

SALINA FIRE STATION #4

BID SET DOCUMENTS

PERSPECTIVE:



DRAWING LIST	
1 - CIVIL	
C-01	DEMOLITION PLAN
C-02	SITE AND DIMENSION PLAN
C-03	GRADING AND EROSION CONTROL PLAN
C-04	UTILITY PLAN
C-05	SANITARY SEWER LINE PLAN
C-06	DETAIL SHEET
C-07	DETAIL SHEET
C-08	DETAIL SHEET
C-09	DETAIL SHEET
C-10	DETAIL SHEET
C-11	DETAIL SHEET
C-12	DETAIL SHEET
C-13	LANDSCAPE PLAN
3 - ARCHITECTURE	
SP1.01	SITE PLAN
SP1.02	WALL MOCK-UP DETAILS
A0.01	CODE REVIEW
A0.02	ACCESSIBILITY REFERENCE DIAGRAMS
A1.01	DIMENSION PLAN
A1.02	KEYNOTE PLAN
A1.03	ROOF PLAN
A2.01	ELEVATIONS
A2.02	BUILDING SECTIONS
A3.01	WALL SECTIONS
A3.02	WALL SECTIONS
A3.03	SECTION DETAILS
A4.01	INTERIOR ELEVATIONS
A4.02	INTERIOR ELEVATIONS
A4.03	INTERIOR ELEVATIONS
A4.04	INTERIOR ELEVATIONS
A5.01	REFLECTED CEILING PLAN
A5.02	APP. BAY REFLECTED CEILING PLAN
A6.01	DOOR SCHEDULE
A6.02	STOREFRONT DETAILS
A7.01	FINISH SCHEDULE
A7.02	FINISH PLAN
A7.03	FRAE PLAN
A7.04	INTERIOR SCHEDULES
A7.05	INTERIOR DETAILS
4 - STRUCTURAL	
S0.01	GENERAL NOTES
S0.02	3D VIEW
S0.03	CMU DETAILS
S0.04	CFMF DETAILS
S0.05	STEEL DETAILS & SCHEDULES
S1.00	FOUNDATION PLAN
S1.01	MEZZANINE FRAMING PLAN
S1.02	LOW ROOF FRAMING PLAN
S1.03	HIGH ROOF FRAMING PLAN
S2.00	FOUNDATION SECTIONS
S2.01	FOUNDATION SECTIONS
S3.00	ROOF FRAMING SECTIONS
S3.01	ROOF FRAMING SECTIONS
S3.02	ROOF FRAMING SECTIONS
S3.03	ROOF FRAMING SECTIONS
S3.04	ROOF FRAMING SECTIONS
5 - MECHANICAL, PLUMBING & ELECTRICAL	
MEP0.01	MEP COVER SHEET
MEP0.02	THROUGH PENETRATION DETAILS
MEP1.01	MEP SITE PLAN
MEP2.01	MEP ROOF PLAN
M1.01	HVAC PLAN
M1.11	HVAC ENLARGED PLANS
M2.01	MECHANICAL SCHEDULES & DETAILS
M3.01	MECHANICAL DETAILS
P1.01	PLUMBING PLAN - WATER & GAS
P2.01	WASTE & VENT PLAN
P3.01	PLUMBING RISER DIAGRAMS
P4.01	PLUMBING SCHEDULES
P5.01	PLUMBING DETAILS
E1.01	LIGHTING PLAN
E2.01	POWER PLAN
E3.01	SPECIAL SYSTEMS PLAN
E4.01	ELECTRICAL RISER DIAGRAM
E4.02	ELECTRICAL PANELBOARD SCHEDULES
E5.01	ELECTRICAL SCHEDULES & DETAILS
E5.02	ELECTRICAL DETAILS
E5.03	ELECTRICAL DETAILS

JOB NUMBER 22003

SALINA FIRE STATION #4

EAST CRAWFORD STREET
& MARKLEY ROAD
SALINA, KS 67401
CITY OF SALINA

755 Minnesota Ave., Suite 662 Kansas City, Kansas 66101 Tel. 816.300.4101 Fax 816.300.4102

SYMBOLS	
Detail Number	
Sheet Number	
Building Section	
Callout	
Elevation	
Room Designation	
Door Number	
Wall Type	
Window Designation	
Keynote Designation	
Spot Elevation	
Revision Symbol	

I HEREBY CERTIFY THAT THE DOCUMENTS INTENDED TO BE AUTHENTICATED BY MY SEAL ARE LIMITED TO THE COVER AND THOSE SHEETS LISTED UNDER THE ARCHITECTURAL HEADER OF THE DRAWING LIST. I HEREBY DISCLAIM RESPONSIBILITY FOR ALL OTHER PLANS, SPECIFICATIONS, ESTIMATES, REPORTS, OR OTHER DOCUMENTS OR INSTRUMENTS RELATING TO OR INTENDED TO BE USED FOR ANY PART OF PARTS OF THE ARCHITECTURAL OR ENGINEERING PROJECT.

PRINCIPAL DATE
KANSAS LICENSE NO. #8101

Douglas Bae, Architect
KS # 8101
ISSUE DATE 09/09/2024
No. Description Date

WSKF, Inc. © 2024

COVER
A0.00



Kansas Certificate of Authority #A-516

CIVIL ENGINEER
KAW Valley Engineering
KS Certificate of Authority #29241
1627 Sunflower Lane
Salina, KS 67401
785-823-3400

Structural Engineer
Bob D. Campbell & Co.
KS Certificate of Authority #000442
4338 Bellview
Kansas City, MO 64111
816-778-7149

MEP Engineer
PKMR Engineers, Inc.
KS Certificate of Authority #E-2002020886
13300 W. 98th St.
Lenexa, KS 66215
913-492-2400

9/9/2024 10:21:19 AM
C:\Users\MattMcCarthy\Desktop\Revit\2003_Salina Station_4_CENTRAL_mmcCarthy\vid.dwg.com.plt



Kansas Certificate of Authority #A-516

CIVIL ENGINEER
KAW Valley Engineering
KS Certificate of Authority #29241
1627 Sunflower Lane
Salina, KS 67401
785-823-3400

Structural Engineer
Bob D. Campbell & Co.
KS Certificate of Authority #000442
4338 Bellview
Kansas City, MO 64111
816-778-7149

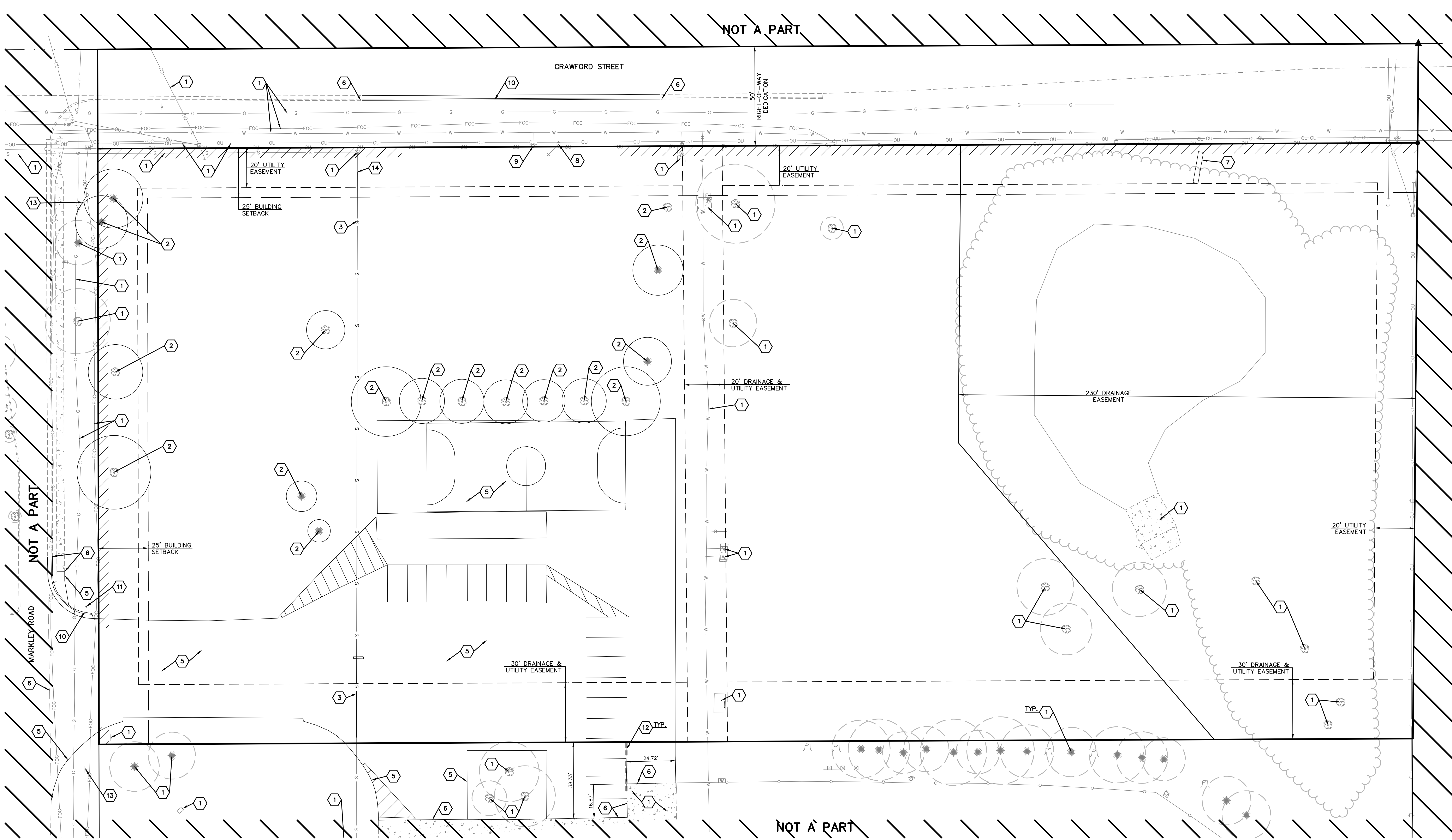
MEP Engineer
PKMR Engineers, Inc.
KS Certificate of Authority #E-2002020886
13300 W. 89th St.
Lenexa, KS 66215
913-492-2400

JOB NUMBER 22003

SALINA FIRE STATION #4

EAST CRAWFORD STREET
& MARKLEY ROAD
SALINA, KS 67401
CITY OF SALINA

725 Minnesota Ave., Suite 662, Kansas City, Kansas 66101 Tel: 816.300.4101 Fax 816.300.4102



NOT A PART

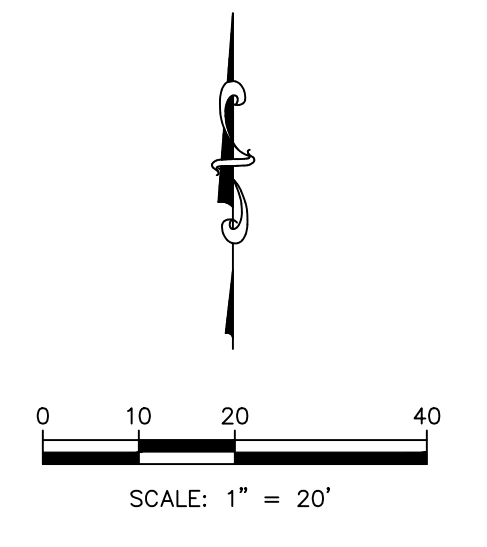
NOT A PART

GENERAL 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 SALINA AND STATE REGULATIONS. SITE CONDITIONS SHOWN WERE AS OF MAY 2, 2023.
2. ALL UTILITY PIPE LINES TO BE ABANDONED SHALL BE PLUGGED PER CITY AND STATE REGULATIONS.
3. DRIVES, PAVING AND OTHER STRUCTURES ON STREET OR HIGHWAY RIGHT-OF-WAY 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 PAVING WITHIN PROPERTY TO BE REMOVED AND DISPOSED OF IN CONFORMANCE WITH LOCAL, STATE AND FEDERAL REGULATIONS.
5. ALL EXISTING UTILITIES ETC. LOCATED WITHIN THE BOUNDARIES OF THE PROPOSED BUILDING SHALL BE COMPLETELY REMOVED TO 10 FEET OUTSIDE OF BUILDING LINE.
6. 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.
7. CONTRACTOR SHALL VERIFY THAT ALL UTILITIES TO EXISTING STRUCTURES HAVE BEEN DISCONNECTED PRIOR TO COMMENCING DEMOLITION.
8. EXISTING POWER LINES AND APPURTENANCES TO BE RELOCATED BY EVERYONE.

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 SHALL 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 SHALL 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.

- DEMOLITION NOTES:**
- 1 TO REMAIN
 - 2 REMOVE TREES
 - 3 CONTRACTOR TO REMOVE EXISTING SANITARY SEWER LINES, AS DESCRIBED IN PROJECT GEOTECH REPORT. REFER TO SANITARY SEWER LINE PLAN FOR LIMITS.
 - 4 CONTRACTOR TO REMOVE SANITARY SEWER MANHOLE
 - 5 CONTRACTOR TO REMOVE PAVING
 - 6 SAWCUT LINE
 - 7 CONTRACTOR TO REMOVE 15" RCP
 - 8 UTILITY POLE TO BE RELOCATED (SEE UTILITY PLAN)
 - 9 FIRE HYDRANT TO BE RELOCATED (SEE UTILITY PLAN)
 - 10 CONTRACTOR TO REMOVE CURB AND GUTTER
 - 11 STOP SIGN TO BE REMOVED AND RESET AFTER CONSTRUCTION
 - 12 CONTRACTOR TO REMOVE CONCRETE WHEEL STOPS AND SALVAGE TO THE CITY OF SALINA. COORDINATE WITH CITY OF SALINA.
 - 13 SIGN TO BE RELOCATED BY CITY OF SALINA PARKS AND RECREATION
 - 14 CONTRACTOR TO PLUG SANITARY SEWER LINE FLOWING FROM SOUTH PER CITY OF SALINA STANDARDS

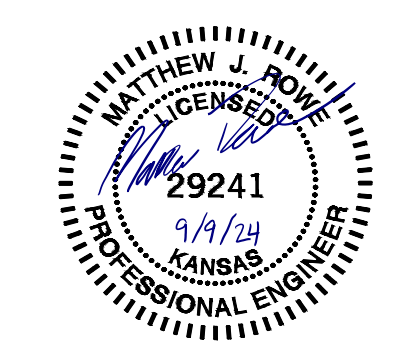


PROJ. NO. E2203222 DSN: MUR ENGINEER
CITY: 322235M DRW: TDA KS # 29241

1627 SUNFLOWER LANE
SALINA, KANSAS 67401
PH. (785) 823-3400
info@kveeng.com | www.kveeng.com

KV KAW VALLEY ENGINEERING

KAW VALLEY ENGINEERING, INC., IS AUTHORIZED TO OFFER ENGINEERING SERVICES BY KANSAS STATE CERTIFICATE OF AUTHORIZATION # E-113. EXPIRES 12/31/24



BID SET DOCUMENTS

ISSUE DATE	09/05/2024
No. Description	Date

WSKF, Inc. © 2024

DEMOLITION PLAN

C-01



Kansas Certificate of Authority #A-516

CIVIL ENGINEER
KAW Valley Engineering
KS Certificate of Authority #29241
1627 Sunflower Lane
Salina, KS 67401
785-823-3400

Structural Engineer
Bob D. Campbell & Co.
KS Certificate of Authority
#000442
4338 Bellview
Kansas City, MO 64111
816-778-7149

MEP Engineer
PKMR Engineers, Inc.
KS Certificate of Authority
#E-200202886
13300 W. 89th St.
Lenexa, KS 66215
913-492-2400

JOB NUMBER 22003

SALINA FIRE STATION #4

EAST CRAWFORD STREET
& MARKLEY ROAD
SALINA, KS 67401
CITY OF SALINA

725 Minnesota Ave., Suite 662, Kansas City, Kansas 66101 Tel: 816.300.4101 Fax 816.300.4102



BID SET DOCUMENTS

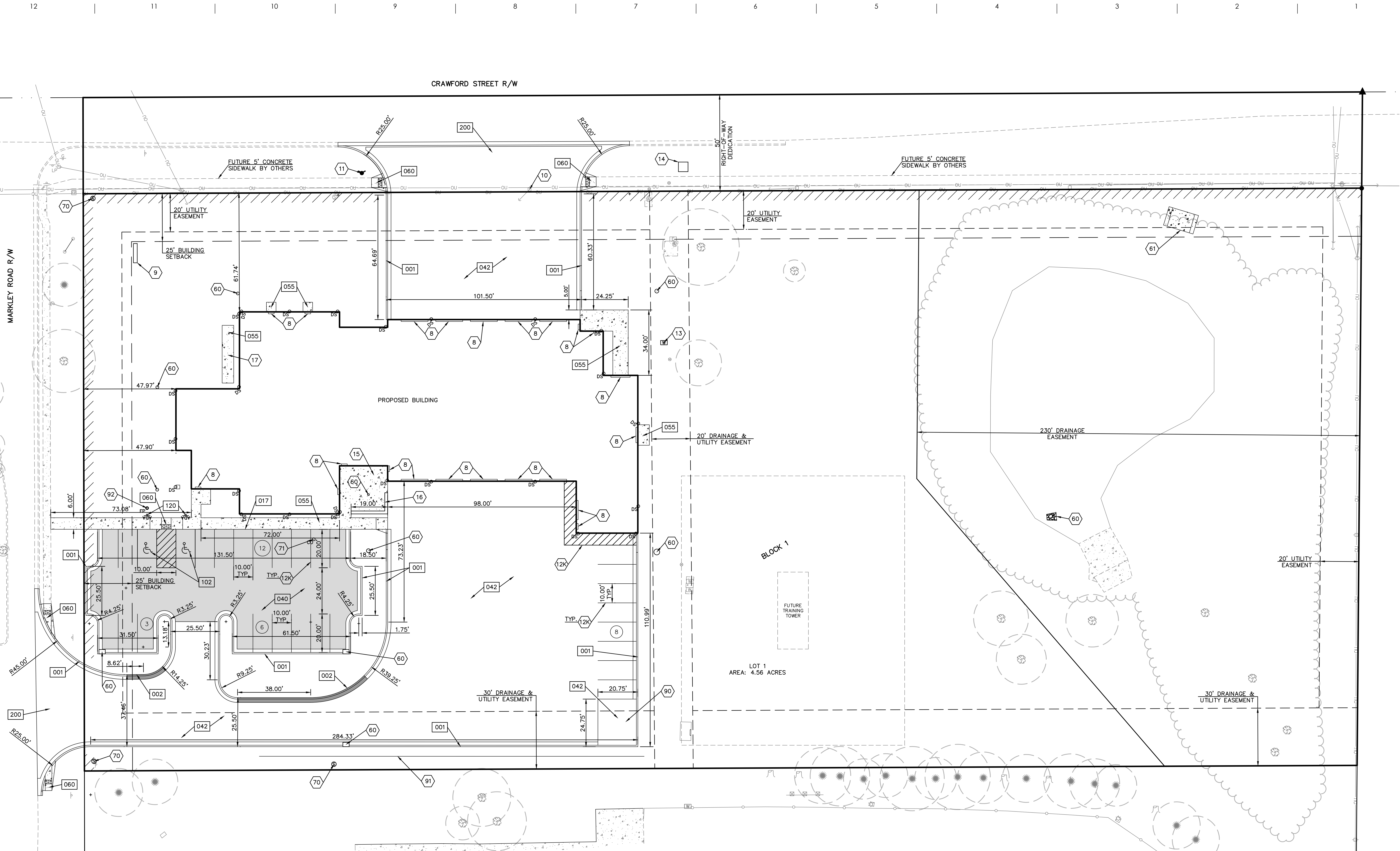
ISSUE DATE 09/05/2024
No Description Date

WSKF, Inc. © 2024

SITE AND
DIMENSION
PLAN

C-02

CRAWFORD STREET R/W



- CONSTRUCTION NOTES:**
- COORDINATE START-UP AND ALL CONSTRUCTION ACTIVITIES WITH OWNER.
 - CONSTRUCTION METHODS AND MATERIALS NOT SPECIFIED IN THESE PLANS ARE TO MEET OR EXCEED THE CITY OF SALINA.
 - 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 AND RESIDENTS ALONG AND ADJACENT TO HIGHWAYS IN THE CONSTRUCTION AREA.
 - ONE IN EIGHT ACCESSIBLE PARKING STALLS MUST HAVE A SIGN DESIGNATING "VAN-ACCESSIBLE". SEE DETAIL 102 AND 120.
 - ALL TRAFFIC CONTROL DEVICES, INSTALLATION AND OPERATIONS SHALL CONFORM WITH THE "MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES".
 - PAINT FOR STRIPING ON PUBLIC STREETS, HIGHWAYS AND ENTRANCES SHALL BE REFLECTORIZED PAINT CONFORMING TO THE SPECIFICATIONS OR REQUIREMENTS OF THE AUTHORITY GOVERNING THE STREET OR HIGHWAY.

SAFETY NOTICE TO CONTRACTOR
IN ACCORDANCE WITH GENERALLY ACCEPTED CONSTRUCTION PRACTICES, THE CONTRACTOR SHALL 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 WARRANT THESE DESIGNS OR PLANS AS CONSTRUCTED, EXCEPT IN THE SPECIFIC CASES WHERE KAW VALLEY ENGINEERING PERSONNEL INSPECT AND CONTROL THE PHYSICAL CONSTRUCTION ON A CONTINUING BASIS AT THE SITE.

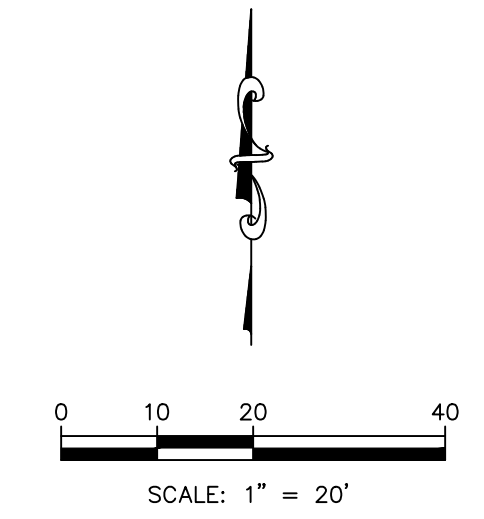
CAUTION - NOTICE TO CONTRACTOR
THE CONTRACTOR IS SPECIFICALLY CAUTIONED THAT THE LOCATION AND/OR ELEVATION OF EXISTING UTILITIES AS SHOWN ON THESE PLANS IS BASED ON RECORDS OF THE VARIOUS UTILITY COMPANIES AND, WHERE POSSIBLE, MEASUREMENTS TAKEN IN THE FIELD. THE INFORMATION IS NOT TO BE RELIED ON AS BEING EXACT OR COMPLETE. THE CONTRACTOR SHALL 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.

NOTE:
CONTRACTOR SHALL REFER TO ARCHITECTURAL PLANS FOR EXACT LOCATIONS AND DIMENSIONS OF ENTRANCE, SLOPED PAVING, EXIT PORCHES, RAMPS, TRUCK DOCKS, PRECISE BUILDING DIMENSIONS AND EXACT BUILDING UTILITY ENTRANCE LOCATIONS.
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.
3. ALL DIMENSIONS ARE TO BACK OF CURB UNLESS NOTED OTHERWISE.
4. ALL DIMENSIONS ARE PERPENDICULAR TO PROPERTY LINE.
5. ACTUAL SIGN LOCATIONS TO BE COORDINATED WITH CONSTRUCTION MANAGER.

- DETAILS - SEE DETAIL SHEET NO. C-06 & C-07 FOR THE FOLLOWING DETAILS**
- 001 CONCRETE CURB AND GUTTER
 - 002 REVERSE FLOW CONCRETE CURB AND GUTTER
 - 017 CURB WALK/CURB (AT BUILDING)
 - 040 REGULAR DUTY PAVING
 - 042 HEAVY DUTY PAVING
 - 055 CONCRETE SIDEWALK
 - 060 SIDEWALK RAMPS
 - 102 ACCESSIBLE STRIPING
 - 120 ACCESSIBLE PARKING SIGN
 - 200 CITY STANDARD DRIVEWAY ENTRANCE

- NOTES:**
- 8 ENTRY (SEE ARCHITECTURAL PLANS)
 - 9 MONUMENT SIGN (SEE ARCHITECTURAL PLANS)
 - 10 UTILITY POLE TO BE RELOCATED (SEE UTILITY PLAN)
 - 11 FIRE HYDRANT (SEE UTILITY PLAN)
 - 12K WHITE PARKING LOT STRIPING (SHERWIN-WILLIAMS TM 2160 LEAD FREE OR EQUAL)
 - 13 WATER APPARATUS (SEE UTILITY PLAN)
 - 14 ELECTRICAL TRANSFORMER (SEE UTILITY PLAN)
 - 15 OUTDOOR PATIO (SEE ARCHITECTURAL PLANS)
 - 16 LANDSCAPE WALL (SEE ARCHITECTURAL PLANS)
 - 17 CONCRETE PAD FOR MECHANICAL EQUIPMENT (SEE MEP PLANS)
 - 60 STORM STRUCTURE (SEE UTILITY PLAN)
 - 61 POND OUTLET STRUCTURE (SEE GRADING PLAN)
 - 70 SANITARY SEWER MANHOLE (SEE SANITARY SEWER PLAN)
 - 71 SANITARY SEWER APPARATUS (SEE UTILITY PLAN)
 - 90 TRASH ENCLOSURE (SEE ARCHITECTURAL PLANS)
 - 91 FENCE BARRIER (SEE ARCHITECTURAL PLANS)
 - 92 FLAG POLE (SEE ARCHITECTURAL PLANS)

- PAVING LEGEND**
- REGULAR DUTY PAVING (040)
 - CONCRETE SIDEWALK (055)
 - CONCRETE CURB AND GUTTER (001)
 - CONCRETE CURB AND GUTTER WITH REVERSE FLOW "DRY CURB" (002)
 - PARKING STALL COUNT



PROJ. NO. E22D3222 DSN: MUR ENGINEER
C7N: 32225P DWG: TDA KS # 29241

1627 SUNFLOWER LANE
SALINA, KANSAS 67401
PH. (785) 823-3400
www.kawvalley.com | www.kawvalley.com

KAW VALLEY ENGINEERING

KAW VALLEY ENGINEERING, INC., IS AUTHORIZED TO OFFER ENGINEERING SERVICES BY KANSAS STATE CERTIFICATE OF AUTHORIZATION # E-113. EXPIRES 12/31/24



Kansas Certificate of Authority #A-516

CIVIL ENGINEER
KAW Valley Engineering
KS Certificate of Authority #29241
1627 Sunflower Lane
Salina, KS 67401
785-823-3400

Structural Engineer
Bob D. Campbell & Co.
KS Certificate of Authority
#000442
4338 Bellvue
Kansas City, MO 64111
816-778-7149

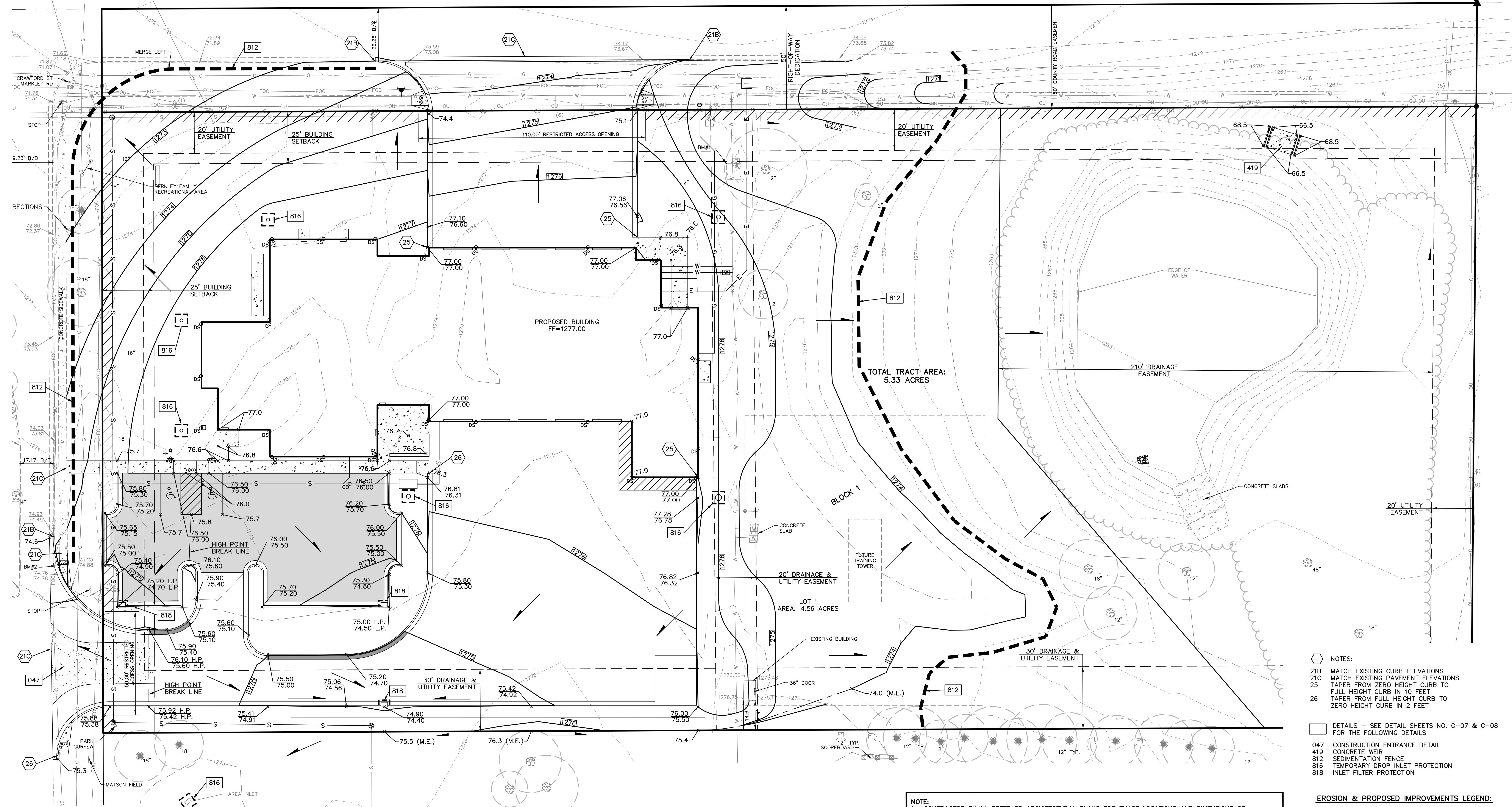
MEP Engineer
PKMR Engineers, Inc.
KS Certificate of Authority
#E-2002020886
13300 W. 98th St.
Lenexa, KS 66215
913-492-2400

JOB NUMBER 22003

SALINA FIRE STATION #4
EAST CRAWFORD STREET
& MARKLEY ROAD
SALINA, KS 67401
CITY OF SALINA
725 Minnesota Ave., Suite 662 Kansas City, Kansas 66101 Tel: 816.300.4101 Fax 816.300.4102

CRAWFORD STREET R/W

N 1/16 COR. NE 1/4, SEC. 20
COTTON PICKER SPINDLE



- NOTES:
- 21B MATCH EXISTING CURB ELEVATIONS
 - 21C MATCH EXISTING PAVEMENT ELEVATIONS
 - 25 TAPER FROM ZERO HEIGHT CURB TO FULL HEIGHT CURB IN 10 FEET
 - 26 TAPER FROM FULL HEIGHT CURB TO ZERO HEIGHT CURB IN 2 FEET
- DETAILS - SEE DETAIL SHEETS NO. C-07 & C-08
- 047 CONSTRUCTION ENTRANCE DETAIL
 - 419 CONCRETE WEIR
 - 812 SEDIMENTATION FENCE
 - 816 TEMPORARY DROP INLET PROTECTION
 - 818 INLET FILTER PROTECTION

- EROSION & PROPOSED IMPROVEMENTS LEGEND:
- 82.95 SPOT ELEVATION (ADD 1200), X TOP OF PAVEMENT
 - 83.65 TOP OF CURB (ADD 1200), 83.15 FLOWLINE OF CURB (ADD 1200)
 - FLOW DIRECTION
 - - - - - EXISTING GROUND CONTOUR (1' INTERVALS)
 - 1270 PROPOSED FINISHED GROUND CONTOUR (1' INTERVALS)
 - - - - - DRAINAGE FLOWPATH
 - - - - - SEDIMENTATION FENCE
 - - - - - HAY BALE DIKE
 - H.P. HIGH POINT
 - L.P. LOW POINT
 - M.E. MATCH EXISTING

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

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 CONTRACT DOCUMENTS.

SAFETY NOTICE TO CONTRACTOR:
IN ACCORDANCE WITH GENERALLY ACCEPTED CONSTRUCTION PRACTICES, THE CONTRACTOR SHALL 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 CONTINUOUS 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 SHALL 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.**

THE COORDINATES PROVIDED ON THIS PLAN ARE FOR INFORMATION AND CHECKING PURPOSES ONLY. IT IS THE CONTRACTOR'S RESPONSIBILITY TO CALCULATE CONSTRUCTION STAKING COORDINATES ACCORDING TO THE DIMENSIONS SHOWN ON THESE PLANS. CONTRACTOR SHALL VERIFY THE ACCURACY OF THE COORDINATES SHOWN HEREON BEFORE CONSTRUCTION.

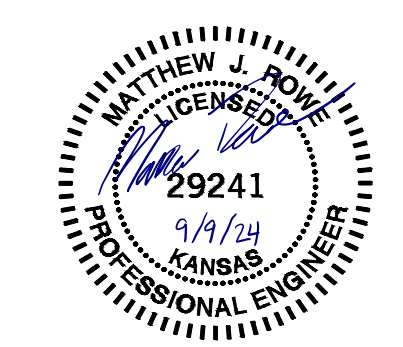
5. EARTHWORK UNDER THE BUILDING SHALL COMPLY WITH THE PROJECT ARCHITECTURAL PLANS. OTHER FILL MATERIAL SHALL BE MADE IN LIFTS NOT TO EXCEED EIGHT INCHES DEPTH COMPACTED TO 95% STANDARD PROCTOR DENSITY. FILL MATERIAL MAY INCLUDE ROCK FROM ON-SITE EXCAVATION IF CAREFULLY PLACED SO THAT LARGE STONES ARE WELL DISTRIBUTED AND VOIDS ARE COMPLETELY FILLED WITH SMALLER STONES, EARTH, SAND OR GRAVEL TO FURNISH A SOLID EMBANKMENT. NO ROCK LARGER THAN THREE INCHES IN ANY DIMENSION NOR ANY SHALE SHALL BE PLACED IN THE TOP 12 INCHES OF EMBANKMENT.
6. THE MOISTURE CONTENT OF FILL AT THE TIME OF COMPACTION SHOULD BE WITHIN A RANGE OF 1 PERCENT BELOW TO 3 PERCENT ABOVE OPTIMUM MOISTURE CONTENT PER STANDARD PROCTOR.
7. AREAS THAT ARE TO BE CUT TO SUBGRADE LEVELS SHALL BE PROOF ROLLED WITH A MODERATELY HEAVY LOADED DUMP TRUCK OR SIMILAR APPROVED CONSTRUCTION EQUIPMENT TO DETECT UNSUITABLE SOIL CONDITIONS.
8. IN ALL AREAS OF EXCAVATION, IF UNSUITABLE SOIL CONDITIONS ARE ENCOUNTERED, A QUALIFIED GEOTECHNICAL 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.
9. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE CONTROL OF DUST AND DIRT RISING AND SCATTERING IN THE AIR DURING CONSTRUCTION AND SHALL PROVIDE WATER SPRINKLING OR OTHER SUITABLE METHODS OF CONTROL. THE CONTRACTOR SHALL COMPLY WITH ALL GOVERNING REGULATIONS PERTAINING TO ENVIRONMENTAL PROTECTION.
10. ALL SLOPES ARE TO BE 3:1 OR FLATTER UNLESS OTHERWISE INDICATED.
11. ALL SLOPES EXCEEDING 3:1 SHALL BE PROTECTED BY RIP RAP, CONCRETE PAVING, OR OTHER METHODS INDICATED ON THESE PLANS, THAT WILL PREVENT EROSION AND PLACED SUCH THAT THE SURFACE IS FLUSH WITH SURROUNDING GROUND AND SHAPED TO CHANNEL WATER IN DIRECTIONS INDICATED.
12. ALL SLOPES AND AREAS DISTURBED BY CONSTRUCTION SHALL BE GRADED SMOOTH AND 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 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.
13. CONTRACTOR SHALL USE SILT FENCE, BALES OF HAY OR OTHER MEANS OF CONTROLLING EROSION ALONG THE EDGE OF THE PROPERTY OR OTHER BOTTOM OF SLOPE LOCATIONS.
14. CONTRACTOR IS TO REMOVE AND DISPOSE OF ALL DEBRIS, RUBBISH AND OTHER MATERIALS RESULTING FROM PREVIOUS AND CURRENT DEMOLITION OPERATIONS.
15. 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.
16. 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.
17. PIPE LENGTHS ARE CENTER TO CENTER OF STRUCTURE OR TO END OF END SECTIONS.
18. HANDICAP STALLS SHALL MEET ADA REQUIREMENTS AND SHALL NOT EXCEED 2% SLOPE IN ANY DIRECTION AT THE BUILDING ENTRY AND ACCESSIBLE PARKING STALLS. SLOPES EXCEEDING 2.0% WILL BE REPLACED AT THE CONTRACTOR'S EXPENSE.

IF DISCREPANCIES EXIST BETWEEN THE GRADING NOTES BELOW AND THE RECOMMENDATIONS OUTLINED IN THE PROJECT GEOTECHNICAL REPORT, THE RECOMMENDATIONS OUTLINED IN THE GEOTECHNICAL REPORT SHALL GOVERN.

- GRADING NOTES:**
1. REFERENCE GEOTECHNICAL PROJECT REPORT BY KAW VALLEY ENGINEERING DATED NOVEMBER 22, 2023.
 2. THE CONSTRUCTION AREA SHALL BE CLEARED, CRIBBED, 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 TIMBER WILL NOT BE PERMITTED UNLESS APPROVAL IS OBTAINED FROM GOVERNING OFFICIALS. STRIPPING EXISTING TOPSOIL AND ORGANIC MATTER SHALL BE TO A MINIMUM DEPTH OF 12 INCHES.
 3. AREAS TO RECEIVE FILL SHALL BE SCARIFIED AND THE TOP 8-INCH DEPTH COMPACTED TO 95% STANDARD PROCTOR DENSITY. ANY UNSUITABLE AREAS SHALL BE UNDERCUT AND REPLACED WITH SUITABLE MATERIAL BEFORE ANY FILL MATERIAL CAN BE APPLIED.
 4. OFF-SITE FILL MATERIAL SHALL HAVE A PLASTICITY INDEX BETWEEN 10 AND 25. LIQUID LIMIT OF 45 OR LESS AND CONTAIN NO ROCK LARGER THAN THREE INCHES. OFF-SITE FILL MATERIAL SHALL BE APPROVED BY THE OWNER PRIOR TO BRINGING ON SITE.

PROJ. NO. E2203222 DSN: MJR MATTHEW J. ROWE
 C7N 322205 DWG: TDA ENGINEER
 KS # 29241
 1627 SUNFLOWER LANE
 SALINA, KANSAS 67401
 PH. (785) 823-3400
 info@kve.com | www.kve.com

KAW VALLEY ENGINEERING
 KAW VALLEY ENGINEERING, INC., IS AUTHORIZED TO OFFER
 ENGINEERING SERVICES BY KANSAS STATE CERTIFICATE OF
 AUTHORIZATION # E-113. EXPIRES 12/31/24

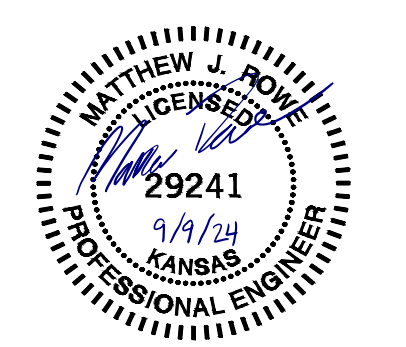


BID SET DOCUMENTS

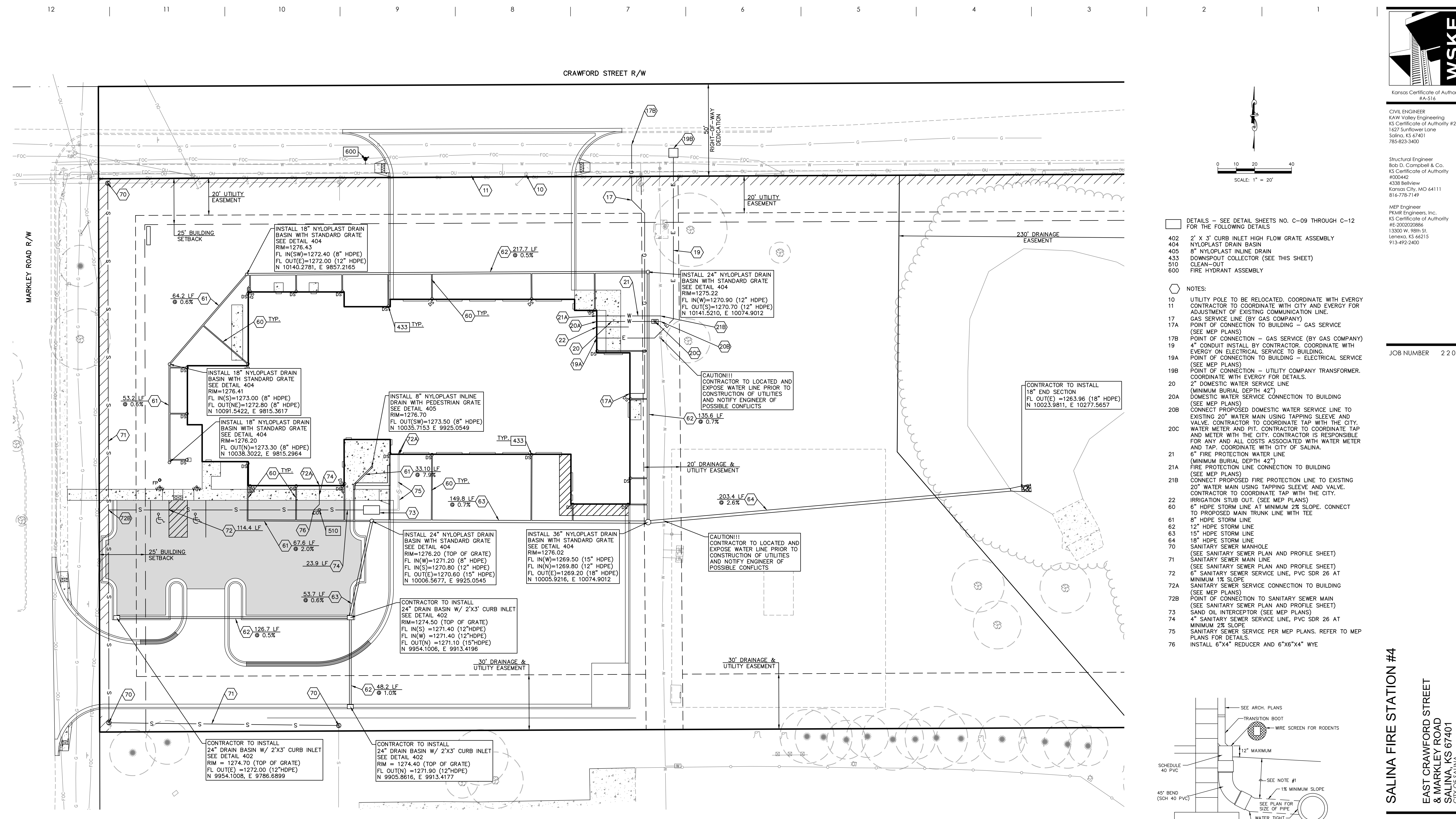
ISSUE DATE	09/05/2024
No. Description	Date

GRADING AND EROSION CONTROL PLAN

C-03

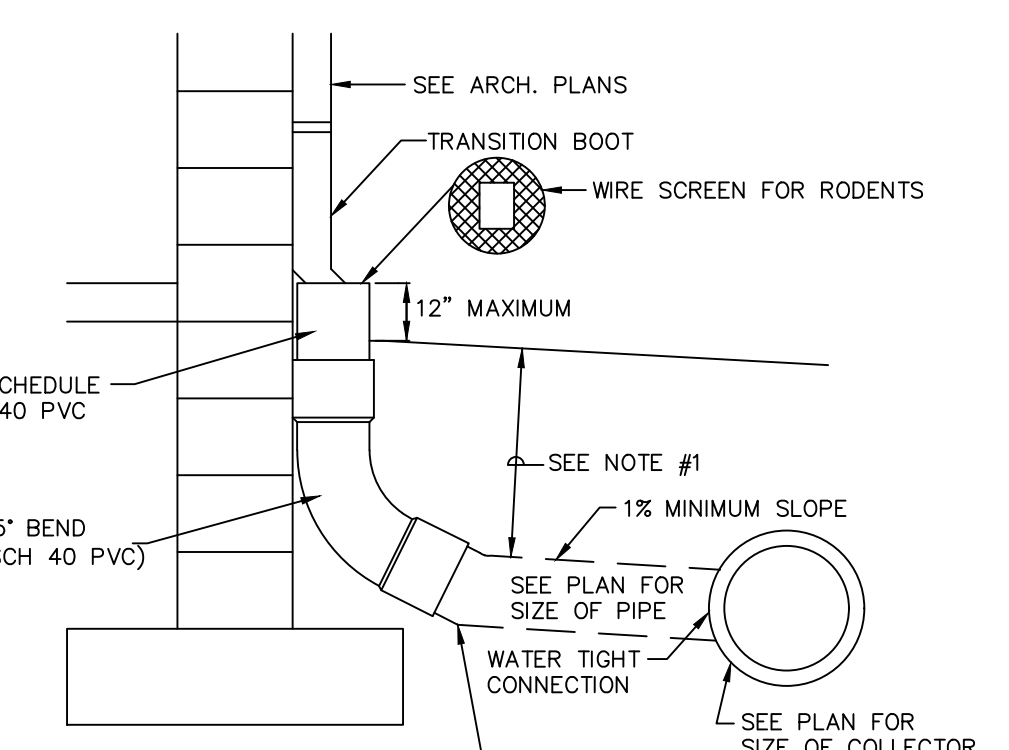


CRAWFORD STREET R/W



- DETAILS - SEE DETAIL SHEETS NO. C-09 THROUGH C-12 FOR THE FOLLOWING DETAILS
- 402 2' X 3' CURB INLET HIGH FLOW GRATE ASSEMBLY
- 404 NYLOPLAST DRAIN BASIN
- 405 8" NYLOPLAST INLINE DRAIN
- 433 DOWNSPOUT COLLECTOR (SEE THIS SHEET)
- 510 CLEAN-OUT
- 600 FIRE HYDRANT ASSEMBLY

- NOTES:
- 10 UTILITY POLE TO BE RELOCATED. COORDINATE WITH EVERY CONTRACTOR TO COORDINATE WITH CITY AND EVERY FOR ADJUSTMENT OF EXISTING COMMUNICATION LINE.
 - 11 GAS SERVICE LINE (BY GAS COMPANY)
 - 17 POINT OF CONNECTION TO BUILDING - GAS SERVICE (SEE MEP PLANS)
 - 17B POINT OF CONNECTION - GAS SERVICE (BY GAS COMPANY)
 - 19 4" CONDUIT INSTALL BY CONTRACTOR. COORDINATE WITH EVERY ON ELECTRICAL SERVICE TO BUILDING.
 - 19A POINT OF CONNECTION TO BUILDING - ELECTRICAL SERVICE (SEE MEP PLANS)
 - 19B POINT OF CONNECTION - UTILITY COMPANY TRANSFORMER. COORDINATE WITH EVERY FOR DETAILS.
 - 20 2" DOMESTIC WATER SERVICE LINE (MINIMUM BURIAL DEPTH 42")
 - 20A DOMESTIC WATER SERVICE CONNECTION TO BUILDING (SEE MEP PLANS)
 - 20B CONNECT PROPOSED DOMESTIC WATER SERVICE LINE TO EXISTING 20" WATER MAIN USING TAPPING SLEEVE AND VALVE. CONTRACTOR TO COORDINATE TAP WITH THE CITY. WATER METER AND PIT. CONTRACTOR TO COORDINATE TAP AND METER WITH THE CITY. CONTRACTOR IS RESPONSIBLE FOR ANY AND ALL COSTS ASSOCIATED WITH WATER METER AND TAP. COORDINATE WITH CITY OF SALINA.
 - 21 6" FIRE PROTECTION WATER LINE (MINIMUM BURIAL DEPTH 42")
 - 21A FIRE PROTECTION LINE CONNECTION TO BUILDING (SEE MEP PLANS)
 - 21B CONNECT PROPOSED FIRE PROTECTION LINE TO EXISTING 20" WATER MAIN USING TAPPING SLEEVE AND VALVE. CONTRACTOR TO COORDINATE TAP WITH THE CITY. IRRIGATION STUB OUT. (SEE MEP PLANS)
 - 22 6" HDPE STORM LINE AT MINIMUM 2% SLOPE. CONNECT TO PROPOSED MAIN TRUNK LINE WITH TEE
 - 61 8" HDPE STORM LINE
 - 62 12" HDPE STORM LINE
 - 63 15" HDPE STORM LINE
 - 64 18" HDPE STORM LINE
 - 70 SANITARY SEWER MANHOLE (SEE SANITARY SEWER PLAN AND PROFILE SHEET)
 - 71 SANITARY SEWER MAIN LINE (SEE SANITARY SEWER PLAN AND PROFILE SHEET)
 - 72 6" SANITARY SEWER SERVICE LINE, PVC SDR 26 AT MINIMUM 1% SLOPE
 - 72A SANITARY SEWER SERVICE CONNECTION TO BUILDING (SEE MEP PLANS)
 - 72B POINT OF CONNECTION TO SANITARY SEWER MAIN (SEE SANITARY SEWER PLAN AND PROFILE SHEET)
 - 73 SAND OIL INTERCEPTOR (SEE MEP PLANS)
 - 74 4" SANITARY SEWER SERVICE LINE, PVC SDR 26 AT MINIMUM 2% SLOPE
 - 75 SANITARY SEWER SERVICE PER MEP PLANS. REFER TO MEP PLANS FOR DETAILS.
 - 76 INSTALL 6"x4" REDUCER AND 6"x6"x4" WYE



- NOTES:
- 1) FOR ALL DEPTHS OF COVER LESS THAN TWO (2) FEET, PIPE MUST BE SCHEDULED 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 SCHEDULED 40 PVC PIPE TO ANY OTHER PIPE TYPE.
 - 3) THE DOWNSPOUT COLLECTOR DRAIN SHALL BE INSTALLED BEFORE THE DOWNSPOUTS ARE INSTALLED ON THE BUILDING. SITEWORK 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

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 THE SURVEYOR 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.

SAFETY NOTICE TO CONTRACTOR
IN ACCORDANCE WITH GENERALLY ACCEPTED CONSTRUCTION PRACTICES, THE CONTRACTOR SHALL 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 WARRANT 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 SHALL 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.

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

UTILITY NOTES:
1. CONSTRUCTION SHALL NOT START ON ANY PUBLIC WATER OR SANITARY SEWER SYSTEM UNTIL WRITTEN APPROVAL OR PERMITS HAVE BEEN RECEIVED FROM THE OWNER.
2. ALL UTILITY AND STORM SEWER TRENCHES CONSTRUCTED UNDER AREAS THAT RECEIVE PAVING SHALL BE BACKFILLED TO 18 INCHES ABOVE THE TOP OF THE PIPE WITH SELECT GRANULAR MATERIAL PLACED ON EIGHT-INCH LIFTS, AND COMPACTED TO 95% MODIFIED PROCTOR DENSITY.
3. CONTRACTOR SHALL NOT OPEN, TURN OFF, INTERFERE WITH, OR ATTACH ANY PIPE OR HOSE TO OR TAP ANY WATER MAIN BELONGING TO THE CITY UNLESS DULY AUTHORIZED TO DO SO BY THE CITY. 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.**
4. DISINFECTION AND PRESSURE TESTING OF WATER LINES SHALL BE PERFORMED AND PAID FOR BY THE CONTRACTOR UNDER SUPERVISION OF A REPRESENTATIVE OF THE CITY WATER DEPARTMENT. CONTRACTOR SHALL NOTIFY THE CITY OF SALINA WATER DEPARTMENT 24 HOURS MINIMUM, PRIOR TO ANY TESTING.

- 5. ALL WATER AND SANITARY SEWER SYSTEMS THAT ARE TO BE PUBLIC LINES SHALL BE CONSTRUCTED IN ACCORDANCE WITH SPECIFICATIONS PREVIOUSLY APPROVED BY THE CITY OF SALINA AND THE KANSAS DEPARTMENT OF HEALTH AND ENVIRONMENT AND SHALL BE INSPECTED BY THE CITY. IT IS THE CONTRACTOR'S RESPONSIBILITY TO ASSURE THAT THIS INSPECTION OCCURS.
- 6. LOCATIONS SHOWN FOR PROPOSED WATER LINES ARE APPROXIMATE. VARIATIONS MAY BE MADE, WITH APPROVAL OF THE ENGINEER, TO AVOID CONFLICTS.
- 7. CONTRACTOR TO INSTALL TRACING WIRE ALONG ALL NON-METALLIC WATER MAINS AND SERVICE LINES PER SPECIFICATIONS.
- 8. CONTRACTOR SHALL EXPOSE EXISTING UTILITIES AT LOCATIONS OF POSSIBLE CONFLICT AND POINTS OF CONNECTION PRIOR TO ANY CONSTRUCTION OF NEW UTILITIES.
- 9. WATER LINES SHALL HAVE A MINIMUM COVER OF 42 INCHES. ALL VALVES ON MAINS AND FIRE HYDRANT LEADS SHALL BE WITH VALVE BOX ASSEMBLIES. THE SIZE OF VALVE BOX ASSEMBLY TO BE INSTALLED IS DETERMINED BY THE TYPE AND SIZE OF VALVE. VALVE BOX CAPS SHALL HAVE THE WORD "WATER".
- 10. A MINIMUM HORIZONTAL DISTANCE OF 10 FEET SHALL BE MAINTAINED BETWEEN PARALLEL WATER (MAINS AND SERVICE) AND GRAVITY SANITARY SEWER (MAINS AND SERVICE) LINES. WHEN IT IS NECESSARY FOR ANY WATER LINE TO CROSS A GRAVITY SANITARY SEWER LINE, THE SEWER LINE SHALL BE ENCASED IN CONCRETE OR CONSTRUCTED OF DUCTILE IRON PIPE OR PVC PIPE WITH NO JOINTS WITHIN 10 FEET OF THE CROSSING UNLESS THE WATER LINE IS AT LEAST 2 FEET CLEAR DISTANCE ABOVE THE GRAVITY SANITARY SEWER LINE. WHERE A WATER LINE (SERVICE LINE) CROSSES A NEW (EXISTING) FORCE MAIN (FORCE SERVICE LINE), THE WATER LINE (SERVICE LINE) MUST ALWAYS CROSS OVER THE FORCE MAIN (FORCE SERVICE LINE) WITH A MINIMUM VERTICAL SEPARATION DISTANCE OF 2 FEET. FORCE SEWER LINE (FORCE SERVICE LINE) JOINTS ARE TO BE LOCATED AS FAR AS POSSIBLE FROM THE INTERSECTED WATER LINE.
- 11. RIM ELEVATION ON NYLOPLAST DRAIN BASINS AND CURB INLET IS TO TOP OF GRATE
- 12. ALL NORTHING AND EASTINGS ARE TAKEN FROM CENTER OF STRUCTURE.

PROJ. NO. E22D3222 DSN: MUR MATTHEW J. ROWE
CITY: 32224P DWN: TDA ENGINEER
KS # 29241
1627 SUNFLOWER LANE
SALINA, KANSAS 67401
PH. (785) 823-3400
info@kveeng.com | www.kveeng.com
KAW VALLEY ENGINEERING
KAW VALLEY ENGINEERING, INC., IS AUTHORIZED TO OFFER ENGINEERING SERVICES BY KANSAS STATE CERTIFICATE OF AUTHORIZATION # E-113. EXPIRES 12/31/24



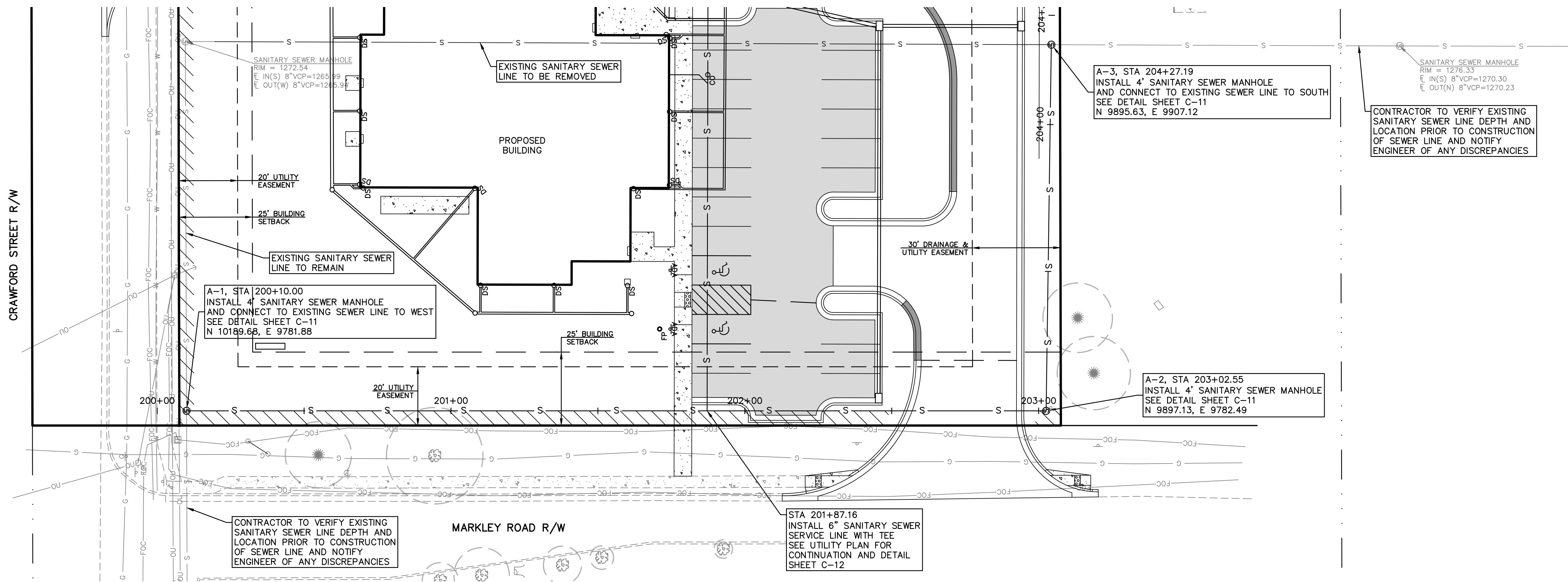
Kansas Certificate of Authority #A-516

CIVIL ENGINEER
KAW Valley Engineering
KS Certificate of Authority #29241
1627 Sunflower Lane
Salina, KS 67401
785-823-3400

Structural Engineer
Bob D. Campbell & Co.
KS Certificate of Authority
#000442
4338 Bellview
Kansas City, MO 64111
816-778-7149

MEP Engineer
PKMR Engineers, Inc.
KS Certificate of Authority
#E-2002020886
13300 W. 89th St.
Lenexa, KS 66215
913-492-2400

JOB NUMBER 22 003



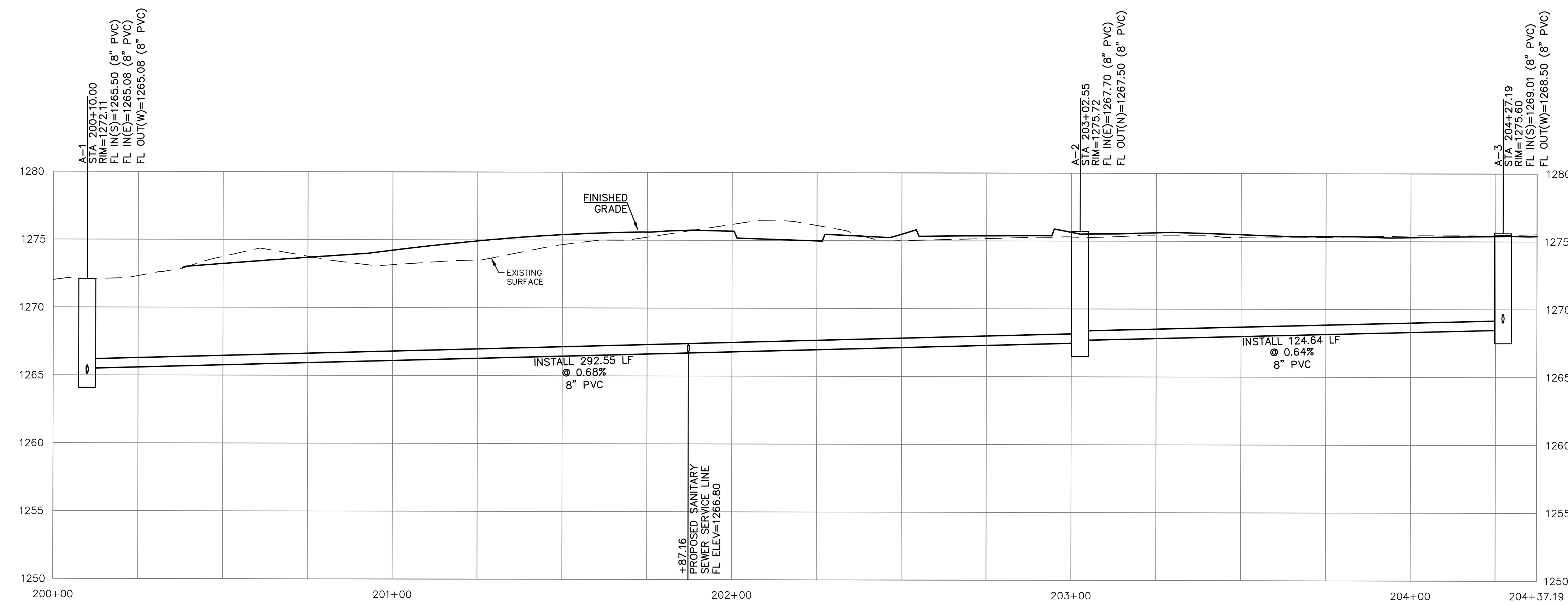
SCALE:
PLAN: 1"=20'
PROFILE: 1"=20' HORIZ.
1"=5' VERT.

SEPARATION OF WATER MAINS AND SANITARY SEWERS:

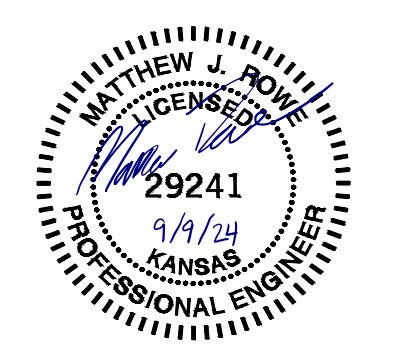
1. A MINIMUM HORIZONTAL DISTANCE OF 10 FEET SHALL BE MAINTAINED BETWEEN WATER (MANS AND SERVICE) AND SANITARY SEWER (MANS AND SERVICE) LINES. AT POINT WHERE SEWERS CROSS WATER MAINS, THE SEWER SHALL BE CONSTRUCTED OF CAST IRON, PLASTIC PIPE WITH NON-JOINTED PLASTIC PIPE, OR PIPE ENCASED IN CONCRETE FOR A DISTANCE OF 10 FEET EACH SIDE OF THE CROSSING AS MEASURED FROM THE OUTSIDE DIAMETER OF THE SEWER LINE (EDGE-TO-EDGE), NOT ITS CENTERLINE, UNLESS THE WATER MAIN IS AT LEAST 2 FEET ABOVE THE SEWER.
2. WHERE A WATER MAIN MUST CROSS A SEWER LINE, MAINTAIN 2 FEET VERTICAL SEPARATION WITH THE WATER MAIN ABOVE THE SEWER.
3. BUILDERS TO MAINTAIN MINIMUM 10' SEPARATION FROM THE OUTSIDE EDGE OF SANITARY SEWER MANHOLES TO THE OUTSIDE EDGE OF WATER SERVICE LINES WHEN RUNNING SERVICE LINES TO HOUSE.

GENERAL NOTES:

1. ALL SANITARY SEWER SERVICE LINE WILL BE AT A MIN 2% GRADE.
2. ALL NORTHING AND EASTING WAS TAKEN FROM CENTER OF STRUCTURE. REFERENCE DETAIL FOR ACTUAL LID LOCATION.



SALINA FIRE STATION #4
EAST CRAWFORD STREET
& MARKLEY ROAD
SALINA, KS 67401
CITY OF SALINA
725 Minnesota Ave., Suite 662 Kansas City, Kansas 66101 Tel: 816-300-4101 Fax: 816-300-4102



BID SET DOCUMENTS

ISSUE DATE 09/05/2024
No Description Date

WSKF, Inc. © 2024

SANITARY SEWER LINE PLAN

C-05

PROJ. NO. E22D3222 DSN: MUR ENGINEER KS # 29241
 CWN: 3222399 DWG: TDA
 1627 SUNFLOWER LANE
 SALINA, KANSAS 67401
 PH. (785) 823-3400
 info@kveeng.com | www.kveeng.com

KAW VALLEY ENGINEERING

KAW VALLEY ENGINEERING, INC., IS AUTHORIZED TO OFFER ENGINEERING SERVICES BY KANSAS STATE CERTIFICATE OF AUTHORIZATION # E-113. EXPIRES 12/31/24



Kansas Certificate of Authority #A-516

CIVIL ENGINEER
KAW Valley Engineering
KS Certificate of Authority #29241
1627 Sunflower Lane
Salina, KS 67401
785-823-3400

Structural Engineer
Bob D. Campbell & Co.
KS Certificate of Authority #000442
4338 Bellview
Kansas City, MO 64111
816-778-7149

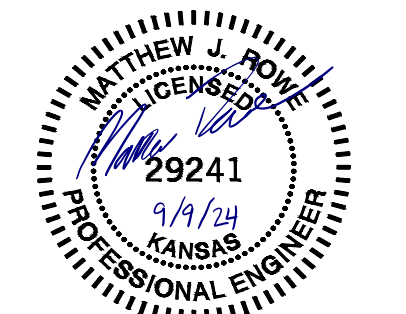
MEP Engineer
PKMR Engineers, Inc.
KS Certificate of Authority #E-2002020886
13300 W. 89th St.
Lenexa, KS 66215
913-492-2400

JOB NUMBER 22003

SALINA FIRE STATION #4

EAST CRAWFORD STREET
& MARKLEY ROAD
SALINA, KS 67401
CITY OF SALINA

725 Minnesota Ave., Suite 662 Kansas City, Kansas 66101 Tel: 816.300.4101 Fax 816.300.4102



BID SET DOCUMENTS

ISSUE DATE 09/05/2024
No. Description Date

PROJ. NO. DATE SHEET 4

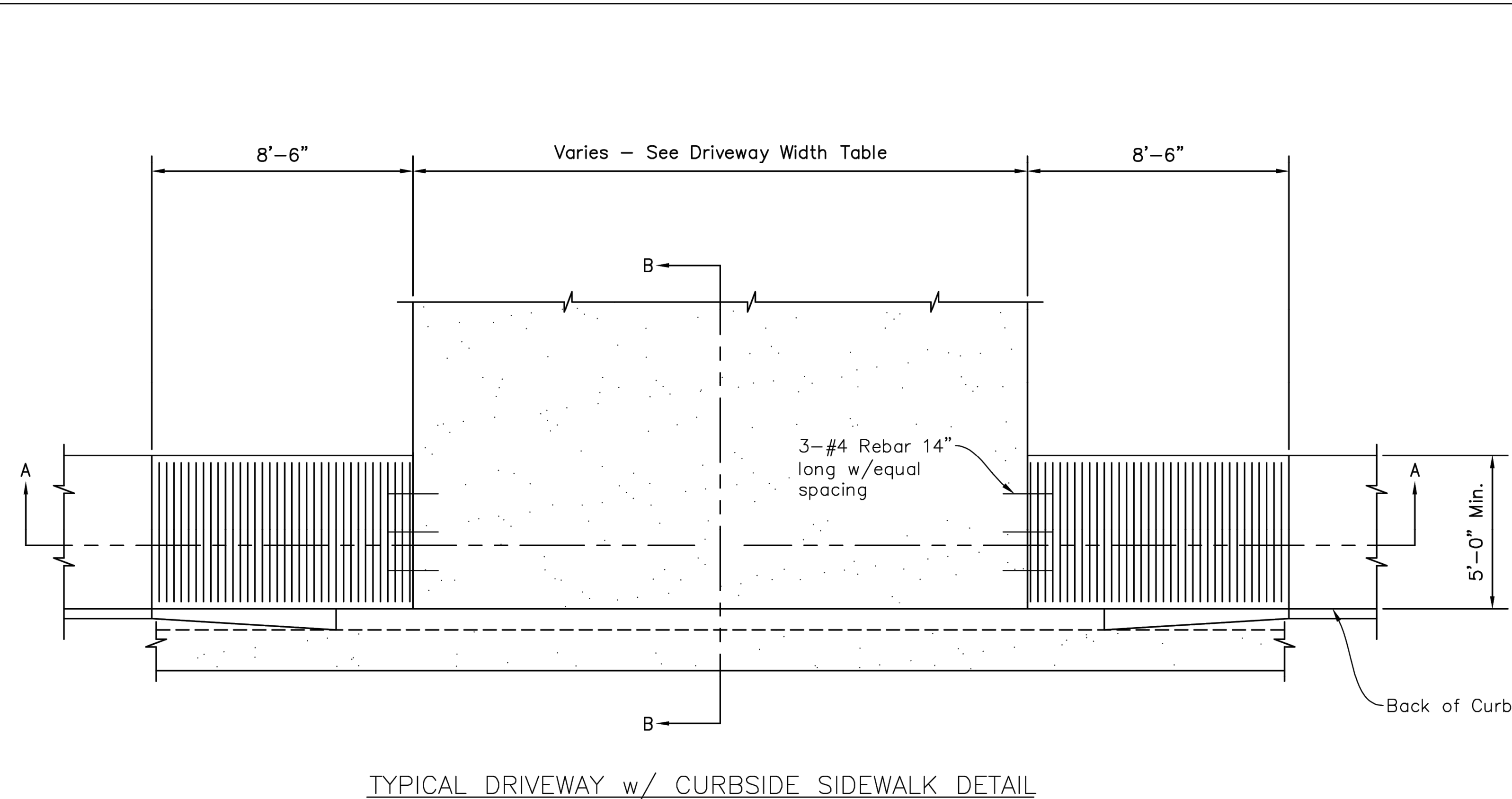
FILENAME: 4_Driveway_Details_1706.dwg

WSKF, Inc. © 2024

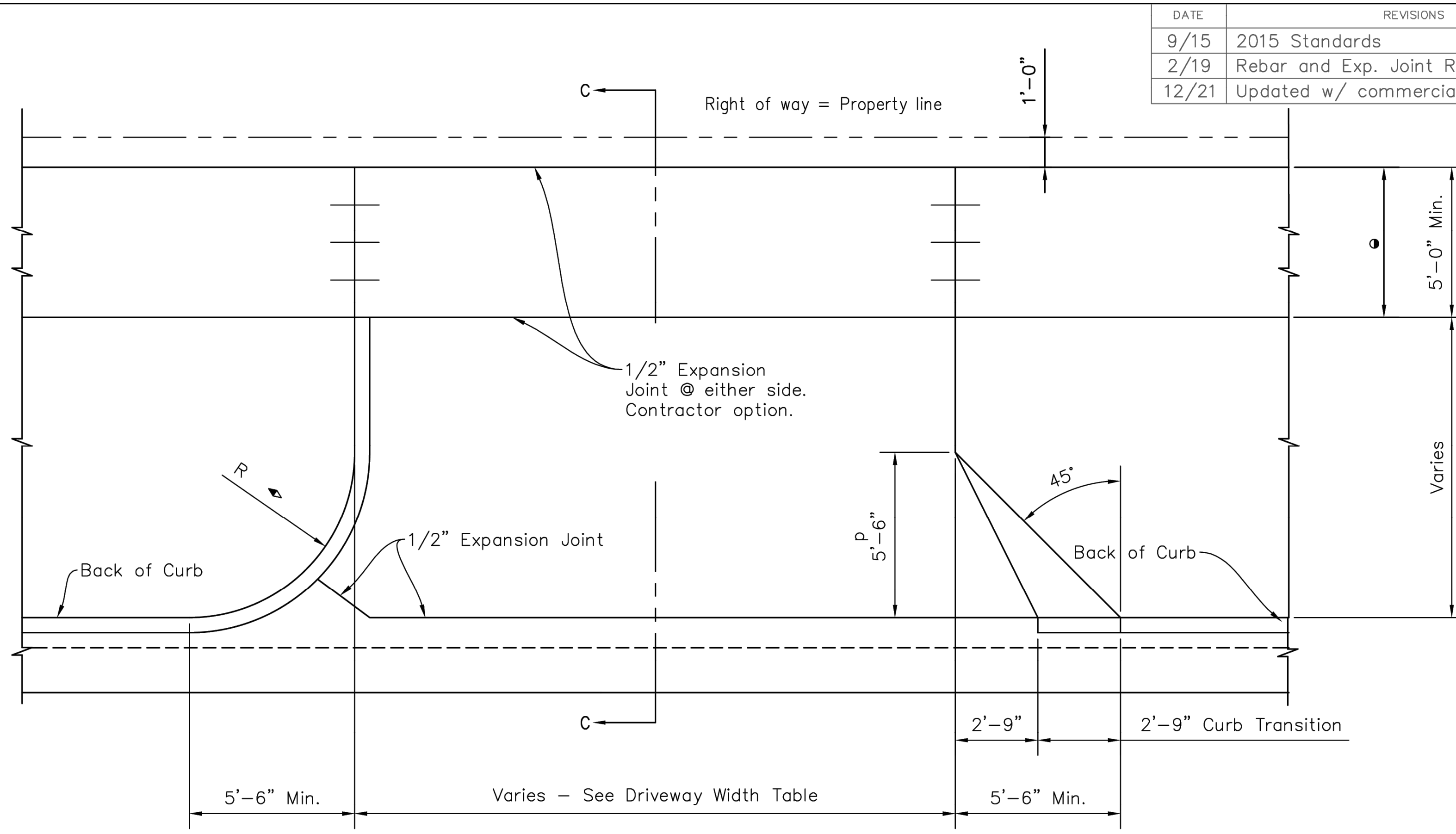
DETAIL SHEET

C-06

DATE	REVISIONS
9/15	2015 Standards
2/19	Rebar and Exp. Joint Revision
12/21	Updated w/ commercial and industrial



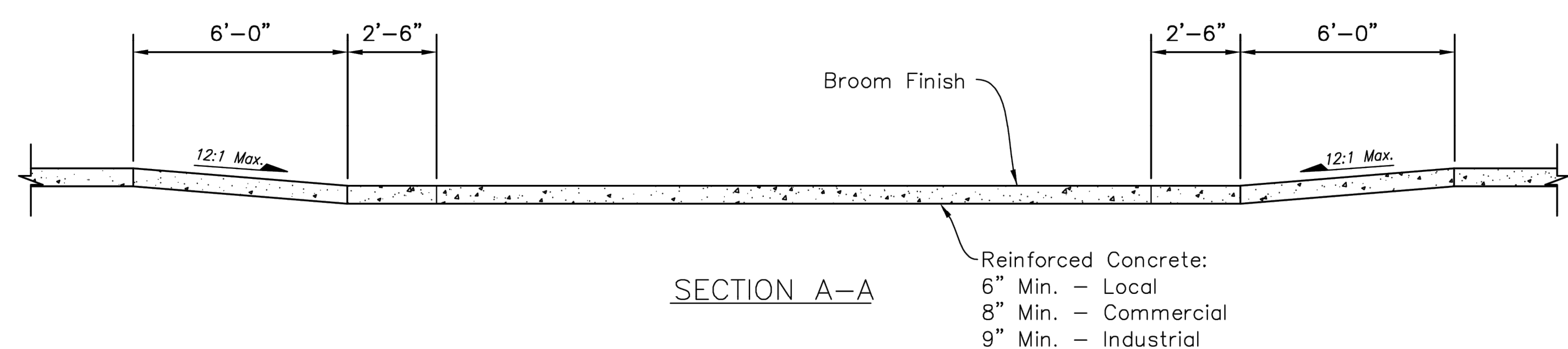
TYPICAL DRIVEWAY w/ CURBSIDE SIDEWALK DETAIL



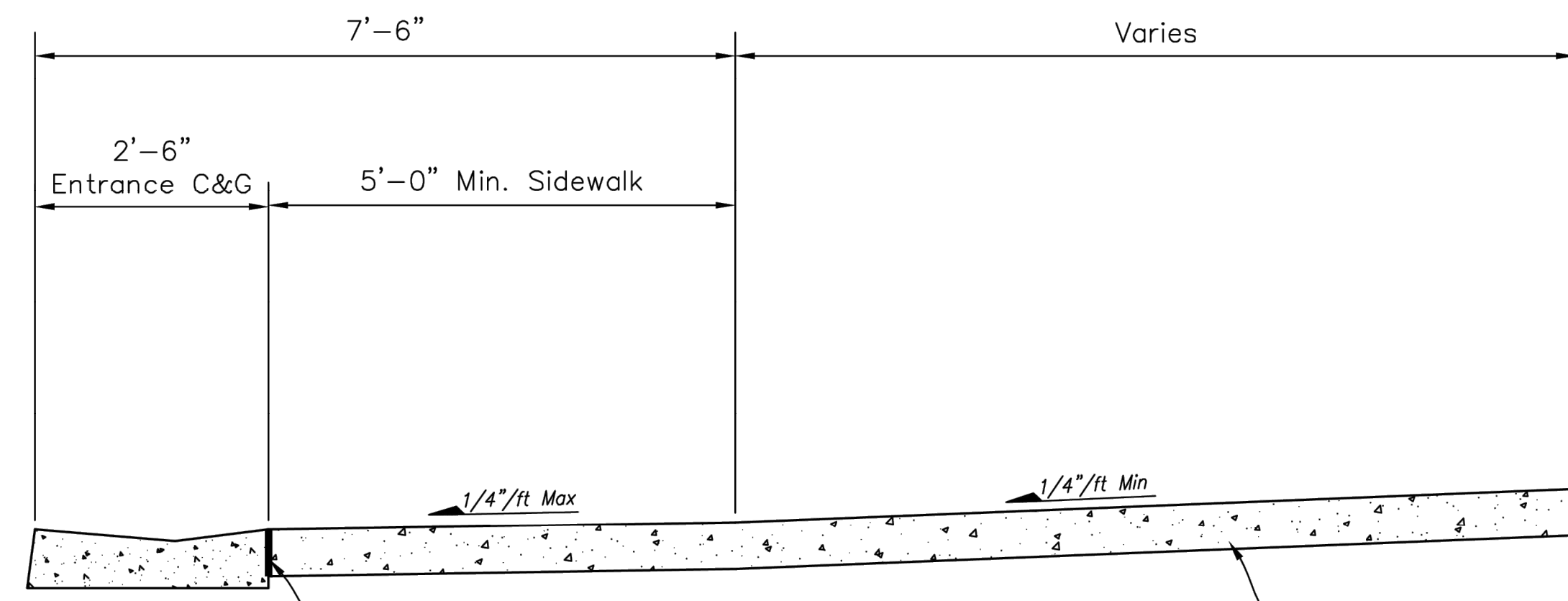
TYPICAL DRIVEWAY w/ PROPERTY LINE SIDEWALK DETAIL

Match adjacent sidewalk width

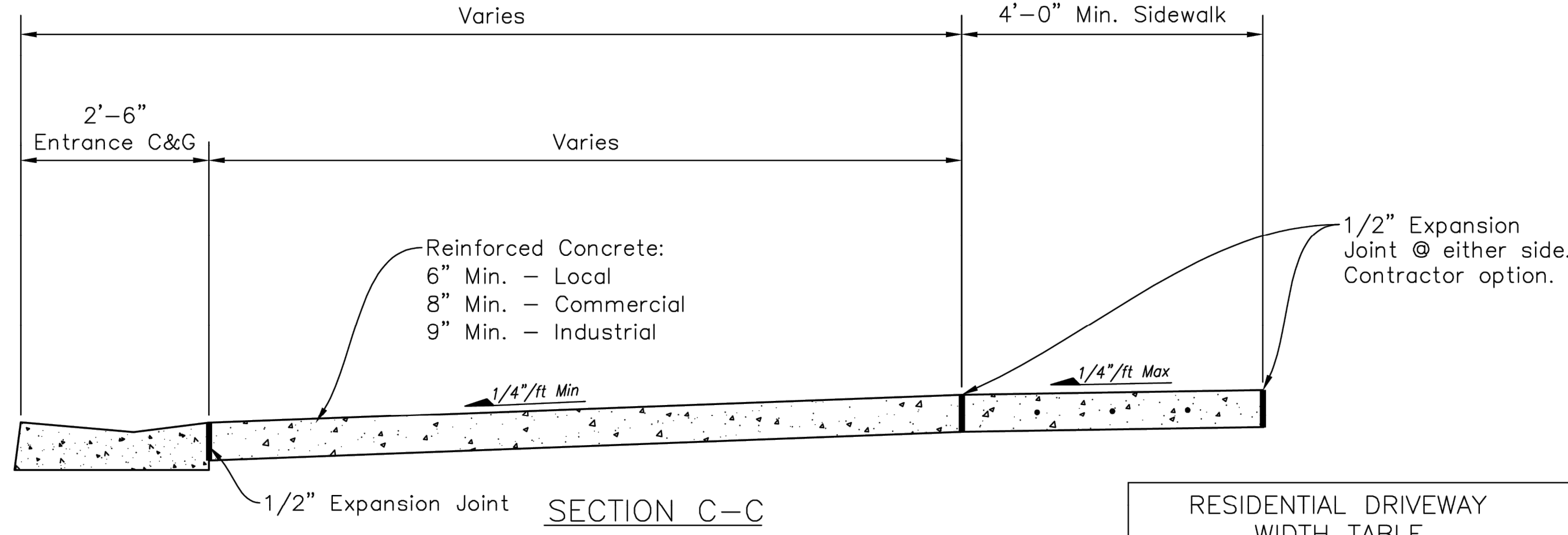
Driveway Type	Radius
Commercial	15' min.
Single Residential	5.5' min.
Double Residential	3' min.



SECTION A-A



SECTION B-B



SECTION C-C

RESIDENTIAL DRIVEWAY WIDTH TABLE	
LOT WIDTH	MAXIMUM DRIVEWAY
50 ft or Less	20 ft
51 ft to 60 ft	24 ft
61 ft to 74 ft	30 ft
75 ft or Greater	30 ft
*with front facing attached 3 car garage or carport	36 ft

Minimum Driveway Width = 8'-0"

GENERAL NOTES:

- All driveway approach construction shall be subject to City inspection at all times by the City Engineer or his representative.
- All driveway approach construction shall be placed normal to center line of roadway in a true and neat manner.
- All driveway approach construction shall be no less than 5'-6" from adjacent property unless with written consent from adjacent property owner.
- Before placement of concrete, the subgrade shall be thoroughly moistened. Concrete may not be placed on frozen or muddy subgrade or when ambient air temperature is 40° F. or less without adequate frost protection.
- All concrete within the right-of-way shall be placed with a minimum 4,000 psi concrete mix design. Upon placement of concrete, the surface shall be broom finished and protected against premature drying with white pigmented curing compound for a period no less than seven (7) days. (When the ambient air temperature is expected to remain at or below 40° F, the white pigmented curing compound will be substituted with thermal blankets).
- Entrance and driveway pavements shall have a uniform thickness:
 - Residential- 6" concrete and reinforced with a minimum 6X6- W1.4xW1.4 welded wire reinforcement. Approximate weight of welded wire mesh = 21 lbs. per 100 sq. ft.
 - Commercial- 8" min. concrete with #4 rebar mat.
 - Industrial- 9" min. concrete with #4 rebar mat.
- Expansion joints will be that of a preformed material, one half (1/2") thickness, and shall be placed wherever new work joins existing work; at ends of all driveway, alley and street returns where returns meet existing construction; and at intervals not to exceed one hundred fifty (150') feet for all straight runs.
- Concrete Pavement shall be jointed w/ 1/8" wide, T/3 depth, contraction joints not to exceed 10' x 10' slabs.

200

CITY OF SALINA, KANSAS
PUBLIC WORKS - ENGINEERING - UTILITIES

STANDARD DETAILS
DRIVEWAY DETAILS

PROJ. NO. DATE SHEET 4

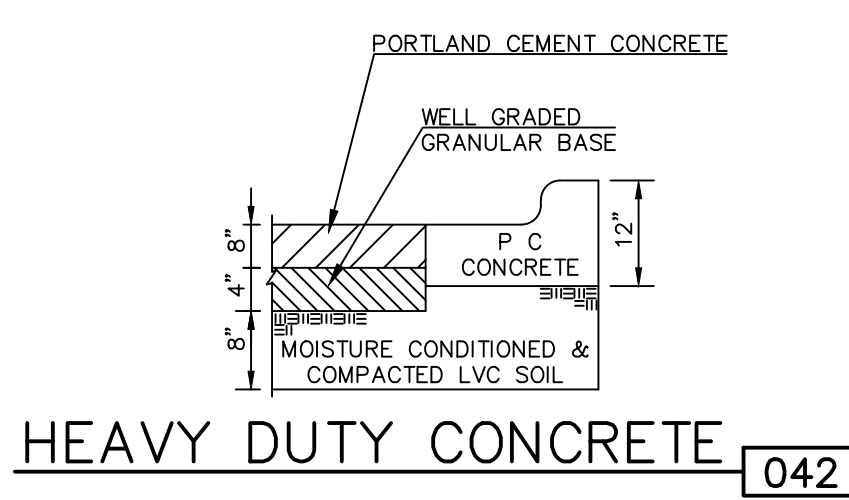
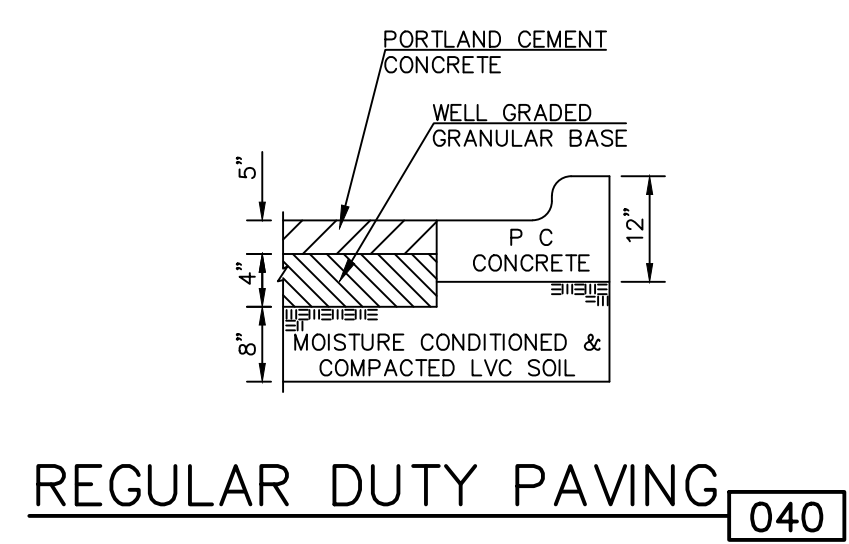
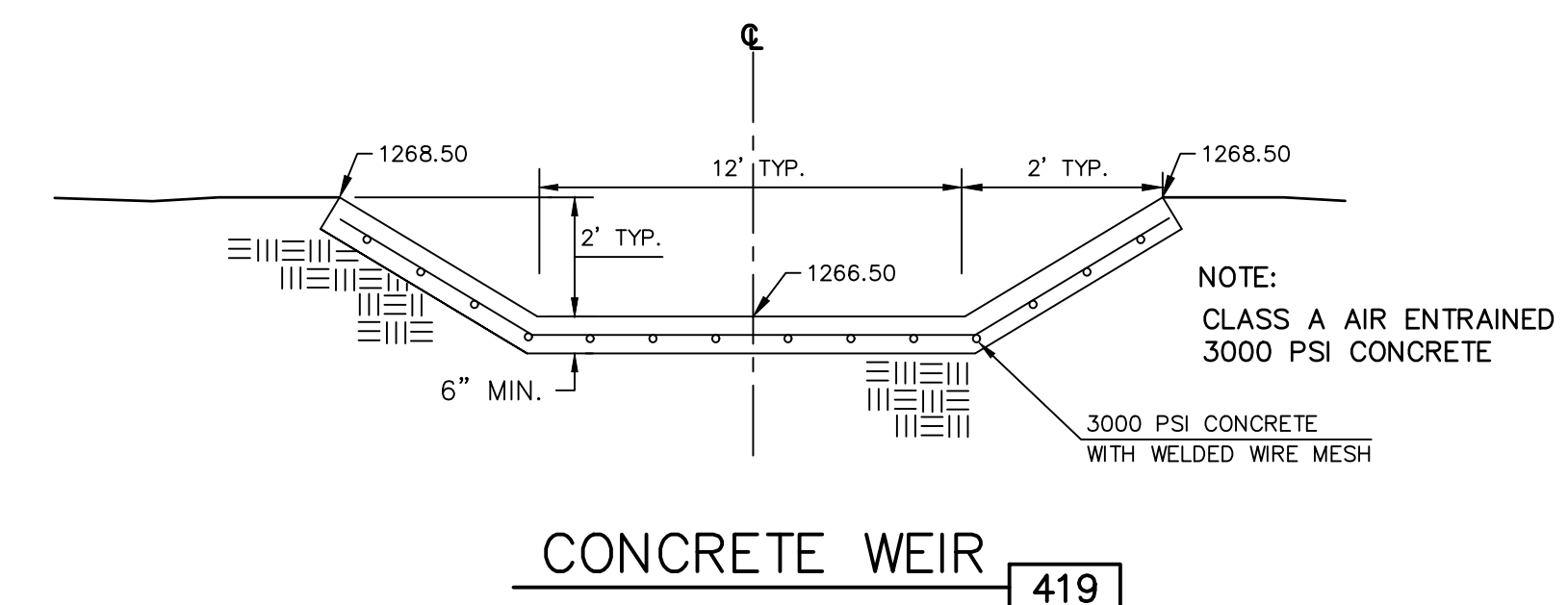
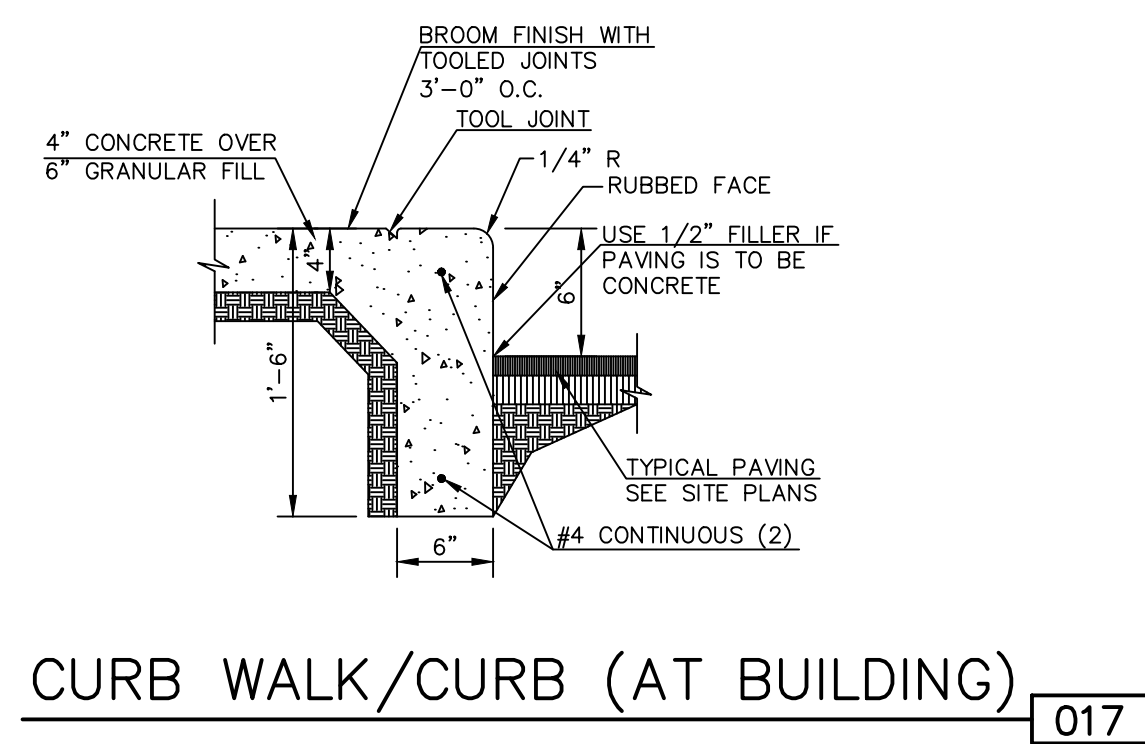
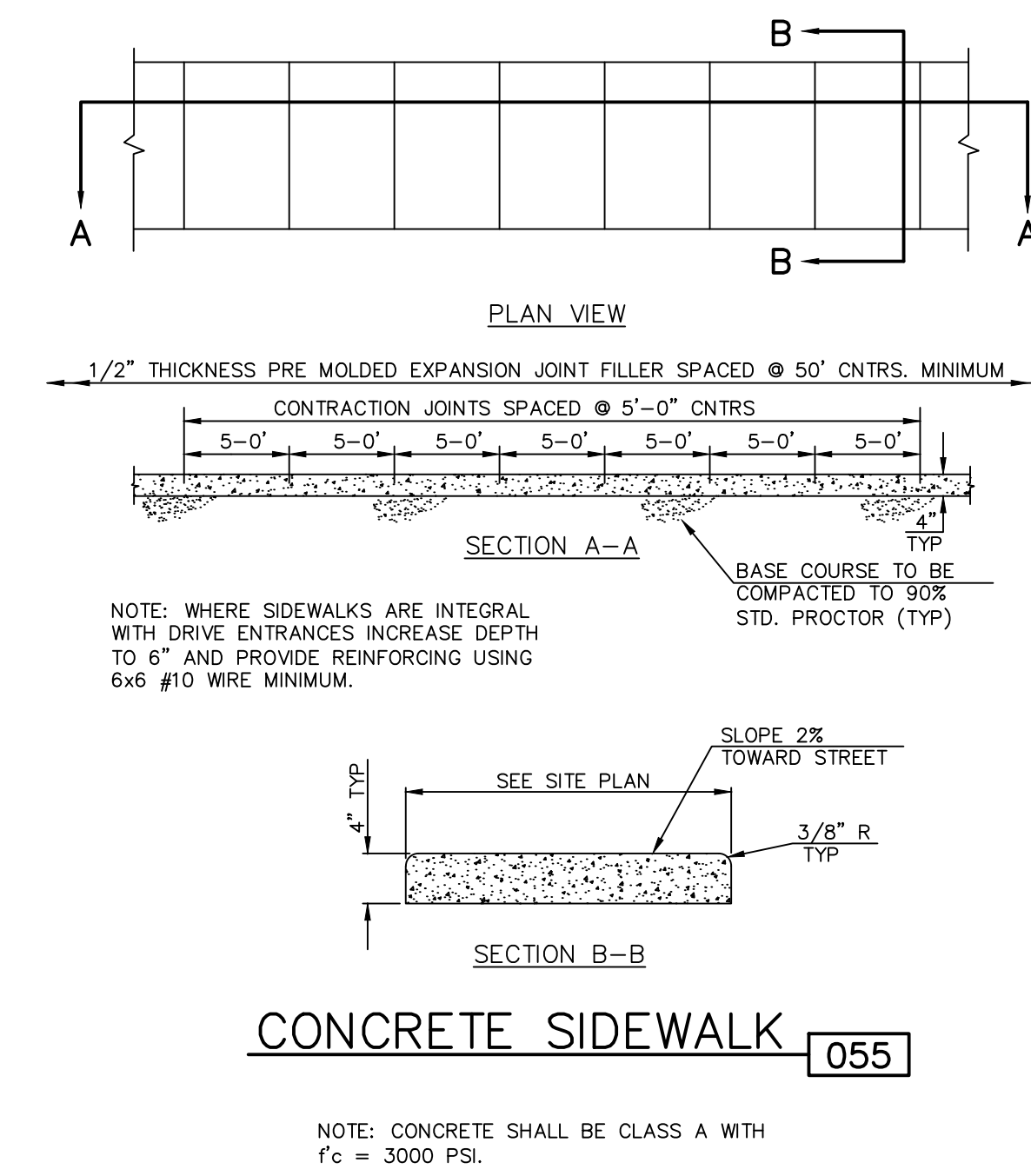
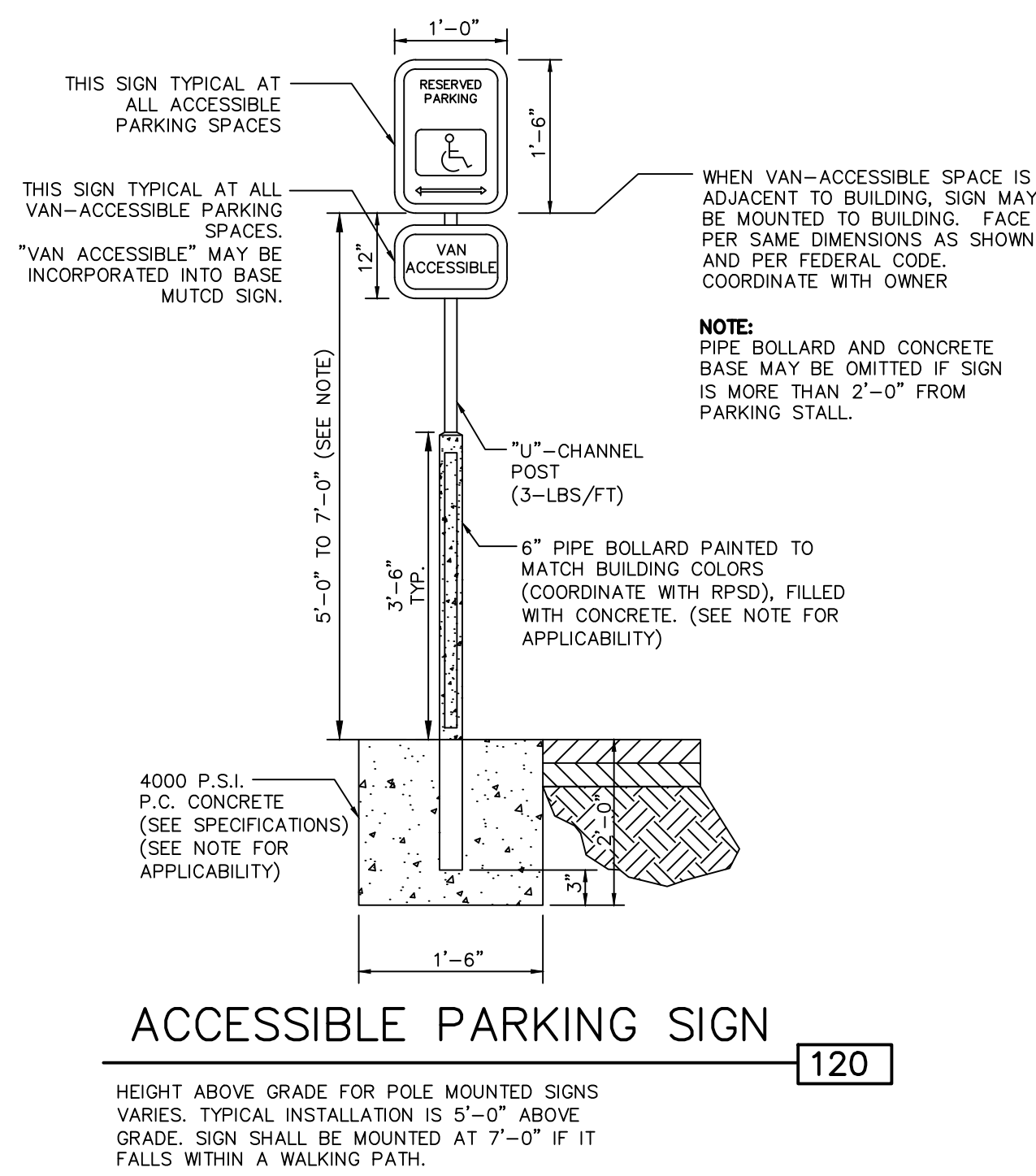
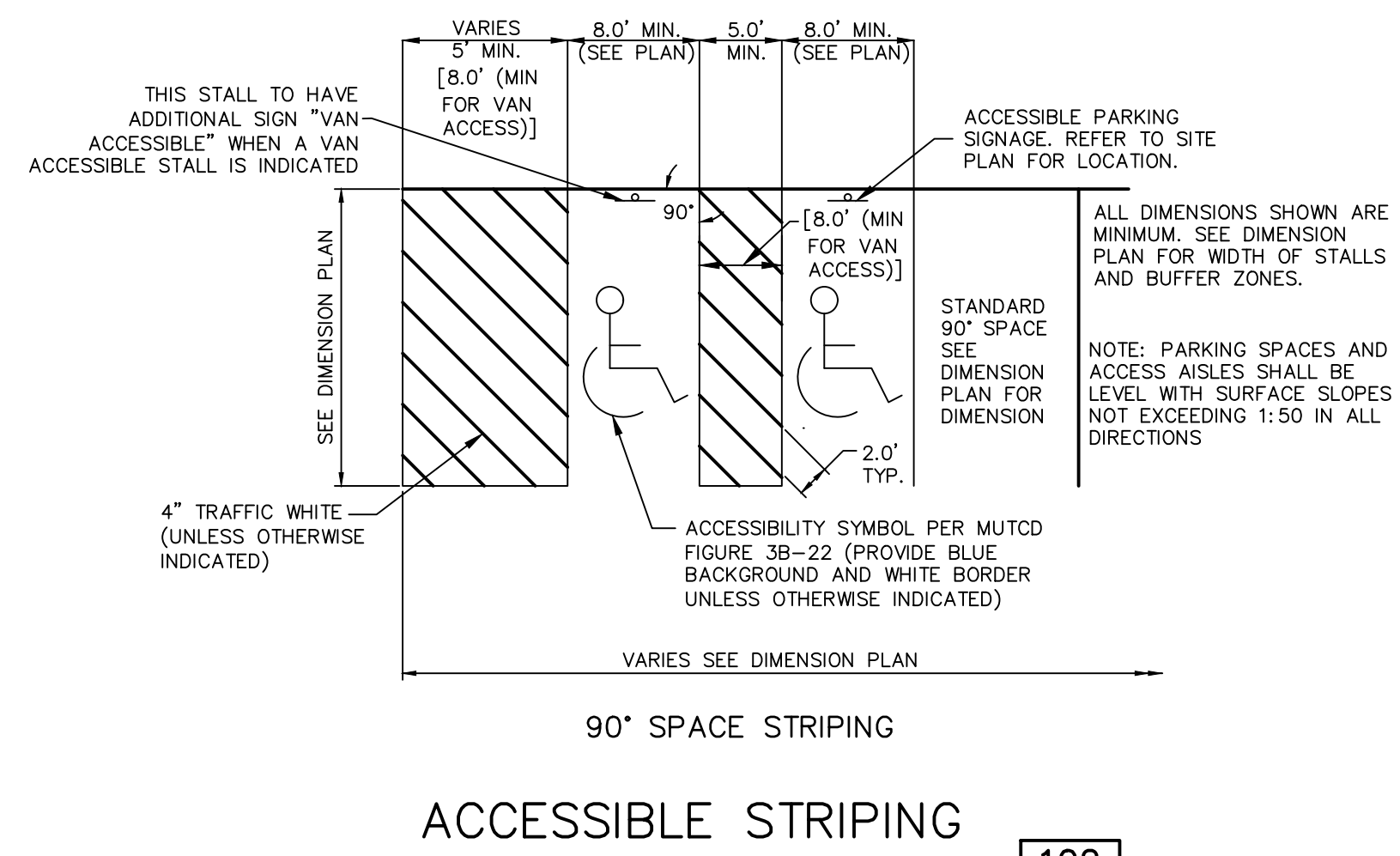
FILENAME: 4_Driveway_Details_1706.dwg

PROJ. NO. E2203222 DSN: MUR ENGINEER KANSAS # 29241
CIN: 3222197 DWN: TDA

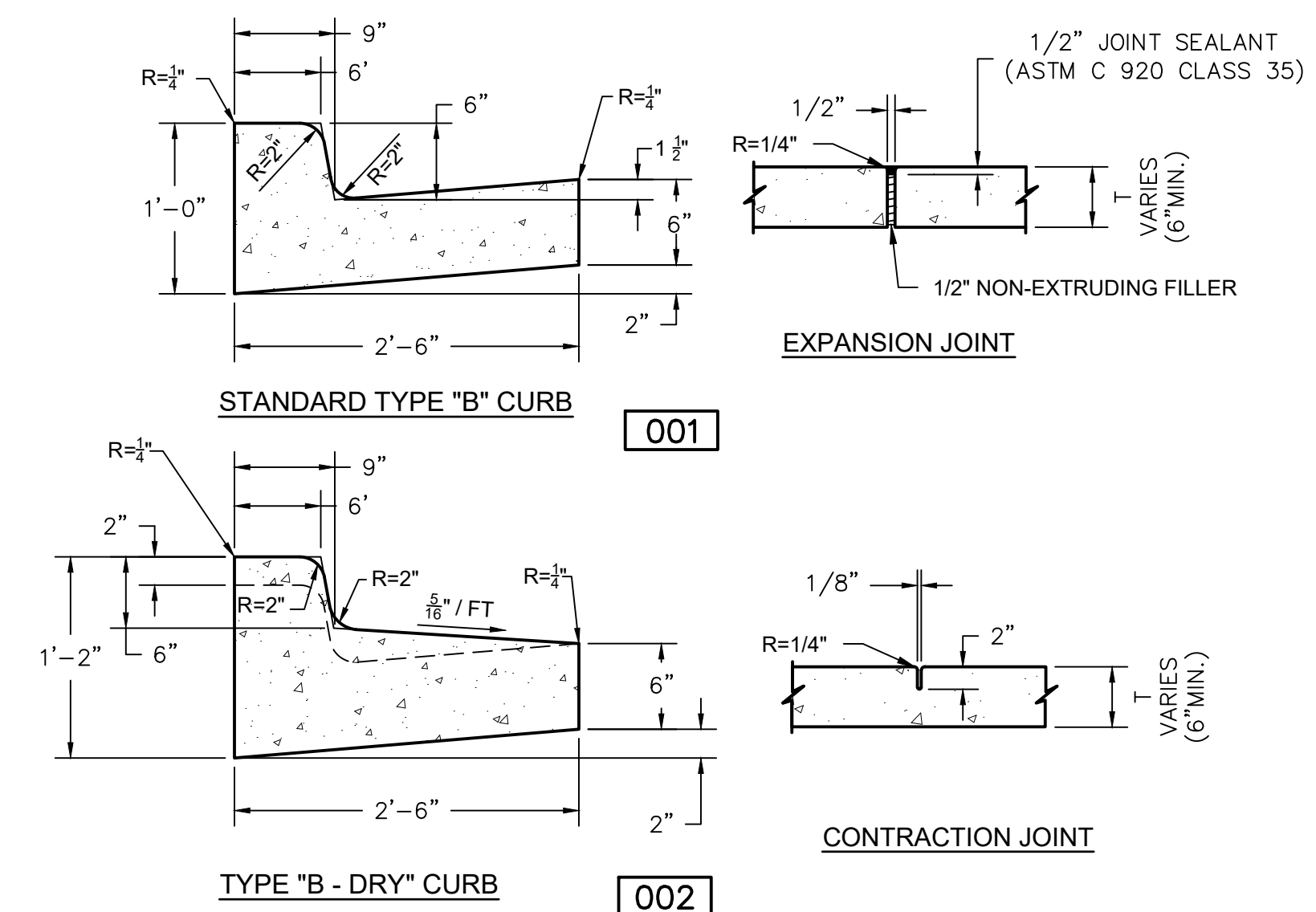
1627 SUNFLOWER LANE
SALINA, KANSAS 67401
PH: (785) 823-3400
info@kveeng.com | www.kveeng.com

KAW VALLEY ENGINEERING

KAW VALLEY ENGINEERING, INC., IS AUTHORIZED TO OFFER ENGINEERING SERVICES BY KANSAS STATE CERTIFICATE OF AUTHORIZATION # E-113. EXPIRES 12/31/24

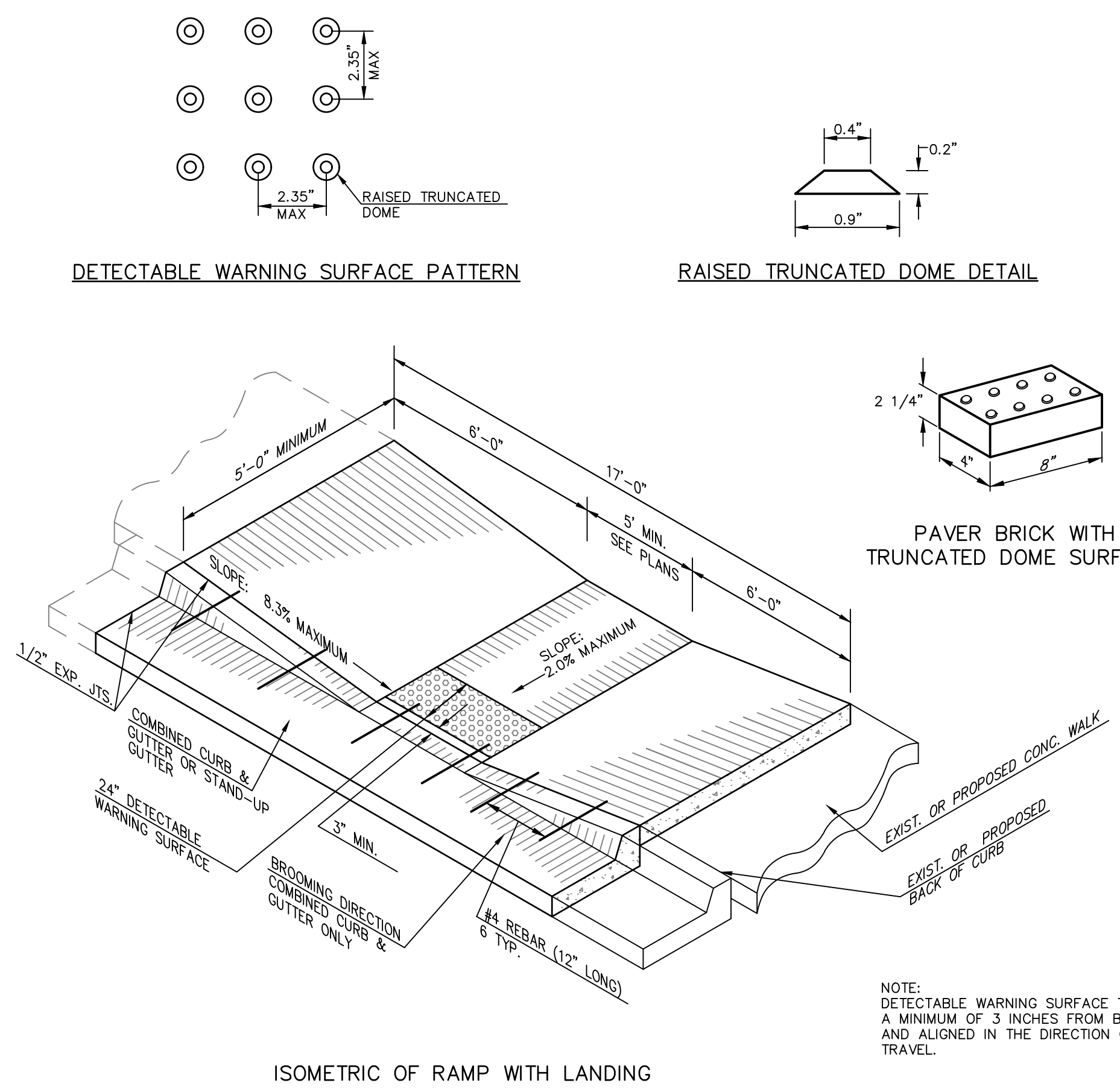


1. FLEXIBLE PAVEMENT SHALL BE IN ACCORDANCE WITH THE LATEST EDITION OF THE KANSAS DEPARTMENT OF TRANSPORTATION STANDARD SPECIFICATIONS FOR STATE ROAD & BRIDGE CONSTRUCTION.
ASPHALT SURFACE COURSE - TYPE BM-2, APWA TYPE 3
ASPHALT BASE COURSE - TYPE BM-2B, APWA TYPE 1
2. PORTLAND CEMENT CONCRETE SHALL HAVE A MINIMUM COMPRESSIVE STRENGTH OF 4000 PSI AT 28 DAYS WITH 6% ENTRAINED AIR ±2% AND SHALL MEET OR EXCEED THE SPECIFICATIONS SET FORTH IN THE LATEST EDITION OF THE KANSAS DEPARTMENT OF TRANSPORTATION STANDARD SPECIFICATIONS FOR STATE ROAD & BRIDGE CONSTRUCTION.
3. HEAVY DUTY CONCRETE IS AN OPTIONAL PAVEMENT FOR DETAIL 041 HEAVY DUTY ASPHALT. WHEN PLANS SPECIFY DETAIL 042 NO ALTERNATES ARE ALLOWED.

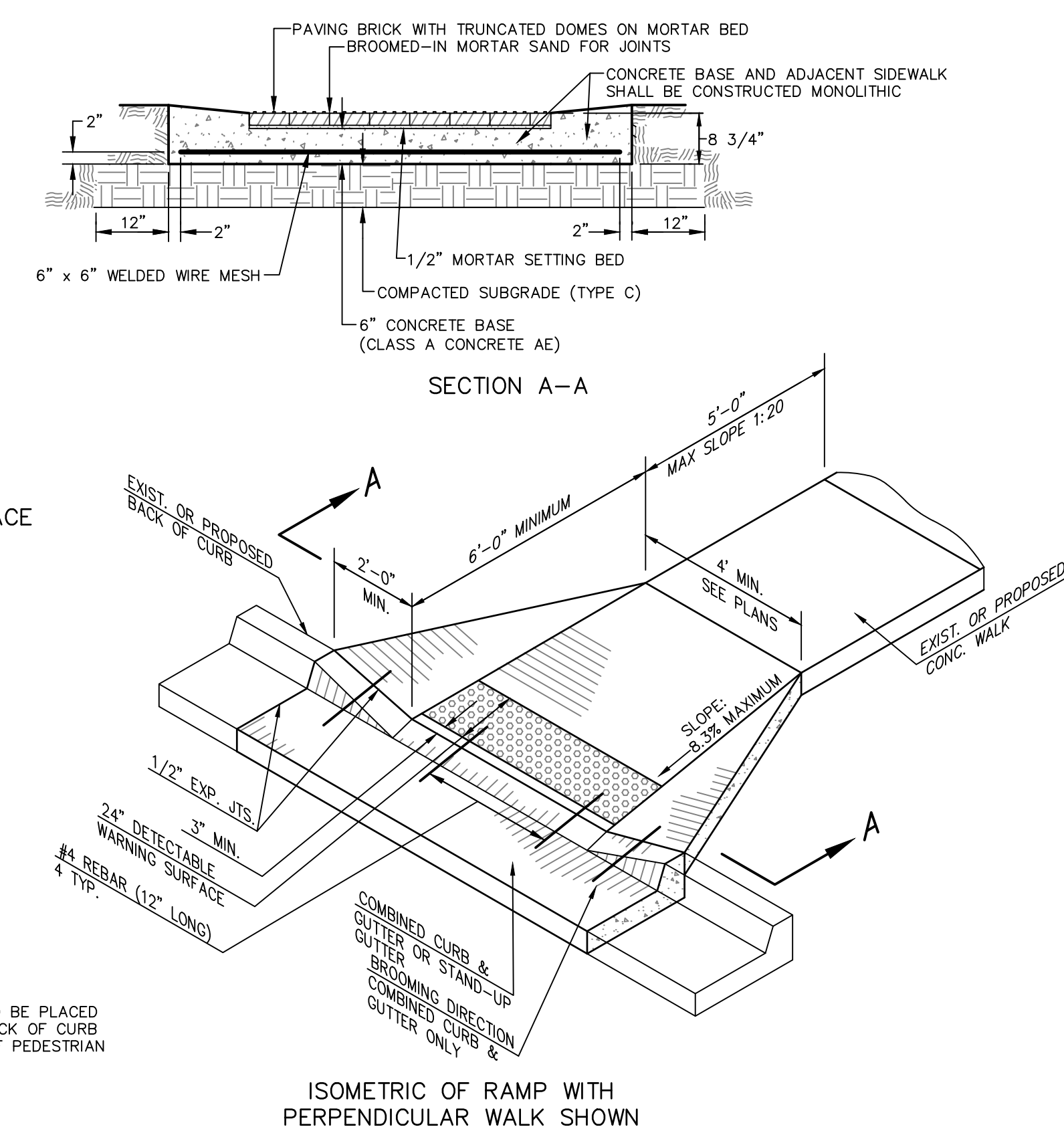


- NOTES:**
1. IN TRANSITIONS, WATER SHALL FLOW FROM THE GUTTER OF TYPE "B" CURB TO THE LIP OF TYPE "B - DRY" CURB AT 0.5% MIN. SLOPE.
 2. GUTTER SLOPE IN HANDICAP ACCESSIBLE STALLS AND ACCESS AISLES SHALL NOT EXCEED 2.0%.
- TYPE "B" CURB & GUTTER NOTES:**
1. 1/2" PREMOLDED EXPANSION JOINTS SHALL BE PLACED 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.
 2. PORTLAND CEMENT CONCRETE SHALL HAVE A MINIMUM COMPRESSIVE STRENGTH OF 4000 PSI AT 28 DAYS WITH 6% ENTRAINED AIR ±2% AND SHALL MEET OR EXCEED THE KANSAS DEPARTMENT OF TRANSPORTATION SPECIFICATIONS.
 3. SEE SIDEWALK RAMP DETAILS FOR TYPICAL SIDEWALK RAMP CURB & GUTTER SECTIONS.
 4. 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 THE CURB TOGETHER WITH CONCRETE PAVING.
 5. ALL REINFORCING SHALL BE 60 ksi EPOXY COATED DEFORMED BARS.
 6. CURBS TO BE CONSTRUCTED ON MINIMUM 6 INCHES OF COMPACTED WELL GRADED BASE ROCK.

CONCRETE CURB



SIDEWALK RAMPS



PROJ. NO. E2203222 DSN: MUR ENGINEER
 CTN: 3222197 DWG: TDA KS # 29241
 1627 SUNFLOWER LANE
 SALINA, KANSAS 67401
 PH. (785) 823-3400
 info@kveeng.com | www.kveeng.com

KV KAW VALLEY ENGINEERING

KAW VALLEY ENGINEERING, INC., IS AUTHORIZED TO OFFER ENGINEERING SERVICES BY KANSAS STATE CERTIFICATE OF AUTHORIZATION # E-113. EXPIRES 12/31/24



Kansas Certificate of Authority #A-516

CIVIL ENGINEER
KAW Valley Engineering
KS Certificate of Authority #29241
1627 Sunflower Lane
Salina, KS 67401
785-823-3400

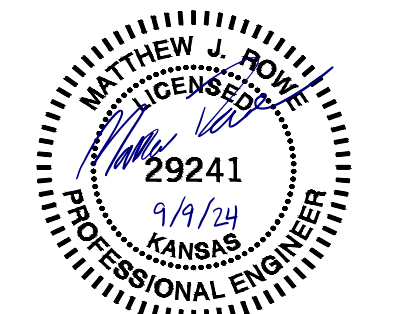
Structural Engineer
Bob D. Campbell & Co.
KS Certificate of Authority #000442
4338 Bellview
Kansas City, MO 64111
816-778-7149

MEP ENGINEER
PKMR Engineers, Inc.
KS Certificate of Authority #E-2002020886
13300 W. 89th St.
Lenexa, KS 66215
913-492-2400

JOB NUMBER 22003

SALINA FIRE STATION #4

EAST CRAWFORD STREET
& MARKLEY ROAD
SALINA, KS 67401
CITY OF SALINA



BID SET DOCUMENTS

ISSUE DATE 09/05/2024

No. Description Date

WSKF, Inc. © 2024

DETAIL SHEET

C-07



Kansas Certificate of Authority #A-516

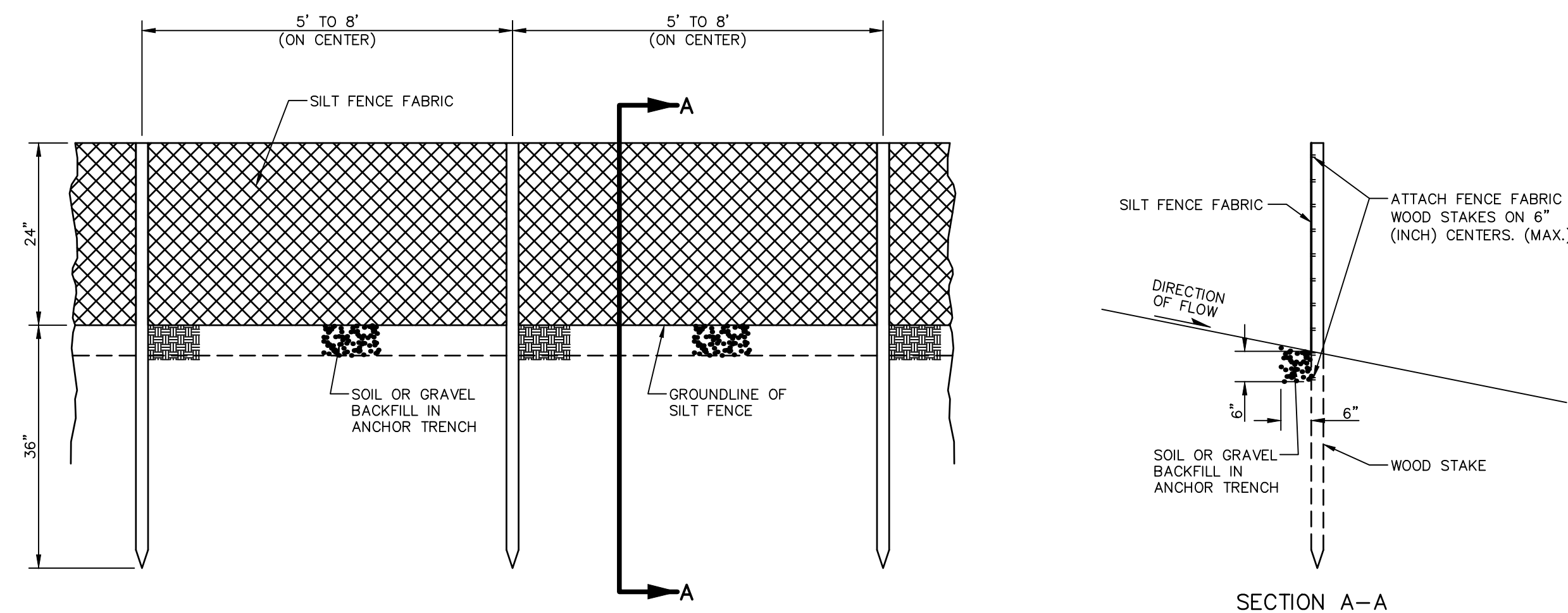
CIVIL ENGINEER
KAW Valley Engineering
KS Certificate of Authority #29241
1627 Sunflower Lane
Salina, KS 67401
785-823-3400

Structural Engineer
Bob D. Campbell & Co.
KS Certificate of Authority #000442
4338 Bellview
Kansas City, MO 64111
816-778-7149

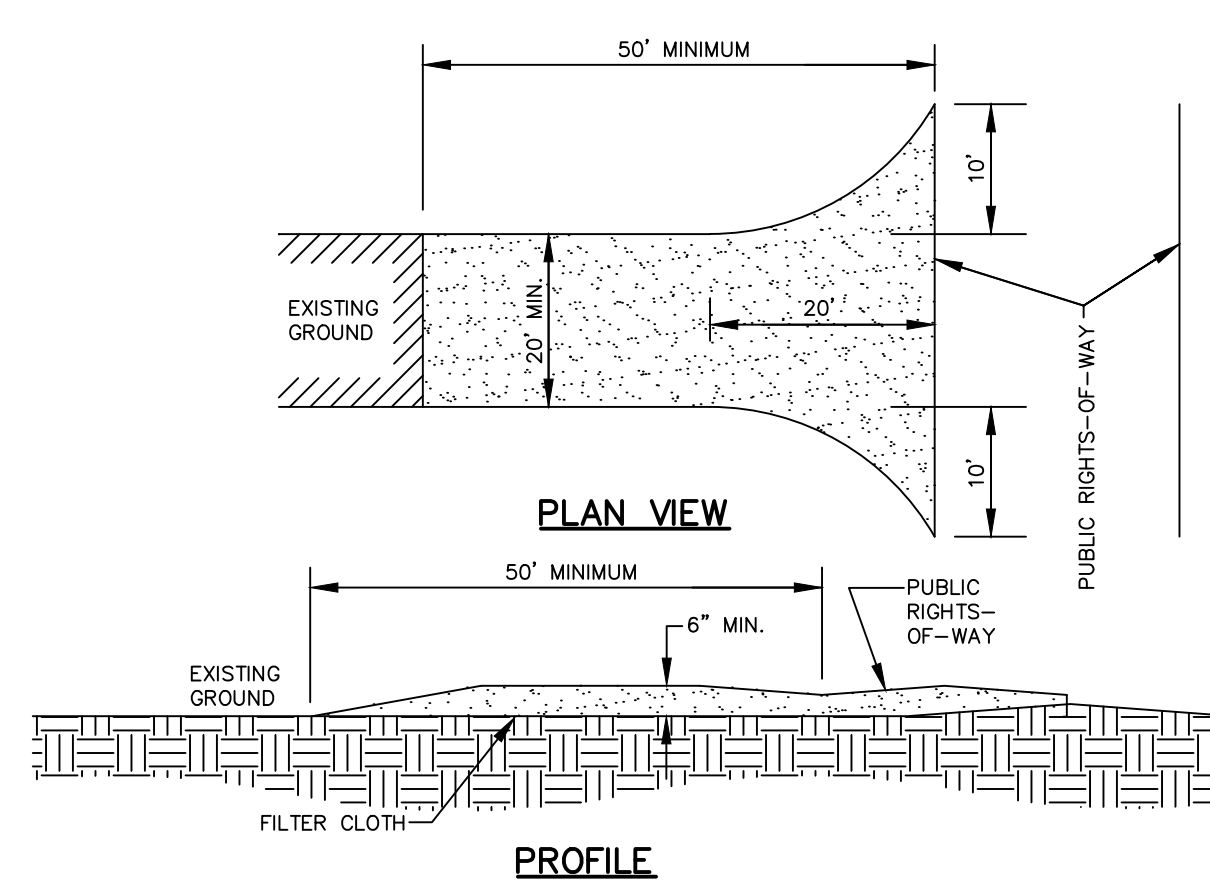
MEP Engineer
PKMR Engineers, Inc.
KS Certificate of Authority #E-2002020886
13300 W. 89th St.
Lenexa, KS 66215
913-492-2400

GENERAL NOTES:

- PROPERTY LINE IS LIMITS OF CONSTRUCTION EXCEPT AS SHOWN.
- 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 DURING CONSTRUCTION.
- ALL SILT SHALL REMAIN ON SITE AND SURROUNDING STREETS 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 AND WEIRS WHERE SEDIMENTATION IS A CONCERN. INLET BARRIERS SHALL BE EITHER BLOCK AND GRAVEL, OR SECURED STRAW BALES, OR SILT FENCE.
- SEDIMENT IS TO BE REMOVED FROM STORM WATER DRAINAGE SYSTEMS.
- RIPRAP IS TO BE INSTALLED AT AREAS OF CONCENTRATED FLOW (I.E. CULVERT OUTLETS).
- CONTRACTOR IS 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 BALES 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 AT ANY POINT WHERE TRAFFIC WILL BE ENTERING OR LEAVING THE SITE AND AS SHOWN ON PLANS.
- AT COMPLETION OF SITE GRADING AND OTHER RELATED CONSTRUCTION ACTIVITIES, ALL DISTURBED AREAS WITHIN THE PROJECT SITE SHALL BE SEEDED USING MULCH OR EQUIVALENT STABILIZING BMP, SODDED, OR LANDSCAPED AS SHOWN ON THE LANDSCAPE PLAN WITHIN 14 DAYS.
- TOPSOIL IS TO BE PLACED IN AREAS UNSUITABLE FOR VEGETATIVE GROWTH.
- STRIP TOPSOIL PRIOR TO EXCAVATION, STOCKPILE AND SPREAD ONTO DISKED SUBGRADE (4" MIN) A THICKNESS OF 4 INCHES.
- ROCK LINING (RIPRAP) SHALL BE DURABLE STONE CONTAINING A COMBINED TOTAL OF NOT MORE THAN 10 PERCENT OF EARTH, SAND, SHALE AND NON-DURABLE ROCK. AT LEAST 60 PERCENT OF THE MASS SHALL BE OF PIECES HAVING A MINIMUM WEIGHT OF 150 POUNDS OR MORE PER CUBIC FOOT.
- 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.
- RIGHT OF WAY TO BE STABILIZED AS REQUIRED BY APWA SECTION 2400.
- EROSION CONTROL IS TO BE PLACED IN PHASING 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 TO BE INSTALLED 1'-0" BEHIND CURB & GUTTER UPON COMPLETION OF BACKFILL OF CURB IN ALL AREAS WHERE SLOPES FROM LOT DRAIN TOWARDS CURB. UPON COMPLETION OF FINAL GRADING THE TOES OF ALL EMBANKMENTS IN EXCESS OF TWO FEET IN HEIGHT WILL HAVE EROSION CONTROL SEDIMENT FENCE INSTALLED.

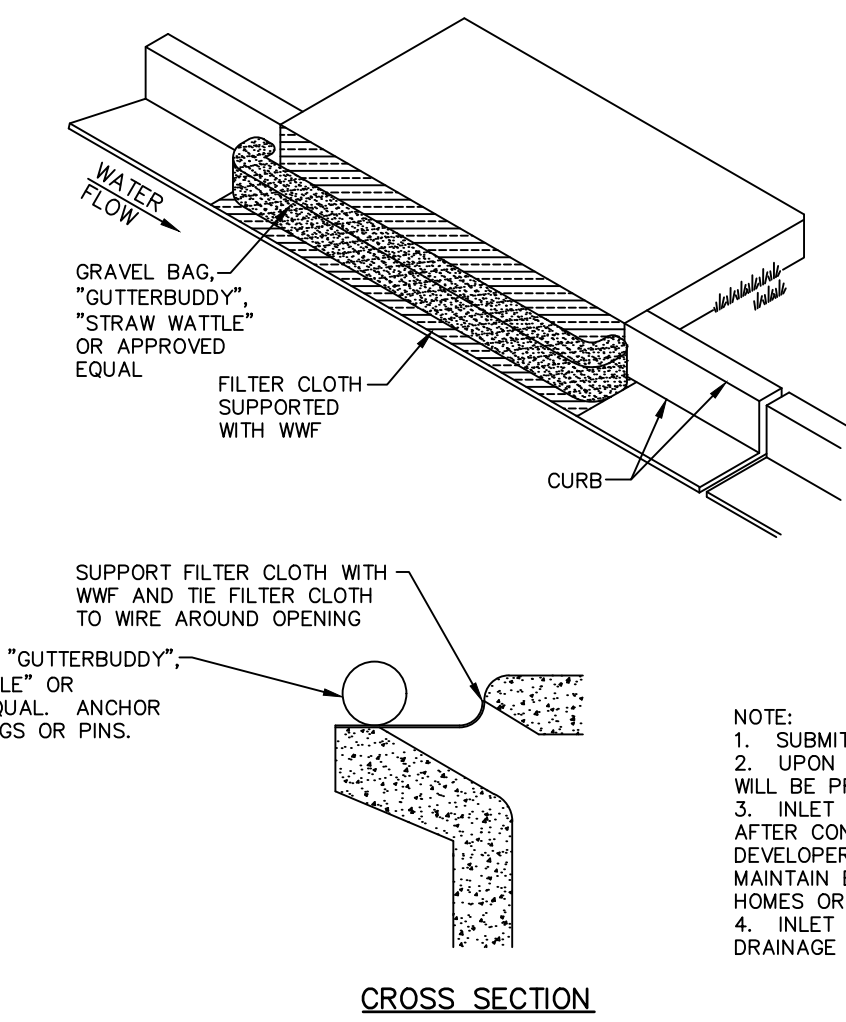


SEDIMENTATION FENCE 812

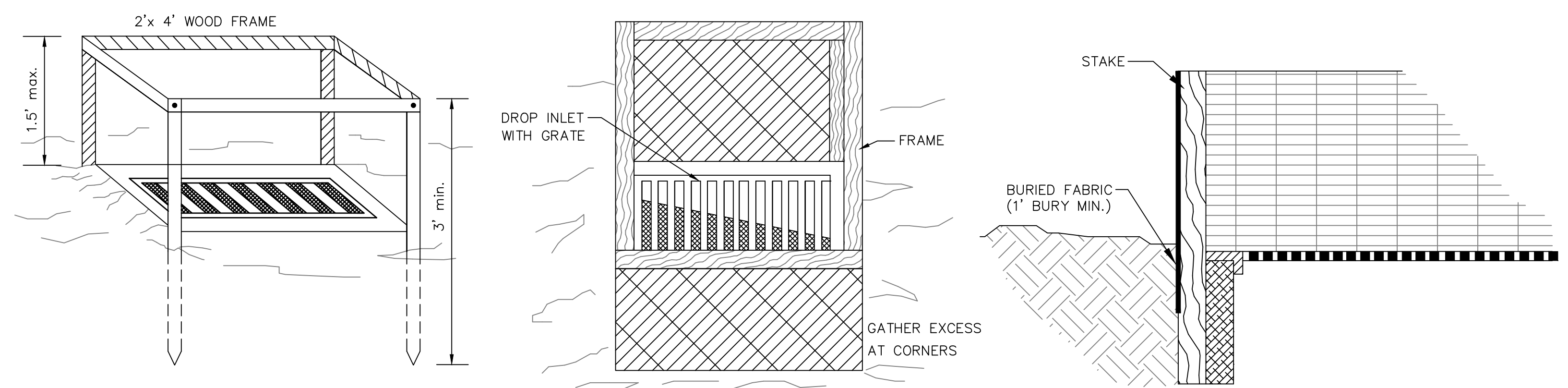


- CONSTRUCTION ENTRANCE NOTES:**
- STONE SIZE - USE 2" STONE OR RECLAIMED OR RECYCLED EQUIVALENT.
 - LENGTH - AS REQUIRED, BUT NOT LESS THAN 50 FEET.
 - THICKNESS - NOT LESS THAN (6) INCHES.
 - WIDTH - TWENTY (20) FOOT MINIMUM, BUT NOT LESS THAN THE FULL WIDTH AT POINTS WHERE INGRESS OR EGRESS OCCURS.
 - FILTER CLOTH - WILL BE PLACED OVER THE ENTIRE AREA PRIOR TO PLACING OF STONE.
 - SURFACE WATER - ALL SURFACE WATER FLOWING OR DIVERTED TOWARD CONSTRUCTION ENTRANCES SHALL BE PIPED ACROSS THE ENTRANCE. IF PIPING IS IMPRACTICAL, A MOUNTABLE BERM WITH 3:1 SLOPES WILL BE PERMITTED.
 - MAINTENANCE - THE ENTRANCE SHALL BE MAINTAINED IN A CONDITION WHICH WILL PREVENT TRACKING OR FLOWING OF SEDIMENT ONTO PUBLIC RIGHTS-OF-WAY. THIS MAY REQUIRE PERIODIC TOP DRESSING WITH ADDITIONAL STONE AS CONDITIONS DEMAND AND REPAIR AND/OR CLEANOUT OF ANY MEASURES USED TO TRAP SEDIMENT. ALL SEDIMENT SPILLED, DROPPED, WASHED OR TRACKED ONTO PUBLIC RIGHTS-OF WAY MUST BE REMOVED IMMEDIATELY.
 - WASHING - WHEELS SHALL BE CLEANED TO REMOVE SEDIMENT PRIOR TO ENTRANCE ONTO PUBLIC RIGHTS-OF-WAY. WHEN WASHING IS REQUIRED, IT SHALL BE DONE ON AN AREA STABILIZED WITH STONE AND WHICH DRAINS INTO AN APPROVED SEDIMENT TRAPPING DEVICE.
 - PERIODIC INSPECTION AND MAINTENANCE SHALL BE PROVIDED AS NEEDED AFTER EACH RAIN.

CONSTRUCTION ENTRANCE 047



INLET FILTER PROTECTION 818



CONSTRUCTION SPECIFICATIONS

- AS SYNTHETIC FABRIC, USE A PERVIOUS SHEET OF NYLON, POLYESTER, OR ETHYLENE YARN - EXTRA STRENGTH - THAT CONTAINS ULTRAVIOLET RAY INHIBITORS AND STABILIZERS. FABRIC SHOULD BE SUFFICIENTLY PEROUS TO PROVIDE ADEQUATE DRAINAGE OF THE TEMPORARY SEDIMENT POOL. BURLAP MAY BE USED FOR SHORT-TERM APPLICATIONS. IT MUST BE REPLACED EVERY 60 DAYS.
 - CUT FABRIC FROM A CONTINUOUS ROLL TO ELIMINATE JOINTS.
 - FOR STAKES, USE 2 X 4 INCH WOOD (PREFERRED) OR EQUIVALENT METAL WITH A MINIMUM LENGTH OF THREE FEET.
 - SPACE STAKES EVENLY AROUND THE PERIMETER OF THE INLET A MAXIMUM OF THREE FEET APART, AND SECURELY DRIVE THEM INTO THE GROUND, APPROXIMATELY 18 INCHES APART.
 - TO PROVIDE NEEDED STABILITY TO THE INSTALLATION, FRAME WITH 2 X 4 INCH WOOD STRIPS AROUND THE CREST TO THE OVERFLOW AREA AT A MINIMUM OF 1.5 FEET ABOVE THE DROP INLET CREST.
 - PLACE THE BOTTOM 12 INCHES OF THE FABRIC IN A TRENCH AND BACKFILL THE TRENCH WITH AT LEAST FOUR INCHES OF CRUSHED STONE OR TWELVE INCHES OF COMPACTED SOIL.
 - FASTEN FABRIC SECURELY TO THE STAKES AND FRAME. JOINTS MUST BE OVERLAPPED TO THE NEXT STAKE.
 - THE TOP OF THE FRAME AND FABRIC MUST BE WELL BELOW THE GROUND ELEVATION DOWNSLOPE FROM THE DROP INLET TO KEEP RUNOFF FROM BYPASSING THE INLET. IT MAY BE NECESSARY TO BUILD A TEMPORARY DIKE ON THE DOWN SLOPE SIDE OF THE STRUCTURE TO PREVENT BYPASS FLOW. MATERIAL FROM WITHIN THE SEDIMENT POOL MAY BE USED FOR DIKING.
- MAINTENANCE**
- INSPECT THE FABRIC BARRIER AFTER EACH RAIN AND MAKE REPAIRS AS NEEDED.
 - REMOVE SEDIMENT FROM THE POOL AREA NECESSARY TO PROVIDE ADEQUATE STORAGE VOLUME FOR THE NEXT RAIN EVENT. TAKE CARE NOT TO DAMAGE OR UNDERCUT THE FABRIC DURING SEDIMENT REMOVAL.
 - WHEN THE CONTRIBUTING DRAINAGE AREA HAS BEEN ADEQUATELY STABILIZED, REMOVE ALL MATERIALS AND ANY UNSTABLE SEDIMENT AND DISPOSE OF THEM PROPERLY. BRING THE DISTURBED AREA TO THE GRADE OF THE DROP INLET AND SMOOTH AND COMPACT IT. APPROPRIATELY STABILIZE ALL BARE AREAS AROUND THE INLET.

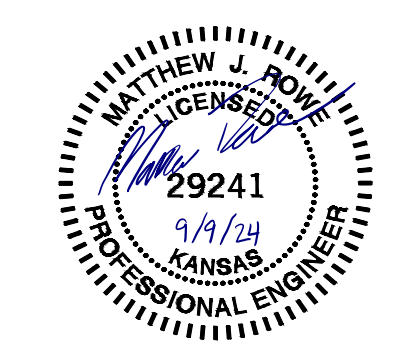
TEMPORARY DROP INLET PROTECTION 816

PROJ. NO. E2203222 DSN: MUR ENGINEER KAW VALLEY ENGINEERING
 DTN: 3222197 DWG: TDA K.S. # 29241
 1627 SUNFLOWER LANE
 SALINA, KANSAS 67401
 PH. (785) 823-3400
 info@kveeng.com | www.kveeng.com

KAW VALLEY ENGINEERING, INC. IS AUTHORIZED TO OFFER ENGINEERING SERVICES BY KANSAS STATE CERTIFICATE OF AUTHORIZATION # E-113. EXPIRES 12/31/24

JOB NUMBER 22003

SALINA FIRE STATION #4
 EAST CRAWFORD STREET
 & MARKLEY ROAD
 SALINA, KS 67401
 CITY OF SALINA



ISSUE DATE 09/09/2024

No.	Description	Date

WSKF, Inc. © 2024

DETAIL SHEET

C-08



Kansas Certificate of Authority #A-516

CIVIL ENGINEER
KAW Valley Engineering
KS Certificate of Authority #29241
1627 Sunflower Lane
Salina, KS 67401
785-823-3400

Structural Engineer
Bob D. Campbell & Co.
KS Certificate of Authority #000442
4338 Bellview
Kansas City, MO 64111
816-778-7149

MEP Engineer
PKMR Engineers, Inc.
KS Certificate of Authority #E-2002020886
13300 W. 89th St.
Lenexa, KS 66215
913-492-2400

JOB NUMBER 22003

NYLOPLAST TURF TRAFFIC INSTALLATION

12" - 36" DRAIN BASIN

18" MIN THICKNESS
8" MIN THICKNESS GUIDELINE
MINIMUM PIPE BURIAL DEPTH PER PIPE MANUFACTURER RECOMMENDATION
4" MIN ON 12" - 24"
6" MIN ON 30" & 36"

12" - 30" INLINE DRAIN

18" MIN THICKNESS
8" MIN THICKNESS GUIDELINE
MIN DEPTH FOR TURF (2)
BOTTOM FLANGE OF FRAME MUST BE SUPPORTED BY CONCRETE COLLAR

TRAFFIC LOADS: CONCRETE SLAB DIMENSIONS ARE FOR GUIDELINE PURPOSES ONLY. ACTUAL CONCRETE SLAB MUST BE DESIGNED TAKING INTO CONSIDERATION LOCAL SOIL CONDITIONS, TRAFFIC LOADING, & OTHER APPLICABLE DESIGN FACTORS.

THE BACKFILL MATERIAL SHALL BE CRUSHED STONE OR OTHER GRANULAR MATERIAL MEETING THE REQUIREMENTS OF CLASS I, CLASS II, OR CLASS III MATERIAL AS DEFINED IN ASTM D2321. BEDDING & BACKFILL FOR SURFACE DRAINAGE INLETS SHALL BE PLACED & COMPACTED UNIFORMLY IN ACCORDANCE WITH ASTM D2321.

404

THIS PRINT DISCLOSES SUBJECT MATTER IN WHICH NYLOPLAST HAS PROPRIETARY RIGHTS. THE RECEIPT OR POSSESSION OF THIS PRINT DOES NOT CONFER, TRANSFER, OR LICENSE THE USE OF THE DESIGN OR TECHNICAL INFORMATION SHOWN HEREIN. REPRODUCTION OF THIS PRINT OR ANY INFORMATION CONTAINED HEREIN, OR MANUFACTURE OF ANY ARTICLE HEREFROM, FOR THE DISCLOSURE TO OTHERS IS FORBIDDEN, EXCEPT BY SPECIFIC WRITTEN PERMISSION FROM NYLOPLAST.

©2013 NYLOPLAST

DRAWN BY	EBC	MATERIAL	
DATE	01-05-09		
REVISED BY	NMH	PROJECT NO./NAME	
DATE	06-12-18		
DWG SIZE	A	SCALE	1:25
		SHEET	1 OF 1

3130 VERONA AVE BUFORD, GA 30518 PHN (770) 932-2443 FAX (770) 932-2490 www.nyloplast-us.com	Nyloplast	TITLE	DRAIN BASIN & INLINE DRAIN TURF TRAFFIC INSTALLATION
		DWG NO.	7001-110-340
		REV	G

NYLOPLAST 8" INLINE DRAIN: 2708AG __ X

① DUCTILE IRON GRATE
② CONCRETE POUR RING
③ VARIOUS TYPES OF INLET & OUTLET ADAPTERS AVAILABLE: 4" - 8" FOR CORRUGATED HDPE (ADS N-12, ADS SINGLE WALL, HANCOR DUAL WALL), SDR 35, SCH 40 DWV, CORRUGATED & RIBBED PVC
CONCRETE WALKWAY OR DECK
④ WATERTIGHT JOINT (CORRUGATED HDPE SHOWN)

INVERT ACCORDING TO PLANS/TAKE OFF

THE BACKFILL MATERIAL SHALL BE CRUSHED STONE OR OTHER GRANULAR MATERIAL MEETING THE REQUIREMENTS OF CLASS II MATERIAL AS DEFINED IN ASTM D2321. BEDDING & BACKFILL FOR SURFACE DRAINAGE INLETS SHALL BE PLACED & COMPACTED UNIFORMLY IN ACCORDANCE WITH ASTM D2321.

405

THIS PRINT DISCLOSES SUBJECT MATTER IN WHICH NYLOPLAST HAS PROPRIETARY RIGHTS. THE RECEIPT OR POSSESSION OF THIS PRINT DOES NOT CONFER, TRANSFER, OR LICENSE THE USE OF THE DESIGN OR TECHNICAL INFORMATION SHOWN HEREIN. REPRODUCTION OF THIS PRINT OR ANY INFORMATION CONTAINED HEREIN, OR MANUFACTURE OF ANY ARTICLE HEREFROM, FOR THE DISCLOSURE TO OTHERS IS FORBIDDEN, EXCEPT BY SPECIFIC WRITTEN PERMISSION FROM NYLOPLAST.

©2013 NYLOPLAST

DRAWN BY	EBC	MATERIAL	
DATE	11-15-06		
APPD BY	CJA	PROJECT NO./NAME	
DATE	11-15-06		
DWG SIZE	A	SCALE	1:16
		SHEET	1 OF 1

3130 VERONA AVE BUFORD, GA 30518 PHN (770) 932-2443 FAX (770) 932-2490 www.nyloplast-us.com	Nyloplast	TITLE	8 IN INLINE DRAIN QUICK SPEC INSTALLATION DETAIL
		DWG NO.	7003-110-033
		REV	B

NYLOPLAST 2 FT X 3 FT CURB INLET STRUCTURE: 30 __ AGR __ X

CONCRETE CURB & GUTTER
ASPHALT
18" MIN WIDTH GUIDELINE
8" MIN THICKNESS GUIDELINE
TRAFFIC LOADS: CONCRETE SLAB DIMENSIONS ARE FOR GUIDELINE PURPOSES ONLY. ACTUAL CONCRETE SLAB MUST BE DESIGNED TAKING INTO CONSIDERATION LOCAL SOIL CONDITIONS, TRAFFIC LOADING, & OTHER APPLICABLE DESIGN FACTORS.

(1) DUCTILE IRON FRAME, GRATE, & HOOD
(1) INTEGRATED DUCTILE IRON BASE PLATE TO MATCH BASIN O.D.
(2) VARIABLE SUMP DEPTH ACCORDING TO PLANS (6" MIN ON 18" & 24", 10" MIN ON 30" BASED ON MANUFACTURING REQ.)
4" MIN ON 18" & 24"
6" MIN ON 30"

(3) VARIOUS TYPES OF INLET & OUTLET ADAPTERS AVAILABLE: 4" - 30" FOR CORRUGATED HDPE (ADS N-12/HANCOR DUAL WALL, ADS/HANCOR SINGLE WALL), N-12 HP, PVC SEWER (EX: SDR 35), PVC DWV (EX: SCH 40), PVC C900/C905, CORRUGATED & RIBBED PVC

THE BACKFILL MATERIAL SHALL BE CRUSHED STONE OR OTHER GRANULAR MATERIAL MEETING THE REQUIREMENTS OF CLASS I, CLASS II, OR CLASS III MATERIAL AS DEFINED IN ASTM D2321. BEDDING & BACKFILL FOR SURFACE DRAINAGE INLETS SHALL BE PLACED & COMPACTED UNIFORMLY IN ACCORDANCE WITH ASTM D2321.

402A

THIS PRINT DISCLOSES SUBJECT MATTER IN WHICH NYLOPLAST HAS PROPRIETARY RIGHTS. THE RECEIPT OR POSSESSION OF THIS PRINT DOES NOT CONFER, TRANSFER, OR LICENSE THE USE OF THE DESIGN OR TECHNICAL INFORMATION SHOWN HEREIN. REPRODUCTION OF THIS PRINT OR ANY INFORMATION CONTAINED HEREIN, OR MANUFACTURE OF ANY ARTICLE HEREFROM, FOR THE DISCLOSURE TO OTHERS IS FORBIDDEN, EXCEPT BY SPECIFIC WRITTEN PERMISSION FROM NYLOPLAST.

©2013 NYLOPLAST

DRAWN BY	EBC	MATERIAL	
DATE	03-22-10		
REVISED BY	NMH	PROJECT NO./NAME	
DATE	03-10-16		
DWG SIZE	A	SCALE	1:40
		SHEET	1 OF 1

3130 VERONA AVE BUFORD, GA 30518 PHN (770) 932-2443 FAX (770) 932-2490 www.nyloplast-us.com	Nyloplast	TITLE	DRAIN BASIN WITH 2 FT X 3 FT CURB INLET QUICK SPEC INSTALLATION DETAIL
		DWG NO.	7002-110-087
		REV	C

3099CGRHF & 3099CGRFH

APPROX. GRATE DRAIN AREA = 327.25 SQ IN
*APPROX. WEIGHT WITH FRAME & HOOD = 354.50 LBS

2' X 3' CURB INLET HIGH FLOW GRATE 3099CGRHF
ADJUSTMENT SLOTS
2' X 3' CURB INLET FRAME & HOOD 3099CGRFH
TOP OF BASE PLATE TO TOP OF DRAIN BASIN
18BASER: 2.83
24BASER: 2.83
30BASER: .44

8.73 HIGHEST HOOD SETTING
4.73 LOWEST HOOD SETTING
6.87

WEIGHT DOES NOT INCLUDE DUCTILE IRON BASE PLATE
18BASER: APPROX. 133.50 LBS
24BASER: APPROX. 122.00 LBS
30BASER: APPROX. 92.50 LBS

DIMENSIONS ARE FOR REFERENCE ONLY
ACTUAL DIMENSIONS MAY VARY
DIMENSIONS ARE IN INCHES
GRATE MEETS H-20 LOAD RATING
QUALITY: MATERIALS SHALL CONFORM TO ASTM A536 GRADE 70-50-05
PAINT: CASTINGS ARE FURNISHED WITH A BLACK PAINT
LOCKING DEVICE AVAILABLE UPON REQUEST SEE DRAWING NO. 7002-110-055

SLOPE OF GRATE SURFACE IS 5.2%
CURB INLET FRAME INSIDE VOLUME IS APPROX 2.73 CU FT
APPROX. DRAIN AREA OF GRATE & HOOD
LOWEST SETTING = 463.92 SQ IN
LOWEST + 1" SETTING = 496.79 SQ IN
LOWEST + 2" SETTING = 529.67 SQ IN
LOWEST + 3" SETTING = 562.54 SQ IN
HIGHEST SETTING = 595.42 SQ IN

402B

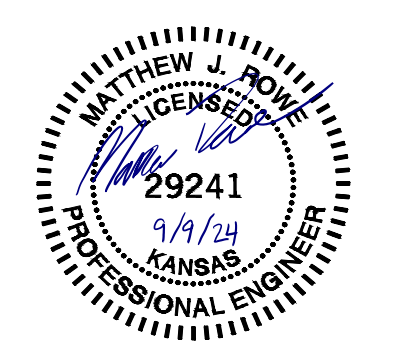
THIS PRINT DISCLOSES SUBJECT MATTER IN WHICH NYLOPLAST HAS PROPRIETARY RIGHTS. THE RECEIPT OR POSSESSION OF THIS PRINT DOES NOT CONFER, TRANSFER, OR LICENSE THE USE OF THE DESIGN OR TECHNICAL INFORMATION SHOWN HEREIN. REPRODUCTION OF THIS PRINT OR ANY INFORMATION CONTAINED HEREIN, OR MANUFACTURE OF ANY ARTICLE HEREFROM, FOR THE DISCLOSURE TO OTHERS IS FORBIDDEN, EXCEPT BY SPECIFIC WRITTEN PERMISSION FROM NYLOPLAST.

©2013 NYLOPLAST

DRAWN BY	EBC	MATERIAL	DUCTILE IRON
DATE	04-10-06		
REVISED BY	CCA	PROJECT NO./NAME	
DATE	09-05-13		
DWG SIZE	A	SCALE	1:16
		SHEET	1 OF 1

3130 VERONA AVE BUFORD, GA 30518 PHN (770) 932-2443 FAX (770) 932-2490 www.nyloplast-us.com	Nyloplast	TITLE	2 FT X 3 FT CURB INLET HIGH FLOW GRATE ASSEMBLY
		DWG NO.	7002-110-047
		REV	D

SALINA FIRE STATION #4
EAST CRAWFORD STREET
& MARKLEY ROAD
SALINA, KS 67401
CITY OF SALINA
725 Minnesota Ave., Salina 662 Kansas City, Kansas 66101 Tel: 816-300-4101 Fax: 816-300-4102



BID SET DOCUMENTS

ISSUE DATE	09/05/2024
No. Description	Date

WSKF, Inc. © 2024

DETAIL SHEET

C-09

PROJ. NO. E22D3222 DSN: MJR MATTHEW J. ROWE
DTN: 3222197 DRN: TDA ENGINEER KS # 29241

1627 SUNFLOWER LANE
SALINA, KANSAS 67401
PH: (785) 823-3400
info@kveeng.com | www.kveeng.com

KV KAW VALLEY ENGINEERING

KAW VALLEY ENGINEERING, INC., IS AUTHORIZED TO OFFER ENGINEERING SERVICES BY KANSAS STATE CERTIFICATE OF AUTHORIZATION # E-113. EXPIRES 12/31/24



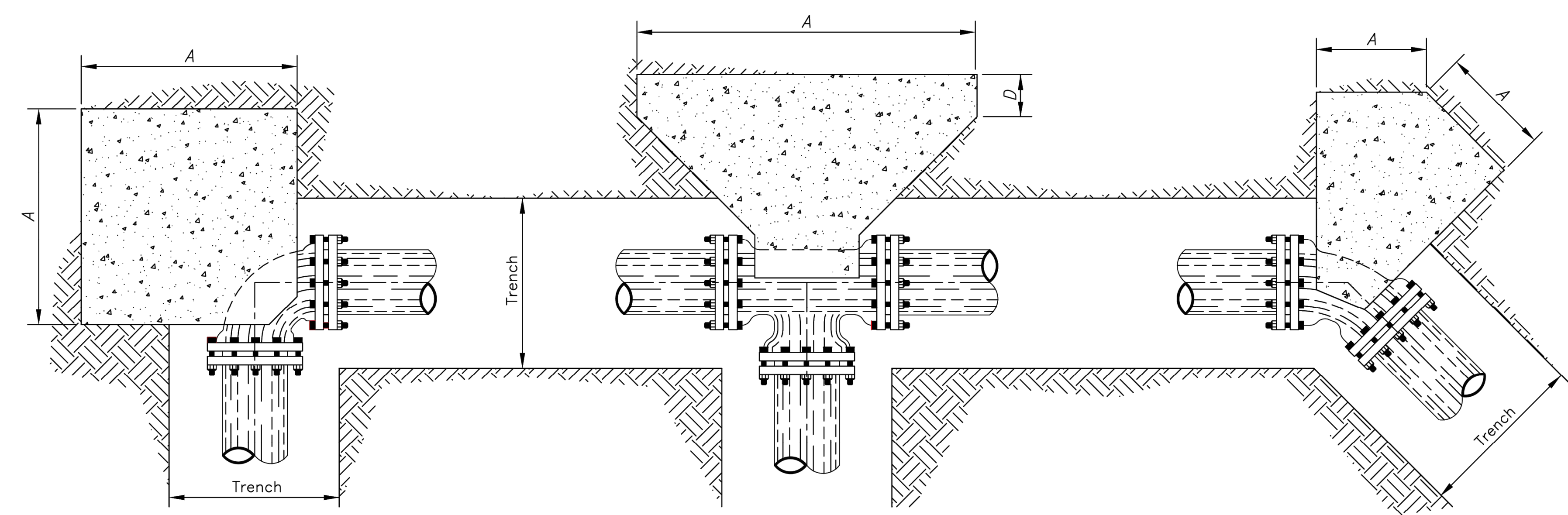
Kansas Certificate of Authority #A-516

CIVIL ENGINEER
KAW Valley Engineering
KS Certificate of Authority #29241
1627 Sunflower Lane
Salina, KS 67401
785-823-3400

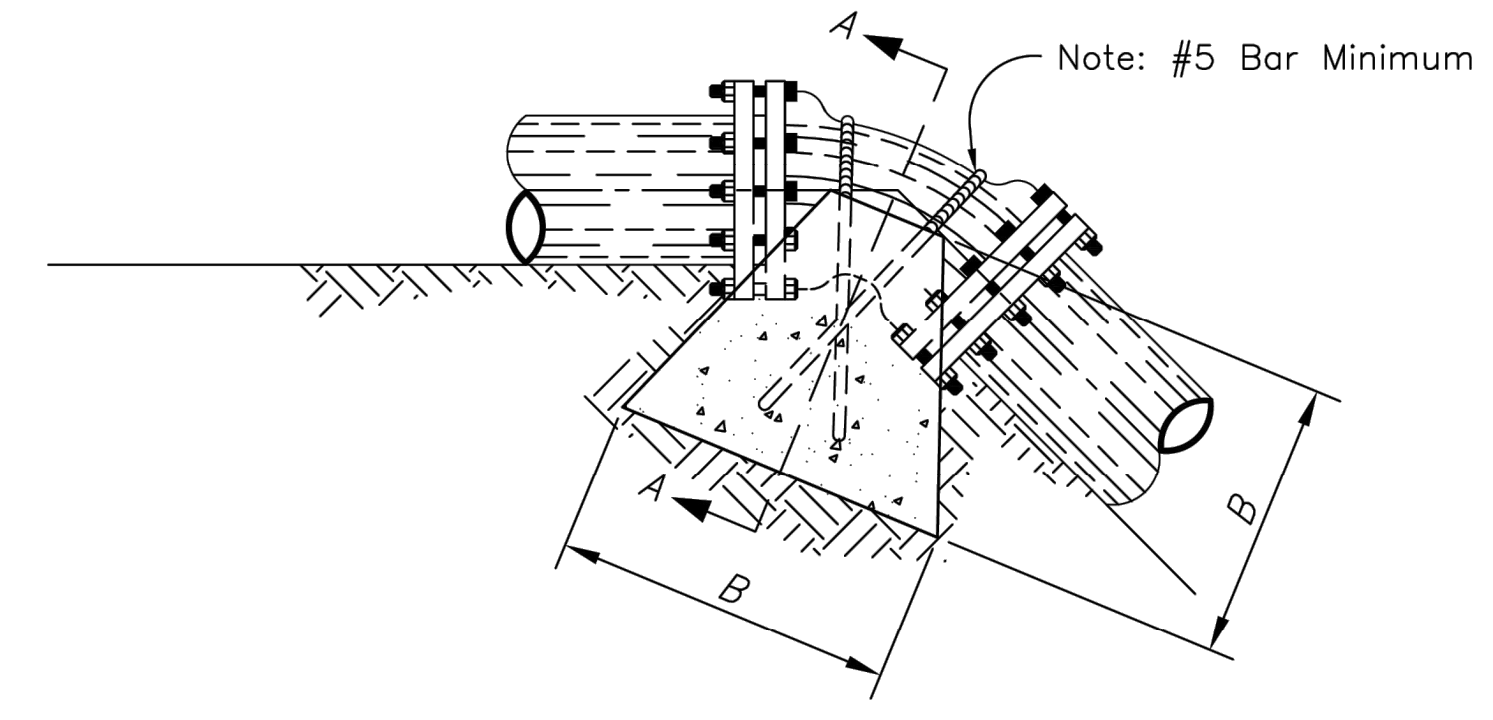
Structural Engineer
Bob D. Campbell & Co.
KS Certificate of Authority #000442
4338 Bellview
Kansas City, MO 64111
816-778-7149

MEP Engineer
PKMR Engineers, Inc.
KS Certificate of Authority #E-2002020886
13300 W. 89th St.
Lenexa, KS 66215
913-492-2400

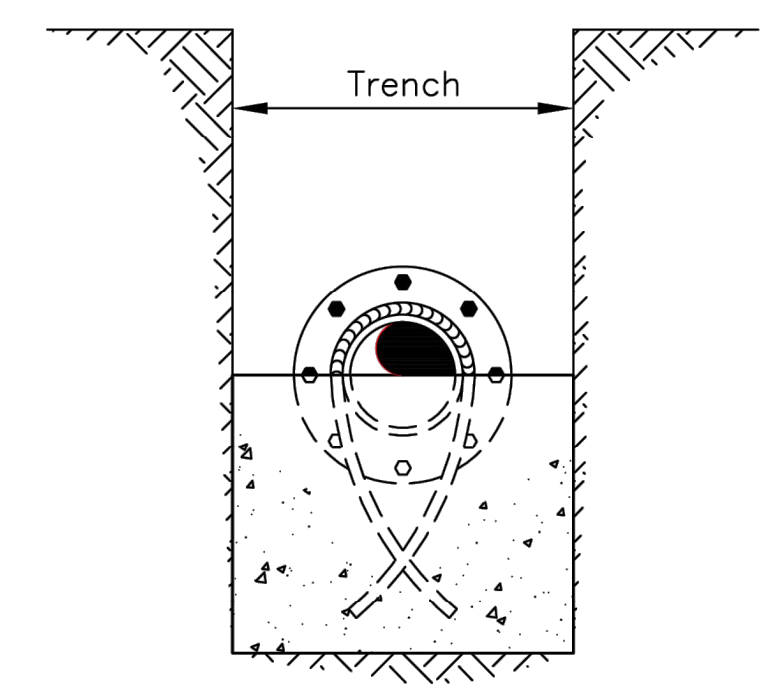
DATE	REVISIONS
11/14	Issued for Construction
08/15	FH Note & FH Thrust Block
03/16	FH Finish Grade Clearance Dim.
06/18	Pavement Cutting Details
07/23	Pipe Material, Wrap



PLAN

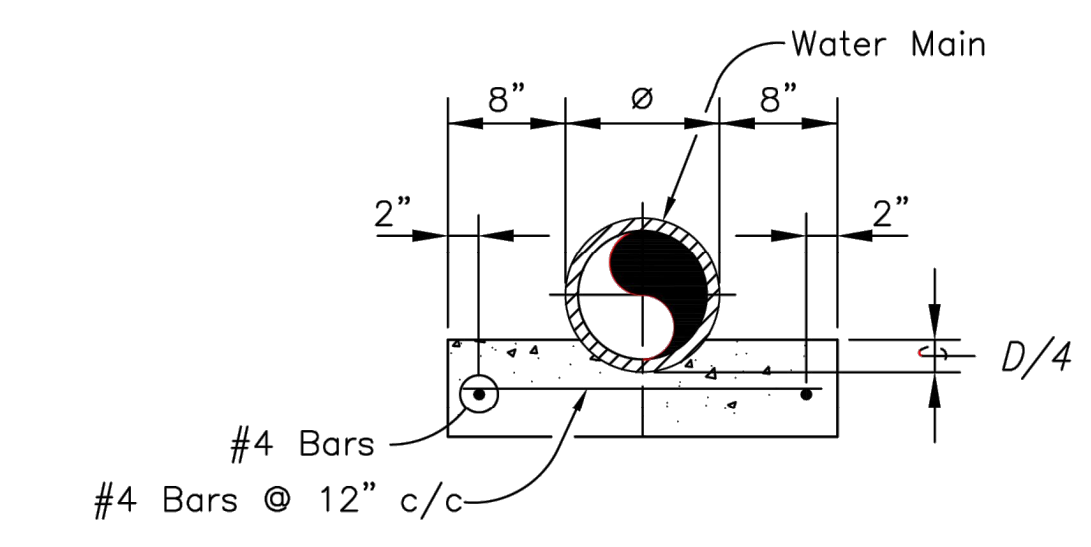


ELEVATION

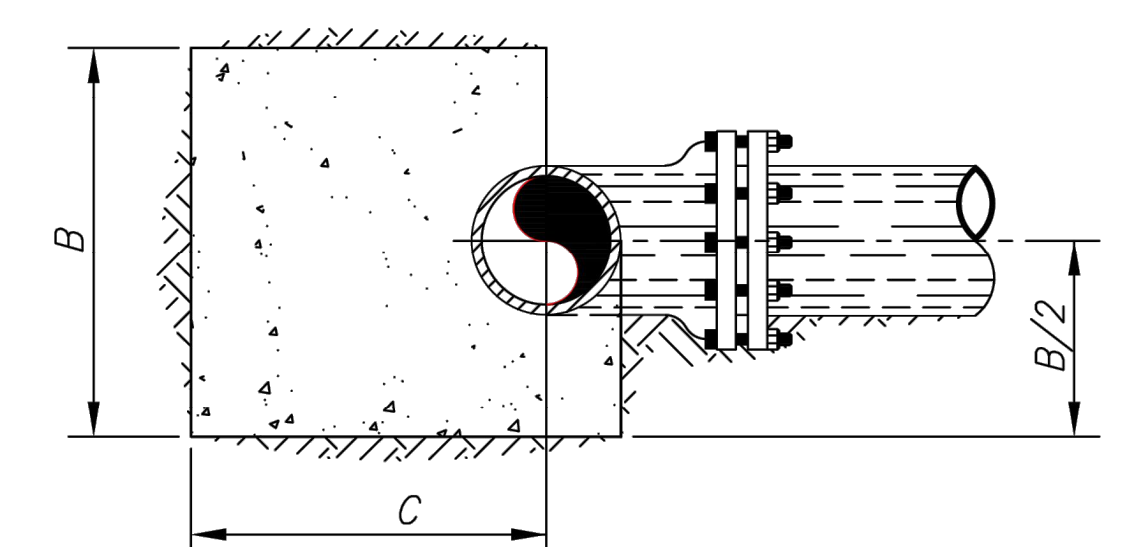


SECTION A-A

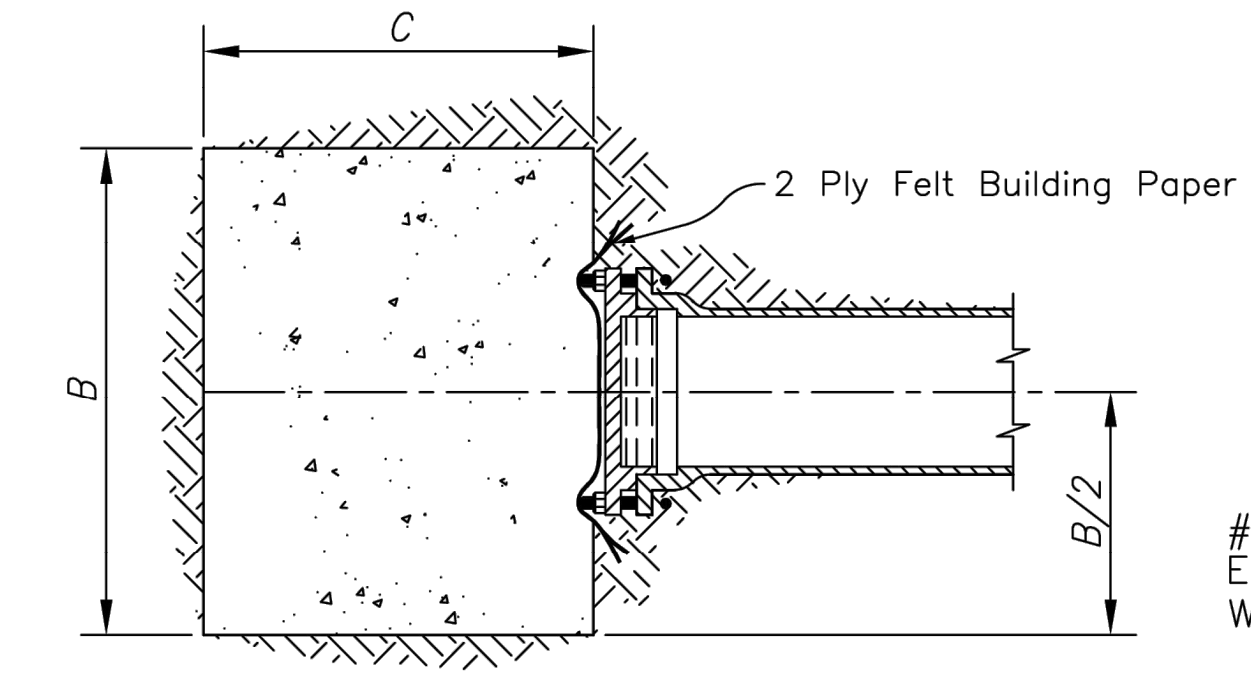
VERTICAL BLOCKING DETAILS



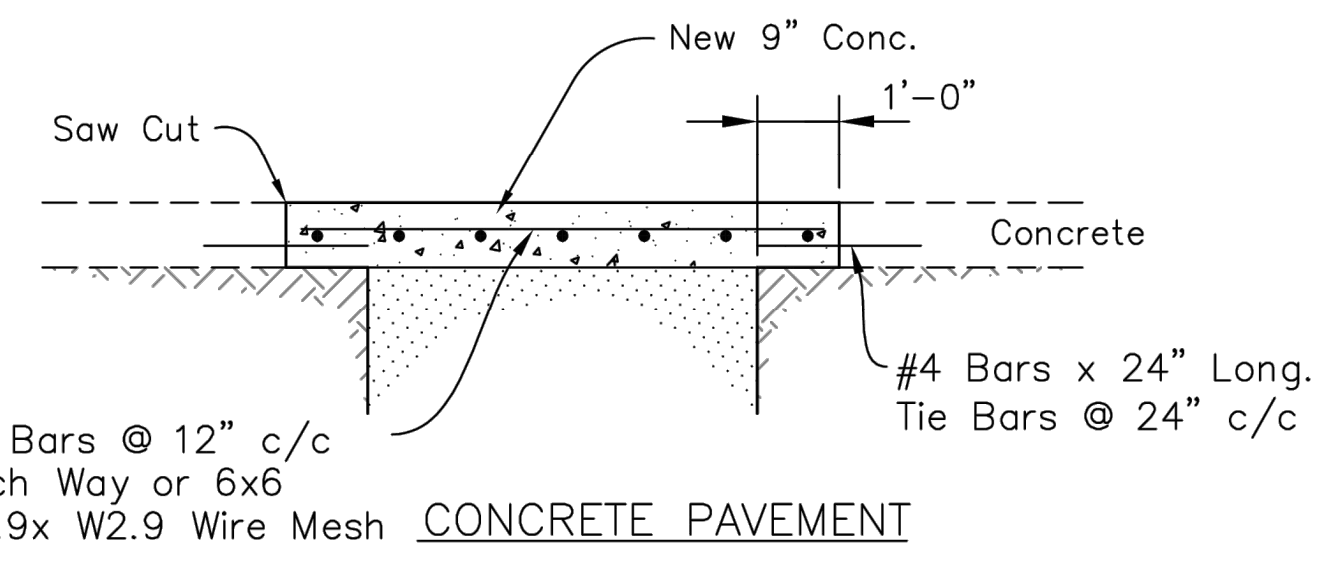
TYPICAL CONCRETE PIPE CRADLE



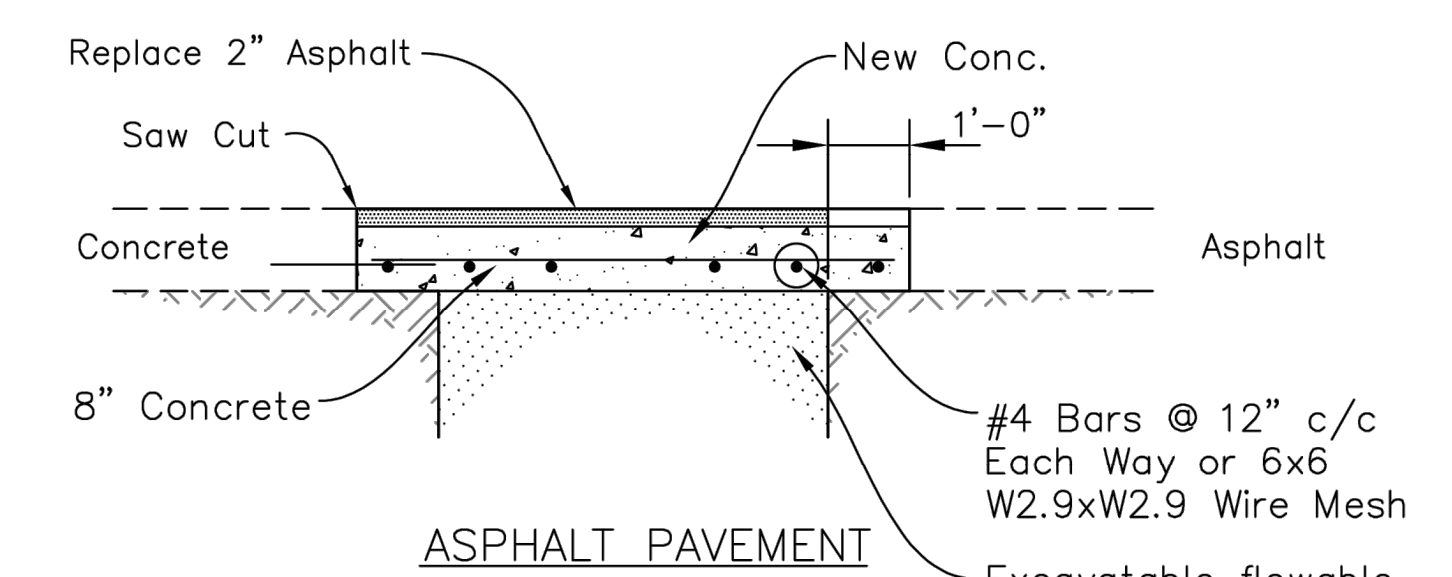
TYPICAL BLOCKING DETAILS



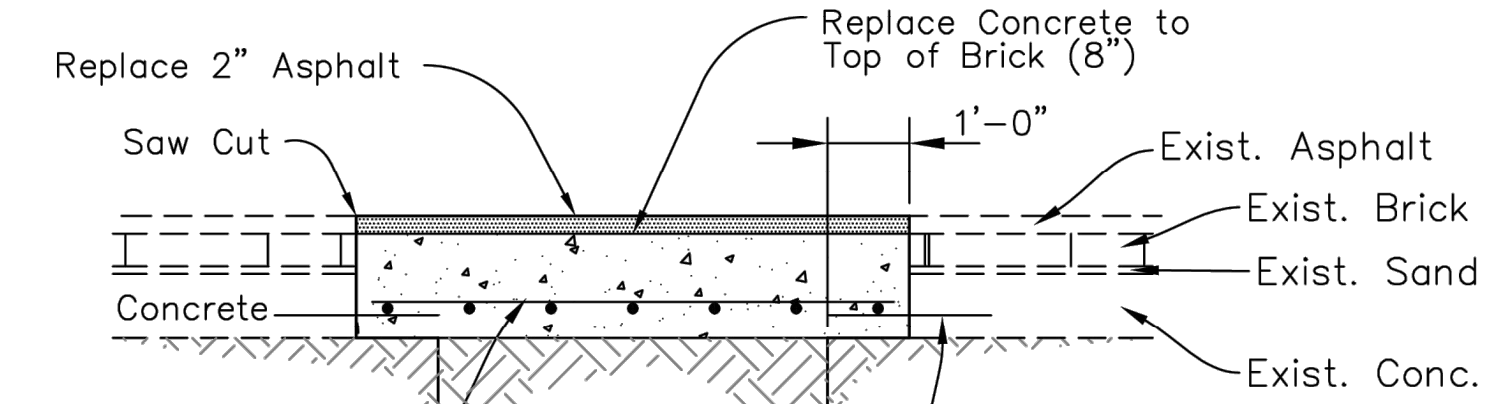
TYPICAL BLOCKING FOR DUCTILE IRON PLUG



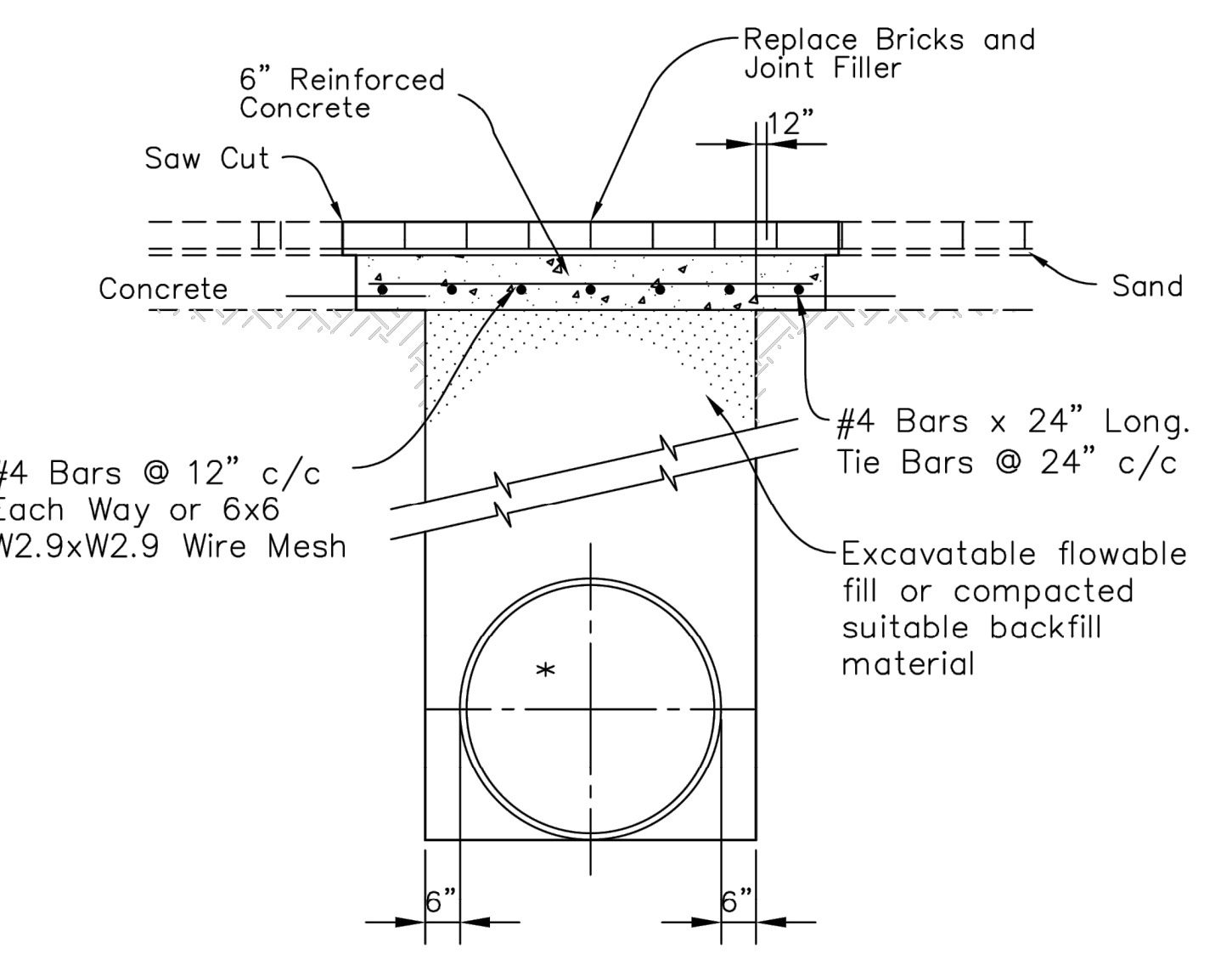
CONCRETE PAVEMENT



ASPHALT PAVEMENT



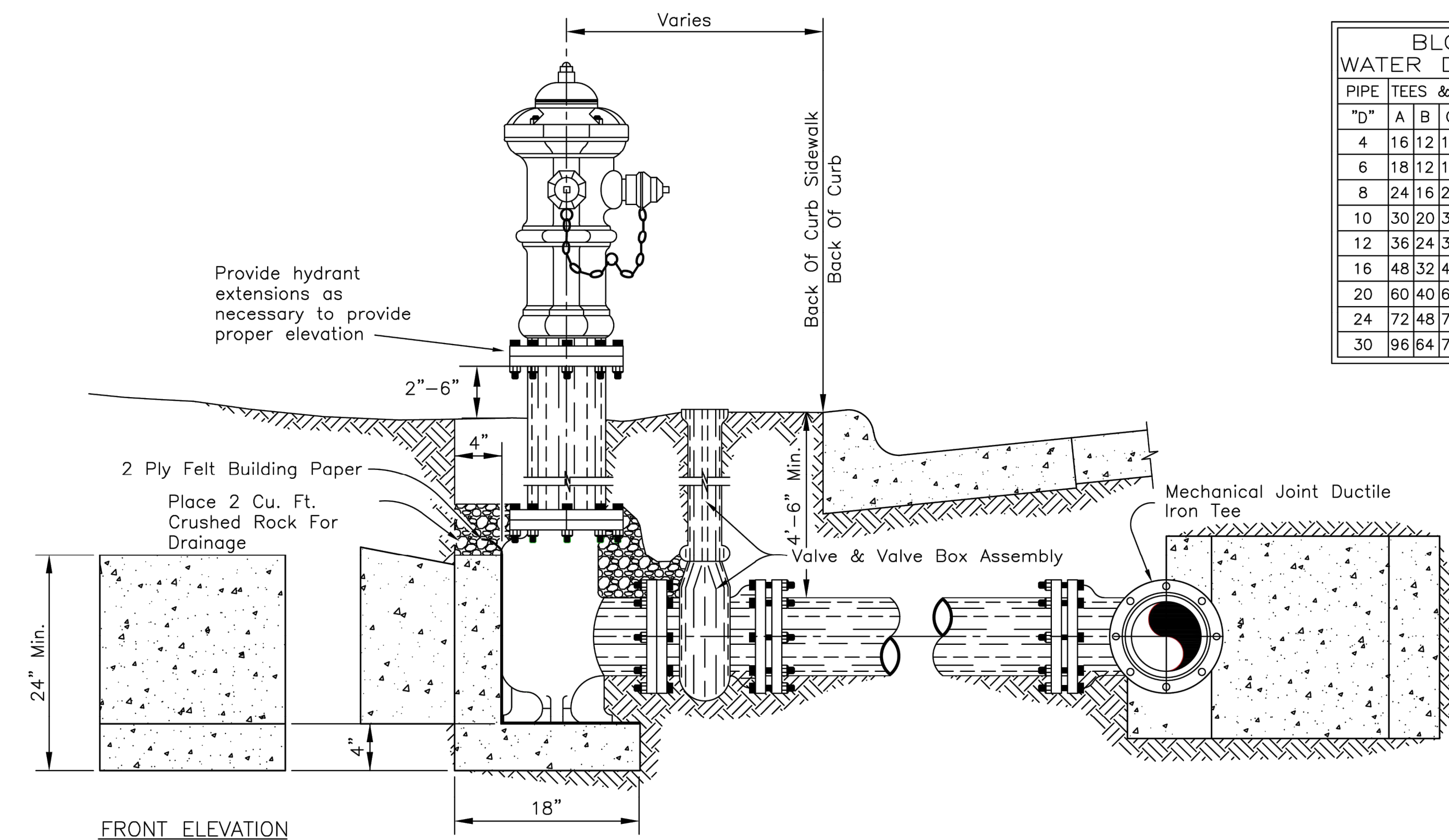
ASPHALT OVER BRICK PAVEMENT



BRICK PAVEMENT

PAVEMENT CUTTING DETAILS

- General Notes:
- Any excavation left open overnight in any roadway shall be securely plated.
 - Permanent pavement markings shall be replaced with like materials within fourteen days after pavement surface has been replaced, unless authorized by the City Engineer.
 - All Utility Patches within roadway shall be backfilled with excavatable flowable fill mix or suitable material compacted to a density equal to or greater than 95% of the maximum density of the soil obtained by the testing method of ASTM D-698 the latest revision.
 - Water lines shall have a minimum cover of 54", or more as shown on profiles.
 - All valves on mains and fire hydrant leads shall be installed with valve box assemblies.
 - The size of the valve box assembly to be installed shall be determined by the type and size of valve.
 - Valve box caps shall have the word "water" cast in the top.
 - Reinforcing steel to be incidental to patching and shall not be considered an extra pay item.
 - Provide polyethylene wrap for all ductile iron fittings, valves pipe, and appurtenances.



FRONT ELEVATION

FIRE HYDRANT SETTING DETAILS

BLOCKING SCHEDULE WATER DISTRIBUTION FITTINGS													
PIPE "D"	TEES & PLUGS				90°				45°				22.5°
	A	B	C	D	A	B	C	A	B	C	A	B	C
4	16	12	16	12	16	12	16	16	12	16	16	12	16
6	18	12	18	16	18	12	18	18	12	18	18	12	18
8	24	16	24	16	24	16	24	24	16	24	24	16	24
10	30	20	30	16	30	20	30	30	20	30	30	20	30
12	36	24	36	18	36	24	36	36	24	36	36	24	36
16	48	32	48	18	48	32	48	48	32	48	48	32	48
20	60	40	60	18	60	40	60	60	40	60	60	40	60
24	72	48	72	18	72	48	72	72	48	72	72	48	72
30	96	64	96	18	96	64	96	96	64	96	96	64	96

600

CITY OF SALINA, KANSAS
PUBLIC WORKS - ENGINEERING - UTILITIES

STANDARD DETAILS
WATER DISTRIBUTION

PROJ. NO. DATE SHEET: 13

SALINA FIRE STATION #4

EAST CRAWFORD STREET
& MARKLEY ROAD
SALINA, KS 67401
CITY OF SALINA



BID SET DOCUMENTS
ISSUE DATE: 09/05/2024
No. Description Date

PROJ. NO. E2203222 DSN: MUR ENGINEER KANSAS # 29241
CITY: 322217P DWG: TDA

1627 SUNFLOWER LANE
SALINA, KANSAS 67401
PH. (785) 823-3400
info@kveeng.com | www.kveeng.com

KAW VALLEY ENGINEERING

KAW VALLEY ENGINEERING, INC., IS AUTHORIZED TO OFFER
ENGINEERING SERVICES BY KANSAS STATE CERTIFICATE OF
AUTHORIZATION # E-113. EXPIRES 12/31/24

DETAIL SHEET
C-10



Kansas Certificate of Authority #A-516

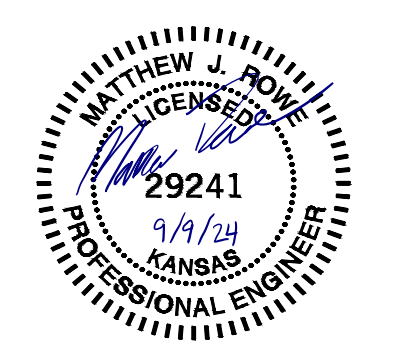
CIVIL ENGINEER
 KAW Valley Engineering
 KS Certificate of Authority #29241
 1627 Sunflower Lane
 Salina, KS 67401
 785-823-3400

Structural Engineer
 Bob D. Campbell & Co.
 KS Certificate of Authority #000442
 4338 Bellvue
 Kansas City, MO 64111
 816-778-7149

MEP Engineer
 PKMR Engineers, Inc.
 KS Certificate of Authority #E-2002020886
 13300 W. 89th St.
 Lenexa, KS 66215
 913-492-2400

JOB NUMBER 22 003

SALINA FIRE STATION #4
 EAST CRAWFORD STREET
 & MARKLEY ROAD
 SALINA, KS 67401
 CITY OF SALINA
 725 Minnesota Ave., Suite 662 Kansas City, Kansas 66101 Tel: 816.300.4101 Fax 816.300.4102



BID SET DOCUMENTS

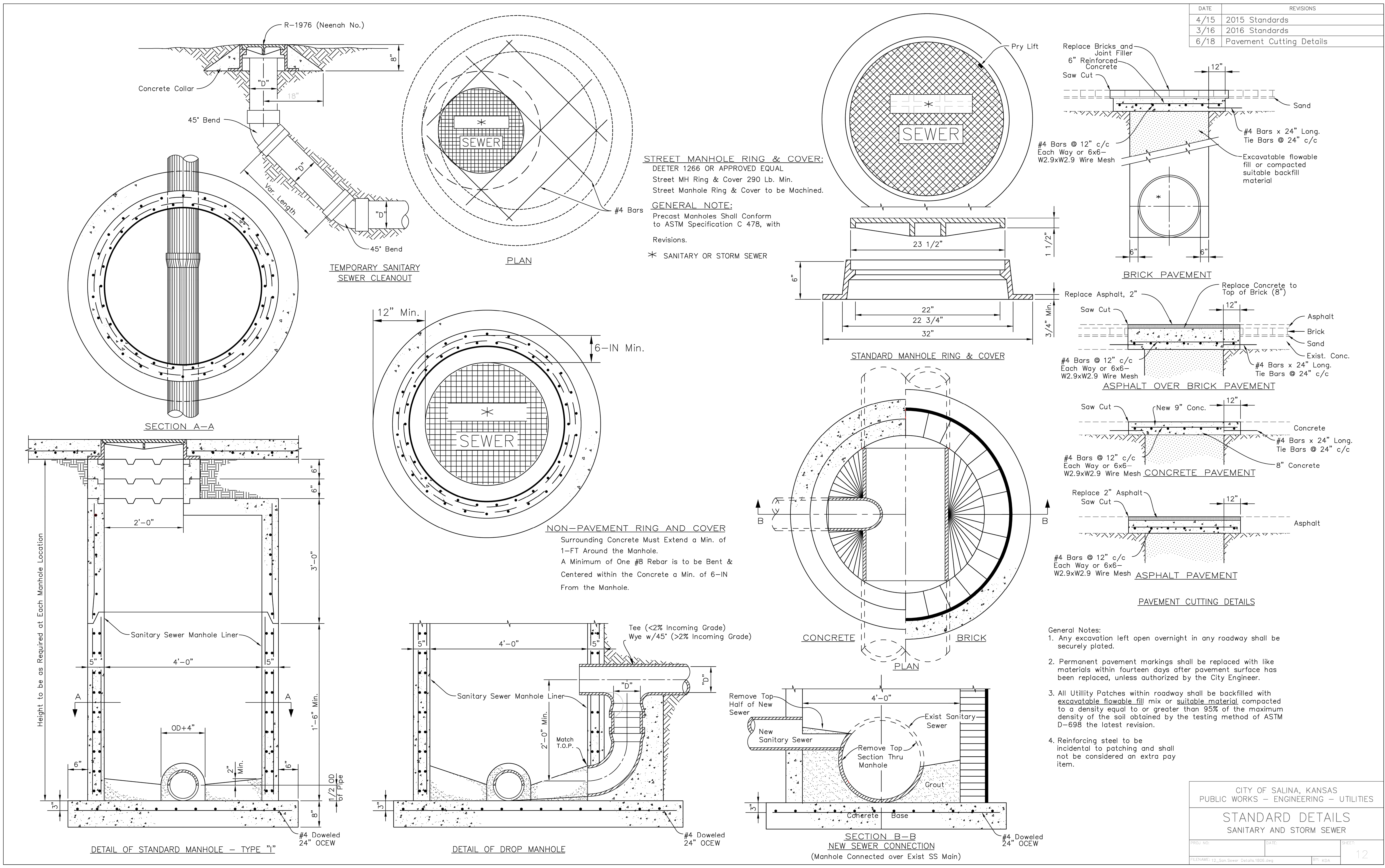
ISSUE DATE 09/05/2024
 No. Description Date

WSKF, Inc. © 2024

DETAIL SHEET

C-11

DATE	REVISIONS
4/15	2015 Standards
3/16	2016 Standards
6/18	Pavement Cutting Details



CITY OF SALINA, KANSAS
 PUBLIC WORKS - ENGINEERING - UTILITIES

STANDARD DETAILS
 SANITARY AND STORM SEWER

PROJ. NO. DATE SHEET
 12

FILENAME: 12_San Sewer Details 1808.dwg BY: KDA

PROJ. NO. E2203222 DSN: MUR ENGINEER KANSAS # 29241
 CWN: 322217P DRW: TDA

KV KAW VALLEY ENGINEERING

1627 SUNFLOWER LANE
 SALINA, KANSAS 67401
 PH: (785) 823-3400
 kv@kveeng.com | www.kveeng.com

KAW VALLEY ENGINEERING, INC., IS AUTHORIZED TO OFFER ENGINEERING SERVICES BY KANSAS STATE CERTIFICATE OF AUTHORIZATION # E-113. EXPIRES 12/31/24



Kansas Certificate of Authority #A-516

CIVIL ENGINEER
KAW Valley Engineering
KS Certificate of Authority #29241
1627 Sunflower Lane
Salina, KS 67401
785-823-3400

Structural Engineer
Bob D. Campbell & Co.
KS Certificate of Authority #000442
4338 Bellview
Kansas City, MO 64111
816-778-7149

MEP Engineer
PKMR Engineers, Inc.
KS Certificate of Authority #E-2002020886
13300 W. 89th St.
Lenexa, KS 66215
913-492-2400

JOB NUMBER 22003

SALINA FIRE STATION #4

EAST CRAWFORD STREET
& MARKLEY ROAD
SALINA, KS 67401
CITY OF SALINA

725 Minnesota Ave., Suite 662 Kansas City, Kansas 64101 Tel: 816.300.4101 Fax 816.300.4102



BID SET DOCUMENTS

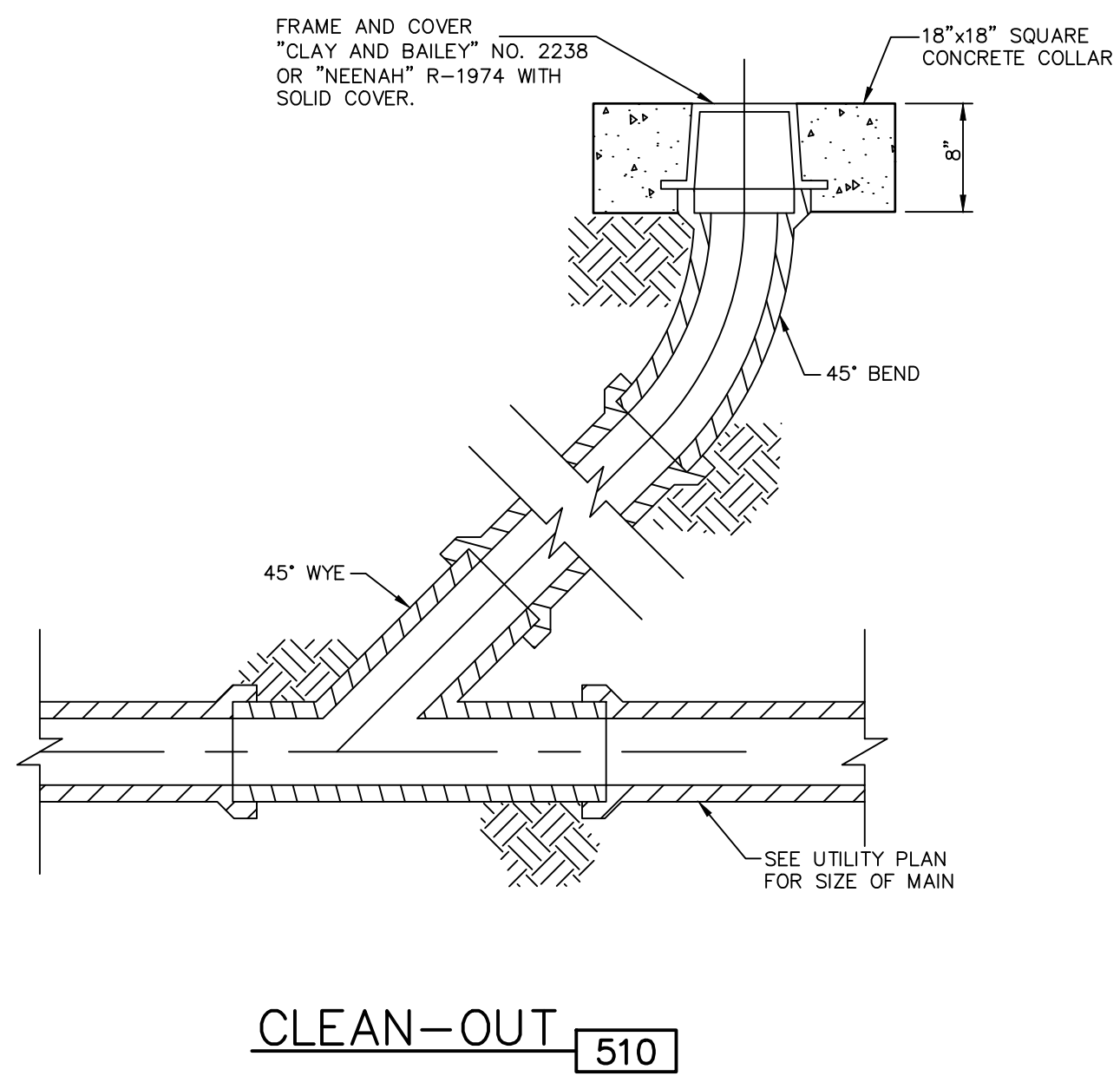
ISSUE DATE 09/05/2024
No Description Date

PROJ. NO.	DATE	SHEET
3-16-2017		27

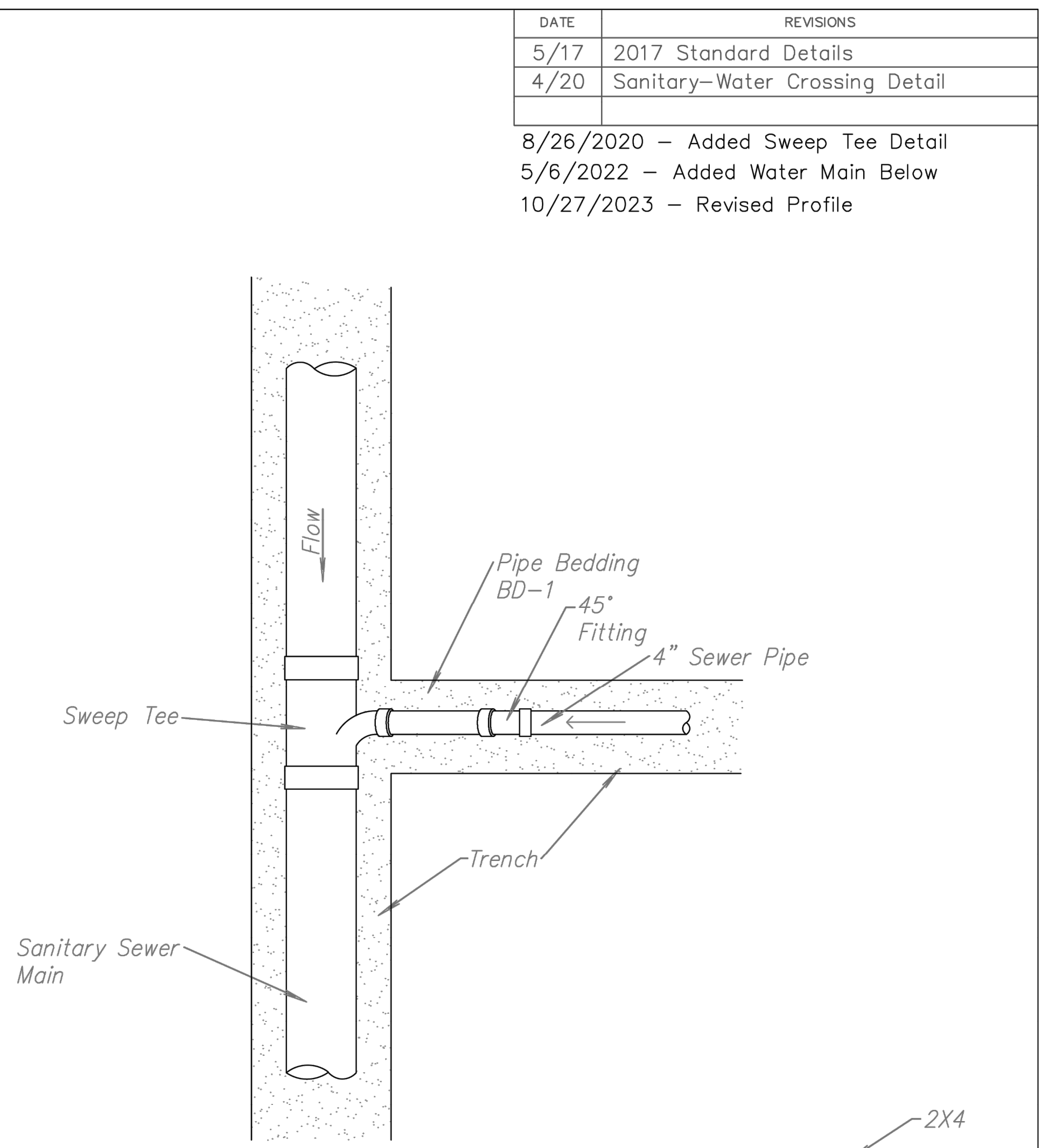
WSKF, Inc. © 2024

DETAIL SHEET

C-12

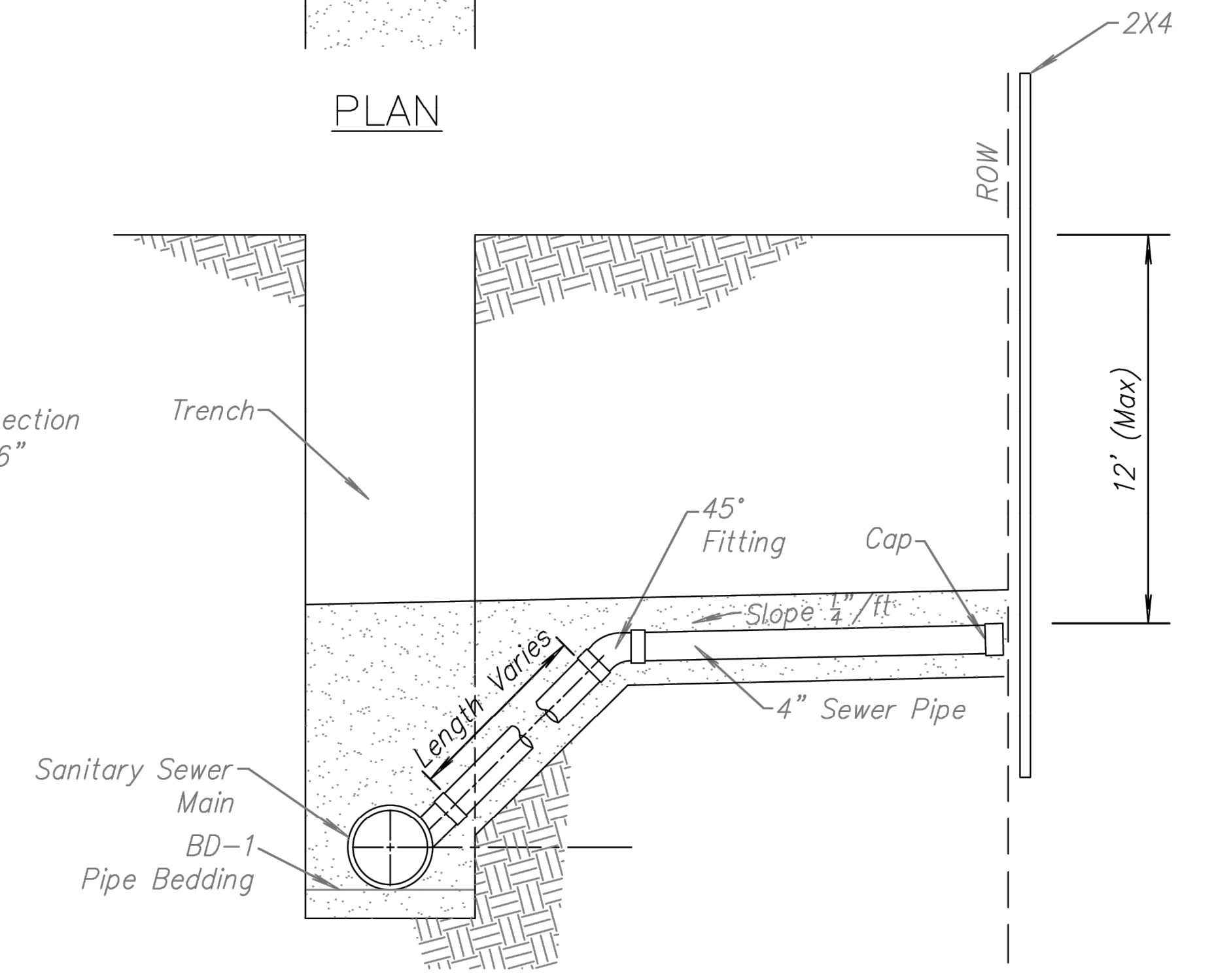


CLEAN-OUT 510



PLAN

* Existing Main Connection
Use Predco 4" or 6"
Spigot Tap Saddle



CROSS SECTION

SEWER CONNECTION
NEW CONSTRUCTION

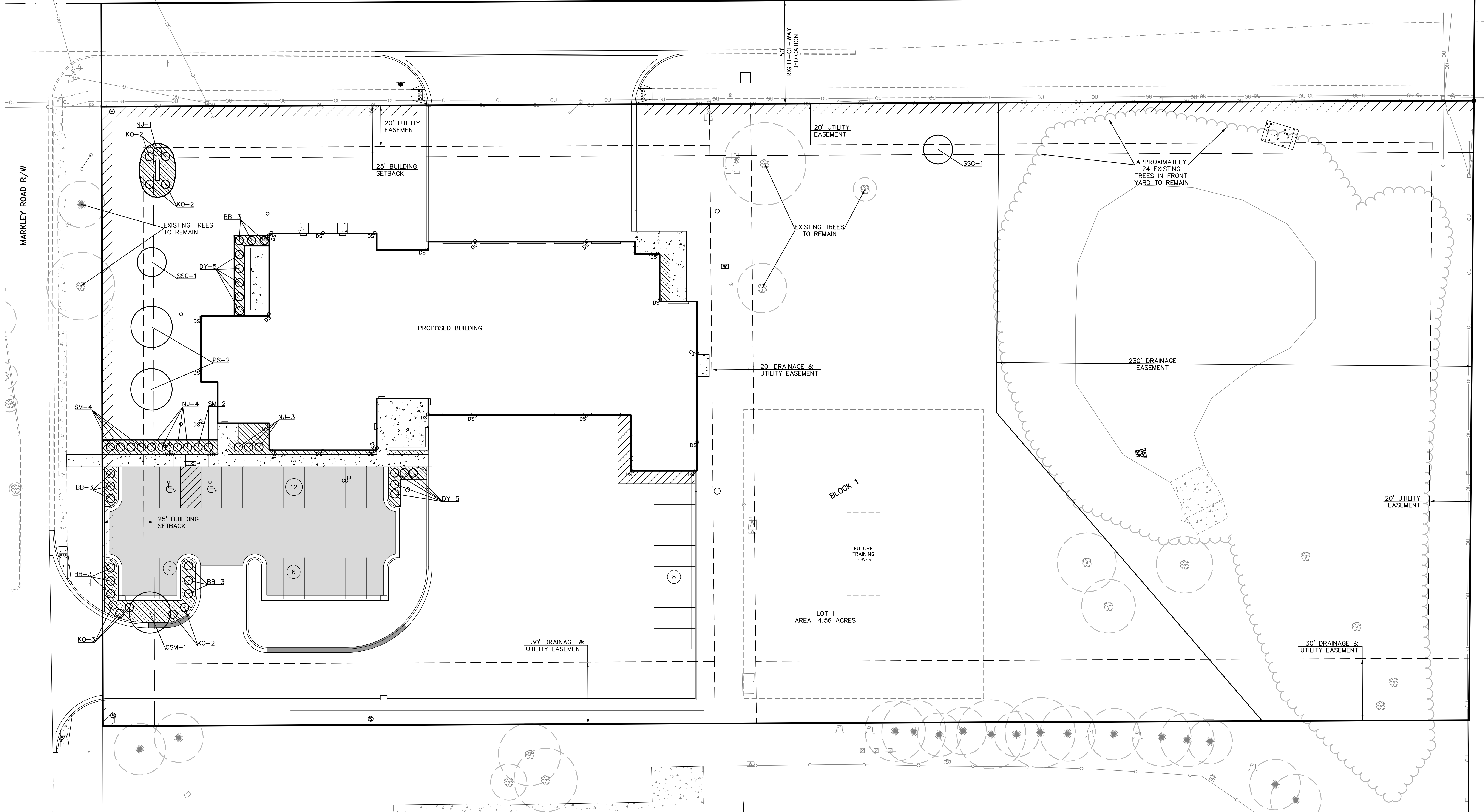
DATE	REVISIONS
5/17	2017 Standard Details
4/20	Sanitary-Water Crossing Detail
8/26/2020 - Added Sweep Tee Detail	
5/6/2022 - Added Water Main Below	
10/27/2023 - Revised Profile	

CITY OF SALINA, KANSAS PUBLIC WORKS - ENGINEERING - UTILITIES		
STANDARD DETAILS SANITARY SEWER		
PROJ. NO.	DATE	SHEET
3-16-2017		27
FILENAME: 27_Sanitary Sewer Wye.1705_KPU.dwg	BY:	

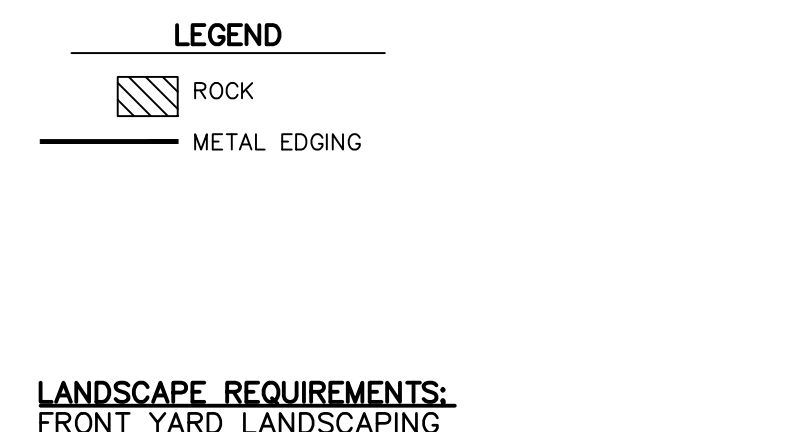
PROJ. NO. E22D3222 DSN: MUR ENGINEER KS # 29241
CWN: 322217P DWG: TDA
1627 SUNFLOWER LANE
SALINA, KANSAS 67401
PH: (785) 823-3400
www.kawvalley.com | www.lvweng.com

KAW VALLEY ENGINEERING, INC. IS AUTHORIZED TO OFFER
ENGINEERING SERVICES BY KANSAS STATE CERTIFICATE OF
AUTHORIZATION # E-113. EXPIRES 12/31/24

CRAWFORD STREET R/W

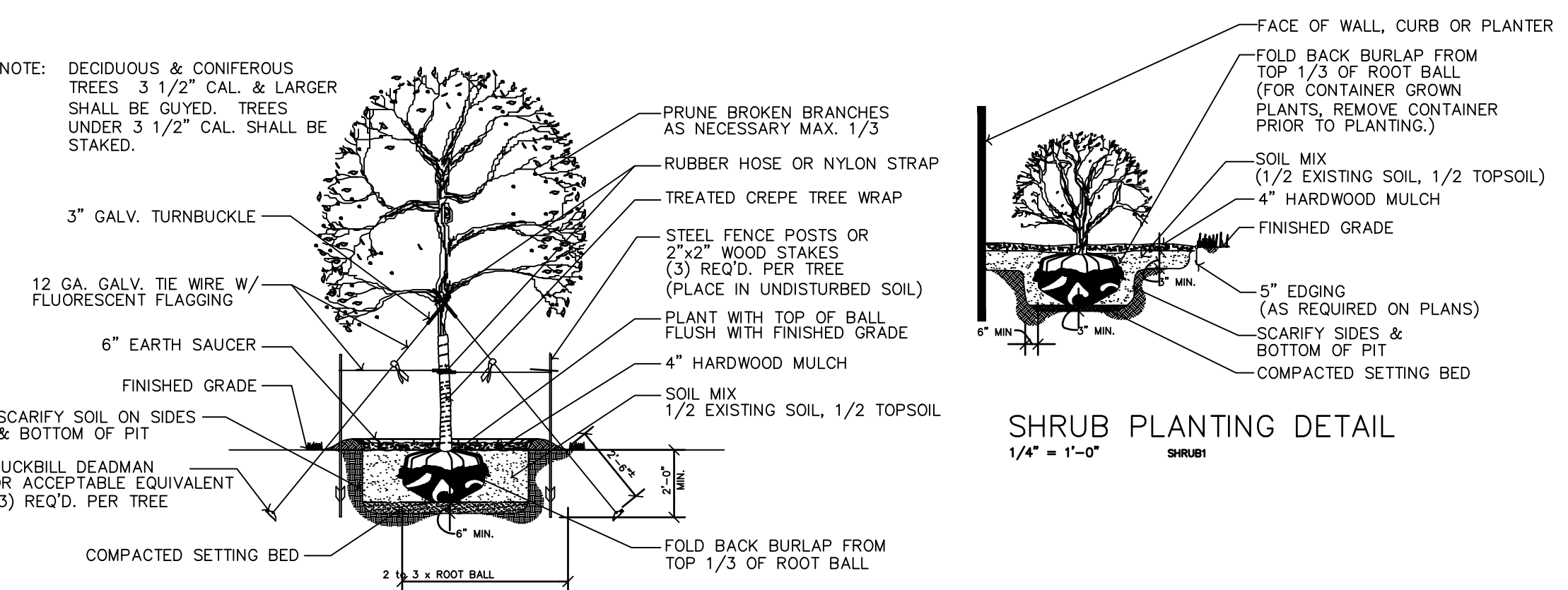


- LANDSCAPE NOTES:**
- CONTRACTOR SHALL VERIFY THE EXISTENCE AND LOCATION OF ALL UTILITIES AND STRUCTURES PRIOR TO PLANT INSTALLATION.
 - ALL SHRUB BEDS AND TREE BASINS SHALL RECEIVE A MINIMUM OF 4" OF HARDWOOD MULCH WITH WEED BARRIER FABRIC (DEWITT PRO-5 OR EQUIVALENT). DO NOT USE WALNUT PRODUCTS. CREATE A SMOOTH, UNIFORM SURFACE.
 - PLACE PLANTS ACCORDING TO PLAN FOR BEST APPEARANCE FOR REVIEW AND FINAL ORIENTATION BY LANDSCAPE ARCHITECT OR ENGINEER.
 - PRIOR TO SEEDING/SODDING THE CONTRACTOR SHALL FINE GRADE BY RAKING, ROLLING AND/OR DRAGGING TO ENSURE DRAINAGE & CREATE A SMOOTH, UNIFORM SURFACE.
 - ALL AREAS NOT DESIGNATED AS PAVEMENT OR LANDSCAPED AREAS SHALL BE SEEDED/SODDED ACCORDING TO SPECIFICATIONS.
 - ALL LANDSCAPED AREAS AND TURF SHALL BE IRRIGATED BY MEANS OF AN AUTOMATIC IRRIGATION SYSTEM IN ACCORDANCE WITH SPECIFICATIONS.
 - ALL SHRUB BEDS ADJACENT TO TURF AREAS SHALL BE EDGED WITH A POLYETHYLENE EDGING MATERIAL INSTALLED WITH TOP EXPOSED 1/2" MIN. ABOVE MULCHING MATERIAL.
 - ALL SLOPES AND AREAS DISTURBED BY CONSTRUCTION SHALL BE GRADED SMOOTH AND 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 SEEDED, 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.
- IRRIGATION PERFORMANCE SPECIFICATION:**
- THE FOLLOWING CRITERIA SHALL BE CONSIDERED MINIMUM STANDARDS FOR DESIGN AND INSTALLATION OF LANDSCAPE IRRIGATION SYSTEM:
- IRRIGATION SYSTEM SHALL CONFORM TO ALL INDUSTRY STANDARDS AND ALL FEDERAL, STATE AND LOCAL LAWS GOVERNING DESIGN AND INSTALLATION.
 - WATER LINE TYPE, SIZE, LOCATION, PRESSURE AND FLOW SHALL BE FIELD VERIFIED PRIOR TO SYSTEM DESIGN AND INSTALLATION.
 - ALL MATERIALS SHALL BE FROM NEW STOCK FREE OF DEFECTS AND CARRY A MINIMUM ONE YEAR WARRANTY FROM THE DATE OF SUBSTANTIAL COMPLETION.
 - THE IRRIGATION SYSTEM SHALL BE DESIGNED AND INSTALLED IN SUCH A WAY THAT ALL SYSTEM COMPONENTS OPERATE WITHIN THE GUIDELINES ESTABLISHED BY THE MANUFACTURER.
 - LAWN AREA AND SHRUB BEDS SHALL BE ON SEPARATE CIRCUITS.
 - WATER TAP, METER SET METER VAULT AND ALL OTHER OPERATIONS NECESSARY TO PROVIDE WATER FOR IRRIGATION SHALL CONFORM TO LOCAL WATER GOVERNING AUTHORITY GUIDELINES AND STANDARDS.
 - BACKFLOW PREVENTION SHALL BE PROVIDED IN ACCORDANCE WITH STATE AND LOCAL REGULATIONS.
 - IRRIGATION CONTROLLER STATIONS SHALL BE LABELED TO CORRESPOND WITH THE CIRCUIT IT CONTROLS.
 - AN "AS-BUILT" SCALED DRAWING SHALL BE PROVIDED TO THE OWNER BY THE CONTRACTOR AND SHALL INCLUDE BUT NOT BE LIMITED TO THE FOLLOWING:
 - AS CONSTRUCTED LOCATION OF ALL COMPONENTS
 - COMPONENT NAME, MANUFACTURER, MODEL INFORMATION, SIZE AND QUANTITY
 - PIPE SIZE AND QUANTITY
 - INDICATION OF SPRINKLER HEAD SPRAY PATTERN
 - CIRCUIT IDENTIFICATION SYSTEM
 - DETAILED METHOD OF WATERING SYSTEM
 - CONTRACTOR SHALL PROVIDE TO THE OWNER WRITTEN OPERATION INFORMATION FOR ALL SYSTEM COMPONENTS.
 - CONTRACTOR SHALL PROVIDE TO THE OWNER ALL KEYS, ACCESS TOOLS, WRENCHES AND ADJUSTING TOOLS NECESSARY TO GAIN ACCESS, ADJUST AND CONTROL THE SYSTEM.
 - CONTRACTOR SHALL PROVIDE SHOP DRAWINGS TO THE OWNER FOR REVIEW AND APPROVAL PRIOR TO INSTALLATION.
 - AN AUTOMATIC RAIN SHUT-OFF OR MOISTURE DEVICE SHALL BE INSTALLED.



PLANT SCHEDULE

KEY	QTY.	BOTANICAL NAME	COMMON NAME	SIZE	
SHRUBS					
SM	6	PINUS MUGO 'SHERWOOD COMPACT'	SHERWOOD COMPACT MUGO PINE	2 GAL	CONT.
NJ	8	CEANOTHUS AMERICANUS	NEW JERSEY TEA	2 GAL	CONT.
DY	10	TAXUS X MEDIA 'DENSIFORMIS'	DENSIFORMIS YEW	5 GAL	CONT.
KO	9	ROSA RADRAZZ 'KNOCKOUT'	KNOCKOUT ROSE	5 GAL	CONT.
BB	12	EUONYMUS ALATUS COMPACTA	BURNING BUSH	5 GAL	CONT.
TREES					
PS	2	ACER TRUNCATUM X PLATANOIDES 'WARRENRED'	PACIFIC SUNSET MAPLE	2"	B & B
CSM	1	ACER SACHARUM 'JOHN PAIR'	CADDO SUGAR MAPLE	1.5"	B & B
SSC	2	MALUS 'SPRING SNOW'	SPRING SNOW CRABAPPLE	1.5"	B & B



TREE PLANTING DETAIL
1/4" = 1'-0"

PROJ. NO. E2203222 DSN: MUR
DATE: 07/11/2024 DWG: TDA

MATTHEW J. ROWE
ENGINEER
KS # 29241

1627 SUNFLOWER LANE
SALINA, KANSAS 67401
PH. (785) 823-3400
info@kvweng.com | www.kvweng.com

KAW VALLEY ENGINEERING

KAW VALLEY ENGINEERING, INC., IS AUTHORIZED TO OFFER ENGINEERING SERVICES BY KANSAS STATE CERTIFICATE OF AUTHORIZATION # E-113. EXPIRES 12/31/24

LANDSCAPE PLAN

C-13

BID SET DOCUMENTS

ISSUE DATE	DESCRIPTION	DATE
09/05/2024	No Description	



Kansas Certificate of Authority #A-516

CIVIL ENGINEER
KAW Valley Engineering
KS Certificate of Authority #29241
12722 Sunflower Lane
Salina, KS 67401
785-823-3400

Structural Engineer
Bob D. Campbell & Co.
KS Certificate of Authority
#000442
4338 Bellview
Kansas City, MO 64111
816-778-7149

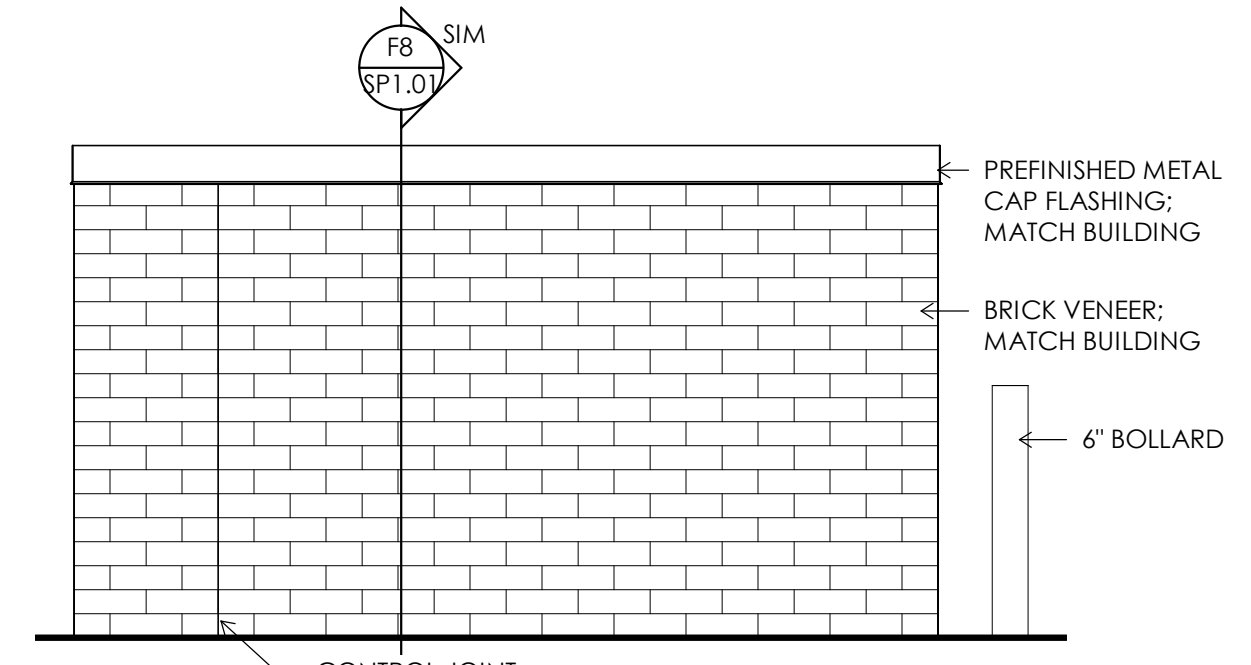
MEP Engineer
PKMR Engineers, Inc.
KS Certificate of Authority
#E-2002020886
13300 W. 98th St.
Lenexa, KS 66215
913-492-2400

GENERAL NOTES:

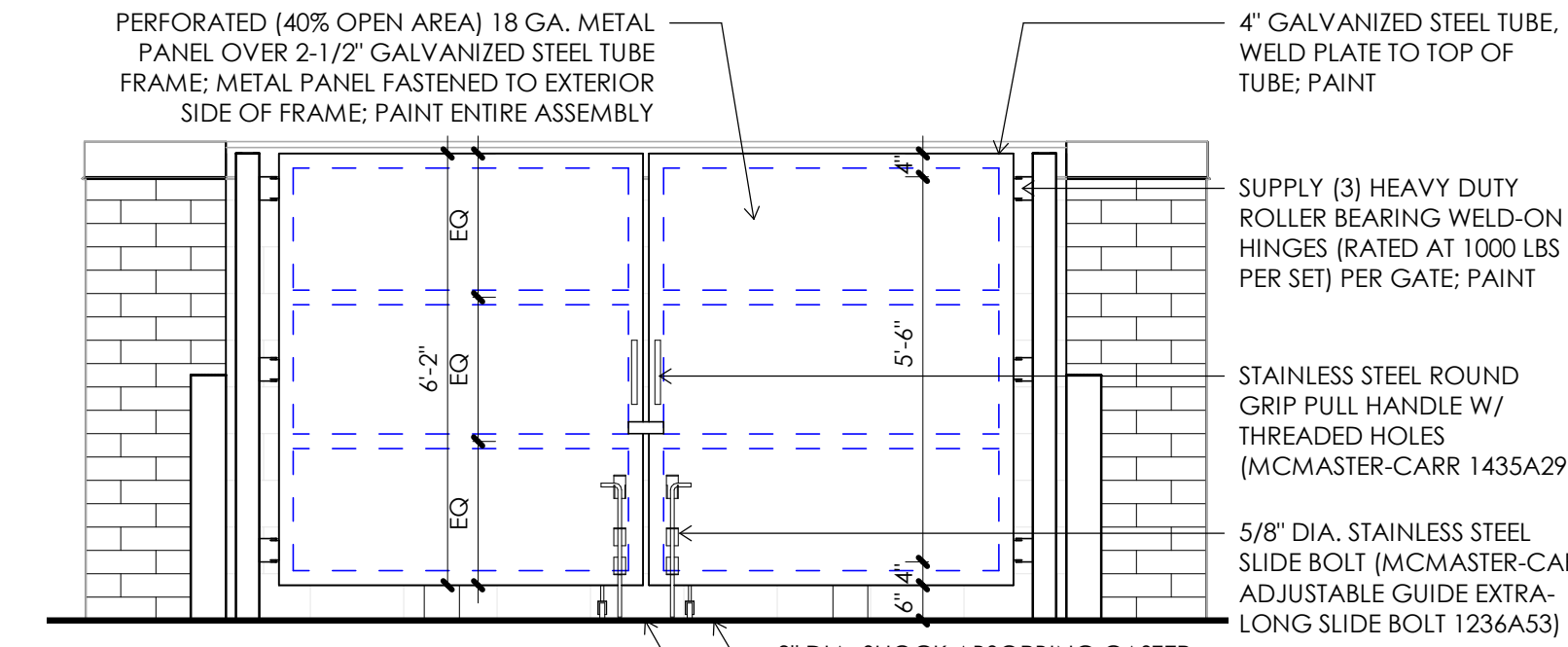
1. CONTRACTOR SHALL VERIFY LOCATION OF ALL UTILITIES PRIOR TO CONSTRUCTION.
2. ALL DIMENSIONS ARE TO BACK OF CURB UNLESS OTHERWISE NOTED.
3. FINAL LOCATION OF TRANSFORMER TO BE VERIFIED WITH ELECTRICAL ENGINEER.
4. REFER TO CIVIL DRAWINGS FOR SITE GRADING, SITE LAYOUT, ROAD/PARKING LOT DETAILS AND EROSION CONTROL METHODS.
5. REFER TO LANDSCAPE DRAWINGS FOR ALL INFORMATION REGARDING LANDSCAPE & IRRIGATION SCOPE.
6. REFER TO MEP DRAWINGS FOR ALL SITE LIGHTING.
7. REFER TO GEOTECHNICAL REPORT FOR EXISTING SOIL CONDITIONS.
8. PROTECT ADJACENT PRIVATE, PUBLIC AND STREAM CORRIDOR PROPERTY.
9. REFER TO ARCHITECTURAL FLOOR PLANS FOR BOLLARD LOCATIONS.
10. REFER TO SURVEY (INCLUDED IN THIS SET) FOR MORE INFORMATION CONCERNING EXISTING CONDITIONS.

SITE PLAN NOTES:

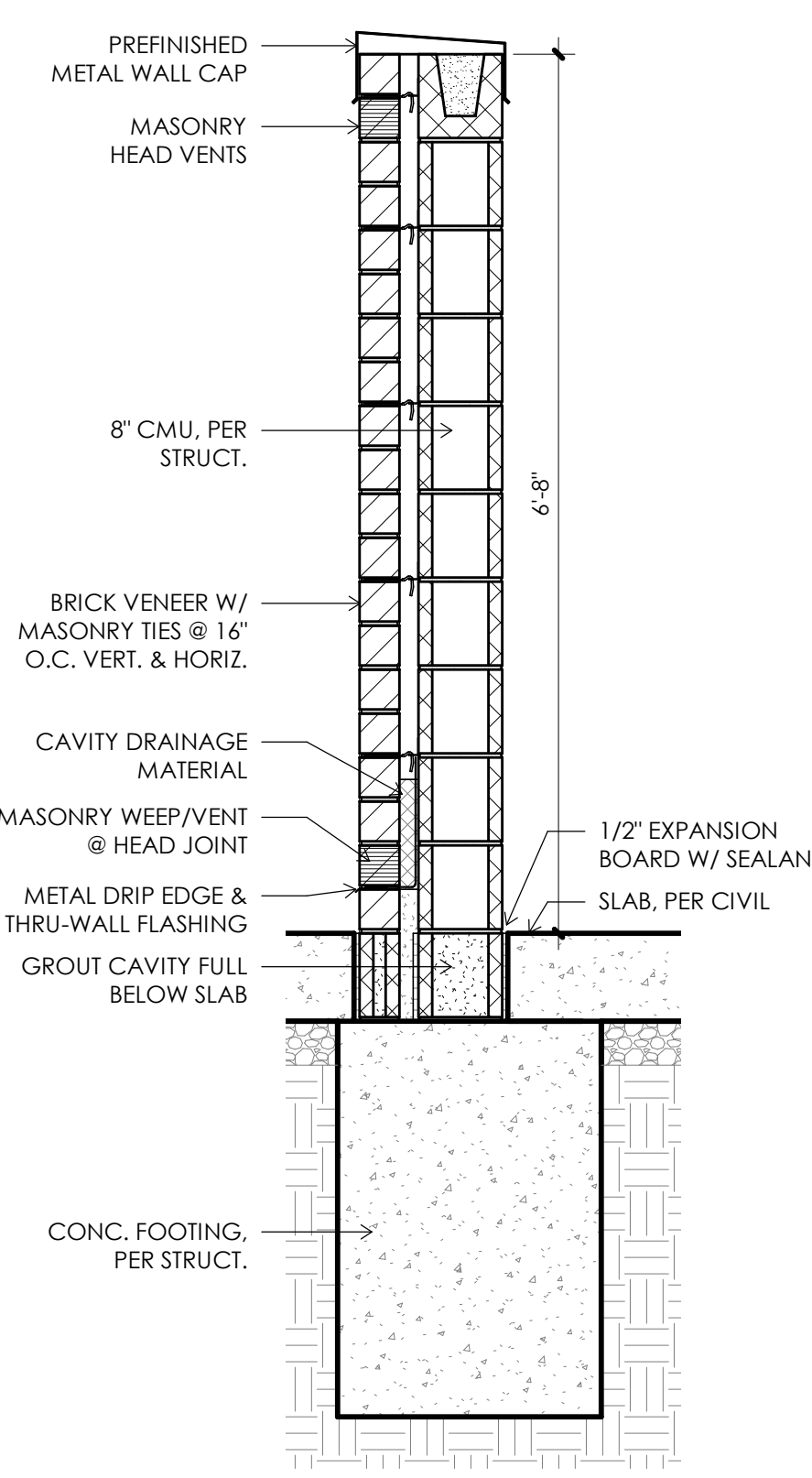
1. CONCRETE PAVING; PER CIVIL
2. CONCRETE WALK; PER CIVIL
3. 25' TALL FLAGPOLE; REFER TO SPECS.
4. TRASH ENCLOSURE; REFER TO DETAILS
5. EMERGENCY GENERATOR; PER MEP
6. MONUMENT SIGN; REFER TO DETAILS
7. 48" TALL MECHANICAL SCREEN WALL SIMILAR TO FB/SP1.01; ALTERNATE #2
8. 48" TALL SITE PARKING SCREEN WALL PER A3/A3.03; ALTERNATE #3



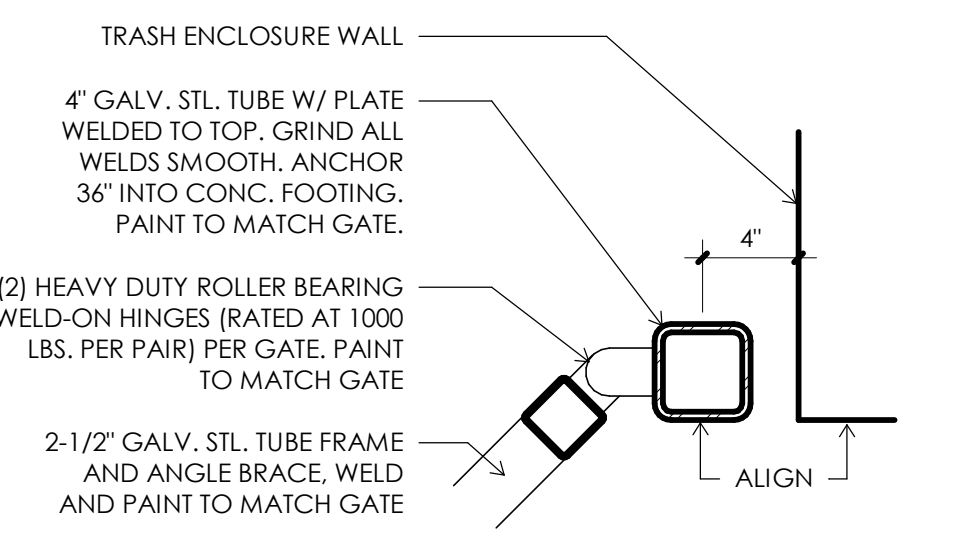
J7 SIDE ELEVATION
3/8" = 1'-0"



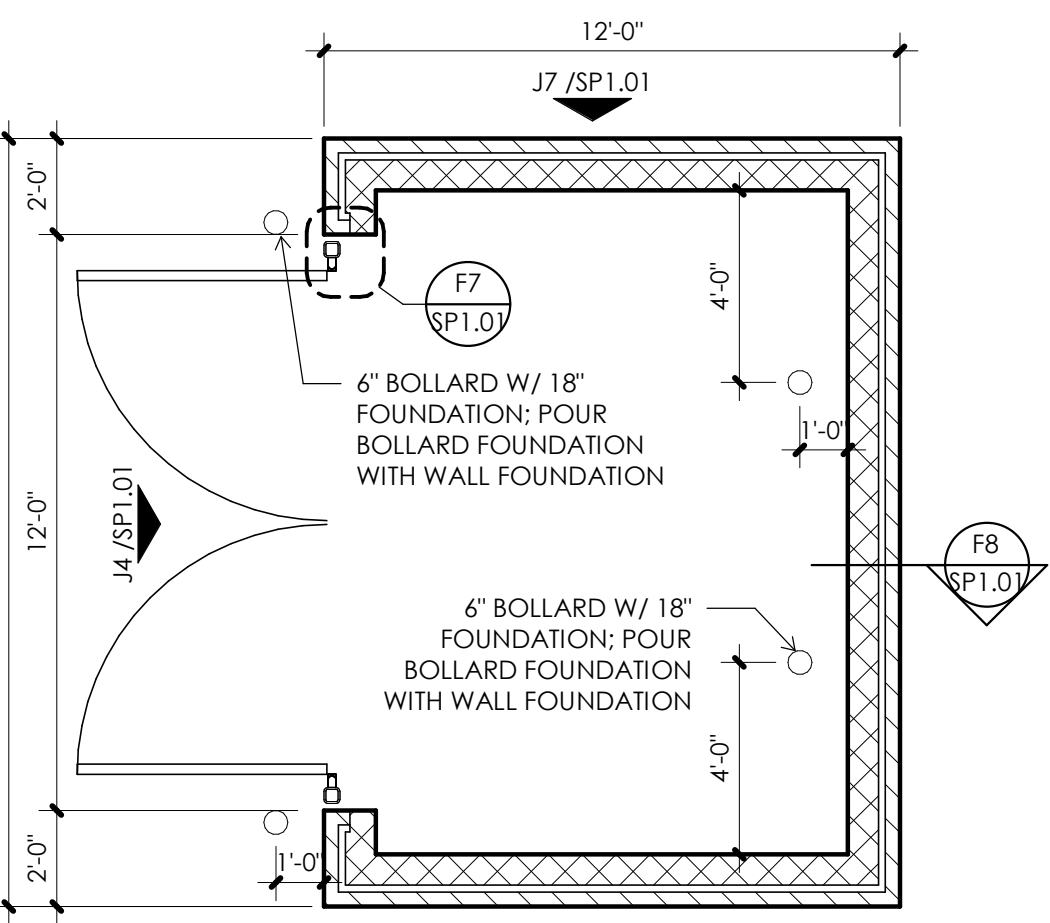
J4 FRONT ELEVATION
3/8" = 1'-0"



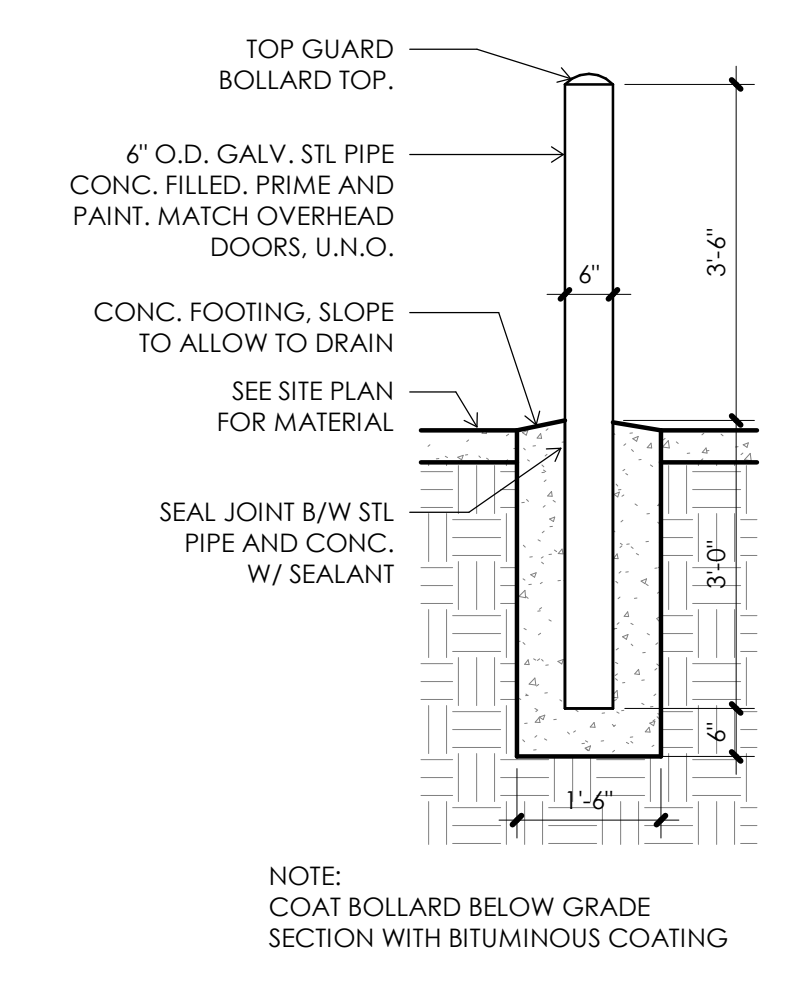
F8 WALL SECTION
3/4" = 1'-0"



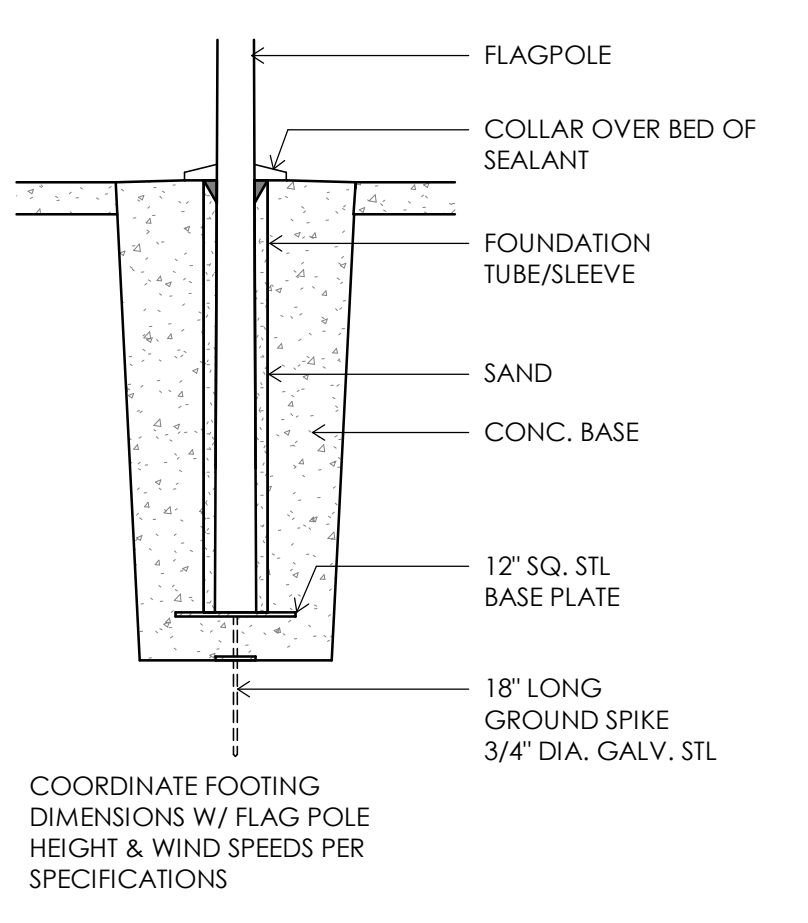
F7 TRASH ENCLOSURE DETAIL
1 1/2" = 1'-0"



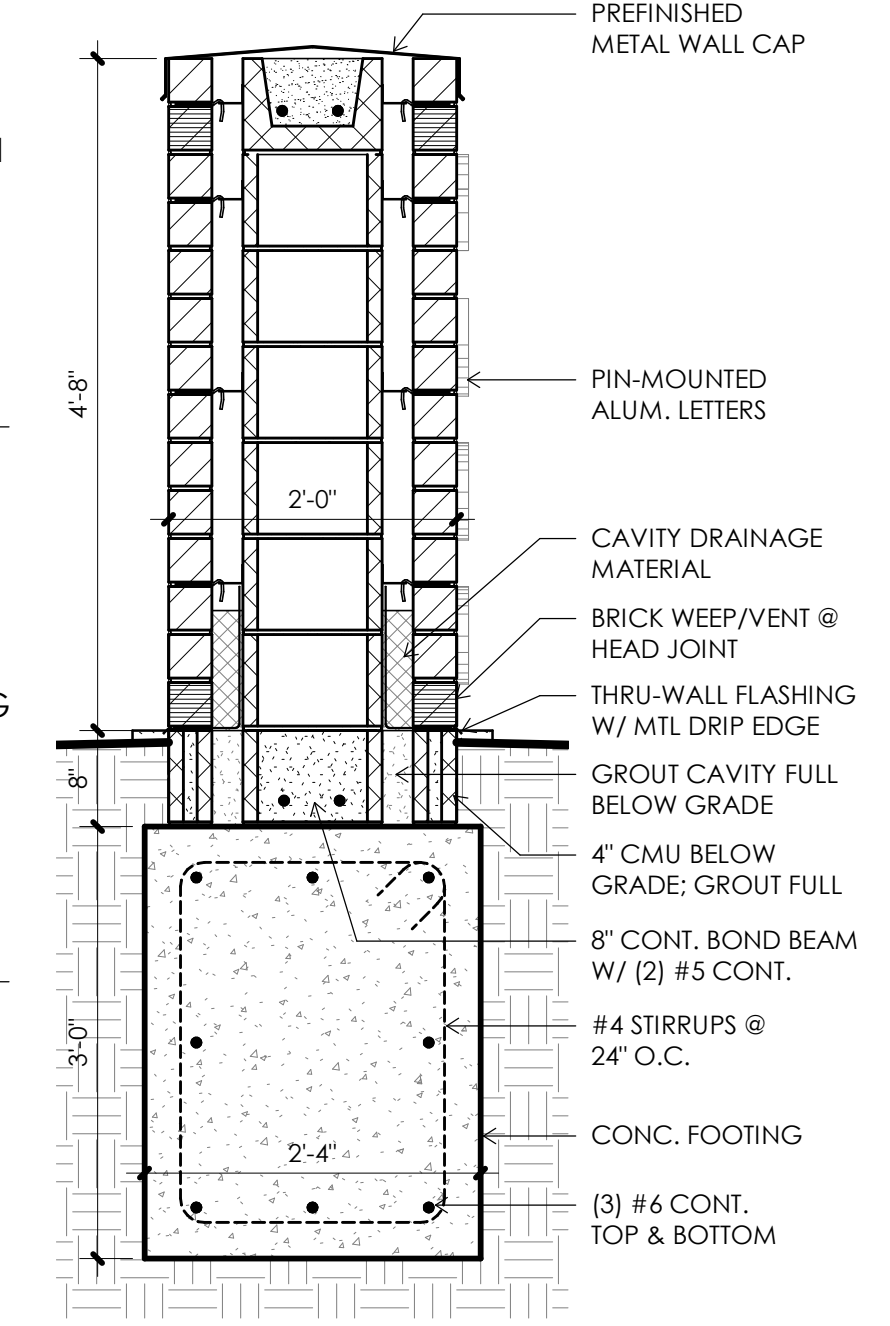
F5 TRASH ENCLOSURE PLAN
1/4" = 1'-0"



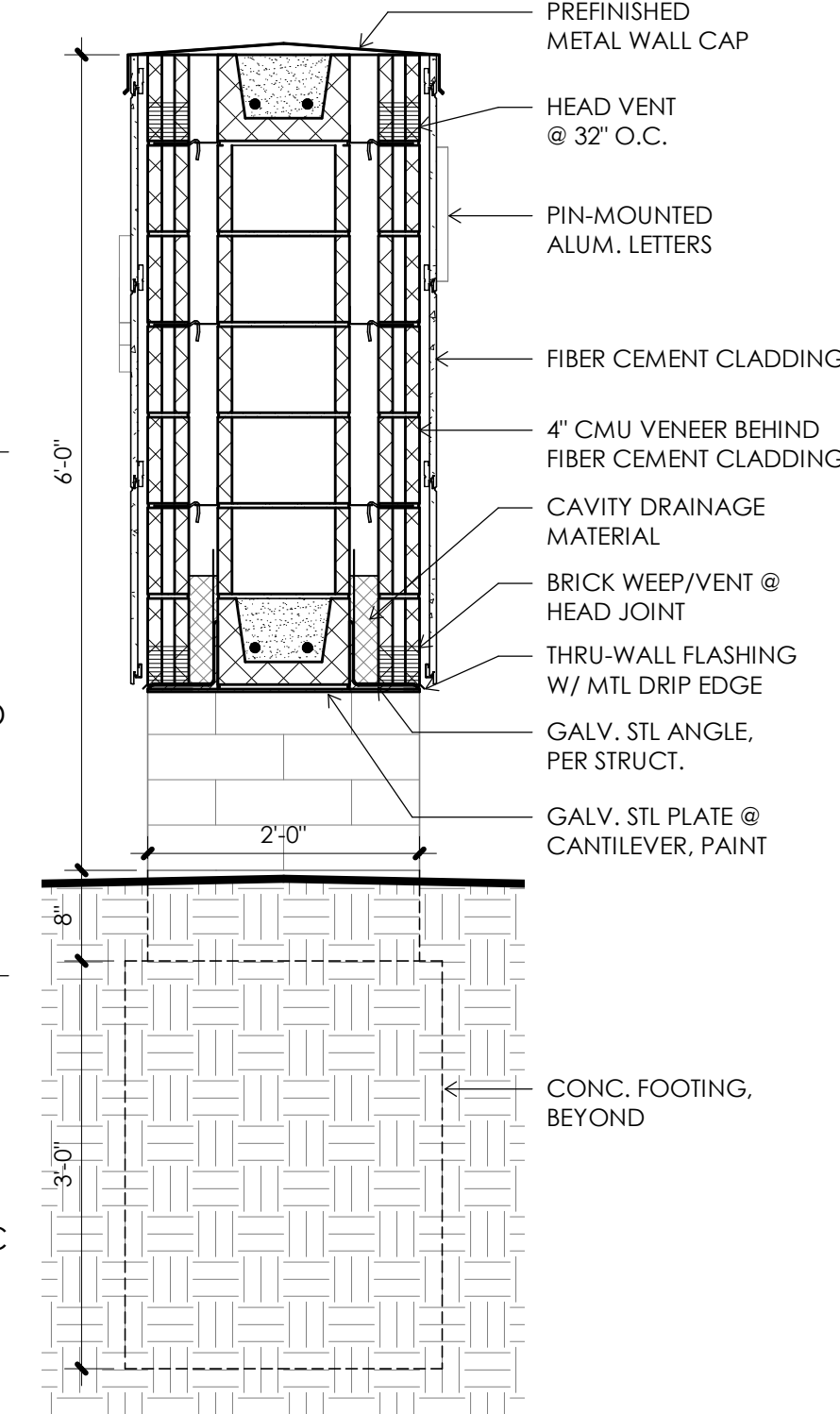
F3 BOLLARD DETAIL
1/2" = 1'-0"



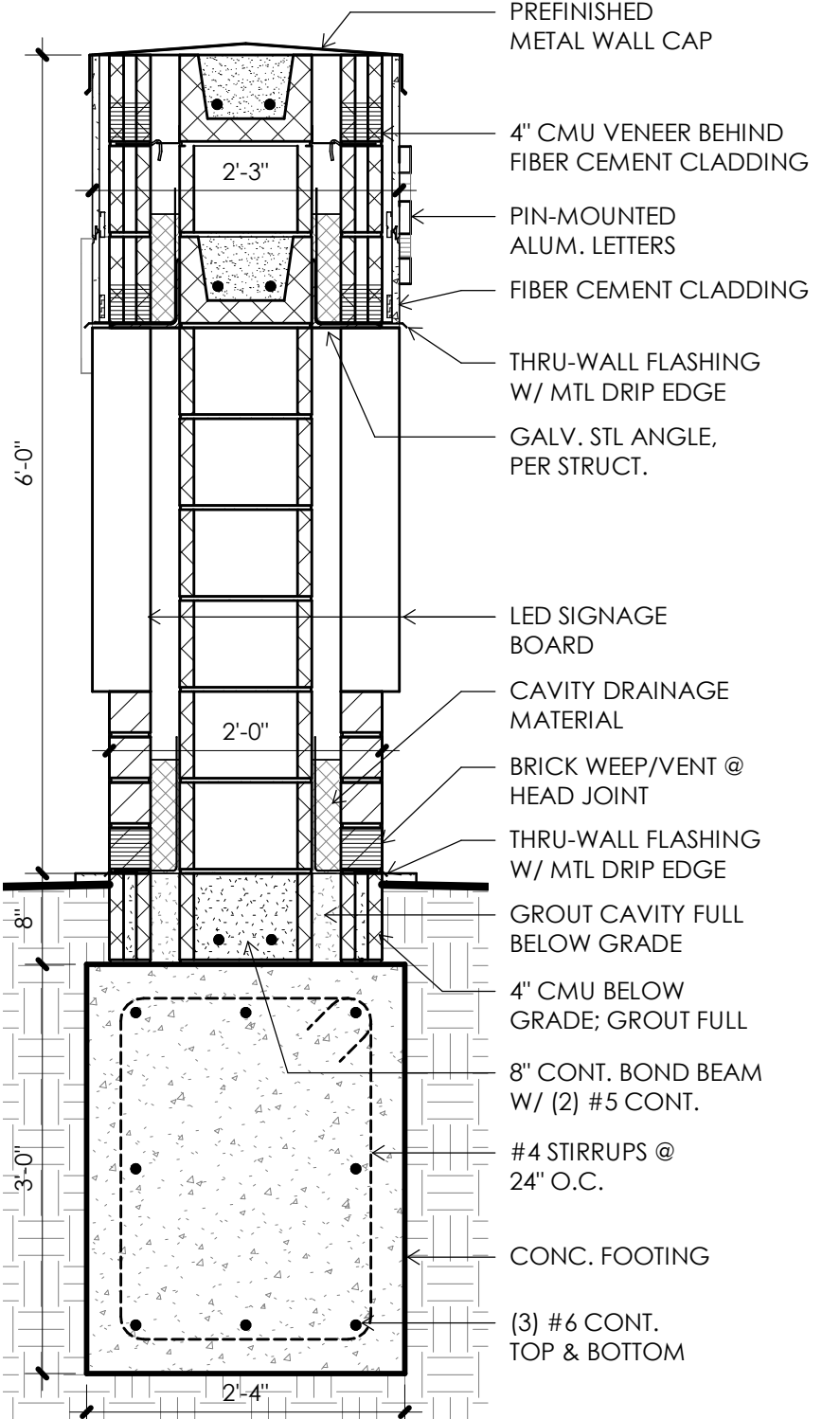
F1 FLAG BASE DETAIL
1/2" = 1'-0"



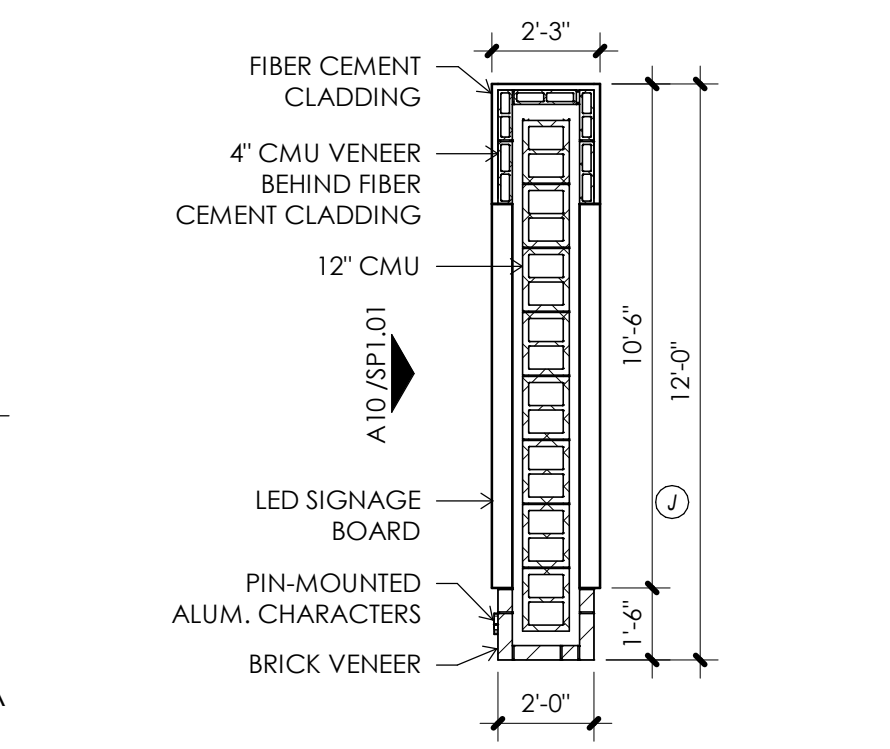
F12 WALL SECTION
3/4" = 1'-0"



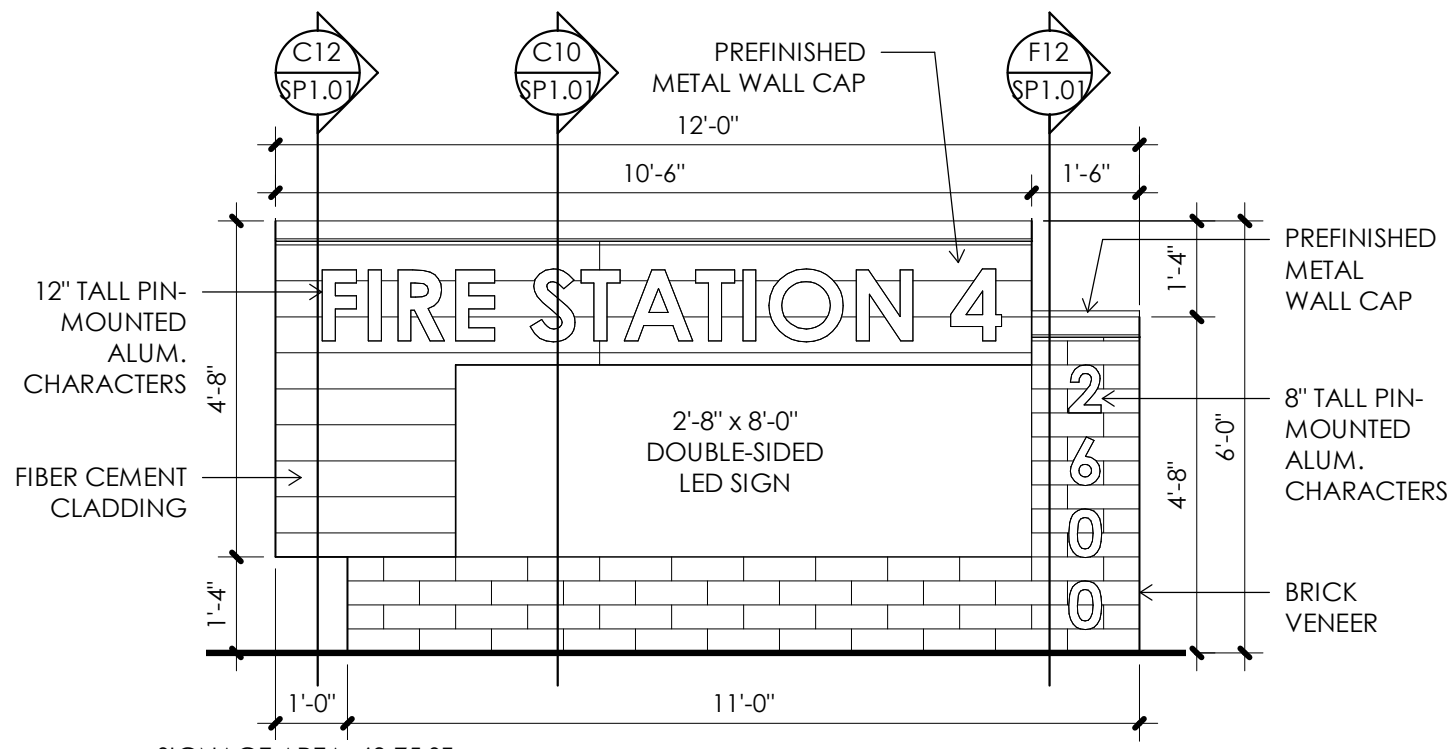
C12 WALL SECTION
3/4" = 1'-0"



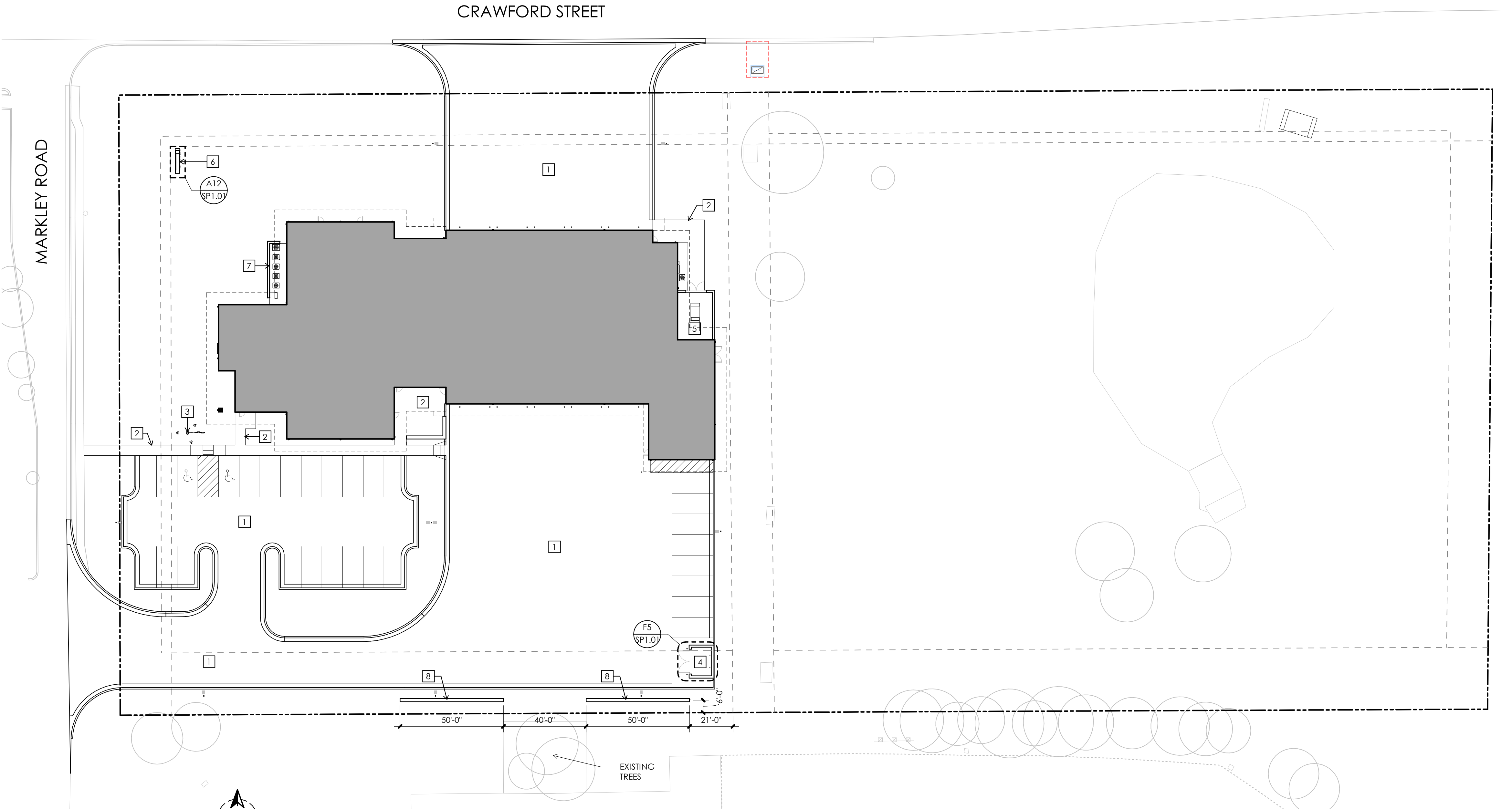
C10 WALL SECTION
3/4" = 1'-0"



A12 MONUMENT SIGN
1/4" = 1'-0"



A10 FRONT ELEVATION
3/8" = 1'-0"



A8 SITE PLAN
1" = 30'-0"

JOB NUMBER 22003

SALINA FIRE STATION #4
EAST CRAWFORD STREET
& MARKLEY ROAD
SALINA, KS 67401
CITY OF SALINA
755 Minnesota Ave., Suite 662 Kansas City, Kansas 66101 Tel. 816.300.4101 Fax 816.300.4102



Douglas Boe - Architect
KS # 8101
ISSUE DATE 09/09/2024
No. Description Date

WSKF, Inc. © 2024

SITE PLAN
SP1.01

9/9/2024 10:30:20 AM
C:\Users\MattMcCarthy\Desktop\Revit\22003_Salina Station_4_CENTRAL_mmcCarthy@valdtech.com.rvt



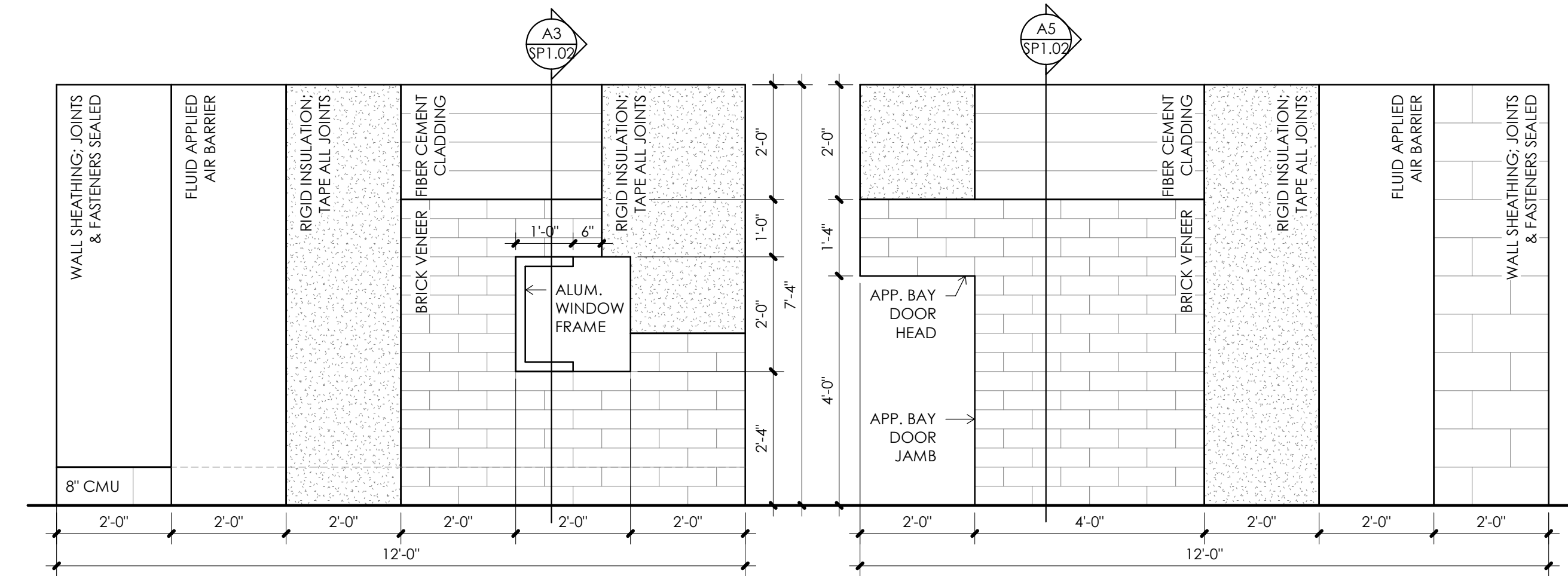
Kansas Certificate of Authority #A-516

CIVIL ENGINEER
KAW Valley Engineering
KS Certificate of Authority #29241
1627 Sunflower Lane
Salina, KS 67401
785-823-3400

Structural Engineer
Bob D. Campbell & Co.
KS Certificate of Authority
#000442
4338 Bellview
Kansas City, MO 64111
816-778-7149

M/E/P Engineer
PKMR Engineers, Inc.
KS Certificate of Authority
#E-2002020886
13300 W. 98th St.
Lenexa, KS 66215
913-492-2400

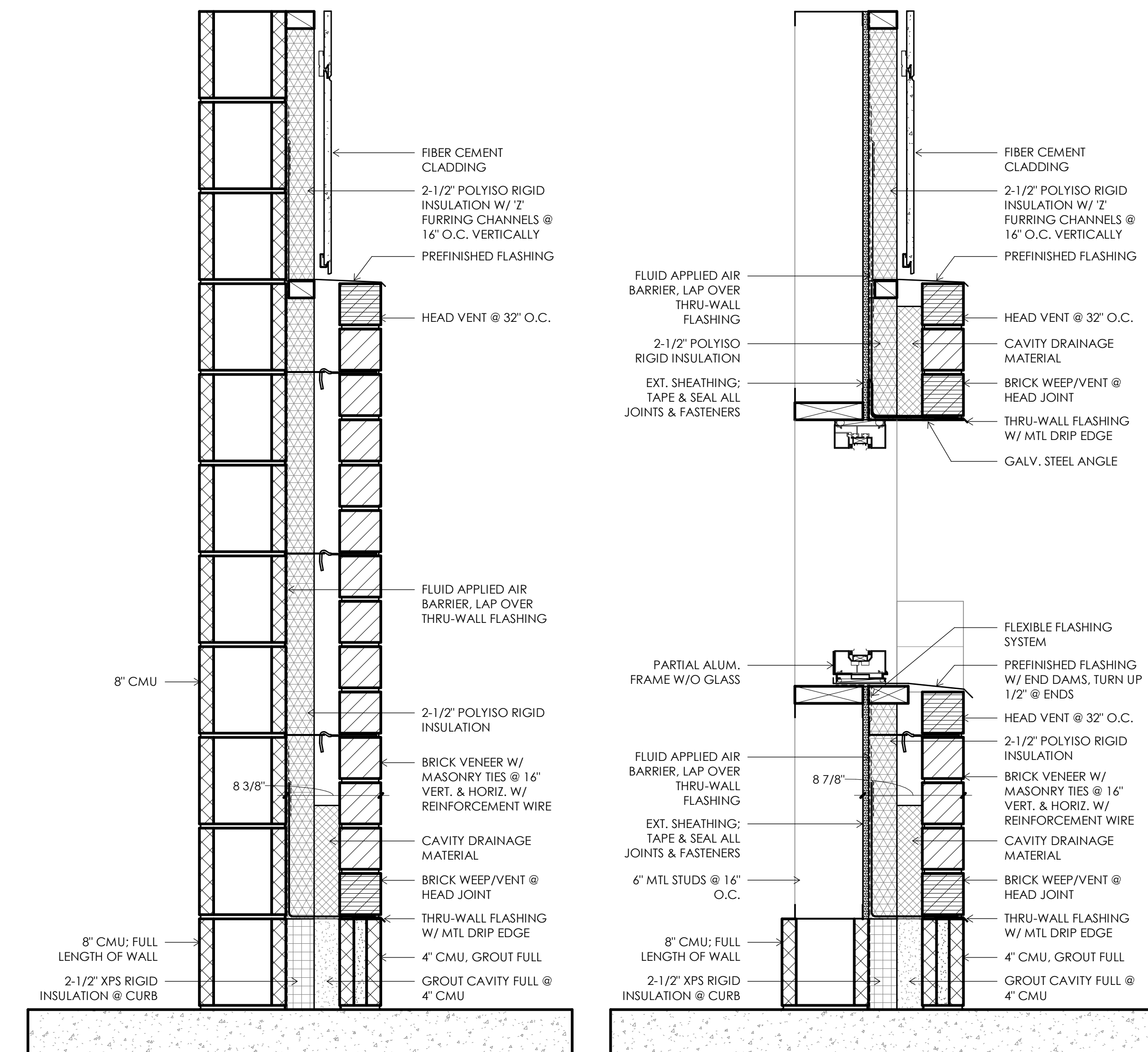
JOB NUMBER 22003



- NOTE:**
1. BASE WALL FLASHING TO RUN FULL WIDTH OF ENTIRE WALL PER DETAIL A6/A3.03 & A9/A3.03.
 2. MASONRY WALL TIES TO RUN FULL WIDTH OF ENTIRE WALL EXCEPT AT SHEATHING PORTION. AT CORRECT VERTICAL AND HORIZONTAL SPACING PER DWGS/SPECS.
 3. INSTALL WINDOW SILL FLASHING PER DETAIL J11/A6.02. LEAVE OUT 8" LONG LENGTH OF FLASHING FOR ARCHITECT TO VIEW AIR BARRIER SILL DETAIL.
 4. WINDOW JAMB SHOULD MATCH DETAIL E2/A6.02. LEAVE OUT BRICK RETURN FROM OPPOSITE SIDE OF WINDOW FRAME OF OPENING JAMB FOR ARCHITECT TO VIEW AIR BARRIER JAMB DETAIL.
 5. Z FURRING CHANNELS TO RUN FULL WIDTH OF CMU WALL AT THE PREFINISHED METAL WALL PANEL.
 6. APPARATUS BAY DOOR JAMB AND HEAD MOCK-UP CONSTRUCTION TO MATCH DETAILS H12/A1.02 & E11/A6.02.
 7. WALL MOCK-UP TO BE BUILT ON 8' X 8' X 16' CMU TO ACT AS CONCRETE FLOOR/FOUNDATION.
 8. BRACE WALL AS NECESSARY TO STAND DURING FULL DURATION WALL CONSTRUCTION.
 9. WALL MOCK-UP TO BE FULLY CONSTRUCTED PRIOR TO BUILDING WALL CONSTRUCTION FOR ARCHITECT TO REVIEW AND APPROVE.

WALL MOCK-UP ELEVATION F5

1/2" = 1'-0"



A5 WALL MOCK-UP SECTION
1 1/2" = 1'-0"

A3 WALL MOCK-UP SECTION
1 1/2" = 1'-0"

SALINA FIRE STATION #4

EAST CRAWFORD STREET
& MARKLEY ROAD
SALINA, KS 67401
CITY OF SALINA



Douglas Boe - Architect
KS # 8101

ISSUE DATE 09/09/2024
No. Description Date

WSKF, Inc. © 2024

WALL MOCK-UP DETAILS

SP1.02



Kansas Certificate of Authority #A-516

CIVIL ENGINEER
KAW Valley Engineering
KS Certificate of Authority #29241
1627 Sunflower Lane
Salina, KS 67401
785-823-3400

MEP ENGINEER
PKM Engineers, Inc.
KS Certificate of Authority #E-2002020886
13300 W. 98th St.
Lenexa, KS 66215
913-492-2400

JOB NUMBER 22003

SALINA FIRE STATION #4
EAST CRAWFORD STREET & MARKLEY ROAD
SALINA, KS 67401
CITY OF SALINA
756 Minnesota Ave., Suite 662 Kansas City, Kansas 66101 Tel. 816.300.4101 Fax 816.300.4102



Douglas Boe - Architect
KS # 8101

ISSUE DATE 09/09/2024
No. Description Date

WSKF, Inc. © 2024

CODE REVIEW

A0.01

ROOM OCCUPANCY SCHEDULE					
NO.	ROOM NAME	OCCUPANCY TYPE	AREA	SF PER PERSON	# OF OCCUPANTS
105	DATA	B	99 SF	300	1
106	TRAINING ROOM	B	674 SF	15	45
107	TRAINING ROOM STORAGE	B	60 SF	300	1
108	MECHANICAL	B	76 SF	300	1
110	DAYROOM	B	556 SF	100	6
111	KITCHEN/DINING	B	459 SF	100	7
114	BUNK 1	R-2	129 SF	200	1
115	BUNK 2	R-2	126 SF	200	1
116	BUNK 3	R-2	126 SF	200	1
119	STORAGE	R-2	45 SF	300	1
120	PERSONNEL LAUNDRY	R-2	93 SF	300	1
121	BUNK 4	R-2	136 SF	200	1
122	BUNK 5	R-2	137 SF	200	1
123	BUNK 6	R-2	138 SF	200	1
124	BUNK 7	R-2	137 SF	200	1
125	BUNK 8	R-2	137 SF	200	1
126	BUNK ROOM	R-2	435 SF	200	3
129	JANITOR	B	34 SF	300	1
130	EMS REPORT/ CREW OFFICE	B	168 SF	100	2
132	GENERAL STORAGE	B	83 SF	300	1
133	ICE	B	81 SF	300	1
135	CAPTAIN OFFICE	B	229 SF	100	3
139	APPARATUS BAY	S-2	7798 SF	200	39
140	HOSE STORAGE	S-2	64 SF	300	1
141	GEAR STORAGE/ STORM SHELTER	S-2	272 SF	50	6
142	GEAR WASH/ DECON	S-2	253 SF	300	1
143	WATER	S-2	79 SF	300	1
144	ELECTRICAL	S-2	107 SF	300	1
145	SCBA	S-2	107 SF	300	1
146	WORKSHOP/ STORAGE	S-2	182 SF	300	1
147	MECH	S-2	65 SF	300	1
150	FITNESS	B	1191 SF	50	24
151	EXTERIOR STORAGE	B	209 SF	300	1
201	MEZZANINE	S-2	281 SF	300	1
					160

ADOPTED CODES SALINA, KS

2012 INTERNATIONAL BUILDING CODE
2012 INTERNATIONAL PLUMBING CODE
2012 INTERNATIONAL MECHANICAL CODE
2011 NATIONAL ELECTRICAL CODE
2012 INTERNATIONAL FIRE CODE
2009 INTERNATIONAL ENERGY CONSERVATION CODE
2010 ADA STANDARDS
2009 ANSI A117.1
2014 ICC 500

LEGEND

15 → DIRECTION OF TRAVEL
15 → COMBINED OCCUPANCY LOAD
15 → DIRECTION OF TRAVEL
15 → ROOM OCCUPANCY LOAD

FE FIRE EXTINGUISHER & BRACKET
FEC 1 FIRE EXTINGUISHER & CABINET
FEC 2 TYPE 'K' FIRE EXTINGUISHER & CABINET

1 HOUR RATED PARTITION - UL U-432

ENERGY EFFICIENCY TABLE

ZONE
4A

OPAQUE THERMAL ENVELOPE
ROOF
INSULATION ABOVE DECK - R-30ci (U-0.032)

WALLS, ABOVE GRADE
MASS: R-9.5ci (U-0.104)
METAL FRAMED: R-13 + R-7.5ci (U-0.064)

WALLS, BELOW GRADE
R-7.5ci (U-0.119)

UNHEATED SLABS
R-10 FOR 24" BELOW (F-0.54)

OPAQUE DOORS
SWINGING - U-0.61 (R-1.64)
NONSWINGING - R-4.75

VERTICAL FENESTRATION
ENTRANCE DOOR
U-0.77
FIXED FENESTRATION
U-0.38
OPERABLE FENESTRATION
U-0.45

CODE REVIEW INFORMATION

CONSTRUCTION TYPE
V-B
BUILDING IS FULLY SPRINKLERED

USE AND OCCUPANCY
GROUP B, R-2, S-2

OCCUPANCY COUNT CALCULATION
REFER TO ROOM OCCUPANCY SCHEDULE & CODE PLAN
TOTAL OCCUPANCY: 160

CHAPTER 4 SPECIAL REQUIREMENTS
SEPARATION WALLS (PER 402.2)
WALLS SEPARATING SLEEPING UNITS FROM OTHER OCCUPANCIES CONTIGUOUS TO THEM IN THE SAME BUILDING SHALL BE CONSTRUCTED AS FIRE PARTITIONS

CHAPTER 5 GENERAL BUILDING HEIGHTS AND AREAS
BUILDING HEIGHT (PER TABLE 503)
GROUP B (MOST RESTRICTIVE)
ALLOWABLE 2 STORIES (40 FT)
ACTUAL 1 STORY (30 FT)

BUILDING AREA (PER TABLE 503)
GROUP R-2 (MOST RESTRICTIVE)
ALLOWABLE 7,000 SF
SPRINKLER INCREASE (300% PER 506.3)
ADJUSTED ALLOWABLE 28,000 SF
ACTUAL 19,600 SF

NONSEPARATED OCCUPANCIES (PER 508.3)
NO SEPARATION IS REQUIRED BETWEEN OCCUPANCIES

CHAPTER 6 TYPE OF CONSTRUCTION
FIRE RESISTANCE REQUIREMENTS (TABLE 601)
STRUCTURAL FRAME 0 HR
EXTERIOR BEARING WALLS 0 HR
INTERIOR BEARING WALLS 0 HR
INTERIOR NON-BEARING WALLS 0 HR
FLOOR CONSTRUCTION 0 HR
ROOF CONSTRUCTION 0 HR

CHAPTER 7 FIRE AND SMOKE PROTECTION FEATURES
FIRE PARTITION FIRE-RESISTANCE RATING (PER 708.3)
FIRE PARTITIONS SHALL HAVE A FIRE-RESISTANCE RATING OF NOT LESS THAN 1 HOUR

CHAPTER 8 INTERIOR FINISHES
FINISH REQUIREMENTS BY OCCUPANCY (TABLE 803.9)
EXIT STAIRWAY & PASSAGEWAY B
CORRIDORS C
ROOMS & ENCLOSED SPACES C

CHAPTER 9 FIRE PROTECTION SYSTEMS
PORTABLE FIRE EXTINGUISHERS (PER 906.3)
2-A RATED EXTINGUISHER
MAX FLOOR AREA PER UNIT 11,250 SF
MAX TRAVEL DISTANCE 75 FT
CLASS K-RATED PORTABLE EXTINGUISHER AT KITCHEN

CHAPTER 10 MEANS OF EGRESS
MEANS OF EGRESS SIZING
SEE CODE PLAN FOR WIDTHS AT EACH EXIT
EXIT ACCESS TRAVEL DISTANCE (PER TABLE 1016.2)
REQUIRED 250 FT
PROVIDED 112 FT

CORRIDOR FIRE-RESISTANCE RATING (TABLE 1018.1)
EACH BUNK HAS OPENING IN WALL, ABOVE THE DOOR, INTO CORRIDOR 113 AND IS CONSIDERED AN OPEN AIR ENVIRONMENT. CORRIDOR AND BUNK ROOMS SERVED ARE TREATED AS ONE LARGE SLEEPING AREA. CORRIDOR SERVING LESS THAN 10 OCCUPANTS.

CORRIDOR WIDTH (PER TABLE 1018.2)
REQUIRED 44"
PROVIDED 60" MIN.

CHAPTER 29 PLUMBING SYSTEMS
FIXTURE REQUIREMENTS (TABLE 2902.1)
B OCCUPANCY = 94
R-2 OCCUPANCY = 13
S-2 OCCUPANCY = 53

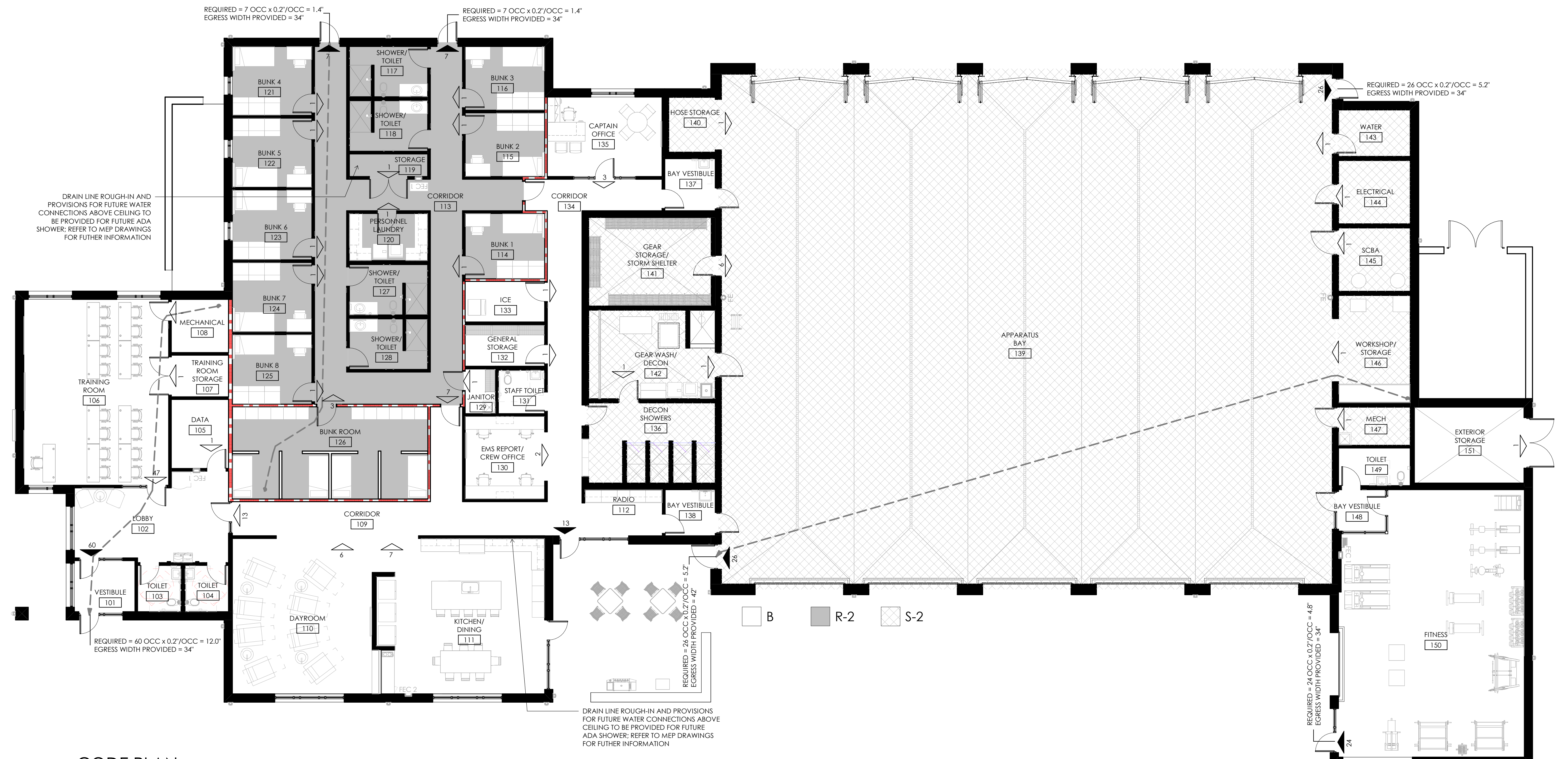
WATER CLOSETS REQUIRED
B OCC = 94 OCC / 2 = 47 OCC
MEN = 1/25 = 47/25 = 1.88 WC
WOMEN = 1/25 = 47/25 = 1.88 WC
R-2 OCC = 13 OCC / 2 = 7 OCC
MEN = 1/10 = 7/10 = 0.7 WC
WOMEN = 1/10 = 7/10 = 0.7 WC
S-2 OCC = 53 OCC / 2 = 27 OCC
MEN = 1/100 = 27/100 = 0.27 WC
WOMEN = 1/100 = 27/100 = 0.27 WC
TOTAL
MEN = 1.88 + 0.7 + 0.27 = 2.85 = **3 WC**
WOMEN = 1.88 + 0.7 + 0.27 = 2.85 = **3 WC**

WATER CLOSETS PROVIDED
UNISEX = **8 WC**

LAVATORIES REQUIRED
B OCC = 94 OCC / 2 = 47 OCC
MEN = 1/40 = 47/40 = 1.18 LAV
WOMEN = 1/40 = 47/40 = 1.18 LAV
R-2 OCC = 13 OCC / 2 = 7 OCC
MEN = 1/10 = 7/10 = 0.7 LAV
WOMEN = 1/10 = 7/10 = 0.7 LAV
S-2 OCC = 53 OCC / 2 = 27 OCC
MEN = 1/100 = 27/100 = 0.27 LAV
WOMEN = 1/100 = 27/100 = 0.27 LAV
TOTAL
MEN = 1.18 + 0.7 + 0.27 = 2.15 = **3 LAV**
WOMEN = 1.18 + 0.7 + 0.27 = 2.15 = **3 LAV**
LAVATORIES PROVIDED
UNISEX = **8 LAV**

DRINKING FOUNTAINS REQUIRED
1/100 = 160/100 = 1.6 = **2 DF**
DRINKING FOUNTAINS PROVIDED
TOTAL = **2 DF**

SERVICE SINK REQUIRED
B OCC = 1 **SERVICE SINK**
SERVICE SINK PROVIDED
TOTAL = **2 SERVICE SINK**



A10 CODE PLAN
1/8" = 1'-0"



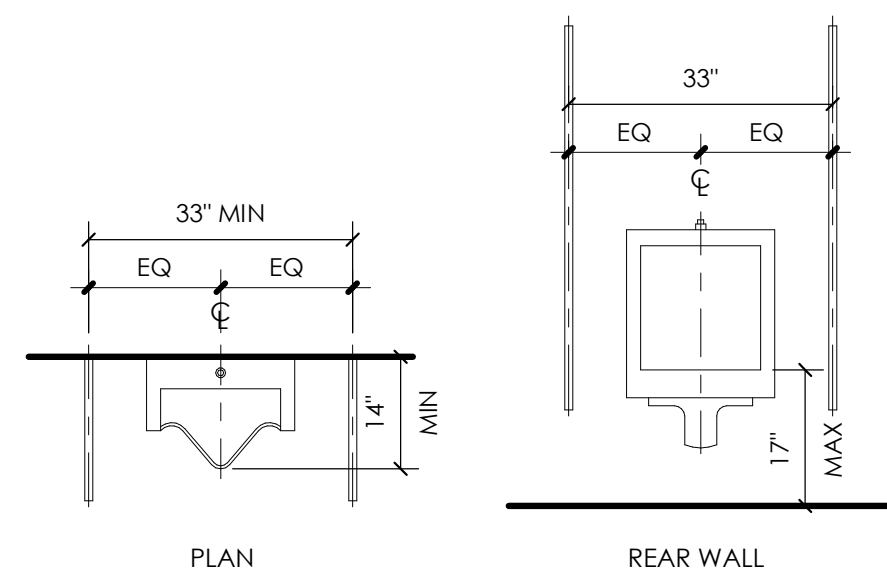
Kansas Certificate of Authority #A-516

CIVIL ENGINEER
KAW Valley Engineering
KS Certificate of Authority #29241
1627 Sunflower Lane
Salina, KS 67401
785-823-3400

Structural Engineer
Bob D. Campbell & Co.
KS Certificate of Authority #000442
4338 Bellview
Kansas City, MO 64111
816-778-7149

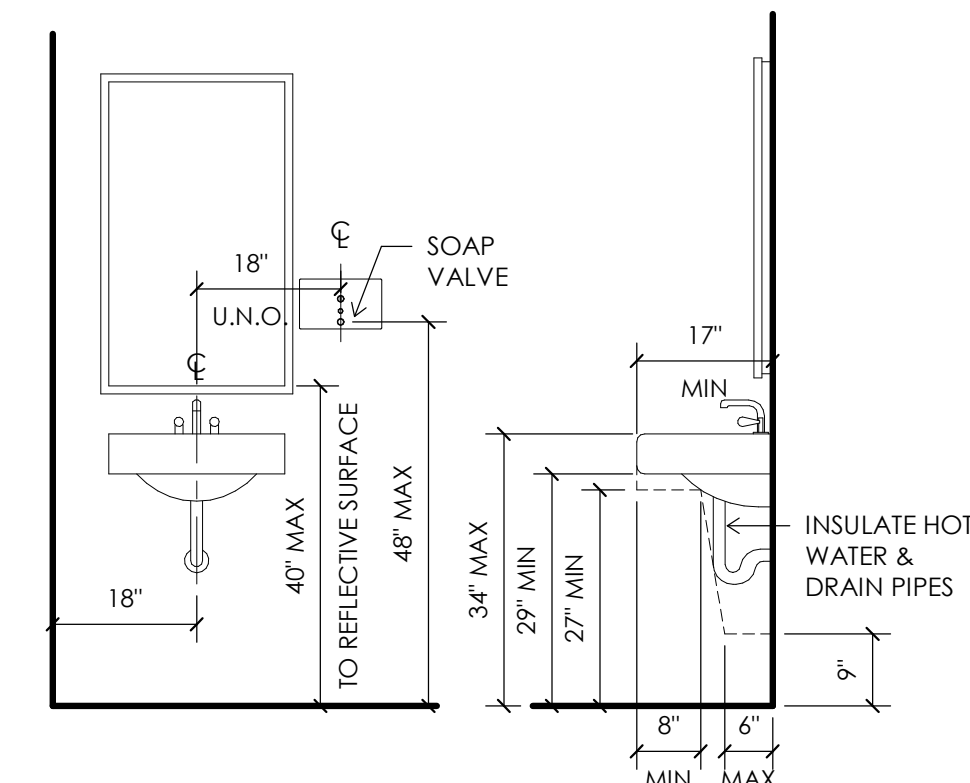
MEP Engineer
PKMR Engineers, Inc.
KS Certificate of Authority #E-2002020886
13300 W. 98th St.
Lenexa, KS 66215
913-492-2400

JOB NUMBER 22003



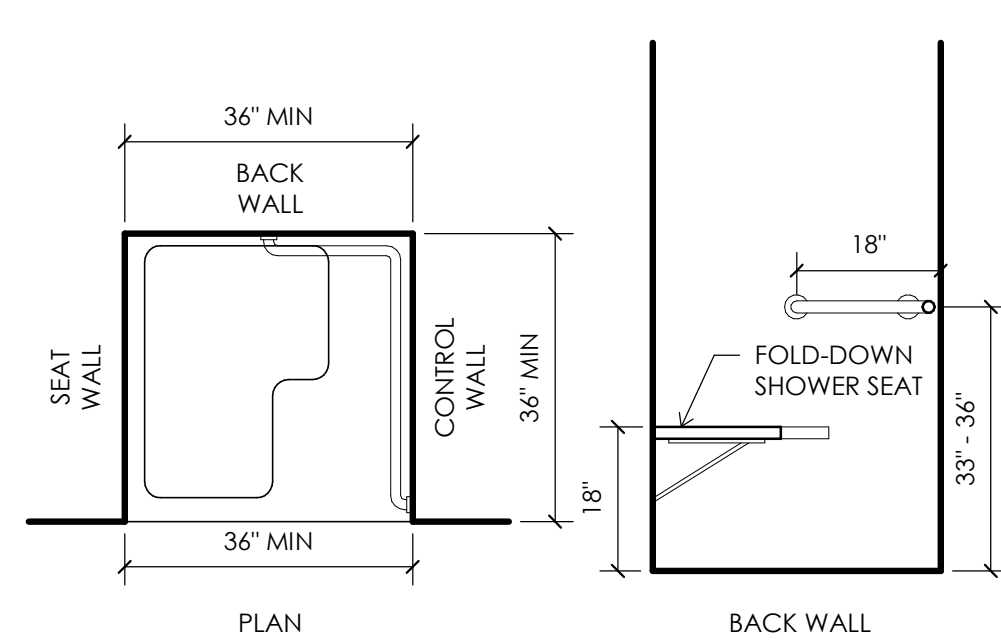
URINAL CLEARANCES

ALL DIMENSIONS ARE TO FINISH FACE OF WALL. **NOT** STUD



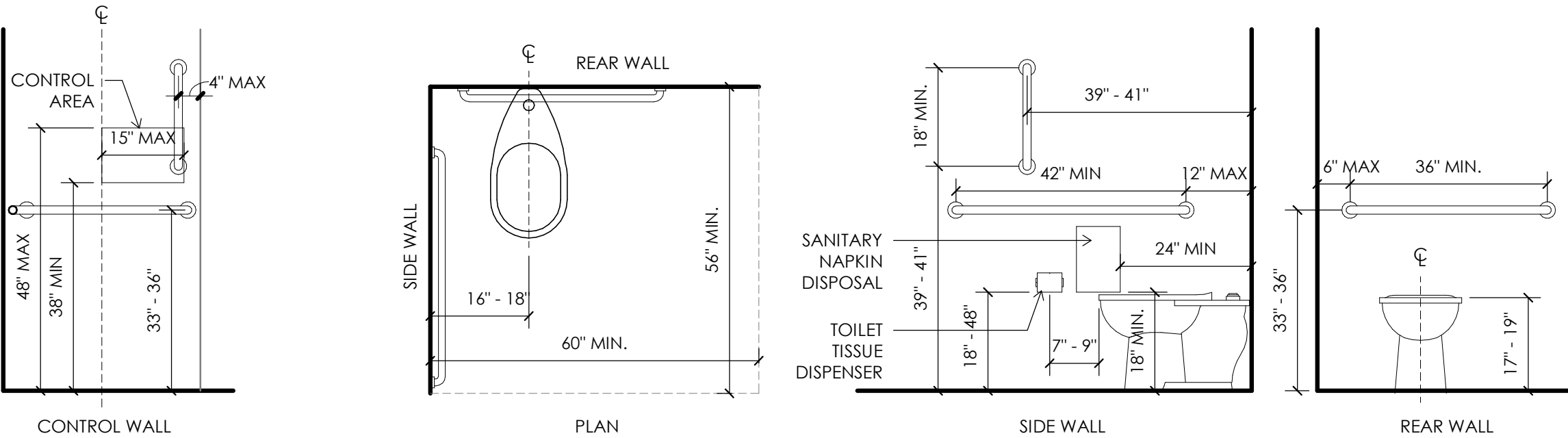
LAVATORY CLEARANCES

ALL DIMENSIONS ARE TO FINISH FACE OF WALL. **NOT** STUD



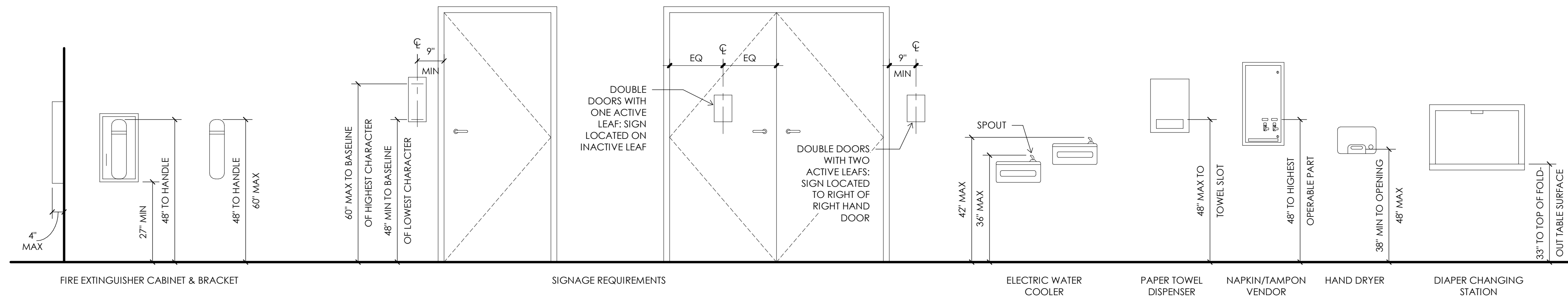
TRANSFER TYPE SHOWER COMPARTMENT

ALL DIMENSIONS ARE TO FINISH FACE OF WALL. **NOT** STUD



WATER CLOSET CLEARANCES

ALL DIMENSIONS ARE TO FINISH FACE OF WALL. **NOT** STUD



ADA TYPICAL MOUNTING HEIGHTS
A7 1/2" = 1'-0"

SALINA FIRE STATION #4

EAST CRAWFORD STREET
& MARKLEY ROAD
SALINA, KS 67401
CITY OF SALINA

755 Minnesota Ave., Suite 662 Kansas City, Kansas 66101 Tel: 816.300.4101 Fax: 816.300.4102



Douglas Boe - Architect
KS # 8101

ISSUE DATE 09/09/2024
No. Description Date

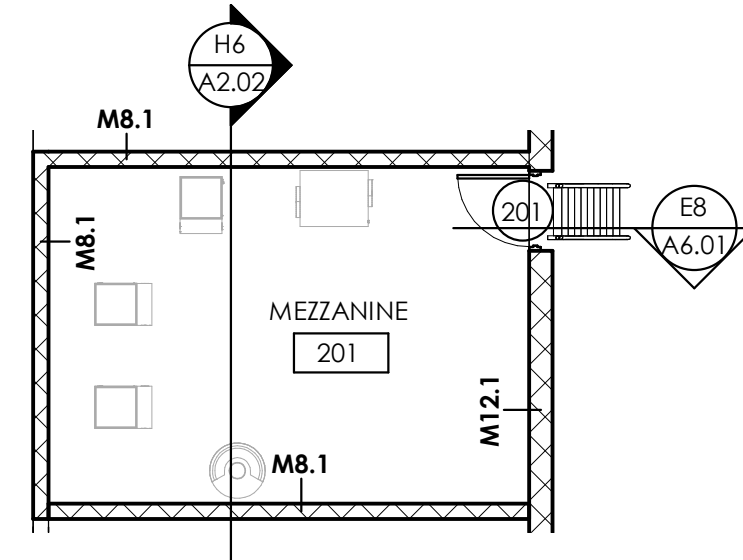
WSKF, Inc. © 2024

ACCESSIBILITY
REFERENCE
DIAGRAMS

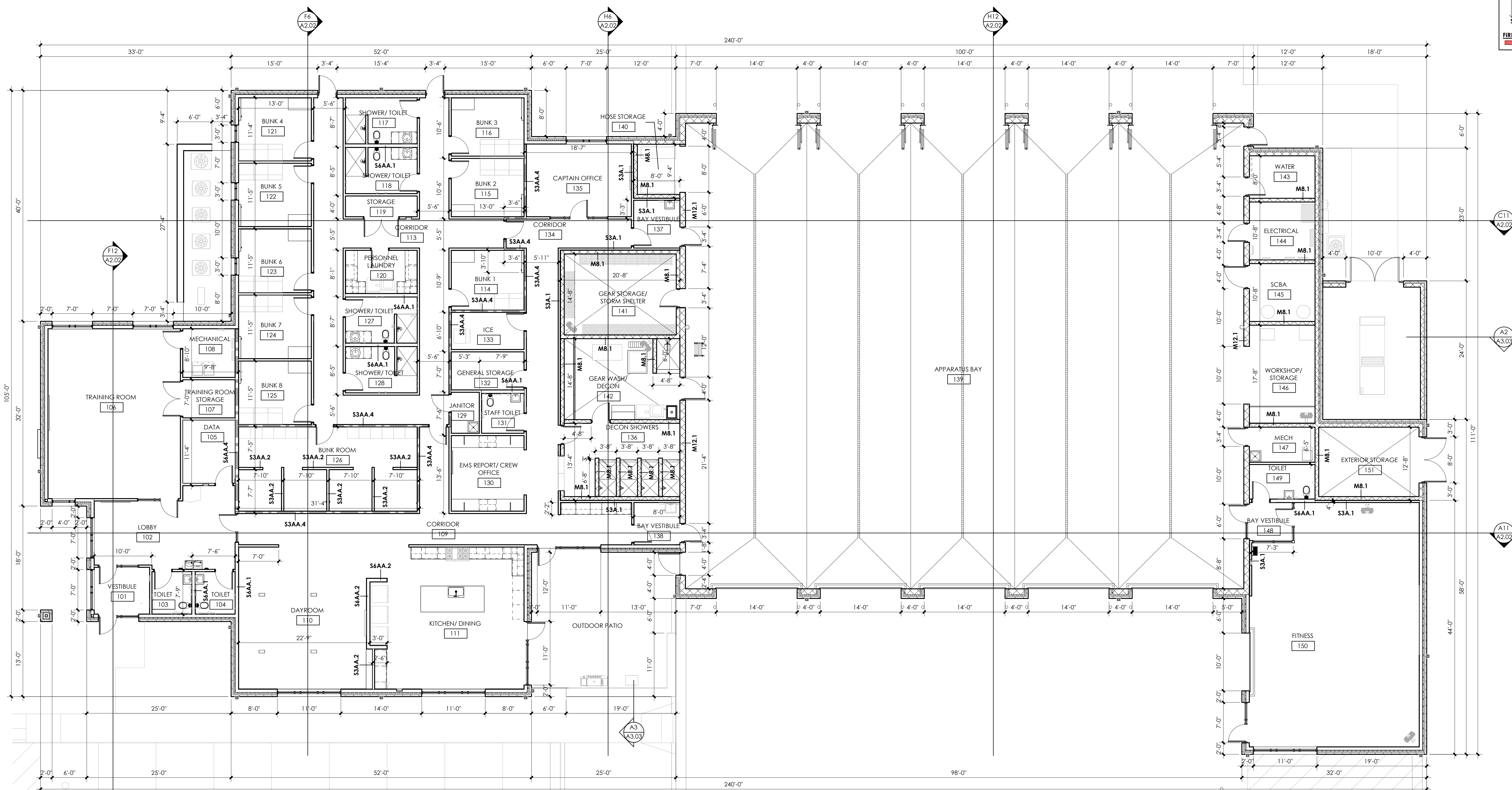
A0.02

9/9/2024 10:23:45 AM
C:\Users\MathMcCaffrey\Desktop\22003_Salina Station 4_CENTRAL_mmccaffrey\vdatch.com.rvt

K
J
H
G
F
E
D
C
B
A



H8 MEZZANINE PLAN
1/8" = 1'-0"



A12 FIRST FLOOR PLAN
1/8" = 1'-0"



PARTITION TYPE LEGEND

BASIC MATERIAL:
M MASONRY (CMU)
S METAL STUD

NOMINAL SIZE:
3 3/8" STUD
4 4" MASONRY
6 6" METAL STUDS
8 8" MASONRY
12 12" MASONRY

APPLIED LAYERS:
A. 1 LAYER 5/8" DRYWALL / TILE BACKING PANEL

MODIFYING CONDITIONS:
1. PROVIDE ACOUSTIC BATT INSULATION: FULL CAVITY WIDTH AND FULL WALL HEIGHT.
2. PARTIAL HEIGHT WALL. REFER TO SECTIONS / ELEVATIONS ON FLOOR PLAN FOR HEIGHT OF WALL.
3. COMPLETE WALL ASSEMBLY EXTENDS TO 6" ABOVE ADJOINING CEILING. BRACE WALL AS REQUIRED.
4. FIRE PARTITION. 1HR - UL U-432. COMPLETE ASSEMBLY TO BE CONTINUOUS UP TO BOTTOM OF ROOF DECK.

GENERAL NOTES:
1. COMPLETE WALL ASSEMBLY IS CONTINUOUS TO GYPSUM BOARD AT BOTTOM OF TRUSS UNLESS CHANGED BY MODIFYING CONDITION.
2. ALL INTERIOR WALL TYPES ARE S3AA.1 UNLESS NOTED OTHERWISE.
3. PROVIDE TILE BACKER BOARD WHERE REQUIRED AS SUBSTRATE FOR FINISHES. REFER TO FINISH SCHEDULE FOR WALL FINISH AND SPECIFICATIONS.
4. PROVIDE MOISTURE RESISTANT DRYWALL PER FINISH SCHEDULE AND SPECIFICATIONS.
5. REFER TO STRUCTURAL DETAILS FOR MASONRY REQUIREMENTS.
6. THE PARTITION CONSTRUCTION WILL MAINTAIN ITS DESIGNATION TO THE POINT OF AN INTERSECTING WALL. IF NO CHANGE IN DESIGNATION IS SHOWN BEYOND THE INTERSECTION, THE PREVIOUS PARTITION DESIGNATION APPLIES TO BOTH.
7. ALL CORRIDORS TO RECEIVE ABUSE RESISTANT DRYWALL TO 4'-0" A.F.F. THESE WALLS ARE TO RECEIVE A LEVEL 5 FINISH.
8. REFERENCE ENLARGED PLANS FOR ADDITIONAL PARTITION CALL OUTS.
9. LEVEL 5 FINISH AT ALL WALL COVERINGS, DEEP TONED PAINTS AND CURVED WALLS.
10. ALL DRYWALL ABOVE FINISH CEILING TO HAVE LEVEL 3 FINISH.
11. REFER TO KEYNOTE PLAN, RCP AND INTERIOR ELEVATIONS FOR CONTROL JOINT LAYOUT.

PARTITION TYPE SYMBOL

--- BASIC MATERIAL
--- NOMINAL SIZE
--- APPLIED LAYERS CODE
--- MODIFYING CONDITIONS CODE

FIRE & SMOKE RATED PARTITION INDICATION
--- FIRE PARTITION: ONE HOUR FIRE RATED



Kansas Certificate of Authority #A-516

CIVIL ENGINEER
KAW Valley Engineering
KS Certificate of Authority #29241
1627 Sunflower Lane
Salina, KS 67401
785-823-3400

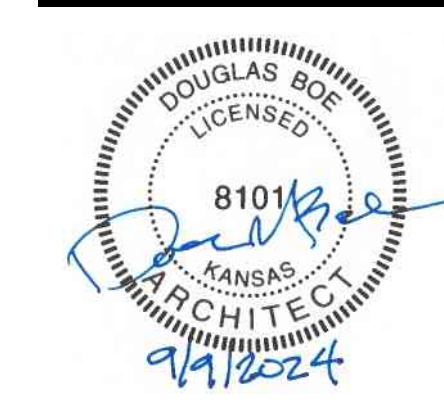
Structural Engineer
Bob D. Campbell & Co.
KS Certificate of Authority #000442
4338 Bellview
Kansas City, MO 64111
816-778-7149

MEP Engineer
PKMR Engineers, Inc.
KS Certificate of Authority #E-202020886
13300 W. 98th St.
Lenexa, KS 66215
913-492-2400

JOB NUMBER 22003

SALINA FIRE STATION #4

EAST CRAWFORD STREET
& MARKLEY ROAD
SALINA, KS 67401
CITY OF SALINA



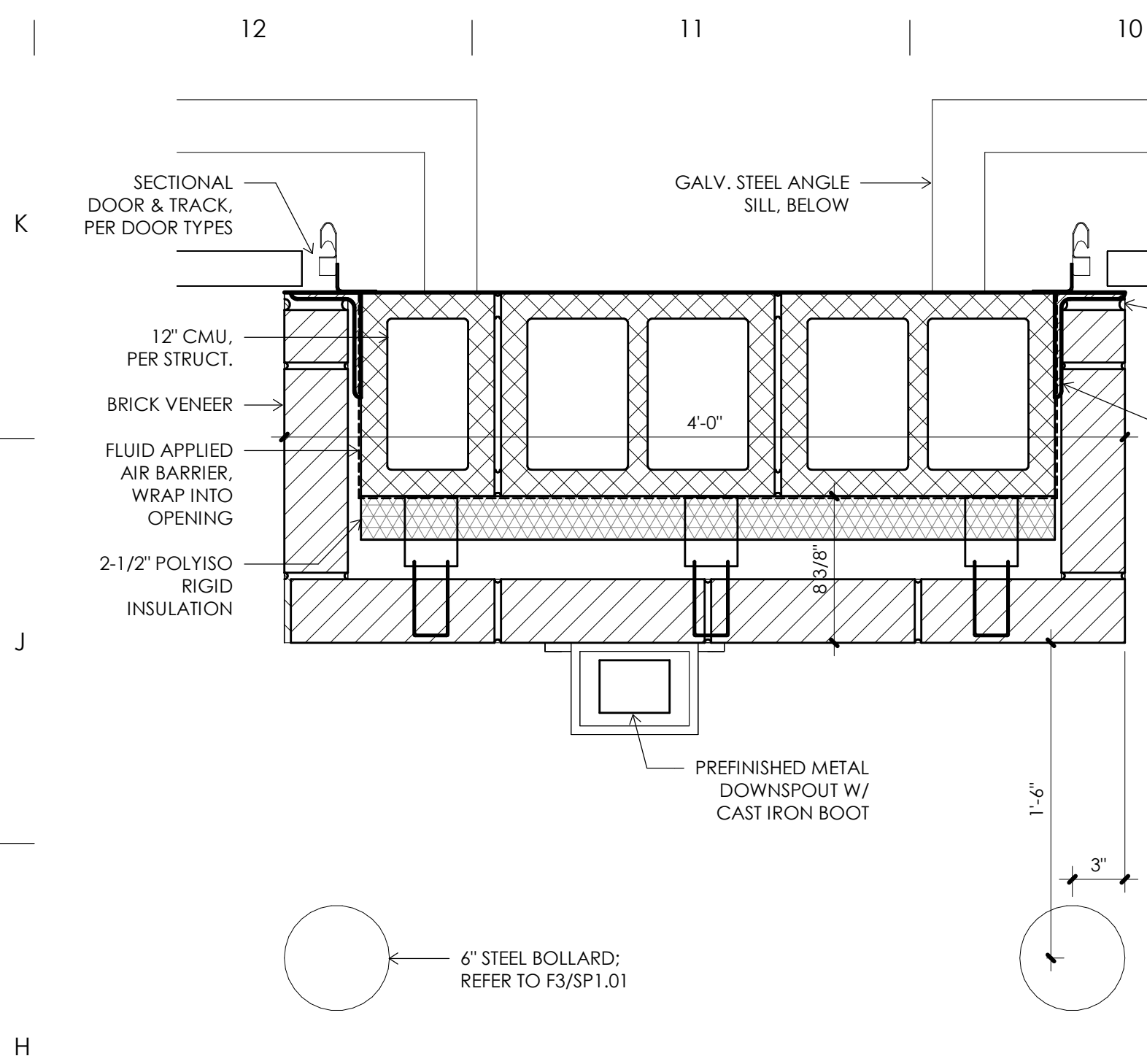
Douglas Bae - Architect
KS # 8101

ISSUE DATE 09/09/2024
No. Description Date

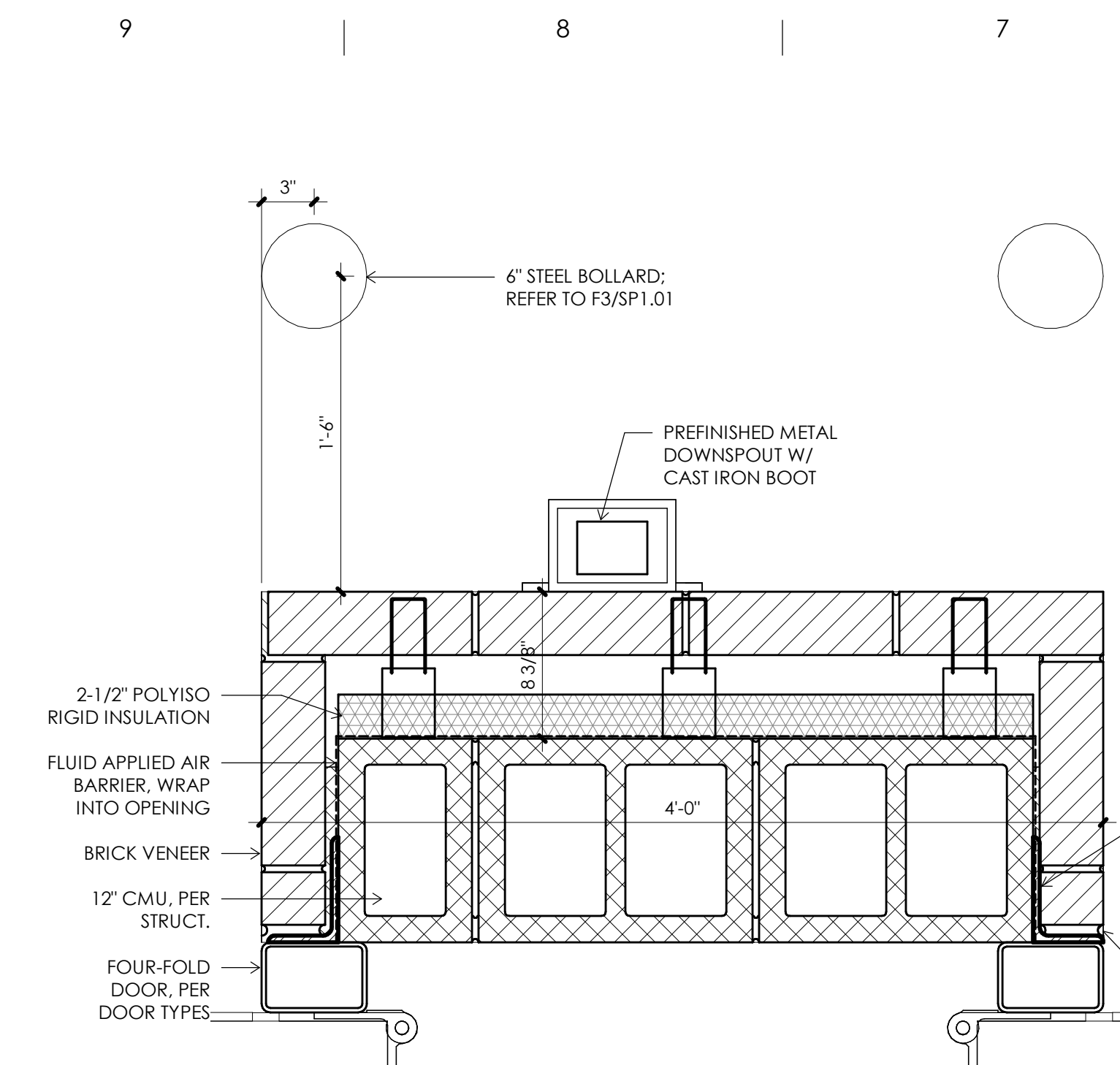
WSKF, Inc. © 2024

DIMENSION PLAN
A1.01

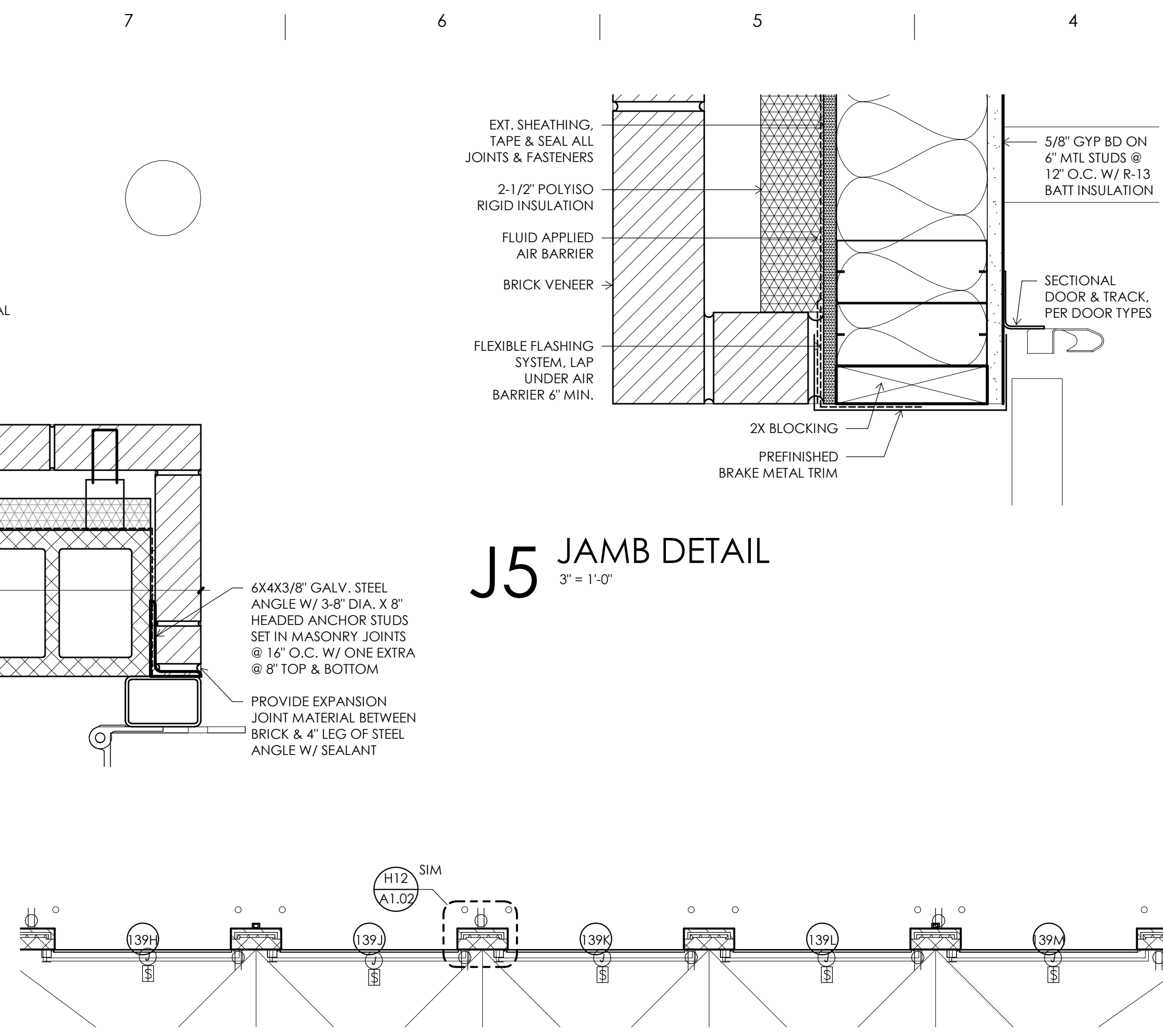
9/9/2024 10:23:53 AM
C:\Users\mattmccaffrey\Desktop\Revit\2003_Salino Station_4_CENTRAL_mmcacaffrey\wtd\arch.com.rvt



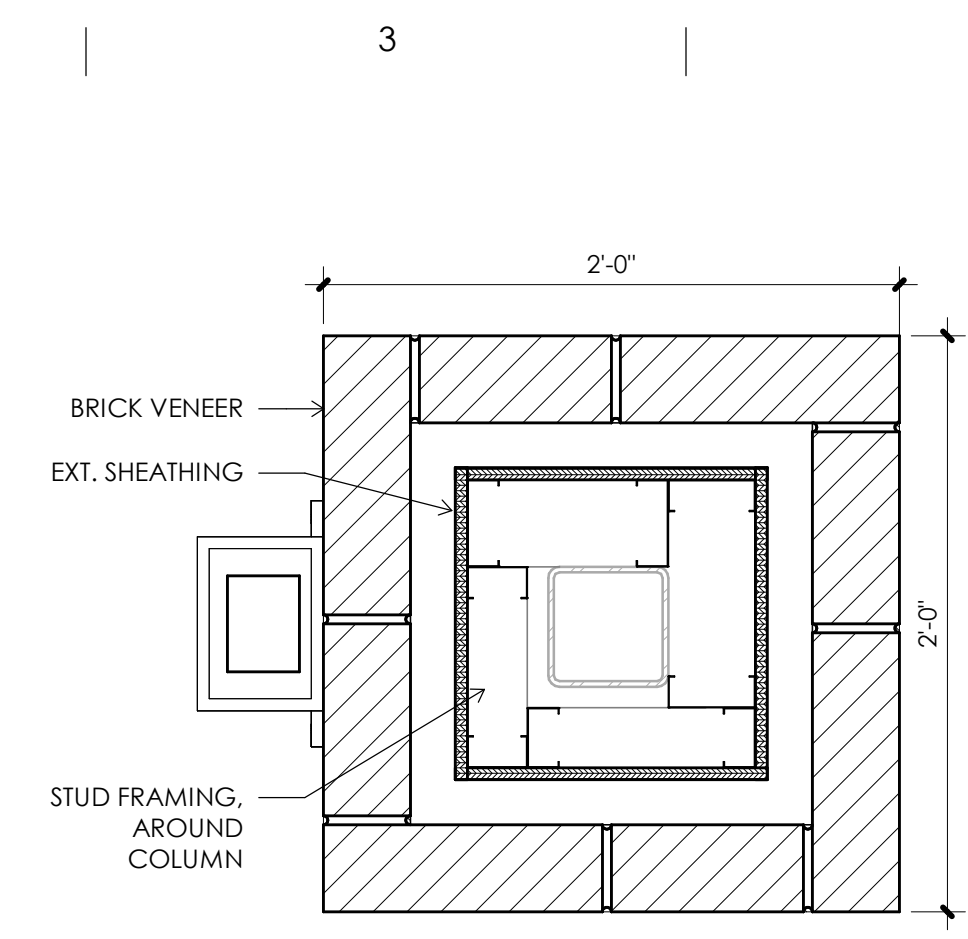
H12 JAMB DETAIL
1/2" = 1'-0"



H9 JAMB DETAIL
1/2" = 1'-0"



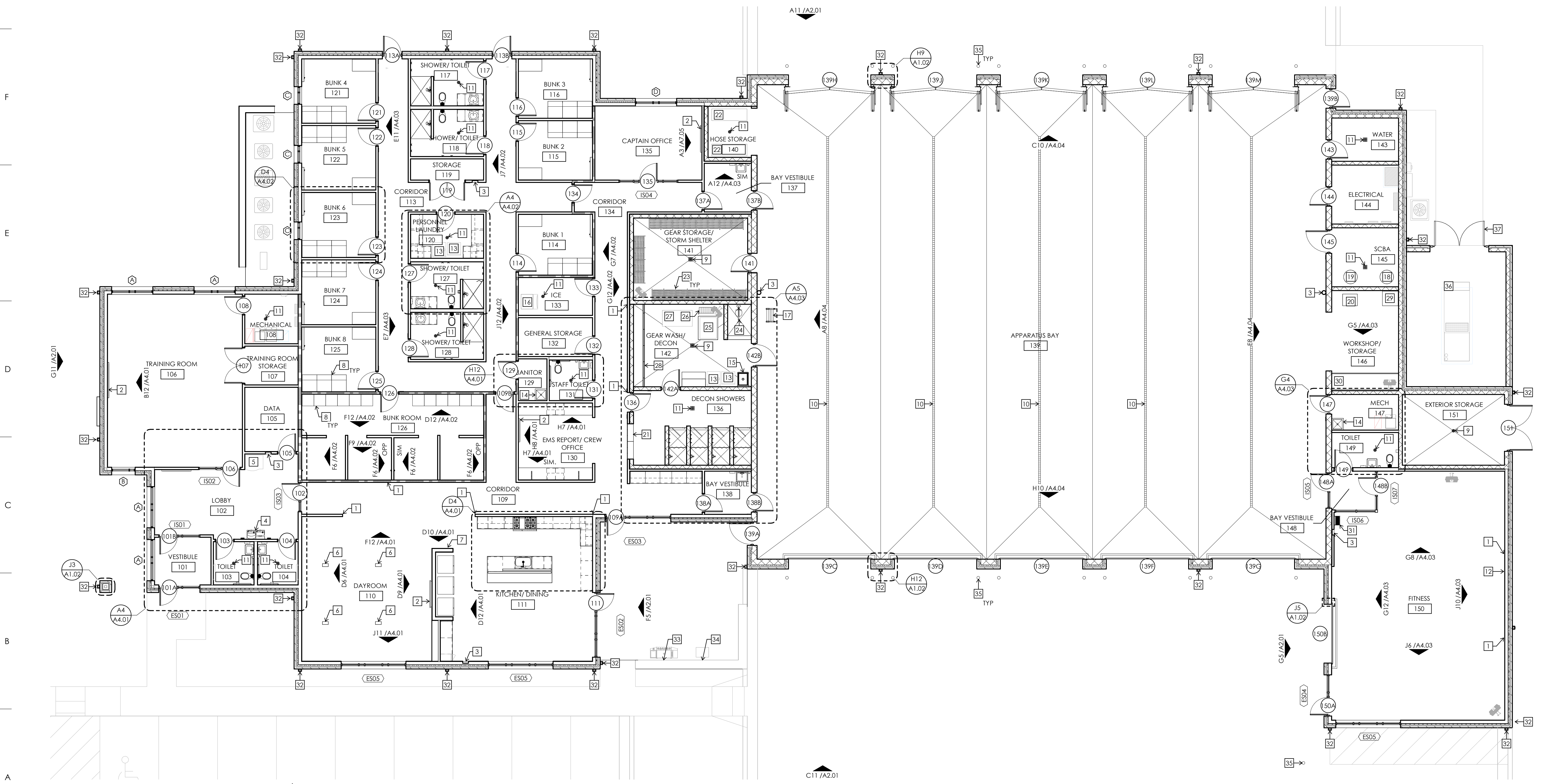
J5 JAMB DETAIL
3" = 1'-0"



J3 PLAN DETAIL
1/2" = 1'-0"



G7 ALTERNATE #1
1/8" = 1'-0"



A12 FIRST FLOOR PLAN
1/8" = 1'-0"



GENERAL NOTES:

- CONTRACTOR SHALL BE RESPONSIBLE FOR VERIFYING ALL DIMENSIONS AND EXISTING CONDITIONS. ANY DISCREPANCIES WHICH WILL PREVENT THE ACCOMPLISHMENT OF INTENT SHOWN ON DRAWINGS SHALL BE BROUGHT TO THE IMMEDIATE ATTENTION OF THE ARCHITECT.
- WHERE A CONDITION IS NOTED TYPICAL (TYP.), IT IS UNDERSTOOD THAT ALL SIMILAR CONDITIONS BE CONSTRUCTED OF THE SAME MATERIALS AND/OR DIMENSIONS.
- ALL DIMENSIONS ARE TO FACE OF STUD, FACE OF CMU, FACE OF CONCRETE FOUNDATION WALL, OR CENTER OF STL. STRUCTURE, UNLESS NOTED OTHERWISE.
- ALL DOOR OPENINGS ARE TO BE LOCATED 4" FROM HINGE SIDE OF ADJACENT WALL UNLESS CENTERED IN ROOM OR NOTED OTHERWISE.
- COORDINATE ROOF AND FLOOR PENETRATIONS W/ MEP AND STRUCTURAL DRAWINGS.
- SIGNAGE SCHEDULE ON A7.04 FOR INTERIOR WALL MOUNTED ADA SIGNAGE AND LOCATIONS.
- REFER TO ROOM FINISH SCHEDULE ON A7.01 FOR INTERIOR FINISHES.
- REFER TO TYPICAL ADA FIXTURE MOUNTING GUIDE ON A0.02.
- REFER TO ENLARGED FLOOR PLANS FOR FURTHER INFORMATION ON PARTITION TYPE TAGS, DIMENSIONS, ETC.

PLAN NOTES:

- GYPSUM BOARD CONTROL JOINT. REFER TO RCP AND INTERIOR ELEVATIONS FOR ADDITIONAL LOCATIONS.
- LOCATION FOR WALL MOUNTED TV. PROVIDE IN-WALL BLOCKING, POWER & DATA AS REQUIRED. REFER TO A7.04 FOR TYPICAL MOUNTING DETAIL. COORDINATE FINAL MOUNTING HEIGHT AND LOCATIONS WITH OWNER PRIOR TO INSTALLATION.
- FIRE EXTINGUISHER CABINET/BRACKET. REFER TO A0.01 FOR FURTHER INFORMATION.
- DRINKING FOUNTAIN: REFER TO MEP.
- VENDING MACHINE: REFER TO MEP & A7.03.
- RECESS FLOOR BOX: REFER TO MEP.
- EMERGENCY SHUT-OFF BUTTON: REFER TO MEP.
- METAL PERSONNEL LOCKERS: REFER TO SPECIFICATIONS.
- FLOOR DRAIN: PER PLUMBING. SLOPE AS SHOWN AT 1/4" PER 1'-0" TOWARDS DRAIN.
- TRENCH DRAIN: PER PLUMBING. SLOPE FLOOR TO DRAIN AT 1/4" PER 1'-0" TOWARDS DRAIN.
- FLOOR DRAIN: PER PLUMBING. DRAIN TO BE FLUSH WITH FLOOR.
- WALL MIRRORS: REFER TO INTERIOR ELEVATIONS.
- WASHER & DRYER: REFER TO MEP & A7.03.
- JANITOR SINK: REFER TO MEP.
- LAUNDRY TUB: REFER TO MEP.
- ICE MAKER: REFER TO MEP & A7.03.
- INCLINED METAL LADDER: REFER TO SPECIFICATIONS.
- STATION AIR COMPRESSOR: REFER TO MEP & A7.03.
- SCBA AIR COMPRESSOR: REFER TO MEP & A7.03.
- SCBA FILL STATION: REFER TO MEP & A7.03.
- PASS THRU LOCKERS: REFER TO SPECIFICATIONS.
- HOSE STORAGE RACKS: REFER TO A7.03.
- TURNOUT GEAR LOCKERS: REFER TO A7.03.
- EMERGENCY SHOWER/EYE WASH STATION: REFER TO MEP.
- EXTRACTOR: REFER TO MEP & A7.03.
- TRENCH DRAIN FOR EXTRACTOR: REFER TO MEP. COORDINATE TRENCH DRAIN LOCATION W/ FOUNDATION LOCATION.
- FUTURE GEAR DRYER: REFER TO MEP.
- STEEL HANGING ROD: REFER TO INTERIOR ELEVATIONS.
- SCBA BOTTLE RACK: REFER TO A7.03.
- WORKBENCH & PEG BOARD: REFER TO INTERIOR ELEVATIONS.
- BOTTLE FILL STATION: REFER TO MEP.
- PREFINISHED DOWNSPOUT. CONNECT TO BELOW GRADE STORM WATER W/ CAST IRON BOOT.
- GAS OUTLET FOR GRILL: REFER TO MEP. COORDINATE FINAL LOCATION WITH OWNER PRIOR TO INSTALLATION.
- ELECTRICAL OUTLET FOR SMOKER: REFER TO MEP. COORDINATE FINAL LOCATION WITH OWNER PRIOR TO INSTALLATION.
- 6" BOLLARD: REFER TO F3/SP1.01.
- GENERATOR: REFER TO MEP.
- GENERATOR ENCLOSURE GATE: SIMILAR TO TRASH ENCLOSURE GATE.



Kansas Certificate of Authority #A-516
CIVIL ENGINEER
KAW Valley Engineering
KS Certificate of Authority #29241
1627 Sunflower Lane
Salina, KS 67401
785-823-3400

Structural Engineer
Bob D. Campbell & Co.
KS Certificate of Authority #000442
4338 Bellview
Kansas City, MO 64111
816-778-7149

MEP Engineer
PKMR Engineers, Inc.
KS Certificate of Authority #E-200202086
13300 W. 98th St.
Lenexa, KS 66215
913-492-2400

JOB NUMBER 22003

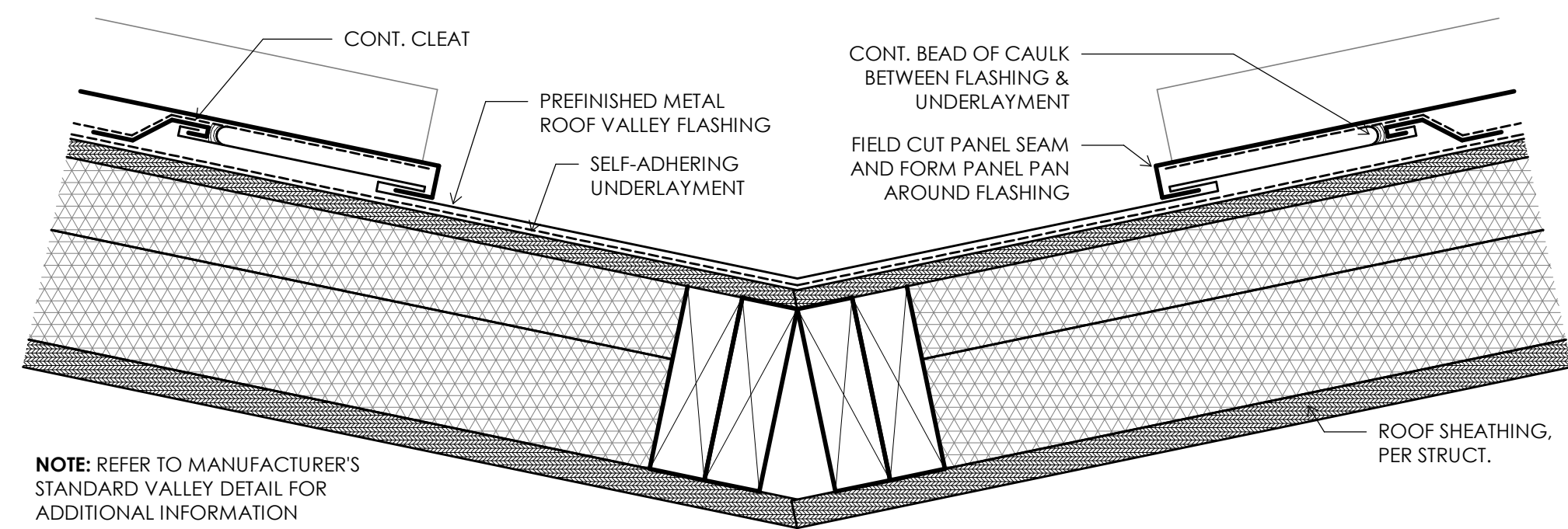
SALINA FIRE STATION #4
EAST CRAWFORD STREET
& MARKLEY ROAD
SALINA, KS 67401
CITY OF SALINA
756 Minnesota Ave., Suite 662 Kansas City, Kansas 66101 Tel. 816.300.4101 Fax 816.300.4102



Douglas Boe - Architect
KS #8101
ISSUE DATE 09/09/2024
No. Description Date

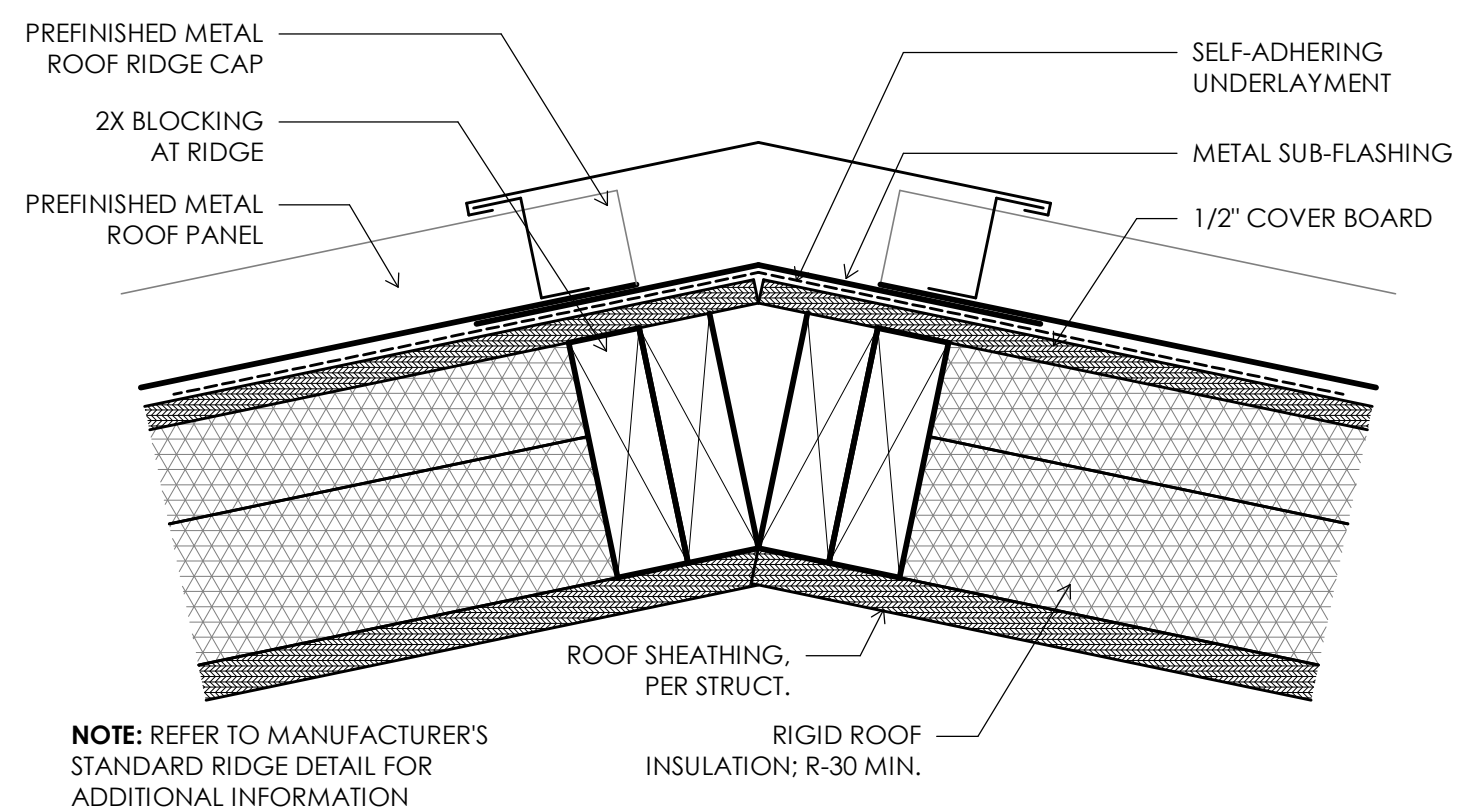
WSKF, Inc. © 2024

KEYNOTE PLAN
A1.02



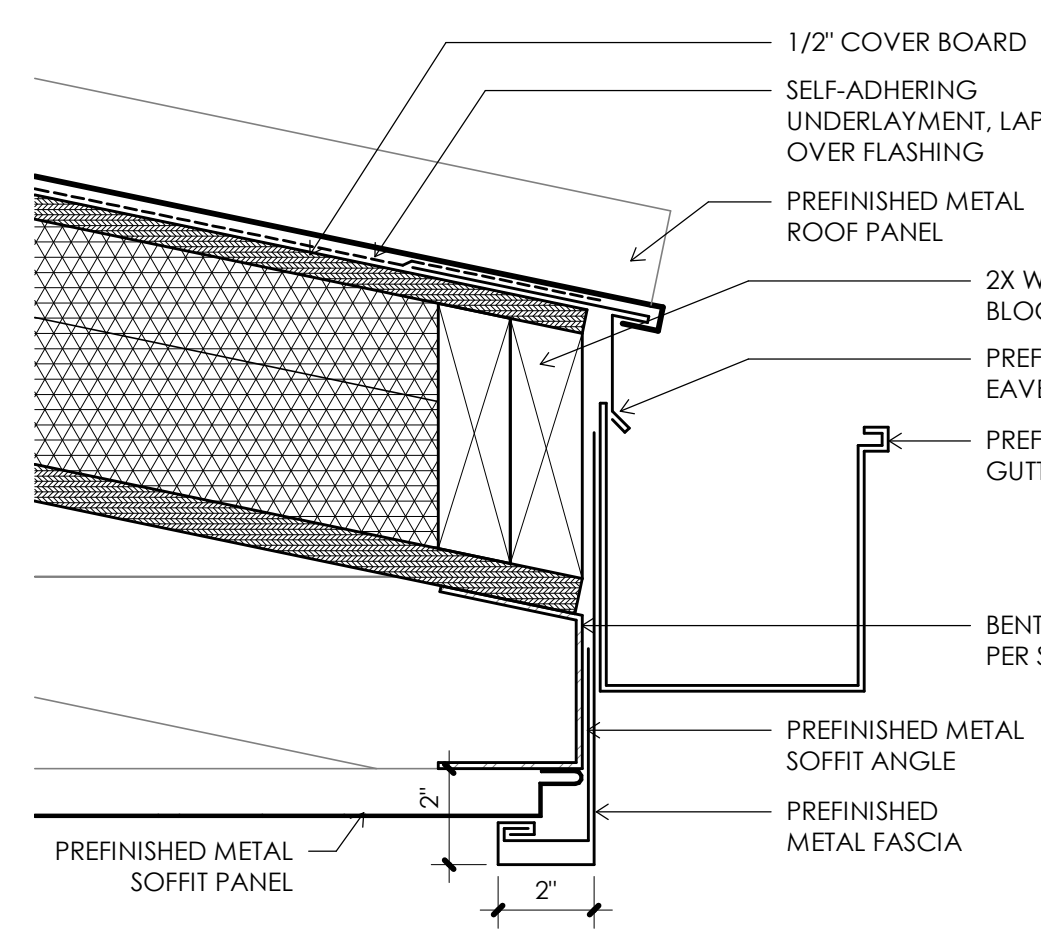
NOTE: REFER TO MANUFACTURER'S STANDARD VALLEY DETAIL FOR ADDITIONAL INFORMATION

J11 VALLEY DETAIL
3" = 1'-0"

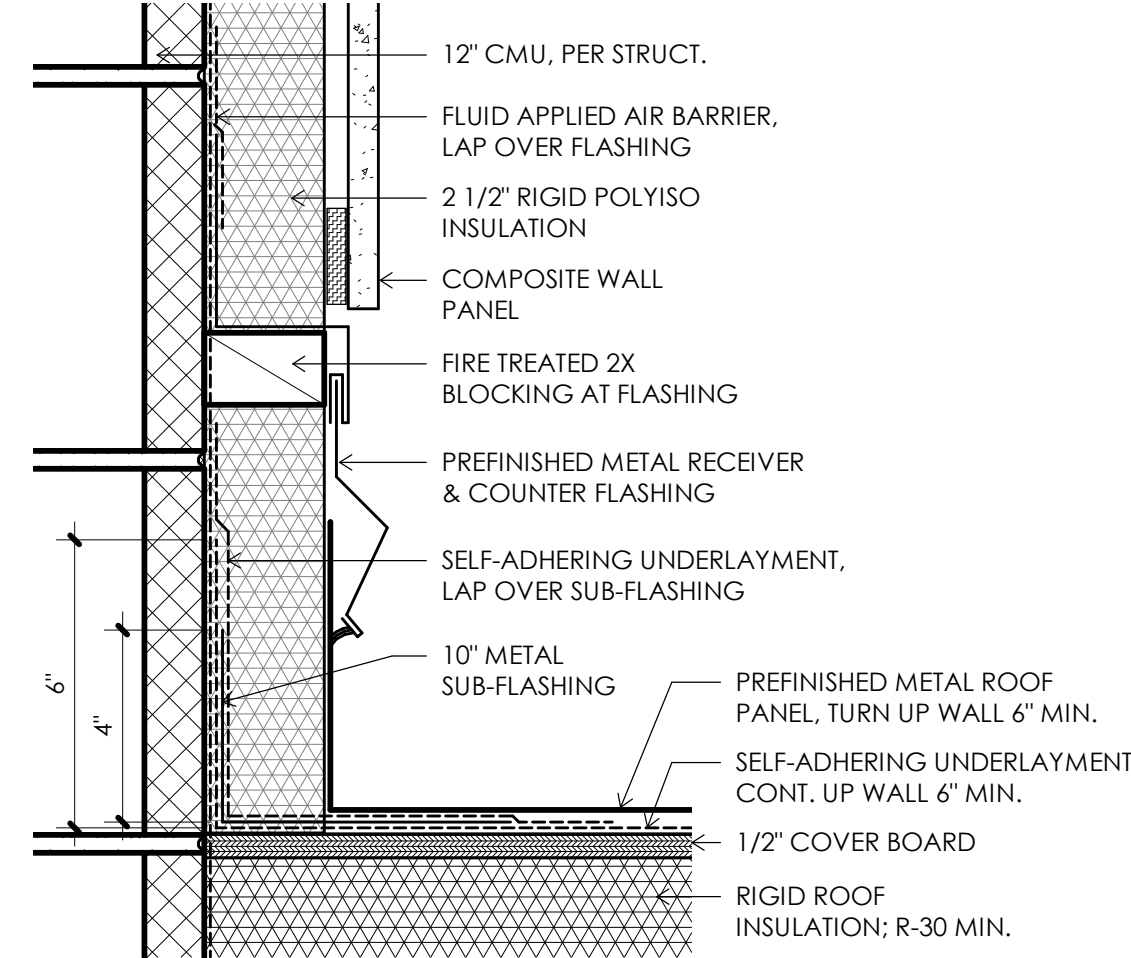


NOTE: REFER TO MANUFACTURER'S STANDARD RIDGE DETAIL FOR ADDITIONAL INFORMATION

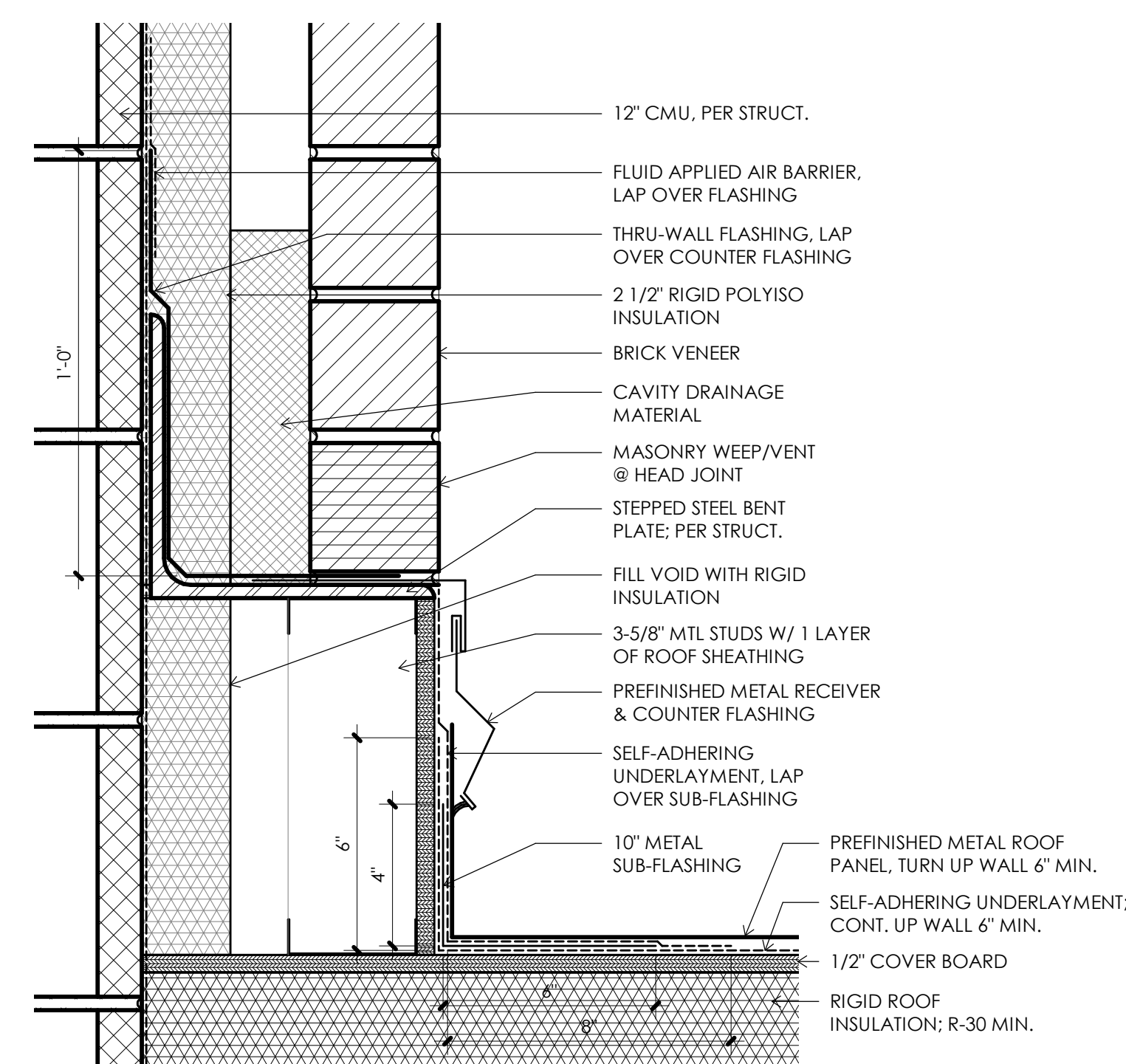
G11 RIDGE DETAIL
3" = 1'-0"



G8 GUTTER DETAIL
3" = 1'-0"



G6 HEAD WALL DETAIL
3" = 1'-0"



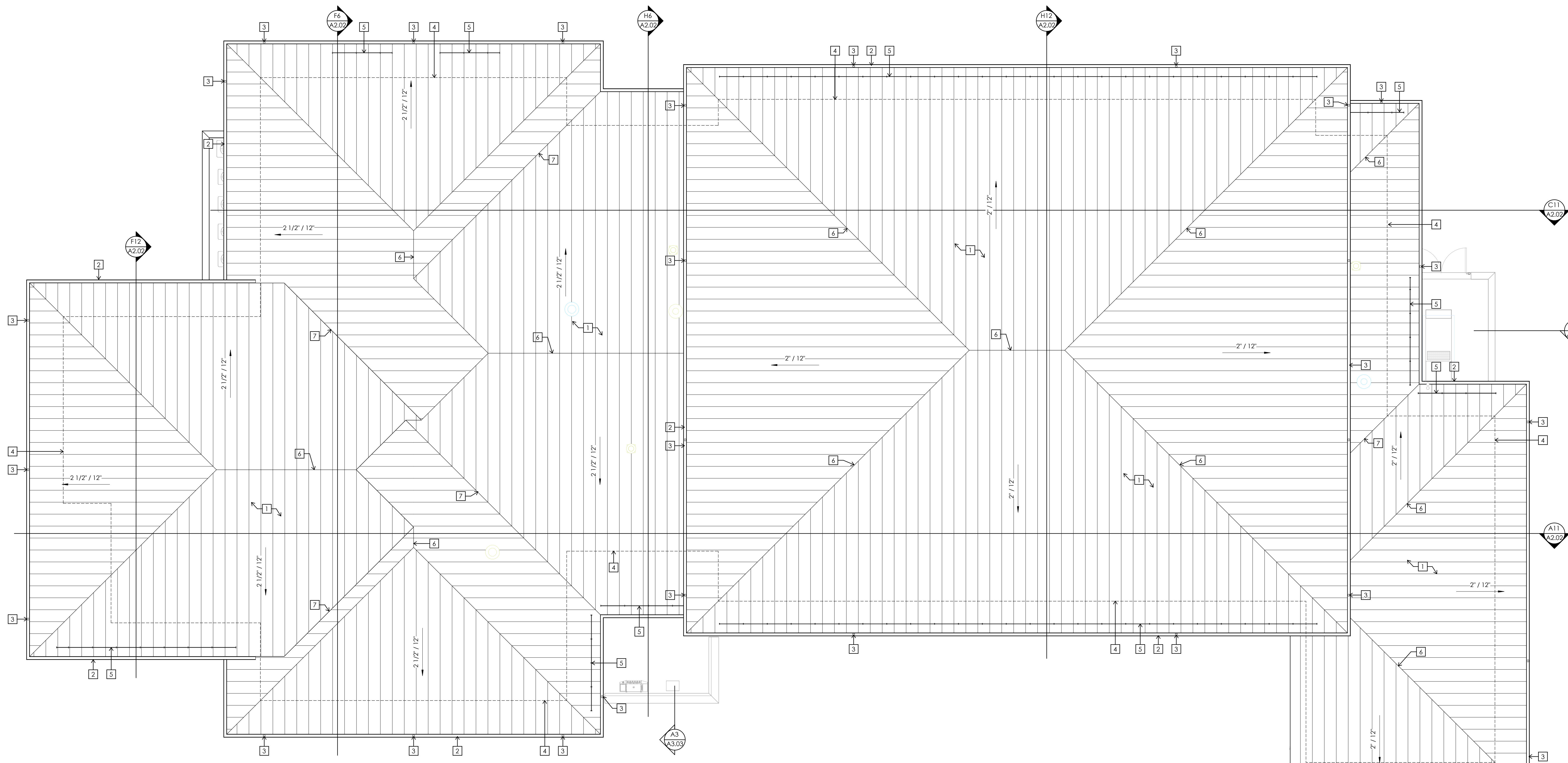
G4 HEAD WALL DETAIL
3" = 1'-0"

GENERAL NOTES:

1. CONTRACTOR SHALL BE RESPONSIBLE FOR VERIFYING ALL DIMENSIONS AND EXISTING CONDITIONS. ANY DISCREPANCIES WHICH WILL PREVENT THE ACCOMPLISHMENT OF INTENT SHOWN ON DRAWINGS SHALL BE BROUGHT TO THE IMMEDIATE ATTENTION OF THE ARCHITECT.
2. WHERE A CONDITION IS NOTED 'TYPICAL' (TYP.), IT IS UNDERSTOOD THAT ALL SIMILAR CONDITIONS BE CONSTRUCTED OF THE SAME MATERIALS AND/OR DIMENSIONS.
3. ALL DIMENSIONS ARE TO FACE OF STUD, FACE OF CMU, FACE OF CONCRETE FOUNDATION WALL, OR CENTER OF STL. STRUCTURE, UNLESS NOTED OTHERWISE.
4. COORDINATE ROOF AND FLOOR PENETRATIONS W/ MEP AND STRUCTURAL DRAWINGS.
5. ALL LOUVERS AND MEP ROOF PENETRATIONS, SHOWN OR NOT SHOWN, TO BE PAINTED TO MATCH THE ROOF OR SURROUNDING MATERIAL. COORDINATE COLOR WITH ARCHITECT.
6. MECHANICAL SUPPLY OR EXHAUST VENT PER MEP. FLASH PER SMACNA OR ROOF MANUFACTURERS STANDARDS. COLOR OF FLASHING TO MATCH ROOF. CONTRACTOR TO PAINT NON-METAL ITEMS. REFER TO PAINT SCHEDULE IN SPECS. FOR PAINT SYSTEM.

ROOF PLAN NOTES:

1. PREFINISHED METAL ROOF PANEL.
2. PREFINISHED METAL GUTTER; SIZE: 3" BOX; COLOR: TO MATCH ROOF SYSTEM.
3. PREFINISHED METAL DOWNSPOUT; SIZE: 4"x3"; COLOR: TO MATCH ROOF SYSTEM. ALL DOWNSPOUTS TO TIE INTO BELOW GRADE STORM WATER PER CIVIL. PROVIDE PAINTED CAST IRON BOOT PER SPECS.
4. EXTERIOR FACE OF WALL BELOW.
5. SNOW FENCE, PER SPECS. COLOR INSERT TO MATCH ROOF COLOR.
6. PREFINISHED METAL ROOF RIDGE.
7. PREFINISHED METAL ROOF VALLEY.



A11 ROOF PLAN
1/8" = 1'-0"



Kansas Certificate of Authority #A-516
CIVIL ENGINEER
KAW Valley Engineering
KS Certificate of Authority #29241
1627 Sunflower Lane
Salina, KS 67401
785-823-3400

Structural Engineer
Bob D. Campbell & Co.
KS Certificate of Authority #000442
4338 Bellview
Kansas City, MO 64111
816-778-7149

MEP Engineer
PKMR Engineers, Inc.
KS Certificate of Authority #E-2002020886
13300 W. 98th St.
Lenexa, KS 66215
913-492-2400

JOB NUMBER 22003

SALINA FIRE STATION #4

EAST CRAWFORD STREET
& MARKLEY ROAD
SALINA, KS 67401
CITY OF SALINA
755 Minnesota Ave., Suite 662 Kansas City, Kansas 66101 Tel. 816.300.4101 Fax 816.300.4102



Douglas Boe - Architect
KS # 8101
ISSUE DATE 09/09/2024
No. Description Date

WSKF, Inc. © 2024

ROOF PLAN
A1.03

9/9/2024 10:23:56 AM
C:\Users\MattMcCaffrey\Desktop\Revit\22003_Salina Station 4_CENTRAL_mmccaffrey\vd\arch.com.rvt



Kansas Certificate of Authority #A-516

CIVIL ENGINEER
KAW Valley Engineering
KS Certificate of Authority #29241
1627 Sunflower Lane
Salina, KS 67401
785-823-3400

Structural Engineer
Bob D. Campbell & Co.
KS Certificate of Authority
#000442
4338 Bellview
Kansas City, MO 64111
816-778-7149

MEP Engineer
PKMR Engineers, Inc.
KS Certificate of Authority
#E-2002020886
13300 W. 98th St.
Lenexa, KS 66215
913-492-2400

JOB NUMBER 22003

GENERAL NOTES:

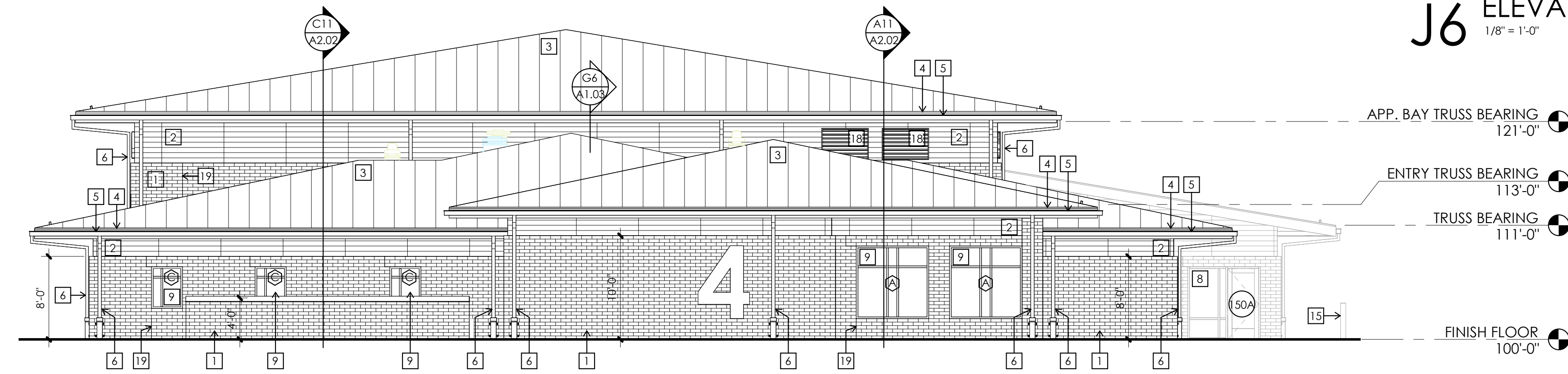
1. CONTRACTOR SHALL BE RESPONSIBLE FOR VERIFYING ALL DIMENSIONS AND EXISTING CONDITIONS. ANY DISCREPANCIES WHICH WILL PREVENT THE ACCOMPLISHMENT OF INTENT SHOWN ON DRAWINGS SHALL BE BROUGHT TO THE IMMEDIATE ATTENTION OF THE ARCHITECT.
2. WHERE A CONDITION IS NOTED 'TYPICAL' (TYP.), IT IS UNDERSTOOD THAT ALL SIMILAR CONDITIONS BE CONSTRUCTED OF THE SAME MATERIALS AND/OR DIMENSIONS.
3. ALL LOUVERS AND MEP PENETRATIONS, SHOWN OR NOT SHOWN, TO BE PAINTED TO MATCH THE SURROUNDING MATERIAL. COORDINATE COLOR WITH ARCHITECT.

ELEVATION NOTES:

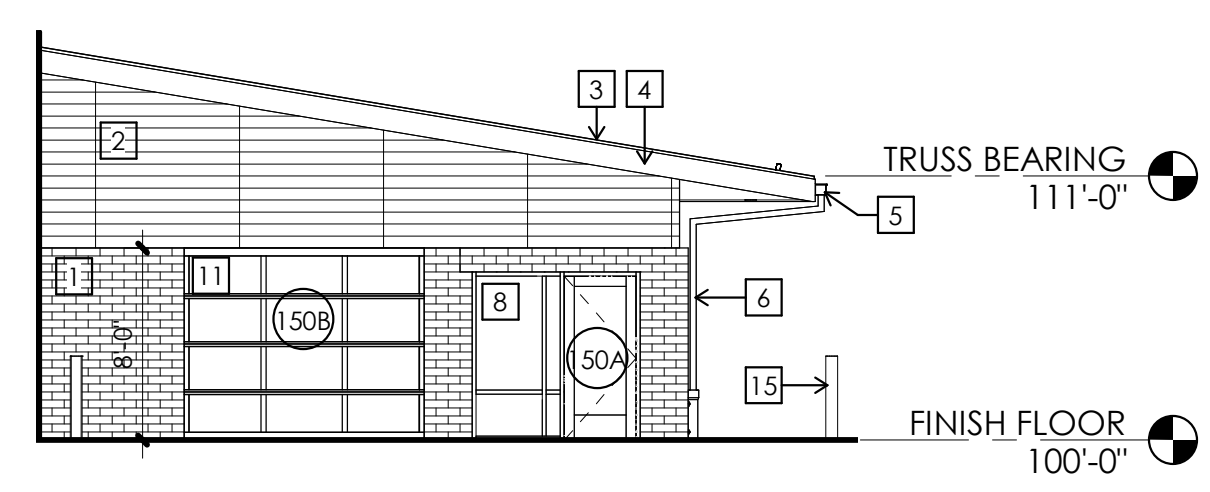
- 1 FACE BRICK VENEER
- 2 PREFINISHED COMPOSITE WALL PANEL SYSTEM
- 3 PREFINISHED STANDING SEAM METAL ROOF PANEL
- 4 PREFINISHED METAL ROOF FASCIA
- 5 PREFINISHED METAL GUTTER
- 6 PREFINISHED METAL DOWNSPOUT, ALL DOWNSPOUTS TO TIE INTO BELOW GRADE STORM WATER PER CIVIL. PROVIDE CAST IRON BOOT PER SPECS, PAINT TO MATCH DOWNSPOUT.
- 7 RAIL-TYPE SNOW GUARDS
- 8 ALUMINUM-FRAMED STOREFRONT SYSTEM
- 9 ALUMINUM WINDOWS
- 10 FOUR-FOLD DOOR SYSTEM
- 11 FULL VISION ALUMINUM SECTIONAL DOORS
- 12 HOLLOW METAL DOOR AND FRAME; PAINT TO MATCH ROOF PANELS
- 13 PREFINISHED ALUMINUM FIN MOUNTED LETTERS
- 14 BACK-LIT PREFINISHED ALUMINUM SIGNAGE
- 15 6" STEEL BOLLARD; PAINT TO MATCH ROOF PANEL
- 16 GENERATOR ENCLOSURE GATE; PAINT TO MATCH ROOF PANEL
- 17 PREFINISHED METAL WALL CAP
- 18 MECHANICAL LOUVER; REFER TO MECHANICAL DRAWINGS FOR FURTHER INFORMATION, PREFINISHED COLOR TO MATCH ROOF PANEL
- 19 MASONRY EXPANSION JOINT
- 20 COMPOSITE WALL PANEL EXPANSION JOINT



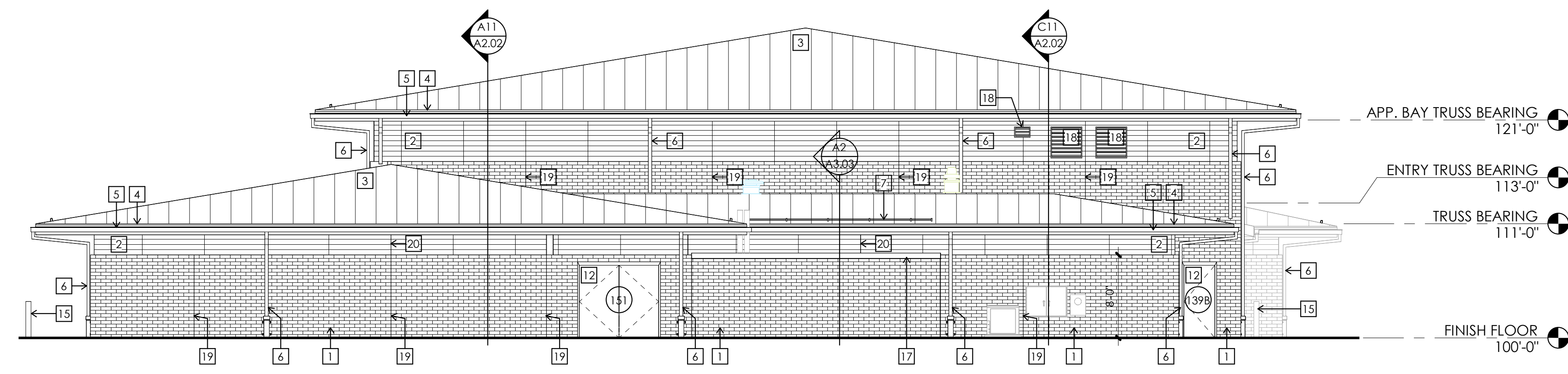
ALTERNATE #1 - NORTH
J6 ELEVATION
1/8" = 1'-0"



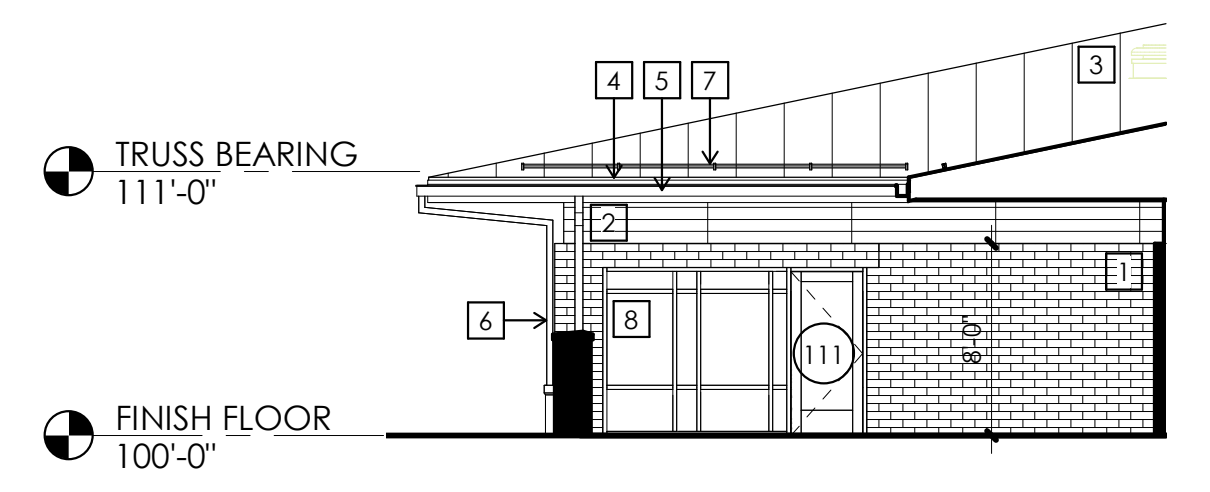
G11 WEST ELEVATION
1/8" = 1'-0"



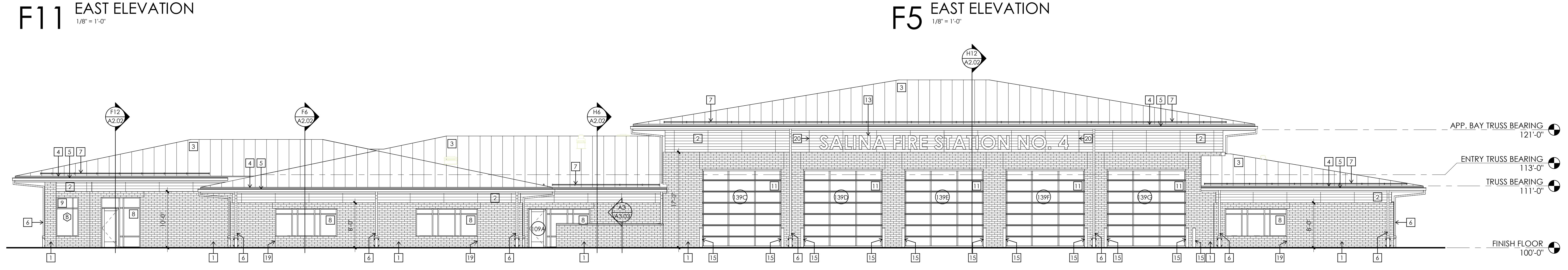
G5 WEST ELEVATION
1/8" = 1'-0"



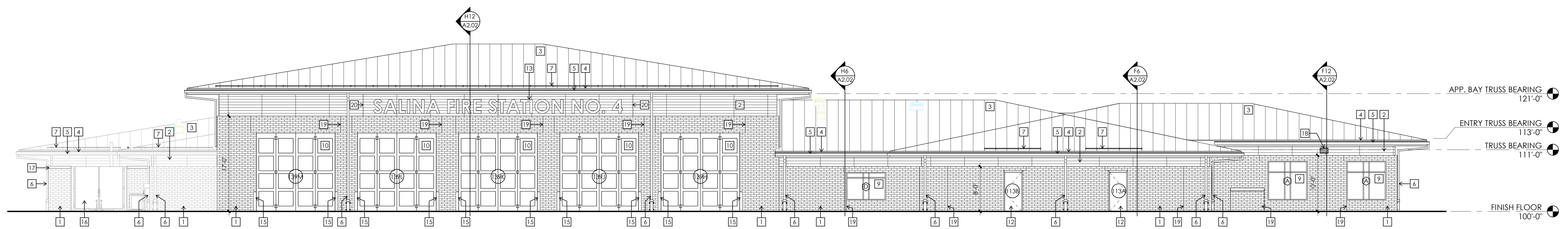
F11 EAST ELEVATION
1/8" = 1'-0"



F5 EAST ELEVATION
1/8" = 1'-0"



C11 SOUTH ELEVATION
1/8" = 1'-0"



A11 NORTH ELEVATION
1/8" = 1'-0"

SALINA FIRE STATION #4

EAST CRAWFORD STREET
& MARKLEY ROAD
SALINA, KS 67401
CITY OF SALINA



Douglas Boe - Architect
KS # 8101

ISSUE DATE 09/09/2024

No. Description Date

WSKF, Inc. © 2024

ELEVATIONS

A2.01

9/9/2024 10:24:10 AM
C:\Users\MattMcCaffrey\Desktop\Revit\2003_Salina Station_4_CENTRAL_mmc\cattrey\wdd\arch.com.rvt

755 Minnesota Ave., Suite 662 Kansas City, Kansas 66101 Tel. 816.300.4101 Fax 816.300.4102

GENERAL NOTES:

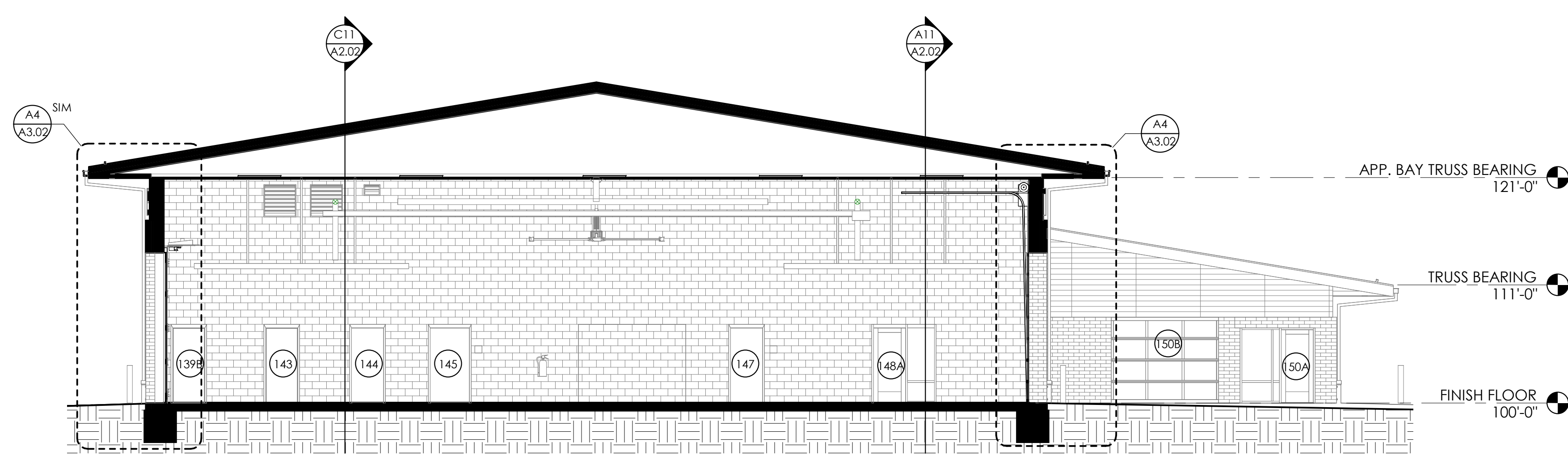
1. CONTRACTOR SHALL BE RESPONSIBLE FOR VERIFYING ALL DIMENSIONS AND EXISTING CONDITIONS. ANY DISCREPANCIES WHICH WILL PREVENT THE ACCOMPLISHMENT OF INTENT SHOWN ON DRAWINGS SHALL BE BROUGHT TO THE IMMEDIATE ATTENTION OF THE ARCHITECT.
2. WHERE A CONDITION IS NOTED TYPICAL (TYP.), IT IS UNDERSTOOD THAT ALL SIMILAR CONDITIONS BE CONSTRUCTED OF THE SAME MATERIALS AND/OR DIMENSIONS.
3. ALL LOUVERS AND MEP PENETRATIONS, SHOWN OR NOT SHOWN, TO BE PAINTED TO MATCH THE SURROUNDING MATERIAL. COORDINATE COLOR WITH ARCHITECT.



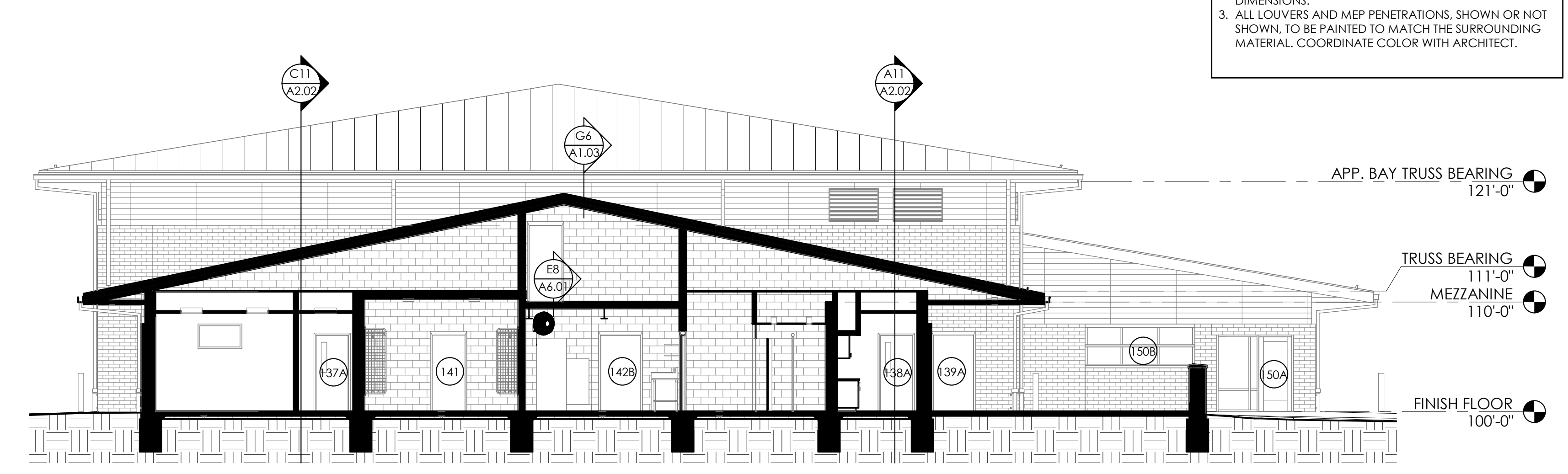
Kansas Certificate of Authority #A-516
 CIVIL ENGINEER
 KAW Valley Engineering
 KS Certificate of Authority #29241
 1627 Sunflower Lane
 Salina, KS 67401
 785-823-3400

Structural Engineer
 Bob D. Campbell & Co.
 KS Certificate of Authority #000442
 4338 Bellview
 Kansas City, MO 64111
 816-778-7149

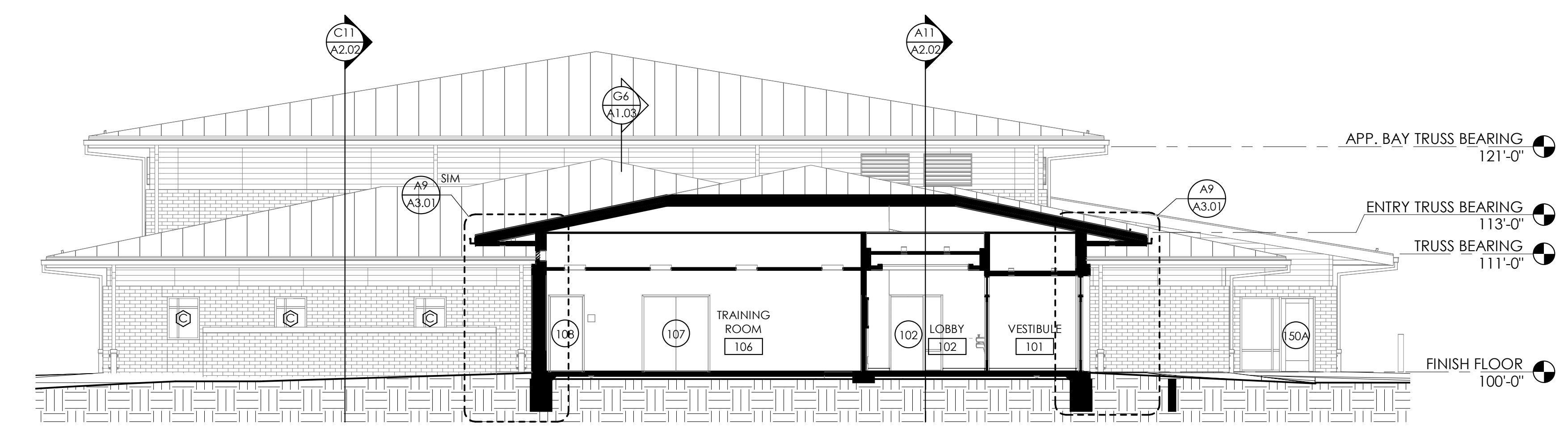
MEP Engineer
 PKMR Engineers, Inc.
 KS Certificate of Authority #E-2002020886
 13300 W. 98th St.
 Lenexa, KS 66215
 913-492-2400



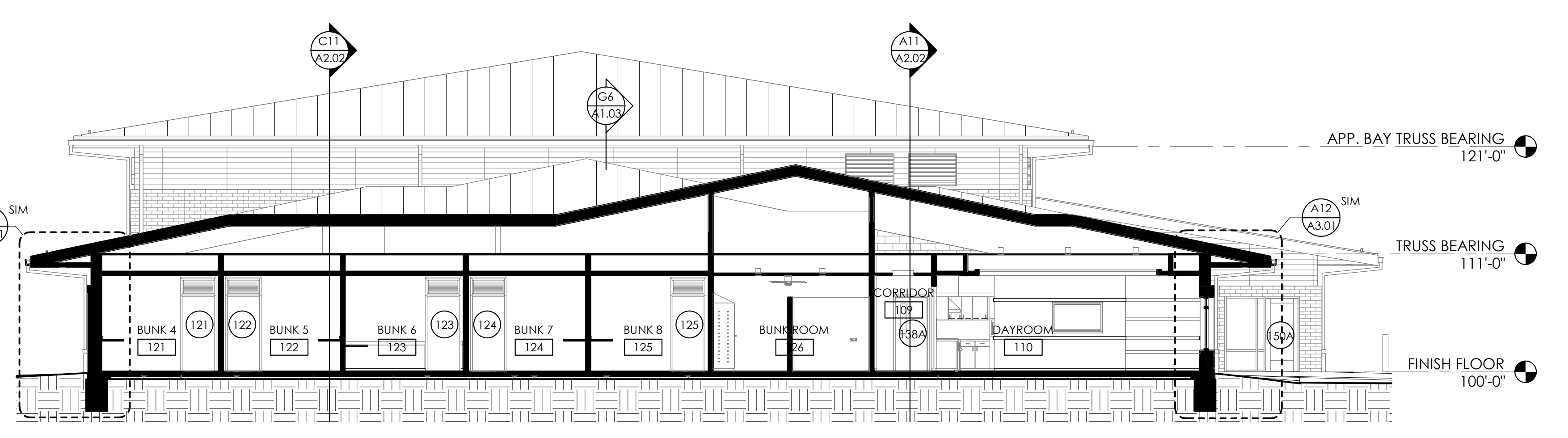
H12 BUILDING SECTION
 1/8" = 1'-0"



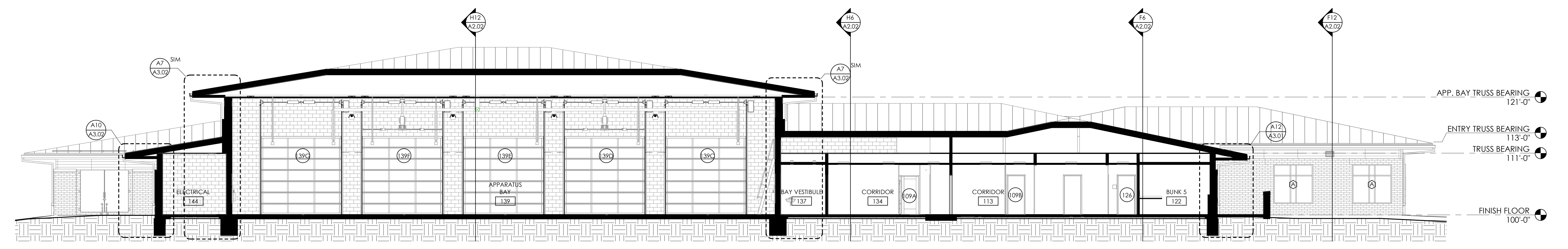
H6 BUILDING SECTION
 1/8" = 1'-0"



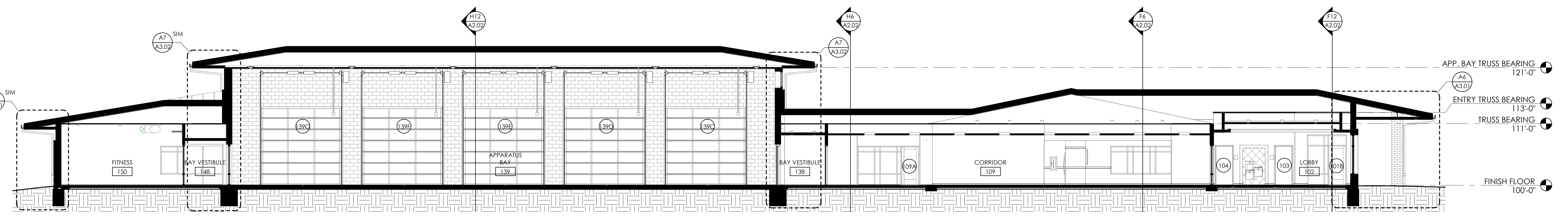
F12 BUILDING SECTION
 1/8" = 1'-0"



F6 BUILDING SECTION
 1/8" = 1'-0"



C11 BUILDING SECTION
 1/8" = 1'-0"



A11 BUILDING SECTION
 1/8" = 1'-0"

JOB NUMBER 22003

SALINA FIRE STATION #4

EAST CRAWFORD STREET
 & MARKLEY ROAD
 SALINA, KS 67401
 CITY OF SALINA



Douglas Boe - Architect
 KS # 8101
 ISSUE DATE 09/09/2024
 No. Description Date

WSKF, Inc. © 2024

BUILDING SECTIONS
A2.02



Kansas Certificate of Authority #A-516

CIVIL ENGINEER
KAW Valley Engineering
KS Certificate of Authority #29241
1627 Sunflower Lane
Salina, KS 67401
785-823-3400

Structural Engineer
Bob D. Campbell & Co.
KS Certificate of Authority #000442
4338 Bellview
Kansas City, MO 64111
816-778-7149

MEP Engineer
PKMR Engineers, Inc.
KS Certificate of Authority #E-202020386
13300 W. 98th St.
Lenexa, KS 66215
913-492-2400

JOB NUMBER 22003

SALINA FIRE STATION #4
EAST CRAWFORD STREET
& MARKLEY ROAD
SALINA, KS 67401
CITY OF SALINA
755 Minnesota Ave., Suite 662 Kansas City, Kansas 66101 Tel: 816.300.4101 Fax: 816.300.4102

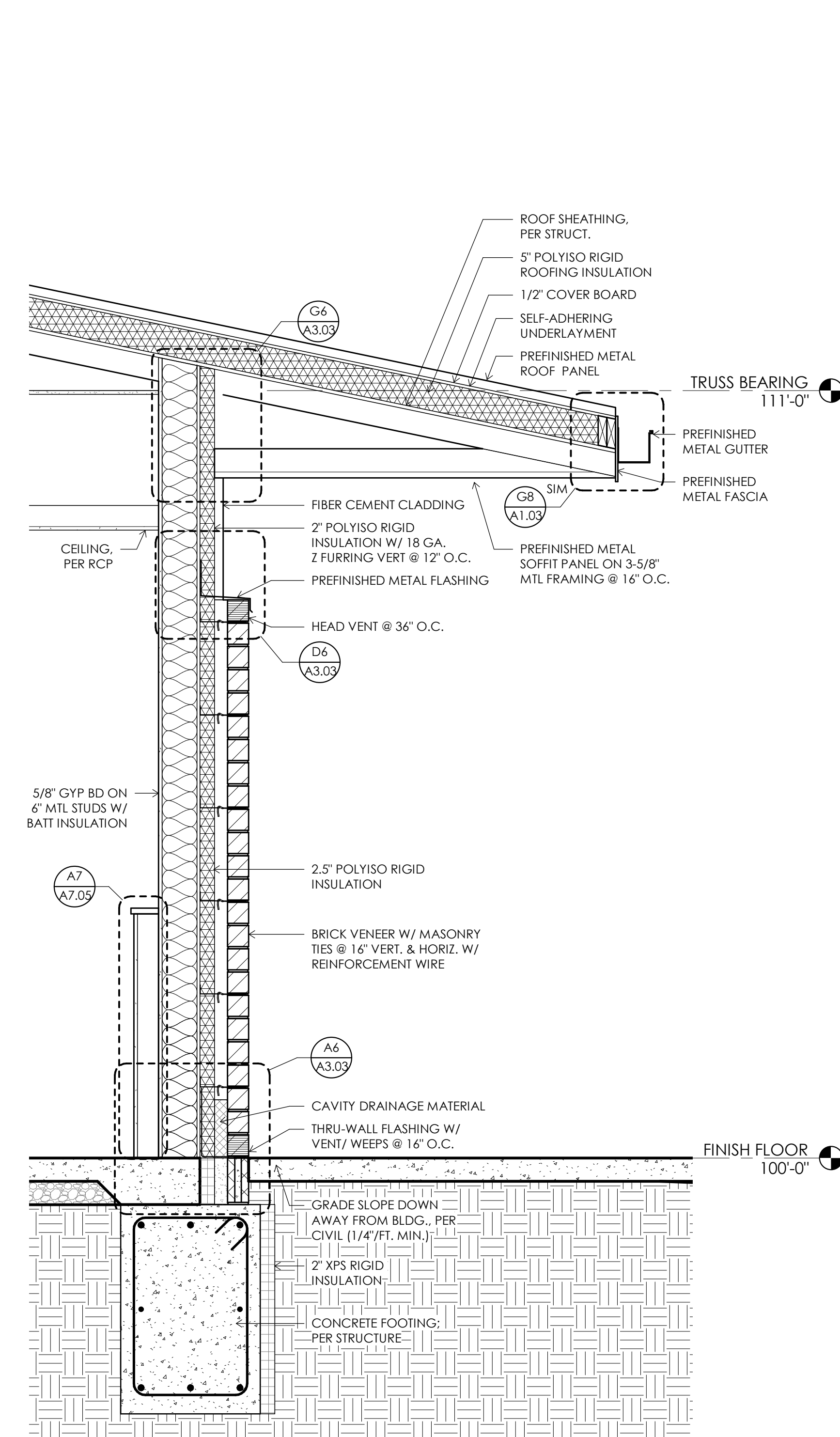


Douglas Boe - Architect
KS # 8101

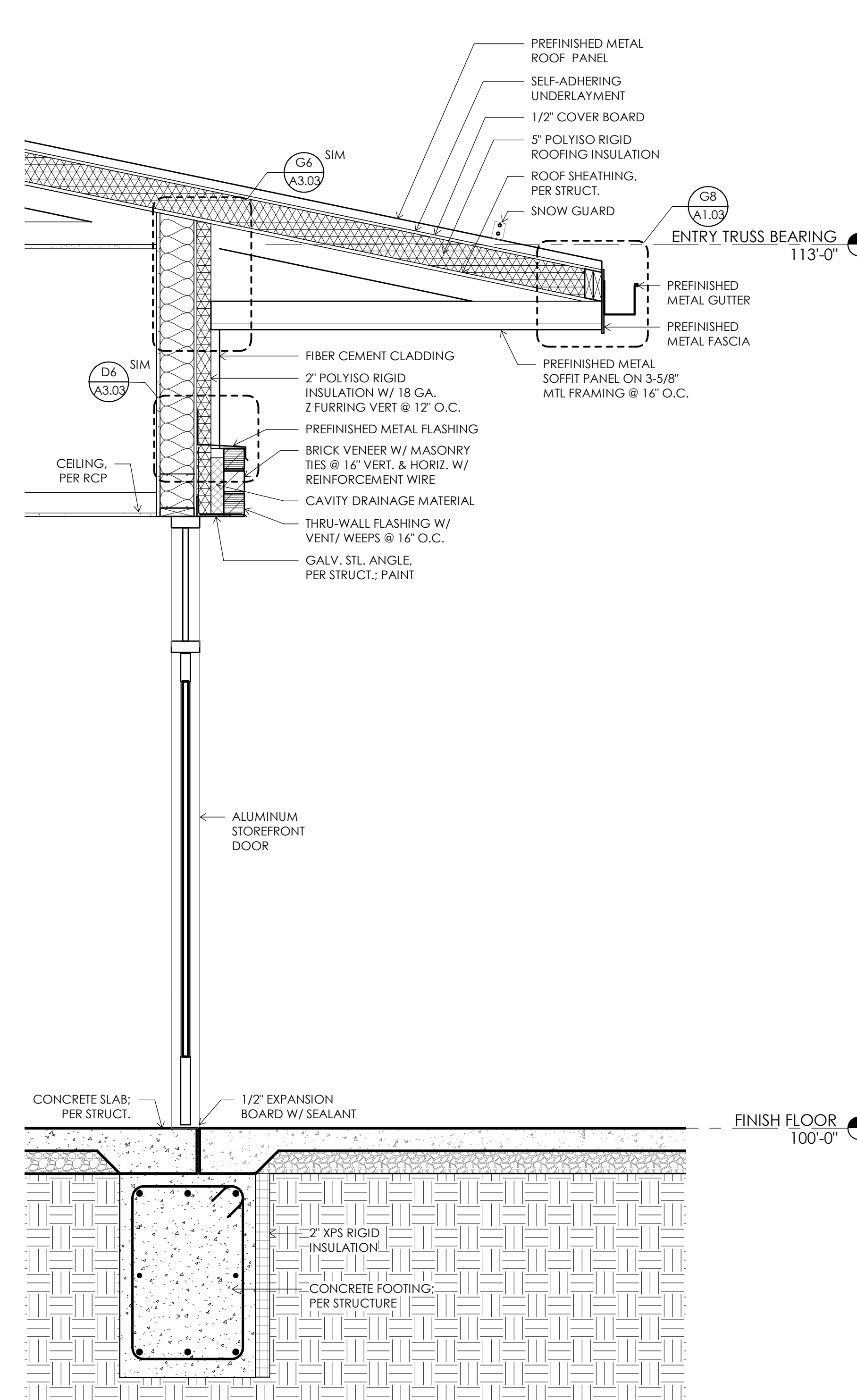
ISSUE DATE 09/09/2024
No. Description Date

WSKF, Inc. © 2024

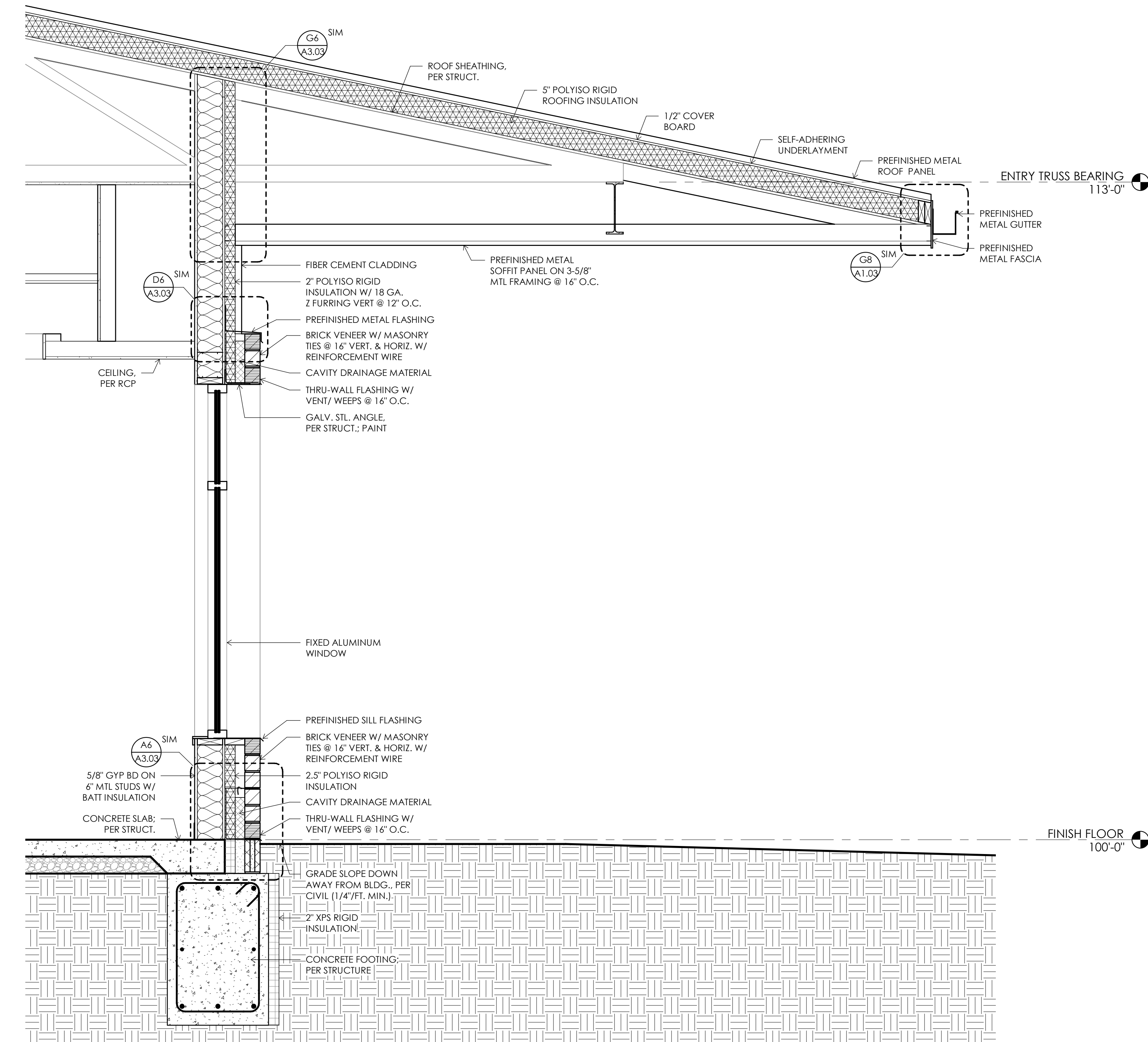
WALL SECTIONS
A3.01



A12 WALL SECTION
3/4" = 1'-0"



A9 WALL SECTION
3/4" = 1'-0"



A6 WALL SECTION
3/4" = 1'-0"

9/9/2024 10:24:20 AM C:\Users\mattmccaffrey\Desktop\Revit\22003_Salina Station 4_CENTRAL_mmccaffrey\wall.dwg



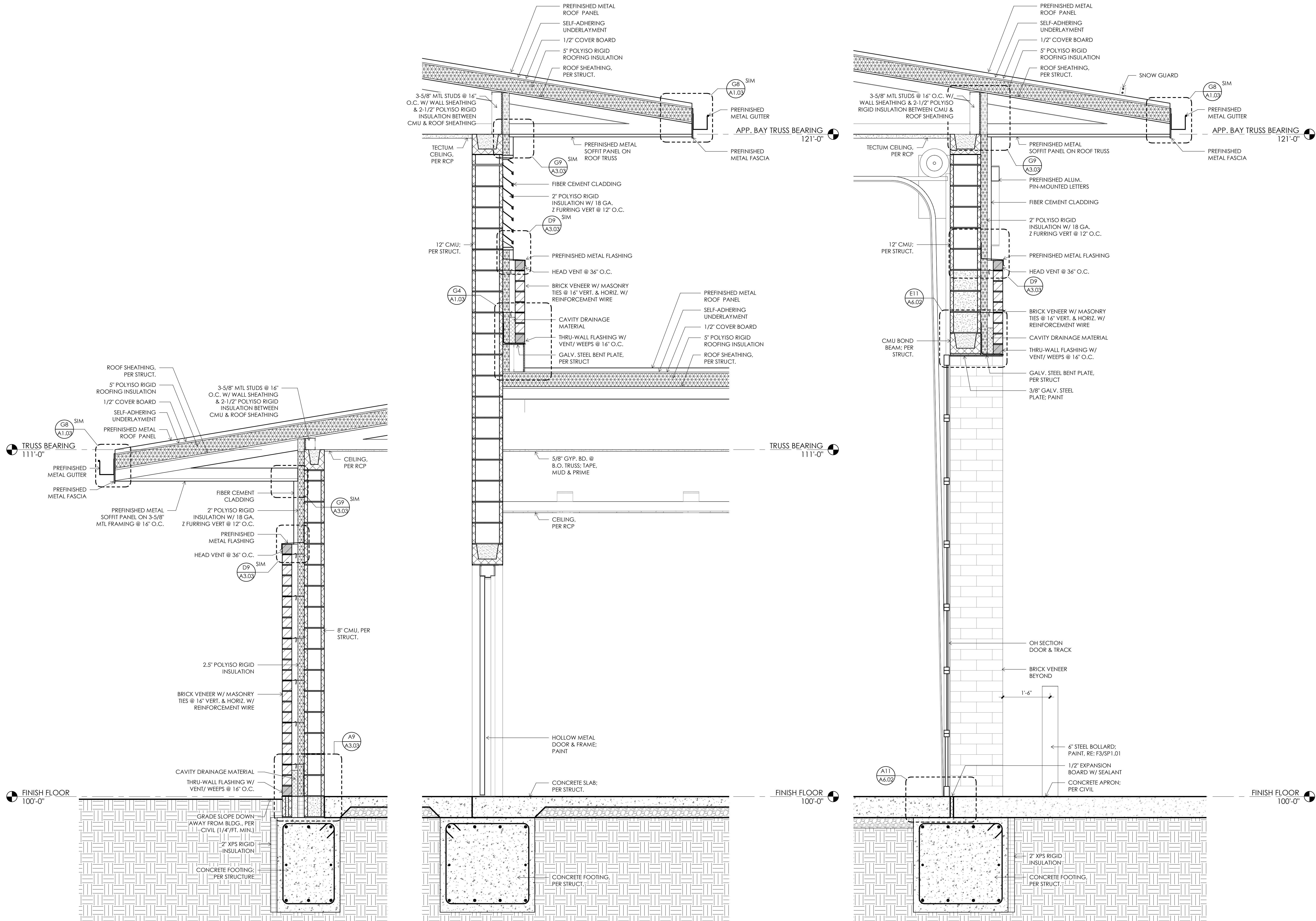
Kansas Certificate of Authority #A-516

CIVIL ENGINEER
KAW Valley Engineering
KS Certificate of Authority #29241
1627 Sunflower Lane
Salina, KS 67401
785-823-3400

Structural Engineer
Bob D. Campbell & Co.
KS Certificate of Authority #000442
4338 Bellview
Kansas City, MO 64111
816-778-7149

M/E/P Engineer
PKMR Engineers, Inc.
KS Certificate of Authority #E-2002020886
13300 W. 98th St.
Lenexa, KS 66215
913-492-2400

JOB NUMBER 22003



A10 WALL SECTION
3/4" = 1'-0"

A7 WALL SECTION
3/4" = 1'-0"

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

SALINA FIRE STATION #4

EAST CRAWFORD STREET
& MARKLEY ROAD
SALINA, KS 67401
CITY OF SALINA



Douglas Boe - Architect
KS # 8101
ISSUE DATE 09/09/2024
No. Description Date

WSKF, Inc. © 2024

WALL SECTIONS
A3.02

9/9/2024 10:24:21 AM C:\Users\MattMcCaffrey\Desktop\Revit\22003_Salina Station_4_CENTRAL_mmccaffrey\vdadach.com.rvt



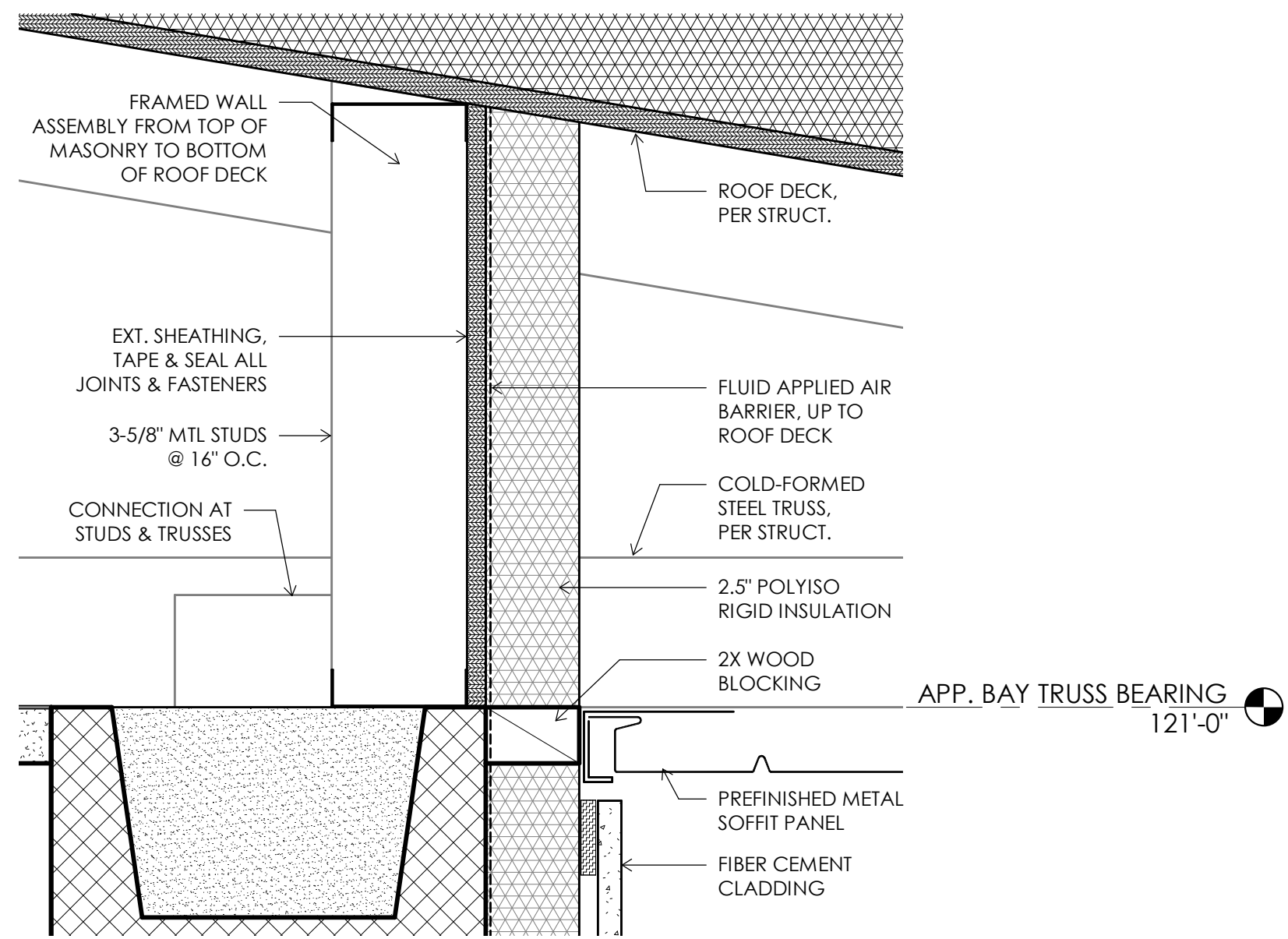
Kansas Certificate of Authority #A-516

CIVIL ENGINEER
KAW Valley Engineering
KS Certificate of Authority #29241
1627 Sunflower Lane
Salina, KS 67401
785-823-3400

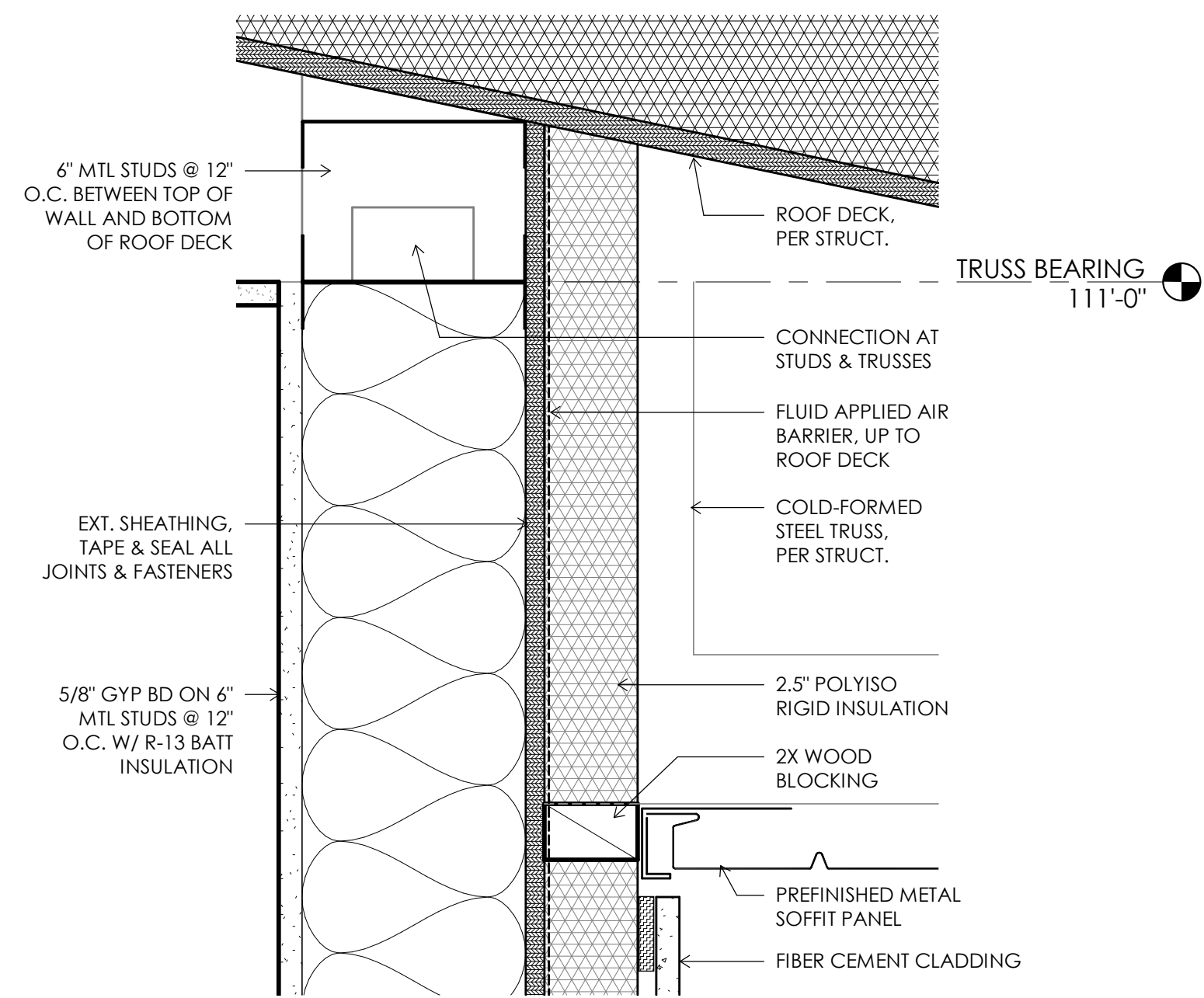
Structural Engineer
Bob D. Campbell & Co.
KS Certificate of Authority
#000442
4338 Bellview
Kansas City, MO 64111
816-778-7149

MEP Engineer
PKMR Engineers, Inc.
KS Certificate of Authority
#E-2002020886
13300 W. 98th St.
Lenexa, KS 66215
913-492-2400

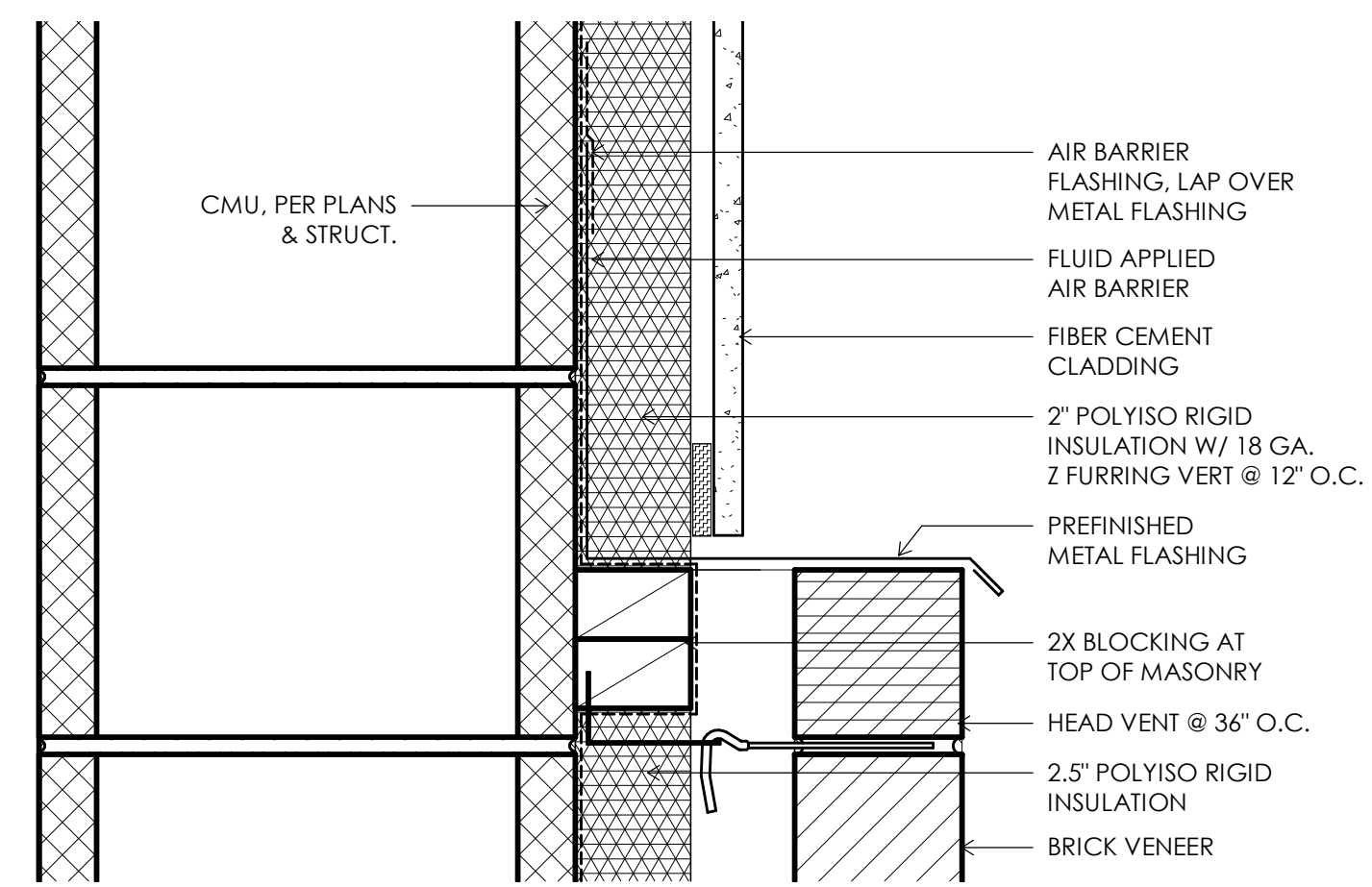
JOB NUMBER 22003



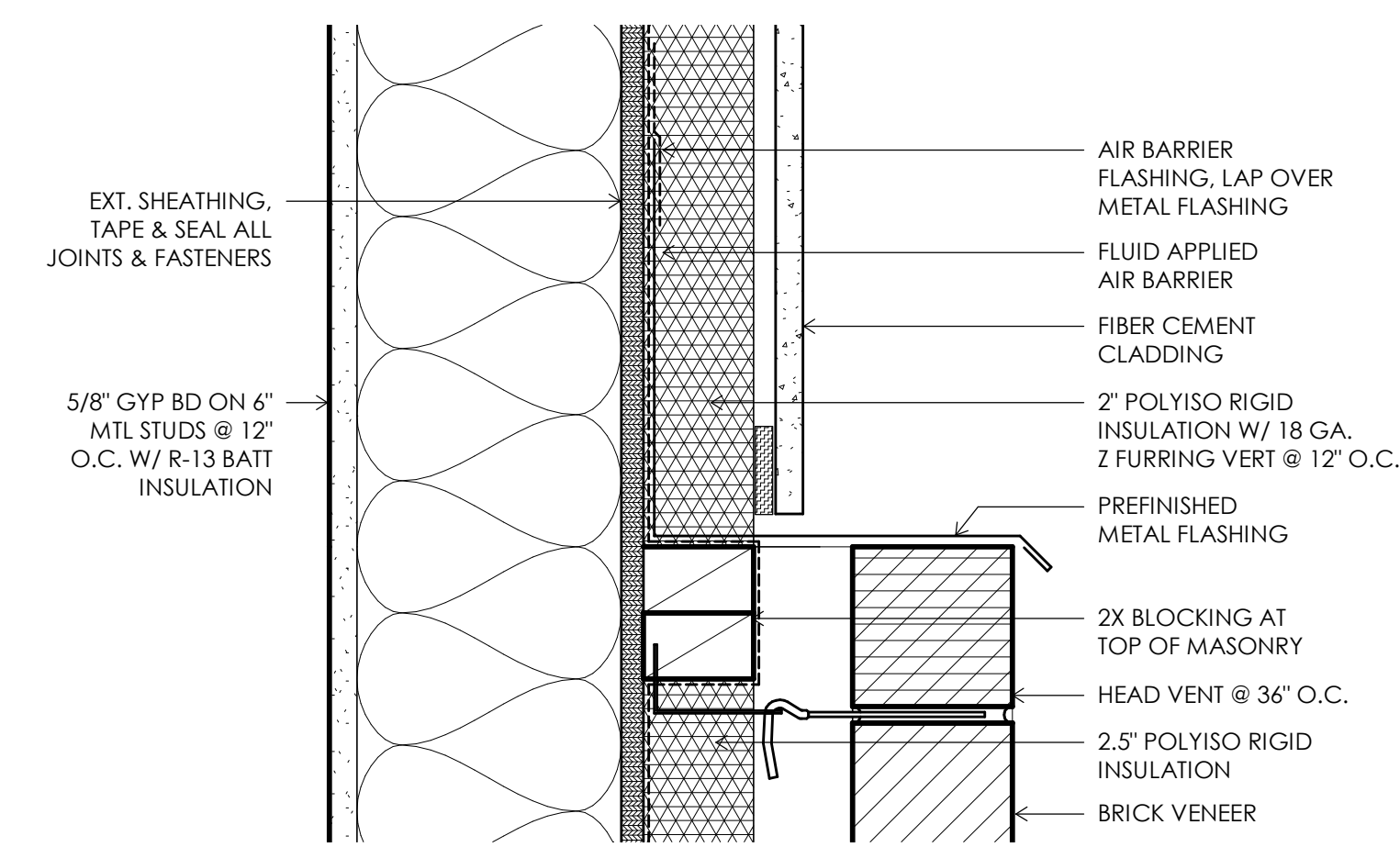
G9 SOFFIT DETAIL
3" = 1'-0"



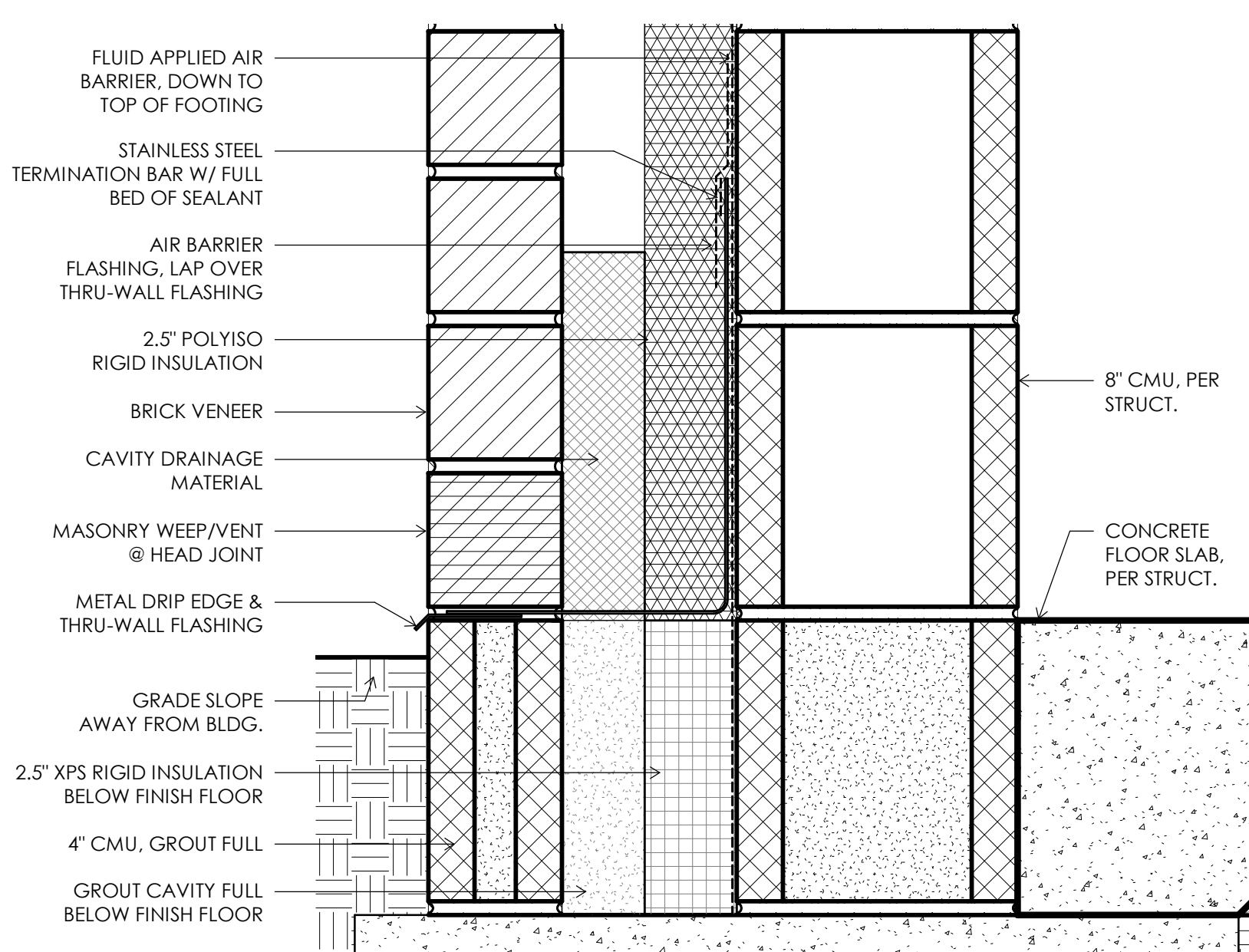
G6 SOFFIT DETAIL
3" = 1'-0"



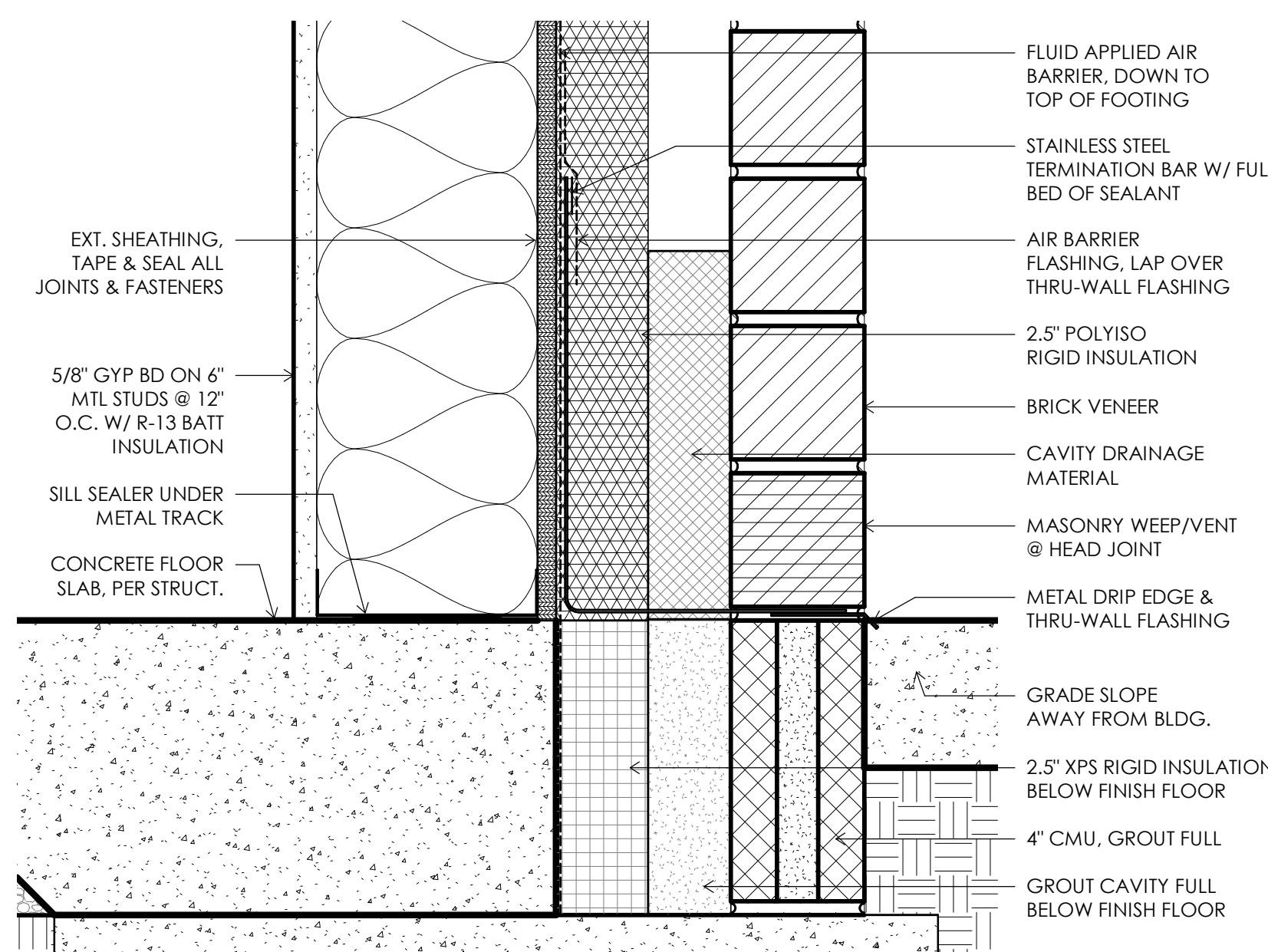
D9 MATERIAL TRANSITION
3" = 1'-0"



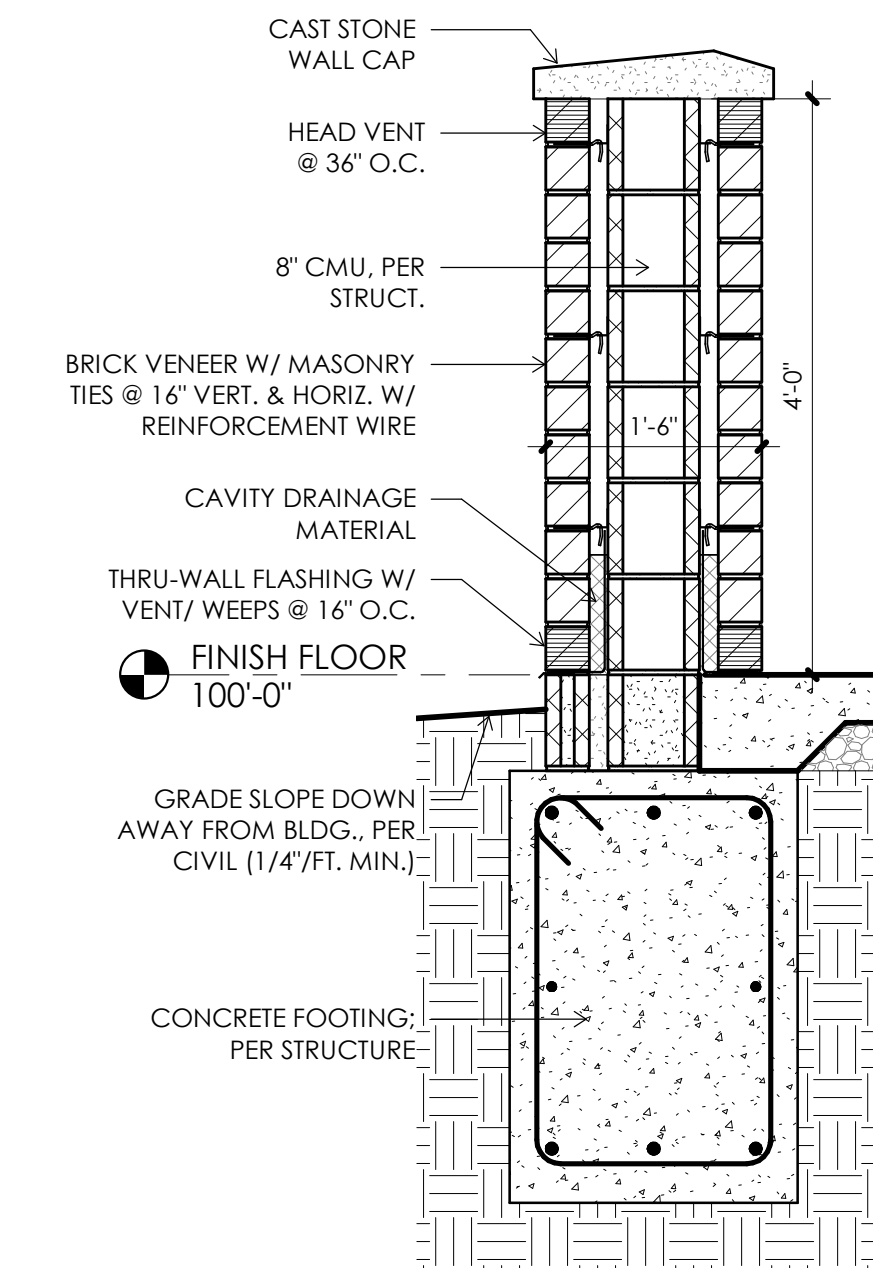
D6 MATERIAL TRANSITION
3" = 1'-0"



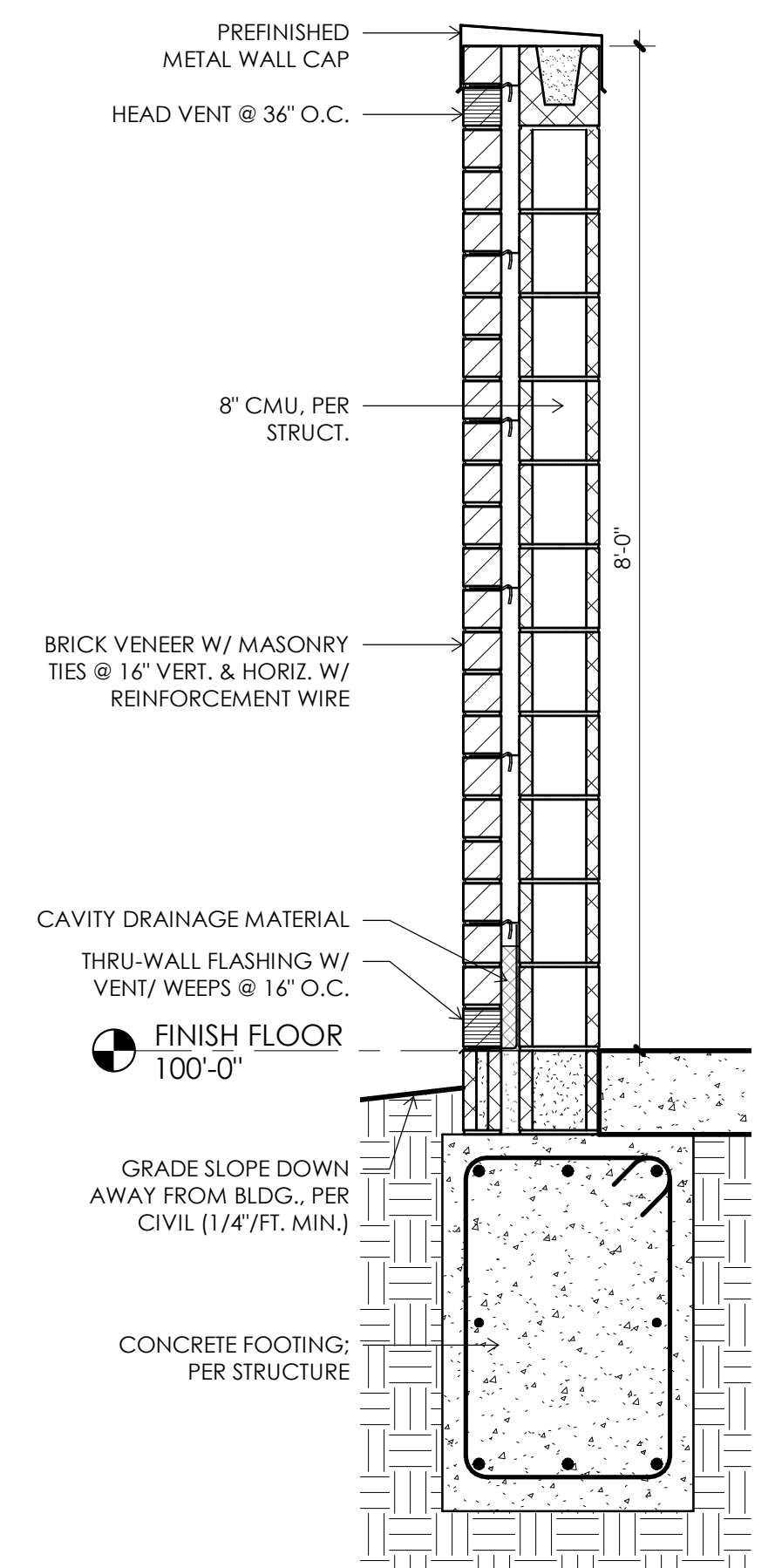
A9 BASE WALL DETAIL
3" = 1'-0"



A6 BASE WALL DETAIL
3" = 1'-0"



A3 WALL SECTION
3/4" = 1'-0"



A2 WALL SECTION
3/4" = 1'-0"

SALINA FIRE STATION #4

EAST CRAWFORD STREET
& MARKLEY ROAD
SALINA, KS 67401
CITY OF SALINA



Douglas Boe - Architect
KS # 8101

ISSUE DATE 09/09/2024

No. Description Date

WSKF, Inc. © 2024

SECTION
DETAILS

A3.03

9/9/2024 10:24:23 AM
C:\Users\MathMcCaffrey\Desktop\Revit\22003_Salina Station 4_CENTRAL_mmccaffrey\vdtdrct.com.rvt

9/9/2024 10:24:30 AM C:\Users\MathMcCaffrey\Desktop\Revit\2003_Salina\Station 4_CENTRAL_mnccaffrey\vd\arch.com\vt

K
J
H
G
F
E
D
C
B
A

12

11

10

9

8

7

6

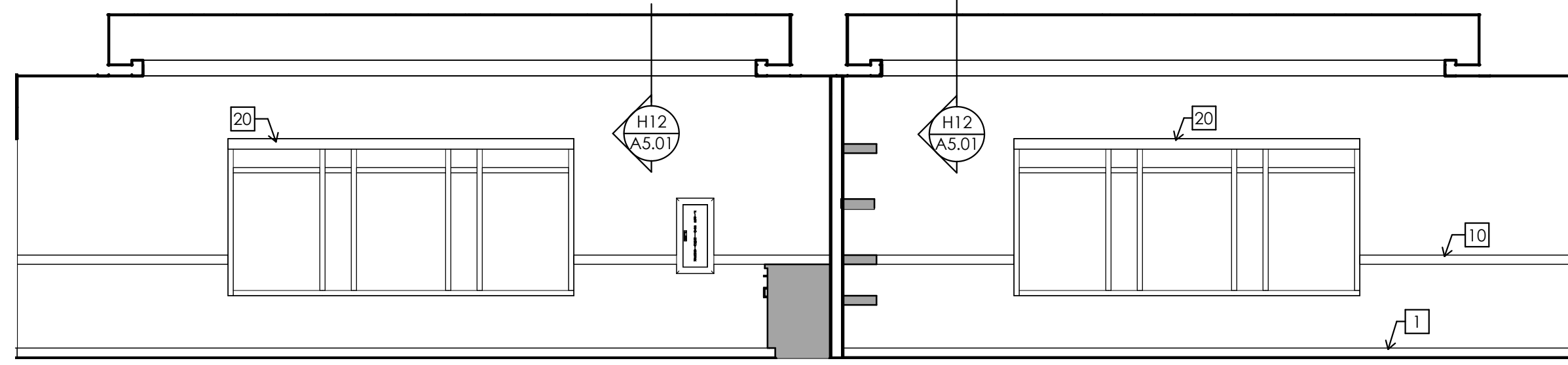
5

4

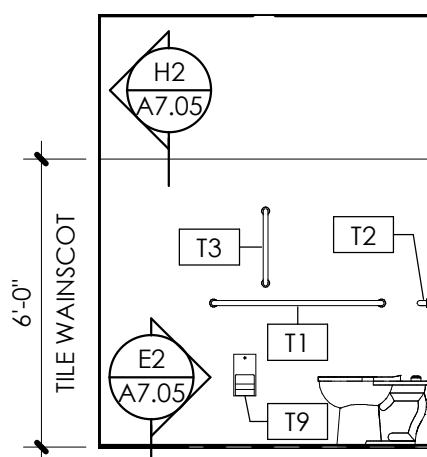
3

2

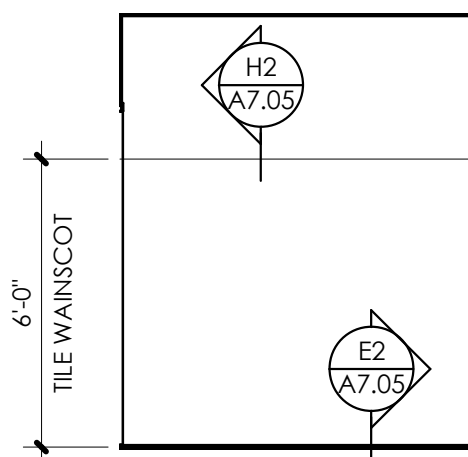
1



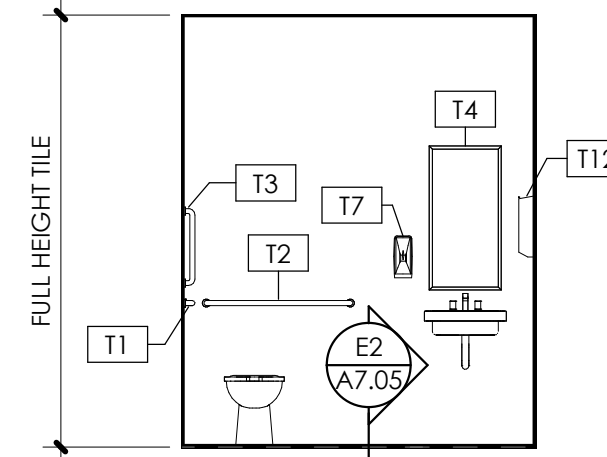
J11 DAYROOM/ KITCHEN
1/4" = 1'-0"



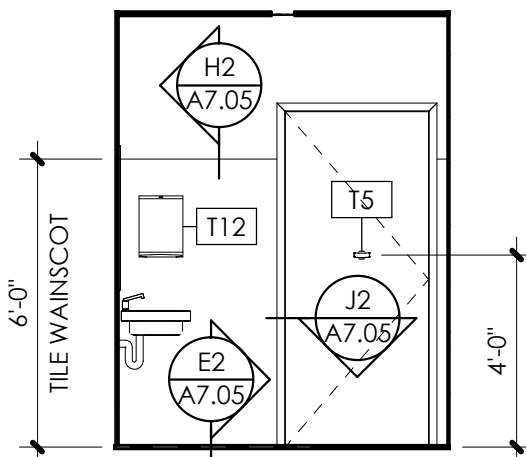
J7 STAFF TOILET
1/4" = 1'-0"



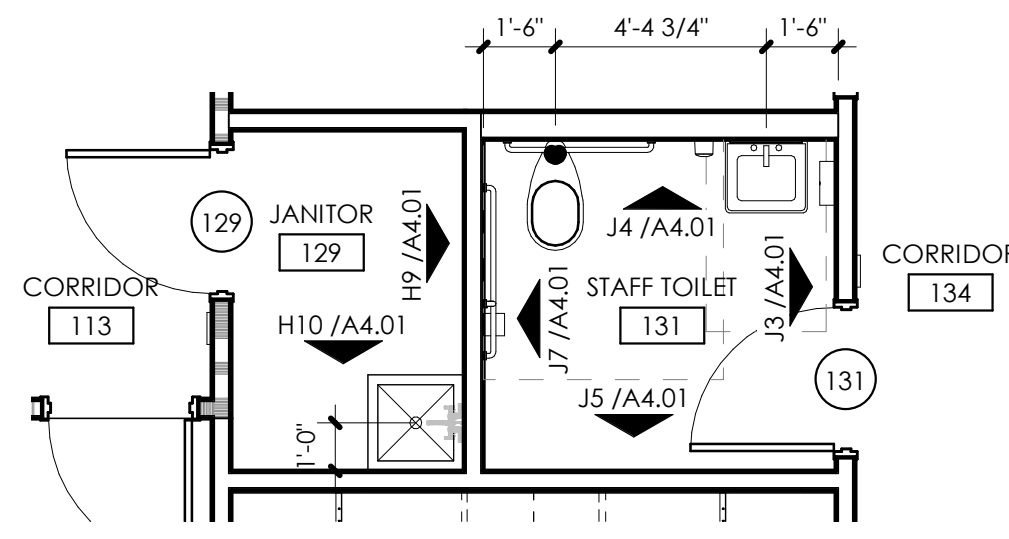
J5 STAFF TOILET
1/4" = 1'-0"



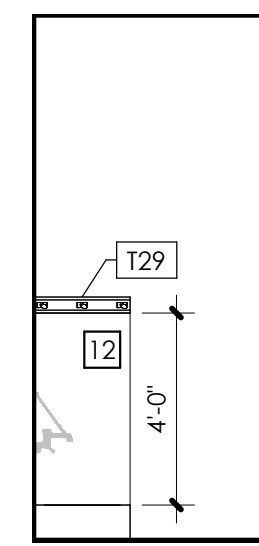
J4 STAFF TOILET
1/4" = 1'-0"



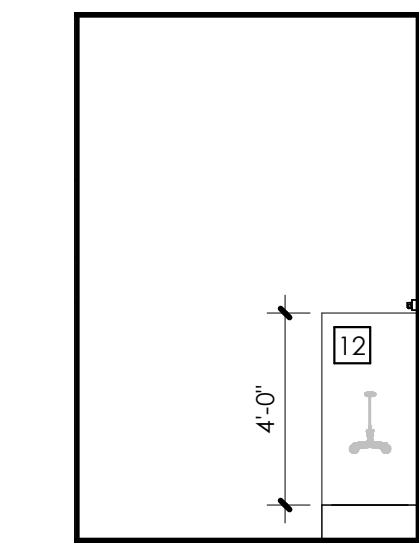
J3 STAFF TOILET
1/4" = 1'-0"



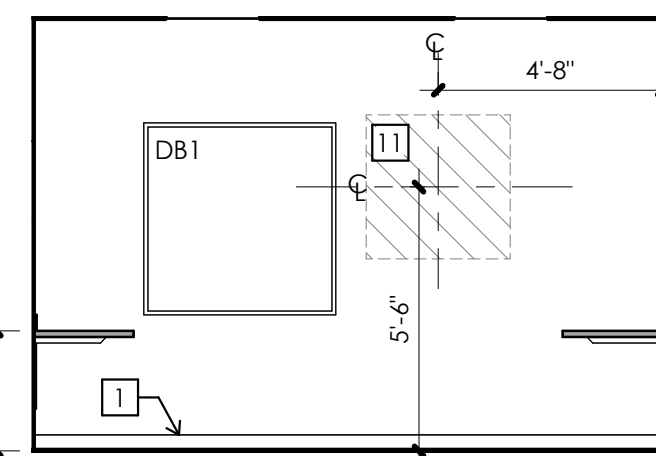
ENLARGED PLAN - STAFF



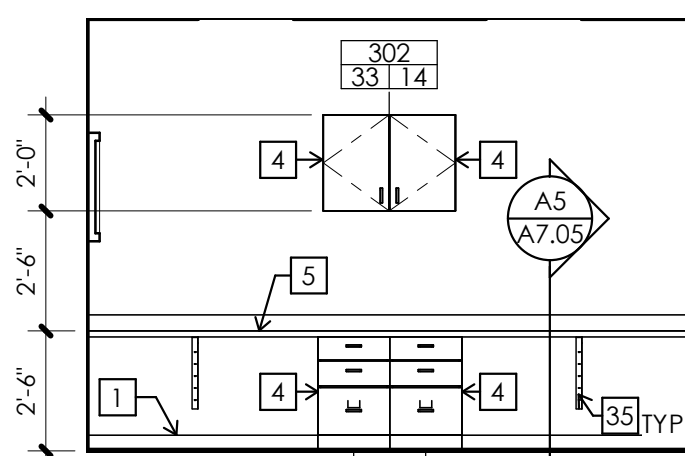
H12 TOILET
1/4" = 1'-0"



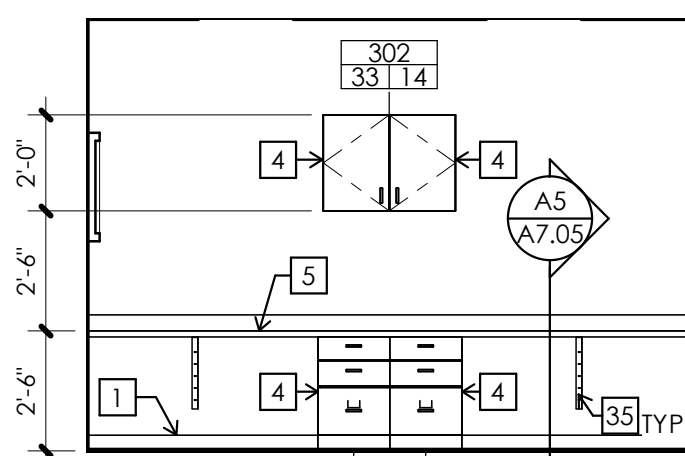
H10 JANITOR
1/4" = 1'-0"



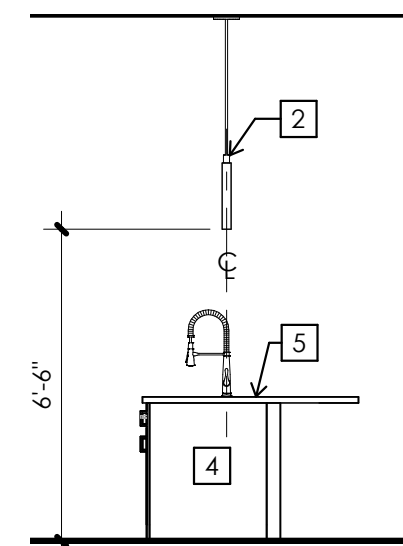
H9 JANITOR
1/4" = 1'-0"



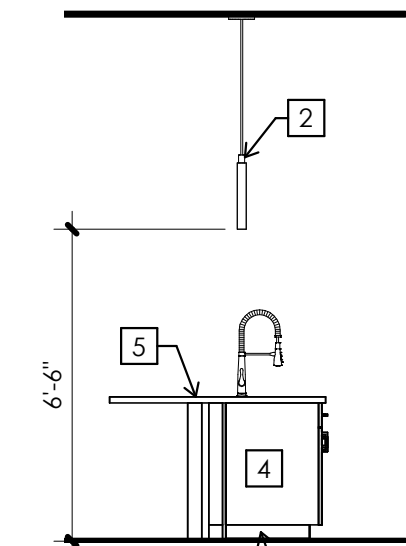
H8 OFFICE
1/4" = 1'-0"



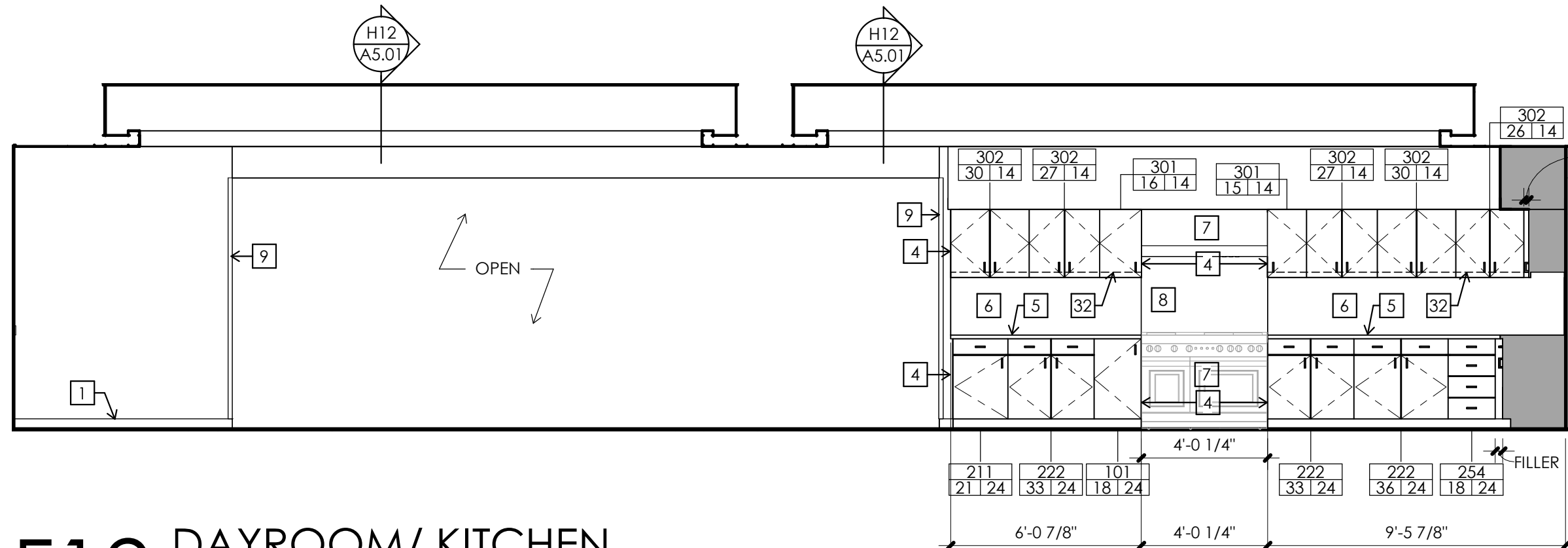
H7 OFFICE
1/4" = 1'-0"



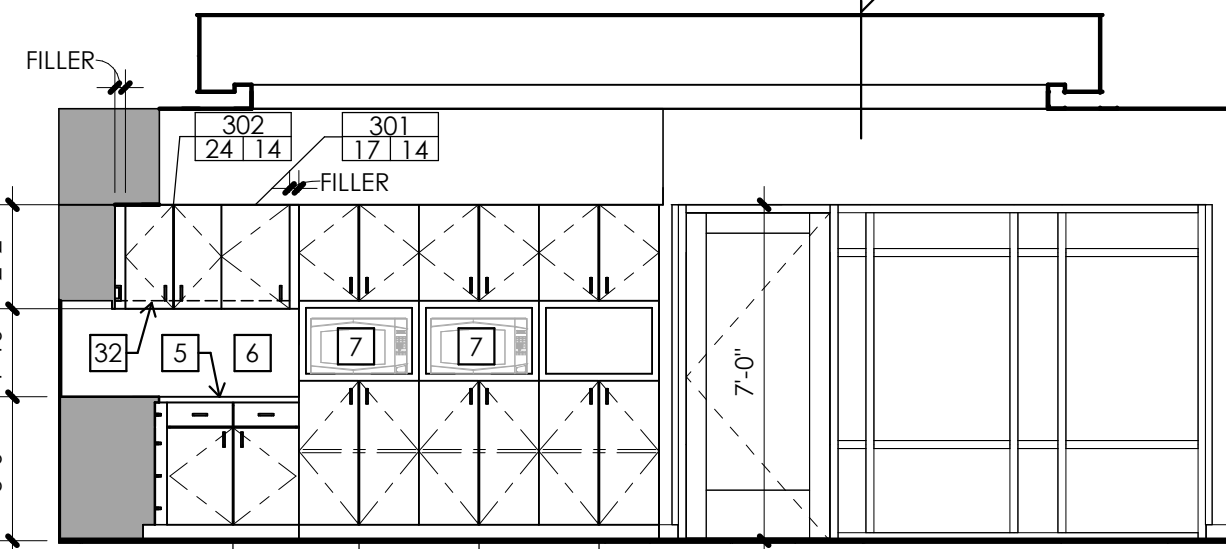
H5 KITCHEN ISLAND
1/4" = 1'-0"



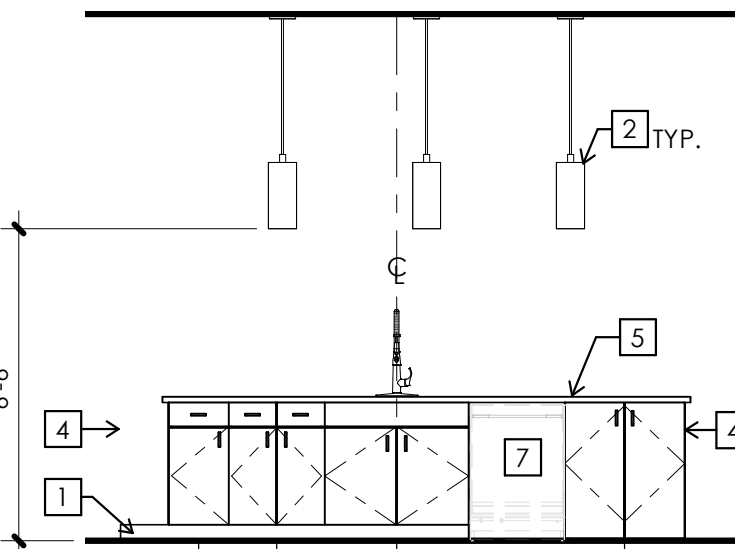
H3 KITCHEN ISLAND
1/4" = 1'-0"



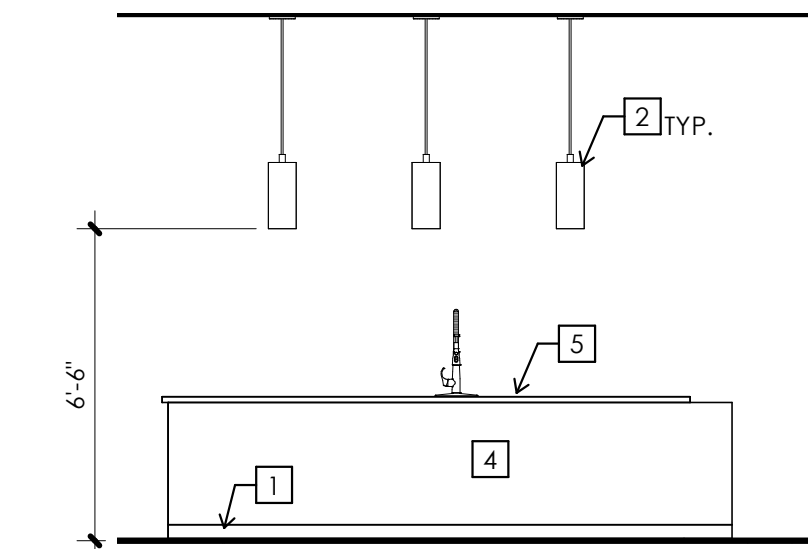
F12 DAYROOM/ KITCHEN
1/4" = 1'-0"



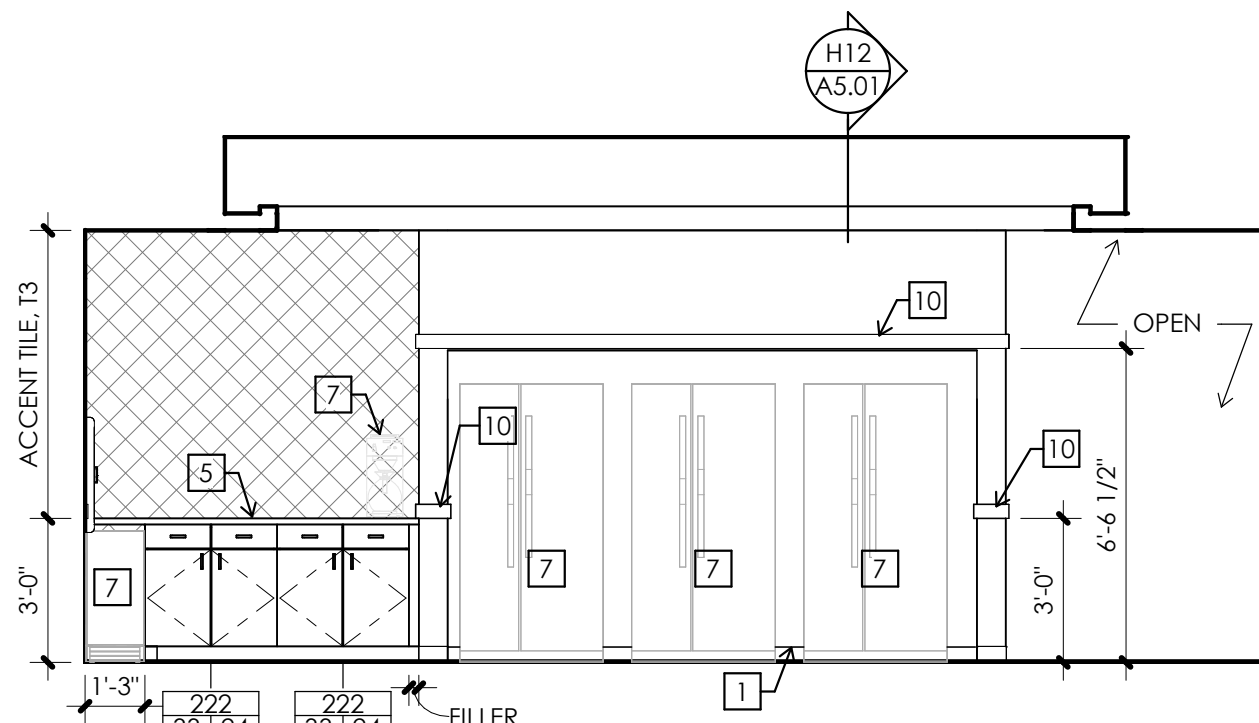
F7 KITCHEN
1/4" = 1'-0"



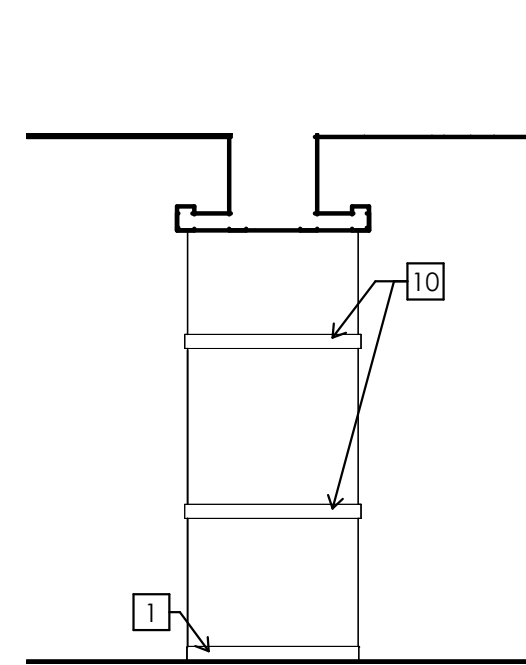
F5 KITCHEN ISLAND
1/4" = 1'-0"



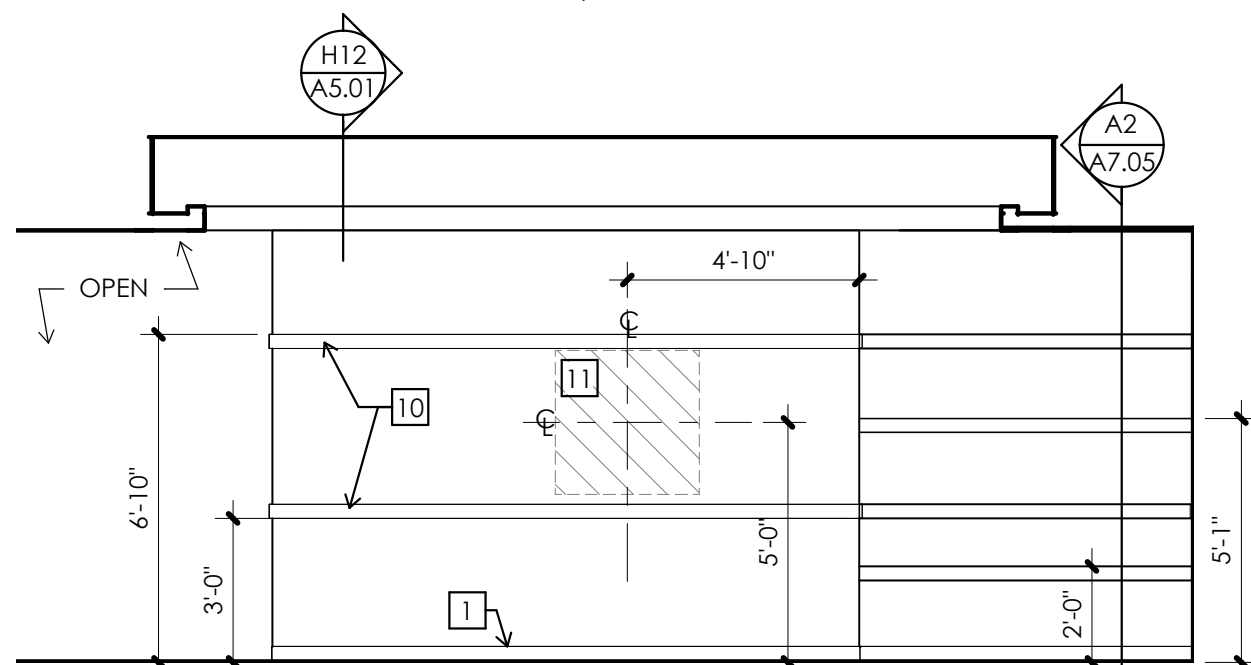
F3 KITCHEN ISLAND
1/4" = 1'-0"



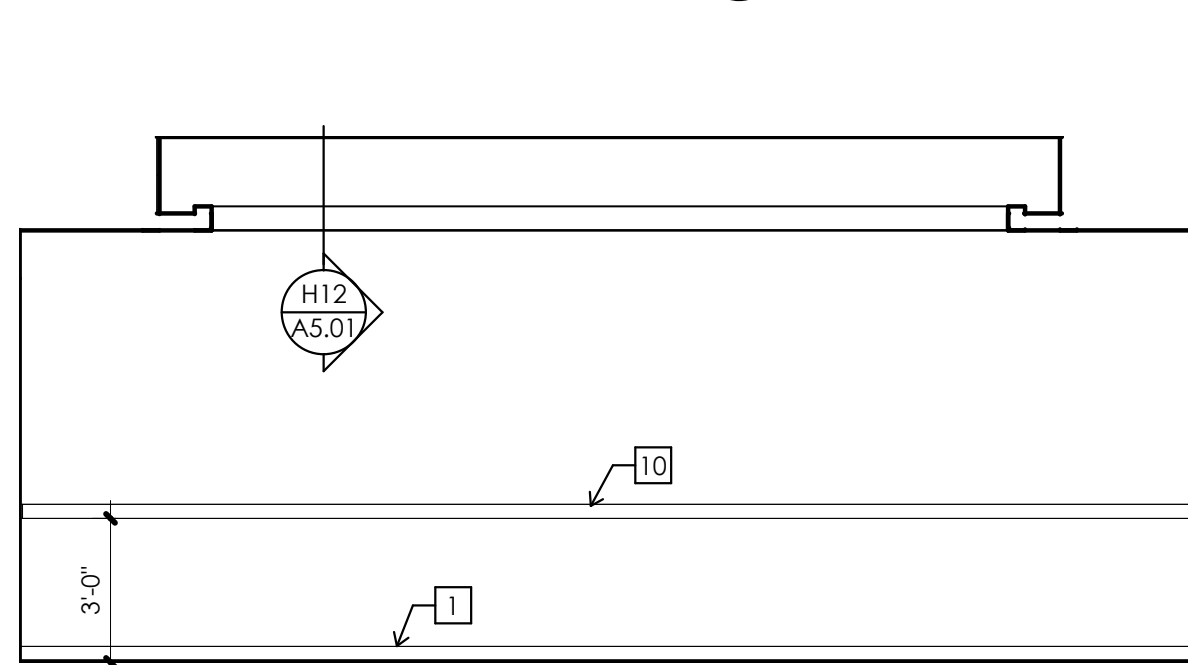
D12 KITCHEN/DINING
1/4" = 1'-0"



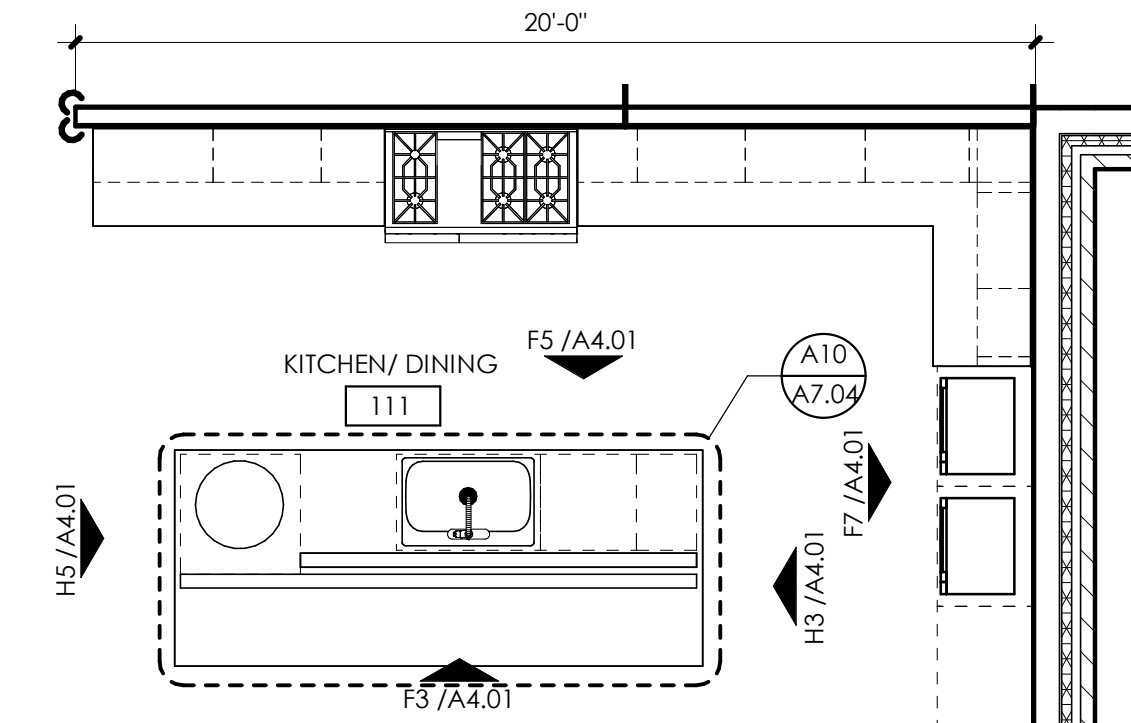
D10 DAYROOM
1/4" = 1'-0"



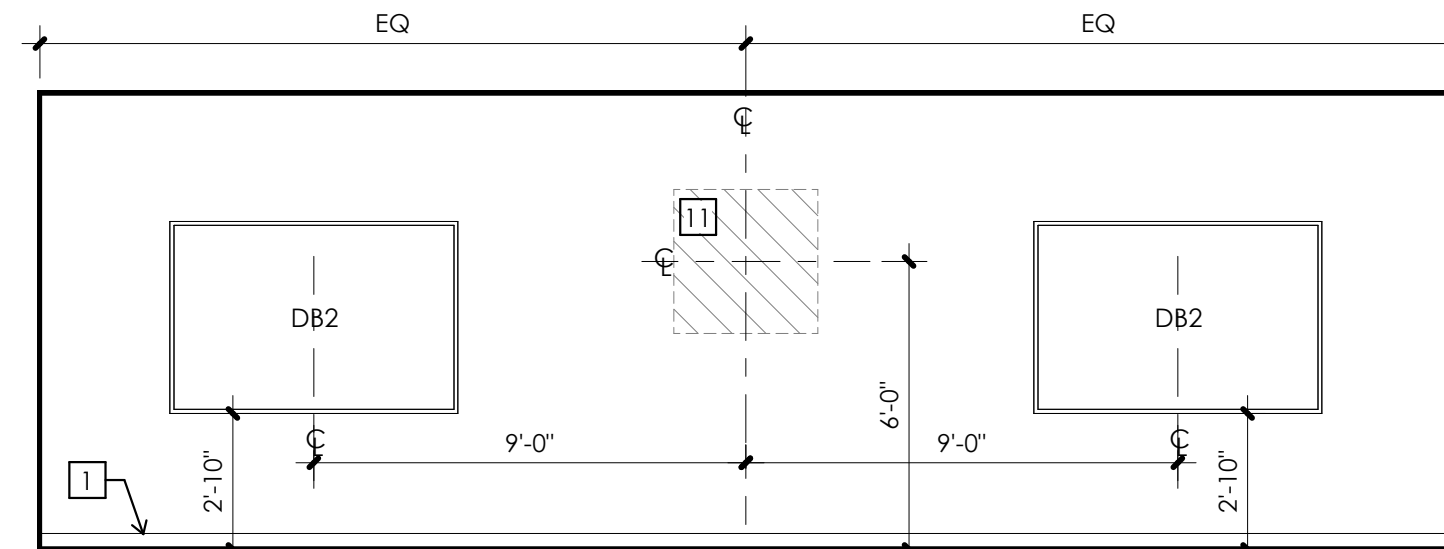
D9 DAYROOM
1/4" = 1'-0"



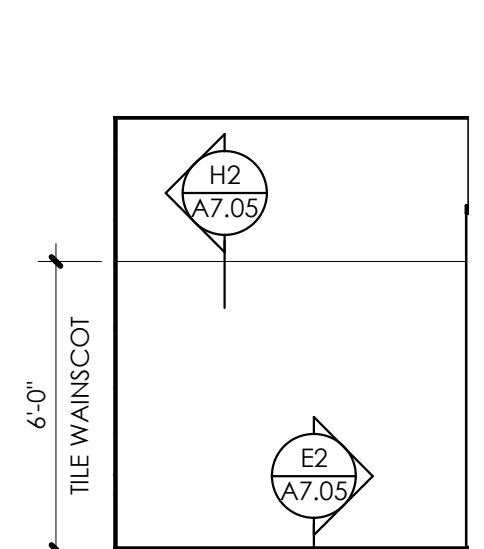
D6 DAYROOM
1/4" = 1'-0"



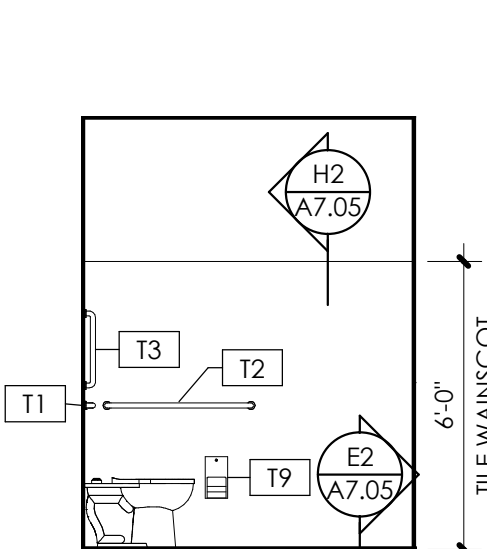
D4 ENLARGED PLAN
1/4" = 1'-0"



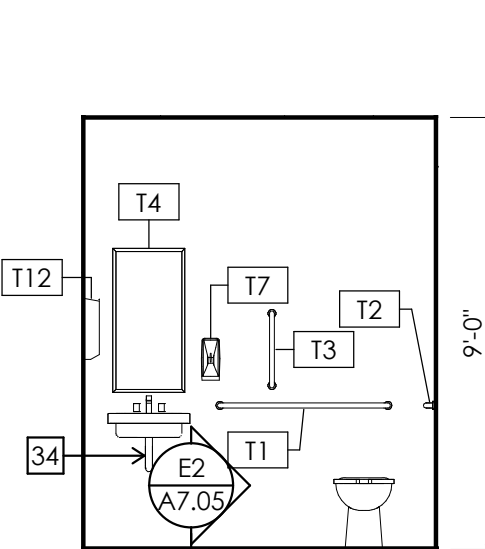
B12 TRAINING ROOM
1/4" = 1'-0"



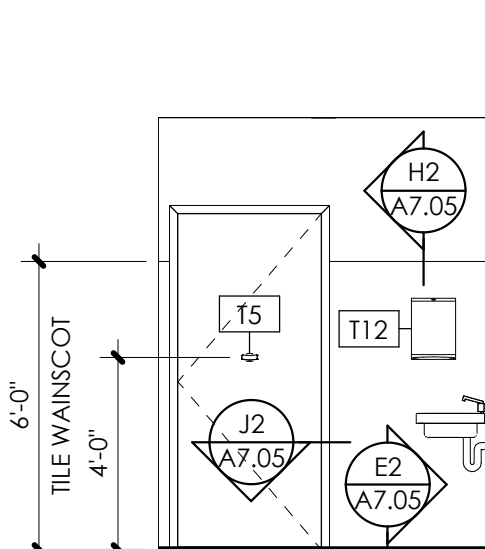
B9 RESTROOM
1/4" = 1'-0"



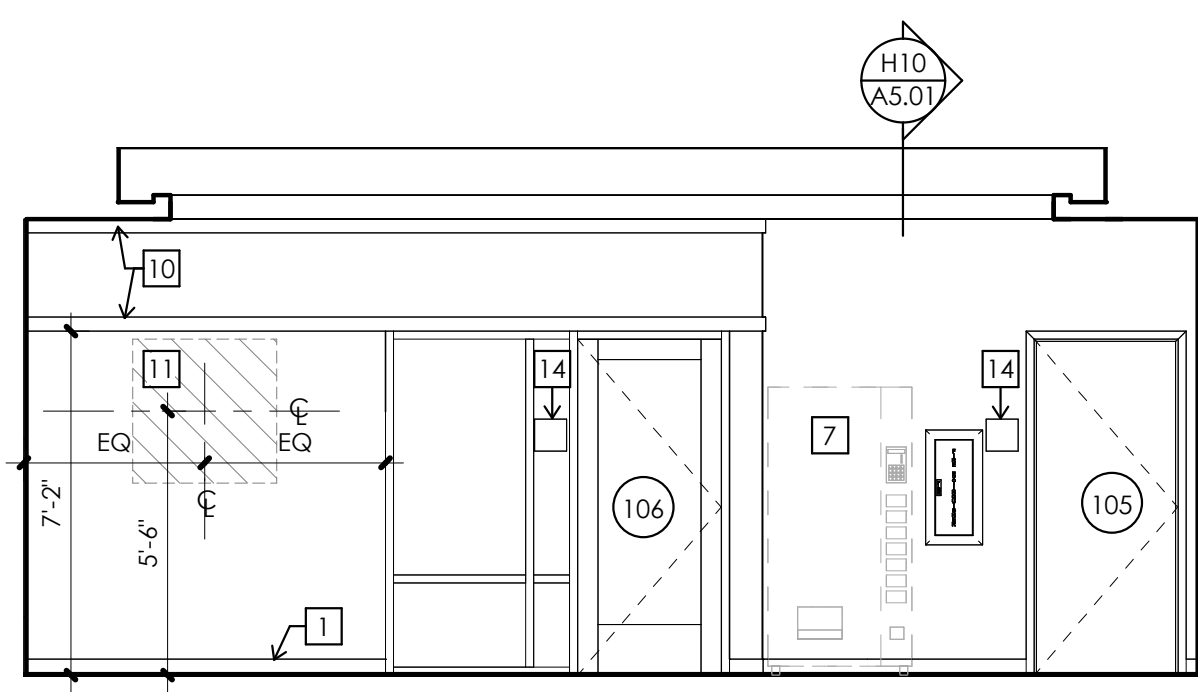
B8 RESTROOM
1/4" = 1'-0"



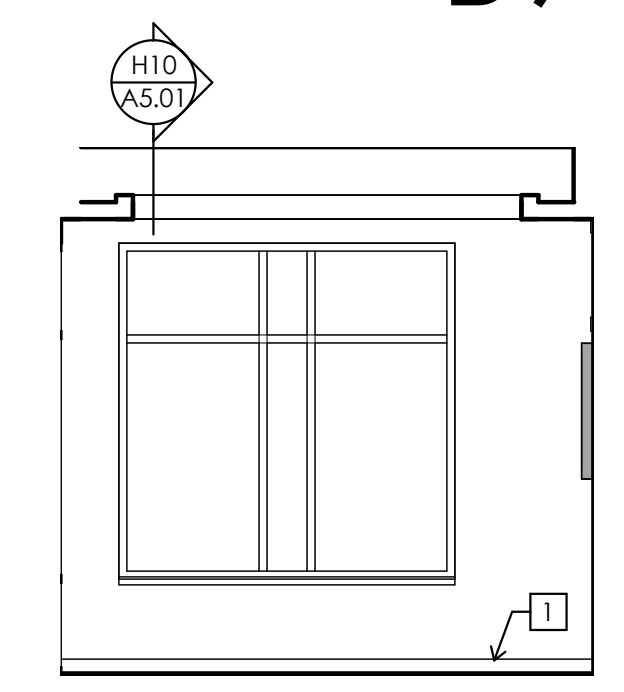
B7 RESTROOM
1/4" = 1'-0"



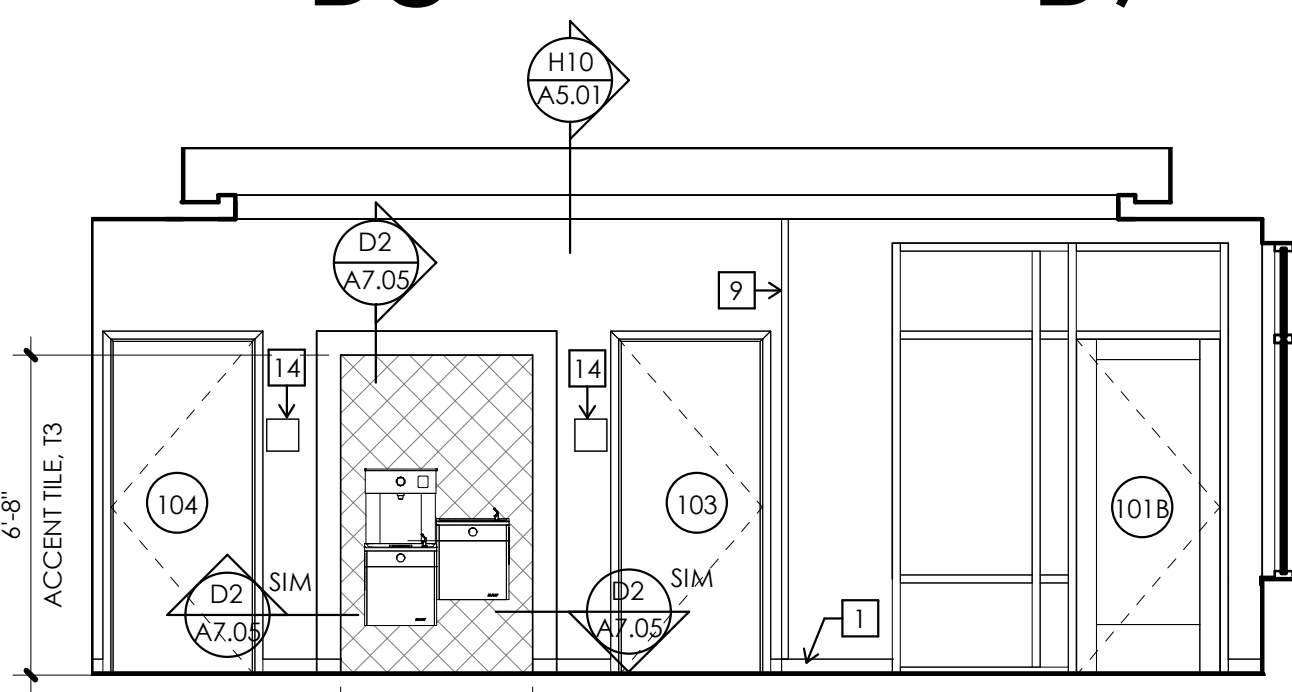
B5 RESTROOM
1/4" = 1'-0"



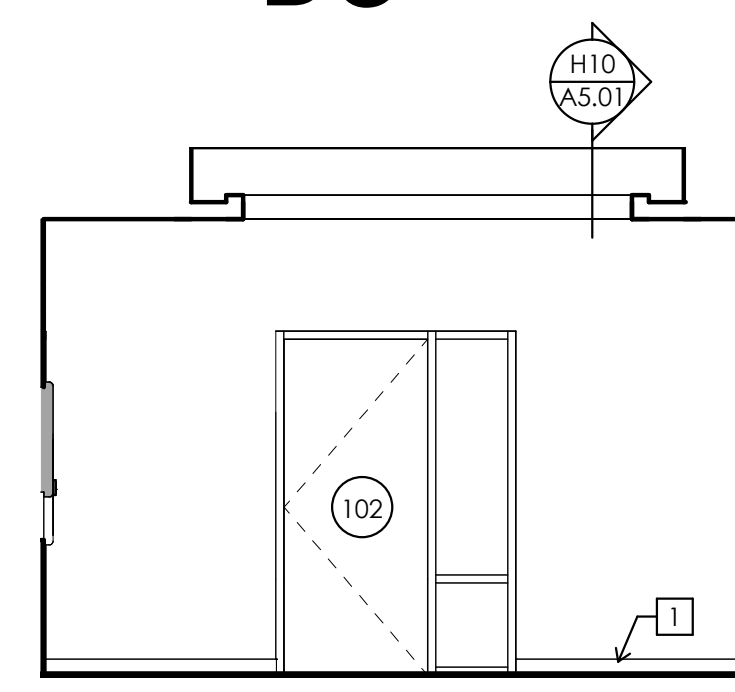
A12 LOBBY
1/4" = 1'-0"



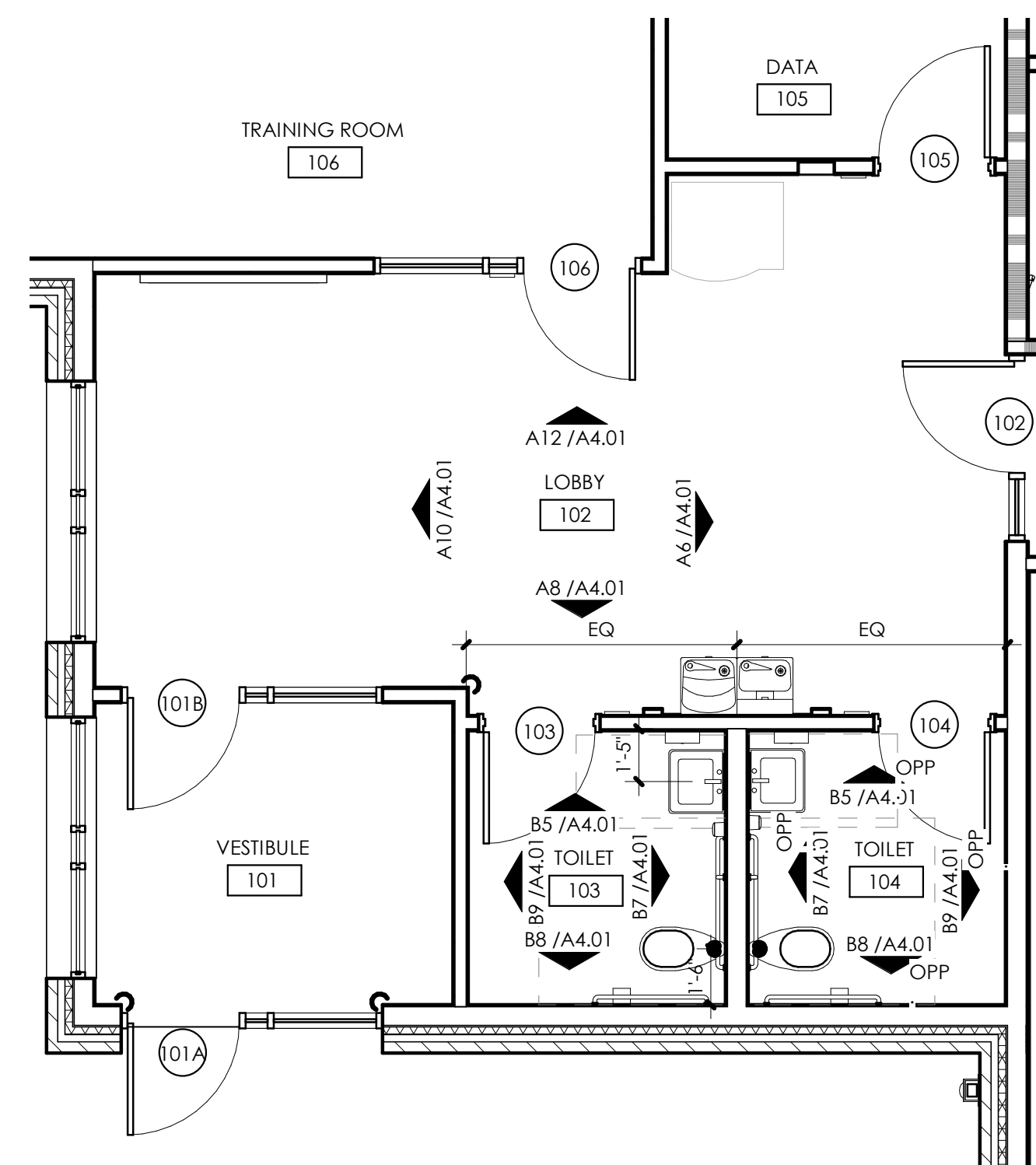
A10 LOBBY
1/4" = 1'-0"



A8 LOBBY
1/4" = 1'-0"



A6 LOBBY
1/4" = 1'-0"



A4 ENLARGED PLAN
1/4" = 1'-0"

GENERAL NOTES:

- FOR ITEMS LABELED [1] REFER TO SPEC SECTION 102800 - TOILET, BATH, AND LAUNDRY ACCESSORIES.
- FOR ITEMS LABELED [2] REFER TO FINISH SCHEDULE ON A7.01.
- ALL DIMENSIONS ON INTERIOR ELEVATIONS ARE FROM FINISHED SURFACES.
- OFCI = OWNER FURNISHED, OWNER INSTALLED.
- OFCI = OWNER FURNISHED, CONTRACTOR INSTALLED.
- REFER TO CASEWORK SCHEDULE ON A7.04 AND CASEWORK TAG, SEE BELOW.

ELEVATION NOTES:

- WALL BASE PER FINISH SCHEDULE
- DECORATIVE LIGHT FIXTURE, RE: ELEC.
- MIRROR W/ INTEGRAL LED LIGHTING, RE: ELEC. & TOILET ACCESSORY SCHEDULE
- FINISHED END OF CASEWORK
- COUNTERTOP PER FINISH SCHEDULE
- QUARTZ SLAB BACKSPASH
- EQUIPMENT, RE: FFE PLAN
- STAINLESS STEEL WALL CLADDING TO EXTEND FROM FLOOR TO BOTTOM OF VENTHOOD
- FULL HEIGHT CORNER GUARD PER FINISH SCHEDULE
- WOOD TRIM
- IN-WALL BLOCKING FOR WALL MOUNTED MONITOR, RE: A3/A7.05; RE: ELEC. FOR PWR AND DATA REGS.
- STAINLESS STEEL WALL CLADDING AT MOP SINK
- GYP. BD. CONTROL JOINT
- ROOM SIGN, RE: SIGNAGE SCHEDULE
- PASS THRU LOCKERS W/ FILLER & ANGLE TRM AROUND WALL OPENING
- WOOD WALL CAP
- READING LIGHT, RE: ELEC.
- CEILING FAN, RE: ELEC.
- LOCKER, PER SPEC
- ROLLER SHADE; RE: SCHEDULE ON A7.04
- SOLID SURFACE SHOWER RECEPTOR; RE: SPEC SECTION 102116
- SHOWER CONTROLS, RE: PLUMBING DWGS
- SHOWERHEAD, RE: PLUMBING DWGS
- FRAMELESS MIRROR
- SURFACE MOUNTED LIGHT, RE: ELEC
- PLUG MOLD, RE: ELEC
- TYPE 304 STAINLESS STEEL ADJ. SHELVES; 16" D. X 48" W.; RE: SPEC SECTION 123553.13
- TYPE 304 STAINLESS STEEL TABLE W/ LOWER SHELF; 30" D. X 48" W.; RE: SPEC SECTION 123553.13
- FULL HEIGHT PRIVACY SHOWER PARTITION DOOR
- HEATER, RE: MEP DWGS.
- EXHAUST CAPTURE SYSTEM
- UNDER CABINET TASK LIGHTING
- RECESSED NIGHT LIGHT, RE: ELEC. DWGS.
- INSULATED PIPE WRAP COVER; RE: PLUMBING DWGS.
- COUNTERTOP SUPPORT BRACKET @ 32" O.C. MAX U.N.O.
- EMERGENCY EYE WASH STATION; RE: PLUMBING DWGS.
- WALL MOUNTED FAN; RE: ELEC. DWGS.
- WALL MOUNTED LAUNDRY TUB; RE: PLUMBING DWGS.
- BOTTLE FILL STATION; RE: PLUMBING DWGS.
- RECESSED SOLID SURFACE SHELF, RE: SPEC SECTION 066100; COORDINATE IN-WALL FRAMING W/ MANUFACTURER'S INSTRUCTIONS
- BUILT HEADBOARD, TYPICAL IN SINGLE BUNK ROOMS



Kansas Certificate of Authority #A-516

CIVIL ENGINEER
KAW Valley Engineering
KS Certificate of Authority #29241
1627 Sunflower Lane
Salina, KS 67401
785-823-3400

Structural Engineer
Bob D. Campbell & Co.
KS Certificate of Authority
#000442
4338 Bellview
Kansas City, MO 64111
816-778-7149

MEP Engineer
PKMR Engineers, Inc.
KS Certificate of Authority
#E-2002020886
13300 W. 98th St.
Lenexa, KS 66215
913-492-2400

JOB NUMBER 22003

SALINA FIRE STATION #4

EAST CRAWFORD STREET
& MARKLEY ROAD
SALINA, KS 67401
CITY OF SALINA
755 Minnesota Ave., Suite 662 Kansas City, Kansas 66101 Tel. 816.300.4101 Fax 816.300.4102



Douglas Boe - Architect
KS #8101

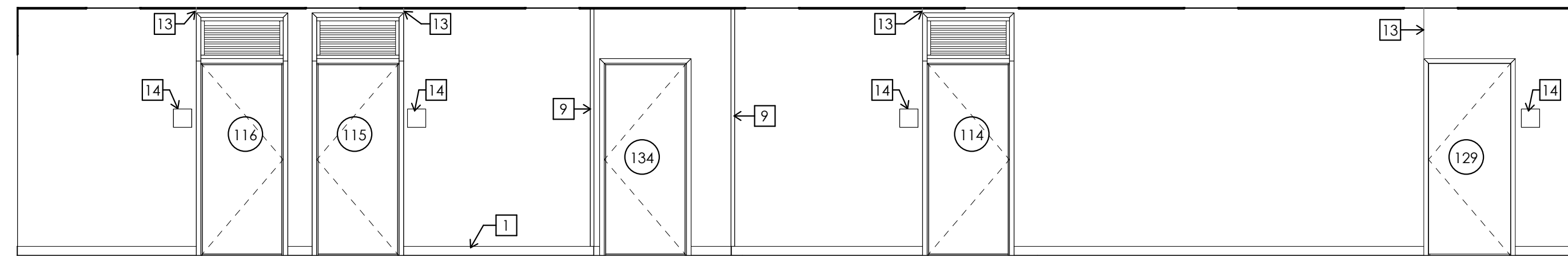
ISSUE DATE 09/09/2024

No. Description Date

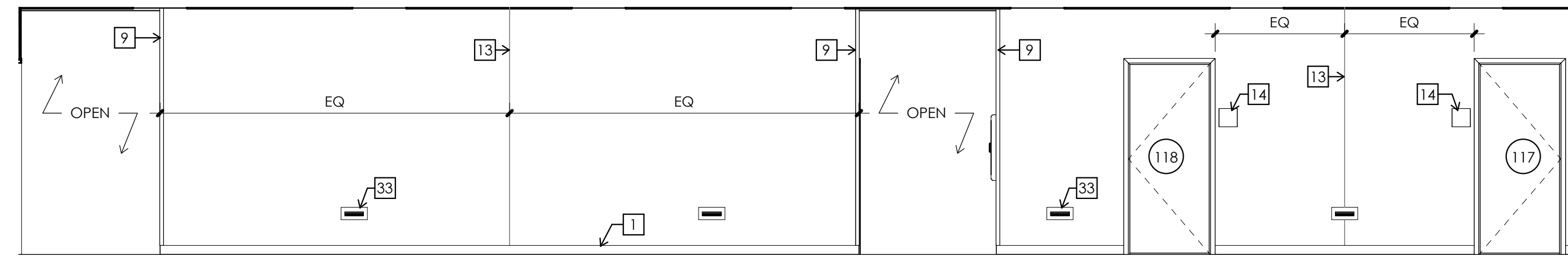
WSKF, Inc. © 2024

INTERIOR ELEVATIONS

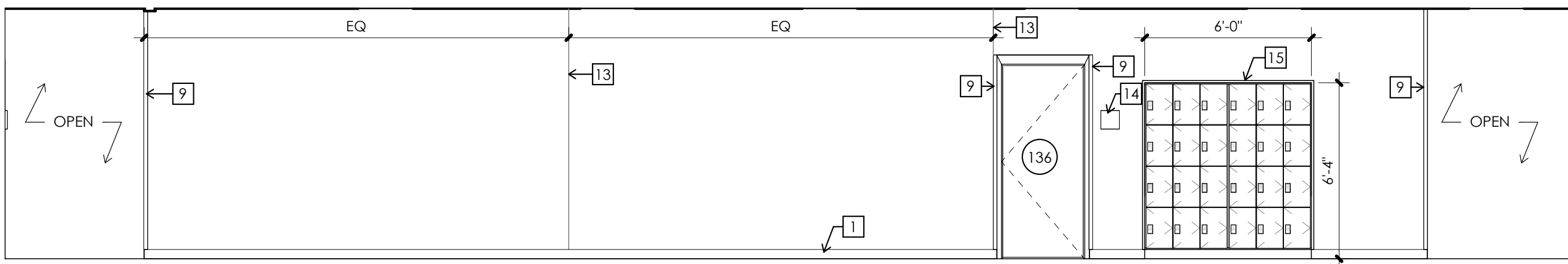
A4.01



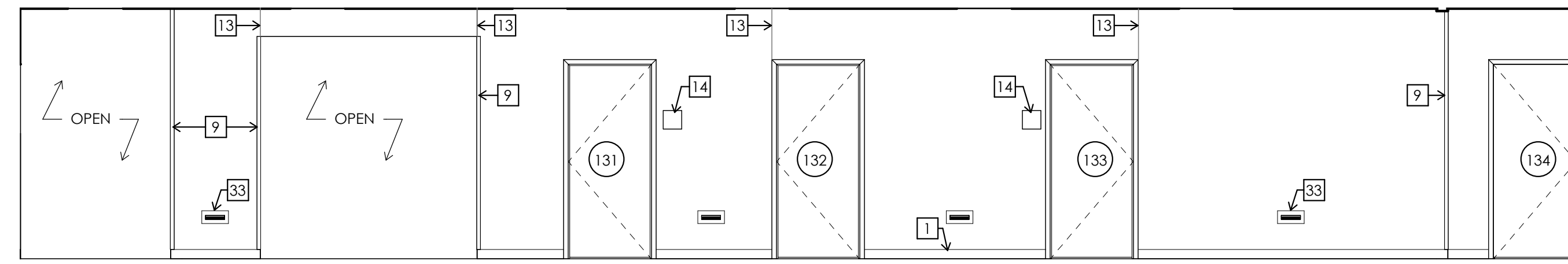
J12 EAST BUNK CORRIDOR
1/4" = 1'-0"



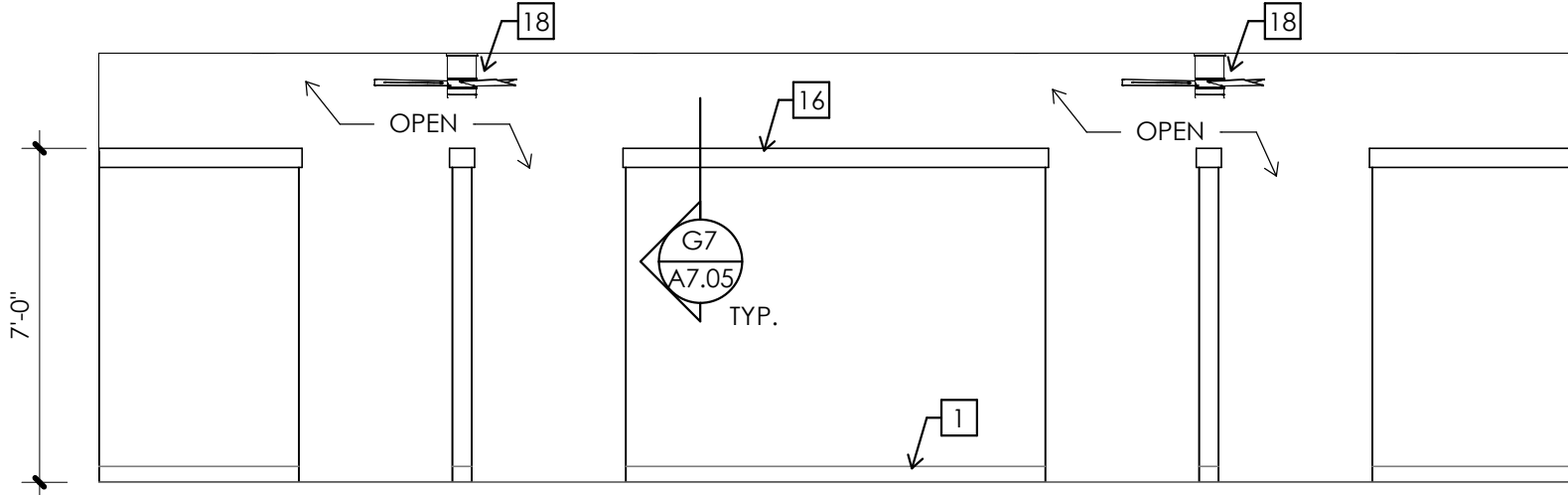
J7 BUNK CORRIDOR
1/4" = 1'-0"



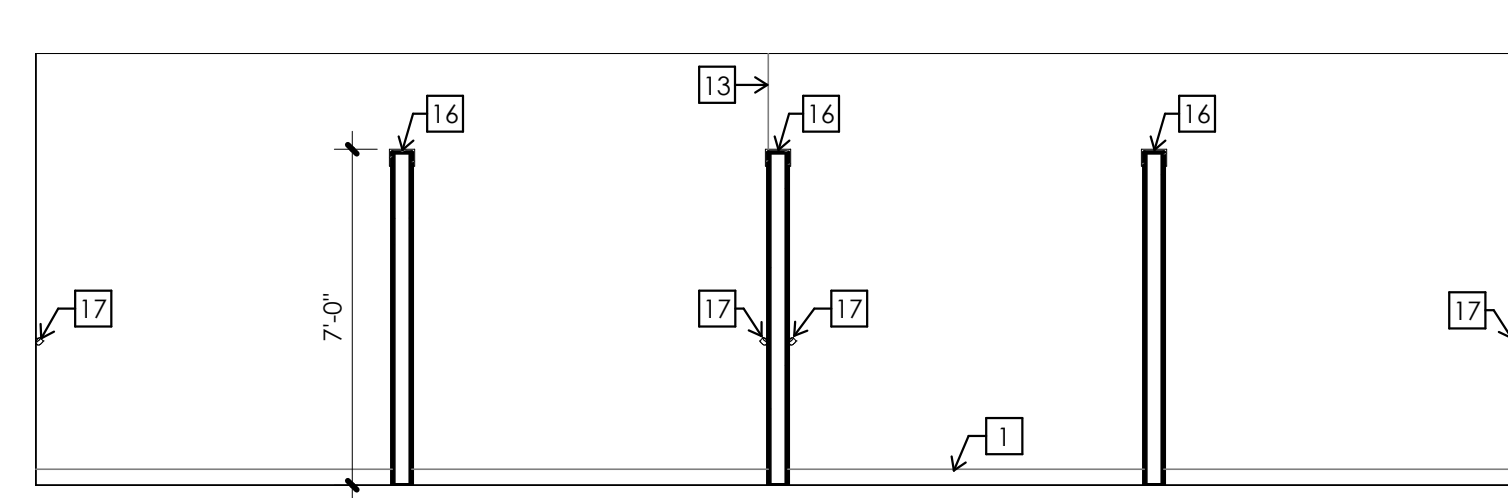
G12 CORRIDOR 134
1/4" = 1'-0"



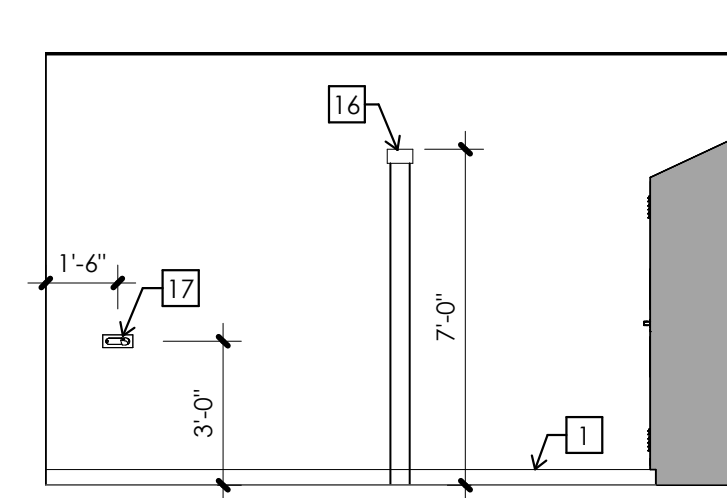
G7 CORRIDOR 134
1/4" = 1'-0"



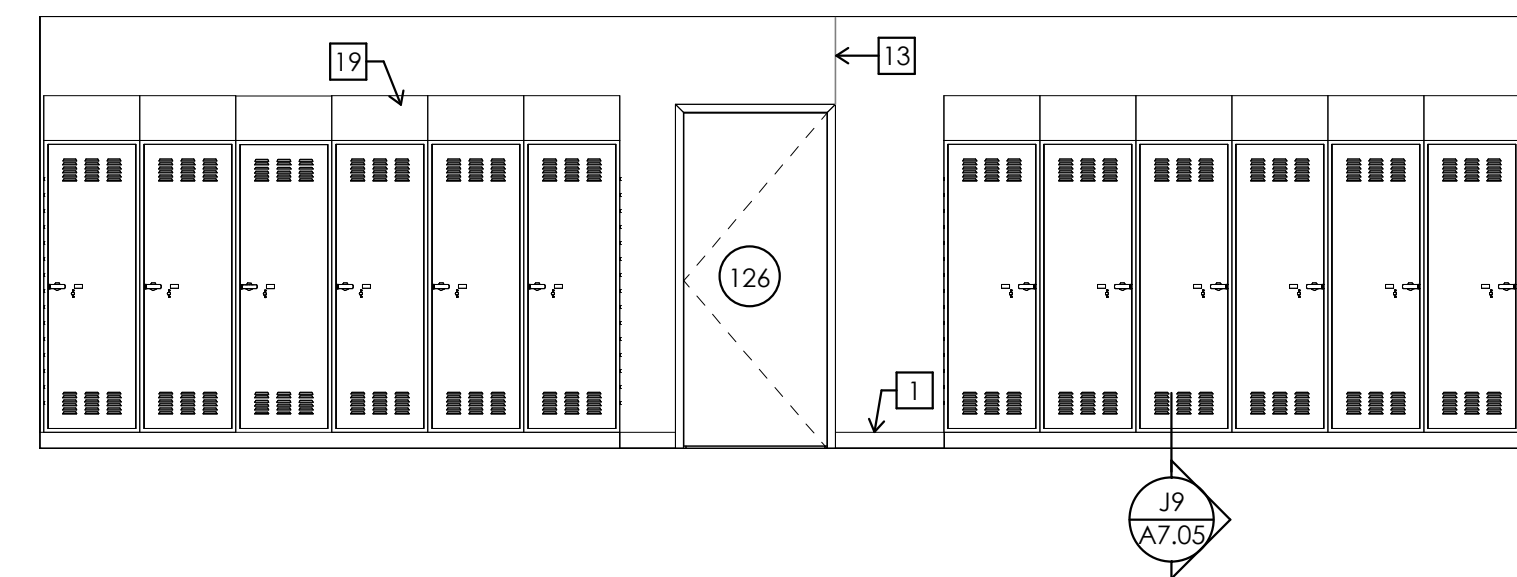
F12 BUNK ROOM 126
1/4" = 1'-0"



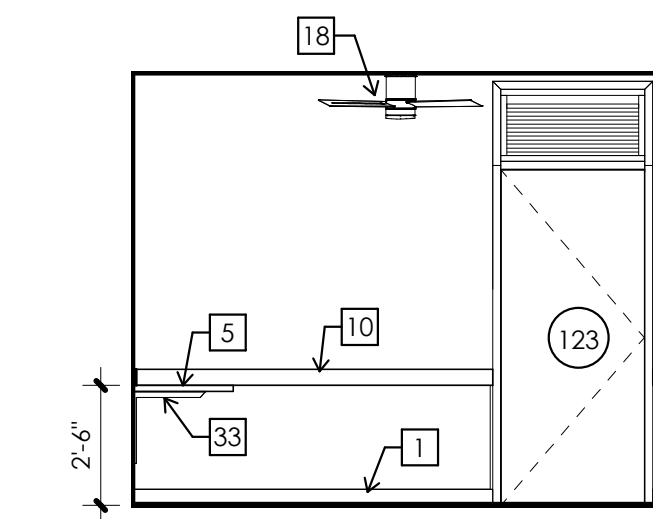
F9 BUNK ROOM 126
1/4" = 1'-0"



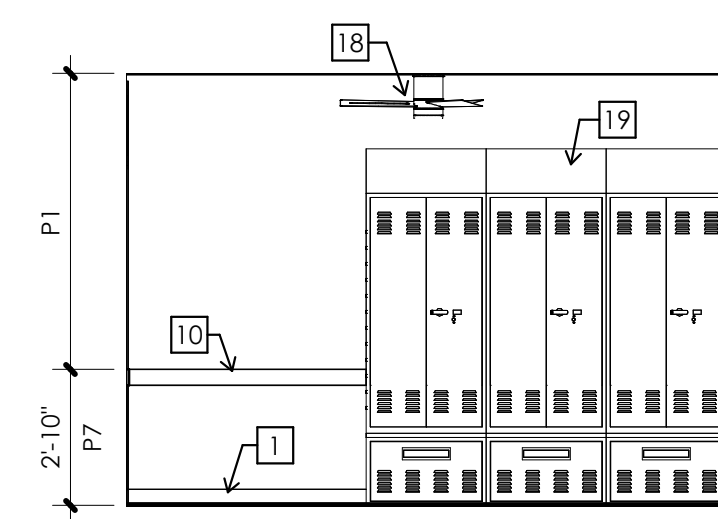
F6 BUNK ROOM 126
1/4" = 1'-0"



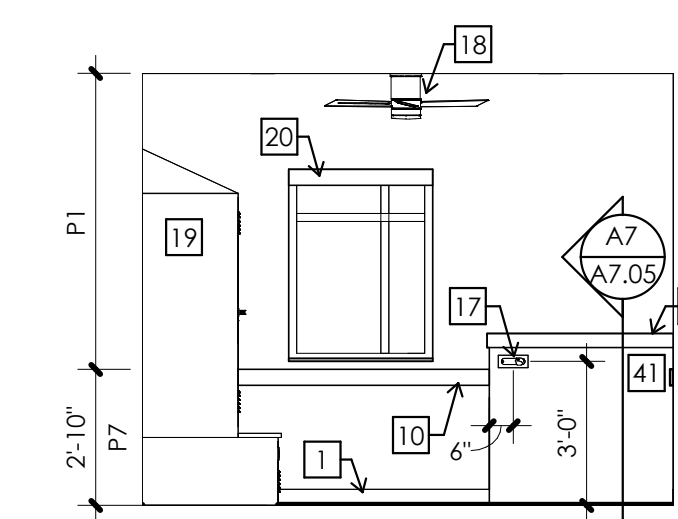
D12 BUNK ROOM 126
1/4" = 1'-0"



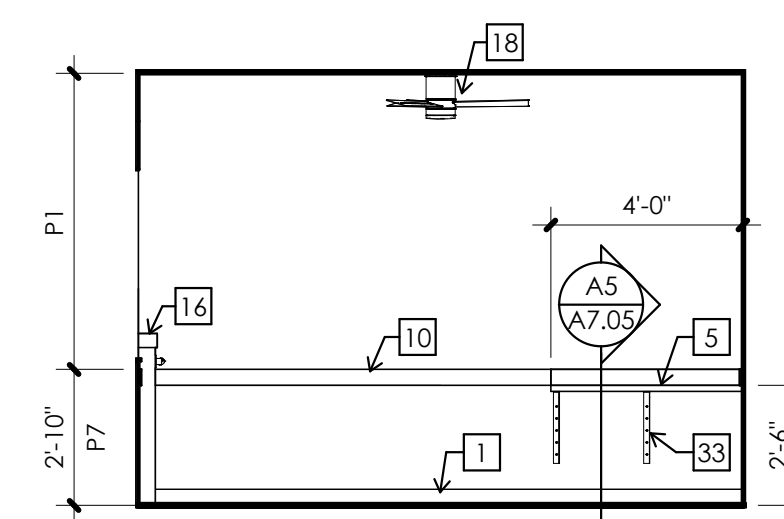
D9 TYP. BUNK
1/4" = 1'-0"



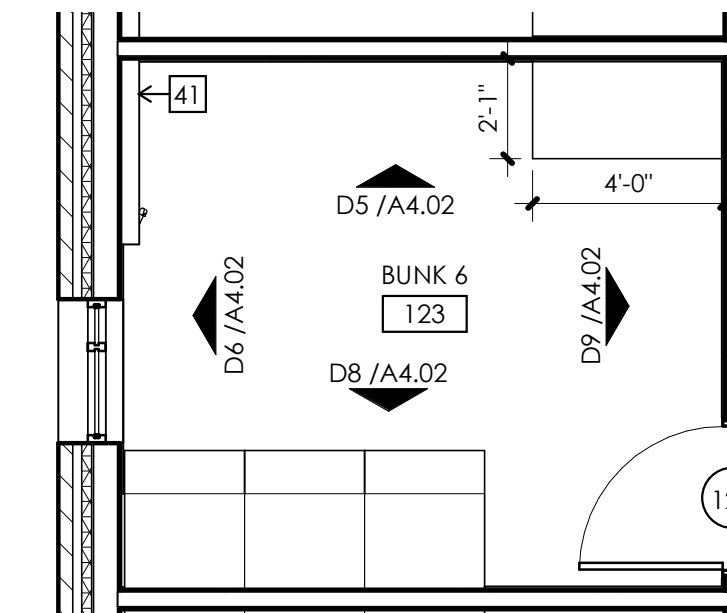
D8 TYP. BUNK
1/4" = 1'-0"



D6 TYP. BUNK
1/4" = 1'-0"

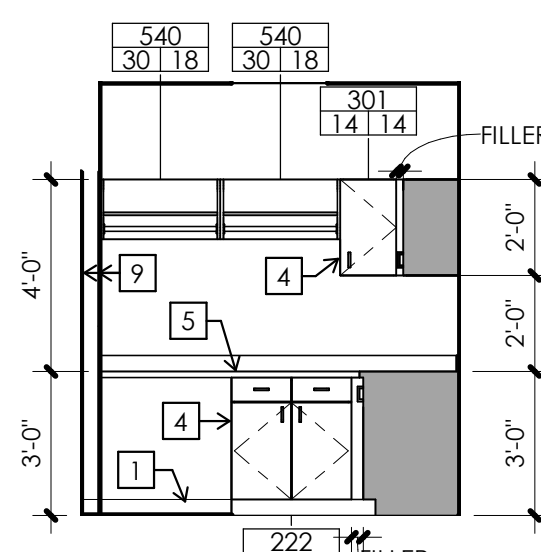


D5 TYP. BUNK
1/4" = 1'-0"

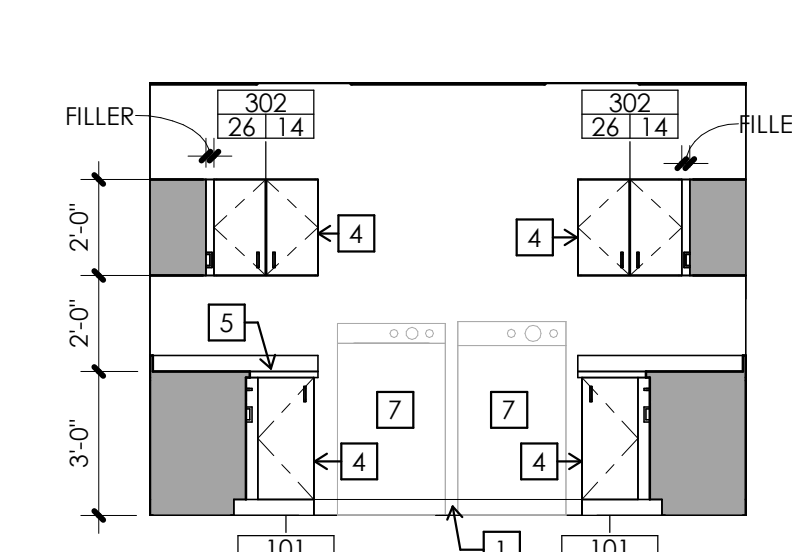


D4 TYPICAL BUNK
1/4" = 1'-0"

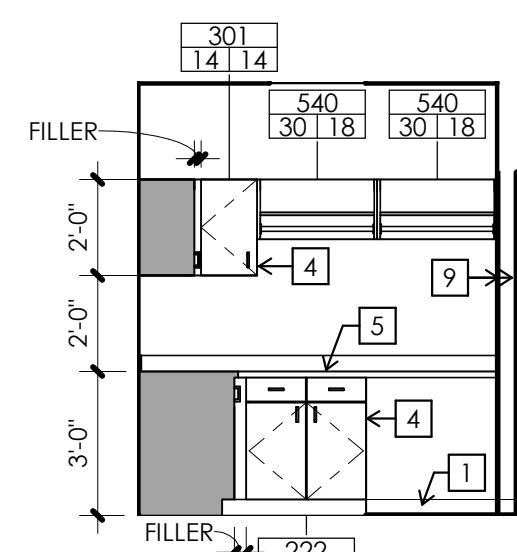
*TYP. FOR ALL BUNKS



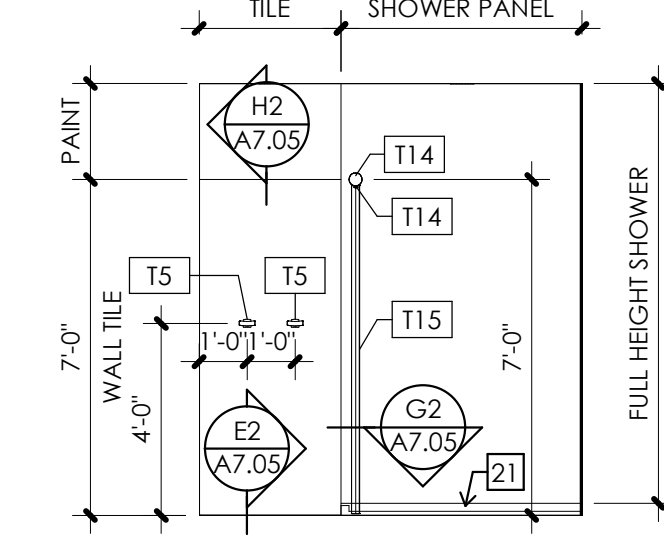
B10 PERSONNEL LAUNDRY
1/4" = 1'-0"



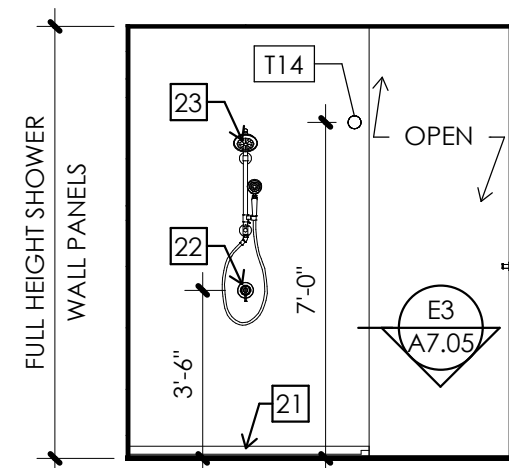
B9 PERSONNEL LAUNDRY
1/4" = 1'-0"



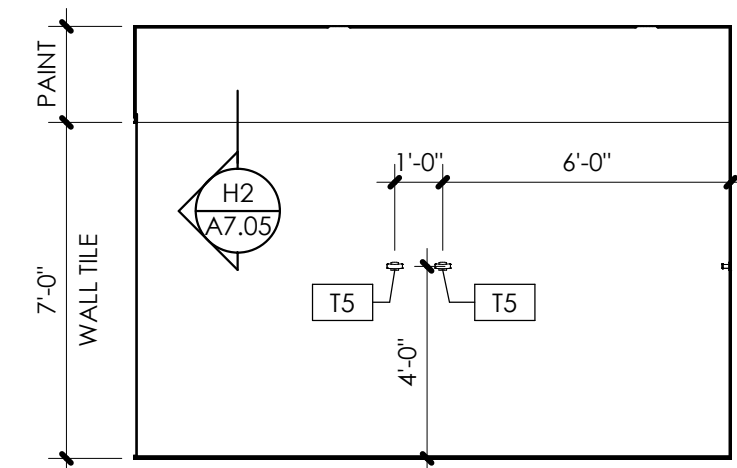
B7 PERSONNEL LAUNDRY
1/4" = 1'-0"



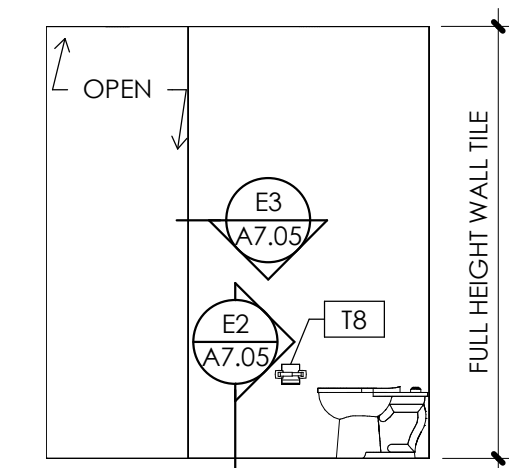
B5 TYP. SHOWER/ TOILET
1/4" = 1'-0"



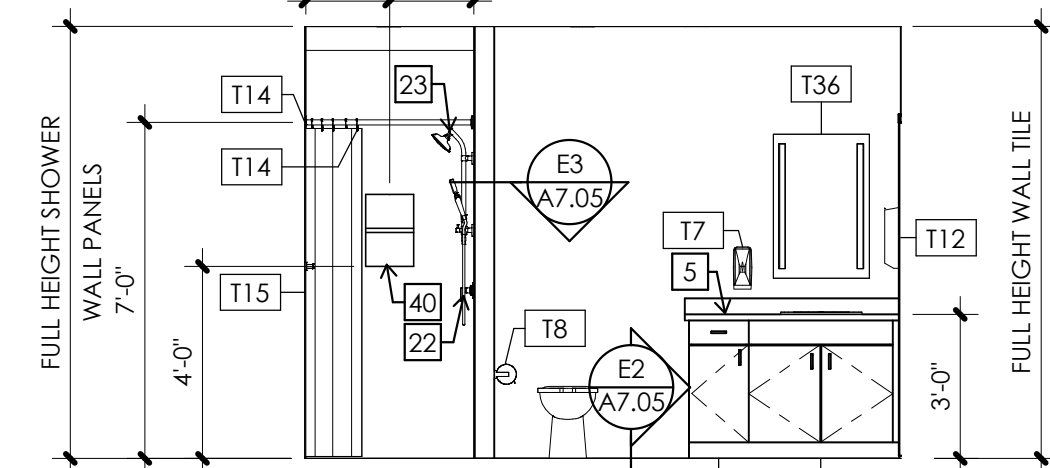
A12 TYP. SHOWER/ TOILET
1/4" = 1'-0"



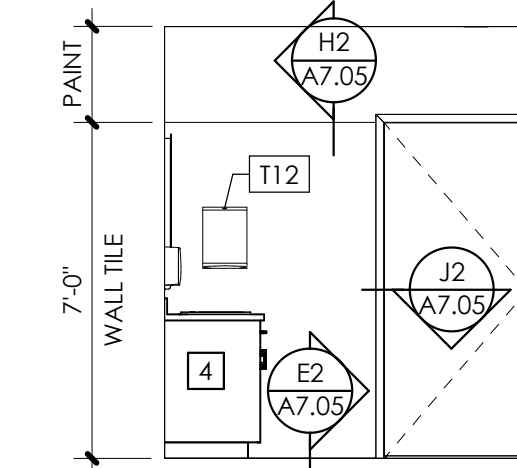
A10 TYP. SHOWER/ TOILET
1/4" = 1'-0"



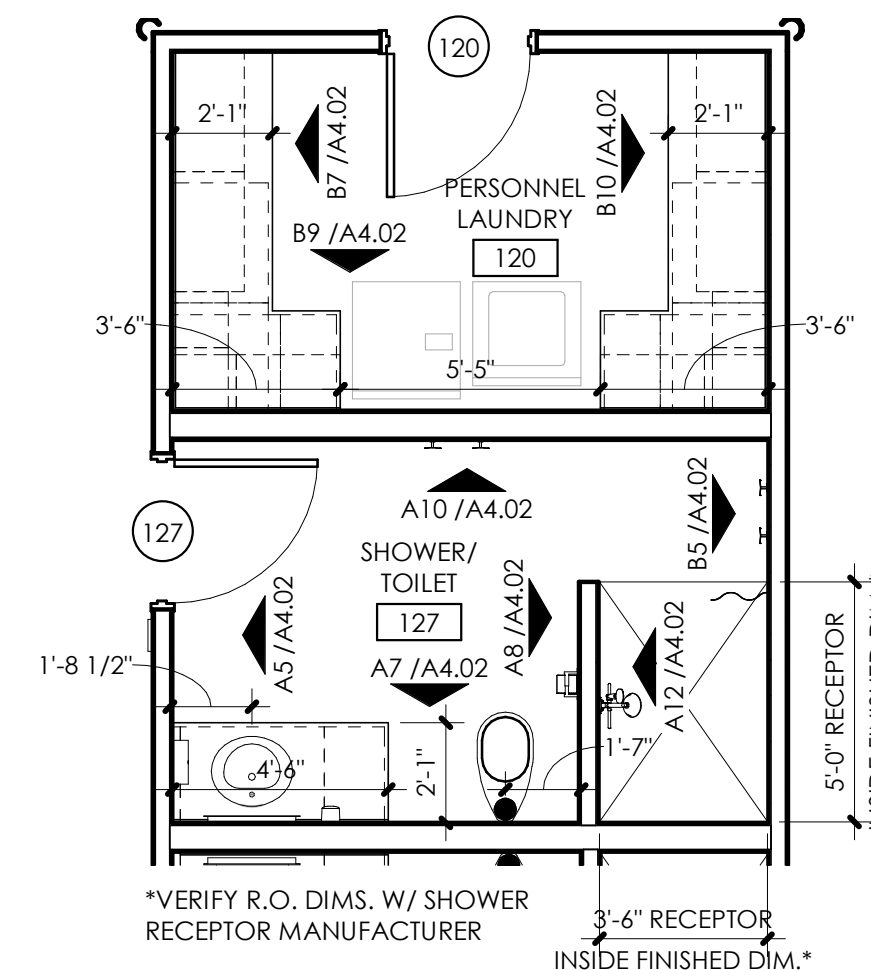
A8 TYP. SHOWER/ TOILET
1/4" = 1'-0"



A7 TYP. SHOWER/ TOILET
1/4" = 1'-0"



A5 TYP. SHOWER/ TOILET
1/4" = 1'-0"



A4 ENLARGED PLAN
1/4" = 1'-0"

*VERIFY R.O. DIMS. W/ SHOWER RECEPTOR MANUFACTURER
- SIM. FOR SHOWER/TOILET 117
- OFF. FOR SHOWER/TOILETS 118 & 128

GENERAL NOTES:

- FOR ITEMS LABELED [T] REFER TO SPEC SECTION 102800 - TOILET, BATH, AND LAUNDRY ACCESSORIES.
- FOR ITEMS LABELED [E] REFER TO FINISH SCHEDULE ON A7.01.
- ALL DIMENSIONS ON INTERIOR ELEVATIONS ARE FROM FINISHED SURFACES.
- OFCI = OWNER FURNISHED, OWNER INSTALLED.
- OFIC = OWNER FURNISHED, CONTRACTOR INSTALLED.
- REFER TO CASEWORK SCHEDULE ON A7.04 AND CASEWORK TAG. SEE BELOW.

- STANDARD AWI NUMBER
- CASEWORK DEPTH
- CASEWORK WIDTH

- "FILE" INDICATES DRAWER TO BE SIZED & OUTFITTED FOR HANGING FILES
- "L" INDICATES CABINET DOOR/DRAWER TO BE LOCKED

ELEVATION NOTES:

- WALL BASE PER FINISH SCHEDULE
- DECORATIVE LIGHT FIXTURE, RE: ELEC.
- MIRROR W/ INTEGRAL LED LIGHTING, RE: ELEC. & TOILET ACCESSORY SCHEDULE
- FINISHED END OF CASEWORK
- COUNTERTOP PER FINISH SCHEDULE
- QUARTZ SLAB BACKSPASH
- EQUIPMENT, RE: FFE PLAN
- STAINLESS STEEL WALL CLADDING TO EXTEND FROM FLOOR TO BOTTOM OF VENTHOOD
- FULL HEIGHT CORNER GUARD PER FINISH SCHEDULE
- WOOD TRIM
- IN-WALL BLOCKING FOR WALL MOUNTED MONITOR, RE: A3/A7.05; RE: ELEC. FOR PWR AND DATA RECS.
- STAINLESS STEEL WALL CLADDING AT MOP SINK
- GYP. BD. CONTROL JOINT
- ROOM SIGN, RE: SIGNAGE SCHEDULE
- PASS THRU LOCKERS W/ FILLER & ANGLE TRM AROUND WALL OPENING
- WOOD WALL CAP
- READING LIGHT, RE: ELEC.
- CEILING FAN, RE: ELEC.
- LOCKER, PER SPEC
- ROLLER SHADE, RE: SCHEDULE ON A7.04
- SOLID SURFACE SHOWER RECEPTOR, RE: SPEC SECTION 102116
- SHOWER CONTROLS, RE: PLUMBING DWGS
- SHOWERHEAD, RE: PLUMBING DWGS
- FRAMELESS MIRROR
- SURFACE MOUNTED LIGHT, RE: ELEC.
- PLUG MOLD, RE: ELEC.
- TYPE 304 STAINLESS STEEL ADJ. SHELVES; 16" D. X 48" W.; RE: SPEC SECTION 123553.13
- TYPE 304 STAINLESS STEEL TABLE W/ LOWER SHELF; 30" D. X 48" W.; RE: SPEC SECTION 123553.13
- FULL HEIGHT PRIVACY SHOWER PARTITION DOOR
- HEATER, RE: MEP DWGS.
- EXHAUST CAPTURE SYSTEM
- UNDER CABINET TASK LIGHTING
- RECESSED NIGHT LIGHT, RE: ELEC. DWGS.
- INSULATED PIPE WRAP COVER, RE: PLUMBING DWGS.
- COUNTERTOP SUPPORT BRACKET @ 32" O.C. MAX U.L.O.
- EMERGENCY EYE WASH STATION; RE: PLUMBING DWGS.
- WALL MOUNTED FAN; RE: ELEC. DWGS.
- WALL MOUNTED LAUNDRY TUB; RE: PLUMBING DWGS.
- BOTTLE FILL STATION; RE: PLUMBING DWGS.
- RECESSED SOLID SURFACE SHELF, RE: SPEC SECTION 066100; COORDINATE W/ WALL FRAMING W/ MANUFACTURER'S INSTRUCTIONS
- BUILT HEADBOARD, TYPICAL IN SINGLE BUNK ROOMS



Kansas Certificate of Authority #A-516
CIVIL ENGINEER
KAW Valley Engineering
KS Certificate of Authority #29241
1627 Sunflower Lane
Salina, KS 67401
785-823-3400

Structural Engineer
Bob D. Campbell & Co.
KS Certificate of Authority #000442
4338 Bellview
Kansas City, MO 64111
816-778-7149

MEP Engineer
PKMR Engineers, Inc.
KS Certificate of Authority #E-2002020886
13300 W. 98th St.
Lenexa, KS 66215
913-492-2400

JOB NUMBER 22003

SALINA FIRE STATION #4

EAST CRAWFORD STREET
& MARKLEY ROAD
SALINA, KS 67401
CITY OF SALINA
725 Minnesota Ave., Suite 662 Kansas City, Kansas 66101 Tel. 816.300.4101 Fax 816.300.4102



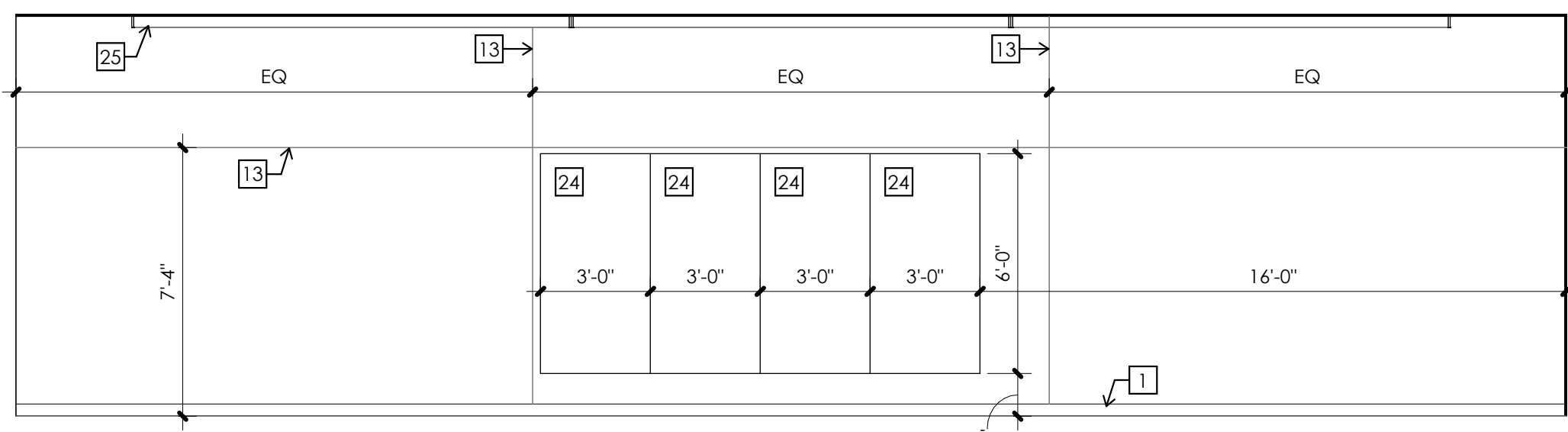
Douglas Boe - Architect
KS # 8101

ISSUE DATE 09/09/2024
No. Description Date

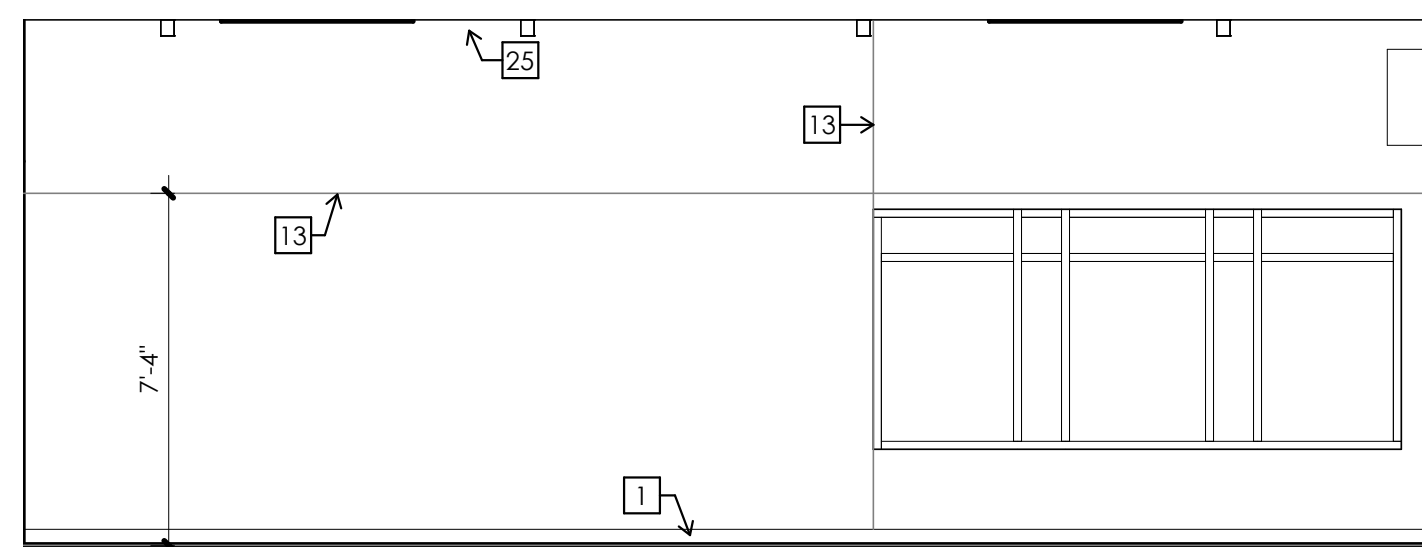
WSKF, Inc. © 2024

INTERIOR ELEVATIONS

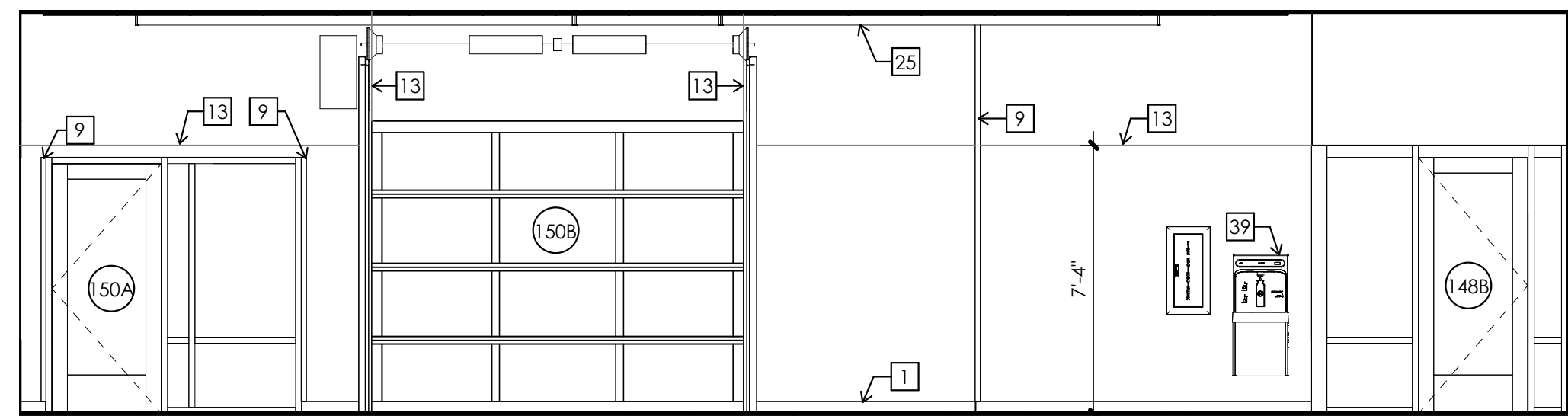
A4.02



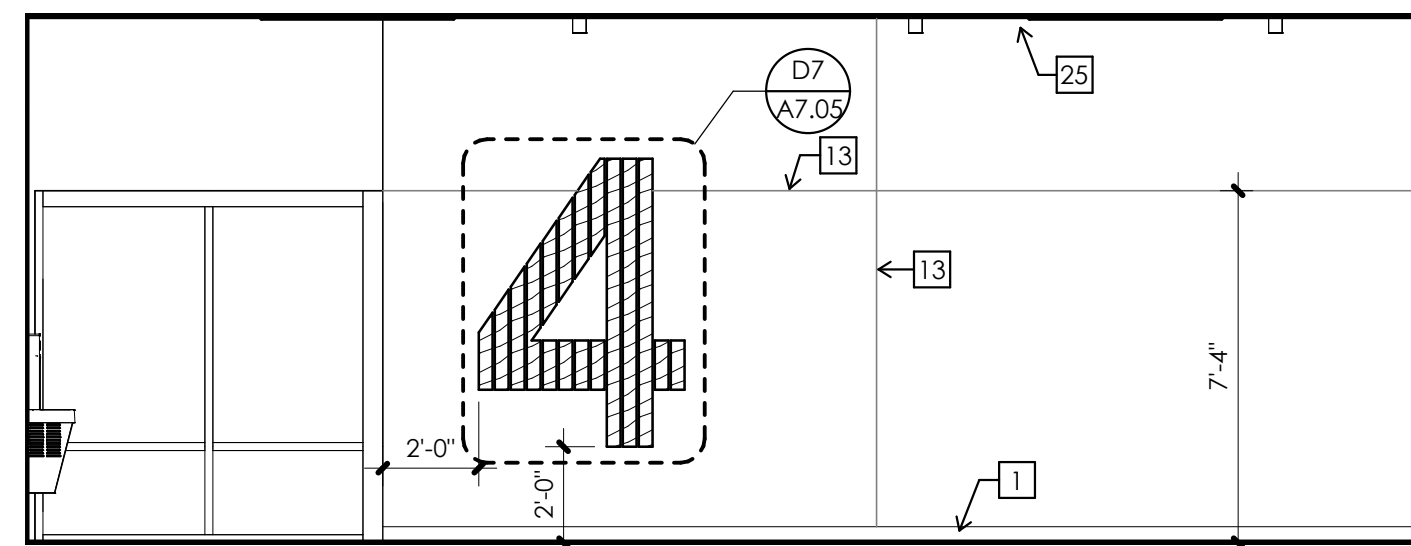
J10 FITNESS
1/4" = 1'-0"



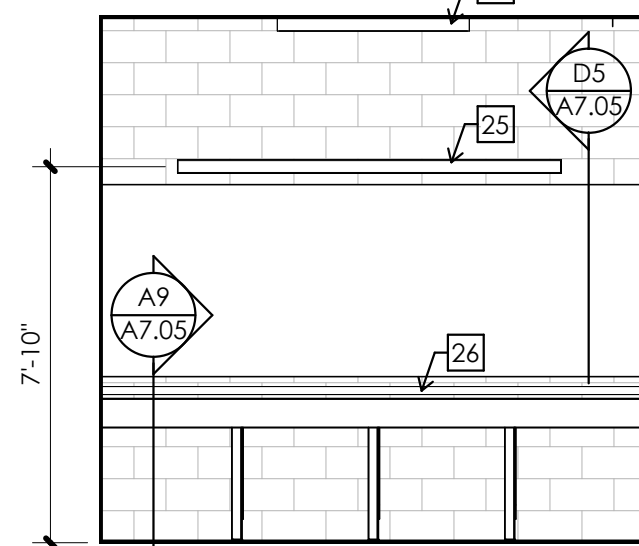
J6 FITNESS
1/4" = 1'-0"



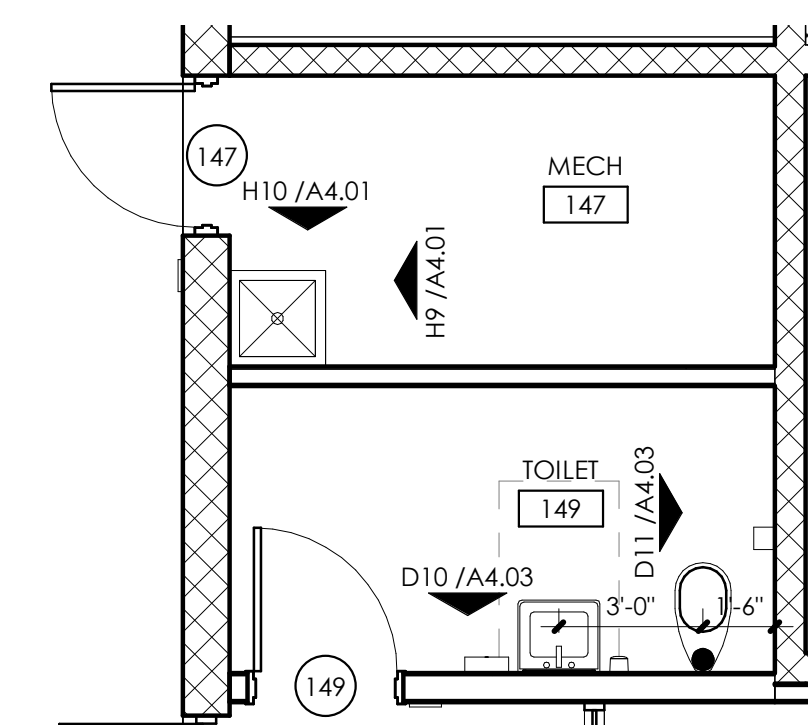
G12 FITNESS
1/4" = 1'-0"



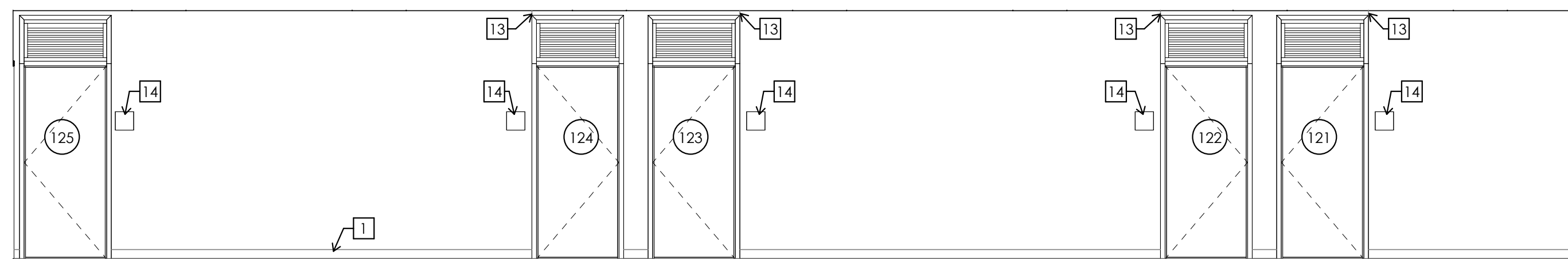
G8 FITNESS
1/4" = 1'-0"



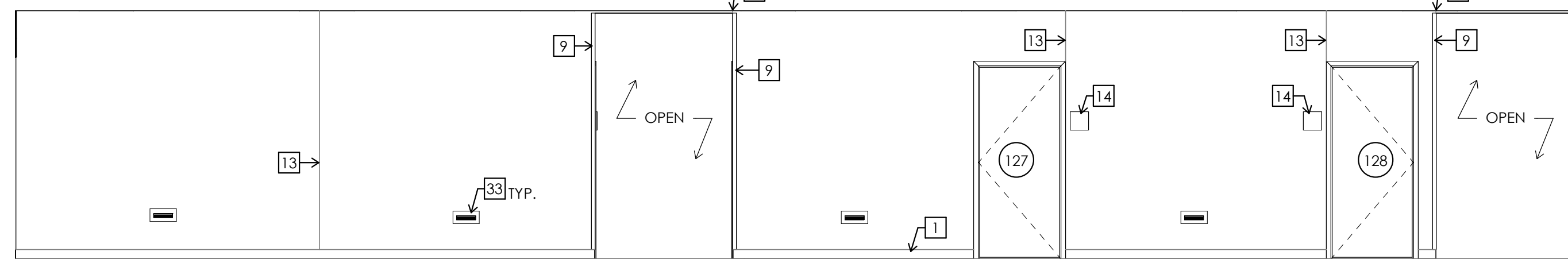
G5 WORKSHOP/STORAGE
1/4" = 1'-0"



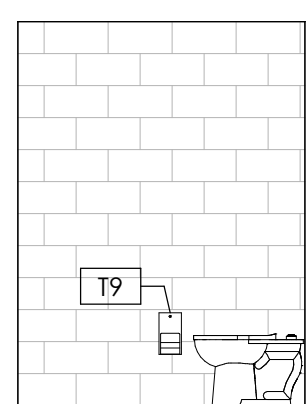
G4 BAY TOILET PLAN
1/4" = 1'-0"



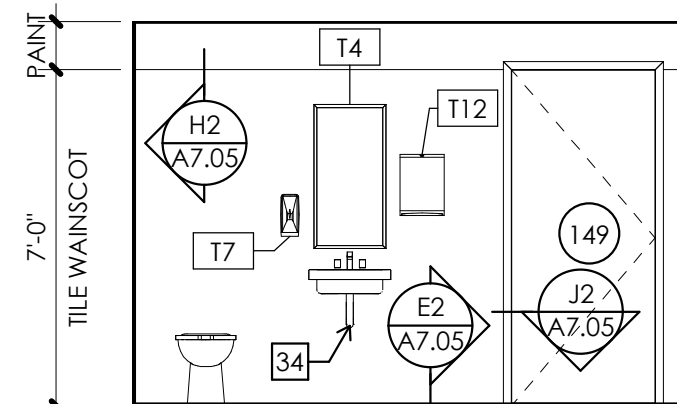
E11 WEST BUNK CORRIDOR
1/4" = 1'-0"



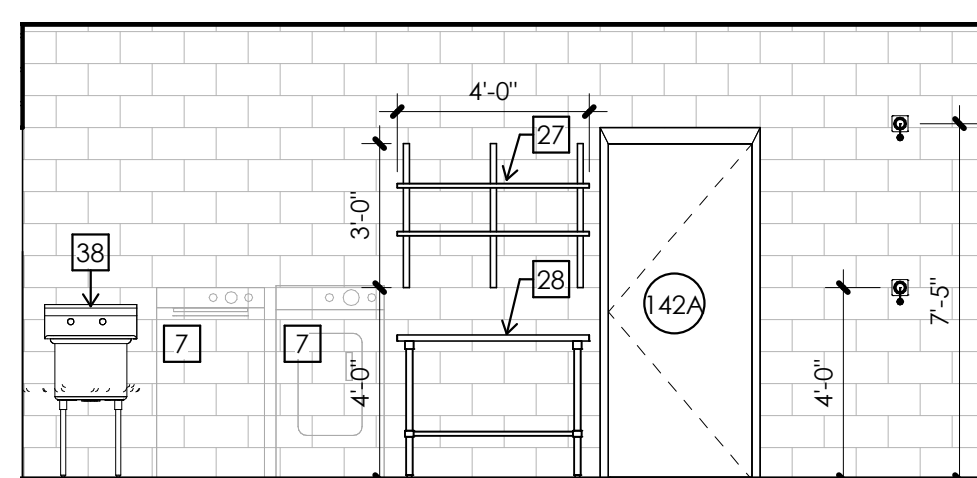
E7 WEST BUNK CORRIDOR
1/4" = 1'-0"



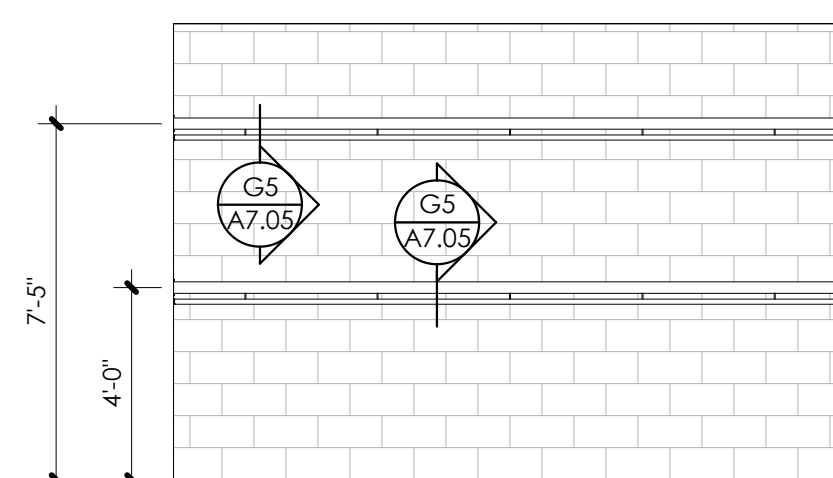
D11 APP BAY TLT
1/4" = 1'-0"



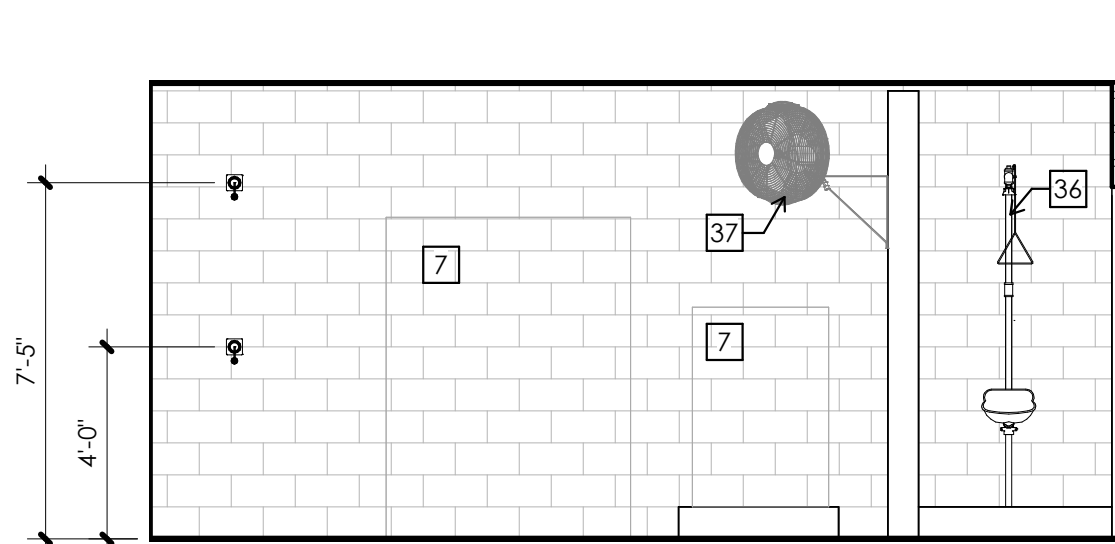
D10 APP BAY TLT
1/4" = 1'-0"



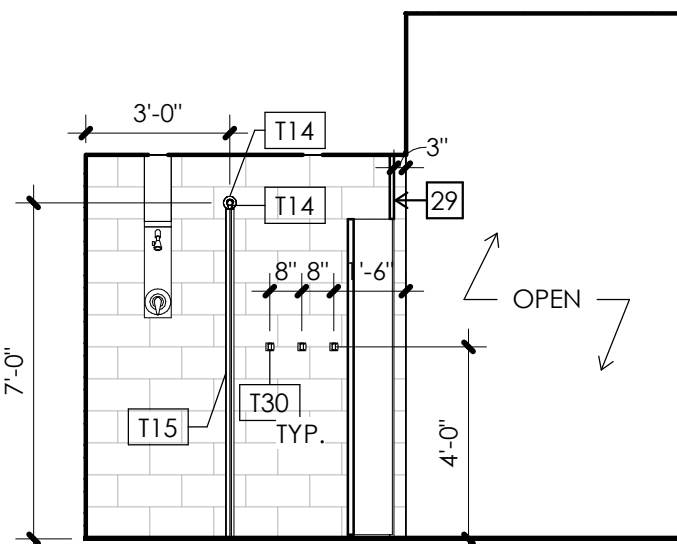
D8 GEAR WASH./DECON
1/4" = 1'-0"



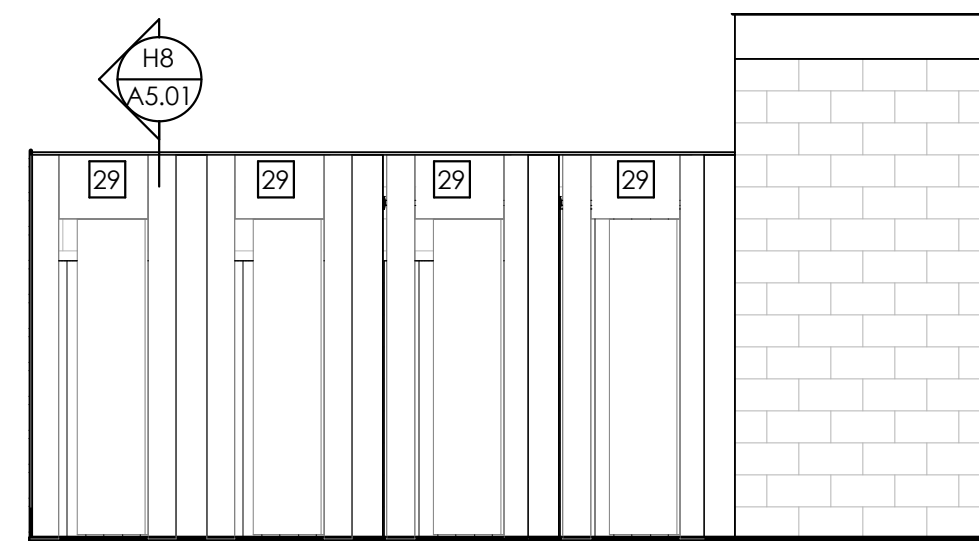
D6 GEAR WASH./DECON
1/4" = 1'-0"



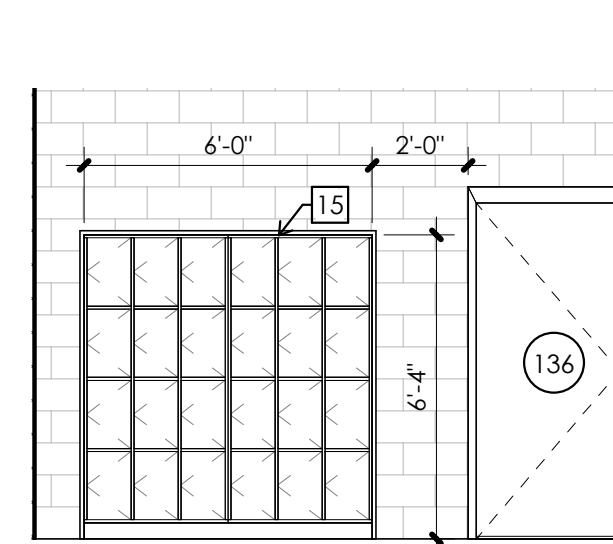
B12 GEAR WASH./DECON
1/4" = 1'-0"



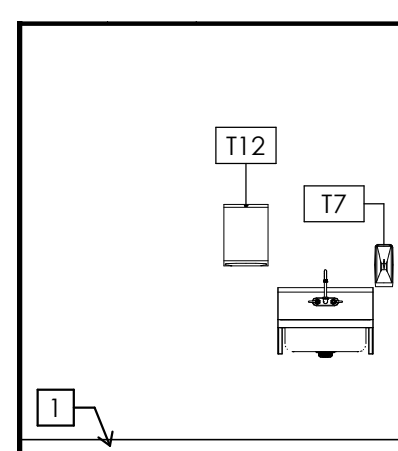
B10 DECON SHOWERS
1/4" = 1'-0"



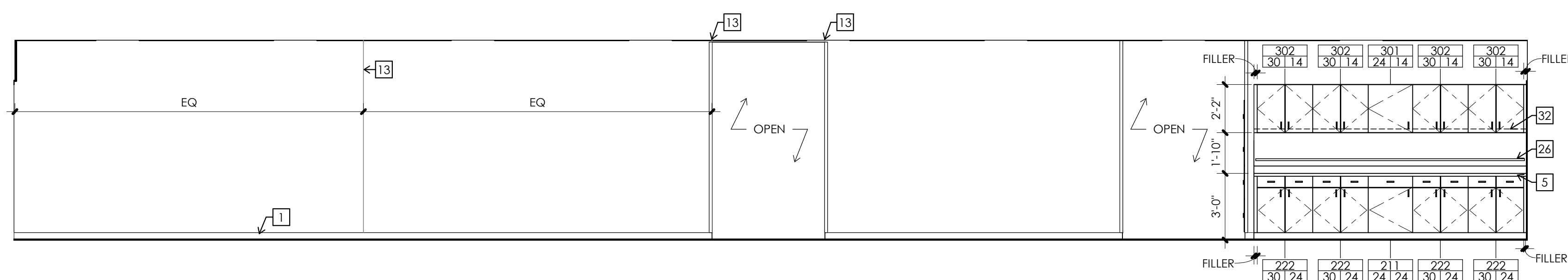
B8 DECON SHOWERS
1/4" = 1'-0"



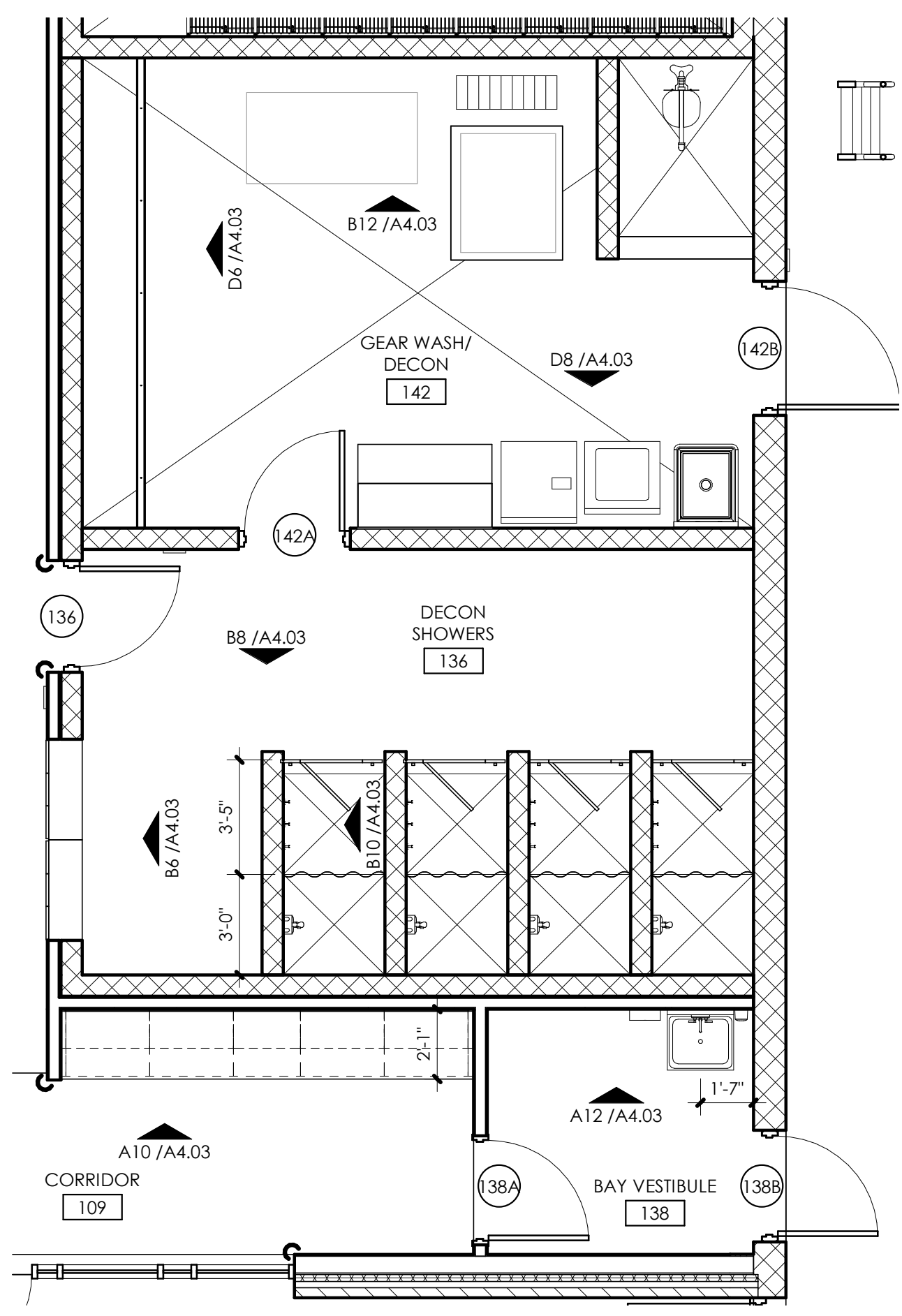
B6 DECON SHOWERS
1/4" = 1'-0"



A12 TYP. BAY VESTIBULE
1/4" = 1'-0"



A10 RADIO/CORRIDOR
1/4" = 1'-0"



A5 ENLARGED PLAN - DECON
1/4" = 1'-0"

GENERAL NOTES:

- FOR ITEMS LABELED [] REFER TO SPEC SECTION 102800 - TOILET, BATH, AND LAUNDRY ACCESSORIES.
- FOR ITEMS LABELED [] REFER TO FINISH SCHEDULE ON A7.01.
- ALL DIMENSIONS ON INTERIOR ELEVATIONS ARE FROM FINISHED SURFACES.
- OFOI = OWNER FURNISHED, OWNER INSTALLED.
- OFCI = OWNER FURNISHED, CONTRACTOR INSTALLED.
- REFER TO CASEWORK SCHEDULE ON A7.04 AND CASEWORK TAG, SEE BELOW.
- STANDARD AWI NUMBER
- CASEWORK DEPTH
- CASEWORK WIDTH
- "FILE" INDICATES DRAWER TO BE SIZED & OUTFITTED FOR HANGING FILES
- "L" INDICATES CABINET DOOR/DRAWER TO BE LOCKED

ELEVATION NOTES:

- WALL BASE PER FINISH SCHEDULE
- DECORATIVE LIGHT FIXTURE, RE: ELEC.
- MIRROR W/ INTEGRAL LED LIGHTING, RE: ELEC. & TOILET ACCESSORY SCHEDULE
- FINISHED END OF CASEWORK
- COUNTERTOP PER FINISH SCHEDULE
- QUARTZ SLAB BACKSPASH
- EQUIPMENT, RE: FFE PLAN
- STAINLESS STEEL WALL CLADDING TO EXTEND FROM FLOOR TO BOTTOM OF VENTHOOD
- FULL HEIGHT CORNER GUARD PER FINISH SCHEDULE
- WOOD TRIM
- IN-WALL BLOCKING FOR WALL MOUNTED MONITOR, RE: A3/A7.05; RE: ELEC. FOR PWR AND DATA REQS.
- STAINLESS STEEL WALL CLADDING AT MOP SINK
- GYP. BD. CONTROL JOINT
- ROOM SIGN, RE: SIGNAGE SCHEDULE
- PASS THRU LOCKERS W/ FILLER & ANGLE TRM AROUND WALL OPENING
- WOOD WALL CAP
- READING LIGHT, RE: ELEC.
- CEILING FAN, RE: ELEC.
- LOCKER, PER SPEC
- ROLLER SHADE, RE: SCHEDULE ON A7.04
- SOLID SURFACE SHOWER RECEPTOR, RE: SPEC SECTION 102116
- SHOWER CONTROLS, RE: PLUMBING DWGS
- SHOWERHEAD, RE: PLUMBING DWGS
- FRAMELESS MIRROR
- SURFACE MOUNTED LIGHT, RE: ELEC
- PLUG MOLD, RE: ELEC
- TYPE 304 STAINLESS STEEL ADJ. SHELVES: 16" D. X 48" W.; RE: SPEC SECTION 123553.13
- TYPE 304 STAINLESS STEEL TABLE W/ LOWER SHELF: 30" D. X 48" W.; RE: SPEC SECTION 123553.13
- FULL HEIGHT PRIVACY SHOWER PARTITION DOOR
- HEATER, RE: MEP DWGS.
- EXHAUST CAPTURE SYSTEM
- UNDER CABINET TASK LIGHTING
- RECESSED NIGHT LIGHT, RE: ELEC. DWGS.
- INSULATED PIPE WRAP COVER, RE: PLUMBING DWGS.
- COUNTERTOP SUPPORT BRACKET @ 32" O.C. MAX U.N.O.
- EMERGENCY EYE WASH STATION; RE: PLUMBING DWGS.
- WALL MOUNTED FAN; RE: ELEC. DWGS.
- WALL MOUNTED LAUNDRY TUB; RE: PLUMBING DWGS.
- BOTTLE FILL STATION; RE: PLUMBING DWGS.
- RECESSED SOLID SURFACE SHELF, RE: SPEC SECTION 066100; COORDINATE IN-WALL FRAMING W/ MANUFACTURER'S INSTRUCTIONS
- BUILT HEADBOARD, TYPICAL IN SINGLE BUNK ROOMS



Kansas Certificate of Authority #A-516

CIVIL ENGINEER
KAW Valley Engineering
KS Certificate of Authority #29241
1627 Sunflower Lane
Salina, KS 67401
785-823-3400

Structural Engineer
Bob D. Campbell & Co.
KS Certificate of Authority #000442
4338 Bellview
Kansas City, MO 64111
816-778-7149

MEP Engineer
PKMR Engineers, Inc.
KS Certificate of Authority #E-2002020886
13300 W. 98th St.
Lenexa, KS 66215
913-492-2400

JOB NUMBER 22003

SALINA FIRE STATION #4
EAST CRAWFORD STREET
& MARKLEY ROAD
SALINA, KS 67401
CITY OF SALINA
755 Minnesota Ave., Suite 662 Kansas City, Kansas 66101 Tel. 816.300.4101 Fax 816.300.4102



Douglas Boe - Architect
KS # 8101

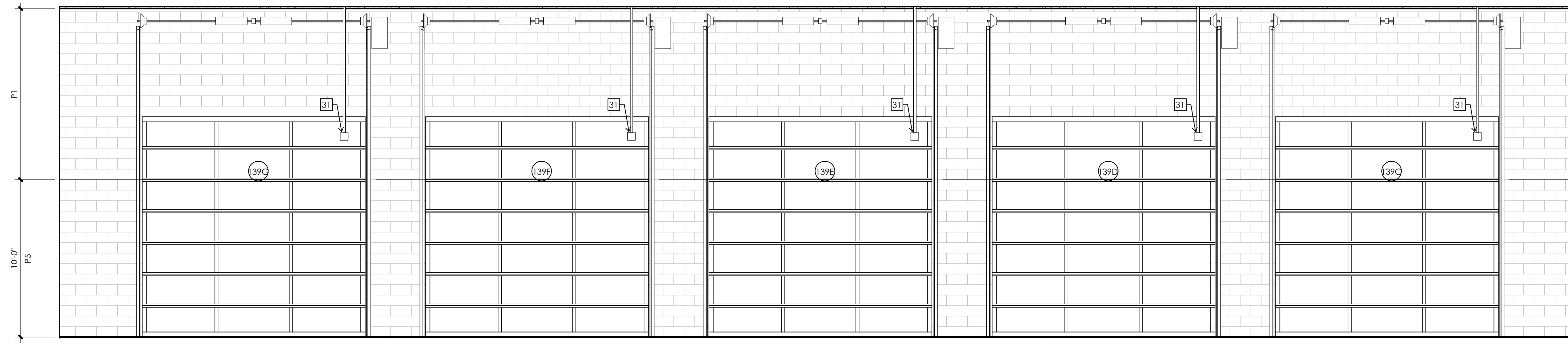
ISSUE DATE 09/09/2024
No. Description Date

WSKF, Inc. © 2024

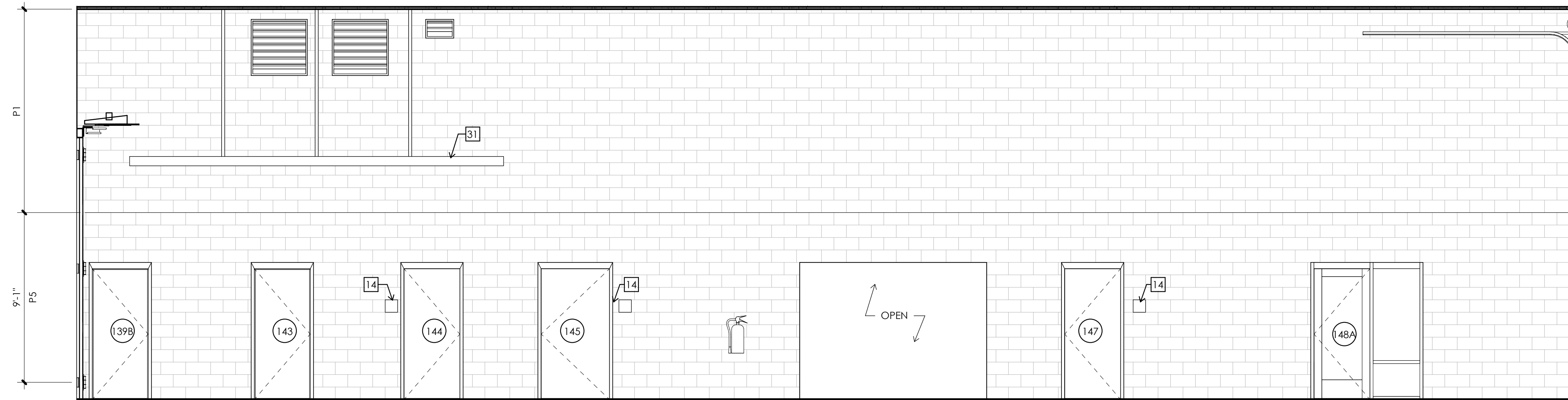
INTERIOR ELEVATIONS

A4.03

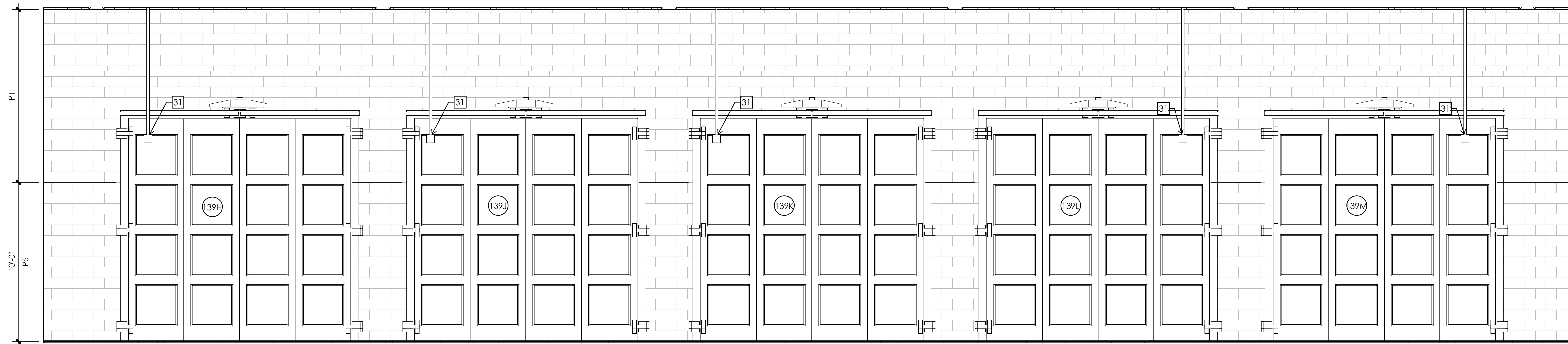
K
J
H
G
F
E
D
C
B
A



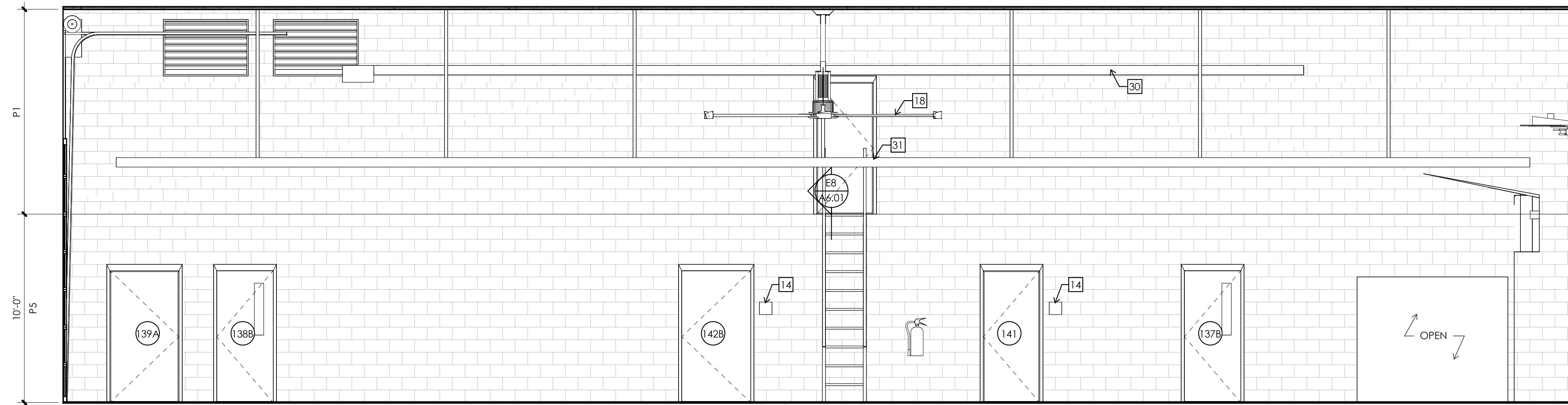
H10 APPARATUS BAY
1/4" = 1'-0"



E8 APPARATUS BAY
1/4" = 1'-0"



C10 APPARATUS BAY
1/4" = 1'-0"



A8 APPARATUS BAY
1/4" = 1'-0"

GENERAL NOTES:

- FOR ITEMS LABELED [T] REFER TO SPEC SECTION 102800 - TOILET, BATH, AND LAUNDRY ACCESSORIES.
- FOR ITEMS LABELED [F] REFER TO FINISH SCHEDULE ON A7.01.
- ALL DIMENSIONS ON INTERIOR ELEVATIONS ARE FROM FINISHED SURFACES.
- OFCI = OWNER FURNISHED, OWNER INSTALLED.
- OFCI = OWNER FURNISHED, CONTRACTOR INSTALLED.
- REFER TO CASEWORK SCHEDULE ON A7.04 AND CASEWORK TAG, SEE BELOW.

- STANDARD AWI NUMBER
- CASEWORK DEPTH
- CASEWORK WIDTH

- "FILE" INDICATES DRAWER TO BE SIZED & OUTFITTED FOR HANGING FILES
- "L" INDICATES CABINET DOOR/DRAWER TO BE LOCKED

ELEVATION NOTES:

- WALL BASE PER FINISH SCHEDULE
- DECORATIVE LIGHT FIXTURE, RE: ELEC.
- MIRROR W/ INTEGRAL LED LIGHTING, RE: ELEC. & TOILET ACCESSORY SCHEDULE
- FINISHED END OF CASEWORK
- COUNTERTOP PER FINISH SCHEDULE
- QUARTZ SLAB BACKSPLASH
- EQUIPMENT, RE: FFE PLAN
- STAINLESS STEEL WALL CLADDING TO EXTEND FROM FLOOR TO BOTTOM OF VENTHOOD
- FULL HEIGHT CORNER GUARD PER FINISH SCHEDULE
- WOOD TRIM
- IN-WALL BLOCKING FOR WALL MOUNTED MONITOR, RE: A3/A7.05; RE: ELEC. FOR PWR AND DATA REGS.
- STAINLESS STEEL WALL CLADDING AT MOP SINK
- GYP. BD. CONTROL JOINT
- ROOM SIGN, RE: SIGNAGE SCHEDULE
- PASS THRU LOCKERS W/ FILLER & ANGLE TRIM AROUND WALL OPENING
- WOOD WALL CAP
- READING LIGHT, RE: ELEC.
- CEILING FAN, RE: ELEC.
- LOCKER, PER SPEC
- ROLLER SHADE, RE: SCHEDULE ON A7.04
- SOLID SURFACE SHOWER RECEPTOR, RE: SPEC SECTION 102116
- SHOWER CONTROLS, RE: PLUMBING DWGS
- SHOWERHEAD, RE: PLUMBING DWGS
- FRAMELESS MIRROR
- SURFACE MOUNTED LIGHT, RE: ELEC
- PLUG MOLD, RE: ELEC
- TYPE 304 STAINLESS STEEL ADJ. SHELVES; 16" D. X 48" W.; RE: SPEC SECTION 123553.13
- TYPE 304 STAINLESS STEEL TABLE W/ LOWER SHELF; 30" D. X 48" W.; RE: SPEC SECTION 123553.13
- FULL HEIGHT PRIVACY SHOWER PARTITION DOOR
- HEATER, RE: MEP DWGS.
- EXHAUST CAPTURE SYSTEM
- UNDER CABINET TASK LIGHTING
- RECESSED NIGHT LIGHT, RE: ELEC. DWGS.
- INSULATED PIPE WRAP COVER; RE: PLUMBING DWGS.
- COUNTERTOP SUPPORT BRACKET @ 32" O.C. MAX U.N.O.
- EMERGENCY EYE WASH STATION; RE: PLUMBING DWGS.
- WALL MOUNTED FAN; RE: ELEC. DWGS.
- WALL MOUNTED LAUNDRY TUB; RE: PLUMBING DWGS.
- BOTTLE FILL STATION; RE: PLUMBING DWGS.
- RECESSED SOLID SURFACE SHELF, RE: SPEC SECTION 066100; COORDINATE IN-WALL FRAMING W/ MANUFACTURER'S INSTRUCTIONS
- BUILT HEADBOARD, TYPICAL IN SINGLE BUNK ROOMS



Kansas Certificate of Authority #A-516
CIVIL ENGINEER
KAW Valley Engineering
KS Certificate of Authority #29241
1627 Sunflower Lane
Salina, KS 67401
785-823-3400

Structural Engineer
Bob D. Campbell & Co.
KS Certificate of Authority #000442
4338 Bellview
Kansas City, MO 64111
816-778-7149

MEP Engineer
PKMR Engineers, Inc.
KS Certificate of Authority #E-202020886
13300 W. 98th St.
Lenexa, KS 66215
913-492-2400

JOB NUMBER 22003

SALINA FIRE STATION #4

EAST CRAWFORD STREET
& MARKLEY ROAD
SALINA, KS 67401
CITY OF SALINA

755 Minnesota Ave., Suite 662 Kansas City, Kansas 66101 Tel: 816.300.4101 Fax: 816.300.4102



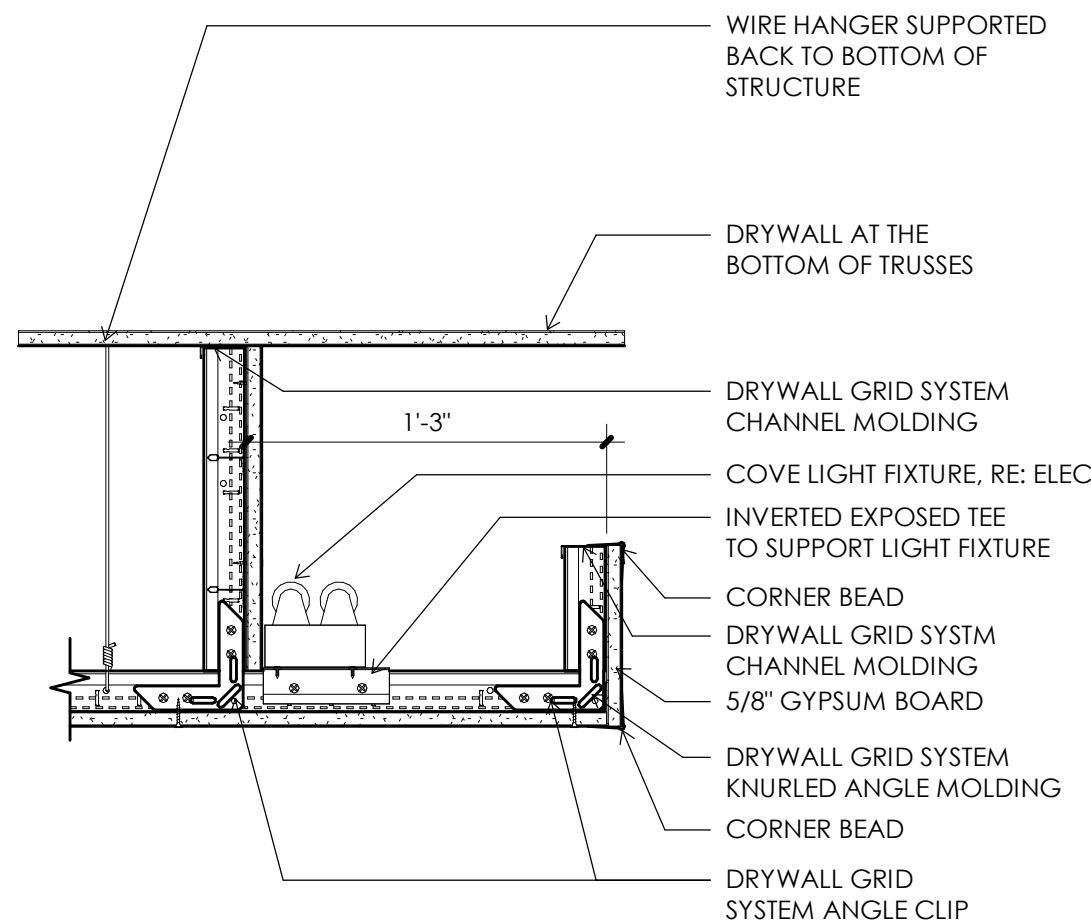
Douglas Boe - Architect
KS # 8101

ISSUE DATE 09/09/2024
No. Description Date

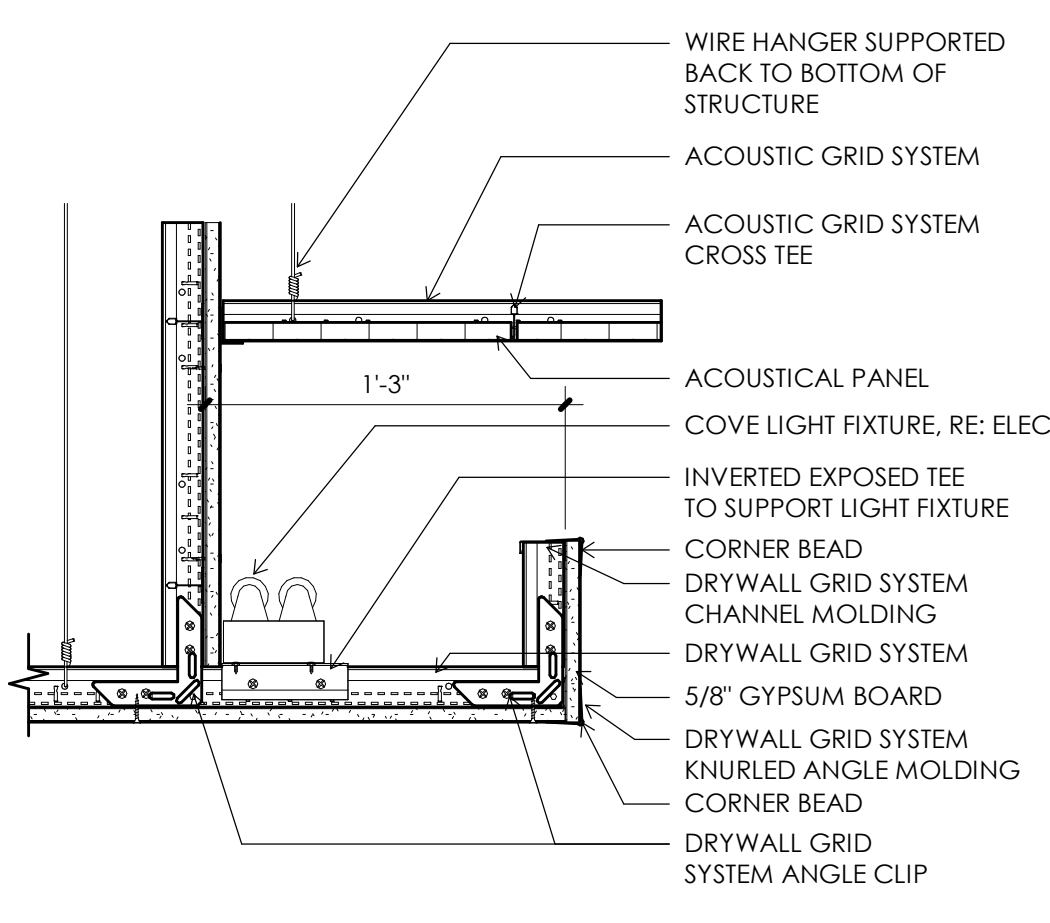
WSKF, Inc. © 2024

INTERIOR ELEVATIONS

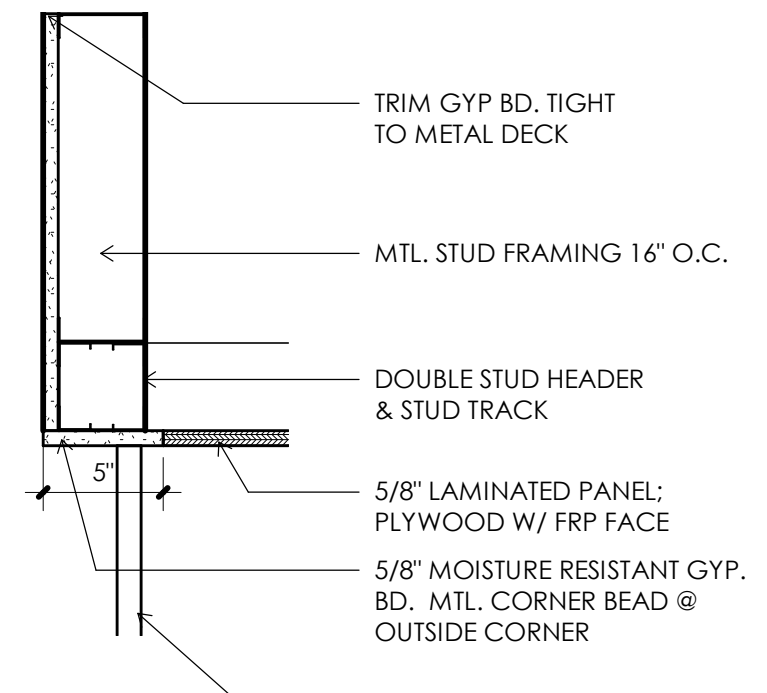
A4.04



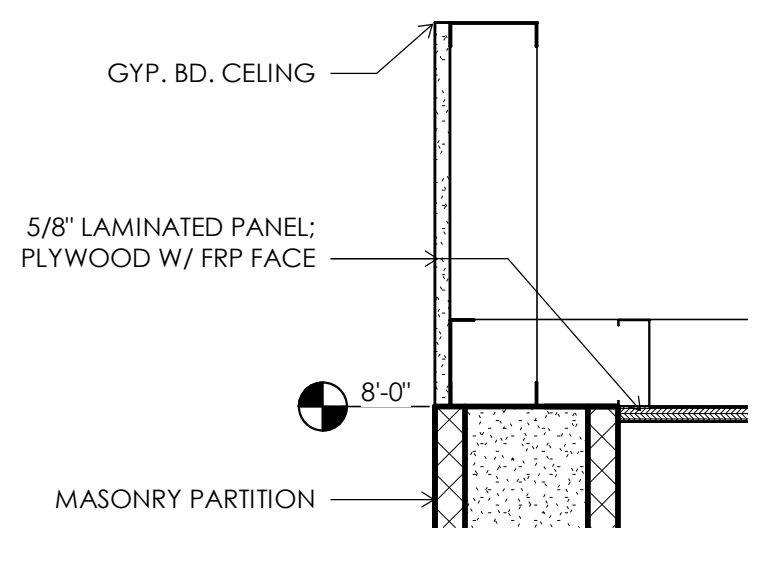
H12 SOFFIT DETAIL
1 1/2" = 1'-0"



H10 SOFFIT DETAIL
1 1/2" = 1'-0"



H8 SHOWER DOOR HEAD
1 1/2" = 1'-0"



H6 DECON SHOWER CEILING
1 1/2" = 1'-0"

GENERAL NOTES:

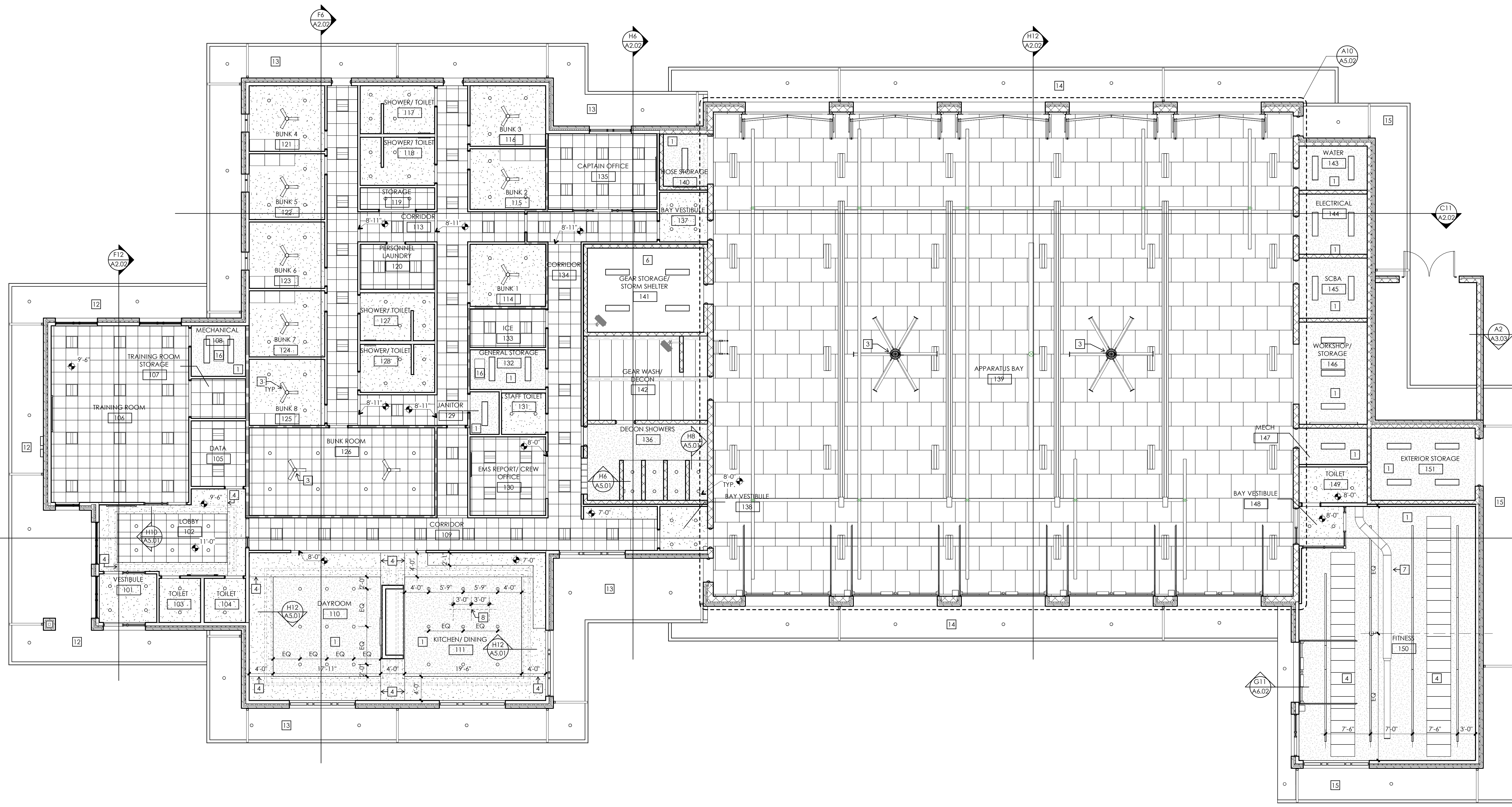
- ALL ACOUSTICAL CEILING TILES AND GRID TO BE INSTALLED @ 9'-0" A.F.F., U.N.O.
- ALL GYP. BD. CEILINGS TO BE INSTALLED @ 9'-0" A.F.F., U.N.O.
- RUN FRAMING FOR SOFFIT UP TO STRUCTURE W/ KICKERS @ 24" O.C., U.N.O.
- REFER TO ELECTRICAL FOR LIGHT FIXTURE TYPES AND NOTES
- REFER TO MECHANICAL FOR SUPPLY AND RETURN REGISTER LOCATIONS.
- PROVIDE ACCESS PANEL(S) TO MEP EQUIPMENT (VALVES, VAV FILTERS, ETC.) AS NEEDED. SIZE PANEL AS NEEDED FOR ACCESS AND CONFIRM FINAL LOCATION WITH ARCHITECT.
- PROVIDE (2) ACCESS PANELS, 20" X 40", THROUGH RATED WALL IN ATTIC. COORDINATE FINAL LOCATION WITH ARCHITECT PRIOR TO INSTALLATION.

RCP NOTES:

- 1 CEILING TO BE EXPOSED GYP. BD. INSTALLED AT BOTTOM OF STRUCTURE. FINISH PER SPECIFICATIONS. PAINT PER FINISH SCHEDULE.
- 2 SURFACE MOUNTED DECORATIVE LIGHT FIXTURE; RE: MEP
- 3 CEILING FAN; RE: MEP
- 4 GYP. BD. CONTROL JOINT
- 5 ACOUSTIC PANELS, ACT4
- 6 EXPOSED CONCRETE TO REMAIN UNFINISHED
- 7 EXPOSED DUCT, PAINT TO MATCH CEILING
- 8 CENTER ON ISLAND
- 9 LED LIGHT FIXTURE
- 10 RADIANT HEATER
- 11 DIRECT CAPTURE SYSTEM
- 12 PREFINISHED METAL SOFFIT PANEL W/ VENTILATION TO PROVIDE 450 SQ. IN. OF VENTILATION
- 13 PREFINISHED METAL SOFFIT PANEL W/ VENTILATION TO PROVIDE 1,100 SQ. IN. OF VENTILATION
- 14 PREFINISHED METAL SOFFIT PANEL W/ VENTILATION TO PROVIDE 500 SQ. IN. OF VENTILATION
- 15 PREFINISHED METAL SOFFIT PANEL W/ VENTILATION TO PROVIDE 500 SQ. IN. OF VENTILATION
- 16 ATTIC ACCESS LOCATION, 20" X 40". CONTRACTOR TO COORDINATE LOCATION W/ TRUSS LAYOUT FOR EXACT LOCATION

LEGEND:

- PAINTED GYP. BD CEILING PER FINISH LEGEND
- ACOUSTIC CEILING GRID & TILE PER FINISH LEGEND
- 48" X 48" X 1.5" TECTUM PANELS, WHITE, BEVELED EDGES; DIRECT ATTACHED TO STRUCTURE PERPENDICULAR. COORDINATE INSTALL REQUIREMENTS OF TECTUM W/ SPACING OF TRUSSES.



A12 REFLECTED CEILING PLAN
1/8" = 1'-0"

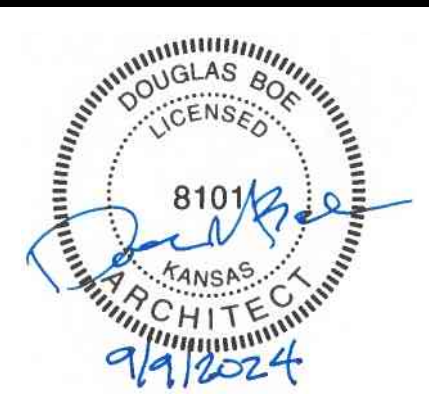


Kansas Certificate of Authority #A-516
CIVIL ENGINEER
KAW Valley Engineering
KS Certificate of Authority #29241
1627 Sunflower Lane
Salina, KS 67401
785-823-3400

Structural Engineer
Bob D. Campbell & Co.
KS Certificate of Authority #000442
4338 Bellvue
Kansas City, MO 64111
816-778-7149
MEP Engineer
PKMR Engineers, Inc.
KS Certificate of Authority #E-2002020886
13300 W. 98th St.
Lenexa, KS 66215
913-492-2400

JOB NUMBER 22003

SALINA FIRE STATION #4
EAST CRAWFORD STREET
& MARKLEY ROAD
SALINA, KS 67401
CITY OF SALINA
756 Minnesota Ave., Suite 662 Kansas City, Kansas 66101 Tel. 816.300.4101 Fax 816.300.4102



Douglas Boe - Architect
KS # 8101
ISSUE DATE 09/09/2024
No. Description Date

WSKF, Inc. © 2024

REFLECTED CEILING PLAN

A5.01



Kansas Certificate of Authority #A-516

CIVIL ENGINEER
KAW Valley Engineering
KS Certificate of Authority #29241
1627 Sunflower Lane
Salina, KS 67401
785-823-3400

Structural Engineer
Bob D. Campbell & Co.
KS Certificate of Authority
#000442
4338 Bellview
Kansas City, MO 64111
816-778-7149

MEP Engineer
PKMR Engineers, Inc.
KS Certificate of Authority
#E-2002020886
13300 W. 98th St.
Lenexa, KS 66215
913-492-2400

JOB NUMBER 22003

SALINA FIRE STATION #4

EAST CRAWFORD STREET
& MARKLEY ROAD
SALINA, KS 67401
CITY OF SALINA
755 Minnesota Ave., Suite 662 Kansas City, Kansas 66101 Tel. 816.300.4101 Fax 816.300.4102



Douglas Boe - Architect
KS # 8101

ISSUE DATE 09/09/2024
No. Description Date

WSKF, Inc. © 2024

APP BAY
REFLECTED
CEILING PLAN

A5.02

GENERAL NOTES:

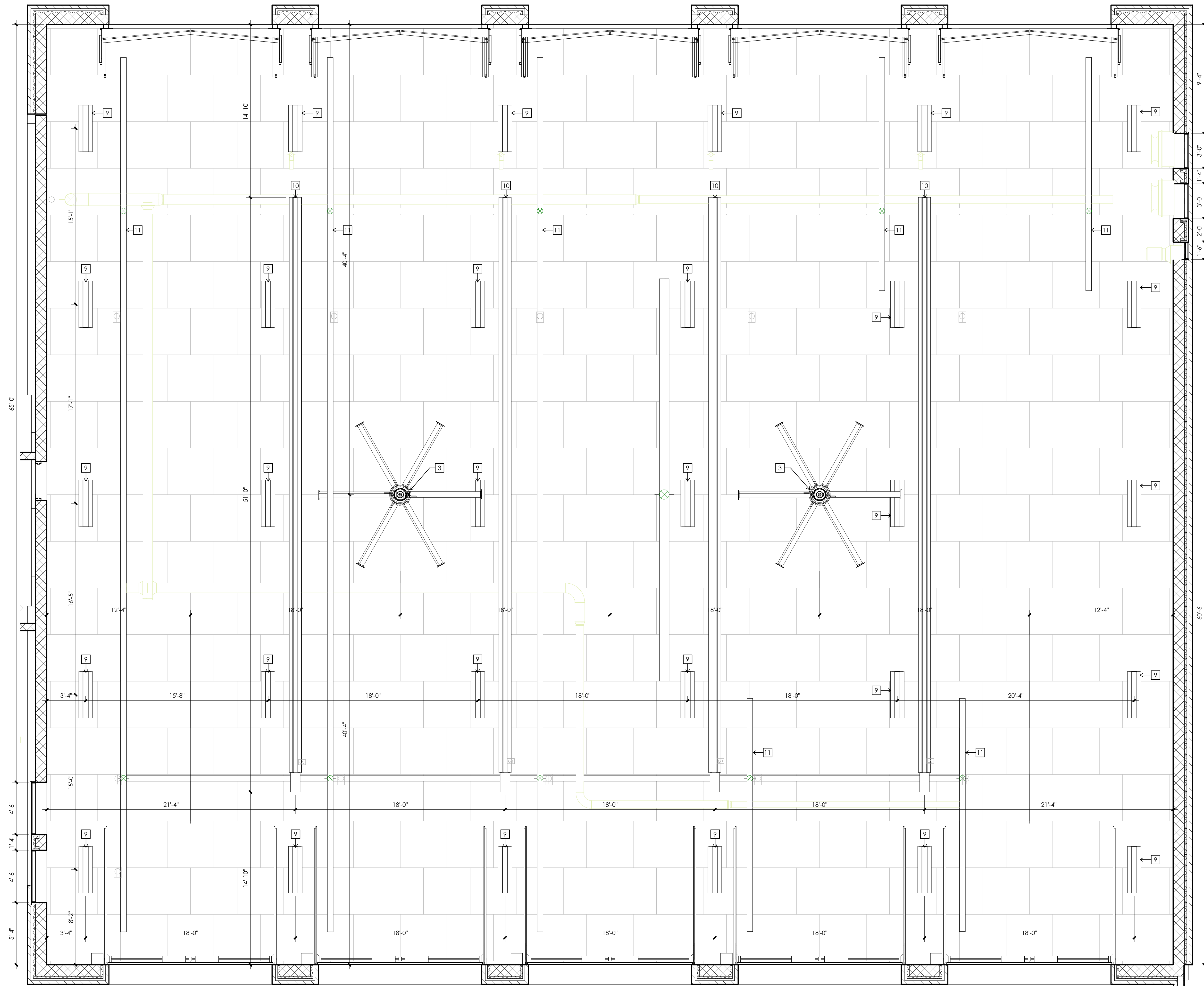
- ALL ACOUSTICAL CEILING TILES AND GRID TO BE INSTALLED @ 9'-0" A.F.F., U.N.O.
- ALL GYP. BD. CEILINGS TO BE INSTALLED @ 9'-0" A.F.F., U.N.O.
- RUN FRAMING FOR SOFFIT UP TO STRUCTURE W/ KICKERS @ 24" O.C., U.N.O.
- REFER TO ELECTRICAL FOR LIGHT FIXTURE TYPES AND NOTES
- REFER TO MECHANICAL FOR SUPPLY AND RETURN REGISTER LOCATIONS.
- PROVIDE ACCESS PANEL(S) TO MEP EQUIPMENT (VALVES, VAV FILTERS, ETC.) AS NEEDED. SIZE PANEL AS NEEDED FOR ACCESS AND CONFIRM FINAL LOCATION WITH ARCHITECT.
- PROVIDE (2) ACCESS PANELS, 20" X 40", THROUGH RATED WALL IN ATTIC. COORDINATE FINAL LOCATION WITH ARCHITECT PRIOR TO INSTALLATION.

RCP NOTES:

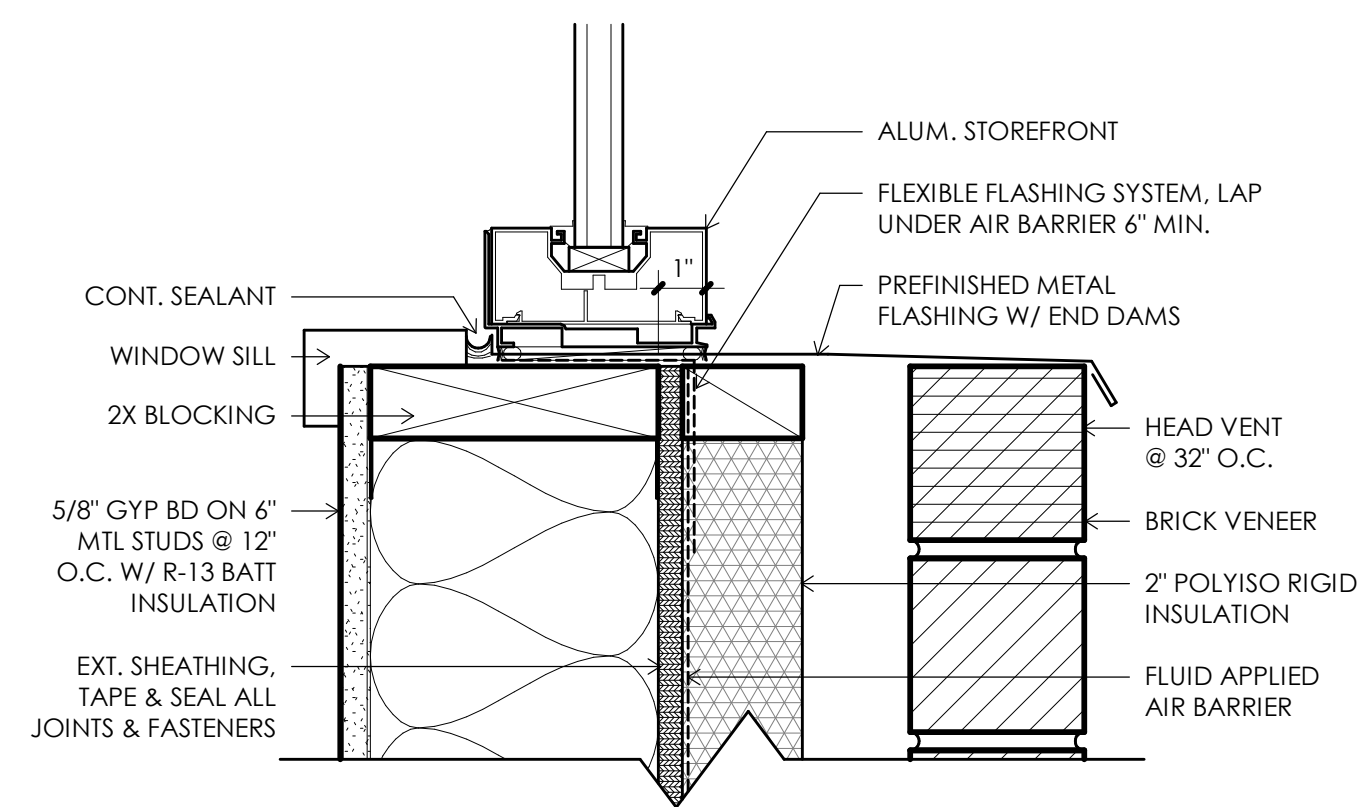
- 1 CEILING TO BE EXPOSED GYP. BD. INSTALLED AT BOTTOM OF STRUCTURE. FINISH PER SPECIFICATIONS. PAINT PER FINISH SCHEDULE.
- 2 SURFACE MOUNTED DECORATIVE LIGHT FIXTURE; RE: MEP
- 3 CEILING FAN; RE: MEP
- 4 GYP. BD. CONTROL JOINT
- 5 ACOUSTIC PANELS, ACT4
- 6 EXPOSED CONCRETE TO REMAIN UNFINISHED
- 7 EXPOSED DUCT. PAINT TO MATCH CEILING
- 8 CENTER ON ISLAND
- 9 LED LIGHT FIXTURE
- 10 RADIANT HEATER
- 11 DIRECT CAPTURE SYSTEM
- 12 PREFINISHED METAL SOFFIT PANEL W/ VENTILATION TO PROVIDE 450 SQ. IN. OF VENTILATION
- 13 PREFINISHED METAL SOFFIT PANEL W/ VENTILATION TO PROVIDE 400 SQ. IN. OF VENTILATION
- 14 PREFINISHED METAL SOFFIT PANEL W/ VENTILATION TO PROVIDE 1,100 SQ. IN. OF VENTILATION
- 15 PREFINISHED METAL SOFFIT PANEL W/ VENTILATION TO PROVIDE 500 SQ. IN. OF VENTILATION
- 16 ATTIC ACCESS LOCATION, 20" X 40". CONTRACTOR TO COORDINATE LOCATION W/ TRUSS LAYOUT FOR EXACT LOCATION

LEGEND:

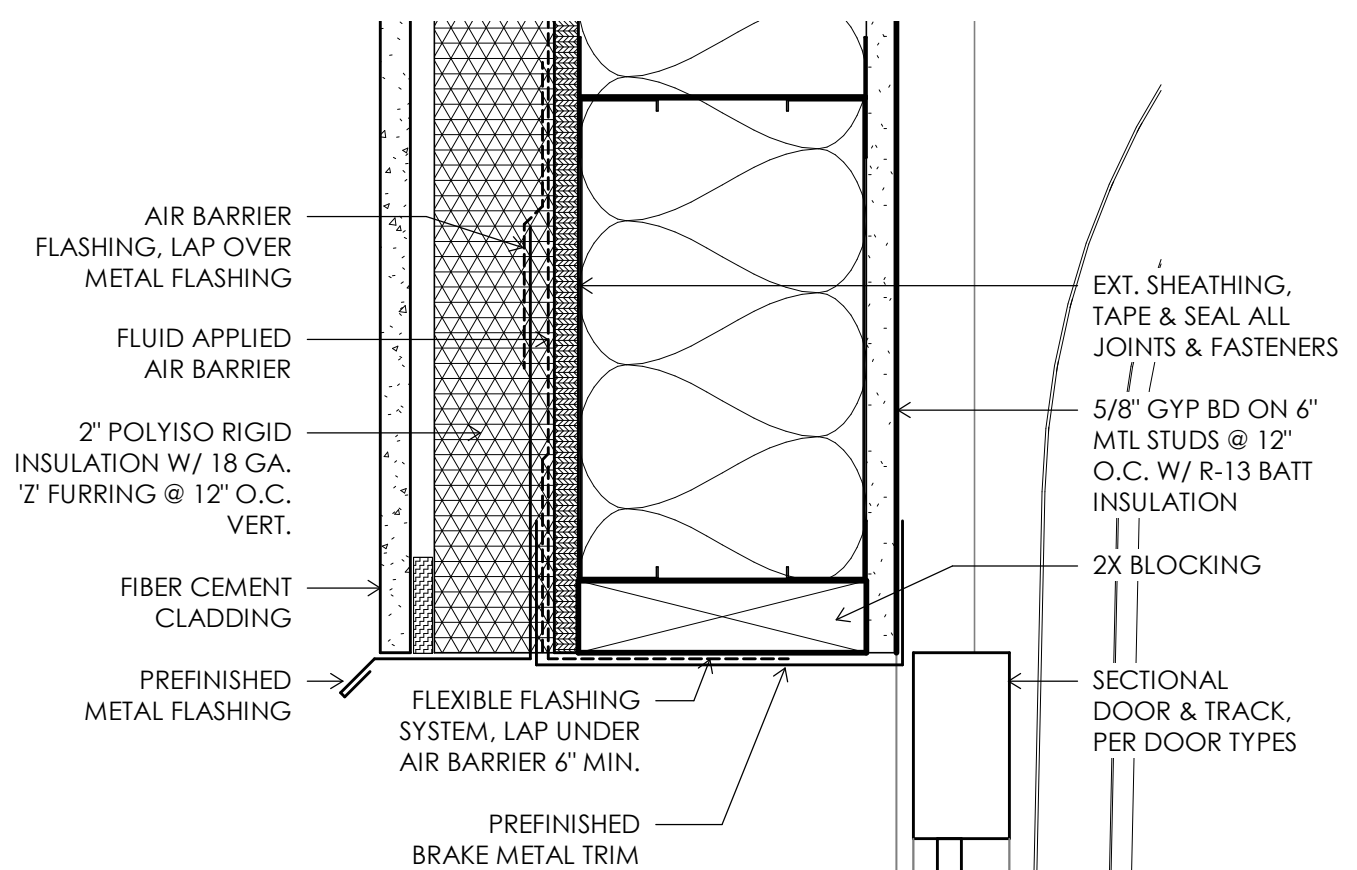
- PAINTED GYP. BD CEILING PER FINISH LEGEND
- ACOUSTIC CEILING GRID & TILE PER FINISH LEGEND
- 48" X 48" X 1.5" TECTUM PANELS, WHITE, BEVELED EDGES; DIRECT ATTACHED TO STRUCTURE PERPENDICULAR. COORDINATE INSTALL REQUIREMENTS OF TECTUM W/ SPACING OF TRUSSES.



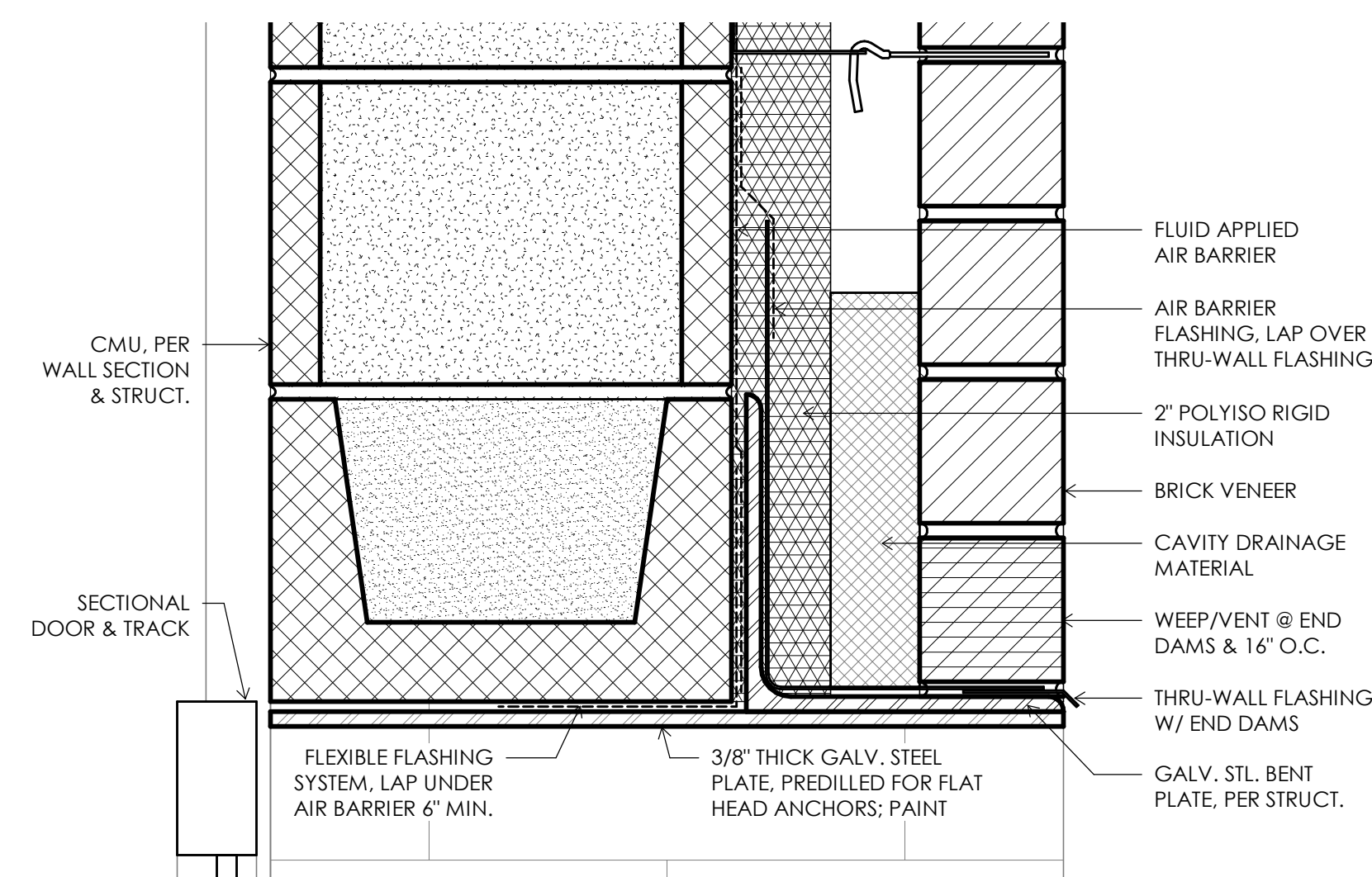
A10 APP BAY ENLARGED RCP
1/4" = 1'-0"



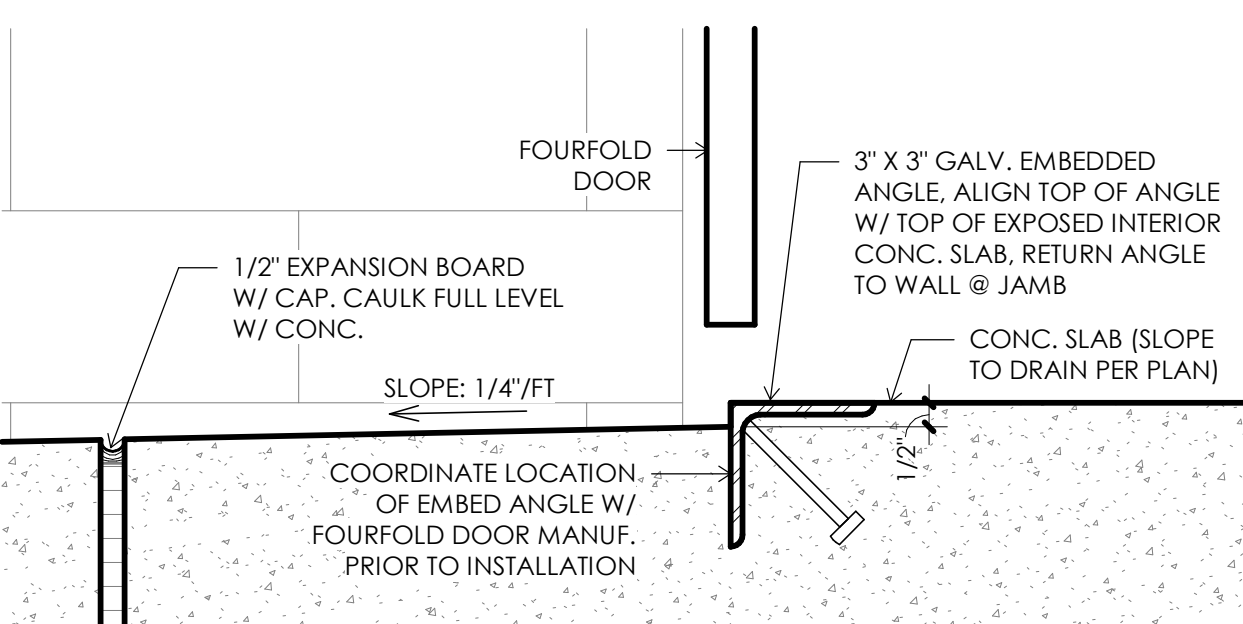
J11 SILL DETAIL
3\"/>



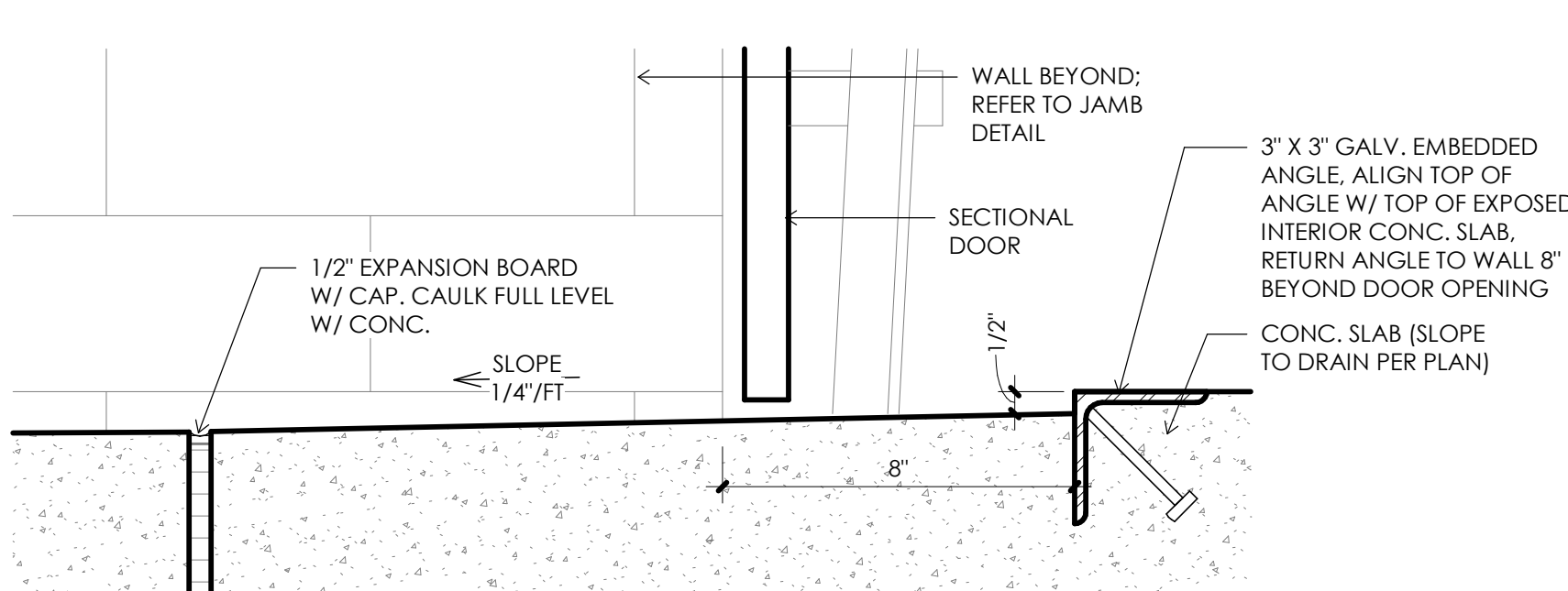
G11 HEAD DETAIL
3\"/>



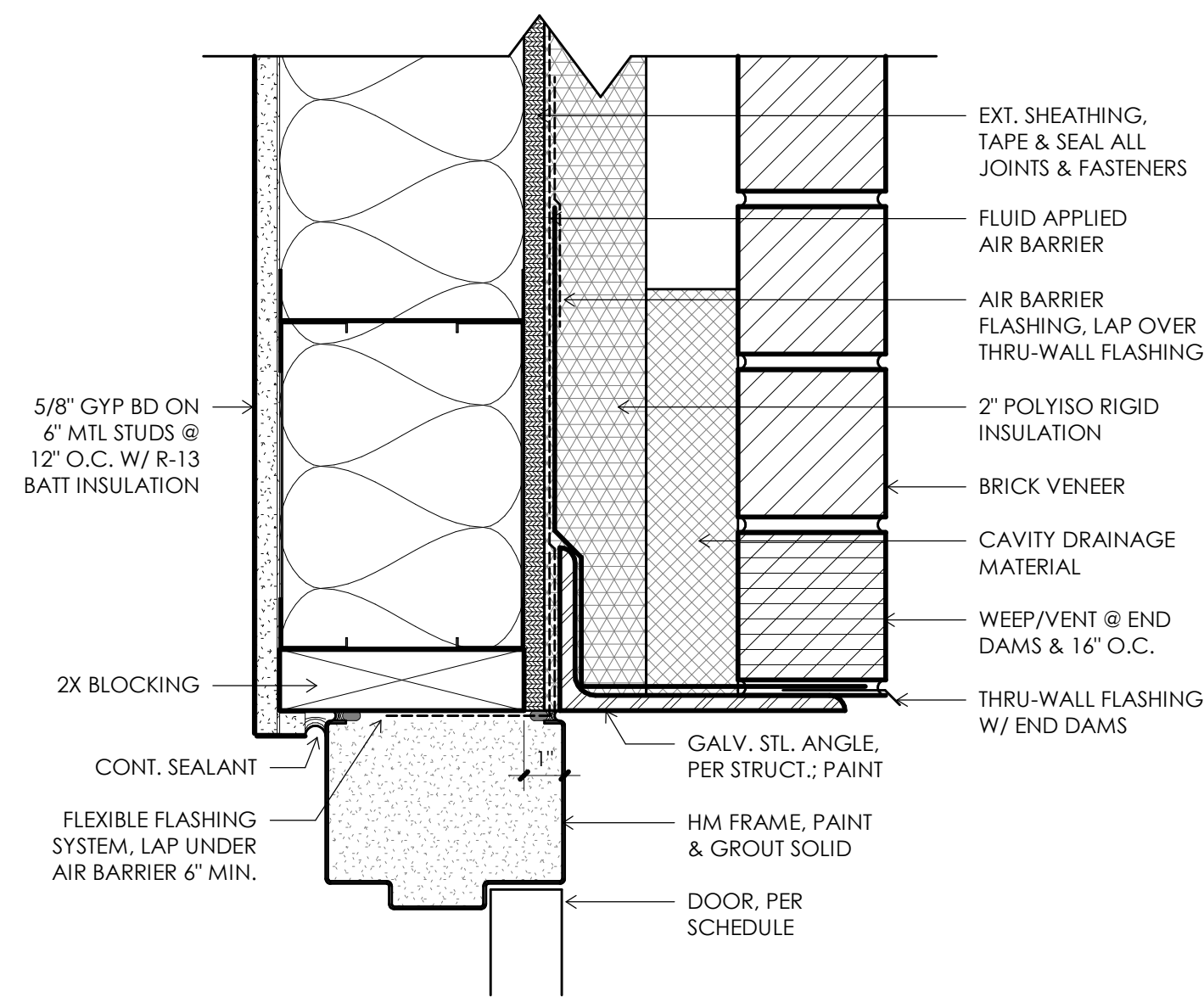
E11 HEAD DETAIL
3\"/>



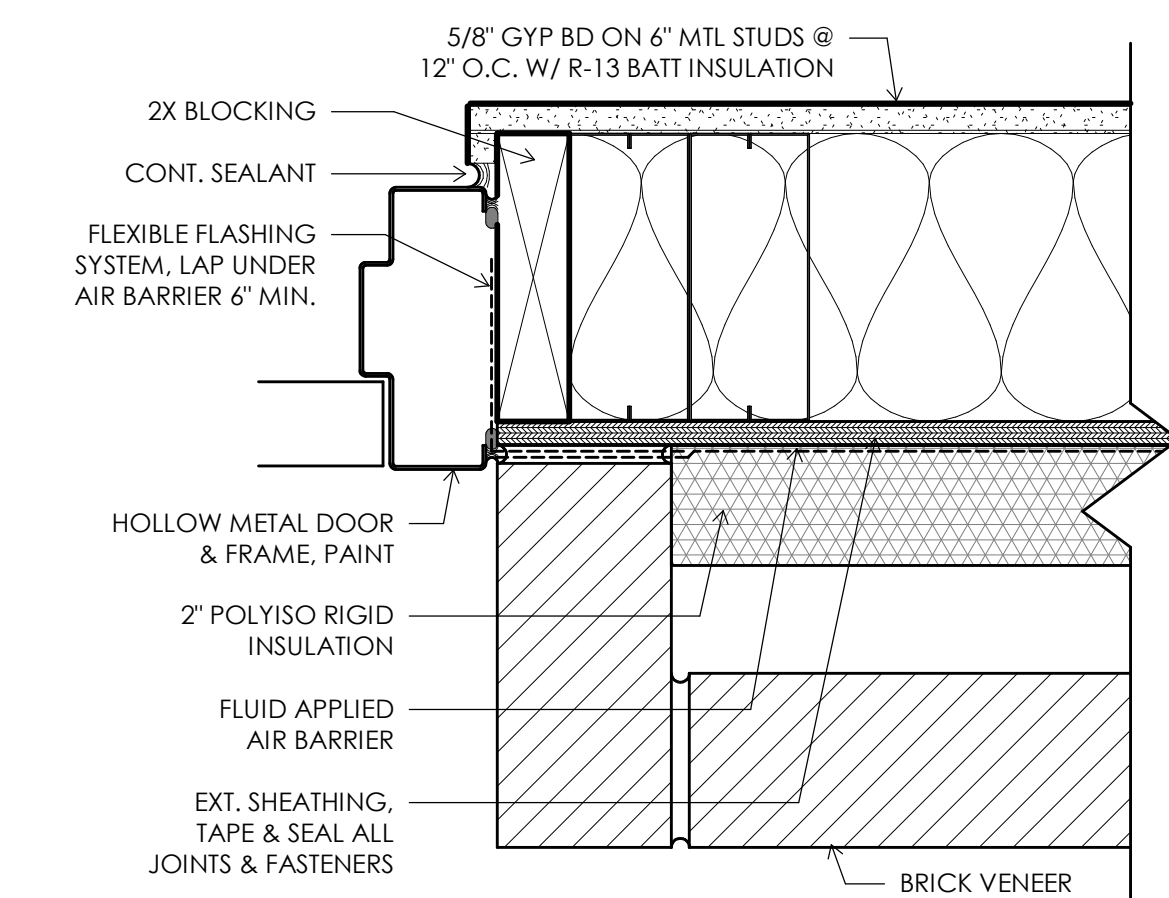
C11 THRESHOLD DETAIL
3\"/>



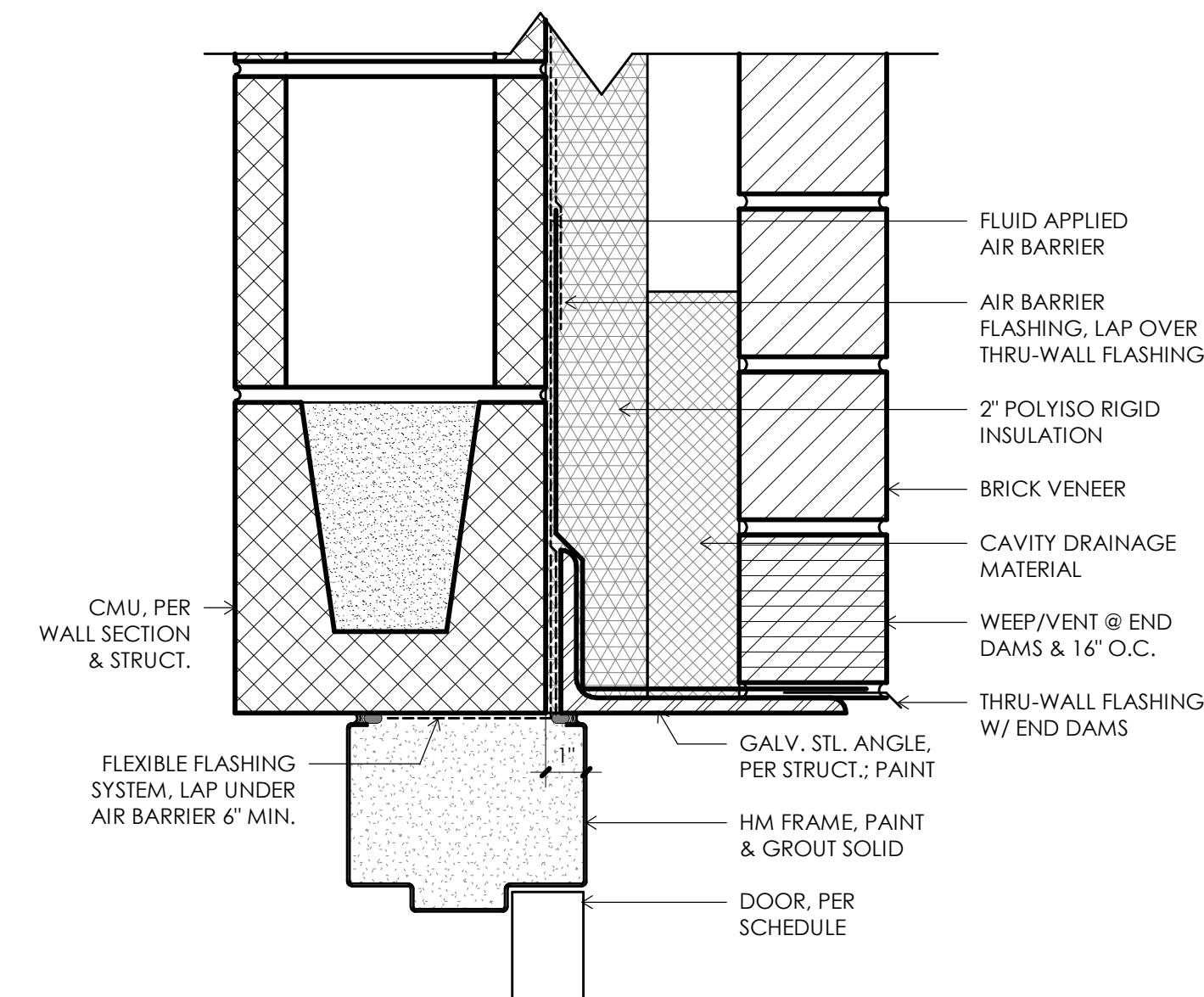
A11 THRESHOLD DETAIL
3\"/>



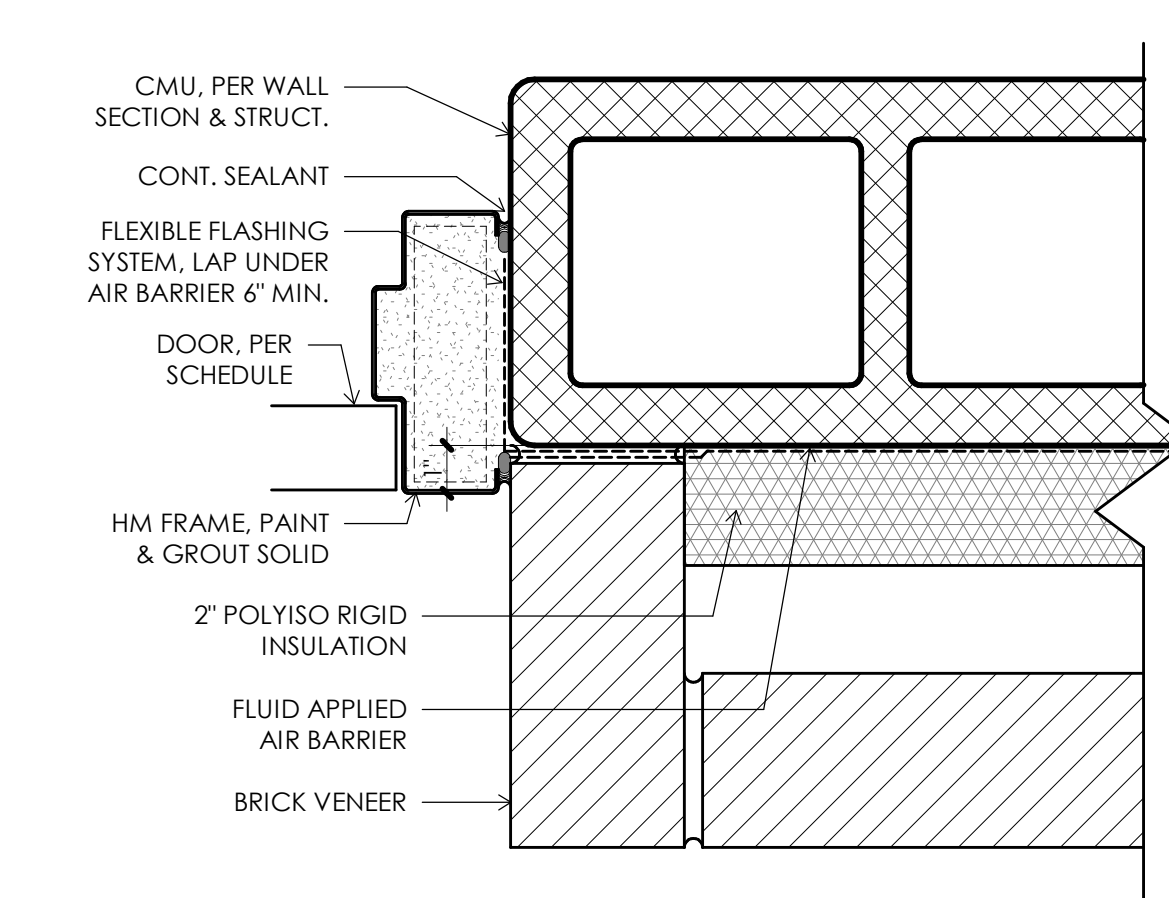
G7 HEAD DETAIL
3\"/>



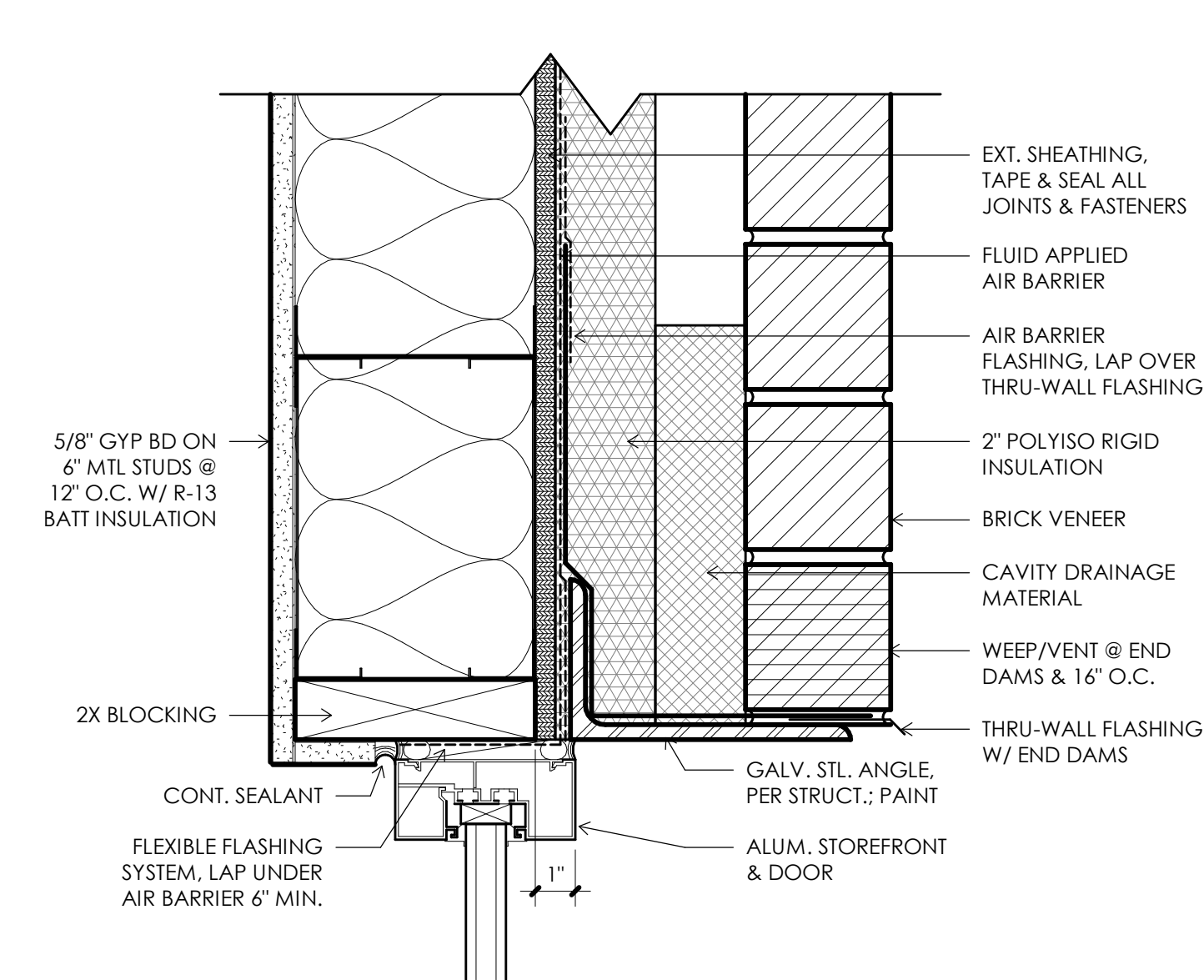
E7 JAMB DETAIL
3\"/>



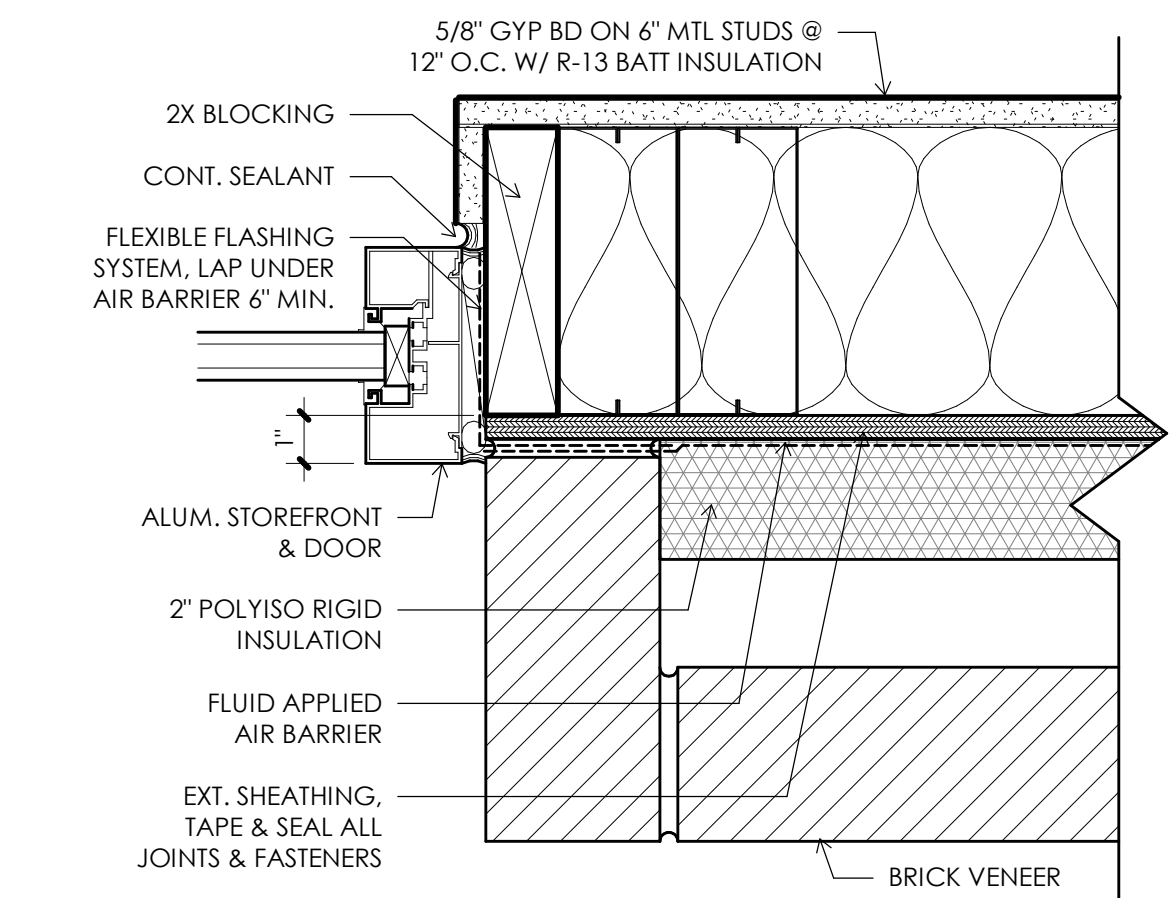
G5 HEAD DETAIL
3\"/>



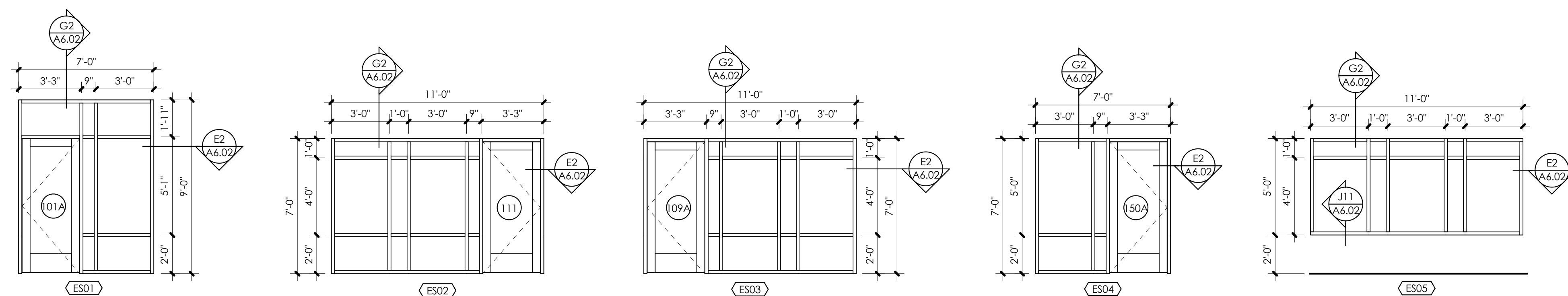
E5 JAMB DETAIL
3\"/>



G2 HEAD DETAIL
3\"/>

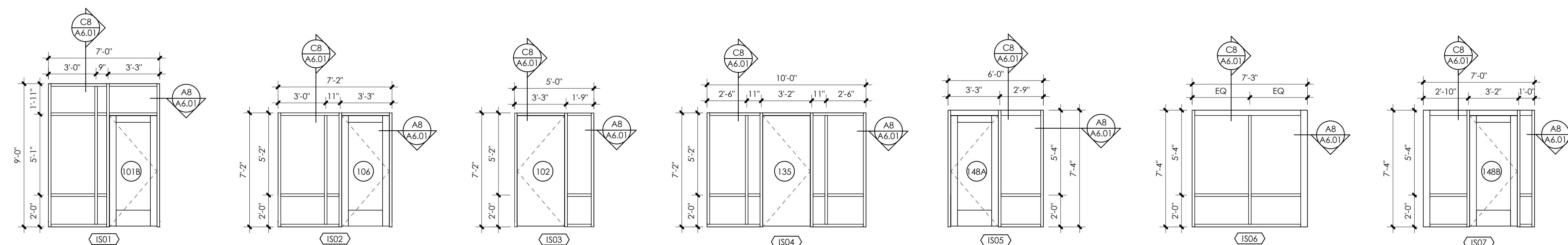


E2 JAMB DETAIL
3\"/>



GENERAL NOTE:
A. ALL EXTERIOR GLAZING TO BE TINTED AND INSULATED
B. PROVIDE TEMPERED GLAZING IN ALL LOCATIONS WHERE REQUIRED BY APPLICABLE CODES

C8 EXTERIOR STOREFRONT
1/4\"/>



GENERAL NOTE:
A. PROVIDE TEMPERED GLASS IN ALL LOCATIONS WHERE REQUIRED BY APPLICABLE CODES

A8 INTERIOR STOREFRONT
1/4\"/>



Kansas Certificate of Authority #A-516
CIVIL ENGINEER
KAW Valley Engineering
KS Certificate of Authority #29241
1627 Sunflower Lane
Salina, KS 67401
785-823-3400

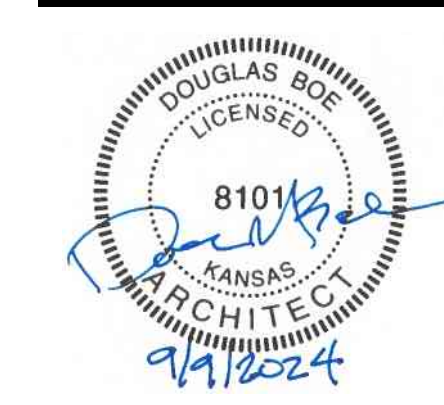
Structural Engineer
Bob D. Campbell & Co.
KS Certificate of Authority #000442
4338 Bellview
Kansas City, MO 64111
816-778-7149

MEP Engineer
PKMR Engineers, Inc.
KS Certificate of Authority #E-2002020886
13300 W. 98th St.
Lenexa, KS 66215
913-492-2400

JOB NUMBER 22003

SALINA FIRE STATION #4

EAST CRAWFORD STREET
& MARKLEY ROAD
SALINA, KS 67401
CITY OF SALINA



Douglas Boe - Architect
KS # 8101

ISSUE DATE 09/09/2024
No. Description Date

WSKF, Inc. © 2024

STOREFRONT
DETAILS

A6.02

9/9/2024 10:23:01 AM
C:\Users\MathMcCaffrey\Desktop\Revit\2003_Salina Station_4_CENTRAL_mmccaffrey\vdtdrct.com.rvt



Kansas Certificate of Authority #A-516

CIVIL ENGINEER
KAW Valley Engineering
KS Certificate of Authority #29241
1427 Sunflower Lane
Salina, KS 67401
785-823-3400

Structural Engineer
Bob D. Campbell & Co.
KS Certificate of Authority
#000442
4338 Bellview
Kansas City, MO 64111
816-778-7149

M/E/P Engineer
PKMR Engineers, Inc.
KS Certificate of Authority
#E-2002020886
13300 W. 98th St.
Lenexa, KS 66215
913-492-2400

FINISH PLAN GENERAL NOTES:

- CONTRACTOR SHALL BE RESPONSIBLE FOR VERIFYING ALL DIMENSIONS AND EXISTING CONDITIONS. ANY DISCREPANCIES WHICH WILL PREVENT THE ACCOMPLISHMENT OF INTENT SHOWN ON DRAWINGS SHALL BE BROUGHT TO THE IMMEDIATE ATTENTION OF THE ARCHITECT.
- WHERE A CONDITION IS NOTED 'TYPICAL' (TYP.), IT IS UNDERSTOOD THAT ALL SIMILAR CONDITIONS BE CONSTRUCTED OF THE SAME MATERIALS AND/OR DIMENSIONS.
- REFER TO ROOM FINISH SCHEDULES ON A7.01 FOR INTERIOR FINISH INFORMATION.
- REFER TO SIGNAGE SCHEDULE ON A7.04 FOR INTERIOR WALL MOUNTED ADA SIGNAGE AND LOCATIONS.

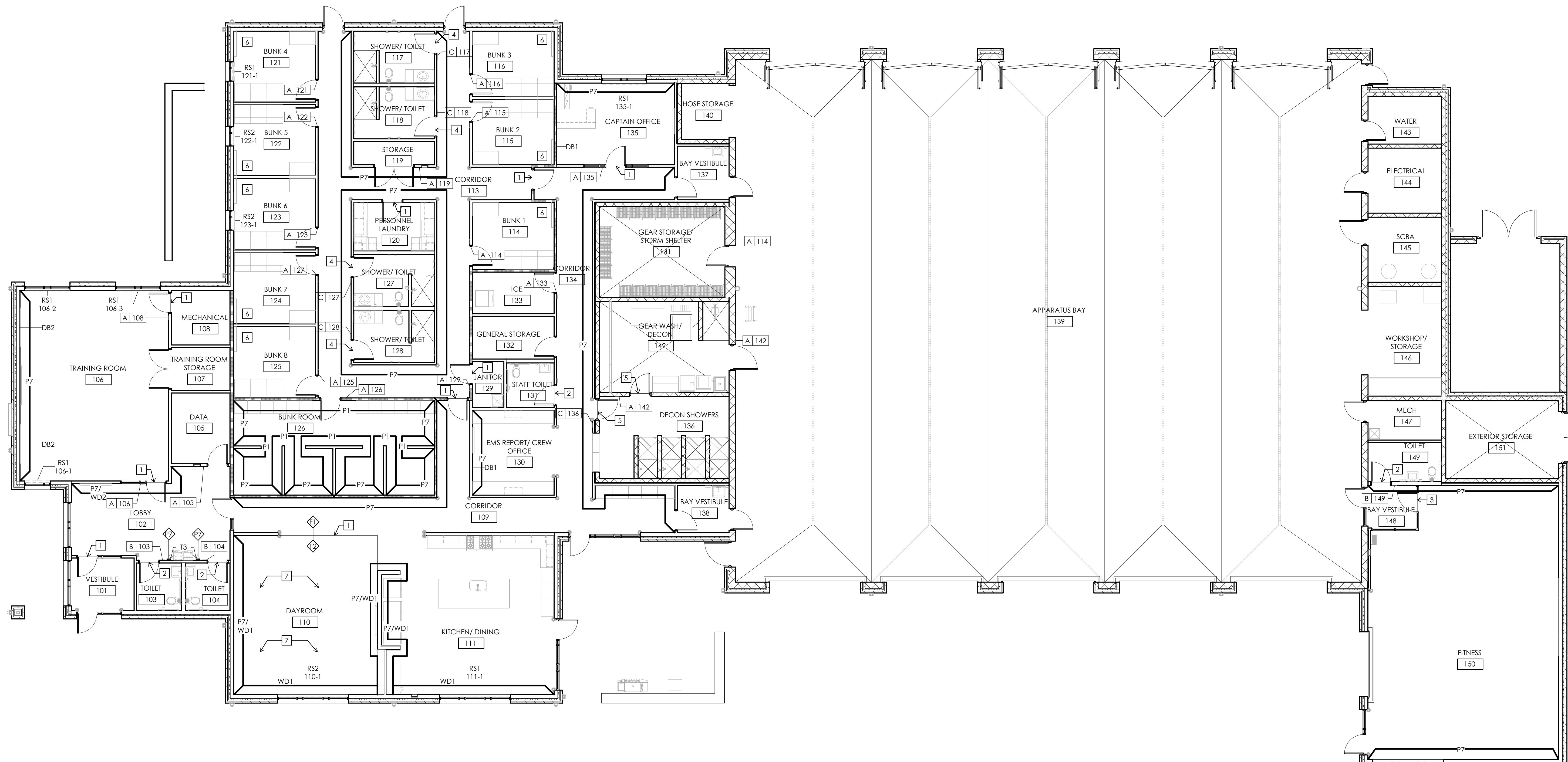
FINISH PLAN NOTES:

- 1 FLOORING TRANSITION, T51
- 2 FLOORING TRANSITION, T52
- 3 FLOORING TRANSITION, T53
- 4 FLOORING TRANSITION, T54
- 5 FLOORING TRANSITION, T55
- 6 WD2 TRIM ALL WALLS W/ P1 ABOVE AND P7 BELOW
- 7 FLOOR RECEPTACLE; RE: ELEC. DWGS.

FINISH PLAN LEGEND:

- A 100 SIGNAGE; RE: SIGNAGE SCHEDULE ON A7.04
- ### WALL FINISH/ ACCENT PAINT; REFER TO FINISH LEGEND & INTERIOR ELEVATIONS FOR KEY FINISH MATERIAL
- RS1 101-1 ROLLER SHADE AT WINDOW; REFER TO SCHEDULE ON A7.04
- CG# CORNER GUARD; RE: FINISH LEGEND ON A7.01
- DB# DISPLAY BOARD; RE: DISPLAY BOARD ON A7.04

JOB NUMBER 22003



SALINA FIRE STATION #4

EAST CRAWFORD STREET
& MARKLEY ROAD
SALINA, KS 67401
CITY OF SALINA

755 Minnesota Ave., Suite 662 Kansas City, Kansas 66101 Tel. 816.300.4101 Fax 816.300.4102



Douglas Boe - Architect
KS # 8101

ISSUE DATE 09/09/2024
No. Description Date

WSKF, Inc. © 2024

FINISH PLAN

A7.02

A11 FINISH PLAN
1/8" = 1'-0"

9/9/2024 10:25:05 AM
C:\Users\MathMcCaffrey\Desktop\Revit\22003_Salina Station 4_CENTRAL_mmccaffrey\vdtdrct.com.rvt



Kansas Certificate of Authority #A-516

CIVIL ENGINEER
KAW Valley Engineering
KS Certificate of Authority #29241
1427 Sunflower Lane
Salina, KS 67401
785-823-3400

Structural Engineer
Bob D. Campbell & Co.
KS Certificate of Authority #000442
4338 Bellview
Kansas City, MO 64111
816-778-7149

MEP Engineer
PKMR Engineers, Inc.
KS Certificate of Authority
#E-2002020886
13300 W. 98th St.
Lenexa, KS 66215
913-492-2400

GENERAL NOTES:

- A. OFOI= OWNER FURNISHED, OWNER INSTALLED.
- B. OFCI= OWNER FURNISHED, CONTRACTOR INSTALLED.
- C. CFCl= CONTRACTOR FURNISHED, CONTRACTOR INSTALLED

KEYED NOTES:

- 1. CONTRACTOR TO PROVIDE IN-WALL BLOCKING
- 2. RE: MEP FOR CONNECTION REQUIREMENTS
- 3. REFER TO INTERIOR ELEVATIONS
- 4. MONITOR INSTALLED BY OWNER, BRACKET INSTALLED BY CONTRACTOR

FFE SCHEDULE:

TAG	DESCRIPTION	OFOI	OFCl	CFCl	NOTES	SPEC SECT.
E1	VENDING MACHINE	X			2	
E2	LOUNGE CHAIRS	X				
E3	NESTING CHAIR W/ CASTERS	X				
E4	MOBILE NESTING TABLE - 24" X 72"	X				
E5	TV/MONITOR & BRACKET		X		2, 3, 4	
E6	RECLINERS	X				
E7	SIDE TABLE	X				
E8	DINING TABLE & CHAIRS	X				
E9	COUNTER STOOLS	X				
E10	REFRIGERATOR	X			2	
E11	GAS RANGE		X		2	
E12	VENT HOOD			X	2	
E13	UNDER COUNTER ICE MAKER		X		2	
E14	COFFEE MAKER (PLUMBED)		X		2	
E15	DISHWASHER		X		2	
E16	MICROWAVE	X			2	
E17	LARGE TASH BIN	X				
E18	PATIO TABLE	X				
E19	GRILL (NATURAL GAS)	X			2	
E20	SMOKER (ELECTRIC)	X			2	
E21	TASK CHAIR	X				
E22	WIRE SHELVING	X				
E23	ICE MAKER	X			2	
E24	PERSONEL LOCKERS			X	105113	
E25	BED FRAME & MATTRESS	X				
E26	WASHER & DRYER		X		2	
E27	EMERGENCY SHOWER/EYE WASH			X	2	
E28	GROSS DECON. EXTRACTOR		X		2	
E29	GEAR/PPE DRYER CABINET		X		2	
E30	GEAR DRYING RODS			X	3	
E31	PASS THROUGH LOCKERS			X	105126	
E32	GUEST CHAIR	X				
E33	SIDE TABLE W/ CHAIRS	X				
E34	L-SHAPED DESK W/ STORAGE	X				
E35	HOSE STORAGE RACK	X				
E36	GEAR STORAGE LOCKER			X	105030	
E37	BUILDING AIR COMPRESSOR			X	2	
E38	CUSTOM BOTTLE STORAGE RACK	X				
E39	SCBA COMPRESSOR		X		2	
E40	TREADMILL	X			2	
E41	ROWING MACHINE	X			2	
E42	EXERCISE BIKE	X			2	
E43	STAIR CLIMBER	X			2	
E44	POWER RACK	X				
E45	ADJUSTABLE BENCH	X				
E46	DUMBBELLS WITH RACK	X				
E47	PULL DOWN MACHINE	X				
E48	MULTI-FUNCTION CABLE MACHINE	X				
E49	30" BOX	X				
E50	BUMPER PLATE RACK	X				
E51	STAINLESS STEEL TABLE			X	123553.13	
E52	STAINLESS STEEL ADJ. SHELVING			X	3 123553.13	
E53	DINING CHAIR	X				
E54	PATIO CHAIR	X				
E55	MOBILE AIR TANK RACK	X				
E56	SCBA FILL STATION	X				

JOB NUMBER 22003

SALINA FIRE STATION #4

EAST CRAWFORD STREET & MARKLEY ROAD
SALINA, KS 67401
CITY OF SALINA
755 Minnesota Ave., Suite 662 Kansas City, Kansas 66101 Tel: 816.300.4101 Fax: 816.300.4102



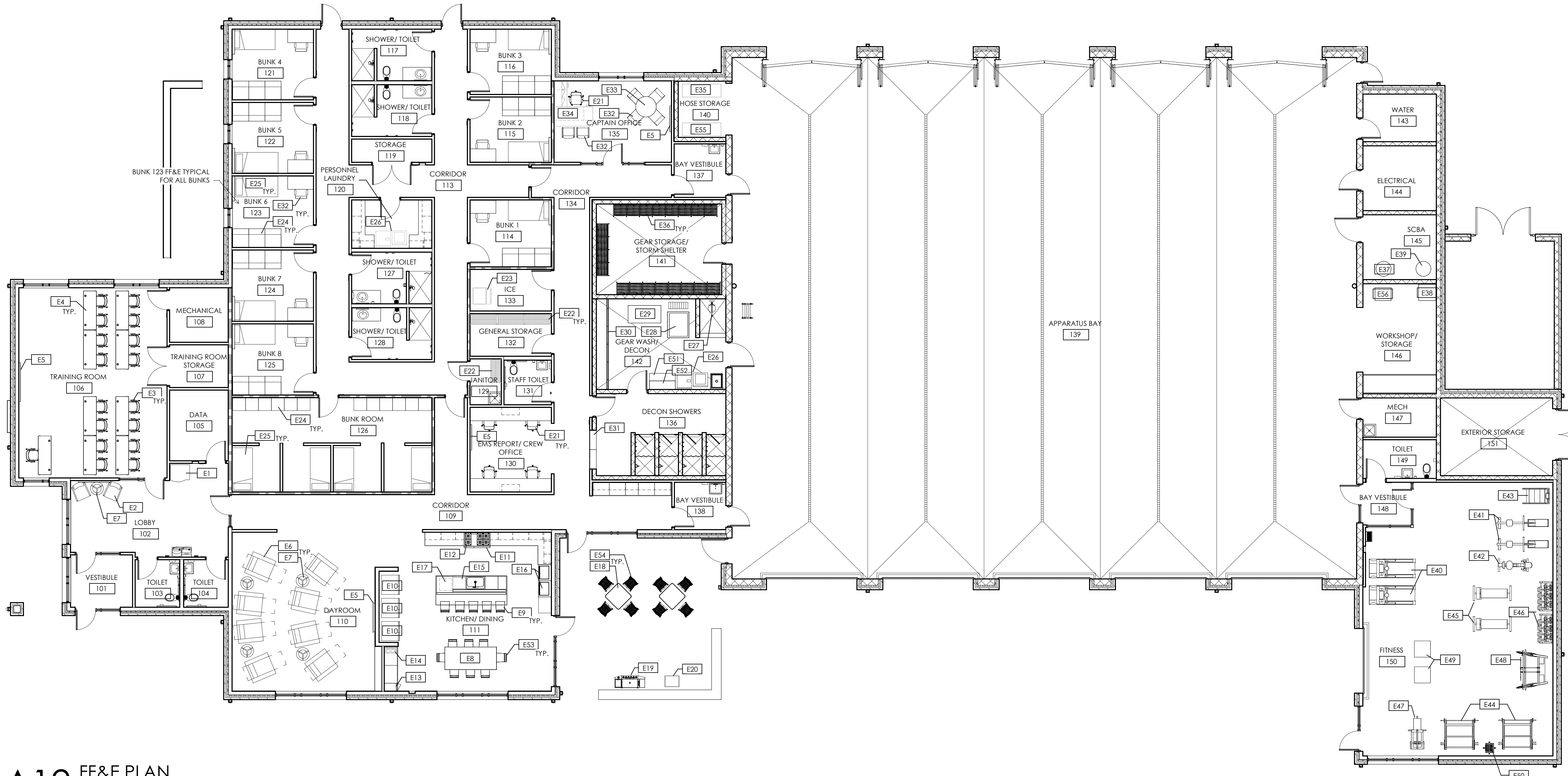
Douglas Bae - Architect
KS # 8101

ISSUE DATE 09/09/2024
No. Description Date

WSKF, Inc. © 2024

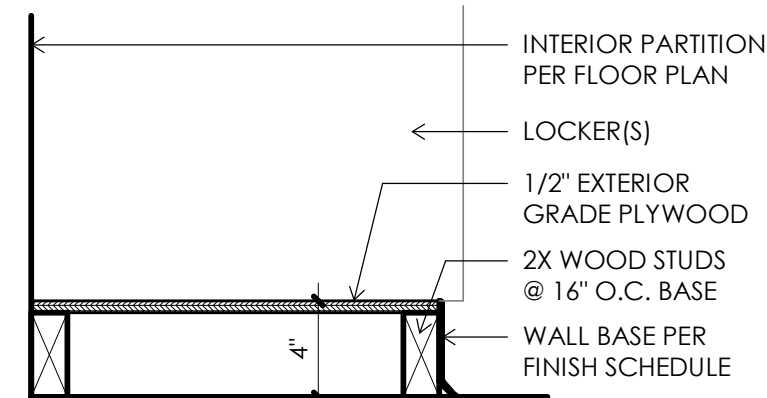
FF&E PLAN

A7.03

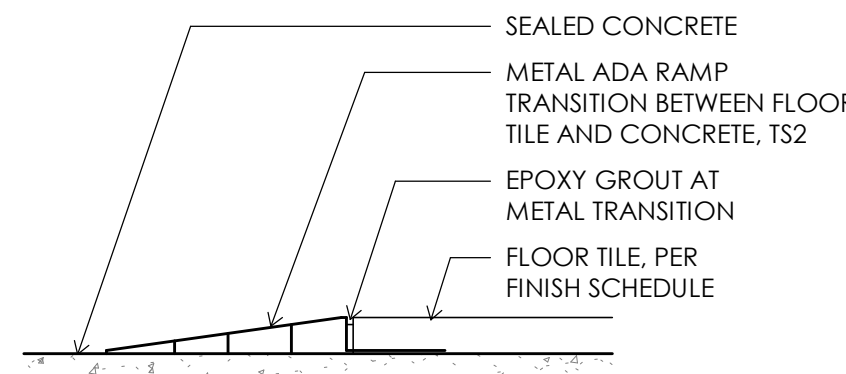


A12 FF&E PLAN
1/8" = 1'-0"

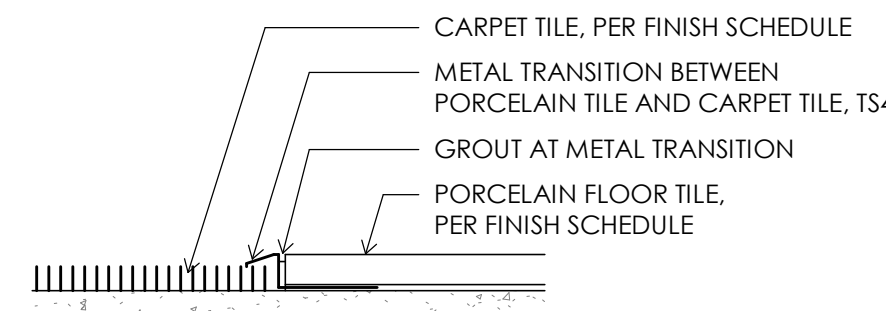
9/9/2024 10:25:09 AM
C:\Users\MathMcCaffrey\Desktop\Revit\2003_Salina Station 4_CENTRAL_mmccaffrey\vdtdrch.com.rvt



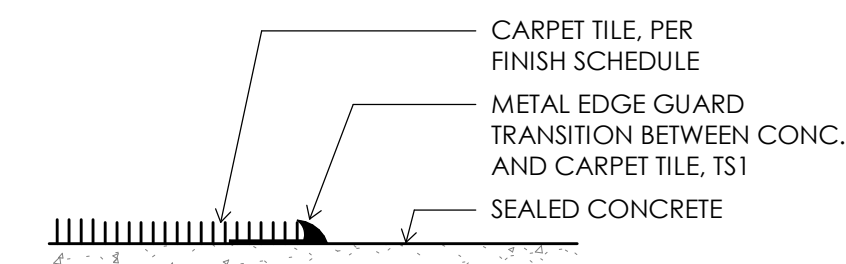
J9 LOCKER BASE
1 1/2" = 1'-0"



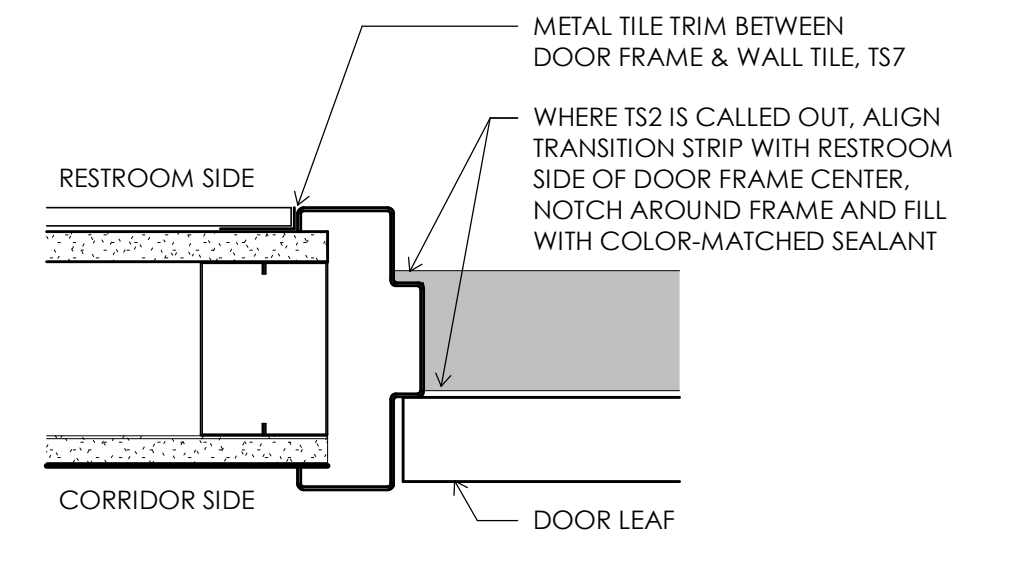
J7 TRANSITION DETAIL
6" = 1'-0"



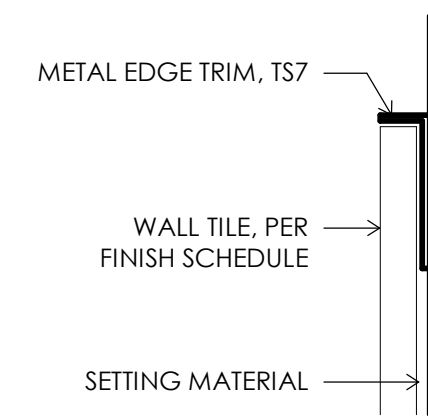
J5 TRANSITION DETAIL
6" = 1'-0"



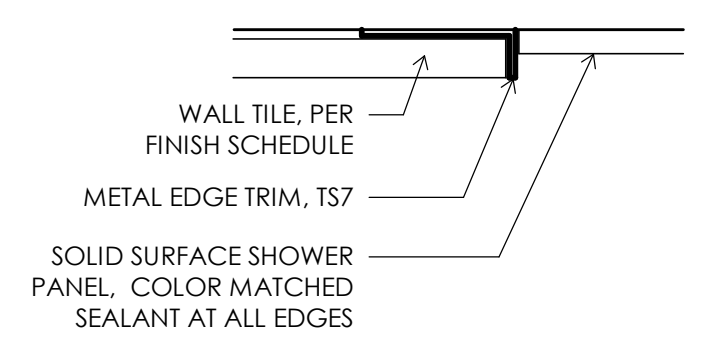
J4 TRANSITION DETAIL
6" = 1'-0"



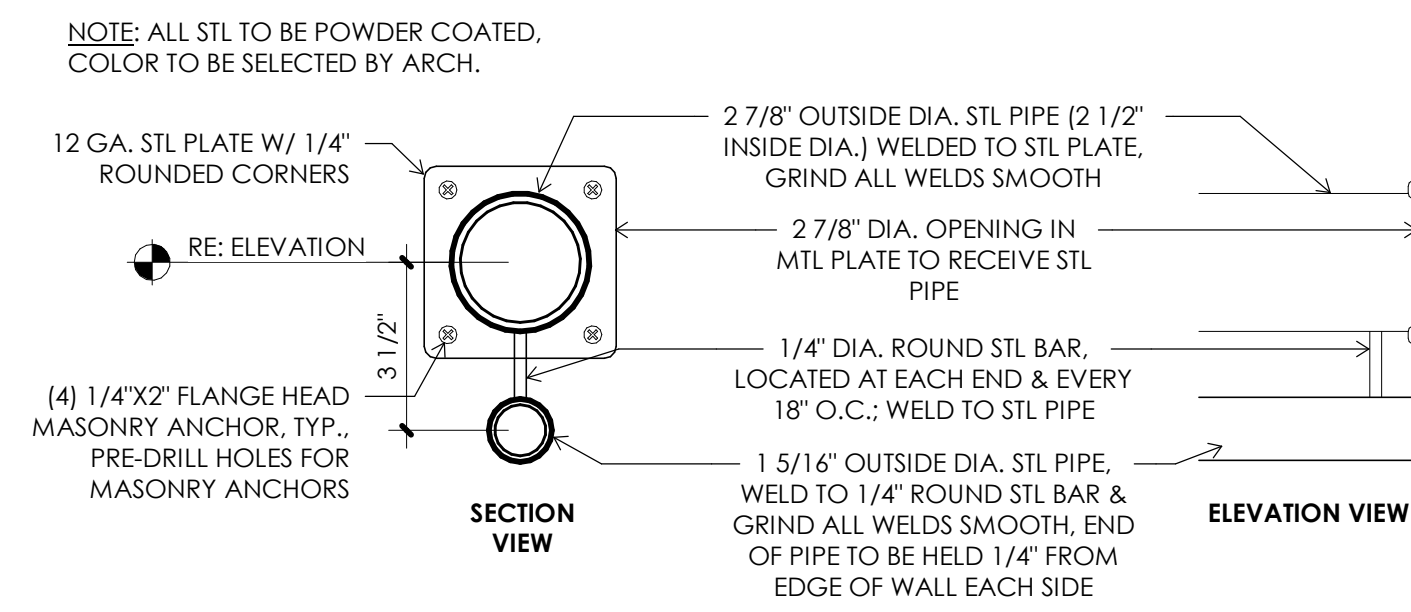
J2 TILE DETAIL
3" = 1'-0"



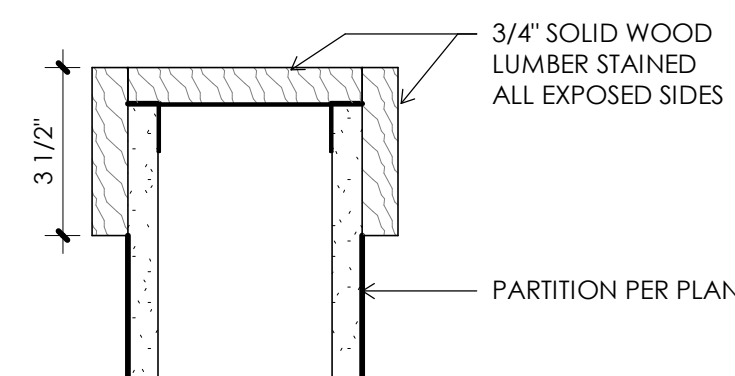
H2 TILE DETAIL
6" = 1'-0"



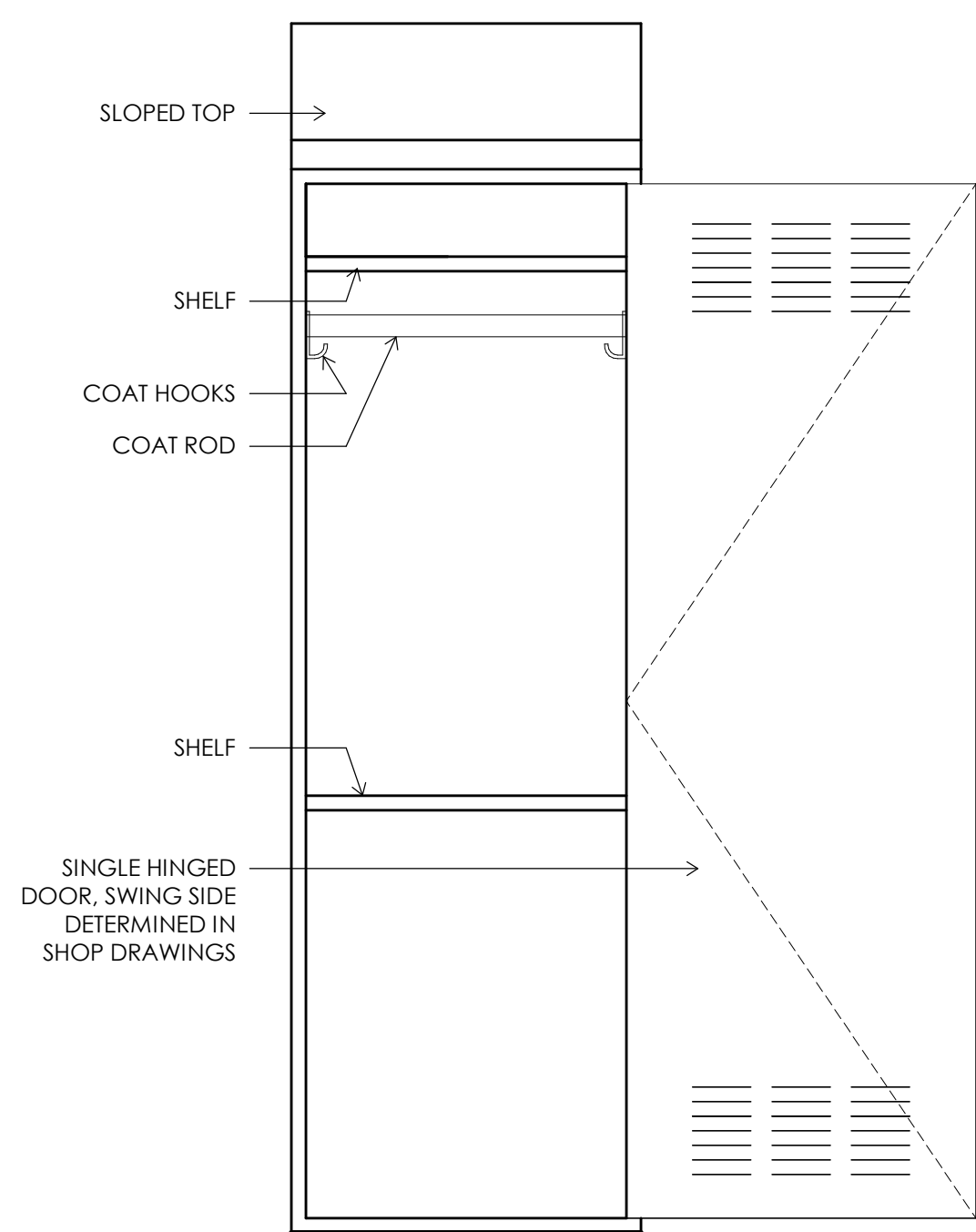
G2 TILE DETAIL
6" = 1'-0"



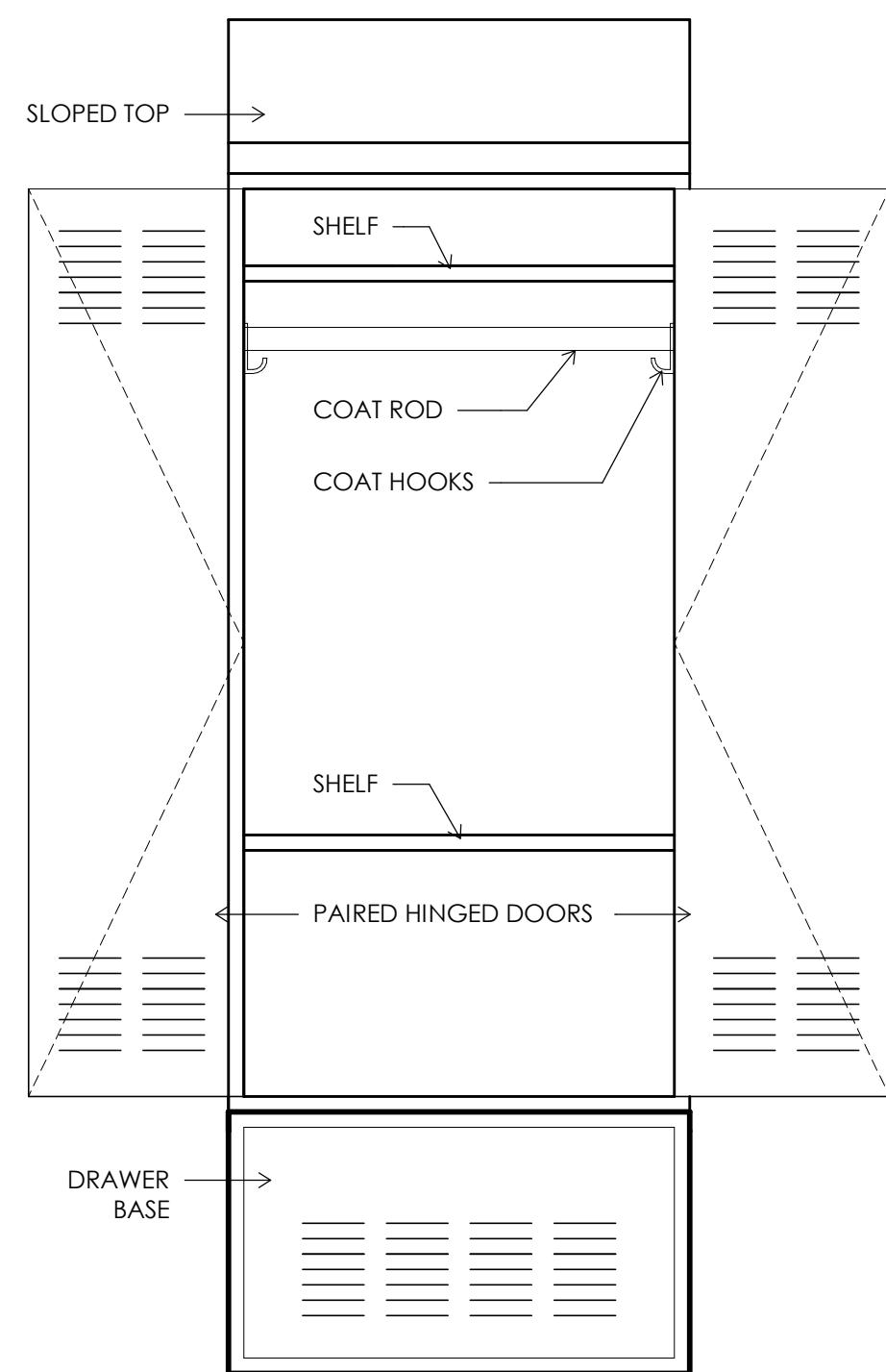
G5 GEAR HANGING ROD
3" = 1'-0"



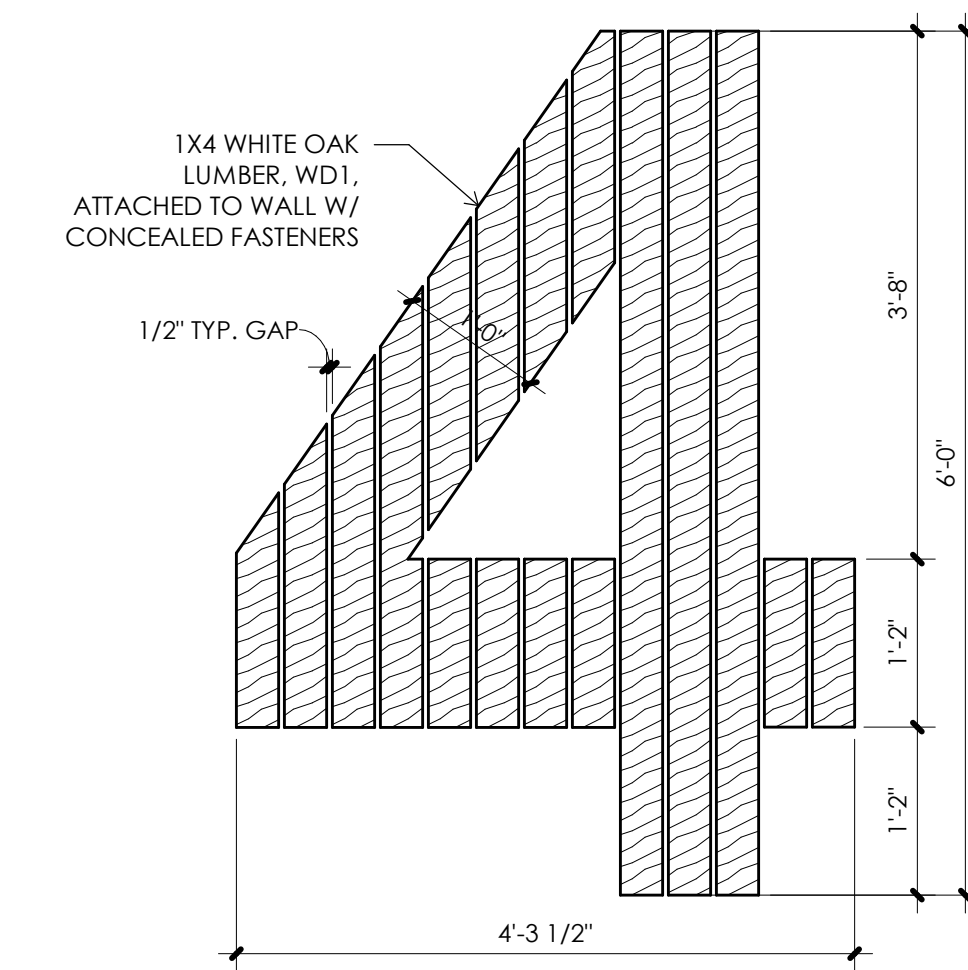
G7 WALL CAP
3" = 1'-0"



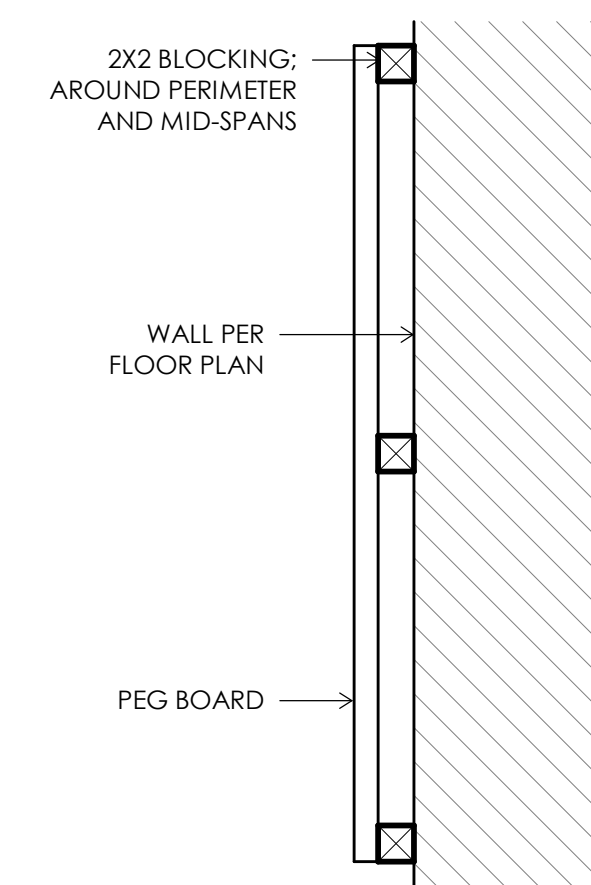
D11 LOCKER CONFIGURATION - DORM BUNK
1" = 1'-0"



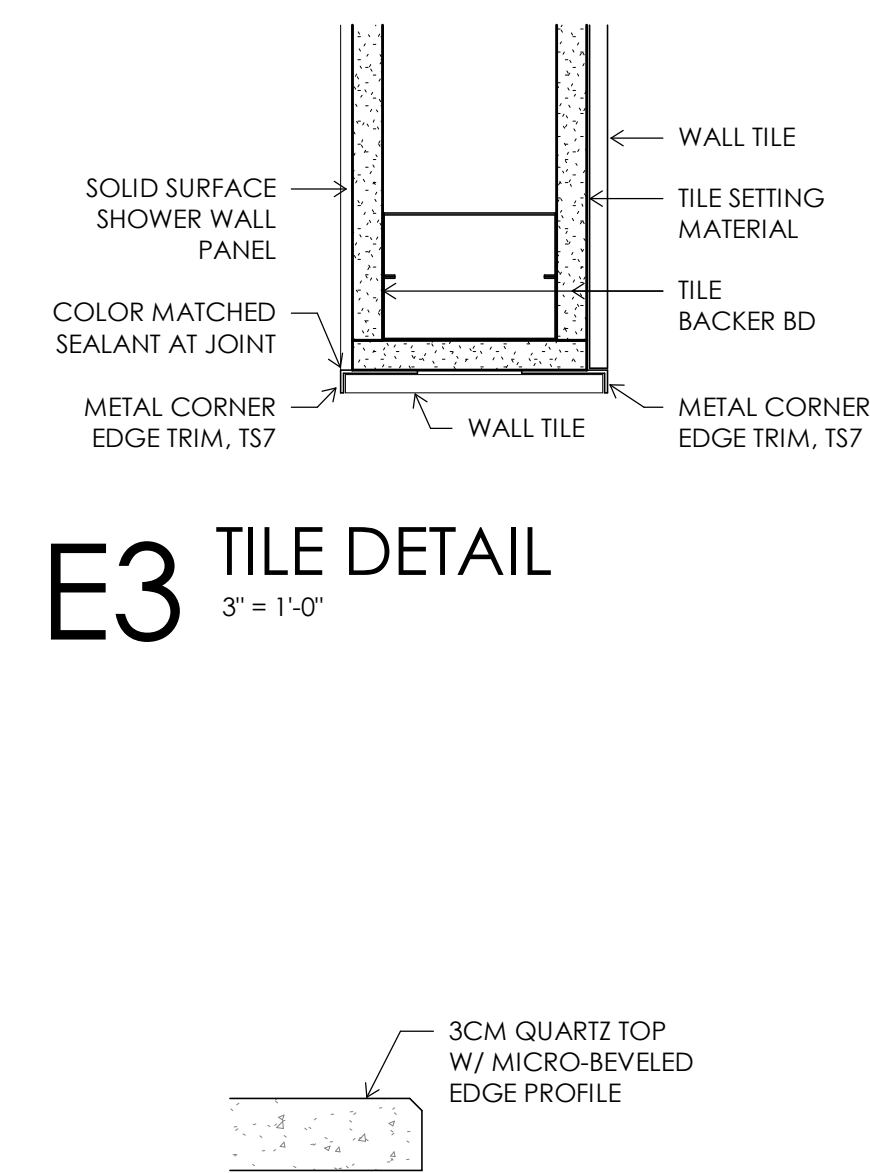
D9 LOCKER CONFIGURATION - PRIVATE BUNK
1" = 1'-0"



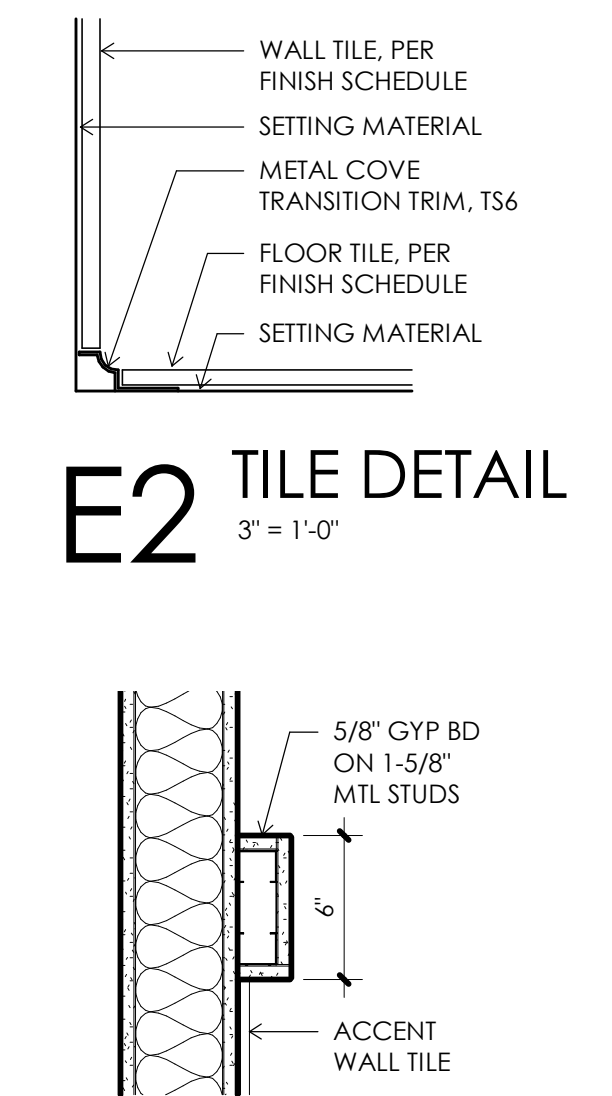
D7 WALL ART DETAIL
3/4" = 1'-0"



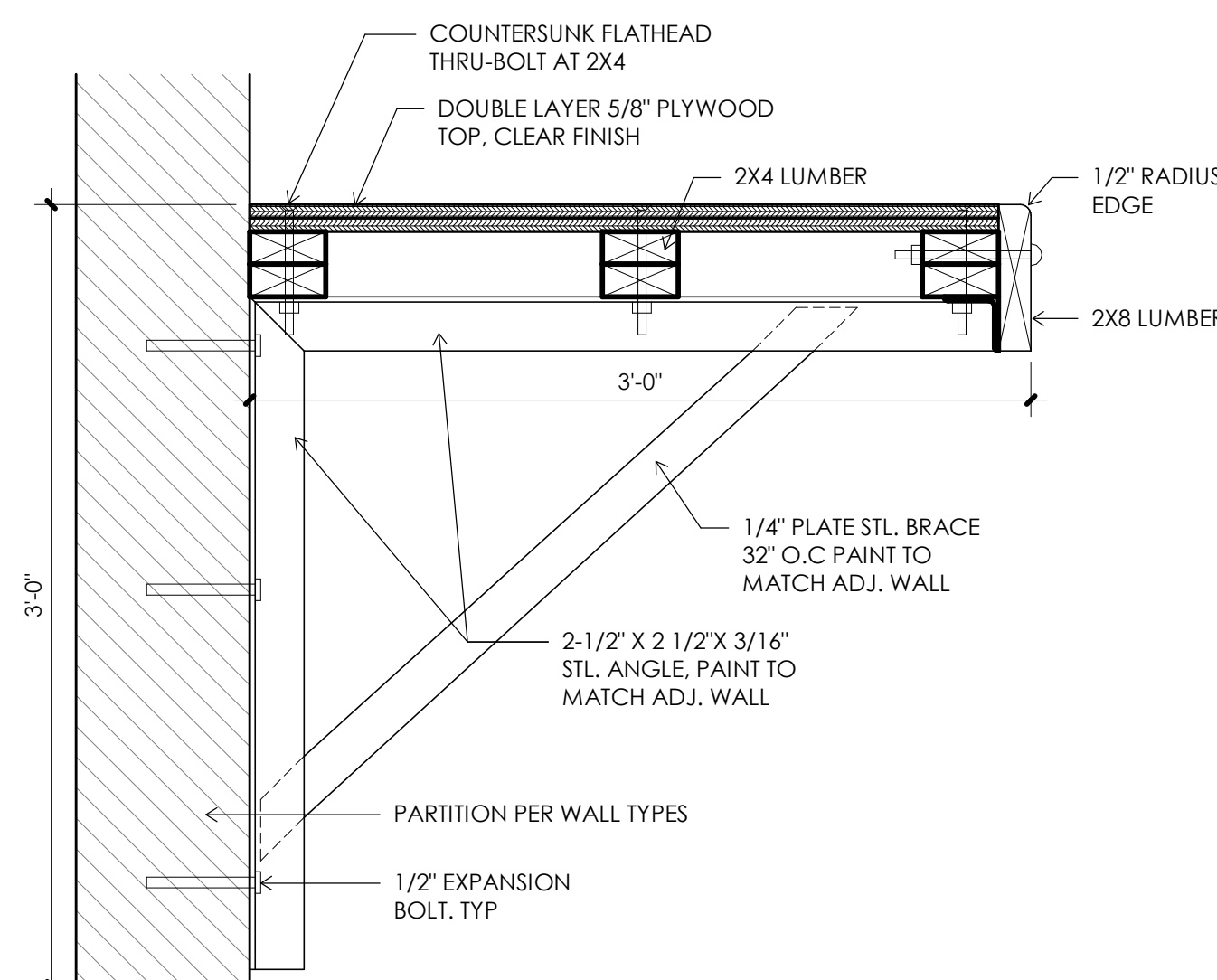
D5 PEG BOARD
1 1/2" = 1'-0"



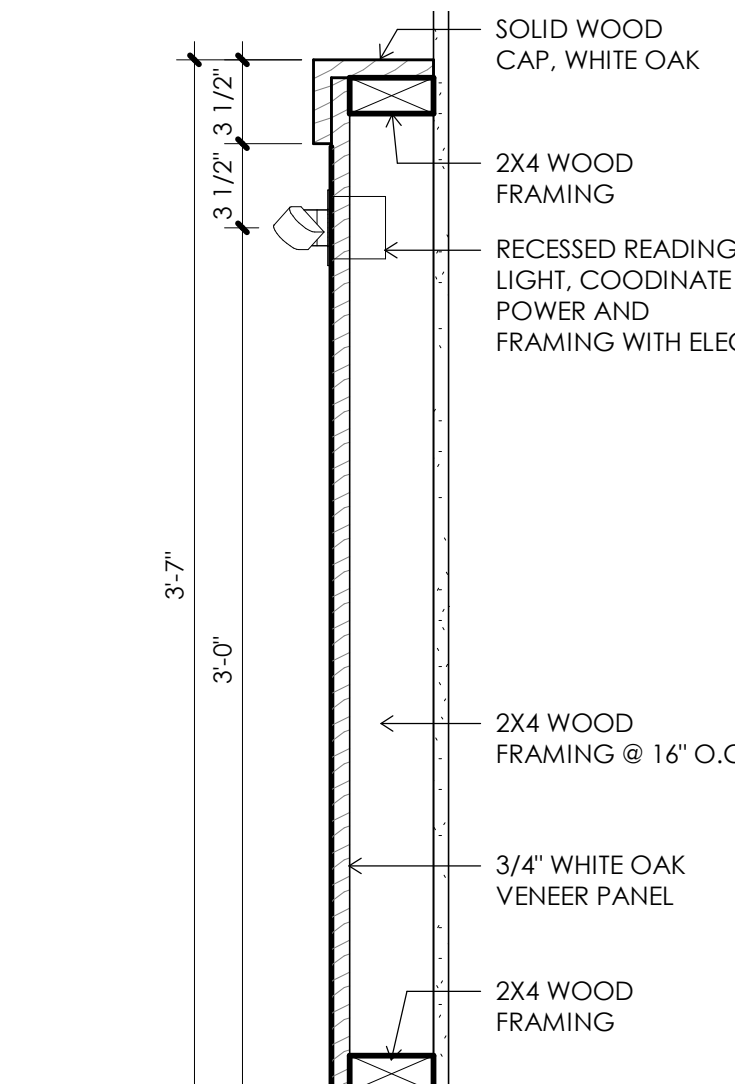
D3 QUARTZ EDGE DETAIL
3" = 1'-0"



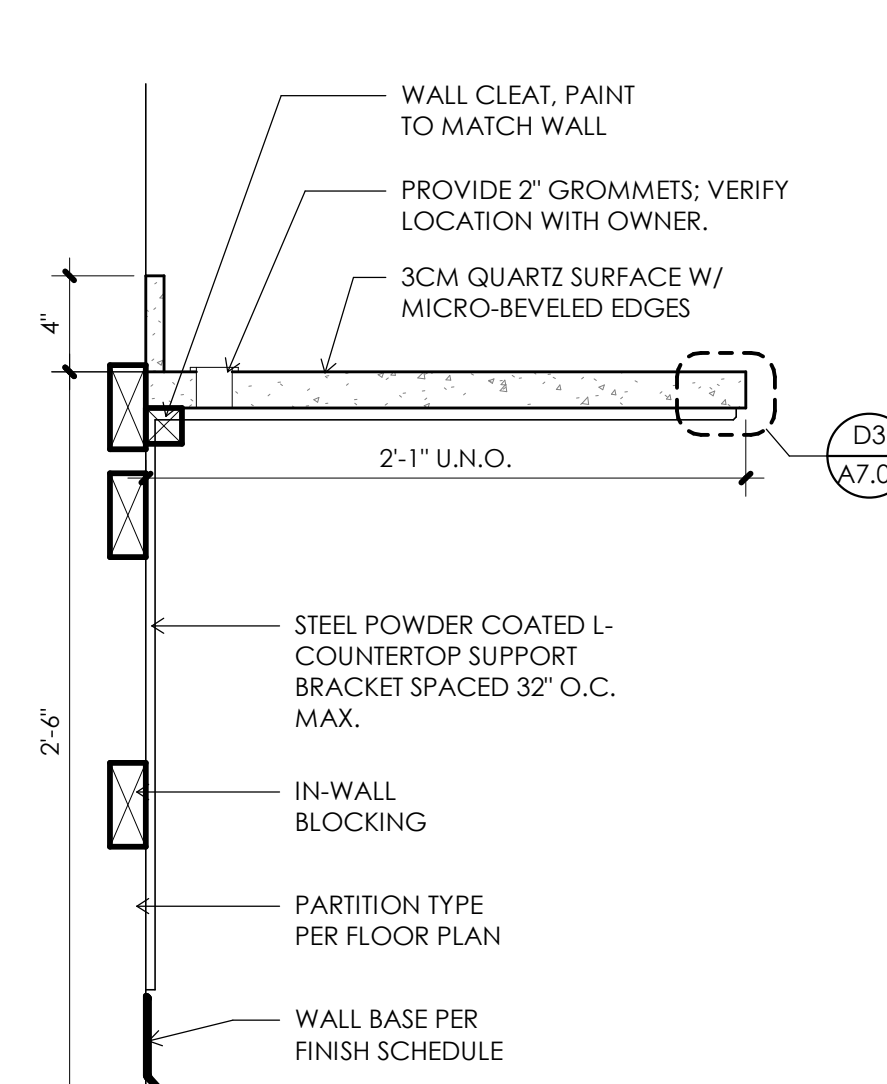
D2 TILE DETAIL
1 1/2" = 1'-0"



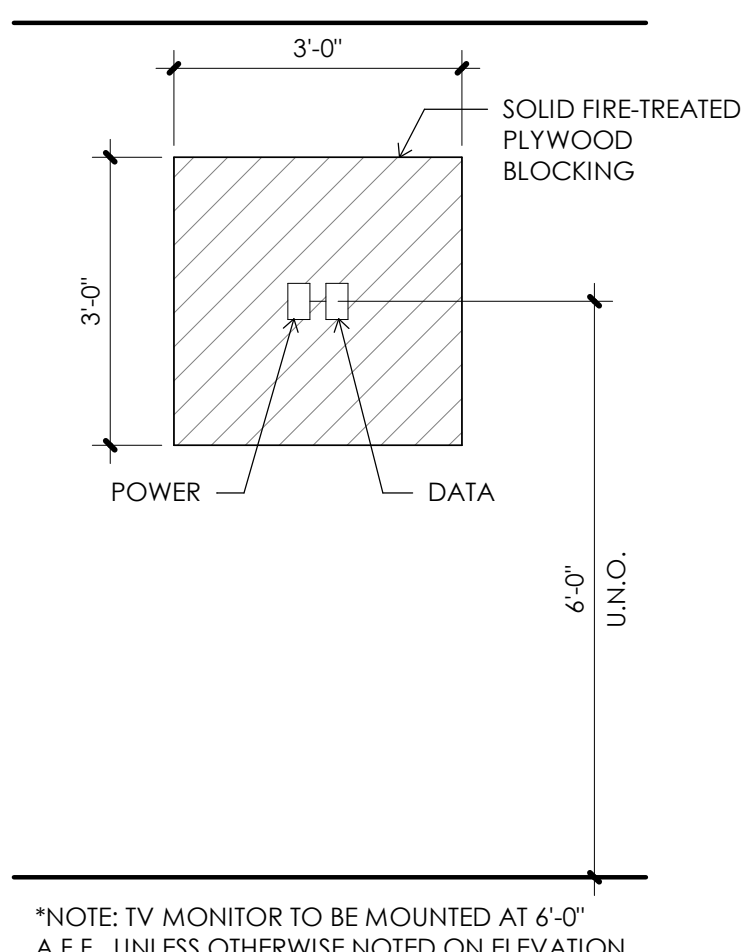
A9 WORKBENCH SECTION
1 1/2" = 1'-0"



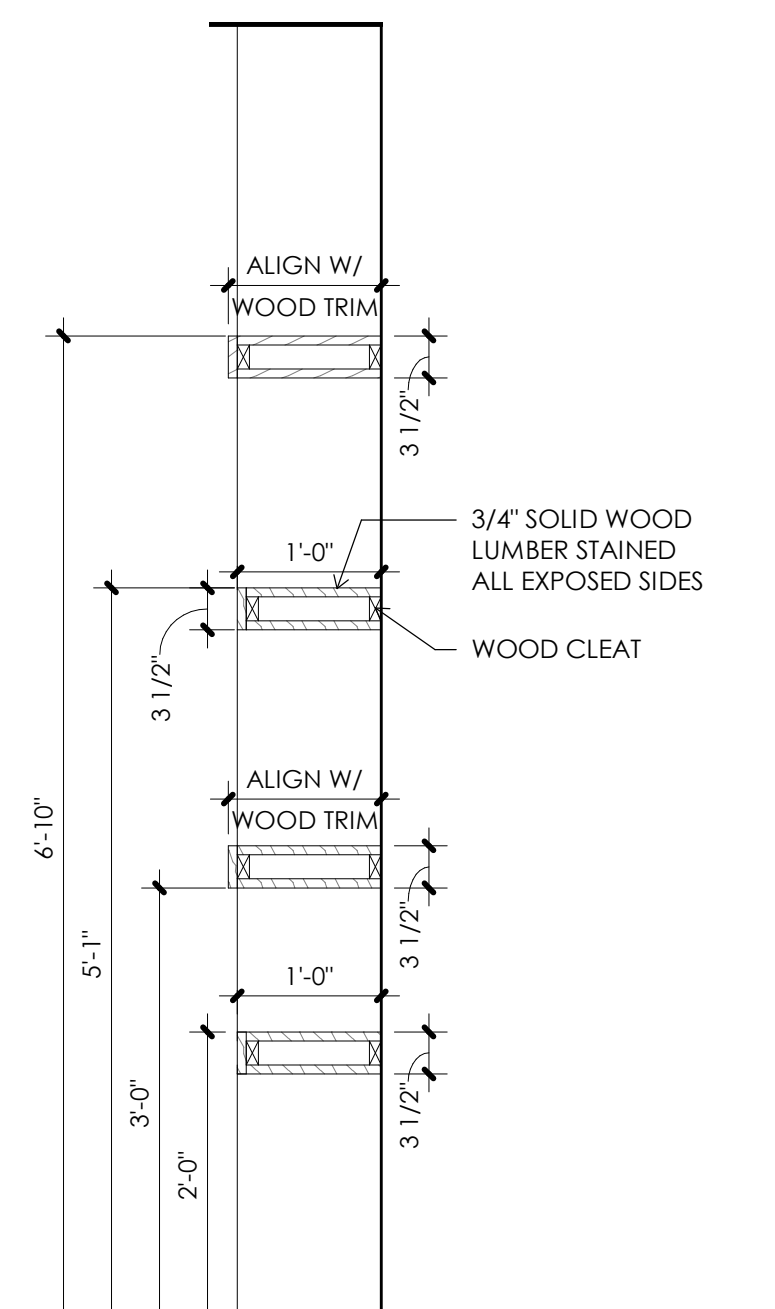
A7 HEADBOARD DETAIL
1 1/2" = 1'-0"



A5 QUARTZ COUNTERTOP
1 1/2" = 1'-0"



A3 WALL MOUNTED TV
1/2" = 1'-0"



A2 SHELF DETAIL
3/4" = 1'-0"



Kansas Certificate of Authority #A-516

CIVIL ENGINEER
KAW Valley Engineering
KS Certificate of Authority #29241
1627 Sunflower Lane
Salina, KS 67401
785-823-3400

Structural Engineer
Bob D. Campbell & Co.
KS Certificate of Authority #000442
4338 Bellview
Kansas City, MO 64111
816-778-7149

MEP Engineer
PKMR Engineers, Inc.
KS Certificate of Authority #E-2002020886
13300 W. 98th St.
Lenexa, KS 66215
913-492-2400

JOB NUMBER 22003

SALINA FIRE STATION #4
EAST CRAWFORD STREET
& MARKLEY ROAD
SALINA, KS 67401
CITY OF SALINA
755 Minnesota Ave., Suite 662 Kansas City, Kansas 66101 Tel. 816.300.4101 Fax 816.300.4102



Douglas Bae - Architect
KS # 8101

ISSUE DATE 09/09/2024
No. Description Date

WSKF, Inc. © 2024

INTERIOR DETAILS

A7.05



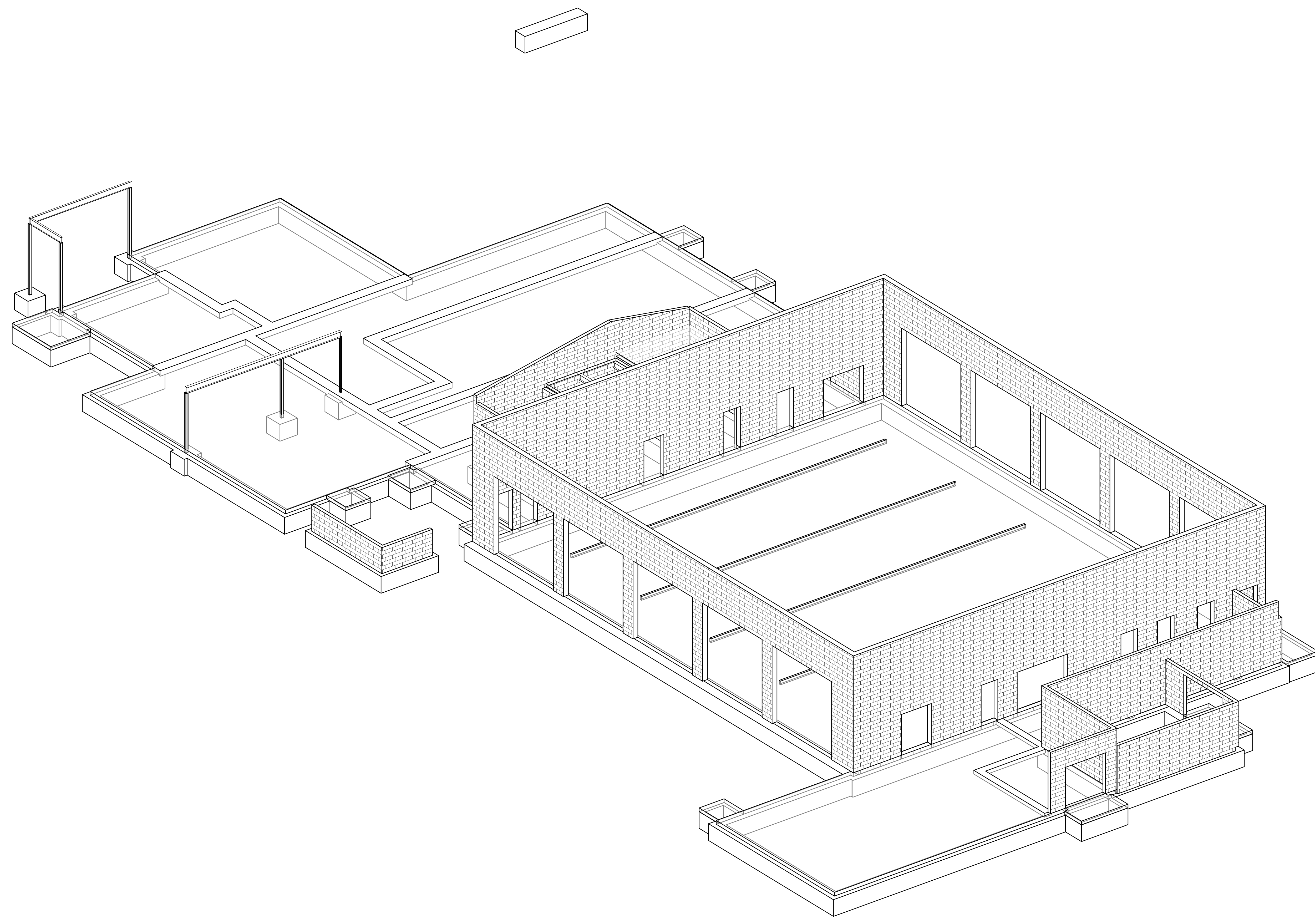
Kansas Certificate of Authority #A-516

CIVIL ENGINEER
KAW Valley Engineering
KS Certificate of Authority #29241
1627 Sunflower Lane
Salina, KS 67401
785-823-3400

Structural Engineer
Bob D. Campbell & Co.
KS Certificate of Authority
#000442
4338 Bellview
Kansas City, MO 64111
816-778-7149

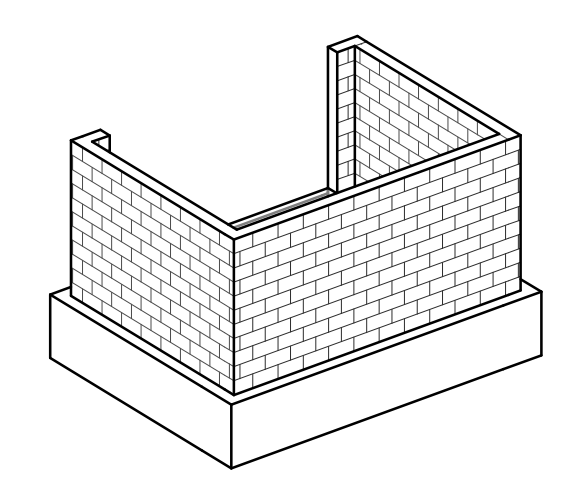
MEP Engineer
PKMR Engineers, Inc.
KS Certificate of Authority
#E-2002020886
13300 W. 98th St.
Lenexa, KS 66215
913-492-2400

JOB NUMBER 22003



1 3D VIEW

NOTE: THIS VIEW IS PROVIDED FOR ILLUSTRATIVE PURPOSES ONLY. NOT ALL STRUCTURAL MEMBERS AND COMPONENTS ARE DEPICTED IN THIS VIEW. REFER TO PLANS, NOTES AND DETAILS FOR ADDITIONAL INFORMATION.



SALINA FIRE STATION #4

EAST CRAWFORD STREET
& MARKLEY ROAD
SALINA, KS 67401
CITY OF SALINA

756 Minnesota Ave., Suite 662 Kansas City, Kansas 66101 Tel: 816.300.4101 Fax: 816.300.4102



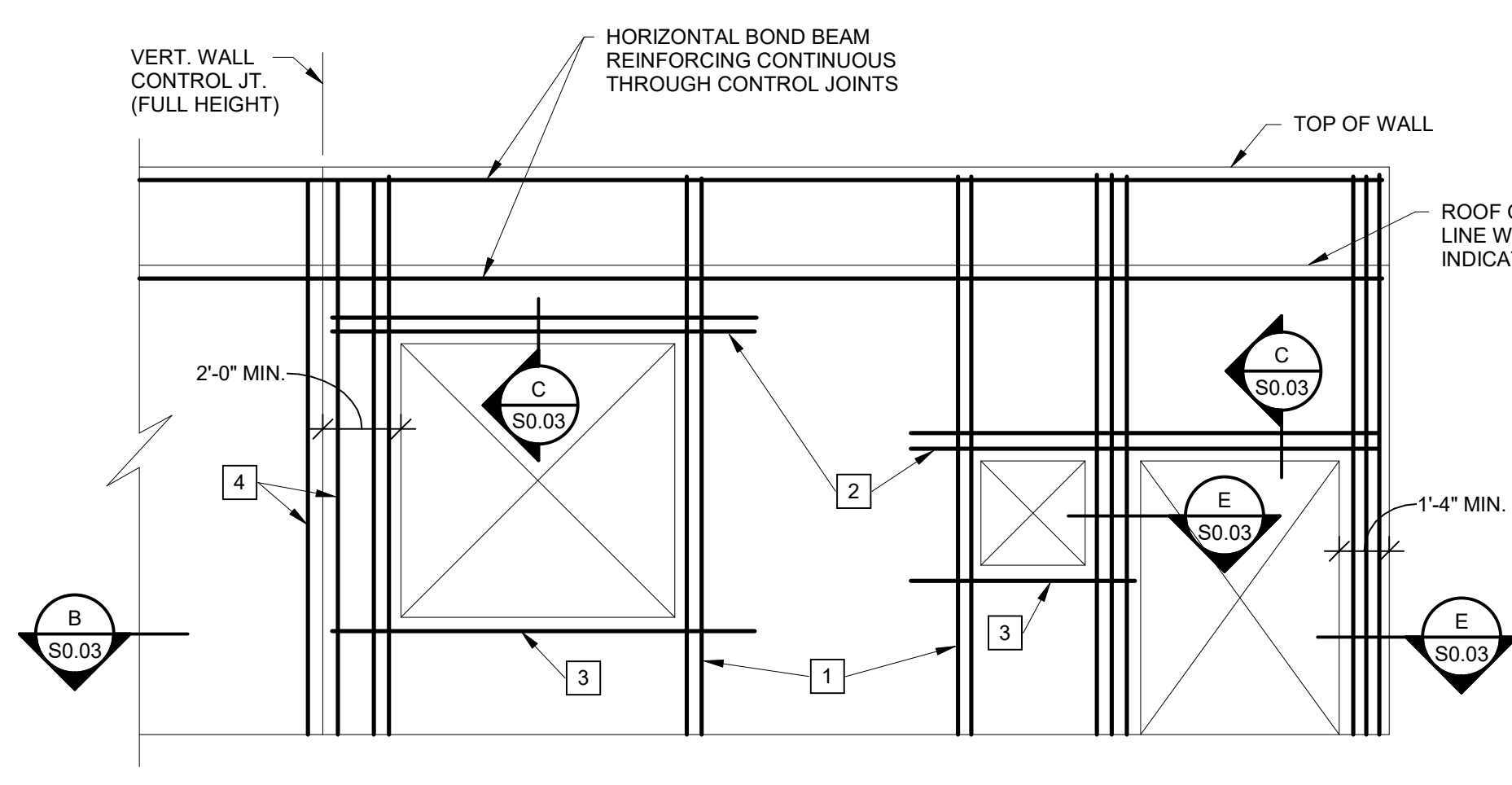
BID SET DOCUMENTS

ISSUE DATE 09/09/2024
No. Description Date

Table with 3 columns: No., Description, Date. Contains one row of data.

WSKF, Inc. © 2024

3D VIEW
S0.02



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.

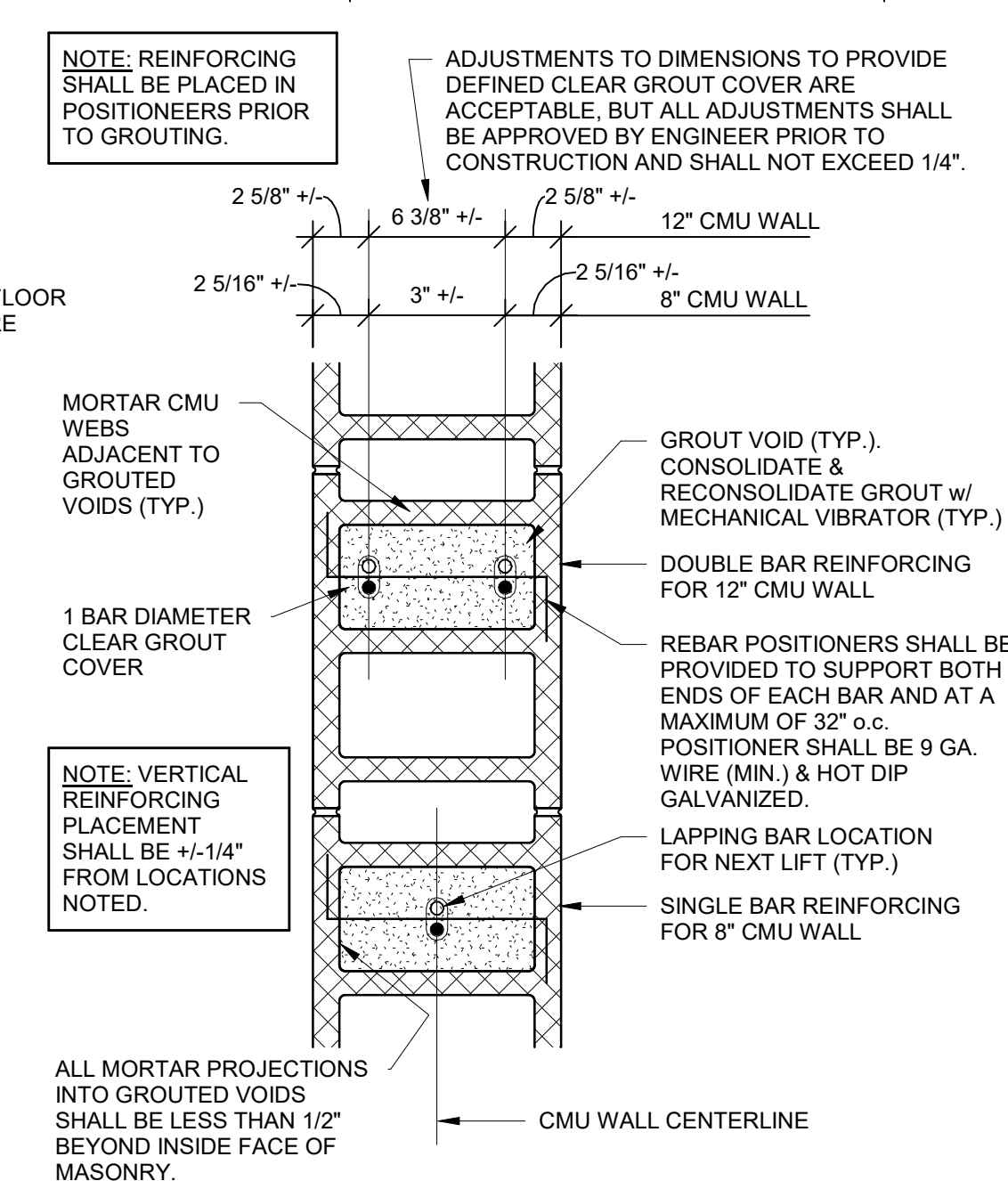
- GENERAL CRITERIA (SECTION A CONTINUED):**
- VERTICAL REINFORCING BARS SHALL BE DOWELED TO FOUNDATION WITH A DOWEL OF MATCHING SIZE AND SPACING.
 - CONTRACTOR SHALL COORDINATE AND VERIFY OPENINGS IN MASONRY WALLS. OPENINGS SHALL BE DETAILED ON REINFORCING STEEL SHOP DRAWING ELEVATIONS.
 - VERTICAL CONTROL 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 VERTICAL REINFORCING SCHEDULE FOR LOAD BEARING MASONRY (CMU) WALLS			
WALL THICKNESS	LOCATION	VERTICAL REINF. (IN GROUDED CELLS)	SPACING
8"	ALL 8" WALLS (U.N.O.)	(1) #5	32"oc
8"	GEAR STORAGE ROOM	(1) #5	8"oc
8"	TRASH ENCLOSURE	(1) #5	16"oc
12"	ALL 12" WALLS (U.N.O.)	(2) #6	32"oc

NOTES:

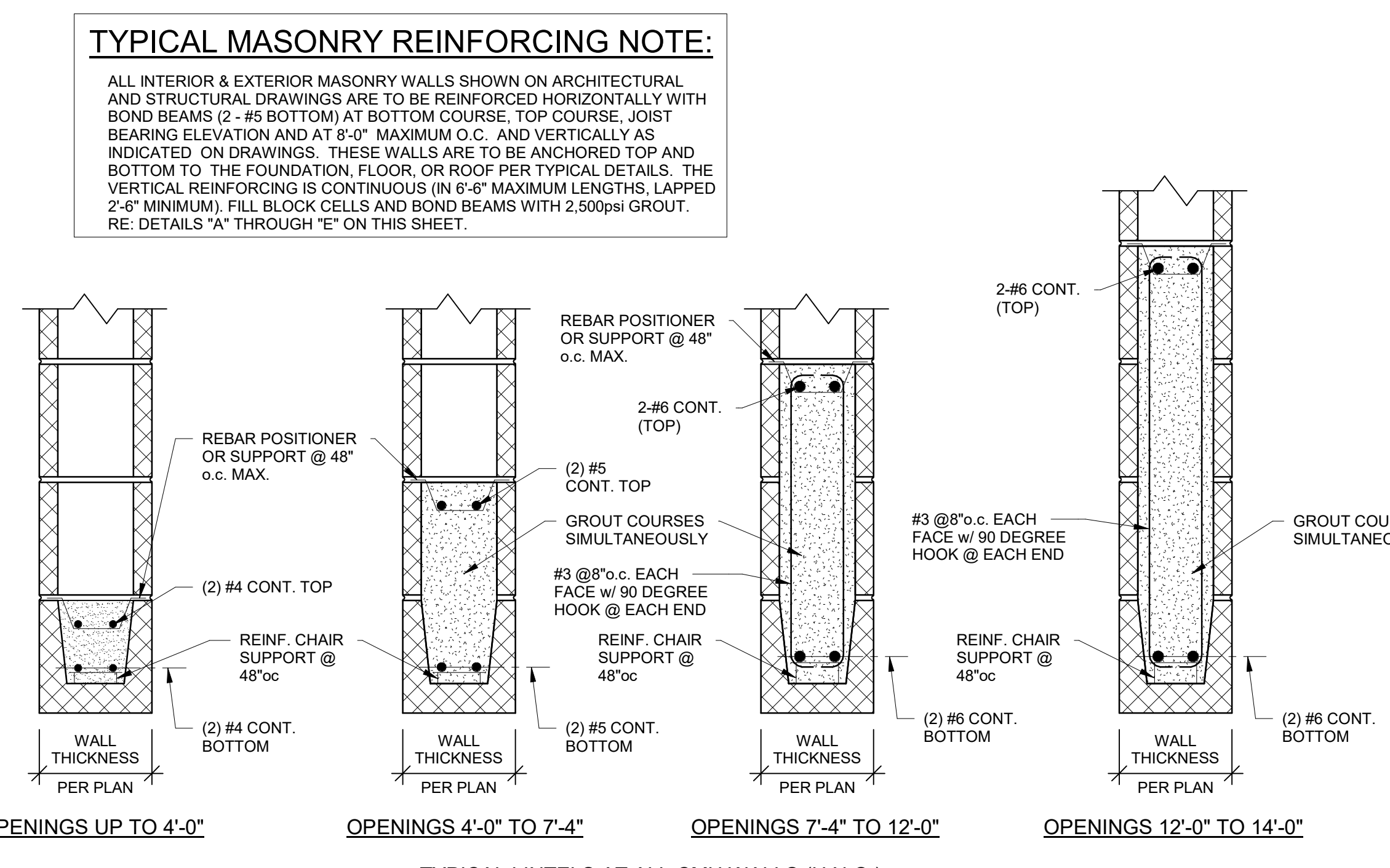
- IN ADDITION TO SPACING SHOWN IN SCHEDULE, VERTICAL REINFORCING SHALL BE PROVIDED IN GROUDED CELLS AT THE FOLLOWING LOCATIONS:
 - IN THE FIRST 2 CELLS ADJACENT TO EACH OPENING
 - IN THE END CELLS ON EACH SIDE OF VERTICAL CONTROL JOINTS
 - IN THE END CELLS OF EACH LENGTH OF WALL
 - AT EACH CORNER OF WALLS
- ALL MASONRY VOIDS AND BOND BEAMS TO BE GROUDED SHALL BE FREE OF DEBRIS AND MORTAR DROPPINGS PRIOR TO GROUING. ANY MASONRY w/ DROPPINGS OR DEBRIS OBSERVED IN VOIDS SHALL BE REJECTED.

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



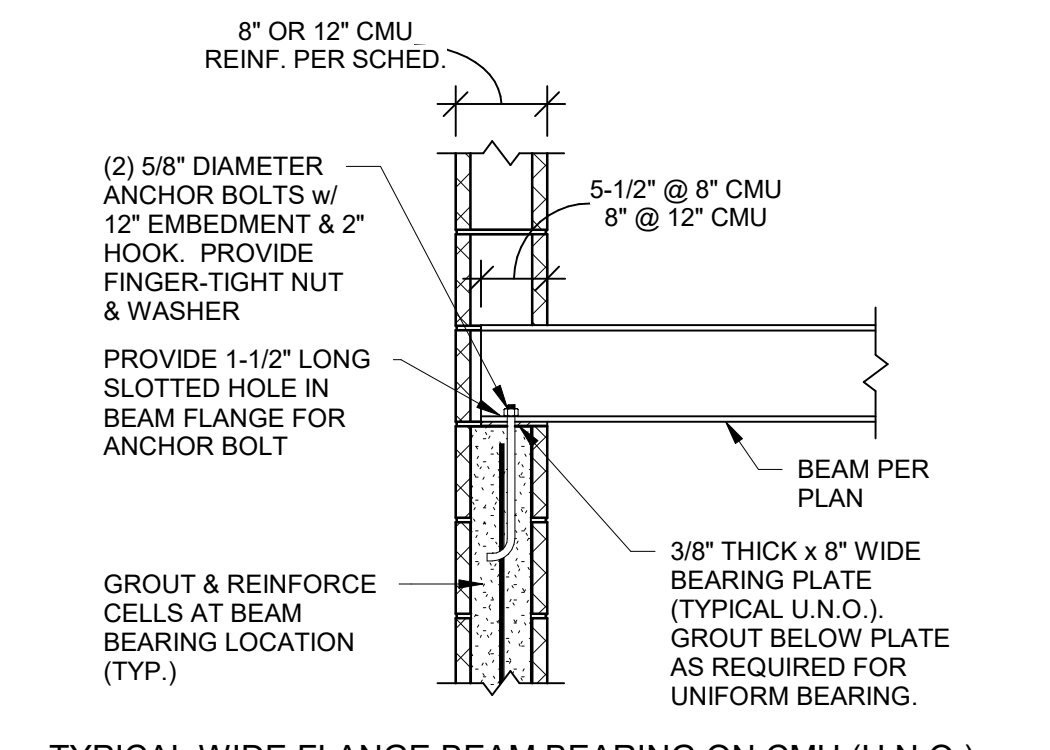
TYPICAL REBAR POSITIONING DETAIL

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



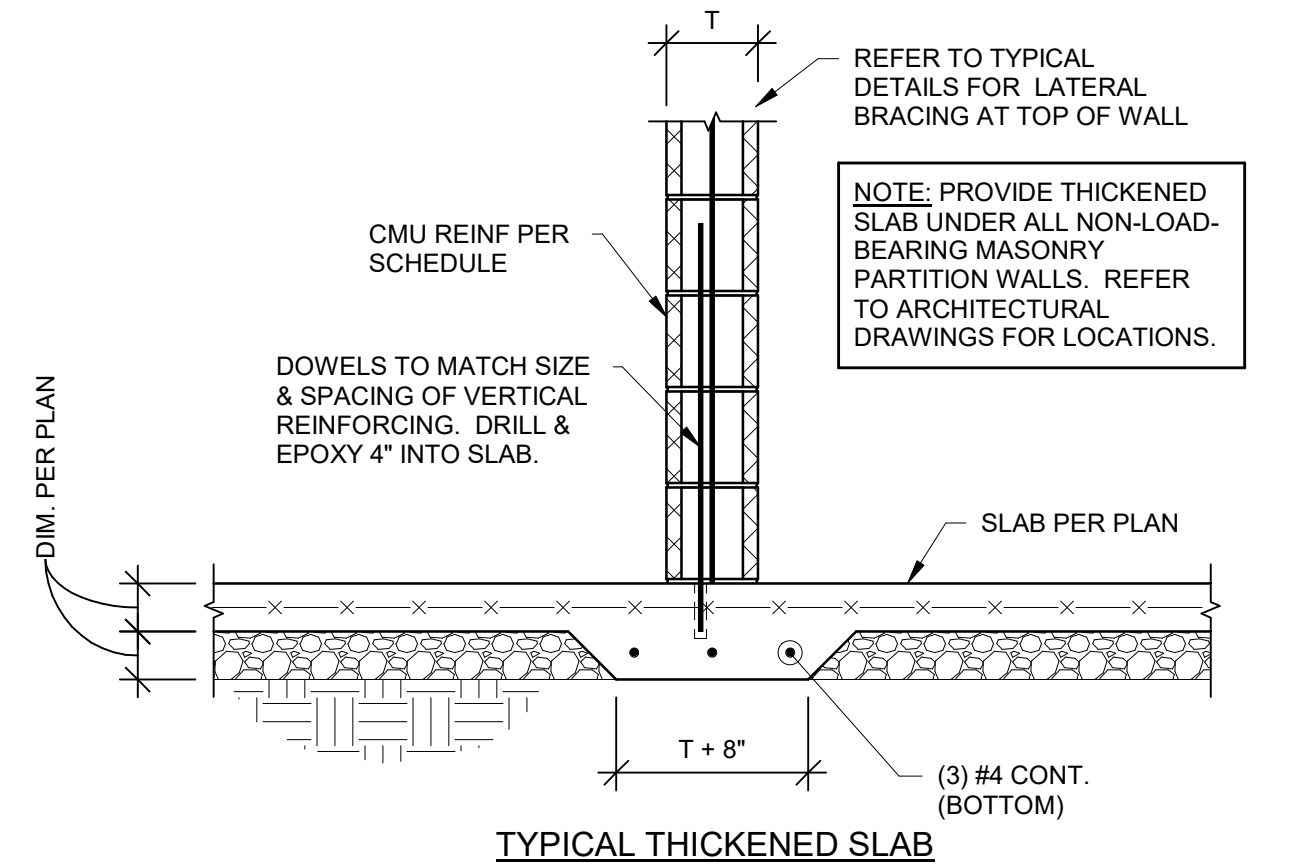
OPENINGS UP TO 4'-0" OPENINGS 4'-0" TO 7'-4" OPENINGS 7'-4" TO 12'-0" OPENINGS 12'-0" TO 14'-0"

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



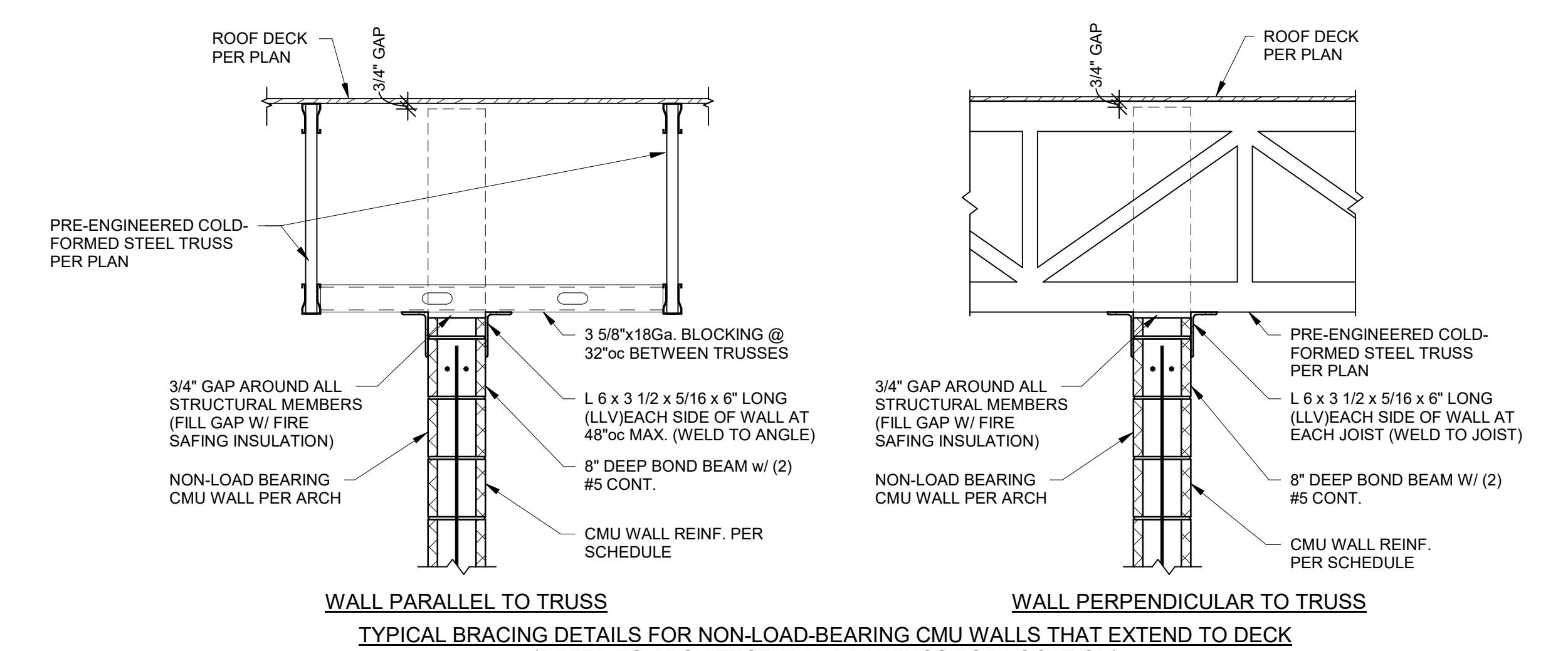
TYPICAL WIDE FLANGE BEAM BEARING ON CMU (U.N.O.)

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



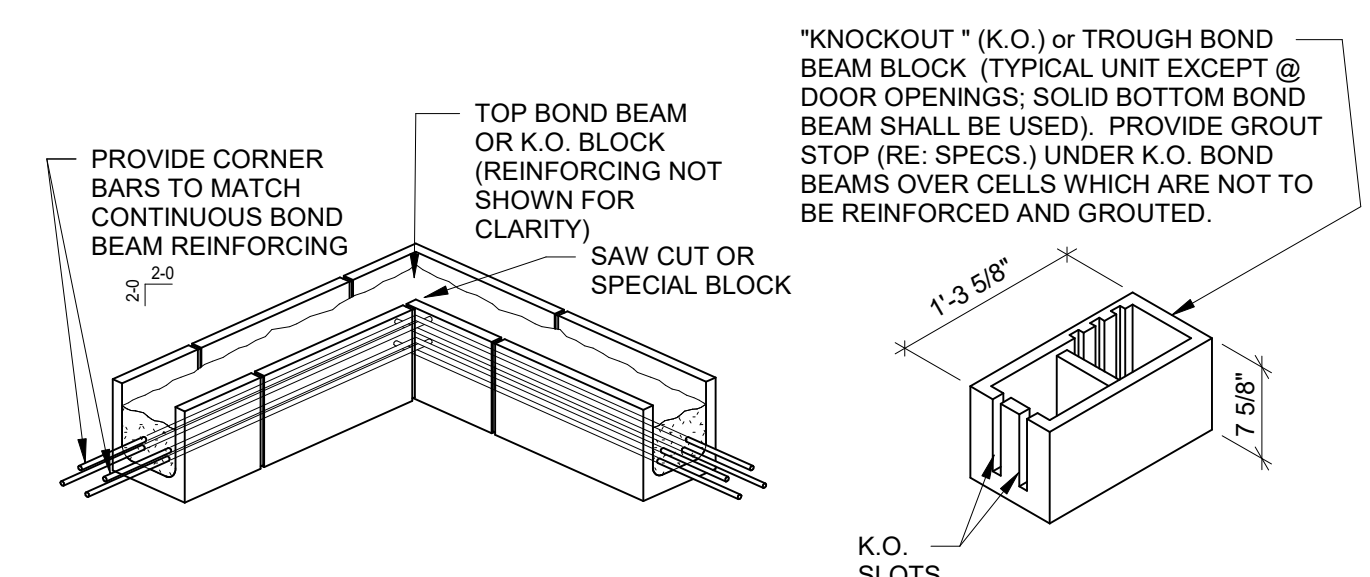
TYPICAL THICKENED SLAB (UNDER NON-LOAD-BEARING MASONRY)

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



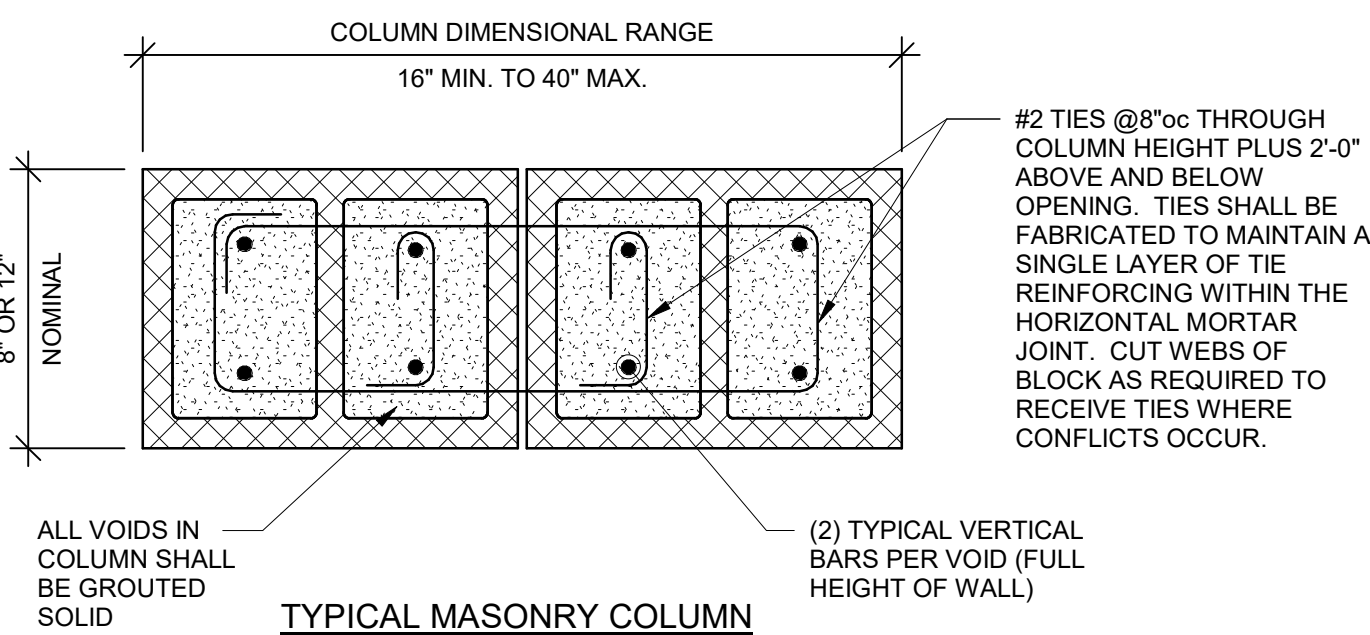
TYPICAL BRACING DETAILS FOR NON-LOAD-BEARING CMU WALLS THAT EXTEND TO DECK (REFER TO ARCHITECTURAL DRAWINGS FOR LOCATION)

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



TYPICAL BOND BEAM DETAIL AT CORNER OF CMU WALL

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



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



Kansas Certificate of Authority #A-516
CIVIL ENGINEER
KAW Valley Engineering
KS Certificate of Authority #29241
1627 Sunflower Lane
Salina, KS 67401
785-823-3400

Structural Engineer
Bob D. Campbell & Co.
KS Certificate of Authority #000442
4338 Bellview
Kansas City, MO 64111
816-778-7149

M/E/P Engineer
PKMR Engineers, Inc.
KS Certificate of Authority #E-200202086
13300 W. 98th St.
Lenexa, KS 66215
913-492-2400

JOB NUMBER 22003

SALINA FIRE STATION #4
EAST CRAWFORD STREET
& MARKLEY ROAD
SALINA, KS 67401
CITY OF SALINA
755 Minnesota Ave., Suite 662 Kansas City, Kansas 66101 Tel. 816.300.4101 Fax 816.300.4102



BID SET DOCUMENTS
ISSUE DATE 09/09/2024
No. Description Date

WSKF, Inc. © 2024

CMU DETAILS
S0.03



Kansas Certificate of Authority #A-516

CIVIL ENGINEER
KAW Valley Engineering
KS Certificate of Authority #29241
1627 Sunflower Lane
Salina, KS 67401
785-823-3400

Structural Engineer
Bob D. Campbell & Co.
KS Certificate of Authority #000442
4338 Bellview
Kansas City, MO 64111
816-778-7149

MEP Engineer
PKMR Engineers, Inc.
KS Certificate of Authority #E-2002020886
13300 W. 98th St.
Lenexa, KS 66215
913-492-2400

JOB NUMBER 22003

SALINA FIRE STATION #4
EAST CRAWFORD STREET
& MARKLEY ROAD
SALINA, KS 67401
CITY OF SALINA
755 Minnesota Ave., Suite 662 Kansas City, Kansas 66101 Tel: 816.300.4101 Fax: 816.300.4102



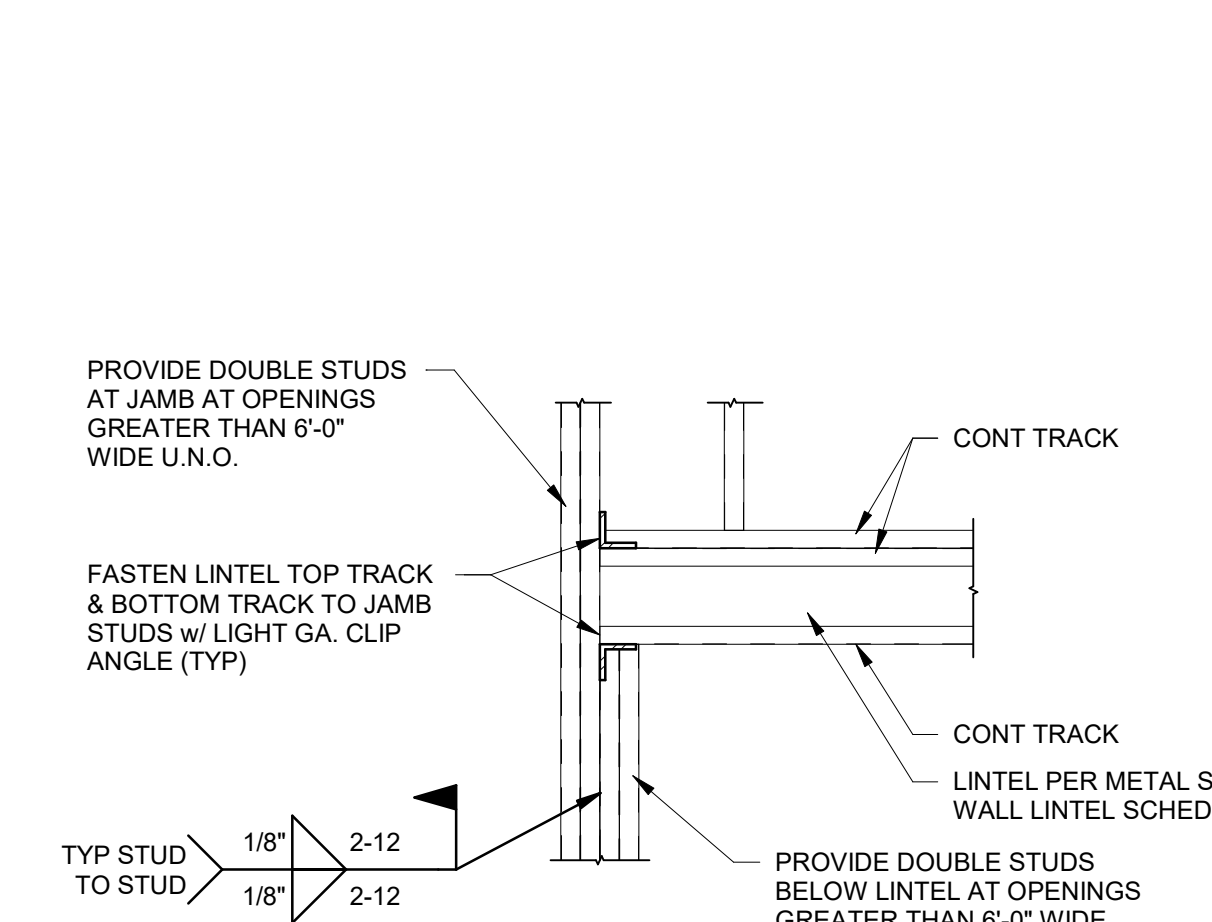
BID SET DOCUMENTS

ISSUE DATE 09/09/2024
No. Description Date

WSKF, Inc. © 2024

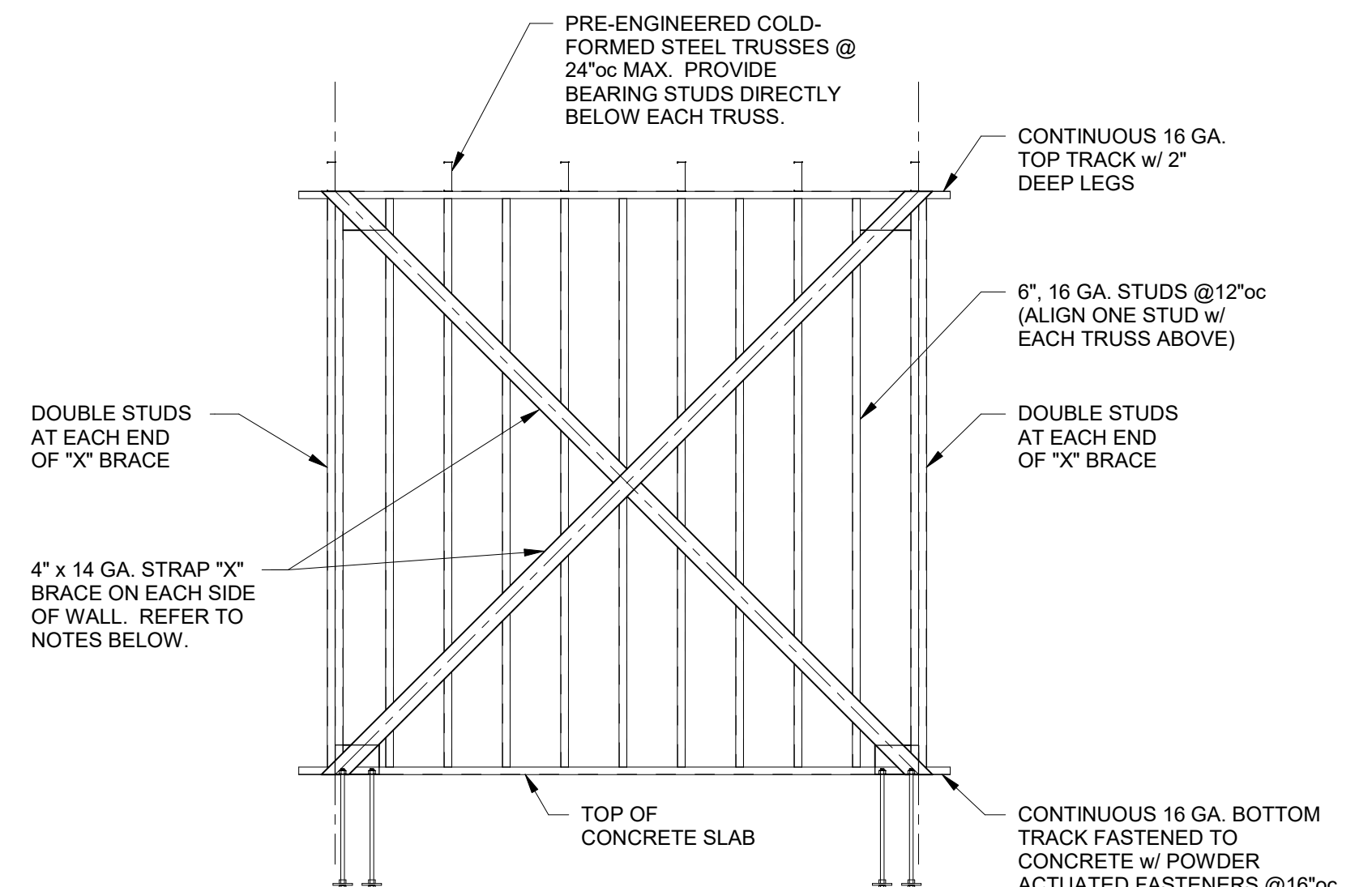
CFMF DETAILS

S0.04



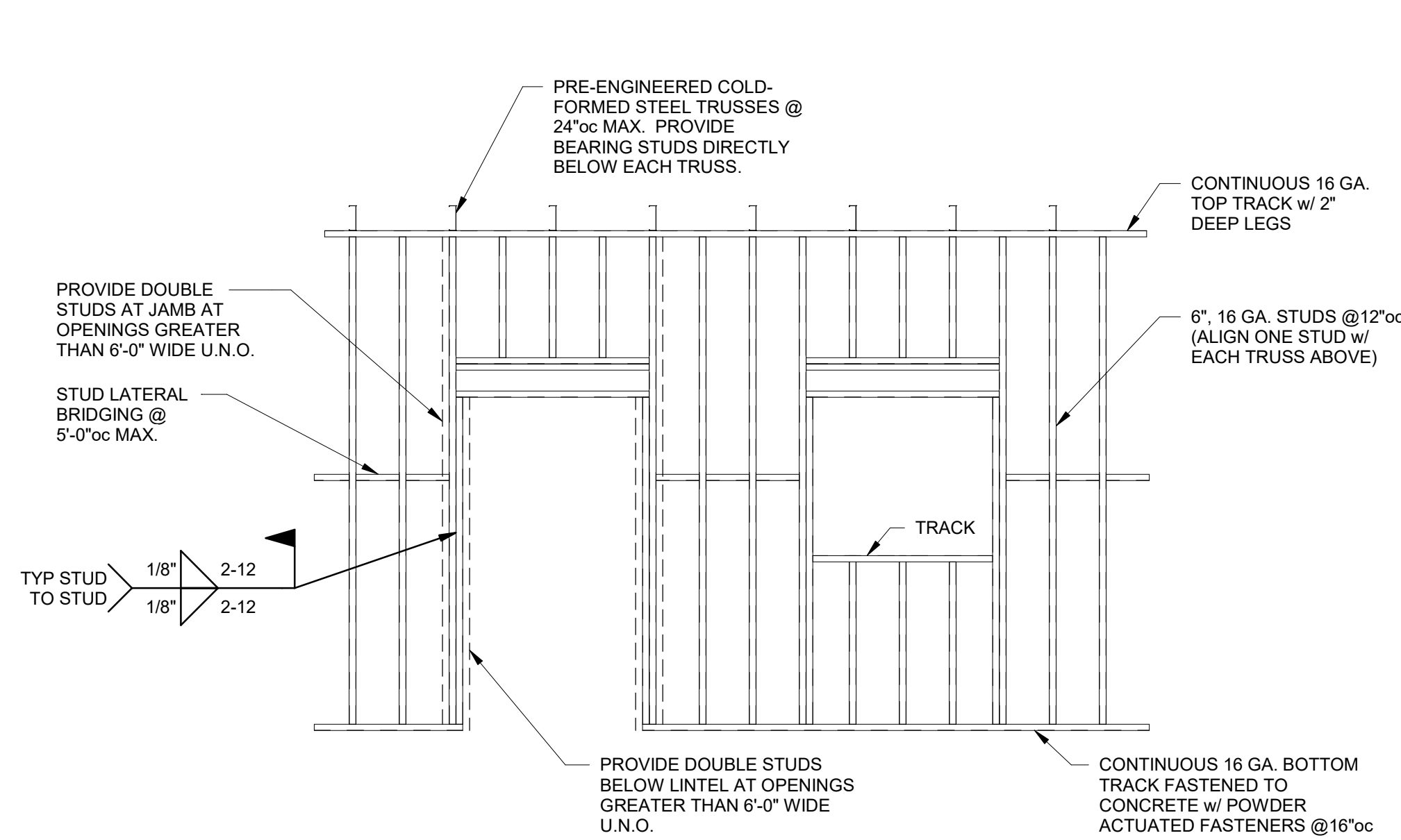
METAL STUD WALL LINTEL SCHEDULE

FOR OPENINGS	LINTEL
LESS THAN 6'-0"	(2) 8" DEEP x 16 GA. UNPUNCHED METAL STUDS w/ WEB STIFFENERS AT EACH END
6'-0" TO 10'-0"	(2) 10" DEEP x 14 GA. UNPUNCHED METAL STUDS w/ WEB STIFFENERS AT EACH END



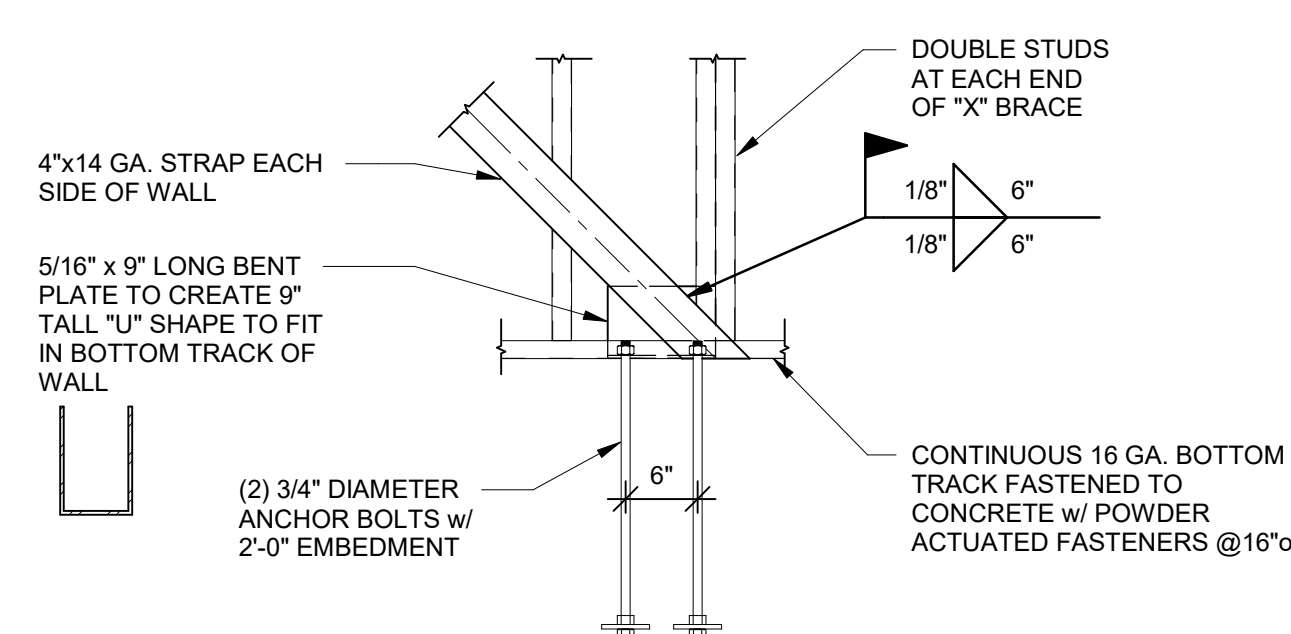
"X" BRACING NOTES:
1. "X" BRACING TO BE 4"x14 GA. STRAP BOTH SIDES OF WALL.
2. WELD STRAP TO EACH STUD WALL w/ 1/8" FILLET WELD TOP & BOTTOM (TYP.).
3. STRAPS SHALL BE CONTINUOUS w/ NO SPLICES.

2 ELEVATION
3/8" = 1'-0"

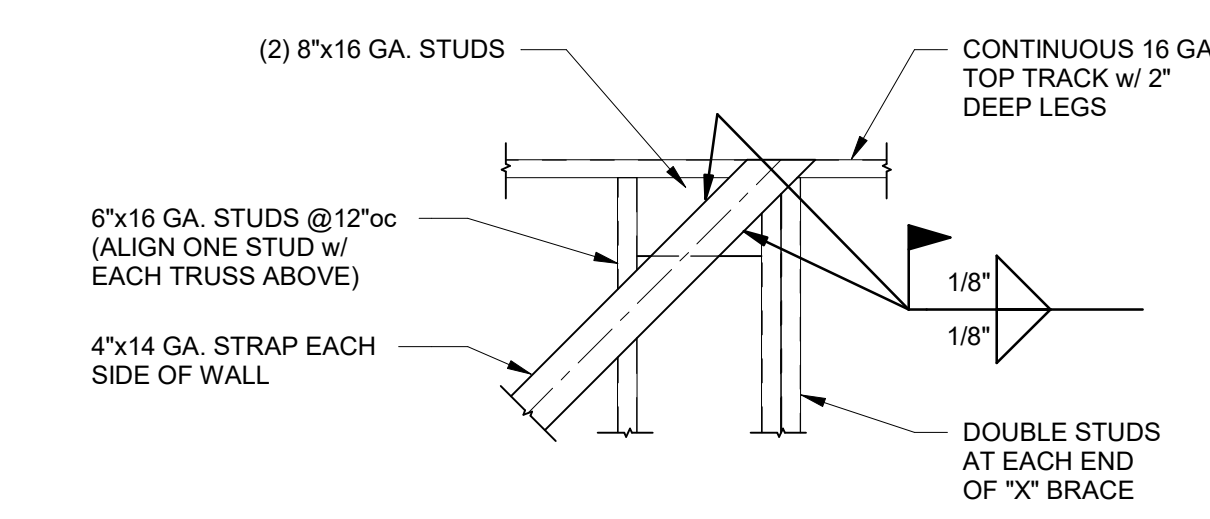


TYPICAL LOAD-BEARING METAL STUD WALL ELEVATION

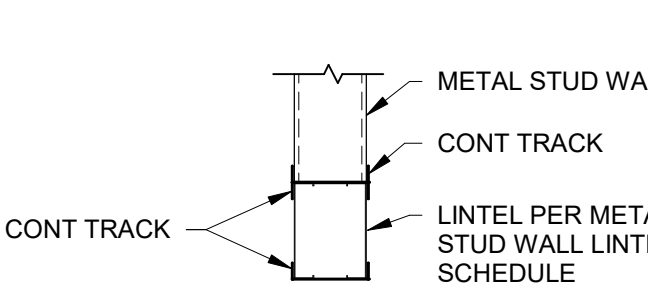
1 ELEVATION
3/8" = 1'-0"



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

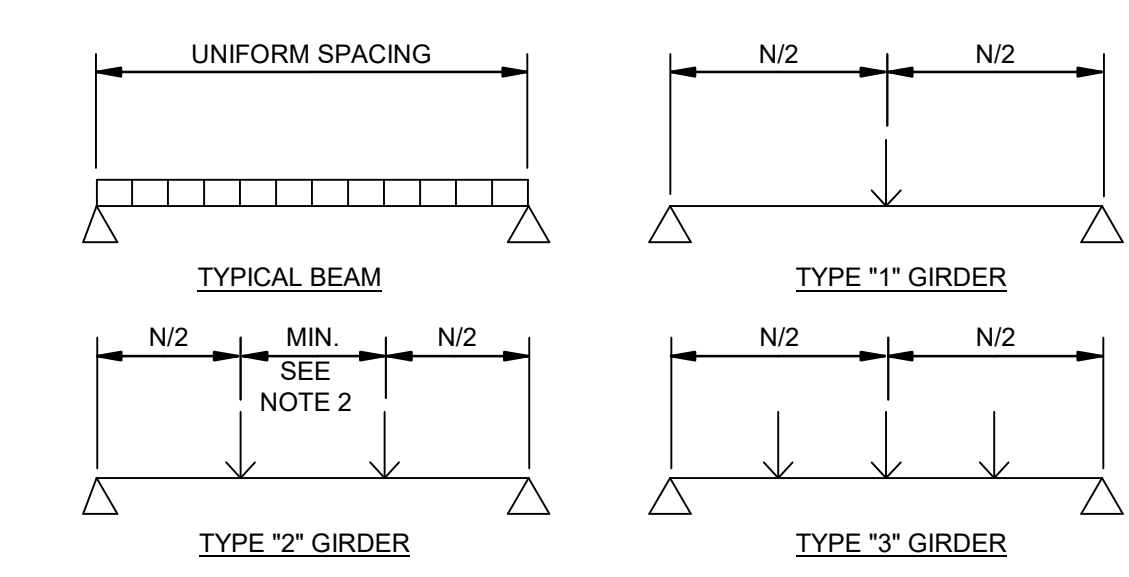
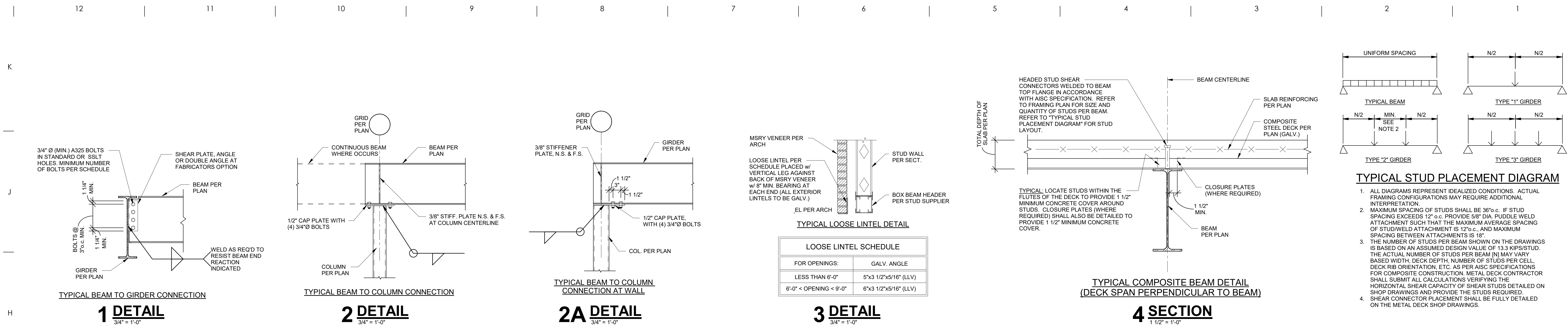


5 SECTION
3/4" = 1'-0"



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

9/9/2024 11:25:52 AM V:\W\1\WSKF Projects\Salina Fire Station 4\WSKF2303 Salina Fire Station 4 - R22_cboos-bdc.rvt

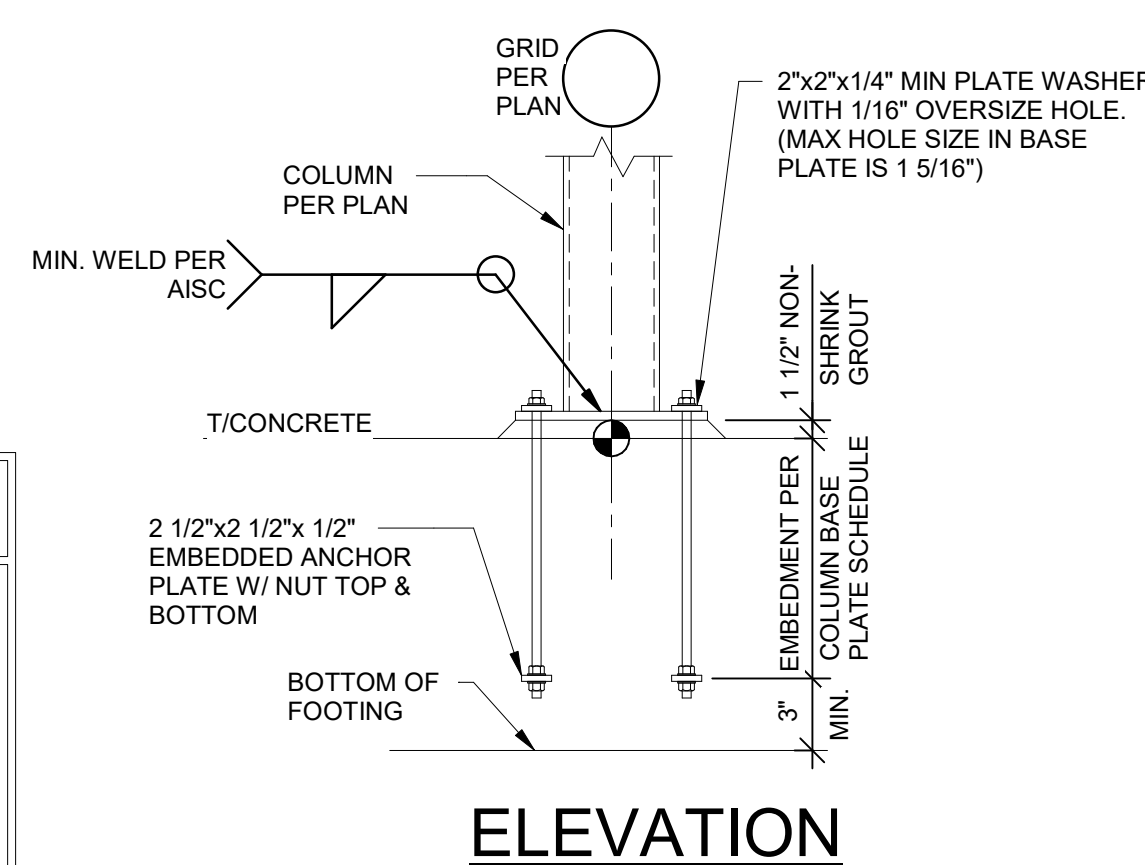
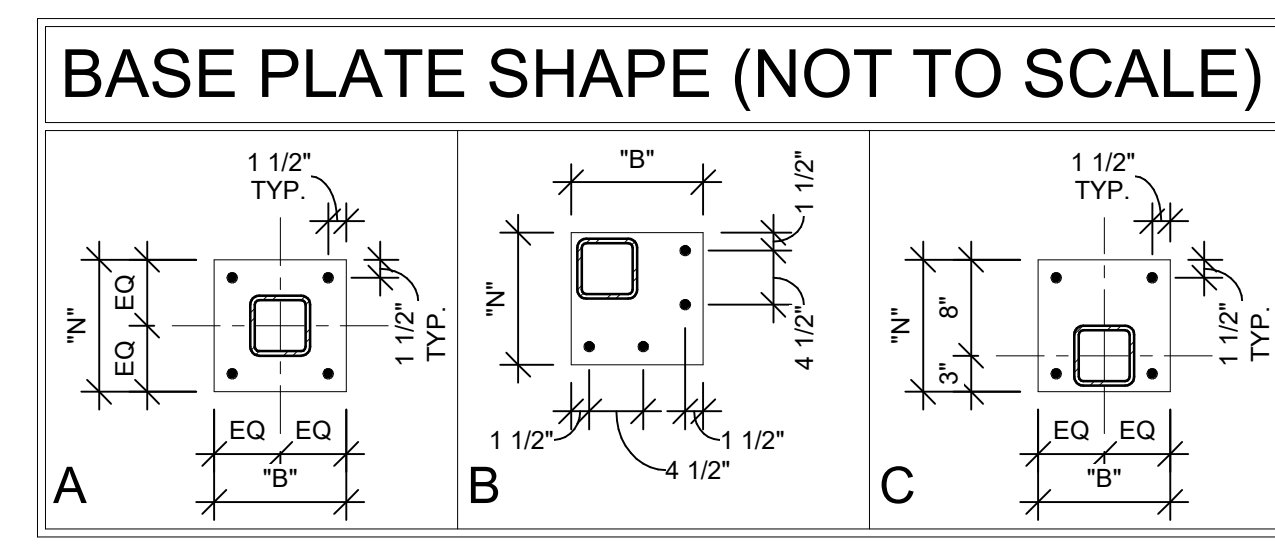


COLUMN BASE PLATE SCHEDULE

TYPE	COLUMN	BASE PLATE (bxB)	SHAPE	ANCHOR RODS	EMBEDMENT
1	PER PLAN	3/4"x11"x11"	A	4- 3/4" DIA.	12"
2	PER PLAN	3/4"x11"x11"	B	4- 3/4" DIA.	12"
3	PER PLAN	3/4"x11"x11"	C	4- 3/4" DIA.	12"

NOTES:

- SEE PLAN FOR ORIENTATION OF COLUMNS.
- PROVIDE PLATE WASHER & EMBEDDED PLATE PER SCHEDULE @ ALL ANCHOR BOLTS.
- U.N.O. ALL THREADED ROD A.B'S SHALL BE F1554 (36ksi) MATERIAL.



BEAM SHEAR CONNECTION SCHEDULE

BEAM SIZE	MINIMUM ROWS OF BOLTS	END REACTION (kips)(U.N.O.)
W12	2	16

- STEEL CONNECTION NOTES:**
- REFER TO GENERAL NOTES ON SHEET S0.01.
 - 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.
 - CLIP ANGLES MAY BE SHOP WELDED TO BEAM WEB PER AISC.
 - PROVIDE ASTM A490 BOLTS IF REQUIRED TO MEET END REACTION LOAD REQUIREMENTS.
 - ALL END REACTIONS INDICATED ARE UNFACTORED (ASD) LOADS.

WSKF ARCHITECTS

Kansas Certificate of Authority #A-516

CIVIL ENGINEER
Bob D. Campbell & Co.
KS Certificate of Authority #29241
1627 Sunflower Lane
Salina, KS 67401
785-823-3400

Structural Engineer
KAW Valley Engineering
KS Certificate of Authority #29241
4338 Bellview
Kansas City, MO 64111
816-778-7149

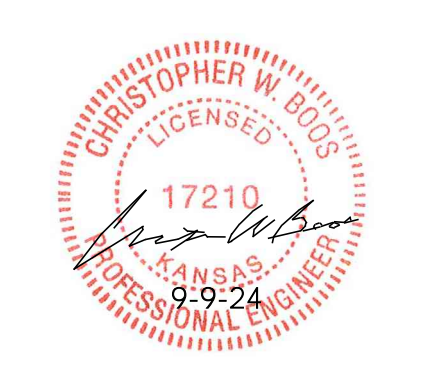
M/E/P Engineer
PKMR Engineers, Inc.
KS Certificate of Authority #E-2002020886
13300 W. 98th St.
Lenexa, KS 66215
913-492-2400

JOB NUMBER 22003

SALINA FIRE STATION #4

EAST CRAWFORD STREET & MARKLEY ROAD
SALINA, KS 67401
CITY OF SALINA

755 Minnesota Ave., Suite 662 Kansas City, Kansas 66101 Tel. 816.300.4101 Fax 816.300.4102



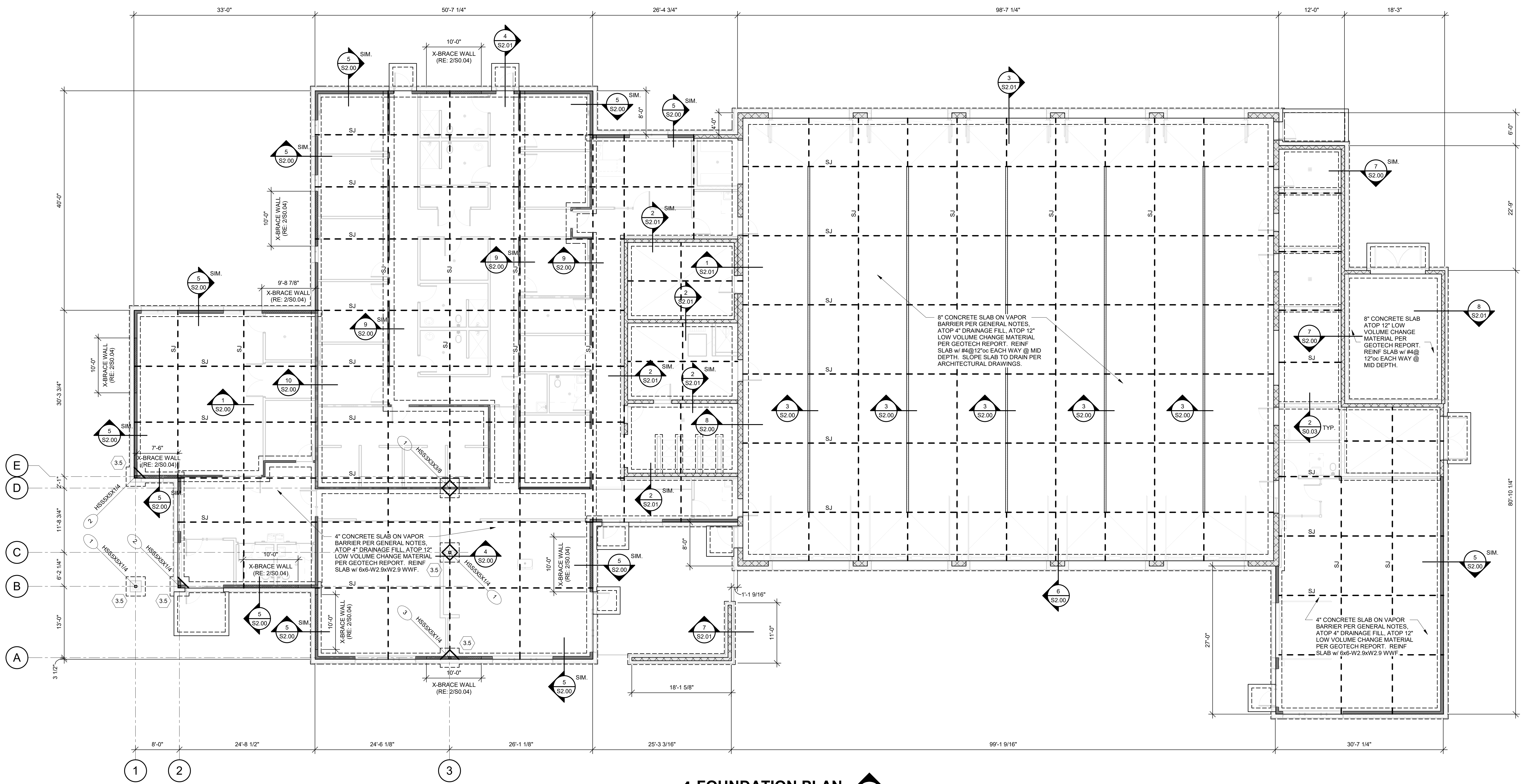
BID SET DOCUMENTS

ISSUE DATE	09/09/2024
No. Description	Date

WSKF, Inc. © 2024

STEEL DETAILS & SCHEDULES

S0.05



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

- NOTES:
1. REFER TO GENERAL NOTES ON SHEET S0.01.
2. VERIFY ALL DIMENSIONS & ELEVATIONS w/ ARCHITECTURAL DRAWINGS.
3. REFER TO TYPICAL CMU DETAILS ON SHEET S0.03.
4. REFER TO TYPICAL COLDFORMED METAL FRAMING DETAILS ON SHEET S0.04.
5. REFER TO TYPICAL STEEL DETAILS ON SHEET S0.05.
6. TOP OF FOOTING ELEVATION = 39'-4" TYP. UNO.
7. SLOPE SLABS TO DRAIN (RE: ARCHITECTURAL DRAWINGS).

Structural Foundation Schedule

NOTE:
1.) EXTERIOR FOOTINGS OR FOOTING AT GRADE BEAM SHALL MATCH GRADE BEAM DEPTH AND BE PLACED WITH GRADE BEAM. PROVIDE SPECIFIED REBAR TOP AND BOTTOM WITH 4 STANDEES TO SUPPORT MATS.
2.) PROVIDE REINFORCING PER SCHEDULE EACH WAY IN TOP OF FTG. AT ALL MOMENT FRAME AND BRACED BAY COLUMNS.
3.) CENTER FOOTINGS ON COLUMNS AND/OR WALL CENTER LINES PER PLAN UNLESS NOTED OTHERWISE (U.N.O.).

Type Mark	Length	Width	Footing Thickness	Bottom Bars	Quantity (E.W. Bott)
3.5	3'-6"	3'-6"	3'-0"	Rebar : # 5	7

2 TRASH ENCLOSURE FOUNDATION PLAN
1/8" = 1'-0"

3 MONUMENT SIGN FOUNDATION PLAN
1/8" = 1'-0"

9/9/2024 11:26:03 AM V:\W\1\WSKF Projects\22003 Salina Fire Station 4\WSKF22003 Salina Fire Station 4 - R22_cboos-bdc.rvt



BID SET DOCUMENTS

ISSUE DATE 09/09/2024
No. Description Date

WSKF, Inc. © 2024

FOUNDATION PLAN
S1.00

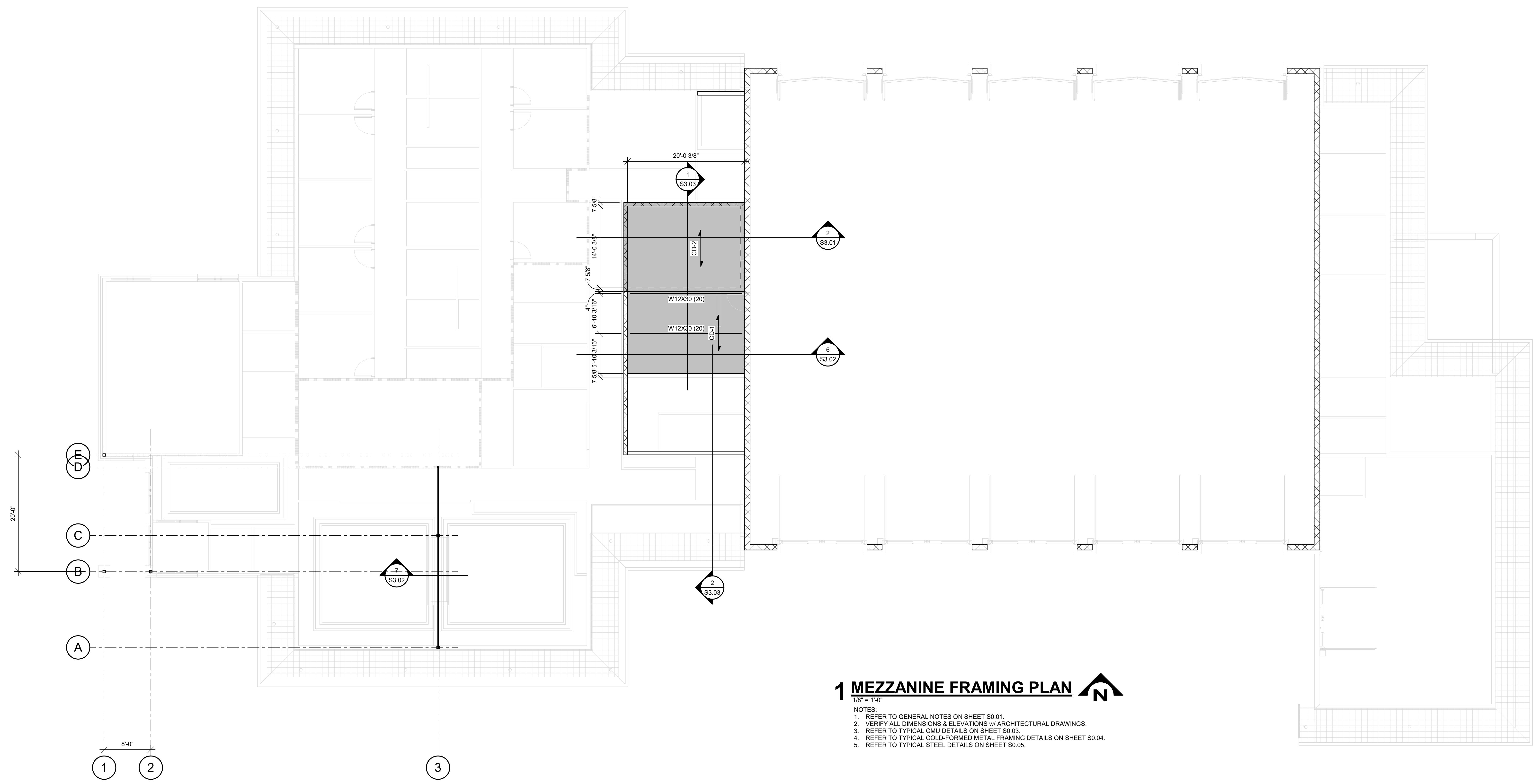


Kansas Certificate of Authority #A-516
CIVIL ENGINEER
KAW Valley Engineering
KS Certificate of Authority #29241
1627 Sunflower Lane
Salina, KS 67401
785-823-3400

Structural Engineer
Bob D. Campbell & Co.
KS Certificate of Authority #000442
4338 Bellview
Kansas City, MO 64111
816-778-7149

MEP Engineer
PKMR Engineers, Inc.
KS Certificate of Authority #E-2002020886
13300 W. 98th St.
Lenexa, KS 66215
913-492-2400

JOB NUMBER 22003



1 MEZZANINE FRAMING PLAN

- 1"8" = 1'-0"
- NOTES:
1. REFER TO GENERAL NOTES ON SHEET S0.01.
 2. VERIFY ALL DIMENSIONS & ELEVATIONS w/ ARCHITECTURAL DRAWINGS.
 3. REFER TO TYPICAL CMU DETAILS ON SHEET S0.03.
 4. REFER TO TYPICAL COLD-FORMED METAL FRAMING DETAILS ON SHEET S0.04.
 5. REFER TO TYPICAL STEEL DETAILS ON SHEET S0.05.

9/9/2024 11:26:03 AM
V:\W\A\WSKF Projects\Salina Fire Station 4\WSKF2303_Salina Fire Station 4 - R22_cboos-bdc.rvt

SALINA FIRE STATION #4
EAST CRAWFORD STREET
& MARKLEY ROAD
SALINA, KS 67401
CITY OF SALINA
756 Minnesota Ave., Suite 662 Kansas City, Kansas 66101 Tel: 816.300.4101 Fax: 816.300.4102



BID SET DOCUMENTS

ISSUE DATE	09/09/2024
No. Description	Date

WSKF, Inc. © 2024

MEZZANINE FRAMING PLAN

S1.01



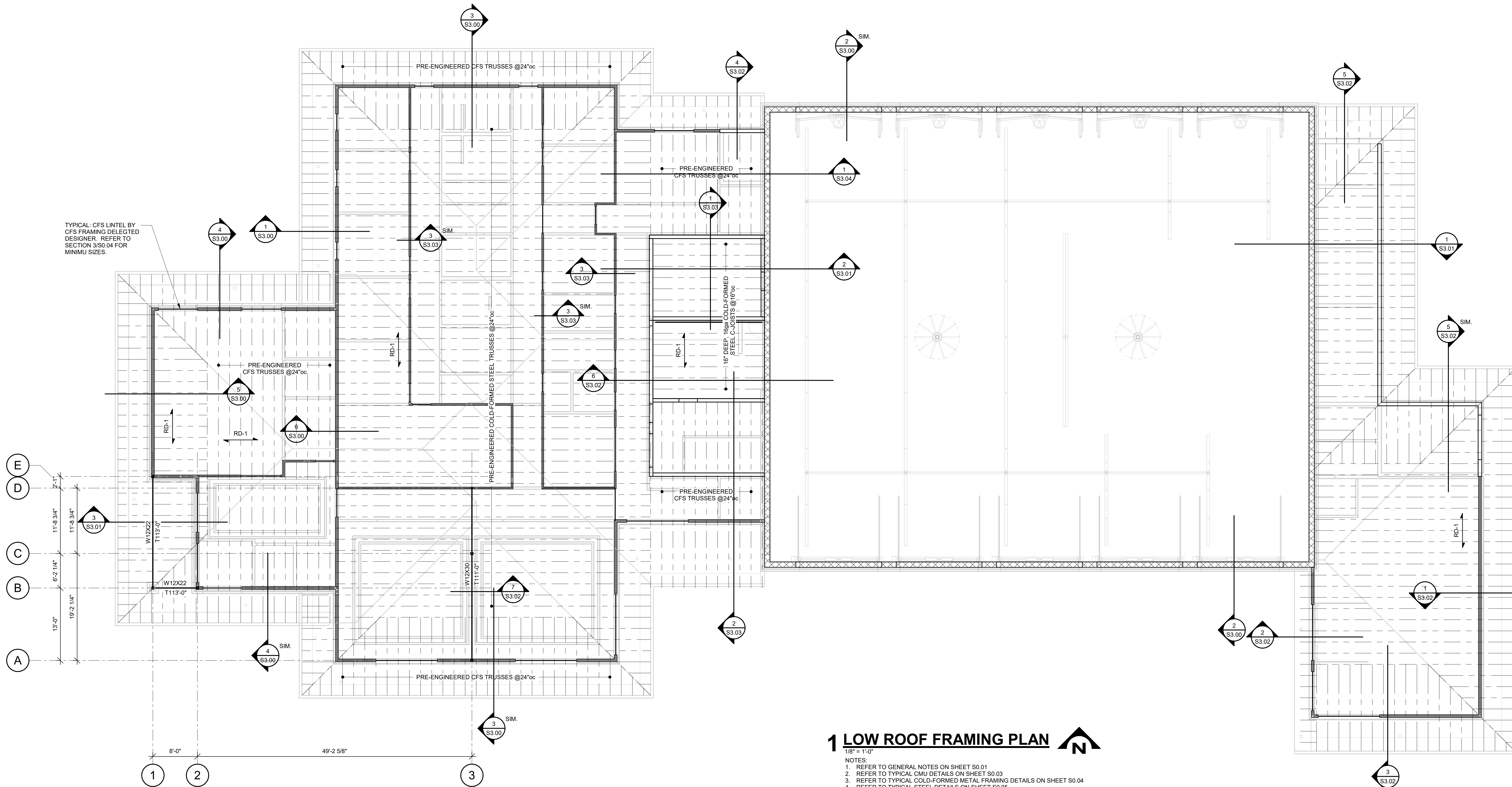
Kansas Certificate of Authority #A-516

CIVIL ENGINEER
KAW Valley Engineering
KS Certificate of Authority #29241
1627 Sunflower Lane
Salina, KS 67401
785-823-3400

Structural Engineer
Bob D. Campbell & Co.
KS Certificate of Authority #000442
4338 Bellview
Kansas City, MO 64111
816-778-7149

MEP Engineer
PKMR Engineers, Inc.
KS Certificate of Authority #E-2002020886
13300 W. 98th St.
Lenexa, KS 66215
913-492-2400

JOB NUMBER 22003



1 LOW ROOF FRAMING PLAN

- 1/8" = 1'-0"
- NOTES:
- REFER TO GENERAL NOTES ON SHEET S0.01
 - REFER TO TYPICAL CMU DETAILS ON SHEET S0.03
 - REFER TO TYPICAL COLD-FORMED METAL FRAMING DETAILS ON SHEET S0.04
 - REFER TO TYPICAL STEEL DETAILS ON SHEET S0.05
 - VERIFY ALL DIMENSIONS AND ELEVATIONS WITH ARCHITECTURAL DRAWINGS.
 - THE TRUSS LAYOUT DEPICTED ON THE FRAMING PLAN IS SHOWN FOR SCHEMATIC PURPOSES. THE TRUSS SUPPLIER SHALL BE RESPONSIBLE FOR THE FINAL LAYOUT WHILE COMPLYING WITH THE STRUCTURAL DETAILS AND UTILIZING THE LOAD-BEARING ELEMENTS INDICATED ON THE DRAWINGS.
 - COORDINATE TRUSS LAYOUT WITH PLUMBING AND DUCTWORK. ACCOUNT FOR VERTICAL AND HORIZONTAL ROUTING AS REQUIRED.

SALINA FIRE STATION #4
EAST CRAWFORD STREET
& MARKLEY ROAD
SALINA, KS 67401
CITY OF SALINA
756 Minnesota Ave., Suite 662 Kansas City, Kansas 66101 Tel: 816.300.4101 Fax: 816.300.4102



BID SET DOCUMENTS

ISSUE DATE	09/09/2024
No. Description	Date

WSKF, Inc. © 2024

LOW ROOF FRAMING PLAN
S1.02



CIVIL ENGINEER
KAW Valley Engineering
KS Certificate of Authority #29241
1627 Sunflower Lane
Salina, KS 67401
785-823-3400

Structural Engineer
Bob D. Campbell & Co.
KS Certificate of Authority
#000442
4338 Bellview
Kansas City, MO 64111
816-778-7149

MEP Engineer
PKMR Engineers, Inc.
KS Certificate of Authority
#E-2002020886
13300 W. 98th St.
Lenexa, KS 66215
913-492-2400

JOB NUMBER 22003

SALINA FIRE STATION #4
EAST CRAWFORD STREET
& MARKLEY ROAD
SALINA, KS 67401
CITY OF SALINA
755 Minnesota Ave., Suite 662 Kansas City, Kansas 66101 Tel. 816.300.4101 Fax 816.300.4102



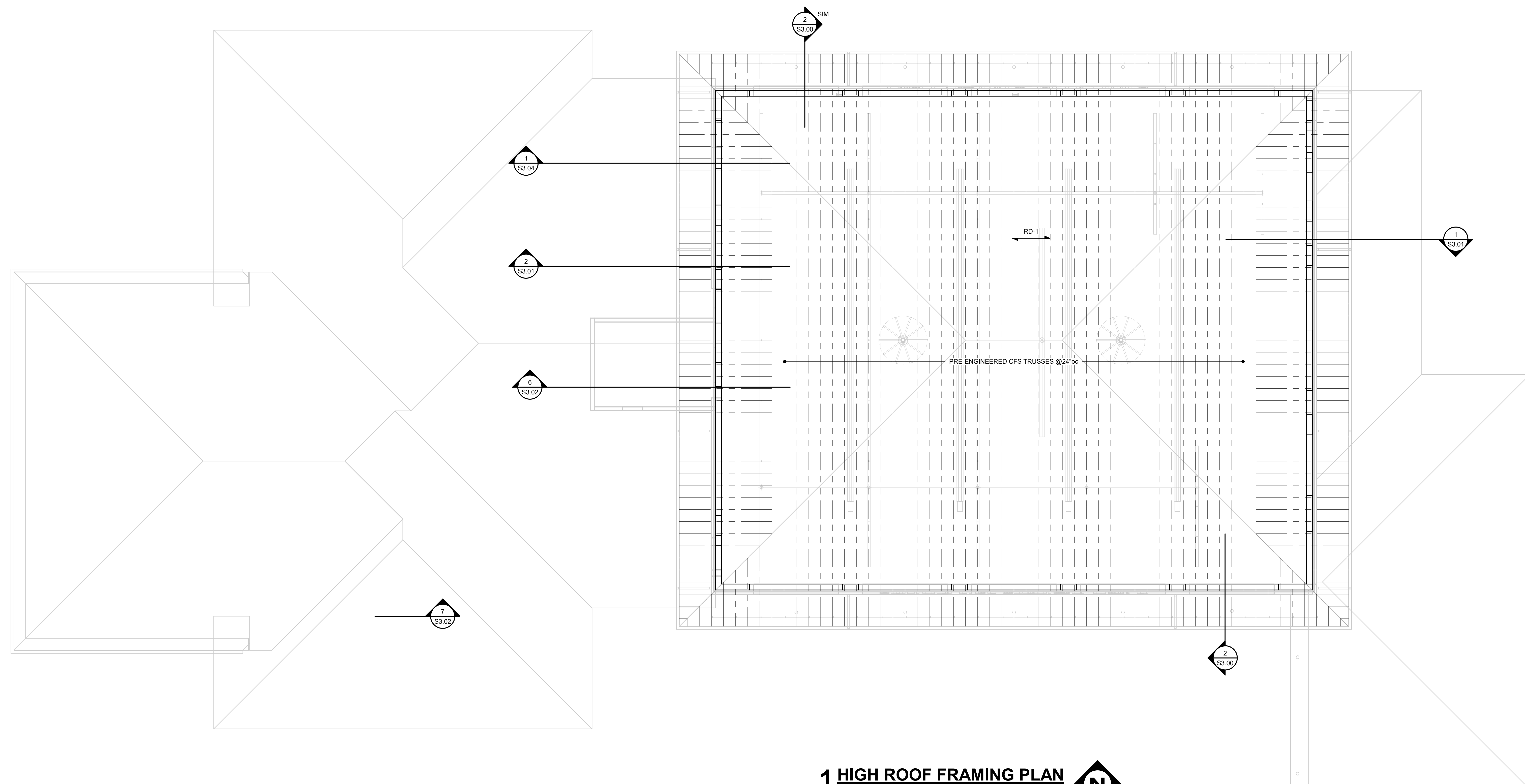
BID SET DOCUMENTS

ISSUE DATE	09/09/2024
No. Description	Date

WSKF, Inc. © 2024

HIGH ROOF FRAMING PLAN

S1.03



1 HIGH ROOF FRAMING PLAN

1/8" = 1'-0"

N

- NOTES:
1. REFER TO GENERAL NOTES ON SHEET S0.01
 2. REFER TO TYPICAL CMU DETAILS ON SHEET S0.03
 3. REFER TO TYPICAL COLD-FORMED METAL FRAMING DETAILS ON SHEET S0.04
 4. REFER TO TYPICAL STEEL DETAILS ON SHEET S0.05
 5. VERIFY ALL DIMENSIONS AND ELEVATIONS WITH ARCHITECTURAL DRAWINGS.
 6. THE TRUSS LAYOUT DEPICTED ON THE FRAMING PLAN IS SHOWN FOR SCHEMATIC PURPOSES. THE TRUSS SUPPLIER SHALL BE RESPONSIBLE FOR THE FINAL LAYOUT WHILE COMPLYING WITH THE STRUCTURAL DETAILS AND UTILIZING THE LOAD-BEARING ELEMENTS INDICATED ON THE DRAWINGS.
 7. COORDINATE TRUSS LAYOUT WITH PLUMBING AND DUCTWORK. ACCOUNT FOR VERTICAL AND HORIZONTAL ROUTING AS REQUIRED.



Kansas Certificate of Authority #A-516
 CIVIL ENGINEER
 KAW Valley Engineering
 KS Certificate of Authority #29241
 1627 Sunflower Lane
 Salina, KS 67401
 785-823-3400

Structural Engineer
 Bob D. Campbell & Co.
 KS Certificate of Authority #000442
 4338 Bellview
 Kansas City, MO 64111
 816-778-7149

M/E/P Engineer
 PKMR Engineers, Inc.
 KS Certificate of Authority #E-2002020886
 13300 W. 98th St.
 Lenexa, KS 66215
 913-492-2400

JOB NUMBER 22003

SALINA FIRE STATION #4
 EAST CRAWFORD STREET
 & MARKLEY ROAD
 SALINA, KS 67401
 CITY OF SALINA
 755 Minnesota Ave., Suite 662 Kansas City, Kansas 66101 Tel. 816.300.4101 Fax 816.300.4102

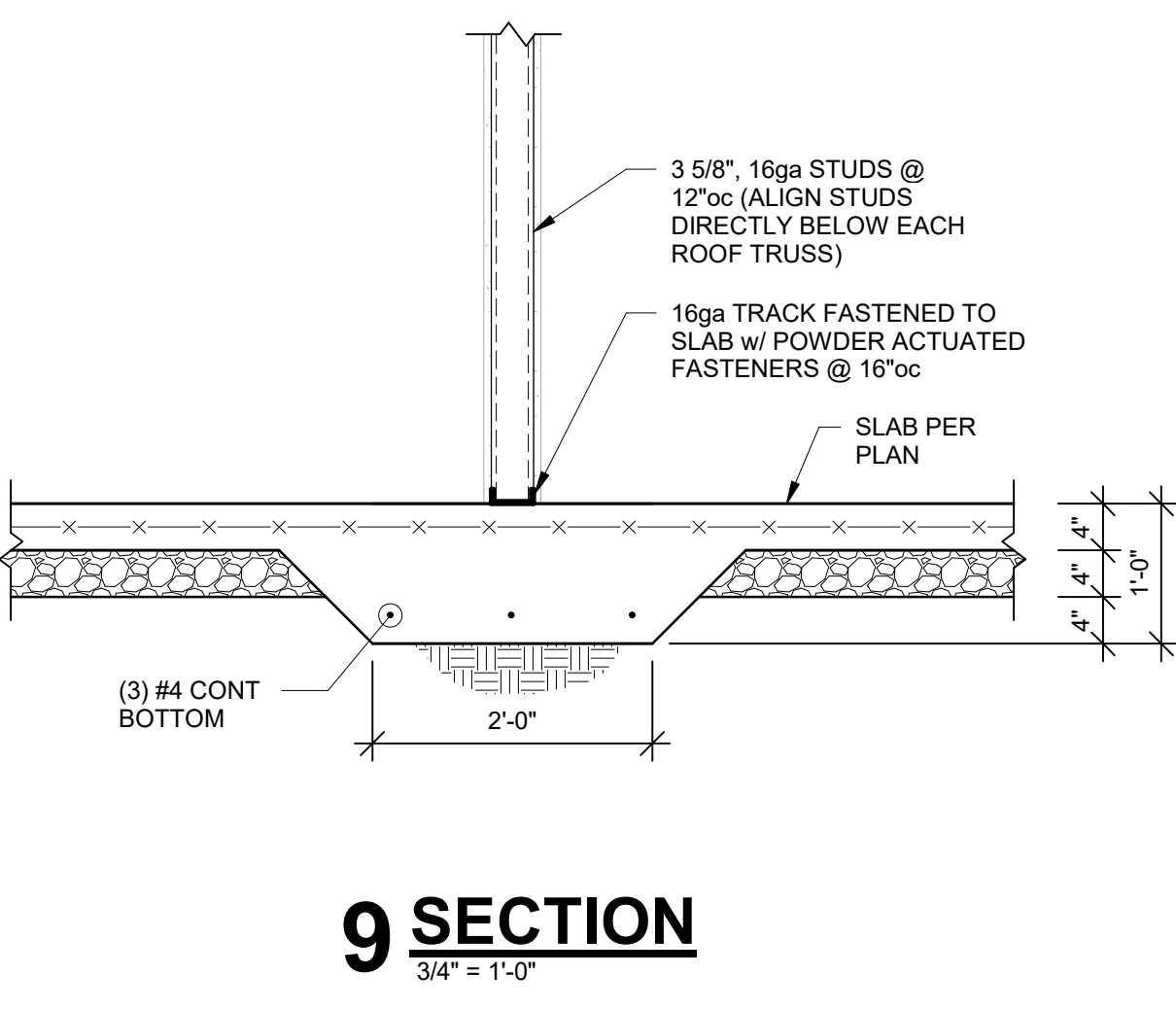
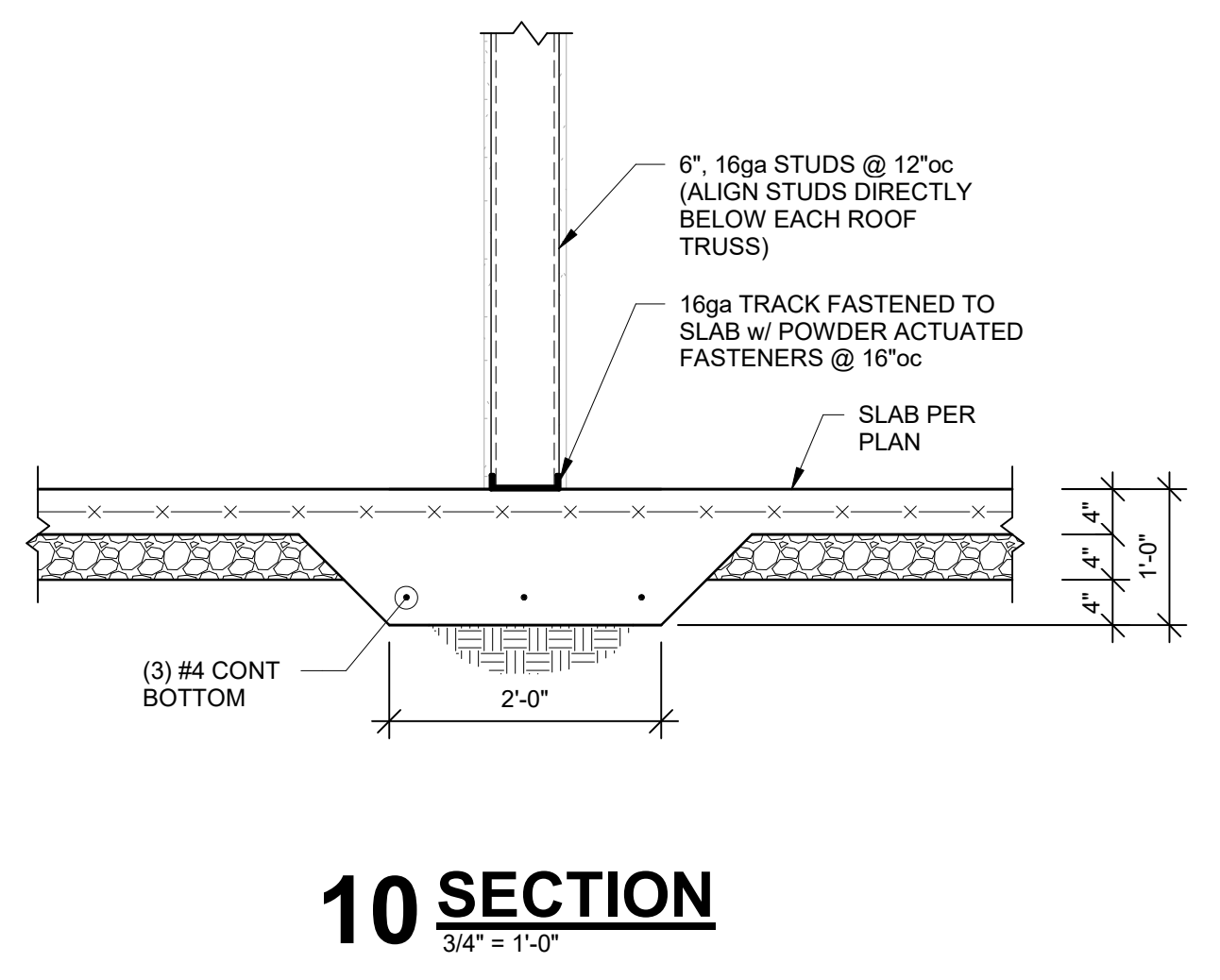
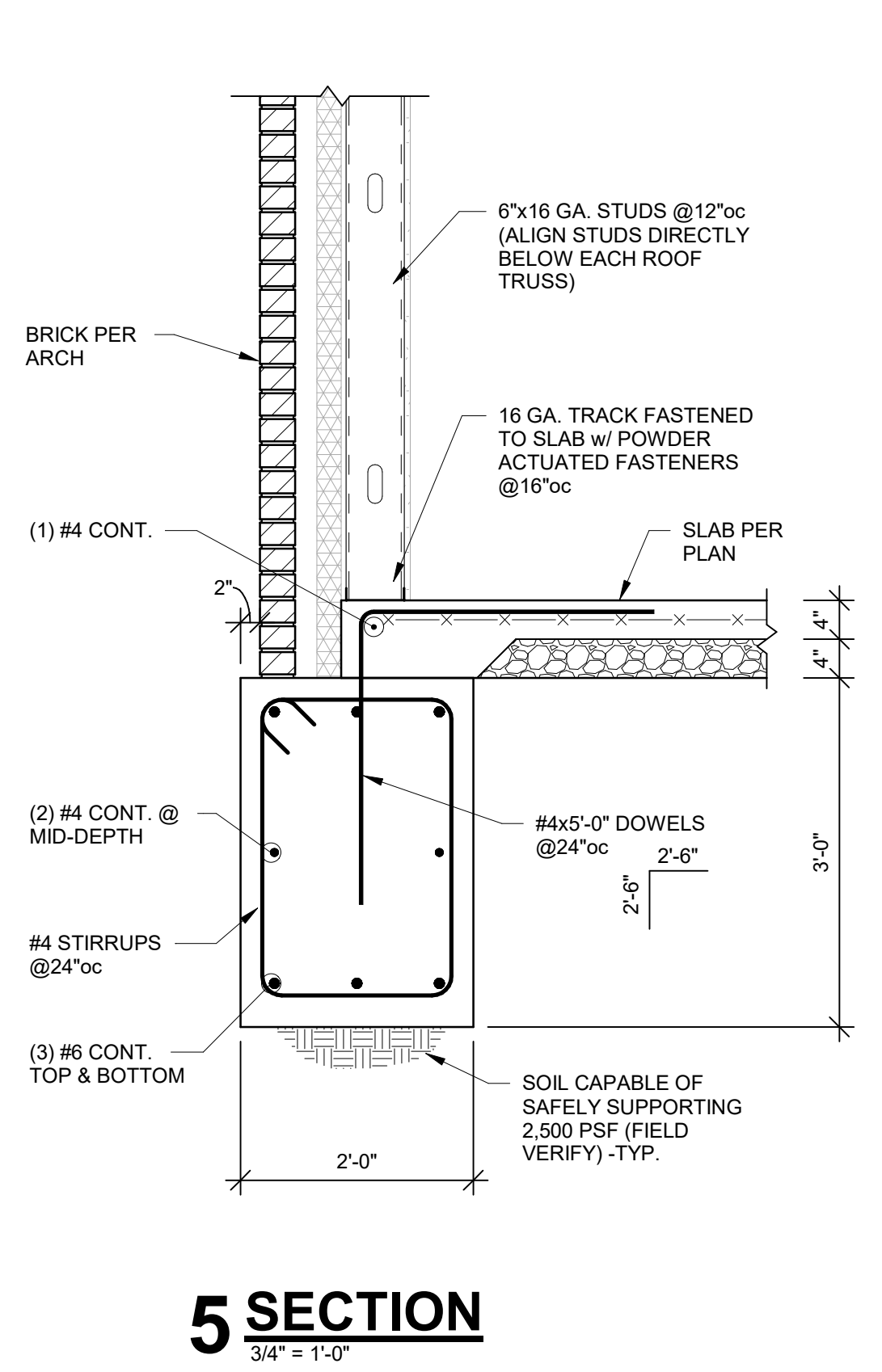
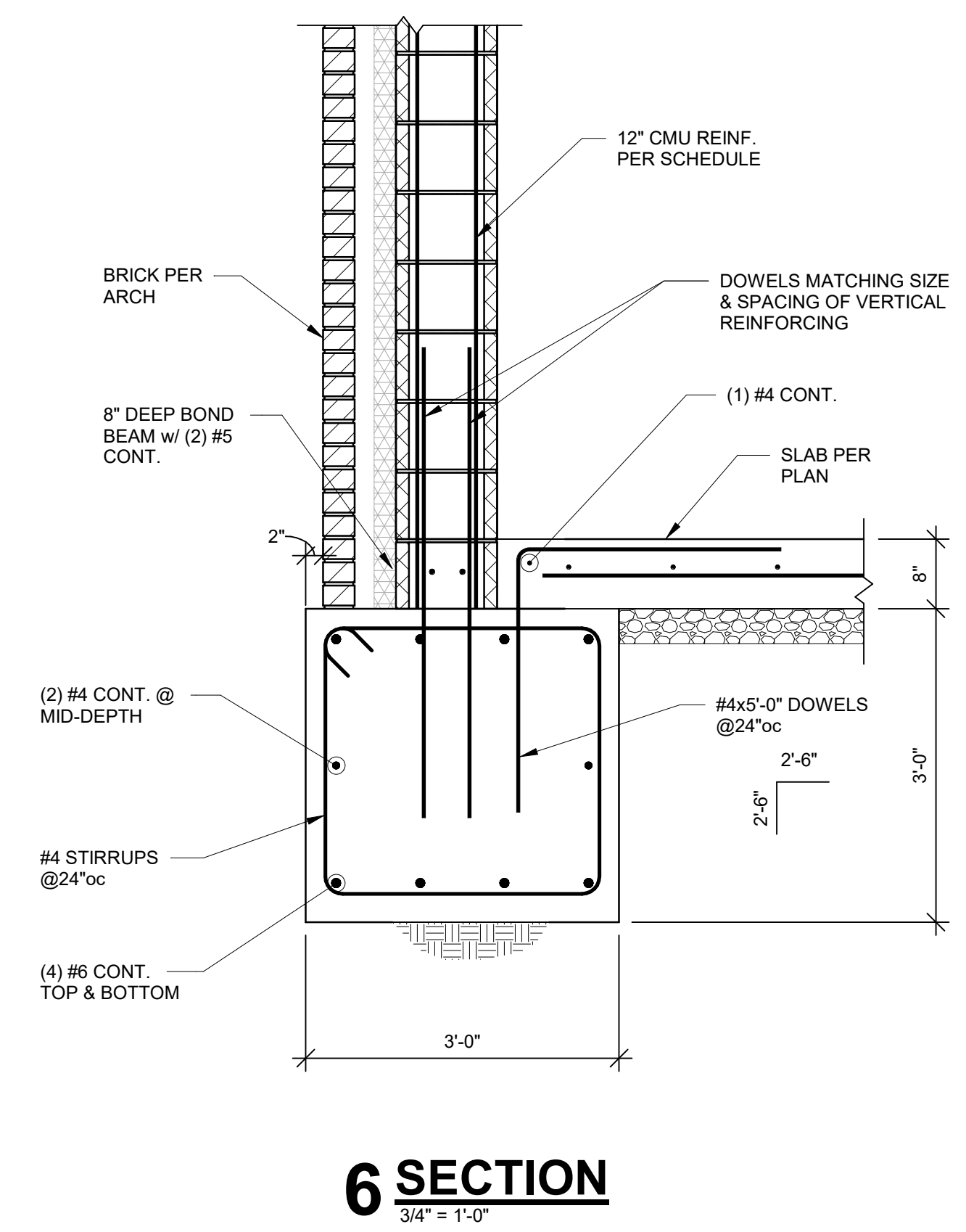
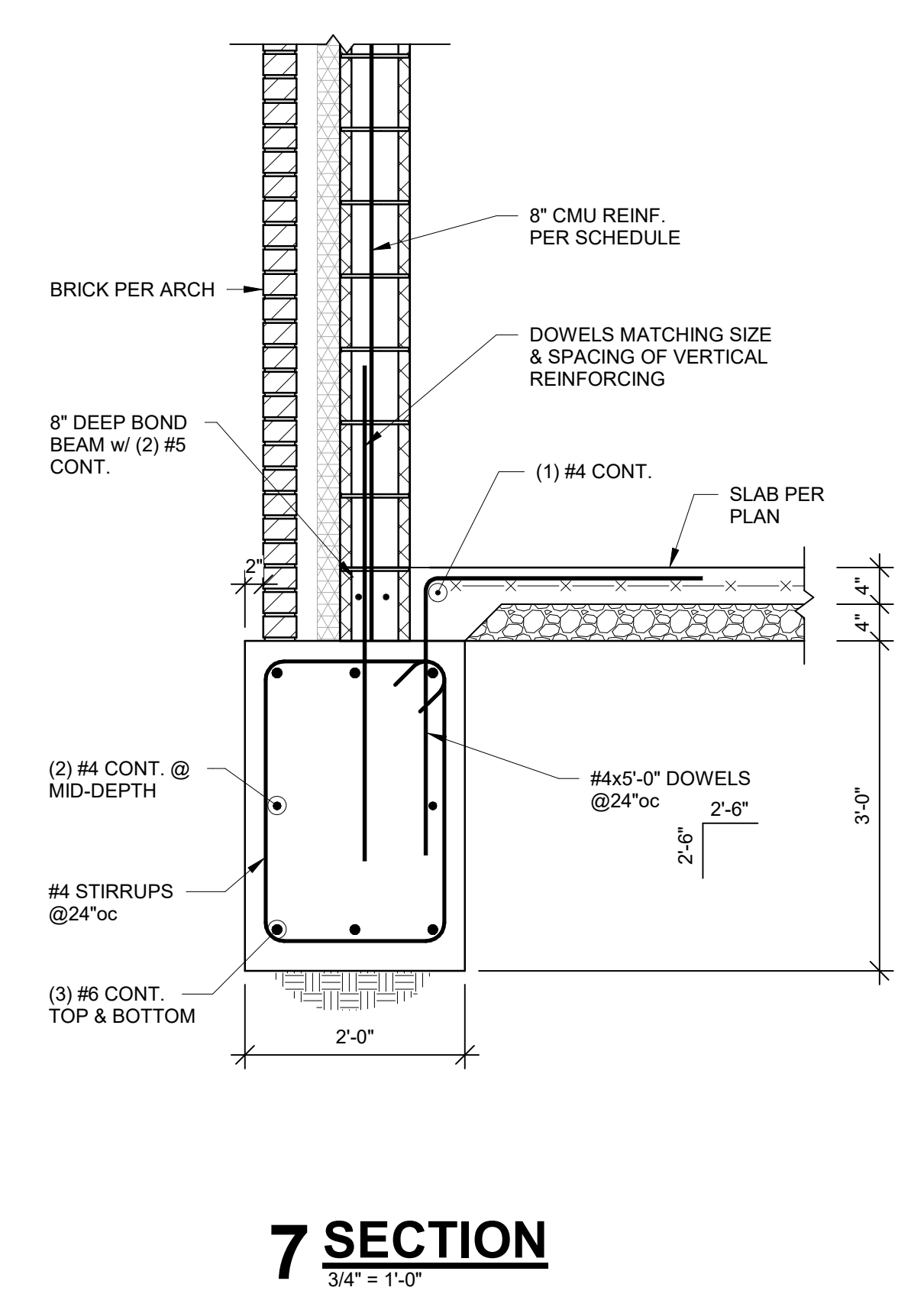
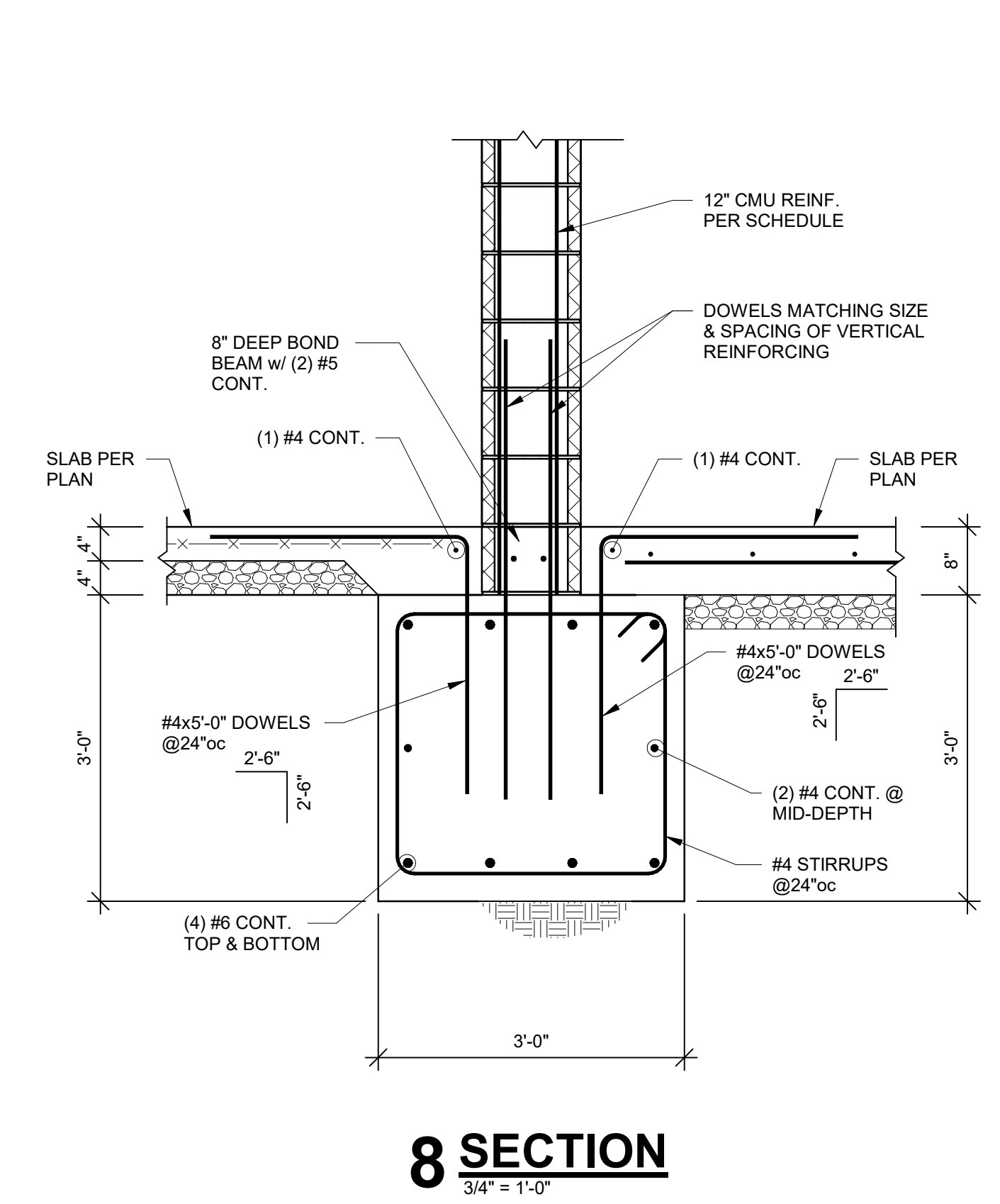
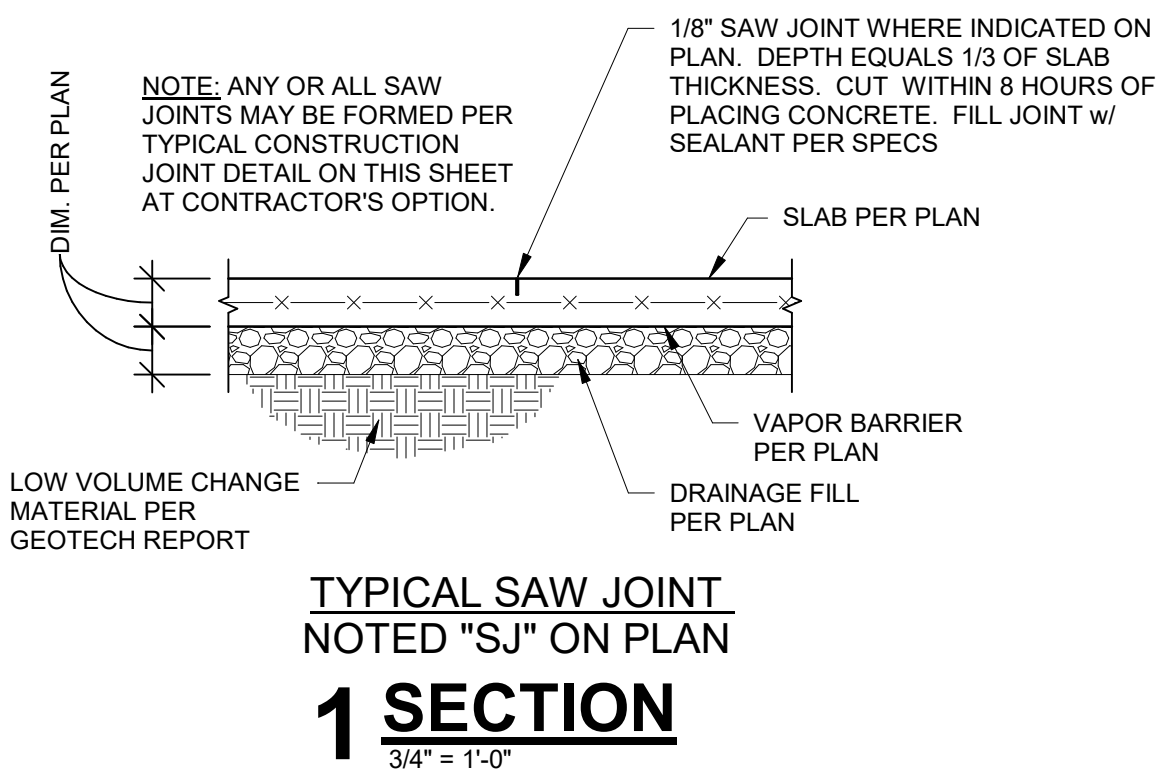
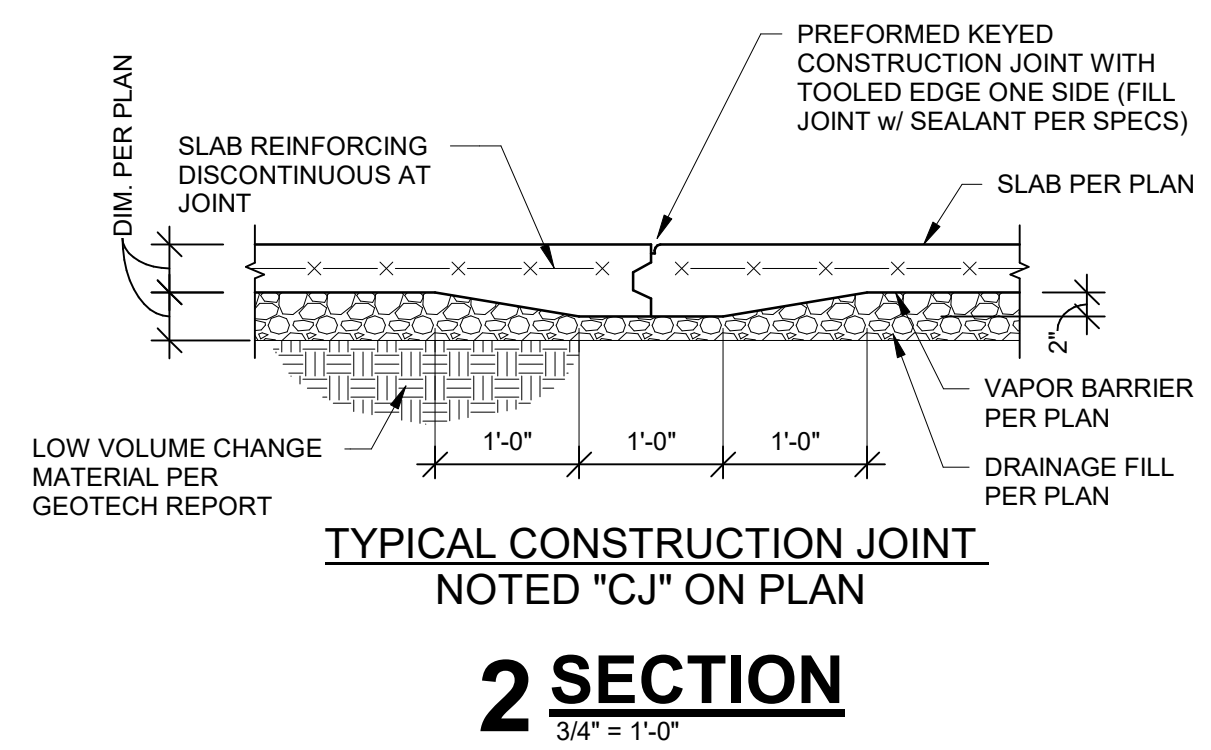
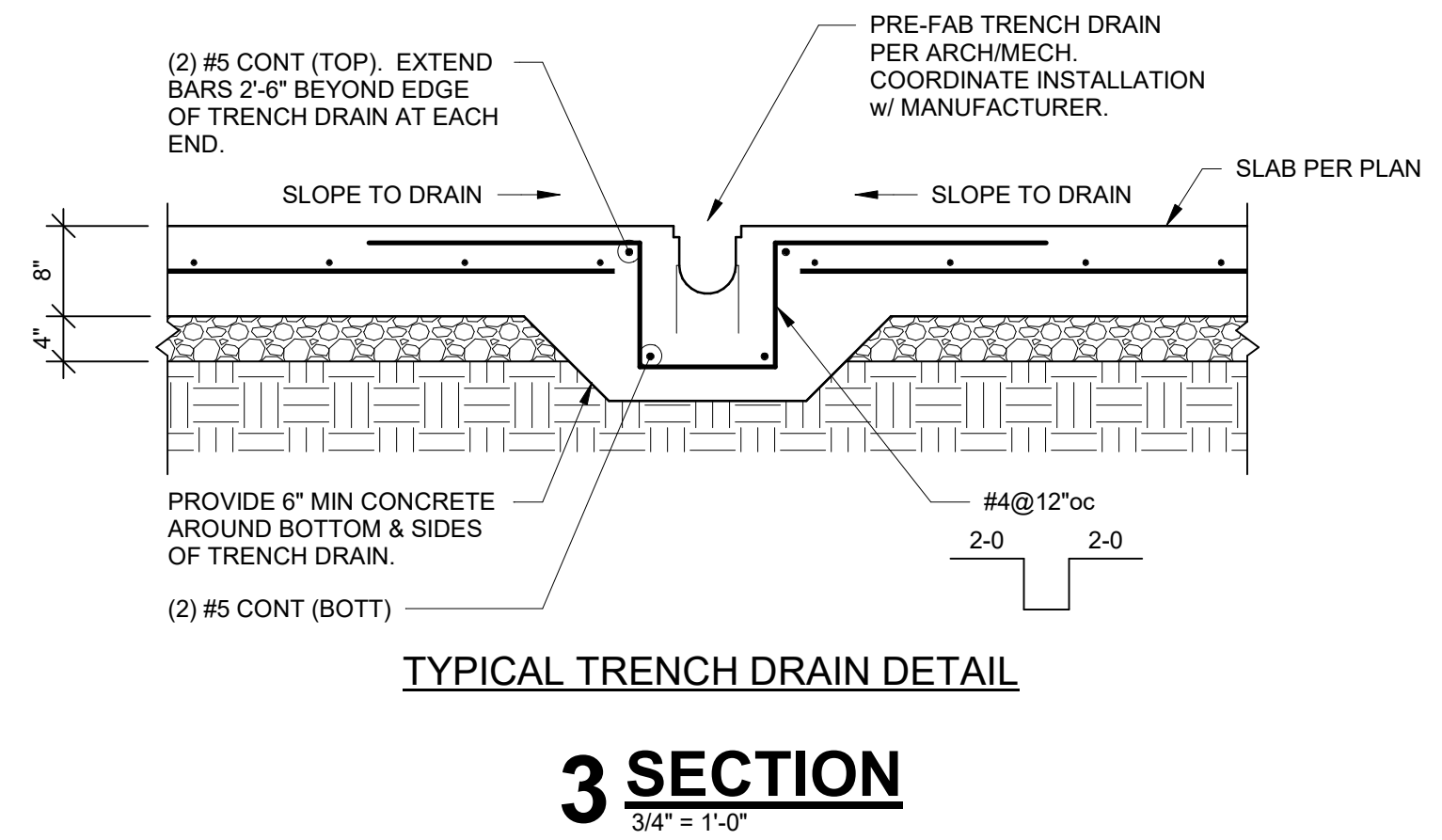
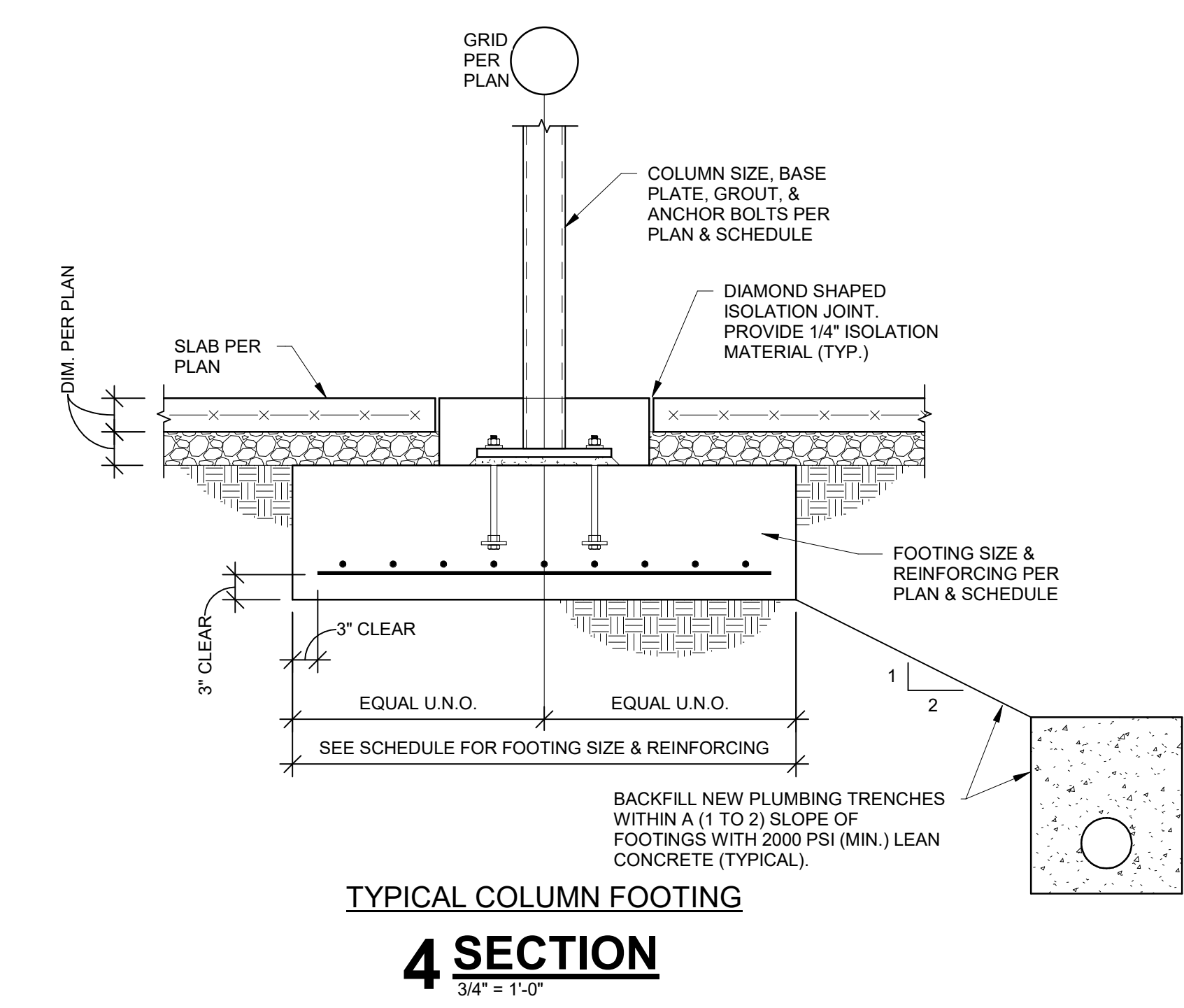


BID SET DOCUMENTS
 ISSUE DATE 09/09/2024
 No. Description Date

WSKF, Inc. © 2024

FOUNDATION SECTIONS

\$2.00

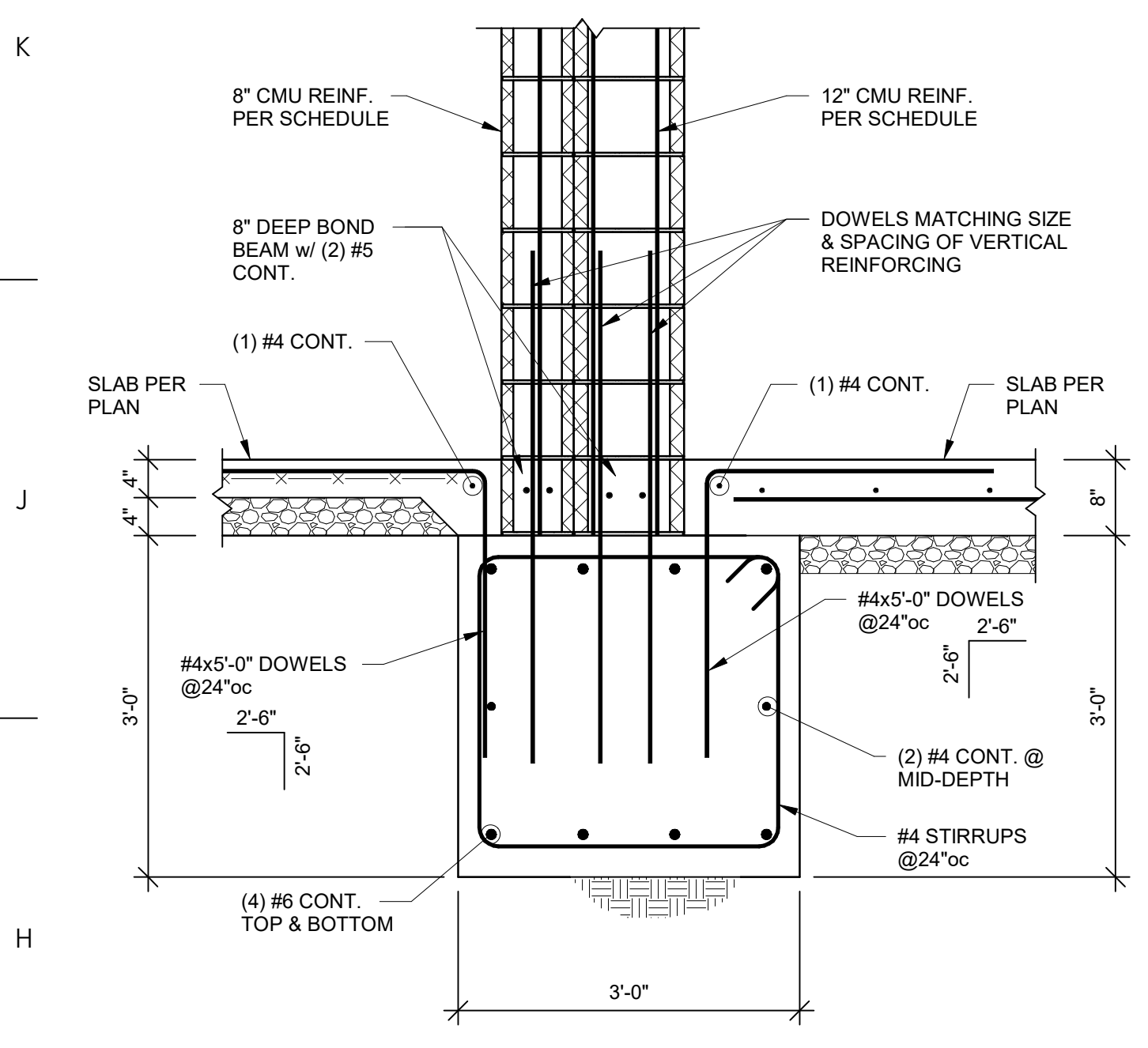




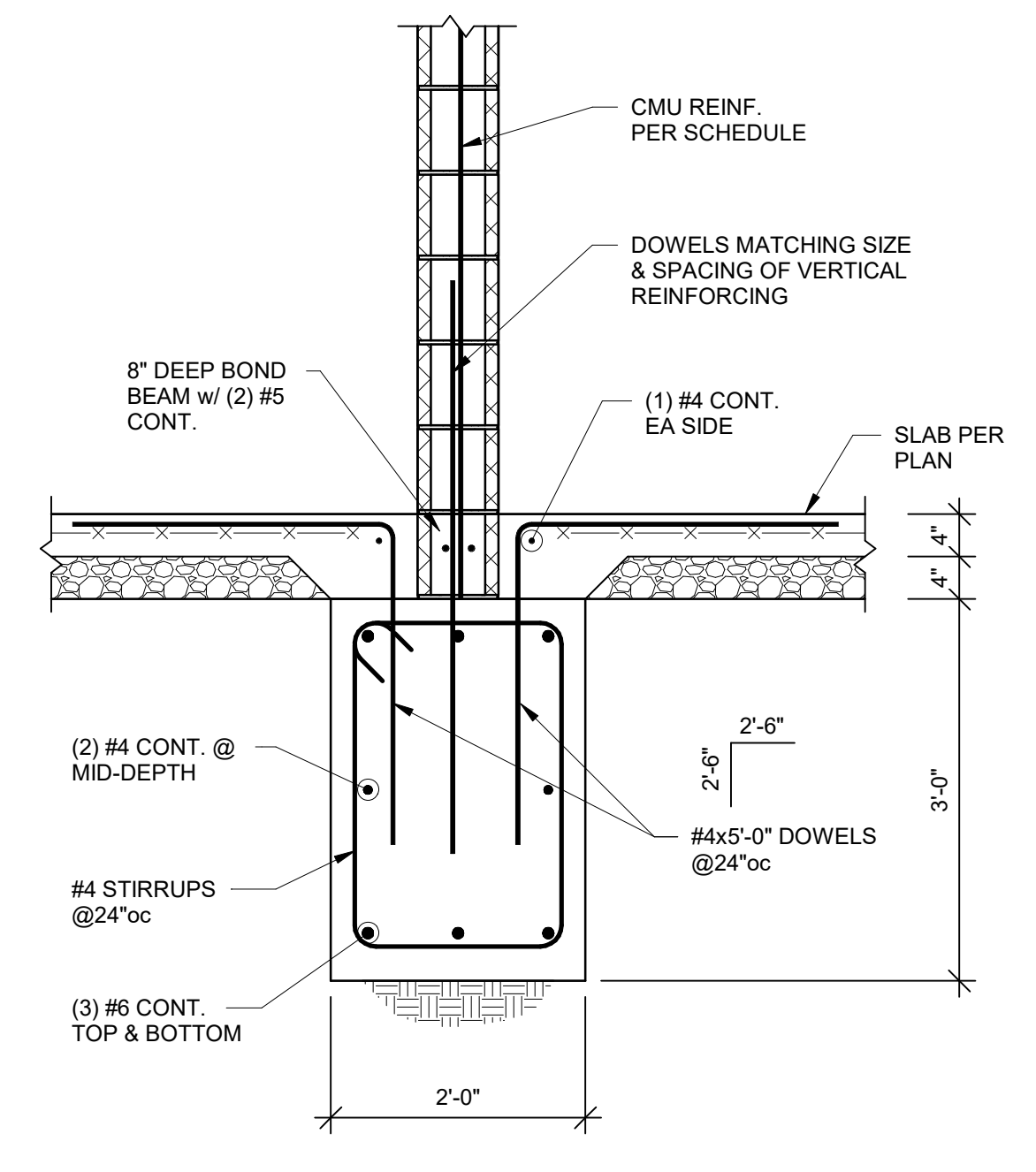
Kansas Certificate of Authority #A-516
 CIVIL ENGINEER
 KAW Valley Engineering
 KS Certificate of Authority #29241
 1627 Sunflower Lane
 Salina, KS 67401
 785-823-3400

Structural Engineer
 Bob D. Campbell & Co.
 KS Certificate of Authority #000442
 4538 Bellview
 Kansas City, MO 64111
 816-778-7149
 MEP Engineer
 PKMR Engineers, Inc.
 KS Certificate of Authority #E-2002020886
 13300 W. 98th St.
 Lenexa, KS 66215
 913-492-2400

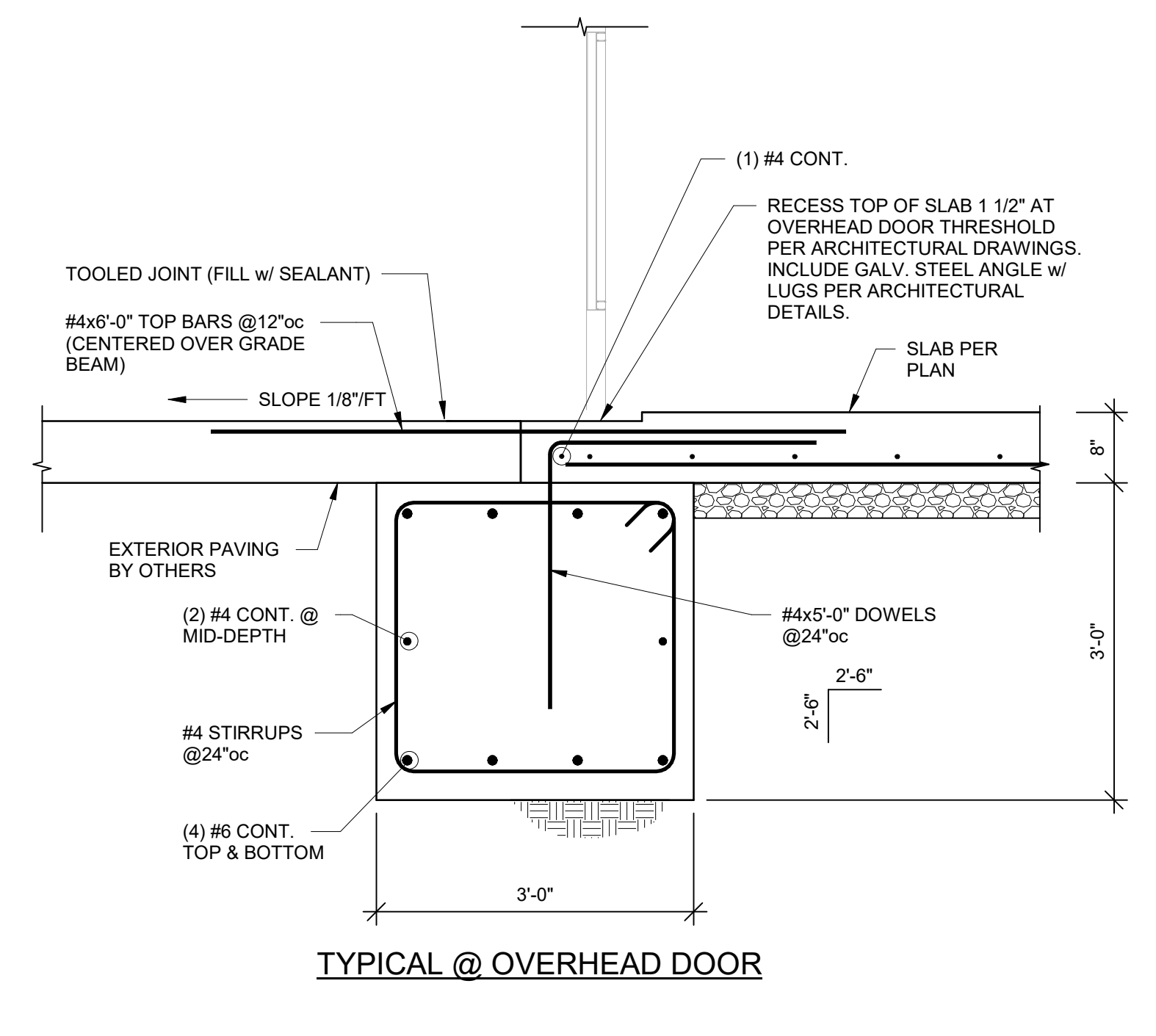
JOB NUMBER 22003



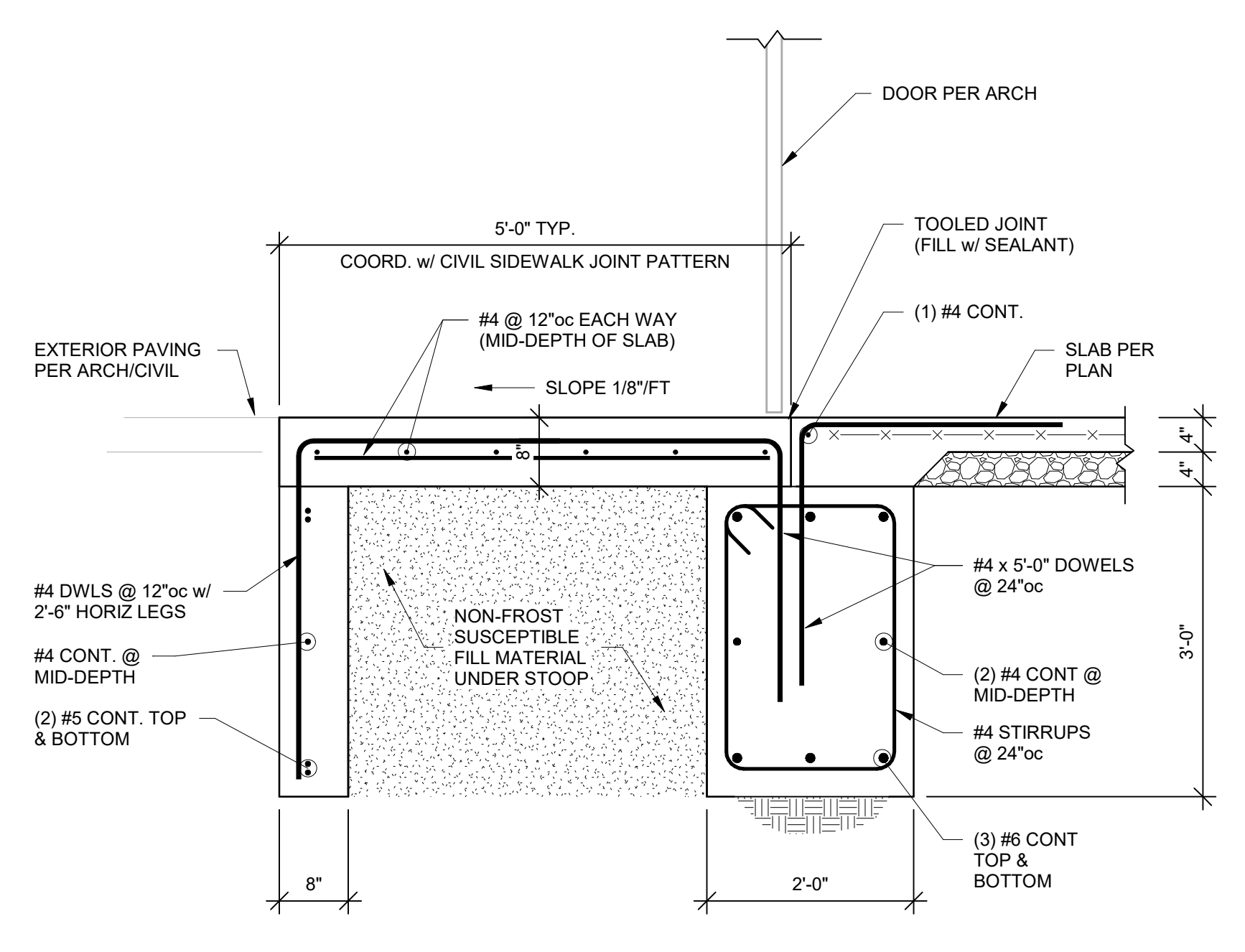
1 SECTION
 3/4" = 1'-0"



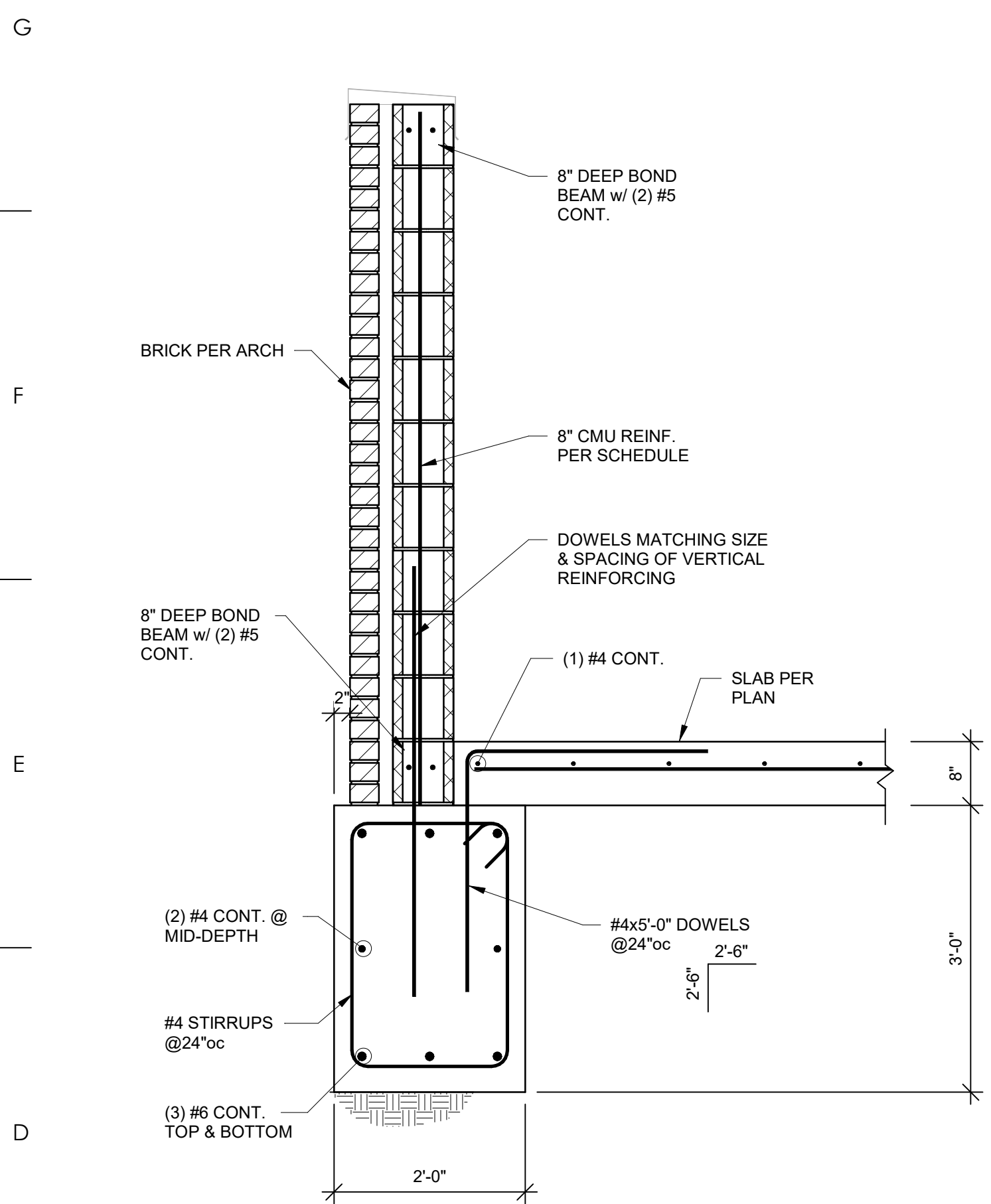
2 SECTION
 3/4" = 1'-0"



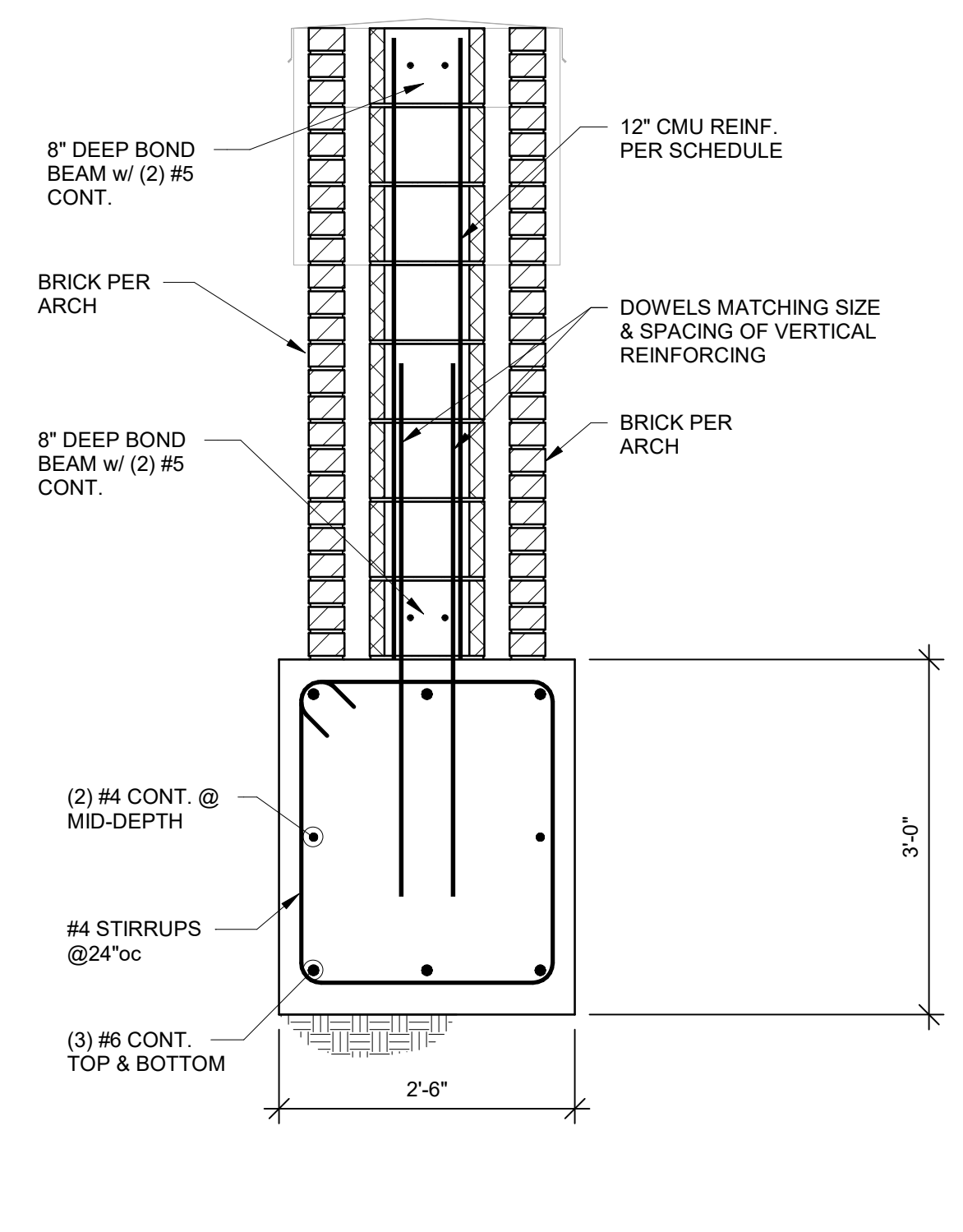
TYPICAL @ OVERHEAD DOOR



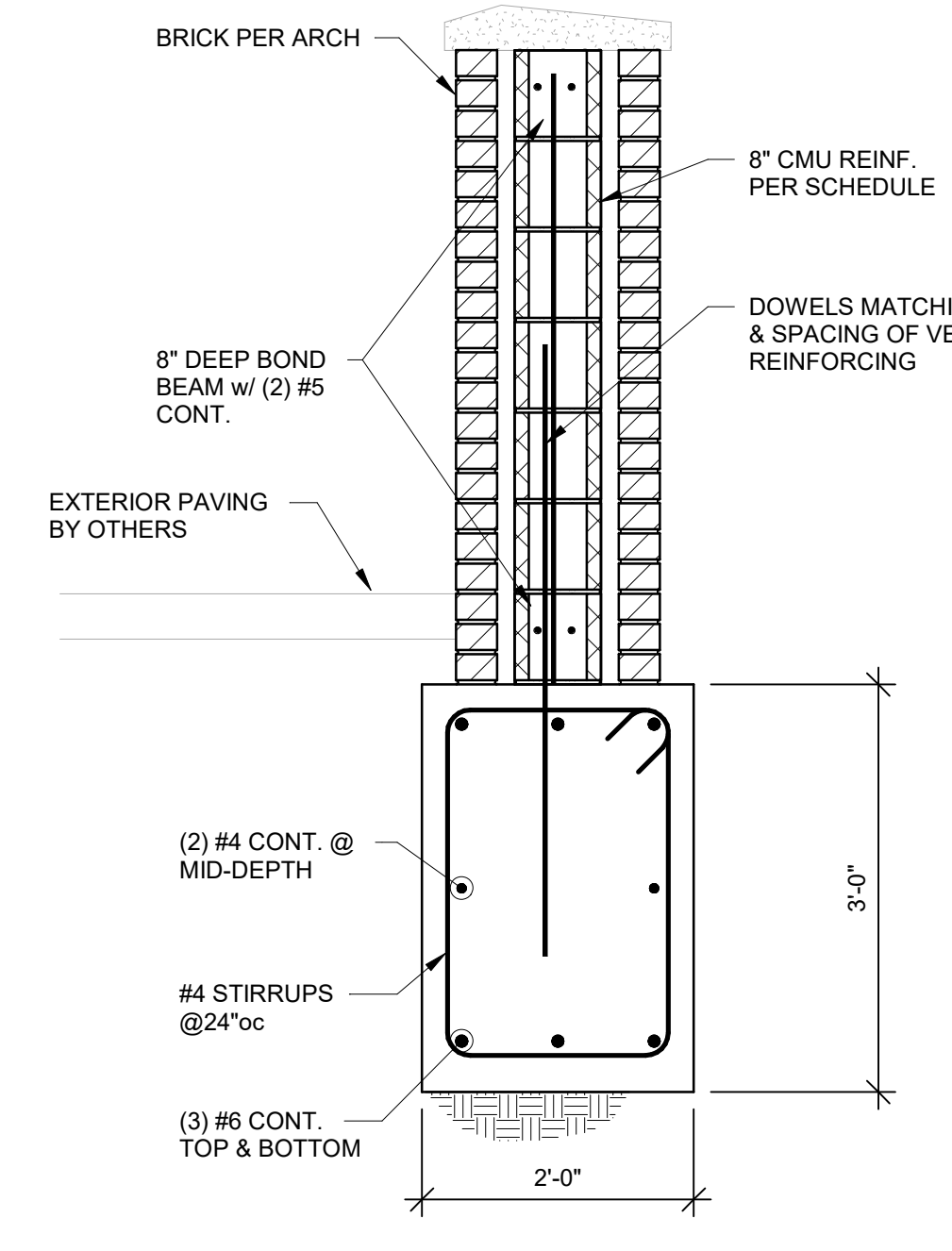
4 SECTION
 3/4" = 1'-0"



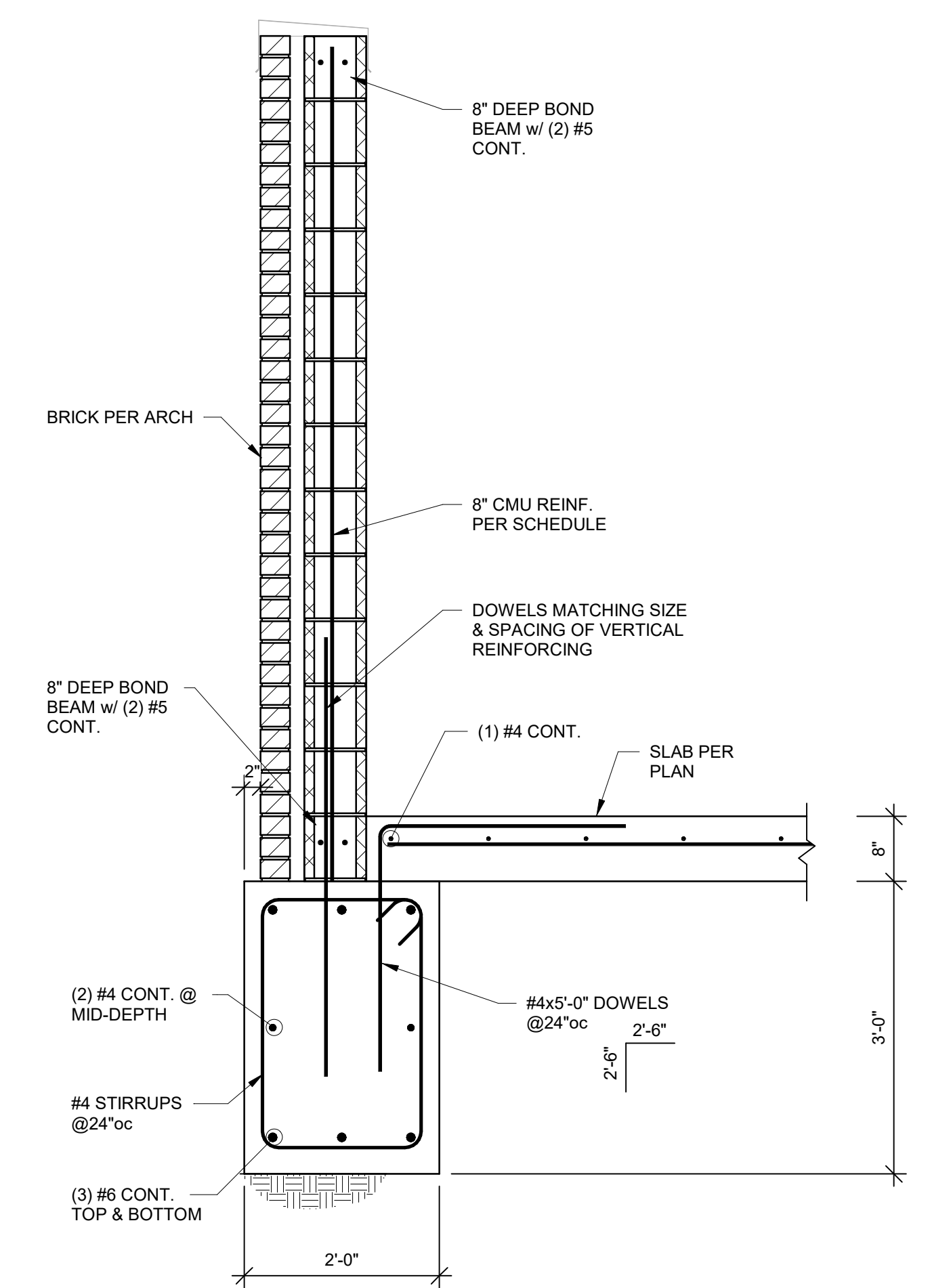
5 SECTION
 3/4" = 1'-0"



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



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



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

SALINA FIRE STATION #4

EAST CRAWFORD STREET
 & MARKLEY ROAD
 SALINA, KS 67401
 CITY OF SALINA

755 Minnesota Ave., Suite 662 Kansas City, Kansas 66101 Tel. 816.300.4101 Fax 816.300.4102



BID SET DOCUMENTS

ISSUE DATE	09/09/2024
No. Description	Date

WSKF, Inc. © 2024

FOUNDATION SECTIONS
S2.01

9/9/2024 11:26:06 AM
 V:\W\A\WSKF Projects\Salina Fire Station 4\WSKF2303_Salina Fire Station 4 - R22_cbooc-bdc.rvt

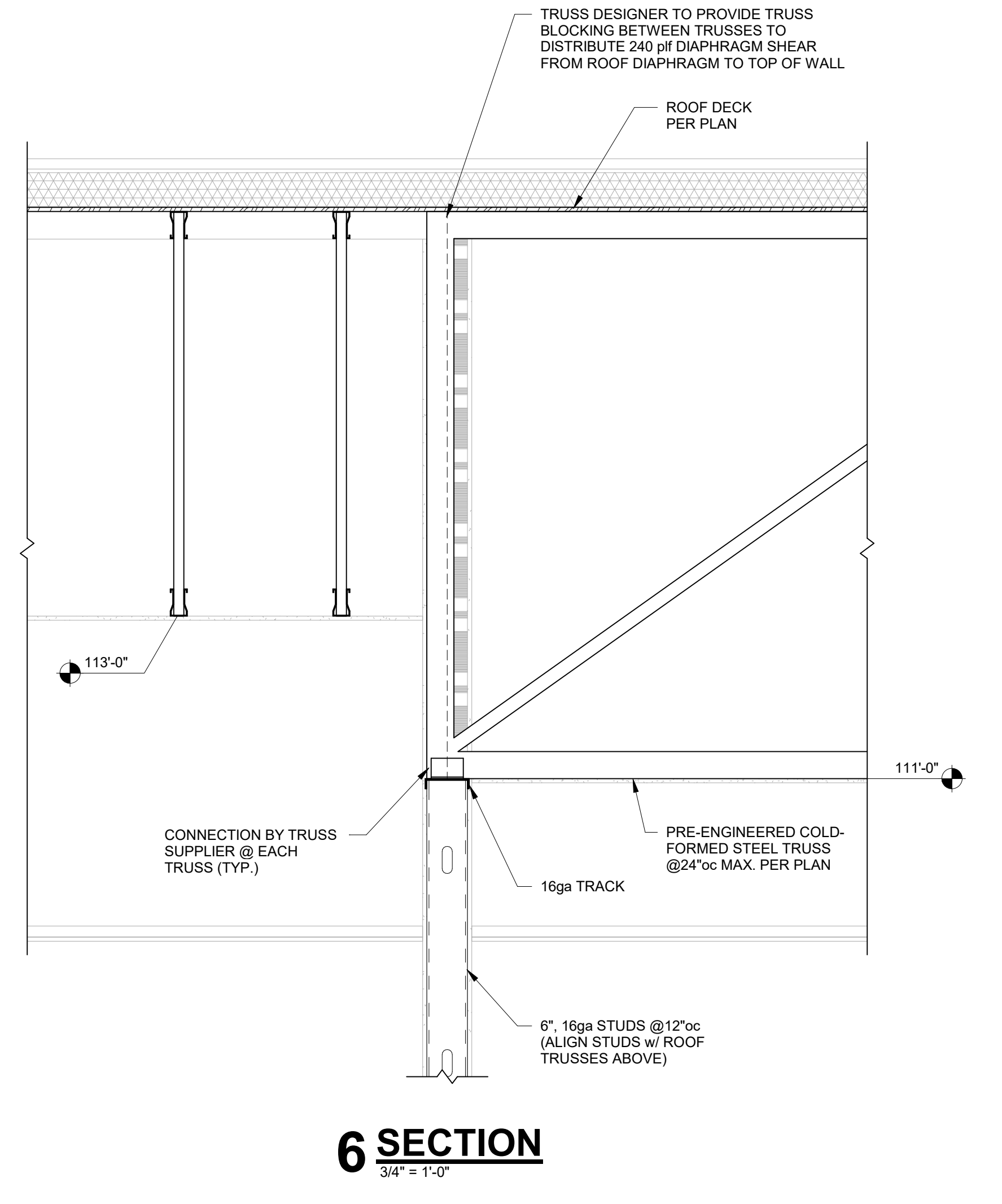
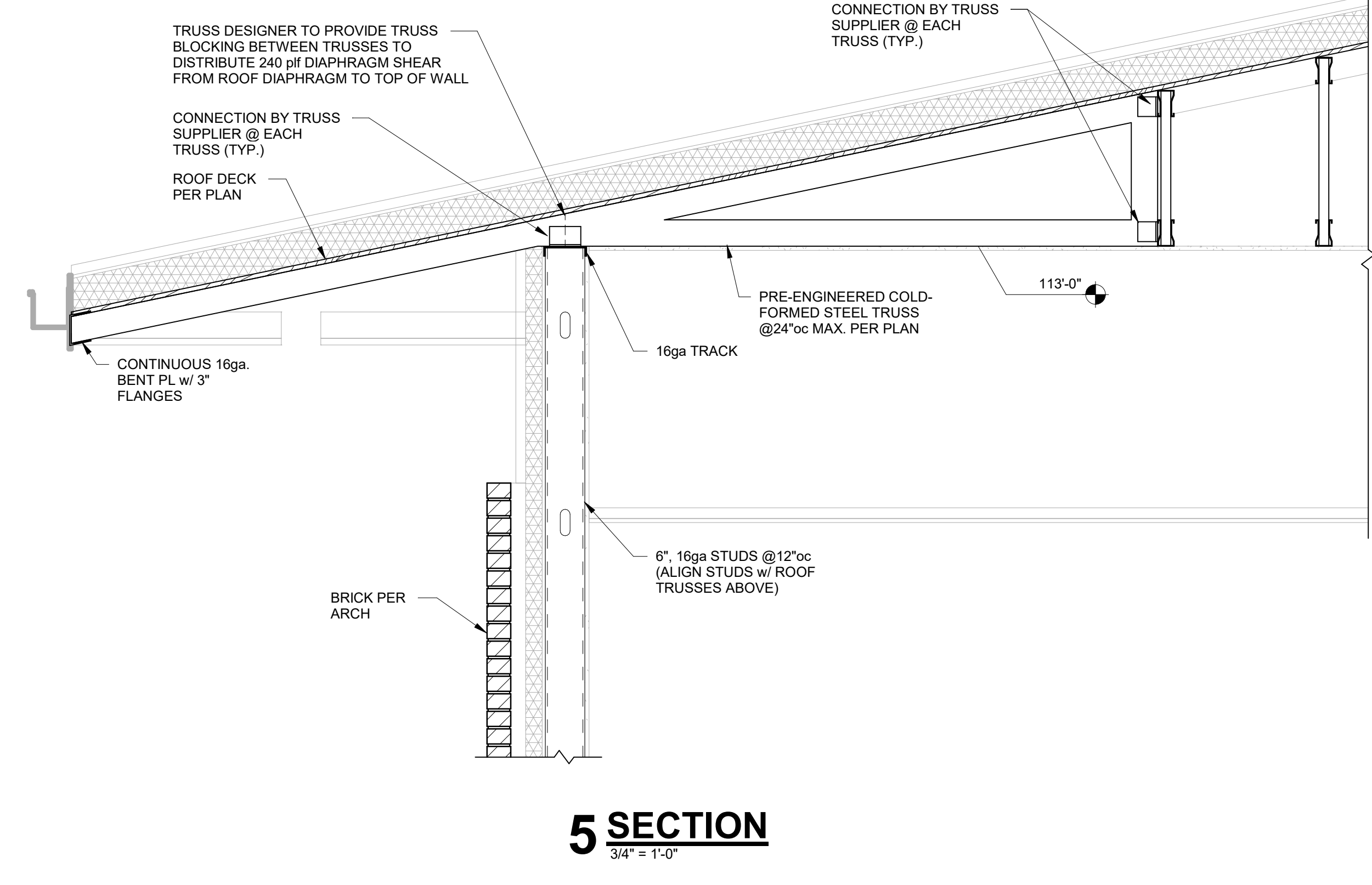
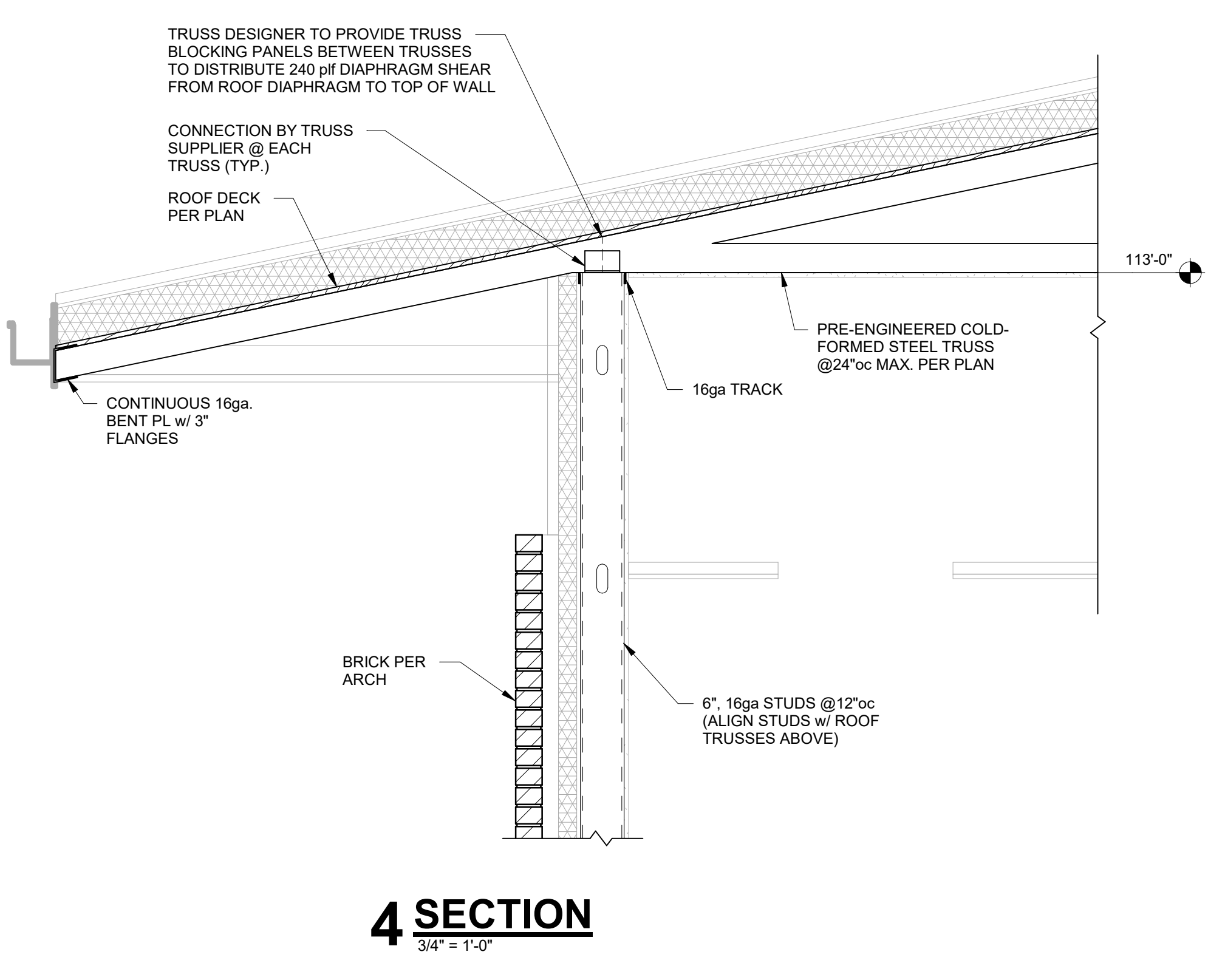
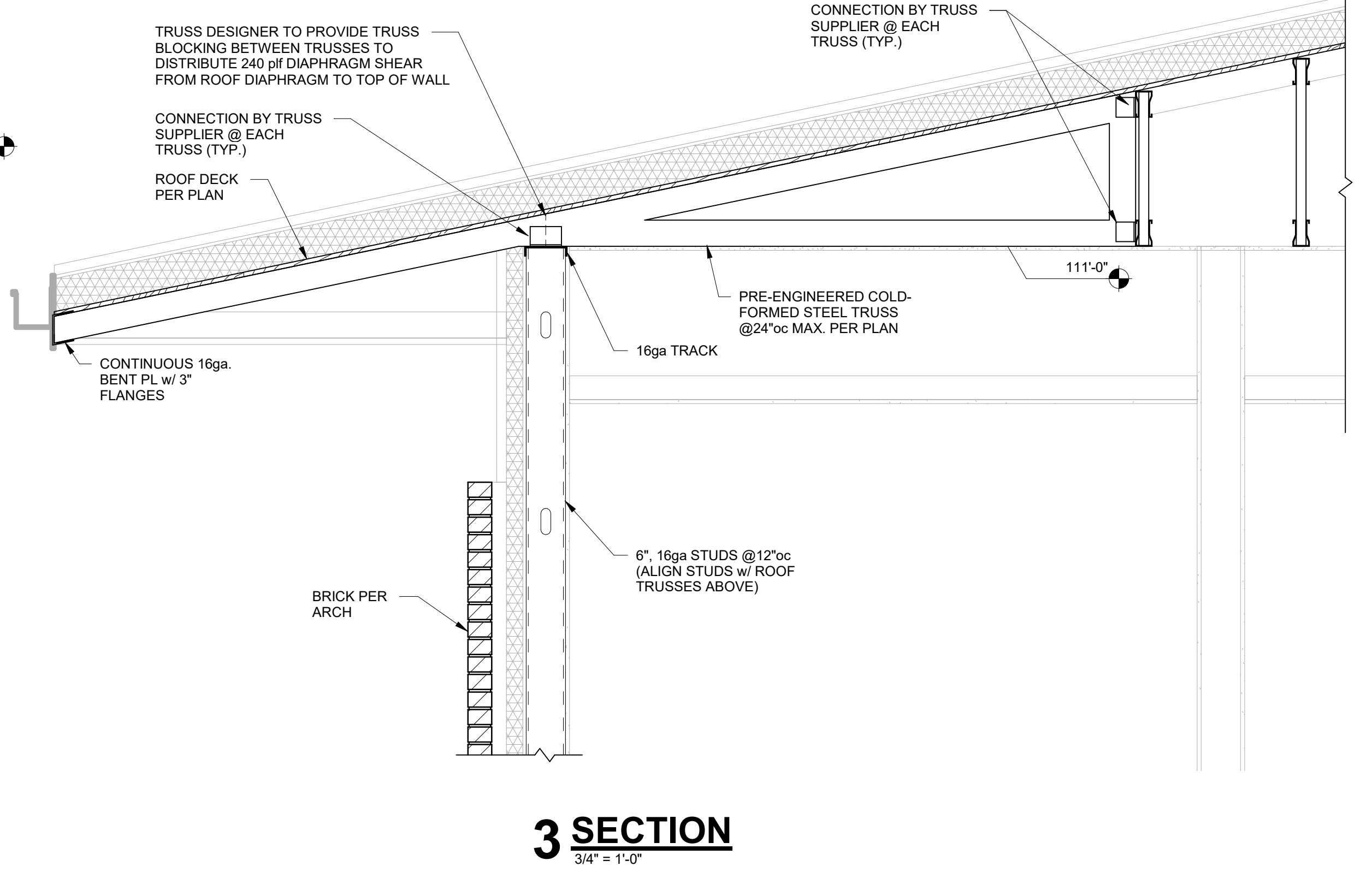
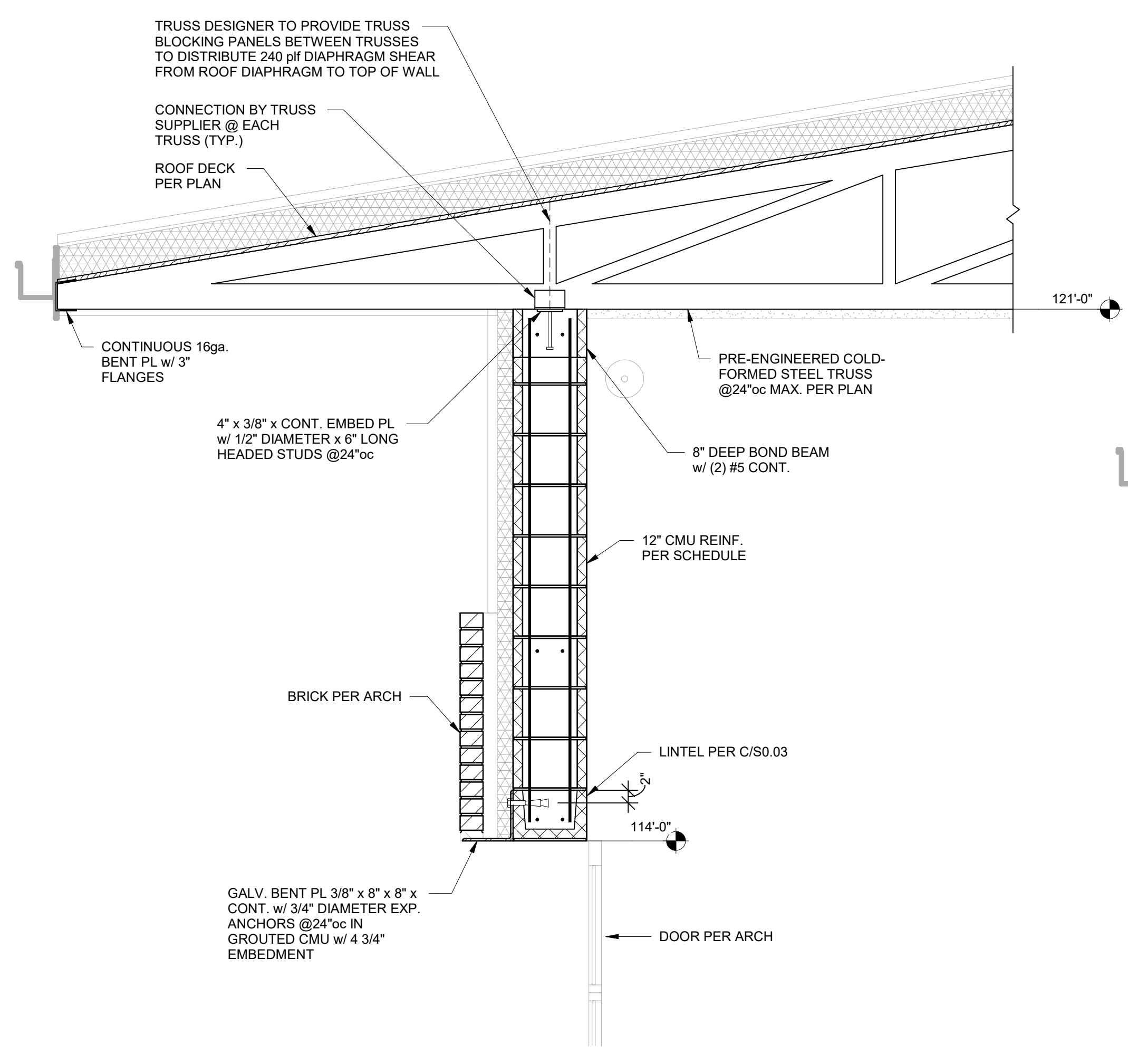
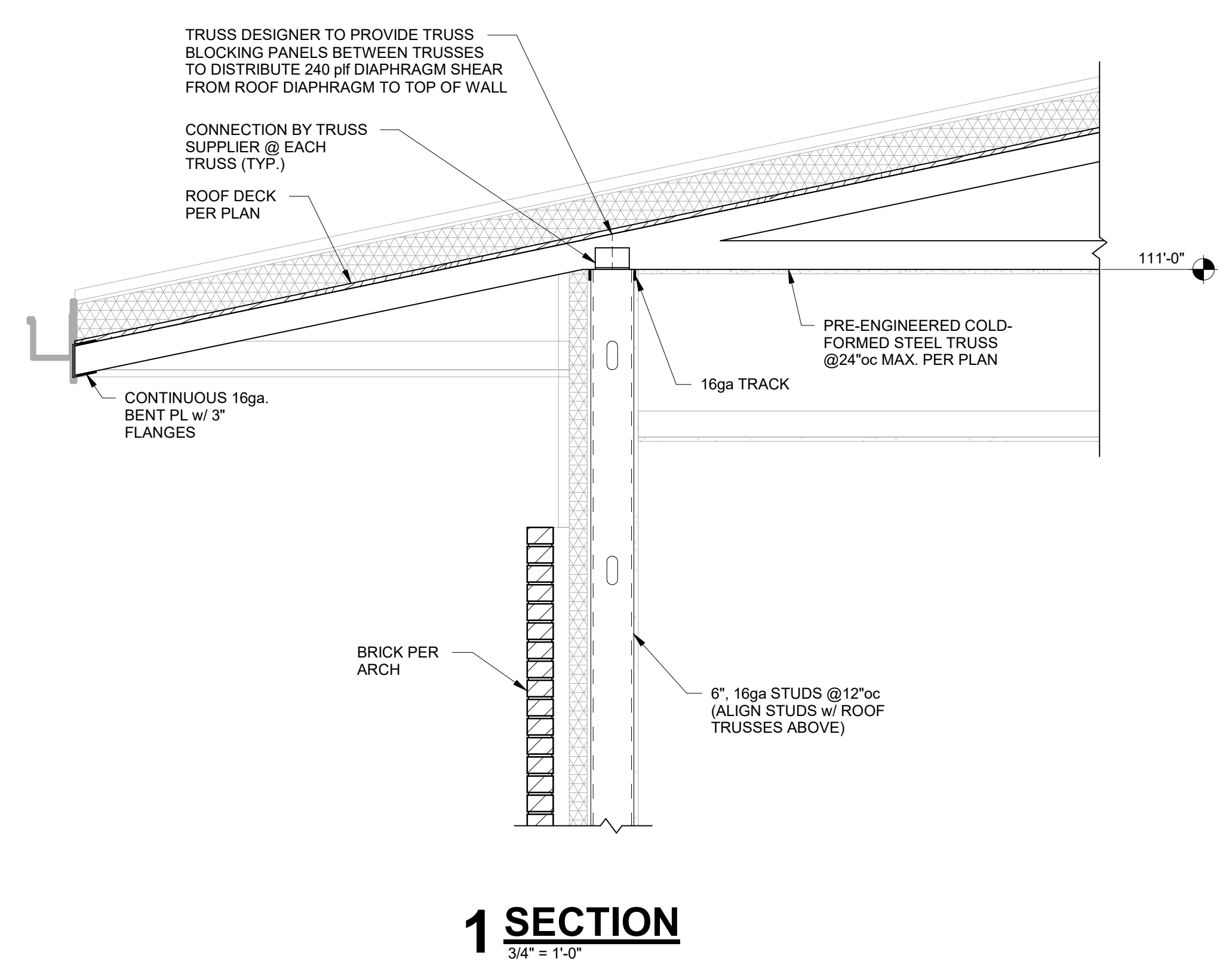


Kansas Certificate of Authority #A-516
 CIVIL ENGINEER
 KAW Valley Engineering
 KS Certificate of Authority #29241
 1627 Sunflower Lane
 Salina, KS 67401
 785-823-3400

Structural Engineer
 Bob D. Campbell & Co.
 KS Certificate of Authority #000442
 4338 Bellview
 Kansas City, MO 64111
 816-778-7149

MEP Engineer
 PKMR Engineers, Inc.
 KS Certificate of Authority #E-2002020886
 13300 W. 98th St.
 Lenexa, KS 66215
 913-492-2400

JOB NUMBER 22003



SALINA FIRE STATION #4

EAST CRAWFORD STREET & MARKLEY ROAD
 SALINA, KS 67401
 CITY OF SALINA

755 Minnesota Ave., Suite 662 Kansas City, Kansas 66101 Tel. 816.300.4101 Fax 816.300.4102



BID SET DOCUMENTS

ISSUE DATE	09/09/2024
No. Description	Date

WSKF, Inc. © 2024

ROOF FRAMING SECTIONS

\$3.00

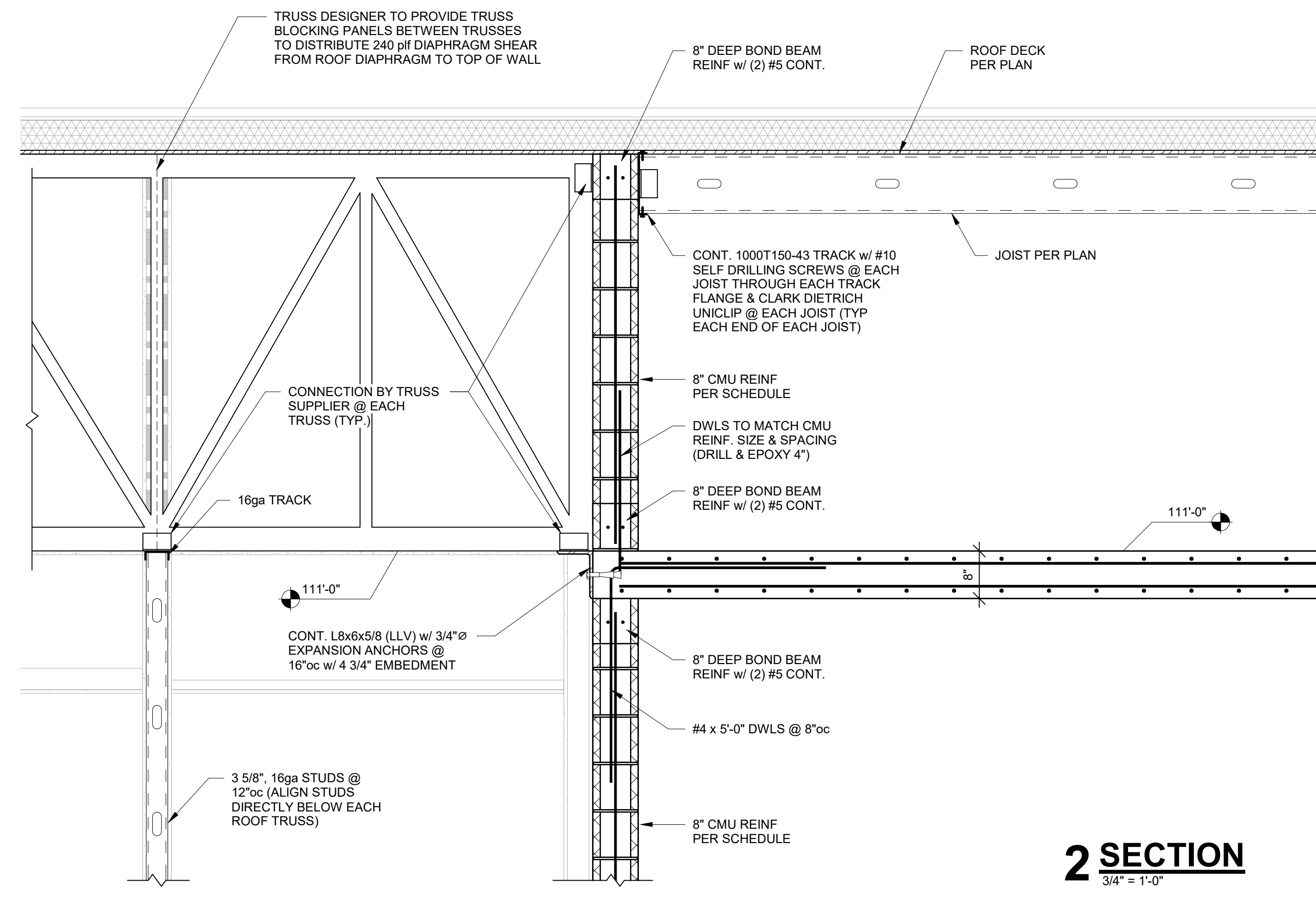
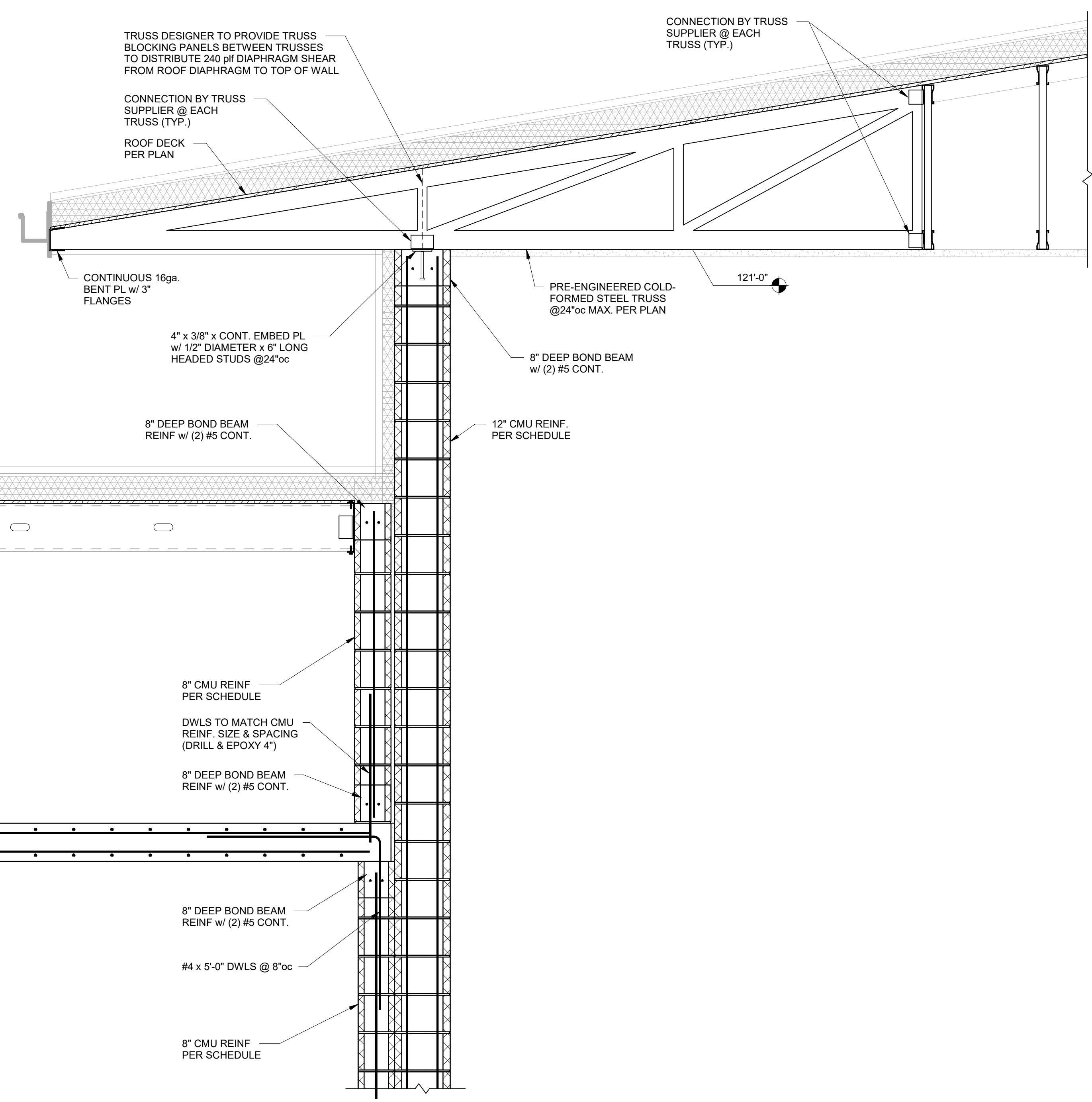
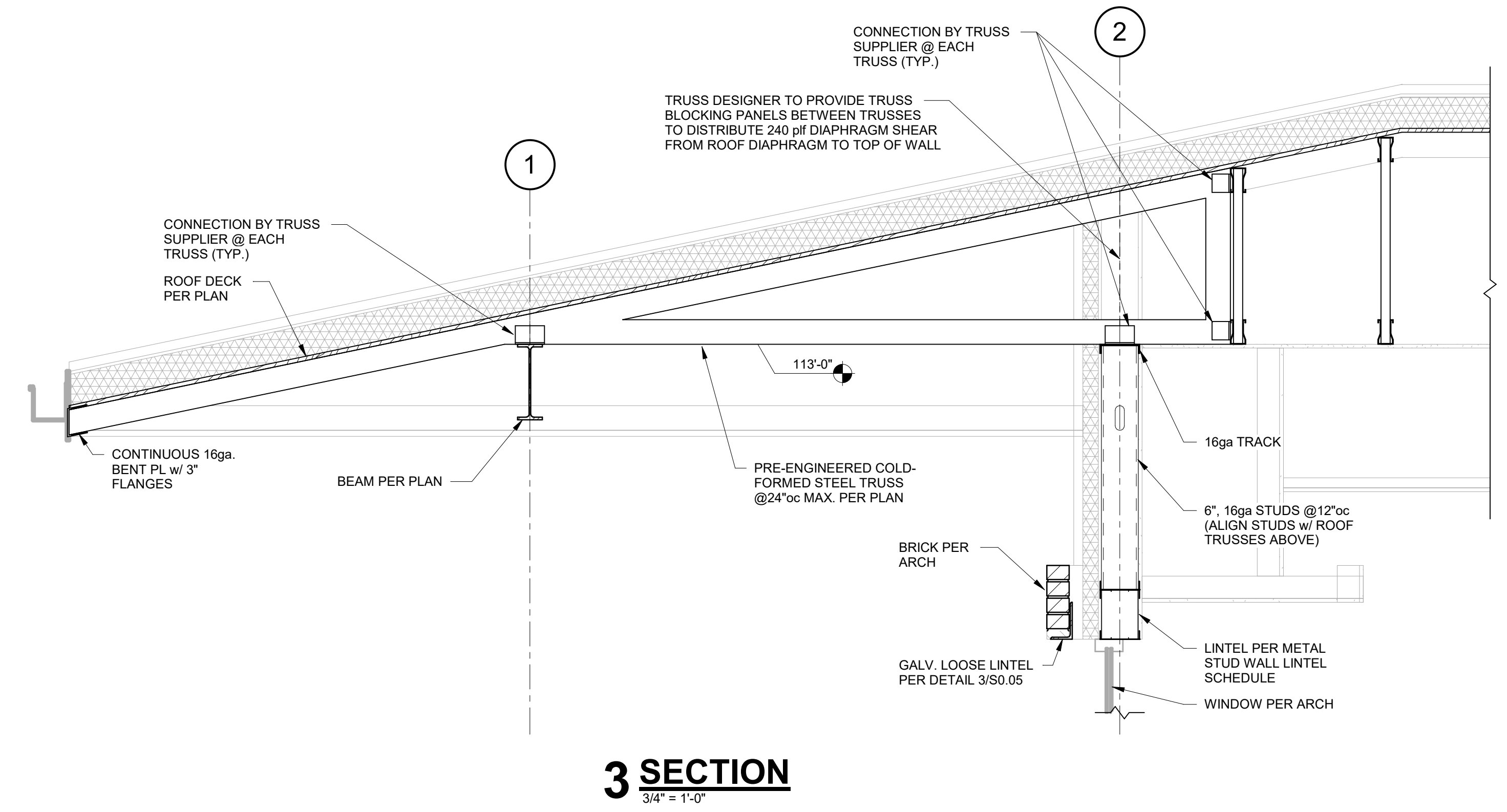
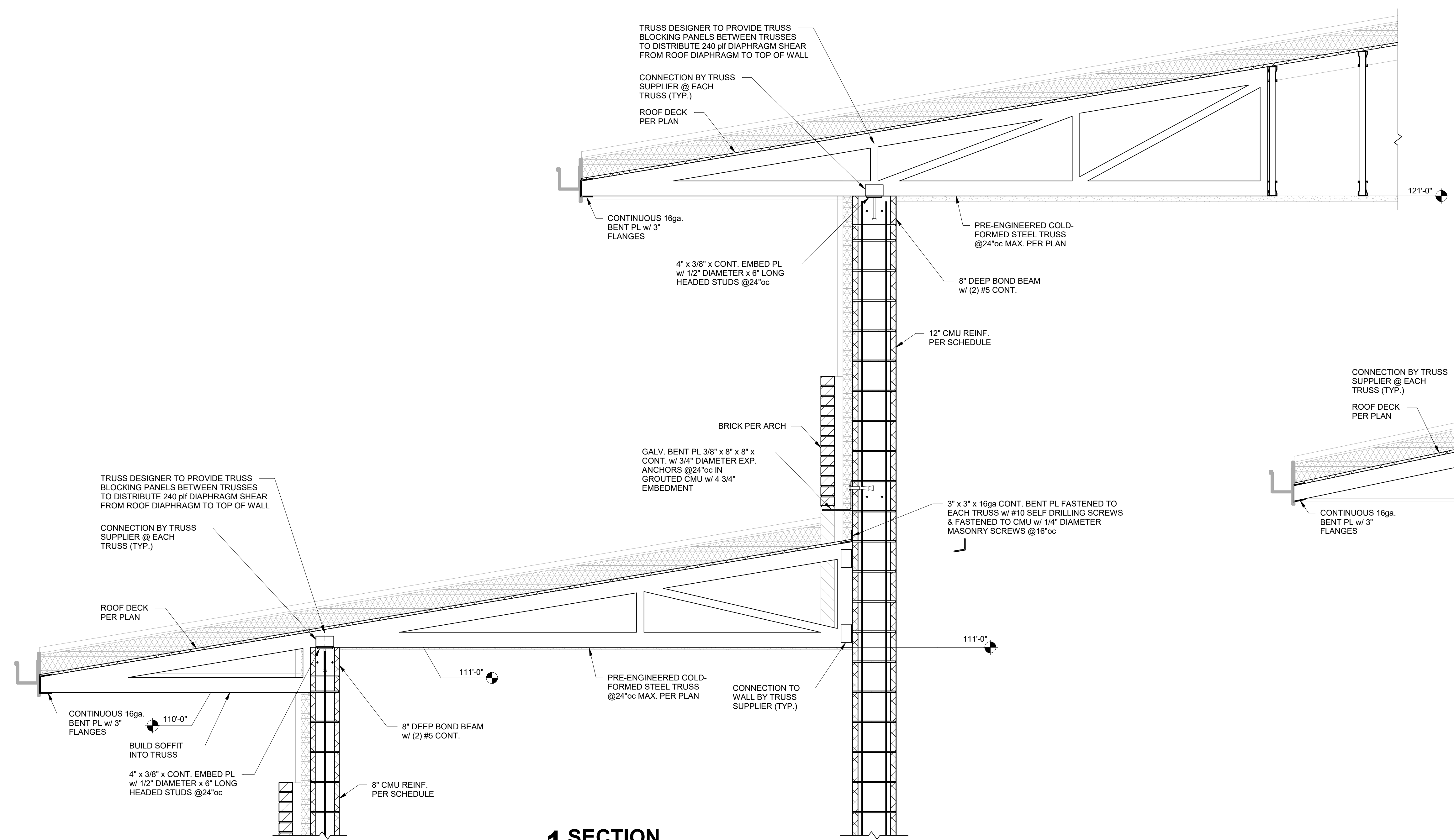
9/9/2024 11:26:06 AM
 V:\V:\WSKF Projects\2303 Salina Fire Station 4\WSKF2303 Salina Fire Station 4 - R22_cboos-bdc.rvt



Kansas Certificate of Authority #A-516
 CIVIL ENGINEER
 KAW Valley Engineering
 KS Certificate of Authority #29241
 1627 Sunflower Lane
 Salina, KS 67401
 785-823-3400

Structural Engineer
 Bob D. Campbell & Co.
 KS Certificate of Authority #000442
 4338 Bellview
 Kansas City, MO 64111
 816-778-7149
 MEP Engineer
 PKMR Engineers, Inc.
 KS Certificate of Authority #E-2002020886
 13300 W. 98th St.
 Lenexa, KS 66215
 913-492-2400

JOB NUMBER 22003



SALINA FIRE STATION #4
 EAST CRAWFORD STREET
 & MARKLEY ROAD
 SALINA, KS 67401
 CITY OF SALINA
 755 Minnesota Ave., Suite 662 Kansas City, Kansas 66101 Tel. 816.300.4101 Fax 816.300.4102



BID SET DOCUMENTS

ISSUE DATE	09/09/2024
No. Description	Date

WSKF, Inc. © 2024

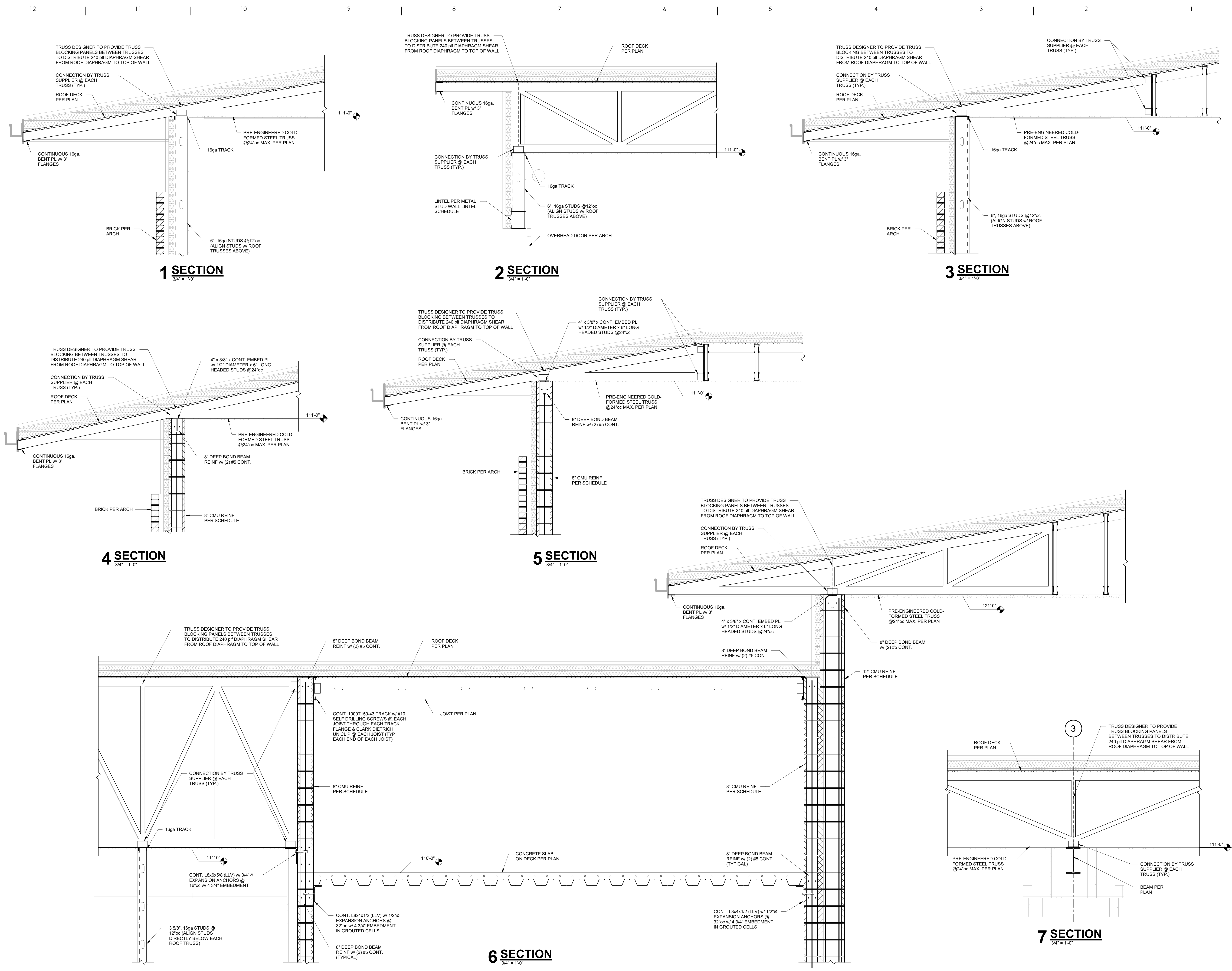
ROOF FRAMING SECTIONS

S3.01

9/9/2024 11:26:07 AM
 V:\W\A\WSKF\Projects\22003_Salina Fire Station 4\WSKF22003_Salina Fire Station 4 - R22_cbooc-bdc.rvt



No.	Description	Date



9/9/2024 11:26:07 AM
 V:\V:\WSKF Projects\22003_Salina Fire Station 4\WSKF22003_Salina Fire Station 4 - R22_cboos-bdc.rvt



Kansas Certificate of Authority #A-516

CIVIL ENGINEER
KAW Valley Engineering
KS Certificate of Authority #29241
1627 Sunflower Lane
Salina, KS 67401
785-823-3400

Structural Engineer
Bob D. Campbell & Co.
KS Certificate of Authority #000442
4338 Bellview
Kansas City, MO 64111
816-778-7149

MEP Engineer
PKMR Engineers, Inc.
KS Certificate of Authority #E-2002020886
13300 W. 98th St.
Lenexa, KS 66215
913-492-2400

JOB NUMBER 22003

SALINA FIRE STATION #4
EAST CRAWFORD STREET
& MARKLEY ROAD
SALINA, KS 67401
CITY OF SALINA
756 Minnesota Ave., Suite 662 Kansas City, Kansas 66101 Tel: 816.300.4101 Fax: 816.300.4102



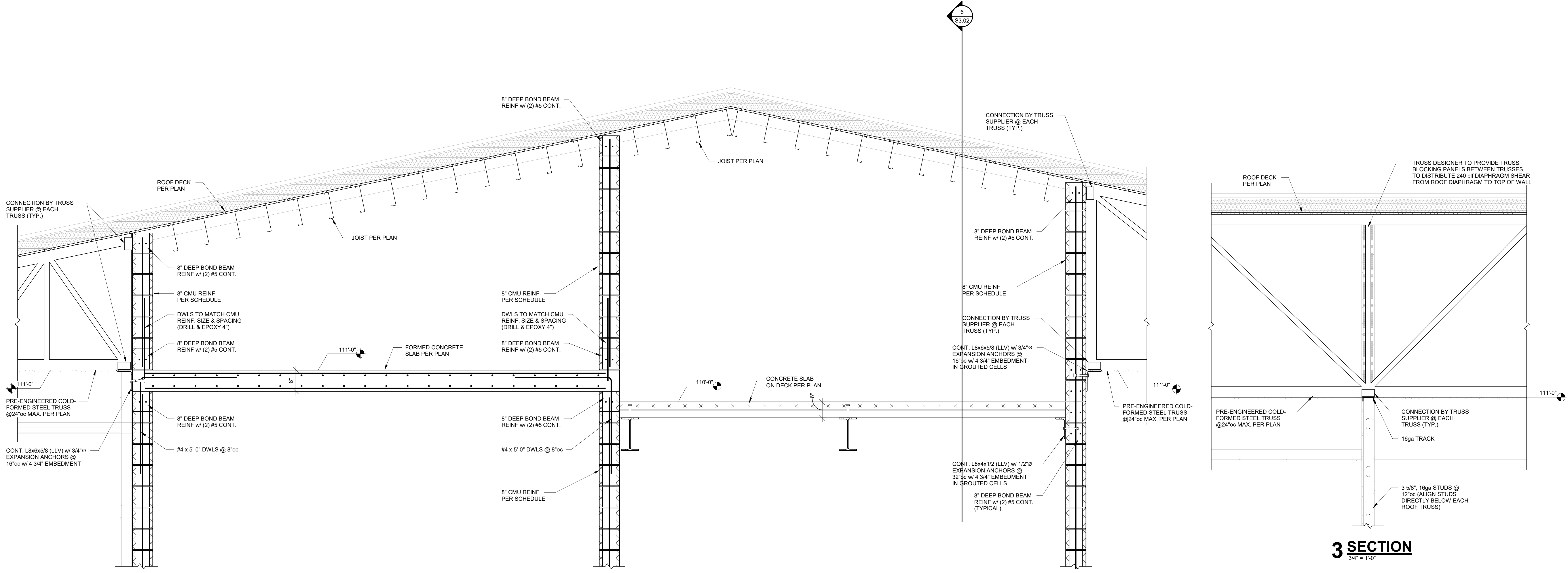
BID SET DOCUMENTS

ISSUE DATE 09/09/2024
No. Description Date

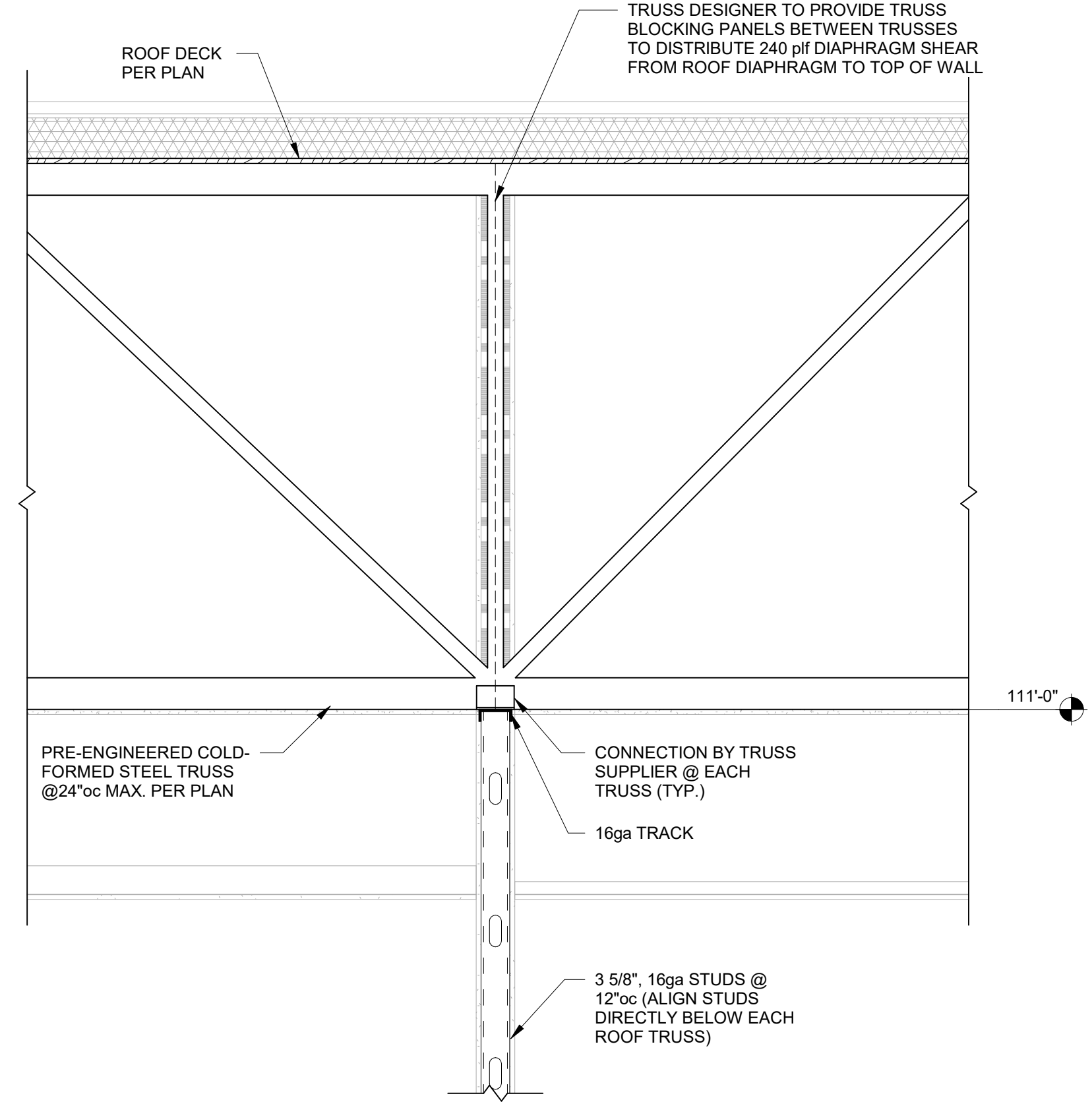
WSKF, Inc. © 2024

ROOF FRAMING SECTIONS

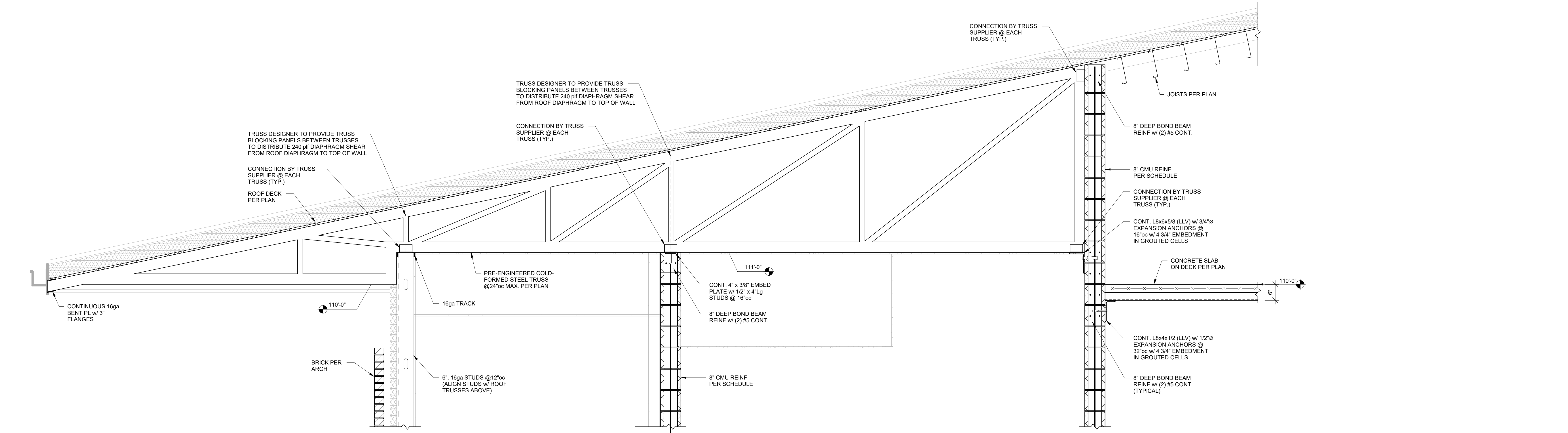
S3.03



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

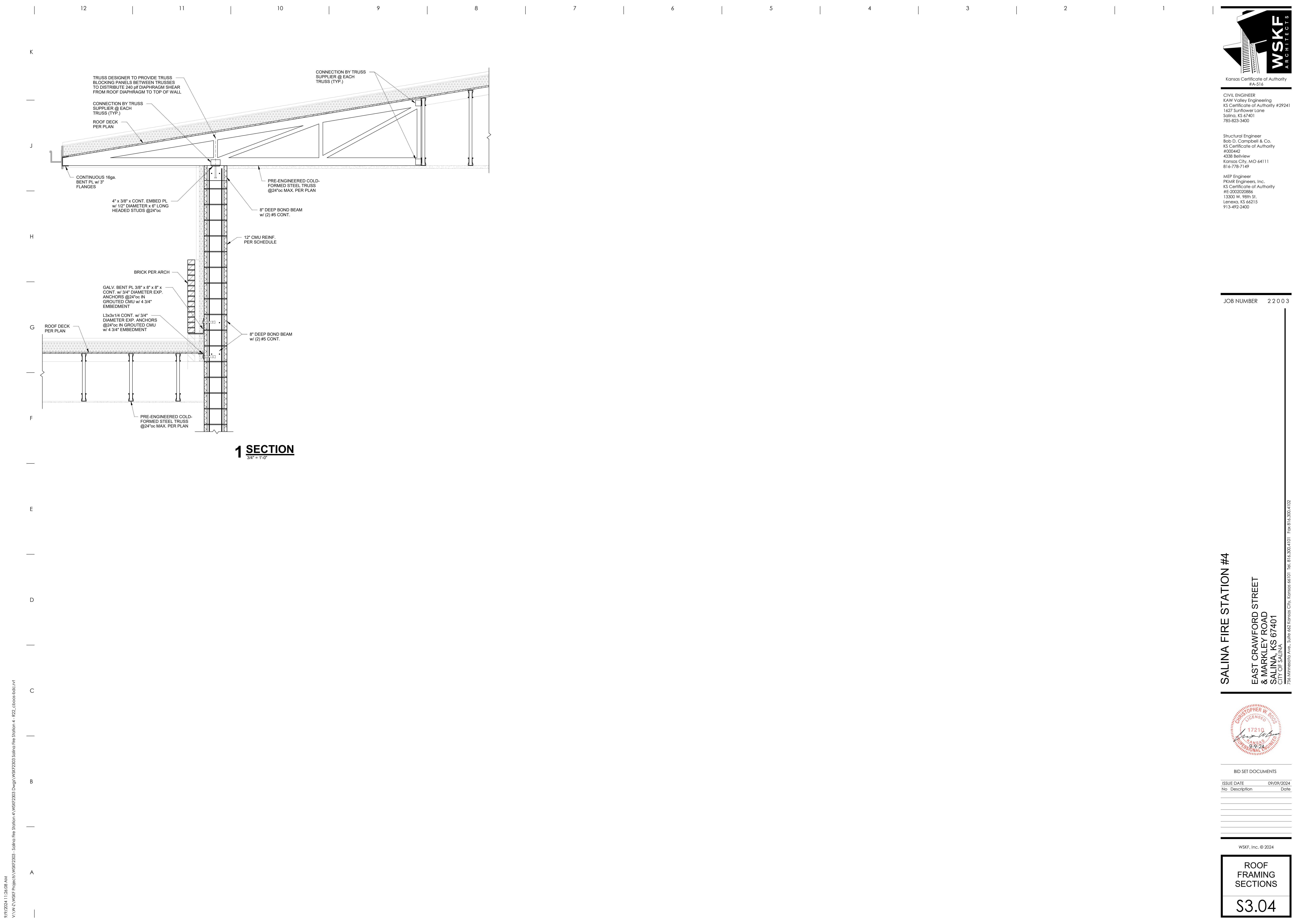


3 SECTION
3/4" = 1'-0"



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

9/9/2024 11:26:08 AM
V:\W\A\WSKF Projects\Salina Fire Station 4\WSKF2303_Salina Fire Station 4 - R22_cbood-bdc.rvt



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



Kansas Certificate of Authority #A-516

CIVIL ENGINEER
KAW Valley Engineering
KS Certificate of Authority #29241
1627 Sunflower Lane
Salina, KS 67401
785-823-3400

Structural Engineer
Bob D. Campbell & Co.
KS Certificate of Authority #000442
4338 Bellview
Kansas City, MO 64111
816-778-7149

M/E/P Engineer
PKMR Engineers, Inc.
KS Certificate of Authority #E-2002020886
13300 W. 98th St.
Lenexa, KS 66215
913-492-2400

JOB NUMBER 22003

SALINA FIRE STATION #4
EAST CRAWFORD STREET
& MARKLEY ROAD
SALINA, KS 67401
CITY OF SALINA
755 Minnesota Ave., Suite 662 Kansas City, Kansas 66101 Tel: 816.300.4101 Fax: 816.300.4102



BID SET DOCUMENTS

ISSUE DATE	09/09/2024
No. Description	Date

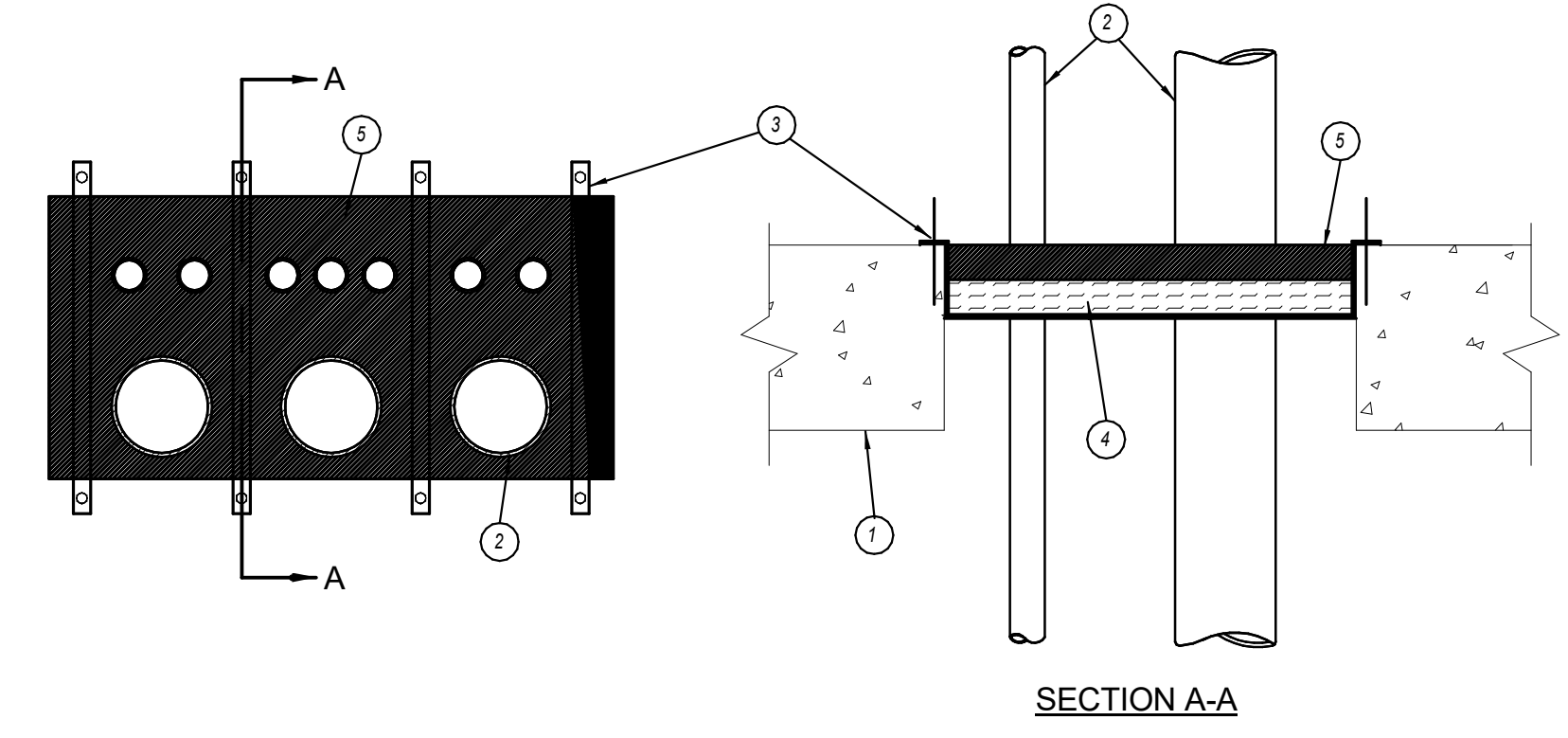
WSKF, Inc. © 2024

ROOF FRAMING SECTIONS

S3.04

9/9/2024 11:26:08 AM
 V:\W:\WSKF Projects\Salina Fire Station 4\WSKF2303_Salina Fire Station 4 - R22_cboos-bdc.rvt

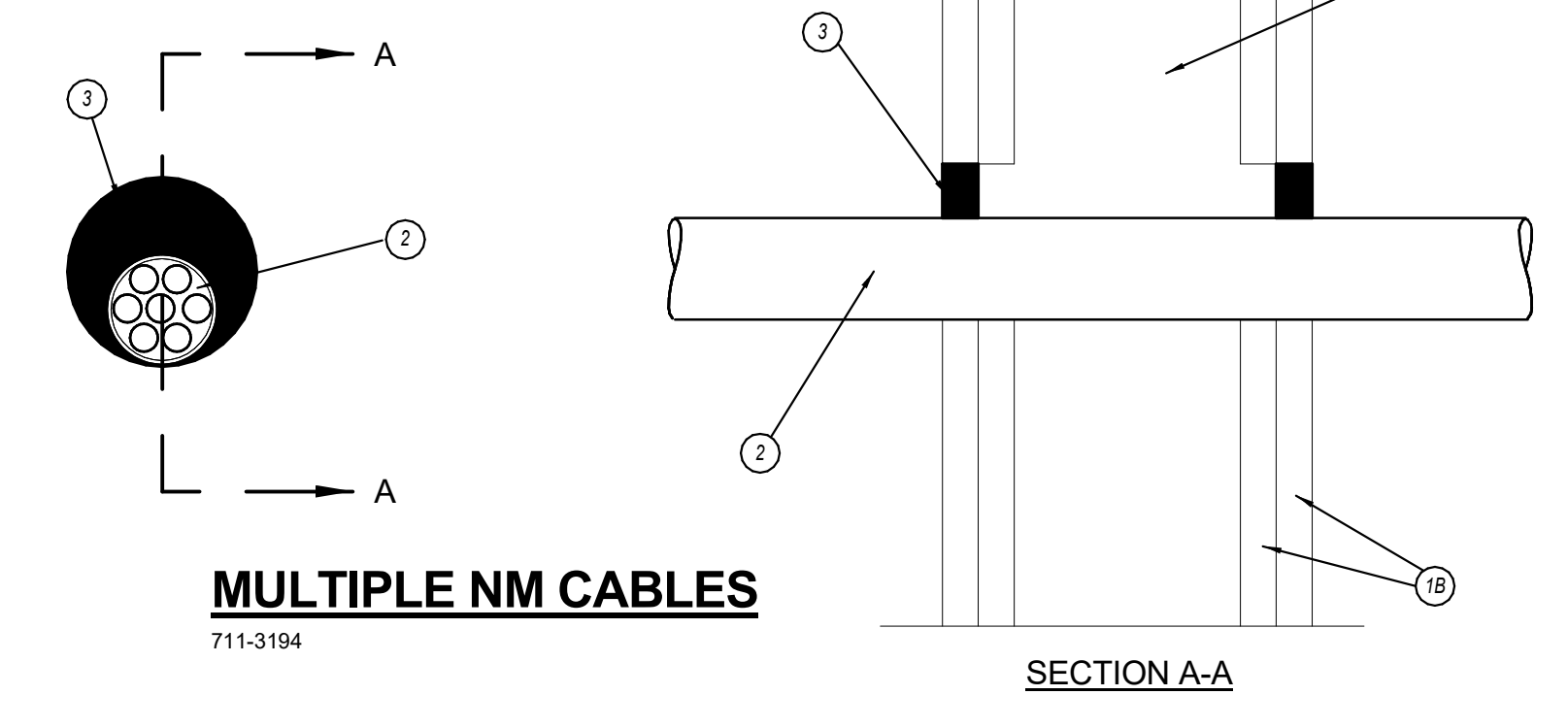
System No. C-AJ-1092
September 03, 2004
(Formerly System No. 487)
F Rating - 2 Hr
T Rating - 0 Hr
L Rating At Ambient - 2 cfm/sq. ft.
L Rating At 400° F - less than 1 cfm/sq. ft.



- FLOOR OR WALL ASSEMBLY - MIN 2-1/2 IN. THICK LIGHTWEIGHT OR NORMAL WEIGHT (100-150 PCF) CONCRETE. WHEN AREA OF THROUGH OPENING EXCEEDS 144 SQ. IN. MIN. CONCRETE THICKNESS IS 4-1/2 IN. WALL MAY ALSO BE CONSTRUCTED OF ANY UL CLASSIFIED CONCRETE BLOCKS. MAX AREA OF THROUGH OPENING NOT TO EXCEED 960 SQ. IN. WITH MAX WIDTH DIMENSION OF 14 IN. SEE CONCRETE BLOCKS (CA2T) CATEGORY IN THE FIRE RESISTANCE DIRECTORY FOR NAMES OF MANUFACTURERS.
- PIPE OR CONDUIT - NOM 6 IN. DIAM (OR SMALLER) SCHEDULE 10 (OR HEAVIER) STEEL PIPE OR STEEL CONDUIT OR NOM 4 IN. DIAM (OR SMALLER) STEEL EMT OR TYPE L (OR HEAVIER) COPPER TUBING. MULTIPLE PIPES AND/OR CONDUITS PERMITTED IN OPENING PROVIDED A MIN SEPARATION OF 1/2 IN. IS MAINTAINED BETWEEN PIPES OR CONDUITS. MIN ANNUAL SPACE BETWEEN PIPES OR CONDUITS AND EDGE OF THROUGH OPENING IS ZERO IN. (POINT CONTACT). MAX ANNUAL SPACE IS 8 IN. PIPES AND CONDUITS RIGIDLY SUPPORTED ON BOTH SIDES OF FLOOR OR WALL ASSEMBLY.
- SUPPORT HANGER - MIN 1 IN. WIDE STRIPS OR MIN 1/8 IN. (2) GAUGE GALV STEEL SHEET BENT TO FORM A "HAT" SHAPE WITH EACH "BRIM" OF THE HAT SHAPE BEARING 2 IN. ON THE TOP SURFACE OF THE FLOOR AND WITH THE "CROWN" DEPTH SUFFICIENT TO ACCOMMODATE THE PACKING MATERIAL (ITEM 4) AND THE REQUIRED FILL MATERIAL (ITEM 5) THICKNESS. SUPPORT HANGERS INSTALLED ACROSS WIDTH OF OPENING AND SPACED MAX 8 IN. O.C. WHEN MAX DIMENSION OF OPENING IS 12 IN. AND WHEN MAX ANNUAL SPACE IS 2-3/4 IN. NO SUPPORT HANGERS ARE REQUIRED. ENDS OF SUPPORT HANGERS ANCHORED TO TOP SURFACE OF FLOOR WITH STEEL ANCHOR BOLTS, OR EQUIVALENT, IN CONJUNCTION WITH STEEL FENDER WASHERS. SUPPORT HANGERS NOT REQUIRED IN WALL ASSEMBLIES.
- PACKING MATERIAL - MIN 1 IN. THICKNESS OF MINERAL WOOL BATT INSULATION FIRMLY PACKED INTO OPENING AS A PERMANENT FORM. IN FLOORS, PACKING MATERIAL TO BE INSTALLED ATOP SUPPORT HANGERS (WHEN REQUIRED) WITH TOP SURFACE RECESSED MIN 1 IN. FROM TOP SURFACE OF FLOOR WITH STEEL ANCHOR BOLTS, OR EQUIVALENT, IN CONJUNCTION WITH STEEL FENDER WASHERS. SUPPORT HANGERS NOT REQUIRED IN WALL ASSEMBLIES.
- FILL VOID OR CAVITY MATERIAL - CAULK OR SEALANT - APPLIED TO FILL THE ANNUAL SPACE TO A MIN DEPTH OF 1 IN. ON TOP SURFACE OF FLOOR OR ON BOTH SIDES OF WALL. 3M COMPANY - CP 25WB+ CAULK OR FB-3000 WT SEALANT.

*BEARING THE UL CLASSIFICATION MARKING

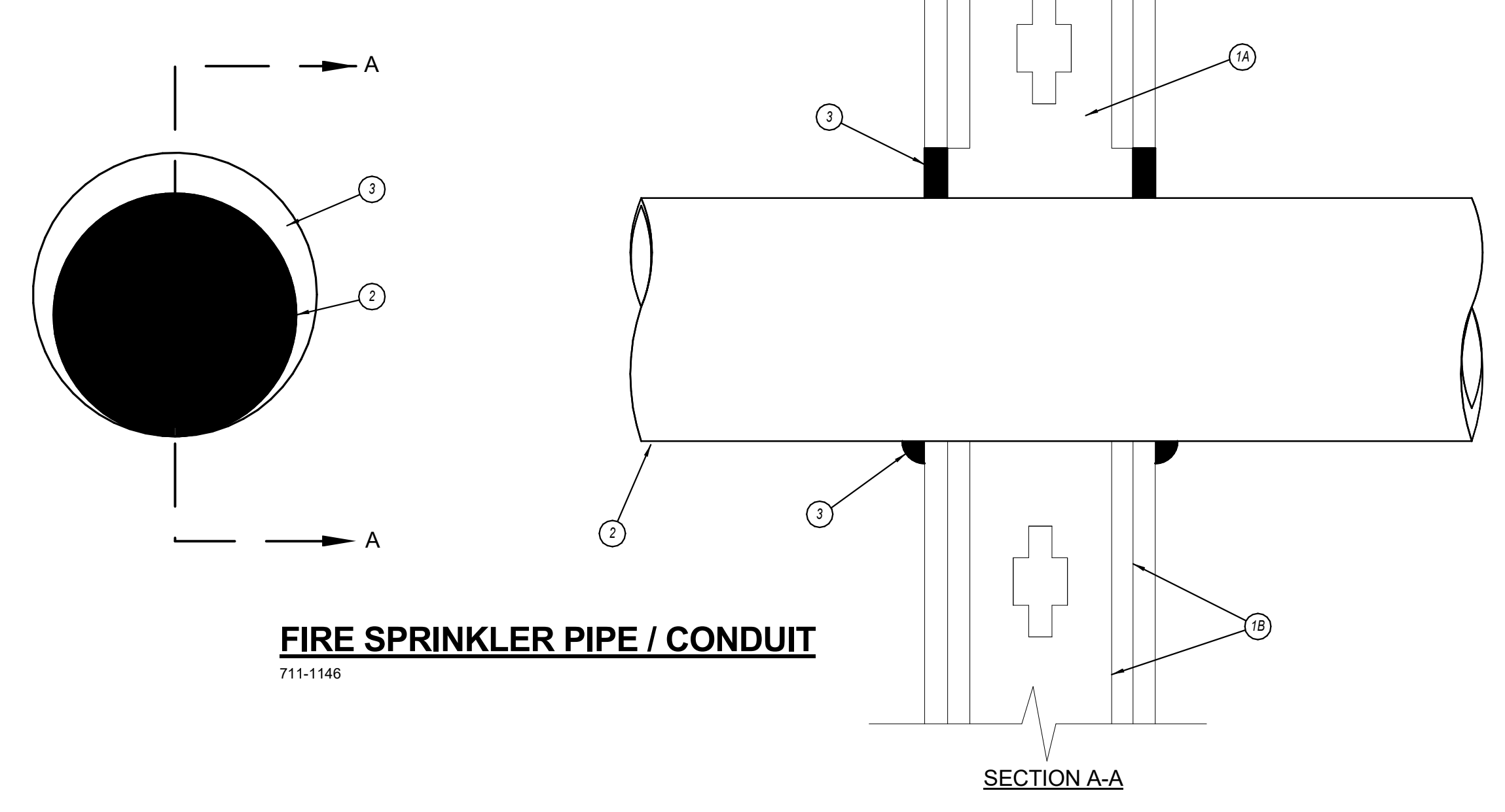
System No. W-L-3194
May 19, 2005
F Ratings - 1 & 2 Hr (See Item 1)
T Ratings - 0 & 1 1/2 Hr (See Item 1)



- MULTIPLE NM CABLES**
711-3194
- WALL ASSEMBLY - THE 1 OR 2 HR FIRE RATED GYPSUM BOARD/STUD WALL ASSEMBLY SHALL BE CONSTRUCTED OF THE MATERIALS AND IN THE MANNER DESCRIBED IN THE INDIVIDUAL U300, U400 OR U400 SERIES WALL OR PARTITION DESIGN IN THE UL FIRE RESISTANCE DIRECTORY AND SHALL INCLUDE THE FOLLOWING CONSTRUCTION FEATURES:
 - STUDS - WALL FRAMING MAY CONSIST OF EITHER WOOD STUDS OR STEEL CHANNEL STUDS. WOOD STUDS TO CONSIST OF NOM 2 IN. BY 4 IN. (51 MM BY 102 MM) LUMBER SPACED 16 IN. (406 MM) OC. STEEL STUDS TO BE MIN 2-1/2 IN. (64 MM) WIDE SPACED MAX 24 IN. (610 MM) OC.
 - GYPSUM BOARD - THE GYPSUM BOARD TYPE, THICKNESS, NUMBER OF LAYERS, FASTENER TYPE AND SHEET ORIENTATION SHALL BE AS SPECIFIED IN THE INDIVIDUAL U300 OR U400 SERIES DESIGN IN THE UL FIRE RESISTANCE DIRECTORY. MAX DIAM OF OPENING IS 2-1/2 IN. (64 MM). THE HOURLY F RATING OF THE FIRESTOP SYSTEM IS EQUAL TO THE HOURLY F RATING OF THE WALL ASSEMBLY IN WHICH IT IS INSTALLED. THE HOURLY T RATING IS 0 AND 1/2 HR FOR 1 AND 2 HR RATED ASSEMBLIES, RESPECTIVELY.
 - CABLE - ONE CABLE INSTALLED ECCENTRICALLY OR CONCENTRICALLY WITHIN OPENING. ANNUAL SPACE BETWEEN CABLE AND PERIPHERY OF OPENING TO BE MIN 0 IN. (POINT CONTACT) TO MAX 1 IN. (25 MM) TO MAX 25 MM. CABLE TO BE RIGIDLY SUPPORTED ON BOTH SIDES OF THE WALL. THE FOLLOWING TYPES AND SIZES OF CABLE MAY BE USED:
 - MAX 500 PAIR NO. 22 AWG (OR SMALLER) COPPER CONDUCTOR WITH POLYVINYL CHLORIDE (PVC) INSULATION AND JACKETING MATERIAL.
 - MAX 1 C NO. 350 KCMIL (OR SMALLER) COPPER CONDUCTOR CABLE WITH CROSS-LINKED POLYETHYLENE (XLPE) OR PVC JACKET.
 - MAX 1 C NO. 12 AWG (OR SMALLER) COPPER CONDUCTOR POWER AND CONTROL CABLES WITH XLPE OR PVC INSULATION WITH XLPE OR PVC JACKET.
 - MAX 3 C NO. 20 AWG (OR SMALLER) COPPER OR ALUMINUM CONDUCTOR SER CABLES WITH XLPE OR PVC INSULATION AND JACKET.
 - MAX 4 C NO. 20 AWG (OR SMALLER) COPPER CONDUCTOR, ALUMINUM CLAD OR STEEL CLAD TECK 90 CABLE WITH OR WITHOUT PVC JACKETED.
 - MAX 10/125 FIBER OPTIC (F) CABLE WITH PVC INSULATION AND JACKET.
 - MAX 3 C WITH GROUND NO. 8 AWG (OR SMALLER) COPPER CONDUCTOR NM CABLE WITH PVC INSULATION AND JACKET.
 - MAX 10/125 COAXIAL CABLE WITH FLUOROPOLYMER ETHYLENE INSULATION AND JACKET.
 - MAX 4 PAIR NO. 24 AWG (OR SMALLER) COPPER CONDUCTOR DATA CABLE WITH PLAR JACKET AND INSULATION.
 - THROUGH PENETRATING PRODUCT - ANY CABLES, ARMORED CABLE, OR METAL CLAD CABLE CURRENTLY CLASSIFIED UNDER THE THROUGH PENETRATING PRODUCT CATEGORY. SEE THROUGH PENETRATING PRODUCT (XPLV) CATEGORY IN THE FIRE RESISTANCE DIRECTORY FOR NAMES OF MANUFACTURERS.
 - FILL VOID OR CAVITY MATERIAL - CAULK OR SEALANT - MIN 5/8 IN. (16 MM) THICKNESS OF CAULK APPLIED WITHIN ANNULUS, FLUSH WITH BOTH SURFACES OF WALL. MIN 1/4 IN. (6 MM) DIAM BEAD OF CAULK APPLIED TO GYPSUM BOARD/CABLE INTERFACE AT POINT CONTACT LOCATION ON BOTH SIDES OF WALL. 3M COMPANY - IC 15WB+ CP 25WB+ CAULK OR FB-3000 WT SEALANT.

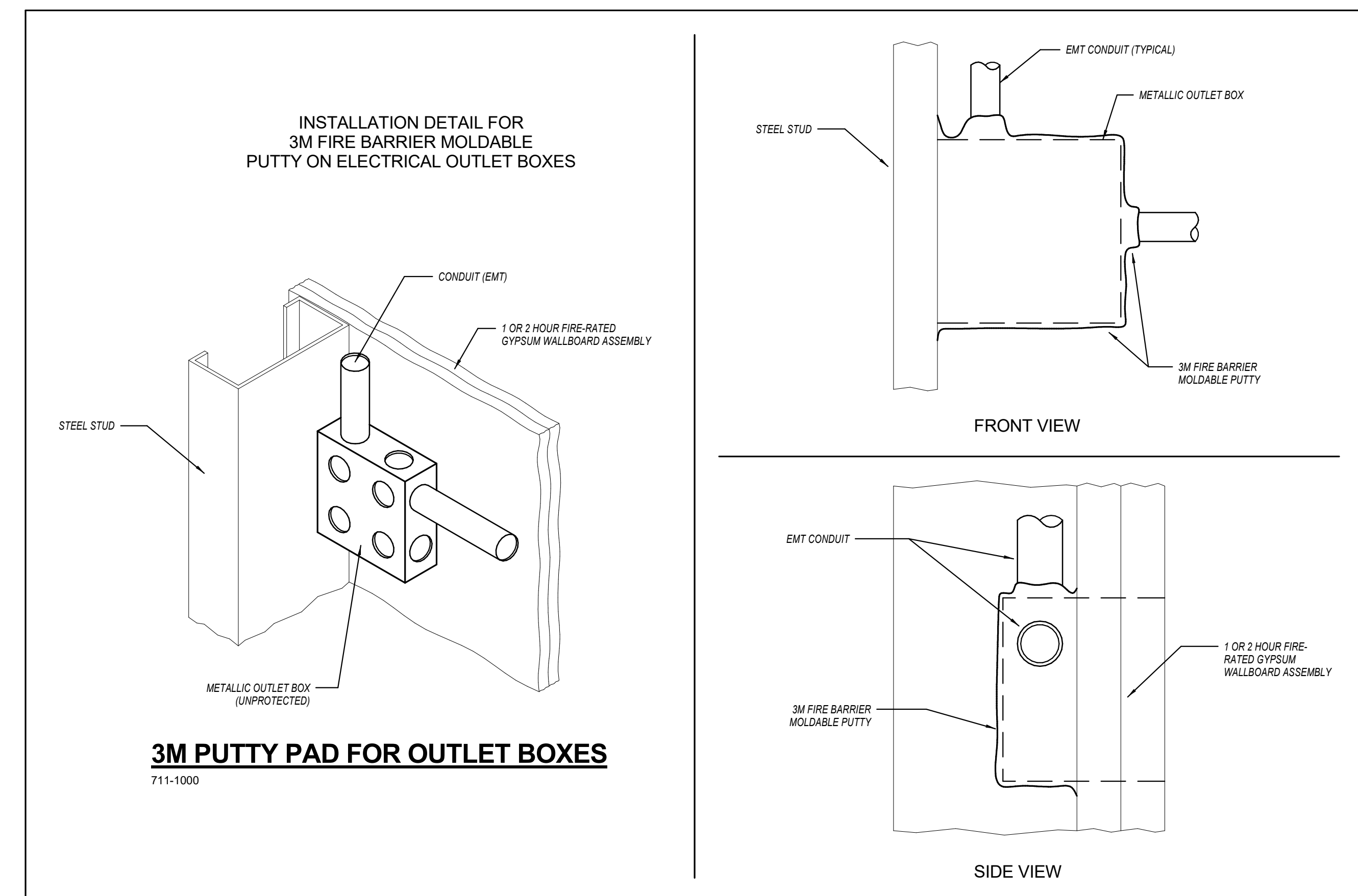
*BEARING THE UL CLASSIFICATION MARKING

System No. W-L-1146
September 3, 2004
F Ratings - 1 & 2 Hr (See Item 1)
T Rating - 0 Hr



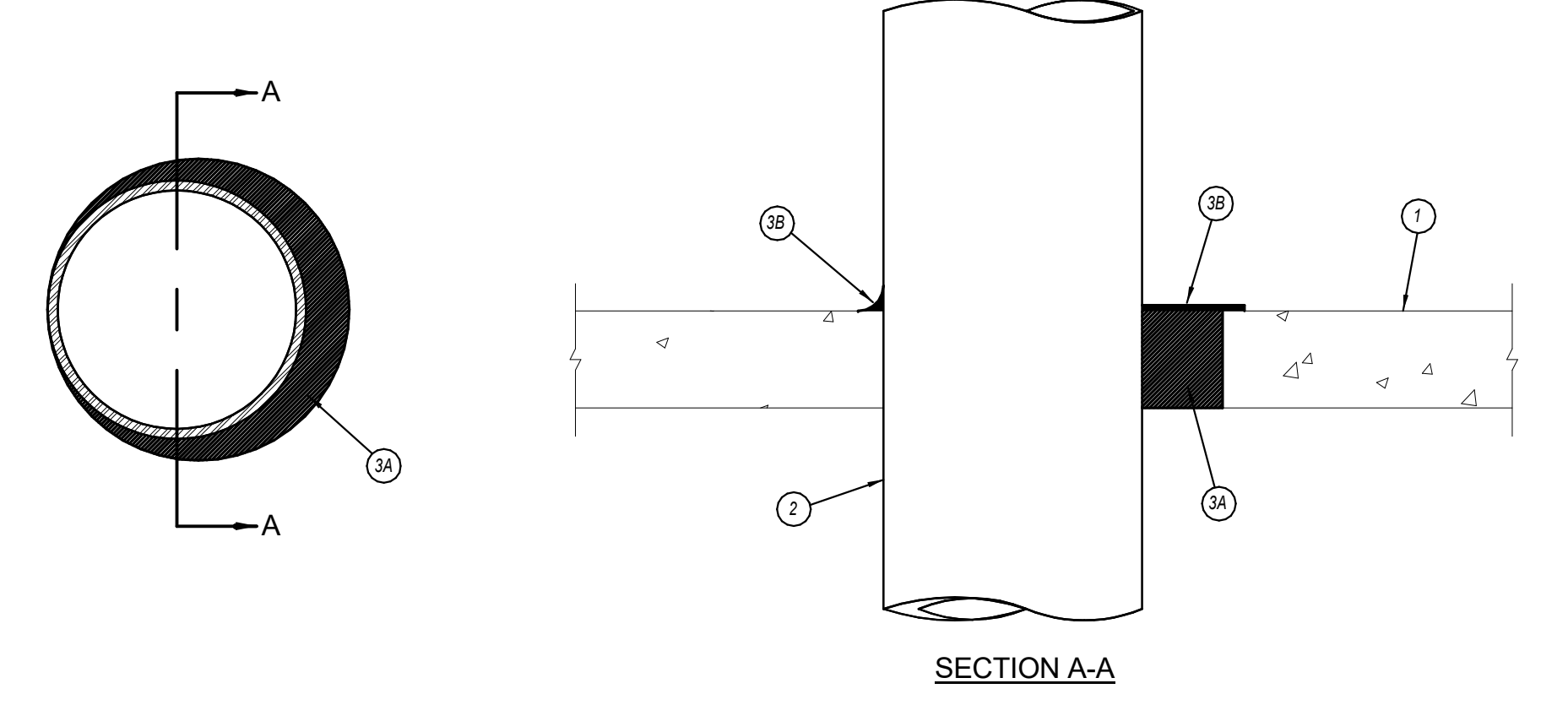
- FIRE SPRINKLER PIPE / CONDUIT**
711-1146
- WALL ASSEMBLY - THE 1 OR 2 HR FIRE RATED GYPSUM WALLBOARD/STUD WALL ASSEMBLY SHALL BE CONSTRUCTED OF THE MATERIALS AND IN THE MANNER DESCRIBED IN THE INDIVIDUAL U300 OR U400 SERIES WALL OR PARTITION DESIGN IN THE UL FIRE RESISTANCE DIRECTORY AND SHALL INCLUDE THE FOLLOWING CONSTRUCTION FEATURES:
 - STUDS - WALL FRAMING MAY CONSIST OF EITHER WOOD STUDS OR STEEL CHANNEL STUDS. WOOD STUDS TO CONSIST OF NOM 2 IN. BY 4 IN. (51 MM BY 102 MM) LUMBER SPACED 16 IN. (406 MM) OC. STEEL STUDS TO BE MIN 3-1/2 IN. (89 MM) WIDE AND SPACED MAX 24 IN. (610 MM) OC. WHEN STEEL STUDS ARE USED AND THE DIAM OF OPENING EXCEEDS THE WIDTH OF STUD CAVITY, THE OPENING SHALL BE FRAMED ON ALL SIDES USING LENGTHS OF STEEL STUD INSTALLED BETWEEN THE VERTICAL STUDS AND SCREW ATTACHED TO THE STEEL STUD AT EACH END. THE FRAMED OPENING IN THE WALL SHALL BE 4 IN. TO 6 IN. (102 TO 152 MM) WIDER AND 1/4 IN. TO 6 IN. (152 TO 152 MM) HIGHER THAN THE DIAM OF THE PENETRATING ITEM SUCH THAT WHEN THE PENETRATING ITEM IS CENTERED IN THE OPENING, A 2 IN. TO 3 IN. (51 MM TO 76 MM) CLEARANCE IS PRESENT BETWEEN THE PENETRATING ITEM AND THE FRAMING IN ALL FOUR SIDES.
 - GYPSUM BOARD - THE GYPSUM WALLBOARD TYPE, THICKNESS, NUMBER OF LAYERS, FASTENER TYPE AND SHEET ORIENTATION SHALL BE AS SPECIFIED IN THE INDIVIDUAL U300 OR U400 SERIES DESIGN IN THE UL FIRE RESISTANCE DIRECTORY. MAX DIAM OF OPENING IS 2-1/2 IN. (64 MM) FOR STEEL STUD WALLS. MAX DIAM OF OPENING IS 14-1/2 IN. (368 MM) FOR WOOD STUD WALLS. THE HOURLY F RATING OF THE FIRESTOP SYSTEM IS EQUAL TO THE HOURLY F RATING OF THE WALL ASSEMBLY IN WHICH IT IS INSTALLED.
 - THROUGH PENETRANT - ONE METALLIC PIPE, CONDUIT OR TUBING INSTALLED EITHER CONCENTRICALLY OR ECCENTRICALLY WITHIN THE FIRESTOP SYSTEM. THE ANNUAL SPACE BETWEEN PIPE, CONDUIT OR TUBING AND PERIPHERY OF OPENING SHALL BE MIN 0 IN. (POINT CONTACT) TO MAX 2 IN. (51 MM). PIPE, CONDUIT OR TUBING TO BE RIGIDLY SUPPORTED ON BOTH SIDES OF WALL ASSEMBLY. THE FOLLOWING TYPES AND SIZES OF METALLIC PIPES, CONDUITS OR TUBING MAY BE USED:
 - STEEL PIPE - NOM 24 IN. (610 MM) DIAM (OR SMALLER) SCHEDULE 10 (OR HEAVIER) STEEL PIPE.
 - IRON PIPE - NOM 24 IN. (610 MM) DIAM (OR SMALLER) SERVICE WEIGHT (OR HEAVIER) CAST IRON SOIL PIPE, NOM 12 IN. (305 MM) DIAM (OR SMALLER) OR CLASS 50 (OR HEAVIER) DUCTILE IRON PRESSURE PIPE.
 - CONDUIT - NOM 6 IN. (152 MM) DIAM (OR SMALLER) STEEL CONDUIT OR NOM 4 IN. (102 MM) DIAM (OR SMALLER) STEEL ELECTRICAL METALLIC TUBING.
 - COPPER TUBING - NOM 8 IN. (152 MM) DIAM (OR SMALLER) TYPE L (OR HEAVIER) COPPER TUBING.
 - COPPER PIPE - NOM 6 IN. (152 MM) DIAM (OR SMALLER) REGULAR (OR HEAVIER) COPPER PIPE.
 - FILL VOID OR CAVITY MATERIALS - CAULK OR SEALANT - MIN 5/8 IN. (16 MM) THICKNESS OF FILL MATERIAL APPLIED WITHIN THE ANNULUS, FLUSH WITH BOTH SURFACES OF WALL. MIN 1/2 IN. (13 MM) DIAM BEAD OF CAULK APPLIED TO THE PENETRANT/WALLBOARD INTERFACE AT THE POINT CONTACT LOCATION ON BOTH SIDES OF WALL. 3M COMPANY - CP 25WB+ CAULK OR FB-3000 WT SEALANT.

*BEARING THE UL CLASSIFICATION MARK



3M PUTTY PAD FOR OUTLET BOXES
711-1000

System No. C-AJ-1275
January 31, 2006
F Rating - 2 Hr
T Rating - 0 Hr



- FLOOR OR WALL ASSEMBLY - MIN 4-1/2 IN. (114 MM) THICK REINFORCED LIGHTWEIGHT OR NORMAL WEIGHT (100-150 PCF OR 1600-2400 KG/M3) CONCRETE. WALL MAY ALSO BE CONSTRUCTED OF ANY UL CLASSIFIED CONCRETE BLOCKS. MAX DIAM OF OPENING IS 8 IN. (203 MM). SEE CONCRETE BLOCKS (CA2T) CATEGORY IN THE FIRE RESISTANCE DIRECTORY FOR NAMES OF MANUFACTURERS.
- THROUGH PENETRANT - ONE METALLIC PIPE, CONDUIT OR TUBING INSTALLED EITHER CONCENTRICALLY OR ECCENTRICALLY WITHIN THE FIRESTOP SYSTEM. THE ANNUAL SPACE BETWEEN PIPE, CONDUIT OR TUBING AND PERIPHERY OF OPENING SHALL BE MIN 0 IN. (POINT CONTACT) TO MAX 1-7/8 IN. (48 MM). PIPE, CONDUIT OR TUBING TO BE RIGIDLY SUPPORTED ON BOTH SIDES OF WALL ASSEMBLY. THE FOLLOWING TYPES AND SIZES OF METALLIC PIPES, CONDUITS OR TUBING MAY BE USED:
 - STEEL PIPE - NOM 6 IN. (152 MM) DIAM (OR SMALLER) SCHEDULE 10 (OR HEAVIER) STEEL PIPE.
 - IRON PIPE - NOM 6 IN. (152 MM) DIAM (OR SMALLER) SERVICE WEIGHT (OR HEAVIER) CAST IRON SOIL PIPE, NOM 6 IN. (152 MM) DIAM (OR SMALLER) OR CLASS 50 (OR HEAVIER) DUCTILE IRON PRESSURE PIPE.
 - CONDUIT - NOM 6 IN. (152 MM) DIAM (OR SMALLER) STEEL CONDUIT OR NOM 4 IN. (102 MM) DIAM (OR SMALLER) STEEL ELECTRICAL METALLIC TUBING.
 - COPPER TUBING - NOM 8 IN. (152 MM) DIAM (OR SMALLER) TYPE L (OR HEAVIER) COPPER TUBING.
 - COPPER PIPE - NOM 6 IN. (152 MM) DIAM (OR SMALLER) REGULAR (OR HEAVIER) COPPER PIPE.
- FIRESTOP SYSTEM - THE DETAILS OF THE FIRESTOP SYSTEM SHALL BE AS FOLLOWS:
 - PACKING MATERIAL - MIN 4-1/2 IN. (114 MM) THICKNESS OF MIN 4 PCF (84 KG/M3) MINERAL WOOL BATT INSULATION FIRMLY PACKED INTO OPENING AS A PERMANENT FORM. PACKING MATERIAL TO BE FLUSH WITH TOP SURFACE OF FLOOR OR FROM BOTH SURFACES OF WALL.
 - FILL VOID OR CAVITY MATERIAL - MIN 1/8 IN. (1.6 MM) DRY THICKNESS (MIN 1/8 IN. OR 3.2 MM WET THICKNESS) OF FILL MATERIAL SPRAYED OR BRUSHED INTO ANNULAR SPACE ON TOP SURFACE OF FLOOR OR BOTH SURFACES OF WALL TO COMPLETELY COVER MINERAL WOOL AND OVERLAP A MIN OF 1 IN. (25 MM) ONTO PENETRANT AND TOP SURFACE OF FLOOR OR BOTH SURFACES OF WALL. 3M COMPANY - FREDAM® SPRAY 200.

*BEARING THE UL CLASSIFICATION MARK



Kansas Certificate of Authority #A-516
Civil Engineer
Kaw Valley Engineering
KS Certificate of Authority #29241
1627 Sunflower Lane
Salina, KS 67401
785-823-3400

Structural Engineer
Bob D. Campbell & Co.
KS Certificate of Authority #000442
4338 Bellview
Kansas City, MO 64111
816-778-7149

MEP Engineer
PKMR Engineers, Inc.
KS Certificate of Authority #E-1682
13300 W. 98th St.
Lenexa, KS 66215
913-492-2400

JOB NUMBER 22002

SALINA FIRE STATION #4

EAST CRAWFORD STREET
& MARKLEY ROAD
SALINA, KS 67401
CITY OF SALINA
756 Minnesota Ave., Suite 662 Kansas City, Kansas 66101 Tel. 816.300.4101 Fax 816.300.4102



BID SET DOCUMENTS

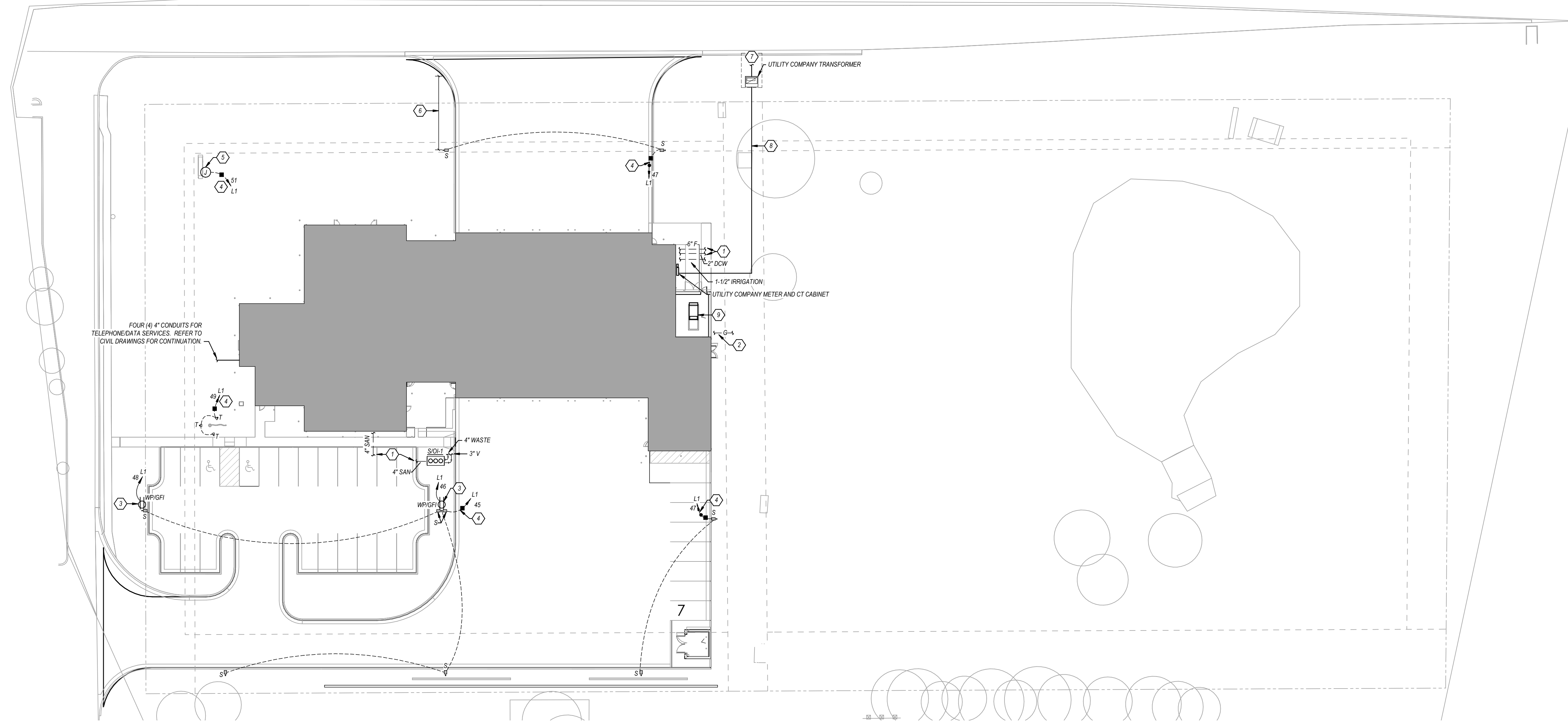
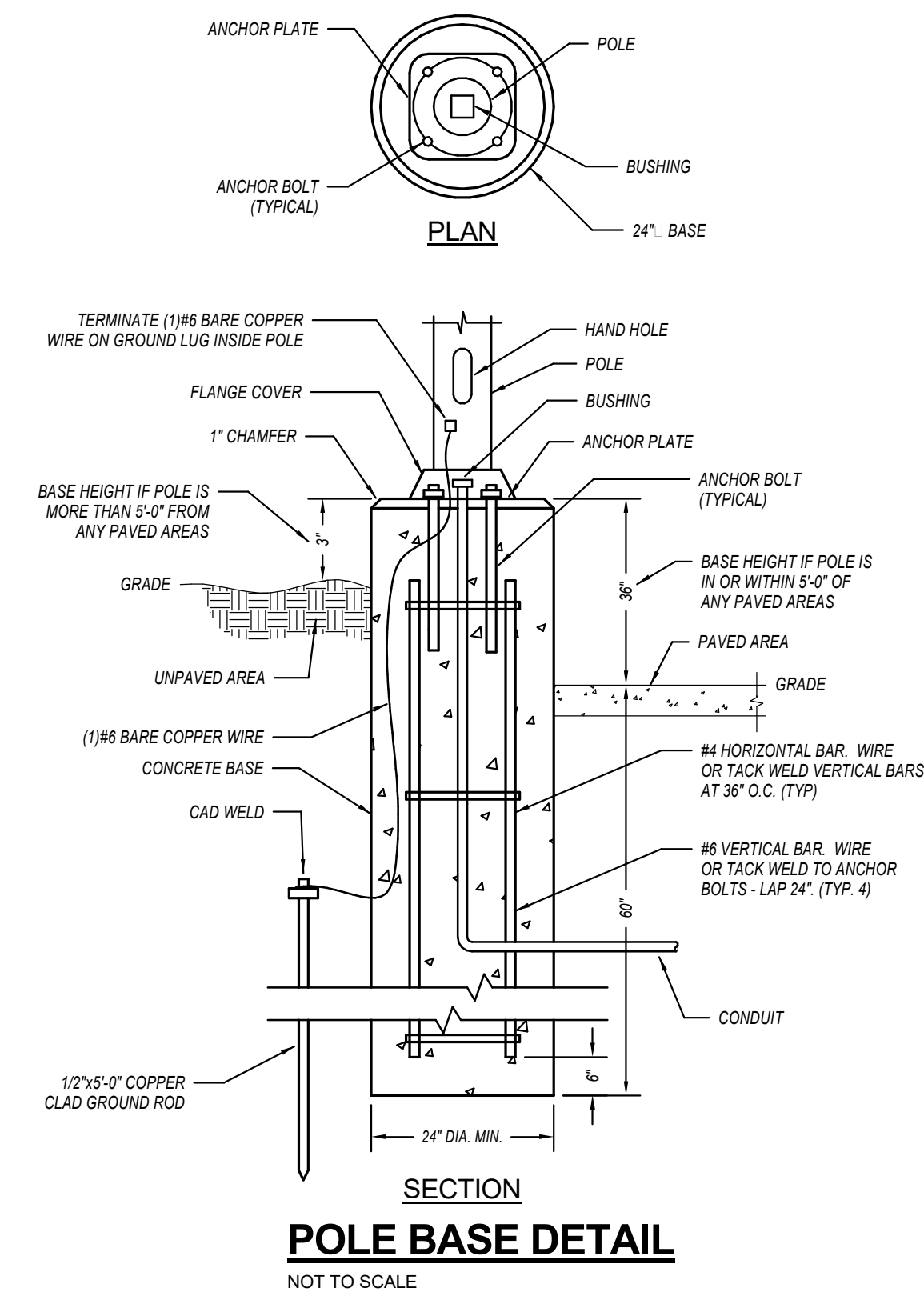
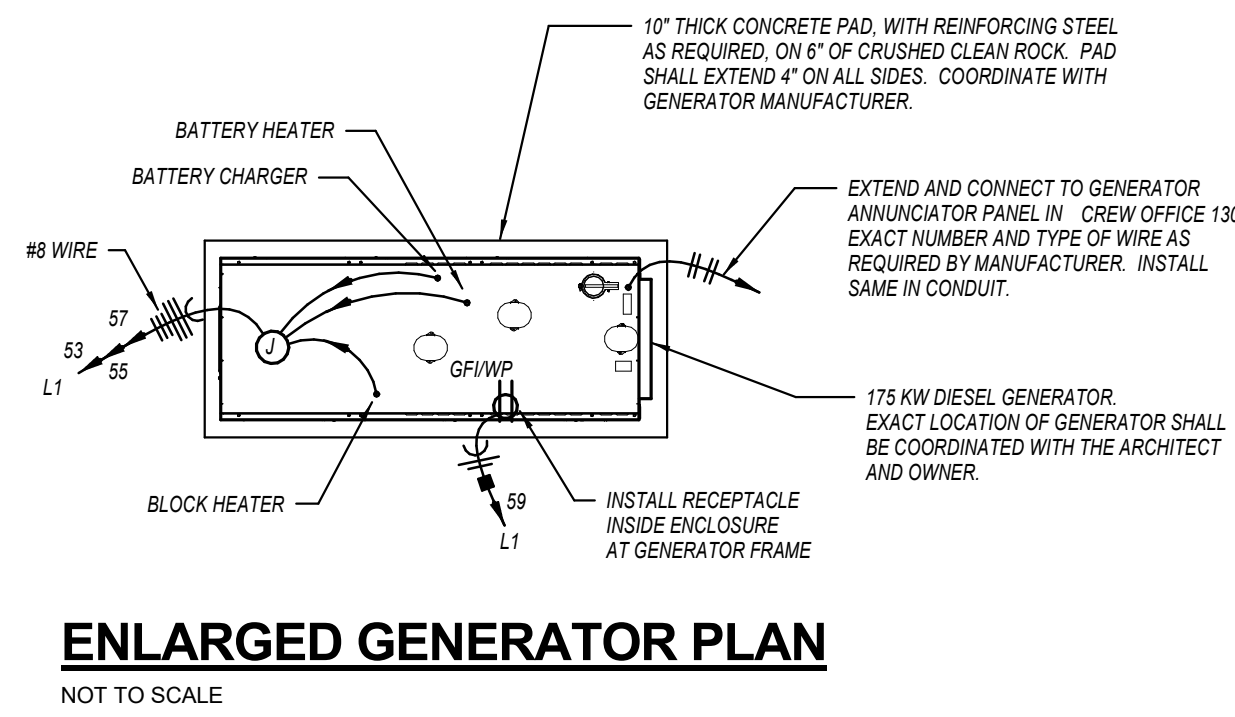
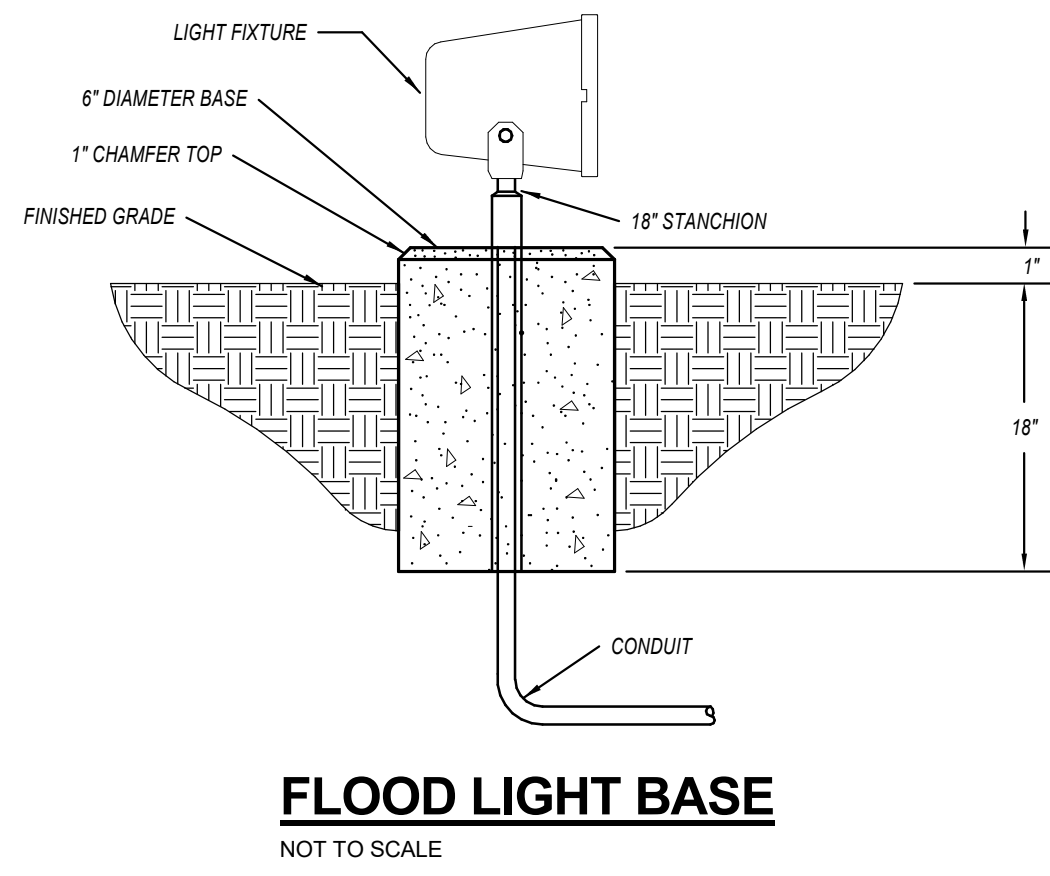
ISSUE DATE	09/09/2024
No. Description	Date

WSKF, Inc. © 2024

THROUGH PENETRATION DETAILS
MEP0.02



PEARSON KENT MCKINLEY RAFF ENGINEERS, LLC
13300 W. 98TH STREET
LENEXA, KS 66215
913.492.2400
WWW.PKMRENG.COM



MEP SITE PLAN
SCALE: 1/4" = 30'-0"

GENERAL SITE NOTES

- REFER TO GENERAL NOTES ON MEP COVER SHEET FOR ADDITIONAL REQUIREMENTS OF WORK.
- REFER TO CIVIL PLANS FOR CONTINUATION OF SERVICES BEYOND 5'-0" FROM BUILDING UNLESS OTHERWISE SHOWN.
- REFER TO RESPECTIVE FLOOR PLANS FOR CONTINUATION OF SERVICES INSIDE BUILDING AND/OR EXACT LOCATIONS OF EQUIPMENT.
- CONTACT UTILITY LOCATING SERVICE TO LOCATE EXACT LOCATION OF ALL EXISTING UTILITIES BELOW GRADE.

KEYED NOTES - SITE

- REFER TO CIVIL FOR CONTINUATION.
- GAS METER AND UTILITY REGULATOR: ESTIMATED GAS LOAD: 1310 MBH NATURAL GAS AT 7-11" W.C. REFER TO CIVIL FOR CONTINUATION.
- RECEPTACLE MOUNTED IN LIGHT POLE.
- ROUTE EXTERIOR LIGHTING THROUGH LIGHTING CONTROL PANEL LCL1, THEN HOMERUN.
- POWER CONNECTION TO MONUMENT SIGN. COORDINATE ALL REQUIREMENTS WITH MONUMENT SIGN PROVIDER.
- ENSURE LIGHT POLES ARE INSTALLED OUTSIDE OF 20' UTILITY EASEMENT.
- ENSURE LIGHT POLES ARE INSTALLED OUTSIDE OF 30' UTILITY EASEMENT.
- SECONDARY SERVICE ELECTRICAL FEEDER. SEE RISER DIAGRAM ON SHEET E4.01 FOR MORE INFORMATION.
- STANDBY GENERATOR. REFER TO DETAIL ON THIS SHEET AND RISER DIAGRAM FOR ADDITIONAL INFORMATION.



Kansas Certificate of Authority #A-516

Civil Engineer
Kaw Valley Engineering
KS Certificate of Authority #29241
1627 Sunflower Lane
Salina, KS 67401
785-823-3400

Structural Engineer
Bob D. Campbell & Co.
KS Certificate of Authority #000442
4338 Bellview
Kansas City, MO 64111
816-778-7149

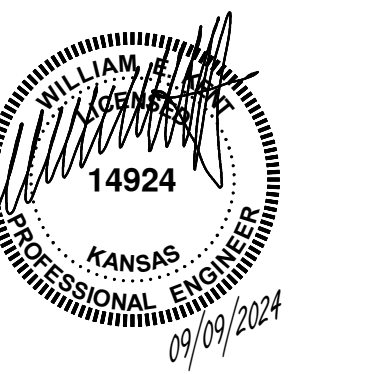
MEP Engineer
PKMR Engineers, Inc.
KS Certificate of Authority #E-1682
13300 W. 98th St.
Lenexa, KS 66215
913-492-2400

JOB NUMBER 22003

SALINA FIRE STATION #4

EAST CRAWFORD STREET
& MARKLEY ROAD
SALINA, KS 67401
CITY OF SALINA

755 Minnesota Ave., Suite 662 Kansas City, Kansas 66101 Tel: 816.300.4101 Fax: 816.300.4102



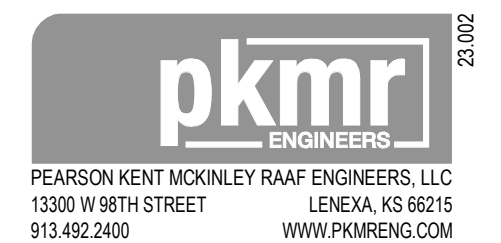
BID SET DOCUMENTS

ISSUE DATE 09/09/2024
No. Description Date

WSKF, Inc. © 2024

MEP SITE PLAN

MEP1.01



PEARSON KENT MCKINLEY RAFF ENGINEERS, LLC
13300 W. 98TH STREET LENEXA, KS 66215
913.492.2400 WWW.PKMRENG.COM

GENERAL ROOF PLAN NOTES

- REFER TO GENERAL DEMOLITION NOTES ON MEP COVER SHEET FOR ADDITIONAL REQUIREMENTS OF WORK.
- MAINTAIN CODE-REQUIRED DISTANCES FOR ALL VENTS, EXHAUSTS, ETC. FROM MECHANICAL EQUIPMENT OUTSIDE AIR INTAKES.
- ALL ELECTRICAL EQUIPMENT AND DEVICES SHALL BE MOUNTED A MINIMUM OF 36" ABOVE THE ROOF ON SUITABLE STEEL SUPPORTS UNLESS OTHERWISE NOTED.

KEYED NOTES - ROOF

- #12 EXHAUST UP THROUGH ROOF. TERMINATE WITH VENT CAP.
- #16 ROOF MOUNTED HEAVY-DUTY DISCONNECT SWITCH IN NEMA 3R ENCLOSURE.
- INSTALL DEVICE ON UNISTRUT NEAR MECHANICAL EQUIPMENT.



Kansas Certificate of Authority #A-516

Civil Engineer
 Kaw Valley Engineering
 KS Certificate of Authority #29241
 1627 Sunflower Lane
 Salina, KS 67401
 785-823-3400

Structural Engineer
 Bob D. Campbell & Co.
 KS Certificate of Authority #000442
 4338 Bellview
 Kansas City, MO 64111
 816-778-7149

MEP Engineer
 PKMR Engineers, Inc.
 KS Certificate of Authority #E-1682
 13300 W. 98th St.
 Lenexa, KS 66215
 913-492-2400

JOB NUMBER 22003

SALINA FIRE STATION #4

EAST CRAWFORD STREET
 & MARKLEY ROAD
 SALINA, KS 67401
 CITY OF SALINA

755 Minnesota Ave., Suite 662 Kansas City, Kansas 66101 Tel. 816.300.4101 Fax 816.300.4102



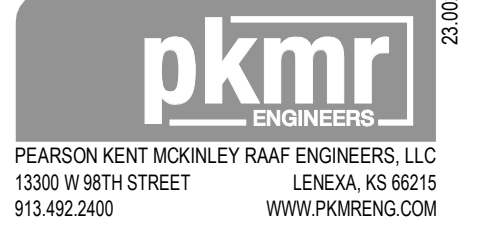
BID SET DOCUMENTS

ISSUE DATE	09/09/2024
No. Description	Date

WSKF, Inc. © 2024

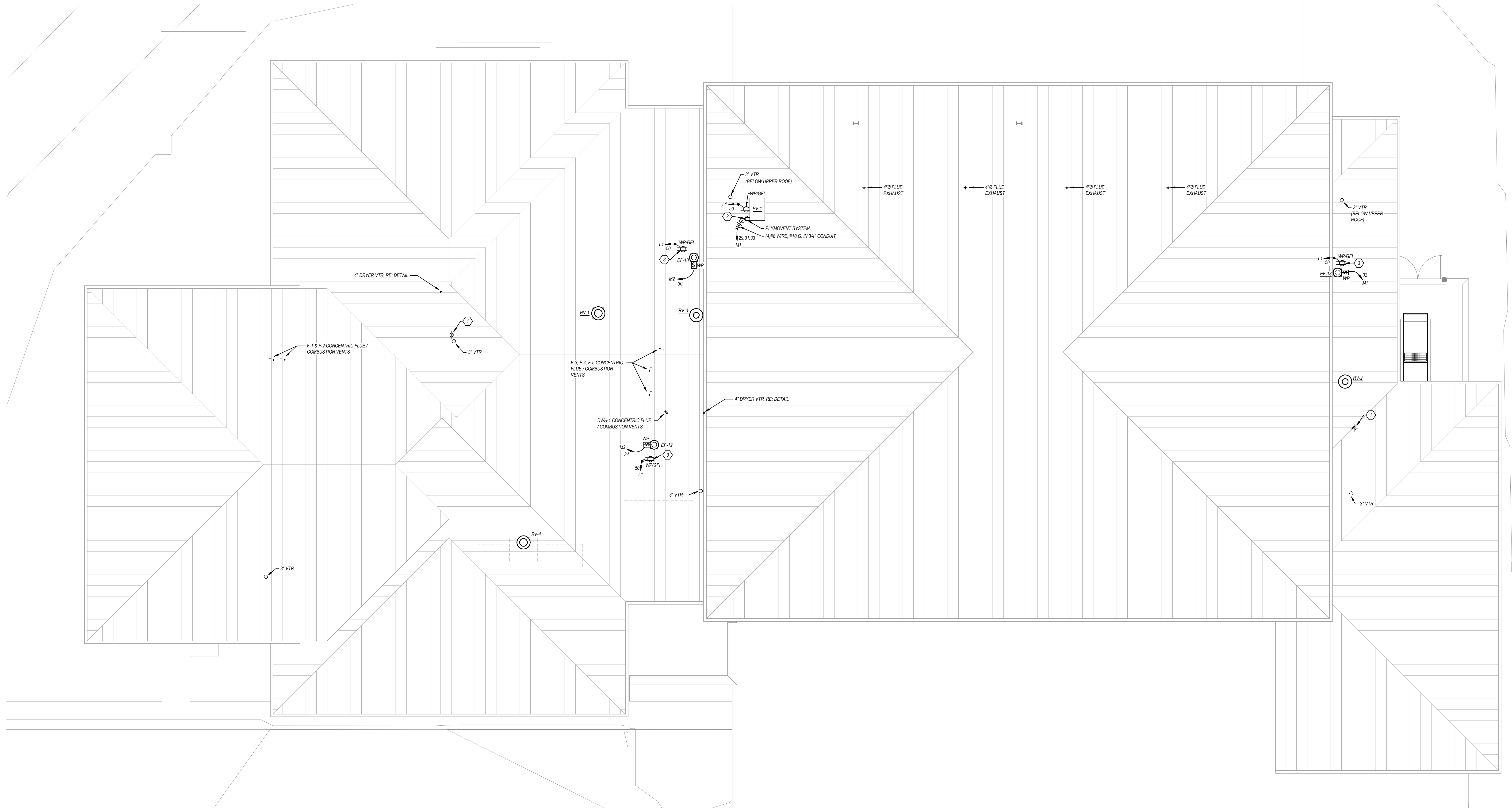
MEP ROOF PLAN

MEP2.01



PEARSON KENT MCKINLEY RAFF ENGINEERS, LLC
 13300 W. 98TH STREET
 LENEXA, KS 66215
 913.492.2400
 WWW.PKMRENG.COM

MEP ROOF PLAN
SCALE: 1/8" = 1'-0"





Kansas Certificate of Authority #A-516

Civil Engineer
Kaw Valley Engineering
KS Certificate of Authority #29241
1427 Sunflower Lane
Salina, KS 67401
785-823-3400

Structural Engineer
Bob D. Campbell & Co.
KS Certificate of Authority
#000442
4338 Bellview
Kansas City, MO 64111
816-778-7149

M/E/P Engineer
PKMR Engineers, Inc.
KS Certificate of Authority
#E-1682
13300 W. 98th St.
Lenexa, KS 66215
913-492-2400

JOB NUMBER 22003

SALINA FIRE STATION #4

EAST CRAWFORD STREET
& MARKLEY ROAD
SALINA, KS 67401
CITY OF SALINA

755 Minnesota Ave., Suite 662 Kansas City, Kansas 66101 Tel. 816.300.4101 Fax 816.300.4102



BID SET DOCUMENTS

ISSUE DATE 09/09/2024
No. Description Date

WSKF, Inc. © 2024

HVAC PLAN

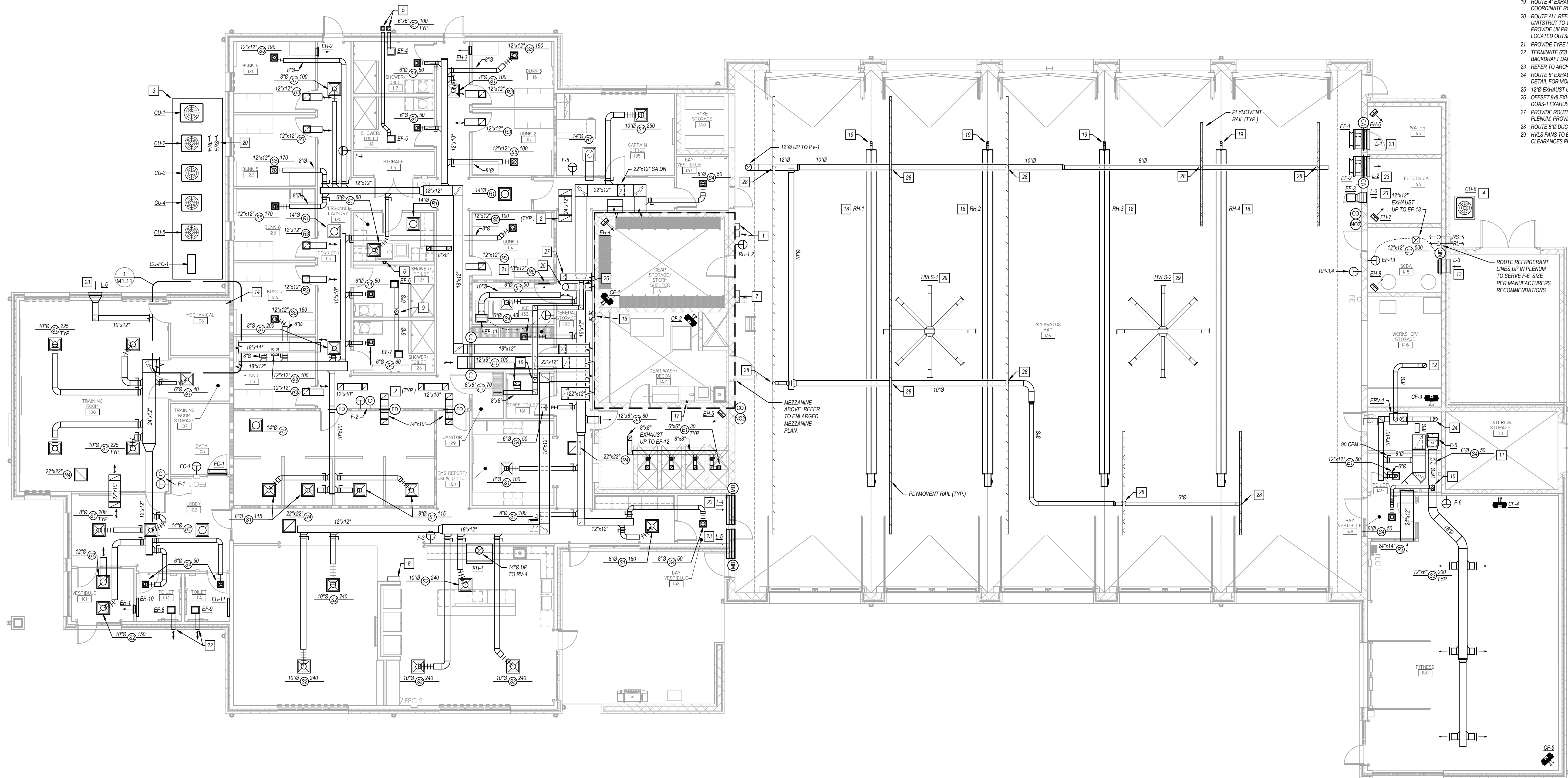
M1.01

GENERAL HVAC NOTES

1. REFER TO GENERAL NOTES ON MEP COVER SHEET FOR ADDITIONAL REQUIREMENTS OF ROOM.
2. ROUND BRANCH DUCT RUNOUTS AND FLEXIBLE DUCT SHALL BE THE SAME SIZE AS THE DIFFUSER NECK UNLESS NOTED OTHERWISE.
3. MAXIMUM FLEXIBLE DUCT LENGTH SHALL BE 5'-0" ALL AIR DISTRIBUTION DEVICES SHALL HAVE LOCKABLE VOLUME CONTROL DEVICES.
4. ALL 90 DEGREE TURNING ELBOWS SHALL BE SMOOTH ROUND OR SQUARE WITH TURNING VANES.
5. DUCT SIZES SHOWN ON PLANS ARE INSIDE FREE AREA.
6. PROVIDE ACCESS DOORS IN DUCTS AHEAD OF ALL AUTOMATIC, FIRE, AND SMOKE DAMPERS.
7. FOR BALANCING THE OUTSIDE AIRFLOW QUANTITIES, REFER TO HVAC SCHEDULES.
8. PROVIDE SOURCE CAPTURE EXHAUST SYSTEM IN THE APPARATUS BAY. PLACEMENT SYSTEM OF APPROVED EQUAL WITH 10HP TEC STYLE ROOF-MOUNTED FAN.

KEYED NOTES - HVAC

1. PROVIDE STANDARD CONTROLLER FOR HX-S-1 & HX-S-2
2. RETURN AIR BOOT, TO BE SIZED AS NOTED. REF. DETAIL FOR MORE INFORMATION.
3. PROVIDE CONTINUOUS CONCRETE PAD TO HOUSE MECHANICAL EQUIPMENT. CONCRETE PAD TO BE MINIMUM 4" IN THICK.
4. PROVIDE HOUSEKEEPING PAD PER MANUFACTURERS RECOMMENDATIONS.
5. TERMINATE EXHAUST IN SOFFIT. COORDINATE FINAL FINISH AND COLOR WITH ARCHITECT.
6. PROVIDE DRYER BOX, ROUTE # EXHAUST UP AND TERMINATE. REFER TO DETAIL FOR TERMINATION REQUIREMENTS.
7. FURNISH AND INSTALL CARBON MONOXIDE/NITROGEN DIOXIDE DETECTION SYSTEM IN APPARATUS BAY. MONITORING MODEL, FDS DIV 20 OR EQUAL, AND ALL ASSOCIATED ACCESSORIES AS REQUIRED TO PROVIDE CONTROL AS INDICATED ON DRAWING. MOUNT APPARATUS BAY VENTILATION SYSTEM MOUNT CONTROL PANEL 48" ABOVE FINISHED FLOOR. FURNISH AND INSTALL ALL COMPONENTS PER MANUFACTURERS RECOMMENDATIONS. COORDINATE POWER REQUIREMENTS WITH ELECTRICAL.
8. PROVIDE CAPTIVE/ARE HOOD PULL STATION FOR FIRE SUPPRESSION ALONG WITH A KILL SWITCH FOR ALL GAS-FIRED KITCHEN COOKING EQUIPMENT. COORDINATE WITH ELECTRICAL CONTRACTOR.
9. ROUTE #B EXHAUST UP THROUGH ROOF. TERMINATE AT VENT CAP. REFER TO DETAIL FOR MORE INFORMATION.
10. TAP #10 HIGH EFFICIENCY TAKEOFF OFF MAIN SUPPLY AIR AND ROUTE UP THROUGH ATTIC TO SERVE DIFFUSER AS SHOWN.
11. HIGH EFFICIENCY TAKEOFF WITH VOLUME DAMPER OFF BOTTOM OF SUPPLY AIR DUCT TO SERVE DIFFUSER BELOW. CFM AND TYPE AS SHOWN ON PLAN.
12. #10 OUTSIDE AIR DUCT UP TO RV-2. PROVIDE NECESSARY TRANSITIONS TO CONNECT TO RV-2.
13. MOUNT BOTTOM OF LOUVER AT 6'-4" AFF. INTERLOCK MOTORIZED DAMPER WITH EF-3 OPERATOR. MOTORIZED DAMPER TO OPEN WHEN EXHAUST FAN IS ACTIVATED BY THERMOSTAT. ADDITIONALLY, COORDINATE LOUVER SIZE WITH MASONRY WALL DIMENSIONS.
14. PROVIDE CHASE TO ROUTE ALL REFRIGERANT PIPING UP TO ATTIC. ROUTE PIPING ABOVE PLENUM SHELL TO MINIMIZE CLASHES WITH OTHER TRADES. SIZE PER MANUFACTURERS RECOMMENDATIONS.
15. ROUTE REFRIGERANT PIPING UP TO SERVE EQUIPMENT ON THE MEZANINE. REFER TO ENLARGED PLAN FOR CONTINUATION.
16. OFFSET DUCT UP INTO ATTIC SPACE.
17. ROUTE # EXHAUST UP AND TERMINATE. REF. DETAIL FOR TERMINATION REQUIREMENTS.
18. PROVIDE ALL MOUNTING ACCESSORIES FOR MECHANICAL EQUIPMENT. COORDINATE CLEARANCES AND OTHER REQUIREMENTS WITH MANUFACTURER. COORDINATE EXACT LOCATION WITH G.C. TO AVOID DOOR COLLECTS.
19. ROUTE # EXHAUST DUCT UP TO ROOF CAP. MAINTAIN 10" FROM OA INTAKE. COORDINATE ROUTING WITH STRUCTURE.
20. ROUTE ALL REFRIGERANT PIPING IN AN ORDERLY FASHION ON STAINLESS STEEL UNITS/STREET TO WALL PENETRATION IN MECHANICAL ROOM. ADDITIONALLY, PROVIDE UV PROTECTIVE COVERINGS ON ALL REFRIGERANT PIPING INSULATION LOCATED OUTSIDE.
21. PROVIDE TYPE RS DOOR GRILLE CENTERED ON DOOR 12" AFF.
22. TERMINATE #10 EXHAUST AT EXTERIOR WALL. PROVIDE WALL CAP WITH INTEGRAL BACKDRAFT DAMPER. COORDINATE FINAL FINISH AND COLOR WITH ARCHITECT.
23. REFER TO ARCHITECT PLANS FOR LOUVER ELEVATION.
24. ROUTE # EXHAUST UP THROUGH ROOF. TERMINATE AT VENT CAP. REFER TO DETAIL FOR MORE INFORMATION.
25. #10 EXHAUST UP TO RV-1.
26. OFFSET #6 EXHAUST DUCT TO AVOID #10 ON DUCT AND CONNECT INTO 12x10 DOAS-1 EXHAUST.
27. PROVIDE ROUTE 12x10 DOAS-1 EXHAUST DOWN INTO PLENUM AND TERMINATE IN PLENUM. PROVIDE BALANCING DAMPER TO BE SET AT 115 CFM.
28. ROUTE #10 DUCT DOWN TO CONNECT TO PLACEMENT RAILS.
29. HX-S FANS TO BE MOUNTED ABOVE RADIANT HEATERS. REINSTALL WITH CLEARANCES PER MANUFACTURERS RECOMMENDATIONS.



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



PEARSON KENT MCKINLEY RAFF ENGINEERS, LLC
13300 W. 98TH STREET
LENEXA, KS 66215
913.492.2400
WWW.PKMRENG.COM

K
J
H
G
F
E
D
C
B
A

GENERAL HVAC NOTES

- REFER TO GENERAL NOTES ON MEP COVER SHEET FOR ADDITIONAL REQUIREMENTS OF WORK.
- ROUND BRANCH DUCT RUNOUTS AND FLEXIBLE DUCT SHALL BE THE SAME SIZE AS THE DIFFUSER NECK UNLESS NOTED OTHERWISE.
- MAXIMUM FLEXIBLE DUCT LENGTH SHALL BE 5'-0" ALL AIR DISTRIBUTION DEVICES SHALL HAVE LOCKABLE VOLUME CONTROL DEVICES.
- ALL 90 DEGREE TURNING ELBOWS SHALL BE SMOOTH ROUND OR SQUARE WITH TURNING VANES.
- DUCT SIZES SHOWN ON PLANS ARE INSIDE FREE AREA.
- PROVIDE ACCESS DOORS IN DUCTS AHEAD OF ALL AUTOMATIC, FIRE, AND SMOKE DAMPERS.
- FOR BALANCING THE OUTSIDE AIRFLOW QUANTITIES, REFER TO HVAC SCHEDULES.
- PROVIDE SOURCE CAPTURE EXHAUST SYSTEM IN THE APPARATUS BAY. FLOWMETER SYSTEM OF APPROVED, EQUAL WITH 10MP TEC STYLE ROOF-MOUNTED FAN.



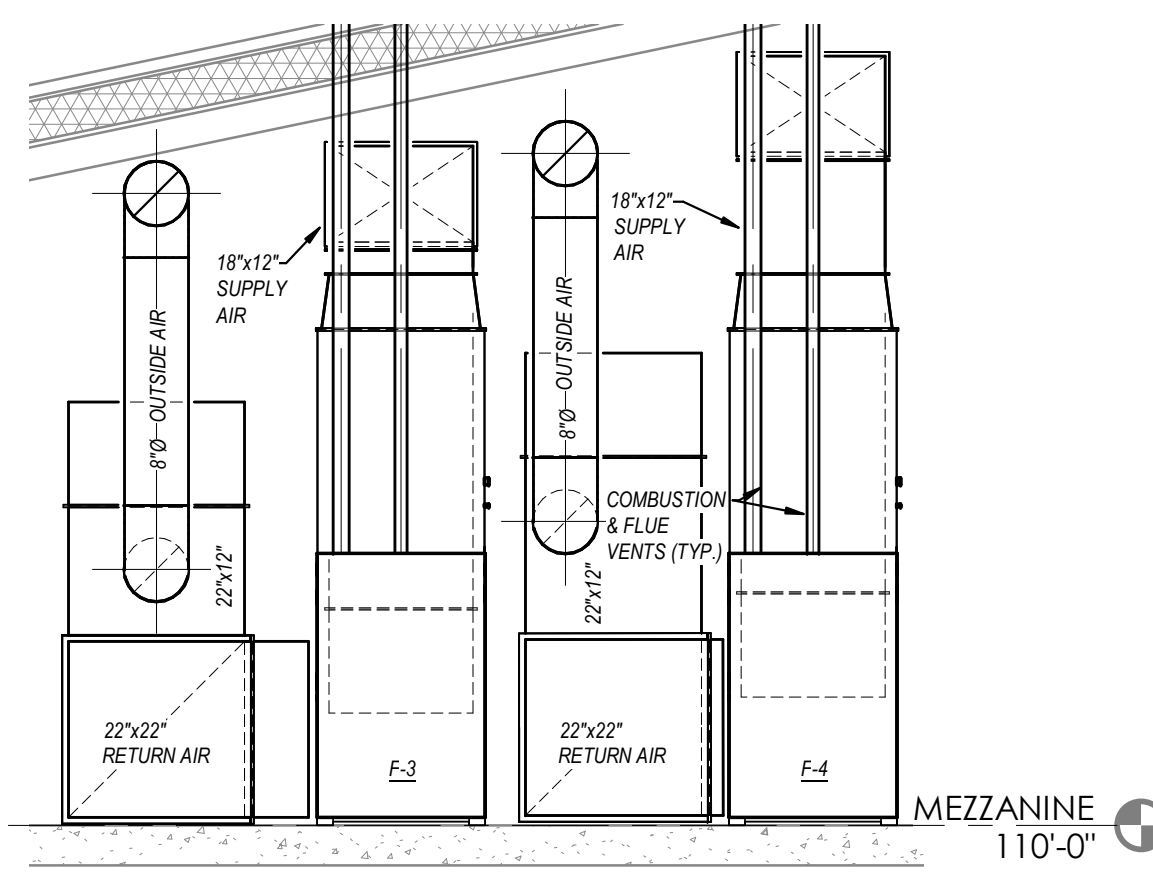
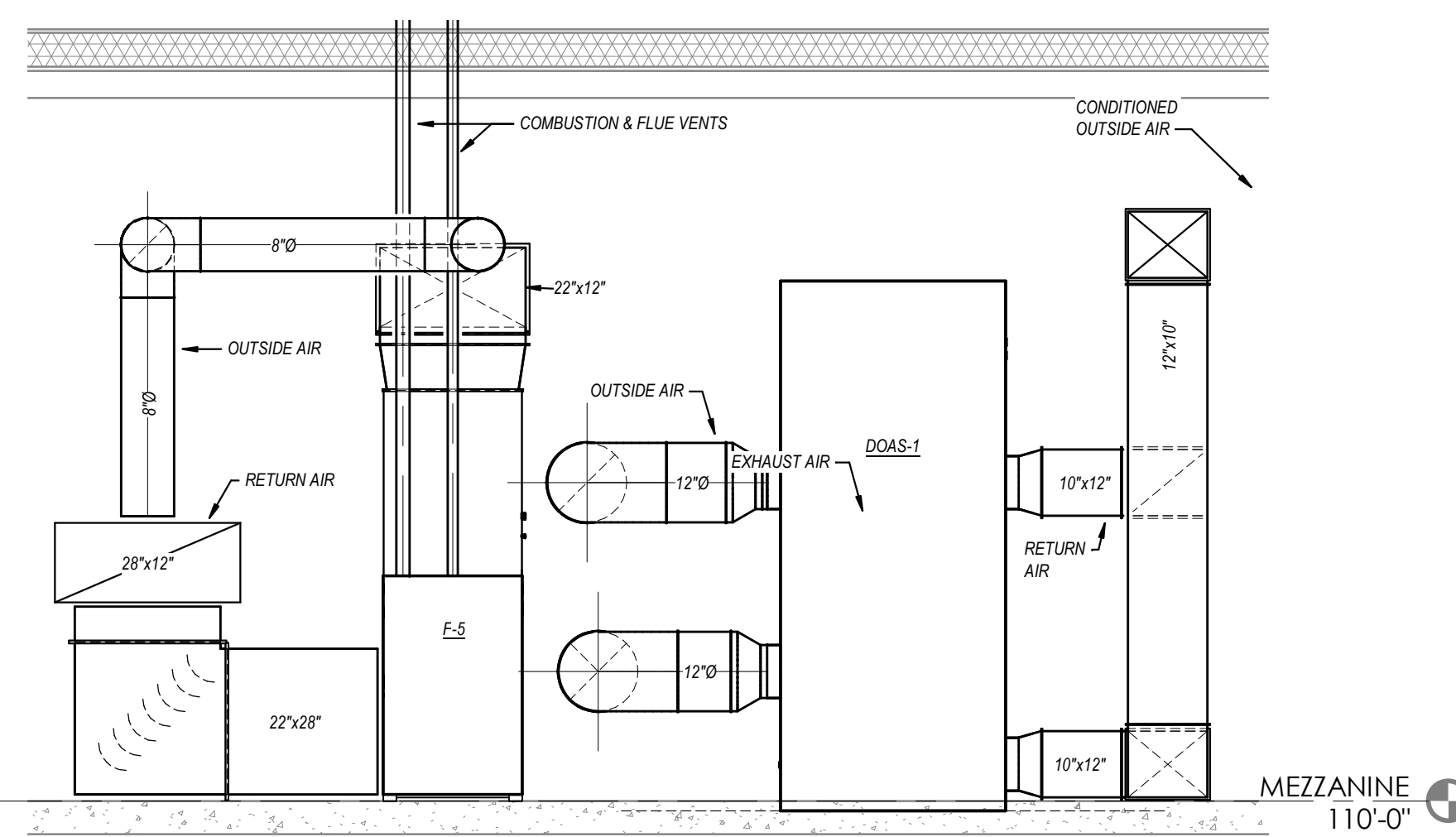
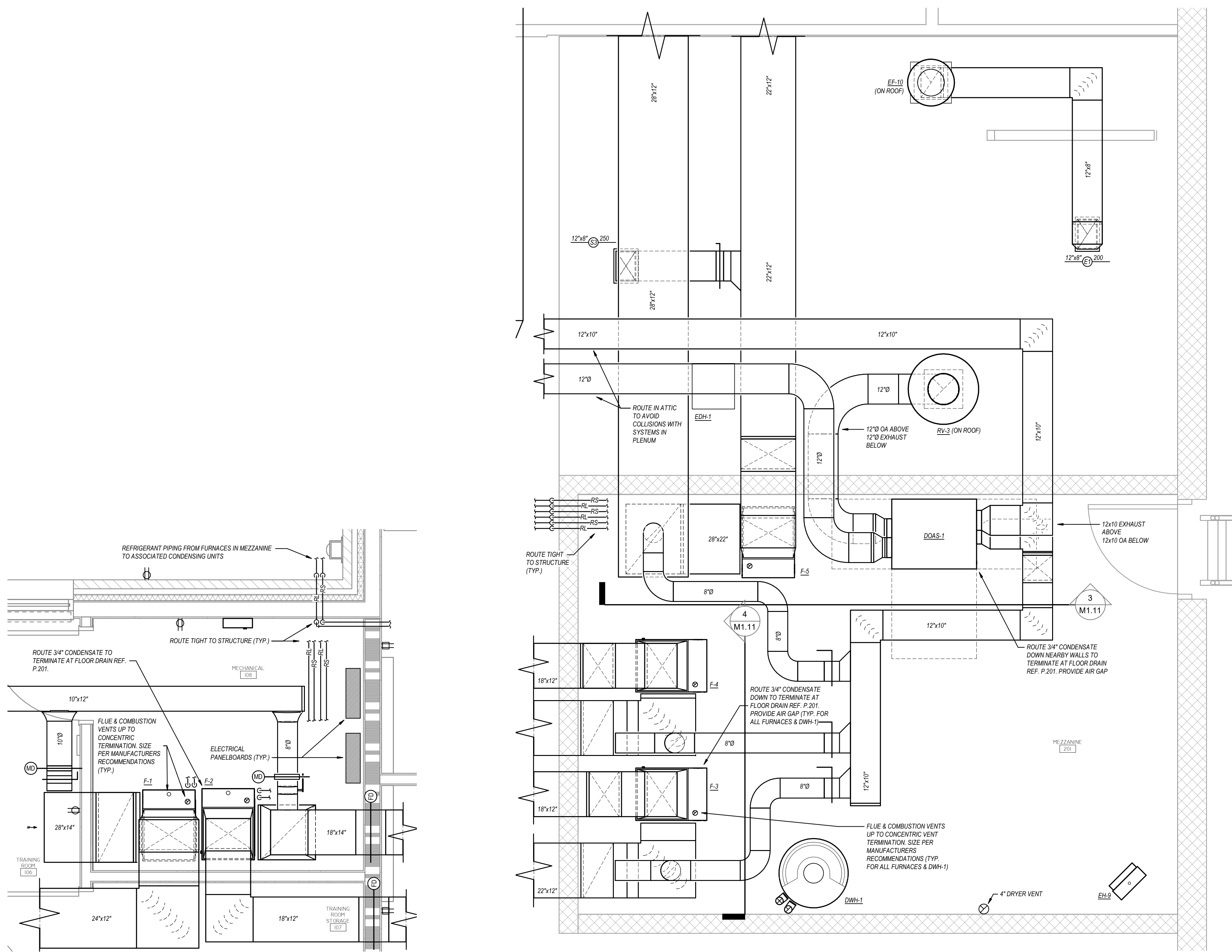
Kansas Certificate of Authority #A-516

Civil Engineer
Kaw Valley Engineering
KS Certificate of Authority #29241
1427 Sunflower Lane
Salina, KS 67401
785-823-3400

Structural Engineer
Bob D. Campbell & Co.
KS Certificate of Authority #000442
4338 Bellview
Kansas City, MO 64111
816-778-7149

MEP Engineer
PKMR Engineers, Inc.
KS Certificate of Authority #E-1682
13300 W. 98th St.
Lenexa, KS 66215
913-492-2400

JOB NUMBER 22003



VENTILATION SYSTEM OPERATION - EF-1 & EF-2

CONTROL
THE VENTILATION SYSTEM SHALL BE INDEPENDENT CONTROL. THE CONTRACTOR SHALL PROVIDE ALL COMPONENTS AND ACCESSORIES AS REQUIRED TO PROVIDE A COMPLETE AND FUNCTIONING SYSTEM. THE SYSTEM SHALL BE CAPABLE OF PROVIDING EACH LEVEL OF CONTROL AS NOTED BELOW.

NORMAL OPERATION
THE EXHAUST FAN IS OFF, AND THE MOTORIZED DAMPERS AT THE EXHAUST FAN AND INTAKE LOUVERS ARE CLOSED.

CONTAMINATE VENTILATION
UPON DETECTION OF ANY CONTAMINATE ABOVE THE ACTIVATION SET POINT (ADJUSTABLE), THE MOTORIZED DAMPERS AT THE INTAKE AND EXHAUST LOUVERS SHALL OPEN, AND THE EXHAUST FANS SHALL START. THE EXHAUST FANS SHALL OPERATE UNTIL THE CONTAMINATE LEVELS DROP BELOW THE RELEASE SET POINT (ADJUSTABLE) FOR A PERIOD OF 10 MINUTES (ADJUSTABLE) OR MORE. UPON RELEASE, NORMAL OPERATION IS RESUMED.

CONTAMINATE
CARBON MONOXIDE (CO)
NITROGEN DIOXIDE (NO2)
(ALL SET POINTS SHALL BE ADJUSTABLE)

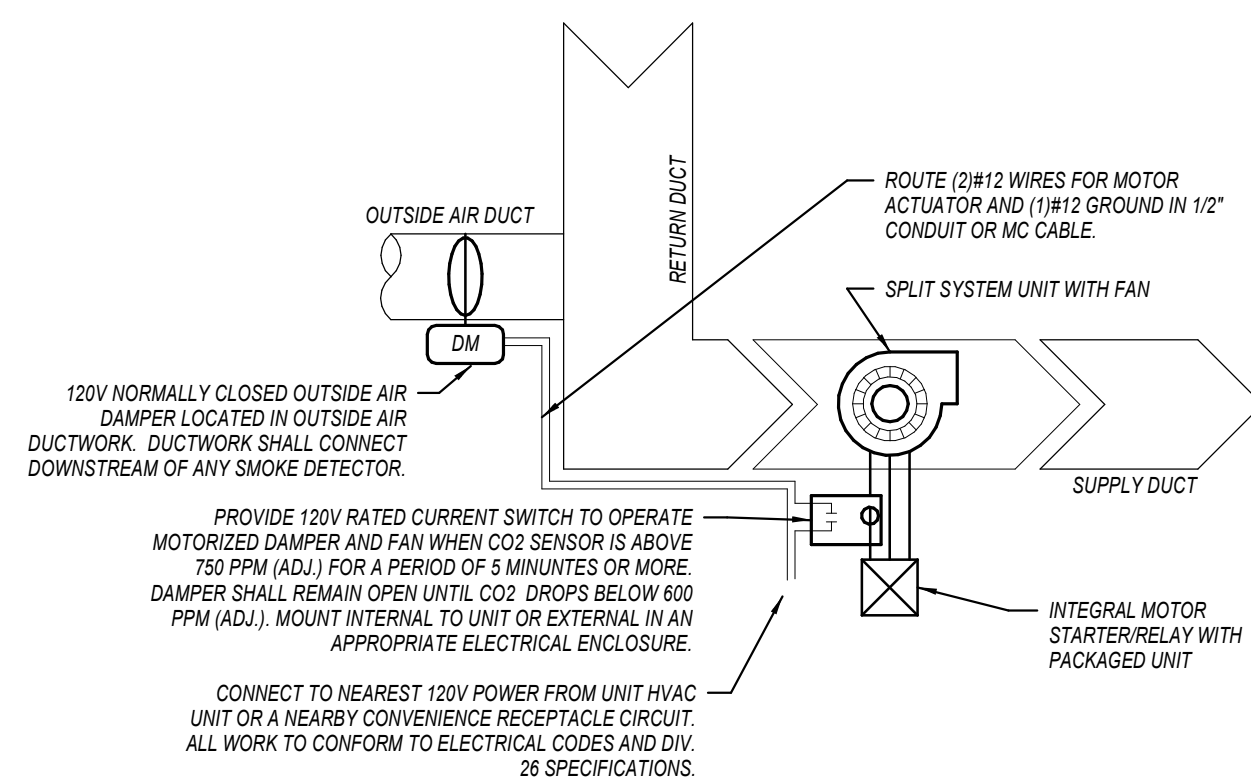
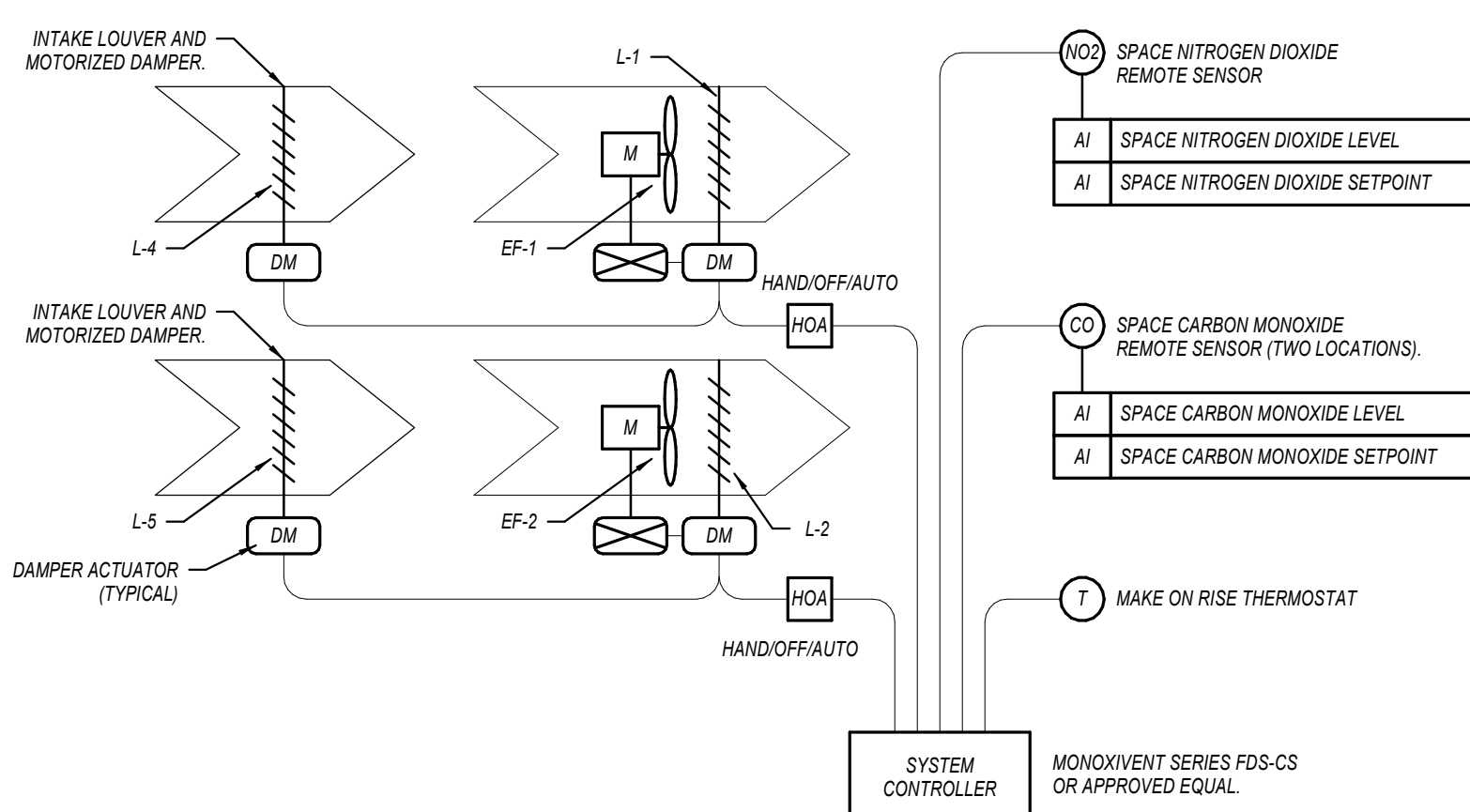
ACTIVATION SET POINT
25 PPM
0.5 PPM

RELEASE SET POINT
20 PPM
0.2 PPM

THERMOSTAT CONTROL
UPON ACTIVATION OF THE MAKE OR-BISE THERMOSTAT, THE MOTORIZED DAMPERS AT THE INTAKE AND EXHAUST LOUVERS SHALL OPEN, AND THE PRIMARY EXHAUST FAN SHALL START. UPON RELEASE, NORMAL OPERATION IS RESUMED.

MANUAL OVERRIDE
UPON ACTIVATION OF THE MANUAL OVERRIDE, THE MOTORIZED DAMPERS AT THE INTAKE AND EXHAUST LOUVERS SHALL OPEN, AND THE PRIMARY EXHAUST FAN SHALL START. UPON RELEASE, NORMAL OPERATION IS RESUMED.

CONTRACTOR SHALL TEST SYSTEM OPERATION AND PROVIDE DOCUMENTATION THAT SYSTEM IS OPERATING AS DESCRIBED ABOVE. SUBMIT DOCUMENTATION TO ARCHITECT/ENGINEER FOR APPROVAL.



SALINA FIRE STATION #4

EAST CRAWFORD STREET
& MARKLEY ROAD
SALINA, KS 67401
CITY OF SALINA

755 Minnesota Ave., Suite 662 Kansas City, Kansas 66101 Tel. 816.300.4101 Fax 816.300.4102



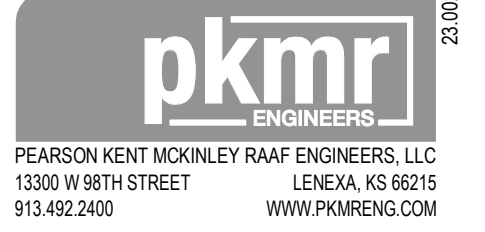
BID SET DOCUMENTS

ISSUE DATE 09/09/2024
No. Description Date

WSKF, Inc. © 2024

HVAC ENLARGED PLANS

M1.11

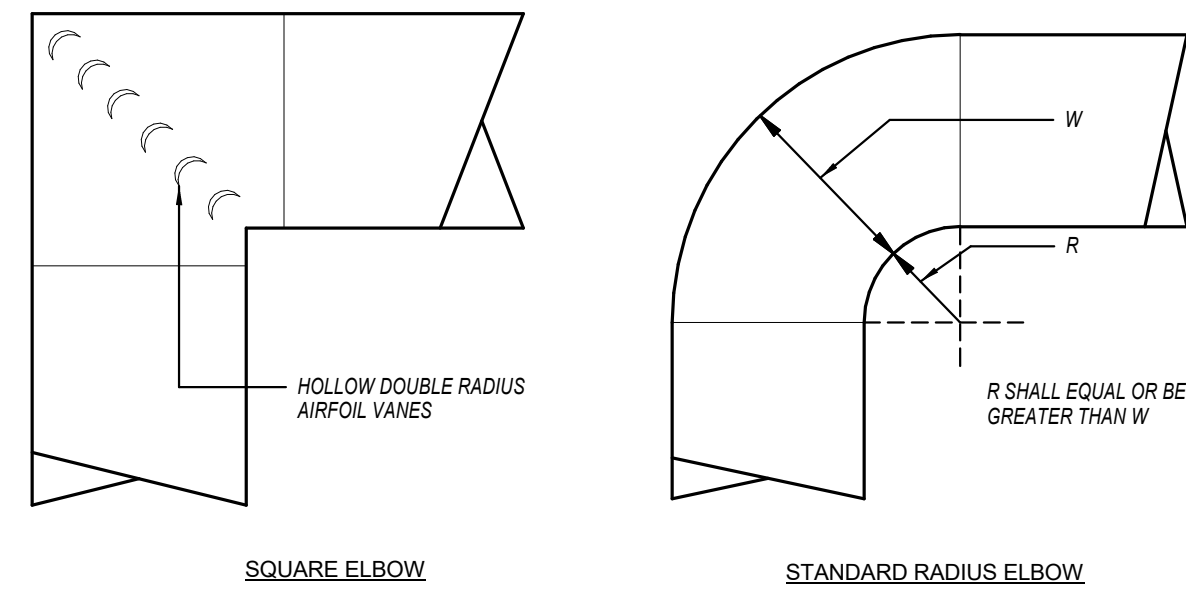


PEARSON KENT MCKINLEY RAFF ENGINEERS, LLC
13300 W. 98TH STREET
LENEXA, KS 66215
913.492.2400
WWW.PKMRENG.COM

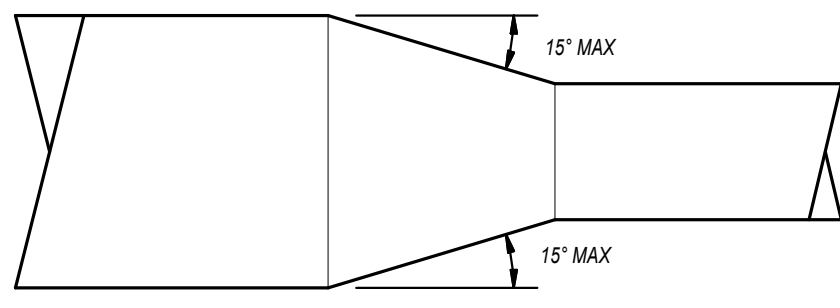
DOAS HEAT PUMP SCHEDULE (WITH ENERGY RECOVERY)

UNIT MARK	MANUFACTURER	MODEL	AMBIENT TEMP (°F)	ENERGY RECOVERY WHEEL						UNIT PERFORMANCE			ELECTRICAL			NOTES				
				SUPPLY		EXHAUST		COOLING		HEATING		NOMINAL CAPACITY (TONS)	COOLING COIL		HEATING COIL		VOLTS / PH	MCA	MOCP	
CFM	ESP	CFM	ESP	EAT (DBWB)	LAT (DBWB)	EAT (DBWB)	LAT (DBWB)	EAT (DBWB)	LAT (DBWB)	EAT (DBWB)	LAT (DBWB)		EAT (DBWB)	LAT (DBWB)						
DOAS-1	UNITED COOL AIR	AVY10001ASTAS	95	485	1"	485	1"	95/78.2	78.4/67.2	37/29	63/0/54.1	9.75	78.4/67.2	73.2/59.0	63/0/54.1	10/0/61.0	208/1	9.3	15	ALL

REMARKS:
 1. PROVIDE 3" MERV 13 PLEATED SUPPLY FILTER AND 2" MERV 8 PLEATED EXHAUST FILTER.
 2. UNIT SHALL RUN CONTINUOUSLY TO PROVIDE PRE-TREATED OUTSIDE AIR YEAR-ROUND.
 3. PROVIDE WITH INTEGRAL DISCONNECT.



SQUARE ELBOW **STANDARD RADIUS ELBOW**



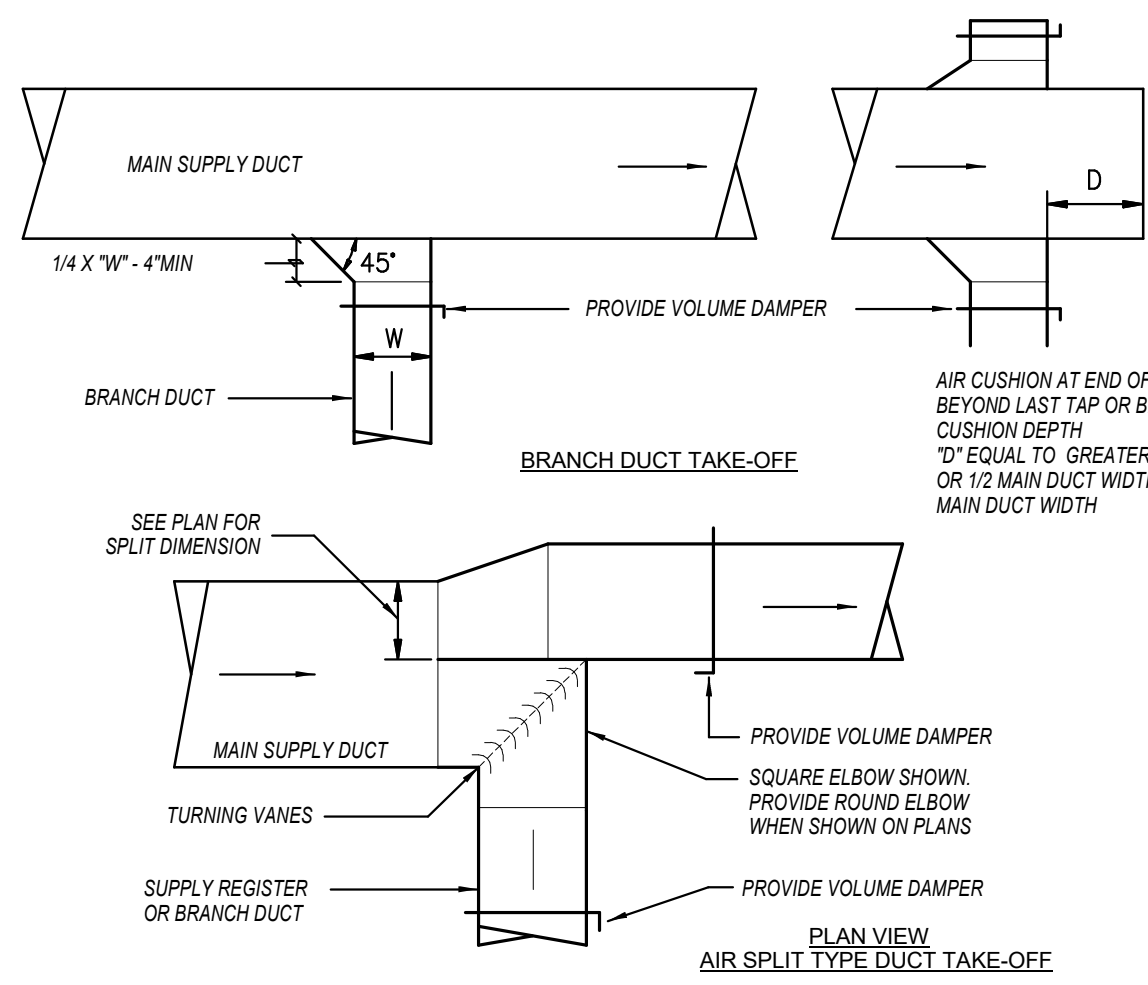
PLAN OR SIDE VIEW

SQUARE ELBOW NOTES:
 1. FOR DUCT WIDTH LESS THAN 18" USE MINIMUM 26 GA VANES AT 2-1/8" O.C. FOR DUCT 18" AND WIDER, USE MINIMUM 24 GA VANES AT 3-1/4" O.C.

RADIUS ELBOW NOTES:
 1. THE INTERIOR SURFACE OF ALL RADIUS ELBOWS SHALL BE MADE ROUND.
 2. RADIUS ELBOWS SHOWN ON PLANS MAY BE MADE SHORT RADIUS ELBOWS UNLESS WHERE SPACE DOES NOT ALLOW FOR STANDARD ALL SHORT RADIUS ELBOWS SHALL HAVE VANES. VANES SHALL BE CONSTRUCTED, SUPPORTED AND FASTENED AS RECOMMENDED BY SMACNA.

TYPICAL DUCT ELBOWS AND TRANSITION

NOT TO SCALE



DUCTWORK TAKEOFFS

NOT TO SCALE

GAS RADIANT HEATER SCHEDULE

MARK	MANUFACTURER	MODEL	DESCRIPTION	CAPACITY	HEAT EXCHANGER LENGTH	ELECTRICAL		REMARKS
						VOLTAGE	PHASE	
RH-1	RE-VERBER-RAY	HL-3-50	TUBULAR RADIAN HEATER	125,000 Btu/h	50"	120	1	ALL
RH-2	RE-VERBER-RAY	HL-3-50	TUBULAR RADIAN HEATER	125,000 Btu/h	50"	120	1	ALL
RH-3	RE-VERBER-RAY	HL-3-50	TUBULAR RADIAN HEATER	125,000 Btu/h	50"	120	1	ALL
RH-4	RE-VERBER-RAY	HL-3-50	TUBULAR RADIAN HEATER	125,000 Btu/h	50"	120	1	ALL

REMARKS:
 1. PROVIDE WITH ALL NECESSARY SUPPORTS, HANGERS, COUPLINGS, ROOF VENT CAP, ETC.
 2. INSTALL WITH CLEARANCES PER MANUFACTURER'S RECOMMENDATION.
 3. PROVIDE MANUFACTURER'S RECOMMENDED THERMOSTAT.

MINI SPLIT CONDENSING UNIT SCHEDULE

MARK	MANUFACTURER	MODEL	NOMINAL CAPACITY (TONS)	COOLING MIN. SEER	AMBIENT TEMP.	ELECTRICAL		REMARKS
						VOLTAGE	PHASE	
CLAC-1	DAIKIN	RTX18YVAU	1.5 ton	20.0	95°F	208 V	1	16.6 A 20/0A ALL

REMARKS:
 1. CONTRACTOR SHALL VERIFY WITH MANUFACTURER EXACT ROUTING AND SIZE OF INSULATED REFRIGERANT PIPING. INSTALL PER MANUFACTURER'S RECOMMENDATIONS.
 2. UNIT SHALL OPERATE DOWN TO 0°F IN COOLING MODE. PROVIDE ACCESSORIES AS REQUIRED.

LOUVER SCHEDULE

MARK	MANUFACTURER	MODEL	TYPE	DIMENSIONS		FREE AREA	CFM	Static Pressure Drop	REMARKS	
				HEIGHT	WIDTH					
L-1	RSRSON	ELF375DX	STATIONARY	36"	36"	54	440	400	0.14 in w/g	1.2,3
L-2	RSRSON	ELF375DX	STATIONARY	36"	36"	54	440	400	0.14 in w/g	1.2,3
L-3	RSRSON	ELF375DX	STATIONARY	12"	18"	54	66	400	0.07 in w/g	1.2
L-4	RSRSON	ELF375DX	STATIONARY	36"	54"	54	72	400	0.06 in w/g	1.2,3,4
L-5	RSRSON	ELF375DX	STATIONARY	36"	54"	54	72	400	0.06 in w/g	1.2,3,4
L-6	RSRSON	ELF375DX	STATIONARY	12"	24"	54	0.74	350	0.06 in w/g	1.2
L-7	RSRSON	ELF375DX	STATIONARY	18"	24"	54	1.25	300	0.04 in w/g	1.2,3

REMARKS:
 1. PROVIDE EXTENDED SILL AND MOUNTING FRAME TO MATCH CONSTRUCTION.
 2. PROVIDE COLOR AS SELECTED BY ARCHITECT FROM MANUFACTURER'S STANDARD COLORS.
 3. PROVIDE MOTORIZED DAMPER, CONTROLS AND ACTUATOR. COORDINATE WITH EC.
 4. PROVIDE A TITUS EFR OR EQUIVALENT SURFACE MOUNTED WHITE ALUMINUM GRILLE ON INSIDE OF LOUVER. COORDINATE GRILLE SIZE WITH LOUVER. PAINT GRILLE TO MATCH ADJACENT WALL. COORDINATE WITH ARCHITECT.

PLYMOVENT SYSTEM SCHEDULE

PLAN MARK	MANUFACTURER	MODEL NUMBER	SERVICE	HP	ELECTRICAL			WEIGHT (LBS)	REMARKS
					MCA	MOCP	V/PH		
PSV-1	PLYMOVENT	TEV-145-S35	APPARATUS BAY	10	28.5	40.0	208V/3PH	380	ALL

REMARKS:
 1. COORDINATE WITH OWNER/VENDOR ON ALL SYSTEM COMPONENTS AND INSTALLATION REQUIREMENTS. CONTACT ROTH SMYTH WITH AIR CLEANING TECHNOLOGIES AT (913)-422-0991. NO SUBSTITUTIONS ALLOWED.
 2. PROVIDE VEHICLE EXHAUST RAILS, THREE (3) 88 FT RAILS AS SHOWN AND FOUR (4) 16 FT RAILS, MODEL VSRK.
 3. PROVIDE SYSTEM WITH SUSPENDED MOUNTING BRACKETS, MAGNETIC GRABBER NOZZLES, WIRELESS TRANSMITTERS / CONTROLLERS, AND HIGH TEMPERATURE HOSE & CRAB STRAP SYSTEM.
 4. PROVIDE SOUND-ABSORBING BOX.

ELECTRIC HEATER SCHEDULE

MARK	MANUFACTURER	MODEL	DESCRIPTION	CFM	KW	TEMP RISE	ELECTRICAL		REMARKS
							VOLTAGE	PHASE	
EH-1	QMARK	SSA988B	WALL HEATER	100	3.0	95°F	208	1	1
EH-2	QMARK	SSA988B	WALL HEATER	100	3.0	95°F	208	1	1
EH-3	QMARK	SSA988B	WALL HEATER	100	3.0	95°F	208	1	1
EH-4	QMARK	MUN-05	UNIT HEATER	300	5.0	45°F	208	1	1.2
EH-5	QMARK	MUN-05	UNIT HEATER	300	5.0	45°F	208	1	1.2
EH-6	QMARK	MUN-03	UNIT HEATER	300	3.0	27°F	208	1	1.2
EH-7	QMARK	MUN-03	UNIT HEATER	300	3.0	27°F	208	1	1.2
EH-8	QMARK	MUN-03	UNIT HEATER	300	3.0	27°F	208	1	1.2
EH-9	QMARK	MUN-03	UNIT HEATER	300	3.0	27°F	208	1	1.2
EH-10	QMARK	RCC	COVE HEATER	1.5	0.7	0°F	208	1	1.2
EH-11	QMARK	RCC	COVE HEATER	1.5	0.7	0°F	208	1	1.2

REMARKS:
 1. PROVIDE WITH INTEGRAL THERMOSTAT AND DISCONNECT.
 2. PROVIDE BRACKETS AND ASSOCIATED HARDWARE FOR WALL MOUNTING.

DUCTWORK INSULATION SCHEDULE

PURPOSE	DUTY	DUCT			INSULATION			NOTES
		LOCATION	STYLE	MATERIAL	APPLICATION	THICKNESS		
SUPPLY	LOW PRESSURE / VELOCITY	CONCEALED	RECTANGULAR	FIBERGLASS	LINED	1 1/2"	---	
		EXPOSED	RECTANGULAR	FIBERGLASS	LINED	1 1/2"	---	
	ALL	UNCONDITIONED ATTICS	ALL	MINERAL FIBER	WRAPPED	1 1/2"	1	
		CONCEALED	RECTANGULAR	FIBERGLASS	LINED	1 1/2"	---	
RETURN	LOW PRESSURE / VELOCITY	CONCEALED	RECTANGULAR	FIBERGLASS	WRAPPED	1 1/2"	---	
		RETURN/TRANSFER BOOT	RECTANGULAR	FIBERGLASS	LINED	1 1/2"	---	
EXHAUST	LOW PRESSURE / VELOCITY	CONCEALED	RECTANGULAR	FIBERGLASS	LINED	1 1/2"	1	
		EXPOSED	RECTANGULAR	FIBERGLASS	LINED	1 1/2"	2	
OUTSIDE AIR	ALL	CONCEALED OR MECH SPACE	RECTANGULAR	MINERAL FIBER	WRAPPED	1 1/2"	---	
		CONCEALED OR MECH SPACE	RECTANGULAR	MINERAL FIBER	WRAPPED	1 1/2"	---	
		EXPOSED (NON-MECH SPACE)	RECTANGULAR	MINERAL FIBER	WRAPPED	1"	3	

NOTES:
 1. IN ADDITION TO OTHER SCHEDULED INSULATION.
 2. PROVIDE LINER ONLY WITHIN 10' OF FAN FOR ACCIDENTS.
 3. THICKNESS SHALL ENCOMPASS DUCT CONSTRUCTION.
 4. INSTALL FROM UNIT DISCHARGE TO FIRST DUCT ELBOW, THEN 10' FURTHER. NOT REQUIRED INSIDE CHASES OR MECHANICAL ROOMS, BUT SHALL BE INSTALLED ON REMAINING DUCTWORK WHEN 10' DIMENSION FALLS OUTSIDE ROOM.

GENERAL REMARKS (APPLY TO ALL TYPES):
 1. ALL DUCTWORK, INSULATION AND MATERIALS IN PLENUMS MUST MEET ASTM E84 FLAME/SMOKE RATING OF 2500.
 2. ALL INSULATION THICKNESSES SHALL MEET ASHRAE 90.1 - 2016 REQUIREMENTS AT A MINIMUM.
 3. REFER TO SPECIFICATIONS FOR MORE DETAILED INFORMATION FOR INSULATION PRODUCTS AND SYSTEMS.

ELECTRIC DUCT HEATER SCHEDULE

PLAN MARK	MANUFACTURER	MODEL NUMBER	AIRFLOW (CFM)	CAPACITY (KW)	ΔT (°F)	DUCT SIZE (IN.)	VOLTS/PH	CONTROL OPTIONS	REMARKS
EDH-1	TUTCO	E SERIES	485	5.0	35	12"	208/1	2 STEPS / STAGES	1

REMARKS:
 1. PROVIDE WITH INTEGRAL DISCONNECT SWITCH.
 2. PROVIDE WITH ADJUSTABLE AIRFLOW SWITCH.
 3. PROVIDE REMOTE DUCT TEMPERATURE SENSOR AND THERMOSTAT. MOUNT THERMOSTAT ON DOAS-1.

VENTILATOR SCHEDULE

MARK	MANUFACTURER	SERVICE	MODEL	HOOD SIZE (IN.)	THROAT SIZE (IN.)	CFM	S.P.D. (IN. W.C.)	REMARKS
RV-1	COOK	INTAKE	TR	27-3/4"	18-1/2"	500	0.008 in w/g	ALL
RV-2	COOK	INTAKE	FR	27-3/4"	12-1/2"	140	0.002 in w/g	ALL
RV-3	COOK	EXHAUST	PR	27-3/4"	12-1/2"	140	0.002 in w/g	ALL
RV-4	COOK	EXHAUST	PR	27-3/4"	18-1/2"	800	0.008 in w/g	ALL

REMARKS:
 1. PROVIDE BIRD SCREEN.
 2. PROVIDE STANDING SEAM METAL ROOF CURB MINIMUM 14".

SPLIT SYSTEM FURNACE SCHEDULE

MARK	MANUFACTURER	MODEL	AREA SERVED	DESCRIPTION	AIRFLOW			FAN DATA			COOLING COIL			HEATING			ELECTRICAL			REMARKS
					CFM	O.A. CFM	HP	CFM	E.S.P. (IN.)	HP	COIL TYPE	NOMINAL CAPACITY	INPUT	OUTPUT	EFFICIENCY	ΔT	VOLTAGE	PHASE		
F-1	LENVOX	EL207WV	TRAINING	HIGH EFFICIENCY FURNACE	1,500	200	0.700	34	FULLY CASED	4.0 ton	88,000 Btu/h	88,000 Btu/h	87%	50°F	120	1	1.2,3			
F-2	LENVOX	EL207WV	BUNK ROOMS	HIGH EFFICIENCY FURNACE	1,200	145	0.700	18	FULLY CASED	3.0 ton	66,000 Btu/h	64,000 Btu/h	87%	50°F	120	1	1.2,3,4			
F-3	LENVOX	EL207WV	DAY ROOM	HIGH EFFICIENCY FURNACE	1,200	155	0.700	12	FULLY CASED	3.0 ton	66,000 Btu/h	64,000 Btu/h	87%	50°F	120	1	1.2,3,4			
F-4	LENVOX	EL207WV	BUNK ROOMS	HIGH EFFICIENCY FURNACE	1,200	150	0.700	12	FULLY CASED	3.0 ton	66,000 Btu/h	64,000 Btu/h	87%	50°F	120	1	1.2,3,4			
F-5	LENVOX	EL207WV	OFFICE/DECK	HIGH EFFICIENCY FURNACE	1,200	180	0.700	12	FULLY CASED	3.0 ton	66,000 Btu/h	64,000 Btu/h	87%	50°F	120	1	1.2,3,4			
F-6	LENVOX	EL207WV	FITNESS	HIGH EFFICIENCY FURNACE	1,200	190	0.700	12	FULLY CASED	3.0 ton	66,000 Btu/h	64,000 Btu/h	87%	50°F	120	1	1.2,3			

REMARKS:
 1. HIGH EFFICIENCY VARIABLE SPEED FURNACE.
 2. PROVIDE 7 DAY PROGRAMMABLE LENVOX COMFORT S30 THERMOSTAT COMPATIBLE WITH VARIABLE SPEED CONDENSING UNIT.
 3. COOLING CAPACITIES BASED ON 55°F AMBIENT TEMPERATURE.
 4. SUPPLY FAN TO RUN CONTINUOUSLY.

KITCHEN HOOD SCHEDULE

PLAN MARK	MANUFACTURER	MODEL NUMBER	CFM (MIN / MAX)	LENGTH (IN.)	ELECTRICAL			NOTES
MCA	MOCP	V/PH						
KH-1	CAPTEVIAIRE	WHF	250/600	48	15	15	120/1	ALL

REMARKS:
 1. FURNISH WITH FIRE SUPPRESSION SYSTEM.
 2. PROVIDE ACCESSORIES FOR WALL MOUNTING.

SPLIT SYSTEM CONDENSING UNIT SCHEDULE

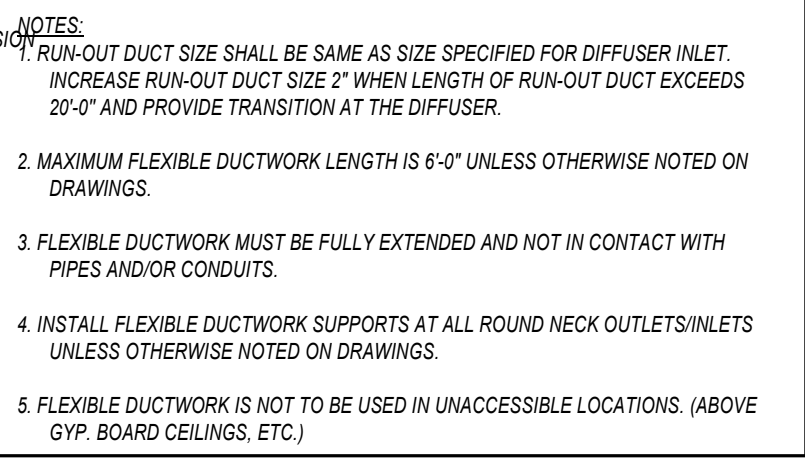
MARK	MANUFACTURER	MODEL	COOLING CAPACITY	MIN. SEER	AMBIENT TEMP.	ELECTRICAL		REMARKS
						VOLTAGE	PHASE	
CU-1	LENVOX	XC200B	4.0 ton	20.0	95°F	208 V	1	21.4 A 20/0A ALL
CU-2	LENVOX	XC200B	3.0 ton	20.0	95°F	208 V	1	20.6 A 30/0A ALL
CU-3	LENVOX	XC200B	3.0 ton	20.0	95°F	208 V	1	20.6 A 30/0A ALL
CU-4	LENVOX	XC200B	3.0 ton	20.0	95°F	208 V	1	20.6 A 30/0A ALL
CU-5	LENVOX	XC200B	3.0 ton	20.0	95°F	208 V	1	20.6 A 30/0A ALL
CU-6	LENVOX	XC200B	3.0 ton	20.0	95°F	208 V	1	20.6 A 30/0A ALL

REMARKS:
 1. COOLING CAPACITY BASED ON A SUCTION TEMPERATURE OF 95°F.
 2. PROVIDE VARIABLE SPEED COMPRESSOR.

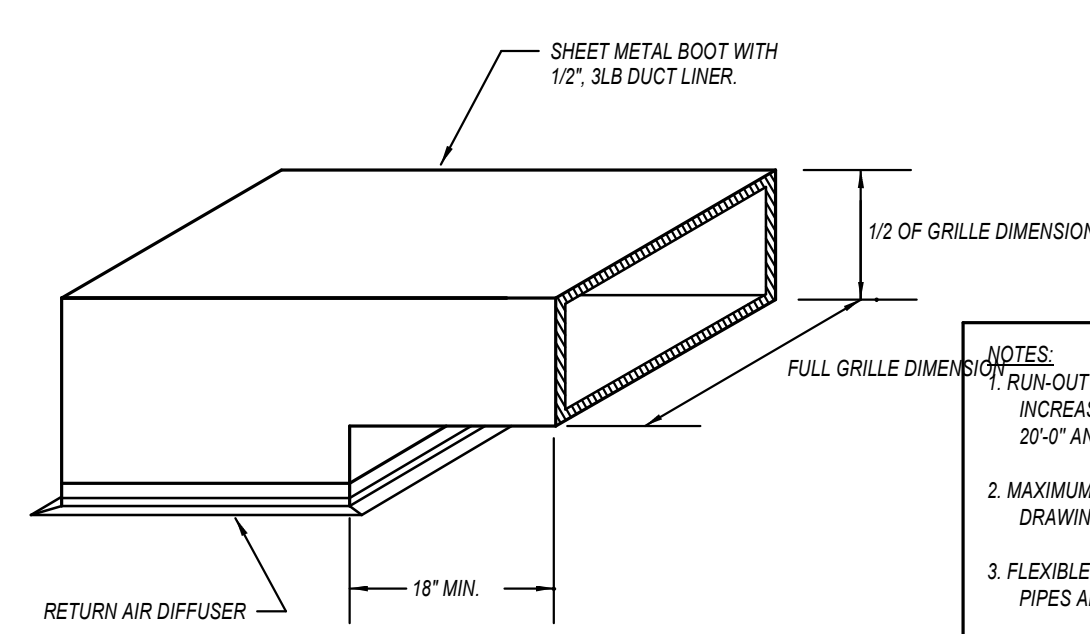
EXHAUST FAN SCHEDULE

MARK	MANUFACTURER	MODEL	DESCRIPTION	AREA SERVED	FAN DATA			ELECTRICAL			CONTROLS	REMARKS	
					CFM	E.S.P. (IN.)	HP	DRIVE	RPM	VOLTAGE			PHASE
EF-1	COOK	EWP	EXTRUDED WALL PROPELLER FAN	APPARATUS BAY	4,000	0.250	1/2	DIRECT	1140	120	1	CONTROLLER	3.6
EF-2	COOK	EWP	EXTRUDED WALL PROPELLER FAN	APPARATUS BAY	4,000	0.250	1/2	DIRECT	1140	120	1	CONTROLLER	3.6
EF-3	COOK	SDAD V2	SQUARE PLANE FAN	APPARATUS BAY	400	0.250	1/8	DIRECT	1817	120	1	CONTINUOUS	4.8
EF-4	COOK	GOVF-100	CEILING FAN WITH PLASTIC GRILLE	RESTROOM	100	0.300	1/3W	DIRECT	867	120	1	WALL SWITCH	7
EF-5	COOK	GOVF-100	CEILING FAN WITH PLASTIC GRILLE	RESTROOM	100	0.300	1/3W	DIRECT	867	120	1	WALL SWITCH	7
EF-6	COOK	GOVF-100	CEILING FAN WITH PLASTIC GRILLE	RESTROOM	100	0.300	1/3W	DIRECT	867	120	1	WALL SWITCH	7
EF-7	COOK	GOVF-100	CEILING FAN WITH PLASTIC GRILLE										

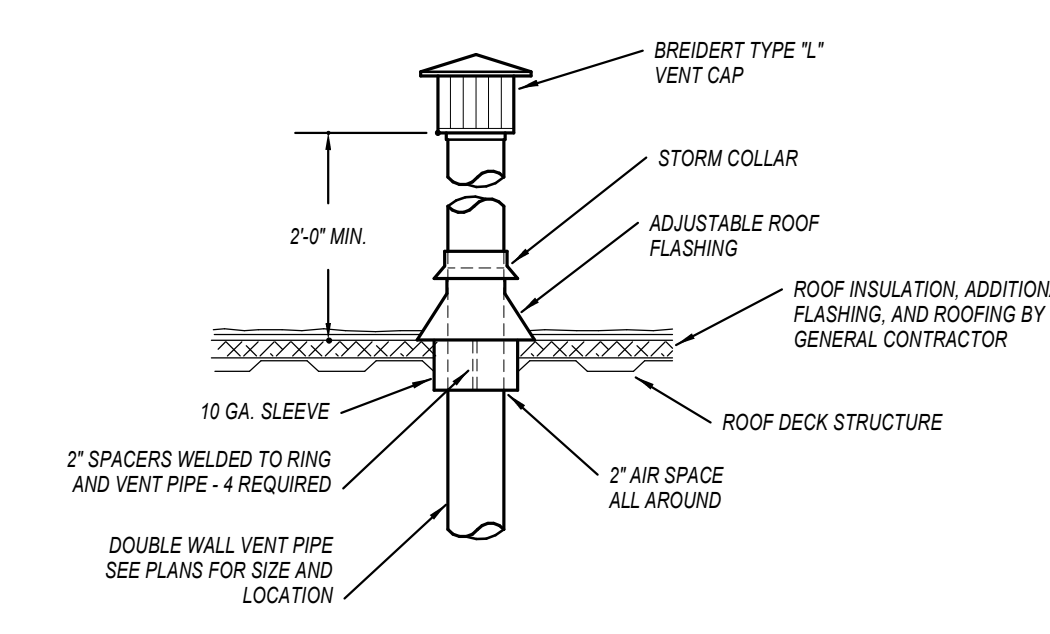
DUCT CONNECTION TO LAY-IN DIFFUSER DETAIL



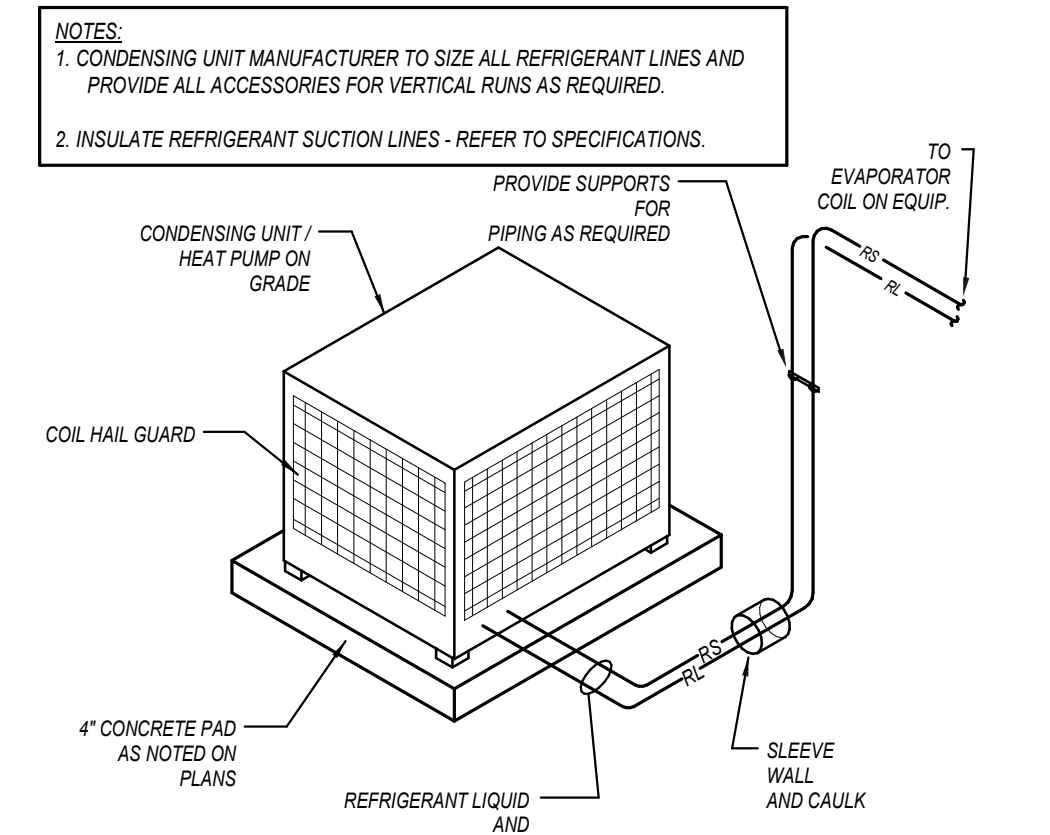
RETURN AIR BOOT



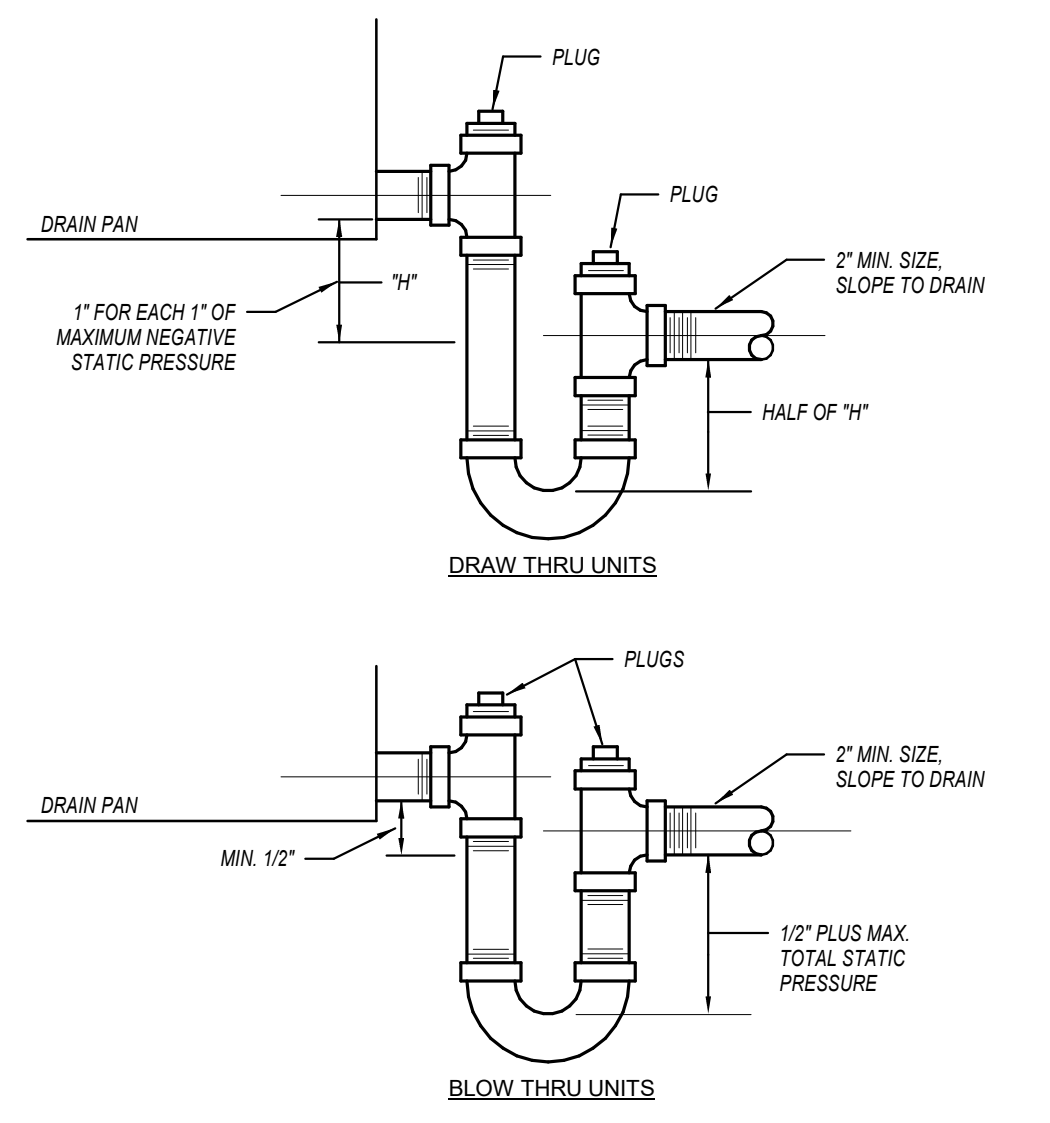
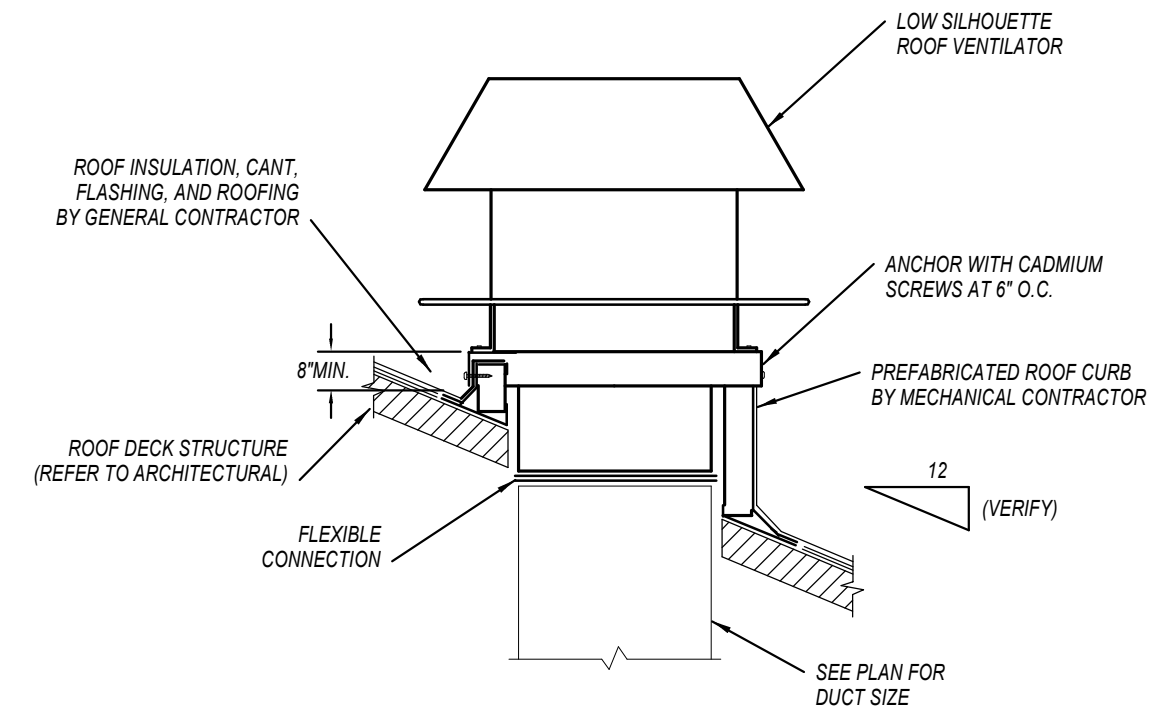
GAS VENT AND CAP



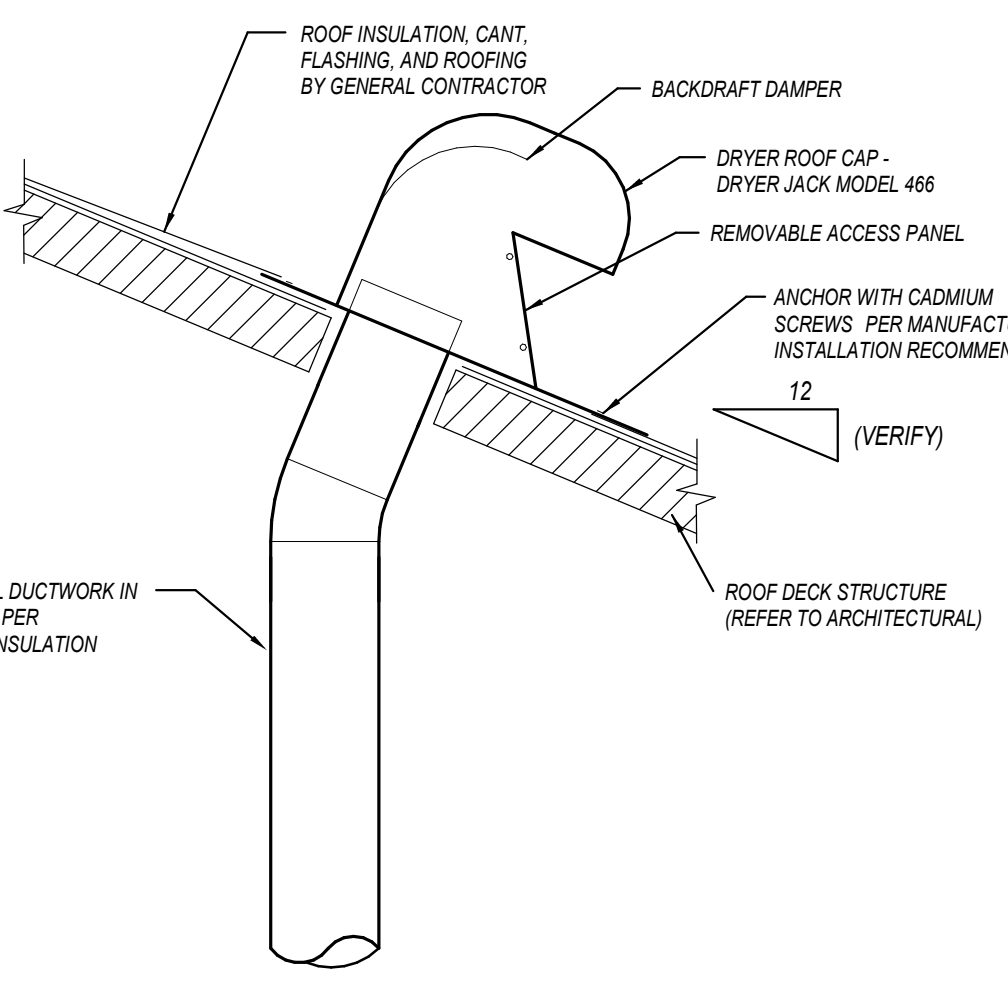
CONDENSING UNIT / HEAT PUMP DETAIL



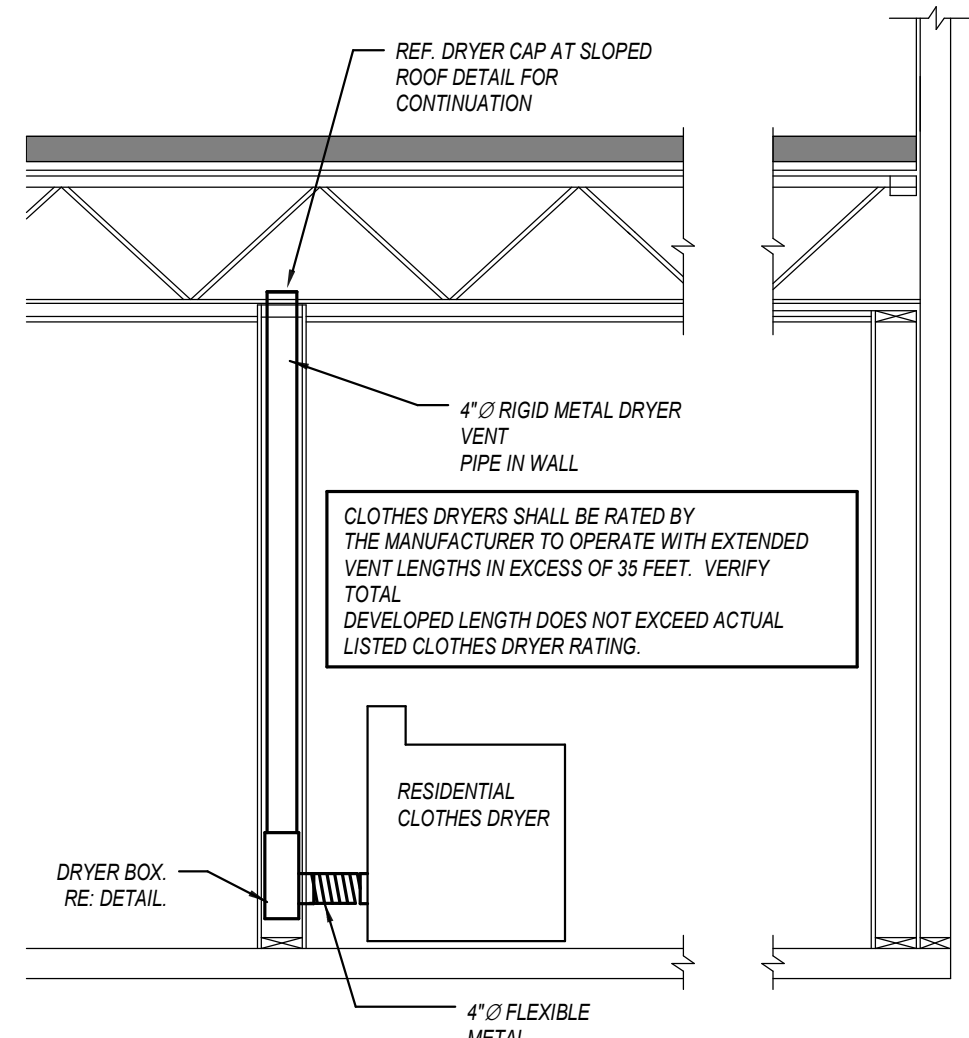
INTAKE/RELIEF VENTILATOR DETAIL



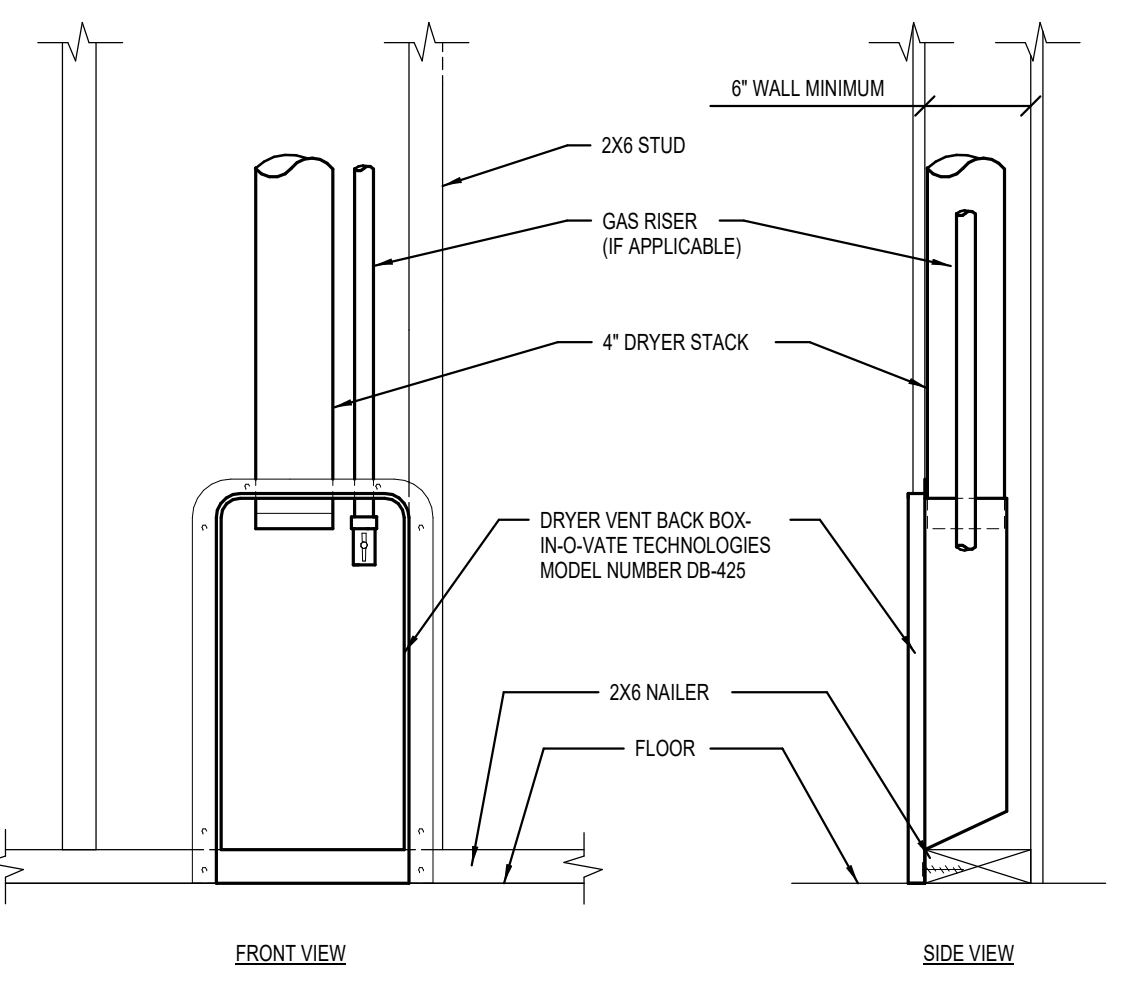
DRYER CAP AT SLOPED ROOF



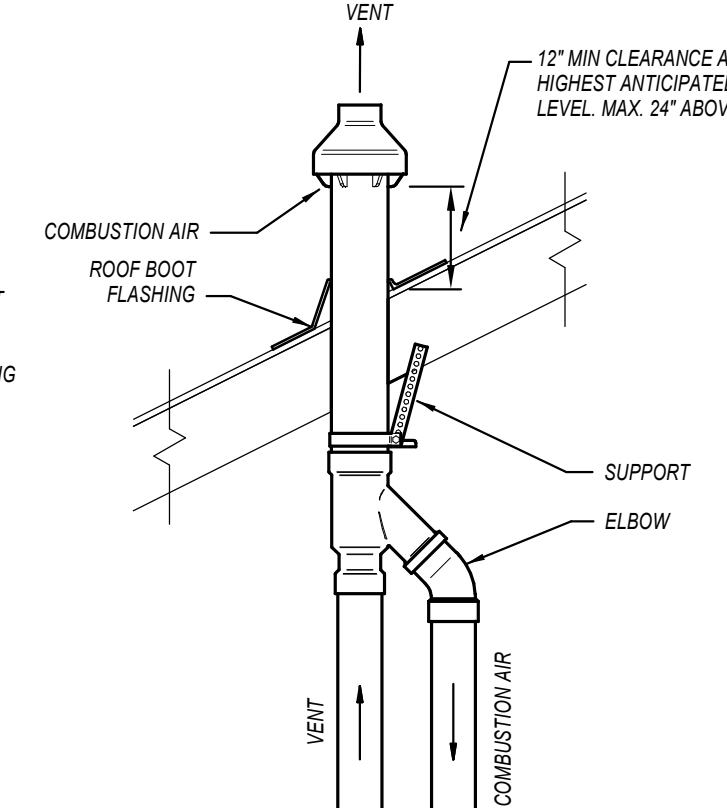
CLOTHES DRYER VENT DETAIL



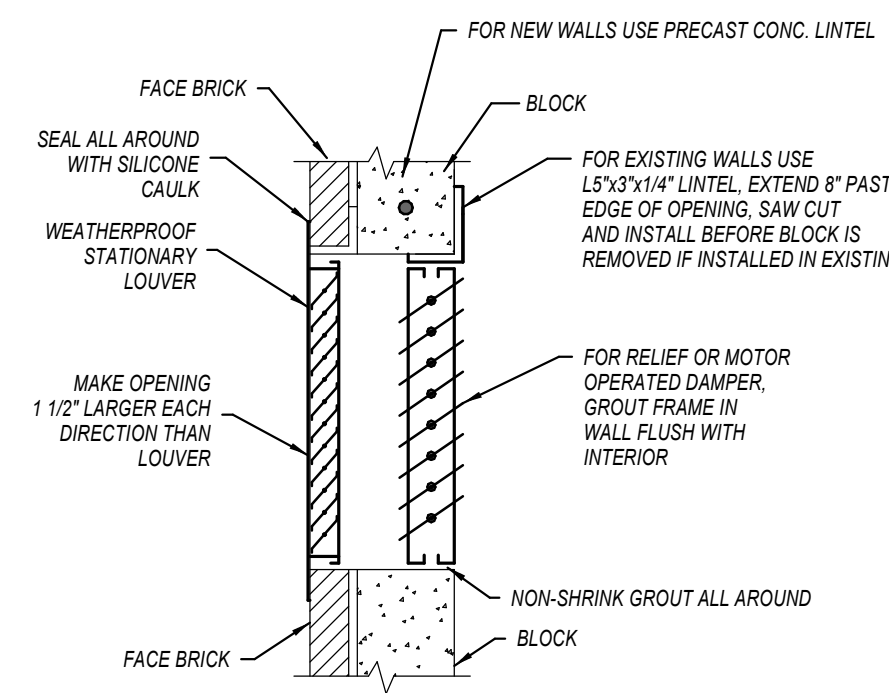
CLOTHES DRYER WALL BOX DETAIL



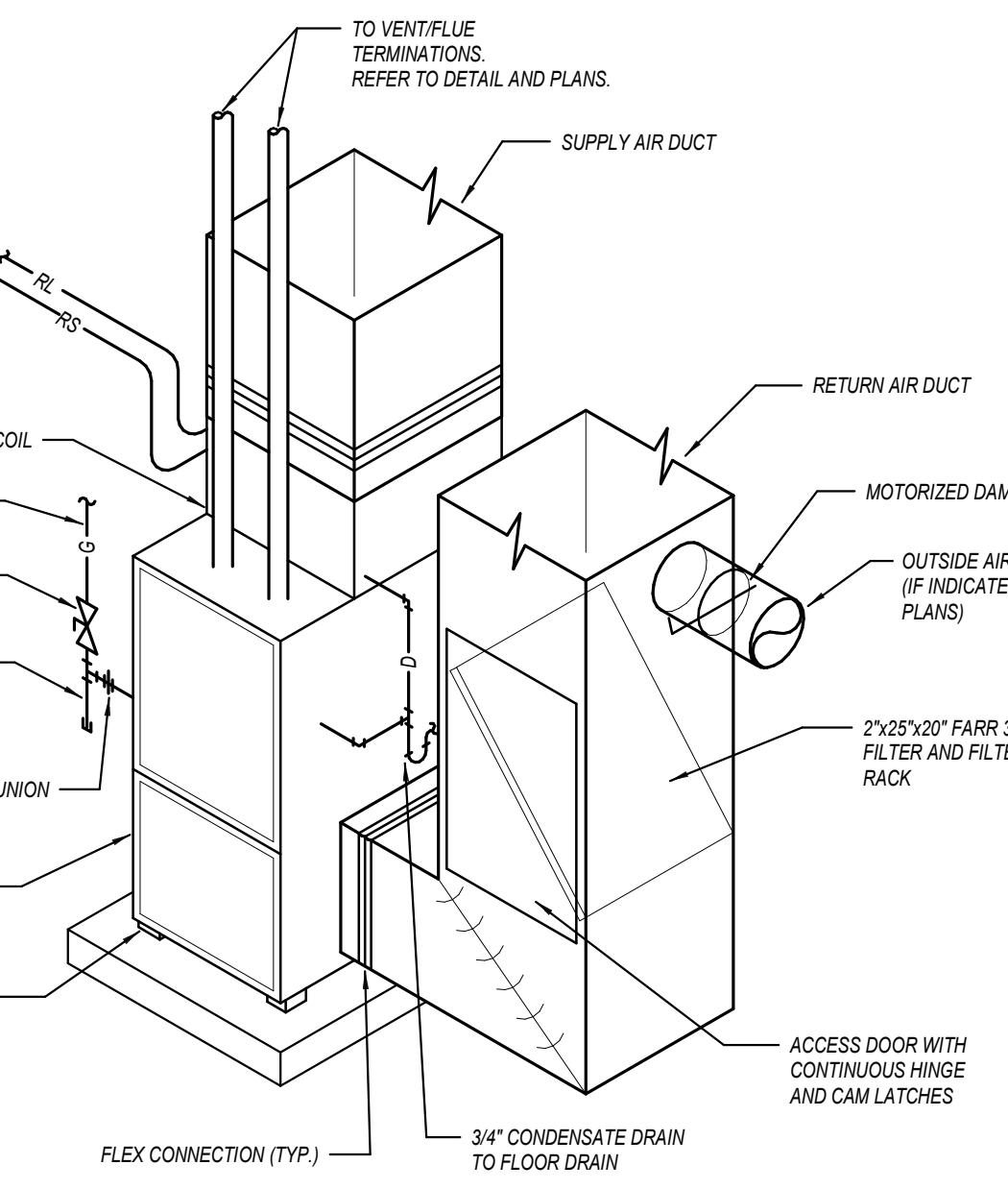
CONCENTRIC ROOF VENT



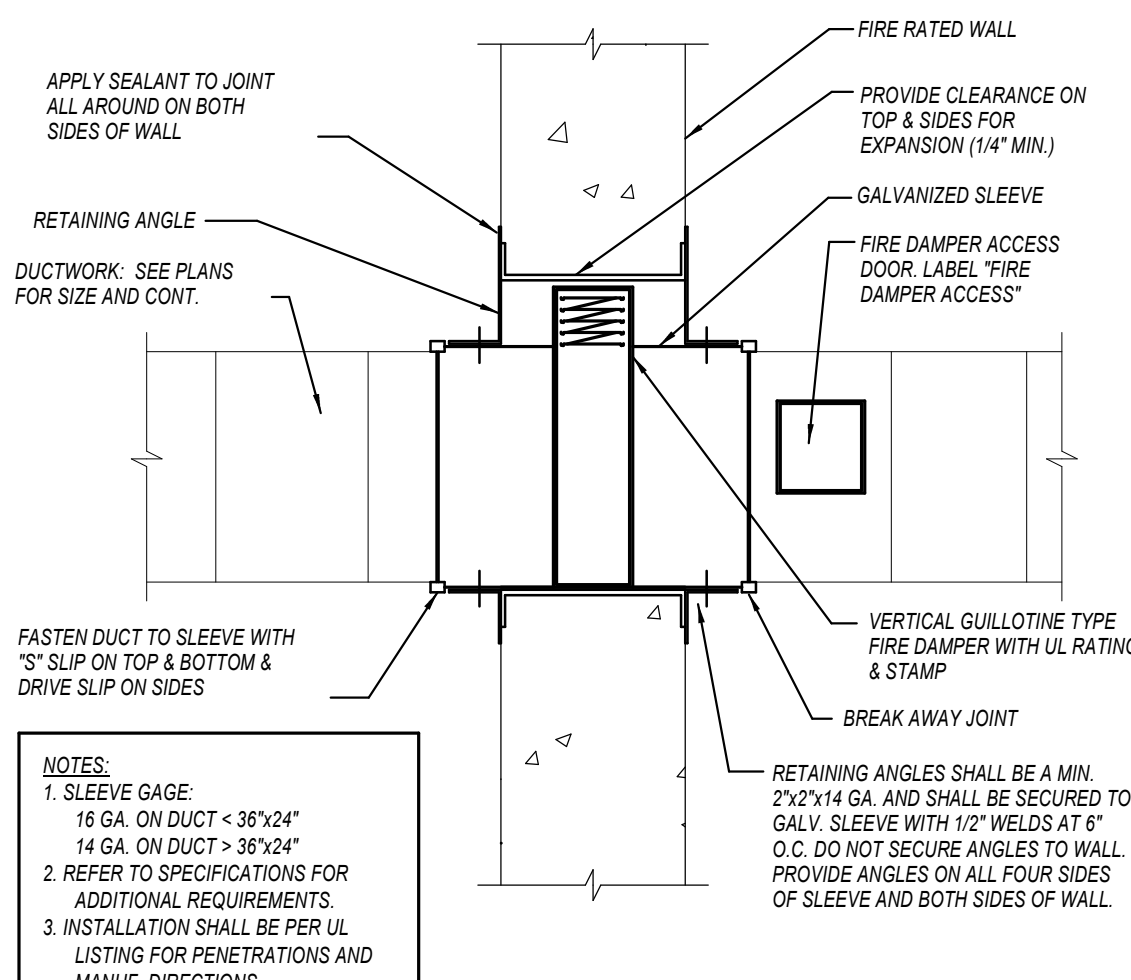
TYPICAL LOUVER DETAIL



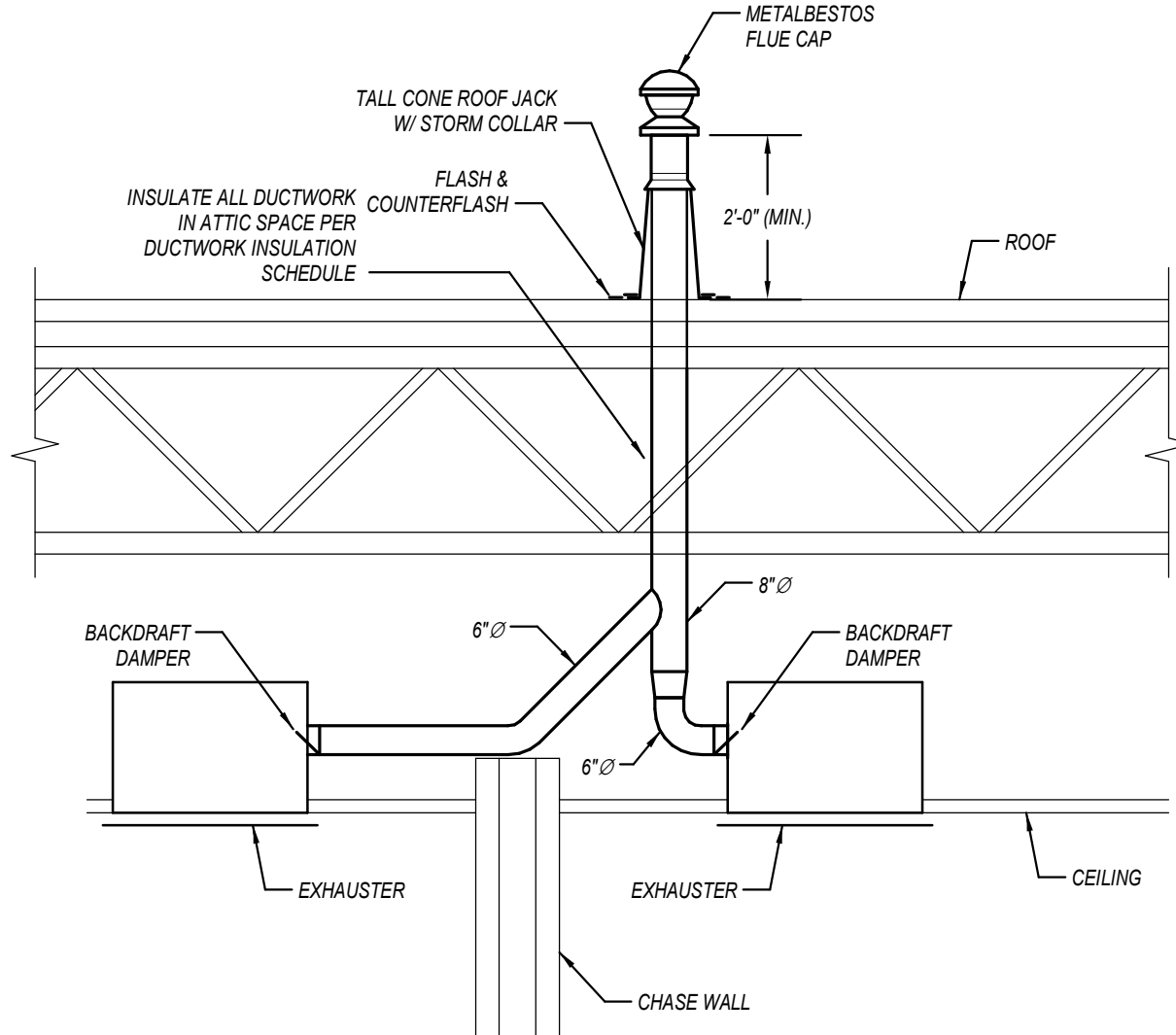
CONDENSATE TRAP DETAIL



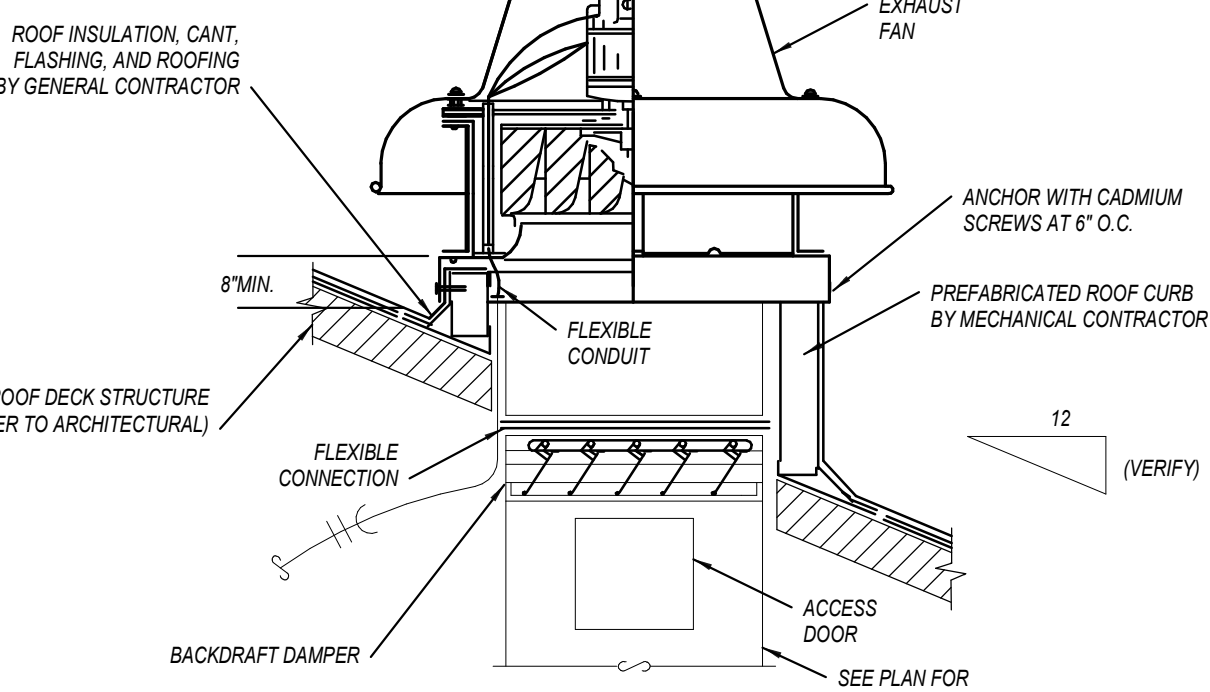
VERTICAL FIRE DAMPER



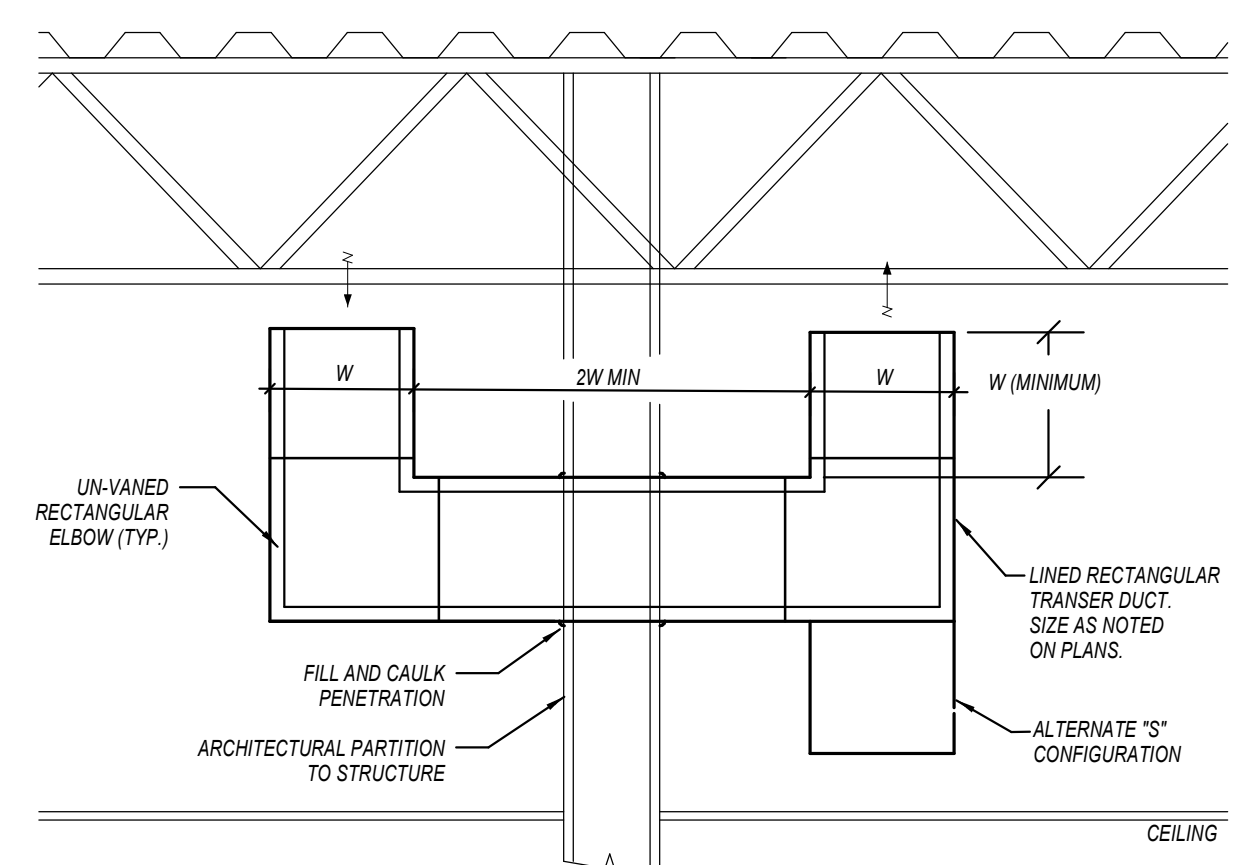
DOUBLE RESTROOM EXHAUST DETAIL



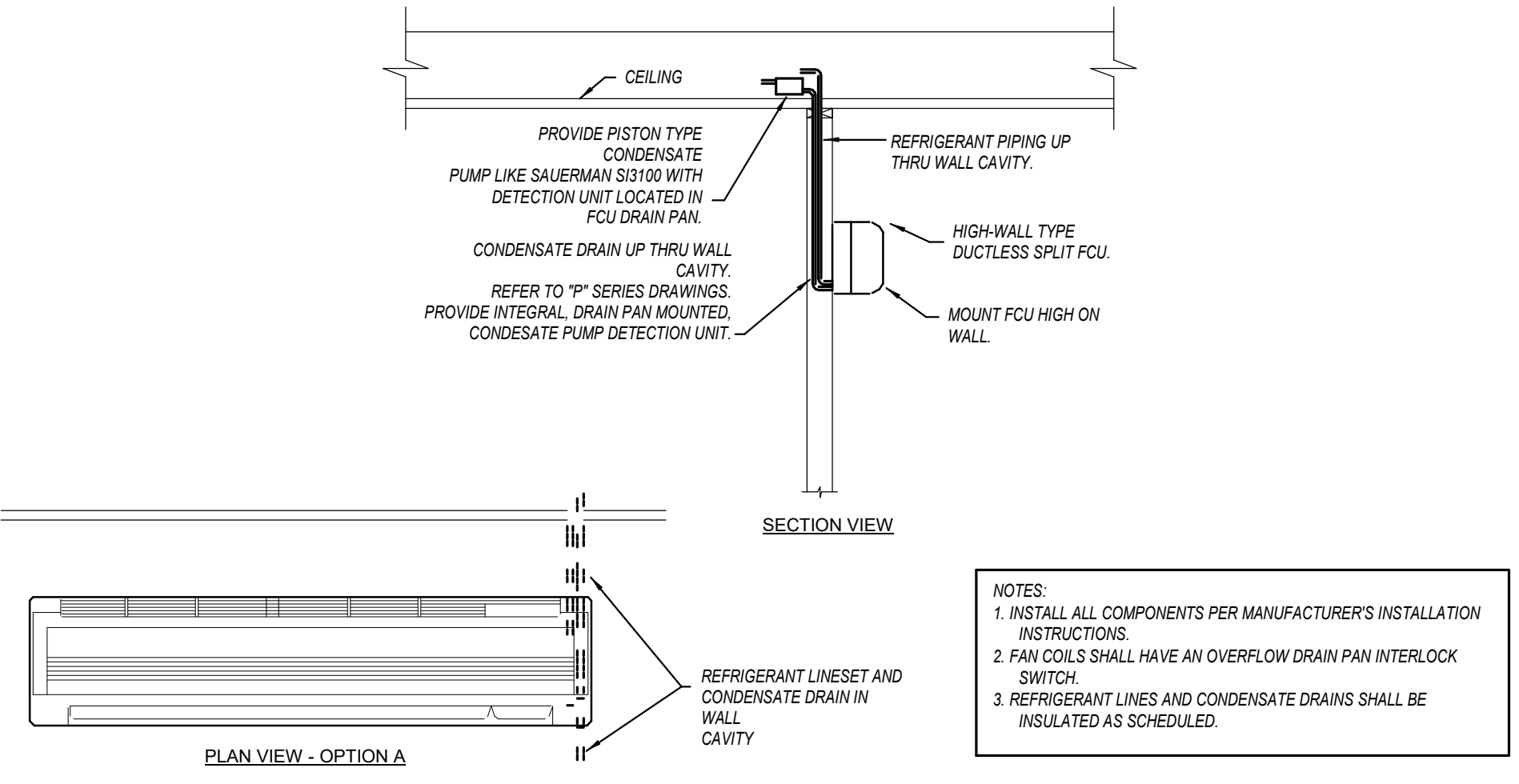
EXHAUST FAN DETAIL



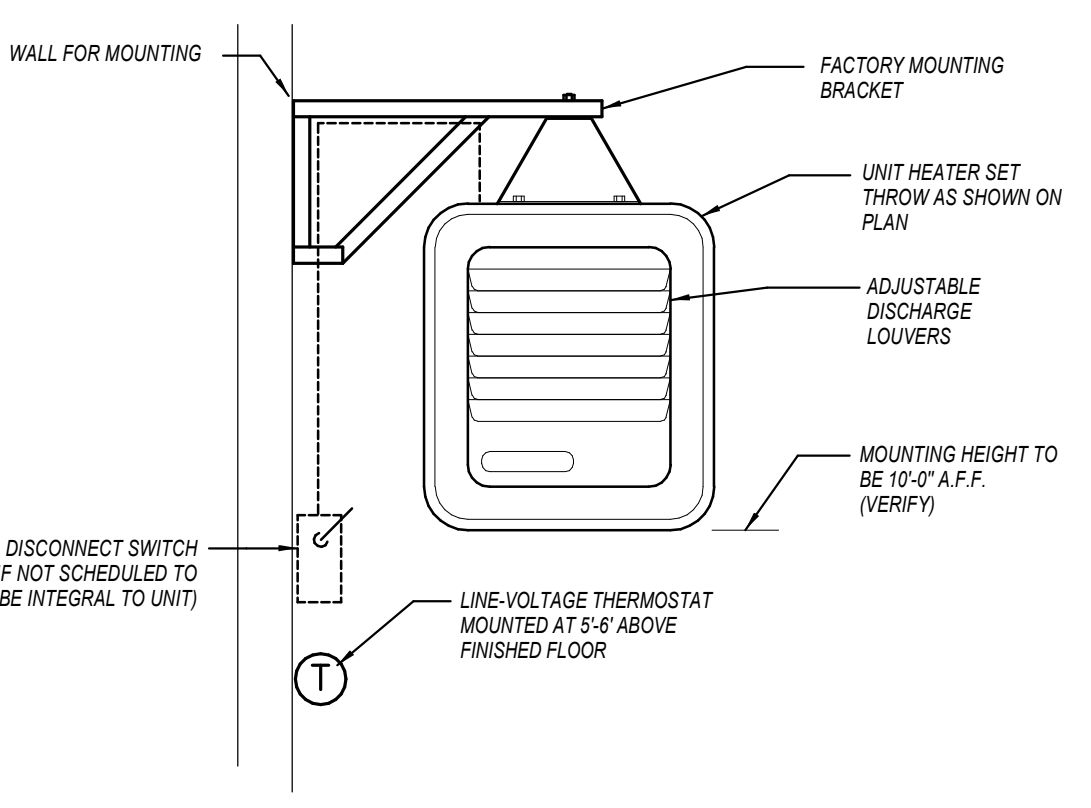
TRANSFER BOOT DETAIL



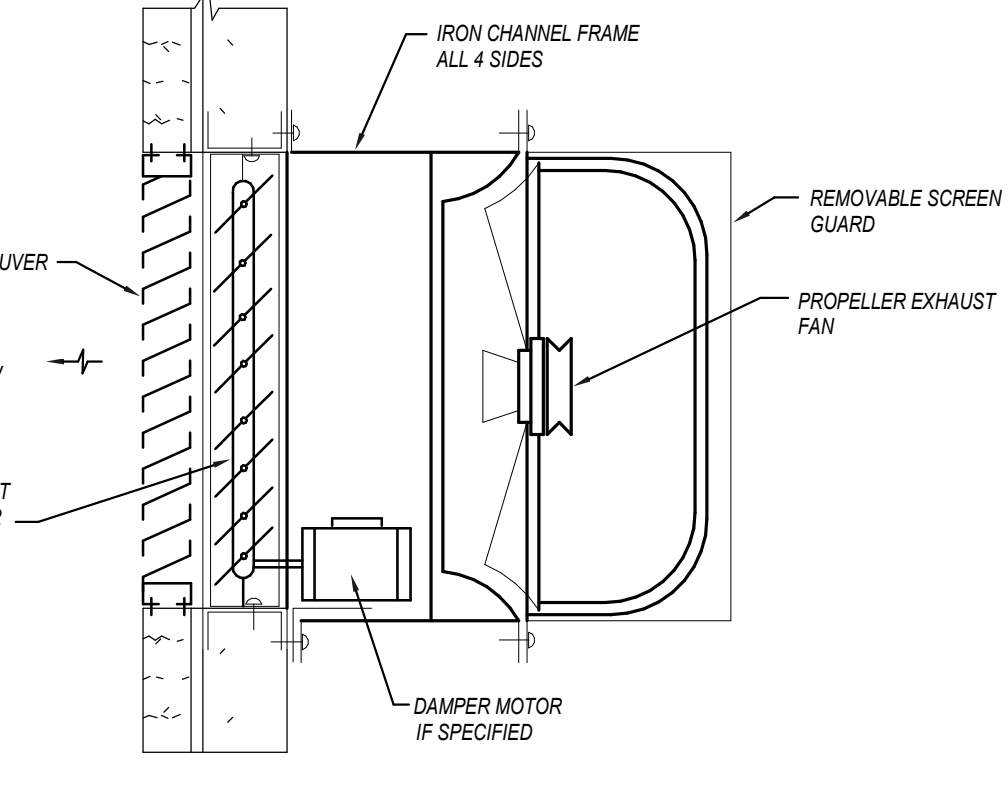
WALL-MOUNTED DUCTLESS FAN COIL UNIT DETAILS



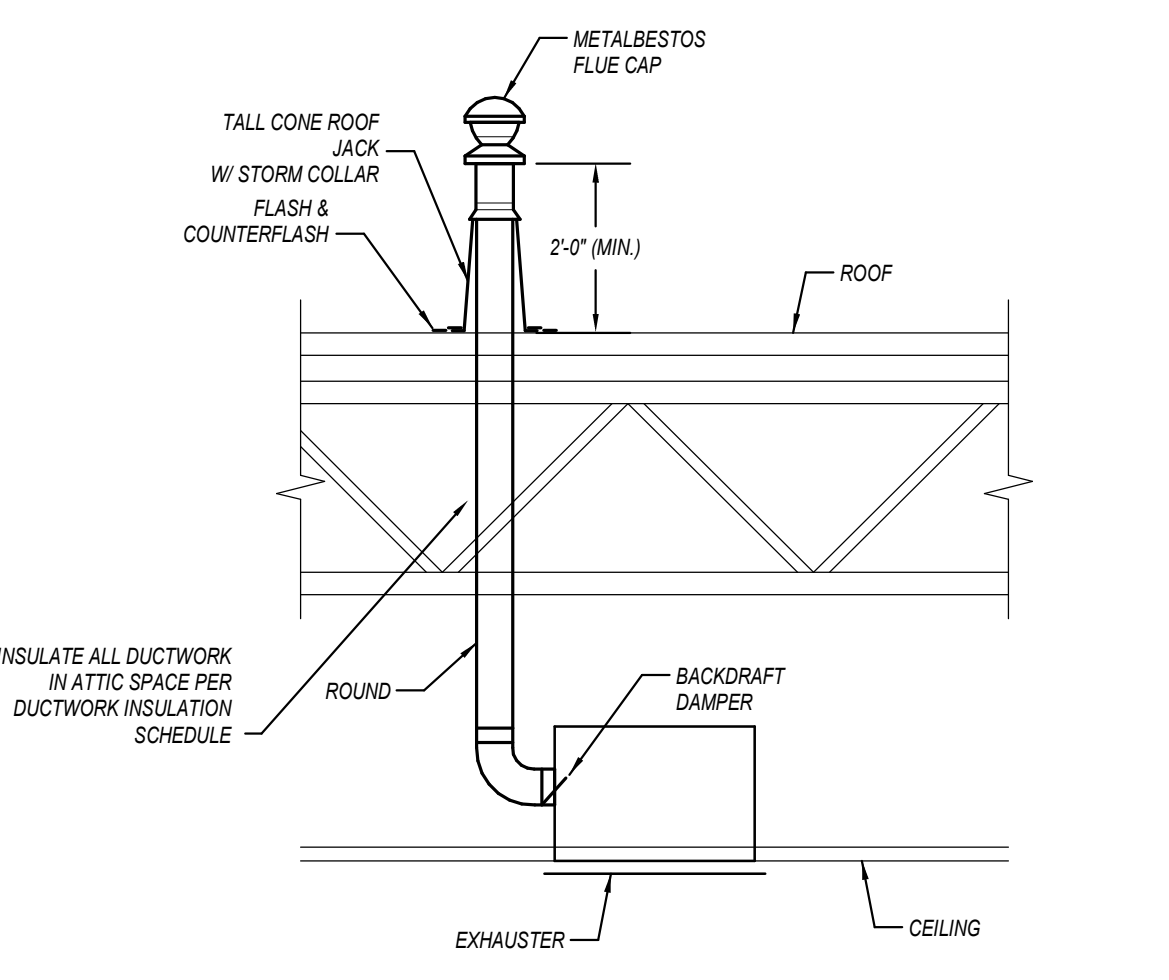
ELECTRIC UNIT HEATER DETAIL



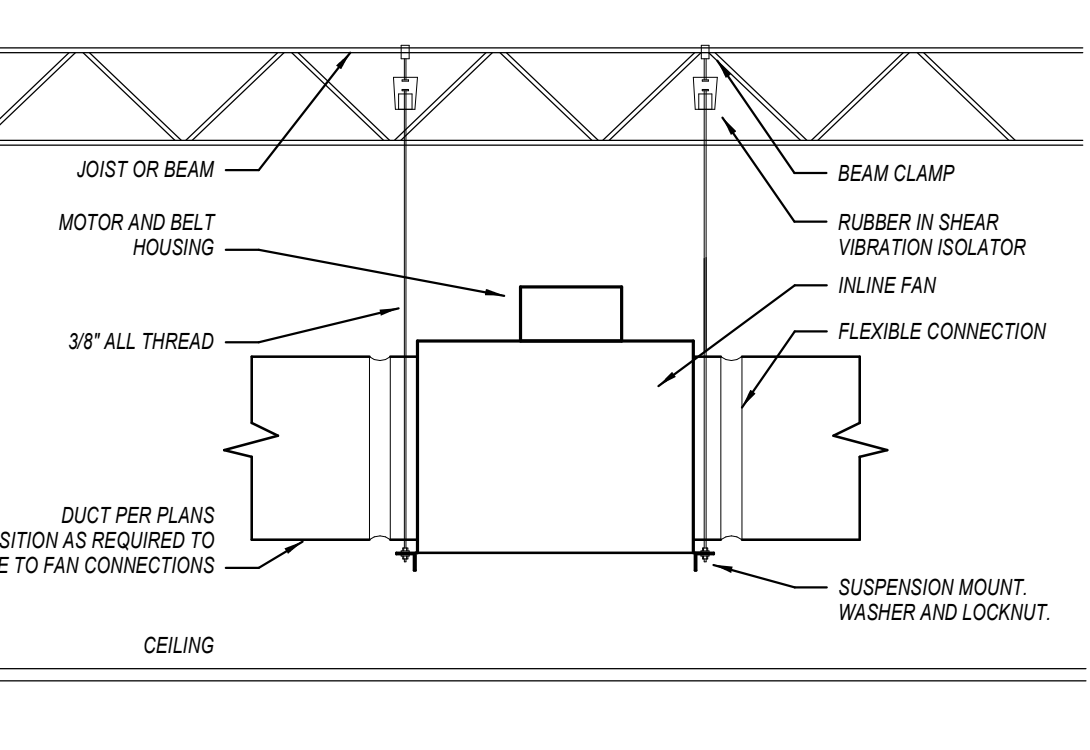
PROPELLER EXHAUST FAN DETAIL



SINGLE RESTROOM EXHAUST DETAIL



INLINE FAN MOUNTING DETAIL





Kansas Certificate of Authority #A-516

Civil Engineer
Kaw Valley Engineering
KS Certificate of Authority #29241
1627 Sunflower Lane
Salina, KS 67401
785-823-3400

Structural Engineer
Bob D. Campbell & Co.
KS Certificate of Authority #000442
4538 Bellview
Kansas City, MO 64111
816-778-7149

MEP Engineer
PKMR Engineers, Inc.
KS Certificate of Authority #E-1682
13300 W. 98th St.
Lenexa, KS 66215
913-492-2400

JOB NUMBER 22003

SALINA FIRE STATION #4
EAST CRAWFORD STREET
& MARKLEY ROAD
SALINA, KS 67401
CITY OF SALINA
755 Minnesota Ave., Suite 662 Kansas City, Kansas 66101 Tel: 816.300.4101 Fax: 816.300.4102



BID SET DOCUMENTS

ISSUE DATE 09/09/2024
No. Description Date

WSKF, Inc. © 2024

PLUMBING PLAN - DW & GAS

P1.01

SCOPE OF FIRE SUPPRESSION

CONTRACTOR SHALL INSTALL NEW NFPA-13 FIRE SUPPRESSION SYSTEM FOR BUILDING. REFER TO SPECIFICATIONS FOR REQUIREMENTS, PRODUCT SPECIFICS AND INSTALLATION PROCEDURES. SPRINKLER SYSTEM SHALL BE MONITORED BY THE FIRE ALARM SYSTEM. CONTRACTOR SHALL PROVIDE NECESSARY TAMPER FLOW SWITCH, CONTROLS, AND MONITORING AS REQUIRED. SYSTEM SHALL BE QUICK RESPONSE TYPE FOR APPROPRIATE HAZARD CLASSIFICATION. COORDINATE WITH APPROVED ARCHITECTURAL PLANS FOR CONSTRUCTION TYPES, CLASSIFICATIONS AND HAZARDS.

CONTRACTOR SHALL COORDINATE WITH OTHER TRADES AND ARCHITECTURAL PLANS FOR ROUTING OF PIPING AND PLACEMENT OF SPRINKLER HEADS. COORDINATE ATTIC LAYOUT WITH ARCHITECTURAL PLANS AND ANY DRAPSTOPS OR FIRE BARRIER LOCATIONS. PROVIDE SHOP DRAWINGS FOR APPROVAL PRIOR TO INSTALLATION SHOWING COORDINATION OF SPRINKLER PIPING AND SPRINKLER HEADS WITH OTHER TRADES.

WHERE BUILDING REMAINS UNFINISHED THE SPRINKLER SYSTEM SHALL BE DESIGNED FOR CAPACITY TO EXTEND THE SYSTEM WITHOUT RETURNING TO THE RISER LOCATION FOR FUTURE COVERAGE OF ADDITIONAL SPACES IN BUILDING.

FIRE SPRINKLER DESIGN CRITERIA

ENGINEERING DOCUMENTS SHALL BE BASED UPON THE FOLLOWING CODES AND STANDARDS (AND LIST THEM ON THE LAYOUT DOCUMENTS):
1. NFPA 13 - CURRENT EDITION

FIRE PROTECTION DOCUMENTS SHALL ALSO LIST AND/OR SHOW THE FOLLOWING UTILIZE CODE APPROVED CODE PLANS AND COORDINATE ALL AREAS OF THE BUILDING AND VARIOUS REQUIREMENTS AS MAY BE NECESSARY. GENERALLY THE BUILDING SPACES SHALL BE AS FOLLOWS, BUT MAY DIFFER IN SPECIFIC AREAS OF MULTIPLE OCCUPANCIES:

- 1. OCCUPANCY TYPE - AS LISTED ON ARCHITECTURAL CODE PLANS
- 2. CONSTRUCTION TYPE - AS LISTED ON ARCHITECTURAL CODE PLANS
- 3. DESIGN APPROACH (STATE THE FOLLOWING: RESPONSE TYPE, DENSITY, HEAD SPACING)
 - 4. INTERIOR OCCUPIED SPACES SYSTEM
 - 4.1. SYSTEM TYPE - WET
 - 4.2. HAZARD CLASSIFICATION - LIGHT
 - 4.2.1. SYSTEM RESPONSE TYPE - QUICK
 - 4.2.2. DENSITIES - 0.10 GPM/SF FOR 1,000 SF
 - 4.2.3. MAXIMUM HEAD SPACING - 225 SF
 - 4.3. HAZARD CLASSIFICATION - ORDINARY GROUP 1
 - 4.3.1. SYSTEM RESPONSE TYPE - QUICK
 - 4.3.2. DENSITIES - 0.15 GPM/SF FOR 1,000 SF
 - 4.3.3. MAXIMUM HEAD SPACING - 130 SF
 - 5. ATTIC AND OTHER AREAS SUBJECT TO FREEZING TEMPERATURES
 - 5.1. SYSTEM TYPE - DRY
 - 5.2. HAZARD CLASSIFICATION - LIGHT
 - 5.2.1. SYSTEM RESPONSE TYPE - QUICK
 - 5.2.2. DENSITIES - 0.10 GPM/SF FOR 1,000 SF
 - 5.2.3. MAXIMUM HEAD SPACING - 225 SF
- 6. CHARACTERISTICS OF WATER SUPPLY TO BE USED, INCLUDING MAIN SIZE AND LOCATION, STATIC AND RESIDUAL PRESSURES, AND FLOW RATES
- 7. THE POINT OF SERVICE FOR THE FIRE PROTECTION WATER SUPPLY
- 8. SYSTEM VALVING AND ALARM REQUIREMENTS
- 8.1. SYSTEM SHALL BE MONITORED BY THE FIRE ALARM SYSTEM OR A SEPARATE MONITORING SYSTEM PANEL, GALLERIES AND ANNUNCIATOR ACCESSORIES AS REQUIRED BY LOCAL ADOPTED CODES
- 8.2. ALL CONTROL VALVES SHALL BE EQUIPPED WITH TAMPER AND FLOW SWITCHES WIRED TO THE MONITORING SOURCE PANELS
- 9. PROVIDE ALL ADDITIONAL SYSTEM COMPONENTS FOR DRY SYSTEM INCLUDING: COMPRESSOR AND DRYER, VALVES, AND MONITORING.

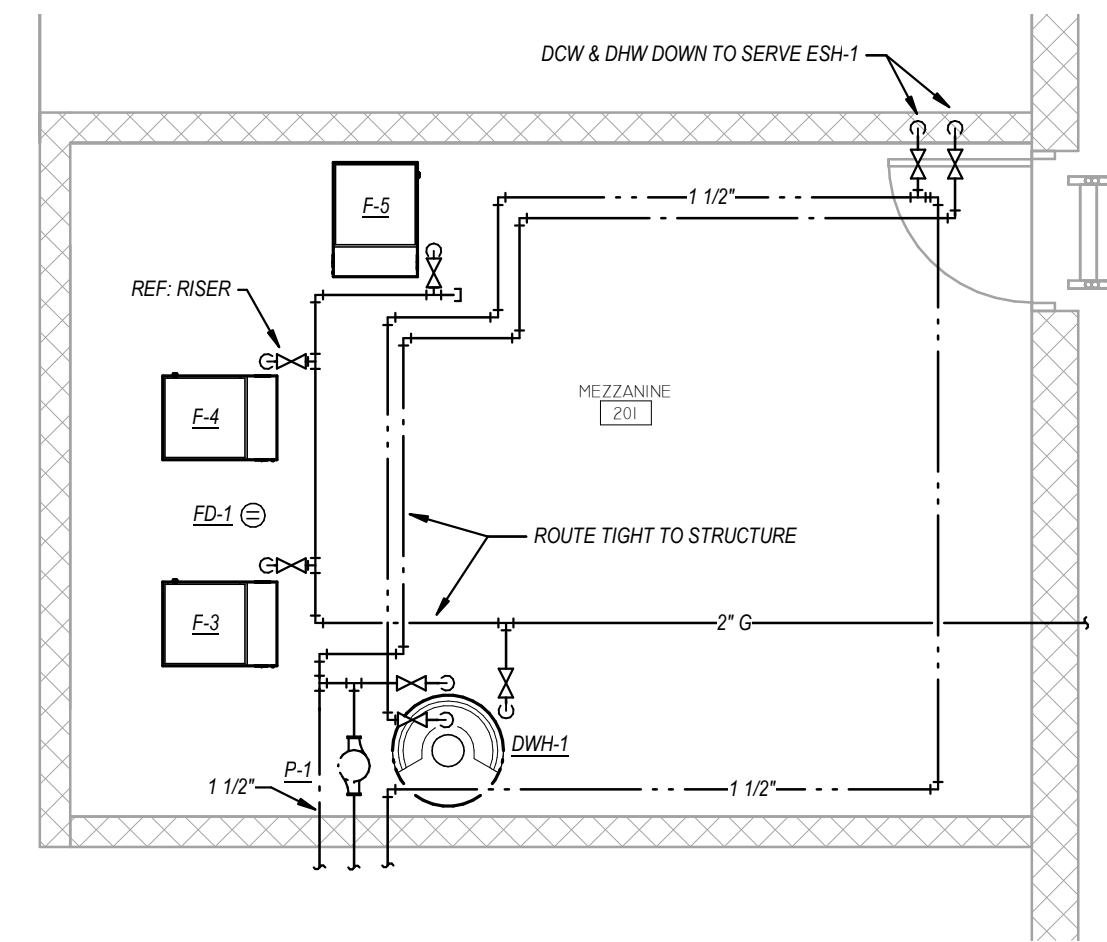
ACCEPTANCE TESTING OF FIRE PROTECTION SYSTEM SHALL BE IN ACCORDANCE WITH THE FOLLOWING CODES AND STANDARDS:
1. NFPA 25 - CURRENT EDITION

GENERAL PLUMBING NOTES

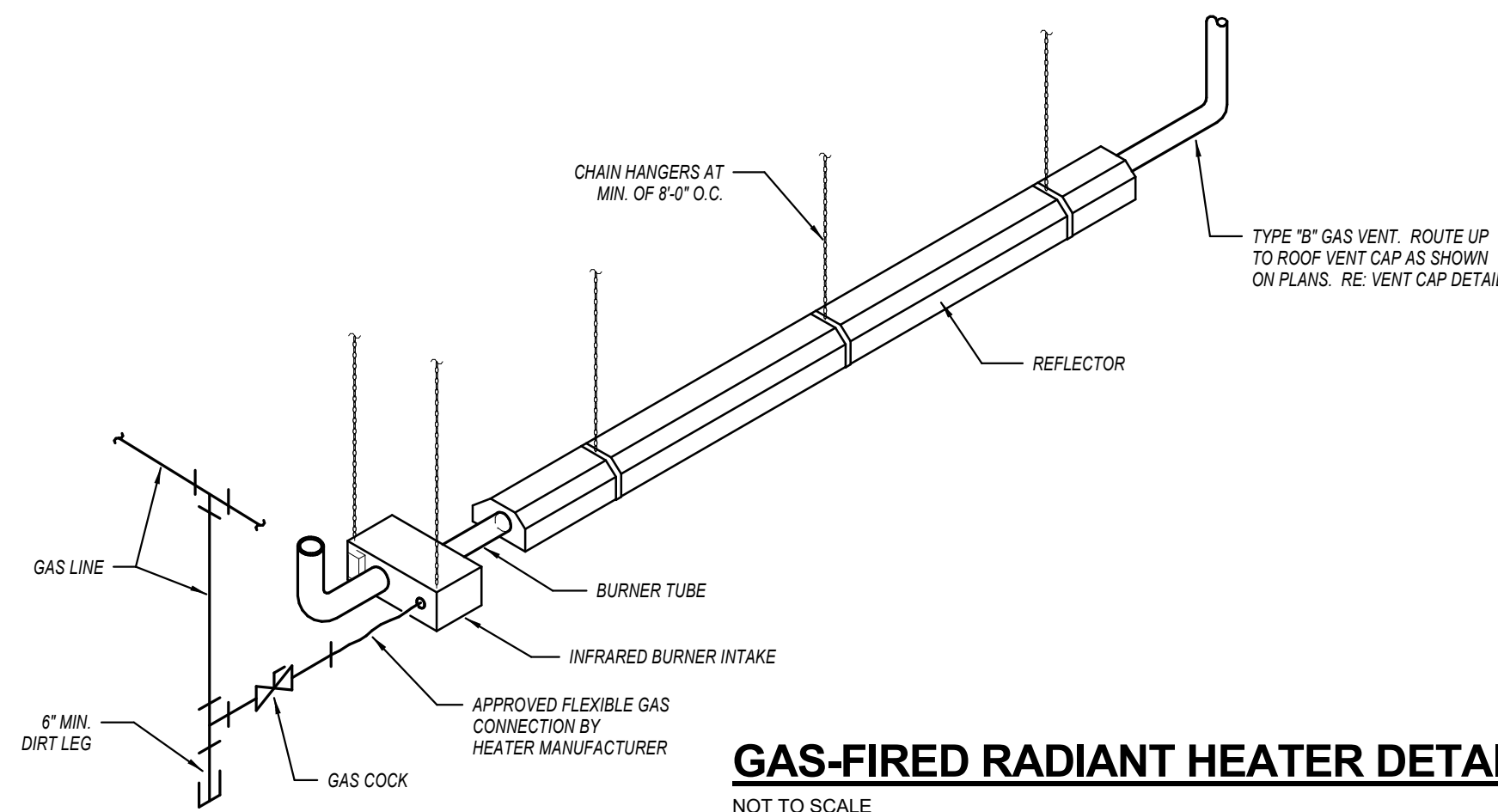
- 1. REFER TO GENERAL NOTES ON MEP COVER SHEET FOR ADDITIONAL REQUIREMENTS OF WORK.
- 2. REFER TO PLUMBING FIXTURE / DRAIN SCHEDULES FOR PIPING SIZES FOR INDIVIDUAL CONNECTIONS TO FIXTURES AND RISERS NOT SHOWN ON PLANS.
- 3. NO SANITARY OR VENT PIPING BELOW GRADE SHALL BE LESS THAN 2".
- 4. NO DOMESTIC WATER PIPING SHALL BE SMALLER THAN 3/4" UNLESS NOTED OTHERWISE.
- 5. ALL VENT PIPING SHOWN IS DIAGRAMMATIC. USE APPROPRIATE FITTINGS FOR VENT PIPING BELOW FLOORLINE OF FIXTURE.
- 6. NOT ALL CLEANOUTS ARE SHOWN FOR DRAWING CLARITY. CONTRACTOR SHALL INSTALL ALL CODE REQUIRED CLEANOUTS (IE: GENERAL NOTES ON COVER SHEET). COORDINATE EXACT LOCATIONS OF CLEANOUTS WITH ARCHITECT.
- 7. ALL FLOOR DRAIN TRAPS SHALL BE PROTECTED BY ONE OF THE FOLLOWING METHODS, TO BE INSTALLED AT CONTRACTOR'S DISCRETION AND IN COMPLIANCE WITH ADOPTED VERSION OF PLUMBING CODE AND/OR AHL:
 - 7.1. PROVIDE TRAP SEALS LISTED FOR PROPOSED USE.
 - 7.2. PROVIDE TRAP PRIMERS. 1/2" TRAP PRIMER PIPING TO NEAREST TRAP PRIMER VALVE. PIPING SHALL BE TYPE "K" SOFT COPPER SEAMLESS WITH NO JOINTS FROM VALVE TO DRAIN.

NOTES - DOMESTIC WATER

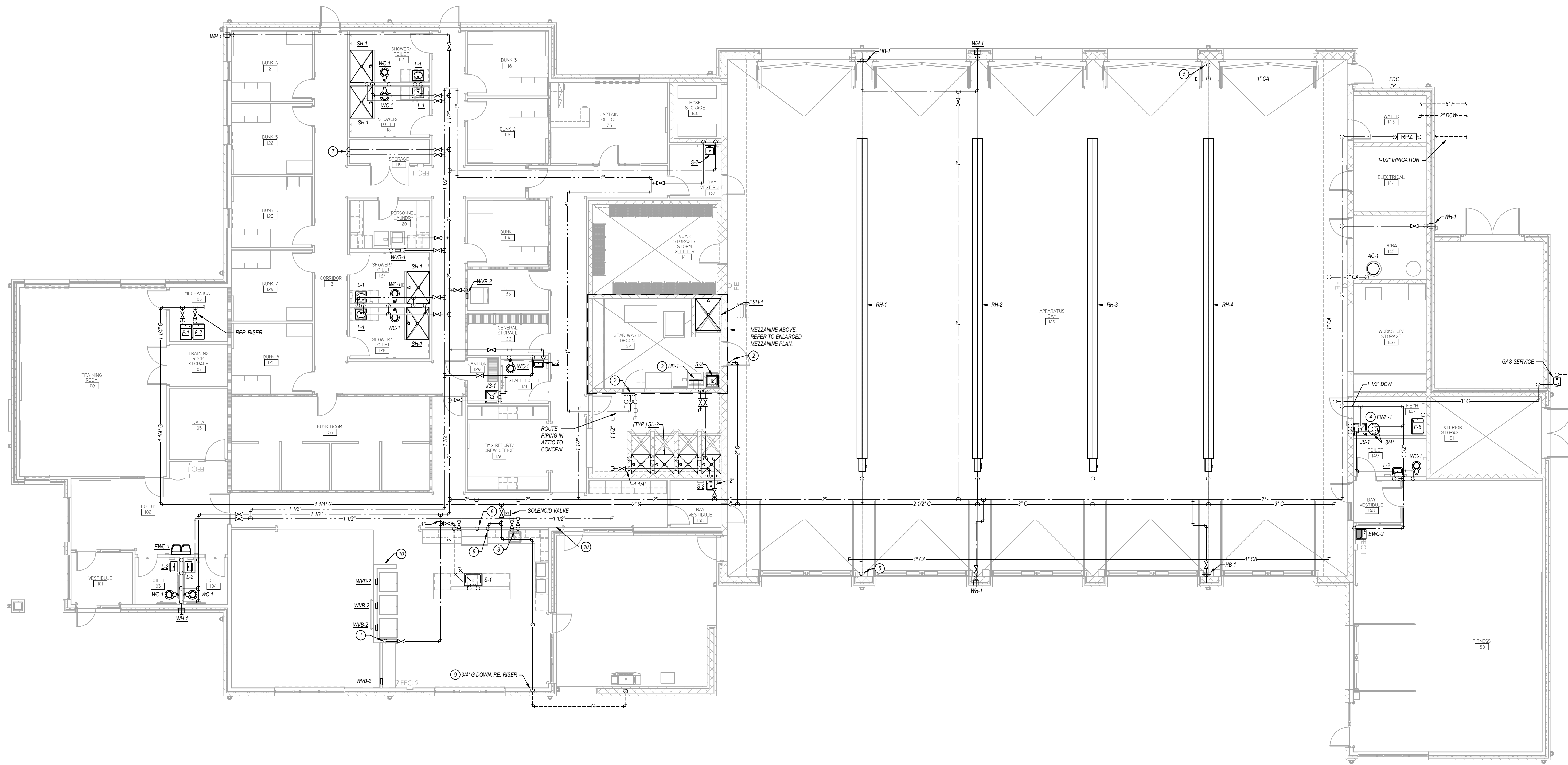
- 1. ROUTE 1" DOWN DOWN TO SERVE COFFEE MAKER, ICE MAKER, AND REFRIGERATOR CONNECTIONS.
- 2. REFER TO MEZZANINE PLAN ON SHEET P1.11 FOR CONTINUATION.
- 3. PROVIDE 1/2" FIBER GLASS SCHEDULE 40S SCHEDULES ONE DOWN AND ONE DOWN TO SERVE WASHING MACHINE. ROUTE TIGHT TO CMU WALL. PROVIDE STANDPIPE DRAIN.
- 4. MOUNT 1/2" ON SHEET ABOVE JS-1. SHOW BESIDE JS-1 FOR PLAN CLARITY. REFER TO DETAIL FOR MORE INFORMATION.
- 5. 3/4" COMPRESSED AIR DROP. PROVIDE SHUTOFF VALVE IN RISER ACCESSIBLE FROM THE GROUND.
- 6. 3/4" DOWN TO SERVE KH-1 FIRE SUPPRESSION SYSTEM.
- 7. ROUTE 1/2" DOWN DOWN AND CAP FOR FUTURE SHOWER ADDITION.
- 8. ROUTE 1/2" DOWN DOWN AND CAP FOR FUTURE SINK ADDITION.
- 9. WALL CAVITY WILL NEED TO BE VENTED FOR GAS PIPING.
- 10. PROVIDE GAS SHUTOFF BUTTON TO CLOSE GAS SOLENOID VALVE WHEN ACTIVATED.



DOMESTIC WATER ENLARGED PLANS
SCALE: 1/4" = 1'-0"



GAS-FIRED RADIANT HEATER DETAIL
NOT TO SCALE



DOMESTIC WATER & NATURAL GAS PLAN
SCALE: 1/8" = 1'-0"



PEARSON KENT MCKINLEY RAFF ENGINEERS, LLC
1330 W. 98th STREET
LENEXA, KS 66215
913.492.2400
WWW.PKMRENG.COM



Kansas Certificate of Authority #A-516

Civil Engineer
Kaw Valley Engineering
KS Certificate of Authority #29241
1627 Sunflower Lane
Salina, KS 67401
785-823-3400

Structural Engineer
Bob D. Campbell & Co.
KS Certificate of Authority #000442
4338 Bellview
Kansas City, MO 64111
816-778-7149

MEP Engineer
PKMR Engineers, Inc.
KS Certificate of Authority #E-1682
13300 W. 98th St.
Lenexa, KS 66215
913-492-2400

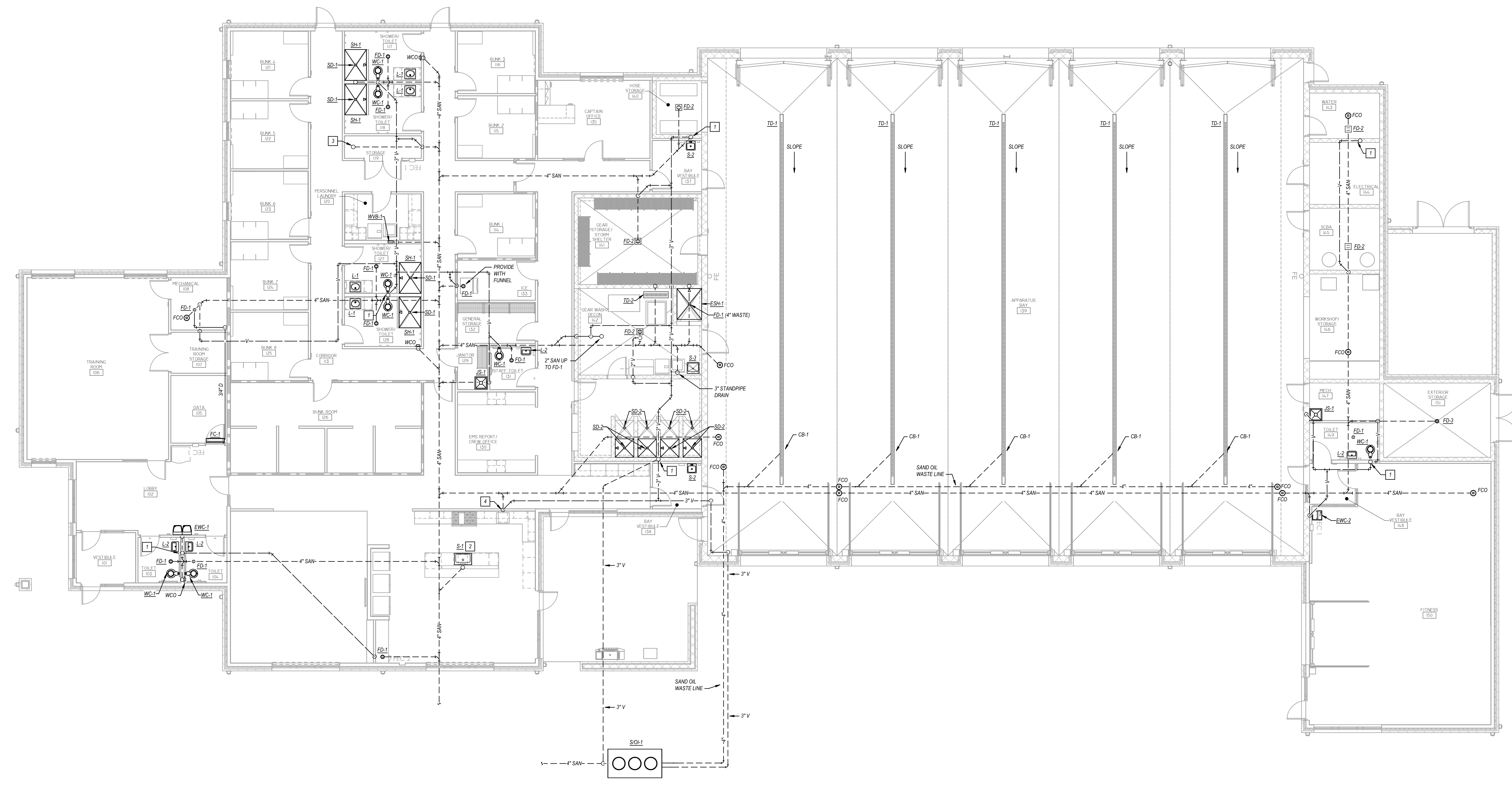
GENERAL PLUMBING NOTES

1. REFER TO GENERAL NOTES ON MEP COVER SHEET FOR ADDITIONAL REQUIREMENTS OF WORK.
2. REFER TO PLUMBING FIXTURE / DRAIN SCHEDULES FOR PIPING SIZES FOR INDIVIDUAL CONNECTIONS TO FIXTURES AND RISERS NOT SHOWN ON PLANS.
3. NO SANITARY OR VENT PIPING BELOW GRADE SHALL BE LESS THAN 2".
4. NO DOMESTIC WATER PIPING SHALL BE SMALLER THAN 3/4" UNLESS NOTED OTHERWISE.
5. ALL VENT PIPING SHOWN IS DIAGRAMMATIC. USE APPROPRIATE FITTINGS FOR VENT PIPING BELOW FLOOD RIM OF FIXTURE.
6. NOT ALL CLEANOUTS ARE SHOWN FOR DRAWING CLARITY. CONTRACTOR SHALL INSTALL ALL CODE-REQUIRED CLEANOUTS (RE GENERAL NOTES ON COVER SHEET). COORDINATE EXACT LOCATIONS OF CLEANOUTS WITH ARCHITECT.
7. ALL FLOOR DRAIN TRAPS SHALL BE PROTECTED BY ONE OF THE FOLLOWING METHODS, TO BE INSTALLED AT CONTRACTOR'S DISCRETION AND IN COMPLIANCE WITH ADOPTED VERSION OF PLUMBING CODE AND/OR AHJ.
 - 7.1. PROVIDE TRAP SEAL LISTED FOR PROPOSED USE.
 - 7.2. PROVIDE TRAP PRIMERS. 1/2" TRAP PRIMER PIPING TO NEAREST TRAP PRIMER VALVE. PIPING SHALL BE TYPE "M" SOFT COPPER SEAMLESS WITH NO JOINTS FROM VALVE TO DRAIN.

NOTES - WASTE & VENT

1. 3" VENT THROUGH ROOF. CONTRACTOR TO VERIFY VENT IS MINIMUM 10'-0" FROM ANY OUTSIDE AIR INTAKES.
2. PROVIDE AN ADMITTANCE VALVE FOR ISLAND SINK VENTING.
3. STUB 2" SANITARY UP AND CAP FOR FUTURE SHOWER ADDITION.
4. STUB 2" SANITARY UP AND CAP FOR FUTURE SINK ADDITION.

JOB NUMBER 22003



SALINA FIRE STATION #4
EAST CRAWFORD STREET
& MARKLEY ROAD
SALINA, KS 67401
CITY OF SALINA
755 Minnesota Ave., Suite 662 Kansas City, Kansas 66101 Tel. 816.300.4102 Fax 816.300.4102

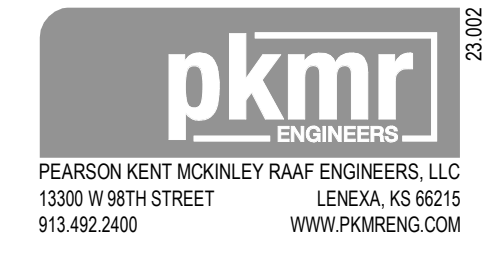


BID SET DOCUMENTS

ISSUE DATE	09/09/2024
No. Description	Date

WSKF, Inc. © 2024

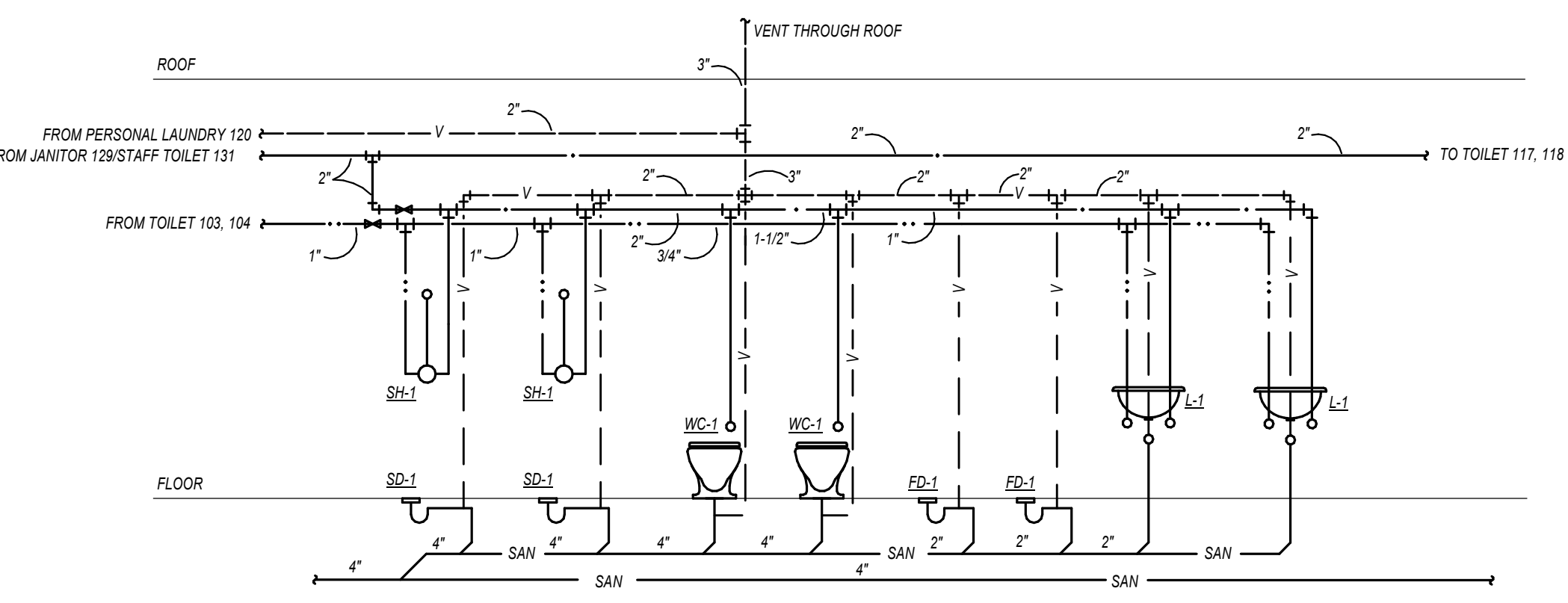
WASTE & VENT PLAN
P2.01



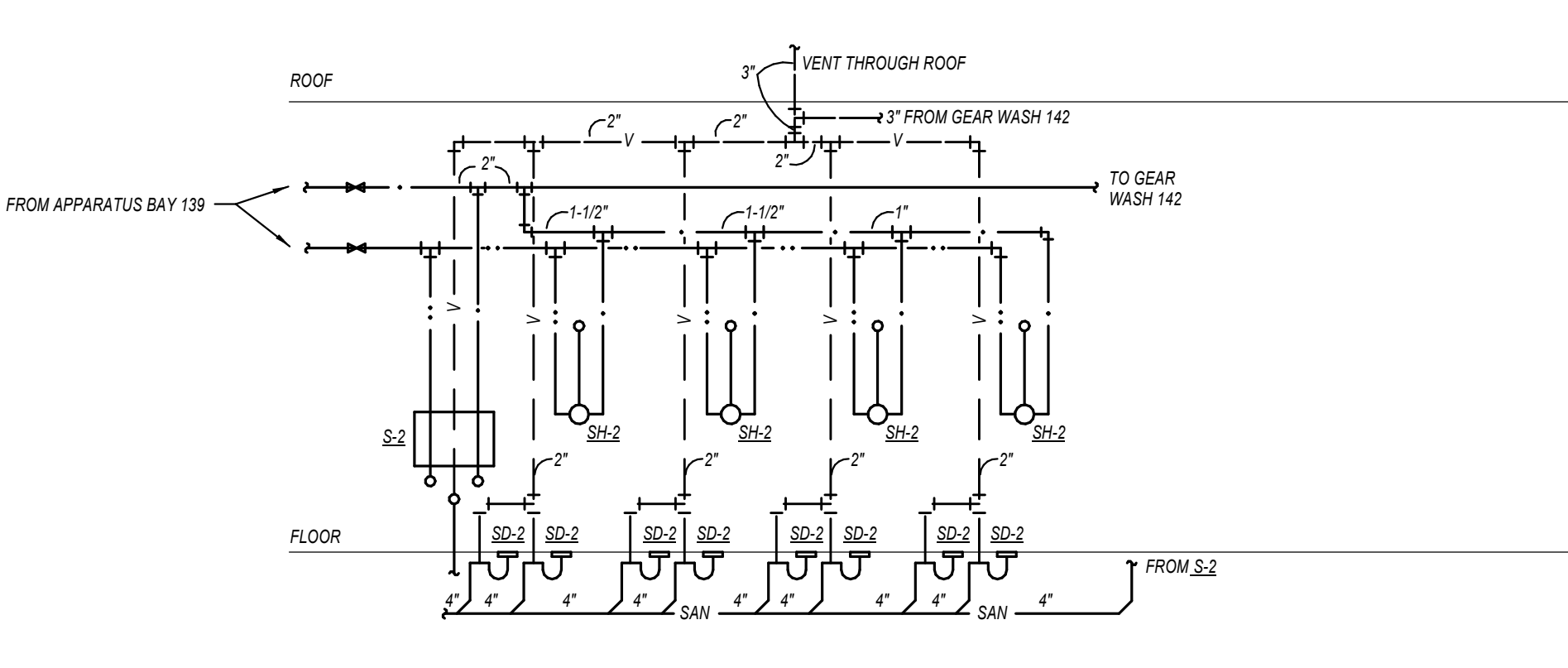
PEARSON KENT MCKINLEY RAFF ENGINEERS, LLC
13300 W. 98th STREET
LENEXA, KS 66215
913.492.2400
WWW.PKMRENG.COM

WASTE & VENT PLAN
SCALE: 1/8" = 1'-0"

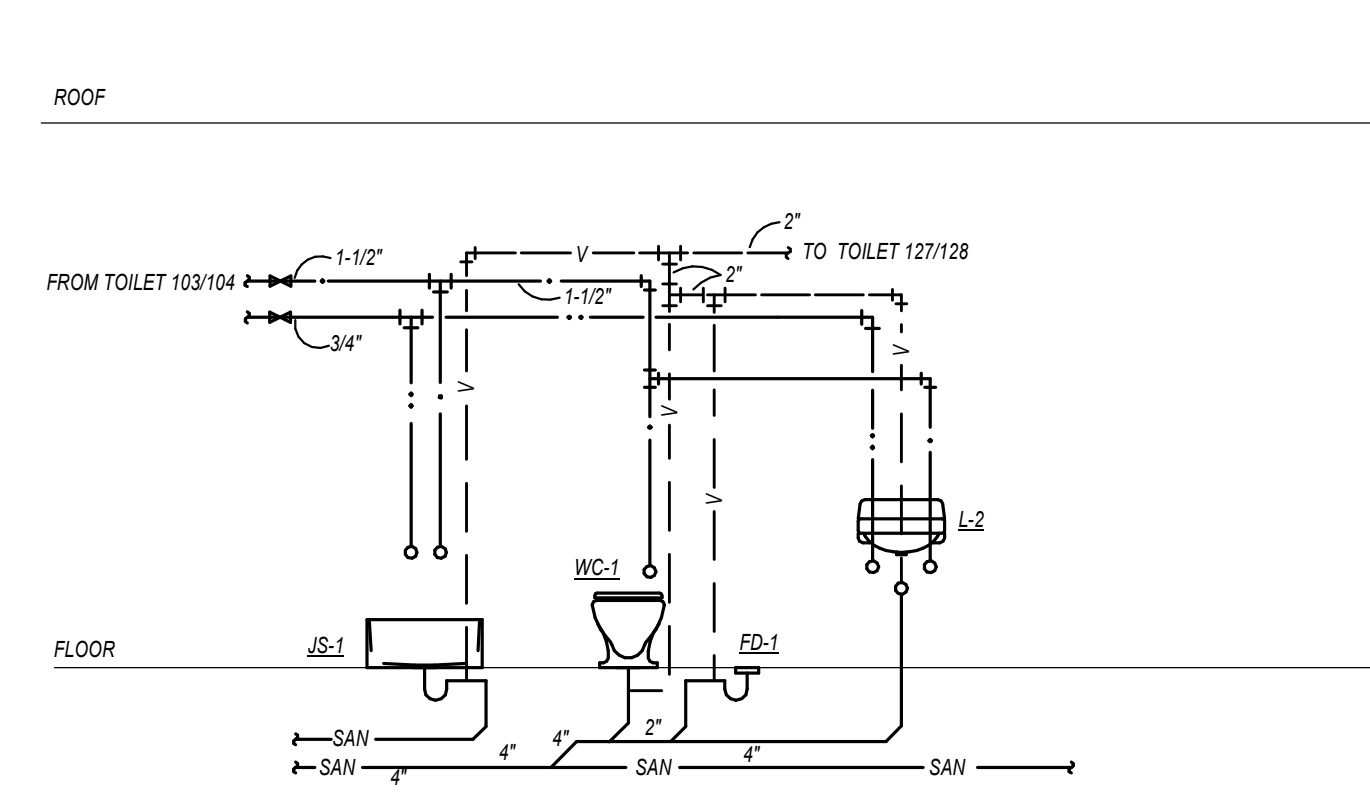




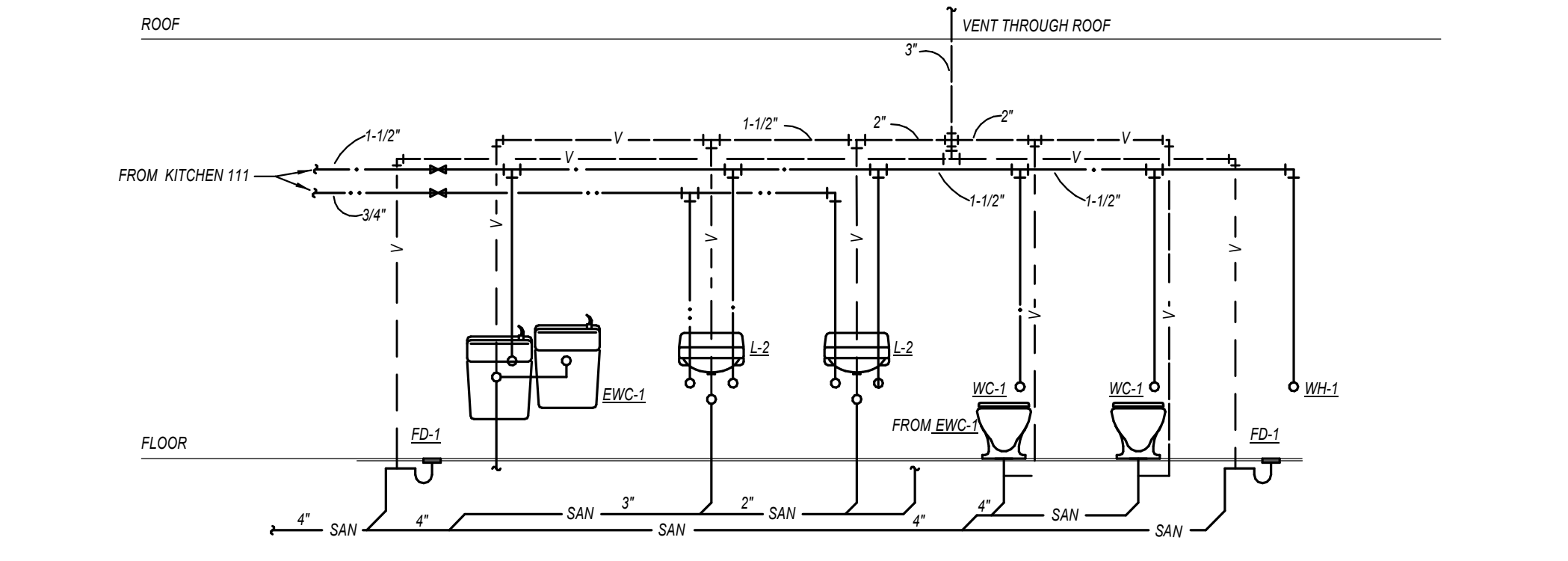
SHOWER/TOILET 127, 128



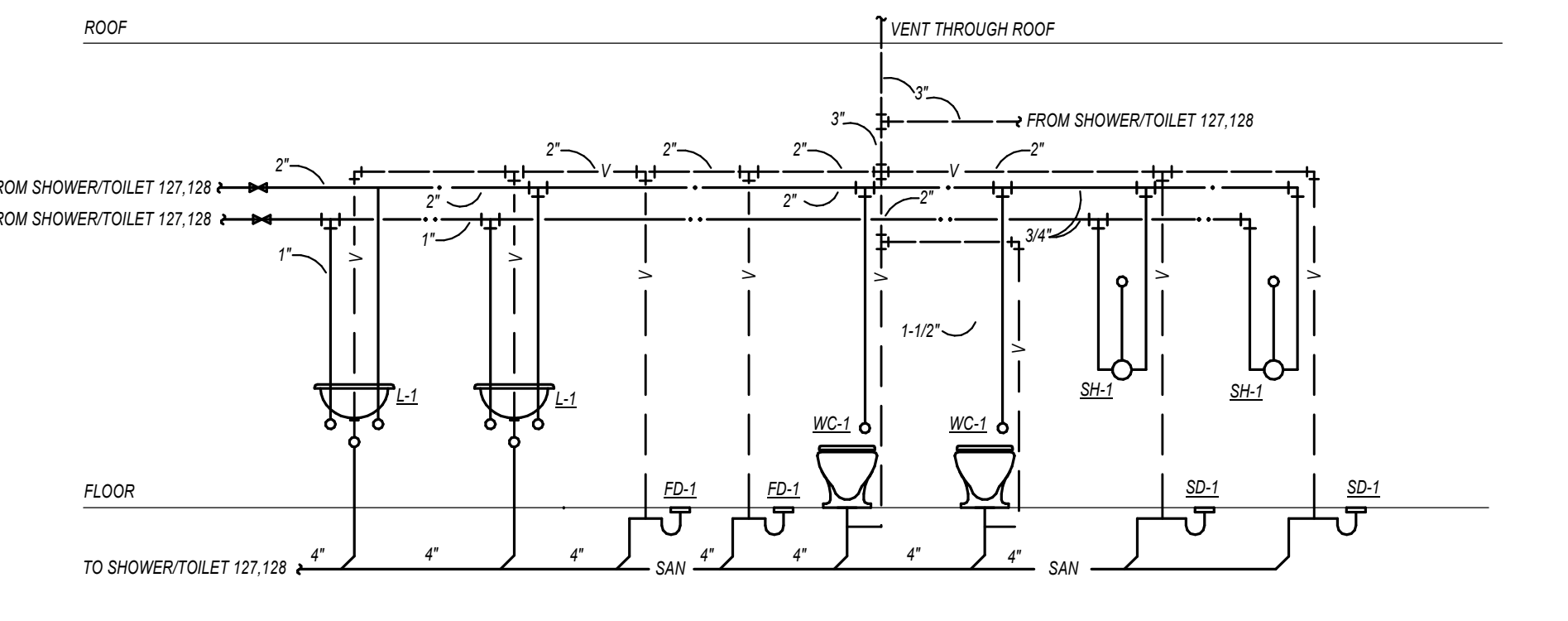
DECON SHOWERS 136 BAY VESTIBULE 138



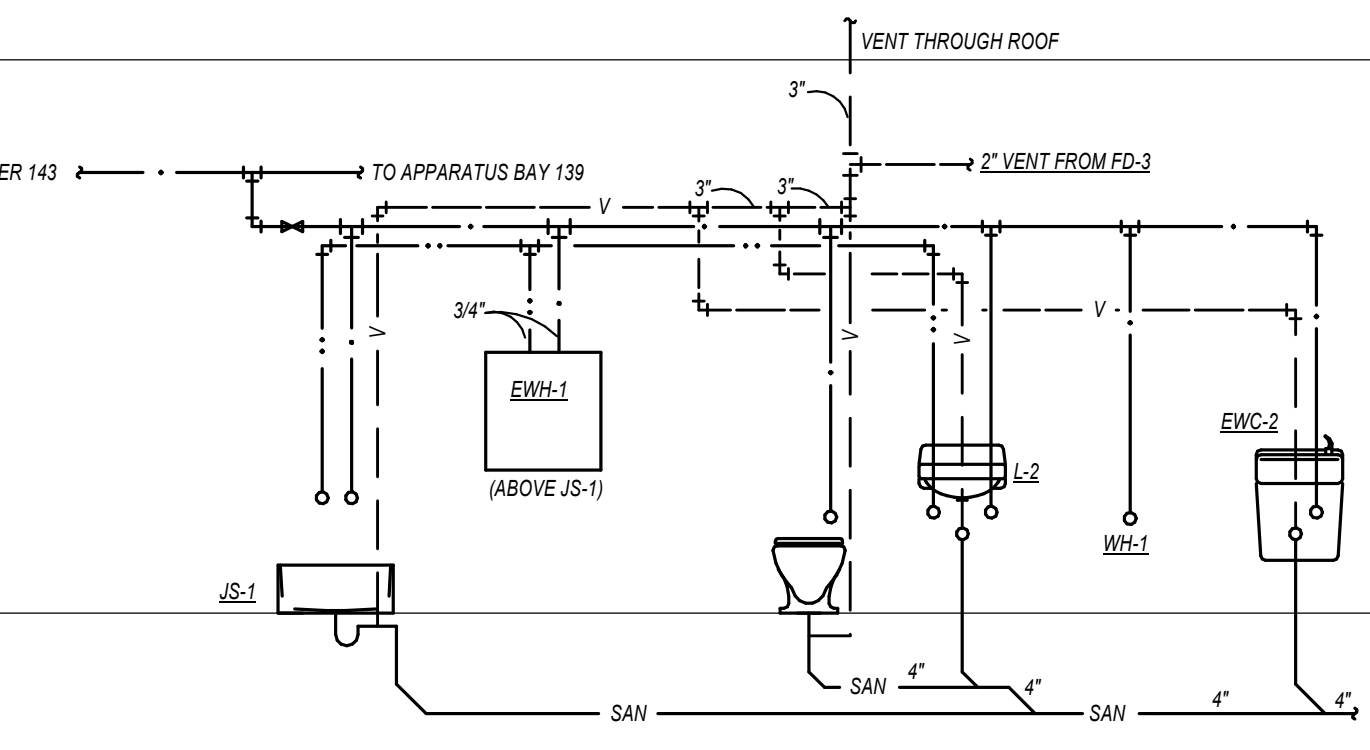
JANITOR 126 STAFF TOILET 131



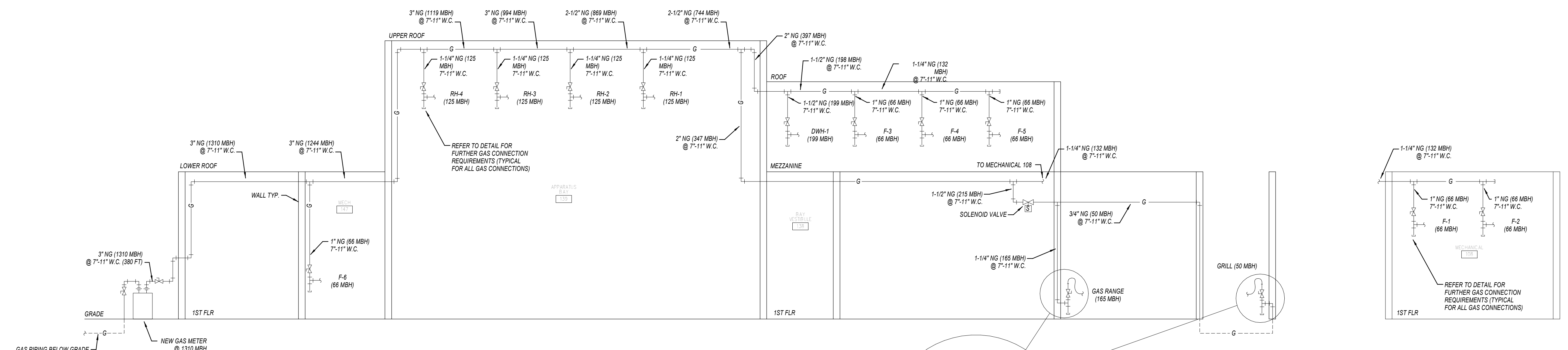
TOILET 103, 104



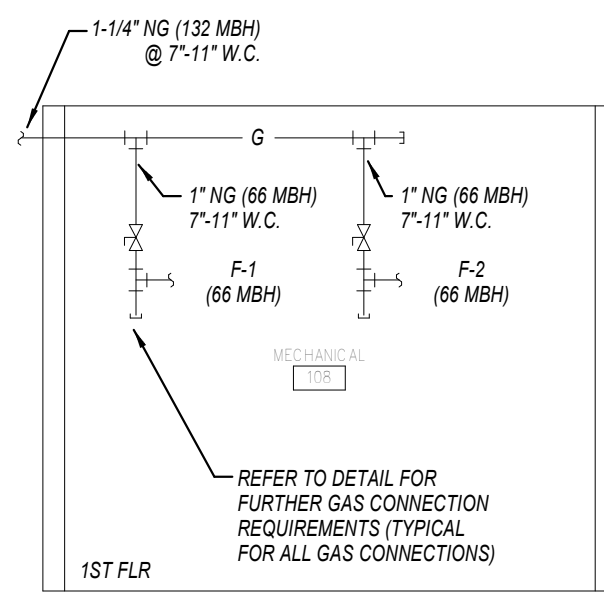
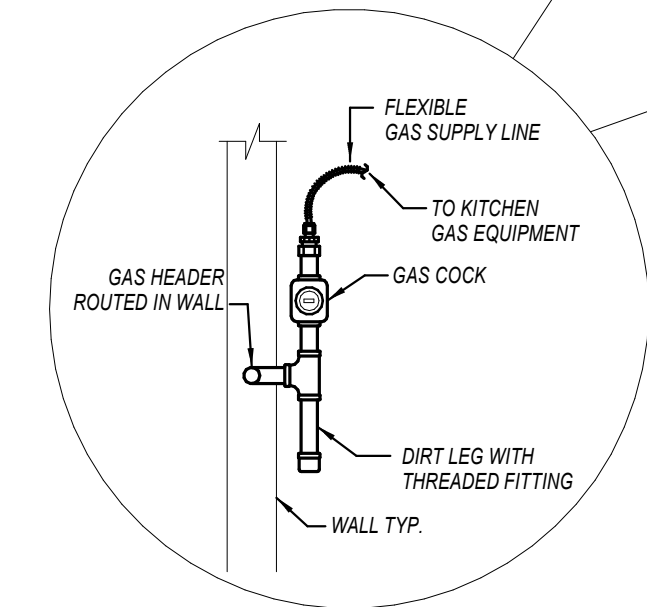
SHOWER / TOILET 117, 118



JANITOR 147/TOILET 149 FITNESS 150



NATURAL GAS RISER
NO SCALE





ELECTRIC WATER HEATER SCHEDULE

PLAN MARK	MANUFACTURER	MODEL NUMBER	GALLONS	USE	STYLE	HEIGHT (IN)	ELEMENTS		TOTAL WATTS	RECOVERY @ 90°F RISE	VOLTAGE/ PHASE	REMARKS
							NO.	WATTS				
EW#1	STATE	PCE	20	LIGHT COMM	SHORT	22	1	1,500	1,500	7	120V/1PH	1,2

REMARKS:
1. LOWBOY-TYPE WATER HEATER
2. MOUNT ON SHELF. REFER TO DETAIL.

GAS WATER HEATER SCHEDULE

PLAN MARK	MANUFACTURER	MODEL NUMBER	GALLONS	USE	STYLE	GAS INPUT (MBH)	RECOVERY @ 90°F RISE	FLUE SIZE (IN/OUT)	VOLTAGE/ PHASE	REMARKS

REMARKS:
1. PROVIDE MOUNTING LEGS ALONG WITH ALL OTHER VALVES & ACCESSORIES SHOWN IN WATER HEATER DETAIL. REF. DETAIL FOR MORE INFORMATION.

SAND-OIL INTERCEPTOR SCHEDULE

PLAN MARK	MANUFACTURER	SERVICE	MODEL NUMBER	MAX FLOW RATE	OIL / SAND CAPACITY	LIQUID CAPACITY	INLET SIZE	OUTLET SIZE	REMARKS

REMARKS:
1. PROVIDE WITH FIELD ADJUSTABLE RISERS AS REQUIRED TO EXTEND COVERGRADE TO FINISHED FLOORGRADE.
2. PROVIDE WITH H20 RATED CAST IRON COVERS. 20,000 LB CAPACITY.

AIR COMPRESSOR SCHEDULE

PLAN MARK	MANUFACTURER	MODEL NUMBER	HP	CFM OPEN FLOW	COMP STAGES	TANK			VOLTAGE	REMARKS
						LUBRICATION	CAPACITY U.S. GAL.	MAX. PRESS (PSIG)		
AC-1	INGERSOLL RAND	234LS	5	14	2	DILLESS	60.0	175.0	208V/1PH	1

REMARKS:
1. AIR COMPRESSOR SELECTED MUST MEET ENGINEERING DATA PROVIDED IN SCHEDULE.

DOMESTIC RECIRCULATION PUMP SCHEDULE

PLAN MARK	MANUFACTURER	MODEL NUMBER	GPM	HEAD (FT. WC)	HP	MAX. RPM	ELECTRICAL	NOTES

REMARKS:
1. MOUNT PUMP AND ACCESSORIES NEAR WATER HEATER AND NO HIGHER THAN 6' AFF.
2. ECM MOTOR WITH INTEGRAL SPEED CONTROL AND TEMPERATURE SWITCH AND DISCONNECT.
3. INTEGRAL PRESSURE SENSOR FOR FLOW SENSING. PUMP TO TURN ON WHEN HOT WATER DEMAND IN SPACE IS SENSED. INTEGRAL TEMPERATURE SENSOR. PUMP TO MAINTAIN DESIRED TEMPERATURE IN LOOP AND TURN OFF WHEN TEMPERATURE IS HIT AND NO DEMAND IS SENSED. PUMP TO HAVE INTEGRAL AUTOMATIC ADJUSTABLE NIGHT MODE.

DRAIN SCHEDULE

PLAN MARK	MANUFACTURER	MODEL NUMBER	SERVICE	TYPIC GRADE	WASTE SIZE	VENT SIZE	REMARKS
FD-1	MFAB	F1100	FLOOR DRAIN	6"Ø	2"	1-1/2"	1,3
FD-2	MFAB	FS450	FLOOR DRAIN	12"x12"	3"	2"	-
FD-3	MFAB	F1100	FLOOR DRAIN	6"Ø	3"	2"	1,3
SD-1	DATEY	42150	SHOWER DRAIN	4-1/4"Ø	2"	1-1/2"	1
SD-2	MFAB	F1100	SHOWER DRAIN	5"Ø	2"	1-1/2"	1
TD-1	MFAB	T7400	TRENCH DRAIN	6" WIDE	---	---	4,5
TD-2	MFAB	T1200	TRENCH DRAIN	48"x12"	2"	---	4
CB-1	MFAB	T1400-CB800	CATCH BASIN	6" WIDE	---	---	6

REMARKS:
1. PROVIDE WITH STAINLESS STEEL TOP.
2. PROVIDE WITH FUNNEL.
3. PROVIDE WITH TRAP SEAL. SURE SEAL OR APPROVED EQUAL.
4. PROVIDE WITH ALL REQUIRED ACCESSORIES INCLUDING END CAPS, JOINT CONNECTORS, AND BODY SUPPORTS.
5. PROVIDE WITH HEAVY DUTY GRATE TRAFFIC RATED.
6. PROVIDE WITH SEDIMENT BUCKET.

EXPANSION TANK SCHEDULE

PLAN MARK	MANUFACTURER	MODEL NUMBER	TOTAL VOLUME (GAL.)	ACCEPTANCE VOL (GAL.) @ 60PSI	NOTES
ET-1	STATE	ETC-10X	9.2	5.3	1

REMARKS:
1. PROVIDE 5 YEAR WARRANTY.

PLUMBING FIXTURE SCHEDULE

MARK	FIXTURE MODEL	FITTINGS AND DESCRIPTION	FITTINGS MODEL	FITTINGS AND DESCRIPTION	REMARKS	PLUMBING FIXTURE PIPE SIZES			
						WASTE	VENT	DCW	DHW
WO-1	AMERICAN STANDARD 3641.001	ADA-COMPLIANT, 1.8 GALLON, FLOOR/MOUNTED/FLUSH VALVE WATER CLOSET, TOP SPRING AND FLAT BOLT COVERS. WHITE VITREOUS CHINA ELONGATED BOWL.	SLD41 111 "ROYAL"	EXPOSED WATER CLOSET FLUSH VALVE. CHROME-PLATED METAL OSCILLATING NON-HOLD-OPEN HANDLE. 1" P.S. SCREWDRIVER BACK-CHECK ANGLE STOP WITH PROTECTIVE CAP. ADJUSTABLE TAILPIECE 1.8 GALLON VACUUM BREAKER FLUSH CONNECTION AND SPUD COUPLING FOR 1-1/2" TOP SPUD. PROVIDE WALL AND SPUD FLANGES. HANDLE HEIGHT PER MANUFACTURER'S RECOMMENDATIONS - MAX OF 30" A.F.F.	6	4"	2"	1-1/2"	---
L-1	KOHLER BROOKLINE K2205-1	ADA-COMPLIANT, COUNTER TOP MOUNTED LAVATORY. 19" ROUND WHITE VITREOUS CHINA SELA-RIMMING BASIN WITH FRONT OVERFLOW.	DELTA TRINISC 556F	SOLID BRASS BODY CERAMIC DISC CARTRIDGE, SINGLE LEVER HANDLE. 5" REACH. RED-BLUE MARKINGS ON HANDLE FOR HOT/COLD IDENTIFICATION. 1.5 GPM FINISH. STAINLESS.	1,2,5,7	1-1/4"	1-1/4"	1/2"	5/2"
L-2	AMERICAN STANDARD DECORUM 8024.001EC	ADA-COMPLIANT LAVATORY. WHITE VITREOUS CHINA, WALL MOUNT, 20" X 19" BOWL WITH REAR OVERFLOW. SINGLE FAUCET HANDLE. PROVIDE WITH CONCEALED ARM CARRIER. MOUNT TOP-OF-RIM AT 34" AFF.	DELTA TRINISC 556F	SOLID BRASS BODY CERAMIC DISC CARTRIDGE, SINGLE LEVER HANDLE. 5" REACH. RED-BLUE MARKINGS ON HANDLE FOR HOT/COLD IDENTIFICATION. 1.5 GPM FINISH. STAINLESS.	1,2,3,4,5	1-1/4"	1-1/4"	1/2"	5/2"
SH-1	---	EPOXY SHOWER FLOOR BY ARCHITECTURAL WITH 2" SHOWER DRAIN DESIGNATED SD-1. REFER TO DRAIN SCHEDULE.	KOHLER FURIST KTS-14424	SHOWER SYSTEM, SINGLE LEVER HANDLE. TEMPERATURE AND PRESSURE BALANCED MIXING VALVE WITH ADJUSTABLE STOP. SCREW LIMITS. SHOWER HEAD, MOUNTING BRACKET AND FLANGE. PROVIDE 2.5 GPM FLOW RATE FINISH. MATTE BLACK.	---	2"	2"	1/2"	1/2"
SH-2	---	EPOXY SHOWER FLOOR BY ARCHITECTURAL WITH 2" SHOWER DRAIN DESIGNATED SD-2. REFER TO DRAIN SCHEDULE.	SURFASHOWER SS-PM-204VX	STAINLESS STEEL SHOWER ASSEMBLY. PRESSURE BALANCING PISTON. BUILT-IN SHUT-OFF. INTEGRAL CHECK STOPS AND SCAM DRUM. MOUNTING BRACKETS, 18 GAUGE STAINLESS STEEL COVER. #4 FINISH WITH SLOPING TOP CAP.	---	2"	2"	1/2"	1/2"
S-1	ELKAY DLK332E10	33"x22"x10-1/2" SINGLE BOWL DROP IN SINK. 18 GAUGE 304 STAINLESS STEEL WITH LUSTROUS SATIN FINISH. CENTER DRAIN PLACEMENT.	ELKAY LKA4V2R1	SINGLE HOLE KITCHEN FAUCET WITH SEMI-PROFESSIONAL SPOUT. CERAMIC DISC VALVE AND SINGLE LEVER HANDLE FOR BOTH VOLUME AND TEMPERATURE CONTROL. 360° SWIVEL SPOUT. 1.8 GPM FLOWRATE. SOLID BRASS CONSTRUCTION WITH LUSTROUS STEEL FINISH.	2,3,5,8	2"	2"	1/2"	1/2"
	IN-SINK-ERATOR BADGER 5	GARBAGE DISPOSAL, 1/2 HP MOTOR, STAINLESS STEEL GALVANIZED STEEL CONSTRUCTION AND GRINDING ELEMENTS. PERMANENTLY LUBRICATED BEARINGS. PROVIDE WITH STAINLESS STEEL SINK FLANGE AND STOPPER.	---	---	---	---	---	---	---
S-2	ADVANCED TABCO 7-PS-45	HANDWASH SINK. WALL MOUNTED, ONE PIECE, SEAMLESS, HEAVY GAUGE, TYPE 304 STAINLESS STEEL, DIE FORMED COUNTERTOP EDGE WITH A NO-CURVE OFFSET. SATIN FINISH. PROVIDE ALL WALL MOUNTING BRACKETS AND ACCESSORIES.	ADVANCED TABCO ---	FAUCET, INTEGRAL 4" O.C. SPLASH MOUNTED.	2,3,8	1-1/2"	1-1/2"	1/2"	1/2"
S-3	ELKAY SSB1242	UTILITY SINK. STURDIBILT 27" X 27-1/2" X 14" FLOOR MOUNT SINGLE COMPARTMENT UTILITY SINK. 14 GAUGE 304 STAINLESS STEEL WITH BUZZER SATIN FINISH. CENTER DRAIN PLACEMENT.	ELKAY LK400	4"-8-3/8" ADJUSTABLE CENTERS WALL MOUNT FAUCET. 2" LEVER HANDLES. ROUNDRIDGE FAUCET HAS A FLOW RATE OF 2.2 GPM. CHROME-PLATED BRASS MATERIAL WITH BRASS STEEL ASSEMBLY VALVE.	---	3"	2"	1/2"	1/2"
JS-1	ELKAY 14-1C1824-0X	JANITORS SINK. STAINLESS STEEL 20-26"x19"x43-3/4" 18 GAUGE ONE COMPARTMENT SINK WITH STAINLESS STEEL LEGS. SINK IS MANUFACTURED FROM 18 GAUGE 304 SERIES STAINLESS STEEL WITH #4 FINISH. CENTER DRAIN PLACEMENT.	ELKAY LK468R13T4H	2" CENTERSET WALL MOUNT FAUCET WITH 3" BUCKET HOOK. 4" WRISTBAND HANDLES. 1/2" OFFSET INLET POLYURETHANE. FAUCET HAS A FLOWRATE OF 4 GPM WITH A QUARTER TURN CERAMIC DISC VALVE. FAUCET REQUIRE 2 FAUCET HOLES.	---	3"	2"	1/2"	1/2"
EW-1	HALSEY-TAYLOR HTHB-HACBLLWF	ADA-COMPLIANT, DUAL-HEIGHT, BARRIER-FREE, ELECTRIC WATER COOLER PROVIDES 8.0 GPM OF 80°F WATER AT 90°F AMBIENT. ADA-COMPLIANT FRONT AND SIDE PUMPBARS. LEAD FREE INTEGRAL FILTER. MOUNT WITH MIN. 27" KNEE CLEARANCE AND SPOUT AT NO MORE THAN 36" A.F.F.	HALSEY-TAYLOR HTHB-HACBLLWF	BOTTLE FILLER SHALL INCLUDE ELECTRONIC SENSOR FOR NO-TOUCH ACTIVATION WITH AUTOMATIC 20-SECOND SHUT-OFF. SHALL PROVIDE 1.1 GPM LAMINAR FLOW. ANTI-MICROBIAL PROTECTED PLASTIC COMPONENTS.	4	2"	2"	1/2"	---
EW-2	HALSEY-TAYLOR HTHB-HACBWF	ADA-COMPLIANT, BARRIER-FREE, ELECTRIC WATER COOLER PROVIDES 8.0 GPM OF 80°F WATER AT 90°F AMBIENT. ADA-COMPLIANT FRONT AND SIDE PUMPBARS. LEAD FREE INTEGRAL FILTER. MOUNT WITH MIN. 27" KNEE CLEARANCE AND SPOUT AT NO MORE THAN 36" A.F.F.	HALSEY-TAYLOR HTHB-HACBWF	BOTTLE FILLER SHALL INCLUDE ELECTRONIC SENSOR FOR NO-TOUCH ACTIVATION WITH AUTOMATIC 20-SECOND SHUT-OFF. SHALL PROVIDE 1.1 GPM LAMINAR FLOW. ANTI-MICROBIAL PROTECTED PLASTIC COMPONENTS.	---	4	2"	2"	1/2"
WVB-1	GUY GREY B200	WASHING MACHINE SUPPLY AND DRAIN BACK BOX. PROVIDE WITH DRAIN AND DRAIN FITTINGS.	---	---	---	2"	2"	1/2"	1/2"
WVB-2	SLOUX CMHF CR BOX	KEE MAKER WATER VALVE BACK BOX. PROVIDE WITH QUARTER TURN BRASS BALL VALVES.	---	---	---	---	---	1/2"	---
WH-1	WOODGORD 865-8	NON-FREEZE WALL HYDRANT. BRONZE NICKEL PLATED. INTEGRAL VACUUM BREAKER. QUARTER TURN 7" HANDLE KEY. 3/4" THREADED HOSE CONNECTION. ADJUSTABLE WALL CLAMP AND STAINLESS STEEL BOX.	---	---	---	---	---	3/4"	---
HB-1	PRIER P-156MP 75	EXPOSED PIPE HOSE BIB. INTEGRAL VACUUM BREAKER. 3/4" THREADED HOSE CONNECTION. PROVIDE RED AND BLUE METAL HANDLES TO SUIT APPLICATION. 3/4" INLET.	---	---	---	---	---	3/4"	---
ESH-1	BRADLEY S1914BSS	EMERGENCY COMBINATION DRENCH SHOWER AND EYEWASH WASH. 30-90 PSI FLOW CONTROL. STAINLESS STEEL. SHOWER PULL ROD WITH TRIANGULAR HANDLE. 10"Ø STAINLESS STEEL HEAD WITH 20 GPM DISCHARGE. PROVIDE WITH HOSE SPRAY.	BRADLEY S19-2150	EMERGENCY FIXTURE. THERMOSTATIC MIXING VALVE - EXP. PROVIDE CHECKSTOPS ON INLETS AND DIAL THERMOMETER. PIPE PER MANUFACTURER'S REQUIREMENTS.	---	---	---	1-1/4"	1"

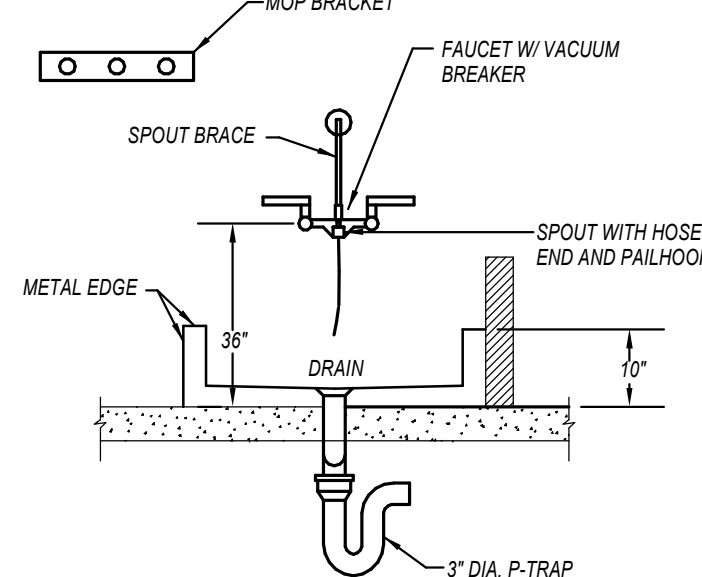
REMARKS:
1. PROVIDE CHROME-PLATED BRASS TAILPIECE AND GRID DRAIN.
2. PROVIDE CHROME-PLATED BRASS P-TRAP
3. PROVIDE COCK KEY STOPS AND FLEXIBLE RISERS.
4. PROVIDE CONCEALED ARM TYPE CARRIER WITH SQUARE, TUBULAR STEEL, UP-RIGHTS AND BLOCK TYPE BASES.
5. INSULATE EXPOSED TAILPIECE, P-TRAP AND WATER RISERS. REFER TO SPECIFICATIONS FOR INSULATION METHODS.
6. PROVIDE FLUSH VALVE HANDLE ON WIDE SIDE OF STALL.
7. PROVIDE HANDLE STOPS AND FLEXIBLE RISERS.
8. PROVIDE CHROME-PLATED BRASS TAILPIECE AND BASKET STRAINER.

GENERAL NOTES (APPLICABLE TO ALL FIXTURES):
1) ALL PUBLIC LAVATORIES AND SINKS SHALL BE PROVIDED WITH ANTI-SCALD ASSE 1070 LISTED VALVE ON HOT WATER SUPPLY.
2) FIXTURE CONNECTION SIZES SHOWN IN SCHEDULE ARE CONNECTION SIZE AT FIXTURE ON PLANS.
3) COORDINATE FIXTURE REQUIREMENTS SCHEDULED ABOVE WITH OTHER TRADES. VERIFY CABINET SIZES, COUNTERTOP MATERIALS, WALL THICKNESSES, ETC ARE APPROPRIATE FOR SPECIFIED FIXTURES PRIOR TO ORDERING.

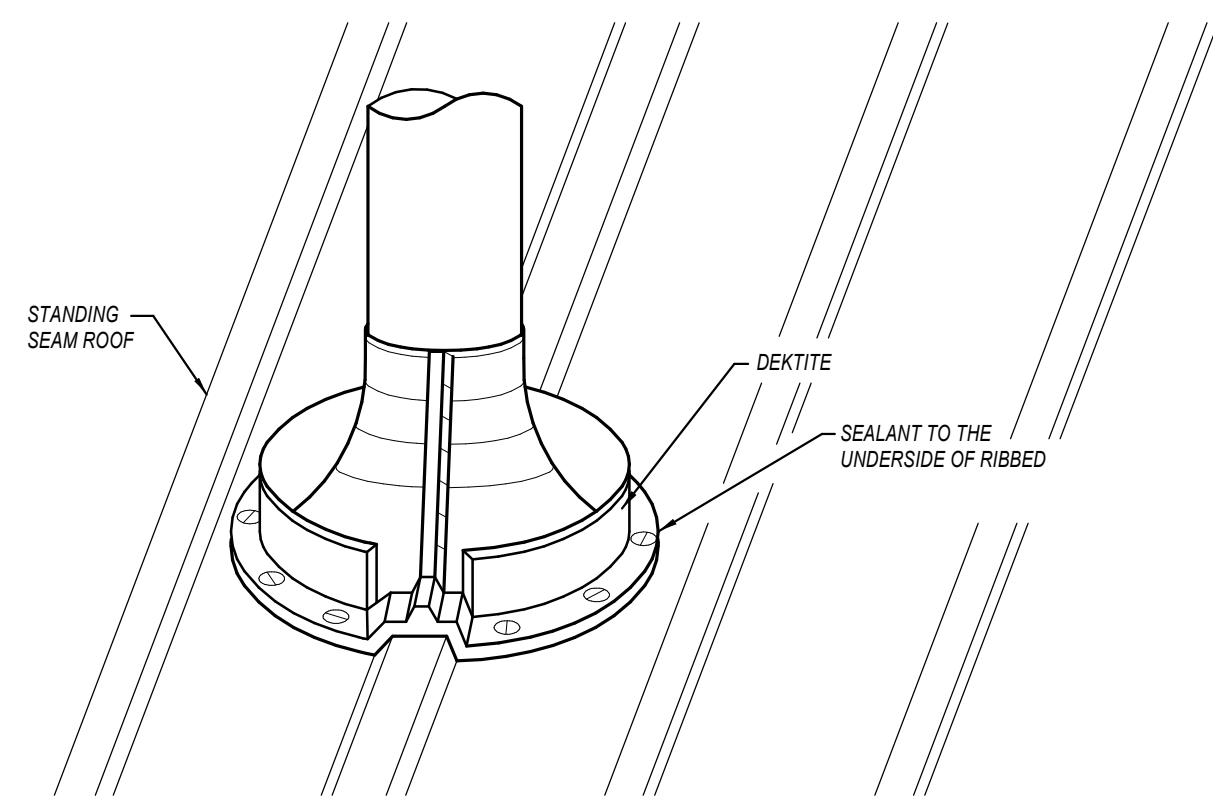
PIPING MATERIAL & INSULATION SCHEDULE

PIPING SYSTEM	SIZE	TYPE/SCHED	MATERIAL	ACCEPTABLE FITTINGS	FIELD TEST PRESSURE/TIME	ALLOWABLE IN PLENUMS	INSULATION	
							TYPE	THICKNESS
DOMESTIC COLD WATER	1/2"-2-1/2"	L	COPPER	SOLDER, PRO-PRESS	150 PSI - 12HR	YES	FIBERGLASS W/ASJ	1/2"
DOMESTIC HOT WATER & HW RETURN	1/2"-1-1/4"	L	COPPER	SOLDER, PRO-PRESS	130 PSI - 12HR	YES	FIBERGLASS W/ASJ	1"
DOMESTIC HOT WATER & HW RETURN	1-1/2"-2-1/2"	L	COPPER	SOLDER, PRO-PRESS	130 PSI - 12HR	YES	FIBERGLASS W/ASJ	1-1/2"
DOM. HOT & COLD BELOW GRADE	1/2"-1-1/4"	K	COPPER	CONTINUOUS TUBING, BRAZED	130 PSI - 12HR	YES	ELASTOMERIC	1" (NOT DRYL)
NATURAL GAS - ABOVE GRADE	2-1/2" & UP	SCH 40	STEEL - SEAMED	WELDED	75 PSI - 1HR	YES	---	---
NATURAL GAS - ABOVE GRADE	1/2"-2"	SCH 40	STEEL - SEAMLESS	THREADED IRON OR WELDED	75 PSI - 1HR	YES	---	---
NATURAL GAS BELOW GRADE	ALL	SDR-11	POLYETHYLENE	FUSION JOINTS	100 PSI - 1HR	NO	---	---
SOL & WASTE ABOVE GRADE	1-1/2"-6"	NO HUB / SERVICE WT.	CAST IRON	NO HUB	10 FT. - 12HR	YES	---	---
SOL & WASTE BELOW GRADE	2"-8"	SCH 40	COPPER	SOLVENT JOINED	10 FT. - 12HR	NO	---	---
DRINKING FOUNT. DRAIN	ALL	---	---	---	---	YES	ELASTOMERIC	1/2"
RFPZ AND SIMILAR EXPOSED DRAIN LINES	ALL	L	COPPER	SOLDER, PRO-PRESS	10 FT. - 12HR	YES	---	---
CONDENSATE DRAIN INTERIOR	1/2"-2"	L	COPPER	SOLDER, PRO-PRESS	10 FT. - 12HR	YES	FIBERGLASS W/ASJ	1/2" (PLENUM ONLY)
COMPRESSED AIR PIPING	1/2"-2-1/2"	L	COPPER	SOLDER, PRO-PRESS	75 PSI - 1HR	YES	---	---
DOM. WATER SERVICE BELOW GRADE	1"-3"	K	COPPER	CONTINUOUS TUBING, BRAZED	130 PSI - 12HR	YES	---	---
DOM. WATER SERVICE BELOW GRADE	1"-3"	DR 9	HDPE	CONTINUOUS TUBING, FUSED	130 PSI - 12HR	NO	---	---

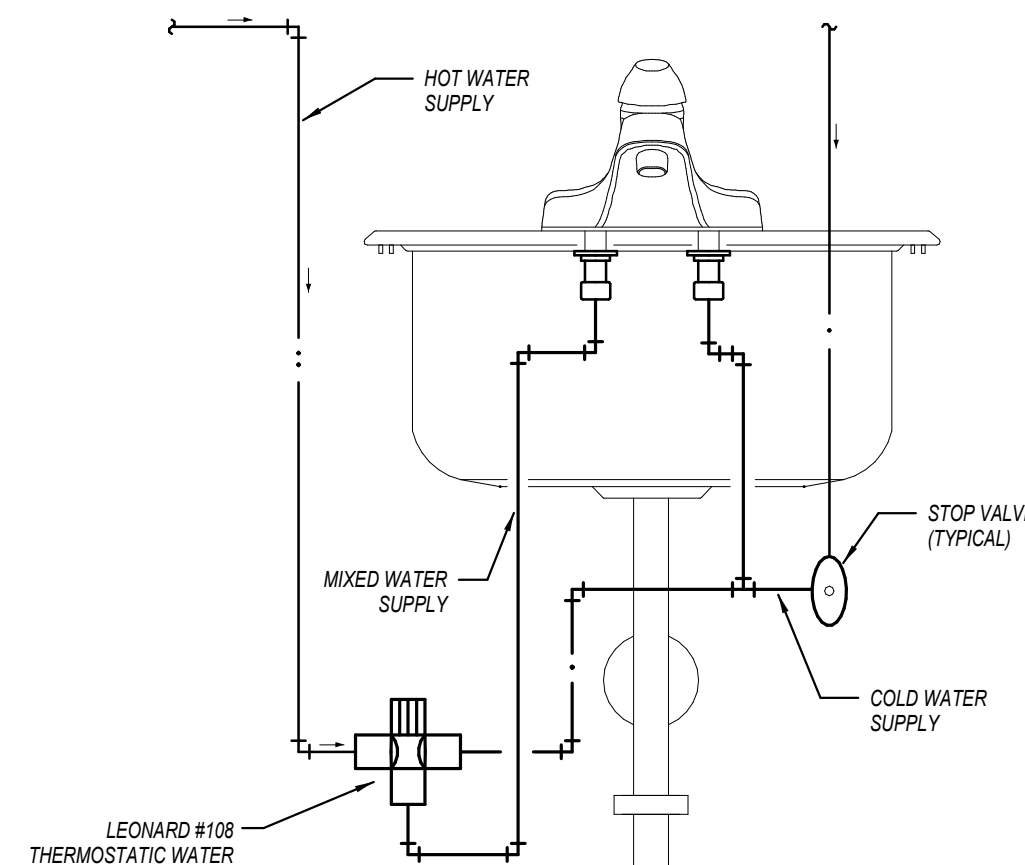
NOTES:
1. ALL PIPING AND MATERIALS IN PLENUMS MUST MEET ASTM E84 FLAME/SMOKE RATING OF 250.
2. ALL INSULATION THICKNESSES SHALL MEET ADOPTED ICC AND ASHRAE 90.1 - 2016 REQUIREMENTS AT A MINIMUM.
3. REFER TO SPECIFICATIONS FOR MORE DETAILED INFORMATION.
4. WELDED PIPING IS REQUIRED FOR GAS PIPING WHEN: A) PIPING IS AT OR OVER 2PSI; B) WHEN PIPING OF ANY PRESSURE IS ROUTED THROUGH CONCEALED SPACES.
5. BELOW GRADE SANITARY EXTERIOR TO THE BUILDING IN JCWW DISTRICT SHALL MEET JCWW STANDARDS FOR MATERIALS, INSTALLATIONS AND JOINING/COUPLING. COORD INSPCTION WITH JCWW PRIOR TO COVERING.



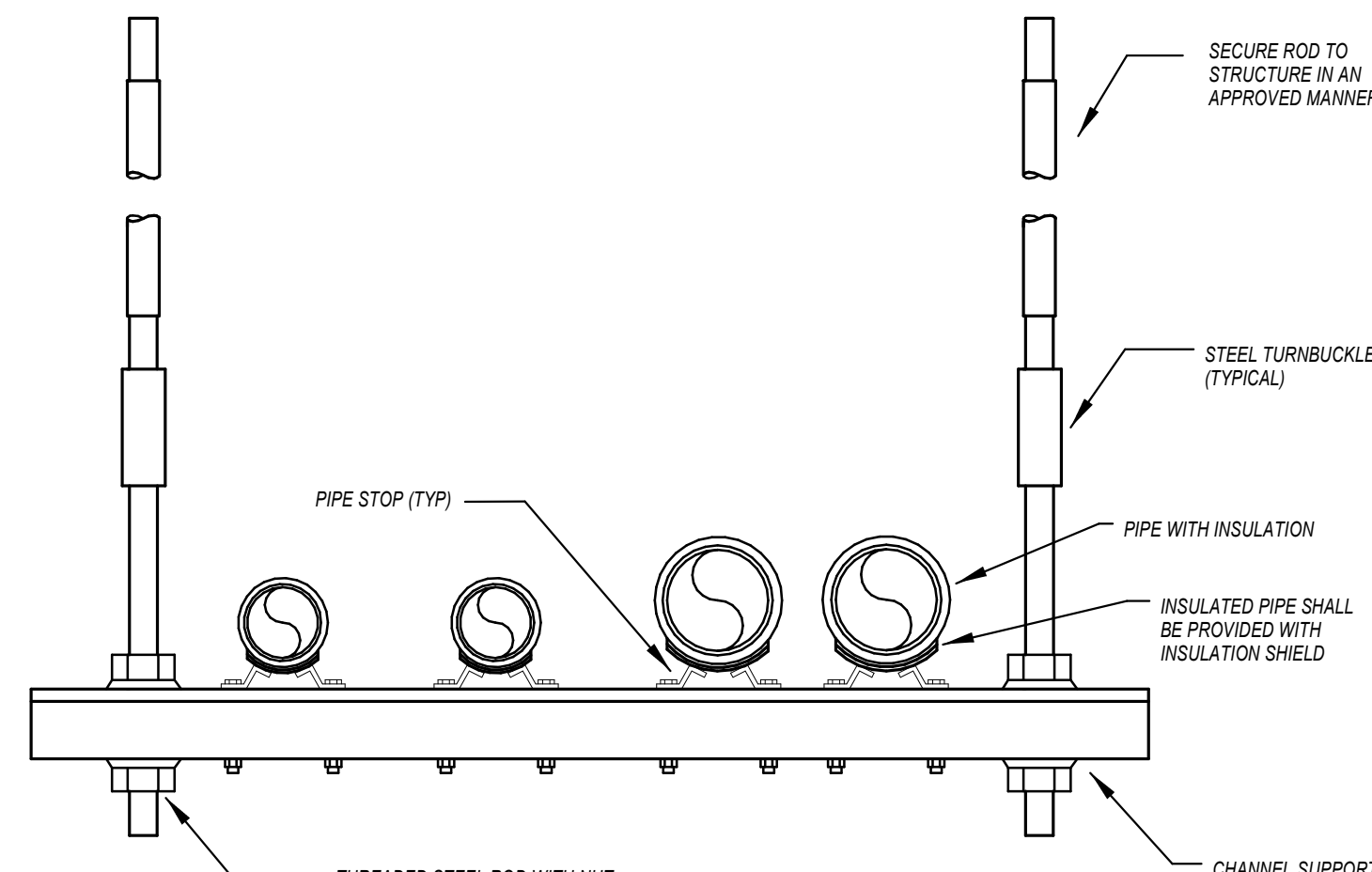
MOP SINK DETAIL
NOT TO SCALE



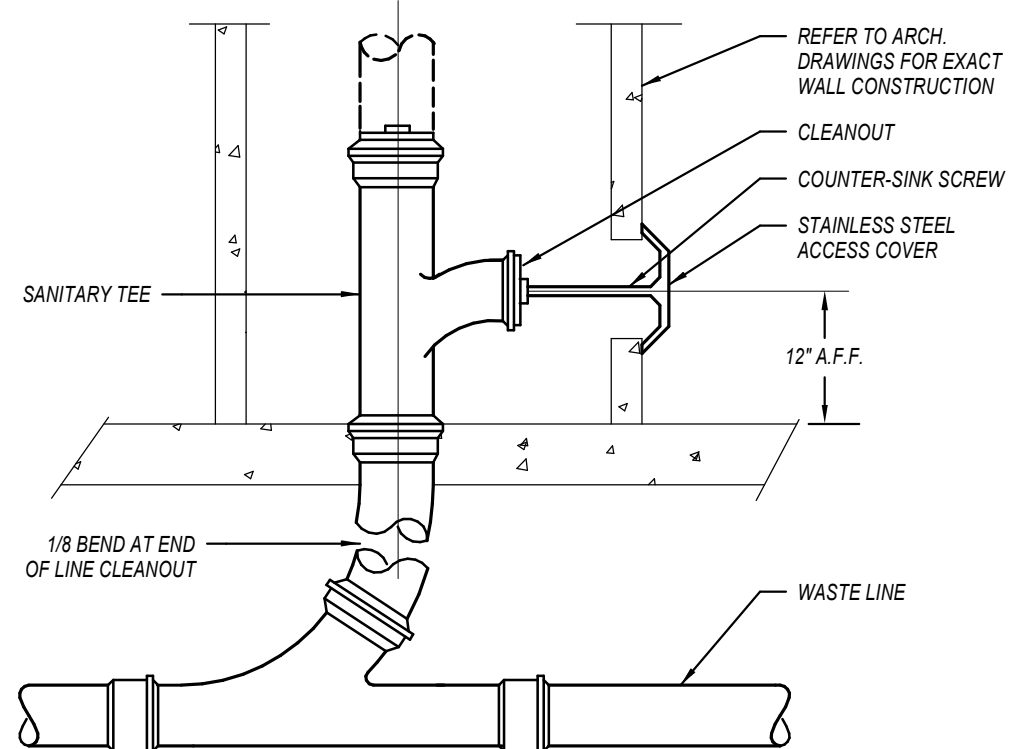
STANDING SEAM ROOF PLUMBING VENT
NOT TO SCALE



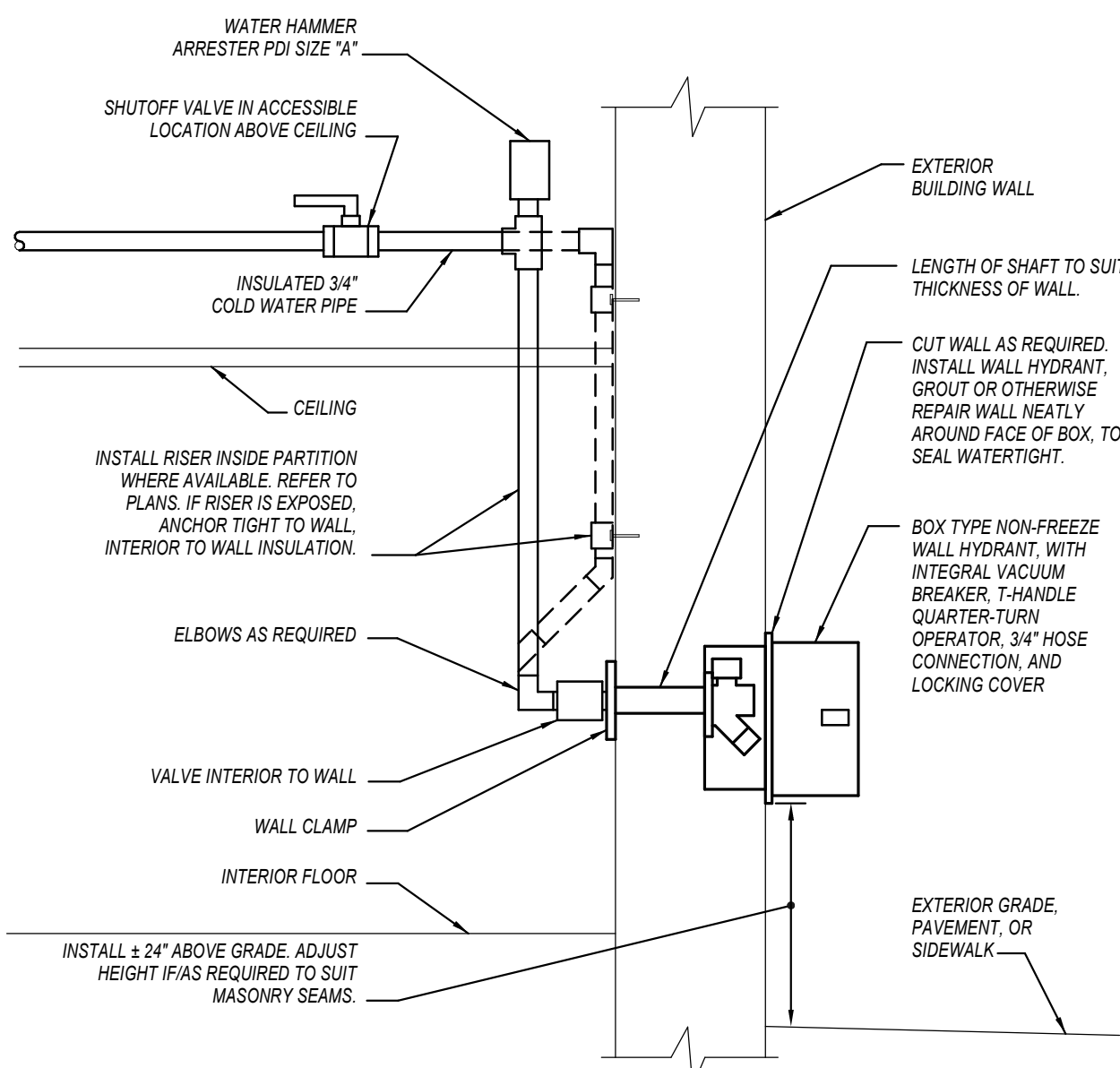
HAND WASHING SINK/LAVATORY TEMPERED WATER SCHEMATIC
NOT TO SCALE



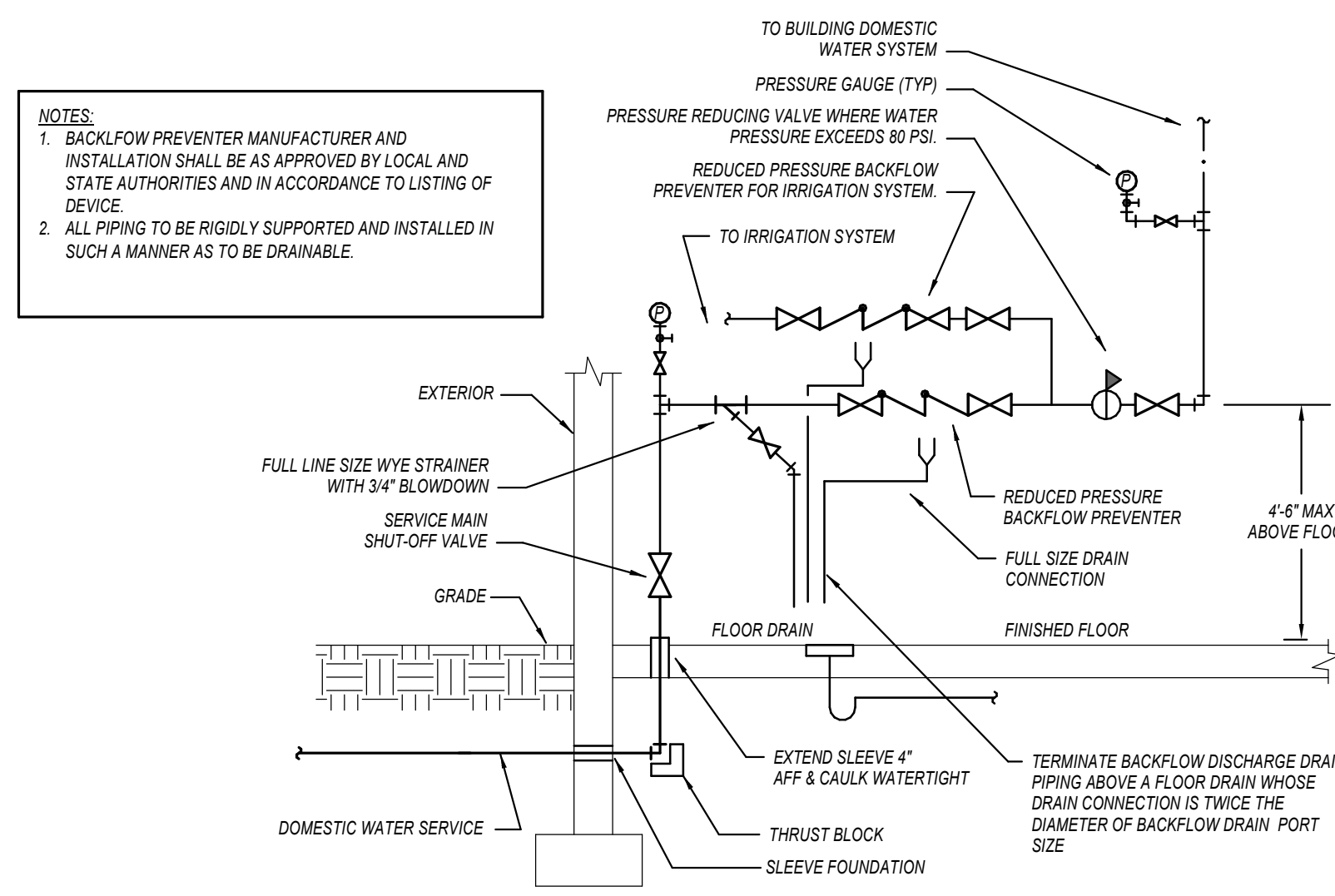
MULTIPLE PIPE TRAPEZE HANGER DETAIL
NOT TO SCALE



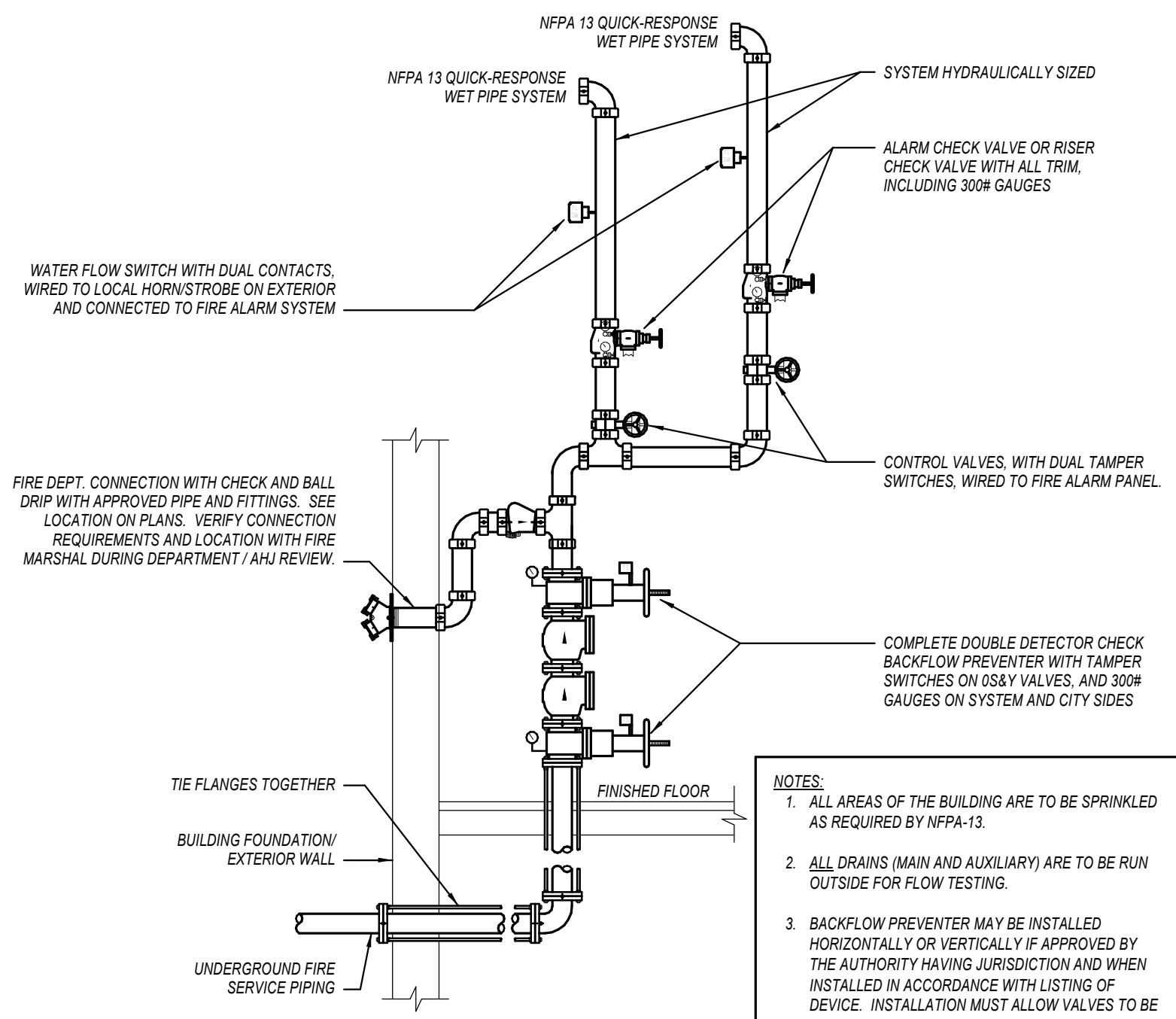
WALL CLEANOUT DETAIL
NOT TO SCALE



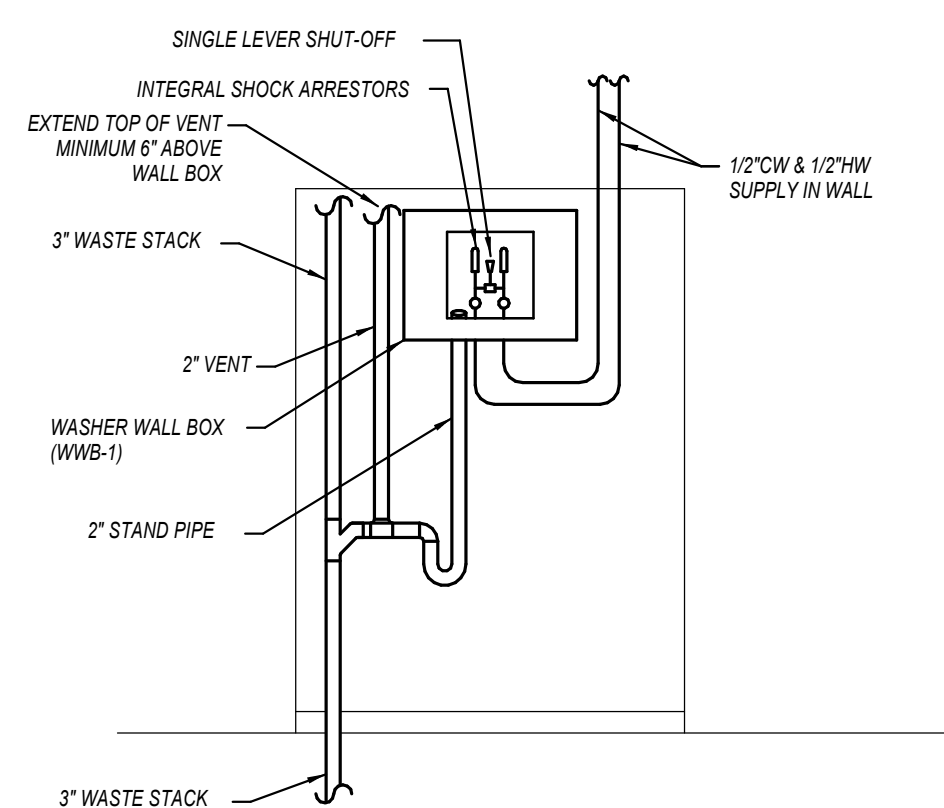
NON-FREEZE WALL HYDRANT DETAIL
NOT TO SCALE



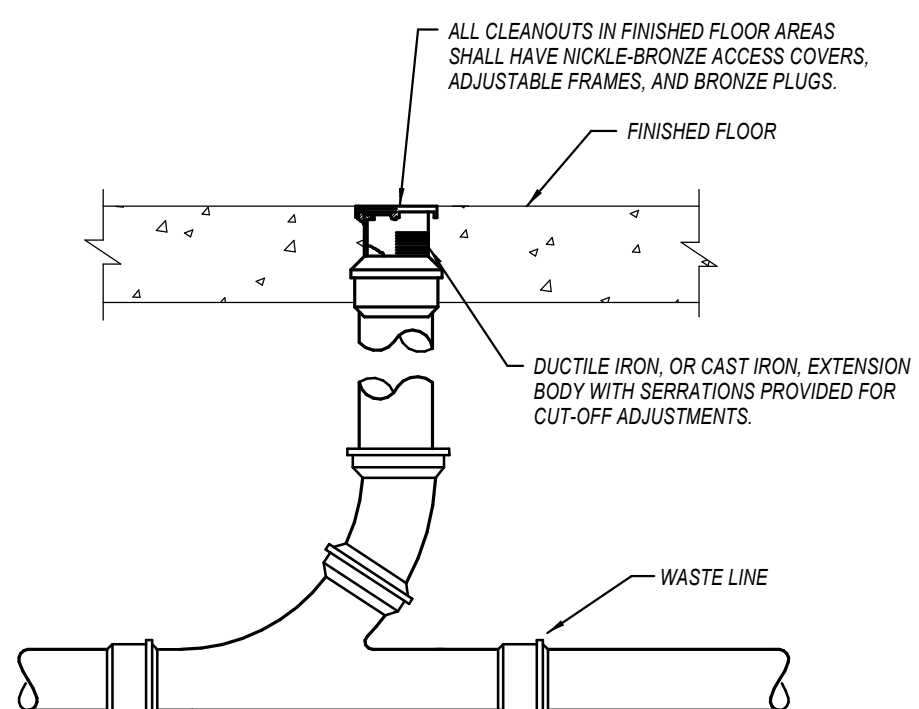
WATER SERVICE W/ IRRIGATION REDUCED PRESSURE BACKFLOW PREVENTER DETAIL
NOT TO SCALE



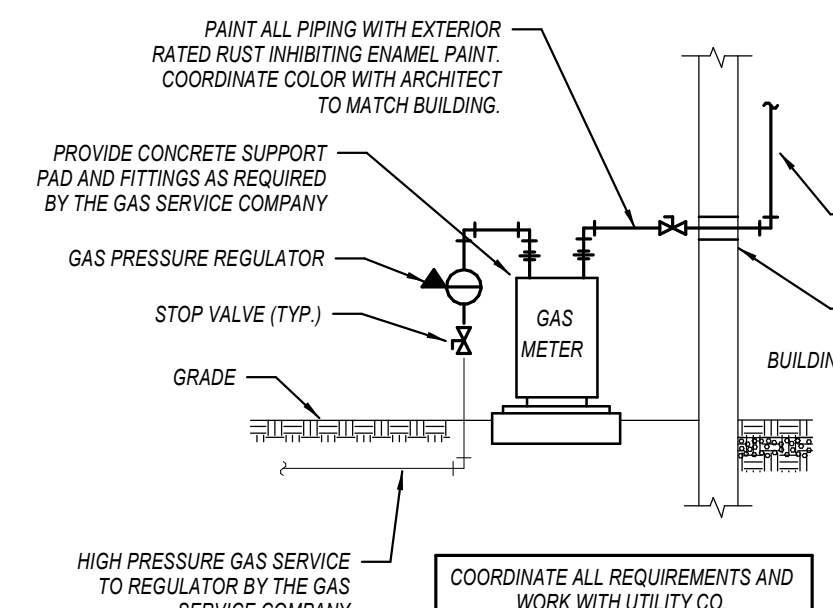
FIRE SPRINKLER RISER DETAIL
NOT TO SCALE



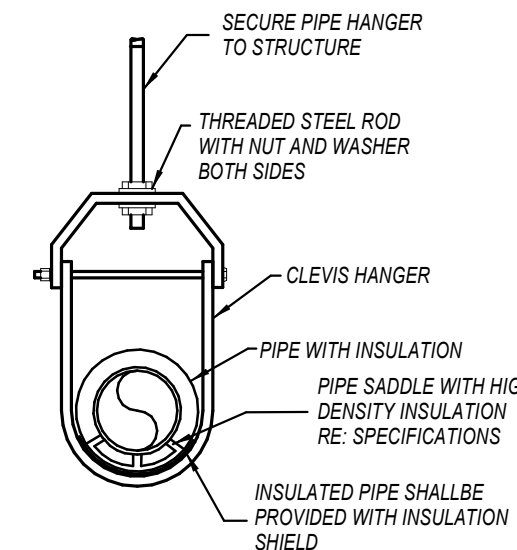
WASHER WALL BOX PIPING DETAIL
NOT TO SCALE



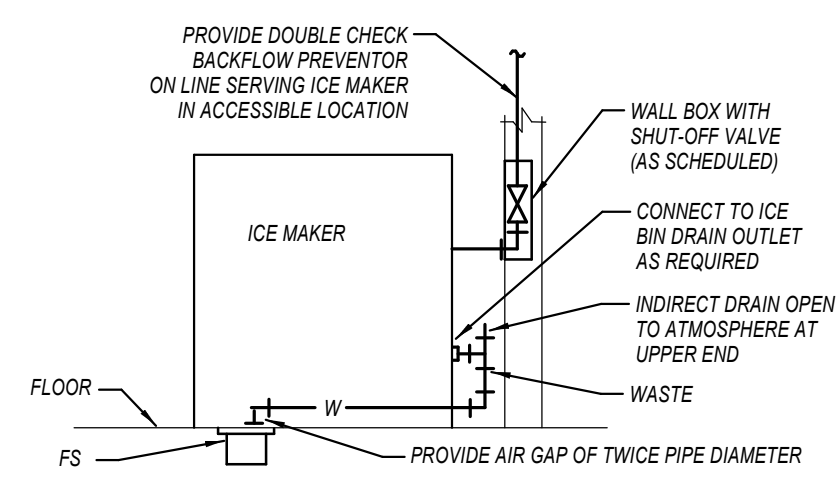
FLOOR CLEANOUT DETAIL
NOT TO SCALE



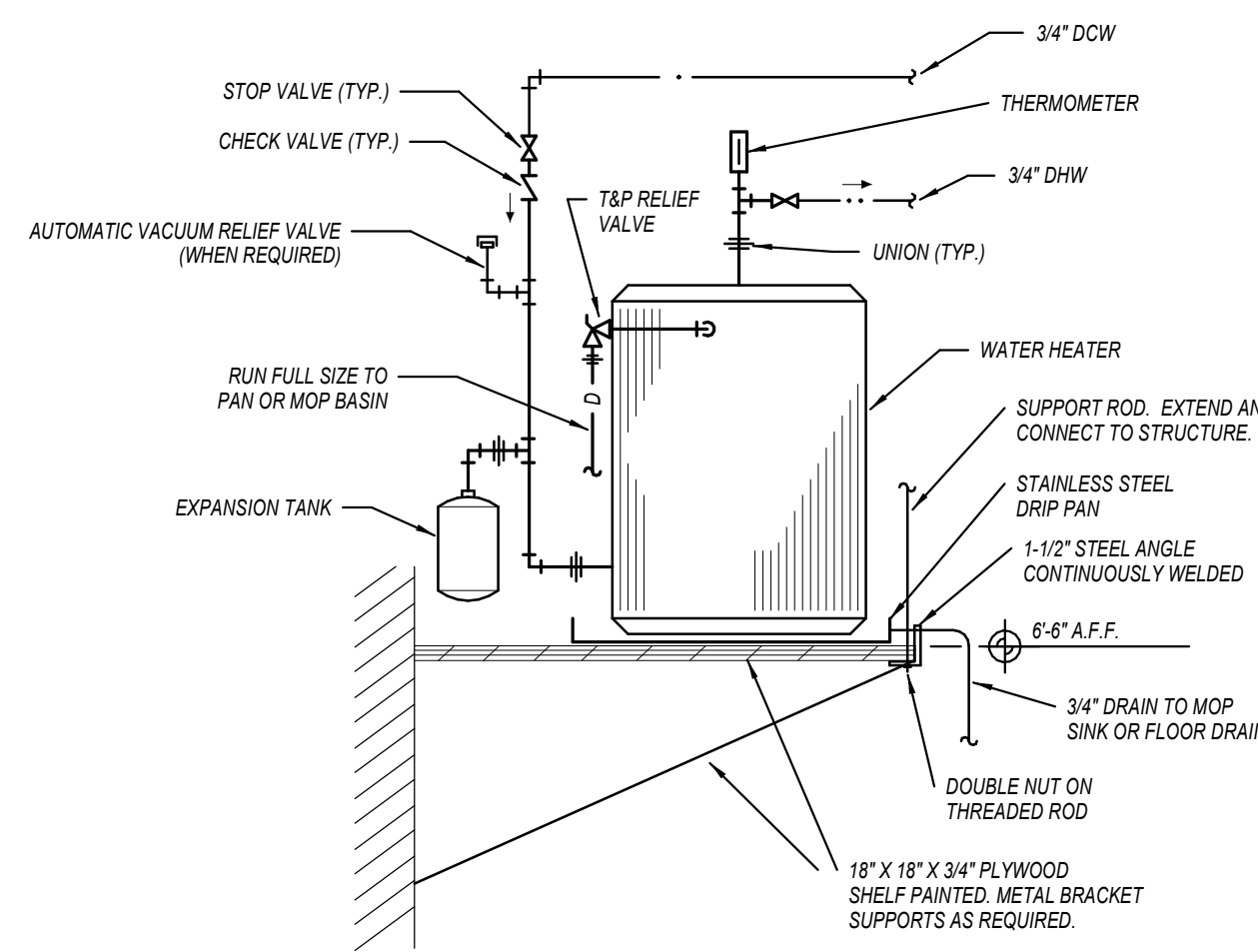
GAS SERVICE DETAIL
NOT TO SCALE



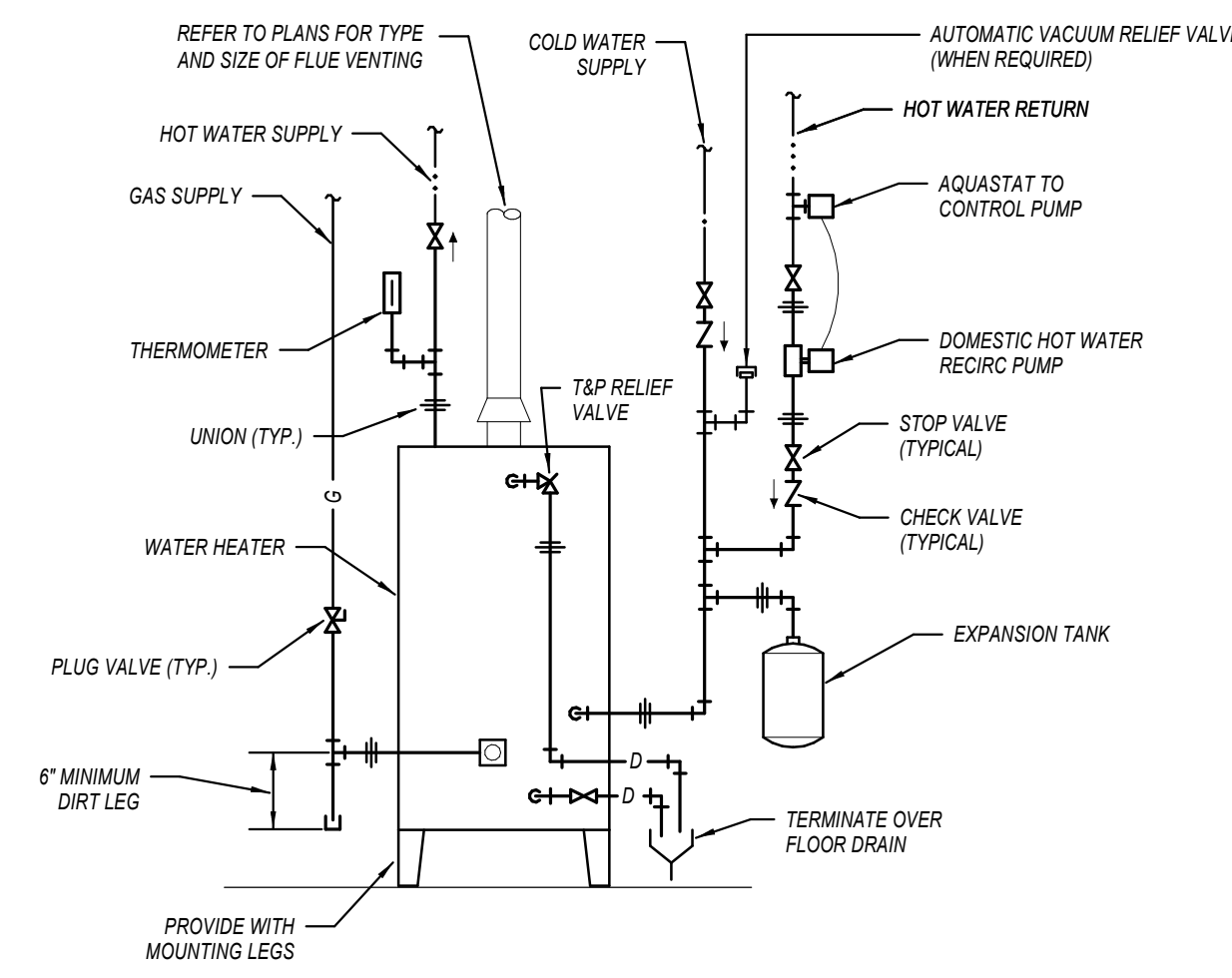
PIPE HANGER DETAIL
NOT TO SCALE



ICE MACHINE CONNECTION DETAIL
NOT TO SCALE



WATER HEATER ON SHELF DETAIL
NOT TO SCALE



GAS WATER HEATER DETAIL
NOT TO SCALE



Kansas Certificate of Authority #A-516
Civil Engineer
Kaw Valley Engineering
KS Certificate of Authority #29241
1627 Sunflower Lane
Salina, KS 67401
785-823-3400
Structural Engineer
Bob D. Campbell & Co.
KS Certificate of Authority #000442
4338 Bellview
Kansas City, MO 64111
816-778-7149
MEP Engineer
PKMR Engineers, Inc.
KS Certificate of Authority #E-1682
13300 W. 98th St.
Lenexa, KS 66215
913-492-2400

JOB NUMBER 22003

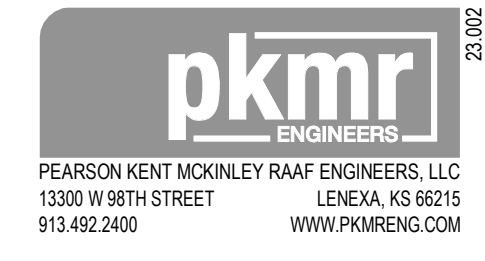
SALINA FIRE STATION #4
EAST CRAWFORD STREET
& MARKLEY ROAD
SALINA, KS 67401
CITY OF SALINA
755 Minnesota Ave., Suite 662 Kansas City, Kansas 66101 Tel. 816.300.4102 Fax 816.300.4102



BID SET DOCUMENTS
ISSUE DATE 09/09/2024
No. Description Date

WSKF, Inc. © 2024

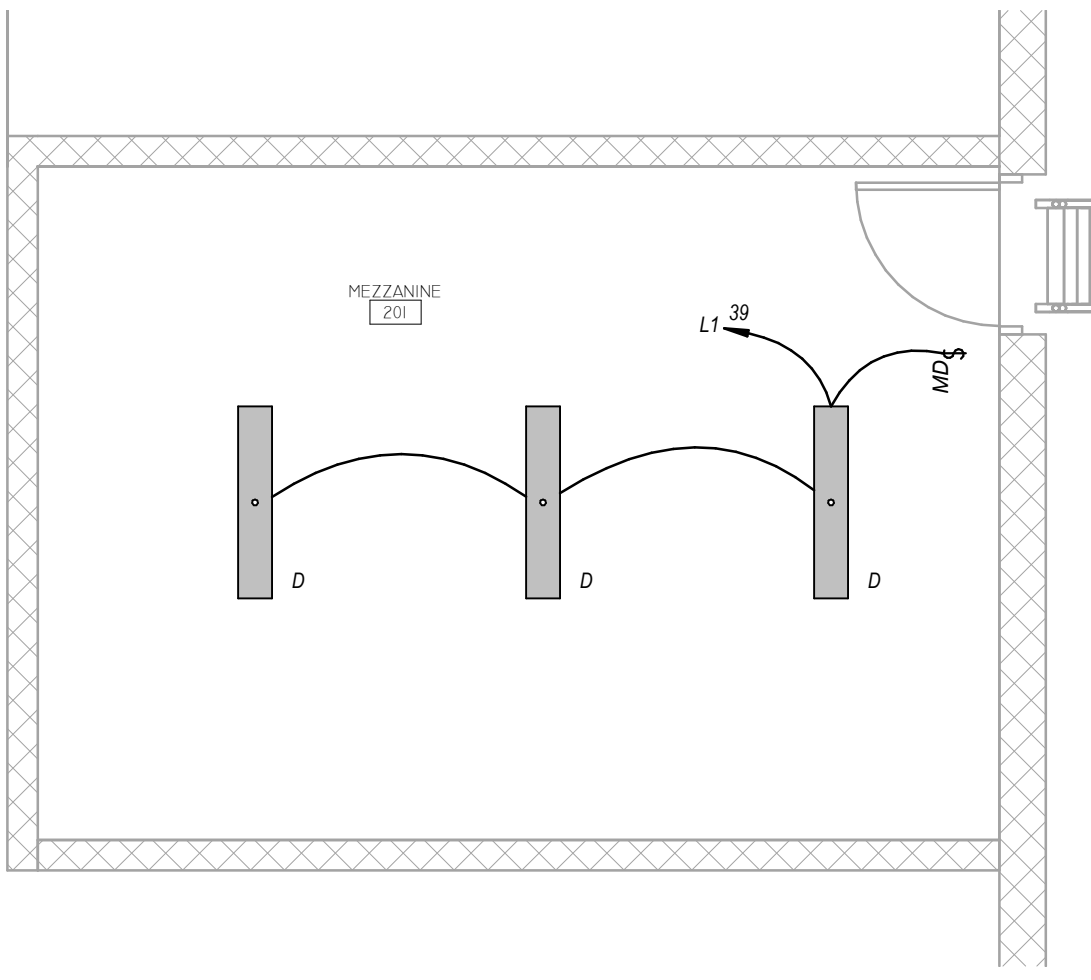
PLUMBING DETAILS
P5.01



PEARSON KENT MCKINLEY RAFF ENGINEERS, LLC
13300 W 98TH STREET
LENEXA, KS 66215
913.492.2400
WWW.PKMRENG.COM

LIGHTING CONTROLS

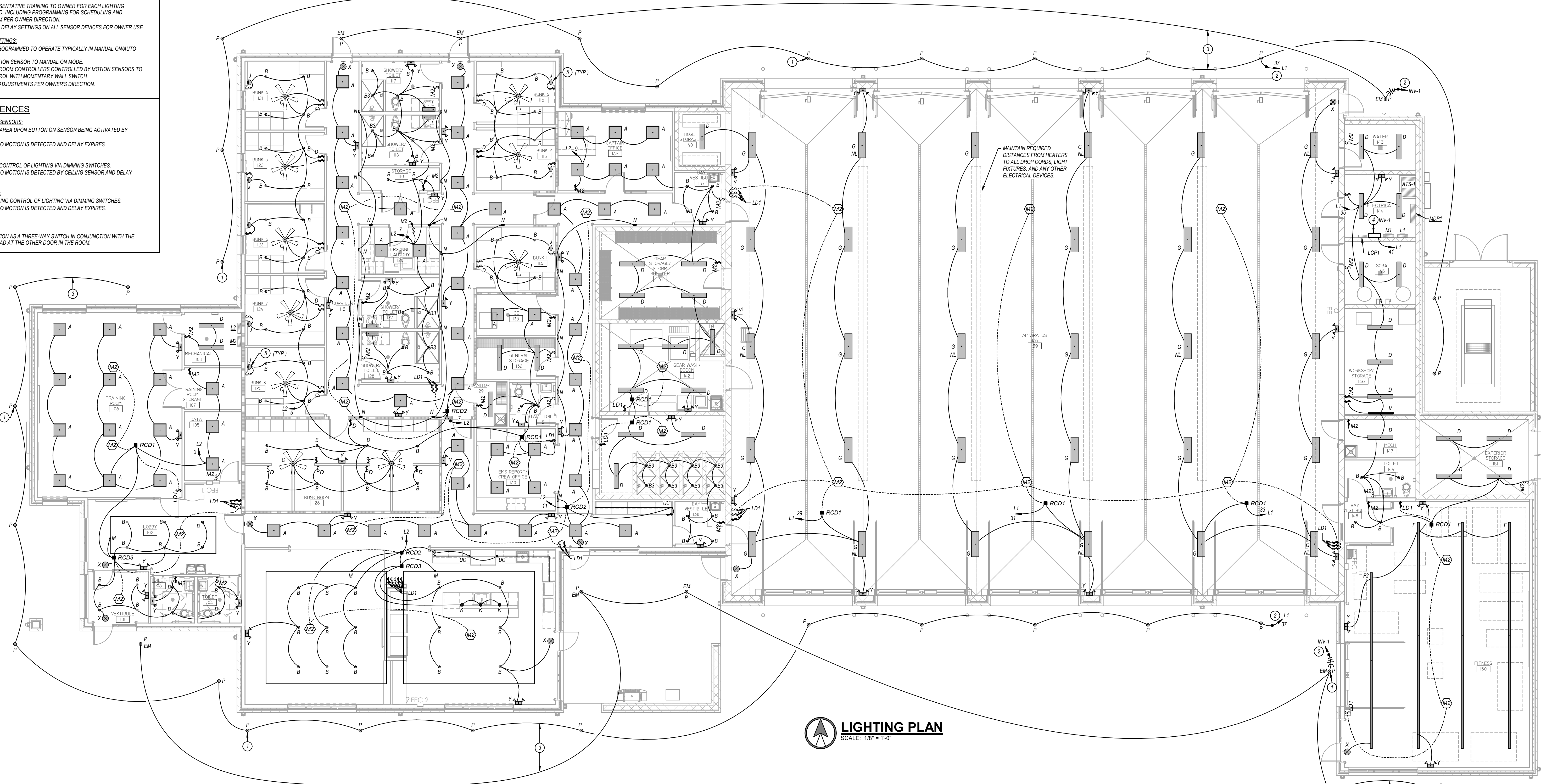
SYMBOLS	
	WALL SWITCH MOTION SENSOR (M2) - PASSIVE INFRARED AND ULTRASONIC 120V/7Y, DECORA STYLE SENSOR, (WATSTOPPER DSM-100, OR EQUAL)
	WALL SWITCH MOTION SENSOR (M2D) - DIMMING - PASSIVE INFRARED AND ULTRASONIC 0-10V DIMMING, 120V/7Y, DECORA STYLE SENSOR (WATSTOPPER DM311, OR EQUAL)
	ROOM CONTROLLER (R) - PUSHBUTTON SWITCHES - PUSHBUTTON SWITCHES WITH LED PILOT LIGHT, SINGLE GANG IN DECORA STYLE FACEPLATE WITH UP TO EIGHT (8) CONTROLS. # REFERS TO QUANTITY OF SWITCHES ON FACE. (WATSTOPPER LHM-100, OR EQUAL)
	ROOM CONTROLLER LOW VOLTAGE DIMMING SWITCHES - PUSHBUTTON SWITCHES WITH LED INDICATING LIGHTS, SINGLE GANG IN DECORA STYLE FACEPLATE. (WATSTOPPER LHM-100)
	DIGITAL DAYLIGHT SENSOR (M2) - PURE TECHNOLOGY - PASSIVE INFRARED AND ULTRASONIC, DIGITAL, CEILING SENSOR, (WATSTOPPER LMC-100, OR EQUAL)
	DIGITAL DAYLIGHT SENSOR (M2D) - PURE TECHNOLOGY - PASSIVE INFRARED AND ULTRASONIC, DIGITAL, CEILING SENSOR, (WATSTOPPER LMC-100, OR EQUAL)
	ROOM CONTROLLER (R) - DIGITAL ON/OFF ROOM CONTROLLER 120V/7Y INPUT # INDICATES NUMBER OF RELAYS (STD 1-3, UNITS SHALL BE GANGED FOR MORE THAN 3 RELAYS/ZONES) (WATSTOPPER LARC-100 SERIES, OR EQUAL)
	ROOM CONTROLLER (LD) - DIGITAL ON/OFF ROOM CONTROLLER 120V/7Y INPUT # INDICATES NUMBER OF RELAYS (STD 1-3, UNITS SHALL BE GANGED FOR MORE THAN 3 RELAYS/ZONES) (WATSTOPPER LARC-100 SERIES, OR EQUAL)
	ASTRONOMICAL TIME CLOCK - DIGITAL ON/OFF CONTROLLER - PROGRAMMABLE FOR ASTRONOMICAL AND SCHEDULED CONTROL, 120V INPUT, (WATSTOPPER RT-200 OR EQUAL)
	DM OR LOW VOLTAGE CABLES - DIGITAL SYSTEMS SHALL UTILIZE PLENUM RATED DATA WIRING OR CABLEING PROVIDED BY MANUFACTURER SPECIFICALLY FOR CONTROL SYSTEM. LOW VOLTAGE SYSTEMS SHALL UTILIZE CABLEING PER MANUFACTURER REQUIREMENTS. CABLEING MAY NOT BE INDICATED WHERE ROOM SYSTEM ARCHITECTURE IS SIMPLE FOR CLARITY.
	LIGHTING CONTROL PANEL - PROVIDE LIGHTING CONTROL PANEL FOR EXTERIOR LIGHTING LOADS. PANEL SHALL CONSIST OF RELAY CONTACTOR PANEL, PHOTOCELL, INTERNAL TIMECLOCK, AND OTHER CONTROLLING DEVICES. WATSTOPPER LPS-FRAME PANEL OR APPROVED EQUAL IN SURFACE MOUNTED ENCLOSURE. PANEL SHALL BE CAPABLE OF SCHEDULED ON/OFF CONTROL WITH OVERRIDE CAPABILITY. REFER TO CONTROL PANEL SCHEDULE FOR ADDITIONAL INFORMATION.
	LIGHTING CONTROL PANEL - PROVIDE LIGHTING CONTROL PANEL FOR MAIN AREA LOADS. PANEL SHALL CONSIST OF RELAY CONTACTOR PANELS, CONTROL SWITCHES, PHOTOCELLS AND OTHER CONTROLLING DEVICES. WATSTOPPER LMC-100 OR APPROVED EQUAL IN 1" SERIES SURFACE MOUNTED ENCLOSURE. PANEL SHALL BE CAPABLE OF SCHEDULED ON/OFF CONTROL WITH AFTER HOUR OVERRIDE CAPABILITY AND SWITTOFF. REFER TO CONTROL PANEL SCHEDULE FOR ADDITIONAL INFORMATION. COORDINATE SCHEDULING OF EACH CONTROL ZONE WITH OWNER.



LIGHTING ENLARGED PLANS
SCALE: 1/4" = 1'-0"

TRAINING AND PROGRAMMING

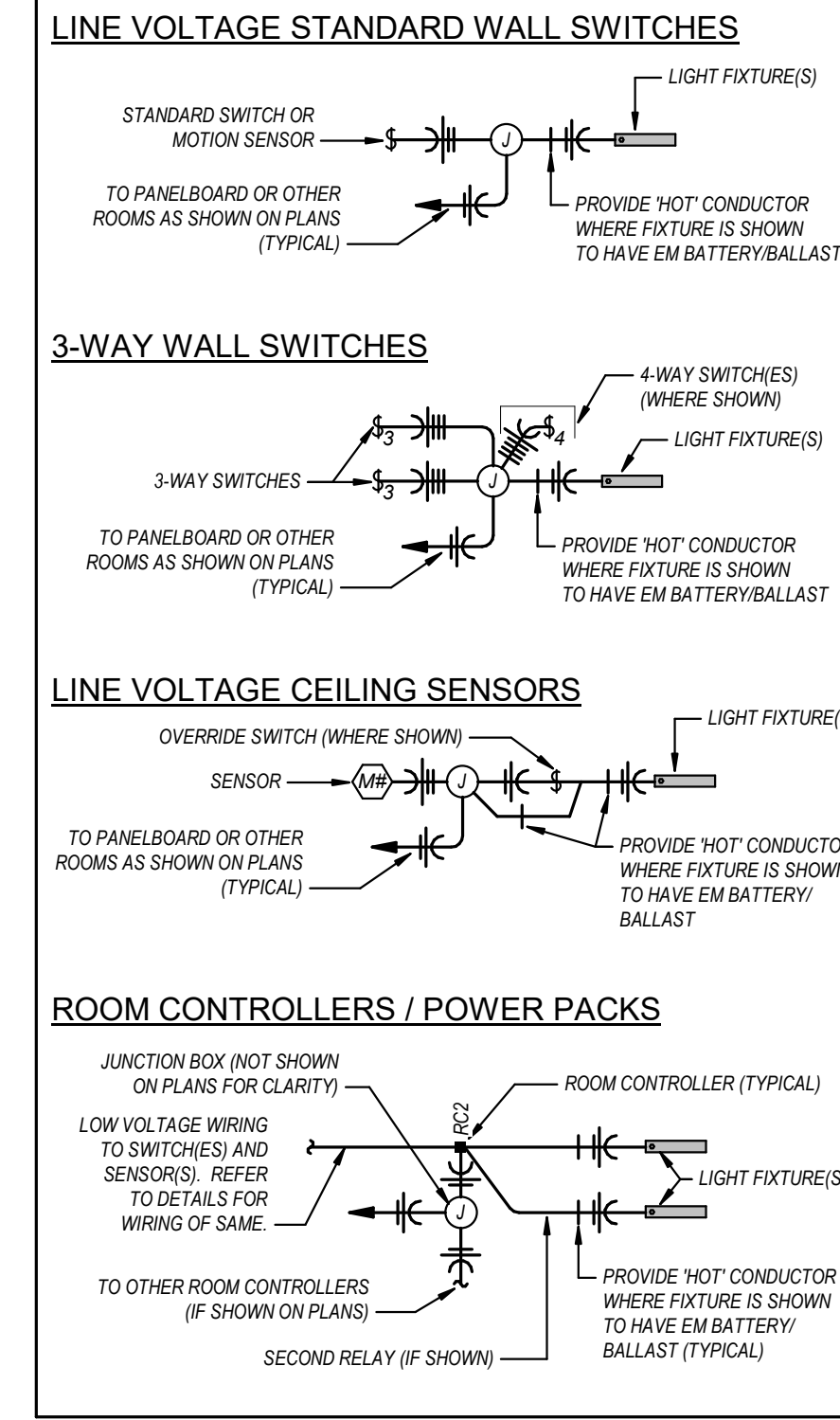
- OWNER TRAINING:**
- PROVIDE FACTORY REPRESENTATIVE TRAINING TO OWNER FOR EACH LIGHTING CONTROL SYSTEM UTILIZED, INCLUDING PROGRAMMING FOR SCHEDULING AND OPERATION OF EACH ROOM PER OWNER DIRECTION.
 - PROVIDE RECORD OF THE DELAY SETTINGS ON ALL SENSOR DEVICES FOR OWNER USE.
- SENSOR ADJUSTMENTS AND SETTINGS:**
- SYSTEMS SHALL BE SET/PROGRAMMED TO OPERATE TYPICALLY IN MANUAL ON/AUTO OFF MODE.
 - SET WALL MOUNTED MOTION SENSOR TO MANUAL ON MODE.
 - SET POWER PACKS AND ROOM CONTROLLERS CONTROLLED BY MOTION SENSORS TO MANUAL ON AND CONTROL WITH MOMENTARY WALL SWITCH.
 - PROVIDE FINAL SETTINGS/ADJUSTMENTS PER OWNER'S DIRECTION.
- CONTROLS SEQUENCES**
- WALL MOUNTED LINE VOLTAGE SENSORS:**
- TURN ON LIGHTS IN ROOMS UPON BUTTON ON SENSOR BEING ACTIVATED BY OCCUPANT.
 - TURN OFF LIGHTS AFTER NO MOTION IS DETECTED AND DELAY EXPIRES.
- OPEN OFFICE AREA:**
- MANUAL ON AND DIMMING CONTROL OF LIGHTING VIA DIMMING SWITCHES.
 - TURN OFF LIGHTS AFTER NO MOTION IS DETECTED BY CEILING SENSOR AND DELAY EXPIRES.
- TRAINING/CONFERENCE ROOMS:**
- MANUAL ON/OFF AND DIMMING CONTROL OF LIGHTING VIA DIMMING SWITCHES.
 - TURN OFF LIGHTS AFTER NO MOTION IS DETECTED AND DELAY EXPIRES.
 - SWITCHES AT EACH DOOR:
 - 2X4 TRIPPER
 - CAN LIGHTS
 - EACH SWITCH IS TO FUNCTION AS A THREE-WAY SWITCH IN CONJUNCTION WITH THE SWITCH SERVING SAME LOAD AT THE OTHER DOOR IN THE ROOM.



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

TYPICAL WIRING OF CONTROLS AND LIGHT FIXTURES

THE WIRING AND/OR TIC MARKS SHOWN BELOW ARE NOT SHOWN ON THE PLANS FOR CLARITY. PROVIDE WIRING FROM JUNCTION BOX(ES) TO SWITCHES/CONTROLLERS AND LIGHT FIXTURES AS SHOWN BELOW FOR EACH ROOM/AREA.



GENERAL LIGHTING NOTES

- REFER TO GENERAL NOTES ON MEP COVER SHEET FOR ADDITIONAL REQUIREMENTS OF WORK.
- LIGHT FIXTURES INDICATED AS EMERGENCY FIXTURES ARE TO FUNCTION AS NIGHT LIGHTS UNLESS SPECIFICALLY SHOWN SWITCHED.

KEYED NOTES - LIGHTING

- INSTALL IN SOFFIT, TYPICAL.
- ROUTE EXTERIOR LIGHTING THROUGH LIGHTING CONTROL PANEL L1, THEN HOMERUN, PROVIDE UNSWITCHED HOT IF SHOWN.
- ROUTE CONCEALED IN BUILDING, TYPICAL.
- ICFA ENGINEERING INTERFERIBLE WIRETRAY IS 375-LED OR EQUAL FOR OPERATION OF EXTERIOR EMERGENCY EGRESS LIGHTING. INSTALL IN ACCESSIBLE LOCATION ON INTERIOR OF BUILDING PER MANUFACTURER'S DIRECTIONS.
- READING LIGHT LOCATED IN HEADBOARD CONSTRUCTION COORDINATE WITH ARCHITECTURAL ELEVATIONS FOR EXACT LOCATIONS.



Kansas Certificate of Authority #A-516
Civil Engineer
Kaw Valley Engineering
KS Certificate of Authority #29241
1627 Sunflower Lane
Salina, KS 67401
785-823-3400

Structural Engineer
Bob D. Campbell & Co.
KS Certificate of Authority #000442
4338 Bellview
Kansas City, MO 64111
816-778-7149

MEP Engineer
PKMR Engineers, Inc.
KS Certificate of Authority #E-1682
13300 W. 98th St.
Lenexa, KS 66215
913-492-2400

JOB NUMBER 22003

SALINA FIRE STATION #4

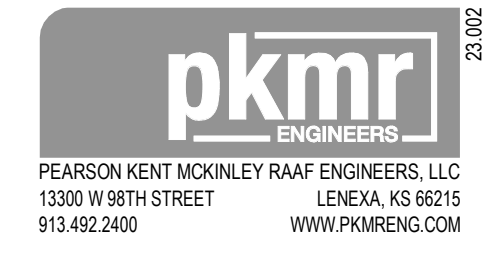
EAST CRAWFORD STREET & MARKLEY ROAD
SALINA, KS 67401
CITY OF SALINA



BID SET DOCUMENTS
ISSUE DATE 09/09/2024
No. Description Date

WSKF, Inc. © 2024

LIGHTING PLAN
E1.01



PEARSON KENT MCKINLEY RAFF ENGINEERS, LLC
13300 W. 98TH STREET
LENEXA, KS 66215
913.492.2400
WWW.PKMRINC.COM



Kansas Certificate of Authority #A-516

Civil Engineer
Kaw Valley Engineering
KS Certificate of Authority #29241
1627 Sunflower Lane
Salina, KS 67401
785-823-3400

Structural Engineer
Bob D. Campbell & Co.
KS Certificate of Authority
#000442
4338 Bellview
Kansas City, MO 64111
816-778-7149

M/E/P Engineer
PKMR Engineers, Inc.
KS Certificate of Authority
#E-1682
13300 W. 98th St.
Lenexa, KS 66215
913-492-2400

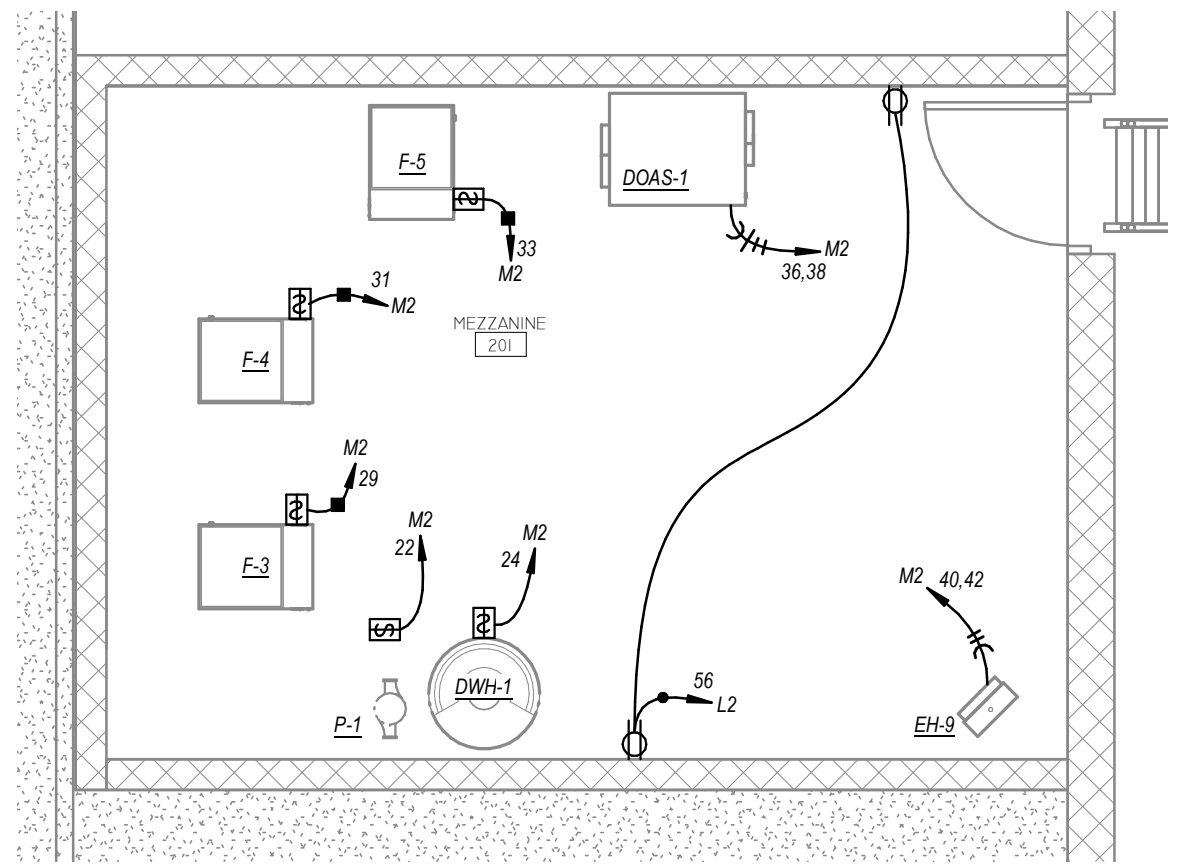
JOB NUMBER 22003

GENERAL POWER NOTES

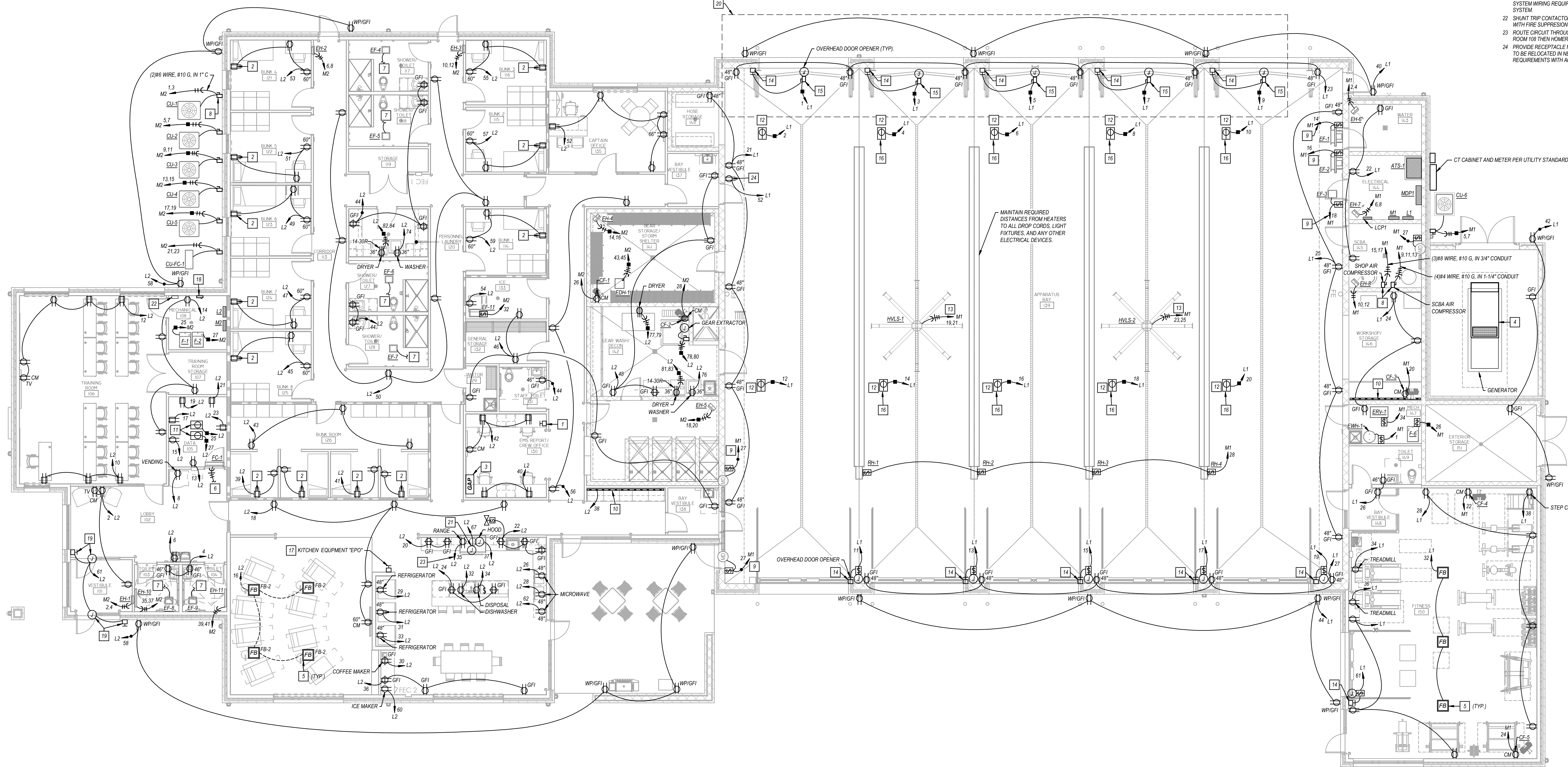
1. REFER TO GENERAL NOTES ON MEP COVER SHEET FOR ADDITIONAL REQUIREMENTS OF WORK.
2. COORDINATE EXACT NEMA CONFIGURATIONS OF RECEPTABLES SERVING EQUIPMENT WITH EXACT EQUIPMENT BEING FURNISHED.
3. EXACT MECHANICAL EQUIPMENT LOCATIONS MAY NOT BE SHOWN FOR CLARITY. COORDINATE EXACT LOCATIONS OF ALL MECHANICAL EQUIPMENT, DUCT DETECTORS, ETC. WITH MECHANICAL DRAWINGS AND CONTRACTOR.
4. COORDINATE EXACT LOCATIONS OF SMOKE DETECTORS WITH CEILING FANS, HVAC DIFFUSERS, SPRINKLER HEADS, ETC. PER NFPA REQUIREMENTS.

KEYED NOTES - POWER

1. BANK OF EIGHT (8) GARAGE DOOR OPERATOR CONTROLLER OPEN/LOSE BUTTONS. COORDINATE ROUGH IN AND LOCATIONS WITH DOOR CONTRACTOR VENDOR.
2. QUAD RECEPTABLE WITH GFI CHARGING PORTS.
3. GENERATOR ANNUNCIATOR PANEL. RECESS MOUNT AT 54" A.F.F. TO BOTTOM OF BOX. COORDINATE WITH OTHER DEVELOPMENT THIS AREA.
4. REFER TO RISER DIAGRAM AND SITE PLAN. INSTALL MINIMUM 5FT FROM THE BUILDING AND 3FT FROM ANY SCREEN WALL. COORDINATE WITH ARCHITECT AND SCREEN WALL CONSTRUCTION WITH ARCHITECT AND CONTRACTOR.
5. EXACT LOCATION TO BE DETERMINED IN THE FIELD (TYPICAL).
6. INDOOR FAN COOL UNIT IS POWERED THROUGH OUTDOOR CONDENSING UNIT CLAUET.
7. INTERLOCK EXHAUST FAN TO LIGHTING CIRCUIT IN ROOM.
8. 8MA, 800V, NON-FUSED, HEAVY-DUTY DISCONNECT SWITCH IN NEMA 3R ENCLOSURE.
9. ROUTE THROUGH CARBON MONOXIDE DETECTOR/CO AND N10 DUAL DETECTION SYSTEM CONTROLLER, THEN HOMERUN.
10. FLUORESCENT LOCATED ABOVE COUNTERTOP. COORDINATE EXACT LOCATION WITH ARCHITECT.
11. CEILING MOUNT NEMA L5-30R RECEPTABLES. COORDINATE EXACT LOCATION WITH DATA RACK LOCATIONS.
12. PROVIDE CORD REEL MOUNTED AT CEILING FOR TRUCK POWER. WOODWARD INDUSTRIAL DUTY CABLE REEL OR EQUAL. PROVIDE 30 FEET OF CABLE WITH STANDARD NEMA 30 AMP RECEPTABLE. #10 AWG WIRE. #10 GROUND. VERIFY EXACT LOCATION AND RECEPTABLE TYPE WITH OWNER.
13. ROUTE THROUGH FAN CONTROLLER, THEN HOMERUN.
14. POWER FOR DOOR OPERATOR. PROVIDE ALL REQUIRED POWER AND CONTROL WIRING AND ASSOCIATED CONDUIT FOR ACCESSORIES INCLUDING PHOTOELECTRIC EMITTERS AND RECEIVER FOR A COMPLETE SYSTEM. VERIFY DOOR OPERATOR SYSTEM REQUIREMENTS WITH MANUFACTURER PRIOR TO INSTALLATION.
15. 200V, 2 POLE, FUSED, HEAVY-DUTY DISCONNECT SWITCH IN NEMA 4 ENCLOSURE PER MANUFACTURER'S RECOMMENDATIONS. FUSE DISCONNECT WITH SINGLE POLE, 120V, 20A FUSE. COORDINATE EXACT FUSE SIZE AND REQUIREMENTS WITH EQUIPMENT MANUFACTURER.
16. FOR ALL DROP CORDS/CORD REELS INSTALLED ADJACENT TO THE TUBE HEATERS. PROVIDE TECHSPEC DRAGON SLEEVE (DSV) FOR THE FIRST 10' OF CORD BELOW THE BALL STOP AND LOCATE SO THE CORD DROP MEETS THE MINIMUM CLEARANCE REQUIRED BY THE HEATER MANUFACTURER WHILE THE PULG IS CONNECTED TO THE VEHICLE. COORDINATE WITH OWNER AND MECHANICAL CONTRACTOR PRIOR TO INSTALLATION OF HEATERS AND CORD REELS.
17. EMERGENCY POWER OFF SWITCH FOR KITCHEN EQUIPMENT. 120V, 15A, 2-POLE, 2-POSITION SWITCH WITH GFI. COORDINATE WITH OWNER AND MECHANICAL CONTRACTOR PRIOR TO INSTALLATION OF KITCHEN EQUIPMENT. REFER TO DETAIL ON SHEET ES.02 FOR MORE INFORMATION.
18. REMOTE CONTROL SWITCH RCS-1 FOR KITCHEN EQUIPMENT. OFF CONTROL. REFER TO DETAIL ON SHEET ES.02 FOR MORE INFORMATION.
19. MOTORIZED DOOR EQUIPMENT. COORDINATE ALL REQUIREMENTS WITH EQUIPMENT PROVIDER.
20. BASE-60 FOR NORTH WALL OVERHEAD DOORS IS A BIFOLD TYPE DOOR OPERATOR SYSTEM. PROVIDE ALTERNATE PRICING FOR STANDARD JACKSHAFT OVERHEAD DOOR SIMILAR TO SOUTH WALL OVERHEAD DOORS.
21. PROVIDE POWER FOR RANGE HOOD FIRE SUPPRESSION SYSTEM CONTROL UNIT. MOUNT IN CABINET ABOVE RANGE HOOD. COORDINATE EXACT INSTALLATION AND SYSTEM WIRING REQUIREMENTS WITH SUPPLIER/INSTALLER. WIRE TO FIRE ALARM SYSTEM.
22. SHUNT TRIP CONTACTOR FOR EQUIPMENT UNDER KITCHEN HOOD. INTERLOCK WITH FIRE SUPPRESSION SYSTEM INCLUDES WITH HOOD.
23. ROUTE CIRCUIT THROUGH SHUNT TRIP CONTACTOR LOCATED IN MECHANICAL ROOM 108 THEN HOMERUN.
24. PROVIDE RECEPTABLE MOUNTED AT 18" A.F.F. FOR EXISTING STATION DAMAGE TO BE RELOCATED IN NEW BUILDING. COORDINATE EXACT LOCATION AND REQUIREMENTS WITH ARCHITECT/OWNER PRIOR TO INSTALLATION.



POWER ENLARGED PLANS
SCALE: 1/4" = 1'-0"



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

SALINA FIRE STATION #4

EAST CRAWFORD STREET & MARKLEY ROAD
SALINA, KS 67401
CITY OF SALINA



BID SET DOCUMENTS
ISSUE DATE 09/09/2024
No. Description Date

WSKF, Inc. © 2024

POWER PLAN

E2.01



PEARSON KENT MCKINLEY RAFF ENGINEERS, LLC
13300 W. 98th STREET
LENEXA, KS 66215
913.492.2400
WWW.PKMR.COM



Kansas Certificate of Authority #A-516

Civil Engineer
Kaw Valley Engineering
KS Certificate of Authority #29241
1627 Sunflower Lane
Salina, KS 67401
785-823-3400

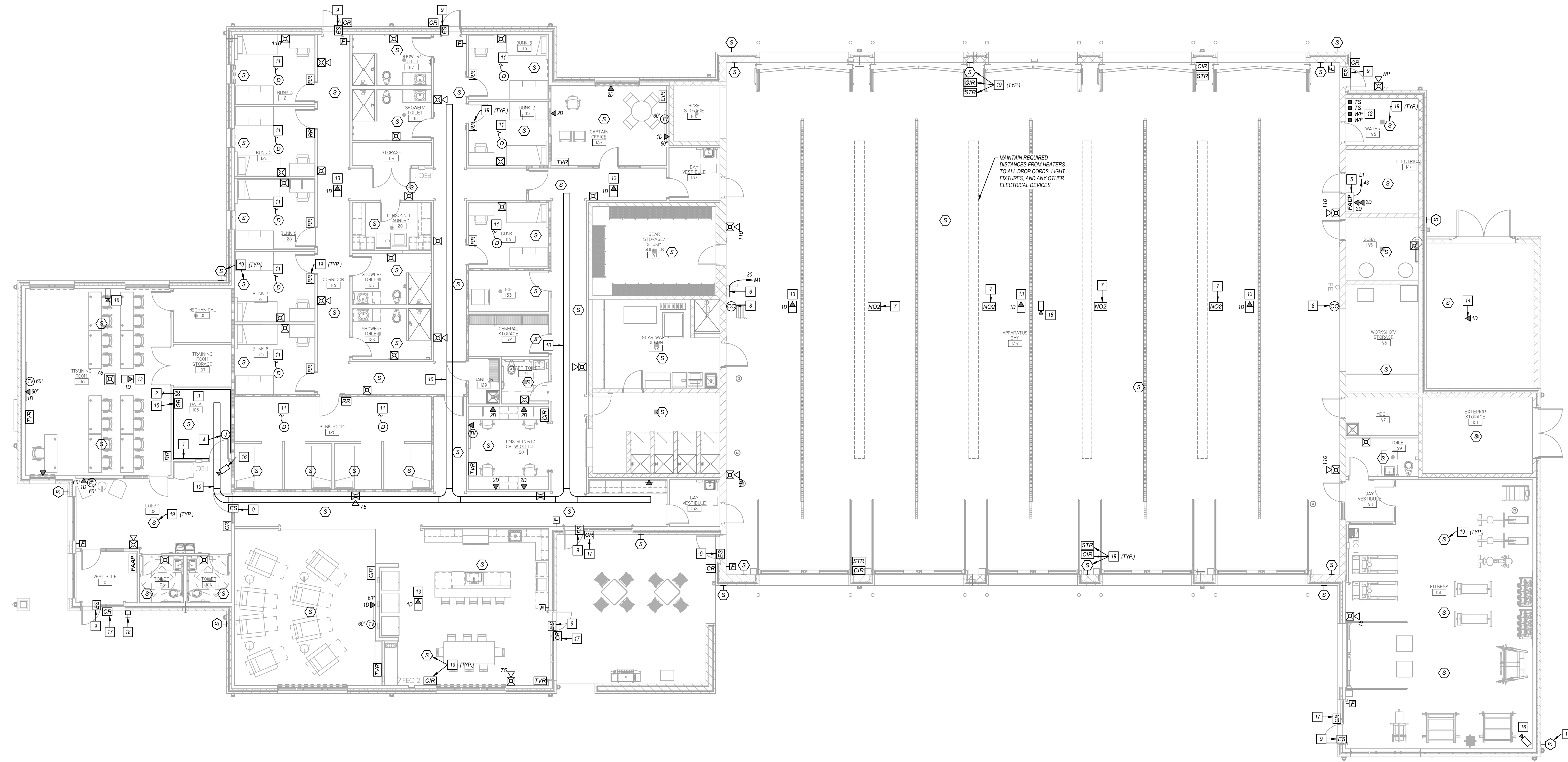
Structural Engineer
Bob D. Campbell & Co.
KS Certificate of Authority #000442
4338 Bellview
Kansas City, MO 64111
816-778-7149

MEP Engineer
PKMR Engineers, Inc.
KS Certificate of Authority #E-1682
13300 W. 98th St.
Lenexa, KS 66215
913-492-2400

NOTES - SPECIAL SYSTEMS

- 1 FIRE-RATED PLYWOOD BACKBOARD FOR TELECOMMUNICATIONS SERVICE ENTRANCE EQUIPMENT MOUNT AT 6' AFF.
- 2 1/4" CONDUIT FOR TELECOMMUNICATIONS SERVICE ENTRANCE CABLING. FURNISH CONDUITS WITH PULLSTRINGS AND BUSHED ENDS. REFER TO SITE PLAN FOR COORDINATION.
- 3 POWER FOR PAGING AND SECURITY SYSTEMS TO BE PLUGGED INTO RECEPTACLES FURNISHED ON WALLS.
- 4 ATX DEVICES FOR ALERTING SYSTEM BY OTHERS. COORDINATE EXACT LOCATION AND REQUIREMENTS WITH ALERTING SYSTEM PROVIDER.
- 5 DROP FOR FIRE ALARM CONTROL PANEL. PROVIDE TWO(2) DEDICATED PHONE LINES THIS LOCATION.
- 6 CARBON MONOXIDE/NITROGEN DIOXIDE DETECTION SYSTEM. COORDINATE POWER AND WIRING WITH MECHANICAL CONTRACTOR. PROVIDE RECESSED BOX FOR INSTALLATION OF SENSOR AND 3/4" CONDUIT TO ABOVE ACCESSIBLE CEILING FOR WIRING. COORDINATE ROUGH-IN WITH SUPPLIER.
- 7 PROVIDE ROUGH-IN AND WIRING FOR NITROGEN DIOXIDE REMOTE SENSOR. PROVIDE RECESSED BOX FOR INSTALLATION OF SENSOR AND 3/4" CONDUIT TO ABOVE ACCESSIBLE CEILING FOR WIRING. COORDINATE ROUGH-IN WITH SUPPLIER.
- 8 PROVIDE ROUGH-IN AND WIRING FOR CARBON MONOXIDE REMOTE SENSOR. PROVIDE RECESSED BOX FOR INSTALLATION OF SENSOR AND 3/4" CONDUIT TO ABOVE ACCESSIBLE CEILING FOR WIRING. COORDINATE ROUGH-IN WITH SUPPLIER.
- 9 PROVIDE INFRASTRUCTURE AT DOOR FOR POWER TO DOOR ACCESS CONTROL DEVICES AND/OR MAG LOCK. REFER TO ARCHITECTURAL PLANS FOR MORE INFORMATION.
- 10 12" WIDE BASKET CABLE TRAY ABOVE CEILING.
- 11 CIRCUIT SMOKE DETECTOR WITH POWER THIS ROOM.
- 12 EXACT QUANTITIES ARE TO BE SPECIFIED BY FIRE ALARM CONTRACTOR.
- 13 DATA DROP FOR WIRELESS ACCESS POINT.
- 14 DATA FOR GENERATOR REMOTE MONITORING.
- 15 GROUND BUS. RE. DETAIL AND RISER ON SHEET ES-03.
- 16 CEILING MOUNT CAMERA. COORDINATE EXACT LOCATION WITH CONTRACTOR.
- 17 CARD READER IS TO BE MOUNTED ON DOOR MULLION.
- 18 DOORBELL SYSTEM. COORDINATE EXACT LOCATION AND REQUIREMENTS WITH ARCHITECT.
- 19 ELECTRICAL CONTRACTOR TO INSTALL ROUGH-IN FOR STATION ALERTING EQUIPMENT. COORDINATE WITH ARCHITECT AND EQUIPMENT PROVIDER FOR EXACT LOCATIONS AND REQUIREMENTS.

JOB NUMBER 22003



SALINA FIRE STATION #4

EAST CRAWFORD STREET & MARKLEY ROAD
SALINA, KS 67401
CITY OF SALINA

755 Minnesota Ave., Suite 662 Kansas City, Kansas 66101 Tel. 816.300.4101 Fax 816.300.4102



BID SET DOCUMENTS

ISSUE DATE 09/09/2024
No. Description Date

WSKF, Inc. © 2024

SPECIAL SYSTEMS
E3.01

SPECIAL SYSTEMS PLAN
SCALE: 1/8" = 1'-0"



PEARSON KENT MCKINLEY RAFF ENGINEERS, LLC
13300 W. 98TH STREET
LENEXA, KS 66215
913.492.2400
WWW.PKMRENG.COM

DISTRIBUTION PANELBOARD SCHEDULE

PANEL DESIGNATION		MAIN BUS AMPS: 800	VOLTAGE: 208/120	MOUNTING: SURFACE						
MDP1		MAIN BREAKER AMPS: 700	PHASEWIRE: 3Ø, 4W	LOCATION: ELECTRICAL 144						
SCCR RATING (AIC): 35,000										
CIRCUIT NO.	CIRCUIT DESIGNATION	KVA	POLE	FRAME	TRIP	SETS	# OF WIRES	SIZE	GROUND	CONDUIT
1	PANELBOARD L1	88.5	3	400	225	1	4	#40	#4	2-1/2"
2	PANELBOARD M1	49.2	3	400	225	1	4	#40	#4	2-1/2"
3	PANELBOARD L2	77.4	3	400	225	1	4	#40	#4	2-1/2"
4	PANELBOARD M2	66.9	3	400	225	1	4	#40	#4	2-1/2"
5	PREPARED SPACE	0.0	3	400	-	-	-	-	-	-
6	PREPARED SPACE	0.0	3	200	-	-	-	-	-	-
7	PREPARED SPACE	0.0	3	200	-	-	-	-	-	-
8	PREPARED SPACE	0.0	3	100	-	-	-	-	-	-
9	PREPARED SPACE	0.0	3	100	-	-	-	-	-	-
10	SPD	0.0	3	100	80	1	3	#3	#8	1-1/4"

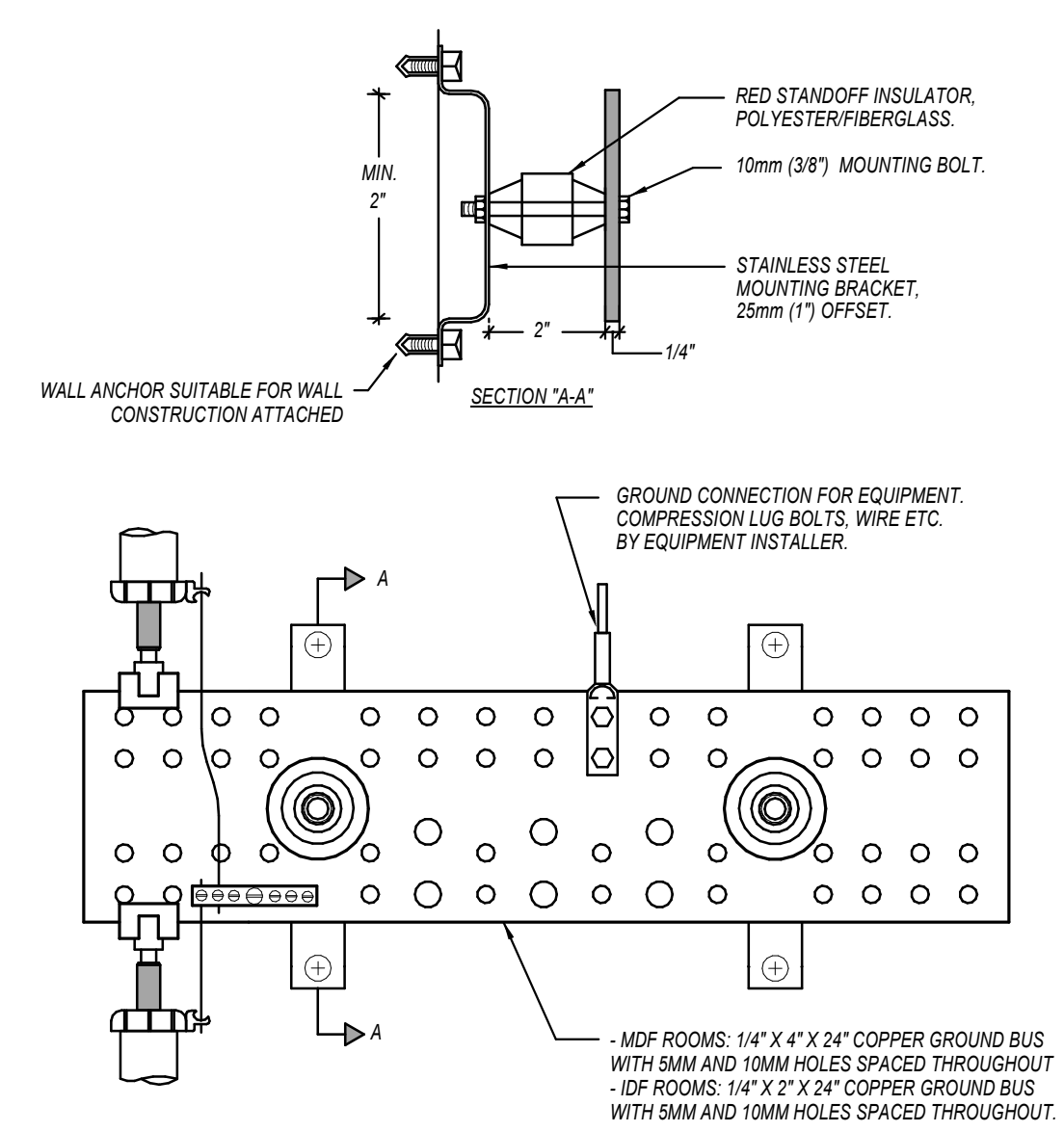
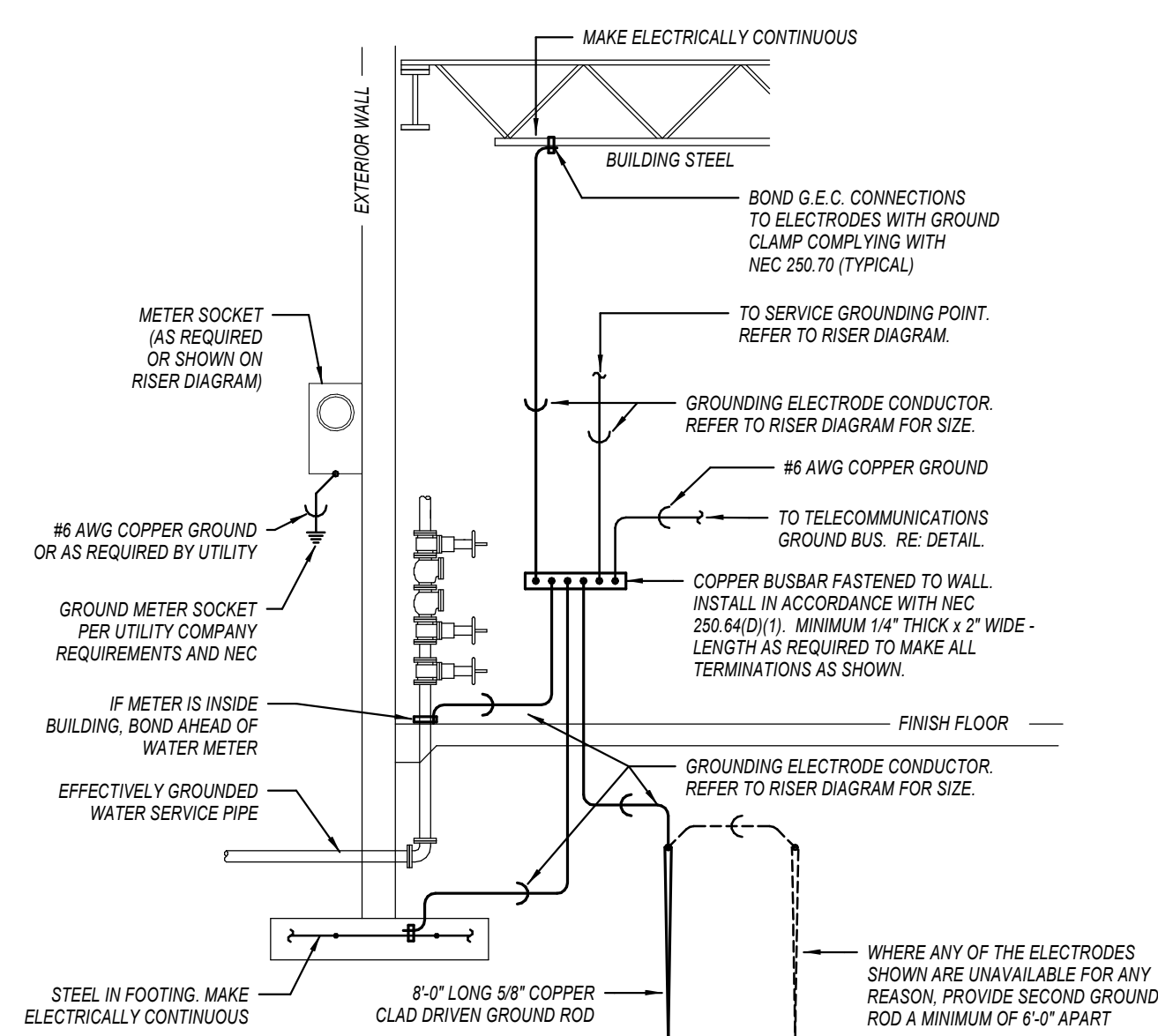
PANELBOARD SIZING LOAD

LOAD DESCRIPTION	CONNECTED LOAD	DEMAND FACTOR	CODE MIN. (VA)
LIGHTS	12,223	1.25	15,279
RECEPTACLES	100,620	100VA + 50% REST	55,310
MOTORS	49,582	1.25 x LARGEST + SUM OF REST	51,769
AIR CONDITIONING	29,540	0.00	0
SPACE HEATING	48,700	1.00	48,700
HEAT PUMP	0	1.00	0
CONTINUOUS	3,200	1.25	4,000
NON-CONTINUOUS	8,110	1.00	8,110
MISC. LOADS 1	0	1.00	0
TOTAL CONNECTED LOAD (VA)	251,975	SIZING LOAD (VA)	183,168
TOTAL CONNECTED LOAD (AMPS)	699.4	SIZING LOAD (AMPS)	508.4

- REMARKS:
- EATON POW-R-LINE 4X PANELBOARD OR EQUAL.
 - SINGLE SECTION, 44" WIDE PANELBOARD.
 - FURNISH PANELBOARD WITH EXTERNAL SPD.

GENERATOR / TRANSFER SWITCH CALCULATIONS

CONNECTED LOADS TO TRANSFER SWITCH (VA)		SIZING LOADS		
DESCRIPTION	MDP1	TOTAL	DEMAND FACTOR	CODE MIN. (VA)
LIGHTS	12,223	-	12,223	15,279
RECEPTACLES	100,620	-	100,620	55,310
MOTORS	49,582	-	49,582	51,769
AIR CONDITIONING	29,540	-	29,540	0
SPACE HEATING	48,700	-	48,700	48,700
HEAT PUMP	0	-	0	0
CONTINUOUS	3,200	-	3,200	4,000
NON-CONTINUOUS	8,110	-	8,110	8,110
MISC. LOADS 1	0	-	0	0
TOTALS (VA)	251,975	0	251,975	183,168
TOTALS (AMPS)	699.4	0.0	699.4	508.4



EQUIPMENT FAULT CURRENT RATING SCHEDULE

EQUIPMENT	SCA **	SCCR	% OF RATING	NOTES
AUTOMATIC TRANSFER SWITCH ATS-1	27,990	65,000	42%	1
DISTRIBUTION PANELBOARD MDP1	26,332	35,000	75%	1
PANELBOARD L1	22,913	35,000	65%	1
PANELBOARD M1	22,913	35,000	65%	1
PANELBOARD L2	6,732	10,000	67%	1
PANELBOARD M2	6,732	10,000	67%	1

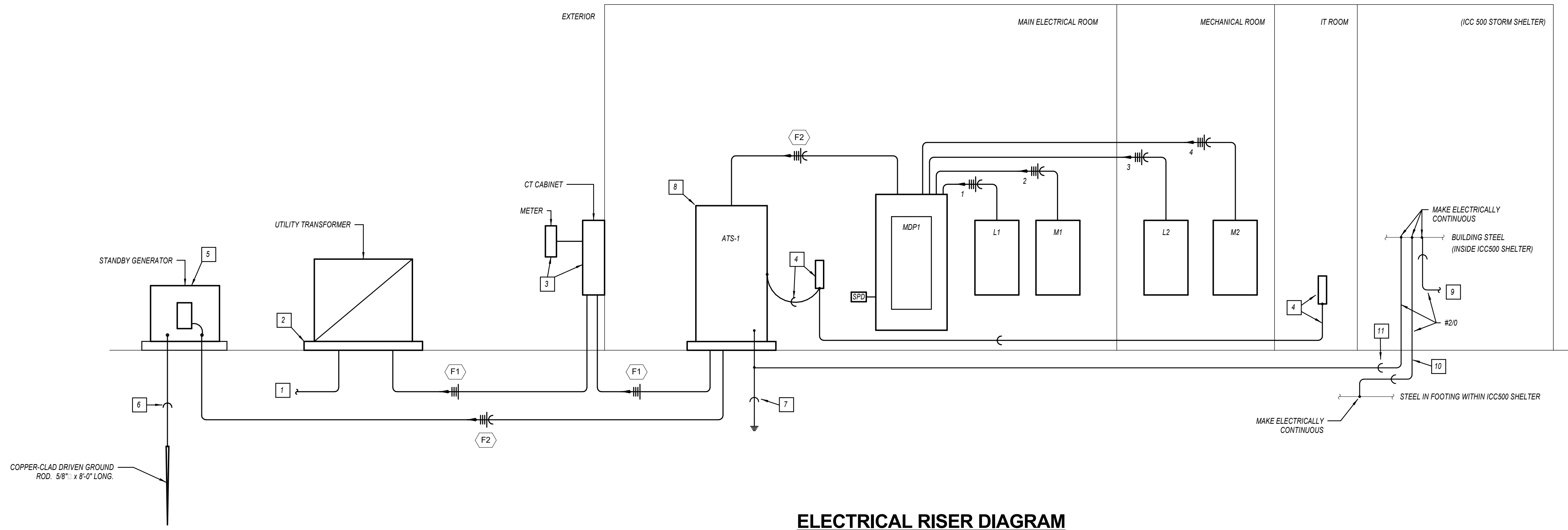
NOTES:
 1. RATING BASED ON AN ASSUMED FAULT AT UTILITY CO. TRANSFORMER OF 55,784VA.
 2. EQUIPMENT MAY BE SERVED RATED.
 3. CALCULATIONS PERFORMED USING BUSMANN POINT-TO-POINT METHOD.

EQUIPMENT FEEDER SCHEDULE

FEEDER NO.	EQUIPMENT	LOAD (AMPS)	SETS	# OF WIRES	FEEDER SIZE	GROUND MATERIAL	CONDUIT SIZE
F1	AUTOMATIC TRANSFER SWITCH ATS-1	508.4	2	4	350 MCM	COPPER	3"
F2	DISTRIBUTION PANELBOARD MDP1	508.4	2	4	500 MCM	#10 COPPER	3-1/2"

GROUNDING ELECTRODE CONDUCTOR SCHEDULE

GROUND DESIG.	EQUIPMENT	CONDUCTOR			CONDUIT SIZE
		NO.	GROUND	MATERIAL	
1G	DISTRIBUTION PANELBOARD MDP1	1	#10	COPPER	1"



POWER PLAN KEYED NOTES

- 1 1/4" CONDUIT WITH PULL STRING. REFER TO CIVIL PLANS FOR CONTINUATION. COORDINATE ALL WORK WITH UTILITY.
- 2 CONCRETE TRANSFORMER PAD PER UTILITY STANDARDS. REFER TO SITE PLAN.
- 3 MOUNT ON SIDE OF BUILDING PER UTILITY STANDARDS. REFER TO SITE AND POWER PLANS.
- 4 GROUND BUS LOCATED IN TECH ROOM AND MAIN ELECTRICAL ROOM. REFER TO DETAIL THIS SHEET. BOND TO GROUNDING ELECTRODE SYSTEM AT ATS-1 WITH (1)#6 GROUND.
- 5 CAT D175 GC, 60HZ, 175KW/219KVA, 125000V, DIESEL STANDBY GENERATOR WITH UNIMOUNTED 600A-3P CIRCUIT BREAKER PROVIDED WITH SOUND ATTENUATED LEVEL 2 ENCLOSURE AND INTEGRAL 399.2 GALLON FUEL TANK.
- 6 (1)#20 GROUND IN 1" CONDUIT. BOND TO GENERATOR ENCLOSURE FOR LIGHTNING PROTECTION OF ENCLOSURE.
- 7 (1)#20 GROUNDING ELECTRODE CONDUCTOR IN 1" CONDUIT. REFER TO DETAIL THIS SHEET.
- 8 600A SERVICE ENTRANCE RATED AUTOMATIC TRANSFER SWITCH IN NEMA 1 ENCLOSURE WITH 600A-3P MAIN BREAKER ON INCOMING UTILITY. SERVICE SIDE OF TRANSFER SWITCH (NORMAL POWER SIDE). CAT MATCH OR EQUAL MATCHING TO GENERATOR MANUFACTURER.
- 9 BOND ALL EXPOSED METAL WITHIN THE ICC500 STORM SHELTER TO THE BUILDING STEEL WITHIN THE STORM SHELTER.
- 10 BOND TO STEEL IN FOOTING LOCATED INSIDE THE ICC500 STORM SHELTER.
- 11 BOND BACK TO MAIN BUILDING GROUNDING ELECTRODE.



Kansas Certificate of Authority #A-516
 Civil Engineer
 Kaw Valley Engineering
 KS Certificate of Authority #29241
 1427 Sunflower Lane
 Salina, KS 67401
 785-823-3400

Structural Engineer
 Bob D. Campbell & Co.
 KS Certificate of Authority #000442
 4338 Bellview
 Kansas City, MO 64111
 816-778-7149

MEP Engineer
 PKMR Engineers, Inc.
 KS Certificate of Authority #E-1682
 13300 W. 98th St.
 Lenexa, KS 66215
 913-492-2400

JOB NUMBER 22003

SALINA FIRE STATION #4
 EAST CRAWFORD STREET
 & MARKLEY ROAD
 SALINA, KS 67401
 CITY OF SALINA
 755 Minnesota Ave., Suite 662 Kansas City, Kansas 66101 Tel: 816.300.4102 Fax: 816.300.4102



BID SET DOCUMENTS

ISSUE DATE	09/09/2024
No. Description	Date

WSKF, Inc. © 2024

ELECTRICAL RISER DIAGRAM
E4.01



PEARSON KENT MCKINLEY RAFF ENGINEERS, LLC
 13300 W 98TH STREET
 LENEXA, KS 66215
 913.492.2400
 WWW.PKMRENG.COM

PANELBOARD BREAKER KEYED NOTES

- FURNISH GFCI-PROTECTED BREAKER.
BREAKER SHALL BE PAINTED OR FURNISHED RED AND PROVIDED WITH A LOCK ON DEVICE.
FURNISH 15A ADJUSTABLE ELECTRONIC TRIP BREAKER. EXACT BREAKER TYPE AND TRIP UNIT SETTINGS TO BE PER COORDINATION STUDY.

SINGLE-SECTION PANELBOARD SCHEDULE
PANEL DESIGNATION: L1
MAIN LUG AMPS: 225 SCOR RATING (AIC): 35,000
MOUNTING: SURFACE LOCATION: ELECTRICAL 144
DESCRIPTION, PHASE, C/B, TRIP, POLE, DESCRIPTION

PANELBOARD SIZING LOAD
LOAD DESCRIPTION, CONNECTED, DEMAND, CODE MIN. (VA)
LIGHTS, RECEPTACLES, MOTORS, AIR CONDITIONING, SPACE HEATING, HEAT PUMP, CONTINUOUS, NON-CONTINUOUS, MISC. LOADS 1

CONNECTED PHASE LOADS
PHASE, VA, AMPS
A, B, C, TOTALS

REMARKS: 1. EATON POW-R-LINE 2X OR EQUAL

SINGLE-SECTION PANELBOARD SCHEDULE
PANEL DESIGNATION: L2
MAIN LUG AMPS: 225 SCOR RATING (AIC): 10,000
MOUNTING: SURFACE LOCATION: MECHANICAL 108
DESCRIPTION, PHASE, C/B, TRIP, POLE, DESCRIPTION

PANELBOARD SIZING LOAD
LOAD DESCRIPTION, CONNECTED, DEMAND, CODE MIN. (VA)
LIGHTS, RECEPTACLES, MOTORS, AIR CONDITIONING, SPACE HEATING, HEAT PUMP, CONTINUOUS, NON-CONTINUOUS, MISC. LOADS 1

CONNECTED PHASE LOADS
PHASE, VA, AMPS
A, B, C, TOTALS

REMARKS: 1. EATON POW-R-LINE 1X OR EQUAL

SINGLE-SECTION PANELBOARD SCHEDULE
PANEL DESIGNATION: M1
MAIN LUG AMPS: 225 SCOR RATING (AIC): 35,000
MOUNTING: SURFACE LOCATION: ELECTRICAL 144
DESCRIPTION, PHASE, C/B, TRIP, POLE, DESCRIPTION

PANELBOARD SIZING LOAD
LOAD DESCRIPTION, CONNECTED, DEMAND, CODE MIN. (VA)
LIGHTS, RECEPTACLES, MOTORS, AIR CONDITIONING, SPACE HEATING, HEAT PUMP, CONTINUOUS, NON-CONTINUOUS, MISC. LOADS 1

CONNECTED PHASE LOADS
PHASE, VA, AMPS
A, B, C, TOTALS

REMARKS: 1. EATON POW-R-LINE 2X OR EQUAL

SINGLE-SECTION PANELBOARD SCHEDULE
PANEL DESIGNATION: M2
MAIN LUG AMPS: 225 SCOR RATING (AIC): 10,000
MOUNTING: SURFACE LOCATION: MECHANICAL 108
DESCRIPTION, PHASE, C/B, TRIP, POLE, DESCRIPTION

PANELBOARD SIZING LOAD
LOAD DESCRIPTION, CONNECTED, DEMAND, CODE MIN. (VA)
LIGHTS, RECEPTACLES, MOTORS, AIR CONDITIONING, SPACE HEATING, HEAT PUMP, CONTINUOUS, NON-CONTINUOUS, MISC. LOADS 1

CONNECTED PHASE LOADS
PHASE, VA, AMPS
A, B, C, TOTALS

REMARKS: 1. EATON POW-R-LINE 1X OR EQUAL



Kansas Certificate of Authority #A-516

Civil Engineer Kaw Valley Engineering
KS Certificate of Authority #29241
1627 Sunflower Lane
Salina, KS 67401
785-823-3400

Structural Engineer Bob D. Campbell & Co.
KS Certificate of Authority #000442
4338 Bellview
Kansas City, MO 64111
816-778-7149

M/E/P Engineer PKMR Engineers, Inc.
KS Certificate of Authority #E-1682
13300 W. 98th St.
Lenexa, KS 66215
913-492-2400

JOB NUMBER 22003

SALINA FIRE STATION #4

EAST CRAWFORD STREET & MARKLEY ROAD SALINA, KS 67401 CITY OF SALINA



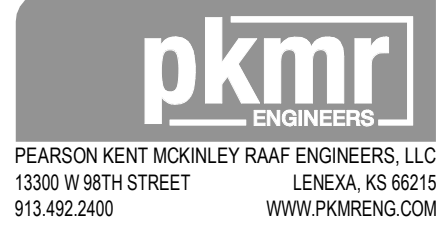
BID SET DOCUMENTS

ISSUE DATE 09/09/2024
No. Description Date

WSKF, Inc. © 2024

ELECTRICAL PANELBOARD SCHEDULES

E4.02



PEARSON KENT MCKINLEY RAFF ENGINEERS, LLC
13300 W. 98TH STREET
LENEXA, KS 66215
913.492.2400
WWW.PKMRNG.COM

LIGHTING CONTROL PANEL SCHEDULE (LC1)

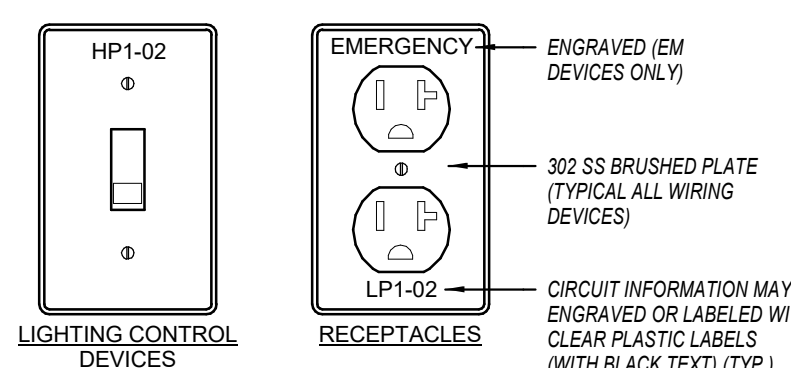
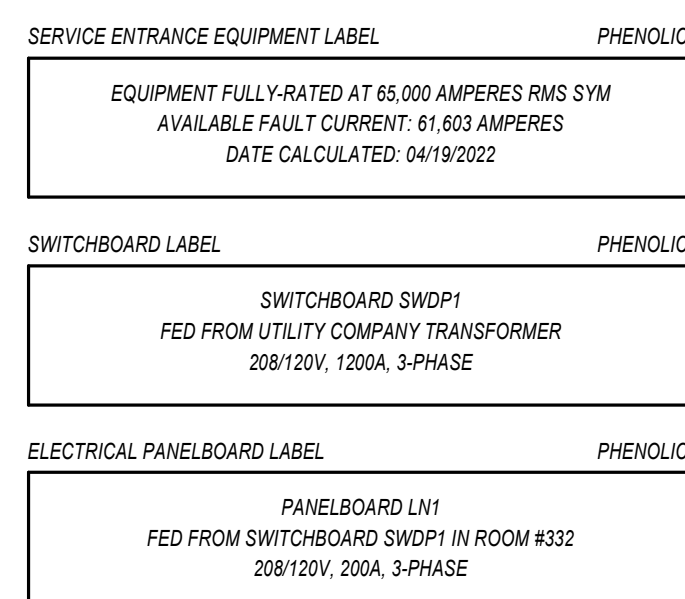
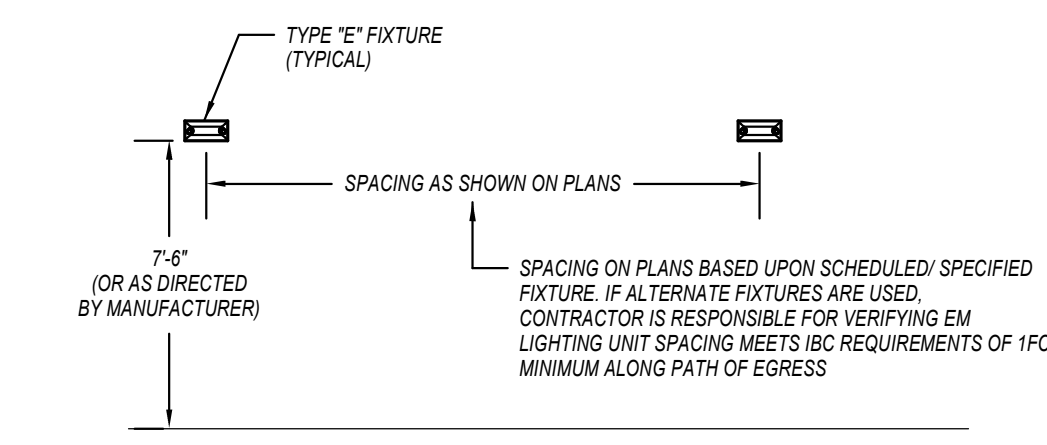
RELAY	CIRCUIT #	DESCRIPTION	NOTES
1	INV-1	EXTERIOR EGRESS CAN LIGHTING	1,3
2	INV-1	EXTERIOR EGRESS CAN LIGHTING	1,3
3	L1-37	EXTERIOR CAN LIGHTING	1
4	L1-37	EXTERIOR CAN LIGHTING	1
5	L1-43	EXTERIOR POLE LIGHTING	2
6	L1-47	EXTERIOR POLE LIGHTING	2
7	L1-49	EXTERIOR FLAGPOLE LIGHTING	2
8	L1-51	MONUMENT SIGN	4

NOTES:
 1. PHOTOCELL ON / PHOTOCELL OFF.
 2. PHOTOCELL ON / TIMECLOCK OFF.
 3. PROVIDE CIRCUIT WITH UL 204 RELAY.
 4. MANUAL ON / MANUAL OFF.

PANEL REMARKS:
 1. WATTS/OPPER LPH PANEL OR EQUAL.
 2. FURNISH WITH EXTERIOR PHOTOCELL.
 3. REFER TO DETAIL ON SHEET E5.02 FOR CONNECTIONS, ETC.

EMERGENCY LIGHTING FIXTURES DETAIL

NOT TO SCALE



GENERAL LABELING NOTES:
 1. REFER TO PLANS/SPECS FOR ADDITIONAL REQUIREMENTS, INCLUDING:
 A) DEVICE AND LABEL COLORS
 B) LABELING REQUIREMENTS FOR OTHER ITEMS NOT SHOWN HERE
 2. CIRCUIT NUMBERS/INFORMATION SHOWN ON THIS DETAIL ARE FOR EXAMPLE ONLY. REFER TO FLOOR PLANS / PANELBOARD SCHEDULES FOR EXACT INFORMATION TO BE ON LABELS.

LABELING DETAIL

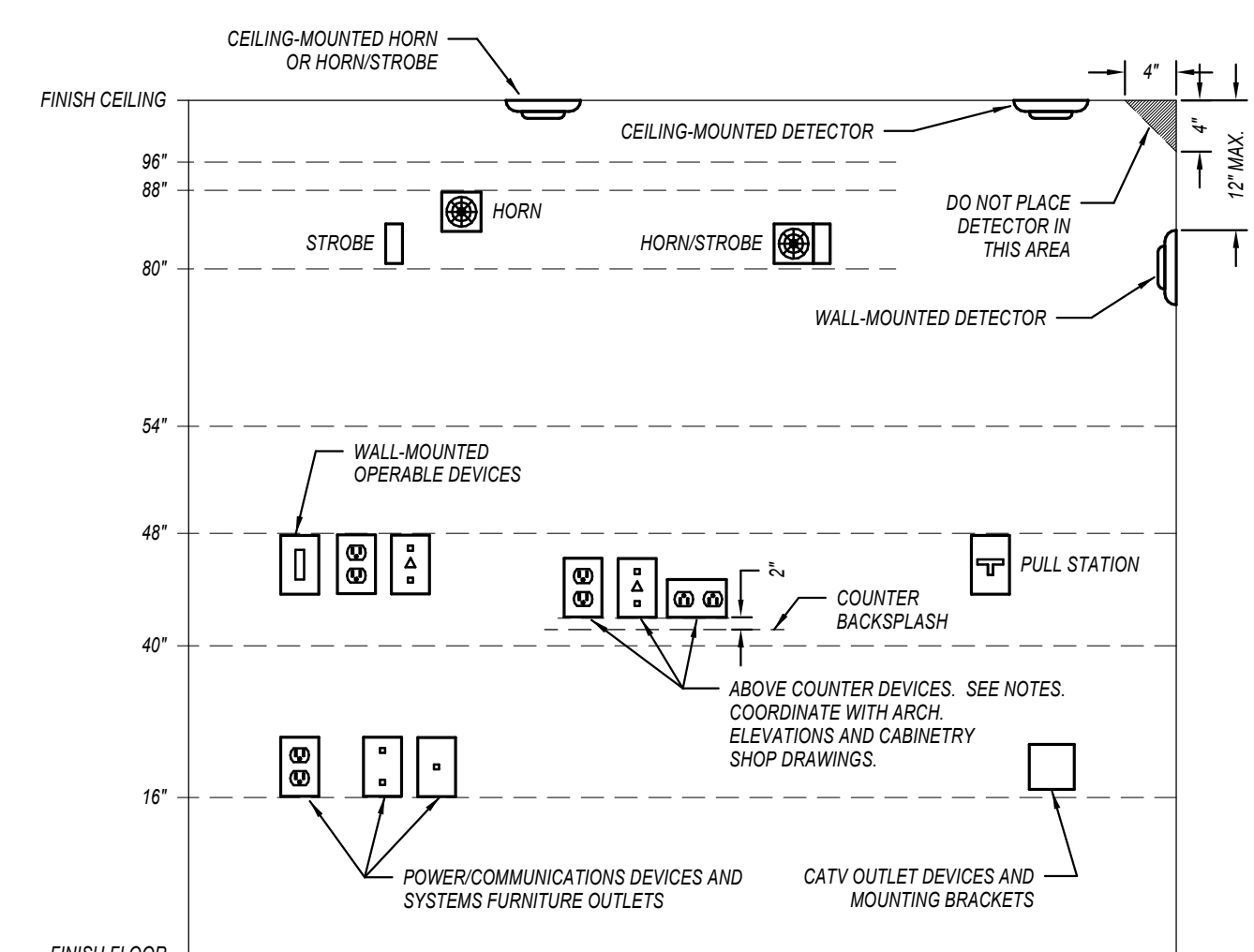
NOT TO SCALE

LIGHT FIXTURE SCHEDULE

FIXTURE TYPE	MANUFACTURER	CATALOG NUMBER	DESCRIPTION	LED MODULE / DRIVER				DIMMING	VOLTAGE	REMARKS	
				ID	WATTS	LUMENS	CRI				
A	WILLIAMS	AFT SERIES	2"X2" RECESSED "FLOATING LENS" ARCHITECTURAL LED TROFFER. MATTE WHITE PAINT HOUSING WITH DIFFUSE MATTE ACRYLIC CENTER LENS. GRID MOUNTING.	L49	37.2	4100	80	3500K	0-10V	120/277	1
B	WILLIAMS	4OR SERIES	4"X4" ROUND RECESSED DOWNLIGHT. DIE-FORMED STEEL PAN WITH FINNED, EXTRUDED ALUMINUM PASSIVE HEAT SINK. OPEN, SEMI-FLANGED. SEMI-SPECULAR LOW REFLECTANCE FINISH. ALUMINUM REFLECTOR WITH MEDIUM BEAM ANGLE DISTRIBUTION AND OPTIONAL T/O LENS OVER DOORS.	L20	19.8	1795	80	3500K	0-10V	120/277	1
B3	WILLIAMS	4OR SERIES	SAME AS FIXTURE TYPE 'B' BUT WITH SHOWER LENS OPTION.	L20	19.8	1795	80	3500K	0-10V	120/277	1
C	HUNTER	PRESTO	3-BLADE MODERN AESTHETIC 4"X4" CEILING FAN. NO LIGHT KIT. PROVIDE WITH FAN SPEED CONTROLLER. MATTE BLACK FINISH. 1" DOWNROD.	-	-	-	-	-	-	120/277	1
D	WILLIAMS	ASM SERIES	4"X4" LONG, 4" APERTURE LINEAR RECESSED FIXTURE. FROSTED, 80% EFFICIENT, FLUSH LENS. FOR INSTALLATION IN ARBITRARY TECH ZONE CEILING. MATTE WHITE FINISH PAINTED AFTER FABRICATION.	L48	33.9	4600	80	3500K	0-10V	120/277	1
F	AXIS	BEAM 3	36" O' LONG, 4" APERTURE LINEAR RECESSED FIXTURE. FROSTED, 80% EFFICIENT, FLUSH LENS. FOR INSTALLATION IN ARBITRARY TECH ZONE CEILING. MATTE WHITE FINISH PAINTED AFTER FABRICATION.	500LMFT	144	18000	90	3500K	0-10V	120/277	1
F2	AXIS	BEAM 3	SAME AS FIXTURE TYPE 'F' BUT 28' LONG.	-	112	14000	90	3500K	0-10V	120/277	1
G	WILLIAMS	SERIES GL	4"X4" LONG, LOW-PROFILE INDUSTRIAL FIXTURE. ALUMINUM HOUSING. SURFACE MOUNTED. PROVIDED WITH SLOPED CEILING SPACER. COORDINATE MOUNTING HEIGHT WITH ARCHITECT.	L200	133	20065	80	4000K	0-10V	120/277	1
H	BOBRICK	B-169	2"X4" WIDE BY 36" HIGH SIDE-LIT LED VANITY MIRROR. COORDINATE EXACT SIZE WITH ARCHITECT.	-	12	1250	90	3500K	0-10V	120/277	1
J	ASTRO	DIGIT LED	WALL MOUNTED LED READING LIGHT INTEGRATED INTO HEADBOARD CASEWORK. COORDINATE EXACT FINISH AND LOCATION WITH ARCHITECT.	-	9	630	80	3500K	-	120/277	1
K	EUROPHASE	MANSON	17" INTEGRATED LED PENDANT LIGHT. COORDINATE EXACT PENDANT LENGTH AND LOCATION WITH ARCHITECT. FURNISH WITH MATTE BLACK FINISH.	-	7	205	90	3000K	ELV	120/277	1
L	BOBRICK	B-169	LED SIDE-LIT MIRROR, 24" WIDE X 36" HIGH.	-	12	1250	90	3500K	0-10V	120/277	1
M	AXIS	COVE PERFECT	LED LINEAR COVE LIGHT. EXTRUDED ALUMINUM HOUSING AND DIE CAST ALUMINUM END CAPS. FURNISH WITH H-O-OUTPUT AND INSIDE LIT OPTIONS. COORDINATE EXACT LENGTHS WITH ARCHITECT.	-	6WFT	700LMFT	80	3500K	0-10V	120/277	1
N	LITHONIA	HLS15-BLOND-INT	WALL-MOUNTED RECESSED NIGHT LIGHT MOUNTED AT 18" AFF. POWDER-COATED PLATE. COORDINATE EXACT FINISH WITH ARCHITECT. INTEGRAL LED MODULE. PROUD FASTENERS.	-	8	299	80	3500K	0-10V	120/277	1,3
P	WILLIAMS	BRCD SERIES	6" ROUND RECESSED COMMERCIAL DOWNLIGHT. DIE-FORMED STEEL PAN WITH FINNED, EXTRUDED ALUMINUM PASSIVE HEAT SINK. ALUMINUM WHITE STEPPED Baffle Trim with DIFFUSE LENS. FIELD SELECTABLE LUMEN OUTPUT AND CCT. UL LISTED FOR WET LOCATIONS UNDER COVERED CEILING.	-	22	1949	90	3500K	0-10V	120/277	1
R	LITHONIA	WDE 2	ARCHITECTURAL LED POLE MOUNTED FIXTURE. DIE-CAST ALUMINUM HOUSING AND HEAT SINKS. REMOVABLE TRIM ASSEMBLY WITH BLOC-ON SOCKETING. ONE-PIECE SPECULAR REFLECTOR WITH STANDARD ISS TYPE IV FORWARD THROW (FTM) DISTRIBUTION. SEMI-FULL CUTOFF LIGHTING CLASSIFICATION AND DARK SKY COMPLIANT. STANDARD DIE CAST ALUMINUM MOUNTING ARM. UL LISTED WET LOCATION, IP66 RATED. COORDINATE FINISH.	P4	35	4096	80	3500K	0-10V	120/277	1
S	LITHONIA	DSX1	ARCHITECTURAL LED POLE MOUNTED FIXTURE. DIE-CAST ALUMINUM HOUSING AND HEAT SINKS. REMOVABLE TRIM ASSEMBLY WITH BLOC-ON SOCKETING. ONE-PIECE SPECULAR REFLECTOR WITH STANDARD ISS TYPE IV FORWARD THROW (FTM) DISTRIBUTION. SEMI-FULL CUTOFF LIGHTING CLASSIFICATION AND DARK SKY COMPLIANT. STANDARD DIE CAST ALUMINUM MOUNTING ARM. UL LISTED WET LOCATION, IP66 RATED. COORDINATE FINISH.	P3	102	13496	70	3500K	0-10V	208	1
T	ACUTY	PINE	25 DEGREE NARROW SPOT LED FLOOD LIGHT. DIE-CAST HOUSING WITH THREADED KNUCKLE FITTING. POST MOUNT, AND C/3 VISOR. INTEGRAL LED DRIVER PRE-WIRED FOR 0-10V DIMMING APPLICATIONS. MOUNTED AT 100 DEGREES FROM OTHER LIGHTS (TRIANGULAR ARRAY) AROUND FLAG POLE AT 4FT FROM FLAGPOLE. ON CONCRETE BASE.	-	21	3000	90	3500K	0-10V	120/277	1
UC	ACOLYTE	RIBBONLITE 2	INDOOR NOMINAL 3/4" WIDE X 3/16" HIGH FLEXIBLE LED TAPE LIGHT. FIELD CUTTABLE EVERY 2". REFER TO PLANS FOR EXACT LENGTH. PROVIDE WITH LOW PROFILE ALUMINUM CHANNEL AND WHITE ACRYLIC LENS. PROVIDE WITH REMOTE TRANSFORMER AND RECEPTACLE IN TOP LEVEL OF CABINETS. QUANTITY AS REQUIRED.	-	3WFT	41LMFT	90	3500K	0-10V	120/277	1,3
V	WILLIAMS	29	4" LED WALL MOUNTED LUMINAIRE. FURNISHED WITH FROSTIC ACRYLIC PRISMATIC LENS. WHITE POWDER COAT FINISH.	L54	42.2	5400	80	3500K	0-10V	120/277	1,3
Y	DUAL-LITE	EY SERIES	LOW-PROFILE EMERGENCY LIGHTING UNIT. FLAME-RATED, UV-STABLE THERMOPLASTIC HOUSING. TWO (2) SEMI-RECESSED, ADJUSTABLE "EYEBALL" HEADS WITH GLASS LENS. WHITE FINISH. MAINTENANCE-FREE BATTERY FOR 90 MINUTE OPERATION OF LAMPS. INTEGRAL TEST SWITCH AND 45-CM INDICATOR.	-	-	-	-	-	-	120/277	1
X	DUAL-LITE	LE SERIES	RECESSED EDGE-LIT EXIT SIGN. FURNISH WITH ALL NECESSARY ROUGH-IN AND MOUNTING HARDWARE. EXTRUDED ALUMINUM HOUSING WITH SATIN ALUMINUM FINISH. WATER-CLEAR, MOLDED ACRYLIC EXIT CLEAR BACKGROUND. RED LETTERS WITH CLEAR BACKGROUND. CEILING OR WALL MOUNTED WITH PRINTED CHEVRON DIRECTIONAL ARROWS AS NOTICED ON PLANS.	-	-	-	-	-	-	120/277 (12)	1

REMARKS:
 1. FURNISH WITH AND INSTALL ALL NECESSARY HARDWARE AND MOUNTING BRACKETS.
 2. WHERE FIXTURE IS LABELED 'EM', PROVIDE WITH IOTA IBL-CP10 (10W CONSTANT POWER EMERGENCY BATTERY PACK) OR APPROVED EQUAL.
 3. LUMENS AND WATTAGE VALUES LISTED ARE PER FOOT.

GENERAL NOTES (APPLICABLE TO ALL FIXTURES):
 1. EQUALS ARE ACCEPTABLE ON ALL LIGHT FIXTURES UNLESS SPECIFICALLY NOTED OTHERWISE. REFER TO SPECIFICATIONS FOR APPROVED EQUAL FIXTURE MANUFACTURERS.
 2. ALL DRIVERS ARE INTEGRAL TO FIXTURE UNLESS NOTED OTHERWISE. REFER TO SPECIFICATIONS FOR ADDITIONAL FIXTURE/DRIVER/BALLAST REQUIREMENTS.
 3. ALL FIXTURES WITH PAINTED METAL PARTS SHALL BE PAINTED AFTER FABRICATION.
 4. LUMENS LISTED FOR LED FIXTURES ARE GENERALLY DELIVERED LUMENS UNLESS NOTED OTHERWISE.
 5. ALL EXTERIOR LED FIXTURES ARE FULL CUTOFF UNLESS NOTED OTHERWISE.
 6. ALL FIXTURES IN FOOD PREPARATION OR SERVING AREAS SHALL BE FURNISHED WITH SHATTER-RESISTANT LAMPS UNLESS LISTED.
 7. ALL FIXTURES SHALL BE IC RATED OR PROVIDED WITH INSULATION SHIELDS WHEN INSTALLED IN INSULATED AREAS OF THE TRUSS SPACE.
 8. FOR ALL FIXTURES INSTALLED IN RATED ASSEMBLIES, FURNISH AND INSTALL APPROVED FIRE BARRIER (E.Z. BARRIER OR TENMAT FF109 SERIES) OVER FIXTURE TO MAINTAIN 1 HOUR CEILING ASSEMBLY RATING.



GENERAL NOTES:
 1. MOUNTING HEIGHTS SHOWN IN THIS DETAIL ARE TYPICAL UNLESS OTHERWISE NOTED ON THE PLANS.
 2. SEE ARCHITECTURAL ELEVATIONS FOR SPECIAL CONDITIONS. NOTIFY ARCHITECT IMMEDIATELY OF ANY CONFLICTS.
 3. ALL INSTALLATIONS SHALL COMPLY WITH ADA.

VISUAL FIRE ALARM NOTIFICATION DEVICES (STROBE)
 LOCATE DEVICE SO THAT THE TOP OF THE DEVICE IS BETWEEN 90" AND 84" A.F.F. (N.F.P.A. OR 6" BELOW CEILING, WHICHEVER IS LOWER (ADA 2010)).

AUDIBLE FIRE ALARM NOTIFICATION DEVICES (HORN)
 LOCATE DEVICE SO THAT THE TOP OF THE HORN IS NOT MORE THAN 90" A.F.F. AND NOT LESS THAN 48" BELOW CEILING (N.F.P.A.).

FIRE ALARM ACTIVATION DEVICES (PULL STATION)
 LOCATE FRONT APPROACH DEVICES SO THAT THE HIGHEST OPERABLE PORTION OF THE DEVICE IS NOT MORE THAN 48" A.F.F. (ADA 2010) AND NOT LESS THAN 42" A.F.F. (N.F.P.A.).

POWER/COMMUNICATIONS DEVICES
 OUTLETS SHALL BE LOCATED AT 48" A.F.F. TO THE BOTTOM OF THE BOX. ABOVE COUNTER DEVICES SHALL BE LOCATED AT 2" ABOVE THE BACKSLASH OF THE COUNTER TO THE BOTTOM OF THE DEVICES. VERIFY WITH ARCHITECTURAL DETAILS.

WALL MOUNTED OPERABLE DEVICES
 LOCATE DEVICE SO THE BOTTOM OF THE DEVICE IS BETWEEN 90" AND 84" A.F.F. TO THE TOP OF THE OPERABLE PORTION OF THE DEVICE.

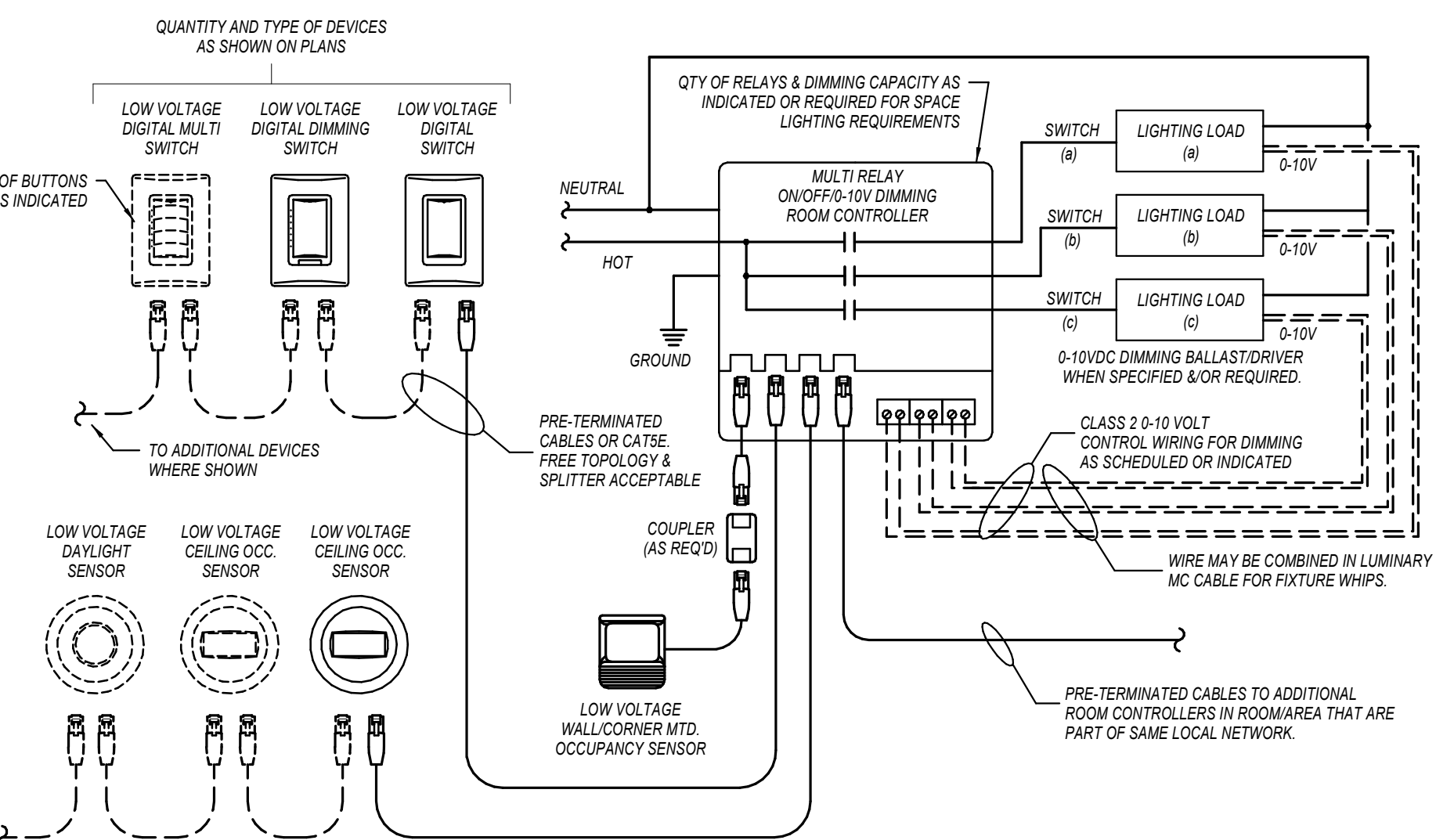
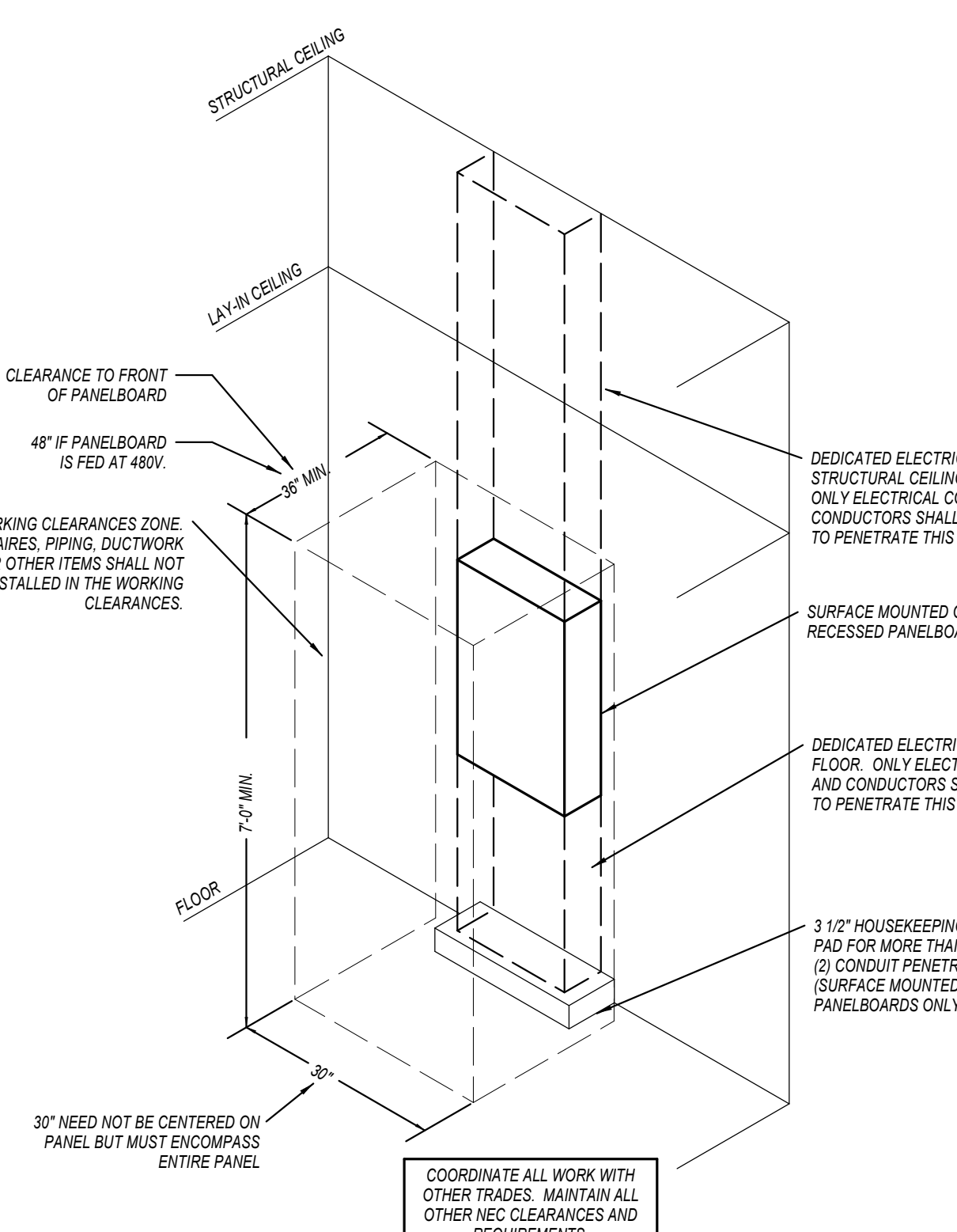
WALL MOUNTED OPERABLE DEVICES INCLUDE, BUT ARE NOT LIMITED TO THE FOLLOWING:
 LIGHT SWITCHES, DIMMERS, CONTROLS, ETC.
 PUSH BUTTONS
 NURSE/PATIENT CALL DEVICES (INCLUDING THOSE FOR STAFF USE)
 OTHER CONTROL OR "CALL" DEVICES

MOUNTING HEIGHTS FOR WALL-MOUNTED DEVICES

NOT TO SCALE

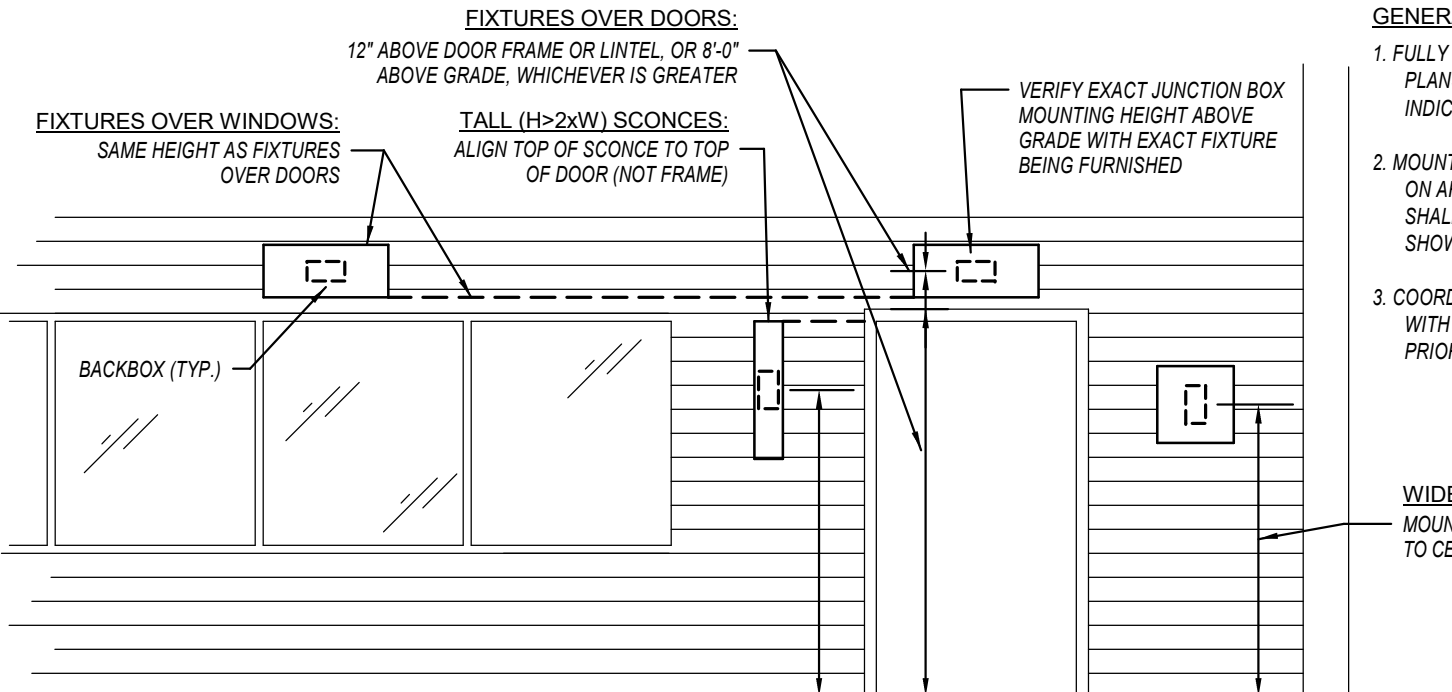
TYPICAL PANELBOARD INSTALLATION DETAIL

NOT TO SCALE



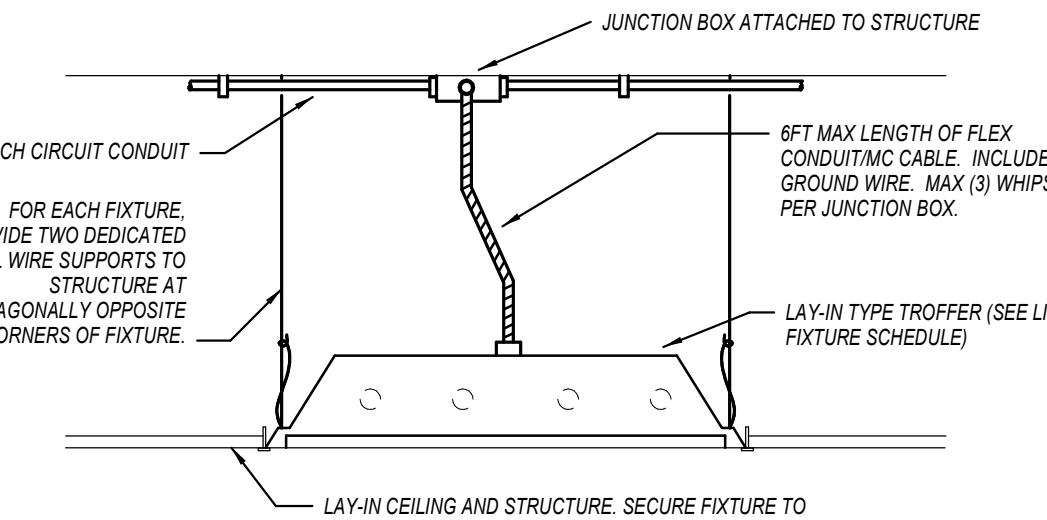
TYPICAL ROOM CONTROLLER SCHEMATIC WIRING DIAGRAM

NOT TO SCALE



EXTERIOR BUILDING-MOUNTED LIGHT FIXTURE MOUNTING HEIGHTS DETAIL

NOT TO SCALE



TYPICAL TROFFER SUPPORT AND WIRING

NOT TO SCALE



Kansas Certificate of Authority #A-516

Civil Engineer
 Kaw Valley Engineering
 KS Certificate of Authority #29241
 1627 Sunflower Lane
 Salina, KS 67401
 785-823-3400

Structural Engineer
 Bob D. Campbell & Co.
 KS Certificate of Authority #000442
 4338 Bellview
 Kansas City, MO 64111
 816-778-7149

MEP Engineer
 PKMR Engineers, Inc.
 KS Certificate of Authority #E-1682
 13300 W. 98th St.
 Lenexa, KS 66215
 913-492-2400

JOB NUMBER 22003

SALINA FIRE STATION #4
 EAST CRAWFORD STREET
 & MARKLEY ROAD
 SALINA, KS 67401
 CITY OF SALINA
 755 Minnesota Ave., Suite 662 Kansas City, Kansas 66101 Tel: 816.300.4101 Fax: 816.300.4102



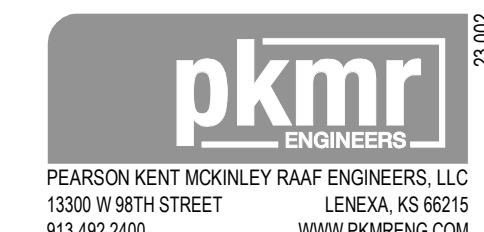
BID SET DOCUMENTS

ISSUE DATE 09/09/2024
 No. Description Date

WSKF, Inc. © 2024

ELECTRICAL SCHEDULES/DETAILS

E5.01



PEARSON KENT MCKINLEY RAFF ENGINEERS, LLC
 13300 W. 98TH STREET
 LENEXA, KS 66215
 913.492.2400 WWW.PKMRENG.COM



Kansas Certificate of Authority #A-516

Civil Engineer Kaw Valley Engineering KS Certificate of Authority #29241 1627 Sunflower Lane Salina, KS 67401 785-823-3400

Structural Engineer Bob D. Campbell & Co. KS Certificate of Authority #000442 4338 Bellview Kansas City, MO 64111 816-778-7149

M/E/P Engineer PKMR Engineers, Inc. KS Certificate of Authority #E-1682 13300 W. 98th St. Lenexa, KS 66215 913-492-2400

JOB NUMBER 22003

SALINA FIRE STATION #4

EAST CRAWFORD STREET & MARKLEY ROAD SALINA, KS 67401 CITY OF SALINA



BID SET DOCUMENTS

ISSUE DATE 09/09/2024 No. Description Date

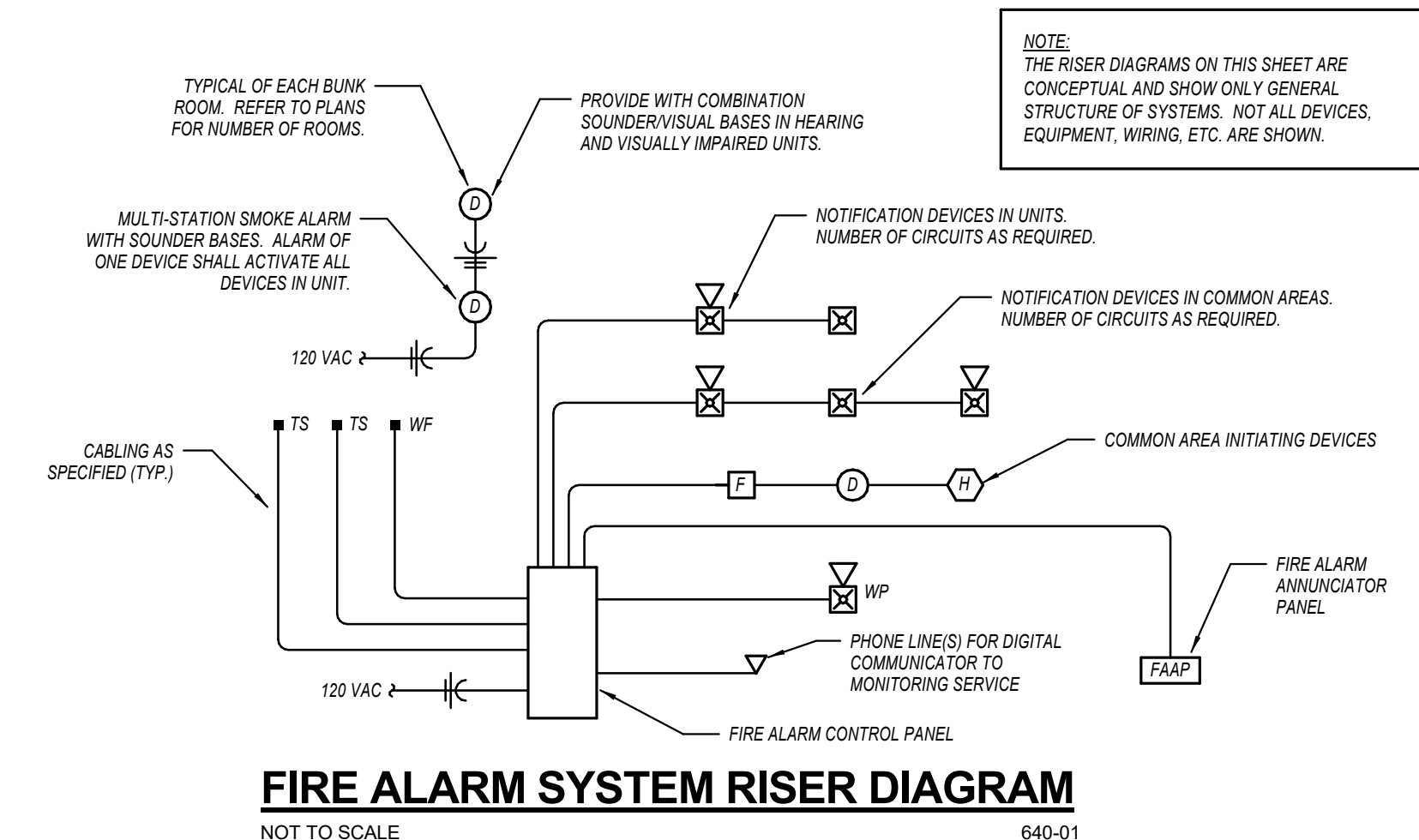
WSKF, Inc. © 2024

ELECTRICAL DETAILS

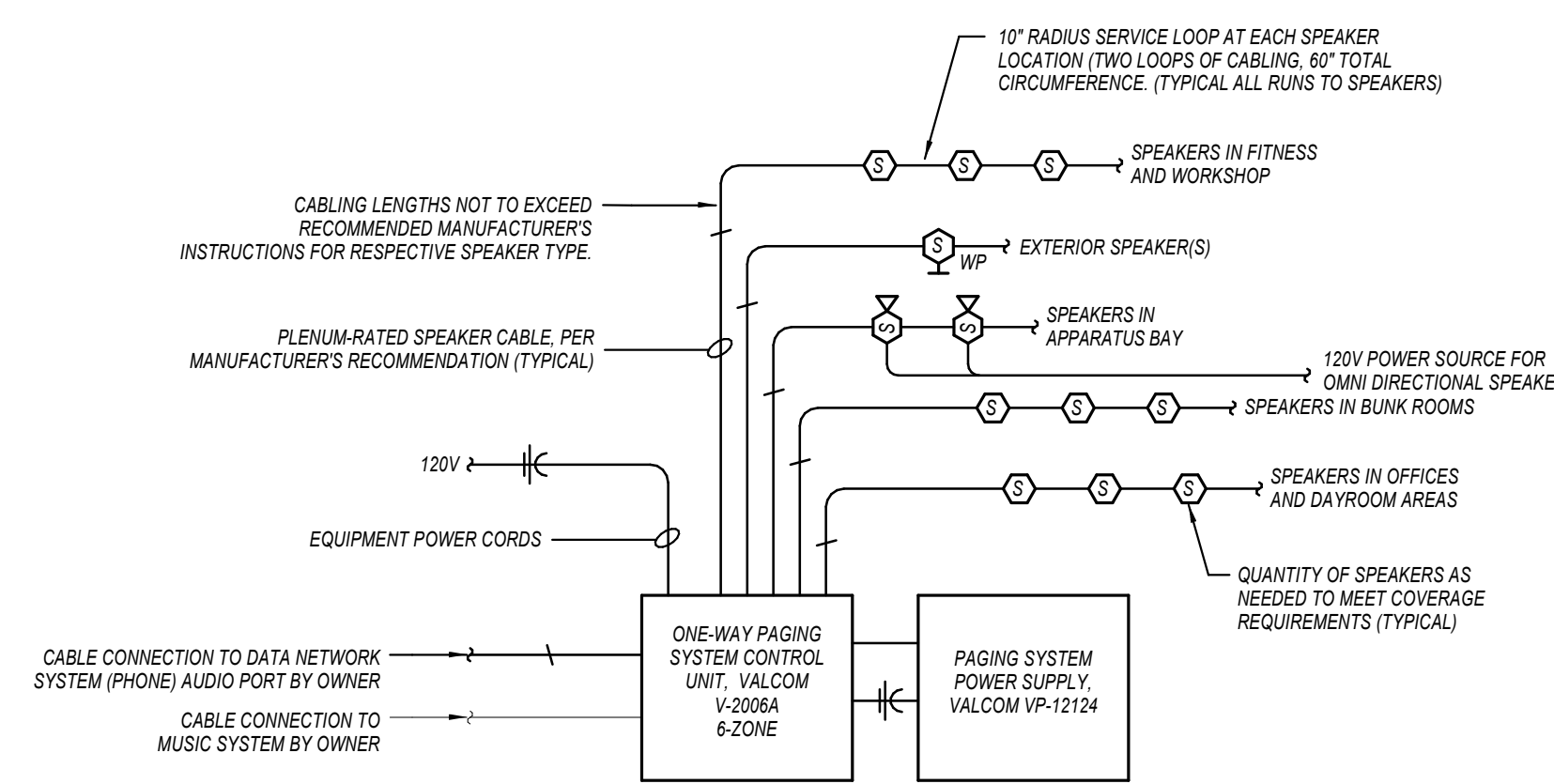
E5.02



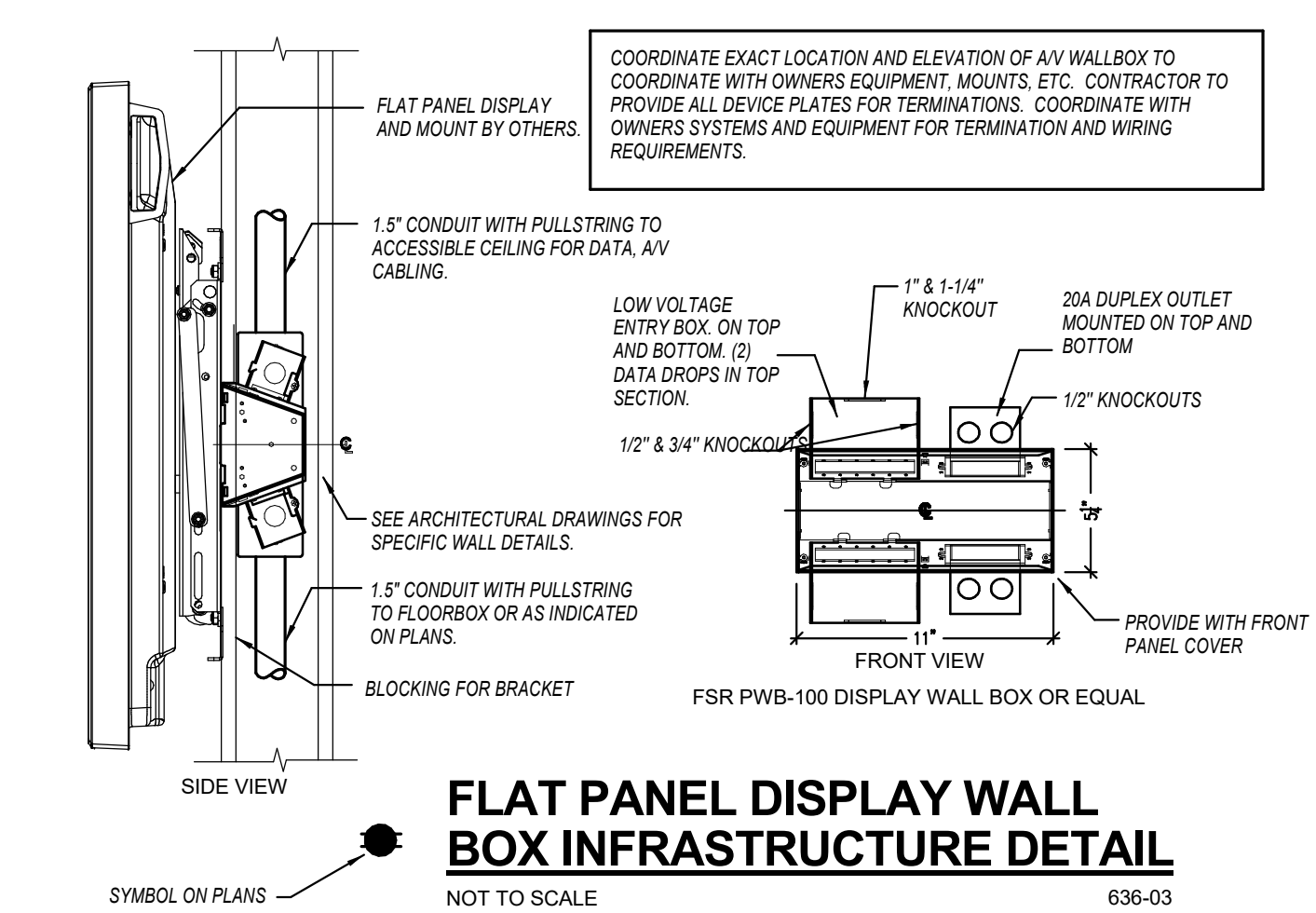
PEARSON KENT MCKINLEY RAFF ENGINEERS, LLC 13300 W. 98TH STREET LENEXA, KS 66215 913.492.2400 WWW.PKMRENG.COM



FIRE ALARM SYSTEM RISER DIAGRAM NOT TO SCALE 640-01

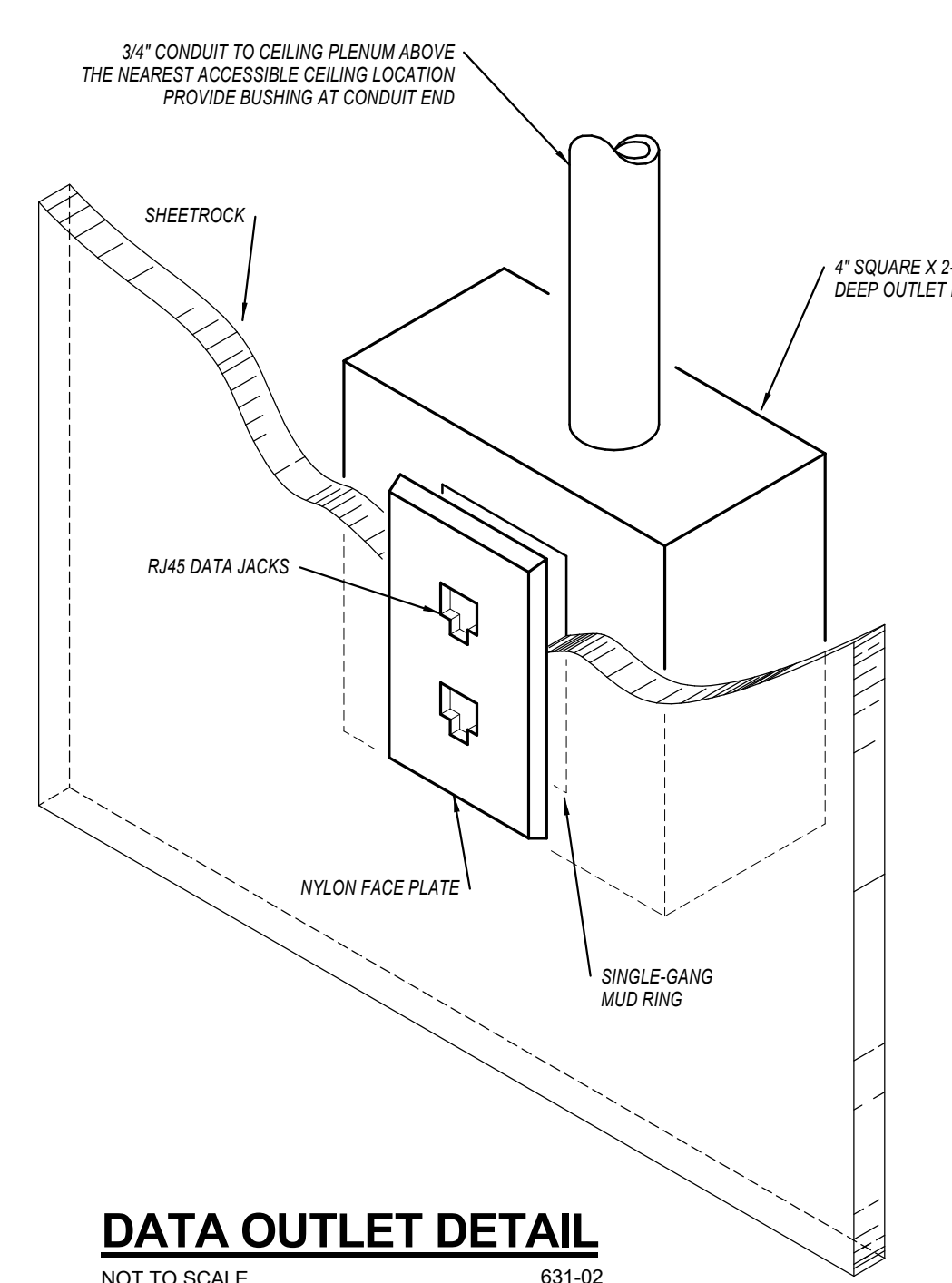


PAGING SYSTEM RISER DIAGRAM NOT TO SCALE

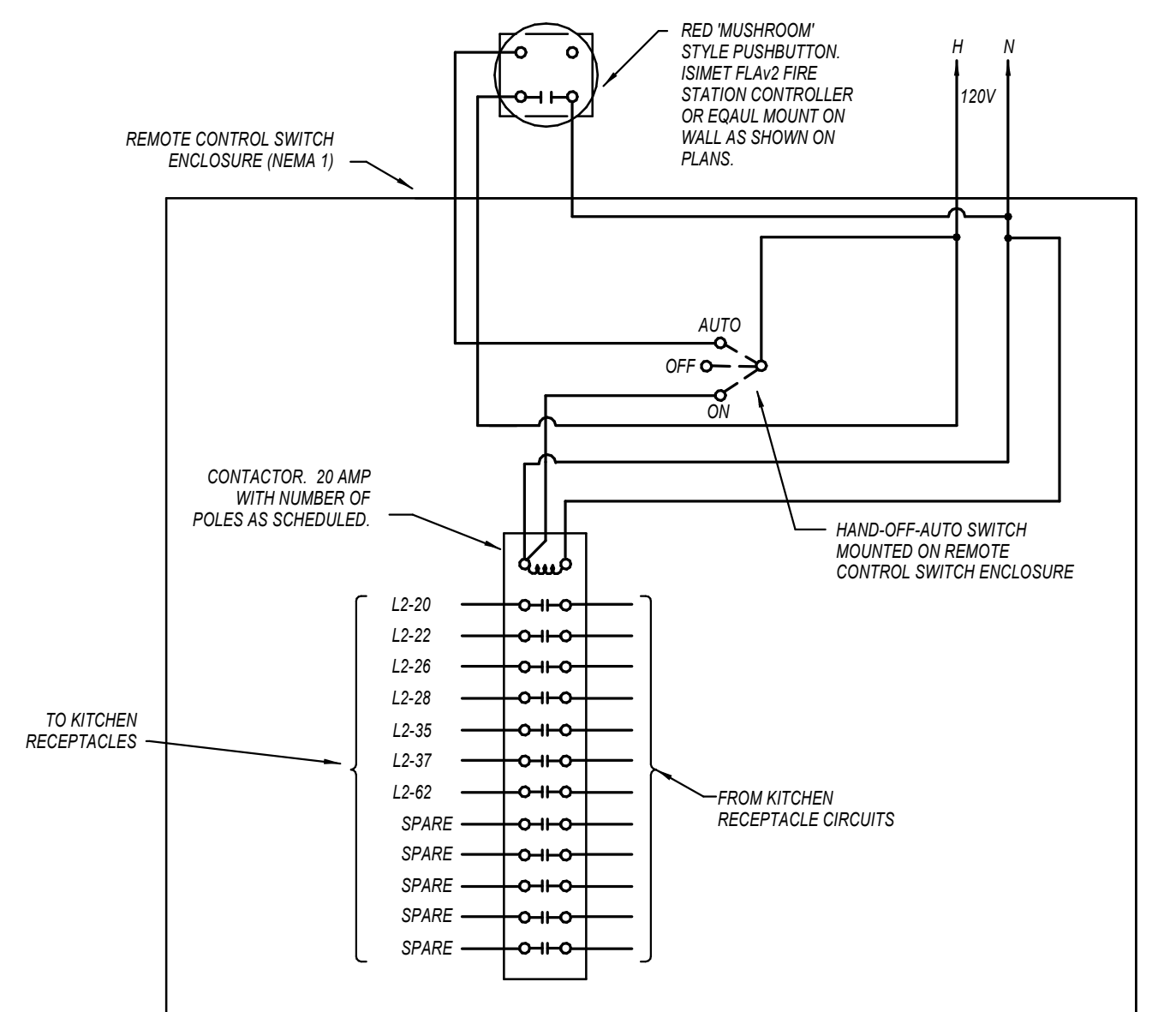


FLAT PANEL DISPLAY WALL BOX INFRASTRUCTURE DETAIL NOT TO SCALE 636-03

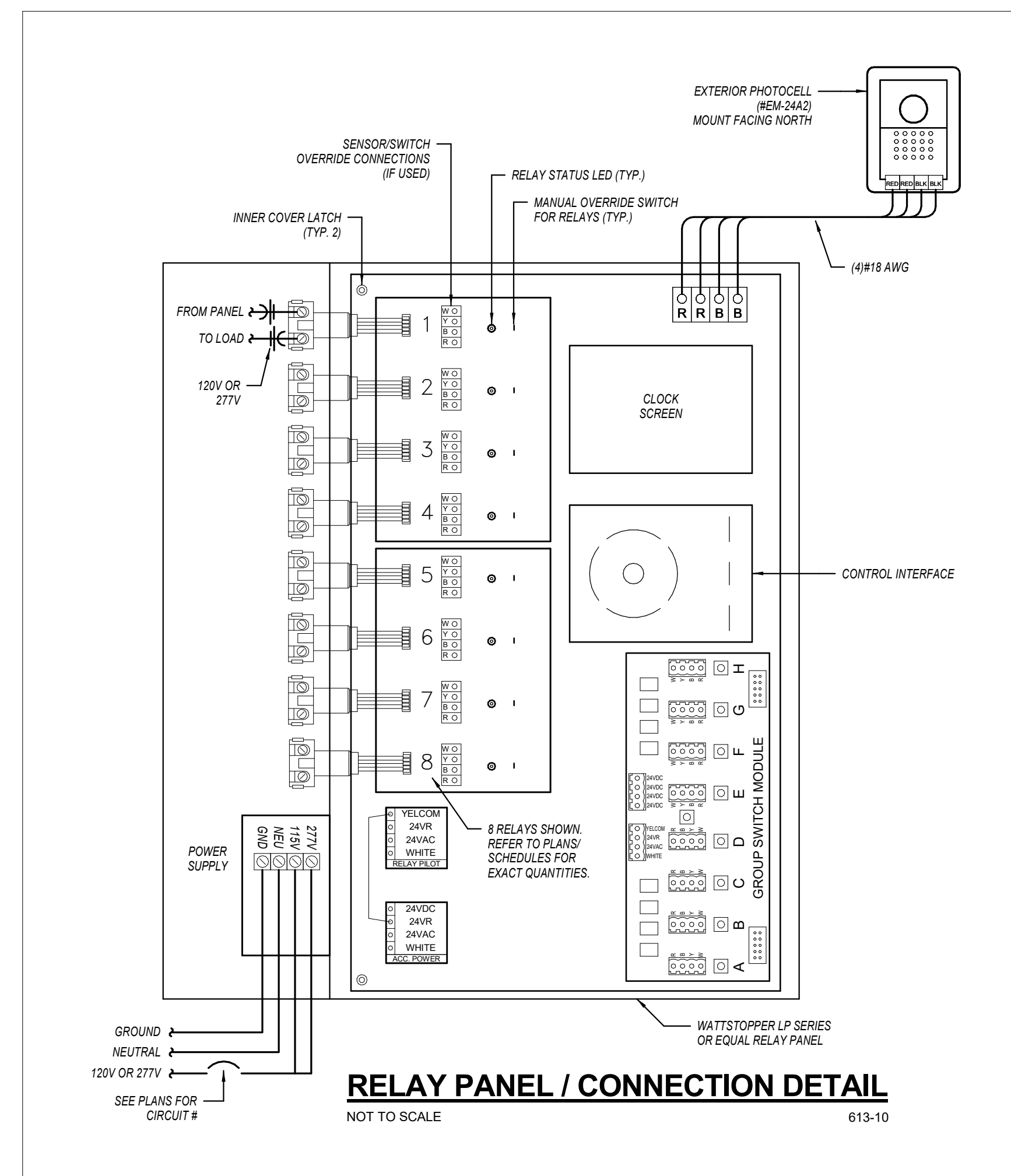
FLOOR BOX SCHEDULE table with columns for MARK, SYMBOL, FLOOR BOX DETAIL, and SUB-PLATE / DEVICE DETAIL. Includes details for recessed combination power/data floor boxes and power only floor boxes.



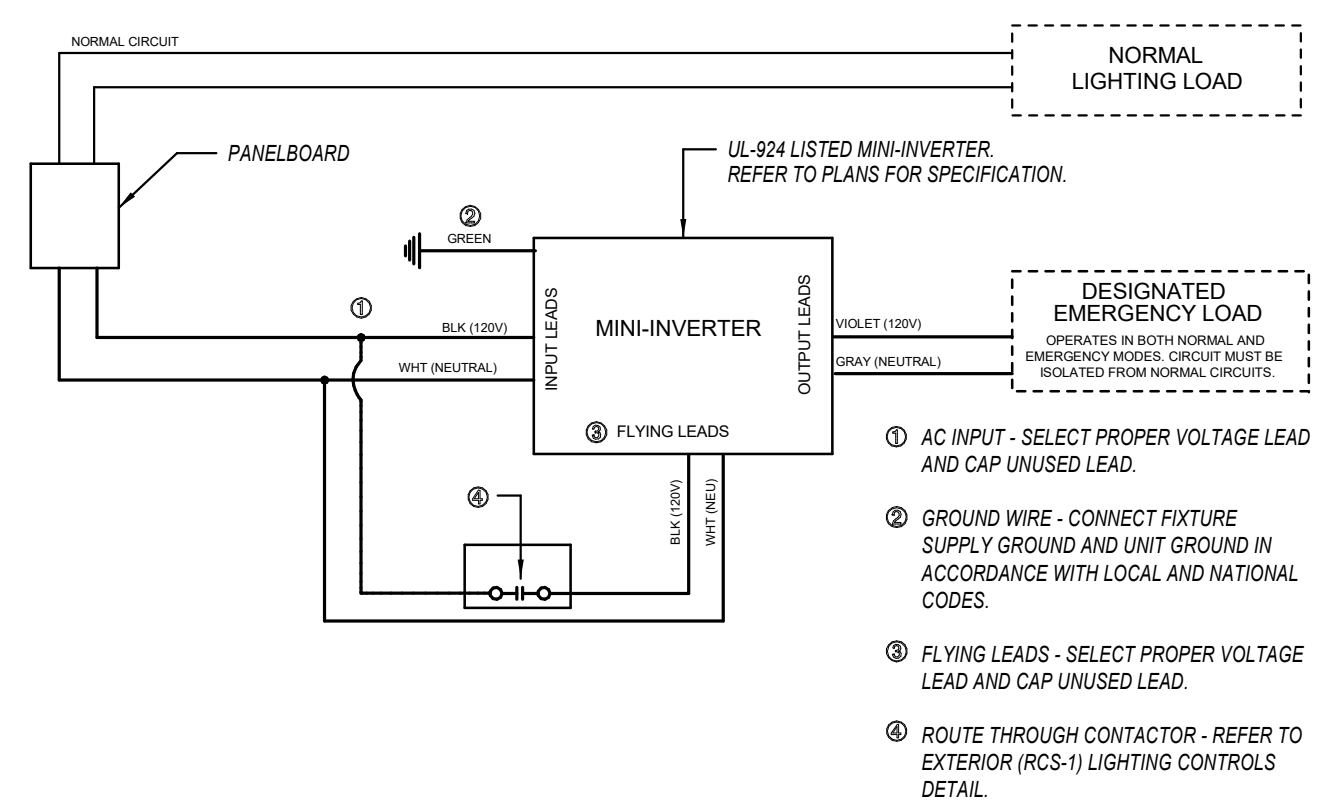
DATA OUTLET DETAIL NOT TO SCALE 631-02



KITCHEN EQUIPMENT 'OFF' CONTROL (RCS-1) NOT TO SCALE 650-03



RELAY PANEL / CONNECTION DETAIL NOT TO SCALE 613-10



MINI-INVERTER WIRING DIAGRAM NOT TO SCALE 614-01



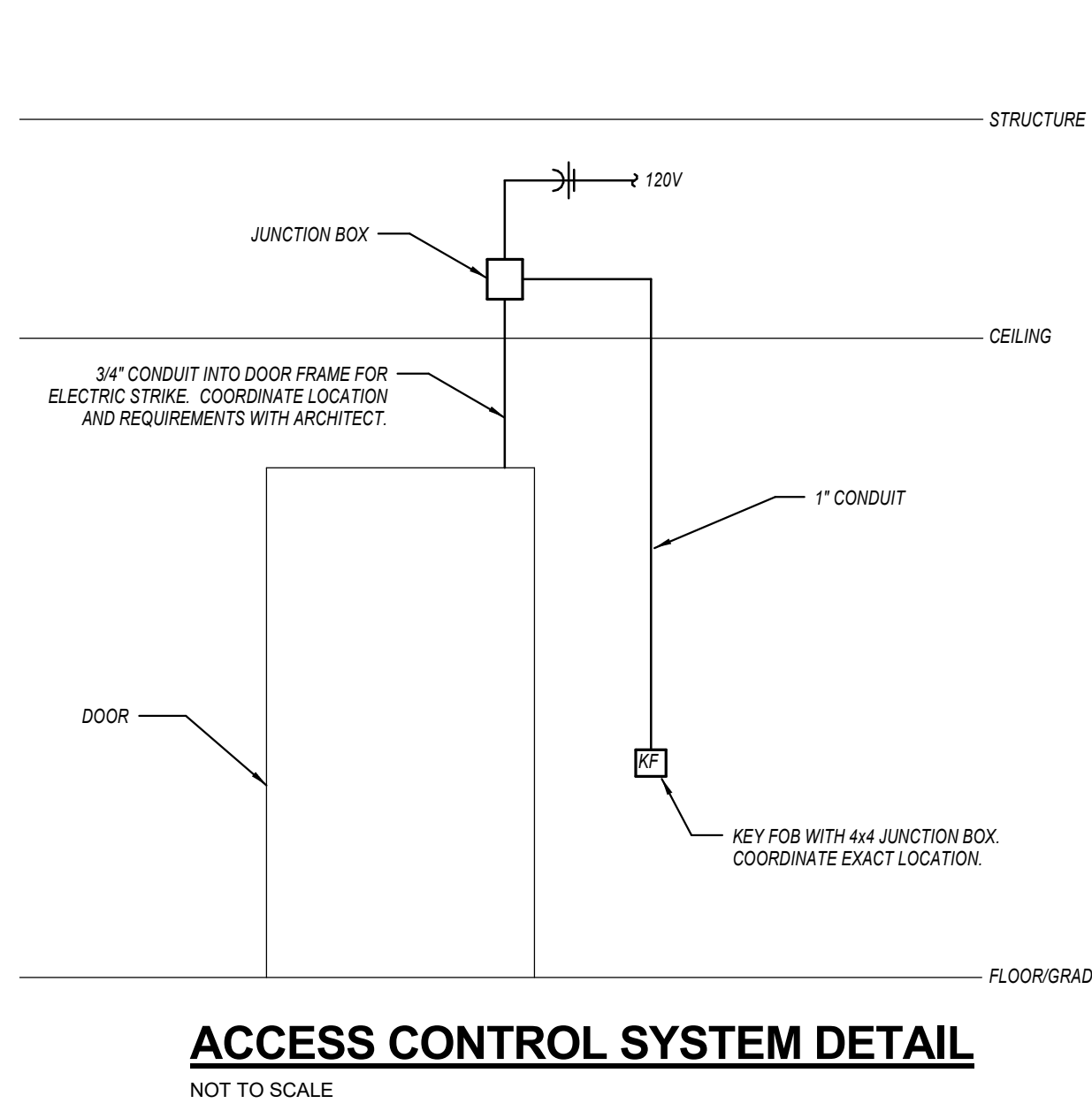
Kansas Certificate of Authority #A-516

Civil Engineer Kaw Valley Engineering KS Certificate of Authority #29241 1627 Sunflower Lane Salina, KS 67401 785-823-3400

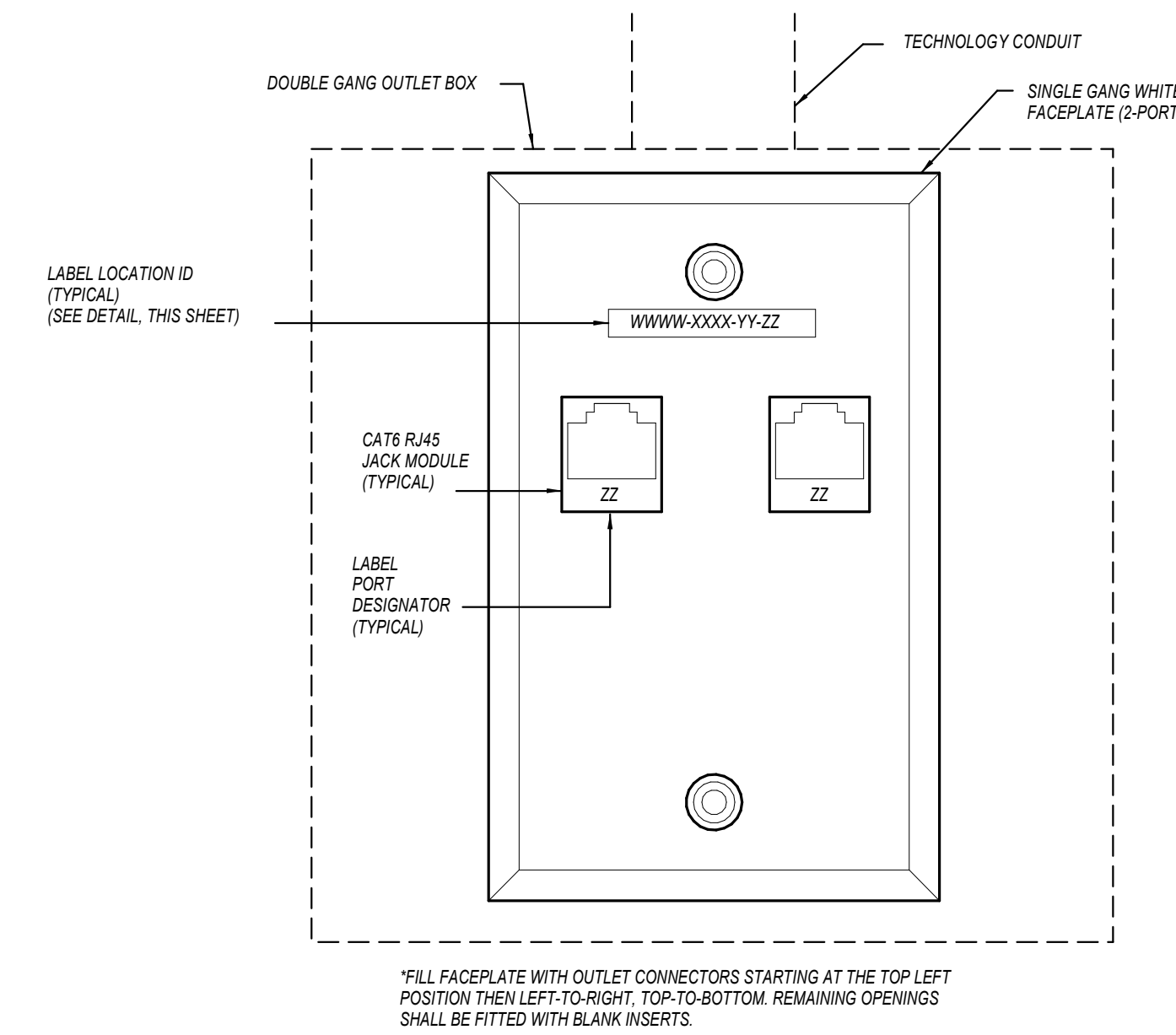
Structural Engineer Bob D. Campbell & Co. KS Certificate of Authority #000442 4338 Bellview Kansas City, MO 64111 816-778-7149

M/E/P Engineer PKMR Engineers, Inc. KS Certificate of Authority #E-1682 13300 W. 98th St. Lenexa, KS 66215 913-492-2400

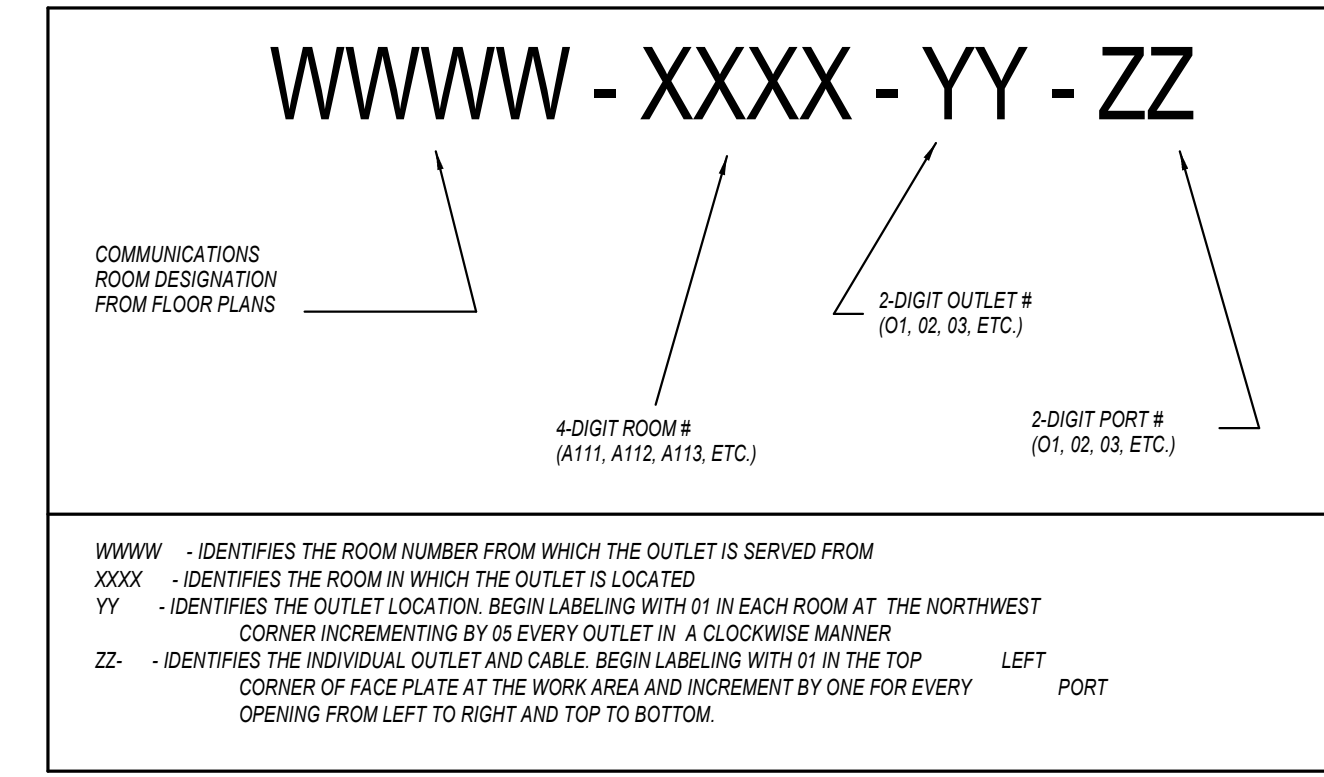
JOB NUMBER 22003



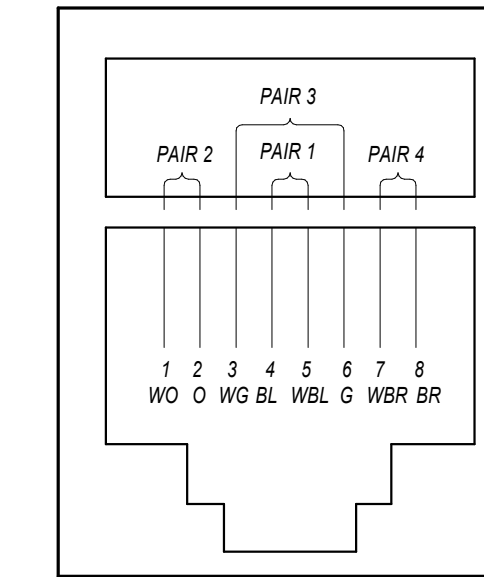
ACCESS CONTROL SYSTEM DETAIL NOT TO SCALE



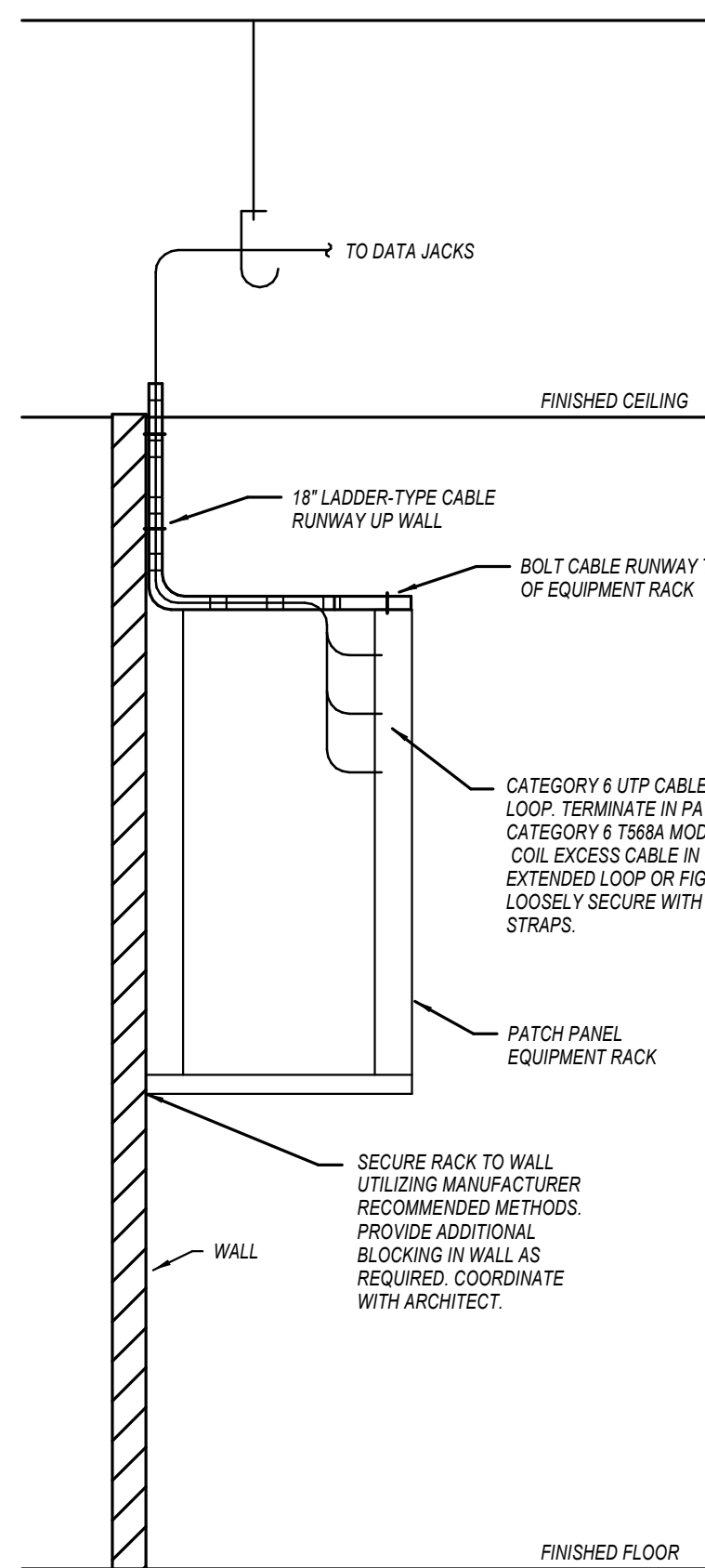
WALL MOUNTED DATA OUTLET NO SCALE



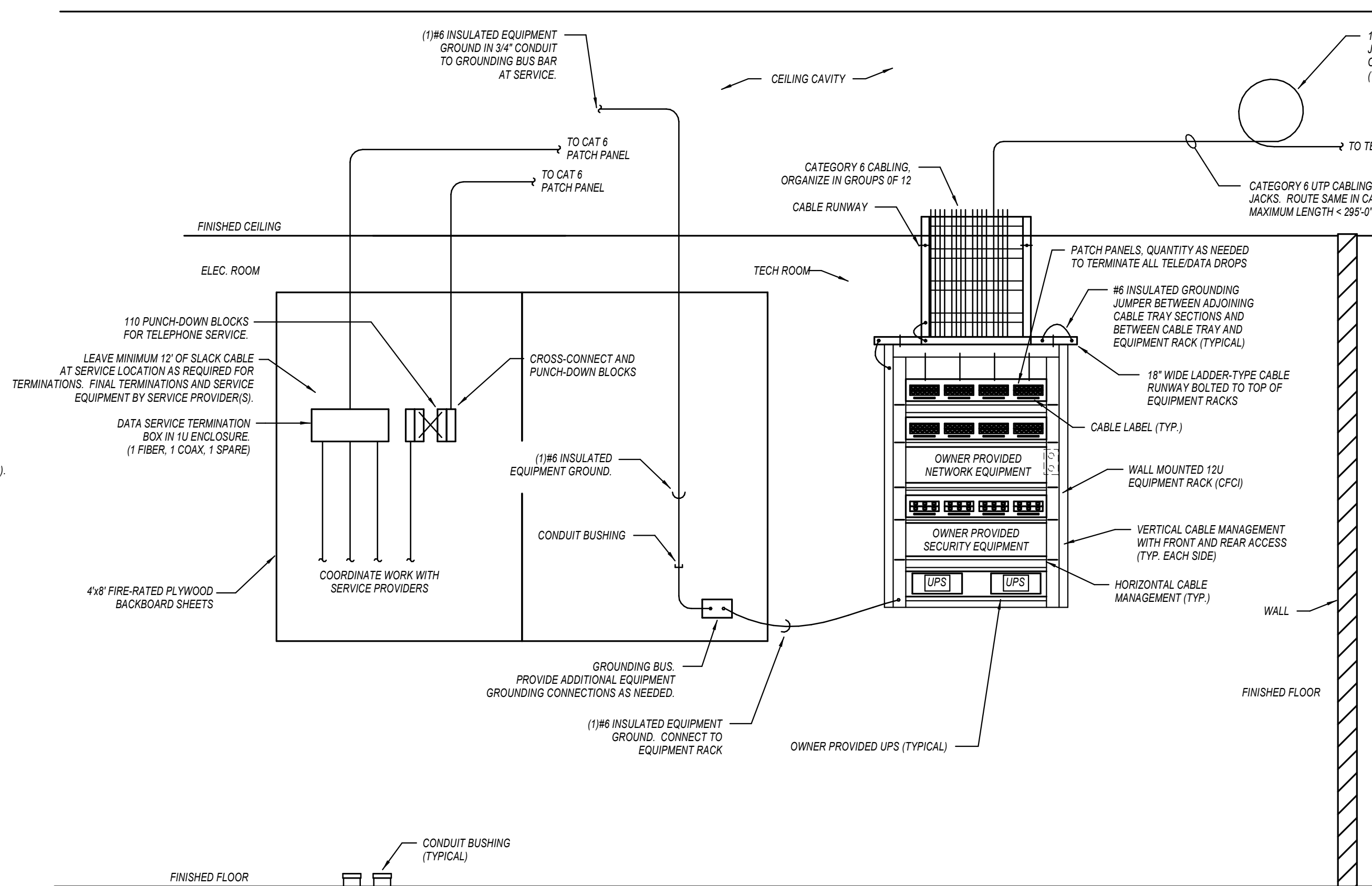
TYPICAL LABELING SCHEME (HORIZONTAL COMPONENTS) - TELECOM NO SCALE



EIGHT POSITION JACK PIN/PAIR NO SCALE



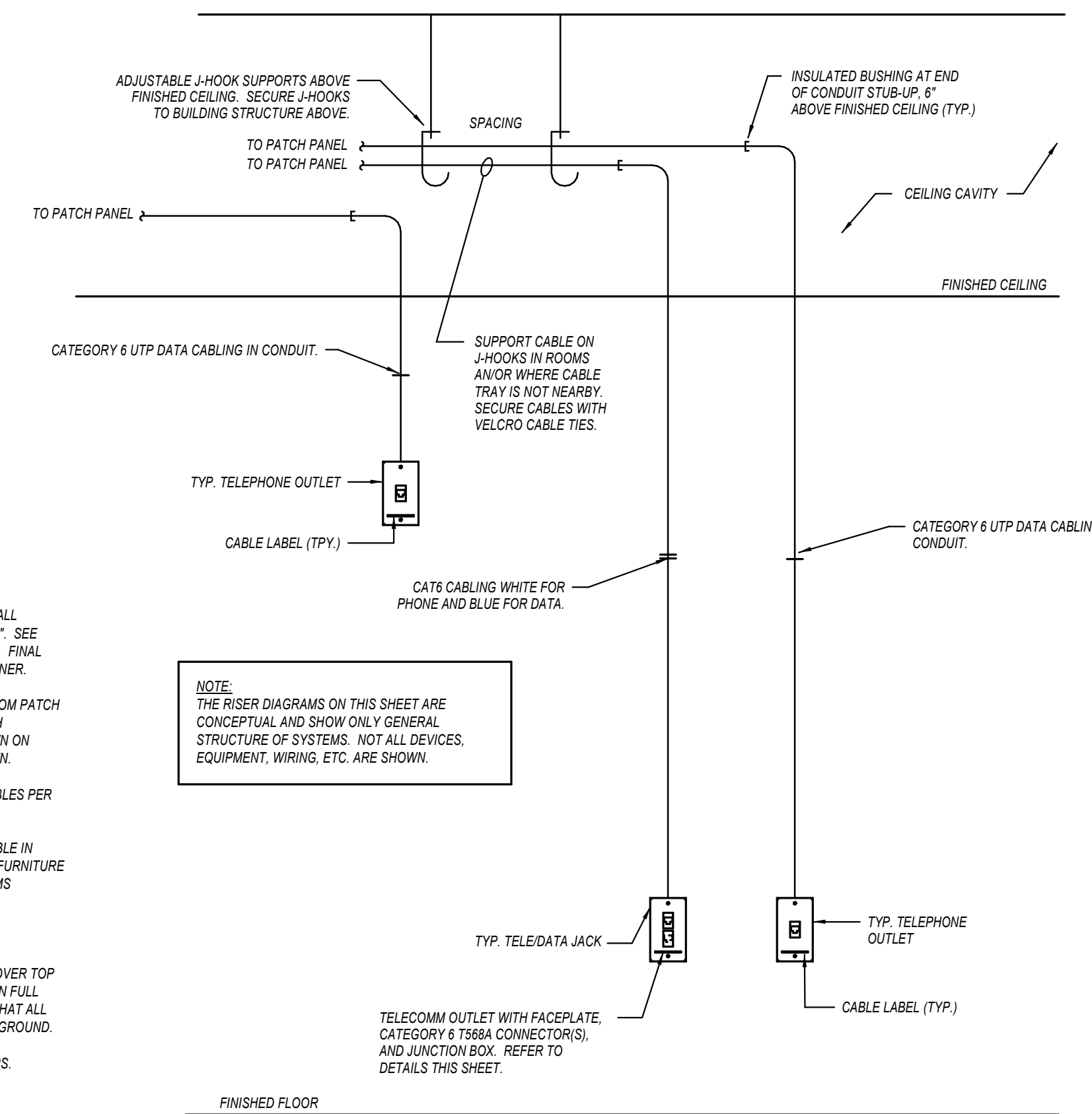
SIDE ELEVATION FOR PATCH PANEL EQUIPMENT RACK



FRONT ELEVATION AT RACK

RISER NOTES:

- 1. ELECTRICAL CONTRACTOR IS RESPONSIBLE FOR ALL QUANTITIES AND CABLING, I.E. "RACKS TO JACKS". SEE SPECIFICATIONS FOR ADDITIONAL INFORMATION. FINAL CONNECTIONS TO NETWORK EQUIPMENT BY OWNER.
2. PROVIDE CATEGORY 6 PLenum RATED CABLE FROM PATCH PANELS IN NETWORK EQUIPMENT RACK TO EACH WORKSTATION AND DATA OUTLET WHERE SHOWN ON PLANS. SUPPORT AND ROUTE CABLES AS SHOWN.
3. PROVIDE TWO 7'-0" LONG CATEGORY 6 PATCH CABLES PER DATA DROP INSTALLED.
4. IF SYSTEMS FURNITURE IS INSTALLED, ROUTE CABLE IN FURNITURE CHASES LOCATED IN THE SYSTEMS FURNITURE PANELS. DO NOT ROUTE CABLES IN THE SYSTEMS FURNITURE ELECTRIFIED BUS.
5. LABEL ALL EQUIPMENT AND TERMINATIONS.
6. CABLE RUNWAY TO COME DOWN WALL AND RUN OVER TOP OF EQUIPMENT RACKS. CABLE RUNWAY TO RUN FULL LENGTH ABOVE EQUIPMENT RACKS. ENSURE THAT ALL SECTIONS OF CABLE TRAY ARE CONNECTED TO GROUND.
7. COORDINATE ALL WORK WITH SERVICE PROVIDERS.



TYPICAL LOCATIONS

TELECOMMUNICATIONS RISER DIAGRAM

NOT TO SCALE

SALINA FIRE STATION #4

EAST CRAWFORD STREET & MARKLEY ROAD SALINA, KS 67401 CITY OF SALINA



BID SET DOCUMENTS

ISSUE DATE 09/09/2024

No. Description Date

WSKF, Inc. © 2024



PEARSON KENT MCKINLEY RAFF ENGINEERS, LLC 13300 W 98TH STREET LENEXA, KS 66215 913.492.2400 WWW.PKMRENG.COM

ELECTRICAL DETAILS

E5.03