

SANTE FE COUNTY **102 GRANT AVENUE** SANTA FE, NEW MEXICO

MAY, 2023

construction plans for the

### CHIMAYO FIRE STATION ADDITION

226 Juan Medina Road Chimayo, New Mexico,87522

PROJECT MANAGER

ARCHITECT/LANDSCAPE ARCHITECT

JOHN QUINN PATE, RLA / RA

CIVIL ENGINEER

STRUCTURAL ENGINEER

Molzen Corbin STEVEN K. MORROW, P.E.

PAUL M. ROMERO, P.E.

Dan Anderson

Molzen Corbin

ABQ Engineering, Inc

MECHANICAL ENGINEER

**ELECTRICAL ENGINEER** 

Molzen Corbin DANIEL GONZALES, P.E.





### VICINITY PLAN



DESCRIPTION	REV DATE	REV NO	NUMERIO CON E CONFIRMATION
			NUMERIC SCALE CONFIRMATION
			DRAWINGS ARE DEPICTED AT INTENDED
			NUMERIC SCALES
			IF THIS BAR EQUALS ONE INCH

### INSPECTION OF EXISTING CONDITIONS

BY SUBMISSION OF A BID THE CONTRACTOR IS ASSERTING THAT IT HAS CONDUCTED A PROPER AND REASONABLE INSPECTION OF EXISTING CONDITIONS. IF THAT INSPECTION REVEALS A VISIBLE PHYSICAL CONDITION THAT IS NOT SPECIFICALLY REFERENCED IN THE CONTRACT DOCUMENTS, THAN THAT CONDITION IS NOT CONSIDERED UNFORESEEN, UNKNOWN OR OF AN UNUSUAL NATURE AND THE CONDITION WILL NOT BE JUSTIFICATION FOR CHANGES TO THE WORK AS DEFINED BY THE CONTRACT FOR CONSTRUCTION

BY SUBMISSION OF A BID THE CONTRACTOR ACKNOWLEDGES THAT IT HAS SATISFIED ITSELF AS TO THE CHARACTER, QUALITY AND QUANTITY OF MATERIALS OR OBSTACLES TO BE ENCOUNTERED INSOFAR AS THIS INFORMATION IS REASONABLY ASCERTAINABLE FROM AN INSPECTION OF THE SITE IN CONJUNCTION WITH REVIEW OF THESE DRAWINGS AND SPECIFICATIONS. ANY FAILURE OF THE CONTRACTOR TO TAKE THE ACTIONS DESCRIBED AND ACKNOWLEDGED BY THESE PARAGRAPHS WILL NOT RELIEVE THE CONTRACTOR FROM RESPONSIBILITY FOR ESTIMATING PROPERLY, THE DIFFICULTY AND COST OF SUCCESSFULLY PERFORMING THE WORK, OR FOR PROCEEDING TO SUCCESSFULLY PERFORM THE WORK WITHOUT ADDITIONAL EXPENSE TO THE OWNER

FAILURE TO CONDUCT AN INSPECTION DOES NOT CONSTITUTE GROUNDS FOR CLAIM OF ADDITIONAL FEES TO REMOVE, PROTECT, OR PATCH VISIBLE EXISTING CONDITIONS IMPACTED BY THE WORK OF THE

### REGARDING HAZARDOUS MATERIALS:

THESE DRAWINGS DO NOT INCLUDE NECESSARY COMPONENTS FOR THE CONSTRUCTION SAFETY WHICH SHALL REMAIN THE RESPONSIBILITY OF THE CONTRACTOR

ALL IDEAS, DESIGNS, ARRANGEMENTS, AND PLANS INDICATED OR REPRESENTED BY THIS INSTRUMENT ARE OWNED BY AND THE PROPERTY OF MOLZEN-CORBIN & ASSOCIATES, AND WERE CREATED AND DEVELOPED FOR USE ON AND IN CONNECTION WITH THE SPECIFIED PROJECT. THESE IDEAS, DESIGNS, ARRANGEMENTS OR PLANS SHALL NOT BE USED BY ANY PERSON, FIRM, OR CORPORATION FOR

THESE DRAWINGS REFLECT INFORMATION ON LITH ITIES GATHERED BY SITE INSPECTION DISCUSSIONS WITH MUNICIPAL OFFICIALS. AND PREVIOUS CONSTRUCTION DOCUMENTS. IT IS POSSIBLE THAT THE EXACT LOCATION OF LINES AND UTILITY CONNECTION POINTS IN THE VICINITY OF REQUIRED WORK MAY BE DIFFERENT FROM THE LOCATION SHOWN ON THESE DRAWINGS. PRIOR TO CONSTRUCTION THE CONTRACTOR SHALL EXCAVATE AND VERIFY THE HORIZONTAL AND VERTICAL LOCATIONS OF ALL OBSTRUCTIONS SHALL A CONFLICT EXIST THE CONTRACTOR SHALL NOTIFY THE ENGINEER SO THE CONFLICT CAN BE RESOLVED WITH A MINIMUM AMOUNT OF DELAY

### **CERTIFICATION:**

I. JOHN QUINN PATE. REGISTERED PROFESSIONAL ARCHITECT NO. 1784 HEREBY CERTIFY THAT THE FOLLOWING PLANS AND DESIGNS WERE MADE UNDER MY SUPERVISION AND DIRECTION AND THAT SAME IS TRUE AND CORRECT TO THE BEST OF MY KNOWLEDGE AND BELIEF.





### MOLZENCORBIN

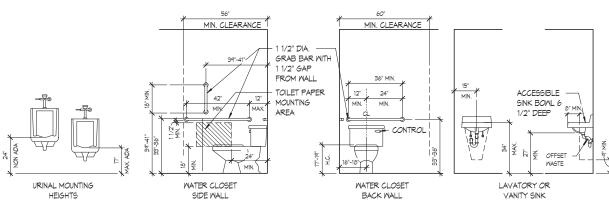
ENGINEERS | ARCHITECTS | PLANNERS

2701 Miles Road SE, Albuquerque, New Mexico 87106 505 242 5700 office 505 242 0673 fax

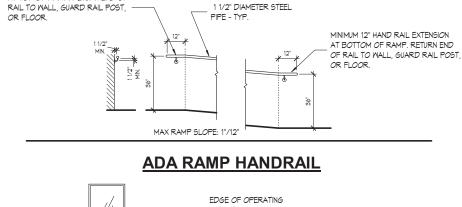
Molzen Corbin Project Number: SFC222-11

G-001



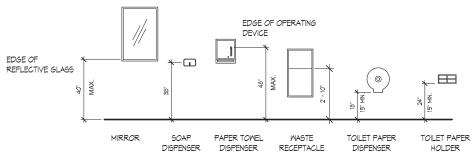


### **TYPICAL TOILET ACCESSORIES MOUNTING HEIGHTS**



1 1/2" DIAMETER STEEL

MINIMUM 12" HAND RAIL EXTENSION AT TOP OF RAMP. RETURN END OF



### TYPICAL PLUMBING FIXTURES AND ACCESSORIES MOUNTING HEIGHTS

	I	NDEX OF DRAWINGS
SEQUENCE	SHEET NUMBER	SHEET NAME
	GENERAL	
1	G-001	COVERSHEET
2	G-002	SHEET INDEX
3	G-101	LIFE SAFETY & EGRESS PLAN, CODE EVALUATION
	CIVIL	
4	C-101	DEMOLITION PLAN
5	C-102	SITE PLAN
6	C-103	GRADING AND DRAINAGE PLAN
7	C-104	UTILITY PLAN
8	C-105	SURVEY CONTROL
9	C-201	TRENCH DRAIN PLAN AND PROFILE
10	C-202	BANK STABILIZATION PLAN AND PROFILE
11	C-501	MISCELLEOUS DETAILS
12	C-502	FENCE AND GATE DETAILS
13	C-503	MISCELLEOUS DETAILS
14	C-504	TRENCH DETAILS
15	C-505	UTILITY DETAILS
10	STRUCTURAL	OTHER PERMIS
16	S-001	GENERAL STRUCTURAL NOTES
17	S-002	GENERAL STRUCTURAL NOTES
18	S-002	GENERAL STRUCTURAL NOTES AND DETAILS
19	S-101	FOUNDATION AND FRAMING PLAN
20	S-301	FOUNDATION DETAILS
21	S-302	FRAMING DETAILS
22	S-501	TYPICAL FRAMING DETAILS
23	S-502	TYPICAL FRAMING DETAILS
20	ARCHITECTURAL	THIOALTIANING BLIALD
24	A-001	SITE DEVELOPMENT PLAN
25	A-101D	DEMOLITION FLOOR PLAN, ROOF PLAN, BUILDING SECTIONS
26	A-101	FLOOR PLAN
27	A-102	REFLECTED CEILING PLAN
28	A-103	ROOF PLAN AND DETAILS
29	A-201	EXTERIOR ELEVATIONS
30	A-301	BUILDING SECTIONS
31	A-310	WALL SECTIONS
32	A-501	DOOR AND WINDOW DETAILS
33	A-601	DOOR AND WINDOW SCHEDULE
00	MECHANICAL / PLUMBING	500111115 111115 011 001125 022
34	M-101	MECHANICAL HVAC AND PLUMBING PLAN
35	M-601	HVAC AND PLUMBING SCHEDULES
00	ELECTRICAL	TIVALO A NAST EGINISINA GOLIES GEEG
36	E-101	EXISTING POWER AND LIGHTING PLAN DEMOLITION
27	E-102	POWER PLAN MODIFICATIONS
38	E-103	LIGHTING PLAN
29	E-601	EXISTING ONE-LINE DIAGRAM
40	E-602	ELECTRICAL SCHEDULES
41	E-603	ELECTRICAL WIRING DIAGRAM
41	L-000	LLLO INIOAL WINING DIAGIANI

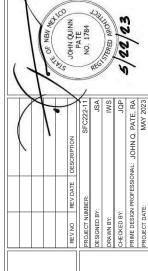
### MOLZENCORBIN

2701 Miles Road SE Albuquerque, New Mexico 87106 505 242 5700 office 505 242 0673 fax

NOTICE OF EXTENDED PAYMENT PROVISION THIS CONTRACT ALLOWS THE OWNER TO MAK PAYMENT WITHIN 45 DAYS AFTER SUBMISSION O AN UNDISPUTED REQUEST FOR PAYMENT

NUMERIC SCALE CONFIRMATION

DRAWINGS ARE DEPICTED AT INTENDED NUMERIC SCALES IF THIS BAR EQUALS ONE INCH



CHIMAYO FIRE STATION ADDITION SANTA FE COUNTY CHIMAYO, NEW MEXICO

SHEET INDEX

G-002

SHEET

RESTROOM

STORAGE

203

207 SF

QUIPMENT STORAGE

202

207 SF

1 OCC

APPARATUS BAY

201 1160 SF 4 OCC

RESTROOM

MECH. RM.

### MAIN AND LOWER LEVEL LIFE SAFETY AND

	Occupano	y Load Sc	hedule	
Number	Room	Area	Occupant Load Factor	Occupancy Load
201	APPARATUS BAY	1160 SF	300	
202	EQUIPMENT STORAGE	207 SF	300	
203	STORAGE	207 SF	300	
204	LOCKERS	194 SF		

### **BUILDING CRITERIA**

2021 NMMC/UMC, AND IFC; 2017 NMEC/NEC AND ANSI A117.1 CURRENT EDITION  BUILDING USE FIRE STATION OCCUPANCY PER 14.7.2.11 NMAC, NMCBC CLASSIFIES FIRE STATIONS AS A BUSINESS: - B	m —
CLASSIFICATION APPARATUS BAYS AS A STORAGE: S-1	TYPE
TYPE OF CONSTRUCTION NON-COMBUSTIBLE VB	
BUILDING FLOOR AREA - NON SEPARATED MIXED OCCUPANCY B 2027 SF	UTES
S-1	ATTRIB 503
NUMBER OF STORIES ACTUAL BUILDING HEIGHT 20	BUILDING ATTRIBUTES TABLE 503
ALLOWABLE AREA PER FLOOR FOR B CLASSIFICATION 9000	BOIL
(MOST RESTRICTIVE CLASSIFICATION) ALLOWABLE BUILDING HEIGHT 40	
FIRE SEPARATION DISTANCES >30 FT ON ALL SIDES TO THE PROPERTY LI OR CENTER OF WATER BUILDI	PROTECTION
FIRE RESISTANCE RATING FOR EXTERIOR WALLS BASED ON DISTANCE NOT REQUIR	PROTE
PORTABLE FIRE EXTINGUISHERS REQUIRED: 2A UNITS EA 1500 SF FLOOR AR	
PER IFC SECTION 906 2 - 4A UNITS AT 75FT MAX SPACING REQUIR  x - 4A:80B:C EXTINGUISHERS PROVID	Z
FIRE DETECTION AND FIRE ALARM SYSTEMS  FIRE PROTECTION SYSTEMS WILL BE DESIGN  AND CONSTRUCTED WITH THE PROJE	PROTECTION
FIRE SEPARATIONS NONE REQUIR	= =
FUNCTION OF SPACE/SF PER OCCUPANT OCCUPANT LO	
BUSINESS AREAS  BUSINESS 593 SF/100 SF PER OCCUPANT = 6  TRAINING ROOM 452 SF/20 SF PER OCCUPANT = 23  STORAGE 486 SF/300 SF PER OCCUPANT = 2	
APPARATUS AND EQUIPMENT ROOMS 3971 SF/300 SF PER OCCUPANT = 14	5
ACCESSORY AREAS  MECHANICAL/ELECTRICAL 39 SF TOILET FACILITIES 134 SF CIRCULATION 17 SF	MEANS OF EGRESS
TARE & OVERHANGS 454 SF	MEAN
TOTAL OCCUPANT LOAD 45	7-
TOTAL OCCUPANT LOAD 45	
MEANS OF EGRESS REQUIRED AT 36" WIDE EACH 1 EXITS TO PUBLIC WAY PROVIDED 4	
PLUMBING FACILITIES CLASSIFICATION:	
BUSINESS OCCUPANT LOAD = 45	0
WATER CLOSETS REQUIRED: 1/25 FOR FIRST 50 AND 1/50 FOR REMAINDER = 2 TOTAL WATER CLOSETS PROVIDED: EXISTING 2 TOTAL	102.1
LAVATORIES REQUIRED: 1/40 FOR FIRST 80 AND 1/80 FOR REMAINDER = 2 TOTAL LAVATORIES PROVIDED: EXISTING 2 TOTAL	TABLES 2902.1
DRINKING FOUNTAIN REQUIRED: 1 PER 100 = 1 TOTAL DRINKING FOUNTAINS PROVIDED: EXISTING 1 BOTTLED WATER PROVIDED	Ë
SERVICE SINKS REQUIRED: 1 SERVICE SINK SERVICE SINKS AND OTHER FIXTURES PROVIDED: EXISTING 1 SERVICE SINK, 1 KITCHEN SINK 1 SHOWED	
1 KITCHEN SINK, 1 SHOWER	3
CLIMATE ZONE: CHIMAYO, SANTA FE COUNTY, ZONE 5B ROOF: R-38 MIN IN ATTIC SPACE BELOW DECK	, Y
MASS WALLS: R-11.4 CONTINUOUS WOOD FRAMED WALLS: R-13 MIN IN CAVITY PLUS 3.8 MIN CONTINUOUS R-7.5	NMECC
PERIMETER: R-10 TO 24" BELOW GRADE SLAB: OPENINGS: U-0.37 MAX, FOR SWINGING DOORS; U-0.31 MAX FOR ROLL-UP DOORS  U-0.37 MAX FOR SWINGING DOORS; U-0.31 MAX FOR ROLL-UP DOORS	NMECC
ALL EXISTING ACCESSIBILITY ELEMENTS TO REMAIN.	- ACC E 2 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0
SYMBOLS LEGEND	

MOLZENCORBIN

2701 Miles Road SE Albuquerque, New Mexico 87106 505 242 5700 office 505 242 0673 fax MolzenCorbin.com

NOTICE OF EXTENDED PAYMENT PROVISION: THIS CONTRACT ALLOWS THE OWNER TO MAKE PAYMENT WITHIN 45 DAYS AFTER SUBMISSION O AN UNDISPUTED REQUEST FOR PAYMENT

NUMERIC SCALE CONFIRMATION DRAWINGS ARE DEPICTED AT INTENDED NUMERIC SCALES IF THIS BAR EQUALS ONE INCH

CHIMAYO FIRE STATION ADDITION SANTA FE COUNTY CHIMAYO, NEW MEXICO

LIFE SAFETY & EGRESS PLAN, CODE EVALUATION

G-101 SHEET

## (E) <u>L</u>5 **(4**). **®**-8 4 7 (O) Ø1-6 --6177---. 1"=20'-0" CAUTION: NOTE THAT ALL EXISTING UTILITIES MAY NOT BE SHOWN. EXISTING SERVICE CONNECTIONS ARE NOT SHOWN. ANY EXISTING UTILITIES THAT ARE SHOWN ARE SHOWN IN APPROXIMATE LOCATION ONLY. IT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR TO CONTACT ALL THE UTILITY OWNERS AND TO CONDUCT ALL NECESSARY FIELD INVESTIGATION FPIOR TO ANY EXCAVATION TO DETERMINE THE ACTUAL LOCATION OF UTILITIES AND OTHER IMPROVEMENTS.

PLOT DATE: 8/21/2023 4:49 PM SAVE DATE: 5/2/2023 4:00 PM I:\SANTA FE COUNTY\SFC222-11

### KEYED NOTES

- 1 BEGIN REMOVE AND DISPOSE EXISTING FENCE FABRIC, GATE AND POSTS
- 1 END REMOVE AND DISPOSE EXISTING FENCE FABRIC, GATE AND POSTS
- 3 EXISTING SEPTIC TANK AND LEACH FIELD TO REMAIN UNDISTURBED
- 4 BEGIN REMOVE, SALVAGE AND RESET EXISTING FENCE FABRIC, AND POSTS FOR GRADING
- 5 BEGIN REMOVE, SALVAGE AND RESET EXISTING FENCE FABRIC, AND POSTS FOR GRADING
- 6 EXISTING BUSH TO REMAIN UNDISTURBED
- 7) EXISTING TREE TO REMAIN UNDISTURBED
- 8 EXISTING CONCRETE SLAB TO REMAIN UNDISTURBED
- 9 EXISTING FLAG POLE TO REMAIN UNDISTURBED
- 10 EXISTING GAS METER AND BOLLARDS TO REMAIN

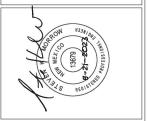
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		Ш	SFC;				<u>×</u>	1
		REV DATE DESCRIPTION					PRIME DESIGN PROFESSIONAL:STEVEN K. !	
		REV DATE	NUMBER:	BY:	.:	BY:	SIGN PROF	DATE.
		REV NO	PROJECT NUMBER:	DESIGNED BY:	DRAWN BY:	CHECKED BY:	PRIME DE	TAT TOTI OUR
								_

### **LEGEND**

FINISHED FLOOR ELEVATION SPOT ELEVATION CONTROL POINT PROPERTY PIN RIGHT OF WAY MONUMENT AIR CONDITIONING UNIT CLEANOUT FLAG POLE GATE HOSE BIB MISCELLANEOUS AS LABELED MISCELLANEOUS AS LABEI
POST
SIGN
ELECTRIC JUNCTION BOX
ELECTRIC METER
GUY WIRE
POWER POLE
NATURAL GAS METER
TELEPHONE PEDESTAL
FIRE HYDRANT
WATER VALVE
BUSH BUSH DECIDUOUS TREE EVERGREEN TREE TREE STUMP

BUSH LINE
CHAIN LINK FENCE (6' HEIGHT)
COMMUNICATIONS LINE
EDGE OF DIRT ROAD
MAJOR CONTOUR
MAJOR CONTOUR
OHE
OVERHEAD ELECTRIC
RIGHT OF WAY LINE
EVENTAGE LINE

- COORDINATES ARE "GROUND" OR PROJECT COORDINATES BASED ON NAD83 NEW MEXICO STATE PLANE, CENTRAL ZONE
   COMBINED ADJUSTMENT FACTOR (CAF) IS 0.99961839
   VERTICAL ELEVATIONS BASED ON NORTH AMERICAN VERTICAL DATUM OF 1988 (NAVD88)

C-101

SHEET 4/41

CHIMAYO FIRE STATION ADDITION SANTA FE COUNTY CHIMAYO, NM

DEMOLITION PLAN

## (15) 14 (4) FF68.25 19 (4) (5) )<u>(</u>12) 1"=20'-0" CAUTION: NOTE THAT ALL EXISTING UTILITIES MAY NOT BE SHOWN. EXISTING SERVICE CONNECTIONS ARE NOT SHOWN. ANY EXISTING UTILITIES THAT ARE SHOWN ARE SHOWN IN APPROXIMATE LOCATION ONLY. IT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR TO CONTACT ALL THE UTILITY OWNERS AND TO CONDUCT ALL NECESSARY FIELD INVESTIGATION PRIOR TO ANY EXCAVATION TO DETERMINE THE ACTUAL LOCATION OF UTILITIES AND OTHER IMPROVEMENTS.

### KEYED NOTES

- 6" REINFORCED CONCRETE SLAB, SEE DETAIL C-501.
- 2 STORMWATER RETENTION POND. REQUIRED VOLUME IS 350 CF.
- (2) 10' MANUAL GATE SEE SHEET C-502 FOR DETAILS.
- 4 BOLLARD, SEE SHEET C-501 FOR DETAIL.
- 5 9" RIP RAP NOMINAL RIP RAP EROSION PROTECTION.
- 6 EXISTING SEPTIC TANK AND LEACH FIELD
- 7 BANK STABILIZATION COMPLETED BY OTHERS (NOT PART OF THIS CONTRACT)
- 8 BEGIN RELIANCE FOUNDRY R-4990-DX TRENCH DRAIN WITH TYPE A GRATE SEE DETAIL SHEET C-504 (OR APPROVED EQUAL)
- RELIANCE FOUNDRY R-4990-DX TRENCH DRAIN END TYPE A GRATE BEGIN TYPE D GRATE SEE DETAIL SHEET C-504 (OR APPROVED EQUAL)
- (10) END RELIANCE FOUNDRY R-4990-DX TRENCH DRAIN
- 6" REINFORCED ADA PARKING, SEE DETAIL C-501.
- $\overbrace{\text{12}}$  NEW 6' CHAINLINK FENCE SEE DETAIL SHEET C-502.
- (13) REGRADE GRAVEL PARKING AREA TO DRAIN AWAY FROM ADDITION AND RESURFACE WITH NEW 6" AGGREGATE BASE COURSE.
- (14) REPAVE FIRESTATION ENTRANCE WITH NEW 4" ASPHALT. SEE DETAIL C-501. (ADDITIVE ALTERNATE)
- 15) GRADED SWALE SEED DETAIL SHEET C-501
- (16) CONCRETE WHEEL STOP SEE DETAIL SHEET C-501
- 17) CONCRETE APRON SEE DETAIL SHEET C-501
- 18 CONCRETE SIDEWALK SEE DETAIL SHEET C-501
- (19) CONCRETE RETAINING WALL SEE SHEET C-103 FOR ELEVATIONS, SEE TECHNICAL SPECIFICATION 32 32 01

LEGEN

DRAINAGE SWALE

4" CONCRETE APRON

6" REINFORCED CONCRETE

" NOMINAL RIPRAP

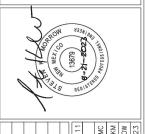
MOLZENCORBIN

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NUMERIC SCALE CONFIRMATION

DRAWINGS ARE DEPICTED AT INTENDED NUMERIC SCALES IF THIS BAR EQUALS ONE INCH



REV NO	REV DATE	DESCRIPTION	
PROJECT NUMBER:	NUMBER:		SFC222-
DESIGNED BY:	BY:		
DRAWN BY:	ÿ		2
CHECKED BY:	BY:		Š
PRIME DE	SIGN PROFI	PRIME DESIGN PROFESSIONAL:STEVEN K. MORRC	K. MORRC
PROJECT DATE:	DATE:		MAY 202

CHIMAYO FIRE STATION ADDITION SANTA FE COUNTY CHIMAYO, NM

SITE PLAN

C-102

SHEET 5 / 41

### KEYED NOTES

- 1 STORMWATER RETENTION POND. REQUIRED VOLUME IS 350 CF.
- 9" RIP RAP NOMINAL RIP-RAP BLANKET SEE DETAIL SHEET C-501
- 3 BANK STABILIZATION COMPLETED BY OTHERS (NOT PART OF THIS CONTRACT)
- 4 BEGIN RELIANCE FOUNDRY R-4990-DX TRENCH DRAIN WITH TYPE A GRATE SEE DETAIL SHEET C-504 (OR APPROVED EQUAL) TOG=68.00 INV=67.50
- 5 RELIANCE FOUNDRY R-4990-DX TRENCH DRAIN END TYPE A GRATE BEGIN TYPE D GRATE SEE DETAIL SHEET C-504 (OR APPROVED EQUAL) TOG=67:98 INV=66.44
- 6 END RELIANCE FOUNDRY R-4990-DX TRENCH DRAIN (OR APPROVED EQUAL) TOG=67.82 INV=66.20
- 7 GRADED SWALE SEED DETAIL SHEET C-501
- 8 BEGIN CONCRETE RETAINING WALL SEE TECHNICAL SPECIFICATION 32 32 01
- 9 END CONCRETE RETAINING WALL

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REV NO	REV DATE	DESCRIPTION	
PROJECT NUMBER:	NUMBER:		SFC222-
DESIGNED BY:	BY:		
DRAWN BY:	.;.		
CHECKED BY:	BY:		05
PRIME DE	SIGN PROF	PRIME DESIGN PROFESSIONAL:STEVEN K. MORR	K. MORR
PROJECT DATE:	DATE:		MAY 20

GRADING AND DRAINAGE PLAN

### CONSTRUCTION NOTES

- FOR DRAWING SYMBOLS AND LEGEND, SURVEY CONTROL, SEE SHEET C-101.
- 2. FOR EXISTING UTILITIES, SEE SHEET C-101.
- FOR DEMOLITION AND REMOVALS PLAN, SEE SHEET C-101.

C-103

6 / 41 SHEET

CHIMAYO FIRE STATION ADDITION SANTA FE COUNTY CHIMAYO, NM

PLOT DATE: 8/21/2023 4:49 PM SAVE DATE: 5/19/2023 10:20 AM I:\SANTA FE COUNTY\SFC222-11



REV NO	REV DATE	DESCRIPTION	
PROJECT NUMBER:	NUMBER:		SFC222-
DESIGNED BY:	BY:		
DRAWN BY:	Y:		
CHECKED BY:	BY:		S
PRIME DE	SIGN PROF	PRIME DESIGN PROFESSIONAL:STEVEN K. MORR	K. MORR
PROJECT DATE:	DATE:		MAY 20

CHIMAYO FIRE STATION ADDITION SANTA FE COUNTY CHIMAYO, NM

C-104 SHEET 7/41

1"=20'-0"

PLOT DATE: 8/21/2023 4:50 PM SAVE DATE: 5/24/2023 4:53 PM I:\SANTA FE COUNTY\SFC222-11

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### 27 POINT NORTHING EASTING -3 10 9 <del>-</del>(18)∕ 19-1 CONTROL POINT 9 | 1814917.92 | 1735769.28 ALUMINUM CAP-SF6 N=1814861.720 E=1736002.320 EL=6157.81 10 | 1814919.26 | 1735770.04 11 1814908.98 1735787.97 12 1814886.67 1735778.64 13 1814868.23 1735768.07 14 15 16 17 18 CONTROL POINT, ALUMINUM CAR N=18/4821.340 E=17/35632.520 EL=6177,78 19 20 21 @i: 6 22 23 26 27 28 | 1814888.16 | 1735776.04 **LEGEND** ---5320--EX. INDEX CONTOUR ---5321---EX. INTERMEDIATE CONTOUR WATER VALVE $\bowtie$ 18 WM $\bigcirc$ WATER METER 4 SPIGOT POWER POLE ELECTRIC BOX GATE

PLOT DATE: 8/21/2023 4:50 PM SAVE DATE: 5/2/2023 4:01 PM I:\SANTA FE COUNTY\SFC222-11

 $\boxtimes$ 

- - - - - OHWM

ELECTRIC BOX

EXISTING FENCE

ORDINARY HIGH WATER MARK

1"=20'-0"

### **GENERAL NOTES**

- SEE SHEET C-201 FOR RIP-RAP SLOPE PLAN AND PROFILE
- EXISTING AND FINISH CONTOURS ARE THE SAME. BACKFILL RIP-RAP TO
- WHEEL ROLL RIP-RAP PRIOR TO

POINT TABLE

1736002.32

735632.52

735706.70

735767.58

1735776.61

1735774.08

1735786.01

1735746.13

1735744.58

1735731.56

1735733.12

1735705.93

1735703.27

1735757.64

735765.07

735768.53

735762.01

735739.65

1735751.09

1814861.72

1814821.34

1814920.84

1814905.18

1814870.29

1814886.05

1814887.50

1814908.33

1814880.81

1814878.10

1814885.55

1814888.27

1814903.85

1814905.37

1815023.53

1815019.39

1815017.47

1815005.98

1815007.24

1815027.17

1815002.49 1735747.96

DESCRIPTION

BLDG CORNER

BLDG APRON

BLDG APRON

BLDG APRON

BLDG APRON

BLDG APRON

SWLK CORNER

SWLK CORNER

BLDG CORNER

BLDG CORNER

TRENCH GRATE

TRENCH GRATE

TRENCH GRATE

SWLK CORNER

CONCRETE SLAB CORNER

CONCRETE SLAB CORNER

BLDG APRON

CAUTION: NOTE THAT ALL EXISTING UTILITIES MAY NOT BE

NOTE THAT ALL EXISTING UTILITIES MAY NOT BE SHOWN. EXISTING SERVICE CONNECTIONS ARE NOT SHOWN. ANY EXISTING UTILITIES THAT ARE SHOWN ARE SHOWN IN APPROXIMATE LOCATION ONLY. IT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR TO CONTACT ALL THE UTILITY OWNERS AND TO CONDUCT ALL NECESSARY FIELD INVESTIGATIONS PRIOR TO ANY EXCAVATION TO DETERMINE THE ACTUAL LOCATION OF UTILITIES AND OTHER IMPROVEMENTS.

CONTROL POINT SF6

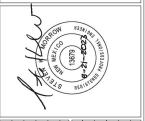
CONTROL POINT

### MOLZENCORBIN

2701 Miles Road SE Albuquerque, New Mexico 87106 505 242 5700 office 505 242 0673 fax

### NUMERIC SCALE CONFIRMATION

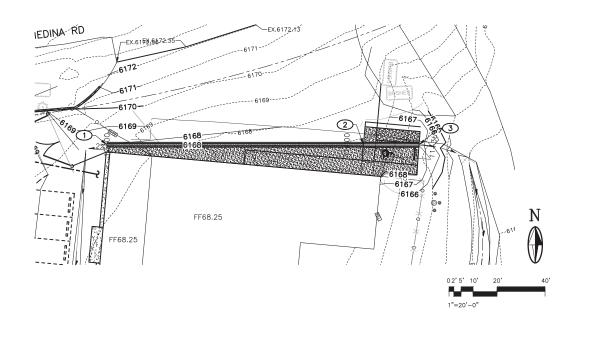
DRAWINGS ARE DEPICTED AT INTENDED NUMERIC SCALES IF THIS BAR EQUALS ONE INCH



			SFC222-11		MC	SKM
		REV DATE DESCRIPTION				
		REV DATE	NUMBER:	BY:	.;.	BY:
		REV NO	PROJECT NUMBER:	DESIGNED BY:	DRAWN BY:	CHECKED BY:

CHIMAYO FIRE STATION ADDITION SANTA FE COUNTY CHIMAYO, NM SURVEY CONTROL

C-105 8/41 SHEET



- KEYED NOTES
  BEGIN RELIANCE FOUNDRY R-4990-DX
  TRENCH DRAIN WITH TYPE A GRATE 1 SEE DETAIL SHEET C-504 (OR APPROVED EQUAL) TOG=68.00 INV=67.50
- RELIANCE FOUNDRY R-4990-DX TRENCH DRAIN END TYPE A GRATE BEGIN TYPE D GRATE SEE DETAIL SHEET C-504 (OR APPROVED EQUAL) TOG=67.98
- END RELIANCE FOUNDRY R-4990-DX TRENCH DRAIN (OR APPROVED EQUAL) TOG=67.82 INV=66.20

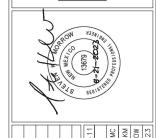
MOLZENCORBIN

2701 Miles Road SE Albuquerque, New Mexico 87106 505 242 5700 office 505 242 0673 fax

NOTICE OF EXTENDED PAYMENT PROVISION: THIS CONTRACT ALLOWS THE OWNER TO MAKE PAYMENT WITHIN 45 DAYS AFTER SUBMISSION OF AN UNDISPUTED REQUEST FOR PAYMENT

NUMERIC SCALE CONFIRMATION

DRAWINGS ARE DEPICTED AT INTENDED NUMERIC SCALES IF THIS BAR EQUALS ONE INCH



PTION	SFC222-			S	PRIME DESIGN PROFESSIONAL:STEVEN K. MORRI	MAY 20	
REV DATE DESCRIPTION	NUMBER:	BY:		BY:	SIGN PROFESSION	DATE:	
REV NO	PROJECT NUMBER:	DESIGNED BY:	DRAWN BY:	CHECKED BY:	PRIME DE	PROJECT DATE:	

TRENCH DRAIN STA.10+00 TO STA. 11+30 PLAN AND PROFILE

CHIMAYO FIRE STATION ADDITION SANTA FE COUNTY CHIMAYO, NM

C-201 9 / 41 SHEET

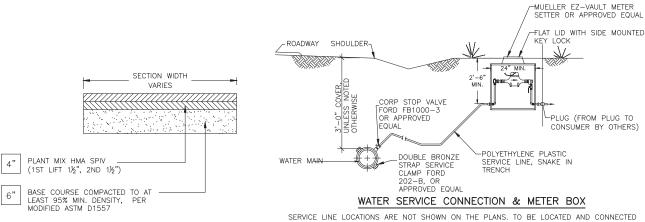
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6185 6185 6180 6180 6175 6170 6170 RIP.--RAP. SWALE AND: RIP-BLANKET 6165 6165 6160 6160 6155 6155 6150 6150 10+00 11+00

SCALE: 1"=20' HORIZ 1"=5' VERT

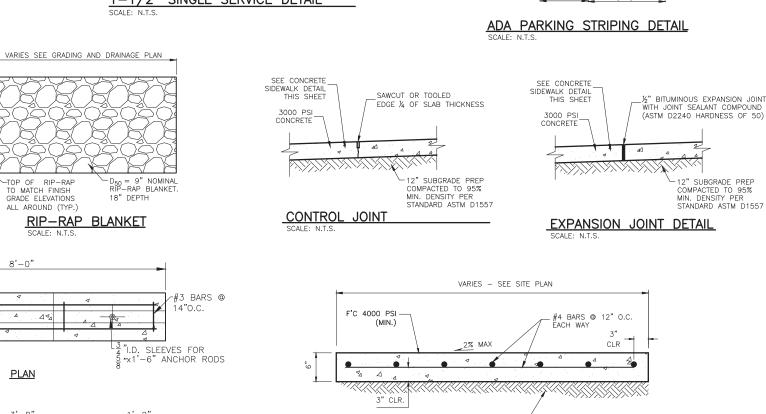
### **GENERAL NOTES** KEYED NOTES MOLZENCORBIN 18" DEEP D $_{50}$ RIP-RAP 12" NOMINAL WITH FILTER FABRIC SEE DETAIL SHEET C-503 EXISTING AND FINISH CONTOURS ARE THE SAME. BACKFILL RIP-RAP TOP MATCH EXISTING. 2701 Miles Road SF BEGIN RIP-RAP SLOPE BLANKET Albuquerque, New Mexico 87106 505 242 5700 office N=1814729.22 2. CONTRACTOR SHALL PROTECT THE E=1735711.92 505 242 0673 fax WORK FROM WEATHER EVENTS. ANY REPAIR OF WORK REQUIRED 3 END RIP-RAP SLOPE BLANKET BECAUSE OF LATERAL BANK N=1814886.67 EROSION OR OTHER CAUSES E=1735892.05 SHALL BE INCIDENTAL TO THIS CONTROL ALIGNMENT 4 BACKFILL OVER RIP-RAP TO MATCH CONTRACT. ANY DEWATERING EXISTING (TYP.) REQUIRED SHALL ALSO BE INCIDENTAL TO THIS CONTRACT. EXISTING DRAIN PIPE TO REMAIN. RIP—RAP IS TO BE PLACED ADJACENT TO EXISTING PIPE SUCH THAT EXISTING CONTROL ALIGNMENT STA. 12+43.97 34 RT= CONSTRUCTION ALIGNMENT STA. 11+76.70, CL N=1814854.95 E=1735830.65 NUMERIC SCALE CONFIRMATION DRAWINGS ARE DEPICTED AT INTENDED PIPE IS NOT DISTURBED. IF THIS BAR EQUALS ONE INCH 4 EDGE OF 2 1 EDGE OF \_ B C-501 **LEGEND** EDGE OF -RIP-RAP CONTROL ALIGNMENT STA. 11+91.56 25'-2" RT= CONTROL ALIGNMENT STA. 10+99.34 36' RT= CONSTRUCTION ALIGNMENT STA. 10+26.22, CL N=1814739.27 CONSTRUCTION ALIGNMENT STA. 11+29.54, CL N=1814824.35 EX. INDEX CONTOUR ----5320-E=1735794.76 EX. INTERMEDIATE CONTOUR E=1735736.14 ---5321-- $\bowtie$ WATER VALVE CONTROL ALIGNMENT STA. 13+27.57 53'-2" RT= CONSTRUCTION ALIGNMENT STA. 12+46, CL N=1814886.67 N \_ CONTROL ALIGNMENT STA. 10+79.96 35'-4" RT= CONSTRUCTION ALIGNMENT STA. 10+00.00, CL N=1814729.22 E=1735711.92 $\bigcirc^{\mathsf{MW}}$ WATER METER 4 SPIGOT E=1735892.05 ( POWER POLE -0-ELECTRIC BOX GATE GATE NOTE THAT ALL EXISTING UTILITIES MAY NOT BE SHOWN. EXISTING SERVICE CONNECTIONS ARE NOT SHOWN. ANY EXISTING UTILITIES THAT ARE SHOWN ARE SHOWN IN APPROXIMATE LOCATION ONLY. IT SHALL BE THE RESPONSIBILITY OF THE $\boxtimes$ ELECTRIC BOX 1"=20'-0" EXISTING FENCE $\rightarrow$ CONTRACTOR TO CONTACT ALL THE UTILITY OWNERS AND TO CONDUCT ALL NECESSARY FIELD INVESTIGATIONS PRIOR TO ANY EXCAVATION TO DETERMINE THE ACTUAL LOCATION OF UTILITIES RIP-RAP AND PROFILE ORDINARY HIGH WATER MARK SCALE: 1"=20' HORIZ AND OTHER IMPROVEMENTS. 1"=5' VERT 6180 PLAN. CHIMAYO FIRE STATION ADDITION SANTA FE COUNTY CHIMAYO, NM 6175 6175 STABILIZATION STA.10+00 TO STA. 12+46 (FOR INFORMATION ONLY) ELEV = 6165.91 6170 6170 ELEV.-6164.97 TOP OF RIPHRAP SLOPE FXISTING NATURAL 6165 6165 - STA.: 12+46, CL : END: RIP.-RAP. BANK :STABILIZATION 6160 6155 6155 D50 12" NOMINAL RIP-RAP 18" DEEP WITH FILTER FABRIC 6150 6150 BANK 8/21/2023 4:50 PM 5/2/2023 4:01 PM E COUNTY SFC222-11 6145 6145 PLOT DATE: 1 SAVE DATE: 1 !\SANTA FE SHEET 10/4110+00 11+00 12+00 13+00



DURING CONSTRUCTION. ALL NEW SERVICE LINES SHALL BE LOCATED BY THE VILLAGE AND INSTALLED BY THE CONTRACTOR UP TO THE PROPERTY LINE.

1-1/2" SINGLE SERVICE DETAIL

### INTERNATIONAL SYMBOL OF ACCESSIBILITY ON 12" X 18" SIGN PANEL WITH VAN ACCESSIBLE SIGN CONCRETE WHEEL -4" WHITE PARKING STRIPE PARKING STRIPE 4" BLUE PARKING STRIPE MARK PARKING SPACE WITH WHITE PAINTED INTERNATIONAL SYMBOL OF ACCESSIBILITY CENTERED ON BLUE BACKGROUND (TYP.)



### 1'-2" 3'-8" $-\frac{3}{4}$ "I.D. SLEEVES 1'-4"

**ELEVATION** 

## END VIEW

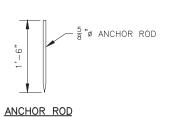
(ADDITIVE ALTERNATE)

4" ASPHALT PAVEMENT SECTION

2-#3 BARS-

NOTE APPROVED STANDARD MANUFACTURED WHEEL STOP MAY BE USED.

PLOT DATE: 8/21/2023 4:50 PM SAVE DATE: 5/24/2023 5:12 PM I:\SANTA FE COUNTY\SFC222-11



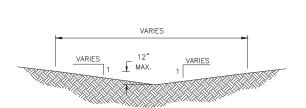
CONCRETE WHEEL STOP

## 12" SUBGRADE PREP COMPACTED TO 95% MIN. DENSITY PER MODIFIED ASTM D1557

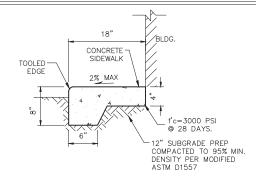
### **GENERAL NOTES:**

INSTALL EXPANSION & CONTRACTION JOINTS IN SITE CONCRETE AS SPECIFIED.

### REINFORCED CONCRETE SLAB



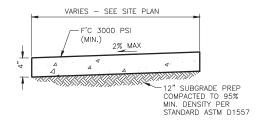
**GRADED SWALE** 



### **GENERAL NOTES:**

INSTALL EXPANSION & CONSTRUCTION JOINTS IN SITE CONCRETE AS SPECIFIED

### CONCRETE APRON DETAIL

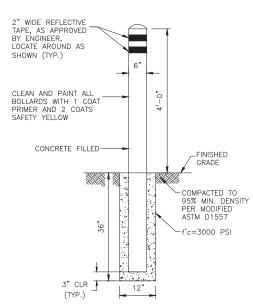


### **GENERAL NOTES:**

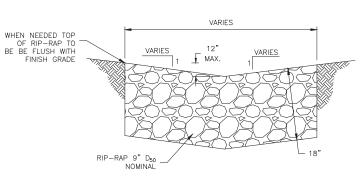
1. INSTALL EXPANSION & CONTRACTION JOINTS IN SITE CONCRETE AS SPECIFIED.

### CONCRETE SIDEWALK

SCALE: N.T.S.



### TYPICAL BOLLARD DETAIL



RIP-RAP SWALE

MOLZENCORBIN

2701 Miles Road SF Albuquerque, New Mexico 87106 505 242 5700 office 505 242 0673 fax

NOTICE OF EXTENDED PAYMENT PROVISION: HIS CONTRACT ALLOWS THE OWNER TO MAK

### NUMERIC SCALE CONFIRMATION

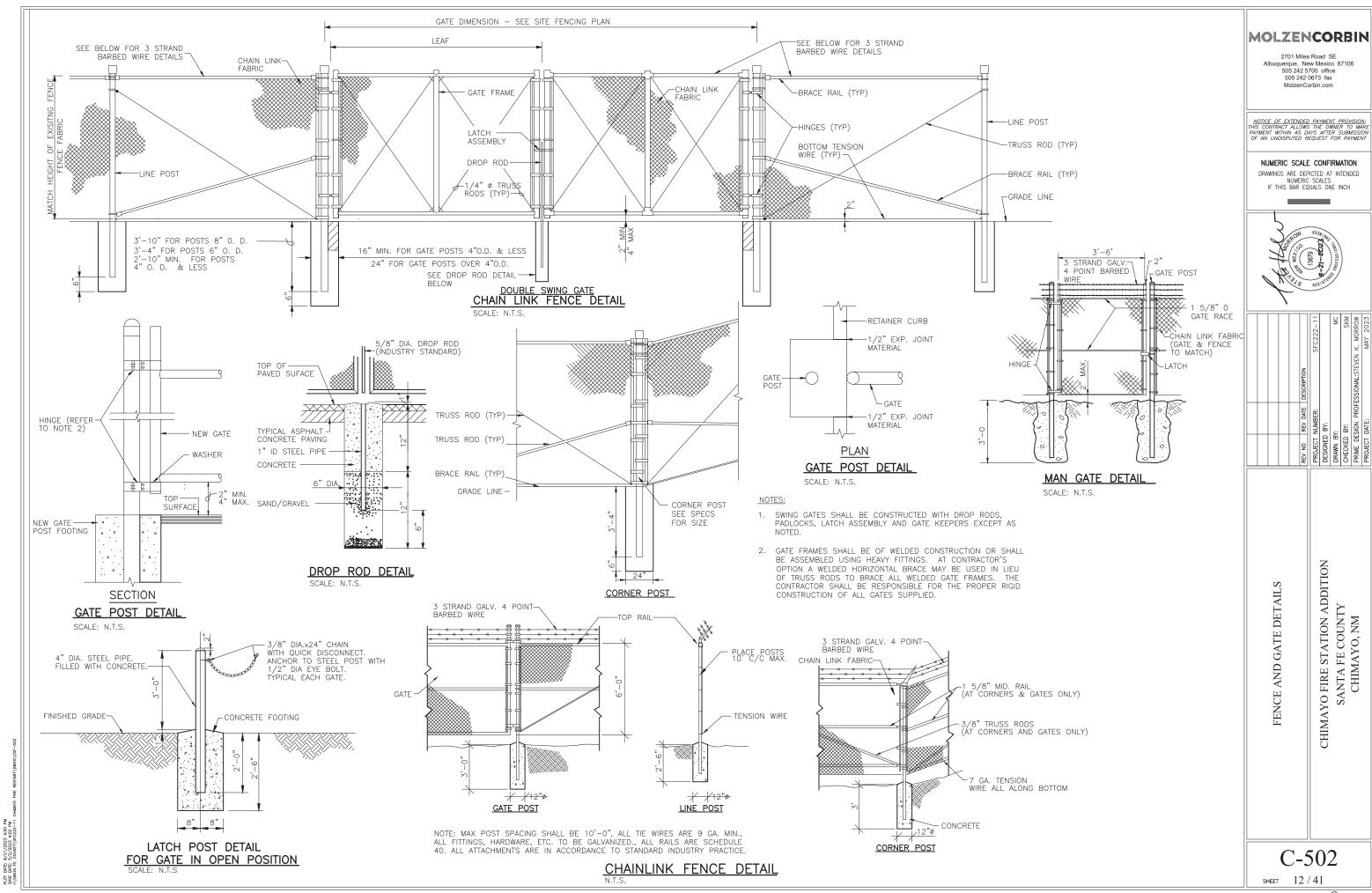
DRAWINGS ARE DEPICTED AT INTENDED IF THIS BAR EQUALS ONE INCH

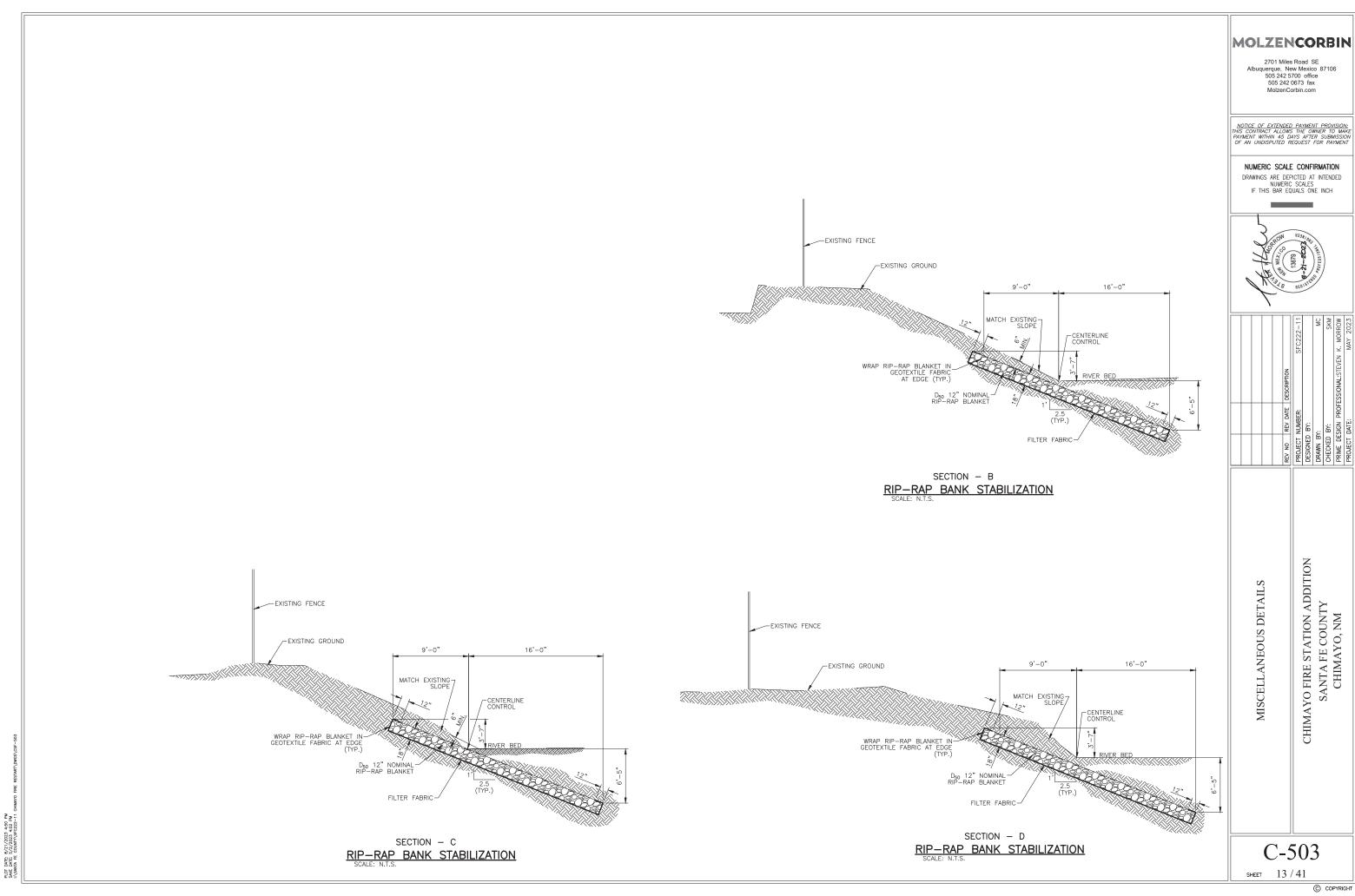


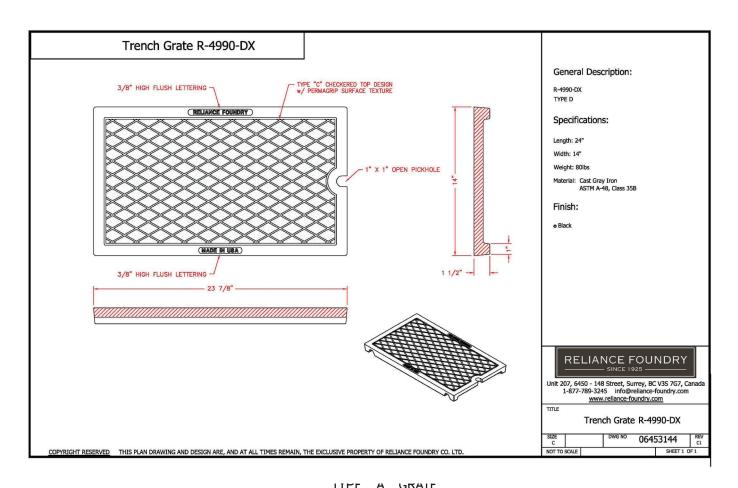
O FIRE STATION ADDITION SANTA FE COUNTY CHIMAYO, NM MISCELLANEOUS DETAIL

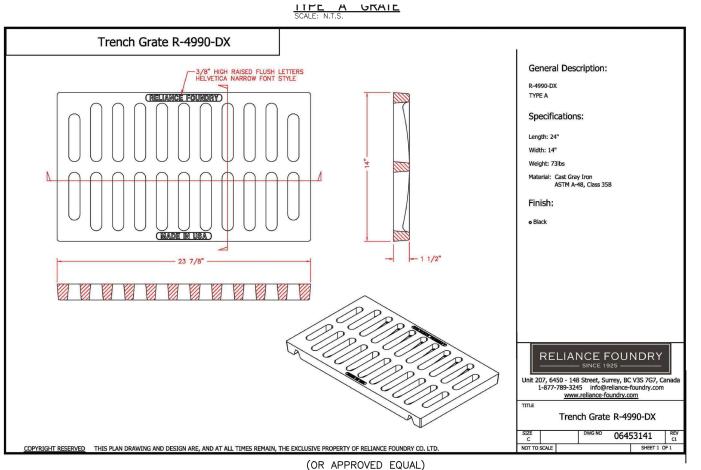
CHIMAYO FIRE

C-501 $_{\text{SHEET}} = 11 \ / \ 41$ 

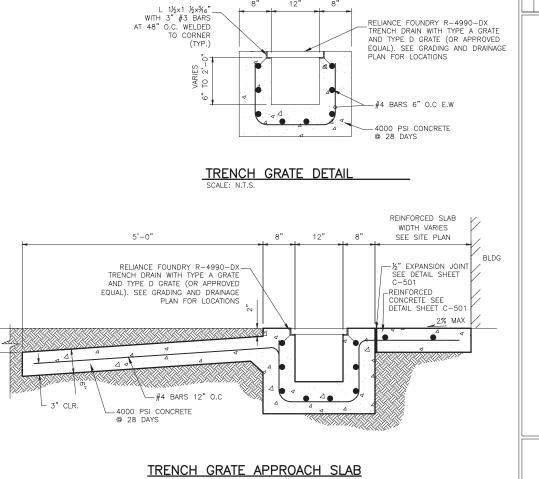








TYPE "A" GRATE



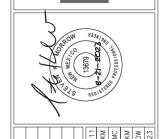
MOLZENCORBIN

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NOTICE OF EXTENDED PAYMENT PROVISION: THIS CONTRACT ALLOWS THE OWNER TO MAKE PAYMENT WITHIN 45 DAYS AFTER SUBMISSION OF AN UNDISPUTED REQUEST FOR PAYMENT

### NUMERIC SCALE CONFIRMATION

DRAWINGS ARE DEPICTED AT INTENDED NUMERIC SCALES IF THIS BAR EQUALS ONE INCH



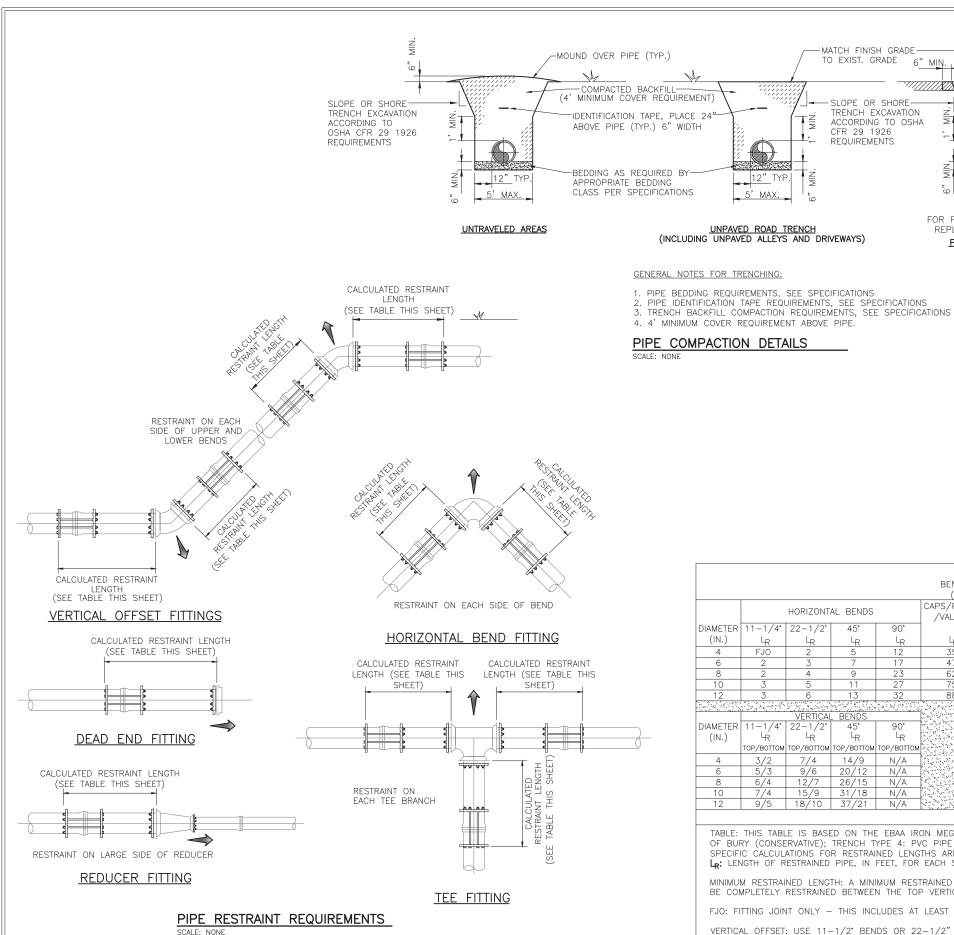
REV NO	REV DATE	DESCRIPTION	
PROJECT NUMBER:	NUMBER:		SFC22
DESIGNED BY:	BY:		
DRAWN BY:	.;.		
CHECKED BY:	BY:		
PRIME DE	SIGN PROF	PRIME DESIGN PROFESSIONAL:STEVEN K. MC	K.
PROJECT DATE:	DATE:		MAY

TRENCH GRATE DETAILS

CHIMAYO FIRE STATION ADDITION SANTA FE COUNTY CHIMAYO, NM

C-504

SHEET 14/41



PLOT DATE: 8/21/2023 4:51 PM SAVE DATE: 5/2/2023 4:02 PM :\SANTA FE COUNTY\SFC222-11

### TRENCH BACKFILL REQUIREMENTS

PAVED TRAVELED AREAS:

NEW PAVEMENT SECTION SEE SPECIFICATIONS

-EXIST. PAVEMENT - SAW CUT PAVEMENT EDGES

(1-1/2" MIN) PRIOR TO REMOVING PAVEMENT

-COMPACTED BACKFILL (4' MINIMUM COVER REQUIREMENT)

-BEDDING AS REQUIRED BY APPROPRIATE

BEDDING CLASS PER SPECIFICATIONS

-IDENTIFICATION TAPE, PLACE 24"

ABOVE PIPE (TYP.) 6" WIDTH

90% ASTM D1557 COMPACTION. TOP 12" BELOW SUBGRADE, 95% ASTM

D1557 COMPACTION.

UNPAVED TRAVELED AREAS:

1. 90% ASTM D1557 COMPACTION.

UNTRAVELED AREAS:

1. 85% ASTM D1557 COMPACTION.

WITHIN ROADWAY PRISM:

1. 95% ASTM D1557 COMPACTION.

						HRUSTS RESTRAI							
						EES, CAPS/VALV							
ļ						AINED JOINT LEN	IGTHS IN	FEET)					
		HORIZONTA	AL BENDS		CAPS/PLUGS				TF	ES			REDUCERS
					/VALVES	Lg/ Sm/							
DIAMETER	11-1/4°	22-1/2°	45°	90°		Run X Br.	Run	Branch	Run	Branch	Run	Branch	
(IN.)	L <sub>R</sub>		L <sub>R</sub>	l k	L <sub>R</sub>	L <sub>R</sub>	L <sub>R</sub>	L <sub>R</sub>	l k				
4	FJO	2	5	12	35	4X4	FJO	28	5	8	10	FJO	N/A
6	2	3	7	17	47	6X6	FJO	42	5	21	10	FJO	N/A
8	2	4	9	23	62	6X4	FJO	26	5	FJO	10	FJO	24
10	3	5	11	27	75	8X8	FJO	57	5	36	10	10	N/A
12	3	6	13	32	88	8X6	FJO	40	5	13	10	FJO	26
				HARRY.		8X4	FJO	23	5	FJO	10	FJO	45
		VERTICAL	BENDS			10X10	FJO	69	5	48	10	21	N/A
DIAMETER	11-1/4°	22-1/2	45°	90,		10X8	FJO	55	5	29	10	FJO	25
(IN.)	<u></u> ₽	₽.	<u></u> ₽	<u></u> ₩		10X6	FJO	39	5	4	10	FJO	46
	тор/воттом	TOP/BOTTOM	тор/воттом	тор/воттом		10X4	FJO	21	5	FJO	10	FJO	61
4	3/2	7/4	14/9	N/A		12X12	FJO	83	5	61	10	34	N/A
6	5/3	9/6	20/12	N/A		12X10	FJO	68	5	42	10	10	43
8	6/4	12/7	26/15	N/A	MANAGE TO	12X8	FJO	54	5	22	10	FJO	47
10	7/4	15/9	31/18	N/A		12X6	FJO	37	5	FJO	10	FJO	64
12	9/5	18/10	37/21	N/A	8	12X4	FJO	18	5	FJO	10	FJ0	77

### JOINT RESTRAINT TABLE

TABLE: THIS TABLE IS BASED ON THE EBAA IRON MEGA LUG JOINT CALCULATIONS PROGRAM WITH THE FOLLOWING INPUT CRITERIA: 3.5FT DEPTH OF BURY (CONSERVATIVE); TRENCH TYPE 4: PVC PIPE MATERIAL: GM SOIL TYPE: 150 PSI TEST PRESSURE: 1.5 SAFETY FACTOR. SPECIFIC CALCULATIONS FOR RESTRAINED LENGTHS ARE REQUIRED FOR CONDITIONS NOT COVERED BY THIS TABLE. LENGTH OF RESTRAINED PIPE, IN FEET, FOR EACH SIDE OF THE FITTING.

MINIMUM RESTRAINED LENGTH: A MINIMUM RESTRAINED LENGTH OF 5 FT. FROM THE FITTING JOINT IS RECOMMENDED. VERTICAL OFFSETS SHALL BE COMPLETELY RESTRAINED BETWEEN THE TOP VERTICAL FITTING AND THE BOTTOM VERTICAL FITTING.

FJO: FITTING JOINT ONLY - THIS INCLUDES AT LEAST A 1 FT. LENGTH OF RESTRAINED PIPE BEYOND THE FITTING JOINT.

-MATCH FINISH GRADE TO EXIST. GRADE

SLOPE OR SHORE TRENCH EXCAVATION

CFR 29 1926

REQUIREMENTS

5' MAX.

ACCORDING TO OSHA

LIMITS OF PAYMENT

FOR PAVEMENT REMOVAL AND

REPLACEMENT IS 10' MAX.

PAVED ROAD TRENCH

VERTICAL OFFSET: USE 11-1/2' BENDS OR 22-1/2" BENDS WHEREVER POSSIBLE DUE TO THE SHORTER RESTRAINED LENGTH REQUIREMENTS.

CAPS/PLUGS: CONCRETE BLOCKING MAY BE REQUIRED BY SFC UTILITIES ON A CASE-BY-CASE BASIS IN ADDITION TO MECHANICAL RESTRAINT.

PIPE LENGTH: PIPING SHALL BE LAID OUT TO MINIMIZE PIPE JOINTS NEAR FITTINGS. WHEREVER POSSIBLE, FULL 20 FT. PIPE LENGTHS SHALL BE UTILIZED WHEN CONNECTING TO FITTINGS OR VALVES. NO PIPE BELL JOINTS SHALL BE USED WHERE FITTINGS ARE LESS THAN 20 FT. APART.

MOLZENCORBIN

2701 Miles Road SF Albuquerque, New Mexico 87106 505 242 5700 office 505 242 0673 fax

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NUMERIC SCALE CONFIRMATION

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O FIRE STATION ADDITION SANTA FE COUNTY CHIMAYO, NM CHIMAYO FIRE

DETAILS

C-505

### GENERAL CRITERIA

DESIGN LOADS SHALL BE CONFIGURED USING INTERNATIONAL BUILDING CODE (IBC) 2015 EDITION, AND ASCE 7-10 MINIMUM DESIGN LOADS FOR BUILDING AND OTHER STRUCTURES. A. SNOW LOAD DESIGN DATA

GROUND SNOW LOAD SNOW EXPOSURE FACTOR (Ce) SNOW IMPORTANCE FACTOR (Is) THERMAL FACTOR (Ct)

B. WIND LOAD DATA BASIC WIND SPEED, Vult 110 MPH 3sec-gust WIND IMPORTANCE FACTOR

WIND EXPOSURE BUILDING CLASSIFICATION TOPOGRAPHIC FACTOR, Kzt WIND STAGNATION PRESSURE, qs\_ \_\_ \_31.00 psf

WIND DESIGN PRESSURE, P h=20 Horz. (Windward)= 18.75 psf, (max.)

Vert. (Roof Uplift) = 15.26 psf (max.) C. EARTHQUAKE DESIGN DATA RISK CATEGORY IMPORTANCE FACTOR (Ie) 1.5 \_ 0 4916 0.1445 SITE CLASS

0.478 SDs 0.223 SEISMIC DESIGN CATEGORY SEISMIC FORCE-RESISTING SYSTEM \_\_ A13 SEISMIC COEFFICIENT, CS 0.1064 SEISMIC COEFFICIENT, R 6.5

D. DESIGN LOADS FLOOR & ROOF ROOF DEAD LOAD 15 psf LIVELOAD 20 psf (SNOW) **FLOOR** 

LIVE LOAD LIVE LOAD

2. CAST-IN-PLACE CONCRETE

A. F'c = 4000psi @ 28 DAYS (AIR ENTRAINED) - ALL EXTERIOR BUILDING B. F'c = 3000psi @ 28 DAYS (NONE AIR ENTRAINED) - ALL BUILDING

- 3. REINFORCING SHALL CONFORM TO THE REQUIREMENTS OF ASTM A615 OR A706, GRADE 60.
- UNLESS NOTED OTHERWISE, LAP SPLICED OR EMBEDMENT LENGTHS SHALL CONFORM TO TABLE A, CLASS B SPLICE. SEE THIS SHEET, TABLE A.
- UNLESS NOTED OTHERWISE, CONCRETE COVER OVER STEEL REINFORCEMENT SHALL CONFORM TO THE MINIMUMS REQUIRED BY CURRENT ADDITION OF ACI 318.
- 6. REINFORCEMENT DETAILING AND PLACEMENT SHALL CONFORM TO ACI 318 AND ACI 315, EXCEPT
- COVER: UNLESS OTHERWISE NOTED OR DETAILED, THE FOLLOWING MINIMUM CONCRETE COVER SHALL BE PROVIDED FOR REINFORCEMENT

	EXPOSURE	MINIMUM COVER (IN.)
A.	CONCRETE CAST AGAINST AND	
	PERMANENTLY EXPOSED TO EARTH:	3
В.	CONCRETE EXPOSED TO EARTH OR WEATHE	ER:
	#6 - #18 BARS	2
	#5 - AND SMALLER	1 1/2
C.	CONCRETE NOT EXPOSED TO WEATHER	
	OR NOT IN CONTACT WITH GROUND:	
	SLABS, WALLS, JOISTS:	
	#11 AND SMALLER	3/4
	BEAMS, COLUMNS:	
	TIES, STIRRUPS, PRIMARY REINFORCEMENT	1 1/2

### **FOUNDATION NOTES**

- 1. DESIGN FOUNDATION BEARING PRESSURE (NET) 1500 PSF DEAD + LIVE LOAD. DESIGN PRESSURE MAY BE INCREASED BY 1/3 FOR COMBINED VERTICAL AND WIND/SEISMIC LOADS. SEE IBC CONTRACTOR SHALL BE RESPONSIBLE TO REVIEW THE GEO-TECHNICAL REPORT AND SHALL FOLLOW THE RECOMMENDATIONS SPECIFIED THEREIN AND AS SHOWN IN DETAIL 9/S301
- 2. REINFORCEMENT SHALL BE PLACED MID-DEPTH OF SLAB, U.N.O. CHAMFER EXPOSED EDGES OF CONCRETE 3/4", AT EXPOSED EDGES UNLESS OTHERWISE NOTED.
- 3. SUB-GRADE PREPARATION:
  - A. EXISTING FOUNDATIONS AND UTILITIES AT ANY POINT BENEATH OR WITHIN 3'-0" OF THE NEW STRUCTURES SHALL BE REMOVED ENTIRELY, ANY FILL MATERIAL FROM PREVIOUS CONSTRUCTION ACTIVITIES WHICH IS ENCOUNTERED WITHIN THE BUILDING FOOTPRINT SHOULD ALSO BE REMOVED ENTIRELY. EXPOSED SUB-GRADE AT THE BASE OF REQUIRED EXCAVATION WHICH IS TO RECEIVE FILL SHALL BE COMPACTED TO NOT LESS THAN 90% MAXIMUM LAB DENSITY FOR COHESIVE MATERIAL, AND 95% MAXIMUM LAB DENSITY FOR COHESION-LESS MATERIAL, TO A MINIMUM DEPTH OF 8". SEE EXCAVATION/FILL DETAIL
- 4. FILL: ALL FILL PLACED UNDER BUILDING SLABS SHALL BE NON-EXPANSIVE AND SHALL BE COMPACTED TO NOT LESS THAN 95% MAXIMUM DENSITY ACCORDING TO ASTM D-1557, SEE GEO-TECHNICAL REPORT FOR COMPLETE INFORMATION.

### **MASONRY**

- 1 UNLESS OTHERWISE NOTED ALL CONCRETE MASONRY UNITS (CMU) SHALL BE 2-CELL BLOCK AND HAVE A 28 DAY MINIMUM COMPRESSIVE STRENGTH OF 1900 PSI ON NET AREA, AND MASONRY GROUT SHALL TYPE S WITH A COMPRESSIVE STRENGTH OF 1800 psi
- 2. ALL MASONRY BOND BEAMS, LINTELS AND BLOCKS WITH EMBEDDED ANCHOR BOLTS SHALL BE FILLED WITH 2000 PSI GROUT.
- LAP ALL MASONRY REINFORCING BARS 40 DIAMETERS OR 18" MINIMUM UNLESS OTHERWISE NOTED.
- 4. VERTICAL CELLS TO BE FILLED SHALL BE VERTICAL ALIGNMENT SUFFICIENT TO MAINTAIN A CLEAR UNOBSTRUCTED CONTINUOUS VERTICAL CELL NOT LESS THAN 2"x3" IN PLAN DIMENSIONS
- 5. FOUNDATION DOWELS SHALL EXTEND A MINIMUM OF 40 DIAMETERS OR 24" MINIMUM INTO THE FOUNDATION CONCRETE AND 40 DIAMETERS INTO THE MASONRY WALL OR PARTITION. LAPS OR SPLICES OF REINFORCING STEEL IN MASONRY SHALL BE 2'-0" OR 40 DIAMETERS WHICHEVER IS GREATER. THERE SHALL BE A FOUNDATION DOWEL FOR EACH VERTICAL REINFORCING BAR
- VERTICAL WALL REINFORCING SHALL EXTEND CONTINUOUSLY FROM THE TOP OF FOUNDATION TO EMBED AT LEAST 6" INTO TOP OF WALL
- 7. AN ADDITIONAL VERTICAL BAR WITH FOUNDATION DOWEL, SAME SIZE AND LENGTH AS NORMAL REINFORCING BAR, SHALL BE PLACED. ON EACH SIDE OF CONTROL JOINTS.
  - AT INTERSECTION OF EXTERIOR WALLS
- 8. BOND BEAM REINFORCING STEEL FOR INTERIOR AND EXTERIOR WALLS SHALL BE CONTINUOUS THROUGHOUT.
  - A. AT CONTROL JOINTS INTERMEDIATE BOND BEAM REINFORCEMENT SHALL BE CONTINUOUS. REINFORCEMENT IN BOND SEAMS AT FLOOR AND ROOF DIAPHRAGM LEVELS SHALL BE CONTINUOUS.
  - B. AT ISOLATION JOINTS ALL BOND BEAM REINFORCING STEEL SHALL BE CONTINUOUS.
- DETAILS OF MASONRY WALL CONTROL AND ISOLATION JOINTS ARE SHOWN ON STRUCTURAL DETAIL SHEETS. LOCATIONS OF MASON JOINTS WILL ALIGN WITH THE LOCATIONS OF EXTERIOR WALL FINISH CONTROL JOINTS AS SHOWN ON ARCHITECTURAL ELEVATION
- 10. BARS AROUND PERIMETER OF OPENINGS SHALL EXTEND NOT LESS THAN 40 BAR DIAMETERS OR 24", WHICHEVER IS LARGER, BEYOND CORNER OF OPENING. FOUNDATION DOWELS ARE ONLY REQUIRED WHEN BAR DEVELOPMENT LENGTH DOES NOT EXIST BELOW THE
- 11. HORIZONTAL REINFORCING SHALL BE SPACED NO GREATER THAT 48" O.C. UNLESS NOTED OTHERWISE ON THE DRAWINGS
- 12. A-BOLTS CAN NOT BE SUBSTITUTED FOR WITH EXPANSION ANCHORS.

### STRUCTURAL STEEL

- 1. ALL STRUCTURAL STEEL MEMBERS SUCH AS COLUMNS, BEAMS, GIRTS AND BRACES SHALL BE PER SCHEDULE OF CONSTRUCTION MATERIALS THIS SHEET. MISCELLANEOUS STEEL ITEMS SHALL BE ASTM A36. MISCELLANEOUS STEEL TUBES SHALL BE ASTM A500, GRADE B.
- 2. ALL WELDING SHALL BE DONE IN ACCORDANCE WITH AWS CODE
- ALL BOLTS FOR BEAM CONNECTIONS SHALL BE ASTM A325 WITH A MINIMUM DIAMETER OF 3/4". UNLESS NOTED OTHERWISE, ALL BOLTED CONNECTIONS SHALL BE BEARING TYPE CONNECTIONS. WASHERS SHALL BE INSTALLED UNDER NUTS OF FASTENERS WHEN REQUIRED BY THE SPECIFICATION FOR JOINTS
- 4. ALL FIELD WELDS SHALL BE INSPECTED PER SHEET S-002.
- 5. STEEL BEAMS SHALL BE CONCENTRIC WITH COLUMNS, UNLESS OTHERWISE NOTED
- 6. ALL ANCHOR BOLTS SHALL BE ASTM A36 OR A307, UNLESS NOTED
- 7. NO OPENINGS SHALL BE CUT IN STRUCTURAL MEMBERS UNLESS SHOWN ON THE DRAWINGS
- BUILDING STEEL ROOF BEAMS AND SUPPORT POST ARE NON-SELF-SUPPORTING. THE ROOF METAL DECK, VERTICAL STEEL BRACING AND MASONRY WALLS ARE REQUIRED TO PROVIDE LATERAL STABILITY FOR THE STEEL BEAMS AND COLUMNS. CONTRACTOR SHALL PROVIDE ALL TEMPORARY BRACING REQUIRED TO MAINTAIN STABILITY OF THE POST AND BEAM SYSTEM UNTIL THESE BRACING ELEMENTS ARE IN PLACE

	SCHEDULE OF CONSTRUCTION N	MATERIALS						
	LOCATION	28-DAY COMPRESSIVE STRENGTH						
CONCRETE	EXTERIOR CONCRETE (EXPOSED TO FREEZING AND/OR DE-ICERS)	4,000 P.S.I. MIX TYPE D						
	EXTERIOR CONCRETE (NOT EXPOSED TO FREEZING)	3,000 P.S.I. MIX TYPE A						
	FOOTINGS	3,000 P.S.I. MIX TYPE A						
	FOUNDATION WALLS	3,000 P.S.I. MIX TYPE D						
	INTERIOR SLABS ON GRADE	3,000 P.S.I. MIX TYPE E						
	NOTE: CONCRETE STRENGTH USED IN DESIGN IS 3,000 P.S.I.							
STRUCTURAL	APPLICATION	MATERIAL						
STEEL	SQUARE OR RECTANGULAR HSS	ASTM A500 (46ksi) GRADE B						
	WIDE FLANGES SECTIONS	ASTM A992 (50ksi)						
	OTHER SHAPES AND PLATES	ASTM A36 (36ksi)						
REINFORCING STEEL	BARS SHOWN ON DRAWING TO BE FIELD BENT	ALL OTHER BARS						
	ASTM A615, GRADE 40 OR GRADE 60 (SEE LAP SPLICE SCHEDULE D/S003 FOR LAP LENGTHS	ASTM A615, GRADE 60 (SEE LAP SPLICE SCHEDULE D/S003 FOR LAP LENGTHS)						

Type A - Water reducing admixture. This is used to reduce the quantity of mixing water at a given workability or increase workability at a given water content.

Type B - Retarding admixture used for increasing setting time of concrete

Type C - Accelerating admixture used for decreasing setting time and to develop early strength gain

Type D - Water reducing and retarding admixture has the effects of both A and B.

Type E - Water reducing and accelerating admixtures has the effects of both A and C.

		APPLICATION	9	PECIES AND MIN	IMLIM CDADE					
					IIVIOIVI GRADE					
		TOP PLATES	DOUGLAS FIR-LARCH #2 OR BETTER							
		STRUTS ROOF JOISTS		HEM FIR #2 OR BETTER SPRUCE-PINE-FIR #2 OR BETTER						
		FLOOR JOISTS		1.5E OR BETTER						
		MISC. FRAMING	MOTO TOOOT	1.0L OIL DETTER						
		HEADERS								
		BEAMS								
		LEDGERS	DOLLOL AC EID LADOLL	#0 OD DETTED						
		BLOCKING	DOUGLAS FIR-LARCH HEM FIR	#2 OR BETTER #2 OR BETTER						
	~		SPRUCE-PINE-FIR							
	LUMBER		MSR 1650F	1.5E OR BETTER						
	Ĭ	POSTS AND TIMBERS	DOUGLAS FIR-LARCH	#2 OR BETTER						
OD		5"x5" AND LARGER	SOUTHERN PINE #2 OR BETTER							
WOOD	DIMENSION	SILL PLATES	2x4	<u>4's</u>	2x6's OR GREATER					
	Ë		DOUGLAS FIR-LARCH	STANDARD OR BETTER	DOUGLAS FIR-LARCH	#2 OR BETTER				
	Ξ		HEM FIR	STANDARD OR BETTER		#2 OR BETTER				
	ш		SPRUCE-PINE-FIR			#2 OR BETTER				
			SCL	1.3E	SCL	1.5E				
		TRUSSED RAFTERS (CHORDS AND WEBS)	DOUGLAS FIR-LARCH	#2 OR BETTER #2 OR BETTER						
		(CHORDS AND WEBS)	SPRUCE-PINE-FIR							
			MSR 1650F	1.5E OR BETTER						
		EXTERIOR WALL STUDS &		STUD GRADE OR BETTER. SEE NOTE 3						
		INTERIOR STRUCTURAL	HEM FIR	STUD GRADE OR BETTE						
		WALL STUDS	SPRUCE-PINE-FIR	STUD GRADE OR BETTE						
		INTERIOR NON-STRUCTURAL WALL	DOUGLAS FIR-LARCH	STANDARD, UTILITY, COI STANDARD, UTILITY, COI						
		STUDS	SPRUCE-PINE-FIR	STANDARD, UTILITY, COI						

N 10 A T	ION.		DESIGN VALUES (SEE NOTE 1) - P.S.I.							
LICAT	ION	Fb	Fv	Fc⊥	Fc	E x 10 6				
1-1/2" x=	< 5-1/2"	1700	285	680	1400	1.3				
1-1/2" x	ALL DEPTHS	2,250	285	750	2,175	1.5				
1-3/4" x	ALL DEPTHS	2,600	285	750	2,510	1.9				
3-1/2" x	ALL DEPTHS	1,700	285	680	1,400	1.3				
			ALLOWABLE STRESSES - P.S.I.							
			Fb TENSION ZONE	Fb COMPRESSION ZONE STRESSED IN TENSION	Fv	Fc	E x 10 6			
ALL BEAMS	ISD/SD (M// STRESS CLASS)			1450 (MIN.) SEE NOTE 2	265 (MIN.)	1,600 (MIN.)	1.8 (MIN.)			
	1-1/2" x= 1-1/2" x x 1-3/4" x x 3-1/2" x	ALL SP/SP (W/ STRE	1-1/2" x=< 5-1/2"   1700    -1-1/2" x ALL DEPTHS   2,250    -3/4" x ALL DEPTHS   2,600    3-1/2" x ALL DEPTHS   1,700    ALL BEAMS   24F-V4 DF/DF OR 24F-V3    SP/SP (W/ STRESS CLASS)	PLICATION    1-1/2" x=< 5-1/2"	1-1/2" x=< 5-1/2"   1700   285   680     1-1/2" x ALL DEPTHS   2,250   285   750     1-3/4" x ALL DEPTHS   2,600   285   750     3-1/2" x ALL DEPTHS   1,700   285   680     ALLOWABLE STF   Fb COMPRESSION ZONE STRESSED IN TENSION ZONE   TENSION ZONE STRESSED IN TENSION SP/SP (W/ STRESS CLASS)   1450 (MIN.)   1450 (MIN.) SEE NOTE 2	1-1/2" x=< 5-1/2"   1700   285   680   1400     1-1/2" x ALL DEPTHS   2,250   285   750   2,175     1-3/4" x ALL DEPTHS   2,600   285   750   2,510     3-1/2" x ALL DEPTHS   1,700   285   680   1,400     ALLOWABLE STRESSES   Fb COMPRESSION ZONE STRESSED IN TENSION ZONE STRESSED IN TENSION ZONE STRESSED IN TENSION SP/SP (W/ STRESS CLASS)   1450 (MIN.) SEE NOTE 2   265 (MIN.)	1-1/2" x=< 5-1/2"   1700   285   680   1400   1.3    -1-1/2" x ALL DEPTHS   2,250   285   750   2,175   1.5    -3/4" x ALL DEPTHS   2,600   285   750   2,510   1.9    -3-1/2" x ALL DEPTHS   1,700   285   680   1,400   1.3			

- DESIGN VALUES ARE FOR NORMAL DURATION. REPETITIVE FRAMING FACTORS AND SIZE FACTORS HAVE NOT BEEN APPLIED.
- 1850 FOR DF/DF COMBINATION AND 1950 FOR SP/SP COMBINATION
- FOR 2x6 AND LARGER, USE #2 GRADE OR BETTER FOR ANY OF THE THREE WOOD TYPES

### MOLZENCORBIN

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NOTICE OF EXTENDED PAYMENT PROVISION. PAYMENT WITHIN 45 DAYS AFTER SUBMISSIO OF AN UNDISPUTED REQUEST FOR PAYMEN

> NUMERIC SCALE CONFIRMATION DRAWINGS ARE DEPICTED AT INTENDED NUMERIC SCALES IF THIS BAR EQUALS ONE INCH



STATION ADDITION NOTES FE COUNTY, NEW MEXIC MEXIC GENERAL STRUCTURAL SANTA F CHIMAYO, ] FIRE CHIMAYO

 $S-00^{\circ}$ 

### **DEFINITIONS**

THE FOLLOWING DEFINITIONS COVER THE MEANINGS OF CERTAIN TERMS USED IN THESE NOTES:

'ARCHITECT/ENGINEER' - THE ARCHITECT OF RECORD AND THE STRUCTURAL ENGINEER OF RECORD

- 'STRUCTURAL ENGINEER OF RECORD' (SER) THE STRUCTURAL ENGINEER WHO IS LICENSED TO STAMP AND SIGN THE STRUCTURAL DOCUMENTS FOR THE PROJECT. THE SER IS RESPONSIBLE FOR THE DESIGN OF THE PRIMARY STRUCTURAL SYSTEM
- 'SUBMIT FOR REVIEW' SUBMIT TO THE ARCHITECT/ENGINEER FOR REVIEW PRIOR TO FABRICATION OR CONSTRUCTION.
- 'PER PLAN' INDICATES REFERENCES TO THE STRUCTURAL PLANS, ELEVATIONS AND STRUCTURAL GENERAL NOTES.
- 'SPECIALTY STRUCTURAL ENGINEER' (SSE) A PROFESSIONAL ENGINEER (PE OR SE), LICENSED IN THE STATE WHERE THE PROJECT IS LOCATED, (TYPICALLY NOT THE SER), WHO PERFORMS SPECIALTY STRUCTURAL ENGINEERING SERVICES FOR SELECTED SPECIALTY-ENGINEERED ELEMENTS IDENTIFIED IN THE CONTRACT DOCUMENTS, AND WHO HAS EXPERIENCE AND TRAINING IN THE SPECIALTY DOCUMENTS STAMPED AND SIGNED BY THE SSE SHALL BE COMPLETED BY OR UNDER THE DIRECT SUPERVISION OF THE SSE.
- 'BIDDER-DESIGNED' COMPONENTS OF THE STRUCTURE THAT REQUIRE THE GENERAL CONTRACTOR, SUBCONTRACTOR, OR SUPPLIER WHO IS RESPONSIBLE FOR THE DESIGN, FABRICATION AND INSTALLATION OF SPECIALTY-ENGINEERED ELEMENTS IDENTIFIED IN THE CONTRACT DOCUMENTS TO RE-RETAIN THE SERVICES OF AN SSE. SUBMITTALS OF 'BIDDER-DESIGNED' ELEMENTS SHALL BE STAMPED AND SIGNED BY THE SSE

OTHER DRAWINGS: REFER TO THE ARCHITECTURAL, MECHANICAL, ELECTRICAL, CIVIL AND PLUMBING DRAWINGS FOR ADDITIONAL INFORMATION INCLUDING BUT NOT LIMITED TO: DIMENSIONS, ELEVATIONS, SLOPES, DOOR AND WINDOW OPENINGS, NON-BEARING WALLS, STAIRS, FINISHES, DRAINS WATERPROOFING, RAILINGS, MECHANICAL UNIT LOCATIONS, AND OTHER NON-STRUCTURAL ITEMS.

STRUCTURAL DETAILS: THE STRUCTURAL DRAWINGS ARE INTENDED TO SHOW THE GENERAL CHARACTER AND EXTENT OF THE PROJECT AND ARE NOT INTENDED TO SHOW ALL DETAILS OF THE WORK.

STRUCTURAL RESPONSIBILITIES: THE STRUCTURAL ENGINEER (SER) IS RESPONSIBLE FOR THE STRENGTH AND STABILITY OF THE PRIMARY STRUCTURE IN ITS COMPLETED FORM.

COORDINATION: THE CONTRACTOR IS RESPONSIBLE FOR COORDINATING DETAILS AND ACCURACY OF THE WORK: FOR CONFIRMING AND CORRELATING ALL QUANTITIES AND DIMENSIONS: FOR SELECTING FABRICATION PROCESSES: FOR TECHNIQUES OF ASSEMBLY: AND FOR PERFORMING WORK IN A SAFE AND

MEANS, METHODS AND SAFETY REQUIREMENTS: THE CONTRACTOR IS RESPONSIBLE FOR THE MEANS AND METHODS OF CONSTRUCTION AND ALL JOB RELATED SAFETY STANDARDS SUCH AS OSHA AND DOSH (DEPARTMENT OF OCCUPATIONAL SAFETY AND HEALTH).

BRACING/SHORING DESIGN ENGINEER: THE CONTRACTOR SHALL, AT HIS DISCRETION EMPLOY AN SSE, A REGISTERED PROFESSIONAL ENGINEER FOR THE DESIGN OF ANY TEMPORARY BRACING AND SHORING.

TEMPORARY SHORING, BRACING: THE CONTRACTOR IS RESPONSIBLE FOR THE STRENGTH AND STABILITY OF THE STRUCTURE DURING CONSTRUCTION AND SHALL PROVIDE TEMPORARY SHORING, BRACING AND OTHER ELEMENTS REQUIRED TO MAINTAIN STABILITY UNTIL THE STRUCTURE IS COMPLETE. IT IS THE CONTRACTOR'S RESPONSIBILITY TO BE FAMILIAR WITH THE WORK REQUIRED IN THE CONSTRUCTION DOCUMENTS AND THE REQUIREMENTS FOR EXECUTING IT PROPERLY

CONSTRUCTION LOADS: LOADS ON THE STRUCTURE DURING CONSTRUCTION SHALL NOT EXCEED THE DESIGN LOADS AS NOTED IN DESIGN CRITERIA & LOADS BELOW OR THE CAPACITY OF PARTIALLY COMPLETED CONSTRUCTION AS DETERMINED BY THE CONTRACTOR'S SSE FOR BRACING/SHORING.

CHANGES IN LOADING: THE CONTRACTOR HAS THE RESPONSIBILITY TO NOTIFY THE SER OF ANY ARCHITECTURAL, MECHANICAL, ELECTRICAL, OR PLUMBING LOAD IMPOSED ONTO THE STRUCTURE THAT DIFFERS FROM, OR THAT IS NOT DOCUMENTED ON THE ORIGINAL CONTRACT DOCUMENTS (ARCHITECTURAL / STRUCTURAL / MECHANICAL / ELECTRICAL OR PLUMBING DRAWINGS). PROVIDE DOCUMENTATION OF LOCATION, LOAD, SIZE AND ANCHORAGE OF ALL UNDOCUMENTED LOADS IN EXCESS OF 400 POUNDS. PROVIDE MARKED-UP STRUCTURAL PLAN INDICATING LOCATIONS OF ANY NEW EQUIPMENT OR LOADS. SUBMIT PLANS TO THE ARCHITECT/ENGINEER FOR REVIEW PRIOR TO INSTALLATION

NOTE PRIORITIES: PLAN AND DETAIL NOTES AND SPECIFIC LOADING DATA PROVIDED ON INDIVIDUAL PLANS AND DETAIL DRAWINGS SUPPLEMENTS INFORMATION IN THE STRUCTURAL GENERAL NOTES.

DISCREPANCIES: IN CASE OF DISCREPANCIES BETWEEN THE GENERAL NOTES, SPECIFICATIONS, PLAN/DETAILS OR REFERENCE STANDARDS, THE ARCHITECT/ENGINEER SHALL DETERMINE WHICH SHALL GOVERN. DISCREPANCIES SHALL BE BROUGHT TO THE ATTENTION OF THE ARCHITECT/ENGINEER BEFORE PROCEEDING WITH THE WORK. SHOULD ANY DISCREPANCY BE FOUND IN THE CONTRACT DOCUMENTS, THE CONTRACTOR WILL BE DEEMED TO HAVE INCLUDED IN THE PRICE THE MOST EXPENSIVE WAY OF COMPLETING THE WORK LINESS PRIOR TO THE SUBMISSION OF THE PRICE. THE CONTRACTOR ASKS FOR A DECISION FROM THE ARCHITECT AS TO WHICH SHALL GOVERN. ACCORDINGLY, ANY CONFLICT IN OR BETWEEN THE CONTRACT DOCUMENTS SHALL NOT BE A BASIS FOR ADJUSTMENT IN THE CONTRACT PRICE.

SITE VERIFICATION: THE CONTRACTOR SHALL VERIFY ALL DIMENSIONS AND CONDITIONS AT THE SITE. CONFLICTS BETWEEN THE DRAWINGS AND ACTUAL SITE CONDITIONS SHALL BE BROUGHT TO THE ATTENTION OF THE ARCHITECT/ENGINEER BEFORE PROCEEDING WITH THE WORK

ADJACENT UTILITIES: THE CONTRACTOR SHALL DETERMINE THE LOCATION OF ALL ADJACENT UNDERGROUND UTILITIES PRIOR TO EARTHWORK, FOUNDATIONS, SHORING, AND EXCAVATION. ANY UTILITY INFORMATION SHOWN ON THE DRAWINGS AND DETAILS IS APPROXIMATE AND NOT NECESSARILY COMPLETE.

ALTERNATES: ALTERNATE PRODUCTS OF SIMILAR STRENGTH, NATURE, AND FORM FOR SPECIFIED ITEMS MAY BE SUBMITTED WITH ADEQUATE TECHNICAL DOCUMENTATION TO THE ARCHITECT/ENGINEER FOR REVIEW. ALTERNATE MATERIALS THAT ARE SUBMITTED WITHOUT ADEQUATE TECHNICAL DOCUMENTATION OR THAT SIGNIFICANTLY DEVIATE FROM THE DESIGN INTENT OF MATERIALS SPECIFIED MAY BE RETURNED WITHOUT REVIEW. ALTERNATES THAT REQUIRE SUBSTANTIAL EFFORT TO REVIEW WILL NOT BE REVIEWED UNLESS AUTHORIZED BY THE OWNER.

### **SUBMITTALS**

SUBMIT FOR REVIEW: SUBMITTALS OF SHOP DRAWINGS, AND PRODUCT DATA ARE REQUIRED FOR ITEMS NOTED IN THE INDIVIDUAL MATERIALS SECTIONS AND FOR BIDDER DESIGNED ELEMENTS.

SUBMITTAL REVIEW PERIOD: SUBMITTALS SHALL BE MADE IN TIME TO PROVIDE A MINIMUM OF TWO WEEKS FOR REVIEW BY THE ARCHTECT/ENGINEER PRIOR TO THE ONSET OF FABRICATION.

GENERAL CONTRACTOR'S PRIOR REVIEW: PRIOR TO SUBMISSION TO THE ARCHITECT/ENGINEER THE CONTRACTOR SHALL REVIEW THE SUBMITTAL FOR COMPLETENESS. DIMENSIONS AND OLIANTITIES ARE NOT REVIEWED BY THE 'SER' AND THEREFOR MUST BE VERIFIED BY THE GENERAL CONTRACTOR, CONTRACTOR SHALL PROVIDE ANY NECESSARY DIMENSIONAL DETAILS REQUESTED BY THE DETAILER AND PROVIDE THE CONTRACTOR'S REVIEW STAMP AND SIGNATURE BEFORE FORWARDING TO THE ARCHITECT/ENGINEER.

SHOP DRAWING REVIEW: ONCE THE CONTRACTOR HAS COMPLETED THE REQUIRED PRIOR REVIEW, THE 'SER' WILL REVIEW THE SUBMITTAL FOR GENERAL CONFORMANCE WITH THE DESIGN INTENT AND THE CONTRACT DOCUMENTS OF THE BUILDING AND WILL STAMP THE SUBMITTAL ACCORDINGLY. MARKINGS OR COMMENTS SHALL NOT BE CONSTRUED AS RELIEVING THE CONTRACTOR FROM COMPLIANCE WITH THE PROJECT PLANS AND SPECIFICATIONS, NOR THE DEPARTURES THERE FROM.

SHOP DRAWING DEVIATIONS: WHEN SHOP DRAWINGS (COMPONENT DESIGN DRAWINGS) DIFFER FROM OR ADD TO THE REQUIREMENTS OF THE STRUCTURAL DRAWINGS THEY SHALL BE DESIGNED AND STAMPED BY THE RESPONSIBLE 'SSE'.

### DEFERRED SUBMITTALS

BIDDER-DESIGNED ELEMENTS

SUBMIT "BIDDER-DESIGNED" DEFERRED SUBMITTALS TO THE ARCHITECT AND 'SER' FOR REVIEW PRIOR TO SUBMISSION TO THE APPROVING AGENCY.

DESIGN OF PREFABRICATED. "BIDDER-DESIGNED". MANUFACTURED. PRE-ENGINEERED. OR OTHER FABRICATED PRODUCTS SHALL COMPLY WITH THE FOLLOWING REQUIREMENTS: DESIGN CONSIDERS TRIBUTARY DEAD, LIVE, WIND AND EARTHQUAKE LOADS IN COMBINATIONS

- REQUIRED BY IBC
- DESIGN WITHIN THE DEFLECTION LIMITS NOTED HEREIN AND AS SPECIFIED OR REFERENCED IN
- DESIGN SHALL CONFORM TO THE SPECIFICATIONS AND REFERENCE STANDARDS OF THE
- GOVERNING CODE.
- SUBMITTAL SHALL INCLUDE
  - a. CALCULATIONS PREPARED, STAMPED AND SIGNED BY THE 'SSE' DEMONSTRATING CODE CONFORMANCE
  - ENGINEERED COMPONENT DESIGN DRAWINGS ARE PREPARED, STAMPED AND SIGNED
  - PRODUCT DATA, TECHNICAL INFORMATION AND MANUFACTURER'S WRITTEN REQUIREMENTS AND AGENCY APPROVALS AS APPLICABLE.
  - 'SSE' MAY SUBMIT TO THE ARCHITECT/ENGINEER, A REQUEST TO UTILIZE RELEVANT ALTERNATE DESIGN CRITERIA OF SIMILAR NATURE AND GENERALLY FOLIVALENCY WHICH IS RECOGNIZED BY THE CODE AND ACCEPTABLE TO THE AUTHORITY HAVING JURISDICTION. SUBMIT ADEQUATE DOCUMENTATION OF DESIGN.

DEFLECTION LIMITS:	VERTICAL	LIMIT
	ROOF MEMBERS, DEAD + LIVE OR SNOW OR WIND, TOTAL LOAD (TL) DEFLECTION	L / 240, WHERE (L IS SPAN LENGTH, INCHES)
	ROOF, LIVE OR SNOW OR WIND LOAD (RLL)	L / 360
	FLOOR MEMBERS, TOTAL LOAD (TL) uno	L / 240
	FLOOR LIVE LOAD (LL) uno	L / 360
	HORIZONTAL	LIMIT AND FOOTNOTE
	MEMBERS SUPPORTING BRITTLE FINISHES	L / 240 (1)
	MEMBERS SUPPORTING FLEXIBLE FINISHES	L / 180 (1)

(1) WIND LOAD IS REDUCIBLE TO 0.6 TIMES THE COMPONENT AND CLADDING LOADS PER TABLE 1604.3

GENERAL CONTRACTOR'S PRIOR REVIEW: ONCE THE CONTRACTOR HAS COMPLETED THE REVIEW OF THE 'SSE' COMPONENT DRAWINGS, THE 'SER' WILL REVIEW THE SUBMITTAL FOR GENERAL CONFORMANCE WITH THE DESIGN OF THE BUILDING AND WILL STAMP THE SUBMITTAL ACCORDINGLY. REVIEW OF THE SPECIALTY STRUCTURAL ENGINEER'S 'SSE' SHOP DRAWINGS (COMPONENT DESIGN DRAWINGS) IS FOR COMPLIANCE WITH DESIGN CRITERIA AND COMPATIBILITY WITH THE DESIGN OF THE PRIMARY STRUCTURE AND DOES NOT RELIEVE THE 'SSE' OF RESPONSIBILITY FOR THAT DESIGN. ALL NECESSARY BRACING, TIES, ANCHORAGE, PROPRIETARY PRODUCTS SHALL BE FURNISHED AND INSTALLED PER MANUFACTURER'S INSTRUCTIONS OR THE 'SSE'S' DESIGN DRAWINGS AND CALCULATIONS. THESE ELEMENTS INCLUDE BUT ARE NOT LIMITED TO THE FOLLOWING:

"BIDDER-DESIGNED" DEFERRED SUBMITTALS

TEMPORARY SHORING SYSTEMS

### QUALITY ASSURANCE (TESTING AND INSPECTION)

QUALITY ASSURANCE (TESTING AND INSPECTION) AS REQUIRED BY THE OWNER AND SECTIONS 1704 THRU 1709 OF THE IBC, SHALL BE PROVIDED BY A QUALIFIED AGENCY SELECTED BY THE OWNER THE CONTRACTOR SHALL COORDINATE AND COOPERATE WITH THE REQUIRED INSPECTIONS. ALL TESTING AND INSPECTION REPORTS SHALL BE SENT WITHIN 24 HOURS OF THE TEST OR INSPECTION TO THE OWNER, ARCHITECT, APPLICABLE ENGINEER, BUILDING OFFICIAL AND GENERAL CONTRACTOR. ITEMS REQUIRING QUALITY ASSURANCE (TESTING AND

- SOILS/ENGINEERED FILL (IBC SECTION 1705.6 AND TABLE 1705.6):
  - A. REFER TO SPECIFICATION SECTION 01 4523 FOR ADDITIONAL AND SPECIFIC TESTING AND INSPECTION REQUIREMENTS
  - B. PRIOR TO PLACEMENT OF THE PREPARED FILL, THE INSPECTOR SHALL DETERMINE THAT THE SITE HAS BEEN PREPARED IN ACCORDANCE WITH THE SOILS REPORT
  - C. DURING PLACEMENT AND COMPACTION OF THE FILL MATERIAL, THE INSPECTOR SHALL DETERMINE THAT THE MATERIAL BEING USED AND THE MAXIMUM LIFT THICKNESS COMPLIES WITH THE GEO-TECHNICAL'S REPORT.
  - D. THE INSPECTOR SHALL DETERMINE THAT THE IN-PLACE DRY DENSITY OF THE ENGINEERED FILL MATERIAL COMPLIES WITH THE GEO-TECHNICAL REPORT.
    - 1. CONTINUOUS FOOTING ENGINEERED FILL: SEE SPECIFICATIONS.
    - 2. SPOT FOOTING ENGINEERED FILL: SEE SPECIFICATIONS.
    - 3. SITE WORK ENGINEERED FILL (PAVED AREAS, SIDEWALKS, TRENCHES, ETC.): SEE
    - 4. BUILDING PAD ENGINEERED FILL: SEE SPECIFICATIONS.
- CONCRETE (IBC SECTION 1705.3 AND TABLE 1705.3):
- A. REFER TO SPECIFICATION SECTION 01 4523 FOR ADDITIONAL AND SPECIFIC TESTING AND INSPECTION REQUIREMENTS
- B. CYLINDERS, SLUMP, TEMPERATURE AND AIR-ENTRAINMENT SHALL BE DONE. PROVIDE SIX SAMPLES EACH FOR EXTERIOR SITE WORK CONCRETE, FOOTINGS, FOUNDATION WALLS AND INTERIOR SLABS ON GRADE
- C. PROTECTION OF CONCRETE DURING COLD AND HOT WEATHER
- PREFABRICATED METAL PLATE WOOD TRUSSES (IBC SECTIONS 1705.5)
  - A. REFER TO SPECIFICATION SECTION 06 1753 SHOP-FABRICATED WOOD TRUSSES: TRUSSED RAFTERS FOR CERTIFICATION REQUIREMENTS.
  - B. THE INSPECTOR SHALL VERIFY THAT THE FABRICATOR MAINTAINS DETAILED FABRICATION AND QUALITY CONTROL PROCEDURES THAT PROVIDE A BASIS OF INSPECTION CONTROL OF THE WORKMANSHIP AND THE FABRICATORS ABILITY TO CONFORM TO APPROVED CONSTRUCTION DOCUMENTS AND REFERENCED STANDARDS.
- WOOD DIAPHRAGMS AND SHEAR WALLS (IBC SECTION 1705.5)
- A. FOR WALLS AND ROOF AREAS WHERE THE NAIL SPACING IS 4 INCHES AND LESS ON CENTER, THE INSPECTOR SHALL VERIFY WOOD PANEL SHEATHING GRADE, THICKNESS AND NOMINAL SIZE OF FRAMING MEMBERS, ADJOINING PANEL EDGES, NAIL SIZE AND SPACING, BOLTING AND OTHER FASTENING OF COMPONENTS
- EPOXY ANCHORS (IBC SECTION 1706.1):
- A. REFER TO SPECIFICATION SECTION 01 4523 FOR ADDITIONAL AND SPECIFIC TESTING AND INSPECTION REQUIREMENTS
- B. INSPECTION SHALL VERIFY ALL DRILLED HOLES SIZE AND DEPTH PRIOR TO INSTALLATION OF EPOXY AND ANCHOR ROD. SEE SPECIFICATIONS FOR QUANTITY OF TESTING.
- STEEL (IBC SECTION 1705.2):
  - A. INSPECTION DURING FÁBRICATION IS NOT REQUIRED IF THE FABRICATOR IS REGISTERED AND APPROVED TO PERFORM SUCH WORK WITHOUT INSPECTION. SPECIAL INSPECTION OF FIELD WELDS AS REQUIRED BY IBC SECTION 1704
- MASONRY (IBC SECTION 1705.4):
- A. REFER TO SPECIFICATION SECTION 04 0000 FOR ADDITIONAL AND SPECIFIC TESTING AND INSPECTION REQUIREMENTS.
- B. SPECIAL INSPECTION OF MASONRY IS NOT REQUIRED.

### MOLZENCORBIN

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NOTICE OF EXTENDED PAYMENT PROVISION. HIS CONTRACT ALLOWS THE OWNER TO MAK AYMENT WITHIN 45 DAYS AFTER SUBMISSIO OF AN UNDISPUTED REQUEST FOR PAYMEN

NUMERIC SCALE CONFIRMATION DRAWINGS ARE DEPICTED AT INTENDED NUMERIC SCALES IF THIS BAR EQUALS ONE INCH



STATION ADDITION FE COUNTY, NEW MEXIC SANTA F CHIMAYO, ] FIRE CHIMAYO

MEXIC

NOTES

GENERAL STRUCTURAL

17 of 41

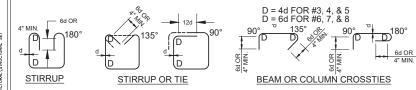
### TABLE A - REINFORCEMENT TENSION LAPS, EMBEDMENT AND HOOK LENGTHS fy = 60000 psi f'c = 3000 psi 2 3 EMBEDMENT AND CLASS CLASS B LAP (IN) CLEAR SPACING A LAP (IN) (5)(6)(7) (6)(8) (IN) 4 TOP BAR (10) OTHER BARS TOP BAR (10) OTHER BARS (2) (12) **(£)** (12) 2d 3d 5d S>3d S>5D S>3d 3 3/4 1 1/8 | 1 7/8 | 16 | 16 | 16 | 13 | 13 | 13 | 21 | 21 | 21 | 16 | 16 | 16 | 9 1 1/2 | 2 1/2 | 22 | 22 | 22 | 17 | 17 | 17 | 28 | 28 | 28 | 22 | 22 | 22 | 1 1 7/8 | 3 1/8 | 27 | 27 | 21 | 21 | 21 | 35 | 35 | 35 | 27 | 27 | 27 1 1/4 1 1/2 2 1/4 | 3 3/4 | 35 | 32 | 32 | 27 | 25 | 25 | 46 | 42 | 42 | 35 | 32 | 32 | 1 3/4 2 5/8 4 3/8 48 38 38 37 29 29 63 49 49 48 38 38 20 5 63 45 43 49 35 33 82 59 56 63 45 43 22 9 2.256 3 3/8 5 5/8 80 57 48 62 44 37 104 74 63 80 57 48 25 10 2.54 3.81 6.35 102 73 58 78 56 45 132 94 76 102 73 58 28 11 2.82 4.23 7.05 125 89 71 96 69 55 162 116 93 125 89 71 31

### O NOTES FOR TABLE A

- LENGTHS SHOWN CONFORM WITH NON SEISMIC PROVISIONS OF ACI 318 FOR UNCOATED BARS NOT ENCLOSED BY CLOSELY SPACED SPIRALS OR TIES. DEVELOPMENT OF REINFORCEMENT NOT COVERED BY THE TABLE SHALL CONFORM WITH ACI 318.
- MULTIPLY LENGTHS SHOWN BY 0.87 FOR 4000 PSI. CONCRETE, BUT LENGTH OF LAP SHALL NOT BE LESS THAN 12 INCH
- MULTIPLY LENGTHS SHOWN BY 1.3 FOR LIGHTWEIGHT AGGREGATE CONCRETE.
- BAR CLEAR SPACING IS THE CENTER TO CENTER BAR SPACING MINUS TWO BAR DIAMETERS WHEN ALL BARS ARE LAPPED AT THE SAME LOCATION. WHEN BAR LAPS ARE STAGGERED, AND LAP HALF THE BARS ARE LAPPED AT THE SAME LOCATION, THE BAR CLEAR SPACING IS TWICE THE CENTER TO CENTER BAR SPACING MINUS TWO BAR DIAMETERS. WHEN ALL BARS ARE EMBEDDED AT THE SAME LOCATION, THE BAR CLEAR SPACING IS THE CENTER TO CENTER BAR SPACING MINUS ONE BAR DIAMETER.
- 5. CLASS A LAP LENGTHS APPLY ONLY WHERE NOTED ON THE DRAWINGS.
- LAP AND EMBEDMENT LENGTHS SHOWN APPLY WHEN MINIMUM CONCRETE COVER OVER BARS CONFORMS WITH VALUES GIVEN IN THE TABLE FOR "CONCRETE COVER". THESE COVER VALUES CONFIRM WITH ACI 318.
- CLASS A LAP AND EMBEDMENT LENGTH HAVE SAME VALUE.
- CLASS B LAP LENGTHS APPLY FOR ALL SPLICES UNLESS NOTED OTHERWISE.
- HOOK LENGTH GIVEN IS THE STRAIGHT LINE DISTANCE FROM THE LOCATION OF MAXIMUM STRESS IN THE BAR TO THE OUTSIDE END OF THE HOOK. MULTIPLY LENGTHS GIVEN BY 0.7 FOR HOOKS WITH SIDE COVER NORMAL TO THE HOOK NOT LESS THAN 2-1/2 INCH AND FOR 90 DEGREE HOOKS COVER ON BAR EXTENSION BEYOND HOOK NOT LESS THAN 2 INCH.
- 10. TOP BARS ARE HORIZONTAL REINFORCEMENT PLACED SO THAT MORE THAN 12 INCHES OF CONCRETE IS CAST BELOW THE REINFORCEMENT.
- 11. MULTIPLY LAP AND EMBEDMENT LENGTHS GIVEN BY 2.0 FOR BARS WITH CLEAR SPACING OF TWO BAR DIAMETERS OR LESS OR CONCRETE COVER OF ONE BAR DIAMETER OR LESS.
- 12. MINIMUM CONCRETE COVER FROM FACE OF MEMBER TO EDGE BAR SHALL NOT BE LESS THAN TWO AND ONE HALF BAR DIAMETERS.



ALL REINFORCING EXCEPT COLUMN TIES AND BEAM STIRRUPS



BEAM STIRRUPS AND COLUMN TIES d = BAR DIAMETER, D = BEND DIAMETER

REBAR TYPICAL BEND DETAILS

CAST-IN-PLACE (PRE AUTHORIZED) [2] (SUBMITTAL TYPE REQUIRED) [3] THREADED ADHESIVE ROI T STANDARD HEADED ROD ANCHOR TYPE J-BOLT ANCHOR BOLT ANCHOR ANCHOR 4 12x DIA. MIN. EMBED NO PER PLAN PĖR ≺TACK 7 1/2" MFR **NOT ALLOWED** AT P-T SLAB 1/4" MIN FOR WOOD LIMITS 3/4"Ø MAX 5/8"Ø THRU 2 1/2"Ø 5/8"Ø THRU 1"Ø ANCHOR BOLT MATERIAL - A325 OR F1554 GRADE 36 MIN.

DIA = ANCHOR BOLT DIAMETER (NOMINAL)

TYPICAL ANCHOR BOLT SCHEDULE

INSTALLATION

### NOTES:

DRILL-IN-OPTIONS

- CONTRACTOR SHALL DETERMINE THE REQUIRED THREAD PROJECTION SUITABLE FOR THE THICKNESS OF MATERIAL BEING FASTENED PLUS GROUT ALLOWANCE, IF ANY, AND CONSTRUCTION TOLERANCES, UNO.
- CONTRACTOR MAY SELECT APPROPRIATE CAST-IN-PLACE ANCHOR BOLT OPTION WITHOUT SUBMITTAL
- DRILL-IN OPTIONS ARE NOT APPROPRIATE AT ALL CONDITIONS. IF DRILL-IN METHOD IS PREFERRED. SUBMIT MANUFACTURER'S INFORMATION, ALLOWABLE LOAD VS. EMBEDMENT DATA AND LOCATIONS OF WHERE SUBSTITUTIONS ARE REQUESTED. ENGINEER WILL DETERMINE IF SUBSTITUTION IS APPROPRIATE FOR LOCATION
- 4. EMBEDMENT OF DRILL-IN ANCHORS SHALL BE PER ENGINEER'S SUBMITTAL REVIEW COMMENTS. EMBEDMENT SHALL BE (9) NINE TIMES THE NOMINAL ANCHOR DIAMETER LINO
- 5. AT PRESSURE TREATED SILLS, PROVIDE HOT DIPPED GALVANIZED OR STAINLESS STEEL

Scale: N.T.S

**ANCHOR DETAILS** 

MOLZENCORBIN

Albuquerque. New Mexico 87106 505 242 5700 office 505 242 0673 fax MolzenCorbin.com

NOTICE OF EXTENDED PAYMENT PROVISION; HIS CONTRACT ALLOWS THE OWNER TO MAKE PAYMENT WITHIN 45 DAYS AFTER SUBMISSIO OF AN UNDISPUTED REQUEST FOR PAYMEN

NUMERIC SCALE CONFIRMATION DRAWINGS ARE DEPICTED AT INTENDED NUMERIC SCALES IF THIS BAR EQUALS ONE INCH



CHIMAYO FIRE STATION ADDITION SANTA FE COUNTY CHIMAYO, NEW MEXICO

DETAILS

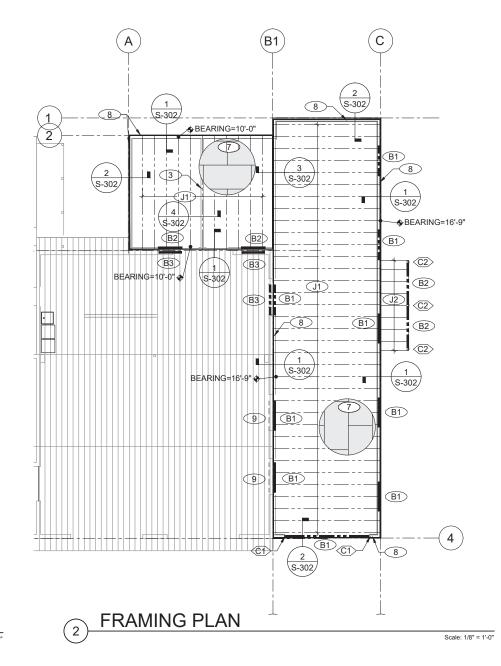
NOTES AND

STRUCTURAL

S - 003

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### (B1 T.O.W = 2'-0" S-301 ^2 S-301 6 S-301 S-301 S-301 S-301 0'-3' (3) 6 ◆F.F. = 0°-0" 1'-0" S-301 S-301, S-301 -18'-0"· FOUNDATION PLAN



JOIST SCHEDULE									
MARK	ARK SIZE TYPE SPACING NOTES								
J1	11 7/8"	TJI/230	24" O.C.	SEE DETAILS S302					
J2)	2x8	WOOD	24" O.C.	SEE DETAILS S302					

	BEAM SCHEDULE									
MARK	TYPE	SIZE	NOTES							
B1)	WOOD	(2)~2x12	SEE S-001,302,501							
B2)	WOOD	(2)~2x8	SEE S-001,302,501							
<b>B3</b>	STEEL	(2)~L 4X4X1/4"	SEE DETAIL 3/S-502							

	COLUMN SCHEDULE									
MARK	TYPE	SIZE	NOTES							
<b>€</b> 1>	BUILT-UP	(3) - 2x6	SEE DETAILS S501							
©2>	STEEL	4 x 4 x 3/16"	SEE DETAILS S501							

### **General Notes**

- A. OVER-EXCAVATION OF SOIL REMOVED BELOW FOOTINGS SHALL BE REPLACED AND COMPACTED IN LAYERS TO 95% OF MODIFIED PROCTOR DENSITY. SEE 8/S-301
- B. INTERIOR CONCRETE SLABS ON GRADE, UNLESS OTHERWISE NOTED, SHALL BE REINFORCED WITH WELDED WIRE FABRIC MATS AS FOLLOWS:
  - 4" SLAB 6 x 6 W1.4 x W1.4 6" SLAB - 6 x 6 W2.1 x W2.1
- C. ELECTRIC CONDUIT AND OTHER PIPES EMBEDDED IN THE CONCRETE FLOOR SHALL BE PLACED IN ACCORDANCE WITH THE REQUIREMENTS OF ACI 318, PARAGRAPH 6.3.
- D. LOCATE ALL SLEEVES, DRAINS, OPENINGS, EMBEDDED ITEMS, ETC. THAT ARE INDICATED ON THE DRAWINGS. IT IS THE CONTRACTOR'S RESPONSIBILITY TO ENSURE THAT ALL SUCH ITEMS ARE CORRECTLY POSITIONED & INSTALLED PRIOR TO PLACEMENT OF CONCRETE.
- F. SEE SHEET S-001 FOR ADDITIONAL NOTES AND LEGEND.
- G. CONTRACTOR TO COORDINATE ALL BUILDING DIMENSIONS WITH ARCHITECTURAL DRAWING PRIOR TO FORMING.
- CONTRACTOR TO COORDINATE ALL ROOF/FLOOR PENETRATIONS WITH MECHANICAL, ELECTRICAL AND ARCHITECTURAL DRAWINGS
- I. PARAPET HEIGHTS SEE ARCHITECTURAL DRAWINGS.
- J. SEE SHEET S-501 FOR STANDARD STRUCTURAL FRAMING SECTIONS

### Foundation Keyed Notes

- OUTLINE OF CONCRETE FOUNDATION & FOOTING BELOW GRADE. SEE FOUNDATION PLAN & DETAILS FOR INFORMATION.
- SAWN CONTROL JOINT. C.J. SHALL BE A MAXIMUM 12'-0" O.C. EACH WAY. SEE PLAN FOR LAYOUT AND DETAIL 5/S-301.
- INTERIOR NON-LOADBEARING FRAMED WALLS WILL BE ANCHORED TO SLAB ON GRADE WITH 1/2" Ø A307 ANCHOR BOLTS @ 72" O.C. OR APPROVED EQUAL SEE SHEET 3/S-003. SEE ARCH. DRAWINGS FOR INTERIOR WALL LOCATIONS AND LAYOUT.
- 4. 4" SLAB ON GRADE SEE ARCH.
- 5. 6" SLAB ON GRADE SEE NOTES AND DETAILS.
- 6. NOTCH TOP OF STEM WALL AT GARAGE DOORS TO MATCH SLOPED GARAGE SLAB.

### Framing Keyed Notes:

- ROOF SHEATHING SHALL BE 1/2", STRUCTURAL I PANELS (EXPOSURE 1, SPAN RATING 32/16), SEE 2/S-501
- 8. 2x6 WOOD STUDS @ 24" O.C. WALL SHEATHING SHALL BE 1/2" STRUCTURAL I PANELS (EXPOSURE 1), SEE 1/S-501 FOR
- 9. MASONRY WALL BELOW THE WIDTH OF THE EXISTING WINDOW OPENINGS TO BE SAW CUT AND REMOVED TO MAKE NEW WALL OPENINGS PER ARCHITECTURAL DRAWINGS.

### Legend

CONTROL JOINT @ 12'-0" O.C.E.W. MAXIMUM **GRID LINE** ====== EDGE OF THICKEND SLAB

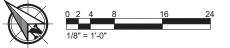
EDGE OF STEM WALL

EDGE OF TURNDOWN SLAB

BEAMS - SEE SCHEDULE

— - - — JOIST LINE

RIM BOARD - SEE S302



### MOLZENCORBIN

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<u>NOTICE OF EXTENDED PAYMENT PROVISION.</u> HIS CONTRACT ALLOWS THE OWNER TO MAK PAYMENT WITHIN 45 DAYS AFTER SUBMISSION OF AN UNDISPUTED REQUEST FOR PAYMEN

NUMERIC SCALE CONFIRMATION DRAWINGS ARE DEPICTED AT INTENDED NUMERIC SCALES IF THIS BAR EQUALS ONE INCH

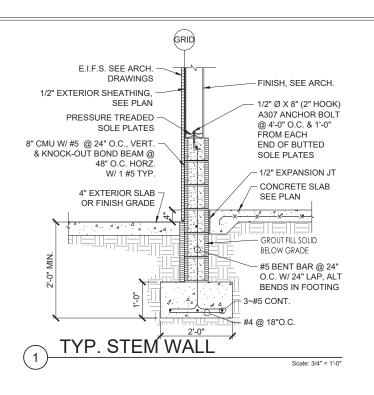


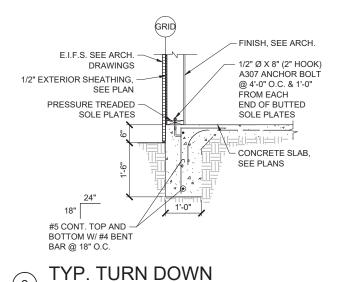
FOUNDATION PLAN AND FRAMING PLAN

CHIMAYO FIRE STATION ADDITION SANTA FE COUNTY CHIMAYO, NEW MEXICO

S-101

19 of 41





1/4" R TOOLED JT -

(WHEN FORMED)

1/8"±1/16" UNSEALED

TYP. TURN DOWN

1"x2" KEY MIN OR APPROVED

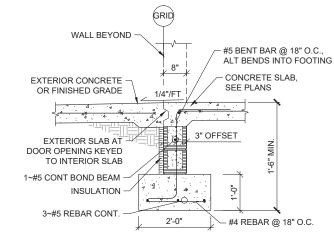
PREFORMED JOINT

FILL W/ ELASTMERIC CAULK

Scale: 3/4" = 1'-0"

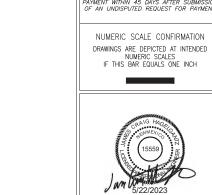
SAWED OR

FORMED JOINT



THICKENED SLAB AT DOOR

Scale: 3/4"=1'-0'



MOLZENCORBIN

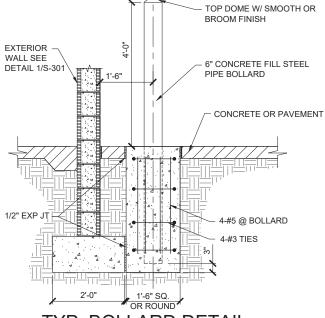
Albuquerque. New Mexico 87106

505 242 5700 office 505 242 0673 fax

MolzenCorbin.com

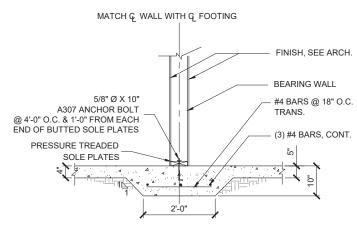
NOTICE OF EXTENDED PAYMENT PROVISION. HIS CONTRACT ALLOWS THE OWNER TO MAK

TOP DOME W/ SMOOTH OR **BROOM FINISH EXTERIOR** WALL SEE 6" CONCRETE FILL STEEL DETAIL 1/S-301 PIPE BOLLARD CONCRETE OR PAVEMENT 1/2" EXP JT 4-#5 @ BOLLARD

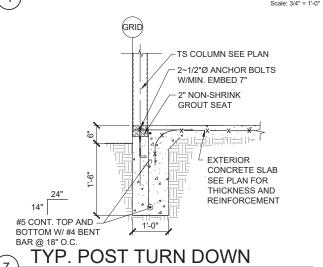


TYP. BOLLARD DETAIL Scale: 3/4"=1'-0" SEE FOUNDATION DETAILS FOR STEM WALLS AND THICKENED SLABS INSULATION -SEE S-101 & S-001 NOTE #2 UNDER FOUNDATION NOTES FINISH GRADE SCARIFIED SÖIL - ENGINEERED FILL PER GEO-TECHNICAL REPORT SCARIFIED SOIL

**EXCAVATION/FILL DETAIL** 



THICKENED SLAB WITH STEP



CONCRETE CONTROL JOINT DETAIL GRID FINISH, SEE ARCH. EXTERIOR WALL OF EXISTING BUILDING SEE PLAN 1/2" Ø X 8" (2" HOOK) A307 ANCHOR BOLT 1/2" EXTERIOR SHEATHING, @ 4'-0" O.C. & 1'-0" SEE PLAN FROM EACH PRESSURE TREADED END OF BUTTED SOLE PLATES SOLE PLATES - CONCRETE SLAB SEE PLANS 12" #5 CONT. TOP AND -BOTTOM W/ #4 BENT BAR @ 18" O.C.

3'-0" MIN.

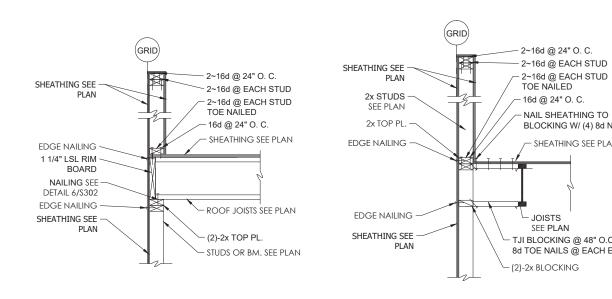
S-301

3'-0" MIN.

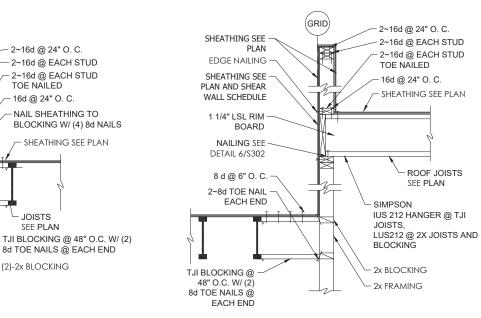
20 of 41

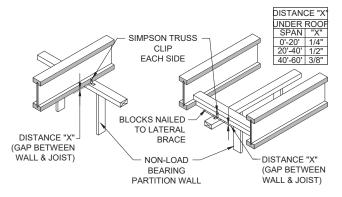
CHIMAYO FIRE STATION ADDITION SANTA FE COUNTY CHIMAYO, NEW MEXICO

FOUNDATION DETAILS



Scale: 3/4" = 1'-0"





LATERAL SUPPORT

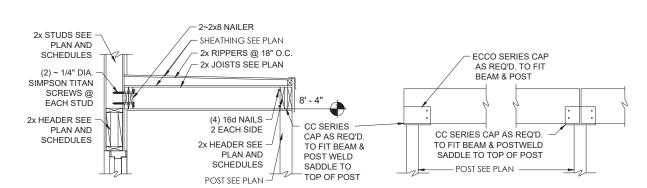
FRAMING DETAIL

FRAMING DETAIL

Scale: 3/4" = 1'-0"

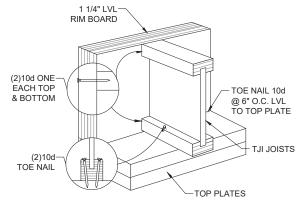
FRAMING DETAIL Scale: 3/4" = 1'-0"

Scale: 3/4" = 1'-0"



PORTAL FRAMING

Scale: 3/4" = 1'-0'



ROOF JOISTS

SEE PLAN

TJI BEARING AND NAILING

CHIMAYO FIRE STATION ADDITION SANTA FE COUNTY CHIMAYO, NEW MEXICO FRAMING DETAILS

MOLZENCORBIN

Albuquerque, New Mexico 87106 505 242 5700 office 505 242 0673 fax

MolzenCorbin.com

NOTICE OF EXTENDED PAYMENT PROVISION: HIS CONTRACT ALLOWS THE OWNER TO MAKE

PAYMENT WITHIN 45 DAYS AFTER SUBMISSIO OF AN UNDISPUTED REQUEST FOR PAYMEN

NUMERIC SCALE CONFIRMATION

DRAWINGS ARE DEPICTED AT INTENDED NUMERIC SCALES

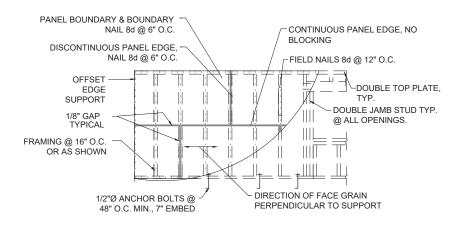
IF THIS BAR EQUALS ONE INCH

S-302

21 of 41

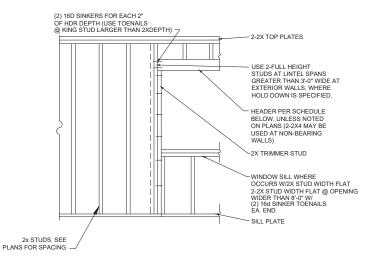
### NOTES:

- 1. STAGGER JOINTS AS SHOWN.
- 2. MIN SIZE OF SHEET SHALL BE 4'-0"x4'-0" EXCEPT AT ENDS.
- 3. NAILS SHALL BE DRIVEN TIGHT BUT SHALL NOT FRACTURE SURFACE OF SHEATHING.
- TOLERANCE ON NAILING; THE AVERAGE NAIL SPACING OVER ANY 4'-0" LENGTH SHALL BE AT LEAST THAT NOTED.



NOTE: EXTERIOR WALLS SHALL HAVE STRUCTURAL GRADE I SHEATHING. (OSB/PLYWOOD) CONTINUOUS.

# NOTES: 1. STAGGER JOINTS AS SHOWN. 2. MIN SIZE OF SHEET SHALL BE 4-0"x4-0" EXCEPT AT ENDS. 3. NAILS SHALL BE AT LIGHT BUT SHALL BE AT LIGHT BUT SHALL NOT FRACTURE SURFACE OF SHEATHING. 4. TOLERANCE ON NAILING; THE AVERAGE NAIL SPACING OVER ANY 4-0" LENGTH SHALL BE AT LEAST THAT NOTED. BLOCK ALL UNSUPPORTED SHEATHING EDGES WI 2X4 FLAT BLOCKS WISHNESON "2X CLUPS EA END WHERE BLOCKING SPECIFICALLY CALLED FOR ON PLAN BLOCK ALL UNSUPPORTED SHEATH SHALL BE AT LEAST THAT NOTED. PANEL BOUNDARY & BOUNDARY & BOUNDARY & BOUNDARY NAILING (B.N.) 88 (@ 6" O. C. CONTINUOUS PANEL EDGE, NO BLOCKING FIELD NAILING 8 d @ 12" O.C. SHEATHING EDGES WI 2X4 FLAT BLOCKS WISHNESON "2" CLUPS EA END WHERE BLOCKING SPECIFICALLY CALLED FOR ON PLAN DIRECTION OF FACE GRAIN PERPENDICULAR TO SUPPORT



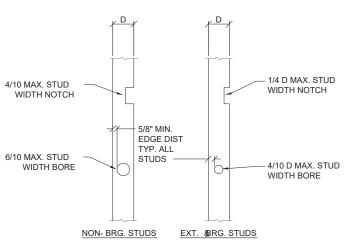
### NTERIOR SHEAR WALLS-NAILING DETAIL

Scale: N.T.S.

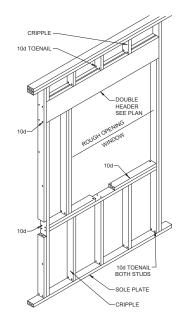
FLOOR/ROOF SHEATHING (NAILING)

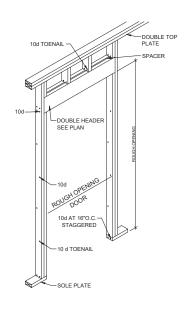
TYP. STUD WALL/WINDOW FRAMING

Scale: N.T.S.

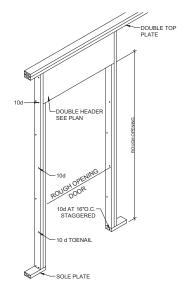


NOTCH OR BORE FRACTION OF STUD	2x4	2x6	2x8	NOTE:
1/4 D	7/8"	1 3/8"	1 3/4"	NOTCH AND BORE NOT TO OCCUR ON
4/10 D	1 3/8"	2 1/8"	3"	SAME STUD WITHIN
6/10 D	2"	3 1/4"	4 1/4"	4ft OF EACH OTHER





- FRAMING @ 24" O.C.



### NON -BEARING STUD WALL BELOW BEAM

TYPICAL FRAMING AT OPENINGS

Scale: 3/4"=1'-0"

-\IVI : 3/4"=1'-0"

S-501

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MolzenCorbin.com

<u>NOTICE OF EXTENDED PAYMENT PROVISION.</u> HIS CONTRACT ALLOWS THE OWNER TO MAK

PAYMENT WITHIN 45 DAYS AFTER SUBMISSION OF AN UNDISPUTED REQUEST FOR PAYMEN

NUMERIC SCALE CONFIRMATION

DRAWINGS ARE DEPICTED AT INTENDED NUMERIC SCALES

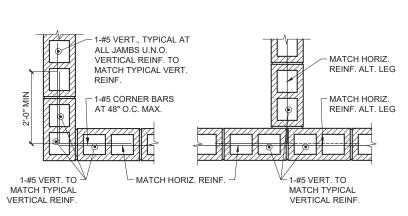
IF THIS BAR EQUALS ONE INCH

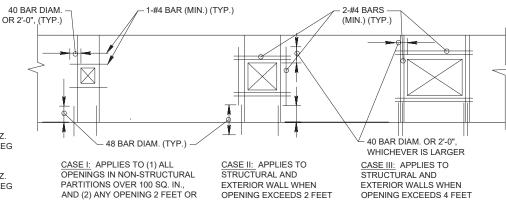
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CHIMAYO FIRE STATION ADDITION

SANTA FE COUNTY CHIMAYO, NEW MEXICO

TYPICAL FRAMING DETAILS





1. VERTICAL REINFORCEMENT OF 2 BARS, EACH BAR MAY BE PLACED IN A NOTES SEPARATE CELL.

BUT NOT MORE THAN 4

FEET IN EITHER DIRECTION.

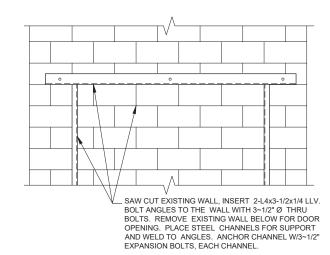
IN EITHER DIRECTION.

- VERTICAL BARS SHALL BE OF THE SAME SIZE, EXTENT, AND ANCHORAGE AS
- THE TYPICAL REINF. IN THAT WALL UNLESS OTHERWISE INDICATED. VERTICAL BARS CAN BE PART OF NORMAL REINF. IN THE WALL.
- REINFORCEMENT AT TOP OF OPENINGS SHALL BE NOT LESS THAN THAT
- REQUIRED BY THE LINTEL DESIGN.

LESS BOTH WAYS BUT OVER 100

SQ. IN. IN STRUCTURAL OR

EXTERIOR WALLS.



### REINFORCING AROUND WALL OPENINGS

### **CMU CORNER DETAIL**

SAME BAR SIZE

WALL REINFORCED

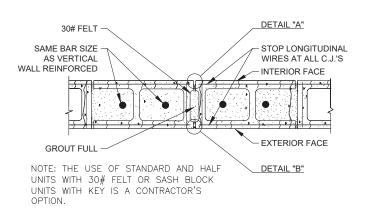
PLOT DATE: 5/18/2023 2:16 PM SAVE DATE: 5/18/2023 2:15 PM K:\PROJECTS\2018\18-017\STR

AS VERTICAL

MORTAR FULL

Scale: 1/2"=1'-0"

REINFORCING AROUND WALL OPENINGS



CMU CONTROL JOINT WITH

**GROUT KEY** 

DETAIL "A"

STOP LONGITUDINAL

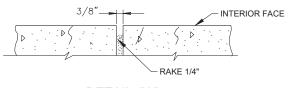
WIRES AT ALL C.J.'S

- INTERIOR FACE

- EXTERIOR FACE

DETAIL "B"

### FACE OF EXPOSED WALLS. DETAIL "A" CONTROL JOINT KEY SAME BAR SIZE AS VERTICAL WALL INTERIOR FACE REINFORCING OF CMU WALL DETAIL "B"



### **RAKE 3/4**' BACKER ROD EXTERIOR FACE -AND SEALANT DETAIL "B"

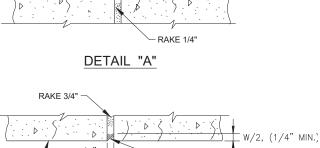
### CMU CONTROL JOINT (C.J.)

CMU CONTROL JOINT DETAIL

Scale: 3/4"=1'-0"

### RAKE JOINT 1/4" AT INTERIOR STOP LONGITUDINAL WIRES AT ALL C.J.'S

### CMU CONTROL JOINT WITH **RUBBER KEY**



23 of 41

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MOLZENCORBIN

Albuquerque. New Mexico 87106

NUMERIC SCALE CONFIRMATION DRAWINGS ARE DEPICTED AT INTENDED NUMERIC SCALES IF THIS BAR EQUALS ONE INCH

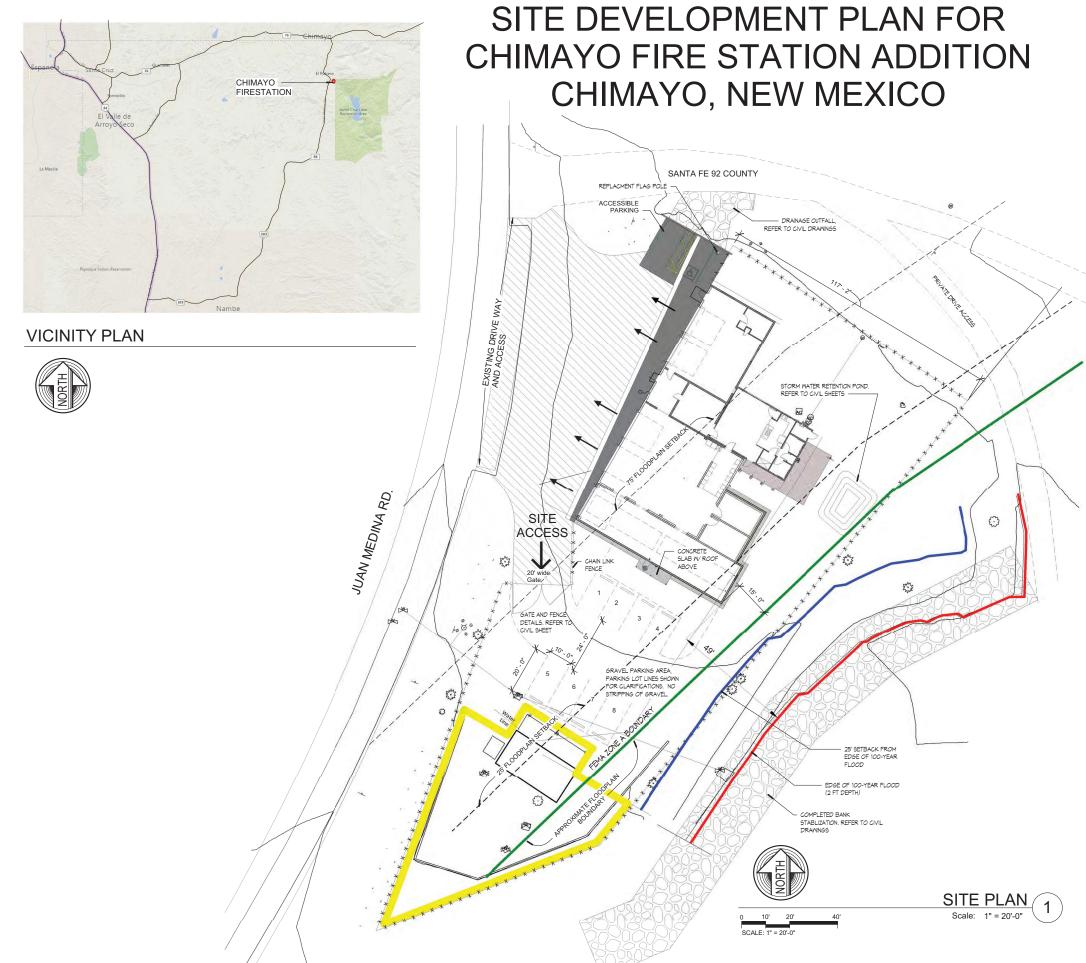


CHIMAYO FIRE STATION ADDITION

TYPICAL FRAMING DETAILS

SANTA FE COUNTY CHIMAYO, NEW MEXICO

S-502



**LEGEND** 

GREATER CHIMAYO MDWCA

EXISTING ASPHALT DRIVEWAY

MOLZENCORBIN

2701 Miles Road SE Albuquerque, New Mexico 87106 505 242 5700 office 505 242 0673 fax

NOTICE OF EXTENDED PAYMENT PROVISION: THIS CONTRACT ALLOWS THE OWNER TO MAKE PAYMENT WITHIN 45 DAYS AFTER SUBMISSION OF

NUMERIC SCALE CONFIRMATION

DRAWINGS ARE DEPICTED AT
INTENDED NUMERIC SCALES IF THIS
BAR EQUALS ONE INCH



UPC #: 1-054-119-455-462 / 000-000

226 JUAN MEDINA ROAD, CHIMAYO, NM T20N R9E S12 37.34 AC N.M.P.M. SANTA FE COUNTY, STATE OF NEW MEXICO LOT 4

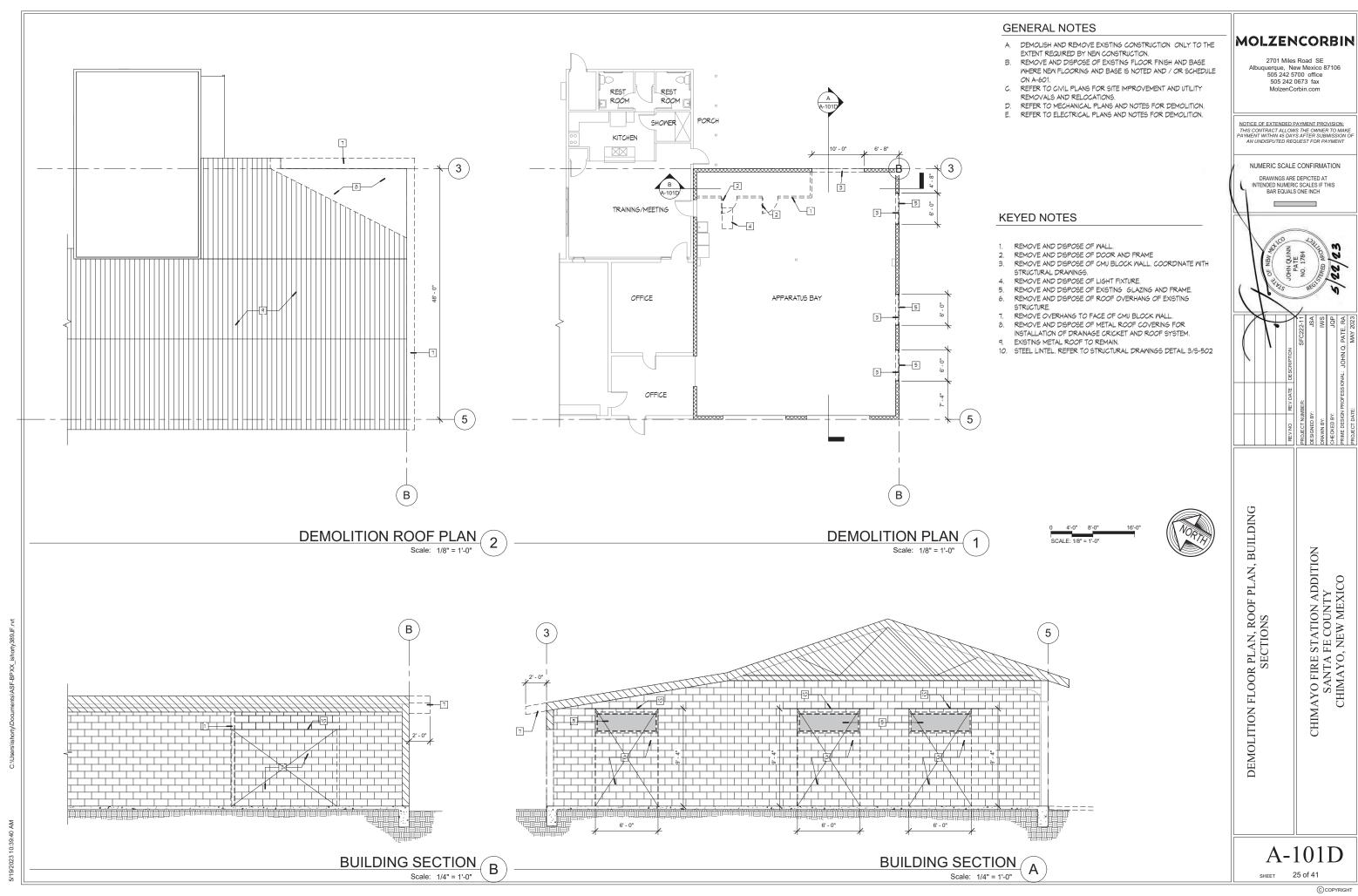
### GENERAL NOTES FOR SITE DEVELOPMENT PERMIT

- LANDSCAPE AND BUFFERING SEE SCREENING REPORT.
- 2. LIGHTING PER CODE AND NIGHT SKY PROTECTION ACT.
- 3. WATER, SEWER AND GAS UTILITIES PER
- LETTER FROM GREATER CHIMAYO (MDWCA).
   "READY, WILLING, AND BE ABLE TO PROVIDE SERVICE."
- TERRAIN MANAGEMENT PER CODE.
- 6. SOLID WASTE: USERS WILL CONTINUE TO HAUL REFUSE TO TRANFER STATION
- THE SITE IS WITHIN THE CHIMAYO DESIGN OVERLAY DISTRICT DESIGN WILL COMPLY.
- 8. NO SIGNAGE MODIFICATION.

SITE DEVELOPMENT PLAN
CHIMAYO FIRE STATION ADDITION
SANTA FE COUNTY
CHIMAYO, NEW MEXICO

A-001

ET 24 of 4



### **GENERAL NOTES**

- A. SEE SITE PLAN, CIVIL DRAWINGS CONCRETE FLAT WORK.
- B. STUD FRAMED WALL DIMENSIONS ARE FACE OF STUD, EXCEPTION ARE NOTED.
- C. CMU WALLS ARE TO DIMENSIONED TO FACE OF CMU.
- D. CLEAR (CLR) DIMENSIONS ARE TO FACE OF FINISH.
- CENTERLINE DIMENSIONS (CL) ARE TO CENTER OF DOORS, GLAZED UNITS, FIXTURES, OR COLUMNS.
- VERTICAL DIMENSIONS NOTED AS A.F.F. (ABOVE FINISH FLOOR) ARE DISTANCES FROM THE TOP OF THE FINISHED INTERIOR SLAB AN NOT TAKE FLOOR COVERING MATERIALS INTO ACCOUNT.
- G. ELEVATION OF FINISHED INTERIOR SLAB IS NOTED ON THE GRAI
- REFER TO DOOR AND STOREFRONT SCHEDULES FOR OPENING
- REFER TO FINISH SCHEDULE FOR ROOM FINISHING TYPES ON SH A-601.

### **KEYED NOTES**

- 1. CMU BLOCK OPENING. REFER TO STRUCTURAL DRAWINGS FOR SUPPORT
- 2. STEEL BOLLARDS. REFER TO STRUCTURAL DRAWINGS FOR INSTALLATION, COORDINATE PLACEMENT WITH OH DOOR CLEARANCES.
- CONCRETE APRON INSTALLED PERIMETER OF BUILDING. SLOPE 1/4" PLF AWAY FROM BUILDING AS REQUIRED FOR DRAINAGE. DOWN SPOUT
- CONCRETE SLASH BLOCK
- ROOF BELOW
- 1 1/2" DIAMETER X 18" VERITCAL GRAB BAR, REFER TO SHEET G-002 FOR LOCATION.
- 60" DIAMETER ACCESSIBLE TURN AROUND.
- BOTTLE FILLER SINK FAUCET; CHICAGO 712-ABCP OR SIMILAR.
- REPAVE ENTRY. REFER TO CIVIL SHEETS. TRENCH DRAIN. REFER TO CIVIL SHEETS.
- CONCRETE SLAB. REFER TO CIVIL SHEETS.
- ASPHALT PAVING TO REMAIN.
- 14. FLAG POLE. CONFIRM AND VERIFY LOCATION WITH OWNER.

### LEGEND:

ROOM NAME

ROOM IDENTIFIER

DOOR OPENING IDENTIFIER



SECTION INDICATOR



DETAIL INDICATOR

\_\_\_1

KEYED NOTE INDICATOR



• 0'-0" ELEVATION MARKER

### WALL LEGEND



INTERIOR PARTITION 6" WOOD STUD FRAMING WITH TYPE 'X' GYPSUM BOARD ON EACH SIDE. REFER TO WALL SECTION AS PROVIDED.



EXTERIOR WALL 6" WOOD STUD FRAMING WITH BATT INSULATION. EXTERIOR GRADE SHEATHING BOARD ON THE EXTERIOR SIDE. INSULATION FINISH SYSTEM. REFER TO WALL SECTION AS PROVIDED.

MOLZENCORBIN

2701 Miles Road SE Albuquerque, New Mexico 87106 505 242 5700 office 505 242 0673 fax

NOTICE OF EXTENDED PAYMENT PROVISION THIS CONTRACT ALLOWS THE OWNER TO MAKE AYMENT WITHIN 45 DAYS AFTER SUBMISSION O AN UNDISPUTED REQUEST FOR PAYMENT

NUMERIC SCALE CONFIRMATION

DRAWINGS ARE DEPICTED AT INTENDED NUMERIC SCALES IF THIS BAR EQUALS ONE INCH



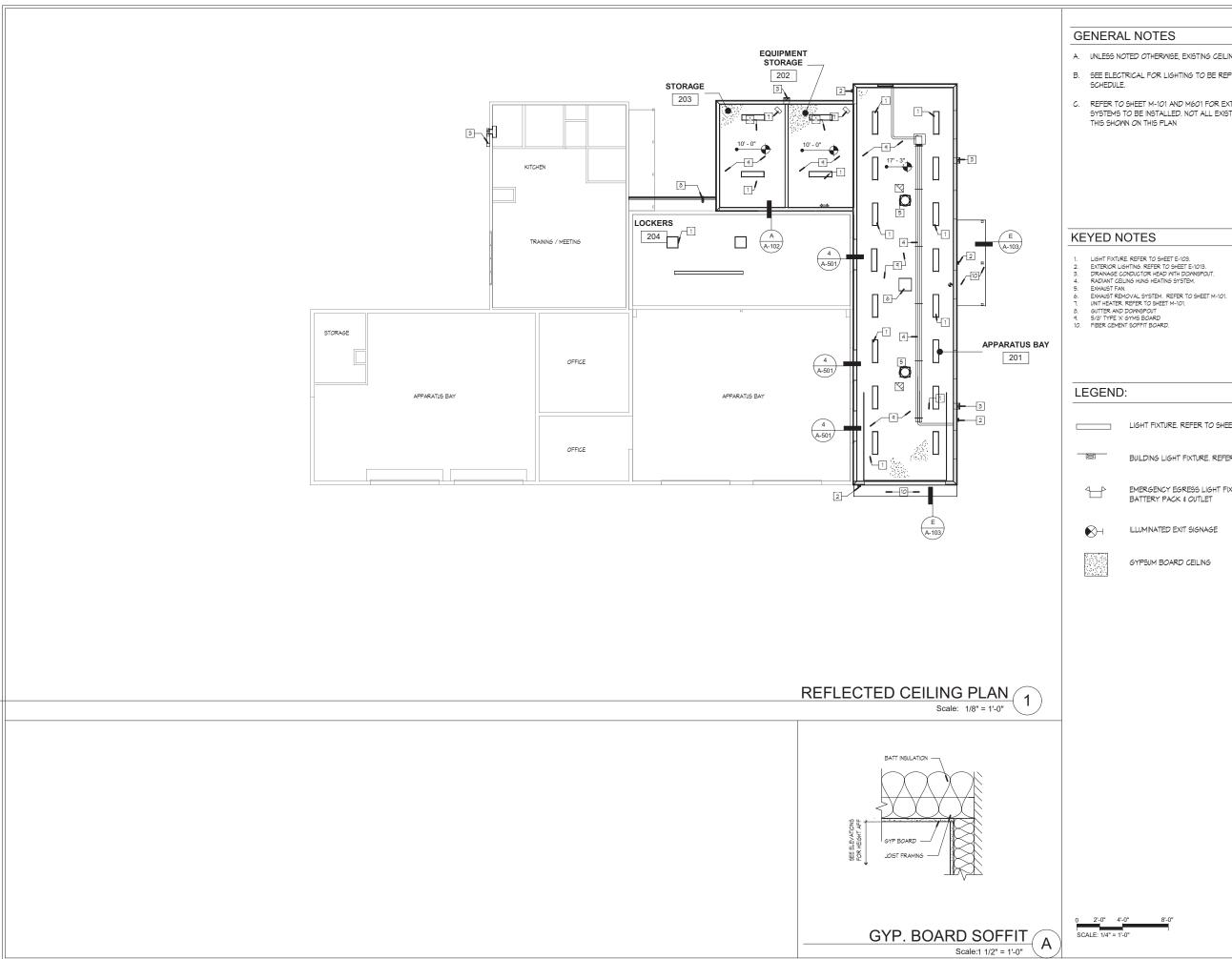
CHIMAYO FIRE STATION ADDITION SANTA FE COUNTY CHIMAYO, NEW MEXICO

FLOOR PLAN

A-101

SHEET

MEN / WOMEN RESTROOM PLAN / Scale: 1/4" = 1'-0"



### **GENERAL NOTES**

- A. UNLESS NOTED OTHERWISE, EXISTING CEILINGS TO REMAIN.
- B. SEE ELECTRICAL FOR LIGHTING TO BE REPLACED AND FIXTURE
- C. REFER TO SHEET M-101 AND M601 FOR EXTENT OF HEATING/ COOLING SYSTEMS TO BE INSTALLED. NOT ALL EXISTING TO REMAIN ARE ON THIS SHOWN ON THIS PLAN

### MOLZENCORBIN

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LIGHT FIXTURE. REFER TO SHEET E-105

BUILDING LIGHT FIXTURE. REFER TO SHEET E-105



EMERGENCY EGRESS LIGHT FIXTURE WITH BATTERY PACK & OUTLET

ILLUMINATED EXIT SIGNAGE

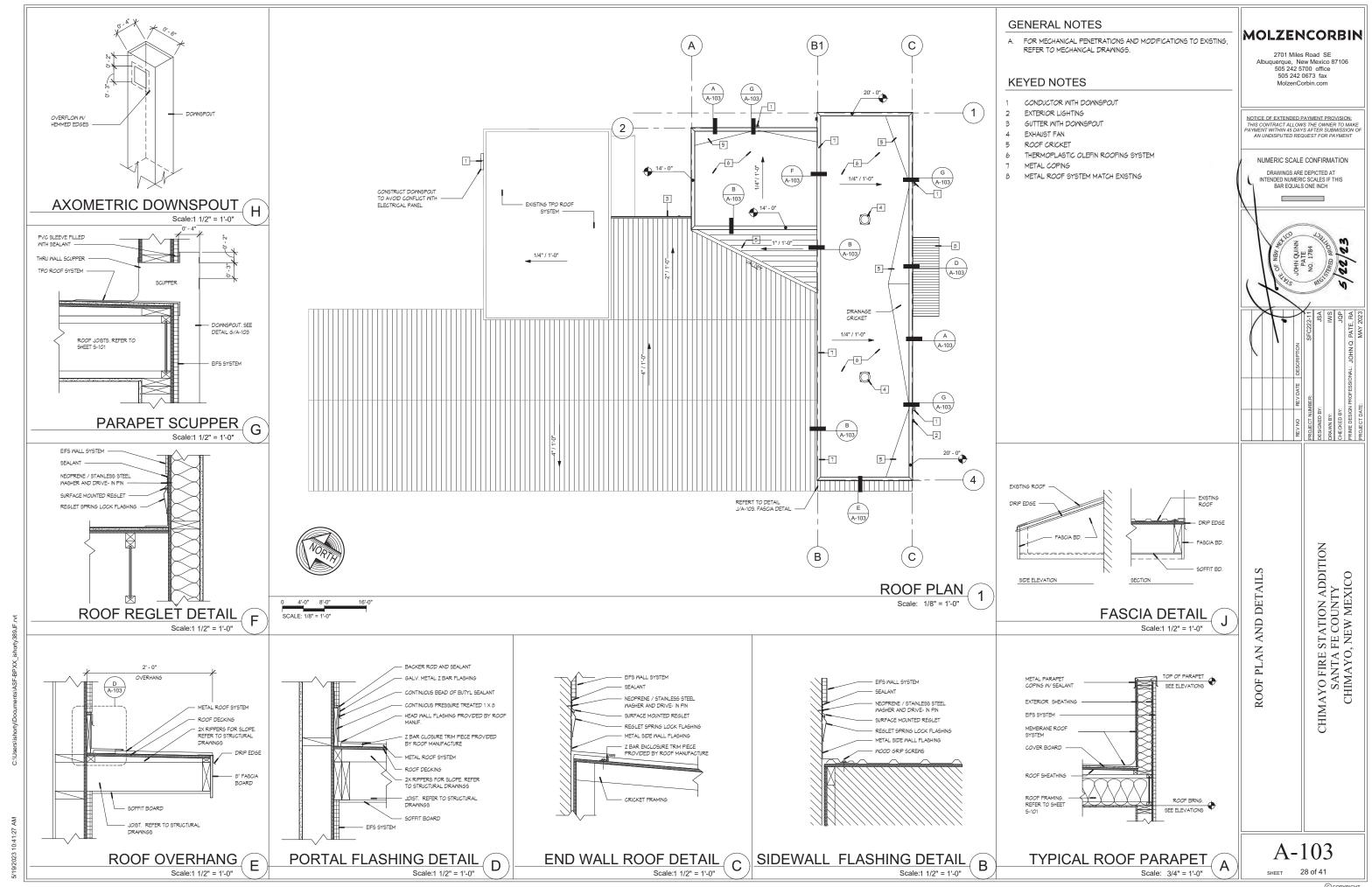


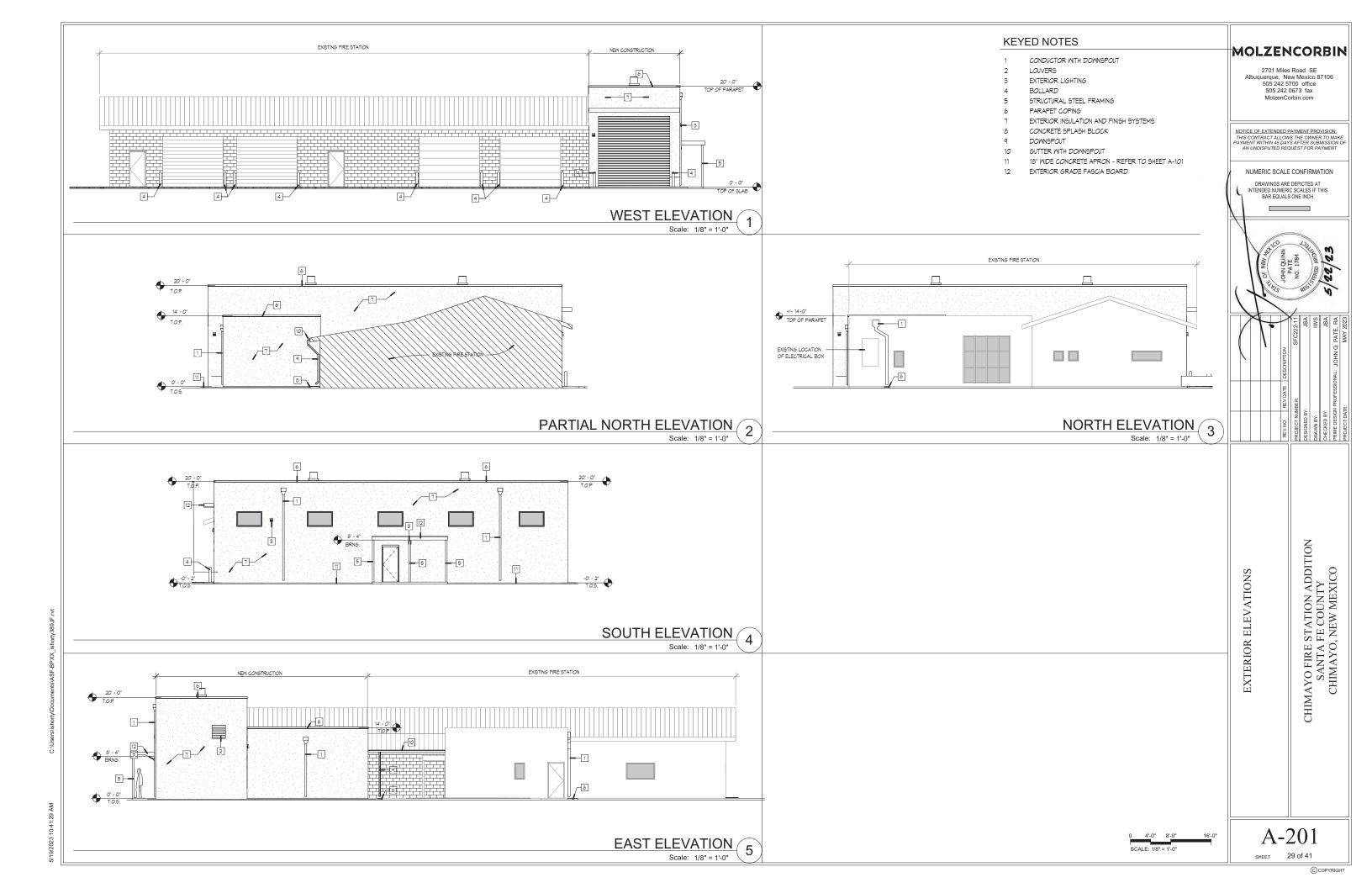
GYPSUM BOARD CEILING

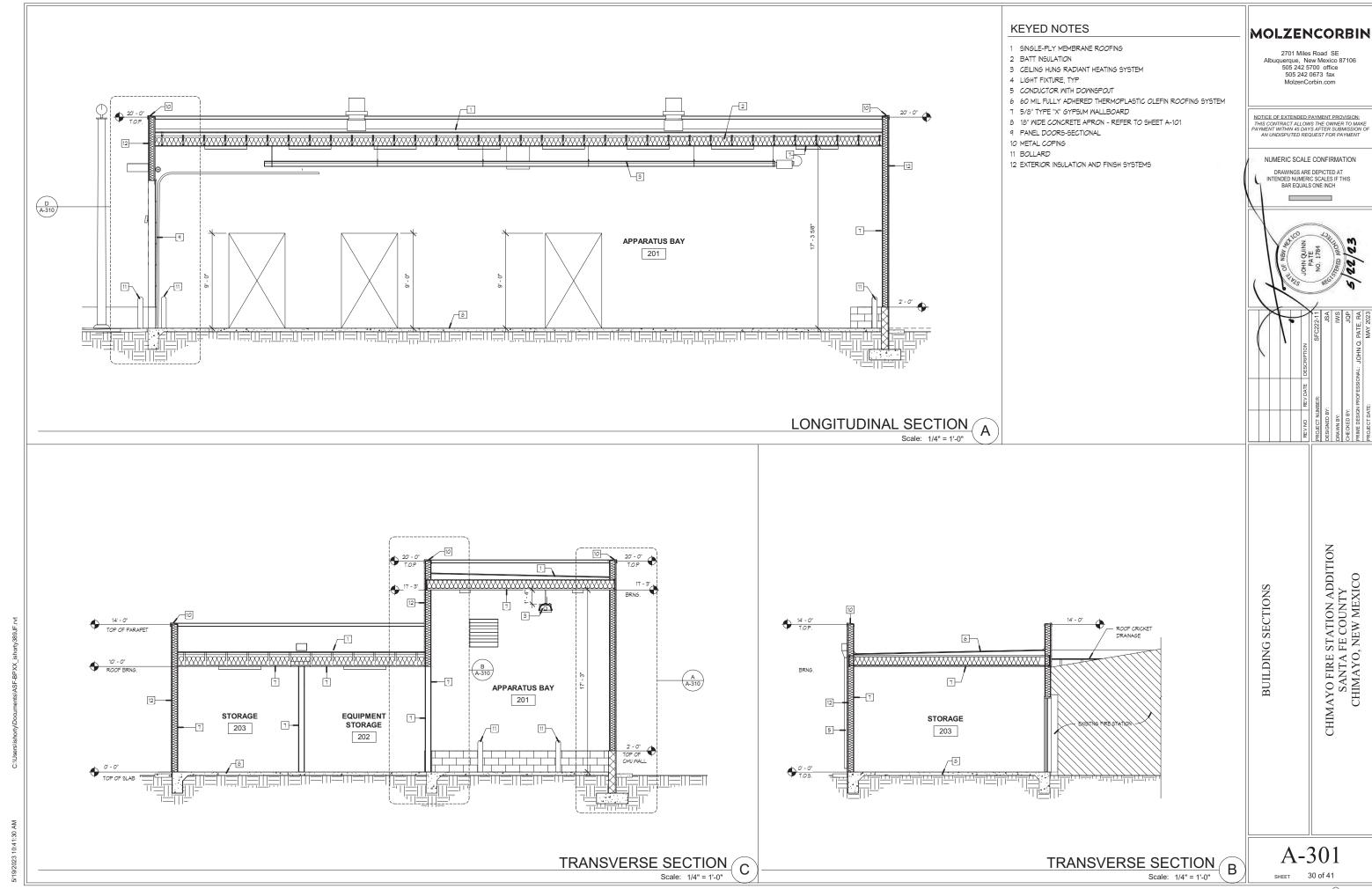
REFLECTED CEILING PLAN

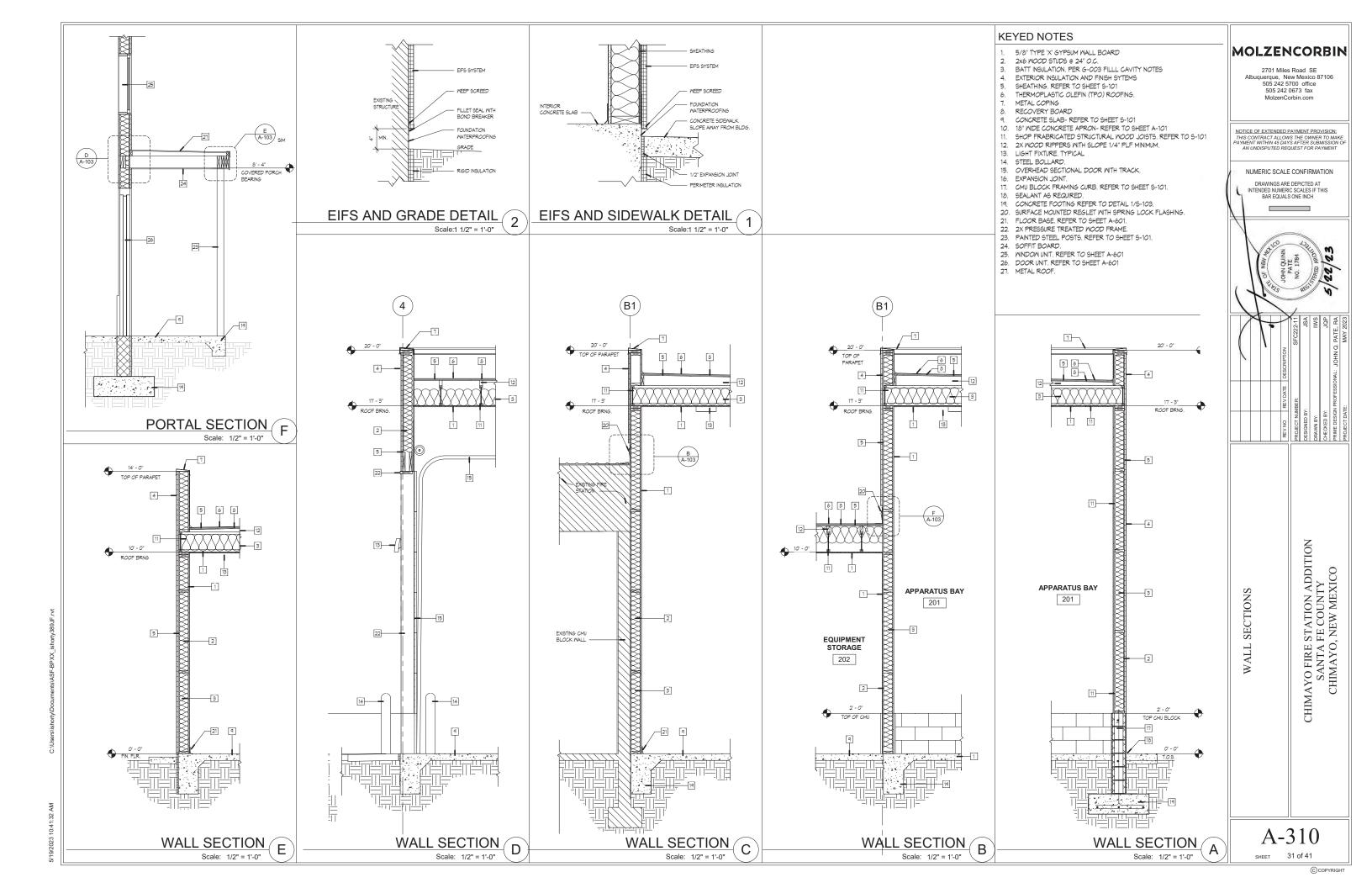
A-102 SHEET

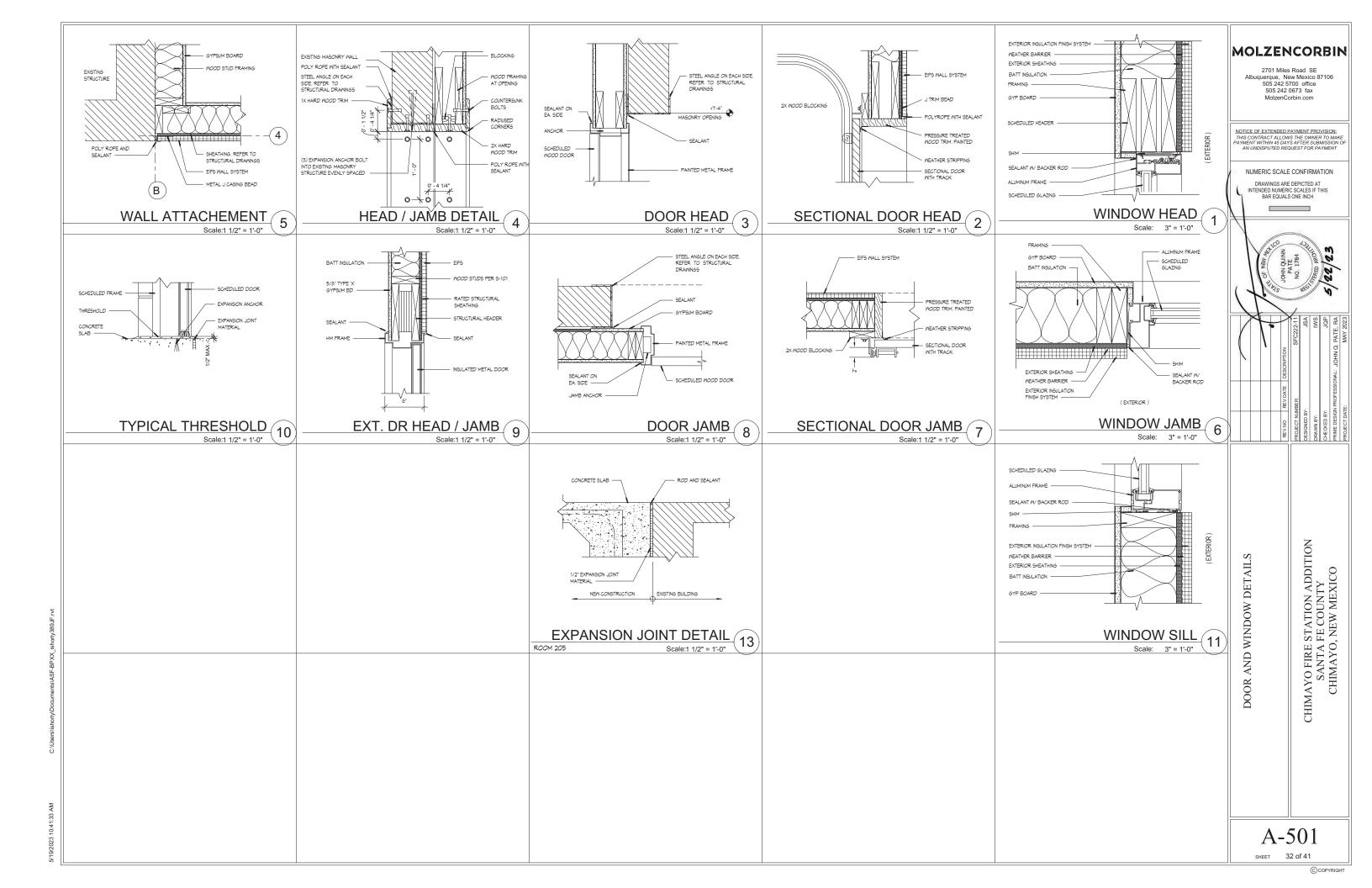
CHIMAYO FIRE STATION ADDITION SANTA FE COUNTY CHIMAYO, NEW MEXICO







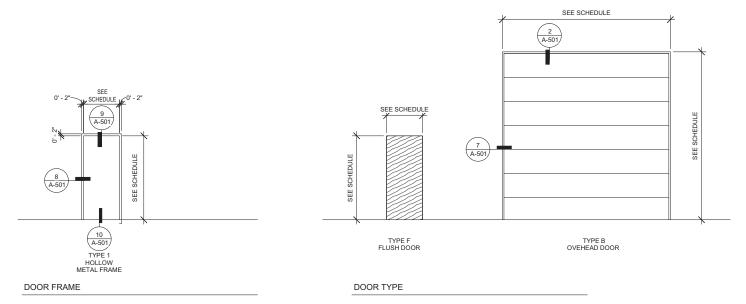


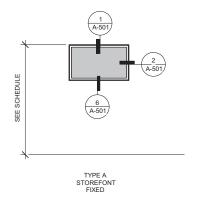


	DOOR SCHEDULE											
				Do	or			Fra	ame			
Mark	Type	Width	Height	Thickness	Material	Hardware	Type	Material	Jamb	Head	Comments	
		•	•	•						•		
201	F	3' - 0"	7' - 0"	0' - 1 3/4"	HM	REFER TO SPECIFICATIONS	TYPE 1	HM	9/A-501	9/A-501		
201A	G	14' - 2"	14' - 0"	0' - 1 3/8"	METAL PANEL	REFER TO SPECIFICATIONS		PRESSURE TREATED WOOD	7/A-501	2/A-501	SECTIONAL OVERHEAD DOOR. WOOD FRAME PAINTED	
202	F	3' - 6"	7' - 0"	0' - 1 3/4"	SOLID CORE	REFER TO SPECIFICATIONS	TYPE 1	HM	8/A-501	3/A-501		
203	F	3' - 6"	7' - 0"	0' - 1 3/4"	SOLID CORE	REFER TO SPECIFICATIONS	TYPE 1	HM	8/A-501	3/A-501		

	STOREFRONT SCHEDULE										
Type Mark		.O. Height	Family and Type	Material	Finish	Head	Jamb	Sill	Head Height	Comments	
А	5' - 0"	3' - 0"	Fixed: 60"x 36"	ALUMINUM	CLEAR ANODIZED	1/A-501	6/A-501	11/A-601	12' - 0"	STOREFRONT SYSTEM WITH INSULATED GLAZING	

Grand total: 5





WINDOW TYPE

					ROO	M SCHEDU	JLE
Room Number	Room Name	Floor Finish	Base Finish	Wall Finish	Ceiling Finish	Ceiling Height	Comments
201	APPARATUS BAY	CONCRETE SEALER	4" RUBBER BASE	PAINT	PAINT	17' - 3"	
202	EQUIPMENT STORAGE	CONCRETE SEALER	4" RUBBER BASE	PAINT	PAINT	10' - 0"	
203	STORAGE	CONCRETE SEALER	4" RUBBER BASE	PAINT	PAINT	10' - 0"	
204	LOCKERS	TOUCH UP AND REPAIR	4" RUBBER BASE	PAINT	TOUCH UP AND REPAIR		EXISTING CEILING IS SLOPED.

### MOLZENCORBIN

2701 Miles Road SE Albuquerque, New Mexico 87106 505 242 5700 office 505 242 0673 fax MolzenCorbin.com

NOTICE OF EXTENDED PAYMENT PROVISION: THIS CONTRACT ALLOWS THE OWNER TO MAKE PAYMENT WITHIN 45 DAYS AFTER SUBMISSION OI AN UNDISPUTED REQUEST FOR PAYMENT

NUMERIC SCALE CONFIRMATION

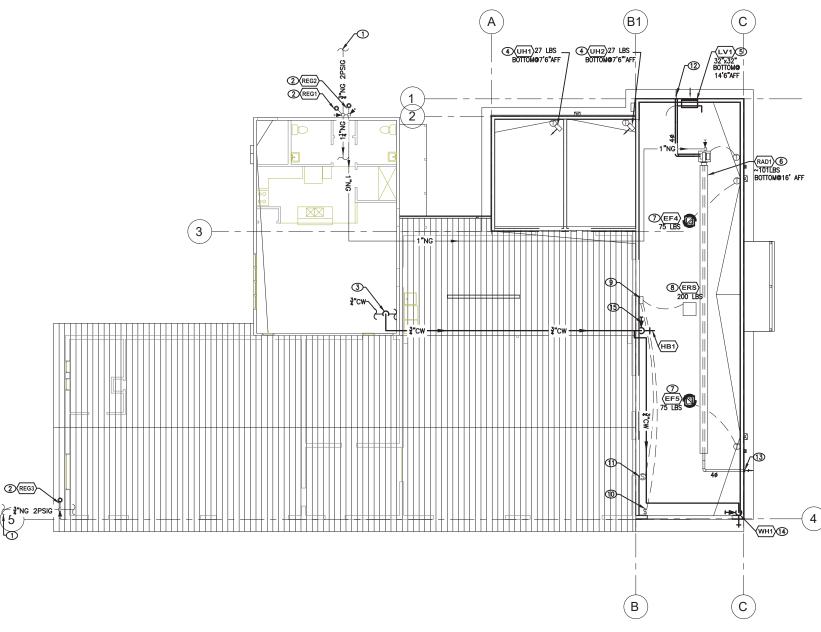
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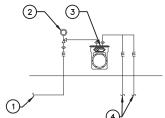
DOOR AND WINDOW SCHEDULE

CHIMAYO FIRE STATION ADDITION SANTA FE COUNTY CHIMAYO, NEW MEXICO

A-601 SHEET 33 of 41



MECHANICAL HVAC AND PLUMBING PLAN
SCALE: 1/8"=1'=0"



1) EXISTING 3" NATURAL GAS PIPING SERVICE TO REMAIN.

2 COORDINATE WITH LOCAL GAS UTILITY COMPANY INSTALLATION OF NEW NATURAL GAS REGULATOR AND CONFORM TO THEIR REQUIREMENTS. NEW REGULATOR SIZED BASED ON 20 PSIG INLET, 2 PSIG OUTLET, AND 525 CFH.

(3) EXISTING GAS METER TO REMAIN.

EXISTING \$" NG 2 PSIG GAS SERVICE TO BUILDING TO REMAIN.

A EXISTING GAS METER DETAIL SCALE - NONE

### KEYED NOTES O

- EXISTING NATURAL GAS PIPING TO EXISTING GAS METER LOCATED ON SITE. SEE DETAIL BELOW FOR NEW WORK REQUIREMENTS AT EXISTING GAS METER.
- PROVIDE AND INSTALL NATURAL GAS REGULATOR. SIZE
   AS INDICATED ON EQUIPMENT SCHEDULE.
- 3. PROVIDE AND INSTALL COLD WATER CONNECTION TO EXISTING COLD WATER. SIZE AS INDICATED ON PLANS.
- PROVIDE AND INSTALL UNIT HEATER. SIZE AS INDICATED ON EQUIPMENT SCHEDULE.
- PROVIDE AND INSTALL LOUVER WITH MOTORIZED DAMPER. ELECTRICAL CONTRACTOR TO INTERLOCK MOTORIZED DAMPER WITH EXHAUST FANS EF-4 AND EF-5.
- PROVIDE AND INSTALL RADIANT TUBE HEATER.
   THERMOSTAT FURNISHED WITH HEATER AND WIRED BY ELECTRICAL CONTRACTOR.
- PROVIDE AND INSTALL ROOF EXHAUST FAN. THERMOSTAT AND WIRING PROVIDED AND INSTALLED BY ELECTRICAL CONTRACTOR.
- PROVIDE AND INSTALL EXHAUST REMOVAL SYSTEM.
   120V POWER REQUIRED AT THIS LOCATION FURNISHED BY ELECTRICAL.
- CONTROL PANEL FURNISHED WITH EXHAUST REMOVAL SYSTEM. 120V POWER REQUIRED AT THIS LOCATION FURNISHED BY ELECTRICAL.
- DOOR SWITCH FURNISHED WITH EXHAUST REMOVAL SYSTEM. LOW VOLTAGE POWER REQUIRED FROM CONTROL PANEL. LOW VOLTAGE WIRING AND CONDUIT PROVIDED AND INSTALLED BY ELECTRICAL.
- 11. PHOTO EYE FURNISHED WITH EXHAUST REMOVAL SYSTEM. LOW YOLTAGE POWER REQUIRED FROM CONTROL PANEL. LOW YOLTAGE WIRING AND CONDUIT PROVIDED AND INSTALLED BY ELECTRICAL.
- 12. 4" COMBUSTION AIR INTAKE THRU WALL.
- 13. 4" VENT EXHAUST THRU WALL.
- 14. WALL HYDRANT AT 18" ABOVE FINISHED FLOOR.
- 15. BALL VALVE IN PIPING DROP. TYPICAL OF THIS SYMBOL.

### MOLZENCORBIN

2701 Miles Road SE Albuquerque, New Mexico 87106 505 242 5700 office 505 242 0673 fax MolzenCorbin.com

NOTICE OF EXTENDED PAYMENT PROVISION: HIS CONTRACT ALLOWS THE OWNER TO MAKE PAYMENT WITHIN 45 DAYS AFTER SUBMISSION OF AN UNDISPUTED PROVIST FOR PAYMENT

### NUMERIC SCALE CONFIRMATION

DRAWINGS ARE DEPICTED AT INTENDED NUMERIC SCALES IF THIS BAR EQUALS ONE INCH

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REV NO	REV DATE	REV DATE DESCRIPTION	
PROJECT NUMBER:	NUMBER:		SFC183-11
DESIGNED BY:	BY:		PMR
DRAWN BY:	.;.		PMR
CHECKED BY:	BY:		PMR
PRIME DE	PRIME DESIGN PROFESSIONAL:	ESSIONAL:	FULL NAME
PROJECT DATE:	DATE:		APRIL, 2022

## CHIMAYO FIRE STATION ADDITION SANTA FE COUNTY CHIMAYO, NEW MEXICO

MECHANICAL HVAC AND PLUMBING PLAN

M-101

34 of 41

### EXHAUST REMOVAL SYSTEM

ERS) EXHAUST REMOVAL SYSTEM: EXHAUST REMOVAL SYSTEM COMPLETE WITH CONTINENTAL CENTRIFUGAL BLOWER AND FAN HOUSING, ALL WELDED STEEL CABINET WITH GRAY POWDER COAT FINISH AND TWO HINGED DOORS. STAGE-1 PREFILTER: 3 PLY POLYESTER CONSTRUCTION. STAGE-2 MAIN FILTER OF HEPA DESIGN. GAS-PHASE EXTRACTOR. FILTER GAUGE, CONTROL PANEL AND ACTIVATION PACKAGE WITH PHOTO ELECTRIC EYES AND MAGNETIC DOOR SWITCHES.

AIR VAC-911 EXHAUST REMOVAL SYSTEM ---115V/1PH

AIR VAC-911 FILTER PACK (4 STAGE FILTER PACK)

AIR VAC-911 FILTER GAUGE

UL 508A CERTIFIED CONTROL PANEL - AVEC-6C/T2

ACTIVATION PACKAGE - PB030TK 200' PHOTO EYE

TRACK MOUNTED DOOR SWITCH

PRE FILTERS (12 PER BOX)

AIRVAC 911 SPECIFICATIONS

MODEL: AIRVAC 911 VERTICAL AIR FLOW DESIGN CEILING HUNG RECIRCULATING REMOVAL SYSTEM MANUFACTURED BY: AIR VACUUM CORPORATION

FILTRATION: 4 STAGE FILTER PACK. ALL FILTERS ARE INDUSTRY STANDARD SIZED, UL TESTED AND CERTIFIED

PRE-FILTER (STAGE 1): 24" x 24" x 1". 3 PLY POLYESTER CONSTRUCTION. TWO LAYERS OF 1/8 DUAL DENIER POLY FIBERS IWTH FINAL DUST CATCHING ADHESIVE LAYER. TO UL STANDARD 900 AND CAN 4-S111.

MAIN MEDIA FILTER (STAGE 2): 24"x24"x6". HEPA MAX 3000 HIGH EFFICIENCY PARTICULATE AIR FILTER. DOP TESTED WITH 0.3 MICROMETER SIZED PARTICLES TO HAVE A MINIMUM EFFICIENCY OF UP TO 95% AND EXCEEDS THE MAXIMUM EFFICIENCY OF 98% ASHRAE 52.1 TESTED FILTERS.

GAS PHASE EXTRACTOR (STAGE 384): ONE 24"x24"x4", MULTISORB 3000 BLENDED GAS PHASE EXTRACTOR. 🖁 RESPIRATOR GRADE ACTIVATED CARBON GRANUALS EFFECT FOR

CABINET CONSTRUCTION: 18&16 GAUGE ALL WELDED STEEL CONSTRUCTION. 25"x26"x28" CUSTOM GRAY PODER COAT PAINT FINISH. TWO HINGED ACCESS PANELS: ONE, TO THE FILTER BANK AND THE OTHER TO THE MOTOR/BLOWER UNIT. FURNISH WITH DWYER MAGNEHLIC STATIC PRESSURE GAGE.

ELECTRICAL:  $\frac{3}{4}$  HP 1725 RPM, 115 VOLT SINGLE PHASE ELECTRICAL MOTOR. 13.6 FLA, RESILIENT MOUNT, AUTOMATIC THERMAL PROTECTION.

BLOWER: CONTINENTAL CENTRIFUGAL IMPELLER AND FUNNEL CONE. NON METAL & CHEMICALLY RESISTANT.

AVEC CONTROL PANEL: 120V POWER REQUIRED. AUTOMATIC VEHICLE EXHAUST CONTROL, MULTI CIRCUIT AUTOMATIC RESET TIMER CONTROL. TWO CIRCUIT CONFIGURATIONS RATED AT 20 AMPS. ENCLOSED NEMA 4 RATED ENCLOSURE., MANUAL THREE POSTION SWITCH, WITH AUTO-OFF-RUN OVERIDE.

JTOMATIC ACTIVATION SWITCHES: PHOTO ELECTRIC EYES ACTIVATE SYSTEM UPON VEHICLE MOVEMENT AND MAGNETIC DOOR SWITCH.

FLUI	VIBING SCHEDULE		
HANDI E	STANDARD CHROME EINIGH	ANTI SIDUONI	1//

HB1 HOSE BIB: COLD WATER SERVICE, MANUALLY OPERATED WHEEL HA ME FINISH, ANTI-SIPHON, VACUUM BREAKER, HORIZONTAL MOUNT, ASSE 101 APPROVED, ¾" INLET, ¾" MALE HOSE NOZZLE OULTET. MFG: WOODFORD MODEL 24 C INLET.

WH1

WALL HYDRANT: 7.5" MAXIMUM LENGTH, A.S.S.E. 1019-B CERTIFIED EXPOSED TYPE, SELF DRAINING, NON FREEZE LOW LEAD, WALL HYDRANT
WITH A.S.S.E. 1011 APPROVED ANTI-SIPHON AND VANDAL RESISTANT INTEGRAL VACUUM BREAKER WITH 13/4" (19) MALE HOSE CONNECTION, HYDRANT ASSEMBLY COMPLETE
WITH NEOPRENE PLUNGER TO CONTROL BOTH THE FLOW AND DRAIN FUNCTIONS, HARDENED BRONZE OPERATING STEM, DRAIN PORT UNDER THE HEXAGON NUT, HEAVY DUTY
BRASS CASING, 360 DEGREE SWIVEL INLET CONNECTION, HEAVY DUTY CHROME PLATED BRONZE HEAD CASTING AND POLISHED CHROME PLATED FACE PLATE. OPERATING KEY TO BE FURNISHED WITH EACH HYDRANT, 3"INLET AND 3/4" OUTLET. MFG: MIFAB MYH-10, NO EXCEPTION.

### ROOF EXHAUST FAN SCHEDULE

ROOF EXHAUST FAN: BELT DRIVE, CENTRIFUGAL ROOF EXHAUST FAN, ALUMINUM HOUSING-BACKWARD INCLINED ALUMINUM WHEEL, ALUMINUM BIRD SCREEN, BACKDRAFT DAMPER, BALL BEARING MOTOR, MOTOR ISOLATED ON SHOCK MOUNTS, CORROSION RESISTANT FASTENERS, HIGH EFFICIENCY MOTOR, NEMA 4 TOGGLE SWITCH. UNIT SHALL BE CAPABLE OF XHAUSTING THE CAPACITIES SCHEDULED BELOW. SIZED FOR 6,000 FEET ELEVATION. MANUFACTURED BY GREENHECK OR EQUIVALENT

SYMBOL	GREENHECK	CFM	ESP IN	DAMPE	R SIZE	ELECT	RICAL		SONES	WEIGHT	REMARKS
	MODEL#		W.C.	WIDTH (IN)	HEIGHT (IN)	V/PH/HZ	FLA	HP		(LBS)	
THRU (EF5)	GB-121-3	1,500	0.25	12	12	115/1/60	7.2	183	13.2	75	FURNISH W/ ROOF CURB

### LOUVER SCHEDULE

LOUVER: 4" DEEP FRAME, 35" BLADE DESIGN, EXTRUDED ALUMINUM, DRAIN GUTTERS IN THE HEAD MEMBER, HORIZONTAL BLADES, INTERNAL BIRDSCREEN TO MATCH LOUVER. ACCESSORY DAMPERS AS LISTED IN REMARKS, LOUVERS SHALL HAVE STANDARD FINISH. UNIT SHALL BE CAPABLE OF CAPACITIES LISTED BELOW. SITE ELEVATION 6,000 FEET. MFG GREENHECK ESD-435 OR EQUIVALENT.

SYMBOL	GREENHECK MODEL#	WIDTH (IN)	HEIGHT (IN)	FREE AREA (FT^2)	VELOCITY (FPM)	DESIGN FLOW (CFM)	REMARKS
(LV1)	ESD-435	32	32	3.55	845		INTAKE. FURNISH WITH STANDARD ENAMEL COLOR TO BE SELECTED BY ARCHITECT. FURNISH WITH 120V MOTORIZED DAMPER.

### RADIANT TUBE HEATER INDOOR

RADIANT TUBE HEATER INDOORS. SINGLE STAGE, LOW INTENSITY, NATURAL GAS FIRED, INFRARED RADIANT TUBULAR HEATING SYSTEM WITH POWER BURNER HOUSED IN A STANDARD STEEL BURNER CONTROL FIRING BOX INTO A 4" DIAMETER COMBUSTION CHAMBER TUBE DESIGNED FOR HORIZONTAL SUSPENSION. UNITS SHALL BE EQUIPPED FOR USE WITH NATURAL GAS AND ORFICED FOR INSTALLATION AT 6,000 FEET ABOVE SEA LEVEL. THE UNIT SHALL INCLUDE A SINGLE STAGE GAS VALE AND SINGLE SPEED COMBUSTION FAN. THE BURNER CONTROL SYSTEM SHALL HAVE A 24 VOLT TRANSFORMER, MULTI-TRY DIRECT SPARK (IGNITION WITH SOFT LOCKOUT, LED DIAGNOSTIC LIGHT, POWER ON LIGHT, BURNER ON LIGHT, FOWER BURNER WITH PAPE PURGE AND POST PURGE, AND A DIFFERENTIAL PRESSURE SWITCH. THE TUBULAR SYSTEM SHALL BE STANDARD CALCOAT COMBUSTION CHAMBER AND STEEL TUBES. SYSTEM SHALL INCLUDE STANDARD OVERLAPPING REFLECTORS AND END COVERS. FURNISH UNITS WITH 50" GALVANIZED CHAIN, S HOOKS, AND GALVANIZED SUSPENSION TURNBUCKLE KITS. FURNISH UNIT WITH VEN THRU ROOF CAP, COMBUSTION AIR INLET HOOD. UNIT MANUFACTURED FOR INDOOR ENVIRONMENT. MFG: REZNOR OR EQUIVALENT.

			~WEIGHT	NOMINAL	E	LECTRICAL [	DATA	HEATING F	ERFORMANCE	
SYMBOL	REZNOR MODEL NO.	LOCATION	(LBS)	TUBE LENGTH (FT)	VOLT	PHASE	HERTZ	SL INPUT (MBH)	OUTPUT AT 6000 FEET ELEVATION (MBH)	REMARKS
(RAD)	VP S N 125 A	BAY	90	50	115	1	60	125	77.9	50 FT STANDARD STEEL TUBE PACKAGE, BURNER INSERT, TURBULATOR, COUPLERS, FURNISH WITH TSTAT

### UNIT HEATER SCHEDULE

UNIT HEATER: HORIZONTAL AIR DELIVERY ELECTRIC UNIT HEATER, STEEL CASING OF THE CAPACITY AND VOLTAGE LISTED BELOW. UNITS SHALL BE UL AND NEC LISTED FOR SAFE OPERATION CONSTRUCTION AND PERFORMANCE, CONTROL COMPARTMENT SHALL SAFELY ENCLOSE POWER AND TERMINAL BLOCKS, INCLUDE SAFETY FAN GUARD OF HEAVY GAUGE STEEL, MOTOR AND FAN SHALL BE TOTALLY ENCLOSED WITH AUTOMATIC RESETTING AND THERMAL OVERLOAD PROTECTION, FURNISH UNIT WITH MOUNTED UNIT THERMOSTAT. FURNISH WITH LOW VOLTAGE CONTROL TRANSFORMER AND CONTACTOR. MANUFACTURED BYQMARK OR EQUIVALENT.

		WEIGHT	SUPPLY FAN DATA		ELE	CTRICAL I	DATA			HEATING RFORMAN		
SYMBOL	QMARK.	(LBS)	CFM	VOLT	PHASE	HERTZ	AMPS	HP	KW	EAT °F	LAT°F	REMARKS
UH1 UH2	MUH0321	27	350	240	1	60	12.5	1 100	3	55		FURNISH T-STAT THAT MOUNTS ON UN IT. FURNISH WITH WALL MOUNTING BRACKET

### NATURAL GAS REGULATORS

	AS REGULATORS: DE	SIGNED FOR	R NATURAL GA	AS SERVICE, B	ASIC REGULAT	OR WITH FULL	. CAPACITY INTERNAL RELIEF WITH ¾" OR 1" VENTS, CAPACITIES AS LISTED BELOW.
SYMBOL	ELSTER MODEL #	INLET (IN)	OUTLET (IN)	INLET PSIG	OUTLET (IN WC)	CFH	REMARKS
(REG1)	1800B2	0.75	0.75	2.0	10	300	FULL PORT RELIEF
REG2	1800B2	0.75	0.75	2.0	10	125	FULL PORT RELIEF
(REG3)	1800B2	0.75	0.75	2.0	10	100	FULL PORT RELIEF

### MOLZENCORBIN

2701 Miles Road SF Albuquerque, New Mexico 87106 505 242 5700 office 505 242 0673 fax

NOTICE OF EXTENDED PAYMENT PROVISION: THIS CONTRACT ALLOWS THE OWNER TO MAK PAYMENT WITHIN 45 DAYS AFTER SUBMISSION OF AN UNDISPUTED REQUEST FOR PAYMENT

### NUMERIC SCALE CONFIRMATION

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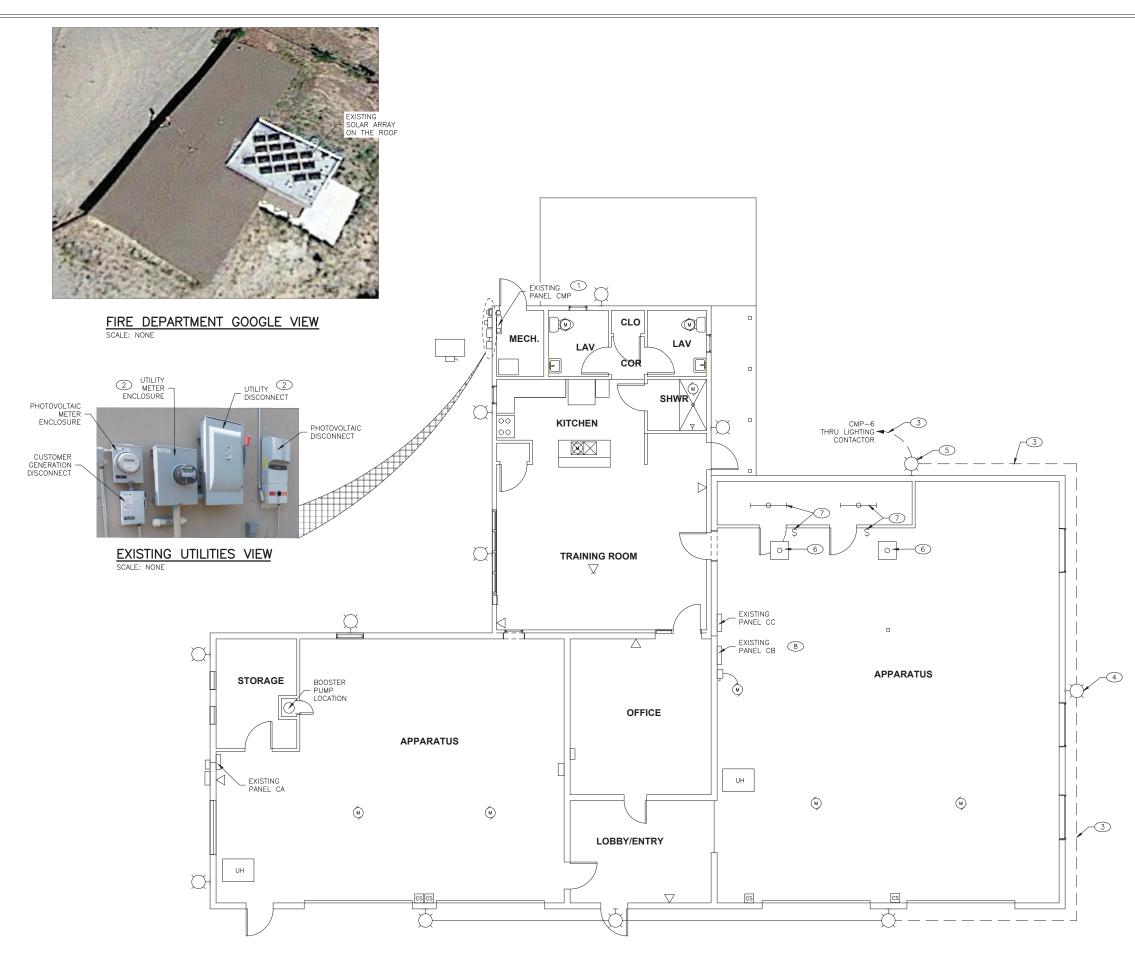
CHIMAYO FIRE STATION ADDITION

FE COUNTY, NEW MEXICO

SANTA F CHIMAYO, 1

AND PLUMBING SCHEDUL

M-601



### KEYED NOTES #

- EXISTING DISTRIBUTION PANEL CMP TO BE REPLACED WITH UPGRADED PANEL. SEE SHEET E-602 FOR PANEL SCHEDULE.
- EXISTING UTILITY METER AND SERVICE DISCONNECT TO BE REPLACED WITH UPGRADED DEVICES. SEE SHEET E-601 FOR MORE DETAILS.
- 3. REMOVE CONDUIT AND CONDUCTORS.
- 4. EXISTING LIGHT FIXTURE TO BE RELOCATED TO THE FRONT OF THE BUILDING ADDITION. SEE SHEET E-103.
- 5. EXISTING LIGHT FIXTURE TO BE RELOCATED TO THE BACK OF THE BUILDING ADDITION. SEE SHEET E-103.
- 6. EXISTING LIGHT TO BE RELOCATED. SEE SHEET E-103 FOR NEW LOCATION.
- 7. DEMOLISH EXISTING LIGHT FIXTURE AND LIGHT SWITCH. PULL WIRING BACK TO SOURCE.
- 8. EXISTING PANEL "CB" TO BE MODIFIED. SEE SHEET E-602 FOR PANEL SCHEDULE.

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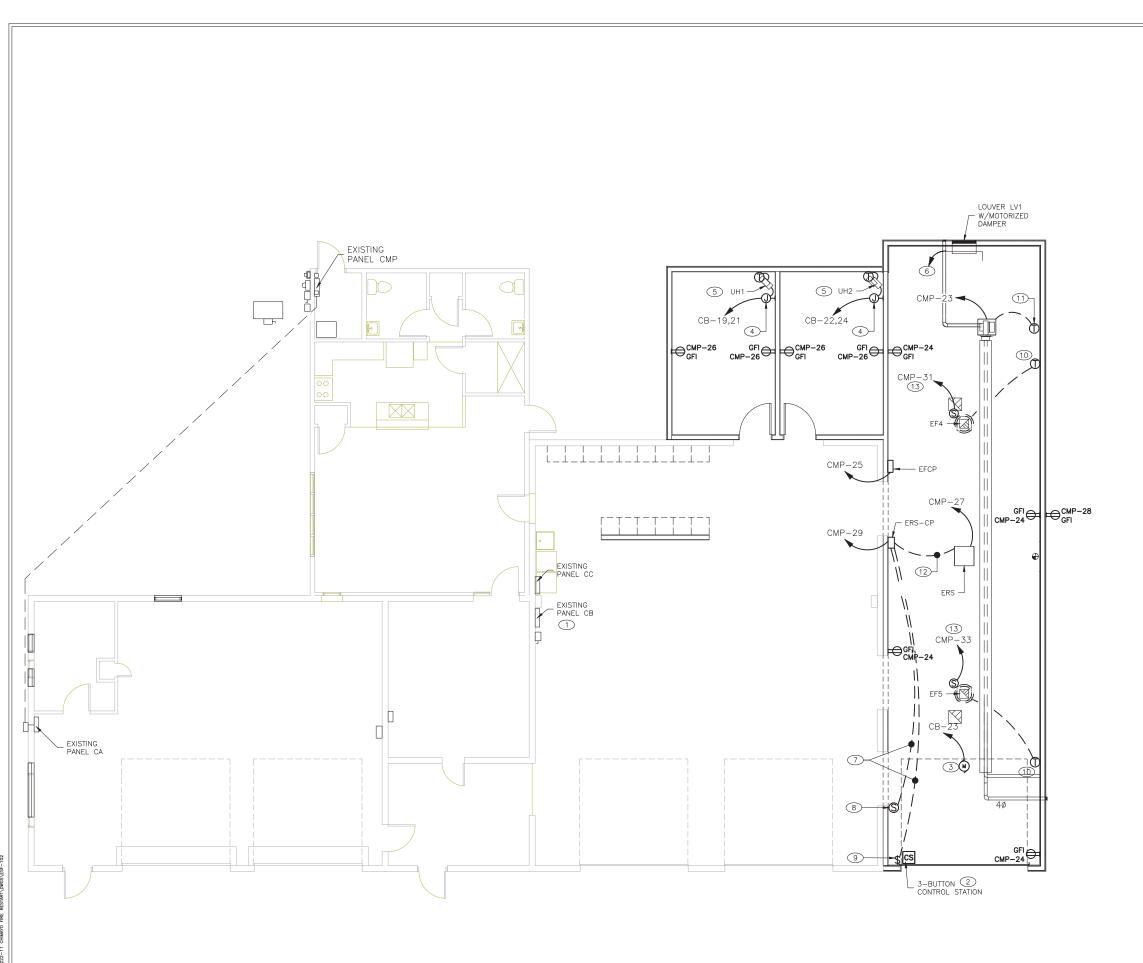


			$\overline{}$				_		_
				SFC222-11	ΝN	NN	DC	MORROW	MAY 2023
				S				Α.	Σ
			DESCRIPTION					PRIME DESIGN PROFESSIONAL:STEVEN K. MORROW	
			REV DATE	NUMBER:	BY:	۳	BY:	SIGN PROF	DATE:
			REV NO	PROJECT NUMBER:	DESIGNED BY:	DRAWN BY:	CHECKED BY:	PRIME DE:	PROJECT DATE:
$\equiv$			=	F					=

ELECTRICAL EXISTING POWER AND LIGHTING DEMOLITION PLAN

CHIMAYO FIRE STATION ADDITION SANTA FE COUNTY CHIMAYO, NM





### **GENERAL NOTES**

KEYED NOTES **(#)** 

LOCATION ON FIELD.

BY MANUFACTURER.

- EXISTING EQUIPMENT AND ELECTRICAL POWER LINES ARE IDENTIFIED BY LIGHTER PEN WEIGHT OF THE DRAWING.
- ALL ELECTRICAL WORK SHALL BE PERFORMED IN A NEAT AND WORKMAN LIKE MANNER IN FULL ACCORDANCE WITH NATIONAL ELECTRICAL CODE (NEC), NATIONAL ELECTRIC SAFETY CODE (NESC), AND LOCAL AND STATE SAFETY
- 3. ALL WIRING SHALL BE COPPER, THHN/THWN INSULATION. MINIMUM CONDUCTOR SIZE SHALL BE #12.

1. SEE SHEET E-602 FOR MODIFIED PANEL SCHEDULE. CONNECT 3-BUTTON CONTROL STATION TO THE DOOR OPERATOR AS RECOMMENDED BY MANUFACTURER. SHOWN HERE FOR DRAFTING PURPOSES. COORDINATE EXACT LOCATION ON LEFT D.

3. ENTRAPMENT PROTECTION DEVICE MUST BE INSTALLED FOR THE ROLL—UP DOOR. CONNECT DEVICE TO THE OPERATOR AS RECOMMENDED BY MANUFACTURER.

4. MOUNT J-BOX FOR UNIT HEATER POWER ON THE WALL ADJACENT TO THE UNIT HEATER. TYPICAL FOR ALL. 5. HEATER SUPPLIED WITH INTEGRAL THERMOSTAT AND CONTROL UNIT. TYPICAL FOR ALL.

INTERLOCK MOTORIZED DAMPER WITH EXHAUST FAN EF1 AND EF2 VIA EXHAUST FAN CONTROL PANEL EFCP. SEE SHEET E-603 FOR WIRING DIAGRAM.

 2-CONDUCTOR/SHIELDED CABLE AS RECOMMENDED BY MANUFACTURER. 8. PHOTO EYE FURNISHED WITH EXHAUST REMOVAL SYSTEM (ERS). CONNECT TO ERS—CP AS RECOMMENDED BY MANUFACTURER.

9. DOOR SWITCH FURNISHED WITH ERS. CONNECT TO ERS—CP AS RECOMMENDED BY MANUFACTURER. 10. CONNECT THERMOSTAT TO EXHAUST FAN AS RECOMMENDED

11. THERMOSTAT SUPPLIED WITH RADIANT TUBE HEATER. CONNECT AS RECOMMENDED BY MANUFACTURER.

12. MAKE CONNECTION BETWEEN ERS AND ERS-CP AS RECOMMENDED BY MANUFACTURER.

### MOLZENCORBIN

2701 Miles Road SE Albuquerque, New Mexico 87106 505 242 5700 office 505 242 0673 fax MolzenCorbin.com

NOTICE OF EXTENDED PAYMENT PROVISION: THIS CONTRACT ALLOWS THE OWNER TO MAKE PAYMENT WITHIN 45 DAYS AFTER SUBMISSION OF AN UNDISPUTED REQUEST FOR PAYMENT

### NUMERIC SCALE CONFIRMATION

DRAWINGS ARE DEPICTED AT INTENDED NUMERIC SCALES IF THIS BAR EQUALS ONE INCH

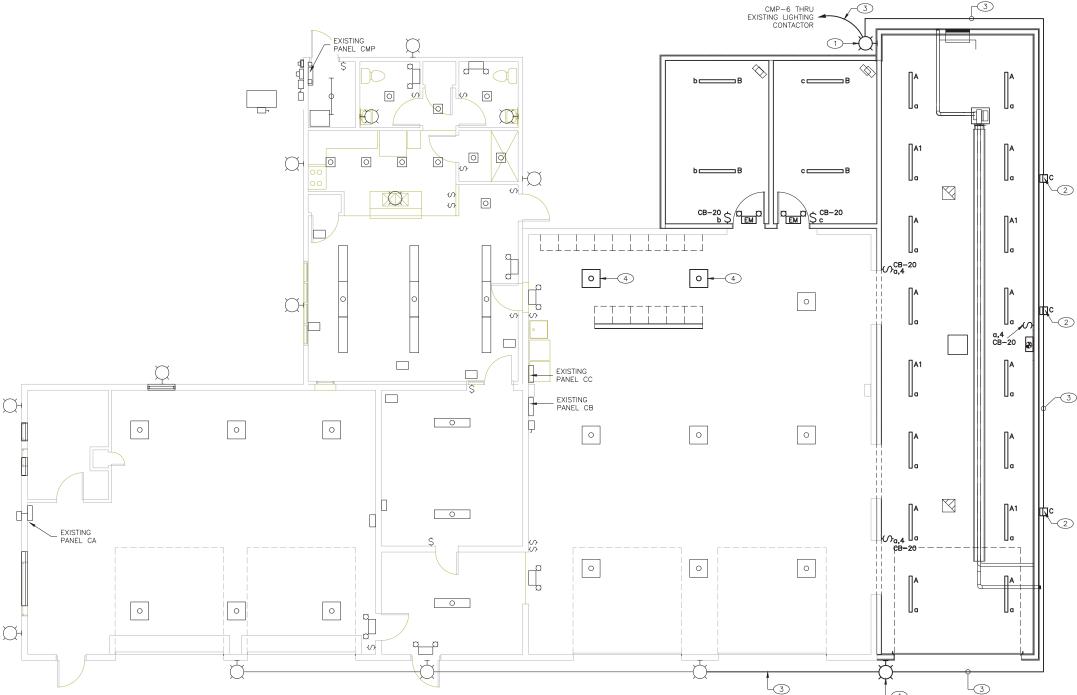
13. CONNECT EXHAUST FAN TO 120V POWER SUPPLY VIA EFCP. SEE SHEET E-603 FOR WIRING DIAGRAM.

PLAM POWER MODIFICATION ELECTRICAL

CHIMAYO FIRE STATION ADDITION SANTA FE COUNTY CHIMAYO, NM



LGHT TYPE	DESCRIPTION	CAT.#	MFG	VOLTAGE	WATTAGE	LUMENS	Q-T\
А	LCL LED LENSED UTILITY CHANNEL, HIGH LUMEN INDUSTRIAL 4 FT LED STRIPLIGHT WITH FROSTED LINEAR PRISMED LENS.	LCL4-40HL-EU	COLUMBIA LIGHTING	120-277V	52	6494	12
A1	LCL LED LENSED UTILITY CHANNEL, HIGH LUMEN INDUSTRIAL 4 FT LED STRIPLIGHT WITH FROSTED LINEAR PRISMED LENS, EMERGENCY BATTERY PACK	LCL4-40HL-EU-ELL14	COLUMBIA LIGHTING	120-277V	52	6494	4
В	LCL LED LENSED UTILITY CHANNEL, MEDIUM LUMEN INDUSTRIAL 4 FT LED STRIPLIGHT WITH FROSTED LINEAR PRISMED LENS	LCL-40ML-EU	COLUMBIA LIGHTING	120-277V	42	5411	4
С	LOW PROFILE EXTERIOR WALL PACK WITH BATTERY BACKUP AND MOTION SENSOR OPTIONS. BRONZE FINISH.	WLZ4-3-3K-BR-BB/ TL-SCES-L2-BR	TRACELITE	120	40	4389	3
EM	WHITE THERMOPLASTIC LED EMERGENCY LIGHT. TEST BUTTON.	ELM-LED-812-W	ELITE	120	10	-	2
Х	WHITE THERMOPLASTIC LED EXIT SIGN. RED LETTERS. WHITE HOUSING.	ELX-503-RW	ELITE	120	2	-	1



### **GENERAL NOTES**

- EXISTING EQUIPMENT AND ELECTRICAL POWER LINES ARE IDENTIFIED BY LIGHTER PEN WEIGHT OF THE DRAWING.
- ALL ELECTRICAL WORK SHALL BE PERFORMED IN A NEAT AND WORKMAN LIKE MANNER IN FULL ACCORDANCE WITH NATIONAL ELECTRICAL CODE (NEC), NATIONAL ELECTRIC SAFETY CODE (NESC), AND LOCAL AND STATE SAFETY CODES
- ALL WIRING SHALL BE COPPER, THHN/THWN INSULATION. MINIMUM CONDUCTOR SIZE SHALL BE #12.
- 4. SEE SHEET E-602 FOR POWER PANEL SCHEDULES.

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### NUMERIC SCALE CONFIRMATION

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### KEYED NOTES #

- MOUNT RELOCATED EXISTING LIGHTING FIXTURE AT THE LEVEL TO MATCH THE EXISTING LIGHT LEVEL.
- INSTALL NEW LIGHTING FIXTURE; CONNECT TO POWER SOURCE IN SERIES WITH EXISTING LIGHTING THRU EXISTING LIGHTING CONTACTOR.
- 3. INSTALL 3/4" CONDUIT WITH 3 #12 CONDUCTORS.
- 4. MOUNT RELOCATED LIGHT FIXTURE TO THE MIDDLE OF THE SPACE. RE-CONNECT TO EXISTING POWER CIRCUIT.

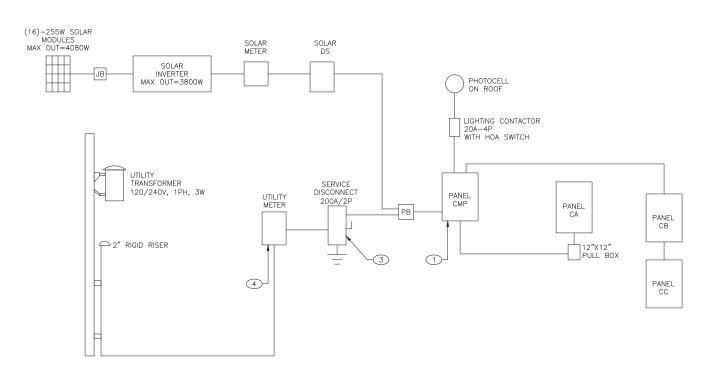
ELECTRICAL LIGHTING PLAN

CHIMAYO FIRE STATION ADDITION SANTA FE COUNTY CHIMAYO, NM

ELECTRICAL LIGHTING PLAN SCALE: 3/16"=1'-0"

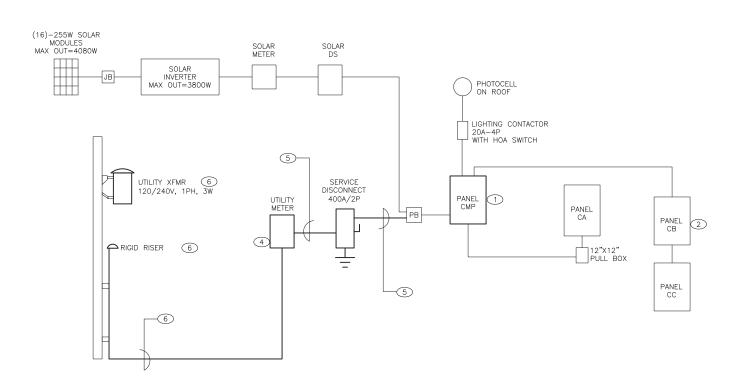






### EXISTING ONE-LINE DIAGRAM

SCALE: NONE



**GENERAL NOTES** 

KEYED NOTES #

EXISTING PANEL CC 7
SCALE: NONE

DOORS

EXISTING EQUIPMENT AND ELECTRICAL POWER LINES ARE IDENTIFIED BY LIGHTER PEN WEIGHT OF THE DRAWING.

REPLACE EXISTING DISTRIBUTION PANEL CMP WITH NEW
 400A BUS TYPE PANEL. SEE SHEET E-602 FOR PANEL
 SCHEDULE.

2. MODIFY EXISTING DISTRIBUTION PANEL CB. SEE SHEET  $E\!-\!602$  FOR PANEL SCHEDULE. 3. REPLACE EXISTING 200A/2P SERVICE DISCONNECT WITH NEW 400A/2P FUSED DISCONNECT WITH 300A FUSE.

(JMEC) FOR APPROVED MATERIAL.

5. INSTALL NEW 4" CONDUIT FOR 400A SERVICE.

6. JMEC TO UPGRADE UTILITY EQUIPMENT TO 400A.

UPGRADE EXISTING UTILITY METER TO 400A. PROVIDE NEW ENCLOSURE WITH SOCKETS FOR UPGRADED METER.
COORDINATE WITH JEMEZ MOUNTAINS ELECTRIC COOPERATIVE (1997). FOR ADDRESS. THE TENT.

(1997

7. EXISTING PANEL CC DOES NOT HAVE ANY CIRCUIT BREAKERS. CONTRACTOR TO VERIFY HOW THE PANEL CC IS BEING USED.

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ELECTRICAL EXISTING ONE-LINE DIAGRAM

CHIMAYO FIRE STATION ADDITION SANTA FE COUNTY CHIMAYO, NM

E-601

MODIFIED ONE-LINE DIAGRAM

G4242L1225CU												
		V	OLTAGE LL	240	VOLTS	V	OLTAGE LN	120	VOLTS			1 PHASE, 3 WIRE
NAMEPLATE		BU	JS RATING	400	AMPS					ENCLO:	SURE:	NEMA 1
										MOUN	TING:	SURFACE
MODIFIED PANEL CMP	_	MC	B OR MLO	MLO	AMPS							
		M	CB RATING		AIVIF3				N	IANUFACTI	JRER:	SQUARE D
FED FROM										M	ODEL:	QO LOAD CENTER
SERVICE DS		Α	IC RATING	22	KAIC				BR	ANCH BRE	AKER:	PLUG-ON
	D	LOAD	AMPS	BKR	ССТ		ССТ	BKR	LOAD	AMPS	D	
CRCT DESCRIPTION	c	Α	В	TR	NO	Ø	NO	TR	A	В	c	CRCT DESCRIPTION
RR LIGHT & EF1,2,3	2	10		20/1P	1	Α	2	20/1P	9		2	TRAINING RM LIGHII
KITCHEN LGHT	2		5	20/1P	3	В	4	20/1P		8		OUTDOOR LGHT (LC
RESTRM RCPT	3	4.5		20/1P	5	Α	6	20/1P	8			OUTDOOR LGHT (LC
COUNTER RCPT	3		3	20/1P	7	В	8	20/1P		6	9	REFRIGERATOR
DISPOSAL	9	6		20/1P	9	Α	10	20/1P	10		1	MICROWAVE
TRASH COMPACTERS	9		6	20/1P	11	В	12	50/2P		35	1	RANGE
COUNTER RCPT	3	4.5		20/1P	13	Α	14	30/ ZF	35		1	RANGE
COUNTER RCPT	3		3	20/1P	15	В	16	20/1P		12	9	FURNACE
TRAINING RM RCPT	3	4.5		20/1P	17	Α	18	30/2P	19		9	HVAC CONDENCE
TRAINING RM RCPT	3		4.5	20/1P	19	В	20	30/ ZF		19	9	HVAC CONDENCE
SPARE				20/1P	21	Α	22	20/1P				PHOTOCELL
GAS HEATER			1.8	20/1P	23	В	24	20/1P		6		BAYS RCPT
EFCP		2		20/1P	25	Α	26	20/1P	6			STORAGE RCPT
ERS FAN			13.8	20/1P	27	В	28	20/1P		4.5		EXTERIOR RCPT
ERS CP		0.5		20/1P	29	Α	30	20/1P				SPARE
EF4			7.2	20/1P	31	В	32	20/1P				SPARE
EF5		7.2		20/1P	33	Α	34	20/1P				SPARE
PANEL CA FEEDER			24	100/2P	35	В	36	20/1P				SPARE
	$\perp$	36		200/ 21	37	Α	38	20/1P				SPARE
SOLAR				30/2P	39	В	40	100/2P	120	116.2	_	PANEL CB FEEDER
SUBTOTAL (AMPS)	$\perp$	75.0	60.0		41	Α	42	•	120	200 7	-	
TOTAL (AMPS)	-	75.2 282.2	68.3 275						207	206.7	_	

G2440L1125CU			OLTAGE LL	240	VOLTS		OLTAGE LN	120	VOLTS			1 DUACE 2 WIDE
ALAA 450. A 75						V	JETAGE LIN	120	VOLIS	FNGLO		1 PHASE, 3 WIRE
NAMEPLATE		BI	JS RATING	125	AMPS							NEMA 1
										MOUN	IING:	SURFACE
MODIFIED PANEL CB	_		CB OR MLO	MLO	AMPS							
		M	CB RATING						M			SQUARE D
FED FROM												QO LOAD CENTER
PANEL CMP		А	IC RATING	10	KAIC				BR	ANCH BRE	AKER:	PLUG-ON
	D	LOAD	AMPS	BKR	ССТ		сст	BKR	LOAD	ANADS	D	
CRCT DESCRIPTION	C	A	B	TR	NO	Ø	NO	TR	A	В	c	CRCT DESCRIPTION
RCPT	1	6	ь	20/1P	1	A	2	20/1P	6	В	1	RCPT
RCPT	1	-	6	20/1P	3	В	4	20/1P		6	1	LGHT
RCPT	1	6		20/1P	5	A	6	20/1P	6		1	RCPT
RCPT	1	-	6	20/1P	7	В	8	20/1P		6	2	LGHT-OFFICE/LOBBY
RCPT	1	6	-	20/1P	9	A	10	20/1P	15		2	LGHT-SOUTH BAY
RCPT - OFFICE	3	-	6	20/1P	11	В	12			20	9	
WASHER	9	10	_	20/1P	13	A	14	40/2P	20		9	AIR COMPRESSOR
	1		20		15	В	16	20/1P				RCPT
DRYER	1	20		30/2P	17	А	18	20/1P				RCPT
		12.5		/	19	В	20	20/1P		10		NEW INTERIOR LGHT
HEATERR UH1			12.5	20/2P	21	А	22	20/20	12.5			
BAYS DOOR			11.2	20/1P	23	В	24	20/2P		12.5		HEATER UH2
SUBTOTAL (AMPS)		60.5	61.7						59.5	54.5		
TOTAL (AMPS)		120	116.2									
								L	$\overline{(2)}$			

SPARE				20/1P	21	Α	2	22 2	20/1P					SPARE
SPARE				20/1P	23	В	2	24 2	20/1P					SPARE
SUBTOTAL (AMPS)		12	12							24		12		
TOTAL (AMPS)		36	24											
			VOLTAGE	LL 240	VOLTS	;	VO	DLTAGE LN	120	VOL	TS			1 PHASE, 3 WIRE
NAMEPLATE		E	BUS RATIN	IG	AMPS							ENCL	OSURE:	NEMA 1
												MOU	NTING:	SURFACE
EXISTING PANEL CC		IV	ICB OR ML	O MLO	44400									
		N	ICB RATIN	IG	AMPS						M	ANUFAC	TURER:	SQUARE D
FED FROM												ľ	NODEL:	QO LOAD CENTER
PANEL CB			AIC RATIN	IG 10	KAIC						BR	NCH BR	EAKER:	PLUG-ON
	D	LOAI	O AMPS	BKR	CC.	т	_ [	CCT	BKF		LOAD	AMPS	D	
CRCT DESCRIPTION	С	Α	В	TR	NC	_	ø	NO	TR		A	В	С	CRCT DESCRIPTION
SPACE					1		А	2						SPACE
FRONT ROLL DOOR					3		В	4						SPACE
SPACE					5		А	6						EXERCISE EQPM
SPACE					7		B	8						EXERCISE FORM

COND	UIT MATRI	X			
	RMC	RNC	FMC	MC CABLE	EMT
EXTERIOR EXPOSED	Υ				
WITHIN BUILDING			L	γ*	Υ
BELOW FINISHED GRADE (HORIZONTAL RUNS)	Υ	Υ			
RELOW FINISHED GRADE (VERTICAL RUNS)	v				

L - CONNECTION TO LIGHTS

G2440L1125CU												
		V	OLTAGE LL	240	VOLTS	V	OLTAGE LN	120	VOLTS			1 PHASE, 3 WIRE
NAMEPLATE		В	US RATING	125	AMPS					ENCLO	SURE:	NEMA 1
										MOUN	TING:	SURFACE
EXISTING PANEL CA		MC	B OR MLO	MLO	AMPS							
		M	CB RATING		AIVIPS				M	ANUFACT	URER:	SQUARE D
FED FROM										M	ODEL:	QO LOAD CENTER
PANEL CMP		А	IC RATING	10	KAIC				BR	ANCH BRE	AKER:	PLUG-ON
CDCT DECCRIPTION	D	LOAD	AMPS	BKR	ССТ	ø	CCT	BKR	LOAD	AMPS	D	CDCT DECCRIPTION
CRCT DESCRIPTION	c	Α	В	TR	NO	l W	NO	TR	А	В	С	CRCT DESCRIPTION
EXISTING CRCT	1	6		20/1P	1	Α	2	20/1P	6		1	EXISTING CRCT
EXISTING CRCT	1		6	20/1P	3	В	4	20/1P		6	1	EXISTING CRCT
EXISTING CRCT	1	6		20/1P	5	Α	6	20/1P	6		1	EXISTING CRCT
EXISTING CRCT	1		6	20/1P	7	В	8	20/1P		6	1	EXISTING CRCT
SPARE				20/1P	9	Α	10	20/1P	12		2	NEW BAY LGHT
SPARE				20/1P	11	В	12	20/1P				SPARE
SPARE				20/1P	13	Α	14	20/1P				SPARE
SPARE				20/1P	15	В	16	20/1P				SPARE
SPARE				20/1P	17	Α	18	20/1P				SPARE
SPARE				20/1P	19	В	20	20/1P				SPARE
SPARE				20/1P	21	Α	22	20/1P				SPARE
SPARE				20/1P	23	В	24	20/1P				SPARE
SUBTOTAL (AMPS)		12	12						24	12		
TOTAL (AMPS)		36	24								_	

		V	OLTAGE LL	240	VOLTS	V	OLTAGE LN	120	VOLTS			1 PHASE, 3 WIRE
NAMEPLATE		ВІ	JS RATING		AMPS					ENCLO:	SURE:	NEMA 1
										MOUN	TING:	SURFACE
EXISTING PANEL CC		MC	B OR MLO	MLO								
		M	B RATING		AMPS				M	ΙΔΝΙΙΕΔΟΤΙ	IRFR-	SQUARE D
FED FROM												QO LOAD CENTER
PANEL CB		۸	IC RATING	10	KAIC				BR			PLUG-ON
TANLECD		^	IC IIA IIIVO	10	KAIC				Ditt	AIVEIT DILL	TIVEIT.	1200-014
	D	LOAD	AMPS	BKR	ССТ		ССТ	BKR	LOAD	AMPS	D	
CRCT DESCRIPTION	c	A	В	TR	NO	Ø	NO NO	TR	A	В	C	CRCT DESCRIPTION
SPACE				***	1	A	2	****	<b>-</b> "			SPACE
FRONT ROLL DOOR					3	В	4					SPACE
SPACE					5	A	6					EXERCISE EQPM
SPACE					7	В	8					EXERCISE EQPM
NORTH RM ROLL DOOR		11.2			9	A	10					SPACE
		11.2										
NORTH RM ROLL DOOR			11.2		11	В	12					SPACE
SPACE					13	A	14					SPACE
SPACE					15	В	16					SPACE
SUBTOTAL (AMPS)		11.2	11.2						0	0		
TOTAL (AMPS)		11.2	11.2									

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### NUMERIC SCALE CONFIRMATION

DRAWINGS ARE DEPICTED AT INTENDED NUMERIC SCALES IF THIS BAR EQUALS ONE INCH



				SFC222-11	MN	MN	DC	PRIME DESIGN PROFESSIONAL:STEVEN K. MORROW	7000 /411
			REV DATE DESCRIPTION					ESSIONAL:STE	
			REV DATE	PROJECT NUMBER:	BY:	.;.	BY:	SIGN PROF	DATE.
			REV NO	PROJECT	DESIGNED BY:	DRAWN BY:	CHECKED BY:	PRIME DE	TOUR DATE.

### GENERAL NOTES

- SCHEDULES FOR EXISTING PANELS ARE SHOWN AS THEY APPEARED IN ORIGINAL PROJECT.
- 2. CONTRACTOR TO VERIFY CONNECTED LOADS AND UPDATE PANEL SCHEDULES.

POWER CONDUIT SCHEDULE NAME COPPER WIRE

20AS 3/4"C, #12H, #12N, #12G 20A2 3/4"C, 2 #12H, #12G 20MC MC CABLE, 2 #12, #12 G 20MC2 MC CABLE, 4 #12, #12 G 30AS 3/4"C, #10H, #10N, #10G

30A2 3/4"C, 2 #10H, #10G

30A 3/4"C, 3 - #10, #10G 30WN 3/4"C, 3 - #10H, #10N, #10G 50A 1"C, 3 - #8, #8G 60A 1"C, 3 - #6, #8G 60WN 1"C, 3 - #6H, #6N, #8G 80A 1 1/2"C, 3 - #4, #8G 80AS 1 1/2"C, 2 - #4, #8G 100A 1 1/2"C, 3 - #2, #6G 125A 2"C, 3 - #1, #6G 125WN 2"C, 3 - #1H, #1N, #6G 150A 2"C, 3 - #1/0, #6G 175A 2"C, 3 - #2/0, #4G 200A 2 1/2"C, 3 - #3/0, #4G 200WN 2 1/2"C, 3 - #3/0H, #3/0N, #4G 225A 2 1/2"C, 3 - #4/0, #2G

250A 3"C, 3 - 250KCM, #2G 275A 3"C, 3 - 300KCM, #2G 300A 3"C, 3 - 350KCM, #2G 400A 4"C, 3 - 500KCM, #1G

S200A 2 1/2"C, 3 - #3/0, #3/0N S400A 4"C, 3 - 500KCM, 500KCM(N)

- 3. CONTRACTOR TO PROVIDE NEW TYPEWRITTEN SCHEDULE FOR EACH POWER PANEL FOR RECORDS.
- 4. MODIFICATION TO PANEL SCHEDULE IS SHOWN IN HEAVIER PEN WEIGHT OF THE DRAWING.

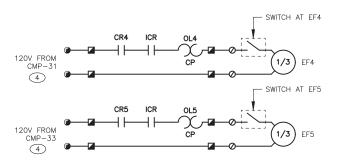
### KEYED NOTES #

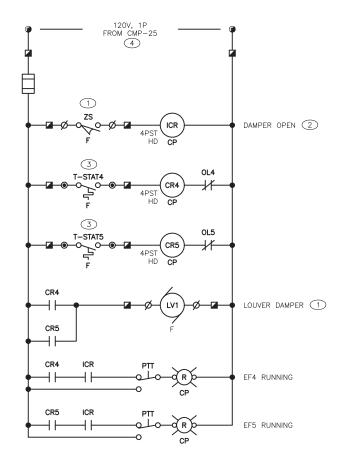
- 1. USE EXISTING SPARE 20/2P CB TO POWER EXHAUST FAN EF1.
- 2. INSTALL NEW 20/2P CB IN PLACE OF EXISTING SPARE 20/1P CIRCUIT BREAKERS TO POWER EXHAUST FAN EF2.

CHIMAYO FIRE STATION ADDITION SANTA FE COUNTY CHIMAYO, NM ELECTRICAL SCHEDULES

E-602

<sup>\*</sup> WITHIN WALLS & BETWEEN RECEPTACLES ON THE SAME CIRCUIT





### EFCP WIRING DIAGRAM SCALE: NONE

EQUIPMENT NAME	SYMBOL
EXHAUST FAN CP	
LOUVER DAMPER	Ø
DISTRIBUTION PANEL	9

### ABBREVIATION

4PST FOUR POLE SINGLE THROW HD HEAVY DUTY

<b>☑</b> TO <b>④</b>	<b>⊿</b> то <b>Ø</b>	☑ TO EF4	☑ TO EF5	✓ TO T-STAT4	■ TO T-STAT5
30AS	4#14, G	30AS	30AS	2#14, G	2#14, G

### KEYED NOTES #

- 1. INTERLOCK THE EXHAUST FANS (EF4 AND EF5) WITH THE LOUVER DAMPER.
- 2. INTERLOCKING CONTROL RELAY (ICR); 4PST HEAVY DUTY.
- 3. INSTALL CONDUCTORS AS RECOMMENDED BY T-STAT MANUFACTURER IN 3/4" CONDUIT.
- 4. SEE SHEET E-602 FOR DISTRIBUTION PANEL CMP SCHEDULE.

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DRAWINGS ARE DEPICTED AT INTENDED NUMERIC SCALES IF THIS BAR EQUALS ONE INCH



_				
_				
$\overline{}$	REV NO	REV DATE	DESCRIPTION	
	PROJECT NUMBER:	NUMBER:	S	SFC222-11
_	DESIGNED BY:	BY:		MN
_	DRAWN BY:	ij		MN
_	CHECKED BY:	BY:		DC
_	PRIME DE	SIGN PROFI	PRIME DESIGN PROFESSIONAL:STEVEN K. MORROW	K. MORROW
-	THE HOLD GOOD	Litte		1000

## ELECTRICAL WIRING DIAGRAM

CHIMAYO FIRE STATION ADDITION SANTA FE COUNTY CHIMAYO, NM