

Re: Sheet 2

AIRPORT SITE PLAN
SCALE: 1" = 40'-0"

INDEX

- 1 OVERALL AIRPORT SITE PLAN
- 2 FIRE STATION SITE PLAN
- 3 PLANS, ELEVATIONS, SECTIONS
- FD1 FOUNDATION PLAN
- FD2 FOUNDATION DETAILS

CODE ANALYSIS

AS PER INTERNATIONAL BUILDING CODE (2015):
 OCCUPANCY TYPE (CH. 3): S (EQUIPMENT STORAGE)
 TYPE OF CONSTRUCTION (CH. 6): TYPE V-B
 OCCUPANT LOAD (TABLE 1004.1.2):
 FLOOR AREA 2,250 S.F. @ Occupants
 ALLOWABLE FLOOR AREA (CH. 5):
 Basic Allowable Area: 13,500 s.f.
 ACTUAL BUILDING AREA: 2,250 s.f.

LEGEND

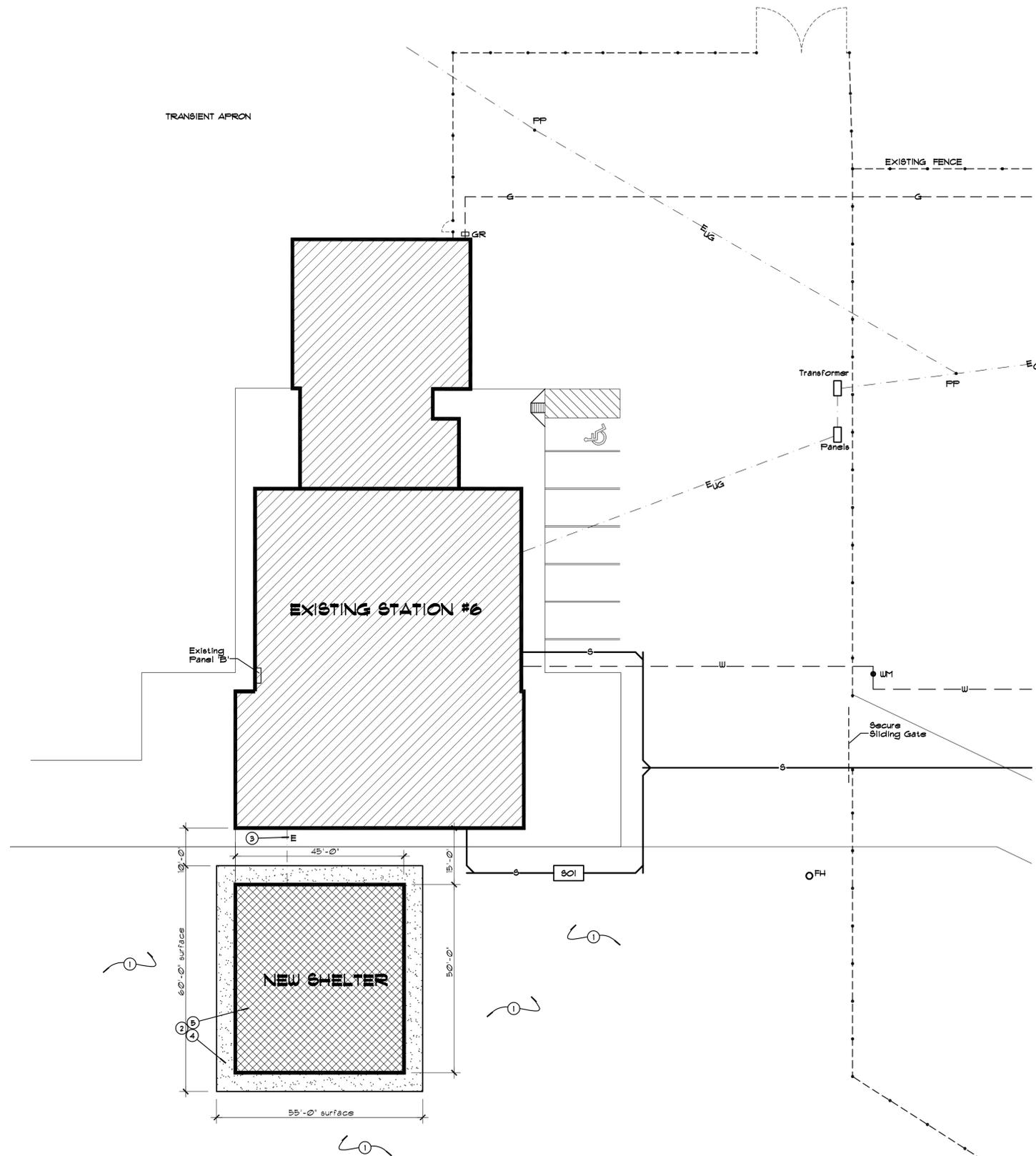
- NEW BUILDING
- EXISTING BUILDING TO REMAIN
- EXISTING FENCE
- EXISTING CONCRETE SIDEWALK TO REMAIN
- WATER LINE
- GAS LINE
- GROUND-MOUNTED TRANSFORMER
- ELECTRIC - OVERHEAD
- ELECTRIC - UNDERGROUND
- SANITARY SEWER LINE
- TELEPHONE LINE
- EXISTING GAS METER
- SAND & OIL INTERCEPTOR
- POWER POLE
- LIGHT POLE
- TELEPHONE POLE
- WATER METER
- MANHOLE
- VALVE
- FIRE HYDRANT



MCA Mitchell & Cruse Architecture
 phone: (575) 689-8400
 website: www.mitchellcruse.com
 102 N. Canyon Carlsbad, NM 88220
 e-mail: mca@mitchellcruse.com

A NEW SHELTER AT THE CARLSBAD FIRE STATION #6
 1300 TERMINAL DR. CARLSBAD, NEW MEXICO

JOB NUMBER: 2208
 DATE: 10-10-22
 DRAWN BY: L.M.
 FILE NAME: PS #6 Shelter
 SHEET NUMBER: 1
 OF 3 SHEETS



SITE PLAN
SCALE: 1/16" = 1'-0"

LEGEND

- NEW BUILDING
- EXISTING BUILDING TO REMAIN
- NEW ASPHALT SURFACE (Base Bid)
- EXISTING FENCE
- EXISTING CONCRETE SIDEWALK TO REMAIN
- WATER LINE
- GAS LINE
- GROUND-MOUNTED TRANSFORMER
- ELECTRIC - OVERHEAD
- ELECTRIC - UNDERGROUND
- SANITARY SEWER LINE
- TELEPHONE LINE
- GAS REGULATOR
- SAND & OIL INTERCEPTOR
- POWER POLE
- LIGHT POLE
- TELEPHONE POLE
- WATER METER
- MANHOLE
- VALVE
- FIRE HYDRANT

NOTES:

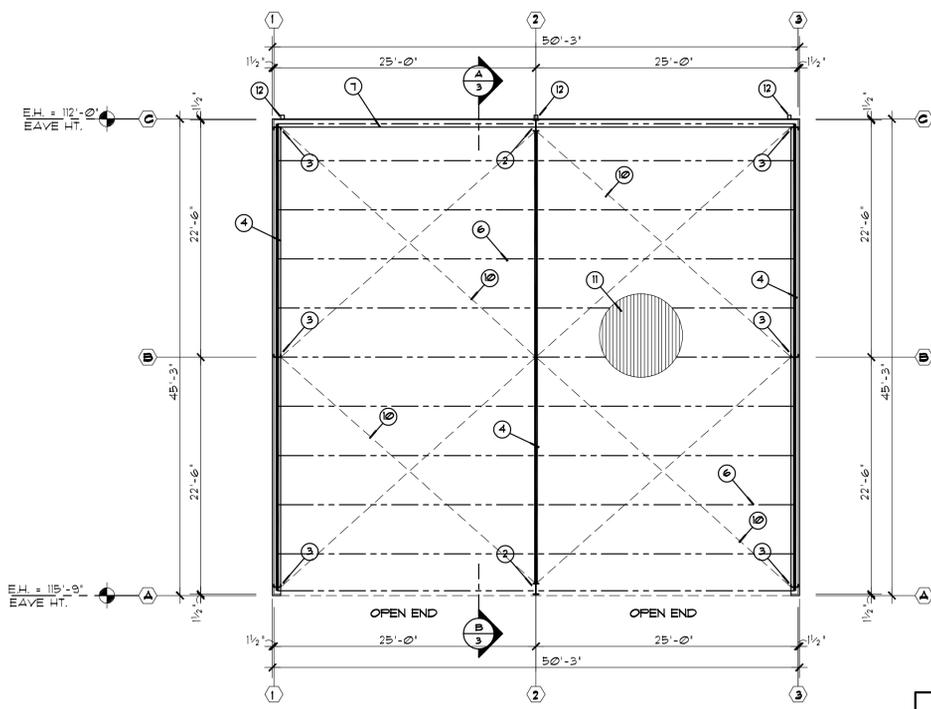
- 1 EXISTING CHAT / ENGINEERED FILL SURFACE TO REMAIN.
- 2 REMOVE PORTION OF SURFACE FOR EXCAVATION OF SUB-GRADE AND FORMS FOR FOOTINGS.
- 3 ELECTRICAL CONNECTIONS SHALL BE EXTENDED FROM EXISTING PANEL IN THE ADJACENT FIRE STATION.
- 4 BASE BID: 5' ASPHALT ON 6" THICK COMPACTED FILL. EXTEND 5'-0" AROUND BUILDING PERIMETER. (SLOPE 1% MIN. SOUTHERLY DIRECTION).
ALTERNATE #1: 1" THICK CONCRETE SLAB ON 6" THICK COMPACTED FILL. REINFORCE WITH #4s @ 12" O.C. E.W. AND EXTEND 5'-0" AROUND PERIMETER. (SLOPE 1% MIN. SOUTHERLY DIRECTION).
- 5 NEW METAL BUILDING STRUCTURE.



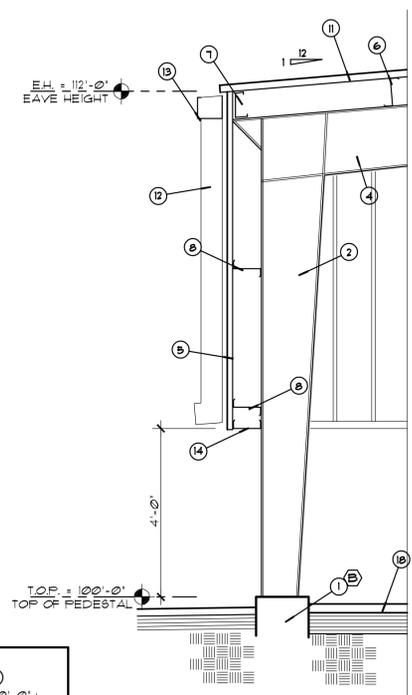
Mitchell & Cruse Architecture
 phone: (575) 689-8400
 website: www.mitchellcruse.com
MCA
 102 N. Canyon Carlsbad, NM 88220
 e-mail: mca@mitchellcruse.com

A NEW
SHELTER
 AT THE
CARLSBAD FIRE STATION #6
 1300 TERMINAL DR. CARLSBAD, NEW MEXICO

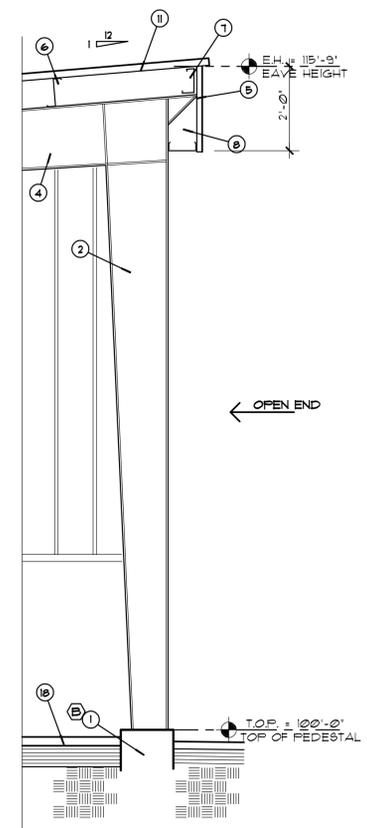
JOB NUMBER:
22.03
 DATE:
10-10-22
 DRAWN BY:
L.M.
 FILE NAME:
FS #6 Shelter
 SHEET NUMBER:
2
 OF 3 SHEETS



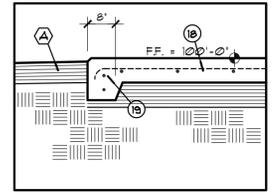
FRAMING PLAN
SCALE: 1/8" = 1'-0"



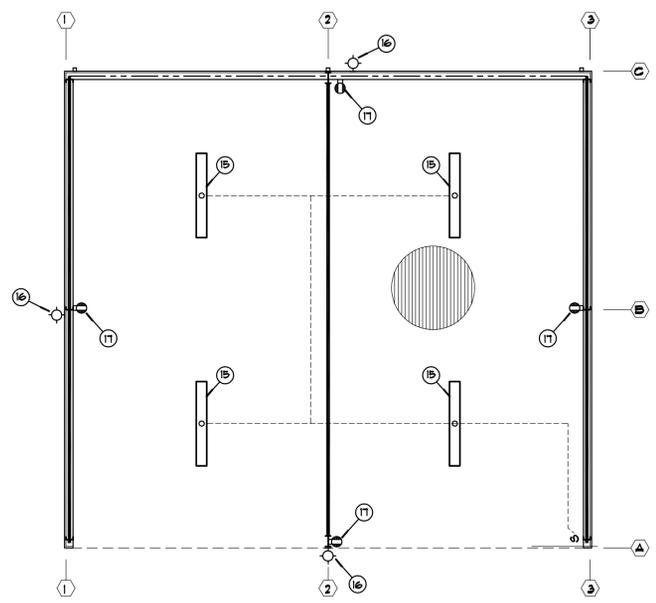
WALL SECTION A
SCALE: 1/2" = 1'-0"



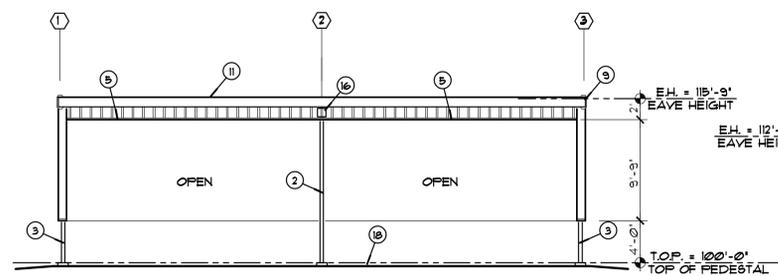
WALL SECTION B
SCALE: 1/2" = 1'-0"



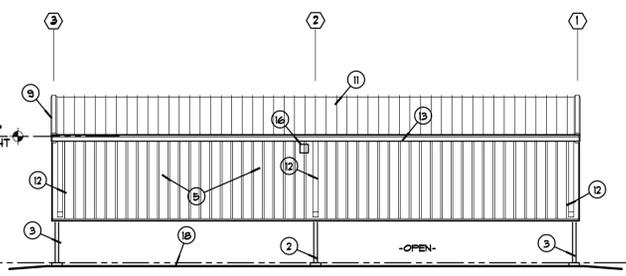
THICKENED SLAB
SCALE: 1/2" = 1'-0" (ALT. #1)



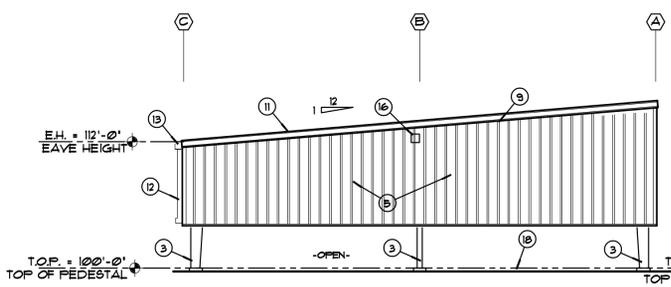
ELECTRICAL PLAN
SCALE: 1/8" = 1'-0"



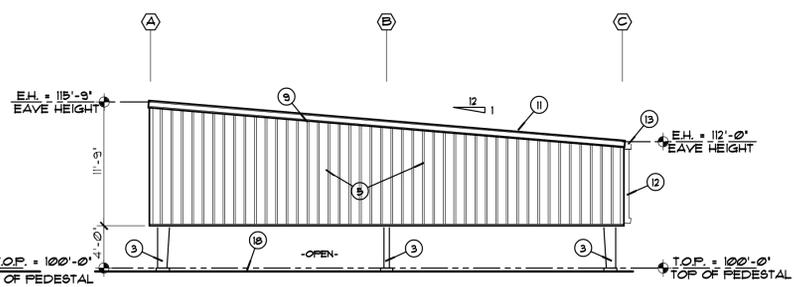
EAST ELEVATION
SCALE: 1/8" = 1'-0"



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



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



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

METAL BUILDING PACKAGE SHALL BE DESIGNED AND MANUFACTURED BY: STANDARD STRUCTURES, Inc. (SS1), MUELLER, Inc. OR APPROVED EQUAL.

NOTES:

- (A) EXISTING CHAT SURFACE TO REMAIN.
 - (B) REMOVE PORTION OF SURFACE FOR EXCAVATION OF SUB-GRADE AND FORMS FOR FOOTINGS
 - (C) ELECTRICAL CONNECTIONS SHALL BE EXTENDED FROM EXISTING PANEL 'B'.
- 1 FOOTING AS PER FOUNDATION PLAN & DETAILS.
 - 2 METAL BUILDING MAIN FRAME COLUMN.
 - 3 METAL BUILDING ENDWALL COLUMN.
 - 4 METAL BUILDING MAIN FRAME / ENDWALL RAFTER.
 - 5 METAL BUILDING WALL PANELS (26 GA. 'R' PANELS)
 - 6 METAL BUILDING 'Z' ROOF PURLIN - 8"
 - 7 METAL BUILDING 8" 'C' CHANNEL EAVE STRUT AND TRIM.
 - 8 METAL BUILDING 'Z' WALL GIRTS.
 - 9 METAL BUILDING GABLE END TRIM.
 - 10 ROD BRACING AS REQUIRED BY MBM
 - 11 METAL BUILDING STANDING SEAM ROOF PANELS (26 GA) ATTACH TO PURLINS w/ CLIP ATTACHMENT.
 - 12 4" x 4" 24 GA. COLORCLAD METAL DOWNSPOUT (RETURN TO WALL) WITH STRAP ANCHORS AT 48" O.C.
 - 13 6" x 8" 24 GA. COLORCLAD METAL EXTERIOR EAVE GUTTER WITH CLIPS AT 48" O.C.
 - 14 METAL BUILDING WALL PANEL 'C' GIRTS
 - 15 NEW STRIP LIGHT FIXTURE; Metalux 8BLBLED-LD4-9-8YMW WIRE TO AN OCCUPANCY SENSOR
 - 16 NEW WALL PACK LIGHT FIXTURE; McGraw-Edison Impact Elite LED 8C-SAIC-T22-U-T4W-BZ
 - 17 NEW ELECTRICAL GFCI (weatherproof) OUTLET.
 - 18 BASE BID: 5" ASPHALT ON 6" THICK COMPACTED FILL. EXTEND 5'-0" AROUND BUILDING PERIMETER (SLOPE 1% MIN. SOUTHERLY DIRECTION).
- ALTERNATE #1: 1" THICK CONCRETE SLAB ON 6" THICK COMPACTED FILL. REINFORCE SLAB WITH #4 REBAR AT 12" O.C. E.W. EXTEND 5'-0" AROUND BLDG PERIMETER (SLOPE 1% MIN. SOUTHERLY DIRECTION).
- 19 8" x 12" THICKENED SLAB EDGE WITH (2) #4'S CONT. (ALTERNATE #1 ONLY)

FRAMING LEGEND:

- STRUCTURAL BEAM / RAFTER SIZE AS PER METAL BUILDING MANUFACTURER (M.B.M.)
- ROOF PURLINS: SIZE AND SPACING AS PER M.B.M.
- ROD OR GABLE BRACING (ROOF OR WALL) AS PER M.B.M.
- CONDUIT FROM LIGHT FIXTURES AS PER M.B.M.
- INDICATES EAVE HEIGHT OR CONCRETE FINISH FLOOR
- COLUMN AND GRID IDENTIFICATION SYSTEM
- SECTION/DETAIL LETTER SHEET NUMBER



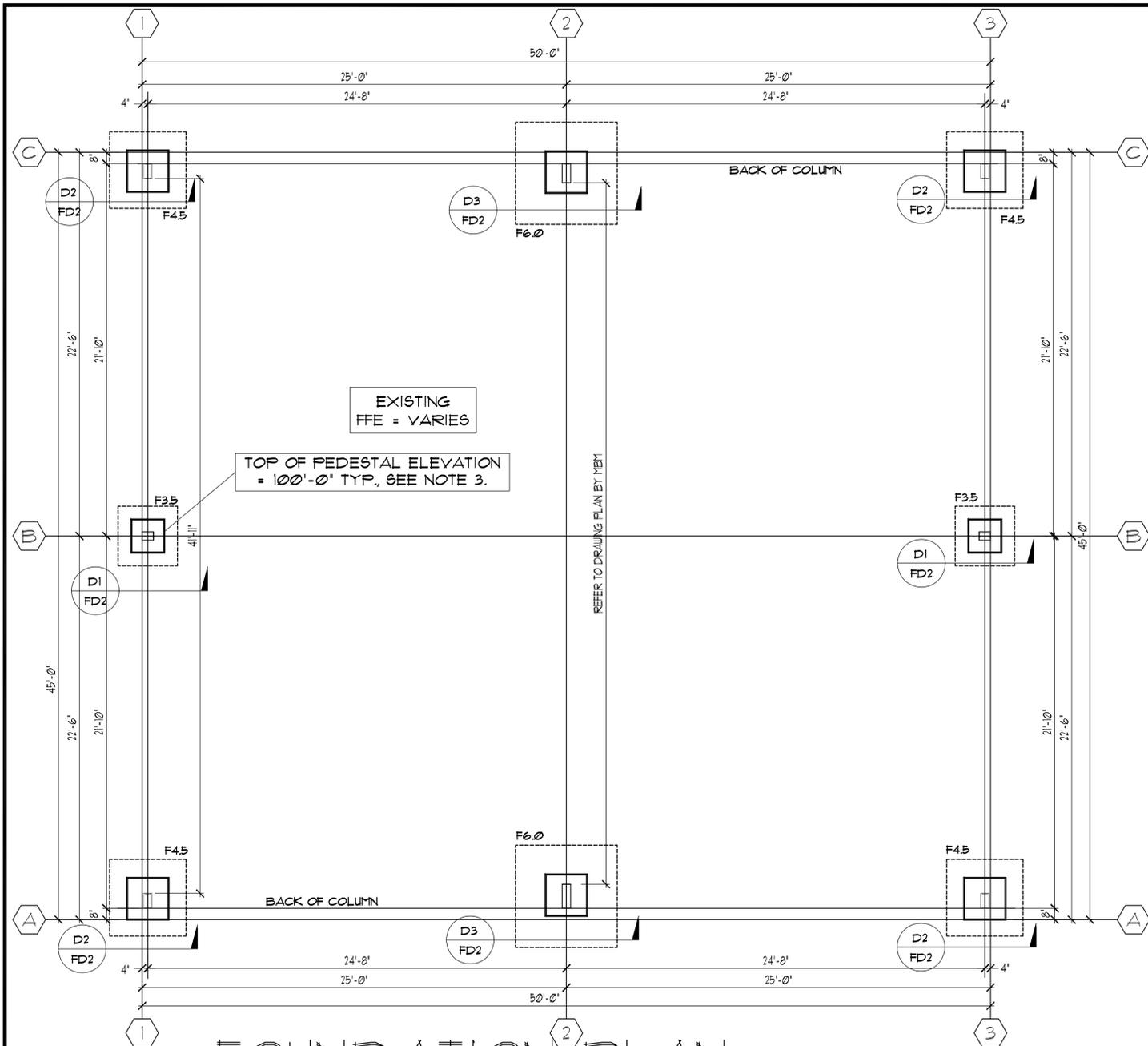
Mitchell & Cruse Architecture
phone: (575) 689-8400
website: www.mitchellcruse.com

MCA
102 N. Canyon Carlsbad, NM 88220
e-mail: mca@mitchellcruse.com

4 NEW
SHELTER
AT THE
CARLSBAD FIRE STATION #6
1300 TERMINAL DR. CARLSBAD, NEW MEXICO

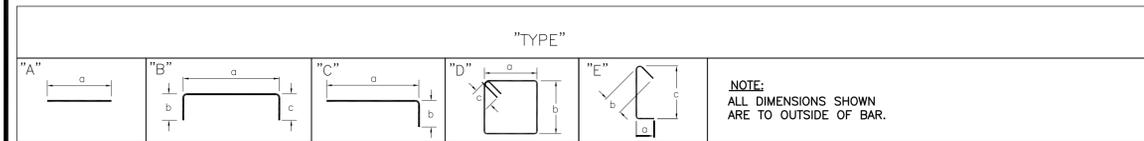
JOB NUMBER:	22-03
DATE:	10-18-22
DRAWN BY:	L.M.
FILE NAME:	FS #6 Shelter
SHEET NUMBER:	3

OF 3 SHEETS



FOUNDATION PLAN

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

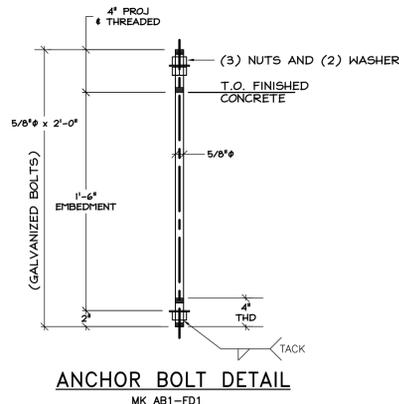


MARK NO.	DWG. NO.	NO. REQ'D.	TYPE	SIZE	LENGTH	DIMENSIONS					REMARKS
						a	b	c	d	e	
DET. 1	FD2	2 FOOTINGS									
FD1-01	-	8	A	#6	3'-0"	3'-0"	-	-	-	-	
FD1-02	-	8	B	#6	5'-8"	3'-0"	1'-4"	1'-4"	-	-	
FD1-03	-	8	C	#6	4'-11"	3'-11"	1'-0"	-	-	-	
FD1-04	-	5	D	#4	6'-9"	1'-6"	1'-6"	0'-4 1/2"	-	-	
FD1-05	-	8	E	#4	2'-3"	0'-4 1/2"	0'-4 1/2"	1'-6"	-	-	
DET. 2	FD2	4 FOOTINGS									
FD1-06	-	10	A	#6	4'-0"	4'-0"	-	-	-	-	
FD1-07	-	10	B	#6	6'-8"	4'-0"	1'-4"	1'-4"	-	-	
FD1-08	-	8	C	#7	5'-1"	3'-11"	1'-2"	-	-	-	
FD1-09	-	5	D	#4	8'-9"	2'-0"	2'-0"	0'-4 1/2"	-	-	
FD1-10	-	8	E	#4	2'-9"	0'-4 1/2"	0'-4 1/2"	2'-0"	-	-	
DET. 3	FD2	2 FOOTINGS									
FD1-11	-	14	A	#6	5'-6"	5'-6"	-	-	-	-	
FD1-12	-	14	B	#6	8'-2"	5'-6"	1'-4"	1'-4"	-	-	
FD1-13	-	8	C	#7	5'-7"	4'-5"	1'-2"	-	-	-	
FD1-14	-	6	D	#4	8'-9"	2'-0"	2'-0"	0'-4 1/2"	-	-	
FD1-15	-	10	E	#4	2'-9"	0'-4 1/2"	0'-4 1/2"	2'-0"	-	-	
FD1-16	-	4	B	#4	6'-4"	0'-8"	2'-10"	2'-10"	-	-	

MARK	QTY	SIZE	MATERIAL	COMPONENT DESCRIPTION	LENGTH
AB1-FD1	28	5/8"	ASTM F1554 GR 36	SMOOTH ROD THREADED ENDS (GALV. AFTER FAB)	2'-0"

ESTIMATED QUANTITIES:

DETAIL D1/FD2					
1. CONCRETE	3.0 CU. YDS.				
2. NO. 4 REBAR	104 L.F.				
3. NO. 6 REBAR	218 L.F.				
4. ANCHOR BOLTS	4				
DETAIL D2/FD2					
5. CONCRETE	8.5 CU. YDS.				
6. NO. 4 REBAR	265 L.F.				
7. NO. 6 REBAR	427 L.F.				
8. NO. 7 REBAR	163 L.F.				
9. ANCHOR BOLTS	16				
DETAIL D3/FD2					
5. CONCRETE	7.0 CU. YDS.				
6. NO. 4 REBAR	160 L.F.				
7. NO. 6 REBAR	385 L.F.				
8. NO. 7 REBAR	90 L.F.				
9. ANCHOR BOLTS	8				



KEYED NOTES:

- THE CONTRACTOR SHALL COORDINATE DIMENSIONS AND LOCATION OF FOOTINGS BASED ON THE DRAWINGS FROM THE METAL BUILDING MANUFACTURER.
- REFERENCE ELEVATION OF TOP OF PEDESTAL SET AT 100'-0"
- TO SET TOP OF PEDESTAL ELEVATION DETERMINE LOCATION OF COLUMNS TO BE PLACED ON SITE AT GRIDS: A/1, A/2, A/3, B/1, B/3, C/1, C/2, C/3. MEASURE EXISTING ELEVATION AT EACH COLUMN LOCATION. TOP OF PEDESTAL TO BE SET AT (2") TWO INCHES ABOVE HIGHEST MEASURED GRADE OF ALL COLUMN LOCATIONS.
- METAL BUILDING RIGID FRAME COLUMN (WITH ANCHOR BOLTS AS PER METAL BUILDING MANUFACTURER)
- METAL BUILDING ENDWALL/MIDWALL COLUMN (WITH ANCHOR BOLTS AS PER METAL BUILDING MANUFACTURER)
- ANCHOR BOLTS: LOCATION AS PER THE METAL BUILDING MANUFACTURER. SEE TABLE BELOW FOR GRADE, MINIMUM EMBEDMENT = 20 INCHES, AND FINISH REQUIREMENTS.
- FINISHED GRADE ELEVATION IS BASED ON EXISTING ELEVATION OF ASPHALT GRADE (VERIFY / COORDINATE WITH BASE FLOOD ELEVATION AND ANY ZONING REQUIREMENTS)
- COLUMN REACTIONS TO BE VERIFIED. LOADS FROM THE METAL BUILDING MANUFACTURER ARE ASSUMED TO BE ULTIMATE LOAD REACTION VALUES BASED ON THE 2015 IBC. WIND LATERAL AND UPLIFT LOADS ARE FACTORED BY A VALUE OF 0.6 FOR ALLOWABLE STRESS DESIGN.

FOOTINGS:

- F3.5 3'-6" x 3'-6" x 24" MONOLITHIC CONCRETE FOOTING WITH DOUBLE MAT OF (4) #6 AT 12" O.C. EACH WAY (ONE NEAR THE TOP AND ONE NEAR THE BOTTOM) WITH 2'-0" x 2'-0" x 2'-6" HIGH PEDESTAL. SEE DETAIL D1/FD2 FOR REINFORCING
- F4.5 4'-6" x 4'-6" x 24" MONOLITHIC CONCRETE FOOTING WITH DOUBLE MAT OF (5) #6 AT 12" O.C. EACH WAY (ONE NEAR THE TOP AND ONE NEAR THE BOTTOM) WITH 2'-6" x 2'-6" x 2'-6" HIGH PEDESTAL. SEE DETAIL D2/FD2 FOR REINFORCING
- F6.0 6'-0" x 6'-0" x 24" MONOLITHIC CONCRETE FOOTING WITH DOUBLE MAT OF (7) #6 AT 12" O.C. EACH WAY (ONE NEAR THE TOP AND ONE NEAR THE BOTTOM) WITH 2'-6" x 2'-6" x 3'-0" HIGH PEDESTAL. SEE DETAIL D3/FD2 FOR REINFORCING

GEOTECHNICAL:

- A GEOTECHNICAL REPORT OF THE EXISTING SOIL AND WATER TABLE CONDITIONS IS HIGHLY RECOMMENDED. COORDINATE FINDINGS WITH DETAILS AND NOTES. THE FOLLOWING ARE RECOMMENDATIONS:
- SUBGRADE SOILS BENEATH FOUNDATION AND SLABS SHOULD BE SCARIFIED, MOISTURE CONDITIONED, AND COMPACTED TO MINIMUM DEPTH OF 10 INCHES PRIOR TO PLACEMENT OF ENGINEERED FILL (COMPACTED TO 95% ASTM D-1557)
- A MINIMUM OF ONE (1) FEET OF LOW PERMEABILITY ENGINEERED FILL MATERIAL TO BE PLACED BELOW BOTTOM OF FOOTING ELEVATION
- THE ON-SITE SOILS MAY BE BLENDED WITH IMPORTED MATERIALS IN ORDER TO ACHIEVE THE GRADATION AND PLASTICITY REQUIREMENTS
- IMPORTED OR BLENDED MATERIAL TO BE TESTED PRIOR TO FILL PLACEMENT TO VERIFY COMPLIANCE WITH SPECIFICATIONS

LEGEND:

- MONOLITHIC CONCRETE FOOTING WITH SIZE AND REINFORCING AS PER SCHEDULE
- MONOLITHIC CONCRETE PEDESTAL WITH SIZE AND REINFORCING AS PER SCHEDULE
- COLUMN AND GRID IDENTIFICATION SYSTEM
- SECTION/DETAIL LETTER SHEET NUMBER

MATERIALS

- CONCRETE SHALL HAVE A MINIMUM 28 DAY COMPRESSIVE STRENGTH OF 3000 PSI. MAXIMUM AGGREGATE SIZE = 1 INCH.
- REBAR REINFORCING SHALL CONFORM TO THE FOLLOWING SPECIFICATIONS. ASTM DESIGNATION A615, DEFORMED BILLET STEEL F_y = 60,000 PSI, GRADE 60. REBAR SCHEDULE FOR INFORMATION ONLY. CONTRACTOR TO VERIFY ALL DIMENSIONS PRIOR TO FABRICATION.
- ANCHOR BOLTS SHALL BE ASTM F1554 GRADE 36 KSI RODS THREADED AT ENDS (SEE DETAIL), NUTS ASTM A563 GRADE A HEX, WASHERS ASTM F436, TYPE 1, ASSEMBLY TO BE HOT DIP GALVANIZED AFTER FABRICATION.

NEW METAL BUILDING AT FIRE STATION NO. 6

1507 TERMINAL DRIVE
CARLSBAD, NEW MEXICO, 88220

FOUNDATION PLAN

No.	Revision/Issue	Date
1	-	-
2	-	-
3	-	-

THESE DRAWINGS, DESIGNS AND SPECIFICATIONS REPRESENTED THEREOF ARE AND SHALL REMAIN THE PROPERTY OF PETRATECH, LLC. AND NO OTHER PART THEREOF SHALL BE COPIED, DISCLOSED TO OTHERS, OR USED IN CONNECTION WITH ANY OTHER WORK OR PROJECT OTHER THAN THE SPECIFIC PROJECT FOR WHICH THEY HAVE BEEN PREPARED AND DEVELOPED WITHOUT THE WRITTEN CONSENT OF PETRATECH, LLC.

Client Name and Address
MITCHELL & ORSE ARCHITECTURE, LLC
102 N. CANTON
CARLSBAD, IN 88220
575-689-8400

Engineer's Seal



Project No. 2022-64

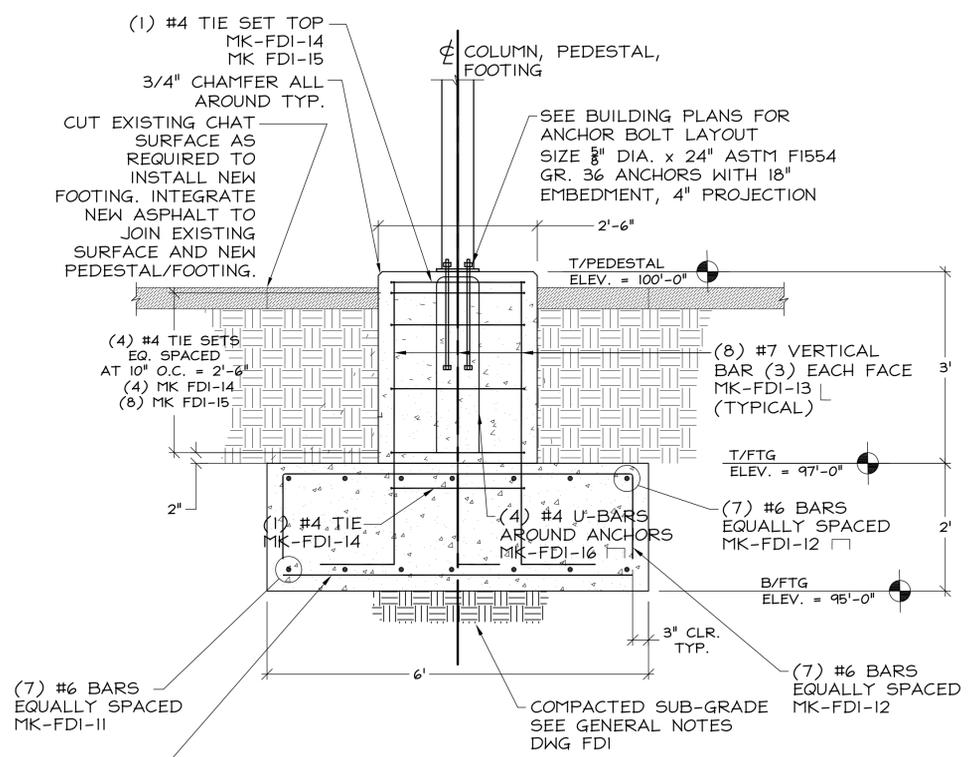
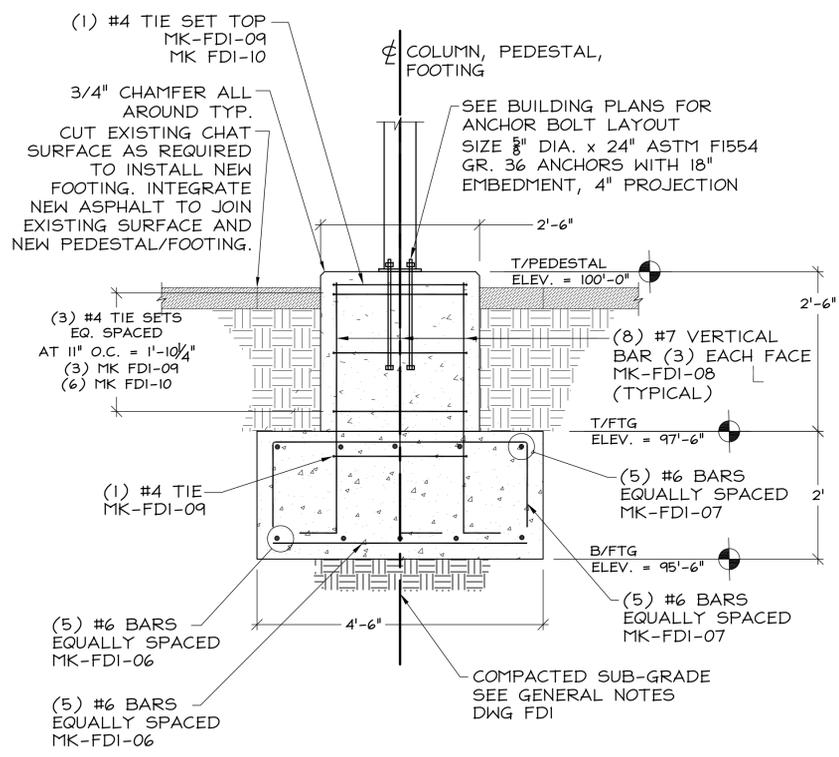
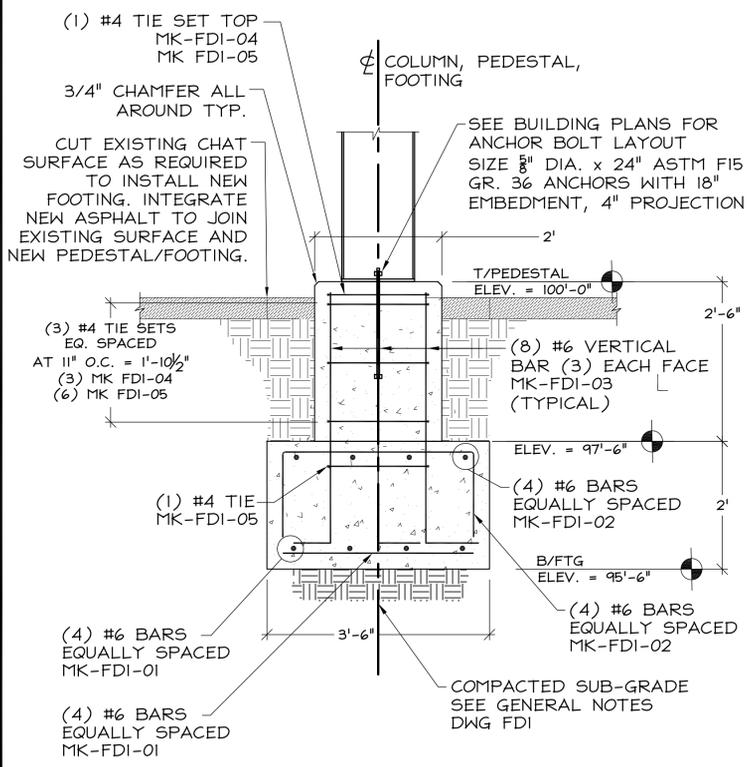
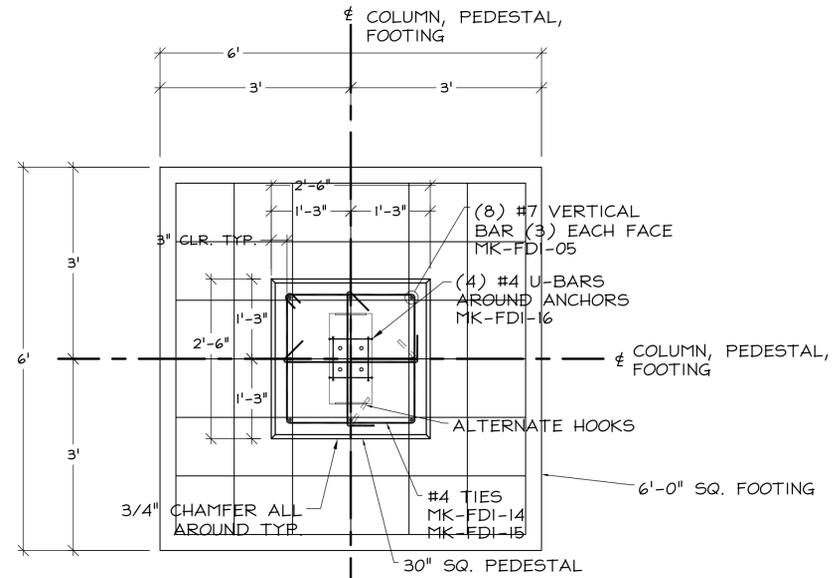
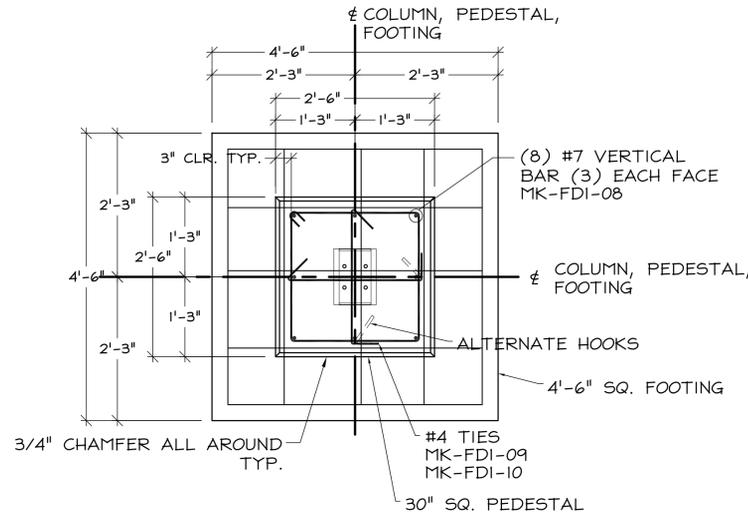
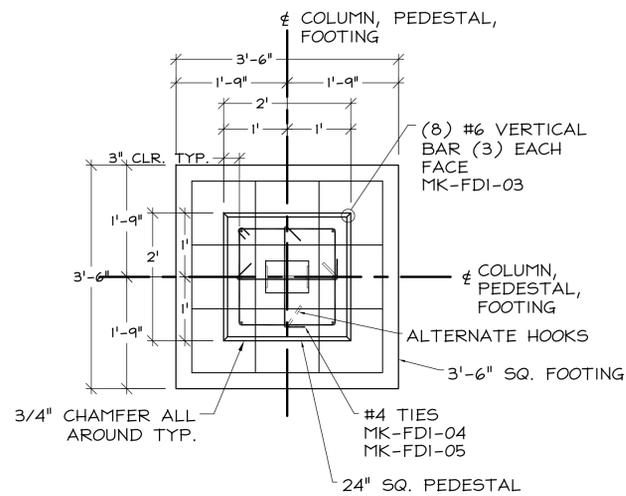
Date 10/12/2022

Scale 1/4" = 1'-0"

Sheet

FD1

10/12/2022



D1
FD2

D2
FD2

D3
FD2

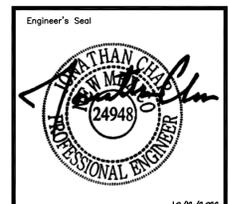
NEW METAL BUILDING AT FIRE STATION NO. 6
1507 TERMINAL DRIVE
CARLSBAD, NEW MEXICO, 88220

FOUNDATION DETAILS

No.	Revision/Issue	Date
△	-	-
△	-	-
△	-	-

THESE DRAWINGS, DESIGNS AND SPECIFICATIONS REPRESENTED THEREBY ARE AND SHALL REMAIN THE PROPERTY OF PATECH, LLC. AND NO OTHER PART THEREOF SHALL BE COPIED, DISCLOSED TO OTHERS, OR USED IN CONNECTION WITH ANY OTHER WORK OR PROJECT OTHER THAN THE SPECIFIC PROJECT FOR WHICH THEY HAVE BEEN PREPARED AND DEVELOPED WITHOUT THE WRITTEN CONSENT OF PATECH, LLC.

Client Name and Address
MITCHELL & ORSE ARCHITECTURE, LLC
122 N. CANTON
CARLSBAD, IN 88220
575-689-8400



Project No. 2022-64
Date 10/12/2022
Scale 3/4" = 1'-0"

Sheet
FD2