

# Commercial Building on Side Road

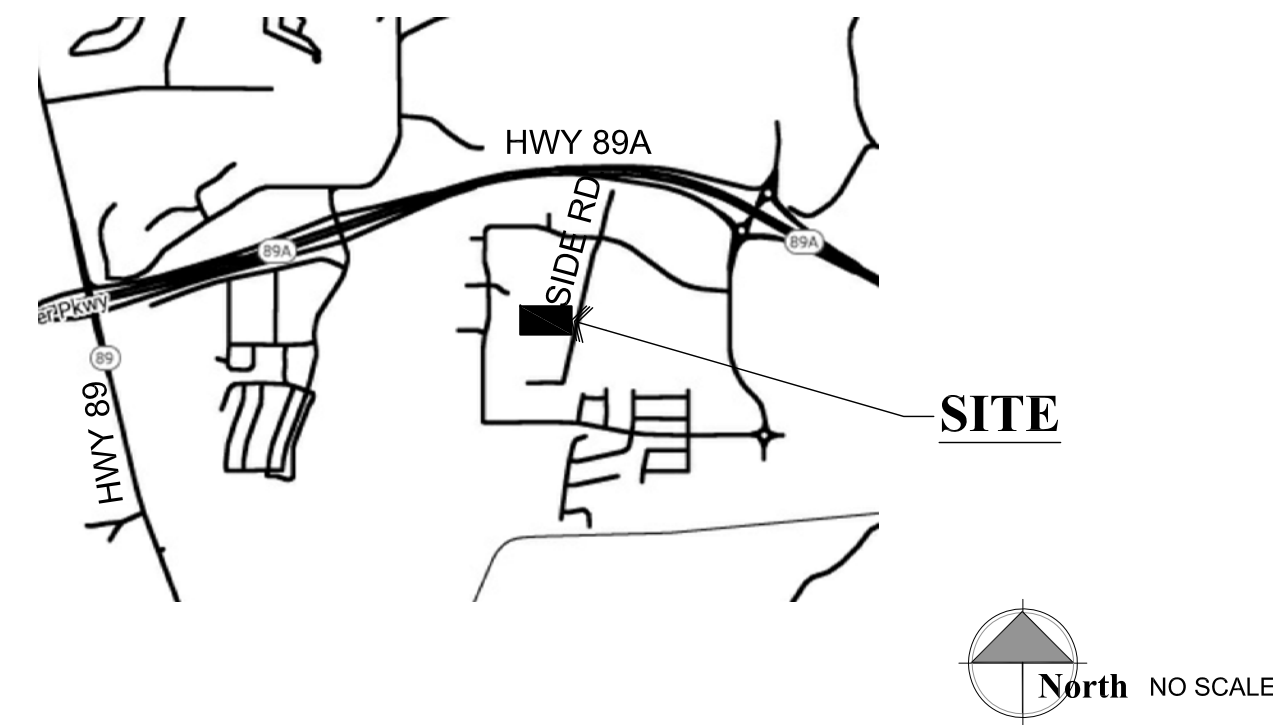
PRESCOTT, ARIZONA

REVISIONS	BY

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W. Alan Kenson  
 25646 W. ALAN KENSON  
 P.O. Box 11593  
 Prescott, AZ 86301  
 ARIZONA ARCHITECT  
 REG. NO. 0710143  
 EXPIRES: 6/30/24

## Area Map



## Project Information

**Owner:** Deo Iuvante L.L.C.  
**Contact:** Scott Hicks  
 drscottpusd@gmail.com  
**Prepared by:** W. Alan Kenson & Associates, P.C.  
 P.O. Box 11593  
 Prescott, AZ 86304  
**Contact:** Alan Kenson, 928-443-5812  
 waka@cableone.net  
**Jobsite Address:** 5416 Side Road  
 Prescott, AZ  
**Parcel Number:** 103-01-038  
**Lot Area:** .39 Acres  
**Zoning:** IL  
**Current Code:** 2018 International Building Code  
**Proposed Building:** 2,765 S.F.  
**Occupancy:** U - Utility and Miscellaneous  
**Construction Type:** Type II-B

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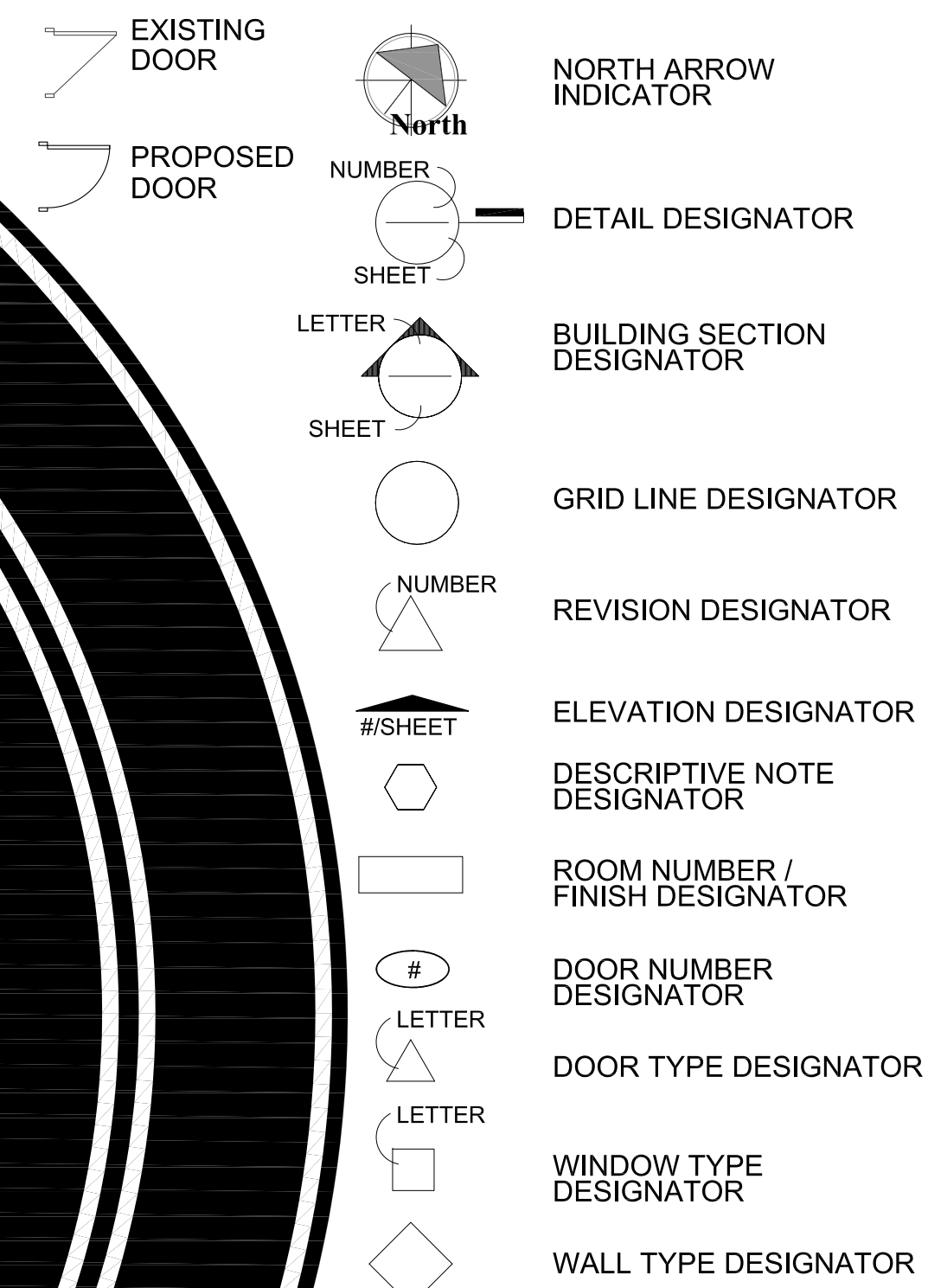
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NOTE: METAL BUILDING PLANS SUBMITTED UNDER SEPARATE COVER

## Graphic Standards



## Project Description

SCOTT HICKS, IS PROPOSING TO BUILD A 2,625 S.F. METAL BUILDING ON HIS EXISTING PROPERTY. IT WILL BE USED AS A PERSONAL STORAGE GARAGE WITH A PORTION TO BE LEASED OUT.

### Architect:

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**ARCHITECTURE & PLANNING**



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**DRAWING:** Cover Sheet

**PROJECT:** Commercial Building on Side Rd.  
 5416 Side Rd.  
 Prescott, AZ 86301

**APN:** 103-01-038

DRAWN BY	L.O.
CHECKED BY	W.A.K.
DATE	June 30th, 2023
JOB NO.	777
SHEET	

**CS1**

**EXIT SIGNS:**

- PROVIDE A 6"x9" BLUE TACTILE, BRAILLE, 'EXIT' SIGN AS MANUFACTURED BY 'SIMPLY EXIT SIGNS (#SE-1980)' OR EQUAL COMPLYING WITH ICC/ANSI A117.1 SECTION 703.1 AND IBC SECTIONS 1013 & 1111, ADJACENT TO EACH DOOR TO AN EXIT PASSAGEWAY AND THE EXIT DISCHARGE.

**FIRE DEPARTMENT NOTES:**

- FIRE EXTINGUISHERS SHALL BE PROVIDED IN ACCORDANCE WITH THE INTERNATIONAL FIRE CODE (IFC) AND NFPA 10.
- HAZARDOUS MATERIAL INVENTORY STATEMENTS (HMIS) MUST BE COMPLETED AND SUBMITTED ALONG WITH THE MATERIAL SAFETY DATA SHEETS (MSDS) PROVIDED BY THE MANUFACTURER OF THE PRODUCTS AND MATERIALS FOR ALL HAZARDOUS MATERIALS ONCE THE OCCUPANTS OF THE SUITES ARE IDENTIFIED. THE HMIS FORM MAY BE FOUND ON THE CITY WEB SITE AT WWW.PRESCOTT-AZ.GOV/DOCUMENTS.
- DOOR HARDWARE TO MEET 2018 IFC AND IBC REQUIREMENTS FOR EGRESS.
- PROVIDE ADDRESS NUMBERS IN A POSITION THAT IS PLAINLY LEGIBLE AND VISIBLE FROM THE STREET FRONTING THE PROPERTY. THESE NUMBERS SHALL BE A MINIMUM OF 6 INCHES WITH CONTRASTING BACKGROUND.

**Plumbing Calculations**

OCCUPANCY CLASSIFICATION	OCCUPANCY COUNT	WATER CLOSETS	LAVATORIES	SERVICE SINK
STORAGE	9	.09	.09	
TOTAL REQUIRED		.09	.09	
TOTAL PROVIDED		1	1	1

**Egress Legend:**

- EXIT ACCESS
- (A) ACCESSORY USE (NO OCCUPANCY)
- XX ROOM OCCUPANCY LOAD
- (XX) SUBTOTAL OCCUPANCY LOAD
- XX OCCUPANCY TOTAL
- XX REQUIRED EXIT WIDTH (FACTOR = 0.2)
- XX PROVIDED EXIT WIDTH
- # WORST CASE TRAVEL DISTANCE TO COMMON PATH OF EGRESS TRAVEL

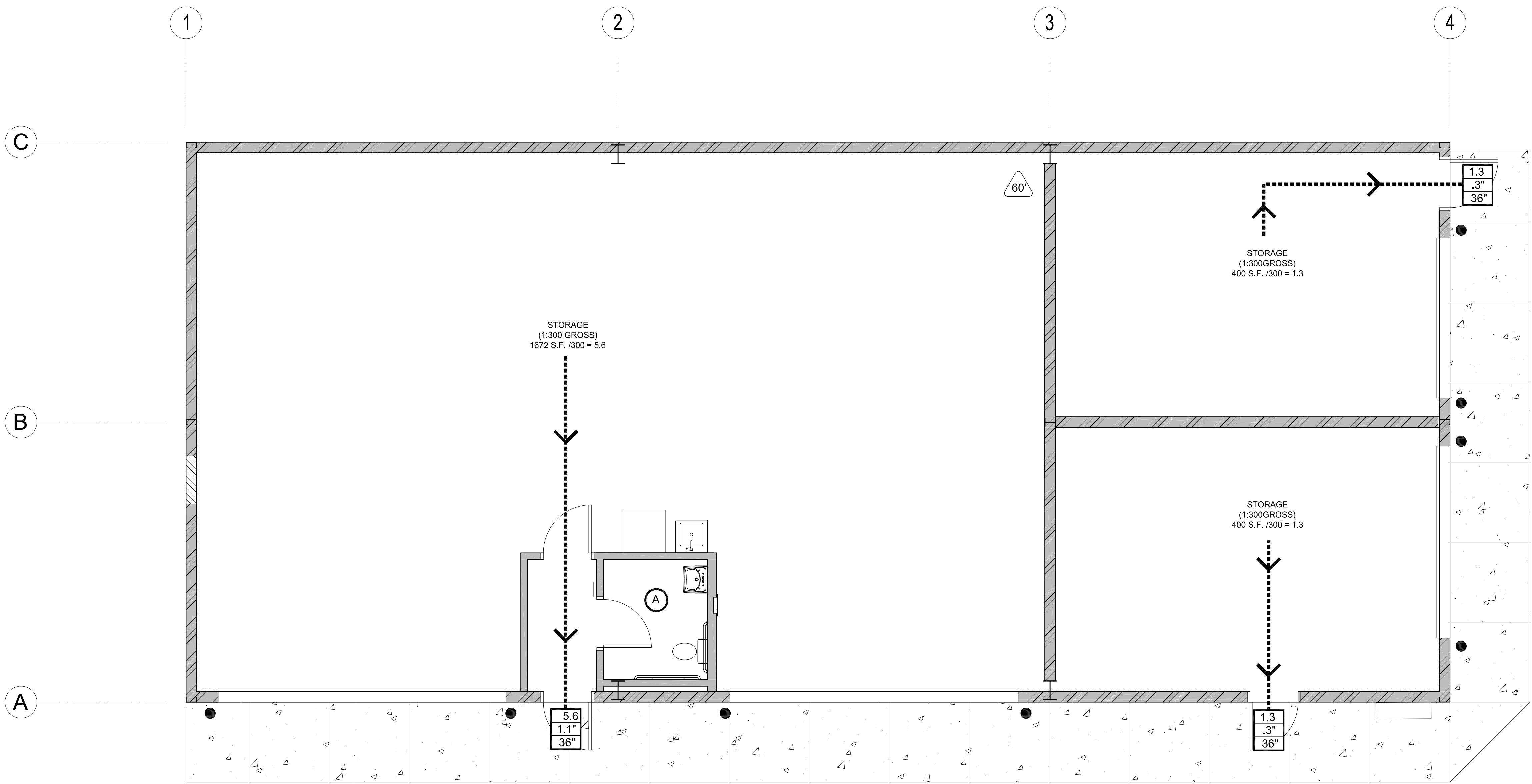
FUNCTION OF SPACE	OCCUPANT LOAD FACTOR
STORAGE	300 GROSS

**Occupant load**

NOTE: GROSS SQUARE FOOTAGE LISTED BELOW DOES NOT INCLUDE ACCESSORY AREAS.

STORAGE AREA	2,472 SQ. FT.	8.24 OCCUPANTS
TOTAL:	2,472 SQ. FT.	8.24 OCCUPANTS

- Accessibility Notes**
- ACCESS TO THESE FACILITIES SHALL BE AT PRIMARY ENTRANCES.
  - THE SLOPE OF PUBLIC WALKS SHALL NOT EXCEED A MAXIMUM CROSS SLOPE OF 2%.
  - WALKING SURFACES GREATER THAN 2% SHALL BE SLIP RESISTANT.
  - PROVIDE A 44"x60" MINIMUM LANDING ON THE STRIKE SIDE OF THE ENTRANCE DOOR WITH 44" MINIMUM WIDTH IN THE DIRECTION OF TRAVEL.
  - WALLS SHALL EXTEND 18" TO THE SIDE OF THE STRIKE EDGE OF A DOOR OR GATE THAT SWINGS TOWARDS THE OCCUPANT.
  - RAMP SHALL HAVE A NON-SLIP SURFACE.
  - RAMP SHALL BE A MINIMUM OF 36" WIDE.
  - EVERY REQUIRED EXIT DOORWAY SHALL BE SIZED FOR A DOOR NOT LESS THAN 36" WIDE BY NOT LESS THAN 6'-8" HIGH CAPABLE OF OPENING 90 DEGREES AND MOUNTED SO THE CLEAR WIDTH OF THE EXIT WAY IS 32" MINIMUM.
  - THRESHOLDS TO BE A MAXIMUM OF 1/4" ABOVE ADJACENT FLOOR FINISH. ONE-HALF INCH THRESHOLD MAY BE USED IF BEVELED PER A.D.A. STANDARDS.
  - MAXIMUM EFFORT TO OPERATE A DOOR SHALL NOT EXCEED 5 POUNDS.
  - THE BOTTOM 10 INCHES OF ALL DOORS EXCEPT AUTOMATIC AND SLIDING DOORS SHALL HAVE A SMOOTH UNINTERRUPTED SURFACE.
  - PROVIDE LEVER TYPE HARDWARE, PANIC BARS, PUSH AND PULL ACTIVATING BARS, OR OTHER HARDWARE DESIGNED TO PROVIDE PASSAGE WITHOUT REQUIRING THE ABILITY TO GRASP THE OPENING HARDWARE. (30" TO 44" A.F.F.)



**Occupancy / Egress Plan** Scale: 1/4"=1'-0" **Plan North**

REVISIONS BY

NO.	DESCRIPTION	DATE	BY

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**ARCHITECTURE & PLANNING**

**DRAWING:** Occupancy / Egress Plan

**PROJECT:** Commercial Building on Side Rd.  
5416 Side Rd.  
Prescott, AZ 86301

**APN:** 105-01-038

DRAWN BY: L.O.  
CHECKED BY: W.A.K.  
DATE: June 30th, 2023  
JOB NO.: 777  
SHEET



**OWNER:**  
 PER THE YAVAPAI COUNTY INTERACTIVE MAPPING APPLICATION AND THE WARRANTY DEED RECORDED AS INSTRUMENT NO.: 2021-0043908, Y.C.R.O. APN. 103-01-038 IS OWNED BY DEO IUVANTE LLC.

**NOTE:**  
 THIS MAP DOES NOT REPRESENT A LAND BOUNDARY SURVEY. THE LOT BOUNDARY LINES, AS SHOWN ARE PER THE WARRANTY DEED LISTED ABOVE, AND THE LIMITED EXISTENT PARCEL CORNER MONUMENTS FOUND IN THE FIELD BY NEXUS SOUTHWEST LLC.

THE CONTOUR INTERVAL DEPICTED HEREON IS 1'.

THE HORIZONTAL AND VERTICAL DATUM FOR THIS SURVEY IS THE CITY OF PRESCOTT SURVEY DATUM.

NO TITLE REPORT FURNISHED, THEREFORE ALL EASEMENTS OF RECORD MAY NOT BE SHOWN HEREON.

UTILITIES AS SHOWN HEREON ARE BASED ON PHYSICALLY APPARENT ABOVE GROUND APPURTENANCES AND LIMITED UTILITY LOCATE MARKINGS BY OTHERS.

**PROJECT BENCH MARK:**  
 DATUM: NAVD-88 (CITY OF PRESCOTT SURVEY DATUM)

ELEVATION DEPICTED HEREON ARE BASED ON GPS OBSERVATIONS UTILIZING THE CITY OF PRESCOTT GPS BASE STATION AND THE GEOID-99 MODEL.

SEE THE TEMPORARY SITE BENCH MARKS PLOTTED ON SHEET 4 PER NEXUS SOUTHWEST LLC.

**BASIS OF BEARING:**  
 THIS TOPOGRAPHIC SURVEY AND MEASURED BEARINGS, WHERE SHOWN HEREON, ARE BASED ON THE CITY OF PRESCOTT'S SURVEY DATUM. THE LINE AS SHOWN HAS BEEN SELECTED AS THE LOCAL BASIS OF BEARING. THE CITY OF PRESCOTT SURVEY DATUM IS ON FILE WITH THE CITY OF PRESCOTT PUBLIC WORKS DEPARTMENT AND PUBLISHED ON THE CITY OF PRESCOTT WEBSITE AT WWW.PRESCOTT-AZ.GOV.

**FEMA FLOODPLAIN:**  
 PER FEMA FIRM PANEL 04025C1693H DATED 03/06/2018, SUBJECT PROPERTY LIES IN ZONE X.

**REGISTRANTS:**  
 THESE PLANS WERE PREPARED UNDER THE DIRECTION OF GARY R. KELLEY, PE 22880 AND CHRISTOPHER J. KIMBALL, RLS 48100.

**TOPOGRAPHIC SURVEY NOTE:**  
 THE TOPOGRAPHIC INFORMATION SHOWN HEREON IS PER A TOPOGRAPHIC SURVEY PERFORMED BY NEXUS SOUTHWEST LLC., MAY 2021. SUPPLEMENTAL OFFSITE TOPOGRAPHIC INFORMATION SHOWN HEREON PERFORMED BY KELLEY/WISE ENGINEERING INC., APRIL 2023.

- LEGEND:**
- FIRE HYDRANT
  - WATER VALVE
  - WATER METER BOX
  - RPZ ASSEMBLY
  - SEWER CLEANOUT
  - SEWER BACKWATER VALVE
  - SANITARY SEWER MANHOLE
  - EXISTING TREE
  - EXISTING LIGHT
  - EXISTING MAILBOX
  - EXISTING SIGN
  - EXISTING POWER POLE
  - 8" S SEWER LINE (SIZE AS NOTED)
  - 8" W WATER LINE (SIZE AS NOTED)
  - G GAS LINE
  - E ELECTRIC LINE
  - OHE OVERHEAD ELECTRIC LINE
  - T TELEPHONE LINE
  - 4" F FIRE LINE (SIZE AS NOTED)
  - DESIGN FINISH GRADE
  - EXISTING GRADE CONTOUR

- LEGEND:**
- DENOTES RECORD DIMENSION
  - EXISTING GRADE CONTOUR BY THIS SURVEY. (NAVD-88)
  - ARIZONA DEPARTMENT OF TRANSPORTATION
  - ASSESSOR'S PARCEL NUMBER
  - BOOK
  - BACK WATER VALVE
  - ELEVATION
  - EXISTING
  - FOUND IRON REBAR
  - LAND SURVEYS
  - MAPS AND PLATS
  - PAGE
  - PRESSURE REDUCING VALVE
  - PUBLIC UTILITY EASEMENT
  - RIGHT OF WAY
  - REDUCED PRESSURE ZONE ASSEMBLY
  - SEWER CLEAN OUT
  - SHUT-OFF VALVE
  - SANITARY SEWER MANHOLE
  - YAVAPAI COUNTY RECORDER OFFICE
  - CENTERLINE
  - EASEMENT LINE
  - PARCEL BOUNDARY LINE
  - RIGHT-OF-WAY LINE
  - TOE OF SLOPE
  - TOP OF SLOPE
  - EX. POWER POLE
  - LIGHT POLE
  - EX. CONTROL POINTS
  - EX. SIGN
  - EX. FIRE HYDRANT

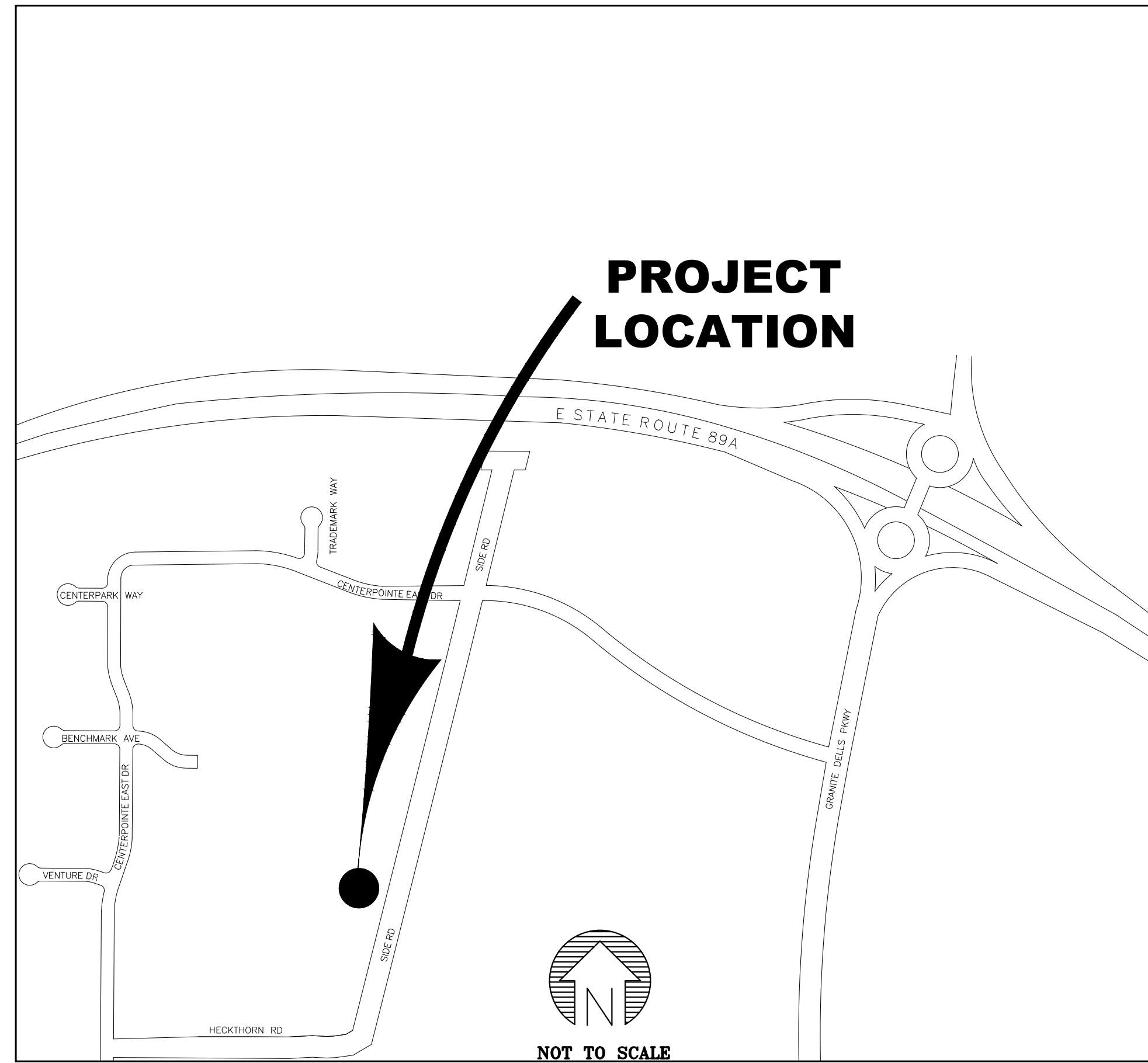
**SPECIAL NOTE:**  
 THE CITY OF PRESCOTT STANDARD DETAILS AND SPECIFICATIONS MEET MINIMUM DESIGN REQUIREMENTS OF THE EQUIVALENT MAG SPECIFICATIONS AND STANDARD DETAILS.  
 APPROVED TRAFFIC CONTROL PLAN AND R.O.W. PERMIT MUST BE OBTAINED FROM PUBLIC WORKS PRIOR TO BEGINNING WORK IN THE R.O.W.

- ABBREVIATION LEGEND:**
- BOC BACK OF CURB
  - EC EXISTING CONCRETE ELEVATION
  - EG EXISTING GROUND ELEVATION
  - EP EXISTING PAVEMENT
  - ETC EXISTING TOP OF CURB
  - EX EXISTING
  - FC NEW FINISHED CONCRETE ELEVATION
  - FF NEW FINISHED FLOOR ELEVATION
  - FG NEW FINISHED GRADE ELEVATION
  - FL NEW FLOWLINE ELEVATION
  - G/B GRADE BREAK
  - H/P HIGH POINT
  - INV INVERT
  - L/P LOW POINT
  - P PAVEMENT OR FINISHED SURFACE
  - PUE PUBLIC UTILITY EASEMENT
  - ROW RIGHT-OF-WAY
  - TC NEW TOP OF CURB ELEVATION
  - TYP TYPICAL
  - TW NEW TOP OF WALL ELEVATION
  - WM WATER METER

# COMMERCIAL BUILDING ON SIDE ROAD

APN: 103-01-038  
 5416 SIDE ROAD

LOCATED IN A PORTION OF SECTION 31, T15N, R1W  
 AND A PORTION OF SECTION 31, T15N, R1W,  
 GILA AND SALT RIVER MERIDIAN,  
 YAVAPAI COUNTY, PRESCOTT, ARIZONA



PROJECT VICINITY MAP

APPROVED BY \_\_\_\_\_

CITY ENGINEER \_\_\_\_\_ Date \_\_\_\_\_

UTILITIES MANAGER \_\_\_\_\_ Date \_\_\_\_\_

## UTILITY INFORMATION

COMPANY	CONTACT	TELEPHONE
ARIZONA PUBLIC SERVICE CO. 6672 CORSAIR AVE PRESCOTT, ARIZONA 86301	MICHELLE CURLEY	(928)443-6697
CENTURYLINK 1445 MASONRY WAY PRESCOTT, ARIZONA 86301	DELL HOWARD	(520)838-3050
UNISOURCE GAS CO. 6405 WILKINSON DRIVE PRESCOTT, ARIZONA 86301	JEFF BROWN	(928)771-7226
SPARKLIGHT 3801 TOWER RD. PRESCOTT, ARIZONA 86301	DOUG HAMILTON	(928)910-3096
CITY OF PRESCOTT UTILITIES 433 NORTH VIRGINIA ST. PRESCOTT, ARIZONA 86301	STEVE OLFERS	(928)777-1130

BLUE STAKE CALL TWO WORKING DAYS BEFORE YOU DIG  
 1-800-STAKE-IT  
 outside Maricopa County

CALL TWO WORKING DAYS BEFORE YOU DIG  
 1-800-STAKE-IT  
 (OUTSIDE MARICOPA COUNTY)

**NOTE:**  
 CONTRACTOR TO VERIFY LOCATION AND ELEVATION OF EXISTING UTILITIES PRIOR TO CONSTRUCTION. CONTRACTOR IS RESPONSIBLE FOR COORDINATING ANY NECESSARY UTILITY RELOCATION WITH THE APPLICABLE UTILITY.

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7	C-301	PROFILES AND SECTIONS
8-9	C-501-502	TYPICAL DETAILS

## RECORD DRAWING CERTIFICATION

I HEREBY CERTIFY, TO THE BEST OF MY KNOWLEDGE, INFORMATION AND BELIEF, THAT THIS PROJECT HAS BEEN COMPLETED IN SUBSTANTIAL CONFORMANCE WITH THE APPROVED PLANS, SPECIFICATIONS AND REFERENCED STANDARDS, EXCEPT AS SHOWN HEREON; THAT THESE AS-BUILT PLANS REFLECT THE POSITION OF CONSTRUCTED IMPROVEMENTS BASED ON FIELD MEASUREMENTS; AND THAT THE MATERIALS USED IN CONSTRUCTION ARE AS SHOWN BASED ON FIELD OBSERVATION AND TEST RESULTS.

THIS CERTIFICATION DOES NOT WARRANT MATERIALS, WORKMANSHIP, METHODS OF CONSTRUCTION, OR OTHER ITEMS AFFECTING THE WARRANTY OF THIS PROJECT, TO THE CITY OF PRESCOTT. USERS OF THIS INFORMATION ARE ADVISED TO OBTAIN INDEPENDENT VERIFICATION OF ACTUAL CONDITIONS.

REGISTERED PROFESSIONAL ENGINEER (CIVIL) \_\_\_\_\_ DATE \_\_\_\_\_

## PUBLIC IMPROVEMENT QUANTITIES\*

\*SEE GENERAL NOTE 6 SHEET C-002

ITEM NO.	ITEM DESCRIPTION	ESTIMATED UNIT QUANTITY
<b>WATER MAIN IMPROVEMENTS</b>		
1	8" CLASS 350 DIP WATER MAIN	210 LF
3	8"x8"x8" TAPPING SLEEVE W/ 8" G.V.B.&C.	1 EA
4	FIRE HYDRANT COMPLETE W/ TEE AND 6" G.V.B.&C.	1 EA
5	1" WATER SERVICE BOX AND COVER	1 EA

1/2" = 1'  
 DATE \_\_\_\_\_  
 REVISION \_\_\_\_\_  
 NO. \_\_\_\_\_  
**KELLEY/WISE ENGINEERING, INC.**  
 146 GROVE AVENUE  
 PRESCOTT, ARIZONA 86301  
 (928) 771-1730  
 FAX 778-2220  
 gkelley@kelley-wise.com  
 COMMERCIAL BUILDING ON SIDE ROAD  
 APN: 103-01-038  
 5416 SIDE ROAD  
 PRESCOTT, AZ  
 COVER  
 REGISTERED PROFESSIONAL ENGINEER (CIVIL)  
 GARY R. KELLEY  
 5/8/23  
 23-014  
**C-001**  
 1 OF 9  
 MAY, 2023  
 COMMERCIAL BUILDING ON SIDE ROAD



- ALL GRADING SHALL CONFORM TO THE CURRENT CITY ADOPTED EDITION OF THE INTERNATIONAL BUILDING CODE, AND CITY OF PRESCOTT LAND DEVELOPMENT CODE (REFERENCE CITY OF PRESCOTT STANDARDS).
- ALL PROVISIONS OF THE PRELIMINARY SOILS REPORT PREPARED BY \_\_\_\_\_ ETC \_\_\_\_\_ DATED APRIL 27, 2023, SHALL BE COMPLIED WITH DURING OPERATIONS.
- THIS PLAN IS FOR GRADING PURPOSES ONLY. APPROVAL OF THIS PLAN DOES NOT CONSTITUTE APPROVAL OF DRIVEWAY LOCATIONS OR SIZES, PARKING LOT LAYOUT, SEWER AND WATER FACILITIES, BUILDING LOCATIONS, OFF-SITE DRAINAGE FACILITIES OR OTHER ITEMS NOT RELATED DIRECTLY TO THE BASIC GRADING OPERATION.
- CERTIFICATION FROM THE REGISTERED CIVIL ENGINEER AND SOILS/GEOLOGICAL ENGINEER STATING THAT THE ROUGH GRADING HAS BEEN COMPLETED PER THE APPROVED PLAN, AND A COMPACTION REPORT FROM THE SOILS ENGINEER ON ANY FILL AREAS THAT ARE REQUIRED SHALL BE PROVIDED PRIOR TO BUILDING PERMITS BEING ISSUED.
- PARTIES NAMED ON ADOPTED NOTICE OF INTENT (NOI) ARE RESPONSIBLE FOR EROSION, DUST, MUD, SILT, DEBRIS, AND TEMPORARY DRAINAGE CONTROL DURING GRADING OPERATIONS AND MAY BE REQUIRED TO PROVIDE A SWPPP.
- ANY ON-SITE RETAINING WALLS WILL REQUIRE APPROVAL AS PART OF THESE PLANS. ANY NECESSARY RETAINING WALLS ON THE PERIMETER OF THIS SITE MAY BE REQUIRED TO BE IN PLACE AND APPROVED BY THE CITY BUILDING DEPARTMENT PRIOR TO THE START OF GRADING. A SEPARATE PLAN WITH REQUIRED STRUCTURAL CALCULATIONS MAY BE REQUESTED FOR RETAINING WALLS.
- ANY INFRASTRUCTURE CONSTRUCTED IN THE PUBLIC RIGHT OF WAY WILL REQUIRE SEPARATE PLAN APPROVAL AND INSPECTION FROM THE CITY ENGINEER.
- ANY WALLS, FENCES, STRUCTURES AND/OR APPURTENANCES ADJACENT TO THIS PROJECT SHALL BE PROTECTED IN PLACE. IF GRADING OPERATIONS DAMAGE OR ADVERSELY AFFECT SAID ITEMS IN ANY WAY, THE CONTRACTOR AND/OR DEVELOPER IS RESPONSIBLE FOR WORKING OUT AN ACCEPTABLE SOLUTION TO THE SATISFACTION OF THE AFFECTED PROPERTY OWNER(S).
- THE CONTRACTOR/DEVELOPER IS RESPONSIBLE FOR ENSURING THAT RETAINING WALLS DO NOT INTERFERE WITH PROVISION OF UTILITIES. WALLS MUST BE CONSTRUCTED ON SITE AND OUTSIDE OF THE RIGHT OF WAY. THIS SHALL INCLUDE THE FOOTINGS.
- IT IS THE CONTRACTOR'S RESPONSIBILITY TO ENSURE THAT COMPACTION HAS BEEN ATTAINED ON THE ENTIRE GRADING SITE IN ACCORDANCE WITH THE GENERAL ENGINEERING PLAN, INCLUDING FILL AREAS OUTSIDE THE BUILDING PADS AND ON ALL FILL AREAS. COMPACTION SHALL BE CERTIFIED BY THE SOILS ENGINEER.
- CITY APPROVAL OF PLANS DOES NOT RELIEVE THE DEVELOPER FROM THE RESPONSIBILITY FOR CORRECTION OR ERROR OR OMISSION DISCOVERED DURING CONSTRUCTION. UPON REQUEST, THE REQUIRED PLAN REVISIONS SHALL BE PROMPTLY SUBMITTED TO THE CITY ENGINEER FOR APPROVAL.
- IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO CALL THE CITY ENGINEER'S OFFICE AT (928) 777-1140 FOR ANY REQUIRED CIVIL INSPECTION 24 HOURS PRIOR TO PERFORMING ANY WORK. WORK PERFORMED WITHOUT CALLING FOR INSPECTION MAY BE REJECTED AND, IF REJECTED, SHALL BE REMOVED SOLELY AT THE CONTRACTOR'S EXPENSE.
- NO GRADING SHALL COMMENCE WITHOUT OBTAINING A GRADING PERMIT AND NOTIFYING THE CITY OF PRESCOTT OR DEVELOPER'S GRADING INSPECTOR TO SCHEDULE A PREGRADING MEETING TWO WORKING DAYS PRIOR TO THE START OF WORK.
- PRIOR TO THE START OF GRADING ALL SWPPP MEASURES SHALL BE IN PLACE. ALL DEBRIS, INCLUDING EXISTING STRUCTURES, FOOTINGS, FOUNDATIONS AND RUBBLE SHALL BE REMOVED FROM THE SITE TO THE SATISFACTION OF THE SOILS ENGINEER.
- AFTER REMOVAL OF DEBRIS, ANY EXISTING FILL OR DISTURBED NATURAL SOILS SHALL BE EXCAVATED TO THE SATISFACTION OF THE SOILS ENGINEER.
- THE EXPOSED SOILS SHALL THEN BE INSPECTED BY THE SOILS ENGINEER, AND ANY ADDITIONAL OVER EXCAVATION SHALL THEN BE MADE IN ACCORDANCE WITH THE SOILS ENGINEER'S RECOMMENDATIONS AND AS CONTAINED IN THE SOILS REPORT.
- THE EXPOSED SOILS SHALL THEN BE SCARIFIED TO PROVIDE A BOND WITH NEW FILL, BROUGHT TO PROPER MOISTURE CONTENT AND COMPACTED TO AT LEAST 90% OF THE MAXIMUM DENSITY, AS DETERMINED BY ASTM D1557-09 OR EQUIVALENT. COMPACTION SHALL BE OBTAINED BY METHODS SPECIFIED BY THE SOILS ENGINEER. ROAD PRISM SUBGRADE SHALL BE COMPACTED TO AT LEAST 95% STANDARD OR MODIFIED PER SOILS ENGINEER'S RECOMMENDATIONS.
- THE SOILS AND DESIGN ENGINEER OF RECORD SHALL ALSO BE RESPONSIBLE TO INSPECT, VERIFY AND REPORT THAT PROPER COMPACTION HAS BEEN OBTAINED BY EARTHWORK CONTRACTOR OR SUBCONTRACTOR AND PRIVATE UTILITY FRANCHISES CONCERNING UTILITY LINE BACKFILL TO INCLUDE ELECTRICAL, GAS, CABLE, FIBEROPTIC AND LANDSCAPE IRRIGATION LINES. ADDITIONALLY WATER AND SEWER LINES TO BE BACKFILLED AND COMPACTED IN ACCORDANCE WITH GENERAL ENGINEERING REQUIREMENTS SECTION AND DETAIL.
- AN AS-GRADED GRADING PLAN AND THE CERTIFICATION OF COMPLIANCE FORMS FOR SAID GRADING PLAN WITH THE PROPER STAMPS AND SIGNATURES ARE TO BE SUBMITTED TO THE CITY ENGINEER PRIOR TO RELEASE OF GRADING BOND AND PRIOR TO FINAL GRADING INSPECTION. BUILDING PAD CERTIFICATION SHALL BE SUBMITTED TO THE BUILDING DEPARTMENT WHEN REQUESTED.
- NO FILL SHALL BE PLACED UNTIL STRIPPING OF VEGETATION, REMOVAL OF UNSUITABLE SOILS, AND INSTALLATION OF SUBDRAINS (IF ANY) HAVE BEEN INSPECTED AND APPROVED BY THE SOILS ENGINEER.
- ENGINEER MUST SET GRADE STAKES FOR ALL DRAINAGE DEVICES AND OBTAIN INSPECTION BEFORE POURING.
- GRADING SHALL NOT BE STARTED WITHOUT FIRST NOTIFYING CITY PUBLIC WORKS INSPECTION DEPARTMENT. A PRE-GRADING MEETING ON THE SITE IS REQUIRED BEFORE BEGINNING GRADING ACTIVITIES BY THE FOLLOWING PEOPLE PRESENT: OWNER, GRADING CONTRACTOR, DESIGN CIVIL ENGINEER, SOIL ENGINEER/GEOLOGIST, PUBLIC WORKS INSPECTOR, AND WHEN REQUIRED, THE ARCHAEOLOGIST AND PALEONTOLOGIST. THE REQUIRED INSPECTIONS FOR GRADING WILL BE EXPLAINED AT THE PRE-CONSTRUCTION MEETING.
- ALL EXISTING FILLS SHALL BE APPROVED AND CERTIFIED BY THE SOILS ENGINEER OR REMOVED PRIOR TO PLACING ADDITIONAL FILLS.
- ALL TRENCH BACKFILLS SHALL BE TESTED AND APPROVED BY THE SOILS ENGINEER.
- THE COMPACTION REPORT AND APPROVAL FROM THE SOILS ENGINEER SHALL INDICATE THE TYPE OF FIELD TESTING PERFORMED. EACH TEST SHALL BE IDENTIFIED WITH THE METHOD OF OBTAINING THE IN PLACE DENSITY, WHETHER SAND CONE OR NUCLEAR GAUGE, AND SHALL BE SO NOTED FOR EACH TEST.
- EXPORT SOIL MUST BE TRANSPORTED TO A LEGAL DUMP OR TO A PERMITTED SITE SHOWN CLEARLY ON APPROVED PLANS.
- ALL EXISTING DRAINAGE COURSES THROUGH THIS SITE SHALL REMAIN OPEN UNTIL FACILITIES TO HANDLE STORM WATER ARE APPROVED AND FUNCTIONAL. HOWEVER, IN ANY CASE, THE PERMITTEE SHALL BE HELD LIABLE FOR ANY DAMAGE DUE TO OBSTRUCTING NATURAL DRAINAGE PATTERNS.

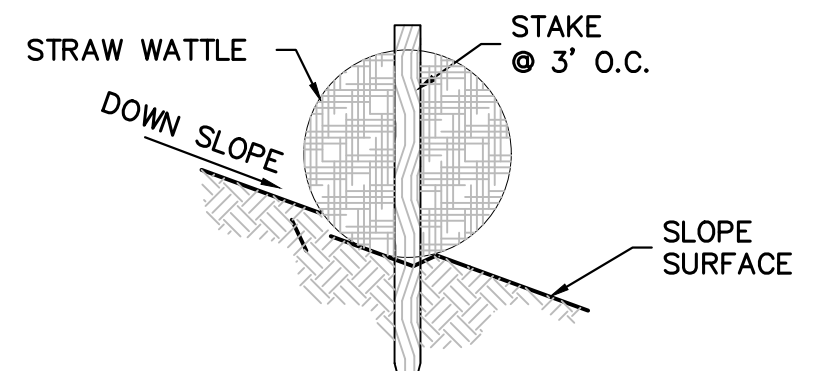
COP STANDARD DETAIL	GRADING AND DRAINAGE NOTES	<i>Charles Anderson</i> CITY ENGINEER	REVISED: 07/16	DETAIL No. 105P-1
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- A COPY OF THE APPROVED GRADING AND DRAINAGE PLAN FOR THIS PROJECT AND EROSION AND SEDIMENT CONTROL (ESC) PLAN OR STORM WATER POLLUTION PREVENTION PLAN (SWPPP) SHALL BE MAINTAINED ON THE SITE AND AVAILABLE FOR REVIEW. THOSE ELEMENTS OF THE GRADING AND DRAINAGE PLAN PERTINENT TO OR REFERENCED ON THE SWPPP SHALL BE CONSIDERED A PART OF THE SWPPP.
- THE ESC/SWPPP AND RELATED RECORDS MUST BE MADE AVAILABLE UPON REQUEST TO ADEQ AND THE CITY OF PRESCOTT.
- THE IMPLEMENTATION OF THESE PLANS AND THE CONSTRUCTION, MAINTENANCE, REPLACEMENT, AND UPGRADING OF THESE FACILITIES IS THE RESPONSIBILITY OF THE PERMITTEE/CONTRACTOR UNTIL ALL CONSTRUCTION IS APPROVED AND A NOTICE OF TERMINATION HAS BEEN SUBMITTED.
- THE SCHEMATIC EROSION CONTROL MEASURES SHOWN ON THE PLANS ARE A MINIMUM. THE CONTRACTOR SHALL PROVIDE ALL NECESSARY MEANS TO PROTECT EXISTING FACILITIES AND ADJACENT PROPERTIES FROM NOISE, DUST, AND STORM WATER RUNOFF THROUGHOUT CONSTRUCTION OF THE PROJECT AND BUILDINGS ON LOTS, AND SHALL CONDUCT HIS OPERATIONS IN SUCH A MANNER THAT STORM WATER WILL BE CONTAINED ON SITE OR CHANNELLED INTO A STORM DRAIN SYSTEM, PROVIDED THAT IT IS FREE FROM POLLUTANTS AND DEBRIS.
- CONTRACTOR SHALL PERMANENTLY STABILIZE ALL DISTURBED SLOPES AS STATED ON APPROVED CONSTRUCTION PLANS. ALL EROSION CONTROL STRUCTURES SHALL REMAIN IN PLACE UNTIL EXPOSED SLOPES HAVE BEEN PERMANENTLY STABILIZED.
- CONTRACTOR SHALL TAKE MEASURES TO PREVENT OR MINIMIZE THE GENERATION, EMISSION AND/OR TRANSPORT OF FUGITIVE DUST FROM CONSTRUCTION ACTIVITIES.
- THIS PLAN SHALL BE IN EFFECT UNTIL ALL DISTURBED AREAS ARE PERMANENTLY STABILIZED, TRANSFERRED TO NEW OWNERSHIP, OR DEVELOPED UNDER FUTURE PLANS WITH A NEW NOTICE OF INTENT (NOI), SWPPP, AND PERMIT. ONCE THE CONSTRUCTION ACTIVITIES HAVE BEEN COMPLETED AND THE SITE HAS MET THE FINAL STABILIZATION REQUIREMENTS OF THE PERMIT, THE AUTHORIZED SITE REPRESENTATIVE MAY FILE A NOTICE OF TERMINATION (NOT) WITH ADEQ, WITH A COPY SUBMITTED TO THE CITY OF PRESCOTT ENGINEERING DIVISION TO TERMINATE COVERAGE UNDER THE PERMIT.
- A CONCRETE WASHOUT SHALL BE INSTALLED FOR ALL PROJECTS THAT PROPOSE CONCRETE TO BE MIXED ON SITE OR BE DELIVERED FROM A BATCH PLANT. THE CONCRETE WASHOUT SHALL BE LOCATED A MINIMUM OF FIFTY (50) FEET FROM ANY DRAINAGE INFRASTRUCTURE OR NATURAL DRAINAGE FEATURES OR WATER BODIES AND INCORPORATE AN IMPERMEABLE LINER TO CONTAIN THE REQUIRED VOLUME. ALL DRIED CONCRETE WASTE SHALL BE BROKEN INTO MANAGEABLE PIECES AND DISPOSED OF OFF-SITE AT AN APPROVED FACILITY.

COP STANDARD DETAIL	EROSION AND SEDIMENTATION CONTROL NOTES	<i>Charles Anderson</i> CITY ENGINEER	REVISED: 07/16	DETAIL No. 105P-2
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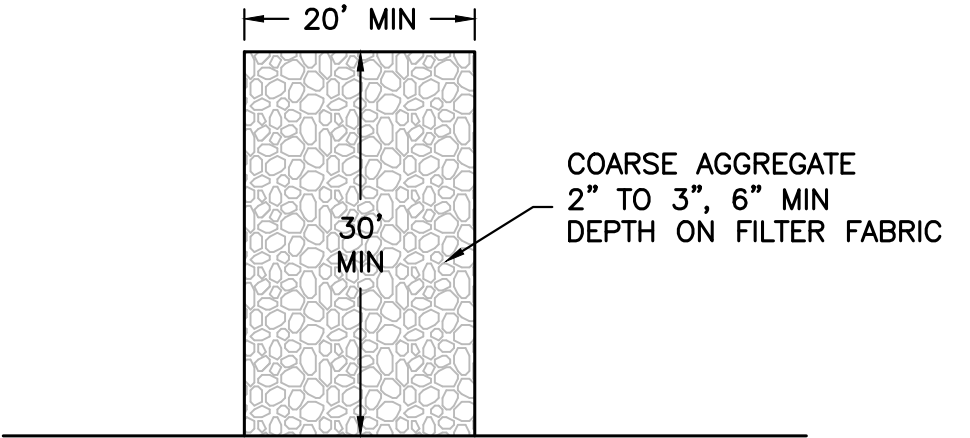
- THE CONTRACTOR SHALL SPOT LAYOUT THE ENTIRE PROJECT AND CONTACT THE CITY INSPECTOR TO MAKE ARRANGEMENTS FOR INSPECTION PRIOR TO INSTALLING TRAFFIC SIGNS OR PAVEMENT MARKINGS. ANY SIGNING OR STRIPING INSTALLED BEFORE LAYOUT APPROVAL SHALL BE SUBJECT TO REMOVAL AND REINSTALLATION AT THE CONTRACTOR'S EXPENSE.
- TRAFFIC SIGN DIMENSIONS, COLORS AND LETTERING SHALL CONFORM TO THE LATEST MUTCD SPECIFICATIONS. TRAFFIC SIGN SIZE SHALL BE STANDARD UNLESS OTHERWISE SPECIFIED ON THE PLANS.
- SIGN LOCATION SHALL BE COORDINATED WITH LANDSCAPING PLANS TO ENSURE SIGN VISIBILITY PER AASHTO STANDARDS.
- ALL RETRO-REFLECTIVE SIGNS AND PEDESTRIAN WARNING SIGNS SHALL BE RETRO-REFLECTIVE WITH SHEETING MATERIAL TO BE DIAMOND WP GRADE, MEETING OR EXCEEDING ASTM 4956-04.
- ALL OTHER SIGNS ARE TO BE RETRO-REFLECTIVE WITH SHEETING MATERIAL TO BE HIGH INTENSITY PRISMATIC MEETING OR EXCEEDING ASTM 4956-04.
- SIGN BLANKS SHALL BE 3035 ALLOY TREATED ALUMINUM WITH ALDINE 1200 CONVERSION COATING, 0.060" THICK WITH ROUNDED CORNERS.
- SIGNS SHALL BE MAINTAINED ON SITE WHENEVER FEASIBLE.
- STRIPING SHALL CONFORM TO THE MOST RECENT EDITION OF THE MUTCD WITH REGARD TO SIZE, COLOR, REFLECTIVITY AND PLACEMENT UNLESS OTHERWISE SPECIFIED ON THE PLANS.
- ALL THERMOPLASTIC APPLICATIONS SHALL CONFORM TO ADOT SPECIFICATION 704. TRANSVERSE MARKINGS, SYMBOLS AND LEGENDS SHALL BE 30 MIL (0.030 INCH) THICK. LONGITUDINAL MARKINGS SHALL BE 60 MIL (0.060 INCH) THICK ALKYL EXTRUDED THERMOPLASTIC.
- ALL PAINT APPLICATION SHALL CONFORM TO ADOT SPECIFICATION 708.
- ALL CONFLICTING STRIPING, PAVEMENT MARKINGS, AND CURB PAINT SHALL BE REMOVED BY WET SANDBLASTING OR OTHER APPROVED METHOD PRIOR TO THE INSTALLATION OF NEW STRIPING. SLURRY OR PAINT SHALL NOT BE USED TO COVER EXISTING PAINT. PAVEMENT THAT IS DAMAGED OR REMOVED OR MARKERS OR STRIPING SHALL BE REPAIRED TO THE SATISFACTION OF THE CITY ENGINEER OR HIS DESIGNEE.

COP STANDARD DETAIL	SIGNING AND STRIPING NOTES	<i>Charles Anderson</i> CITY ENGINEER	REVISED: 07/16	DETAIL No. 106P-1
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- NOTES:
- Temporary straw wattles shall be installed prior to any grading work in the area to be protected. They shall be maintained throughout the construction period and removed in conjunction with the final grading and site stabilization.
  - Anchors shall be rebar, steel pickets or 2" x 2" stakes, and shall be long enough to extend at least 1.5 to 2.0 feet into the ground when the top is flush.

10 STRAW WATTLE BARRIER N.T.S.



12 STABILIZED CONSTRUCTION ENTRANCE N.T.S.

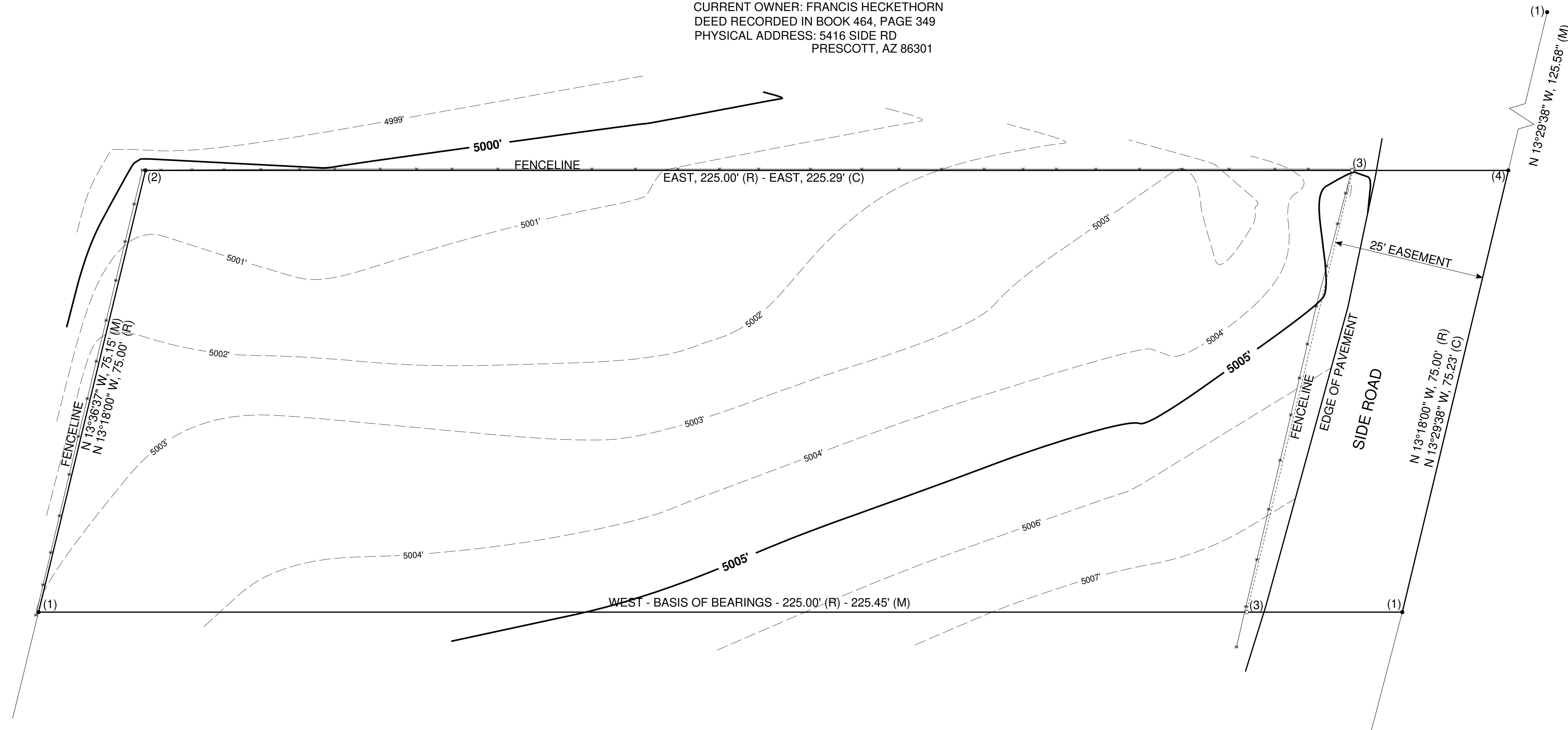
**EROSION CONTROL/SWPPP GENERAL NOTES**

- The Notice of Intent (NOI) shall be completed and submitted to the Arizona Department of Environmental Quality (ADEQ) prior to any construction activity (including clearing & grubbing and grading).
- The prime contractor shall perform, at a minimum, a visual inspection of the construction site once every seven days and within 24 hours of rainfall greater than or equal to a half an inch (1/2-inch). The operator shall prepare a report documenting his/her findings on the conditions of the SWPPP controls and note any erosion problem areas. The operator's report is to be maintained on site by the operator. Facilities shall be maintained as necessary to ensure their continued functioning. In addition, all temporary siltation controls shall be maintained in a satisfactory condition until such time that construction is completed, permanent drainage facilities are operational, and the potential for erosion has passed as determined by the City Engineer or his designee.
- The facilities shown on this plan must be constructed in conjunction with all clearing and grading activities in such a manner as to insure that sediment-laden water does not enter the drainage system or violate applicable water standards. Additionally, they must be installed and in operation prior to any grading or land clearing. Wherever possible, natural vegetation should be retained and maintained for silt and erosion control.
- The general contractor to whom the "at-risk"/final grading permit will be issued must be included on the approved NOI issued by ADEQ.
- The owner (operator)/contractor of the site must also maintain records with the following information:
  - The dates when major grading activities occur in a particular area;
  - The dates when construction activities cease in an area, temporarily or permanently; and
  - The dates when an area is stabilized, temporarily or permanently; and
  - The dates when any maintenance/replacement or removal of required BMP's.
- Construction sites are dynamic in nature. The site operator is required to maintain full compliance with the general construction permit, as issued by ADEQ, to maintain an effective SWPPP. As such, this plan must be updated to accurately reflect site features and operations which may become evident during construction, and/or during or after rainfall events. The plan must also be amended if it is determined by the Design Engineer, or the City Engineer as not effective at minimizing pollutant discharges from the site.
- Contractor shall hydro-seed all exposed slopes employing best management practices and/or recommended soil preparation to promote and sustain growth. All erosion control structures shall remain in place until exposed slopes have been permanently stabilized. Contractor shall be responsible for watering and maintaining hydro-seed until stabilized. Any deviation shall be approved by the engineer.
- All site revegetation shall be completed within 90 days of completion of grading work, or prior to release of subdivision guarantee or issuance of Certificate of Occupancy, which ever occurs first. Permanent bank/slope stabilization shall be certified by the Project Engineer or Landscape Architect documenting the bank/slope stabilization was completed according to plan prior to final subdivision release or certificate of occupancy.
- Contractor shall protect all permanent and existing storm water facilities from sediment/silt during construction.
- Silt fencing and/or other sediment control (i.e. straw baffles, hay bales, etc.) shall be used at the toe of any erodible slope, following contours of slope (do not install silt fence across any drainage course).
- Contractor to coordinate erosion control/SWPPP implementation with the City's environmental coordinator.

DATE		REVISION		NO.	
<b>KELLEY/WISE ENGINEERING, INC.</b> 146 GROVE AVENUE PRESCOTT, ARIZONA 86301 (928) 771-1730 FAX 778-2220 gk@kelleywise.com					
COMMERCIAL BUILDING ON SIDE ROAD APN: 103-01-038 5416 SIDE ROAD PRESCOTT, AZ					
NOTES					
DRAWN	DESIGN	CHECK	DATE	KWE JOB #	
ZAJ	ZAJ	GRK	5/8/23	23-014	
SHEET					
C-003					
3 OF 9					

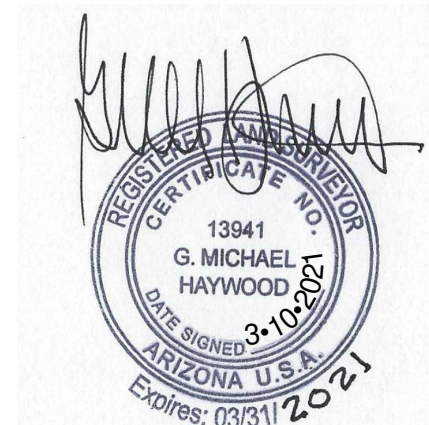
TOPOGRAPHIC SURVEY OF A PORTION OF  
SEC. 31, T15N, R1W, G&SRB&M  
YAVAPAI COUNTY, ARIZONA

SITE INFO  
APN 103-01-038  
CURRENT OWNER: FRANCIS HECKETHORN  
DEED RECORDED IN BOOK 464, PAGE 349  
PHYSICAL ADDRESS: 5416 SIDE RD  
PRESCOTT, AZ 86301



CERTIFICATION

I, G. MICHAEL HAYWOOD, DO HEREBY CERTIFY THAT I AM A REGISTERED LAND SURVEYOR IN THE STATE OF ARIZONA; THAT THIS PLAT REPRESENTS A SURVEY MADE UNDER MY DIRECT SUPERVISION DURING THE MONTH OF MAY 2021; THAT THE SURVEY IS TRUE AND CORRECT TO THE BEST OF MY KNOWLEDGE AND BELIEF; THAT THE BOUNDARY FORMS A MATHEMATICALLY CLOSED FIGURE; AND THAT ALL MONUMENTS SHOWN ACTUALLY EXIST OF THE DATE HEREOF AND THAT SAID MONUMENTS ARE SUFFICIENT TO ENABLE THE SURVEY TO BE RETRACED



BENCHMARK DATA

ELEVATIONS ESTABLISHED USING CITY OF PRESCOTT MINGO BASE IN NAVD 88 VERTICAL DATUM.

SITE BENCHMARK IS THE SOUTHEAST EASEMENT CORNER OF SUBJECT PARCEL BEING A 1/2" REBAR W/ CAP STAMPED LS 13941 W/ NAVD 88 EL = 5008.40'

NOTES

1' CONTOURS ARE ACCURATE TO 1/2 CONTOUR INTERVAL SHOWN

SUBJECT PARCEL IS CURRENTLY ZONED CITY OF PRESCOTT SF-9. IT IS THE INTENT OF THIS LAND OWNER TO RE-ZONE THIS PARCEL. NO SETBACKS SHOWN ON THIS MAP

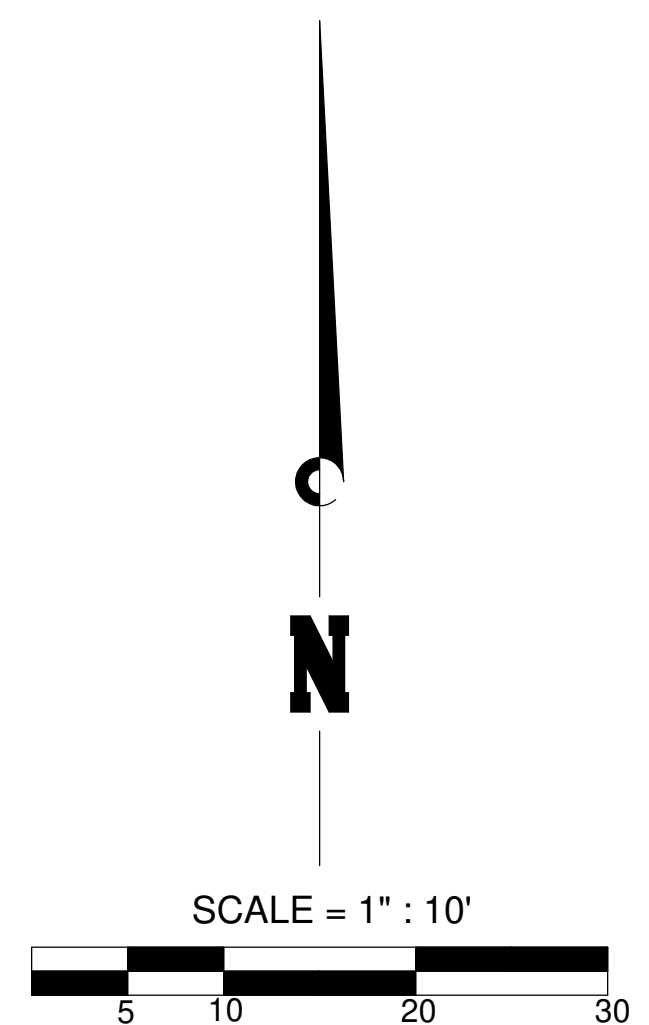
THIS SURVEYOR HAS MADE NO INVESTIGATION OR INDEPENDENT SEARCH FOR EASEMENTS, RIGHTS-OF-WAY, ENCUMBRANCES, RESTRICTIVE COVENANTS, OWNERSHIP TITLE EVIDENCE, OR ANY OTHER INFORMATION THAT AN ACCURATE AND CURRENT TITLE REPORT MAY DISCLOSE.

FEMA PANEL 04025C1693H - SUBJECT PARCEL NOT AFFECTED BY FEMA FLOODPLAIN.

NO BLUE STAKE SERVICES WERE PROVIDED AND UNDERGROUND UTILITIES MAY NOT BE SHOWN.

LEGEND

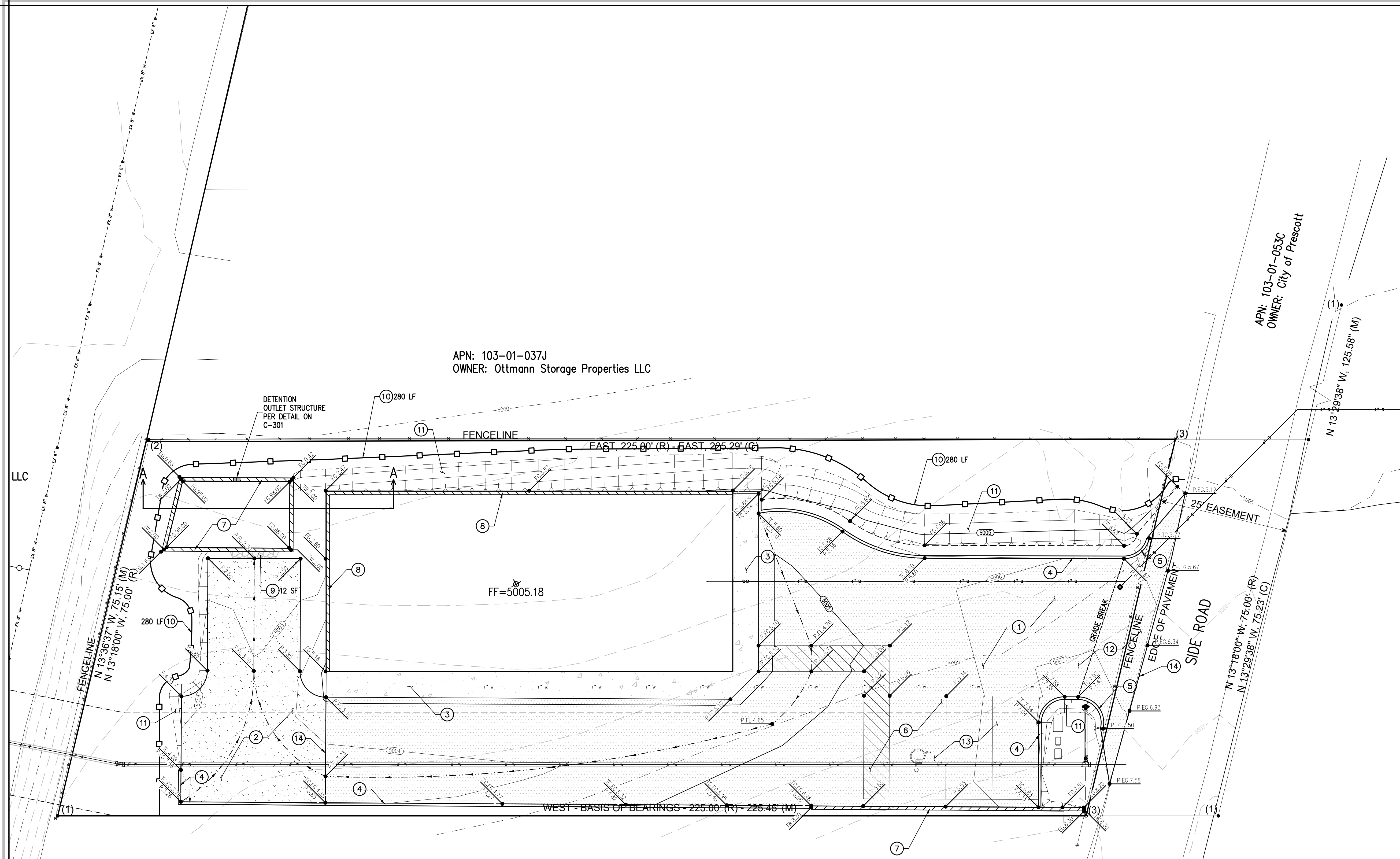
- = PROPERTY CORNER AS NOTED
- = EASEMENT CORNER AS NOTED
- (1) = FOUND 1/2" REBAR W/ CAP LS 23383
- (2) = FOUND 1/2" REBAR W/ CAP LS 13941
- (3) = SET 1/2" REBAR W/ CAP LS 13941
- (4) = NOTHING FOUND OR SET DURING THIS SURVEY



NEXUS SOUTHWEST LLC  
REGISTERED LAND SURVEYORS  
212 S. MARINA ST.  
PRESCOTT, AZ 86303  
(928)778-5101  
INFO@NEXUS-SW.NET

JOB NO. 21-542	DRAWN: PMH - 5/27/2021
CLIENT: HICKS	CHECK: GMH
CREW: JV/BV	CREW: 5/2021
SCALE = 1" : 10'	SHEET SIZE: 24X36"

FILENAME: 23-014\_CIVIL\_BASED\_DWG\_PLOT DATE: 5/8/2023 9:43 AM SHEET SET: 23-014 SIDE ROAD SHEET TOTAL: 9



APN: 103-01-037J  
OWNER: Ottmann Storage Properties LLC

APN: 103-01-053C  
OWNER: City of Prescott

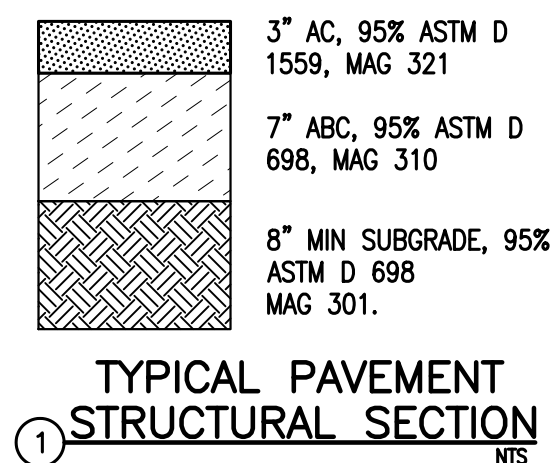
APN: 103-01-039  
OWNER: Perkins Jason Sloan

**APPROXIMATE RAW EARTHWORK QUANTITIES\***

EXCAVATION = 165 CY  
EMBANKMENT = 435 CY

**\*SPECIAL NOTE:** IT SHALL BE THE RESPONSIBILITY OF THE BIDDER TO VERIFY ALL QUANTITIES, INCLUDING EXCAVATION, BORROW, EMBANKMENT, SHRINK OR SWELL, GROUND COMPACTION, HAUL AND ANY OTHER ITEMS AFFECTING THE BID AND TO BASE THE BID PER THE INTENT OF THE PLANS. IT SHALL BE THE BIDDER'S RESPONSIBILITY TO NOTIFY THE ENGINEER PRIOR TO BIDDING OF ANY DISCREPANCIES. THESE QUANTITIES ASSUME SUBGRADE AT THE BLDG IS 8" BELOW FINISHED FLOOR, 8" BELOW SIDEWALK GRADES, 10" BELOW PAVEMENT GRADES, AND 4" BELOW COMPACTED ABC GRADES. THESE QUANTITIES DO NOT INCLUDE ANY OVER-EXCAVATION THAT MAY BE REQUIRED PER THE SOILS REPORT, TRENCHING OR OTHER EXCAVATION.

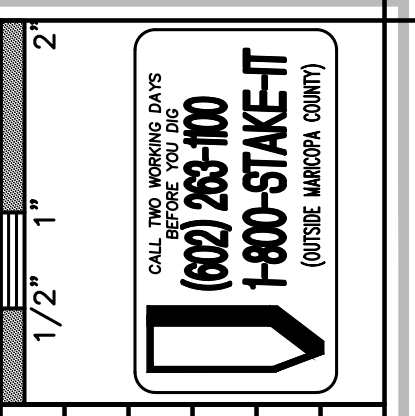
APPROXIMATE DISTURBED AREA = ±0.27 ACRES



- LEGEND:**
- EC EXISTING CONCRETE ELEVATION
  - EFL EXISTING FLOW LINE ELEVATION
  - EG EXISTING GROUND ELEVATION
  - EP EXISTING PAVEMENT
  - ETC EXISTING TOP OF CURB
  - FC NEW FINISHED CONCRETE ELEVATION
  - FF NEW FINISHED FLOOR ELEVATION
  - FG NEW FINISHED GRADE ELEVATION
  - FL NEW FLOWLINE ELEVATION
  - G/B GRADE BREAK
  - H/P HIGH POINT
  - L/P LOW POINT
  - P PAVEMENT OR SURFACE PER ARCH. PLANS
  - SD STORM DRAIN
  - TBC NEW TOP BACK OF CURB ELEVATION
  - TC NEW TOP OF CURB ELEVATION
  - TW NEW TOP OF WALL ELEVATION
  - VC&G VERTICAL CURB AND GUTTER

**GRADING AND PAVING KEY**

- 1 FURNISH AND INSTALL 3" AC ON 7" ABC ON 8" PREPARED SUBGRADE PER COP STANDARDS AND PROJECT SOILS REPORT.
- 2 FURNISH AND INSTALL 4" ABC ON 8" PREPARED SUBGRADE PER COP STANDARDS AND PROJECT SOILS REPORT.
- 3 CONSTRUCT CONCRETE SIDEWALK PER QC SD 230Q AND ARCHITECTURAL REQUIREMENTS (WIDTH PER ARCHITECTURAL SITE PLAN), CONCRETE FRONTING OVERHEAD DOORS PER ARCHITECTURAL PLANS.
- 4 CONSTRUCT SINGLE CURB (TYPE 'A') PER MAG SD 222.
- 5 CONSTRUCT CURB TRANSITION FROM FLUSH WITH PAVEMENT TO SINGLE CURB (TYPE 'A') PER MAG SD 222.
- 6 CONSTRUCT ADA COMPLIANT HANDICAP SPACE AND ACCESS AISLE WITH ADA HANDICAP EMBLEM, STRIPING, AND SIGNAGE PER ADA REQUIREMENTS AND ARCHITECTURAL DETAILS. MAXIMUM SLOPE IS 2% IN ANY DIRECTION.
- 7 CONSTRUCT RETAINING WALL PER ARCHITECTURAL PLANS. PROVIDE HANDRAIL/FALL PROTECTION PER QC SD 145Q, OR PER ARCHITECTURAL PLANS, WHERE ELEVATION DIFFERENCE IS 30" OR MORE.
- 8 BUILDING STEM WALL PER ARCHITECTURAL PLANS.
- 9 FURNISH AND PLACE STONE RIP RAP ON FABRIC FILTER, 12" THICK, D<sub>50</sub>=6" PER PLAN AND PER MAG SPECIFICATIONS SECTIONS 703 AND 796.
- 10 FURNISH AND INSTALL STRAW WATTLE PROTECTION ALONG TOE OF FILL SLOPE PER PLAN.
- 11 LANDSCAPE DISTURBED GRADING LIMITS OR SLOPE STABILIZATION, INCLUDING HORIZONTAL SLOPE SCARIFICATION AND HYDROSEEDING, PER LANDSCAPE PLANS. 2H:1V SLOPES TYPICAL.
- 12 CONSTRUCT 20'x30' TEMPORARY GRAVEL STABILIZED CONSTRUCTION ENTRANCE TO PREVENT TRACKING SOIL ONTO EXISTING PAVEMENT.
- 13 CONSTRUCT TEMPORARY CONCRETE WASH OUT AREA WITH 6" MIN DEPRESSION TO PREVENT WASH OUT WATER FROM LEAVING THE SITE. WASH OUT AREA TO COMPLY WITH AAC R18-9-B301.LA.1.12.
- 14 FURNISH AND INSTALL THICKENED EDGE PAVEMENT PER QC SD 201Q.



NO.	REVISION	DATE

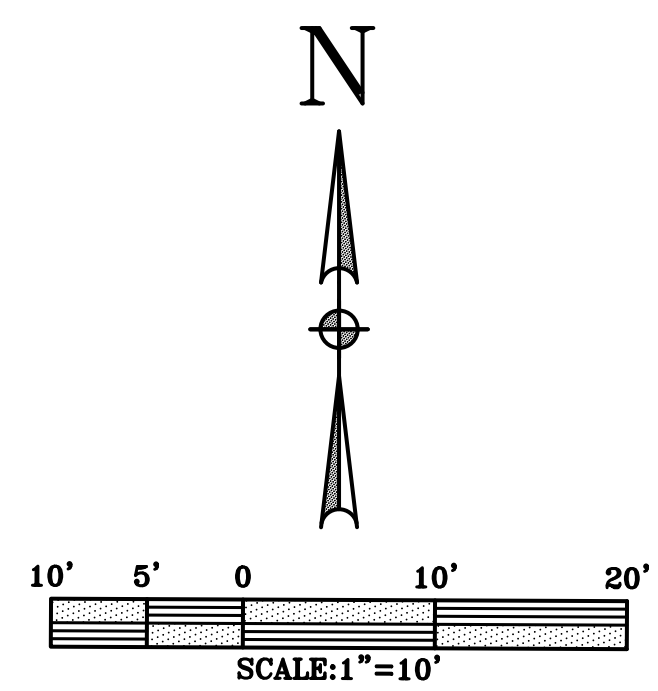
**KELLEY/WISE ENGINEERING, INC.**  
146 GROVE AVENUE  
PRESCOTT, ARIZONA 86301  
(928) 771-1730  
FAX 778-2220  
gkelley@kelley-wise.com

COMMERCIAL BUILDING ON SIDE ROAD  
APN: 103-01-038  
5416 SIDE ROAD  
PRESCOTT, AZ  
GRADING AND DRAINAGE PLAN



DRAWN	ZAJ
DESIGN	ZAJ
CHECK	GRK
DATE	5/8/23
KWE JOB #	23-014

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5 OF 9

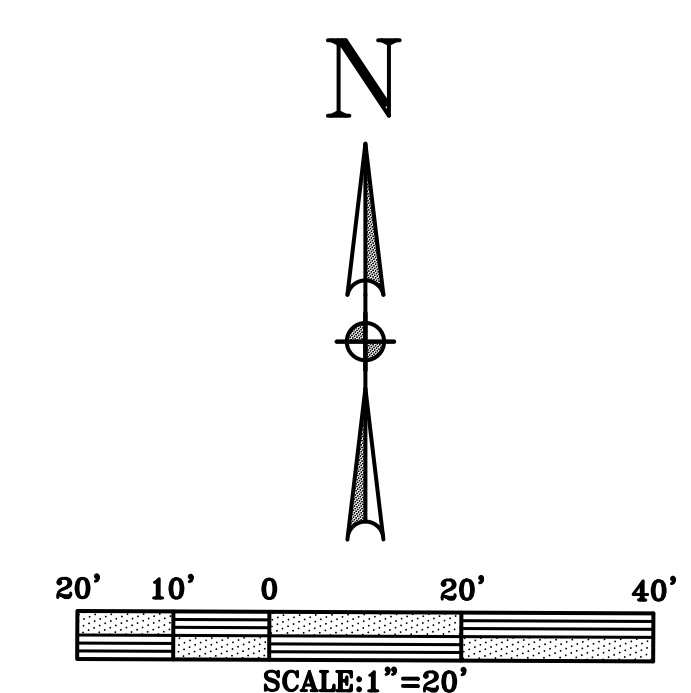
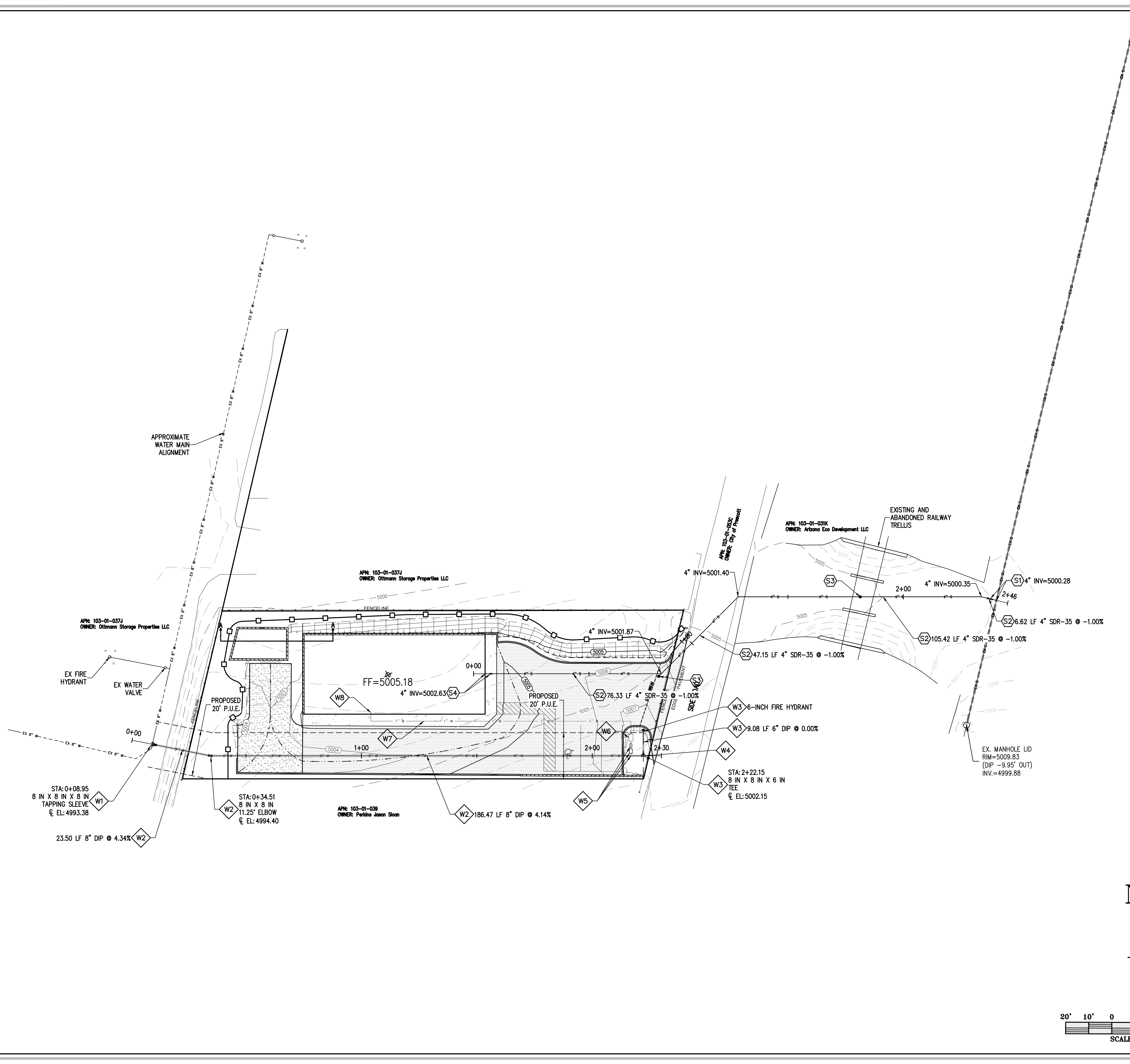


APPROVED TRAFFIC CONTROL PLAN AND R.O.W. PERMIT MUST BE OBTAINED FROM COP PRIOR TO BEGINNING WORK IN THE R.O.W.

**SPECIAL NOTE:** EXISTING BOUNDARY CORNER MONUMENTS SHALL BE PROTECTED IN PLACE. IF ANY BOUNDARY CORNER MONUMENTS ARE DISTURBED OR DESTROYED, THEY SHALL BE REPLACED IN ACCORDANCE WITH THE ARIZONA BOUNDARY SURVEY MINIMUM STANDARDS.

**SPECIAL NOTE:** THE TOP OF WALL (TW) GRADES SHOWN AND CALLED OUT ON THE PLAN REPRESENT THE MINIMUM WALL HEIGHT REQUIRED FOR THE GRADING PLAN. THE GRADES SHOWN DO NOT ACCOUNT FOR ANY RETAINING WALL DESIGN OR APPLICATION THEREOF RELATIVE TO FOOTING ELEVATIONS, FOOTING AND/OR TOP OF WALL STEPS, WALL CONSTRUCTION MATERIALS OR METHODS OR ANY OTHER RETAINING WALL DESIGN ELEMENTS. THE CONTRACTOR SHALL BE RESPONSIBLE FOR INCORPORATING ANY RETAINING WALL DESIGN TO MEET THE INTENT OF THE GRADES PER THIS PLAN.

Pair: X:\KWE\PROJECTS\2023\23-014 KENSON-HICKS 5416 SIDE ROAD SHEET SET: 23-014 SIDE ROAD SHEET TOTAL: 9  
 FILENAME: 23-014 CIVIL BASE DWG PLOT DATE: 5/8/2023 9:43 AM SHEET SET: 23-014 SIDE ROAD SHEET TOTAL: 9



**WATER KEY**

- W1 CONNECT TO EXISTING WATER MAIN. FURNISH AND INSTALL 8"X8"X8" TAPPING SLEEVE, 8" GATE VALVE, BOX AND COVER PER QC SD 3010, 340Q-1, AND -2. FIELD VERIFY EXISTING PIPE, SIZE, LOCATION, INVERT, AND MATERIAL PRIOR TO CONSTRUCTION.
- W2 FURNISH AND INSTALL FULLY RESTRAINED (AT ALL JOINTS AND BENDS) 8" CLASS 350 PER AWWA C600 DUCTILE IRON PIPE (DIP) WATER MAIN. TRENCH PER QC SD 200Q-1.
- W3 FURNISH AND INSTALL COMPLETE FIRE HYDRANT ASSEMBLY INCLUDING 8"X6"X8" TEE, 6" VALVE, BOX AND COVER PER QC SD 3010 AND 3910, HYDRANT AND PIPING PER QC SD 360Q AND 362Q AND PER AWWA AND ASTM STANDARDS.
- W4 FURNISH AND INSTALL BLIND FLANGE OR MECHANICAL PLUG.
- W5 FURNISH AND INSTALL 1" WATER SERVICE CONNECTION ON NEW MAIN, WATER METER BOX AND COVER PER QC SD 316P WITH CUSTOMER SHUTOFF AND PRESSURE REDUCING VALVES. TRENCH EXCAVATION AND BACKFILL PER QC SD 200Q-1 AND PLAN DETAILS.
- W6 FURNISH AND INSTALL COMPLETE 1" BACKFLOW PREVENTION ASSEMBLY (BPA) ASSEMBLY PER QC SD 324Q-1 AND INTERNATIONAL BUILDING CODE (IBC). NO INTERCONNECTION ALLOWED BETWEEN WATER METER AND BPA ASSEMBLY. THE CONTRACTOR MUST SUBMIT SHOP DRAWINGS OF THE BPA ASSEMBLY AND ABOVE GROUND HOT BOX CLASS 1 PER ASSE 1060 PROTECTIVE ENCLOSURE PER IBC FOR SIGNED APPROVAL BY THE OWNER'S REPRESENTATIVE AND THE CITY OF PRESCOTT PRIOR TO INSTALLATION.
- W7 FURNISH AND INSTALL 1" SCHEDULE 40 PVC PRIVATE YARD LINE PER INTERNATIONAL PLUMBING CODE. TRENCH EXCAVATION AND BACKFILL PER QC SD 200Q-1 AND PLAN DETAILS.
- W8 EXACT LOCATION OF 1" BUILDING CONNECTION PER PLUMBING PLANS.

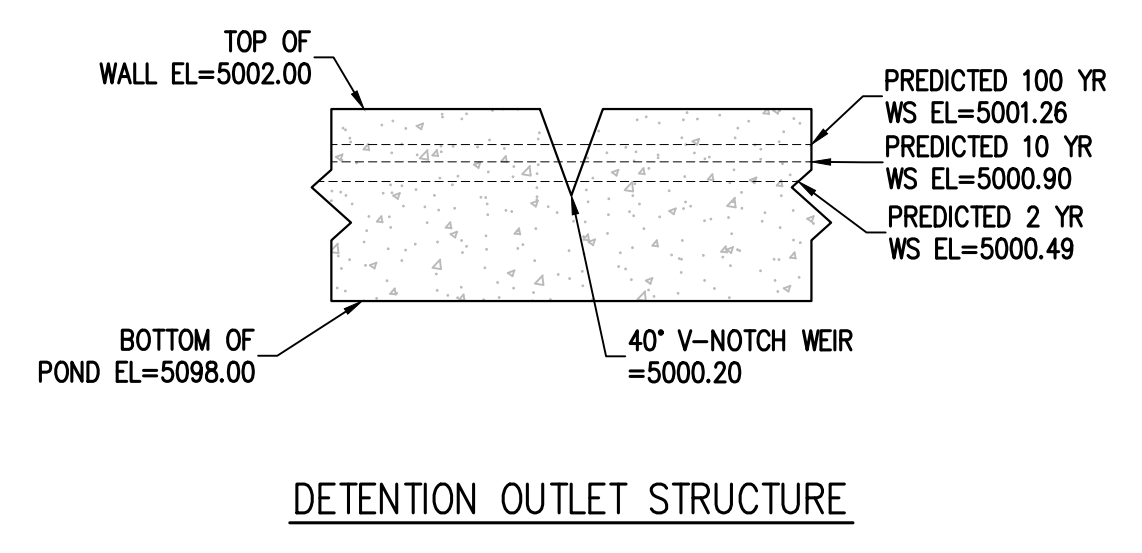
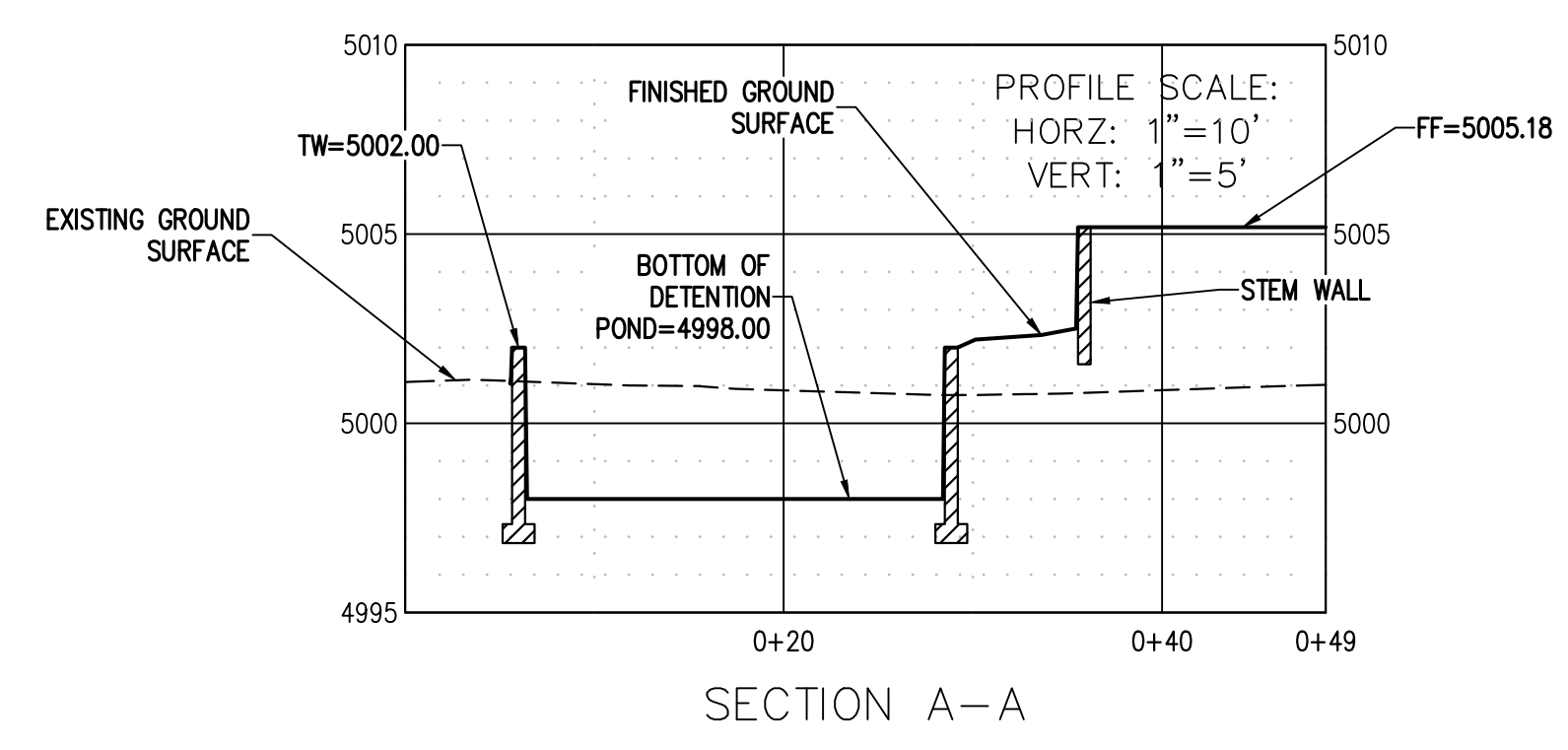
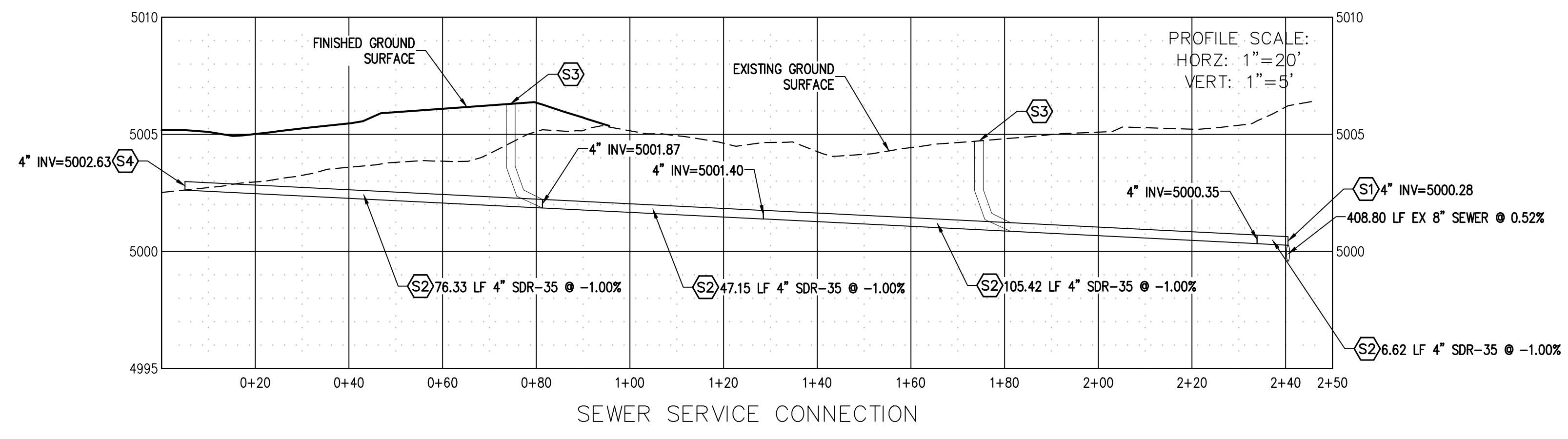
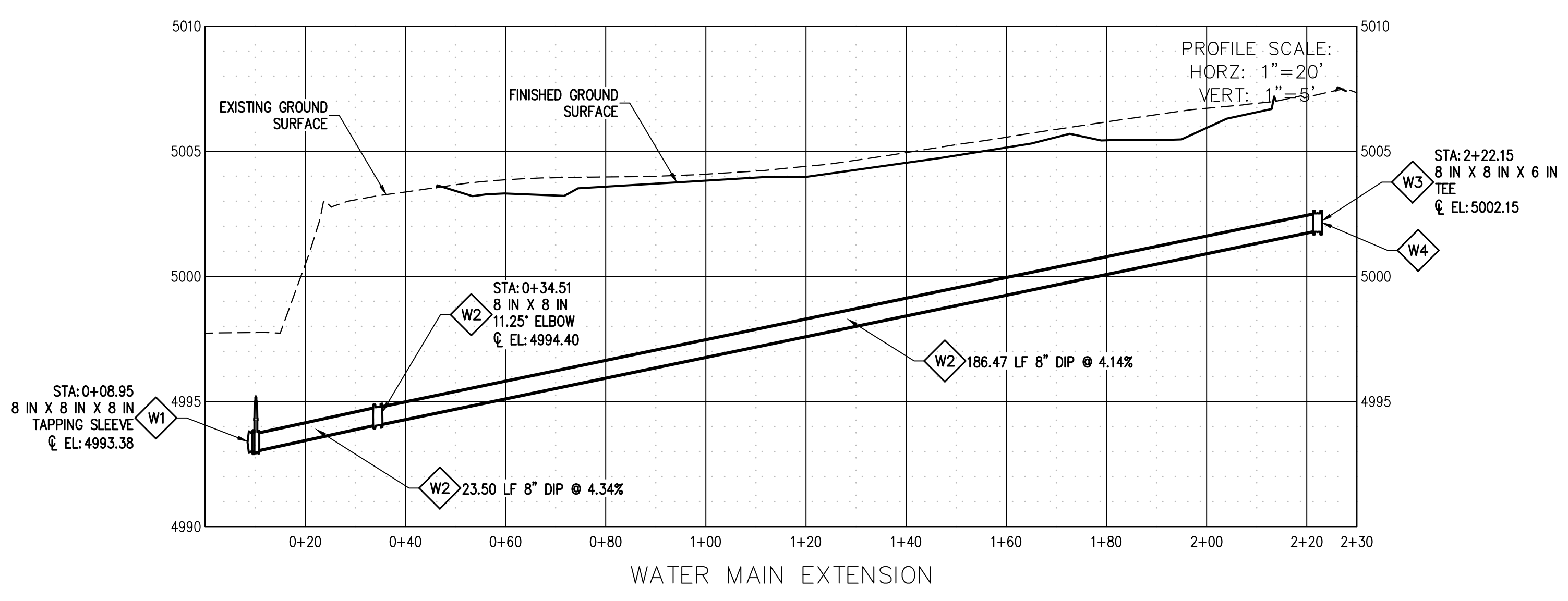
**SEWER KEY**

- S1 CONNECT TO EXISTING SEWER MAIN PER COP SD 440P-1 AND 440P-3 WITH DOUBLE BARREL TWO-WAY CLEANOUT AND BACKWATER VALVE WITH CAST IRON COVER PER QC SD 270Q. FIELD VERIFY EXACT PIPE SIZE, INVERT, LOCATION, MATERIAL AND CONDITION PRIOR TO CONSTRUCTION.
- S2 FURNISH AND INSTALL 4" SDR-35 PVC PRIVATE BUILDING SEWER SERVICE PIPE, TRENCH EXCAVATION AND BACKFILL PER MAG SPECIFICATION 601 AND QC SD 200Q-1 UTILITY TRENCH DETAIL.
- S3 FURNISH AND INSTALL SEWER SERVICE CLEANOUT PER QC SD 441Q AND PER INTERNATIONAL PLUMBING CODE.
- S4 FURNISH AND INSTALL DOUBLE BUILDING SEWER CLEANOUTS PER PLUMBING PLANS AND CITY OF PRESCOTT REQUIREMENTS WITH CAST IRON COVER PER QC SD 270Q. EXACT LOCATION OF BUILDING CONNECTION PER PLUMBING PLANS.

2	1/2" = 1'	DATE	REVISION	NO.	NO.
<b>KELLEY/WISE ENGINEERING, INC.</b>					
146 GROVE AVENUE PRESCOTT, ARIZONA 86301 (928) 771-1730 FAX 778-2220 gkelley@kelley-wise.com					
<b>COMMERCIAL BUILDING ON SIDE ROAD</b> APN: 103-01-038 5416 SIDE ROAD PRESCOTT, AZ WATER AND SEWER PLAN					
DRAWN	DESIGN	CHECK	DATE	KWE JOB #	SHEET
ZAJ	ZAJ	GRK	5/8/23	23-014	C-201
					6 OF 9



Path: X:\KWE\PROJECTS\2023\23-014 KENSON-HICKS 5416 SIDE ROAD SHEET SET: 23-014 SIDE ROAD SHEET TOTAL: 9  
 FILENAME: 23-014 CIVIL BASE DWG PLOT DATE: 5/8/2023 9:43 AM



**WATER KEY**

- W1 CONNECT TO EXISTING WATER MAIN. FURNISH AND INSTALL 8"x8"x8" TAPPING SLEEVE, 8" GATE VALVE, BOX AND COVER PER QC SD 3010, 340Q-1, AND -2. FIELD VERIFY EXISTING PIPE, SIZE, LOCATION, INVERT, AND MATERIAL PRIOR TO CONSTRUCTION.
- W2 FURNISH AND INSTALL FULLY RESTRAINED (AT ALL JOINTS AND BENDS) 8" CLASS 350 PER AWWA C600 DUCTILE IRON PIPE (DIP) WATER MAIN. TRENCH PER QC SD 200Q-1.
- W3 FURNISH AND INSTALL COMPLETE FIRE HYDRANT ASSEMBLY INCLUDING 8"x6"x8" TEE, 6" VALVE, BOX AND COVER PER QC SD 301Q AND 391Q, HYDRANT AND PIPING PER QC SD 360Q AND 362Q AND PER AWWA AND ASTM STANDARDS.
- W4 FURNISH AND INSTALL BLIND FLANGE OR MECHANICAL PLUG.
- W5 FURNISH AND INSTALL 1" WATER SERVICE CONNECTION ON NEW MAIN, WATER METER BOX AND COVER PER QC SD 316P WITH CUSTOMER SHUTOFF AND PRESSURE REDUCING VALVES. TRENCH EXCAVATION AND BACKFILL PER QC SD 200Q-1 AND PLAN DETAILS.
- W6 FURNISH AND INSTALL COMPLETE 1" BACKFLOW PREVENTION ASSEMBLY (BPA) ASSEMBLY PER QC SD 324Q-1 AND INTERNATIONAL BUILDING CODE (IBC). NO INTERCONNECTION ALLOWED BETWEEN WATER METER AND BPA ASSEMBLY. THE CONTRACTOR MUST SUBMIT SHOP DRAWINGS OF THE BPA ASSEMBLY AND ABOVE GROUND HOT BOX CLASS 1 PER ASSE 1060 PROTECTIVE ENCLOSURE PER IBC FOR SIGNED APPROVAL BY THE OWNER'S REPRESENTATIVE AND THE CITY OF PRESCOTT PRIOR TO INSTALLATION.
- W7 FURNISH AND INSTALL 1" SCHEDULE 40 PVC PRIVATE YARD LINE PER INTERNATIONAL PLUMBING CODE. TRENCH EXCAVATION AND BACKFILL PER QC SD 200Q-1 AND PLAN DETAILS.
- W8 EXACT LOCATION OF 1" BUILDING CONNECTION PER PLUMBING PLANS.

**SEWER KEY**

- S1 CONNECT TO EXISTING SEWER MAIN PER COP SD 440P-1 AND 440P-3 WITH DOUBLE BARREL TWO-WAY CLEANOUT AND BACKWATER VALVE WITH CAST IRON COVER PER QC SD 270Q. FIELD VERIFY EXACT PIPE SIZE, INVERT, LOCATION, MATERIAL AND CONDITION PRIOR TO CONSTRUCTION.
- S2 FURNISH AND INSTALL 4" SDR-35 PVC PRIVATE BUILDING SEWER SERVICE PIPE, TRENCH EXCAVATION AND BACKFILL PER MAG SPECIFICATION 601 AND QC SD 200Q-1 UTILITY TRENCH DETAIL.
- S3 FURNISH AND INSTALL SEWER SERVICE CLEANOUT PER QC SD 441Q AND PER INTERNATIONAL PLUMBING CODE.
- S4 FURNISH AND INSTALL DOUBLE BUILDING SEWER CLEANOUTS PER PLUMBING PLANS AND CITY OF PRESCOTT REQUIREMENTS WITH CAST IRON COVER PER QC SD 270Q. EXACT LOCATION OF BUILDING CONNECTION PER PLUMBING PLANS.

CALL FOR NUMBER DATES BEFORE YOU BUY  
 (802) 283-1100  
 1-800-STAKE-IT  
 (OUTSIDE MARICOPA COUNTY)

2  
 1/2" = 1"

DATE	REVISION	NO.

KELLEY/WISE ENGINEERING, INC.

KW

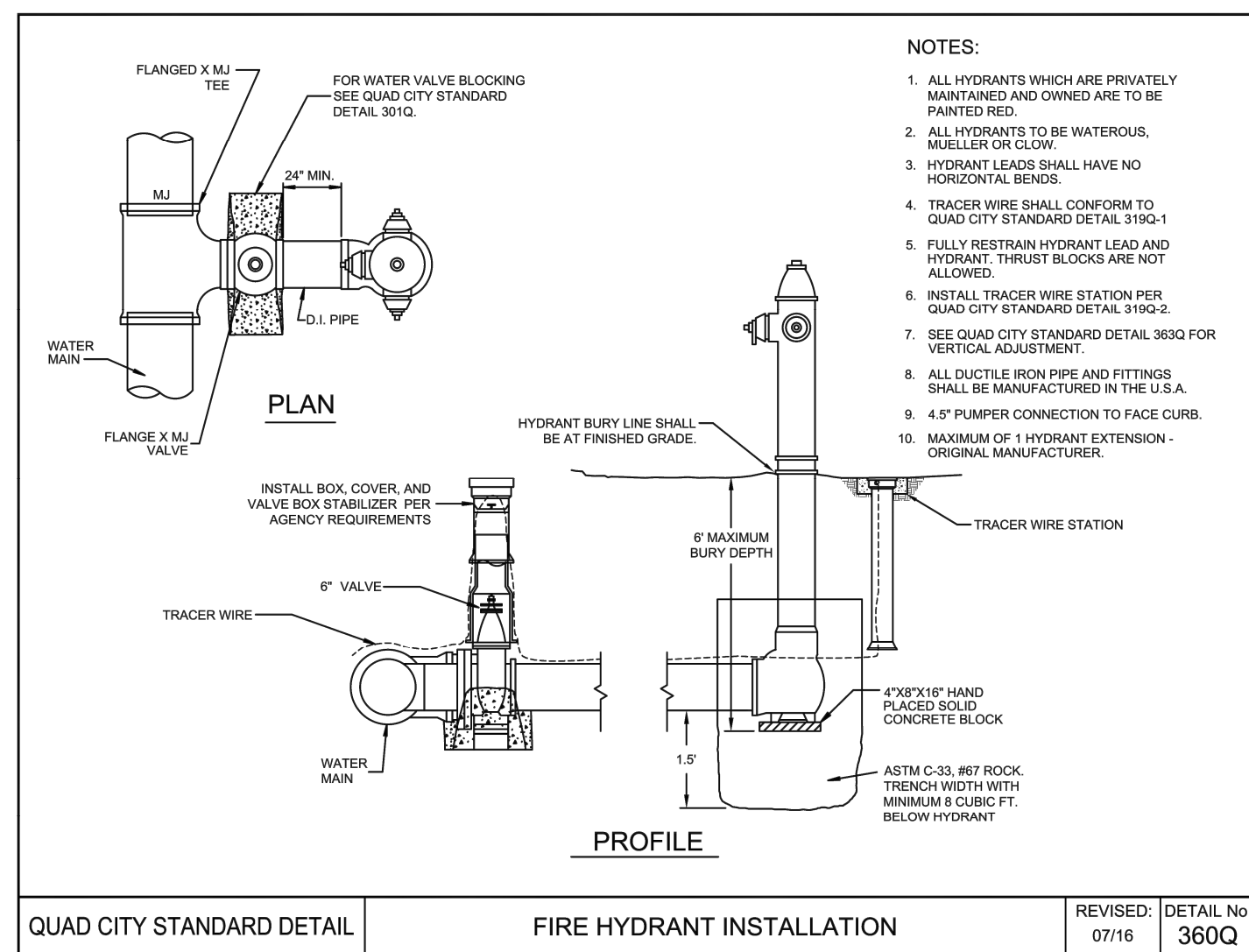
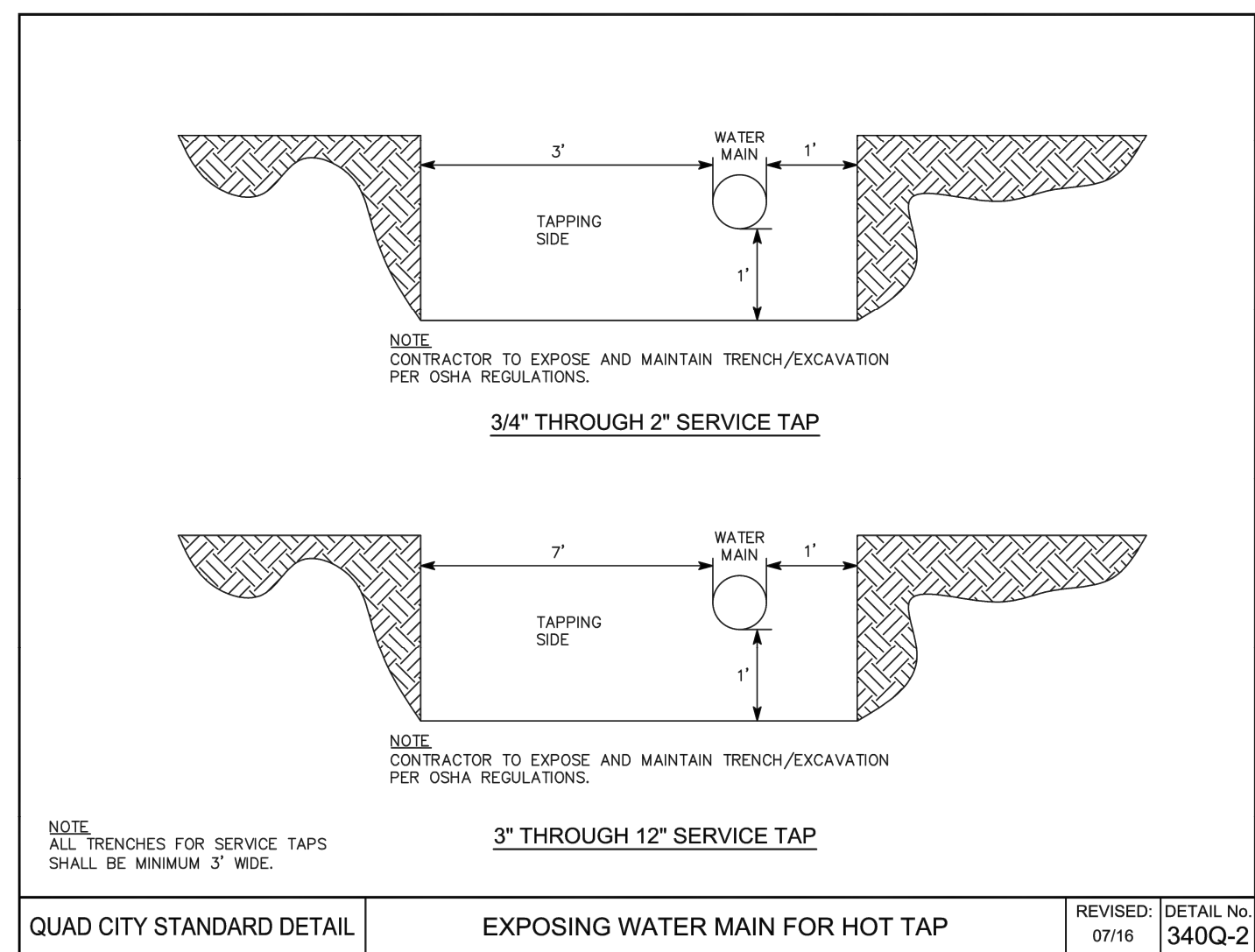
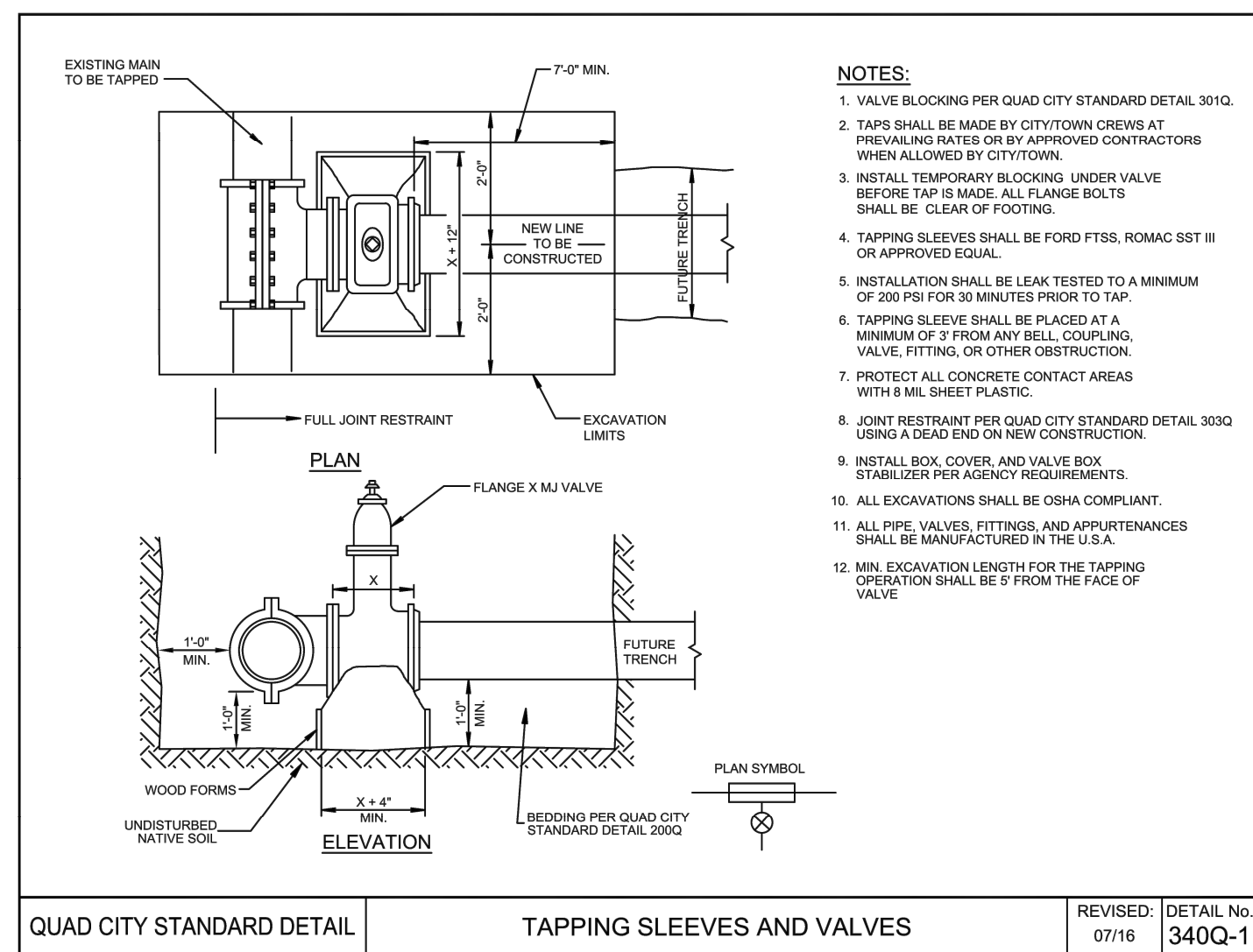
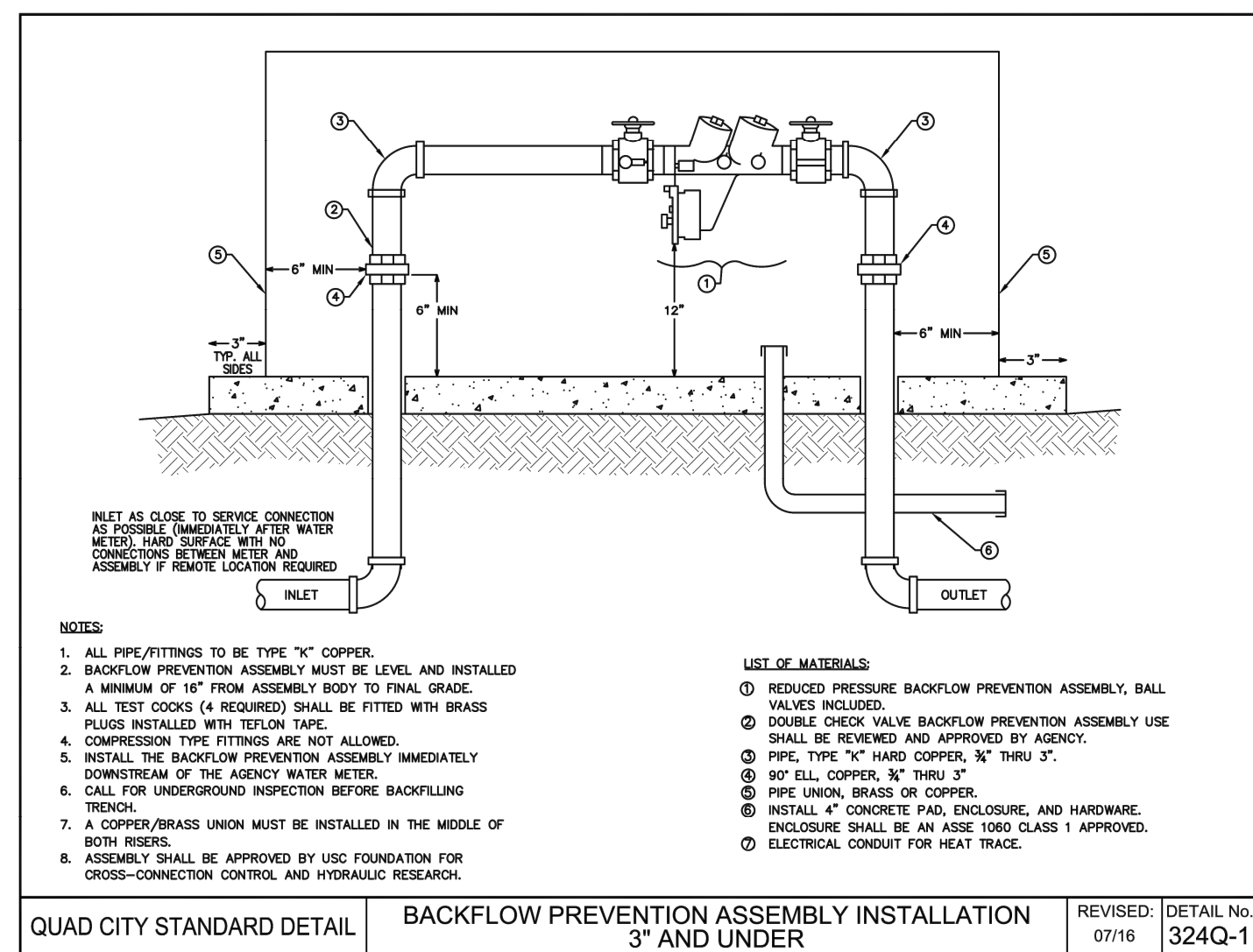
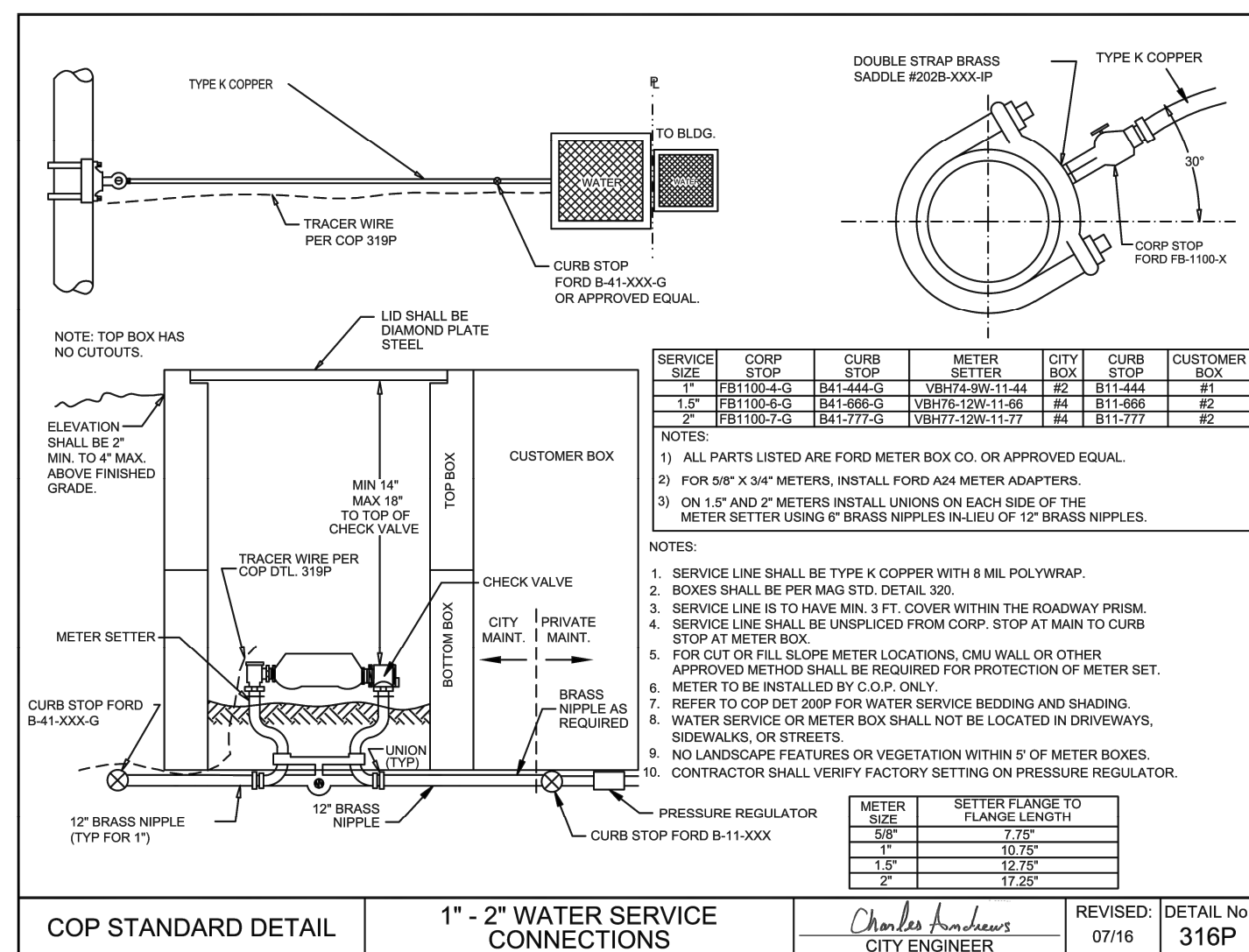
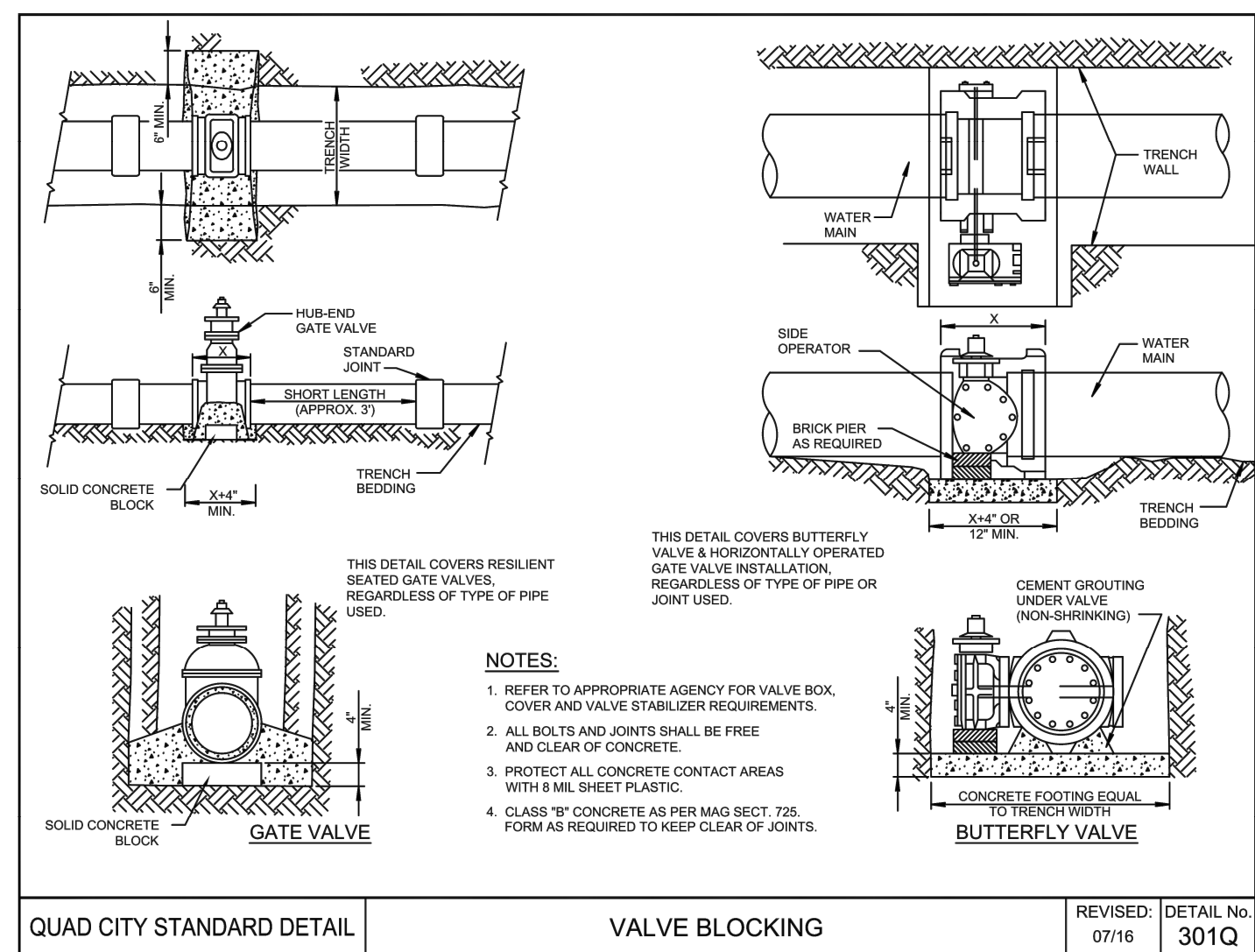
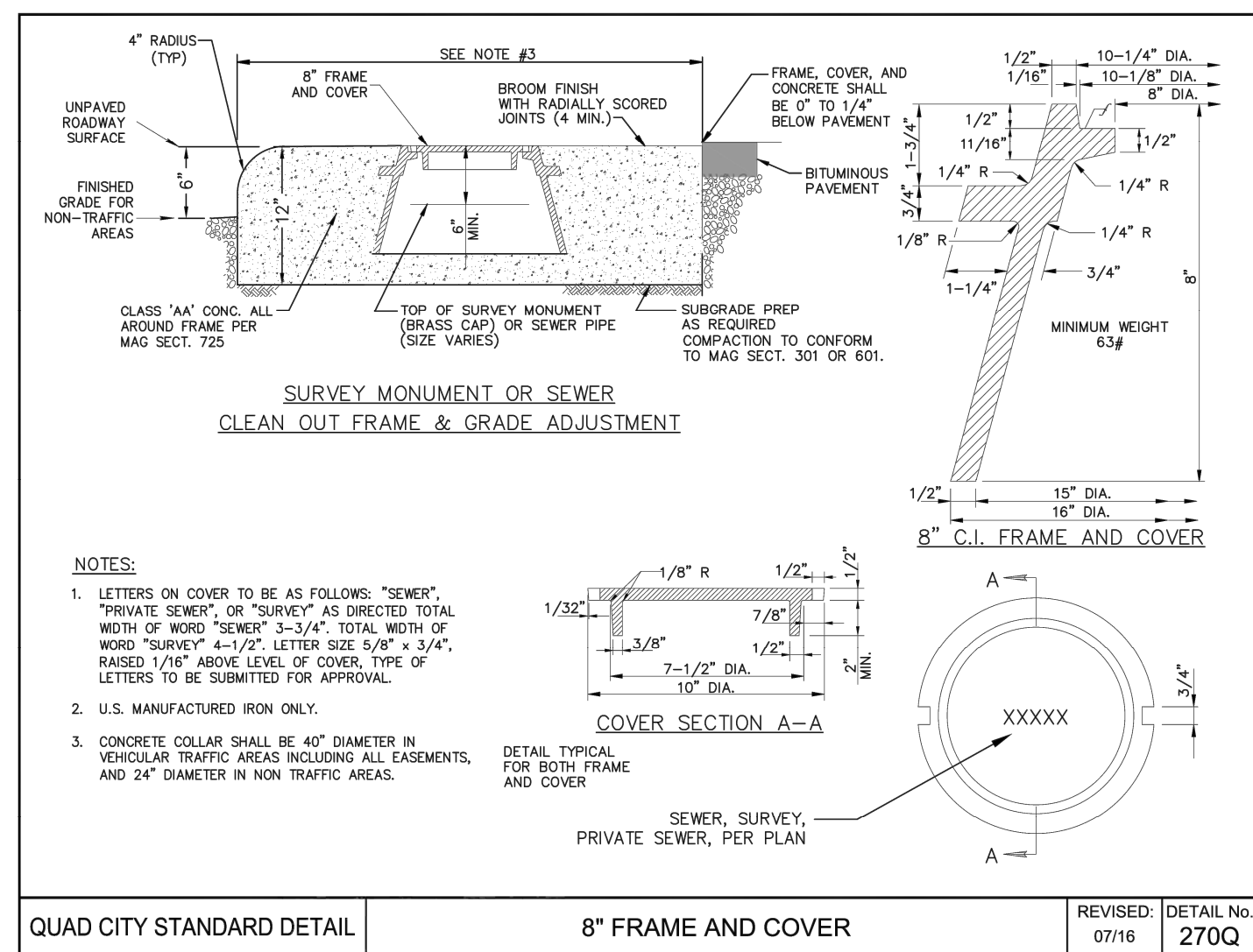
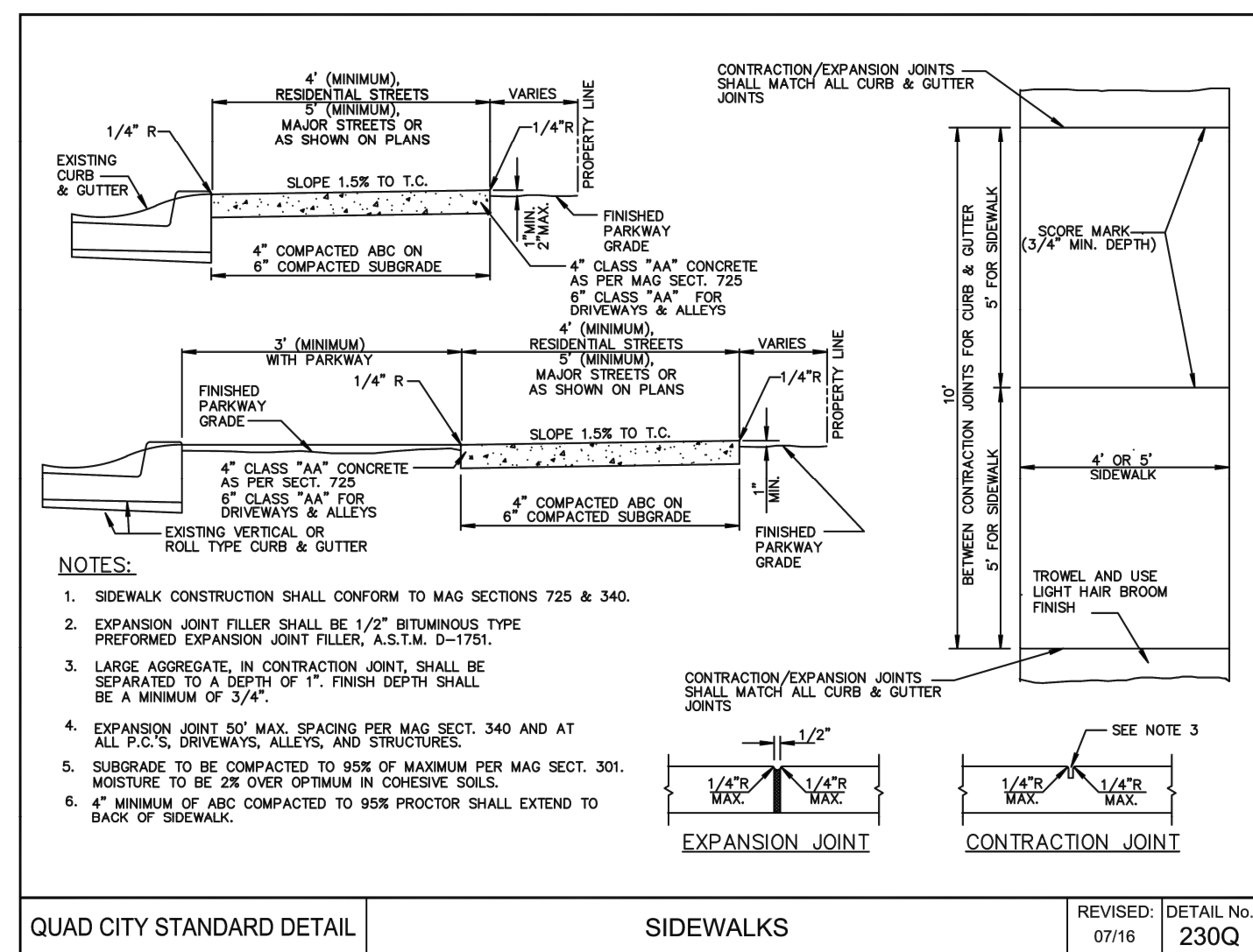
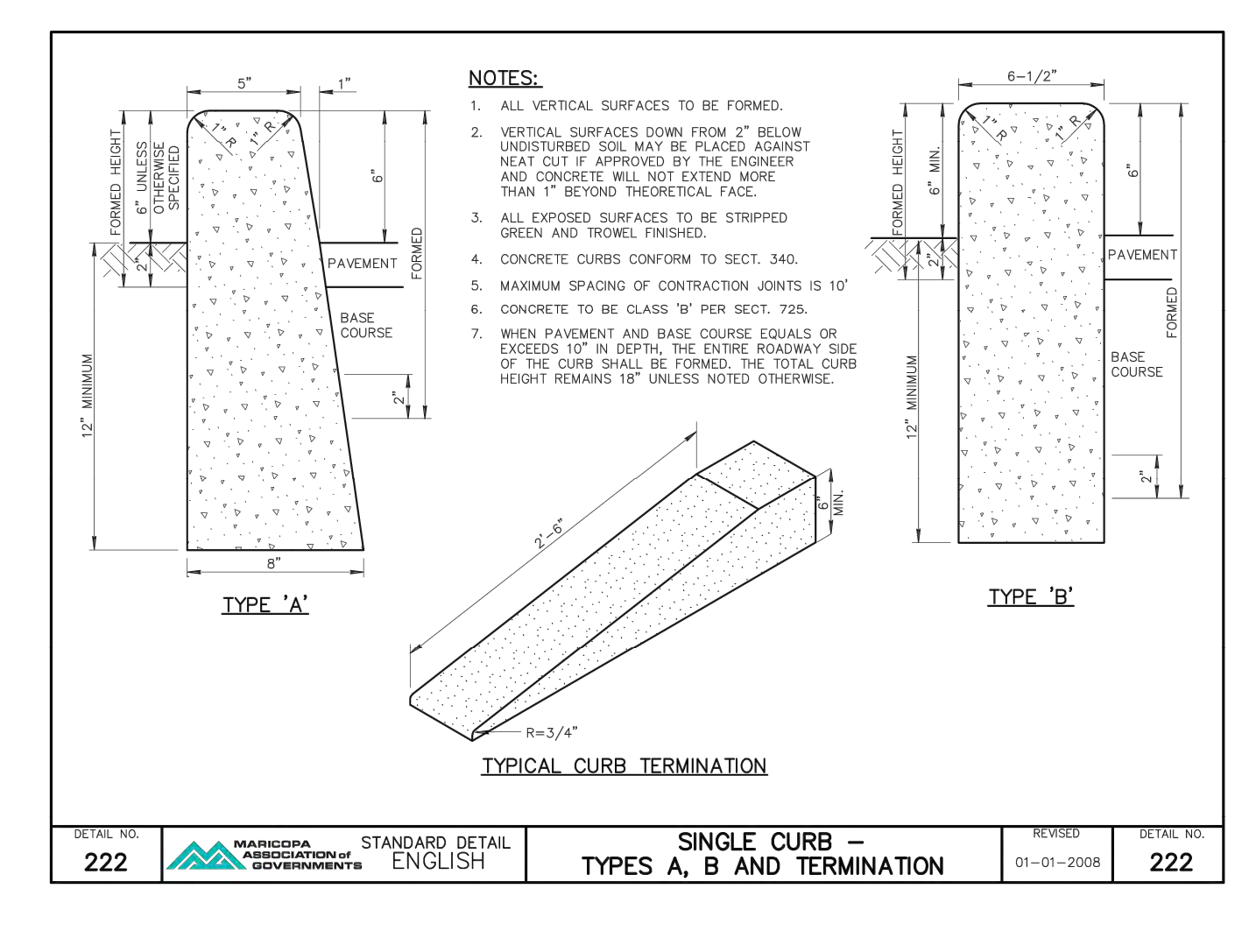
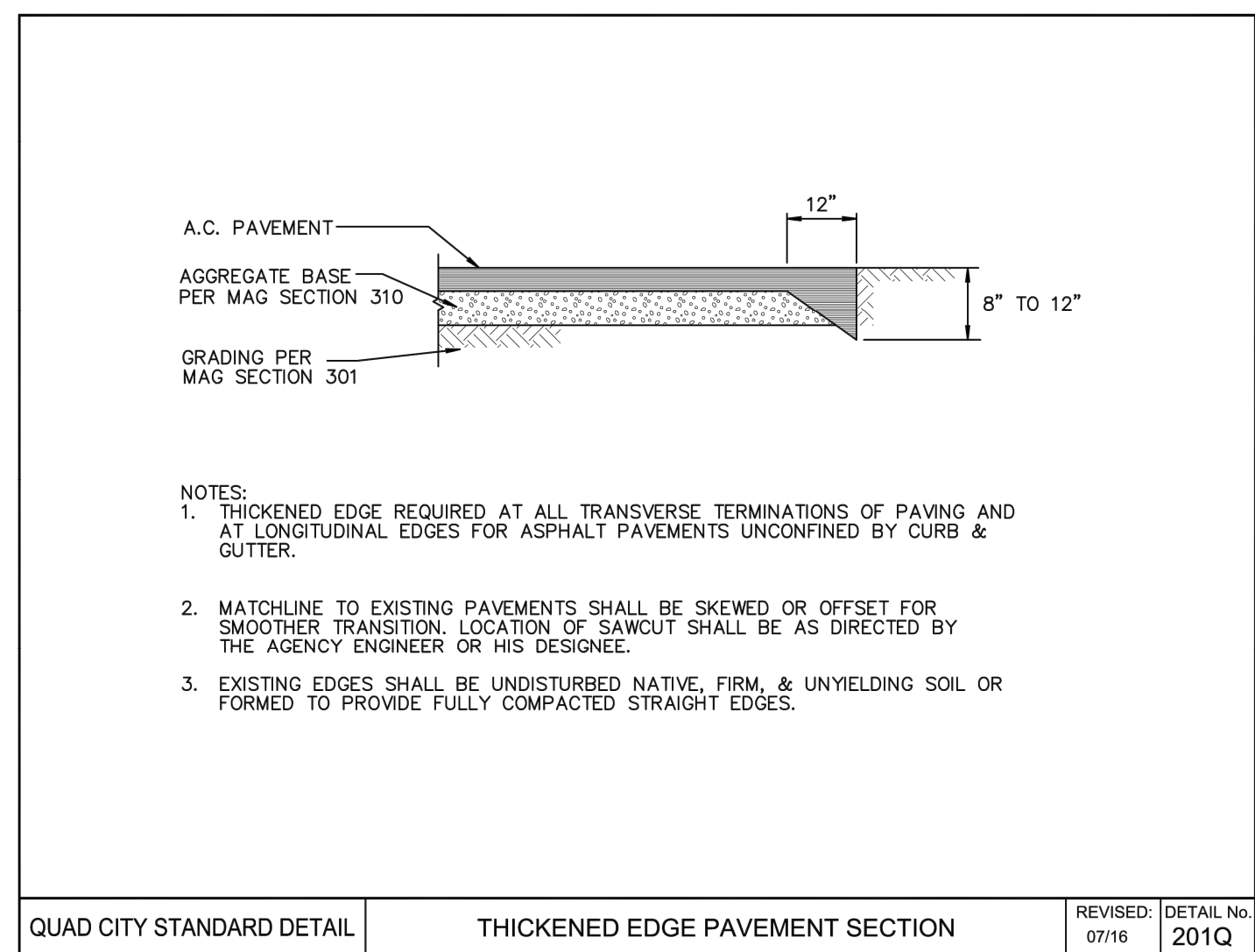
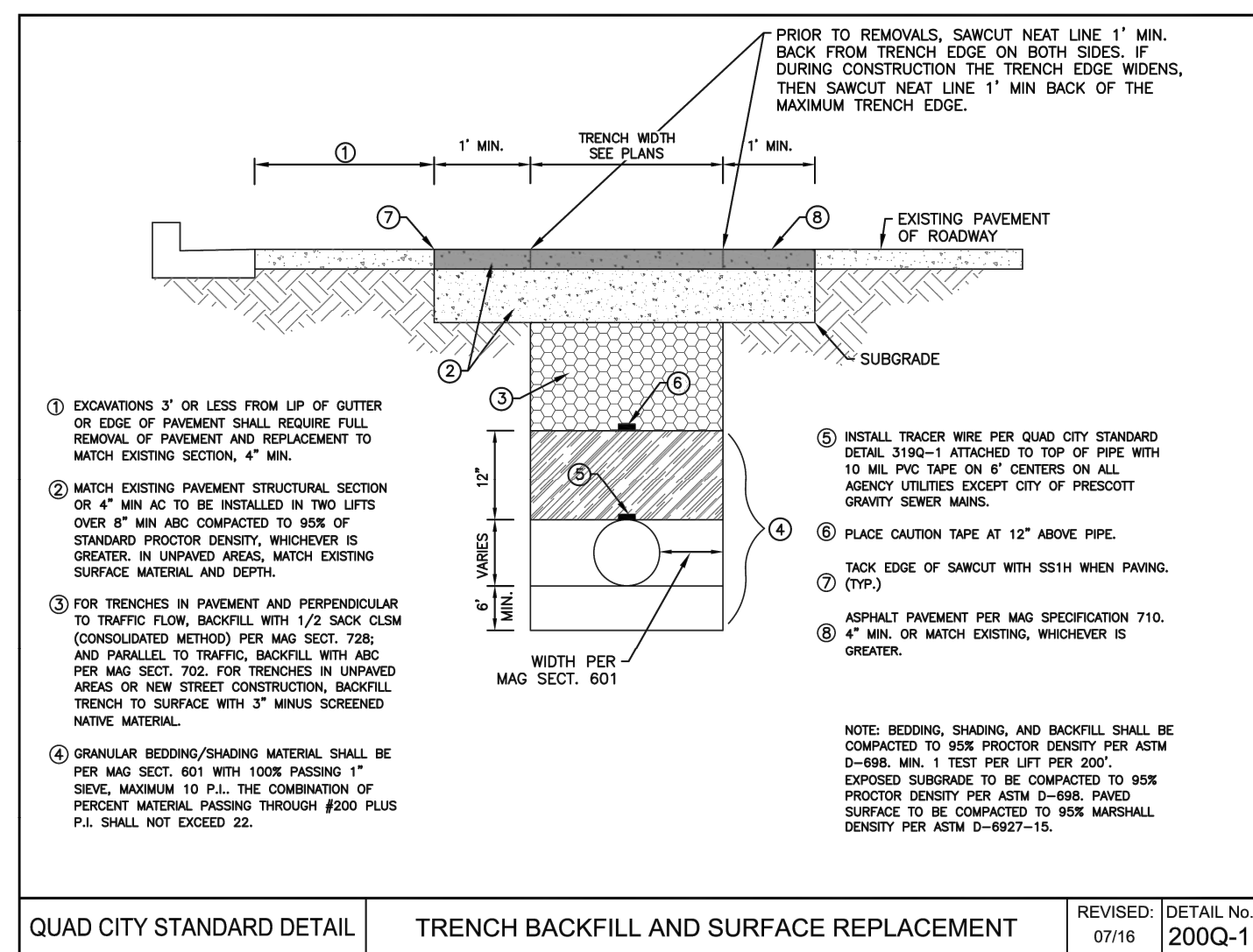
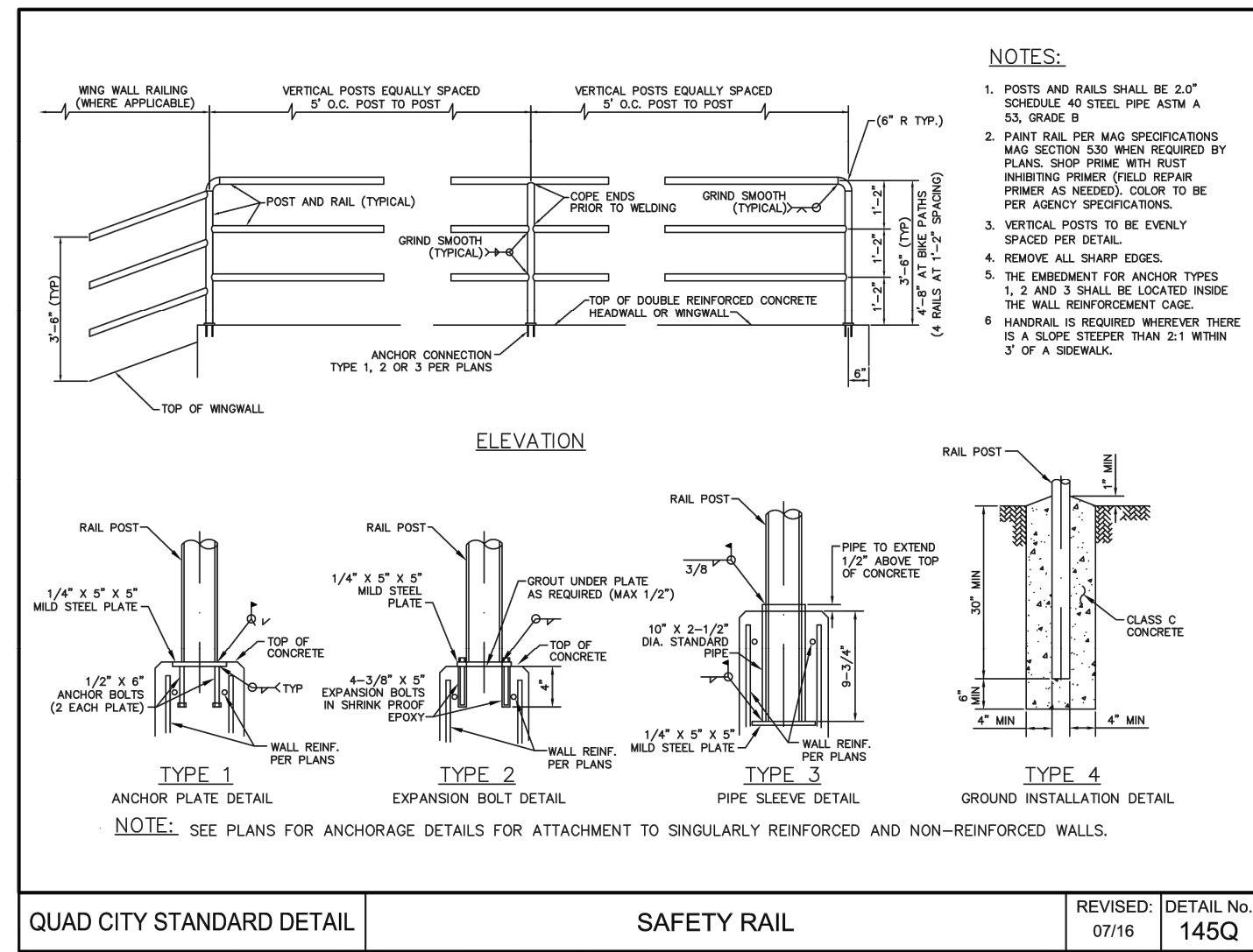
146 GROVE AVENUE  
 PRESCOTT, ARIZONA 86301  
 (928) 771-1730  
 FAX 778-2220  
 gkelley@kelley-wise.com

COMMERCIAL BUILDING ON SIDE ROAD  
 APN: 103-01-038  
 5416 SIDE ROAD  
 PRESCOTT, AZ  
 PROFILES AND SECTIONS

DRAWN	DESIGN	CHECK	DATE	KWE JOB #
ZAJ	ZAJ	GRK	5/8/23	23-014

C-301

SHEET  
 7 OF 9



**SPECIAL NOTES:**  
 THE STANDARD DETAILS AND SPECIFICATIONS SHOWN HEREON HAVE BEEN FORMALLY ADOPTED BY THE CITY OF PRESCOTT. COMPLIANCE WITH THESE STANDARD DETAILS AND SPECIFICATIONS IS REQUIRED IN CONSTRUCTING ALL APPLICABLE PUBLIC IMPROVEMENTS. KELLEY/WISE ENGINEERING IS NOT RESPONSIBLE FOR THE CONTENT OF THE CITY OF PRESCOTT STANDARD DETAILS AND SPECIFICATIONS.

ALL CONCRETE USED IN CONSTRUCTION OF THE STANDARD DETAIL CONCRETE IMPROVEMENTS AS SHOWN HEREON SHALL BE MINIMUM 4500 PSI CONCRETE WITH ENTRAINED AIR, WATER/CEMENT RATIO OF 0.45 AND 18% FLY ASH.

**KELLEY/WISE ENGINEERING, INC.**  
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 PRESCOTT, ARIZONA 86301  
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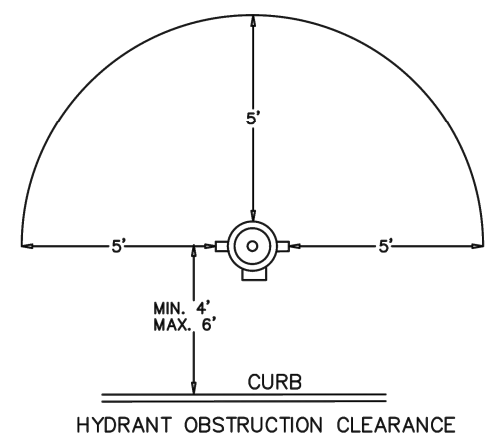
**COMMERCIAL BUILDING ON SIDE ROAD**  
 APN: 103-01-038  
 5416 SIDE ROAD  
 PRESCOTT, AZ

**STANDARD DETAILS**

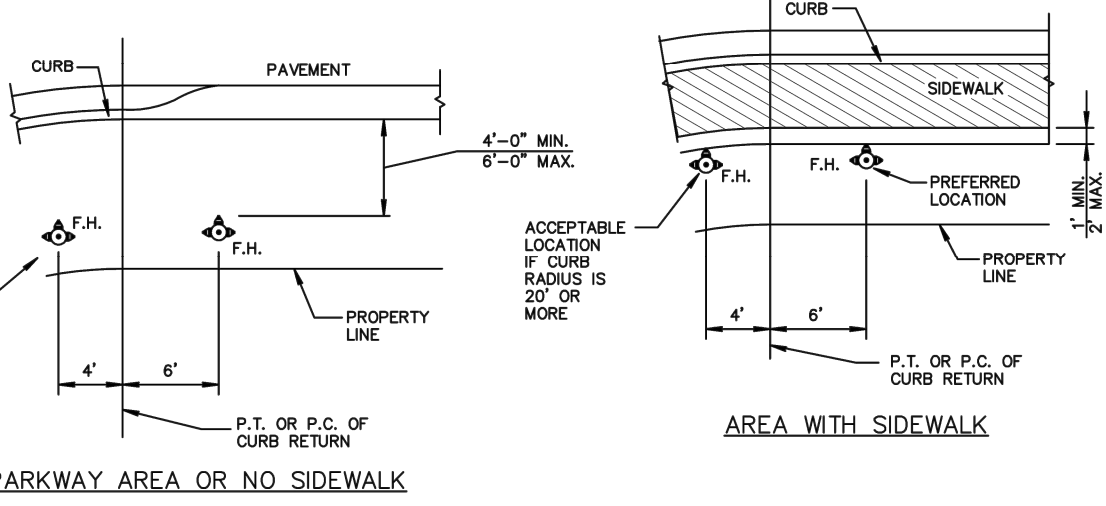
DATE	REVISION	NO.

DRAWN: ZAU  
 DESIGN: ZAU  
 CHECK: GRK  
 DATE: 5/8/23  
 KWE JOB #: 23-014

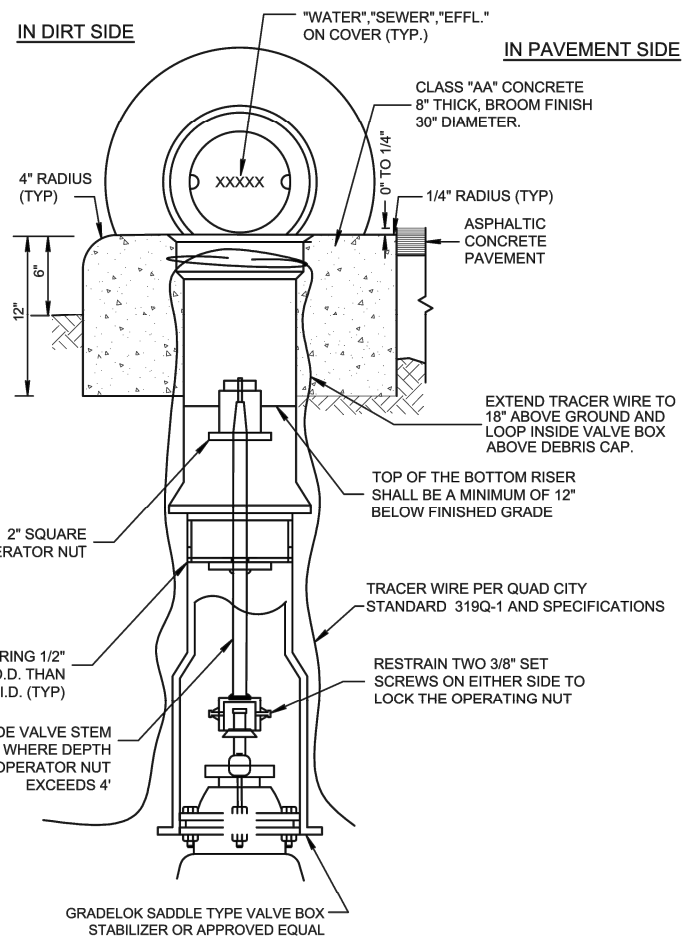
**SHEET C-501**  
 8 OF 9



- NOTES:**
1. OBSTRUCTIONS SUCH AS UTILITY POLES, STREET SIGNS, IRRIGATION BOXES, FENCES, LANDSCAPE VEGETATION, ETC. MUST NOT BE PLACED BETWEEN CURB AND HYDRANT.
  2. SOME LOCATIONS APPLY AT EITHER END OF CURB RETURNS.
  3. ALL HYDRANTS WHICH ARE PRIVATELY MAINTAINED AND OWNED ARE TO BE PAINTED RED.
  4. IN PARKING LOT ISLANDS, HYDRANT TO BE MIN. 3' IN ALL DIRECTIONS FROM BACK OF CURB.
  5. HYDRANTS TO BE CLEAR OF LANDSCAPE & VEGETATION WITHIN A 5' RADIUS.



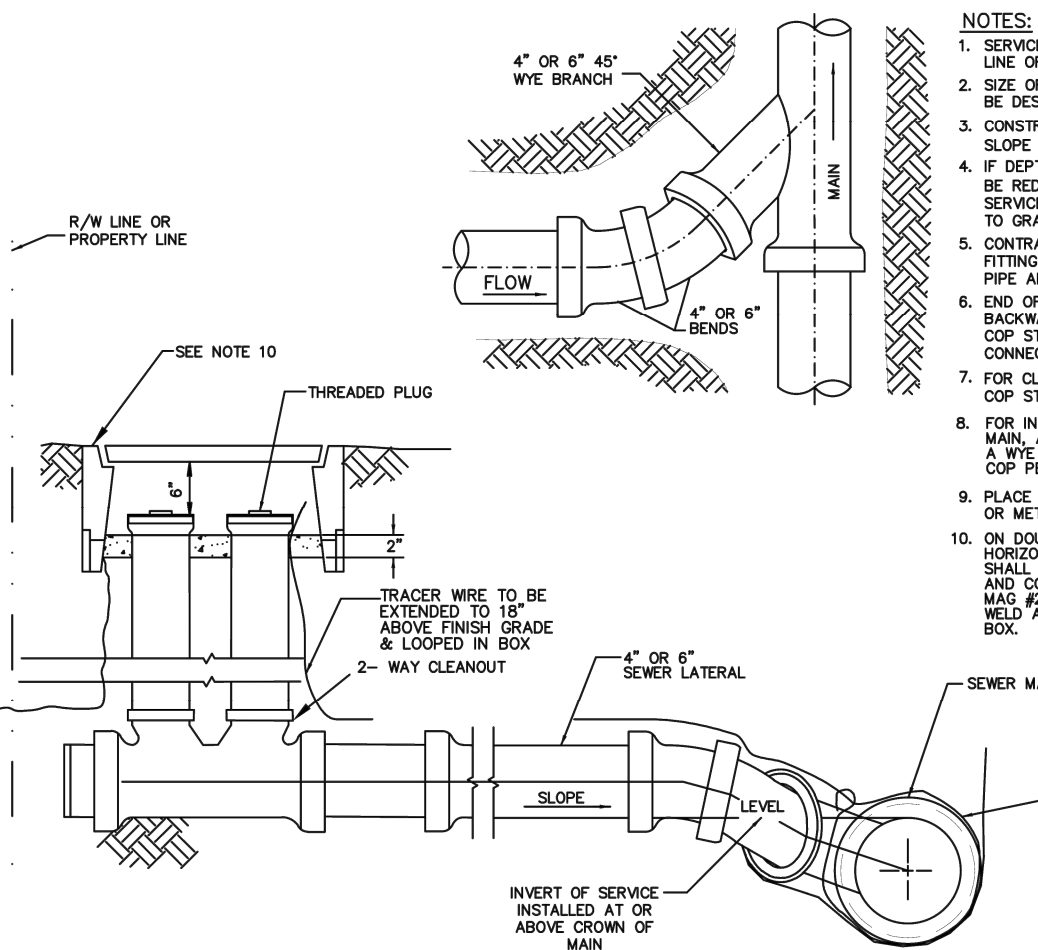
QUAD CITY STANDARD DETAIL LOCATIONS FOR NEW FIRE HYDRANTS REVISED: 07/16 DETAIL No. 362Q



- NOTES:**
1. VALVE BOX SHALL BE ADJUSTED TO THE FINISHED GRADE AFTER PLACING OF THE FINISH PAVEMENT SURFACE.
  2. USE PARKSON TYLER BRASS, APCO OR EQUAL DEEP SINTERED LEAD OR BRASS TYPE SLIDING ADJUSTABLE CAST IRON VALVE BOX (1 MIN. T.S. 30,000 P.S.I.).
  3. ALL VALVES CONNECTED TO EXISTING MAINS ARE TO BE OPERATED BY AGENCY PERSONNEL ONLY.
  4. U.S. MANUFACTURED IRON ONLY.
  5. ALL STEEL FOR EXTENSION TO HAVE SHOP PRIME COAT ZINC CHROMATE AND ONE HEAVY APPLICATION NO. 1010 "A" IN ACCORDANCE WITH MANUFACTURER'S DIRECTION.
  6. DEBRIS CAP PER STD. DETAIL 391Q.
  7. VALVE BLOCKING REQUIRED PER QUAD CITY STANDARD DETAIL 391Q.

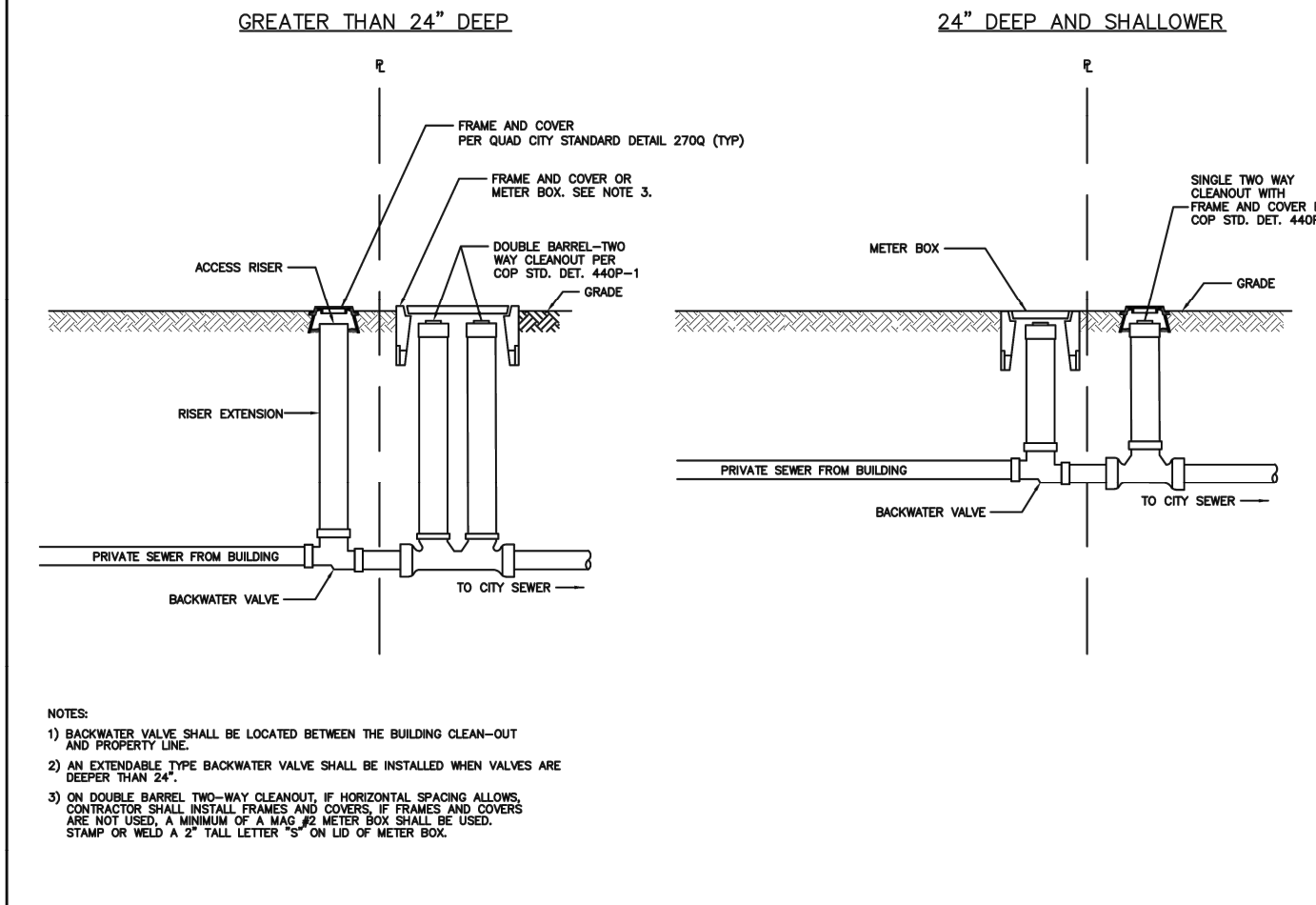
VALVE TYPE	COLOR
IN-LINE SW	BLACK
HYDRANT	BLUE
BUTTERFLY	YELLOW
ZONE	RED
FIRE LINE	WHITE
EFFLUENT	PURPLE
SEWER FORCE MAIN	GREEN

QUAD CITY STANDARD DETAIL VALVE BOX REVISED: 07/16 DETAIL No. 391Q



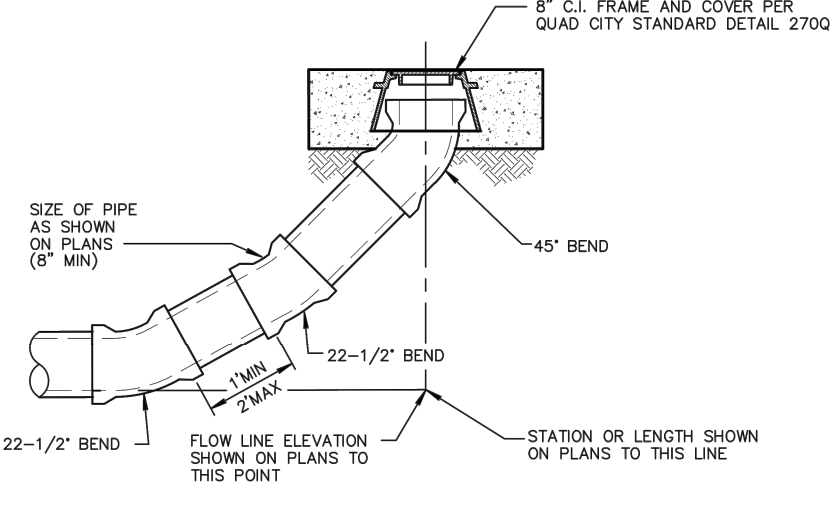
- NOTES:**
1. SERVICE LATERAL EXTENDS TO PROPERTY LINE OR TO EASEMENT LINE.
  2. SIZE OF TAP AND SERVICE LATERAL SHALL BE DESIGNATED ON PLANS.
  3. CONSTRUCT SERVICE LATERAL AT MINIMUM SLOPE OF 1/8" PER FOOT.
  4. IF DEPTH REQUIRES, MINIMUM SLOPE CAN BE REDUCED TO 1/8" PER FOOT PROVIDED SERVICE LATERAL IS SURVEYED & STAKED TO GRADE.
  5. CONTRACTOR SHALL USE THE APPROPRIATE FITTINGS TO ENSURE NO MISALIGNMENT OF PIPE AND NO JOINT INFLECTION.
  6. END OF SERVICE LATERAL TO BE SEALED. BACKWATER VALVE SHALL BE INSTALLED PER COP STD. DETAIL 440P-3 WHEN USED.
  7. FOR CLEANOUTS LESS THAN 24", REFER TO COP STD. DETAIL 440P-2.
  8. FOR INSTALLATION OF A TAP TO AN EXISTING MAIN, A SADDLE TEE SHALL BE USED IN LIEU OF A WYE FITTING. TAPS SHALL BE PERFORMED BY COP PERSONNEL ONLY.
  9. PLACE CONCRETE AROUND PIPE INSIDE FRAME OR METER BOX.
  10. ON DOUBLE BARREL TWO-WAY CLEANOUT, IF HORIZONTAL SPACING ALLOWS, CONSTRUCTION OPERATOR SHALL INSTALL FRAMES AND COVERS. IF FRAMES AND COVERS ARE NOT USED, A MINIMUM OF A 1/2" DIA. 1/2" TALL LETTER SHALL BE USED. STAMP OR WELD A 2" TALL LETTER "S" ON LID OF METER BOX.

COP STANDARD DETAIL SEWER SERVICE LATERAL GREATER THAN 2 FEET DEEP REVISED: 07/16 DETAIL No. 440P-1



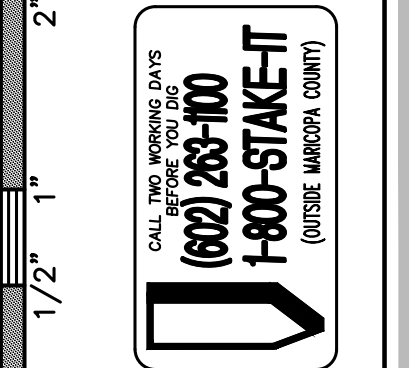
- NOTES:**
- 1) BACKWATER VALVE SHALL BE LOCATED BETWEEN THE BUILDING CLEAN-OUT AND PROPERTY LINE.
  - 2) AN EXTENDABLE FLEX BACKWATER VALVE SHALL BE INSTALLED WHEN VALVES ARE USED IN MAINS.
  - 3) ON DOUBLE BARREL TWO-WAY CLEANOUT, IF HORIZONTAL SPACING ALLOWS, CONSTRUCTION OPERATOR SHALL INSTALL FRAMES AND COVERS. IF FRAMES AND COVERS ARE NOT USED, A MINIMUM OF A 1/2" DIA. 1/2" TALL LETTER SHALL BE USED. STAMP OR WELD A 2" TALL LETTER "S" ON LID OF METER BOX.

COP STANDARD DETAIL BACKWATER VALVE REVISED: 07/16 DETAIL No. 440P-3



- NOTES:**
1. NO SERVICE TAPS SHALL BE LOCATED CLOSER THAN 4 FEET DOWNSTREAM OF FIRST BEND.
  2. ALL JOINTS ARE TO BE WATER TIGHT.
  3. CLEAN OUTS SHALL NOT BE PLACED IN VALLEY GUTTERS, SPANDRELS, CURB & GUTTERS, CATCH BASINS, OR OTHER DRAINAGE STRUCTURES.
  4. CLEAN OUTS INSTALLED OFF SITE REQUIRE CARBONITE MARKERS RUNNING PARALLEL TO THE LINE, AS DIRECTED BY AGENCY ENGINEER.
  5. BEDDING AND SHADING PER QUAD CITY STANDARD DETAIL 200Q.
  6. PLACE CONCRETE AROUND 45° BEND INSIDE FRAME AND COVER.

QUAD CITY STANDARD DETAIL SEWER MAIN CLEANOUT REVISED: 07/16 DETAIL No. 441Q



NO.	REVISION	DATE

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 146 GROVE AVENUE  
 PRESCOTT, ARIZONA 86301  
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COMMERCIAL BUILDING ON SIDE ROAD  
 APN: 103-01-038  
 5416 SIDE ROAD  
 PRESCOTT, AZ  
 STANDARD DETAILS



DRAWN	DESIGN	CHECK	DATE	KWE JOB #
ZAJ	ZAJ	GRK	5/8/23	23-014

SHEET  
**C-502**  
 9 OF 9

**SPECIAL NOTES:**  
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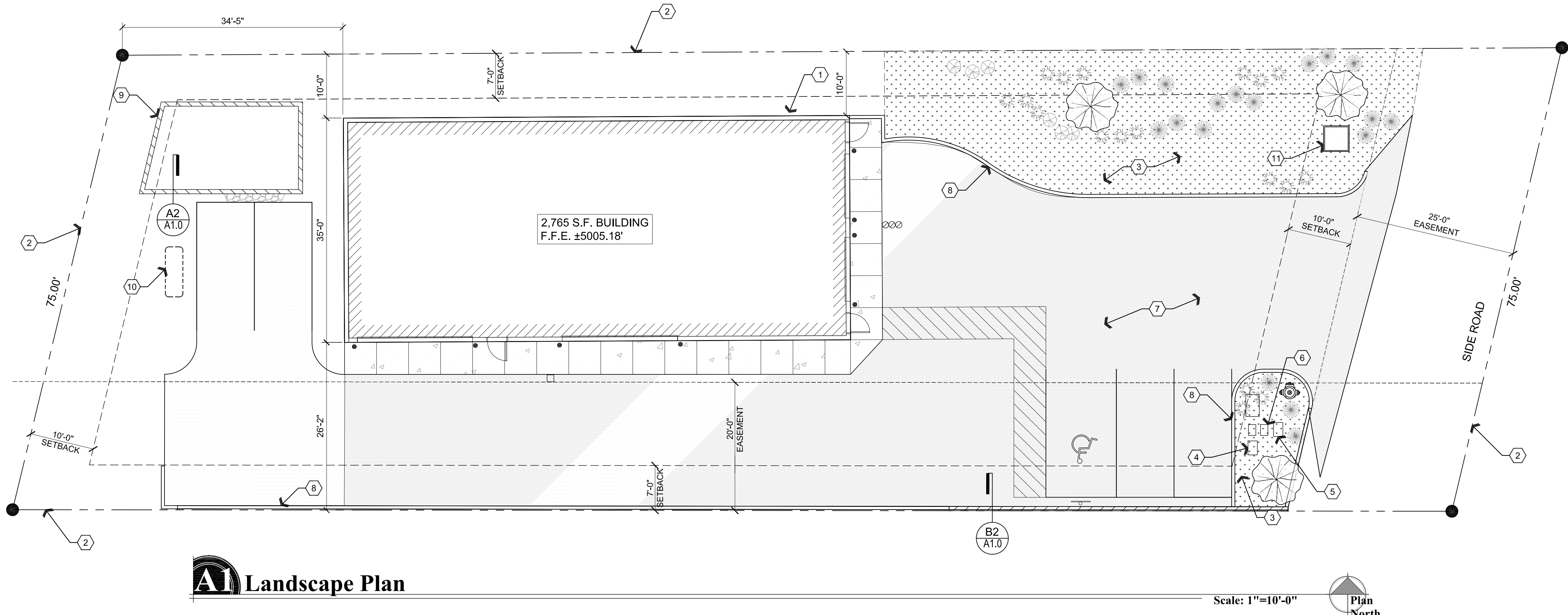
Legend	
	RIP RAP
	NEW ASPHALTIC PAVEMENT
	COMPACTED ABC
	LANDSCAPE AREA

Plant Schedule			
SYMBOL	SIZE	QUANTITY	COMMON NAME / SCIENTIFIC NAME
	1 GAL	18	RED YUCCA
	1 GAL	6	PRAIRIE SAGE
	5 GAL	18	BLUE CHIP JUNIPER
	15 GAL	3	HONEY LOCUST

LANDSCAPED AREAS:  
 TOTAL TREES PROVIDED: 3  
 TOTAL SHRUBS PROVIDED: 42

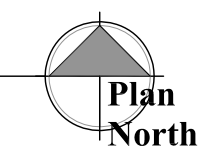
- NOTES:
- LANDSCAPE PLANTINGS SHALL BE WATERED VIA DRIP IRRIGATION SYSTEM ON LANDSCAPE TIME CLOCK.
  - PROVIDE BACKFLOW PREVENTOR FOR DRIP IRRIGATION SYSTEM.
  - SPRAY ALL GROUND COVER AREAS W/ PRE-EMERGENT FOR WEED CONTROL.
  - PROVIDE WEED BARRIER IN ALL PLANTER AREAS.
  - GROUND COVER IN ALL PLANTER AREAS SHALL BE 3/4" COLORED ROCK, UNLESS NOTED OTHERWISE. WHERE SLOPES ARE TOO STEEP, PROVIDE 2" - 3" FRACTURED RIP RAP OF MATCHING COLOR.
  - REFER TO CIVIL PLANS FOR GRADING AND DRAINAGE.

- Descriptive Keynotes**
- PROVIDE LANDSCAPE TIMER.
  - PROPERTY LINE.
  - LANDSCAPE AREA. PROVIDE GROUND COVER. REFER TO PLANT SCHEDULE NOTES.
  - DOMESTIC SERVICE WATER METER IN YARD BOX. REFER TO CIVIL PLANS.
  - BACKFLOW PREVENTOR FOR LANDSCAPE IRRIGATION SYSTEM. PROVIDE 120V DEDICATED ELECTRICAL CIRCUIT WITH WEATHERPROOF GFCI DUPLEX OUTLET WITHIN ENCLOSURE.
  - 3/4" VALVED SCHEDULE 40 PVC STUB-OUT IN BELOW GRADE YARD BOX FOR LANDSCAPE IRRIGATION SYSTEM.
  - ASPHALTIC PAVEMENT, REFER TO CIVIL PLANS.
  - CAST-IN-PLACE CONCRETE CURB. REFER TO CIVIL PLANS.
  - DETENTION AREA WITH RIP RAP, REFER TO CIVIL PLANS.
  - ABOVE GROUND PROPANE TANK.
  - ELECTRICAL TRANSFORMER.



**Landscape Plan**

Scale: 1"=10'-0"



REVISIONS	BY

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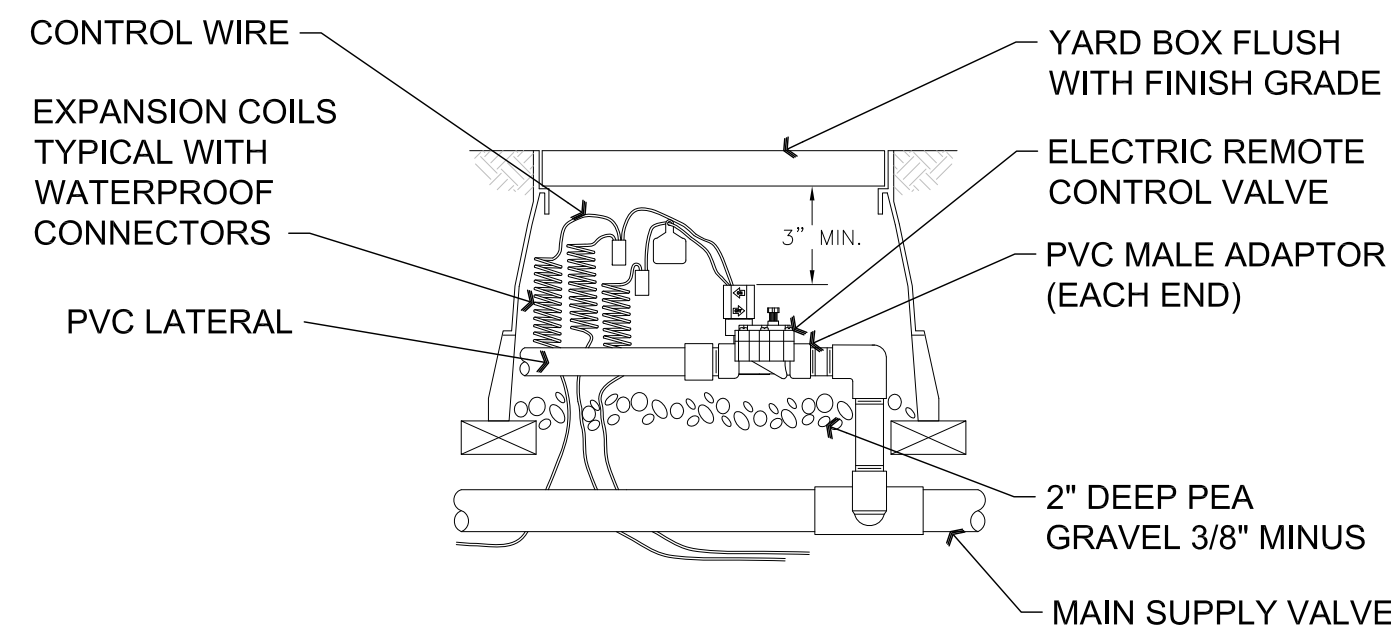


**W. Alan Kenson & Associates, P.C.**  
 P 928-443-5812 P.O. Box 11593  
 F 928-443-5815 Prescott, AZ 86304  
 email: waka@cableone.net  
 www.kenson-associates.com  
**ARCHITECTURE & PLANNING**

**DRAWING:** Landscape Plan  
**PROJECT:** Commercial Building on Side Rd.  
 5416 Side Rd.  
 Prescott, AZ 86301  
**APN:** 105-01-038

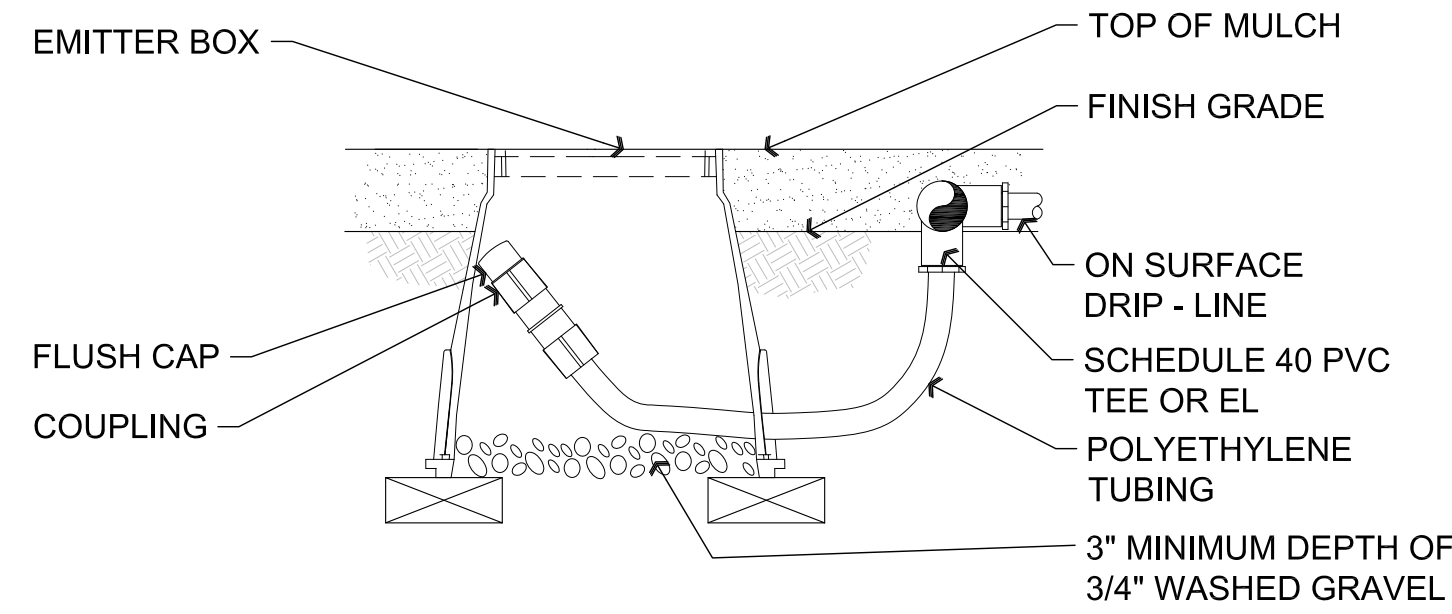
DRAWN BY: L.O.  
 CHECKED BY: W.A.K.  
 DATE: June 30th, 2023  
 JOB NO.: 777  
 SHEET

**L1.0**



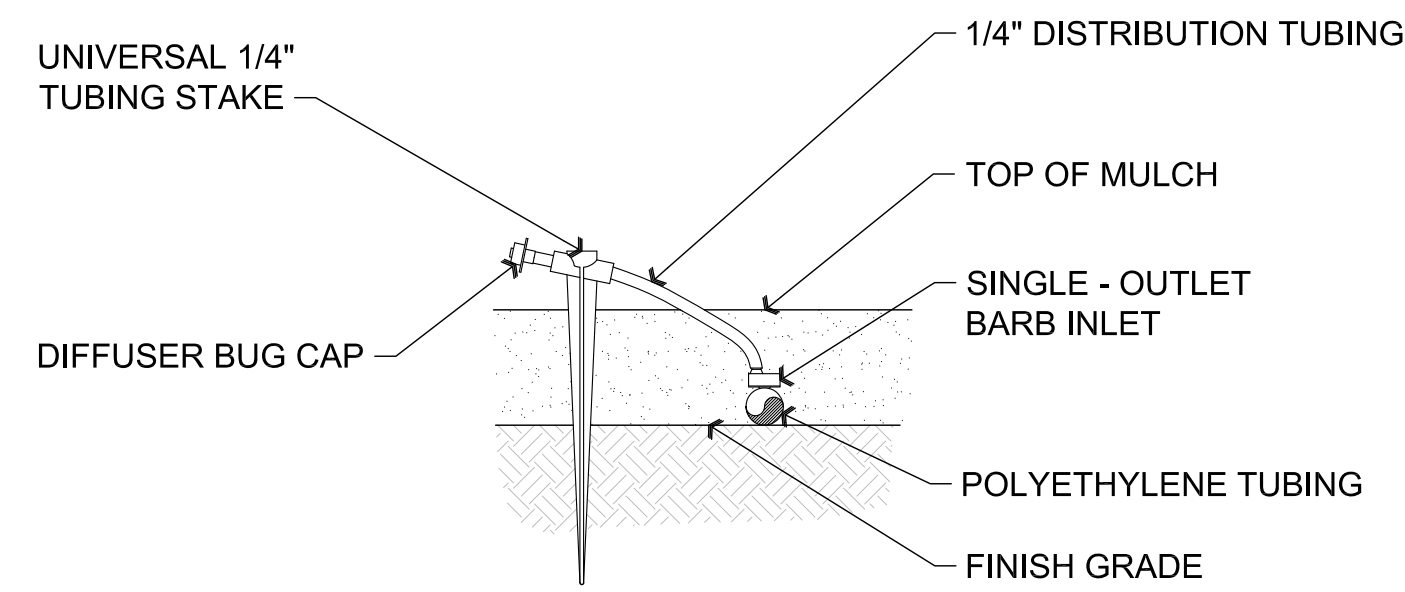
NOTE: SEAL ALL THREADED JOINTS / FITTINGS WITH APPROVED SEALANT PRIOR TO ASSEMBLY

### A4 Typical Electric Remote Control Valve



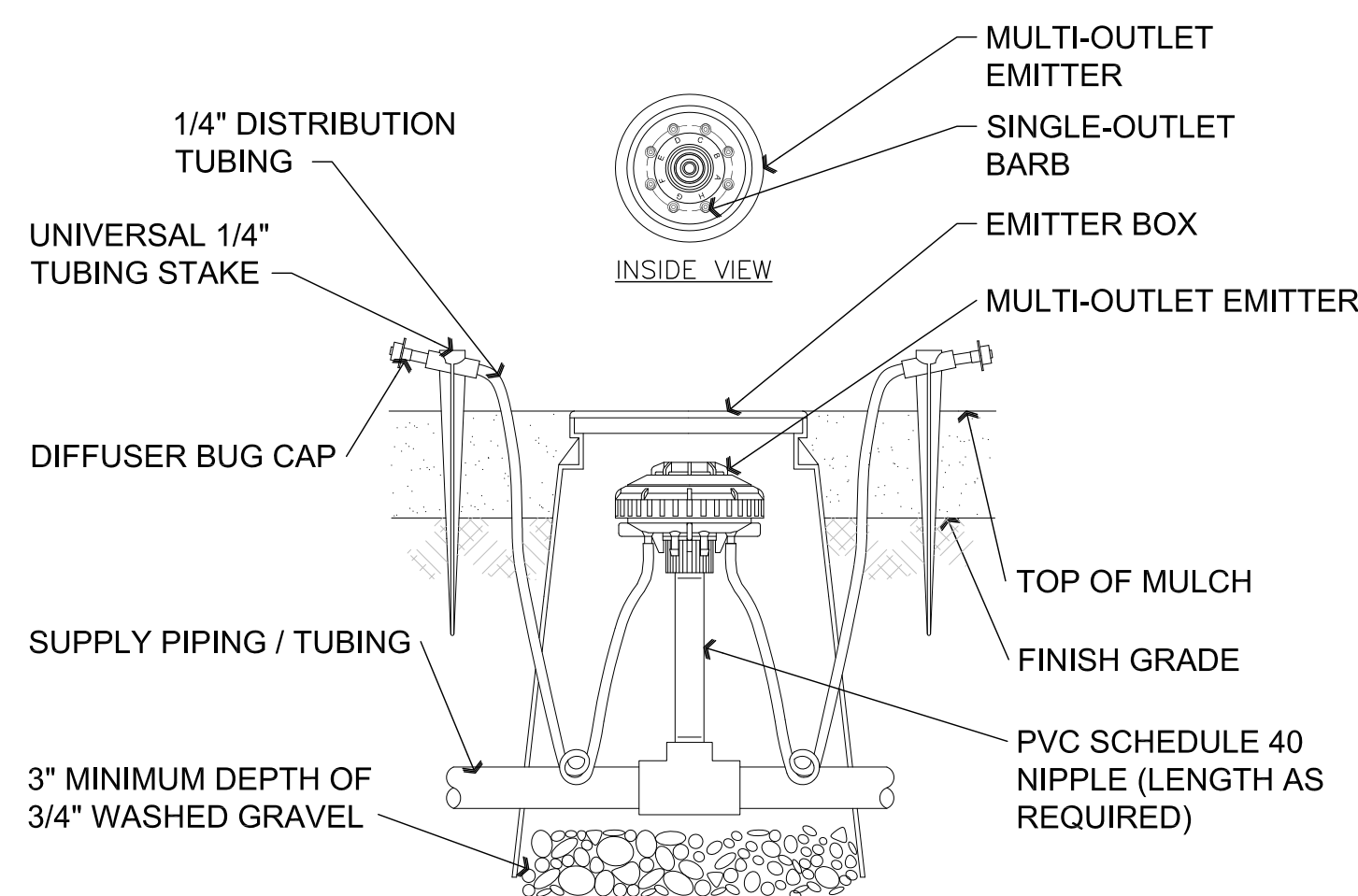
NOTE: ALLOW A MINIMUM 6" OF DRIP - LINE TUBING IN VALVE BOX IN ORDER TO DIRECT FLUSHED WATER OUTSIDE VALVE BOX.

### B4 Typical Drip Line Flush Box



NOTE: FOR SLOPED CONDITIONS PLACE DISTRIBUTION POINT AT THE HIGH POINT OF THE PLANTING WELL.

### B3 Typical Single - Port Emitter

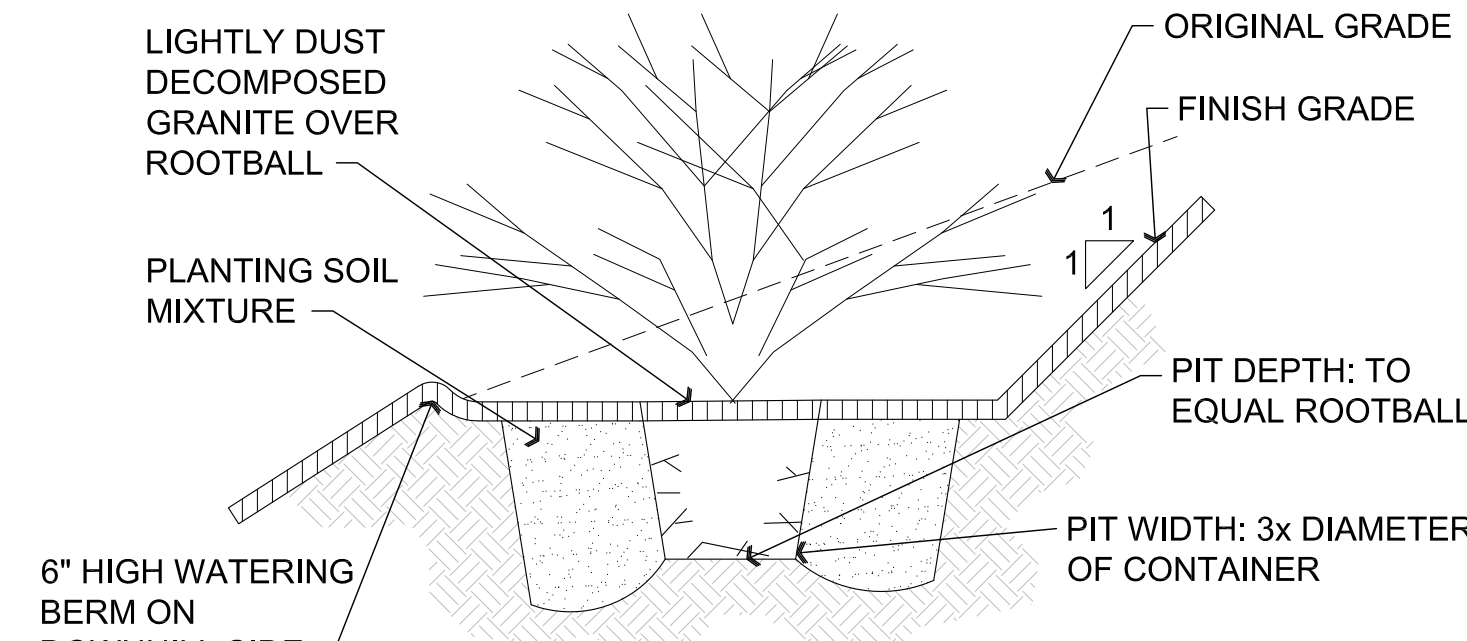


NOTE: COIL ADDITIONAL 9" OF TUBING IN EMITTER BOX TO FACILITATE MAINTENANCE.

INSTALL A MINIMUM OF (1) MULTI-PORT EMITTER PER TREE - EQUALLY SPACED AROUND DRIP LINE OF TREE CANOPY TYPICAL. OPEN ADDITIONAL PORTS AND INSTALL SPAGHETTI DISTRIBUTION TUBING TO PROVIDE ADEQUATE WATER AS TREE MATURES. (TYP.)

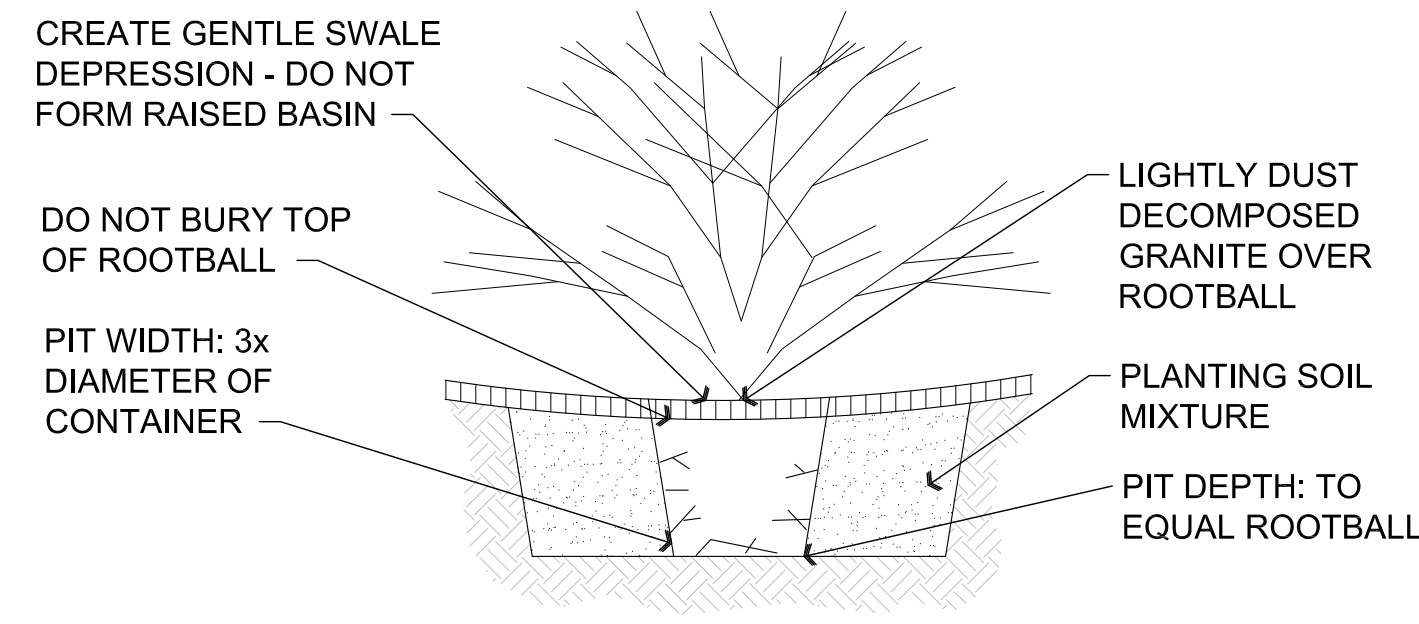
FOR SLOPED CONDITIONS PLACE DISTRIBUTION POINT AT THE HIGH POINT OF PLANTING WELL.

### B1 Typical Multi - Port Emitter



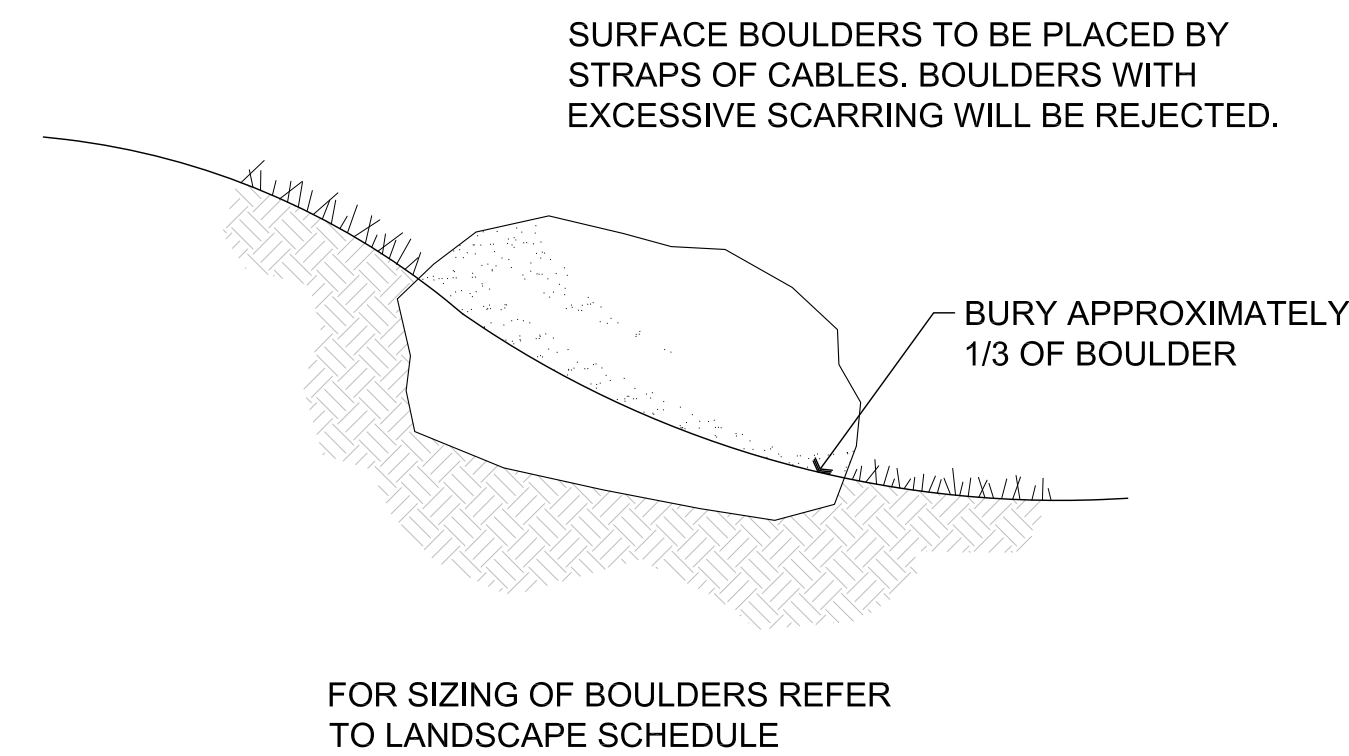
PLANTS SHALL BE INSPECTED FOR ROOTBOUND CONDITIONS BEFORE PLANTING. ANY ROOTBOUND PLANT SHALL BE REPLACED WITH SUITABLE PLANT.

### C4 Typical Shrub Planting on Slope

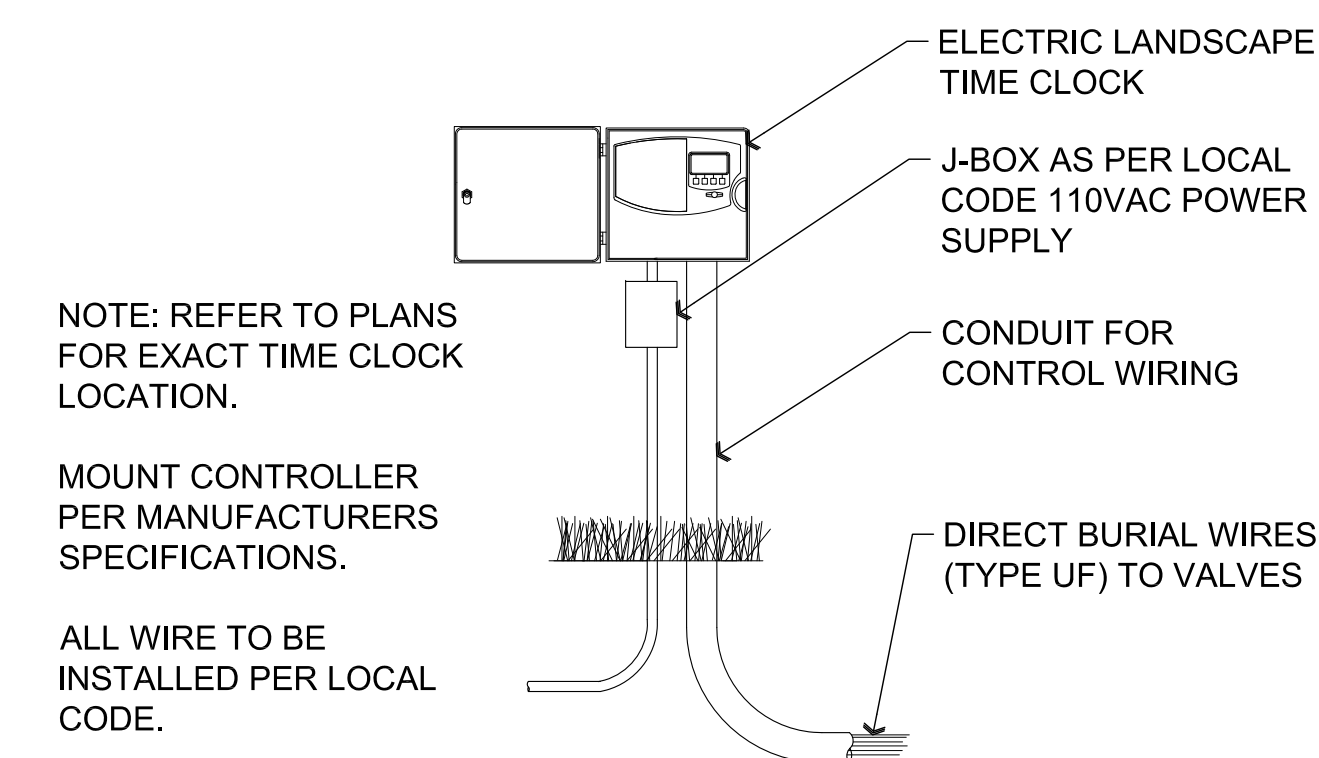


PLANTS SHALL BE INSPECTED FOR ROOTBOUND CONDITIONS BEFORE PLANTING. ANY ROOTBOUND PLANT SHALL BE REPLACED WITH SUITABLE PLANT.

### C3 Typical Shrub Planting



### C2 Typical Boulder Detail

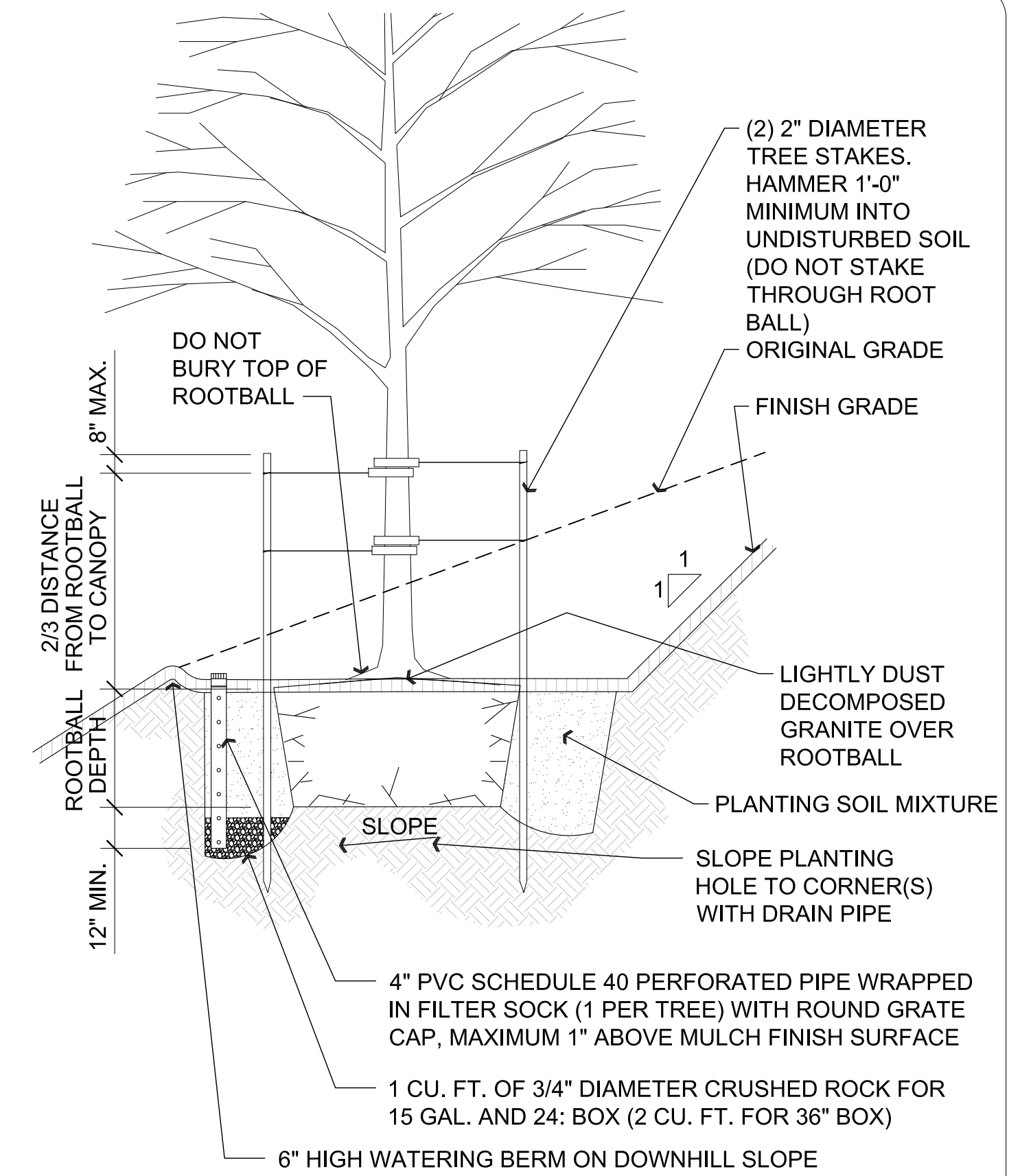


NOTE: REFER TO PLANS FOR EXACT TIME CLOCK LOCATION.

MOUNT CONTROLLER PER MANUFACTURERS SPECIFICATIONS.

ALL WIRE TO BE INSTALLED PER LOCAL CODE.

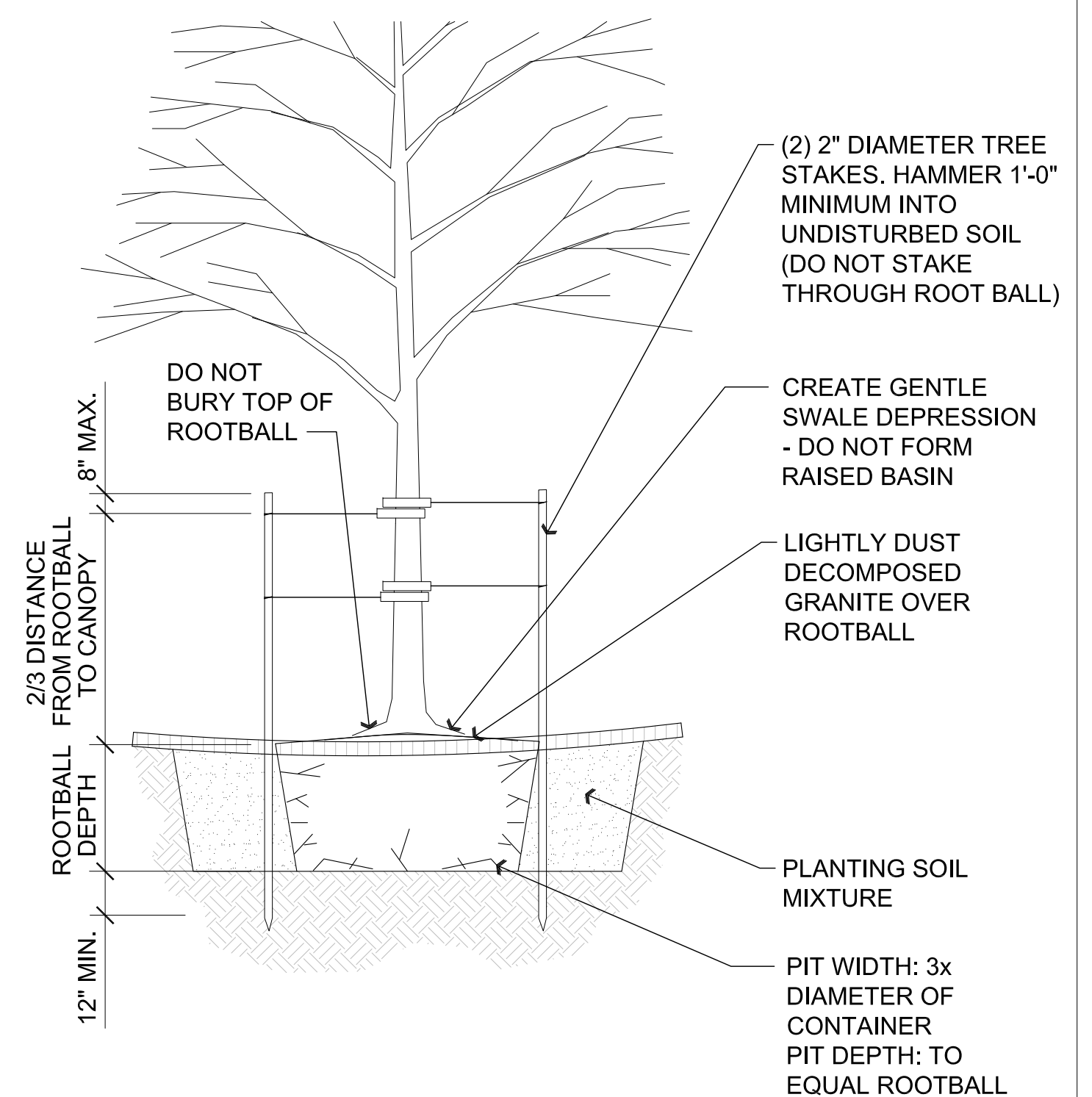
### C1 Typical Electric Landscape Time Clock



NOTE: STAKE TREE PERPENDICULAR TO DIRECTION OF PREVAILING WIND.

PLANTS SHALL BE INSPECTED FOR ROOTBOUND CONDITIONS BEFORE PLANTING. ANY ROOTBOUND PLANT SHALL BE REPLACED WITH SUITABLE PLANT.

### D3 Typical Tree Planting on Slope



NOTE: STAKE TREE PERPENDICULAR TO DIRECTION OF PREVAILING WIND.

PLANTS SHALL BE INSPECTED FOR ROOTBOUND CONDITIONS BEFORE PLANTING. ANY ROOTBOUND PLANT SHALL BE REPLACED WITH SUITABLE PLANT.

### D1 Typical Tree Planting

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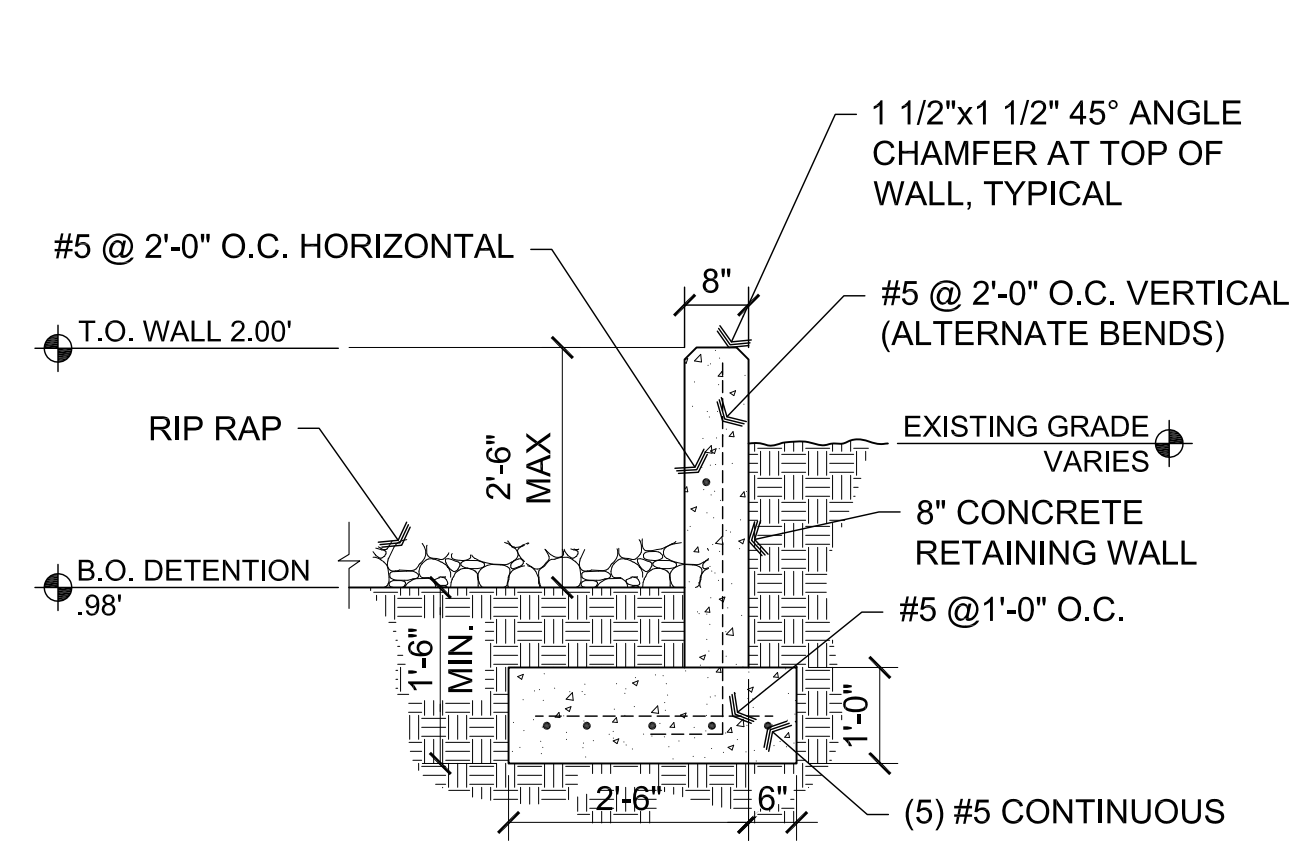


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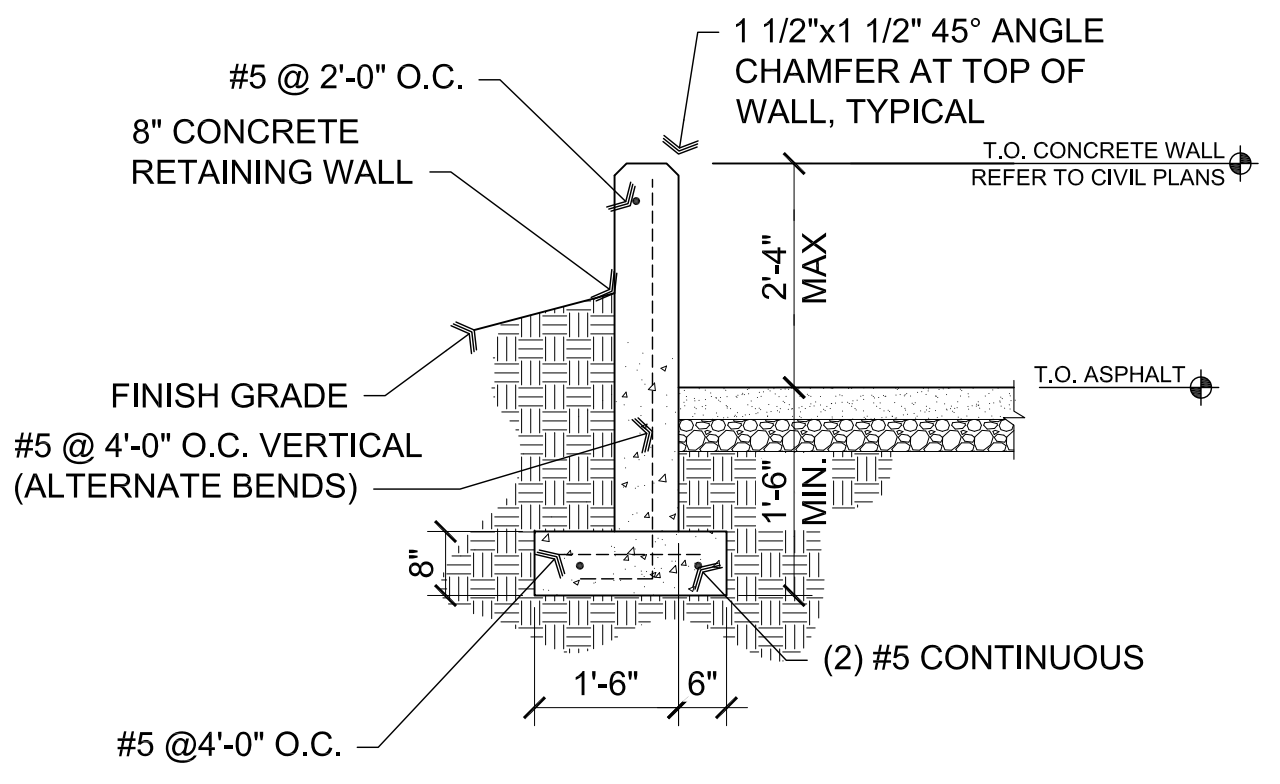
DRAWING: Landscape Details  
 PROJECT: Commercial Building on Side Rd.  
 5416 Side Rd.  
 Prescott, AZ 86301  
 APN: 103-01-038

DRAWN BY L.O.  
 CHECKED BY W.A.K.  
 DATE June 30th, 2023  
 JOB NO. 777  
 SHEET

**L1.1**



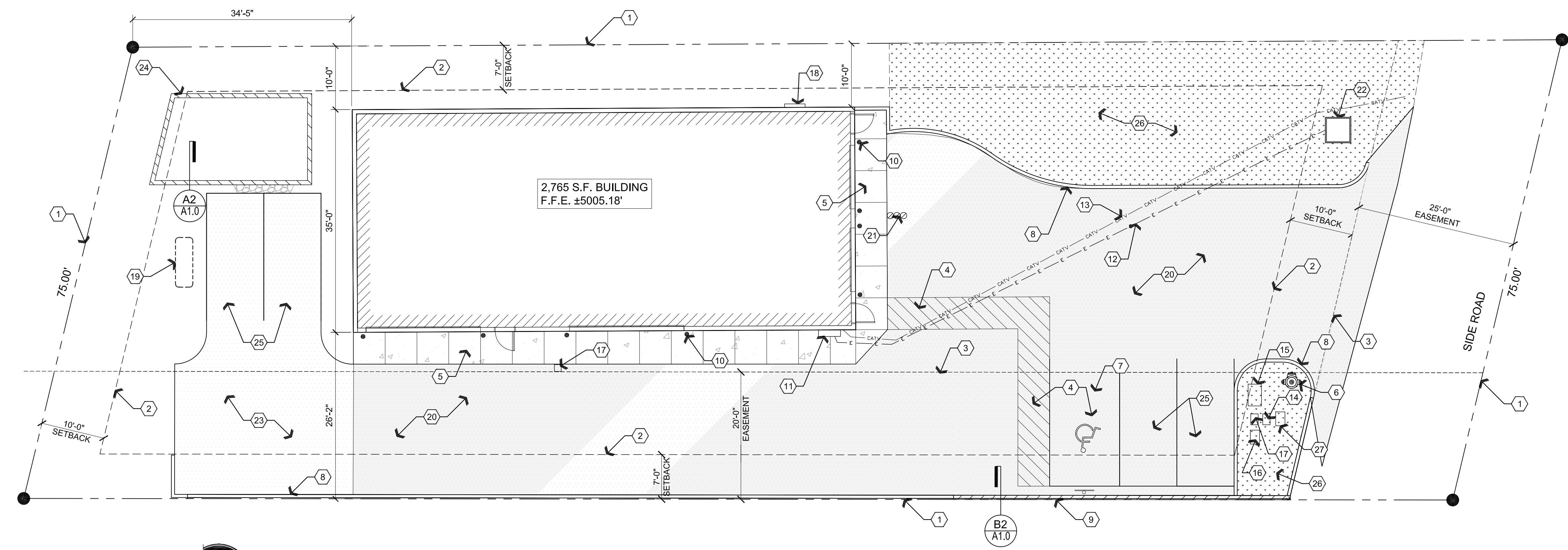
**A2 Detention Area Section**  
SCALE: 1/2" = 1'-0"



**B2 Curb Section**  
SCALE: 1/2" = 1'-0"

- ### Descriptive Keynotes
- PROPERTY LINE.
  - BUILDING SETBACK LINE.
  - EASEMENT LINE.
  - THE MAXIMUM SLOPE OF THE A.D.A. ACCESSIBLE PARKING AREA SHALL NOT EXCEED 2% AND THE SLOPE OF THE DOORWAY LANDING AND ACCESSIBLE ROUTE TO PUBLIC ACCESS SHALL NOT EXCEED 2%.
  - PROPOSED CONCRETE PAVEMENT OVER COMPACTED A.B.C., REFER TO CIVIL PLANS.
  - PROPOSED FIRE HYDRANT, REFER TO CIVIL PLANS.
  - PROPOSED ADA ACCESSIBLE PARKING.
  - PROPOSED CAST IN PLACE CONCRETE CURB, REFER TO CIVIL PLANS.
  - PROPOSED CONCRETE RETAINING WALL.
  - PROPOSED 6'-0" LONG, 4" DIAMETER, CONCRETE FILLED, PROTECTIVE STEEL BOLLARDS, EMBEDDED 2'-0" BELOW GRADE INTO CONCRETE FOOTING. TYPICAL AT EACH ROLL-UP DOOR AND AS INDICATED ELSEWHERE.
  - PROPOSED ELECTRICAL SERVICE ENTRANCE SECTION.
  - PROPOSED DB 120 ELECTRICAL CONDUIT.
  - PROPOSED DB 120 CATV CONDUIT.
  - 3/4" VALVED SCHEDULE 40 PVC STUB-OUT IN BELOW GRADE YARD BOX FOR LANDSCAPE IRRIGATION SYSTEM.
  - PROPOSED REDUCED PRESSURE BACKFLOW PREVENTION DEVICE IN ASSE HOT BOX.
  - PROPOSED DOMESTIC WATER METER.
  - PROPOSED WATER SHUT OFF VALVE.
  - LANDSCAPE TIMER.
  - ABOVE GROUND PROPANE TANK.
  - PROPOSED ASPHALTIC PAVEMENT, REFER TO CIVIL PLANS.
  - PROPOSED TWO WAY SEWER CLEANOUT AND BACKWATER VALVE.
  - PROPOSED ELECTRIC TRANSFORMER.
  - 4" COMPACTED ABC.
  - PROPOSED DETENTION AREA, REFER TO CIVIL PLANS.
  - PROPOSED PARKING SPACE, TYPICAL.
  - PROPOSED LANDSCAPE AREA, REFER TO LANDSCAPE PLAN.
  - PROPOSED DRIP IRRIGATION SYSTEM BACKFLOW PREVENTOR IN HOT BOX.

PARKING CALCULATIONS	
STORAGE 2,625 S.F. / 500 S.F. = 5.2 PARKING SPACES	
TOTAL PARKING SPACES PROVIDED =5	



**A1 Architectural Site Plan**

Scale: 1"=10'-0"  
Plan North

REVISIONS	BY

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**DRAWING:** Proposed Site Plan

**PROJECT:** Commercial Building on Side Rd.  
5416 Side Rd.  
Prescott, AZ 86301

**APN:** 105-01-038

DRAWN BY L.O.
CHECKED BY W.A.K.
DATE June 30th, 2023
JOB. NO. 777
SHEET

**A1.0**

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**ARCHITECTURE & PLANNING**

**DRAWING:** Reference / Dimension / Wall Types Floor Plan  
**PROJECT:** Commercial Building on Side Rd.  
 5416 Side Rd.  
 Prescott, AZ 86301  
**APN:** 103-01-038

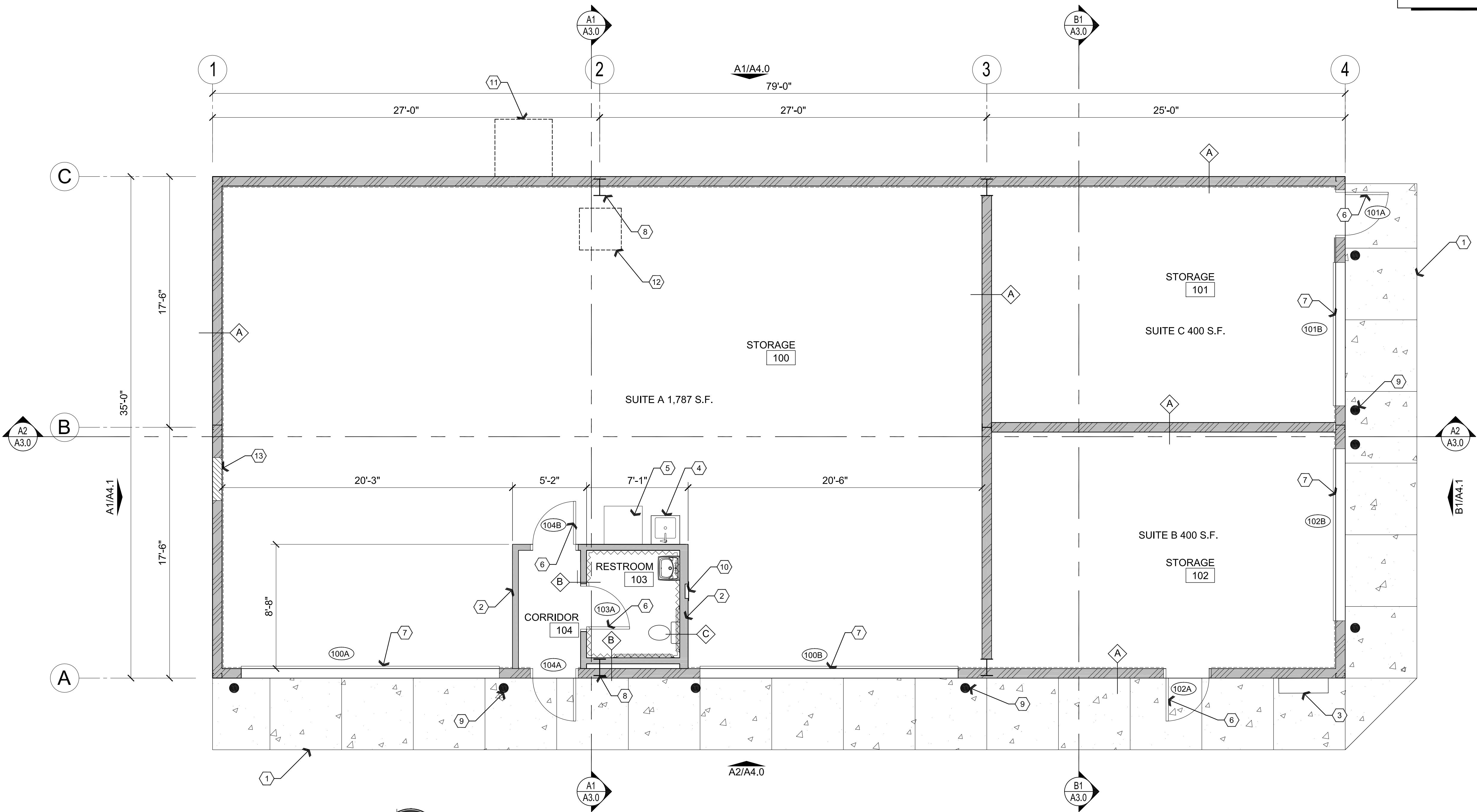
DRAWN BY  
 L.O.  
 CHECKED BY  
 W.A.K.  
 DATE  
 June 30th, 2023  
 JOB NO.  
 777  
 SHEET

**A2.0**

### Wall Types Legend

	<b>A</b> EXTERIOR / INTERIOR METAL BUILDING WALL: REFER TO METAL BUILDING MANUFACTURER'S SPECIFICATIONS. PROVIDE R-25 LINER SYSTEM AT EXTERIOR WALLS. PROVIDE INTERIOR LINER PANEL AS INDICATED ON METAL BUILDING PLANS AND BUILDING SECTIONS.
	<b>B</b> 4" WOOD STUD WALL: PROVIDE 2x4 WOOD STUDS @ 1'-4" O.C., 8'-0" TALL, WITH 5/8" GPDW EACH SIDE. PROVIDE R-11 BATT INSULATION.
	<b>C</b> 6" WOOD STUD WALL: PROVIDE 2x6 WOOD STUDS @ 1'-4" O.C., 8'-0" TALL, WITH 5/8" GPDW EACH SIDE. PROVIDE R-11 BATT INSULATION.
	<b>48" HIGH FRP</b>

- ### Descriptive Keynotes
1. PROVIDE CONCRETE SIDEWALK OVER COMPACTED A.B.C., REFER TO SITE PLAN AND CIVIL PLANS.
  2. PROVIDE INTERIOR WALL, REFER TO WALL TYPES LEGEND FOR TYPE OF CONSTRUCTION.
  3. PROVIDE ELECTRICAL SERVICE ENTRANCE SECTION, REFER TO ELECTRICAL PLANS.
  4. PROVIDE UTILITY SINK, REFER TO PLUMBING PLANS.
  5. STACKABLE WASHER/DRYER PROVIDED BY OWNER.
  6. PROVIDE DOOR, REFER TO DOOR SCHEDULE. (TYPICAL)
  7. PROVIDE ROLL-UP DOOR, REFER TO DOOR SCHEDULE. (TYPICAL)
  8. PROVIDE STEEL COLUMN, REFER TO METAL BUILDING PLANS. (TYPICAL)
  9. PROVIDE 6'-0" LONG 4" DIAMETER, CONCRETE FILLED, PROTECTIVE STEEL BOLLARDS, EMBEDDED 2'-0" BELOW GRADE INTO CONCRETE FOOTING, TYPICAL AT EACH OVERHEAD DOOR.
  10. PROVIDE ELECTRIC PANEL, REFER TO ELECTRICAL PLANS.
  11. PROVIDE SIDEWALL EVAPORATIVE COOLER, REFER TO MECHANICAL PLANS.
  12. PROVIDE PROPANE UNIT HEATER, REFER TO MECHANICAL PLANS.
  13. EVAPORATIVE COOLER LOUVERS.



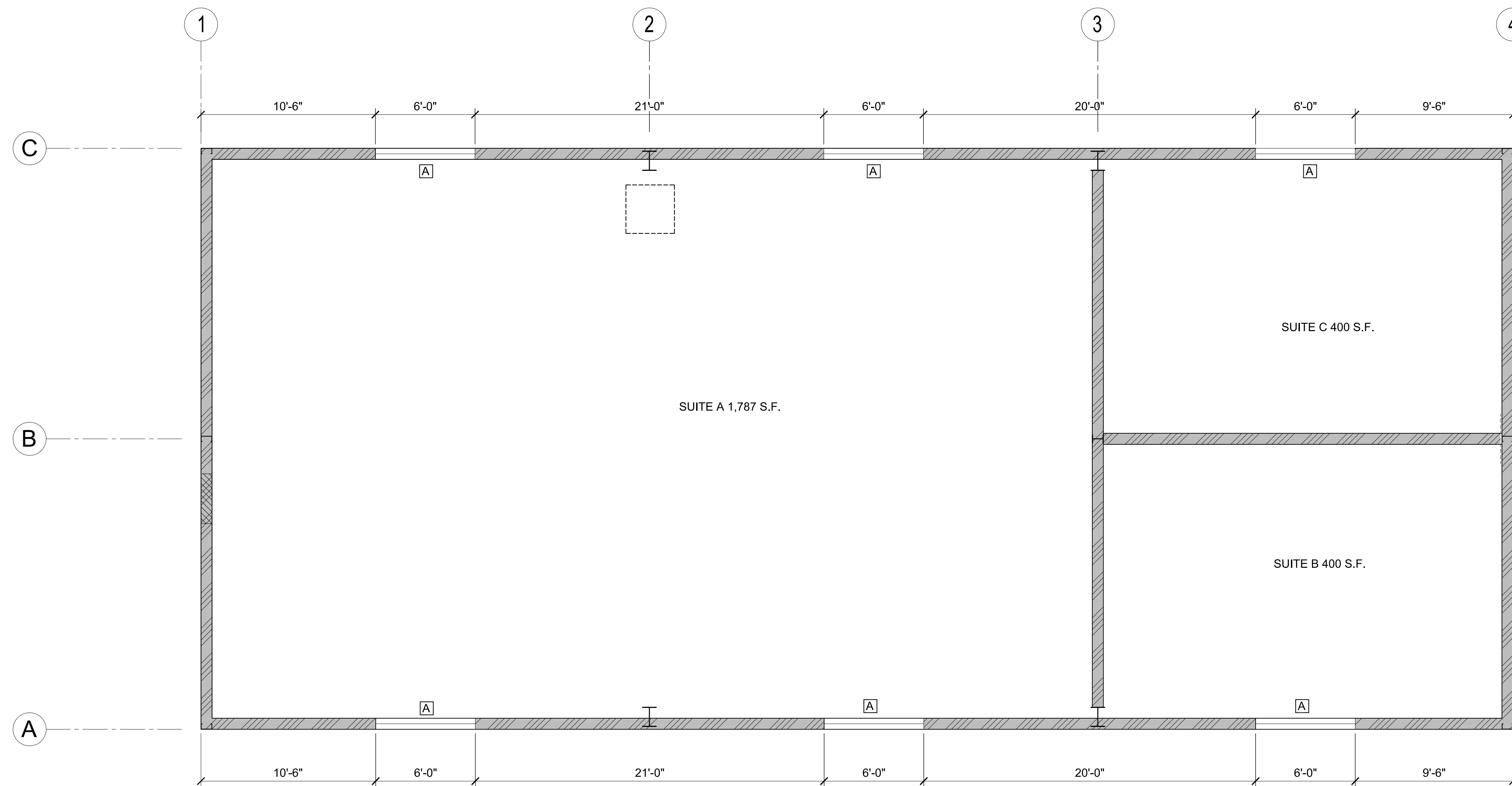
**A1 Reference / Dimension / Wall Types Floor Plan**

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



Jul 12, 2023 - 9:00am

Jul 10, 2023 - 12:29pm



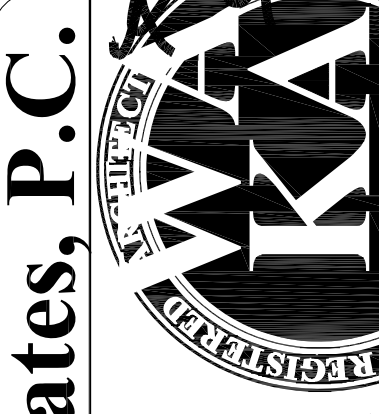
**High Window Plan**

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



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**DRAWING:** High Window Plan  
**PROJECT:** Commercial Building on Side Rd.  
 5416 Side Rd.  
 Prescott, AZ 86301  
**APN:** 105-01-038

DRAWN BY L.O.
CHECKED BY W.A.K.
DATE June 30th, 2023
JOB. NO. 777
SHEET

**A2.1**



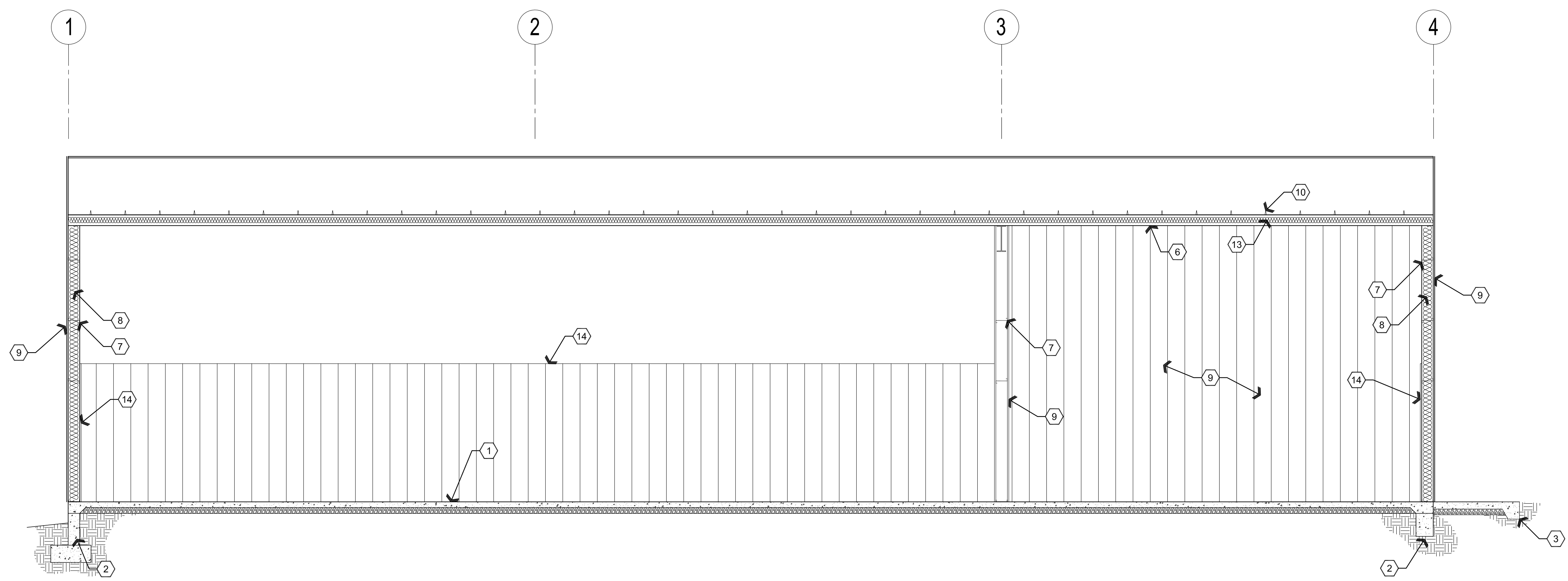
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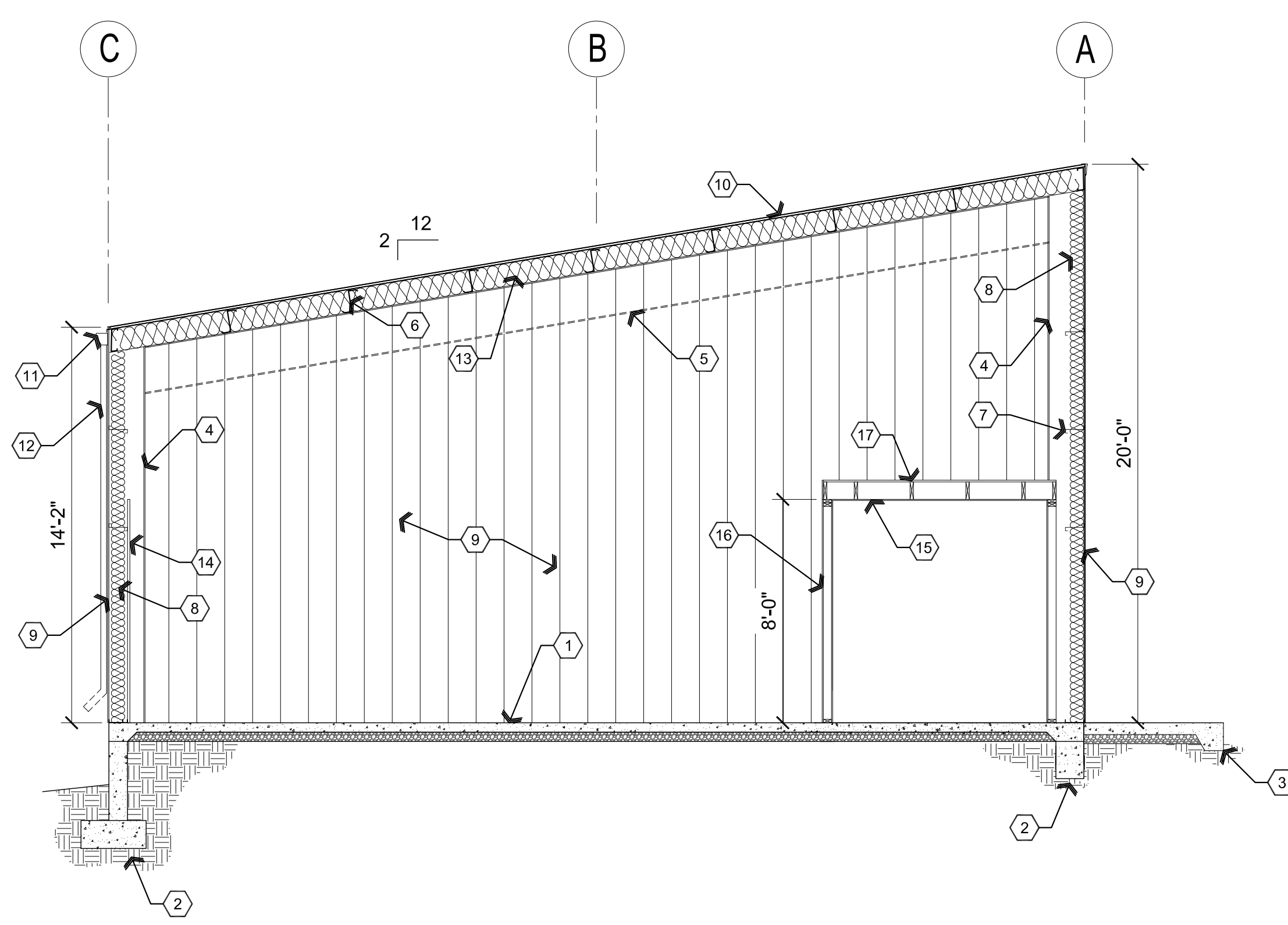
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 www.kenson-associates.com

- ### Descriptive Keynotes
1. PROVIDE CONCRETE SLAB OVER COMPACTED A.B.C., REFER TO STRUCTURAL FOUNDATION PLAN.
  2. PROVIDE CONCRETE FOOTING. REFER TO STRUCTURAL FOUNDATION PLAN.
  3. PROVIDE 8" TURNDOWN AT CONCRETE SIDEWALK.
  4. PROVIDE STEEL COLUMN, REFER TO METAL BUILDING PLANS.
  5. PROVIDE STEEL BEAM, REFER TO METAL BUILDING PLANS.
  6. PROVIDE ROOF PURLIN, TYPICAL, REFER TO METAL BUILDING PLANS
  7. PROVIDE STEEL GIRT, TYPICAL, REFER TO METAL BUILDING PLANS.
  8. PROVIDE R-25 LINER SYSTEM.
  9. PROVIDE METAL SIDING, REFER TO METAL BUILDING PLANS, REFER TO METAL BUILDING PLANS.
  10. PROVIDE R PANEL, SHEET METAL ROOF PANELS, REFER TO METAL BUILDING PLANS.
  11. PROVIDE SHEET METAL GUTTER, REFER TO METAL BUILDING PLANS.
  12. PROVIDE SHEET METAL DOWNSPOUT, REFER TO METAL BUILDING PLANS.
  13. PROVIDE R-30 LINER SYSTEM.
  14. PROVIDE SHEET METAL LINER PANEL, REFER TO METAL BUILDING PLANS.
  15. PROVIDE GPDW CEILING.
  16. PARTITION WALL, REFER TO REFERENCE FLOOR PLAN AND WALL TYPES PLAN.
  17. PROVIDE CEILING JOIST, REFER TO CEILING FRAMING PLAN.



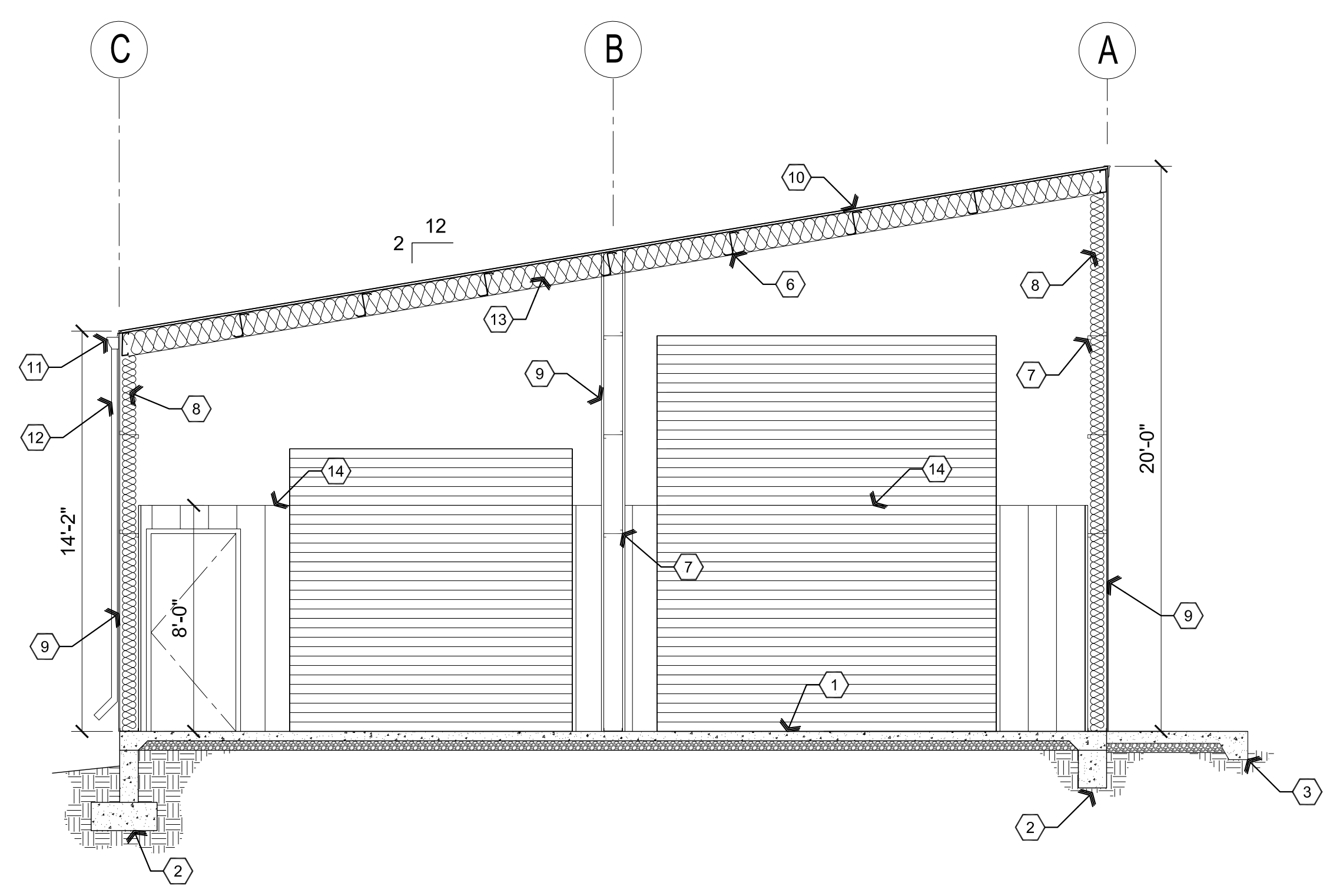
**A2 Building Section**

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



**A1 Building Section**

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



**B1 Building Section**

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

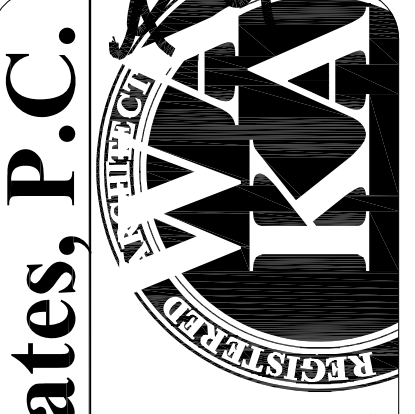
**DRAWING:** Proposed Exterior Elevations  
**PROJECT:** Commercial Building on Side Rd.  
 5416 Side Rd.  
 Prescott, AZ 86301  
**APN:** 105-01-038

**DRAWN BY:** L.O.  
**CHECKED BY:** W.A.K.  
**DATE:** June 30th, 2023  
**JOB NO.:** 777  
**SHEET:**

**A3.0**

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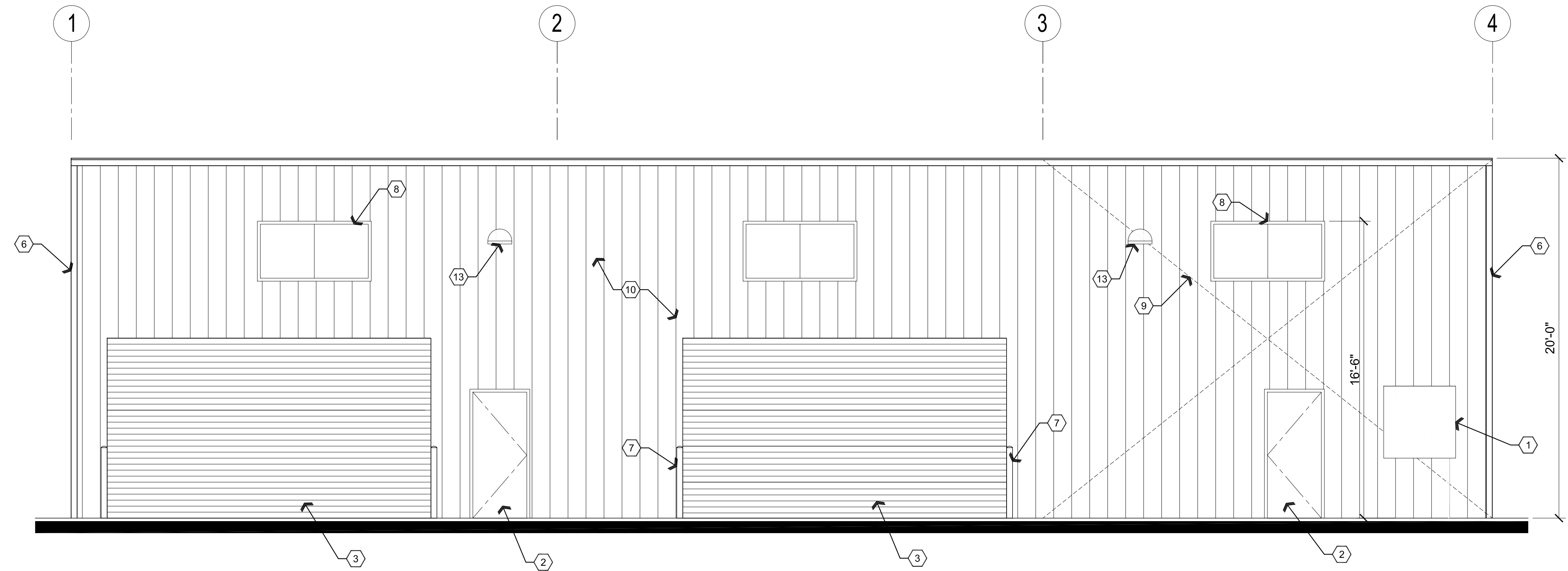
**DRAWING:** Exterior Elevations  
**PROJECT:** Commercial Building on Side Rd.  
 5416 Side Rd.  
 Prescott, AZ 86301  
**APN:** 105-01-038

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 L.O.  
 CHECKED BY  
 W.A.K.  
 DATE  
 June 30th, 2023  
 JOB NO.  
 777  
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**A4.0**

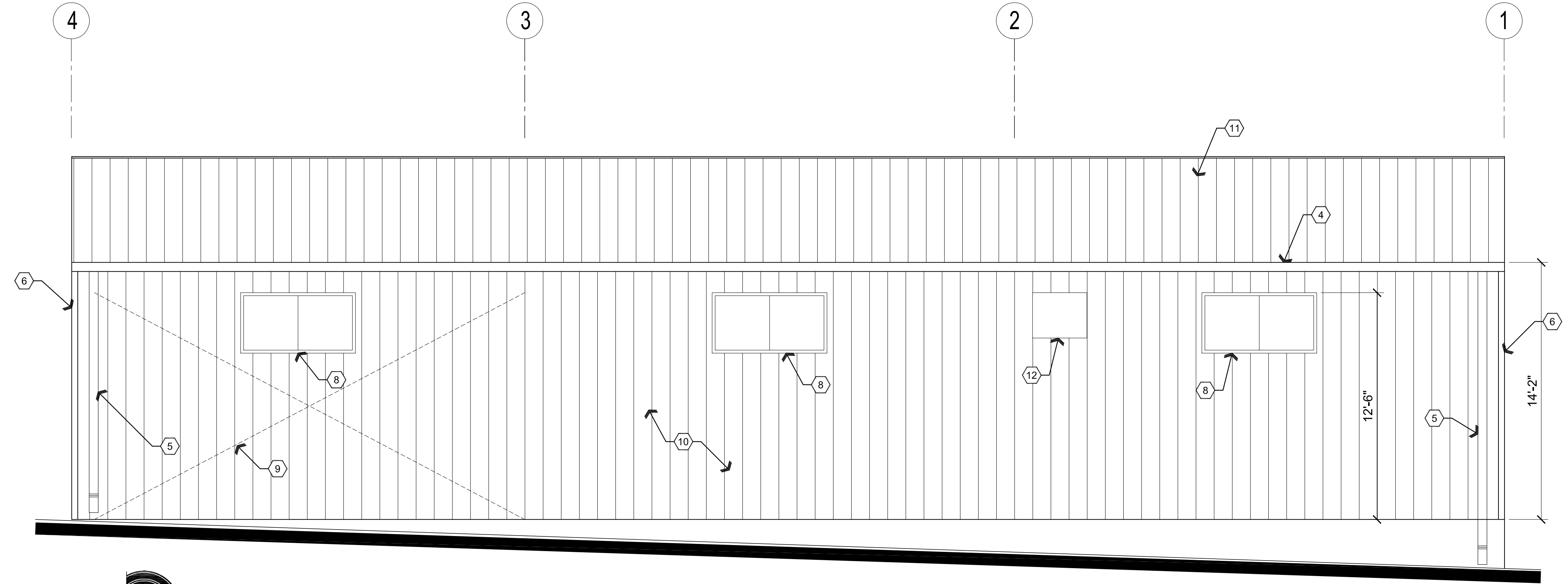
**Descriptive Keynotes**

1. PROVIDE ELECTRICAL SERVICE ENTRANCE SECTION, REFER TO ELECTRICAL PLANS.
2. HOLLOW METAL DOOR, REFER TO REFERENCE FLOOR PLAN AND DOOR SCHEDULE.
3. ROLL-UP DOOR, REFER TO REFERENCE FLOOR PLAN AND DOOR SCHEDULE.
4. PROVIDE SHEET METAL GUTTER, REFER TO METAL BUILDING PLANS.
5. PROVIDE SHEET METAL DOWNSPOUT, REFER TO METAL BUILDING PLANS.
6. PROVIDE SHEET METAL CORNER TRIM, REFER TO METAL BUILDING PLANS.
7. 4" STEEL CONCRETE FILLED BOLLARDS, 4'-0" ABOVE CONCRETE WITH 2'-0" EMBEDDED INTO CONCRETE FOOTING BELOW, TYPICAL.
8. EXTERIOR WINDOW, REFER TO HIGH WINDOW PLAN AND WINDOW TYPES.
9. LOCATION OF CROSS BRACING, REFER TO METAL BUILDING PLANS.
10. PROVIDE SHEET METAL SIDING PANELS, REFER TO METAL BUILDING PLANS.
11. PROVIDE SHEET METAL ROOF PANELS, REFER TO METAL BUILDING PLANS.
12. EVAPORATIVE COOLER, REFER TO MECHANICAL PLANS.
13. LIGHT FIXTURE, REFER TO ELECTRICAL PLANS.



**A2** South Elevation

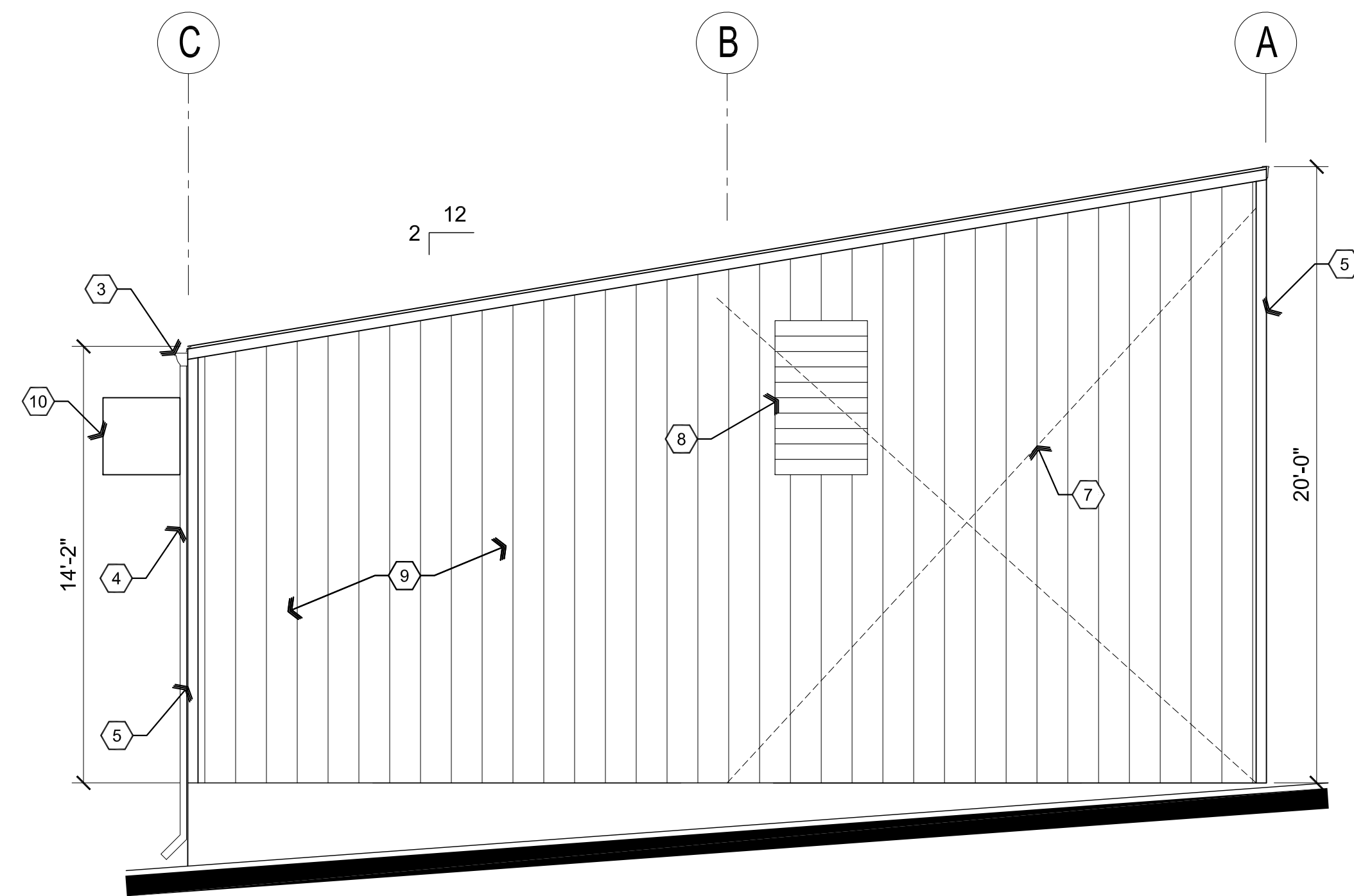
Scale: 1/4"=1'-0"



**A1** North Elevation

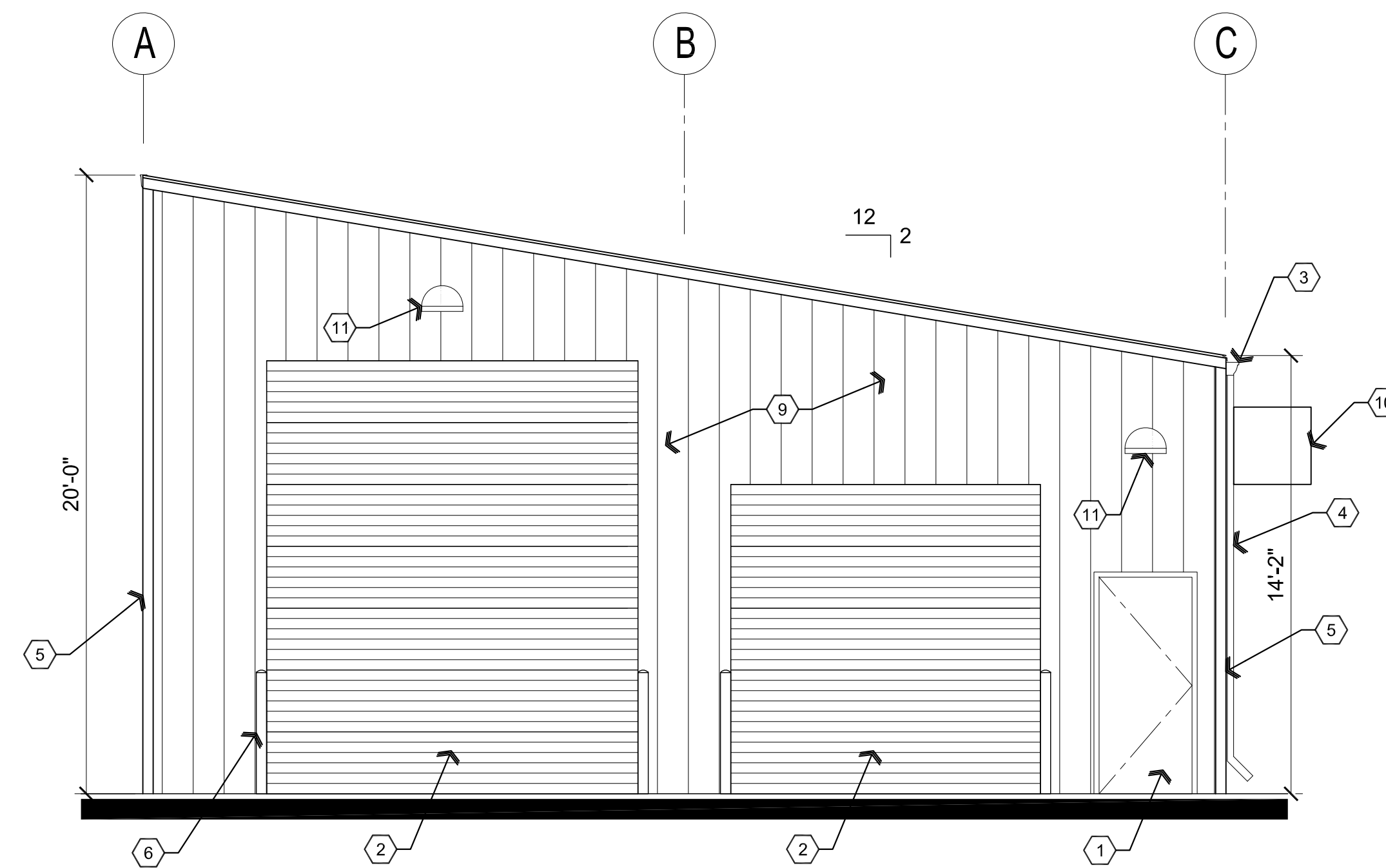
Scale: 1/4"=1'-0"

Jul 10, 2023 - 12:30pm



**A** West Elevation

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



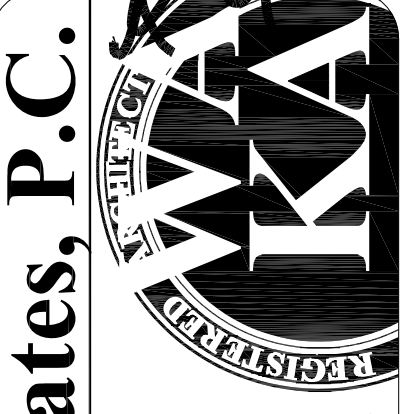
**B1** East Elevation

**Descriptive Keynotes**

1. HOLLOW METAL DOOR, REFER TO REFERENCE FLOOR PLAN AND DOOR SCHEDULE.
2. ROLL-UP DOOR, REFER TO REFERENCE FLOOR PLAN AND DOOR SCHEDULE.
3. PROVIDE SHEET METAL GUTTER, REFER TO METAL BUILDING PLANS.
4. PROVIDE SHEET METAL DOWNSPOUT, REFER TO METAL BUILDING PLANS.
5. PROVIDE SHEET METAL CORNER TRIM, REFER TO METAL BUILDING PLANS.
6. 4" STEEL CONCRETE FILLED BOLLARDS, 4'-0" ABOVE CONCRETE WITH 2'-0" EMBEDDED INTO CONCRETE FOOTING BELOW, TYPICAL.
7. LOCATION OF CROSS BRACING, REFER TO METAL BUILDING PLANS.
8. RELIEF AIR LOUVERS, REFER TO MECHANICAL PLANS.
9. PROVIDE SHEET METAL SIDING PANELS, REFER TO METAL BUILDING PLANS.
10. EVAPORATIVE COOLER, REFER TO MECHANICAL PLANS.
11. LIGHT FIXTURE, REFER TO ELECTRICAL PLANS.

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**ARCHITECTURE & PLANNING**

**DRAWING:** Exterior Elevations  
**PROJECT:** Commercial Building on Side Rd.  
 5416 Side Rd.  
 Prescott, AZ 86301  
**APN:** 105-01-038

DRAWN BY  
 L.O.  
 CHECKED BY  
 W.A.K.  
 DATE  
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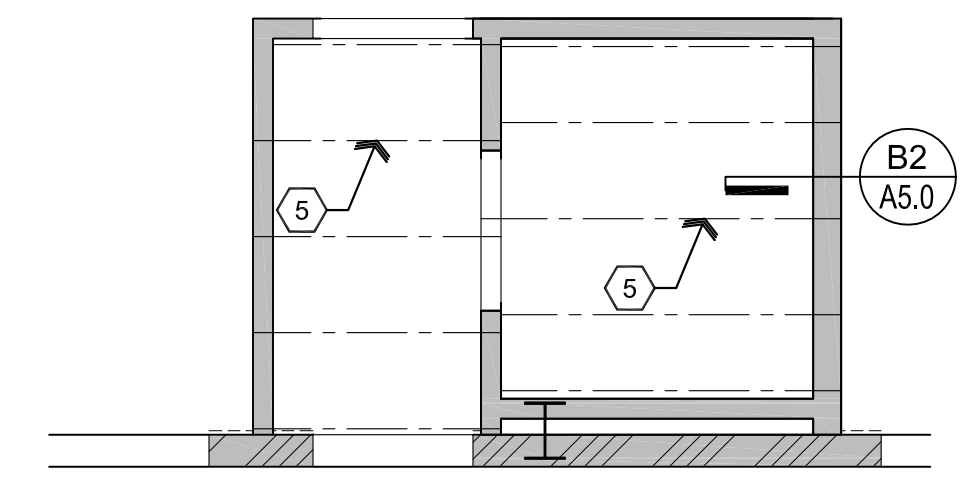
**A4.1**

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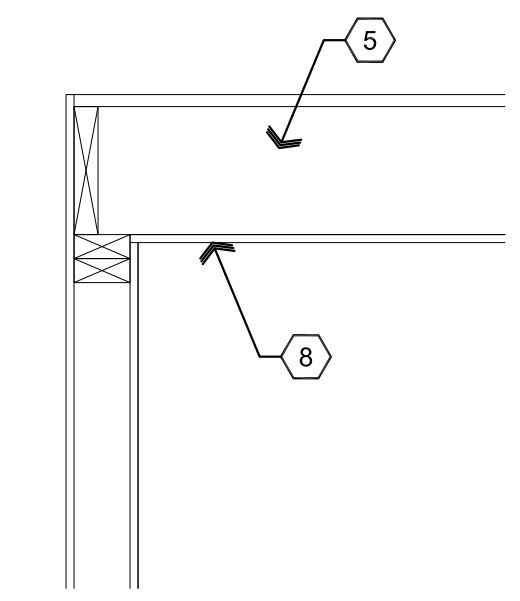
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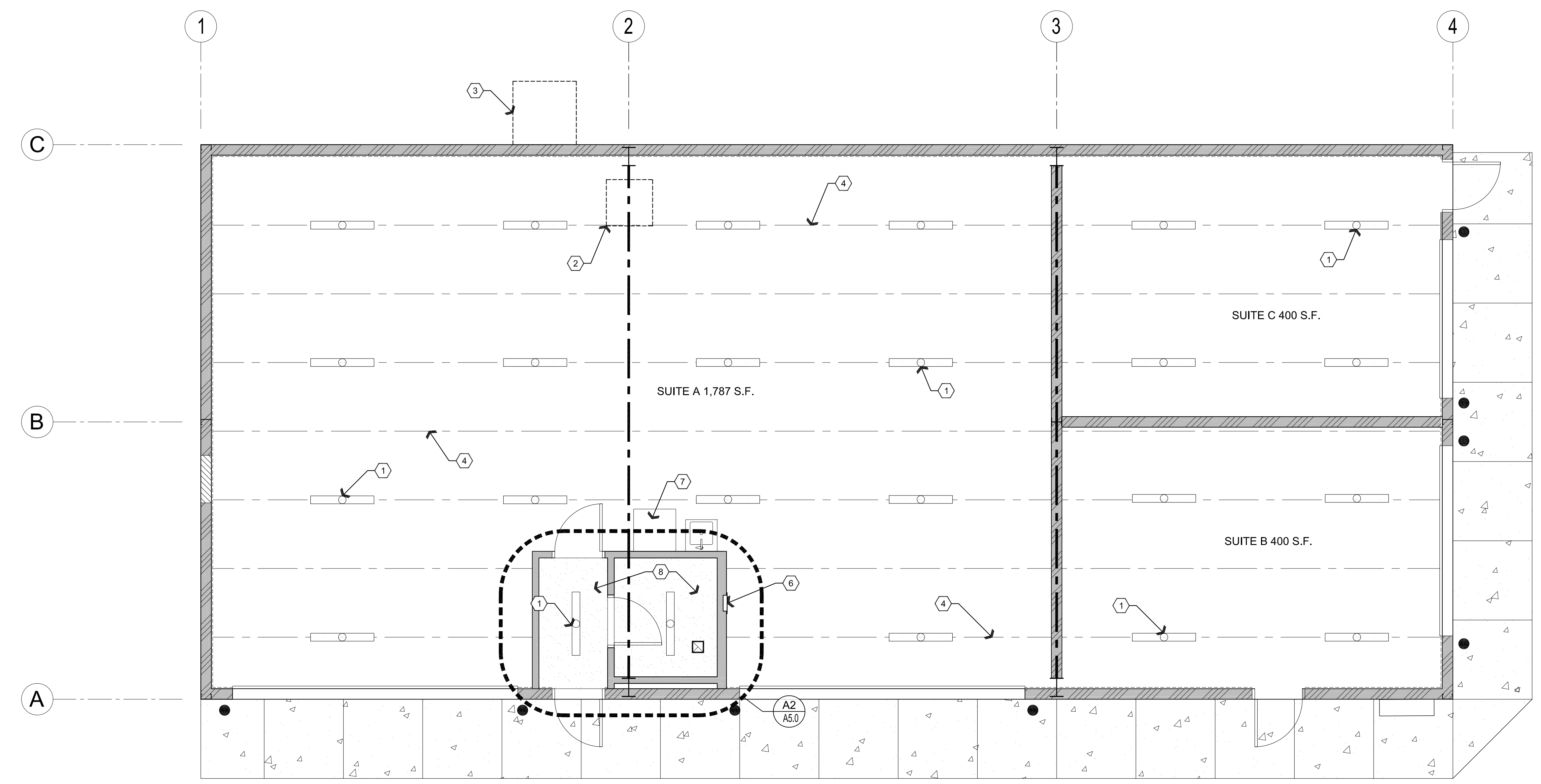
- ### Descriptive Keynotes
1. LIGHT FIXTURE(S) SHOWN FOR QUANTITY AND LOCATION ONLY. REFER TO ELECTRICAL PLANS.
  2. PROVIDE PROPANE UNIT HEATER, REFER TO MECHANICAL PLANS.
  3. PROVIDE EVAPORATIVE COOLER, REFER TO MECHANICAL PLANS.
  4. ROOF PURLIN, REFER TO METAL BUILDING PLANS.
  5. PROVIDE 2x8 CEILING JOIST @ 2'-0" O.C.
  6. ELECTRICAL PANEL.
  7. STACKABLE WASHER/DRYER, BY OWNER.
  8. PROVIDE 5/8" GPDW CEILING.



**A2** Ceiling Framing Plan  
Scale: 1/4"=1'-0"



**B2** Ceiling Framing Detail  
Scale: 1"=1'-0"



**A1** Reflected Ceiling Plan  
Scale: 1/4"=1'-0"

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



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**ARCHITECTURE & PLANNING**

**DRAWING:** Reflected Ceiling Plan, Ceiling Framing Plan and Detail  
**PROJECT:** Commercial Building on Side Rd.  
 5416 Side Rd.  
 Prescott, AZ 86301  
**APN:** 105-01-038

DRAWN BY  
L.O.  
 CHECKED BY  
W.A.K.  
 DATE  
June 30th, 2023  
 JOB NO.  
777  
 SHEET

**A5.0**

### Hardware Schedule

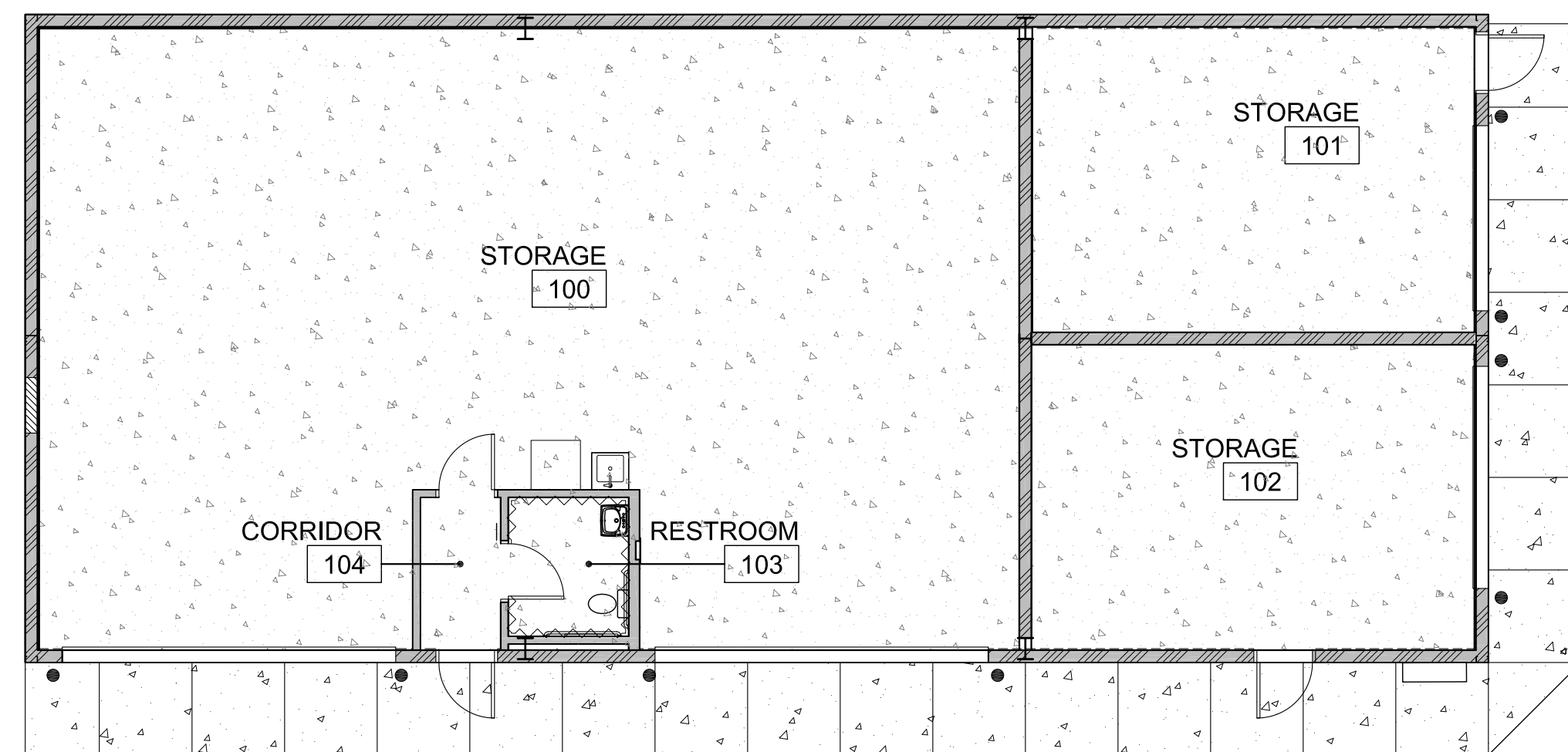
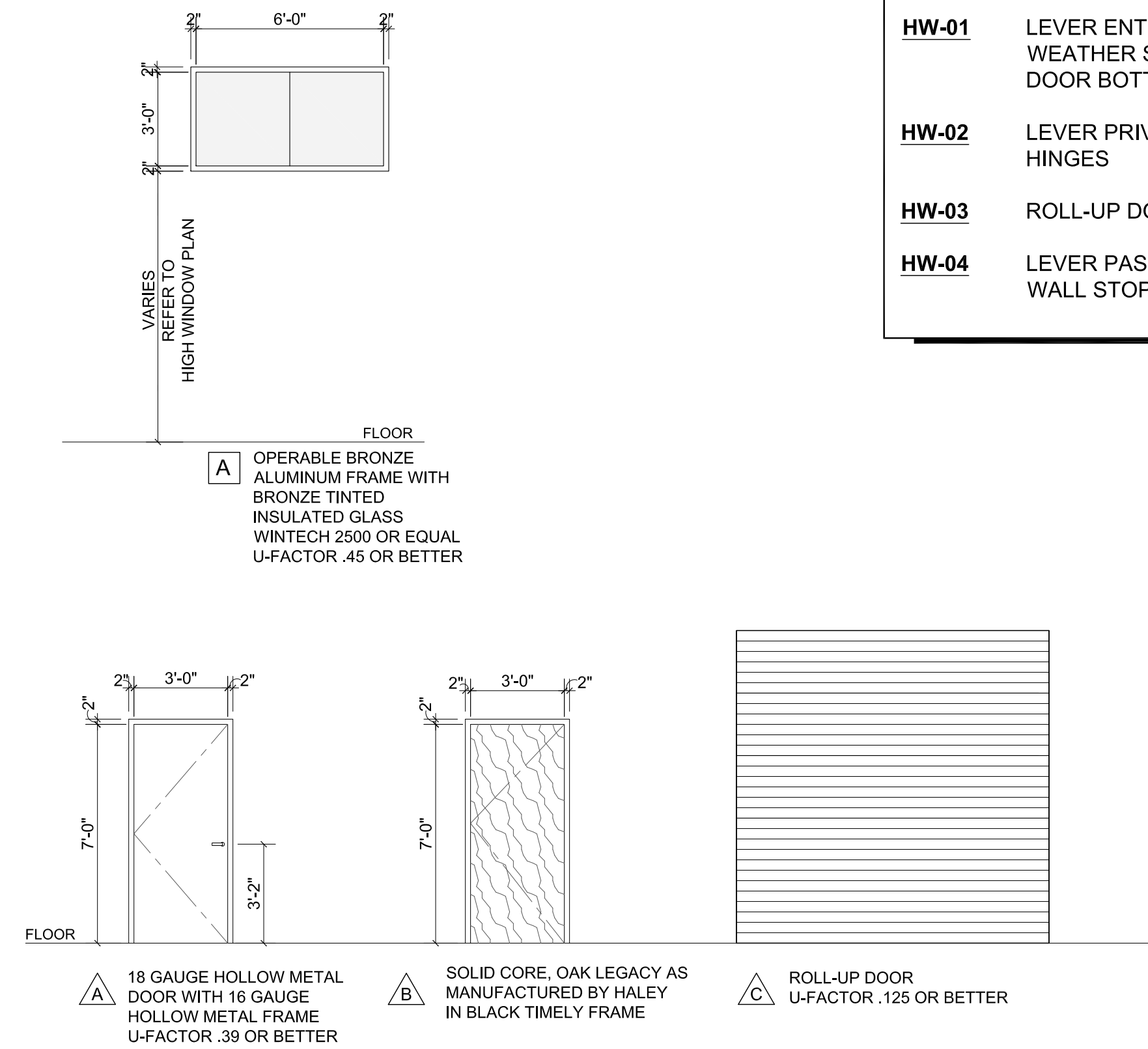
- HW-01** LEVER ENTRY LOCK, CHAIN STOP, WEATHER STRIP, THRESHOLD, DOOR BOTTOM, HINGES
- HW-02** LEVER PRIVACY LOCK, WALL STOP, HINGES
- HW-03** ROLL-UP DOOR
- HW-04** LEVER PASSAGE LOCK WALL STOP, HINGES

### Door Schedule

NO.	ROOM NAME	SIZE	TYPE	DOOR MATERIAL	DOOR FINISH	FRAME MATERIAL	FRAME FINISH	HARDWARE TYPE
100A	STORAGE	18'-0"x10'-0"	C	STEEL	PAINT	STEEL	PAINT	03
100B	STORAGE	18'-0"x10'-0"	C	STEEL	PAINT	STEEL	PAINT	03
101A	STORAGE	3'-0"x7'-0"	A	STEEL	PAINT	STEEL	PAINT	01
101B	STORAGE	10'-0"x10'-0"	C	STEEL	PAINT	STEEL	PAINT	03
102A	STORAGE	3'-0"x7'-0"	A	HM	PAINT	HM	PAINT	01
102B	STORAGE	12'-0"x14'-0"	C	STEEL	PAINT	STEEL	PAINT	03
103A	RESTROOM	3'-0"x7'-0"	B	SCWD	STAIN	STEEL	PAINT	02
104A	CORRIDOR	3'-0"x7'-0"	A	HM	PAINT	HM	PAINT	01
104B	CORRIDOR	3'-0"x7'-0"	B	SCWD	STAIN	STEEL	PAINT	04

#### NOTES:

- ALL EXIT DOORS & HARDWARE SHALL COMPLY WITH THE 2018 I.B.C.
- DOOR THRESHOLDS SHALL HAVE A MAX HEIGHT OF 1/2" FOR H.C. ACCESSIBILITY. THRESHOLD SHALL HAVE A MAXIMUM RISE OF 1/4" AND 1/2" RISE WHEN BEVELED WITH MAXIMUM 1:2 SLOPE.
- ALL GLAZING IN DOORS SHALL BE SAFETY GLAZING.
- ALL INTERIOR DOORS SHALL BE OPERABLE FOR EMERGENCY EXITING PURPOSES WITHOUT THE USE OF A KEY, SPECIAL KNOWLEDGE NOR EFFORT.
- ALL GLAZING WITHIN 24" OF OPENINGS SHALL BE SAFETY GLASS.
- IF A DOOR HAS A CLOSER, THEN THE SWEEP PERIOD OF THE CLOSER SHALL BE ADJUSTED SO THAT FROM AN OPEN POSITION OF 70 DEGREES, THE DOOR WILL TAKE AT LEAST 3 SECONDS TO MOVE TO A POINT 3" FROM THE LATCH, MEASURED TO THE LEADING EDGE OF THE DOOR.
- DOOR HANDLES, PULLS, LATCHES, LOCKS, AND OTHER OPERATING DEVICES ON ACCESSIBLE DOORS SHALL HAVE A SHAPE THAT IS EASY TO GRASP WITH ONE HAND AND DOES NOT REQUIRE TIGHT GRASPING, TIGHT PINCHING, OR TWISTING OF THE WRIST TO OPERATE. HARDWARE REQUIRED FOR DOOR PASSAGE SHALL BE MOUNTED NO HIGHER THAN 48" ABOVE FINISH FLOOR.
- DOOR OPENING FORCE SHALL BE: 5lbf MAX INTERIOR HINGED, SLIDING OR FOLDING DOORS; FIRE DOORS SHALL HAVE THE MINIMUM OPENING FORCE ALLOWABLE BY THE APPROPRIATE ADMINISTRATIVE AUTHORITY.



### Room Finish Schedule

NO.	ROOM NAME	FLOOR	BASE	WALLS	CEILING	HEIGHT
100	STORAGE	F1	B1/B2	W1/W2	C1	VARIES
101	STORAGE	F1	B1	W1	C1	VARIES
102	STORAGE	F1	B1	W1	C1	VARIES
103	RESTROOM	F1	B1/B2	W2/W3	C2	8'-0"
104	CORRIDOR	F1	B1/B2	W2	C2	8'-0"

- FLOOR:**  
F1 CONCRETE
- BASE:**  
B1 NONE  
B2 RUBBER BASE
- WALLS:**  
W1 OPEN TO STRUCTURE / METAL LINER PANELS  
W2 PAINTED GPDW  
W3 FRP WAINSCOT
- CEILING:**  
C1 OPEN TO STRUCTURE  
C2 PAINTED GPDW

### Legend



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EXPIRES: 6/30/24

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**DRAWING:** Door & Window Schedule  
Room Finish Plan & Schedule

**PROJECT:** Commercial Building on Side Rd.  
5416 Side Rd.  
Prescott, AZ 86301

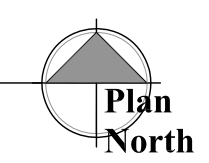
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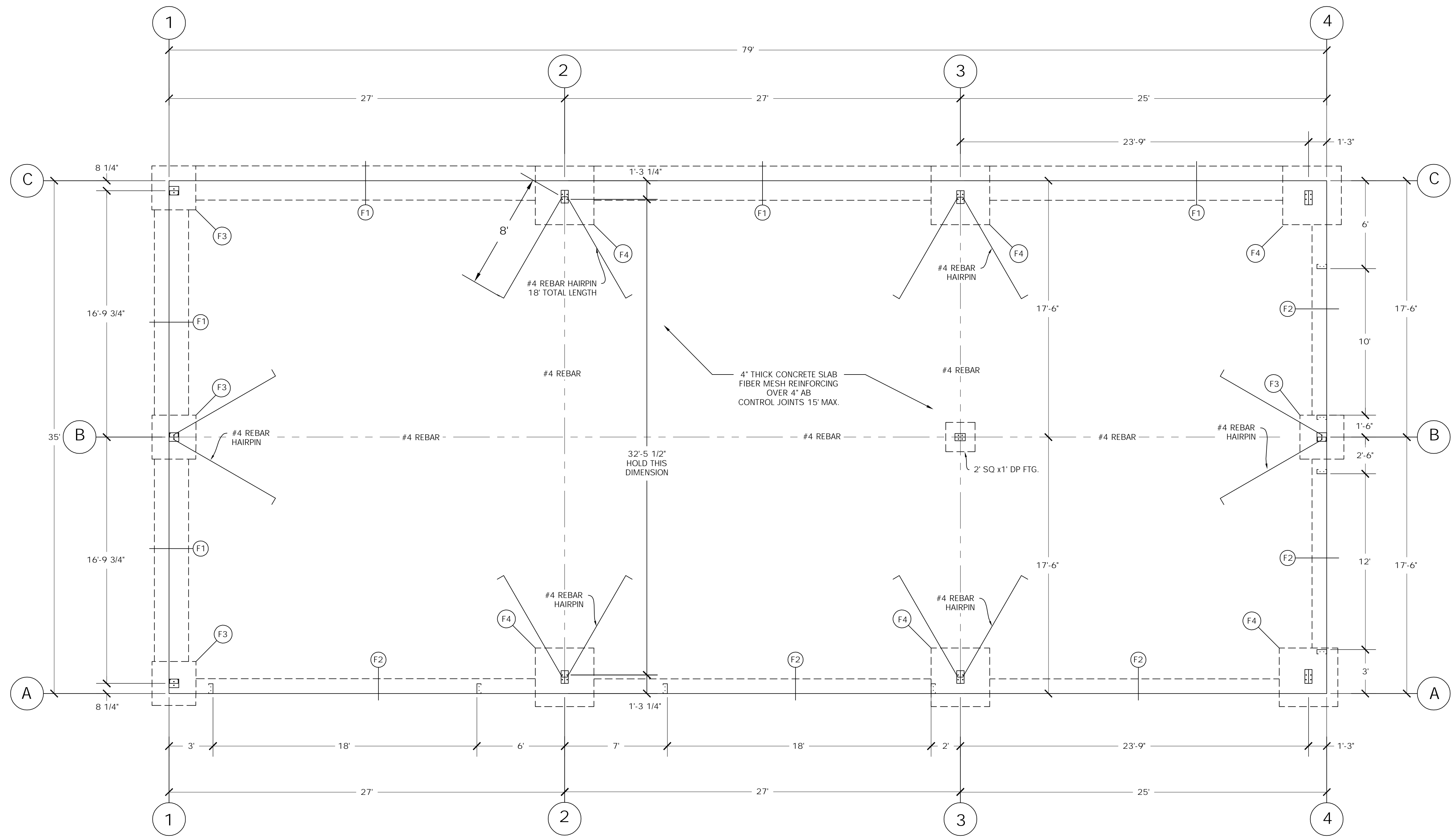
DRAWN BY: L.O.  
CHECKED BY: W.A.K.  
DATE: June 30th, 2023  
JOB NO.: 777  
SHEET

# A6.0

## Room Finish Plan

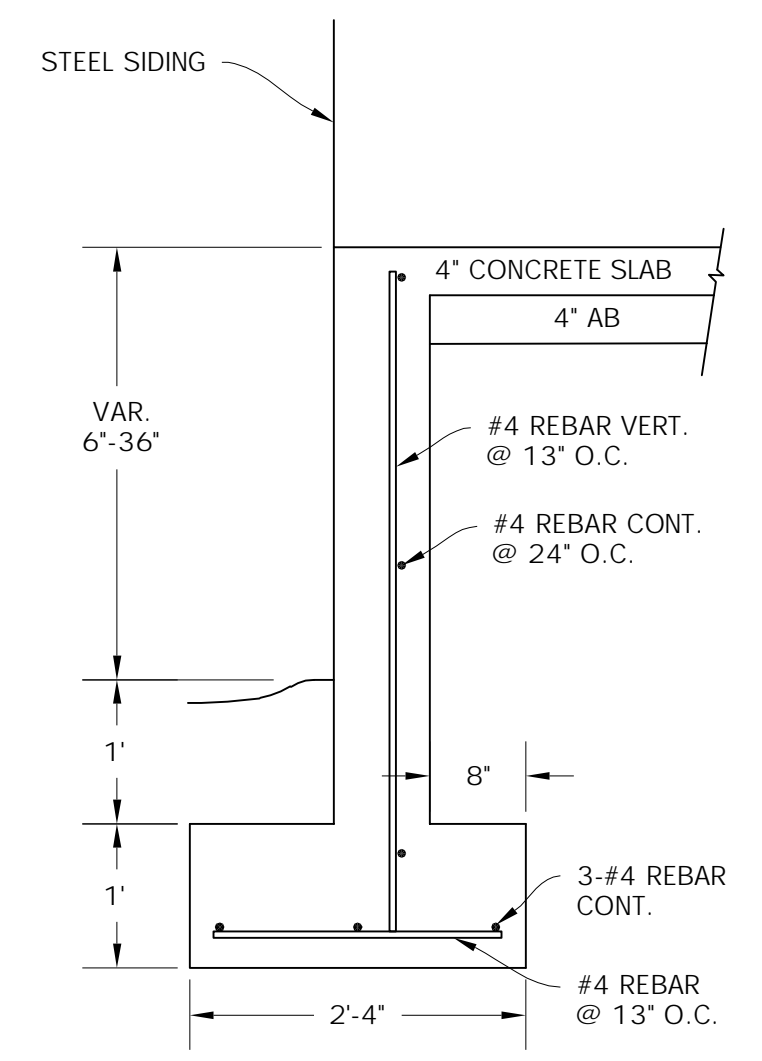
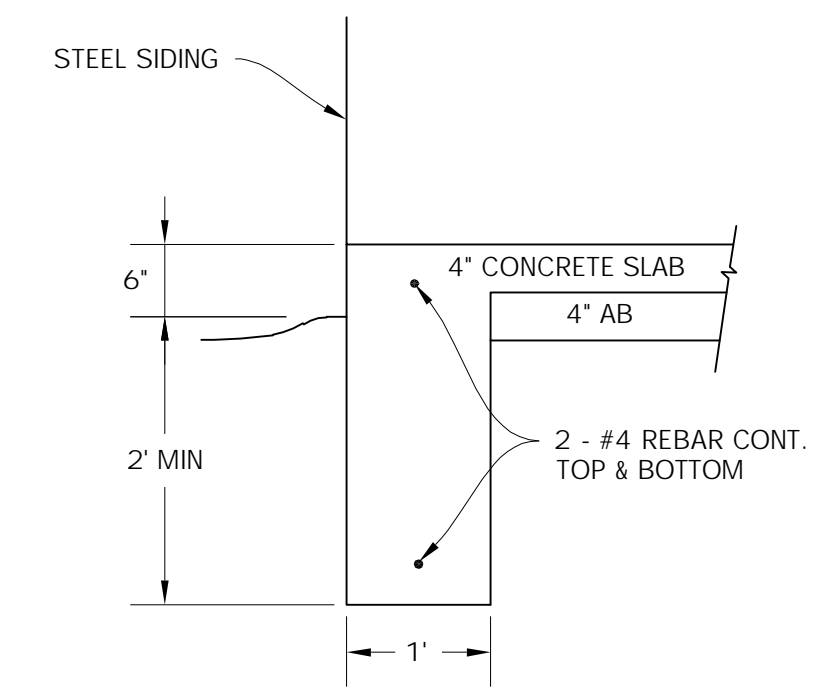
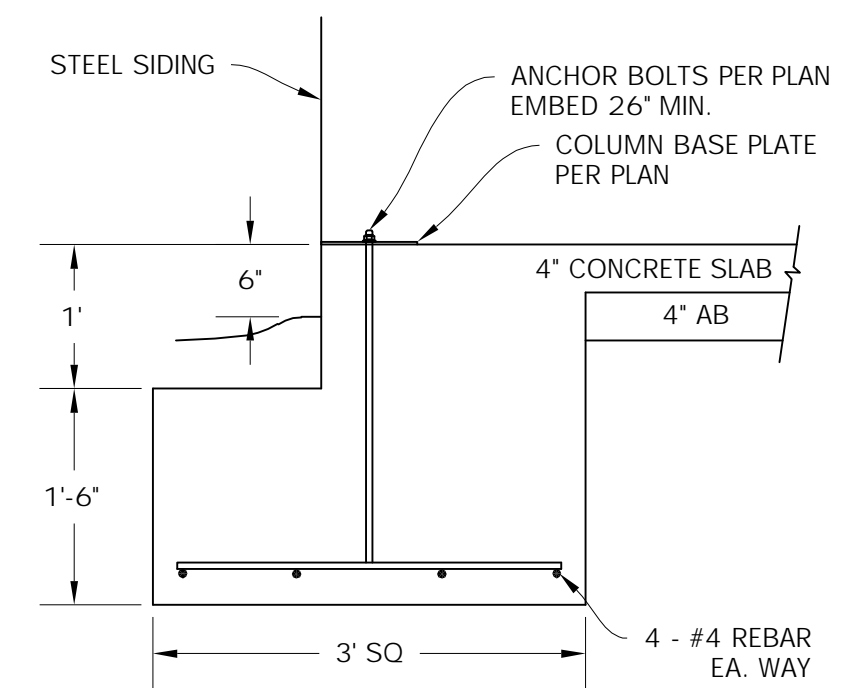
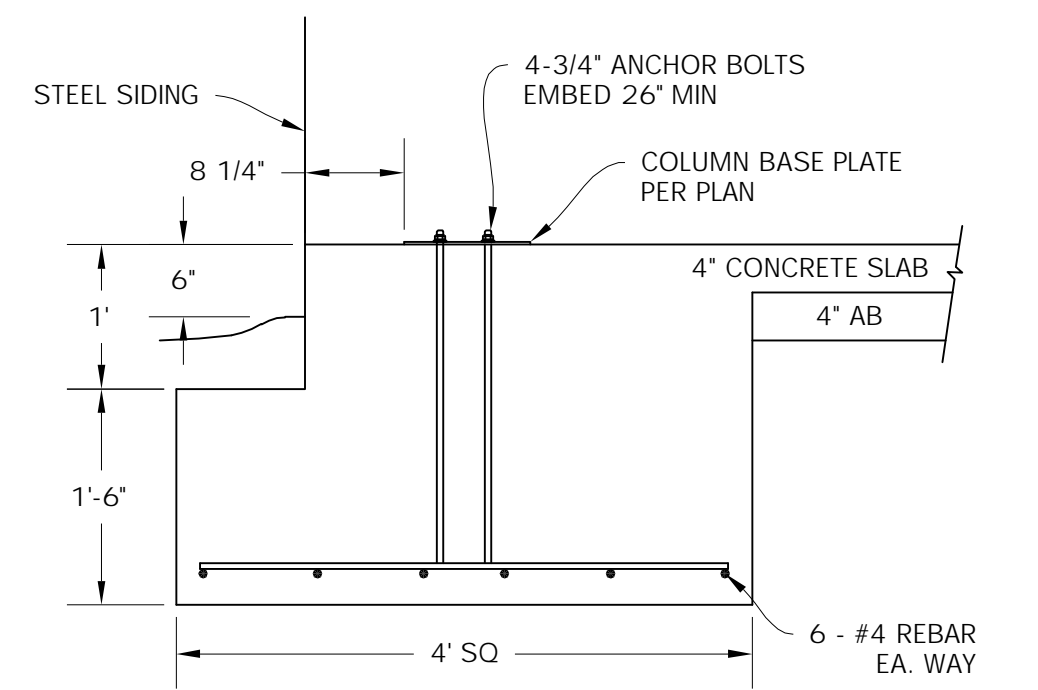
Scale: 1/8"=1'-0"





NOTE: REFERENCE METALLIC BUILDING SYSTEMS JOB # 19-B-34172

**FOUNDATION PLAN**  
SCALE: 1/4" = 1'-0"



**FOUNDATION NOTES**

VERIFY SOIL TEST REQUIREMENTS WITH LOCAL BUILDING OFFICIALS PRIOR TO LOT EXCAVATION PER IBC UNLESS DETERMINED OTHERWISE BY A GEOTECHNICAL EVALUATION. FOUNDATION AND STRUCTURAL DESIGN TO ASSUME STANDARD AREA SOIL CHARACTERISTICS AND SOIL BEARING CAPACITY VALUES AS SET IN TABLE R401.4.1.

MINIMUM SOIL BEARING PRESSURE IS 1500 PSF.

LOT SHALL BE GRADED TO DRAIN SURFACE WATER AWAY FROM FOUNDATION WALLS A MINIMUM OF 6" IN FIRST 10' PER IBC.

SLABS SHALL BE 4" CONCRETE OVER 4" AGGREGATE BASE (AB) OVER 12" COMPACTED NATIVE MATERIAL (90% COMPACTION).

ALL FOOTINGS TO EXTEND A MINIMUM OF 12" INTO NATURAL UNDISTURBED SOIL. VERIFY DEPTH OF EXCAVATION WITH LOCAL BUILDING OFFICIAL. EXCAVATE BELOW FOOTING 12" AND RE-COMPACT TO 95%.

EXPANSION JOINTS TO OCCUR BETWEEN BUILDING SLAB AND ALL OTHER POURS OR EXISTING SLABS.

INTERIOR CONCRETE SLABS TO RECEIVE A HARD STEEL TROWEL FINISH. EXTERIOR CONCRETE SLABS TO RECEIVE A ROCK SALT FINISH OR LIGHT BROOM FINISH. SLOPE EXTERIOR SLABS AT A MINIMUM 1/4" PER FOOT AWAY FROM BUILDING.

CONCRETE IS DESIGNED FOR 2500 PSI. CONCRETE SHALL BE READY MIXED CONFORMING TO ASTM-C-94 AND SHALL ATTAIN A MINIMUM 28 DAY COMPRESSIVE STRENGTH OF 3000 PSI. NO SPECIAL INSPECTION REQUIRED.

ALL FOUNDATION BOLTS FOR STEEL BUILDING SHALL BE A307.

**CODES SUMMARY:**  
 2018 INTERNATIONAL BUILDING CODE  
 2018 INTERNATIONAL RESIDENTIAL CODE  
 2018 INTERNATIONAL MECHANICAL CODE  
 2018 INTERNATIONAL PLUMBING CODE  
 2018 INTERNATIONAL FUEL GAS CODE  
 2018 INTERNATIONAL FIRE CODE  
 2018 INTERNATIONAL EXISTING BUILDING CODE  
 2017 NATIONAL ELECTRIC CODE  
 2018 INTERNATIONAL PROPERTY MAINTENANCE COD

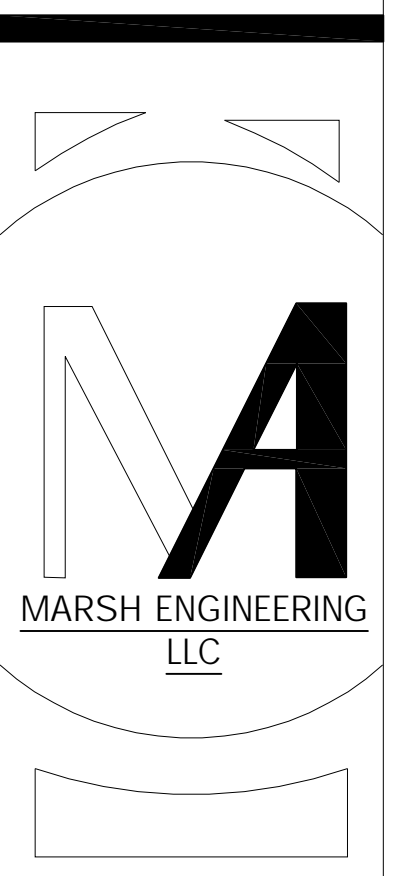
**DESIGN CRITERIA**

1. DEAD LOADS:  
 METAL ROOF ..... 2.36 PSF  
 COLLATERAL ..... 5.00 PSF

2. LIVE LOADS:  
 ROOF ..... 20 PSF  
 ROOF (SNOW) ..... 30 PSF

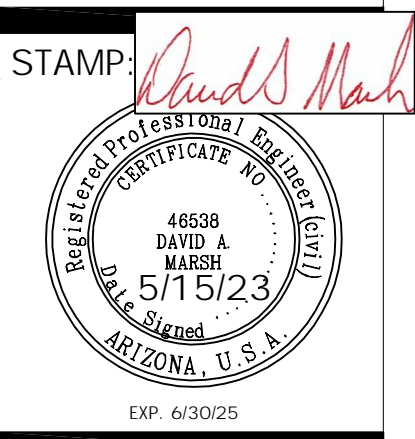
3. LATERAL LOADS:  
 SEISMIC PER IBC 1613  
 CATEGORY 'C' SITE CLASS 'D' RISK CAT. 'II'  
 Sds = 0.345 g  
 Sd1 = 0.162 g

WIND PER IBC 1609 Exposure 'C'  
 Basic Wind Speed = 101 MPH



8642 N ARCHER AVE  
TUCSON, AZ, 85742  
PH. 520-401-8020

DESIGNER/  
ENGINEER:  
DAVID A. MARSH



**REVISIONS**

Date	Des.	No.

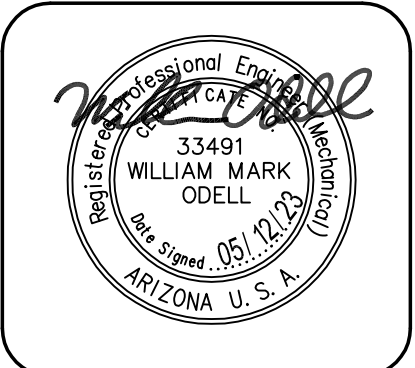
**FOUNDATION PLAN**  
SCOTT HICKS  
5416 SIDE RD  
PRESCOTT, AZ 86301

DATE: 05/15/2023  
SCALE: AS NOTED  
DRAWN BY: BRITTANY BARNEY  
JOB NUMBER: 23-1742

SHEET:  
**S1**

REVISIONS	BY

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**DRAWING:** Mechanical Floor Plan  
**PROJECT:** Commercial Building on Side Rd.  
 5416 Side Rd.  
 Prescott, AZ 86301  
**APN:** 103-01-038

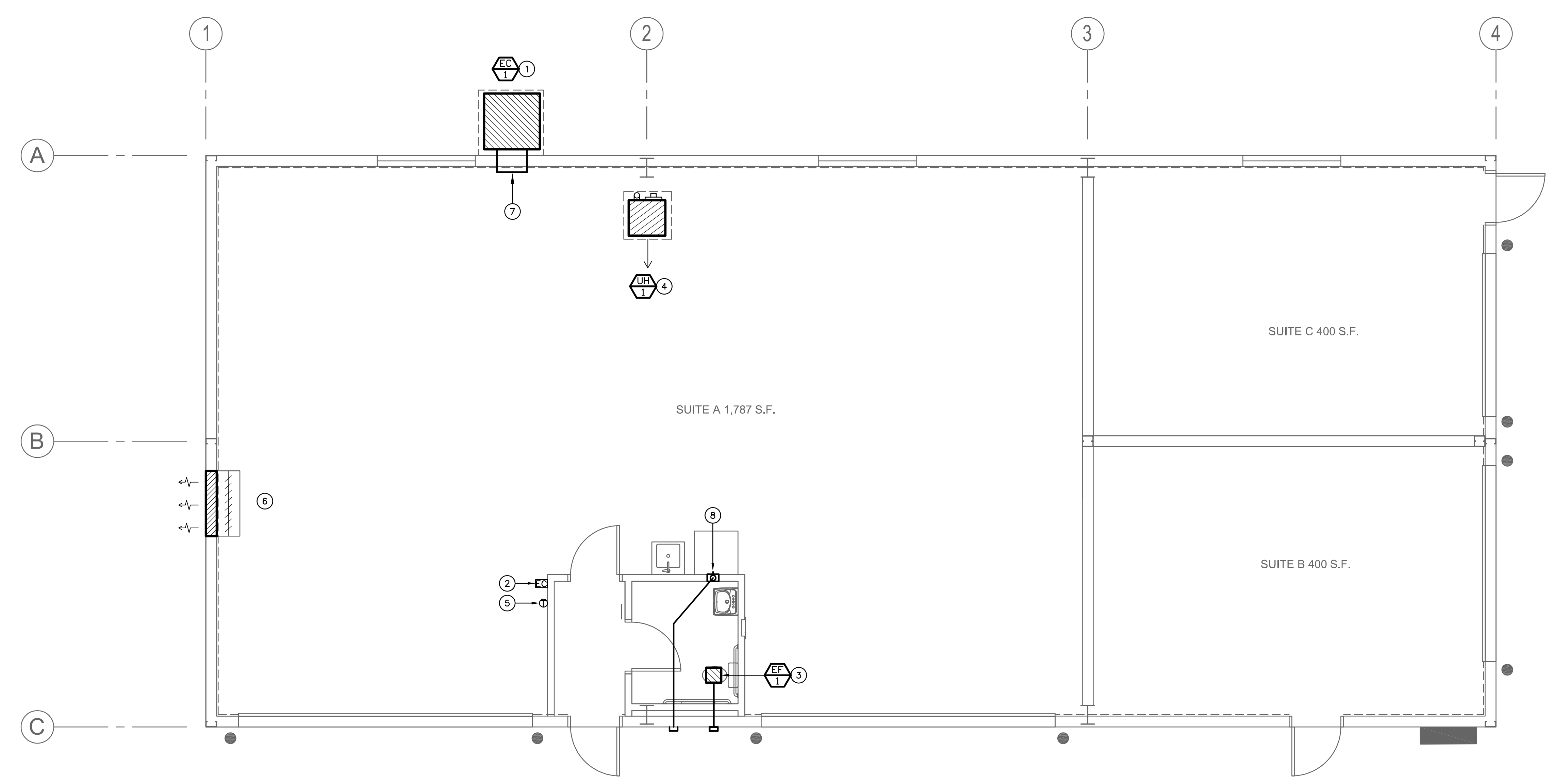
<b>DRAWN BY</b>
<b>CHECKED BY</b>
<b>DATE</b> March 24th, 2023
<b>JOB NO.</b> 777
<b>SHEET</b>

**M1.0**

WAREHOUSE COMBUSTION AIR CALC	
WAREHOUSE VOLUME	
1795 FT. SQ. X 16 FT. = 28,720 CU. FT.	
TOTAL GAS MBH	
UH-1 60 MBH (60,000 BTU/H)	
VOLUME PER MBH	
28,720 CU. FT. / 60 MBH = 478 FT. CU./MBH	
VOLUME PER MBH IS MORE THAN 50 FT. CU./MBH	
COMBUSTION AIR DELIVERED VIA INFILTRATION	

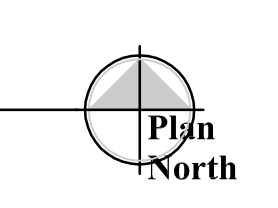
**KEYNOTES**

- SIDE DRAFT EVAPORATIVE COOLER MOUNTED ON FIELD FABRICATED WALL BRACKET. UNIT SHALL BE COMPLETE WITH CIRCULATING PUMP AND PUMP/FAN CONTROLS. PROVIDE 3/4" DRAIN AND 1/2" WATER TO EVAP COOLER, SEE PLUMBING PLANS.
- PUMP/FAN EVAPORATIVE COOLER CONTROL(S).
- CEILING MOUNTED EXHAUST FAN WITH BACKDRAFT DAMPER. TRANSITION EXHAUST DUCT FROM UNIT DISCHARGE AND ROUTE TO MANUFACTURER'S WALL DISCHARGE. MAINTAIN A MINIMUM 10' CLEARANCE FROM ALL OUTSIDE AIR INTAKES.
- GAS-FIRED UNIT HEATER SUPPORTED FROM STRUCTURE, WITH TYPE "B" FLUE UP THROUGH ROOF. COORDINATE UNIT HEATER MOUNTING HEIGHT.
- PROVIDE UNIT HEATER WITH LOW VOLTAGE THERMOSTAT WITH INSULATED SUB-BASE.
- 48x60 RELIEF LOUVER WITH BAROMETRIC BACKDRAFT DAMPER BALANCED TO OPEN WITH EVAPORATIVE COOLER OPERATION.
- EVAP DUCT OPEN DISCHARGE.
- 4" RIGID DRYER DUCT WITH RECESSED DRYER BOX RECEPTACLE. INSTALL PER CODE TO WALL DISCHARGE. MAXIMUM LENGTH SHALL NOT EXCEED 35 FEET (EXCEPT AS ALLOWED BY DRYER MANUFACTURER'S INSTALLATION INSTRUCTIONS). EXHAUST DUCT SHALL BE SECURED TO FRAMING MEMBERS WITH STRAPS AND NOT CONNECTED OR SECURED USING SCREWS OR OTHER FASTENING MEANS WHICH EXTEND INTO DUCT. PROVIDE DRYER DISCHARGE CAP, WITH BACKDRAFT DAMPER. DRYER BOX INSTALLATION SHALL MAINTAIN WALL FIRE RATING.



**1 Mechanical Floor Plan**

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



611 West Delano Ave  
 Prescott, AZ 86301  
 (928) 443-7353  
 Project #23030  
 11759 N. 143rd Ave.  
 Surprise, AZ 85379  
 (623) 444-6143

## MECHANICAL SPECIFICATIONS

### GENERAL REQUIREMENTS

GENERAL PROVISIONS WHICH MAKE SPECIFIC REFERENCE TO ELECTRICAL DIVISION ONLY ARE INCLUDED HEREIN FOR CLARITY AND SIMPLIFICATION OF SPECIFICATIONS WRITING AND ARE NOT PART OF THE MECHANICAL WORK. THE WORK OF DIVISION 15, MECHANICAL, IS SUBJECT TO THE CONDITIONS OF THE CONDITIONS OF THE CONTRACT, DIVISION 1, GENERAL REQUIREMENTS, AND APPLICABLE REQUIREMENTS OF OTHER PORTIONS OF THE CONTRACT DOCUMENTS. EXAMINE AND BECOME FAMILIAR WITH ALL CONTRACT DOCUMENTS AND COORDINATE THE MECHANICAL WORK ACCORDINGLY.

### INTENT

IT IS THE INTENTION OF THE SPECIFICATIONS AND DRAWINGS TO CALL FOR FINISHED WORK, TESTED AND READY FOR OPERATION. ANY APPARATUS, APPLIANCE, MATERIAL OR WORK NOT SHOWN ON THE DRAWINGS, BUT MENTIONED IN THE SPECIFICATIONS OR VICE VERSA, OR ANY INCIDENTAL ACCESSORIES NECESSARY TO MAKE THE WORK COMPLETE AND READY FOR OPERATION, EVEN IF NOT PARTICULARLY SPECIFIED, SHALL BE PROVIDED WITHOUT ADDITIONAL EXPENSE TO THE OWNER. SHALL THERE APPEAR TO BE DISCREPANCIES OR QUESTIONS OF INTENT IN THE CONTRACT DOCUMENTS, REFER THE MATTER TO THE ARCHITECT FOR HIS DECISION BEFORE ORDERING ANY MATERIALS OR EQUIPMENT OR BEFORE THE START OF ANY RELATED WORK. THE DECISION OF THE ARCHITECT SHALL BE FINAL, CONCLUSIVE AND BINDING.

### DRAWINGS AND DATA

DRAWINGS ARE GENERALLY DIAGRAMMATIC AND ARE INTENDED TO CONVEY SCOPE OF WORK AND TO INDICATE GENERAL ARRANGEMENT OF EQUIPMENT, DUCTS, CONDUITS, PIPING AND FIXTURES. THEY ARE NOT INTENDED TO SHOW EVERY OFFSET OR FITTINGS OR EVERY STRUCTURAL DIFFICULTY THAT MAY BE ENCOUNTERED DURING INSTALLATION OF THE WORK. LOCATION OF ALL ITEMS NOT DEFINITELY FIXED BY DIMENSIONS ARE APPROXIMATE ONLY. EXACT LOCATIONS NECESSARY TO SECURE BEST CONDITIONS AND RESULTS MUST BE DETERMINED AT PROJECT AND SHALL HAVE APPROVAL OF ARCHITECT BEFORE BEING INSTALLED. DO NOT SCALE DRAWINGS. IF SO DIRECTED BY ARCHITECT, WITHOUT EXTRA CHARGE, MAKE REASONABLE MODIFICATIONS IN LAYOUT AS NEEDED TO PREVENT CONFLICT WITH WORK OF OTHER TRADES OR FOR PROPER EXECUTION OF WORK. INCLUDE MINOR DETAILS NOT USUALLY SHOWN OR SPECIFIED, BUT NECESSARY FOR PROPER INSTALLATION AND OPERATION OF A SYSTEM OR PIECE OF EQUIPMENT IN BID PRICE.

### CODES

INCLUDE IN WORK, WITHOUT EXTRA COST TO OWNER, LABOR, MATERIALS, SERVICES, APPARATUS, DRAWINGS (IN ADDITION TO CONTRACT DRAWINGS AND DOCUMENTS) REQUIRED TO COMPLY WITH APPLICABLE LAWS, ORDINANCES, RULES AND REGULATIONS. DRAWINGS AND SPECIFICATIONS TAKE PRECEDENCE WHEN THEY ARE MORE STRINGENT THAN CODES, ORDINANCES, STANDARDS AND STATUTES. CODES, ORDINANCES, STANDARDS AND STATUTES TAKE PRECEDENCE WHEN THEY ARE MORE STRINGENT OR CONFLICT WITH DRAWINGS OR SPECIFICATIONS. FOLLOWING INDUSTRY STANDARDS, SPECIFICATIONS AND CODES ARE MINIMUM REQUIREMENTS:

- A. APPLICABLE CITY, COUNTY, AND STATE MECHANICAL, ELECTRICAL, GAS, PLUMBING, HEALTH AND SANITARY CODES, LAWS AND ORDINANCES.
- B. CITY OR OTHER APPLICABLE BUILDING CODES.
- C. 2018 INTERNATIONAL MECHANICAL CODE WITH LOCAL AMENDMENTS.
- D. REGULATIONS, PERMITS, INSPECTIONS: COMPLY WITH ALL APPLICABLE CODES, RULES AND REGULATIONS. WITH MATERIALS, EQUIPMENT AND WORK MUST CONFORM TO THE INTERNATIONAL MECHANICAL CODE. OBTAIN AND PAY FOR ALL REQUIRED PERMITS AND LICENSES. WHEN REQUIRED BY CODE, ALL WORK MUST BE INSPECTED AND APPROVED BY LOCAL AUTHORITIES.

### GENERAL

MATERIALS AND EQUIPMENT STANDARD PRODUCTS OF A REPUTABLE MANUFACTURER REGULARLY ENGAGED IN MANUFACTURE OF THE SPECIFIED ITEMS. WHERE MORE THAN ONE UNIT IS REQUIRED OF ANY ITEM, FURNISHED BY THE SAME MANUFACTURER, EXCEPT WHERE SPECIFIED OTHERWISE. INSTALL MATERIAL AND EQUIPMENT IN ACCORDANCE WITH MANUFACTURER'S RECOMMENDATIONS. SHOULD VARIANCE BETWEEN PLANS AND SPECIFICATIONS OCCUR WITH THESE, CONTACT ARCHITECT IMMEDIATELY SO THAT VARIATIONS IN INSTALLATION CAN BE KNOWN BY ALL PARTIES CONCERNED. PROVIDE EQUIPMENT FROM MANUFACTURER WHOSE PRODUCTS HAVE LOCAL REPRESENTATION.

### EXECUTION

PROTECT EXISTING ACTIVE SERVICES (WATER, GAS, SEWER, ELECTRIC) WHEN ENCOUNTERED, AGAINST DAMAGE FROM CONSTRUCTION WORK. DO NOT PREVENT OR DISTURB OPERATION OF ACTIVE SERVICES WHICH ARE TO REMAIN. IF WORK MAKES TEMPORARY SHUTDOWNS OF SERVICES UNAVOIDABLE, CONSULT WITH OWNER AS TO DATES, PROCEDURES, AND ESTIMATED DURATION OF AT LEAST TO WORKING DAYS IN ADVANCE OF DATE WHEN WORK IS TO BE PERFORMED. ARRANGE WORK FOR CONTINUOUS PERFORMANCE TO ASSURE THAT EXISTING OPERATING SERVICES WILL BE SHUT DOWN ONLY DURING THE TIME REQUIRED TO MAKE NECESSARY CONNECTIONS. IF A SYSTEM CANNOT SHUT DOWN, INSTALL TEMPORARY BYPASSES OR JUMPERS UNTIL CONNECTIONS ARE COMPLETE. CONTRACTOR RESPONSIBLE FOR ALL COSTS INCURRED BY ABOVE SHUTDOWNS, INCLUDING BYPASS OR JUMPER INSTALLATIONS, FOR WORK PERFORMED UNDER THIS SECTION. IF EXISTING ACTIVE UTILITY SERVICES ARE ENCOUNTERED WHICH REQUIRE RELOCATION, MAKE REQUEST TO PROPER AUTHORITIES FOR DETERMINATION OF PROCEDURES. PROPERLY TERMINATE EXISTING SERVICES TO BE ABANDONED IN CONFORMANCE WITH REQUIREMENTS OF AUTHORITIES. WHERE CONNECTIONS OR DISRUPTIONS ARE MADE TO EXISTING SYSTEMS, REACTIVATE, REFILL, AND RECHARGE ALL COMPONENTS AND RESTORE SYSTEMS TO OPERATING CONDITIONS AT TIME OF DISRUPTION.

### GUARANTEE

EACH COMPLETE SYSTEM GUARANTEED BY CONTRACTOR FOR A PERIOD OF ONE YEAR, FROM DATE OF ACCEPTANCE OF WORK BY OWNER IN WRITING, TO BE FREE OF DEFECTS OF MATERIALS AND WORKMANSHIP, AND TO PERFORM SATISFACTORILY UNDER ALL CONDITIONS OF LOAD OR SERVICE. THE GUARANTEES PROVIDE THAT ANY ADDITIONAL CONTROLS, PROTECTIVE DEVICES, OR EQUIPMENT BE PROVIDED AS NECESSARY TO MAKE THE SYSTEM OF EQUIPMENT OPERATE SATISFACTORILY, AND THAT ANY FAULTY MATERIALS OR WORKMANSHIP BE REPLACED OR REPAIRED. ON FAILURE OF GUARANTOR TO DO THE ABOVE AFTER WRITTEN NOTICE FROM OWNER, THE OWNER MAY HAVE THE WORK DOWN AT THE COST OF GUARANTOR. LOSS OF REFRIGERANT IS CONSIDERED A DEFECT IN WORKMANSHIP AND/OR EQUIPMENT, TO BE CORRECTED AS REQUIRED AT NO EXTRA COST TO THE OWNER. PROVIDE EXTENDED FIVE (5) YEAR FACTORY PARTS & LABOR WARRANTY ON ALL AIR CONDITIONING COMPRESSORS.

### AIR CONDITIONING, HEATING AND VENTILATING

#### SCOPE

WORK UNDER THIS SECTION INCLUDES FURNISHING ALL LABOR, MATERIALS AND EQUIPMENT NECESSARY FOR THE REMODELING, INSTALLATION AND PLACING INTO OPERATION THE HEATING, VENTILATING AND AIR CONDITIONING WORK AS SPECIFIED HEREIN AND INDICATED ON THE DRAWINGS.

#### VERIFICATION OF DIMENSIONS:

SCALED AND FIGURED DIMENSIONS ARE APPROXIMATE ONLY. BEFORE PROCEEDING WITH WORK, CAREFULLY CHECK AND VERIFY AT THE SITE, AND RESPONSIBLE FOR PROPERLY FITTING EQUIPMENT AND MATERIALS TOGETHER AND TO THE STRUCTURE IN SPACES PROVIDED. DRAWINGS ARE ESSENTIALLY DIAGRAMMATIC AND MANY OFFSETS, BENDS, SPECIAL FITTINGS AND EXACT LOCATIONS ARE NOT INDICATED. CAREFULLY STUDY DRAWINGS AND PREMISES IN ORDER TO DETERMINE BEST METHODS, EXACT LOCATIONS, ROUTES AND BUILDING OBSTRUCTIONS, PRESERVE HEADROOM, AND KEEP OPENINGS AND PASSAGEWAYS CLEAR.

#### CUTTING AND PATCHING:

CUT EXISTING WORK AND PATCH AS NECESSARY TO PROPERLY INSTALL THE NEW WORK. AS THE WORK PROGRESSES, LEAVE NECESSARY OPENINGS, HOLES AND CHASES, ETC., IN THEIR CORRECT LOCATIONS. IF THE REQUIRED OPENINGS, HOLES AND CHASES ETC., ARE NOT IN THEIR CORRECT LOCATIONS, MAKE THE NECESSARY CORRECTIONS AT NO COST TO THE OWNER. AVOID EXCESSIVE CUTTING AND DO NOT CUT STRUCTURAL MEMBERS WITHOUT CONSENT OF ARCHITECT.

#### REGULATIONS, PERMITS & INSPECTIONS

COMPLY WITH ALL APPLICABLE CODES, RULES AND REGULATIONS. ALL MATERIALS, EQUIPMENT AND WORK MUST CONFORM TO THE INTERNATIONAL MECHANICAL CODE. OBTAIN AND PAY FOR ALL REQUIRED PERMITS AND LICENSES. WHEN REQUIRED BY CODE, ALL WORK MUST BE INSPECTED AND APPROVED BY LOCAL AUTHORITIES.

#### DUCTWORK

ALL DUCTWORK FABRICATED AS PER LATEST INTERNATIONAL MECHANICAL CODE REQUIREMENTS AND SMACNA MANUAL. EXTENSION OF EXISTING DUCTWORK SHALL BE MADE WITH SOME MATERIAL. DUCTWORK SHALL BE CONSTRUCTED OF NEW HOT-DIPPED GALVANIZED SHEET METAL ASTM A-120 FOR EACH SIDE. TAPE ALL CROSS-JOINTS IN SHEET METAL DUCT WITH HARDCAST. TAKE-OFF FITTINGS SHALL BE CONICAL SPIN-IN WITH QUADRANT DAMPER. TURNING VANES SHALL BE INSTALLED IN ALL MITERED ELBOWS.

#### HVAC EQUIPMENT CONDENSATE DRAINS

USE TYPE M COPPER TUBING AND WROUGHT COPPER MECHANICAL FITTINGS. EXTEND DRAINS TO NEAREST ROOF DRAIN OR LAVATORY TAIL-PIECE (FURNISHED BY PLUMBER). SLOPE DRAIN AT A MINIMUM OF 1/8" PER FOOT.

## UNIT HEATER SCHEDULE

EQUIP. NO.	MANUFACTURER	MODEL NO.	BLOWER			MOTOR		HEATER				FLUE (DIA.)	WT. (LBS)	REMARKS
			CFM	ESP	MIN. THROW	HP	VOLTS/ PHASE	FUEL	EFF.	MAX. INPUT MBH	MIN. OUTPUT MBH			
1	REZTOR	UDX-75	961	0	x	0.06	120/1	NAT. GAS	83%	60,000	49,800	4" RD	76	① ② ③ ④

① PROVIDE UNIT HEATER WITH LOW VOLTAGE THERMOSTAT WITH INSULATED SUB-BASE, W/ LOCKING COVER.      ③ PROVIDE UNIT WITH 2-POINT SUSPENSION KIT.  
 ② PROVIDE UNIT WITH ELECTRONIC SPARK IGNITION.      ④ INPUT RATINGS SHOWN HAVE BEEN DERATED FOR 5,000 FT ELEVATION. INPUT RATE CHANGES FROM STANDARD CAN BE MADE BY ADJUSTING MANIFOLD PRESSURE (MIN 3.0 – MAX 3.7) OR BY CHANGING ORIFICE.

## EXHAUST FAN SCHEDULE

MARK	SERVES	MANUF.	MODEL	CFM	E.S.P. (in. wg)	ELEC			DRIVE	SONES	WEIGHT LBS	REMARKS
						AMPS	HEAT	V/PH				
1	RESTROOM	BROAN	BHF80	75	.175	12	1300 W	120/1	DIRECT	1.5	12	① ②

① UNIT TO OPERATE VIA WALL SWITCH WITH SEPERATE FAN & HEATER CONTROL.      ② PROVIDE #JV6 FAMCO ROOF DISCHARGE CAP.

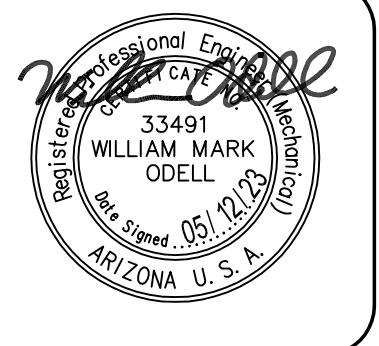
## EVAPORATIVE COOLER SCHEDULE

MARK	MANUFACT.	MODEL	CFM	EXT. S.P.	HP	ELECTRIC			WT. (lbs)	REMARKS	
						VOLTS	PHASE	HERTZ			
1	PMI	H8801	6300	0.30	1-1/2	230	1	60	6.8 gpm @ 115V/1φ	476	① ② ③

① UNIT SHALL BE MOUNTED ON FIELD FABRICATED STAND.      ③ PROVIDE OFF/ON/PUMP CONTROLS AND ALL CONNECTING WIRING.  
 ② CONTRACTOR SHALL PROVIDE AND INSTALL A BLEED-OFF KIT.

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**ARCHITECTURE & PLANNING**

**DRAWING:** Mechanical Schedules

**PROJECT:** Commercial Building on Slide Rd.  
5416 Slide Rd.  
Prescott, AZ 86301

**APN:** 103-01-038

<b>DRAWN BY</b>
<b>CHECKED BY</b>
<b>DATE</b> March 24th, 2023
<b>JOB NO.</b> 777
<b>SHEET</b>

# M2.0

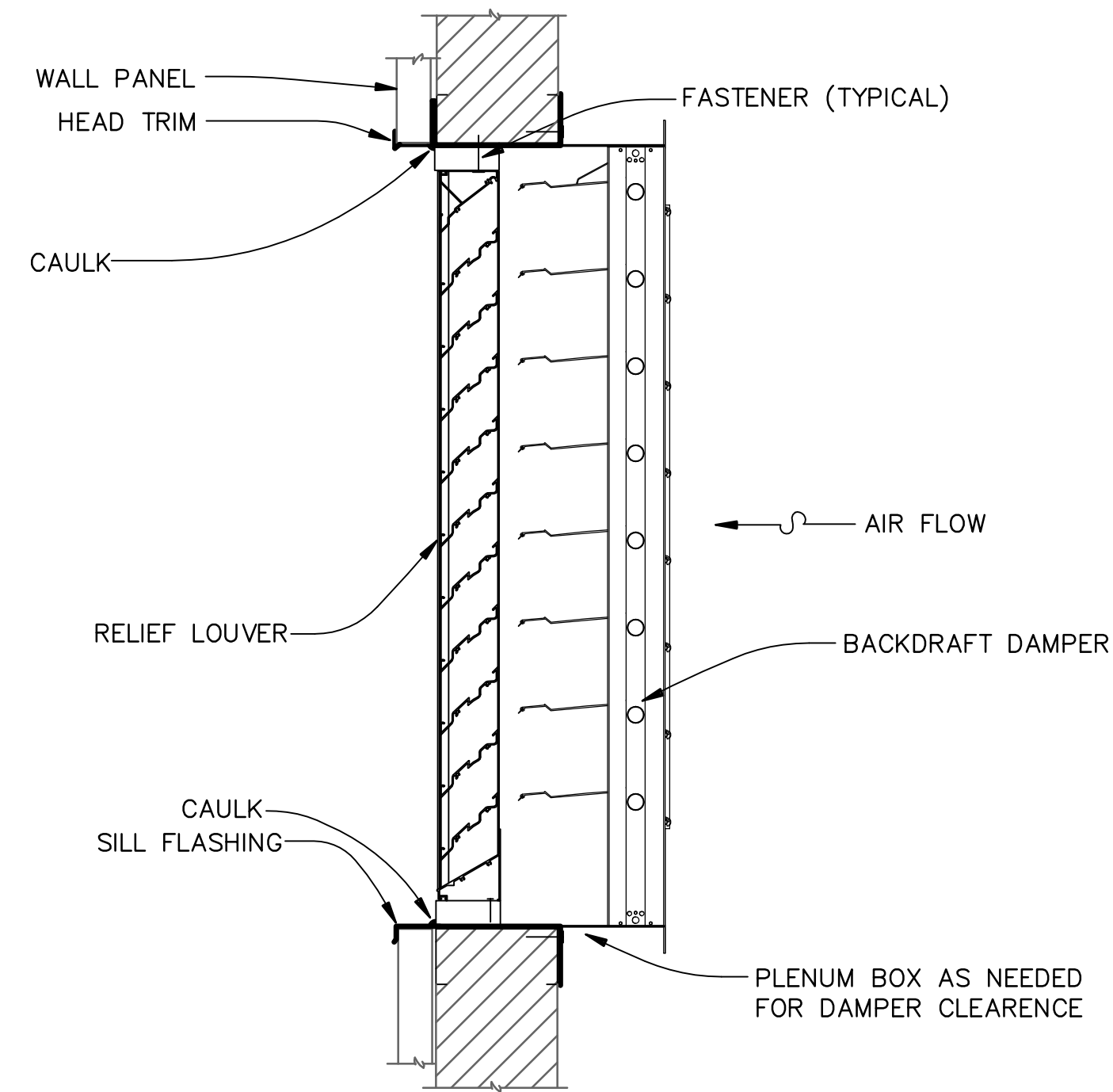


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Project #23030

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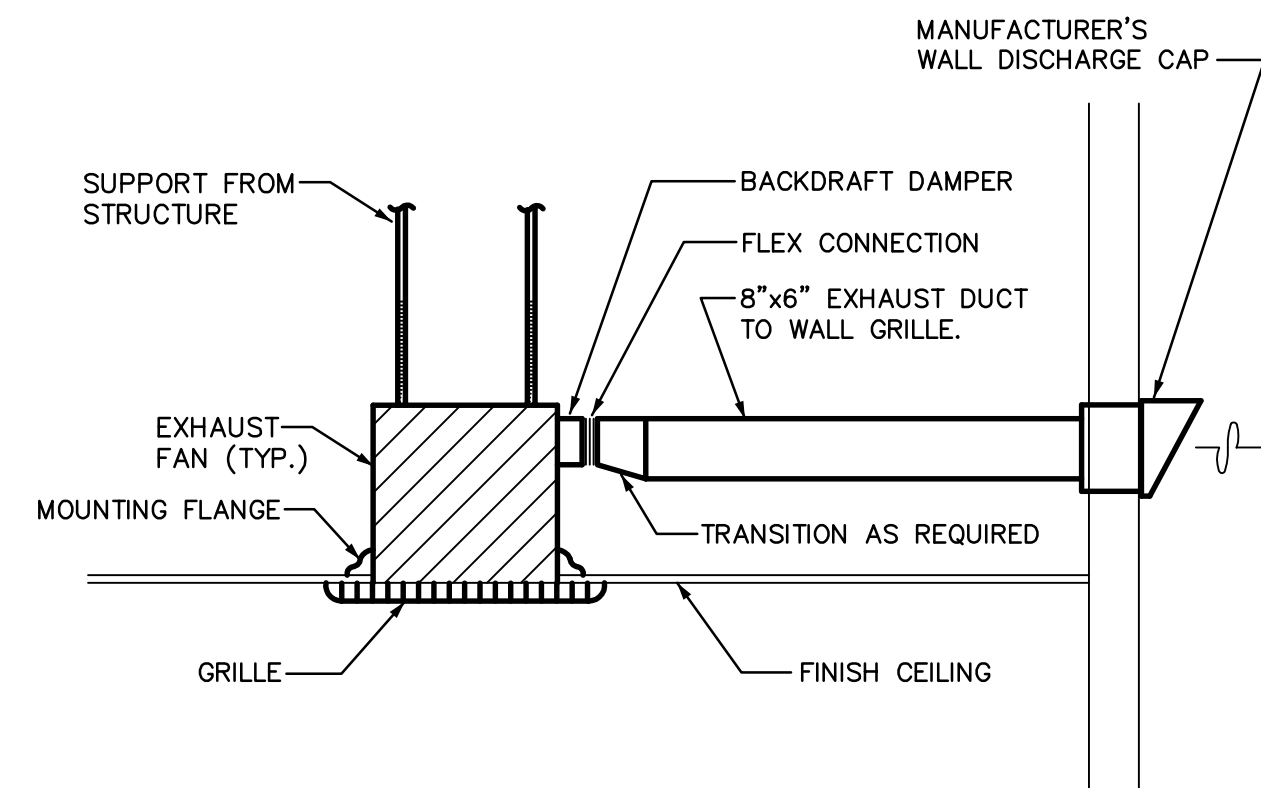




**RELIEF LOUVER WITH BACKDRAFT DAMPER**

NOT TO SCALE

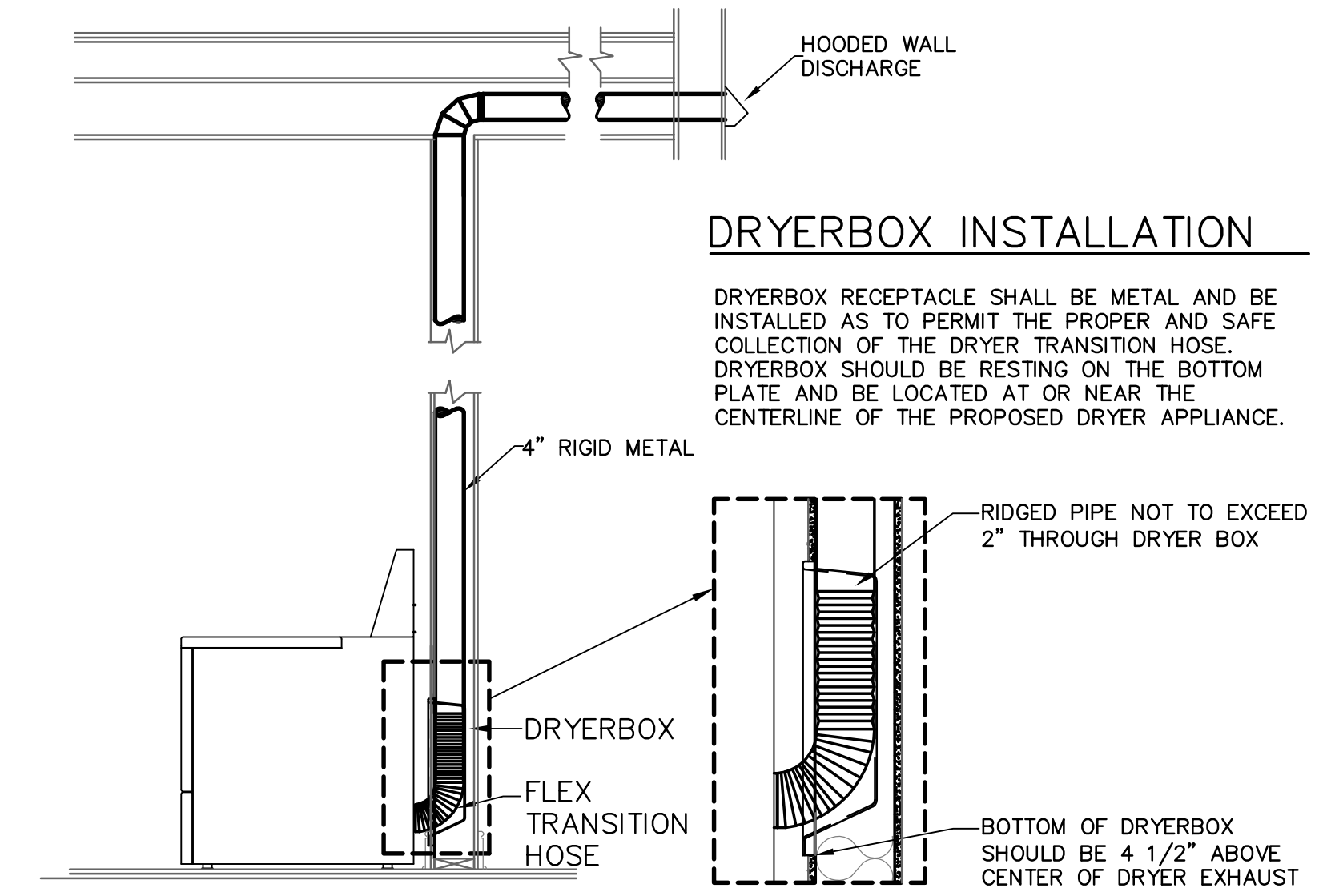
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**EXHAUST FAN DETAIL**

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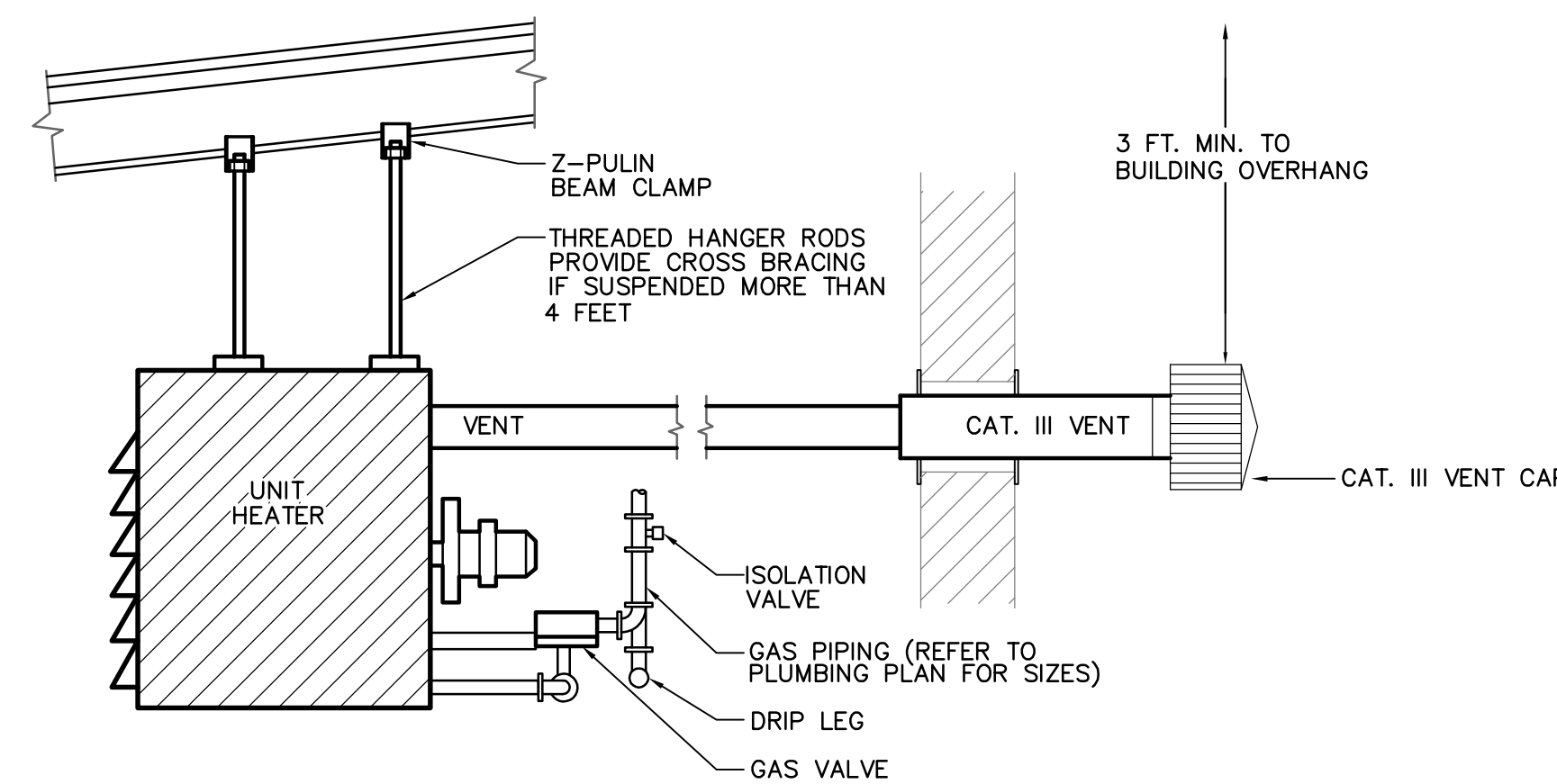
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**DRYER BOX DETAIL**

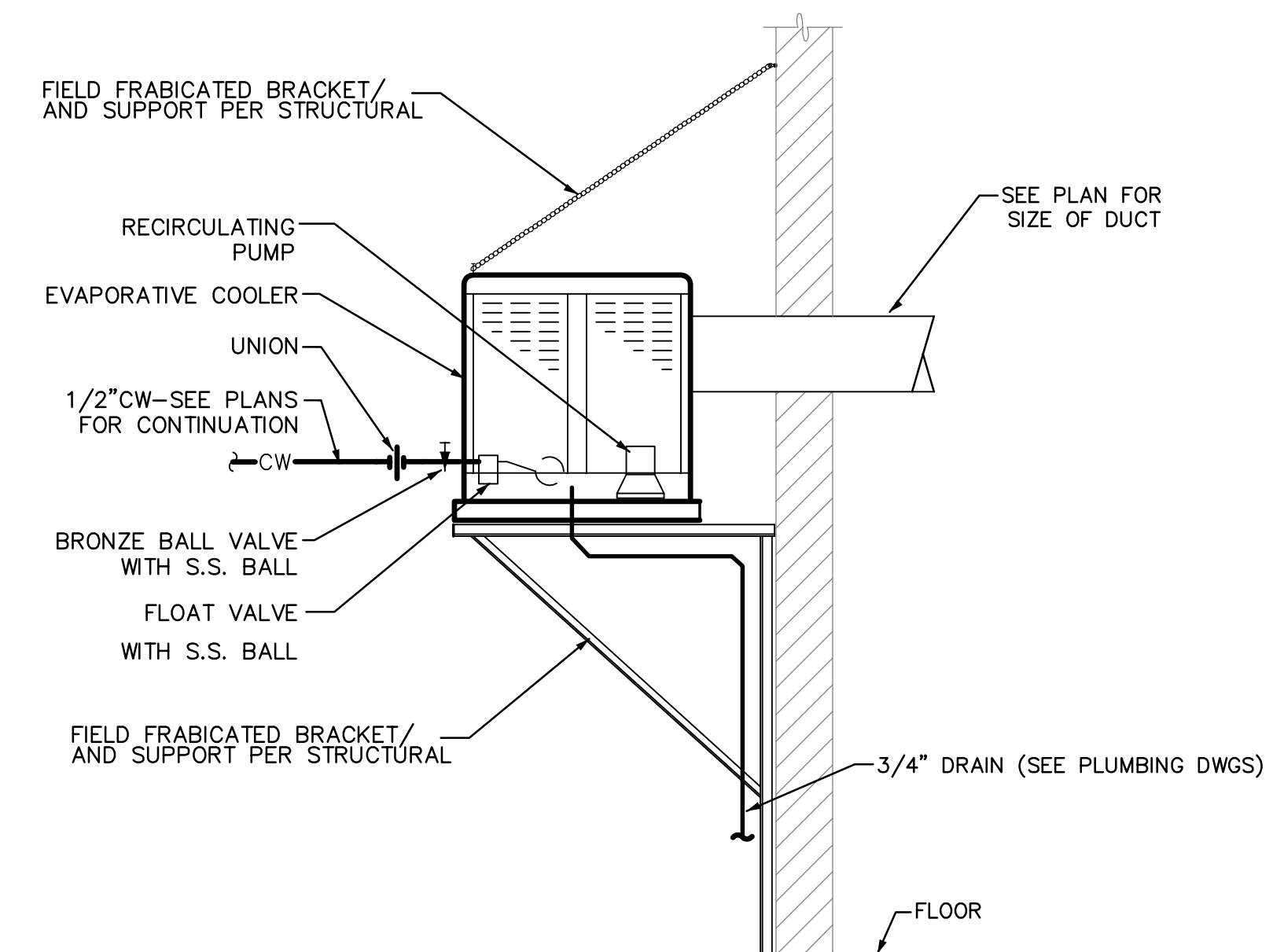
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M3.0



**GAS FIRED UNIT HEATER**

4  
M3.0



**EVAPORATIVE COOLER DETAIL**

NO SCALE

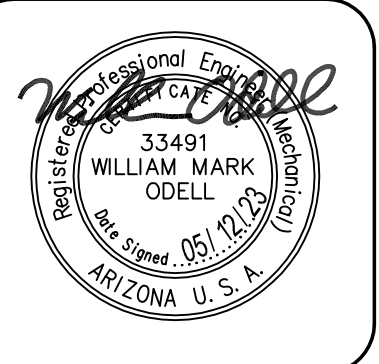
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**ARCHITECTURE & PLANNING**

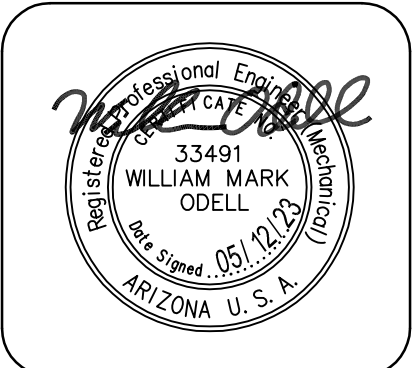
**DRAWING:** Mechanical Details  
**PROJECT:** Commercial Building on Slide Rd.  
 5416 Slide Rd.  
 Prescott, AZ 86301  
**APN:** 103-01-038

<b>DRAWN BY</b>
<b>CHECKED BY</b>
<b>DATE</b> March 24th, 2023
<b>JOB NO.</b> 777
<b>SHEET</b>

**M3.0**

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**ARCHITECTURE & PLANNING**

**DRAWING:** Plumbing Floor Plan  
**PROJECT:** Commercial Building on Side Rd.  
 5416 Side Rd.  
 Prescott, AZ 86301  
**APN:** 103-01-038

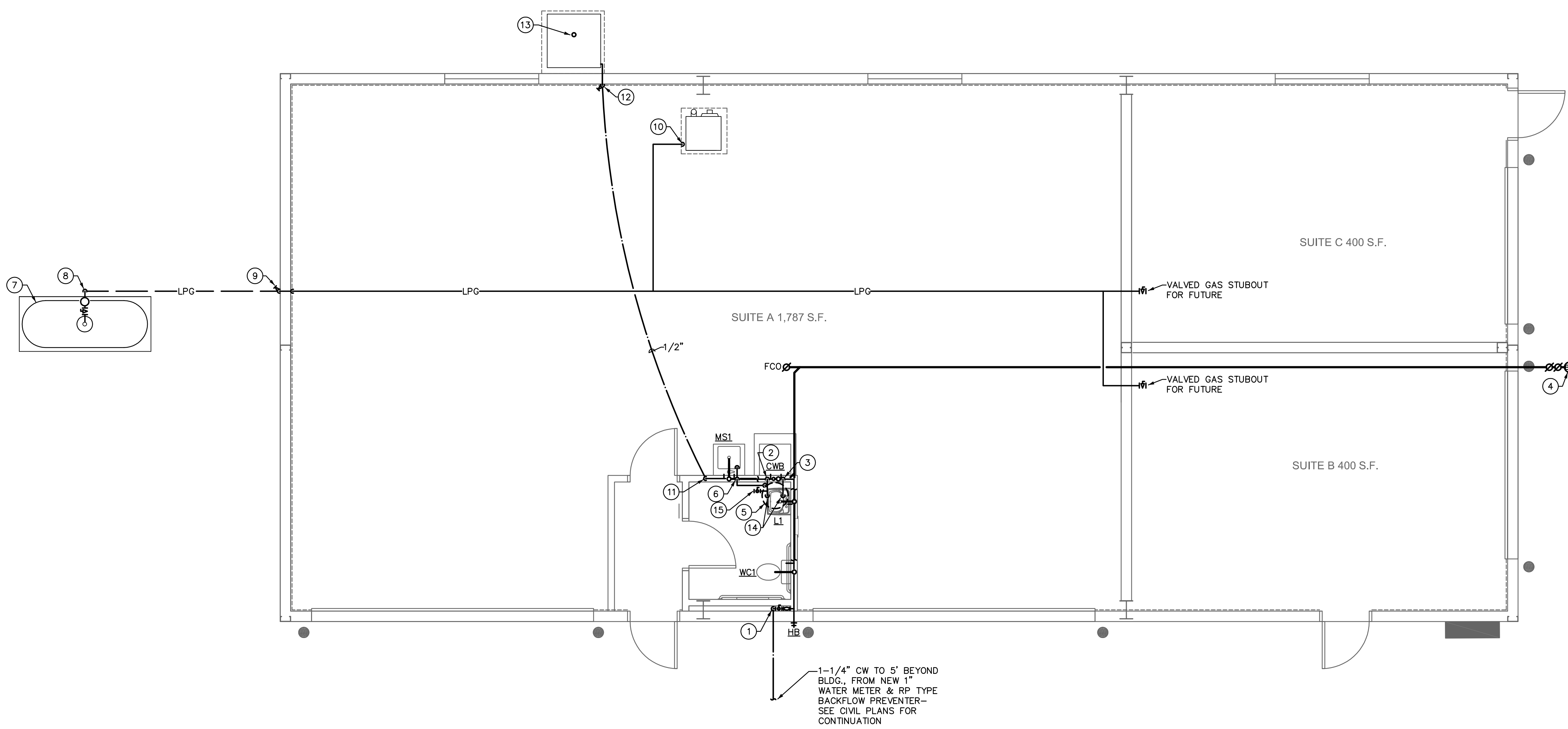
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**DATE**  
 March 24th, 2023  
**JOB NO.**  
 777  
**SHEET**  
**P1.0**

**KEYNOTES:**

- 1 1-1/4" CW RISE FROM BELOW GRADE TO BALL VALVE & PRESSURE REDUCING VALVE (SET AT 80 PSI) IN WALL. PROVIDE ACCESS PANEL AT INTERIOR WALL FOR VALVE ACCESS. TAKE 1-1/4" OUT OF VALVE TO 1-1/4" HEADER, WITH 3/4" TO HOSE BIBB, 1/2" TO WC, LAV, CLOTHESWASHER BOX & MOP SINK.
- 2 1" CW OFF 1-1/4" HEADER, UP TO 1" STUBOUT, 3/4" TO WATER HEATER.
- 3 3/4" HW OUT OF WATER HEATER, DOWN, WITH 1/2" TO MOP SINK, CLOTHESWASHER BOX, & LAV.
- 4 PROVIDE BACKWATER VALVE TO COMPLY WITH PRESCOTT VALLEY REQUIREMENTS. PROVIDE TRAFFIC RATED COVER.
- 5 ELECTRIC WATER HEATER WH-1 SEE DETAIL, SCHEDULE, SHEET P2.0.
- 6 FULL SIZE WATER HEATER P & T RELIEF DRAIN LINE DOWN TO TERMINATE +2" ABOVE MOP SINK RIM.
- 7 PROPANE TANK ON CONCRETE PAD UNDER SEPARATE PERMIT.
- 8 GAS OUT OF TANK (REGULATE TO 11" W.C.). DROP TO ROUTE BELOW GRADE.
- 9 GAS RISE FROM BELOW GRADE (PROVIDE BUILDING SHUTOFF COCK ON RISER) & ENTER BLDG. AT +4' A.F.G.; RISE ALONG INSIDE FACE OF WALL TO ROUTE AT CEILING.
- 10 GAS PIPING CONNECTION TO UNIT HEATER. PROVIDE LUBRICATED PLUG COCK & 6" DIRT LEG AT UNIT CONNECTION.
- 11 1/2" CW DOWN TO ROUTE BELOW SLAB.
- 12 1/2" CW RISE FROM BELOW SLAB TO STOP & DRAIN VALVE. AFTER VALVE RISE TO EXIT BLDG. & CONNECT TO EVAP. COOLER. PROVIDE NEEDLE VALVE SHUTOFF AT UNIT CONNECTION.
- 13 3/4" BLEED & DRAIN LINE CONNECTION TO COOLER DRAIN OUTLET. PIPING MATERIAL: TYPE "M" COPPER. DROP WITH DRAIN LINE TO TERMINATE AT GRADE.
- 14 3/4" H & CW DOWN TO WATER HEATER.
- 15 1" VALVED CW STUBOUT FOR FUTURE T'S.

**NOTE:**  
 INVERTS ARE BASED ON ASSUMED FINISHED FLOOR ELEVATION OF 100.00

**NOTE:**  
 SLOPE ALL HORIZONTAL WASTE PIPING AS FOLLOWS:  
 FOR PIPE SIZES UP THROUGH 3", SLOPE AT 1/4" PER FT.  
 FOR PIPE SIZES 4" & ABOVE, SLOPE AT 1/8" PER FT.



**1 Plumbing Floor Plan**

Scale: 1/4"=1'-0" **North**

**PLUMBING NOTE:**  
 ALL PLUMBING FIXTURES SHALL BE OF A LOW-FLOW DESIGN WHICH LIMITS THE WATER FLOW NOT TO EXCEED THE FOLLOWING:  
 WATER CLOSETS: 1.6 GALLONS PER FLUSH  
 LAV FAUCETS: .5 GALLONS PER MINUTE

**PLUMBING NOTES:**  
 1. WATER PIPING LOCATED IN EXTERIOR WALLS SHALL BE INSTALLED ON THE BUILDING INTERIOR SIDE OF THE BLDG. INSULATION.  
 2. EXTERIOR WATER PIPING SHALL BE INSTALLED BELOW FROST LINE.

PLUMBING LEGEND		
SYMBOL	ABBR.	DESCRIPTION
—W—	W	WASTE PIPING
—V—	V	VENT PIPING
—LPG—	LPG	PROPANE GAS PIPING
—CW—	CW	COLD WATER PIPING
—HW—	HW	HOT WATER PIPING
—HWR—	HWR	HOT WATER RETURN PIPING
—BV—	BV	BALL VALVE
—FCO, SCO—	FCO, SCO	FLOOR OR SURFACE CLEANOUT
—WCO—	WCO	WALL CLEANOUT
—VTR—	VTR	VENT THRU ROOF
—HB—	HB	HOSE BIBB



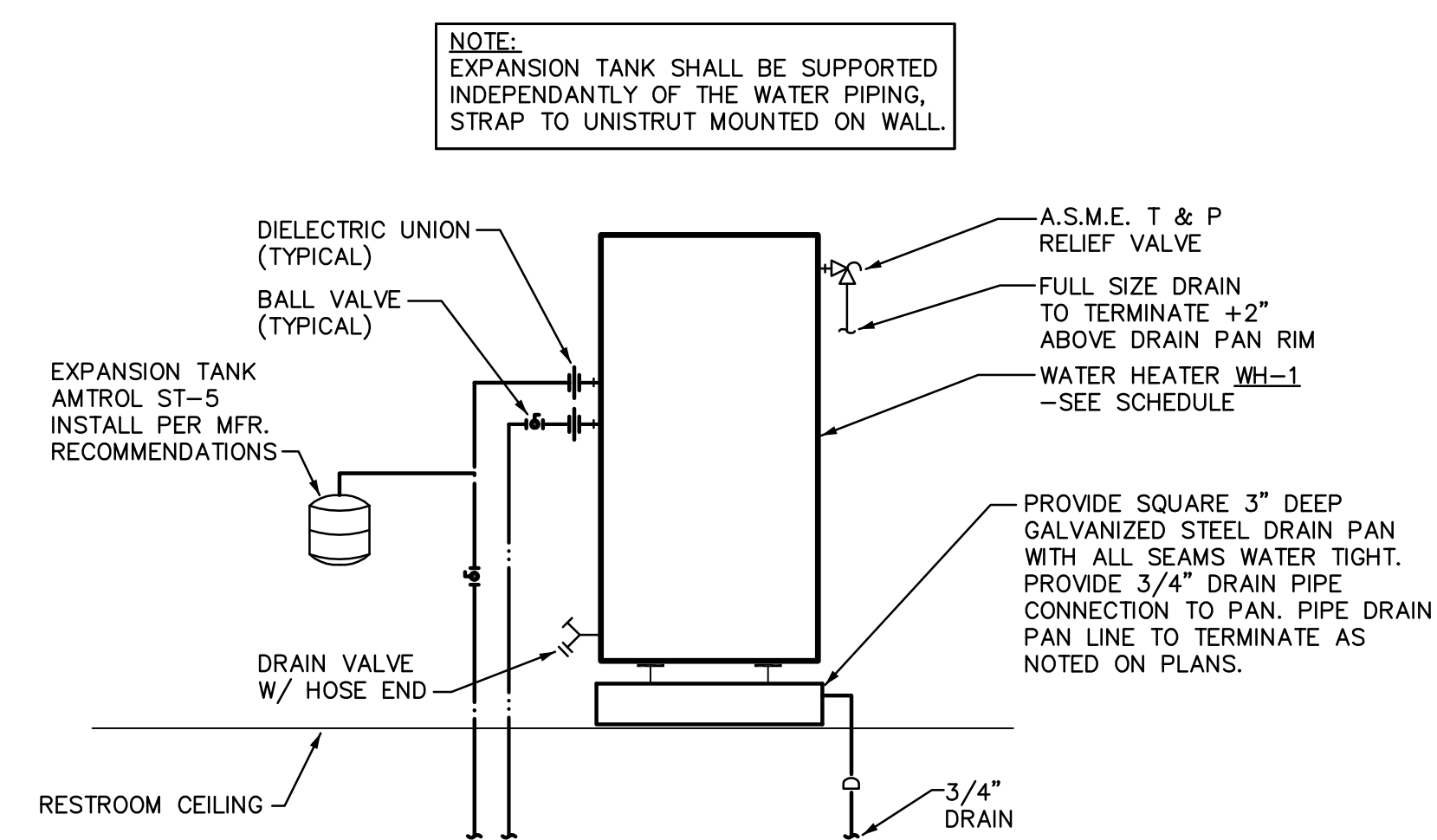
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 11759 N. 143rd Ave.  
 Surprise, AZ 85379  
 (623) 444-6143

PLUMBING SPECIFICATIONS:

- 1. GENERAL
1.1 Scope: Work under this section includes coordinating and furnishing all labor and material necessary to install a complete plumbing system as shown and specified and in accordance with the codes. Contractor shall pay for all permits, meters, fees, city inspections, legal notices, etc., as required.
1.2 Submittals: Within 15 days after award of contract, submit 8 copies of all items.
1.3 Record Drawings: Provide a set to the Architect at completion of project.
1.4 Instructions: Provide maintenance manual and instruct Owner in the proper operation and maintenance of the equipment.
1.5 Guarantee: One year on labor, material and equipment.
2. PRODUCTS
2.1 Piping:
2.1.1 Water Lines:
2.1.1.1 Copper: Type "L" hard drawn, conforming to ASTM B88, for all water pipe not set under concrete or in the ground.
2.1.1.2 Copper: Type "K" soft drawn, conforming to ASTM B88, for water pipe set in or under concrete or in the ground. Wrap lines below concrete floors with 20 mils of polykan tape.
2.1.1.3 Fittings: Wrought copper conforming to ANSI B16.22.
2.1.1.4 Plastic: If permitted by Administrative Authority, IAPMO approved, NSF-61 listed, crosslinked polyethylene (PEX) tubing, equal to Wirbo "AQUAPEX" system is acceptable for potable water piping.
2.1.2 Sanitary Waste and Vent Piping:
2.1.2.1 Cast iron conforming to CISPI Standard 301-95 and ASTM A-888 for all no-hub pipe and fittings installed above and below grade.
2.1.2.2 Galvanized Iron: Standard weight, Schedule 40 galvanized iron conforming to ASTM A-120 for all vent lines 2-1/2" or smaller.
2.1.2.3 Fittings (Waste and Vent System, no-hub cast iron): No-hub cast iron drainage pattern fittings conforming to CISPI #301-95.
2.1.2.4 Fittings (Waste and Vent, galvanized steel): Threaded cast iron fittings conforming to ANSI B16.4.
2.1.2.5 Couplings (Waste and Vent, above and below grade): Double band, stainless steel couplings conforming to CISPI 310-95, with neoprene gasket conforming to ASTM Standard C564 (NOTE: Screened stainless shield is not approved).
2.1.2.6 Plastic: Subject to Architect approval, PVC piping conforming to ASTM D-2665-88 is acceptable for sanitary waste piping installed below grade or slab. Fittings: Drainage fittings to match pipe.
2.1.3 LP Gas (Propane) Piping:
2.1.3.1 (Underground): All pipe, tubing, and fittings shall be polyethylene 2306/2406 conforming to ASTM D-1248 and D-3350 for P.E. 2306/2406.
2.1.3.2 (Above grade, exterior): All pipe sizes, black steel pipe, Schedule 40, wrought steel buttwelded fittings.
2.1.3.3 (Above grade, inside building): Schedule 40 black steel. Pipe fittings shall conform to the following:
Pipe 2" and Smaller: Malleable iron threaded fittings.
Pipe 2-1/2" and Larger: Wrought steel buttwelded fittings.
2.1.3.4 Risers: All risers in the system from below grade shall be pre-manufactured anodeless type as manufactured by Central Manufacturing Co., Shawnee, OK, or approved equal.
2.1.4 Tracer Wire: Provide approved 14 gauge copper (orange covered) tracer wire along all non metallic underground piping.
2.2 Pipe Hangers and Supports: Fee & Mason Figure 103 clevis hanger for insulated pipe and Figure 104 clevis hanger for cast iron pipe. Install #500 Trisolators on uninsulated copper lines at all hangers and wall penetrations.
2.3 Pipe Insulation: Use fiberglass remolded insulation with all-service jacket, minimum density of 3.5 pcf. Provide an additional 8-ounce canvas jacket with Arabal finish around all exposed pipe insulation. Cover fittings and valves (except unions) with insulation cement worked on in two applications to a smooth, hard surface, flush with pipe covering. Provide 8" long, 20 gauge, galvanized iron metal insulation guards at locations of hanger rods and supports. Provide 12" long rigid insulation blocks on bottom half of pipe 1" and larger at hangers. Insulation wall thickness shall conform to the following schedule:
Domestic Hot Water, Hot Water Recirculating Lines:
Mains and horizontal branches - 1" thickness.
Drops in walls and partitions - 1/2" thickness.
2.4 Valves:
2.4.1 Gate Valves: Milwaukee 115, 125#, bronze body, solder type gate valve with nonrising stem for all lines up through 3" size.
2.4.2 Check Valves: Milwaukee #1509, 125#, bronze body, solder joint check valve with horizontal bronze disc for all valves up to 2" size. Milwaukee #2974, 125#, iron body, bronze trimmed, flanged horizontal check valve for all valves larger than 2" size.
2.4.3 Shutoff Valve: Milwaukee BBI-350 bronze body, solder joint valve for all lines up through 2".
2.5 Cleanouts:
2.5.1 Concrete and Tile Floors: J.R. Smith 4023, with scoriated nickel-bronze top.
2.5.2 Cleanouts (exposed vertical piping): J.R. Smith 4512 cast iron branch cleanout tee with bronze plug.
2.5.3 Interior Finished Walls: J.R. Smith 4532.
2.5.4 Exterior Surface Cleanouts: J.R. Smith 4253. Provide 18" x 18" x 6" concrete pad at landscape areas; provide concrete ring below grade at asphalt areas.
2.5.5 Provide all cleanouts with heavy threaded bronze plugs.
2.6 Plumbing Fixtures: Use polished chrome-plated, adjustable brass P-traps with wall escutcheons at all exposed locations. Use polished chrome-plated faucets with removable trim, brass body and brass handles. Fixtures and supply fitting shall be of one manufacturer. Provide diaphragm type, polished chrome-plated flush valves with integral vacuum breakers and screwdriver stops. Provide fixture stops or valves ahead of all equipment or fixtures. After fixtures are set in place and secured to walls, caulk all around between fixtures and wall with either Dow Corning #780 or G.E. Construction Sealant white silicone caulking compound.
2.7 Acceptable Manufacturers: The following is a list of manufacturers whose equipment is acceptable as to manufacturer, subject to conformance with all drawings, specifications and addenda items:
Fixtures: American Standard, Eljer, Kohler.
Electric Water Heaters: Ruud, A. O. Smith, American.
Map Sinks: Flat, Mustee, Swan.
Valves: Crane, Kennedy, Stockham, Grinnell, Milwaukee, Wolverine.
Supplies, Stops: Eastman, Kohler, Eljer, Brasscraft, McGuire.
P-Traps: Crane, Kohler, Eljer, Frost, McGuire.
Drains and Cleanouts: J. R. Smith, Zurn, Josam, Wade, Western.
Hangers: Grinnell, Fee & Mason, Elen, Kin-Line, F & S, B-Line, Michigan.

- 3. EXECUTION
3.1 Tests and Inspections:
3.1.1 All work to be tested and approved before covering as directed by Architect. Remake all leaking joints.
3.1.2 Water System: 125 psi hydrostatic pressure held for four hours.
3.1.3 Sanitary Waste and Vent System: Fill with water to highest point in the system and let stand without loss for two hours.
3.1.4 Gas System: Hold at 50 psi pneumatic for four hours with no pressure loss.
3.1.6 Sterilization (Domestic Water System): After tests have been completed, the entire domestic water distribution system shall be thoroughly flushed with water until all entrained dirt and mud have been removed, and shall be sterilized with solutions of either liquid chlorine conforming to Federal Specification BB-5-120 or hypochlorite conforming to Fed. Spec. O-C-114, Type II, Grade G, or Fed. Spec. O-S-602, Grade A or B. The chlorinating material shall provide a dosage of less than 50 parts per million and shall be introduced into the system in an approved manner, and retained in the system for 8 hours before flushing.
3.2 Flashing, Sleeves and Escutcheon Plates:
3.2.1 Flashing: Supply flashing for all vent pipe and other types of piping through roof to be installed with roofing. Flash vents with Stormon S1300-4 or with sheet lead weighing not less than 4 pounds per square foot or equal. Extend flashing into roofing at least 10" from vent and turn flashing over and down into vent opening.
3.2.2 Sleeves: Use 20 gauge galvanized steel sleeves around pipes passing through masonry walls and concrete slabs.
3.2.3 Escutcheon Plates: Install cast brass split ring with setscrew at all locations where exposed pipes pass through walls, floors or ceilings. Provide polished chrome-plated escutcheons in finished rooms, all others polished brass.
3.3 Underground Water Piping: Bury all underground water piping a minimum of 24" below finished grade. Install copper lines below concrete floors so that no joints occur below floor and wrap with 20 mils of polyethylene tape with a minimum of 50% overlap.
3.4 Electrical: Wiring by Electrical Contractor.

PLUMBING FIXTURE SPECIFICATIONS table with columns: SYMBOL, DESCRIPTION. Includes entries for WC-1 (Water Closet), L-1 (Lavatory), MS-1 (Mop Sink), WH-1 (Electric Water Heater), HB (Hose Bibb), and CWB (Clothes Washer Box).



WATER HEATER DETAIL
NO SCALE

PLUMBING GENERAL NOTES:

- 1. ALL PLUMBING WORK SHALL COMPLY WITH THE MOST STRINGENT OF APPLICABLE CODES, ORDINANCES, OR THE SPECIFICATIONS.
2. DETERMINE EXACT LOCATION & MOUNTING HEIGHT OF PLUMBING FIXTURES FROM ARCHITECTURAL DRAWINGS.
3. COORDINATE LOCATION OF ALL PLUMBING LINES WITH DUCTWORK AND ELECTRICAL SERVICES.
4. PRIOR TO SUBMITTING BID, CONTRACTOR SHALL REVIEW THE ARCHITECTURAL DRAWINGS & INCLUDE IN HIS BID AN AMOUNT TO FURNISH & INSTALL ANY FIXTURES SHOWN IN ADDITION TO PLUMBING DRAWINGS.
5. PROVIDE VACUUM BREAKERS ON HOSE BIBBS & ALL HOSE END FITTINGS.
6. LOCATE ALL VENTS THROUGH ROOF 10'-0" FROM ALL AIR INTAKES, EVAPORATIVE COOLERS, ETC.
7. VERIFY INVERT ELEVATIONS (WASTE LINES), SIZES, & LOCATIONS OF ALL EXISTING GAS, WATER & WASTE LINES TO WHICH NEW PIPING CONNECTS PRIOR TO MAKING-UP OR INSTALLATION OF PIPING.
8. LOCATE ALL VALVES, UNIONS, THERMOMETERS, GAUGES, OR OTHER EQUIPMENT REQUIRING FREQUENT READING, REPAIRS, ADJUSTMENTS, INSPECTION, REMOVAL OR REPLACEMENT SO AS TO BE ACCESSIBLE WITH REFERENCE TO THE FINISHED BUILDING.
9. ROUGH-IN ALL WATER & WASTE PIPING TO SPECIAL EQUIPMENT IN ACCORDANCE WITH MANUFACTURERS' SHOP DRAWINGS. VALVE ALL SUPPLIES AND MAKE FINAL CONNECTIONS.
10. INSTALL APPROVED DIELECTRIC ISOLATORS AT ALL CONNECTIONS OF DISSIMILAR METALS.
11. WHERE POSSIBLE, THE VENTS TOGETHER SO THAT A MINIMUM NUMBER TERMINATE THROUGH ROOF.
12. CONTRACTOR SHALL NOT CUT HOLES IN STRUCTURAL MEMBERS WITHOUT FIRST SECURING WRITTEN APPROVAL FROM THE ARCHITECT.

WATER CALCULATION table showing fixture units (28 FU / 19 GPM), pipe lengths, and water pipe sizing criteria (Street Pressure 65.00 PSI, Backflow Preventer Loss 12.00 PSI, etc.).

BRANCH PIPE SIZING CHART FOR 8.4 PSI LOSS table with columns: PIPE SIZE, G.P.M., F.U.(TANK). Shows sizes for 1/2", 3/4", 1", and 1-1/4" pipes.

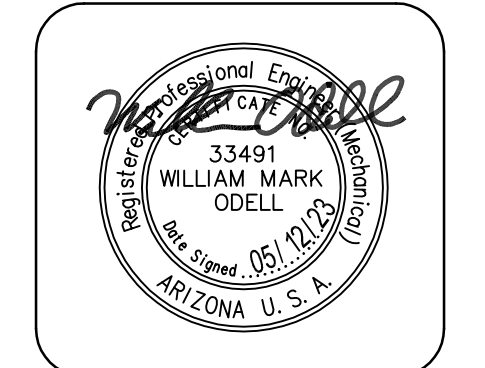
FIXTURE UNIT CALCULATIONS table with columns: DESCRIPTION, QTY, F.U. EACH (WASTE, WATER), TOTAL F.U. (WASTE, WATER). Includes entries for Water Closet, Lavatory, Mop Sink, and Clotheswasher Box.

ELECTRIC WATER HEATER SCHEDULE table with columns: MARK, MANUFAC., MODEL, STORAGE CAPACITY IN GALS., KW INPUT, VOLTAGE/PHASE, GALLON PER HR. REC. AT 100° F T.R., WATER OUTLET TEMP °F, REMARKS. Includes entry for WH-1 (RHEEM, EGSP30).

FIXTURE CONNECTION SCHEDULE table with columns: MARK, DESCRIPTION, TRAP SIZE, WASTE, VENT, COLD WATER, HOT WATER, REMARKS. Includes entries for WC-1, L-1, MS-1, and CWB.

REVISIONS table with columns: REVISIONS, BY.

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DRAWING: Plumbing Details & Schedules
PROJECT: Commercial Building on Side Rd. 5416 Side Rd. Prescott, AZ 86301
APN: 103-01-038

Table with columns: DRAWN BY, CHECKED BY, DATE (March 24th, 2023), JOB NO. (777), SHEET.

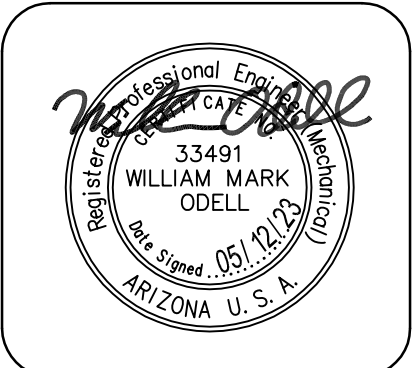
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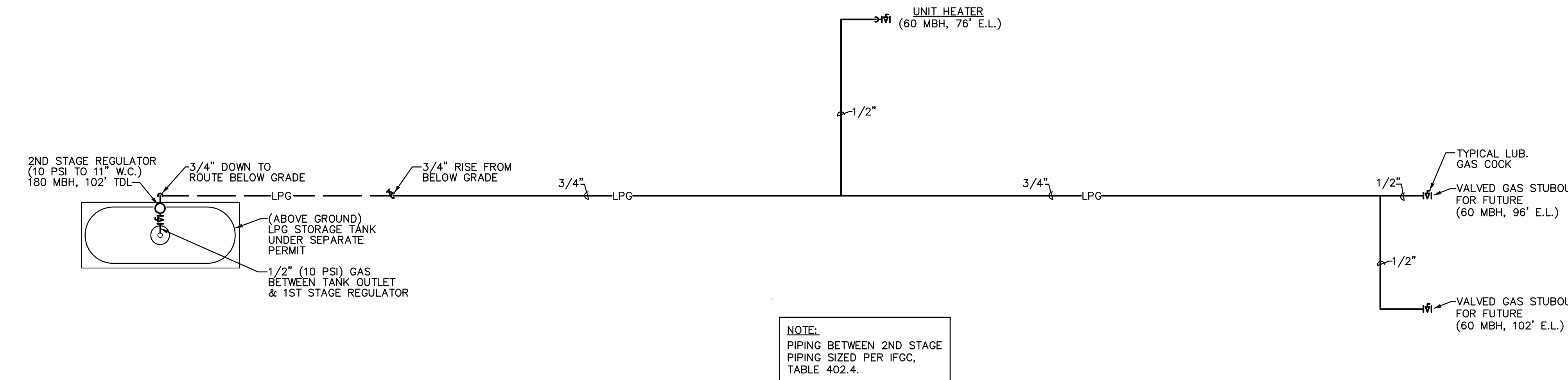
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REVISIONS	BY

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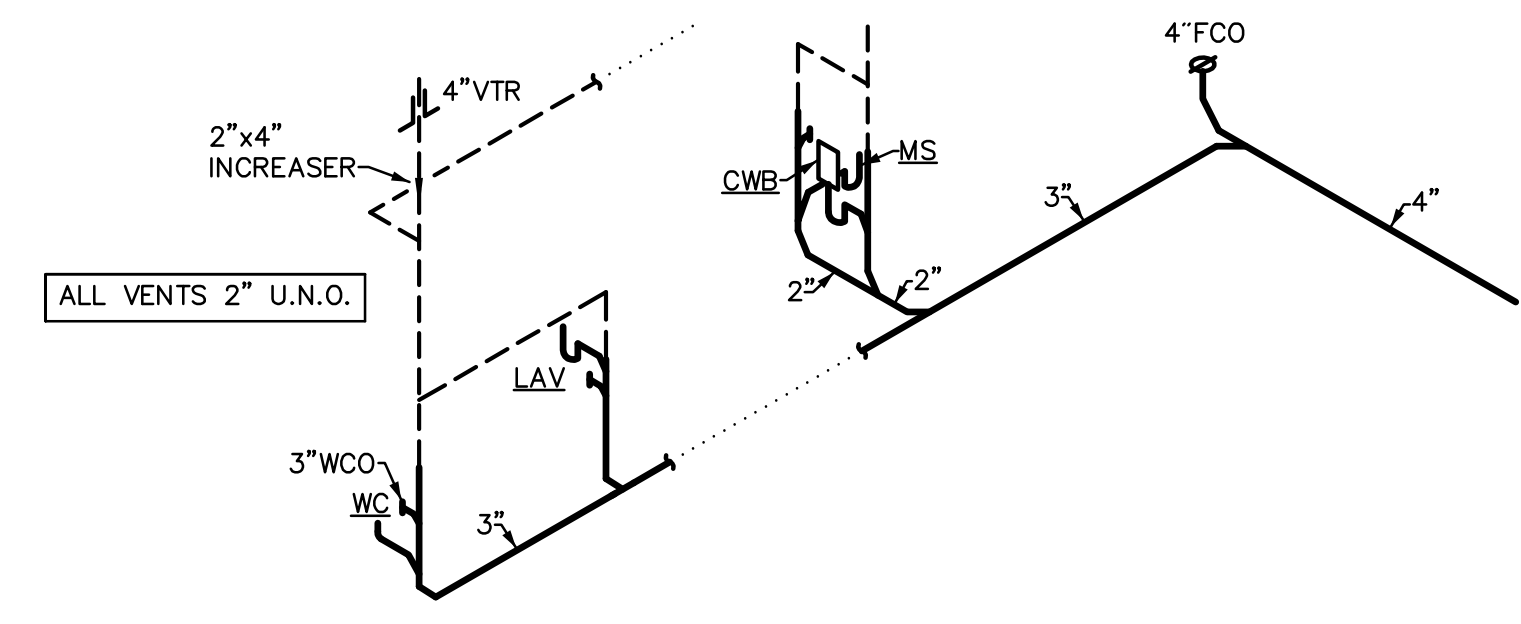
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NOTE:  
 PIPING BETWEEN 2ND STAGE  
 PIPING SIZED PER IFGC,  
 TABLE 402.4.

**GAS PIPING DIAGRAM**  
 NTS

- GAS PIPING NOTES:**
1. MINIMUM DEPTH OF GAS PIPING TO BE 18" BELOW GRADE.
  2. GAS PIPING SHALL NOT BE INSTALLED IN OR ON THE GROUND UNDER ANY BUILDING.
  3. GAS PIPING SHALL NOT RUN IN HOLLOW CORE OF BLOCK.
  4. PROVIDE SHUT-OFF COCK, UNION AND 6" LONG DIRT LEG WITH CAP AT EACH GAS LINE DROP TO APPLIANCE.
  5. ALL GAS USING EQUIPMENT TO BE LIQUID PROPANE FUEL.
  6. DO NOT USE FLEXIBLE PIPE CONNECTIONS TO EQUIPMENT.
  7. ALL GAS PIPING UNDER ASPHALT OR CONCRETE PAVING ADJOINING BUILDING MUST BE SLEEVED IN GAS TIGHT PIPE (SCHEDULE 40 PVC PIPE). SLEEVE SIZE SHALL (MINIMUM) 2 PIPE SIZES LARGER THAN THE GAS PIPE.
  8. ALL GAS PIPING, MATERIALS, VALVES, FITTINGS, INSTALLATION AND TESTING SHALL COMPLY WITH CHAP. 4, INTERNATIONAL FUEL GAS CODE.
  9. VERIFY ALL GAS BTU/H INPUTS WITH ACTUAL BTU/H INPUT OF APPLIANCE SUPPLIED.
  10. ALL GAS LINES INSTALLED THROUGH CMU WALLS, ETC., SHALL BE SLEEVED WITH STEEL PIPE A MINIMUM OF (2) (TWO) PIPE SIZES LARGER THAN THE GAS PIPE.



**WASTE AND VENT SCHEMATIC**  
 NTS

**DRAWING:** Plumbing Schematics  
**PROJECT:** Commercial Building on Side Rd.  
 5416 Side Rd.  
 Prescott, AZ 86301  
**APN:** 103-01-038

DRAWN BY
CHECKED BY
DATE March 24th, 2023
JOB NO. 777
SHEET

**P3.0**



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**ELECTRICAL SYMBOLS**

NOTE: NOT ALL SYMBOLS ARE USED ON THIS PROJECT

- FLUORESCENT FIXTURE, WITH FIXTURE DESIGNATED BY LETTER. SMALL LETTER INDICATES SWITCH LEG
- NL NIGHT LIGHT- NOT SWITCHED
- FLUORESCENT STRIP FIXTURE.
- CEILING OR WALLMOUNTED FIXTURE.
- PORCELAIN PULL CHAIN FIXTURE
- JUNCTION BOX
- JUNCTION BOX WITH FLEX CONNECTION.
- SINGLE FACE EXIT SIGN- NOT SWITCHED
- DOUBLE FACED EXIT SIGN- NOT SWITCHED.
- TWO HEAD EMERGENCY LIGHT WITH BATTERY.
- POLE-MOUNTED FIXTURE - No. OF LUMINAIRES AS SHOWN & SCHEDULED
- S SINGLE POLE SWITCH, + 48" A.F.F. (20A-120/277V)
- S<sub>3</sub> THREE WAY SWITCH, + 48" A.F.F. (20A-120/277V)
- S<sub>4</sub> 4-WAY SWITCH +48" AFF (20A-120/277V)
- S<sub>P</sub> SWITCH AND PILOT LIGHT (20A-120-/277V)
- S<sub>K</sub> SINGLE POLE SWITCH, KEY OPERATED (20A)
- DIMMER CONTROL, + 48" A.F.F. EQUAL TO LUTRON "NOVA" SERIES, SIZED TO MATCH LOAD SERVED
- VARIABLE SPEED FAN CONTROL, +48" A.F.F.
- DUPLEX RECEPTACLE, + 18" A.F.F. (20A)
- DUPLEX RECEPTACLE ABOVE COUNTER, VERIFY HEIGHT. (20A)
- FOURPLEX RECEPTACLE, + 18" A.F.F. (20A)
- SPECIAL RECEPTACLE - SIZE & TYPE AS NOTED
- POWER FLUSH FLOOR OUTLET
- TELEPHONE OUTLET PLASTER RING AT + 18" A.F.F. HUBBELL #12 COVERPLATE. 3/4" C. TO CEILING SPACE UNLESS SHOWN WITH HOMERUNS.
- DATA SYSTEM OUTLET, 4" SQUARE BOX AND COVERPLATE, 3/4" C. TO CEILING SPACE UNLESS SHOWN WITH HOMERUN, + 18" A.F.F.
- TELE/DATA COMBO OUTLET, 4" SQUARE BOX AND COVERPLATE, 3/4" C. TO CEILING SPACE UNLESS SHOWN WITH HOMERUN, + 18" A.F.F.
- CABLE TELEVISION (CATV) OUTLET PLASTER RING AT + 18" A.F.F. U.N.O. HUBBELL COVERPLATE. 3/4" C. TO CEILING SPACE UNLESS SHOWN WITH HOMERUNS.
- TELEPHONE SYSTEM CONDUIT HOMERUN WITH NYLON PULLWIRE (1" MIN UNO)
- CLOSED CIRCUIT TV (CCTV) OUTLET SAME AS CATV OUTLET
- DOOR CHIME
- REMOTE CONTROL STATION +48" AFF
- DISCONNECT SWITCH, FUSE PER EQUIPMENT MANUFACTURERS RECOMMENDATION. OUTSIDE NEMA 3R - N.F. = NON-FUSED.
- COMBINATION STARTER AND FUSIBLE DISCONNECT SWITCH SIZE AS NOTED
- EQUIPMENT TERMINATION CONNECTION POINT VERIFY EXACT LOCATION LOAD AND VOLTAGE AS NOTED
- MOTOR
- SM THERMAL PROTECTED SWITCH
- MOTOR STARTER - SHADING INDICATES F.B.O.
- DISTRIBUTION PANELBOARD.
- BRANCH CIRCUIT PANELBOARD.
- CONDUIT BELOW FLOOR OR UNDERGROUND
- CONDUIT IN WALL OR ABOVE CEILING
- HOMERUN TO PANEL, NEUTRAL AND PHASE WIRING DESIGNATION (SEE GROUNDING NOTE)
- CONDUIT TURNING UP
- CONDUIT TURNING DOWN
- CONDUIT STUB-OUT, MARK AND CAP AS DIRECTED
- GROUND WIRE (SIZE AS NOTED) EXTENDED AND CONNECTED TO APP'D GROUND

**ABBREVIATIONS**

- A.F.F. ABOVE FINISHED FLOOR ( ⌀ OF OUTLET )
- A.F.G. ABOVE FINISHED GRADE ( ⌀ OF OUTLET )
- E.C. EMPTY CONDUIT
- G.F.I. GROUND FAULT INTERRUPTER
- WP WEATHERPROOF
- UNO UNLESS OTHERWISE NOTED
- NL NIGHT LIGHT
- TYP TYPICAL
- EDF ELECTRIC DRINKING FOUNTAIN
- TMB TELEPHONE MOUNTING BOARD

**OUTLET MOUNTING HEIGHTS PER AMERICAN DISABILITY ACT**

ELECTRICAL CONTRACTOR SHALL COMPLY WITH THE 2010 ADA SAD REQUIREMENTS FOR ALL SWITCHES, RECEPTACLES, TELE/DATA AND SIDE REACH CONTROL SWITCHES, ALL WALL CONTROLS, SWITCHES AND THERMOSTATS TO BE MOUNTED WITH TOP OF J-BOX AT 48" A.F.F. ALL ABOVE COUNTER CONTROLS, SWITCHES & OUTLETS TO BE MOUNTED WITH HORIZONTAL ORIENTATION WITH TOP OF J-BOX AT 44" A.F.F.. ALL WALL OUTLETS TO BE MOUNTED AT 15" A.F.F. TO BOTTOM OF J-BOX.

**SPECIAL REQUIREMENTS PER: THE FAIR HOUSING ACT.**

ALL RECEPTACLES AT RESTROOM LAVATORIES TO BE GFCI TYPE. ALL WALL CONTROLS, SWITCHES AND THERMOSTATS TO BE MOUNTED WITH TOP OF J-BOX AT 48" A.F.F. ALL ABOVE COUNTER CONTROLS, SWITCHES & OUTLETS TO BE MOUNTED WITH HORIZONTAL ORIENTATION WITH TOP OF J-BOX AT 44" A.F.F. ALL WALL OUTLETS TO BE MOUNTED AT 15" A.F.F. TO BOTTOM OF J-BOX.

**SPECIFICATIONS**

1. PRIOR TO SUBMITTING BID, SUBCONTRACTORS SHALL EXAMINE ALL GENERAL CONSTRUCTION DRAWINGS AND VISIT THE CONSTRUCTION SITE TO BECOME FAMILIAR WITH EXISTING CONDITIONS UNDER WHICH HE WILL HAVE TO OPERATE AND WHICH IN ANY WAY AFFECTS THE WORK UNDER HIS CONTRACT. NO SUBSEQUENT ALLOWANCE WILL BE MADE IN BEHALF OF THE CONTRACTOR FOR ANY ERROR OR NEGLIGENCE ON HIS PART.
2. THE SUBCONTRACTOR SHALL BE HELD FULLY RESPONSIBLE FOR THE PROPER RESTORATION OF ALL EXISTING SURFACES REQUIRING PATCHING, PLASTERING, PAINTING AND /OR OTHER REPAIR DUE TO THE INSTALLATION OF ELECTRICAL WORK UNDER THE TERMS OF THE CONTRACT. CLOSE ALL OPENINGS, REPAIR ALL SURFACES, ETC., AS REQUIRED.
3. SEE ARCHITECTURAL DRAWINGS FOR ALL DIMENSIONS, ELEVATIONS AND BUILDING DETAILS. VERIFY LOCATION OF ALL OUTLETS, SWITCHES, AND WALL MOUNTED LIGHTING FIXTURES WITH ARCHITECTURAL DRAWINGS AND ACTUAL CONDITIONS. VERIFY ALL CEILING TYPES WITH ARCHITECTURAL DRAWINGS BEFORE ORDERING FIXTURES.
4. PRIOR TO ROUGH-IN AND FINAL CONNECTION, VERIFY ELECTRICAL CHARACTERISTICS AND EXACT LOCATION OF EQUIPMENT.
5. GROUT AND SEAL ALL CONDUIT PENETRATIONS OF WALLS AND FLOOR SLABS TO PRESERVE FIRE RATING AND WATERTIGHT INTEGRITY.
6. BRANCH CIRCUIT WRING SHALL BE THHN/THWN INSULATION. PANEL FEEDERS SHALL BE TYPE XHHW. ALL WIRE SHALL BE COPPER. MINIMUM WIRE SIZE SHALL BE #12.
7. ALL WIRING TO BE INSTALLED IN RACEWAYS. TYPE OF RACEWAY SHALL BE AS REQUIRED BY CODE. MINIMUM CONDUIT SIZE SHALL BE 1/2".
8. PROVIDE CODE SIZED BOND WIRE IN ALL EMT, FLEXIBLE CONDUIT
9. ALL ELECTRICAL EQUIPMENT SHALL BE NEW , U.L. APPROVED AND COMMERCIAL GRADE.
10. WIRE RATED FOR 150° CENTIGRADE SHALL BE USED FOR ALL INCANDESCENT LIGHTING FIXTURES.
11. ALL ELECTRICAL WORK SHALL BE INSTALLED IN ACCORDANCE WITH THE LATEST NATIONAL CODE, (N.E.C.), AND ALL APPLICABLE FEDERAL, STATE AND LOCAL CODES.
12. PROVIDE TYPEWRITTEN DESCRIPTIVE PANEL DIRECTORIES

**NOTE:**  
1.) ALL SUB-PANELS, SERVICE EQUIPMENT, AND EQUIPMENT DISCONNECTS SHALL BE PROVIDED WITH THE WORKING CLEARANCES REQUIRED BY THE LATEST ADOPTED NEC.

**SITE RELATED WORK**

PRIOR TO COMMENSING WORK AND/OR SUBMITTING BASE BID, THE CONTRACTOR SHALL VISIT THE SITE AND SATISFY HIMSELF TO EXISTING WORK RELATED CONDITIONS WITH REGARDS TO THE FOLLOWING:

1. TRENCH AND BACKFILL FOR CONDUITS PER UTILITY CO. REQUIREMENTS. (FIELD VERIFY)
2. TRANSFORMER MOUNTING PAD PER UTILITY CO. REQUIREMENTS.
3. PROVIDE SECONDARY AND/OR PRIMARY CONDUITS. (SEE ONE LINE DIAGRAM).
4. SERVICE ENTRANCE SECTION (S.E.S.). VERIFY PROPOSED EQUIPMENT WILL FIT THE SPACE ALLOTTED PRIOR TO ORDERING AND/OR CONSTRUCTION.
5. P.V.C. TELEPHONE CONDUIT WITH PULL WIRE AND RIGID FACTORY STEEL BENDS PER TELEPHONE CO. REQUIREMENTS. (SIZE AS NOTED OR REQUIRED BY UTILITY VERIFY PRIOR TO INSTALLATION).
6. THE ELECTRICAL CONTRACTOR IS RESPONSIBLE FOR COORDINATION AND COMPLIANCE WITH ALL UTILITY COMPANIES REQUIREMENTS, INCLUDING BUT NOT LIMITED TO ANY AND ALL ADDITIONAL COSTS FOR MATERIAL AND LABOR FOR WORK WHETHER SHOWN ON THE PLANS OR NOT. ACTUAL ROUTING, CONDUIT, TRENCH AND PAD REQUIREMENTS SHALL BE AS SPECIFIED BY UTILITY COMPANIES. VERIFY REQUIREMENTS WITH UTILITIES PRIOR TO INSTALLATION.
7. WHERE APPLICABLE, PROVIDE EQUIPMENT GROUNDING (BOND) CONDUCTOR FOR METALLIC PROCESSING AND FIRE SPRINKLER PIPING PER NEC 250-80 AND SIZED PER NEC 250-95 TABLE.

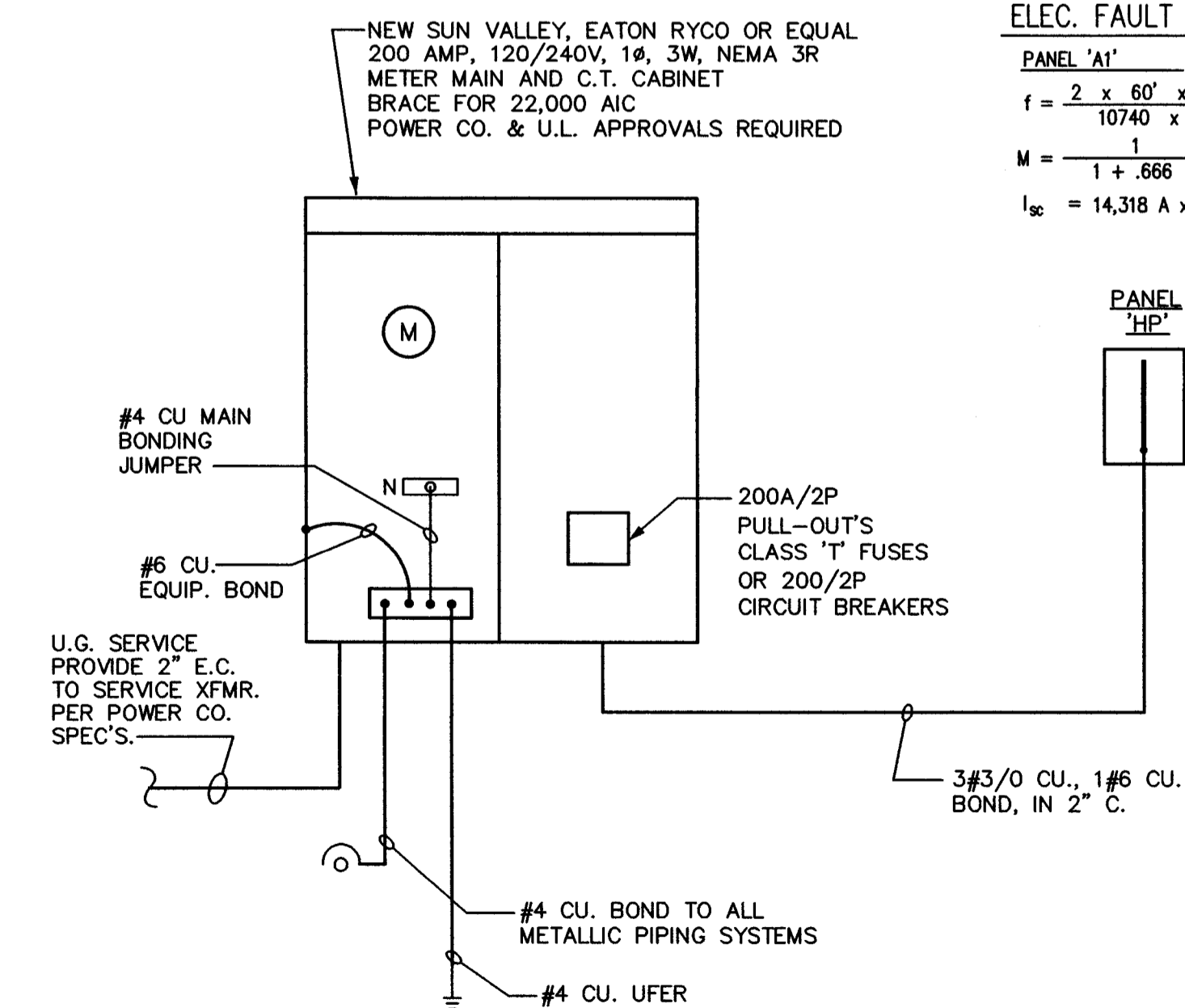
**ONE LINE GENERAL NOTES:**

1. SYSTEM SHOWN IS A TWO TIER SERIES RATED SYSTEM 22/10K. MANUFACTURER SHALL PROVIDE A UL LISTED SYSTEM TO MATCH THIS RATING.
2. MOTOR SHORT CIRCUIT CONTRIBUTION IS LESS THAN 1% OF SYSTEM SHORT CIRCUIT AMPS.
3. NO DESIGN CHANGES MAY BE MADE TO THE SYSTEM WITHOUT THE PRIOR APPROVAL OF THE DESIGN ELECTRICAL ENGINEER AND THE ELECTRICAL INSPECTOR

**ONE LINE KEYNOTES:**

- ① PROVIDE A PERMANENT LABEL READING "THIS CIRCUIT BREAKER IS PART OF A SERIES RATED SYSTEM WITH DOWNSTREAM PANELS 22/10K. 22,000 AMPS AVAILABLE. IDENTIFIED REPLACEMENT COMPONENT REQUIRED"
- ② PROVIDE A PERMANENT LABEL READING "CAUTION- SERIES RATED SYSTEM 22/10, IDENTIFIED REPLACEMENT COMPONENTS REQUIRED"

MAXIMUM AVAILABLE FAULT CURRENT = 14,318 AMPS SYMM (VERIFY WITH UTILITY COMPANY PRIOR TO ORDERING EQUIPMENT)



**ELEC. FAULT CURRENT CALCULATIONS**

PANEL 'A1'

$$f = \frac{2 \times 60' \times 14,318 \text{ A}}{10740 \times 240\text{V}} = .666$$

$$M = \frac{1}{1 + .666} = .600$$

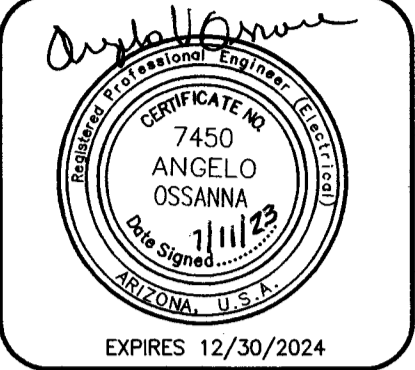
$$I_{sc} = 14,318 \text{ A} \times .600 = 8,590 \text{ AMPS}$$

**ELEC. ONE-LINE DIAGRAM - 'SES'**

N.T.S.

**ELECTRICAL DESIGN & CADD SERVICES INC.**  
1600 LAMB LANE  
PRESCOTT, AZ. 86305  
PH: (928) 776-4900  
CELL: (928) 420-1200  
E-MAIL: archie@elecdesign.net

REVISIONS	BY



**W. Alan Kenson & Associates, P.C.**  
ARCHITECTURE & PLANNING  
P.O. Box 11593  
Prescott, AZ 86304  
P 928-443-5812  
F 928-443-5815  
email: waka@cableone.net  
www.kenson-associates.com

**DRAWING:** Electrical Symbols, Specifications, One-Line Diagram & Notes  
**PROJECT:** Commercial Building on Side Rd. 5416 Slide Rd. Prescott, AZ 86301  
**APN:** 103-01-038

DRAWN BY
CHECKED BY
DATE March 24th, 2023
JOB NO. 777
SHEET

**E1.0**

**GENERAL POWER NOTES:**

- ELECTRICAL CONTRACTOR SHALL VERIFY MOUNTING HEIGHT OR LOCATION OF ANY ELECTRICAL EQUIPMENT AND OR DEVICES HE IS TO VERIFY ITEMS WITH ELECTRICAL ENGINEER, ARCHITECT OR OWNER PRIOR TO ROUGH-IN.
- ALL RECEPTACLES AT RESTROOM LAVATORIES TO BE GFCI TYPE INSTALLED AT +42" A.F.F.
- ALL RECEPTACLES IN AREAS WITHIN 6'-0" OF A SINK SHALL BE GFCI TYPE PER NEC
- EXTERIOR & ROOF MOUNTED MAINT. RECEPTS. SHALL BE WP, GFCI TYPE PER NEC
- VERIFY THE EXACT LOCATIONS OF ALL TELEPHONE OUTLETS, DATA OUTLETS AND SPECIAL SYSTEMS OUTLETS WITH THE ARCHITECT/OWNER PRIOR TO ROUGH-IN.
- ELECTRICAL CONTRACTOR SHALL VERIFY MECHANICAL EQUIPMENT REQUIREMENTS BREAKER, DISC. & WIRE SIZE WITH MANUFACTURER PRIOR TO ROUGH-IN.
- ELECTRICAL CONTRACTOR IS APPROVED TO USE SURFACE MOUNTED RECEPTACLES & CONDUIT IN STORAGE AREA VERIFY PRIOR TO ROUGH-IN.
- ALL RECEPTACLES IN WAREHOUSE SUITE A, B & C TO BE INSTALLED AT +48" A.F.F. GFCI TYPE.

**GENERAL LIGHTING NOTES:**

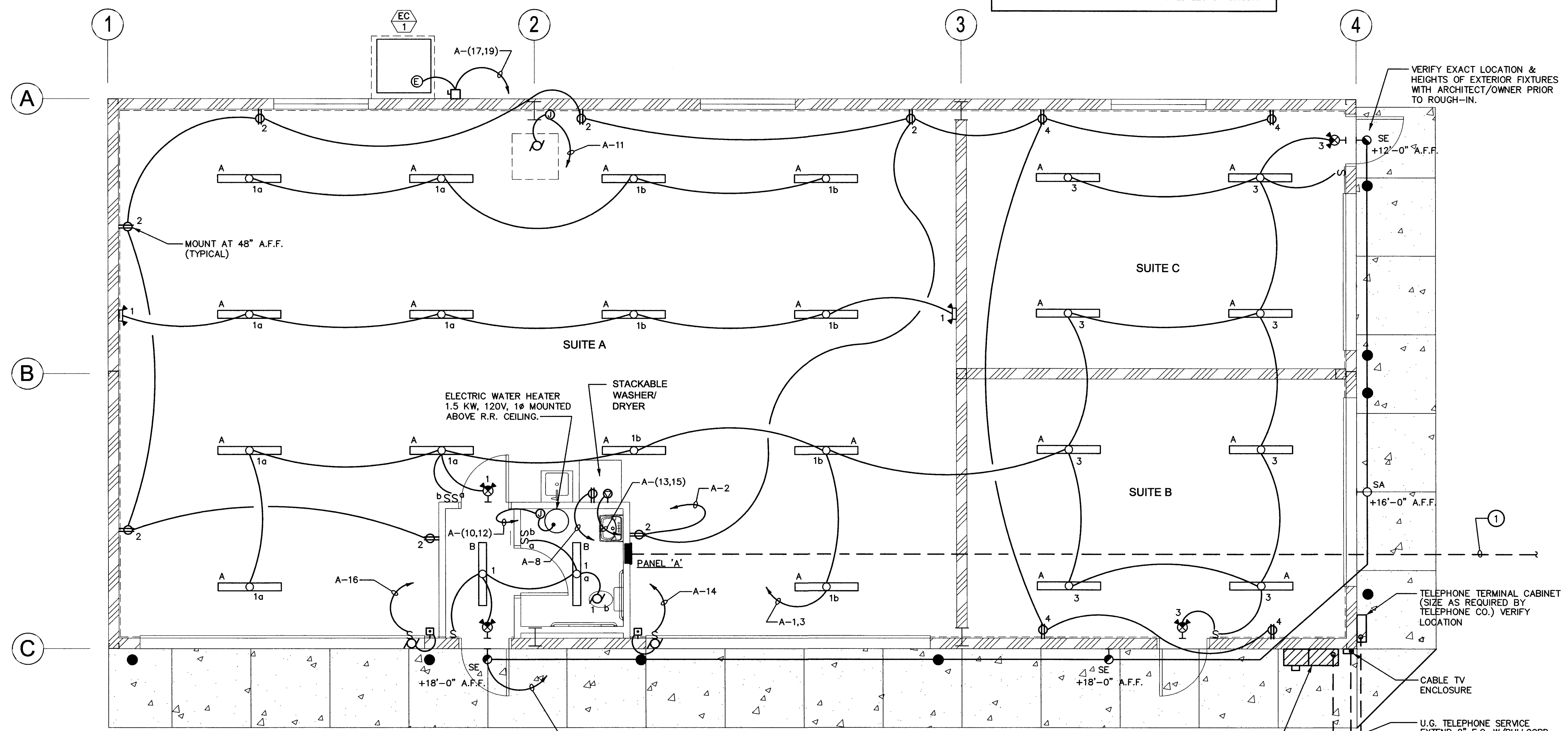
- IF ELECTRICAL CONTRACTOR IS NOT CERTAIN OF MOUNTING HEIGHT OR LOCATION OF ANY LIGHTING FIXTURES OR SWITCHES HE IS TO VERIFY ITEMS WITH ELECTRICAL ENG., ARCHITECT OR OWNER PRIOR TO ROUGH-IN.
- NIGHT LIGHTS (NL), EMERGENCY & EXIT LIGHT FIXTURES SHALL BE CONNECTED TO UNSWITCHED LEG OF CIRCUIT.

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 1600 LAMB LANE  
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PANELBOARD		A		SCHEDULE	
MAINS: 200A MLO		LOAD-VA		LOCATION: SEE PLAN	
VOLTAGE: 120/240V, 1Ø, 3W				MOUNTING: SURFACE/FLUSH	
TYPE: EQ, D, GE, EATON OR EQUAL				MIN. A.I.C.: 22/10K SERIES RATED	
CIRCUIT DESCRIPTION	BKR. NO.	ØA	ØC	CIRCUIT DESCRIPTION	BKR. NO.
LIGHTS	20	1	875	RECEPTACLES - SUITE A	20
LIGHTS	1	3	720	RECEPTACLES - SUITE A	1
LIGHTS - EXTERIOR	5	400	500	RECEPTACLES - SUITE B & C	4
SPARE	7	540	540	RECEPTACLE CLOTHS WASHER	8
SPARE	9	800	800	ELECTRIC WATER HEATER	10
UNIT HEATER	11	2250	200	4.5 KW, 240V, 1Ø	12
DRYER	30	13	3000	ELECTRIC GARAGE DOOR OPENER	14
			1000	ELECTRIC GARAGE DOOR OPENER	16
EVAP COOLER	20	17	1200	FUTURE GATE	18
			200	SPACE	20
SPACE	21		1200	SPACE	22
				SPACE	23
				SPACE	24
				SPACE	25
				SPACE	26
				SPACE	27
				SPACE	28
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				SPACE	34
				SPACE	35
				SPACE	36
				SPACE	37
				SPACE	38
				SPACE	39
				SPACE	40
				SPACE	41
				SPACE	42
TOTAL LOAD PER PHASE:		10985	10190	HW 10985 / 120V = 91.5 AMPS	

**Lighting & Power Floor Plan**  
 Scale: 1/4"=1'-0"  
 North

Symbol	Label	Manufacturer	Catalog Number	Description	Lamp	Number Lamps	Lumens per Lamp	Lumen Multiplier	LLF	Wattage
—	A	Lithonia Lighting	CLX L48 7000LM SEF FDL MVOLT GZ10 40K (80CRI) WH	CLX LED Linear 48" 7,000 lumens, Standard Efficiency, Less Louver, Flat diffuse lens, General distribution, MVOLT, 0-10V dimming, 4000 CCT, 80 CRI	4000K LED	1	6810	1	0.91	49.05
—	B	Lithonia Lighting	CLX L48 3000LM SEF FDL MVOLT GZ10 40K (80CRI) WH	CLX LED Linear 48" 3,000 lumens, Standard Efficiency, Less Louver, Flat diffuse lens, General distribution, MVOLT, 0-10V dimming, 4000 CCT, 80 CRI	4000K LED	1	2813	1	1	20.32
○	SA	Lithonia Lighting	WEDGE1 LED P1 30K 80CRI VW MVOLT SRM (BRONZE)	WEDGE1 LED WITH P1 - PERFORMANCE PACKAGE, 3000K, 80CRI, VISUAL COMFORT WIDE OPTIC	3000K LED	1	1163	1	0.91	18.0
○	SE	Lithonia Lighting	WEDGE1 LED P1 30K 80CRI VW MVOLT SRM E4WH (BRONZE)	WEDGE1 LED WITH P1 - PERFORMANCE PACKAGE, 3000K, 80CRI, WITH EMERGENCY BATTERY-BACKUP	3000K LED	1	1163	1	0.91	18.0
⚡		Lithonia Lighting	LHQM LED R HO	QUANTUM LED EMERGENCY COMBO (ONE HEAD ONLY)	TWO 1.5-WATT LED ASSEMBLY	1	Absolute	1	0	3
⚡		Lithonia Lighting	ELMLT W LP06V5 LTP	ELMLT W LP06V5 LTP	TWO 5.4-WATT LED ASSEMBLY	1	523	1	0	11

**KEY NOTE:**  
 1. ELECTRICAL CONTRACTOR SHALL PROVIDE & INSTALL 1/2" CONDUIT FOR FUTURE GATE VERIFY EXACT STUB-UP LOCATION AND REQUIREMENTS WITH OWNER PRIOR TO ROUGH-IN.

**DRAWING:** Lighting & Power Floor Plan  
**PROJECT:** Commercial Building on Side Rd. 5416 Side Rd. Prescott, AZ 86301  
**APN:** 103-01-038

**DRAWN BY:**  
**CHECKED BY:**  
**DATE:** March 24th, 2023  
**JOB NO.:** 777  
**SHEET:**

**E1.1**

**BUILDER/CONTRACTOR RESPONSIBILITIES**

**Drawing Validity** – These drawings, supporting structural calculations and design certification are based on the order documents as of the date of these drawings. These documents describe the material supplied by the manufacturer as of the date of these drawings. Any changes to the order documents after the date on these drawings may void these drawings, supporting structural calculations and design certification. The Builder/Contractor is responsible for notifying the building authority of all changes to the order documents which result in changes to the drawings, supporting structural calculations and design certification.

**Builder Acceptance of Drawings** – Approval of the manufacturer’s drawings and design data affirms that the manufacturer has correctly interpreted and applied the requirements of the order documents and constitutes Builder/Contractor acceptance of the manufacturer’s interpretations of the order documents and standard product specifications, including its design, fabrication and quality criteria standards and tolerances. (AISC code of standard practice APR 10 Section 4.4.1)

**Code Official Approval** – It is the responsibility of the Builder/Contractor to ensure that all project plans and specifications comply with the applicable requirements of any governing building authority. The Builder/Contractor is responsible for securing all required approvals and permits from the appropriate agency as required.

**Builder is responsible for State, Federal and OSHA safety compliance** – The Builder/Contractor is responsible for applying and observing all pertinent safety rules and regulations and OSHA standards as applicable.

**Building Erection** – The Builder/Contractor is responsible for all erection of the steel and associated work in compliance with the Metal Building Manufacturers drawings. Temporary supports, such as temporary guys, braces, false work or other elements required for erection will be determined, furnished and installed by the erector. (AISC Code of Standard Practice APR 10 Section 7.10.3)

**Discrepancies** – Where discrepancies exist between the Metal Building plans and plans for other trades, the Metal Building plans will govern. (AISC Code of Standard Practice APR 10 Section 3.3)

**Materials by Others** – All interface and compatibility of any materials not furnished by the manufacturer are the responsibility of and to be coordinated by the Builder/Contractor or A/E firm. Unless specific design criteria concerning any interface between materials if furnished as a part of the order documents, the manufacturers assumptions will govern.

**Modification of the Metal Building from Plans** – The Metal Building supplied by the manufacturer has been designed according to the Building Code and specifications and the loads shown on this drawing. Modification of the building configuration, such as removing wall panels or braces, from that shown on these plans could affect the structural integrity of the building. The Metal Building Manufacturer or a Licensed Structural Engineer should be consulted prior to making any changes to the building configuration shown on these drawings. The Metal Building Manufacturer will assume no responsibility for any loads applied to the building not indicated on these drawings.

**Foundation Design** – The Metal Building Manufacturer is not responsible for the design, materials and workmanship of the foundation. Anchor rod plans prepared by the manufacturer are intended to show only location, diameter and projection of the anchor rods required to attach the Metal Building System to the foundation. It is the responsibility of the end customer to ensure that adequate provisions are made for specifying rod embedment, bearing values, tie rods and or other associated items embedded in the concrete foundation, as well as foundation design for the loads imposed by the Metal Building System, other imposed loads, and the bearing capacity of the soil and other conditions of the building site. (MBMA MBMS Chapter 4 Section 3.2.2 and Section A3)

**Shimming** – In accordance with Section 6.10 of Chapter 4, Common Industry Practices in the Metal Building Systems Manual, shimming is a normal part of erection and is not subject to claim.



Download panel installation manuals from:  
www.cornerstonebuildingbrands.com/installationmanuals/

Descargue los manuales de instalación del panel desde:  
www.cornerstonebuildingbrands.com/installationmanuals/

**1/2"Ø A325 BOLT GRIP TABLE (UNLESS NOTED)**

GRIP	LENGTH	BOLT LENGTH	NOTE:
0 TO 9/16"	1 1/4" F.T.	<p>NOTE: FULL THREAD ENGAGEMENT IS DEEMED TO HAVE BEEN MET WHEN THE END OF THE BOLT IS FLUSH WITH THE FACE OF THE NUT.</p> <p>WASHER REQUIRED ONLY WHEN SPECIFIED. WASHER MAY BE LOCATED UNDER HEAD OF BOLT, UNDER NUT, OR AT BOTH AT LOCATIONS NOTED ON ERECTION DRAWINGS. ADD 5/32" FOR EACH WASHER TO MATERIAL THICKNESS TO DETERMINE GRIP.</p>	
Over 9/16" TO 1 1/16"	1 3/4" F.T.		
Over 1 1/16" TO 1 5/16"	2"		
Over 1 5/16" TO 1 9/16"	2 1/4"		
Over 1 9/16" TO 1 13/16"	2 1/2"		
Over 1 13/16" TO 2 1/16"	2 3/4"		
LOCATIONS OF BOLTS LONGER THAN 2 3/4" NOTED ON ERECTION DRAWINGS			
F.T. DENOTES FULLY THREADED			

**PROJECT NOTES**

Material properties of steel bar, plate, and sheet used in the fabrication of built-up structural framing members conform to ASTM A529, ASTM A572, or ASTM A1011 with 55 ksi min. yield, except flanges wider than 12" and thicker than 3/8", all flanges thicker than 1", and all webs thicker than 3/8" are 50 ksi min. yield. Rod X-bracing conforms to ASTM A529 or ASTM A572 with 50 ksi min. yield. Cable X-bracing conforms to ASTM A475 7 Strand Extra High-Strength grade. Hot rolled structural shapes conform to ASTM A992, ASTM A529, or ASTM A572 with 50 ksi min. yield. Hot rolled angles, other than flange braces, conform to ASTM A36 minimum. Round and rectangular HSS conforms to ASTM A500 Grade B. Cold-formed steel secondary framing Members conform to ASTM A1011 or ASTM A653 Grade 55 with 55 ksi min. yield.

The manufacturer does not assume any responsibility for the erection nor field supervision of the structure and or any special inspections that may be required by the local building authority during erection (including inspection of the high strength bolts or field welds) as required during erection. The coordination and the costs associated for setting up and Special Inspections are the responsibility of the Erector, Owner, Architect, or Engineer of Record.

Design is based upon the more severe loading of either the roof snow load or the roof live load.

Loads, as noted, are given within order documents and are applied in general accordance with the applicable provisions of the model code and/or specification indicated. Neither the manufacturer nor the certifying engineer declares or attests that the loads as designated are proper for the local provisions that may apply or for site specific parameters. The manufacturer’s Engineer’s certification is limited to design loads supplied by an Architect and/or engineer of record for the overall construction project.

This project is designed using manufacture’s standard serviceability standards. Generally this means that all stresses and deflections are within typical performance limits for normal occupancy and standard metal building products. If special requirements for deflections and vibrations must be adhered to, then they must be clearly stated in the contract documents.

This metal building system is designed as enclosed. All exterior components (i.e. doors, windows, vents, etc.) must be designed to withstand the specified wind loading for the design of components and cladding in accordance with the specified building code. Doors are to be closed when a maximum of 50% of design wind velocity is reached.

Unless otherwise noted, special inspection of fabricated items is not required. Per IBC section 1704.2.5.1, The fabricator is approved to perform such work without special inspection through maintenance of IAS AC 472 certification MB-136

The design collateral load has been uniformly applied to the design of the building. Hanging loads are to be attached to the purlin web. This may not be appropriate for heavily concentrated loads. Any attached load in excess of 150 pounds shall be accounted for by special design performed by a licensed engineer using concentrated loads and may require separate support members within the roof system.

The metal building manufacturer has not designed the structure for snow accumulation loads at the ground level which may impose snow loads on the wall framing provided by the manufacturer.

Using 7x7 gutter with 4 x 5 downspouts, the roof drainage system has been designed using the method outlined in the MBMA Metal Building Systems Manual. Downspout locations have not been located on these drawings. The downspouts are to be placed on the building sidewalls at a spacing not to exceed 50 feet with the first downspout from both ends of the gutter run within 25 feet of the end. Downspout spacing that does not exceed the maximum spacing will be in compliance with the building code. The gutter and downspout system as provided by the manufacturer is designed to accommodate 4 in/hr rainfall intensity.

**BOLT TIGHTENING** – All bolted joints with A325 Type 1 bolts are specified as snug-tightened joints in accordance with the with the most recent edition of the RCSC Specification for Structural Joints Using ASTM A325 OR A490 bolts. Pre-tensioning methods, including turn-of-nut, calibrated wrench, twist-off-type tension-control bolts or direct-tension-indicator are NOT required. Installation inspection requirements for snug-tight bolts (Specification for Structural Joints Section 9.1) is suggested.

**ENGINEERING DESIGN CRITERIA**

Building Code..... IBC 18  
Building Risk Category..... II – Normal

Roof Dead Load  
Superimposed..... 2.360 psf  
Collateral..... 5 psf

Roof Live Load.....20.00 psf (Not Reducible)

Snow  
Ground Snow Load (Pg)..... 43.00 psf  
Snow Load Importance Factor (Is) 1.00  
Snow Exposure Factor (Ce)..... 1.00  
Thermal Factor (Ct)..... 1.00  
Flat Roof Snow Load (Pf)..... 30.1 psf  
Minimum Roof Snow Load (Pm)..... 30.10 psf

Wind  
Ultimate Wind Speed (Vult)..... 101 mph  
Nominal Wind Speed (Vasd)..... 78 mph  
Serviceability Wind Speed..... 71 mph  
(IBC Section 1609.3.1)

Wind Exposure Category..... C  
Internal Pressure Coefficient (GCpi) 0.18 / –0.18  
Loads for components not provided by building manufacturer.

Wall Edge Zones (within 3.50' of corner)  
17.00 psf pressure  
–22.67 psf suction  
Other Wall Zones 17.00 psf pressure  
–18.42 psf suction

These values are the maximum values required based on a 10 square foot area. Components with larger areas may have lower wind loads. Zones per ASCE 7–16; FIG. 30.3–1 Zones pressures shown are Un–Factored

Seismic  
Seismic Importance Factor (Ie)..... 1.00  
Seismic Design Category..... C  
Soil Site Class..... d  
Ss..... 0.338 g Sds..... 0.345 g  
S1..... 0.101 g Sd1..... 0.162 g  
Analysis Procedure..... Equivalent Lateral Force

Location...	Int	RF	Front	SW	Back	SW	Left	EW	Right	EW
System.....	H	H	H	H	H	H	H	H	H	H
R.....	3	3	3	3	3	3	3	3	3	3
Cs.....	0.115	0.115	0.115	0.115	0.115	0.115	0.115	0.115	0.115	0.115

Design Base Shear in kips (V) Transverse 5.83  
Design Base Shear in kips (V) Longitudinal 5.56

System – Basic Force Resisting System  
H – Steel System not Specifically Detailed for Seismic Resistance  
C4 – Steel Ordinary Moment Frames  
B3 – Steel Ordinary Concentric Braced Frames  
G2 – Steel Ordinary Cantilevered Column Systems  
R – Response Modification Coefficient  
Cs – Seismic Response Coefficient  
Transverse – Direction Parallel to the Rigid Frames  
Longitudinal – Direction Perpendicular to the Rigid Frames

**Drawing Index**

Page	Description
C1	COVER SHEET
F1	ANCHOR BOLT PLAN
F2	ANCHOR BOLT REACTIONS
F3	ANCHOR BOLT DETAILS
E1	ROOF FRAMING PLAN
E2	ROOF SHEETING PLAN
E3	FRONT SIDEWALL
E4	BACK SIDEWALL
E5	LEFT ENDWALL
E6	RIGHT ENDWALL
E7–8	FRAME CROSS SECTION
E–9	PARTITION PLAN
DET1–22	STANDARD DETAILS
R1–R3	INSTALLATION SHEETS

**DRAWING STATUS**

**FOR APPROVAL**  
These drawings, being For Approval, are by definition not final, and are for conceptual representation only. Their purpose is to confirm proper interpretation of the project documents. Only drawings issued "For Erector Installation" can be considered as complete.

**FOR CONSTRUCTION PERMIT**  
These drawings, being for Permit, are by definition not final. Only drawings issued "For Erector Installation" can be considered as complete.

**FOR ERECTOR INSTALLATION**  
Final drawings for construction.

For questions or assistance Concerning Erection call:  
**800–784–9795**  
Monday–Friday 7:30am to 5:00pm

**ENGINEERING SEAL**

The engineer whose seal appears hereon is an employee for the manufacturer for the materials described herein. Said seal or certification is limited to the products designed and manufactured by manufacturer only. The undersigned engineer is not the overall engineer of record for this project.

Building Descriptions				
Building ID	Width(ft)	Length(ft)	Height(ft)	Slope
Building A	35	79	20	

This item has been electronically signed and sealed by Yuangang (Bill) Li, S.E., P.E. on the date and/or time stamp shown using a digital signature. Printed copies of this document are not considered signed and sealed and the signature must be verified by a 3rd Party Certificate Authority on any electronic copy.

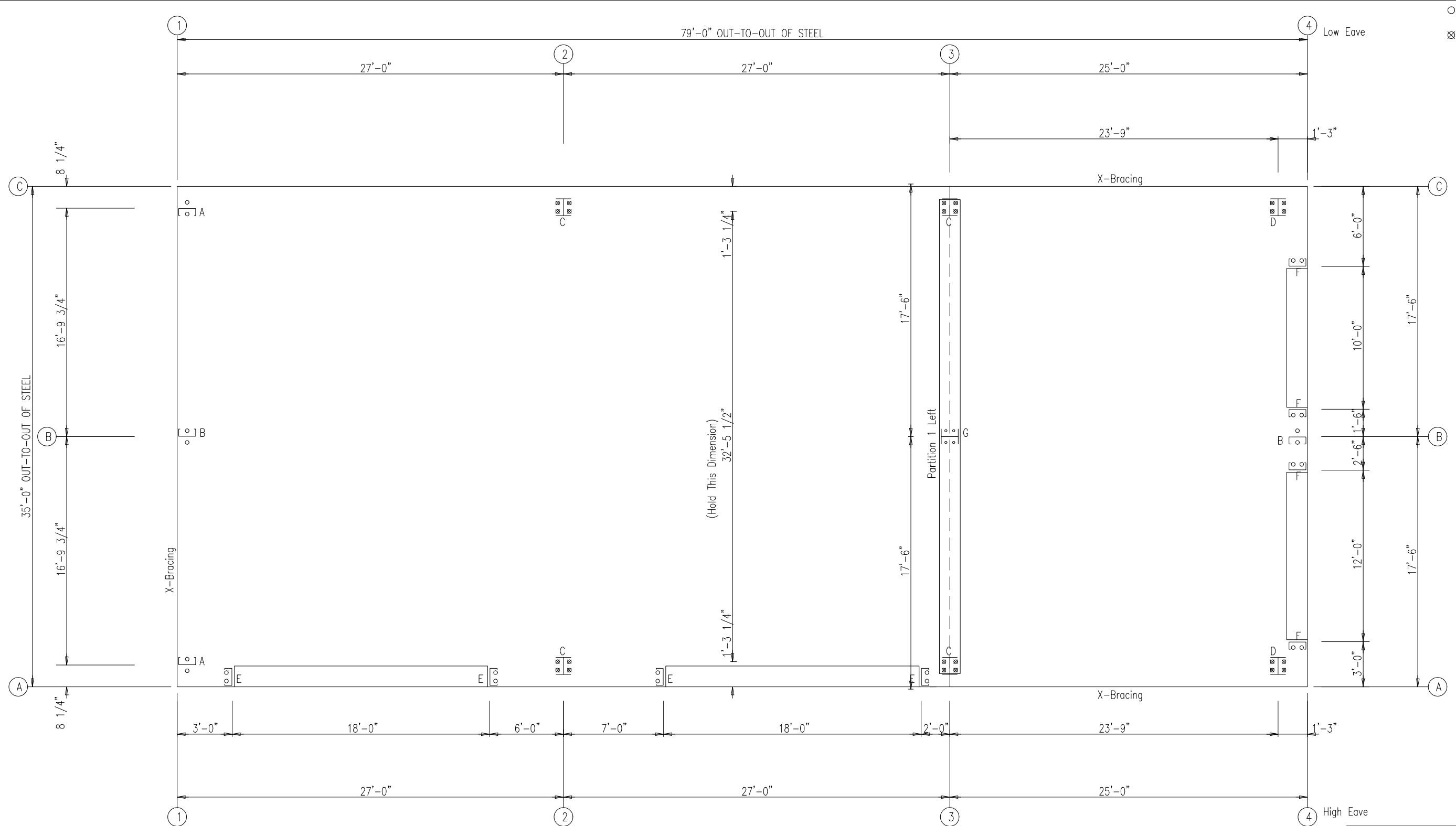
ISSUE	DATE	DESCRIPTION	BY	CK'D	DSN
0	4/20/23	FOR ERECTOR INSTALLATION	MDB	SN	CM

7301 FAIRVIEW, HOUSTON, TEXAS, P.O. BOX 40338  
ZIP 77041 (713) 466-7788 ZIP 77240

PROJECT: JIM CRAWFORD  
CUSTOMER: STEEL ERECTION & MAINTENANCE OWNER: JIM CRAWFORD  
LOCATION: PRESCOTT, AZ 86301

CAD	DATE	SCALE	PHASE	BUILDING ID	JOB NUMBER	SHEET NUMBER	ISSUE
	4/20/23	N.T.S.	1	A	19–B–34172	C1	0





○ Dia= 5/8"  
 ⊗ Dia= 3/4"

ANCHOR BOLT PLAN  
 --- Partition Wall (See KeyDwg)

This item has been electronically signed and sealed by Yuangang (Bill) Li, S.E., P.E. on the date and/or time stamp shown using a digital signature. Printed copies of this document are not considered signed and sealed and the signature must be verified by a 3rd Party Certificate Authority on any electronic copy.

ISSUE	DATE	DESCRIPTION	BY	CK'D	DSN
0	4/20/23	FOR ERECTOR INSTALLATION	MDB	SN	CM



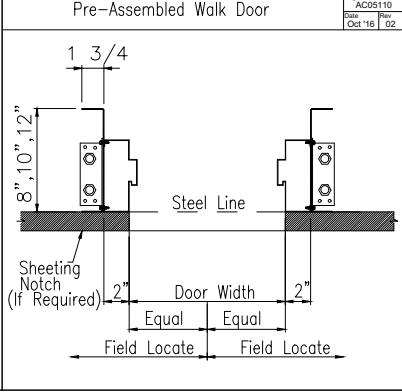
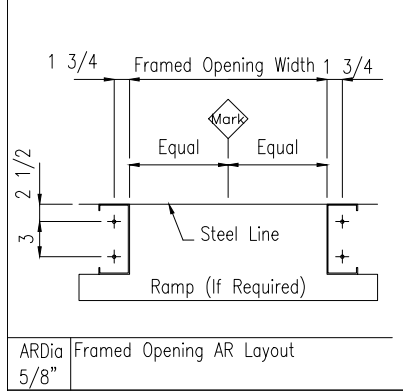
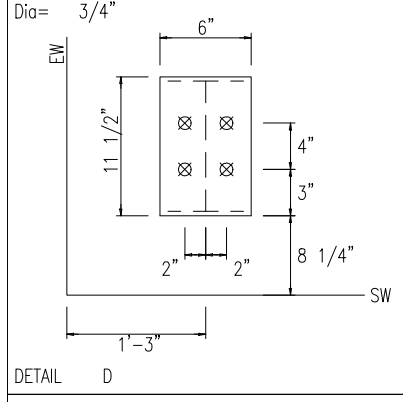
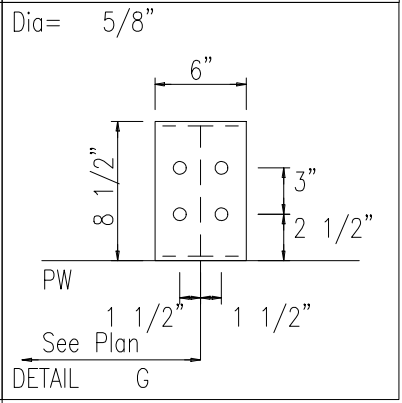
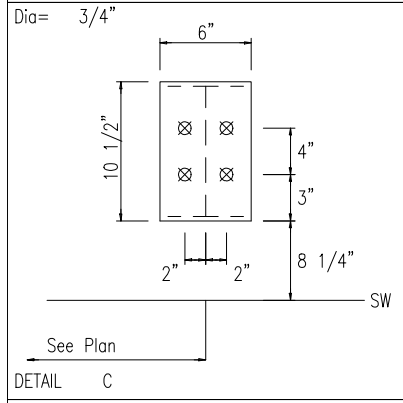
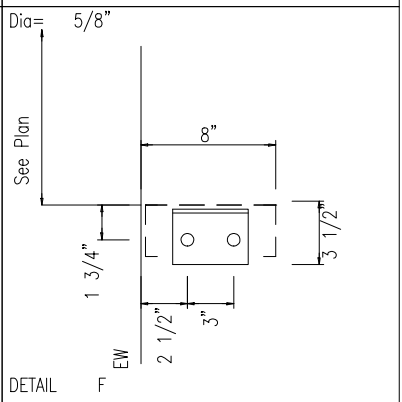
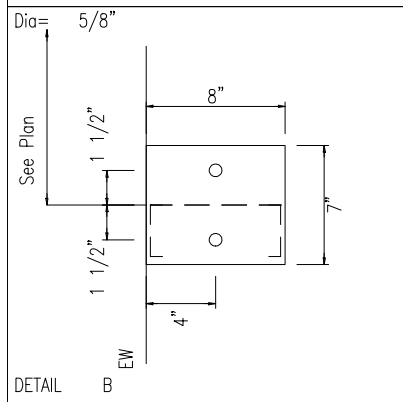
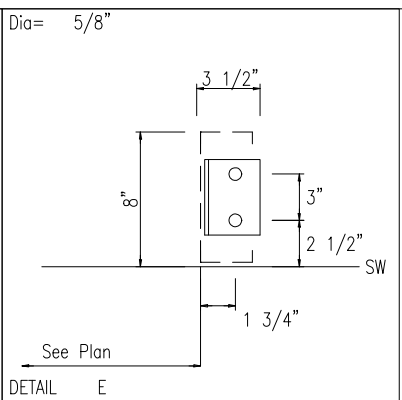
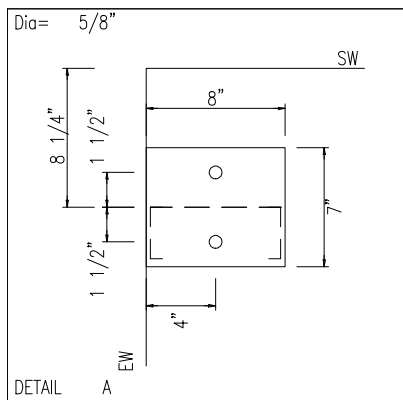
7301 FAIRVIEW, HOUSTON, TEXAS, P.O. BOX 40338  
 ZIP 77041 (713) 466-7788 ZIP 77240

PROJECT: JIM CRAWFORD		OWNER: JIM CRAWFORD					
CUSTOMER: STEEL ERECTION & MAINTENANCE		LOCATION: PRESCOTT, AZ 86301					
CAD	DATE	SCALE	PHASE	BUILDING ID	JOB NUMBER	SHEET NUMBER	ISSUE
	4/20/23	N.T.S.	1	A	19-B-34172	F1	0









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ISSUE	DATE	DESCRIPTION	BY	CK'D	DSN
0	4/20/23	FOR ERECTOR INSTALLATION	MDB	SN	CM

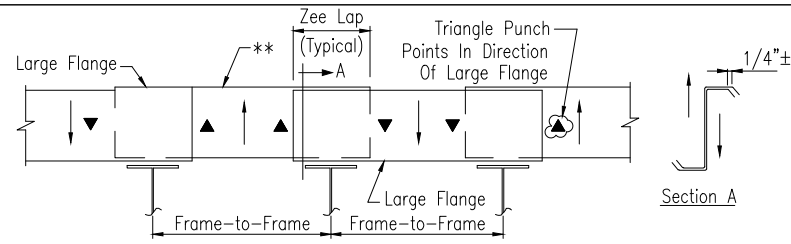
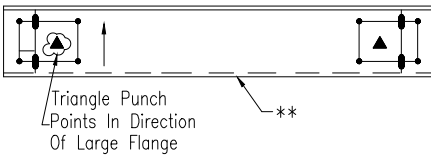


7301 FAIRVIEW, HOUSTON, TEXAS, P.O. BOX 40338  
 ZIP 77041 (713) 466-7788 ZIP 77240

PROJECT: JIM CRAWFORD		OWNER: JIM CRAWFORD	
CUSTOMER: STEEL ERECTION & MAINTENANCE			
LOCATION: PRESCOTT, AZ 86301			
CAD	DATE	SCALE	PHASE
	4/20/23	N.T.S.	1
BUILDING ID	JOB NUMBER	SHEET NUMBER	ISSUE
A	19-B-34172	F3	0



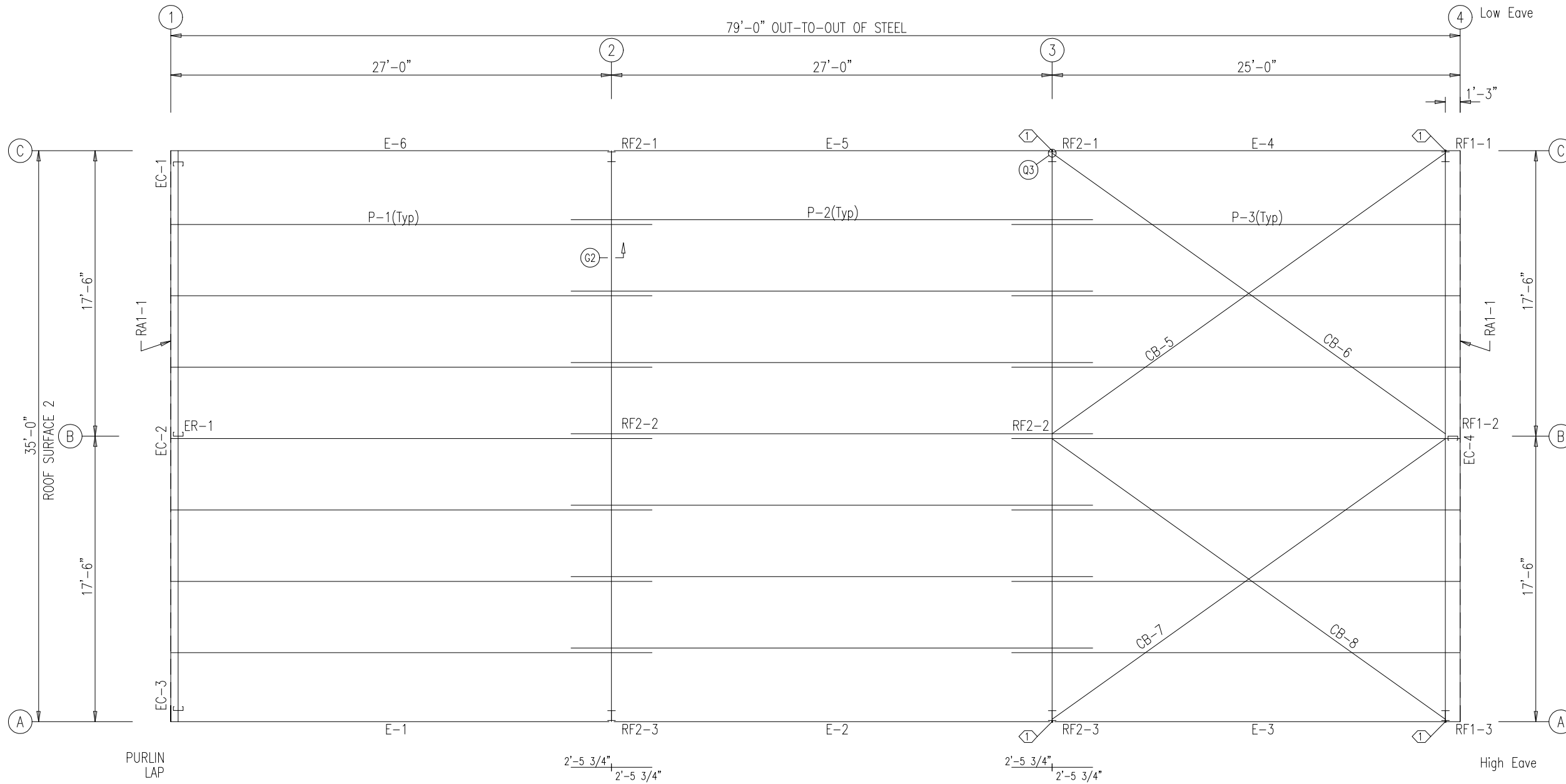
\*\* = SAME FLANGE



The large leg of the Zee must be alternated from top to bottom in order to nest the member correctly. A triangle has been added to the end of the Zee near the connection holes, that will point to the large leg of the member.

SPECIAL BOLTS					
ROOF PLAN					
ID	QUAN	TYPE	DIA	LENGTH	WASH
1	2	A325	1/2"	1 1/4"	2

MEMBER TABLE		
ROOF PLAN		
MARK	PART	LENGTH
P-1	10X25Z13	29'-5 1/2"
P-2	10X25Z12	31'-11 1/2"
P-3	10X25Z13	27'-5 1/2"
E-1	10ES2H14	26'-11 1/2"
E-2	10ES2H14	26'-11 1/2"
E-3	10ES2H14	24'-11 1/2"
E-4	10ES2L14	24'-11 1/2"
E-5	10ES2L14	26'-11 1/2"
E-6	10ES2L14	26'-11 1/2"
CB-5	1/2" DIA. ROD	28'-11"
CB-6	1/2" DIA. ROD	29'-4"
CB-7	1/2" DIA. ROD	29'-2"
CB-8	1/2" DIA. ROD	28'-10"



ROOF FRAMING PLAN

- GENERAL NOTES:
- INSTALL ALL PURLIN AND FLANGE BRACES (FB) AS SHOWN.
  - ROOF PANEL PROVIDES STRUCTURAL STABILITY TO THE BUILDING.
  - STRUT PURLINS, IF PROVIDED, MUST BE INSTALLED AND FASTENED TO ROOF SHEETING PER "PBR" PANEL ROOF DETAIL.
  - DO NOT ADD ANY ADDITIONAL ROOF OPENINGS WITHOUT BUILDING MANUFACTURER APPROVAL OR PROFESSIONAL ENGINEER APPROVAL.
  - DO NOT STACK SHEET BUNDLES ON ROOF. ONLY RAISE INDIVIDUAL SHEETS AS NEEDED.
  - AFTER INSTALLATION, WIPE ALL PANELS CLEAN OF METAL SHAVINGS CAUSED BY DRILLING.

ISSUE	DATE	DESCRIPTION	BY	CK'D	DSN
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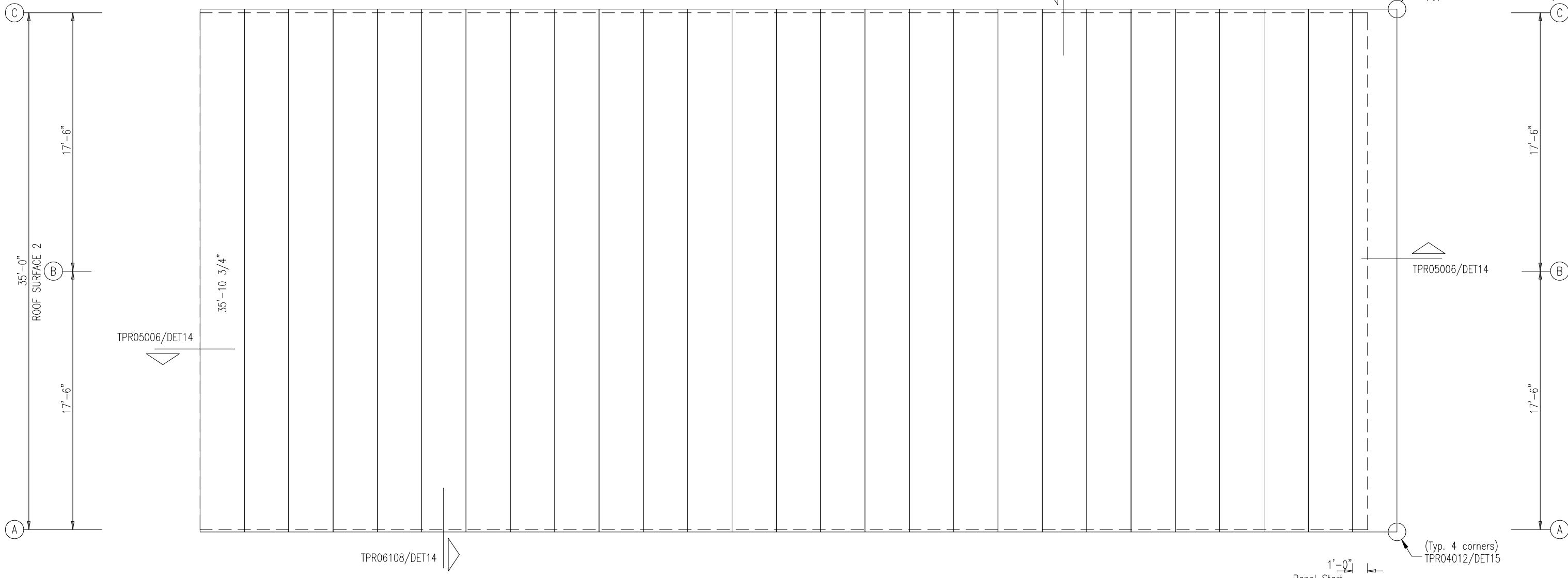
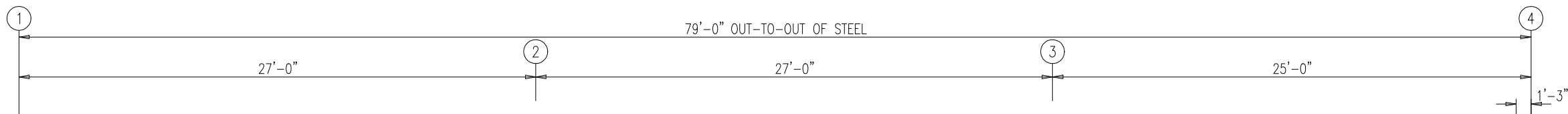
PROJECT: JIM CRAWFORD		OWNER: JIM CRAWFORD	
CUSTOMER: STEEL ERECTION & MAINTENANCE			
LOCATION: PRESCOTT, AZ 86301			
CAD	DATE	SCALE	PHASE
	4/20/23	N.T.S.	1
BUILDING ID	JOB NUMBER	SHEET NUMBER	ISSUE
A	19-B-34172	E1	0

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Expires 06/30/2024

**PBR ROOF SHEETING NOTE:**  
 PBR ROOF PANELS ARE TO BE FIELD CUT IF THE PANELS EXTEND OUTSIDE OF THE ROOF PLANE, PANELS ARE NOT TO BE BACK LAPPED.



**Non-Standard PBR Roof Panel Fasteners**

#3A member fasteners are to be used for panel to secondary attachment in lieu of #3 shown on the R Drawings

**ROOF SHEETING PLAN**  
 PANELS: 26 Gauge PBR - TBD

- GENERAL NOTES:**
- INSTALL ALL PURLIN AND FLANGE BRACES (FB) AS SHOWN.
  - ROOF PANEL PROVIDES STRUCTURAL STABILITY TO THE BUILDING.
  - STRUT PURLINS, IF PROVIDED, MUST BE INSTALLED AND FASTENED TO ROOF SHEETING PER "PBR" PANEL ROOF DETAIL.
  - DO NOT ADD ANY ADDITIONAL ROOF OPENINGS WITHOUT BUILDING MANUFACTURER APPROVAL OR PROFESSIONAL ENGINEER APPROVAL.
  - DO NOT STACK SHEET BUNDLES ON ROOF. ONLY RAISE INDIVIDUAL SHEETS AS NEEDED.
  - AFTER INSTALLATION, WIPE ALL PANELS CLEAN OF METAL SHAVINGS CAUSED BY DRILLING.

ISSUE	DATE	DESCRIPTION	BY	CK'D	DSN
0	4/20/23	FOR ERECTOR INSTALLATION	MDB	SN	CM



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PROJECT: JIM CRAWFORD		OWNER: JIM CRAWFORD					
CUSTOMER: STEEL ERECTION & MAINTENANCE		LOCATION: PRESCOTT, AZ 86301					
CAD	DATE	SCALE	PHASE	BUILDING ID	JOB NUMBER	SHEET NUMBER	ISSUE
	4/20/23	N.T.S.	1	A	19-B-34172	E2	0

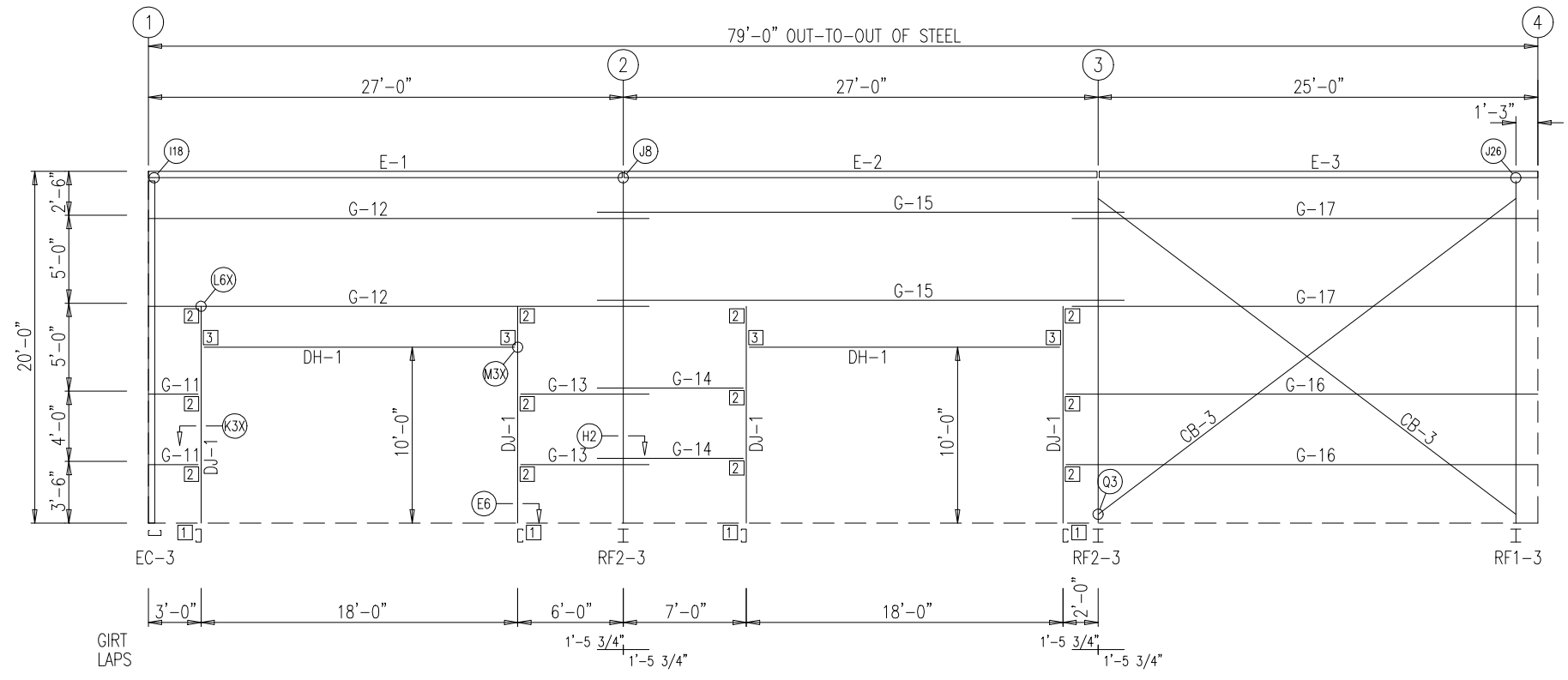
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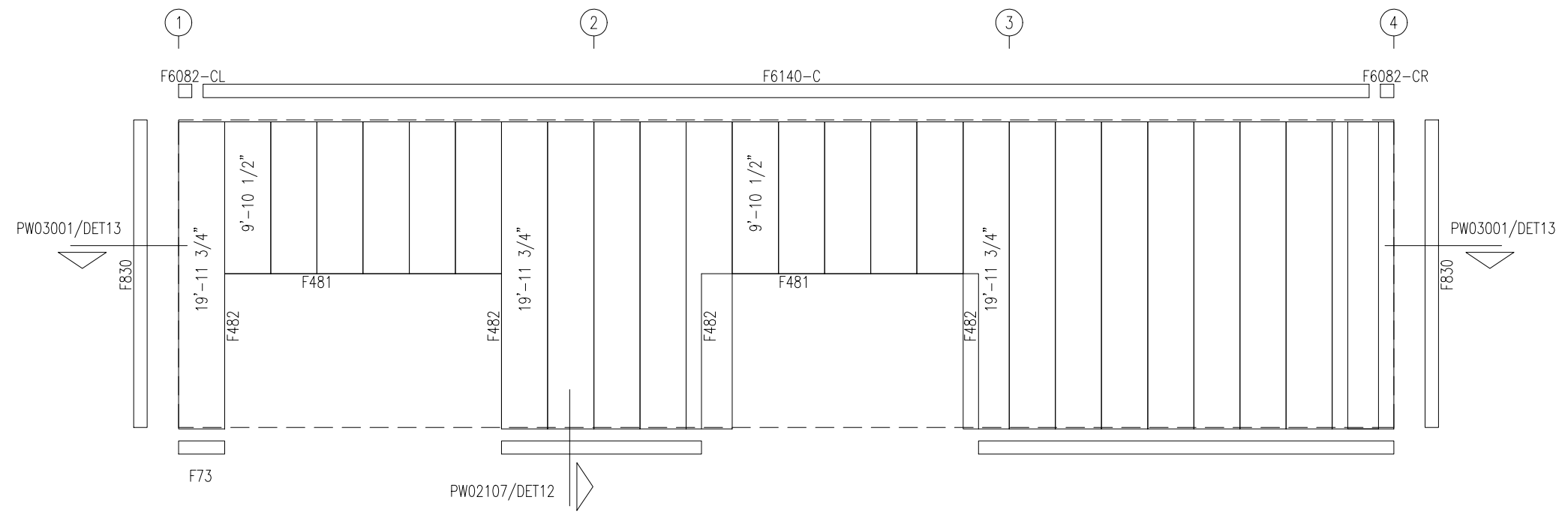
SPECIAL BOLTS						
Ø ID	QUAN	TYPE	DIA	LENGTH	WASH	
2	2	A325	1/2"	1 1/4"	2	

MEMBER TABLE FRAME LINE A		
MARK	PART	LENGTH
DJ-1	8X35C14	12'-1 3/4"
DH-1	8X35C14	17'-11 3/4"
E-1	10ES2H14	26'-11 1/2"
E-2	10ES2H14	26'-11 1/2"
E-3	10ES2H14	24'-11 1/2"
G-11	8X25Z16	2'-7 3/4"
G-12	8X25Z16	28'-5 1/2"
G-13	8X25Z16	7'-1 3/4"
G-14	8X25Z16	8'-1 3/4"
G-15	8X25Z16	29'-11 1/2"
G-16	8X25Z16	26'-7 3/4"
G-17	8X25Z16	26'-5 1/2"
CB-3	5/8" DIA. ROD	30'-4"

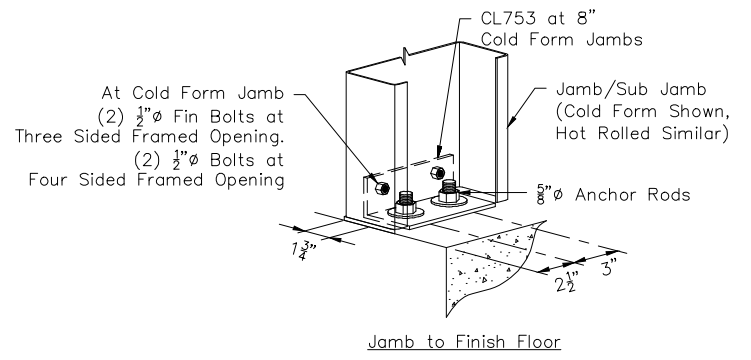
CONNECTION PLATES FRAME LINE A	
Ø ID	MARK/PART
1	CL753
2	CL751
3	SC425



SIDEWALL FRAMING: FRAME LINE A



SIDEWALL SHEETING & TRIM: FRAME LINE A



**Non-Standard PBR Wall Panel Fasteners**  
 #17B member fasteners are to be used for panel to secondary attachment in lieu of #17A shown on the R Drawings

- GENERAL NOTES:**
1. INSTALL ALL GIRTS AND FLANGE BRACES (FB) AS SHOWN.
  2. WALL PANEL PROVIDES STRUCTURAL STABILITY TO THE BUILDING.
  3. OTHER THAN FOR WALK DOORS AND WINDOWS SHOWN ON THE CONTRACT, DO NOT ADD ADDITIONAL WALL OPENINGS WITHOUT APPROVAL OF BUILDING MANUFACTURER OR PROFESSIONAL ENGINEER.
  4. AFTER INSTALLATION, WIPE ALL PANELS CLEAN OF METAL SHAVINGS CAUSED BY DRILLING.

PANELS: 26 Gauge PBR - TBD

ISSUE	DATE	DESCRIPTION	BY	CK'D	DSN
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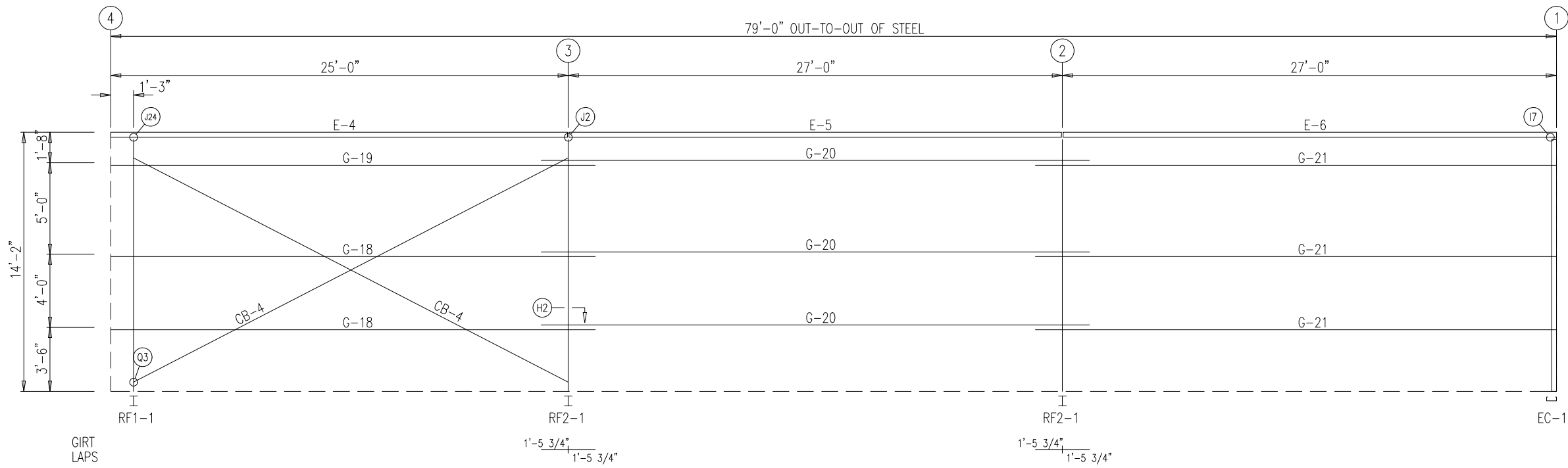
PROJECT:	JIM CRAWFORD						
CUSTOMER:	STEEL ERECTION & MAINTENANCE						
OWNER:	JIM CRAWFORD						
LOCATION:	PRESCOTT, AZ 86301						
CAD	DATE	SCALE	PHASE	BUILDING ID	JOB NUMBER	SHEET NUMBER	ISSUE
	4/20/23	N.T.S.	1	A	19-B-34172	E3	0

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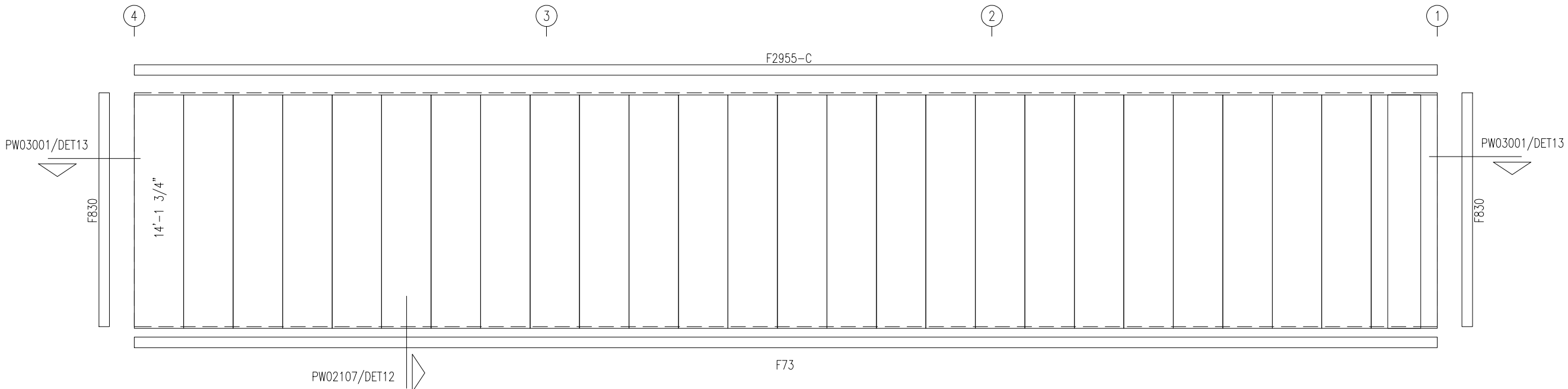


SPECIAL BOLTS						
Q ID	QUAN	TYPE	DIA	LENGTH	WASH	
2	2	A325	1/2"	1 1/4"	2	

MEMBER TABLE FRAME LINE C		
MARK	PART	LENGTH
E-4	10ES2L14	24'-11 1/2"
E-5	10ES2L14	26'-11 1/2"
E-6	10ES2L14	26'-11 1/2"
G-18	8X25Z16	26'-5 1/2"
G-19	8X25Z16	26'-5 1/2"
G-20	8X25Z16	29'-11 1/2"
G-21	8X25Z16	28'-5 1/2"
CB-4	1/2" DIA. ROD	27'-4"



SIDEWALL FRAMING: FRAME LINE C



SIDEWALL SHEETING & TRIM: FRAME LINE C

PANELS: 26 Gauge PBR - TBD

**Non-Standard PBR Wall Panel Fasteners**  
 #17B member fasteners are to be used for panel to secondary attachment in lieu of #17A shown on the R Drawings

- GENERAL NOTES:**
- INSTALL ALL GIRTS AND FLANGE BRACES (FB) AS SHOWN.
  - WALL PANEL PROVIDES STRUCTURAL STABILITY TO THE BUILDING.
  - OTHER THAN FOR WALK DOORS AND WINDOWS SHOWN ON THE CONTRACT, DO NOT ADD ADDITIONAL WALL OPENINGS WITHOUT APPROVAL OF BUILDING MANUFACTURER OR PROFESSIONAL ENGINEER.
  - AFTER INSTALLATION, WIPE ALL PANELS CLEAN OF METAL SHAVINGS CAUSED BY DRILLING.

ISSUE	DATE	DESCRIPTION	BY	CK'D	DSN
0	4/20/23	FOR ERECTOR INSTALLATION	MDB	SN	CM



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PROJECT: JIM CRAWFORD		OWNER: JIM CRAWFORD					
CUSTOMER: STEEL ERECTION & MAINTENANCE		LOCATION: PRESCOTT, AZ 86301					
CAD	DATE	SCALE	PHASE	BUILDING ID	JOB NUMBER	SHEET NUMBER	ISSUE
	4/20/23	N.T.S.	1	A	19-B-34172	E4	0

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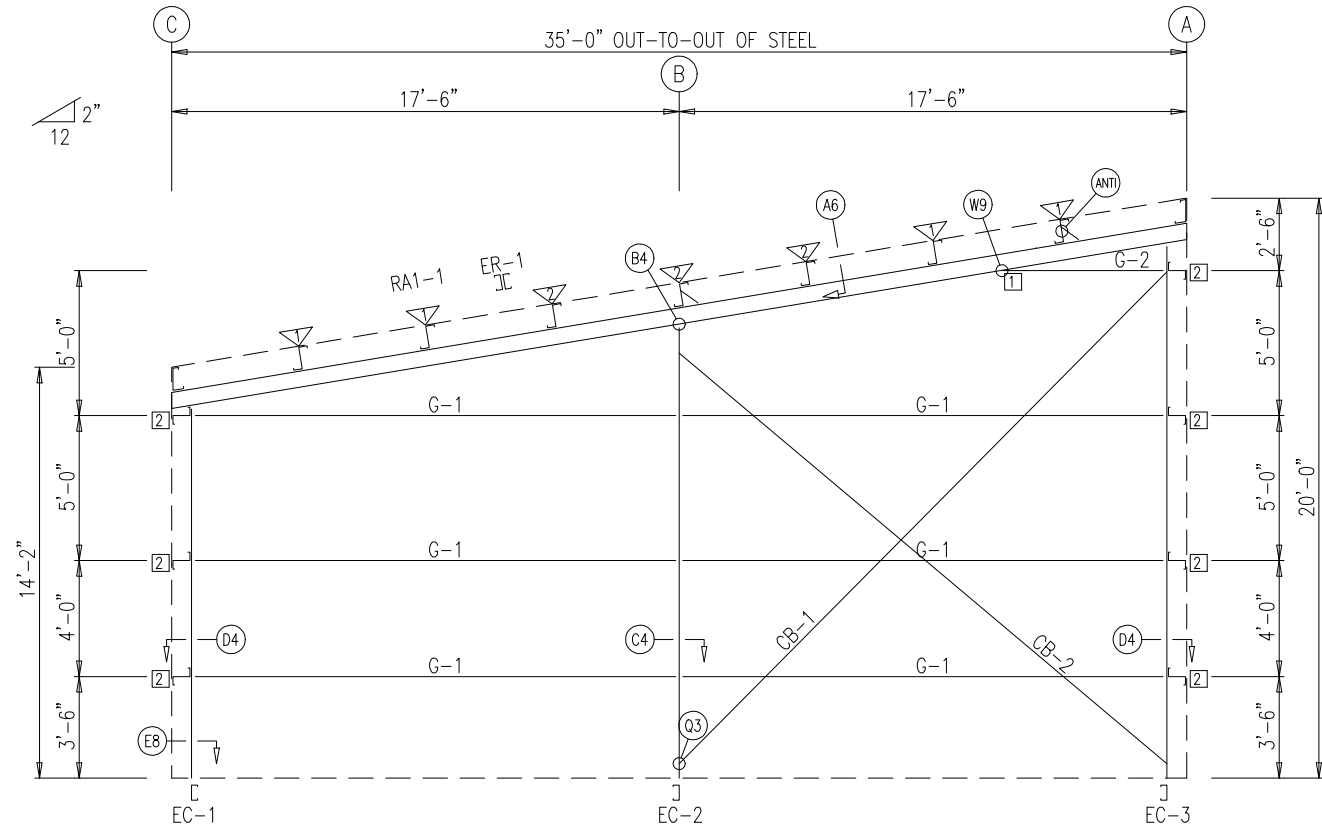
**BEARING FRAME ONLY!**  
 WASHER TO BE USED AT ENDWALL COLUMN TO ENDWALL  
 RAFTER CONNECTION. USE ONE WASHER ON COLUMN SIDE.  
 WASHER NOT NEEDED ON CLIP SIDE.

BOLT TABLE				
FRAME LINE 1				
LOCATION	QUAN	TYPE	DIA	LENGTH
Columns/Raf	4	A325	1/2"	1 1/4"

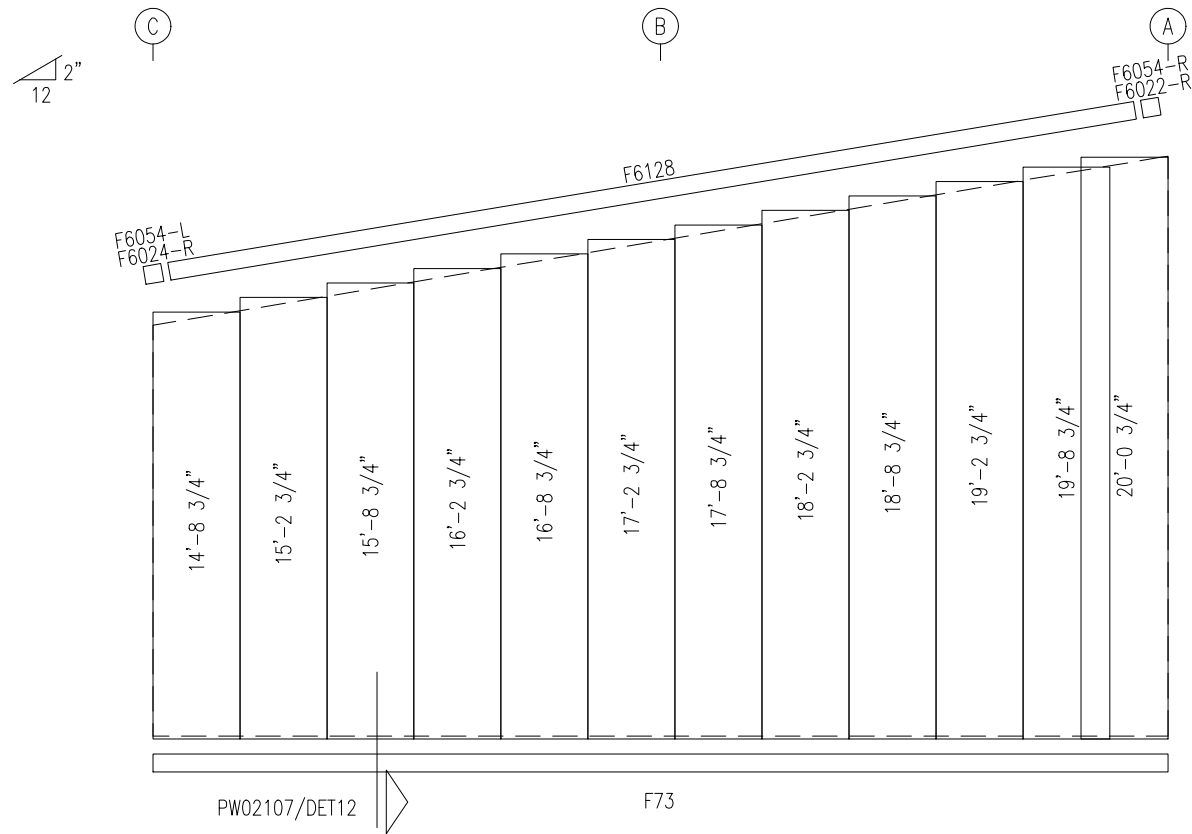
MEMBER TABLE		
FRAME LINE 1		
MARK	PART	LENGTH
EC-1	8F25C14	12'-7 7/8"
EC-2	8F35C12	15'-5 1/2"
EC-3	8F25C12	18'-3 1/8"
ER-1	8F70D12	35'-5 5/16"
G-1	8X25Z16	16'-1 3/4"
G-2	8X25Z16	4'-8 3/4"
CB-1	1/2" DIA. ROD	24'-6"
CB-2	1/2" DIA. ROD	22'-7"

FLANGE BRACE TABLE		
FRAME LINE 1		
▽ ID	PART	LENGTH
1	FB29.5	L2X2X1/4G
2	FB6-1	L2X2X1/8

CONNECTION PLATES	
FRAME LINE 1	
□ ID	MARK/PART
1	CL558
2	SC5

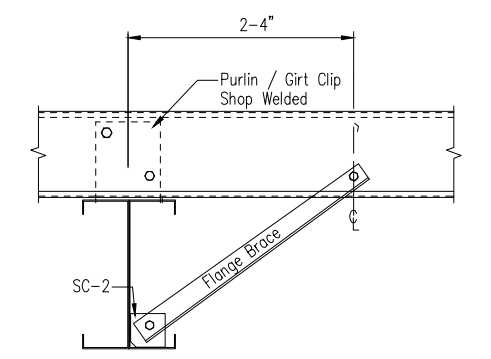


ENDWALL FRAMING: FRAME LINE 1



ENDWALL SHEETING & TRIM: FRAME LINE 1

PANELS: 26 Gauge PBR - TBD



**Non-Standard PBR Wall Panel Fasteners**  
 #17B member fasteners are to be used for panel to secondary attachment in lieu of #17A shown on the R Drawings

- GENERAL NOTES:**
- INSTALL ALL GIRTS AND FLANGE BRACES (FB) AS SHOWN.
  - WALL PANEL PROVIDES STRUCTURAL STABILITY TO THE BUILDING.
  - OTHER THAN FOR WALK DOORS AND WINDOWS SHOWN ON THE CONTRACT, DO NOT ADD ADDITIONAL WALL OPENINGS WITHOUT APPROVAL OF BUILDING MANUFACTURER OR PROFESSIONAL ENGINEER.
  - AFTER INSTALLATION, WIPE ALL PANELS CLEAN OF METAL SHAVINGS CAUSED BY DRILLING.

ISSUE	DATE	DESCRIPTION	BY	CK'D	DSN
0	4/20/23	FOR ERECTOR INSTALLATION	MDB	SN	CM



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 ZIP 77041 (713) 466-7788 ZIP 77240

PROJECT: JIM CRAWFORD		OWNER: JIM CRAWFORD					
CUSTOMER: STEEL ERECTION & MAINTENANCE		LOCATION: PRESCOTT, AZ 86301					
CAD	DATE	SCALE	PHASE	BUILDING ID	JOB NUMBER	SHEET NUMBER	ISSUE
	4/20/23	N.T.S.	1	A	19-B-34172	E5	0

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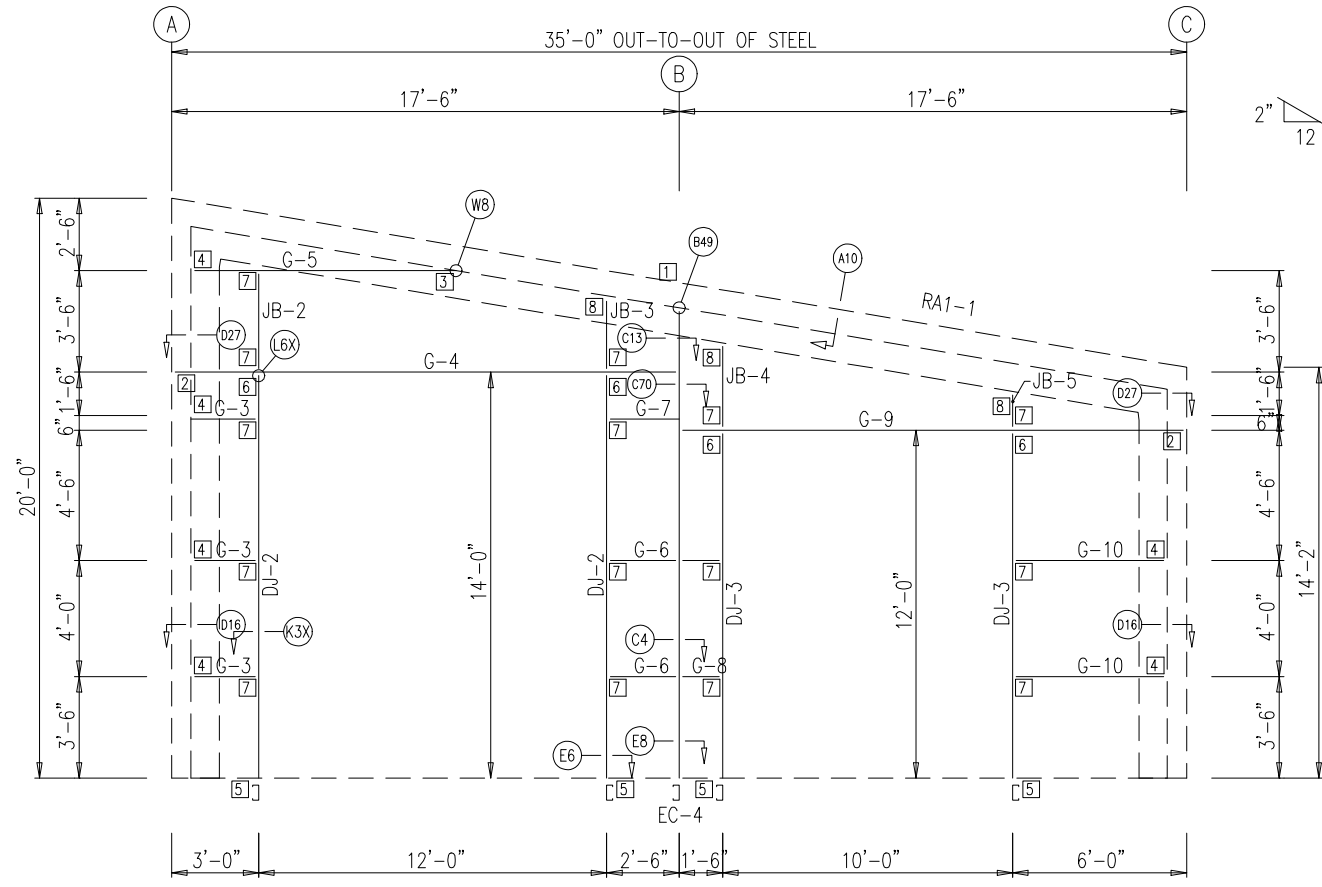


**BEARING FRAME ONLY!**  
 WASHER TO BE USED AT ENDWALL COLUMN TO ENDWALL  
 RAFTER CONNECTION. USE ONE WASHER ON COLUMN SIDE.  
 WASHER NOT NEEDED ON CLIP SIDE.

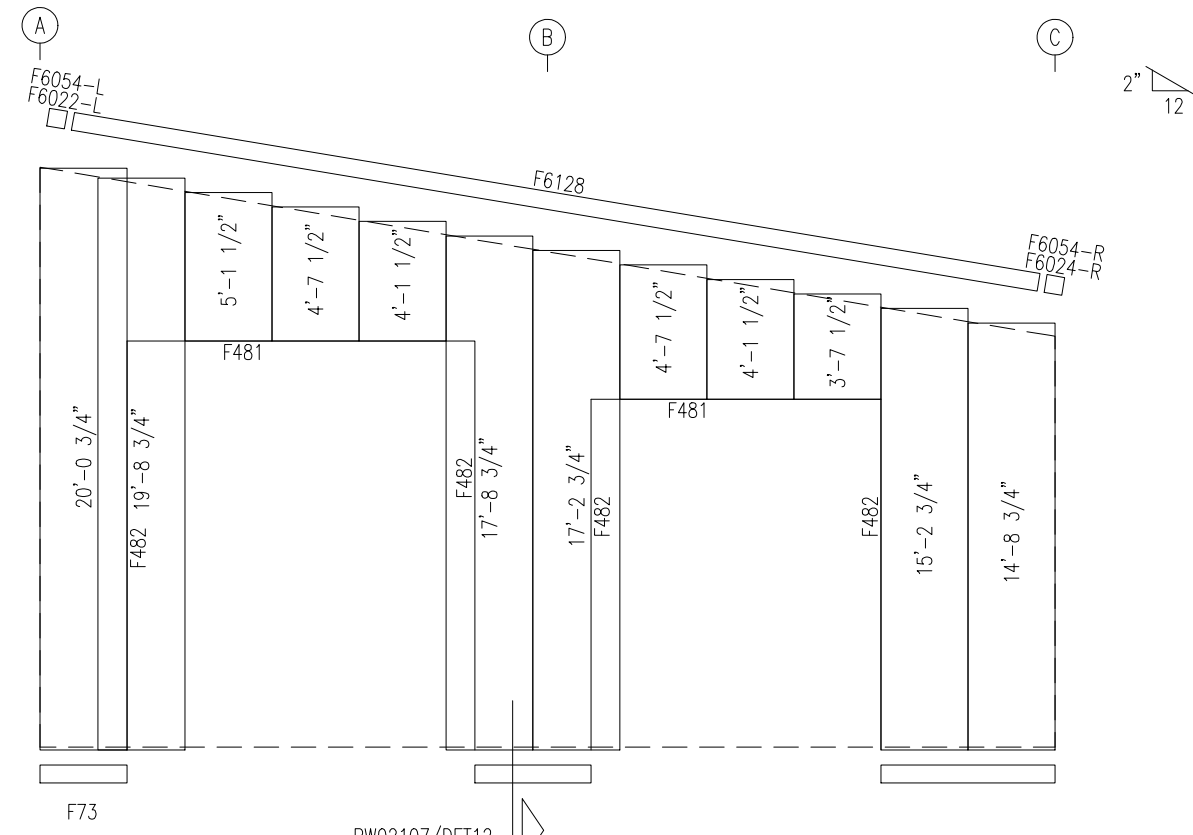
BOLT TABLE				
FRAME LINE 4				
LOCATION	QUAN	TYPE	DIA	LENGTH
Columns/Raf	10	A325	1/2"	1 1/4"

MEMBER TABLE		
FRAME LINE 4		
MARK	PART	LENGTH
EC-4	8f35c14	16'-0 9/16"
DJ-2	8x35c14	13'-11 3/4"
DJ-3	8x35c14	11'-11 3/4"
G-3	8x25z16	1'-11 3/4"
G-4	8x25c16	17'-1 3/4"
G-5	8x25z16	9'-1 3/8"
G-6	8x25z16	1'-10"
G-7	8x25z16	2'-1 3/4"
G-8	8x25z16	10"
G-9	8x25c16	17'-1 3/4"
G-10	8x25z16	4'-11 3/4"
JB-2	8x35c14	2'-10"
JB-3	8x35c14	2'-1 9/16"
JB-4	8x35c14	3'-5 9/16"
JB-5	8x35c14	1'-9 9/16"

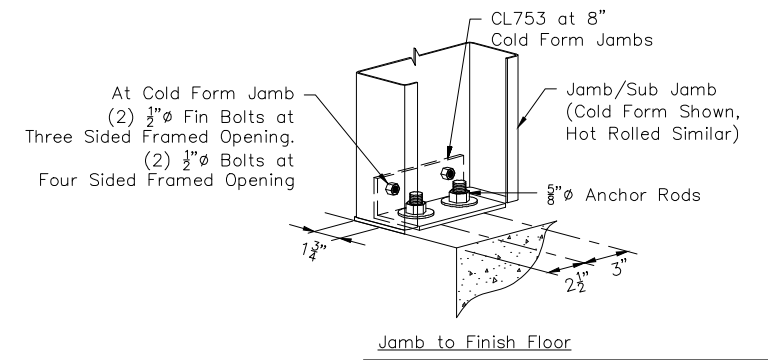
CONNECTION PLATES	
FRAME LINE 4	
ID	MARK/PART
1	SC530
2	d2
3	d1
4	SC484
5	CL753
6	CL750
7	CL751
8	n2



ENDWALL FRAMING: FRAME LINE 4



ENDWALL SHEETING & TRIM: FRAME LINE 4  
 PANELS: 26 Gauge PBR - Desert Sand



**Non-Standard PBR Wall Panel Fasteners**  
 #17B member fasteners are to be used for panel to secondary attachment in lieu of #17A shown on the R Drawings

- GENERAL NOTES:**
- INSTALL ALL GIRTS AND FLANGE BRACES (FB) AS SHOWN.
  - WALL PANEL PROVIDES STRUCTURAL STABILITY TO THE BUILDING.
  - OTHER THAN FOR WALK DOORS AND WINDOWS SHOWN ON THE CONTRACT, DO NOT ADD ADDITIONAL WALL OPENINGS WITHOUT APPROVAL OF BUILDING MANUFACTURER OR PROFESSIONAL ENGINEER.
  - AFTER INSTALLATION, WIPE ALL PANELS CLEAN OF METAL SHAVINGS CAUSED BY DRILLING.

ISSUE	DATE	DESCRIPTION	BY	CK'D	DSN
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7301 FAIRVIEW, HOUSTON, TEXAS, P.O. BOX 40338  
 ZIP 77041 (713) 466-7788 ZIP 77240

PROJECT:	JIM CRAWFORD						
CUSTOMER:	STEEL ERECTION & MAINTENANCE			OWNER:	JIM CRAWFORD		
LOCATION:	PRESCOTT, AZ 86301						
CAD	DATE	SCALE	PHASE	BUILDING ID	JOB NUMBER	SHEET NUMBER	ISSUE
	4/20/23	N.T.S.	1	A	19-B-34172	E6	0

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SPLICE PLATE & BOLT TABLE										
Mark	Qty	Top	Bot	Int	Type	Dia	Length	Width	Thick	Length
SP-1	4	4	0		A325	3/4"	2"	6"	1/2"	1'-6"

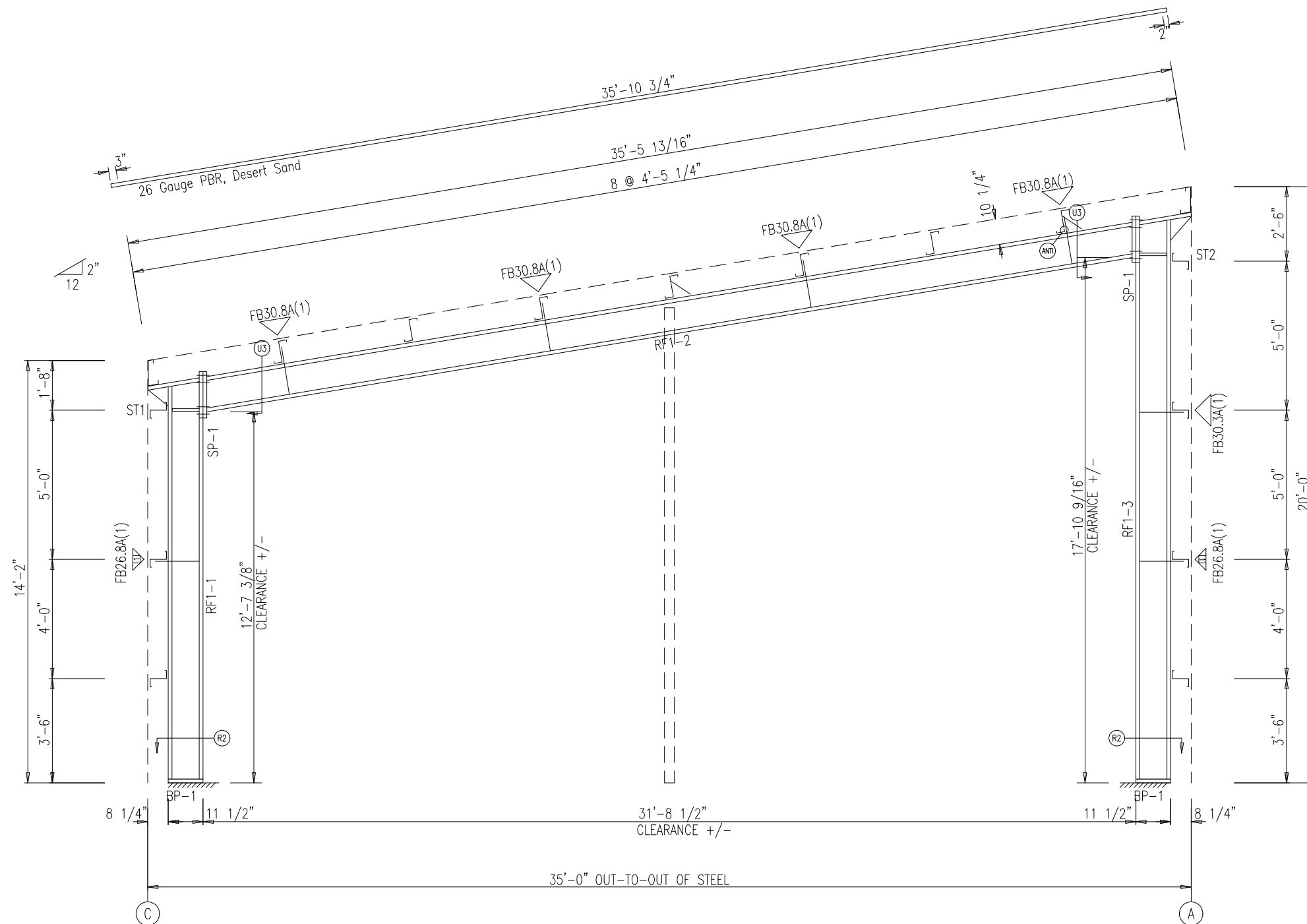
STIFFENER TABLE				
Mark	Stiff Mark	Width	Plate Size Thick	Length
RF1-1	ST1	2 1/2"	1/4"	11"
RF1-3	ST2	2 1/2"	1/4"	11"

BASE PLATE TABLE			
Col Mark	Width	Plate Size Thick	Length
BP-1	6"	3/8"	11 1/2"

MEMBER TABLE								
Mark	Web Depth		Web Plate		Outside Flange		Inside Flange	
	Start/End	Thick	Length	Thick	Length	W x Thk x Length	W x Thk x Length	
RF1-1	11.0/11.0	0.134	147.7			5 x 1/4" x 160.4	5 x 1/4" x 147.7	
	11.0/11.0	0.156	14.5			5 x 1/4" x 19.7		
RF1-2	11.0/11.0	0.134	240.0			5 x 1/4" x 240.0	5 x 1/4" x 240.0	
	11.0/11.0	0.134	146.1			5 x 1/4" x 144.2	5 x 1/4" x 144.2	
RF1-3	11.0/11.0	0.250	16.5			5 x 1/4" x 19.7	5 x 1/4" x 211.1	
	11.0/11.0	0.134	211.1			5 x 1/4" x 227.6		

CONNECTION PLATES	
ID	Mark/Part
1	CL190

FLANGE BRACES: FBxx (1 or 2)  
 xx=length(in)  
 (1) One Side; (2) Two Sides  
 A - L2X2X14G



RIGID FRAME ELEVATION: FRAME LINE 4

**GENERAL NOTES:**  
 1. BOLT TIGHTENING - ALL BOLTED JOINTS WITH A325 TYPE 1 BOLTS ARE SPECIFIED AS SNUG-TIGHTENED JOINTS IN ACCORDANCE WITH THE WITH THE MOST RECENT EDITION OF THE RCSC SPECIFICATION FOR STRUCTURAL JOINTS USING ASTM A325 OR A490 BOLTS. PRE-TENSIONING METHODS, INCLUDING TURN-OF-NUT, CALIBRATED WRENCH, TWIST-OFF-TYPE TENSION-CONTROL BOLTS OR DIRECT-TENSION-INDICATOR ARE NOT REQUIRED. INSTALLATION INSPECTION REQUIREMENTS FOR SNUG-TIGHT BOLTS (SPECIFICATION FOR STRUCTURAL JOINTS SECTION 9.1) IS SUGGESTED.  
 2. ALL FIELD CONNECTIONS OF SECONDARY FRAMING SHALL BE BOLTED WITH A325 BOLTS.  
 3. INSTALL ALL FLANGE BRACES ON COLUMN AND RAFTER AS SHOWN.

ISSUE	DATE	DESCRIPTION	BY	CK'D	DSN
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 ZIP 77041 (713) 466-7788 ZIP 77240

PROJECT:	JIM CRAWFORD						
CUSTOMER:	STEEL ERECTION & MAINTENANCE			OWNER: JIM CRAWFORD			
LOCATION:	PRESCOTT, AZ 86301						
CAD	DATE	SCALE	PHASE	BUILDING ID	JOB NUMBER	SHEET NUMBER	ISSUE
	4/20/23	N.T.S.	1	A	19-B-34172	E7	0

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SPLICE PLATE & BOLT TABLE									
Mark	Qty Top	Qty Bot	Int	Type	Dia	Length	Width	Thick	Length
SP-1	4	4	0	A325	3/4"	2"	6"	1/2"	2'-0"

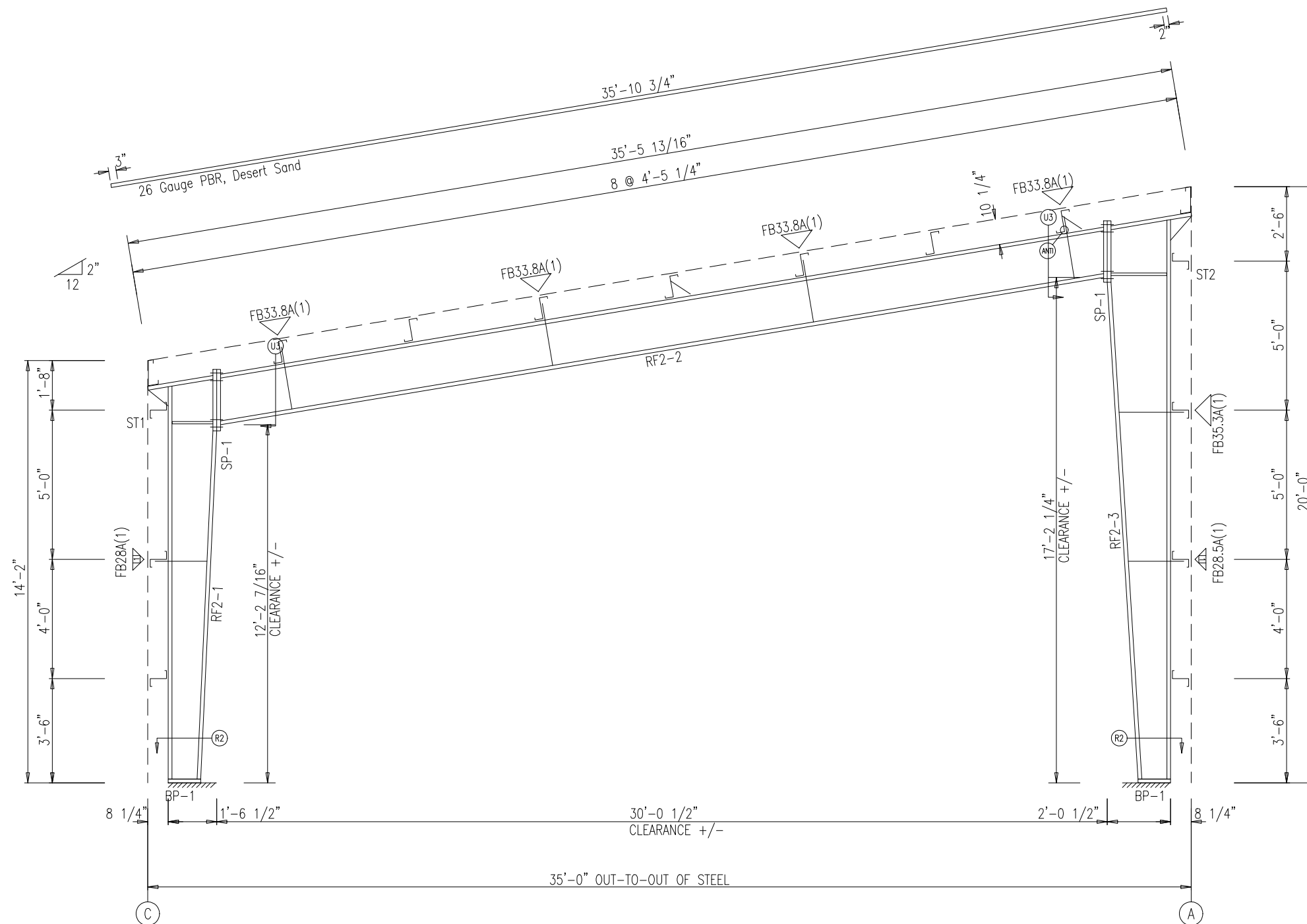
STIFFENER TABLE				
Mark	Stiff Mark	Width	Plate Size Thick	Length
RF2-1	ST1	2 1/2"	1/4"	18"
RF2-3	ST2	2 1/2"	1/4"	24"

BASE PLATE TABLE			
Col Mark	Width	Plate Size Thick	Length
BP-1	6"	3/8"	10 1/2"

MEMBER TABLE					
Mark	Web Depth		Web Plote		Outside Flange
	Start/End	Thick	Length	Thick	W x Thk x Length
RF2-1	10.0/18.0	0.134	163.4	0.134	5 x 1/4" x 160.4 5 x 1/4" x 26.8
RF2-2	17.0/17.0	0.134	240.0	0.134	5 x 1/4" x 240.0 5 x 1/4" x 123.9
RF2-3	24.0/24.0	0.156	24.7	0.134	5 x 1/4" x 32.9
	24.0/10.0	0.134	202.9	0.134	5 x 1/4" x 227.6

CONNECTION PLATES	
ID	Mark/Part
1	CL190

FLANGE BRACES: FBxx (1 or 2)  
 xx=length(in)  
 (1) One Side; (2) Two Sides  
 A - L2X2X14G



RIGID FRAME ELEVATION: FRAME LINE 2 3

- GENERAL NOTES:**
- BOLT TIGHTENING - ALL BOLTED JOINTS WITH A325 TYPE 1 BOLTS ARE SPECIFIED AS SNUG-TIGHTENED JOINTS IN ACCORDANCE WITH THE WITH THE MOST RECENT EDITION OF THE RSCC SPECIFICATION FOR STRUCTURAL JOINTS USING ASTM A325 OR A490 BOLTS. PRE-TENSIONING METHODS, INCLUDING TURN-OF-NUT, CALIBRATED WRENCH, TWIST-OFF-TYPE TENSION-CONTROL BOLTS OR DIRECT-TENSION-INDICATOR ARE NOT REQUIRED. INSTALLATION INSPECTION REQUIREMENTS FOR SNUG-TIGHT BOLTS (SPECIFICATION FOR STRUCTURAL JOINTS SECTION 9.1) IS SUGGESTED.
  - ALL FIELD CONNECTIONS OF SECONDARY FRAMING SHALL BE BOLTED WITH A325 BOLTS.
  - INSTALL ALL FLANGE BRACES ON COLUMN AND RAFTER AS SHOWN.

ISSUE	DATE	DESCRIPTION	BY	CK'D	DSN
0	4/20/23	FOR ERECTOR INSTALLATION	MDB	SN	CM

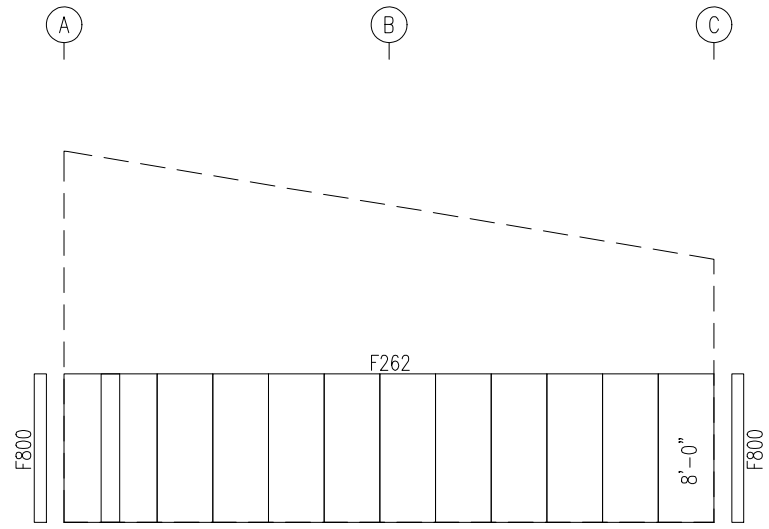


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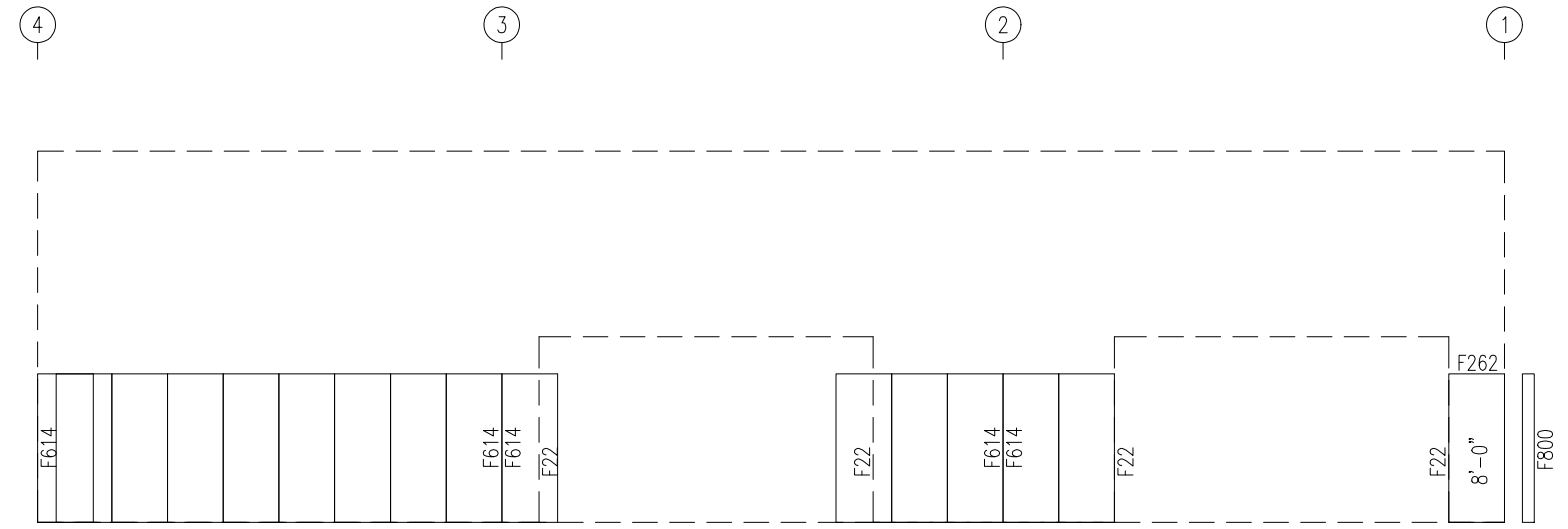
PROJECT: JIM CRAWFORD		OWNER: JIM CRAWFORD					
CUSTOMER: STEEL ERECTION & MAINTENANCE		LOCATION: PRESCOTT, AZ 86301					
CAD	DATE	SCALE	PHASE	BUILDING ID	JOB NUMBER	SHEET NUMBER	ISSUE
	4/20/23	N.T.S.	1	A	19-B-34172	E8	0

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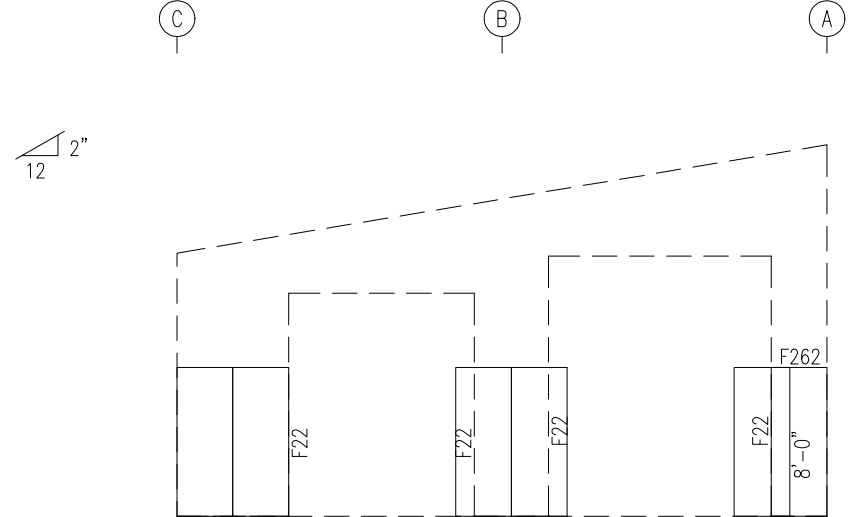




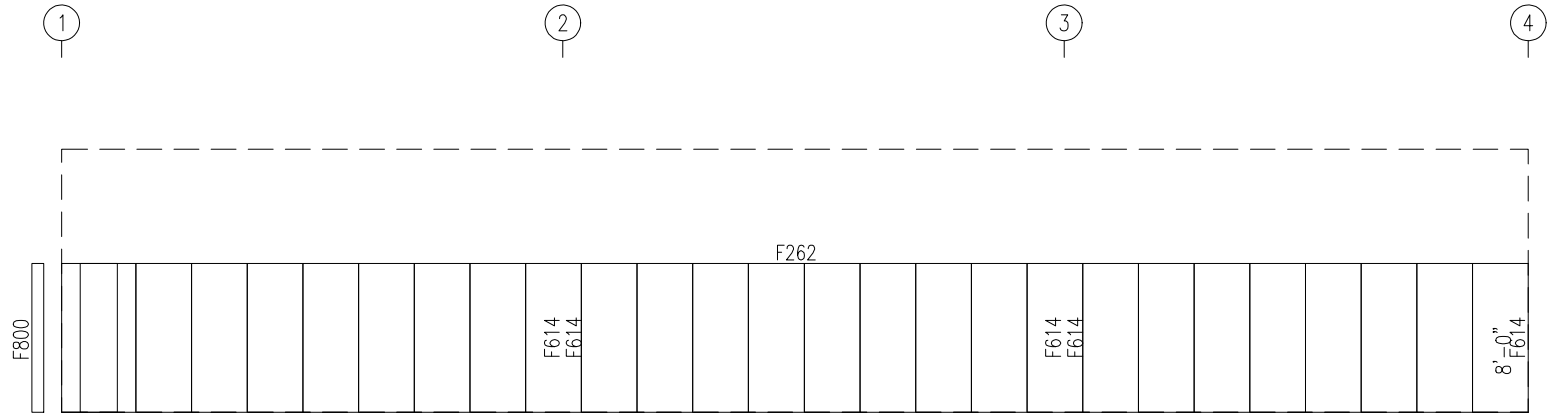
ENDWALL LINER SHEETING & TRIM: FRAME LINE 1  
 PANELS: 26 Gauge PBR – Polar White



SIDEWALL LINER SHEETING & TRIM: FRAME LINE A  
 PANELS: 26 Gauge PBR – Polar White




ENDWALL LINER SHEETING & TRIM: FRAME LINE 4  
 PANELS: 26 Gauge PBR – Polar White

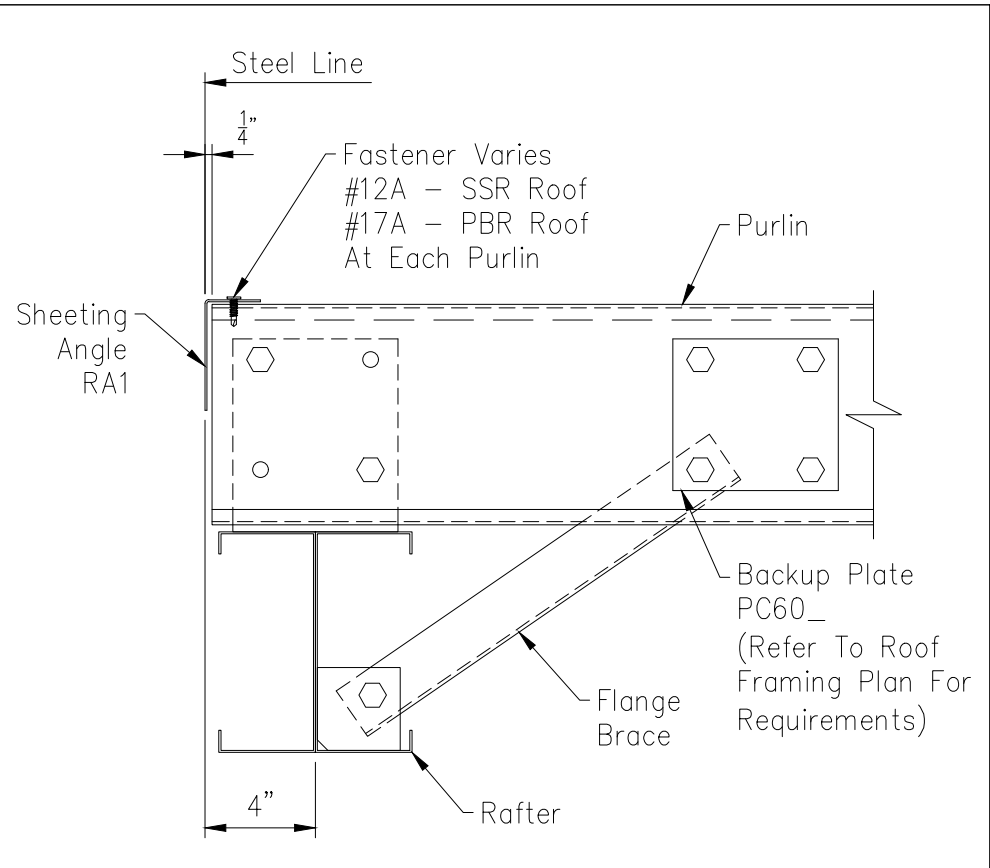


SIDEWALL LINER SHEETING & TRIM: FRAME LINE C  
 PANELS: 26 Gauge PBR – Polar White

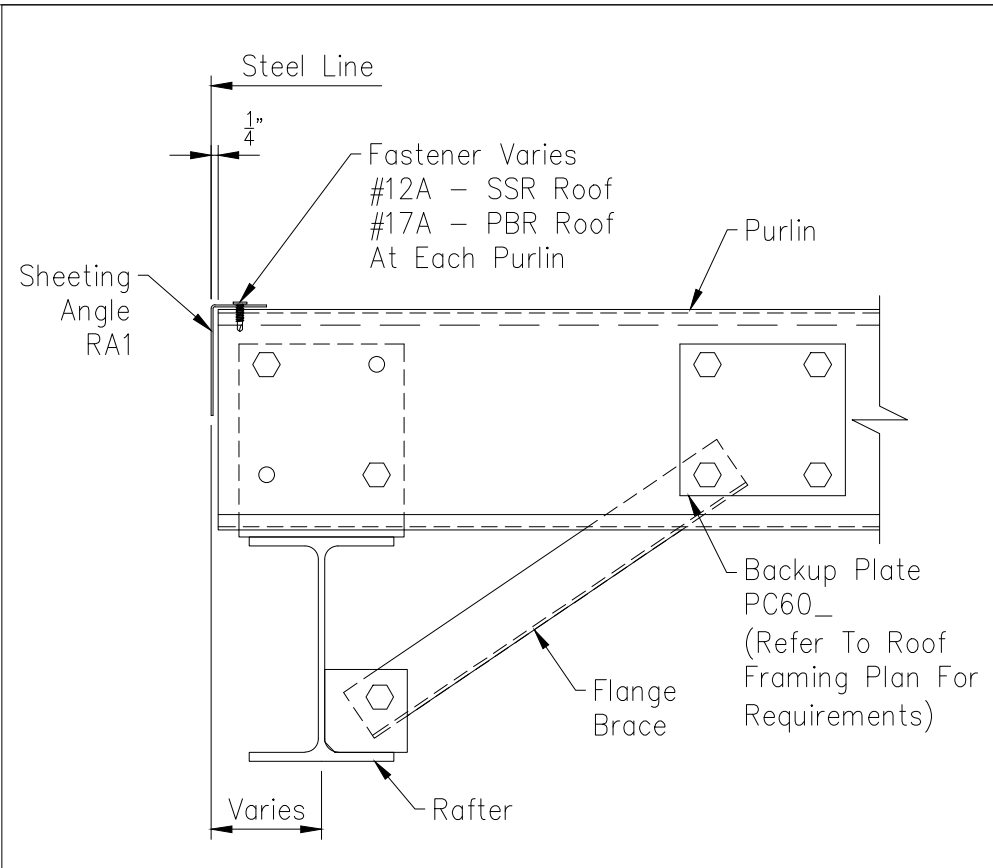
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A	4/17/23	FOR CONSTRUCTION PERMIT	MDB	SN	CM	 7301 FAIRVIEW, HOUSTON, TEXAS, P.O. BOX 40338 ZIP 77041 (713) 466-7788 ZIP 77240  PROJECT: JIM CRAWFORD CUSTOMER: STEEL ERECTION & MAINTENANCE OWNER: JIM CRAWFORD LOCATION: PRESCOTT, AZ 86301							
						CAD	DATE	SCALE	PHASE	BUILDING ID	JOB NUMBER	SHEET NUMBER	ISSUE
							4/17/23	N.T.S.	1	A	19-B-34172	E-9	0

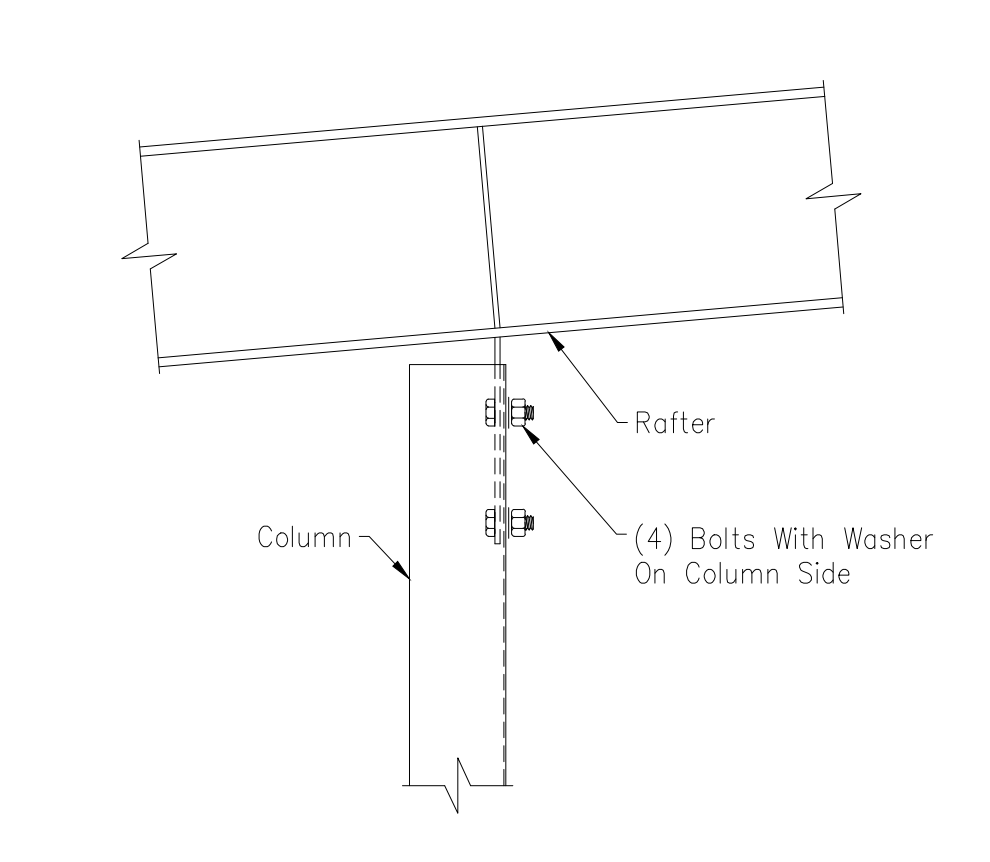
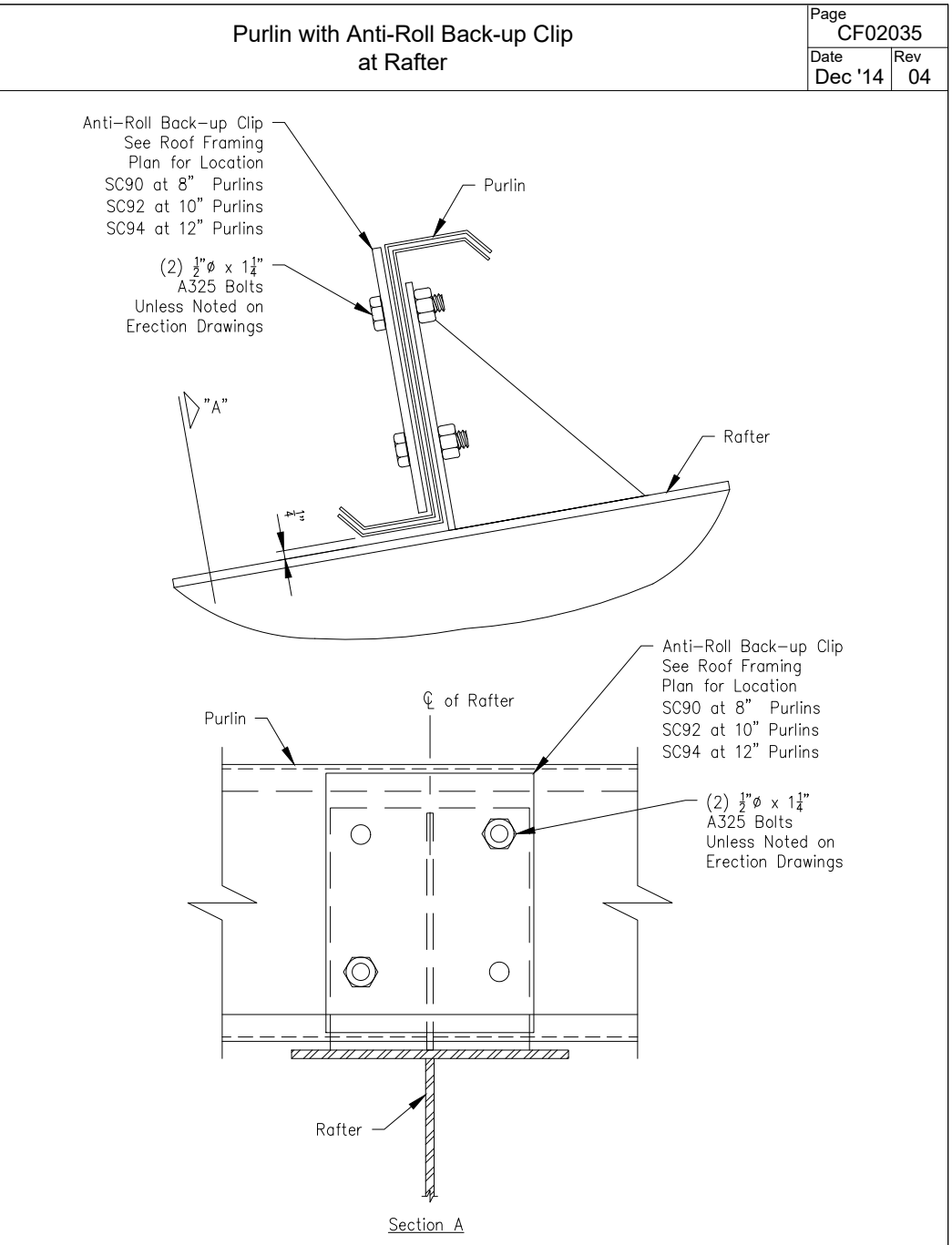




**A6** Purlin To Bearing Frame Double Cold Form Rafter  
 Date Jul '21  
 Rev 02  
 Page MB-A6



**A10** Purlin To Rigid Frame  
 Date Jul '21  
 Rev 02  
 Page MB-A10



**B4** Cold Form Endwall Column To Rafter  
 Date Aug '20  
 Rev 01  
 Page MB-B4

ISSUE	DATE	DESCRIPTION	BY	CK'D	DSN
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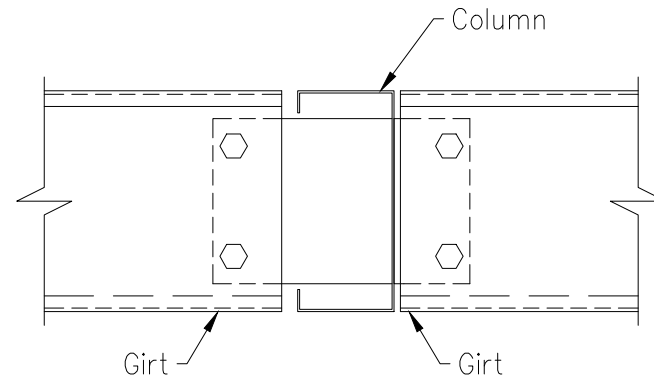
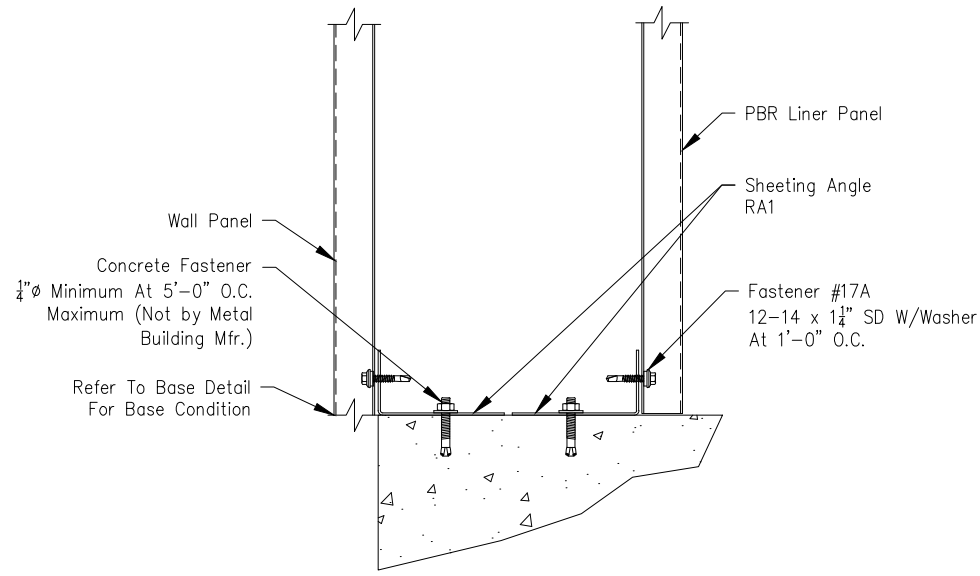
PROJECT: JIM CRAWFORD		OWNER: JIM CRAWFORD					
CUSTOMER: STEEL ERECTION & MAINTENANCE							
LOCATION: PRESCOTT, AZ 86301							
CAD	DATE	SCALE	PHASE	BUILDING ID	JOB NUMBER	SHEET NUMBER	ISSUE
	4/20/23	N.T.S.	1	A	19-B-34172	DET1	0

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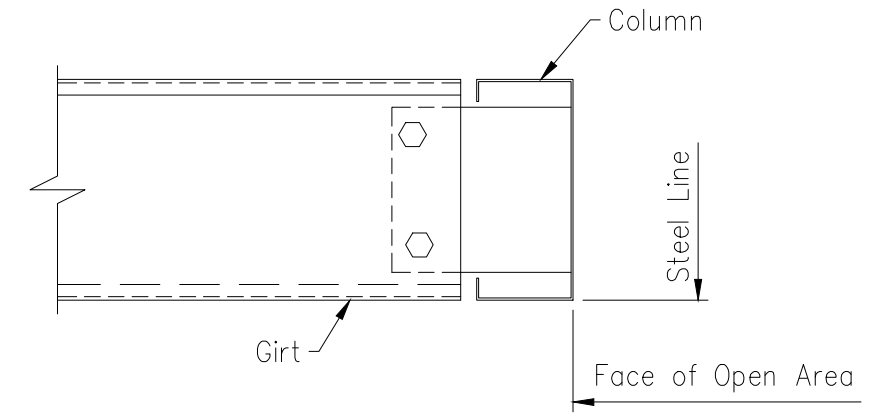


PBR Liner Panel  
Base With Double Sheeting Angles

Page RL02128  
Date Nov '19 Rev 01



C4	Girt To Cold Form Column	Date	Jun '17
Page MB-C4		Rev	00



C13	Girt To Cold Form Endwall Column - Partially Open	Date	Jun '17
Page MB-C13		Rev	00

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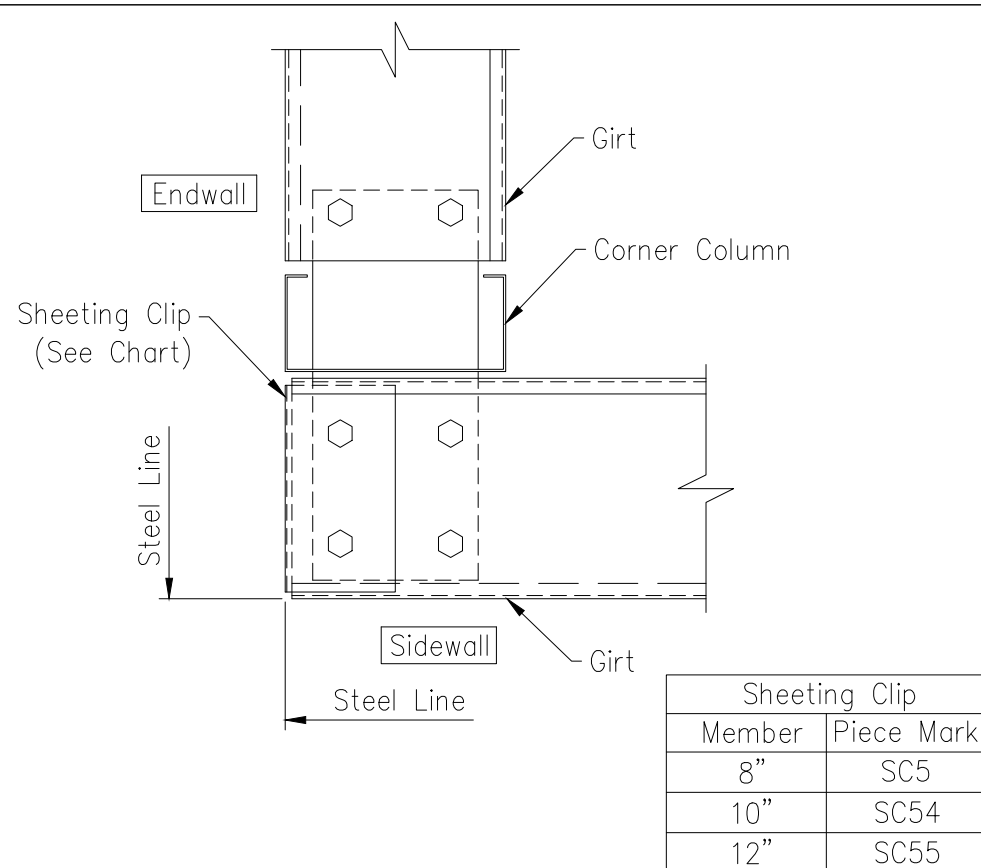
ISSUE	DATE	DESCRIPTION	BY	CK'D	DSN
0	4/20/23	FOR ERECTOR INSTALLATION	MDB	SN	CM



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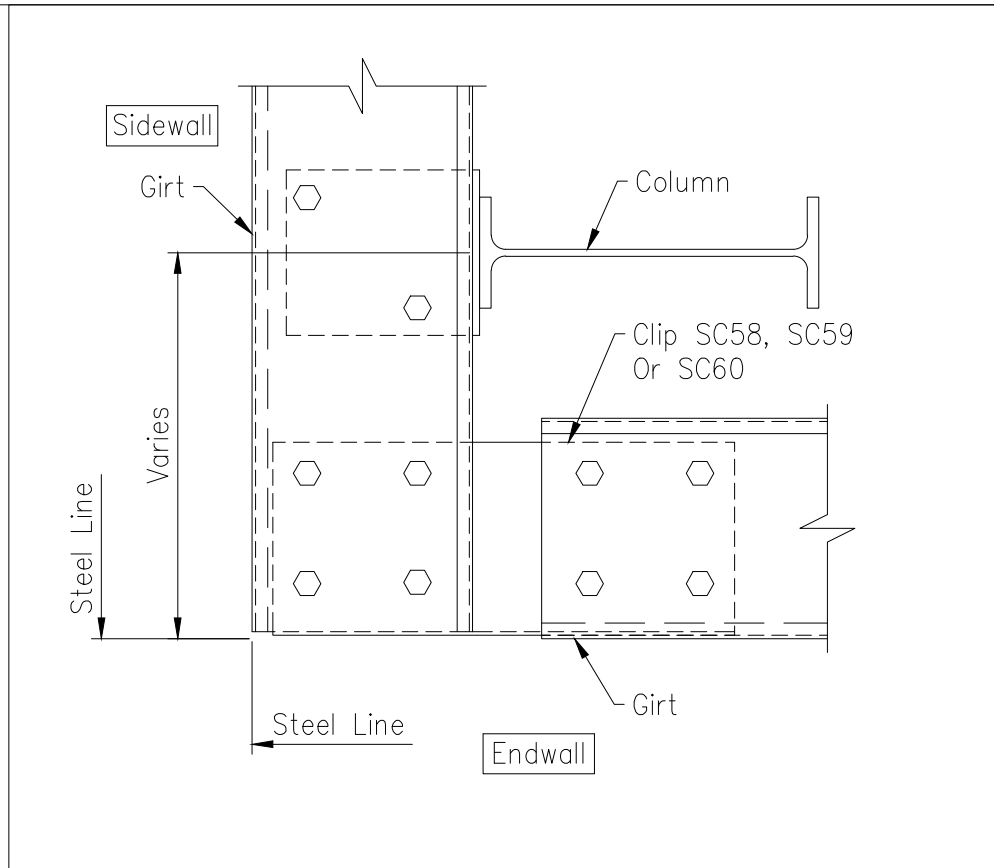
PROJECT:	JIM CRAWFORD						
CUSTOMER:	STEEL ERECTION & MAINTENANCE						
OWNER:	JIM CRAWFORD						
LOCATION:	PRESCOTT, AZ 86301						
CAD	DATE	SCALE	PHASE	BUILDING ID	JOB NUMBER	SHEET NUMBER	ISSUE
	4/20/23	N.T.S.	1	A	19-B-34172	DET2	0



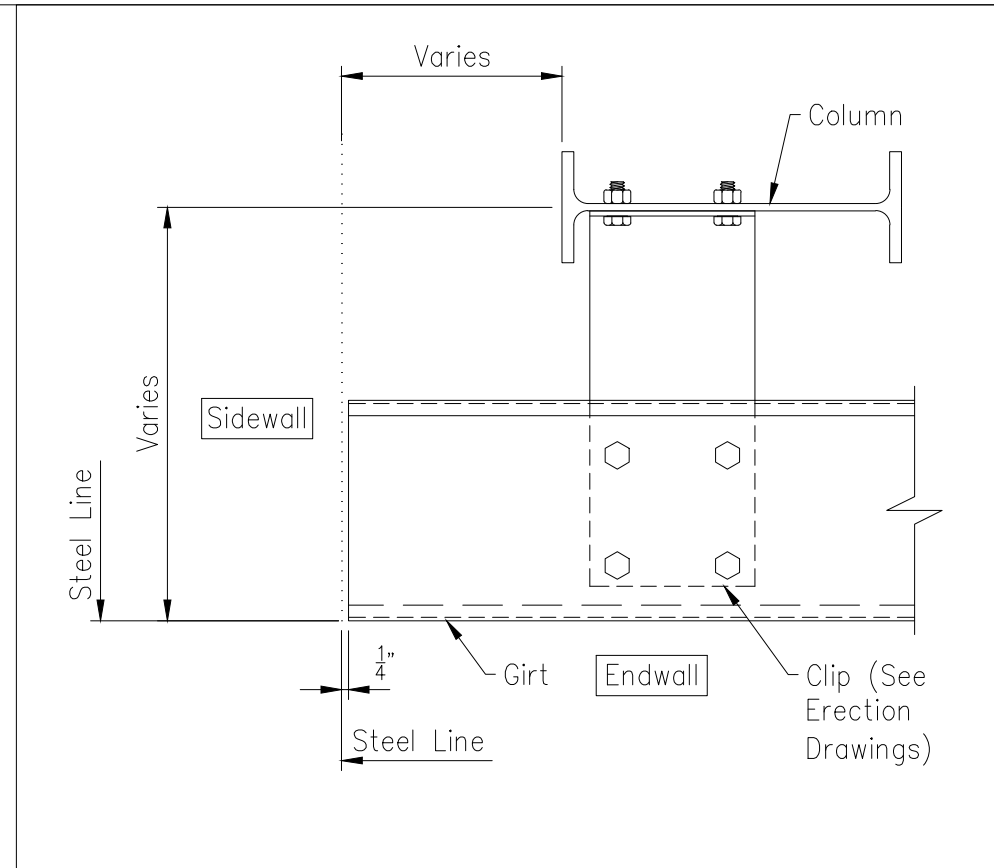


Sheeting Clip	
Member	Piece Mark
8"	SC5
10"	SC54
12"	SC55

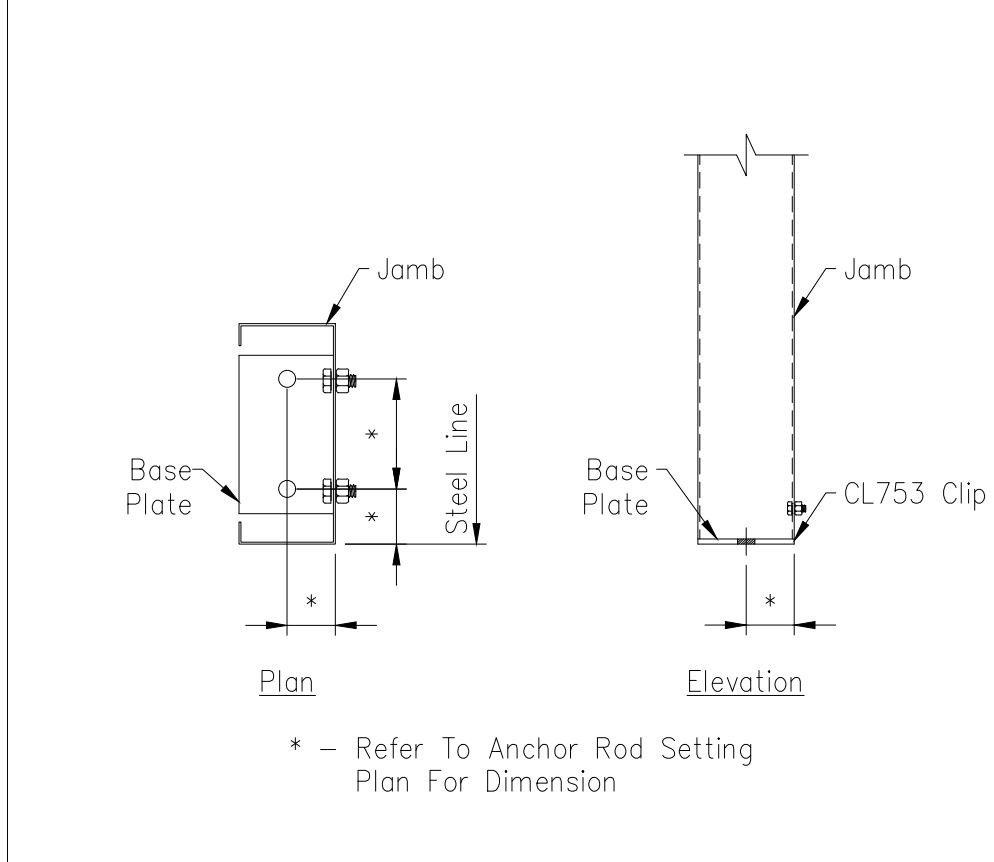
D4  
Page MB-D4  
Girt To Cold Form Corner Column  
Date Oct '19  
Rev 01



D16  
Page MB-D16  
Girt To Rigid Frame Endwall Column  
Date Jun '17  
Rev 00



D27  
Page MB-D27  
Girt To Rigid Frame Endwall Column  
Date Jun '17  
Rev 00



\* - Refer To Anchor Rod Setting Plan For Dimension

E6  
Page MB-E5  
Door Jamb Base Plate  
Date Dec '18  
Rev 01

ISSUE	DATE	DESCRIPTION	BY	CK'D	DSN
0	4/20/23	FOR ERECTOR INSTALLATION	MDB	SN	CM

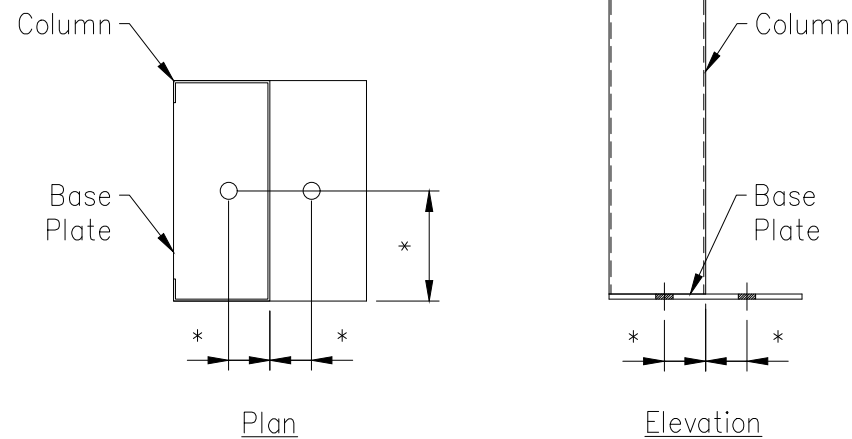


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CUSTOMER: STEEL ERECTION & MAINTENANCE							
LOCATION: PRESCOTT, AZ 86301							
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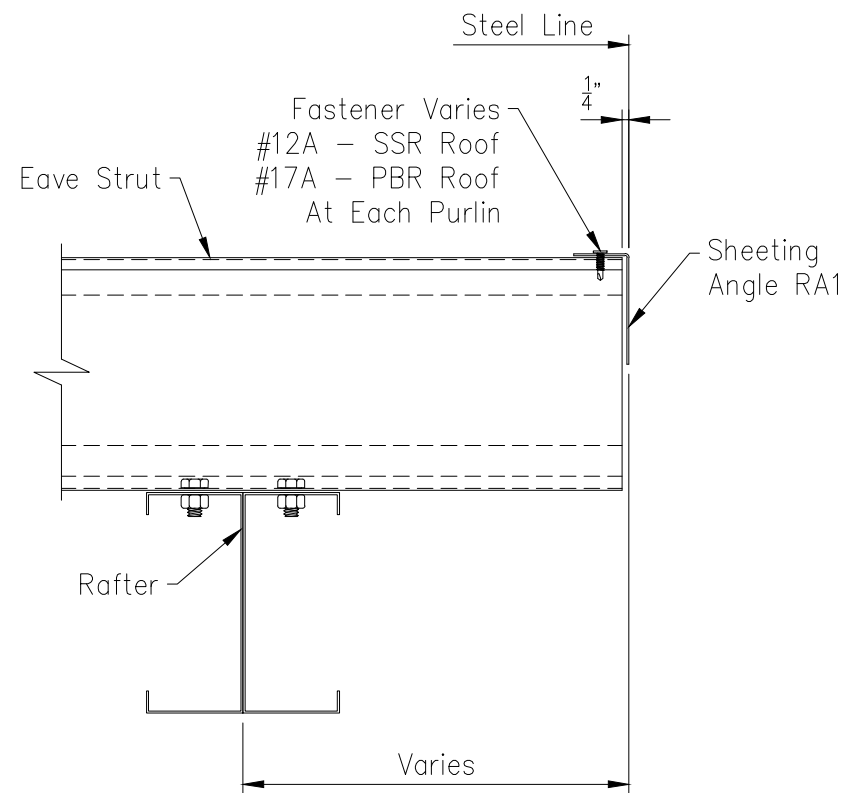
\* - Refer To Anchor Rod Setting Plan For Dimension

E8

Cold Form Endwall Column Base Plate

Date  
Dec '18  
Rev  
01

Page  
MB-E8

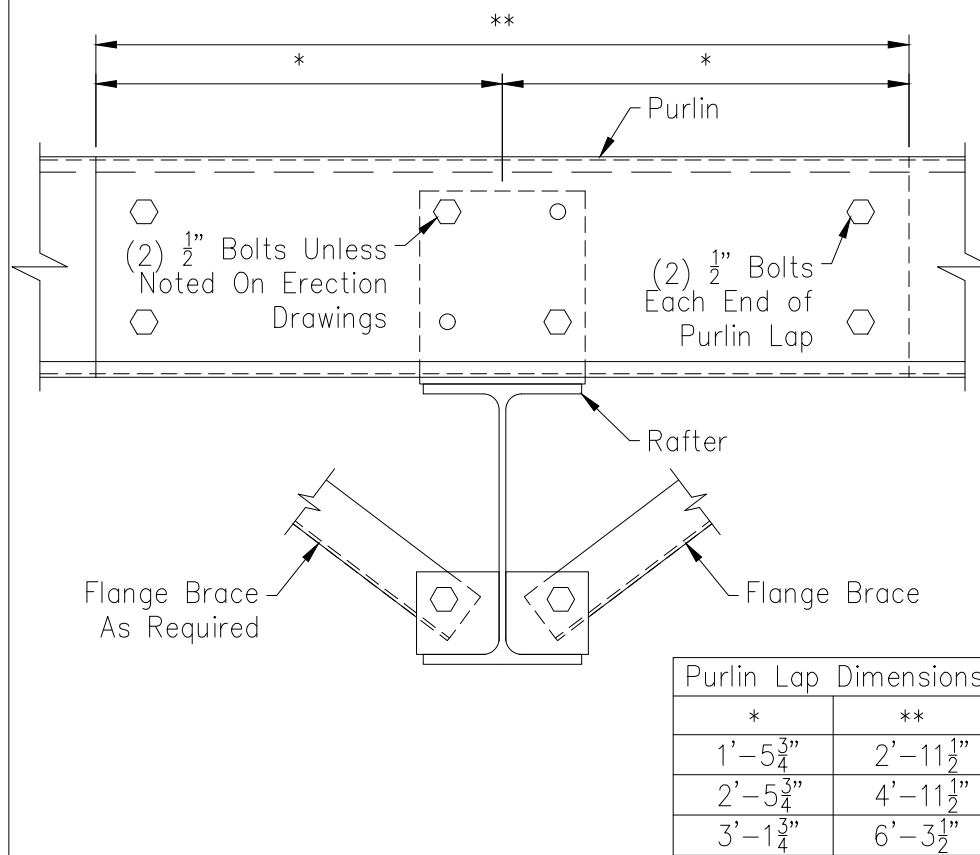


17

Low Side Eave Strut To Bearing Frame - Cold Form

Date  
Jun '17  
Rev  
00

Page  
MB-17



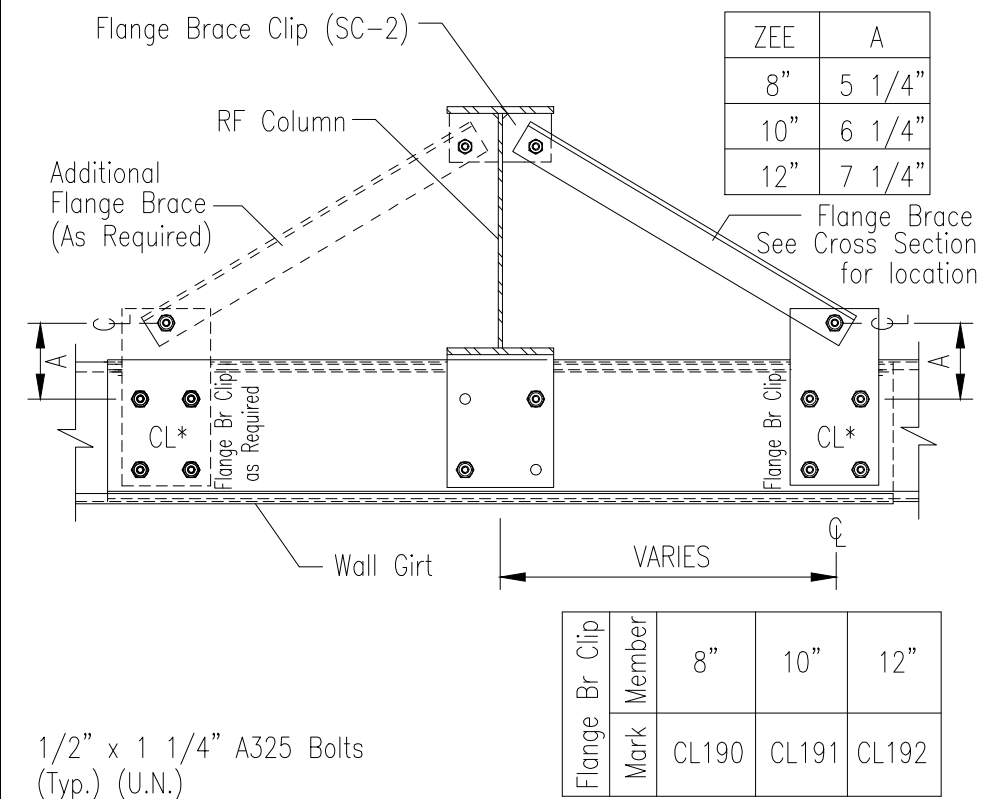
*	**
1'-5 3/4"	2'-11 1/2"
2'-5 3/4"	4'-11 1/2"
3'-1 3/4"	6'-3 1/2"

G2

Purlin To Rigid Frame

Date  
Sep '19  
Rev  
01

Page  
MB-G2



ZEE	A
8"	5 1/4"
10"	6 1/4"
12"	7 1/4"

Flange Br Clip Member	8"	10"	12"
Mark	CL190	CL191	CL192

1/2" x 1 1/4" A325 Bolts (Typ.) (U.N.)

H2

Wall Girt To Rigid Frame

Date  
Sep '19  
Rev  
01

Page  
MB-H2

ISSUE	DATE	DESCRIPTION	BY	CK'D	DSN
0	4/20/23	FOR ERECTOR INSTALLATION	MDB	SN	CM

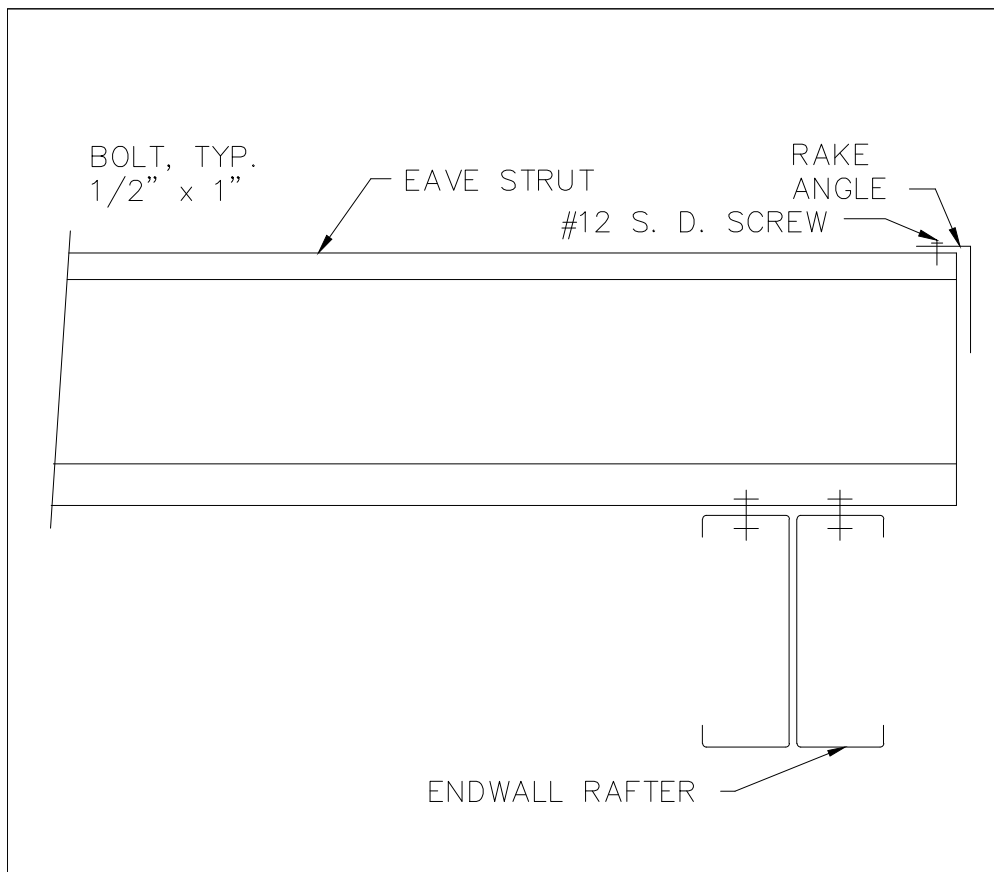


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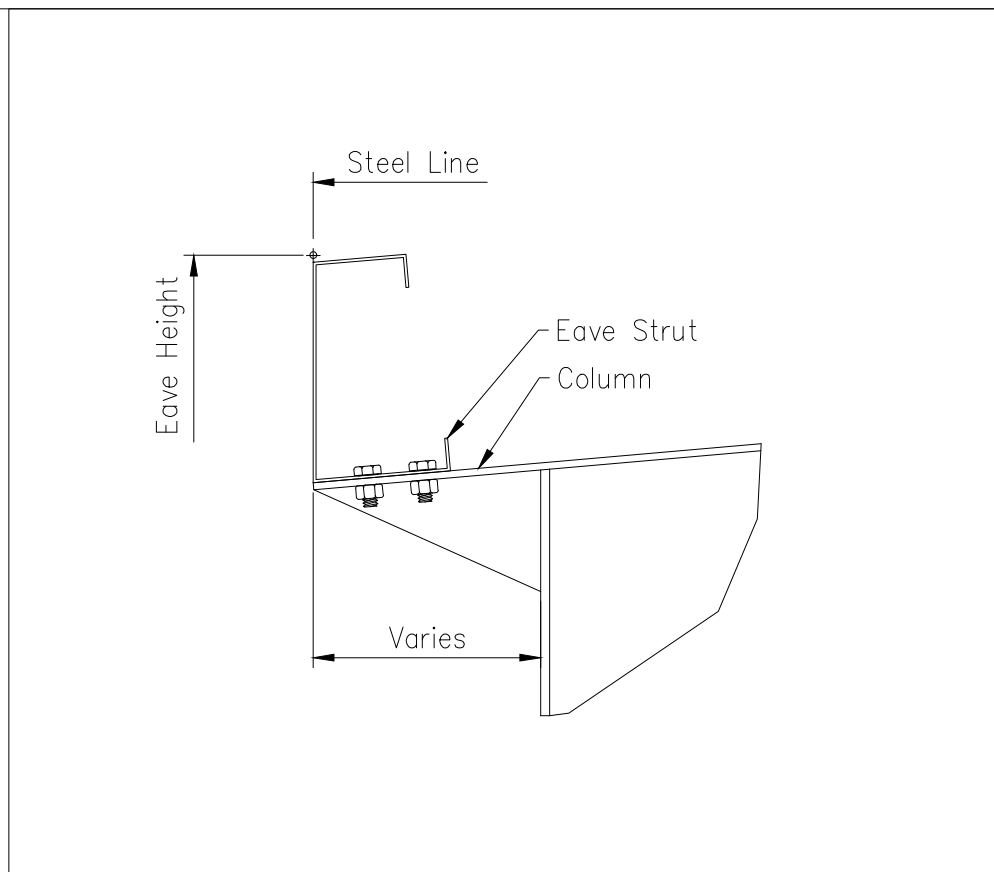
PROJECT: JIM CRAWFORD		OWNER: JIM CRAWFORD					
CUSTOMER: STEEL ERECTION & MAINTENANCE							
LOCATION: PRESCOTT, AZ 86301							
CAD	DATE	SCALE	PHASE	BUILDING ID	JOB NUMBER	SHEET NUMBER	ISSUE
	4/20/23	N.T.S.	1	A	19-B-34172	DET4	0

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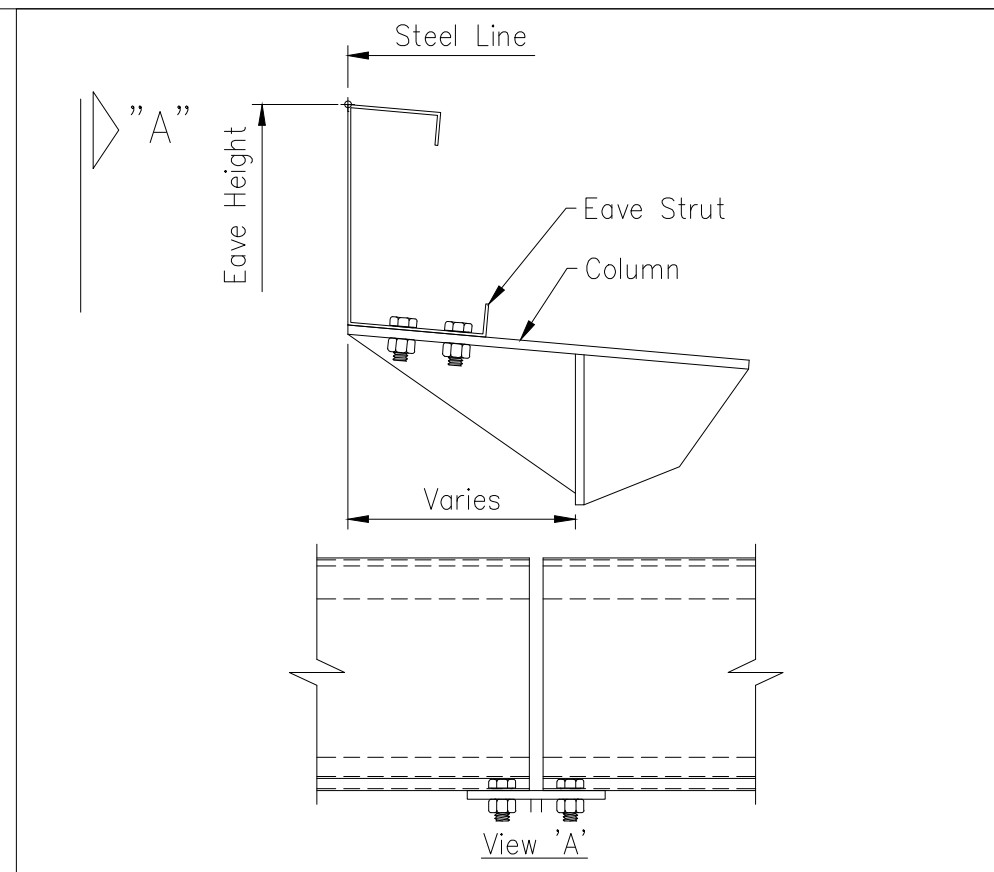




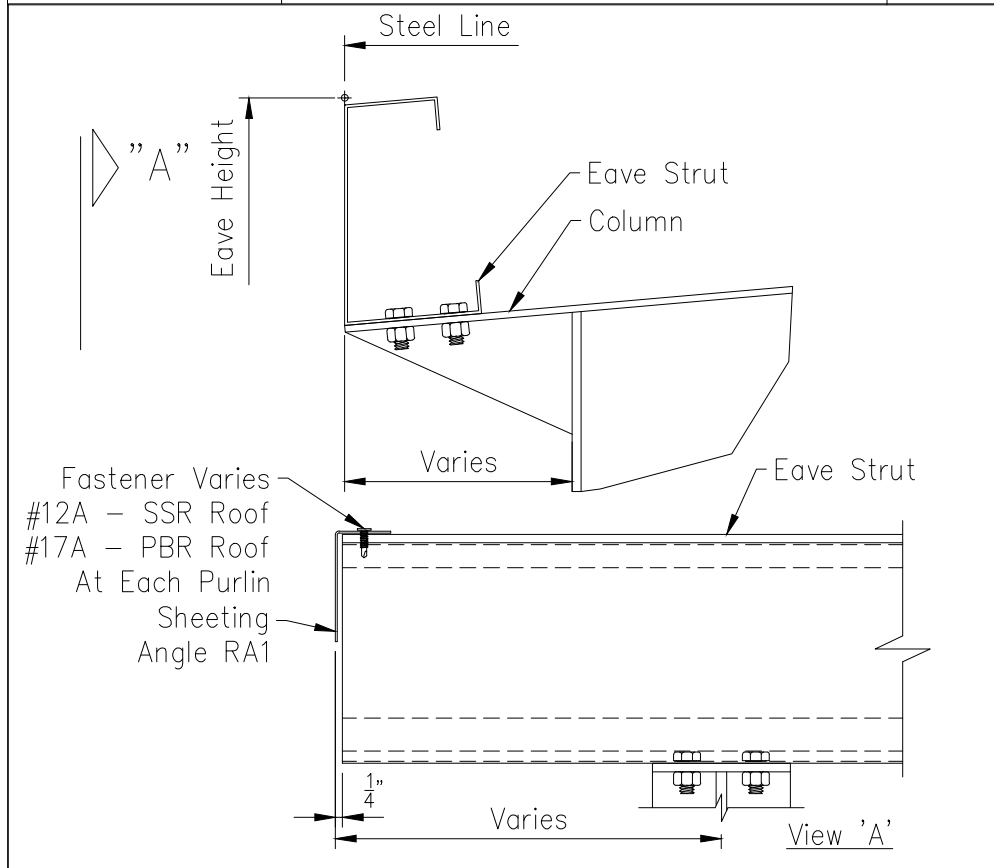
118 High Eave Strut To Endwall Rafter  
 Date Oct '22  
 Rev 00



J2 Eave Strut To By-Pass Rigid Frame At Interior  
 Date Dec '17  
 Rev 00



J8 Eave Strut To By-Pass Rigid Frame At Interior  
 Date Jun '17  
 Rev 00



J24 Eave Strut To By-Pass Rigid Frame At Endwall  
 Date Jun '17  
 Rev 00

ISSUE	DATE	DESCRIPTION	BY	CK'D	DSN
0	4/20/23	FOR ERECTOR INSTALLATION	MDB	SN	CM



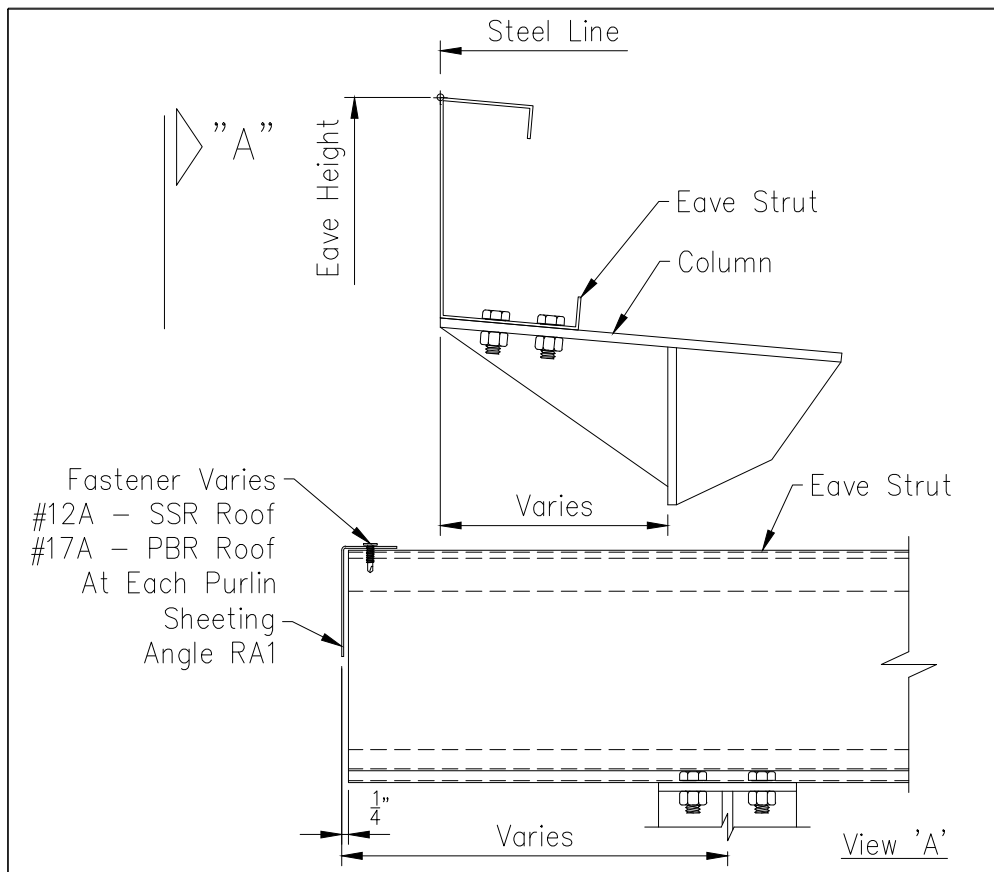
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PROJECT: JIM CRAWFORD		OWNER: JIM CRAWFORD	
CUSTOMER: STEEL ERECTION & MAINTENANCE			
LOCATION: PRESCOTT, AZ 86301			
CAD	DATE	SCALE	PHASE
	4/20/23	N.T.S.	1
BUILDING ID	JOB NUMBER	SHEET NUMBER	ISSUE
A	19-B-34172	DET5	0

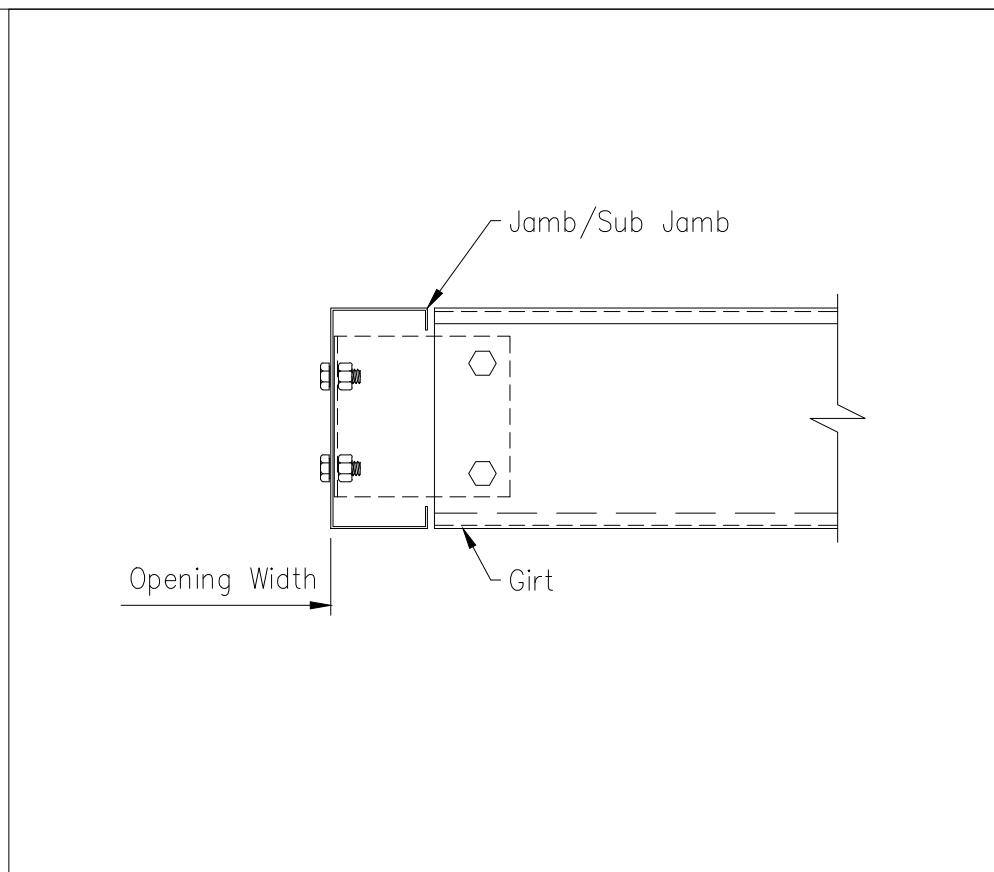
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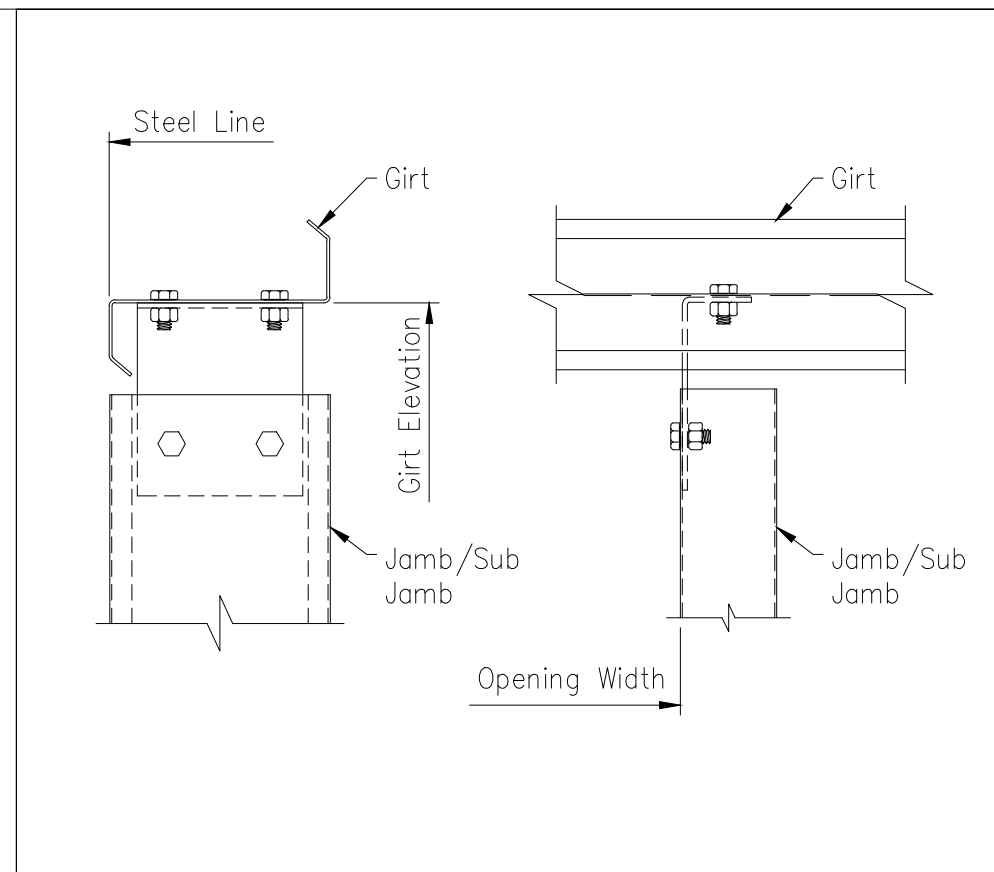




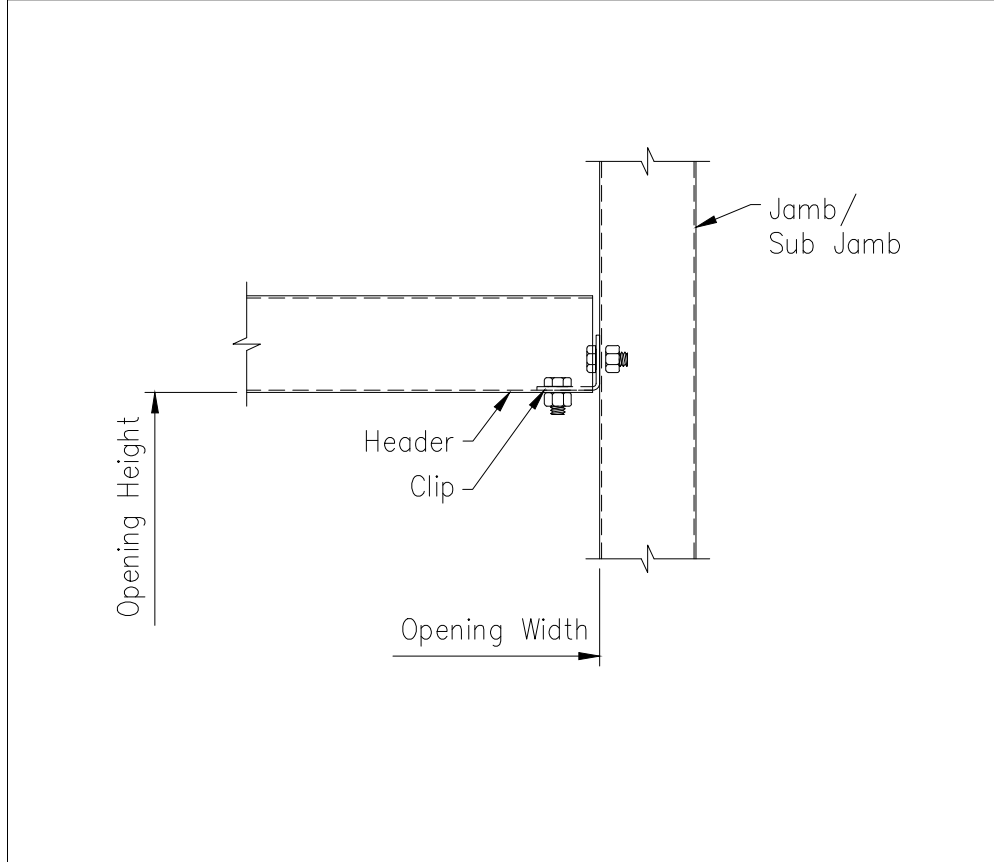
J26	Eave Strut To By-Pass Rigid Frame At Endwall	Date Jun '17
Page MB-J26		Rev 00



K3X	Girt To Single Cold Form Jamb/Sub Jamb	Date Dec '17
Page MB-K3		Rev 00



L6X	Single Cold Form Jamb/Sub Jamb To Girt	Date Jun '17
Page MB-L8		Rev 00



M3X	Header To Cold Form Jamb/Sub Jamb	Date Dec '17
Page MB-M3		Rev 00

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CUSTOMER: STEEL ERECTION & MAINTENANCE							
LOCATION: PRESCOTT, AZ 86301							
CAD	DATE	SCALE	PHASE	BUILDING ID	JOB NUMBER	SHEET NUMBER	ISSUE
	4/20/23	N.T.S.	1	A	19-B-34172	DET6	0

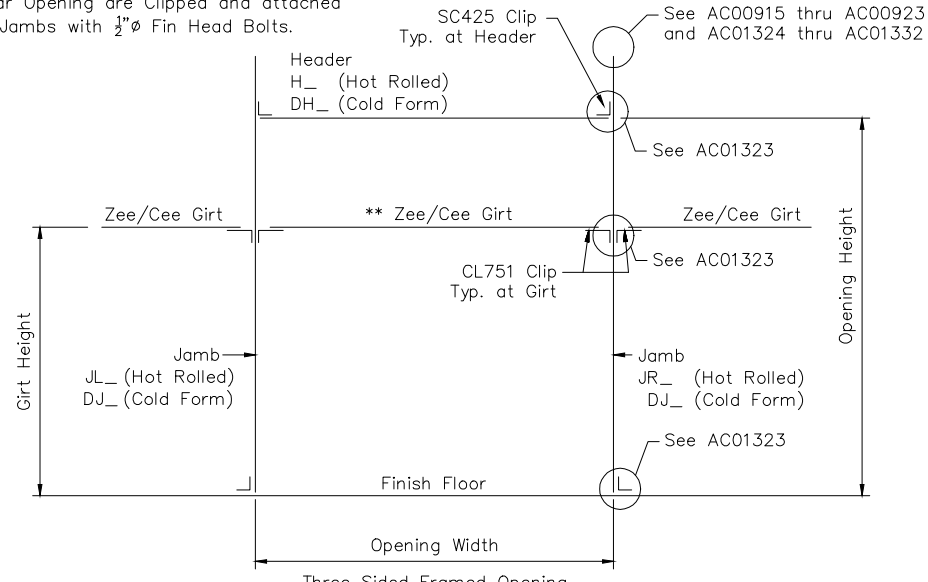
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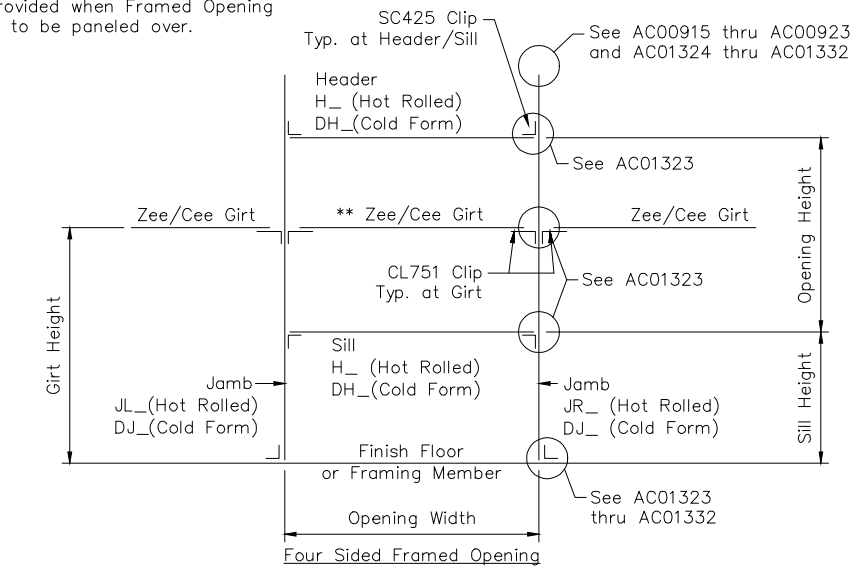
**Bolted Clips - Framed Opening Connections - Cold Form and Hot Rolled Cee - Three and Four Sided Openings**

Page AC01320  
Date May '19 Rev 03

Note: All Horizontal Members within clear Opening are Clipped and attached to Jamb with 1/2" Fin Head Bolts.



\*\* Girt within opening is provided when Framed Opening is to be paneled over.



**Bolted Clips - Framed Opening Connections - Three and Four Sided Openings - Girt Header**

Page AC01322  
Date Apr '20 Rev 05

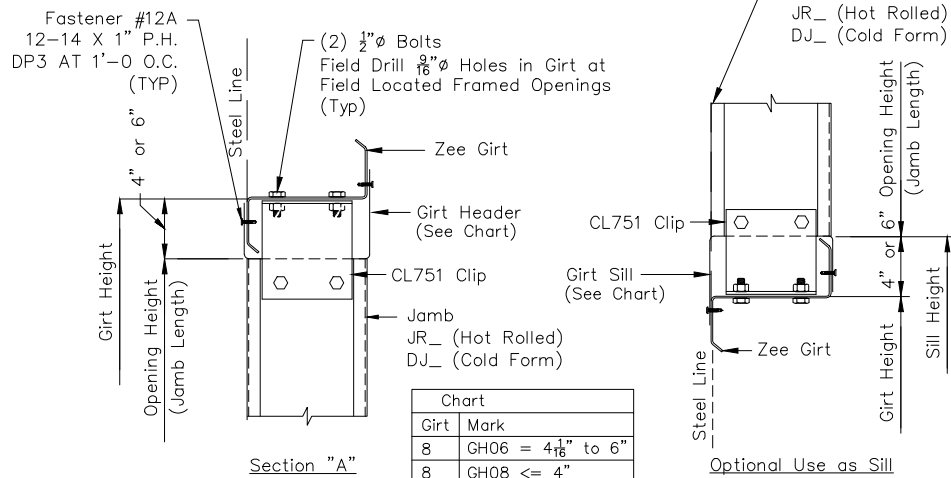
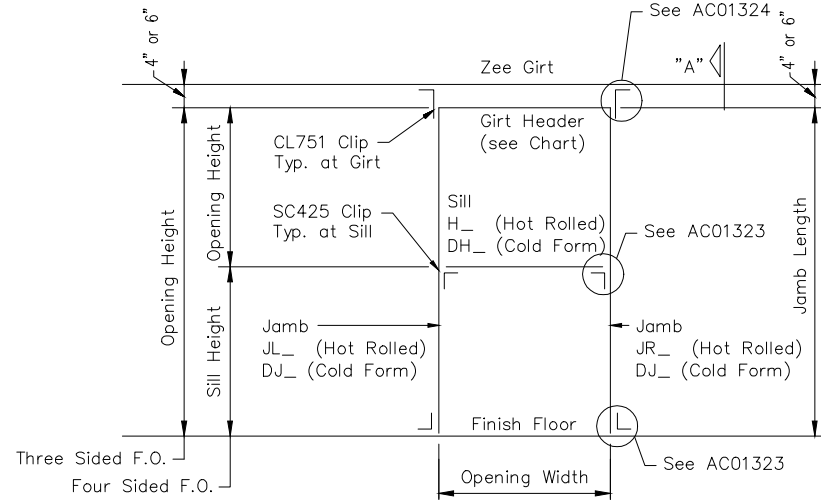
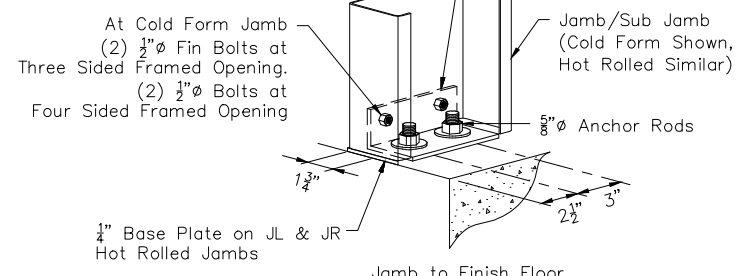
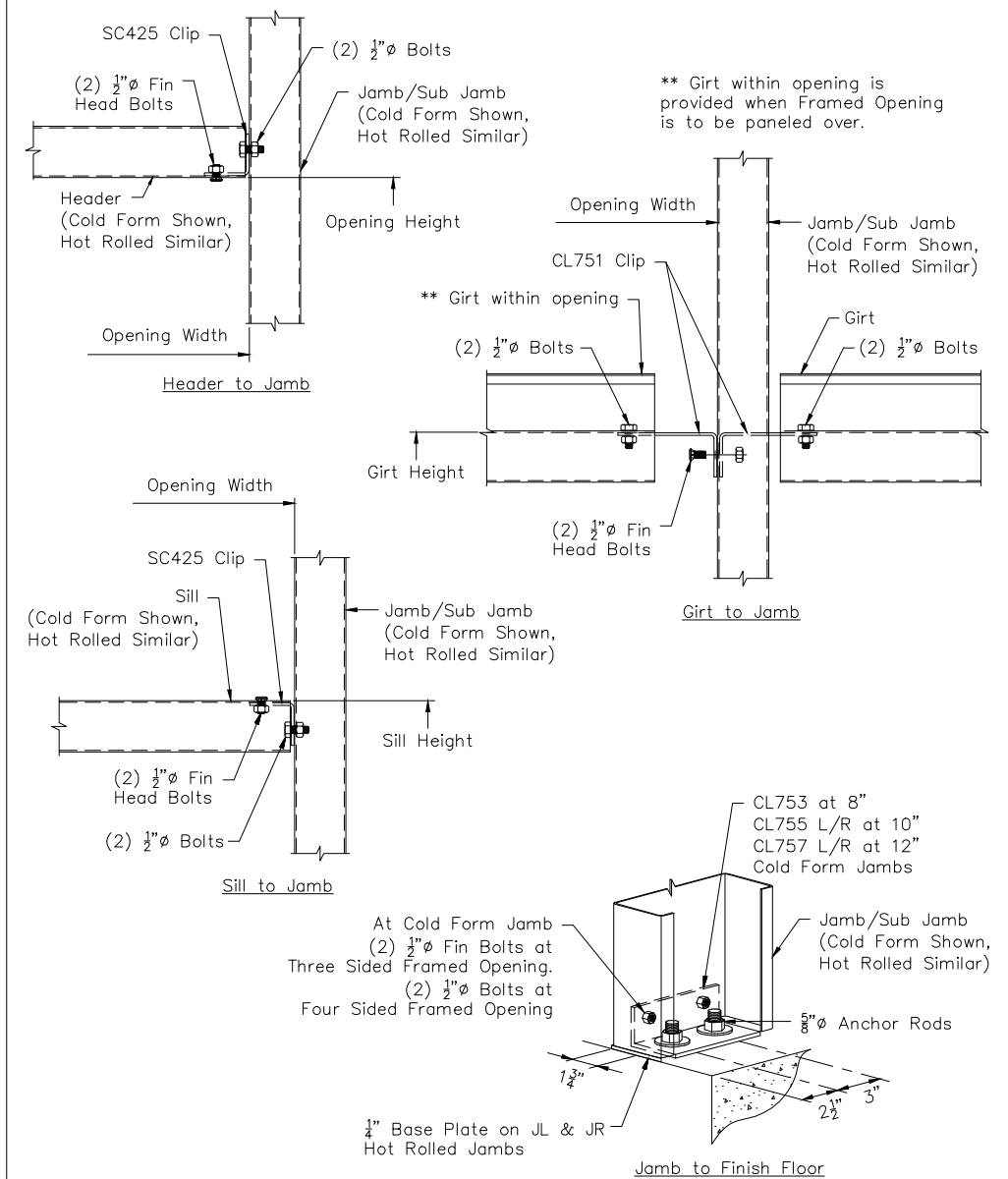


Chart	
Girt	Mark
8	GH06 = 4 1/8" to 6"
8	GH08 <= 4"
10	GH10
12	GH12

**Bolted Clips - Framed Opening Connections - Cold Form and Hot Rolled Base, Girt, Header, and Sill to Jamb**

Page AC01323  
Date May '19 Rev 03



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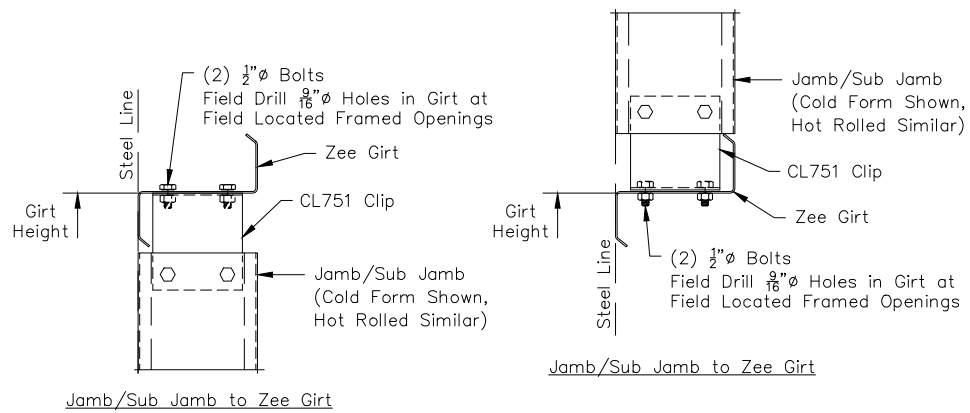
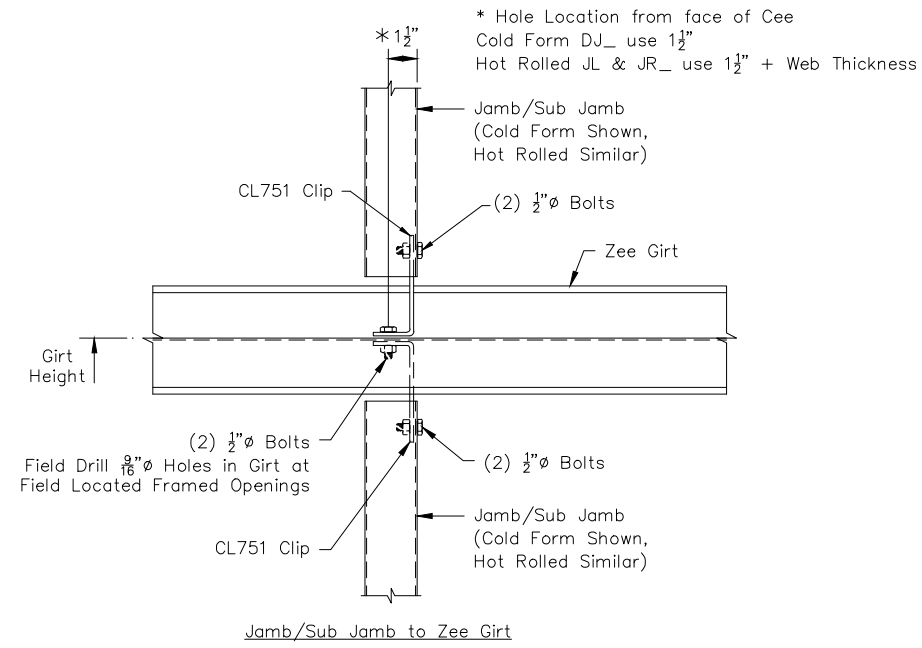
7301 FAIRVIEW, HOUSTON, TEXAS, P.O. BOX 40338  
ZIP 77041 (713) 466-7788 ZIP 77240

PROJECT:	JIM CRAWFORD						
CUSTOMER:	STEEL ERECTION & MAINTENANCE						
OWNER:	JIM CRAWFORD						
LOCATION:	PRESCOTT, AZ 86301						
CAD	DATE	SCALE	PHASE	BUILDING ID	JOB NUMBER	SHEET NUMBER	ISSUE
	4/20/23	N.T.S.	1	A	19-B-34172	DET7	0

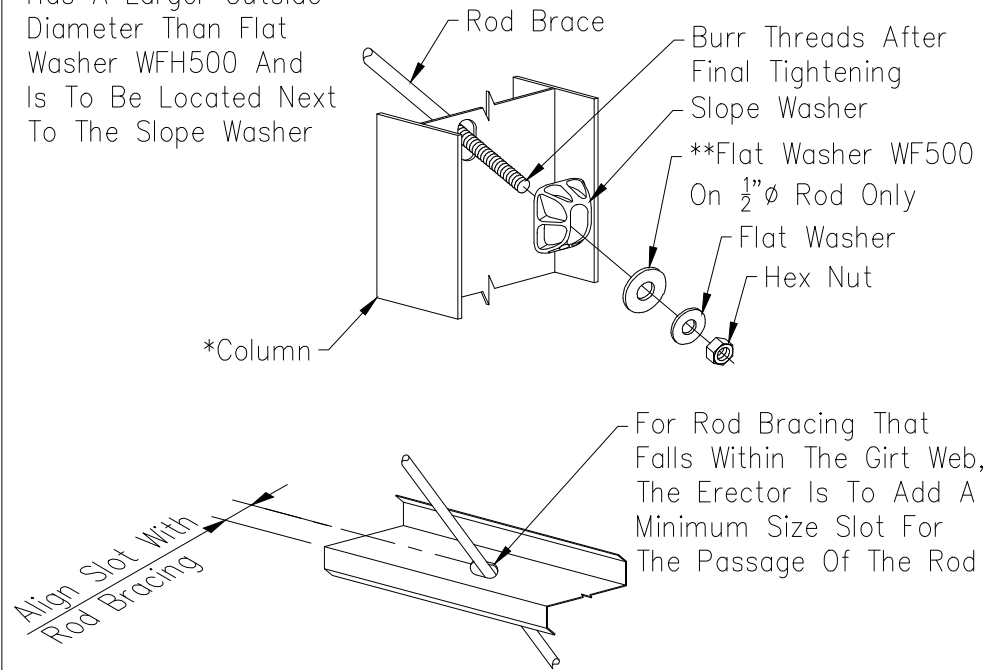


**Bolted Clips - Framed Opening Connections - Cold Form and Hot Rolled  
Jamb/Sub Jamb to Zee Girt**

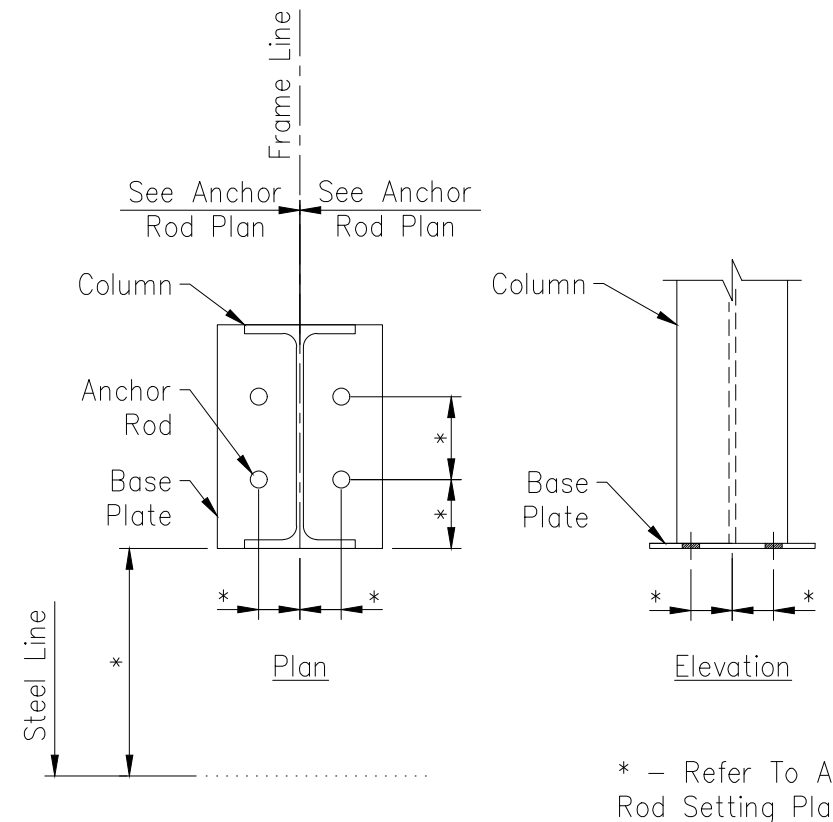
Page AC01324  
Date May '19 Rev 01



\* Similar Connection at Rafter  
\*\* Flat Washer WF500 Has A Larger Outside Diameter Than Flat Washer WFH500 And Is To Be Located Next To The Slope Washer



Q3	Rod Brace Attachment At Web	Date Mar '18
Page MB-Q3		Rev 01



R2	Anchor Rods At Frame Column	Date Dec '17
Page MB-R2		Rev 00

ISSUE	DATE	DESCRIPTION	BY	CK'D	DSN
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7301 FAIRVIEW, HOUSTON, TEXAS, P.O. BOX 40338  
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PROJECT:	JIM CRAWFORD						
CUSTOMER:	STEEL ERECTION & MAINTENANCE						
OWNER:	JIM CRAWFORD						
LOCATION:	PRESCOTT, AZ 86301						
CAD	DATE	SCALE	PHASE	BUILDING ID	JOB NUMBER	SHEET NUMBER	ISSUE
	4/20/23	N.T.S.	1	A	19-B-34172	DET8	0

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Expires 06/30/2024

Screw Application

Page TH06006  
Date May '19 Rev 01

Standard Grade

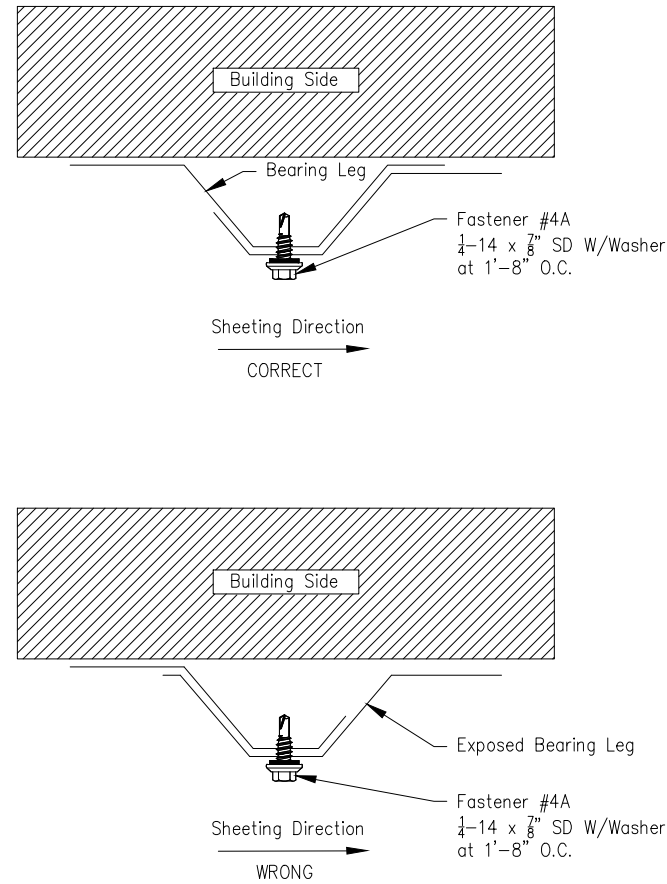
Description	Fastener Number	Application
1/4"-14 x 7/8" Type 2	4A	Stitch & Trim Screw
12-14 x 1 1/4" Type 2	17A	Member Screw (Up To 4" Insulation)
12-14 x 1 1/2" Type 2	17B	Member Screw (Up To 6" Insulation)

Long Life

Description	Fastener Number	Application
1/4"-14 x 7/8" Type 1	4	Stitch & Trim Screw
12-14 x 1 1/4" Type 2	3	Member Screw (Up To 4" Insulation)
12-14 x 1 1/2" Type 2	3A	Member Screw (Up To 6" Insulation)

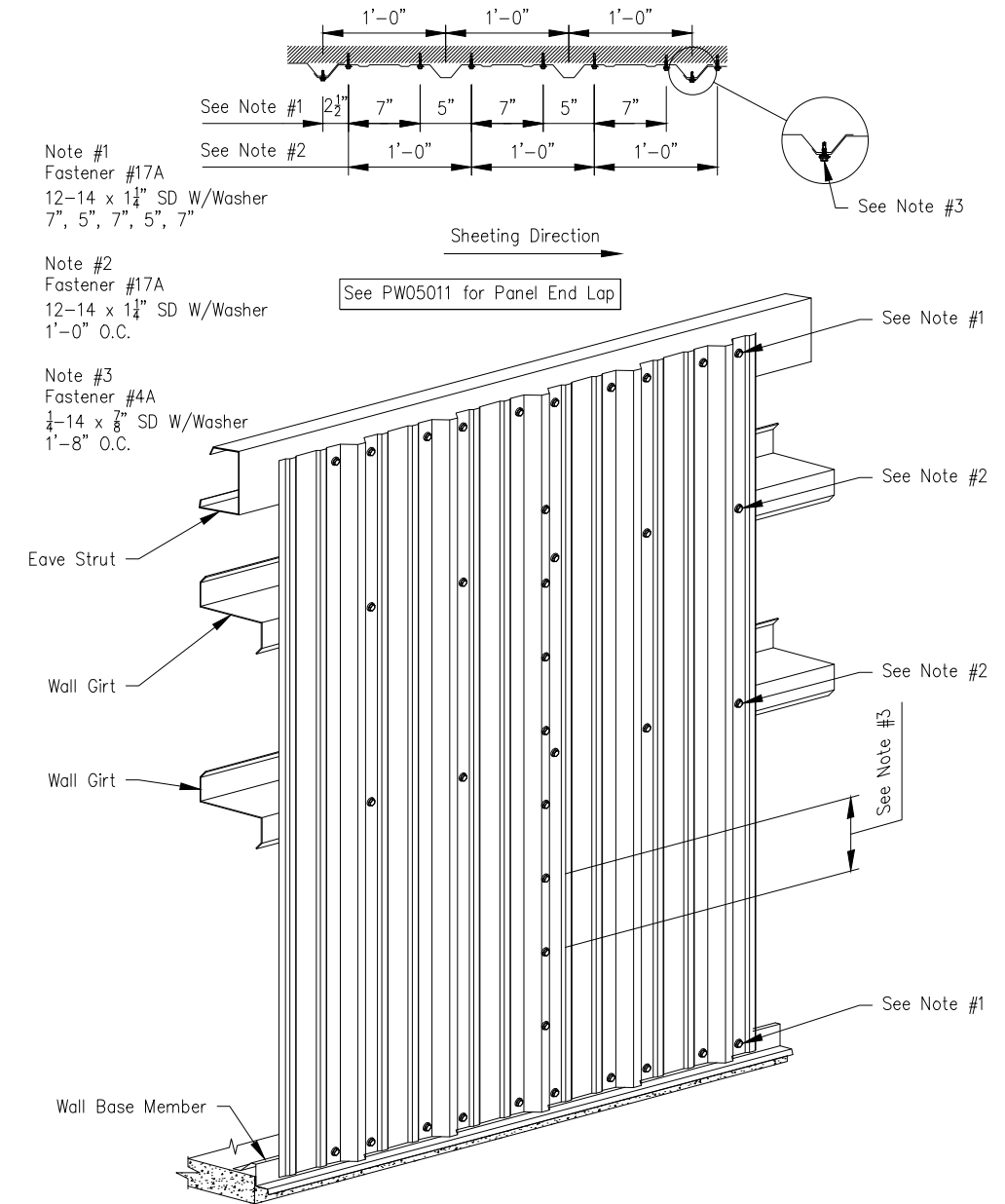
PBR Wall Panel  
Panel Side Lap

Page PW05002  
Date Mar '19 Rev 03



PBR Wall Panel  
Fastener Location

Page PW05003  
Date Aug '15 Rev 04



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ZIP 77041 (713) 466-7788 ZIP 77240

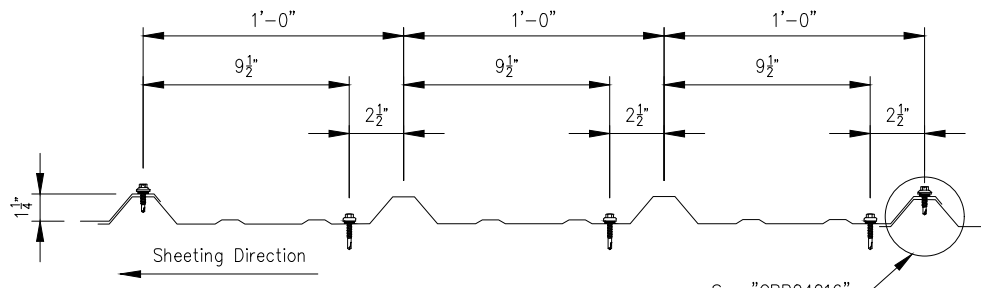
PROJECT:	JIM CRAWFORD						
CUSTOMER:	STEEL ERECTION & MAINTENANCE						
OWNER:	JIM CRAWFORD						
LOCATION:	PRESCOTT, AZ 86301						
CAD	DATE	SCALE	PHASE	BUILDING ID	JOB NUMBER	SHEET NUMBER	ISSUE
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Expires 06/30/2024

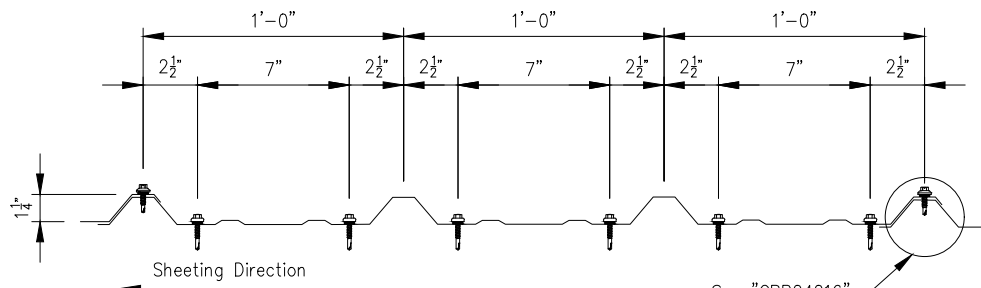
PBR Roof Panel  
Fastener And Tape Sealant Location

Page  
GPR00011  
Date  
Apr '19  
Rev  
01



See "GPR04016"

All Roof Members Except As Noted Below



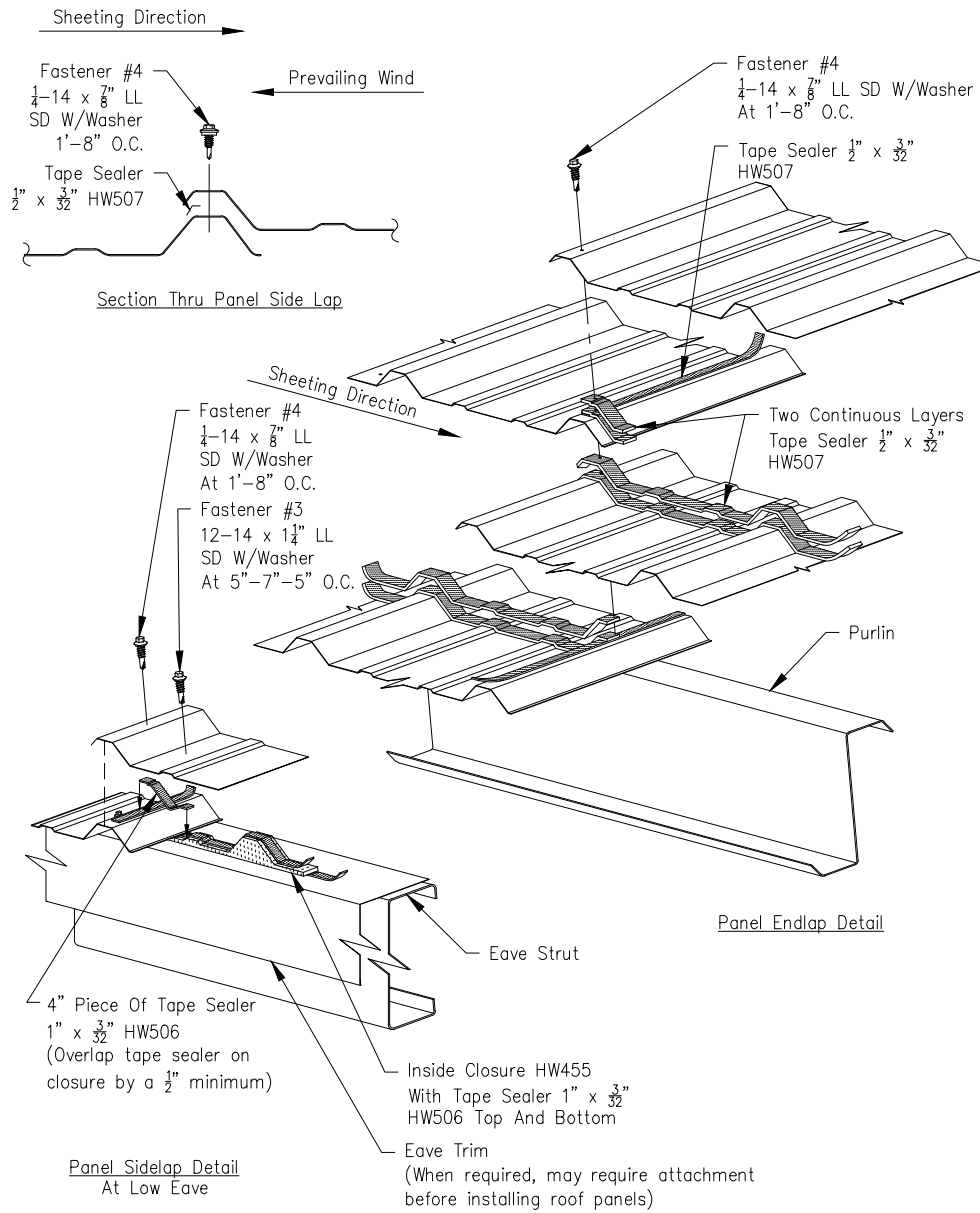
See "GPR04016"

At Eave Strut, Panel End Lap And Peak Purlin

Note:  
Screw patterns shown satisfy U.L. 90  
requirements for roof.

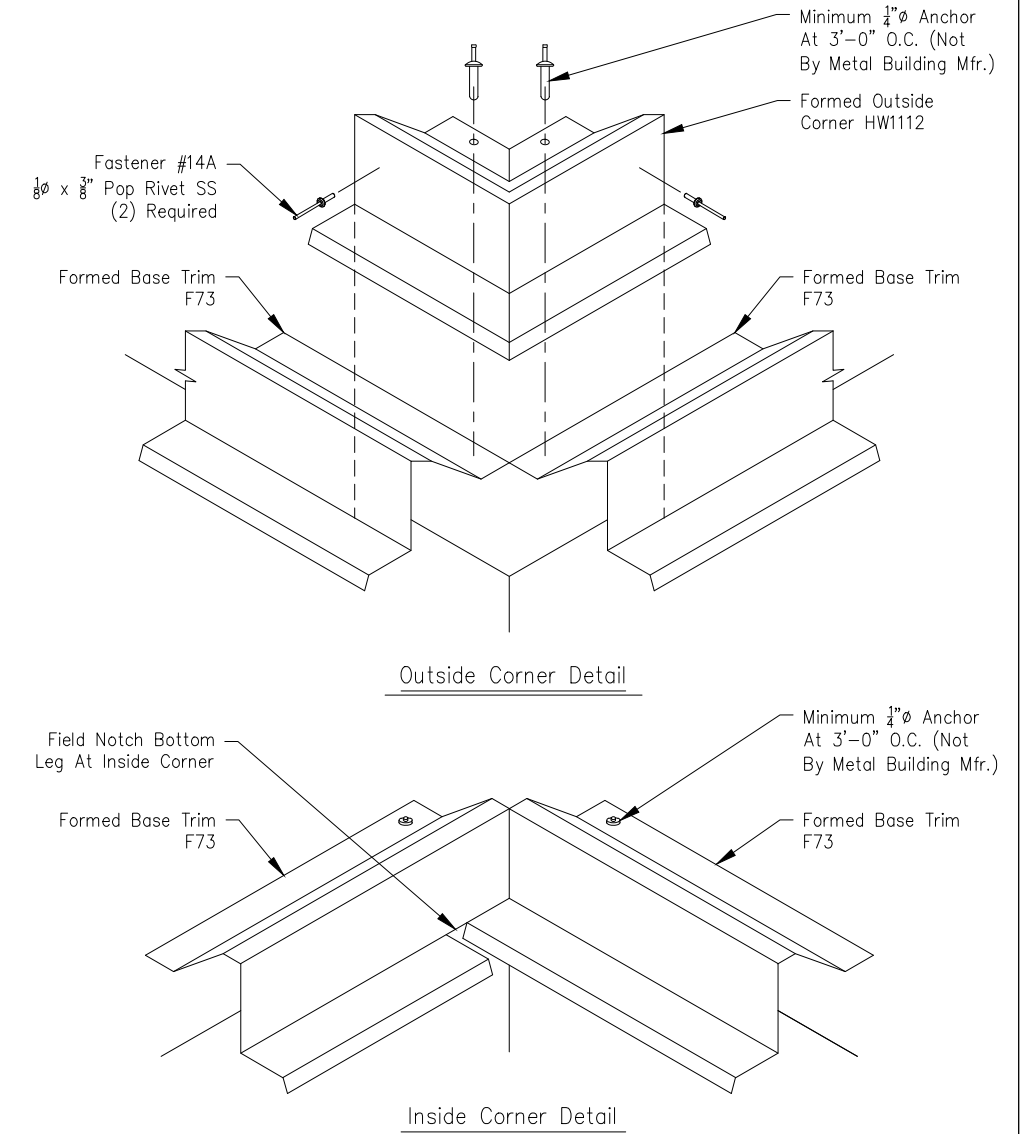
PBR Roof Panel  
Side Lap And End Lap Details

Page  
GPR04016  
Date  
Apr '19  
Rev  
04



Formed Base Trim Details

Page  
PW02010  
Date  
Feb '18  
Rev  
01



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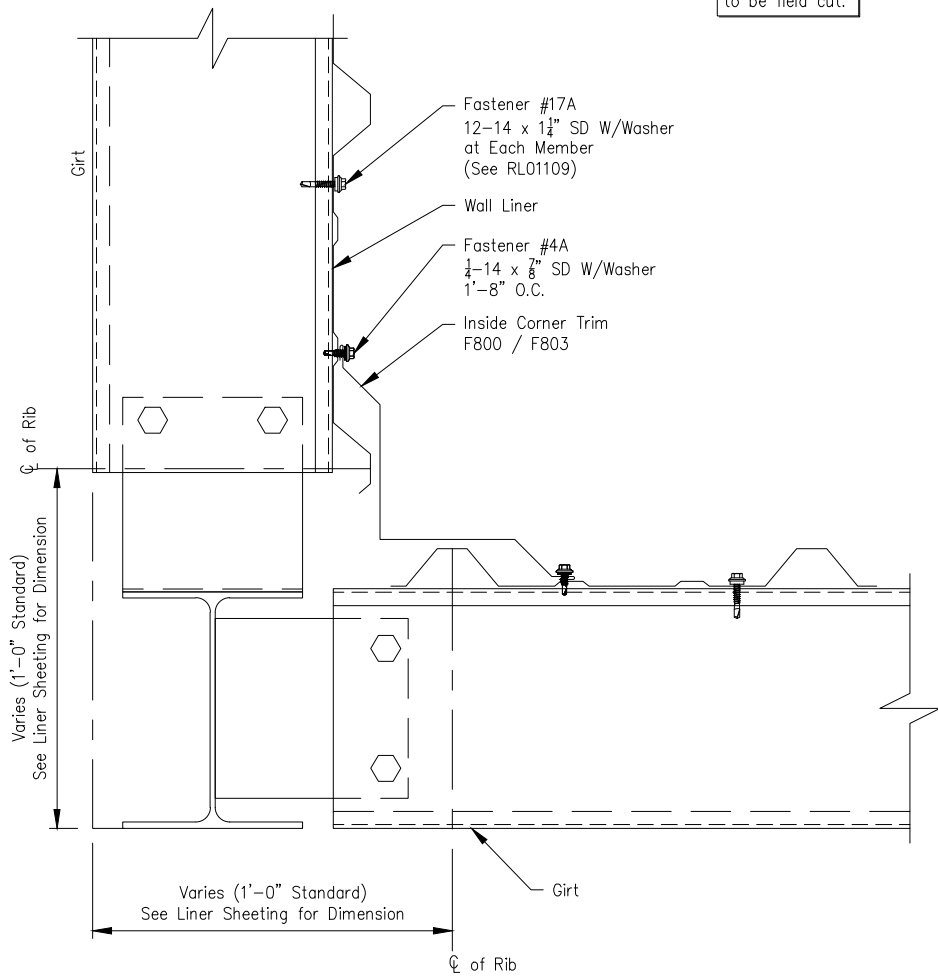
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CUSTOMER: STEEL ERECTION & MAINTENANCE			
LOCATION: PRESCOTT, AZ 86301			
CAD	DATE	SCALE	PHASE
	4/20/23	N.T.S.	1
BUILDING ID	JOB NUMBER	SHEET NUMBER	ISSUE
A	19-B-34172	DET10	0



PBR Wall Liner  
Flush Endwall

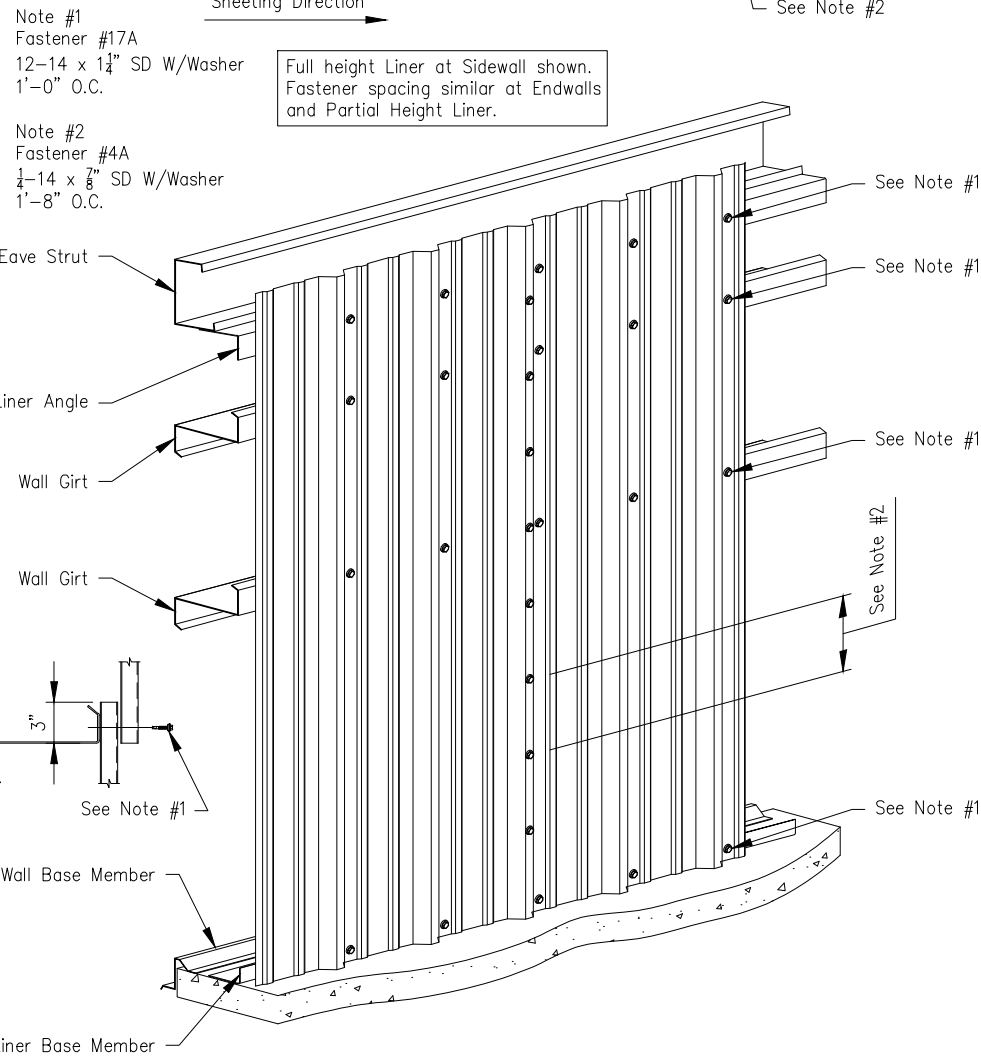
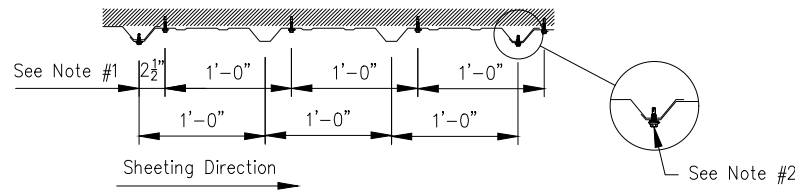
Page  
RL01117  
Date  
Aug '15  
Rev  
01

Liner panels are  
to be field cut.



PBR Wall Liner  
Fastener Location - Non-Windward

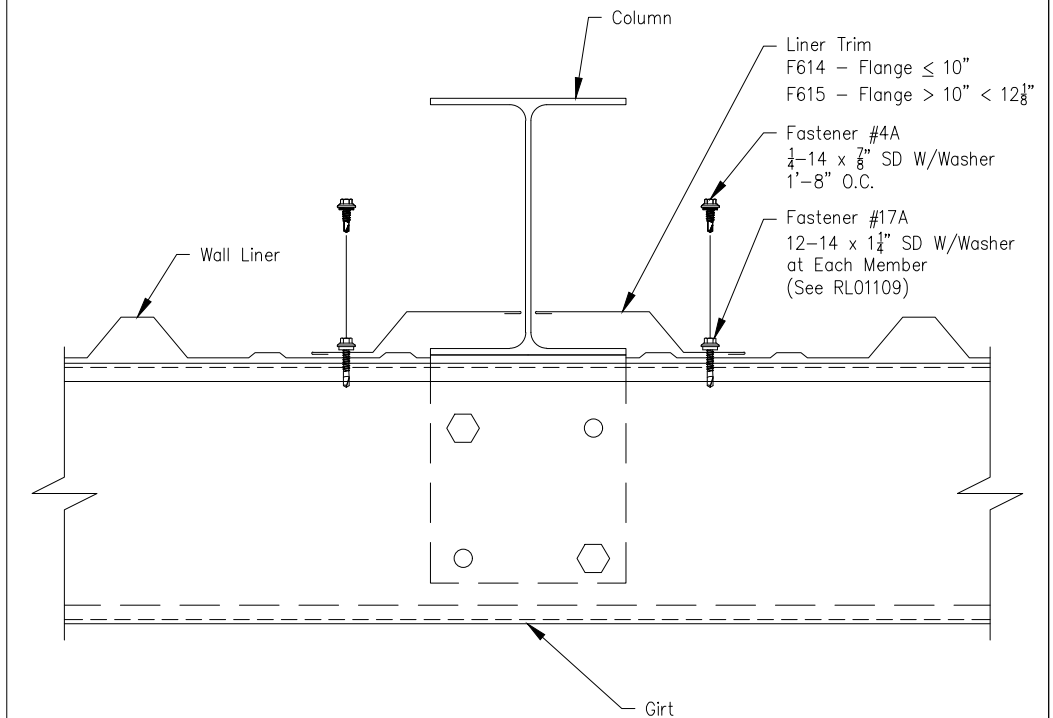
Page  
RL01109  
Date  
Jun '15  
Rev  
00



PBR Wall Liner  
Interior Column - By-Pass Girts

Page  
RL01113  
Date  
Aug '15  
Rev  
01

Liner panels are  
to be field cut.



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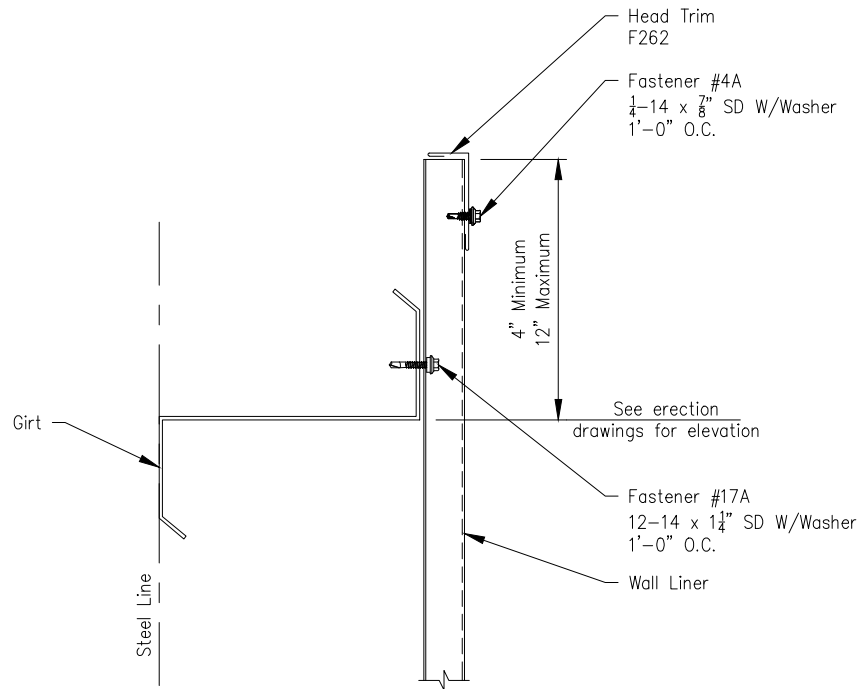
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CUSTOMER:	STEEL ERECTION & MAINTENANCE						
OWNER:	JIM CRAWFORD						
LOCATION:	PRESCOTT, AZ 86301						
CAD	DATE	SCALE	PHASE	BUILDING ID	JOB NUMBER	SHEET NUMBER	ISSUE
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Expires 06/30/2024

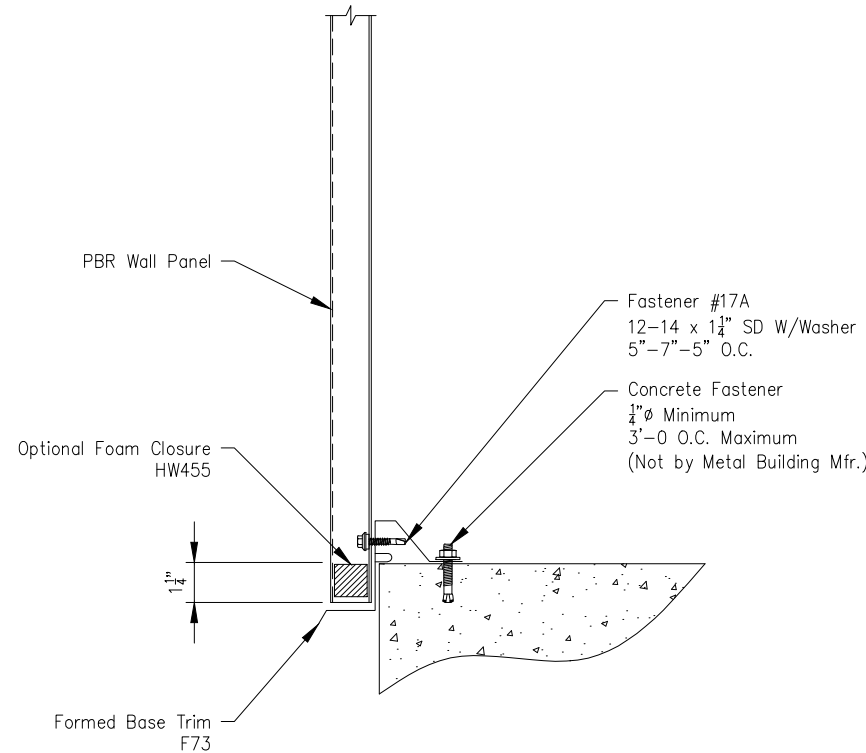
PBR Wall Liner  
Termination at Girt Elevation

Page  
RL01112  
Date  
Jun '15  
Rev  
00



PBR Wall Panel  
F73 Formed Base Trim Without Panel Recess

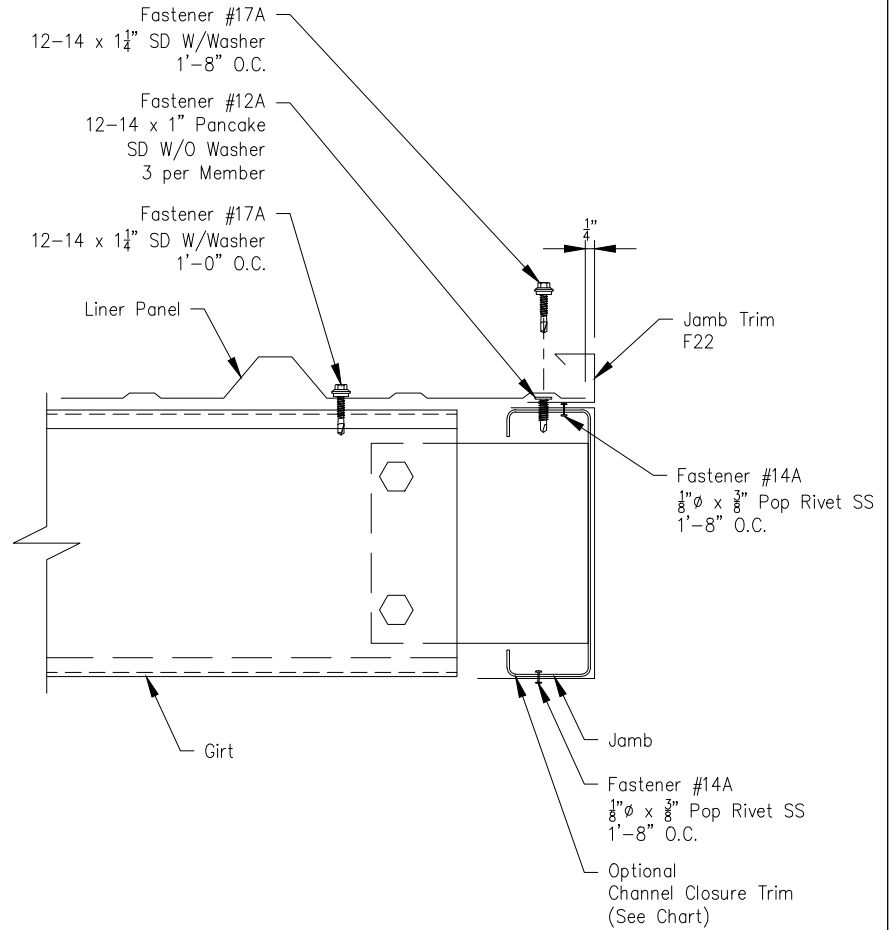
Page  
PW02107  
Date  
Jul '17  
Rev  
01



Wall panel must be held off of base trim a minimum of 1/4" to prevent bottom of wall panel from rusting.

PBR Liner  
Framed Opening Jamb

Page  
RL01027  
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Aug '15  
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05



Channel Closure Trim Piece Mark

Member Size	8"	8 1/4"	10"	10 1/4"	12"	12 1/4"
Piece Mark	F981	F2994	F982	F2993	F169	F2995

Note: The interior leg of the installed Channel Closure Trim is to be orientated ( $\pm 1/8"$ ) to match the interior leg of the Header or Jamb.

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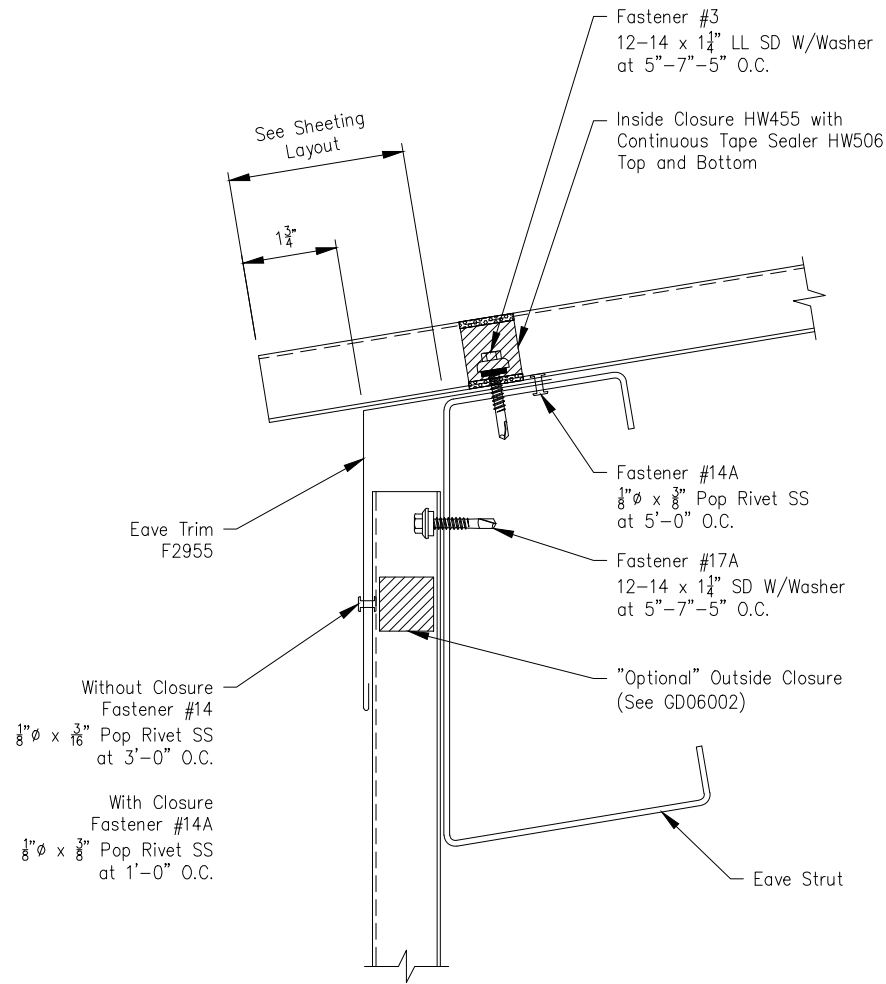
7301 FAIRVIEW, HOUSTON, TEXAS, P.O. BOX 40338  
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PROJECT:	JIM CRAWFORD						
CUSTOMER:	STEEL ERECTION & MAINTENANCE			OWNER: JIM CRAWFORD			
LOCATION:	PRESCOTT, AZ 86301						
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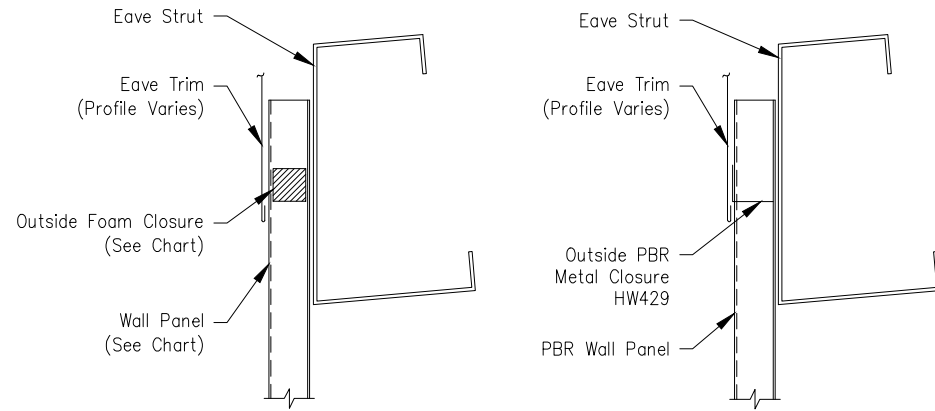
**PBR Panel  
Flat Eave Trim - Sheeted Wall**

Page  
**GPR03004**  
Date  
Feb '17  
Rev  
05



**Single Skin Wall Panel Outside Closure Requirements at Eave**

Page  
**GD06002**  
Date  
Feb '19  
Rev  
02



Detail at Foam Closure  
(Low Eave Shown High Eave Similar)

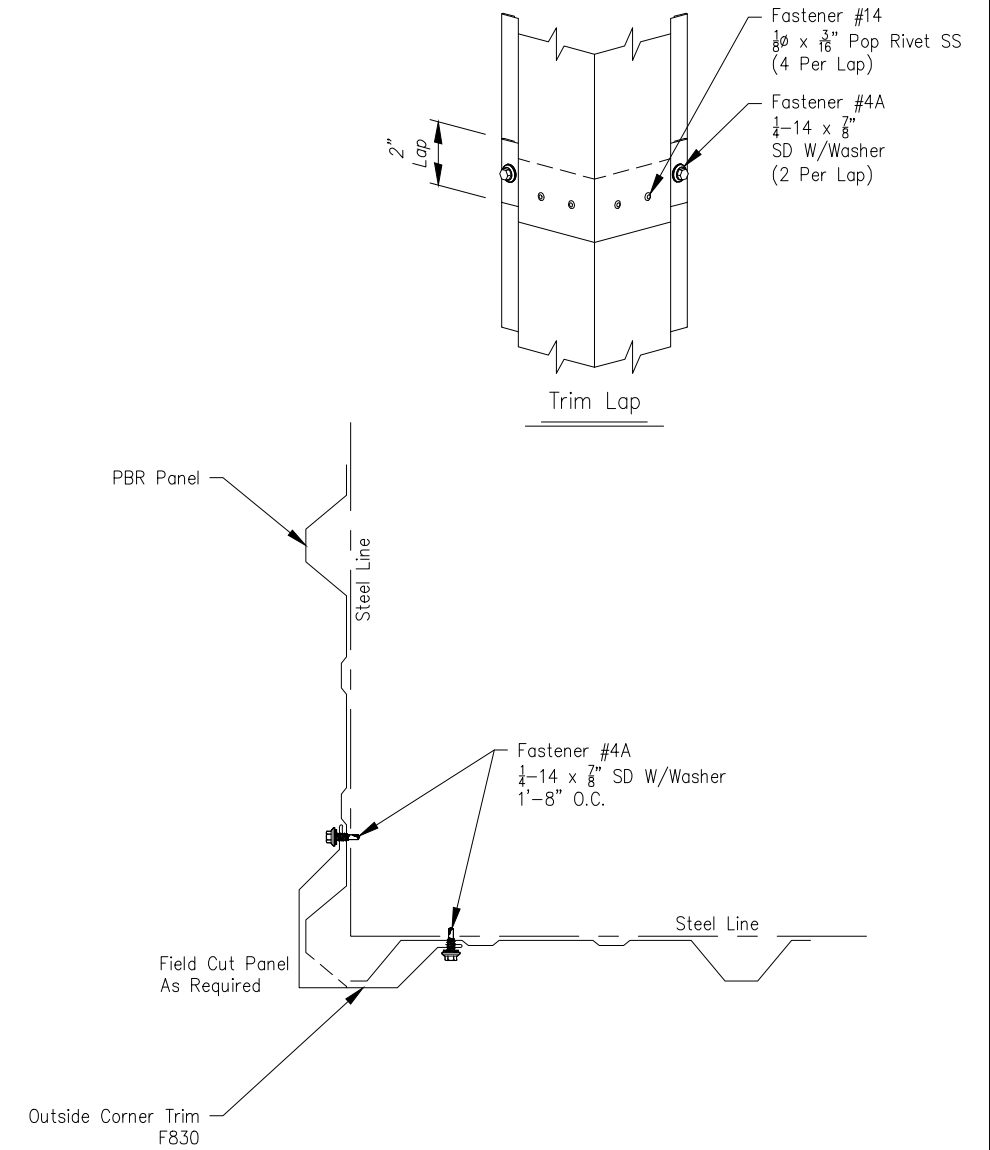
Detail at Optional Metal Closure  
For PBR Panel Only  
(Low Eave Shown High Eave Similar)

**Note:**  
Foam Closures Are Required When Job Requires Air Infiltration  
Or Sealed Wall Requirements, See GD16002.

Wall Panel	Foam Closure
PBR	HW456
AVP	HW465
PBU	HW460
VistaShadow	HW465
NuWall	HW424
PBC	HW462
PBD	HW463
ShadowRib	HW412
Designer Series (Fluted Only)	HW4037
RBR (Reverse Rolled PBR)	HW455
RBU (Reverse Rolled PBU)	HW459
7.2	HW461

**PBR Wall Panel  
Outside Corner - On Module**

Page  
**PW03001**  
Date  
Apr '19  
Rev  
08



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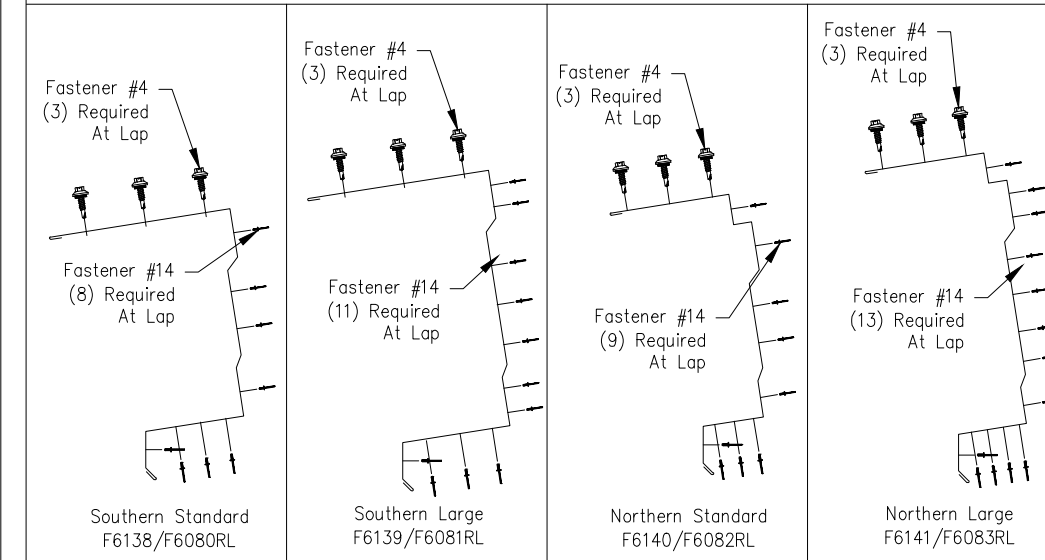
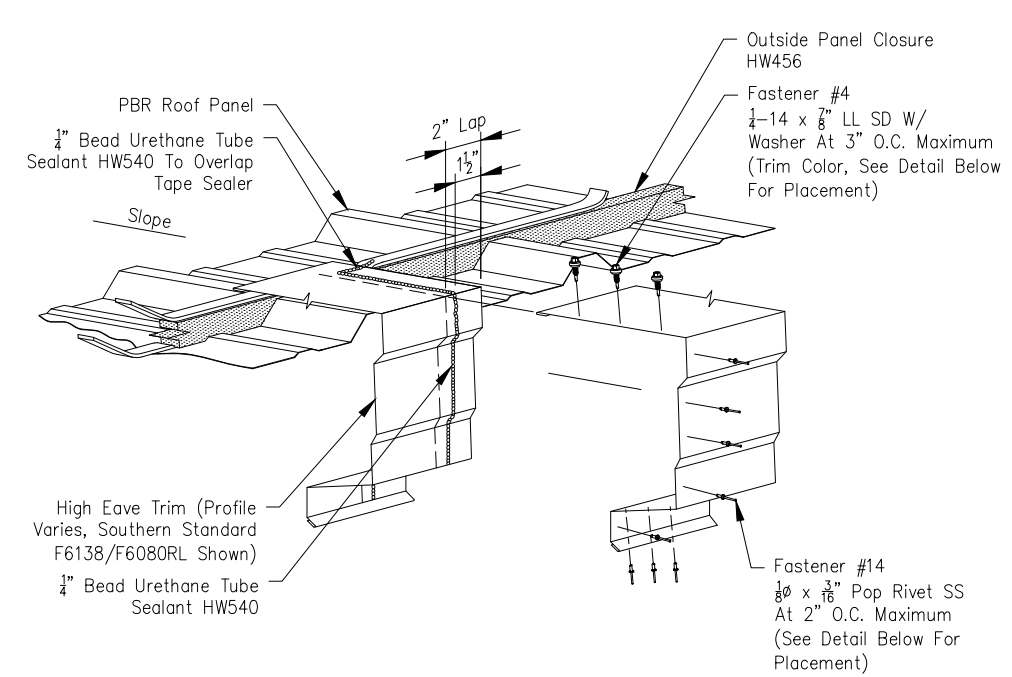
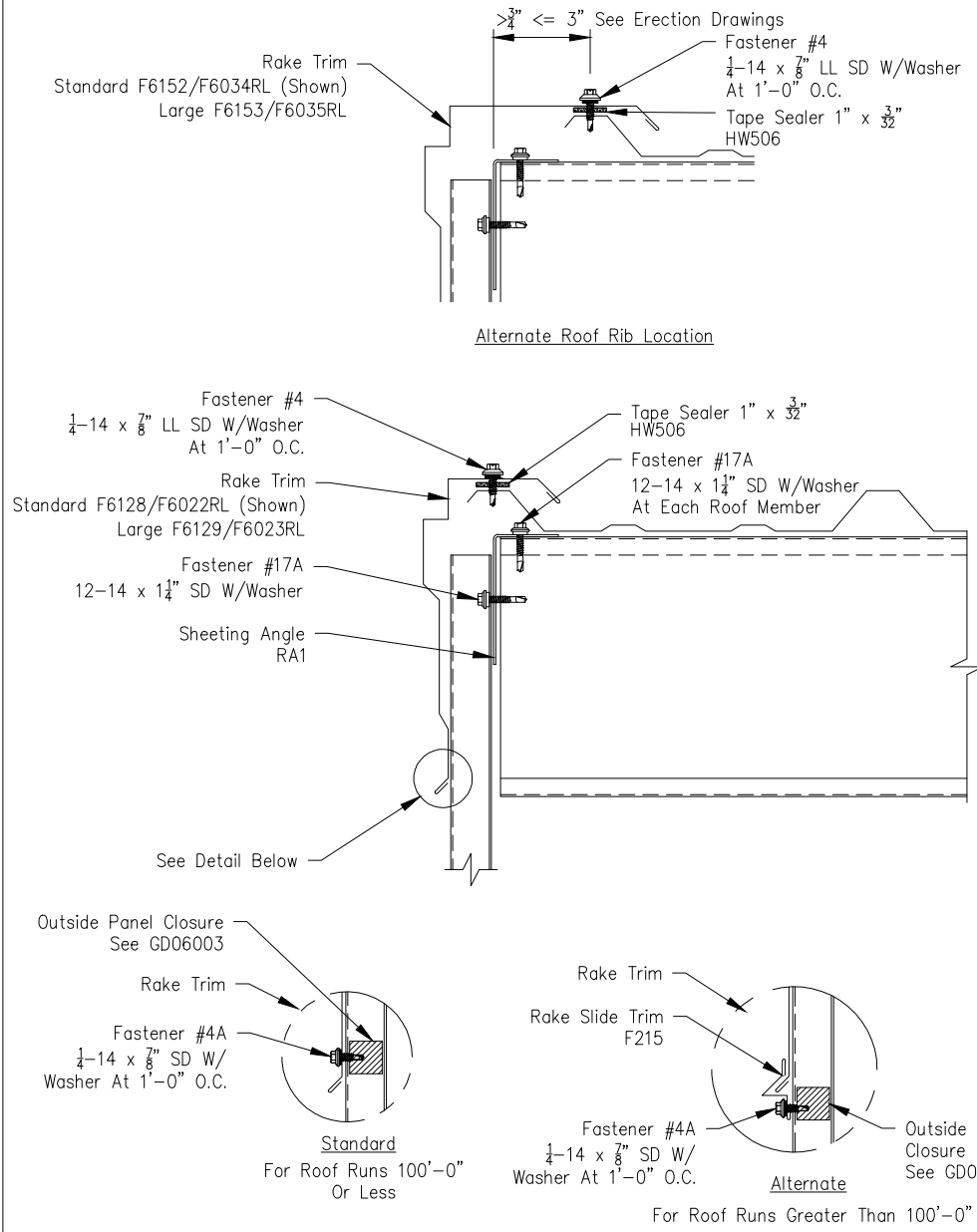
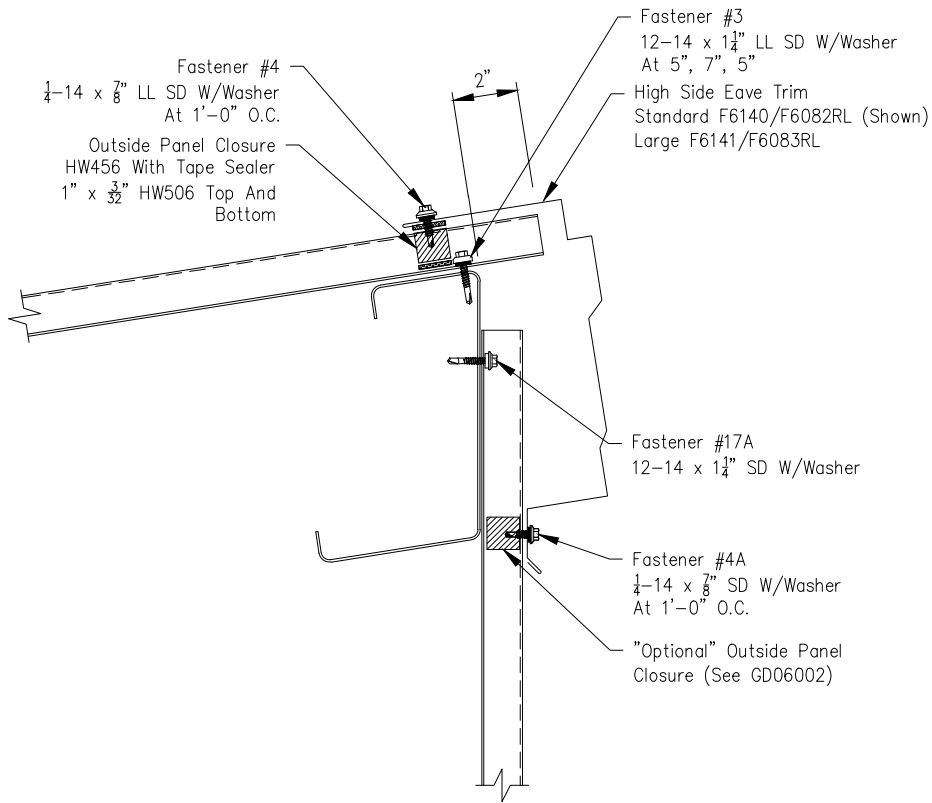


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PROJECT: JIM CRAWFORD		OWNER: JIM CRAWFORD					
CUSTOMER: STEEL ERECTION & MAINTENANCE							
LOCATION: PRESCOTT, AZ 86301							
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OWNER:	JIM CRAWFORD						
LOCATION:	PRESCOTT, AZ 86301						
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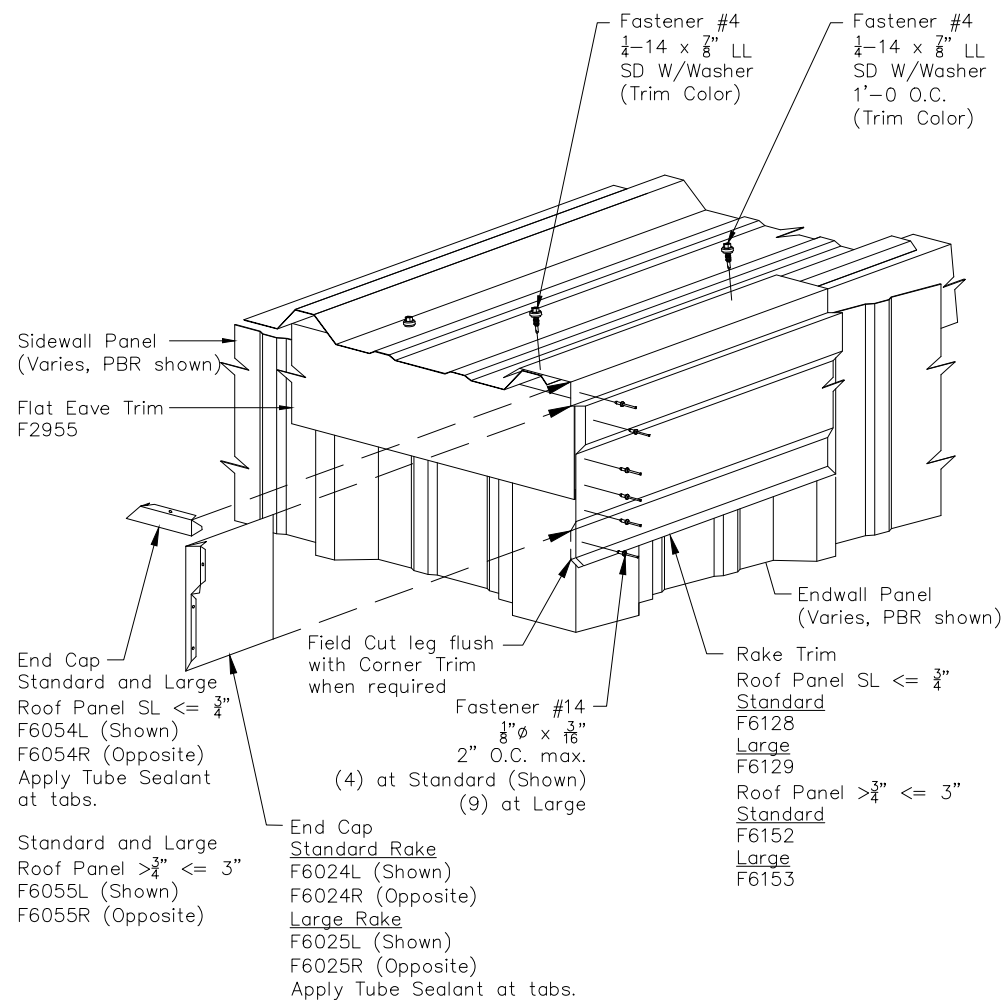
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**PBR Roof Panel - Northern Standard and Northern Large Edgecraft**  
**Low Eave Rake Corner with Flat Eave Trim  $\frac{3}{4}$ " thru  $1\frac{3}{4}$ " Wall Panel**

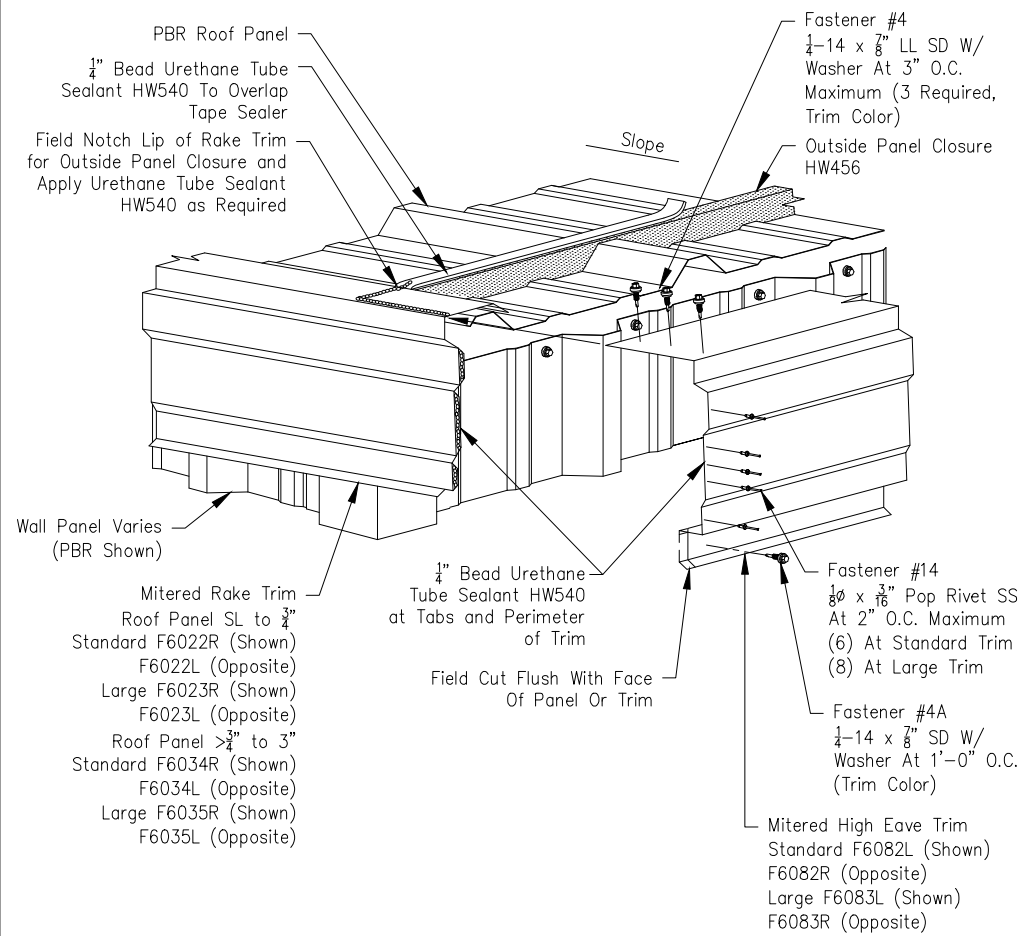
Page  
TPR04009  
Date  
Nov '20  
Rev  
02



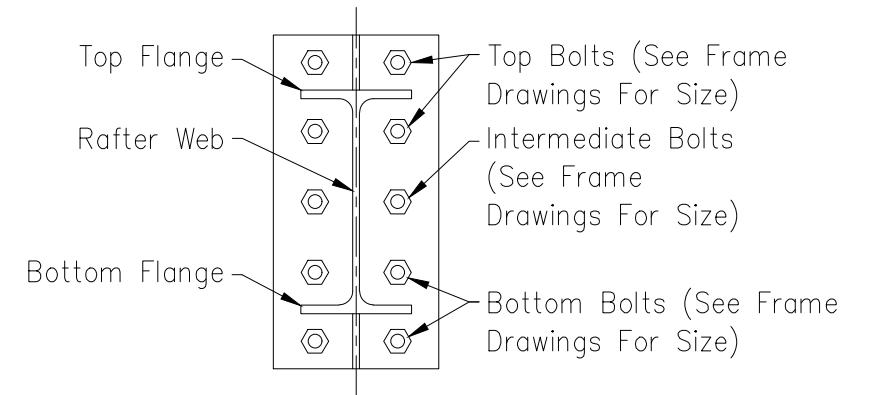
See Construction Details for  
required attachment of Eave  
Trim and Rake Trim to Wall.  
Wall Panel Closures not shown  
for clarity.

**PBR Roof - Northern Standard And Northern Large Edgecraft**  
**High Eave Rake Corner -  $1\frac{1}{4}$ " Wall Panel**

Page  
TPR04012  
Date  
Jul '20  
Rev  
00



See construction details for required  
attachment of eave trim and rake  
trim to roof and wall.  
Wall panel closures not shown for  
clarity.



U3	Bolts At Rigid Frame Rafter To Column Connection	Date Jun '17
Page MB-U3		Rev 00

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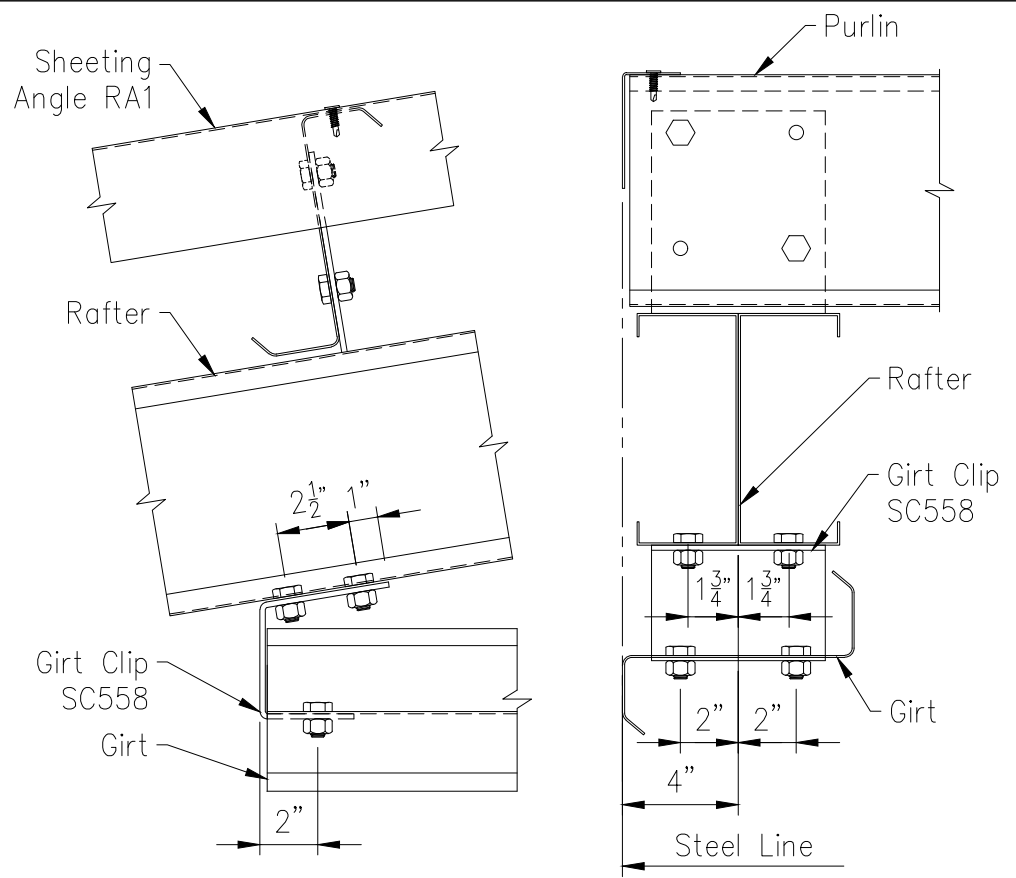
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CUSTOMER:	STEEL ERECTION & MAINTENANCE						
OWNER:	JIM CRAWFORD						
LOCATION:	PRESCOTT, AZ 86301						
CAD	DATE	SCALE	PHASE	BUILDING ID	JOB NUMBER	SHEET NUMBER	ISSUE
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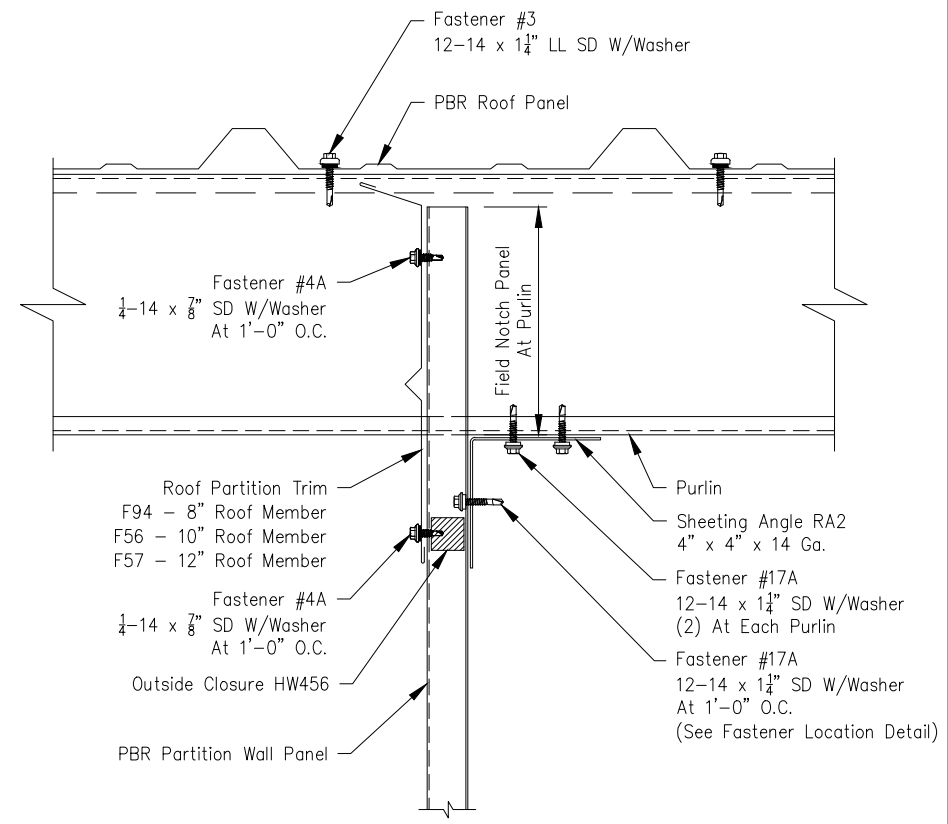




W9	Girt To Double Cold Form Endwall Rafter	Date May '19
Page MB-W9		Rev 00

**Transverse PBR Partition Sheeting  
Premium Package**

Page  
**TH13004**  
Date  
Sep '17  
Rev  
01



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CUSTOMER: STEEL ERECTION & MAINTENANCE		LOCATION: PRESCOTT, AZ 86301					
CAD	DATE	SCALE	PHASE	BUILDING ID	JOB NUMBER	SHEET NUMBER	ISSUE
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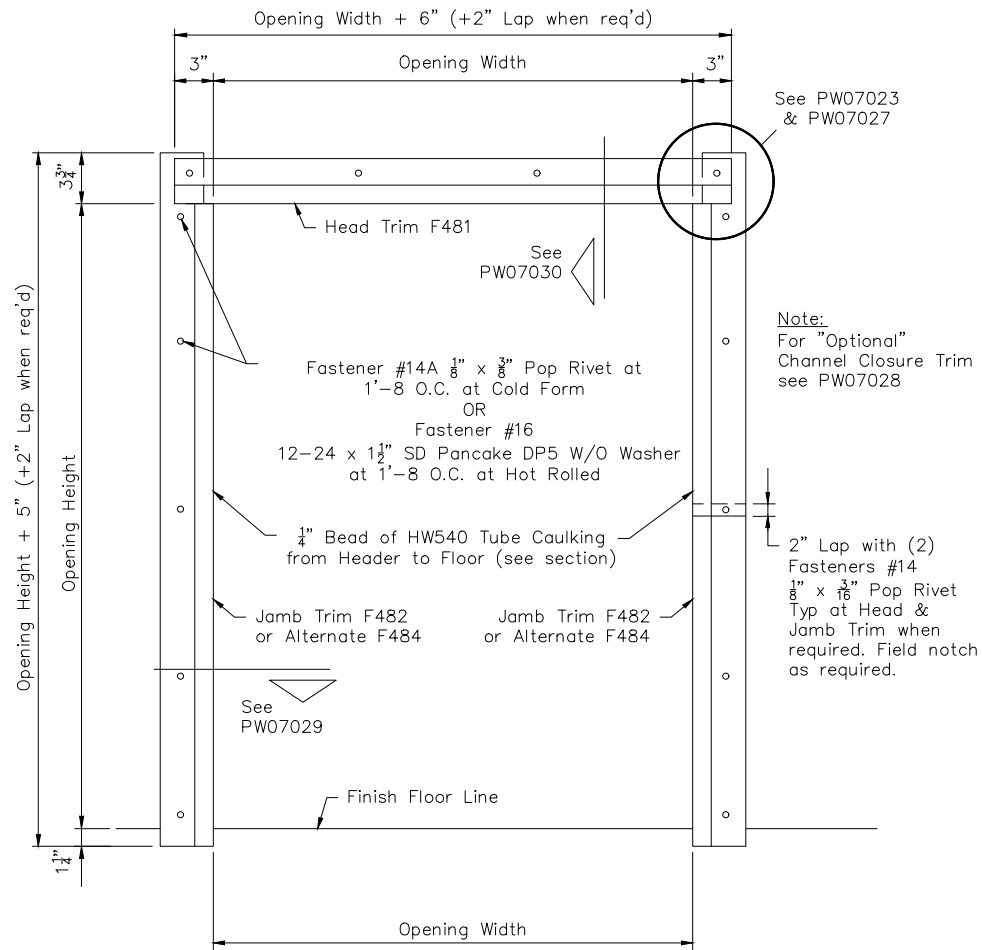


Expires 06/30/2024

**PBR Wall Panel - Three Sided Framed Opening - Trim Installation with Field Notch Panel at Head Trim**

Page  
PW07022  
Date  
Mar '20  
Rev  
05

Note: Trim Installation can be done by Field Notch Panel as shown on PW07022 & PW07023 OR with Field Notch and Bend Tabs at Head Trim as shown on PW07024 & PW07025.



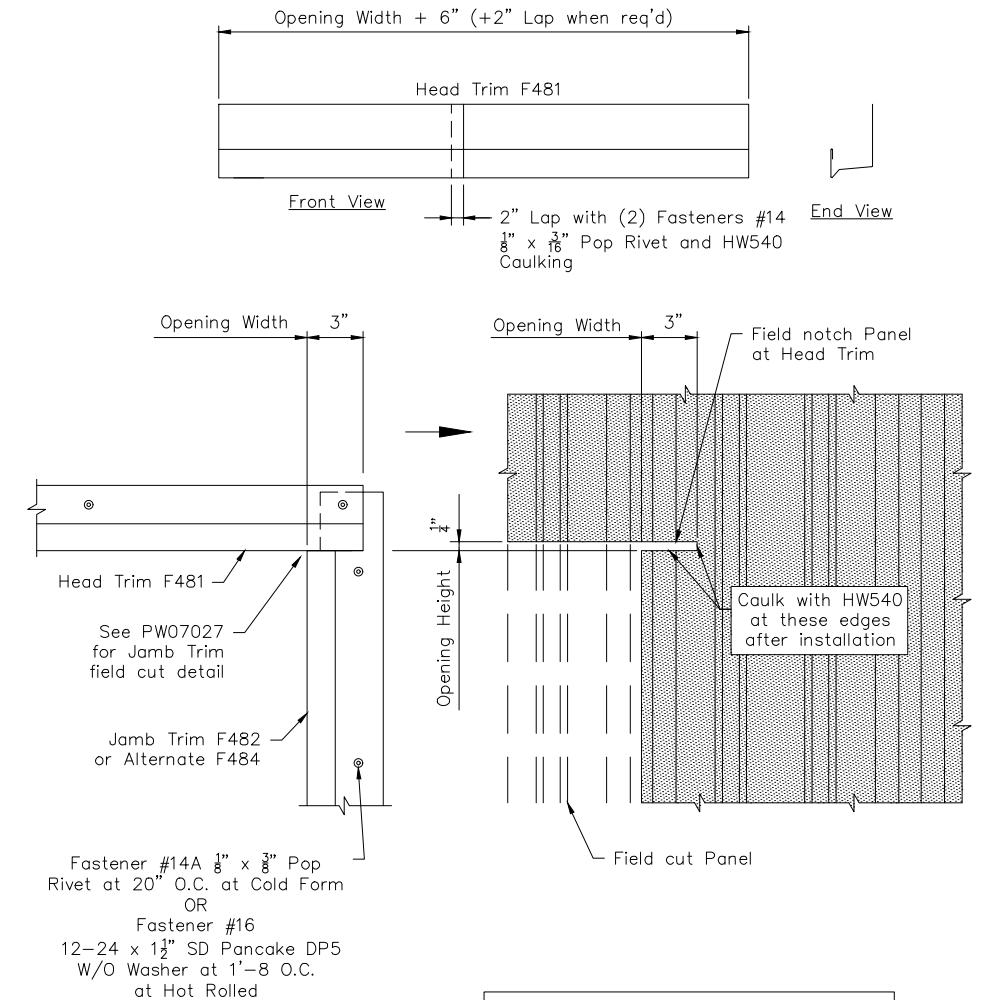
Note: All trim is to be installed BEFORE blanket insulation is applied to walls.

Note: Field measure Opening Width and Height before making field cuts and adjust cut dimensions accordingly.

**PBR Wall Panel - Three Sided Framed Opening Field Notch Panel at Head Trim**

Page  
PW07023  
Date  
Mar '20  
Rev  
05

Note: Trim Installation can be done by Field Notch Panel as shown on PW07022 & PW07023 OR with Field Notch and Bend Tabs at Head Trim as shown on PW07024 & PW07025.



Note: All trim is to be installed BEFORE blanket insulation is applied to walls

Note: Panel position is shown with Panel Rib and Opening on 1'-0 module. Location of Rib may vary depending on the Opening Width and location. Field measure before cutting Panel and Trim.

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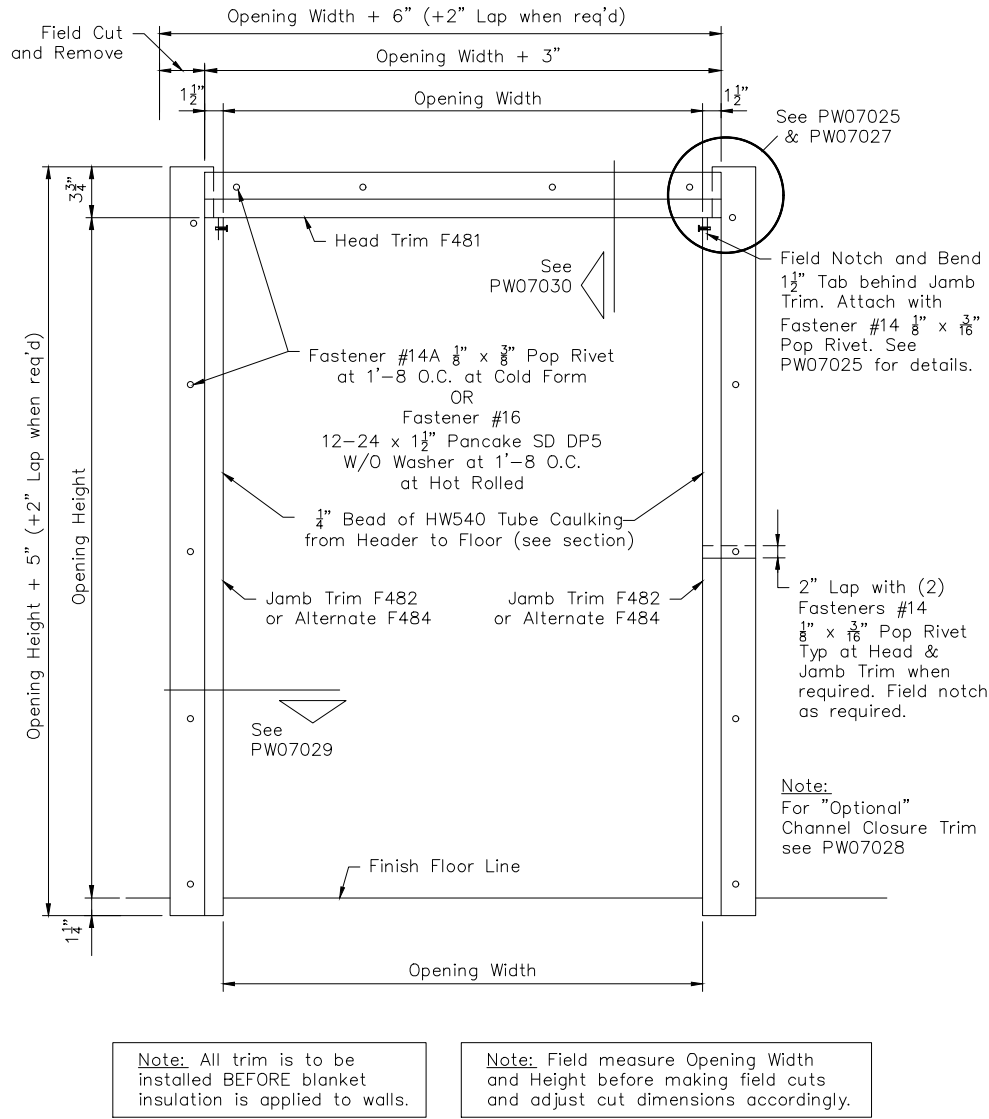
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OWNER:	JIM CRAWFORD						
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CAD	DATE	SCALE	PHASE	BUILDING ID	JOB NUMBER	SHEET NUMBER	ISSUE
	4/20/23	N.T.S.	1	A	19-B-34172	DET17	0



**PBR Wall Panel - Three Sided Framed Opening - Trim Installation with Field Notch and Bend Tabs at Head Trim**

Page PW07024  
Date Mar '20 Rev 05

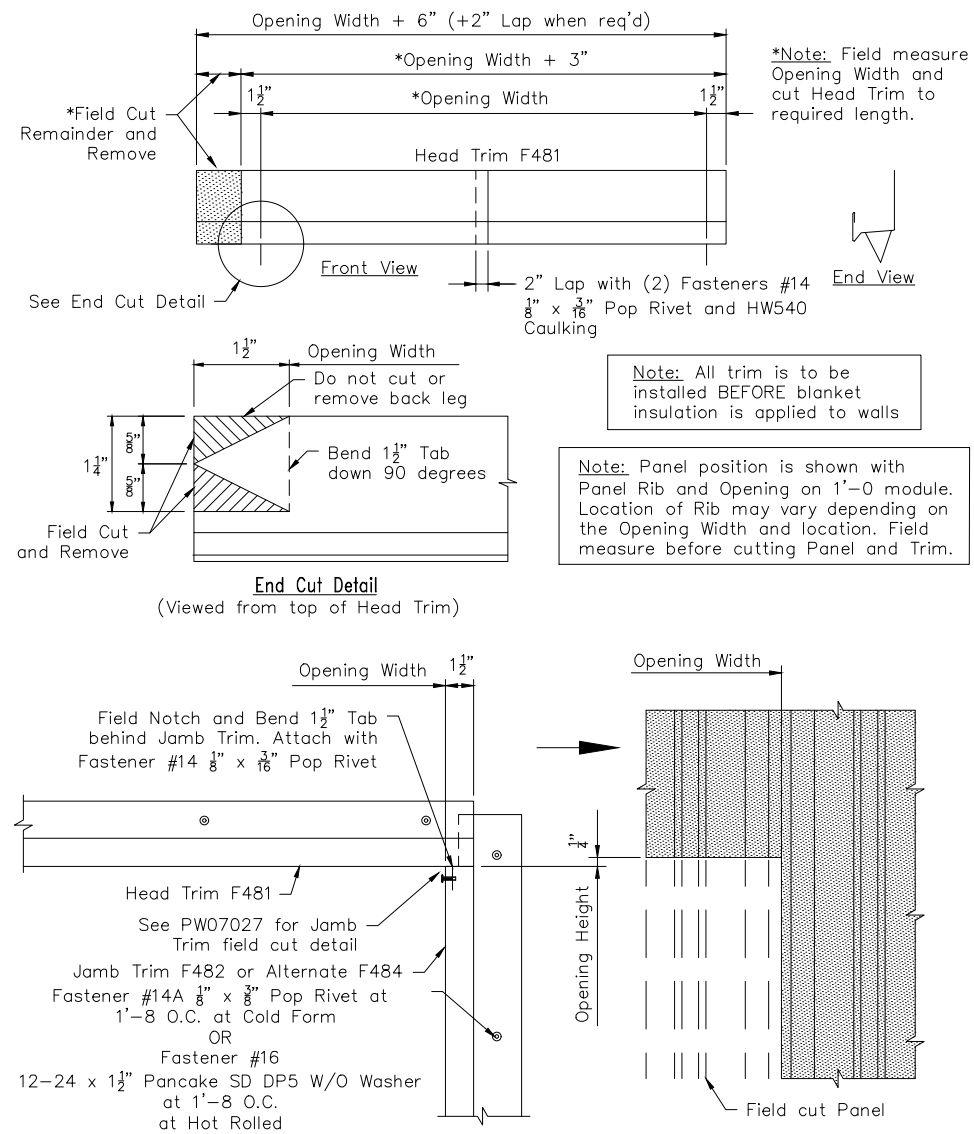
Note: Trim Installation can be done by Field Notch Panel as shown on PW07022 & PW07023 OR with Field Notch and Bend Tabs at Head Trim as shown on PW07024 & PW07025.



**PBR Wall Panel - Three Sided Framed Opening - Field Notch and Bend Tabs at Head Trim**

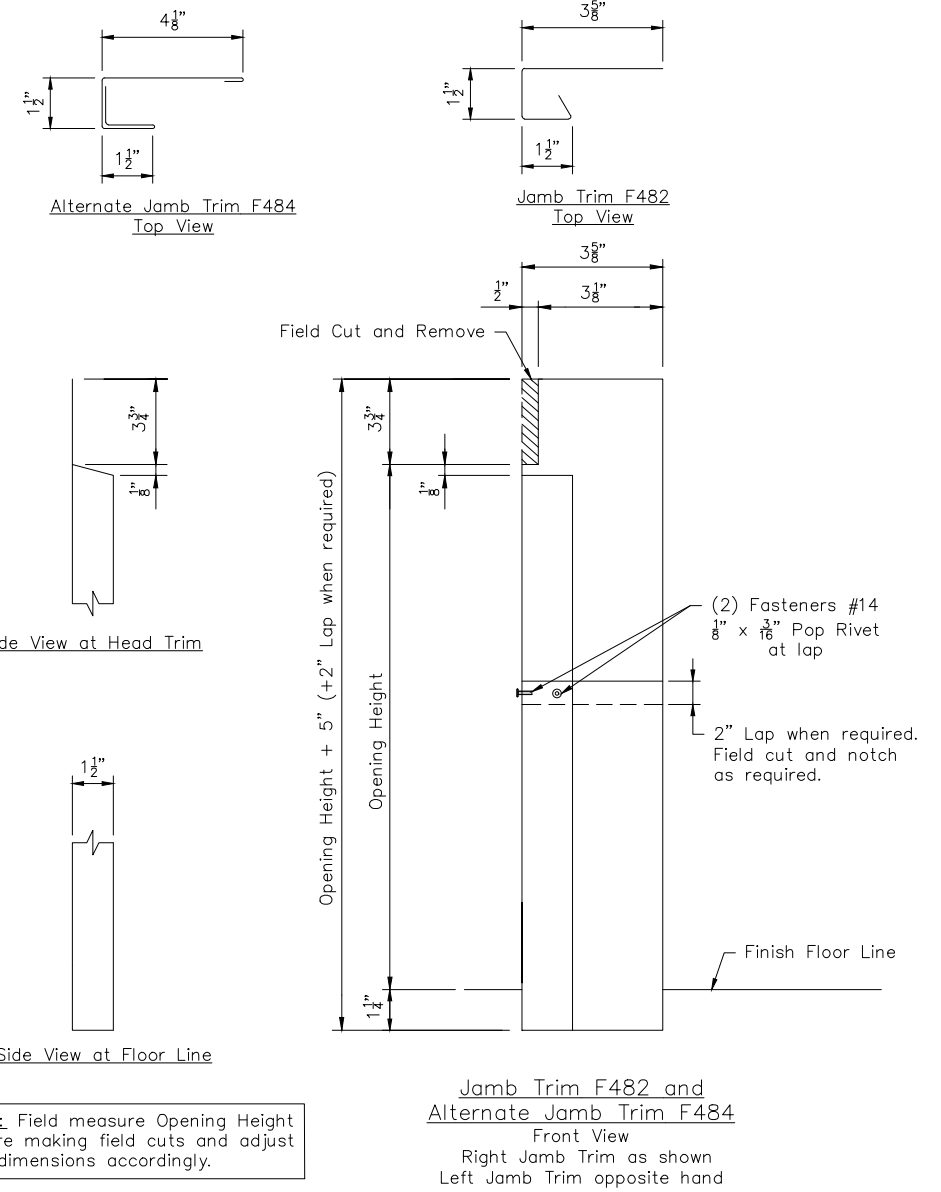
Page PW07025  
Date Mar '20 Rev 05

Note: Trim Installation can be done by Field Notch Panel as shown on PW07022 & PW07023 OR with Field Notch and Bend Tabs at Head Trim as shown on PW07024 & PW07025.



**PBR Wall Panel - Three Sided Framed Opening Jamb Trim Field Cut Details**

Page PW07027  
Date Mar '20 Rev 04



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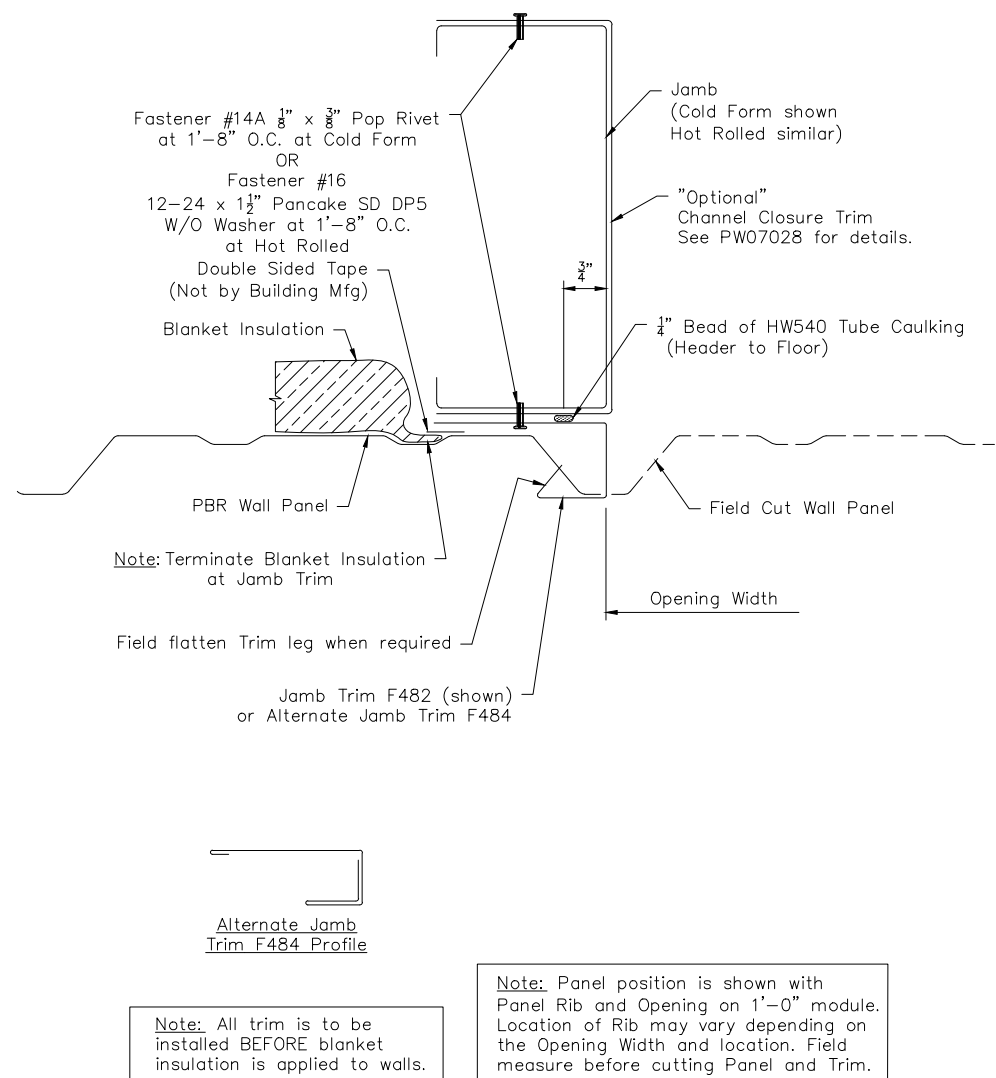
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OWNER:	JIM CRAWFORD						
LOCATION:	PRESCOTT, AZ 86301						
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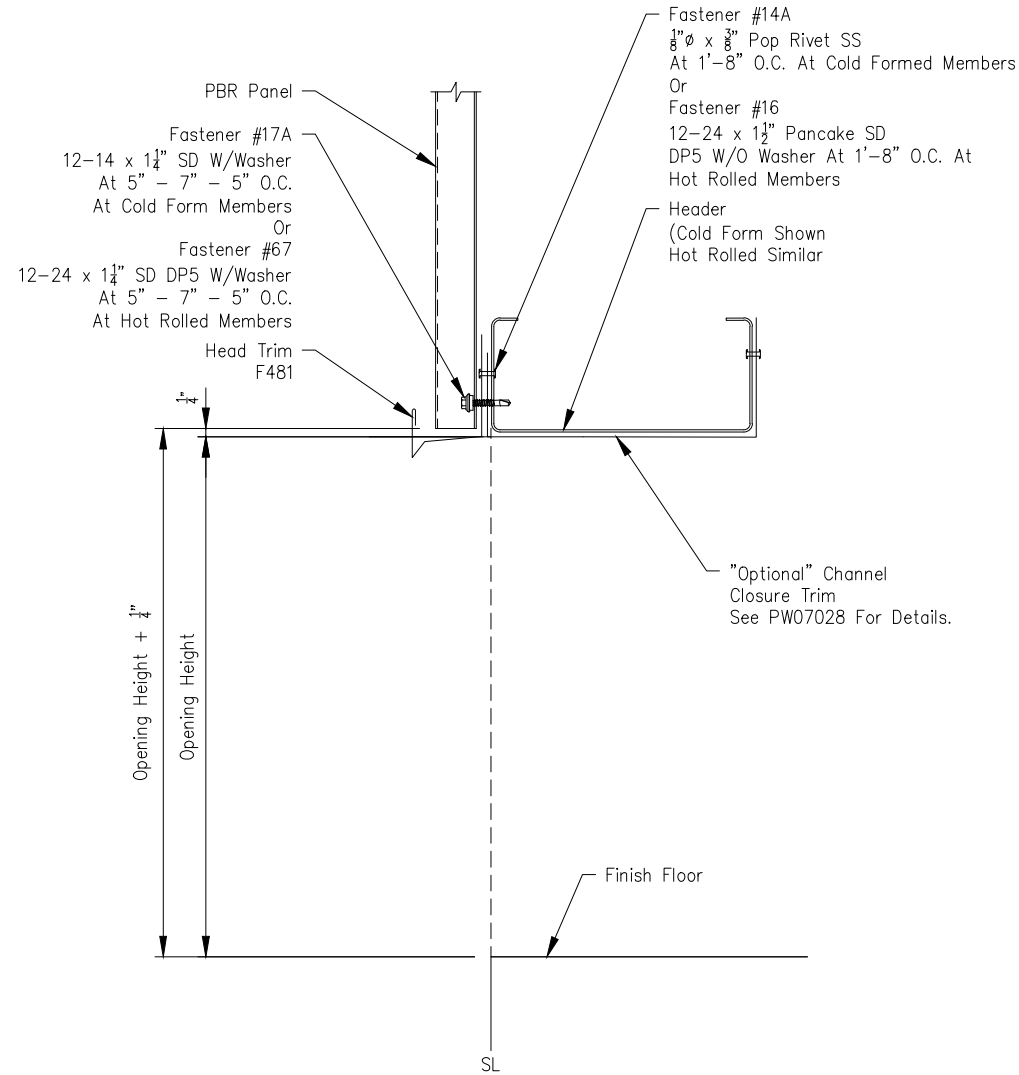
PBR Wall Panel - Three Sided Framed Opening - Jamb Trim Installation

Page PW07029  
Date Mar '20 Rev 05



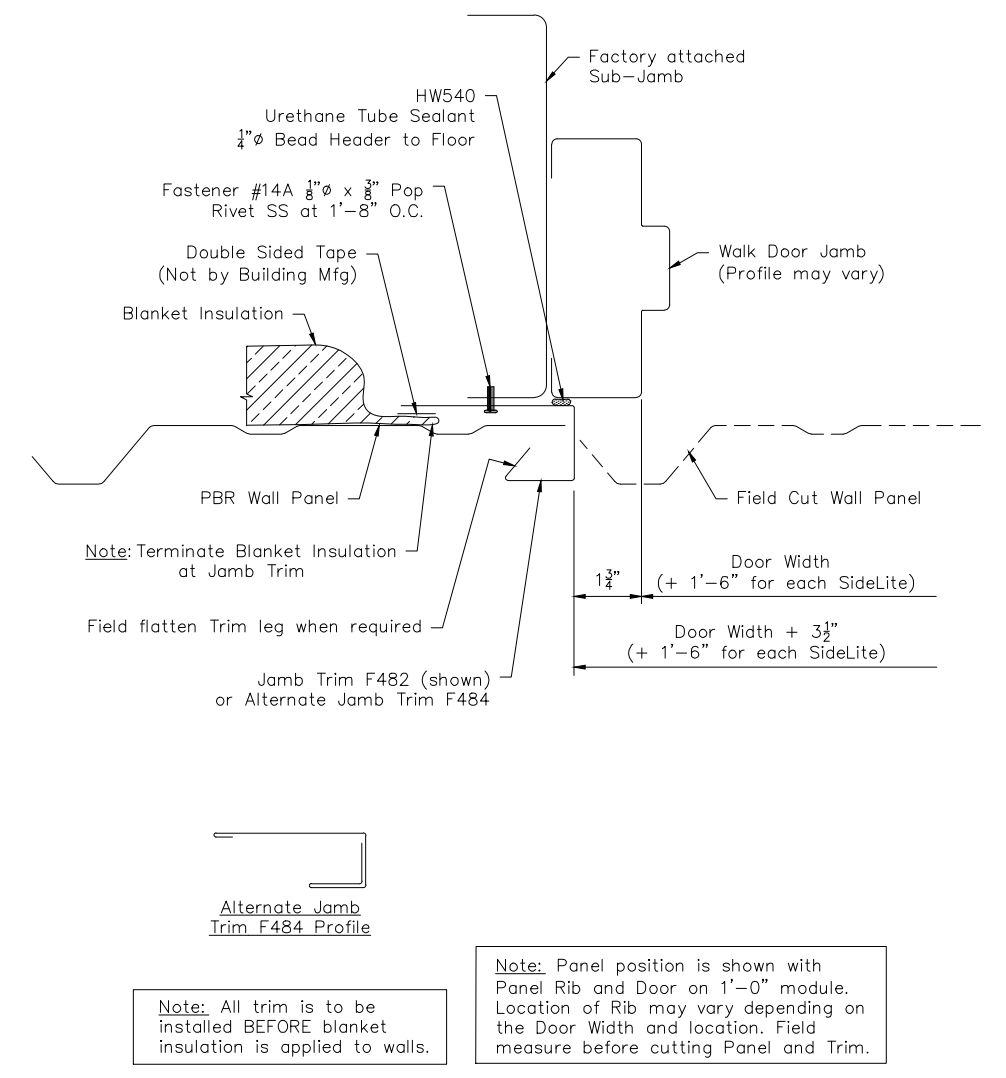
PBR Wall Panel - Three Sided Framed Opening Head Trim Installation

Page PW07030  
Date Oct '19 Rev 03



PBR Wall Panel - Pre-Assembled Walk Door & Glass-Front Walk Door Jamb Trim Installation

Page PW09029  
Date Mar '20 Rev 05



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OWNER:	JIM CRAWFORD						
LOCATION:	PRESCOTT, AZ 86301						
CAD	DATE	SCALE	PHASE	BUILDING ID	JOB NUMBER	SHEET NUMBER	ISSUE
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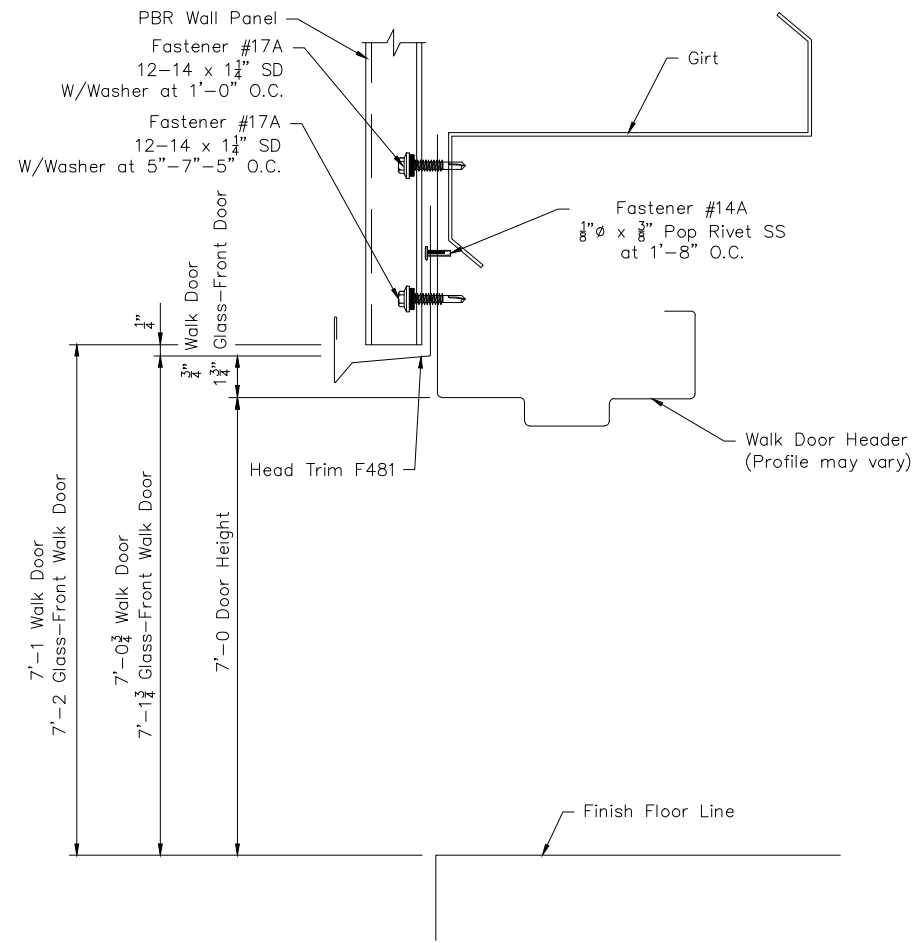
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Expires 06/30/2024

PBR Wall Panel - Pre-Assembled Walk Door And Glass-Front Walk Door Head Trim Installation

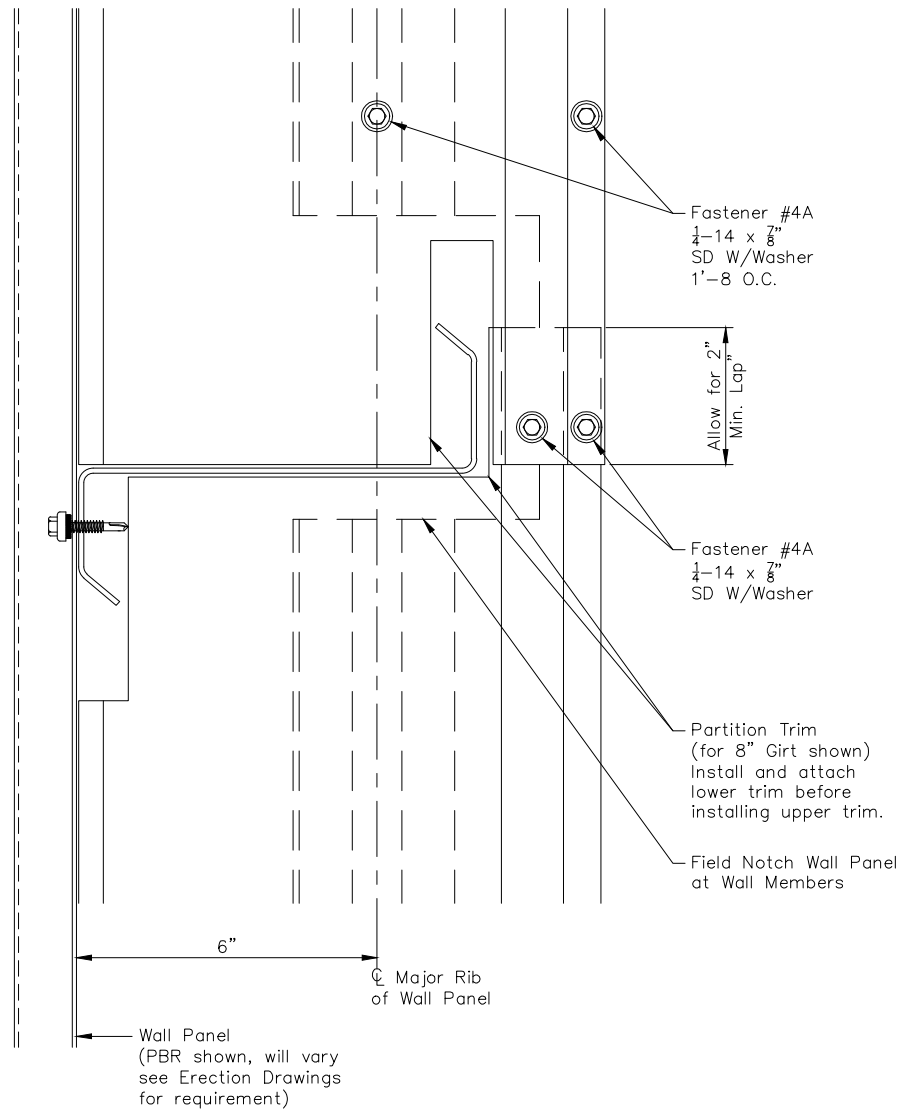
Page PW09030  
Date May '19 Rev 03



Note: All trim is to be installed BEFORE blanket insulation is applied to walls.

Transverse Partition - PBR Wall Partition Trim Installation Section

Page CP05005  
Date May '19 Rev 03



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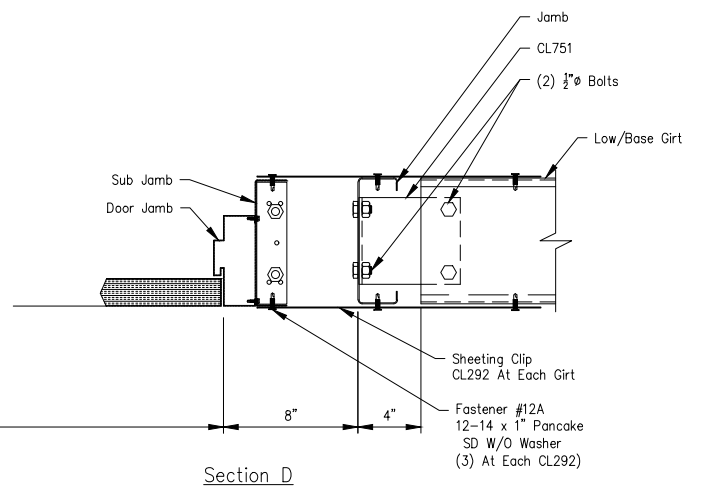
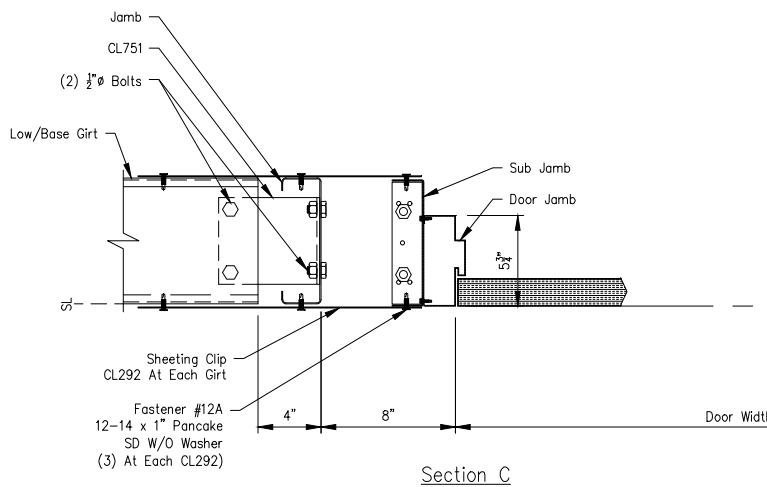
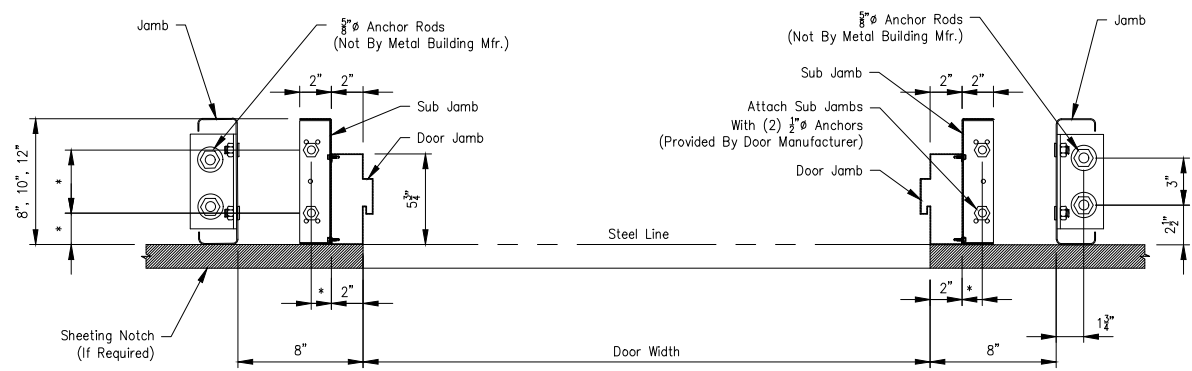
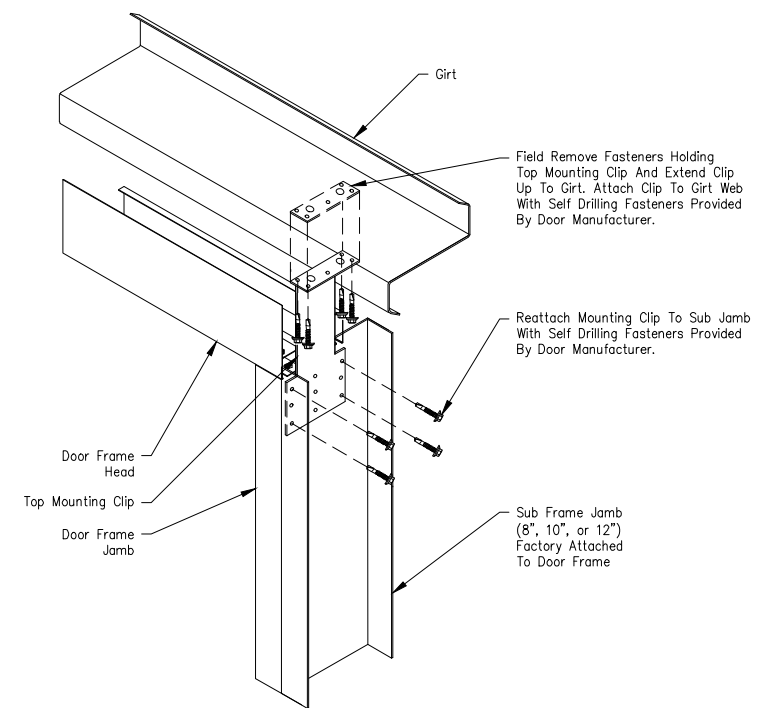
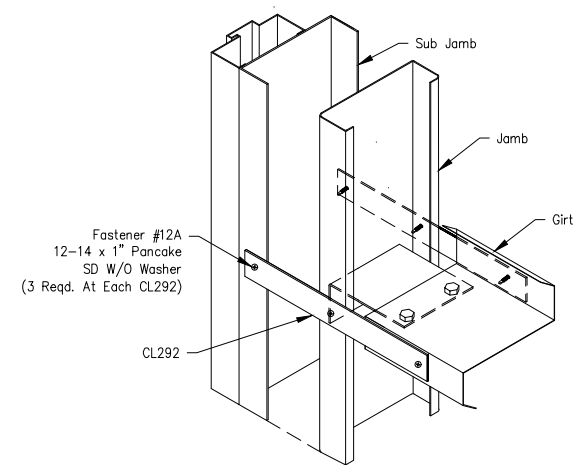
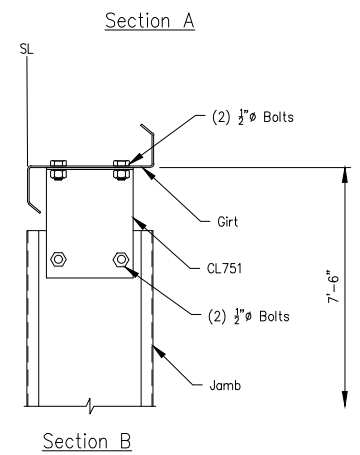
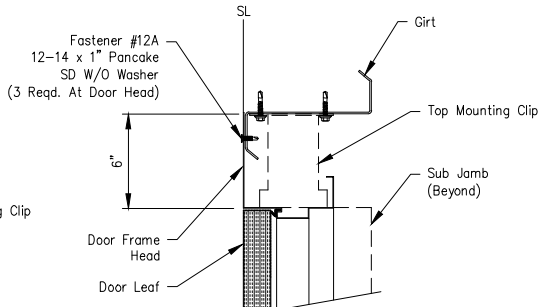
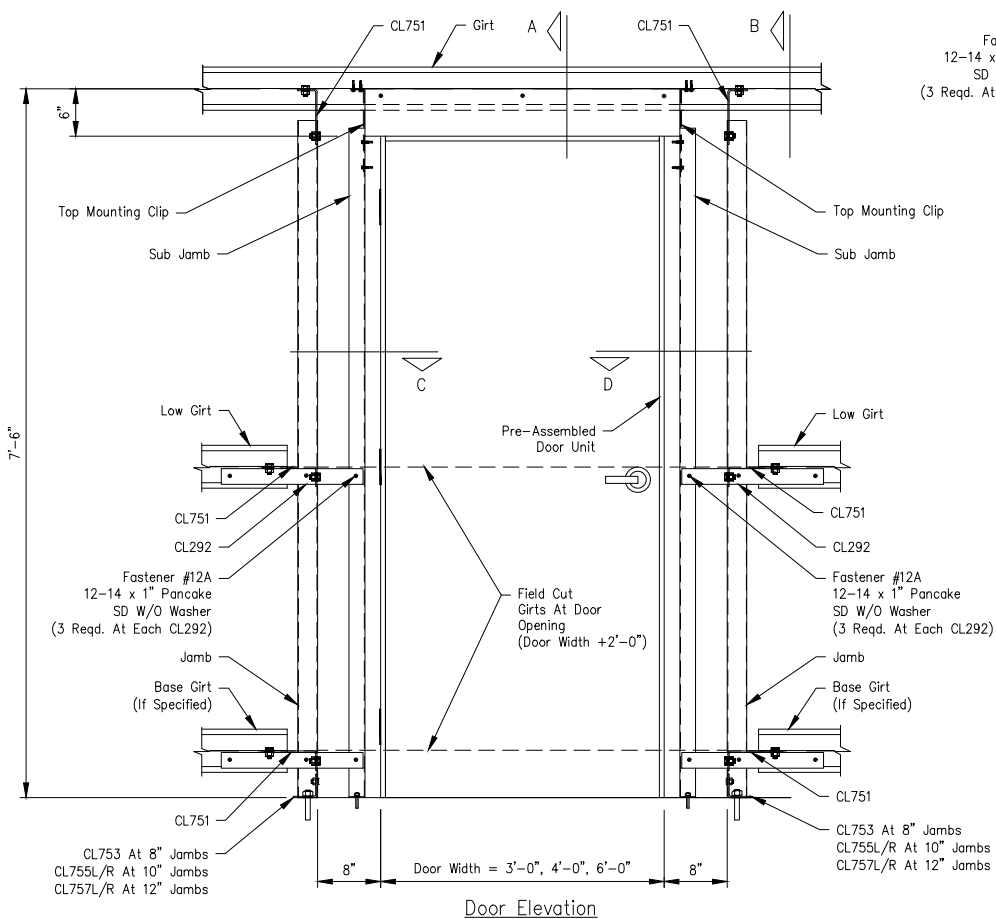


7301 FAIRVIEW, HOUSTON, TEXAS, P.O. BOX 40338  
ZIP 77041 (713) 466-7788 ZIP 77240

PROJECT: JIM CRAWFORD		OWNER: JIM CRAWFORD					
CUSTOMER: STEEL ERECTION & MAINTENANCE							
LOCATION: PRESCOTT, AZ 86301							
CAD	DATE	SCALE	PHASE	BUILDING ID	JOB NUMBER	SHEET NUMBER	ISSUE
	4/20/23	N.T.S.	1	A	19-B-34172	DET20	0



Expires 06/30/2024



\* Anchor Placement To Match Sub Jamb Base Dimensions As Determined By Door Manufacturer.  
 The Adequacy Of The 5/8" Base Anchor Is Not The Responsibility Of The Building Manufacturer.  
 The Adequacy Of These Base Anchors Should Be Determined By A Qualified Foundation Engineer.

This item has been electronically signed and sealed by Yuangang (Bill) Li, S.E., P.E. on the date and/or time stamp shown using a digital signature. Printed copies of this document are not considered signed and sealed and the signature must be verified by a 3rd Party Certificate Authority on any electronic copy.

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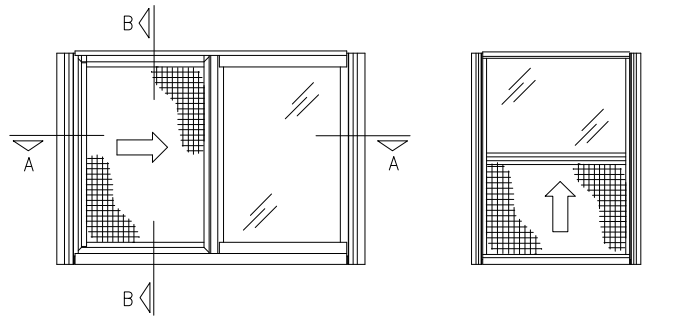


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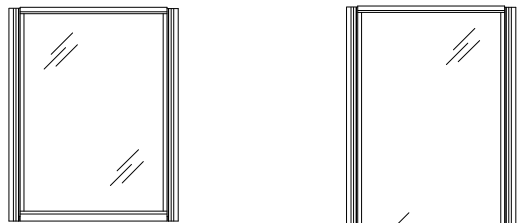
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CUSTOMER:	STEEL ERECTION & MAINTENANCE						
OWNER:	JIM CRAWFORD						
LOCATION:	PRESCOTT, AZ 86301						
CAD	DATE	SCALE	PHASE	BUILDING ID	JOB NUMBER	SHEET NUMBER	ISSUE
	4/20/23	N.T.S.	1	A	19-B-34172	DET21	0







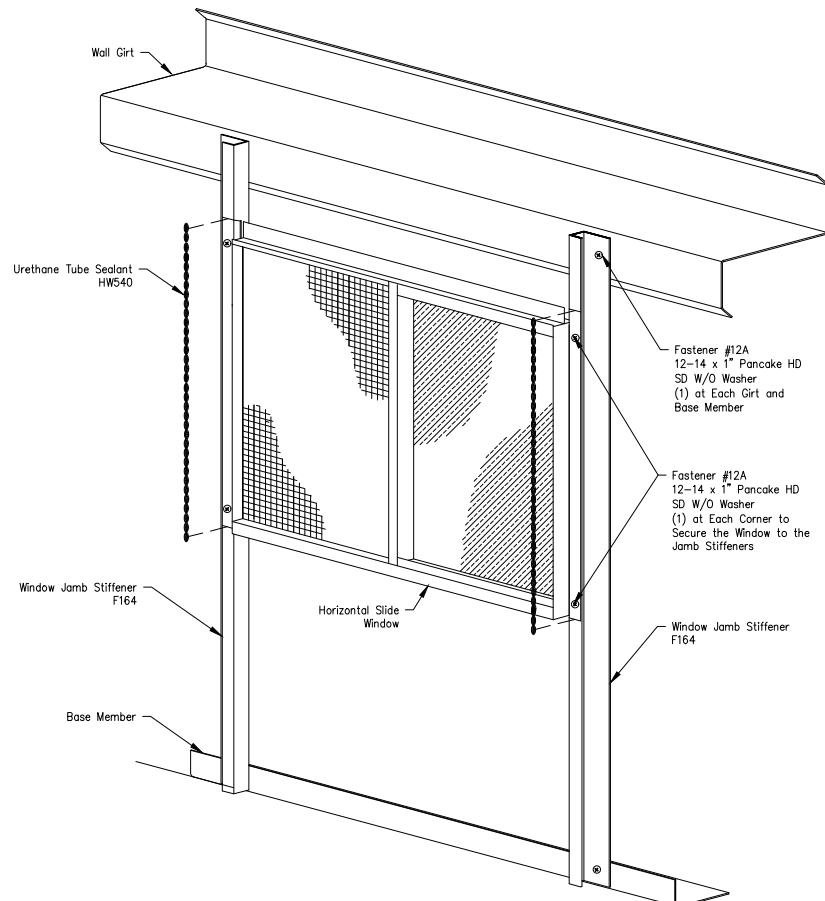
Horizontal Slide Window      Single Hung Window



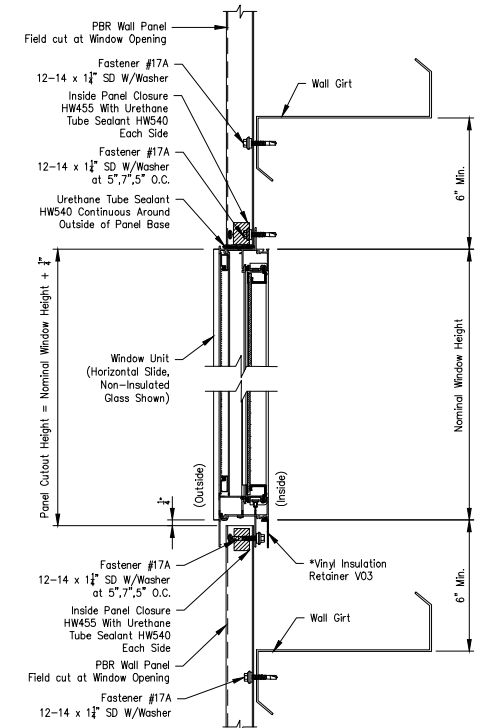
Fixed Window  
(FW2056, FW2060, FW3040, FW4040)

Fixed Window  
(FW1070, FW2070)

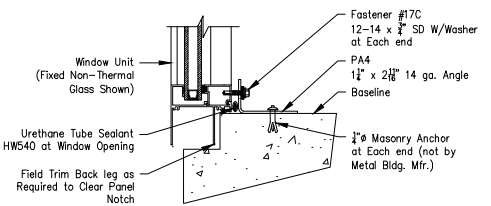
- PBR Jamb Fin E91  
(2) per Window
  - Snap-On Trim E86  
(2) per Window
  - \*Vinyl Insulation Retainer V03
- \*Vinyl Insulation Retainer V03 is optional and is not provided unless specified on the order documents



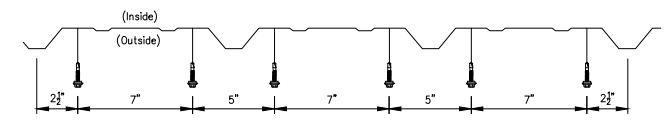
Jamb Stiffener/Window Isometric



Section B - Head/Sill

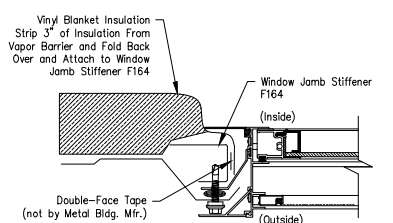


Section C - Sill at Baseline

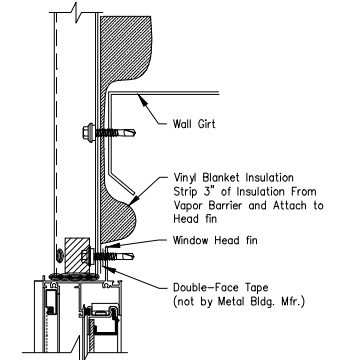


Fastener Spacing at Head and Window Sill

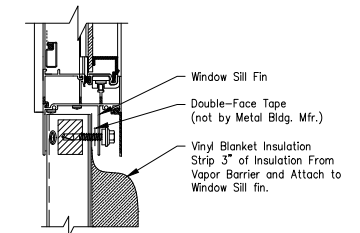
Note: Fastener location shown is for the window head, fasteners are installed from the inside of the window sill.



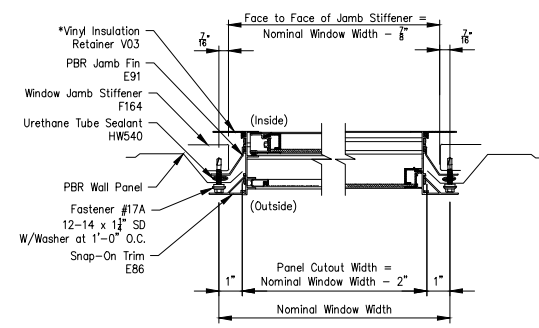
Insulation Section at Window Jamb



Insulation Section at Window Head



Insulation Section at Window Sill



Section A - Jamb PBR Panel

Installation Notes:

Window jamb fins are designed for installation at major panel ribs only. Typically windows are located between the 7'-6" girt and the baseline of the applicable wall.

Windows are typically packaged with two PBR Jamb Fins E91 that are not installed on the window unit. Prior to window installation install the jamb fins into the extruded grooves on each side of the window by sliding the fin in from the bottom of the window. The jamb fin should end flush with the top of the window head fin.

As the wall panels are installed, locate the jamb stiffeners at the wall panel major ribs at the desired window locations. Attach the jamb stiffeners to the girt and base members with Fastener #12A, see Jamb Stiffener/Window Isometric. Locate and mark window opening from the outside of the building, see Panel Cutout table for cutout width and height. Make sure the panel cutout height is correct and the panels are cut square. Push the window up until the window head contacts the upper wall panels. Make sure the window is square and level. Attach window unit with jamb fins installed to the jamb stiffeners with Fastener #12A at each corner. Apply Urethane Tube Sealant HW540 to both jamb fins, see Jamb Stiffener/Window Isometric.

Apply Urethane Tube Sealant HW540 to both sides of the inside panel closure and insert the closures between the wall panel and insulation at the window head and sill. See Section B.

Attach window head and sill to wall panels with #17A Fasteners at a 5", 7", 5" O.C., see Fastener Spacing at Window Head and Sill. Note: Fasteners are installed from the inside of the building at the window sill. Attach wall panels to window jamb fins/jamb stiffeners with Fastener #17A at 1'-0" O.C., see Section A.

Apply Urethane Tube Sealant HW540 along both sides between the window jambs and the wall panel to close any gaps. From the outside apply a continuous bead around the outside of the panel profile at the panel base, see Section B.

Install Snap-On Trim E86 at each jamb.

**Vinyl Insulation Retainer Notes:**  
The optional Vinyl Insulation Retainer V03 can be installed before or after the window is installed. Install the retainer into the groove on the four interior sides, see Sections A and B. Notch back the tongue of the retainer at least 1/2" on both ends of either the horizontal or vertical retainers, this will allow the retainers to overlap at the four corners.

Panel Cutout			Panel Cutout		
Horizontal Slide			Fixed		
Window ID	Cutout Width	Cutout Height	Window ID	Cutout Width	Cutout Height
HS2016	1'-10"	1'-6 1/2"	FW1070	0'-10"	7'-0 1/2" (*)
HS3020	2'-10"	2'-0 1/2"	FW2056	1'-10"	5'-6 1/2"
HS3030	2'-10"	3'-0 1/2"	FW2060	1'-10"	6'-0 1/2"
HS3040	2'-10"	4'-0 1/2"	FW2070	1'-10"	7'-0 1/2" (*)
HS4030	3'-10"	3'-0 1/2"	FW3040	2'-10"	4'-0 1/2"
HS4040	3'-10"	4'-0 1/2"	FW4040	3'-10"	4'-0 1/2"
HS5030	4'-10"	3'-0 1/2"			
HS6020	5'-10"	2'-0 1/2"			
HS6030	5'-10"	3'-0 1/2"			
HS6040	5'-10"	4'-0 1/2"			
Single Hung					
Window ID	Cutout Width	Cutout Height			
H3030	2'-10"	3'-0 1/2"			
H3040	2'-10"	4'-0 1/2"			
H3050	2'-10"	5'-0 1/2"			

(\*) Dimension is from baseline

Details shown are for horizontal slide windows. Single hung and fixed window installation details are similar.

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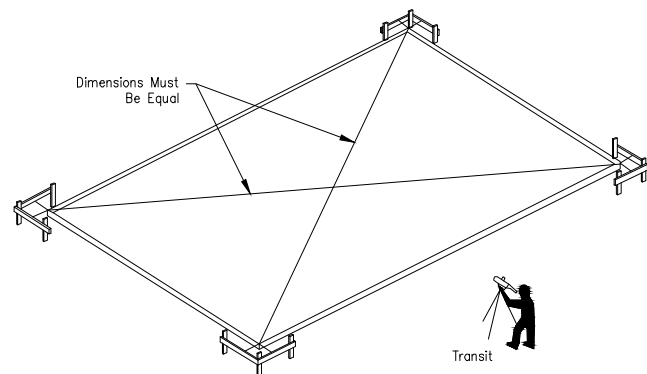
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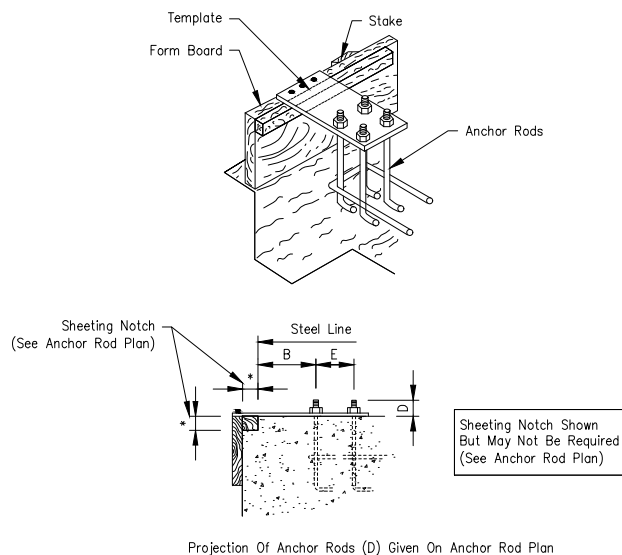


### Building Anchorage

- To Determine That The Foundation Is Square, Measure Diagonal Dimensions To Be Sure They Are Of Equal Length.
- To Determine That The Foundation Is Level, Set Up A Transit Or Level And Use A Level Rod To Obtain The Elevation At All Columns.
- Carefully Check The Location Of All Anchor Rods Against The Anchor Rod Setting Plan Furnished By The Manufacturer. All Dimensions Must Be Identical To Assure A Proper Start-up.



It Is Extremely Important That Anchor Rods Are Placed Accurately And In Accordance With The Anchor Rod Setting Plan. All Anchor Rods Should Be Held In Place With A Template Or Similar Means, So That They Will Remain Plumb And In Correct Location During The Placement Of The Concrete. A Final Check Should Be Made After Completion Of The Concrete Work And Prior To The Steel Installation. This Will Allow Necessary Corrections To Be Made Before Costly Installation Labor And Equipment Arrives.

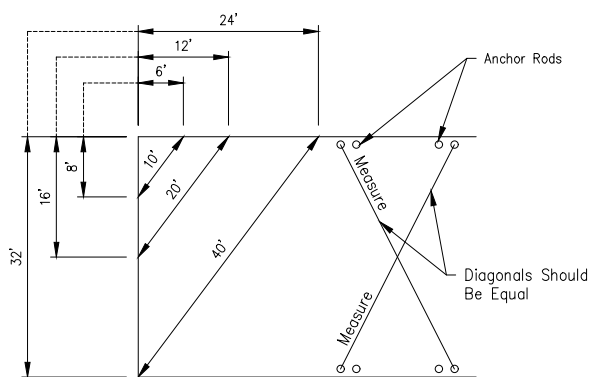


### Pre-Erection Notes:

The Following Notes, Procedures And Suggested Recommendations Are Important Parts Of The Pre-Erection Process.

- Prior To The Time The Erection Crew Arrives, A Responsible Person Should Check The Job Site For Foundation Readiness, Square, And Accuracy And Anchor Rod Size And Location.

The Drawing Shown Below Indicates A Method Which May Be Used To Check The Foundation And Bolts For Square.

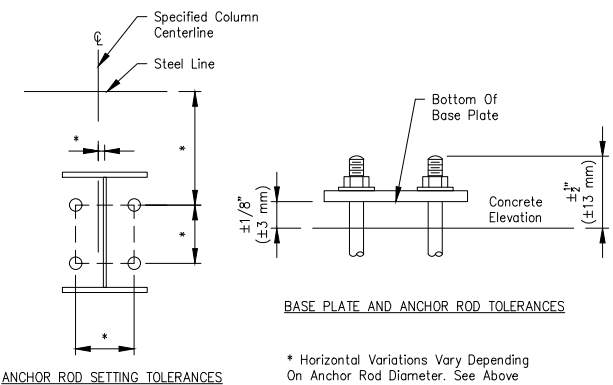


Measure Along Adjacent Sides Of Foundation Using A Pair Of Dimensions Shown. If The Diagonal Distance Between These Points Is As Noted, The Corner Is Square. Diagonal Measurements Between Opposite Anchor Rods Will Indicate If These Bolts Are Set Square.

### AISC Code Of Standard Practice For Steel Building And Bridges Tolerances For Setting Anchor Rods

Anchor Rod Diameter, Inches (mm) \*Horizontal Variation, Inches (mm)

$\frac{3}{4}$ " and $\frac{7}{8}$ " (19 And 22 mm)	$\frac{1}{4}$ " (6 mm)
1", $1\frac{1}{4}$ ", $1\frac{1}{2}$ " (25, 31, 38 mm)	$\frac{3}{8}$ " (10 mm)
$1\frac{3}{4}$ ", 2", $2\frac{1}{2}$ " (44, 50, 63 mm)	$\frac{1}{2}$ " (13 mm)

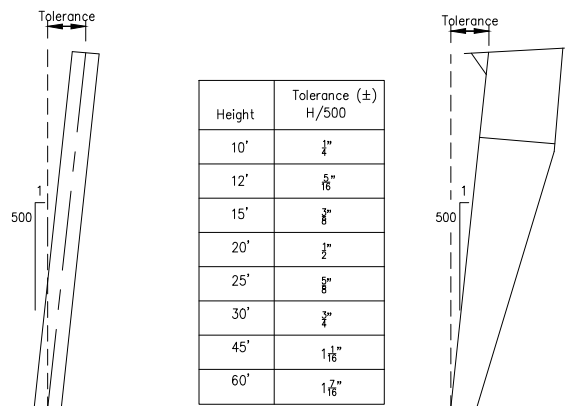


### Erection Tolerances

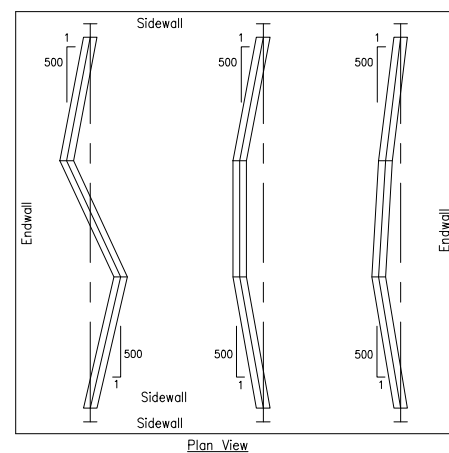
#### ERECTION BRACING:

It Is The Responsibility Of The Erector To Determine, Furnish And Install All Temporary Supports Such As Temporary Guys, Beams, Falsework, Cribbing, Or Other Elements Required For The Erection Operation (In Accordance With Section 7.10.3 Of ANSI/AISC 303, Code Of Standard Practice For Steel Building And Bridges).

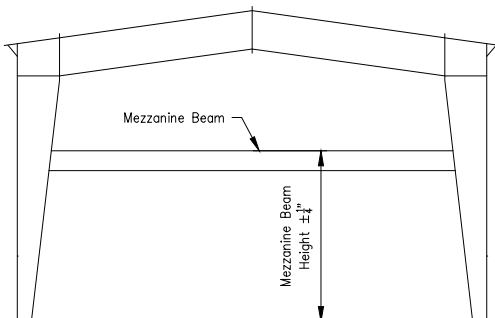
#### COLUMN ALIGNMENT TOLERANCES



#### ALIGNMENT TOLERANCE FOR MEMBERS WITH FIELD SPLICES



#### MEZZANINE BEAM HEIGHT TOLERANCE



### General Erection Notes

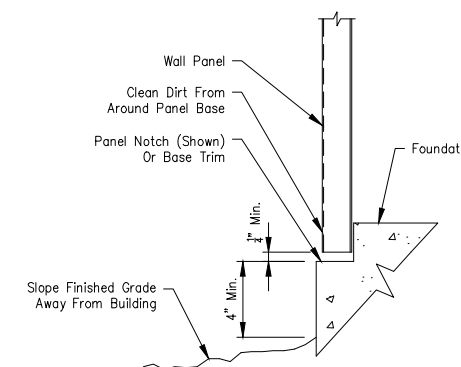
1.) All Structural Framing Members, Purlins, Girts, Clips, Flange Braces, Bolts, Bracing Systems, Roof And Wall Panels, Etc. Must Be Installed As Shown On Erection Drawings.

2.) It Is Extremely Important, Especially During Construction, That Panels At The Eaves, Rakes And Ridges Be Kept Secure.

### Panel Cautions And Notes

To Minimize Potential Of Corrosive Action At The Bottom Edge Of Wall Panels, The Contractor Must Assure That The Following Procedures Are Followed:

- The Concrete Foundation Should Be Cured For A Minimum Of Seven (7) Days Before Wall Panels Are Installed. (Uncured Concrete Is Highly Alkaline And Metal Panels Can Undergo Varying Degrees Of Corrosive Attack When In Direct Contact With The Concrete.) After The First Week Of The Curing Cycle, The Reaction Between Metallic Coatings On Steel And The Concrete Is Essentially Halted.
- Top Of Finish Grade At Building To Be A Minimum Of Four (4) Inches Below Bottom Of Panel.
- Finish Grade Is To Slope Away From Building To Ensure Proper Drainage.
- Upon Completion Of Finish Grading, All Dirt Is To Be Cleaned From Around Base Of Wall Panel Where It May Have Collected In Panel Notch Or On Base Trim.



### Fastener Installation

Correct Fastener Installation Is One Of The Most Critical Steps When Installing Roof/Wall Panels. Drive The Fastener In Until It Is Tight And The Washer Is Firmly Seated. Do Not Overdrive Fasteners.

A Slight Extrusion Of Neoprene Around The Washer Is A Good Visual Tightness Check. Always Use The Proper Tool To Install Fasteners. A Fastener Driver (Screw Gun) With A RPM Of 1700-2000 Should Be Used For Self-Drilling Screws. A 500-600 RPM Fastener Driver Should Be Used For Self-Tapping Screws. Discard Worn Sockets, These Can Cause The Fastener To Wobble During Installation.

Note: Always Remove Metal Filings From Surface Of Panels At The End Of Each Work Period. Rusting Filings Can Destroy The Paint Finish And Void Any Warranty.



### Tape And Tube Sealant

Proper Tape And Tube Sealant Application Is Critical To The Weather Tightness Of A Building. Tape Sealant Should Not Be Stretched When Installed. Apply Only To Clean, Dry Surfaces. Keep Only Enough Sealants On The Roof That Can Be Installed In A Day. During Warm Weather, Store Sealants In A Cool Dry Place. During Cold Weather (below 60°) Sealants Must Be Kept Warm (60°-90°) Until Application. After Tape Sealant Has Been Applied, Keep Protective Paper In Place Until Panel Is Ready To Be Installed.

### Important Note

All Details, Recommendations And Suggestions Contained In This Erection Guide Of This Drawings Set Are For General Guidelines Only, And Not Meant To Be All-inclusive. Industry Accepted Installation Practices With Regard To All Areas Not Specifically Discussed In This Section Should Be Followed. Only Experienced, Knowledgeable Installers Familiar With Accepted Practices Should Be Used To Assure A Quality Project.

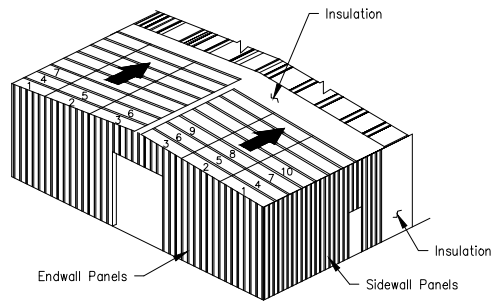
It Is Emphasized That The Manufacturer Is Only A Manufacturer Of Metal Building Components And Is Not Engaged In The Installation Of Its Products. Opinions Expressed By The Manufacturer About Installation Practices Noted In The Erection Guide Are Intended To Represent Only A Guide. Both The Quality And Safety Of Installation And The Ultimate Customer Satisfaction With The Completed Building Are Determined By The Experience, Expertise, And Skills Of The Installation Crews, As Well As The Equipment Available For Handling The Materials. Actual Installation Operations, Techniques And Site Conditions Are Beyond The Manufacturers Control.

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**PBR Roof Panels**

For PBR Roofs With Ridge Panels, It Is Recommended That Both Sides Of The Ridge Be Sheeted Simultaneously. This Will Keep The Insulation Covered For The Maximum Amount Of Time And The Panel Ribs Can Be Kept In Proper Alignment For The Ridge Panel. This Is Critical On The PBR Panels So That The Ridge Caps Can Be Properly Installed. Check For Proper Coverage As The Sheeting Progresses.



Install The First Run Of Roof Panels Across The Building From Eave To Eave Or Eave To Ridge. To Allow Proper Installation Of The Rake Trim, The Starting Location For The First Panel Must Be As Shown In The Rake Details Included With The Erection Drawings. When The First Run Is Properly Located And Aligned With The Correct Endlaps And Eave Overhangs, Fasten To Purlins. Roof Panels Should Be Installed So That The Sidelap Is In A Direction Away From Prevailing Wind. Refer To Appropriate Lap Details Included With The Erection Drawings.

Install Remaining Roof Insulation And Panels. To Avoid Accumulative Error Due To Panel Coverage Gain Or Loss, Properly Align Each Panel Before It Is Fastened. Occasional Checks Should Be Made To Ensure That Correct Panel Coverage Is Maintained. Special Attention Should Be Given To Fastener, Sealant And Closure Requirements. Refer To Details Included With The Erection Drawings.

At Finishing End Of Roof, The Last panels May Require Field Modification For Installation Of Rake Trim. Refer To Rake Details Included With The Erection Drawings. DO NOT BACK LAP THROUGH FASTENED ROOF PANELS.

**NOTE:** Roof Types And Installation Requirements Will Vary. Refer To The Appropriate Details For Specific Panel Used.

**IMPORTANT:** Loose Fasteners, Blind Rivets, Drill shavings, Etc.. Must Be Removed From The Roof To Guard Against Corrosion.

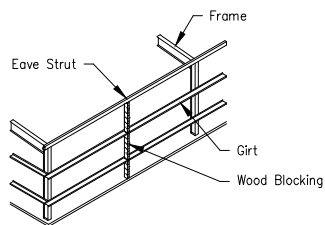
**Wall Panels**

Proper Horizontal And Vertical Alignment Of Supporting Structure (Girts Or Other Framing) Is The Responsibility Of The Installer. Failure To Align The Secondary members Properly Prior To Wall Installation Can Have A Direct Impact On The Final Appearance And Performance Of The Installed Wall System For Which The Metal Building Manufacturer Is Not Responsible.

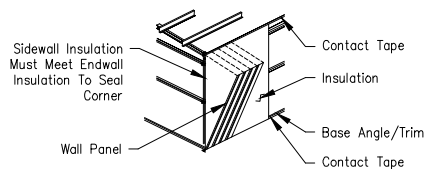
Before Installing Wall Panels, The Girts Must Be Aligned To A Level Position So That There Is No Visible Sag. This Should Be Done Directly Ahead Of Panel Installation.

Girt Leveling May Be Accomplished By Standing A Section Of Gable Angle Vertically Against The Outside Girt Flanges At Approximate Mid-bay Location. When Girts Are Level, Attach The Girt Flanges To The Angle With Vise Grip Pliers Or Temporary Screws. Wood Blocking Cut To Fit The Spaces May Also Be Used For Alignment.

**Note:** Temporary Girt Blocking Is Not Recommended On Concealed Fastener Panels. The Removal Of The Blocks After Panel Installation Can Cause Oil Canning.



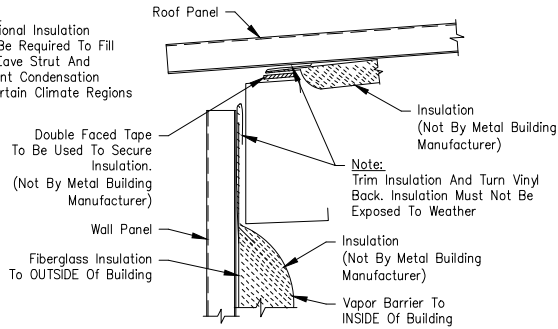
**Note:** Wall Panel Type And Installation Details Will Vary. Refer To The Erection Drawings And Details For The Specific Panel Used For Your Building.



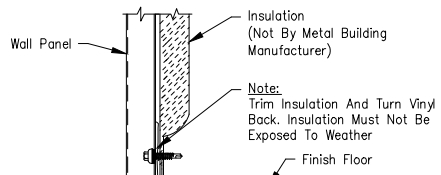
If Walls Are To Be Insulated With Blanket Insulation Over Girt Girt Flanges, Base And Eave, Place A Continuous Run Of Contact Tape Along The Eave Strut And Base Member.

**Note:** At The Base, Cut Off The Insulation A Minimum Of 1/2" Above The Bottom Of The Wall Panel. This Will Prevent The Insulation From Hanging Below The Wall Panel And Wicking Moisture.

**Note:** Additional Insulation May Be Required To Fill The Eave Strut And Prevent Condensation In Certain Climate Regions



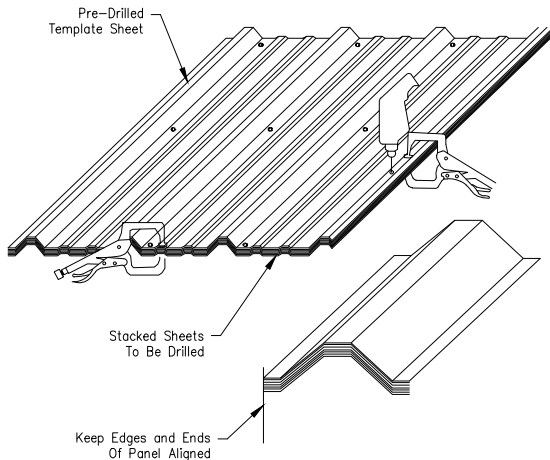
**Eave Detail**  
(See Erection Drawings)



**Base Detail**  
(See Erection Drawings)

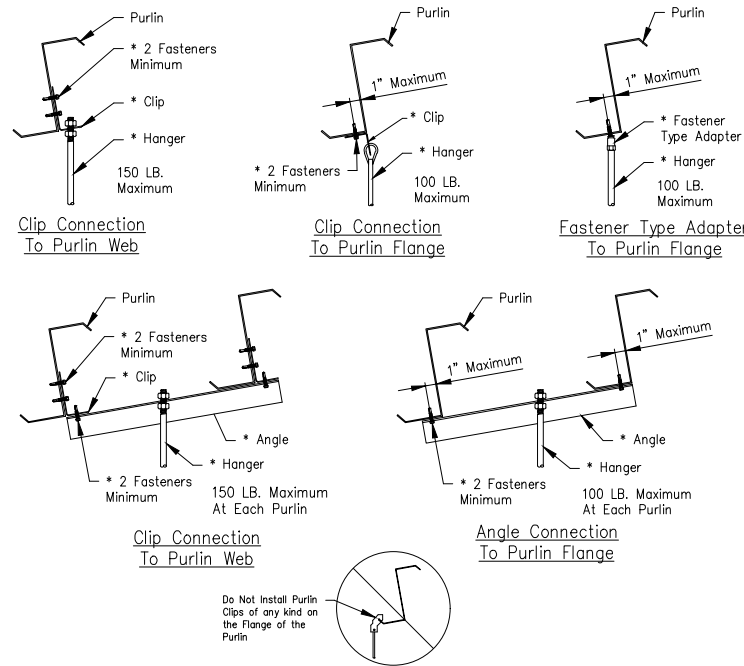
Sidewall Panels Should Be Installed So That The Panel Sidelap Is In A Direction Away From The Prevailing Wind. Refer To Appropriate Lap Detail Included With Erection Drawings.)

**Note:** Check Periodically To Ensure That All Panels Are Aligned And Plumb.



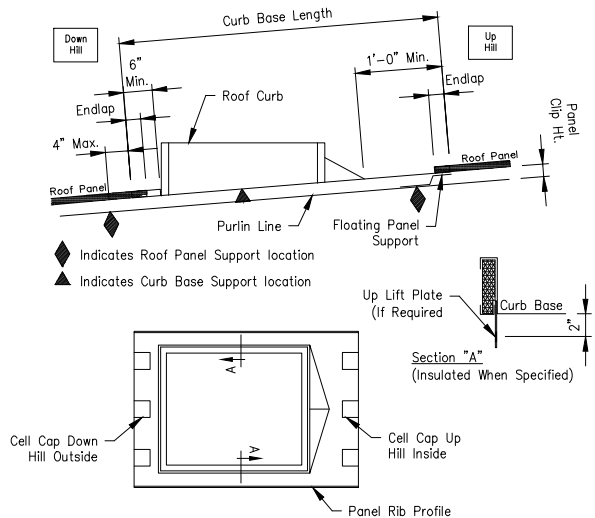
**Note:** After Drilling Panels, It Is Important To Clean Metal Filings Off All Panel Surfaces, Including Between Panels That Are Not Installed That Day, To Avoid Rust Stains.

**Suggested Method Of Purlin Attachment For Building Accessories**



\* Denotes Material Not Provided By Metal Building Manufacturer.  
The Total Hanger Load Shall Not Exceed The Design Collateral Load For The Building. Example:  
5'-0" (Purlin Spacing) X 5'-0" (Hanger Spacing) X 6 PSF (collateral Load) = 150 Lbs.  
See Cover Sheet For Design Collateral Load For This Building.  
**Note:** If The Building Is Designed For 0 PSF Collateral Load, Then Adding Any Suspended System (i.e. Duct Work, Piping, Lights, Ceilings, Etc.) Will Correspondingly Reduce The Design Live Load.

**Roof Curbs When Not Supplied By Building Manufacturer**



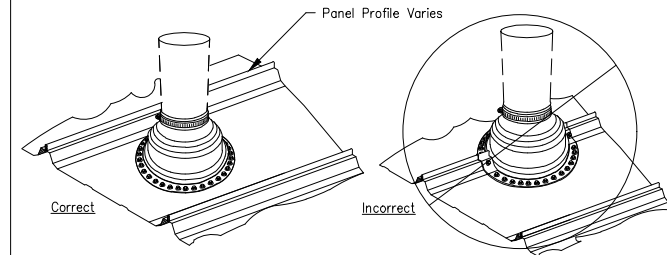
The Curb Details Shown Illustrate The Building Manufacturers Recommended Curb Style And Installation Method. It Is The Erector/Installer's Responsibility To Provide The Proper Curb Style And Install Them In Accordance With The Procedures Established By These Details. Failure By The Erector/Installer To Follow These Recommendations May Result In The Curbs Damaging The Roof System Or Excluded From Warranties.

- All Roof Curbs To Be:
- .080 Aluminum Or 18 Ga. Stainless Steel (No Galvalume® Or Galvanized).
  - Panel Rib To Panel Rib (No Flat Skirt Or Lay-Over Curbs).
  - Installed With Down Hill End Over Panel And Up Hill End Under Panel Application For Water Flow At Panel Splice.
  - Up Lift Prevention For Clip Applied Roof Systems Are Required If:
    - Wind Loads Exceed 110 MPH.
    - Curb Base Crosses A Purlin.
  - Supported on (4) Sides By Primary Or Secondary Framing.
  - Maximum Single Curb Weight Recommended Is 1500 Lbs.

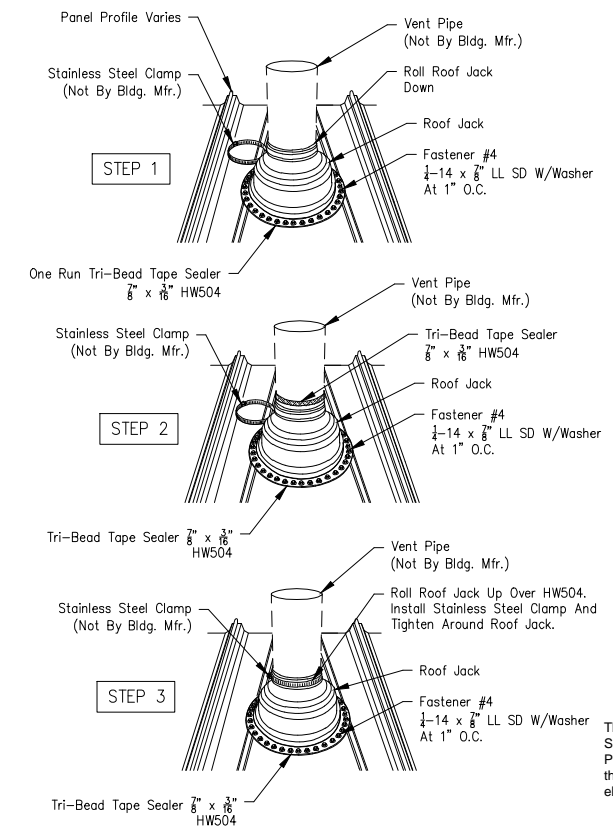
**Roof Jack Installation when Not Supplied By Building Manufacturer**

**General Installation Notes**

- Do Not Use Galvanized Roof Jacks, Lead Hats, Or Other Residential Grade Roof Jacks. These Roof Jacks Do Not Have 20 Year Service Life And In Case Of Lead Hats Will Cause Galvanic Corrosion Of The Roof Panel.
- Use EPDM Rubber Roof Jacks With An Integral Aluminum Band Bonded Into The Perimeter Of The Base. EPDM Roof Jacks Have A Temperature Range From -65°F To 212°F. Use Silicone Roof Jacks For High Temperatures. Silicone Roof Jacks Have A Temperature Range Of -100°F To 437°F.
- Retrofit Roof Jacks Are Available For Applications In Which The Top Of The Pipe Is Inaccessible, Eliminating The Possibility Of Sliding The Roof Jack Over The Top Of The Pipe.
- Do Not Use Tube Sealant To Seal The Roof Jack To The Roof Panels. Use Roll Tape Sealer Between The Roof Jack And The Roof Panel And Attach The Roof Jack To The Roof Panel With Fastener #4 1/4" x 3/8" LL SD W/washer At 1" O.C. Around The Base Of The Roof Jack. See Table Below For Quantities.
- Trim The Top Of The Roof Jack To Fit Over The Pipe, Roll Down The Roof Jack Over The Pipe And Apply Tape Sealer For The Perimeter Of The Roof Jack Base Between The Roof Jack And The Roof Panel. Apply Tape Sealer Around The Pipe And Install A Stainless Steel Clamp (Not By Bldg. Mfr.) Over The Top Of The Roof Jack And Firmly Tighten To Form A Secure Compression Seal.
- If The Pipe Diameter Is So Large To Block The Flow Of Water Down The Roof Panel, A Flat Base Roof Curb Must Be Installed Into The Roof And The Roof Jack Will Be Sealed To The Curb. A Two Piece Curb May Be Required When The Top Of The Pipe Is Inaccessible.
- In Northern Climates, The Pipe Penetration Should Be Protected From Moving Ice Or Snow With A Snow Retention System Immediately Up Slope From The Pipe.



Install Pipe In Center To Allow Base Of Roof Jack To Lay Flat on Panel. Cannot Encompass More Than 75% Of Panel.



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