - a. Reinforcing Steel Placement
 - b. Reinforcing Steel Welding
 - c. Cast in Place Anchors
 - d. Post Installed Anchors
 - e. Design Mix Verification
 - f. Concrete Sampling and Testing
 - g. Concrete Placement
 - h. Concrete Curing
 6. Masonry Construction per Section 1705.4 and the quality assurance requirements of TMS 402/AC108/ASCE5 and TMS602/AS30.1/ASCE7 [Level B]

12. Copyright and Disclaimer

- A. All drawings in the structural set (S-series drawings) are the copyrighted work of Bob D. Campbell and company, Inc. These drawings may not be photocopied, traced, or copies in any manner without the written permission of Bob D. Campbell and Company, Inc. Exception: Original drawings may be printed for distribution to the owner, architect, and general contractor for coordination, bidding, and construction. Subcontractors may not reproduce these drawings for any purpose or in any manner.
- B. I, Richard C. Crabtree, P.E., registered engineer and a representative of Bob D. Campbell and Company, Inc., do hereby accept professional responsibility as required by the professional registration laws of this state for the structural design drawings consisting of S-series drawings. I hereby disclaim responsibility for all other drawings in the construction document package, they being the responsibility of other design professionals whose seals and signed statements may appear elsewhere in the construction document package.

COMPONENTS & CLADDING ROOF UPLIFT PRESSURES					
BUILDING LOCATION	BUILDING / ROOF TYPE	DIMENSION 'ft'	ULTIMATE UPLIFT PRESSURE		
			ZONE 1	ZONE 2	ZONE 3
		[ft]	[psf]	[psf]	[psf]
Press Box Roof	Open Building, Monosloped Roof	4 ft	53.0	81.0	105.0
Other Structures	Enclosed Building, Flat Roof	3 ft	37.0	57.0	78.0

NOTES:
 1. REFER TO GENERAL NOTE 2.D. FOR WIND LOAD DESIGN CRITERIA
 2. WIND PRESSURES SHOWN ARE ULTIMATE (LRFD). FOR ASD WIND PRESSURES, MULTIPLY VALUES BY 0.6
 3. WIND PRESSURES SHOWN ARE BASED ON AN EFFECTIVE WIND AREA OF 50 SQUARE FEET

Lee's Summit R7 District
Athletics Facilities

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400 SE Blue Parkway
Lee's Summit, MO 64063

owner:
Lee's Summit R7 School District
301 NE Tudor Road
Lee's Summit, MO 64086

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structural engineer:
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civil engineer:
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913.485.0318

mechanical/electrical engineer:
Henderson Engineers
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Lenexa, KS 66214
816.742.5000

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Architectural Corporation
Missouri License No. 2018022991
Jane Doe Date: MM/DD/YYYY
Architect License No. A-0000000

REVISIONS

Number	DESCRIPTION	DATE

PROJECT NO: 0119-0101
DATE: September 28, 2020

General Notes

H-S001

BID SET

**Lee's Summit R7 District
Athletics Facilities**

Lee's Summit High School
400 SE Blue Parkway
Lee's Summit, MO 64063

owner:
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301 NE Tudor Road
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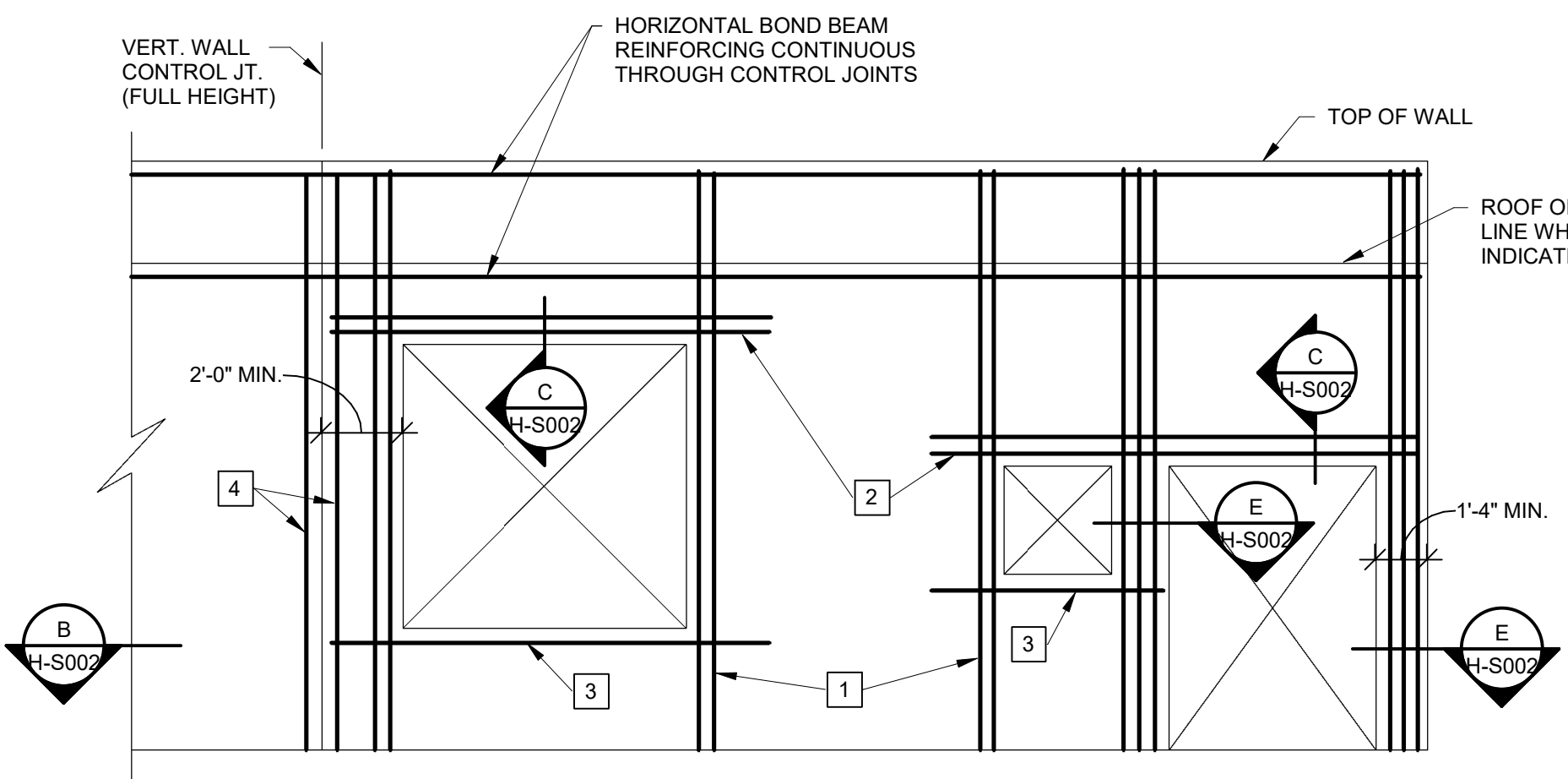
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18 | 17 | 16 | 15 | 14 | 13 | 12 | 11 | 10 | 9 | 8 | 7 | 6 | 5 | 4 | 3 | 2 | 1



TYPICAL CMU WALL REINFORCING AT OPENINGS

- LEGEND:**
- FULL HEIGHT VERTICAL BARS AS JAMB REINFORCING IN FIRST 2 CELLS ADJACENT TO OPENING. REINFORCE EACH CELL WITH SIZE & QUANTITY OF BAR TO MATCH WALL REINFORCING (1 BAR TYPICAL IN 8" WALLS AND 2 BARS TYPICAL IN 12" WALLS).
 - LINTEL REINFORCING PER SECTION C. EXTEND 2'-0" PAST EDGE OF OPENING ON EACH SIDE (TYPICAL).
 - 2-#5 CONTINUOUS HORIZONTAL BARS AS SILL REINFORCING IN 8" COURSE BELOW OPENING (U.N.O.), EXTEND 2'-0" PAST EDGE OF OPENING ON EACH SIDE (TYPICAL).
 - FULL HEIGHT VERTICAL BARS PER MASONRY VERTICAL REINFORCING SCHEDULE LOCATED IN END CELL AT EACH SIDE OF VERTICAL WALL CONTROL JOINTS.

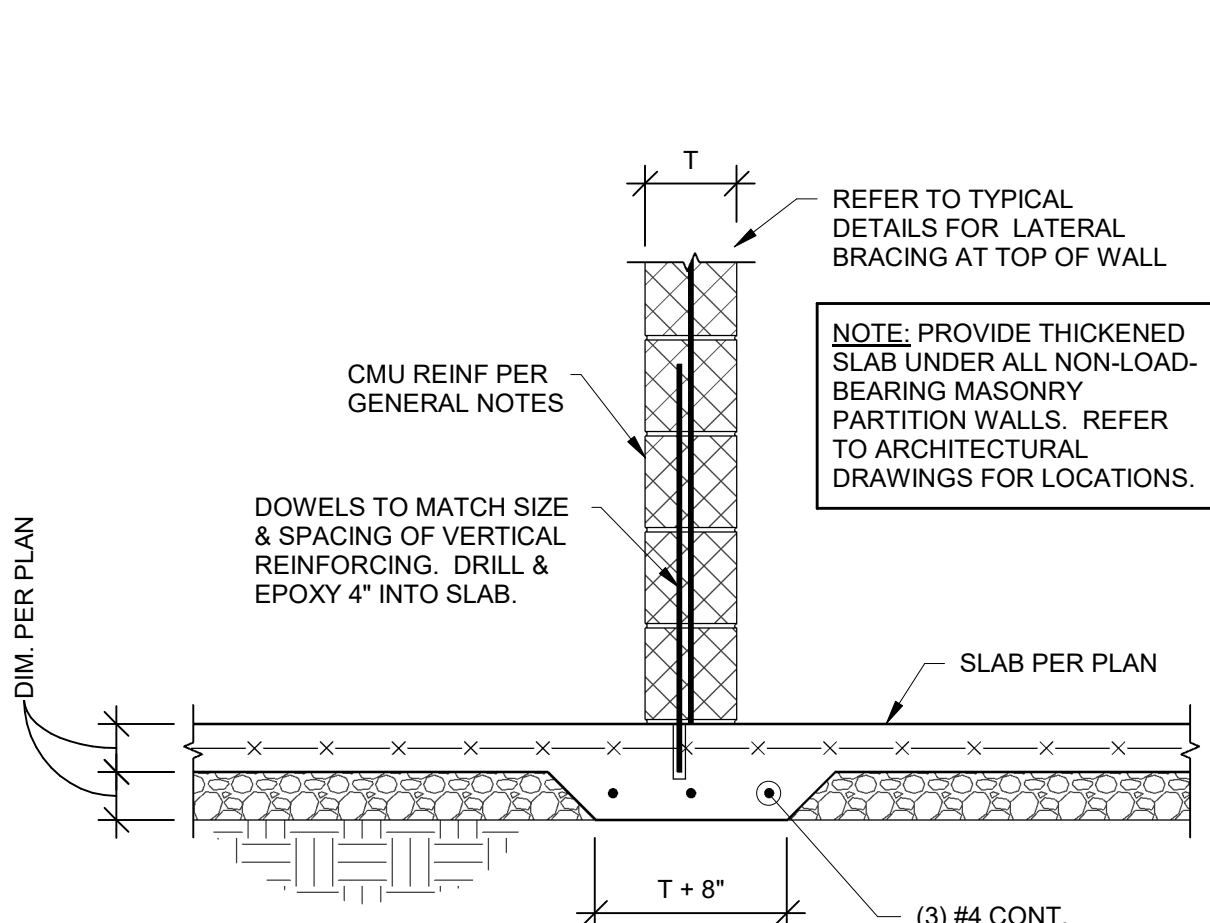
- GENERAL CRITERIA: (SECTION A CONTINUED):**
- VERTICAL REINFORCING BARS SHALL BE DOWELED TO FOUNDATION WITH A DOWEL OF MATCHING SIZE AND SPACING.
 - CONTRACTOR SHALL COORDINATE AND VERIFY OPENINGS IN MASONRY WALLS. OPENINGS SHALL BE DETAILED ON REINFORCING STEEL SHOP DRAWING ELEVATIONS.
 - VERTICAL CONTROL JOINTS IN MASONRY WALLS SHALL BE 3/8" WIDE, FULL HEIGHT OF WALL. JOINTS SHALL BE SPACED AT A MAXIMUM OF 24'-0" ON CENTER AND NOT LESS THAN 2'-0" FROM THE EDGE OF ANY OPENING. ALL HORIZONTAL JOINT REINFORCING SHALL BE DISCONTINUOUS AT CONTROL JOINTS. ALL BOND BEAM HORIZONTAL REINFORCING SHALL BE CONTINUOUS THROUGH CONTROL JOINTS. CONTRACTOR SHALL COORDINATE AND VERIFY ALL CONTROL JOINT LOCATIONS.

MASONRY REINFORCING SCHEDULE FOR LOAD BEARING MASONRY (CMU) WALLS			
WALL THICKNESS	LOCATION	VERTICAL REINF. (IN GROUDED CELLS)	HORIZ. REINF. (IN BOND BEAMS)
8"	ALL 8" WALLS (U.N.O.)	1-#5 @ 32"oc	PER SECTIONS
12"	ALL 12" WALLS (U.N.O.)	2-#5 @ 48"oc	RE: NOTE 3

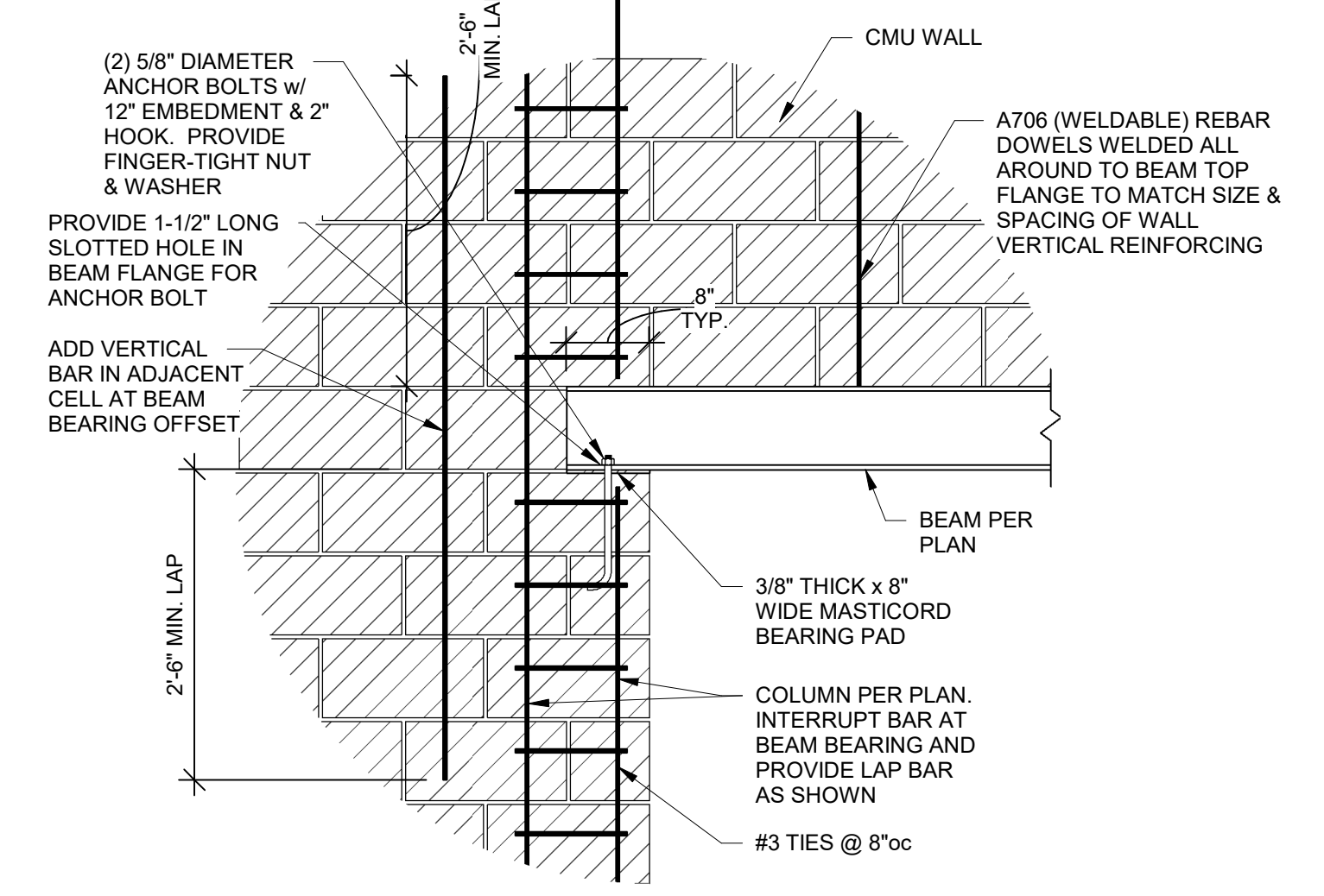
NOTES:

- IN ADDITION TO SPACING SHOWN IN SCHEDULE, VERTICAL REINFORCING SHALL BE PROVIDED IN GROUDED CELLS AT THE FOLLOWING LOCATIONS:
 - IN THE FIRST 2 CELLS ADJACENT TO EACH OPENING
 - IN THE END CELLS ON EACH SIDE OF VERTICAL CONTROL JOINTS
 - IN THE END CELLS OF EACH LENGTH OF WALL
 - AT EACH CORNER OF WALLS
 - UNDER BEAM BEARINGS PER 5/1-S005
- ALL MASONRY VOIDS AND BOND BEAMS TO BE GROUDED SHALL BE FREE OF DEBRIS AND MORTAR DROPPINGS PRIOR TO GROUDED. ANY MASONRY w/ DROPPINGS OR DEBRIS OBSERVED IN VOIDS SHALL BE REJECTED.
- IN 12" CMU, PROVIDE BOND BEAMS W/ (2) #6 HORIZ. IN 12" CMU @ ALL FLOOR AND ROOF LEVELS AND @ MID-HEIGHT BETWEEN LEVELS.

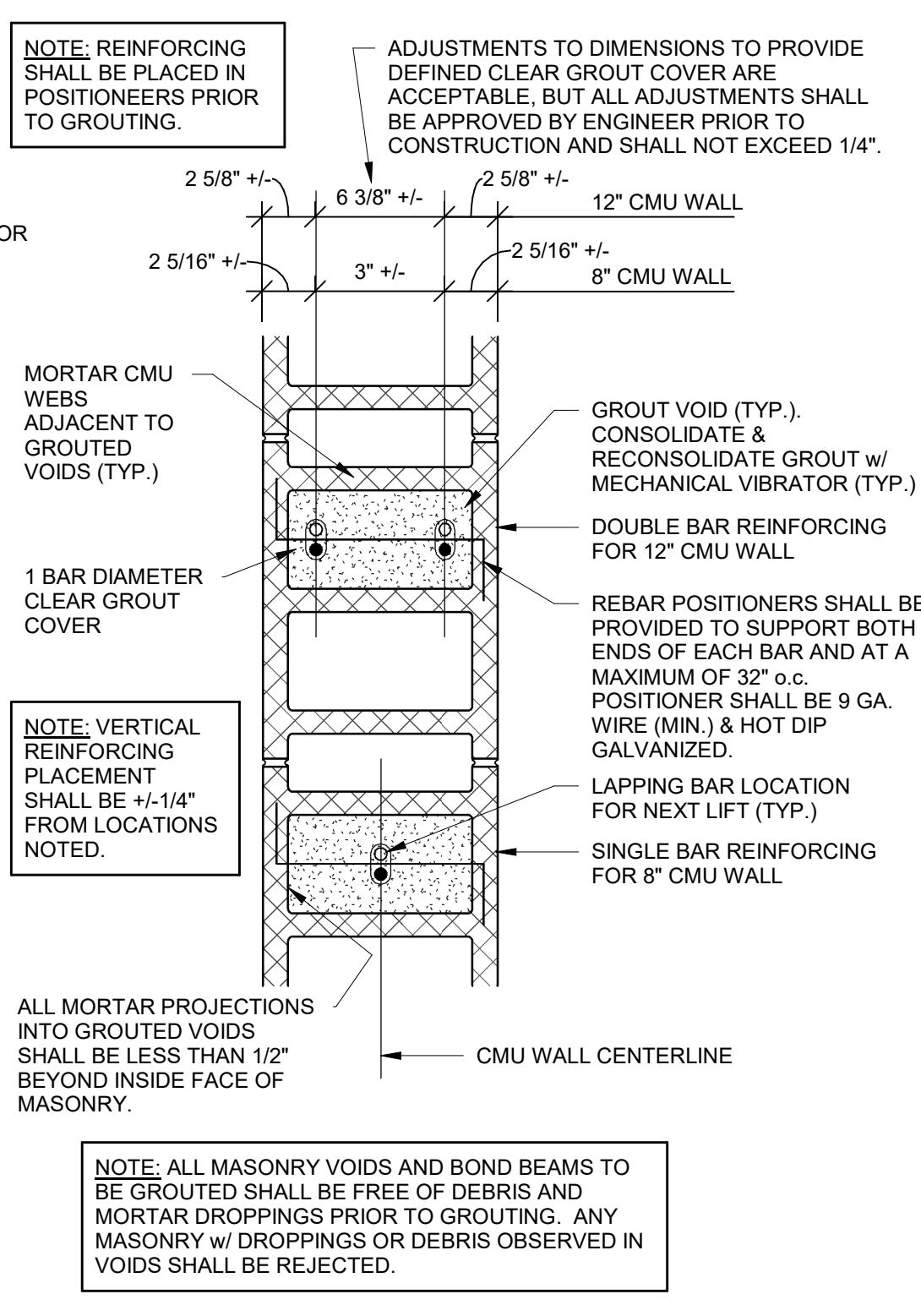
A CMU WALL ELEVATION
1 1/2" = 1'-0"



3 SECTION
3/4" = 1'-0"

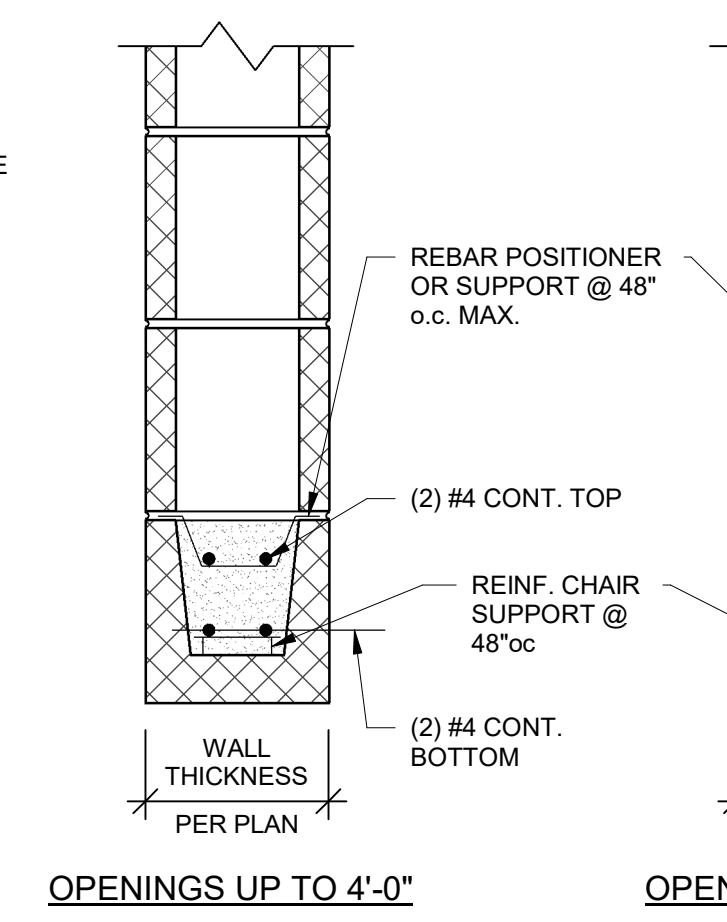


4 SECTION
3/4" = 1'-0"



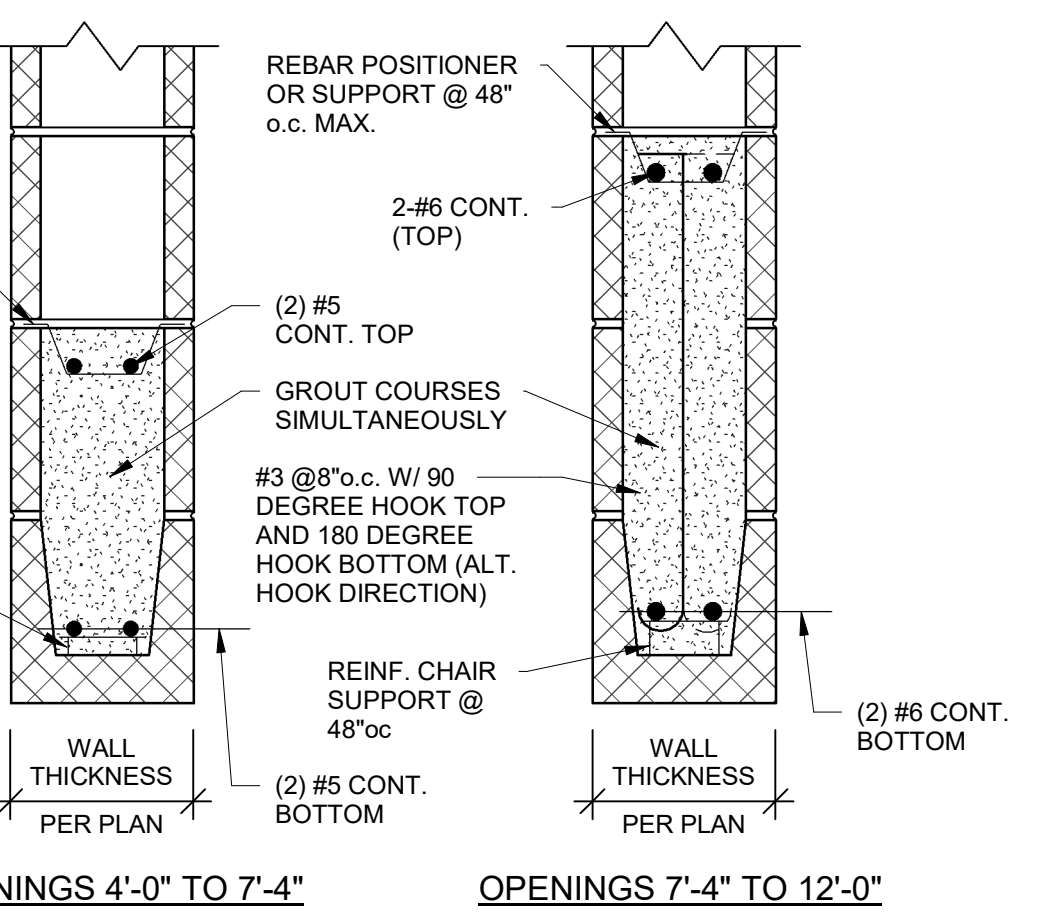
TYPICAL REBAR POSITIONING DETAIL

B SECTION
1 1/2" = 1'-0"



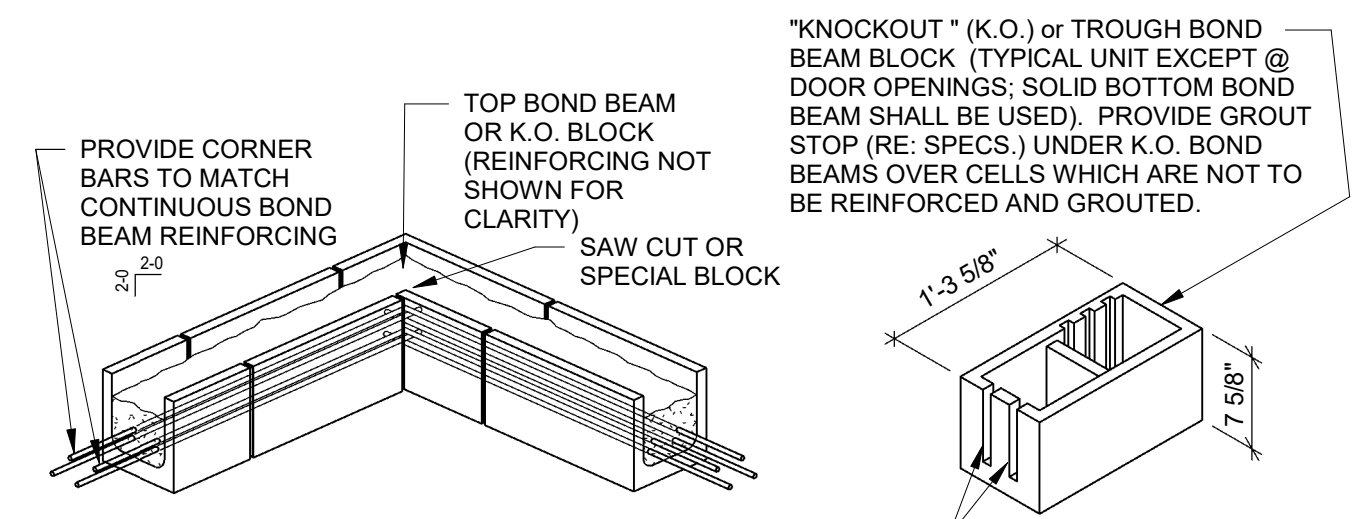
TYPICAL LINTELS AT ALL CMU WALLS (U.N.O.)

C SECTION
1 1/2" = 1'-0"



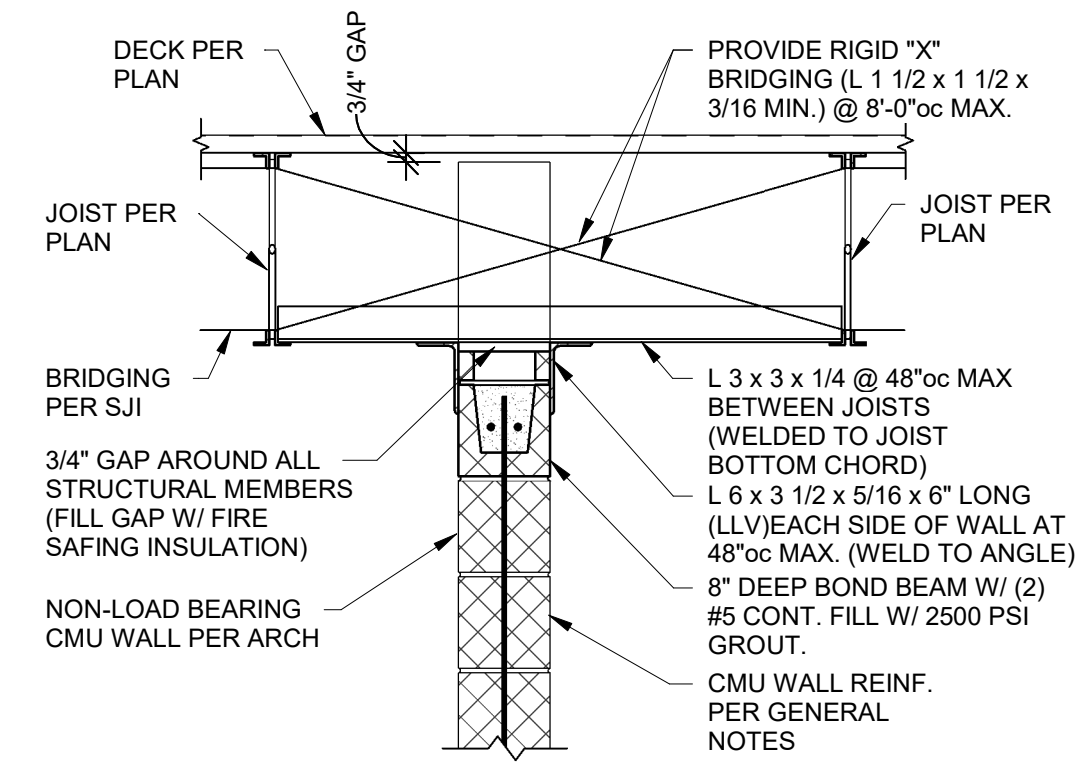
TYPICAL MASONRY COLUMN

E SECTION
1 1/2" = 1'-0"



TYPICAL BOND BEAM DETAIL AT CORNER OF CMU WALL

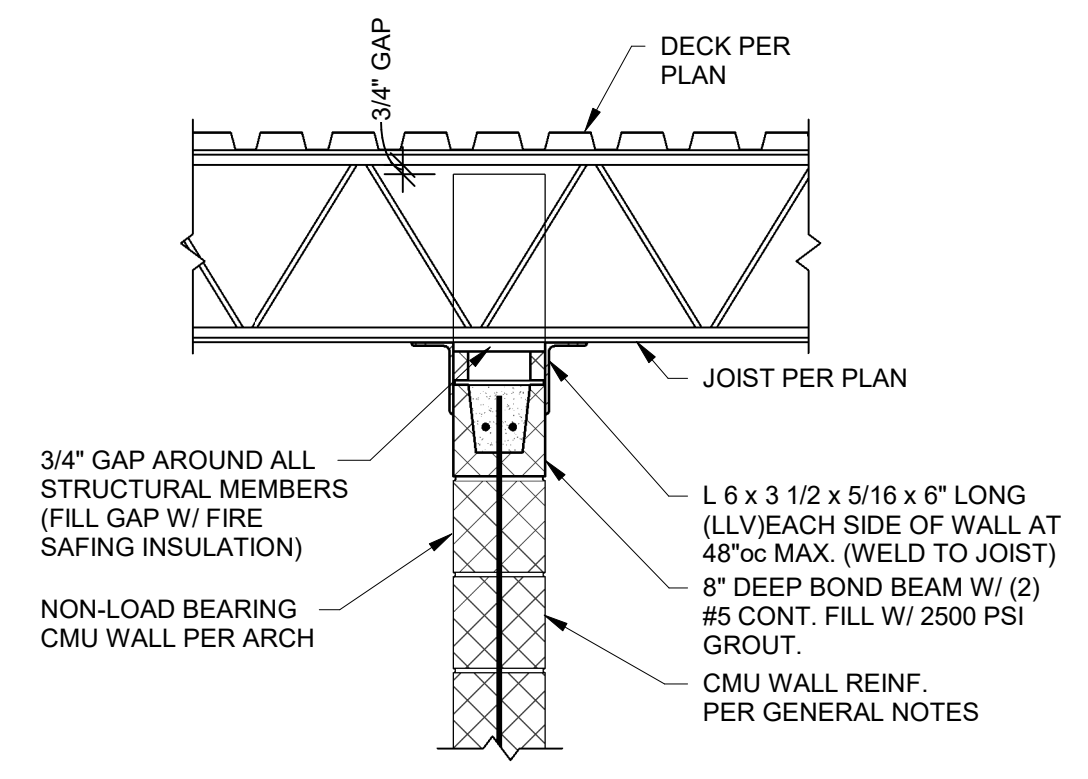
D DETAIL
3/4" = 1'-0"



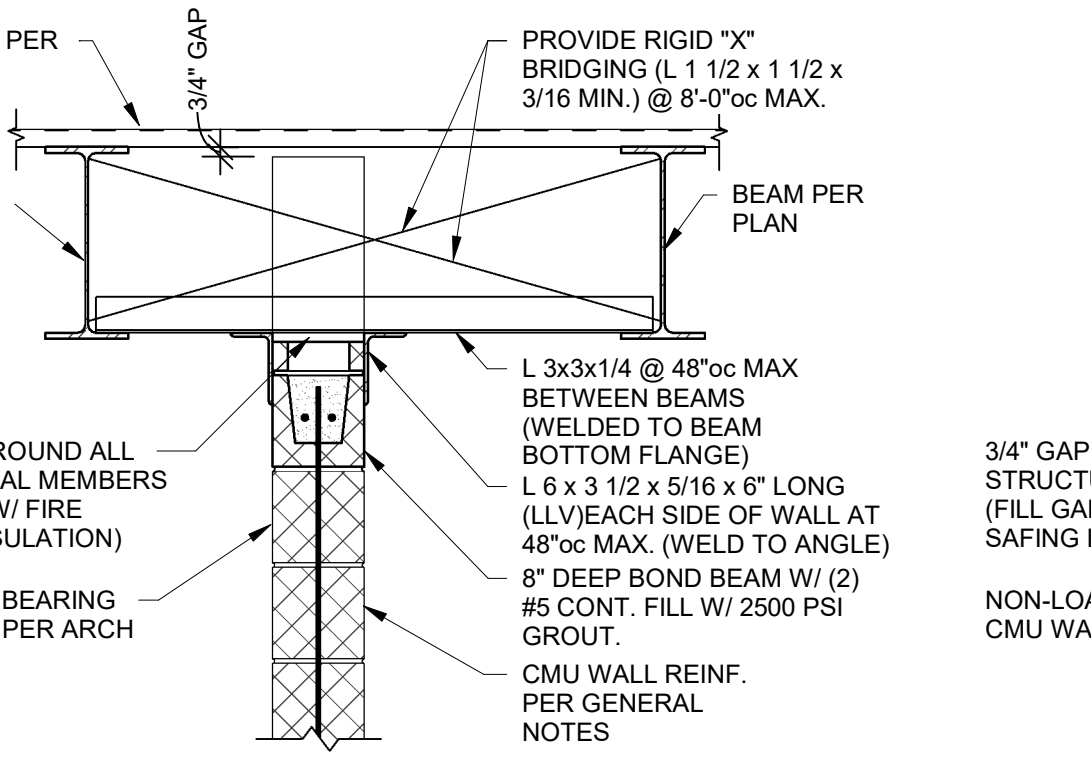
WALL PARALLEL TO JOIST

TYPICAL BRACING DETAILS FOR NON-LOAD-BEARING CMU WALLS THAT EXTEND TO DECK (REFER TO ARCHITECTURAL DRAWINGS FOR LOCATION)

1 SECTION
3/4" = 1'-0"



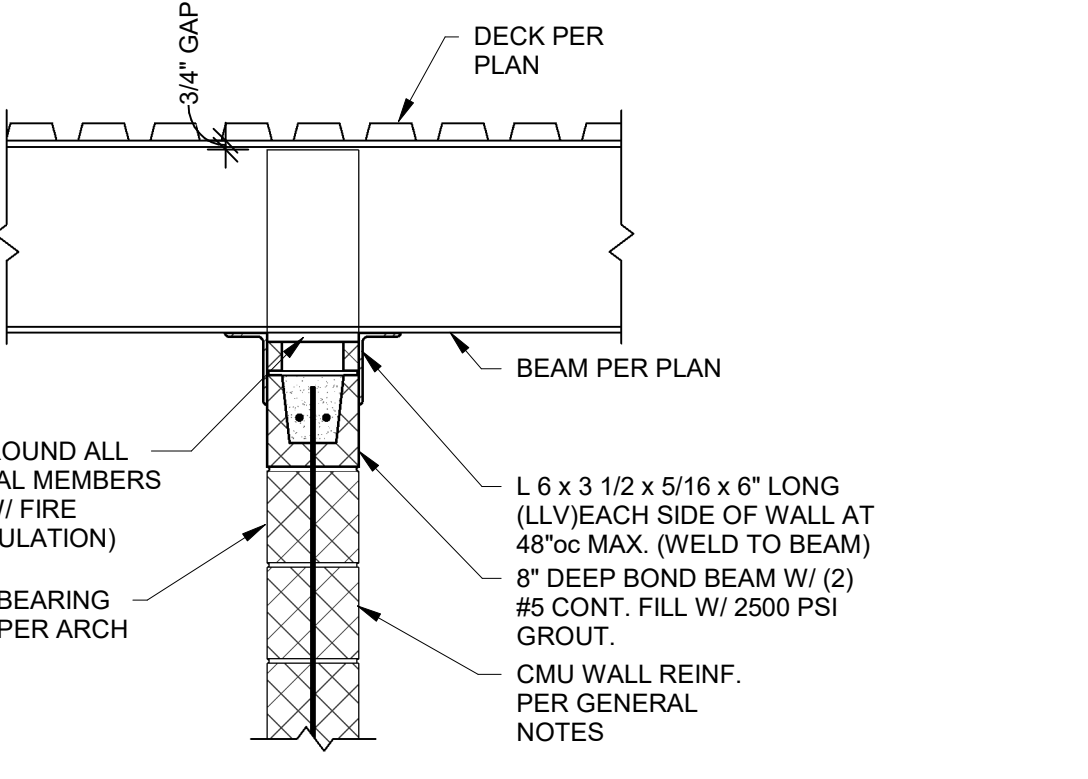
WALL PERPENDICULAR TO JOIST



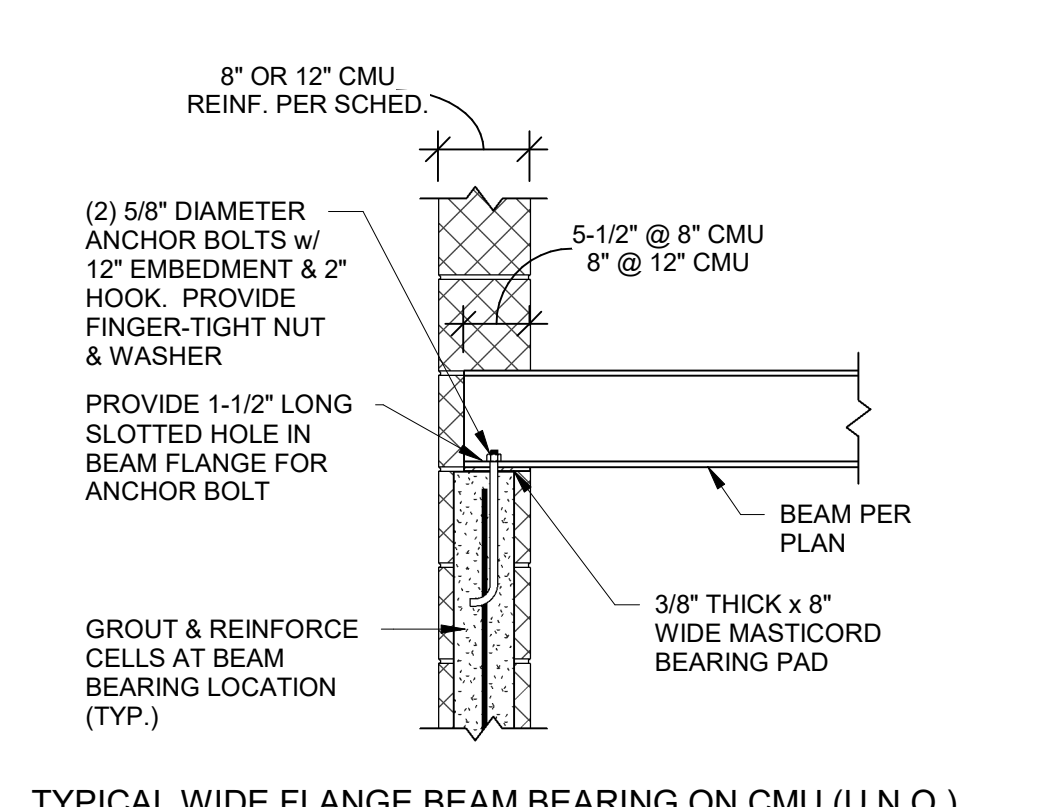
WALL PARALLEL TO JOIST

TYPICAL BRACING DETAILS FOR NON-LOAD-BEARING CMU WALLS THAT EXTEND TO DECK (REFER TO ARCHITECTURAL DRAWINGS FOR LOCATION)

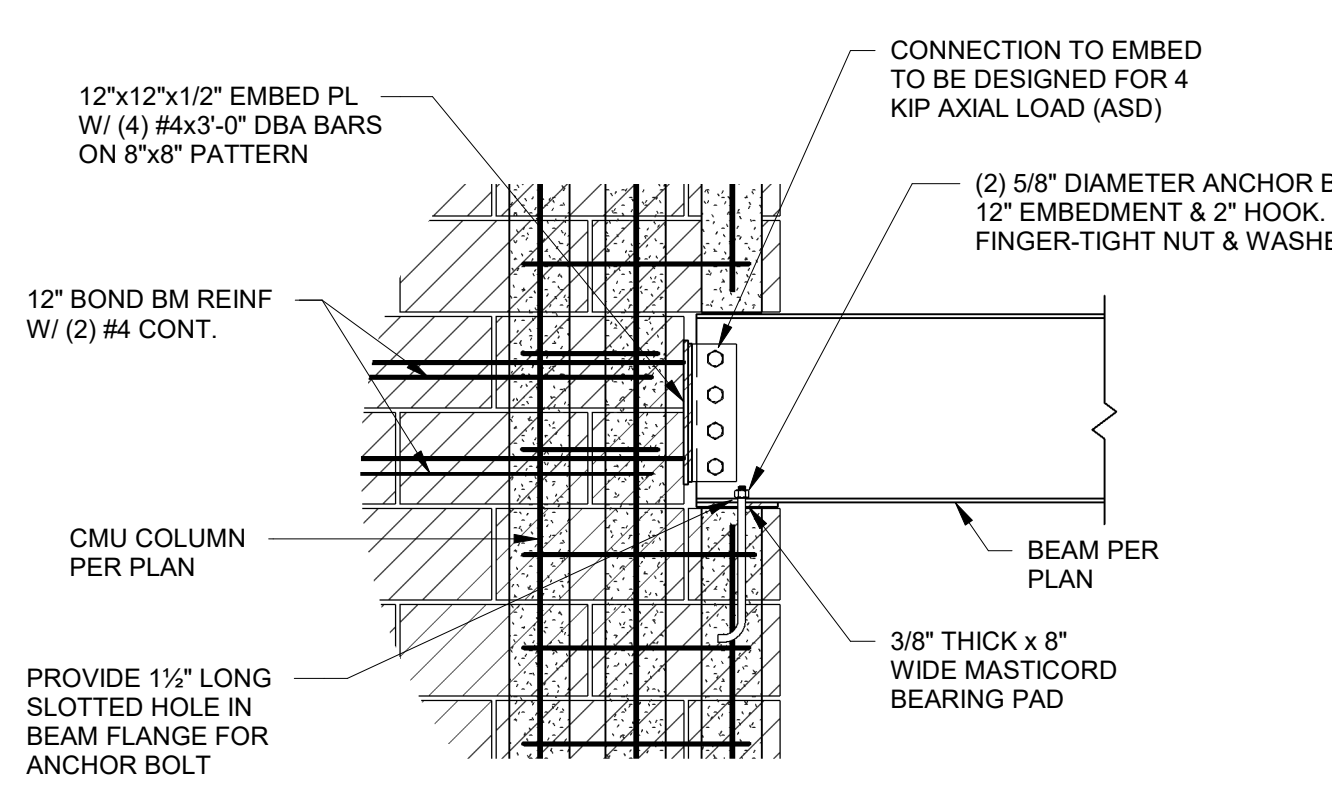
2 SECTION
3/4" = 1'-0"



WALL PERPENDICULAR TO JOIST



5 SECTION
3/4" = 1'-0"



TYPICAL WIDE FLANGE BEAM POCKET @ CMU SHEAR WALL

6 SECTION
3/4" = 1'-0"

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License No. A-0000000

REVISIONS

Number	DESCRIPTION	DATE

PROJECT NO: 0119-0101
DATE: September 28, 2020

18 | 17 | 16 | 15 | 14 | 13 | 12 | 11 | 10 | 9 | 8 | 7 | 6 | 5 | 4 | 3 | 2 | 1

**Lee's Summit R7 District
Athletics Facilities**

Lee's Summit High School
400 SE Blue Parkway
Lee's Summit, MO 64063

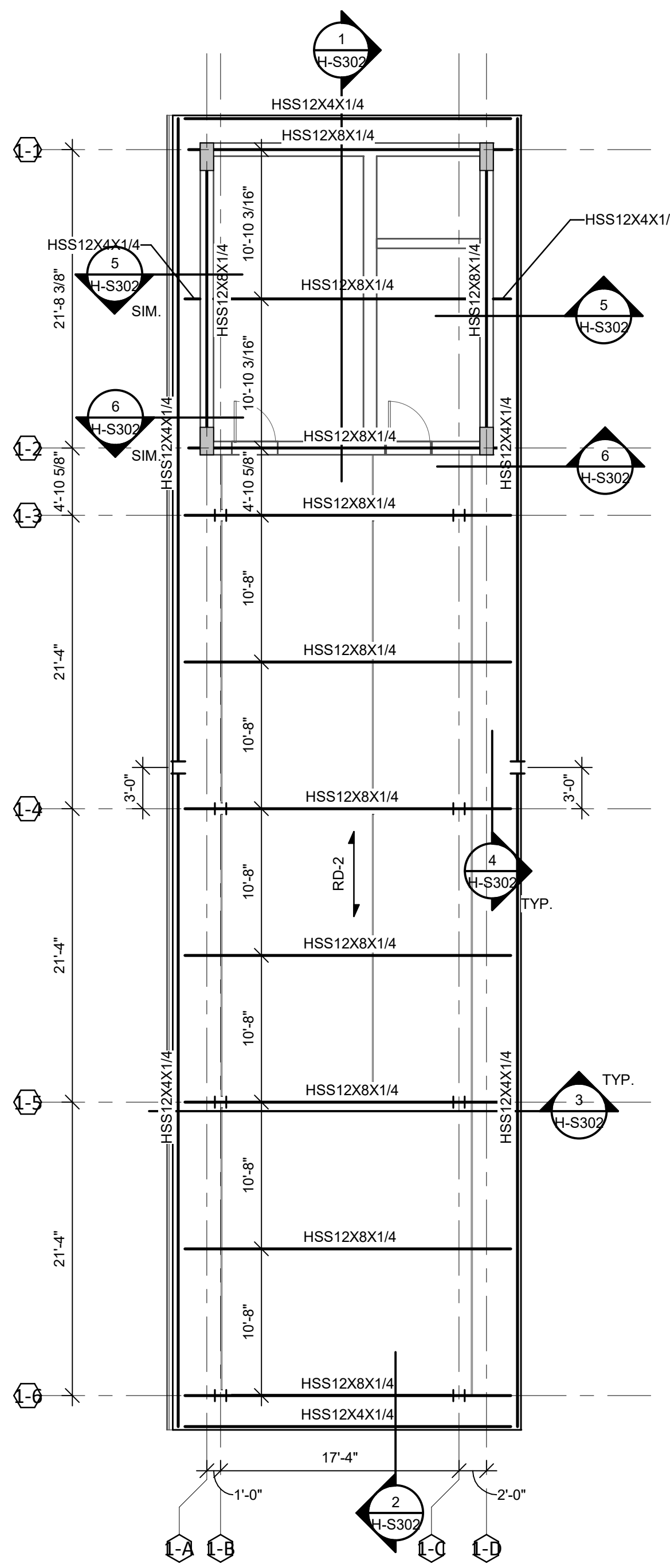
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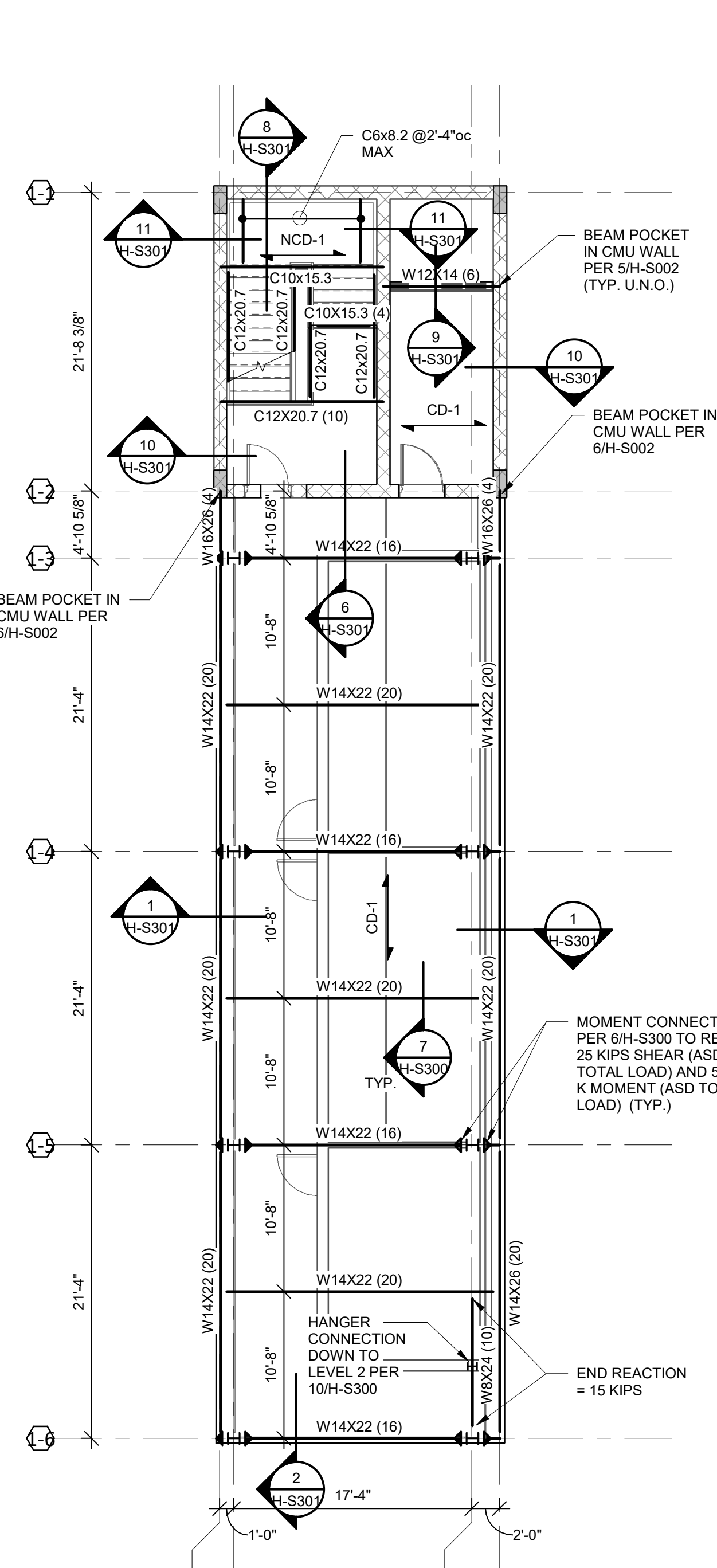
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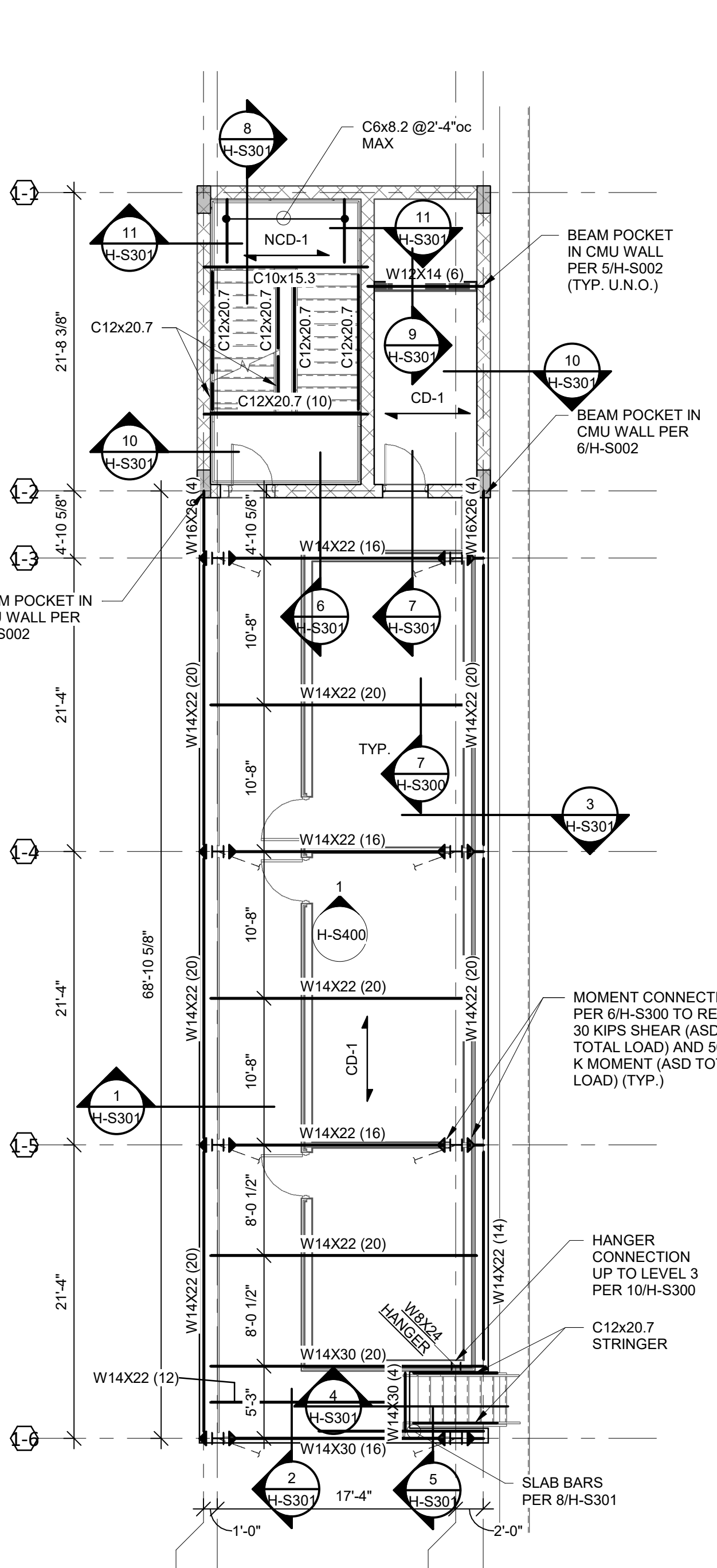
4 Roof Framing Plan - Home Press Box

- 1/8" = 1'-0"
NOTES:
1. REFER TO GENERAL NOTES ON SHEET S001.
2. RD-2 INDICATES 3/2"x20ga GALV. EPICORE ER3.5 ROOF DECK.



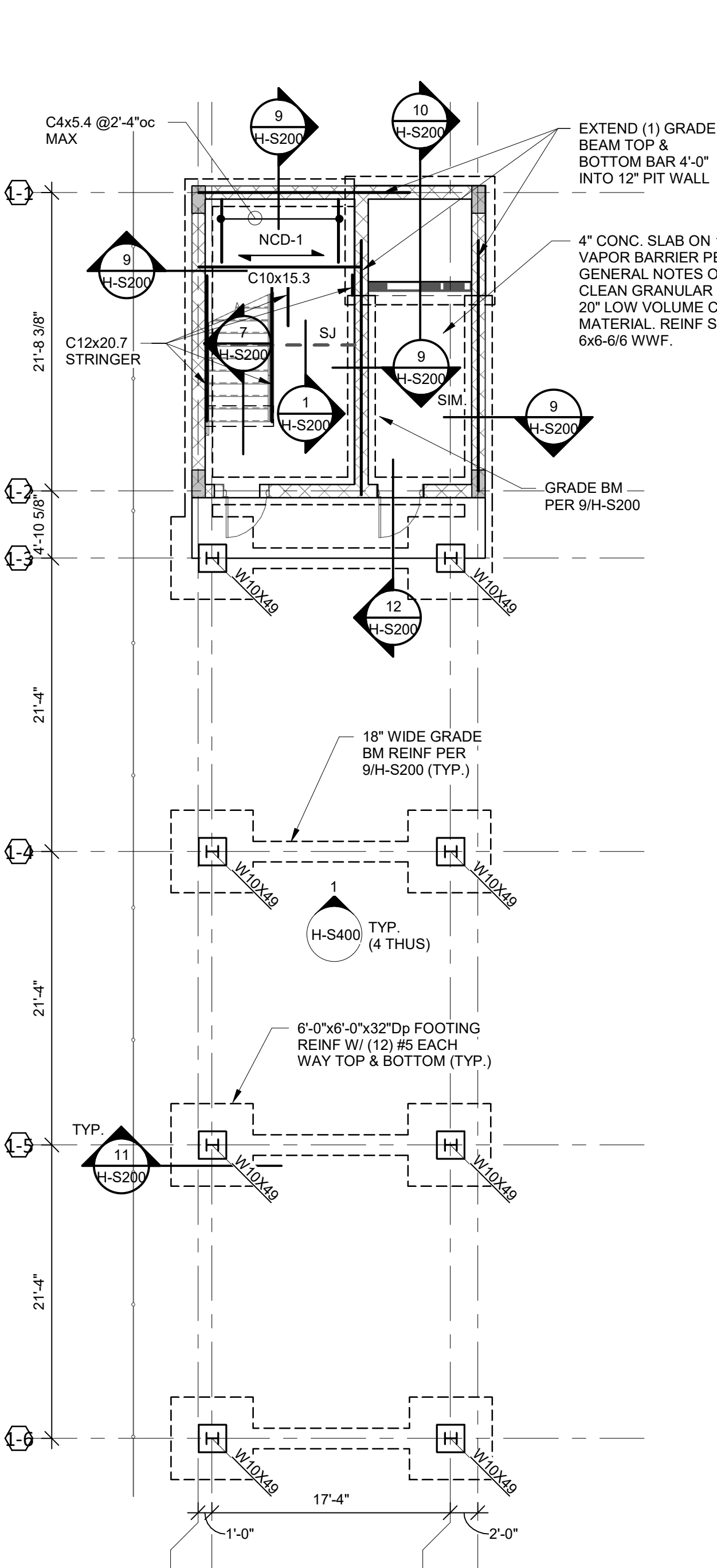
3 Level 3 Framing Plan - Home Press Box

- 1/8" = 1'-0"
NOTES:
1. REFER TO GENERAL NOTES ON SHEET S001.
2. CD-1 INDICATES 2" CONC. SLAB ON 3/2"x20ga GALV. EPICORE 3.5 COMPOSITE FLOOR DECK. REINF. SLAB W/ 6x6-6/8 WWF. T/SLAB EL = 27'-0".
3. NCD-1 INDICATES 2-7/16" CONC. SLAB ON 9/16"x26ga METAL FORM DECK. REINF. SLAB W/ 6x6-6/8 WWF. T/SLAB EL PER ARCH.
4. W14X22(20) QUANTITY OF 3/4"x4" HEADED STUDS
BEAM SIZE



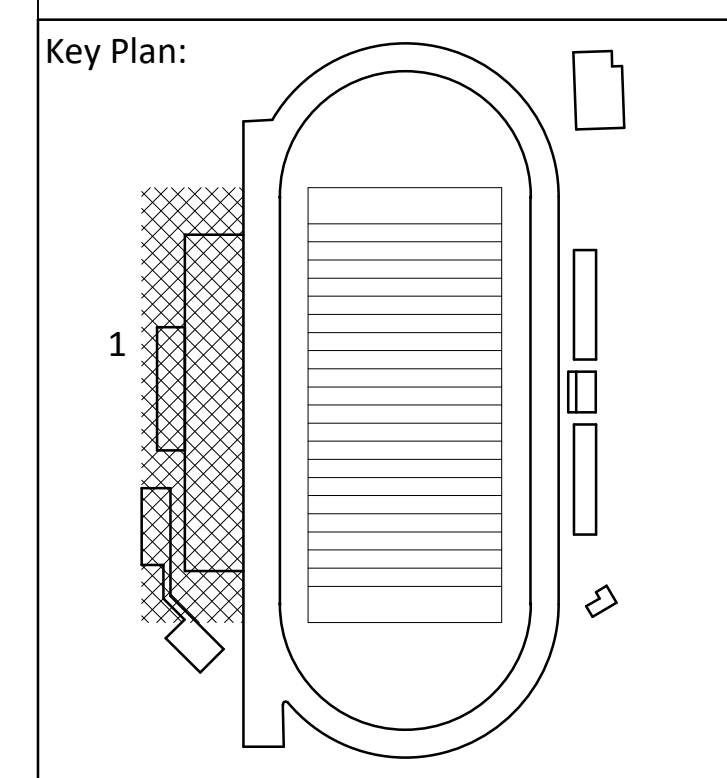
2 Level 2 Framing Plan - Home Press Box

- 1/8" = 1'-0"
NOTES:
1. REFER TO GENERAL NOTES ON SHEET S001.
2. CD-1 INDICATES 2" CONC. SLAB ON 3/2"x20ga GALV. EPICORE 3.5 COMPOSITE FLOOR DECK. REINF. SLAB W/ 6x6-6/8 WWF. T/SLAB EL = 27'-0".
3. NCD-1 INDICATES 2-7/16" CONC. SLAB ON 9/16"x26ga METAL FORM DECK. REINF. SLAB W/ 6x6-6/8 WWF. T/SLAB EL PER ARCH.
4. W14X22(20) QUANTITY OF 3/4"x4" HEADED STUDS
BEAM SIZE



1 Level 1 Foundation Plan - Home Press Box

- 1/8" = 1'-0"
NOTES:
1. REFER TO GENERAL NOTES ON SHEET S001.
2. CD-1 INDICATES 12"x24" CMU COLUMNS REINF. W/ (4) #6 VERTS & #3 TIES @8"oc.
3. NCD-1 INDICATES 2-7/16" CONC. SLAB ON 9/16"x26ga METAL FORM DECK. REINF. SLAB W/ 6x6-6/8 WWF. T/SLAB EL PER ARCH.



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STATE OF MISSOURI
RICHARD G. CRABTREE
NUMBER E-027441
Architectural Corporation
Missouri License No. 2018022991
Jane Doe Date: MM/DD/YYYY
License No. A-0000000

REVISIONS

Number	DESCRIPTION	DATE

PROJECT NO: 0119-0101
DATE: September 28, 2020

Home Press Box Plans

H-S111

BID SET

**Lee's Summit R7 District
Athletics Facilities**

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structural engineer:
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civil engineer:
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Lenexa, KS 66215
913.485.0318

mechanical/electrical engineer:
Henderson Engineers
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816.742.5000

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Architect License No. A-0000000

REVISIONS

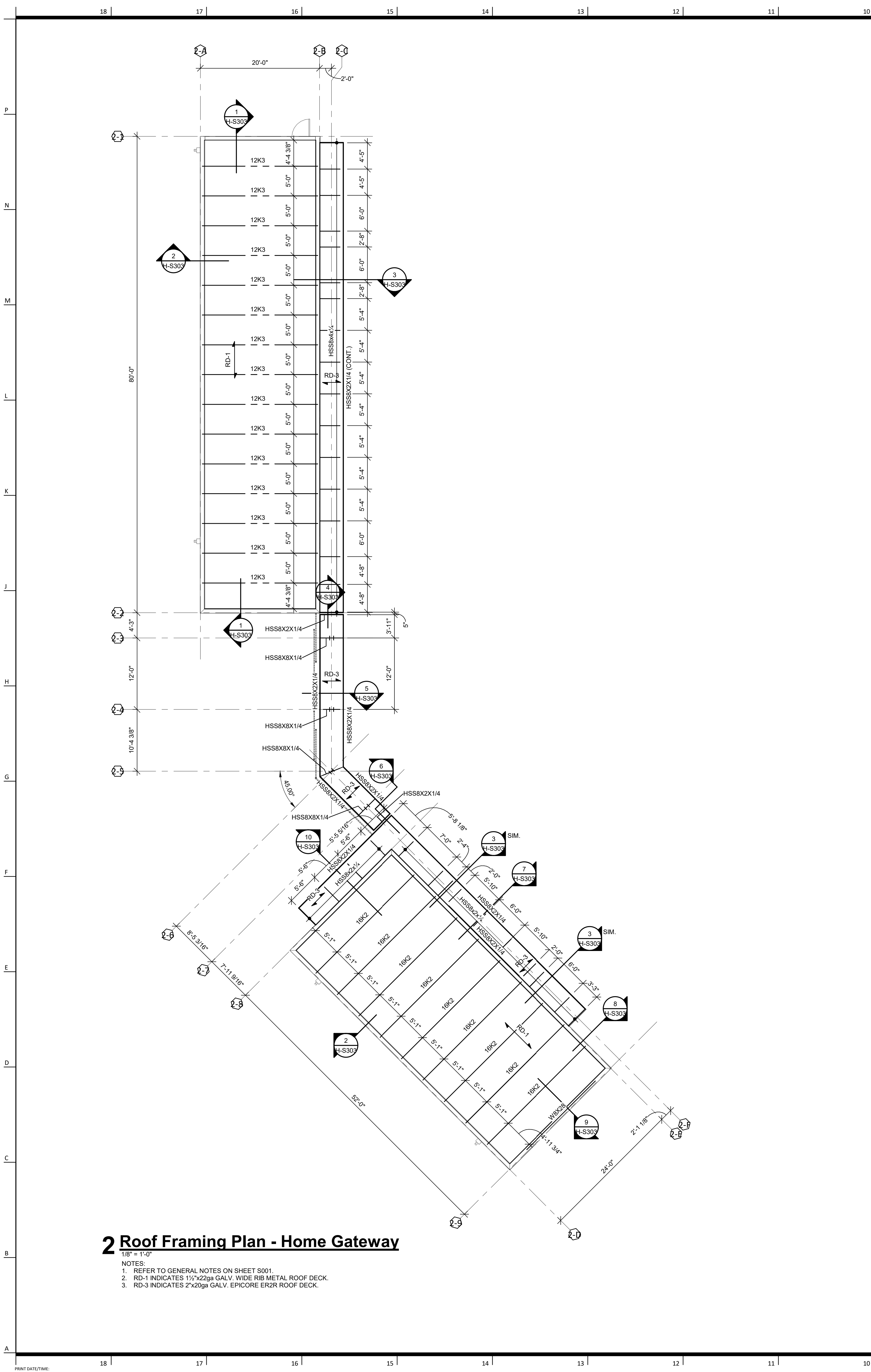
Number	DESCRIPTION	DATE

PROJECT NO: 0119-0101
DATE: September 28, 2020

Home Gateway Plans

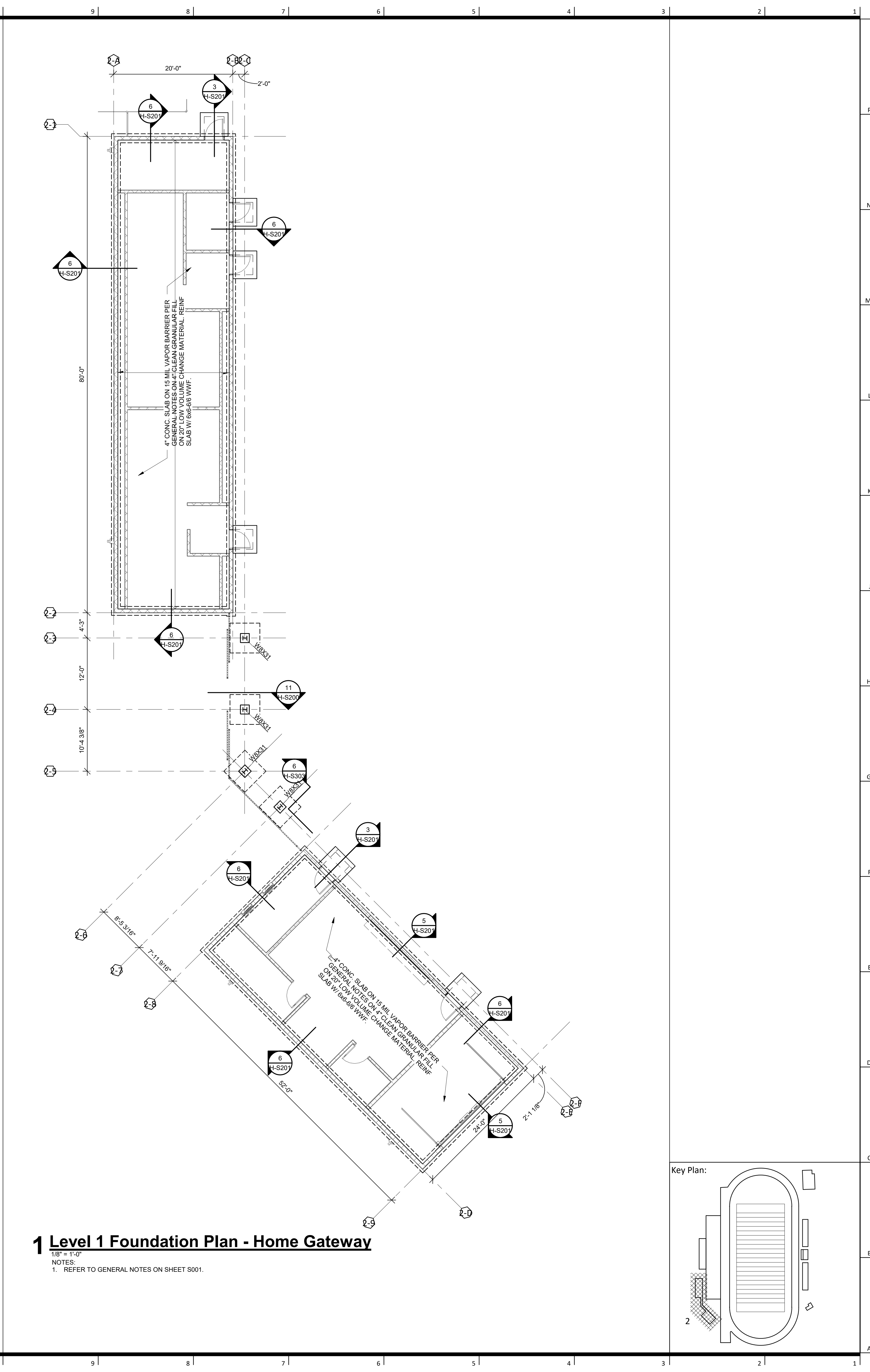
H-S121

BID SET



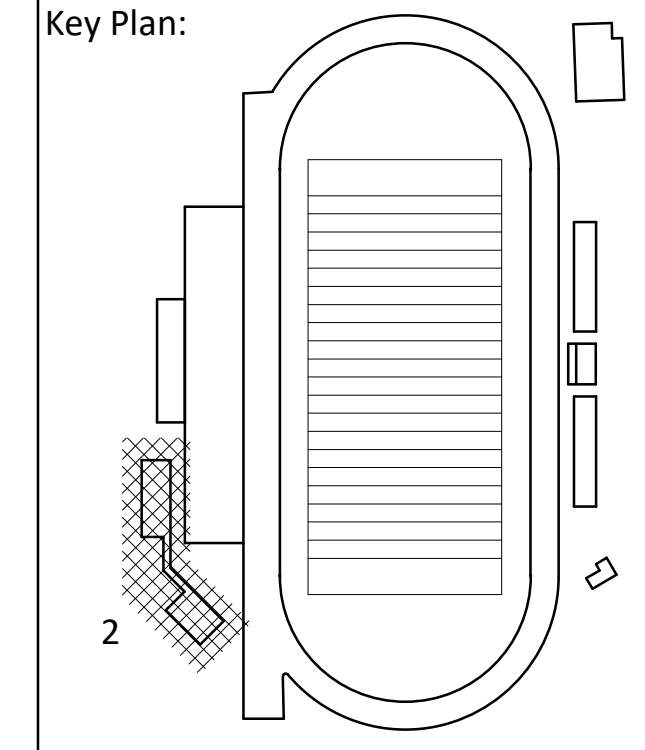
2 Roof Framing Plan - Home Gateway
1/8" = 1'-0"

- NOTES:
1. REFER TO GENERAL NOTES ON SHEET S001.
2. RD-1 INDICATES 1 1/2"x22ga GALV. WIDE RIB METAL ROOF DECK.
3. RD-3 INDICATES 2"x20ga GALV. EPICORE ER2R ROOF DECK.



1 Level 1 Foundation Plan - Home Gateway
1/8" = 1'-0"

- NOTES:
1. REFER TO GENERAL NOTES ON SHEET S001.



**Lee's Summit R7 District
Athletics Facilities**

Lee's Summit High School
400 SE Blue Parkway
Lee's Summit, MO 64063

owner:
Lee's Summit R7 School District
301 NE Tudor Road
Lee's Summit, MO 64086

architect:
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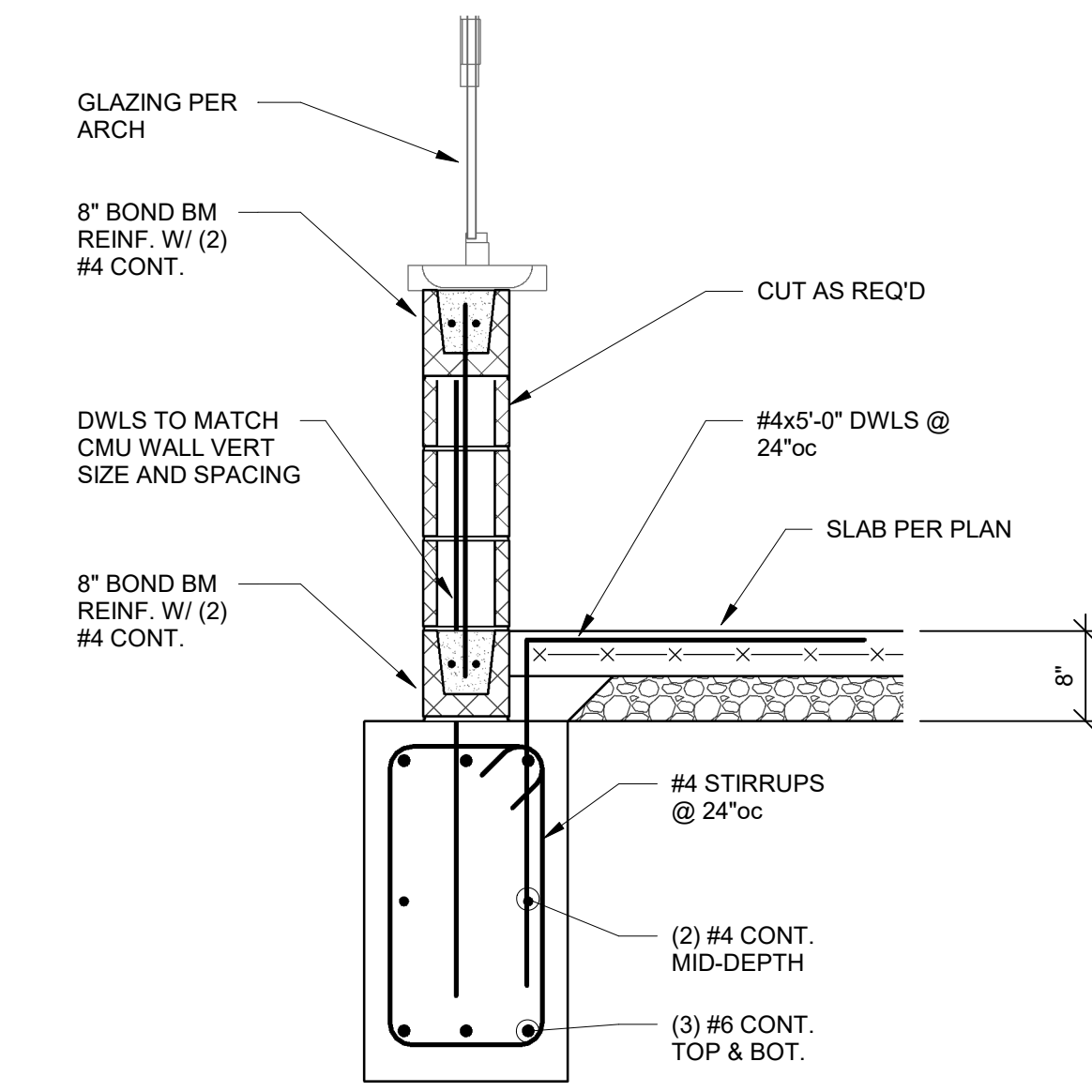
REVISIONS		
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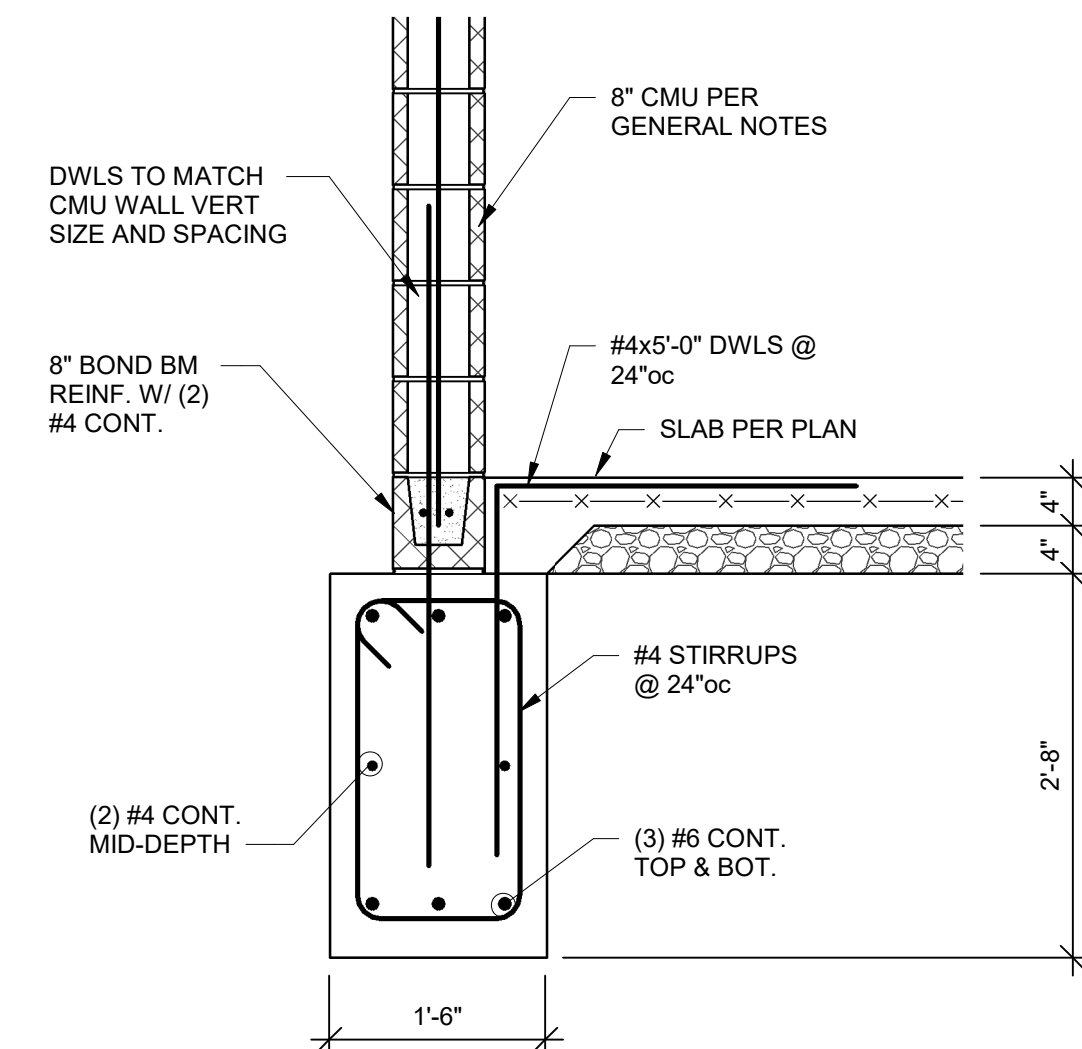
Visitor Ticket Booth
Plans

H-S131

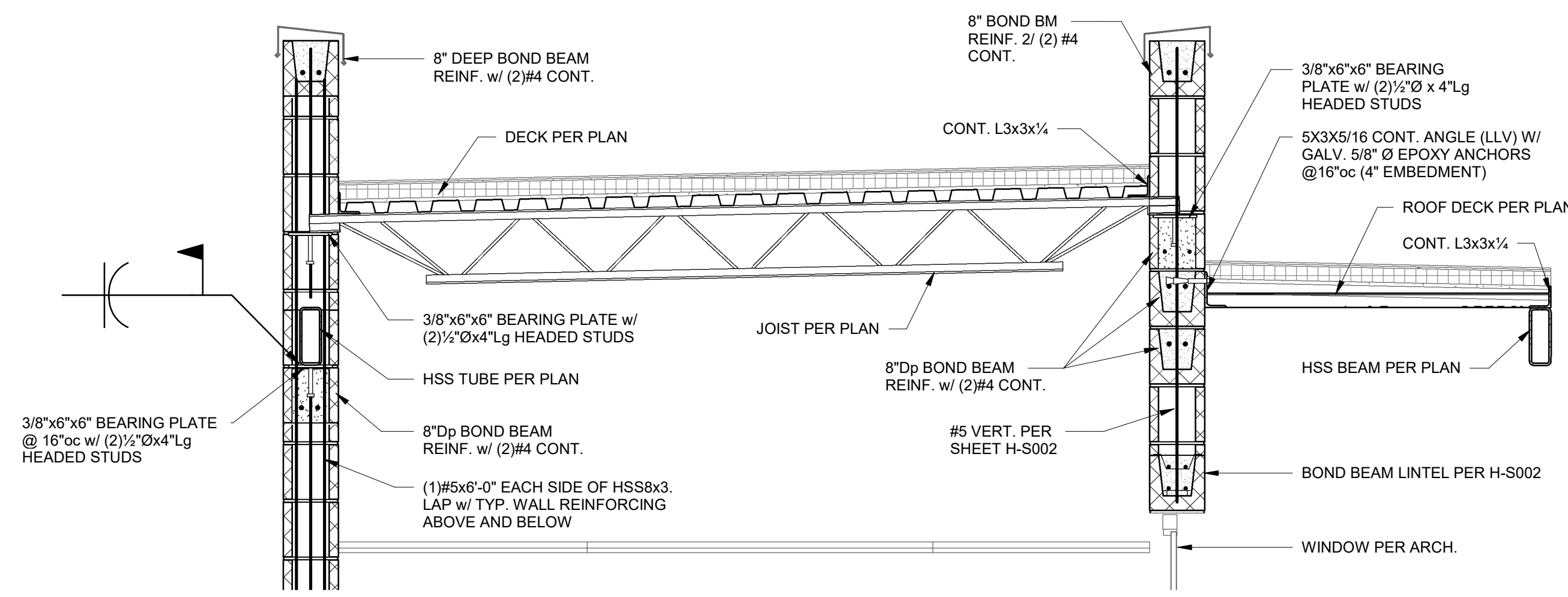
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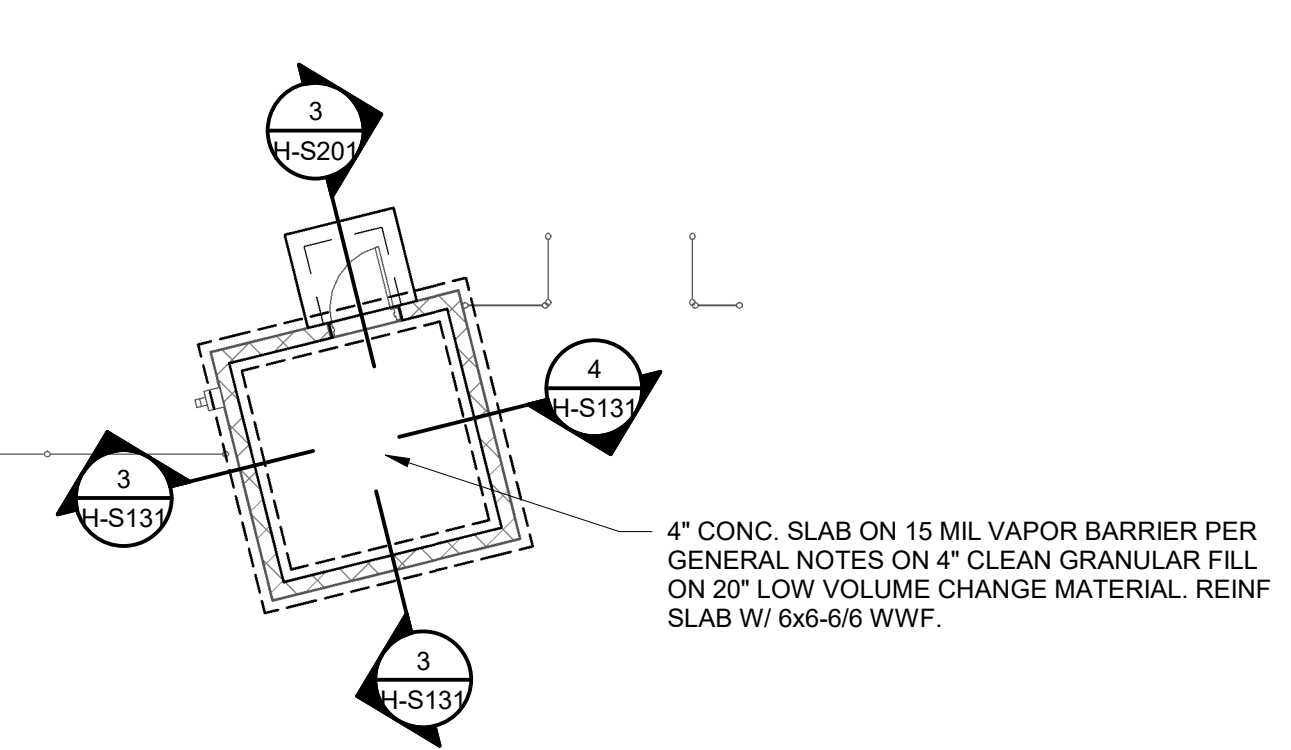
4 SECTION
3/4" = 1'-0"



3 SECTION
3/4" = 1'-0"

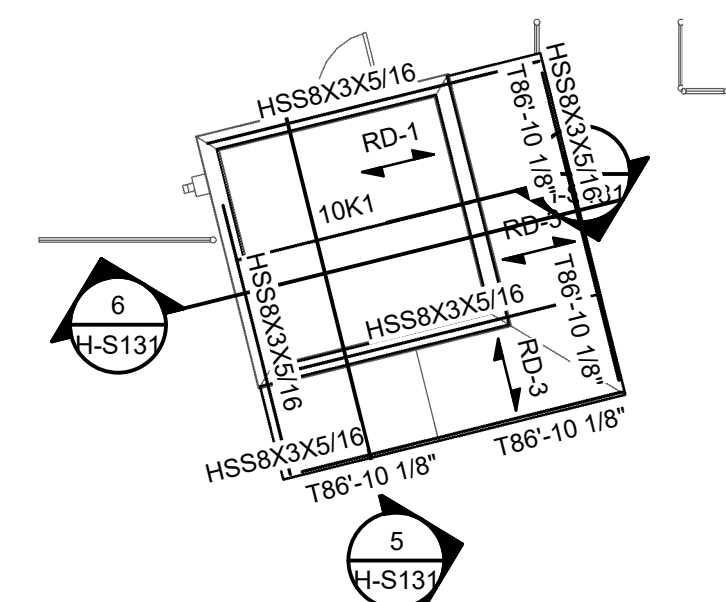


6 SECTION
3/4" = 1'-0"



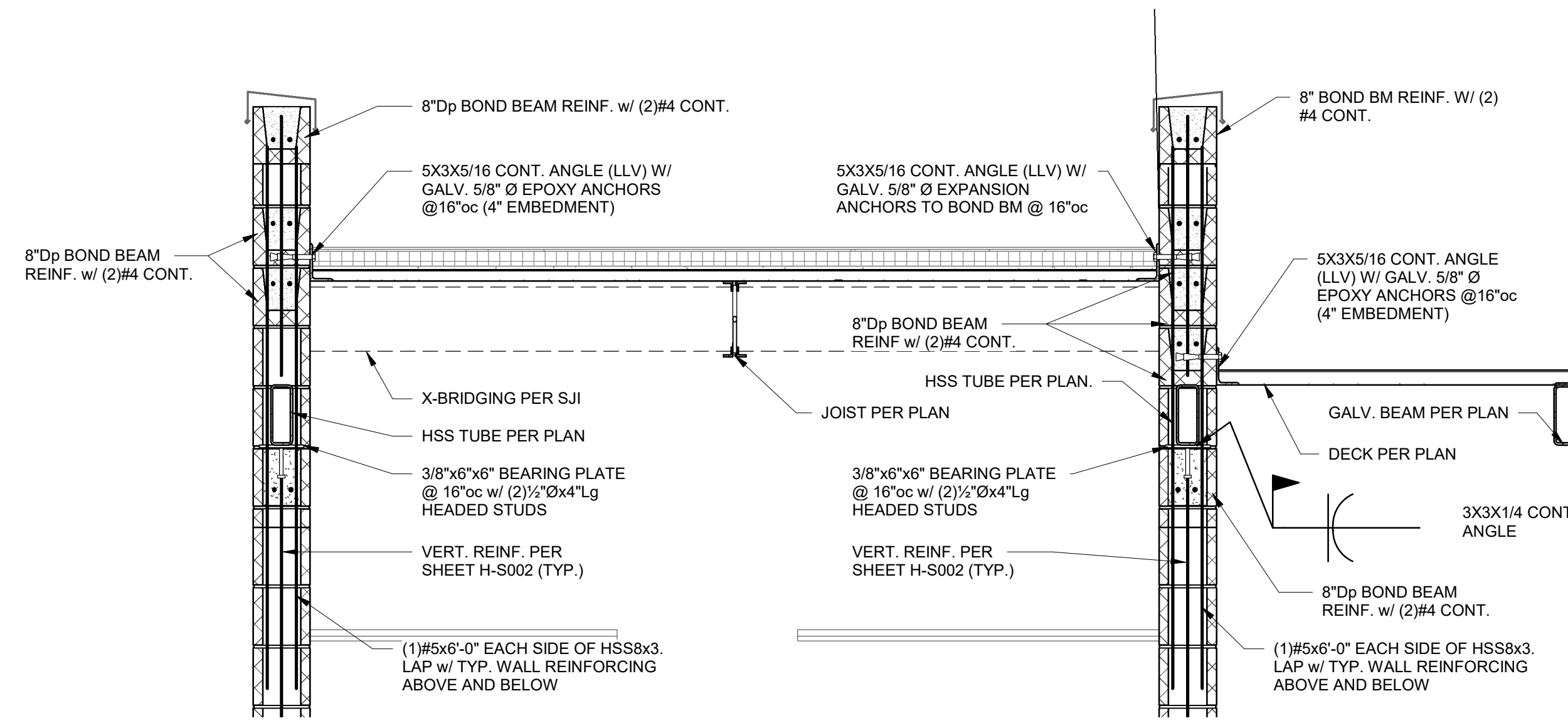
1 Level 1 Foundation Plan - Visitor Ticket Booth
1/8" = 1'-0"

NOTES:
1. REFER TO GENERAL NOTES ON SHEET S001.

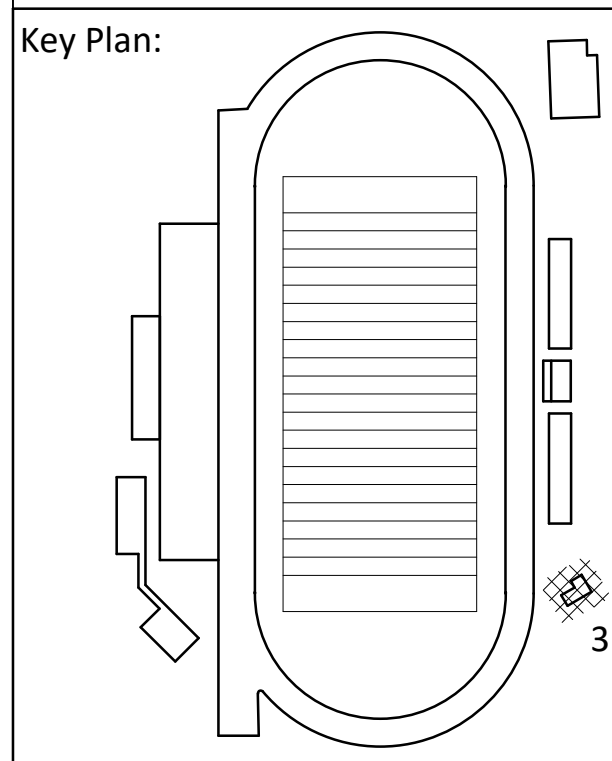


2 Roof Framing Plan - Visitor Ticket Booth
1/8" = 1'-0"

NOTES:
1. REFER TO GENERAL NOTES ON SHEET S001.
2. RD-1 INDICATES 1 1/2\"/>



5 SECTION
3/4" = 1'-0"



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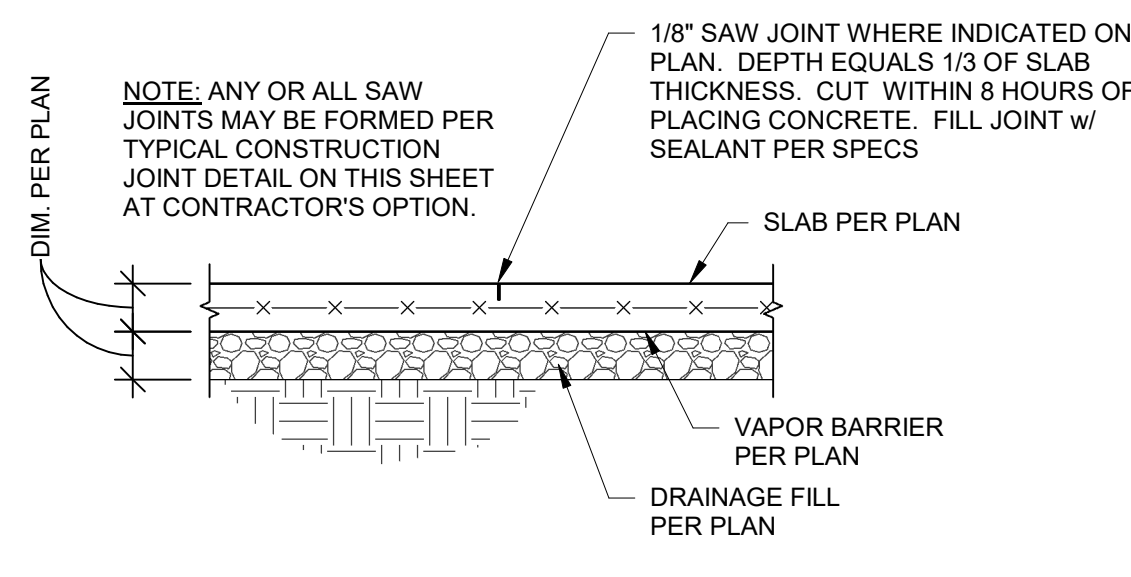
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PROJECT NO: 0119-0101
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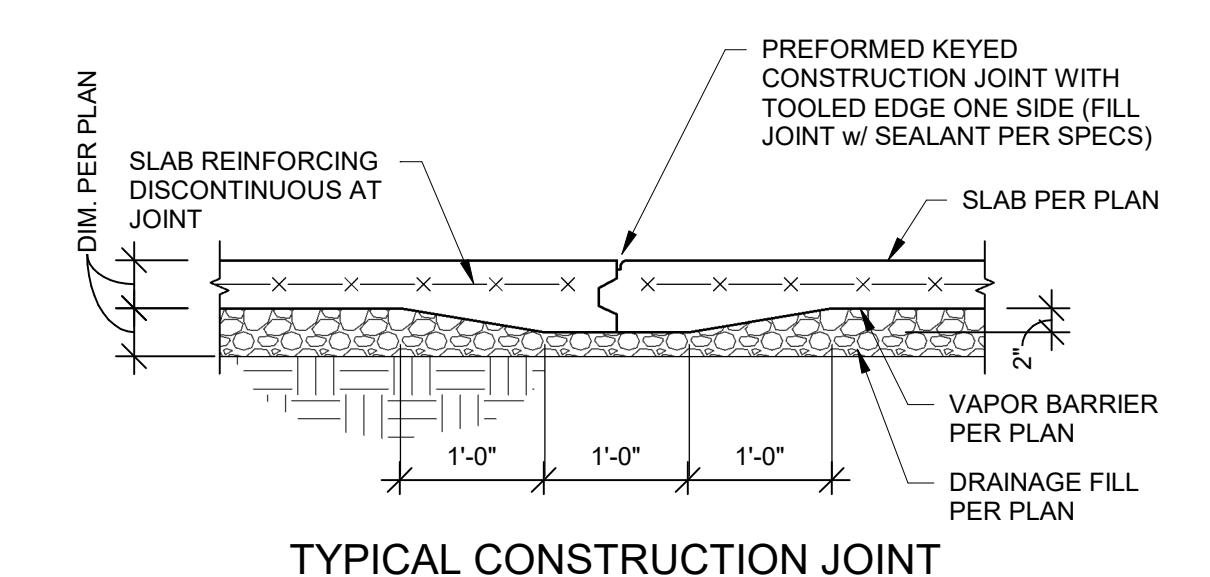
Foundation Sections

H-S200

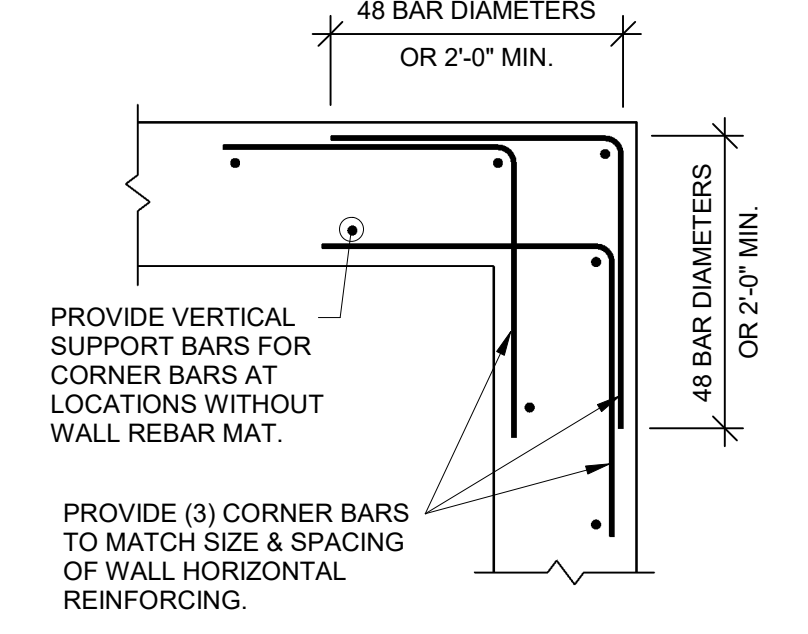
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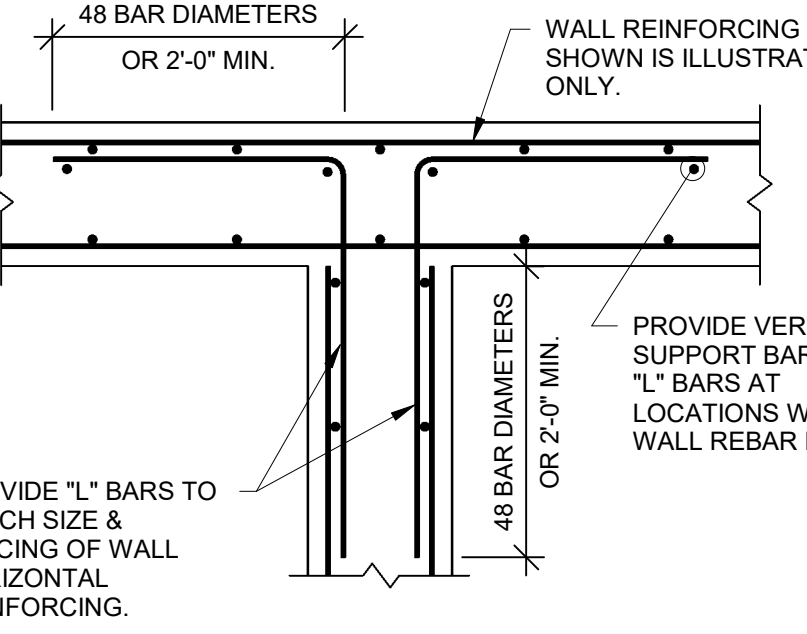
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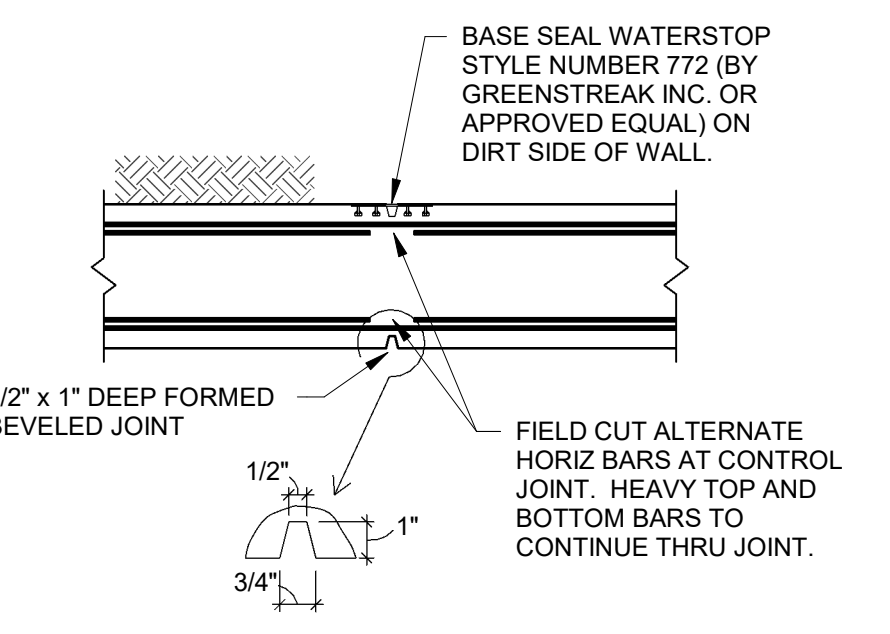
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3/4" = 1'-0"



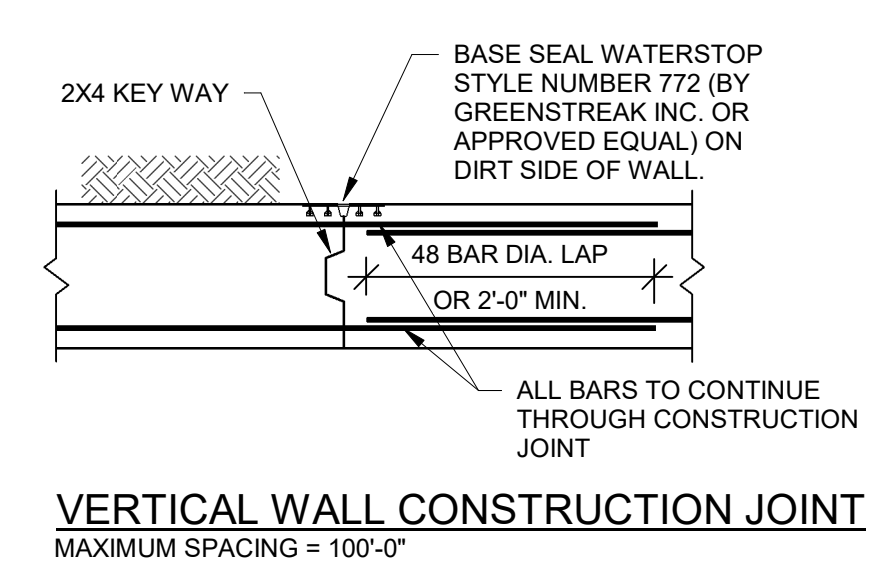
3 WALL REINFORCING
3/4" = 1'-0"



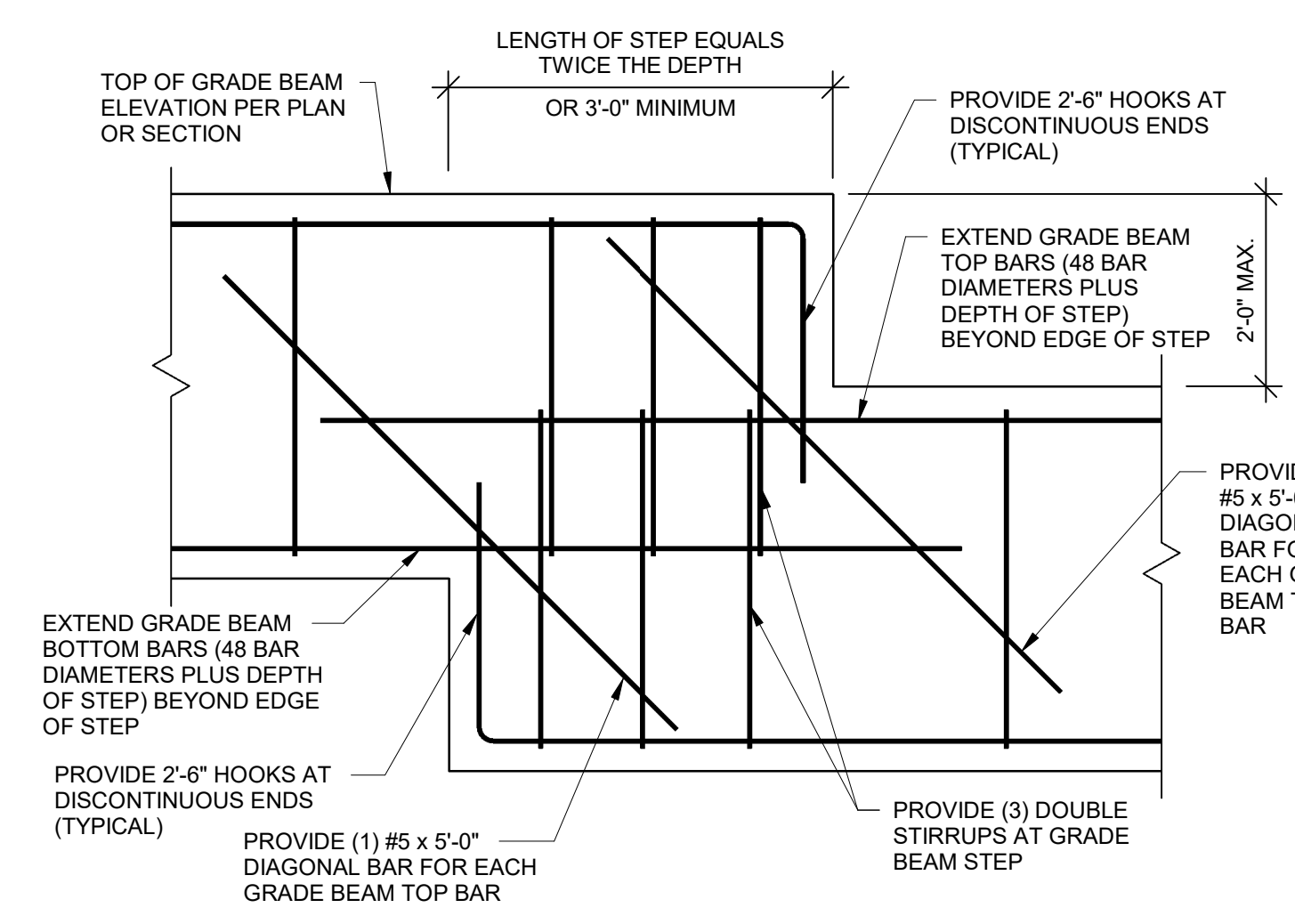
4 WALL REINFORCING
3/4" = 1'-0"



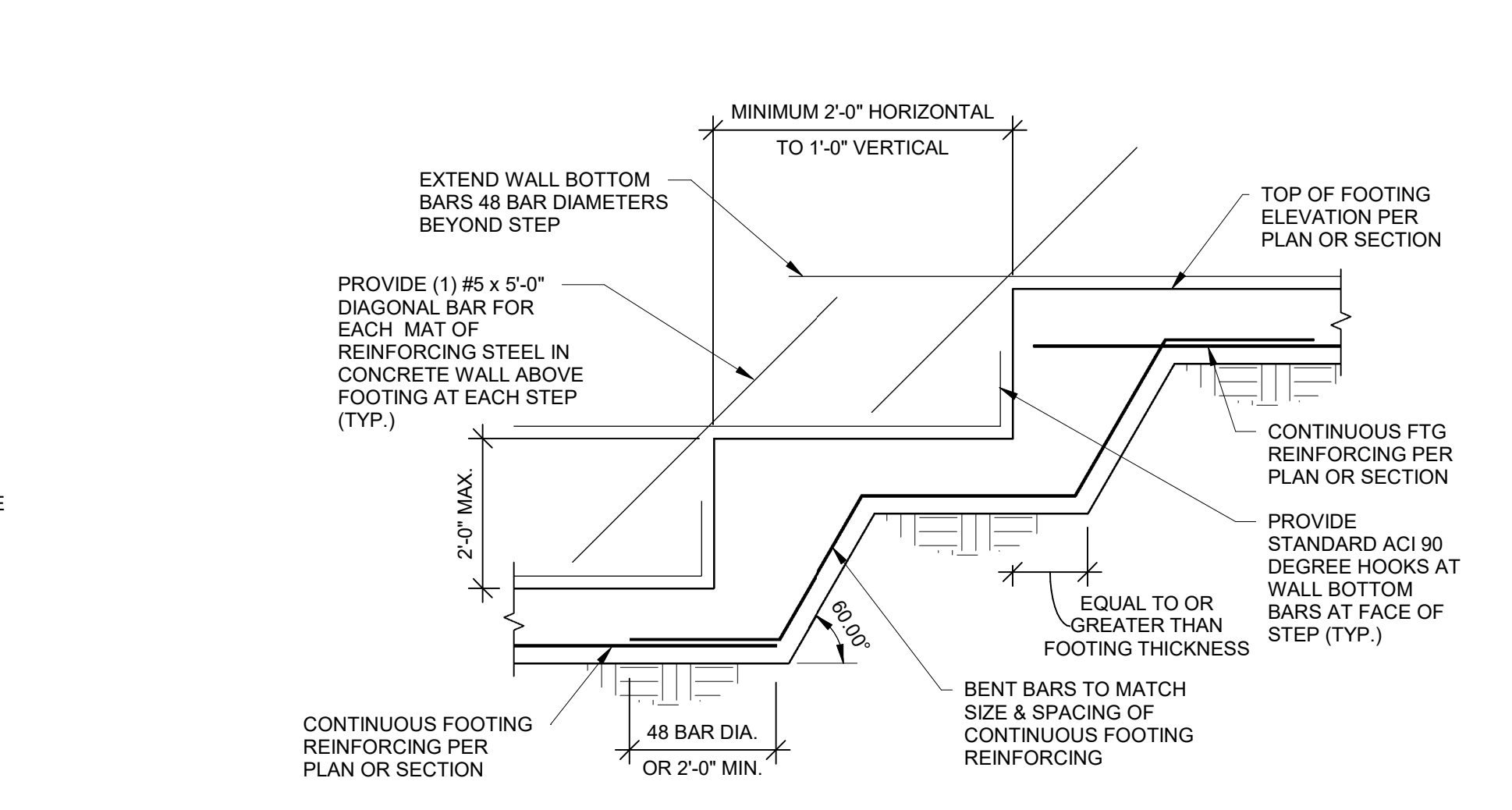
4 VERTICAL WALL CONTROL JOINT
3/4" = 1'-0"



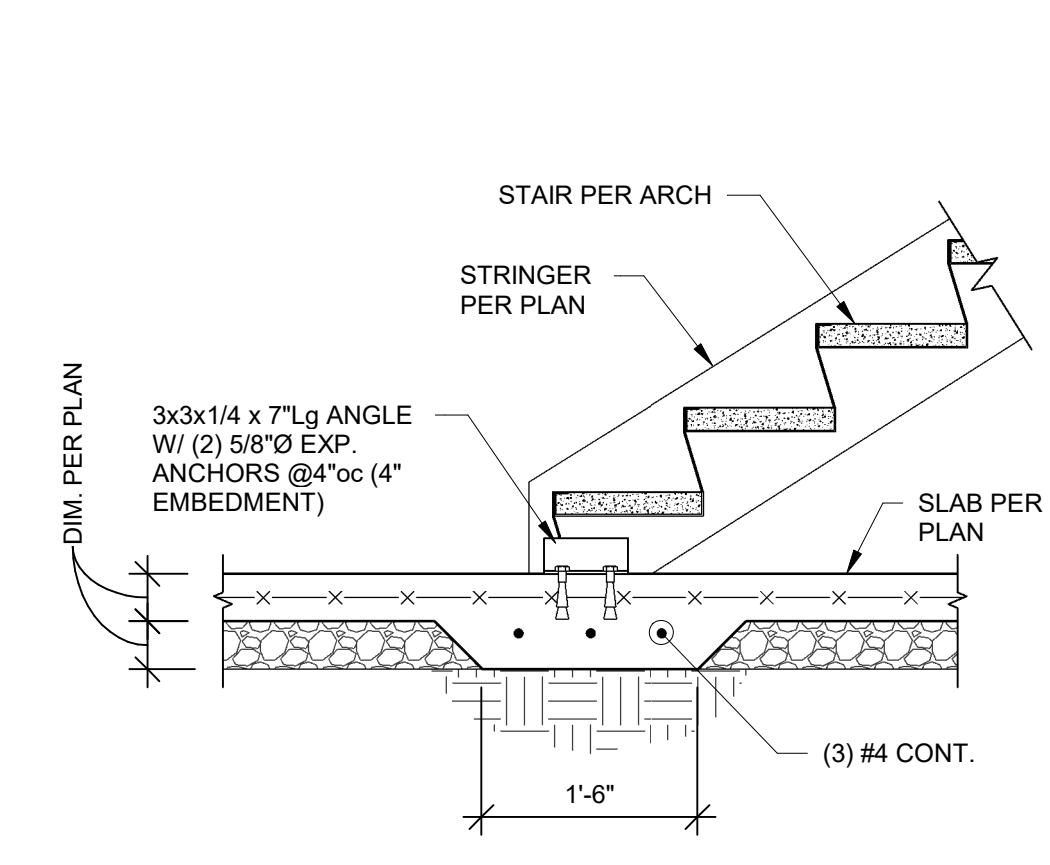
VERTICAL WALL CONSTRUCTION JOINT
3/4" = 1'-0"



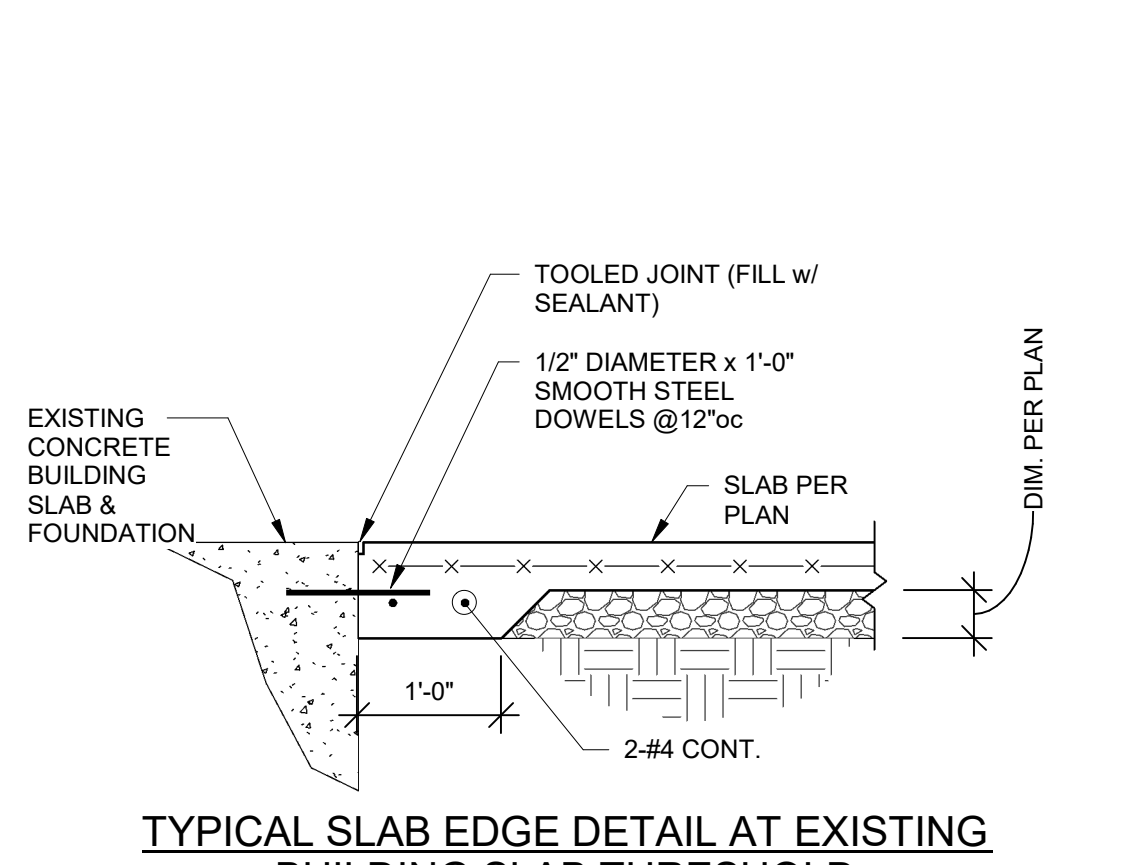
5 TYPICAL GRADE BEAM STEP
3/4" = 1'-0"



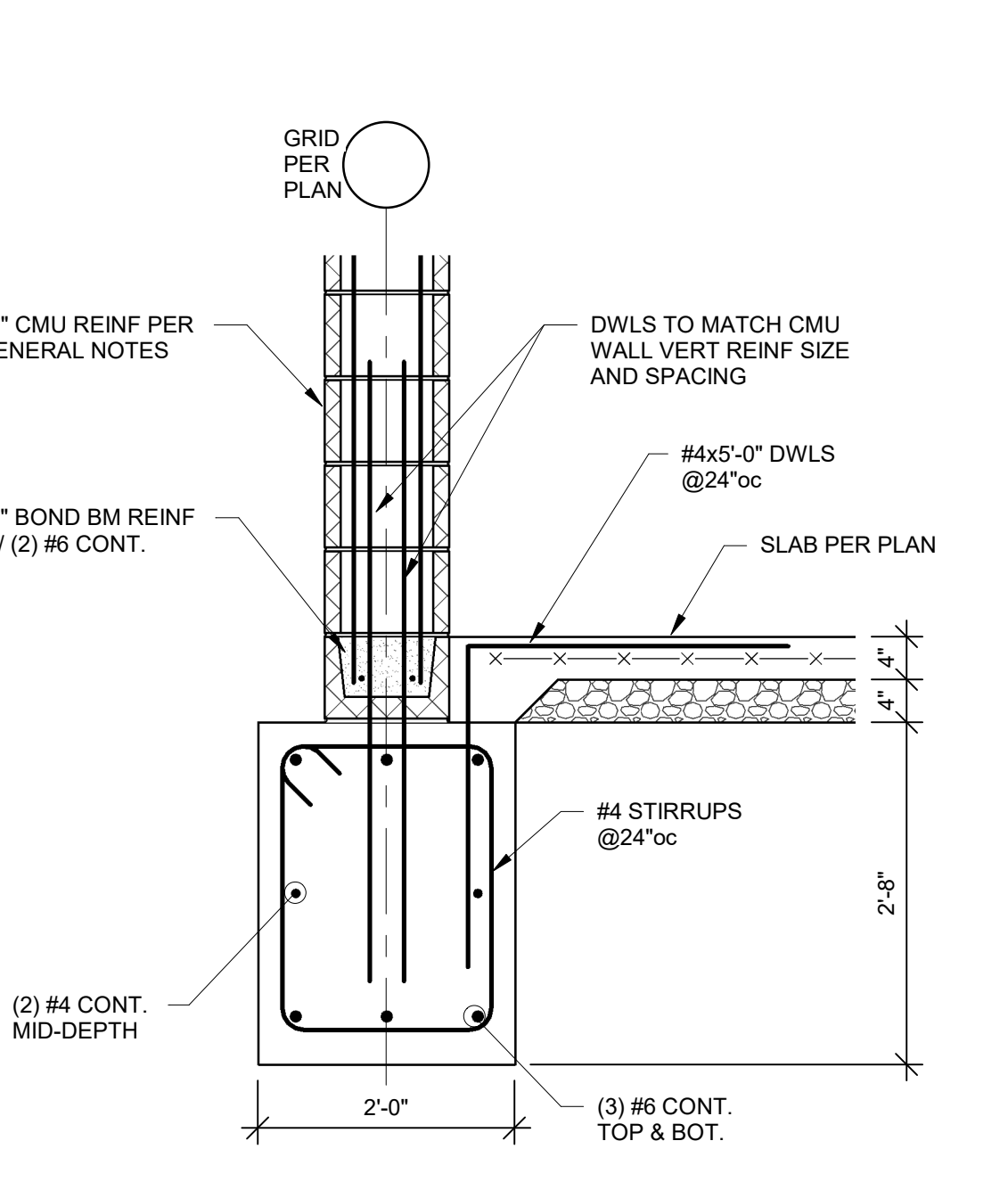
6 TYPICAL FOOTING STEP
1/2" = 1'-0"



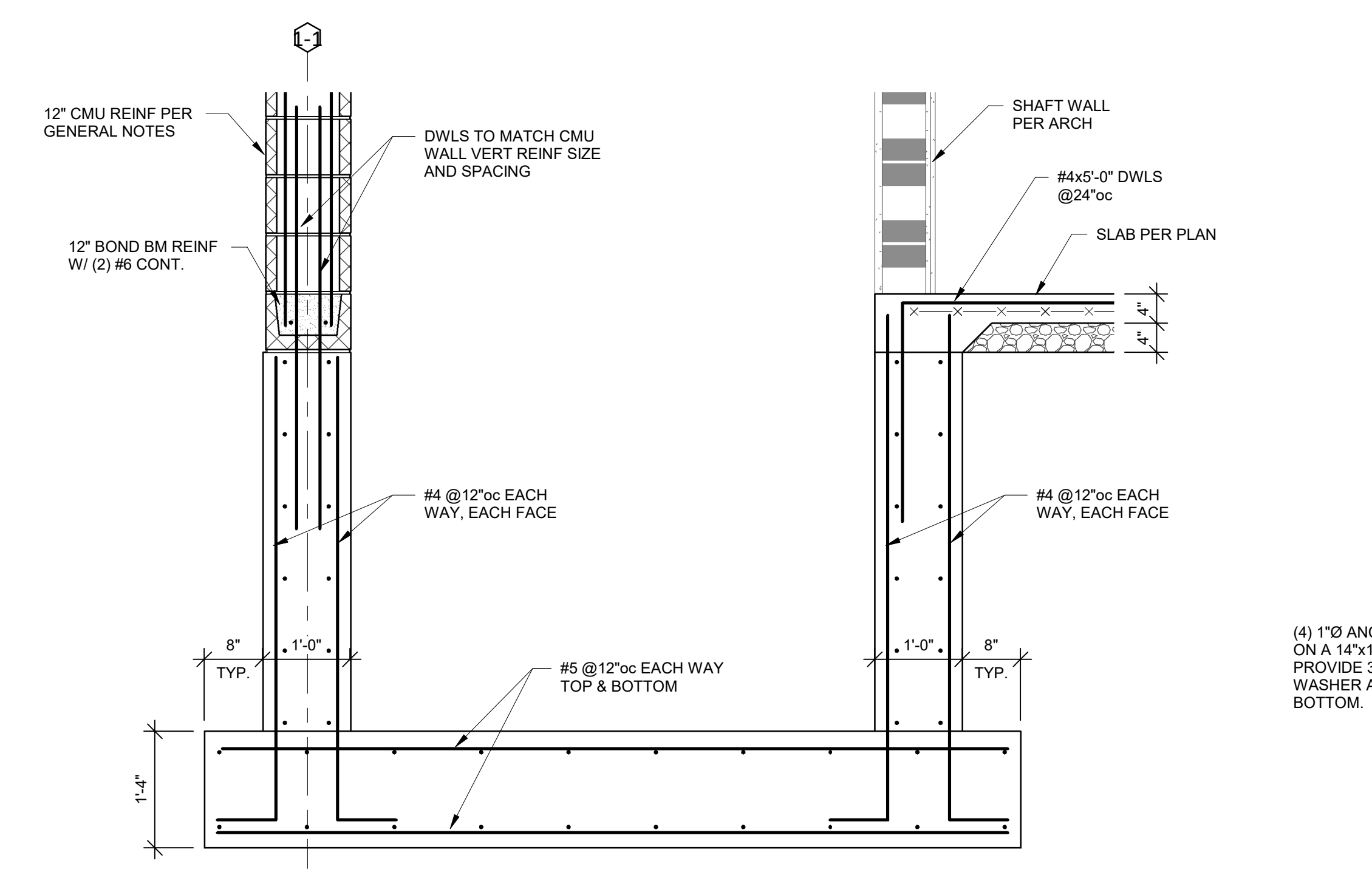
7 SECTION
3/4" = 1'-0"



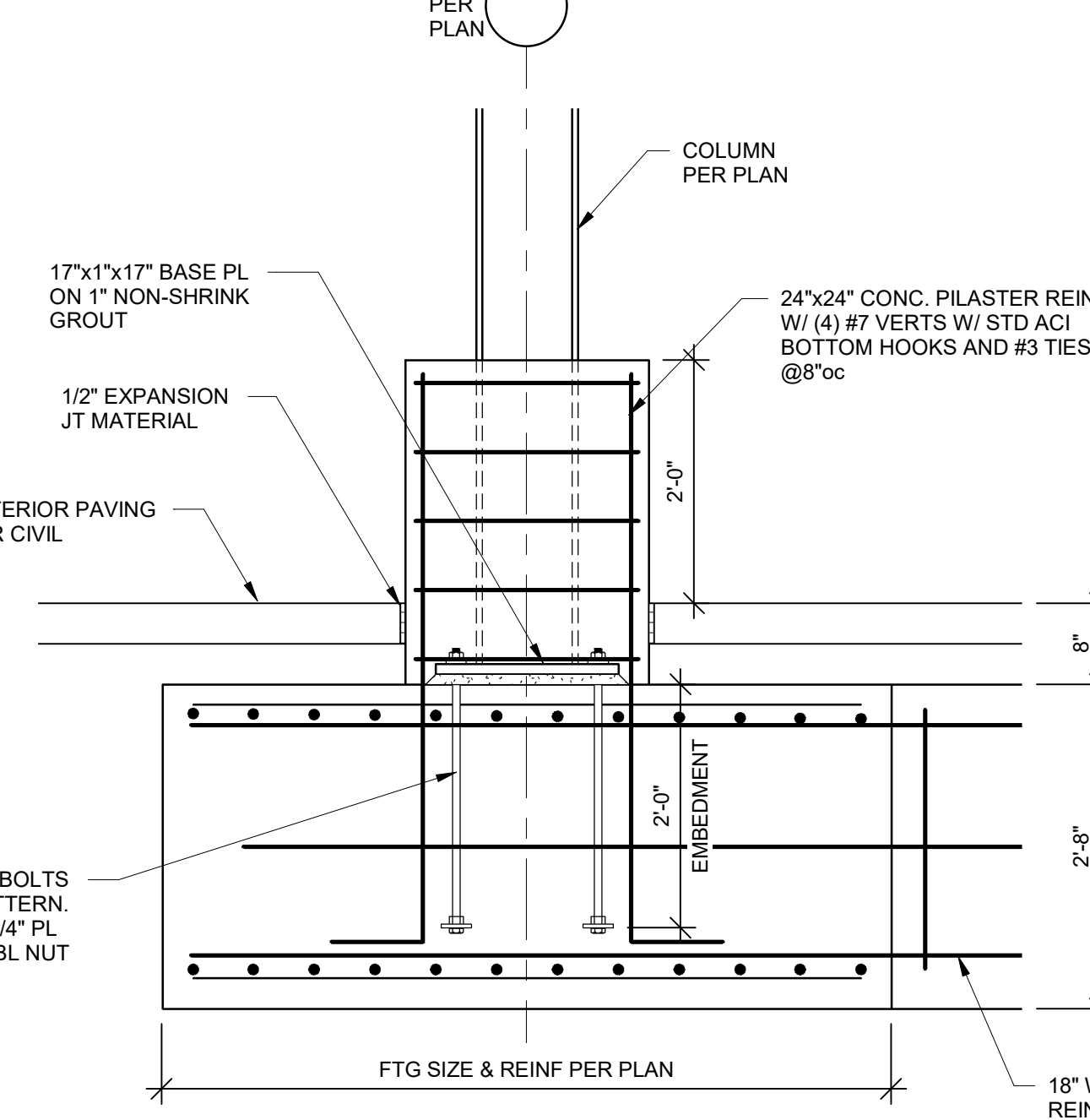
8 SECTION
3/4" = 1'-0"



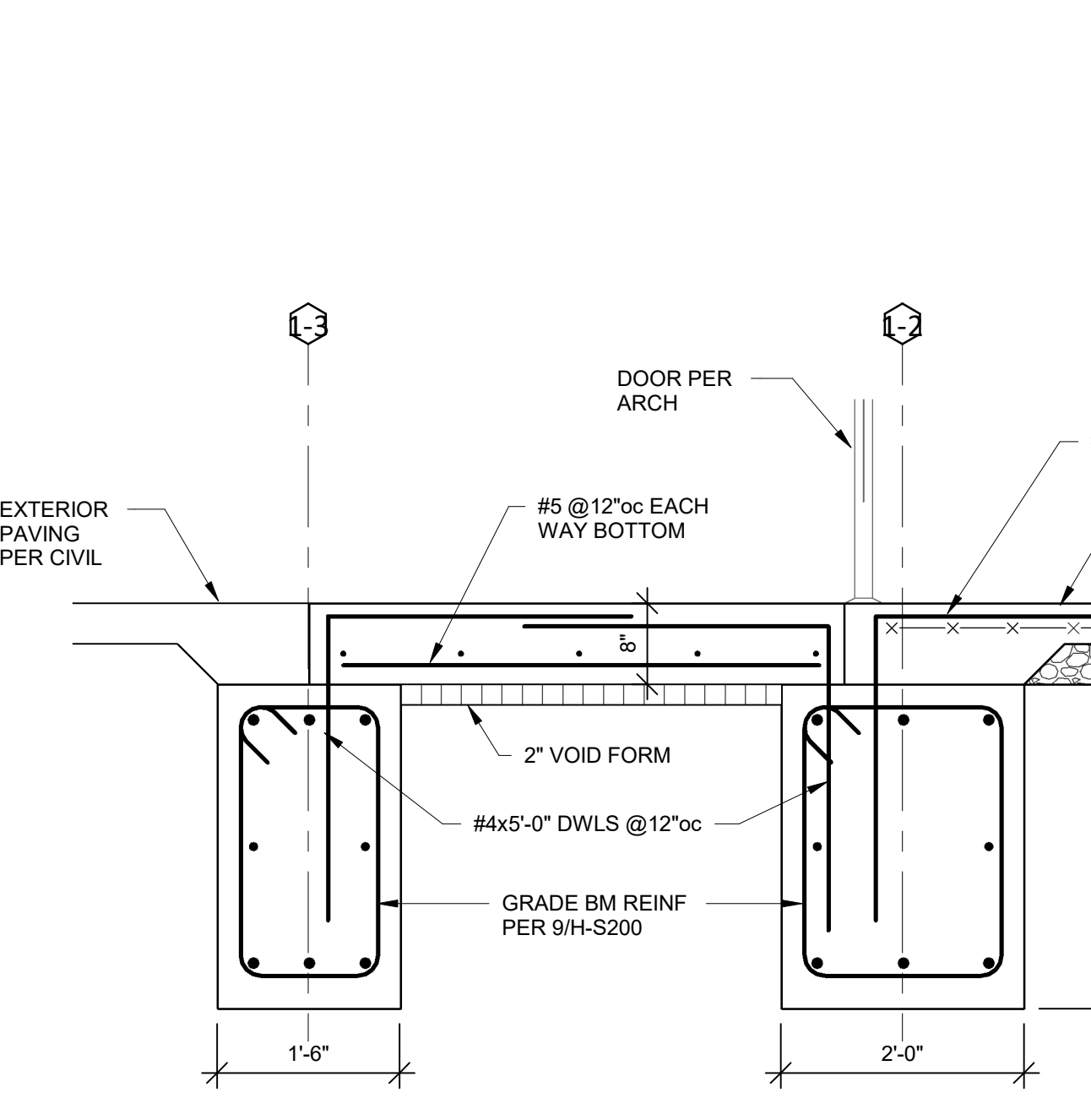
9 SECTION
3/4" = 1'-0"



10 SECTION
3/4" = 1'-0"



11 SECTION
3/4" = 1'-0"



12 SECTION
3/4" = 1'-0"

**Lee's Summit R7 District
Athletics Facilities**

Lee's Summit High School
400 SE Blue Parkway
Lee's Summit, MO 64063

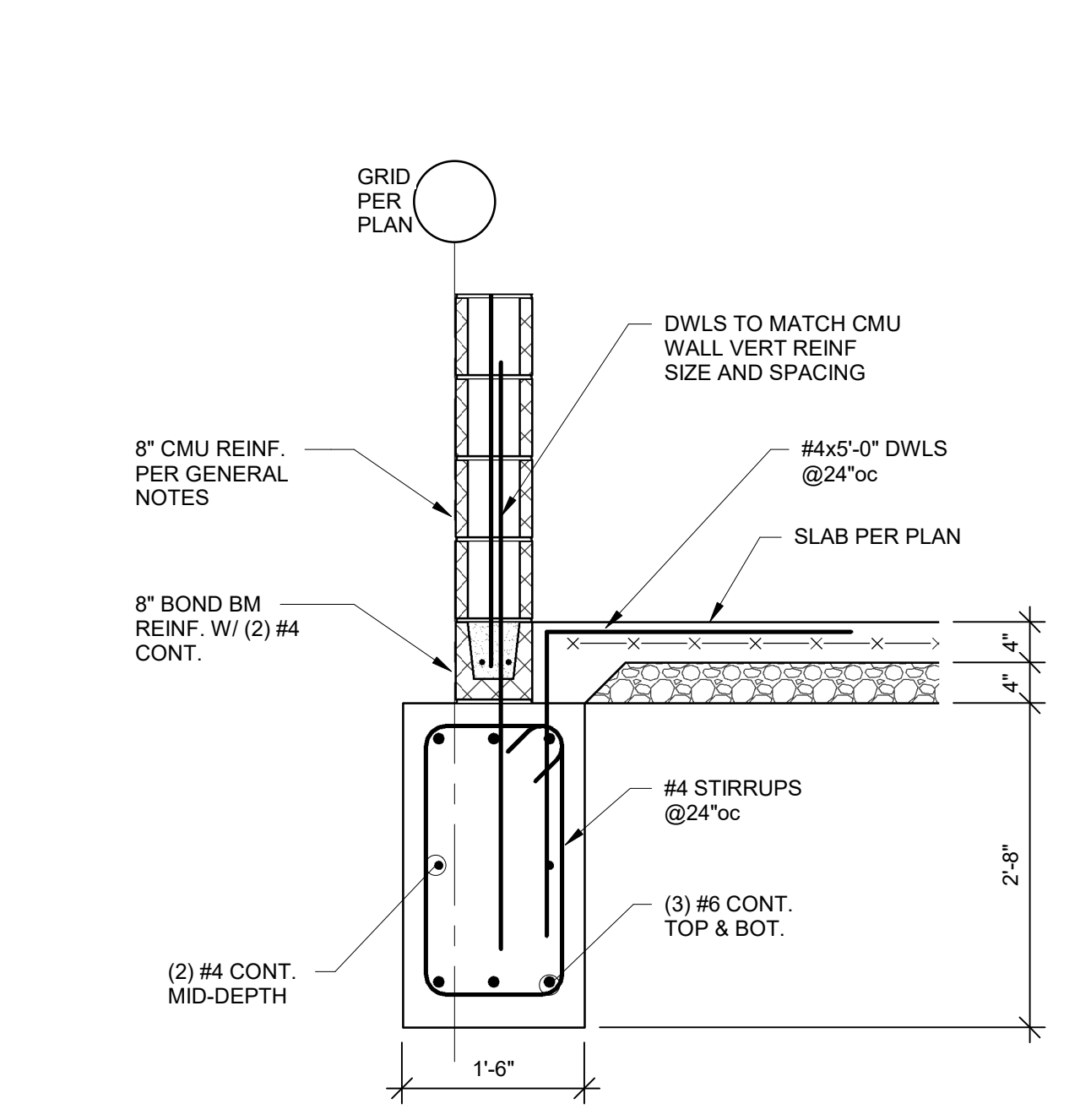
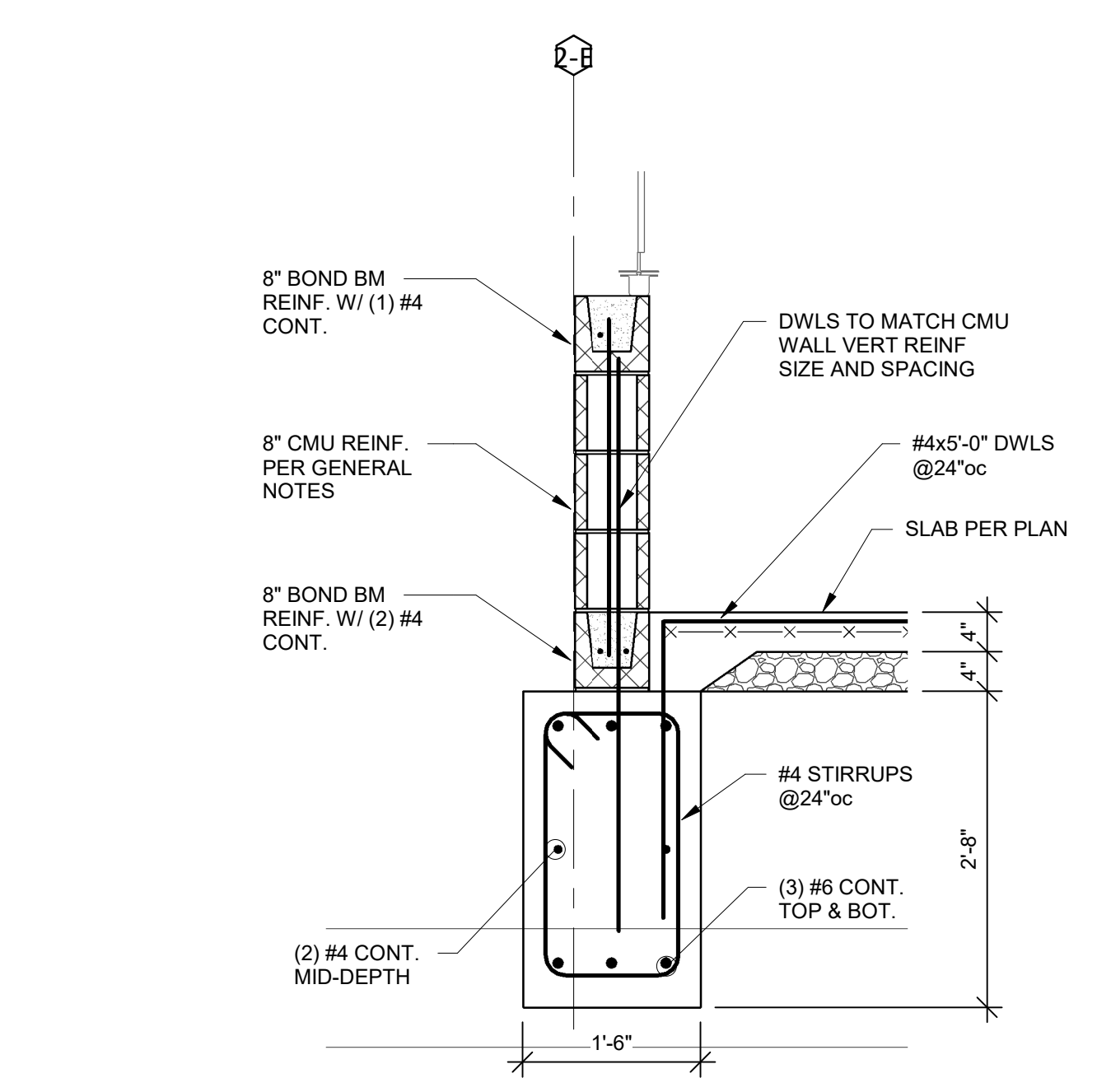
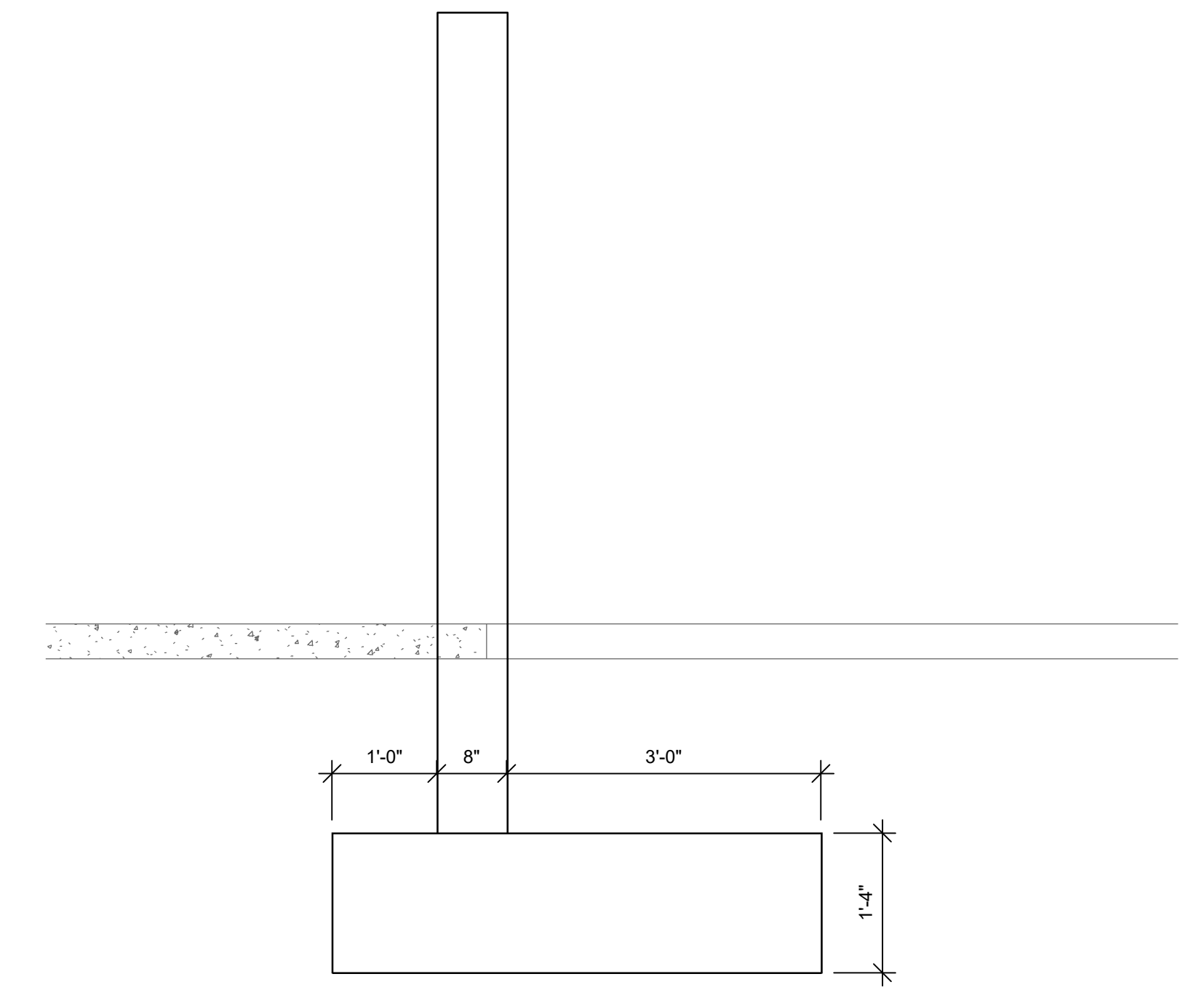
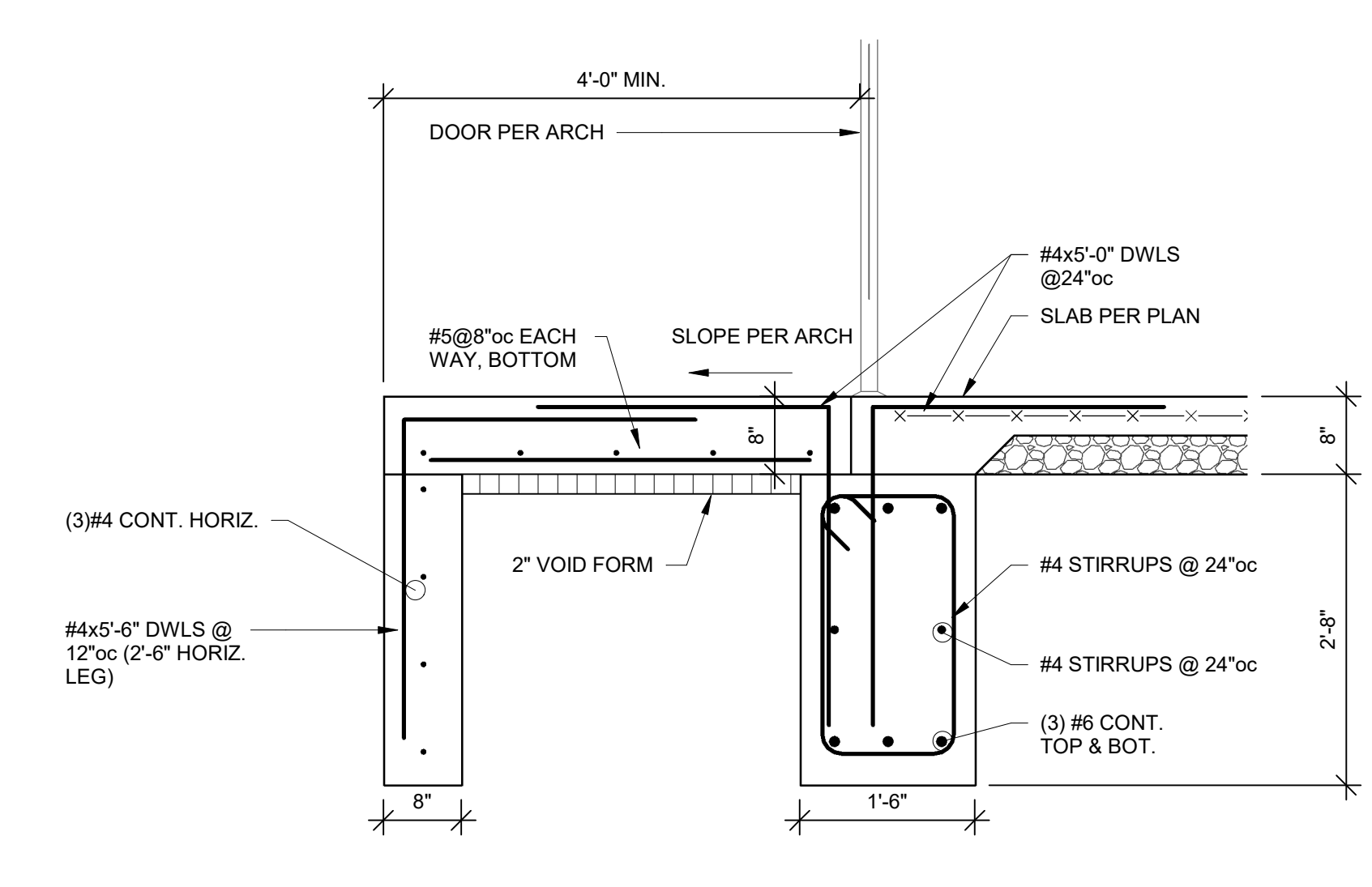
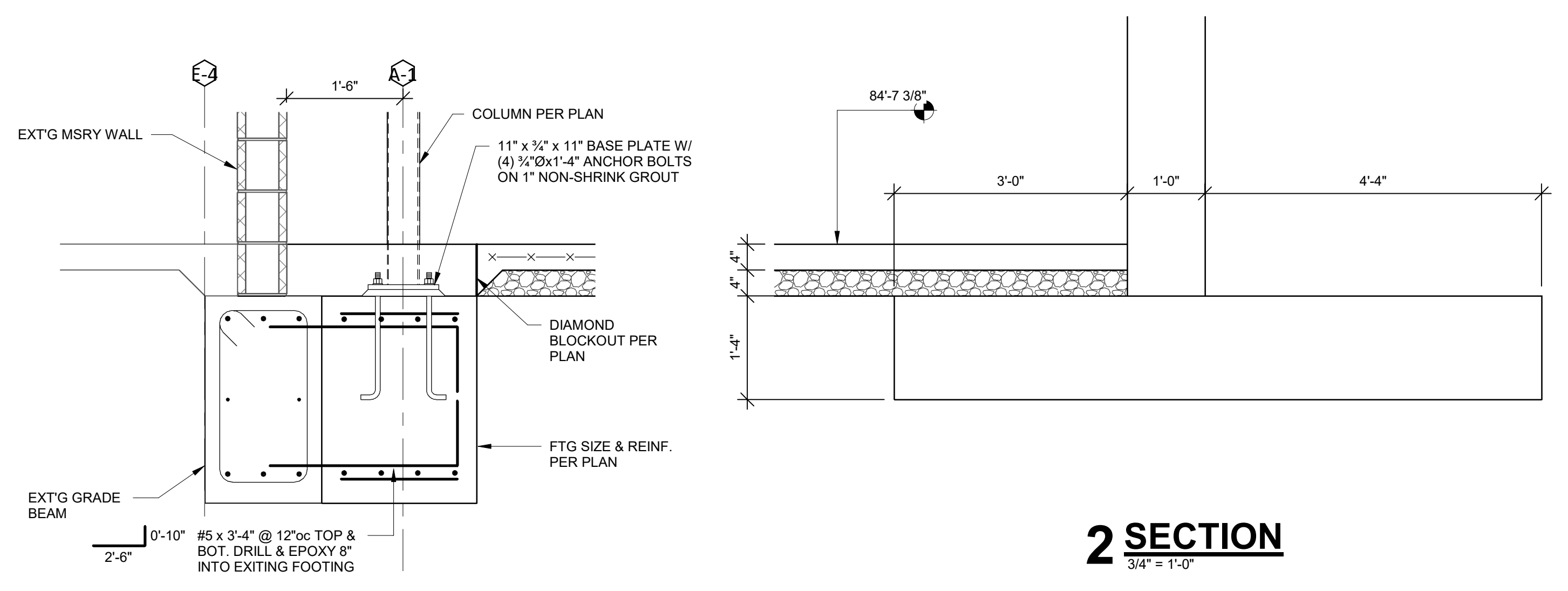
owner:
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301 NE Tudor Road
Lee's Summit, MO 64086

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REVISIONS

Number	DESCRIPTION	DATE

PROJECT NO: 0119-0101
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Foundation Sections
H-S201
BID SET

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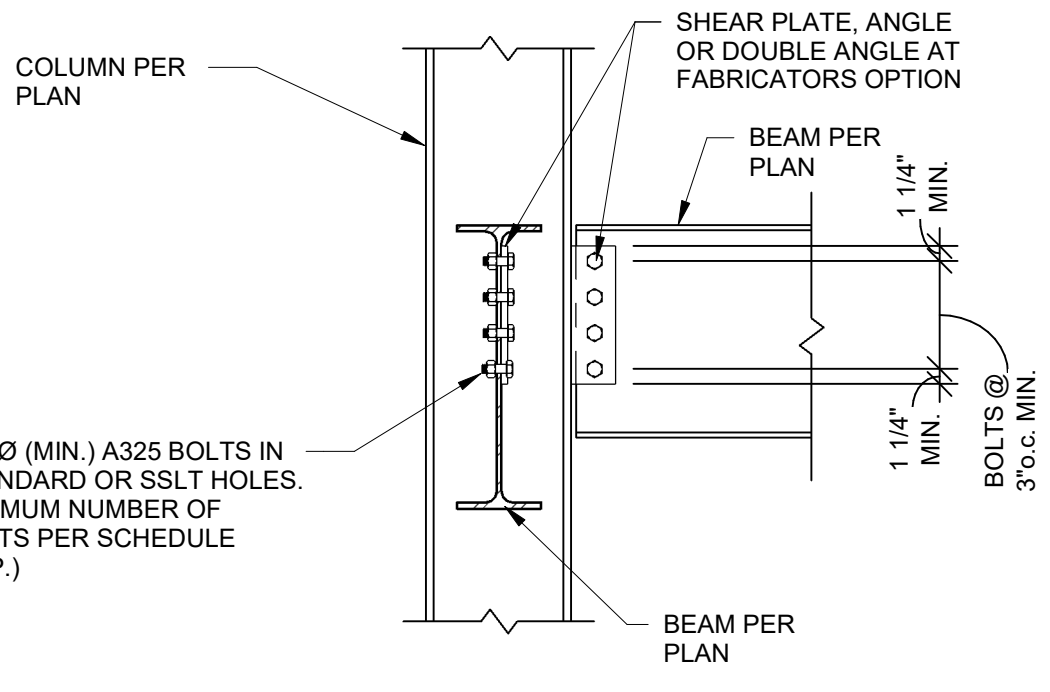
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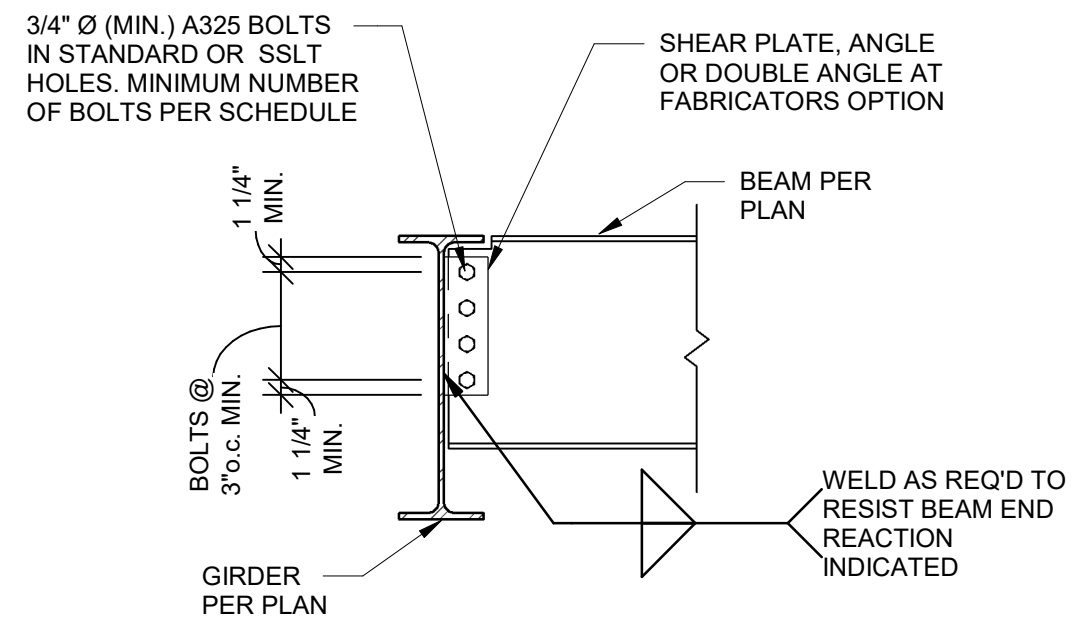
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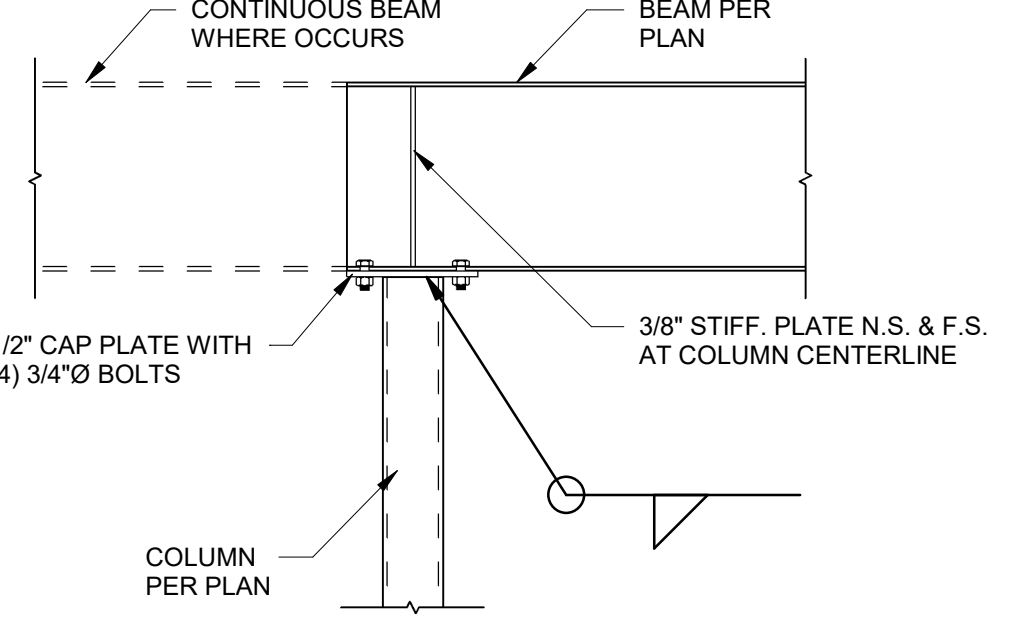
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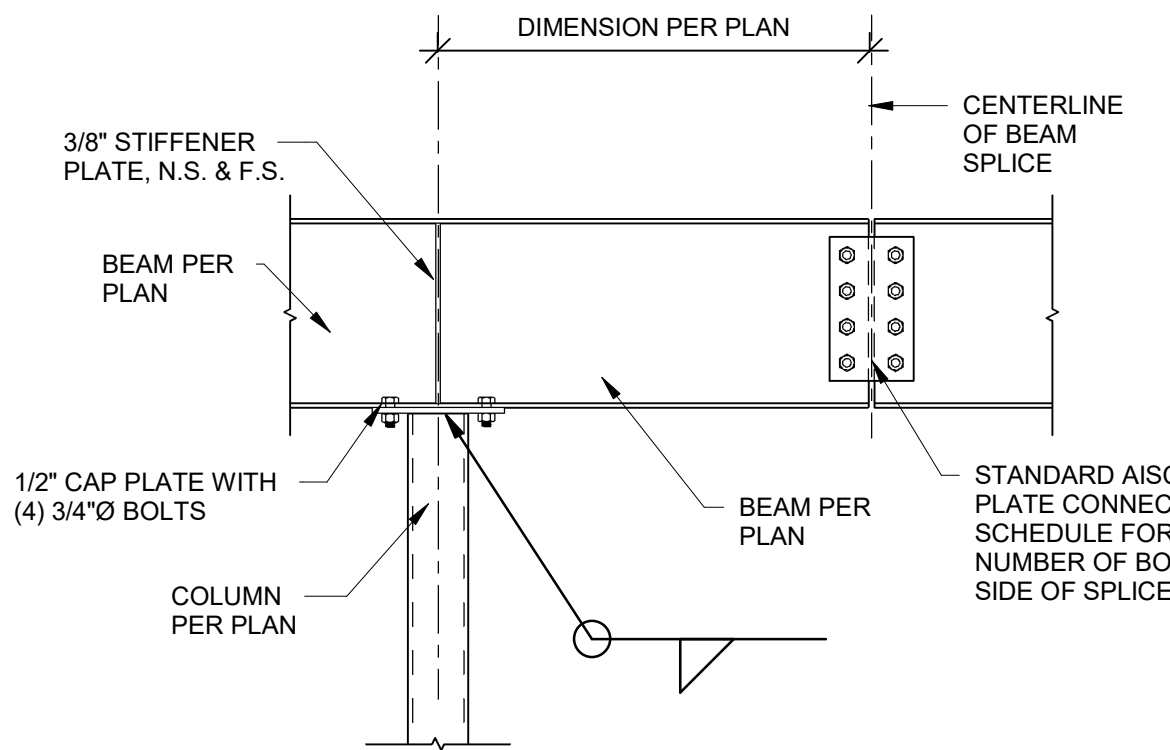
1 DETAIL
3/4" = 1'-0"



2 DETAIL
3/4" = 1'-0"



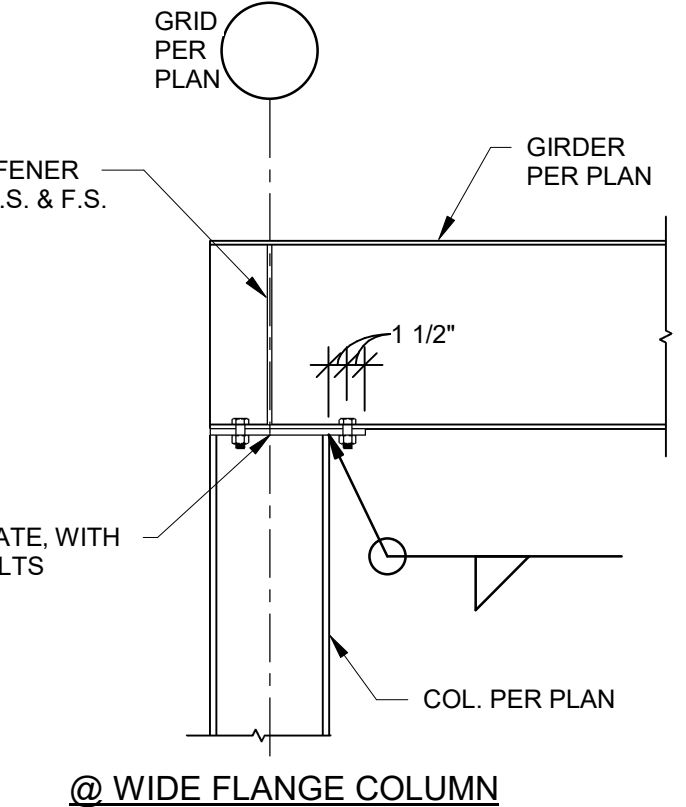
3 DETAIL
3/4" = 1'-0"



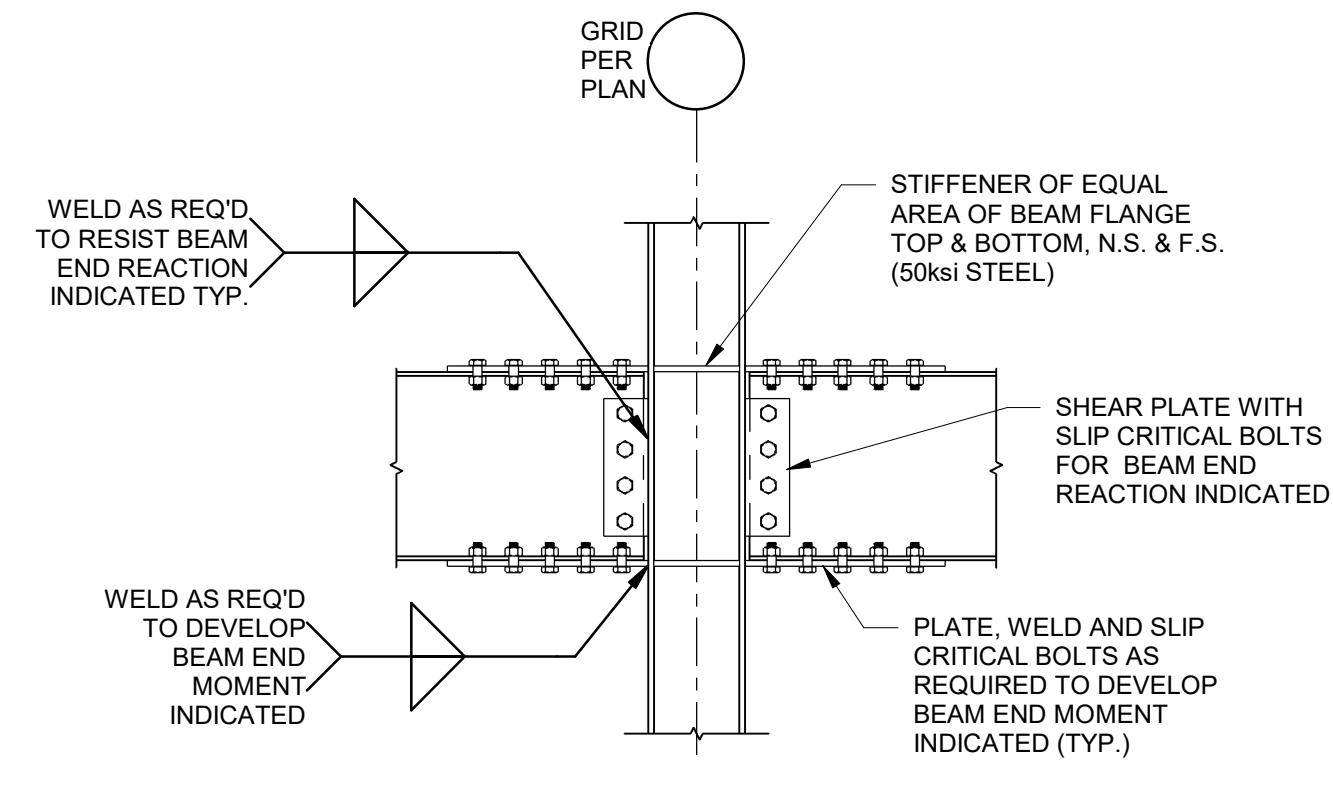
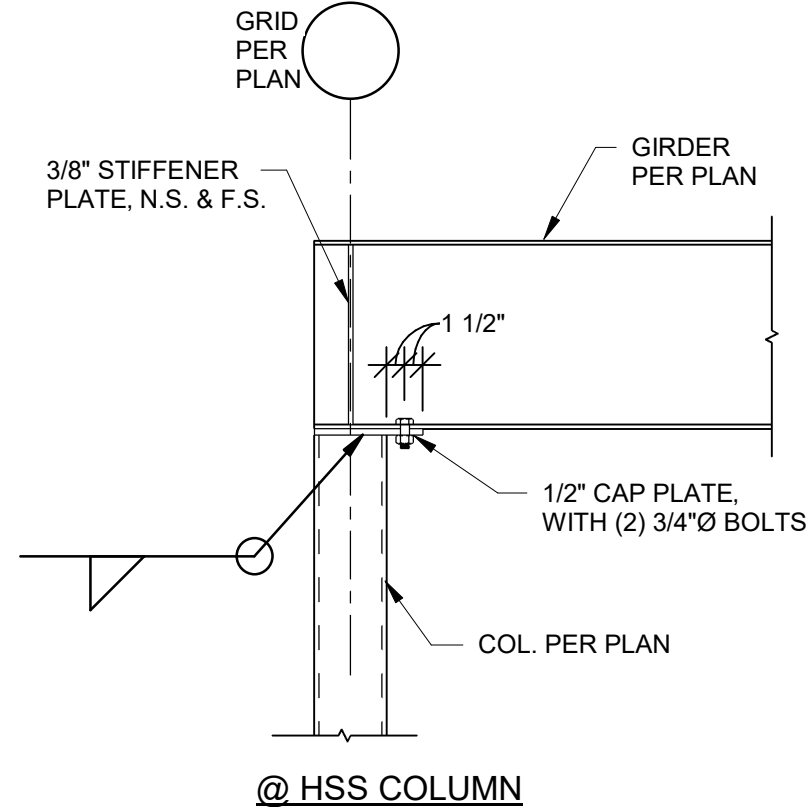
4 DETAIL
3/4" = 1'-0"

- STEEL CONNECTION NOTES:**
- REFER TO GENERAL NOTES ON SHEET H-5001.
 - CONNECTIONS SHOWN IN THESE DETAILS ARE MINIMUM REQUIREMENTS.
 - FABRICATOR SHALL BE RESPONSIBLE FOR THE ENGINEERING, DESIGNING, AND DETAILING OF EACH CONNECTION FOR LOADS SHOWN ON THE DRAWINGS IN ACCORDANCE WITH THE SPECIFICATIONS AND THE STRUCTURAL GENERAL NOTES.
 - SUGGESTED CONNECTION DETAILS ARE SHOWN. FINAL CONNECTION CONFIGURATION AND DESIGN SHALL BE COMPLETED BY THE CONNECTION ENGINEER. CONNECTION DESIGN SHALL INCLUDE COLUMN OR BEAM CONTINUITY PLATES, WEB STIFFENERS, AND/OR DOUBLER PLATES AS REQUIRED FOR THE FORCES INDICATED.
 - FABRICATOR MAY OPT TO USE OTHER AISC APPROVED CONNECTIONS IN LIEU OF THESE SHOWN HEREIN TO MEET END REACTION REQUIREMENTS (i.e. DOUBLE ANGLE CONNECTION).
 - CONNECTION DETAILING SHALL COMPLY WITH THE STANDARD DETAILS SHOWN IN THE LATEST EDITION OF THE AISC MANUAL OF STEEL CONSTRUCTION.
 - ALL BOLTS SHALL BE 3/4" Ø ASTM A325 MINIMUM.
 - ALL BOLTS SHALL BE SPACED AT 3" o.c. MINIMUM.
 - ALL BOLTS SHALL HAVE HEAVY HEX NUTS.
 - ALL BOLTS SHALL BE FULLY PRE-TENSIONED.
 - BOLT SPACING AND EDGE DISTANCES SHALL BE ADJUSTED PER AISC MANUAL FOR BOLTS LARGER THAN 3/4" DIAMETER.
 - FOR BEAMS WITH AXIAL LOADS PER DRAWINGS, BOLTS AND CONNECTIONS SHALL BE SLIP-CRITICAL PER AISC GUIDELINES. INCREASE NUMBER OF BOLTS AND/OR PROVIDE EXTENDED SHEAR PLATE CONNECTION W/ AN ADDITIONAL COLUMN OF BOLTS TO ACCOMMODATE COMBINED FORCES.
 - CLIP ANGLES MAY BE SHOP WELDED TO BEAM WEB PER AISC.
 - FOR BEAMS WITH AXIAL LOADS PER DRAWINGS, BOLTS AND CONNECTIONS SHALL BE SLIP-CRITICAL PER AISC GUIDELINES. INCREASE NUMBER OF BOLTS AND/OR PROVIDE EXTENDED SHEAR PLATE CONNECTION W/ AN ADDITIONAL COLUMN OF BOLTS TO ACCOMMODATE COMBINED FORCES.
 - PROVIDE ASTM A490 BOLTS IF REQUIRED TO MEET END REACTION LOAD REQUIREMENTS.
 - REFER TO ELEVATIONS ON SHEET H-5400 FOR BRACE FORCES. REFER TO PLANS FOR ADDITIONAL BEAM AXIAL FORCES. BRACE AND BEAM FORCES INDICATED ARE UNFACTORED (ASD) LOADS AND SHALL BE CONSIDERED CONCURRENT W/ BEAM SHEAR DESIGN FORCES LISTED IN THE BEAM SHEAR CONNECTION SCHEDULE.
 - COORDINATE BRACED FRAME CONNECTION W/ ARCHITECTURAL WALLS AS REQUIRED TO AVOID CONFLICT OR EXPOSURE OUTSIDE OF WALL OR FINISH.
 - ALL END REACTIONS INDICATED ARE UNFACTORED (ASD) LOADS.

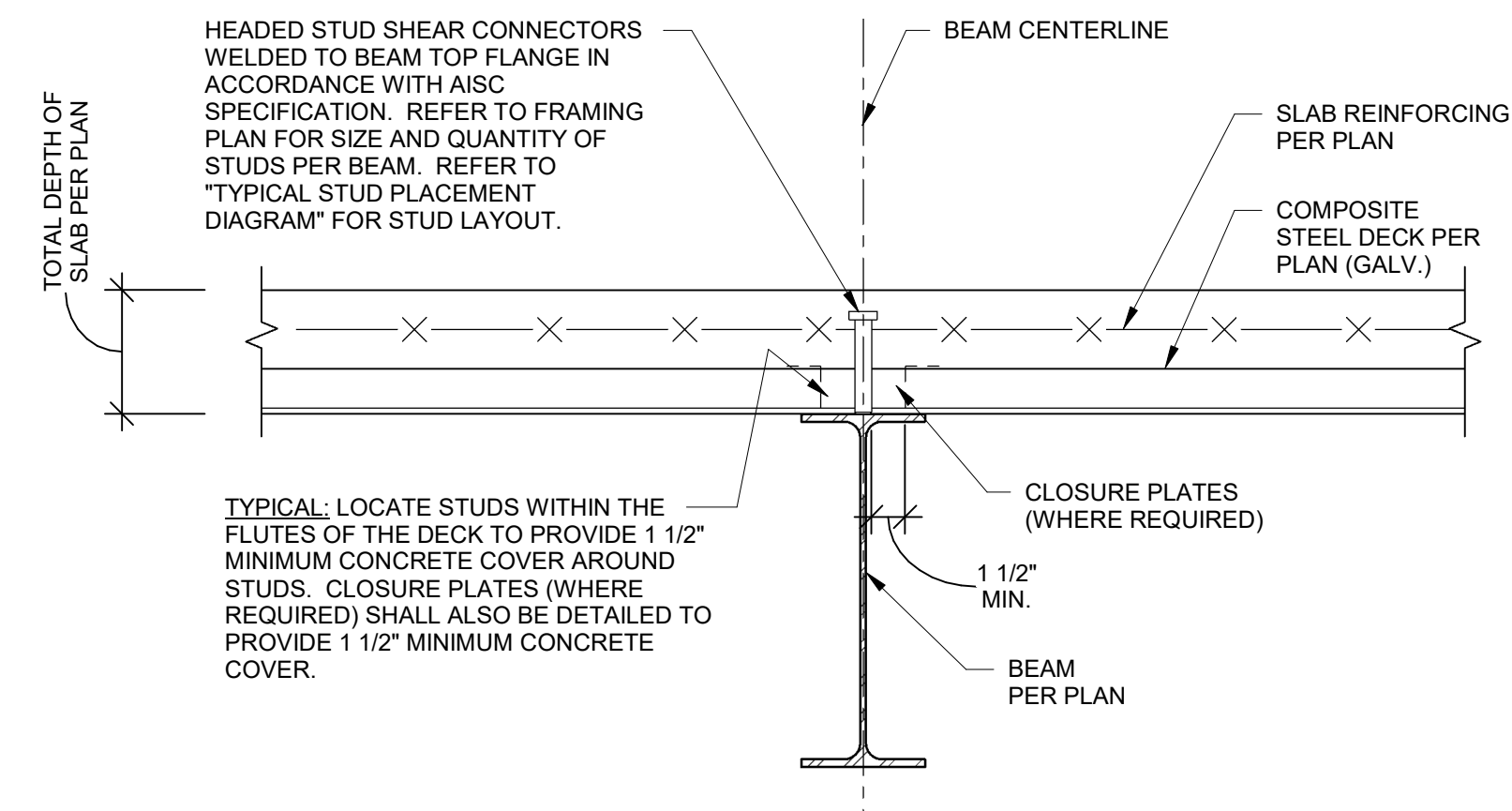
BEAM SHEAR CONNECTION SCHEDULE		
BEAM SIZE	MINIMUM ROWS OF BOLTS	END REACTION (U.N.O.)
W8, C8, HSS8 W10, C10	2	10 KIPS
W12, C12, HSS12	2	15 KIPS
W14, W16	3	30 KIPS



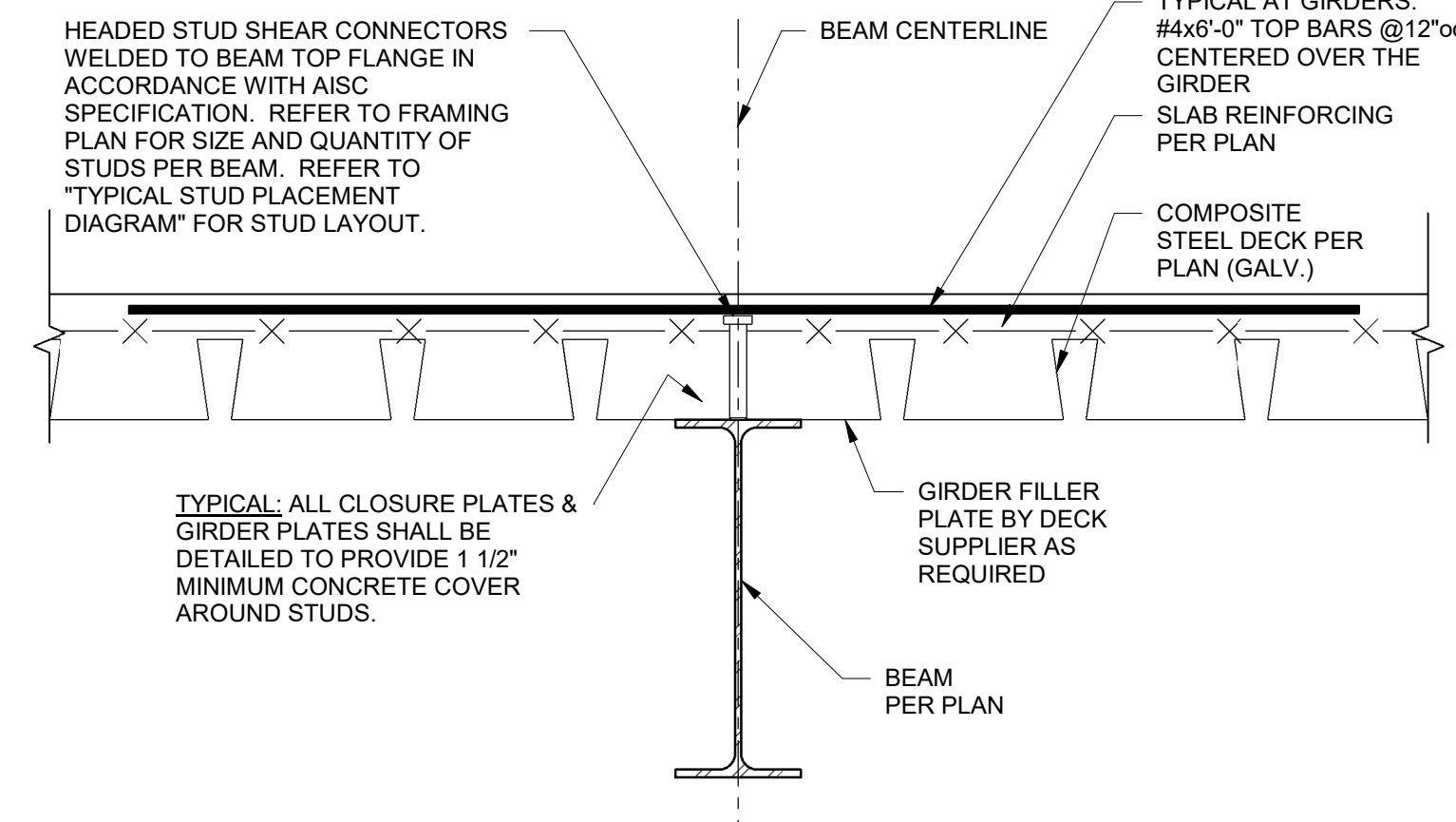
5 SECTION
3/4" = 1'-0"



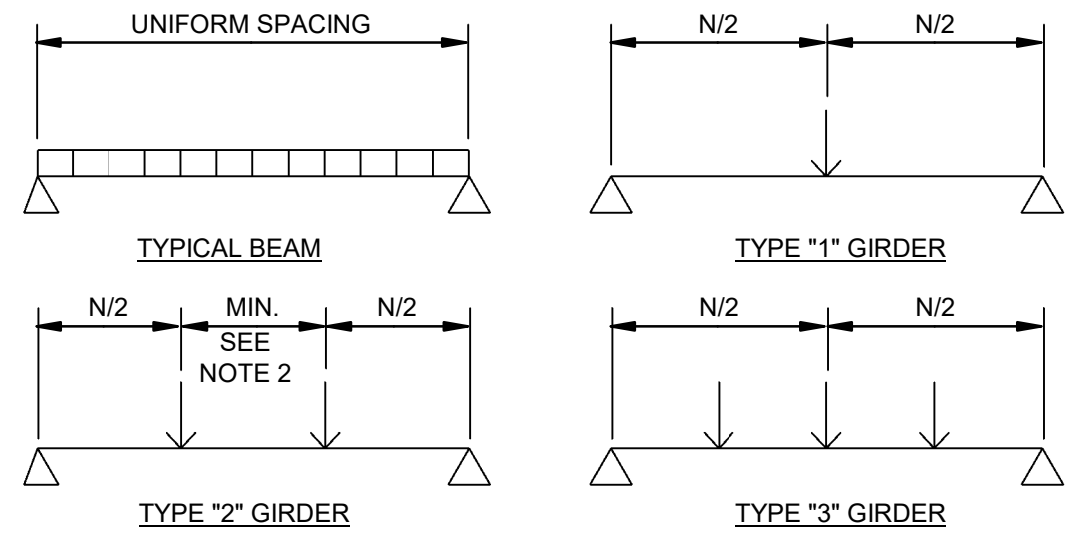
6 SECTION
3/4" = 1'-0"



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



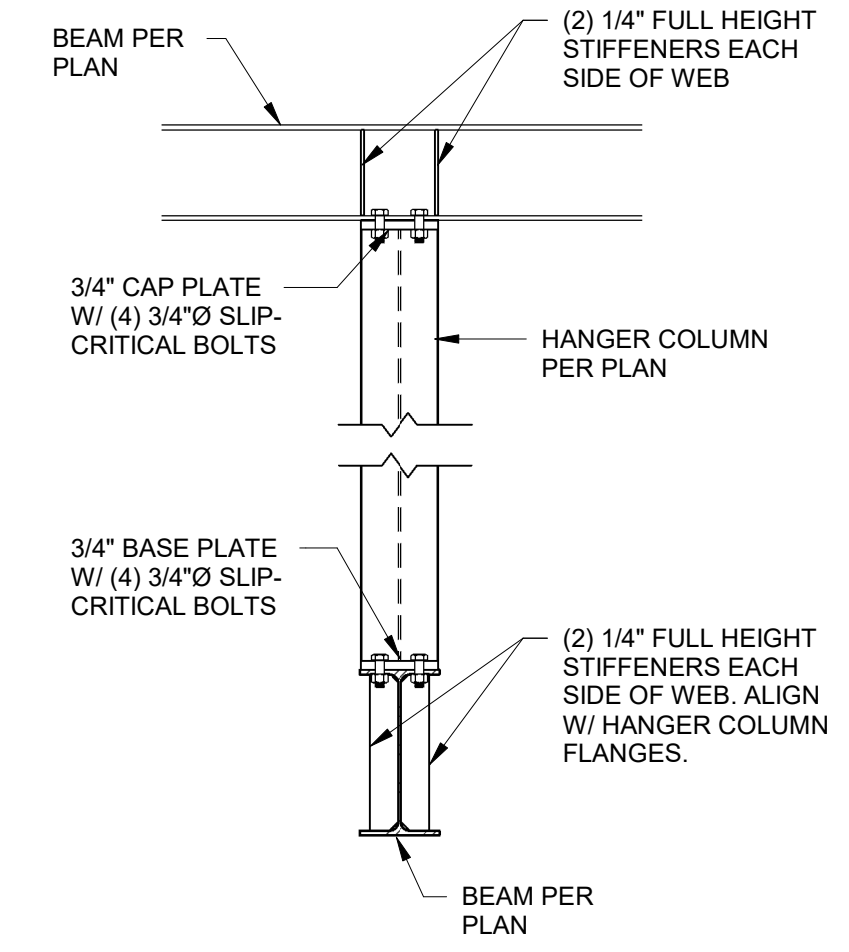
8 SECTION
1 1/2" = 1'-0"



TYPICAL STUD PLACEMENT DIAGRAM

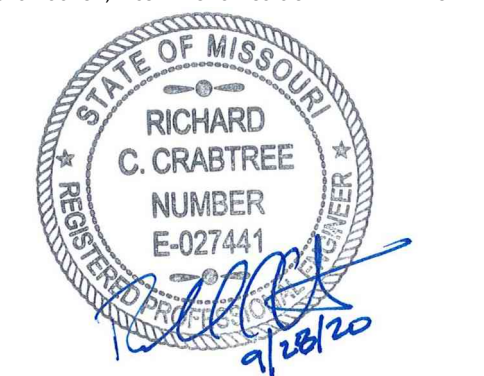
- ALL DIAGRAMS REPRESENT IDEALIZED CONDITIONS. ACTUAL FRAMING CONFIGURATIONS MAY REQUIRE ADDITIONAL INTERPRETATION.
- MAXIMUM SPACING OF STUDS SHALL BE 36" o.c. IF STUD SPACING EXCEEDS 12" o.c. PROVIDE 80" DIA. PUDDLE WELD ATTACHMENT SUCH THAT THE MAXIMUM AVERAGE SPACING OF STUD WELD ATTACHMENT IS 12" o.c., AND MAXIMUM SPACING BETWEEN ATTACHMENTS IS 18".
- THE NUMBER OF STUDS PER BEAM SHOWN ON THE DRAWINGS IS BASED ON AN ASSUMED DESIGN VALUE OF 13.3 KIPS/STUD. THE ACTUAL NUMBER OF STUDS PER BEAM (N) MAY VARY BASED ON WIDTH, DECK DEPTH, NUMBER OF STUDS PER CELL, DECK RIB ORIENTATION, ETC. AS PER AISC SPECIFICATIONS FOR COMPOSITE CONSTRUCTION. METAL DECK CONTRACTOR SHALL SUBMIT ALL CALCULATIONS VERIFYING THE HORIZONTAL SHEAR CAPACITY OF SHEAR STUDS DETAILED ON SHOP DRAWINGS AND PROVIDE THE STUDS REQUIRED.
- SHEAR CONNECTOR PLACEMENT SHALL BE FULLY DETAILED ON THE METAL DECK SHOP DRAWINGS.

9 TYPICAL STUD PLACEMENT
3/4" = 1'-0"



10 SECTION
3/4" = 1'-0"

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DATE: September 28, 2020

18 | 17 | 16 | 15 | 14 | 13 | 12 | 11 | 10 | 9 | 8 | 7 | 6 | 5 | 4 | 3 | 2 | 1

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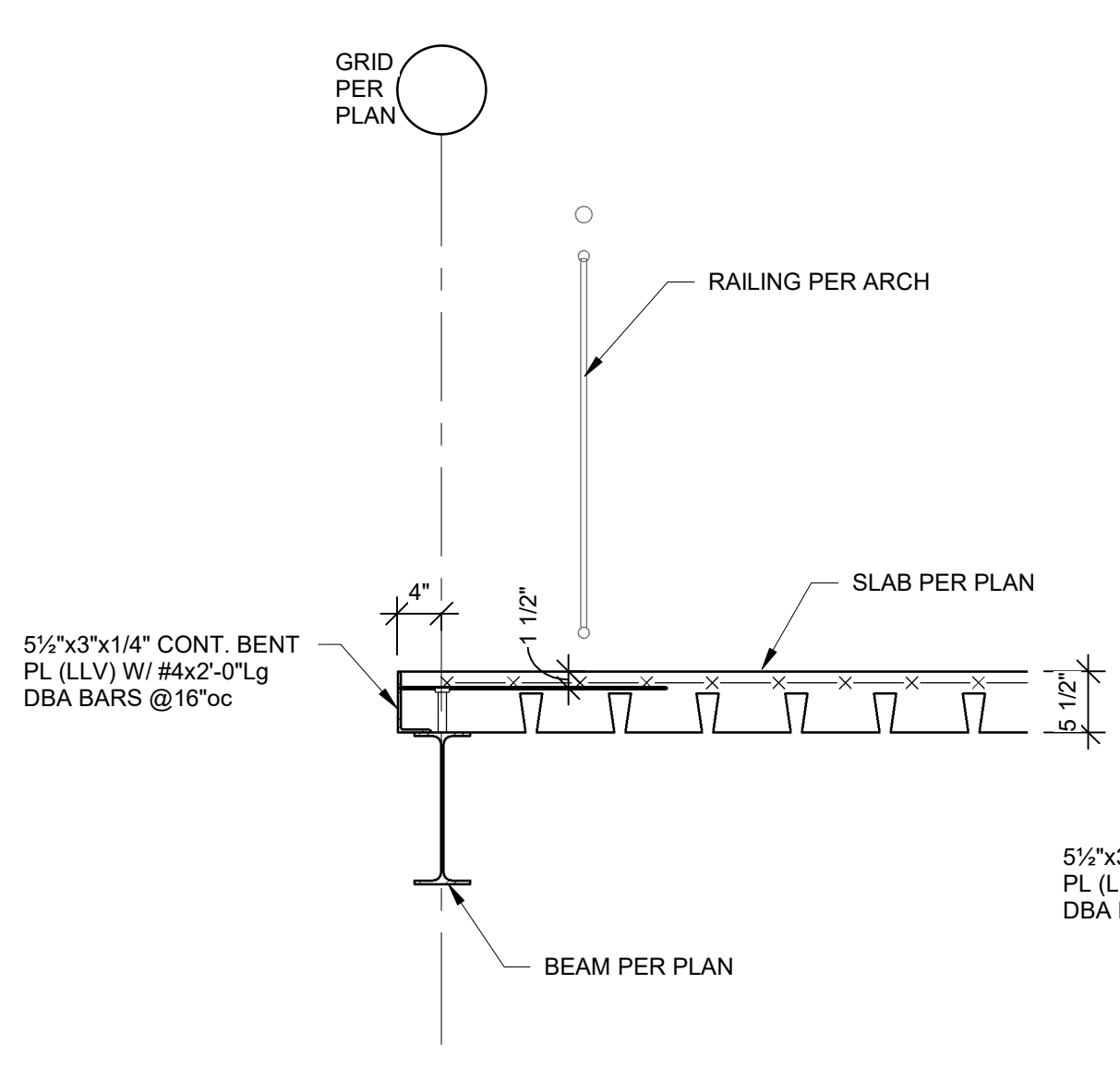
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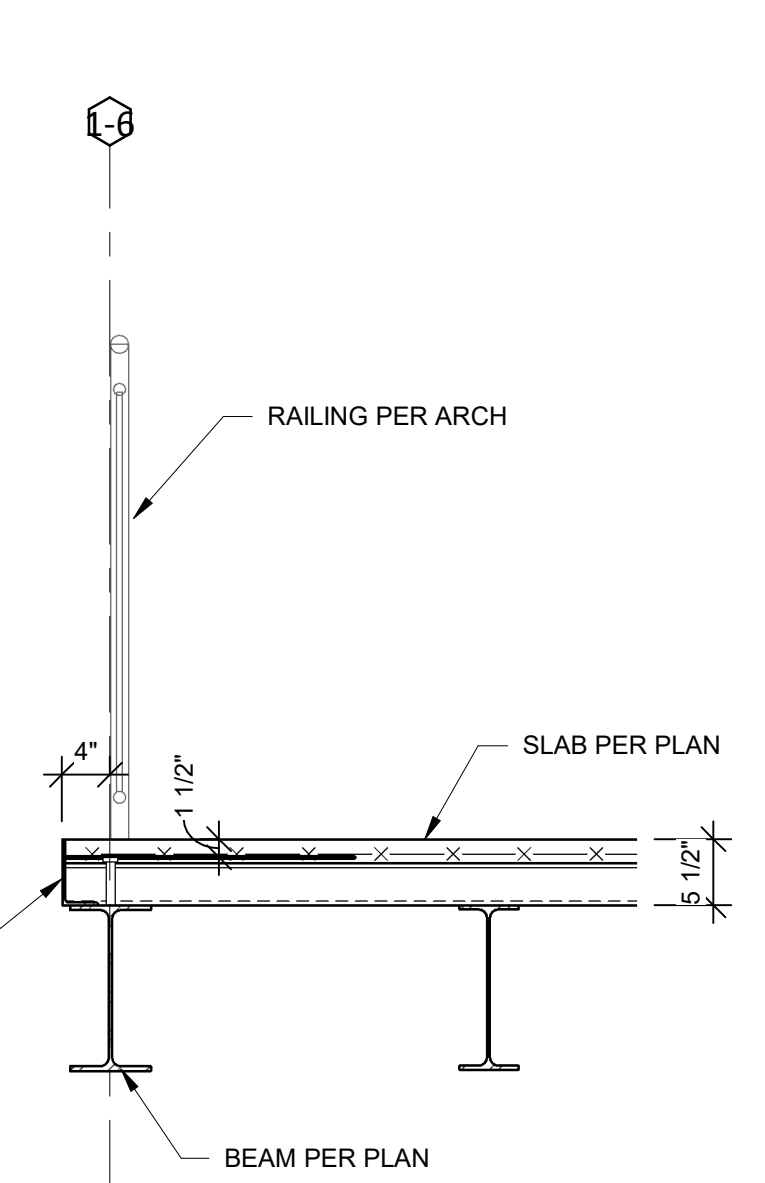
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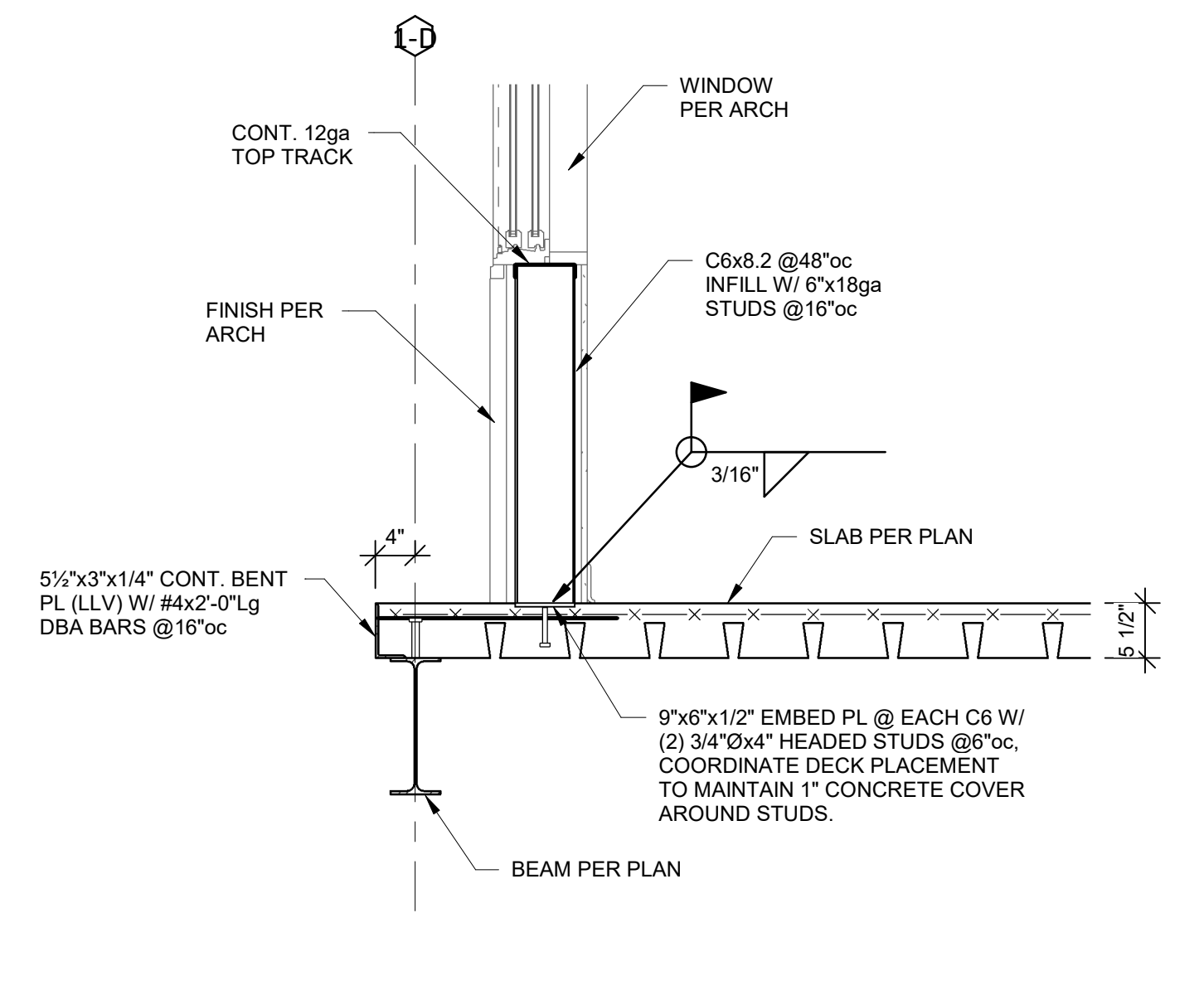
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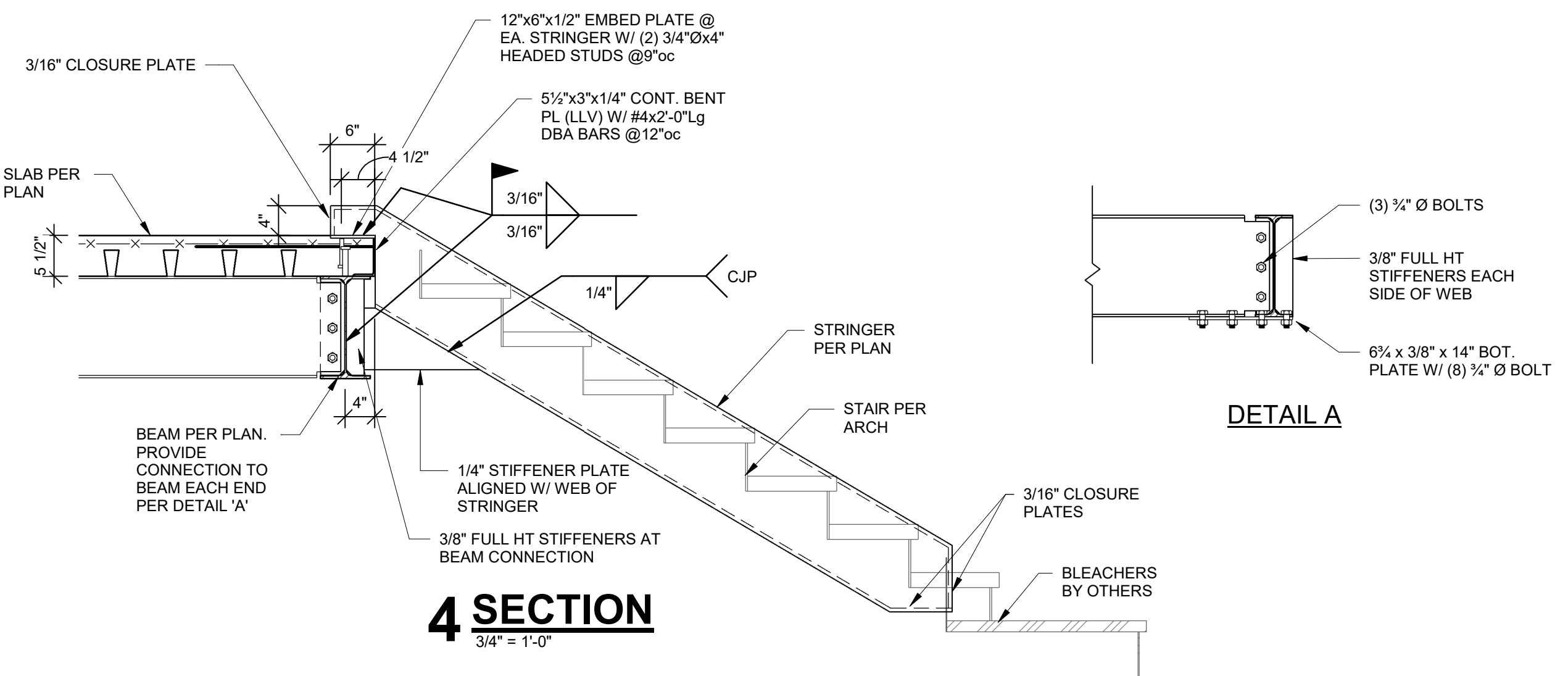
1 SECTION
3/4" = 1'-0"



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3/4" = 1'-0"

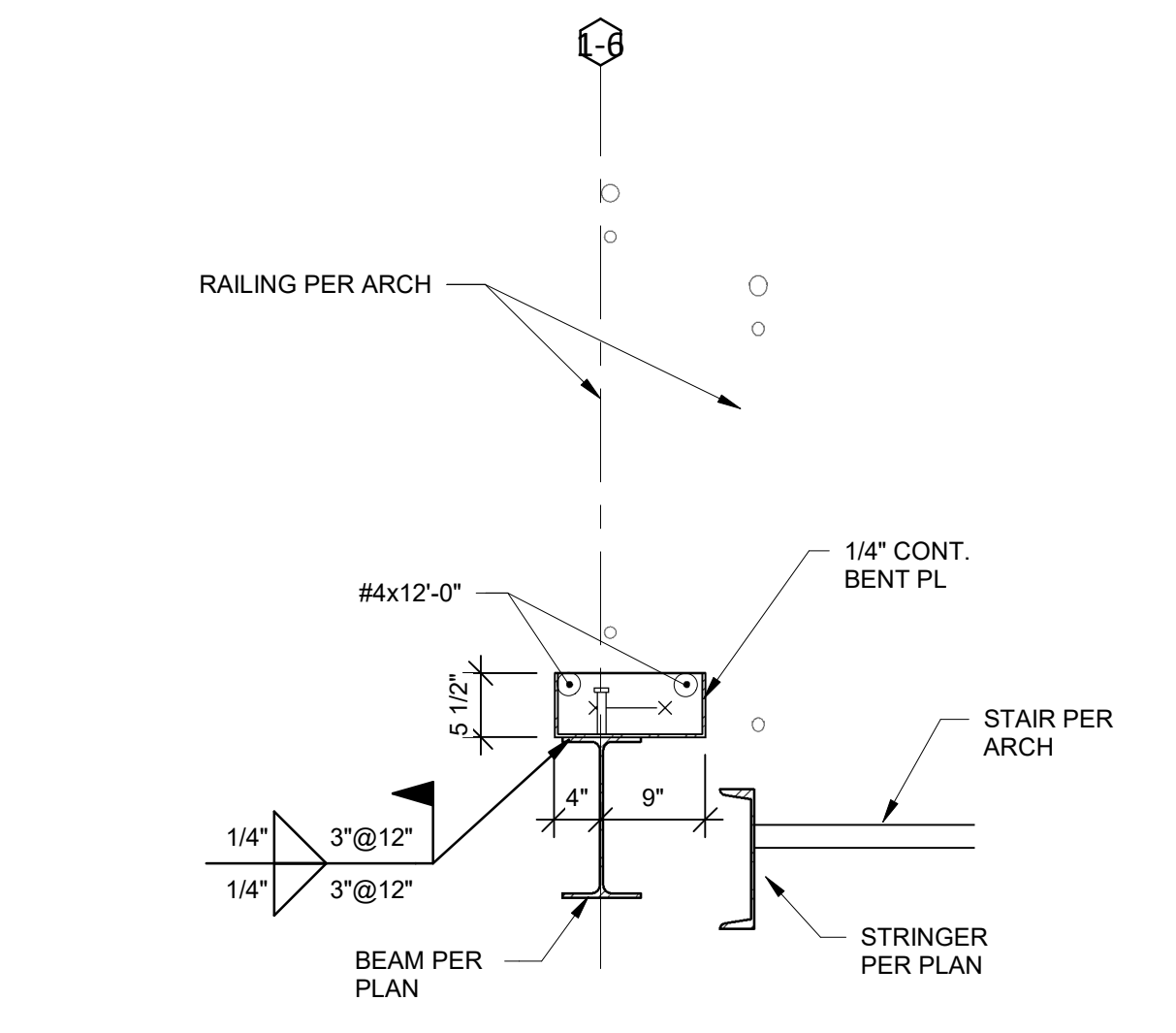
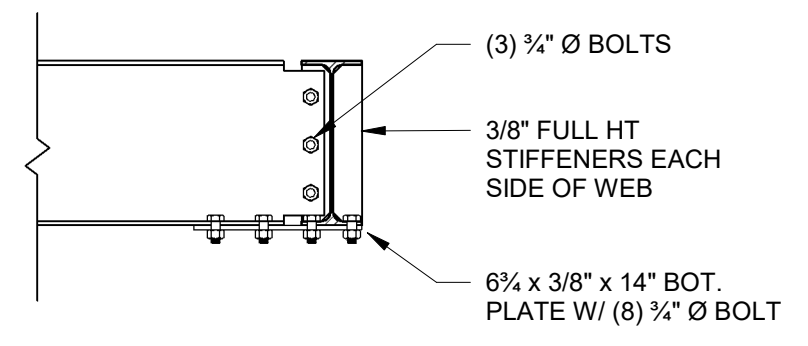


3 SECTION
3/4" = 1'-0"

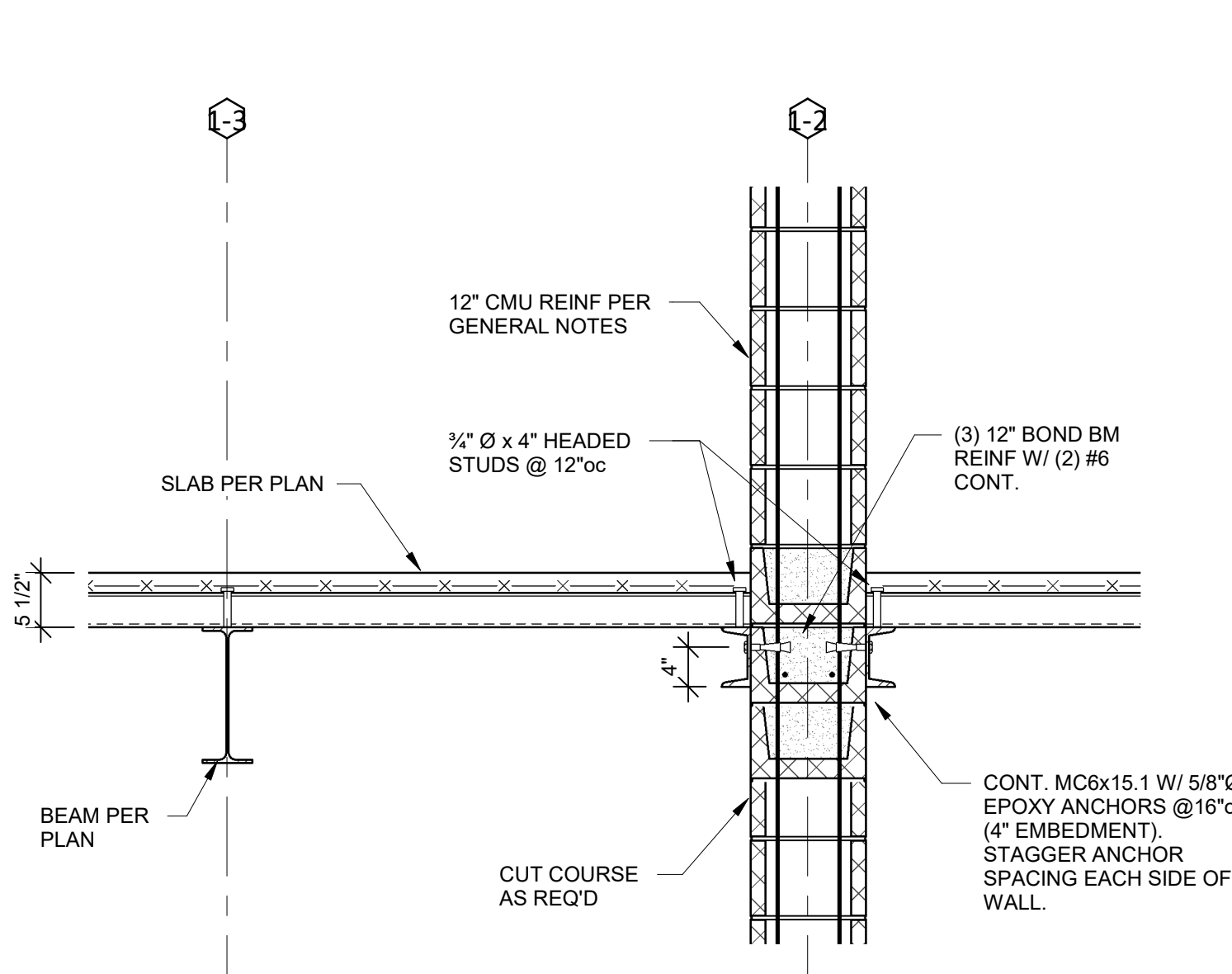


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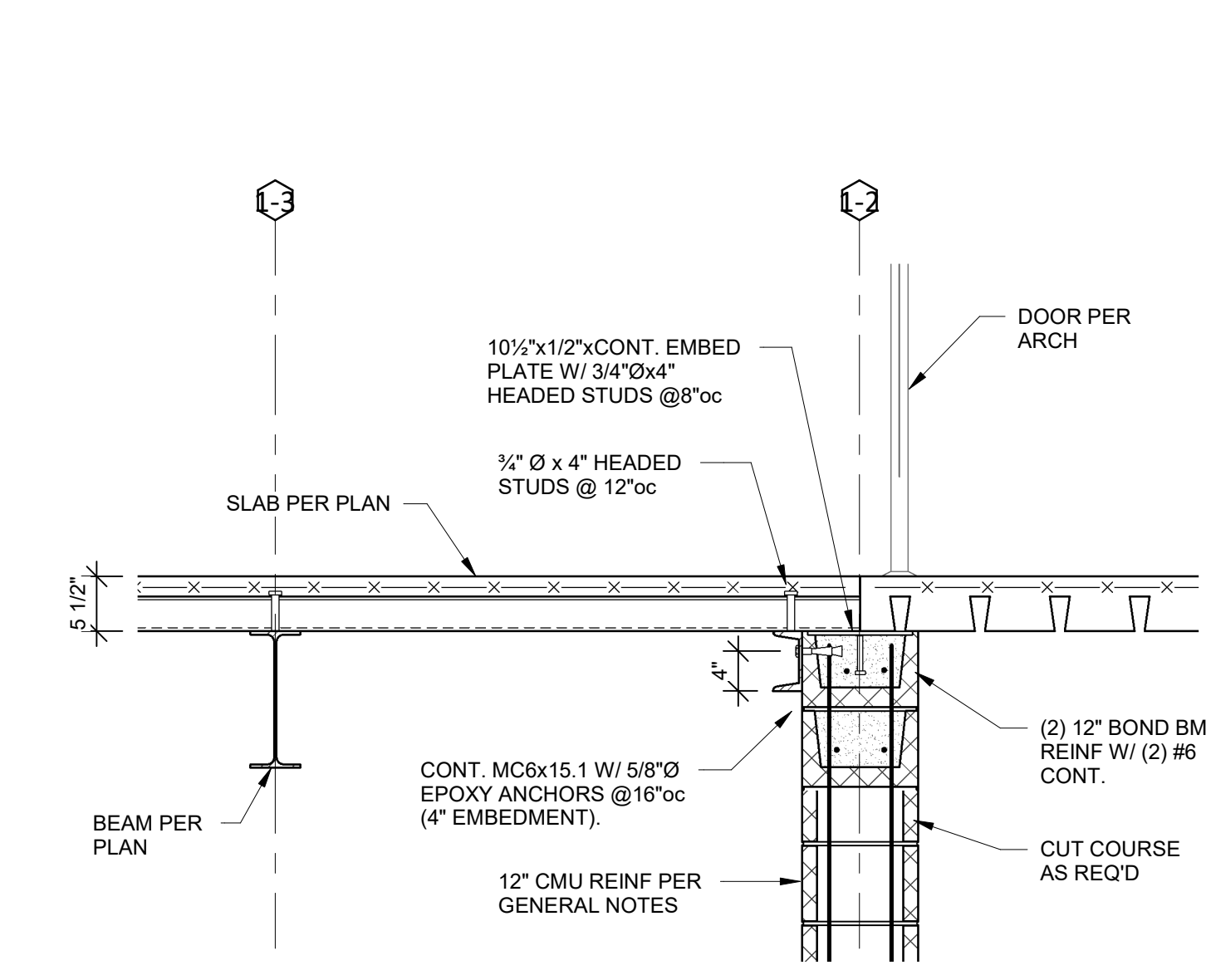
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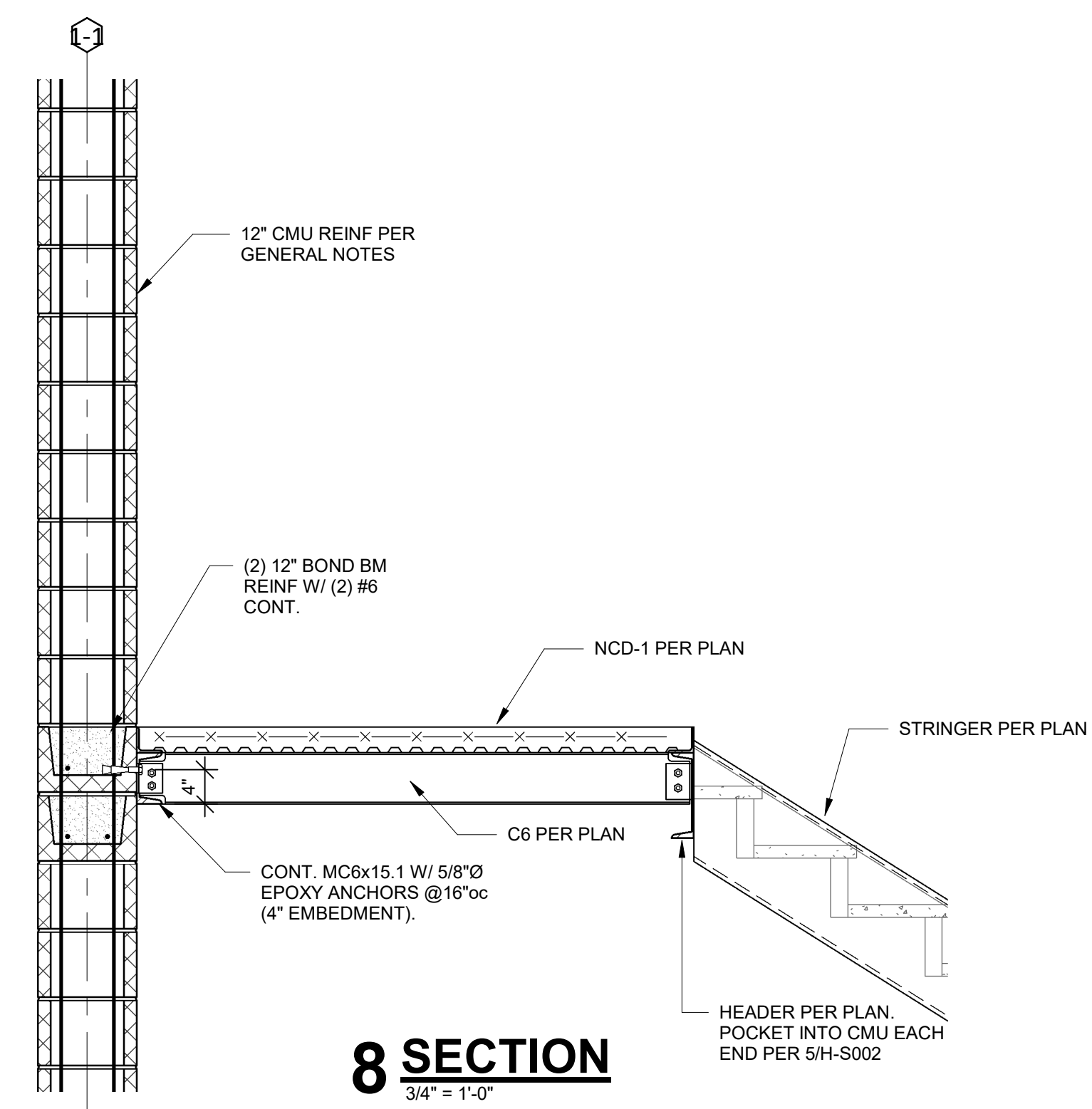
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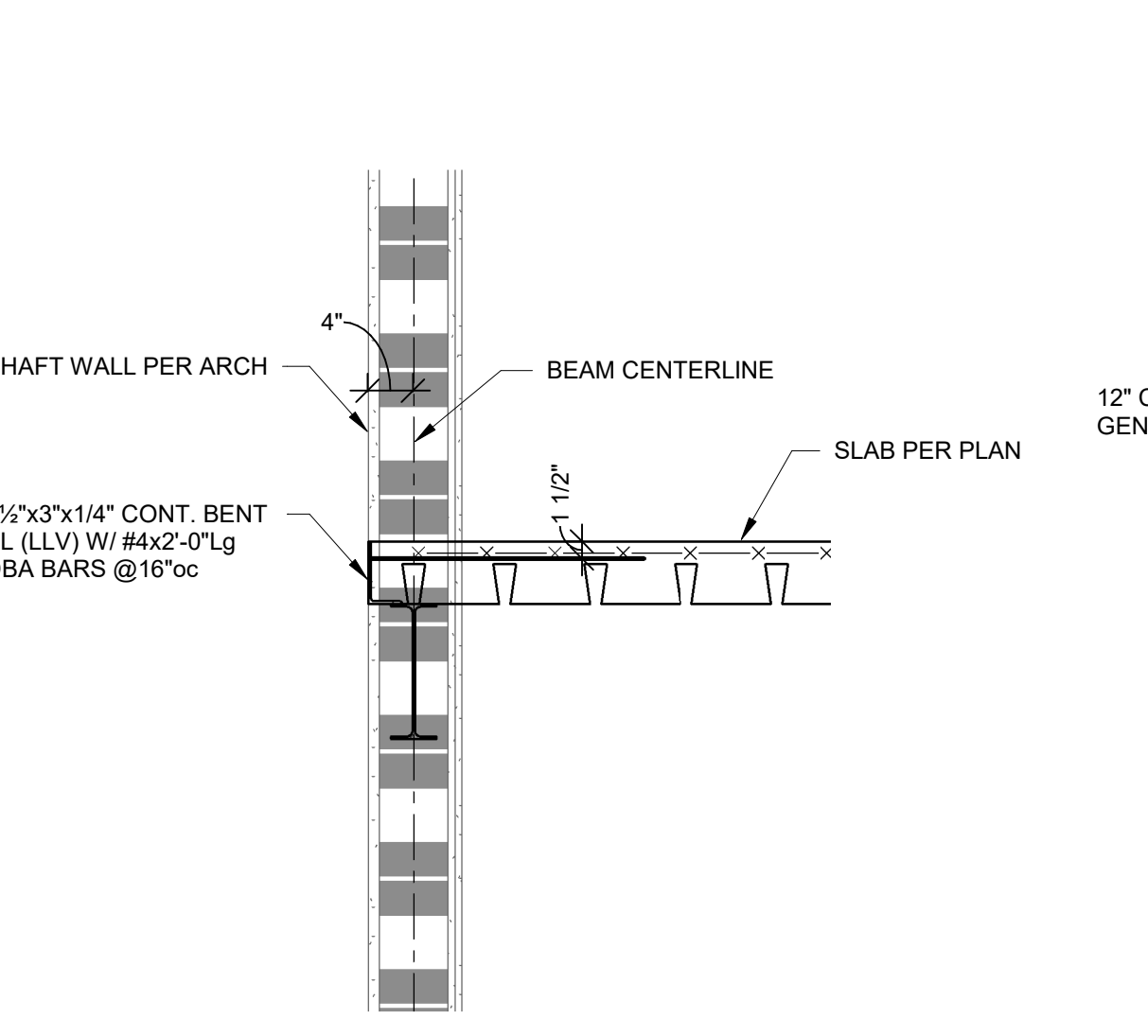
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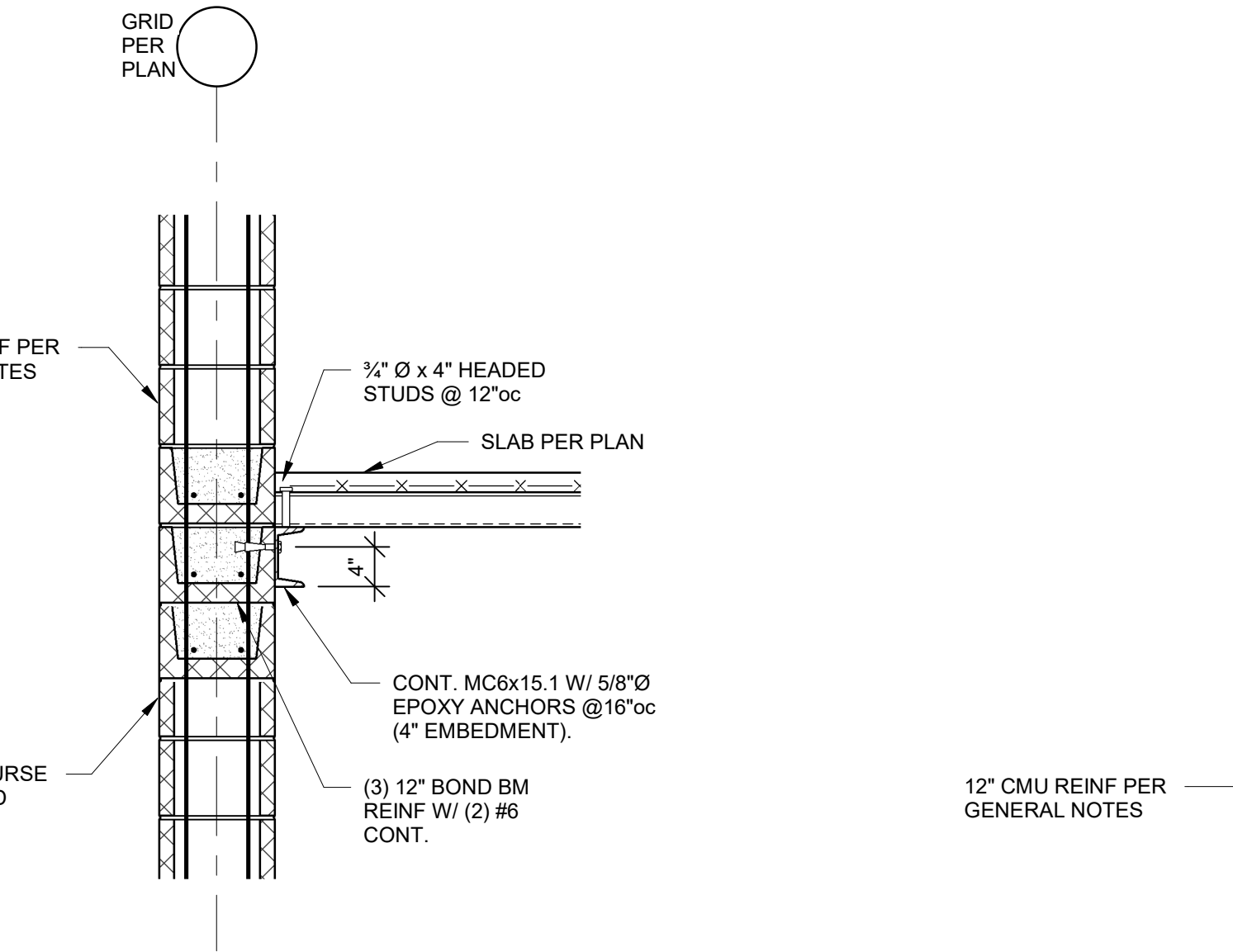
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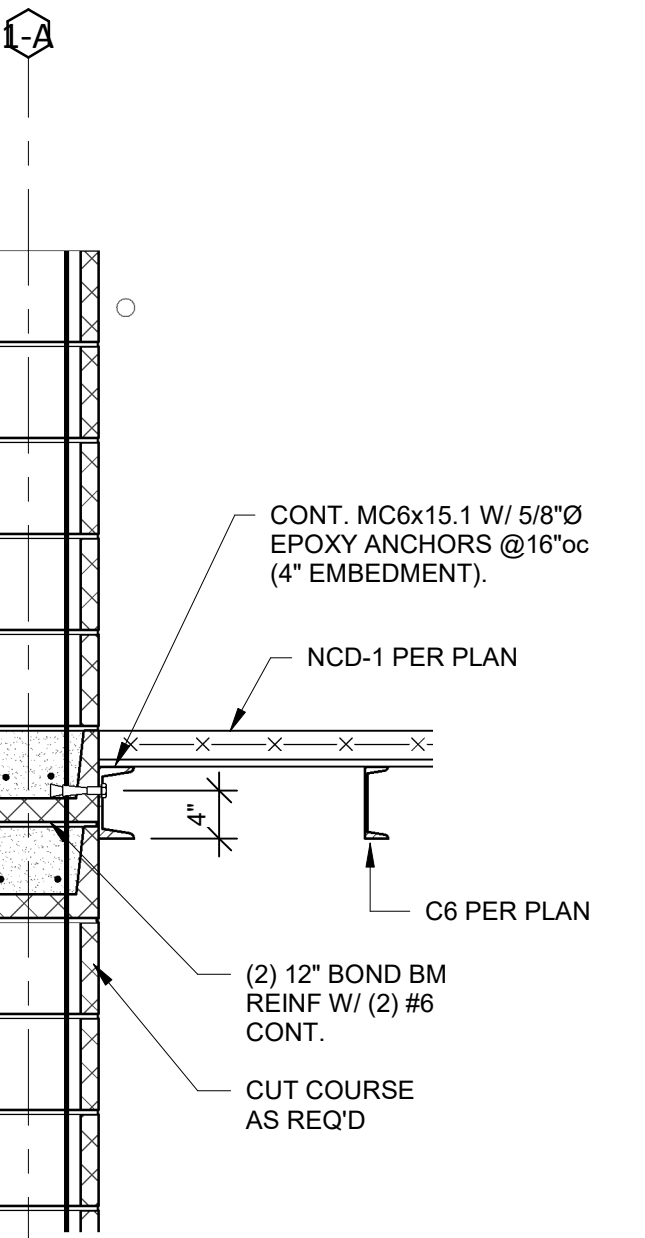
8 SECTION
3/4" = 1'-0"



9 SECTION
3/4" = 1'-0"



10 SECTION
3/4" = 1'-0"



11 SECTION
3/4" = 1'-0"

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Jane Doe Date: MM/DD/YYYY
License No. A-0000000

REVISIONS

Number	DESCRIPTION	DATE

PROJECT NO: 0119-0101
DATE: September 28, 2020

Framing Sections
H-S301
BID SET

**Lee's Summit R7 District
Athletics Facilities**

Lee's Summit High School
400 SE Blue Parkway
Lee's Summit, MO 64063

owner:
Lee's Summit R7 School District
301 NE Tudor Road
Lee's Summit, MO 64086

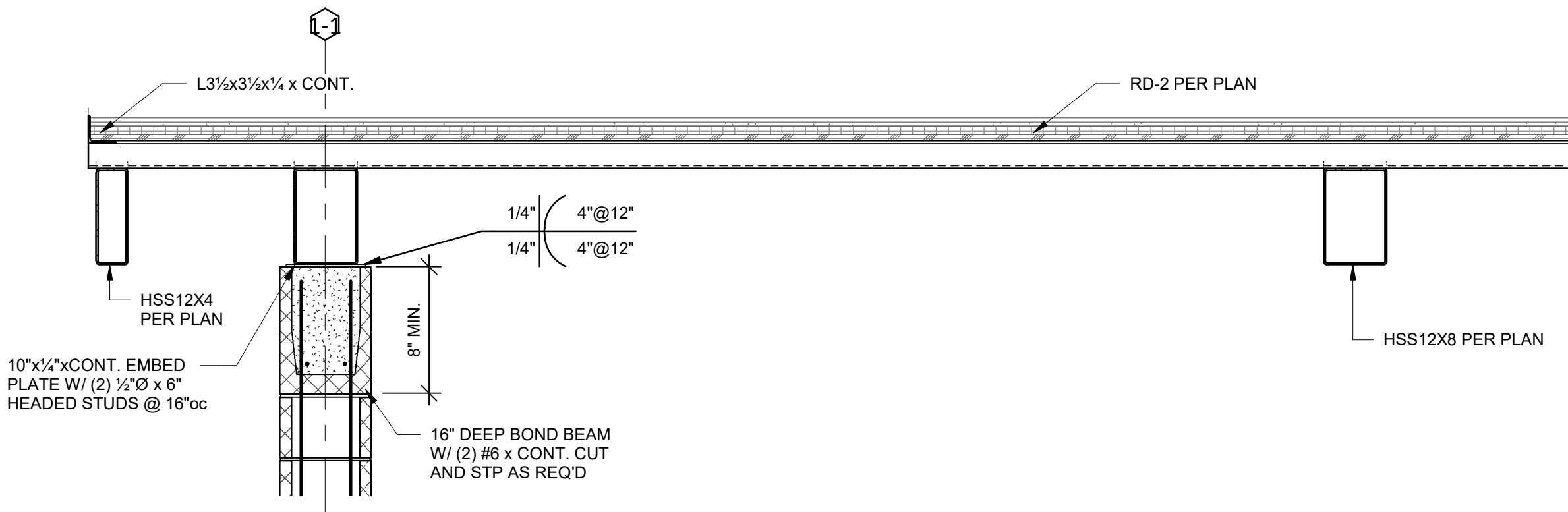
architect:
Gould Evans
4200 Pennsylvania Avenue
Kansas City, MO 64111
816.931.6655 voice
www.goulddevans.com

structural engineer:
Bob D. Campbell & Company, Inc.
4338 Bellevue Avenue
Kansas City, MO 64111
816.531.4144

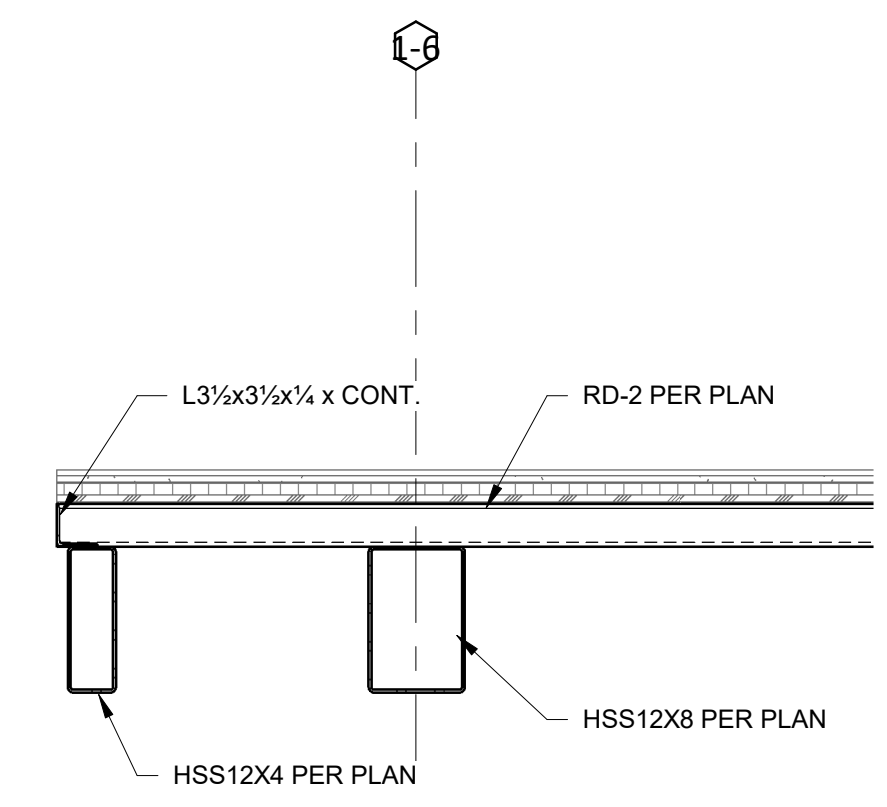
civil engineer:
Kaw Valley Engineering
14700 West 134th Terrace
Lenexa, KS 66215
913.485.0318

mechanical/electrical engineer:
Henderson Engineers
8345 Lenexa Drive | Suite 300
Lenexa, KS 66214
816.742.5000

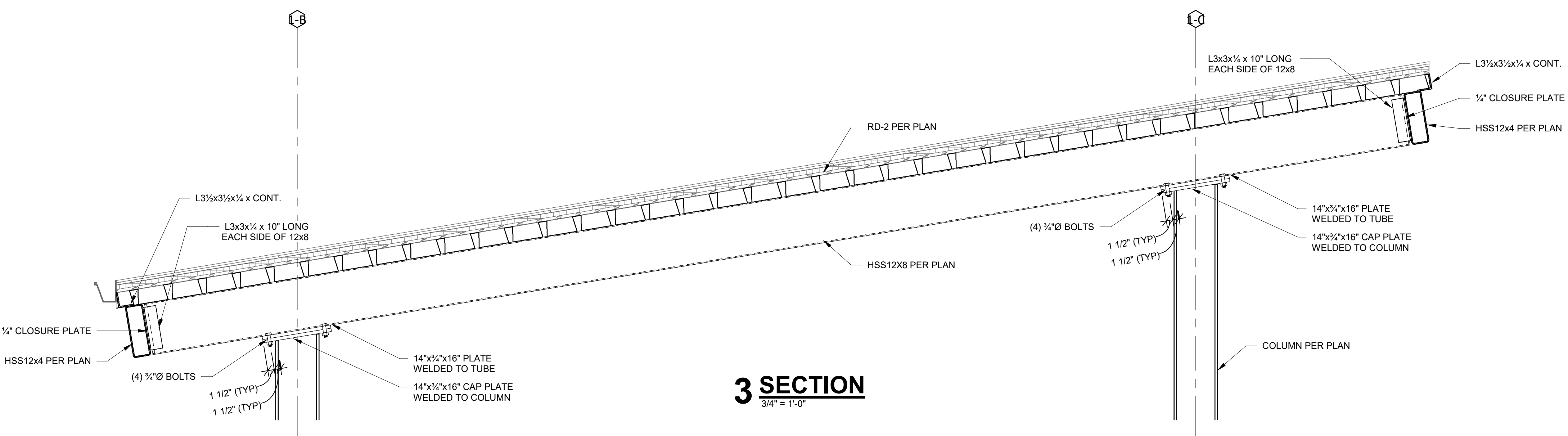
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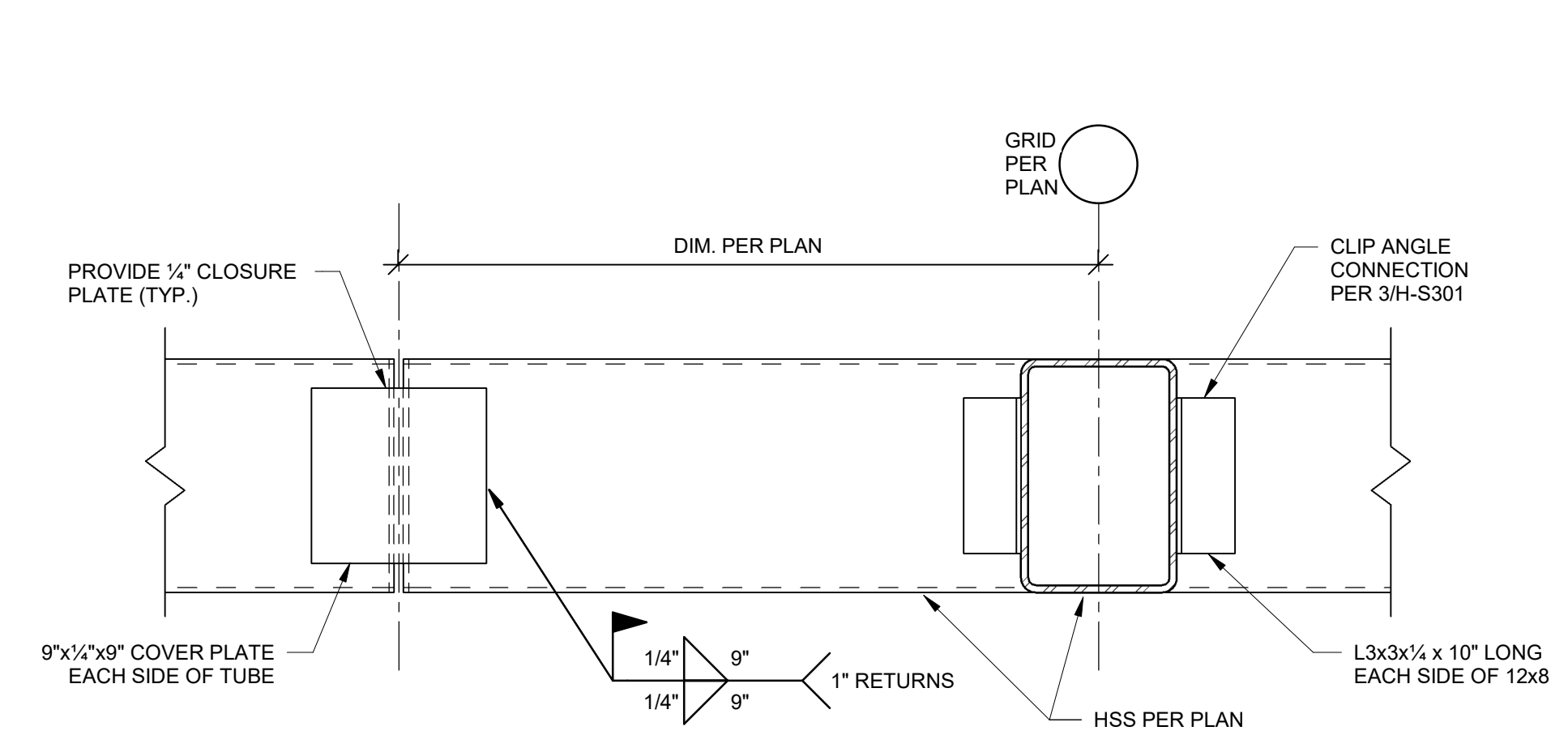
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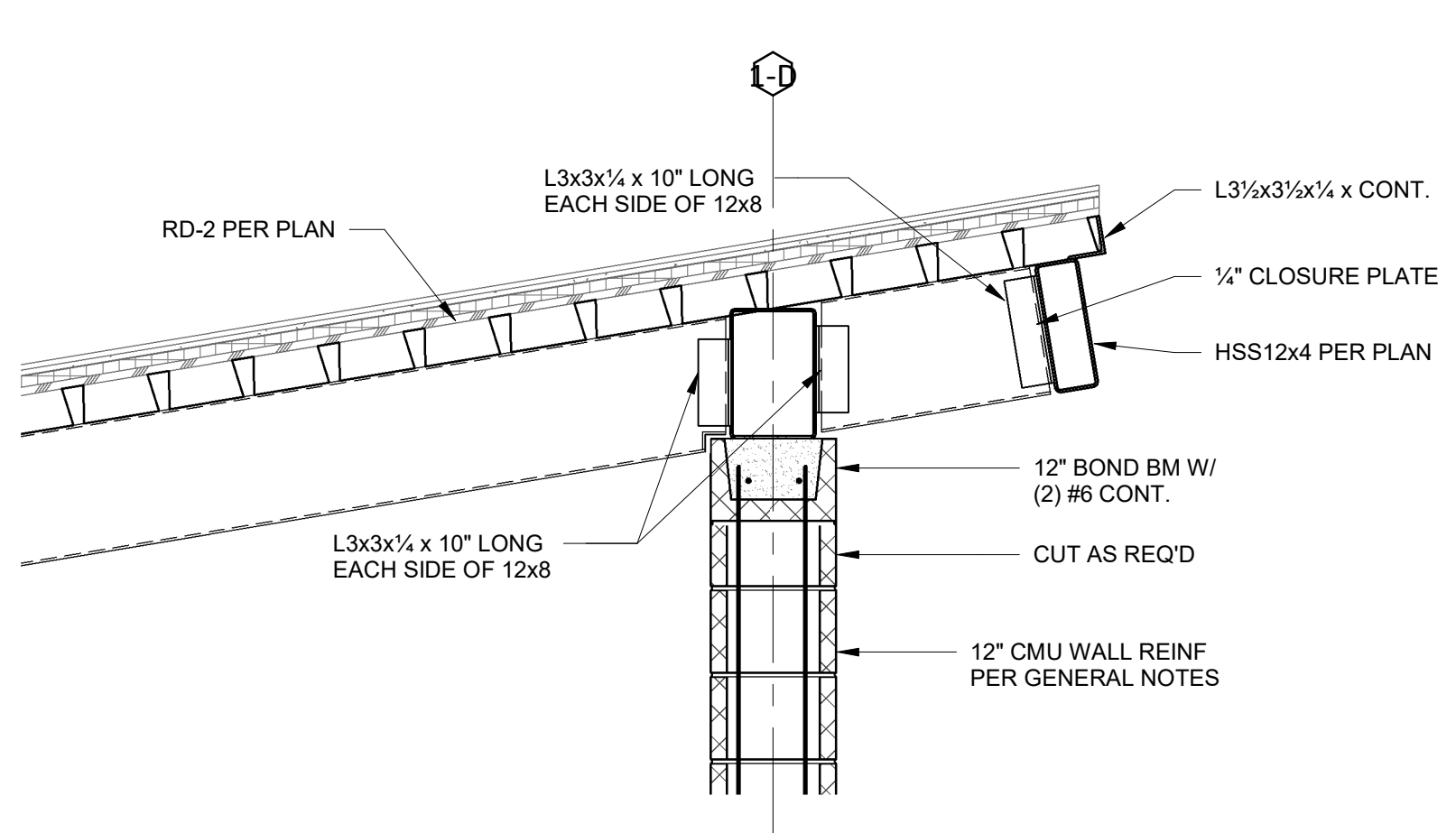
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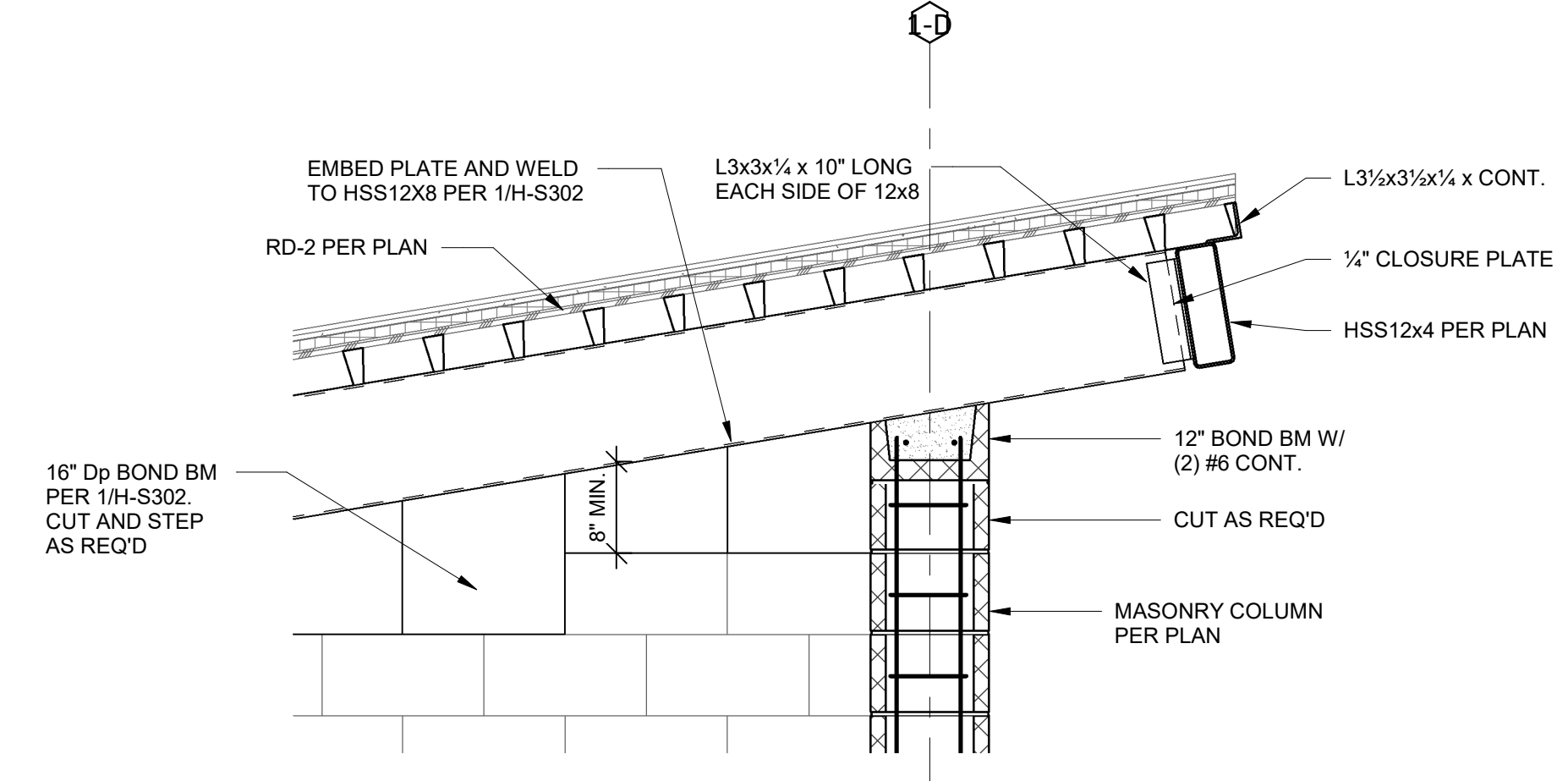
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4 SECTION
1 1/2" = 1'-0"



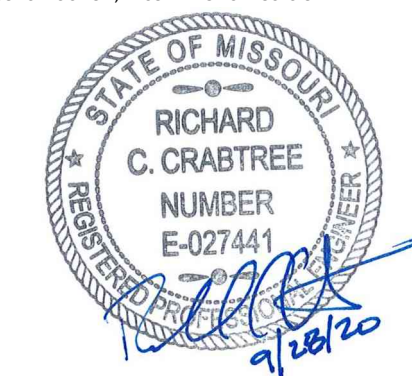
5 SECTION
3/4" = 1'-0"



6 SECTION
3/4" = 1'-0"

18 | 17 | 16 | 15 | 14 | 13 | 12 | 11 | 10 | 9 | 8 | 7 | 6 | 5 | 4 | 3 | 2 | 1

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Jane Doe Date: MM/DD/YYYY
Architect License No. A-0000000

REVISIONS

Number	DESCRIPTION	DATE
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PROJECT NO: 0119-0101
DATE: September 28, 2020

Framing Sections
H-S302
BID SET

**Lee's Summit R7 District
Athletics Facilities**

Lee's Summit High School
400 SE Blue Parkway
Lee's Summit, MO 64063

owner:
Lee's Summit R7 School District
301 NE Tudor Road
Lee's Summit, MO 64086

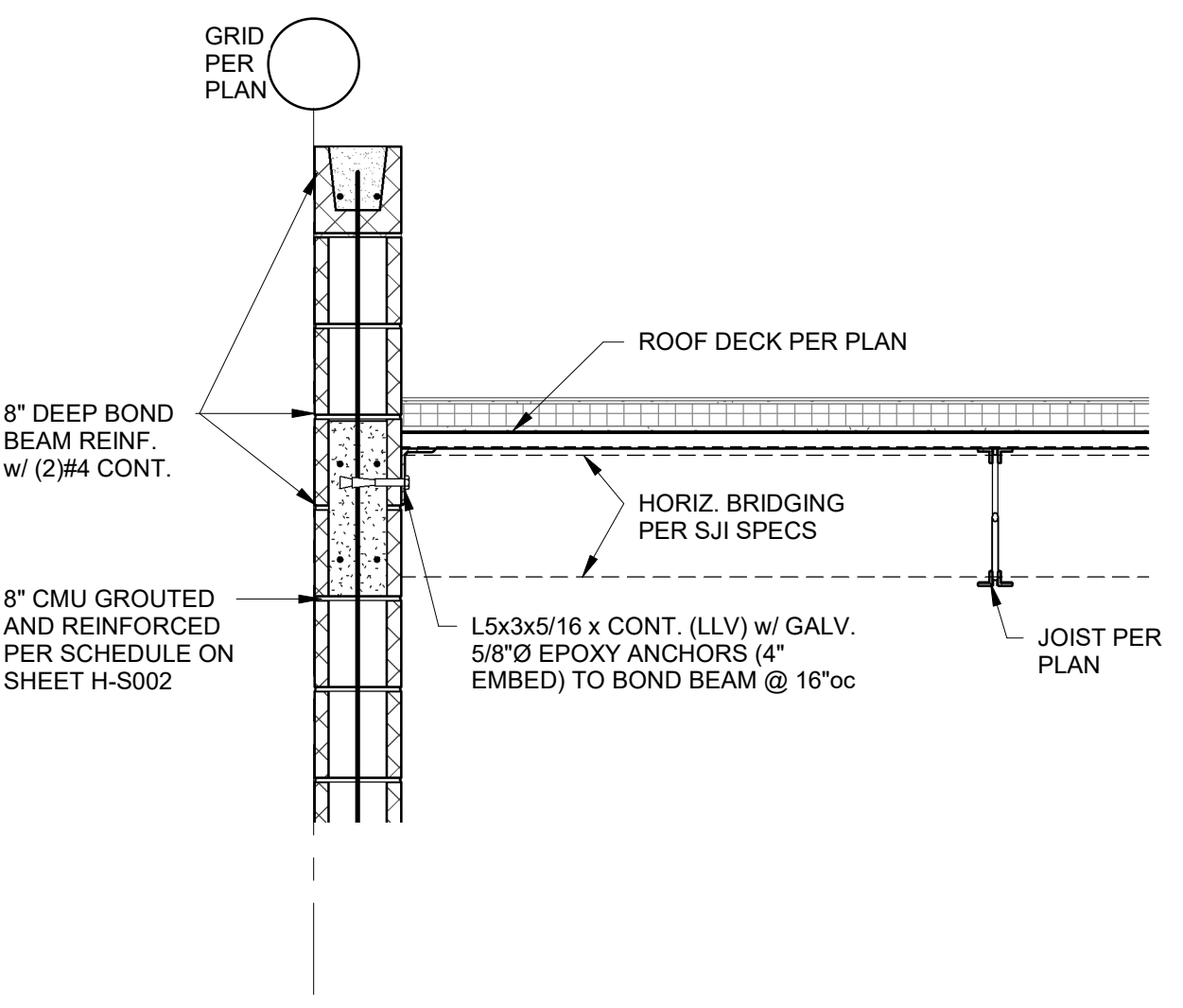
architect:
Gould Evans
4200 Pennsylvania Avenue
Kansas City, MO 64111
816.931.6655 voice
www.gouldevans.com

structural engineer:
Bob D. Campbell & Company, Inc.
4338 Bellevue Avenue
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816.531.4144

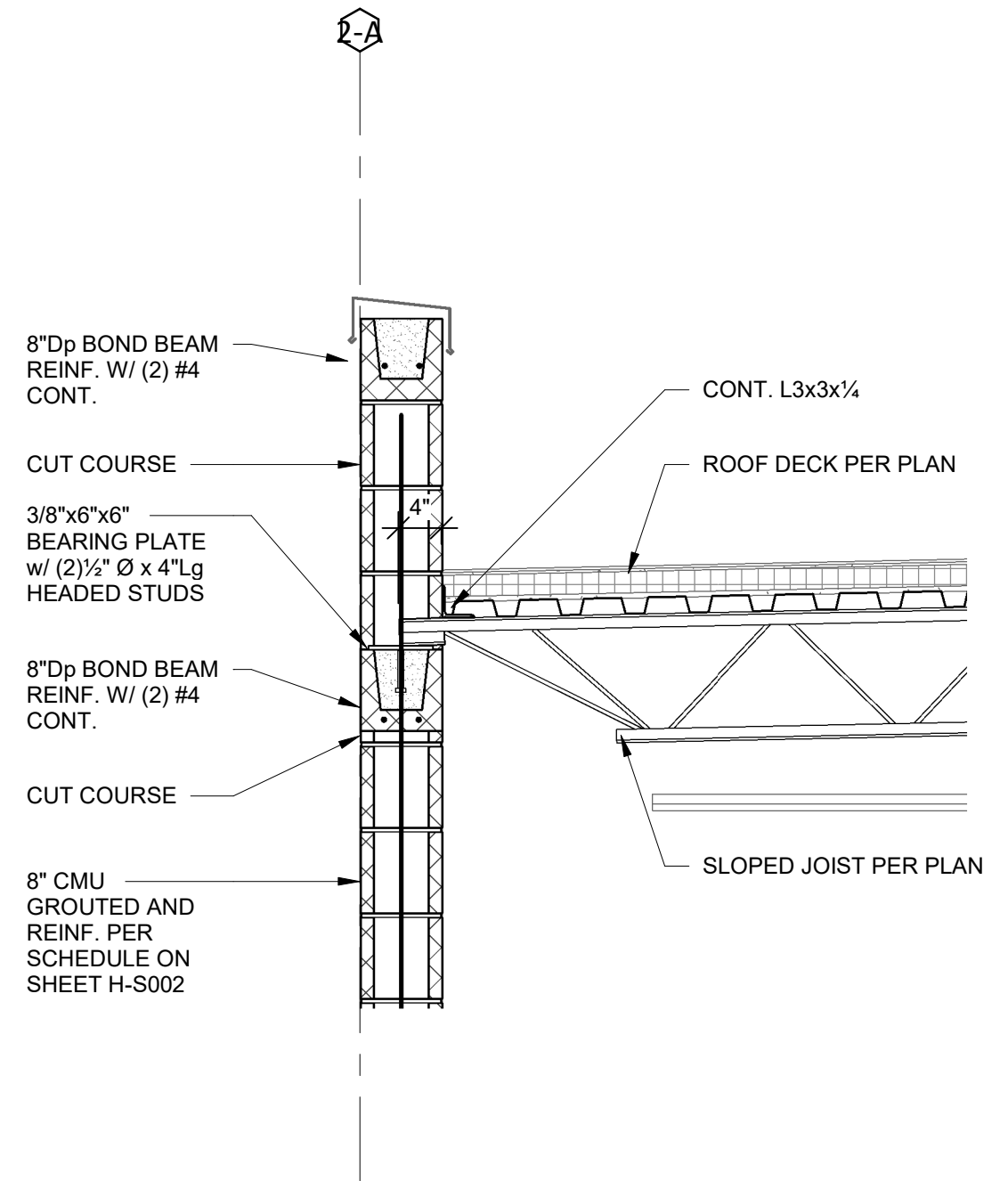
civil engineer:
Kaw Valley Engineering
14700 West 134th Terrace
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mechanical/electrical engineer:
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8345 Lenexa Drive | Suite 300
Lenexa, KS 66214
816.742.5000

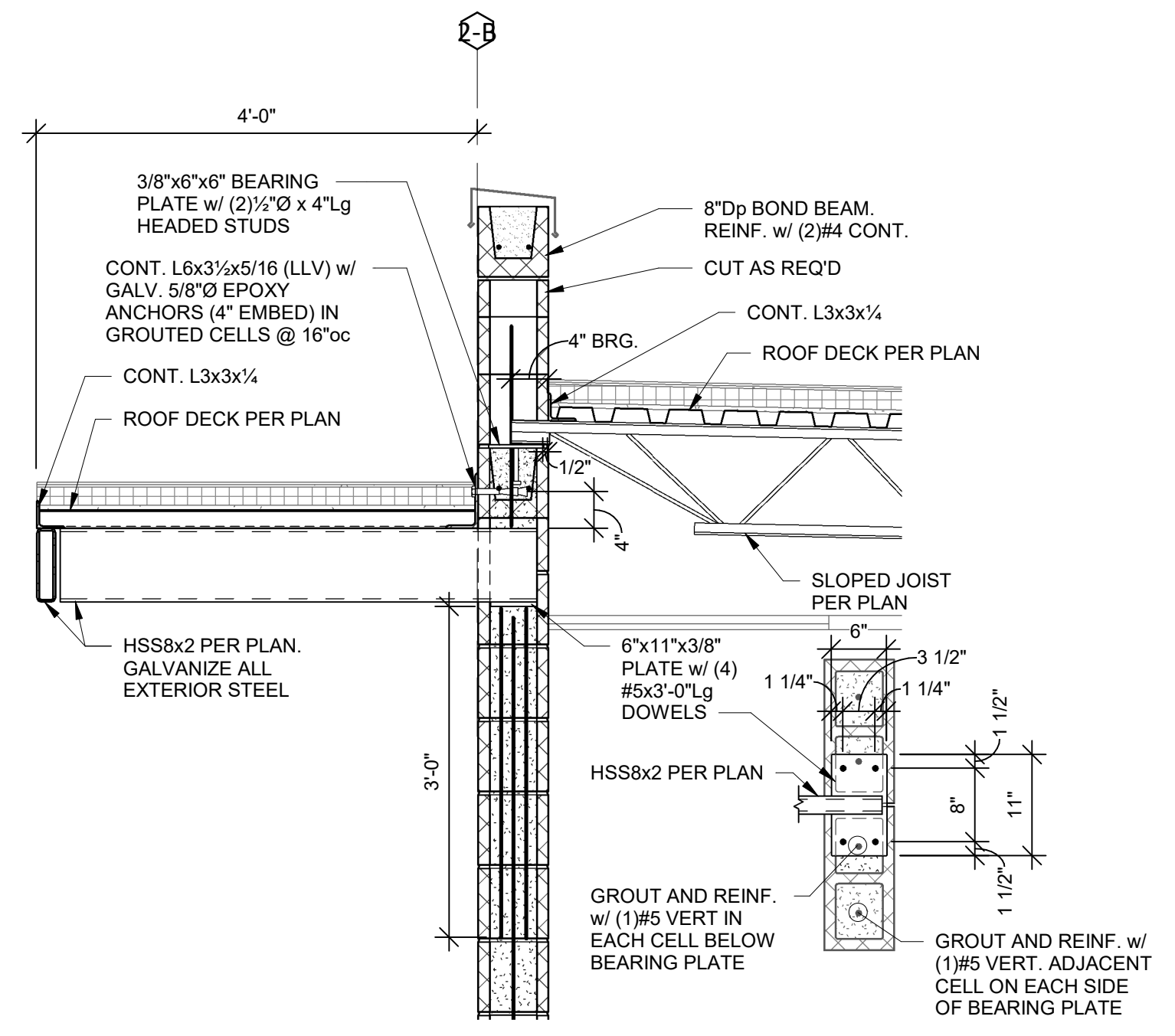
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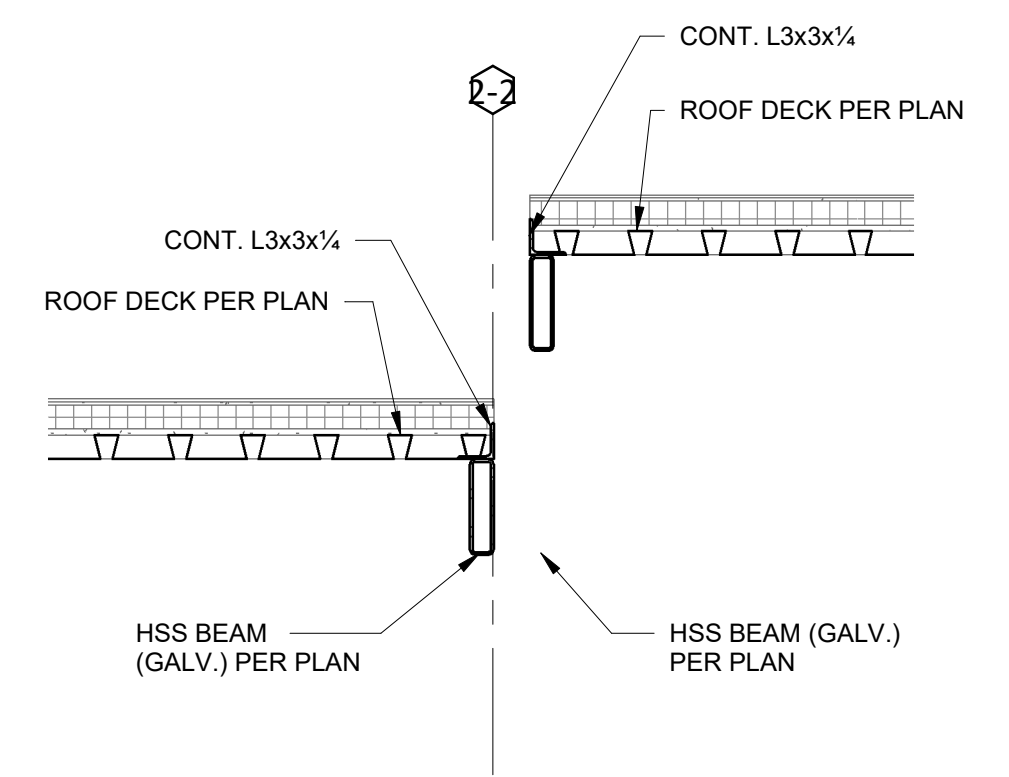
1 SECTION
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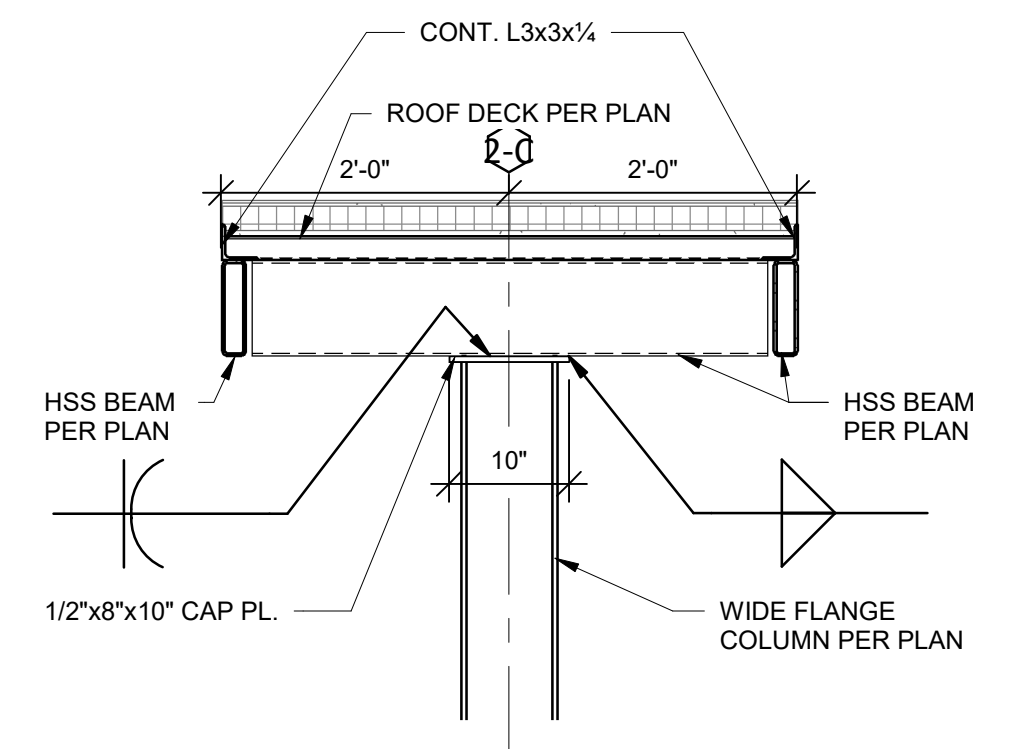
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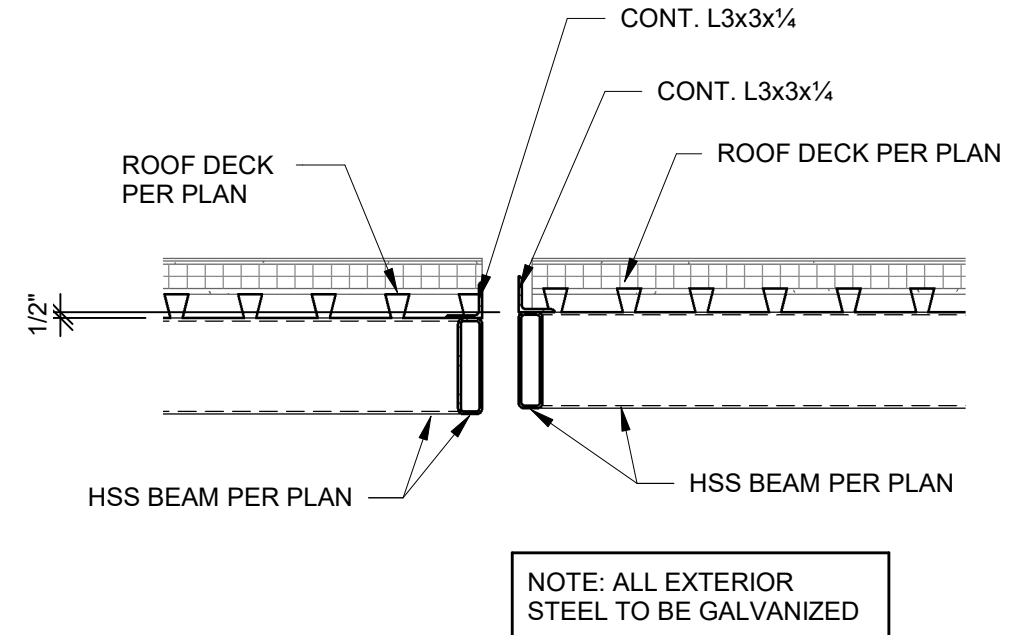
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3/4" = 1'-0"



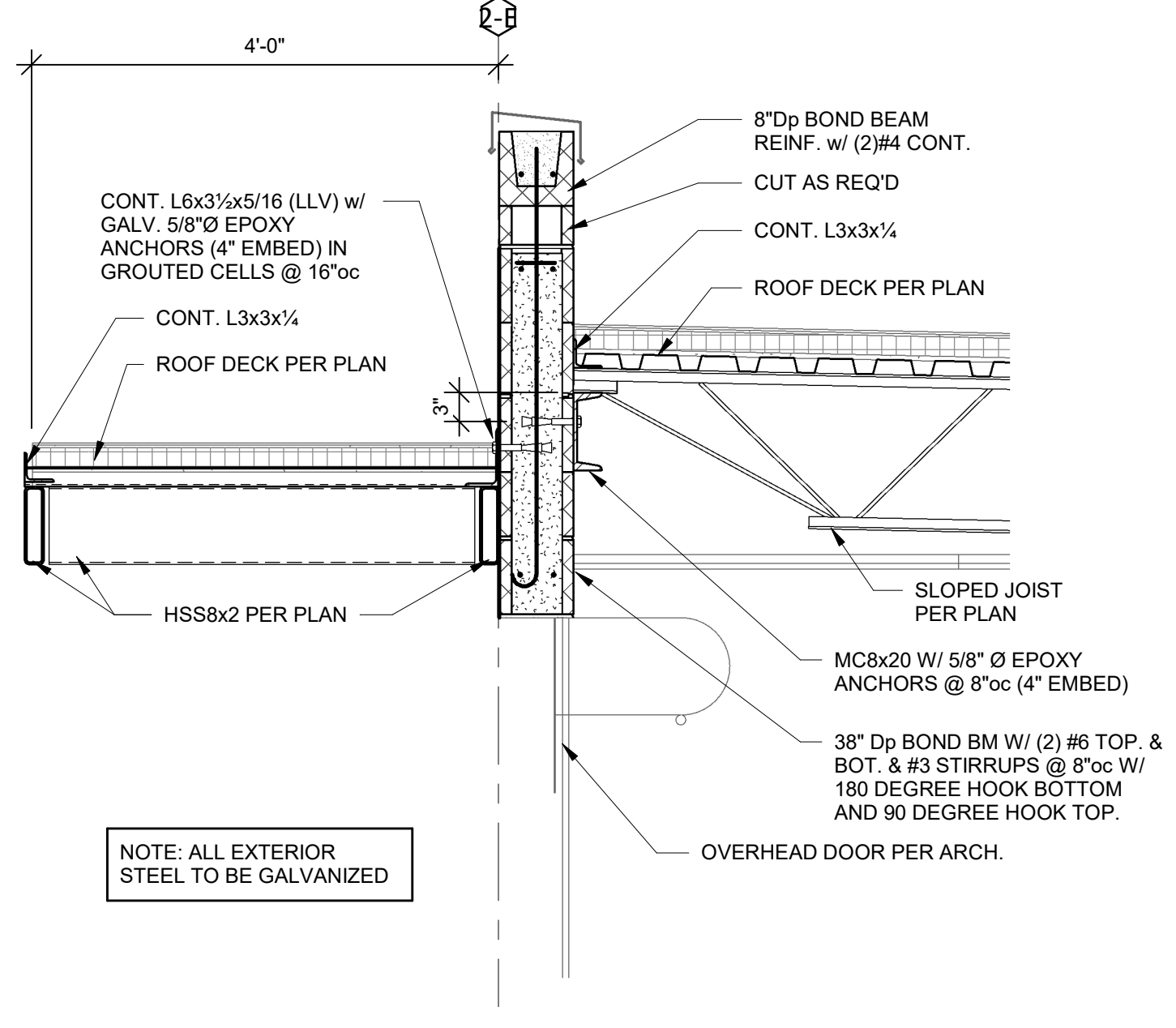
4 SECTION
3/4" = 1'-0"



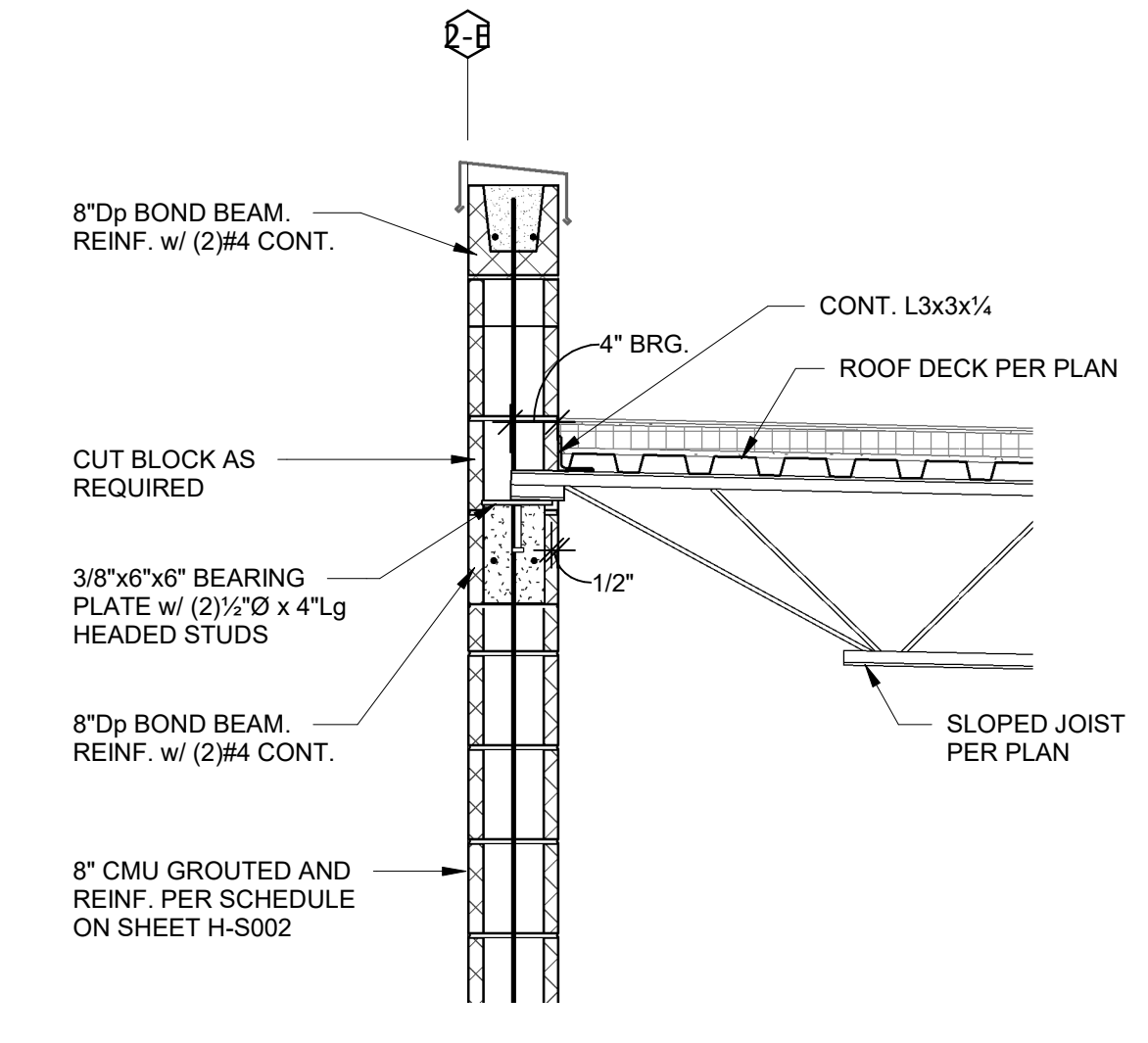
5 SECTION
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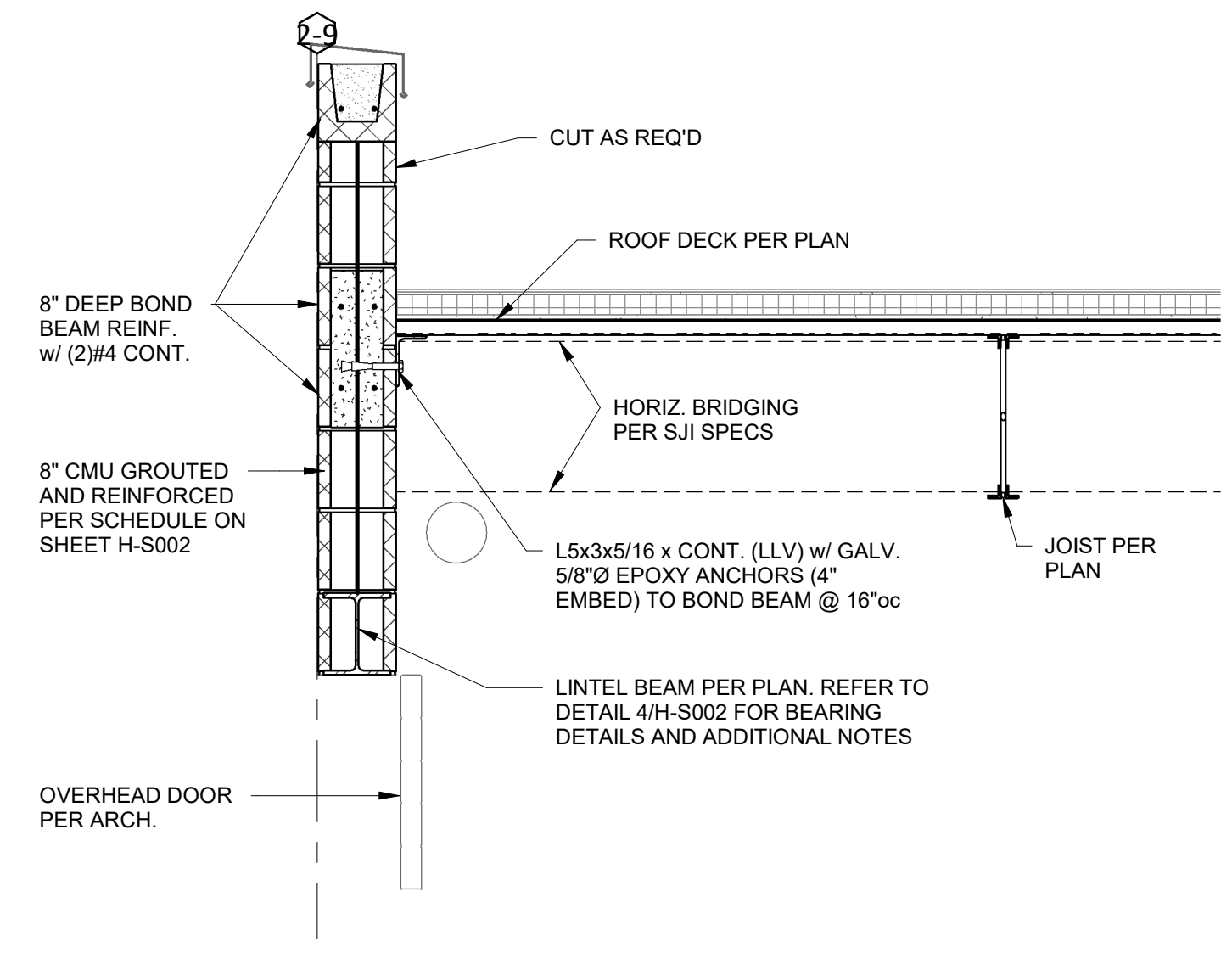
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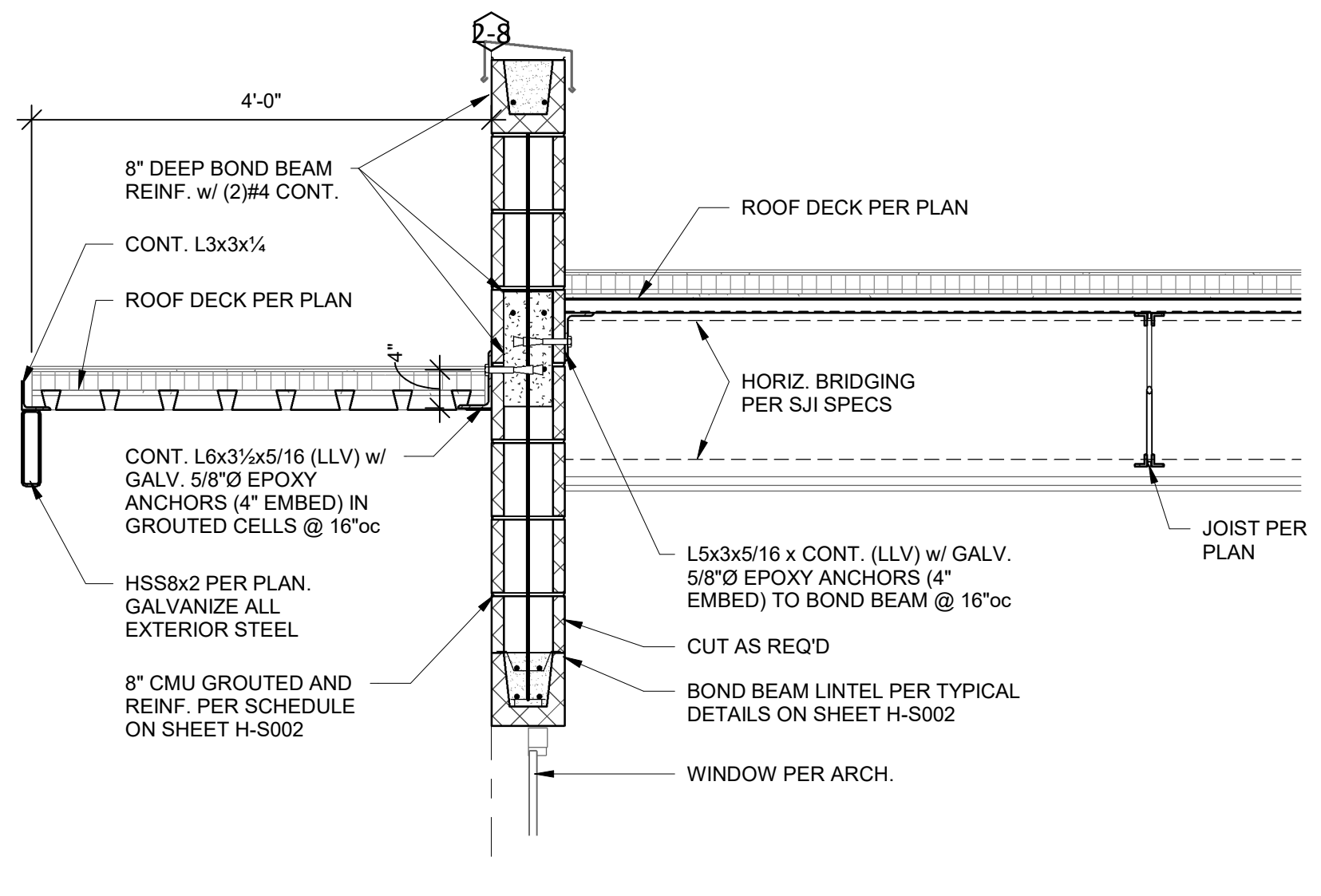
7 SECTION
3/4" = 1'-0"



8 SECTION
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9 SECTION
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10 SECTION
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Missouri License No. 2018022991
Jane Doe Date: MM/DD/YYYY
License No. A-0000000

REVISIONS		
Number	DESCRIPTION	DATE

PROJECT NO: 0119-0101
DATE: September 28, 2020

18 | 17 | 16 | 15 | 14 | 13 | 12 | 11 | 10 | 9 | 8 | 7 | 6 | 5 | 4 | 3 | 2 | 1

**Lee's Summit R7 District
Athletics Facilities**

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owner:
Lee's Summit R7 School District
301 NE Tudor Road
Lee's Summit, MO 64086

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REVISIONS

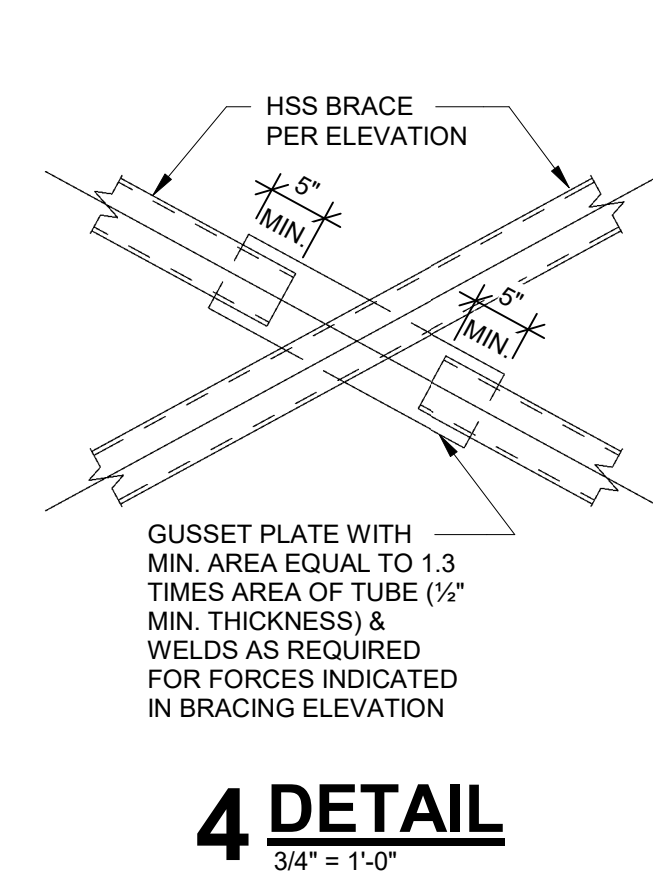
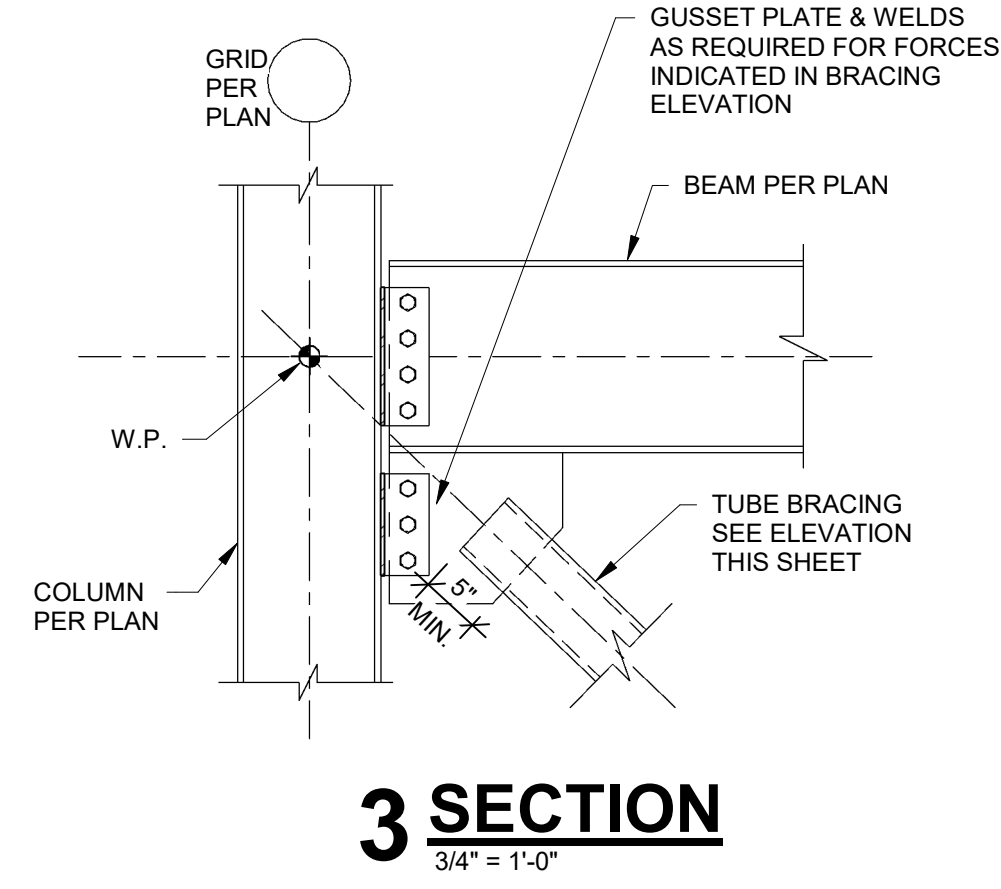
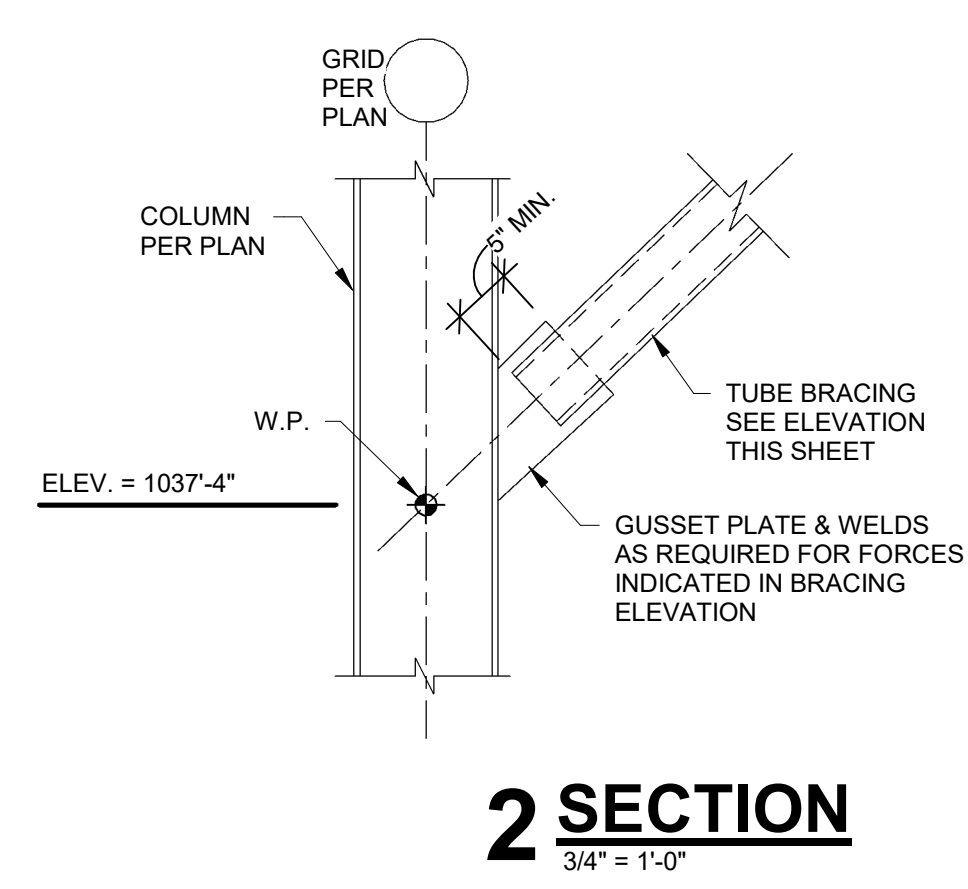
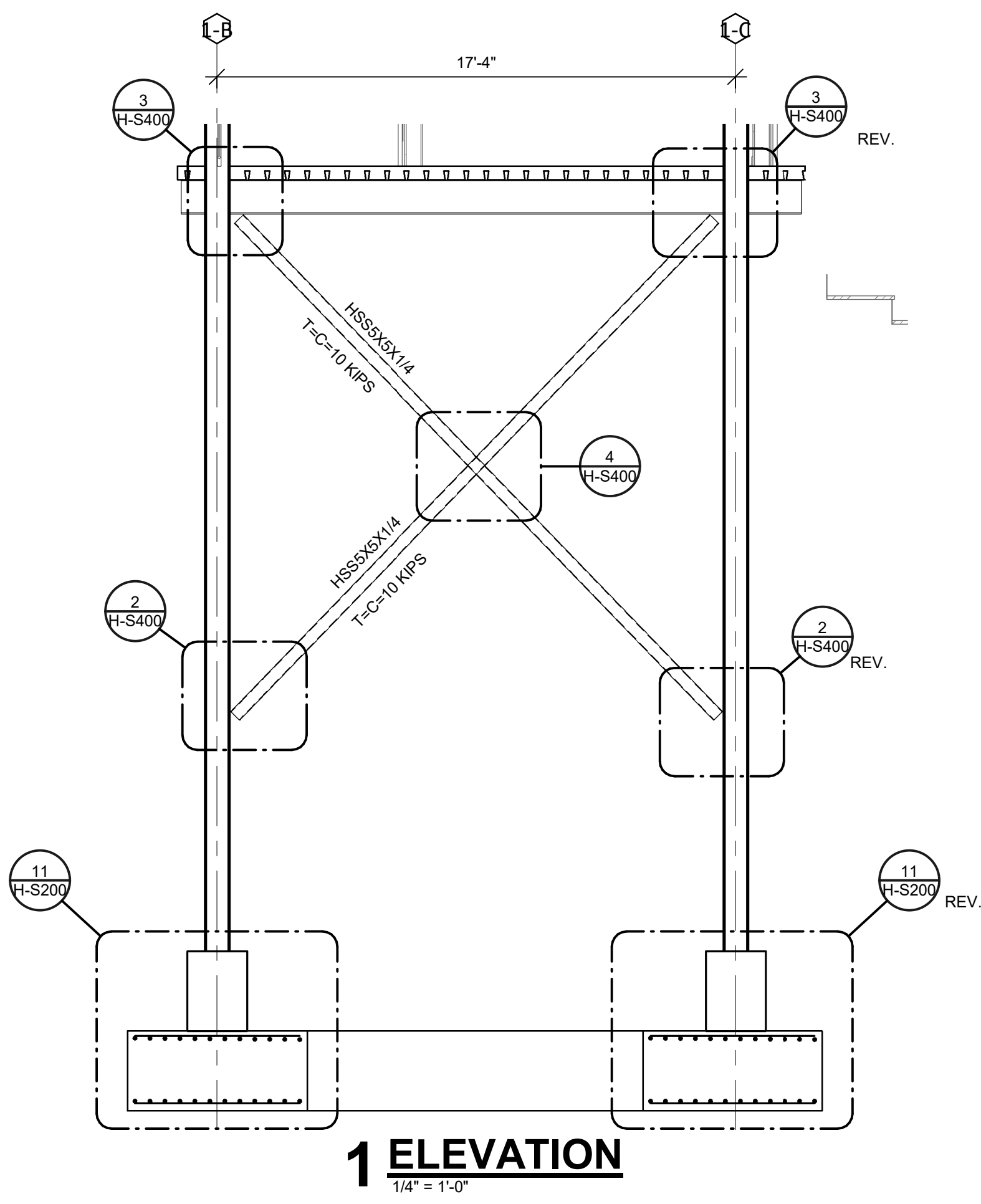
Number	DESCRIPTION	DATE
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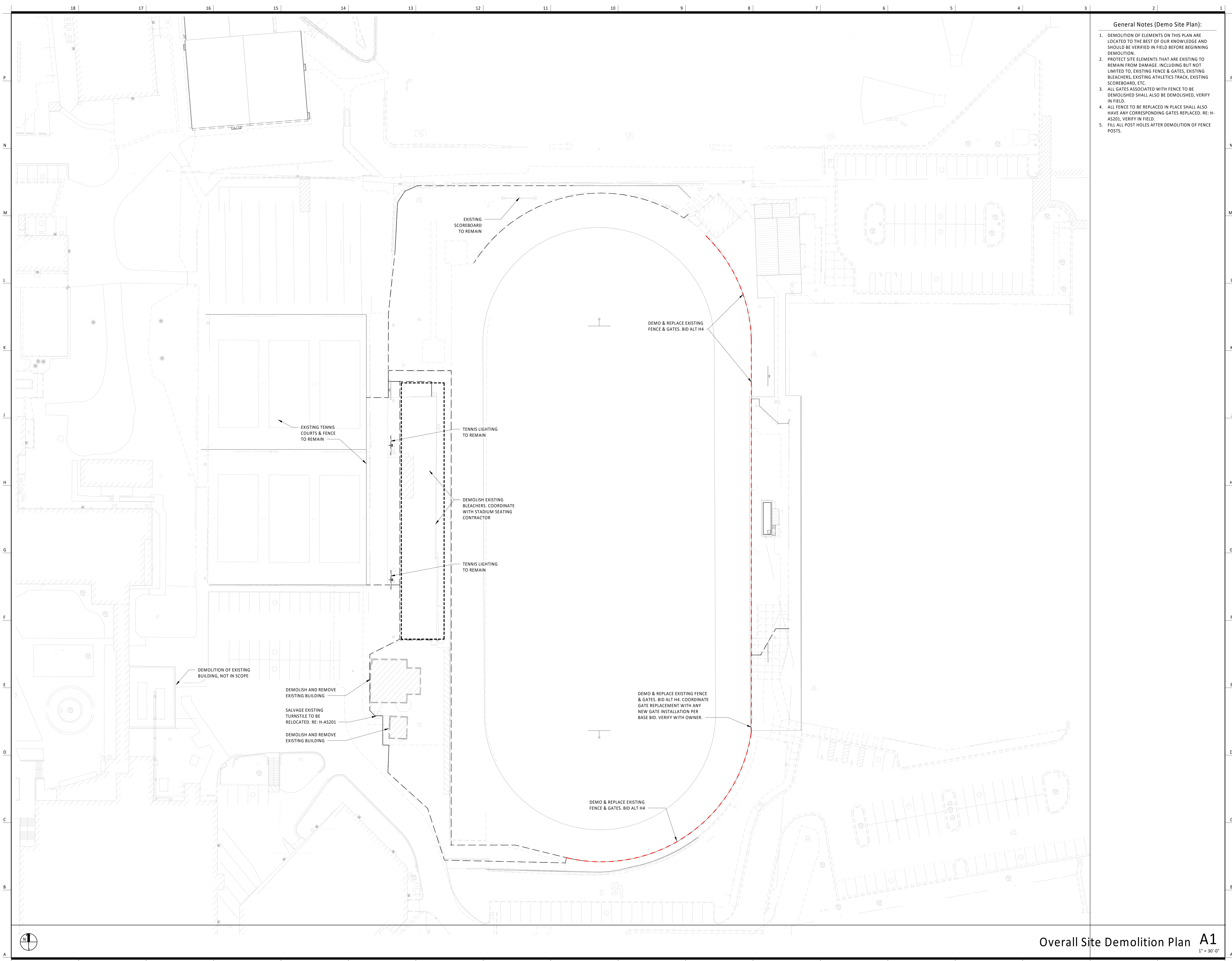
PROJECT NO: 0119-0101
DATE: September 28, 2020

Framing Elevations

H-S400

BID SET





General Notes (Demo Site Plan):

1. DEMOLITION OF ELEMENTS ON THIS PLAN ARE LOCATED TO THE BEST OF OUR KNOWLEDGE AND SHOULD BE VERIFIED IN FIELD BEFORE BEGINNING DEMOLITION.
2. PROTECT SITE ELEMENTS THAT ARE EXISTING TO REMAIN FROM DAMAGE, INCLUDING BUT NOT LIMITED TO, EXISTING FENCE & GATES, EXISTING BLEACHERS, EXISTING ATHLETICS TRACK, EXISTING SCOREBOARD, ETC.
3. ALL GATES ASSOCIATED WITH FENCE TO BE DEMOLISHED SHALL ALSO BE DEMOLISHED, VERIFY IN FIELD.
4. ALL FENCE TO BE REPLACED IN PLACE SHALL ALSO HAVE ANY CORRESPONDING GATES REPLACED, RE: H-AS201, VERIFY IN FIELD.
5. FILL ALL POST HOLES AFTER DEMOLITION OF FENCE POSTS.

**Lee's Summit R7 District
Athletics Facilities**

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400 SW Blue Parkway
Lee's Summit, MO 64063

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Lee's Summit R7 School District
301 NE Tudor Road
Lee's Summit, MO 64086

architect:
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4200 Pennsylvania Avenue
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Architectural Corporation
Missouri License No. 2018022991 Date: 09/28/2020
Jay Browning
Architect License No. A-2009027279

REVISIONS		
Number	DESCRIPTION	DATE

PROJECT NO: 0119-0101
DATE: September 28, 2020

Overall (Site)
Demolition Plans

H-AD100

BID SET

Abbreviations			
A	AT	D	DEEP, DEPTH
@	AIR CONDITIONING (ED)	DEB	DOUBLE
A/C	AIR CONDITIONING UNIT	DEG	DEGREE
AB	ANCHOR BOLT	DEMO	DEMOLITION
ABBVR	ACCESSIBLE	DEPT	DEPARTMENT
ACC	AIR COOLED CONDENSING UNIT	DET	DETAIL
ACCU	AMERICAN CONCRETE INSTITUTE	DF	DRINKING FOUNTAIN
ACI	ACOUSTICAL INSULATION	DH	DOUBLE HUNG
ACOUS	ACOUSTICAL INSULATION	DIA or Ø	DIAMETER
INSUL	ACOUSTICAL INSULATION	DIFF	DIFFERENCE
ACOUS PNL	ACOUSTICAL PANEL	DIR	DIRECTION
ACST	ACOUSTICAL CEILING TILE	DISP	DISPENSER
ADA	AMERICANS WITH DISABILITIES ACT	DIST	DISTANCE
ADDL	ADDITIONAL	DIV	DIVIDE, DIVISION
ADDM	ADDITIONAL	DL	DEAD LOAD
ADH	ADHESIVE	DMPF	DAMP/PROOFING
ADJ	ADJUSTABLE, ADJACENT	DMPR	DAMPER
AE	ARCHITECT/ENGINEER	DN	DOWN
AFF	ABOVE FINISHED FLOOR	DO	DITTO
AGGR	AGGREGATE	DOC	DOCUMENT
AHJ	AUTHORITY HAVING JURISDICTION	DOZ	DOZEN
AHU	AIR HANDLING UNIT	DR	DOOR
AISC	AMERICAN INSTITUTE OF STEEL CONSTRUCTION	DS	DOWNSPOUT
ALT	ALTERNATE	DSGN	DESIGN
ALUM	ALUMINUM	DW	DRAIN TILE
ANOD	ANNODIZED	DWG	DRAWING
APC	ACOUSTICAL PANEL CEILING	E	EAST
ARCH	ARCHITECTURAL	E A	EACH
ASL	ABOVE STRUCTURAL LEVEL	EC	ELECTRICAL CONTRACTOR
AWT	ACOUSTICAL WALL TREATMENT	EF	EACH FACE
		EIFS	EXTERIOR INSULATION AND FINISH SYSTEM
B	BASE BOARD	EJ	EXPANSION JOINT
B/B	BACK-TO-BACK	EL	ELEVATION
BAT	BATTEN	ELEC	ELECTRICAL
BD	BOARD	ELEM	ELEMENTARY
BDRM	BEDROOM	ELEV	ELEVATION
BITUM	BITUMINOUS	ENAM	ENAMEL
BLDG	BUILDING	ENCL	ENCLOSURE
BLKG	BLOCKING	ENGR	ENGINEER
BM	BENCHMARK, BEAM	ENVR	ENVIRONMENT
BTM	BOTTOM	EOS	EDGE OF SLAB
BRG	BEARING	EP	ELECTRIC PANEL
BRZ	BRONZE	EPDM	ETHYLENE PROPYLENE DIENE MONOMER
BSMT	BASEMENT	EPS	EXPANDED POLYSTYRENE BOARD
BTWN	BETWEEN	EQ	EQUAL
BUR	BUILT-UP ROOFING	EQUIP	EQUIPMENT
BW	BOTH WAYS	EQUIV	EQUIVALENT
		ETC	ET CETERA
C	CABINET	ETR	EXISTING TO REMAIN
CB	CARRIAGE BOLT, CATCH BASIN	EW	EACH WAY
CCTV	CLOSED-CIRCUIT TELEVISION	EW	ELECTRIC WATER COOLER
CD	CONSTRUCTION DOCUMENTS, CONTRACT DOCUMENTS	EWH	ELECTRIC WATER HEATER
CEM	CEMENT	EXC	EXCAVATE
CERT	CERTIFY, CERTIFICATE, CERTIFICATION	EXH	EXHAUST
CF/CI	CONTRACTOR FURNISHED/ CONTRACTOR INSTALLED	EXIST	EXISTING
		EXP	EXPAND, EXPANSION
CF/OI	CONTRACTOR FURNISHED/ OWNER INSTALLED	EXT	EXTERIOR
CG	CORNER GUARD	F	FACE-TO-FACE
CH	COAT HOOK	FA	FIRE ALARM
CHBD	CHALK BOARD	FAAP	FIRE ALARM ANNUNCIATOR PANEL
CHEM	CHEMICAL	FACP	FIRE ALARM CONTROL PANEL
CI	CAST IRON	FCU	FAN COIL UNIT
CIP	CAST-IN-PLACE	FD	FLOOR DRAIN
CJ	CONTROL JOINT, CONSTRUCTION JOINT	MDD	MEDIUM DENSITY OVERLAY
		FE	FIRE EXTINGUISHER
CL	CENTER LINE	FEC	FIRE EXTINGUISHER CABINET
CLG	CEILING	FIN	FINISH
CLO	CLOSET	FIXT	FIXTURE
CLR	CLEAR	FLOUR	FLOURESCENT
CLRM	CLASSROOM	FLR	FLOOR
CMU	CONCRETE MASONRY UNIT	FNDN	FOUNDATION
CNR	CORNER	FO	FINISHED OPENING
CNTR	COUNTER	FRIS	FIRE RESISTIVE JOINT SYSTEM
COL	COLUMN	FRP	FIBERGLASS REINFORCED PLASTIC
CONC	CONCRETE	FRTW	FIRE RETARDANT TREATED WOOD
CONF	CONFERENCE	FT	FOOT, FEET
CONN	CONNECTION	FTG	FOOTING
CONSTR	CONSTRUCTION	FURN	FURNITURE
CONT	CONTINUOUS	FW	FIRE WALL
CONTR	CONTRACTOR	FWC	FABRIC WALL COVERING
COORD	COORDINATE, COORDINATION	G	GAGE
CORR	CORRIDOR	GAL	GALLON
CPT	CARPET	GALV	GALVANIZED
CSK	COUNTERSINK	GALV STL	GALVANIZED STEEL
CSWK	CASEWORK	GB	GRAB BAR
CT	CERAMIC TILE	GC	GENERAL CONTRACTOR
CTR	CENTER	GEN	GENERAL GENERATOR
CTRL	CONTROL	GFCI	GROUND FAULT CIRCUIT INTERRUPTER
CU	CUBIC	GFRG	GLASS FIBER REINFORCED CONCRETE
CUH	CABINET UNIT HEATER	GFRG	GLASS FIBER REINFORCED GYPSUM
CUST	CUSTODIAL	GL	GLASS, GROUND LEVEL
CW	COLD WATER, CASEMENT WINDOW	GL BLK	GLASS BLOCK
		GLU LAM	GLUED LAMINATED BEAM
		GLZ	GLAZING
		GWT	GLAZED WALL TILE
		GYM	GYMNASIUM
		GYP	GYPSUM
		GYP BD	GYPSUM BOARD
		GYP PLAS	GYPSUM PLASTER
H	HOSE BIBB	H	HANDICAP, HOLLOW CORE
HB	HANDICAP, HOLLOW CORE	HCP	HANDICAPPED
HC	HANDICAP, HOLLOW CORE	HD	HEAVY DUTY
HCP	HANDICAPPED	HDW	HARDWARE
HD	HEAVY DUTY	HDR	HARDWOOD
HDW	HARDWARE	HM	HOLLOW METAL
HDR	HARDWOOD	HO	HOLD OPEN
HM	HOLLOW METAL	HORIZ	HORIZON
HO	HOLD OPEN	HR	HOUR
HORIZ	HORIZON	HSS	HOLLOW STRUCTURAL SECTION
HR	HOUR	HT	HEIGHT
HSS	HOLLOW STRUCTURAL SECTION	HVAC	HEATING, VENTILATING AND AIR CONDITIONING
HT	HEIGHT	HW	HOT WATER
HVAC	HEATING, VENTILATING AND AIR CONDITIONING	HYD	HYDRANT
HW	HOT WATER	I	INSIDE DIAMETER
HYD	HYDRANT	ID	INSIDE DIAMETER
I	INSIDE DIAMETER	IN	INCHES
ID	INSIDE DIAMETER	INCAND	INCANDESCENT
IN	INCHES	INCL	INCLUDE
INCAND	INCANDESCENT	INFO	INFORMATION
INCL	INCLUDE	INSUL	INSULATION
INFO	INFORMATION	INT	INTERIOR
INSUL	INSULATION	INTERM	INTERMEDIATE
INT	INTERIOR	J	JAN
INTERM	INTERMEDIATE	JAN	JANITOR
J	JAN	JAN CLO	JANITOR CLOSET
JAN	JANITOR	JNT	JOINT
JAN CLO	JANITOR CLOSET	JR	JUNIOR
JNT	JOINT	JST	JOIST
JR	JUNIOR	K	KNOCK DOWN
JST	JOIST	KD	KNOCK DOWN
K	KNOCK DOWN	KIP	1000 POUNDS
KD	KNOCK DOWN	KIT	KITCHEN
KIP	1000 POUNDS	KO	KNOCK OUT
KIT	KITCHEN	KPL	KICK PLATE
KO	KNOCK OUT	L	LITER, ANGLE
KPL	KICK PLATE	LAB	LABORATORY
L	LITER, ANGLE	LAM	LAMINATE(D)
LAB	LABORATORY	LAV	LAVATORY
LAM	LAMINATE(D)	LBL	LABEL
LAV	LAVATORY	LBS	POUND
LBL	LABEL	LD	LOAD
LBS	POUND	LF	LINEAR FEET
LD	LOAD	LH	LATENT HEAT, LEFT HAND
LF	LINEAR FEET	LIB	LIBRARY
LH	LATENT HEAT, LEFT HAND	LN	LINEAR
LIB	LIBRARY	LKR	LOCKER
LN	LINEAR	LKR RM	LOCKER ROOM
LKR	LOCKER	LL	LIVE LOAD
LKR RM	LOCKER ROOM	LLH	LONG LEG HORIZONTAL
LL	LIVE LOAD	LEV	REVISION
LLH	LONG LEG HORIZONTAL	LLV	LONG LEG VERTICAL
LEV	REVISION	LT	LINOLEUM TILE, LIGHT
LLV	LONG LEG VERTICAL	LTG	LIGHTING
LT	LINOLEUM TILE, LIGHT	M	MATCHLINE
LTG	LIGHTING	MACH	MACHINE ROOM
M	MATCHLINE	MACH RM	MACHINE ROOM
MACH	MACHINE ROOM	MAHOG	MAHOAGNY
MACH RM	MACHINE ROOM	MAINT	MAINTENANCE
MAHOG	MAHOAGNY	MAR	MATERIAL
MAINT	MAINTENANCE	MAX	MAXIMUM
MAR	MATERIAL	MB or MKR	MARKERBOARD
MAX	MAXIMUM	MC	MECHANICAL CONTRACTOR
MB or MKR	MARKERBOARD	MD	MEDIUM DENSITY FIBERBOARD
MC	MECHANICAL CONTRACTOR	MDD	MEDIUM DENSITY OVERLAY
MD	MEDIUM DENSITY FIBERBOARD	ME	MATCH EXISTING
MDD	MEDIUM DENSITY OVERLAY	MECH	MECHANICAL
ME	MATCH EXISTING	MECH RM	MECHANICAL ROOM
MECH	MECHANICAL	MFR	MANUFACTURER
MECH RM	MECHANICAL ROOM	MIN	MINIMUM
MFR	MANUFACTURER	MISC	MISCELLANEOUS
MIN	MINIMUM	MM	MILIMETER
MISC	MISCELLANEOUS	MO	MASONRY OPENING
MM	MILIMETER	MOD BIT	MODIFIED BITUMEN
MO	MASONRY OPENING	MTD	MOUNTED
MOD BIT	MODIFIED BITUMEN	MTL	METAL, MATERIAL
MTD	MOUNTED	MULL	MULLION
MTL	METAL, MATERIAL	N	NORTH
MULL	MULLION	NA	NOT APPLICABLE
N	NORTH	NIC	NOT IN CONTRACT
NA	NOT APPLICABLE	NO or #	NUMBER
NIC	NOT IN CONTRACT	NOM	NOMINAL
NO or #	NUMBER	NORM	NORMAL
NOM	NOMINAL	NTS	NOT TO SCALE
NORM	NORMAL	O	OVERALL
NTS	NOT TO SCALE	O/A	OUT TO OUT
O	OVERALL	OC	ON CENTER
O/A	OUT TO OUT	OD	OUTSIDE DIAMETER
OC	ON CENTER	OF/OI	OWNER FURNISHED/ OWNER INSTALLED
OD	OUTSIDE DIAMETER	OF/CI	OWNER FURNISHED/ CONTRACTOR INSTALLED
OF/OI	OWNER FURNISHED/ OWNER INSTALLED	OFF	OFFICE
OF/CI	OWNER FURNISHED/ CONTRACTOR INSTALLED	OH	OVERHANG
OFF	OFFICE	OH DR	OVERHEAD DOOR
OH	OVERHANG	OPH	OPPOSITE HAND
OH DR	OVERHEAD DOOR	OPNG	OPENING
OPH	OPPOSITE HAND	OPP	OPPOSITE
OPNG	OPENING	OPT	OPTIONAL, OPTIMUM
OPP	OPPOSITE		
OPT	OPTIONAL, OPTIMUM		

Graphic Symbols	

Materials Graphics	

- General Architectural Drawing Notes:**
- VERIFY DIMENSIONS AND EXISTING CONDITIONS BEFORE COMMENCING WORK. REPORT DISCREPANCIES TO THE ARCHITECT PRIOR TO PROCEEDING WITH AFFECTED WORK.
 - BUILDING FLOOR PLAN DIMENSIONS ARE REFERENCED FROM STRUCTURAL GRID, FACE OF CONCRETE, FACE OF MASONRY, OR FACE OF FINISHED SURFACE, UNLESS NOTED OTHERWISE.
 - REFLECTED CEILING PLAN DIMENSIONS ARE REFERENCED FROM FINISHED SURFACES UNLESS NOTED OTHERWISE. CEILING HEIGHTS ARE DIMENSIONED FROM FLOOR TO FINISHED CEILING HEIGHT.
 - CASEWORK, PLUMBING FIXTURES, TOILET PARTITIONS, AND OTHER FIXTURES AND EQUIPMENT ARE DIMENSIONED FROM FINISHED SURFACES UNLESS NOTED OTHERWISE.
 - DIMENSIONS NOTED AS "FIELD VERIFY" SHALL BE CHECKED AT THE SITE BY THE CONTRACTOR AND REVIEWED WITH THE ARCHITECT BEFORE INCORPORATING INTO THE WORK.
 - DIMENSIONS NOTED AS "CLEAR" REQUIRE SPECIFIC COORDINATION BETWEEN DISCIPLINES AND/OR MANUFACTURERS.
 - DRAWINGS NOTED AT "N.T.S." ARE NOT TO SCALE.
 - DO NOT SCALE DRAWING. WRITTEN DIMENSIONS TAKE PRECEDENCE. IF CLARIFICATION IS REQUIRED IN ORDER TO DETERMINE THE INTENT OF THE CONTRACT DOCUMENTS, CONTACT THE ARCHITECT.
 - NOTES OR DIMENSIONS LABELED "TYPICAL" SHALL APPLY TO SITUATIONS THAT ARE THE SAME OR SIMILAR.

- General Materials & Equipment Notes:**
- PROVIDE GALVANIC PROTECTION BETWEEN DISSIMILAR METALS.
 - INSTALL PIPING AND CONDUIT TIGHT TO WALLS, COLUMNS AND ROOF DECK.
 - SEAL ALL PIPE OR CONDUIT PENETRATIONS WITH APPROPRIATE SEALANT. PROVIDE FIRE SEALANT AT RATED PARTITIONS.
 - PLYWOOD AND WOOD BLOCKING SHALL BE FIRE RESISTANT.
 - DO NOT CUT OR DRILL ANY STRUCTURAL MEMBER, OTHER THAN DESCRIBED ON THE STRUCTURAL DRAWINGS, WITHOUT WRITTEN APPROVAL FROM THE STRUCTURAL ENGINEER.

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**Lee's Summit R7 District
Athletics Facilities**

Lee's Summit High School
400 SW Blue Parkway
Lee's Summit, MO 64063

owner:
Lee's Summit R7 School District
301 NE Tudor Road
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4338 Bellevue Avenue
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Kaw Valley Engineering
14700 West 124th Terrace
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913.485.0318

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JAY BROWNING
ARCHITECT
0009027279
9.28.20

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Missouri License No. 2018022591
Jay Browning Date: 09/28/2020
Architect License No. A-2009027279

REVISIONS		
Number	DESCRIPTION	DATE

PROJECT NO: 0119-0101
DATE: September 28, 2020

Graphic Symbols,
Abbreviations, and
General Information

H-A001

BID SET

Specialty Equipment Schedule					
ID#	Description	Manufacturer	Model Number	Comments	Latest Revision
Bath & Toilet Accessories					
BC01					
GB-18	STRAIGHT GRAB BAR	BOBRICK	B-6806		
GB-36	STRAIGHT GRAB BAR	BOBRICK	B-6806		
GB-42	STRAIGHT GRAB BAR	BOBRICK	B-6806		
Bath & Toilet Accessories - Commercial					
ND1	Surface Mounted Sanitary Napkin Disposal	Bobrick Washroom Equipment, Inc.	B-254		
TSCD	Surface-Mounted Seat-Cover Dispenser	Bobrick Washroom Equipment, Inc.	B-221		
Fire Extinguisher Cabinets					
FE-1					

- Specialty Equipment Notes:**
- THIS PROJECT WILL COMPLY WITH ALL AMERICAN WITH DISABILITIES REGULATIONS AND ALL LOCAL ACCESSIBILITY CODE REQUIREMENTS.
 - ALL MOUNTING HEIGHTS ARE TO COMPLY WITH ICC/ANSI-A117.1 REFER TO FIXTURE HEIGHT GUIDELINES FOR TYPICAL MOUNTING HEIGHTS. COORDINATE WITH OWNER/ARCHITECT FOR ANY ITEMS IN CONFLICT OR NOT EXPLICITLY INDICATED.
 - PROVIDE WOOD BLOCKING AT ALL EQUIPMENT FIXTURES, AND ACCESSORIES INCLUDED OWNER PROVIDED ITEMS WHETHER OR NOT SUCH BLOCKING IS NOTED OR SPECIFIED.
 - ACCESSORIES SHOWN ARE GENERIC. REFER TO SCHEDULE SPECIFIED MODEL.
 - FIXTURES ACCESSORIES SHOWN ARE GENERIC. REFER TO PLUMBING DRAWINGS FOR SCHEDULED FIXTURES.

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Lee's Summit R7 District Athletics Facilities

Lee's Summit High School
 400 SW Blue Parkway
 Lee's Summit, MO 64063

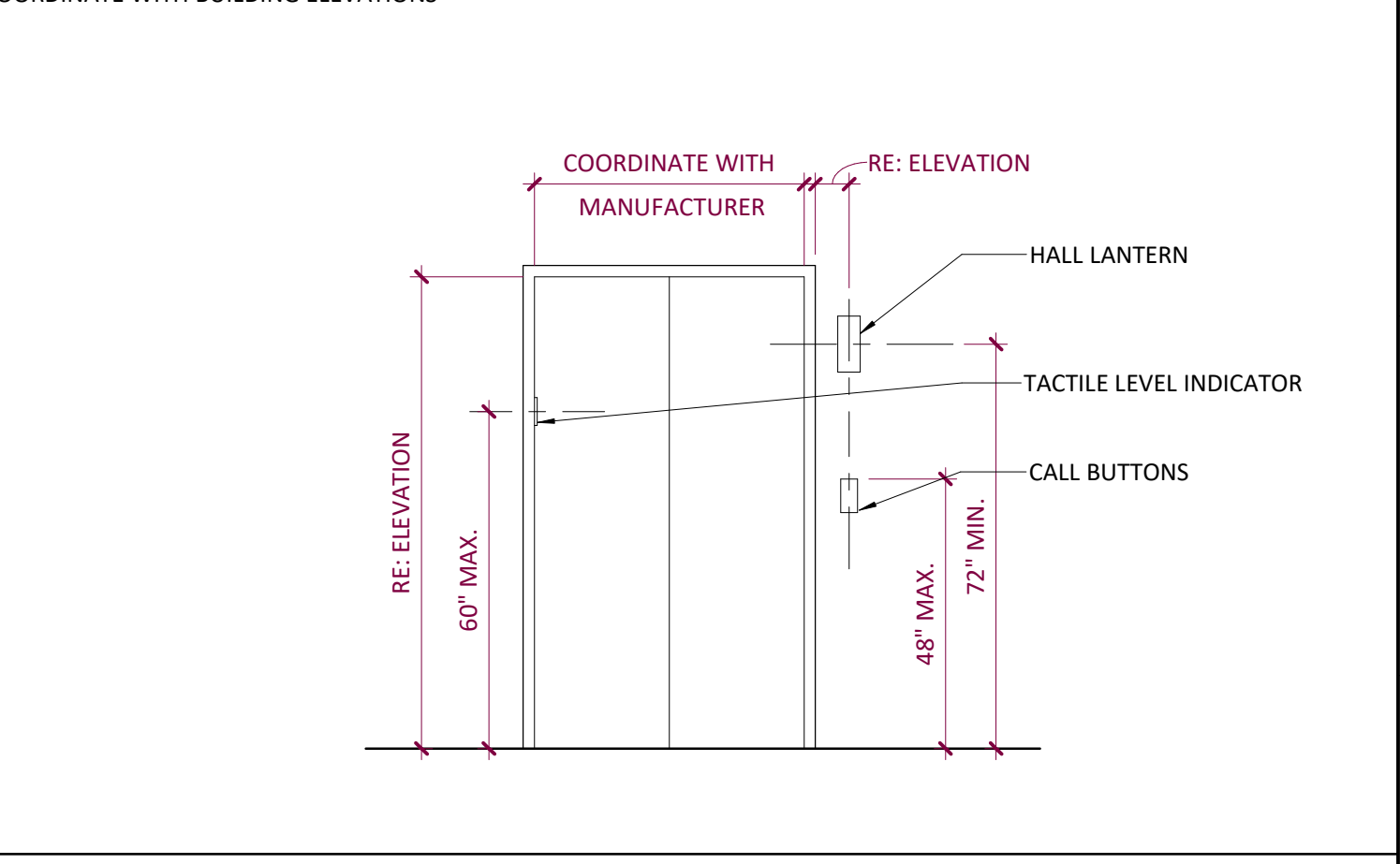
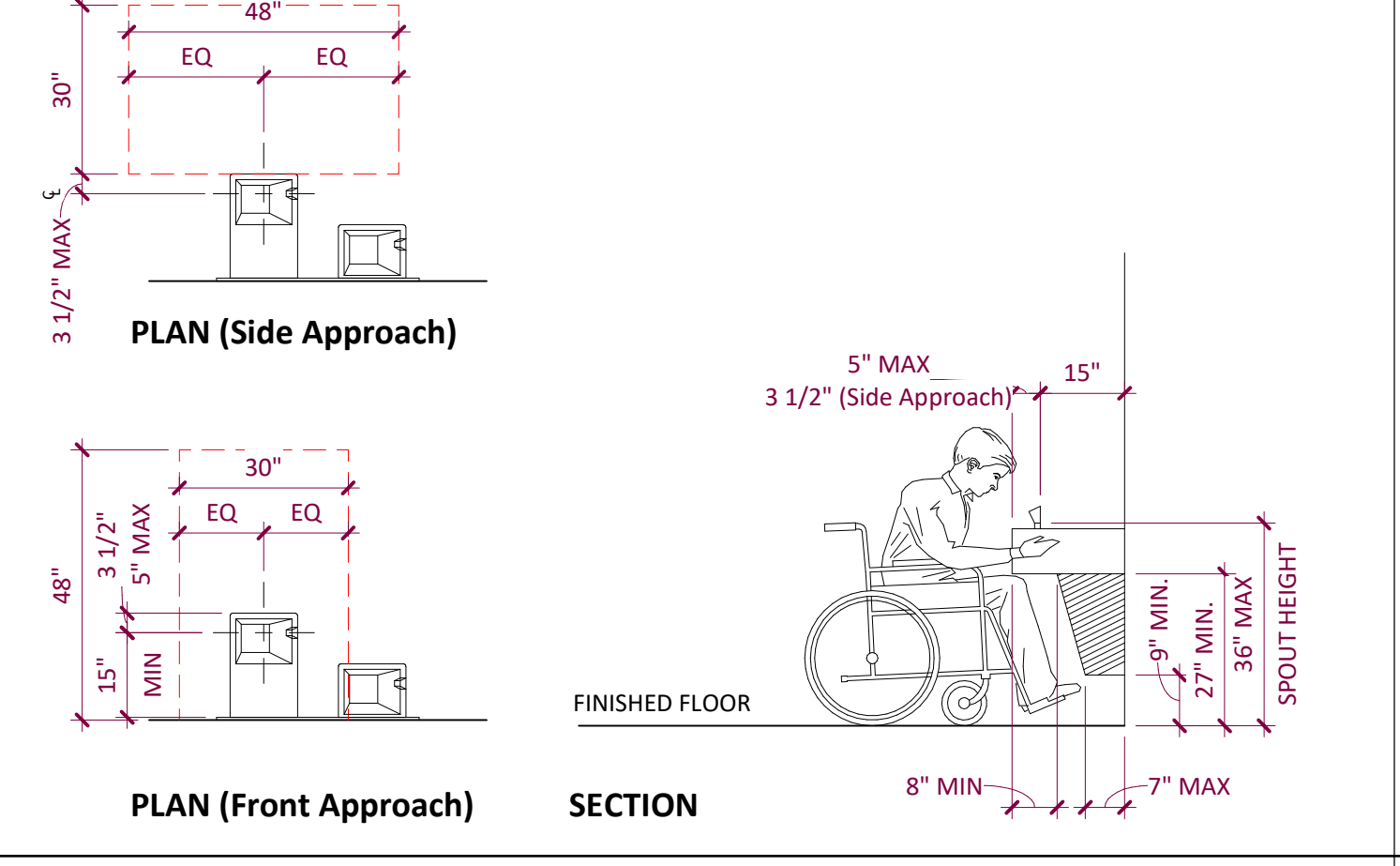
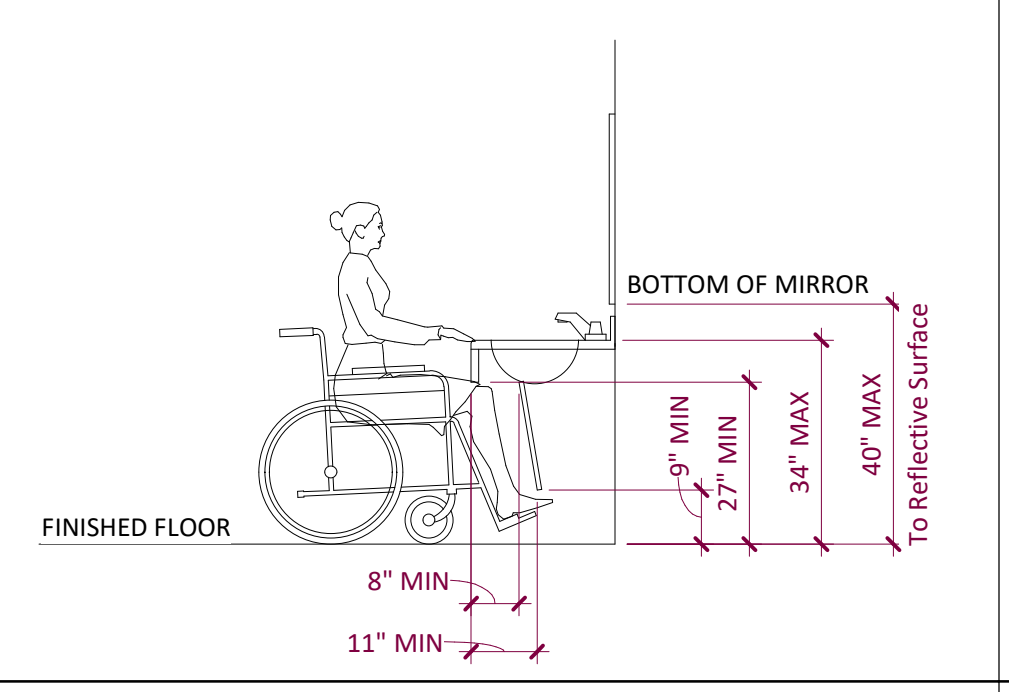
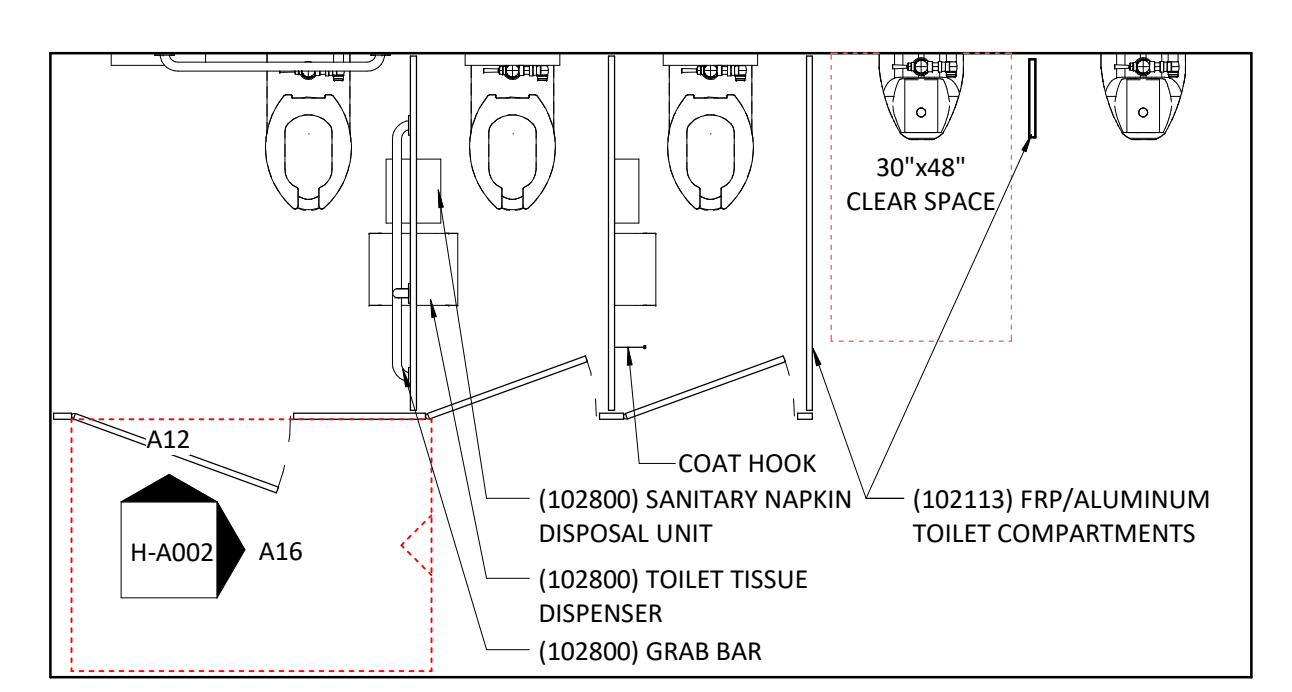
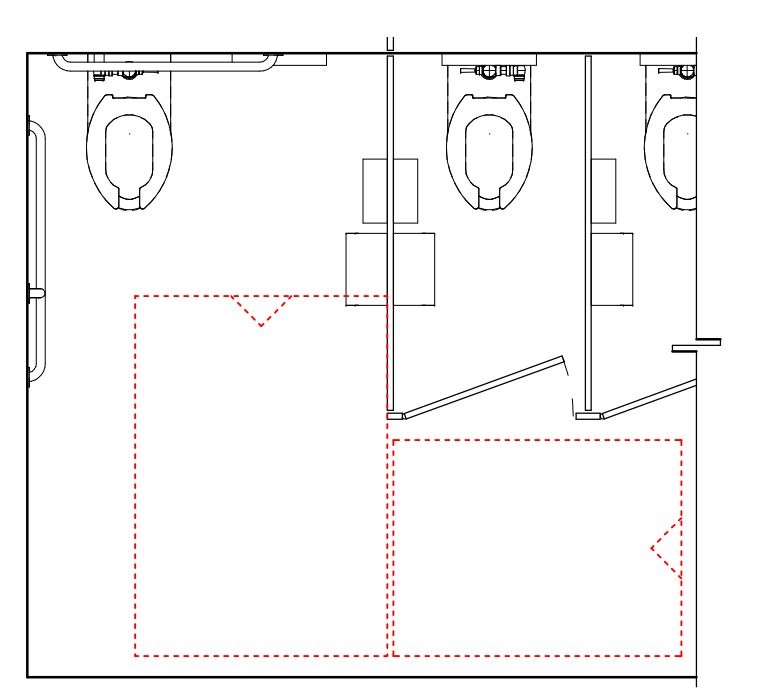
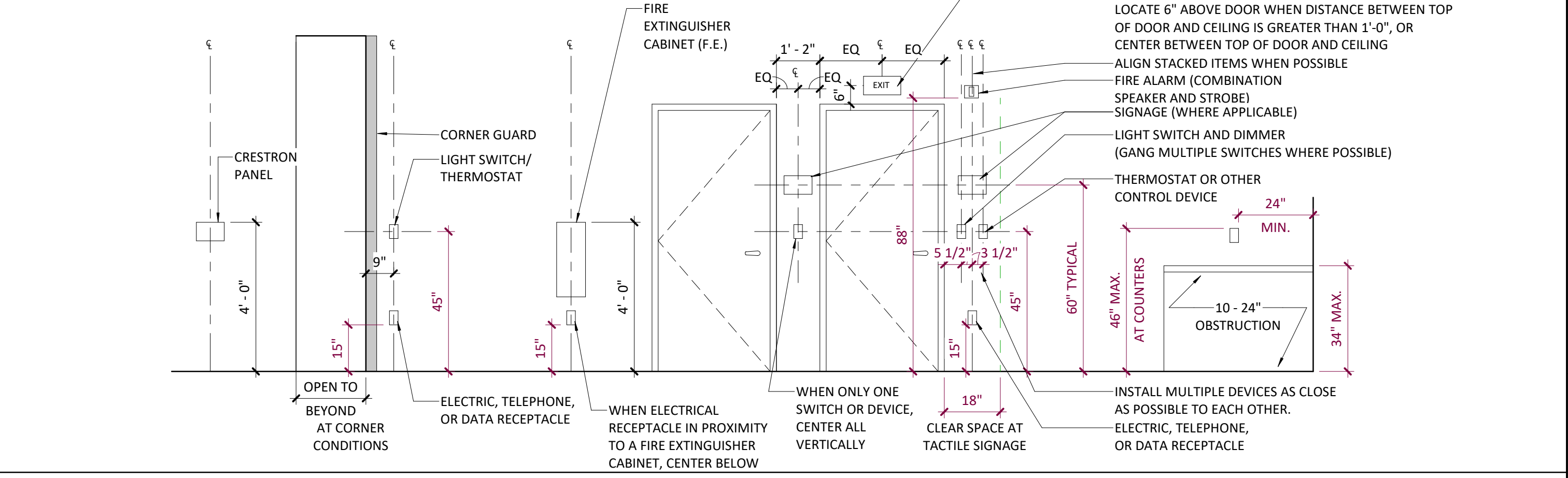
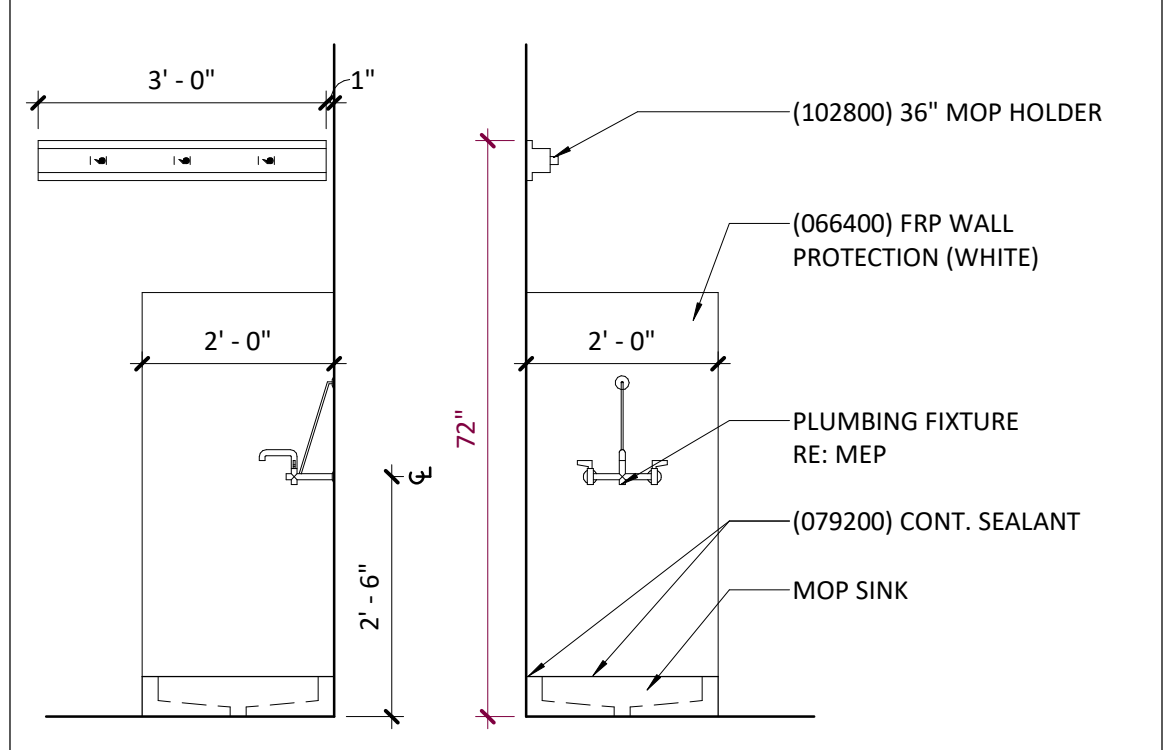
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REVISIONS

Number	DESCRIPTION	DATE

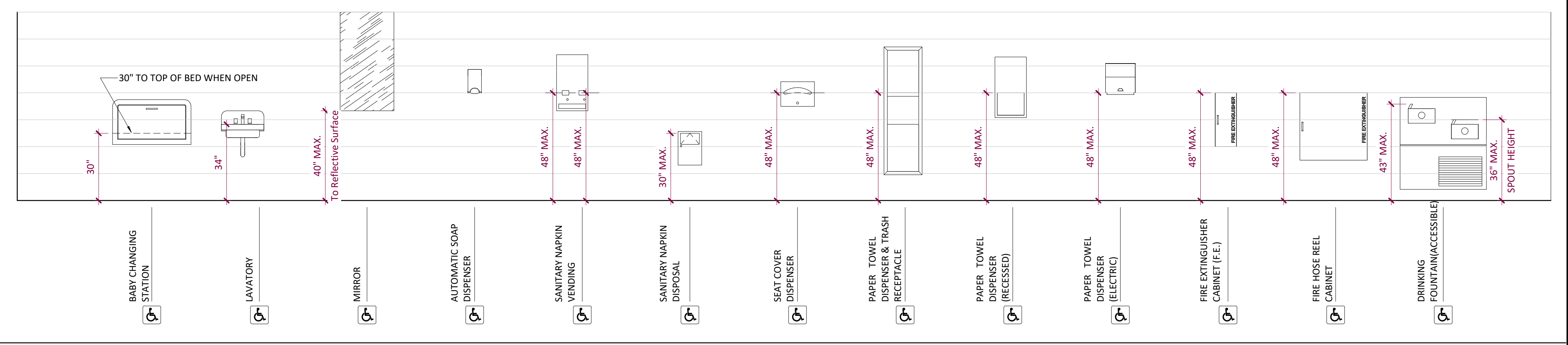
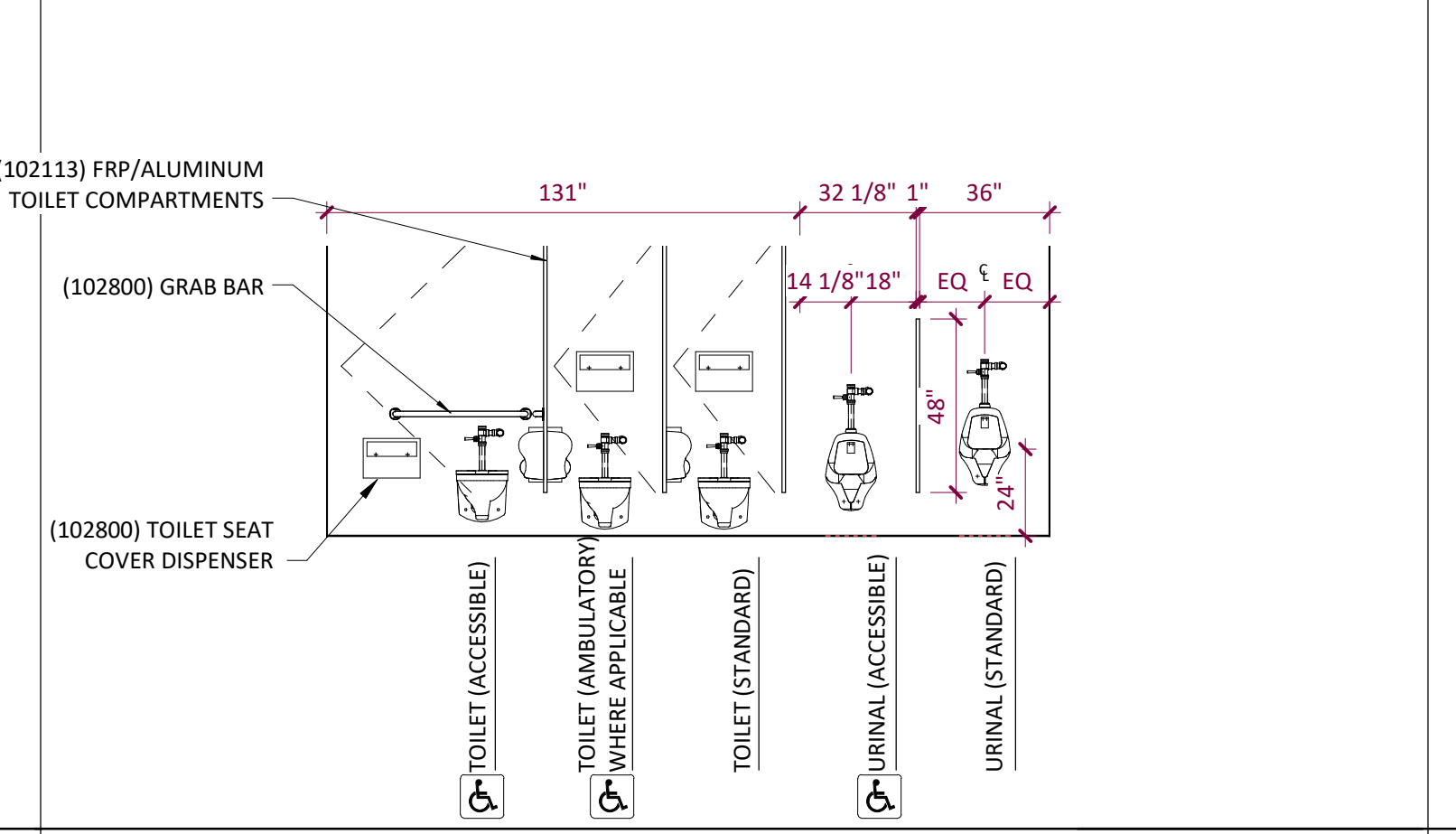
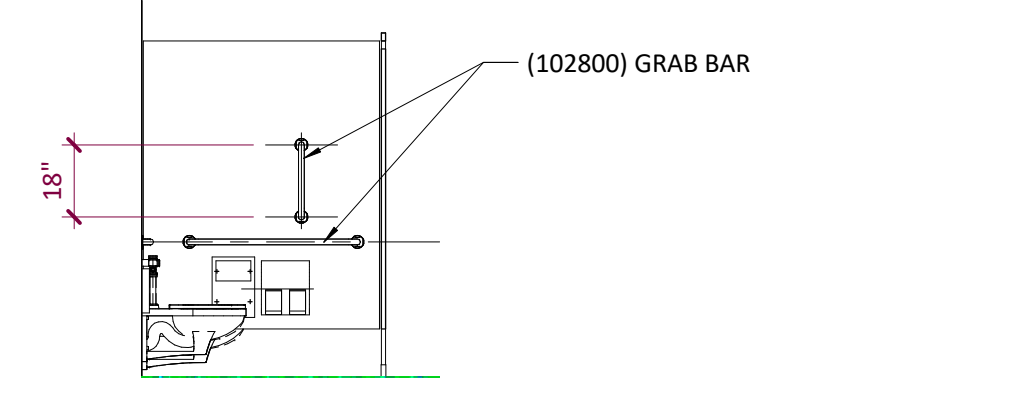
Alternate Accessible Stall D16
 3/8" = 1'-0"

Floor Plan - Toilet Fixture Standard D12
 3/8" = 1'-0"

Lavatory Guidelines D9
 3/8" = 1'-0"

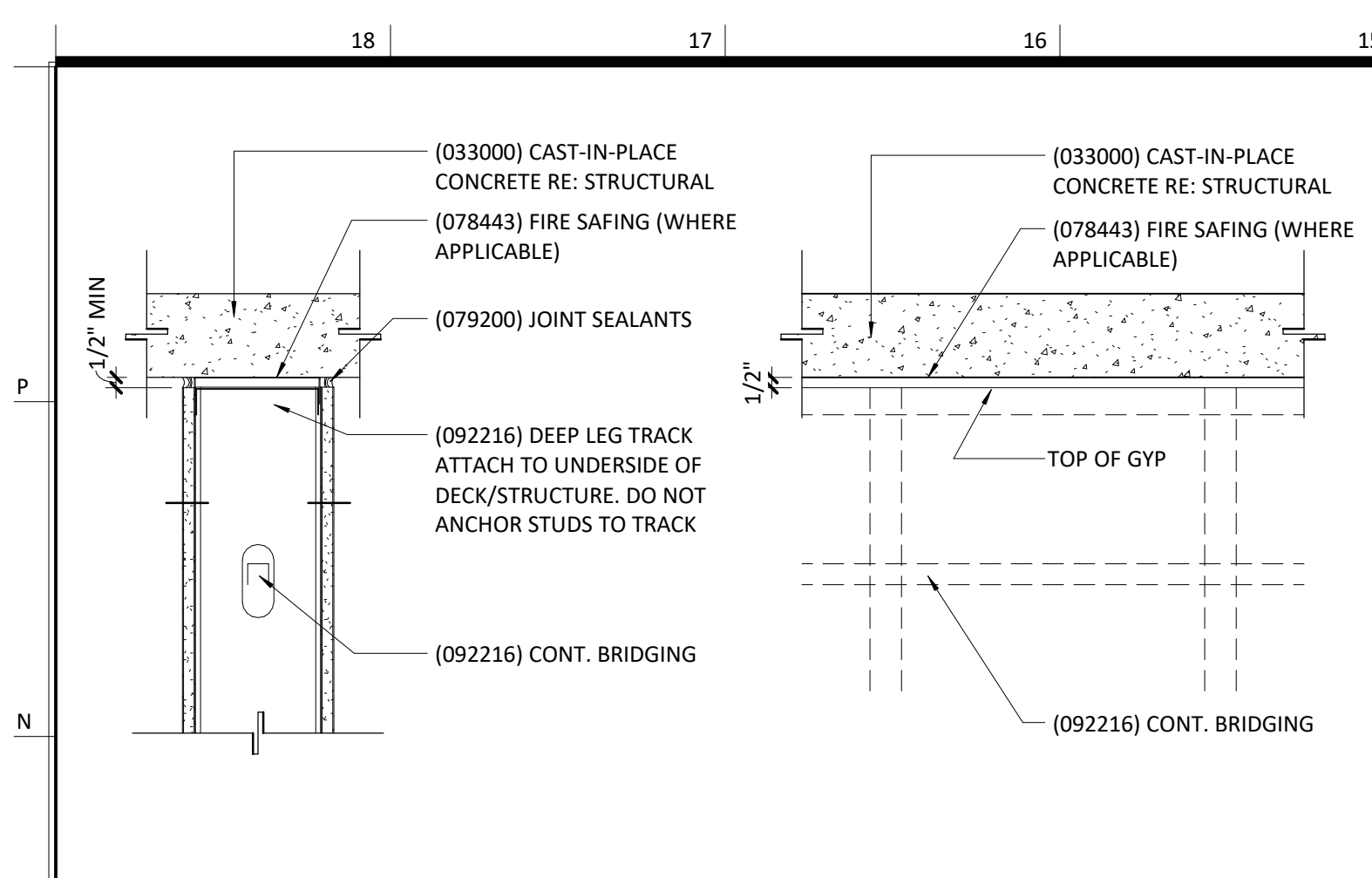
Drinking Fountain Guidelines D5
 3/8" = 1'-0"

Typical Elevator Door D1
 3/8" = 1'-0"

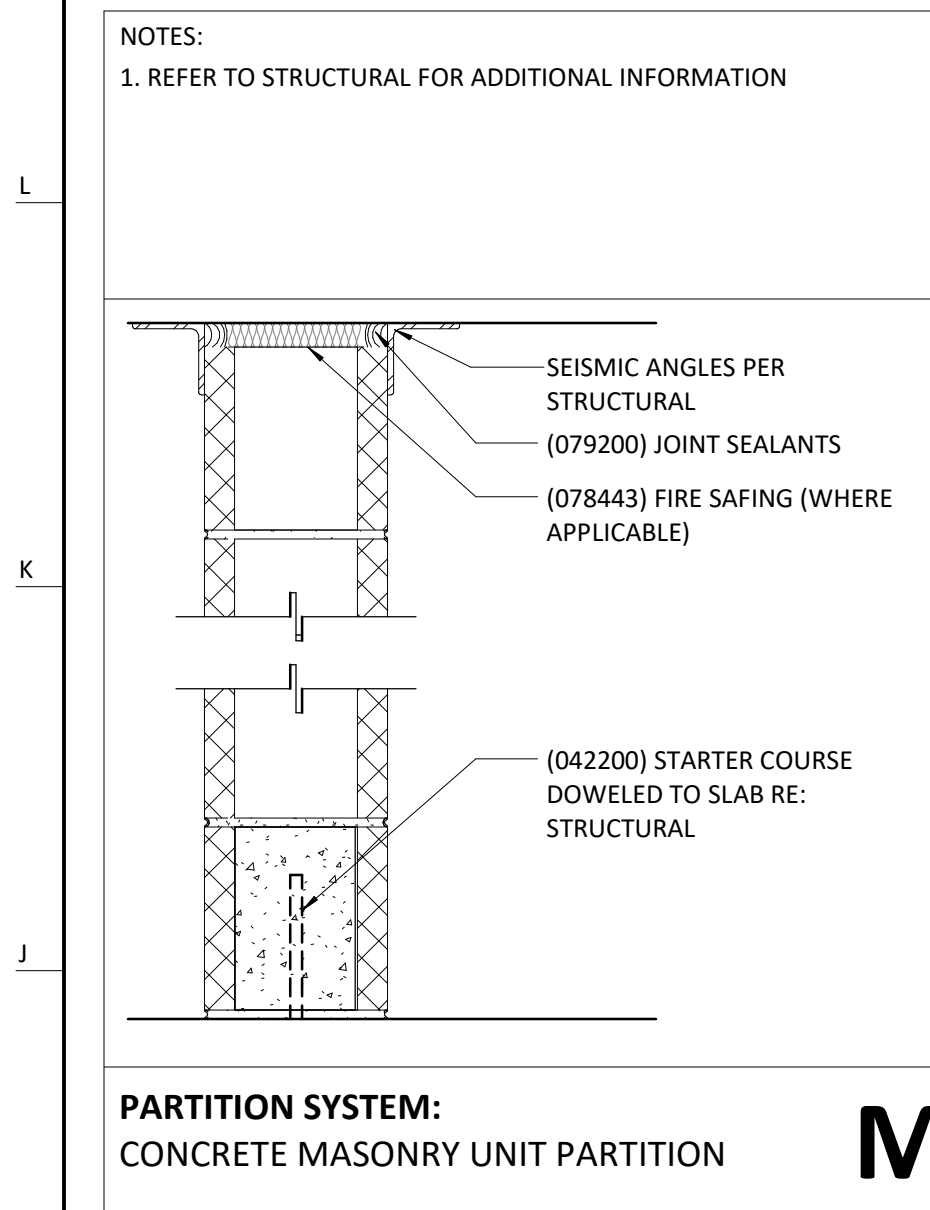


PROJECT NO: 0119-0101
 DATE: September 28, 2020

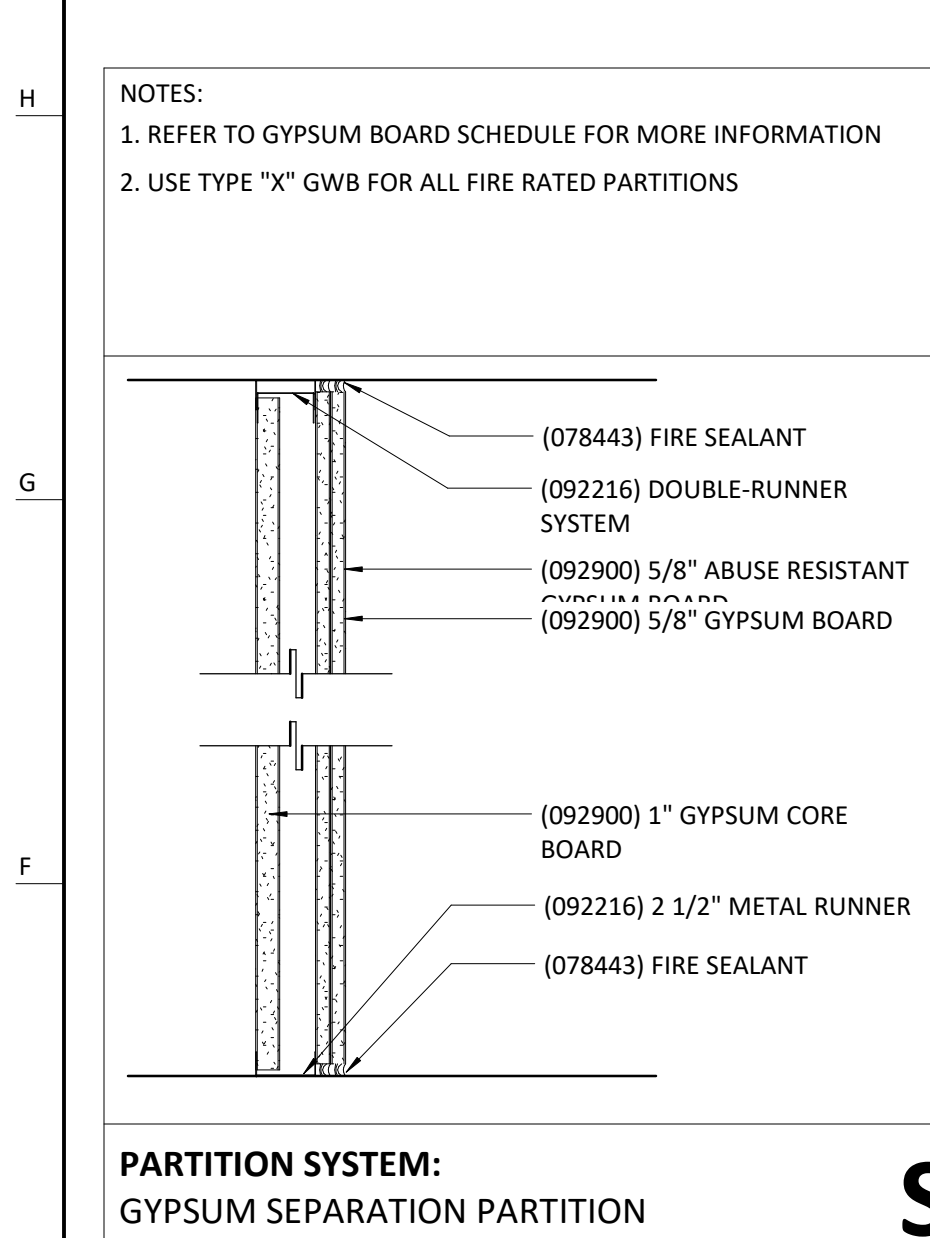
Accessibility Standards
 & Mounting Heights
H-A002
 BID SET



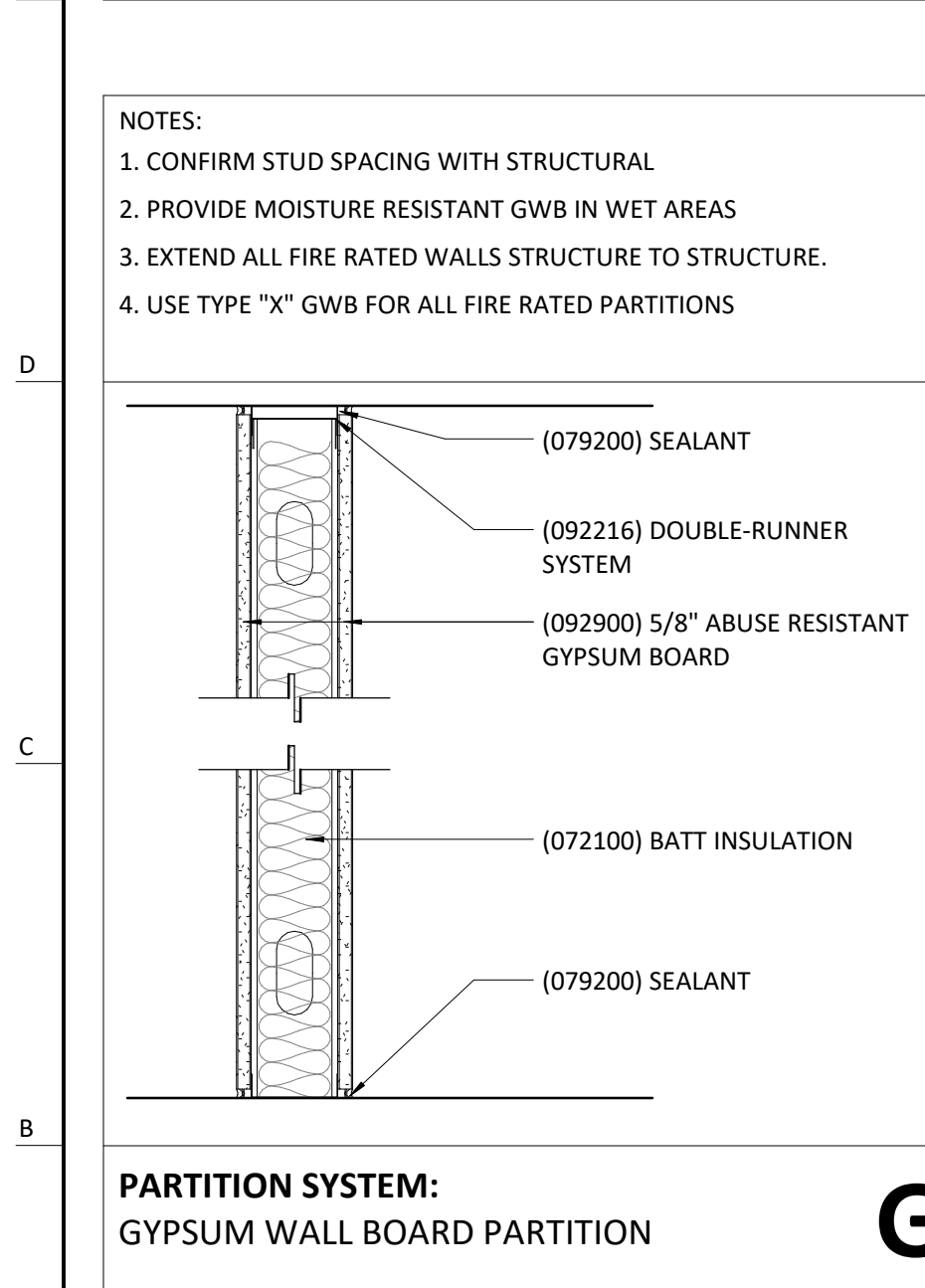
Partition to Underside of Deck - Non-Rated
1 1/2" = 1'-0"



PARTITION IDENTIFICATION PLAN SYMBOL	M6	M8	M12
BASE PARTITION THICKNESS	5 5/8"	7 5/8"	11 5/8"
MASONRY MATERIAL	CMU	CMU	CMU
MASONRY SIZE (NOMINAL)	6X8X16	8X8X16	12X8X16
BEARING WALL	-	-	-
FIRE RATING (HRS)	-	-	-
FIRE TEST NUMBER	-	-	-
FIRE TEST NUMBER (HEAD OF WALL)	-	-	-
(078443) FIRE RESISTIVE JOINTS	-	-	-
TO 6" ABOVE CEILING	NO	NO	NO
TO STRUCTURE ABOVE	YES	YES	YES
REMARKS:			

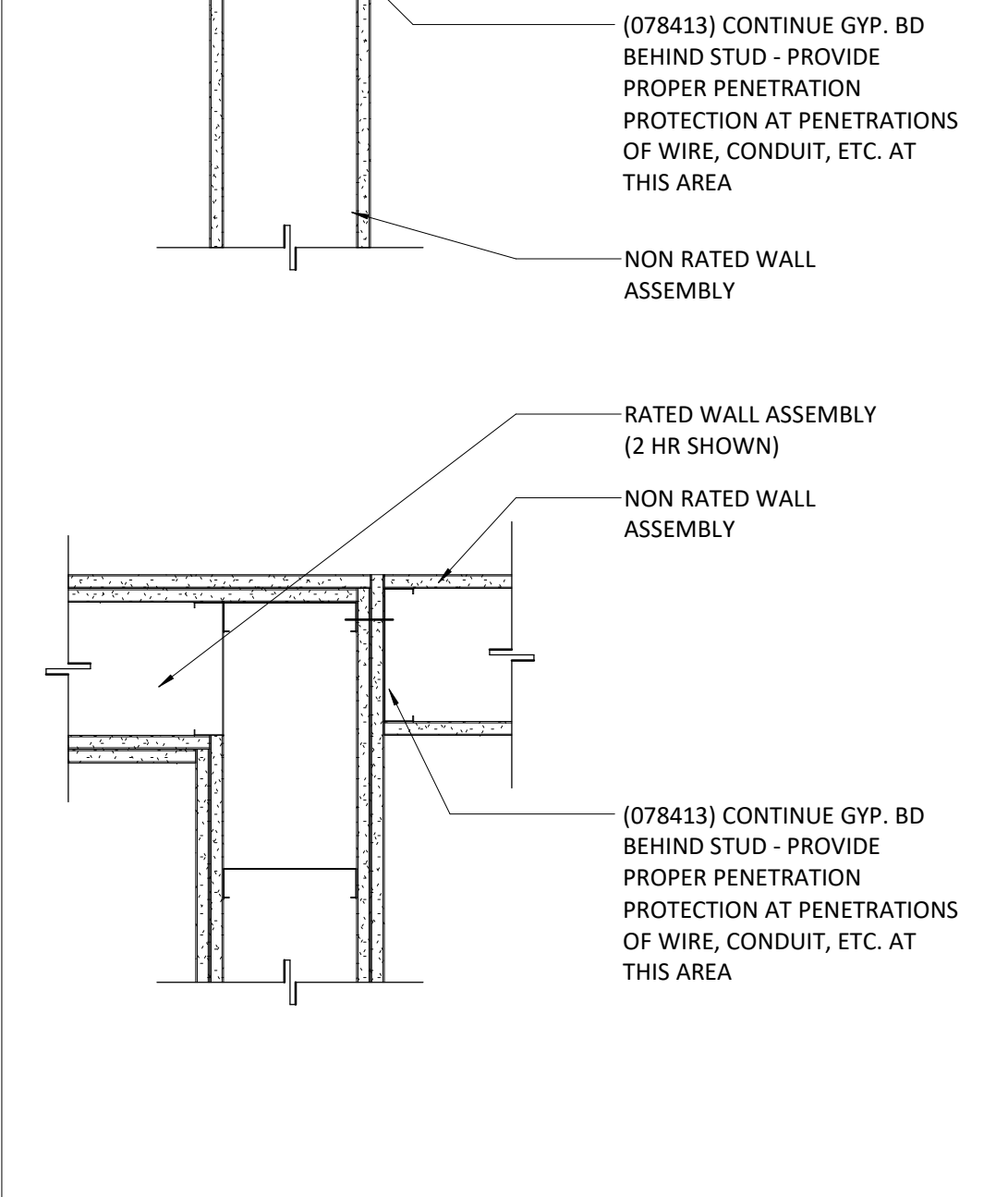
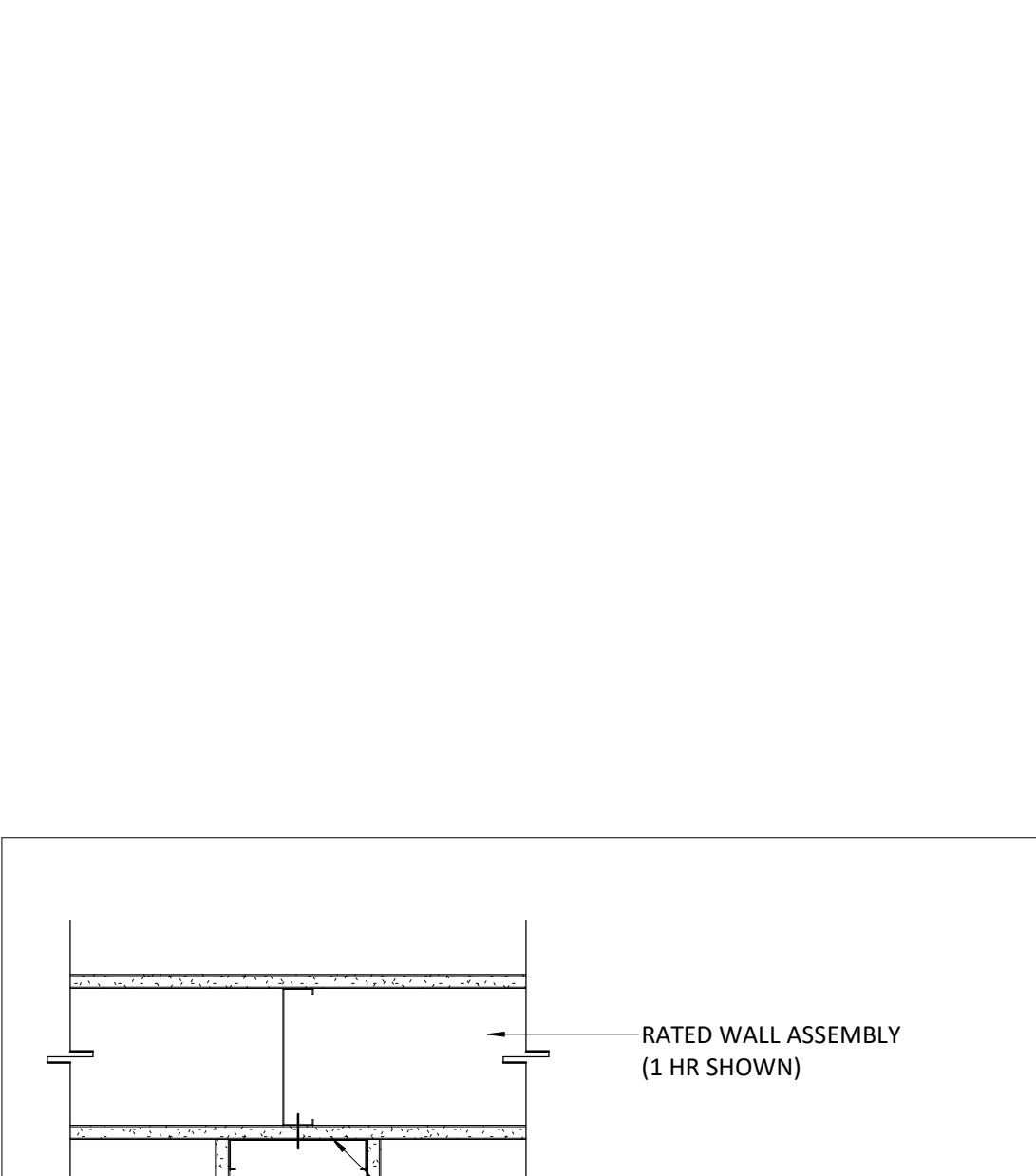


PARTITION IDENTIFICATION PLAN SYMBOL	S6
BASE PARTITION THICKNESS	5 1/4"
STUD SPACING (O.C.)	16"
STUD SIZE	4" CH
GWB THICKNESS	(2) 5/8"
SHAFT LINER THICKNESS	-
FIRE RATING (HRS)	-
FIRE TEST NUMBER	2
FIRE TEST NUMBER (HEAD OF WALL)	UL-U438
(078443) FIRE RESISTIVE JOINTS	YES
TO STRUCTURE ABOVE	NO
TO STRUCTURE ABOVE	NO
TO STRUCTURE ABOVE	YES
REMARKS:	

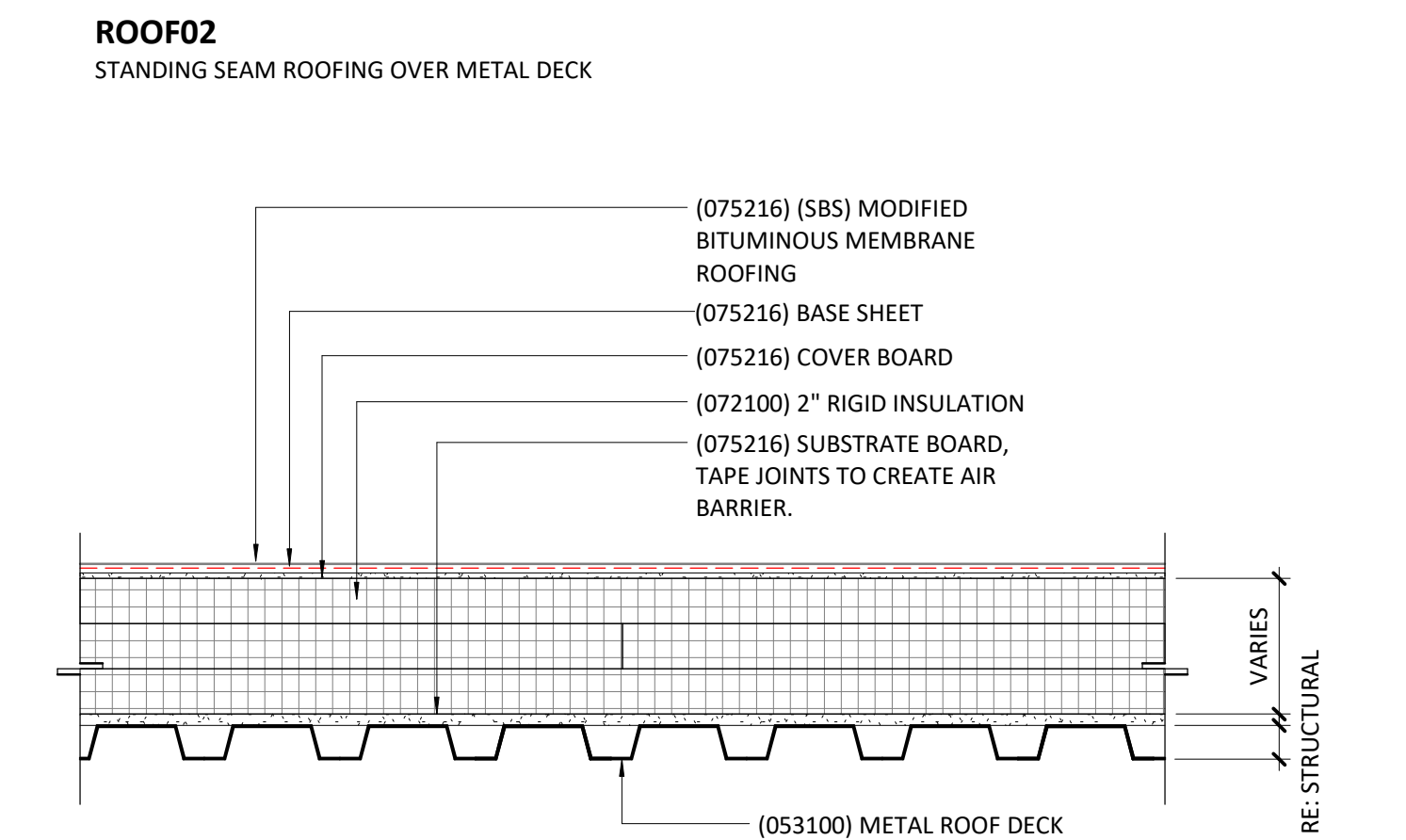
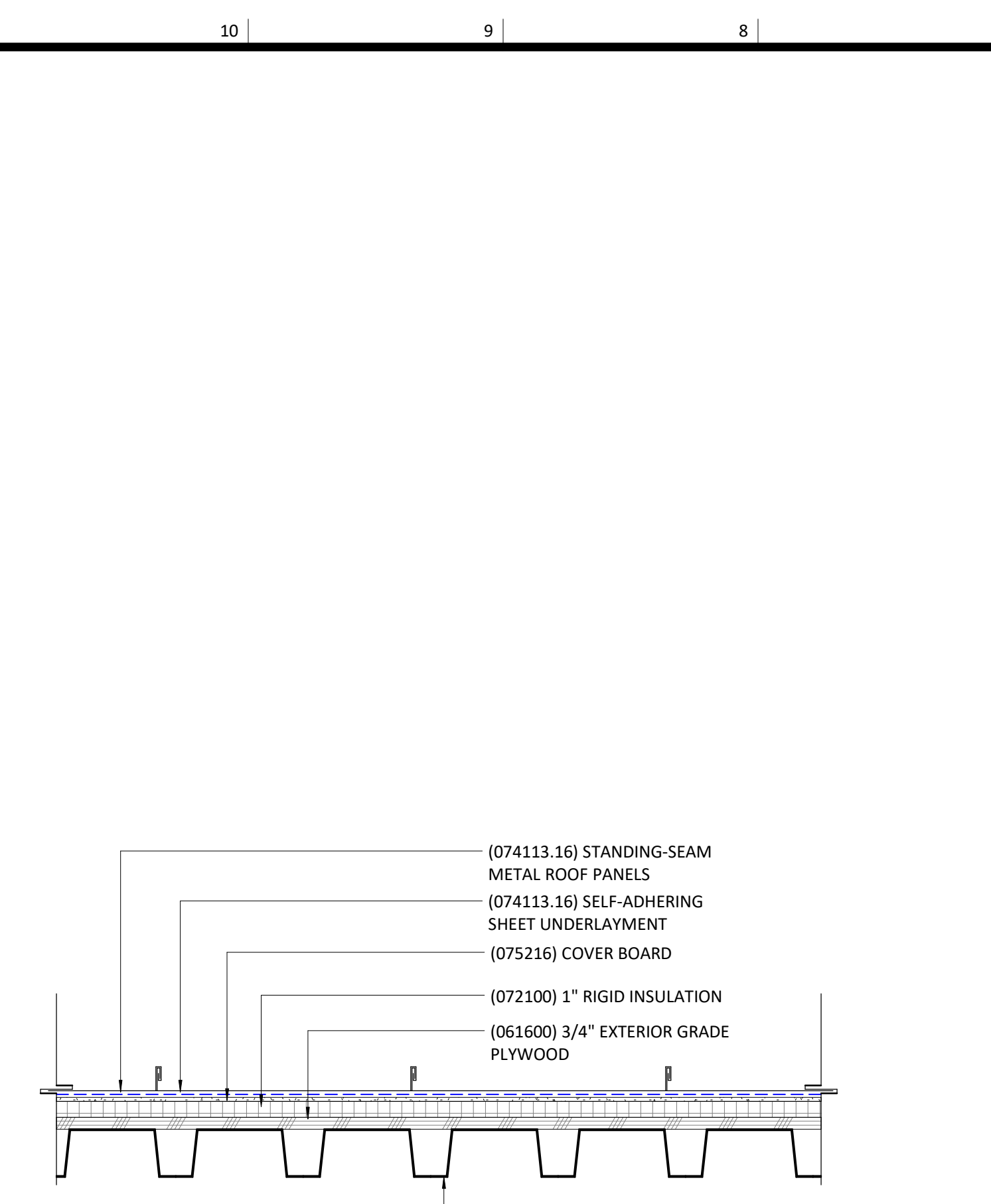


PARTITION IDENTIFICATION PLAN SYMBOL	G4a
BASE PARTITION THICKNESS	4 7/8"
STUD SPACING (O.C.)	16"
STUD SIZE	3 5/8"
GWB THICKNESS	5/8"
FIRE RATING (HRS)	-
FIRE TEST NUMBER	-
FIRE TEST NUMBER (HEAD OF WALL)	-
(078443) FIRE RESISTIVE JOINTS	-
ACOUSTIC RATING (STC)	44
ACOUSTICAL TEST NUMBER	NGC2514
RESILIENT CHANNELS	NO
INSULATION THICKNESS	2 1/2"
ACOUSTICAL JOINTS (079219)	YES
TO 6" ABOVE CEILING	NO
GWB STRUCTURE ABOVE	YES
STUDS TO STRUCTURE ABOVE	YES
REMARKS:	

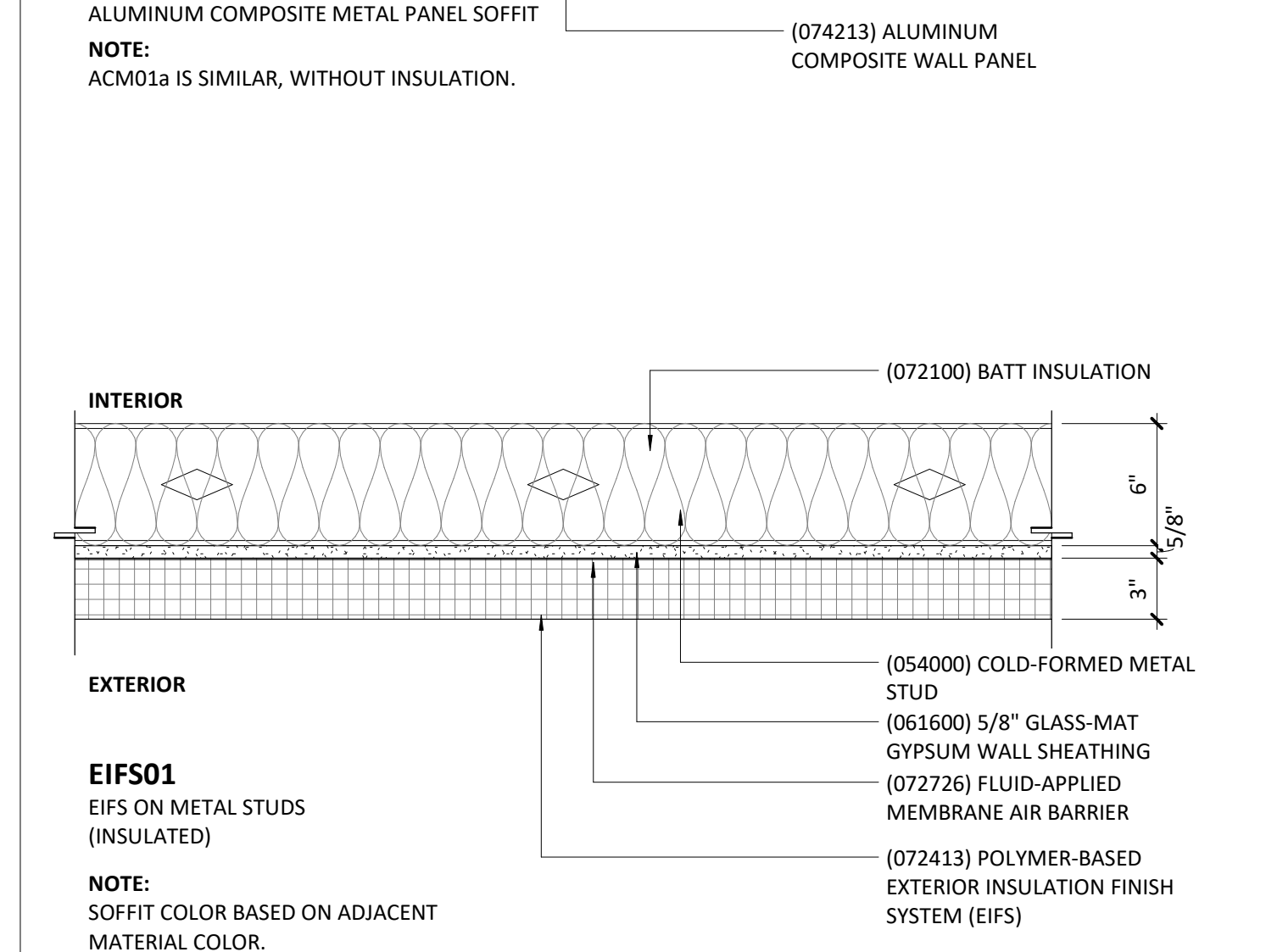
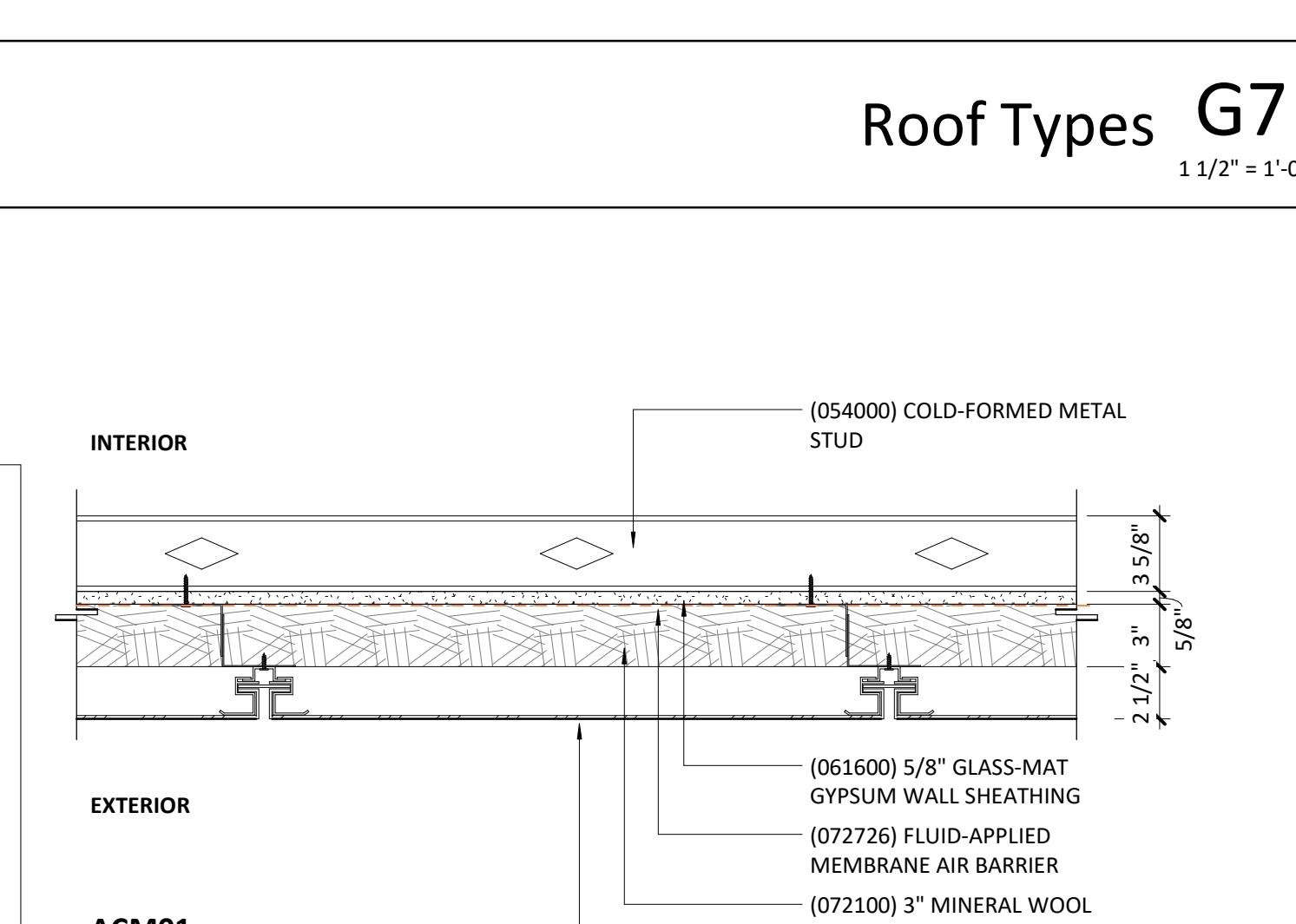
Interior Partition Types A14
1 1/2" = 1'-0"



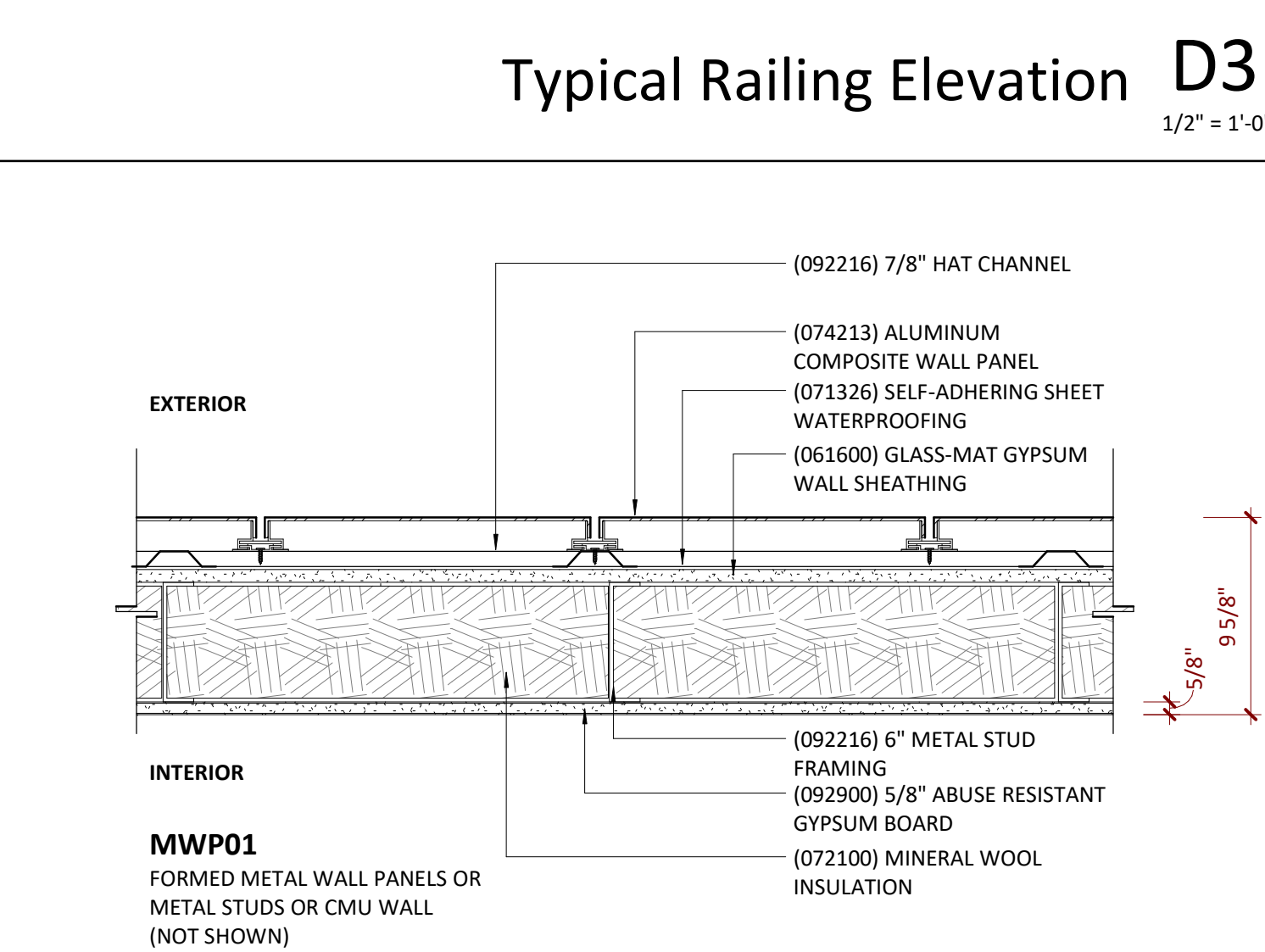
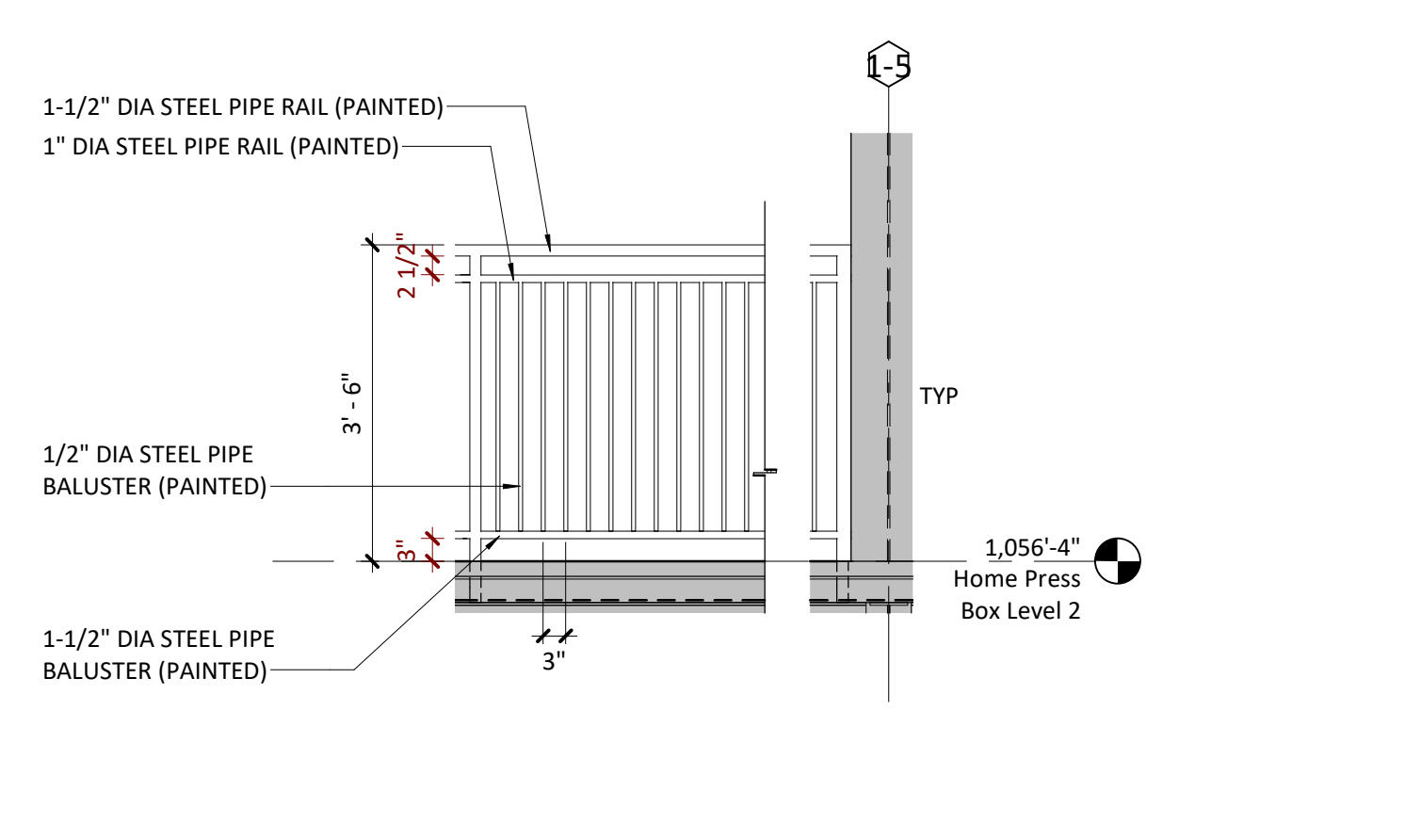
Wall Intersections A11
1 1/2" = 1'-0"



Roof Types G7
1 1/2" = 1'-0"



Exterior Soffit Types A7
1 1/2" = 1'-0"



Exterior Wall Types A3
1 1/2" = 1'-0"

General Notes (Exterior Enclosure):

- ALL OPENINGS, FLASHING, COUNTER FLASHING, AND EXPANSION JOINTS SHALL BE WATERTIGHT.
- ALL OPEN JOINTS, PENETRATIONS, AND OTHER OPENINGS IN THE ENVELOPE SHALL BE SEALED, GASKETED, OR WEATHER-STRIPPED TO LIMIT AIR LEAKAGE.
- PROVIDE MOLD RESISTANT GYPSUM BOARD AT ALL EXTERIOR WALLS.

General Notes (Interior Partitions):

- REFER TO PLANS/CODE PLANS FOR PARTITION TYPE LOCATIONS.
- PARTITION TYPES DESIGNATED ON PLANS SHALL RUN FROM CORNER TO CORNER UNLESS OTHERWISE NOTED.
- PARTITIONS SHALL EXTEND TO STRUCTURE ABOVE AND SHALL BE CONSTRUCTED TO ACCOMMODATE DEFLECTION UNLESS NOTED OTHERWISE.
- FIRE-RESISTANCE-RATED PARTITIONS SHALL BE CONSTRUCTED IN ACCORDANCE WITH THE REFERENCED ASSEMBLY DESCRIPTION. REFER TO CODE PLANS FOR MORE INFORMATION.
- FIRE-RATED WALLS REQUIRED TO HAVE PROTECTED OPENINGS SHALL BE PERMANENTLY IDENTIFIED WITH SIGNS OR STENCILING ACCEPTABLE TO THE AUTHORITY HAVING JURISDICTION. SUCH SIGNAGE SHOULD BE ABOVE ACCESSIBLE CEILING AND/OR BELOW ACCESSIBLE FLOORS.
- WHERE DIFFERENT PARTITION TYPES INTERSECT, THE PARTITION TYPE WITH THE GREATER FIRE-RESISTANCE RATING SHALL CONTINUE WITHOUT INTERRUPTION.
- PENETRATIONS OF FIRE-RESISTANCE-RATED ASSEMBLIES SHALL BE PROVIDED WITH FIRE-RATED PENETRATION PROTECTION IN ACCORDANCE WITH AN APPROVED UNDERWRITERS LABORATORY SYSTEM.
- FIRE DAMPERS OR FIRE DOORS SHALL BE PROVIDED WHERE AIR DUCTS OR OPENINGS PENETRATE FIRE-RATED PARTITIONS.
- AT ALL WET AREAS AND LOCATIONS TO RECEIVE TILE. COORDINATE THE SUBSTRATE MATERIAL WITH PROJECT MANUAL. EXTEND THE SUBSTRATE A MINIMUM OF 4'-0" BEYOND THE WET AREA.
- USE ACOUSTICAL SEALANT AROUND ALL PIPES, DUCTS, CONDUIT, JUNCTION BOXES, ETC. ON BOTH SIDES OF CROSSING / PENETRATING WALLS WITH ACOUSTICAL RATINGS. COLOR MATCH SEALANT TO THE ADJACENT WALL COLOR.
- PROVIDE IMPACT RESISTANT TRIM OR CASING AT ALL EDGES OF PLASTER AND GYPSUM BOARD SURFACES WHERE IT TERMINATES OR MEETS ANY OTHER MATERIAL, UNLESS NOTED OTHERWISE.
- PROVIDE IMPACT RESISTANT CORNER BEADS AT ALL OUTSIDE CORNERS OF PLASTER AND GYPSUM BOARD SURFACES, UNLESS NOTED OTHERWISE.
- CONTRACTOR TO PROVIDE WOOD BLOCKING BEHIND ALL TOILET ROOM ACCESSORIES, GRAB BARS, HANDRAILS, WOOD TRIM, AND WALL MOUNTED FIXTURES.
- INSTALL CONTROL JOINTS IN GYPSUM BOARD CONSTRUCTION AS SHOWN ON THE DRAWINGS AND IN PARTITIONS AND WALL FURRING RUNS EXCEEDING 30 FEET, SPACING CONTROL JOINTS NOT MORE THAN 30 FEET O.C. VERIFY LOCATIONS WITH ARCHITECT. INSTALL CONTROL JOINTS IN FURRED ASSEMBLIES WHERE CONTROL JOINTS OCCUR IN BASE EXTERIOR WALL.

Gypsum Board Schedule

5/8" GYPSUM BOARD	ALL LOCATIONS UNLESS NOTED BELOW OR DETAILED OTHERWISE.
5/8" ABUSE RESISTANT GYPSUM	HIGH TRAFFIC AREAS SUCH AS LOBBIES, PUBLIC CORRIDORS AND WORK ROOMS SUCH AS: JANITOR, HOUSEKEEPING, MECHANICAL, ETC.
5/8" GLASS MAT BACKING BOARD	"WET" WALLS NON-RATED WITH PLUMBING FIXTURES, DRINKING FOUNTAINS, TOILETS, LAVATORIES, URINALS, ETC.
1/2" FIBER BACKING PANELS	WALLS EXPOSED DIRECTLY TO RUNNING WATER AND SCHEDULE TO RECEIVE TILE. BATHTUBS, SHOWERS, ETC.

Interior Partition Naming Convention

PARTITION MATERIAL TYPE
NOMINAL STUD/PARTITION THICKNESS
FIRE RATING OR OTHER MODIFIER

G6.1

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STATE OF MISSOURI
JAY BROWNING
REGISTERED ARCHITECT
009002279
9.28.20

Architectural Corporation
Missouri License No. 2018022591
Jay Browning Date: 09/28/2020
Architect License No. A-200902279

REVISIONS

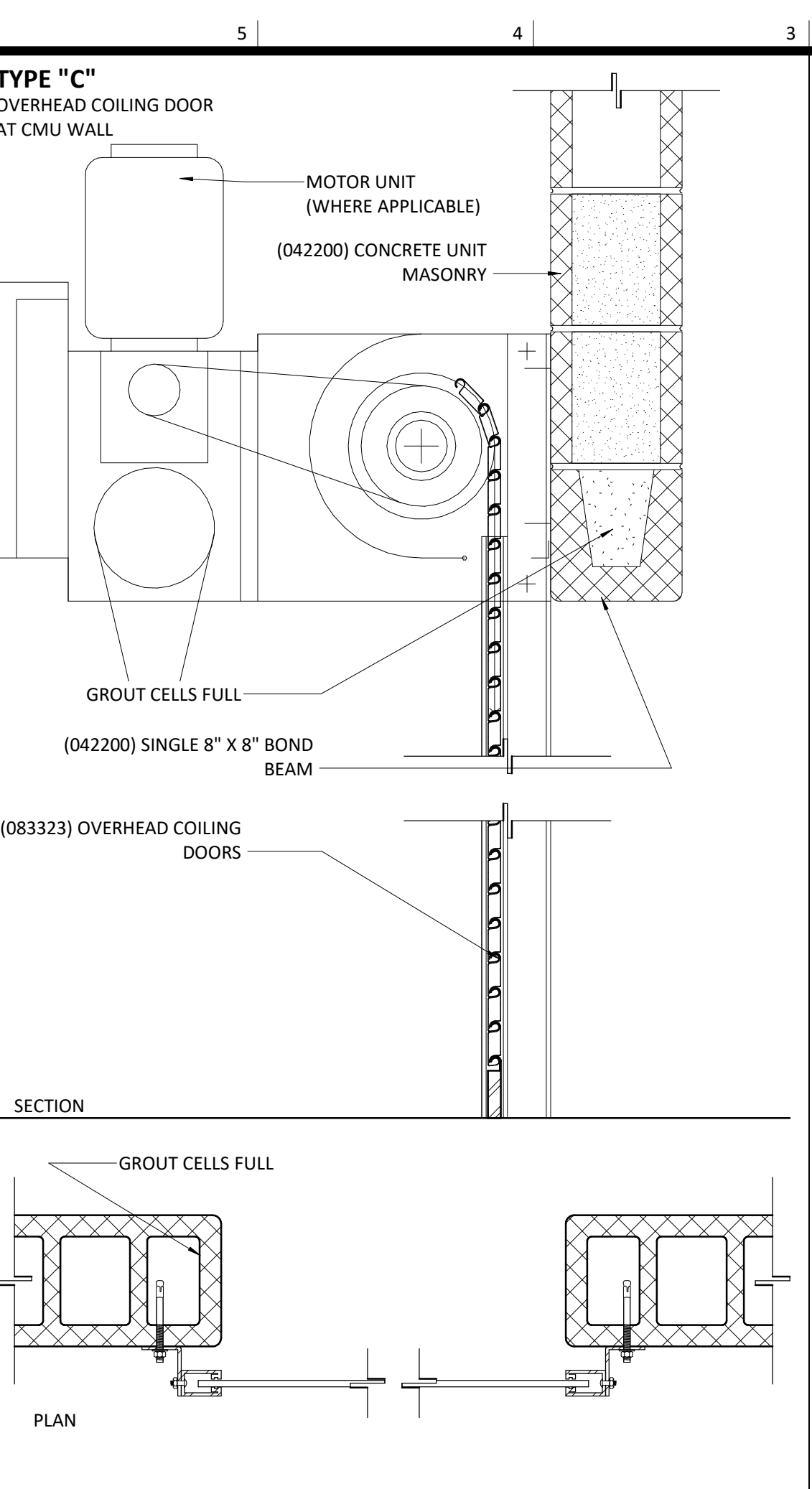
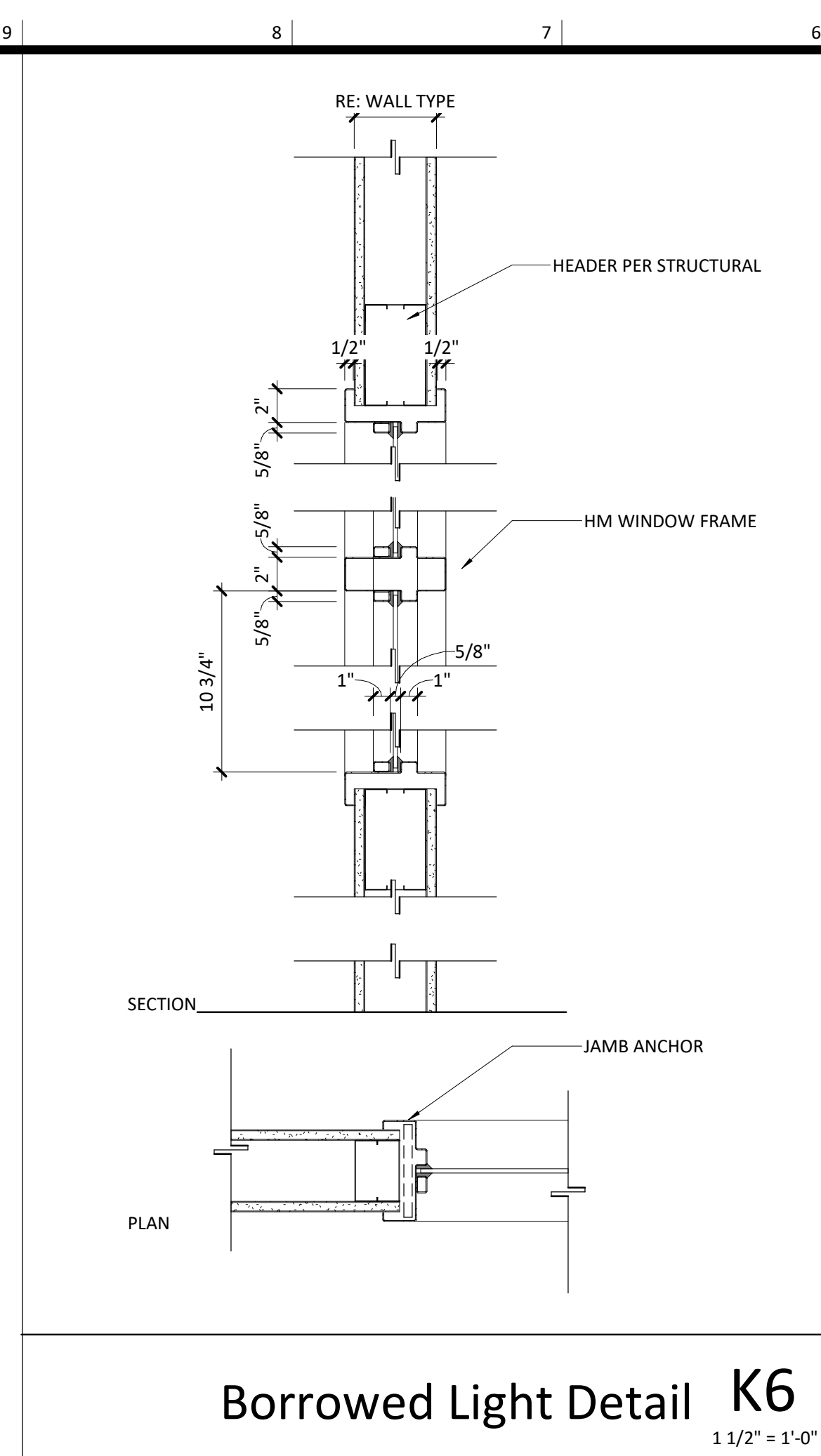
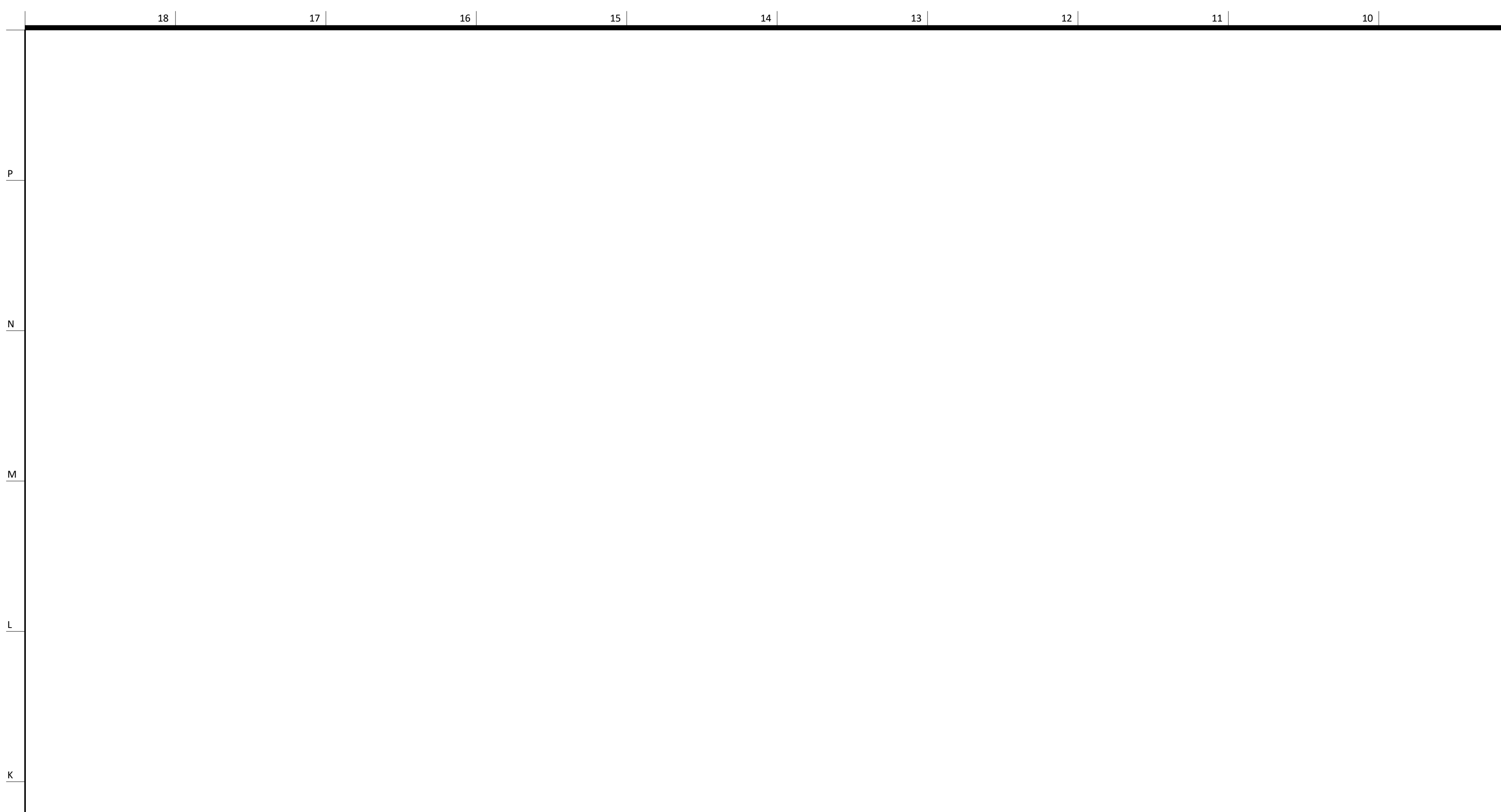
Number	DESCRIPTION	DATE

PROJECT NO: 0119-0101
DATE: September 28, 2020

Exterior Enclosure Types & Interior Partition Types

H-A020

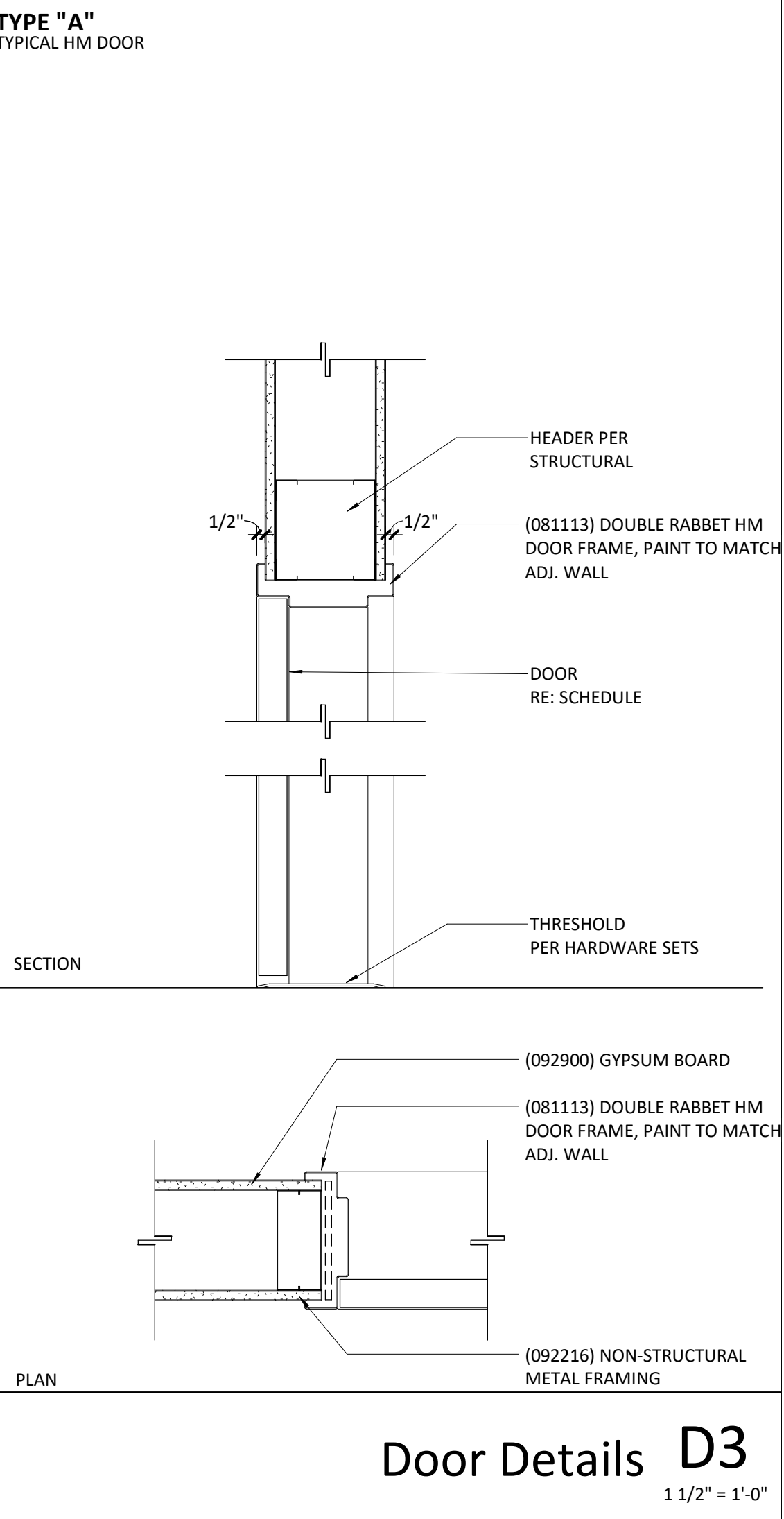
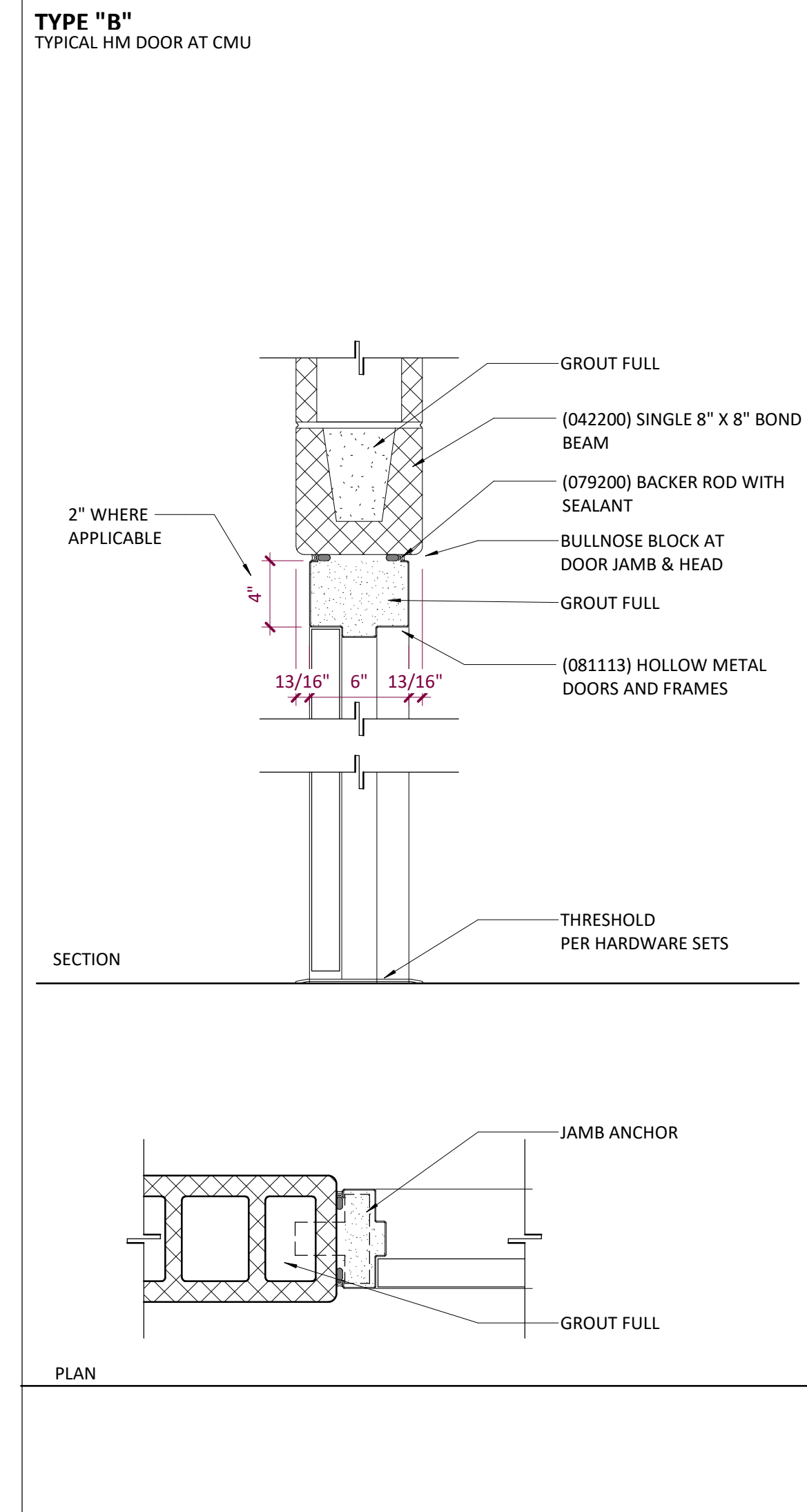
BID SET



- General Notes (Door Schedule):**
- THRESHOLDS SHALL COMPLY WITH ACCESSIBILITY REGULATIONS.
 - ALL DOOR FRAMES ARE TO BE WELDED.
 - EDGE CLEARANCES IN ACCORDANCE WITH AWI QUALITY STANDARDS.
 - DOORS LOCATED IN CORNERS ARE TO HAVE THE INSIDE FACE OF JAMB LOCATED 4 INCHES FROM THE ADJACENT WALL FINISH (8 INCHES IN MASONRY WALLS) UNLESS NOTED OTHERWISE.
 - PROVIDE BLOCKING AT ALL WALL MOUNTED DOOR STOPS.
 - GLAZING STOPS IN WOOD DOORS: SAME SPECIES AS DOOR FACE, MITERED CORNERS, CONCEALED FASTENERS.
 - FACTORY FINISH WOOD DOORS.
 - ALL EXIST DOORS SHALL BE OPERABLE FROM INSIDE WITHOUT THE USE OF A KEY OR ANY SPECIAL KNOWLEDGE OR EFFORT AND SHALL BE LABELED "THIS DOOR TO REMAIN UNLOCKED DURING BUSINESS HOURS". THIS SIGN SHALL BE IN LETTERS NOT LESS THAN ONE INCH HIGH ON A CONTRASTING BACKGROUND. SPECIAL LOCKING DEVICES SHALL BE OF AN APPROVED TYPE, MANUALLY OPERATED. FLUSH BOLTS OR SURFACE BOLTS ARE PROHIBITED.
 - DOORS LOCATED IN CORNERS ARE TO HAVE THE INSIDE FACE OF JAMB LOCATED 4 INCHES FROM THE ADJACENT WALL FINISH (8 INCHES IN MASONRY WALLS) UNLESS NOTED OTHERWISE.
 - PROVIDE CLOSERS AT ALL FIRE RATED AND EXTERIOR DOORS. COORDINATE WITH HARDWARE SETS.
 - PROVIDE SAFETY GLAZING IN ALL DOORS AND ASSOCIATED ACTIVE/FIXED PANELS.
 - PROVIDE SAFETY GLAZING IN FIXED OR OPERABLE PANELS WHERE WITHIN 24 INCHES OF EITHER EDGE OF A OPERABLE DOOR.
 - PROVIDE SAFETY GLAZING IN FIXED OR OPERABLE PANELS WHERE WITHIN 38 INCHES FROM AND RAMP/STAIR LANDING OR HAND/GUARDRAIL.
 - ANY DOOR CARRYING A U.L. RATING SHALL BE INSTALLED IN A U.L. RATED FRAME CARRYING THE SAME DESIGNATION.
 - PROVIDE FIRE RATED GLAZING IN PANELS LOCATED WITHIN A RATED WALL.
 - CONTRACTOR TO COORDINATE SILL HEIGHTS WITH ELEVATIONS AND WALL SECTIONS.
 - PAINT METAL DOORS AND FRAMES TO MATCH ADJACENT WALLS UNLESS OTHERWISE NOTED. REFER TO FINISH LEGEND FOR ADDITIONAL INFORMATION.
 - REFER TO "PROJECT MANUAL" FOR HARDWARE SETS AND ADDITIONAL DOOR REQUIREMENTS.
- DOOR LEGEND:**
- AL ALUMINUM
 - CA CARD ACCESS DEVICE
 - CL CLOSER
 - FRP FIBERGLASS
 - GL GLASS
 - HC HOLLOW CORE
 - HM HOLLOW METAL
 - L LOUVER
 - PF PRE-FINISHED/FACTORY FINISHED
 - PH PANIC HARDWARE
 - PR PAIR
 - PTD PAINTED
 - SD SMOKE & DRAFT CONTROL
 - SS STAINLESS STEEL
 - STL STEEL
 - T TEMPERED GLASS
 - V VISION
 - WD WOOD
- HARDWARE/OPERATION:**
- CARD READER TYPE 01
 - DOOR MONITOR
 - ELECTRIC LOCK & MONITOR - EACH LEAF IF PAIR
 - VIDEO MONITOR - DOOR STATION WALL MOUNT
 - ADA PUSH BUTTON ON PEDESTAL
 - ADA PUSH BUTTON ON MULLION
 - ADA PUSH BUTTON ON WALL
 - ACOUSTICAL DOOR AND FRAME
 - AUTOMATIC DOOR OPENER BOTH SIDES
- MATERIALS/FINISHES:**
- A. PAINT FRAME TO MATCH ADJACENT WALL
 - B. PAINT DOOR AND FRAME TO MATCH ADJACENT WALL

Window Schedule												
Mark	Size			Comments								
	Width	Height	Sill Height									
A	9' - 8 1/2"	5' - 5 1/2"	2' - 10"									
A	3' - 11 1/2"	5' - 5 1/2"	2' - 10"									
A	9' - 8 1/2"	5' - 5 1/2"	2' - 10"									
A	9' - 8 1/2"	5' - 5 1/2"	2' - 10"									
A	9' - 8 1/2"	5' - 5 1/2"	2' - 10"									
A	9' - 8 1/2"	5' - 5 1/2"	2' - 10"									
A	9' - 8 1/2"	5' - 5 1/2"	2' - 10"									
B	3' - 11 1/2"	5' - 5 1/2"	2' - 10"									
B	3' - 11 1/2"	5' - 5 1/2"	2' - 10"									
C	4' - 0"	4' - 0"	2' - 6"									
C	2' - 1 3/4"	3' - 6"	2' - 8"									
C	2' - 1 3/4"	3' - 6"	2' - 8"									

Door Schedule															
Room	Assembly						Door				Frame		Comments		
	From:	To:	Type	Fire Rating	Hardware Set	Detail Type	Width	Height	Thickness	Material	Finish	Frame Type		Finish	
Home Press Box Level 1															
1-101		H1-101	F	90 Min.	07	B	3' - 0"	7' - 0"	1 3/4"	HM	PT	HM2	PT	FRAME FINISH PT TO MATCH ADJACENT WALL	
1-102		H1-1	F	90 Min.	10	B	3' - 0"	7' - 0"	1 3/4"	HM	PT	HM2	PT	FRAME FINISH PT TO MATCH ADJACENT WALL	
Restrooms															
2-101		H2-101	F	NR	03	B	3' - 0"	7' - 0"	1 3/4"	HM	PT	HM2	PT	FRAME FINISH PT TO MATCH ADJACENT WALL	
2-103		H2-103	F	NR	11	B	3' - 0"	7' - 0"	1 3/4"	HM	PT	HM2	PT	FRAME FINISH PT TO MATCH ADJACENT WALL	
2-104		H2-104	F	NR	11	B	3' - 0"	7' - 0"	1 3/4"	HM	PT	HM2	PT	FRAME FINISH PT TO MATCH ADJACENT WALL	
Visitor Press Box Level 1															
2-106		H2-106	F	NR	04	B	3' - 0"	7' - 0"	1 3/4"	HM	PT	BY MANUFACTURER	PT	FRAME FINISH PT TO MATCH ADJACENT WALL	
Concessions															
2-105		H2-105	F	NR	04	B	3' - 0"	7' - 0"	1 3/4"	HM	PT	HM2	PT	FRAME FINISH PT TO MATCH ADJACENT WALL	
2-106B		H2-106	CD	NR	18	C	15' - 0"	5' - 2"		HM	PT	HM2	PT	OVERHEAD COILING DOOR - FRAME FINISH PT TO MATCH ADJACENT WALL	
2-107		H2-106	H2-107	N	NR	14	B	3' - 0"	7' - 0"	1 3/4"	HM	PT	HM2	PT	FRAME FINISH PT TO MATCH ADJACENT WALL
2-108		H2-106	H2-108	N	NR	14	B	3' - 0"	7' - 0"	1 3/4"	HM	PT	HM2	PT	FRAME FINISH PT TO MATCH ADJACENT WALL
2-109		H2-109	CD	NR	18	C	15' - 0"	7' - 0"	2"	HM	PT	HM2	PT	OVERHEAD COILING DOOR - FRAME FINISH PT TO MATCH ADJACENT WALL	
Ticket Booth															
3-101		H3-101	F	NR	02	B	2' - 8"	7' - 0"	1 3/4"		PT	BY MANUFACTURER	PT	FRAME FINISH PT TO MATCH ADJACENT WALL	
Home Press Box Level 2															
1-201		H1-106	H1-101	F	90 Min.	06	B	3' - 0"	7' - 0"	1 3/4"	HM	PT	HM2	PT	FRAME FINISH PT TO MATCH ADJACENT WALL
1-202		H1-106	H1-1	F	90 Min.	09	B	3' - 0"	7' - 0"	1 3/4"	HM	PT	HM2	PT	FRAME FINISH PT TO MATCH ADJACENT WALL
1-203		H1-203	H1-106	F	NR	08	A	3' - 0"	7' - 0"	1 3/4"	HM	PT	HM1	PT	FRAME FINISH PT TO MATCH ADJACENT WALL
1-204		H1-106	H1-204	F	NR	08	A	3' - 0"	7' - 0"	1 3/4"	HM	PT	HM1	PT	FRAME FINISH PT TO MATCH ADJACENT WALL
1-205		H1-106	H1-205	F	NR	08	A	3' - 0"	7' - 0"	1 3/4"	HM	PT	HM1	PT	FRAME FINISH PT TO MATCH ADJACENT WALL
Home Press Box Level 3															
1-301		H1-303	H1-1	F	90 Min.	06	B	3' - 0"	7' - 0"	1 3/4"	HM	PT	HM2	PT	FRAME FINISH PT TO MATCH ADJACENT WALL
1-302		H1-303	H1-1	F	90 Min.	09	B	3' - 0"	7' - 0"	1 3/4"	HM	PT	HM2	PT	FRAME FINISH PT TO MATCH ADJACENT WALL



Mark	Description
GL01	1/4" CLEAR (Tempered)
IGU01	1" INSULATED GLASS

Window Types (Interior) A15 1/4" = 1'-0"												

Frame Types A12 1/4" = 1'-0"												

Door Types A3 1/4" = 1'-0"												

REVISIONS		
Number	DESCRIPTION	DATE

PROJECT NO: 0119-0101
DATE: September 28, 2020

Door & Window Types & Details
H-A080
BID SET

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Lee's Summit R7 District Athletics Facilities

Lee's Summit High School
400 SW Blue Parkway
Lee's Summit, MO 64063

owner:
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301 NE Tudor Road
Lee's Summit, MO 64086

architect:
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Jay Browning Date: 09/28/2020
Architect License No. A-2009027279

General Notes (Floor Plans):

1. ALL WALL TYPES TO BE M6 UNLESS OTHERWISE NOTED.
2. ALL WALL DIMENSIONS ARE TO FACE OF WALL UNLESS OTHERWISE NOTED.
3. MASONRY WALLS ARE ALIGNED WITH THE INTERIOR FACE ON GRID LINES AND MASONRY DIMENSIONS ARE NOMINAL UNLESS OTHERWISE NOTED.
4. DOORS IN STUD WALLS NEAR PERPENDICULAR WALLS ARE LOCATED 4" OFF FACE OF PERPENDICULAR WALL UNLESS OTHERWISE NOTED.
5. DOORS IN MASONRY WALLS ARE LOCATED IN ROUGH OPENINGS DIMENSIONED ON SHEET.
6. SEE GENERAL ACCESSIBILITY SHEET FOR HEIGHTS AND LOCATIONS OF TOILET ACCESSORIES NOT SHOWN ON ELSEWHERE.
7. CONTRACTOR TO FIELD VERIFY ALL MEASUREMENTS AND CONDITIONS NEW AND EXISTING. NOTIFY THE ARCHITECT/OWNER'S REPRESENTATIVE OF ANY DISCREPANCIES.
8. ENLARGED PLANS MAY BE ROTATED OR MIRRORED COORDINATE WITH MAIN FLOOR PLAN.
9. CONTRACTOR TO PROVIDE 4'-0" HIGH PLYWOOD BACKER BOARD IN ALL MECHANICAL AND ELECTRICAL ROOMS MOUNTED 3'-6" A.F.F. FOR PERIMETER OF ROOM.

**Lee's Summit R7 District
Athletics Facilities**

Lee's Summit High School
400 SW Blue Parkway
Lee's Summit, MO 64063

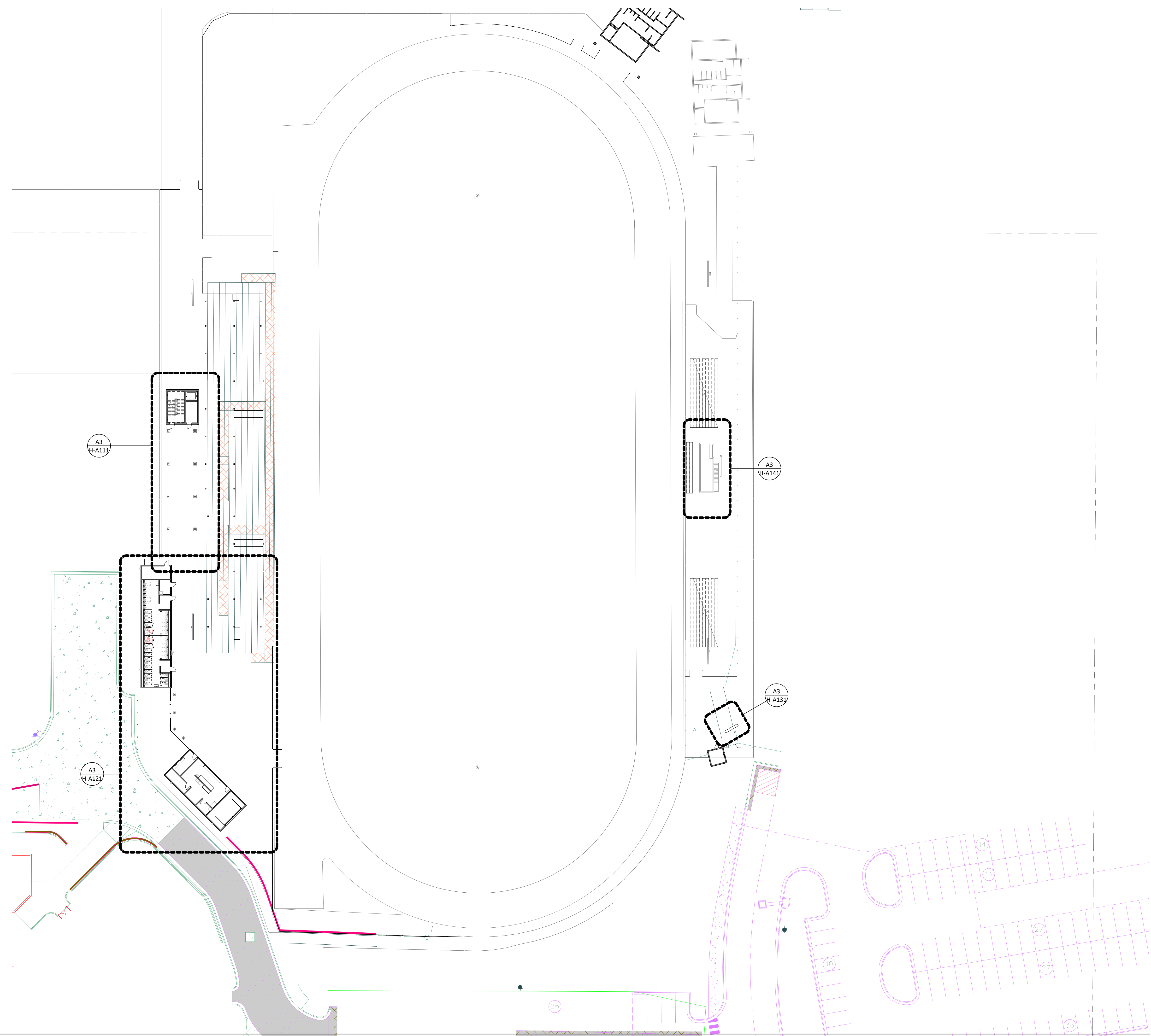
owner:
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Lee's Summit, MO 64086

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Overall Floor Plan
H-A101

BID SET

Overall Floor Plan **A3**
1" = 30'-0"

**Lee's Summit R7 District
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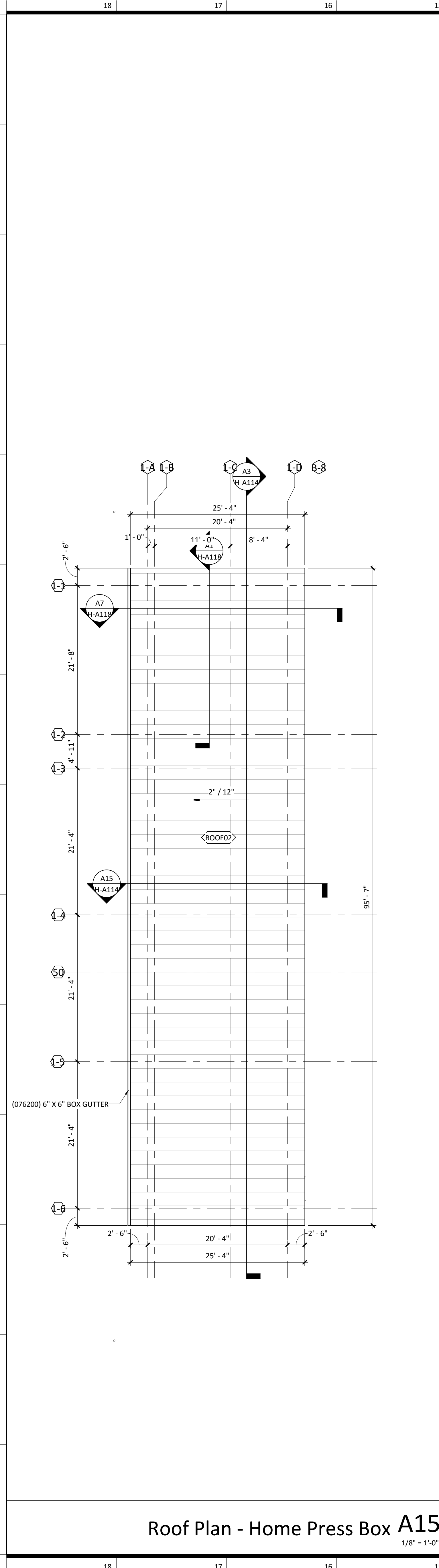
mechanical/electrical engineer:
Henderson Engineers
8345 Lenexa Drive | Suite 300
Lenexa, KS 66214
816.742.5000

General Notes (Floor Plans):

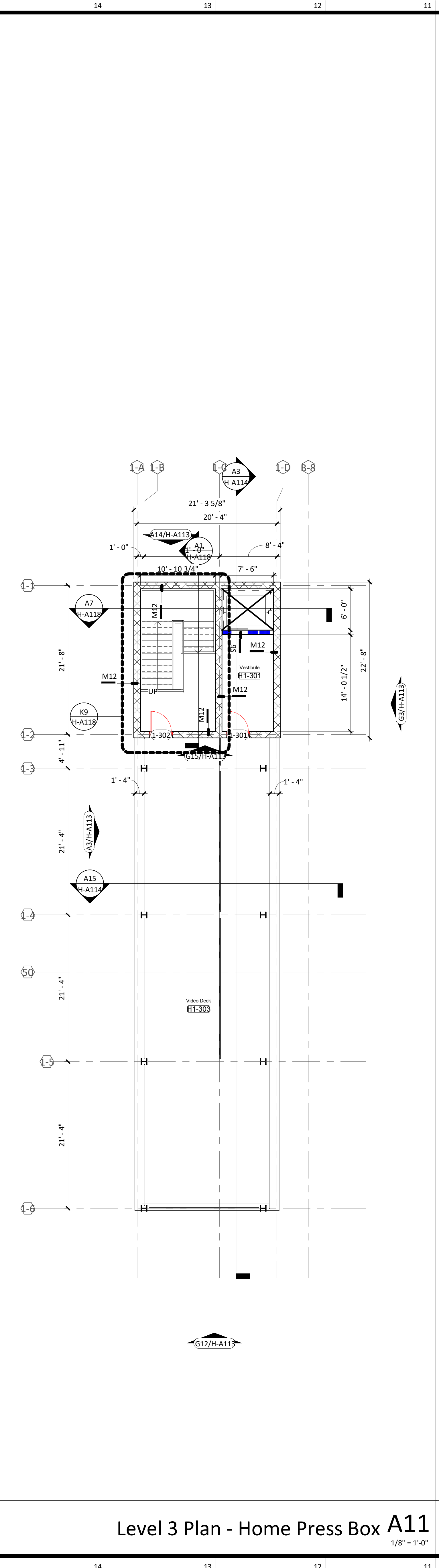
- ALL WALL TYPES TO BE M6 UNLESS OTHERWISE NOTED.
- ALL WALL DIMENSIONS ARE TO FACE OF WALL UNLESS OTHERWISE NOTED.
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- DOORS IN MASONRY WALLS ARE LOCATED IN ROUGH OPENINGS DIMENSIONED ON SHEET.
- SEE GENERAL ACCESSIBILITY SHEET FOR HEIGHTS AND LOCATIONS OF TOILET ACCESSORIES NOT SHOWN ON ELSEWHERE.
- CONTRACTOR TO FIELD VERIFY ALL MEASUREMENTS AND CONDITIONS NEW AND EXISTING. NOTIFY THE ARCHITECT/OWNER'S REPRESENTATIVE OF ANY DISCREPANCIES.
- ENLARGED PLANS MAY BE ROTATED OR MIRRORRED COORDINATE WITH MAIN FLOOR PLAN.
- CONTRACTOR TO PROVIDE 4'-0" HIGH PLYWOOD BACKER BOARD IN ALL MECHANICAL AND ELECTRICAL ROOMS MOUNTED 3'-6" A.F.F. FOR PERIMETER OF ROOM.

General Notes: (Roof Plan)

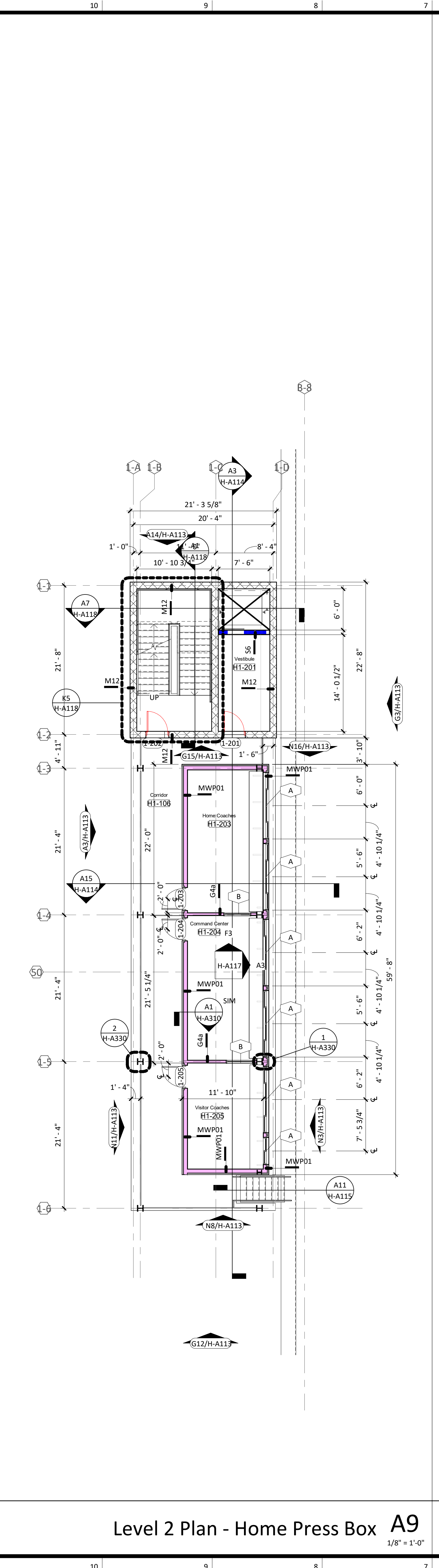
- REFER TO EXTERIOR ENCLOSURE TYPES FOR ROOF DETAILS.
- MINIMUM SLOPES ON ROOF SHALL BE 1/4" PER FOOT IN DIRECTION OF DRAINS OR ROOF EDGE.
- ELEVATION ABBREVIATIONS AS FOLLOWS: **BOD** = BOTTOM OF DECK, **TOS** = TOP OF STEEL, **TOP** = TOP OF PARAPET.
- OBJECT ABBREVIATIONS AS FOLLOWS: **RD** = ROOF DRAIN, **RTU** = ROOFTOP UNIT, **RH** = ROOF HATCH.
- PROVIDE ALL ROOFING DETAILS BY MANUFACTURERS WARRANTED SYSTEMS.
- PROVIDE WALKWAY PADS AT ALL ROOF LADDERS AND AT ALL ROOFTOP EQUIPMENT WORKING AREAS.
- PROVIDE CRICKETS AT ALL ROOFTOP EQUIPMENT TO FACILITATE DRAINAGE.



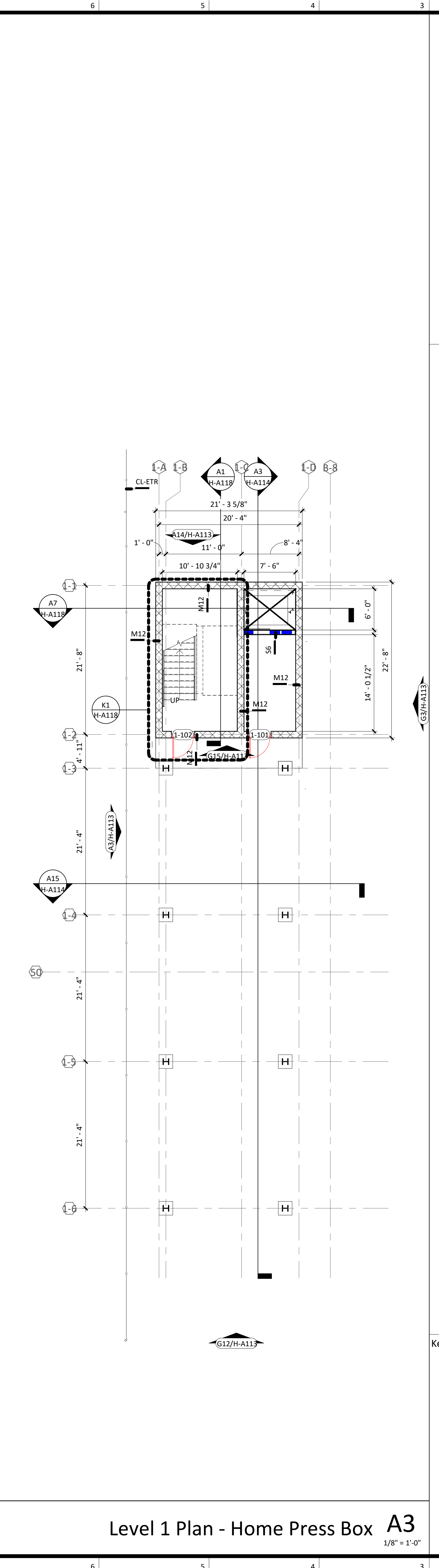
Roof Plan - Home Press Box A15
1/8" = 1'-0"



Level 3 Plan - Home Press Box A11
1/8" = 1'-0"

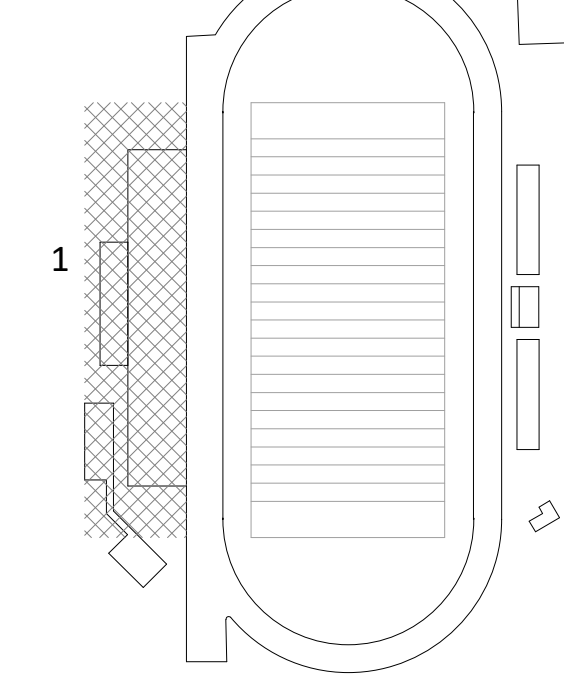


Level 2 Plan - Home Press Box A9
1/8" = 1'-0"

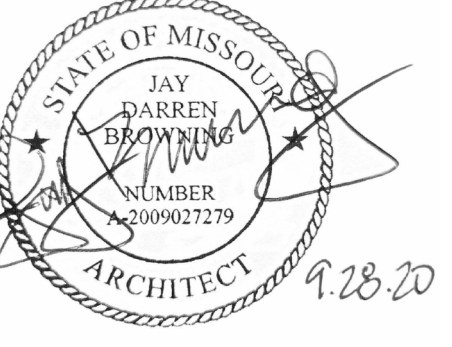


Level 1 Plan - Home Press Box A3
1/8" = 1'-0"

Key Plan:



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Number	DESCRIPTION	DATE

PROJECT NO: 0119-0101
DATE: September 28, 2020

**Home Press Box -
Floor/Roof Plans**

H-A111

BID SET

General Notes (Reflected Ceiling Plans):

1. ALL CEILING AND SOFFIT HEIGHTS ARE GIVEN ABOVE FINISHED FLOOR ELEVATION (EL 0'-0").
2. GENERALLY ONLY CEILING MOUNTED FIXTURES ARE SHOWN ON THIS PLAN. COORDINATE WITH MEP PLANS FOR ADDITIONAL INFORMATION.
3. VERIFY LOCATIONS OF ALL CEILING ACCESS PANELS WITH MEP DRAWINGS. COORDINATE LOCATIONS OF PANELS WITH ARCHITECT PRIOR TO INSTALLATION. ACCESS PANEL FIRE RATINGS MUST MATCH CEILING ASSEMBLY FIRE RATINGS.
4. LIGHTING FIXTURES TO BE CENTERED AND SPACED EQUALLY UNLESS NOTED OTHERWISE.
5. LIGHT FIXTURES ARE SHOWN FOR DIMENSIONAL PURPOSES ONLY COORDINATE WITH ELECTRICAL DRAWINGS FOR FIXTURE DESIGNATIONS.
6. IF PROJECT INCLUDES FIRE RATED CEILINGS, LIGHT FIXTURES LOCATED IN RATED CEILING ASSEMBLIES ARE TO BE TENTED OR OTHERWISE RATED TO MATCH THE CEILING.

Lee's Summit R7 District
Athletics Facilities

Lee's Summit High School
400 SW Blue Parkway
Lee's Summit, MO 64063

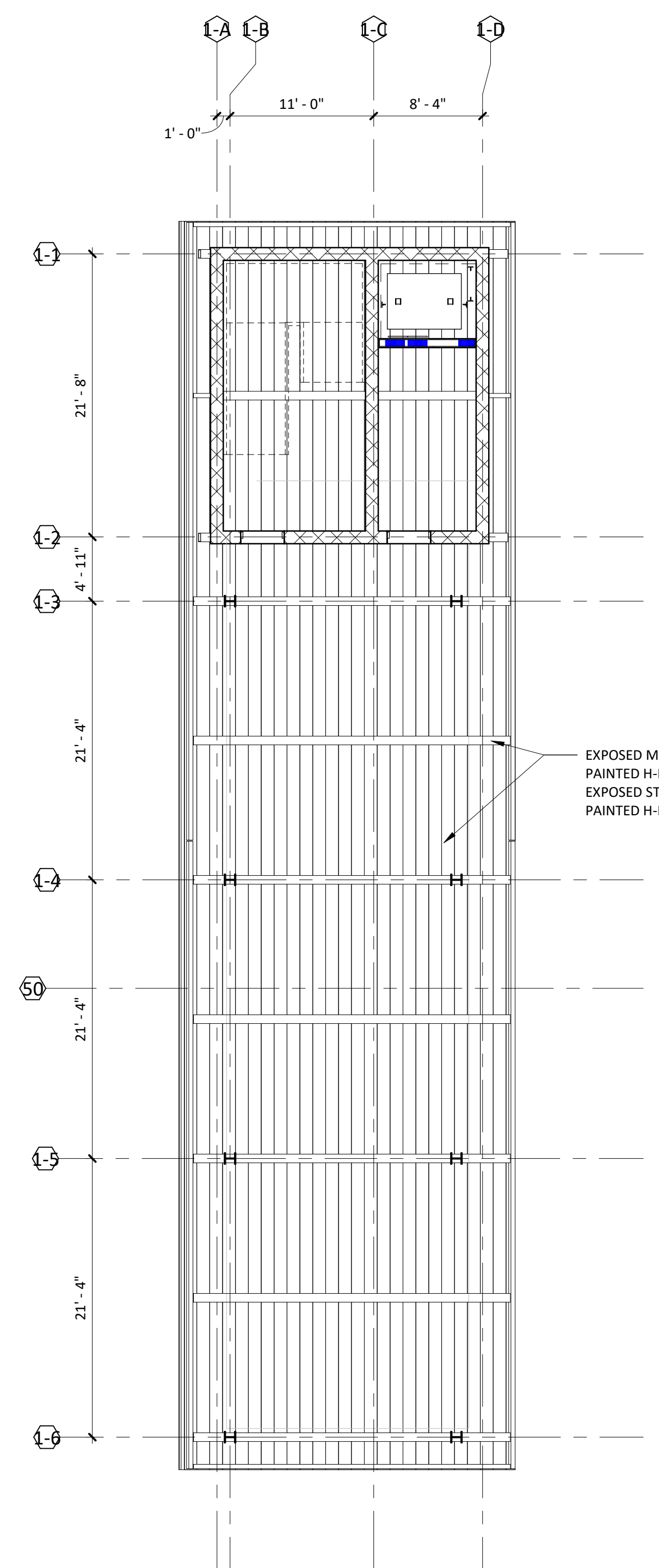
owner:
Lee's Summit R7 School District
301 NE Tudor Road
Lee's Summit, MO 64086

architect:
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4200 Pennsylvania Avenue
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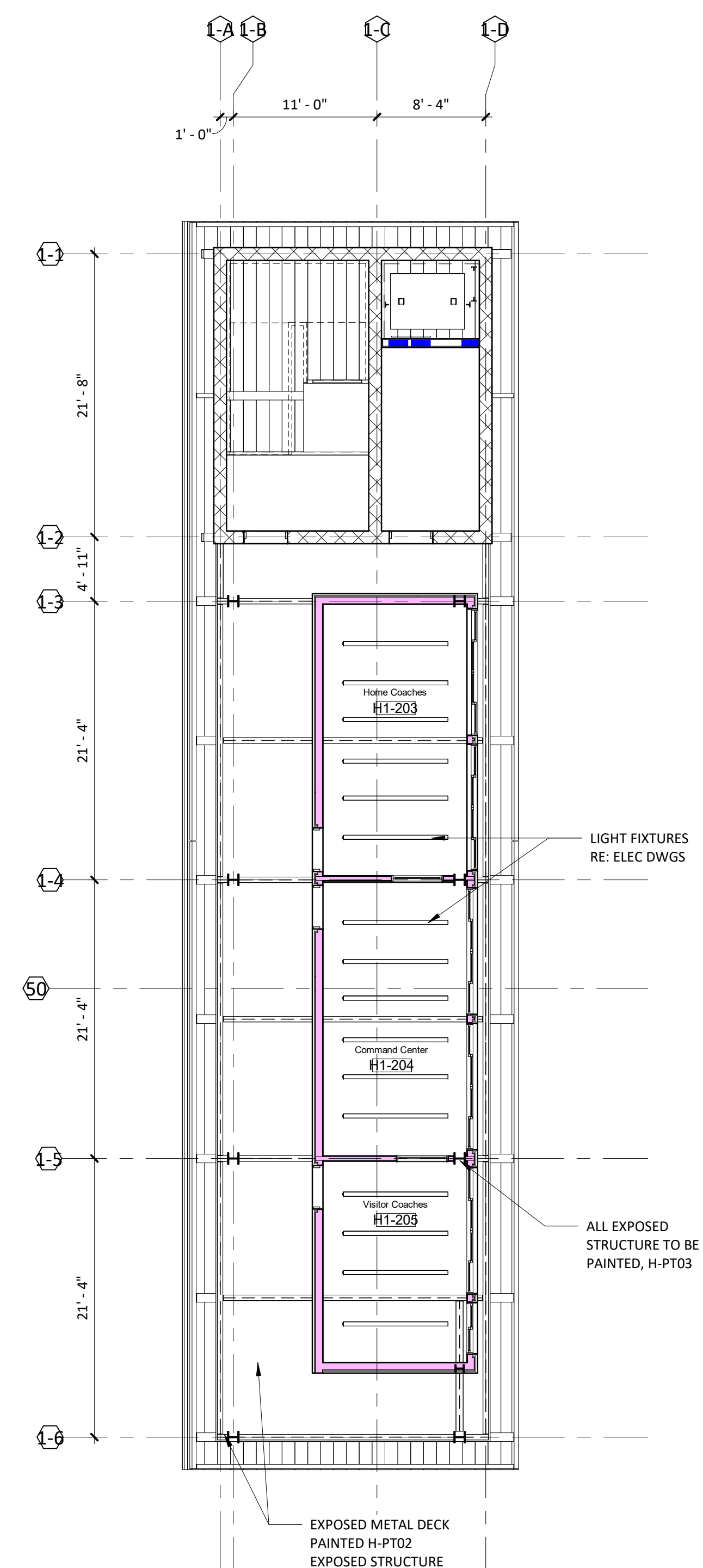
structural engineer:
Bob D. Campbell & Company, Inc.
4338 Belleview Avenue
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816.531.4144

civil engineer:
Kaw Valley Engineering
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913.485.0318

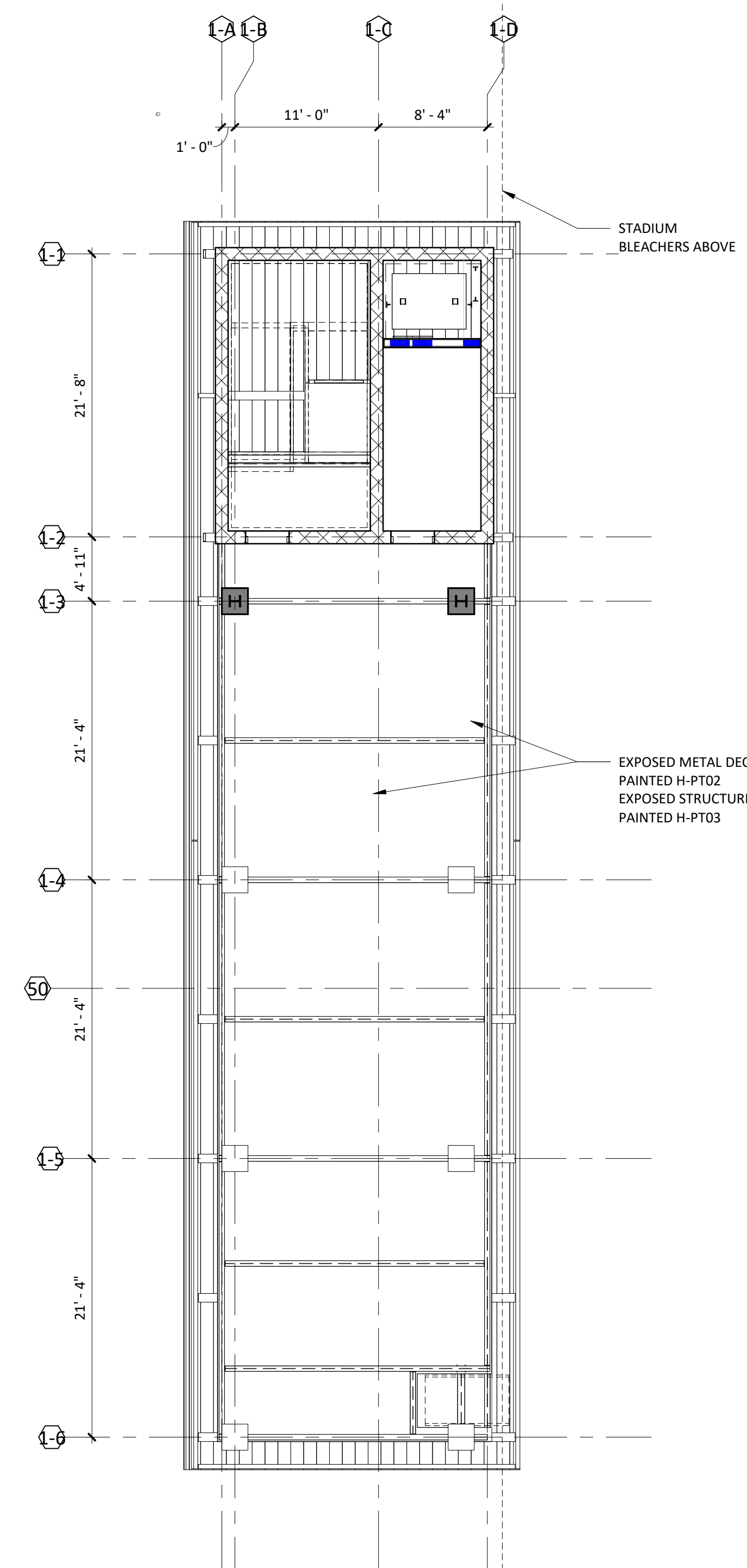
mechanical/electrical engineer:
Henderson Engineers
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816.742.5000



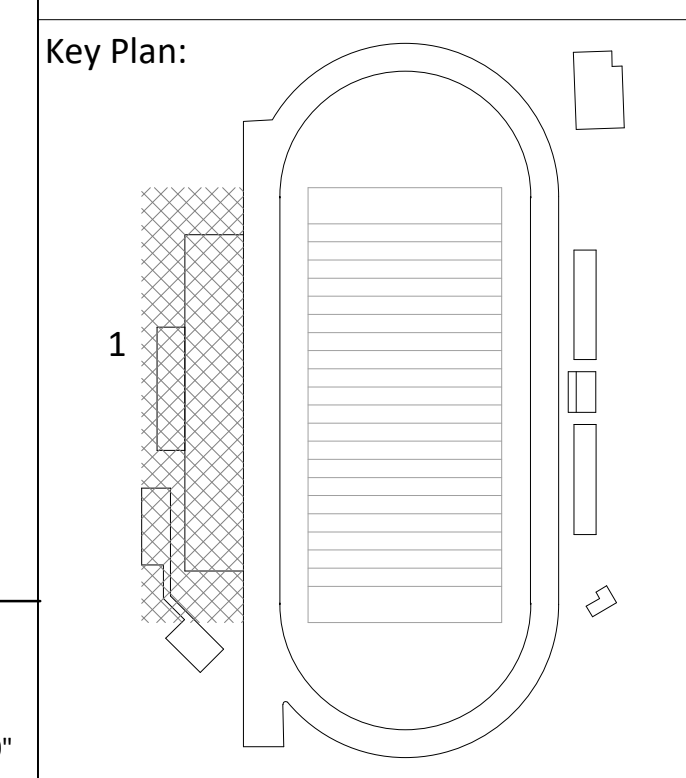
Level 3 RCP - Home Press Box **A11**
1/8" = 1'-0"



Level 2 RCP - Home Press Box **A7**
1/8" = 1'-0"



Level 1 RCP - Home Press Box **A3**
1/8" = 1'-0"



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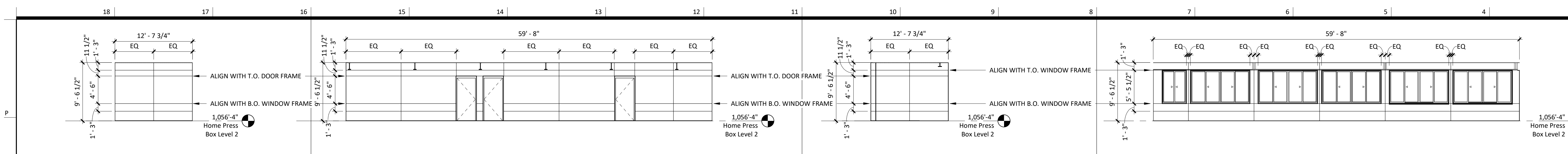
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DATE: September 28, 2020

Home Press Box -
Reflected Ceiling Plans

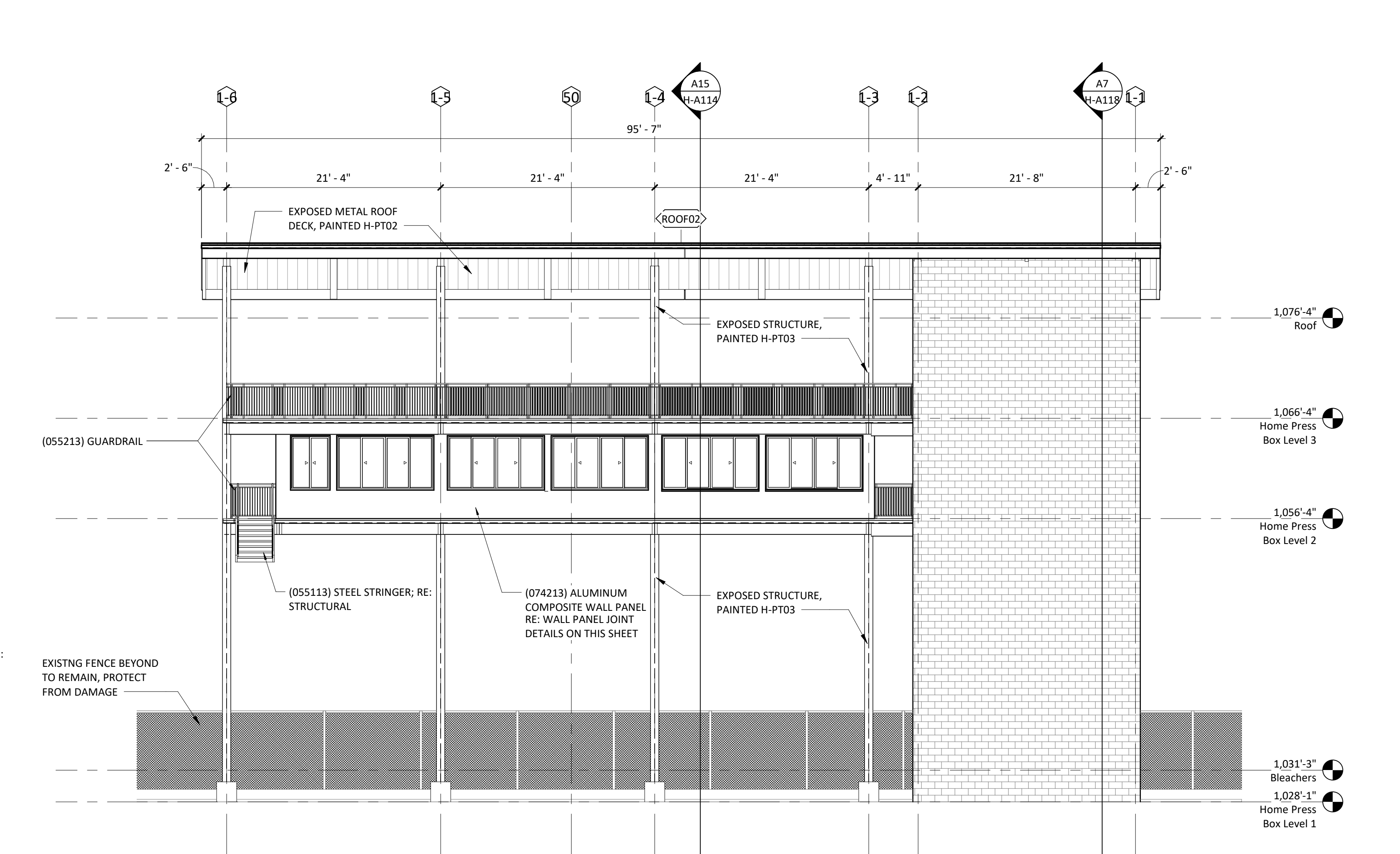
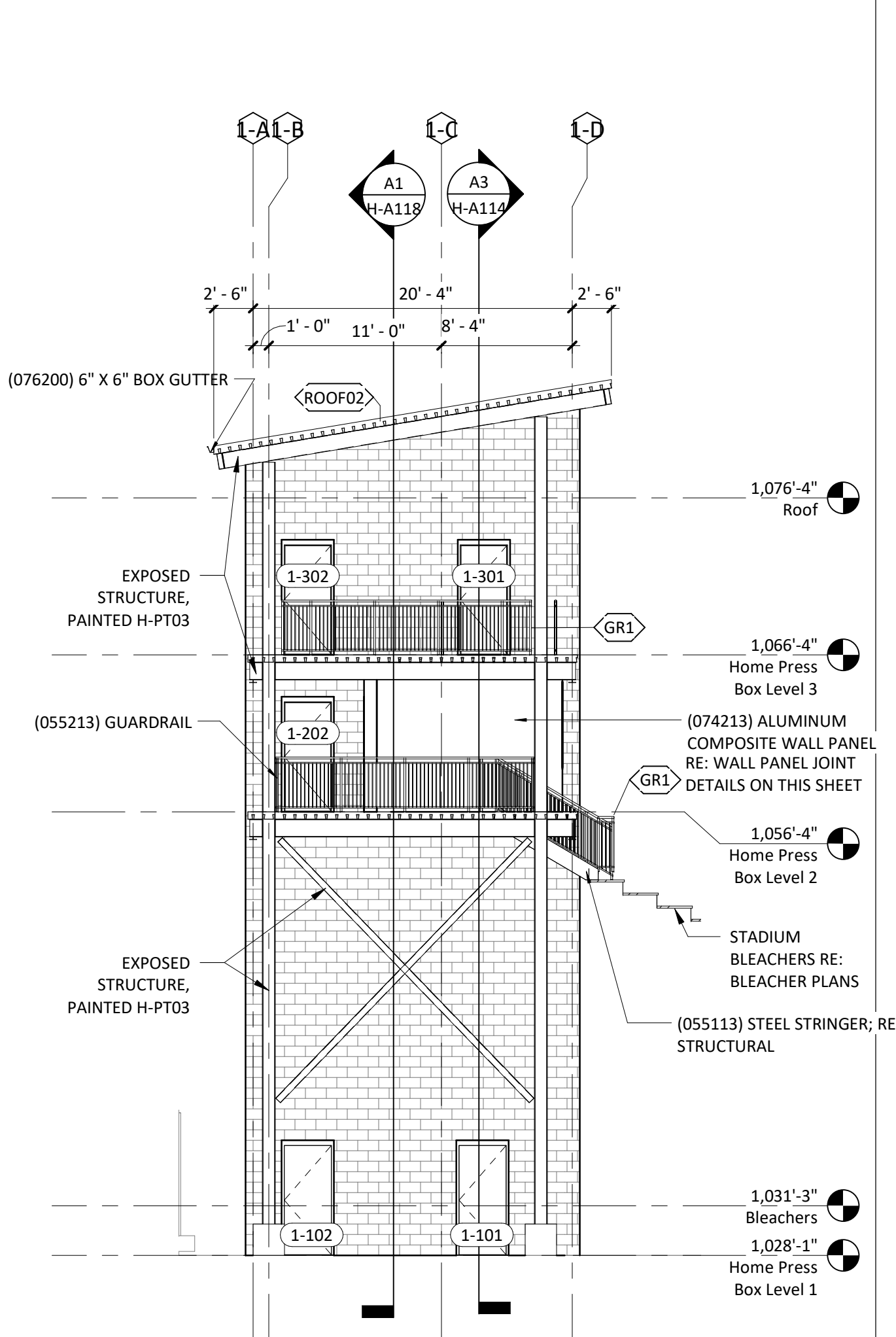
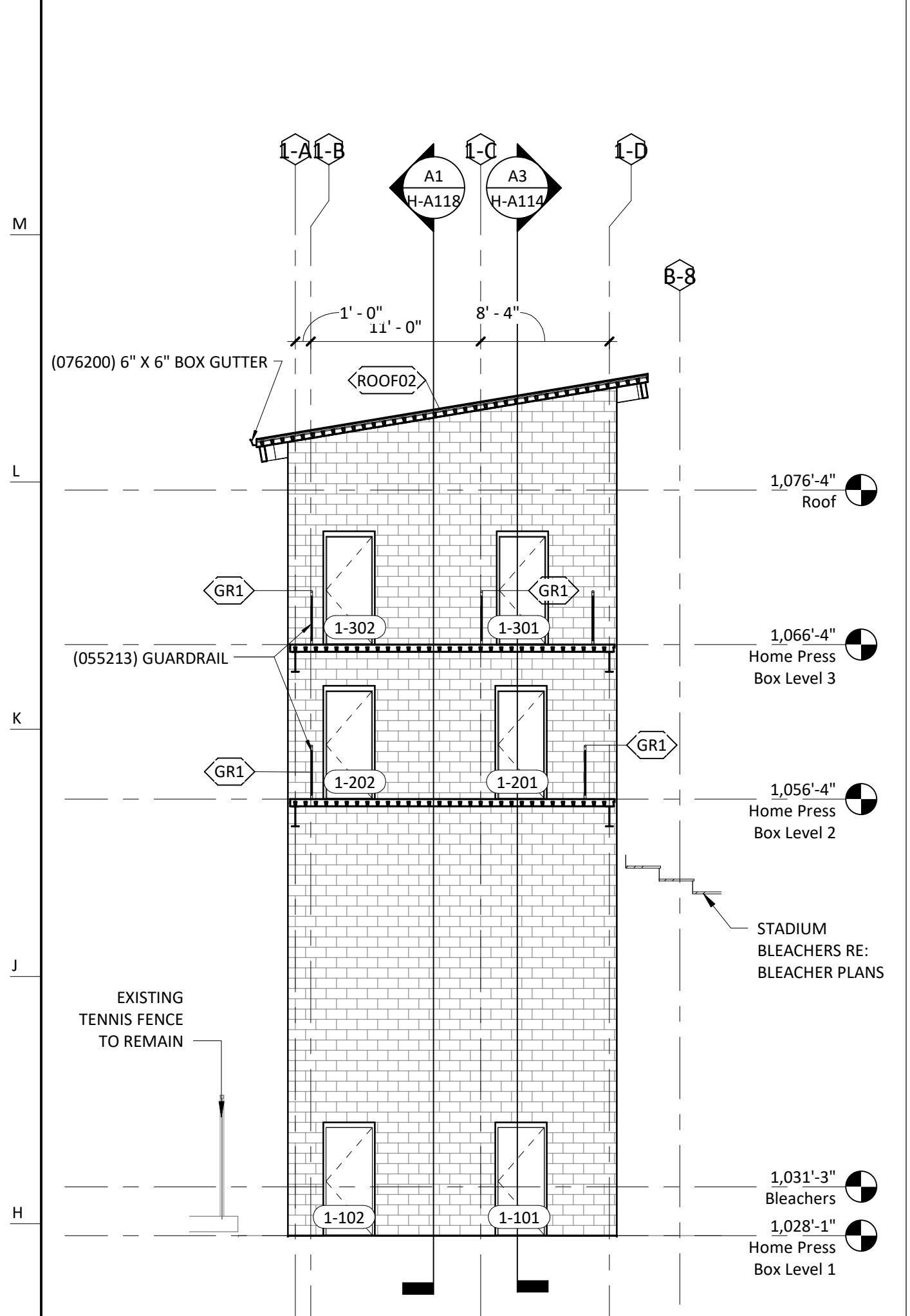
H-A112

BID SET

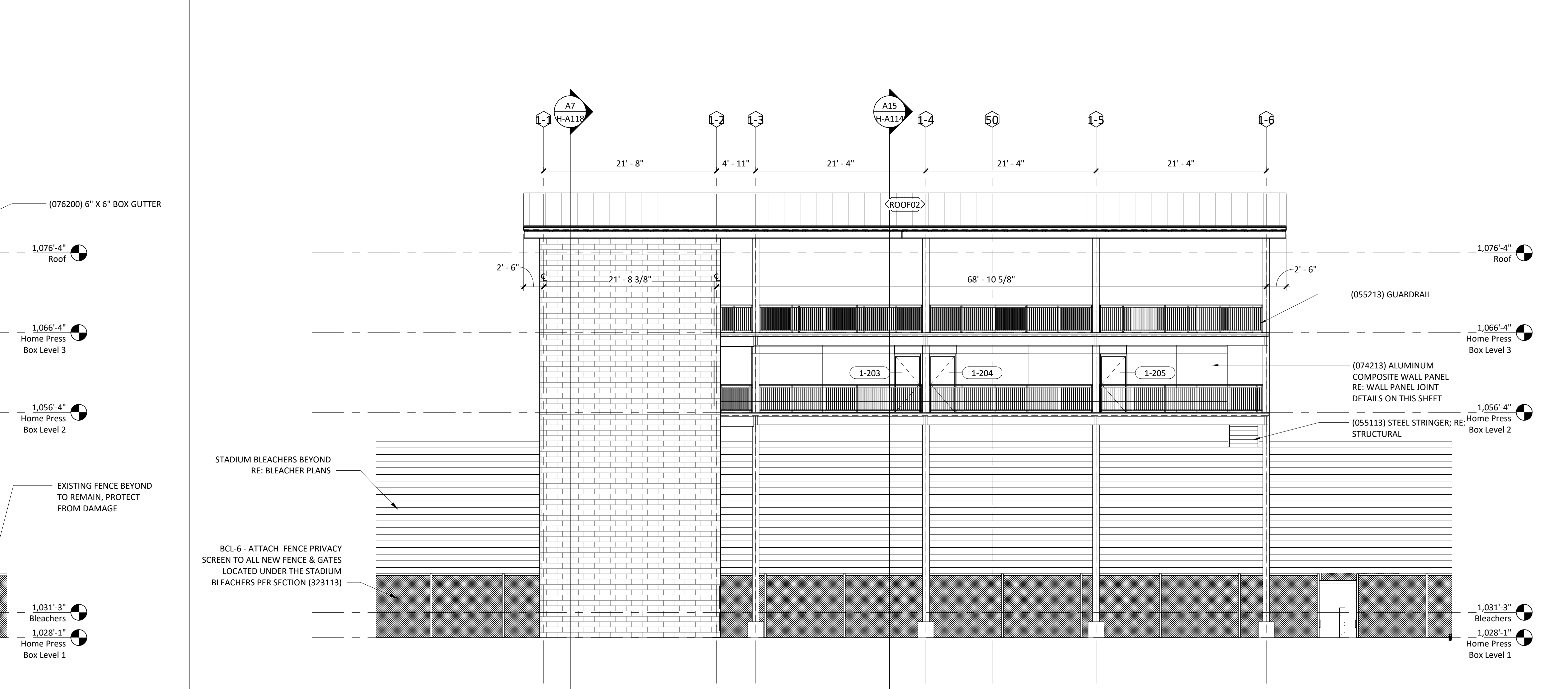
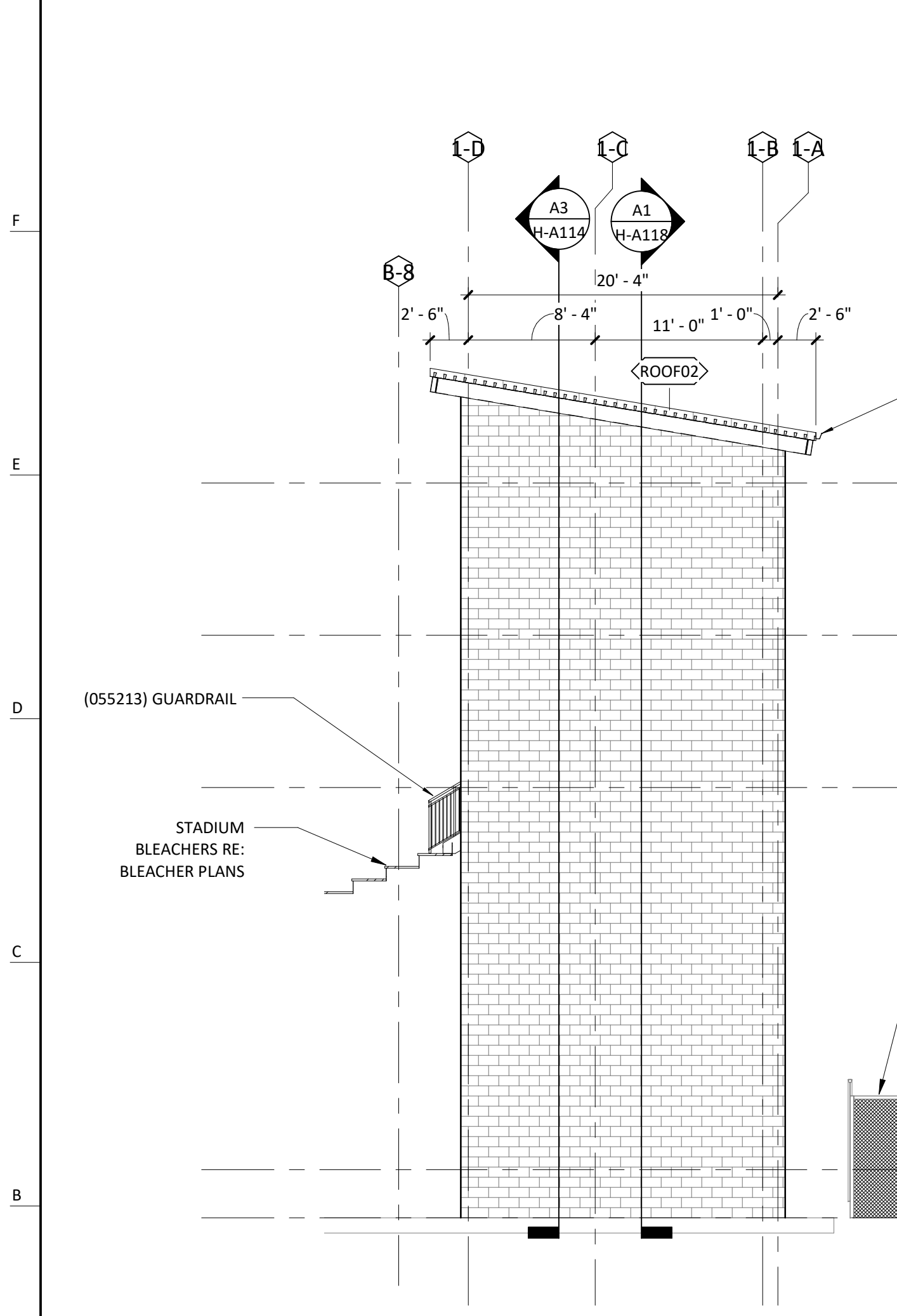


General Notes (Exterior Elevations):
 1. MATERIALS AND FINISHES INDICATED APPLY TO ALL SIMILAR ELEMENTS.
 2. COORDINATE EXTERIOR LIGHTING FIXTURE TYPES AND LOCATIONS WITH ELECTRICAL DRAWINGS.

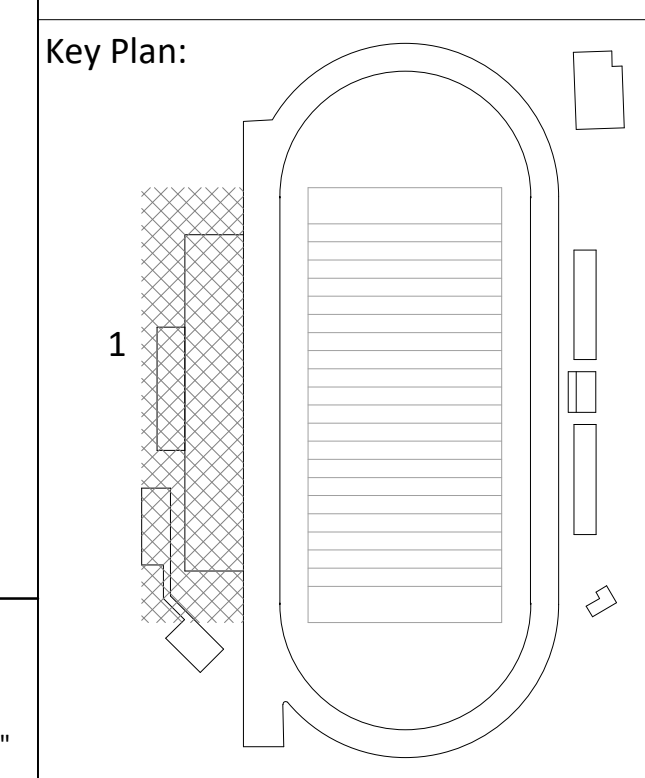
North Elevation Press Box - N16 Wall Panel Joint Detail 1/8" = 1'-0"
West Elevation Press Box - Wall Panel Joint Detail N11 1/8" = 1'-0"
South Elevation Press Box - N8 Wall Panel Joint Detail 1/8" = 1'-0"
East Elevation Press Box - Wall Panel Joint Detail N3 1/8" = 1'-0"



South Elevation - Home Press Box Core G15 1/8" = 1'-0"
South Elevation - Home Press Box G12 1/8" = 1'-0"
East Elevation - Home Press Box G3 1/8" = 1'-0"



North Elevation - Home Press Box A14 1/8" = 1'-0"
West Elevation - Home Press Box A3 1/8" = 1'-0"



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Number	DESCRIPTION	DATE

PROJECT NO: 0119-0101
 DATE: September 28, 2020

Home Press Box - Exterior Elevations
H-A113
 BID SET

General Notes (Building Sections):
 1. BUILDING SECTIONS SHOWN FOR ORIENTATION AND CONTEXT. REFER TO WALL SECTIONS FOR CONSTRUCTION DETAILING AND REFERENCES.

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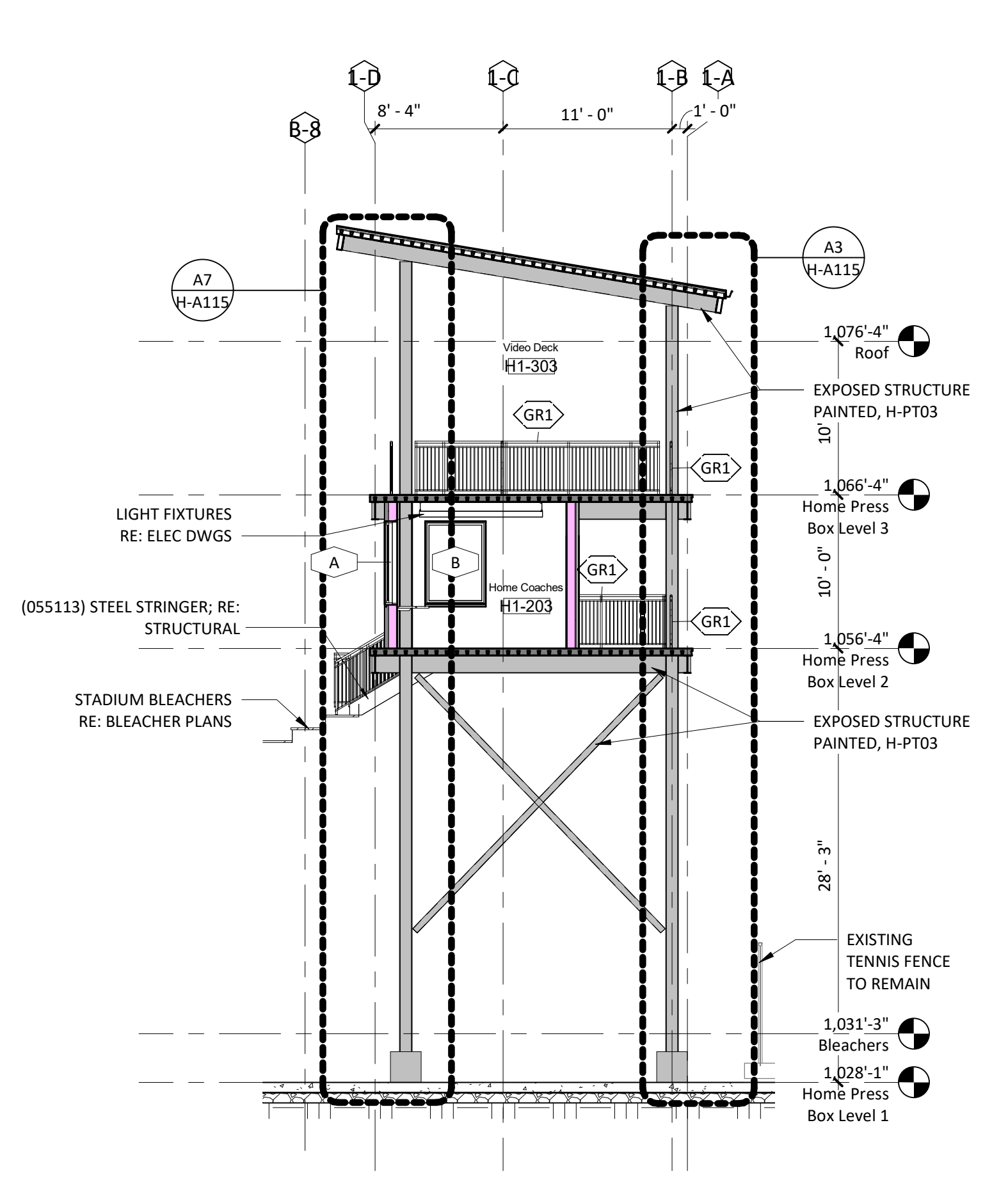
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Number	DESCRIPTION	DATE

PROJECT NO: 0119-0101
 DATE: September 28, 2020

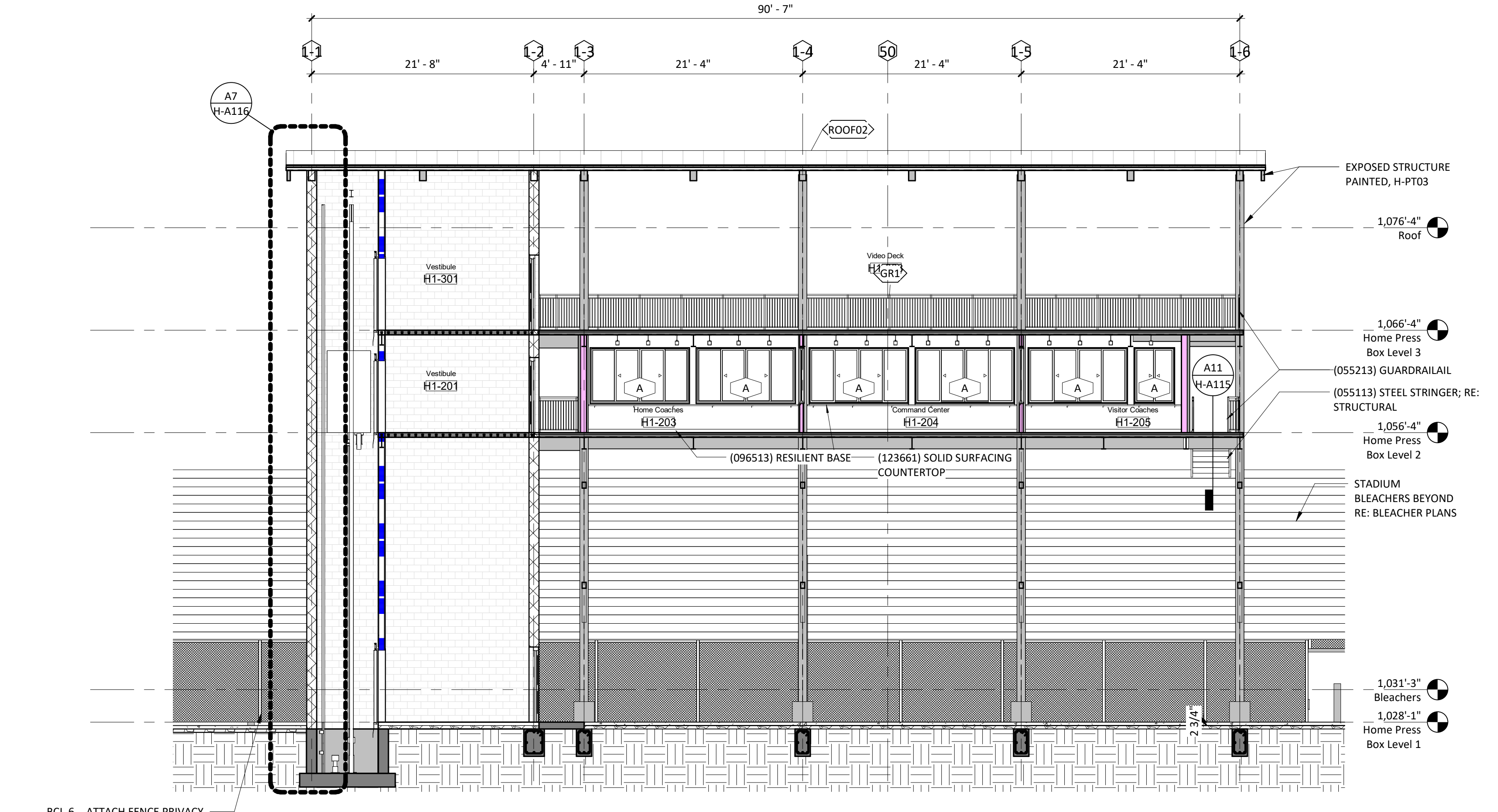
**Home Press Box -
 Building Sections**

H-A114

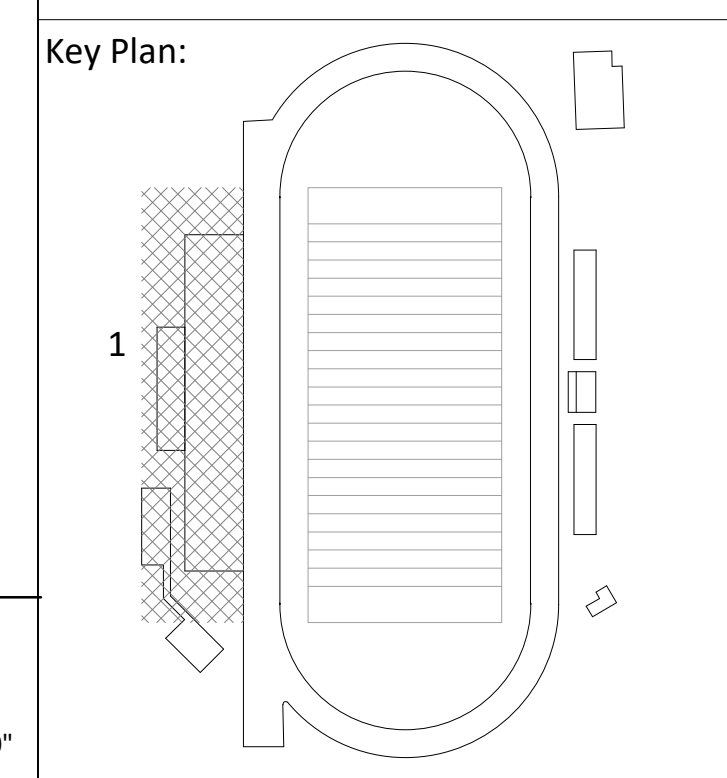
BID SET



E/W Building Section - Home Press Box @ Video Deck **A15**
 1/8" = 1'-0"



N/S Building Section @ Home Press Box **A3**
 1/8" = 1'-0"



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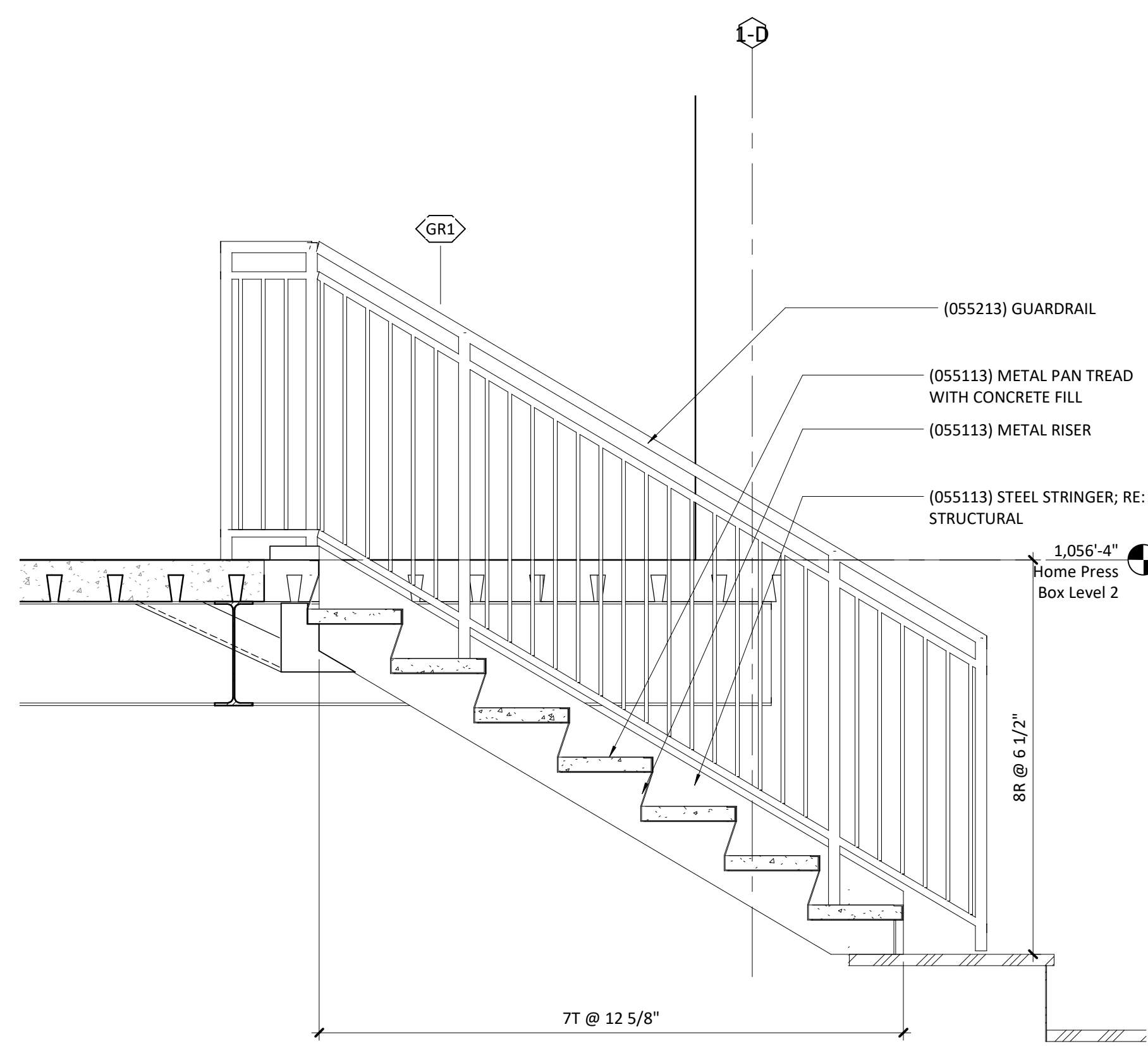
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DATE: September 28, 2020

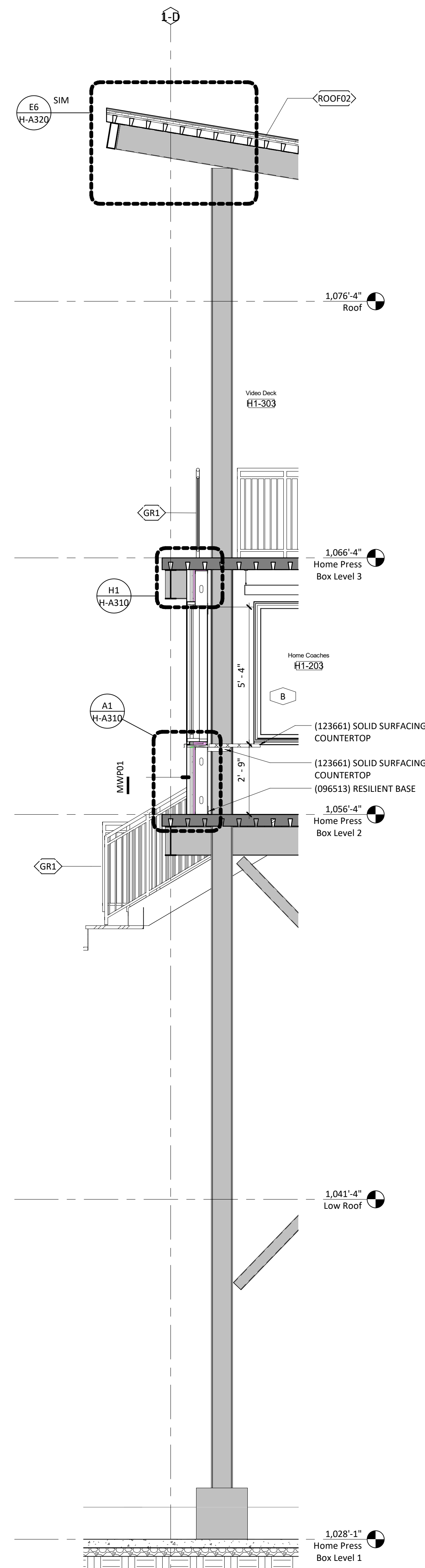
Home Press Box - Wall Sections

H-A115

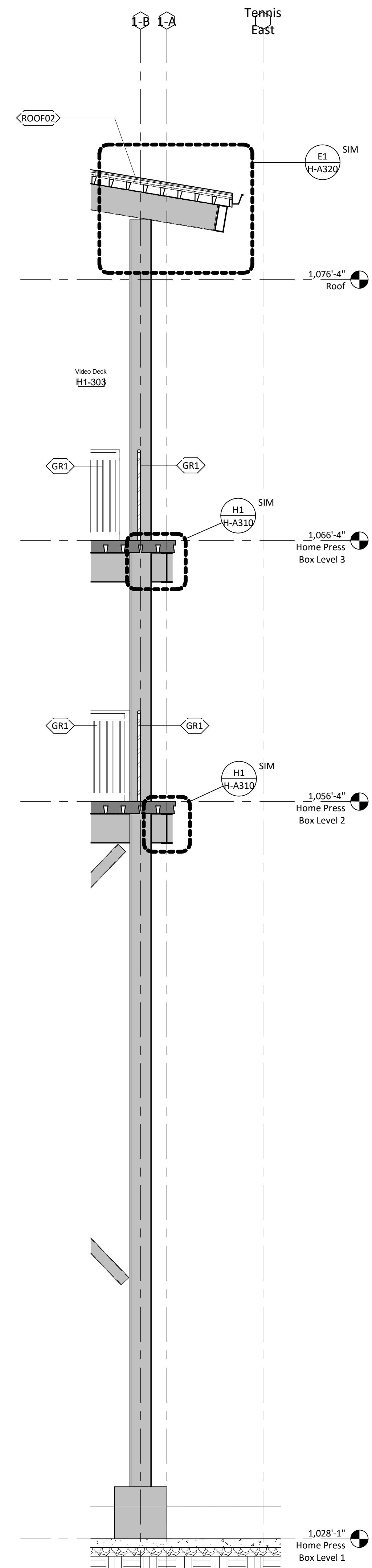
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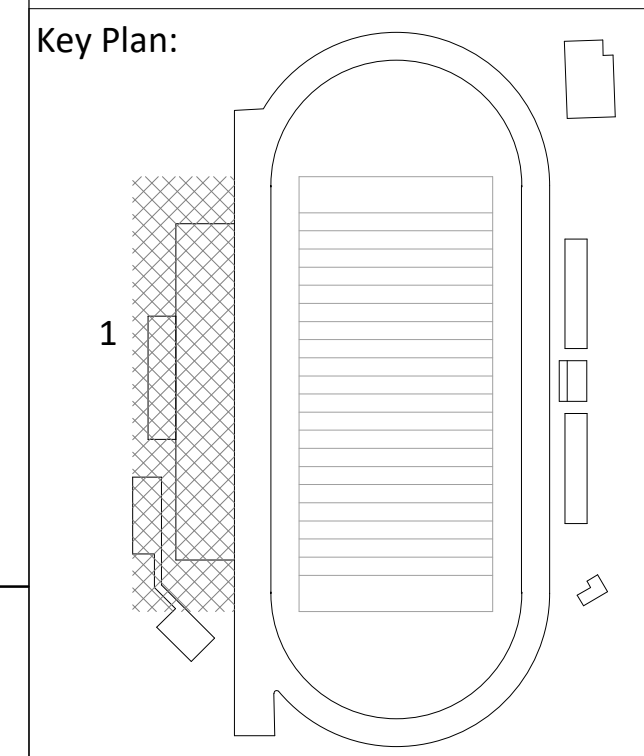
Detail Section - Bleacher Stair A11
3/4" = 1'-0"



Wall Section - East Side @ Press Box A7
3/8" = 1'-0"



Wall Section - West Side @ Press Box A3
3/8" = 1'-0"



**Lee's Summit R7 District
Athletics Facilities**

Lee's Summit High School
400 SW Blue Parkway
Lee's Summit, MO 64063

owner:
Lee's Summit R-7 School District
301 NE Tudor Road
Lee's Summit, MO 64086

architect:
Gould Evans
4200 Pennsylvania Avenue
Kansas City, MO 64111
816.931.6655 voice
www.gould-evans.com

structural engineer:
Bob D. Campbell & Company, Inc.
4338 Bellevue Avenue
Kansas City, MO 64111
816.531.4144

civil engineer:
Kaw Valley Engineering
14700 West 114th Terrace
Lenexa, KS 66215
913.485.0318

mechanical/electrical engineer:
Henderson Engineers
8345 Lenexa Drive | Suite 300
Lenexa, KS 66214
816.742.5000

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Architect License No. A-2009027279

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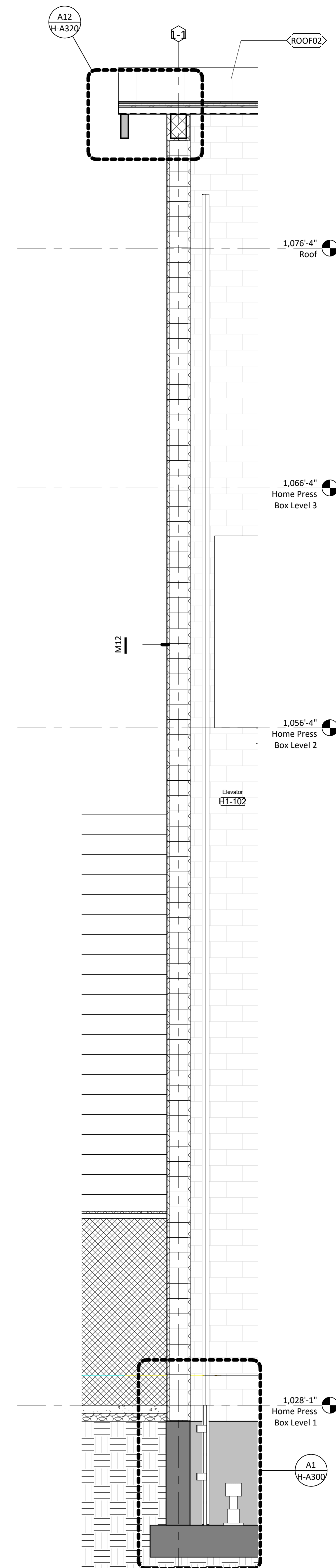
Number	DESCRIPTION	DATE

PROJECT NO: 0119-0101
DATE: September 28, 2020

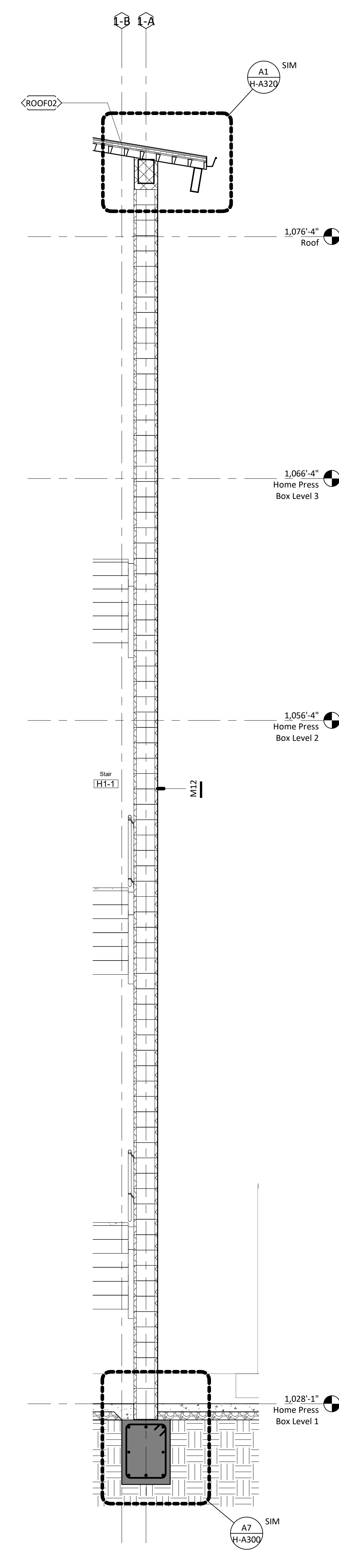
Home Press Box - Wall
Sections

H-A116

BID SET

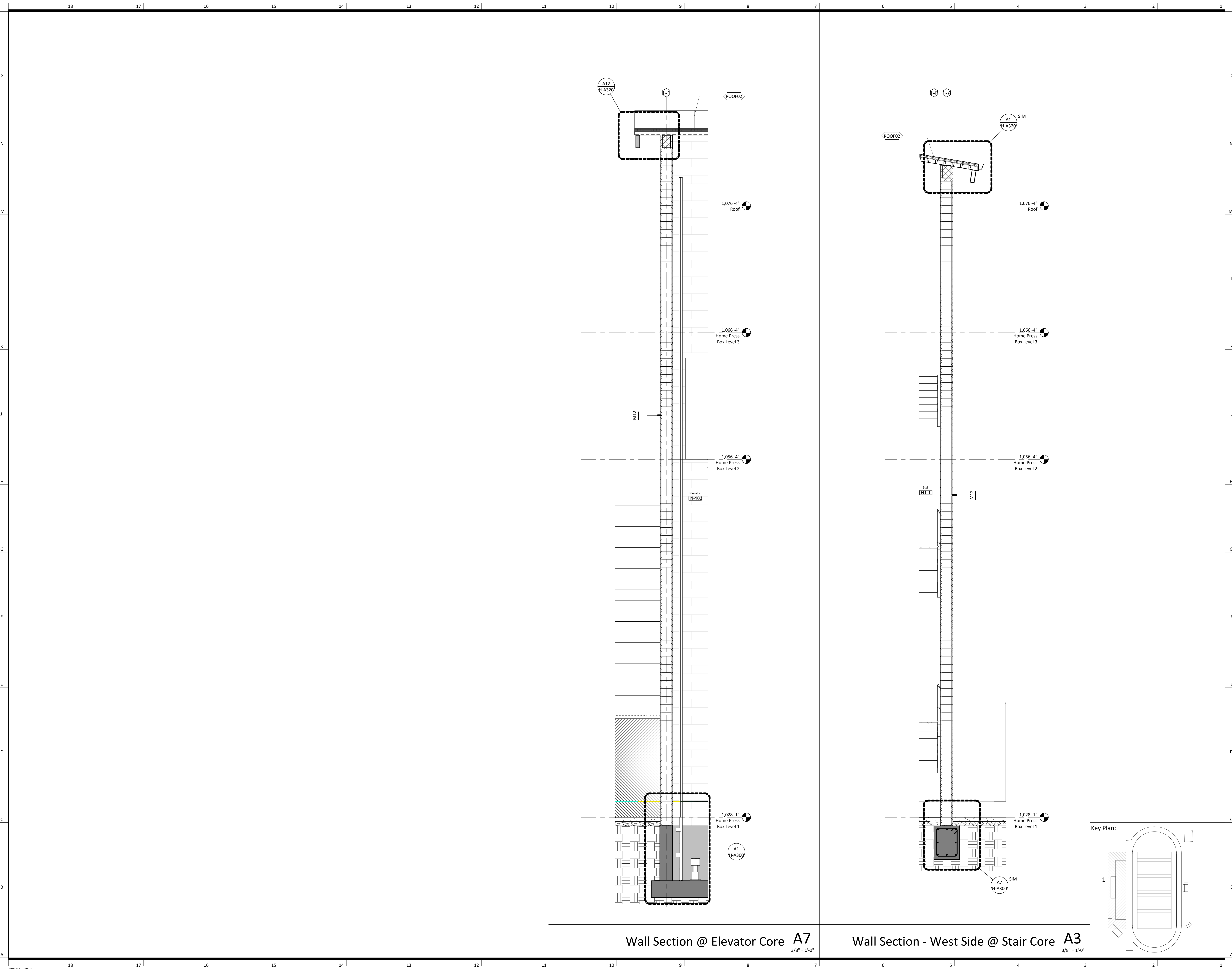
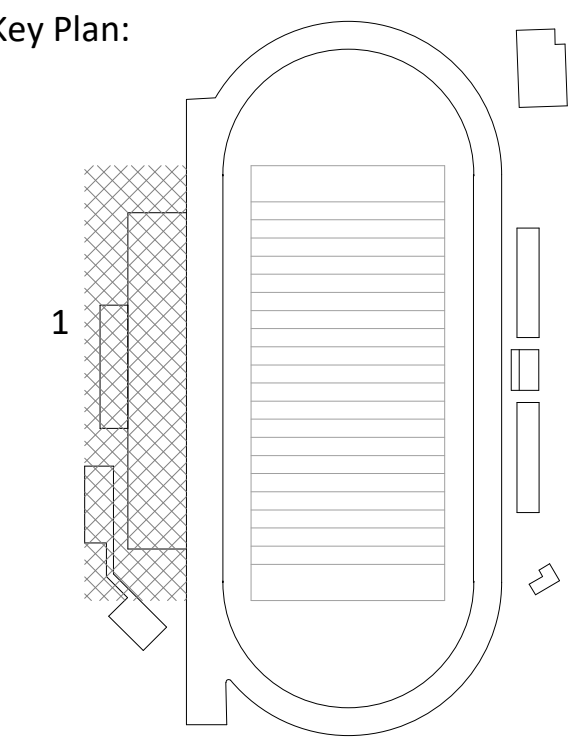


Wall Section @ Elevator Core **A7**
3/8" = 1'-0"



Wall Section - West Side @ Stair Core **A3**
3/8" = 1'-0"

Key Plan:



General Notes (Interior Elevations):

- REFER TO FINISH LEGEND/SCHEDULE FOR COMPLETE LISTING OF FINISHES
- REFER TO PROJECT STANDARDS FOR INSTALLATION INFORMATION FOR ACCESSORIES, TOILET FIXTURES, ETC.
- REFER TO PROJECT STANDARDS FOR DEVICES FOR TYPICAL INSTALLATION INFORMATION.
- AT GYP SOFFIT CONTROL JOINTS, CONTINUE CONTROL JOINT UP BOTH VERTICAL FACES OF SOFFIT.

Lee's Summit R7 District
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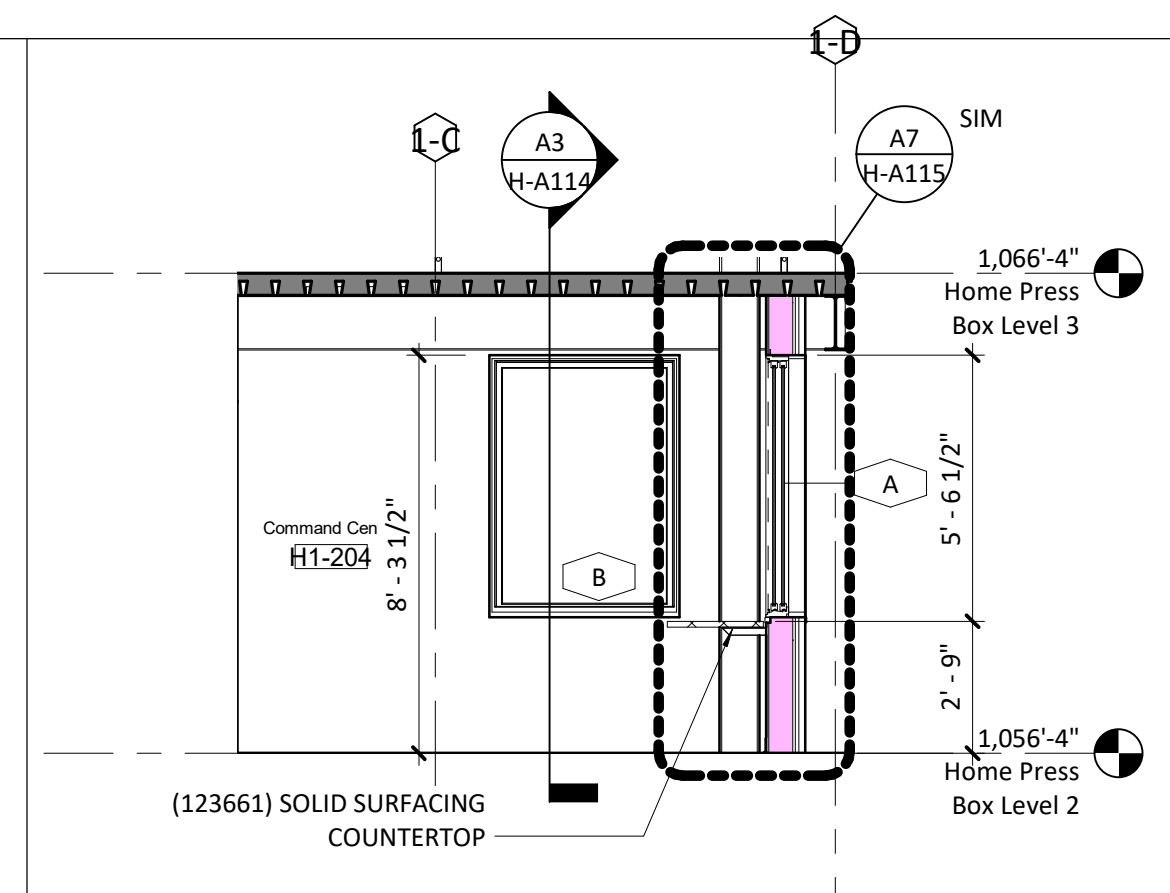
Number	DESCRIPTION	DATE
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PROJECT NO: 0119-0101
DATE: September 28, 2020

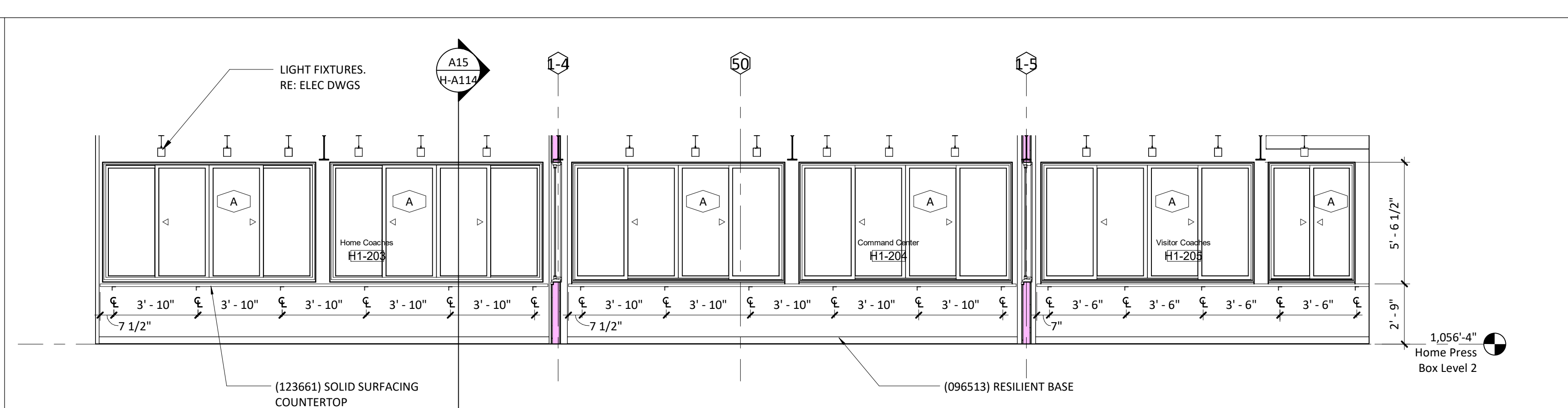
Home Press Box -
Interior Elevations

H-A117

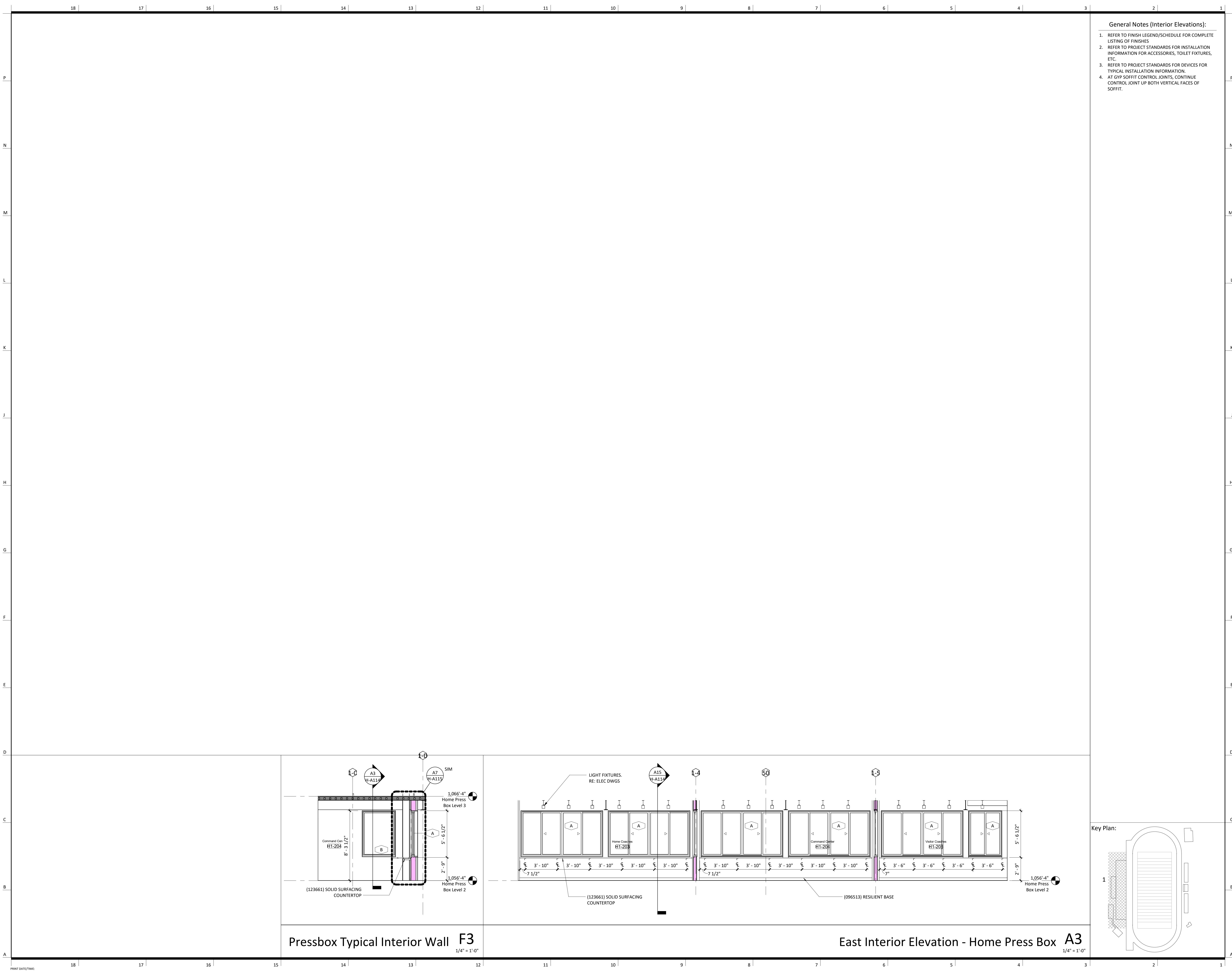
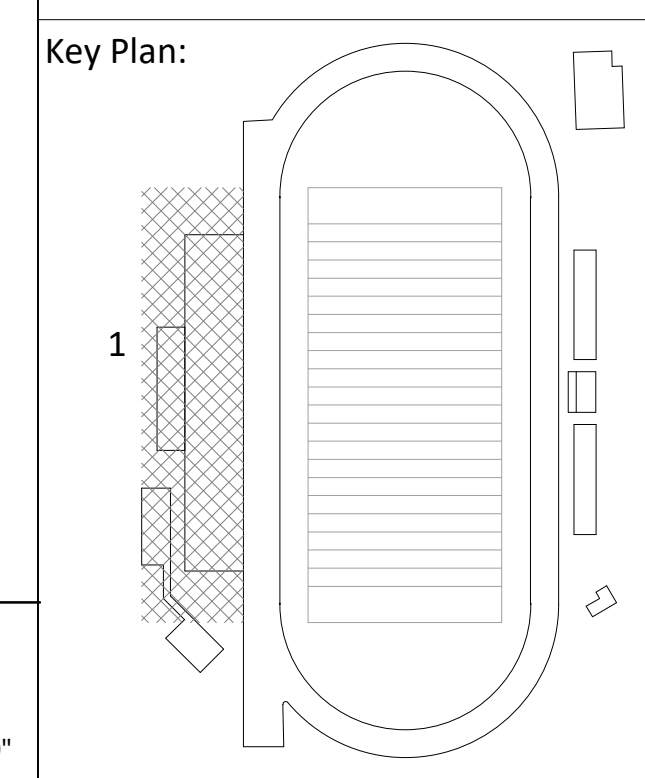
BID SET



Pressbox Typical Interior Wall F3
1/4" = 1'-0"



East Interior Elevation - Home Press Box A3
1/4" = 1'-0"



**Lee's Summit R7 District
Athletics Facilities**

Lee's Summit High School
400 SW Blue Parkway
Lee's Summit, MO 64063

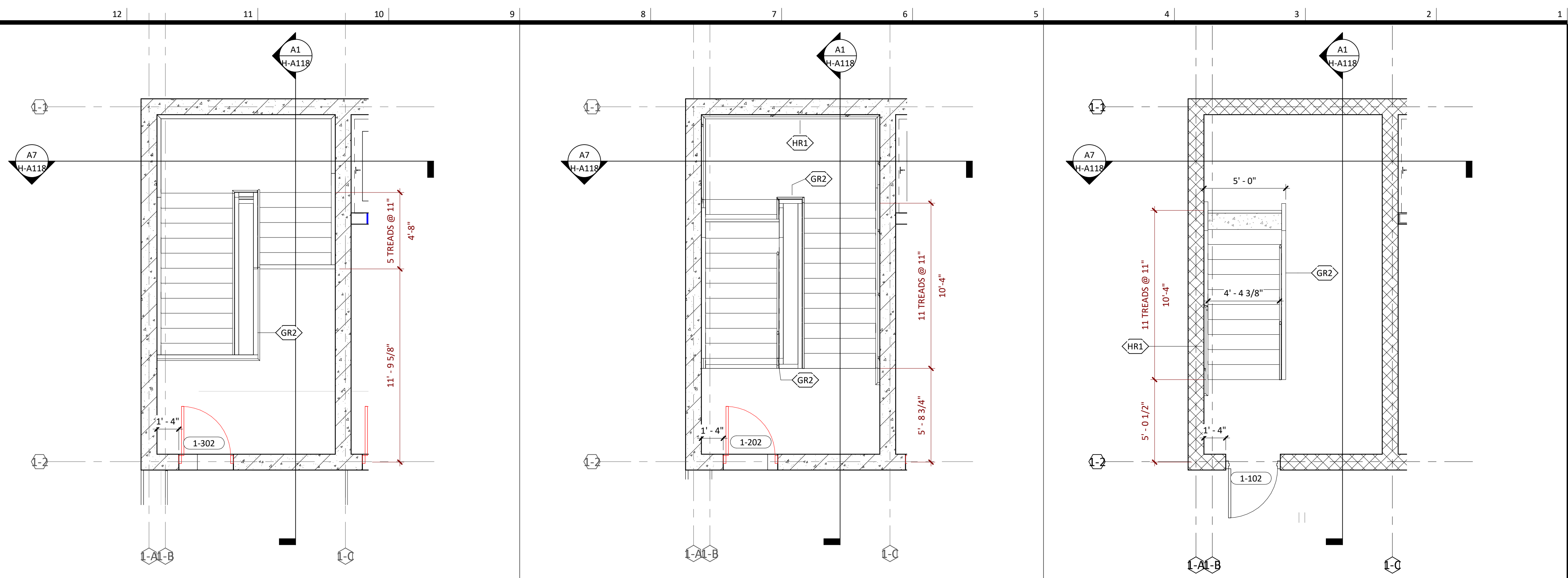
owner:
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architect:
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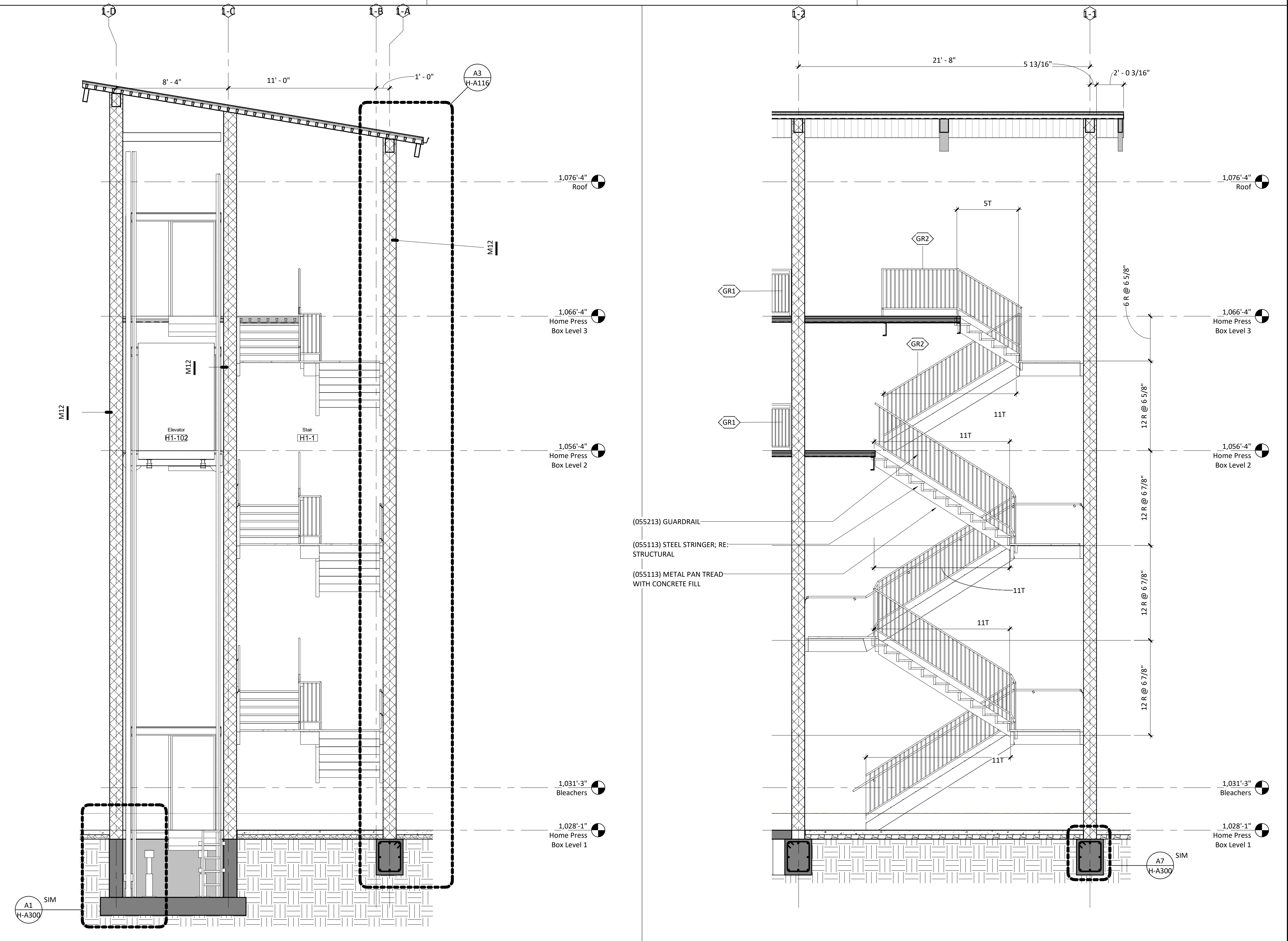
mechanical/electrical engineer:
Henderson Engineers
8345 Lenexa Drive | Suite 300
Lenexa, KS 66214
816.742.5000



Level 3 Plan - Press Box - Stair **K9**
1/4" = 1'-0"

Level 2 Plan - Press Box - Stair **K5**
1/4" = 1'-0"

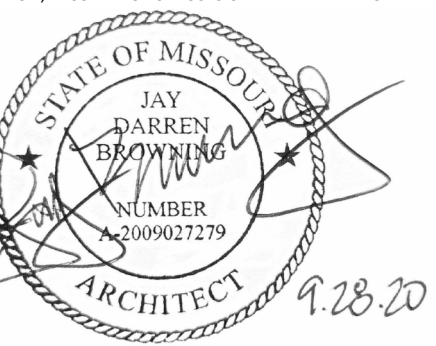
Level 1 Plan - Press Box - Stair **K1**
1/4" = 1'-0"



E/W Building Section @ Stair & Elevator Core **A7**
1/4" = 1'-0"

N/S Building Section @ Stair Core **A1**
1/4" = 1'-0"

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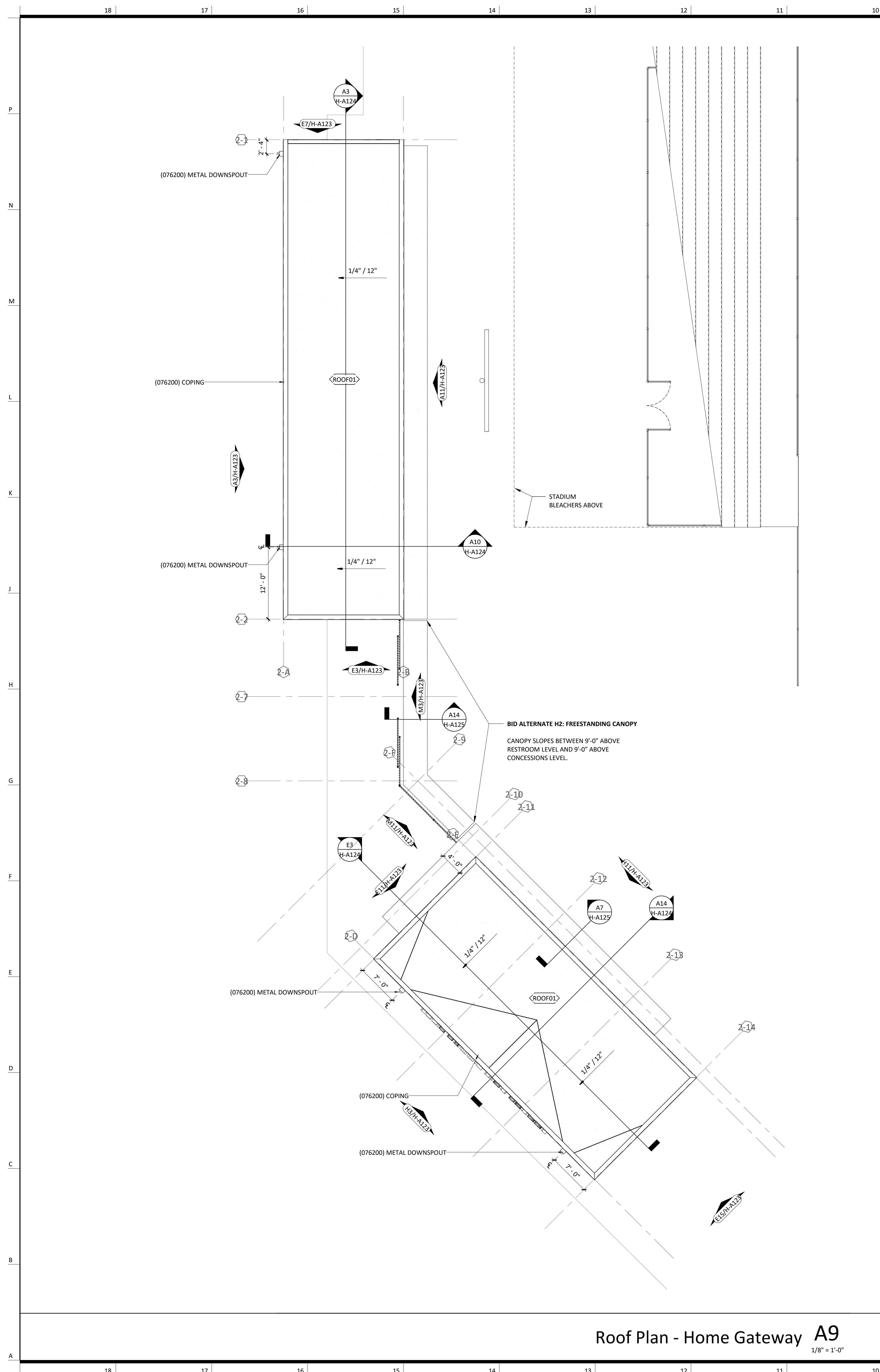
Number	DESCRIPTION	DATE

PROJECT NO: 0119-0101
DATE: September 28, 2020

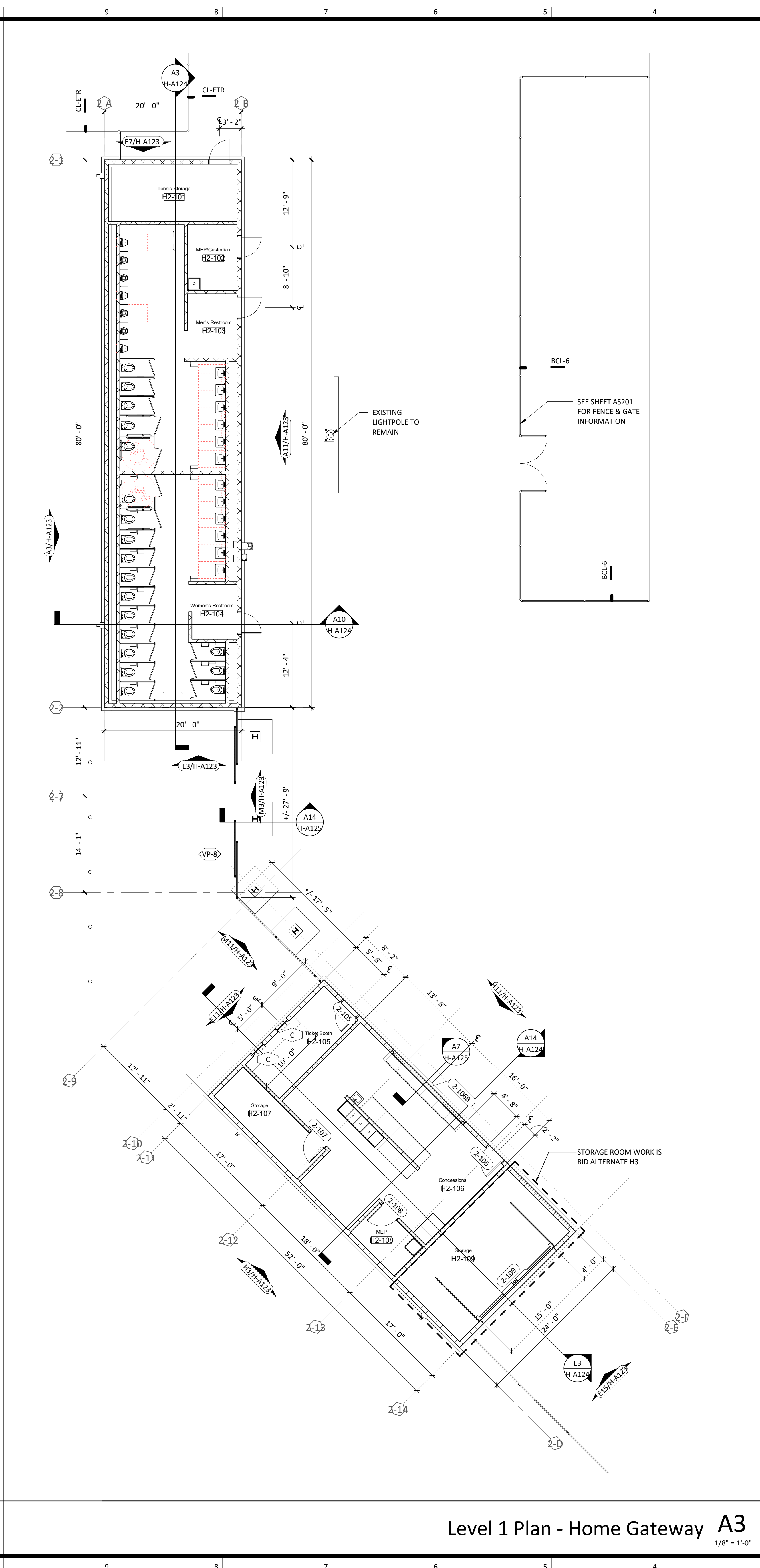
Home Press Box -
Vertical Circulation

H-A118

BID SET



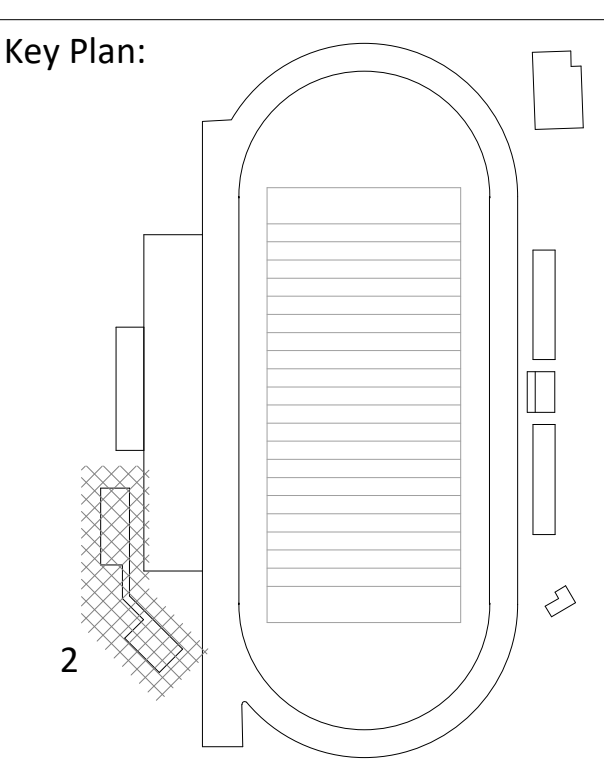
Roof Plan - Home Gateway **A9**
1/8" = 1'-0"



Level 1 Plan - Home Gateway **A3**
1/8" = 1'-0"

- General Notes (Floor Plans):**
- ALL WALL TYPES TO BE M6 UNLESS OTHERWISE NOTED.
 - ALL WALL DIMENSIONS ARE TO FACE OF WALL UNLESS OTHERWISE NOTED.
 - MASONRY WALLS ARE ALIGNED WITH THE INTERIOR FACE ON GRID LINES AND MASONRY DIMENSIONS ARE NOMINAL UNLESS OTHERWISE NOTED.
 - DOORS IN STUD WALLS NEAR PERPENDICULAR WALLS ARE LOCATED 4" OFF FACE OF PERPENDICULAR WALL UNLESS OTHERWISE NOTED.
 - DOORS IN MASONRY WALLS ARE LOCATED IN ROUGH OPENINGS DIMENSIONED ON SHEET.
 - SEE GENERAL ACCESSIBILITY SHEET FOR HEIGHTS AND LOCATIONS OF TOILET ACCESSORIES NOT SHOWN ON ELSEWHERE.
 - CONTRACTOR TO FIELD VERIFY ALL MEASUREMENTS AND CONDITIONS NEW AND EXISTING. NOTIFY THE ARCHITECT/OWNER'S REPRESENTATIVE OF ANY DISCREPANCIES.
 - ENLARGED PLANS MAY BE ROTATED OR MIRRORED COORDINATE WITH MAIN FLOOR PLAN.
 - CONTRACTOR TO PROVIDE 4'-0" HIGH PLYWOOD BACKER BOARD IN ALL MECHANICAL AND ELECTRICAL ROOMS MOUNTED 3'-6" A.F.F. FOR PERIMETER OF ROOM.

- General Notes (Roof Plan)**
- REFER TO EXTERIOR ENCLOSURE TYPES FOR ROOF DETAILS.
 - MINIMUM SLOPES ON ROOF SHALL BE 1/4" PER FOOT IN DIRECTION OF DRAINS OR ROOF EDGE.
 - ELEVATION ABBREVIATIONS AS FOLLOWS: **BO**D = BOTTOM OF DECK, **TO**S = TOP OF STEEL, **TOP** = TOP OF PARAPET.
 - OBJECT ABBREVIATIONS AS FOLLOWS: **RD** = ROOF DRAIN, **RTU** = ROOFTOP UNIT, **RH** = ROOF HATCH.
 - PROVIDE ALL ROOFING DETAILS BY MANUFACTURERS WARRANTED SYSTEMS.
 - PROVIDE WALKWAY PADS AT ALL ROOF LADDERS AND AT ALL ROOFTOP EQUIPMENT WORKING AREAS.
 - PROVIDE CRICKETS AT ALL ROOFTOP EQUIPMENT TO FACILITATE DRAINAGE.



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Lee's Summit R7 District Athletics Facilities

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Jay Browning
Missouri License No. 2019022591
Date: 09/28/2020
Architect License No. A-2009022779

REVISIONS		
Number	DESCRIPTION	DATE

PROJECT NO: 0119-0101
DATE: September 28, 2020

Home Gateway -
Floor/Roof/Plans
H-A121
BID SET

General Notes (Floor Plans):

1. ALL WALL TYPES TO BE M6 UNLESS OTHERWISE NOTED.
2. ALL WALL DIMENSIONS ARE TO FACE OF WALL UNLESS OTHERWISE NOTED.
3. MASONRY WALLS ARE ALIGNED WITH THE INTERIOR FACE ON GRID LINES AND MASONRY DIMENSIONS ARE NOMINAL UNLESS OTHERWISE NOTED.
4. DOORS IN STUD WALLS NEAR PERPENDICULAR WALLS ARE LOCATED 4" OFF FACE OF PERPENDICULAR WALL UNLESS OTHERWISE NOTED.
5. DOORS IN MASONRY WALLS ARE LOCATED IN ROUGH OPENINGS DIMENSIONED ON SHEET.
6. SEE GENERAL ACCESSIBILITY SHEET FOR HEIGHTS AND LOCATIONS OF TOILET ACCESSORIES NOT SHOWN ON ELSEWHERE.
7. CONTRACTOR TO FIELD VERIFY ALL MEASUREMENTS AND CONDITIONS NEW AND EXISTING. NOTIFY THE ARCHITECT/OWNER'S REPRESENTATIVE OF ANY DISCREPANCIES.
8. ENLARGED PLANS MAY BE ROTATED OR MIRRORRED COORDINATE WITH MAIN FLOOR PLAN.
9. CONTRACTOR TO PROVIDE 4'-0" HIGH PLYWOOD BACKER BOARD IN ALL MECHANICAL AND ELECTRICAL ROOMS MOUNTED 3'-6" A.F.F. FOR PERIMETER OF ROOM.

General Notes (Reflected Ceiling Plans):

1. ALL CEILING AND SOFFIT HEIGHTS ARE GIVEN ABOVE FINISHED FLOOR ELEVATION (EL. 0'-0").
2. GENERALLY ONLY CEILING MOUNTED FIXTURES ARE SHOWN ON THIS PLAN. COORDINATE WITH MEP PLANS FOR ADDITIONAL INFORMATION.
3. VERIFY LOCATIONS OF ALL CEILING ACCESS PANELS WITH MEP DRAWINGS. COORDINATE LOCATIONS OF PANELS WITH ARCHITECT PRIOR TO INSTALLATION. ACCESS PANEL FIRE RATINGS MUST MATCH CEILING ASSEMBLY FIRE RATINGS.
4. LIGHTING FIXTURES TO BE CENTERED AND SPACED EQUALLY UNLESS NOTED OTHERWISE.
5. LIGHT FIXTURES ARE SHOWN FOR DIMENSIONAL PURPOSES ONLY COORDINATE WITH ELECTRICAL DRAWINGS FOR FIXTURE DESIGNATIONS.
6. IF PROJECT INCLUDES FIRE RATED CEILINGS, LIGHT FIXTURES LOCATED IN RATED CEILING ASSEMBLIES ARE TO BE TENTED OR OTHERWISE RATED TO MATCH THE CEILING.

**Lee's Summit R7 District
Athletics Facilities**

Lee's Summit High School
400 SW Blue Parkway
Lee's Summit, MO 64063

owner:
Lee's Summit R7 School District
301 NE Tudor Road
Lee's Summit, MO 64086

architect:
Gould Evans
4200 Pennsylvania Avenue
Kansas City, MO 64111
816.931.6655 voice
www.gouldevans.com

structural engineer:
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civil engineer:
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mechanical/electrical engineer:
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Architect License No. A-2009027279

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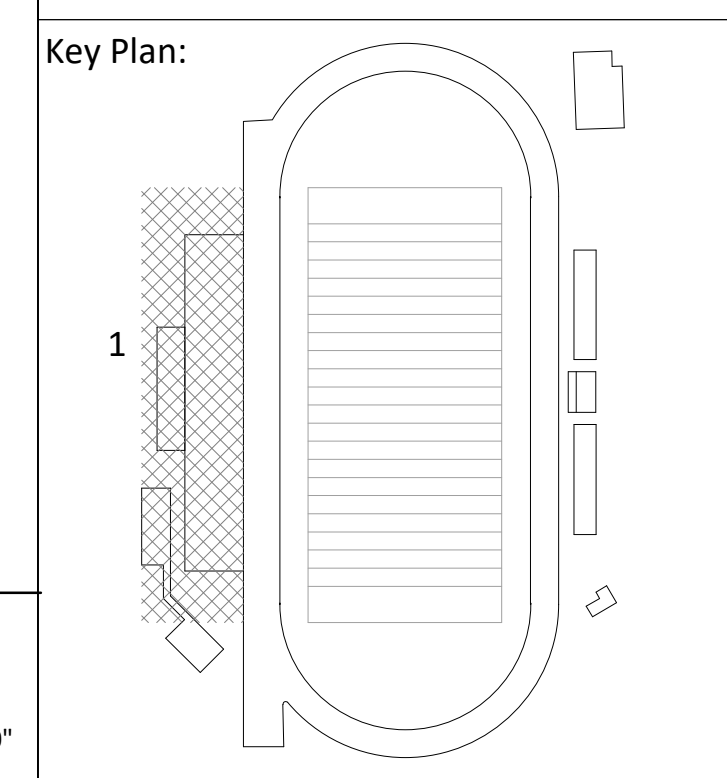
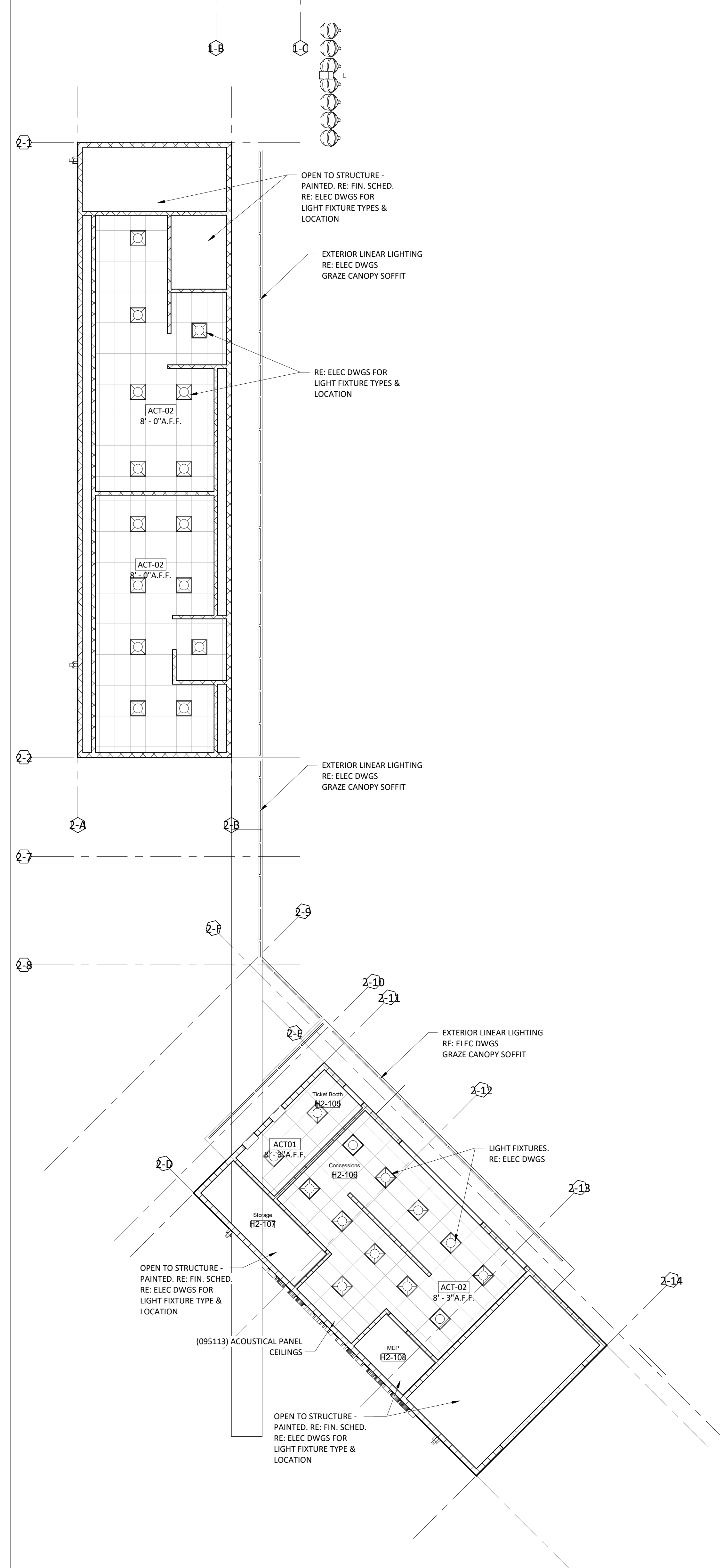
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PROJECT NO: 0119-0101
DATE: September 28, 2020

Home Gateway -
Reflected Ceiling Plans

H-A122

BID SET



RCP - Home Gateway **A3**
1/8" = 1'-0"

General Notes (Exterior Elevations):

1. MATERIALS AND FINISHES INDICATED APPLY TO ALL SIMILAR ELEMENTS.
2. COORDINATE EXTERIOR LIGHTING FIXTURE TYPES AND LOCATIONS WITH ELECTRICAL DRAWINGS.

**Lee's Summit R7 District
Athletics Facilities**

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Lee's Summit, MO 64063

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mechanical/electrical engineer:
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Finish Legend - Exterior

MARK	MODEL
074113	STANDING SEAM METAL ROOF
H-MR01	SNAP-CLAD-CITYSCAPE
074113	Standing Seam Metal Roof
MR01	074213 23 METAL COMPOSITE MATERIAL WALL PANELS
ACMS01a	
H-MWP1	PAC-3000 RS COMPOSITE WALL PANEL - COLOR GRAPHITE
088000	GLAZING
IGU01	1" INSULATED GLASS

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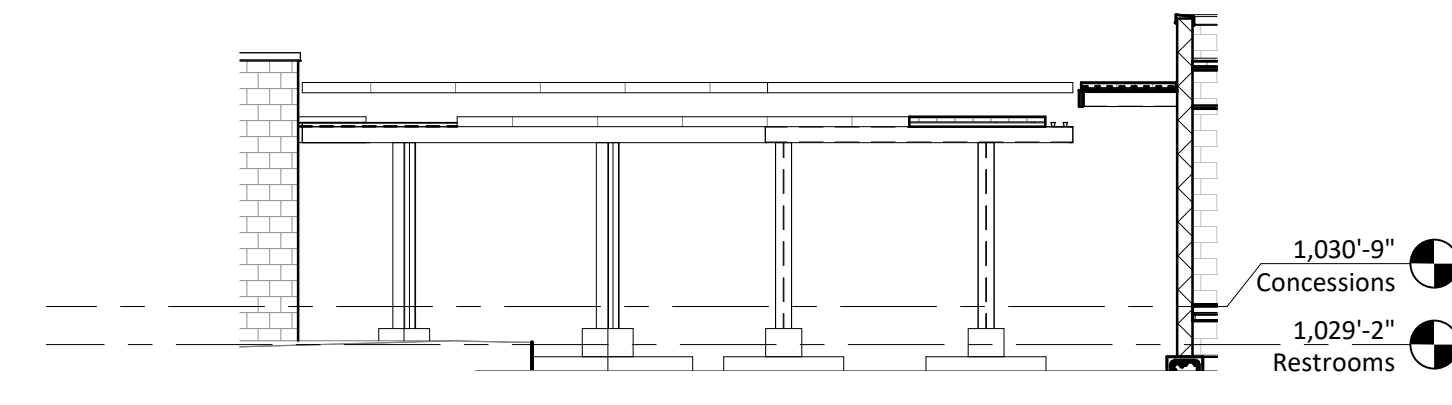
Number	DESCRIPTION	DATE

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DATE: September 28, 2020

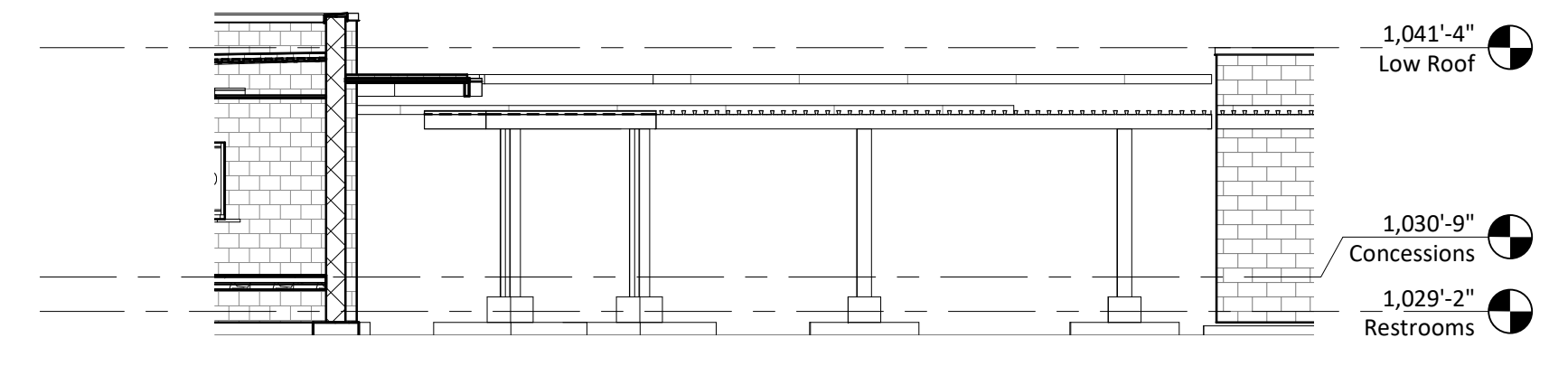
**Home Gateway -
Exterior Elevations**

H-A123

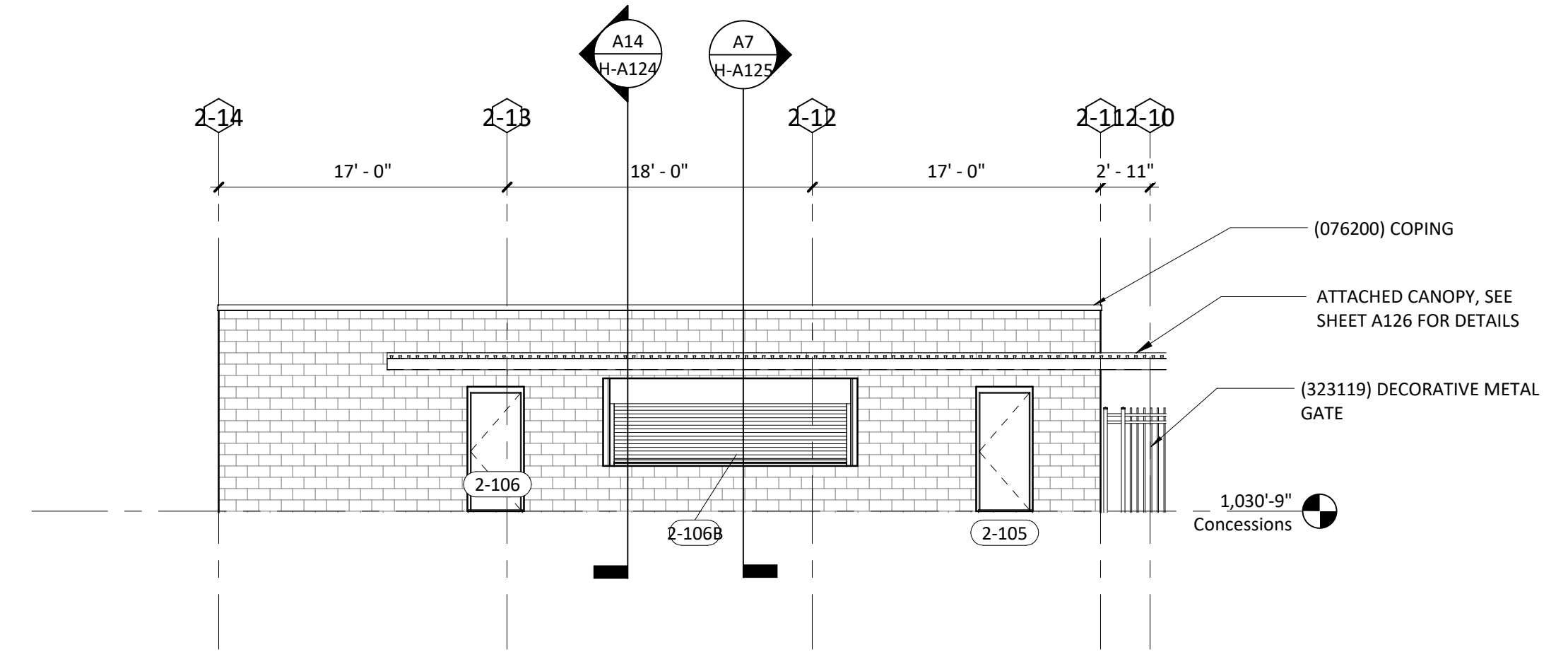
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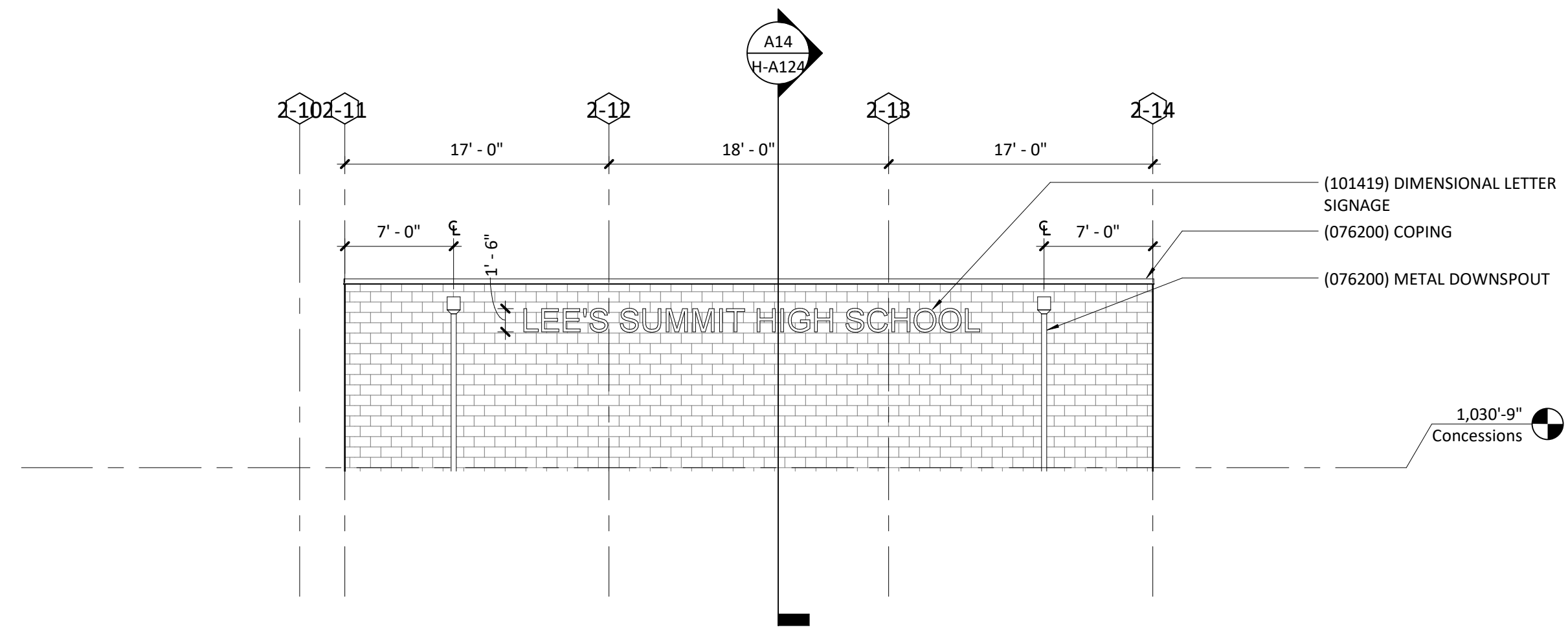
West Elevation - Canopy Alternate H2 M11
1/8" = 1'-0"



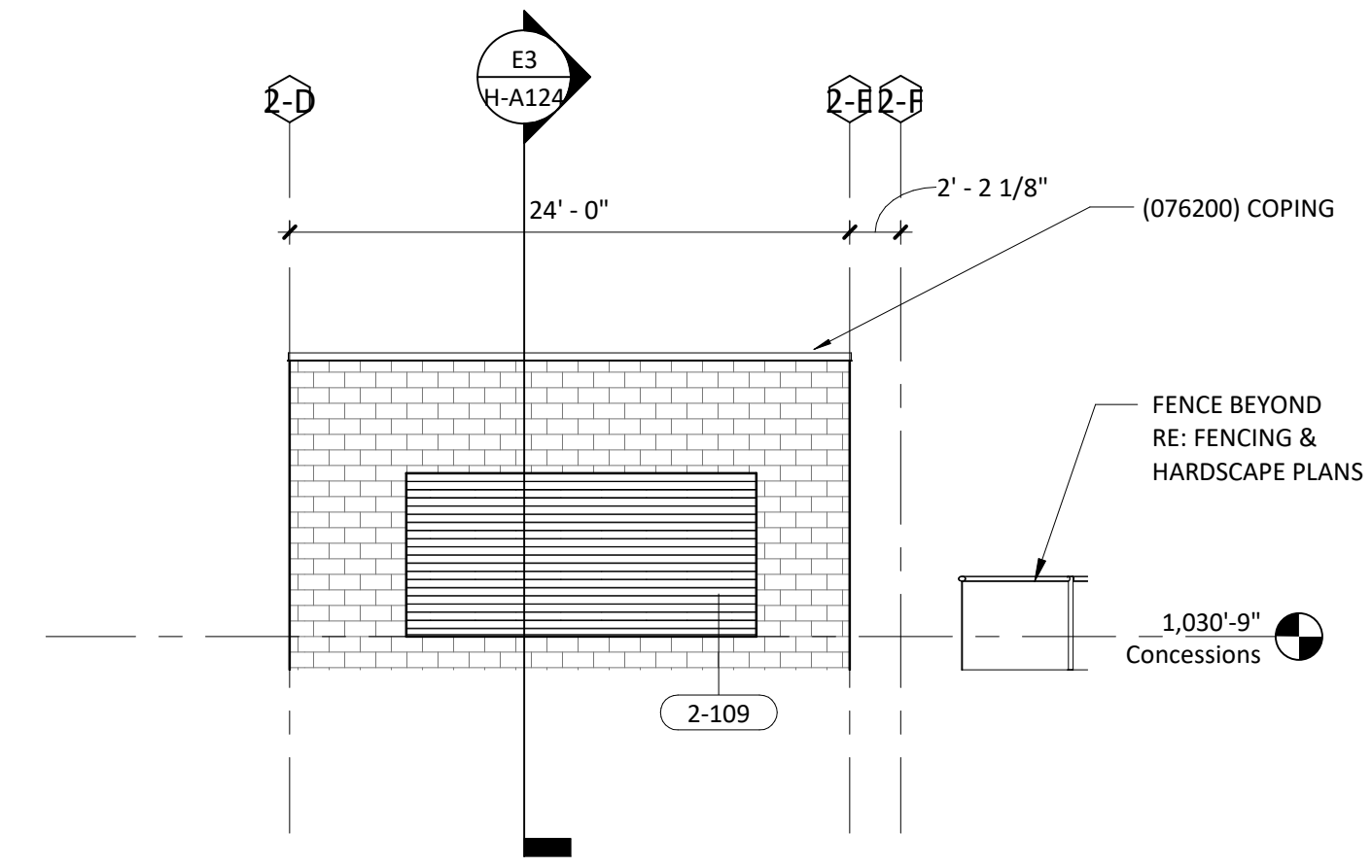
East Elevation - Canopy Alternate H2 M3
1/8" = 1'-0"



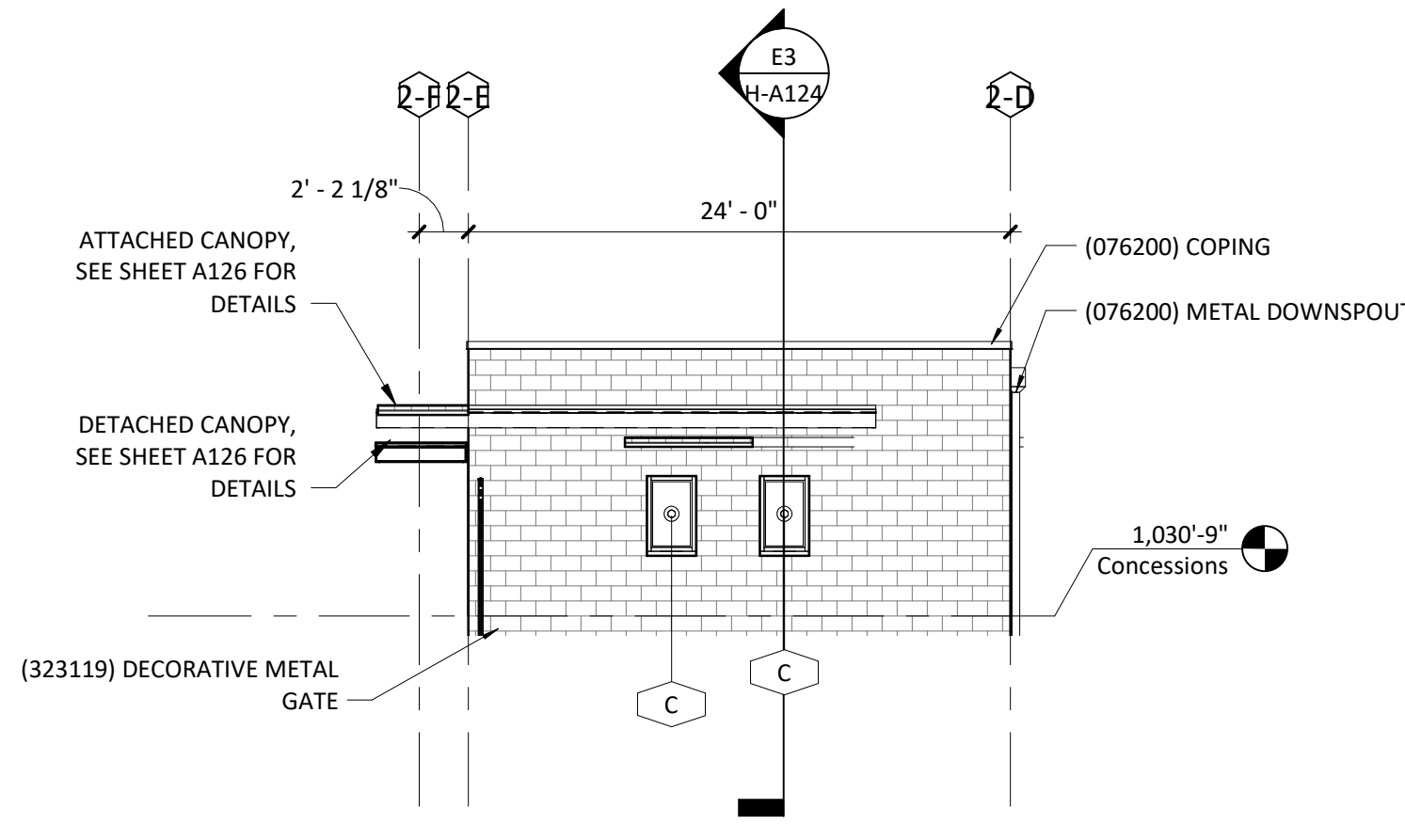
NE Elevation - Ticket Booth & Concessions H11
1/8" = 1'-0"



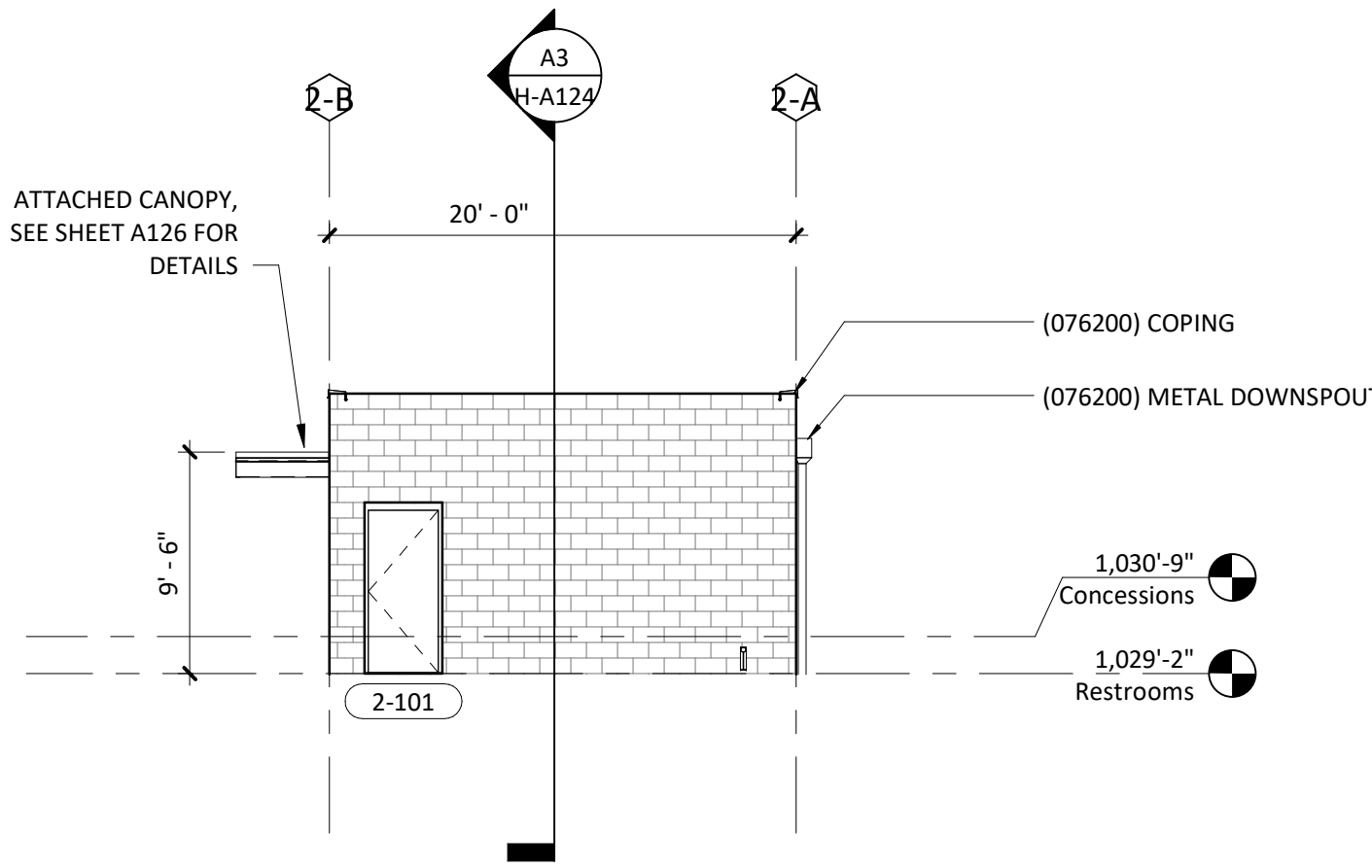
SW Elevation - Ticket Booth & Concessions H3
1/8" = 1'-0"



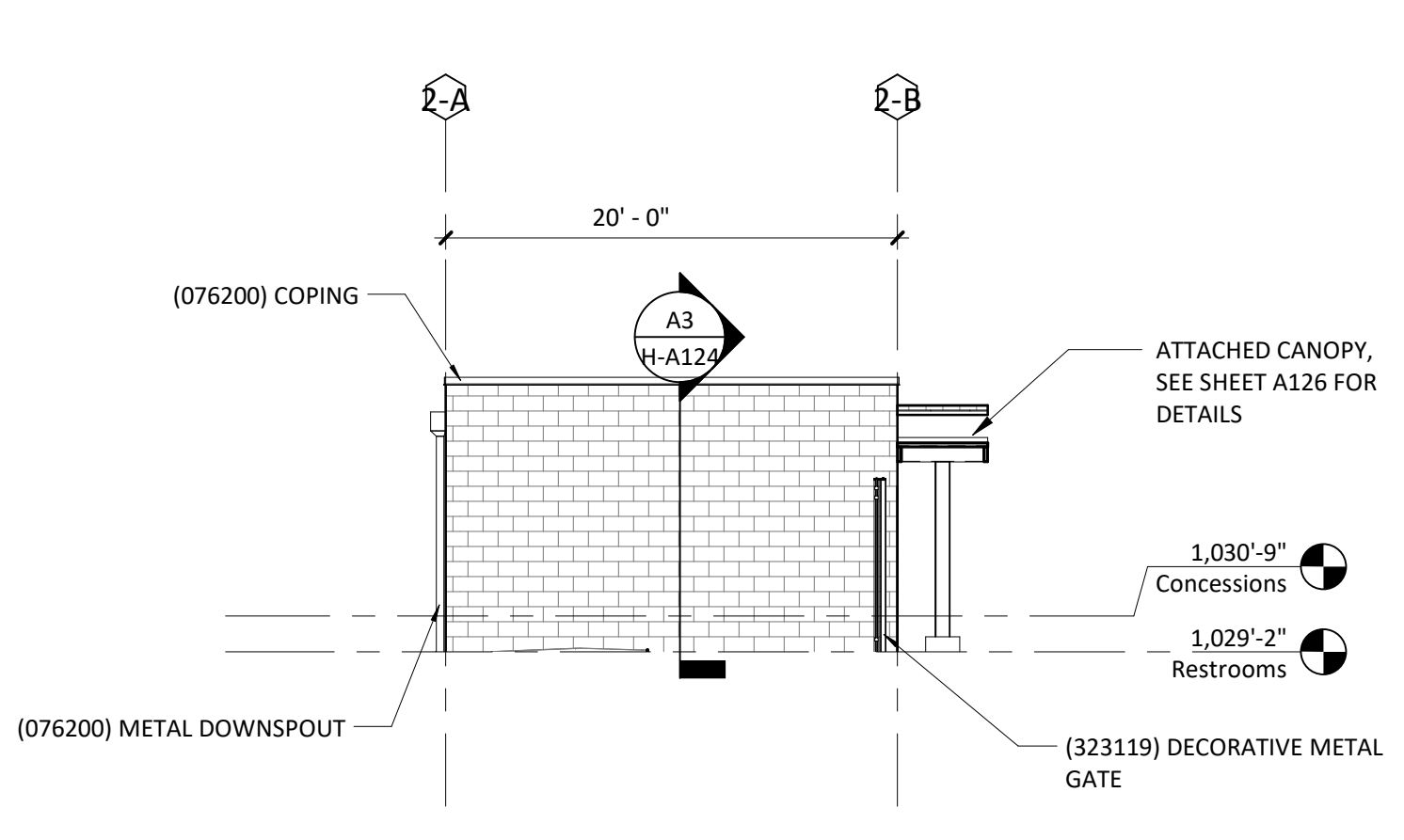
SE Elevation - Ticket Booth & Concessions E15
1/8" = 1'-0"



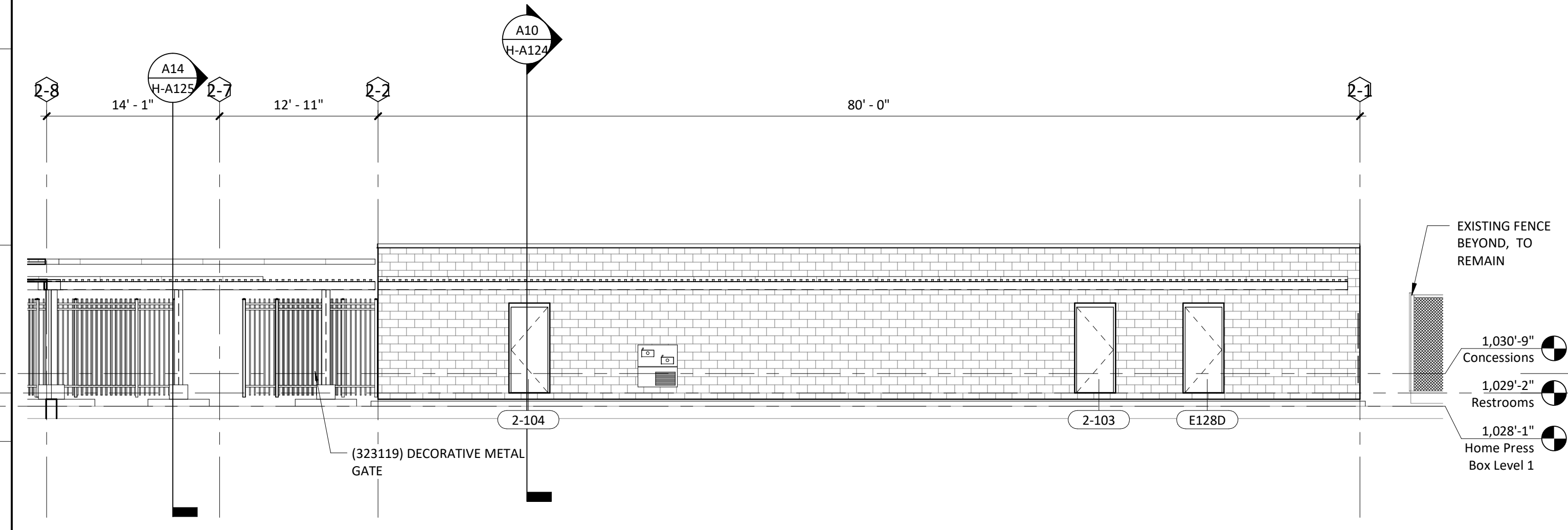
NW Elevation - Ticket Booth & Concessions E11
1/8" = 1'-0"



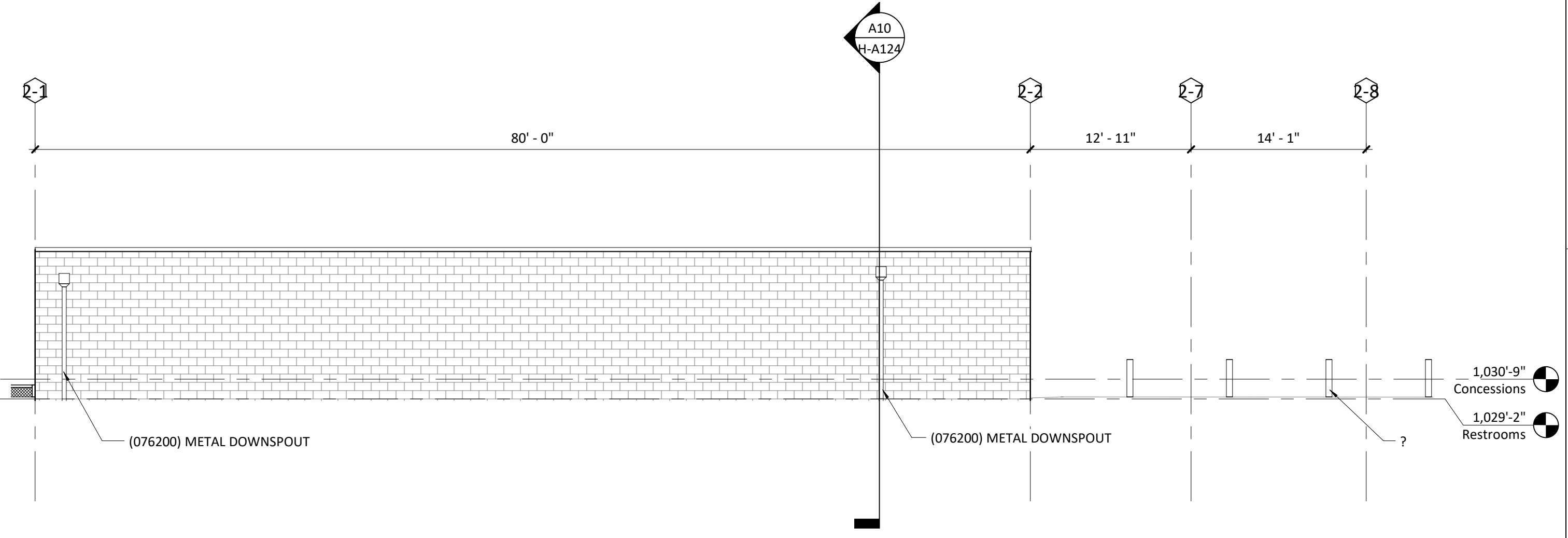
North Elevation - Restrooms E7
1/8" = 1'-0"



South Elevation - Restrooms E3
1/8" = 1'-0"

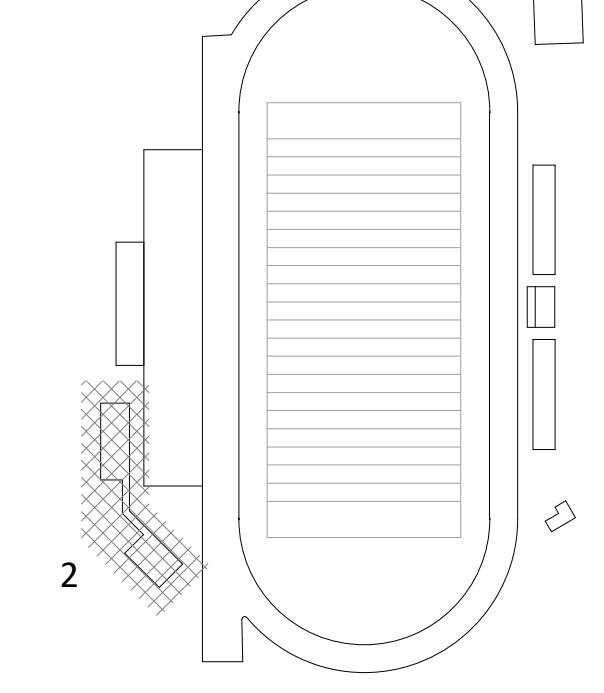


East Elevation - Restrooms A11
1/8" = 1'-0"



West Elevation - Restrooms A3
1/8" = 1'-0"

Key Plan:



General Notes (Building Sections):

- BUILDING SECTIONS SHOWN FOR ORIENTATION AND CONTEXT. REFER TO WALL SECTIONS FOR CONSTRUCTION DETAILING AND REFERENCES.

**Lee's Summit R7 District
Athletics Facilities**

Lee's Summit High School
400 SW Blue Parkway
Lee's Summit, MO 64063

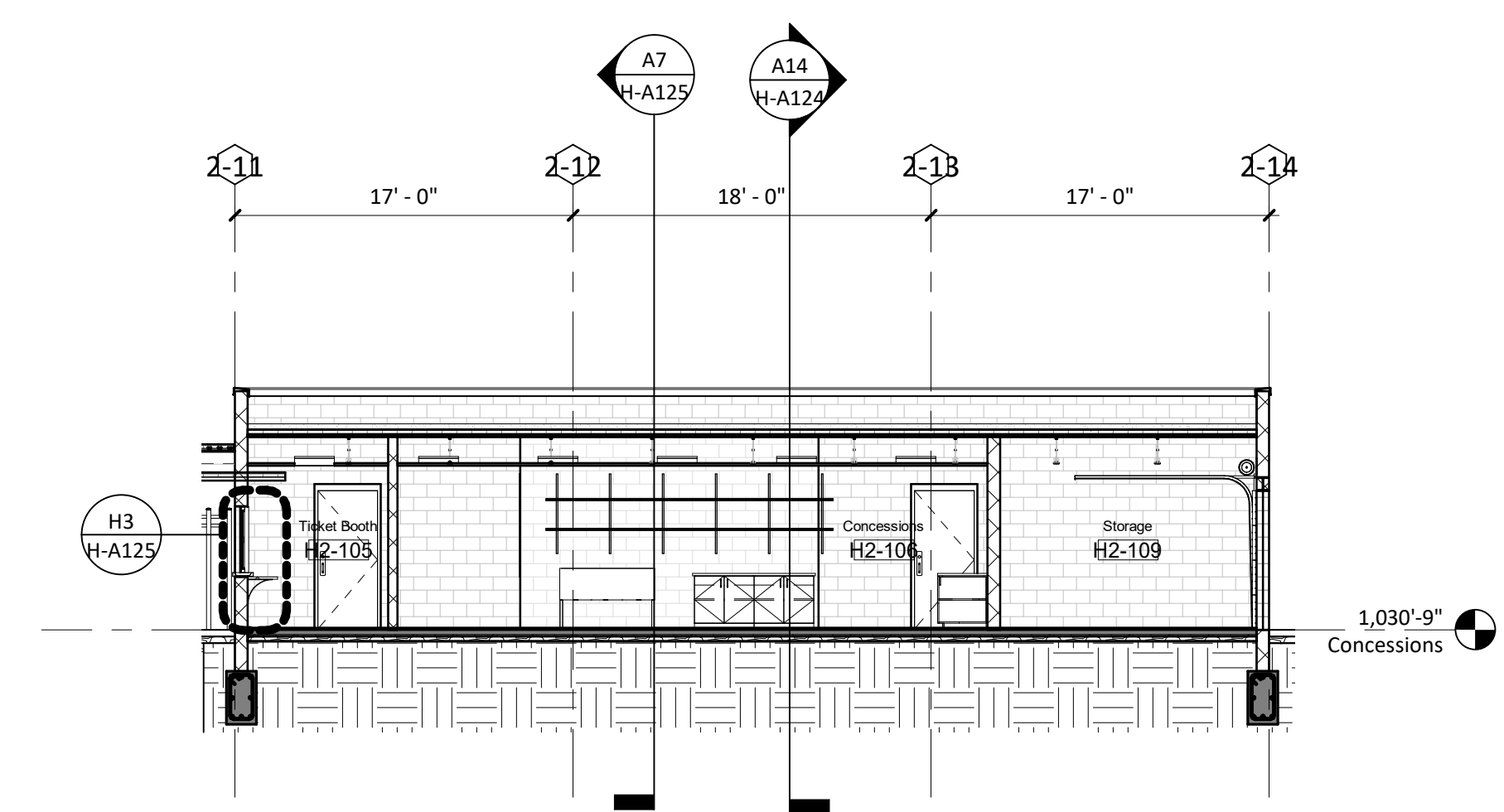
owner:
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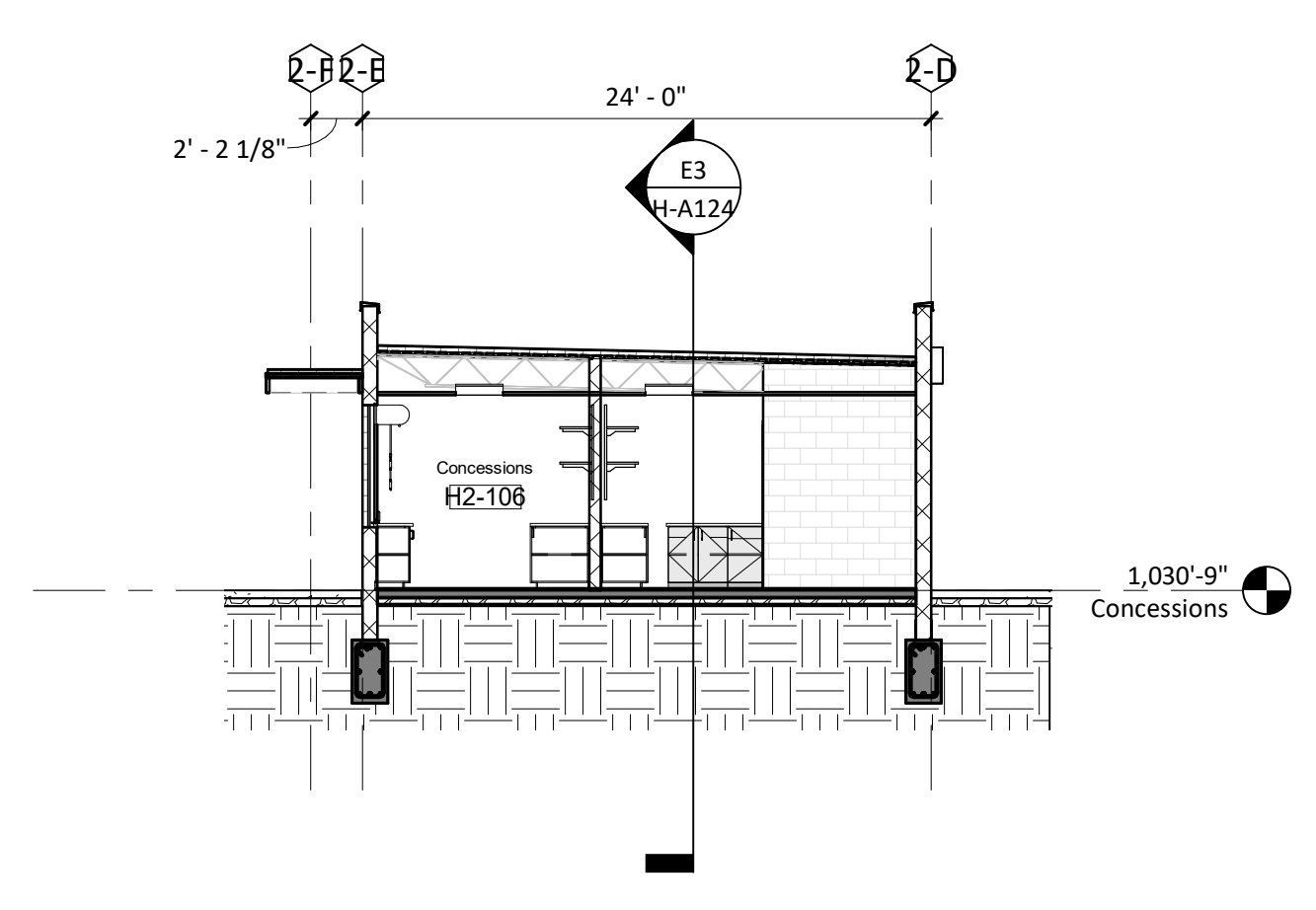
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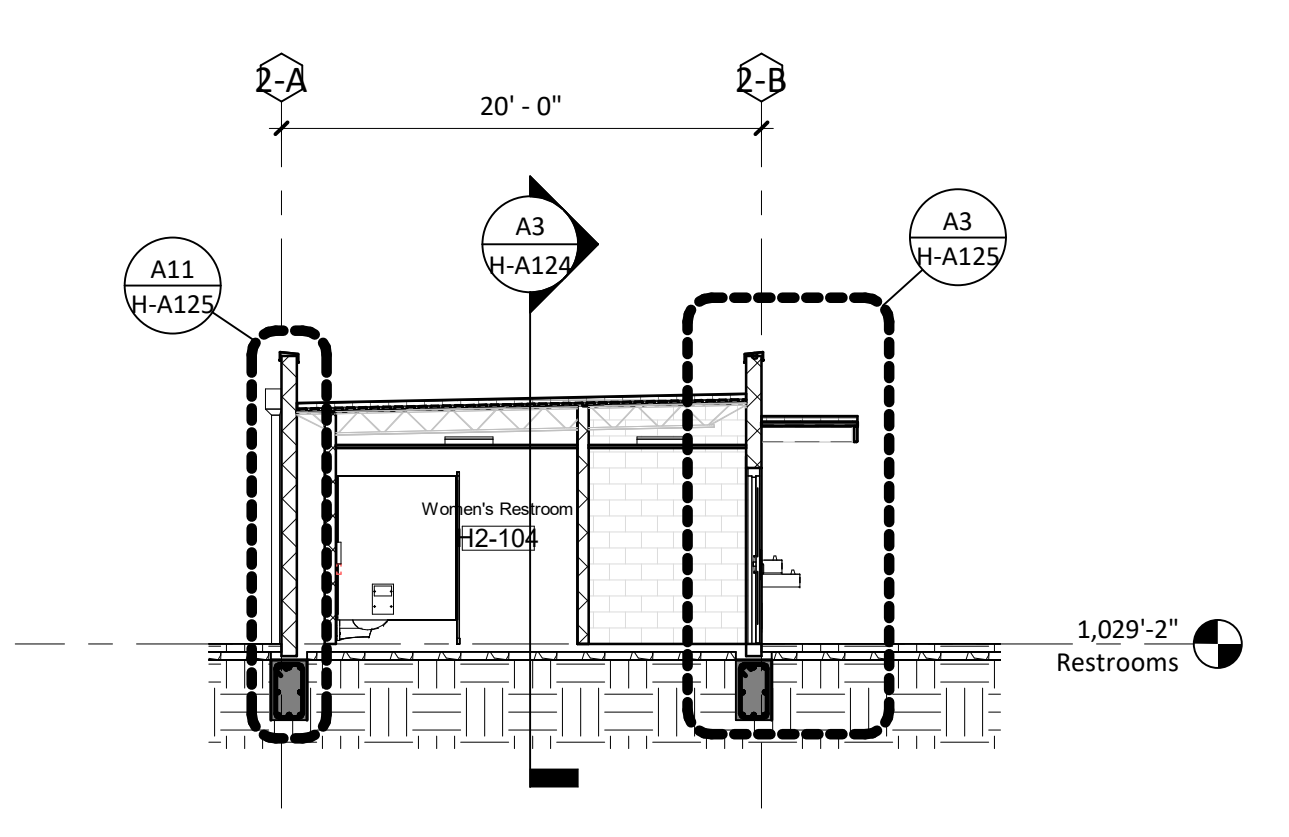
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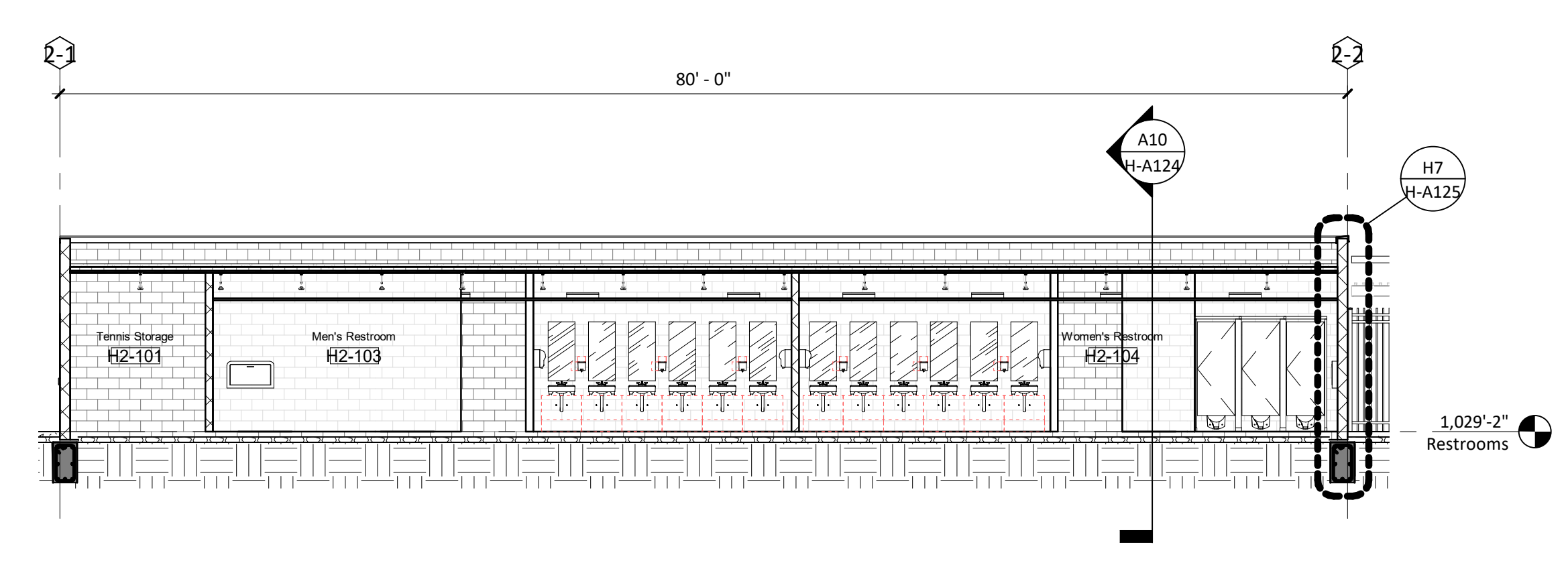
Building Section - Ticket Booth & Concessions E3
1/8" = 1'-0"



Building Section - Concessions A14
1/8" = 1'-0"

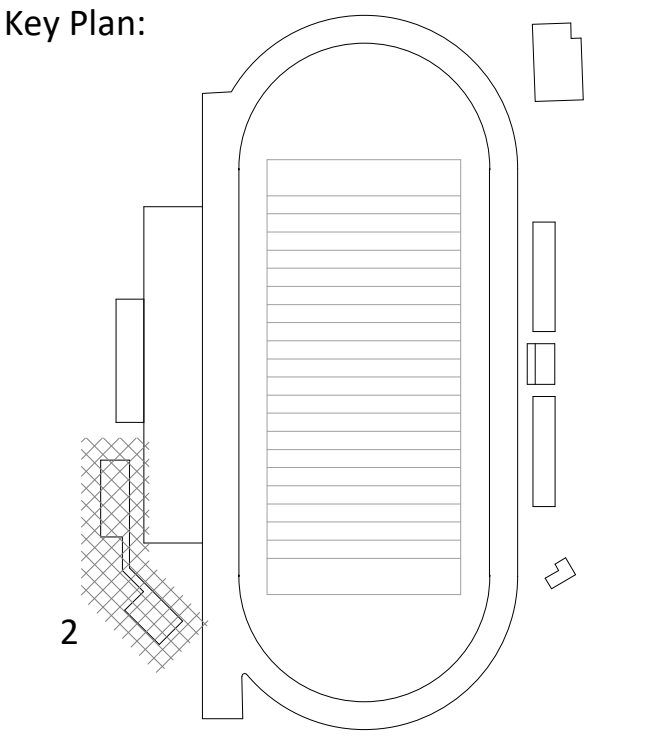


EW Building Section - Restrooms A10
REFER TO H-A002 FOR TOILET ACCESSORIES, TYPE & LOCATION
1/8" = 1'-0"

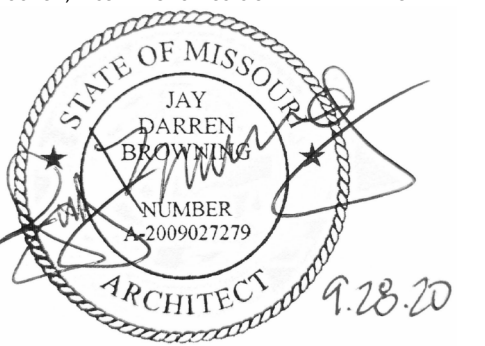


N/S Building Section - Restrooms A3
REFER TO H-A002 FOR TOILET ACCESSORIES, TYPE & LOCATION
1/8" = 1'-0"

Key Plan:



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REVISIONS

Number	DESCRIPTION	DATE

PROJECT NO: 0119-0101
DATE: September 28, 2020

Home Gateway -
Building Sections

H-A124

BID SET

General Notes (Wall Sections):

- SEE STRUCTURAL DRAWINGS FOR ADDITIONAL FOUNDATIONS NOT SHOWN ON WALL SECTIONS AND FOR DIMENSIONS AND REINFORCING OF FOUNDATIONS
- ALL OPENINGS, FLASHING, COUNTER FLASHING, AND EXPANSION JOINTS SHALL BE WATER TIGHT.
- ALL OPEN JOINTS, PENETRATIONS, AND OTHER OPENINGS IN THE ENVELOPE SHALL BE SEALED, GASKETED, OR WEATHER-STRIPPED TO LIMIT AIR LEAKAGE.
- PROVIDE MOLD RESISTANT GYPSUM BOARD AT ALL EXTERIOR WALLS.

**Lee's Summit R7 District
Athletics Facilities**

Lee's Summit High School
400 SW Blue Parkway
Lee's Summit, MO 64063

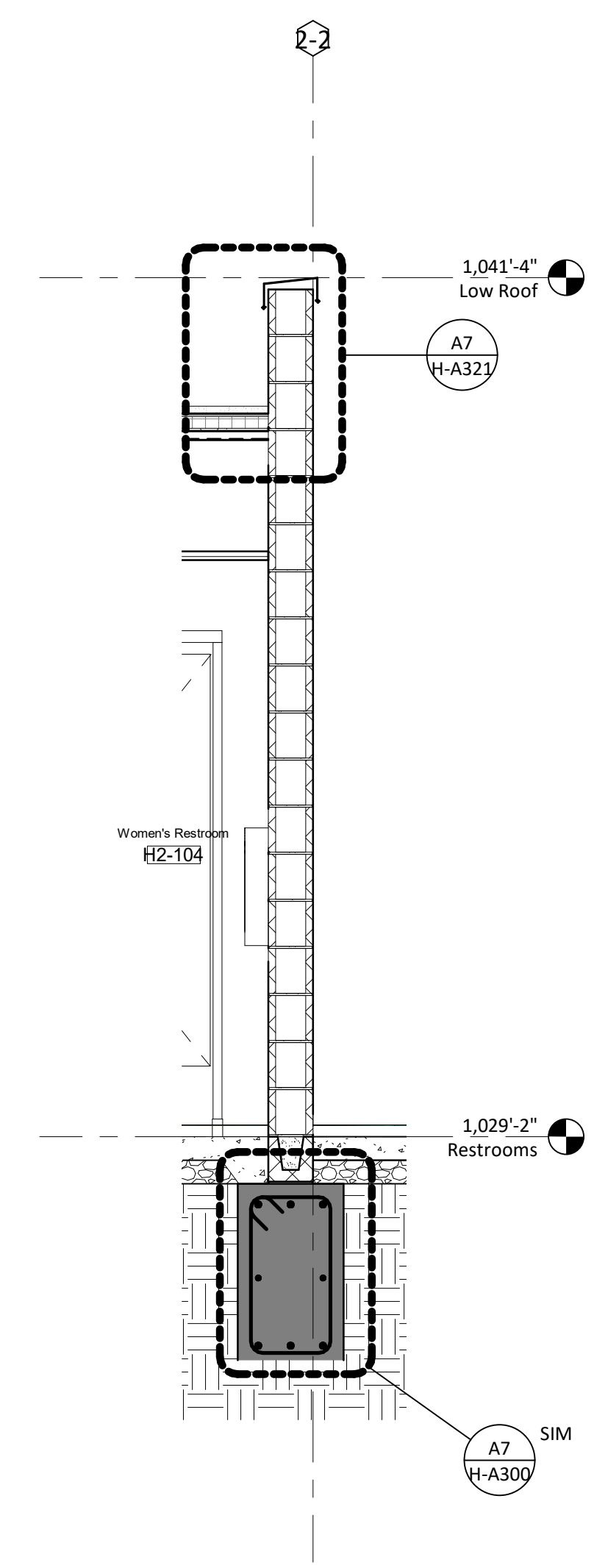
owner:
Lee's Summit R7 School District
301 NE Tudor Road
Lee's Summit, MO 64086

architect:
Gould Evans
4200 Pennsylvania Avenue
Kansas City, MO 64111
816.931.6655 voice
www.gouldevans.com

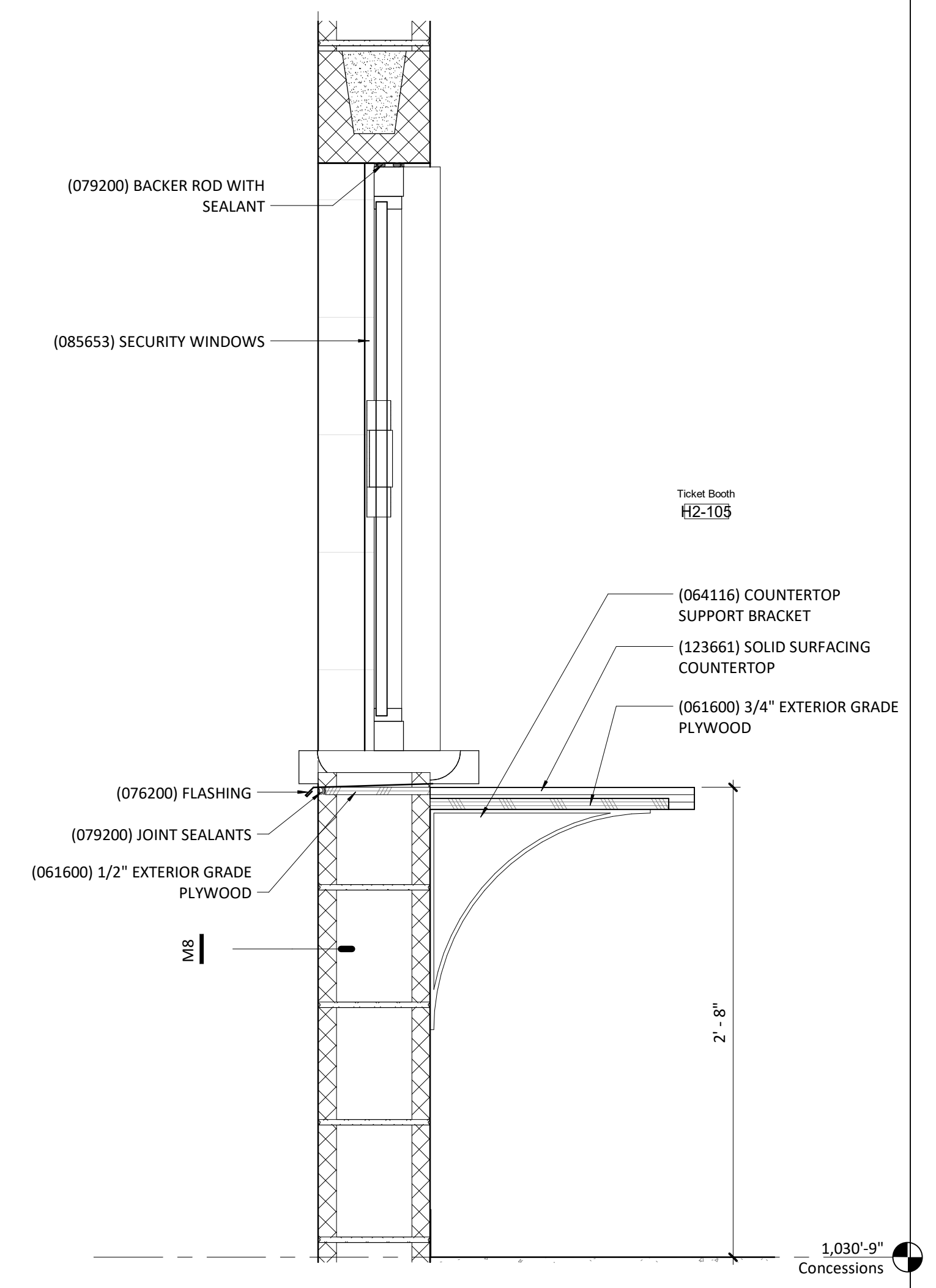
structural engineer:
Bob D. Campbell & Company, Inc.
4338 Bellevue Avenue
Kansas City, MO 64111
816.531.4144

civil engineer:
Kaw Valley Engineering
14700 West 114th Terrace
Lenexa, KS 66215
913.485.0318

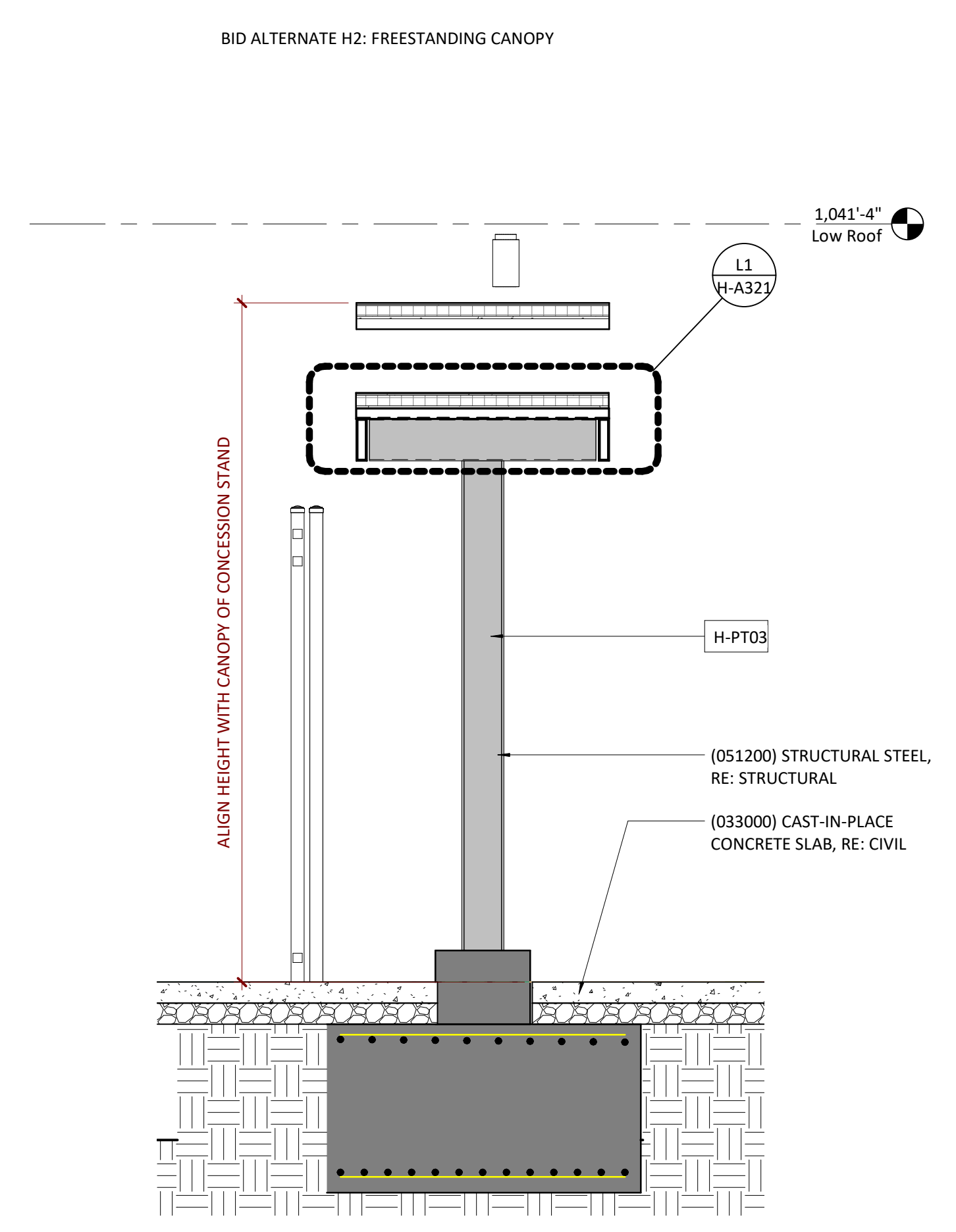
mechanical/electrical engineer:
Henderson Engineers
8345 Lenexa Drive | Suite 300
Lenexa, KS 66214
816.742.5000



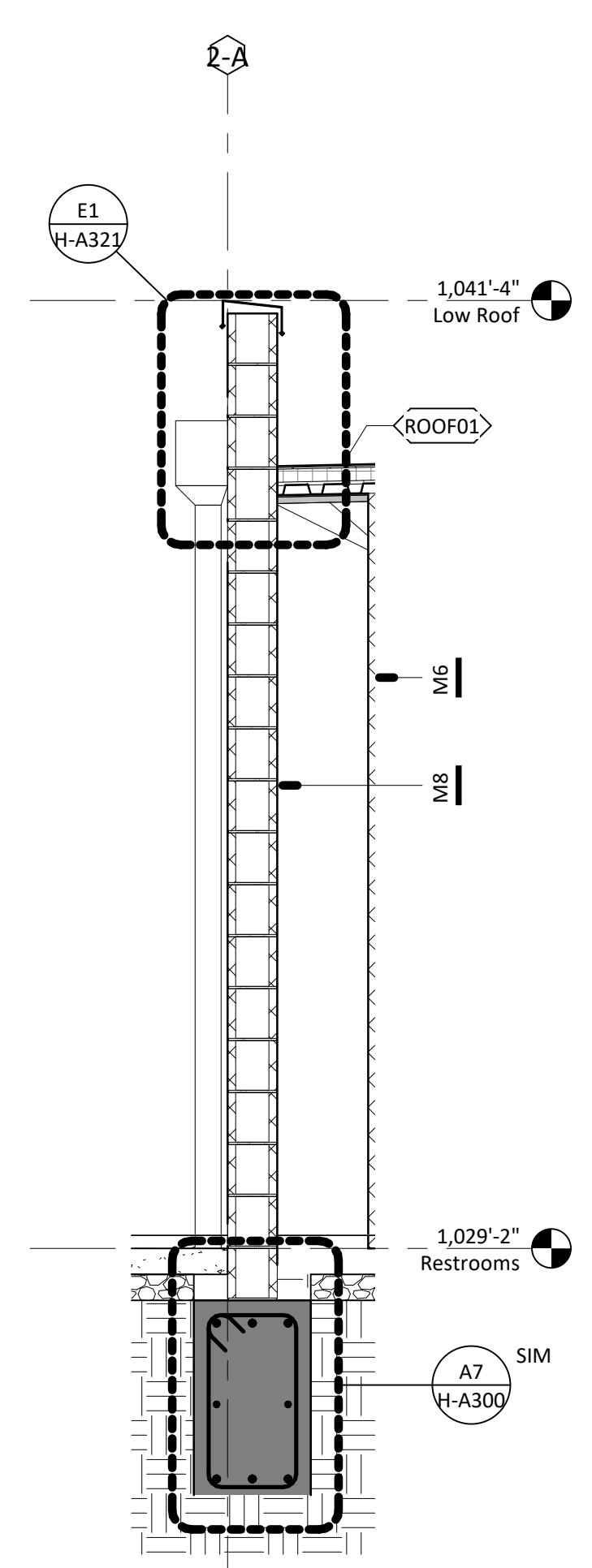
Wall Section - South Side @ Restrooms **H7**
1/2" = 1'-0"



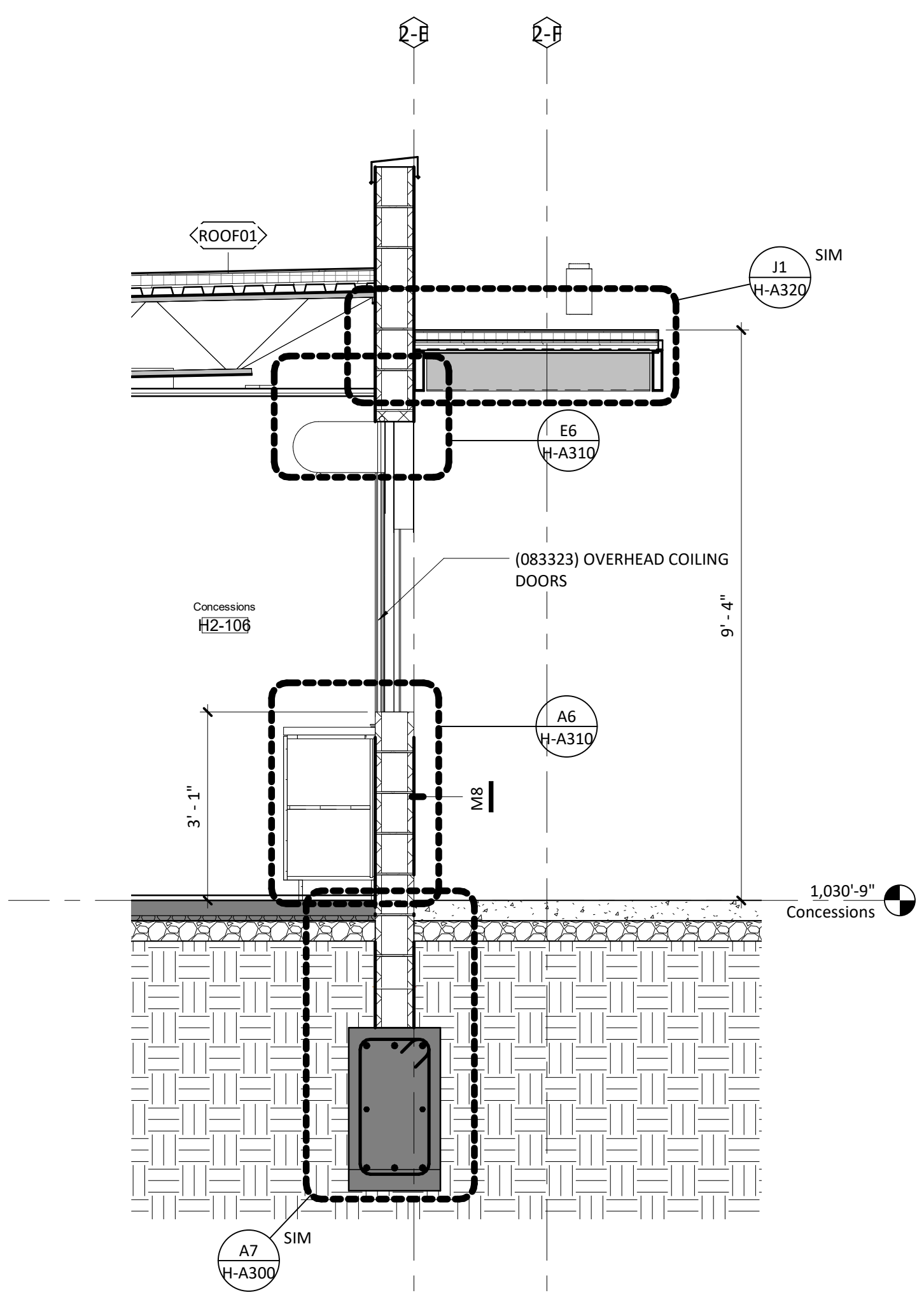
Section Detail - Ticket Booth Window **H3**
1 1/2" = 1'-0"



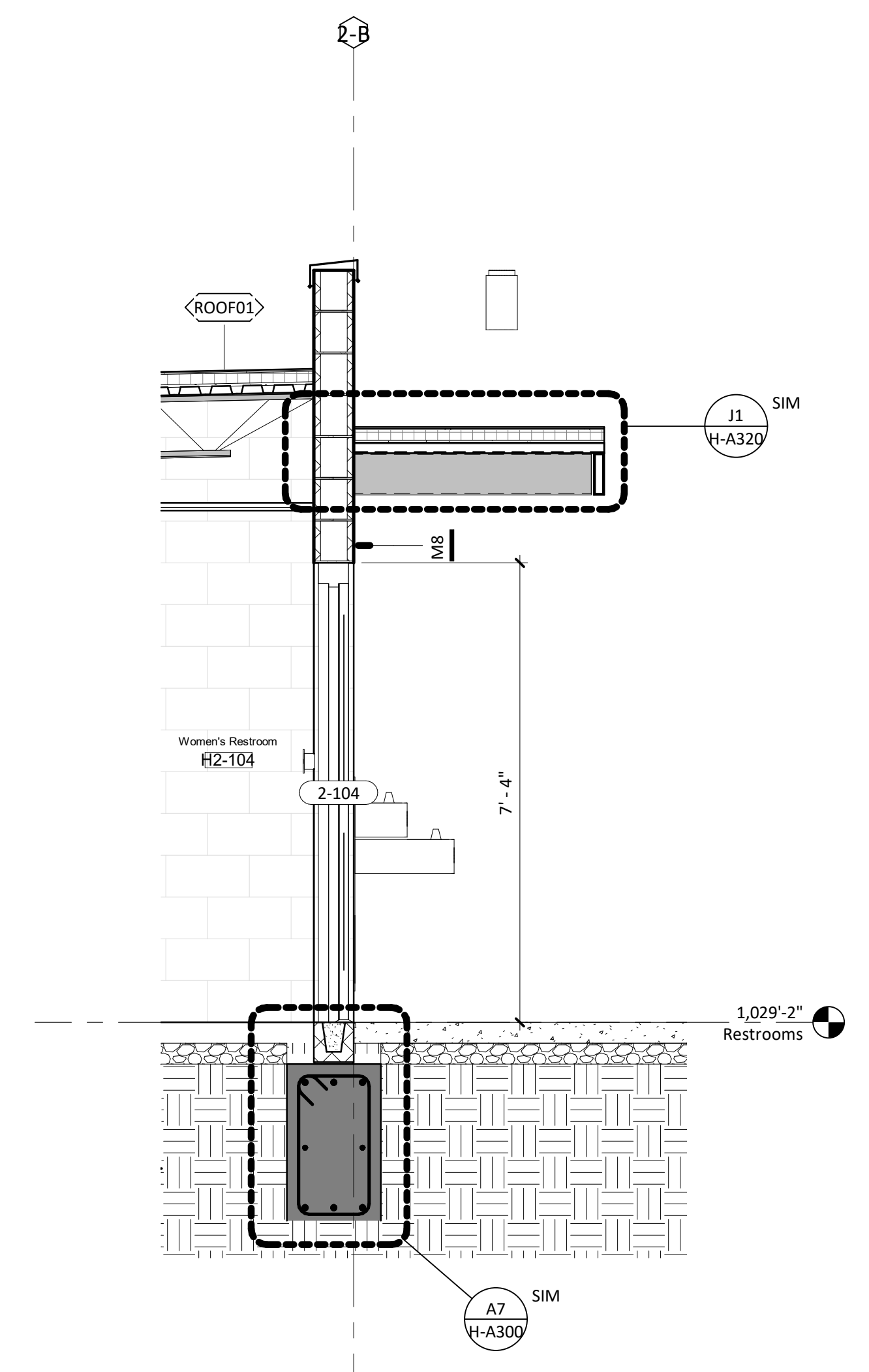
Freestanding Canopy Section **A14**
1/2" = 1'-0"



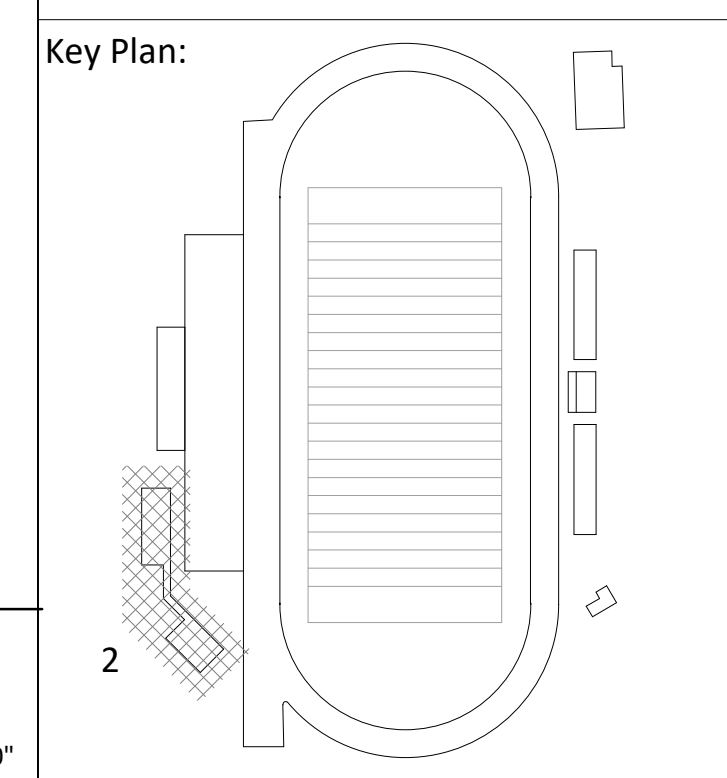
Typical CMU Wall Section **A11**
1/2" = 1'-0"



Wall Section - East Side @ Concessions Window **A7**
1/2" = 1'-0"



Wall Section - East Side @ Canopy **A3**
1/2" = 1'-0"



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Architectural Corporation
Missouri License No. 2018022591 Date: 09/28/2020
Jay Browning
Architect License No. A-2009027279

REVISIONS		
Number	DESCRIPTION	DATE

PROJECT NO: 0119-0101
DATE: September 28, 2020

Home Gateway - Wall
Sections & Details

H-A125

BID SET

- General Notes (Interior Elevations):**
- REFER TO FINISH LEGEND/SCHEDULE FOR COMPLETE LISTING OF FINISHES
 - REFER TO PROJECT STANDARDS FOR INSTALLATION INFORMATION FOR ACCESSORIES, TOILET FIXTURES, ETC.
 - REFER TO PROJECT STANDARDS FOR DEVICES FOR TYPICAL INSTALLATION INFORMATION
 - AT GYP SOFFIT CONTROL JOINTS, CONTINUE CONTROL JOINT UP BOTH VERTICAL FACES OF SOFFIT.

**Lee's Summit R7 District
Athletics Facilities**

Lee's Summit High School
400 SW Blue Parkway
Lee's Summit, MO 64063

owner:
Lee's Summit R7 School District
301 NE Tudor Road
Lee's Summit, MO 64086

architect:
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4200 Pennsylvania Avenue
Kansas City, MO 64111
816.931.6655 voice
www.gouldevans.com

structural engineer:
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4338 Bellevue Avenue
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816.531.4144

civil engineer:
Kaw Valley Engineering
14700 West 134th Terrace
Lenexa, KS 66215
913.485.0318

mechanical/electrical engineer:
Henderson Engineers
8345 Lenexa Drive | Suite 300
Lenexa, KS 66214
816.742.5000

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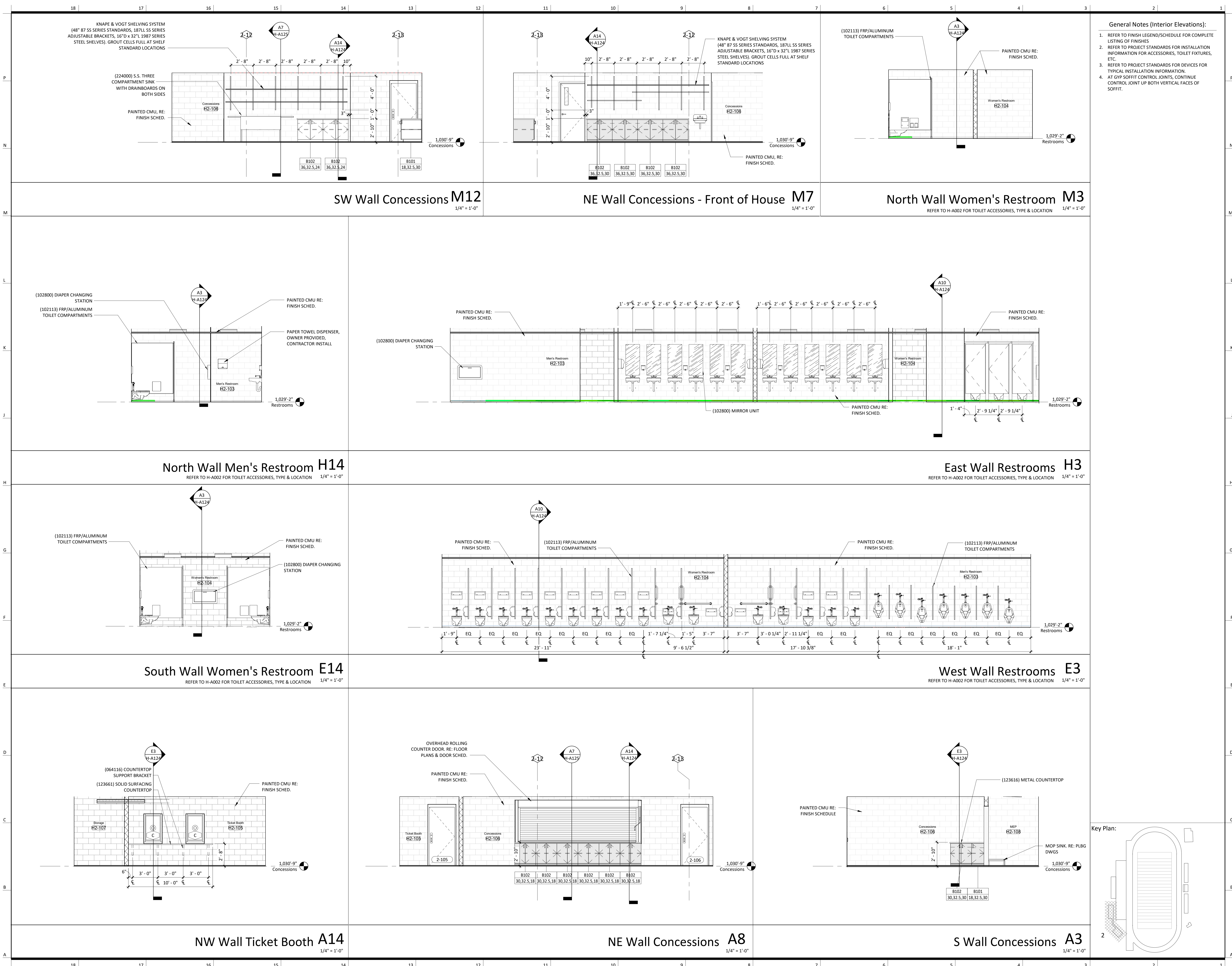
REVISIONS		
Number	DESCRIPTION	DATE

PROJECT NO: 0119-0101
DATE: September 28, 2020

Home Gateway -
Interior Elevations

H-A126

BID SET



**Lee's Summit R7 District
Athletics Facilities**

Lee's Summit High School
400 SW Blue Parkway
Lee's Summit, MO 64063

owner:
Lee's Summit R7 School District
301 NE Tudor Road
Lee's Summit, MO 64086

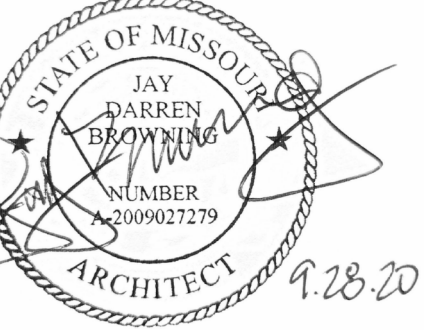
architect:
Gould Evans
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Kansas City, MO 64111
816.931.6655 voice
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Jay Browning
Missouri License No. 2019022591 Date: 09/28/2020
Architect License No. A-2009022779

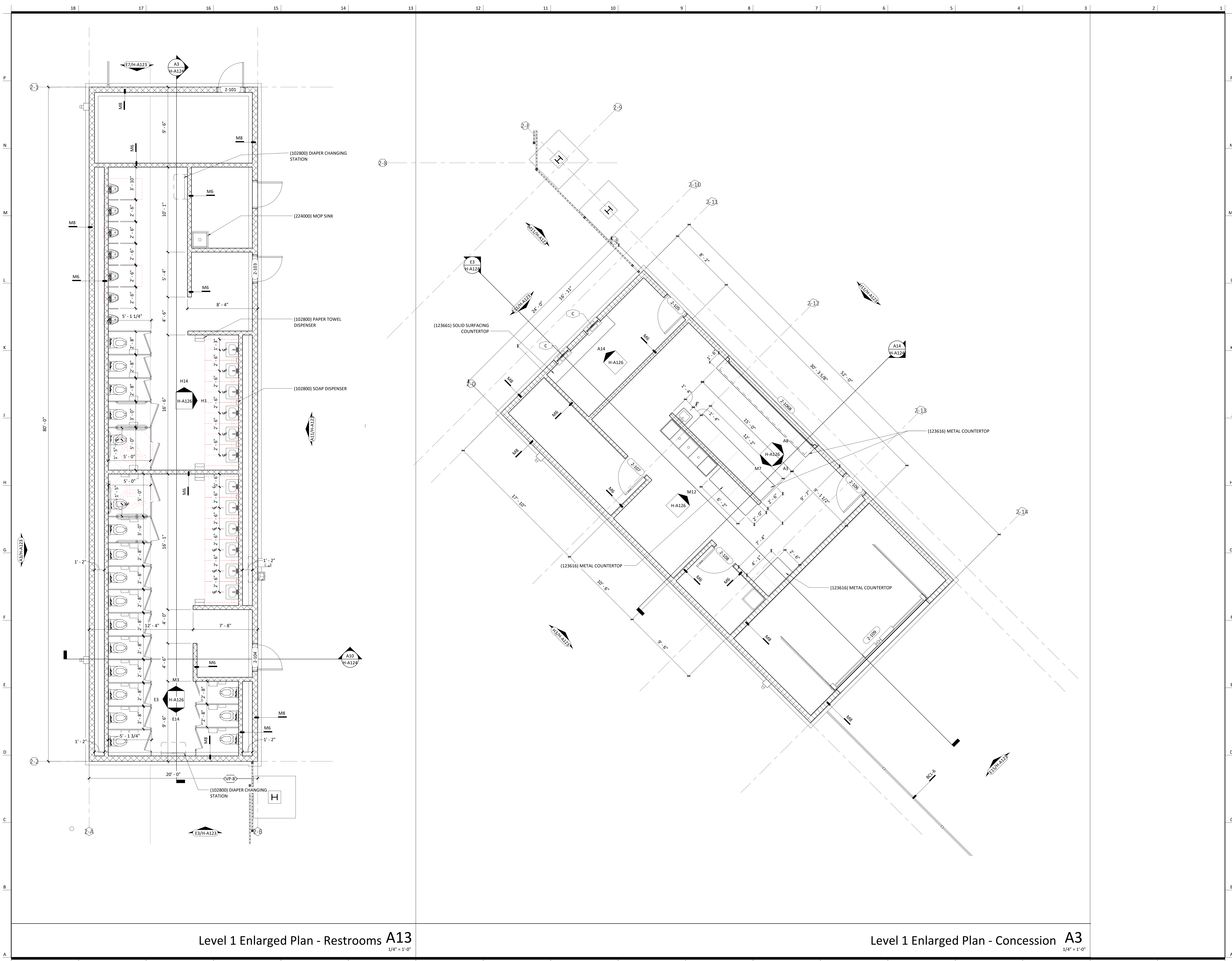
REVISIONS		
Number	DESCRIPTION	DATE

PROJECT NO: 0119-0101
DATE: September 28, 2020

Home Gateway -
Enlarged Plans

H-A127

BID SET



Level 1 Enlarged Plan - Restrooms A13
1/4" = 1'-0"

Level 1 Enlarged Plan - Concession A3
1/4" = 1'-0"

General Notes (Floor Plans):

1. ALL WALL TYPES TO BE M6 UNLESS OTHERWISE NOTED.
2. ALL WALL DIMENSIONS ARE TO FACE OF WALL UNLESS OTHERWISE NOTED.
3. MASONRY WALLS ARE ALIGNED WITH THE INTERIOR FACE ON GRID LINES AND MASONRY DIMENSIONS ARE NOMINAL UNLESS OTHERWISE NOTED.
4. DOORS IN STUD WALLS NEAR PERPENDICULAR WALLS ARE LOCATED 4" OFF FACE OF PERPENDICULAR WALL UNLESS OTHERWISE NOTED.
5. DOORS IN MASONRY WALLS ARE LOCATED IN ROUGH OPENINGS DIMENSIONED ON SHEET.
6. SEE GENERAL ACCESSIBILITY SHEET FOR HEIGHTS AND LOCATIONS OF TOILET ACCESSORIES NOT SHOWN ON ELSEWHERE.
7. CONTRACTOR TO FIELD VERIFY ALL MEASUREMENTS AND CONDITIONS NEW AND EXISTING. NOTIFY THE ARCHITECT/OWNER'S REPRESENTATIVE OF ANY DISCREPANCIES.
8. ENLARGED PLANS MAY BE ROTATED OR MIRRORRED COORDINATE WITH MAIN FLOOR PLAN.
9. CONTRACTOR TO PROVIDE 4'-0" HIGH PLYWOOD BACKER BOARD IN ALL MECHANICAL AND ELECTRICAL ROOMS MOUNTED 3'-6" A.F.F. FOR PERIMETER OF ROOM.

General Notes (Roof Plan)

1. REFER TO EXTERIOR ENCLOSURE TYPES FOR ROOF DETAILS.
2. MINIMUM SLOPES ON ROOF SHALL BE 1/4" PER FOOT IN DIRECTION OF DRAINS OR ROOF EDGE.
3. ELEVATION ABBREVIATIONS AS FOLLOWS: **BOD** = BOTTOM OF DECK, **TOS** = TOP OF STEEL, **TOP** = TOP OF PARAPET.
4. OBJECT ABBREVIATIONS AS FOLLOWS: **RD** = ROOF DRAIN, **RTU** = ROOFTOP UNIT, **RH** = ROOF HATCH.
5. PROVIDE ALL ROOFING DETAILS BY MANUFACTURERS WARRANTED SYSTEMS.
6. PROVIDE WALKWAY PADS AT ALL ROOF LADDERS AND AT ALL ROOFTOP EQUIPMENT WORKING AREAS.
7. PROVIDE CRICKETS AT ALL ROOFTOP EQUIPMENT TO FACILITATE DRAINAGE.

General Notes (Reflected Ceiling Plans):

1. ALL CEILING AND SOFFIT HEIGHTS ARE GIVEN ABOVE FINISHED FLOOR ELEVATION (EL. 0'-0").
2. GENERALLY ONLY CEILING MOUNTED FIXTURES ARE SHOWN ON THIS PLAN. COORDINATE WITH MEP PLANS FOR ADDITIONAL INFORMATION.
3. VERIFY LOCATIONS OF ALL CEILING ACCESS PANELS WITH MEP DRAWINGS. COORDINATE LOCATIONS OF ACCESS PANEL FIRE RATINGS MUST MATCH CEILING ASSEMBLY FIRE RATINGS.
4. LIGHTING FIXTURES TO BE CENTERED AND SPACED EQUALLY UNLESS NOTED OTHERWISE.
5. LIGHT FIXTURES ARE SHOWN FOR DIMENSIONAL PURPOSES ONLY COORDINATE WITH ELECTRICAL DRAWINGS FOR FIXTURE DESIGNATIONS.
6. IF PROJECT INCLUDES FIRE RATED CEILINGS, LIGHT FIXTURES LOCATED IN RATED CEILING ASSEMBLIES ARE TO BE TENTED OR OTHERWISE RATED TO MATCH THE CEILING.

General Notes (Exterior Elevations):

1. MATERIALS AND FINISHES INDICATED APPLY TO ALL SIMILAR ELEMENTS.
2. COORDINATE EXTERIOR LIGHTING FIXTURE TYPES AND LOCATIONS WITH ELECTRICAL DRAWINGS.

**Lee's Summit R7 District
Athletics Facilities**

Lee's Summit High School
400 SW Blue Parkway
Lee's Summit, MO 64063

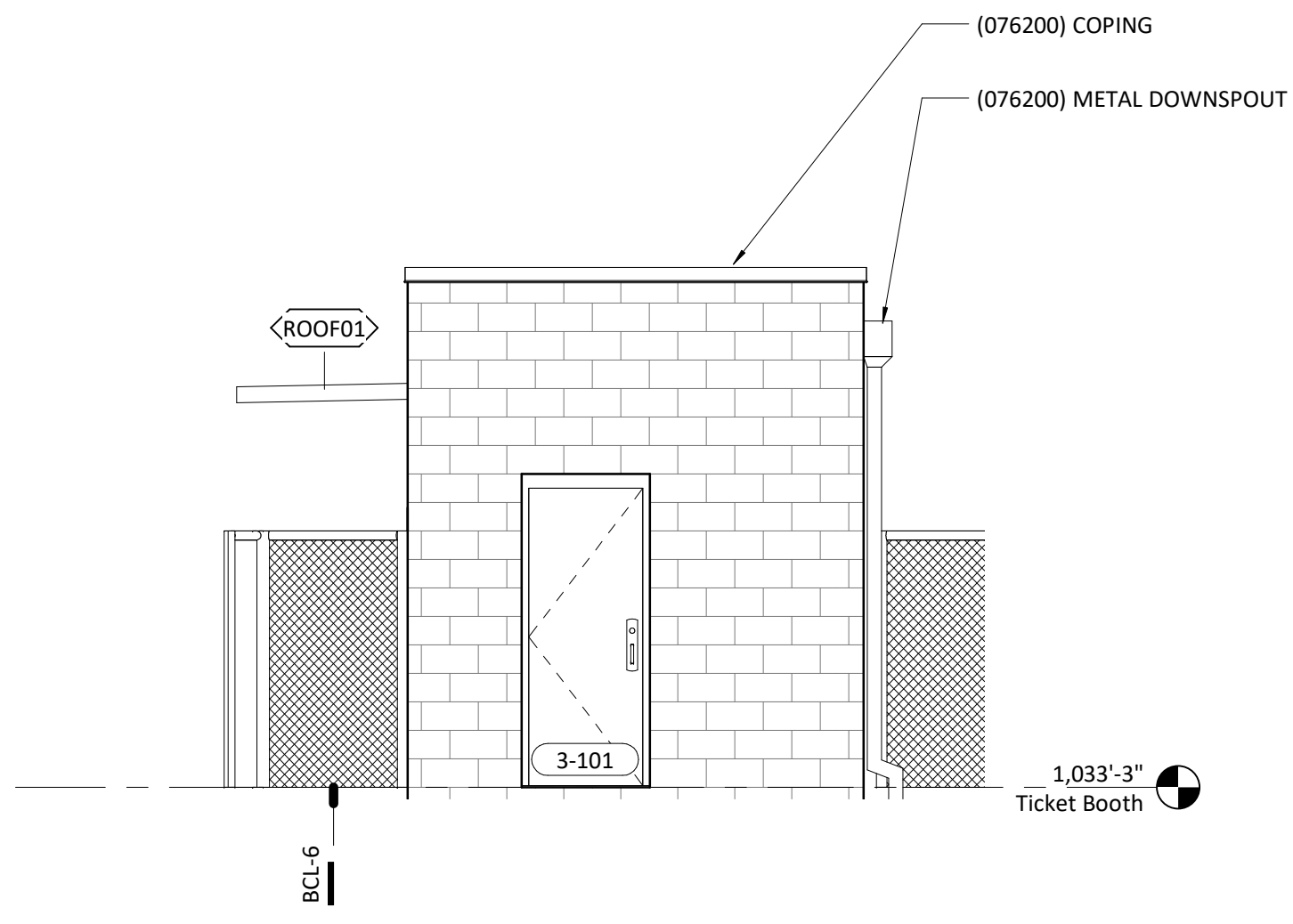
owner:
Lee's Summit R7 School District
301 NE Tudor Road
Lee's Summit, MO 64086

architect:
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4200 Pennsylvania Avenue
Kansas City, MO 64111
816.931.6655 voice
www.gouldevans.com

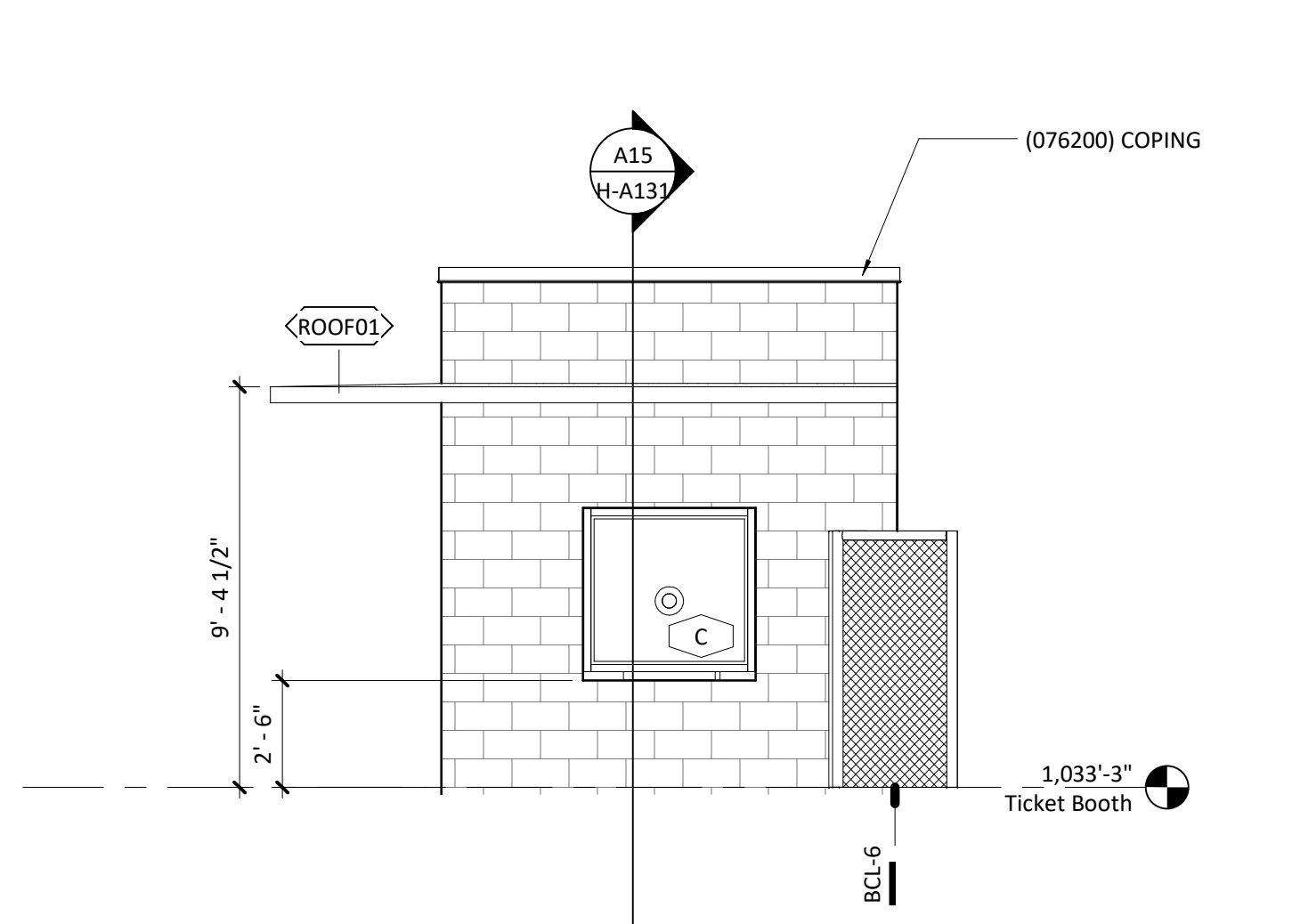
structural engineer:
Bob D. Campbell & Company, Inc.
4338 Belleview Avenue
Kansas City, MO 64111
816.331.4144

civil engineer:
Kaw Valley Engineering
14700 West 124th Terrace
Lenexa, KS 66215
913.485.0318

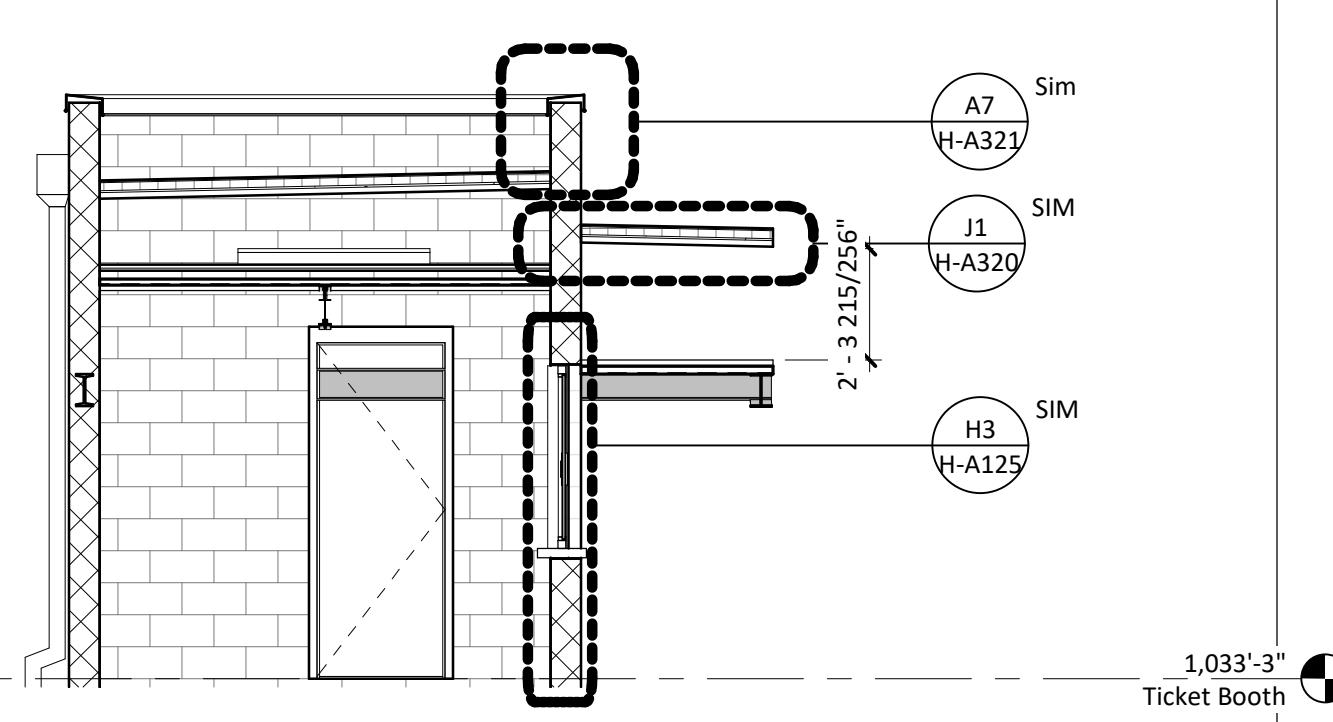
mechanical/electrical engineer:
Henderson Engineers
8345 Lenexa Drive | Suite 300
Lenexa, KS 66214
816.742.5000



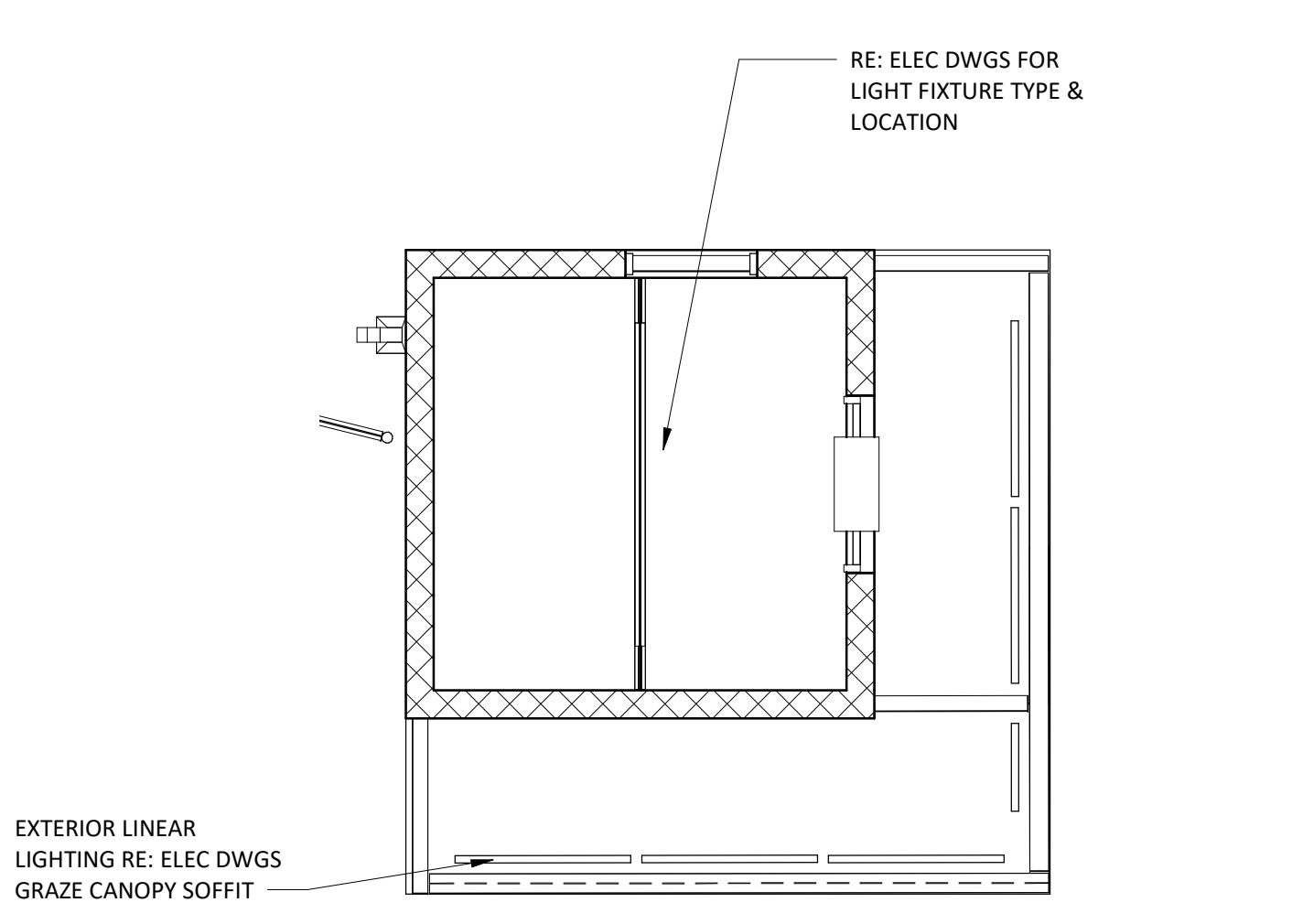
North Elev. Visitor Ticket Booth E7
1/4" = 1'-0"



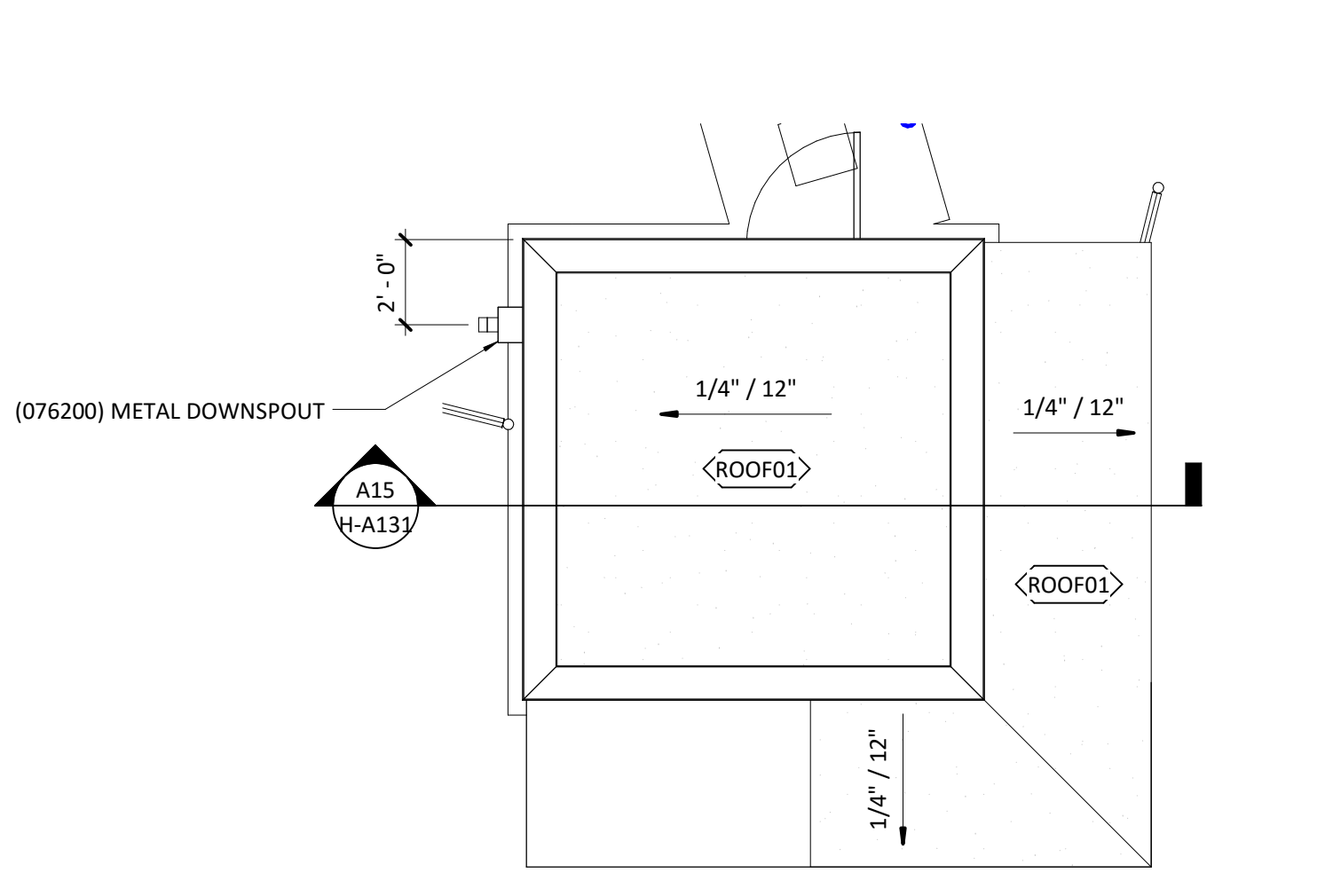
East Elev. Visitor Ticket Booth E3
1/4" = 1'-0"



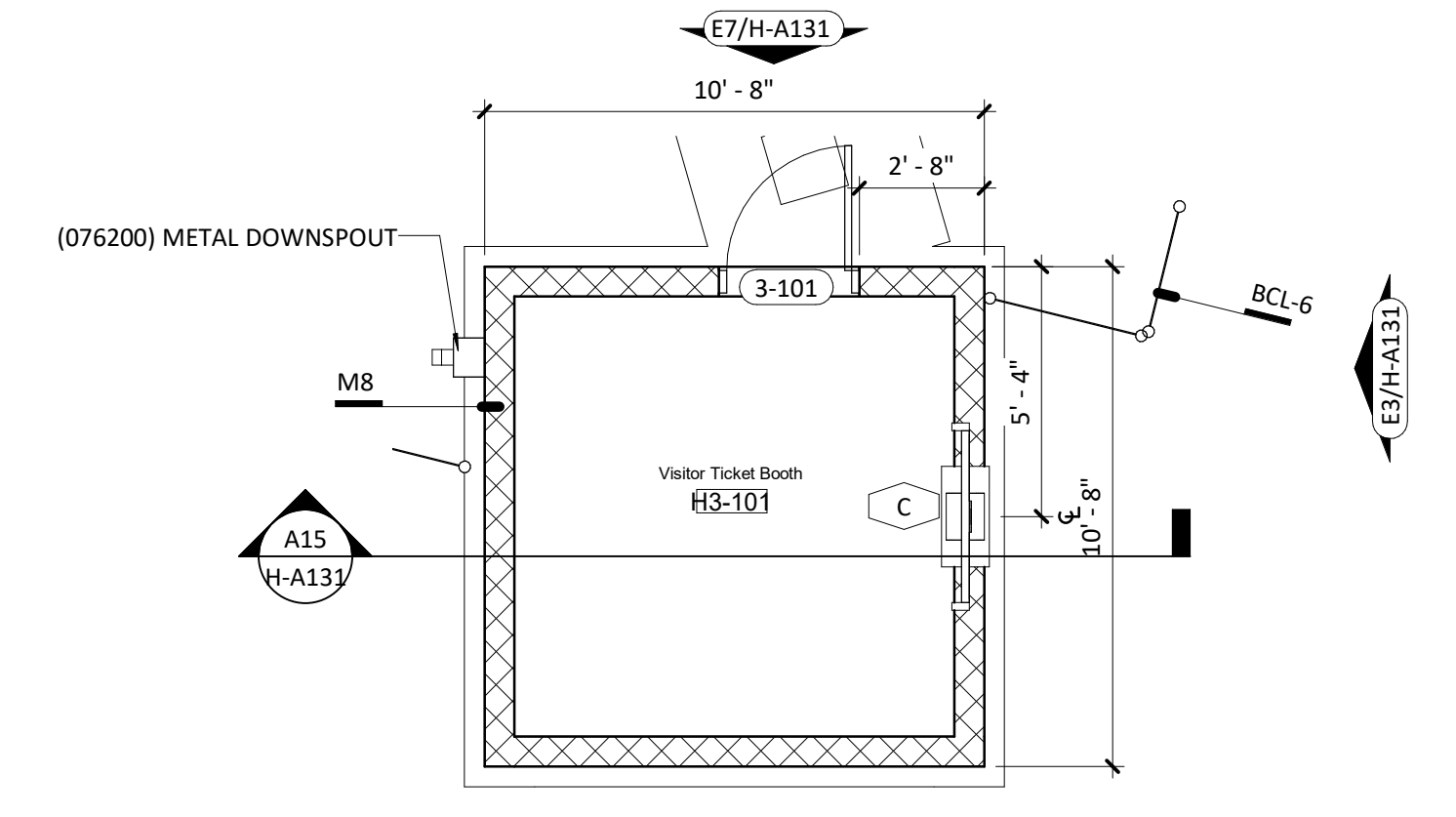
Building Section - Visitor Ticket Booth A15
1/4" = 1'-0"



RCP - Visitor Ticket Booth A11
1/4" = 1'-0"



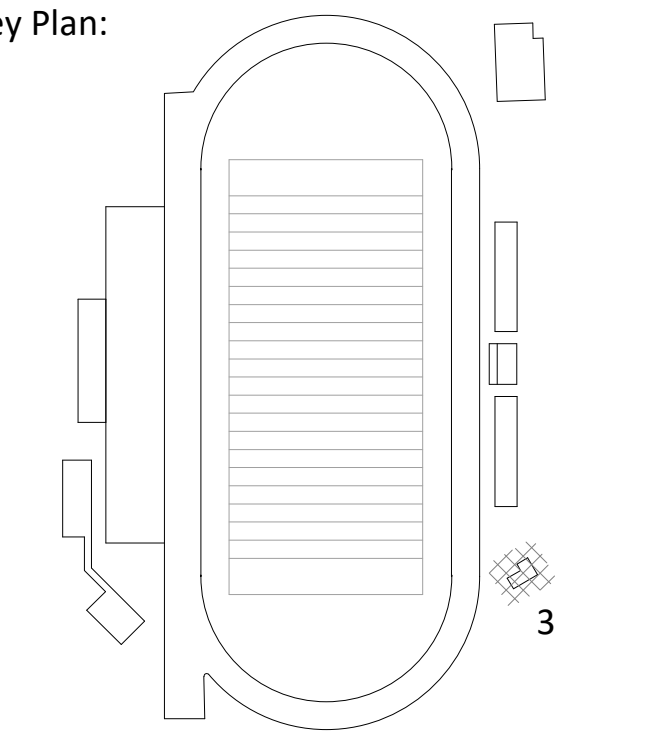
Roof Plan - Visitor Ticket Booth A7
1/4" = 1'-0"



Level 1 Plan - Visitor Ticket Booth A3
1/4" = 1'-0"

**NOTE: ALL VISITOR
TICKET BOOTH
WORK IS BID
ALTERNATE H1**

Key Plan:



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Architectural Corporation
Jay Browning
Missouri License No. 2009022779 Date: 09/28/2020
Architect License No. A-2009022779

REVISIONS

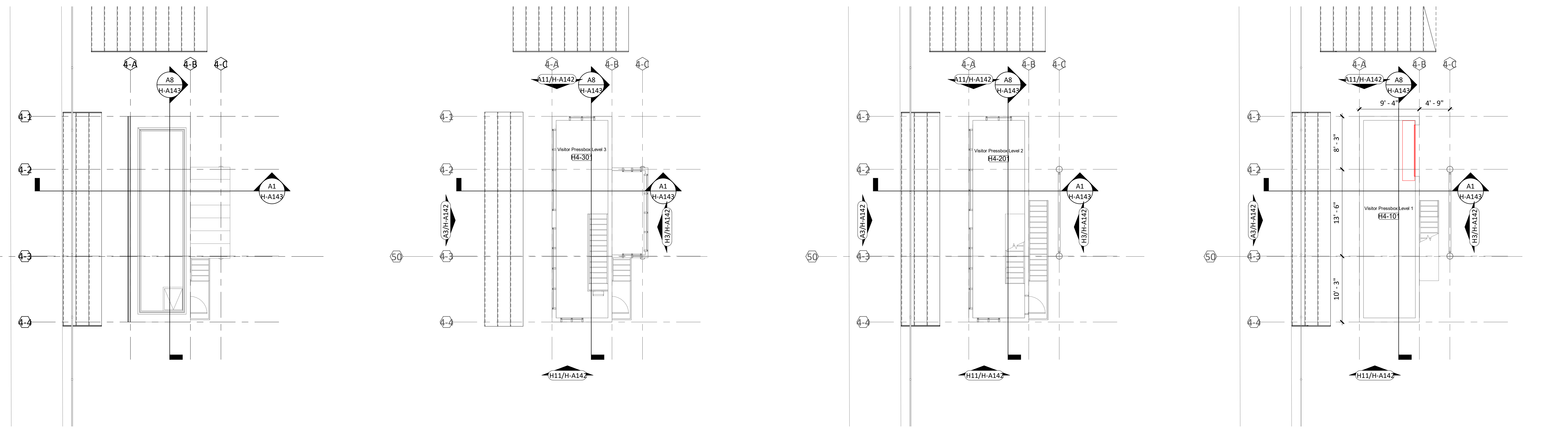
Number	DESCRIPTION	DATE
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PROJECT NO: 0119-0101
DATE: September 28, 2020

Visitor Ticket Booth -
Plans, Exterior
Elevations, & Sections

H-A131

BID SET



Roof Plan - Visitor Press Box **A15** 1/8" = 1'-0"
 Level 3 - Visitor Press Box **A11** 1/8" = 1'-0"
 Level 2 - Visitor Press Box **A7** 1/8" = 1'-0"
 Level 1 Plan - Visitor Press Box **A3** 1/8" = 1'-0"

General Notes (Floor Plans):

1. ALL WALL TYPES TO BE M6 UNLESS OTHERWISE NOTED.
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9. CONTRACTOR TO PROVIDE 4'-0" HIGH PLYWOOD BACKER BOARD IN ALL MECHANICAL AND ELECTRICAL ROOMS MOUNTED 3'-6" A.F.F. FOR PERIMETER OF ROOM.

General Notes (Roof Plan)

1. REFER TO EXTERIOR ENCLOSURE TYPES FOR ROOF DETAILS.
2. MINIMUM SLOPES ON ROOF SHALL BE 1/4" PER FOOT IN DIRECTION OF DRAINS OR ROOF EDGE.
3. ELEVATION ABBREVIATIONS AS FOLLOWS: **BOD** = BOTTOM OF DECK, **TOS** = TOP OF STEEL, **TOP** = TOP OF PARAPET.
4. OBJECT ABBREVIATIONS AS FOLLOWS: **RD** = ROOF DRAIN, **RTU** = ROOFTOP UNIT, **RH** = ROOF HATCH.
5. PROVIDE ALL ROOFING DETAILS BY MANUFACTURERS WARRANTED SYSTEMS.
6. PROVIDE WALKWAY PADS AT ALL ROOF LADDERS AND AT ALL ROOFTOP EQUIPMENT WORKING AREAS.
7. PROVIDE CRICKETS AT ALL ROOFTOP EQUIPMENT TO FACILITATE DRAINAGE.

General Notes (Exterior Elevations):

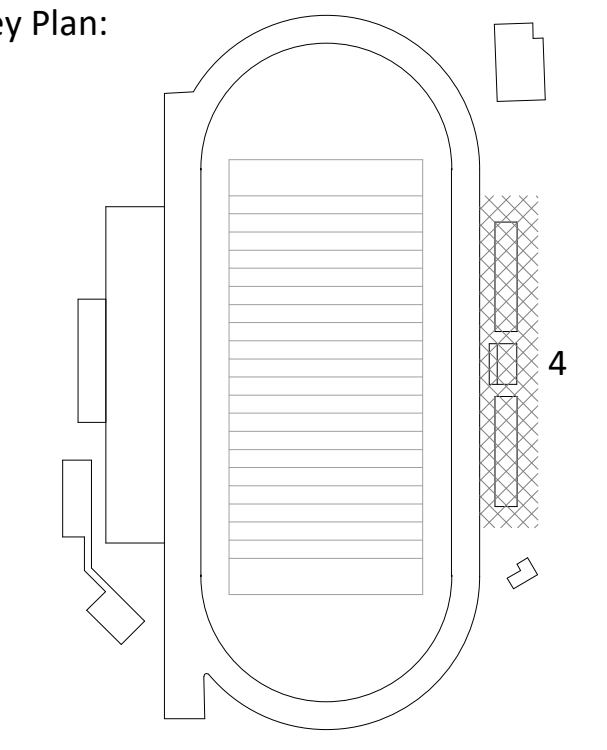
1. MATERIALS AND FINISHES INDICATED APPLY TO ALL SIMILAR ELEMENTS.
2. COORDINATE EXTERIOR LIGHTING FIXTURE TYPES AND LOCATIONS WITH ELECTRICAL DRAWINGS.

General Notes (Building Sections):

1. BUILDING SECTIONS SHOWN FOR ORIENTATION AND CONTEXT. REFER TO WALL SECTIONS FOR CONSTRUCTION DETAILING AND REFERENCES.

NOTE: ALL VISITOR PRESS BOX WORK IS BID ALTERNATE H5

Key Plan:



**Lee's Summit R7 District
Athletics Facilities**

Lee's Summit High School
400 SW Blue Parkway
Lee's Summit, MO 64063

owner:
Lee's Summit R7 School District
301 NE Tudor Road
Lee's Summit, MO 64086

architect:
Gould Evans
4200 Pennsylvania Avenue
Kansas City, MO 64111
816.931.6655 voice
www.gouldevans.com

structural engineer:
Bob D. Campbell & Company, Inc.
4338 Bellevue Avenue
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mechanical/electrical engineer:
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Architectural Corporation
Missouri License No. 2018022591 Date: 09/28/2020
Jay Browning
Architect License No. A-2009027279

REVISIONS		
Number	DESCRIPTION	DATE

PROJECT NO: 0119-0101
DATE: September 28, 2020

Visitor Press Box -
Plans, Exterior
Elevations, & Sections

H-A141

BID SET

General Notes (Exterior Elevations):

1. MATERIALS AND FINISHES INDICATED APPLY TO ALL SIMILAR ELEMENTS.
2. COORDINATE EXTERIOR LIGHTING FIXTURE TYPES AND LOCATIONS WITH ELECTRICAL DRAWINGS.

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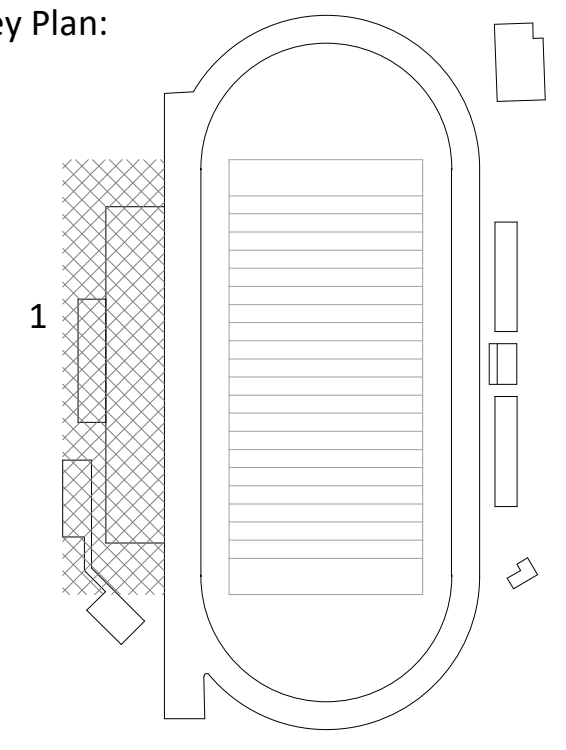
Architectural Corporation
Jay Browning
Missouri License No. 2018022591
Date: 09/28/2020
Architect License No. A-2009027279

REVISIONS

Number	DESCRIPTION	DATE

NOTE: ALL VISITOR PRESS BOX WORK IS BID ALTERNATE H5

Key Plan:

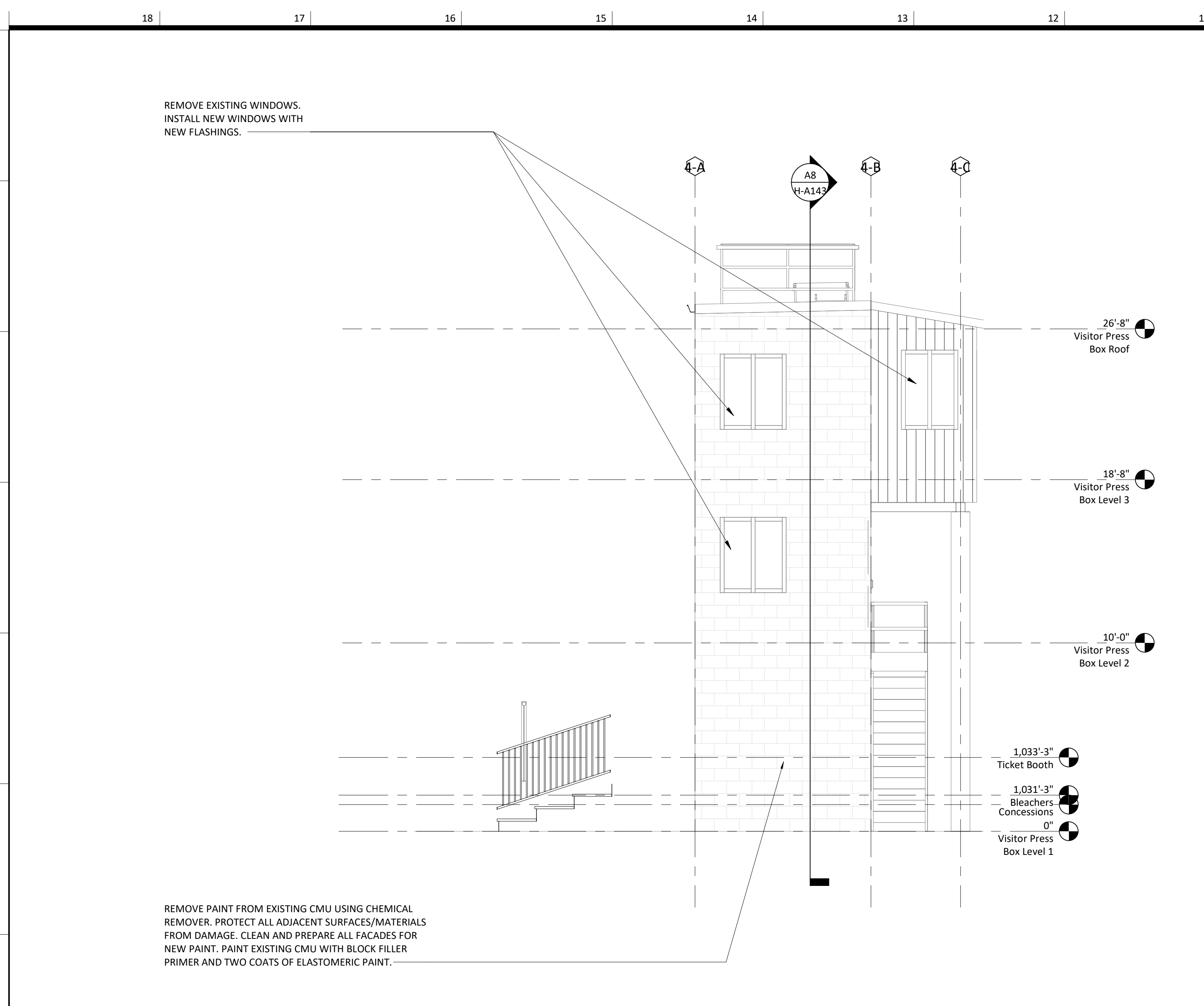


PROJECT NO: 0119-0101
DATE: September 28, 2020

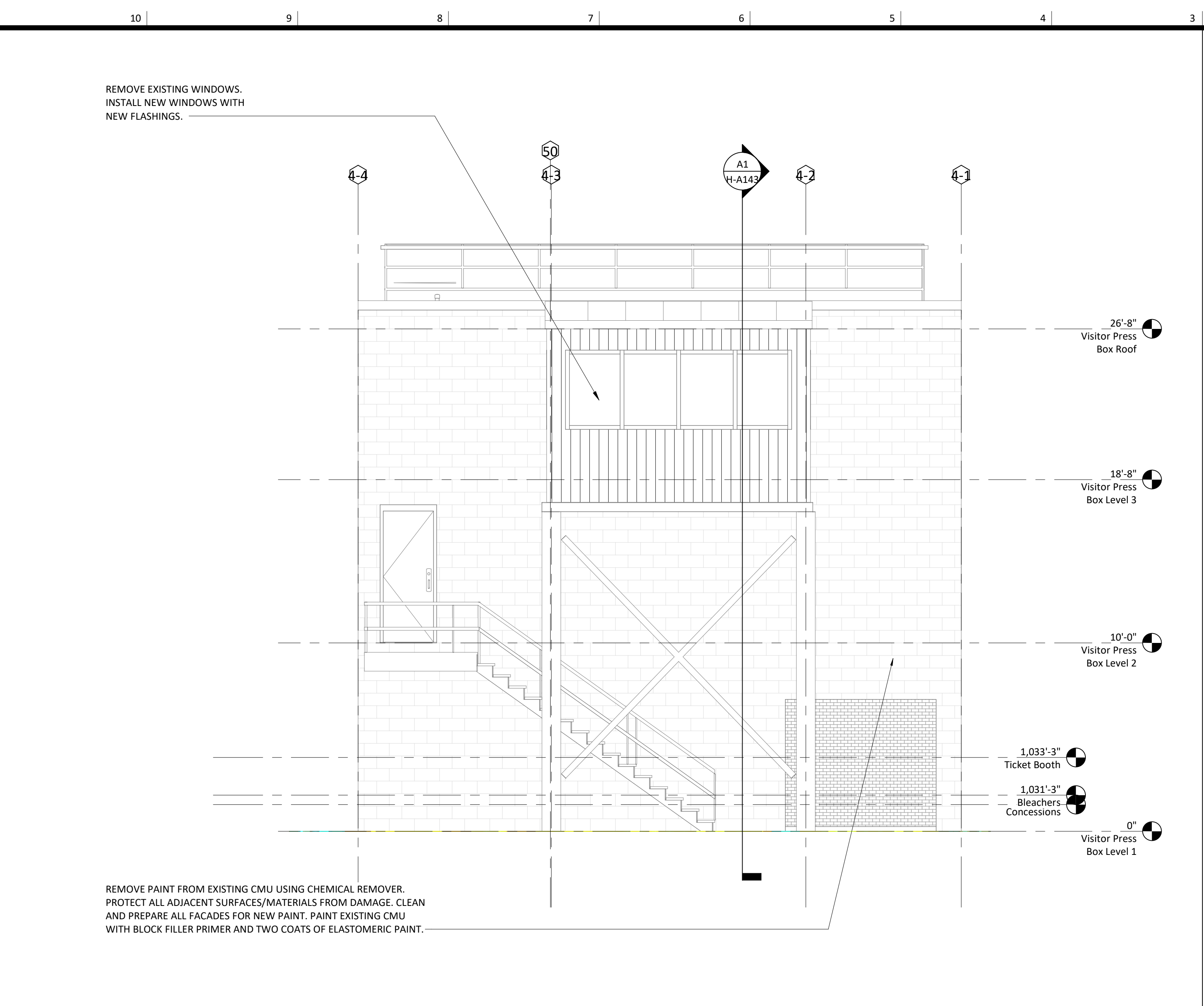
Visitor Press Box -
Exterior Elevations

H-A142

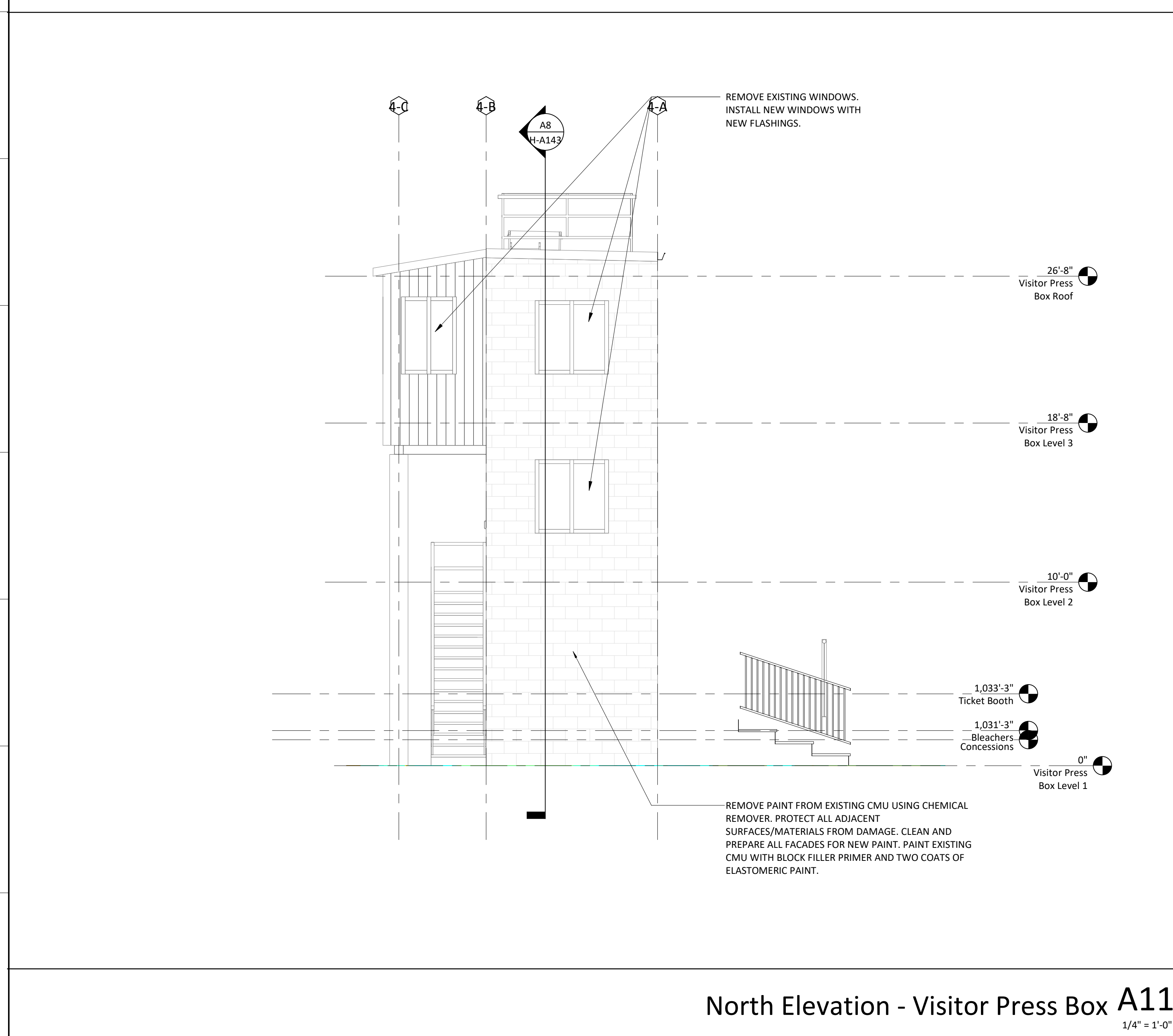
BID SET



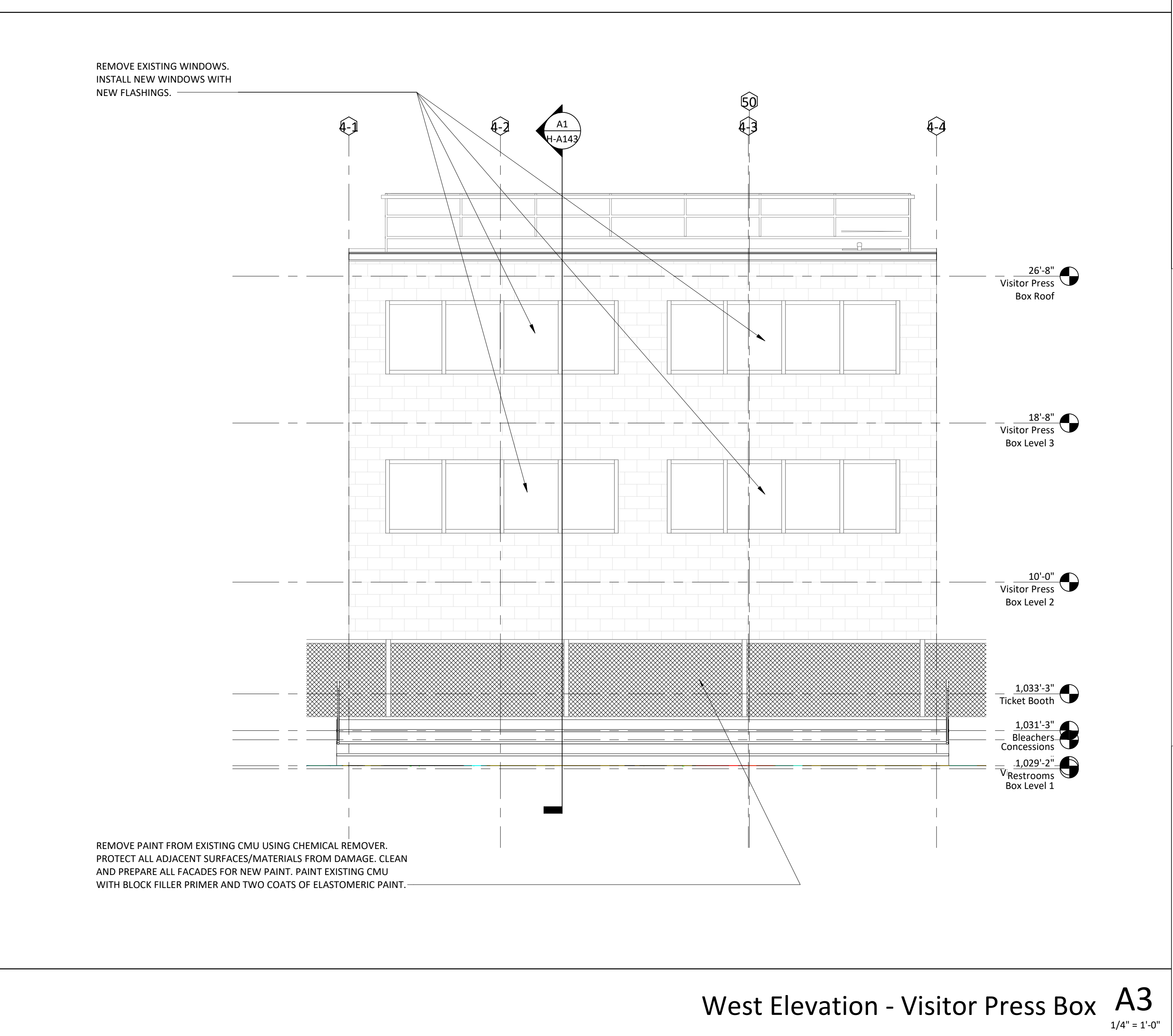
South Elevation - Visitor Press Box H11
1/4" = 1'-0"



East Elevation - Visitor Press Box H3
1/4" = 1'-0"



North Elevation - Visitor Press Box A11
1/4" = 1'-0"



West Elevation - Visitor Press Box A3
1/4" = 1'-0"

**Lee's Summit R7 District
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REVISIONS

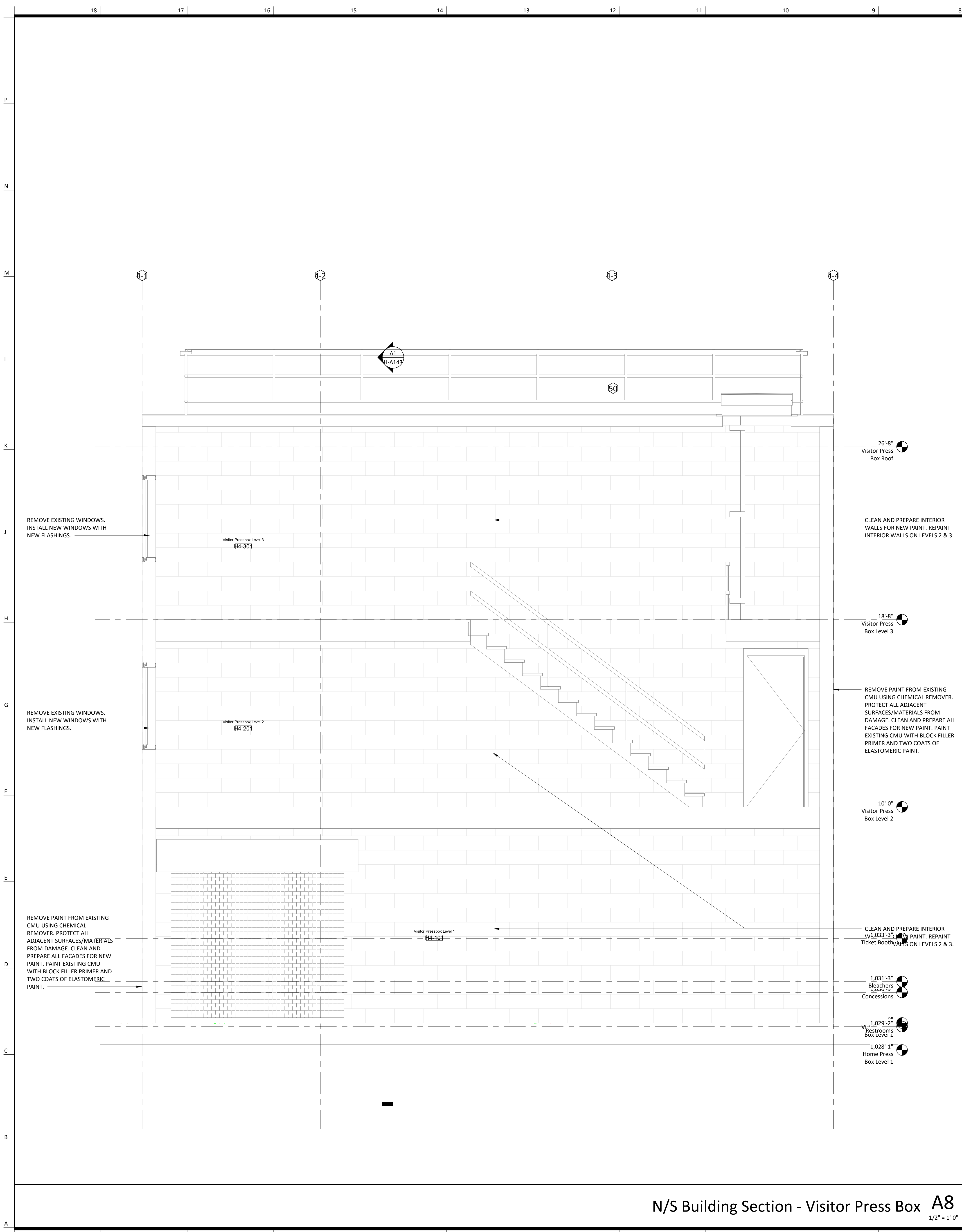
Number	DESCRIPTION	DATE

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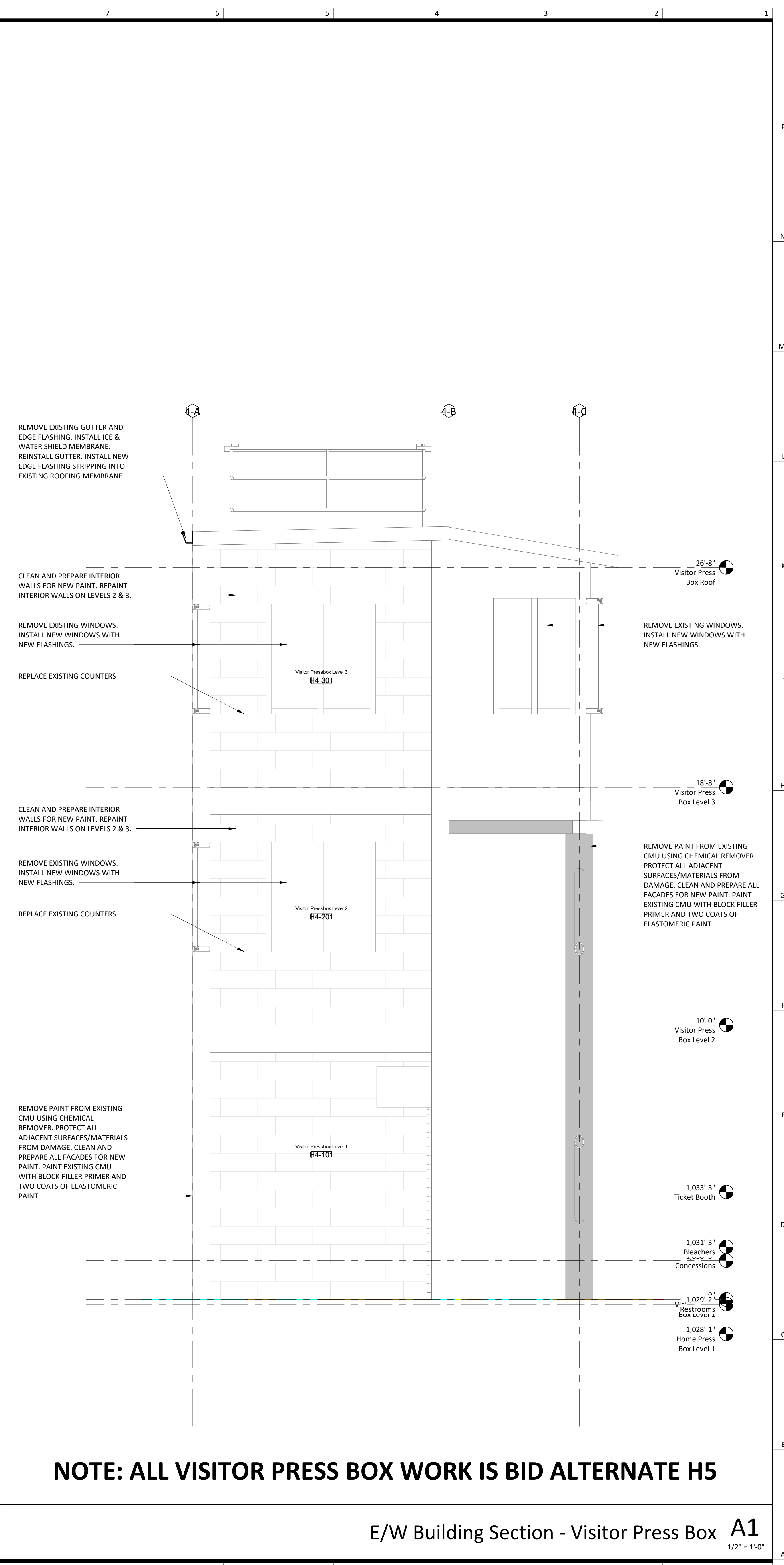
Visitor Press Box -
Building Sections

H-A143

BID SET



N/S Building Section - Visitor Press Box **A8**
1/2" = 1'-0"



E/W Building Section - Visitor Press Box **A1**
1/2" = 1'-0"

NOTE: ALL VISITOR PRESS BOX WORK IS BID ALTERNATE H5

**Lee's Summit R7 District
Athletics Facilities**

Lee's Summit High School
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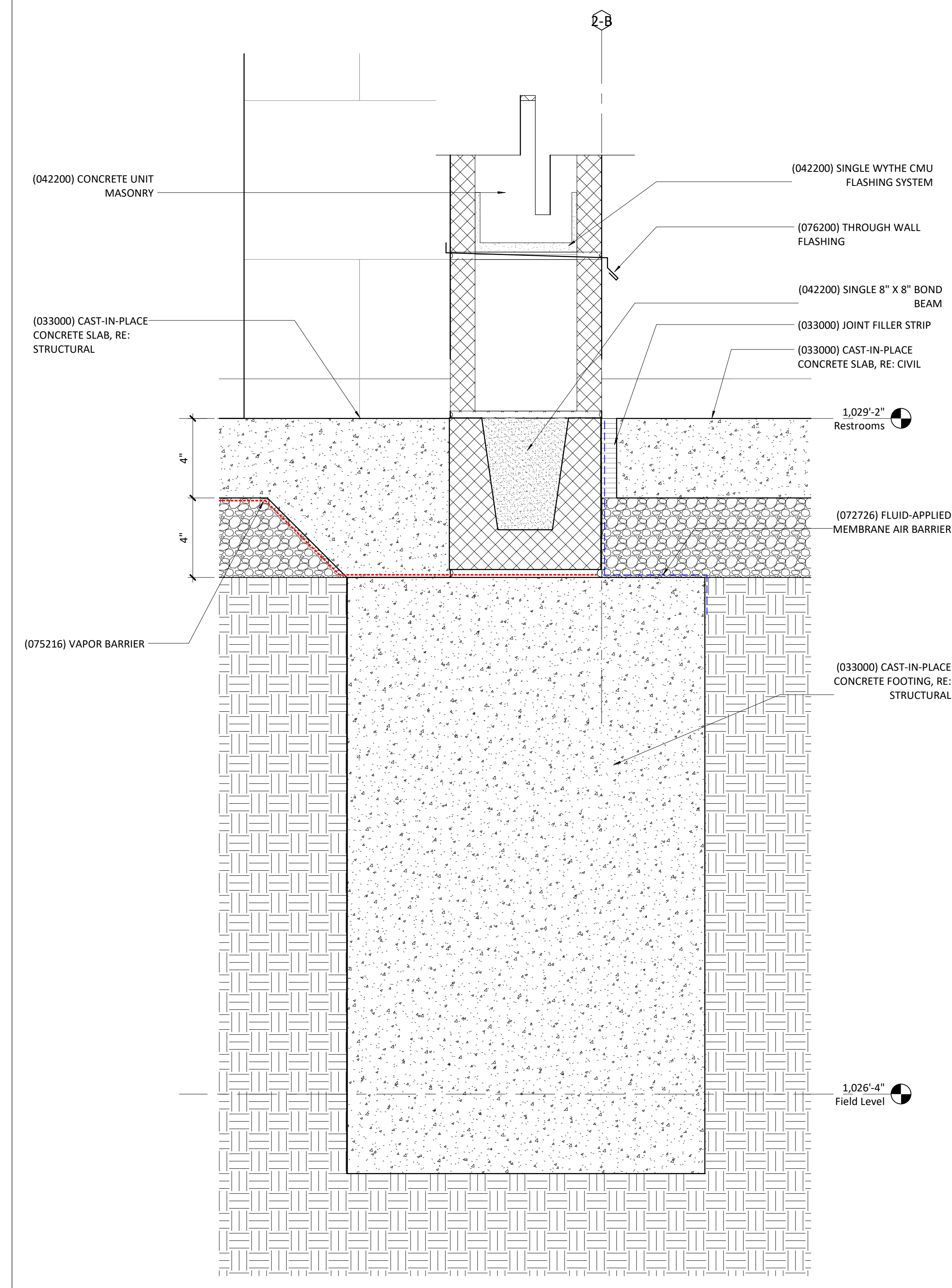
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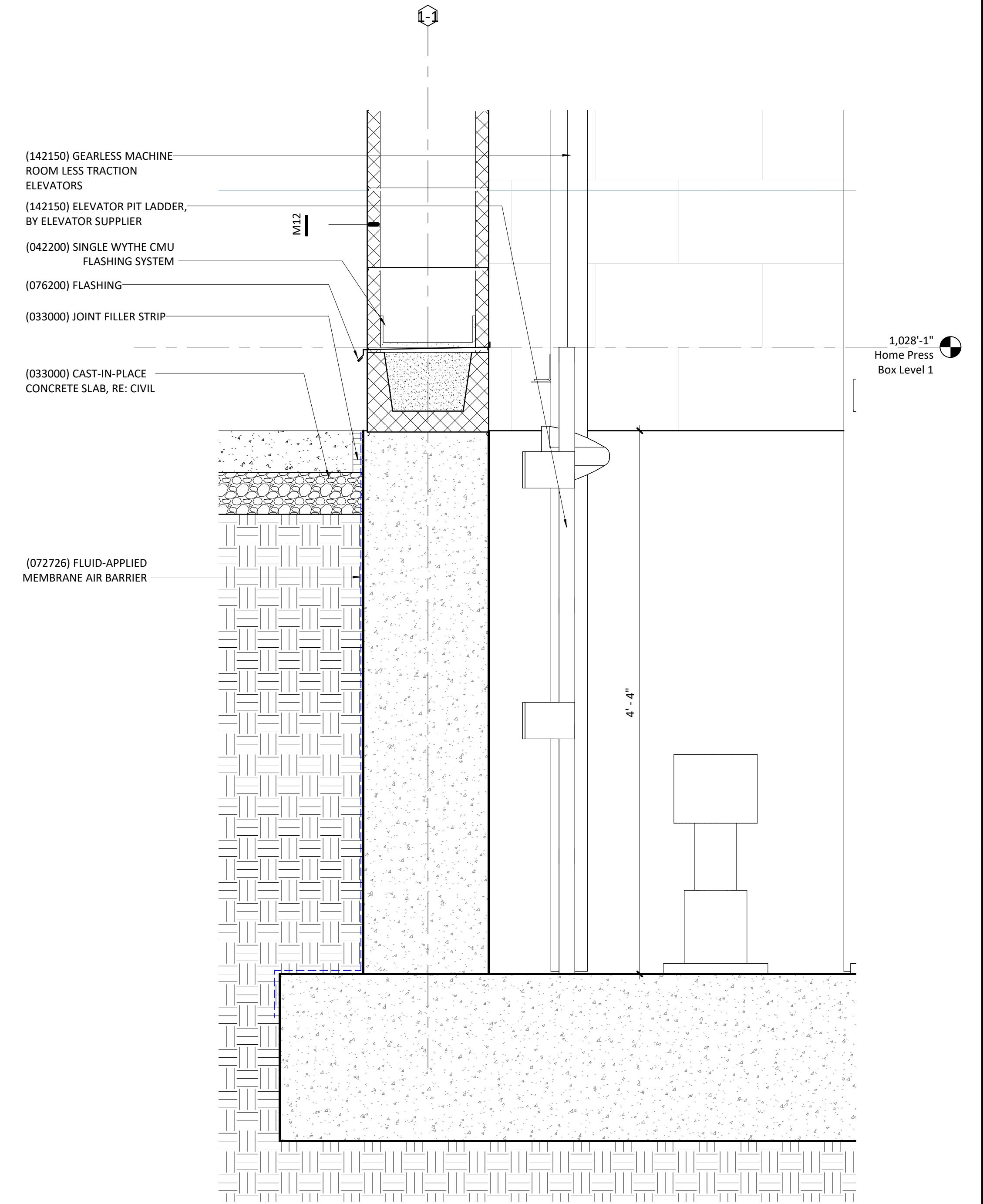
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mechanical/electrical engineer:
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Lenexa, KS 66214
816.742.5000



Typical CMU Wall Section Detail @ Foundation **A7**
3" = 1'-0"



NS Building Section - Home Press Box - Callout 1 - Callout 2 **A1**
1 1/2" = 1'-0"

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Architectural Corporation
Missouri License No. 2018022591
Jay Browning Date: 09/28/2020
Architect License No. A-2009027279

REVISIONS

Number	DESCRIPTION	DATE

PROJECT NO: 0119-0101
DATE: September 28, 2020

Exterior Section Details
- Foundation

H-A300

BID SET

**Lee's Summit R7 District
Athletics Facilities**

Lee's Summit High School
400 SW Blue Parkway
Lee's Summit, MO 64063

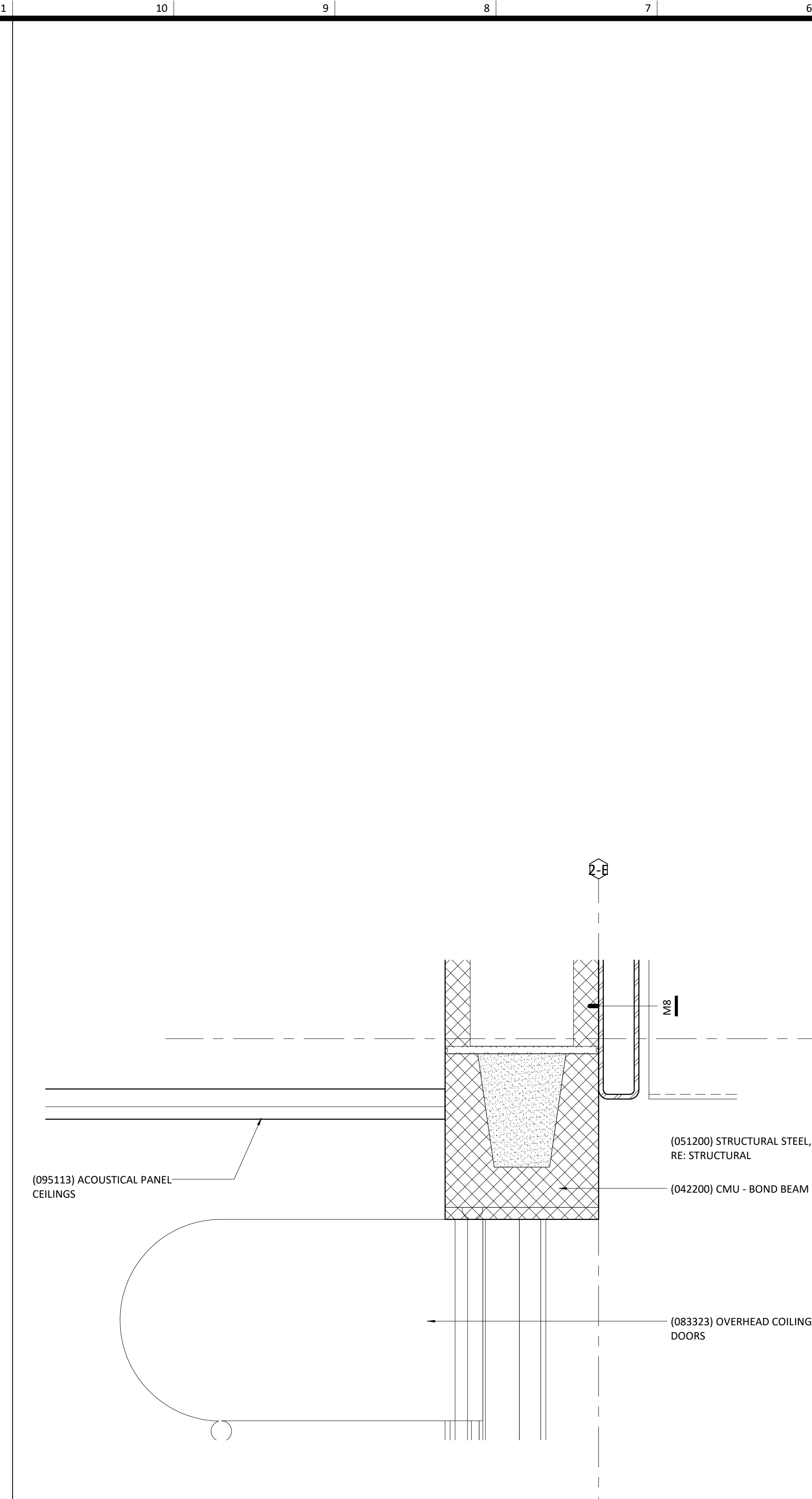
owner:
Lee's Summit R7 School District
301 NE Tudor Road
Lee's Summit, MO 64086

architect:
Gould Evans
4200 Pennsylvania Avenue
Kansas City, MO 64111
816.931.6655 voice
www.gouldevans.com

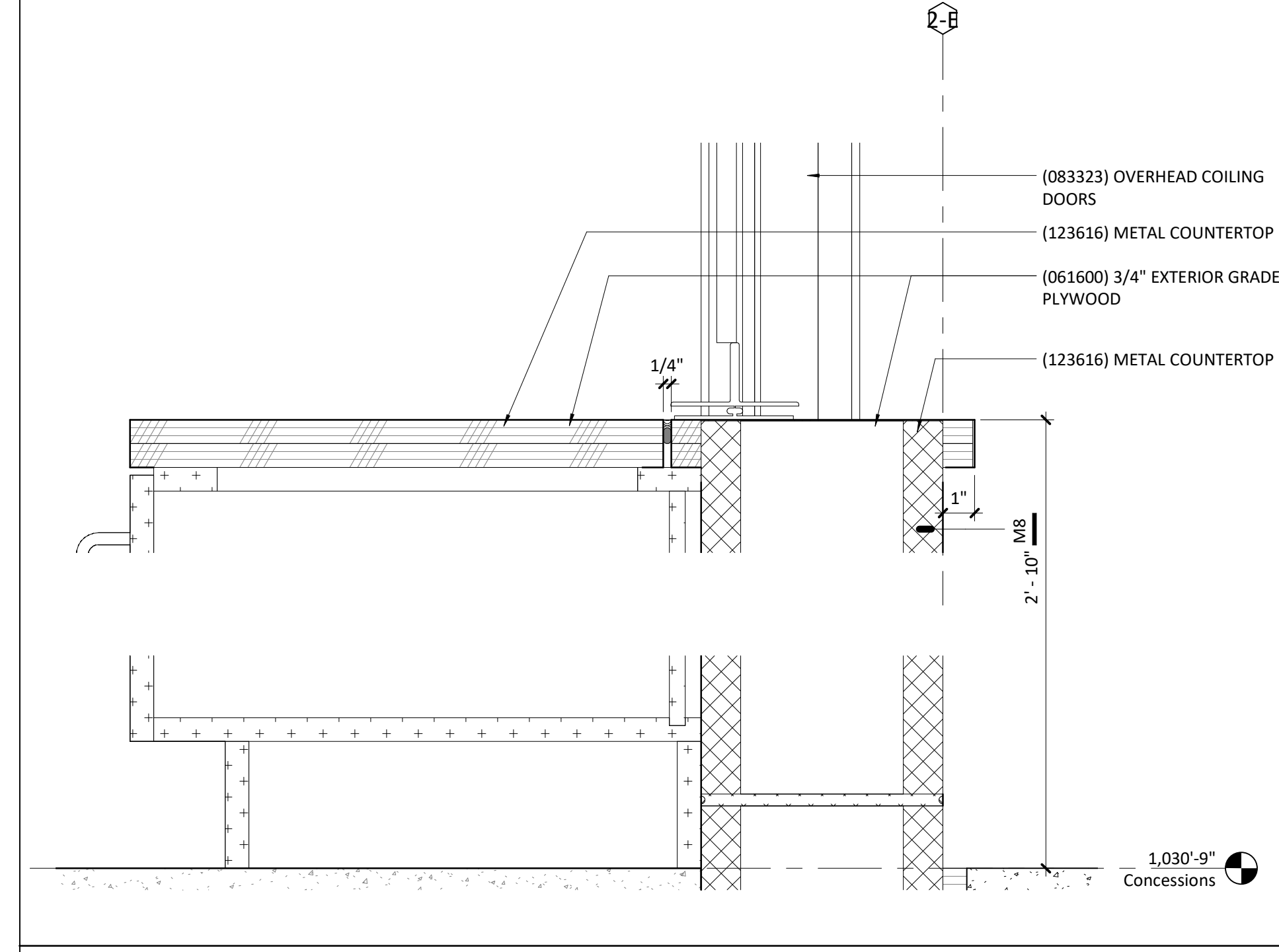
structural engineer:
Bob D. Campbell & Company, Inc.
4338 Bellevue Avenue
Kansas City, MO 64111
816.531.4144

civil engineer:
Kaw Valley Engineering
14700 West 114th Terrace
Lenexa, KS 66215
913.485.0318

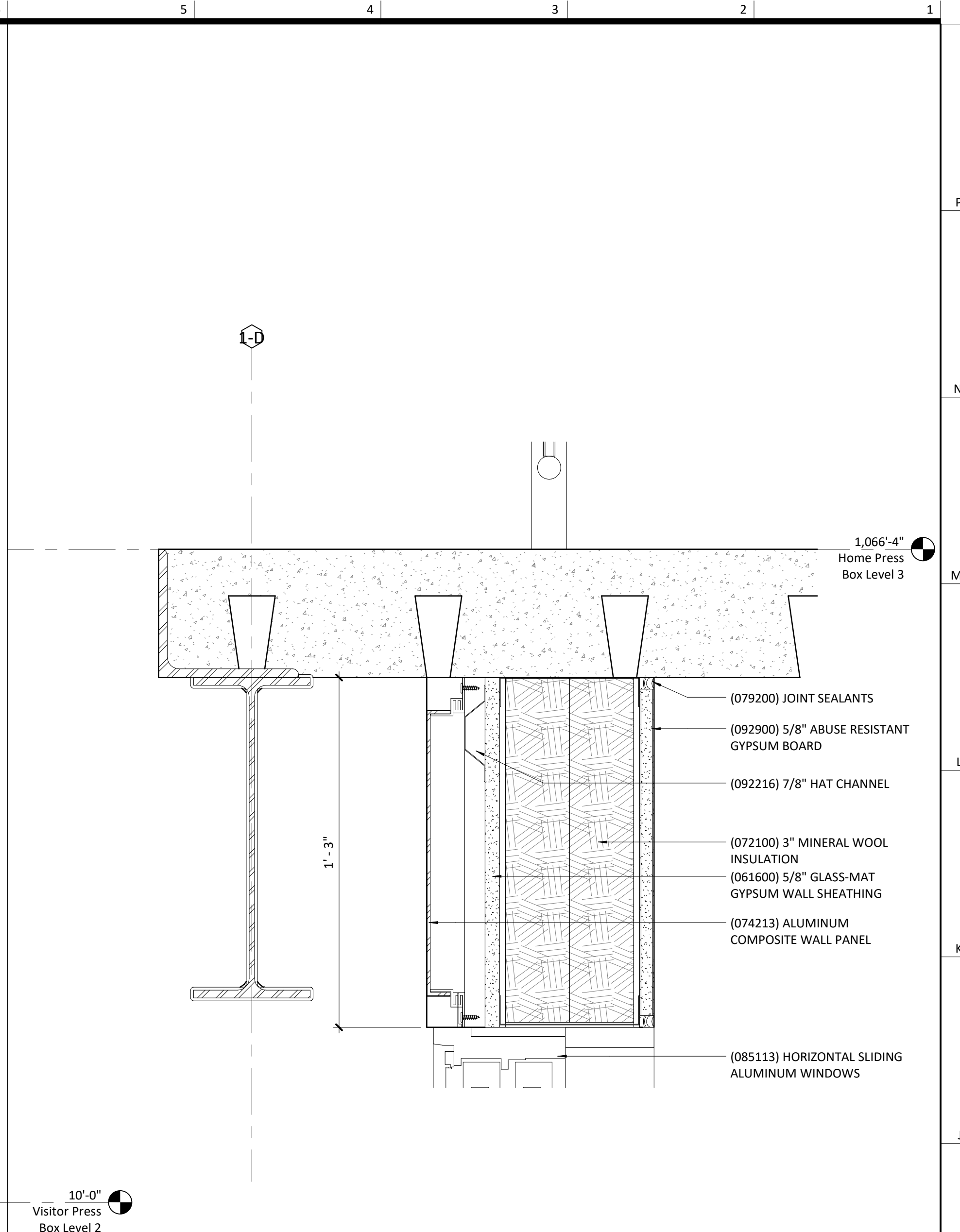
mechanical/electrical engineer:
Henderson Engineers
8345 Lenexa Drive | Suite 300
Lenexa, KS 66214
816.742.5000



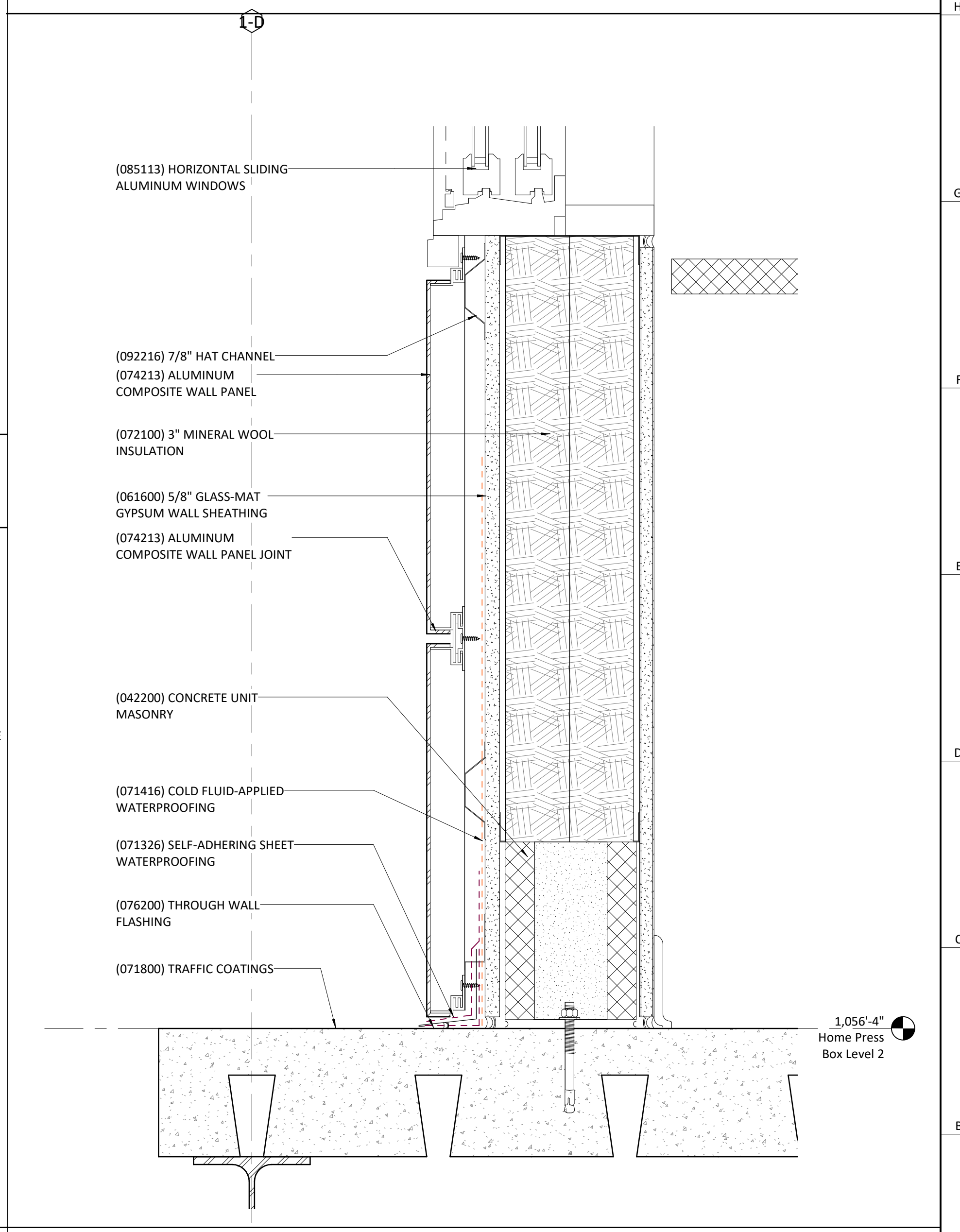
Concessions Window Head E6
3" = 1'-0"



Wall Section - East Side @ Concessions Window A6
3" = 1'-0"

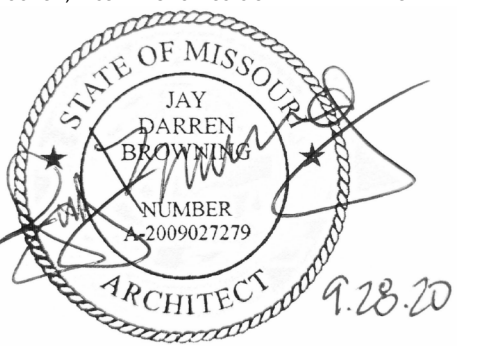


Detail Section - East Wall Press Box -@ Window Head H1
3" = 1'-0"



Detail Section - East Wall Press Box @ Window Sill A1
3" = 1'-0"

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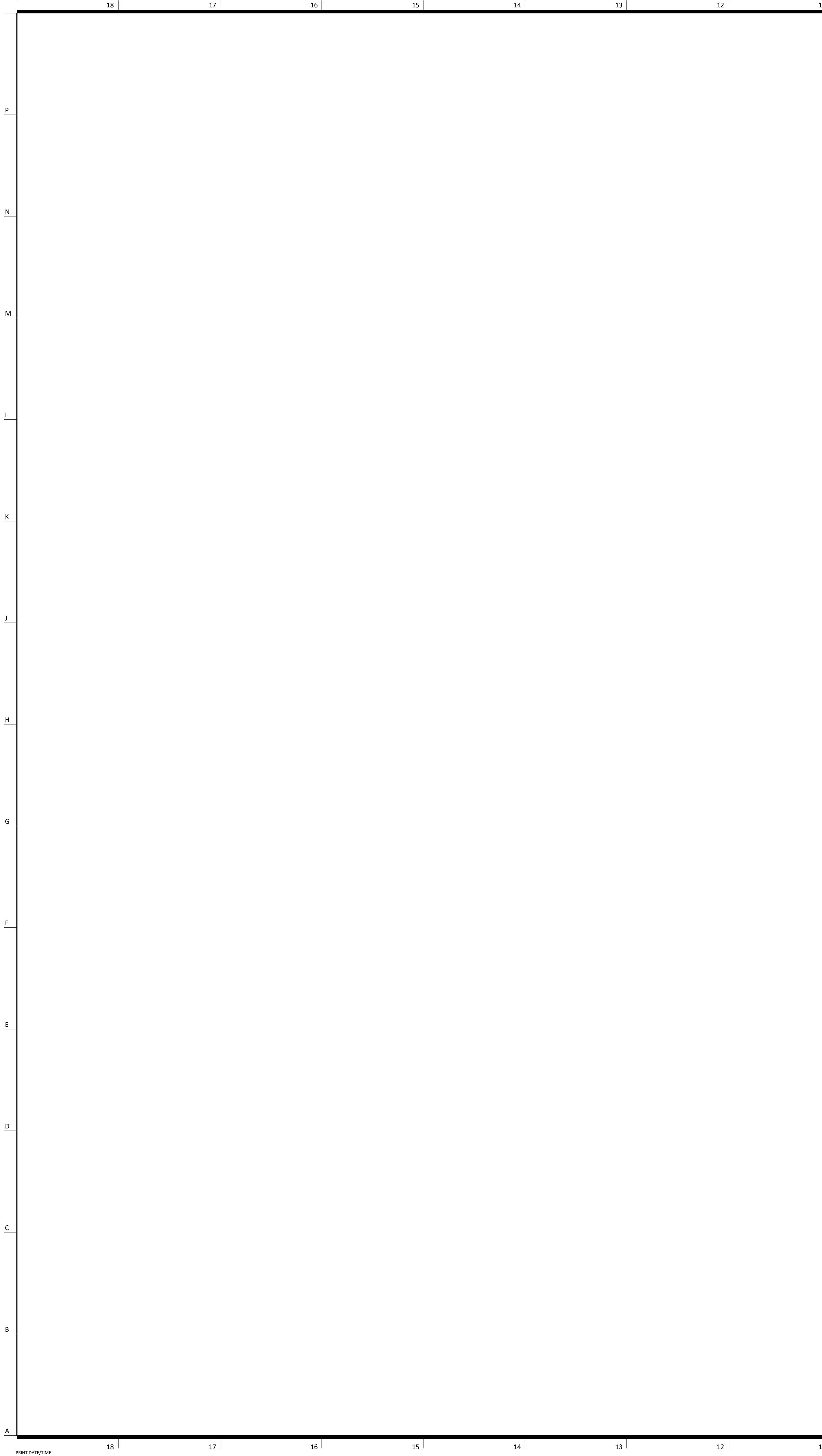
Number	DESCRIPTION	DATE

PROJECT NO: 0119-0101
DATE: September 28, 2020

Exterior Section Details
- Intermediate

H-A310

BID SET



**Lee's Summit R7 District
Athletics Facilities**

Lee's Summit High School
400 SW Blue Parkway
Lee's Summit, MO 64063

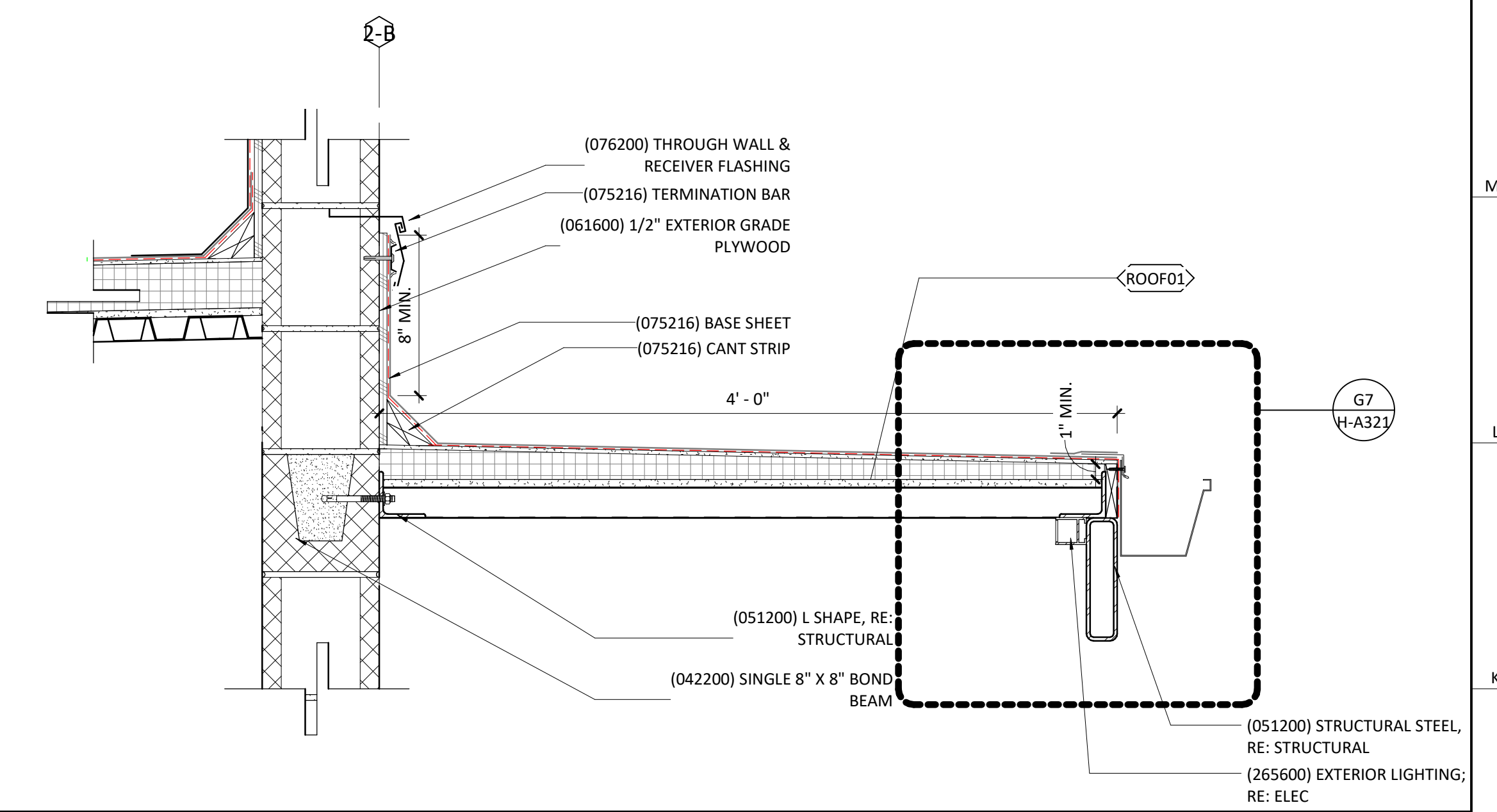
owner:
Lee's Summit R7 School District
301 NE Tudor Road
Lee's Summit, MO 64086

architect:
Gould Evans
4200 Pennsylvania Avenue
Kansas City, MO 64111
816.931.6655 voice
www.gouldevans.com

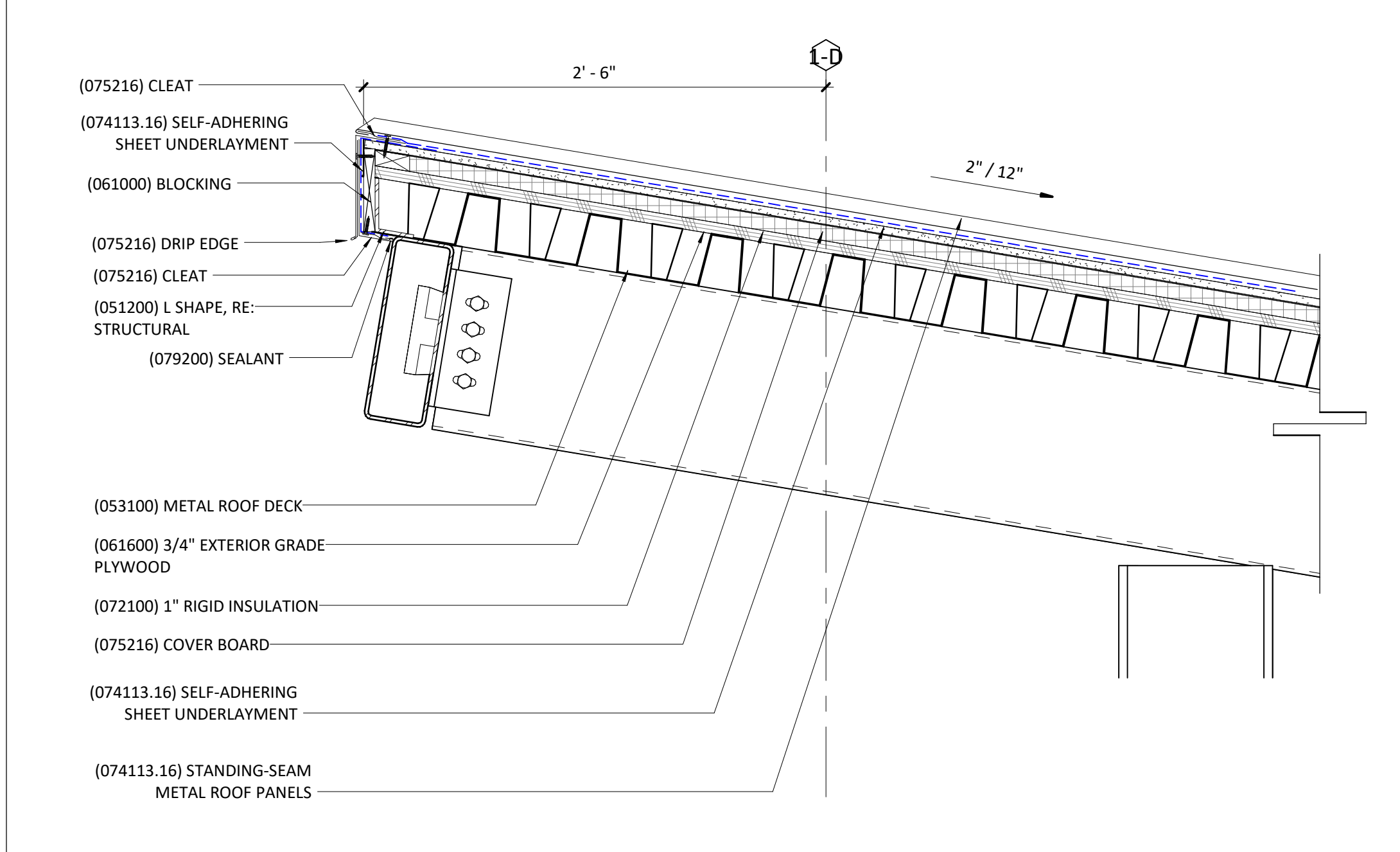
structural engineer:
Bob D. Campbell & Company, Inc.
4338 Belleview Avenue
Kansas City, MO 64111
816.531.4144

civil engineer:
Kaw Valley Engineering
14700 West 134th Terrace
Lenexa, KS 66215
913.485.0318

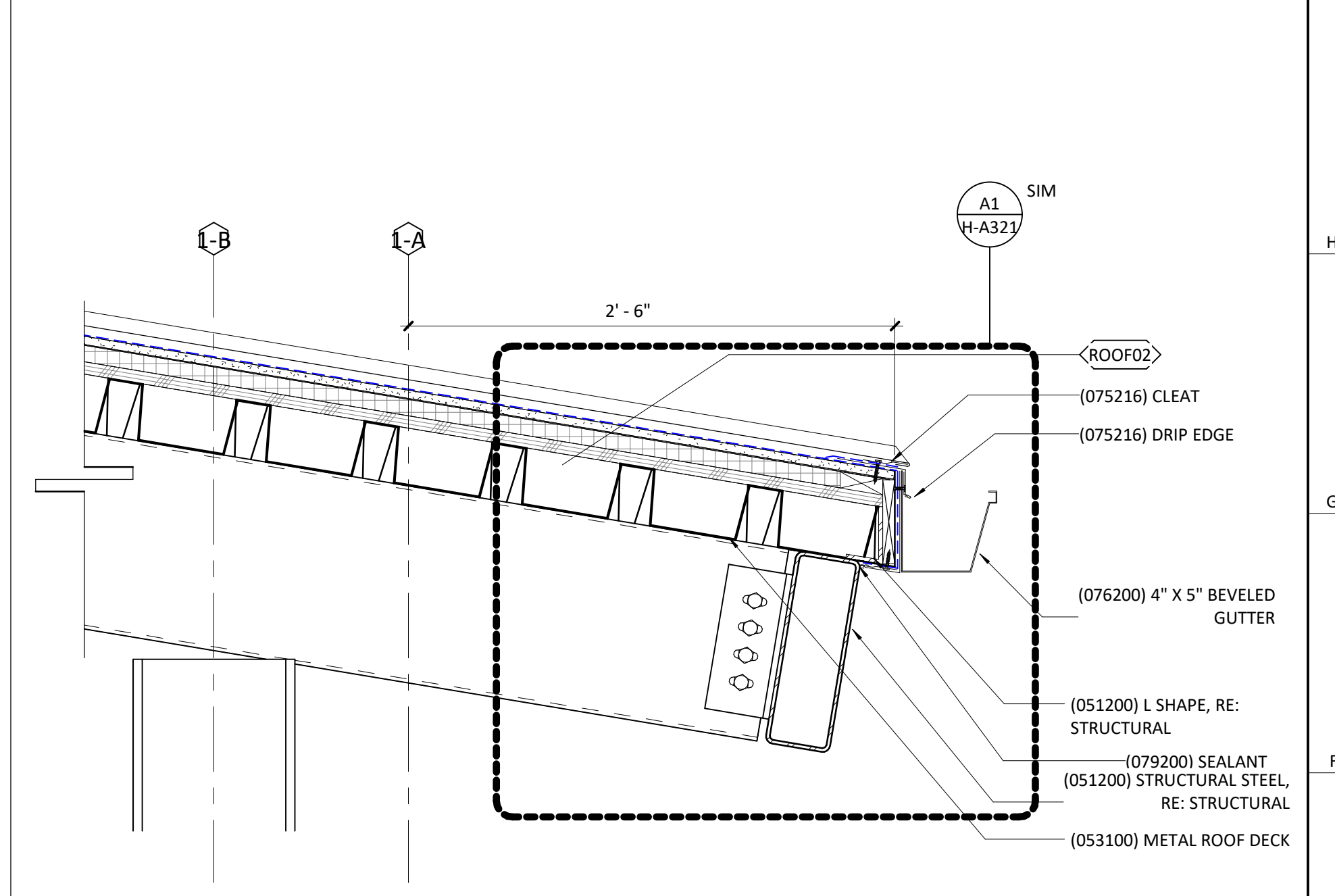
mechanical/electrical engineer:
Henderson Engineers
8345 Lenexa Drive | Suite 300
Lenexa, KS 66214
816.742.5000



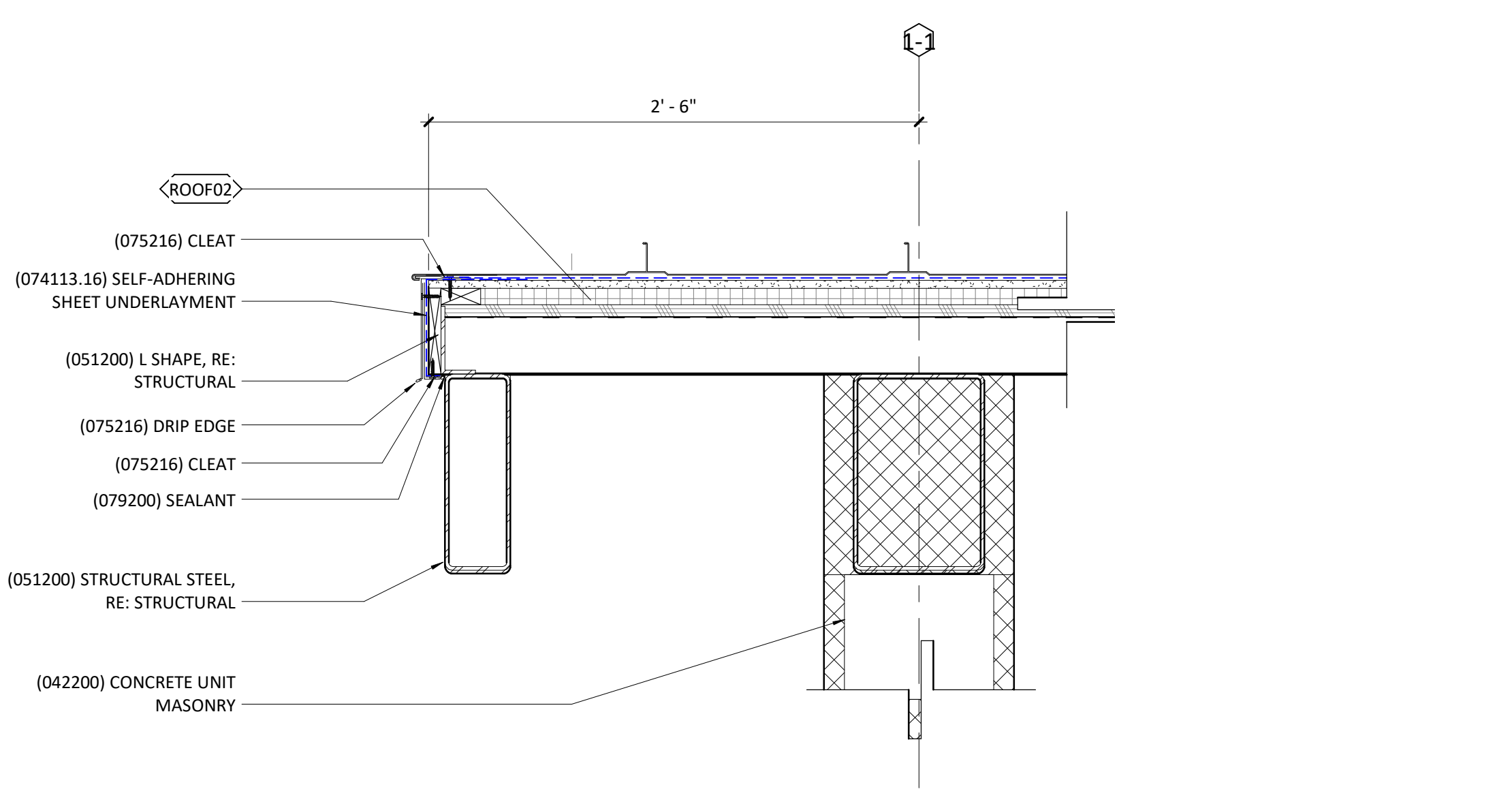
Section Detail @ Parapet J1
1 1/2" = 1'-0"



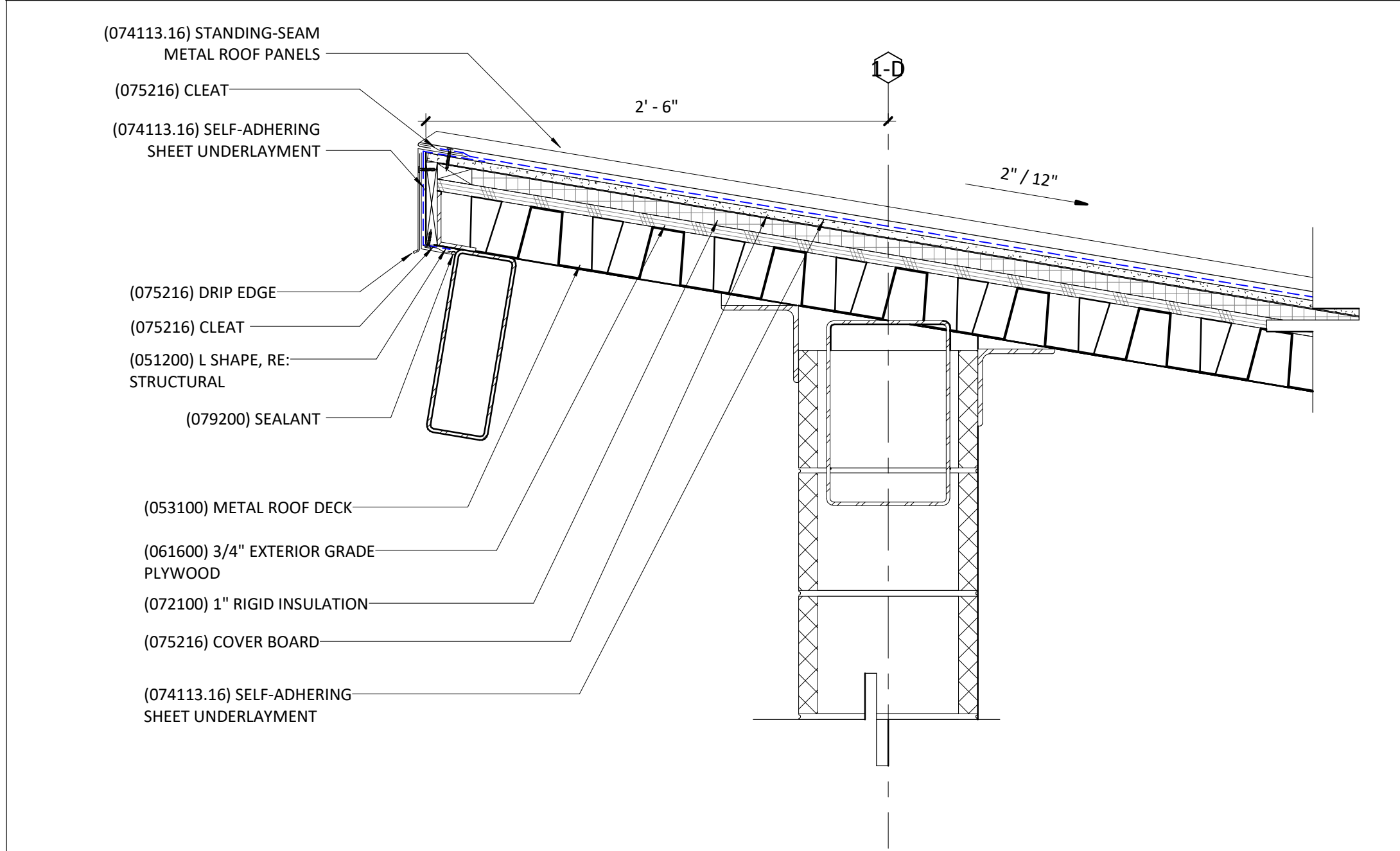
Section Detail - East Roof Edge @ Open Video Deck E6
1 1/2" = 1'-0"



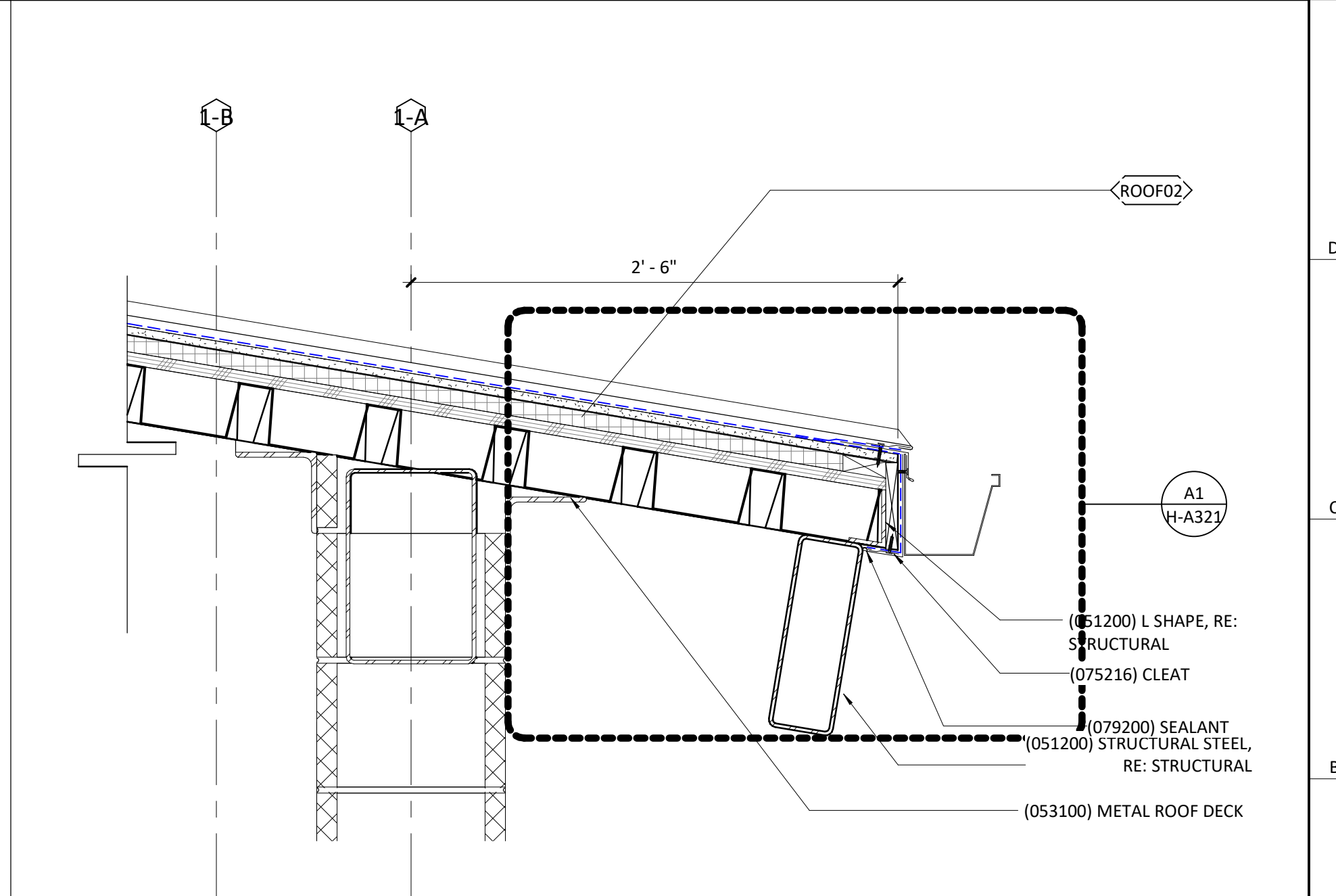
Section Detail - West Roof Edge @ Open Video Deck E1
1 1/2" = 1'-0"



Section Detail - Roof @ Press Box A12
1 1/2" = 1'-0"

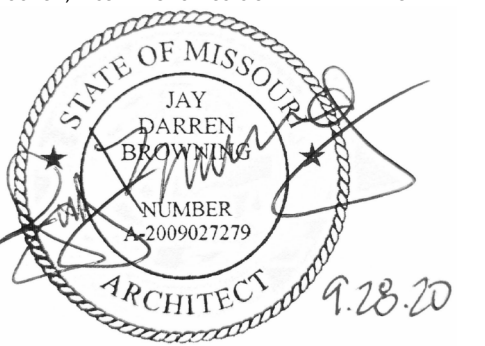


Section Detail - East Roof Edge @ Stair Tower A6
1 1/2" = 1'-0"



Section Detail - West Roof Edge @ Stair Tower A1
1 1/2" = 1'-0"

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REVISIONS

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PROJECT NO: 0119-0101
DATE: September 28, 2020

**Exterior Section Details
- Roof**

H-A320

BID SET

**Lee's Summit R7 District
Athletics Facilities**

Lee's Summit High School
400 SW Blue Parkway
Lee's Summit, MO 64063

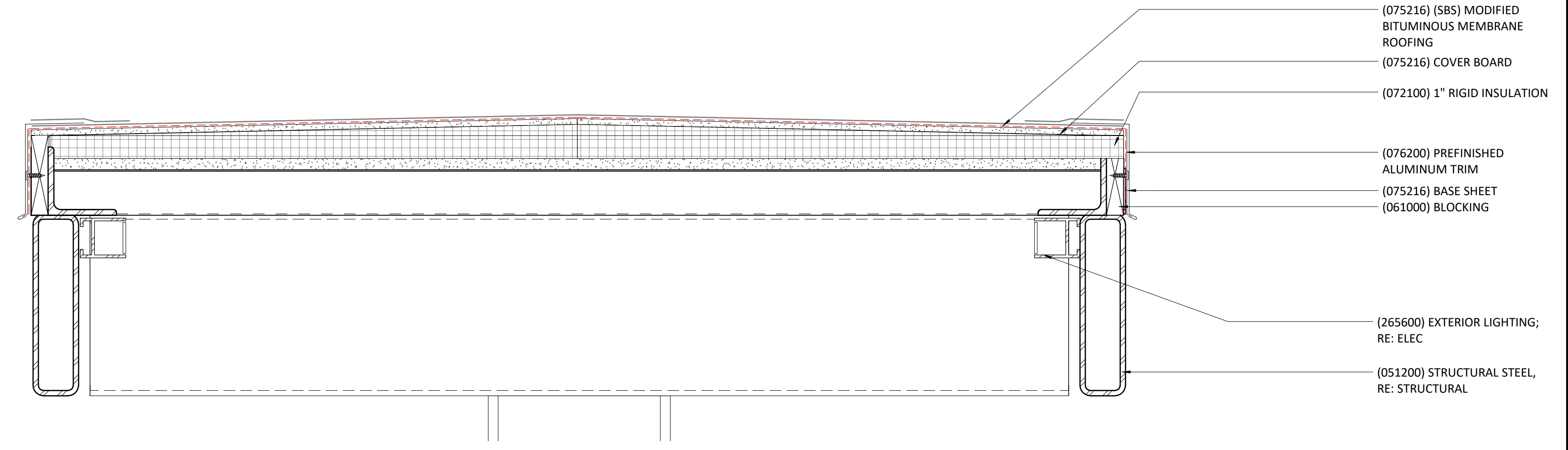
owner:
Lee's Summit R7 School District
301 NE Tudor Road
Lee's Summit, MO 64086

architect:
Gould Evans
4200 Pennsylvania Avenue
Kansas City, MO 64111
816.931.6655 voice
www.gouldevans.com

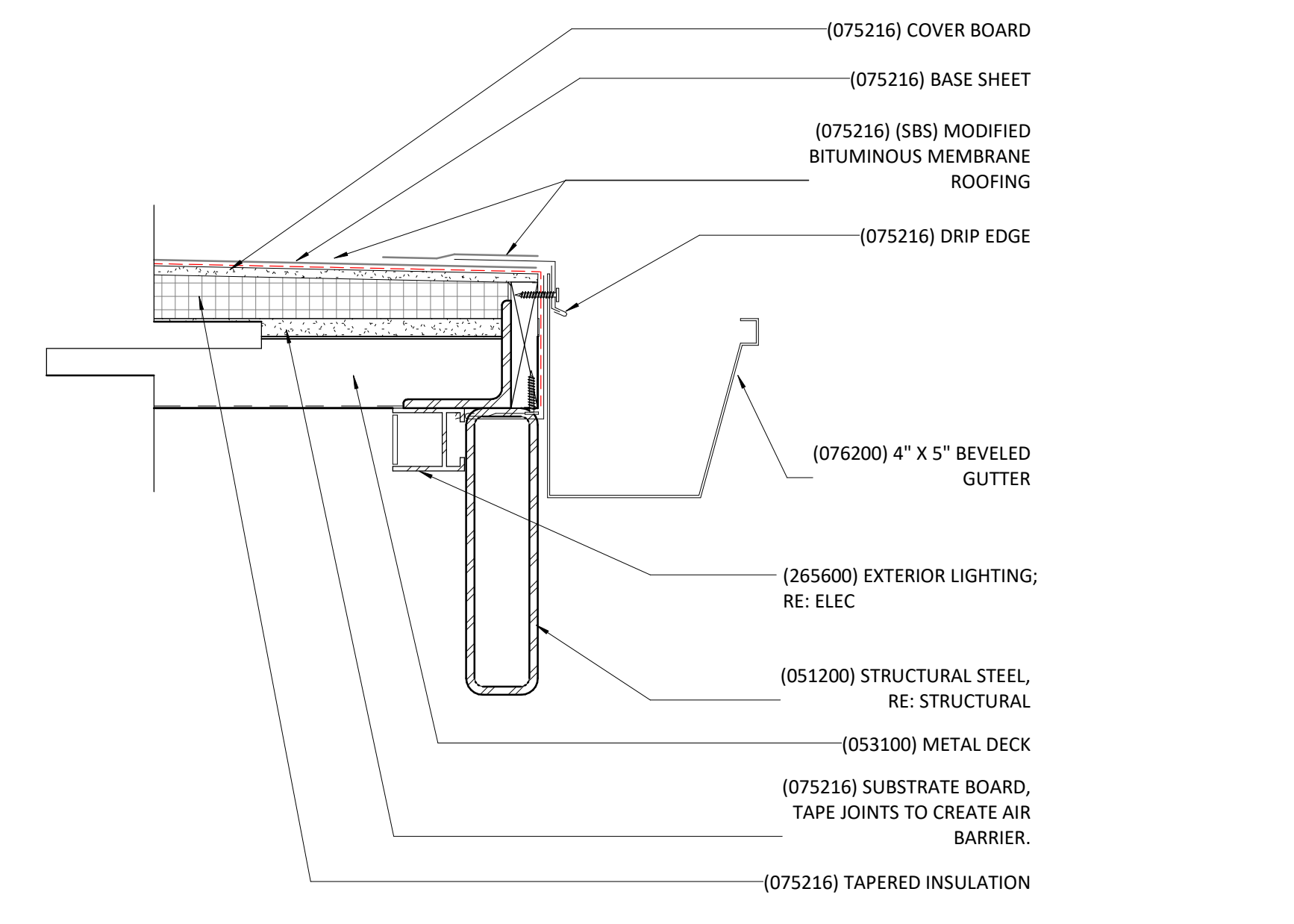
structural engineer:
Bob O. Campbell & Company, Inc.
4338 Bellevue Avenue
Kansas City, MO 64111
816.331.4144

civil engineer:
Kaw Valley Engineering
14700 West 134th Terrace
Lenexa, KS 66215
913.485.0318

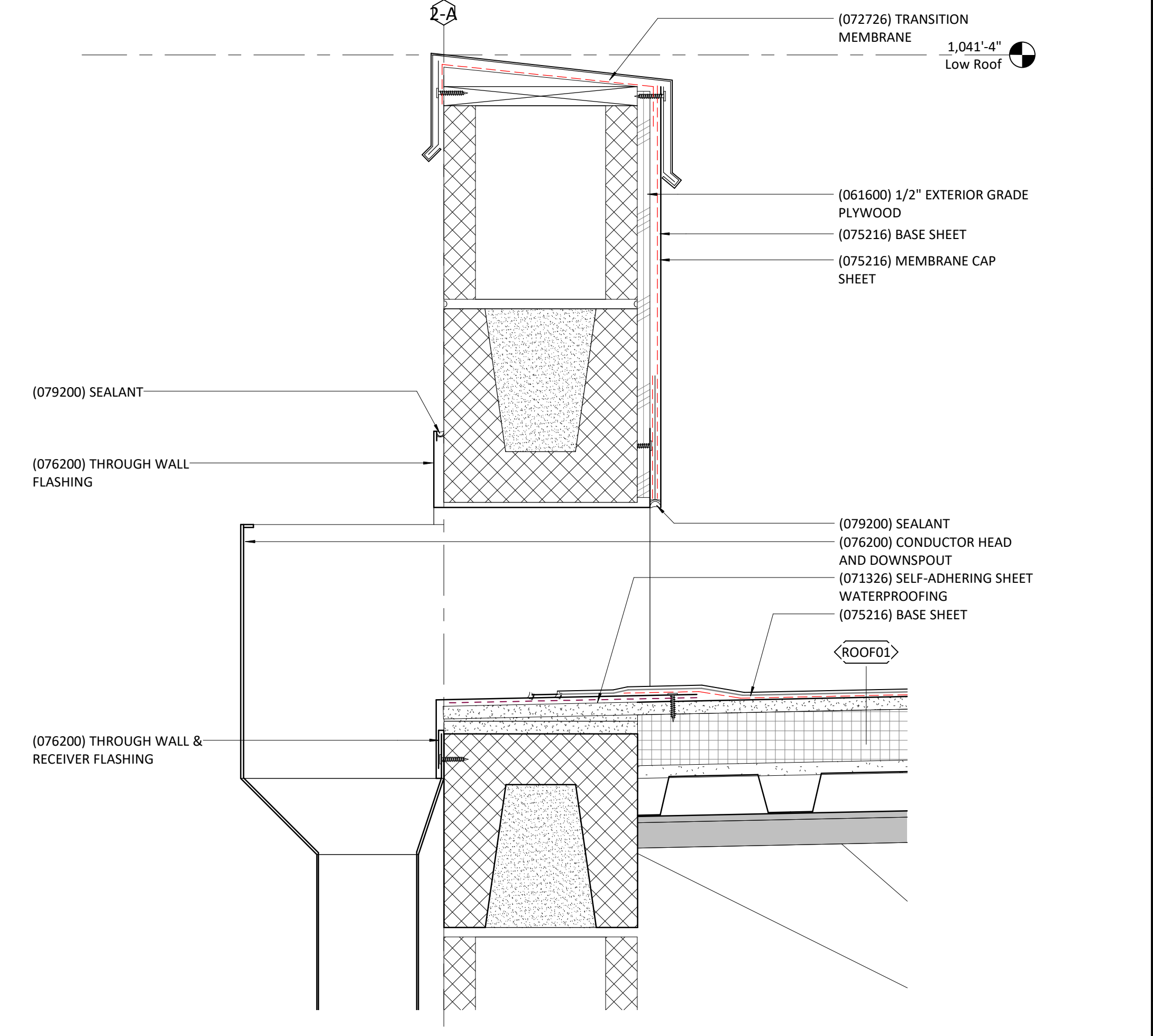
mechanical/electrical engineer:
Henderson Engineers
8345 Lenexa Drive | Suite 300
Lenexa, KS 66214
816.742.5000



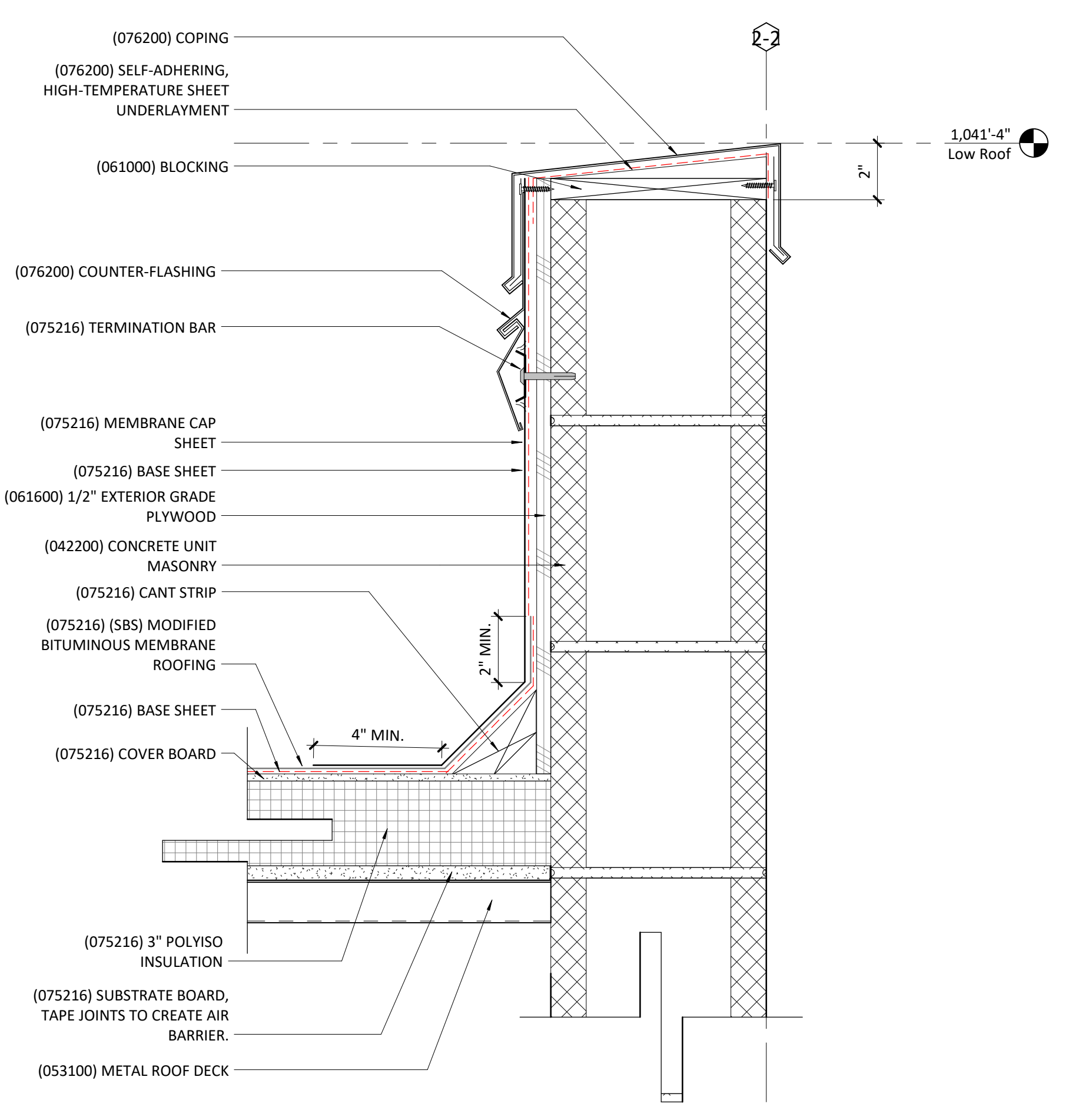
Freestanding Canopy Roof Section L1
3" = 1'-0"



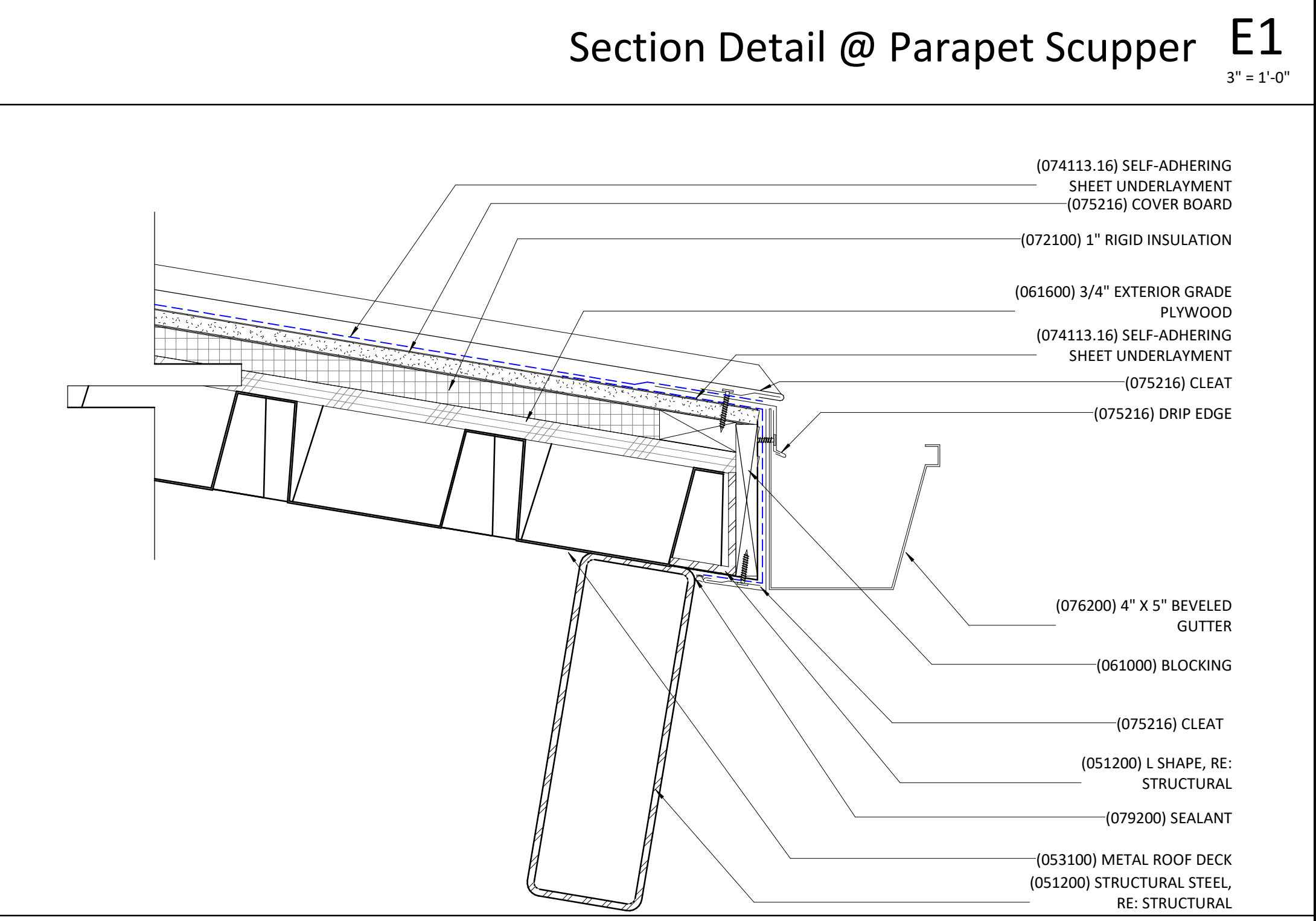
Section Detail @ Mod Bit Eave, Typ. G7
3" = 1'-0"



Section Detail @ Parapet Scupper E1
3" = 1'-0"

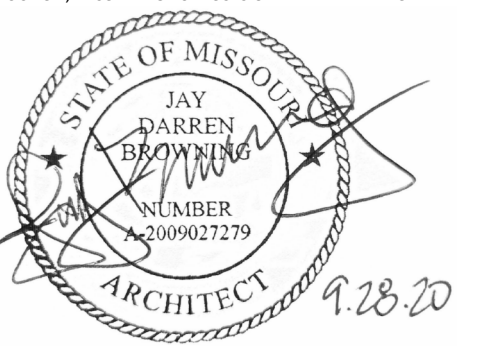


Section Detail @ Parapet, Typ. A7
3" = 1'-0"



Section Detail @ Standing Seam Eave, Typ. A1
3" = 1'-0"

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Architect License No. A-2009027279

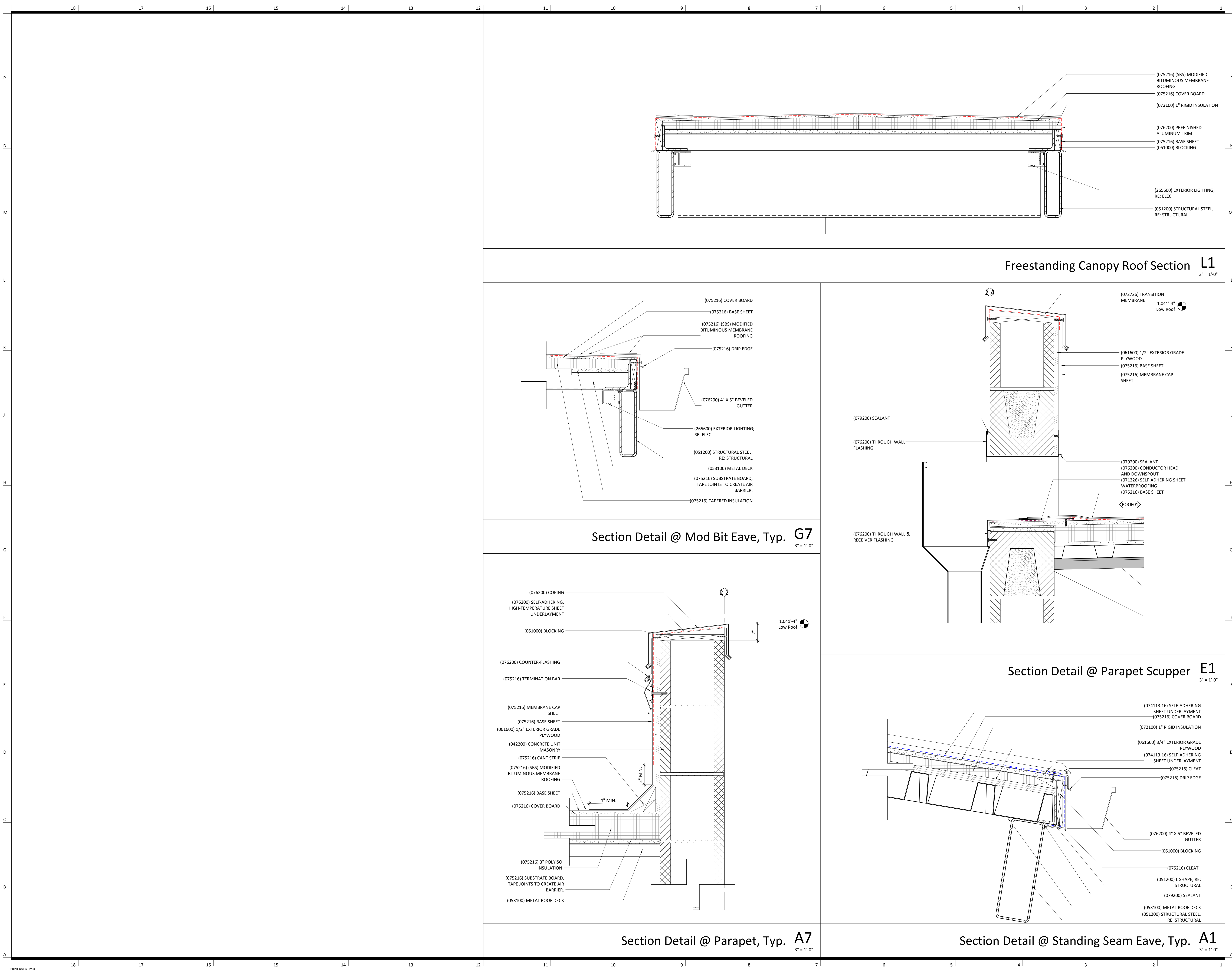
REVISIONS		
Number	DESCRIPTION	DATE

PROJECT NO: 0119-0101
DATE: September 28, 2020

Exterior Section Details
- Roof

H-A321

BID SET



**Lee's Summit R7 District
Athletics Facilities**

Lee's Summit High School
400 SW Blue Parkway
Lee's Summit, MO 64063

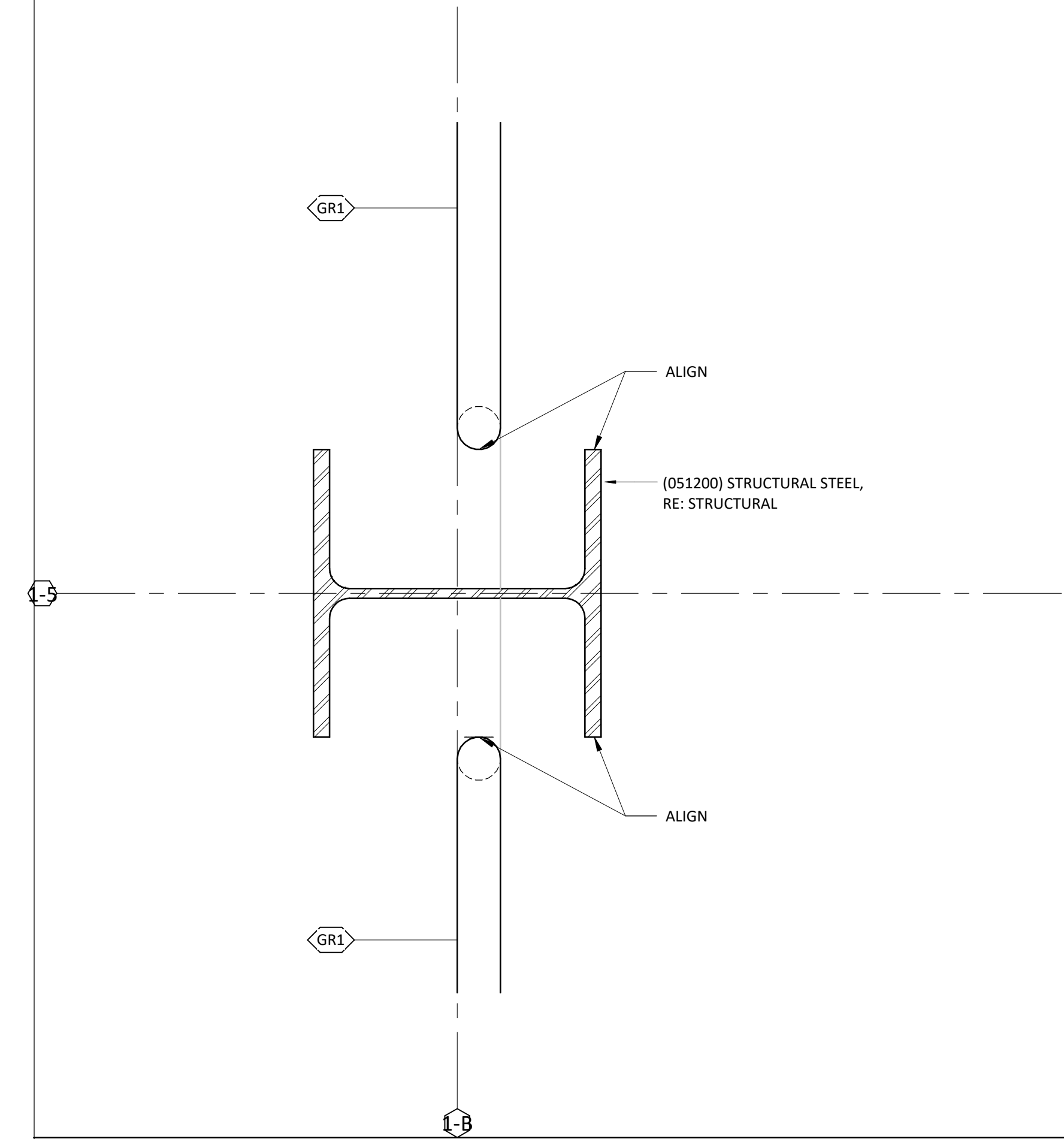
owner:
Lee's Summit R7 School District
301 NE Tudor Road
Lee's Summit, MO 64086

architect:
Gould Evans
4200 Pennsylvania Avenue
Kansas City, MO 64111
816.931.6655 voice
www.gouldevans.com

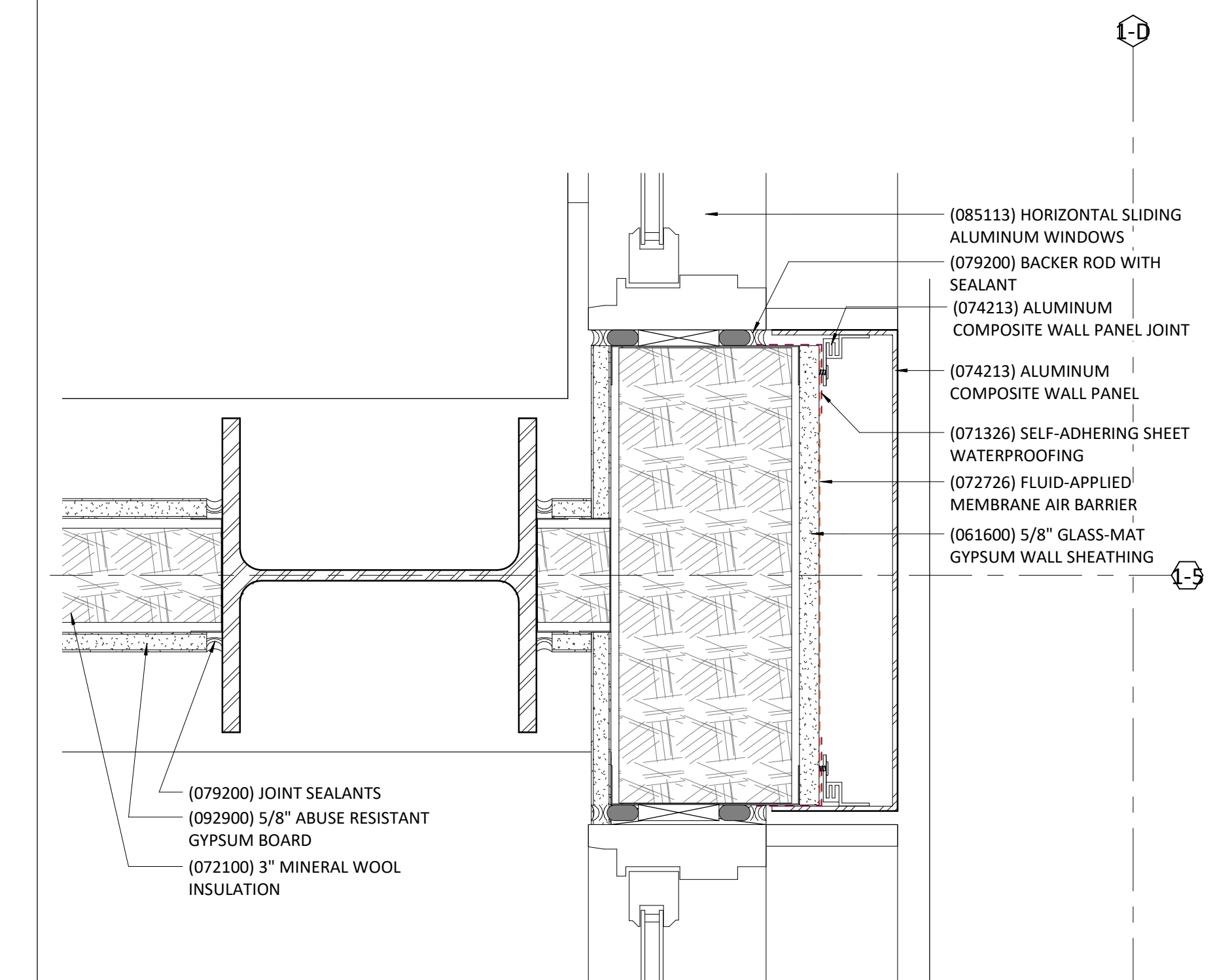
structural engineer:
Bob D. Campbell & Company, Inc.
4338 Bellevue Avenue
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816.331.4144

civil engineer:
Kaw Valley Engineering
14700 West 114th Terrace
Lenexa, KS 66215
913.485.0318

mechanical/electrical engineer:
Henderson Engineers
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Lenexa, KS 66214
816.742.5000

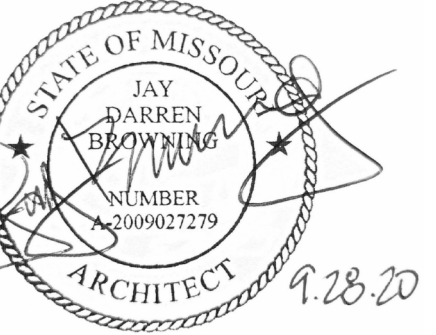


GR1 Guardrail Plan Detail F1
3" = 1'-0"



Press Box Plan Detail A1
3" = 1'-0"

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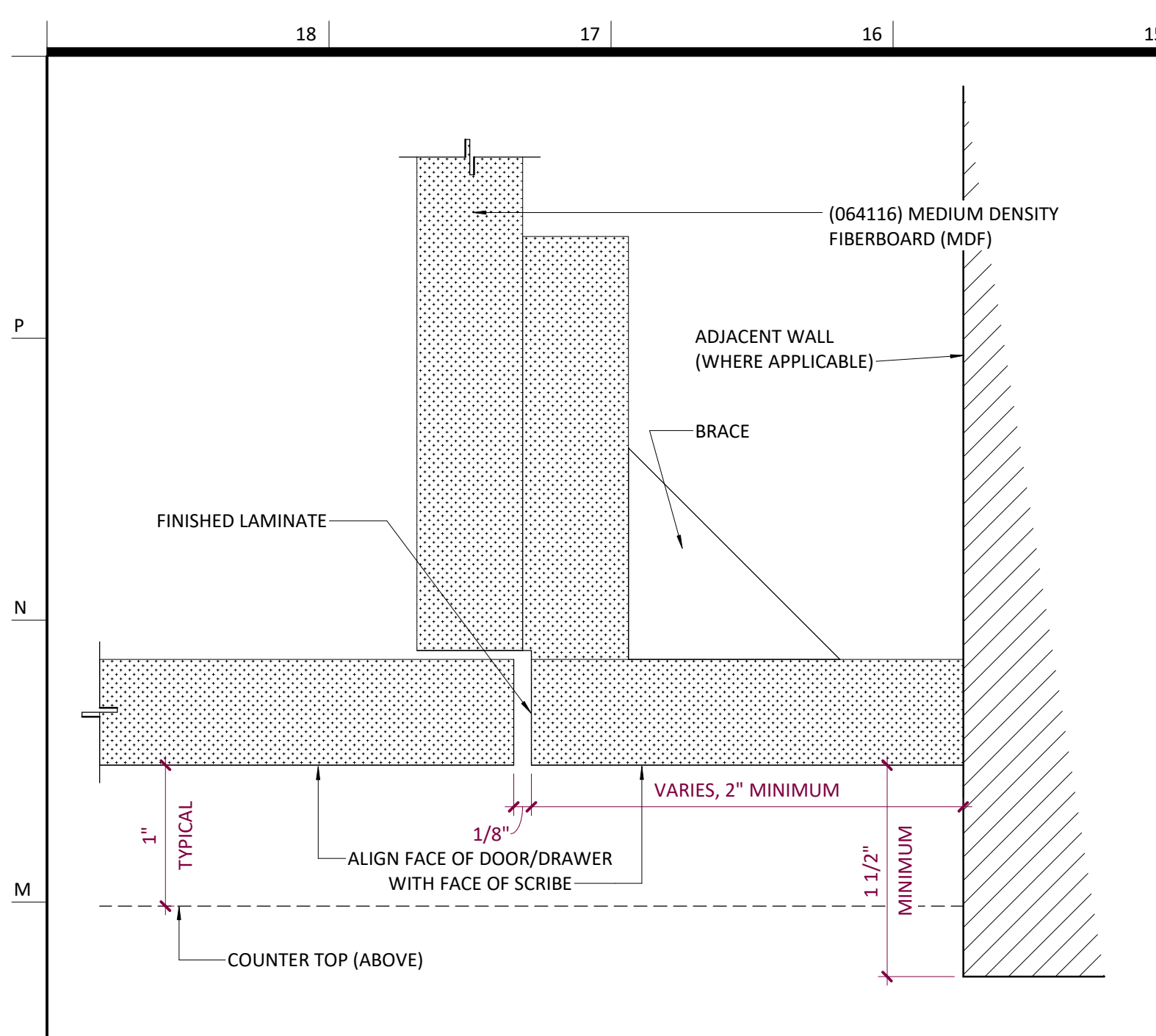
Number	DESCRIPTION	DATE

PROJECT NO: 0119-0101
DATE: September 28, 2020

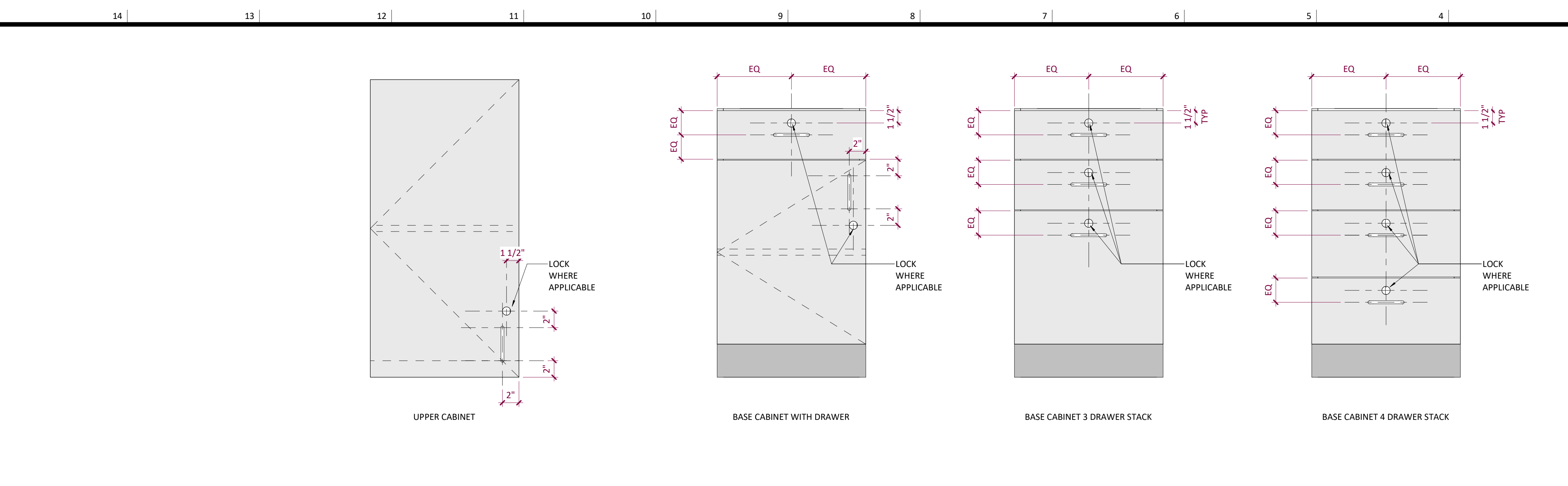
Exterior Plan Details

H-A330

BID SET



Plan Detail - Typical Scribe L15
12" = 1'-0"

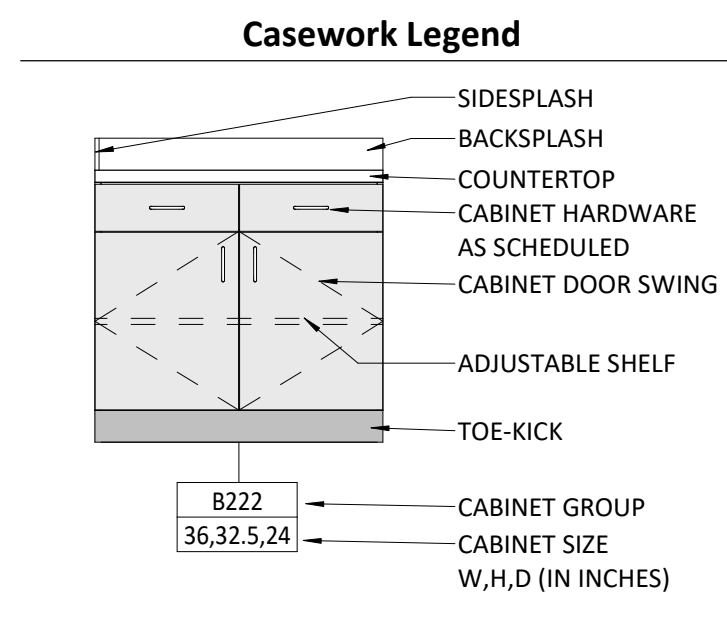


Standard Lock and Pull Locations L3
1 1/2" = 1'-0"

General Notes (Casework Standards):

- ALL CASEWORK IS TO BE CONSTRUCTED TO MEET OR EXCEED ARCHITECTURAL WOODWORK INSTITUTE (AWI) STANDARDS.
- FIELD VERIFY ALL DIMENSIONS PRIOR TO FABRICATION.
- PROVIDE RUBBER BASE AT ALL CABINET BASES, UNLESS NOTED OTHERWISE.
- REFER TO INTERIOR ELEVATIONS AND FINISH SCHEDULE FOR SPECIFIC MATERIAL LOCATIONS.
- PROVIDE MOISTURE RESISTANT PLYWOOD AT COUNTERTOPS WITH SINKS.
- SINKS SHOWN ON THESE DRAWINGS INDICATE LOCATIONS ONLY AND MAY NOTE REFLECT ACTUAL SIZES OR TYPES.
- COORDINATE LOCATIONS OF ALL EQUIPMENT AND CONFIRM PROPER CLEARANCES. NOTIFY ARCHITECT OF ANY DISCREPANCIES.
- CENTER ALL SINKS IN THE ASSOCIATED CASEWORK, UNLESS NOTED OTHERWISE.
- PROVIDE SIDE SPLASH WHERE COUNTERTOP ABUTS WALL, OR AT COUNTERTOPS WITH DIFFERENT HEIGHTS ABUT.
- SEAL ALL JOINTS BETWEEN WORK SURFACES/CABINETS AND ADJOINING SURFACES.
- PROVIDE IN WALL BLOCKING AS REQUIRED FOR UPPER CABINETS.
- CONTRACTOR WILL BE RESPONSIBLE FOR PROTECTING FINISHED FLOORING SURFACES FROM DAMAGE DURING ALL CONSTRUCTION PHASES.
- FIELD COORDINATE LOCATIONS OF GROMMETS IN COUNTERTOPS WITH OWNER/ARCHITECT.
- PROVIDE FINISHED CLOSURE PANELS AT EXPOSED END CONDITIONS.
- PROVIDE FILLER PANEL/Scribe AT ALL LOCATIONS WHERE CASEWORK MEETS A WALL.
- PROVIDE LOCKS AT ALL CABINET DOORS. FINAL LOCK COORDINATION WILL BE DONE BY OWNER/ARCHITECT DURING SHOP DRAWING PROCESS.
- ALL PENETRATIONS THROUGH CASEWORK SHALL BE SEALED OR COVERED WITH AN ESCUTCHEON.

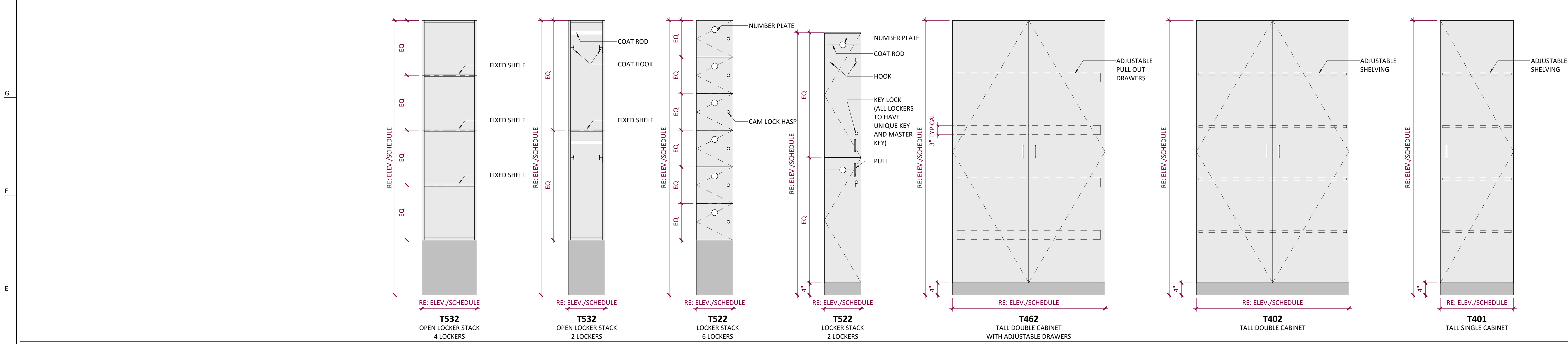
- CASEWORK CABINET GROUPS:**
- B BASE CABINET U UPPER CABINET
 - BS BASE SCRIBE US UPPER SCRIBE
 - T TALL CABINET



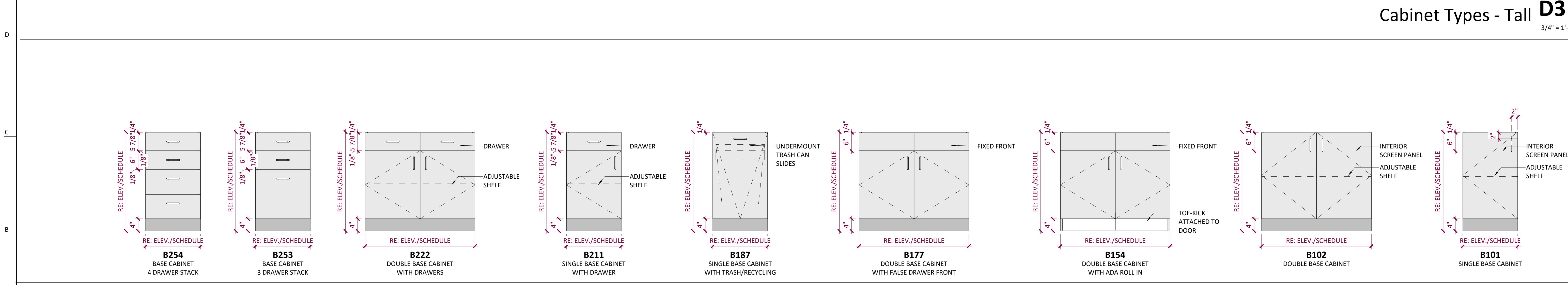
Cabinet Types - Upper H3
3/4" = 1'-0"

Casework Schedule

Mark	Width	Height	Depth
Base-101-Single			
B101	18"	32 1/2"	30"
Base-102-Double			
B102		32 1/2"	
Counter Top		36"	
Wall Bracket - In Wall	2"		



Cabinet Types - Tall D3
3/4" = 1'-0"



Cabinet Types - Base A3
3/4" = 1'-0"

Lee's Summit R7 District Athletics Facilities

Lee's Summit High School
400 SW Blue Parkway
Lee's Summit, MO 64063

owner:
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Lee's Summit, MO 64086

architect:
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structural engineer:
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mechanical/electrical engineer:
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Jay Browning Date: 09/28/2020
Architect License No. A-2009027279

REVISIONS

Number	DESCRIPTION	DATE

PROJECT NO: 0119-0101
DATE: September 28, 2020

Casework Standards

H-A600

BID SET

Finish Legend - Interiors

Mark	Manufacturer	Model	Comments	Latest Revision
033000 CAST-IN-PLACE CONCRETE				
CC01	EXPOSED CAST IN PLACE CONCRETE		CONCRETE WITH CURE AND SEALING COMPOUND	
CC02	EXPOSED CAST IN PLACE CONCRETE		CONCRETE WITH (071800) WITH TRAFFIC COATING	
042000 CONCRETE MASONRY UNITS				
H-CMU1	TRENWYTH INDUSTRIES	MIDWEST SLATE - 12" x 8" x 16"	TRENDSTONE, SOLOMON MORTAR COLOR 97X	
H-CMU2	TRENWYTH INDUSTRIES	MIDWEST SLATE - 8" x 8" x 16"	TRENDSTONE, SOLOMON MORTAR COLOR 97X	
064023 INTERIOR ARCHITECTURAL WOODWORK				
MEL01	WHITE MELAMINE			
PLD1	FORMICA	FORMICA COMPACT - MATTE FINISH - TERRIL 2297		
074113 STANDING SEAM METAL ROOF				
H-MR01	PAC-CLAD	SNAP-CLAD-CITYSCAPE		
074213.23 METAL COMPOSITE MATERIAL WALL PANELS				
H-MWP1	PAC-CLAD	PAC-3000 RS COMPOSITE WALL PANEL	MATCH ARCHITECT'S ZINC METAL SAMPLE, PROVIDE CUSTOM COLOR IF REQUIRED	
088000 GLAZING				
GL01		1/4" CLEAR (Tempered)		
IGU01		1" INSULATED GLASS		
095113 ACOUSTICAL PANEL CEILINGS				
ACT01	USG	ASTRO CLIMAPLUS TREATED WITH AEGIS MICROBE SHIELD	COLOR: WHITE, SIZE: 24" X 48" X 1", EDGE: SQ	
ACT02	USG	KITCHEN LAY-IN PANEL CLIMAPLUS PERFORMANCE	COLOR: WHITE, SIZE: 24" X 24" X 1", EDGE: SQ	
096513 RESILIENT BASE AND ACCESSORIES				
RB01	ROPPE	123 CHARCOAL	6" BASE	
099123 INTERIOR PAINTING				
H-PT01	SHERWIN WILLIAMS	SNOWBOUND 7W7004		
H-PT02	SHERWIN WILLIAMS	RGB - R197 G179 B105	MATCH SCHOOL COLOR - VEGAS GOLD	
H-PT03	SHERWIN WILLIAMS	PEPPERCORN SW7674	ALL EXPOSED STRUCTURE TO PAINTED	
H-PT04	SHERWIN WILLIAMS	SUMMIT GRAY SW7669		
123661 SOLID SURFACE COUNTER TOPS				
SS01	LG HIMACS	GHOST WHITE - ST907	GENERAL COUNTERTOPS	

General Notes (Finishes):

- ALL FINISH MATERIALS MUST MEET THE FLAME SPREAD RATINGS PER THE BUILDING CODE.
- REFER TO INTERIOR ELEVATIONS FOR SPECIFIC MATERIAL LOCATIONS.
- REFERENCED FLOOR/WALL/CEILING TYPES ARE FOR TOP FINISH LAYER DETAILS ONLY. REFER TO ARCHITECTURAL AND STRUCTURAL DRAWINGS FLOOR/WALL/CEILING ASSEMBLY DETAILS PER LOCATION.
- PAINT ALL EXPOSED DUCTWORK, CONDUIT, ELECTRICAL EQUIPMENT, ETC TO MATCH ADJACENT SURFACES.
- PAINT ALL NON-FABRICATION FINISHED EXPOSED METAL.
- REFER TO TYPICAL FLOORING FINISHING TRANSITION DETAILS FOR ALL FLOORING MATERIALS.
- FLOORING TRANSITIONS AT DOORS SHOULD BE LOCATED UNDER THE DOOR IN THE CLOSED POSITION, UNLESS NOTED OTHERWISE.
- CONTRACTOR WILL BE RESPONSIBLE FOR PROTECTING FINISHED FLOORING SURFACES FROM DAMAGE DURING ALL CONSTRUCTION PHASES.
- PROVIDE BULLNOSE TRIM AT TRANSITIONS FROM CERAMIC WALL TILE TO OTHER MATERIAL, UNLESS NOTED OTHERWISE.
- REFER TO REFLECTED CEILING PLANS FOR CEILING HEIGHTS.
- ALL ELECTRICAL DEVICE COVERS ARE TO BE WHITE UNLESS NOTED OTHERWISE.
- CARPET PATTERNS TO RUN PARALLEL TO CORRIDOR, UNLESS NOTED OTHERWISE.
- ALL HOLLOW METAL DOOR FRAMES TO BE PAINTED TO MATCH ADJACENT WALL COLOR.

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Athletics Facilities

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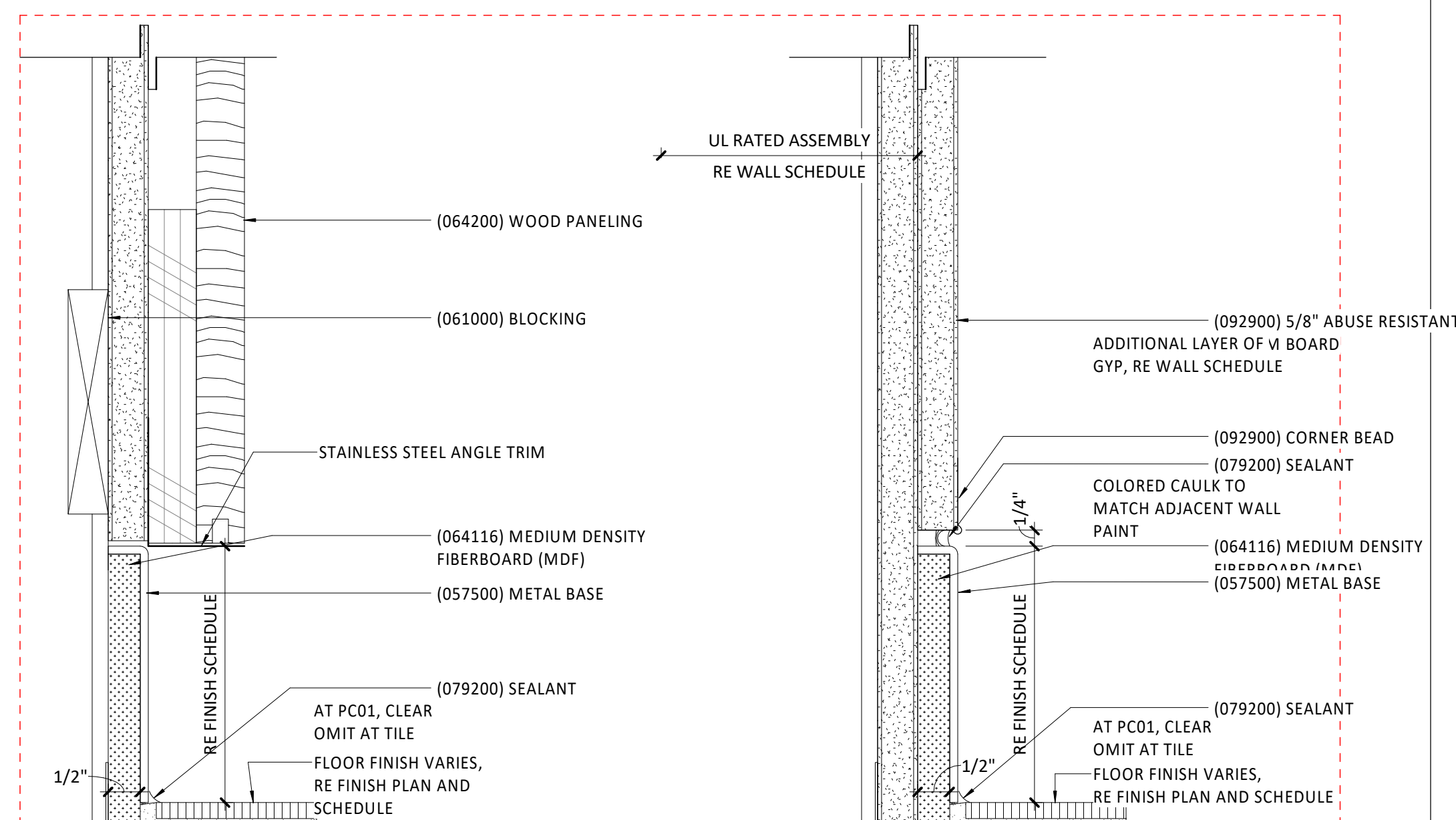
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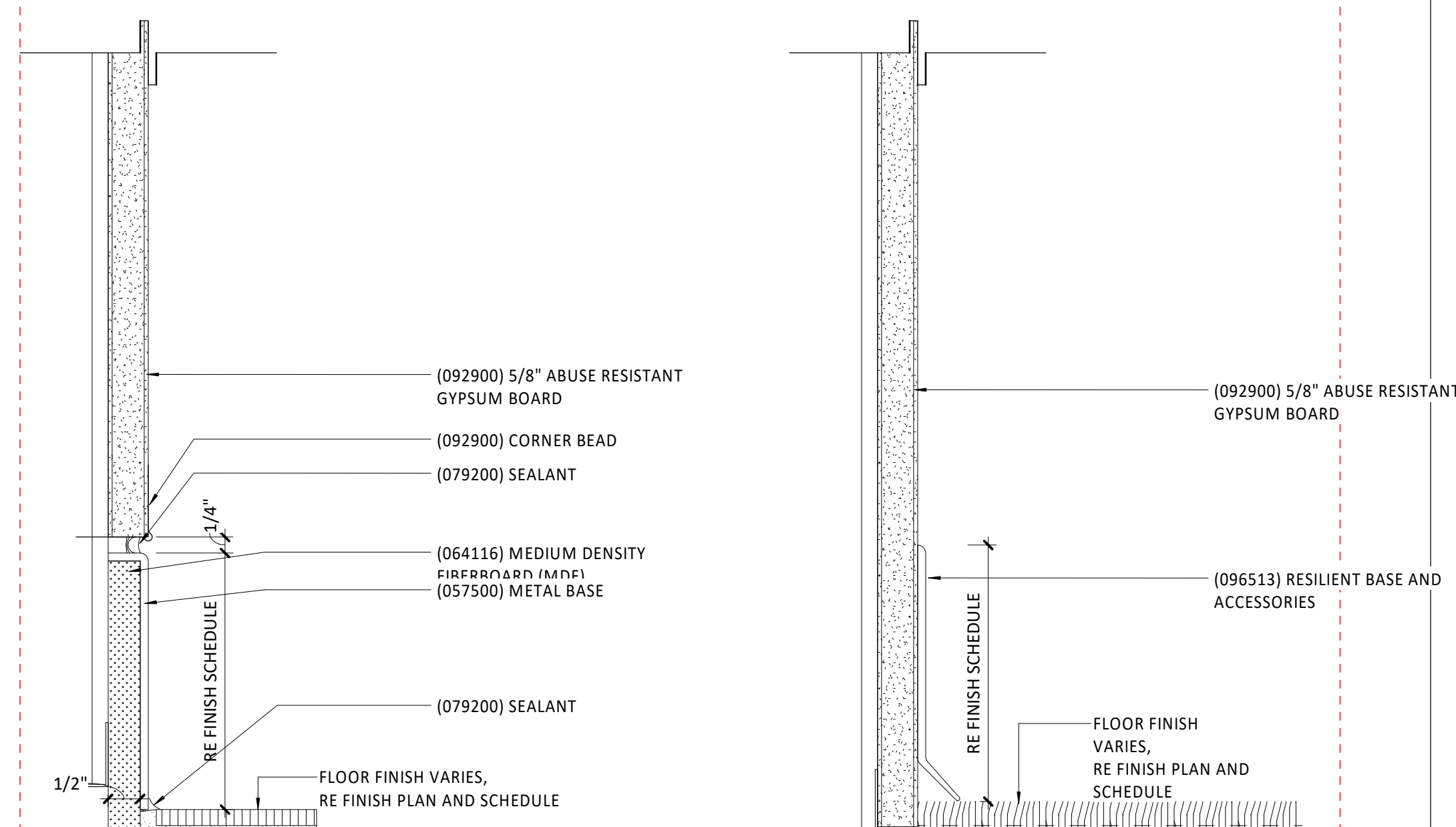
Finish Schedule

Room Number	Room Name	Finish				Comments
		Floor	Base	Wall	Ceiling	
H1-1	Stair	CC01	None	H-CMU1	OTS/H-PT04	
H1-101	Vestibule	CC01	RB01	H-CMU1	OTS/H-PT04	RB01 on Elevator shaft wall
H1-102	Elevator	N/A	None	N/A	N/A	
H1-106	Corridor	CC02	None	N/A	OTS/H-PT02	Traffic Coating 071800 - Exposed structure to be painted H-PT03
H1-201	Vestibule	CC01	None	H-CMU1	OTS/H-PT04	
H1-203	Home Coaches	CC01	RB01	H-PT01	ACT01	Exposed structure to be painted H-PT03
H1-204	Command Center	CC01	RB01	H-PT01	ACT01	Exposed structure to be painted H-PT03
H1-205	Visitor Coaches	CC01	RB01	H-PT01	ACT01	Exposed structure to be painted H-PT03
H1-301	Vestibule	CC01	None	H-CMU1	OTS/H-PT02	
H1-303	Video Deck	CC02	None	N/A	OTS/H-PT02	Traffic Coating 071800; Underside of roof deck to be painted H-PT02 - Exposed structural beams and columns to be painted H-PT03
H2-101	Tennis Storage	CC01	None	H-CMU1	OTS/H-PT04	
H2-102	MEP/Custodian	CC01	None	H-CMU1	OTS/H-PT04	
H2-103	Men's Restroom	CC01	None	H-PT04	ACT01	
H2-104	Women's Restroom	CC01	None	H-PT04	ACT01	
H2-105	Ticket Booth	CC01	None	H-PT01	ACT01	
H2-106	Concessions	CC01	None	H-PT04	ACT02	
H2-107	Storage	CC01	None	H-CMU1	OTS/H-PT04	
H2-108	MEP	CC01	None	H-CMU1	OTS/H-PT04	
H2-109	Storage	CC01	None	H-CMU1	OTS/H-PT04	
H3-101	Visitor Ticket Booth	CC01	None	H-PT01	ACT01	
H4-101	Visitor Pressbox Level 1	Existing	Existing	Existing	Existing	
H4-201	Visitor Pressbox Level 2	Existing	Existing	Existing	Existing	
H4-301	Visitor Pressbox Level 3	Existing	Existing	Existing	Existing	



Typical Stainless Steel Base at Wood Walls

Typical Stainless Steel Base at Rated Walls



Typical Stainless Steel Base

Typical Rubber Base

Wall Base Details 1

6" = 1'-0"

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REVISIONS		
Number	DESCRIPTION	DATE

PROJECT NO: 0119-0101
DATE: September 28, 2020

Finish Legend,
Schedule & Details
H-AF001
BID SET

Lee's Summit R7 District
Athletics Facilities

Lee's Summit High School
400 SW Blue Parkway
Lee's Summit, MO 64063

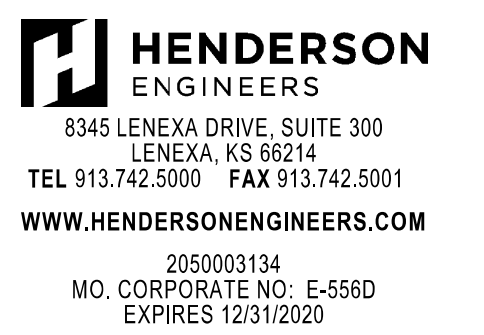
owner:
Lee's Summit R-7 School District
301 NE Tudor Road
Lee's Summit, MO 64086

architect:
Gould Evans
4200 Pennsylvania Avenue
Kansas City, MO 64111
816.931.6655 voice
www.gouldevans.com

structural engineer:
Bob D. Campbell & Company, Inc.
4338 Belleview Avenue
Kansas City, MO 64111
816.531.4144

civil engineer:
Kaw Valley Engineering
14700 West 124th Terrace
Lenexa, KS 66215
913.485.0318

mechanical/electrical engineer:
Henderson Engineers
8345 Lenexa Drive | Suite 300
Lenexa, KS 66214
913.742.5000



Sep 25 2020

REVISIONS

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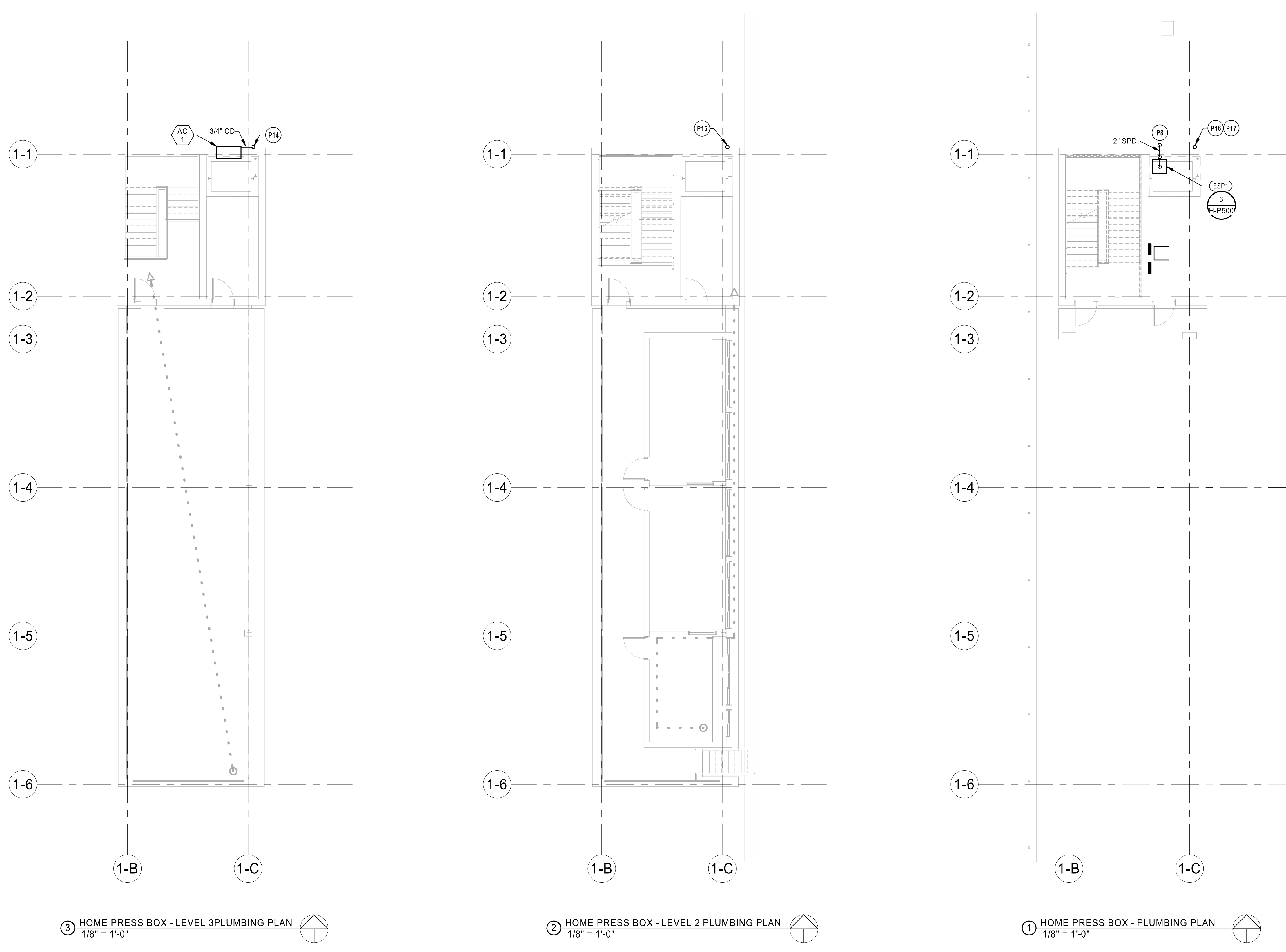
HOME PRESS BOX -
PLUMBING PLANS

H-P111

BID SET

PLUMBING PLAN NOTES:

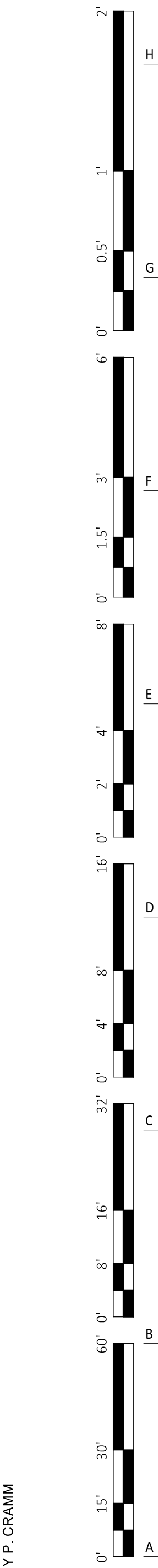
- P8 ELEVATOR SUMP PUMP PIPING SHALL DISCHARGE TO GRADE.
- P14 3/4" CONDENSATE DRAIN TFB.
- P15 3/4" CONDENSATE DRAIN FFA AND TFB.
- P16 3/4" CONDENSATE DRAIN FFA.
- P17 3/4" CONDENSATE DRAIN SHALL DISCHARGE TO GRADE.



3 HOME PRESS BOX - LEVEL 3 PLUMBING PLAN
1/8" = 1'-0"

2 HOME PRESS BOX - LEVEL 2 PLUMBING PLAN
1/8" = 1'-0"

1 HOME PRESS BOX - PLUMBING PLAN
1/8" = 1'-0"



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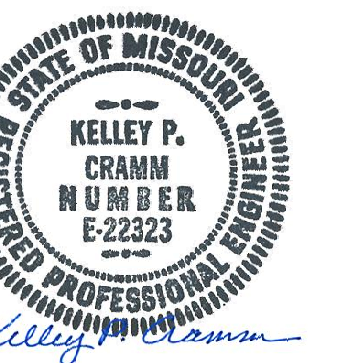
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MO. CORPORATE NO. E-5560
EXPIRES 12/31/2020



Sep 25 2020

REVISIONS

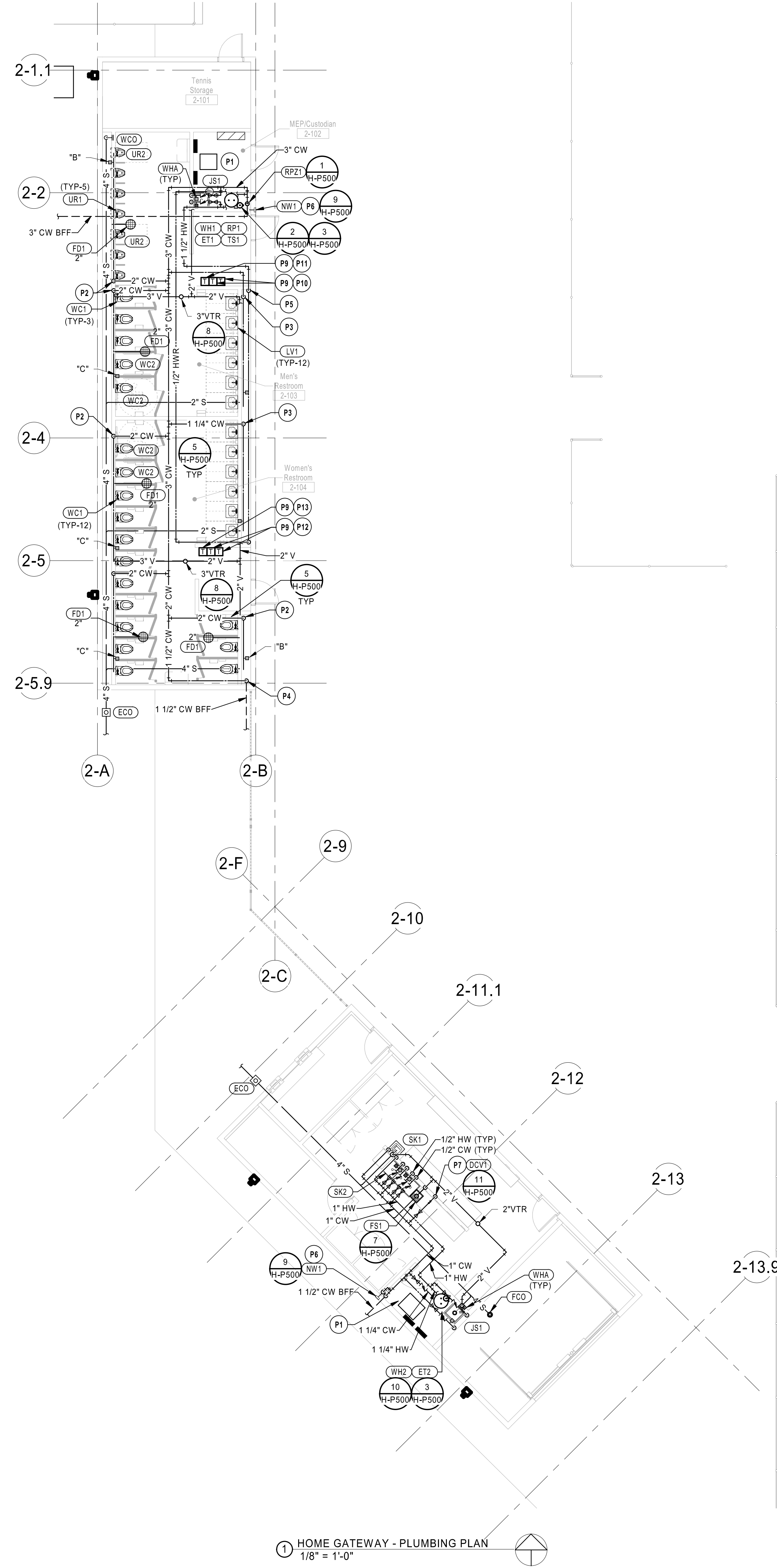
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HOME GATEWAY -
PLUMBING PLAN

H-P121

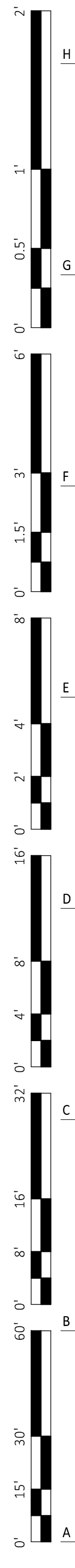
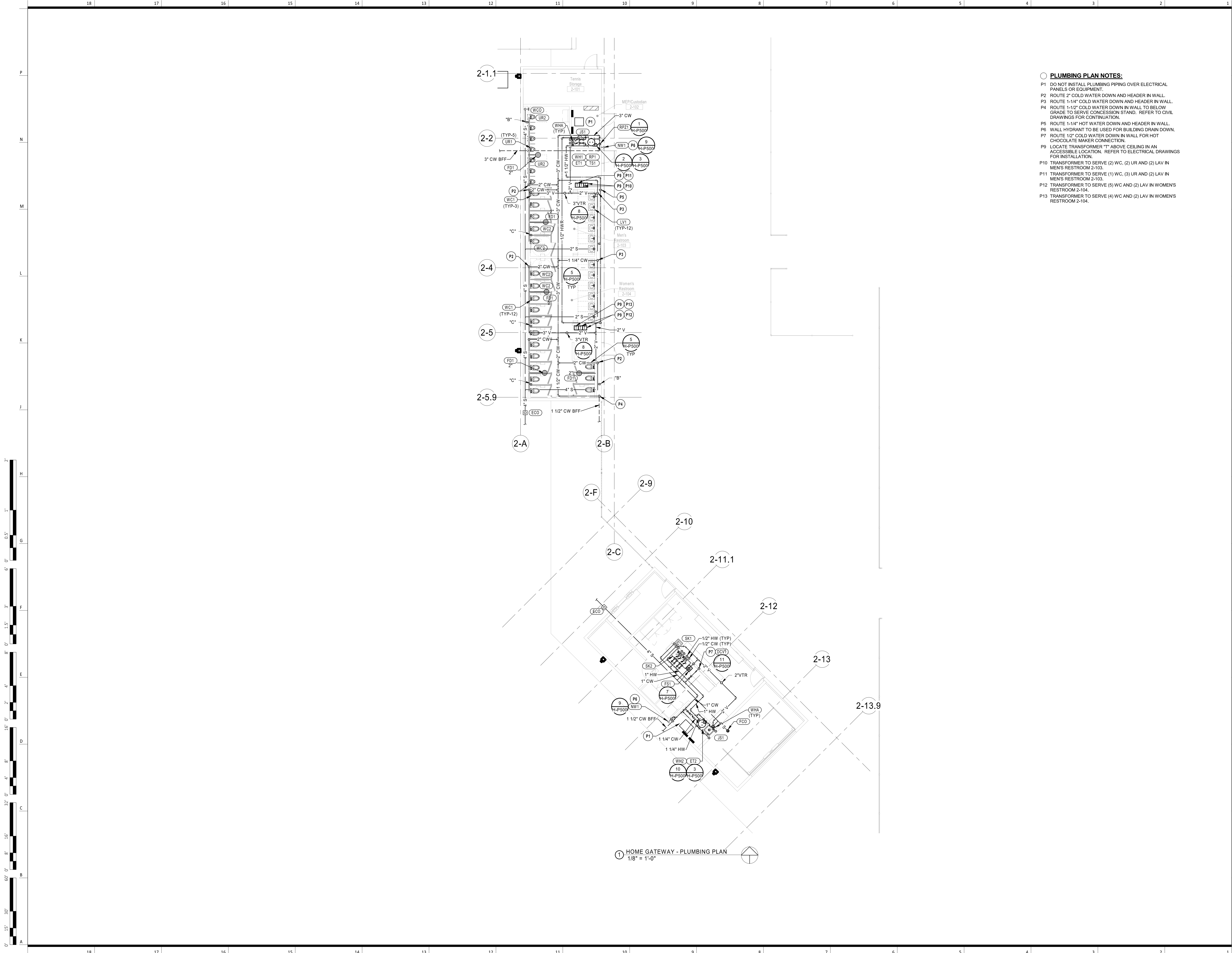
BID SET



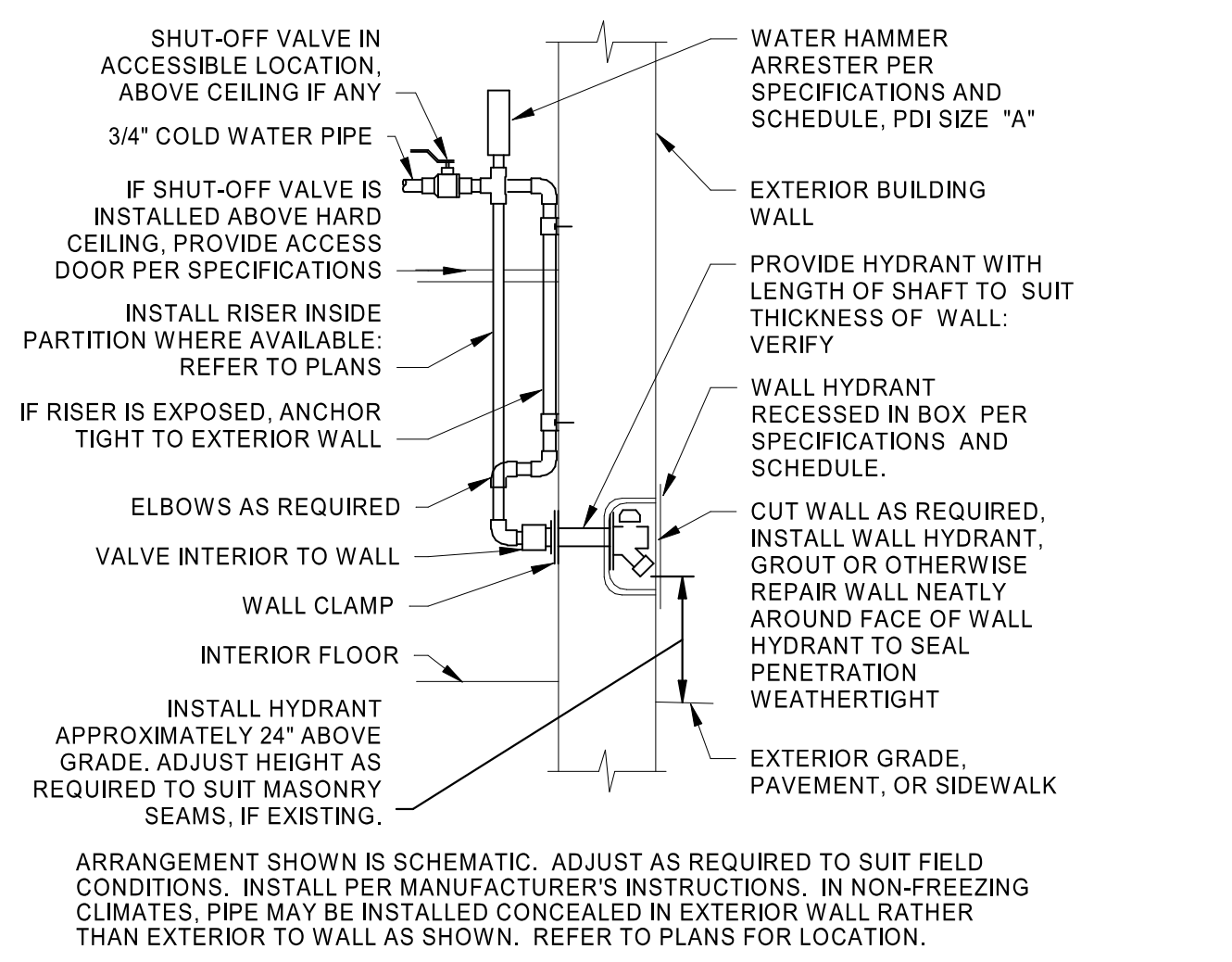
PLUMBING PLAN NOTES:

- P1 DO NOT INSTALL PLUMBING PIPING OVER ELECTRICAL PANELS OR EQUIPMENT.
- P2 ROUTE 2" COLD WATER DOWN AND HEADER IN WALL.
- P3 ROUTE 1-1/4" COLD WATER DOWN AND HEADER IN WALL.
- P4 ROUTE 1-1/2" COLD WATER DOWN IN WALL TO BELOW GRADE TO SERVE CONCESSION STAND. REFER TO CIVIL DRAWINGS FOR CONTINUATION.
- P5 ROUTE 1-1/4" HOT WATER DOWN AND HEADER IN WALL.
- P6 WALL HYDRANT TO BE USED FOR BUILDING DRAIN DOWN.
- P7 ROUTE 1/2" COLD WATER DOWN IN WALL FOR HOT CHOCOLATE MAKER CONNECTION.
- P9 LOCATE TRANSFORMER "T" ABOVE CEILING IN AN ACCESSIBLE LOCATION. REFER TO ELECTRICAL DRAWINGS FOR INSTALLATION.
- P10 TRANSFORMER TO SERVE (2) WC, (2) UR AND (2) LAV IN MEN'S RESTROOM 2-103.
- P11 TRANSFORMER TO SERVE (1) WC, (3) UR AND (2) LAV IN MEN'S RESTROOM 2-105.
- P12 TRANSFORMER TO SERVE (5) WC AND (2) LAV IN WOMEN'S RESTROOM 2-104.
- P13 TRANSFORMER TO SERVE (4) WC AND (2) LAV IN WOMEN'S RESTROOM 2-104.

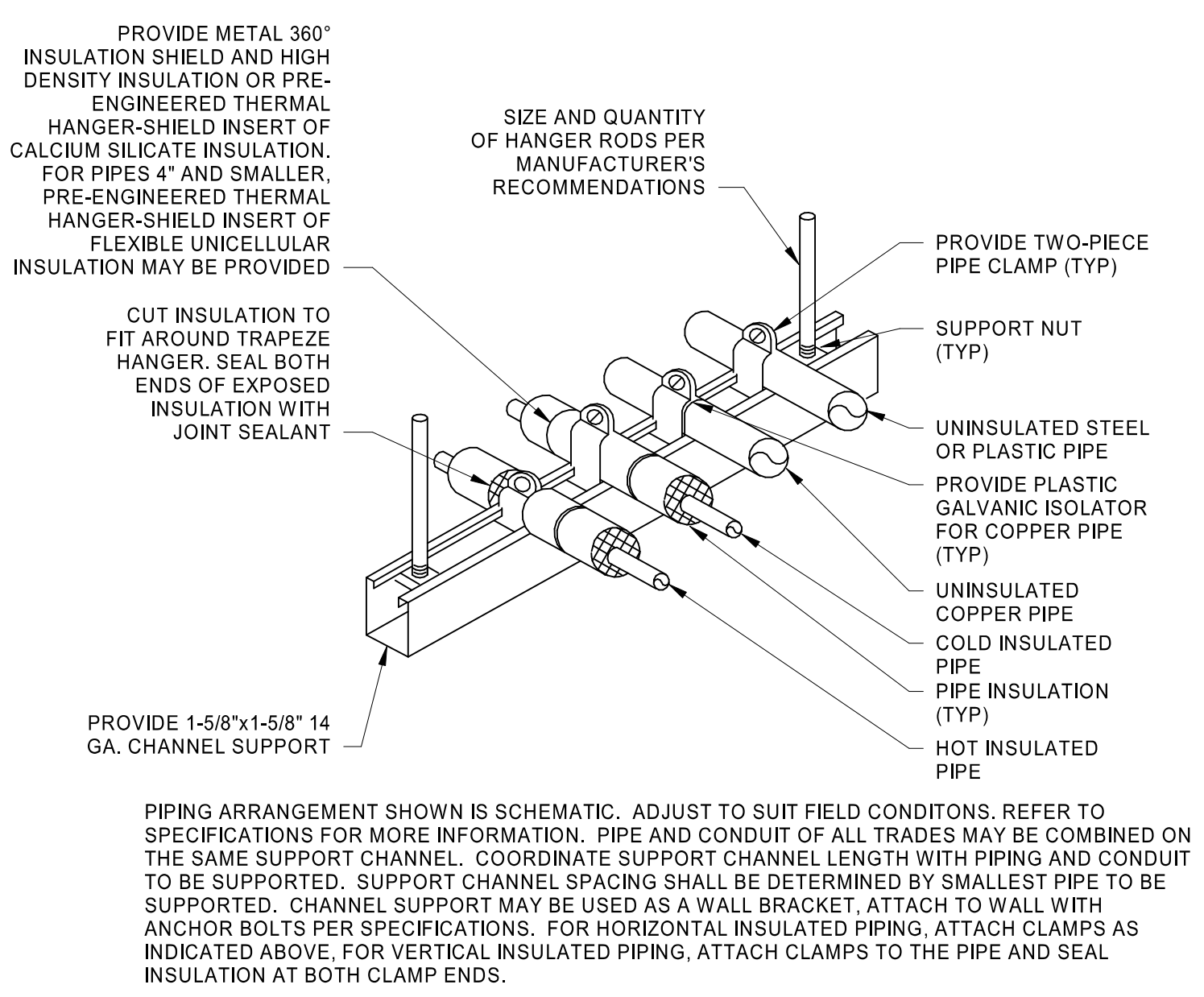
1 HOME GATEWAY - PLUMBING PLAN
1/8" = 1'-0"



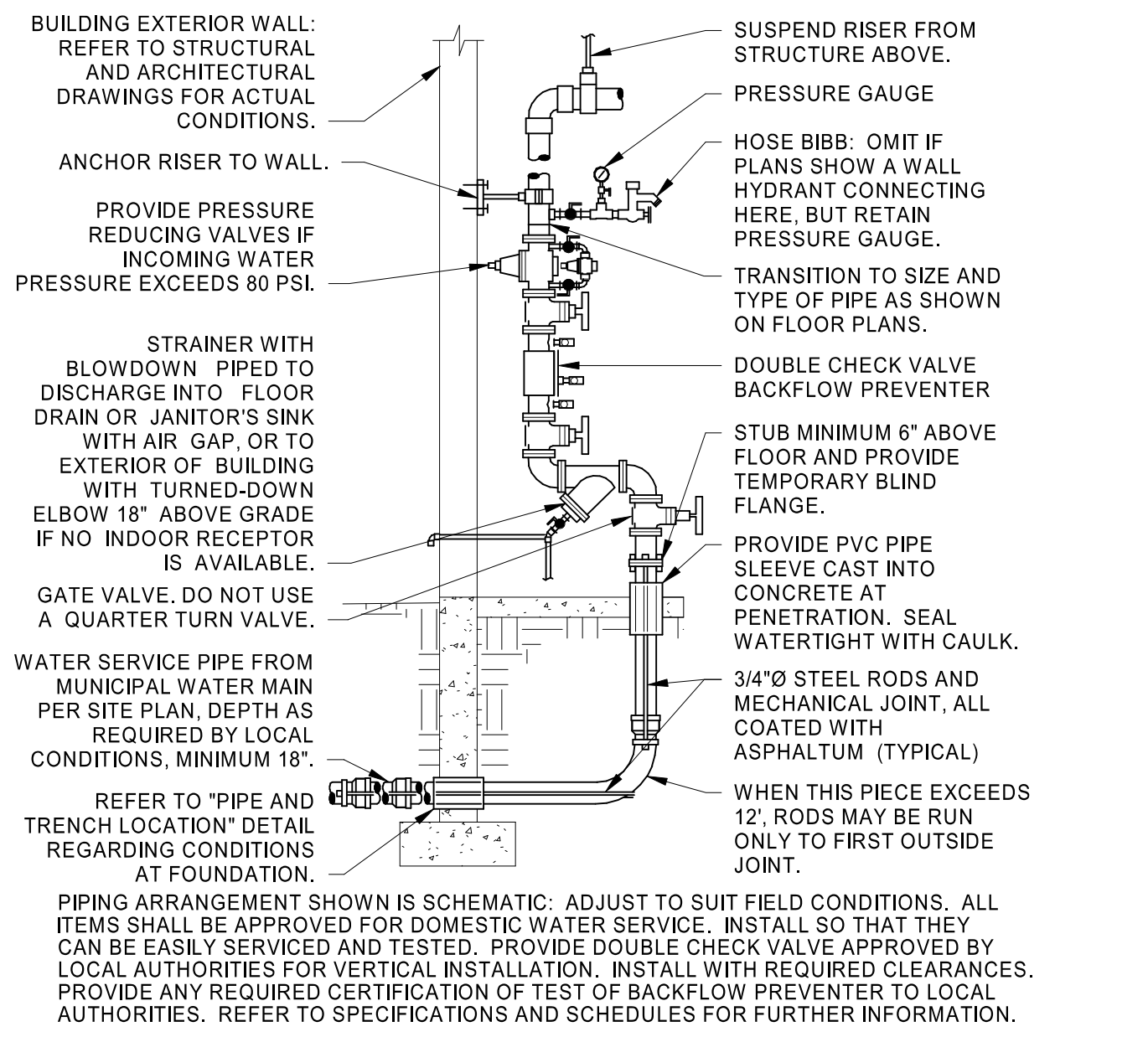
KELLEY P. CRAMM



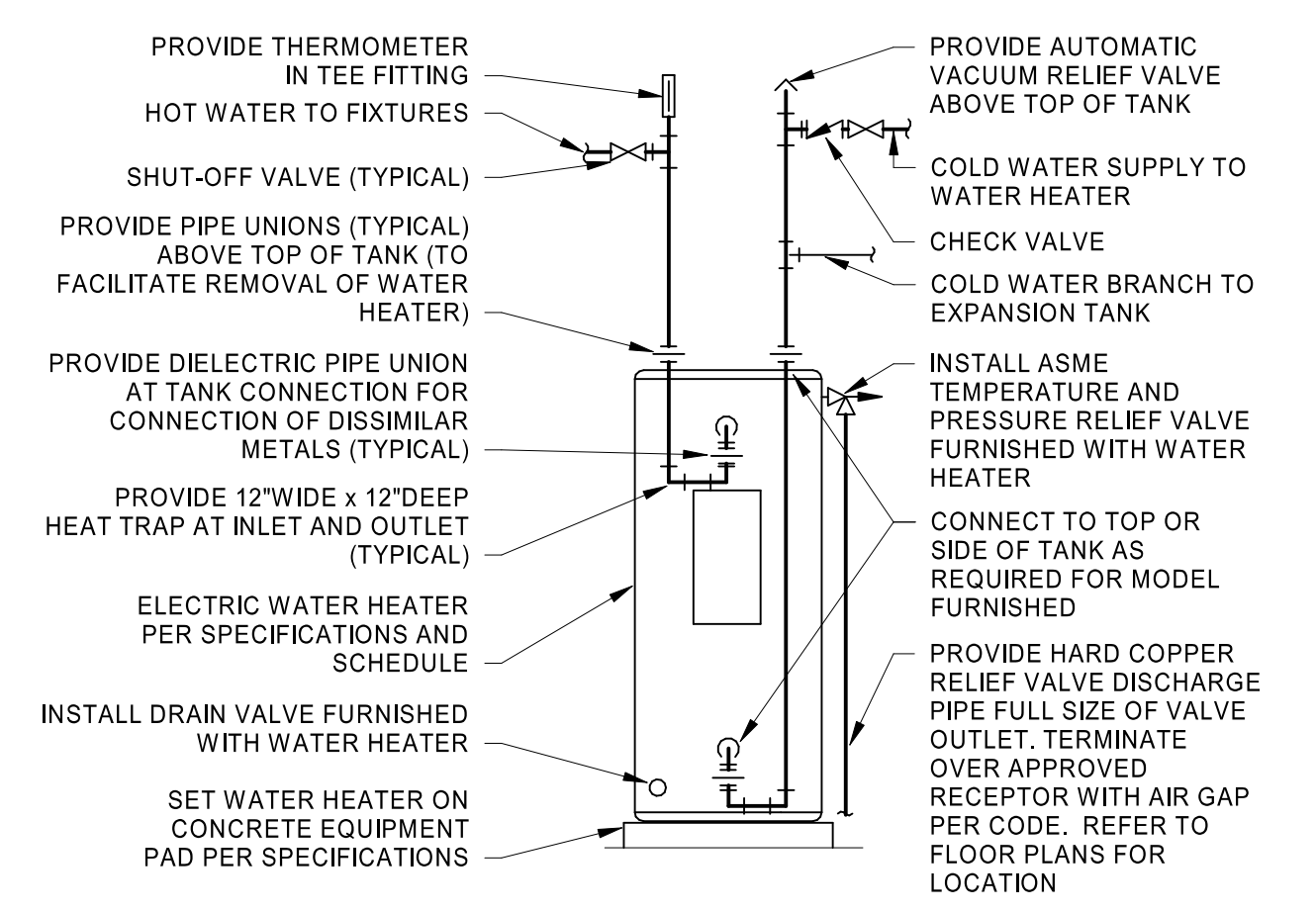
9 WALL HYDRANT INSTALLATION NTS



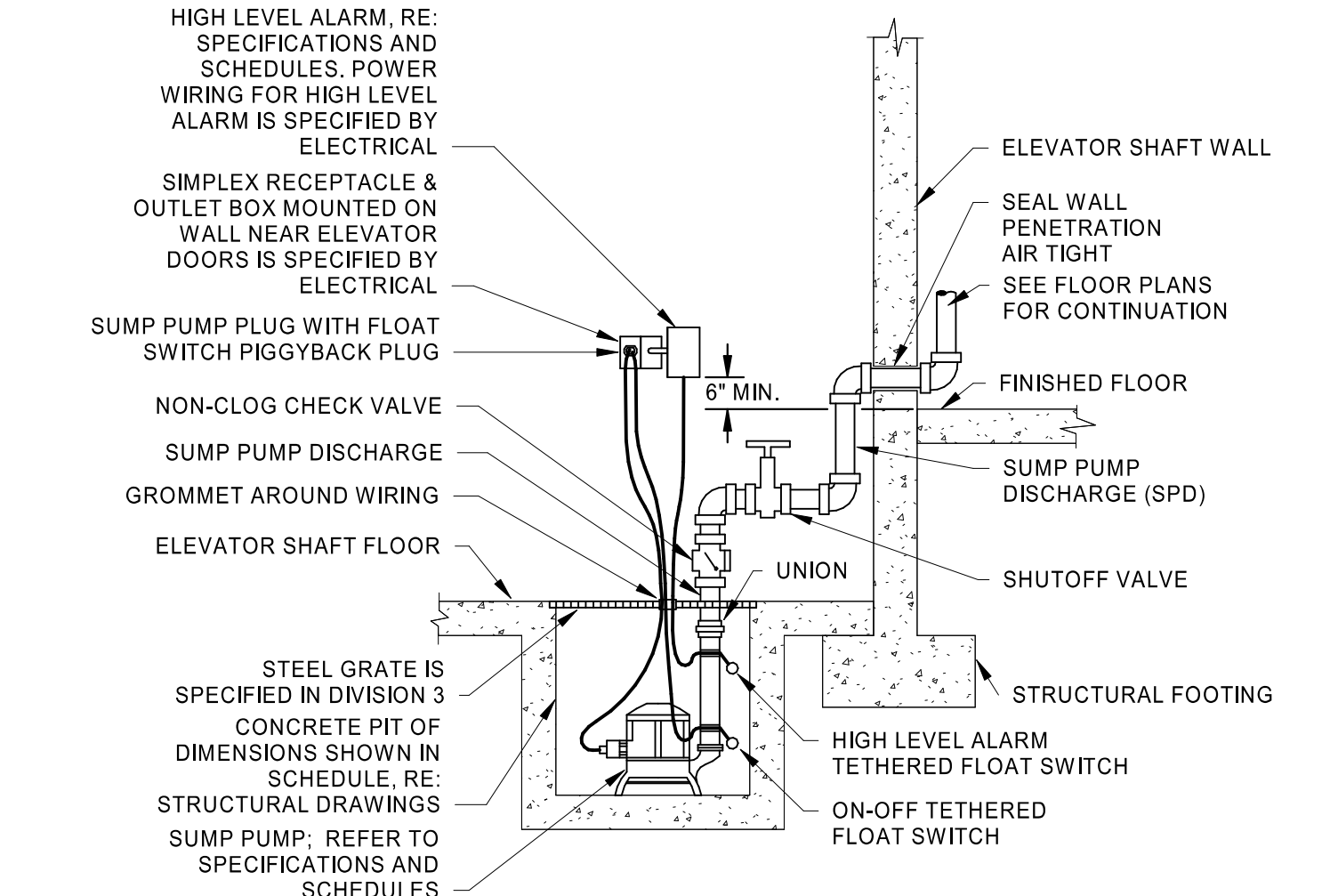
5 TRAPEZE PIPE HANGER NTS



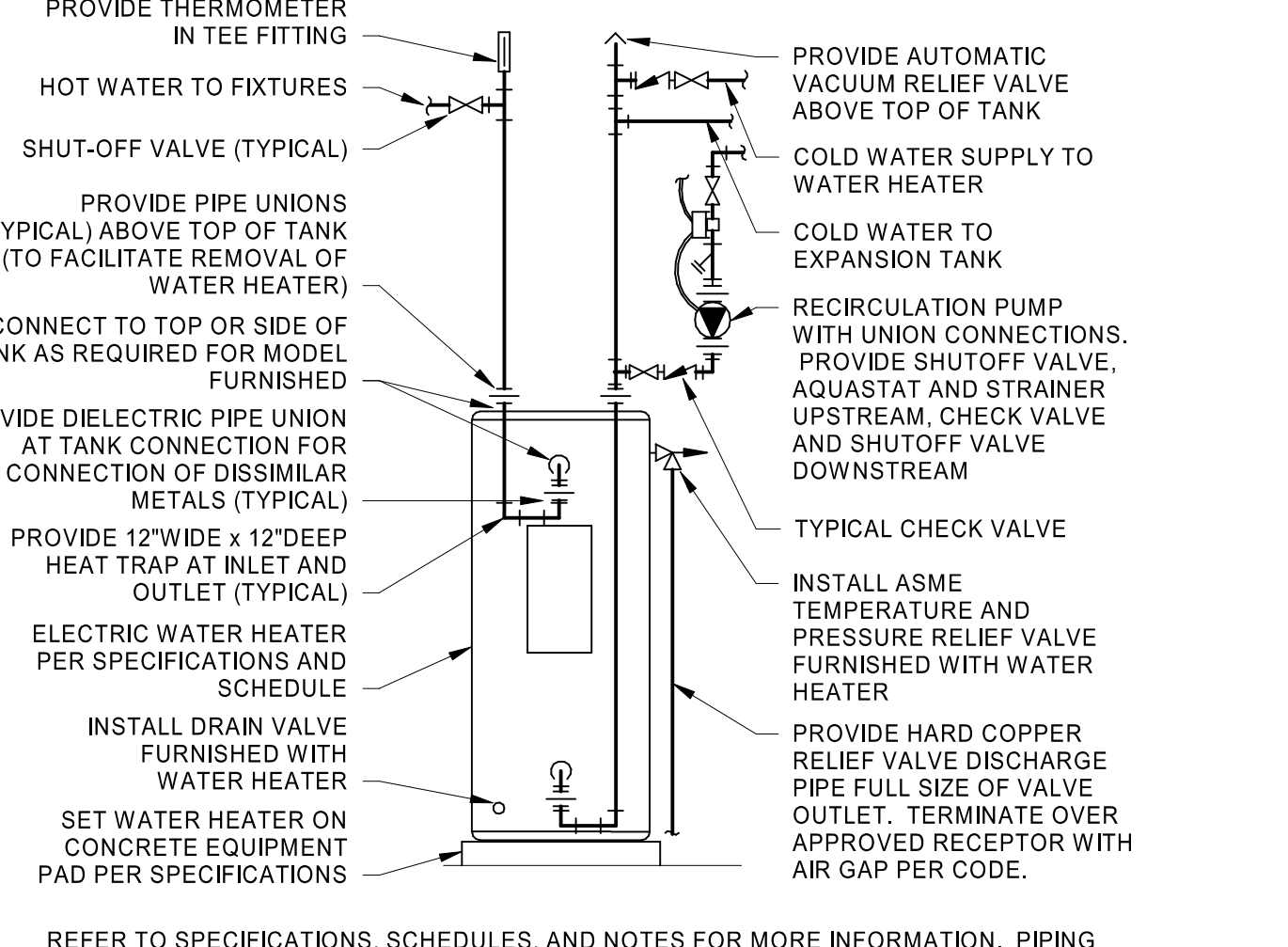
1 DOMESTIC WATER SERVICE ENTRY NTS



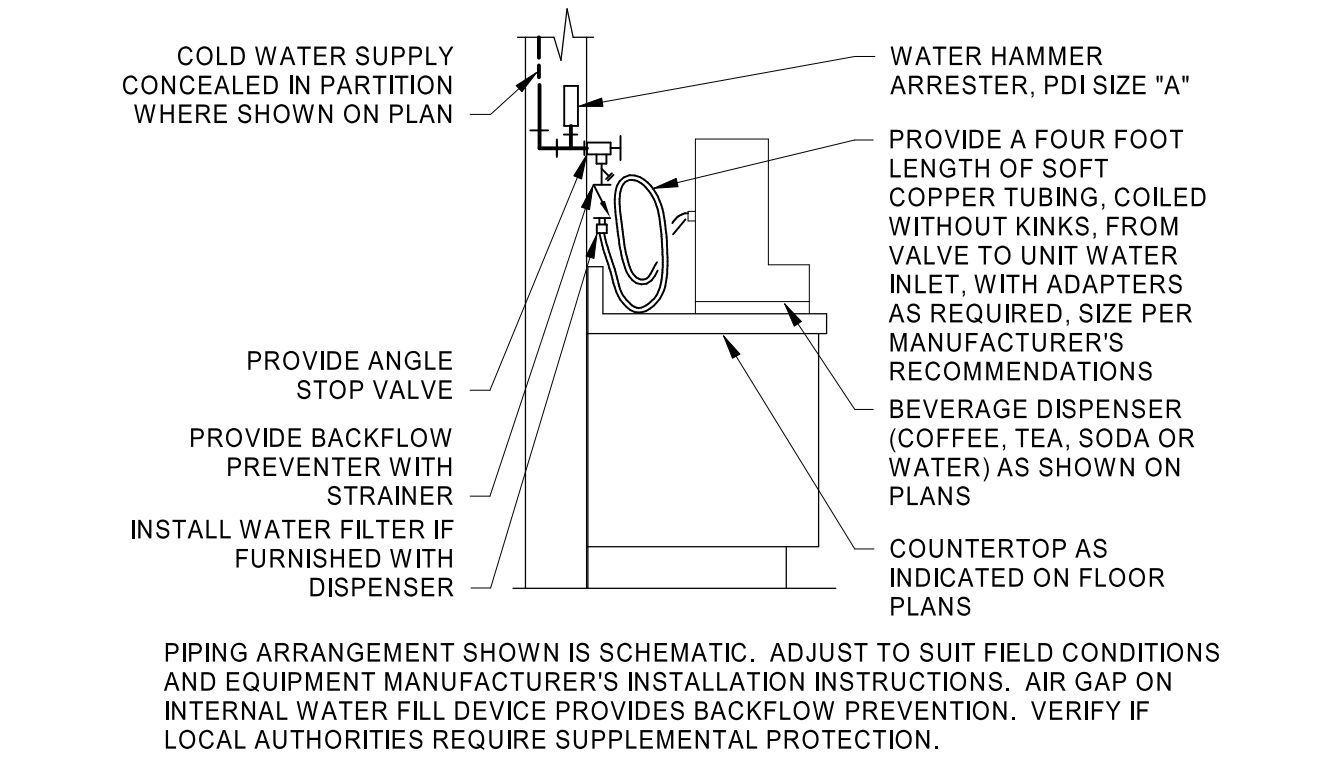
10 ELECTRIC WATER HEATER NTS



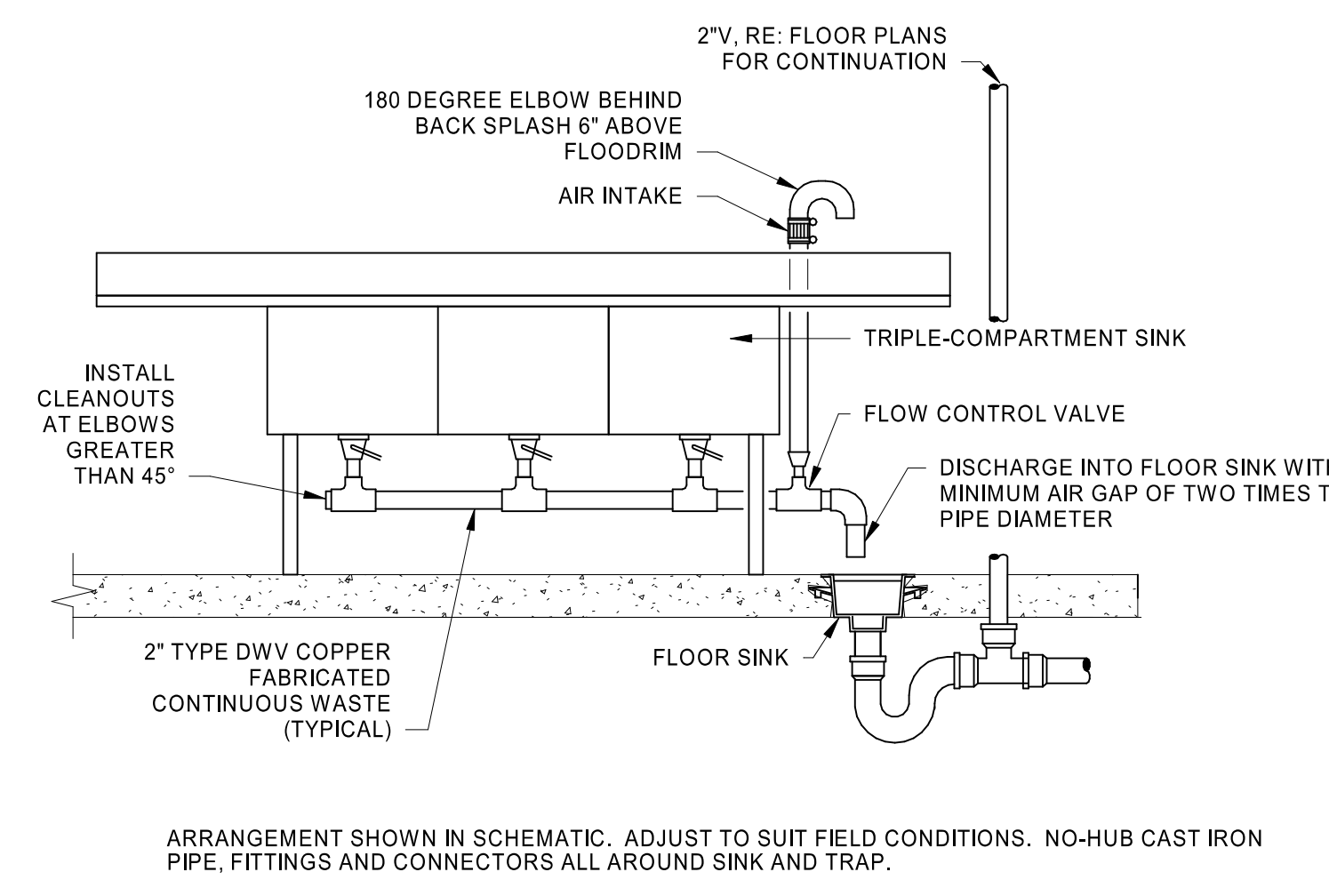
6 ELEVATOR SUMP PUMP NTS



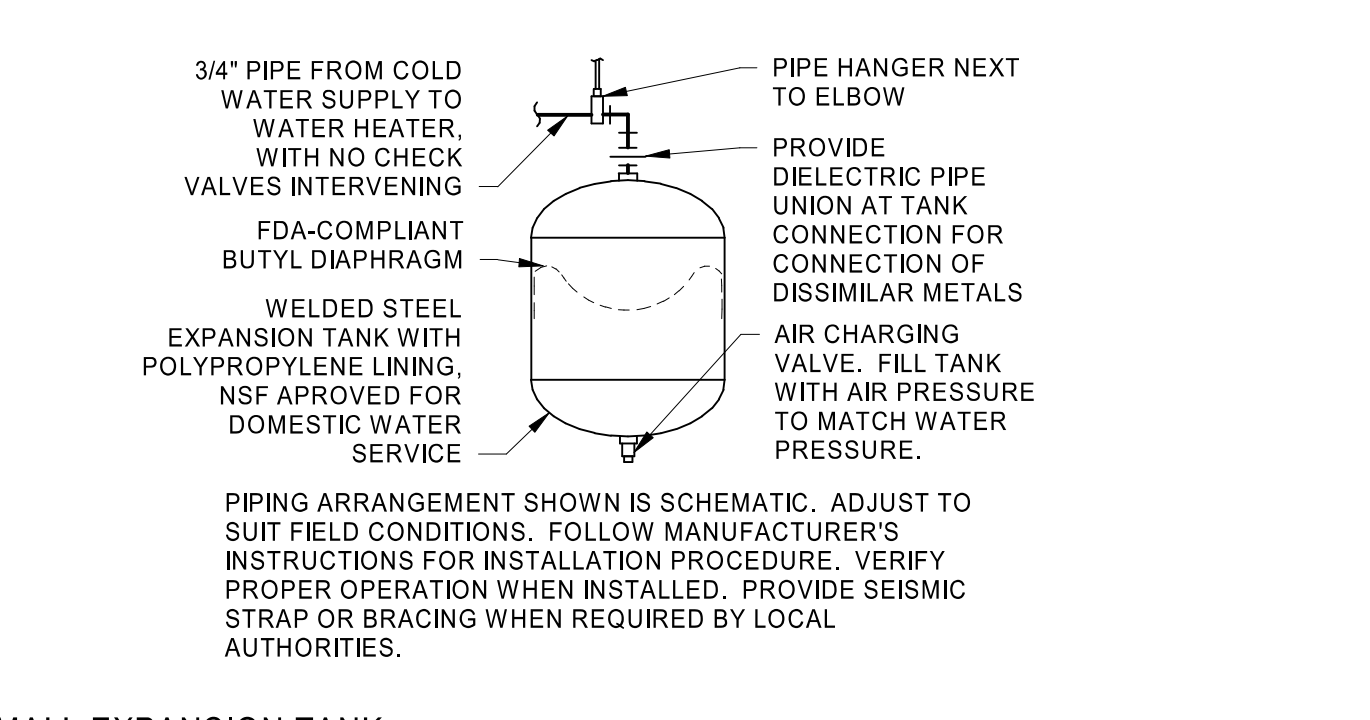
2 ELECTRIC WATER HEATER AND PUMP NTS



11 BEVERAGE DISPENSER CONNECTION NTS



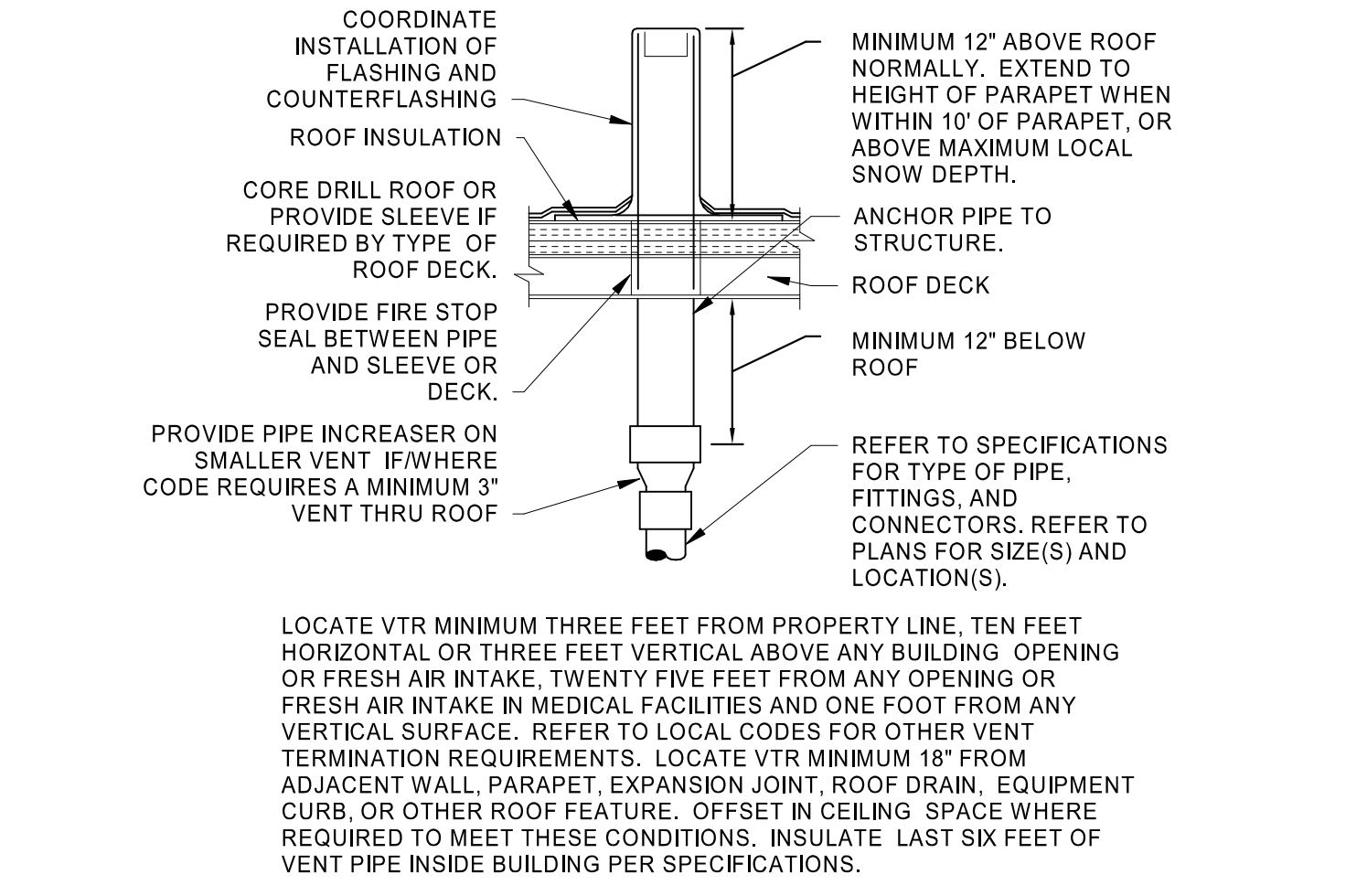
7 UTILITY SINK AND GREASE TRAP NTS



3 SMALL EXPANSION TANK NTS



8 VENT THRU ROOF NTS



4 PIPE HANGER DETAIL NTS

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STATE OF MISSOURI
KELLEY P. CRAMM
REGISTERED PROFESSIONAL ENGINEER
NO. 01119011
EXPIRES 12/31/2020

Sep 25 2020

REVISIONS		
Number	DESCRIPTION	DATE

PROJECT NO: 0119-0101
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PLUMBING DETAILS

H-P500

BID SET

ELECTRIC STORAGE WATER HEATER SCHEDULE

MARK	MANUFACTURER	MODEL#	AREA SERVED	TANK SIZE (GALLONS)	ELECTRICAL DATA			RECOVERY (GPH)	WEIGHT (LBS)	NOTES
					VOLTS	PHASE	KW			
WH1	A.O. SMITH	#DRE-52	RESTROOM BUILDING	50	480	3	15	66	700	A
WH2	A.O. SMITH	#DRE-52	CONCESSION BUILDING	50	480	3	18	74	700	A

NOTES:

- A. 100°F TEMPERATURE RISE WITH 140°F OPERATING TEMPERATURE
- B. DUAL ELEMENT WIRED FOR SIMULTANEOUS OPERATION WITH UNBALANCED THREE PHASE CIRCUIT

ELEVATOR SUMP PUMP SCHEDULE (3/4 HP AND SMALLER)

MARK	MANUFACTURER	MODEL	LOCATION	GPM	HEAD (FT.)	DISCHARGE SIZE (IN.)	ELECTRICAL			NOTES
							VOLTS	PH	HP	
ESP1	WEIL	1411-538	ELEVATOR PIT	50	21	2"	120	1	0.5	A-E

NOTES:

- A. PROVIDE WEIL #W245 FLOAT SWITCH WITH POWER CORD AND PIGGYBACK PLUG.
- B. PROVIDE WITH WEIL #W541X 1015 HIGH LEVEL ALARM WITH AUXILIARY CONTACT. REFER TO SPECIFICATIONS.
- C. PROVIDE 2" DISCHARGE PIPING, SHUTOFF VALVE AND ZOEGLER #300-030 FLAPPER NON-CLOG CHECK VALVE.
- D. REFER TO DETAIL FOR MORE INSTALLATION INFORMATION.
- E. INSTALL IN 24" SQUARE X 24" DEEP SUMP PIT LOCATED IN ELEVATOR PIT. SEE ARCHITECTURAL DRAWINGS.

PLUMBING EXPANSION TANK SCHEDULE

MARK	MANUFACTURER	MODEL	TANK SIZE (GALLONS)	MIN. ACCEPTANCE VOLUME (GALLONS)	SERVICE	WEIGHT (LBS)	NOTES
ET2	AMTROL	ST-5	2	0.9	WH2	22	A

NOTES:

- A. CHARGE TANK WITH AIR TO IDENTICAL PRESSURE AS STATIC DOMESTIC WATER PRESSURE.

RECIRCULATION PUMP SCHEDULE

MARK	MANUFACTURER	MODEL	LOCATION	GPM	HEAD (FT.)	CONNECTION SIZE	ELECTRICAL DATA			NOTES
							VOLTS	PH	HP	
RP1	BELL & GOSSETT	NBF-9U	MEP/CUSTODIAL	1	7	3/4"	120	1	1/18	A, B, C, D

NOTES:

- A. ALL LEAD FREE CAST BRONZE BOOSTER.
- B. PROVIDE WITH STRAINER UPSTREAM OF PUMP.
- C. PROVIDE ADJUSTABLE, SURFACE MOUNTED AQUASTAT - HONEYWELL L8606C.
- D. SET AQUASTAT TO SHUT OFF RECIRCULATION PUMP AT WATER HEATER SET POINT AND ON AT 10°F BELOW SET POINT.

FIXTURE BRANCH CONNECTION SCHEDULE

FIXTURE	COLD WATER		HOT WATER		WASTE		VENT	
	SIZE	TYPE	SIZE	TYPE	SIZE	TYPE	SIZE	TYPE
FLOOR DRAIN					2"		2"	
JANITOR'S SINK	1/2"		1/2"		3"		2"	
LAVATORY/HAND SINK	1/2"		1/2"		2"		1 1/2"	
SINK	1/2"		1/2"		2"		2"	
URINAL	1"		1"		2"		2"	
WATER CLOSET (FLUSH VALVE)	1 1/4"				4"		2"	

NOTE: PIPE SIZES SHOWN ARE MINIMUM.

PLUMBING FIXTURE SCHEDULE

FIXTURES IN THIS SCHEDULE OR THEIR APPROVED EQUIVALENT ARE PROVIDED BY THE PLUMBING CONTRACTOR. SUBMIT SHOP DRAWINGS ON EACH OF THESE ITEMS. REFER TO SPECIFICATIONS FOR FURTHER INFORMATION AND INSTALLATION REQUIREMENTS. VERIFY ROUGH-IN REQUIREMENTS WITH MANUFACTURER'S INSTALLATION INSTRUCTIONS AND INSTALL PER MANUFACTURER'S RECOMMENDATIONS. REFER TO THE ARCHITECTURAL DRAWINGS FOR THE PLUMBING FIXTURE MOUNTING HEIGHTS.

PLUMBING FIXTURE SCHEDULE

PLUMBING PLAN MARK	DESCRIPTION
DCV1	DUAL CHECK VALVE WITH ATMOSPHERIC PORT. WATTS # SD-3, MEETING ASSE 1022 AND NSF 18, 316 STAINLESS STEEL BODY, 3/8" INLET AND OUTLET, ATMOSPHERIC PORT, AND WYE PATTERN STRAINER. PROVIDE 3/4" INDIRECT DRAIN FROM ATMOSPHERIC PORT AND DISCHARGE TO DRAIN WITH AIR GAP.
ECO	EXTERIOR CLEANOUT. JAY R. SMITH # 4251L SERIES DUJCO CAST IRON DOUBLE FLANGED HOUSING WITH HEAVY DUTY SECURED SCORATED CAST IRON COVER WITH LIFTING DEVICE AND CLEANOUT BODY WITH ABS PLASTIC PLUG WITH GASKET SEAL AND PUSH-ON JOINT. REFER TO SPECIFICATIONS FOR INSTALLATION.
FCO	FLOOR CLEANOUT. JAY R. SMITH, CAST IRON BODY, FLASHING FLANGE WITH CLAMPING COLLAR, ABS PLUG, AND ADJUSTABLE, ROUND, SECURED, NICKEL BRONZE, TOP # 4031L (F-C), SCORATED TOP FOR EXPOSED, FLUSH WITH FINISHED FLOOR. APPLICATION(S) # 4031L (F-C-Y), STAINLESS STEEL MARKER FOR INSTALLATION IN CARPETED FLOOR AREA(S), # 4151 (F-C), 1/8" RECESS FOR INSTALLATION IN TILED FLOOR AREA(S), # 4191 (F-C), 1/2" RECESS FOR INSTALLATION IN TERRAZZO AND SIMILAR POURED FLOOR AREA(S). REFER TO SPECIFICATIONS FOR INSTALLATION.
FD1	FLOOR DRAIN. JAY R. SMITH # 2055L (A), CAST IRON BODY AND CLAMPING COLLAR, ADJUSTABLE 6" ROUND NICKEL BRONZE STRAINER. USE PUSH-ON JOINT OF OUTLET SIZE AS SHOWN ON PLANS.
FS1	FLOOR SINK. JAY R. SMITH # 9101L (1-2), 6" DEEP CAST IRON BODY WITH ACID RESISTING ENAMELED INTERIOR, ANCHOR FLANGE WITH SEEPLAGE HOLES, CLAMP COLLAR, WHITE ABS SEDIMENT BUCKET, AND 8-1/2" SQUARE NICKEL BRONZE RIM AND HALF GRATE. USE PUSH-ON JOINT OF OUTLET SIZE AS SHOWN ON PLANS.
JS1	JANITOR'S SINK. STERN-WILLIAMS # MTB-2424, 24" x 24" x 10" HIGH TERRAZZO BASIN WITH INTEGRAL STAINLESS STEEL DRAIN BODY. FAUCET: CHICAGO FAUCET # 897-CP FAUCET WITH WALL BRACE, INTEGRAL VACUUM BREAKER, PULL HOOK, AND 3/4" MALE THREADED OUTLET. SECURE FAUCET IN WALL WITH BACKBOARD. TRIM: # B7 TYPE 304, 20 GAUGE, STAINLESS STEEL SURROUNDS, 4-T-35 THREE FOOT LONG REINFORCED HOSE WITH 3/4" CHROME COUPLING AND WALL HOOK, # V-70 EXTRUDED VINYL BUMPER GUARD, AND # T-40 24" STAINLESS STEEL MOP HANGER.
LV1	WALL-MOUNTED LAVATORY. AMERICAN STANDARD # 0355.012 "LUCERNE" 20-1/2" X 18-1/4" RECTANGULAR WALL MOUNTED WHITE VITREOUS CHINA FIXTURE WITH FAUCET LEDGE AND FRONT OVERFLOW. FAUCET: SLOAN "OPTIMA" # EBF-1874-S CENTERSET, VANDAL RESISTANT, 4" TRIM PLATE, BATTERY POWERED SENSOR OPERATED FAUCET WITH 0.5 GPM AERATOR. TRIM: McGUIRE # 155A GRID DRAIN WITH TAILPIECE, McGUIRE # 2165CCLK LOOSE KEY COMPRESSION ANGLE STOP VALVES WITH RISERS AND ESCUTCHEONS, McGUIRE # B872CF 1-1/4" 17 GAUGE CAST CHROME PLATED BRASS ADJUSTABLE P-TRAP AND WASTE ARM WITH STANCHIONS TO FLOOR AND ESCUTCHEON, CONCEALED ARM CARRIER WITH STANCHIONS TO FLOOR. THERMOSTATIC MIXING VALVE: POWERS # LFG480, SOLID LEAD FREE BRASS OR BRONZE BODY, THERMOSTATIC WAX ELEMENT, CORROSION RESISTANT INTERNAL PARTS, AND INTEGRAL CHECKS, ASSE 1070 COMPLIANT, CAPABLE OF 1.6 GPM WITH A 20 PSI DIFFERENTIAL AND A MINIMUM FLOW RATE OF 0.25 GPM. SET TEMPERATURE TO 110F FOR DUAL TEMPERATURE LAVATORIES AND HAND SINKS, 100F FOR SINGLE TEMPERATURE LAVATORIES AND HAND SINKS AND 120F FOR SINKS. MOUNT BELOW THE PLUMBING FIXTURE.
NW1	NON-FREEZE WALL HYDRANT. PRIER PRODUCTS # C-654NBX1, SATIN NICKEL PLATED BRASS 1" MALE INLET BY 3/4" FEMALE INLET, 3/4" THREADED HOSE CONNECTION, LOOSE KEY HANDLE, HYDRANT LENGTH AS REQUIRED FOR INSTALLED WALL THICKNESS, ADJUSTABLE WALL CLAMP, BRASS BOX WITH SATIN NICKEL PLATED FINISH AND INTEGRAL ASSE 1052 DOUBLE CHECK VACUUM BREAKER.
RPZ1	REDUCED PRESSURE ZONE BACKFLOW PREVENTER. WATTS # 957-NRS. MEETING ASSE 1015, 304 STAINLESS STEEL BODY AND SLEEVES, QUARTER TURN TEST COCKS, RESILIENT SEATED NON-RISING STEM GATE VALVES AND WATTS #77F-2H-FDA EPOXY COATED CAST IRON STRAINER AND # 957AG AIR GAP FITTING.
SK1	HAND SINK (ADA ACCESSIBLE). HAND SINK ADA ACCESSIBLE. ELKAY # #CHS-1716, 16-3/4" X 15-1/2" RECTANGULAR, WALL MOUNTED, 18 GAUGE TYPE 304 STAINLESS STEEL, BACKSPLASH AND SIDE BRACKETS AND WALL MOUNTING BRACKET. FAUCET: CHICAGO FAUCET # 651-28017AB 6" BACK MOUNT FAUCET WITH 7 1/2" X 3" ADJUSTABLE 1" SUPPLY ARMS, VANDAL RESISTANT 17" WHISTLEBLADE HANDLES, GN2A GOOSENECK SPOUT, # E61VP, 5 GPM VANDAL RESISTANT LAMINAR FLOW AERATOR, QUARTER TURN CERAMIC CARTRIDGES. TRIM: McGUIRE # "PRODRAIN" GRID DRAIN WITH 1-1/2" 17 GAUGE TAILPIECE, McGUIRE # LF2165CCLK LEAD FREE BRASS LOOSE KEY COMPRESSION ANGLE STOP VALVES WITH RISERS AND ESCUTCHEONS, McGUIRE # B897CF 1-1/2" 17 GAUGE CAST CHROME PLATED BRASS ADJUSTABLE P-TRAP AND WASTE ARM WITH CLEANOUT PLUG AND ESCUTCHEON, WALL BRACKET, PROVIDE BACKBOARD AND SECURE FIXTURE TO IT, AND PLUMBEREX "PRO-EXTREME" # X-4222 INSULATION KIT FOR WATER AND WASTE PIPES. THERMOSTATIC MIXING VALVE: POWERS # LFG480, SOLID LEAD FREE BRASS OR BRONZE BODY, THERMOSTATIC WAX ELEMENT, CORROSION RESISTANT INTERNAL PARTS, AND INTEGRAL CHECKS, ASSE 1070 COMPLIANT, CAPABLE OF 1.6 GPM WITH A 20 PSI DIFFERENTIAL AND A MINIMUM FLOW RATE OF 0.25 GPM. SET TEMPERATURE TO 110F FOR DUAL TEMPERATURE LAVATORIES AND HAND SINKS, 100F FOR SINGLE TEMPERATURE LAVATORIES AND HAND SINKS AND 120F FOR SINKS. MOUNT BELOW THE PLUMBING FIXTURE.
SK2	SINK. ELKAY # WNSF-8345-LR, THREE 15" x 24" x 14" DEEP COMPARTMENTS, LEFT AND RIGHT DRAINBOARDS, 8" HIGH BACKSPLASH, 14 GAUGE TYPE 304 STAINLESS STEEL, AND 18 GAUGE STAINLESS STEEL, ADJUSTABLE LEGS. FAUCET: CHICAGO FAUCET #445-20578AB 3 3/8" BACK MOUNT FAUCET WITH 3" - 3 3/8" ADJUSTABLE "R" ARMS WITH INTEGRAL SHUT OFF, VANDAL RESISTANT # 369 LEVER HANDLES, L9 SWING SPOUT, # E1 FULL FLOW OUTLET, QUARTER TURN CERAMIC CARTRIDGES. TRIM: (3) ELKAY # LK42RT GRID STRAINERS WITH LEVER HANDLE AND 1-1/2" TAILPIECE, AND 1-1/2" HARD COPPER TYPE "DW" FABRICATED INDIRECT WASTE LINE ROUTED TO FLOOR SINK.
T-1	TRANSFORMER. SLOAN # EL-154 120 VAC / 24 VAC, 50 VA. REFER TO ELECTRICAL DRAWINGS FOR WIRING OF TRANSFORMER.
TS1	TIME SWITCH. INTERMATIC #ET1705CSPST, 7 DAY, ONE CIRCUIT-SINGLE POLE SINGLE THROW, ELECTRONIC TIME SWITCH OR EQUAL BY TORK. TIME SWITCH SHALL BE MOTOR RATED (1 1/2" @ 120 VOLT, SINGLE PHASE), MINIMUM OF 20 SET POINTS (14 ON/OFF CYCLES) AND BATTERY BACK UP. COORDINATE WITH DIVISION 16 FOR INSTALLATION AND INTERLOCK OF TIME SWITCH IN SERIES WITH THE AQUASTAT AND RECIRCULATION PUMP.
UR1	URINAL. AMERICAN STANDARD # 6561.017 "TRIMBROOK" WHITE VITREOUS CHINA FIXTURE WITH FLUSHING RIM, 3/4" TOP SPUD, AND SIPHON FLUSH ACTION. VALVE: SLOAN "OPTIMA" - SLOAN MODEL # 186 ES-S TMO 1.0 GALLON PER FLUSH, EXPOSED, CHROME-PLATED, HARD WIRED, WALL MOUNTED SENSOR OPERATED, DIAPHRAGM TYPE, FLUSH VALVE LESS TRANSFORMER WITH CHLORAMINE RESISTANT DIAPHRAGM AND PROTECTED ORIFICE, MECHANICAL OVERRIDE BUTTON, ESCUTCHEON, INTEGRAL SCREWDRIVER STOP, VACUUM BREAKER, 3/4" FLUSH TUBE, AND SWEAT ADAPTER KIT. TRIM: SUITABLE CARRIER WITH STANCHIONS TO FLOOR.
UR2	URINAL (ADA ACCESSIBLE). AMERICAN STANDARD # 6561.017 "TRIMBROOK" WHITE VITREOUS CHINA FIXTURE WITH FLUSHING RIM, 3/4" TOP SPUD, AND SIPHON FLUSH ACTION. VALVE: SLOAN "OPTIMA" - SLOAN MODEL # 186 ES-S TMO 1.0 GALLON PER FLUSH, EXPOSED, CHROME-PLATED, HARD WIRED, WALL MOUNTED SENSOR OPERATED, DIAPHRAGM TYPE, FLUSH VALVE LESS TRANSFORMER WITH CHLORAMINE RESISTANT DIAPHRAGM AND PROTECTED ORIFICE, MECHANICAL OVERRIDE BUTTON, ESCUTCHEON, INTEGRAL SCREWDRIVER STOP, VACUUM BREAKER, 3/4" FLUSH TUBE, AND SWEAT ADAPTER KIT. TRIM: SUITABLE CARRIER WITH STANCHIONS TO FLOOR.
WC1	WALL-MOUNTED WATER CLOSET. AMERICAN STANDARD # 3351.101 "AFWALL MILLENNIUM FLOWWISE" WHITE VITREOUS CHINA FIXTURE WITH ELONGATED UNIVERSAL BOWL AND DIRECT-FED SIPHON JET ACTION. VALVE: SLOAN "OPTIMA" - SLOAN MODEL # 111-1.6 ES-S TMO 1.6 GALLON PER FLUSH, EXPOSED, CHROME-PLATED, HARD WIRED, SENSOR OPERATED, DIAPHRAGM TYPE, FLUSH VALVE LESS TRANSFORMER WITH CHLORAMINE RESISTANT DIAPHRAGM AND PROTECTED ORIFICE, MANUAL OVERRIDE, ESCUTCHEON, INTEGRAL SCREWDRIVER STOP, VACUUM BREAKER, AND SWEAT ADAPTER KIT. TRIM: CHURCH # 9505SCT WHITE OPEN-FRONT CONTOURED, SOLID PLASTIC, HEAVY DUTY, SEAT LESS COVER WITH SELF-SUSTAINING CHECK HINGES AND STAINLESS STEEL BOLTS. PROVIDE SUITABLE FIXTURE CARRIER.
WC2	WALL-MOUNTED WATER CLOSET (ADA ACCESSIBLE). AMERICAN STANDARD # 3351.101 "AFWALL MILLENNIUM FLOWWISE" WHITE VITREOUS CHINA FIXTURE WITH ELONGATED UNIVERSAL BOWL AND DIRECT-FED SIPHON JET ACTION. VALVE: SLOAN "OPTIMA" - SLOAN MODEL # 111-1.6 ES-S TMO 1.6 GALLON PER FLUSH, EXPOSED, CHROME-PLATED, HARD WIRED, SENSOR OPERATED, DIAPHRAGM TYPE, FLUSH VALVE LESS TRANSFORMER WITH CHLORAMINE RESISTANT DIAPHRAGM AND PROTECTED ORIFICE, MANUAL OVERRIDE, ESCUTCHEON, INTEGRAL SCREWDRIVER STOP, VACUUM BREAKER, AND SWEAT ADAPTER KIT. INSTALL FLUSH VALVE HANDLE ON THE WIDE SIDE OF THE STALL. TRIM: CHURCH # 9505SCT WHITE OPEN-FRONT CONTOURED, SOLID PLASTIC, HEAVY DUTY, SEAT LESS COVER WITH SELF-SUSTAINING CHECK HINGES AND STAINLESS STEEL BOLTS. PROVIDE SUITABLE FIXTURE CARRIER.
WCO	WALL CLEANOUT. SIOUX CHIEF #873 SERIES, BRASS COUNTERSINK PLUG, 20 GAUGE STAINLESS STEEL COVER AND SCREW. CLEANOUT TEE TO BE PROVIDED SEPARATELY. REFER TO SPECIFICATIONS FOR INSTALLATION.
WHA	WATER HAMMER ARRESTER. PRECISION PLUMBING PRODUCTS, HARD DRAWN COPPER BODY WITH WROUGHT COPPER FITTINGS, PISTON TYPE WITH LUBRICATED EPDM O-RING SEALS, MEETING ASSE 1010 OR PDI WH-201. PROVIDE PDI SIZES "A" THROUGH "F" AS SHOWN ON PLANS. PROVIDE SIZE "A" UNLESS SHOWN OTHERWISE ON THE PLANS.

Lee's Summit R7 District Athletics Facilities

Lee's Summit High School
400 SW Blue Parkway
Lee's Summit, MO 64063

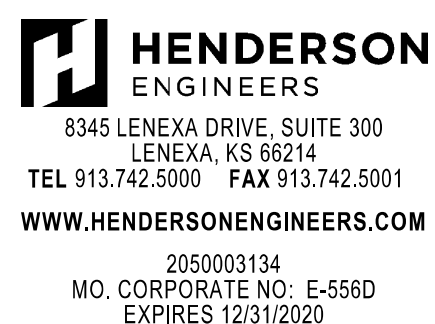
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Sep 25 2020

REVISIONS

Number	DESCRIPTION	DATE

PROJECT NO: 0119-0101
DATE: September 28, 2020

PLUMBING SCHEDULES

H-P600

BID SET

KELLEY P. CRAMM

Lee's Summit R7 District
Athletics Facilities

Lee's Summit High School
400 SW Blue Parkway
Lee's Summit, MO 64063

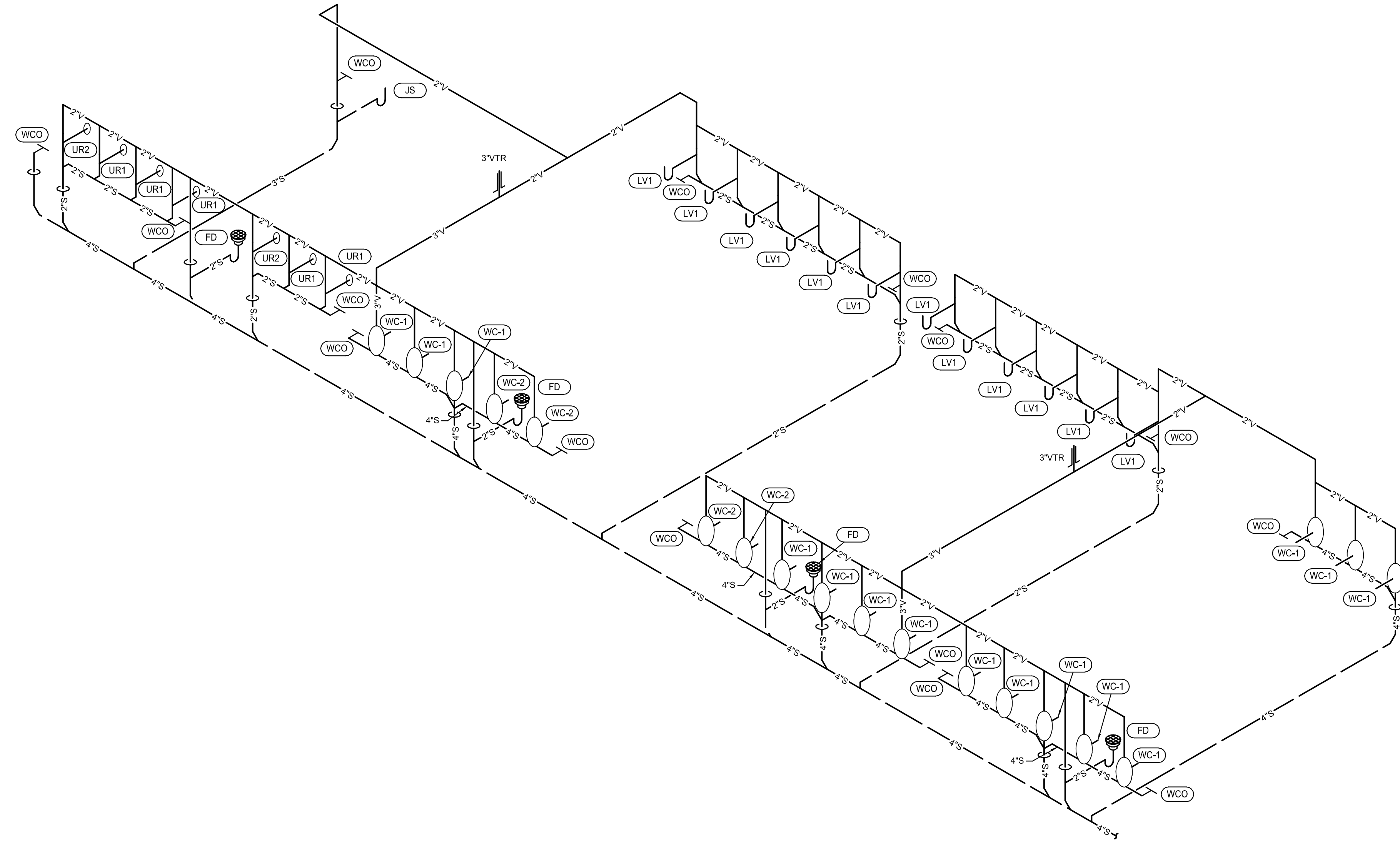
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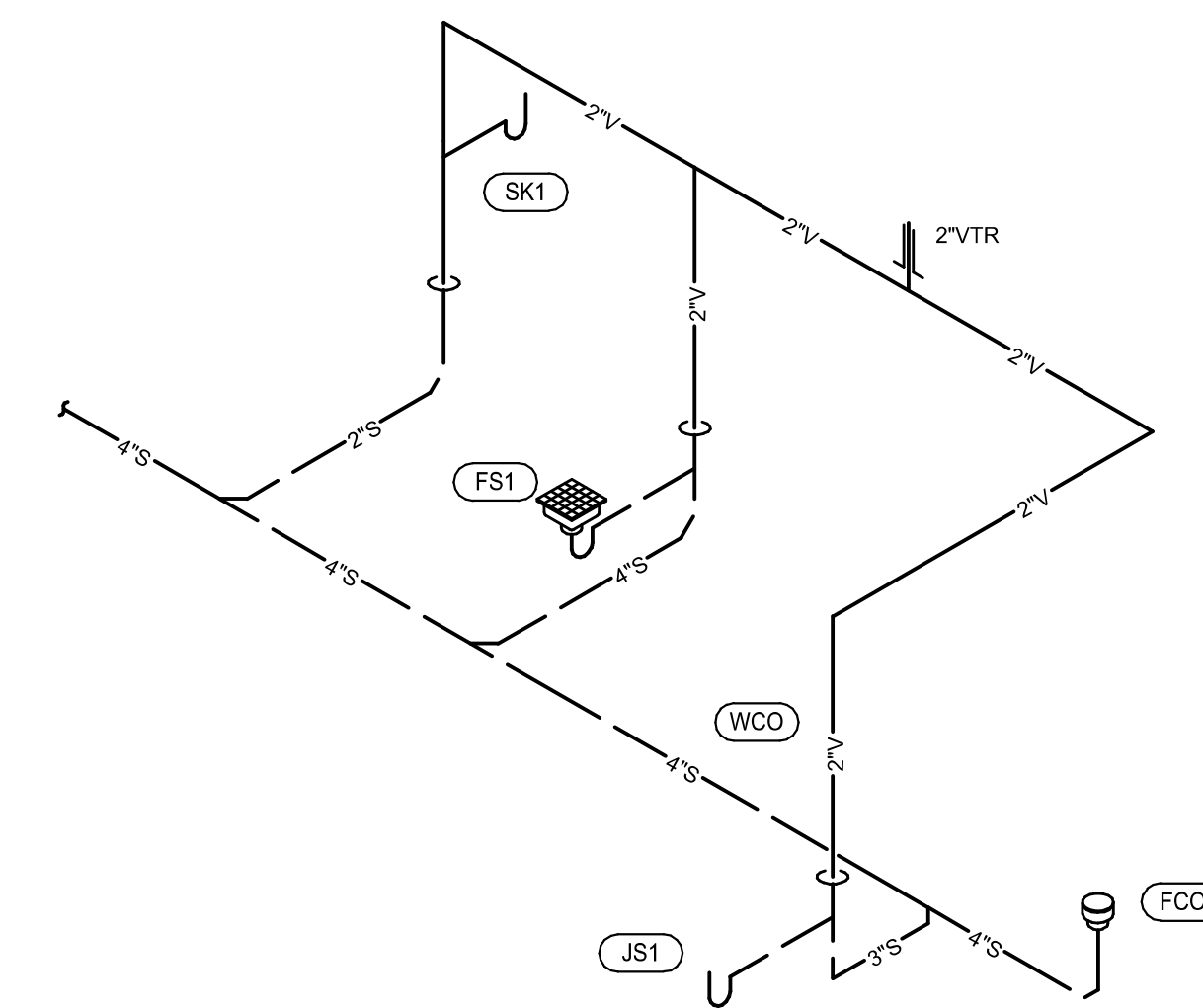
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1 PLUMBING RESTROOM WASTE AND VENT RISER
NTS



2 PLUMBING CONCESSION WASTE AND VENT RISER
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EXPIRES 12/31/2020



Sep 25 2020

REVISIONS

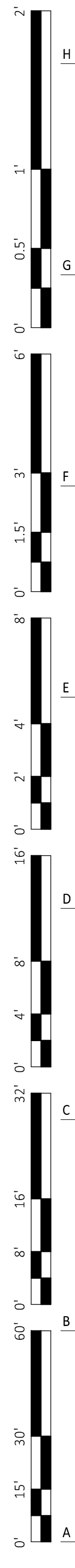
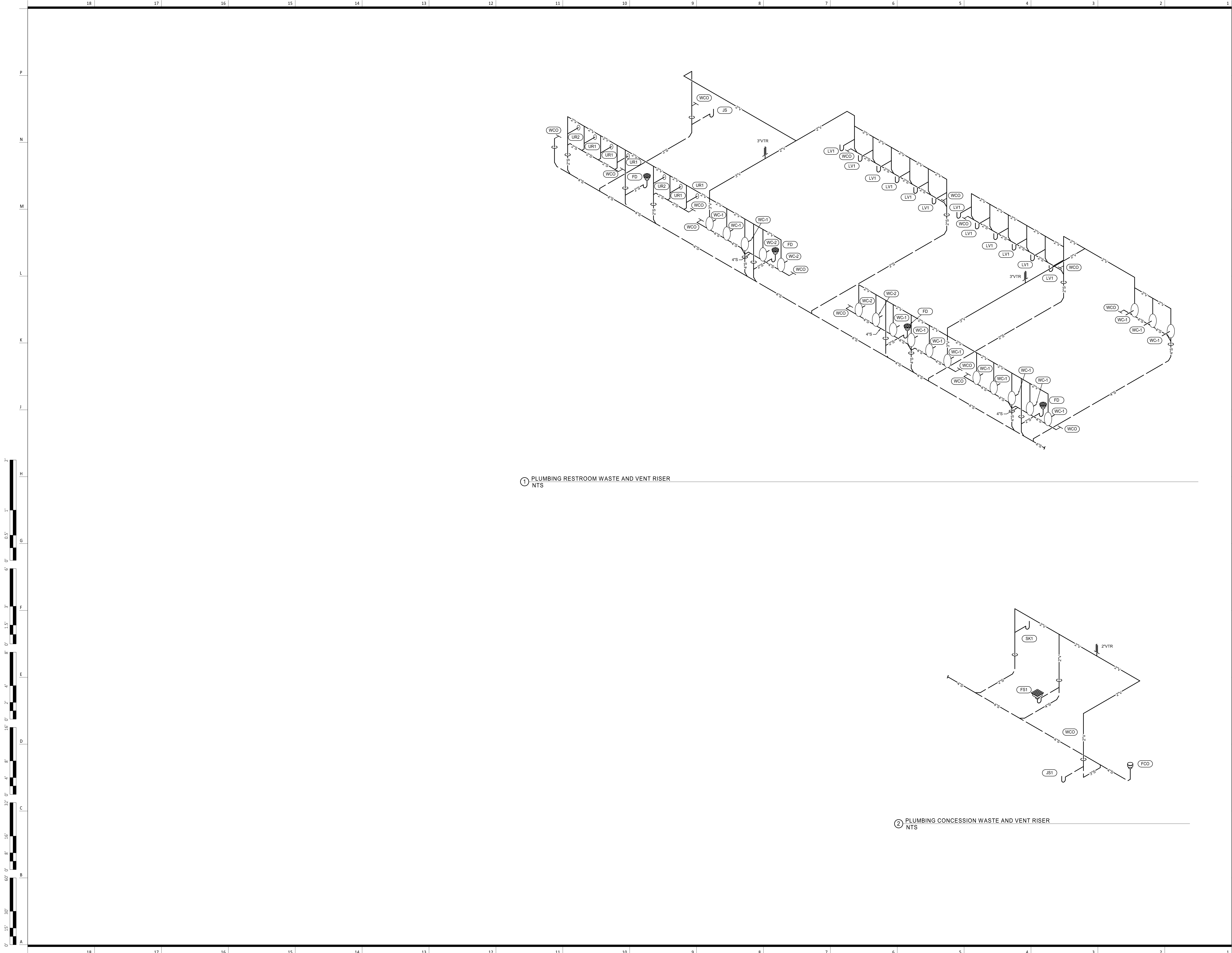
Number	DESCRIPTION	DATE

PROJECT NO: 0119-0101
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PLUMBING RISERS

H-P700

BID SET



MECHANICAL SYMBOLS

THIS IS A MASTER LEGEND AND NOT ALL SYMBOLS OR ABBREVIATIONS ARE USED.

V2.06

STANDARD MOUNTING HEIGHT	
THERMOSTATS (USER ADJUSTABLE) (TOP OF DEVICE) CONTROLS (TOP OF DEVICE)	48" 48"
INSTALL DEVICES AT THE MOUNTING HEIGHTS SHOWN ABOVE UNO IN THE CONSTRUCTION DOCUMENTS. MOUNTING HEIGHTS LISTED ABOVE OR ELSEWHERE IN THE CONSTRUCTION DOCUMENTS ARE AFF OR AFG TO BOTTOM OF DEVICE UNO. ALL DEVICES SHALL BE INSTALLED IN COMPLIANCE WITH CURRENT ADA AND LOCAL REQUIREMENTS.	
ANNOTATION	
MECHANICAL PLAN NOTE CALLOUT	
MECHANICAL EQUIPMENT DESIGNATION (CONTRACTOR FURNISHED AND INSTALLED UNLESS NOTED OTHERWISE)	
CONNECTION POINT OF NEW WORK TO EXISTING	
DETAIL REFERENCE. UPPER NUMBER INDICATES DETAIL NUMBER LOWER NUMBER INDICATES SHEET NUMBER	
SECTION CUT DESIGNATION	

ABBREVIATIONS	
AIC AIR CONDITIONING	HWP HEATING WATER PUMP
ACC AIR COOLED CHILLER	IN WC INCHES OF WATER COLUMN
ACCU AIR COOLED CONDENSING UNIT	L LEAVING AIR
AFC ABOVE FINISHED CEILING	LAT LEAVING AIR TEMPERATURE
AFB ABOVE FINISHED FLOOR	LDB LEAVING DRY BULB
AFG ABOVE FINISHED GRADE	LPB LOW PRESSURE
AHJ AUTHORITY HAVING JURISDICTION	LWB LEAVING WET BULB
AHU AIR HANDLING UNIT	LWT LEAVING WATER TEMPERATURE
AI ANALOG INPUT	MAU MAKE-UP AIR UNIT
AO ANALOG OUTPUT	MAX MAXIMUM
AP ACCESS PANEL	MBH 1000 BTU PER HOUR
APD AIR PRESSURE DROP	MD MOTORIZED DAMPER
AWG AMERICAN WIRE GAUGE	MFR MANUFACTURER
B BOILER	MIN MINIMUM
BAS BUILDING AUTOMATION SYSTEM	N/A NOT APPLICABLE
BB BACKBONE	NC NORMALLY CLOSED
BD BACKDRAFT DAMPER	NO NORMALLY OPEN
BD BLOWDOWN	NOM NOMINAL
BFC BELOW FINISHED CEILING	NO NOISE CRITERIA
BFF BELOW FINISHED FLOOR	NF NON-FUSED
BFG BELOW FINISHED GRADE	NIC NOT IN CONTRACT
BFP BOILER FEED PUMP	OA OUTSIDE AIR
BHP BRAKE HORSEPOWER	PCV PRESSURE INDEP. CONTROL VALVE
BI BINARY INPUT	PROVIDE FURNISH AND INSTALL
BO BINARY OUTPUT	QTY QUANTITY
BOD BOTTOM OF DUCT	RA RETURN AIR
BOS BOTTOM OF STRUCTURE	RA ROOM CRITERIA
BTU BRITISH THERMAL UNIT	RD RETURN DUCT
CFM CUBIC FEET PER MINUTE	REA RELIEF AIR
CH CHILLER	RF RETURN FAN
CLG COOLING	RFR REFRIGERANT
CP CONDENSATE PUMP	RH RELATIVE HUMIDITY
CPT CONTROL POWER	RJ ROOF JOIST
CR TRANSFORMER	RPM REVOLUTIONS PER MINUTE
CRAC COMPUTER ROOM AIR CONDITIONING UNIT	RTU ROOFTOP UNIT
CRU COMPUTER ROOM UNIT	SA SUPPLY AIR
CT COOLING TOWER	SCP STEAM CONDENSATE PUMP
CV CONTROL VALVE	SD SMOKE DUCT DETECTOR
CWP CONDENSER WATER PUMP	SD SUPPLY DUCT
CU CONDENSING UNIT	SF SUPPLY FAN
CHWP CHILLED WATER PUMP	SH SENSIBLE HEAT CAPACITY
DB DECIBELS	SOW SCOPE OF WORK
DBA DECIBEL AVERAGE	SP STATIC PRESSURE
DDC DIRECT DIGITAL CONTROL	ST STEAM TRAP
DI DIGITAL INPUT	STM STEAM
DISC DISCONNECT	TBD TO BE DETERMINED
DN DOWN	TCC CONTRACTOR TEMPERATURE CONTROLS
DS DUCT SILENCER	TCF TEMPERATURE CONTROL PANEL
DX DIRECT EXPANSION	TF TRANSFER FAN
(E) EXISTING	TFA TO FLOOR ABOVE
EA EXHAUST AIR	TFB TO FLOOR BELOW
EAT AIR TEMPERATURE	TH TOTAL HEAT CAPACITY
ED EXHAUST DUCT	TSP TOTAL STATIC PRESSURE
EDB ENTERING DRY BULB	TT TEMPERATURE TRANSMITTAL
EF EXHAUST FAN	TYP TYPICAL
EFF EFFICIENCY	UF UNDERFLOOR
EMS ENERGY MANAGEMENT SYSTEM	UG UNDERGROUND
ESP EXTERNAL STATIC PRESSURE	US UNDERSLAB
ETR EXISTING TO REMAIN	UH UNIT HEATER
EWB ENTERING WET BULB	UNO UNLESS NOTED OTHERWISE
EWT ENTERING WATER TEMPERATURE	VAV VARIABLE AIR VOLUME
FCU FAN COIL UNIT	VEL VELOCITY
FFA FROM FLOOR ABOVE	VFD VARIABLE FREQUENCY DRIVE
FFB FROM FLOOR BELOW	VRF VARIABLE REFRIGERANT FLOW
FF FINISHED FLOOR	VRV VARIABLE REFRIGERANT VOLUME
FPI FINS PER INCH	W WITH
FFM FEET PER MINUTE	WO WITHOUT
GC GENERAL CONTRACTOR	WB WET BULB
GPM GALLONS PER MINUTE	WC WATER COLUMN
HGA HAND-OFF-AUTOMATIC	WPD WATER PRESSURE DROP
HP HORSEPOWER	XP EXPLOSION PROOF
HTG HEATING	

LINEAR SLOT DIFFUSER	INSULATED FLEXIBLE DUCT (MAX. 5'-0" LONG)
BRANCH DUCT WITH 45° RECTANGLE-ROUND BRANCH FITTING AND MANUAL VOLUME DAMPER	ELBOW WITH TURNING VANES
BRANCH DUCT WITH BELL-MOUTH FITTING & MANUAL VOLUME CONTROL DAMPER	RETURN, EXHAUST, OR OUTSIDE AIR DUCT UP
RETURN, EXHAUST, OR OUTSIDE AIR DUCT DOWN	SUPPLY AIR DUCT UP
SUPPLY AIR DUCT DOWN	EQUIPMENT WITH FLEXIBLE DUCT CONNECTION
10" (NECK SIZE) CSD-1 (TYPE) 300 CFM (CFM OF SUPPLY DIFFUSER OR REGISTER) LOUVER	24x24 (NECK SIZE) CEG-1 (TYPE) 800 CFM (CFM OF EXHAUST GRILLE)
MANUAL VOLUME DAMPER	SQUARE TO ROUND TRANSITION
DUCT MOUNTED SMOKE DETECTOR (SD=SUPPLY/RD=RETURN)	ROUND DUCT TAG INDICATING DIAMETER
XX" x ϕ RECTANGULAR DUCT TAG INDICATING INTERNAL DUCT DIMENSIONS.	XX' x XX' FLAT OVAL DUCT TAG INDICATING INTERNAL DUCT DIMENSIONS
RISER DESIGNATION	FIRE DAMPER
FIRE SMOKE DAMPER	SMOKE DAMPER
VOLUME DAMPER	MOTORIZED DAMPER
BACKDRAFT DAMPER	
ALL DUCT DIMENSIONS SHOWN ON DRAWINGS ARE INSIDE DIMENSIONS. REFER TO DUCTWORK SPECIFICATIONS FOR DUCTWORK INSULATION AND LINER INFORMATION.	
HVAC CONTROL DEVICES	
HUMIDISTAT	THERMOSTAT
STATIC PRESSURE SENSOR	TEMPERATURE SENSOR
CARBON MONOXIDE SENSOR	CARBON DIOXIDE SENSOR
DIFFERENTIAL PRESSURE SENSOR	FLOW SWITCH
HUMIDITY SENSOR	PULL STATION
REMOTE TESTING STATION WITH INDICATING LIGHT	STATIC PRESSURE
TEMPERATURE SENSOR	

PIPING SYMBOLS	
DIRECTION OF FLOW	CONTROL VALVE
THREE-WAY CONTROL VALVE	SHUTOFF VALVE
CHECK VALVE	BALANCING VALVE WITH PRESSURE PORTS
TRIPLE DUTY VALVE WITH PRESSURE PORTS	STRAINER
STRAINER WITH BLOWDOWN VALVE	RELIEF / SAFETY VALVE
SOLENOID VALVE	PRESSURE REDUCING VALVE
GAS PRESSURE REGULATOR	THERMOSTATIC MIXING VALVE
PIPE ANCHOR	EXPANSION JOINT
PIPE GUIDE	PIPING SUPPORT
F & T TRAP	BUCKET TRAP
THERMOSTATIC TRAP	BACKFLOW PREVENTER
PRESSURE GAUGE	THERMOMETER
PRESSURE AND TEMPERATURE TEST PLUG	UNION
FLANGE CONNECTION	VACUUM RELIEF VALVE
AUTOMATIC AIR VENT	MANUAL AIR VENT
PRESSURE / VACUUM SWITCH	CLEANOUT
CAP	ELBOW UP
ELBOW DOWN	TEE UP
TEE DOWN	ELBOW UP WITH SHUT-OFF VALVE (SOV)
ELBOW DOWN WITH SHUT-OFF VALVE (SOV)	TEE UP WITH SHUT-OFF VALVE (SOV)
TEE DOWN WITH SHUT-OFF VALVE (SOV)	REDUCER
RECIRCULATION PUMP	P-TRAP
GAS COCK	TOP BEAM CLAMP
TRAPEZE HANGER	FLEXIBLE CONNECTION

PIPING LINETYPES	
CD CONDENSATE DRAIN (CD)	ACD AUXILIARY CONDENSATE DRAIN (ACD)
NPW NON-POTABLE WATER (NPW)	G NATURAL GAS (G)
G NATURAL GAS ON ROOF (G)	MPG MEDIUM PRESSURE NATURAL GAS (MPG)
MPG MEDIUM PRESSURE NATURAL GAS ON ROOF (MPG)	FOS FUEL OIL SUPPLY (FOS)
FOR FUEL OIL RETURN (FOR)	FOV FUEL OIL VENT (FOV)
LPG LIQUEFIED PETROLEUM GAS (LPG)	BFW BOILER FEED WATER (BFW)
HPS HIGH PRESSURE STEAM SUPPLY (HPS)	HPC HIGH PRESSURE STEAM CONDENSATE (HPC)
LPS LOW PRESSURE STEAM SUPPLY (LPS)	LPC LOW PRESSURE STEAM CONDENSATE (LPC)
PD CONDENSATE PUMP DISCHARGE (PD)	HWS HEATING HOT WATER SUPPLY (HWS)
HWR HEATING HOT WATER RETURN (HWR)	CHWS CHILLED WATER SUPPLY (CHWS)
CHWR CHILLED WATER RETURN (CHWR)	HCS HOT / CHILLED WATER SUPPLY (HCS)
HCR HOT / CHILLED WATER RETURN (HCR)	CWS CONDENSER WATER SUPPLY (CWS)
CWR CONDENSER WATER RETURN (CWR)	HPWS HEAT PUMP WATER SUPPLY (HPWS)
HPWR HEAT PUMP WATER RETURN (HPWR)	RL REFRIGERANT LIQUID (RL)
RD REFRIGERANT DISCHARGE (HOT GAS) (RD)	RS REFRIGERANT SUCTION (RS)
RDB REFRIGERANT DISCHARGE BYPASS (RDB)	RV REFRIGERANT VENT (RV)

LINETYPE LEGEND	
THROUGHOUT THE DRAWINGS DIFFERENT LINETYPES ARE USED IN COMBINATION WITH THE SYMBOLS TO INDICATE THE STATUS OF ITEMS AS EXISTING, TO BE DEMOLISHED, TO BE INCLUDED AS PART OF NEW WORK AND/OR ITEMS WHICH ARE ANTICIPATED TO BE PROVIDED IN THE FUTURE. THE STATUS OF ITEMS USING THESE LINETYPES ARE RELATIVE TO THE VIEW IN WHICH THEY APPEAR. PHASING SHOWN IN DRAWINGS IS NOT INTENDED TO FULLY DESCRIBE ALL NECESSARY CONSTRUCTION PHASING, WHICH IS DETERMINED BY THE CONTRACTOR AS PART OF THEIR RESPONSIBILITIES. ANY SUCH PHASING DESCRIBED IN THE CONSTRUCTION DOCUMENTS ARE GENERAL AND ONLY INTENDED TO INDICATE A BROAD ORDER FOR THE SAKE OF DESCRIBING THE PROJECT. THE FOLLOWING LINETYPES MAY BE USED ON ANY DEVICE, EQUIPMENT, NOTE, LINE, SHAPE, ETC.	
EXISTING _____	NEW _____
DEMOLISH - - - - -	FUTURE - - - - -

GENERAL NEW NOTES:

- PRIOR TO SUBMITTING BID, VISIT THE JOB SITE AND BECOME FULLY ACQUAINTED WITH THE EXISTING CONDITIONS OF THE PROJECT. REVIEW THE GENERAL NOTES, SPECIFICATIONS AND OTHER DRAWINGS FOR ADDITIONAL REQUIREMENTS WHICH MAY NOT BE SPECIFICALLY CALLED OUT IN THIS PORTION OF THE CONSTRUCTION DOCUMENTS. NOTIFY ARCHITECT, ENGINEER AND/OR OWNER OF CONFLICTS OR DISCREPANCIES PRIOR TO SUBMISSION OF BID.
- EXISTING CONDITIONS WERE TAKEN FROM ORIGINAL DRAWINGS AND SITE VISITS AND MAY NOT REFLECT EXACT "AS-BUILT" CONDITIONS. FIELD VERIFY EXISTING CONDITIONS PRIOR TO SUBMITTING FINAL BIDS. COORDINATE NEW WORK AND DEMOLITION WITH OTHER DISCIPLINES AND EXISTING CONDITIONS PRIOR TO CONSTRUCTION.
- COORDINATE THE INSTALLATION OF THE MECHANICAL SYSTEMS WITH OTHER TRADES TO ENSURE A NEAT AND ORDERLY INSTALLATION. INSTALL DUCTWORK AND PIPING AS TIGHT TO STRUCTURE AS POSSIBLE. COORDINATE WITH OTHER TRADES TO AVOID CONFLICTS. COORDINATE INSTALLATION OF DUCTWORK AND PIPING TO AVOID CONFLICTS WITH ELECTRICAL PANELS, LIGHTING FIXTURES, ETC. ANY MODIFICATIONS REQUIRED DUE TO LACK OF COORDINATION WILL BE THE RESPONSIBILITY OF THE CONTRACTOR AT NO EXTRA COST TO THE OWNER.
- WHERE SHUTDOWN OF EXISTING SYSTEMS IS REQUIRED DURING NEW WORK, COORDINATE SHUTDOWN TIME AND DURATION WITH THE OWNER TO MINIMIZE DOWNTIME. NOTIFY OWNER SEVEN (7) DAYS PRIOR TO INTERRUPTION OF SERVICE.
- DURING INSTALLATION OF NEW WORK, AVOID DAMAGING EXISTING SURFACES AND EQUIPMENT TO REMAIN. REPAIR DAMAGE CAUSED DURING CONSTRUCTION AT NO EXTRA COST TO THE OWNER.
- PROVIDE TEMPORARY BARRIERS TO CONTAIN DUST AND DEBRIS RESULTING FROM THE PERFORMANCE OF THE WORK TO THE AREA WHERE WORK IS BEING PERFORMED.
- ALL MECHANICAL EQUIPMENT SHOWN ON THE MECHANICAL PLANS SHALL BE PROVIDED BY DIVISION 23 UNLESS OTHERWISE NOTED.
- NEW MECHANICAL EQUIPMENT, DUCTWORK AND PIPING ARE SHOWN AT APPROXIMATE LOCATIONS. FIELD MEASURE FINAL DUCTWORK AND PIPING LOCATIONS PRIOR TO FABRICATION AND MAKE ADJUSTMENTS AS REQUIRED TO FIT THE DUCTWORK AND PIPING WITHIN THE AVAILABLE SPACE. VERIFY THAT FINAL EQUIPMENT LOCATIONS MEET MANUFACTURER'S RECOMMENDATIONS REGARDING SERVICE CLEARANCE AND PROPER AIRFLOW CLEARANCE AROUND EQUIPMENT.
- REFER TO ARCHITECTURAL DRAWINGS FOR RELATED CONSTRUCTION DETAILS AS APPLICABLE TO THE HVAC SYSTEM. VERIFY CHASES AND PENETRATIONS SHOWN ON ARCHITECTURAL DRAWINGS THAT ARE INTENDED FOR DUCTWORK AND PIPING MEET REQUIREMENTS.
- INDOOR AIR QUALITY MEASURES: PROTECT INSIDE OF INSTALLED AND DELIVERED DUCTWORK AND HVAC UNITS FROM EXPOSURE TO DUST, DIRT, PAINT AND MOISTURE. REPLACE INSULATION THAT HAS BECOME WET AT ANY TIME DURING CONSTRUCTION. DRYING THE INSULATION IS NOT ACCEPTABLE. SEAL ANY TEARS OR JOINTS OF INTERNAL FIBERGLASS INSULATION. REMOVE DEBRIS FROM CEILING/RETURN AIR PLENUM INCLUDING DUST. AN INDEPENDENT PROFESSIONAL DUCT CLEANING COMPANY SHALL VACUUM CLEAN ANY DUCTWORK CONNECTED TO HVAC UNITS THAT WERE OPERATED DURING THE CONSTRUCTION PERIOD AFTER NEW FILTERS ARE INSTALLED AND PRIOR TO TURNING SYSTEM OVER TO THE OWNER. THE INTERNAL SURFACES AND ASSOCIATED COILS OF ANY HVAC UNITS THAT WERE OPERATED SHALL ALSO BE CLEANED.
- INSTALL DUCTWORK AND PIPING PARALLEL TO BUILDING COLUMN LINES UNLESS OTHERWISE SHOWN OR NOTED.
- OVERHEAD HANGERS AND SUPPORTS FOR EQUIPMENT, DUCTWORK AND PIPING SHALL BE FASTENED TO BUILDING JOISTS OR BEAMS. DO NOT ATTACH HANGERS AND SUPPORTS TO THE ABOVE FLOOR SLAB OR ROOF EXCEPT WHERE CONCRETE INSERTS IN CONCRETE TRAPS ARE ALLOWED BY THE SPECIFICATIONS.
- COORDINATE LOCATION OF EQUIPMENT SUPPORTS WITH LOCATION OF EQUIPMENT ACCESS PANELS/DOORS TO ENABLE SERVICE OF EQUIPMENT AND/OR FILTER REPLACEMENT.
- SEAL PENETRATIONS THROUGH THE BUILDING COMPONENTS IN ACCORDANCE WITH THE CONTRACT SPECIFICATIONS. FIREPROOF PENETRATIONS THROUGH FIRE RATED COMPONENTS IN ACCORDANCE WITH U.L. REQUIREMENTS.
- COORDINATE THE EXACT MOUNTING SIZE AND FRAME TYPE OF DIFFUSERS, REGISTERS AND GRILLES WITH THE SUPPLIER TO MEET THE CEILING, WALL AND DUCT INSTALLATION REQUIREMENTS.
- ADJUST LOCATION OF CEILING DIFFUSERS, REGISTERS AND GRILLES AS REQUIRED TO ACCOMMODATE FINAL CEILING GRID AND LIGHTING LOCATIONS.
- PAINT PORTIONS OF DUCTWORK AND INSULATION THAT ARE EXPOSED TO VIEW BY THE INSTALLATION OF DIFFUSERS, REGISTERS, AND GRILLES ON CEILINGS OR WALLS/FLAT BLACK PORTIONS INCLUDE BOTH THE INTERIOR OF UNLINED DUCTWORK AND THE EXTERIOR OF DUCTWORK AND INSULATION.
- DUCTWORK CROSSING FIRE RATED WALLS OR OTHER FIRE RATED ASSEMBLIES SHALL BE MINIMUM 26 GAUGE SHEET METAL.
- LOCATE AND SET THERMOSTATS AT LOCATIONS SHOWN ON PLANS. VERIFY EXACT LOCATIONS WITH ARCHITECT PRIOR TO INSTALLATION. INSTALL DEVICES WITH TOP OF DEVICE AT MAXIMUM 48" AFF TO MEET ADA REQUIREMENTS UNLESS NOTED OTHERWISE ON PLANS. PROVIDE INSULATED BACKING FOR THERMOSTATS MOUNTED ON EXTERIOR BUILDING WALLS. INSTALL WIRING IN CONDUIT PROVIDED BY DIVISION 26. AT A MINIMUM, PROVIDE CONDUIT IN THE WALL FROM THE JUNCTION BOX TO 6" ABOVE THE CEILING.
- COORDINATE THE LOCATION AND ELEVATION OF WALL-MOUNTED DEVICES WITH PRESENTATION BOARDS, DISPLAY CABINETS, SHELVES OR OTHER COMPONENTS SHOWN ON THE ARCHITECTURAL DRAWINGS THAT ARE TO BE INSTALLED UNDER OTHER DIVISIONS. CONTRACTOR WILL NOT BE REIMBURSED FOR RELOCATION OF WALL-MOUNTED DEVICES CAUSED BY A LACK OF COORDINATION.
- PROVIDE A MANUAL BALANCING DAMPER IN EACH DUCT TAKEOFF FROM SUPPLY, RETURN, OUTDOOR AND EXHAUST AIR DUCTS.

- BRANCH DUCTWORK TO AIR OUTLETS SHALL BE SAME SIZE AS OUTLET NECK SIZE UNLESS OTHERWISE NOTED.
- REFER TO SPECIFICATIONS FOR DUCTWORK AND PIPING INSULATION REQUIREMENTS. DUCT SIZES ON MECHANICAL PLANS INDICATE CLEAR INSIDE AIRFLOW DIMENSIONS. INCREASE SHEET METAL SIZES ACCORDINGLY TO ACCOUNT FOR THICKNESS OF DUCT LINER.
- RIGIDLY SUSPEND UNIT HEATER FROM STRUCTURE WITH SUPPORTING ANGLES AND ALL-THREAD HANGING RODS IN ACCORDANCE WITH MANUFACTURER'S RECOMMENDATIONS.
- PROVIDE WALL MOUNTED LOUVERS AND DAMPERS WITH SUITABLE MOUNTING FRAME TO MATCH WALL CONSTRUCTION. COORDINATE WITH ARCHITECTURAL DRAWINGS.
- PROVIDE A NEW SET OF AIR FILTERS IN UNITS PRIOR TO TESTING, ADJUSTING AND BALANCING AND BEFORE TURNING SYSTEM(S) OVER TO OWNER.

Sheet List - Mechanical	
Sheet Number	Sheet Name
H-M000	MECHANICAL GENERAL NOTES AND LEGEND
H-M111	HOME PRESS BOX - HVAC PLANS
H-M121	HOME GATEWAY - HVAC PLANS
H-M131	VISITOR TICKET BOOTH - HVAC PLANS
H-M500	MECHANICAL DETAILS
H-M600	MECHANICAL SCHEDULES & CONTROLS
Grand total: 6	



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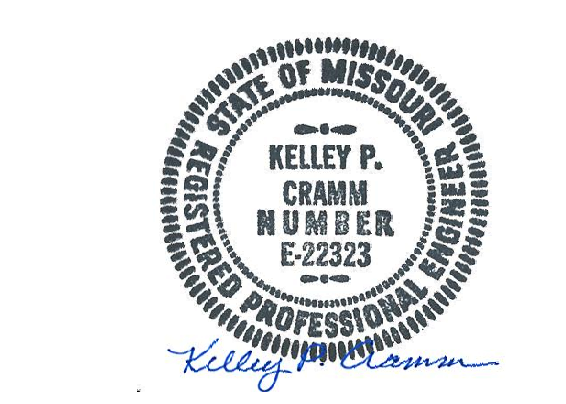
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SEP 25 2020

REVISIONS

Number	DESCRIPTION	DATE

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DATE: September 28, 2020

MECHANICAL GENERAL NOTES AND LEGEND

H-M000

BID SET

KELLEY P. CRAMM

Lee's Summit R7 District
Athletics Facilities

Lee's Summit High School
400 SW Blue Parkway
Lee's Summit, MO 64063

owner:
Lee's Summit R-7 School District
301 NE Tudor Road
Lee's Summit, MO 64086

architect:
Gould Evans
4200 Pennsylvania Avenue
Kansas City, MO 64111
816.931.6655 voice
www.gouldevans.com

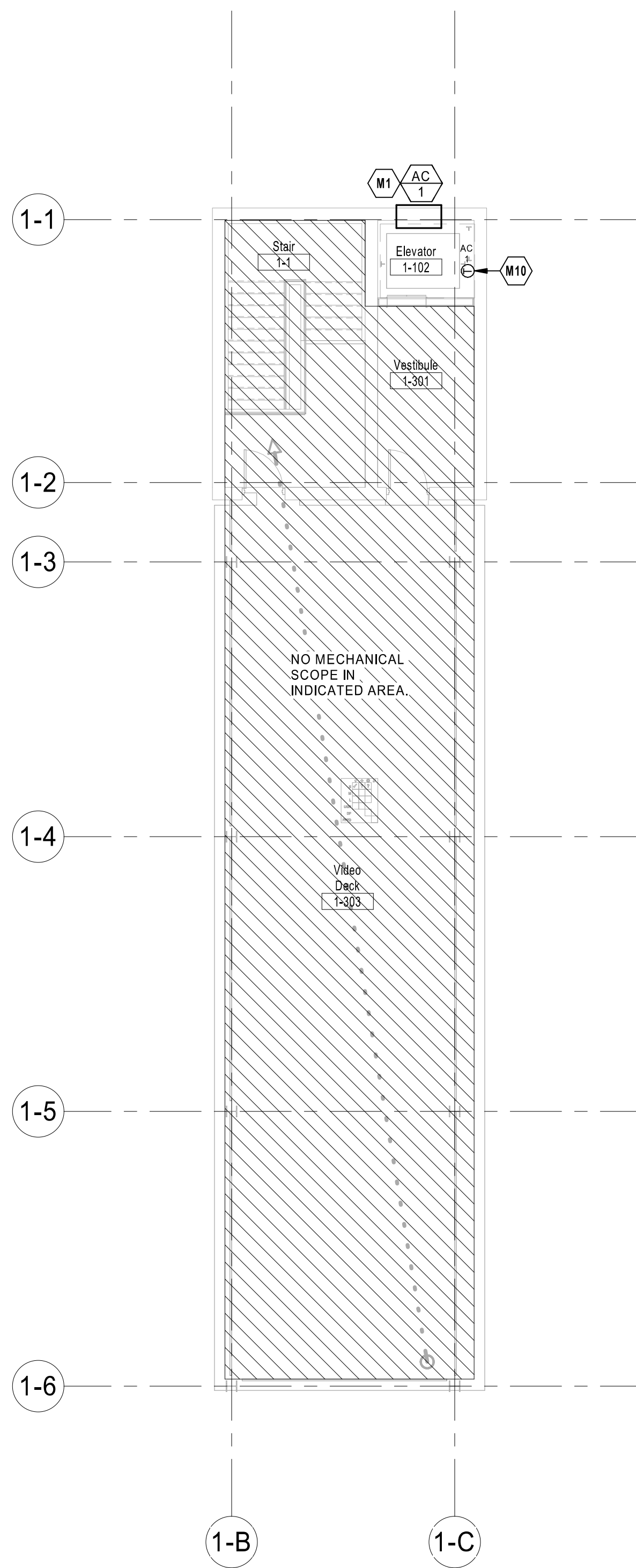
structural engineer:
Bob D. Campbell & Company, Inc.
4338 Belleview Avenue
Kansas City, MO 64111
816.531.4144

civil engineer:
Kaw Valley Engineering
14700 West 124th Terrace
Lenexa, KS 66215
913.485.0318

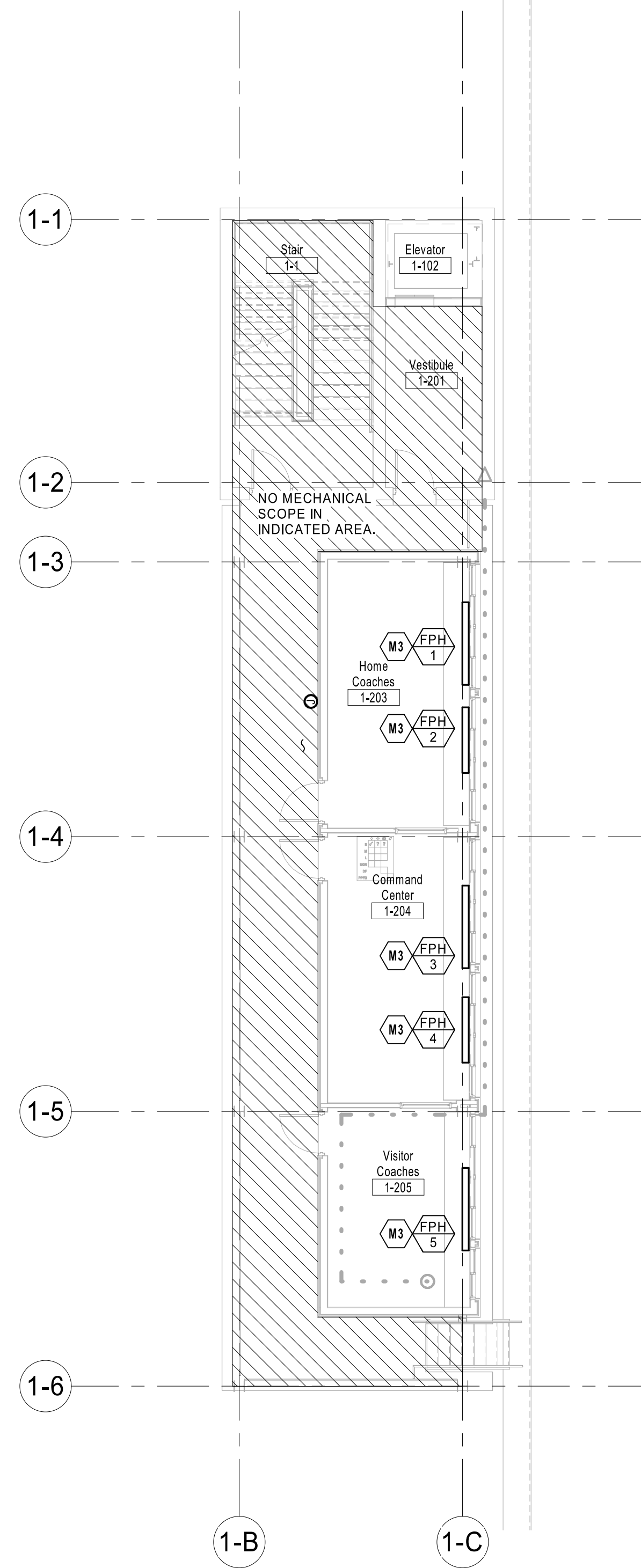
mechanical/electrical engineer:
Henderson Engineers
8345 Lenexa Drive | Suite 300
Lenexa, KS 66214
816.742.5000

MECHANICAL PLAN NOTES:

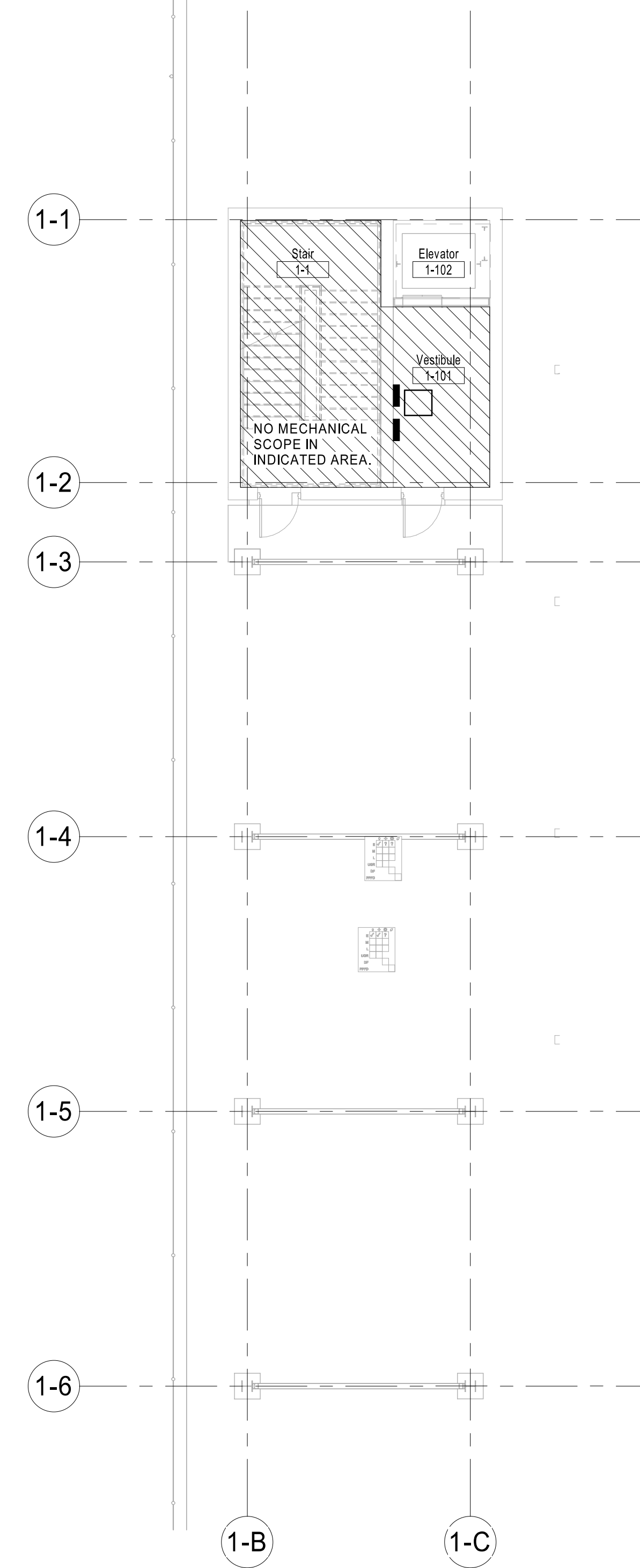
- M1 INSTALL PACKAGED TERMINAL AIR CONDITIONER AT THE TOP OF ELEVATOR SHAFT AS NOT TO INTERFERE WITH ELEVATOR OPERATION. COORDINATE FINAL LOCATION WITH ELEVATOR MANUFACTURER REQUIREMENTS.
- M3 INSTALL FAN POWERED TERMINAL HEATER ON FLOOR.
- M10 INSTALL THERMOSTAT IN ACCESSIBLE LOCATION WITHIN THE ELEVATOR SHAFT AS CLOSE AS POSSIBLE TO ELEVATOR CONTROLLER.



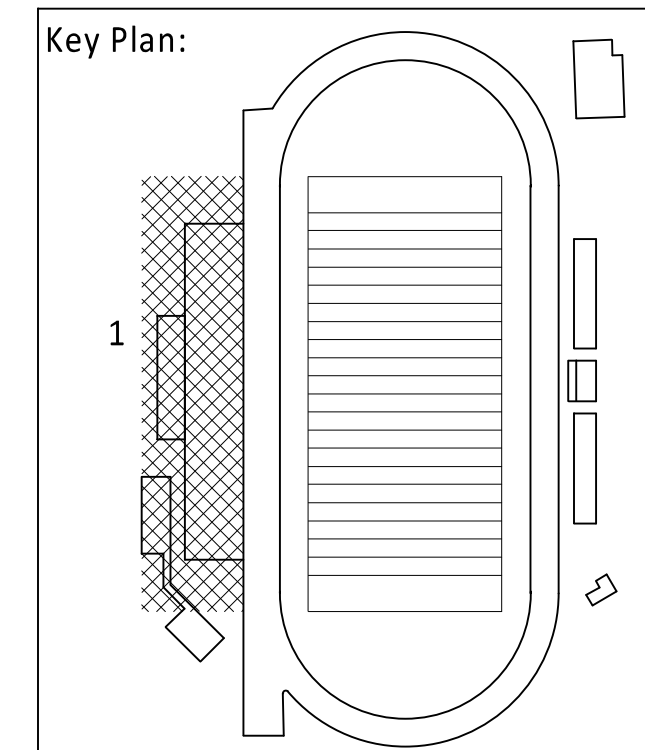
③ HOME PRESS BOX - LEVEL 3 HVAC PLAN
1/8" = 1'-0"



② HOME PRESS BOX - LEVEL 2 HVAC PLAN
1/8" = 1'-0"



① HOME PRESS BOX - HVAC PLAN
1/8" = 1'-0"



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#20200154
MO. CORPORATE NO. E-5560
EXPIRES 12/31/2020



Sep 25 2020

REVISIONS		
Number	DESCRIPTION	DATE

PROJECT NO: 0119-0101
DATE: September 28, 2020

HOME PRESS BOX -
HVAC PLANS

H-M111

BID SET

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MO. CORPORATE NO. E-5560
EXPIRES 12/31/2020



Sep 25 2020

REVISIONS

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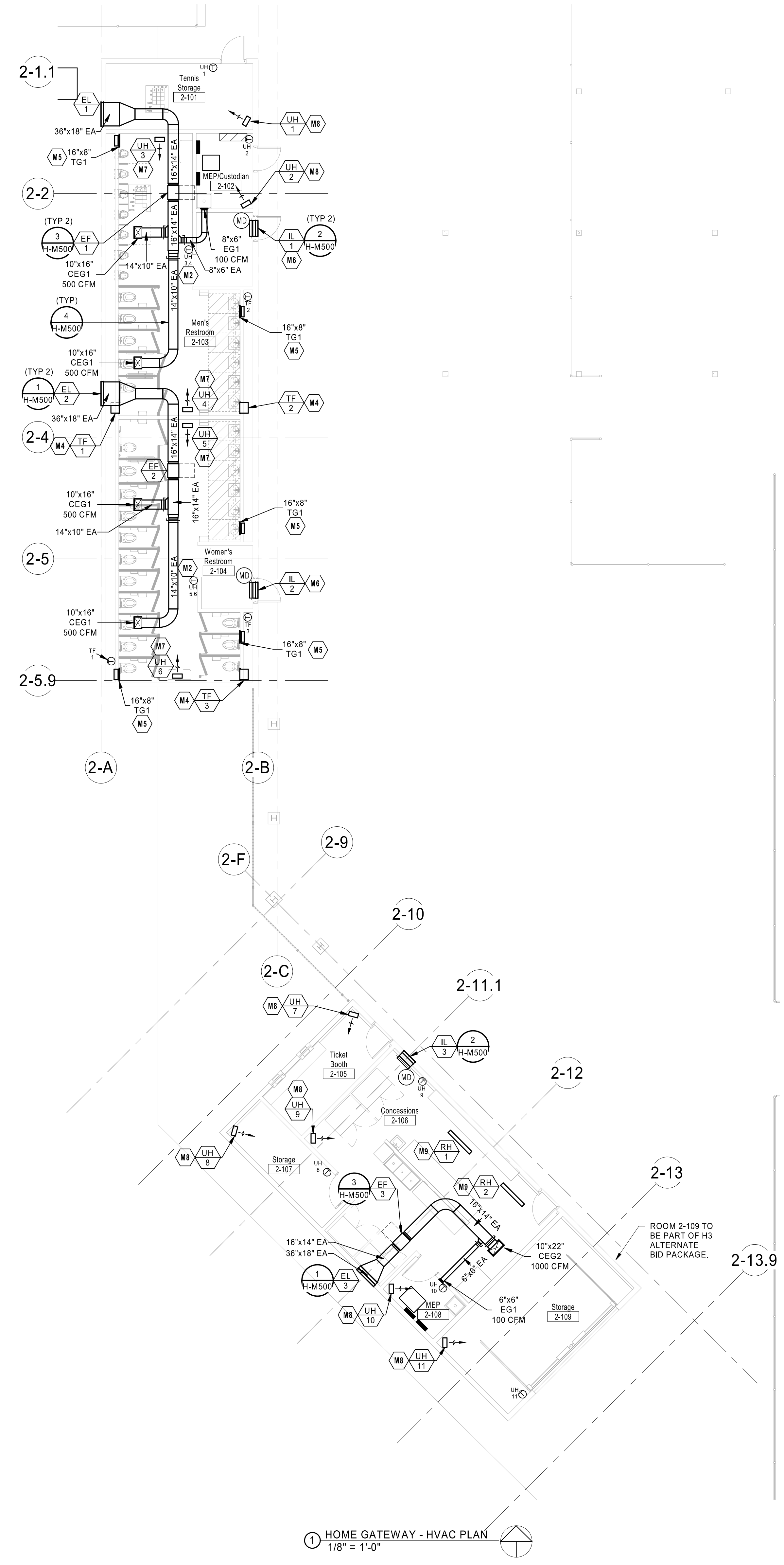
PROJECT NO: 0119-0101
DATE: September 28, 2020

HOME GATEWAY -
HVAC PLANS

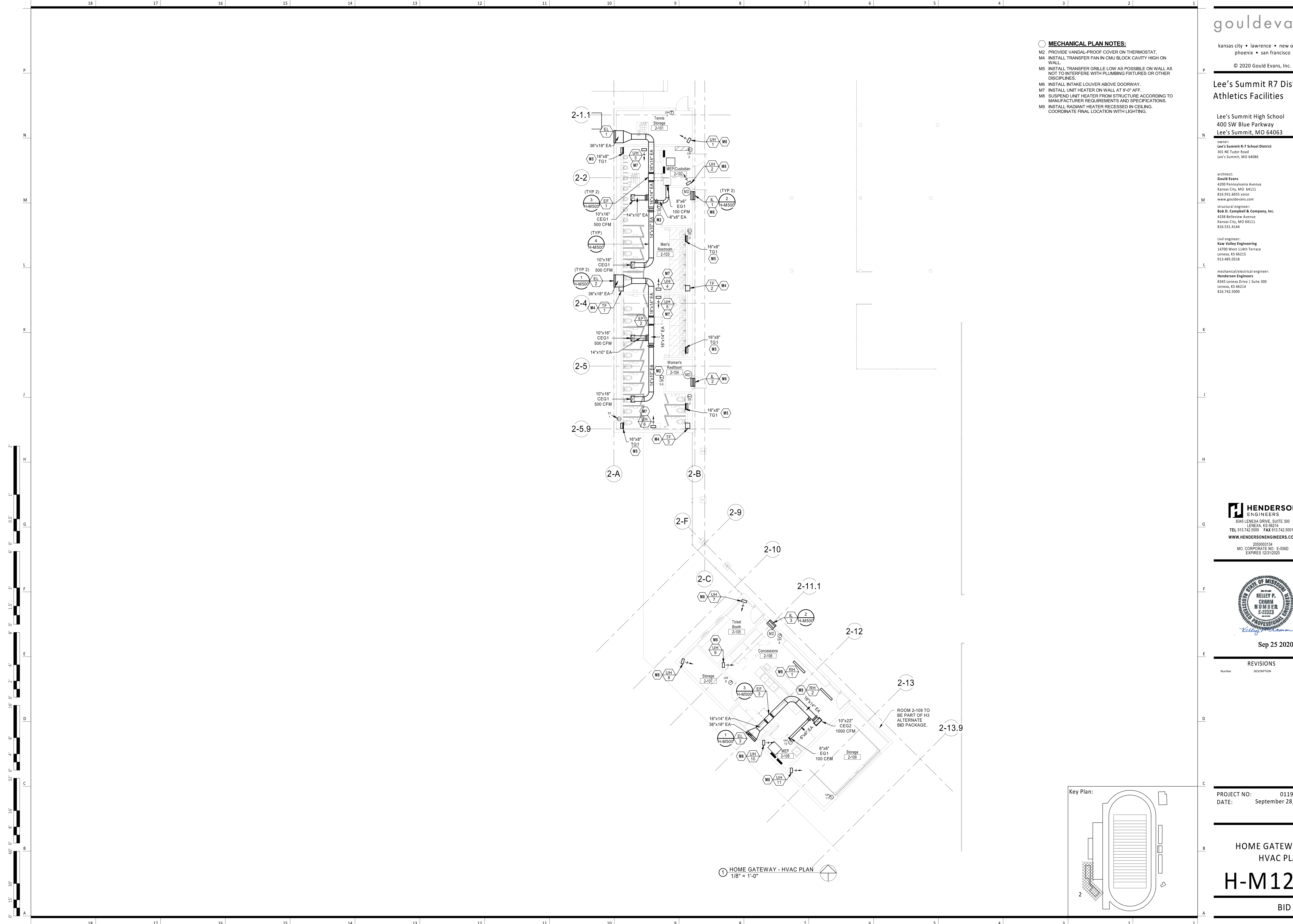
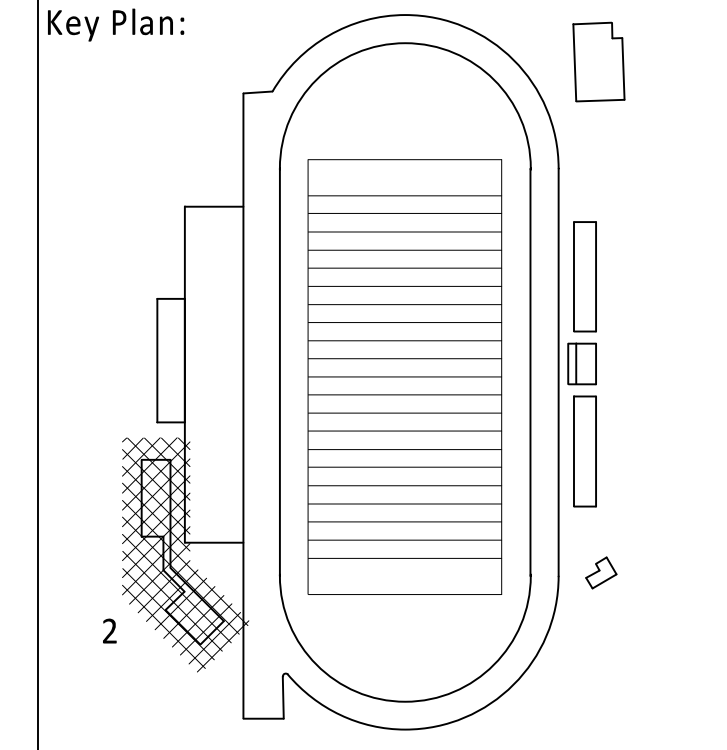
H-M121

BID SET

- MECHANICAL PLAN NOTES:**
- M2 PROVIDE VANDAL-PROOF COVER ON THERMOSTAT.
 - M4 INSTALL TRANSFER FAN IN CMU BLOCK CAVITY HIGH ON WALL.
 - M5 INSTALL TRANSFER GRILLE LOW AS POSSIBLE ON WALL AS NOT TO INTERFERE WITH PLUMBING FIXTURES OR OTHER DISCIPLINES.
 - M6 INSTALL INTAKE LOUVER ABOVE DOORWAY.
 - M7 INSTALL UNIT HEATER ON WALL AT 8'-0" AFF.
 - M8 SUSPEND UNIT HEATER FROM STRUCTURE ACCORDING TO MANUFACTURER REQUIREMENTS AND SPECIFICATIONS.
 - M9 INSTALL RADIANT HEATER RECESSED IN CEILING. COORDINATE FINAL LOCATION WITH LIGHTING.



1 HOME GATEWAY - HVAC PLAN
1/8" = 1'-0"



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MECHANICAL PLAN NOTES:
MB SUSPEND UNIT HEATER FROM STRUCTURE ACCORDING TO MANUFACTURER REQUIREMENTS AND SPECIFICATIONS.

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MO. CORPORATE NO. E-5560
EXPIRES 12/31/2020



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REVISIONS

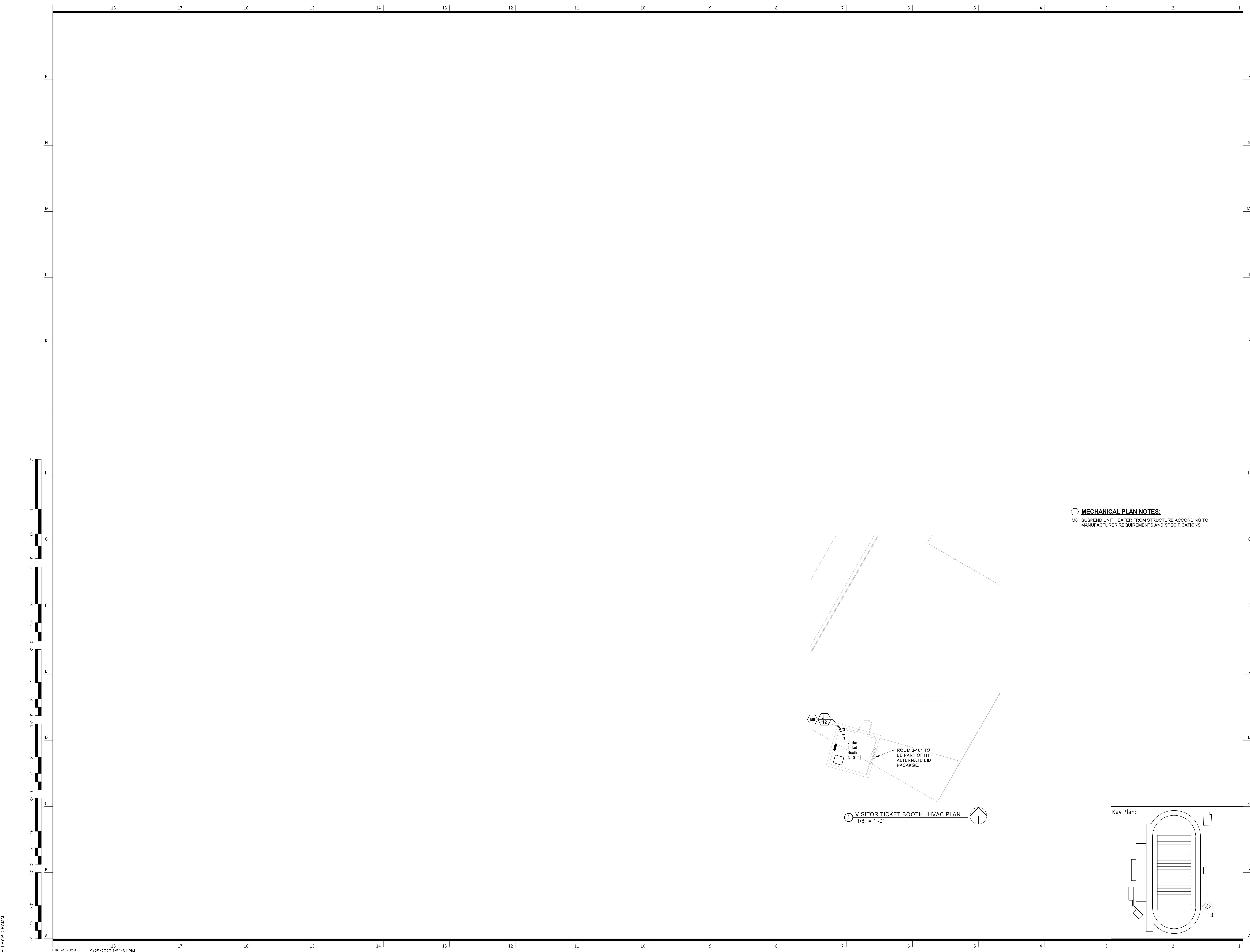
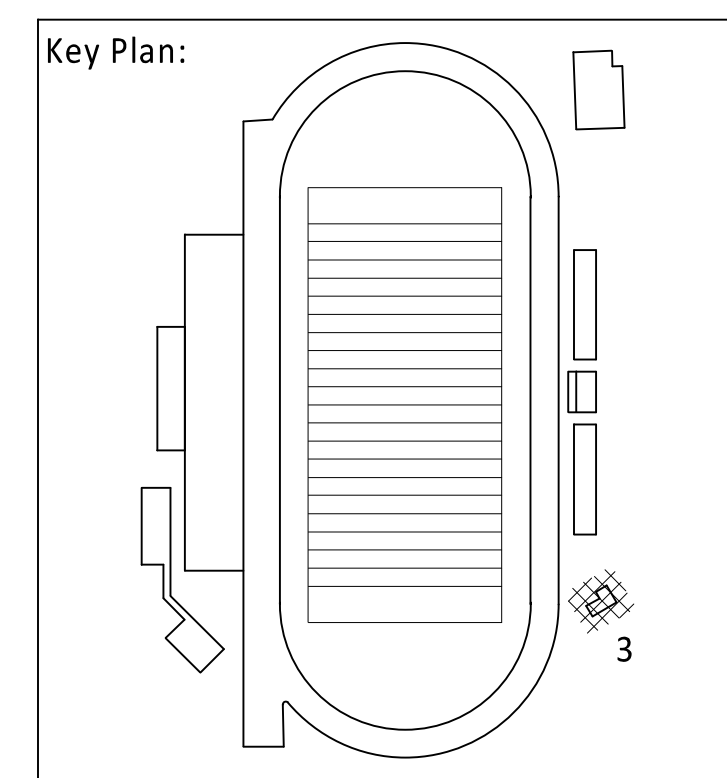
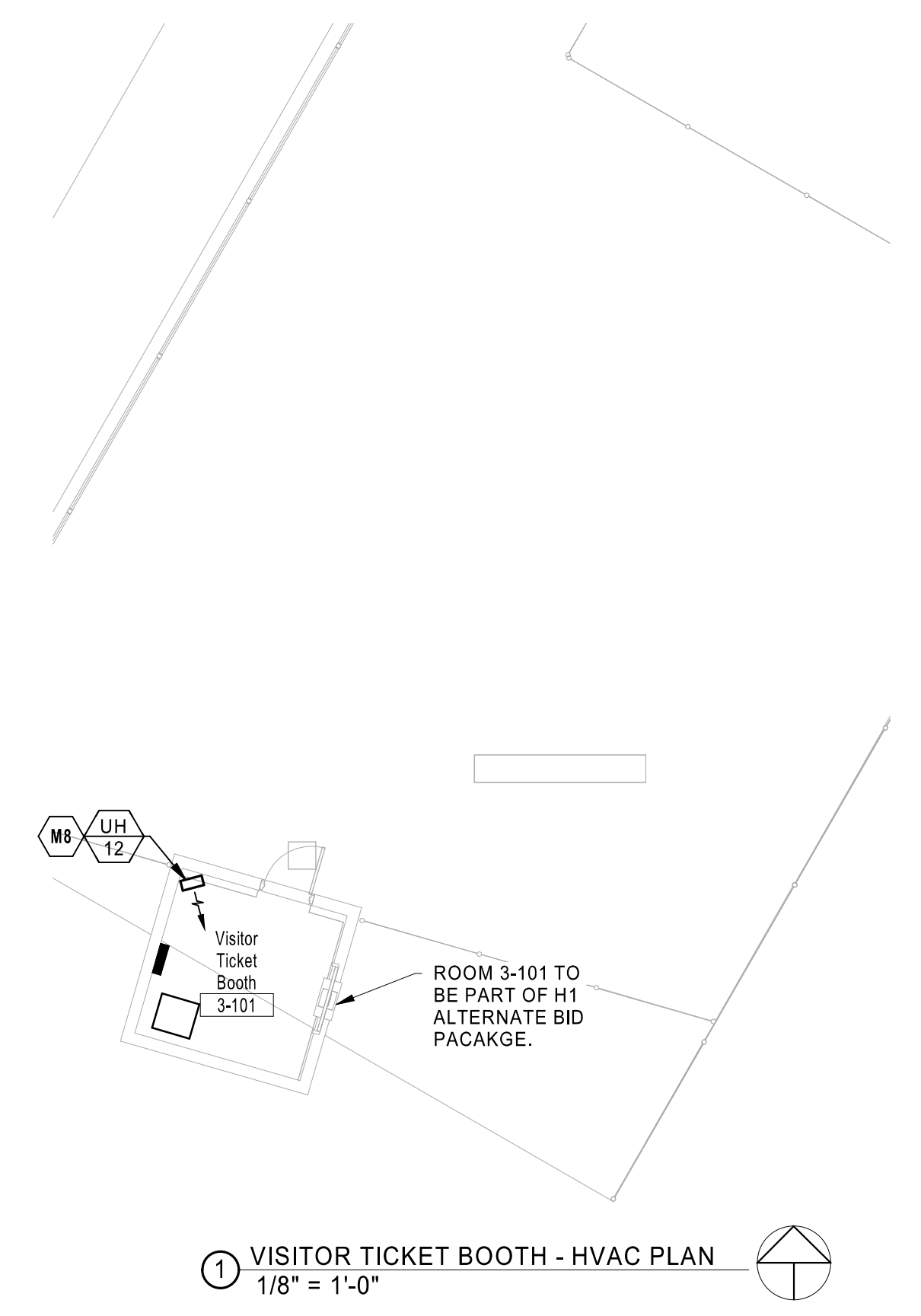
Number	DESCRIPTION	DATE

PROJECT NO: 0119-0101
DATE: September 28, 2020

VISITOR TICKET BOOTH
- HVAC PLANS

H-M131

BID SET



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EXPIRES 12/31/2020



Sep 25 2020

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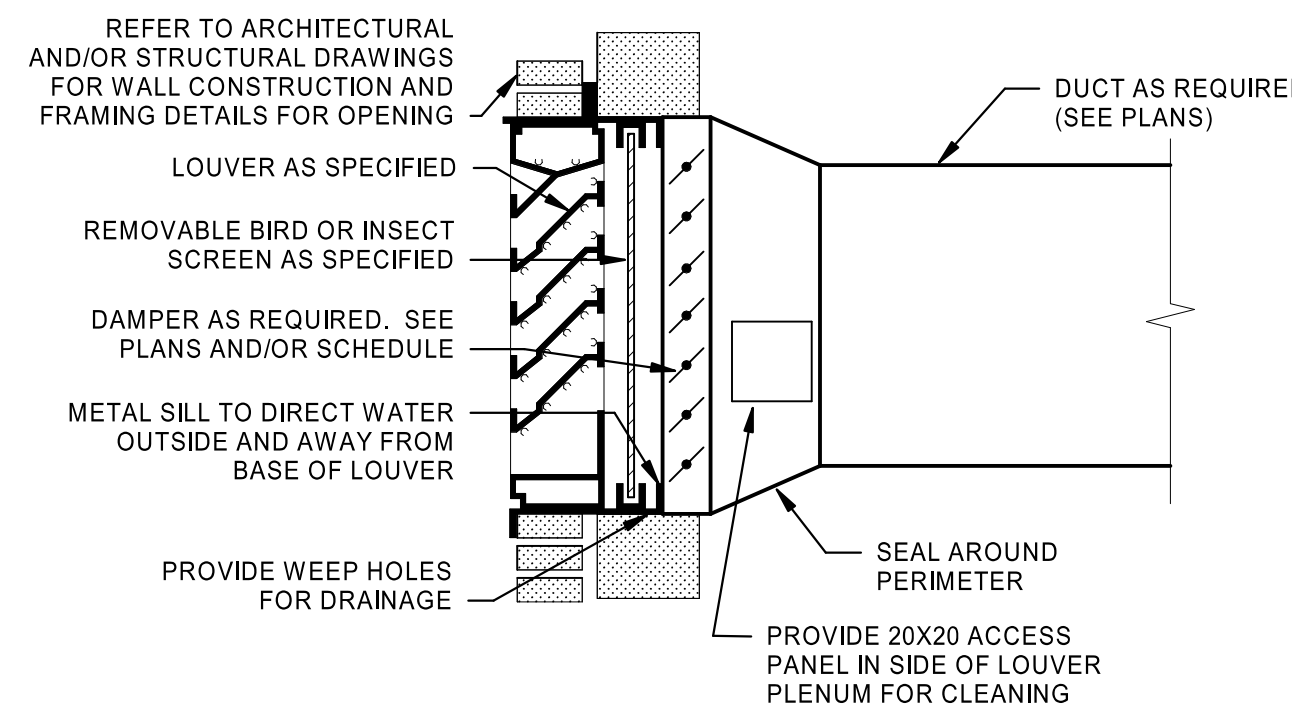
Number	DESCRIPTION	DATE
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PROJECT NO: 0119-0101
DATE: September 28, 2020

MECHANICAL DETAILS

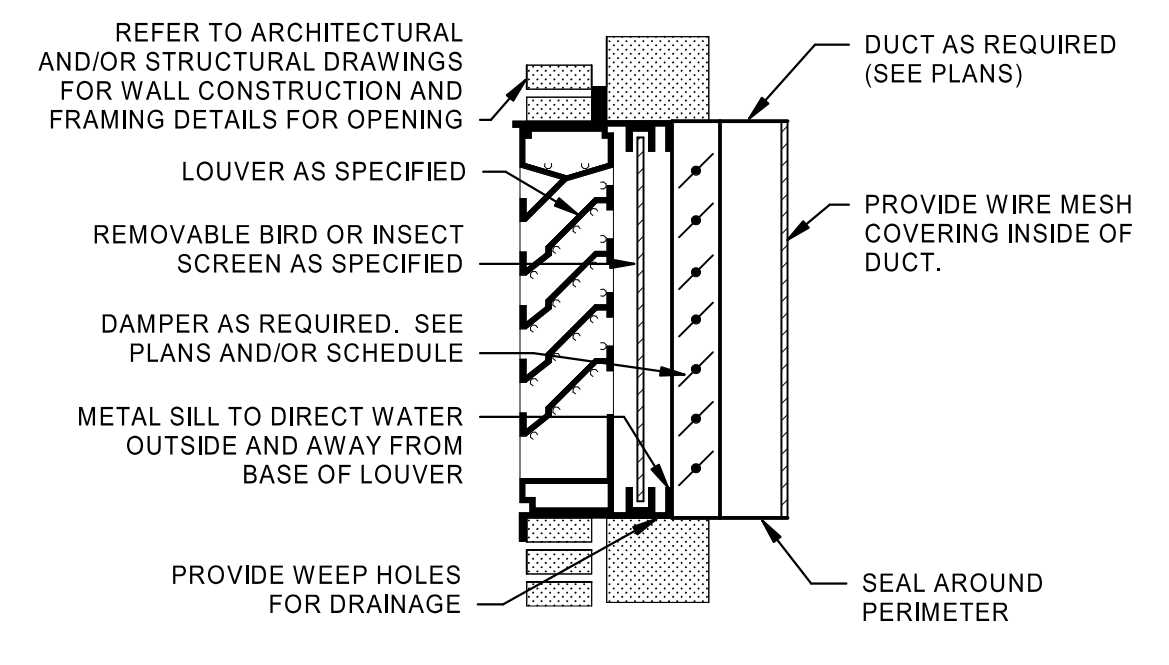
H-M500

BID SET



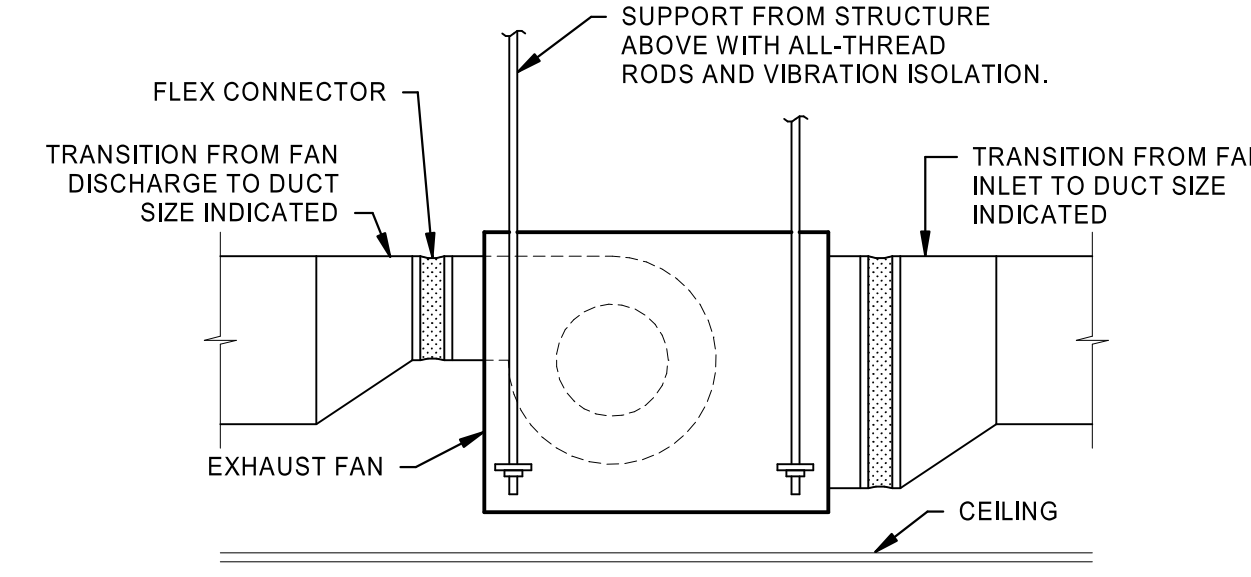
NOTES:
1. SEAL ALL JOINTS AND SEAMS OF PLENUM AND DUCT TO PROVIDE WATER TIGHT CONSTRUCTION. PROVIDE INSULATION FOR PLENUM AND DUCT PER SPECIFICATIONS.

1 EXHAUST LOUVER INSTALLATION DETAIL
NTS

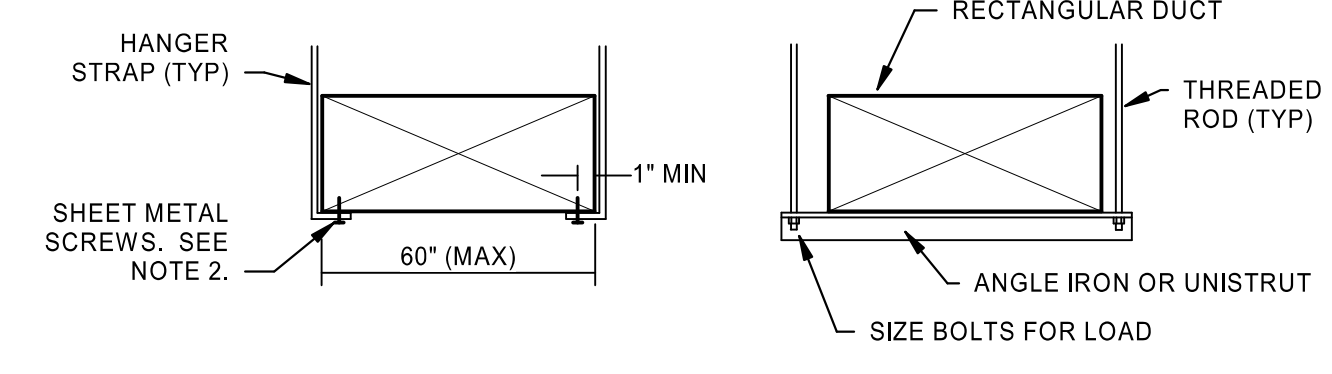


NOTES:
1. SEAL ALL JOINTS AND SEAMS OF PLENUM AND DUCT TO PROVIDE WATER TIGHT CONSTRUCTION. PROVIDE INSULATION FOR PLENUM AND DUCT PER SPECIFICATIONS.

2 INTAKE LOUVER INSTALLATION DETAIL
NTS



3 IN-LINE CABINET EXHAUST FAN DETAIL
NTS



NOTES:
1. USE THREADED ROD FOR RECTANGULAR DUCTS LARGER THAN 60\"/>

4 DUCT HANGER LOWER ATTACHMENT DETAILS
NTS

FAN-POWERED TERMINAL HEATER SCHEDULE (ELECTRIC)

MARK	LOCATION	MANUFACTURER	MODEL	LENGTH (IN)	INPUT (KW)	CFM	INTAKE	OUTLET	MOUNTING TYPE	VOLTS	PH	MCA	DISC TYPE	NOTES
FPH 1	HOME COACHES	SOHO	SoHo-e-06-077	77"	2.0	250 CFM	TOP	TOP	FLOOR	277 V	1	9.0	NON-FUSED	A,D,E,F,G,H
FPH 2	HOME COACHES	SOHO	SoHo-e-06-061	61"	1.5	185 CFM	TOP	TOP	FLOOR	277 V	1	6.8	NON-FUSED	A,D,E,F,G,H
FPH 3	COMMAND CENTER	SOHO	SoHo-e-06-077	77"	2.0	250 CFM	TOP	TOP	FLOOR	277 V	1	9.0	NON-FUSED	A,D,E,F,G,H
FPH 4	COMMAND CENTER	SOHO	SoHo-e-06-061	61"	1.5	185 CFM	TOP	TOP	FLOOR	277 V	1	6.8	NON-FUSED	A,D,E,F,G,H
FPH 5	VISITOR COACHES	SOHO	SoHo-e-06-077	77"	2.0	250 CFM	TOP	TOP	FLOOR	277 V	1	9.0	NON-FUSED	A,B,C,F,G,H

MODEL NUMBERS SHALL NOT BE CONSIDERED COMPLETE AND MATERIAL SHALL NOT BE ORDERED BY MANUFACTURER AND MODEL NUMBERS ONLY. REVIEW THE COMPLETE DESCRIPTION, NOTES AND SPECIFICATIONS TO DETERMINE THE EXACT MATERIAL AND ACCESSORIES TO BE ORDERED. THE MANUFACTURERS LISTED ARE THE BASIS FOR THE DESIGN.

NOTES:

- PROVIDE WITH SINGLE POINT POWER CONNECTION.
- DIVISION 26 TO PROVIDE TIMER SWITCH.
- DIVISION 26 TO PROVIDE LINE VOLTAGE THROUGH TIMER SWITCH TO UNIT.
- DIVISION 26 TO PROVIDE SINGLE TIMER SWITCH FOR ROOMS WITH MULTIPLE UNITS.
- DIVISION 26 TO PROVIDE LINE VOLTAGE THROUGH SINGLE TIMER SWITCH IN ROOMS WITH MULTIPLE UNITS.
- PROVIDE WITH INTEGRATED THERMOSTAT.
- PROVIDE NECESSARY MOUNTING BRACKET AND ACCESSORIES FOR EXPOSED FLOOR MOUNTING.
- PROVIDE FACTORY MOUNTED DISCONNECT SWITCH INSTALLED ON SERVICE SIDE OF UNIT.

GRILLE, REGISTER AND DIFFUSER SCHEDULE

MARK	MANUFACTURER	SERVICE	MODEL	CONSTRUCTION TYPE	FACE TYPE	MOUNTING LOCATION	BORDER TYPE	FACE SIZE (IN)	MAX NC	MAX PRESS DROP (IN W.C.)	NOTES
CEG1	PRICE	EXHAUST	630	ALUMINIUM	LOUVERED	CEILING	SURFACE	16"x10"	30	0.08	A,B,C,D
CEG2	PRICE	EXHAUST	630	ALUMINIUM	LOUVERED	CEILING	SURFACE	24"x12"	30	0.08	A,B,C,D
EG1	PRICE	EXHAUST	630	ALUMINIUM	LOUVERED	WALL	SURFACE	REFER TO PLANS	30	0.08	A,B,C,D
TD1	PRICE	TRANSFER	630	ALUMINIUM	LOUVERED	WALL	SURFACE	REFER TO PLANS	30	0.08	A,B,C,D

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NOTES:

- NECK SIZE SHOWN ON DRAWINGS. PROVIDE BRANCH DUCT TO MATCH NECK SIZE UNLESS OTHERWISE SHOWN ON DRAWINGS.
- BAKED ENAMEL FINISH, WHITE TO MATCH CEILING COLOR.
- FRONT BLADES PARALLEL TO LONG DIMENSION.
- FRAME TYPE TO MATCH CEILING/WALL CONSTRUCTION, COORDINATE WITH ARCHITECTURAL REFLECTED CEILING/WALL PLAN.
- FRONT BLADES PARALLEL TO SHORT DIMENSION.

LOUVER SCHEDULE

MARK	AREA SERVED	SERVICE	MANUFACTURER	MODEL	WIDTH (IN)	LENGTH (IN)	CFM	MIN FREE AREA (SF)	MAX VEL (FPM)	MAX APD (IN W.C.)	NOTES
EL 1	RESTROOMS	EXHAUST	GREENHECK	ESD-635	36"	18"	1100 CFM	1.58	700 FPM	0.05 in-wg	A,B,C,D
EL 2	RESTROOMS	EXHAUST	GREENHECK	ESD-635	36"	18"	1000 CFM	1.43	700 FPM	0.05 in-wg	A,B,C,D
EL 3	CONCESSION	EXHAUST	GREENHECK	ESD-635	36"	18"	1100 CFM	1.58	700 FPM	0.05 in-wg	A,B,C,D
IL 1	MENS RESTROOM	INTAKE	GREENHECK	ESD-635	24"	24"	1000 CFM	1.77	560 FPM	0.01 in-wg	A,B,C,E,F
IL 2	WOMENS RESTROOM	INTAKE	GREENHECK	ESD-635	24"	24"	1000 CFM	1.77	560 FPM	0.01 in-wg	A,B,C,E,F
IL 3	CONCESSION	INTAKE	GREENHECK	ESD-635	24"	24"	1000 CFM	1.77	560 FPM	0.01 in-wg	A,B,C,E,F

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NOTES:

- PROVIDE 1/2" MESH ALUMINIUM BIRD SCREEN.
- PROVIDE ANNOZED FINISH WITH COLOR SELECTED BY ARCHITECT.
- FRAME TYPE SHALL MATCH WALL CONSTRUCTION, COORDINATE WITH ARCHITECT.
- PROVIDE WITH INTEGRAL BACKDRAFT DAMPER.
- PROVIDE WITH INTEGRAL 6V MOTOR OPERATED DAMPER.
- INTERLOCK MOTOR-OPERATED DAMPER WITH EXHAUST FAN.

UNIT HEATER SCHEDULE (ELECTRIC)

MARK	AREA SERVED	MANUFACTURER	MODEL	MIN OUT (MBH)	NOM (KW)	MIN NO OF STAGES	CFM	MOTOR HP	THROW (FT)	V/PH	DISC TYPE	NOTES
UH 1	TENNIS STORAGE	QMARK	MUH03-71	10.2	3.0	1	350	0.01	12	277/1	NON-FUSED	A,B,E,F
UH 2	MEP/CUSTODIAL	QMARK	MUH03-71	10.2	3.0	1	350	0.01	12	277/1	NON-FUSED	A,B,E,F
UH 3	MENS RESTROOM	QMARK	MUH-07-1	25.6	7.5	2	650	0.04	18	480/3	NON-FUSED	A,E,F,G
UH 4	MENS RESTROOM	QMARK	MUH05-41	17.0	5.0	2	350	0.01	12	480/3	NON-FUSED	A,E,F,G
UH 5	WOMENS RESTROOM	QMARK	MUH05-41	17.0	5.0	2	350	0.01	12	480/3	NON-FUSED	A,E,F,G
UH 6	WOMENS RESTROOM	QMARK	MUH-07-4	25.6	7.5	2	650	0.04	18	480/3	NON-FUSED	A,E,F,G
UH 7	TICKET BOOTH	QMARK	MUH03-61	10.2	3.0	1	350	0.01	12	277/1	NON-FUSED	A,C,D,E,F,H
UH 8	STORAGE	QMARK	MUH03-71	10.2	3.0	1	350	0.01	12	277/1	NON-FUSED	A,B,E,F
UH 9	CONCESSION	QMARK	MUH-07-4	25.6	7.5	2	650	0.04	18	480/3	NON-FUSED	A,B,E,F
UH 10	MEP	QMARK	MUH03-71	10.2	3.0	1	350	0.01	12	277/1	NON-FUSED	A,B,E,F
UH 11	BAND STORAGE	QMARK	MUH03-71	10.2	3.0	1	350	0.01	12	277/1	NON-FUSED	A,B,E,F
UH 12	VISITOR TICKET BOOTH	QMARK	MUH03-61	10.2	3.0	1	350	0.01	12	208/1	NON-FUSED	A,C,D,E,F,H

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NOTES:

- MOUNT 8 FEET ABOVE FINISHED FLOOR WITHOUT OBSTRUCTING AIRFLOW.
- PROVIDE WITH WALL MOUNTED THERMOSTAT.
- DIVISION 26 TO PROVIDE TIMER SWITCH.
- DIVISION 26 TO PROVIDE LINE VOLTAGE THROUGH TIMER SWITCH TO UNIT.
- PROVIDE NECESSARY MOUNTING BRACKET AND ACCESSORIES FOR HORIZONTAL DISCHARGE MOUNTING.
- PROVIDE FACTORY MOUNTED DISCONNECT SWITCH INSTALLED ON SERVICE SIDE OF UNIT.
- PROVIDE WITH SINGLE WALL MOUNTED THERMOSTAT TO CONTROL 2 UNIT HEATERS.
- PROVIDE WITH FACTORY MOUNTED THERMOSTAT.

PACKAGED TERMINAL AIR CONDITIONING UNIT SCHEDULE (COOLING ONLY)

MARK	MANUFACTURER	MODEL	SUPPLY FAN		COOLING COIL		COMPRESSOR		ELECTRICAL		NOTES		
			NOM CFM	REFR HP	TH TYPE	MBH	LRA QTY	V/PH	MCA	DISC TYPE		STARTER TYPE	
AC 1	FRIEDRICH	PDE12K	400	0.09	R-410A	12.0	21.5	1	208/1	5.1	NON-FUSED	INTEGRAL	A,B,C,D,E,F,G

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NOTES:

- CONDENSER CAPACITIES BASED ON 100°F EAT.
- PROVIDE MERV 8 PLEATED THROWAWAY AIR FILTERS.
- PROVIDE FACTORY MOUNTED DISCONNECT SWITCH INSTALLED ON SERVICE SIDE OF UNIT.
- STARTERS FOR ALL MOTORS SHALL BE FURNISHED INTEGRAL WITH UNIT.
- PROVIDE WITH CONDUIT KIT AND JUNCTION BOX FOR HARDWIRING.
- PROVIDE WITH WALL MOUNTED THERMOSTAT.
- PROVIDE WITH WALL SLEEVE.

RADIANT HEATER SCHEDULE (ELECTRIC)

MARK	LOCATION	MANUFACTURER	MODEL	MOUNTING TYPE	SIZE (L" x W")	INPUT (W)	VOLTS	PHASE	NOTES
RH 1	CONCESSION	QMARK	HRK42027	RECESSED	5.5"x46"	2000.0 W	277 V	1	A,B
RH 2	CONCESSION	QMARK	HRK42027	RECESSED	5.5"x46"	2000.0 W	277 V	1	A,B

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NOTES:

- DIVISION 26 TO PROVIDE SINGLE TIMER SWITCH TO CONTROL 2 RADIANT HEATERS.
- DIVISION 26 TO PROVIDE LINE VOLTAGE THROUGH TIMER SWITCH TO UNITS.

FAN SCHEDULE

MARK	LOCATION	SERVICE DESCRIPTION	MANUFACTURER	MOUNTING	MODEL	CFM	ESP (IN)	NOM HP	FAN RPM	DRIVE (BELT/DIRECT)	ELECTRICAL	WEIGHT (LBS)	NOTES	
EF 1	MENS RESTROOM	EXHAUST	GREENHECK	INLINE	SO-100-VG	1100	0.25	0.25	1456	DIRECT	115/1	NON-FUSED	45	A,B,C,D
EF 2	WOMENS RESTROOM	EXHAUST	GREENHECK	INLINE	SO-100-VG	1000	0.25	0.25	1352	DIRECT	115/1	NON-FUSED	45	A,B,C,D
EF 3	CONCESSION	EXHAUST	GREENHECK	INLINE	SO-100-VG	1100	0.25	0.25	1456	DIRECT	115/1	NON-FUSED	45	A,B,C,D
TF 1	RESTROOMS	TRANSFER	GREENHECK	WALL	CBF	500	0.20	0.05	1050	DIRECT	115/1	NON-FUSED	17	B,C,E
TF 2	RESTROOMS	TRANSFER	GREENHECK	WALL	CBF	500	0.20	0.05	1050	DIRECT	115/1	NON-FUSED	17	B,C,E
TF 3	RESTROOMS	TRANSFER	GREENHECK	WALL	CBF	500	0.20	0.05	1050	DIRECT	115/1	NON-FUSED	17	B,C,E

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NOTES:

- PROVIDE RUBBER IN SHEAR ISOLATION AND ALL-THREAD HANGING RODS.
- PROVIDE FACTORY MOUNTED DISCONNECT SWITCH.
- PROVIDE WITH MANUFACTURER'S FAN SPEED CONTROLLER FOR BALANCING PURPOSES.
- PROVIDE WITH MANUFACTURER'S ELECTRONICALLY COMMUTATED (EC) MOTOR.
- PROVIDE WITH WALL MOUNTED TEMPERATURE SENSOR.

SEQUENCE OF OPERATIONS MISCELLANEOUS EQUIPMENT

EXHAUST FAN (EF-1,2,3)

OPERATING MODES

OCCUPIED MODE:

The units shall be in occupied mode when the room light switch is turned on.

UNOCCUPIED MODE:

The units shall be in unoccupied mode for all periods when the room light switch is turned off.

COMPONENT CONTROL LOOPS

The units shall be controlled by the room lighting controls system. A 2 position motorized damper at the intake louver shall be linked with the exhaust fan.

When in occupied mode:

The unit shall run continuously.

2 position motorized damper at intake louver shall be open.

When in unoccupied mode:

The unit shall be off.

2 position motorized damper at intake louver shall be closed.

TRANSFER FAN (TF-1,2,3)

OPERATING MODES

STANDBY MODE:

The units shall be in standby mode when the zone temperature (Z-T) is above space temperature setpoint of 50 F.

TRANSFER MODE:

The units shall be in transfer mode when the zone temperature (Z-T) falls below space temperature setpoint of 50 F.

COMPONENT CONTROL LOOPS

The units shall operate as an independent system. Each unit shall be controlled by a wall mounted thermostat located within the respective plumbing chase.

When in Standby Mode:

The unit shall remain off.

When in Transfer Mode:

The unit shall be on.

The unit shall remain on until space temperature as sensed by the wall mounted thermostat is above space temperature setpoint of 50 F.

ELECTRIC UNIT HEATER (UH-1,2,3,4,5,6,8,9,10,11)

OPERATING MODES

STANDBY MODE:

The units shall be in standby mode when the zone temperature (Z-T) is above space temperature setpoint.

HEATING MODE:

The units shall be in heating mode when the zone temperature (Z-T) falls below space temperature setpoint.

COMPONENT CONTROL LOOPS

The units shall operate as an independent system. The units shall be controlled by a wall mounted thermostat located within each respective space.

When in Standby Mode:

The unit shall remain off.

When in Heating Mode:

The unit shall be on.

The unit shall stage/cycle heater as required to maintain space temperature setpoint of 68 F as sensed by the wall mounted thermostat.

ELECTRIC UNIT HEATER (UH-7,12)

OPERATING MODES

STANDBY MODE:

The unit shall be in standby mode when the timer switch is off.

HEATING MODE:

The unit shall be in heating mode when the timer switch is on.

COMPONENT CONTROL LOOPS

The units shall operate as an independent system. The units shall be controlled by a timer switch located within each respective room.

When in Standby Mode:

The unit shall remain off.

When in Heating Mode:

The unit shall stage/cycle heater as required to maintain space temperature setpoint of 68 F as sensed by the integral thermostat.

FAN-POWERED TERMINAL HEATER (FPH-1,2,3,4,5)

OPERATING MODES

STANDBY MODE:

The unit shall be in standby mode when the timer switch is off.

HEATING MODE:

The unit shall be in heating mode when the timer switch is on.

COMPONENT CONTROL LOOPS

The units shall operate as an independent system. The units shall be controlled by a timer switch located within each respective space.

When in Standby Mode:

The unit shall remain off.

When in Heating Mode:

The unit shall stage/cycle cooling as required to maintain space temperature setpoint of 80 F as sensed by the wall mounted thermostat.

RADIANT PANEL (RH-1,2)

OPERATING MODES

STANDBY MODE:

The units shall be in standby mode when the timer switch is off.

HEATING MODE:

The units shall be in heating mode when the timer switch is on.

COMPONENT CONTROL LOOPS

The units shall operate as an independent system. The units shall be controlled by a single timer switch located within the room.

When in Standby Mode:

The unit shall remain off.

When in Heating Mode:

The unit shall be on.

ELECTRICAL SYMBOLS

THIS IS A MASTER LEGEND AND NOT ALL SYMBOLS OR ABBREVIATIONS ARE USED.

Table with columns: STANDARD MOUNTING HEIGHTS, ANNOTATION, and SYMBOLS. Includes symbols for mechanical or fire protection, plumbing, electrical, and technology plan callouts.

INSTALL OUTLET BOXES AT THE MOUNTING HEIGHTS SHOWN ABOVE UNO IN THE CONSTRUCTION DOCUMENTS. MOUNTING HEIGHTS LISTED ABOVE, OR ELSEWHERE IN THE CONSTRUCTION DOCUMENTS, ARE TO BE USED FROM THE BOTTOM OF OUTLET BOX, UNO. ALL DEVICES SHALL BE INSTALLED IN COMPLIANCE WITH CURRENT ADA AND LOCAL REQUIREMENTS.

ABBREVIATIONS

Table of abbreviations for electrical symbols, including terms like AF (AMPERE FUSE SIZE), MTD (MOTOR CONTROL CENTER), and various equipment types.

LINETYPE LEGEND

THROUGHOUT THE DRAWINGS DIFFERENT LINETYPES ARE USED IN COMBINATION WITH THE SYMBOLS TO INDICATE THE STATUS OF ITEMS AS EXISTING, TO BE DEMOLISHED, TO BE INCLUDED AS NEW WORK, AND/OR ITEMS WHICH ARE ANTICIPATED TO BE PROVIDED IN THE FUTURE.

Table with columns: EXISTING, NEW, DEMOLISH, and FUTURE, showing line styles for each status.

SPECIAL SYSTEMS SUPPLEMENTAL SPECIFICATIONS:

- 1. PROVIDE NECESSARY BOXES, CONDUIT AND MAKE FINAL CONNECTIONS TO TEMPERATURE CONTROL DEVICES PER MANUFACTURER'S RECOMMENDATIONS. THIS INCLUDES BUT IS NOT LIMITED TO: MAIN CONTROL PANELS, THERMOSTATS, HUMIDISTATS, ACS SOLENOIDS, HEAT RECLAIM WIRING, AHU CONTROL WIRING, DUCT FURNACE CONTROL WIRING, TIMERS, AND SIMILAR CONTROLS. PROVIDE CONDUIT FOR ALL WIRING WITHIN WALLS. PROVIDE CONTROL AND INTERLOCK WIRING WHEN NOT PROVIDED BY OTHER TRADES. COORDINATE REQUIREMENTS WITH EQUIPMENT SUPPLIERS AND OTHER TRADES PRIOR TO ROUGH-IN.

Table with columns: ANNOTATION, SYMBOLS, and DESCRIPTIONS. Includes symbols for equipment designation, connection points, and section cut designations.

CIRCUITING & WIRING

Table of circuiting and wiring symbols, including HOMERUN TO PANELBOARD, CONDUIT CONCEALED, EXPOSED CONDUIT, and various conduit types.

CONDUCTOR TICK MARK LEGEND

Table explaining conductor tick marks, including symbols for switched hot conductors, neutral conductors, and grounded conductors.

BRANCH CIRCUIT CONDUCTOR TABLE

Table showing conductor requirements based on the number of poles and whether they are hot, phase, grounded, or ungrounded.

PROVIDE ADDITIONAL CONDUCTORS THROUGH ENTIRE CIRCUIT (SWITCHED, UNSWITCHED, ETC.), AS INDICATED THROUGHOUT CONSTRUCTION DOCUMENTS AND AS REQUIRED FOR A COMPLETE AND WORKING SYSTEM.

REFER TO SPECIFICATIONS FOR LIMITATIONS ON SHARING NEUTRAL (GROUNDED) CONDUCTORS. DO NOT CIRCUIT AS A MULTIWIRE BRANCH CIRCUIT, UNO.

PROVIDE ADDITIONAL ISOLATED GROUNDING CONDUCTORS WHERE INDICATED.

REFER TO SPECIFICATIONS, PLANS, NOTES, WIRING AND CONDUIT DIAGRAMS FOR ADDITIONAL CIRCUITING REQUIREMENTS.

SIGNALING

Table of signaling symbols, including signaling bell, signaling buzzer, and LV transformer.

LIGHTING

Table of lighting symbols, including light fixture, emergency light, night light, and exterior lighting fixtures.

POWER EQUIPMENT & DEVICES

Table of power equipment and device symbols, including electrical panelboard, electrical cabinet, transformer, and various switches.

BOXES, LIGHTING CONTROL & WIRING DEVICES

Table of boxes, lighting control, and wiring device symbols, including switch letter designations, automatic load control, branch circuit transfer switch, and various receptacles.

ELECTRICAL ONE-LINE & RISER DIAGRAM

Table of electrical one-line and riser diagram symbols, including switch ratings, fused circuit breaker, drawout switch, and various transformer and meter symbols.

ELECTRICAL GENERAL NOTES:

- 1. EXISTING CONDITIONS WERE TAKEN FROM ORIGINAL DRAWINGS AND SITE VISITS AND MAY NOT REFLECT ACTUAL "AS-BUILT" CONDITIONS. VERIFY EXISTING CONDITIONS PRIOR TO SUBMITTING FINAL BID. COORDINATE NEW AND DEMOLITION WORK WITH ALL OTHER TRADES AND EXISTING CONDITIONS.

ELECTRICAL SUPPLEMENTAL SPECIFICATIONS:

- 1. PRIOR TO SUBMITTING BID, VISIT THE JOB SITE AND BECOME FULLY ACQUAINTED WITH THE EXISTING CONDITIONS. AS APPLICABLE, REVIEW THE OWNER CRITERIA, GENERAL NOTES, OTHER TRADE DRAWINGS AND SPECIFICATIONS FOR ADDITIONAL REQUIREMENTS THAT MAY NOT BE CALLED OUT IN THIS PROJECT'S CONSTRUCTION DOCUMENTS. NOTIFY ARCHITECT AND ENGINEER OF ANY CONFLICTS OR DISCREPANCIES PRIOR TO SUBMITTING BID.

APPLICABLE ELECTRICAL CODES:

NOTE: PROJECT IS DESIGNED IN COMPLIANCE WITH THE FOLLOWING CODES. THIS IS NOT AN EXHAUSTIVE LIST. PROJECT SHALL COMPLY WITH ALL APPLICABLE CODES, STANDARDS AND LOCAL REQUIREMENTS. REFER TO THE SPECIFICATIONS FOR ADDITIONAL REQUIREMENTS.

ELECTRICAL CODE: 2017 NATIONAL ELECTRICAL CODE, (NFPA 70) BUILDING CODE: 2015 INTERNATIONAL BUILDING CODE ENERGY CODE: NOT ADOPTED

COMMISSIONING / FUNCTIONAL TESTING:

CONTRACTOR'S BID SHALL INCLUDE PROVISIONS TO PROVIDE ALL SERVICES RELATED TO THE CODE REQUIRED BUILDING SYSTEMS COMMISSIONING INCLUDING A COMMISSIONING PLAN, FUNCTIONAL TESTING, AND RELATED DOCUMENTATION, REPORTS AND OWNER TRAINING. THIS INCLUDES RETAINING THE SERVICES OF A 3RD PARTY REGISTERED DESIGN PROFESSIONAL OR APPROVED AGENCY. REFER TO THE LATEST ADOPTED EDITION OF THE APPLICABLE ENERGY CODE FOR MORE INFORMATION. CONTRACTOR SHALL COMPLETE ALL RELATED COMMISSIONING REQUIREMENTS PRIOR TO FINAL INSPECTIONS IN ACCORDANCE WITH THE CONSTRUCTION DOCUMENTS, CODE AND MANUFACTURER'S INSTRUCTIONS.

Lee's Summit R7 District Athletics Facilities

Lee's Summit High School 400 SW Blue Parkway Lee's Summit, MO 64063

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structural engineer: Bob D. Campbell & Company, Inc. 4338 Bellevue Avenue Kansas City, MO 64111 816.531.4144

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mechanical/electrical engineer: Henderson Engineers 8345 Lenexa Drive | Suite 300 Lenexa, KS 66214 816.742.5000

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Sep 25 2020

REVISIONS

Table with columns: Number, Description, Date. Includes revision 1: PROJECT NO: 0119-0101, DATE: September 28, 2020.

ELECTRICAL GENERAL NOTES AND LEGEND

H-E000

Lee's Summit R7 District
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Lee's Summit High School
400 SW Blue Parkway
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301 NE Tudor Road
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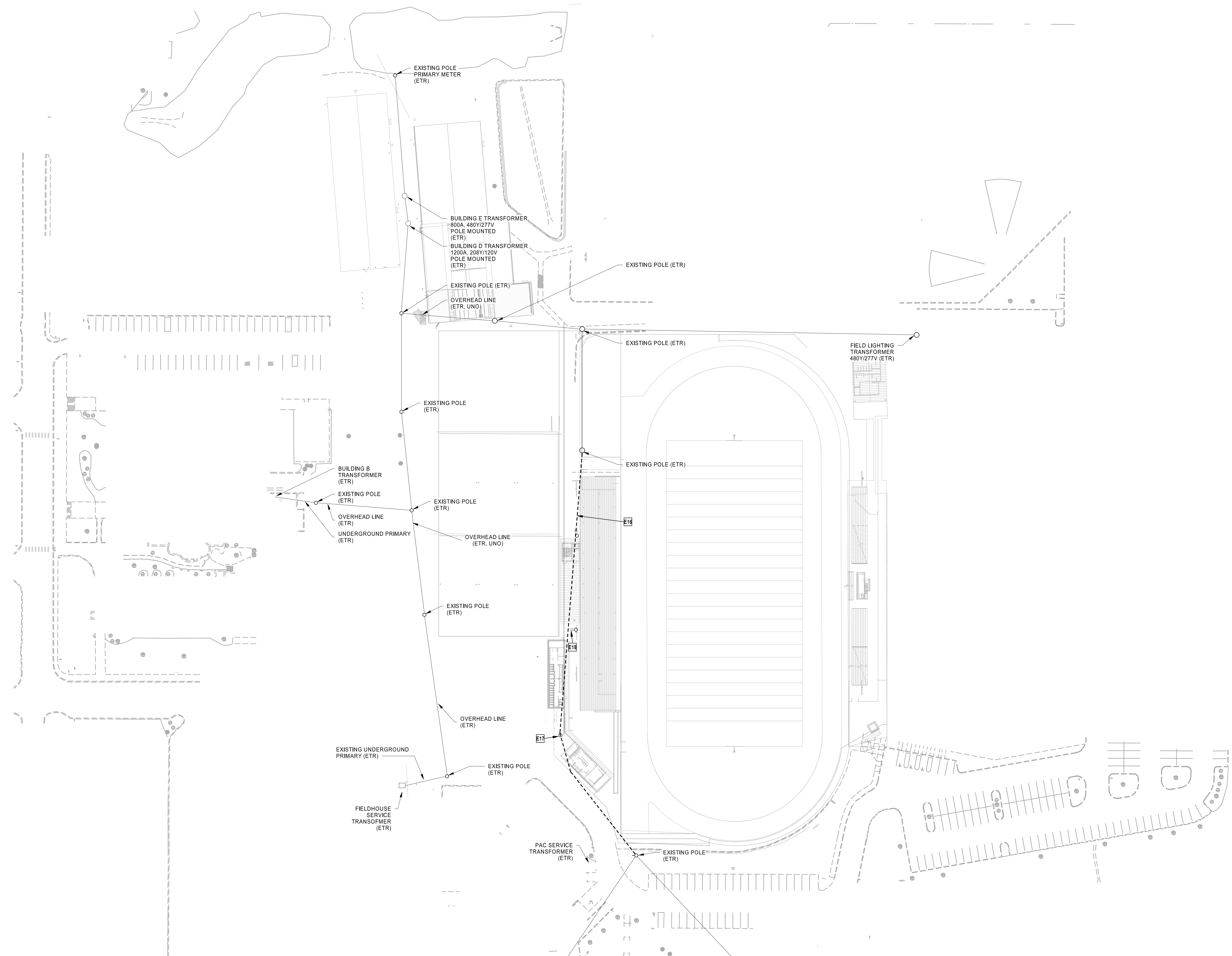
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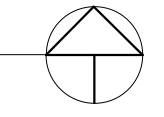
civil engineer:
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- ELECTRICAL PLAN NOTES:**
- E16 DEMOLISH OVERHEAD LINE, POLES, AND TRANSFORMERS ALONG DASHED LINE.
 - E17 SALVAGE EXISTING 240V/120V SINGLE PHASE TRANSFORMER AND TURN OVER TO OWNER FOR REUSE.
 - E18 APPROXIMATE LOCATION OF TENNIS COURT LIGHTING CONTROLLER TO BE RELOCATED IN NEW WORK.



1 ELECTRICAL DEMO SITE PLAN
1" = 50'-0"



CURTIS A. OLUS

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EXPIRES 12/31/2020



Sep 25 2020

REVISIONS

Number	DESCRIPTION	DATE

PROJECT NO: 0119-0101
DATE: September 28, 2020

ELECTRICAL SITE PLAN
- DEMO

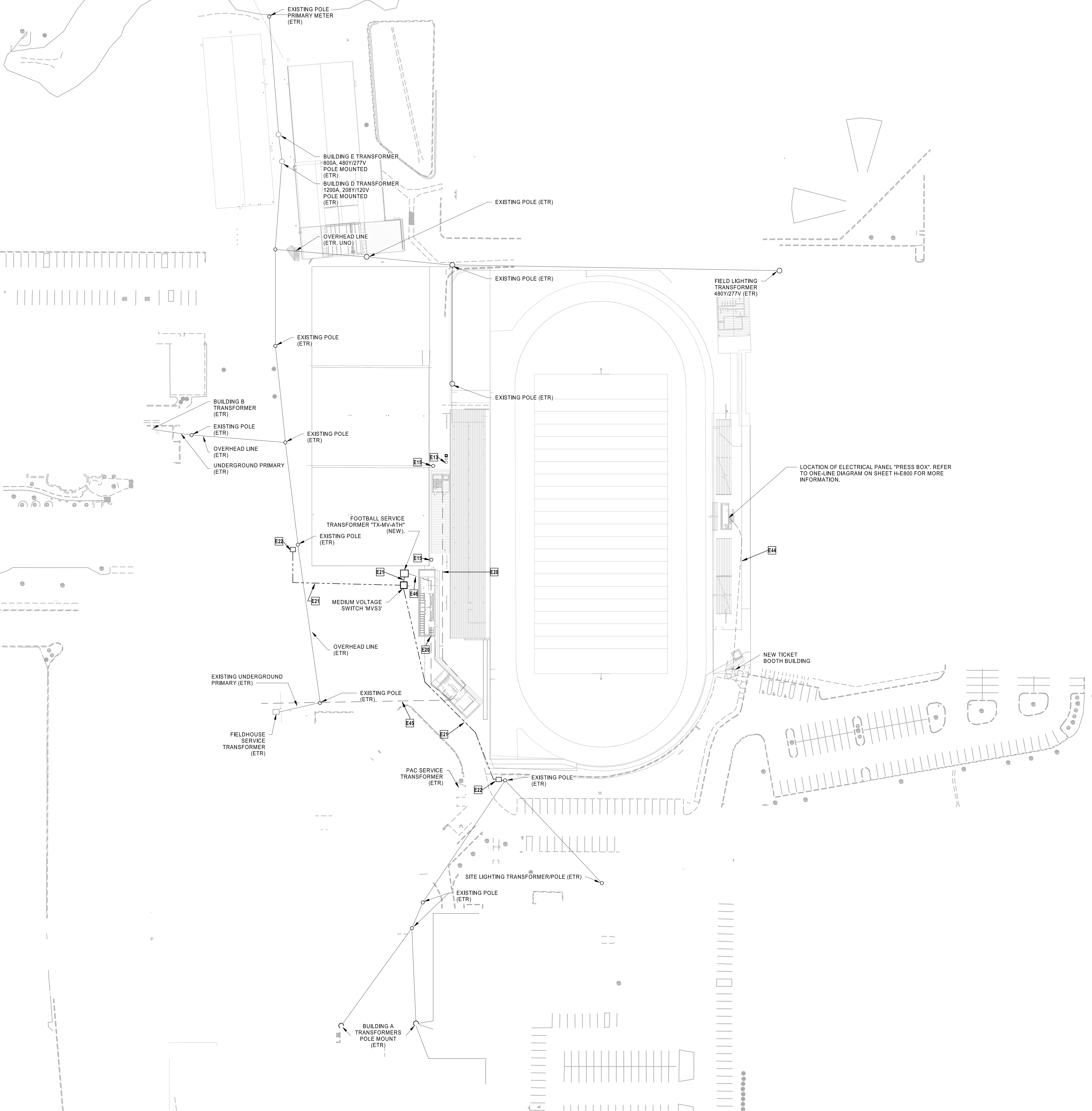
H-E001

BID SET

1 ELECTRICAL SITE PLAN
1" = 50'-0"

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CURTIS A. OLDS



- ELECTRICAL PLAN NOTES:**
- E13 APPROXIMATE LOCATION OF EXISTING TENNIS COURT LIGHTING CABINET.
 - E15 NEW LOCATION OF EXISTING TENNIS COURT LIGHT POLES. PROVIDE NEW FEEDER FROM POLE LOCATION TO TENNIS COURT LIGHTING CABINET. NEW FEEDER SHALL MATCH EXISTING SIZE. RE-AM FIXTURES TO MAINTAIN UNIFORM ILLUMINATION ACROSS THE TENNIS COURTS.
 - E20 PROVIDE THE FOLLOWING: 2" CONDUIT FOR TELECOM, CONDUIT FOR ELECTRICAL FEEDER, AND (1) 1" SPARE CONDUIT BETWEEN BUILDINGS AS SHOWN. REFER TO ELECTRICAL ONE-LINE DIAGRAM ON SHEET H-E800 FOR ELECTRICAL FEEDER CONDUIT SIZING. COORDINATE ROUTING WITH CIVIL ENGINEER.
 - E21 NEW UNDERGROUND PRIMARY ROUTING SHOWN FOR DIAGRAMMATIC PURPOSES. COORDINATE ROUTING AND DEPTH OF MEDIUM VOLTAGE CONDUITS WITH CIVIL DRAWINGS. REFER TO ONE-LINE DIAGRAM FOR CONDUIT AND WIRE SIZES.
 - E22 HAND HOLE FOR CONNECTION TO EXISTING POLE MOUNTED MEDIUM VOLTAGE INFRASTRUCTURE.
 - E44 PROVIDE THE FOLLOWING: 2" CONDUIT FOR TELECOM, CONDUIT FOR ELECTRICAL FEEDER, AND (1) 1" SPARE CONDUIT BETWEEN BUILDINGS AS SHOWN. REFER TO ELECTRICAL ONE-LINE DIAGRAM ON SHEET H-E800 FOR ELECTRICAL FEEDER CONDUIT SIZING. COORDINATE ROUTING WITH CIVIL ENGINEER.
 - E45 PROVIDE (2) 2" CONDUITS FOR TELECOM. ROUTE FROM IDF ROOM AT SCHOOL BUILDING TO CONCESSION BUILDING. COORDINATE ROUTING WITH CIVIL ENGINEER AND OWNER.
 - E46 REFER TO ELECTRICAL ONE-LINE ON SHEET H-E800 FOR CONDUIT SIZING FROM TX-MV-ATH TO MDP.

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REVISIONS

Number	DESCRIPTION	DATE

PROJECT NO: 0119-0101
DATE: September 28, 2020

ELECTRICAL SITE PLAN
- NEW

H-E002

BID SET

Lee's Summit R7 District
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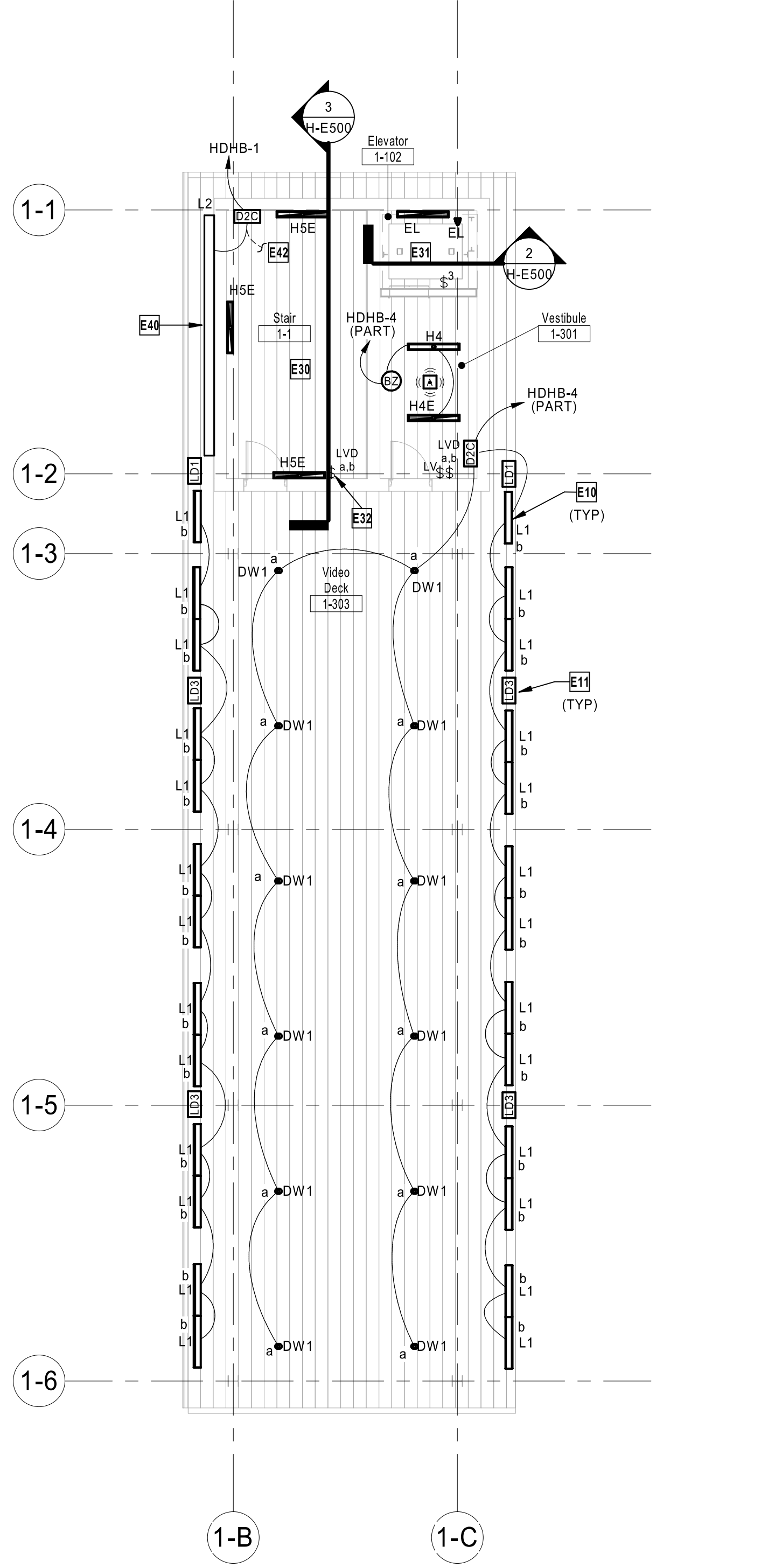
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ELECTRICAL GENERAL NOTES:

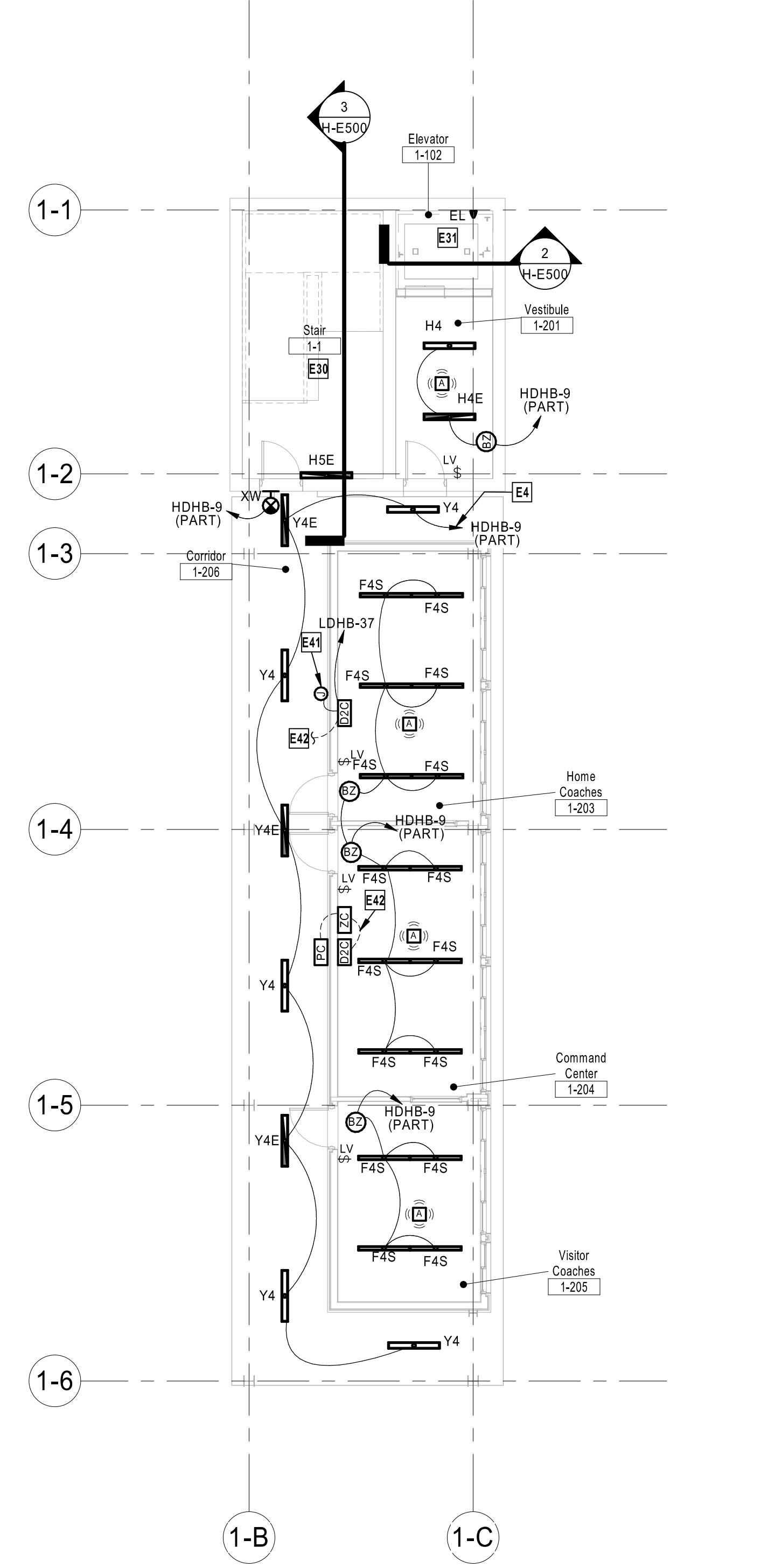
1. LIGHTING IS TO BE CIRCUITED BACK TO 480/277V PANEL LOCATED IN THE SAME BUILDING THE LIGHTING IS LOCATED IN UNLESS OTHERWISE NOTED. CIRCUIT AS NOTED IN FIXTURE TAG.
2. LIGHTING CONTROL DEVICES SHALL CONTROL LIGHTING IN THE ASSOCIATED ROOM. REFER TO DETAIL 1 ON SHEET H-E700.
3. H5HSE FIXTURES ARE CONTROLLED BY INTEGRAL OCCUPANCY SENSOR.

ELECTRICAL PLAN NOTES:

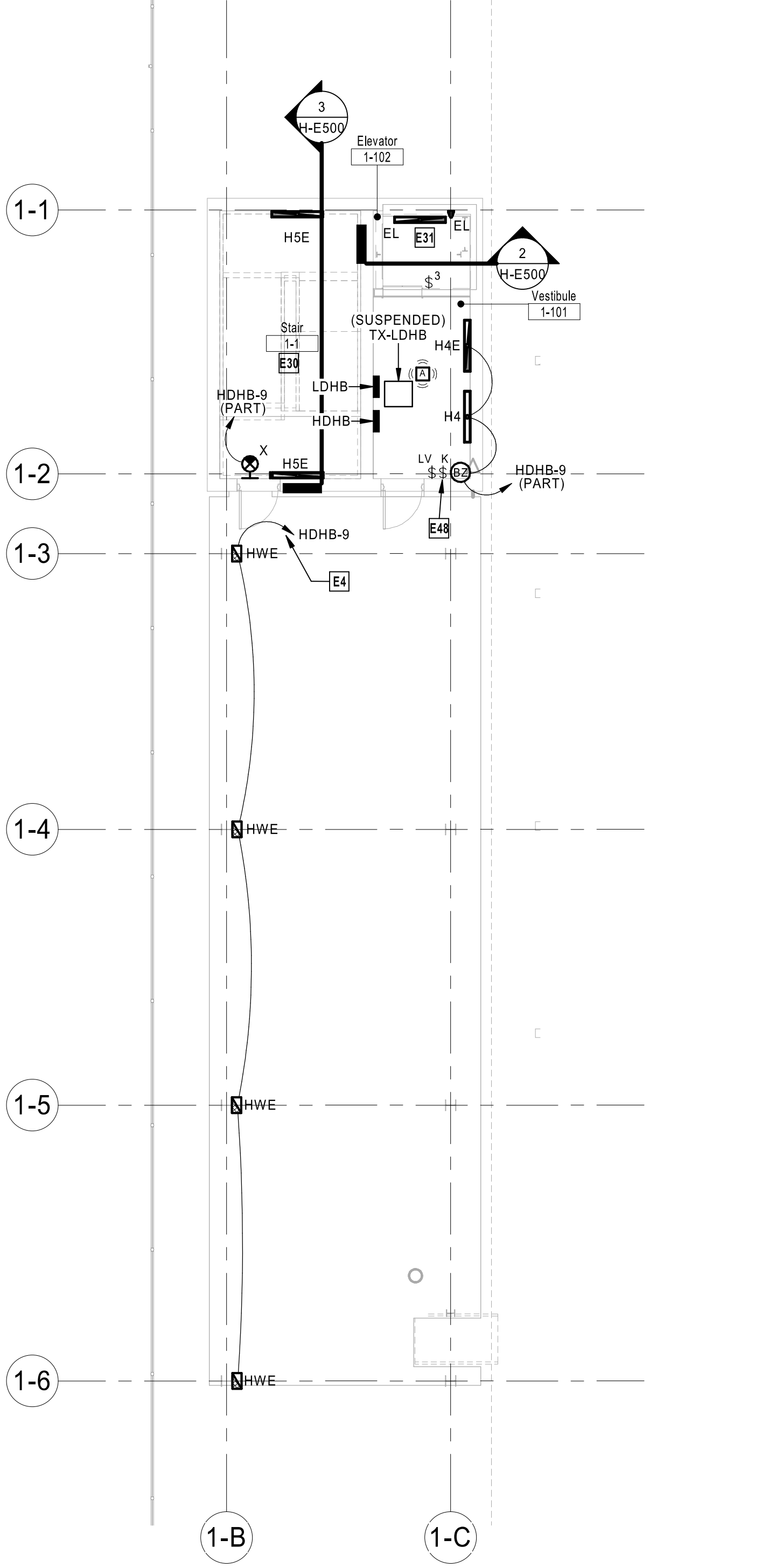
- E4 ROUTE CIRCUIT THROUGH ROOM CONTROLLER LOCATED IN ROOM 1-204.
- E10 MOUNT TAPE LIGHT TO THE FACE OF THE STRUCTURAL BEAM. MOUNT AS LOW ON BEAM AS POSSIBLE. FIXTURE INTENDED TO GRAZE THE ROOF. COORDINATE EXACT LOCATION WITH STRUCTURAL MEMBERS.
- E11 2AV LED TAPE LIGHT TO BE FED FROM NEMA-3R 0-10V DIMMING (1) AND (3) OUTPUT 277/24V 98W LED DRIVERS. REFER TO LIGHT FIXTURE SCHEDULE FOR DRIVER SPECIFICATIONS. COORDINATE PLACEMENT AND NUMBER OF DRIVERS WITH FIXTURE LENGTHS. INSTALL PER MANUFACTURER'S SPECIFICATIONS.
- E30 REFER TO SECTION 2 ON SHEET H-E500 FOR CIRCUITING INFORMATION OF STAIRWAY LIGHTING. CONTROL TO BE FROM INTEGRAL OCCUPANCY SENSORS ON EACH LIGHT FIXTURE.
- E31 REFER TO SECTION 3 ON SHEET H-E500 FOR CIRCUITING INFORMATION OF ELEVATOR SHAFT LIGHTING. ENTIRE SHAFT TO BE CONTROLLED BY 3-WAY SWITCH AT TOP AND BOTTOM OF SHAFT.
- E32 LOCATE SWITCH ADJACENT TO DOOR, SHOWN OFFSET FOR DRAWING CLARITY.
- E40 FIXTURE TO LIGHT SIGNAGE/GRAPHIC. COORDINATE MOUNTING LOCATION AND HEIGHT WITH OWNER. CONTROL VIA PHOTOCELL AND TIMESWITCH IN COMMAND CENTER 1-202.
- E41 POWER CONNECTION FOR BACK LIT SIGN. COORDINATE LOCATION AND REQUIREMENTS WITH OWNER AND SIGN MANUFACTURER PRIOR TO ROUGH-IN.
- E42 CONNECT LOW VOLTAGE WIRE TO ZONE CONTROLLER IN ROOM 2-104 TO PROVIDE PHOTO CELL AND TIME CLOCK CONTROL. REFER TO DETAIL 4 ON SHEET H-E700 FOR MORE INFORMATION.
- E48 PROVIDE LINE VOLTAGE KEYSWITCH AND CONNECT TO HOLD-ON INPUTS OF POWER PACK. PROVIDE PERMANENT TYPEWRITTEN LABEL ON COVERPLATE STATING "PANEL MAINTENANCE LIGHTING".



③ HOME PRESS BOX - LEVEL 3 LIGHTING RCPS
1/8" = 1'-0"



② HOME PRESS BOX - LEVEL 2 LIGHTING RCP
1/8" = 1'-0"



① HOME PRESS BOX - LIGHTING RCP
1/8" = 1'-0"

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EXPIRES 12/31/2020



Sep 25 2020

REVISIONS

Number	DESCRIPTION	DATE

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HOME PRESS BOX -
LIGHTING RCPS
H-E111
BID SET

Lee's Summit R7 District
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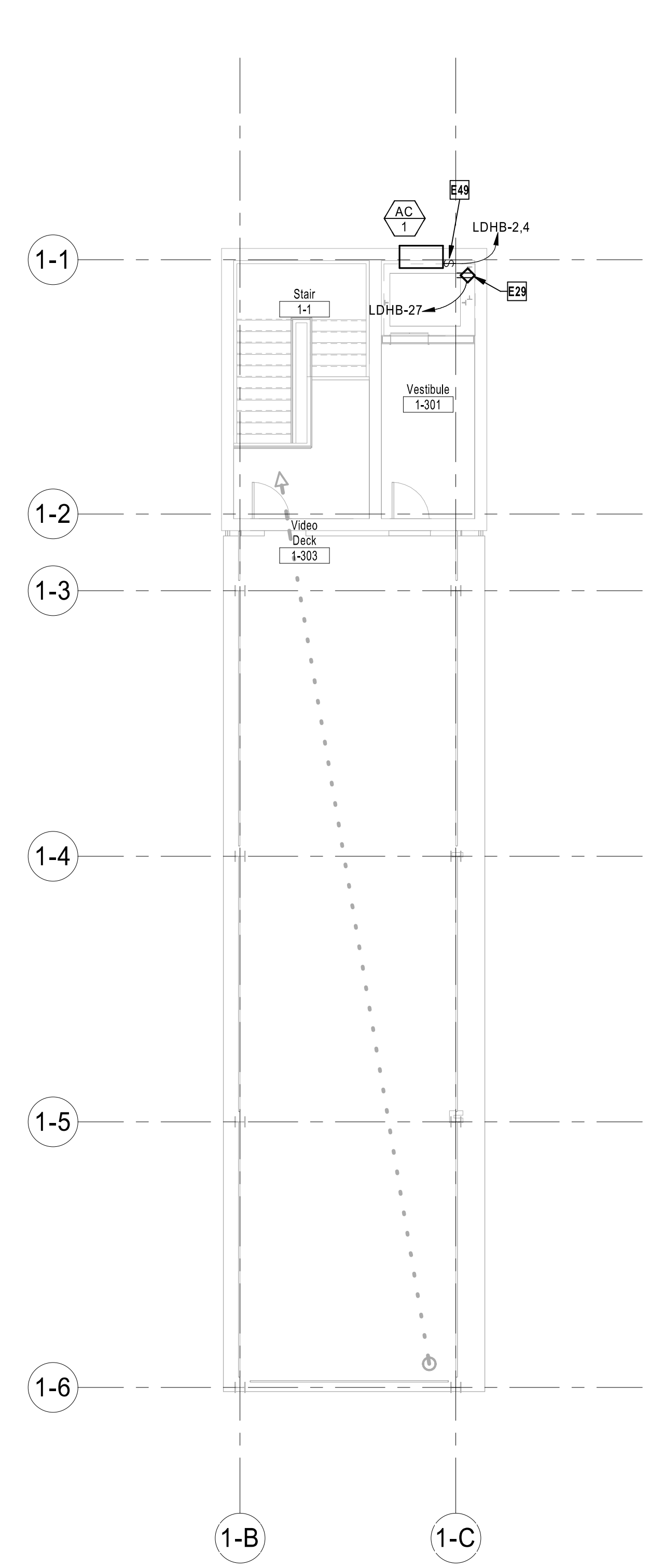
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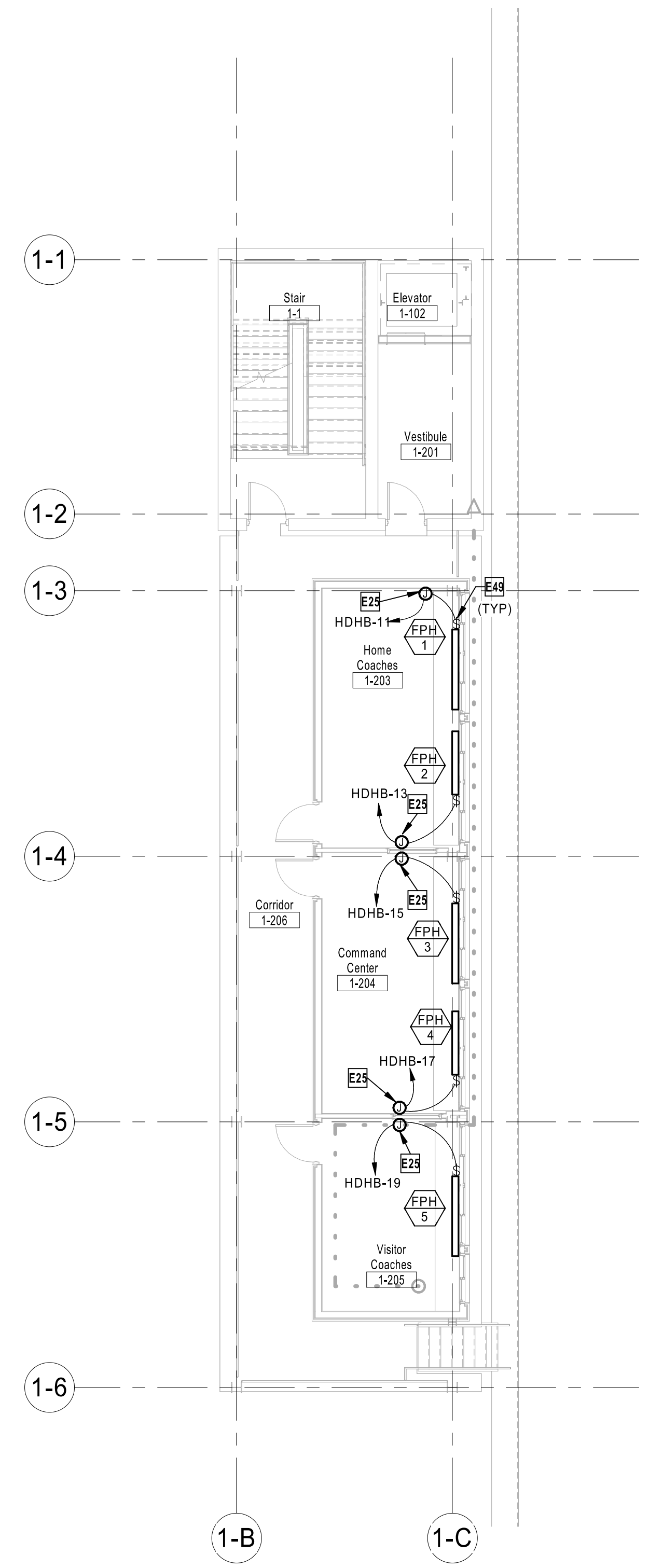
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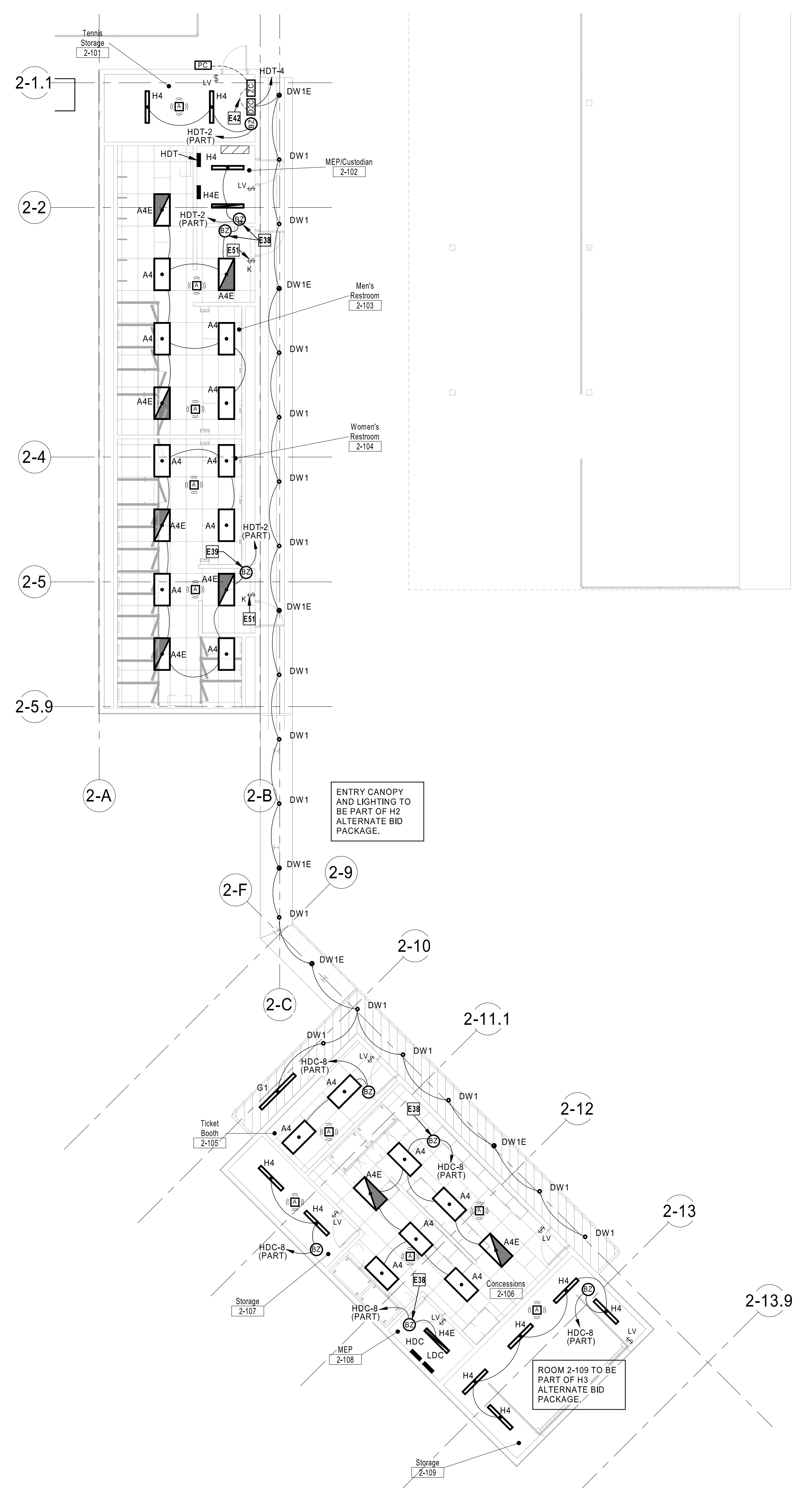
ELECTRICAL PLAN NOTES:

- E25 PROVIDE MARKTIME 70AB SERIES HEAVY DUTY TIMER FOR CONTROL OF HEATER. COORDINATE REQUIRED TIMER LENGTH WITH OWNER.
- E29 MAINTENANCE RECEPTACLE LOCATED AT TOP OF ELEVATOR SHAFT. COORDINATE EXACT LOCATION WITH ELEVATOR.
- E37 POWER CONNECTION FOR ELEVATOR CAB LIGHTING, AND CAB HVAC. COORDINATE EXACT LOCATION AND CONNECTION REQUIREMENTS WITH MANUFACTURER PRIOR TO ROUGH-IN.
- E49 DISCONNECT SWITCH IS INTEGRAL TO MECHANICAL EQUIPMENT. REFER TO MECHANICAL SCHEDULES ON SHEET H-M600 FOR MORE INFORMATION.



③ EQUIPMENT CONNECTION LEVEL 3 PLAN - HOME PRESS BOX
1/8" = 1'-0"





ELECTRICAL GENERAL NOTES:

1. LIGHTING IS TO BE CIRCUITED BACK TO 480/277V PANEL LOCATED IN THE SAME BUILDING THE LIGHTING IS LOCATED IN UNLESS OTHERWISE NOTED. CIRCUIT AS NOTED IN FIXTURE TAG.
2. LIGHTING CONTROL DEVICES SHALL CONTROL LIGHTING IN THE ASSOCIATED ROOM. REFER TO DETAIL 1 ON SHEET H-E700 UNLESS OTHERWISE NOTED.

ELECTRICAL PLAN NOTES:

- E38 LIGHTING CONTROL DEVICES SHALL CONTROL LIGHTING IN THE ASSOCIATED ROOM. REFER TO DETAIL 3 ON SHEET H-E700 FOR LIGHTING CONTROL INFORMATION.
- E39 LIGHTING CONTROL DEVICES SHALL CONTROL LIGHTING IN THE ASSOCIATED ROOM. REFER TO DETAIL 2 ON SHEET H-E700 FOR LIGHTING CONTROL INFORMATION.
- E42 CONNECT LOW VOLTAGE WIRE TO ZONE CONTROLLER IN ROOM 2-104 TO PROVIDE PHOTO CELL AND TIME CLOCK CONTROL. REFER TO DETAIL 4 ON SHEET H-E700 FOR MORE INFORMATION.
- E51 PROVIDE KEYSWITCH ON LOAD SIDE OF POWER PACK.

1 HOME GATEWAY - LIGHTING RCP
1/8" = 1'-0"

**Lee's Summit R7 District
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Sep 25 2020

REVISIONS

Number	DESCRIPTION	DATE

PROJECT NO: 0119-0101
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**HOME GATEWAY -
LIGHTING RCP**

H-E121

BID SET

Lee's Summit R7 District
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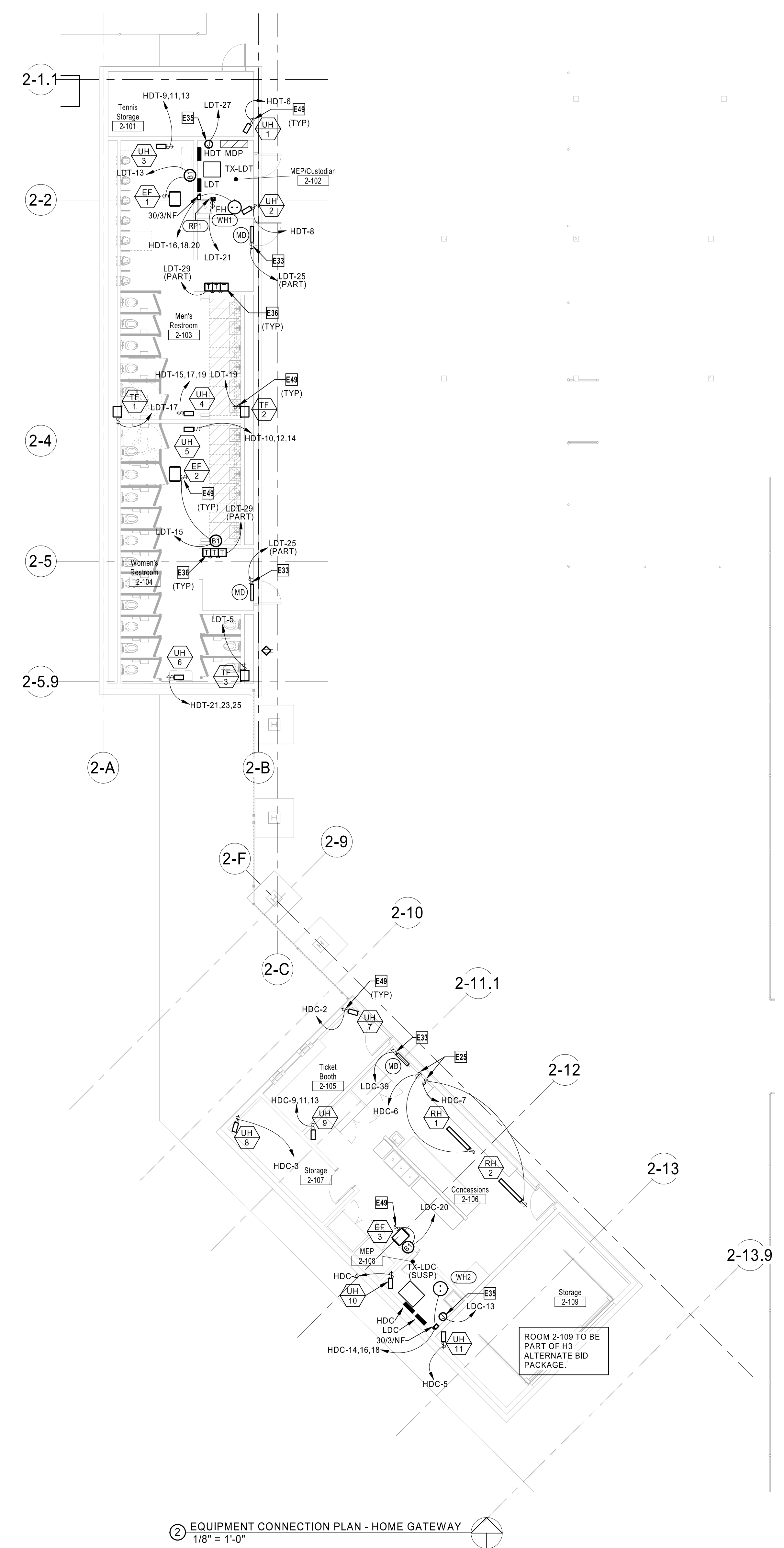
HOME GATEWAY -
ELECTRICAL PLANS
H-E122
BID SET

ELECTRICAL GENERAL NOTES:

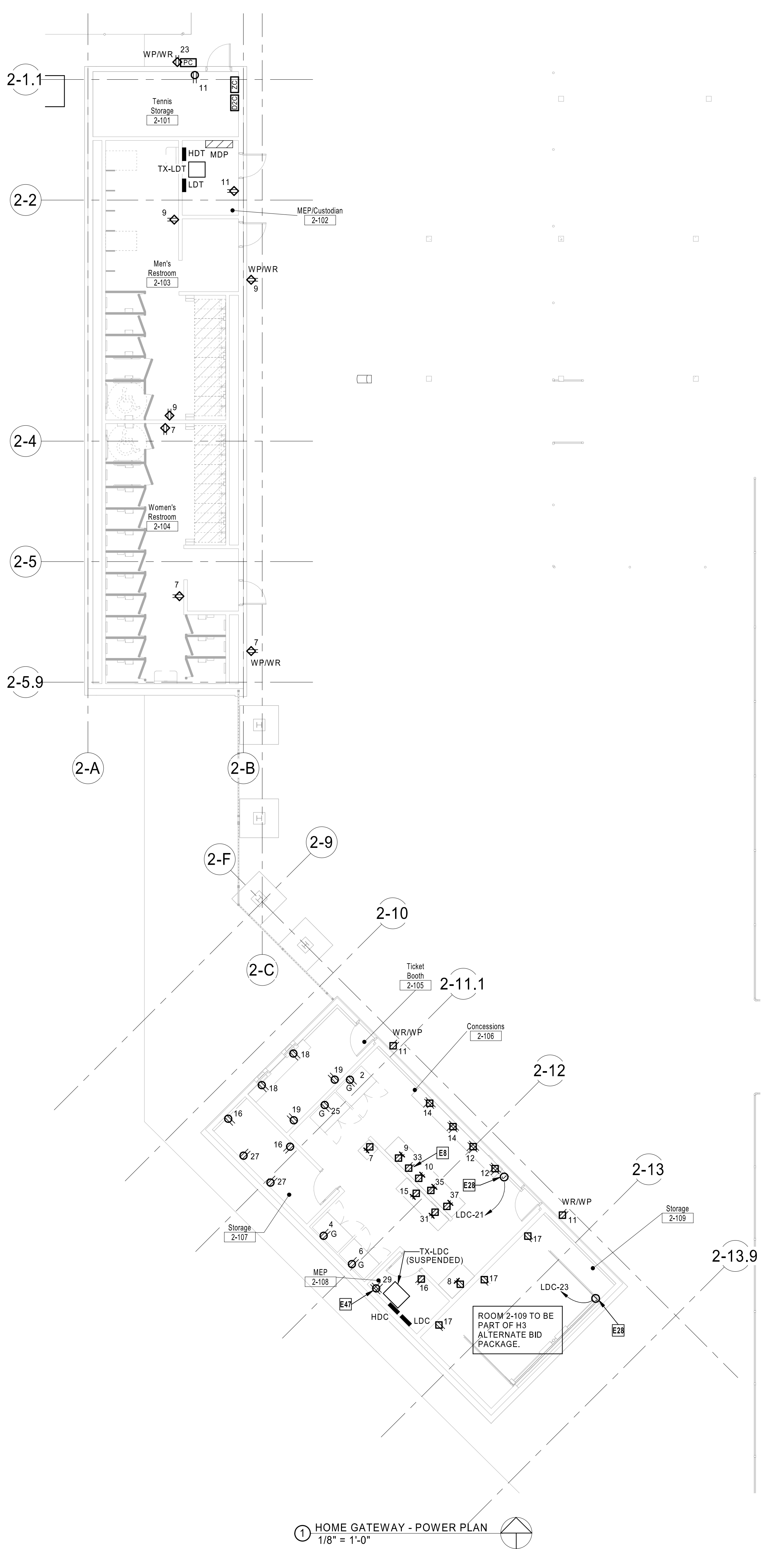
1. ALL WIRING DEVICES ARE CIRCUITED TO 208/120V PANEL IN SAME BUILDING. CIRCUIT AS NOTED BY NUMBER ADJACENT TO DEVICE.
2. REFER TO DETAIL 2 AND 3 ON SHEET H-E700 FOR EXHAUST FAN CONTROL DETAILS.

ELECTRICAL PLAN NOTES:

- E8 COORDINATE LOCATION OF MICROWAVE RECEPTACLE WITH OWNER PRIOR TO ROUGH-IN.
- E25 PROVIDE MARKTIME 70AB SERIES HEAVY DUTY TIMER FOR CONTROL OF HEATER. COORDINATE REQUIRED TIMER LENGTH WITH OWNER.
- E28 POWER CONNECTION TO OVERHEAD COILING DOOR. COORDINATE POWER REQUIREMENTS WITH SELECTED MANUFACTURER. COORDINATE CONTROLS WITH OWNER AND MANUFACTURER PRIOR TO ROUGH-IN.
- E33 CONTRACTOR TO PROVIDE 120V CONTROL POWER FOR LOUVER MOTOR OPERATED DAMPERS. COORDINATE EXACT LOCATION AND QUANTITY OF CONNECTIONS WITH MECHANICAL CONTRACTOR AND EQUIPMENT MANUFACTURER'S SPECIFICATIONS.
- E35 POWER CONNECTION TO DDC CONTROL PANEL. COORDINATE CONNECTION REQUIREMENTS WITH MANUFACTURER. REFER TO SHEET H-M121 FOR EXACT LOCATION.
- E36 POWER CONNECTION TO LOW VOLTAGE TRANSFORMER FOR PLUMBING FIXTURE. COORDINATE CONNECTION REQUIREMENTS WITH MANUFACTURER.
- E47 POWER CONNECTION FOR IT RACK. COORDINATE FINAL LOCATION WITH IT INSTALLER.
- E49 DISCONNECT SWITCH IS INTEGRAL TO MECHANICAL EQUIPMENT. REFER TO MECHANICAL SCHEDULES ON SHEET H-M600 FOR MORE INFORMATION.



2 EQUIPMENT CONNECTION PLAN - HOME GATEWAY
1/8" = 1'-0"



1 HOME GATEWAY - POWER PLAN
1/8" = 1'-0"

CURTIS A. OLTUS
PRINT DATE/TIME: 9/25/2020 1:59:19 PM

ELECTRICAL GENERAL NOTES:

1. LIGHTING IS TO BE CIRCUITED BACK TO 208/120V PANEL LOCATED IN THE SAME BUILDING THE LIGHTING IS LOCATED IN UNLESS OTHERWISE NOTED. CIRCUIT AS NOTED IN FIXTURE TAG.
2. ALL WIRING DEVICES ARE CIRCUITED TO 208/120V PANEL IN SAME BUILDING. CIRCUIT AS NOTED BY NUMBER ADJACENT TO DEVICE.
3. LIGHTING CONTROL DEVICES SHALL CONTROL ALL LIGHTING ASSOCIATED WITH THE TICKET BOOTH. REFER TO DETAIL 1 ON SHEET H-E700 FOR MORE INFORMATION.

ELECTRICAL PLAN NOTES:

- E25 PROVIDE MARKTIME 70AB SERIES HEAVY DUTY TIMER FOR CONTROL OF HEATER. COORDINATE REQUIRED TIMER LENGTH WITH OWNER.
- E49 DISCONNECT SWITCH IS INTEGRAL TO MECHANICAL EQUIPMENT. REFER TO MECHANICAL SCHEDULES ON SHEET H-M600 FOR MORE INFORMATION.

**Lee's Summit R7 District
Athletics Facilities**

Lee's Summit High School
400 SW Blue Parkway
Lee's Summit, MO 64063

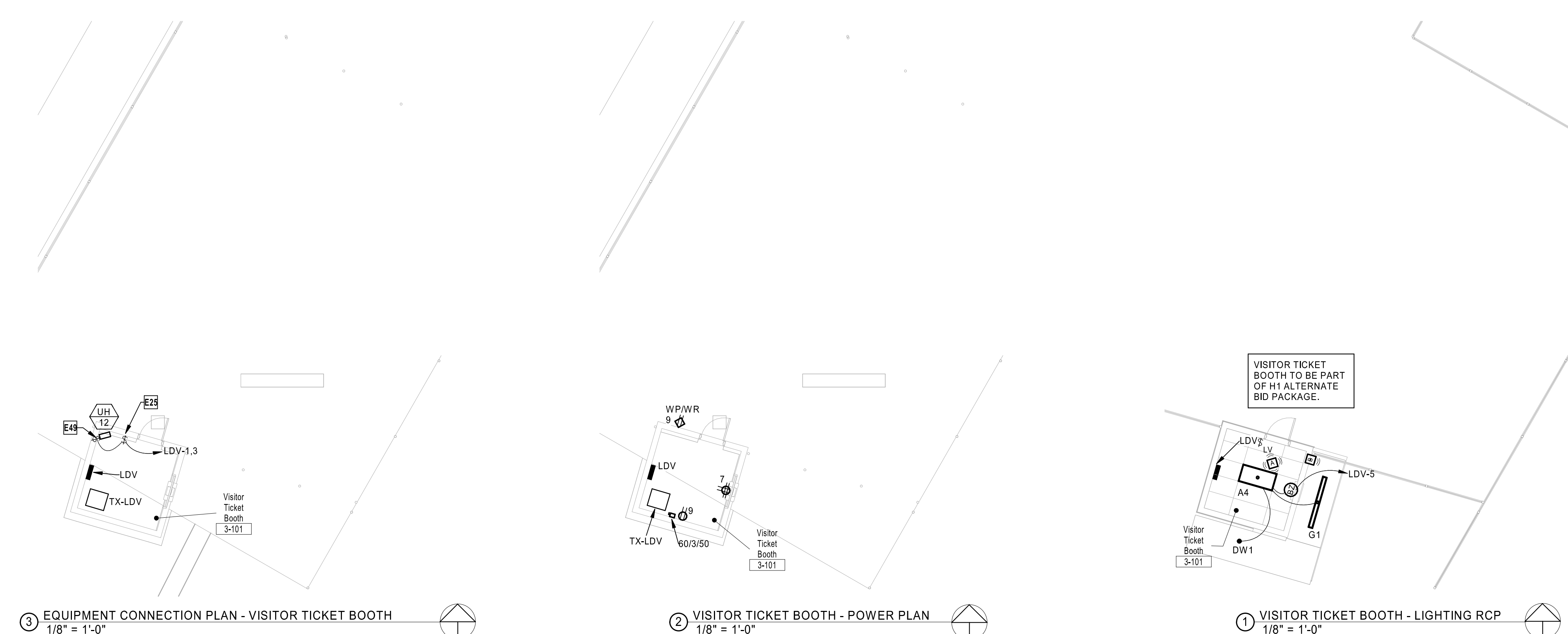
owner:
Lee's Summit R7 School District
301 NE Tudor Road
Lee's Summit, MO 64086

architect:
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Kansas City, MO 64111
816.931.6655 voice
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structural engineer:
Bob D. Campbell & Company, Inc.
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civil engineer:
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14700 West 124th Terrace
Lenexa, KS 66215
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mechanical/electrical engineer:
Henderson Engineers
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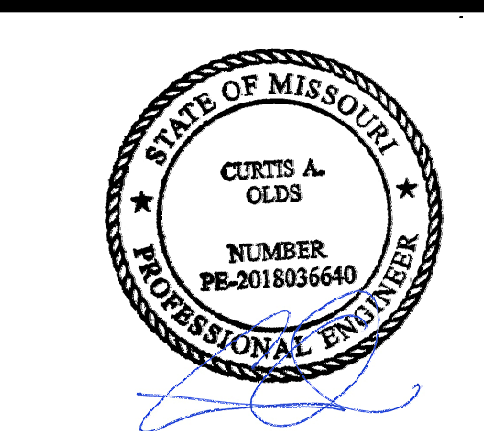


③ EQUIPMENT CONNECTION PLAN - VISITOR TICKET BOOTH
1/8" = 1'-0"

② VISITOR TICKET BOOTH - POWER PLAN
1/8" = 1'-0"

① VISITOR TICKET BOOTH - LIGHTING RCP
1/8" = 1'-0"

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EXPIRES 12/31/2020



Sep 25 2020

REVISIONS		
Number	DESCRIPTION	DATE

PROJECT NO: 0119-0101
DATE: September 28, 2020

**VISITOR TICKET BOOTH
- ELECTRICAL PLANS**

H-E131

BID SET

ELECTRICAL GENERAL NOTES:

1. LIGHTING IS TO BE CIRCUITED BACK TO 480/277V PANEL LOCATED IN THE SAME BUILDING THE LIGHTING IS LOCATED IN UNLESS OTHERWISE NOTED. CIRCUIT AS NOTED IN FIXTURE TAG.
2. LIGHTING CONTROLS DEVICES SHALL CONTROL LIGHTING IN THE ASSOCIATED ROOM. REFER TO DETAIL 1 ON SHEET H-E700.
3. H5/HSE FIXTURES ARE CONTROLLED BY INTEGRAL OCCUPANCY SENSOR.

**Lee's Summit R7 District
Athletics Facilities**

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400 SW Blue Parkway
Lee's Summit, MO 64063

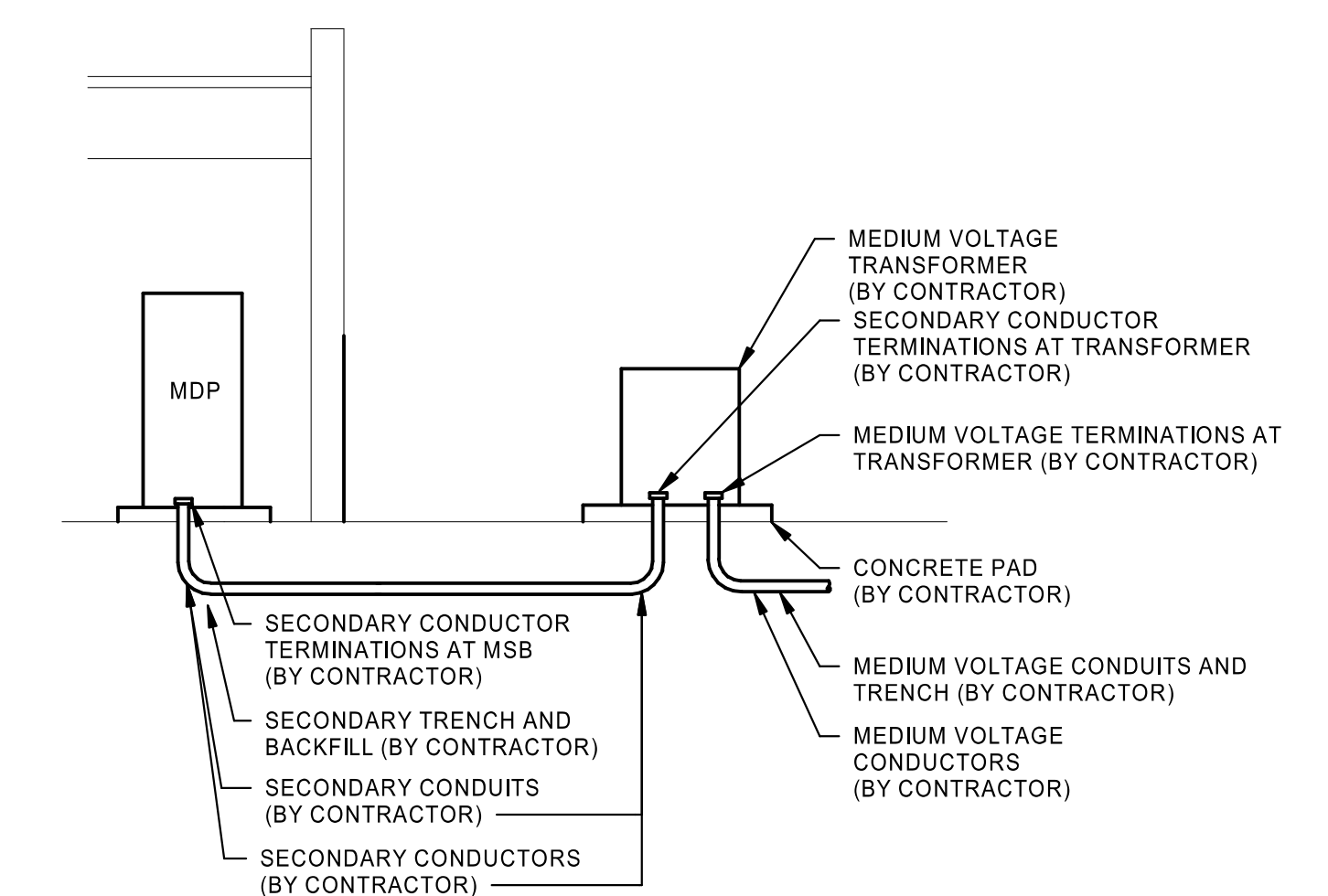
owner:
Lee's Summit R-7 School District
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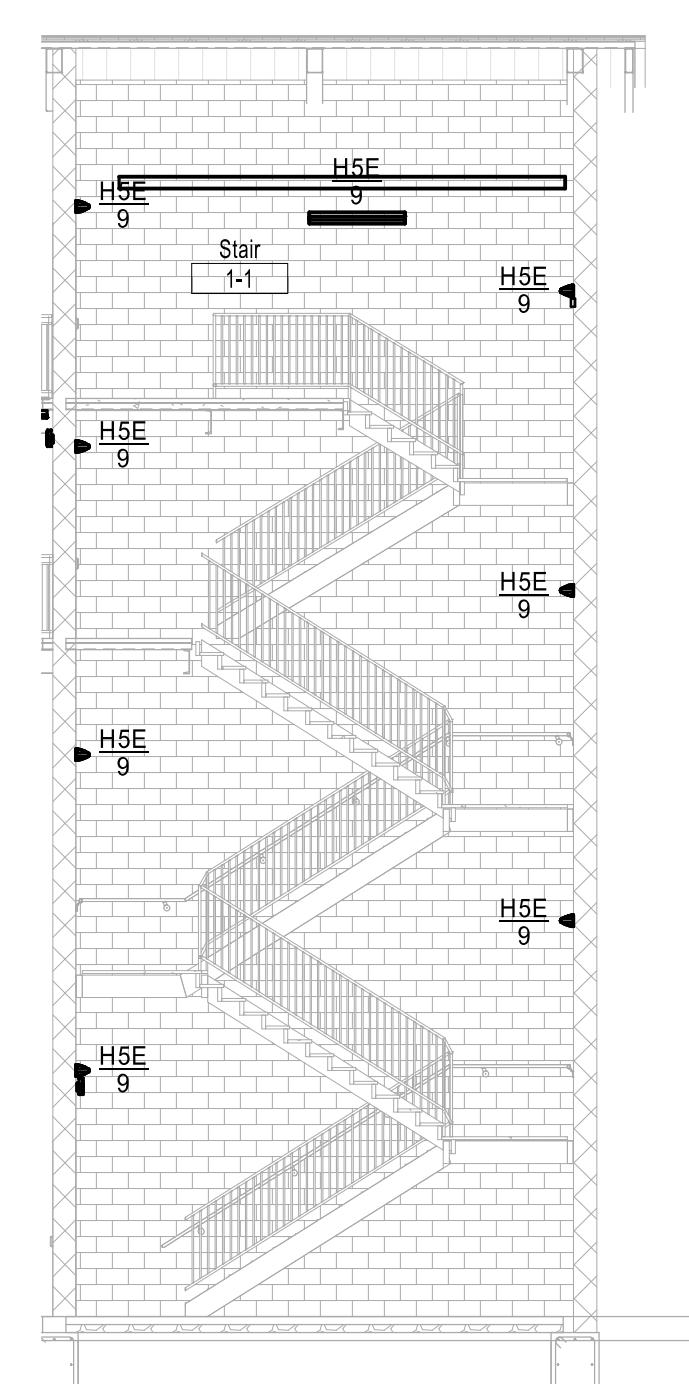
structural engineer:
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civil engineer:
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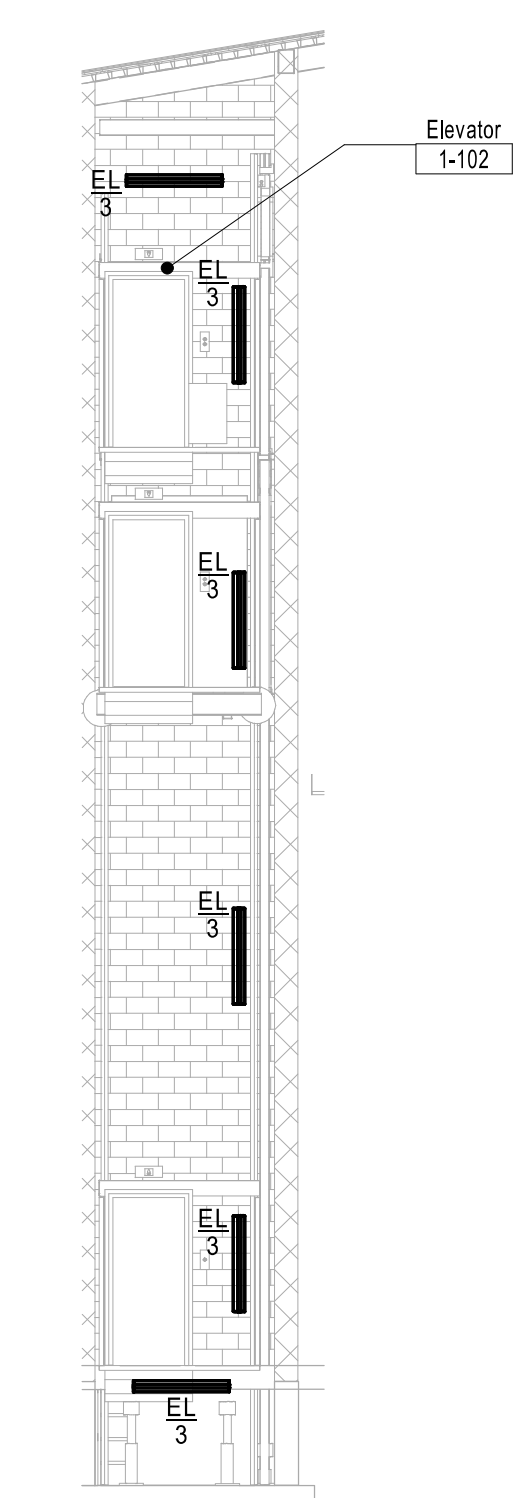
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① MEDIUM VOLTAGE COORDINATION DETAILS



③ STAIR LIGHTING
1/8" = 1'-0"



② ELEVATOR LIGHTING
1/8" = 1'-0"

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EXPIRES 12/31/2020



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REVISIONS

Number	DESCRIPTION	DATE
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PROJECT NO: 0119-0101
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ELECTRICAL DETAILS

H-E500

BID SET

Lee's Summit R7 District
Athletics Facilities

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PANELBOARD: HDHB (NEW)
BUS AMPS: 250A
MAIN SIZE/TYPE: 200A M.C.B.
VOLTS/PHASE: 480Y/277 V 3P/4W
SUPPLIED BY: MDP
FAULT CURRENT: REFER TO ONE-LINE DIAGRAM
AIC RATED: FULLY RATED
AIC RATING: FCA +10% MINIMUM
SERVES: HOME BOOTH
MOUNTING: SURFACE
LOCATION: Vestibule 1-101
EQUIPMENT GROUND BUS
LINE-SIDE LUGS: MECHANICAL
LOAD TYPE: CONNECTED LOAD, DEMAND FACTOR, NEC DEMAND, PANELBOARD NOTES, PANELBOARD TOTALS

PANELBOARD: HDC (NEW)
BUS AMPS: 250A
MAIN SIZE/TYPE: 200A M.C.B.
VOLTS/PHASE: 480Y/277 V 3P/4W
SUPPLIED BY: MDP
FAULT CURRENT: REFER TO ONE-LINE DIAGRAM
AIC RATED: FULLY RATED
AIC RATING: FCA +10% MINIMUM
SERVES: CONCESSIONS
MOUNTING: SURFACE
LOCATION: MEP 2-108
EQUIPMENT GROUND BUS
LINE-SIDE LUGS: MECHANICAL
LOAD TYPE: CONNECTED LOAD, DEMAND FACTOR, NEC DEMAND, PANELBOARD NOTES, PANELBOARD TOTALS

PANELBOARD: LDHB (NEW)
BUS AMPS: 225A
MAIN SIZE/TYPE: 225A M.C.B.
VOLTS/PHASE: 208Y/120 V 3P/4W
SUPPLIED BY: HDHB VIA TX-LDHB
FAULT CURRENT: REFER TO ONE-LINE DIAGRAM
AIC RATED: FULLY RATED
AIC RATING: FCA +10% MINIMUM
SERVES: HOME BOOTH
MOUNTING: SURFACE
LOCATION: Vestibule 1-101
EQUIPMENT GROUND BUS
LINE-SIDE LUGS: MECHANICAL
LOAD TYPE: CONNECTED LOAD, DEMAND FACTOR, NEC DEMAND, PANELBOARD NOTES, PANELBOARD TOTALS

PANELBOARD: LDC (NEW)
BUS AMPS: 225A
MAIN SIZE/TYPE: 150A M.C.B.
VOLTS/PHASE: 208Y/120 V 3P/4W
SUPPLIED BY: HDC VIA TX-LDC
FAULT CURRENT: REFER TO ONE-LINE DIAGRAM
AIC RATED: FULLY RATED
AIC RATING: FCA +10% MINIMUM
SERVES: CONCESSION
MOUNTING: SURFACE
LOCATION: MEP 2-108
EQUIPMENT GROUND BUS
LINE-SIDE LUGS: MECHANICAL
LOAD TYPE: CONNECTED LOAD, DEMAND FACTOR, NEC DEMAND, PANELBOARD NOTES, PANELBOARD TOTALS

PANELBOARD: LDV (NEW)
BUS AMPS: 100A
MAIN SIZE/TYPE: 100A M.C.B.
VOLTS/PHASE: 208Y/120 V 3P/4W
SUPPLIED BY: PRESS BOX VIA TX-LDV
FAULT CURRENT: REFER TO ONE-LINE DIAGRAM
AIC RATED: FULLY RATED
AIC RATING: FCA +10% MINIMUM
SERVES: TICKET BOOTH
MOUNTING: SURFACE
LOCATION: Visitor Ticket Booth 3-101
EQUIPMENT GROUND BUS
LINE-SIDE LUGS: MECHANICAL
LOAD TYPE: CONNECTED LOAD, DEMAND FACTOR, NEC DEMAND, PANELBOARD NOTES, PANELBOARD TOTALS

PANELBOARD LEGEND
ABBREVIATIONS V1.00
AF ARC FAULT CIRCUIT INTERRUPTER.
C# CIRCUIT VIA LIGHTING CONTACTOR #.
CL CIRCUIT VIA CURRENT LIMITING DEVICE.
D DISCONNECT CIRCUITRY FOR REMOVED LOAD. UPDATE CIRCUIT DIRECTORY TO SPARE AND TURN OFF.
EM EMERGENCY LIGHTING HANDLE-ON CLAMP.
EX EXISTING.
F FUTURE LOAD. NOTE AS SPARE AND TURN OFF.
FA RED/HANDLE-ON CLAMP.
GF GROUND-FAULT CIRCUIT INTERRUPTER TYPE CIRCUIT BREAKER (5 mA).
GPEP GROUND FAULT EQUIPMENT PROTECTION BREAKER (30 mA).
HT PROVIDE HANDLE-TIE FOR MULTI-WIRE BRANCH CIRCUIT PER CODE.
IG ISOLATED GROUND CIRCUIT.
L# LIGHTING CONTROL SCHEME NUMBER.
LCK HANDLE PADLOCKABLE-OFF DEVICE.
LO HANDLE-ON CLAMP.
N PROVIDE NEW CIRCUIT BREAKER.
OL REFER TO ELECTRICAL ONE-LINE/RISER DIAGRAM.
PS POWER-SWITCHING CIRCUIT BREAKER.
PSE EMERGENCY POWER-SWITCHING CIRCUIT BREAKER.
R REUSE EXISTING CIRCUIT BREAKER FOR NEW/REVISED LOAD.
RP CIRCUIT VIA RELAY PANEL.
ST SHUNT TRIP CIRCUIT BREAKER.
V VERIFY EXISTING LOAD AND UPDATE DIRECTORY, IF UNUSED, NOTE AS SPARE AND TURN OFF.
VD BRANCH CIRCUITRY HAS BEEN UPSIZED TO REDUCE VOLTAGE DROP. ADJUST GROUND WIRE SIZE PER CODE. PROVIDE LUG ADAPTORS IF REQUIRED.
Z CORRECT/REPAIR EXISTING HAZARD TO MAKE CODE COMPLIANT INSTALLATION.
NOT ALL ABBREVIATIONS ARE USED.

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MO. CORPORATE NO. E-5560
EXPIRES 12/31/2020

STATE OF MISSOURI
CURTIS A. OLDS
NUMBER PE-201803640
PROFESSIONAL ENGINEER
Sep 25 2020

REVISIONS
Number DESCRIPTION DATE

PROJECT NO: 0119-0101
DATE: September 28, 2020

ELECTRICAL SCHEDULES

H-E600

BID SET

Lee's Summit R7 District
Athletics Facilities

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400 SW Blue Parkway
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PANELBOARD: HDT (NEW)										EQUIPMENT GROUND BUS									
BUS AMPS: 125A MAIN SIZE/TYPE: 125A M.C.B. VOLTS/PHASE: 480Y/277 V 3P/4W SUPPLIED BY: MDP										FAULT CURRENT: REFER TO ONE-LINE DIAGRAM AIC RATED: FULLY RATED AIC RATING: FCA +10% MINIMUM SERVES: TENNIS MOUNTING: SURFACE LOCATION: MEP/Custodian 2-102									
CKT NO.	DESCRIPTION	LOAD TYPE	NOTES	WIRE SIZE	BKR AMP	P	PHASE			P	BKR AMP	WIRE SIZE	NOTES	LOAD TYPE	DESCRIPTION	CKT NO.			
							A	B	C										
1	PWR - UH TENNIS STORAGE 2-101	U		12	20	1	3000	564			1	20	12	L	LTS - RESTROOM BUILDING	2			
3	TX-LDT	R Z M		OL	70	3	2232	3000			1	20	12	L Z	EXTERIOR LIGHTING	4			
5											1	20	12	U	PWR - UH-1	6			
7											1	20	12	U	PWR - UH-2	8			
9											3	20	12	U	PWR - UH-5	10			
11	PWR - UH-3	U			12	20	3	2500	1667							12			
13																14			
15																16			
17	PWR - UH-4	U			12	20	3	1667	5000					U	WH1	18			
19																20			
21																22			
23	PWR - UH-6	U			12	20	3	2500	0							24			
25																26			
27	SPARE				20	1										28			
29	SPARE				20	1										30			
31	SPARE				20	1	0	0								32			
33	SPARE				20	1	0	0								34			
35	SPARE				20	1	0	0								36			
37	SPARE				20	1	0	0								38			
39	SPARE				20	1	0	0								40			
41	SPARE				20	1	0	0								42			
TOTAL LOAD (VA):							22129 VA	16539 VA	19015 VA										
TOTAL AMPS:							81 A	60 A	70 A										
LOAD TYPE	CONNECTED LOAD	DEMAND FACTOR	NEC DEMAND	PANELBOARD NOTES															
EXISTING LOAD (E)	0 VA	100%	0 VA																
COOLING (C)	0 VA	0%	0 VA																
HEATING (H)	0 VA	100%	0 VA																
LIGHTING (L)	1037 VA	125%	1296 VA																
RECEPTACLES (R)	1620 VA	100%	1620 VA																
MOTORS (M)	4776 VA	100%	4776 VA																
SUPPLEMENTAL HEAT (U)	49000 VA	100%	49000 VA																
MISC EQUIP (Z)	555 VA	100%	555 VA																
REFRIGERATION (F)	0 VA	100%	0 VA																
SIGN/DISPLAY (D)	0 VA	125%	0 VA																
KITCHEN (K)	0 VA	100%	0 VA																
LARGEST MOTOR	696 VA	125%	870 VA																
SHOW WINDOW (W)	0 VA	125%	0 VA																
TRACK LIGHTING	0 VA	100%	0 VA																
				PANELBOARD TOTALS															
				TOTAL CONNECTED LOAD												57684 VA			
				TOTAL NEC LOAD												58117 VA			
				TOTAL CONNECTED CURRENT												69 A			
				TOTAL NEC DEMAND CURRENT												70 A			

PANELBOARD: LDT (NEW)										EQUIPMENT GROUND BUS									
BUS AMPS: 225A MAIN SIZE/TYPE: 150A M.C.B. VOLTS/PHASE: 208Y/120 V 3P/4W SUPPLIED BY: HDT VIA TX-LDT										FAULT CURRENT: REFER TO ONE-LINE DIAGRAM AIC RATED: FULLY RATED AIC RATING: FCA +10% MINIMUM SERVES: TENNIS MOUNTING: SURFACE LOCATION: MEP/Custodian 2-102									
CKT NO.	DESCRIPTION	LOAD TYPE	NOTES	WIRE SIZE	BKR AMP	P	PHASE			P	BKR AMP	WIRE SIZE	NOTES	LOAD TYPE	DESCRIPTION	CKT NO.			
							A	B	C										
1	PWR - EF WOMENS RR 2-104	M		12	20	1	696	0			1	20		SPARE	2				
3	PWR - EF MENS RR 2-103	M		12	20	1		696	0		1	20		SPARE	4				
5	PWR - TF WOMENS RR	M		12	20	1			696	0	1	20		SPARE	6				
7	RCPT - 2-104 GENERAL	R		12	20	1	540	0			1	20		SPARE	8				
9	RCPT - 2-103 GENERAL	R		12	20	1		540	0		1	20		SPARE	10				
11	RCPT - 2-101/102 GENERAL	R		12	20	1			360	0	1	20		SPARE	12				
13	PWR - EF-1	M		12	15	1	696	0			1	20		SPARE	14				
15	PWR - EF-2	M		12	15	1		696	0		1	20		SPARE	16				
17	PWR - TF-1	M		12	15	1			696	0	1	20		SPARE	18				
19	PWR - TF-2	M		12	15	1	696	0			1	20		SPARE	20				
21	PWR - RECIRC PUMP	M		12	15	1		500	0		1	20		SPARE	22				
23	RCPT - 2-101 EXTERIOR	R		12	20	1			180	0	1	20		SPARE	24				
25	PWR - RR MOTORIZED DAMPERS	M		12	20	1	100	0			1	20		SPARE	26				
27	PWR - 2-102 DDC CONTROLS	Z		12	20	1		250	0		1	20		SPARE	28				
29	PWR - RR AUTO FAUCETS	Z		12	20	1			300	0	1	20		SPARE	30				
31	SPARE			20	1		0	0			1	20		SPARE	32				
33	SPARE			20	1		0	0			1	20		SPARE	34				
35	SPARE			20	1		0	0			1	20		SPARE	36				
37	SPARE			20	1		0	0			1	20		SPARE	38				
39	SPARE			20	1		0	0			1	20		SPARE	40				
41	SPARE			20	1		0	0			1	20		SPARE	42				
TOTAL LOAD (VA):							2728 VA	2682 VA	2232 VA										
TOTAL AMPS:							23 A	23 A	19 A										
LOAD TYPE	CONNECTED LOAD	DEMAND FACTOR	NEC DEMAND	PANELBOARD NOTES															
EXISTING LOAD (E)	0 VA	100%	0 VA																
COOLING (C)	0 VA	0%	0 VA																
HEATING (H)	0 VA	100%	0 VA																
LIGHTING (L)	0 VA	125%	0 VA																
RECEPTACLES (R)	1620 VA	100%	1620 VA																
MOTORS (M)	4776 VA	100%	4776 VA																
SUPPLEMENTAL HEAT (U)	0 VA	100%	0 VA																
MISC EQUIP (Z)	550 VA	100%	550 VA																
REFRIGERATION (F)	0 VA	100%	0 VA																
SIGN/DISPLAY (D)	0 VA	125%	0 VA																
KITCHEN (K)	0 VA	100%	0 VA																
LARGEST MOTOR	696 VA	125%	870 VA																
SHOW WINDOW (W)	0 VA	125%	0 VA																
TRACK LIGHTING	0 VA	100%	0 VA																
				PANELBOARD TOTALS															
				TOTAL CONNECTED LOAD												7642 VA			
				TOTAL NEC LOAD												7816 VA			
				TOTAL CONNECTED CURRENT												21 A			
				TOTAL NEC DEMAND CURRENT												22 A			



Sep 25 2020

REVISIONS		
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PROJECT NO: 0119-0101
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ELECTRICAL
SCHEDULES
H-E601
BID SET

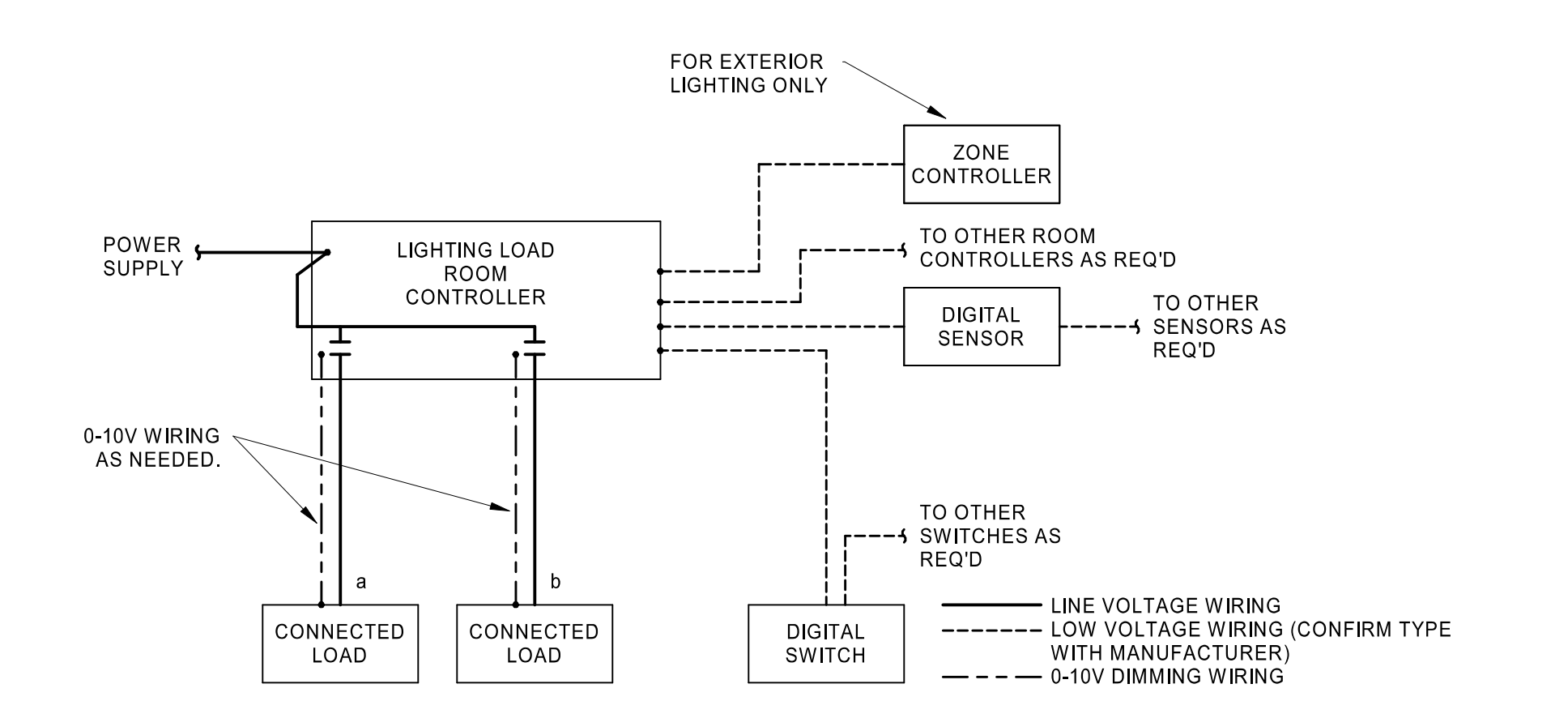
LIGHTING CONTROL DEVICE SCHEDULE

STAND-ALONE LOW-VOLTAGE LIGHTING CONTROL SYSTEMS					
STAND-ALONE LOW-VOLTAGE OCCUPANCY SENSORS					
SYMBOL TAG	MANUFACTURER MODEL/SERIES	ALTERNATE MANUFACTURER	DEVICE DESCRIPTION	COVERAGE (W X D)	VOLTAGE
□	LEGRAND DT-300	ACUITY, COOPER HUBBELL, LEVITON	CEILING MOUNT DUAL TECHNOLOGY OCCUPANCY SENSOR. 360 DEGREE COVERAGE. LOW VOLTAGE. ISOLATED RELAY.	PIR MAJOR 36" Ø PIR MINOR 25" Ø ULT 36" X 36"	24
□	LEGRAND CB-100	ACUITY, COOPER HUBBELL	CEILING/WALL MOUNT PASSIVE INFRARED OCCUPANCY SENSOR. 90 DEGREE COVERAGE. LOW VOLTAGE. GASKETED AND WATER/TIGHT. RATED FOR -40 DEGREES FAHRENHEIT.	MAJOR 57" Ø MINOR 25" Ø	24
STAND-ALONE LOW-VOLTAGE PHOTOELECTRIC SWITCHES					
SYMBOL TAG	MANUFACTURER MODEL/SERIES	ALTERNATE MANUFACTURER	DEVICE DESCRIPTION	VOLTAGE	NOTES
PC	LEGRAND EM-24D2	ACUITY, COOPER HUBBELL, LEVITON	EXTERIOR LOW-VOLTAGE PHOTOELECTRIC SWITCH. FACE SENSOR NORTH AND ORIENT VERTICALLY. 0-1 FC.	24	
STAND-ALONE LOW-VOLTAGE POWER PACKS					
SYMBOL TAG	MANUFACTURER MODEL/SERIES	ALTERNATE MANUFACTURER	DEVICE DESCRIPTION	VOLTAGE	NOTES
ⓑ	LEGRAND BZ-250	ACUITY, COOPER HUBBELL, LEVITON	POWER PACK FOR LOW VOLTAGE OCCUPANCY SENSORS. 20A LOAD. (1) RELAY. MANUAL- AND AUTO-ON MODES. HOLD-ON AND -OFF INPUTS. LOAD: 16A AT 120V OR 277V. OUTPUT: 225mA AT 24V. PLENUM RATED.	120V 277	
ⓑ	LEGRAND C SERIES	ACUITY, COOPER HUBBELL, LEVITON	POWER PACK FOR LOW VOLTAGE OCCUPANCY SENSORS. 20A LOAD. (2) RELAYS. MANUAL- AND AUTO-ON MODES. HOLD-ON AND -OFF INPUTS. LOAD: 16A AT 120V OR 277V. OUTPUT: 225mA AT 24V. PLENUM RATED.	120V 277	
D2C	LEGRAND LMFC-212	ACUITY, COOPER HUBBELL, LEVITON	ROOM CONTROLLER FOR LOW VOLTAGE OCCUPANCY SENSORS. 20A LOAD. (2) RELAY. MANUAL AND AUTO-ON MODES. HOLD-ON AND -OFF INPUTS. LOAD: 16A AT 120V OR 277V. OUTPUT: 225mA AT 24V. PLENUM RATED.	120V 277	
STAND-ALONE LOW-VOLTAGE SWITCHES					
SYMBOL TAG	MANUFACTURER MODEL/SERIES	ALTERNATE MANUFACTURER	DEVICE DESCRIPTION	VOLTAGE	NOTES
LV	LEGRAND DCC2	ACUITY, COOPER HUBBELL, LEVITON	MOMENTARY 1-BUTTON DECORATOR SWITCH FOR MANUAL ON/OFF CONTROL OF STAND-ALONE LOW-VOLTAGE OCCUPANCY SENSORS. INTEGRAL LED ILLUMINATES WHEN LOAD IS ON.	24	
LVD	LEGRAND LMSV-104	ACUITY, COOPER HUBBELL, LEVITON	4-BUTTON LOW VOLTAGE SWITCH FOR ON/OFF AND DIMMING CONTROL OF 2 RELAYS.	24	
AUXILIARY NETWORK LIGHTING EQUIPMENT					
SYMBOL TAG	MANUFACTURER MODEL/SERIES	ALTERNATE MANUFACTURER	DEVICE DESCRIPTION	VOLTAGE	NOTES
ZC	LEGRAND LMC2-301	ACUITY, CRESTRON ETC, HUBBELL	ZONE CONTROLLER, ASTRONOMIC TIMECLOCK, 99 LIGHTING GROUPS, BACNET MS/TP COMPATIBLE. (2) RJ45 PORTS. SURFACE MOUNTED. PLENUM RATED. PROVIDE DLM 24V POWER BOOSTERS AS REQUIRED PER SYSTEM DESIGN.	120V 277	

GENERAL NOTES:
 A. OCCUPANCY SENSOR LAYOUT DESIGNED FROM BASIS-OF-DESIGN COVERAGE PATTERNS. IF SUBMITTING ALTERNATE PER EQUIVALENT MANUFACTURER COLUMN, ADJUST SENSOR QUANTITIES AND LOCATIONS PER MANUFACTURER-SPECIFIC SPACING CRITERIA.
 B. PROVIDE SHOP DRAWINGS FOR ENGINEER AND ARCHITECT REVIEW THAT INCLUDE PRODUCT CUTSHEETS AND PROJECT-SPECIFIC LAYOUTS. LAYOUTS MUST INCLUDE SENSOR LOCATIONS, HEIGHTS, ORIENTATION, AND COVERAGE AREAS. SHOW COORDINATION WITH ALL OTHER CEILING DEVICES INCLUDING BUT NOT LIMITED TO HVAC SUPPLY AND RETURN GRILLES, SPRINKLERS, LIGHT FIXTURES, AND OTHER OWNER-PROVIDED CEILING MOUNTED DEVICES SUCH AS SPEAKERS, SECURITY CAMERAS, PROJECTORS, ETC. (SENSORS MAY BE ADVERSELY AFFECTED IF LOCATED TOO CLOSE TO OTHER CEILING MOUNTED DEVICES). ALSO PROVIDE SCHEMATICS AND SCHEDULES WHEN APPLICABLE.
 C. LIGHTING CONTROLS PRICING SHALL BE COMPLETELY SEPARATE OF ANY LIGHT FIXTURE PRICING.
 D. VERIFY COLOR(S) FOR ALL WALL AND CEILING MOUNTED DEVICES WITH THE ARCHITECT.
 E. ALL WALL SWITCH AND CEILING SENSORS SHALL HAVE AN ADJUSTABLE TIME DELAY RANGE OF 0-30 MIN. UNO. CONFIRM SENSOR SETTINGS WITH SEQUENCE OF OPERATIONS AND OWNER PRIOR TO SYSTEM COMMISSIONING.
 F. PROVIDE COPIES OF OPERATION AND MAINTENANCE INSTRUCTIONS FOR ALL DEVICES TO OWNER.
 G. PROVIDE A NEUTRAL CONDUCTOR TO ALL WALL SWITCH LOCATIONS PER NEC REQUIREMENTS.
 H. DO NOT SHARE NEUTRAL CONDUCTOR ON LOAD SIDE OF DIMMERS.

LIGHTING CONTROL SEQUENCE OF OPERATIONS:

- GENERAL NOTE: CONFIRM ALL SENSOR TIME DELAYS WITH OWNER PRIOR TO FINAL PROGRAMMING.
- GENERAL REQUIREMENTS**
 - Emergency Lighting: Emergency egress lighting is powered from emergency battery ballasts and drivers integral to fixtures designated as emergency. Upon loss of power, all lights designated as emergency shall turn on at full emergency battery back-up output.
 - Security Lighting: Night Lights, labeled "N" in building code for security purposes.
 - Lighting control type: Occupancy and Vacancy Sensors
 - Corridor, Cafeteria and Gymnasium occupancy sensors set to time out after 30 minutes
 - Offices and classrooms sensors set to time out after 20 minutes
 - Back of house room type sensors set to time out after 20 minutes
 - All lighting controls in project scope are stand-alone type.
 - POWER PACK BZ**
 - Manual Control: Occupant can manually control lights via local switch(es). At electrical equipment, keyed switch shall override occupancy sensor function and keep lights on during panel board maintenance.
 - Occupancy: Occupant must manually turn on lights.
 - Vacancy: After 20 minutes, all controlled loads shall turn off.
 - POWER PACK B1**
 - Manual Control: Occupant can manually control lights and exhaust fan together via local switch(es).
 - Occupancy: Occupant must manually turn on lights and exhaust fan.
 - Vacancy: After 20 minutes, all controlled loads shall turn off.
 - ROOM CONTROLLER D2C**
 - Manual Control: Occupant can manually control lights and dim via local switch(es). Switches shall dim in separate zones as designated as 'a', 'b' etc on plans.
 - Occupancy: Occupant must manually turn on lights.
 - Vacancy: After 20 minutes, all controlled loads shall turn off.
 - SIGNAGE LIGHTING**
 - Automatic Control: Fixtures illuminating signs and backlit signage shall be turned on via single photoac and turned off via astronomical timeclock. Route through BAS.
 - Coordinate additional programming requirements with owner.

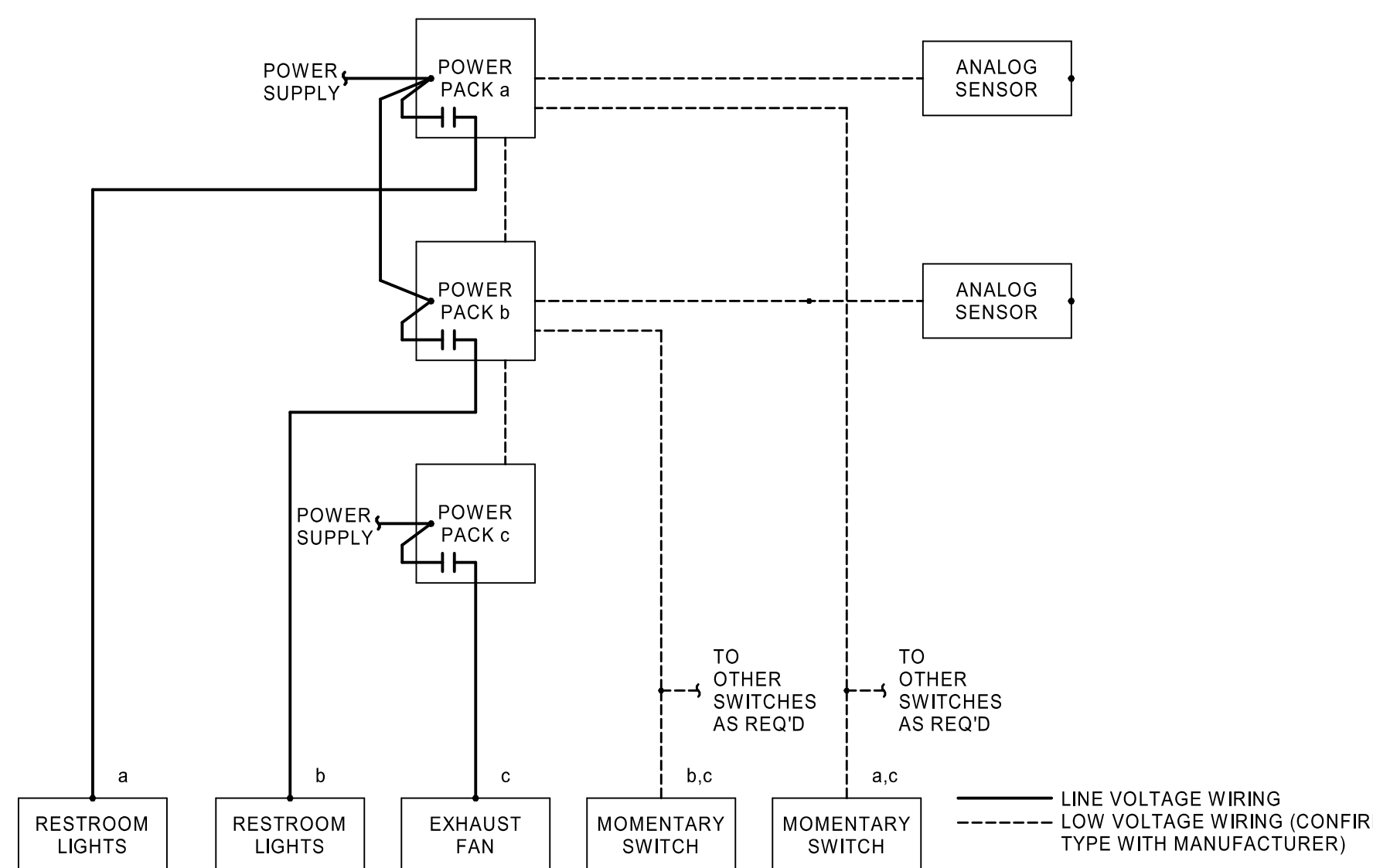


- NOTES:**
- REFER TO LIGHTING CONTROL DEVICE SCHEDULE FOR DEVICE AND EQUIPMENT SPECIFICATIONS.
 - QUANTITY OF RELAYS SHOWN IS GENERIC. REFER TO PLANS, LIGHTING CONTROL DEVICE SCHEDULE, AND SHOP DRAWINGS FOR FINAL QUANTITY PER ROOM CONTROLLER.
 - DETAIL IS DIAGRAMMATIC AND IS BASED ON LEGRAND. THIS REPRESENTS THE GENERAL SCOPE OF WORK AND LOCATION OF DEVICES IN RELATION TO EACH OTHER ALONG THE POWER CIRCUIT. DIAGRAMS MAY BE DIFFERENT FOR ALLOWED EQUIVALENT MANUFACTURERS. ELECTRICAL CONTRACTOR SHALL COORDINATE FULL SYSTEM REQUIREMENTS WITH SELECTED MANUFACTURER. PROVIDE ALL PARTS AND PIECES REQUIRED FOR A FULLY FUNCTIONAL SYSTEM. REFER TO FINAL APPROVED MANUFACTURER'S INSTALLATION INSTRUCTIONS AND WIRING DIAGRAMS FOR INSTALLATION.
 - CIRCUITING SHOWN ON THE PLAN CORRESPONDS TO THE LIGHTING CONTROL INTENT. IF CIRCUITING IS CHANGED IN THE FIELD, ENSURE THAT SYSTEM PROGRAMMING WITH REVISED CIRCUITING MEETS THE ORIGINAL LIGHTING CONTROL INTENT. UPDATE LIGHTING CONTROL PANEL SCHEDULES IN RECORD DRAWINGS.
 - PROVIDE SYSTEM COMMISSIONING AS REQUIRED PER ENERGY CODE.

④ ROOM CONTROLLER DETAIL - ON/OFF OR ON/OFF/0-10V DIMMING CONTROL NTS

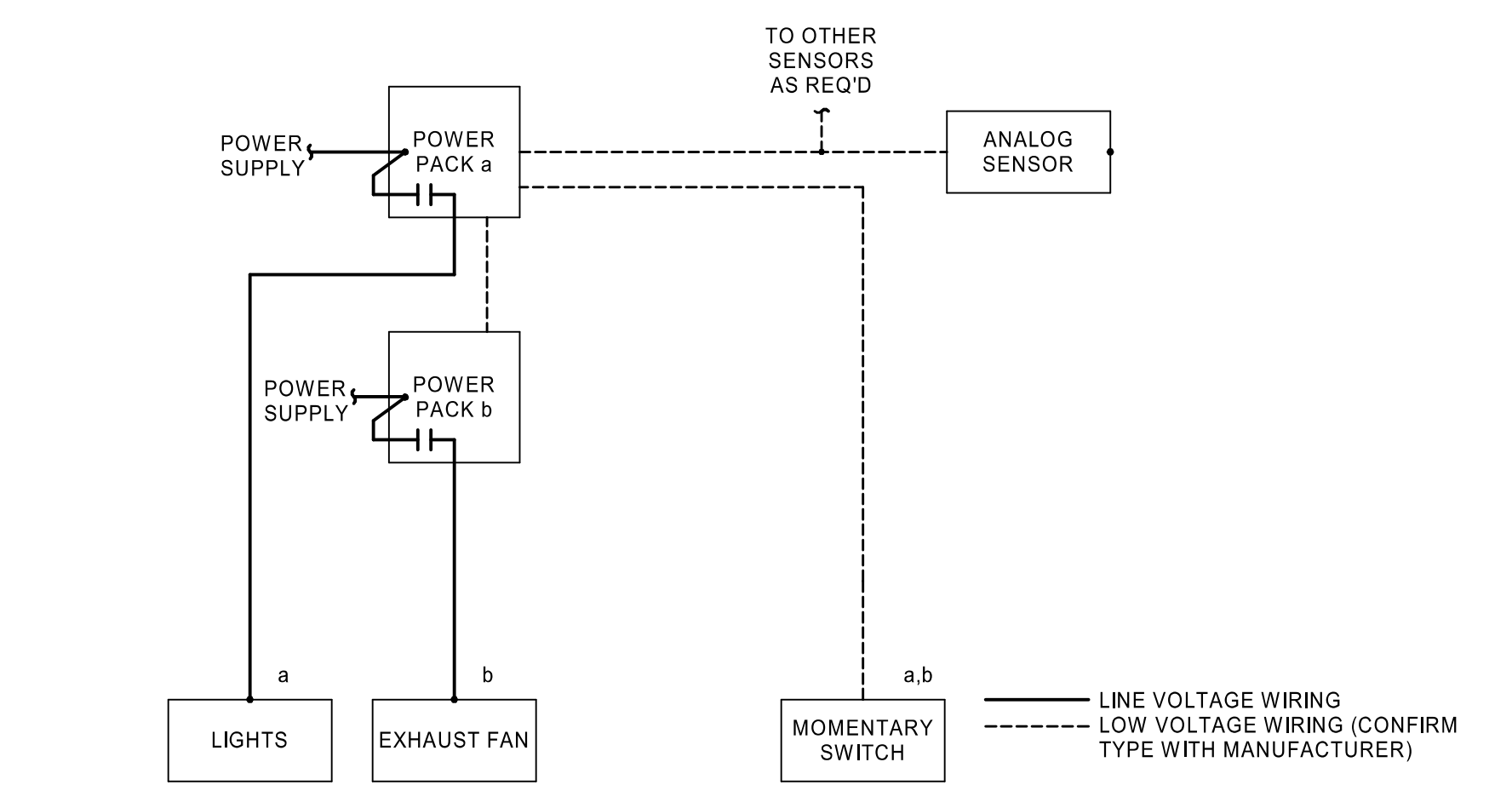
LIGHT FIXTURE SCHEDULE

TYPE	MANUFACTURER	MODEL	LAMPING / LIGHT SOURCE	TYPE	VOLTAGE	INPUT WATTS	INPUT VA	DESCRIPTION	NOTES
A4	HE WILLIAMS	50"CEILING-2-4-L33-80-35-AF12125-DIM-UNV	LED 3500K 80CRI	0-10V	UNV	25	28	2x4 RECESSED LED TROFFER. 3300 LUMEN	
A4E	HE WILLIAMS	50"CEILING-2-4-L33-80-35-AF12125-EM10W-DIM-UNV	LED 3500K 80CRI	0-10V	UNV	25	28	SAME AS A4 WITH INTEGRAL 10W BATTERY BACK UP TO OPERATE FOR A MINIMUM OF 90 MINUTES.	
DW1	COOPER LIGHTING	LSR2B-15-WFL55-80-35-D010-CANOPY	LED 3500K 80CRI	0-10V	UNV	18	20	4" SURFACE MOUNTED WET LOCATION LISTED DOWNLIGHT. 1500 LUMEN. 3500K. 54" BEAM.	
DW1E	COOPER LIGHTING	LSR2B-15-WFL55-80-35-D010-CANOPY EM DRIVER ASSURANCE EM LIGHTING L16-C	LED 3500K 80CRI	0-10V	UNV	18	20	SAME AS DW1 WITH INTEGRAL 7W BATTERY BACK UP TO OPERATE A MINIMUM OF 90 MINUTES	
EL	HE WILLIAMS	96-4-L62-80-35-HAFR-EM10W-WET1-DRV-UNV	LED 4000K 80CRI	0-10V	UNV	45	50	4" LINEAR FOR ELEVATOR SHAFT. WET LOCATION LISTED. 6200 LUMEN. 4000K	
F4S	FOCAL POINT	SEEM 4 FSMALS SERIES	LED 3500K 80CRI	0-10V	UNV	26	29	4' SUSPENDED LINEAR LED. 2810 LUMEN. BOTTOM OF FIXTURE TO BE 8'-4" AFF.	
G1	LUMENWERX	VIAWETASYS-PYC-HLO-LED-80-500-35-6-UNV-D1-1-GSM-TF-COLOR*	LED 3500K 80CRI	0-10V	UNV	30	33	6" RECESSED LINEAR WITH 500 LMFT AND ASYMMETRICAL DISTRIBUTION. SUITABLE FOR WET LOCATION.	
H4	HE WILLIAMS	75L-4-L50-8-35-AF12125-EM10WLP-DIM-UNV	LED 3500K 80CRI	0-10V	UNV	32	36	4" LINEAR SUSPENDED/WALL MOUNTED FIXTURE. 5000 LUMEN.	
H4E	HE WILLIAMS	75L-4-L50-8-35-AF12125-EM10WLP-DIM-UNV	LED 3500K 80CRI	0-10V	UNV	32	36	SAME AS H4 WITH INTEGRAL 10W BATTERY BACK UP TO OPERATE FOR A MINIMUM OF 90 MINUTES.	
H5E	HE WILLIAMS	75L-4-L50-8-35-AF12125-EM10WLP-DIM-UNV-OCV/S-FSP-211-L2-120/277	LED 3500K 80CRI	0-10V	UNV	32	36	SAME AS H4 WITH INTEGRAL OCCUPANCY SENSOR AND 10W BATTERY BACK UP TO OPERATE FOR A MINIMUM OF 90 MINUTES.	
HWE	HE WILLIAMS	VWP-4-L60-7-30-TFT-FINISH-SDGL-DIM-UNV-EM10WC VWP-4-L60-7-30-TFT-FINISH-SDGL-DIM-UNV-EM10WC VWP-4-L60-7-30-TFT-FINISH-SDGL-DIM-UNV-EM10WC	LED 3500K 80CRI	0-10V	UNV	70	77	WALL MOUNTED LED SCONCE. WET LOCATION LISTED. TFT DISTRIBUTION. 6000 LUMEN. INTEGRAL 10W BATTERY BACK UP TO OPERATE A MINIMUM OF 90 MINUTES. MOUNT 20'-0" AFF.	
L1	LUMINII	VWP-4-L60-7-30-TFT-FINISH-SDGL-DIM-UNV DRIVER-PS010V-96-24-LIN	LED 3500K 80CRI	0-10V	UNV	9	10	WET LOCATION RATED 24V LED TAPE LIGHT WITH REMOTE DAMP LOCATION RATED 96WATT, 277 - 24V LED DRIVER. NARROW DISTRIBUTION. 3500K. 706 LUMEN/FT. 9 W/FT. PROVIDE CHANNEL AND ADDITIONAL WET LOCATION RATED FITTINGS FOR A FULLY FUNCTIONING TAPE LIGHTING SYSTEM. PROVIDE LUMINII CLASS 2 0-10V DIMMING DRIVERS WITH 1 AND 3 OUTPUTS AS NEEDED.	
L2	LUMENPULSE	LOGASHREE-277-48-35K-WWRP-LMAS-DIM-ETE	LED 3500K 80CRI	0-10V	UNV	5	6	WET LOCATION RATED LINEAR GRADING FACADE FIXTURE WITH ASYMMETRICAL DISTRIBUTION AND ADJUSTABLE STANDOFF ARM MOUNT. 5W/FT. PROVIDE END-TO-END CONTINUOUS MOUNTING TO MATCH LENGTH OF SIGN.	
X	HE WILLIAMS	EXIT	LED	-	UNV	5	5	UNIVERSAL MOUNT LED EXIT SIGN. RED LETTERS.	
XW	HE WILLIAMS	EXIT/WET/ICP	LED	-	UNV	5	5	UNIVERSAL MOUNT LED EXIT SIGN. WET LOCATION LISTED. RED LETTERS.	
Y4	COOPER LIGHTING	4VRV73-G-UNV-L835-CD1	LED 3500K 80CRI	0-10V	UNV	44	49	4" VANDAL RESISTANT VAPORTITE LED. 5000 LUMEN. GENERAL DISTRIBUTION.	
Y4E	COOPER LIGHTING	4VRV73-G-UNV-L835-CD1	LED 3500K 80CRI	0-10V	UNV	44	49	SAME AS Y4 WITH INTEGRAL 10W BATTERY BACK UP TO OPERATE A MINIMUM OF 90 MINUTES.	



- NOTES:**
- REFER TO LIGHTING CONTROL DEVICE SCHEDULE FOR DEVICE AND EQUIPMENT SPECIFICATIONS.
 - PROVIDE QUANTITY OF POWER PACKS AS REQUIRED BY MANUFACTURER TO SUPPORT QUANTITY OF SENSORS INDICATED ON PLANS.
 - DETAIL IS DIAGRAMMATIC AND IS BASED ON WATTSTOPPER. THIS REPRESENTS THE GENERAL SCOPE OF WORK AND LOCATION OF DEVICES IN RELATION TO EACH OTHER ALONG THE POWER CIRCUIT. DIAGRAMS MAY BE DIFFERENT FOR ALLOWED EQUIVALENT MANUFACTURERS. ELECTRICAL CONTRACTOR SHALL COORDINATE FULL SYSTEM REQUIREMENTS WITH SELECTED MANUFACTURER. PROVIDE ALL PARTS AND PIECES REQUIRED FOR A FULLY FUNCTIONAL SYSTEM. REFER TO FINAL APPROVED MANUFACTURER'S INSTALLATION INSTRUCTIONS AND WIRING DIAGRAMS FOR INSTALLATION.
 - CIRCUITING SHOWN ON THE PLAN CORRESPONDS TO THE LIGHTING CONTROL INTENT. IF CIRCUITING IS CHANGED IN THE FIELD, ENSURE THAT SYSTEM PROGRAMMING WITH REVISED CIRCUITING MEETS THE ORIGINAL LIGHTING CONTROL INTENT. UPDATE LIGHTING CONTROL PANEL SCHEDULES IN RECORD DRAWINGS.
 - PROVIDE SYSTEM COMMISSIONING AS REQUIRED PER ENERGY CODE.

② OCCUPANCY SENSOR DETAIL - MULTIPLE POWER SUPPLIES AND SWITCHES NTS



- NOTES:**
- REFER TO LIGHTING CONTROL DEVICE SCHEDULE FOR DEVICE AND EQUIPMENT SPECIFICATIONS.
 - PROVIDE QUANTITY OF POWER PACKS AS REQUIRED BY MANUFACTURER TO SUPPORT QUANTITY OF SENSORS INDICATED ON PLANS.
 - DETAIL IS DIAGRAMMATIC AND IS BASED ON WATTSTOPPER. THIS REPRESENTS THE GENERAL SCOPE OF WORK AND LOCATION OF DEVICES IN RELATION TO EACH OTHER ALONG THE POWER CIRCUIT. DIAGRAMS MAY BE DIFFERENT FOR ALLOWED EQUIVALENT MANUFACTURERS. ELECTRICAL CONTRACTOR SHALL COORDINATE FULL SYSTEM REQUIREMENTS WITH SELECTED MANUFACTURER. PROVIDE ALL PARTS AND PIECES REQUIRED FOR A FULLY FUNCTIONAL SYSTEM. REFER TO FINAL APPROVED MANUFACTURER'S INSTALLATION INSTRUCTIONS AND WIRING DIAGRAMS FOR INSTALLATION.
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① OCCUPANCY SENSOR DETAIL - SINGLE POWER SUPPLY AND SWITCH NTS

LIGHT FIXTURE SCHEDULE GENERAL NOTES:

- ALL LIGHT FIXTURES AND RELATED COMPONENTS SHALL BE PROVIDED BY THE CONTRACTOR, UNLESS NOTED OTHERWISE.
- ALL LIGHT FIXTURES AND RELATED COMPONENTS SHALL BE PROVIDED BY THE CONTRACTOR AS PART OF THE BASE BID, UNLESS NOTED OTHERWISE. CONTRACTOR SHALL PROVIDE AN ALTERNATE BID FOR OWNER FURNISHED LIGHT FIXTURES.
- THE PARTY SUPPLYING THE LIGHT FIXTURES IS RESPONSIBLE FOR SUPPLYING THE PROPER QUANTITY OF LIGHT FIXTURES.

LIGHT FIXTURE SCHEDULE SUPPLEMENTAL SPECIFICATIONS:

- ANY PROPRIETARY, SOLE-SOURCED LIGHT FIXTURE LISTED IN THE LIGHT FIXTURE SCHEDULE SHALL BE UNIT PRICED ONLY. NO PACKAGING OR LOT PRICING OF THESE LIGHT FIXTURES SHALL BE ALLOWED. UNIT PRICES SHALL BE CLEARLY IDENTIFIED ON THE BID FORM.
- PACKAGING OF LIGHT FIXTURES WILL NOT BE CONSIDERED OR APPROVED. REPRESENTATIVE AGENTS SHALL BE ALLOWED TO OFFER MIN/LOT PRICING (M/LP) FOR LIGHT FIXTURES AS ALLOWED IN ELECTRICAL SPECIFICATIONS.
- LIGHTING CONTROLS PRICING, INCLUDING BUT NOT LIMITED TO THOSE REFERENCED IN ELECTRICAL SPECIFICATIONS, SHALL BE COMPLETELY SEPARATE OF ANY LIGHT FIXTURE PRICING. ANY LIGHTING CONTROLS PRICING THAT IS SUBMITTED WITH LIGHT FIXTURE PRICING (UNIT OR MIN/LOT) WILL BE IMMEDIATELY REJECTED IN ITS ENTIRETY.
- CATALOG NUMBERS SHALL NOT BE CONSIDERED COMPLETE AND MATERIAL SHALL NOT BE ORDERED BY MANUFACTURER AND CATALOG NUMBERS ONLY. FIRST READ THE COMPLETE DESCRIPTION, NOTES AND SPECIFICATIONS IN CONJUNCTION WITH THE CATALOG NUMBER TO DETERMINE THE MATERIAL AND ACCESSORIES TO BE ORDERED. THE MANUFACTURERS LISTED ARE THE BASIS FOR THE DESIGN.
- FOR SUBSTITUTIONS: PROVIDE PHOTOMETRIC CALCULATIONS AND OTHER NECESSARY INFORMATION FOR ENGINEER REVIEW. REFER TO SPECIFICATIONS FOR MORE INFORMATION.
- COORDINATE LIGHT FIXTURE MOUNTING HARDWARE AND TRIMS NEEDED TO SUIT CEILING CONDITIONS. LIGHT FIXTURES NEAR OR IN CONTACT WITH INSULATION SHALL COMPLY WITH CODE. MAINTAIN 3" MINIMUM WORKING CLEARANCE BETWEEN NON-IC RATED LIGHT FIXTURE HOUSINGS AND INSULATION ON ALL ADJACENT DUCTWORK, PIPING, WALLS, AND CEILINGS.
- STRIP LIGHT FIXTURES SUBJECT TO DAMAGE, INCLUDING THOSE MOUNTED ON EQUIPMENT MEZZANINES, STORAGE, RECEIVING AND STOCKROOM AREAS, SHALL BE PROVIDED WITH WIRE GUARDS, PROTECT-A-LAMP COVERS OR EQUIVALENT SHIELDED OR SHATTERPROOF LAMP GUARD SOURCES. COORDINATE REQUIREMENTS AND AFFECTED LIGHT FIXTURES WITH OWNER.

Lee's Summit R7 District Athletics Facilities

Lee's Summit High School
 400 SW Blue Parkway
 Lee's Summit, MO 64063

owner:
 Lee's Summit R7 School District
 301 NE Tudor Road
 Lee's Summit, MO 64086

architect:
 Gould Evans
 4200 Pennsylvania Avenue
 Kansas City, MO 64111
 816.931.6655 voice
 www.gould-evans.com

structural engineer:
 Bob D. Campbell & Company, Inc.
 4338 Bellevue Avenue
 Kansas City, MO 64111
 816.531.4144

civil engineer:
 Kaw Valley Engineering
 14700 West 124th Terrace
 Lenexa, KS 66215
 913.485.0318

mechanical/electrical engineer:
 Henderson Engineers
 8345 Lenexa Drive | Suite 300
 Lenexa, KS 66214
 913.742.5000

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 TEL 913.742.5000 FAX 913.742.5001
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Sep 25 2020

Number	DESCRIPTION	DATE
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PROJECT NO: 0119-0101
 DATE: September 28, 2020

Number	DESCRIPTION	DATE
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PROJECT NO: 0119-0101
 DATE: September 28, 2020

LIGHTING SCHEDULES

H-E700

BID SET

Lee's Summit R7 District
Athletics Facilities

Lee's Summit High School
400 SW Blue Parkway
Lee's Summit, MO 64063

owner:
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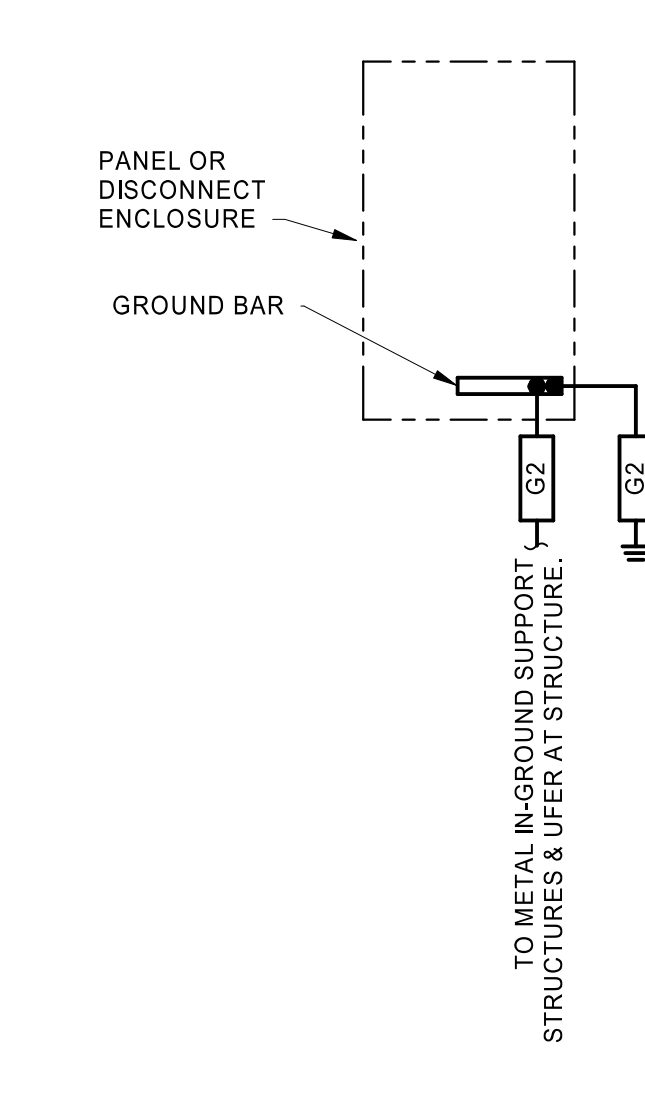
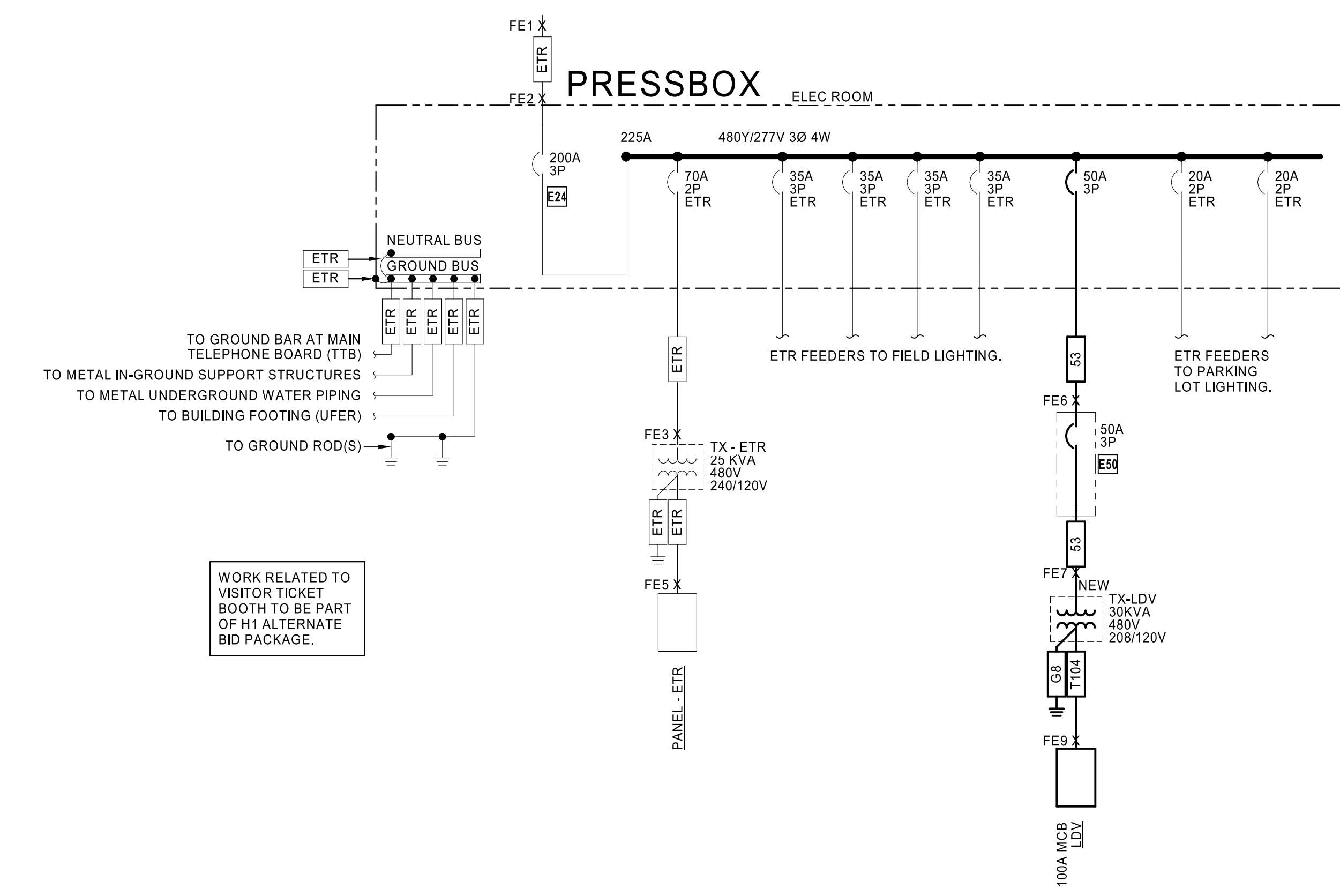
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Lenexa, KS 66215
913.485.0318

mechanical/electrical engineer:
Henderson Engineers
8345 Lenexa Drive | Suite 300
Lenexa, KS 66214
816.742.5000

- ONE-LINE DIAGRAM GENERAL NOTES:**
- REFER TO ONE-LINE DIAGRAM GENERAL NOTES ON SHEET H-E800.
 - REFER TO SHORT-CIRCUIT AND VOLTAGE DROP SCHEDULE ON SHEET H-E800 FOR SHORT CIRCUIT AND VOLTAGE DROP INFORMATION.
- ELECTRICAL PLAN NOTES:**
- E24 CONTRACTOR TO METER EXISTING LOADS FOR A MINIMUM OF 30 DAYS OF NORMAL USE PER NEC 220.87. STOP WORK AND NOTIFY THE ENGINEER IF THE METERED LOAD EXCEEDS 113 KW.
 - E50 PROVIDE GROUNDING AT EQUIPMENT PER DETAIL 1 ON SHEET H-E801.



1 PANEL GROUNDING DETAIL NTS

2 ELECTRICAL ONELINE - VISITOR'S PRESS BOX NTS

BUILDING LOAD SUMMARY (PRESS BOX)			
BUILDING OCCUPANCY TYPE: OFFICE BUILDING		SERVICE DESCRIPTION: 480Y/277 V	
BUILDING SQUARE FOOTAGE: 100			
LOAD TYPE	CONNECTED LOAD KVA	DEMAND FACTOR	NEC DEMAND KVA
EXISTING PEAK UTILITY (@ 0.9 pf)	N/A	125%	156.94
COOLING (C)	0.00	0%	0.00
HEATING (H)	0.00	100%	0.00
LIGHTING (L) (PER NEC-220)	0.08	125%	0.10
RECEPTACLES (R)	0.54	100%	0.54
MOTORS (M)	0.00	100%	0.00
SUPPLEMENTAL HEAT (U)	3.00	100%	3.00
MISC EQUIP (Z)	0.00	100%	0.00
REFRIGERATION (F)	0.00	100%	0.00
SIGN/DISPLAY (D)	0.00	125%	0.00
KITCHEN (K)	0.00	100%	0.00
LARGEST MOTOR	0.00	125%	0.00
SHOW WINDOW (W)	0.00	125%	0.00
TRACK LIGHTING	0.00	100%	0.00
EXISTING LOAD TO BE DELETED	0.00	100%	0.00
TOTAL LOAD	3.62	KVA	160.59
TOTAL AMPACITY	4.36	AMPS	193.16
SERVICE AMPACITY		AMPS	200.00
SPARE CAPACITY		AMPS	6.84
*PER UTILITY COMPANY BILLING PEAK DEMAND OF:			113.00 KW

FEEDER SCHEDULE:
SIZES ARE BASED ON COPPER (CU) THHN/THWN-2 INSULATION. UNO. NUMBER DESIGNATIONS PRECEDED BY "A" INDICATE THAT THE SIZE IS BASED ON ALUMINUM (AL) WIRE. AL CONDUCTOR SIZES ARE BASED ON XHHW-2 INSULATION. UNO. ALL CONDUCTOR SIZES ARE BASED ON 75 DEG C RATED TERMINATIONS. UNO. CONDUIT SIZES SHOWN ARE APPROPRIATE FOR SCHEDULE 40 PVC, EMT, GRS, IMC AND RMC. ADJUST SIZE AS NEEDED FOR OTHER RACEWAY TYPES. FOR ANY OTHER CONDITIONS MODIFY SIZES PER CODE. REFER TO SPECIFICATIONS FOR ADDITIONAL INFORMATION.

FEEDER TAG	FEEDER DESCRIPTION
33	(3)#10, (1)#10 G, 1/2" C
53	(3)#8, (1)#10 G, 3/4" C
72	(2)#4, (1)#8 G, 3/4" C
73	(3)#4, (1)#8 G, 1" C
124	(4)#1, (1)#8 G, 1-1/2" C
204	(4)#3/0, (1)#6 G, 2" C
AT104	(4)#1, (1)#6 SSB, 1-1/2" C
ETR	ETR
G2	#2 COPPER GROUND, 3/4" C
G4	#4 COPPER GROUND, 3/4" C
G6	#6 COPPER GROUND, 3/4" C
G8	#8 COPPER GROUND, 3/4" C
G20	#2/0 COPPER GROUND, 3/4" C
MV2/0	(3)#2/0 (15kV), (1)#4 (800V), 8" C
MV500	(3)-500kcmil (15kV), (1)#2/0 (800V), 6" C
S404	(2) 2" C, EACH W/ (4)#3/0
T104	(4)#3, (1)#8 SSB, 1-1/4" C
T123	(3)#1, (1)#8 SSB, 1-1/4" C
T154	(4)#1/0, (1)#6 SSB, 1-1/2" C

HENDERSON ENGINEERS
8345 LENEXA DRIVE, SUITE 300
LENEXA, KS 66214
TEL 913.742.5000 FAX 913.742.5001
WWW.HENDERSONENGINEERS.COM
#20000154
MO. CORPORATE NO. E-5560
EXPIRES 12/31/2020



Sep 25 2020

REVISIONS		
Number	DESCRIPTION	DATE

PROJECT NO: 0119-0101
DATE: September 28, 2020

ELECTRICAL ONE-LINE
DIAGRAM
H-E801
BID SET

TELECOMMUNICATIONS SYMBOLS

THIS IS A MASTER LEGEND AND NOT ALL SYMBOLS OR ABBREVIATIONS ARE USED.

STANDARD MOUNTING HEIGHTS

TELECOM BACKBOARD (BOTTOM OF BACKBOARD)	4"
LADDER RACK IN TELECOM ROOMS (BOTTOM OF DEVICE)	90"
CABLE TRAY / CONDUIT AFC (BOTTOM OF PATHWAY)	3'(MIN)
LIGHT FIXTURE IN TELECOM ROOMS (BOTTOM OF DEVICE)	108'(MIN)
TELEPHONE WALL OUTLET (CENTERLINE)	48"
DATA WALL OUTLET	SAME AS ADJACENT DEVICE, UNO
TELEVISION OUTLET	REFER TO ARCH DRAWINGS
TMGB/TGB (CENTERLINE)	84"
WALL CLOCK (CENTERLINE)	94"
INTERCOM (CENTERLINE)	48"

USE THE DEFAULT MOUNTING HEIGHTS SHOWN ABOVE UNO IN THE CONSTRUCTION DOCUMENTS. MOUNTING HEIGHTS LISTED ARE ABOVE FINISHED FLOOR (AFF) OR ABOVE FINISHED GRADE (AFG) TO BOTTOM OF OUTLET BOX. ALL DEVICES SHALL BE INSTALLED IN COMPLIANCE WITH CURRENT ADA AND LOCAL REQUIREMENTS.

ABBREVIATIONS

A AMPERES	LAN LOCAL AREA NETWORK
ADA AMERICANS WITH DISABILITIES ACT	LCC LIMITED COMBUSTIBLE CABLE
AFC ABOVE FINISHED CEILING	LEC TO BE DETERMINED
AFB ABOVE FINISHED FLOOR	LED LIGHT-EMITTING DIODE
AFG ABOVE FINISHED GRADE	LF LINEAR FEET
AHJ AUTHORITY HAVING JURISDICTION	MAN METROPOLITAN AREA NETWORK
ANSI AMERICAN NATIONAL STANDARDS INSTITUTE	MC MAIN CROSS-CONNECT
AP ACCESS POINT	MD MAIN DISTRIBUTION FRAME
AV AUDIO/VIDEO	MFR MANUFACTURER
AWG AMERICAN WIRE GAUGE	MH MAINTENANCE HOLE
BAS BUILDING AUTOMATION SYSTEM	MM MULTIMODE
BD BUILDING DISTRIBUTOR	MPOE MAIN POINT OF ENTRANCE
BDF BUILDING DISTRIBUTION FRAME	MTP MAIN POINT OF PRESENCE
BFC BELOW FINISHED CEILING	MTD MOUNTED
C CONDUIT	N/A NOT APPLICABLE
CAT CATEGORY	NEC NATIONAL ELECTRICAL CODE
CATV COMMUNITY ANTENNA TELEVISION	NFPA NATIONAL FIRE PROTECTION ASSOCIATION
CCTV CLOSED CIRCUIT TELEVISION	NIC NOT IN CONTRACT
CD CAMPUS DISTRIBUTOR	NM NANOMETER
CMP COMMUNICATIONS PLENUM JACKET	NRTL NATIONALLY RECOGNIZED TESTING LAB
CMR COMMUNICATIONS RISER JACKET	OC ON CENTER
DAS DISTRIBUTED ANTENNA SYSTEM	OSHA OCCUPATIONAL SAFETY AND HEALTH ADMINISTRATION
dB DECIBELS	OSP OUTSIDE PLANT
DEMO DEMOLITION	PBX PRIVATE BRANCH EXCHANGE
EC ELECTRICAL CONTRACTOR	POE POWER OVER ETHERNET
ECIA ELECTRONIC COMPONENTS INDUSTRY ASSOCIATION	POW PASSIVE OPTICAL NETWORK
EMIELECTROMAGNETIC INTERFERENCE	POTS PLAIN OLD TELEPHONE SERVICE
EMS ENERGY MANAGEMENT SYSTEM	PSSTN PUBLIC SWITCHED TELEPHONE NETWORK
EMT ELECTRICAL METALLIC TUBING	QTY QUANTITY
ER EQUIPMENT ROOM	RCDD REGISTERED COMMUNICATIONS DISTRIBUTION DESIGNER
ETR EXISTING TO REMAIN	RMC RIGID METAL CONDUIT
FAAP FIRE ALARM ANNUNCIATOR PANEL	RU RACK UNIT
FACP FIRE ALARM CONTROL PANEL	SCS STRUCTURED CABLING SYSTEM
FD FLOOR DISTRIBUTOR	SF SQUARE FEET
FMC FLEXIBLE METAL CONDUIT	SM SINGLEMODE
FS FIRE STOP SYSTEM	SPECS SPECIFICATIONS
FLR FLOOR	TB TELECOMMUNICATIONS BONDING BACKBONE
F/UTP SHIELDED PAIR	TBD TO BE DETERMINED
GC GENERAL CONTRACTOR	TIA TELECOMMUNICATIONS INDUSTRY ASSOCIATION
GE GROUNDING EQUALIZER	TGB TELECOMMUNICATIONS GROUND BUS BAR
GYP GYPSUM BOARD	TMGB TELECOMMUNICATIONS MAIN GROUND BUS BAR
HC HORIZONTAL CROSS-CONNECT	TR TELECOMMUNICATIONS ROOM
HCM HORIZONTAL CABLE MANAGER	TYP TYPICAL
HH HAND HOLE	UNO UNLESS NOTED OTHERWISE
HZ HERTZ	UL UNDERWRITER LABORATORIES, INC.
MC/INTERMEDIATE METAL CONDUIT	UPS UNINTERRUPTIBLE POWER SUPPLY
IP INTERNET PROTOCOL	U/UTP UNSHIELDED TWISTED PAIR
ISP INTERNET SERVICE PROVIDER	V VOLTS
ISP INSIDE PLANT CABLE	VCM VERTICAL CABLE MANAGER
JB JUNCTION BOX	W WIRE
J-BOX JUNCTION BOX	WAN WIDE AREA NETWORK
	WAO WORK AREA OUTLET
	WAP WIRELESS ACCESS POINT
	WP WEATHER PROOF
	WR WEATHER RESISTANT
	WT WATERTIGHT
	XP EXPLOSION-PROOF

ANNOTATION

	TECHNOLOGY PLAN CALLOUT
	EQUIPMENT DESIGNATION (OWNER FURNISHED, CONTRACTOR INSTALLED)
	CONNECTION POINT OF NEW WORK TO EXISTING
	DETAIL REFERENCE UPPER NUMBER INDICATES DETAIL NUMBER, LOWER NUMBER INDICATES SHEET NUMBER
	SECTION CUT DESIGNATION

LINETYPE LEGEND

THROUGHOUT THE DRAWINGS DIFFERENT LINE-TYPES ARE USED IN COMBINATION WITH THE SYMBOLS TO INDICATE THE STATUS OF ITEMS AS EXISTING, TO BE DEMOLISHED, TO BE INCLUDED AS PART OF THE NEW WORK AND/OR ITEMS WHICH ARE ANTICIPATED TO BE PROVIDED IN THE FUTURE. THE STATUS OF ITEMS USING THESE LINETYPES ARE RELATIVE TO THE VIEW IN WHICH THEY APPEAR. PHASING SHOWN IN DRAWINGS IS NOT INTENDED TO FULLY DESCRIBE ALL NECESSARY CONSTRUCTION PHASING, WHICH IS DETERMINED BY THE CONTRACTOR AS PART OF THEIR RESPONSIBILITIES. ANY SUCH PHASES DESCRIBED IN THE CONSTRUCTION DOCUMENTS ARE GENERAL AND ONLY INTENDED TO INDICATE A BROAD ORDER FOR THE SAKE OF DESCRIBING THE PROJECT. THE FOLLOWING LINETYPES MAY BE USED ON ANY DEVICE, EQUIPMENT, NOTE, LINE, SHAPE, ETC.

EXISTING	NEW
DEMOLISH	FUTURE

PATHWAYS

	WIRE MESH CABLE TRAY (W=WIDTH, "H"=HEIGHT)
	VERTICAL CABLE TRAY
	UNDERGROUND CONDUIT ("N"=QUANTITY, "D"=CONDUIT DIAMETER)
	CONDUIT ("N"=QUANTITY, "D"=CONDUIT DIAMETER)
	CABLE SUPPORTS OR J-HOOKS
	CONDUIT SLEEVE ("N"=QUANTITY, "D"=CONDUIT DIAMETER)
	UL FIRESTOP SYSTEM ASSEMBLY
	PULL BOX ("L"=LENGTH, "W"=WIDTH, "H"=HEIGHT)
	SPLICE

RISER DIAGRAMS

	FIBER OPTIC CROSS CONNECT - DETAIL 5H-TN500
	COPPER UTP CROSS CONNECT
	110-TYPE PROTECTOR BLOCK
	PATCH PANEL - DETAIL 7H-TN500
	TELECOM GROUND BAR (TGB) - DETAIL 9H-TN500
	TELECOM MAIN GROUND BAR (TMGB)
	TELECOMMUNICATIONS BACKBONE CABLING (REFER TO RISER DIAGRAM FOR MORE INFORMATION)

TELECOMMUNICATIONS ROOM

	LADDER RACK
	TELECOM MAIN GROUND BAR (TMGB) - WALL ELEVATION VIEW
	TELECOM GROUND BAR (TGB) - WALL ELEVATION VIEW
	TMGB/TGB - PLAN VIEW
	TELECOM BACKBOARD
	TWO-POST EQUIPMENT RACK
	FOUR-POST EQUIPMENT RACK
	EQUIPMENT CABINET (REFER TO PLAN NOTES ON ENLARGED PLANS FOR MORE INFORMATION)

TELECOMMUNICATIONS OUTLETS

SYMBOL	DESCRIPTION	CABLE(S)	DETAIL
	ELEVATOR PHONE OUTLET - ANALOG	1	8H-TN500
	DATA WALL OUTLET - DISPLAY	1	2,4,6H-TN500
	DATA WALL OUTLET	2	2,4,6H-TN500
	DATA CEILING OUTLET - WIRELESS ACCESS POINT	1	3,4H-TN500
	DATA CEILING OUTLET - PROJECTOR	1	3,4H-TN500

TELECOMMUNICATIONS RESPONSIBILITY MATRIX

Description	Furnish		Install		Comments
	Construction Team	Owner	Construction Team	Owner	
General Communications					
Grounding and Bonding	X		X		
Hangers and Supports	X		X		
Conduits and Backboxes	X		X		
Underground pathways for utility entrance and floor boxes	X		X		
Firestops, Conduit Sleeves, and Sleeve Seals	X		X		
Structured Cabling					
Telecom Room Cabinets, Racks, Frames, and Enclosures	X		X		
Telecom Room Buildout (ex. backboard and ladder rack)	X		X		
Optical Fiber Backbone Cable and Connectivity	X		X		
Copper Backbone Cable and Connectivity	X		X		
Copper Horizontal Cable and Connectivity	X		X		
Data Communications					
Router / Firewall		X		X	
Core Switch / Edge Switch		X		X	
Wireless Access Points		X		X	
Servers / Storage and Backup		X		X	
Laptops / Desktops / Copiers / Printers / Scanners		X		X	
Software		X		X	
Voice Communications					
VoIP Gateway / Analog handsets		X		X	
VoIP handset wall mount kit		X		X	
VoIP handsets		X		X	
VoIP Network licensing		X		X	

GENERAL NEW WORK NOTES

1. READ THE SPECIFICATIONS AND REVIEW DRAWINGS OF ALL DIVISIONS OF WORK. COORDINATE THIS WORK WITH ALL OTHER DIVISIONS OF WORK AND ALL SUBCONTRACTORS.
2. ALL WORK SHALL CONFORM TO THE APPLICABLE SPECIFICATIONS (DIVISION 26, DIVISION 27, DIVISION 28, ETC.) AND THE CUSTOMER PRE-ESTABLISHED STRUCTURED CABLING STANDARDS. SHOULD DIFFERENCES EXIST IN THE SPECIFICATIONS RELATING TO TECHNOLOGY AND THE CLIENT'S PRE-ESTABLISHED STANDARDS THE CONTRACTOR SHALL CONTACT THE LOW VOLTAGE ENGINEER FOR CLARIFICATION THROUGH THE RFI PROCESS.
3. FULLY COORDINATE ALL CABLE TRAY, FIRE STOP CONDUITS / SLEEVES, AND CONDUIT ROUTING WITH STRUCTURAL ELEMENTS. COORDINATE CABLE TRAY AND CONDUIT INSTALLATIONS WITH ARCHITECT, STRUCTURAL ENGINEER, STRUCTURAL CONTRACTOR, AND GENERAL CONTRACTOR PRIOR TO INSTALLATION. ROUTING IN CONCRETE SLAB OR UNDER SLAB (WHERE CONDUIT WOULD BE ON GRADE) REQUIRES THE USE OF WET LOCATION RATED CABLES.
4. ALL TELECOMMUNICATIONS CONTINUOUS PATHWAYS SHALL BE BONDED TO THE TELECOMMUNICATIONS BONDING BACKBONE. FOR CONDUITS INSULATION BUSHINGS SHALL BE USED AT THE END OF THE CONDUIT THE FARTHEST AWAY FROM THE SERVING TR. A BONDING BUSHING SHALL BE USED AT THE END CLOSEST TO THE SERVING TR. CONTRACTOR TO REFER TO THE ANSI-STD-J 607 STANDARD FOR ADDITIONAL INFORMATION AS TO THE INSTALLATION OF THE TELECOMMUNICATIONS BONDING BACKBONE.
5. ALL FIRE RATED WALL / FLOOR ASSEMBLIES PENETRATED FOR TELECOMMUNICATIONS CABLING PATHWAYS SHALL BE FIRE STOPPED WITH THE APPROVED FIRE STOP SYSTEMS (FIS). ALL FIRESTOP SYSTEMS SHALL BE INSTALLED AS DIRECTED BY THE MANUFACTURER AND AS SPECIFIED IN DIVISION 07 97 84 00 - "FIRESTOPPING". FIRE STOP ASSEMBLY LOCATIONS ARE TO BE COORDINATED WITH CABLE TRAY PATHWAY TO TELECOMMUNICATIONS ROOM.
6. BACK BOXES AND CONDUIT LOCATIONS IN PRECAST CONCRETE WALLS SHALL BE COORDINATED WITH ARCHITECT, STRUCTURAL ENGINEER, AND GC PRIOR TO ORDERING THE PRECAST WALLS.
7. ROUTING OF CABLES SHALL BE CONCEALED. CABLES SHALL BE ROUTED IN CONDUIT IN EXPOSED AREAS. MINIMIZE AMOUNT OF EXPOSED CONDUIT BY EMBEDDING CONDUIT IN SLAB WHEN POSSIBLE. EMBEDDED CONDUITS AND PENETRATIONS OF STRUCTURE SHALL FOLLOW DETAILS IN STRUCTURAL DRAWINGS. WHEN CONDUITS CAN ONLY BE INSTALLED EXPOSED, NOTIFY ARCHITECT PRIOR TO START OF INSTALLATION OF CONDUITS. CABLES SHALL BE ROUTED IN CONDUIT WHEN ABOVE HARD CEILING. CONDUITS FOR ELEVATOR PHONES AND FIRE ALARM CONTROL PANEL SHALL BE CONTINUOUS (HOMERUN) FROM THE TELECOMMUNICATIONS ROOM TO THE APPLICABLE BOX / CABINET. CONTRACTOR SHALL SIZE AND PROVIDE CONDUITS TO MEET TIA-569.
8. TELECOMMUNICATIONS ROOMS SHALL BE DEDICATED FOR INFORMATION TECHNOLOGY USE (I.E. NO SHARED SPACE WITH A JANITOR, FIRE ALARM SYSTEM, ETC.) NO SERVICES SHALL PASS THROUGH THE SPACE UNLESS DEDICATED TO THE SPACE (NO PLUMBING, MECHANICAL, ELECTRICAL, FIRE, ETC.)

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www.goulddevans.com

structural engineer:
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MO. CORPORATE NO. E-5560
EXPIRES 12/31/2020

REVISIONS

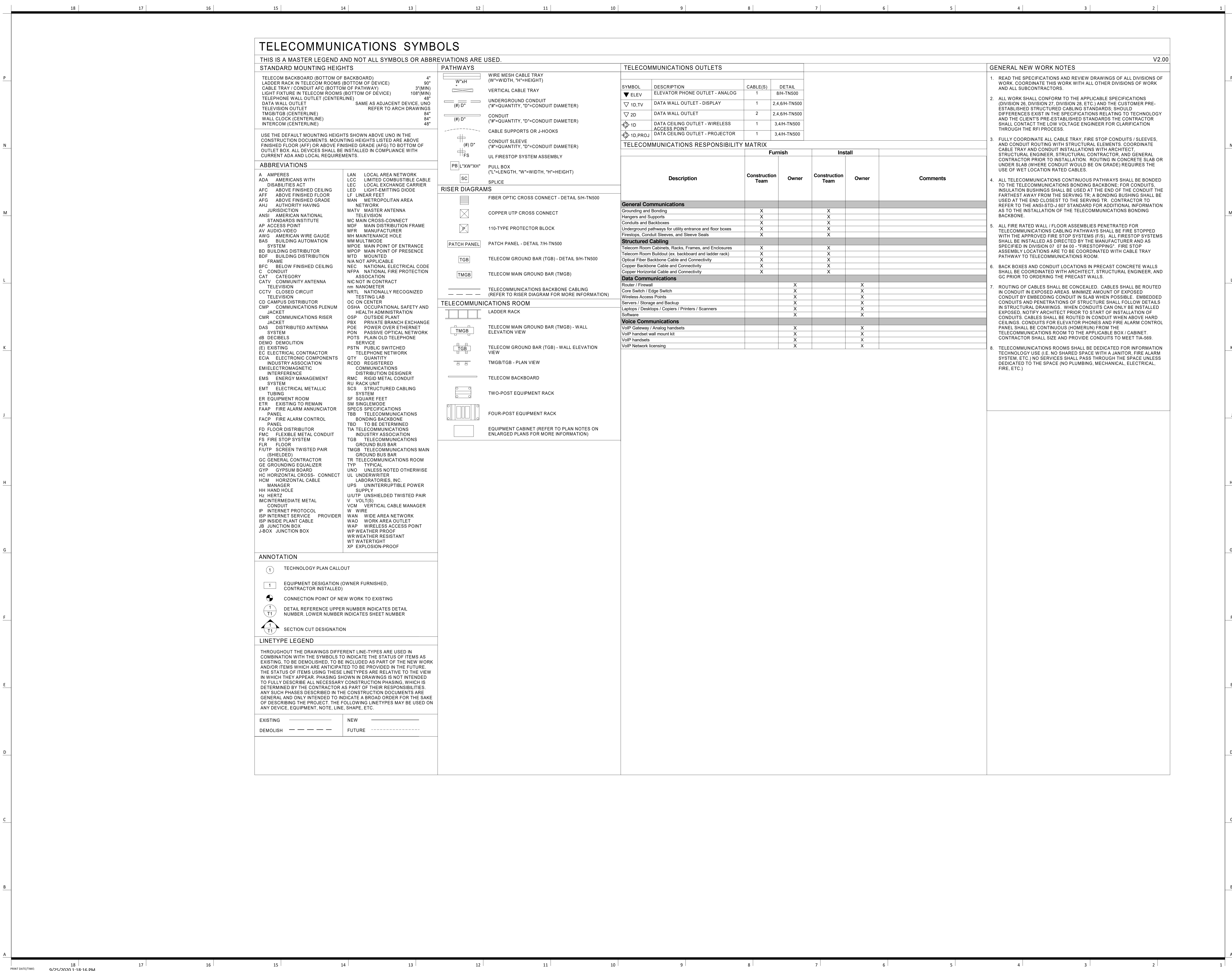
Number	DESCRIPTION	DATE
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PROJECT NO: 0119-0101
DATE: September 28, 2020

TECHNOLOGY GENERAL NOTES AND LEGEND

H-TN000

BID SET



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MO. CORPORATE NO. E-556D
EXPIRES 12/31/2020

REVISIONS

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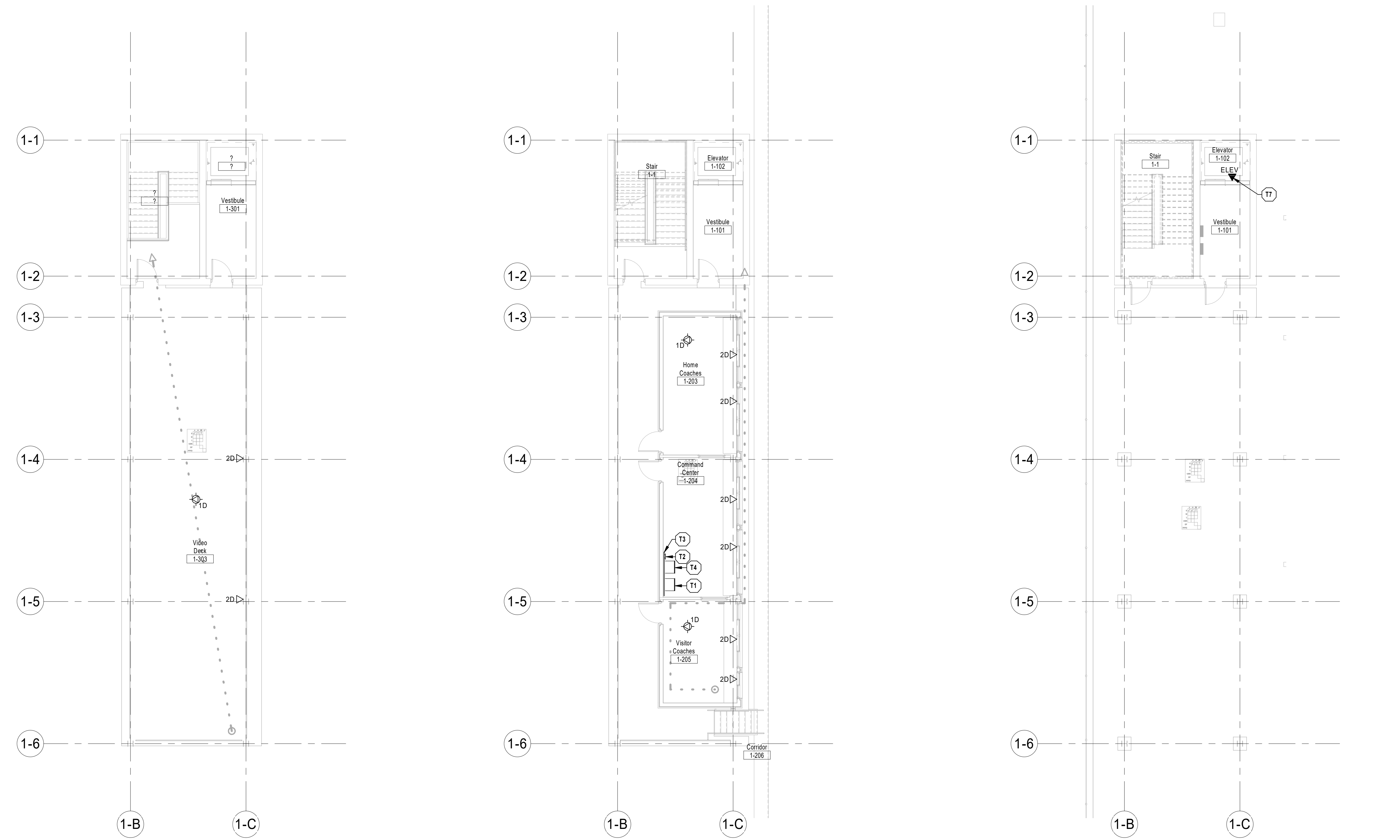
HOME PRESS BOX -
TECHNOLOGY PLANS

H-TN111

BID SET

TECHNOLOGY PLAN NOTES:

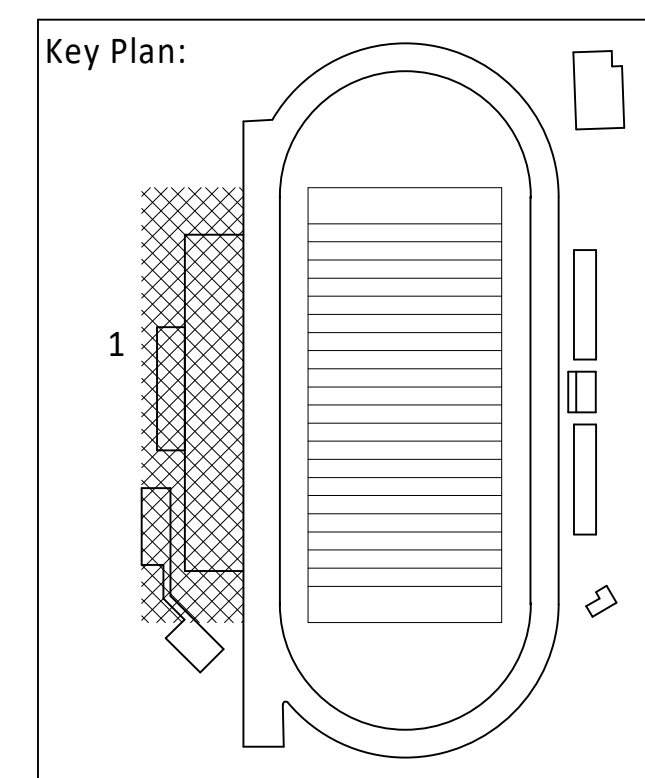
- T1 AV RACK TO BE PROVIDED BY OTHERS.
- T2 PROVIDE TELECOMMUNICATIONS GROUNDING BUS BAR (TGB) MOUNTED AT 7'-0" AFF. SEE DIVISION 27 SPECIFICATIONS FOR ADDITIONAL INFORMATION.
- T3 PROVIDE TELECOMMUNICATIONS BACKBOARD, GRADE A/C 3/4" FIRE RATED PLYWOOD BACKBOARD (UNPAINTED) STARTING AT 4" AFF AND EXTEND UPWARDS 8'-0" ON ALL WALLS AS INDICATED ON DRAWINGS. THE A SIDE SHALL BE EXPOSED TO THE INTERIOR OF THE ROOM AND THE C SIDE PLACED AGAINST THE BUILDING STRUCTURE. SEE DIVISION 27 SPECIFICATIONS FOR ADDITIONAL INFORMATION.
- T4 WALL MOUNTED DATA RACK. PROVIDE OPTICAL FIBER PANEL AND PATCH PANELS AS REQUIRED TO SUPPORT DATA OUTLETS PER DIVISION 27 SPECIFICATIONS. INSTALL OWNER FURNISHED EQUIPMENT IN RACK PER MANUFACTURER'S RECOMMENDATIONS.
- T7 ELEVATOR PHONE OUTLET. COORDINATE EXACT REQUIREMENTS WITH ELEVATOR PROVIDER.



③ HOME PRESS BOX - LEVEL 3 TECHNOLOGY PLAN
1/8" = 1'-0"

② HOME PRESS BOX - LEVEL 2 TECHNOLOGY PLAN
1/8" = 1'-0"

① HOME PRESS BOX - LEVEL 1 TECHNOLOGY PLAN
1/8" = 1'-0"



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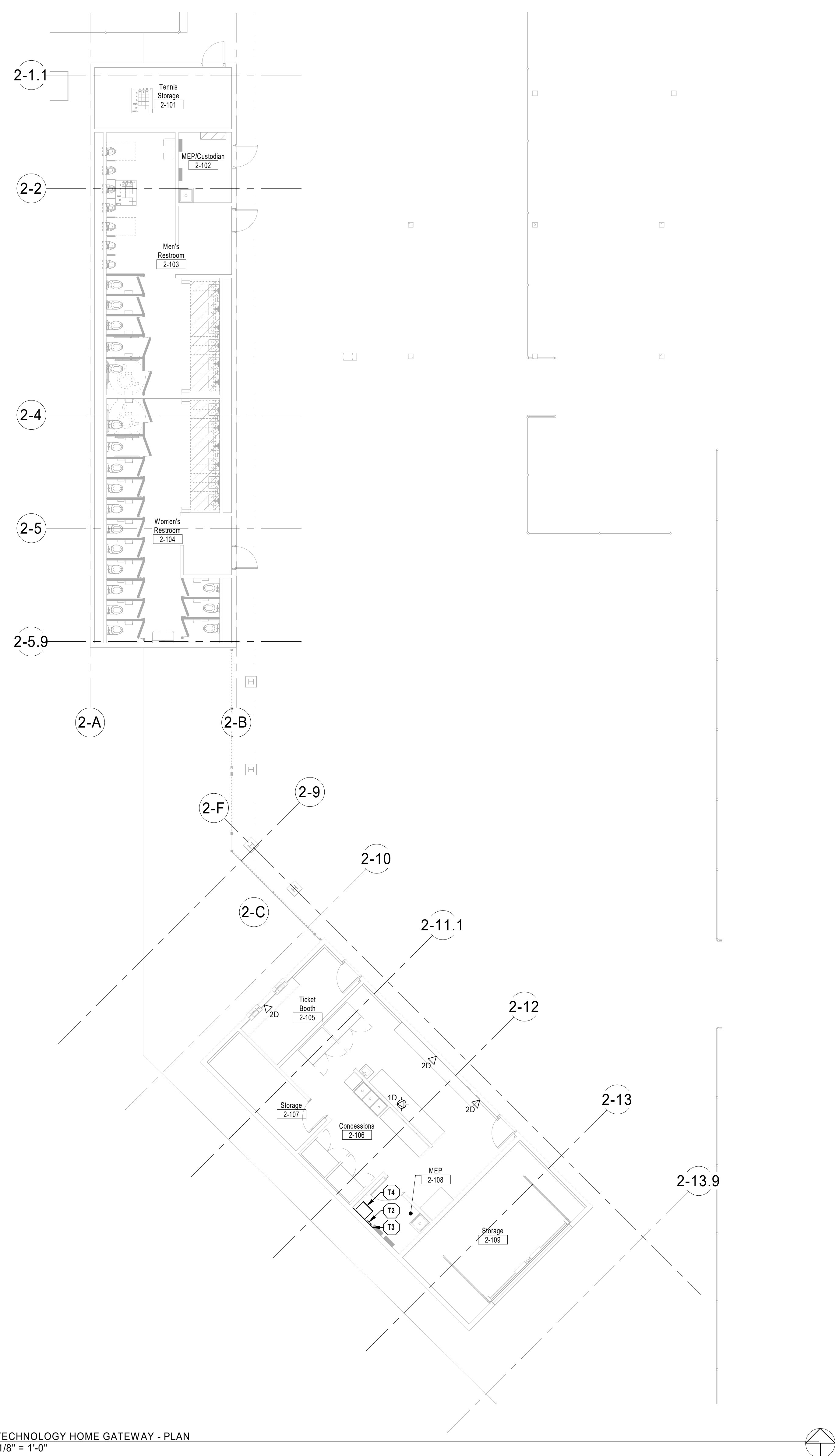
TECHNOLOGY HOME
GATEWAY - PLAN

H-TN121

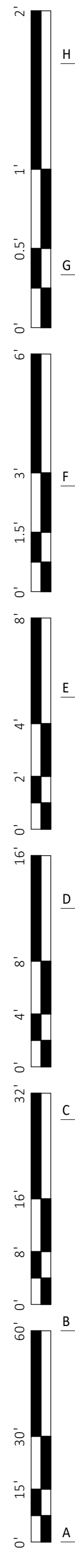
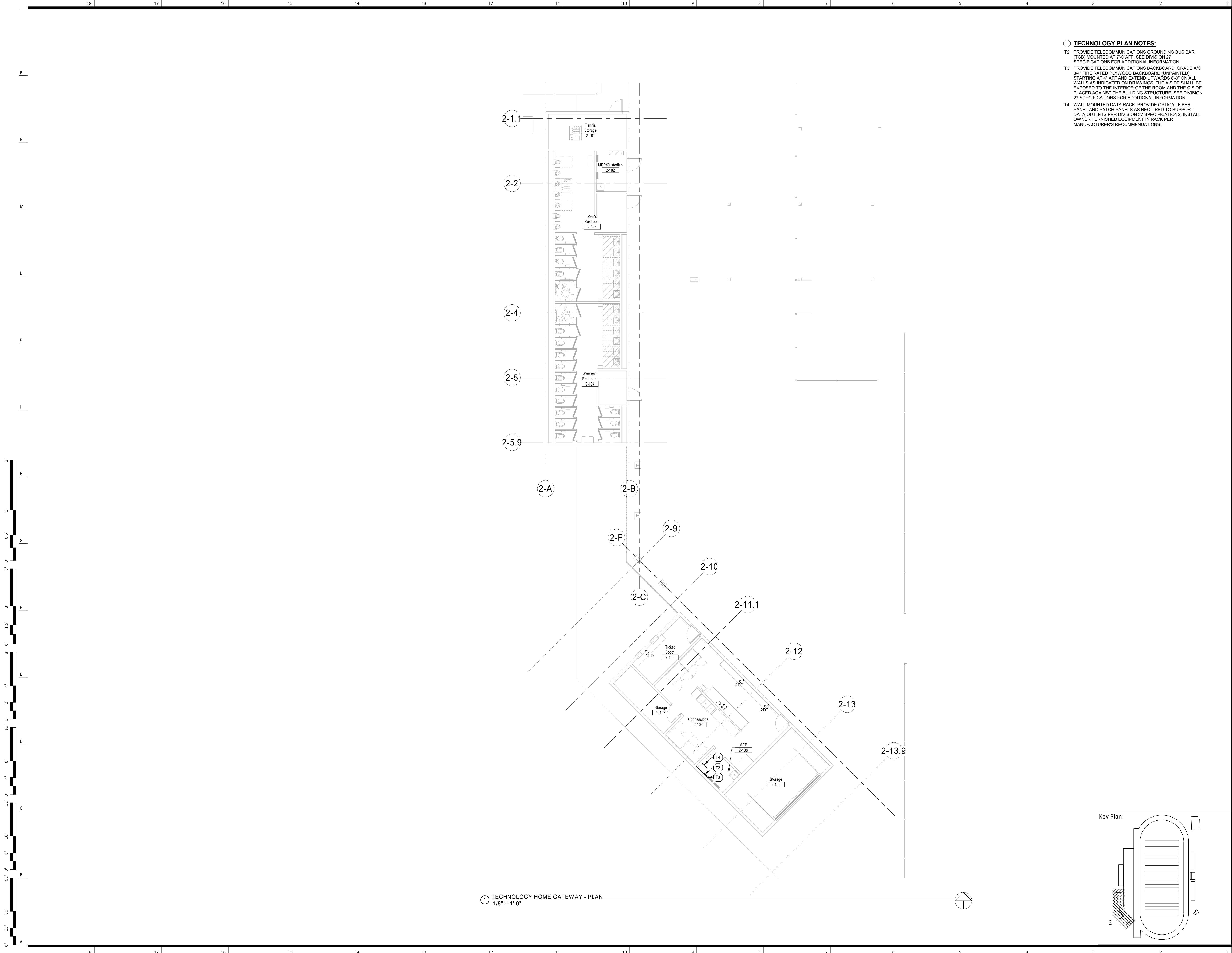
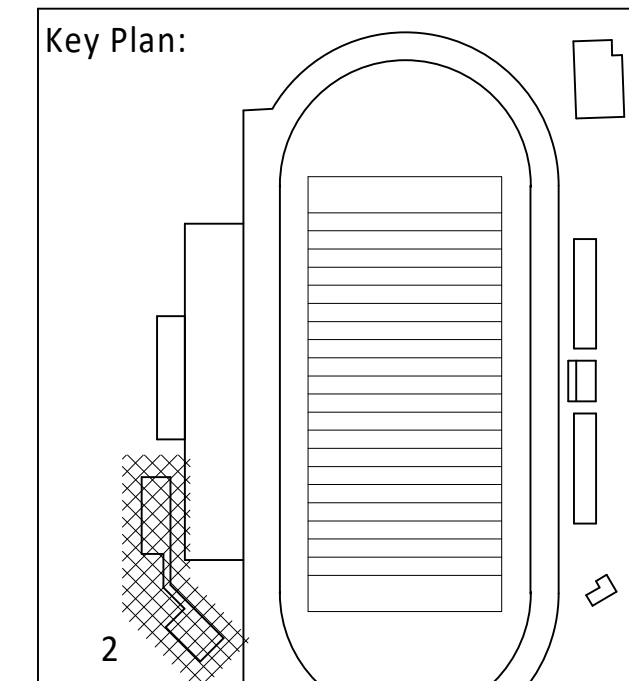
BID SET

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1 TECHNOLOGY HOME GATEWAY - PLAN
1/8" = 1'-0"



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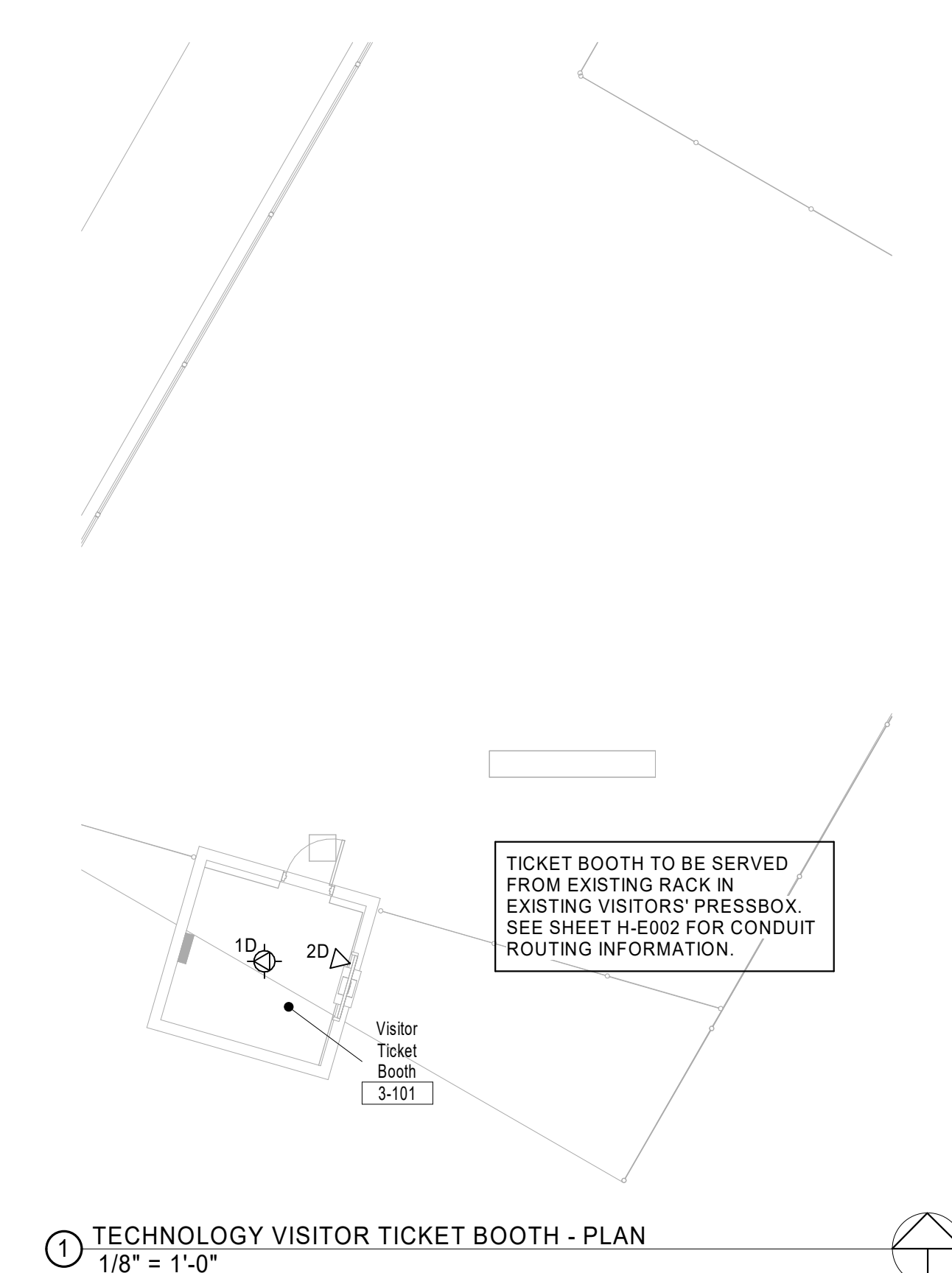
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TECHNOLOGY VISITOR
TICKET BOOTH - PLAN

H-TN131

BID SET



1 TECHNOLOGY VISITOR TICKET BOOTH - PLAN
1/8" = 1'-0"

