

SANTA FE COUNTY MADRID FIRE STATION

100% CONSTRUCTION DOCUMENT SET
NOVEMBER 01, 2018

LOCATION MAP



VICINITY MAP



DESIGN CRITERIA

OWNER ADDRESS: COUNTY OF SANTA FE
PUBLIC WORKS DEPARTMENT

OWNER ADDRESS: 102 GRANT AVENUE
SANTA FE, NEW MEXICO 87504

PROJECT ADDRESS: 5 FIREHOUSE LANE
MADRID, NEW MEXICO 87010

REFERENCE SHEET G-201 FOR BUILDING CODE ANALYSIS

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ARCHITECTS - PLANNERS - AIA

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SET NO.:

PROJECT: A18.04

STRUCTURAL
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120 ALISO DRIVE SE
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ABBREVIATIONS

SYMBOLS USED AS ABBREVIATIONS:

	ANGLE		INSIDE DIAMETER		INSUL INT
	CENTERLINE		JOINT		JT
	CHANNEL		JOIST		JST
	PENNY		KNOCKOUT		KO
	PERPENDICULAR		JOIST		LAM
	ROUND/DIAMETER		KNOCKOUT		LAV
	SQUARE FEET		JOIST		LF
	AT		KNOCKOUT		LM

ABBREVIATIONS:

ABOVE FINISHED FLOOR	AFF	MANUFACTURE(R)	MFR
ACCESS FLOOR	ACS FLR	MARKER BOARD	MB
ACCESSIBLE	ACC	MASONRY	MAS
ACOUSTICAL	ACOUS	MASONRY OPENING	MO
AGGREGATE	AGGR	MATERIAL(S)	MATL
ARCHITECT(URAL)	ARCH	MAXIMUM	MAX
BEAM	BM	MECHANICAL	MECH
BEARING	BRG	METAL	MTL
BELOW FINISHED FLOOR	BFF	METAL THRESHOLD	MT
BENCHMARK	BM	MINIMUM	MIN
BOARD	BD	MISCELLANEOUS	MISC
BOTTOM	BOT	MUD MAT	MM
BOTTOM OF STEEL	BOS	NOMINAL	NOM
BUILDING	BLDG	NOT IN CONTRACT	NIC
CARPET	CPT	NOT TO SCALE	NTS
CAST IRON	CI	ON CENTER(S)	OC
CEILING	CLG	OPPOSITE	OPP
CERAMIC	CER	OPPOSITE HAND SIMILAR	OHS
CHALK BOARD	CH BD	OUTSIDE DIAMETER	OD
COLUMN	COL	OWNER FURNISHED/CONTRACTOR INSTALLED	OF/CI
CONCRETE	CONC	PLASTER	PLAS
CONCRETE MASONRY UNIT	CMU	PLATE	PL
CONSTRUCTION	CONSTR	PLYWOOD	PLYWD
CONTINUOUS OR CONTINUE	CONT	POINT	PT
CONTROL JOINT	CJ	POLYVINYL CHLORIDE	PVC
CORRIDOR	CORR	POUNDS PER CUBIC FOOT	PCF
DETAIL	DET	POUNDS PER LINEAL FOOT	PLF
DIAMETER	DIA	POUNDS PER SQUARE FOOT	PSF
DIMENSION	DIM	POUNDS PER SQUARE INCH	PSI
DOWN	DN	QUARRY TILE	QT
DRINKING FOUNTAIN	DF	REQUIRE(D)	REQ(D)
ELECTRIC(AL)	ELEC	RETURN AIR	RA
ELECTRIC WATER COOLER	EWCO	RIGHT OF WAY	ROW
ELEVATION	EL	ROOF DRAIN	RD
EXISTING	EXIST	ROOF LEADER	RL
EXPANSION JOINT	EJ	ROUGH OPENING	RO
EXPOSED	EXP	SECTION	SECT
EXTERIOR	EXT	SERVICE SINK	SERV SK
EXTERIOR INSULATION & FINISH SYSTEM	EIFS	SHEATHING	SHTHG
FACE OF CONCRETE	FOC	SIMILAR	SIM
FACE OF MASONRY	FOM	SOLID CORE	SC
FACE OF STUD	FOS	SPECIFICATION(S)	SPEC
FACE OF SHEATHING	FOSHTHG	SQUARE	SQ
FINISH(ED)	FIN	SQUARE FEET	SF or SQ FT
FINISH FLOOR	FIN FLR	STRUCTURAL	STRUCT
FIRE EXTINGUISHER (CABINET)	FE(C)	SUSPENDED	SUSP
FLOOR CLEAN OUT	FCO	SYNTHETIC	SYNTH
FLOOR	FLR	TACKBOARD	TKBD
FLOORING	FLG	TONGUE & GROOVE	T&G
FOOTING	FTG	TOP OF FOOTING	TOF
GALVANIZED IRON	GI	TOP OF MASONRY	TOM
GAUGE	GA	TOP OF SLAB (OR STEEL)	TOS
GENERAL CONTRACT(OR)	GC	TOP OF STUD WALL	TOSW
GLASS, GLAZING	GL	VINYL COMPOSITION TILE	VCT
GLAZED CONCRETE MASONRY UNIT	GLZ CMU	VERTICAL	VERT
GYPSUM	GYP	WATER CLOSET	WC
HANDICAP	HC	WATER HEATER	WH
HARDWARE	HDW	WELDED WIRE FABRIC	WWF
HARDWOOD	HDWD		
HEATING/VENTILATION/AIR CONDITIONING HEIGHT	HVAC HT		
HOLLOW CORE	HC		
HOLLOW METAL	HM		
HORIZONTAL	HORIZ		
HOSE BIBB	HB		

MATERIAL INDICATIONS

	EARTH		SAND
	CONCRETE		GRAVEL
	BRICK		WOOD (FINISH)
	CONCRETE BLOCK		WOOD (THROUGH MEMBER)
	STEEL		WOOD (INTERRUPTED MEMBER)
	BATT INSULATION		GYPSUM BOARD
	RIGID INSULATION or CABINETRY		PLYWOOD
			CEILING TILE
			PARTICLE BOARD

SYMBOLS

	FLOOR PLAN		DRAWING TITLE
	BOLD LINE INDICATES NORTH		EXISTING CONTOUR
	SECTION OR DETAIL NUMBER SHEET WHERE DRAWN		NEW CONTOUR
	SECTION/ELEVATION NUMBER SHEET WHERE DRAWN		EXISTING DOOR TO REMAIN
	ELEVATION NUMBER SHEET WHERE DRAWN		EXISTING DOOR TO BE REMOVED
	ELEVATION NUMBER SHEET WHERE DRAWN		NEW DOOR
	KEYNOTE		EXISTING WALL TO REMAIN
	ROOM NAME AND NUMBER		EXISTING WALL TO BE REMOVED
	DOOR IDENTIFICATION		NEW WALL CONSTRUCTION
	WINDOW/FRAME IDENTIFICATION		WALL MOUNT FIXTURE
	EQUIPMENT OR FIXTURE IDENTIFICATION		EXIT LIGHT
	INTERIOR PARTITION TYPE		DOWN LIGHT FIXTURE
	REVISION IDENTIFICATION		FLUORESCENT FIXTURE
	CODE INFORMATION		SUPPLY AIR DIFFUSER
	STRUCTURAL GRID IDENTIFICATION		RETURN AIR GRILLE
	ELEVATION TARGET		ACOUSTICAL LAY-IN CEILING PANELS
	CHANGE IN LEVEL		5/8" TYPE "X" GYPSUM BOARD
			5/8" M.R. GYPSUM BOARD
			STUCCO SOFFIT
			METAL CEILING
			SKYLIGHT
			ROOF HATCH

GENERAL NOTES:

- DRAWINGS WERE DERIVED FROM CONSTRUCTION DOCUMENTS OF THE ORIGINAL BUILDING AS WELL AS FIELD SURVEYS BY THE ARCHITECT. THE CONTRACTOR IS TO FIELD-VERIFY ALL DIMENSIONS AND CONDITIONS OF EXISTING CONSTRUCTION, AND REPORT ANY INCONSISTENCIES TO THE ARCHITECT.
- WHERE NEW CONSTRUCTION IS ADJACENT TO EXISTING CONSTRUCTION, THE FINISH SURFACES SHOULD BE ALIGNED TO CONCEAL ALL JOINTS, ETC., OR TO MAKE AS INCONSPICUOUS AS POSSIBLE AT ALL TRANSITIONS.
- ALL EQUIPMENT AND OTHER ITEMS TO BE REMOVED SHALL BE SALVAGED TO TEMPORARILY HOLD AND PROTECT UNTIL OWNER IS PREPARED TO TAKE POSSESSION. COVER AND PROTECT ITEMS FROM DETERIORATION DUE TO WEATHER, ETC.
- CONTRACTOR TO REPAIR OR REPLACE ALL ITEMS DAMAGED AS A RESULT OF CONSTRUCTION DURING COURSE OF WORK. RESTORE ALL REPAIRED ITEMS TO CONSISTENT APPEARANCE AND TO MAINTAIN INTEGRITY OF ALL ITEMS.
- PREPARE ALL SURFACES, NEW AND EXISTING, AS REQUIRED TO RECEIVE NEW FINISHES AS INDICATED ON PLANS AND FINISH SCHEDULE.
- ALL ACTIVE PIPING, EQUIPMENT, ETC., SERVING FIXTURES AND EQUIPMENT TO REMAIN SHALL BE RELOCATED AS NECESSARY WHEN CONTAINED IN EXISTING CONSTRUCTION TO BE REMOVED.
- ALL ACTIVE ELECTRICAL WIRING, EQUIPMENT, ETC., SERVING LIGHTING, POWER, ETC., TO REMAIN SHALL BE RELOCATED AS NECESSARY WHEN CONTAINED IN EXISTING CONSTRUCTION TO BE REMOVED.
- ALL WIRING, PIPING, AND EQUIPMENT FOR MECHANICAL OR ELECTRICAL USES WHICH HAVE BEEN, OR ARE TO BE ABANDONED SHALL BE REMOVED AND CAPPED OFF AS NECESSARY TO CONCEAL ALL REMAINING ELEMENTS WITHIN THE CONSTRUCTION TO REMAIN.
- GENERAL CONTRACTOR IS RESPONSIBLE TO PATCH AND REPAIR ALL CEILINGS, WALLS, AND FLOORS AS A RESULT OF MECHANICAL AND ELECTRICAL MODIFICATIONS. RESTORE ALL ITEMS TO BE PATCHED AND/OR REPAIRED TO CONSISTENT APPEARANCE AND MAINTAIN INTEGRITY OF ALL ITEMS.
- REFER TO MECHANICAL AND ELECTRICAL DRAWINGS FOR REMOVAL AND REINSTALLATION OF LIGHTS, SMOKE DETECTORS, SPEAKERS, AND DIFFUSERS.



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CONSULTANT

PROJECT TITLE

SANTA FE COUNTY MADRID FIRE STATION

MADRID NEW MEXICO

REVISIONS:

MK	DATE	DESCRIPTION

DRAWN BY: CHECKED BY:

BJ DP

PROJECT NUMBER:

A18.04

DATE:

11/01/2018

SHEET TITLE:

GENERAL INFORMATION

SHEET NO:

G-101

BUILDING CODE ANALYSIS

APPLICABLE CODE:
2015 INTERNATIONAL BUILDING CODE

OCCUPANCY GROUP:
EXISTING: BUSINESS B-2
NEW: BUSINESS B-2 (LESS THAN 50 OCCUPANTS)

OCCUPANT LOAD:
49

CONSTRUCTION TYPE:
EXISTING: VN
NEW: VB

ALLOWABLE AREA:
6,000 S.F.

ACTUAL AREA:
2,589 EXISTING TO REMAIN
153 ADDITIVE ALTERNATE #1 ADDITION
584 NEW ADDITION
TOTAL: 3,326 S.F.

ALLOWABLE BUILDING HEIGHT: 40'-0"

ACTUAL BUILDING HEIGHT: 19'-4"(EXISTING), 18'-0"(NEW)

ALLOWABLE STORIES: 1

ACTUAL STORIES: 1

FIRE PROTECTION REQUIREMENTS:
NONE

FIRE EXTINGUISHERS:
REQUIRED: 2
PROVIDED: 3

SEPARATIONS:
NONE

SEISMIC DESIGN CATEGORY: D

PLUMBING FIXTURE REQUIREMENT

OCCUPANT LOAD:
49
25 WOMEN, 25 MEN

	WATER CLOSETS (1 PER 25 FOR FIRST 50 AND 1 PER 50 THEREAFTER)		LAVATORIES (1 PER 40 FOR FIRST 80 AND 1 PER 80 THEREAFTER)		SERVICE SINK (1 SERVICE SINK)	
	REQUIRED	PROVIDED	REQUIRED	PROVIDED	REQUIRED	PROVIDED
MALE (25)	1	1	1	1	1	1
FEMALE (25)	1	1	1	1	1	1

CODE PLAN LEGEND

- ROOM AREA ROOM AREA
- OCCUPANT LOAD FACTOR OCCUPANT LOAD FACTOR
- OCCUPANT LOAD OCCUPANT LOAD
- ← NUMBER OF OCCUPANTS EXITING
- FEC NEW FIRE EXTINGUISHER CABINET WITH FIRE EXTINGUISHER
SEE DETAILS A4 & A5/ G-211
- FEB NEW FIRE EXTINGUISHER ON WALL BRACKET
SEE DETAILS A4 & A5/ G-211 SIM.



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PROJECT TITLE

**SANTA FE
COUNTY
MADRID
FIRE STATION**

**MADRID
NEW MEXICO**

REVISIONS:

MK	DATE	DESCRIPTION

DRAWN BY: CHECKED BY:

WA JL

PROJECT NUMBER:

A18.04

DATE:

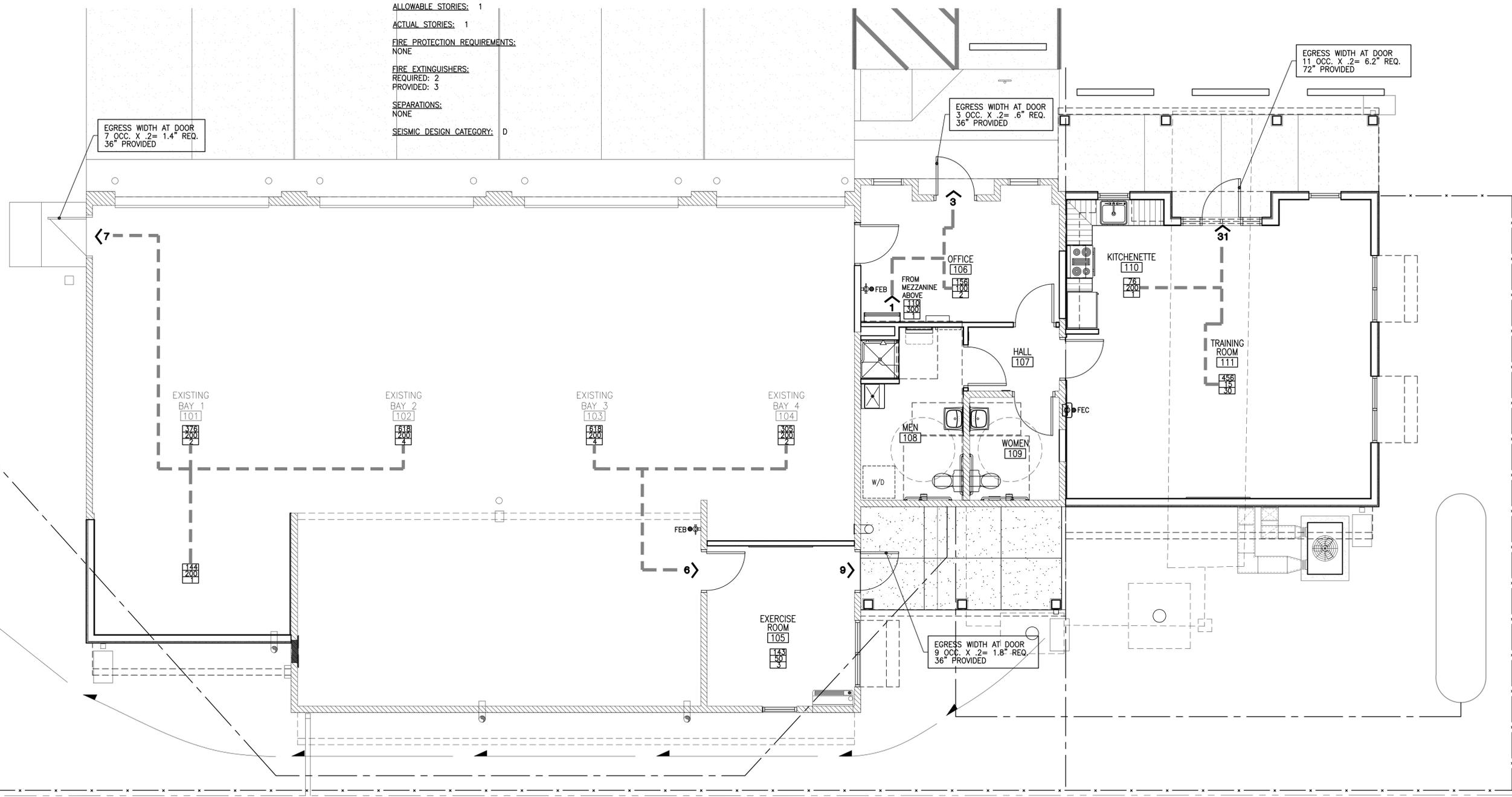
11/01/2018

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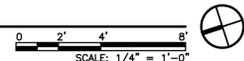
**CODE PLAN
AND
CODE INFORMATION**

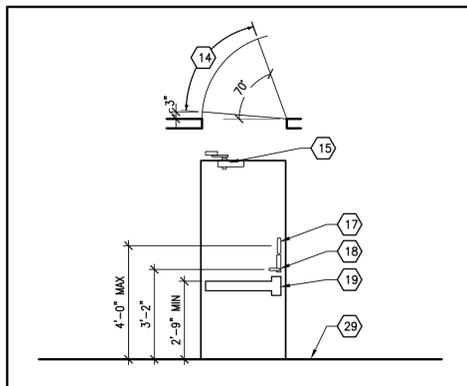
SHEET NO:

G-201

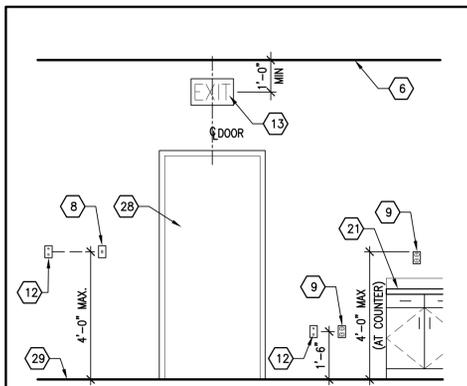


A1 CODE PLAN

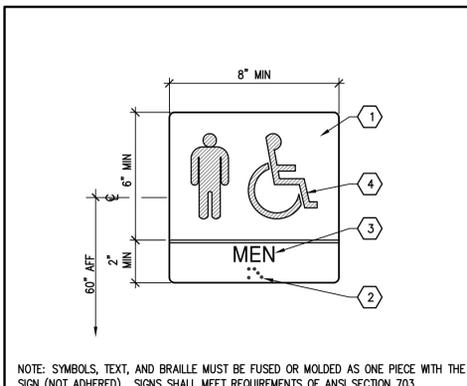




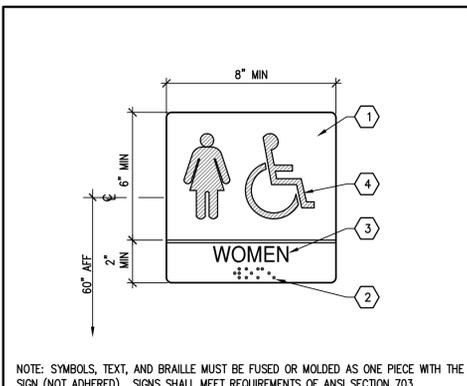
D1 OPERATING HARDWARE 3/8"=1'-0"



D2 ELECTRICAL DEVICES N.T.S.



D3 ADA SIGNAGE SCALE: 3"=1'-0"



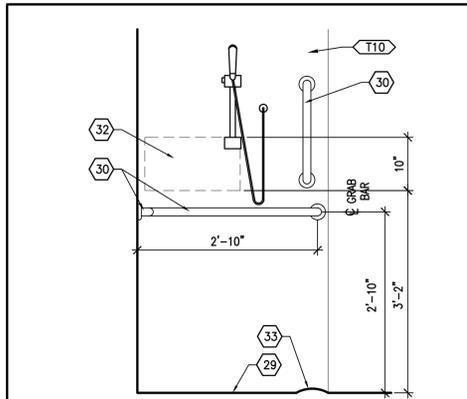
D4 ADA SIGNAGE SCALE: 3"=1'-0"

GENERAL NOTES

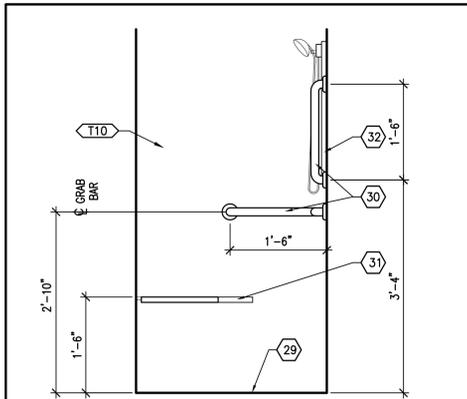
A. REFER TO THIS SHEET FOR REQUIRED A.D.A. HEIGHTS, LOCATIONS, CLEARANCES AND DIMENSIONS OF ACCESSORIES AND EQUIPMENT.

KEYED NOTES

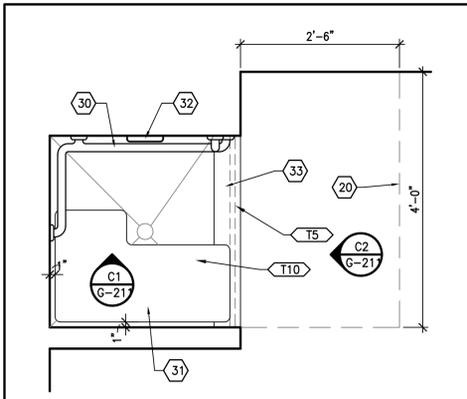
1. CONTRAST TO BE MIN. 70% CONTRASTING BETWEEN BACKGROUND AND TEXT. FINISH TO BE NON-GLARE MATTE.
2. GRADE 2 BRILLE, JUSTIFIED TO TEXT.
3. TEXT TO BE SANS SHERIF STYLE 5/8" HT. UPPER CASE RAISED 1/32".
4. SYMBOL RAISED TACTILE 1/32".
5. NEW DOUBLE METAL STUDS.
6. CEILING LINE.
7. ADA WATER CLOSET. REFERENCE PLUMBING.
8. LIGHT SWITCH.
9. ELECTRICAL OUTLET.
10. SOUND BATT INSULATION.
11. 5/8" TYPE "X" GYPSUM BOARD OR EXISTING GYPSUM BOARD. SEE FLOOR PLAN FOR WALL TYPE. FINISH AS SCHEDULED.
12. TELE/DATA JACK.
13. LOCATE DEVICE AS DIMENSIONED UNLESS CEILING IS HIGHER THAN 10'-0" THEN PLACE DEVICE 1'-6" ABOVE DOOR.
14. DOOR TO CLOSE IN 3 SECONDS FROM 70d OPEN POSITION.
15. CLOSER: 5 PLF OPENING FORCE ON ALL INTERIOR DOORS. 8.5 PLF OPENING FORCE ON ALL EXTERIOR DOORS.
16. DASHED LINE INDICATES REQUIRED KNEE SPACE FOR ANSI COMPLIANCE.
17. PULL.
18. LEVER HANDLE LOCK SET.
19. PANIC HARDWARE EXIT DEVICE.
20. CLEAR FLOOR SPACE.
21. BASE CABINET.
22. WALL BRACKET.
23. EXISTING WALL TO REMAIN.
24. PROVIDE BLOCKING AS REQUIRED.
25. SEMI-RECESSED FIRE EXTINGUISHER CABINET.
26. WALL LAVATORY. INSULATE EXPOSED PIPING.
27. FIRE EXTINGUISHER.
28. DOOR AND FRAME AS SCHEDULED.
29. FINISH FLOOR LINE.
30. ADA GRAB BAR TO SUPPORT 250 PLF FORCE.
31. ADA SHOWER SEAT.
32. ADA SHOWER CONTROLS.
33. ADA SHOWER CURB.
34. NEW FURRING AT EXISTING WALL. SEE PARTITION TYPE F.
35. EXISTING WALL TO REMAIN OR EXISTING WALL OPENING INFILL. FEE FLOOR PLAN FOR WALL TYPE.



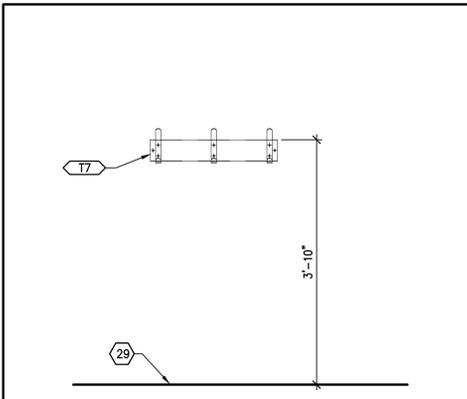
C1 ACCESSIBLE SHOWER SIDE ELEVATION 3/4"=1'-0"



C2 ACCESSIBLE SHOWER FRONT ELEVATION 3/4"=1'-0"



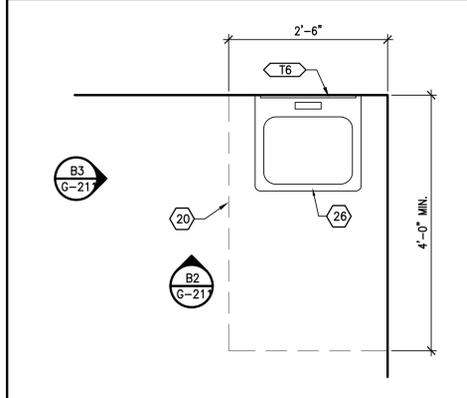
C3 ACCESSIBLE SHOWER PLAN 3/4"=1'-0"



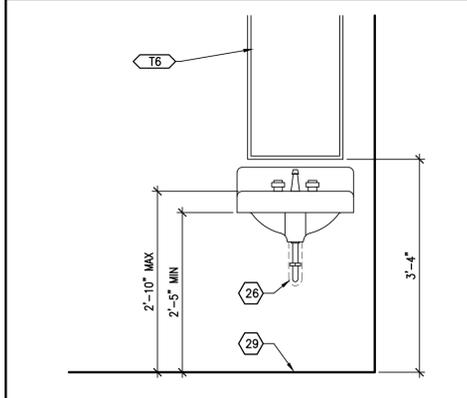
C4 HOOK STRIP ELEVATION SCALE: 3/4"=1'-0"

TOILET ACCESSORY SCHEDULE

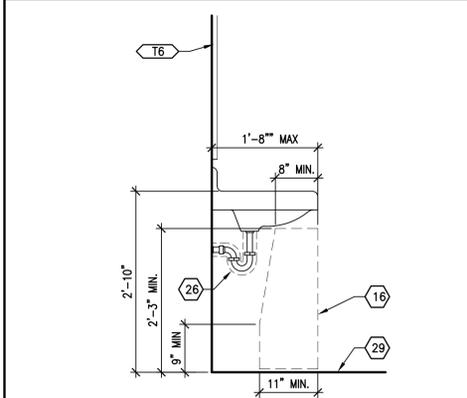
MARK	DESCRIPTION	DETAIL	MANUFACTURER	MOUNTING HEIGHT
T1	36" GRAB BAR (HORIZ.) TO SUPPORT 250 PLF FORCE	A1, A2, A3/G-211	BOBRICK # B-6806 X 36	2'-10" AFF TO CENTER
T2	42" GRAB BAR (HORIZONTAL) TO SUPPORT 250 PLF FORCE	A1, A2, A3/G-211	BOBRICK # B-6806 X 42	2'-10" AFF TO CENTER
T3	18" GRAB BAR (VERTICAL) TO SUPPORT 250 PLF FORCE	A1, A2, A3/G-211	BOBRICK # B-6806 X 18	3'-4" AFF TO BOTTOM
T4	TOILET TISSUE DISPENSER	A1, A2, A3/G-211	BOBRICK # B-2888	2'-4" AFF TO TOP
T5	36" SHOWER CURTAIN ROD	B1/A-401	BOBRICK # B-6047 X 36	6'-4" AFF TO CENTER OF ROD
T6	24" X 36" CHANNEL FRAMED MIRROR (TEMPERED)	B1, B2, B3/G-211	BOBRICK # B-165 2436	3'-4" AFF TO BOTTOM (MAX.)
T7	HOOK STRIP	C4/G-211	BOBRICK # B-232 X 24	3'-10" AFF (MAX.) TO TOP
T8	SANITARY NAPKIN DISPOSAL	A1, A2, A3/G-211	BOBRICK # B-270	4'-1" AFF TO TOP
T9	DRESSING AREA SEAT	A1/A-401	BOBRICK # B-5193	1'-6" AFF TO TOP OF SEAT
T10	36"x36"x96" ACCESSIBLE SHOWER UNIT W/ ACCESSIBLE SHOWER SEAT, GRAB BARS, HAND HELD SHOWER HEAD, CONTROLS, CURB AND DRAIN	C1, C2, C3/G-211		
T11	SURFACE MOUNTED TOWEL BAR	B4/G-211	BOBRICK # B-545 X 24	4'-0" AFF TO TOP



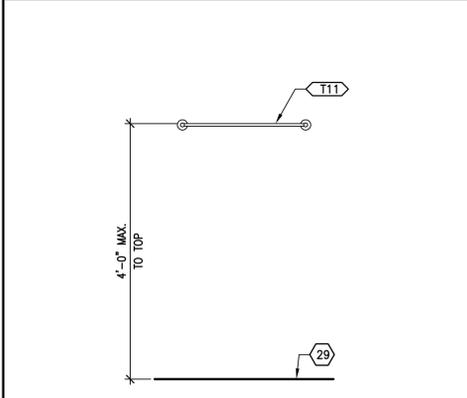
B1 LAVATORY PLAN 3/4"=1'-0"



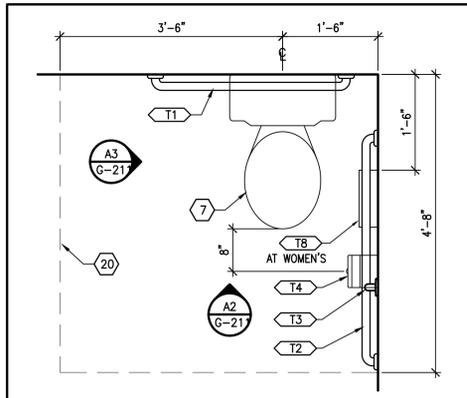
B2 LAVATORY FRONT ELEVATION 3/4"=1'-0"



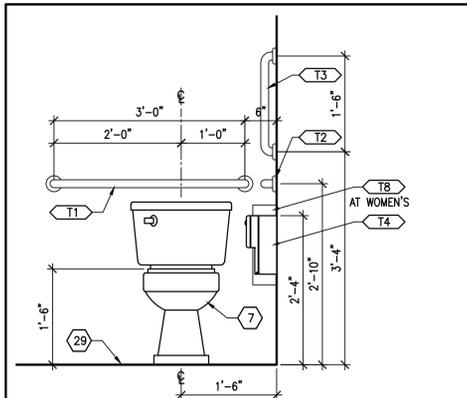
B3 LAVATORY SIDE ELEVATION 3/4"=1'-0"



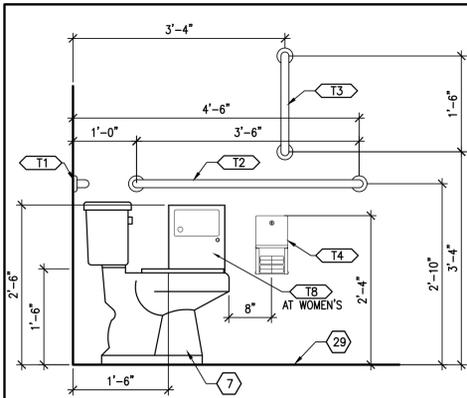
B4 TOILET ACCESSORIES 3/4"=1'-0"



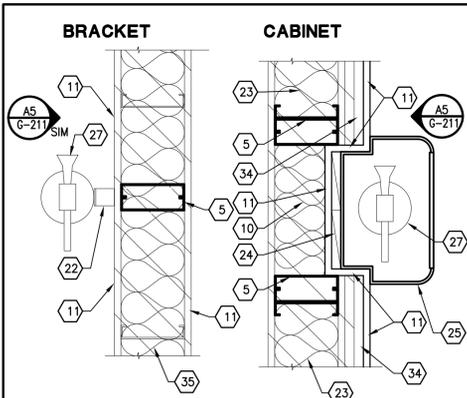
A1 WATER CLOSET PLAN 3/4"=1'-0"



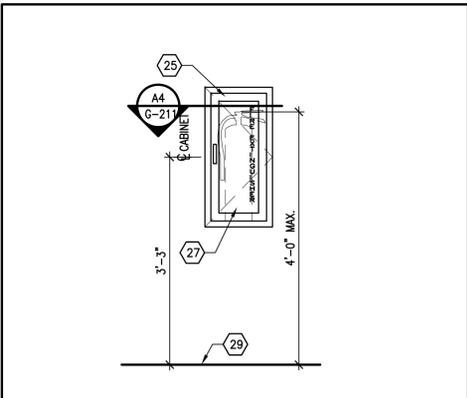
A2 WATER CLOSET FRONT ELEVATION 3/4"=1'-0"



A3 WATER CLOSET SIDE ELEVATION 3/4"=1'-0"



A4 FIRE EXTINGUISHER PLANS SCALE: 1 1/2"=1'-0"



A5 FIRE EXTINGUISHER/ CABINET ELEVATION 3/4"=1'-0"



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ARCHITECT



CONSULTANT

PROJECT TITLE

SANTA FE COUNTY MADRID FIRE STATION

MADRID NEW MEXICO

REVISIONS:

MK	DATE	DESCRIPTION

DRAWN BY: WA CHECKED BY: JL

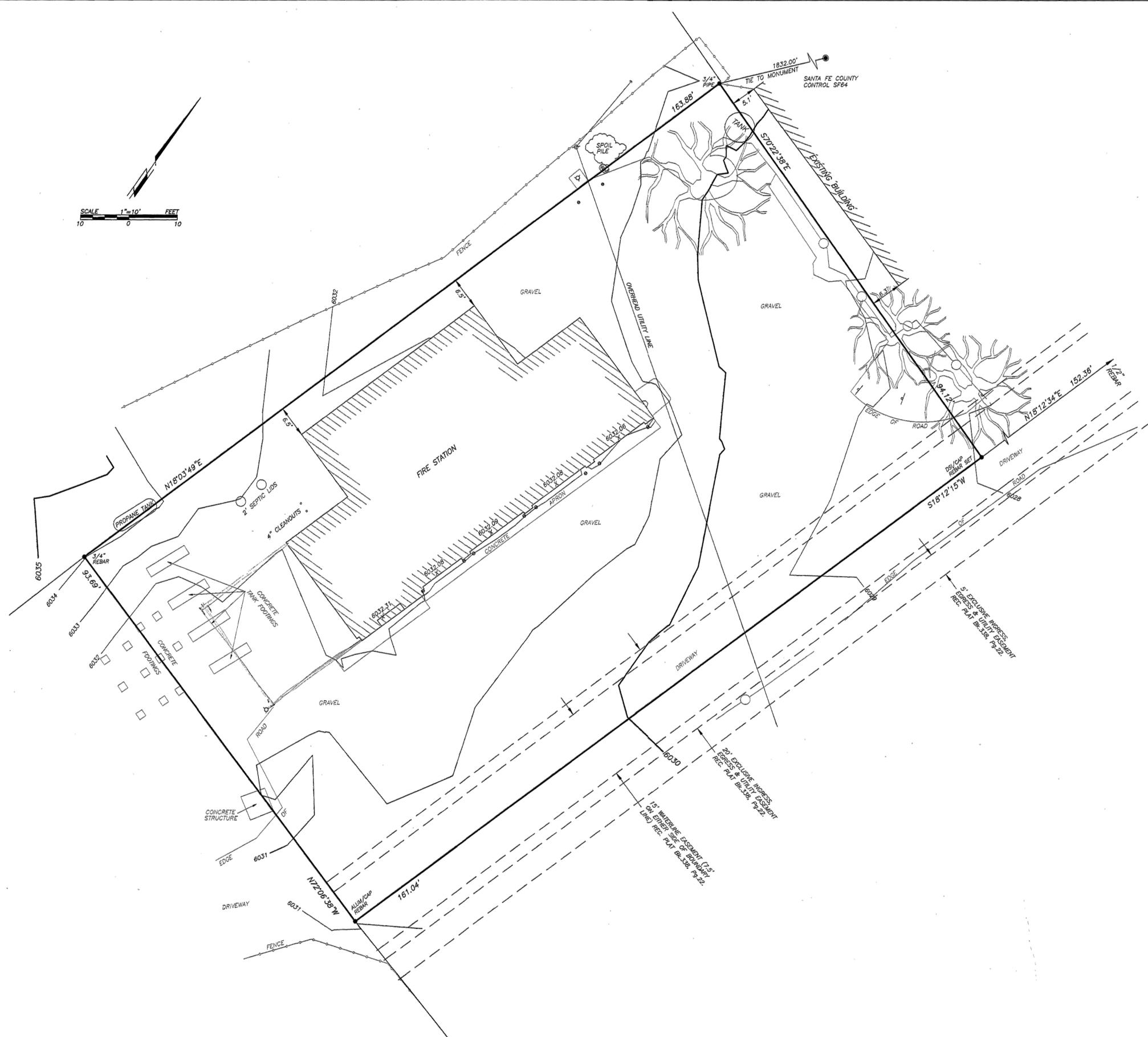
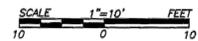
PROJECT NUMBER: A18.04

DATE: 11/01/2018

SHEET TITLE: A.D.A. INFORMATION

SHEET NO: G-211

SHEET NO:



LEGEND

BEARINGS ARE DERIVED FROM BOUNDARY SURVEY SHOWING MADRID FIRE STATION PREPARED SANTA FE COUNTY, RECORDRD MAY 9, 2017 BK.817, Pg.32, OFFICE OF THE SANTA FE COUNTY CLERK.

ELEVATIONS ARE BASED ON SANTA FE COUNTY CONTROL SF64 ELEVATION 6180.2 GPS BLUE BOOK REPORT.

- DENOTES REBAR, OR AS SHOWN
- △ DENOTES FIRE HYDRANT
- ⊙ DENOTES WATER METER
- ⊕ DENOTES UTILITY POLE AND ANCHOR TIE
- ⊖ DENOTES GUARD POST (BOLLARD)
- ⊟ DENOTES FIRE LANE SIGN
- DENOTES BOUNDARY OF LANDS DEALT WITH BY THIS PLAT INFORMATION OUTSIDE OF THIS BOUNDARY IS BACKGROUND INFORMATION ONLY, NOT VERIFIED FOR ACCURACY AND IS NOT PART OF THIS PLAT.

FLOOD ZONE

THIS PROPERTY LIES WITHIN ZONE "X" OTHER AREAS DETERMINED TO BE OUTSIDE THE 0.2% ANNUAL CHANCE FLOODPLAIN, AS SHOWN ON F.I.R.M. PANEL 35049C0625E, AND F.I.R.M. PANEL, MAP REVISION DECEMBER 4, 2012.

NOTES

BOUNDARY DATA IN PARENTHESIS IS FROM SANTA FE COUNTY MADRID FIRE STATION, SITE PLAN, UTILITES & LANDSCAPING PLAN PROVIDED BY THE CLIENT.
 THE FIRE STATION TRACT SUBJECT TO VALID RESTRICTIONS, COVENANTS AND EASEMENTS OF RECORD.

SURVEYORS CERTIFICATE

I HEREBY CERTIFY THAT THIS MAP IS A TRUE REPRESENTATION OF A TOPOGRAPHIC SURVEY COMPLETED UNDER MY PERSONAL SUPERVISION IN APRIL 2017. THE SURVEY AND DRAWING ARE TRUE AND CORRECT, TO THE BEST OF MY KNOWLEDGE, AND MEET THE MINIMUM STANDARDS FOR TOPOGRAPHIC SURVEYS IN NEW MEXICO.

Edward M. Trujillo
 EDWARD M. TRUJILLO, N.M.P.L.S. #12352

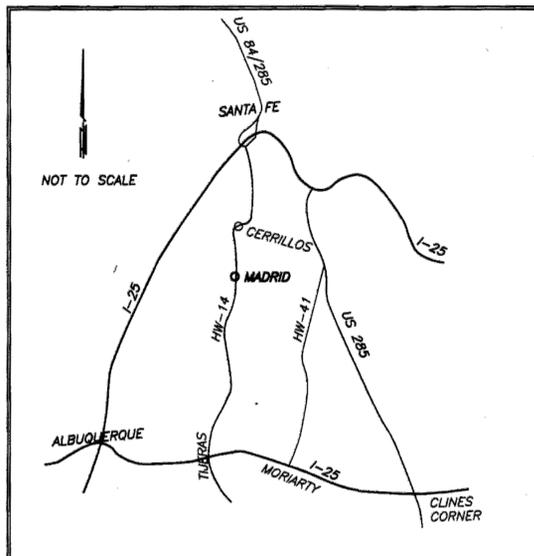


TOPOGRAPHIC MAP

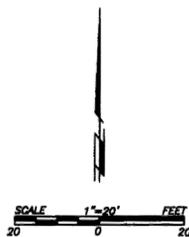
SHOWING
MADRID FIRE STATION
 PREPARED FOR
SANTA FE COUNTY
 WITHIN A PORTION OF THE MADRID TOWNSITE
 PROJECTED SECTION 36, T.14N., R.7E., N.M.P.M.
 SANTA FE COUNTY, NEW MEXICO.

V-101
FOR REFERENCE USE ONLY

DAWSON SURVEYS INC.
 PROFESSIONAL LAND SURVEYORS
 2502B CAMINO ENTRADA
 SANTA FE, N.M. 87507
 FILE#10003\TOPO DATE:05\09\17



VICINITY MAP



NOTES:

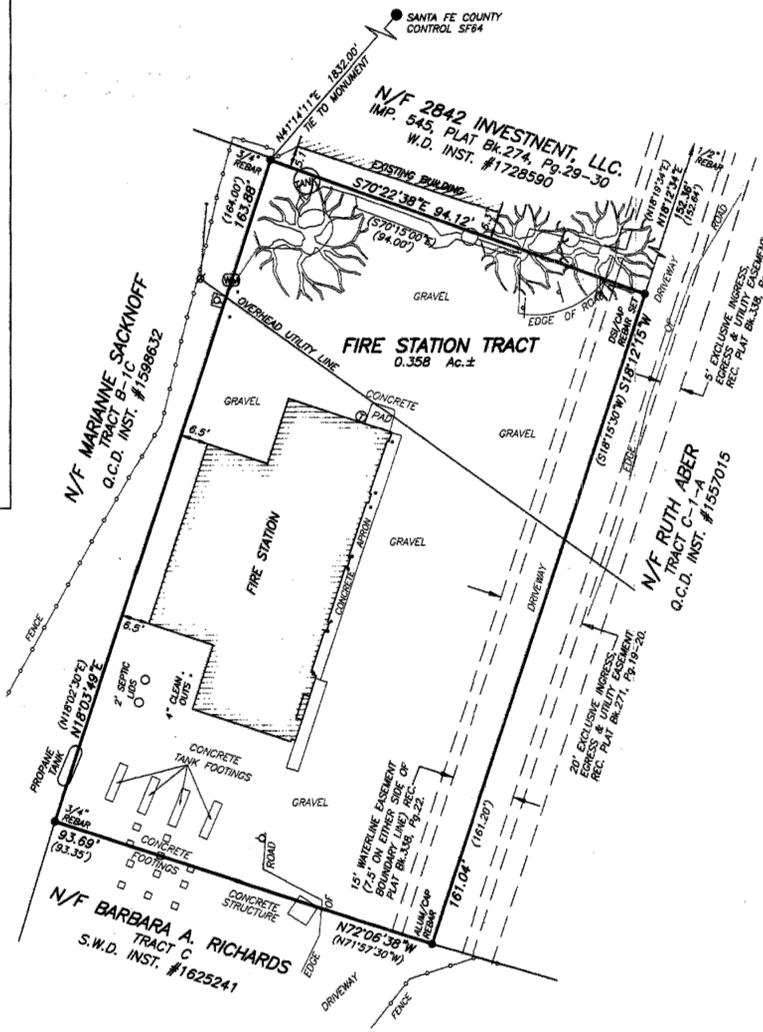
NO PRIOR PLAT HAS BEEN LOCATED FOR THIS TRACT.
 THIS TRACT SUBJECT TO VALID RESTRICTIONS, COVENANTS AND EASEMENTS OF RECORD THAT MAY AFFECT THIS PROPERTY.

FLOOD ZONE

THIS PROPERTY LIES WITHIN ZONE "X" OTHER AREAS DETERMINED TO BE OUTSIDE THE 0.2% ANNUAL CHANCE FLOODPLAIN, AS SHOWN ON F.I.R.M. PANEL 35049C0625E, AND F.I.R.M. PANEL, MAP REVISION DECEMBER 4, 2012.

SANTA FE COUNTY PUBLIC NOTICE

THE SANTA FE COUNTY LAND USE ADMINISTRATOR HAS NOT REVIEWED THIS PLAT OF SURVEY BEFORE ITS FILING IN THE OFFICE OF THE COUNTY CLERK. THIS PLAT IS NOT BEING FILED FOR THE PURPOSE OF CREATING A SUBDIVISION OR NEW LOTS, ALTERING THE BOUNDARIES OF ANY EXISTING LOTS OR FOR THE PURPOSE OF "DEVELOPMENT" AS DEFINED IN THE SANTA FE COUNTY LAND DEVELOPMENT CODE, EXTRATERRITORIAL ZONING ORDINANCE OR EXTRATERRITORIAL SUBDIVISION REGULATIONS. THIS STATEMENT DOES NOT IN ANY WAY REPRESENT OFFICIAL COUNTY APPROVAL OF THIS PLAT.



REFERENCE DOCUMENTS

1. WARRANTY DEED FROM: FROM MADRID LANDOWNERS ASSOCIATION, TO: THE COUNTY OF SANTA FE, FOR A BASE OF OPERATION FOR A FIRE FIGHTING ORGANIZATION. RECORDED IN THE OFFICE OF THE SANTA FE COUNTY CLERK ON MAY 3, 1990 IN Bk. 680, Pg.282.
2. SITE PLAN, UTILITIES & LANDSCAPING, PREPARED BY: GIL BEACH & ASSOCIATES INC. FOR SANTA FE COUNTY MADRID FIRE STATION, DATED MARCH 16, 1990.

817032

LEGEND

BEARINGS ARE NEW MEXICO STATE PLANE CENTRAL ZONE, DISTANCES ARE REFERENCED TO 6800' AMSL. TO CONVERT TO NEW MEXICO STATE PLANE CENTRAL ZONE, MULTIPLY BY 0.999583883

BOUNDARY DATA IN (PARENTHESES) ARE FROM WARRANTY DEED RECORDED ON MAY 3, 1990 IN PLAT Bk.680, Pg.282 OFFICE OF THE SANTA FE COUNTY CLERK.

SYMBOLS MAY BE SHOWN LARGER THAN ACTUAL SIZE FOR VIEWING PURPOSES.

- DENOTES CORNER MONUMENT, OR AS SHOWN
- △ DENOTES FIRE HYDRANT
- ⊙ DENOTES WATER METER
- ⊕ DENOTES UTILITY POLE AND ANCHOR TIE
- ⊙ DENOTES GUARD POST (BOLLARD)
- DENOTES FIRE LANE SIGN

— DENOTES BOUNDARY OF LANDS DEALT WITH BY THIS PLAT INFORMATION OUTSIDE OF THIS BOUNDARY IS BACKGROUND INFORMATION ONLY, NOT VERIFIED FOR ACCURACY AND IS NOT PART OF THIS PLAT.

SURVEYORS CERTIFICATE

I AM A NEW MEXICO REGISTERED PROFESSIONAL SURVEYOR AND HEREBY CERTIFY THAT I CONDUCTED AND AM RESPONSIBLE FOR THIS SURVEY COMPLETED ON THE 12th DAY OF APRIL, 2017. THIS SURVEY IS TRUE AND CORRECT TO THE BEST OF MY KNOWLEDGE AND BELIEF, AND THAT THIS SURVEY AND PLAT MEET THE MINIMUM STANDARDS FOR SURVEYS IN NEW MEXICO. FURTHER THAT THIS IS A BOUNDARY SURVEY OF AN EXISTING TRACT(S). IT IS NOT A SUBDIVISION AS DEFINED BY THE NEW MEXICO SUBDIVISION ACT.

Edward M. Trujillo 05-08-17
 EDWARD M. TRUJILLO, N.M.P.L.S. 12352 DATE



"TITLE AND INDEXING INFORMATION FOR COUNTY CLERK"

BOUNDARY SURVEY

SHOWING
MADRID FIRE STATION
 PREPARED FOR
SANTA FE COUNTY
 INTENDED TO BE TRACT DESCRIBED IN WARRANTY DEED RECORDED IN Bk.680, Pg.282, WITHIN A PORTION OF THE MADRID TOWNSHIP PROJECTED SECTION 36, T.14N., R.7E., N.M.P.M. SANTA FE COUNTY, NEW MEXICO.

Ind# 1825047
 COUNTY OF SANTA FE
 STATE OF NEW MEXICO
 I hereby certify that this instrument was filed for record on the 9th day of July, 2017, A.D. at 7:37 o'clock AM, and was duly recorded in book 812, page(s) 32 of the records of Santa Fe County.

Witness my Hand and Seal of office
 GERALDINE SALAZAR
 County Clerk, Santa Fe County, N.M.

Estrella Martinez
 Deputy

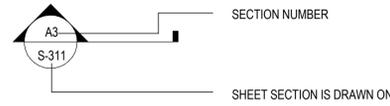


UPC #1-042-207-918-448

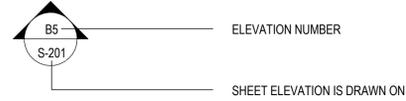
DAWSON SURVEYS INC.
 PROFESSIONAL LAND SURVEYORS
 25028 CAMINO ENTRADA
 SANTA FE, N.M. 87507
 FILE# 10003\BDYDATE:05\08\17

STRUCTURAL GRAPHIC SYMBOLS

SECTION CROSS-REFERENCE SYMBOL



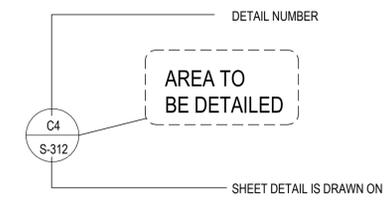
EXTERIOR ELEVATION CROSS-REFERENCE SYMBOL



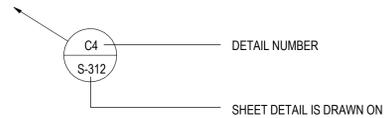
INTERIOR ELEVATION CROSS-REFERENCE SYMBOL



PLAN DETAIL CROSS-REFERENCE SYMBOL



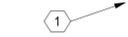
DETAIL CROSS-REFERENCE SYMBOL



NORTH ARROW SYMBOL



KEYNOTE SYMBOL



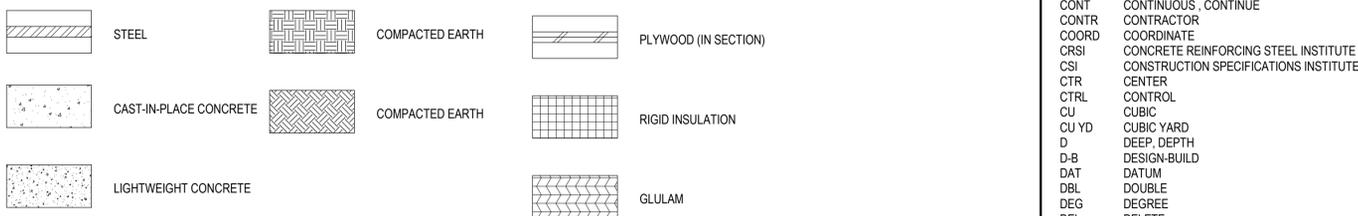
ELEVATION TARGET SYMBOL



MATCH LINE SYMBOL



STRUCTURAL MATERIALS LEGEND



ABBREVIATIONS

Table of abbreviations including Architect/Engineer, Anchor Bolt, American Concrete Institute, etc.

ABBREVIATIONS

Table of abbreviations including Diagonal, Difference, Dimension, Distance, etc.

ABBREVIATIONS

Table of abbreviations including Laminated, Lateral, POUND-FORCE, Lumber, etc.

ABBREVIATIONS

Table of abbreviations including Sump Pit, Space/Spaces, Specification, etc.



1306 RIO GRANDE BLVD NW ALBUQUERQUE, NM 87104 505-255-6400 505-268-6954 FAX WWW.NCA-ARCHITECTS.COM

ARCHITECT

CONSULTANT



PROJECT TITLE

SANTA FE COUNTY MADRID FIRE STATION

100% CONSTRUCTION DOCUMENTS MADRID NEW MEXICO



REVISIONS:

Table with columns for MK, DATE, DESCRIPTION and revision entries.

DRAWN BY: PS CHECKED BY: GB

PROJECT NUMBER: A18.04

DATE: 11-01-18

SHEET TITLE: LEGENDS AND ABBREVIATIONS

SHEET NO: S-001

GENERAL STRUCTURAL NOTES

FOUNDATION NOTES

GENERAL:

A SUBSURFACE SOIL INVESTIGATION HAS BEEN MADE BY WESTERN TECHNOLOGIES, JOB NO. 3228JJ061.

A REPORT OF THAT INVESTIGATION DATED JULY 24, 2018 IS AVAILABLE FOR VIEWING IN THE PROJECT MANUAL.

THE FOUNDATION SYSTEM FOR THIS PROJECT IS SPREAD FOOTINGS OVER UNDISTURBED NATIVE SOILS OR ENGINEERED FILL.

ADDITIONAL INFORMATION CONCERNING SPECIFIC SOIL CONDITIONS TO BE ENCOUNTERED IS AVAILABLE IN THE SOILS REPORTS AND SHALL BE REVIEWED BY THE CONTRACTOR.

FIELD OBSERVATION AND TESTS:

THE OWNER SHALL EMPLOY THE SERVICES OF A REGISTERED, LICENSED GEOTECHNICAL ENGINEER TO OBSERVE ALL CONTROLLED EARTHWORK. THE GEOTECHNICAL ENGINEER SHALL PROVIDE CONTINUOUS ON-SITE OBSERVATION BY EXPERIENCED PERSONNEL DURING CONSTRUCTION OF CONTROLLED EARTHWORK. THE CONTRACTOR SHALL NOTIFY THE GEOTECHNICAL ENGINEER AT LEAST TWO WORKING DAYS IN ADVANCE OF ANY FIELD OPERATIONS OF THE CONTROLLED EARTHWORK.

TESTS OF MATERIALS SHALL BE MADE AT THE FOLLOWING MINIMUM RATES. THE ON-SITE GEOTECHNICAL ENGINEER SHALL DETERMINE THE ACTUAL TESTING RATES:

- ONE FIELD DENSITY TEST PER 2500 SQUARE FEET OF COMPACTED SUBGRADE, PRIOR TO PLACING STRUCTURAL FILL OR SLAB-ON-GRADE, WITH A MINIMUM OF 3 TESTS.
- ONE FIELD DENSITY TEST PER 2500 SQUARE FEET OF STRUCTURAL FILL PLACED OR EACH HORIZONTAL LAYER OF STRUCTURAL FILL, WHICHEVER IS GREATER.
- ONE MOISTURE-DENSITY CURVE FOR EACH TYPE OF MATERIAL USED, AS INDICATED BY THE SIEVE ANALYSIS AND THE PLASTICITY INDEX.

THE GEOTECHNICAL ENGINEER SHALL SUBMIT THE RESULTS OF ALL REQUIRED TESTS.

CLEARING AND GRUBBING:

REMOVE ALL ASPHALT, BRUSH, RUBBISH, GRASS, AND GRASS ROOTS FROM THE CONSTRUCTION AREA.

REMOVE STUMPS, MATTED ROOTS AND ROOTS LARGER THAN 2 INCHES IN DIAMETER WITHIN 6 INCHES OF THE SURFACE OF AREAS ON WHICH FILL AND/OR FOOTINGS ARE TO BE CONSTRUCTED.

REMOVE ALL TOPSOIL FROM THE CONSTRUCTION AREA. THIS MATERIAL SHALL NOT BE USED AS FILL MATERIAL, BUT MAY BE STOCKPILED AND LATER USED IN THE TOP 6 INCHES OF FILL OUTSIDE THE BUILDING PAD.

SITE, SUBFLOOR AND BEARING SURFACE PREPARATION:

A REPRESENTATIVE OF THE GEOTECHNICAL ENGINEER SHALL BE PRESENT TO CONFIRM COMPLETE EXCAVATION OF ANY UNCONTROLLED FILL.

SCARIFY ALL EXPOSED SUBGRADE SOILS TO A DEPTH OF 10 INCHES, MOISTEN TO OPTIMUM MOISTURE CONTENT (+3%/2%) AND COMPACT TO THE DENSITY SPECIFIED HEREINAFTER.

PLACE ALL STRUCTURAL FILL IN APPROXIMATELY HORIZONTAL LAYERS NOT GREATER THAN 10 INCHES IN LOOSE THICKNESS, MOISTEN TO OPTIMUM MOISTURE CONTENT (+3%/2%) AND COMPACT TO DENSITY SPECIFIED HEREINAFTER.

ALL EARTHWORK FOR THE BUILDING PAD SHALL EXTEND A MINIMUM OF 2 FEET BEYOND THE PERIMETER FOOTINGS.

STRUCTURAL FILL REQUIREMENTS:

GRADATION (ASTM D422):

SIEVE SIZE	PERCENT PASSING BY WEIGHT
6"	100
4"	85-100
3/4"	70-100
NO. 4	50-100
NO. 20	30 MAXIMUM

PLASTICITY INDEX (ASTM D4318): 5 MAXIMUM
 MAXIMUM SOLUBLE SULFATES: 0.10%

MATERIAL LARGER THAN 6 INCHES SHALL NOT BE PLACED IN THE STRUCTURAL FILL, AND MATERIAL LARGER THAN 4 INCHES SHALL NOT BE PLACED WITHIN TWELVE INCHES OF THE BEARING SURFACES OF SLABS OR FOUNDATIONS.

NO BRUSH, SOD, FROZEN MATERIAL OR OTHER UNSUITABLE MATERIAL SHALL BE PLACED IN THE STRUCTURAL FILL. MATERIAL SHALL BE PLACED IN SUCH A MANNER AS TO RESULT IN A UNIFORMLY COMPACTED FILL.

IMPORTED FILL OR EXISTING SOILS MAY BE USED FOR THE STRUCTURAL FILL. HOWEVER, IN ORDER TO MEET THE ABOVE CRITERIA, THE ON SITE SOILS WILL PROBABLY NEED TO BE MIXED WITH IMPORTED FILL. IT IS THE CONTRACTOR'S RESPONSIBILITY TO DETERMINE THE MOST APPROPRIATE METHOD TO PROVIDE THE REQUIRED STRUCTURAL FILL.

COMPACTION REQUIREMENTS:

IN ACCORDANCE WITH ASTM D1557 (MODIFIED PROCTOR), SUBGRADE SOILS AND STRUCTURAL FILL MATERIALS SHALL BE COMPACTED TO THE FOLLOWING PERCENTAGES OF THE MAXIMUM DRY DENSITY AT +3%/2% OPTIMUM MOISTURE CONTENT:

MATERIAL	MINIMUM PERCENT COMPACTION
STRUCTURAL FILL IN THE BUILDING AREA	95
SUBBASE FOR SLAB SUPPORT	95
SUBGRADE BELOW STRUCTURAL FILL	95
MISCELLANEOUS BACKFILL	90

GENERAL STRUCTURAL NOTES

CODES AND MANUALS:

IBC-15 INTERNATIONAL BUILDING CODE 2015
 ASCE/SEI 7-10 MINIMUM DESIGN LOADS FOR BUILDINGS AND OTHER STRUCTURES
 AISI S100-12 NORTH AMERICAN SPECIFICATION FOR THE DESIGN OF COLD-FORMED STEEL STRUCTURAL MEMBERS
 ACI 318-14 BUILDING CODE REQUIREMENTS FOR STRUCTURAL CONCRETE
 ACI 530-13 BUILDING CODE REQUIREMENTS FOR MASONRY STRUCTURES
 ACI 530.1-13 SPECIFICATIONS FOR MASONRY STRUCTURES
 NDS-15 NATIONAL DESIGN SPECIFICATION FOR WOOD CONSTRUCTION WITH 2015 SUPPLEMENT
 AWS D1.3-98 STRUCTURAL WELDING CODE - SHEET STEEL

DESIGN CRITERIA:

VERTICAL:

ROOF LIVE LOAD: LR = 20'R1'R2	20 PSF
REDUCTION FACTOR BASED ON TRIB AREA	R1=1.0
REDUCTION FACTOR BASED ON ROOF SLOPE	R2=1.0

SNOW LOAD

GROUND SNOW LOAD	PG=30 PSF
FLAT ROOF SNOW LOAD**	PF=25 PSF
SNOW EXPOSURE FACTOR	CE=1.0
SNOW LOAD IMPORTANCE FACTOR	IS=1.2
THERMAL FACTOR	CT=1.0
**INCLUDES 5 PSF RAIN-ON SNOW SURCHARGE LOAD	

HORIZONTAL:

WIND

ULTIMATE DESIGN WIND SPEED	120 MPH
RISK CATEGORY	IV
EXPOSURE	C

SEISMIC

SEISMIC IMPORTANCE FACTOR	IS = 1.5
MAPPED SPECTRAL RESPONSE ACCELERATIONS	
SHORT PERIOD	SS=0.410G
1 SECOND PERIOD	S1=0.125G
SITE CLASS	C
SPECTRAL RESPONSE COEFFICIENTS	
SHORT PERIOD	SDS=0.328G
1 SECOND PERIOD	SD1=0.140G
SEISMIC DESIGN CATEGORY	D
BASIC SEISMIC FORCE RESISTING SYSTEM: BEARING WALL SYSTEM - LIGHT FRAME WALLS SHEATHED WITH WOOD STRUCTURAL PANELS RATED FOR SHEAR RESISTANCE	
SEISMIC RESPONSE COEFFICIENT	CS=0.076
RESPONSE MODIFICATION FACTOR	R = 6.5
DESIGN BASE SHEAR	V = 0.076W
ANALYSIS PROCEDURE: EQUIVALENT LATERAL FORCE	

ALLOWABLE SOIL BEARING PRESSURE = 2000 PSF

FROST DEPTH = 24 INCHES

FUTURE BUILDING EXPANSION: NONE

GENERAL:

STRUCTURAL DRAWINGS ARE NOT STAND-ALONE DOCUMENTS AND ARE INTENDED TO BE USED IN CONJUNCTION WITH CIVIL, ARCHITECTURAL, MECHANICAL, ELECTRICAL, AND DRAWINGS FROM OTHER DISCIPLINES. THE CONTRACTOR SHALL COORDINATE ALL REQUIREMENTS OF THE CONTRACT DOCUMENTS INTO THE SHOP DRAWINGS AND FIELD WORK.

COORDINATE DIMENSIONS OF ALL OPENINGS, DEPRESSIONS, BLOCKOUTS, ETC. WITH ARCHITECTURAL DRAWINGS, DRAWINGS FROM OTHER DISCIPLINES, PROJECT SHOP DRAWINGS, AND FIELD CONDITIONS PRIOR TO SHOP DRAWING SUBMITTAL. THE STRUCTURAL DRAWINGS ONLY REPRESENT A PORTION OF THE REQUIREMENTS FOR THE PROJECT.

SEE ARCHITECTURAL PLANS FOR INTERIOR NON-BEARING PARTITION WALLS. PARTITION FRAMING SHALL BE CONNECTED TO THE PRIMARY STRUCTURE TO ALLOW FOR VERTICAL LIVE LOAD DEFLECTIONS OF SPAN/360 FOR FLOOR FRAMING AND SPAN/240 FOR ROOF FRAMING.

CONTRACTOR'S CONSTRUCTION AND/OR ERECTION SEQUENCES SHALL RECOGNIZE AND CONSIDER THE EFFECTS OF THERMAL MOVEMENTS OF STRUCTURAL ELEMENTS DURING THE CONSTRUCTION PERIOD.

THE CONTRACTOR SHALL VERIFY ALL DIMENSIONS IN THE FIELD.

SHOP DRAWINGS SHALL BE FURNISHED AND REVIEWED BEFORE ANY FABRICATION OR ERECTION IS STARTED. THE CONTRACTOR SHALL REVIEW AND APPROVE SHOP DRAWINGS PRIOR TO SUBMITTAL TO THE ARCHITECT FOR REVIEW. POORLY EXECUTED SHOP DRAWINGS WILL BE REJECTED AND SHALL BE RESUBMITTED.

THE CONTRACTOR SHALL BE RESPONSIBLE FOR PROVIDING SAFE AND ADEQUATE SHORING FOR ALL PARTS OF THE STRUCTURE DURING CONSTRUCTION.

TEMPORARY PROVISIONS SHALL BE MADE FOR STRUCTURAL STABILITY DURING CONSTRUCTION. THE STRUCTURE SHOWN ON THE DRAWINGS HAS BEEN DESIGNED FOR STABILITY UNDER FINAL CONFIGURATION.

NOTCHING OR CUTTING ANY STRUCTURAL MEMBER IN THE FIELD IS PROHIBITED.

THE CONTRACTOR SHALL BE RESPONSIBLE FOR ADHERING TO ALL APPLICABLE STANDARDS SET FORTH BY OSHA.

PROTECTION: PROPER PRECAUTIONS SHALL BE TAKEN AT ALL TIMES TO PROTECT VEHICULAR AND PEDESTRIAN TRAFFIC FROM ANY DAMAGE OR INJURY WHICH MAY BE CAUSED, EITHER DIRECTLY OR INDIRECTLY, BY THE WORK INCLUDED ON THESE DRAWINGS. SUCH PRECAUTIONS SHALL INCLUDE THE ERECTION AND MAINTENANCE OF FENCES, BARRICADES, RAILINGS, GUARDS, SIGNS, COVERINGS, LIGHTS, AND OTHER PRECAUTIONS AS MAY BE REQUIRED. IF AT ANY TIME, IN THE OPINION OF THE OWNER OR THE OWNER'S REPRESENTATIVE, PROPER PRECAUTIONS ARE NOT BEING TAKEN TO SECURE THIS PROTECTION, THE CONTRACTOR SHALL AT NO ADDITIONAL COST TO THE OWNER, INSTALL AND MAINTAIN SUCH ADDITIONAL PROTECTION AS MAY BE DIRECTED BY THE OWNER.

POLLUTION CONTROLS: USE WATER SPRINKLING, TEMPORARY ENCLOSURES, AND OTHER SUITABLE METHODS TO LIMIT DUST AND DIRT RISING AND SCATTERING IN THE AIR TO LOWEST PRACTICAL LEVEL. COMPLY WITH GOVERNING REGULATIONS PERTAINING TO ENVIRONMENTAL PROTECTION.

TYPICAL DETAIL SHEETS:

THE S-700 SERIES SHEETS IN THESE DRAWINGS CONTAIN TYPICAL STRUCTURAL DETAILS FOR VARIOUS BUILDING MATERIALS. SOME OF THESE DETAILS MAY NOT BE PART OF THIS PROJECT.

GENERAL STRUCTURAL NOTES

DRAWINGS:

DO NOT SCALE DRAWINGS.

WHERE DISCREPANCIES OCCUR BETWEEN PLANS, DETAILS, GENERAL NOTES, AND SPECIFICATIONS, THE MORE STRINGENT REQUIREMENTS SHALL GOVERN. DETAILS ON DRAWINGS TAKE PRECEDENCE OVER GENERAL NOTES AND TYPICAL DETAILS. DETAILS NOTED "TYPICAL" APPLY TO ALL SIMILAR CONDITIONS. WHERE NO SPECIFIC DETAILS ARE SHOWN, CONSTRUCTION SHALL CONFORM TO SIMILAR WORK ELSEWHERE ON THE PROJECT.

CAST-IN-PLACE CONCRETE:

ALL CONCRETE SHALL CONFORM TO THE SPECIFICATIONS FOR STRUCTURAL CONCRETE, ACI 301-10.

ALL EXPOSED EDGES OF CONCRETE SHALL HAVE A 3/4" CHAMFER UNLESS NOTED OTHERWISE.

NORMALWEIGHT CONCRETE:

- A. FC = 4500 PSI @ 28 DAYS - ALL CONCRETE EXPOSED TO FREEZE/THAW CYCLES AND OCCASIONAL MOISTURE, INCLUDING CONCRETE FLAT WORK, EXPOSED BUILDING STEM WALLS, SITE WALLS, ETC. EXTERIOR CONCRETE SHALL MEET EXPOSURE CATEGORY AND CLASS F1 ACCORDING TO ACI 318 TABLE 19.3.1.1.
- B. FC = 3000 PSI @ 28 DAYS - ALL INTERIOR CONCRETE (I.E. FOOTINGS, PEDESTALS, ETC.).
- C. FC = 3000 PSI @ 28 DAYS - ALL INTERIOR SLABS ON GRADE, UNLESS NOTED OTHERWISE.

CONCRETE MIX DESIGNS (INCLUDING AIR CONTENT, WATER TO CEMENT RATIOS, AND OTHER CRITERIA) SHALL CONFORM TO THE REQUIREMENTS SET FORTH IN ACI 318 TABLE 4.3.1, BASED ON THE EXPOSURE CATEGORIES AND CLASSES DEFINED IN ACI 318 TABLE 4.2.1. USE AIR ENTRAINING ADMIXTURE IN ALL EXTERIOR CONCRETE. AIR CONTENT IN FIRE RATED SLABS SHALL ALSO COMPLY WITH THE REQUIREMENTS IN THE SPECIFIED UL LISTING.

COLD WEATHER CONCRETING: PROTECT CONCRETE WORK FROM PHYSICAL DAMAGE OR REDUCED STRENGTH CAUSED BY FROST, FREEZING OR LOW TEMPERATURES. COMPLY WITH ACI 306.1.

HOT WEATHER CONCRETING: WHEN HOT WEATHER CONDITIONS EXIST THAT WOULD IMPAIR THE QUALITY AND STRENGTH OF THE CONCRETE, REDUCE DELIVERY TIME OF READY MIX CONCRETE, LOWER THE TEMPERATURE OF MATERIALS, OR ADD RETARDER TO ENSURE THAT THE CONCRETE IS PLASTIC. RETEMPERING WITH WATER IS NOT ALLOWED. COMPLY WITH ACI 305R.

SLAB CURING: ALL INTERIOR CONCRETE SLABS, EXCEPT EXPOSED INTEGRALLY COLORED SLABS, ARE TO BE CURED WITH A MOISTURE RETAINING COVER FOR THE FIRST 7 DAYS (MINIMUM) AFTER PLACEMENT.

THE CONTRACTOR IS ALLOWED TO CAST FOUNDATIONS AGAINST EXCAVATED SOIL SURFACES, PROVIDED THE FOLLOWING IS ADHERED TO:

- A. THE SIDE SLOPES OF THE EXCAVATION SHALL BE ABLE TO MAINTAIN VERTICAL SLOPE WITHOUT SOIL SLOUGHAGE.
- B. THE BOTTOM WIDTH OF THE EXCAVATION SHALL BE ONE INCH WIDER MINIMUM ON EACH SIDE THAN THE SPECIFIED FOOTING WIDTH.
- C. THE SIDE WALLS OF THE EXCAVATION SHALL BE BATTERED A MINIMUM OF ONE INCH HORIZONTAL TO TWELVE INCHES VERTICAL.
- D. IF SANDY OR LOOSE MATERIALS ARE ENCOUNTERED, THE FOOTING MUST BE FORMED.
- E. THE CONTRACTOR SHALL BE RESPONSIBLE FOR REMOVAL OF ANY SOIL SLOUGHAGE FROM THE WET CONCRETE DURING THE CASTING OPERATION.
- F. THE CONTRACTOR AGREES TO REMOVE AND RECAST ANY FOOTING WHERE THE ABOVE CONDITIONS ARE NOT MET.

EXPOSED SITE WALLS, RETAINING WALLS, AND STEM WALLS GREATER THAN 30 FEET IN LENGTH SHALL HAVE CONTROL JOINTS INSTALLED AT THE FOLLOWING MAXIMUM SPACING:

- 12'-0" ON CENTER FOR WALLS 6'-0" MAXIMUM HEIGHT
- 18'-0" ON CENTER FOR WALLS 10'-0" MAXIMUM HEIGHT
- 20'-0" ON CENTER FOR WALLS GREATER THAN 10'-0" IN HEIGHT

ALL CONCRETE EXPOSED TO GROUND SHALL BE MANUFACTURED WITH PORTLAND CEMENT TYPE II OR TYPE V.

SEE SHEET S-711 FOR TYPICAL CONCRETE DETAILS.

REINFORCING STEEL:

ALL REINFORCING STEEL SHALL BE FABRICATED AND PLACED IN ACCORDANCE WITH THE BUILDING CODE REQUIREMENTS FOR STRUCTURAL CONCRETE (ACI 318-08), AND DETAILS AND DETAILING OF CONCRETE REINFORCEMENT (ACI 315-99).

ALL REINFORCING STEEL SHALL CONFORM TO ASTM A615 GRADE 60; EXCEPT STIRRUPS, TIES AND INDICATED FIELD-BENT BARS, WHICH SHALL CONFORM TO ASTM A615 GRADE 40.

TENSION AND COMPRESSION LAPS IN REINFORCING SHALL CONFORM TO THE LAP SPLICE SCHEDULE ON SHEET S-101 AND BE IN ACCORDANCE WITH ACI 318, CHAPTER 12, UNLESS NOTED OTHERWISE.

ALL HORIZONTAL REINFORCING IN FOOTINGS, WALLS AND BEAMS SHALL BE CONTINUOUS AROUND CORNERS OR HAVE BENT (CORNER) BARS OF THE SAME SIZE AND SPACING AS THE HORIZONTAL BARS AND LAP 30 BAR DIAMETERS (24" MINIMUM).

CONCRETE COVER FOR REINFORCING SHALL BE AS FOLLOWS UNLESS OTHERWISE NOTED: (Fire Rated Slabs May Require Additional Cover)

- A. CONCRETE CAST AGAINST AND PERMANENTLY EXPOSED TO EARTH: 3"
- B. CONCRETE CAST AGAINST FORMS BUT EXPOSED TO EARTH OR WEATHER:
 - 1. BARS LARGER THAN NO. 5: 2"
 - 2. BARS NO. 5 OR SMALLER: 1 1/2"
- C. SLAB ON GRADE: 1 1/2" FROM TOP OF SLAB

FORM TIES SHALL BE EITHER OF THE THREADED OR SNAP-OFF TYPE SO THAT NO METAL WILL BE LEFT WITHIN 1 INCH OF THE SURFACE OF THE WALL. FOLLOWING REMOVAL OF FORM TIES, RECESSES ARE TO BE CAREFULLY FILLED AND POINTED WITH MORTAR.

REINFORCING SHALL NOT BE TACK WELDED OR WELDED IN ANY MANNER UNLESS SPECIFICALLY DETAILED ON THE STRUCTURAL PLANS.

BAR SUPPORTS AND SPACERS FOR REINFORCING SHALL BE PROVIDED IN ACCORDANCE WITH ACI 315-99. REINFORCING SHALL BE SECURELY TIED TO SUPPORTS.

CHAIRS WITH 22 GAGE SAND PLATES OR PRECAST BLOCKS SHALL BE PROVIDED FOR ALL REINFORCING OF CONCRETE IN CONTACT WITH GRADE.

POST INSTALLED ANCHORS:

THE STRUCTURAL DESIGN IS BASED ON THE POST INSTALLED ANCHORING SYSTEMS NOTED BELOW. SINCE ANCHOR CAPACITIES VARY BY MANUFACTURER, THE CONTRACTOR SHALL USE ONLY THE SYSTEMS NOTED BELOW UNLESS AN ALTERNATE IS APPROVED BY THE ENGINEER OF RECORD. ALTERNATE ANCHORING SYSTEMS MAY REQUIRE RE-DESIGN TO VERIFY ANCHOR QUANTITIES, SPACING, AND EMBED DEPTHS. THE CONTRACTOR SHALL BE RESPONSIBLE FOR ANY ADDITIONAL CONSTRUCTION AND RE-DESIGN COSTS ASSOCIATED WITH THE ALTERNATE ANCHORING SYSTEM.

GENERAL STRUCTURAL NOTES

ALL ADHESIVE (EPOXY) FOR POST INSTALLED ANCHORS AND/OR REBAR INTO CONCRETE SHALL BE HILTI HIT-RE 500 V3 OR HIT-HY 200 EPOXY ADHESIVE ANCHORING SYSTEM, HILTI HIT-RE 100 OR HIT-HY 200 EPOXY ADHESIVE SYSTEM, SIMPSON SET-XP EPOXY-TIE ANCHORING SYSTEM, ITW RED HEAD EPCON G5 ADHESIVE ANCHORING SYSTEM, DEWALT PURE10+ (STANDARD CURE EPOXY) OR AC208+ (FAST CURE ADHESIVE). INSTALLATION SHALL BE PER MANUFACTURER'S RECOMMENDATIONS.

ALL POST INSTALLED MECHANICAL ANCHORS INTO CONCRETE SHALL BE (HILTI KWIK BOLT TZ EXPANSION ANCHOR, SIMPSON STRONG BOLT WEDGE ANCHOR, ITW RED HEAD TRUBOLT + WEDGE ANCHOR, DEWALT POWER-STUD+SD2). INSTALLATION SHALL BE PER MANUFACTURER'S RECOMMENDATIONS.

ANCHOR LENGTHS SHOWN FOR ATTACHMENT TO CONCRETE AND/OR MASONRY ARE REQUIRED EMBEDMENT LENGTHS. THE CONTRACTOR SHALL PROVIDE ANCHORS WITH ADDITIONAL LENGTH TO FACILITATE THE REQUIRED CONNECTION.

SUBMIT ALL PROPOSED ANCHORING SYSTEMS INCLUDING ICC-ES REPORTS TO STRUCTURAL ENGINEER FOR REVIEW PRIOR TO INSTALLATION. THE ICC-ES FORMS SHALL MEET THE REQUIREMENTS OF THE IBC REFERENCED IN THESE NOTES.

COLD-FORMED METAL FRAMING (43 MILS OR HEAVIER):

ALL COLD-FORMED METAL FRAMING SHALL CONFORM TO THE LATEST EDITION OF AISI STANDARD S100 "NORTH AMERICAN SPECIFICATION FOR THE DESIGN OF COLD-FORMED STEEL STRUCTURAL MEMBERS".

WALLS SHALL BE PROVIDED WITH MANUFACTURER'S STANDARD BRIDGING: (EITHER WELDED 2 1/2" x 43 MILS STUD OR CLIPPED COLD-ROLLED CHANNEL 1 1/2" x 54 MILS), PROVIDE BRIDGING AT 4'-0" ON CENTER MAXIMUM FOR LOAD BEARING WALLS AND EXTERIOR WALLS.

PROVIDE ALL MISCELLANEOUS ACCESSORIES AND FOLLOW ERECTION PROCEDURES AS PER MANUFACTURER'S SPECIFICATIONS AND RECOMMENDATIONS UNLESS NOTED OTHERWISE.

COLD-FORMED METAL FRAMING SHALL MEET THE MINIMUM PROPERTIES AS SHOWN IN THE STEEL STUD MANUFACTURERS ASSOCIATION (SSMA) SPECIFICATIONS.

ALL TRACK SHALL BE ANCHORED TO CONCRETE WITH 1/2" DIAMETER x 3 1/2" EMBED EXPANSION ANCHORS SPACED AT 4'-0" ON CENTER UNLESS SHOWN OTHERWISE ON PLANS.

SECURE STUDS TO TOP AND BOTTOM TRACKS BY WELDING AT BOTH INSIDE AND OUTSIDE FLANGES OR WITH A MINIMUM OF 1-#10 SELF-DRILLING SCREW PER LOCATION UNLESS NOTED OTHERWISE.

ALL COMPONENTS OF BUILT-UP STUD SECTIONS, INCLUDING COLUMNS, HEADERS, ETC. SHALL BE WELDED TOGETHER UTILIZING 1/8" FILLET WELDS, 1" LONG AT 12" OC, ALONG THE FULL LENGTH OF EACH FLANGE TO FLANGE CONNECTION.

FASTEN WELD CLIPS TO STUDS IN ACCORDANCE WITH MANUFACTURER'S RECOMMENDATIONS AND LOAD DATA TO PROVIDE AN ALLOWABLE LOAD OF 700# MINIMUM IN THE HORIZONTAL DIRECTION AND 700# MINIMUM IN THE VERTICAL DIRECTION. SEE SHEET S-731 FOR TYPICAL WELD CLIP DETAIL.

FASTEN SLIDE CLIPS TO STUDS IN ACCORDANCE WITH MANUFACTURER'S RECOMMENDATIONS AND LOAD DATA TO PROVIDE AN ALLOWABLE LOAD OF 700# MINIMUM IN THE HORIZONTAL DIRECTION. SEE SHEET S-731 FOR TYPICAL SLIDE CLIP DETAIL.

SEE SHEET S-731 FOR TYPICAL COLD-FORMED DETAILS.

WOOD FRAMING:

ALL SAWN LUMBER (2"-4" THICK, 2" & WIDER) EXCEPT STUDS SHALL BE HEM FIR, NO. 2 OR BETTER, WITH THE FOLLOWING ALLOWABLE STRESSES:

MAXIMUM FIBER STRESS IN BENDING	FB= 850 PSI
TENSION PARALLEL TO GRAIN	FT= 525 PSI
COMPRESSION PARALLEL TO GRAIN	FC= 1300 PSI
COMPRESSION PERPENDICULAR TO GRAIN	FC= 405 PSI
HORIZONTAL SHEAR	FV= 150 PSI
MODULUS OF ELASTICITY	E= 1,300,000 PSI

ALL SAWN LUMBER (5"x5" OR LARGER BEAMS AND STRINGERS) SHALL BE HEM FIR, NO. 2 OR BETTER, WITH THE FOLLOWING ALLOWABLE STRESSES:

MAXIMUM FIBER STRESS IN BENDING:	FB= 675 PSI
TENSION PARALLEL TO GRAIN:	FT= 350 PSI
COMPRESSION PARALLEL TO GRAIN:	FC= 405 PSI
HORIZONTAL SHEAR:	FV= 140 PSI
MODULUS OF ELASTICITY:	E= 1,100,000 PSI

ALL SAWN LUMBER (5"x5" OR LARGER POSTS AND TIMBERS) SHALL BE HEM FIR, NO. 2 OR BETTER, WITH THE FOLLOWING ALLOWABLE STRESSES:

MAXIMUM FIBER STRESS IN BENDING	FB= 575 PSI
TENSION PARALLEL TO GRAIN	FT= 375 PSI
COMPRESSION PARALLEL TO GRAIN	FC= 575 PSI
COMPRESSION PERPENDICULAR TO GRAIN	FC= 405 PSI
HORIZONTAL SHEAR	FV= 140 PSI
MODULUS OF ELASTICITY	E= 1,100,000 PSI

STUDS (2"-4" THICK, 2" & WIDER) SHALL BE SPRUCE-PINE-FIR, NO. 2 OR BETTER, WITH THE FOLLOWING ALLOWABLE STRESSES:

MAXIMUM FIBER STRESS IN BENDING	FB= 875 PSI
TENSION PARALLEL TO GRAIN	FT= 450 PSI
COMPRESSION PARALLEL TO GRAIN	FC= 1150 PSI
COMPRESSION PERPENDICULAR TO GRAIN	FC= 425 PSI
HORIZONTAL SHEAR	FV= 135 PSI
MODULUS OF ELASTICITY	E= 1,400,000 PSI

APA SPAN RATED SHEATHING:

SEE PLANS FOR GRADE, THICKNESS, AND LOCATIONS OF SHEATHING.

ROOF AND WALL SHEATHING SHALL BE CONTINUOUS OVER 2 SPANS MINIMUM. ENDS OF PANELS SHALL OCCUR DIRECTLY OVER SUPPORTS.

WOOD CONNECTIONS:

NAILING SHALL BE IN ACCORDANCE WITH THE NAILING SCHEDULE ON SHEET S-311 UNLESS OTHERWISE NOTED. COMMON OR BOX NAILS MAY BE USED EXCEPT WHERE OTHERWISE NOTED.

JOIST HANGERS SHALL BE BY SIMPSON STRONG-TIE CO. OR EQUAL WITH CONNECTIONS INSTALLED ACCORDING TO MANUFACTURER'S RECOMMENDATIONS.

BOLTS AND LAG BOLTS (OR SCREWS) SHALL BE ASTM A307.

STEEL SIDE PLATES SHALL BE ASTM A36.

LAG BOLTS (OR SCREWS) SHALL BE INSTALLED IN PRE-DRILLED HOLES. THE SIZE OF THE PRE-DRILLED HOLES SHALL BE PER THE LATEST EDITION OF THE NATIONAL DESIGN SPECIFICATION FOR WOOD CONSTRUCTION.

SPECIAL INSPECTION:

THE OWNER SHALL PROVIDE FOR SERVICES OF A CERTIFIED INSPECTOR (APPROVED BY THE BUILDING OFFICIAL OR THE ENGINEER OF RECORD) IN ACCORDANCE WITH CHAPTER 17 OF THE INTERNATIONAL BUILDING CODE FOR THE SPECIAL INSPECTION ITEMS NOTED ON SHEET S-003.



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100% CONSTRUCTION
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MADRID
NEW MEXICO



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DRAWN BY: PS CHECKED BY: GB

PROJECT NUMBER:
A18.04

DATE:
11-01-18

SHEET TITLE:

GENERAL
STRUCTURAL
NOTES

SHEET NO.:

S-002

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S-003

SCHEDULE OF STRUCTURAL SPECIAL INSPECTIONS

- SPECIAL INSPECTIONS / TESTING - "SPECIAL STRUCTURAL INSPECTION" SHALL NOT RELIEVE THE OWNER OR THEIR AGENT FROM HAVING THE INSPECTIONS OF THE JURISDICTION BUILDING DEPARTMENT PER SECTION 110 OF THE IBC PERFORMED. BOTH THE JURISDICTION BUILDING DEPARTMENT INSPECTIONS AND "SPECIAL STRUCTURAL INSPECTION" SHALL BE PERFORMED.
- THE GENERAL CONTRACTOR SHALL BE RESPONSIBLE FOR NOTIFYING THE JURISDICTION BUILDING OFFICIAL AND SPECIAL INSPECTOR WHEN WORK IS READY FOR INSPECTION.
- REPORTING FOR SPECIAL INSPECTION - SPECIAL INSPECTION AND TESTING REPORTS SHALL BE COMPLETED AND DISTRIBUTED AT THE COMPLETION OF EACH TASK. IF A TASK IS TO TAKE LONGER THAN THREE (3) DAYS, PROVIDE REPORTS FOR EACH DAY. PROVIDE COPIES OF REPORTS TO CONTRACTOR, OWNER, ARCHITECT AND STRUCTURAL ENGINEER OF RECORD. SPECIAL INSPECTOR TO KEEP A NON-COMPLIANCE LIST DOCUMENTING ITEMS INSPECTED NOT MEETING APPROVED CONSTRUCTION DOCUMENTS AND WHEN / HOW RESOLVED.
- SEE ARCHITECTURAL, MECHANICAL, ELECTRICAL, AND PLUMBING CONSTRUCTION DOCUMENTS FOR ADDITIONAL NON-STRUCTURAL SPECIAL INSPECTION ITEMS.
- SPECIAL INSPECTION OF SHOP FABRICATED MEMBERS AND ASSEMBLIES SHALL BE IN ACCORDANCE WITH SECTION 1704.2, UNLESS FABRICATOR IS APPROVED TO PERFORM WORK WITHOUT SPECIAL INSPECTION.
- IN ACCORDANCE WITH IBC CHAPTER 17, THE OWNER OR THE OWNER'S AGENT, OTHER THAN THE CONTRACTOR, SHALL EMPLOY ONE OR MORE APPROVED AGENCIES TO PROVIDE SPECIAL INSPECTIONS AND TESTS, DURING CONSTRUCTION FOR THE TYPES OF WORK LISTED BELOW THESE SPECIAL INSPECTIONS AND TESTS ARE IN ADDITION TO THE INSPECTIONS BY THE BUILDING OFFICIAL IDENTIFIED IN IBC SECTION 110
- DEFINITIONS:
 - SPECIAL INSPECTION:** INSPECTION AS HEREIN REQUIRED BY A QUALIFIED SPECIAL INSPECTOR COMPETENT WITH THE MATERIALS, INSTALLATION, FABRICATION, ERECTION OR PLACEMENT OF COMPONENTS AND CONNECTIONS REQUIRING SPECIAL EXPERTISE TO ENSURE COMPLIANCE WITH APPROVED CONSTRUCTION DOCUMENTS AND REFERENCED STANDARDS (SEE SECTION 1704).
 - CONTINUOUS SPECIAL INSPECTION:** FULL-TIME OBSERVATION OF WORK REQUIRING SPECIAL INSPECTION BY AN APPROVED SPECIAL INSPECTOR WHO IS PRESENT IN THE AREA WHERE THE WORK IS BEING PERFORMED.
 - PERIODIC SPECIAL INSPECTION:** THE PART-TIME OR INTERMITTENT OBSERVATION OF WORK REQUIRING SPECIAL INSPECTION BY AN APPROVED SPECIAL INSPECTOR WHO IS PRESENT IN THE AREA WHERE THE WORK HAS BEEN OR IS BEING PERFORMED AND AT THE COMPLETION OF THE WORK.

ITEM	DESCRIPTION OF REQUIREMENTS	REQUIRED (YES/NO)
SPECIAL INSPECTION OF STRUCTURAL STEEL	TO BE PERFORMED IN ACCORDANCE WITH CHAPTER N OF AISC360-10	NO
SPECIAL INSPECTION AND VERIFICATION OF STEEL CONSTRUCTION OTHER THAN STRUCTURAL STEEL	TO BE PERFORMED IN ACCORDANCE WITH IBC SECTION 1705.2.2	NO
SPECIAL INSPECTIONS AND VERIFICATIONS FOR CONCRETE CONSTRUCTION	TO BE PERFORMED IN ACCORDANCE WITH IBC SECTION 1705.3	NO
SPECIAL INSPECTIONS AND VERIFICATIONS FOR MASONRY CONSTRUCTION	TO BE PERFORMED IN ACCORDANCE WITH IBC SECTION 1705.4 AND REFERENCED STANDARDS	NO
SPECIAL INSPECTIONS AND VERIFICATIONS FOR WOOD CONSTRUCTION	TO BE PERFORMED IN ACCORDANCE WITH IBC SECTION 1705.5	YES
SPECIAL INSPECTIONS AND VERIFICATIONS OF SOILS	TO BE PERFORMED IN ACCORDANCE WITH IBC SECTION 1705.6, THE GEOTECHNICAL REPORT LISTED IN THE GENERAL FOUNDATION NOTES, AND ANY OTHER REQUIREMENTS LISTED IN THE GENERAL FOUNDATION NOTES	YES
SPECIAL INSPECTIONS AND VERIFICATIONS FOR DEEP FOUNDATIONS (DRIVEN PILES, CAST-IN-PLACE, OR HELICAL PILES AS APPLICABLE)	TO BE PERFORMED IN ACCORDANCE WITH IBC SECTIONS 1705.7-1705.9 AS APPLICABLE, THE GEOTECHNICAL REPORT LISTED IN THE GENERAL FOUNDATION NOTES, AND ANY OTHER REQUIREMENTS LISTED IN THE CONSTRUCTION DOCUMENTS	NO
SPECIAL INSPECTIONS FOR WIND RESISTANCE (REQUIRED ONLY FOR Vult=155MPH OR GREATER IN EXPOSURE CATEGORY B, OR Vult=142MPH OR GREATER IN EXPOSURE CATEGORY C OR D)	TO BE PERFORMED IN ACCORDANCE WITH IBC SECTION 1705.11	NO
SPECIAL INSPECTIONS AND VERIFICATIONS FOR SEISMIC RESISTANCE (REQUIRED FOR STRUCTURES ASSIGNED TO CATEGORIES C, D, E, OR F)	TO BE PERFORMED IN ACCORDANCE WITH ALL APPLICABLE PORTIONS OF IBC SECTIONS 1705.12 AND 1705.13	YES

WALL SCHEDULE				
MARK	WALL	REINFORCING		COMMENTS
		VERTICAL	HORIZONTAL	
WC8	8" CONC	#4 @ 12" OC	#4 @ 12" OC	

CONTINUOUS FOOTING SCHEDULE					
MARK	SIZE		REINFORCING		COMMENTS
	WIDTH	DEPTH	CONTINUOUS	TRANSVERSE	
CF24	2'-0"	1'-0"	3-#4	#4 @ 32" OC	

REINFORCEMENT TYPE	REINFORCING LAP SCHEDULE						MINIMUM LENGTH (IN)	COMMENTS
	#6 AND SMALLER (#db)			#7 AND LARGER (#db)				
	3000 PSI	4000 PSI	5000 PSI	3000 PSI	4000 PSI	5000 PSI		
CONTINUOUS WALL FOOTINGS AND STEM WALLS	30	30	30	30	30	30	18	
RETAINING WALLS AND BASEMENT WALL VERTICAL REINFORCING	57	50	45	72	62	56	12	
RETAINING WALLS AND BASEMENT WALL HORIZONTAL REINFORCING	57	50	45	72	62	56	12	
CONCRETE COLUMNS NOT SUPPORTING LATERAL FORCES	30	30	30	30	30	30	12	
CONCRETE COLUMNS SUPPORTING LATERAL FORCES	57	50	45	72	62	56	12	
TOP FLEXURAL REINFORCEMENT, INCLUDING BEAMS, GRADE BEAMS, AND COMBINED COLUMN FOOTING AT BRACED FRAME AND MOMENT FRAMES	57	50	45	72	62	56	12	
BOTTOM FLEXURAL REINFORCEMENT, INCLUDING BEAMS, GRADE BEAMS, AND COMBINED COLUMN FOOTING AT BRACED FRAME AND MOMENT FRAMES	57	50	45	55	62	56	12	
SLABS-ON-GRADE	30	30	30	30	30	30	12	
MINIMUM EMBEDMENT OF STANDARD HOOKS INTO CONCRETE BASE	16	14	12	16	14	14	6	INCREASE LENGTH FOR # 11 BARS AND LARGER BY A FACTOR OF 1.4
ALL REBAR LAPS IN CMU				72			12	

SHEET KEYNOTE

- WALL TIE DOWN.

GENERAL SHEET NOTES

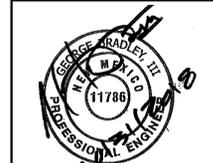
- REFERENCE FINISH FLOOR ELEVATION 100'-0" = MEAN SEA FINISH FLOOR ELEVATION. SEE CIVIL DRAWINGS.
- NOTE TO ERECTOR: LATERAL STABILITY OF THE STEEL FRAME IS DEPENDENT UPON THE SHEATHED METAL STUD WALLS. THE ERECTOR SHALL PROVIDE TEMPORARY BRACING OF THE STEEL FRAME IN ACCORDANCE WITH SECTION 7.10 OF THE AISC CODE OF STANDARD PRACTICES.
- DIMENSIONS ARE TO THE FACE OF CONCRETE UNLESS NOTED OTHERWISE.
- EXISTING CONSTRUCTION IS PER AVAILABLE EXISTING DRAWINGS. ALL EXISTING CONSTRUCTION AND DIMENSIONS SHALL BE VERIFIED PRIOR TO CONSTRUCTION. SHOULD CONDITIONS VARY FROM THOSE SHOWN, CONTACT ENGINEER BEFORE PROCEEDING.
- PROVIDE SLAB JOINTS AT 12'-0" ON CENTER MAXIMUM. THE AREA OF THE CONTROL JOINT SHALL NOT EXCEED A 2:1 RATIO. CONTROL JOINTS SHALL BE LOCATED AT COLUMN LINES WHERE THE LAYOUT PERMITS. AT RE-ENTRANT CORNERS THAT DO NOT HAVE CONTROL JOINTS, PROVIDE 2-#4 x 3'-0" DIAGONAL TO THE RE-ENTRANT CORNER.
- SEE SHEET S-301 FOR TYPICAL FOUNDATION SECTIONS AND DETAILS.
- ALL EXTERIOR WALLS TO BE SHEATHED W/ 7/16" OSB FIRE RATED SHEATHING. ATTACH TO ALL SUPPORTS W/ #10 SELF-DRILLING SCREWS @ 12" OC.
- COORDINATE ALL DIMENSIONS WITH ARCHITECTURAL DRAWINGS.



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FIRE STATION**

**100% CONSTRUCTION
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MADRID
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PROJECT NUMBER:

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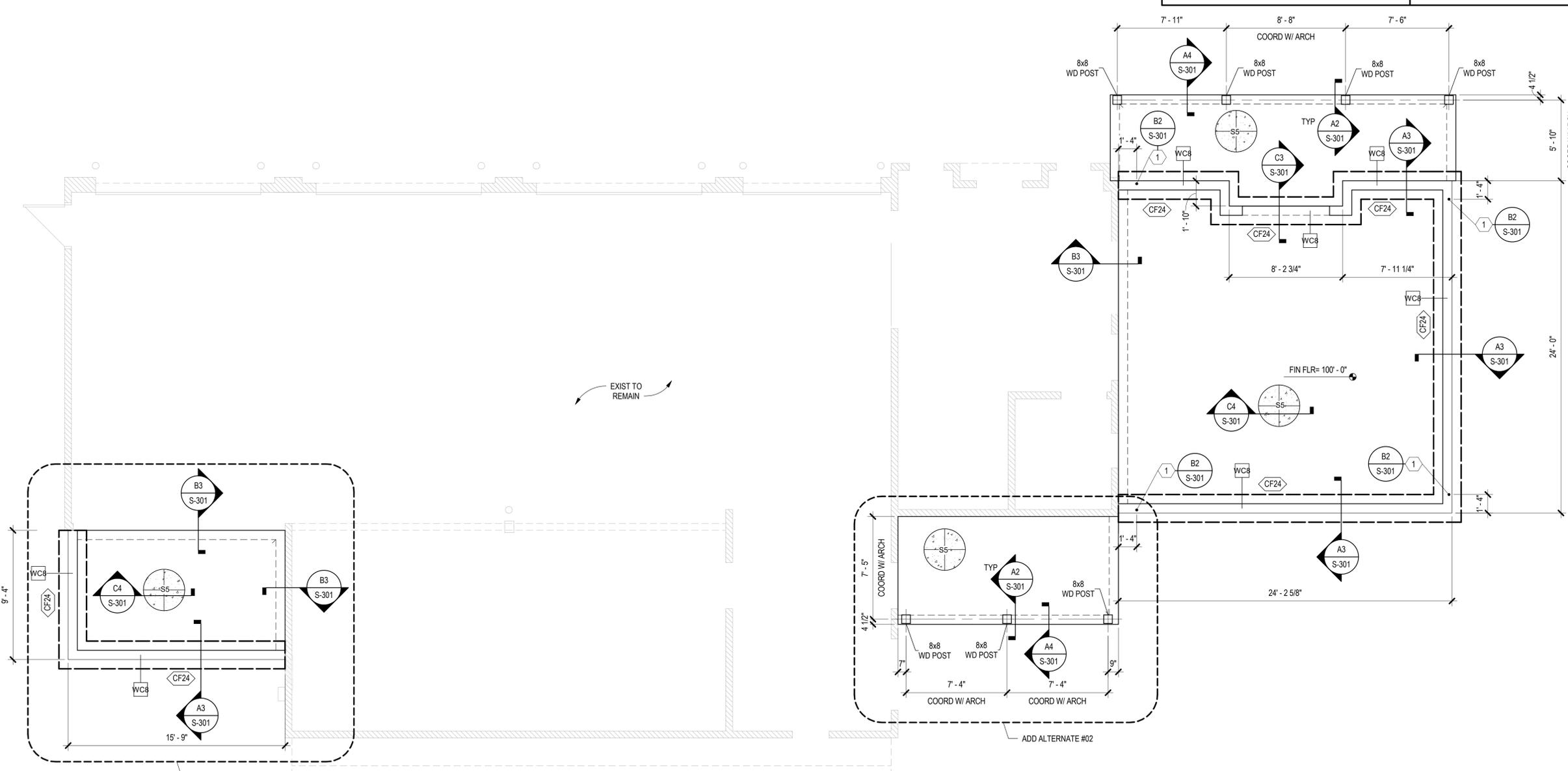
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SHEET TITLE:

FOUNDATION PLAN

SHEET NO:

S-101



A1 FOUNDATION PLAN
SCALE: 1/4" = 1'-0"

FILE NAME: S:\2018\Madrid Fire Station\Drawings\FOUNDATION PLAN
DATE PLOT: 11/01/18 10:27 AM

1 | 2 | 3 | 4 | 5

SHEET KEYNOTE	GENERAL SHEET NOTES
<p>1. 7/16" APA FIRE RATED OSB SHEATHING. ATTACH SHEATHING TO SUPPORTS WITH 10d NAILS AT 6" ON CENTER ALONG PANEL EDGES AND WITH 10d AT 12" ON CENTER IN REMAINING FIELD OF PANEL.</p> <p>2. MECHANICAL UNIT, COORDINATE EXACT SIZE AND LOCATION WITH MECHANICAL DRAWINGS.</p> <p>3. ROOF OPENING, COORDINATE EXACT SIZE AND LOCATION WITH ARCHITECTURAL AND MECHANICAL DRAWINGS.</p>	<p>1. NOTE TO ERECTOR: LATERAL STABILITY OF THE STEEL FRAME IS DEPENDENT UPON THE WOOD STUD WALLS. THE ERECTOR SHALL PROVIDE TEMPORARY BRACING OF THE STEEL FRAME IN ACCORDANCE WITH SECTION 7.10 OF THE AISC CODE OF STANDARD PRACTICES.</p> <p>2. DIMENSIONS ARE TO THE FACE OF WOOD STUDS, UNLESS NOTED OTHERWISE.</p> <p>3. EXISTING CONSTRUCTION IS PER AVAILABLE EXISTING DRAWINGS. ALL EXISTING CONSTRUCTION AND DIMENSIONS SHALL BE VERIFIED PRIOR TO CONSTRUCTION. SHOULD CONDITIONS VARY FROM THOSE SHOWN, CONTACT ENGINEER BEFORE PROCEEDING.</p> <p>4. SEE SHEET S-311 FOR TYPICAL ROOF FRAMING SECTIONS.</p> <p>5. ALL EXTERIOR WALLS TO BE SHEATHED W/ 7/16" OSB FIRE RATED SHEATHING. ATTACH TO SUPPORTS W/ #10 SELF-DRILLING SCREWS @ 12" OC.</p> <p>6. ALL EXTERIOR WALLS TO BE SHEATHED W/ 7/16" OSB FIRE RATED SHEATHING. ATTACH TO ALL SUPPORTS W/ #10 SELF-DRILLING SCREWS @ 12" OC.</p>



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MADRID, NEW MEXICO



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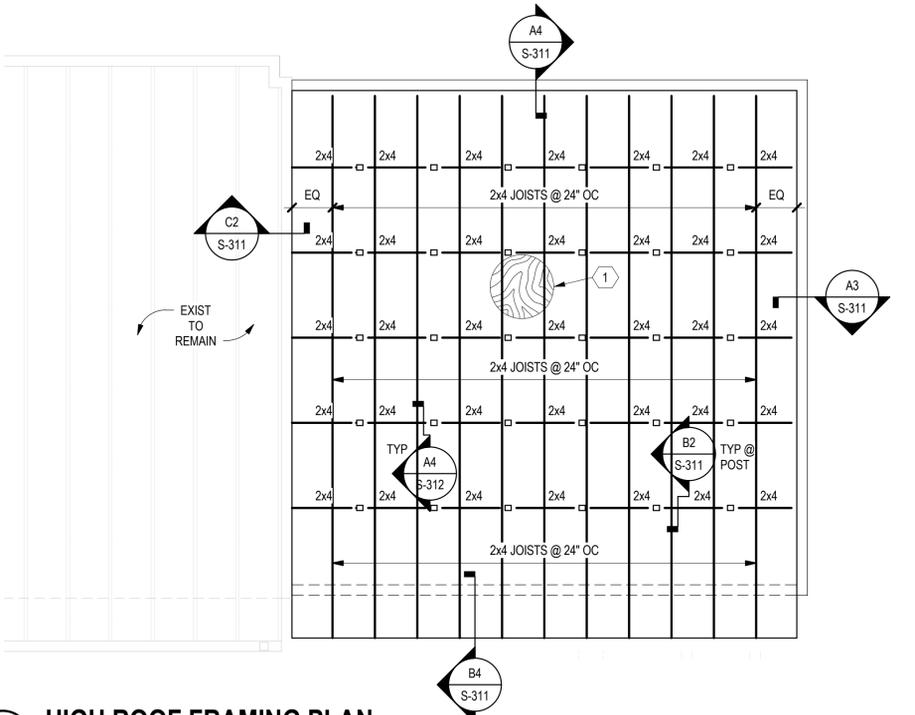
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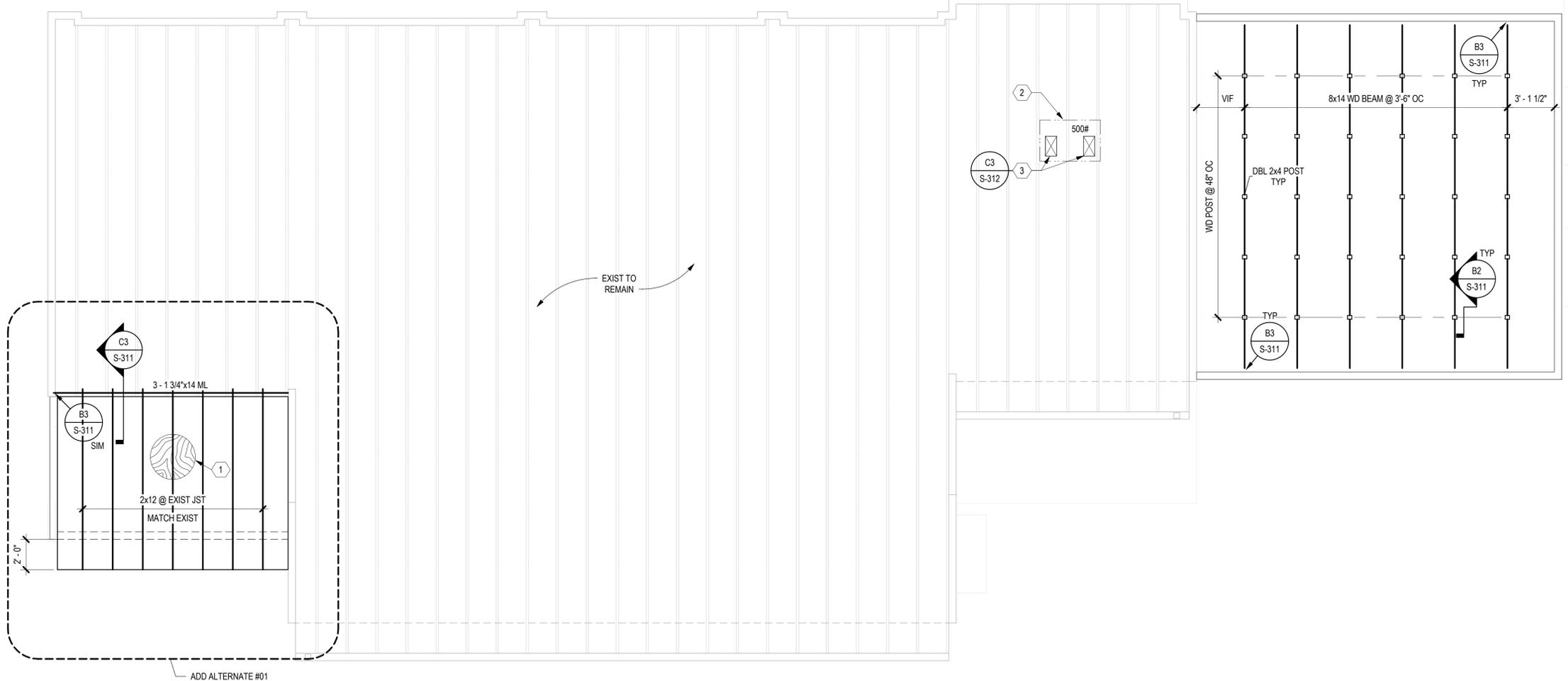
ROOF FRAMING PLAN

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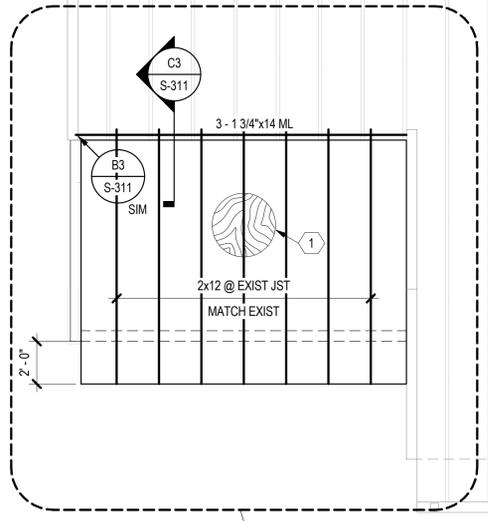
S-111



C1 HIGH ROOF FRAMING PLAN
SCALE: 1/4" = 1'-0"



A1 ROOF FRAMING PLAN
SCALE: 1/4" = 1'-0"



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SHEET KEYNOTE

- 7/16" APA FIRE RATED OSB SHEATHING. ATTACH SHEATHING TO SUPPORTS WITH 10d NAILS AT 6" ON CENTER ALONG PANEL EDGES AND WITH 10d NAILS AT 12" ON CENTER IN REMAINING FIELD OF PANEL.
- 3/4" PLYWOOD FLOOR SHEATHING. ATTACH SHEATHING TO SUPPORTS WITH 10d NAILS AT 6" ON CENTER ALONG PANEL EDGES AND WITH 10d NAILS AT 12" ON CENTER IN REMAINING FIELD OF PANEL.

GENERAL SHEET NOTES

- NOTE TO ERECTOR: LATERAL STABILITY OF THE STEEL FRAME IS DEPENDENT UPON THE WOOD STUD WALLS. THE ERECTOR SHALL PROVIDE TEMPORARY BRACING OF THE STEEL FRAME IN ACCORDANCE WITH SECTION 7.10 OF THE AISC CODE OF STANDARD PRACTICES.
- DIMENSIONS ARE TO THE FACE OF WOOD STUDS, UNLESS NOTED OTHERWISE.
- EXISTING CONSTRUCTION IS PER AVAILABLE EXISTING DRAWINGS. ALL EXISTING CONSTRUCTION AND DIMENSIONS SHALL BE VERIFIED PRIOR TO CONSTRUCTION. SHOULD CONDITIONS VARY FROM THOSE SHOWN, CONTACT ENGINEER BEFORE PROCEEDING.
- SEE SHEET S-311 FOR TYPICAL ROOF FRAMING SECTIONS.
- ALL EXTERIOR WALLS TO BE SHEATHED W/ 7/16" OSB FIRE RATED SHEATHING. ATTACH TO ALL SUPPORTS W/ #10 SELF-DRILLING SCREWS @ 12" OC.
- SEE SHEET S-312 FOR COLD-FORMED LINTEL SCHEDULE.



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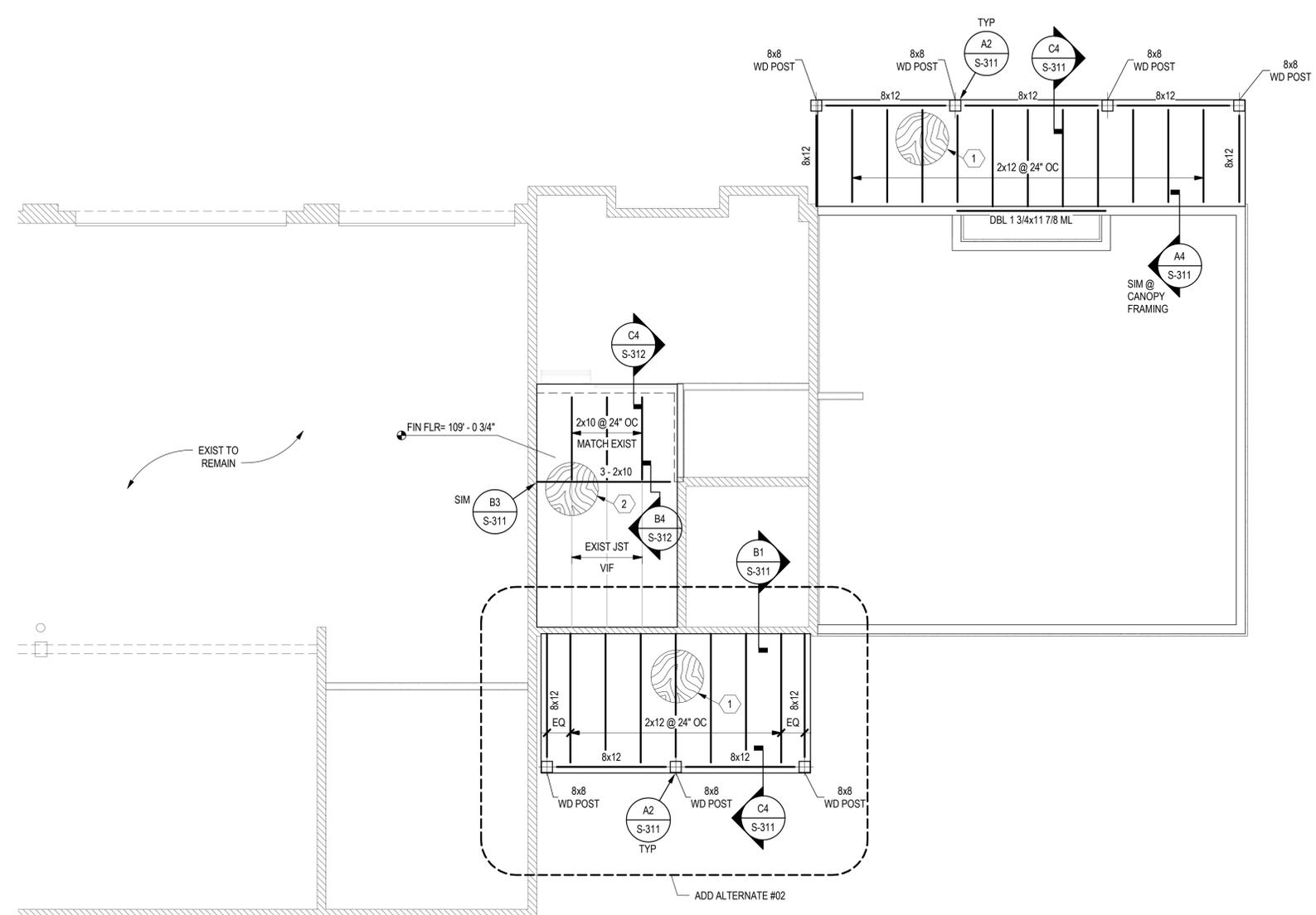
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PROJECT NUMBER: A18.04

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SHEET TITLE: MEZZANINE & CANOPY FRAMING PLAN

SHEET NO: S-112



A2 MEZZANINE & CANOPY FRAMING PLAN
SCALE: NTS

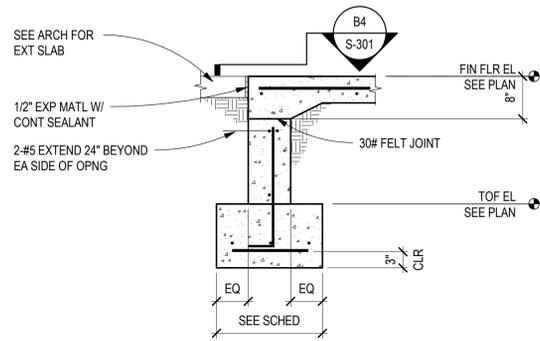
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DATE/TIME: 11/01/18 10:51 PM

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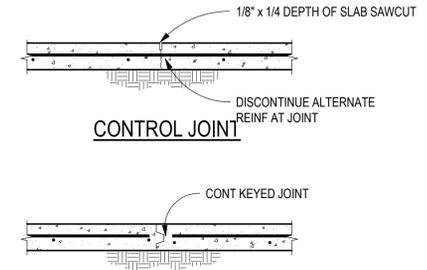
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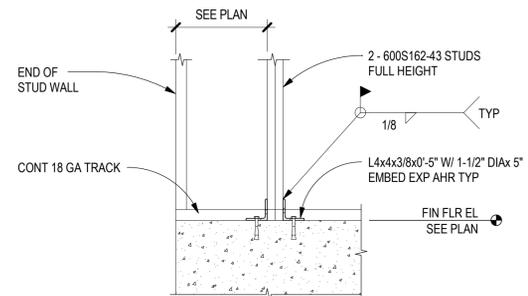


C3 **CONC STEMWALL AT OPNG**
SCALE: NTS

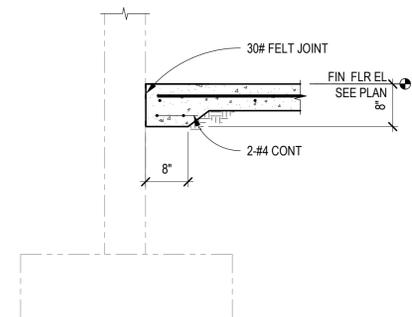
NOTE: AT CONTRACTOR'S OPTION A PLASTIC JOINT FORMER MAY BE INSTALLED INSTEAD OF THE SAWCUT



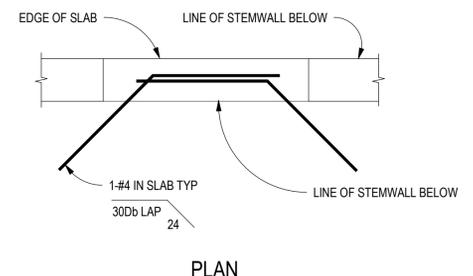
C4 **TYPICAL SLAB JOINT**
SCALE: NTS



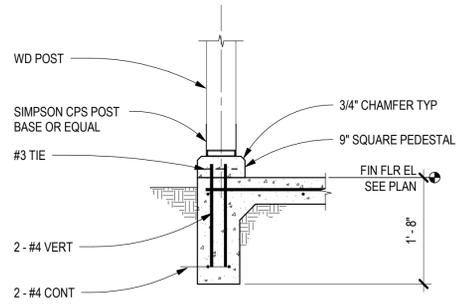
B2 **TIE DOWN DETAIL**
SCALE: NTS



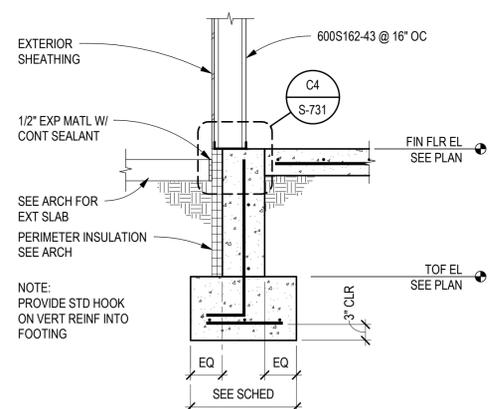
B3 **THICKENED SLAB AT EXISTING**
SCALE: NTS



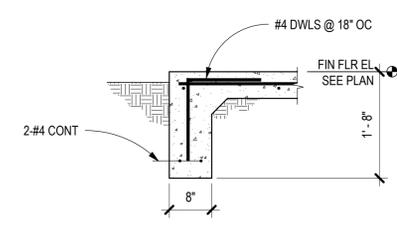
B4 **TYPICAL SLAB REINF AT OPNG**
SCALE: NTS



A2 **FOUNDATION SECTION**
SCALE: NTS



A3 **FOUNDATION SECTION**
SCALE: NTS



A4 **FOUNDATION SECTION**
SCALE: NTS



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PROJECT TITLE

SANTA FE COUNTY MADRID FIRE STATION

100% CONSTRUCTION DOCUMENTS
MADRID
NEW MEXICO



REVISIONS:

MK	DATE	DESCRIPTION

DRAWN BY: PS **CHECKED BY:** GB

PROJECT NUMBER: A18.04

DATE: 11-01-18

SHEET TITLE: FOUNDATION SECTIONS AND DETAILS

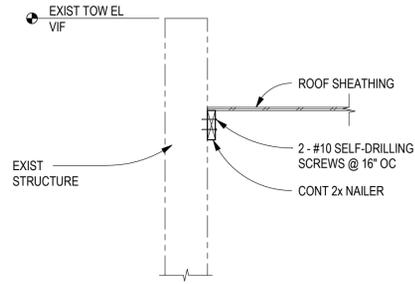
FOUNDATION SECTIONS AND DETAILS

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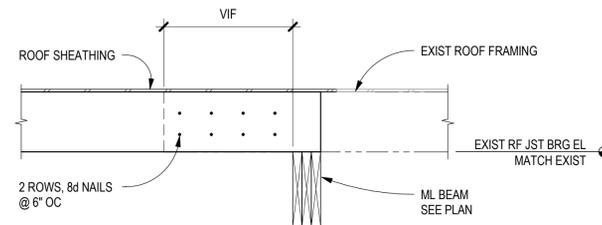
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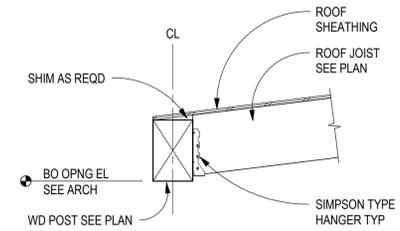
NAILING SCHEDULE	
CONNECTION	NAILING
JOIST TO SILL OR GIRDER, TOENAIL	3-8D
BRIDGING TO JOIST, TOENAIL EACH END	2-8D
SOLE PLATE TO JOIST OR BLOCKING, FACE NAIL	16D AT 16" OC
TOP PLATE TO STUD, END NAIL	2-16D
STUD TO SOLE PLATE	4-8. TOENAIL OR 2-16D, END NAIL
DOUBLE STUDS, FACE NAIL	16D 1T 24" OC
DOUBLE TOP PLATES, FACE NAIL	16D AT 16" OC
TOP PLATES, LAP AND INTERSECTIONS, FACE NAIL	2-16D
CONTINUOUS HEADER, TWO PIECES	16D AT 16" OC ALONG EACH EDGE
CONTINUOUS HEADER TO STUD, TOENAIL	4-8D
BUILT-UP CORNER STUDS	16D AT 24" OC
BUILT-UP GIRDER AND BEAM	20D AT 32" OC TOP AND BOT AND STAGGERED 2-20D AT ENDS AND AT EACH SPLICE



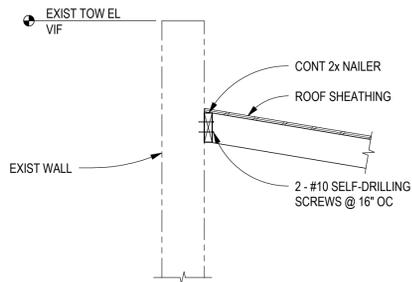
C2 ROOF FRAMING SECTION
SCALE: NTS



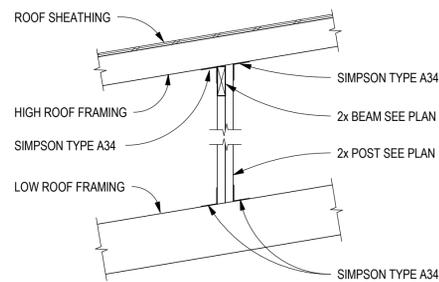
C3 ROOF FRAMING SECTION
SCALE: NTS



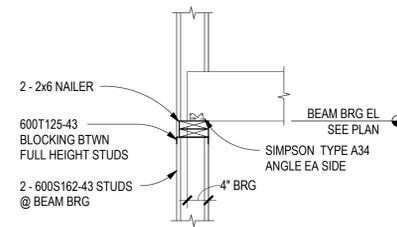
C4 ROOF FRAMING SECTION
SCALE: NTS



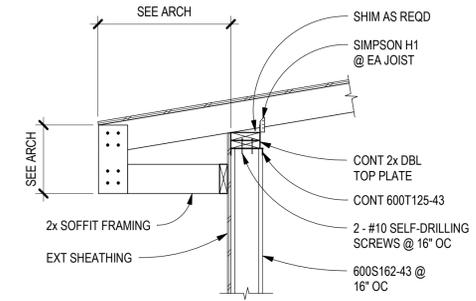
B1 ROOF FRAMING SECTION
SCALE: NTS



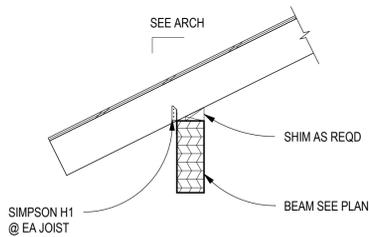
B2 ROOF FRAMING SECTION
SCALE: NTS



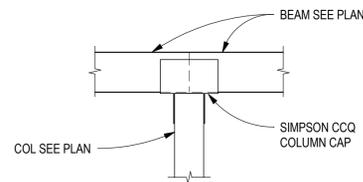
B3 FRAMING DETAIL
SCALE: NTS



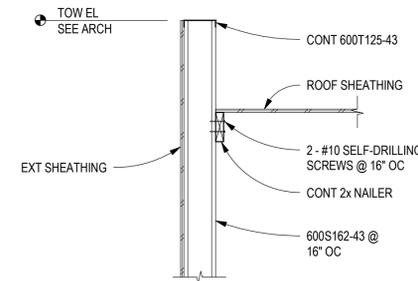
B4 ROOF FRAMING SECTION
SCALE: NTS



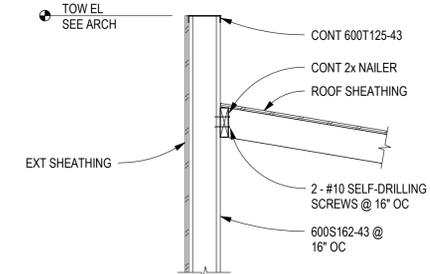
A1 ROOF CONNECTION DETAIL
SCALE: NTS



A2 FRAMING DETAIL
SCALE: NTS



A3 ROOF FRAMING SECTION
SCALE: NTS



A4 ROOF FRAMING SECTION
SCALE: NTS



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PROJECT TITLE

**SANTA FE
COUNTY MADRID
FIRE STATION**

**100% CONSTRUCTION
DOCUMENTS**
MADRID
NEW MEXICO



Chavez-Grievos
CONSULTING ENGINEERS, i.c.
4700 Lincoln Road NE, Suite 102, Albuquerque, NM 87110
505-344-4080 505-343-8759 (fax)

REVISIONS:

MK	DATE	DESCRIPTION

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PROJECT NUMBER:
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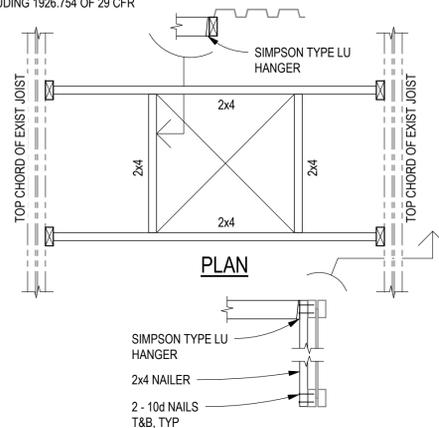
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11-01-18

SHEET TITLE:
**ROOF FRAMING
SECTIONS**

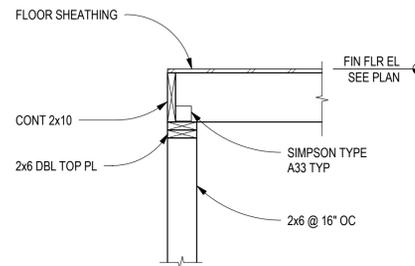
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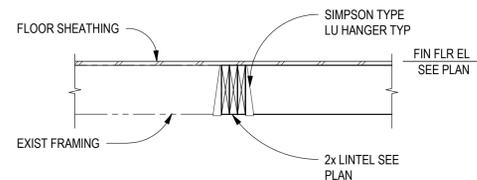
NOTE: INSTALL OPENINGS IN COMPLIANCE WITH OSHA REQUIREMENTS INCLUDING 1926.754 OF 29 CFR



C3 TYPICAL EXIST ROOF OPENING > 12"
SCALE: NTS

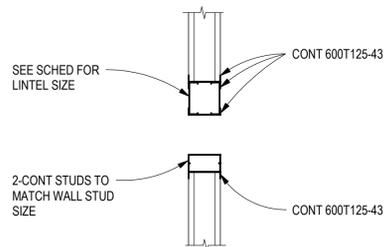


C4 FRAMING SECTION
SCALE: NTS

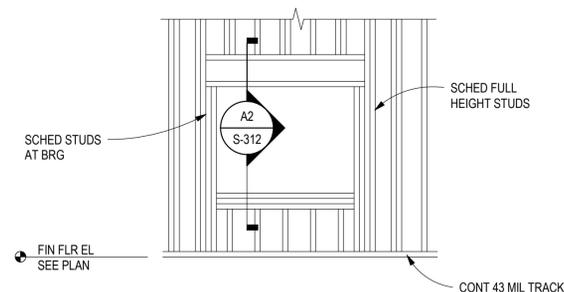


B4 FRAMING SECTION
SCALE: NTS

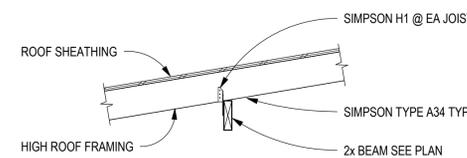
SPAN	LIGHTGAGE LINTEL SCHEDULE		
	SIZE	STUDS AT BEARING	FULL HEIGHT STUDS
0'-0" - 4'-0"	2-600S162-43	1-600S162-43	1-600S162-43
4'-1" - 8'-0"	2-600S162-43	2-600S162-43	2-600S162-43
8'-1" - 12'-0"	3-600S162-43	2-600S162-43	2-600S162-43
12'-1" - 16'-0"	3-600S162-54	2-600S162-54	3-600S162-43



A2 TYPICAL LINTEL SECTION
SCALE: NTS



A3 COLD-FORMED LINTEL SCHEDULE
SCALE: NTS



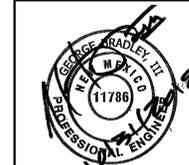
A4 ROOF FRAMING SECTION
SCALE: NTS

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PROJECT TITLE

**SANTA FE
COUNTY MADRID
FIRE STATION**

**100% CONSTRUCTION
DOCUMENTS**
MADRID
NEW MEXICO

CG
Chavez-Grievos
CONSULTING ENGINEERS, INC.
4700 Lincoln Road NE, Suite 102, Albuquerque, NM 87109
505-344-4080 505-343-8759 (fax)

REVISIONS:

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DRAWN BY: PS

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PROJECT NUMBER:

A18.04

DATE:

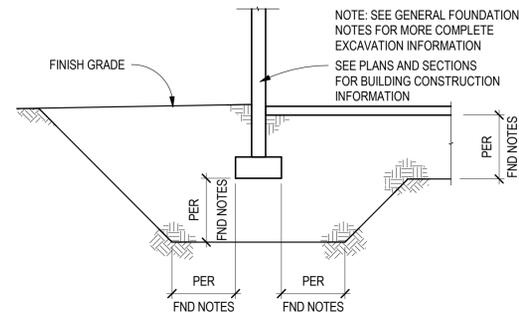
11-01-18

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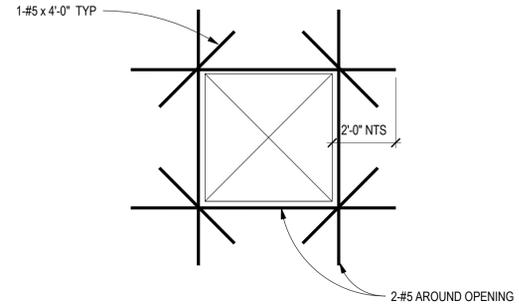
**FRAMING
SECTIONS AND
DETAILS**

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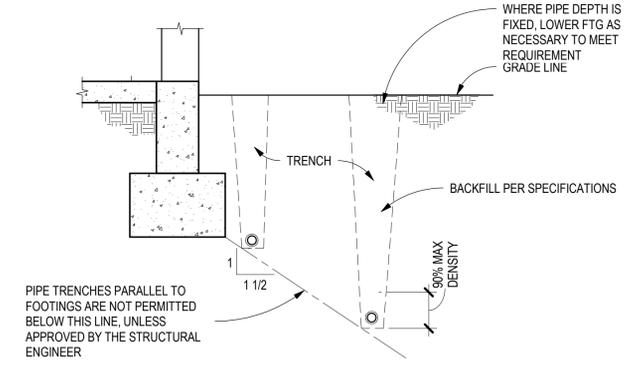
S-312



C2 TYPICAL FND EXCAVATION DETAIL
SCALE: NTS



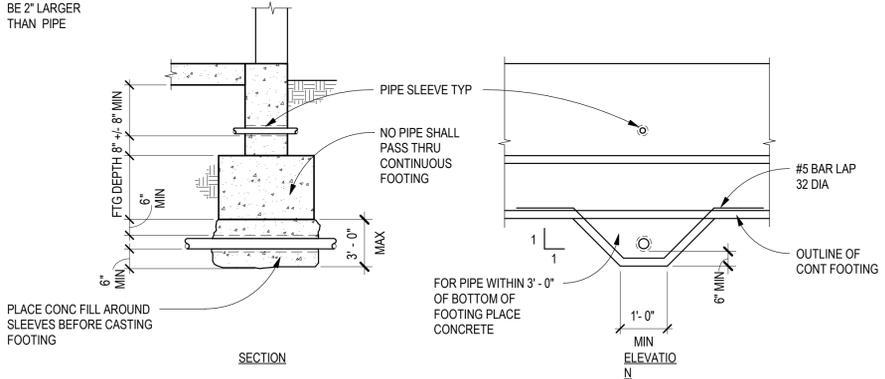
C4 TYPICAL OPNG IN CONC WALL DETAIL
SCALE: NTS



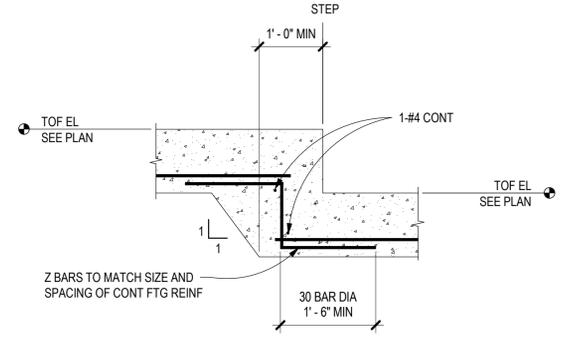
PIPE AND TRENCHES PARALLEL TO FOOTINGS

- NOTES:
1. FOR PIPES MORE THAN 3' - 0" BELOW BOTTOM OF FTG USE COMPACTED FILL PER SPECIFICATIONS.
 2. TRENCHES AND PIPES ARE NOT PERMITTED BELOW COLUMN FTGS

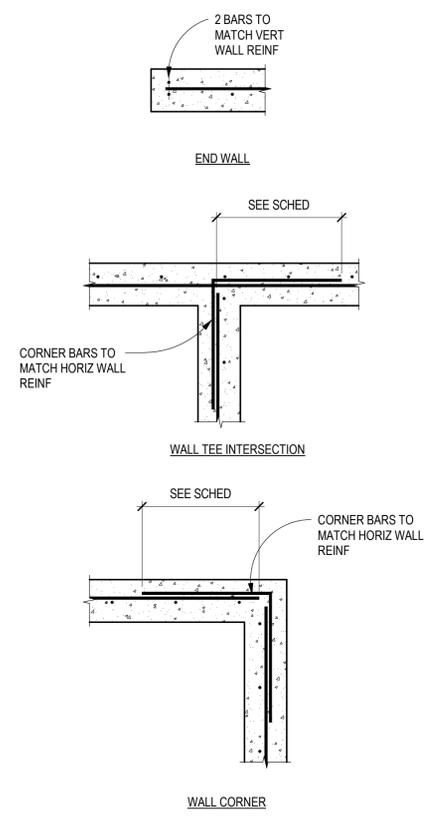
NOTE: ALL PIPE SLEEVES SHALL BE 2" LARGER THAN PIPE



PIPE AND TRENCHES TRANSVERSE TO FOOTINGS

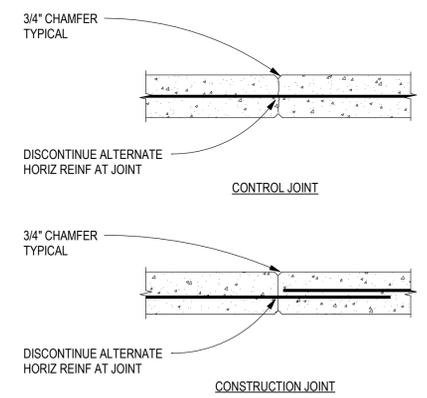


B3 TYPICAL STEPPED FOOTING DETAIL
SCALE: NTS



A4 TYPICAL SINGLE MAT WALL REINF
SCALE: NTS

NOTE: REINFORCING SHOWN ON FOUNDATION SECTIONS AND SPECIFICALLY REFERENCED DETAILS SHALL TAKE GOVERN OVER REINFORCING IN STANDARD DETAILS.



A3 TYPICAL WALL JOINT DETAIL
SCALE: NTS



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PROJECT TITLE

SANTA FE COUNTY MADRID FIRE STATION

100% CONSTRUCTION DOCUMENTS
MADRID NEW MEXICO



REVISIONS:

MK	DATE	DESCRIPTION

DRAWN BY: PS CHECKED BY: GB

PROJECT NUMBER: A18.04

DATE: 11-01-18

SHEET TITLE: TYPICAL CONCRETE DETAILS

SHEET NO:

S-711

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PROJECT TITLE

SANTA FE
COUNTY MADRID
FIRE STATION

100% CONSTRUCTION
DOCUMENTS
MADRID
NEW MEXICO



REVISIONS:

MK	DATE	DESCRIPTION

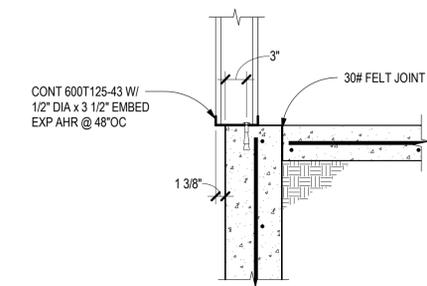
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PROJECT NUMBER:
A18.04

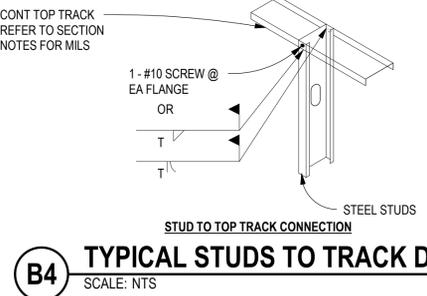
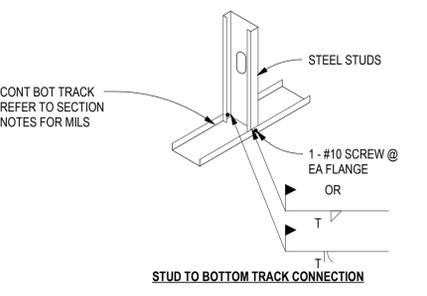
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SHEET TITLE:
TYPICAL COLD-FORMED
DETAILS

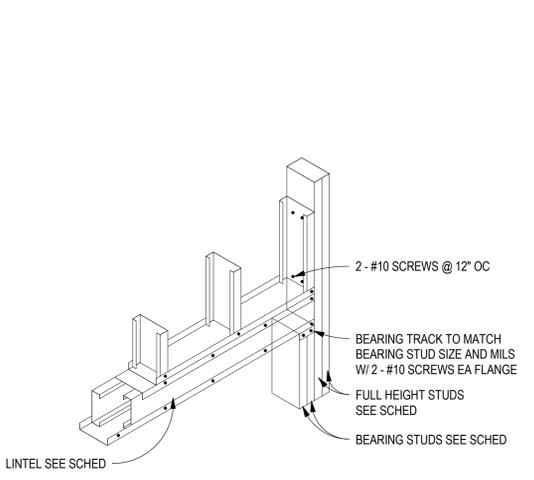
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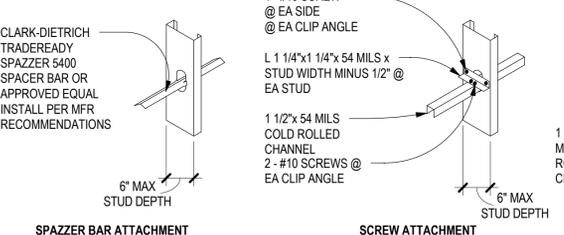
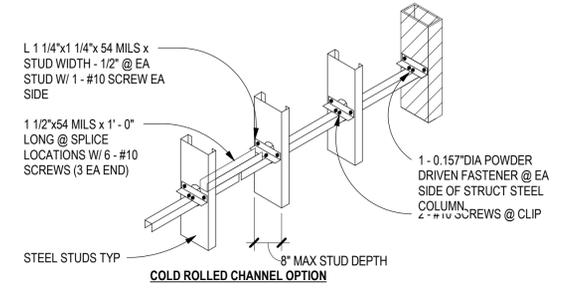
C4 TYPICAL STUDS AT STEMWALL
SCALE: 1" = 1'-0"



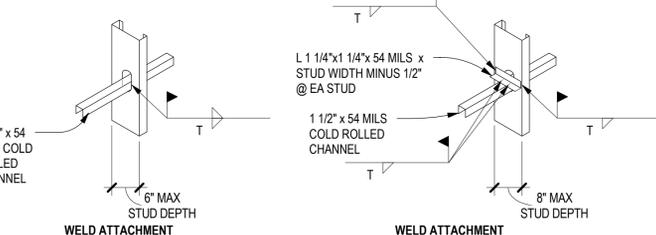
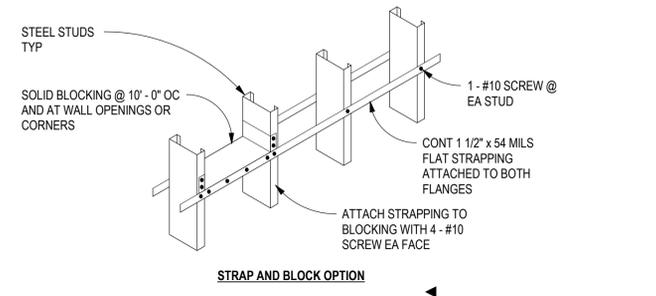
B4 TYPICAL STUDS TO TRACK DETAIL
SCALE: NTS



B1 TYPICAL HEADER / JAMB DETAIL
SCALE: NTS

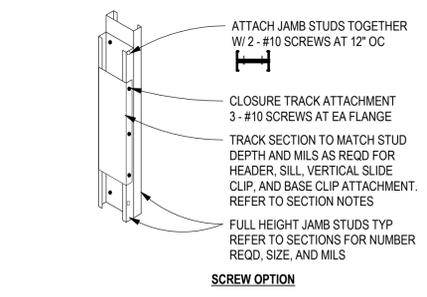


B2 TYPICAL BRIDGING DETAILS
SCALE: NTS

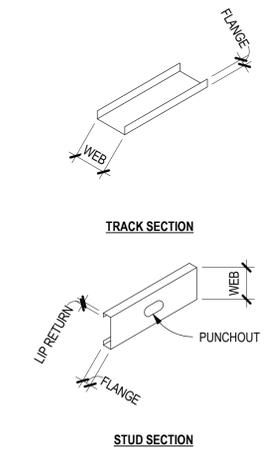
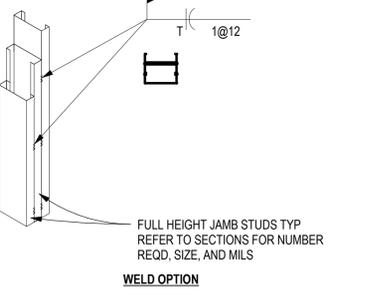
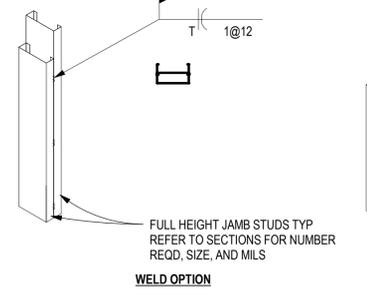
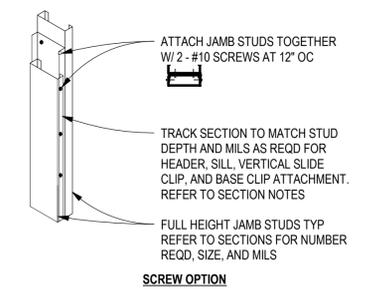


B2 TYPICAL BRIDGING DETAILS
SCALE: NTS

B1 TYPICAL HEADER / JAMB DETAIL
SCALE: NTS



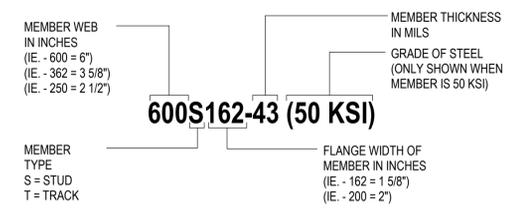
A1 TYPICAL STUD JAMB ATTACHMENT DETAILS
SCALE: NTS



A4 TYPICAL COLD-FORMED MEMBER DESIGNATION
SCALE: NTS

MILS TO GAGE CONVERSION CHART

MILS	GAGE
33 MILS	20 GAGE
43 MILS	18 GAGE
54 MILS	16 GAGE
68 MILS	14 GAGE
97 MILS	12 GAGE



FILE NAME: C:\WORK\308\Market Pk\308\CHAMBERS\308 MADRID FIRE STATION.dwg
DATE/TIME: 11/01/18 10:51 PM

- ### KEYED NOTES
- EXISTING FIRE STATION BUILDING TO REMAIN. SEE DEMOLITION FLOOR PLAN.
 - EXISTING CONCRETE PAVING TO REMAIN.
 - EXISTING GRAVEL DRIVE TO REMAIN.
 - EXISTING BOLLARD TO REMAIN.
 - EXISTING PIPE EXTENSION FOR DRAINAGE (FROM METAL DOWNSPOUT) TO REMAIN.
 - EXISTING METAL DOWNSPOUT TO REMAIN.
 - EXISTING CONCRETE STOOP/ STEPS TO REMAIN.
 - DEMO AND PREP AS REQUIRED FOR NEW SEEPAGE PIT. FIELD VERIFY DEMO WORK CLEARS EXISTING WATER LINE TO REMAIN.
 - DEMO AND PREP AS REQUIRED FOR NEW SEEPAGE PIT SEWER LINE. REMOVE AND DISPOSE OF EXISTING PIPE EXTENSION FOR DRAINAGE (FROM METAL DOWNSPOUT).
 - GENERAL CONTRACTOR TO REMOVE EXISTING WATER TANK CONCRETE FOOTINGS, SUPPORT STRUCTURE AND TANK.
 - REMOVE AND DISPOSE OF EXISTING CONCRETE RAMP.
 - REMOVE AND DISPOSE OF PORTION OF EXISTING CONCRETE PAVING AS REQUIRED FOR NEW WORK.
 - DEMO AND PREP AS REQUIRED FOR NEW ADDITION.
 - ADDITIVE ALTERNATE #1: EXTEND BAY 1.
 - ADDITIVE ALTERNATE #2: NEW PORTAL ADDITION.
 - EXISTING GRAVEL ROAD.
 - REMOVE AND RELOCATE EXISTING FIRE HYDRANT. SEE SITE PLAN FOR NEW LOCATION.
 - (7) EXISTING PARKING SPACES (GRAVEL) TO REMAIN.
 - EXISTING PROPANE TANK TO REMAIN.
 - EXISTING PROPANE GAS LINE TO REMAIN. PROTECT DURING DEMOLITION.
 - APPROXIMATE LOCATION OF EXISTING SEPTIC TANK. FIELD VERIFY.
 - APPROXIMATE LOCATION OF EXISTING LEACH FIELD TO BE PREPPED AS REQUIRED FOR NEW ADDITION. FIELD VERIFY.
 - APPROXIMATE LOCATION AND ROUTE OF EXISTING WATER LINE. FIELD VERIFY. PROTECT DURING DEMOLITION AND NEW CONSTRUCTION.
 - APPROXIMATE LOCATION OF EXISTING D-BOX TO REMAIN.
 - EXISTING SWALE TO DRAIN LOCATION TO REMAIN.
 - EXISTING TELEPHONE PEDESTAL TO REMAIN.



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PROJECT TITLE

**SANTA FE
COUNTY
MADRID
FIRE STATION**

**MADRID
NEW MEXICO**

REVISIONS:

MK	DATE	DESCRIPTION

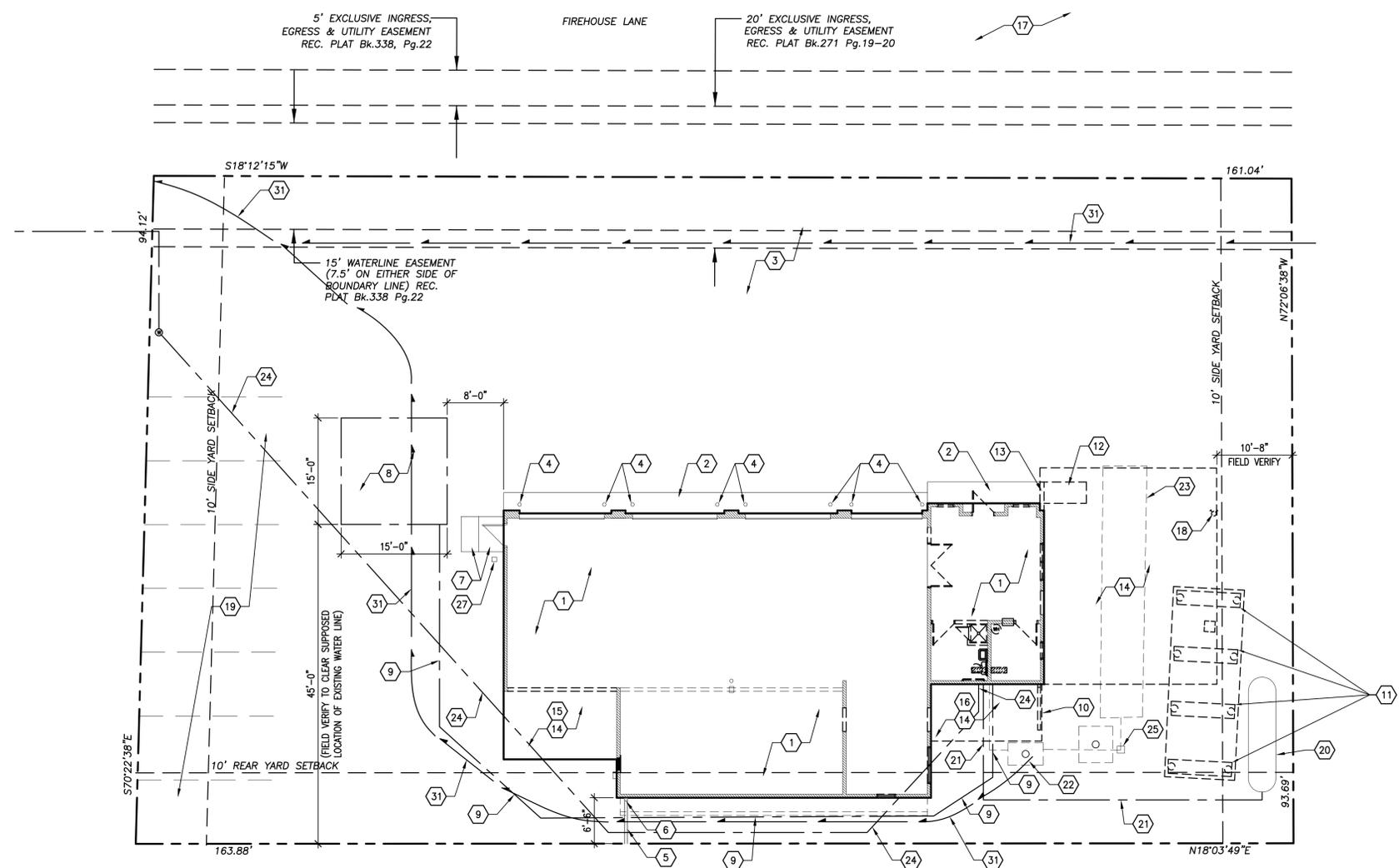
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PROJECT NUMBER:
A18.04

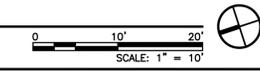
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11/01/2018

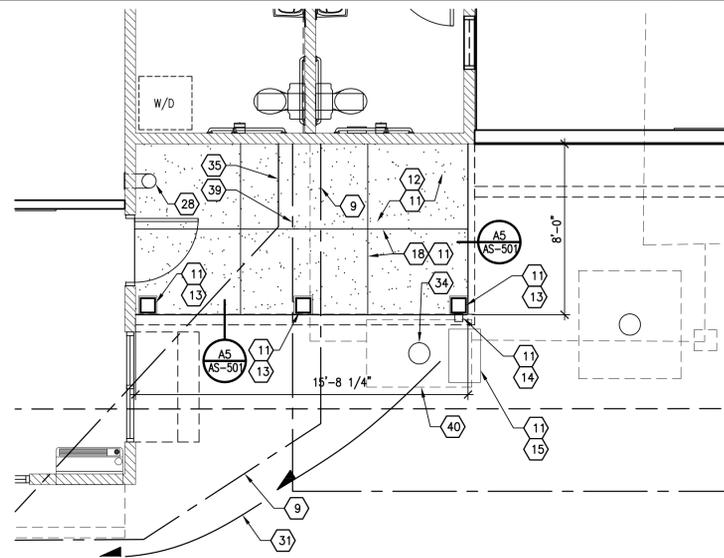
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**SITE DEMOLITION
PLAN**

SHEET NO:
ASD-101

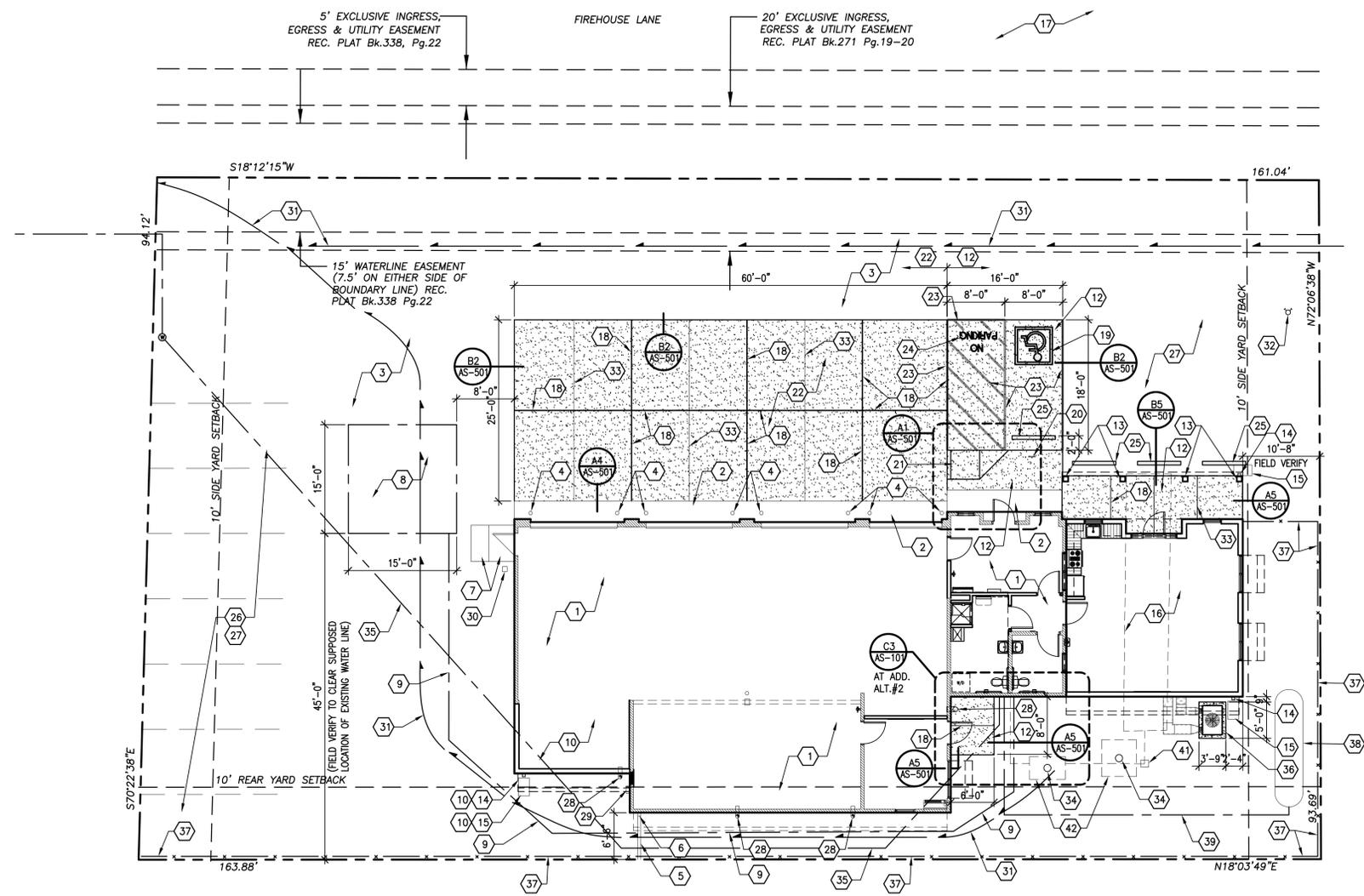


A1 SITE DEMOLITION PLAN

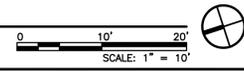




**C3 ENLARGED SITE PLAN
ADDITIVE ALTERNATE #2**



A1 SITE PLAN



GENERAL NOTES

A. GENERAL CONTRACTOR TO HIRE LANDSCAPE ARCHITECT/ CONTRACTOR TO DESIGN AND INSTALL LANDSCAPING PER COUNTY OF SANTA FE REQUIREMENTS.

KEYED NOTES

1. EXISTING FIRE STATION BUILDING TO REMAIN.
2. EXISTING CONCRETE PAVING TO REMAIN.
3. EXISTING GRAVEL DRIVE TO REMAIN.
4. EXISTING BOLLARD TO REMAIN. PAINT.
5. EXISTING PIPE EXTENSION FOR DRAINAGE (FROM METAL DOWNSPOUT) TO REMAIN.
6. EXISTING METAL DOWNSPOUT TO REMAIN.
7. EXISTING CONCRETE STOOP/ STEPS TO REMAIN.
8. NEW SEEPAGE PIT. FIELD VERIFY SEEPAGE PIT CLEARS EXISTING WATER LINE TO REMAIN.
9. NEW SEEPAGE PIT 4" PVC SEWER LINE.
10. ADDITIVE ALTERNATE #1: EXTEND BAY 1.
11. ADDITIVE ALTERNATE #2: NEW PORTAL ADDITION.
12. NEW CONCRETE PAVING.
13. NEW PORTAL WOOD POST WITH SIMPSON CPS BASE AND BASE PLATE TO SIT ON 10 1/2"x10 1/2"x4" HIGH CONCRETE BASE. ORNAMENTAL WOOD TIES (OWT) 8X8 LAREDO SUNSET FAUX POST BASE PLATE BY OZCO BUILDING PRODUCTS, (469) 916-7503 MAIN NUMBER, ITEM NUMBER: 56691 (8X8-FPB-LS).
14. NEW METAL DOWNSPOUT.
15. NEW CONCRETE SPLASHBLOCK. SEE DETAIL B3/AS-501.
16. NEW BUILDING ADDITION.
17. EXISTING GRAVEL ROAD TO REMAIN.
18. NEW EXPANSION JOINT AS PER DETAIL B1/AS-501.
19. NEW ACCESSIBLE PARKING PAINTED SYMBOL. SEE DETAIL A3/AS-501.
20. NEW ACCESSIBLE PARKING SIGN. SEE A2/AS-501.
21. NEW ACCESSIBLE CONCRETE RAMP. SEE A1/AS-501.
22. NEW CONCRETE DRIVE PAD FOR TRUCK BAYS. 8" CONCRETE SLAB WITH 6" BASE COURSE ON COMPACTED SUB-GRADE. SCARIFY EXPOSED SOIL A MINIMUM OF 12" AND RE-COMPACT. 1/2" EXPANSION JOINTS @ 16'-0" O.C. (FIELD VERIFY TO ALIGN WITH COLUMN BETWEEN DOORS). SEAL EXPANSION JOINTS WITH SILICONE SEALANT.
23. NEW 4" PARKING STRIPING WITH TRAFFIC GRADE PAINT AS SHOWN.
24. NEW 2" TRAFFIC GRADE PAINTED LETTERING TO READ "NO PARKING".
25. NEW CONCRETE PARKING BUMPER. SECURE IN CONCRETE PAD WITH #4 REBAR SET IN CONCRETE.
26. (7) EXISTING PARKING SPACES (GRAVEL) TO REMAIN.
27. EXISTING GRAVEL PAVING TO REMAIN.
28. EXHAUST PORTS. SEE MECHANICAL.
29. ELECTRICAL METER. SEE ELECTRICAL.
30. EXISTING TELEPHONE PEDESTAL TO REMAIN.
31. EXISTING SWALE TO DRAIN LOCATION TO REMAIN.
32. NEW LOCATION OF FIRE HYDRANT. COORDINATE WITH FIRE DEPARTMENT CHIEF.
33. NEW CONTROL JOINT AS PER DETAIL B1/AS-501.
34. EXISTING SEPTIC TANK LID.
35. SUPPOSED LOCATION OF EXISTING WATER LINE (FIELD VERIFY).
36. MECHANICAL UNIT WITH CONCRETE PAD (TURNDOWN EDGES SEE DETAIL B2/AS-501). VERIFY WITH MANUFACTURER REQUIREMENTS FOR CONCRETE PAD SIZE AND LOCATION.
37. NEW WOOD PICKET FENCE. 4X4 WOOD POSTS @ 8'-0" O.C. WITH 2X RAILS (3) AND WOOD PICKET FENCE VERTICALS (PROVIDE STAIN AND SEALER AS APPROVED BY ARCHITECT). ALL WOOD TO BE PRESSURE TREATED CEDAR WOOD. STAIN AND SEALER COATED. SEE SECTION C3/AS-501.
38. EXISTING PROPANE TANK TO REMAIN.
39. EXISTING PROPANE GAS LINE TO REMAIN. PROTECT DURING NEW CONSTRUCTION.
40. EXISTING SEPTIC TANK TO REMAIN. FIELD VERIFY ADDITIVE ALTERNATE #2 PORTAL ADDITION DOES NOT INTERFERE WITH EXISTING SEPTIC TANK LOCATION. NOTIFY ARCHITECT OF ANY DISCREPANCIES.
41. EXISTING D-BOX TO REMAIN.
42. EXISTING SEPTIC TANK TO REMAIN.

PARKING CALCULATIONS

OFFICE AREA (INCLUDES KITCHENETTE, TRAINING ROOM, EXERCISE ROOM AND OFFICE):
 1 SPACE PER 200 SQUARE FEET OF NET LEASABLE AREA ON GROUND FLOOR.
 REQUIRED STANDARD PARKING (832/200)= 4

WAREHOUSE AREA (TRUCK PARKING GARAGE):
 1 SPACE PER 2,000 SQUARE FEET OF NET LEASABLE AREA.
 REQUIRED STANDARD PARKING (2,187/2000)= 2

TOTAL REQUIRED STANDARD PARKING: 6
 TOTAL PROVIDED STANDARD PARKING: 10 (7 EXISTING, 3 NEW)

TOTAL REQUIRED DESIGNATED ACCESSIBLE PARKING: 1
 TOTAL PROVIDED DESIGNATED ACCESSIBLE PARKING: 1



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CONSULTANT

PROJECT TITLE

**SANTA FE
 COUNTY
 MADRID
 FIRE STATION**

**MADRID
 NEW MEXICO**

REVISIONS:

NO.	DATE	DESCRIPTION

MK DATE DESCRIPTION

DRAWN BY: JS CHECKED BY: JL

PROJECT NUMBER:

A18.04

DATE:

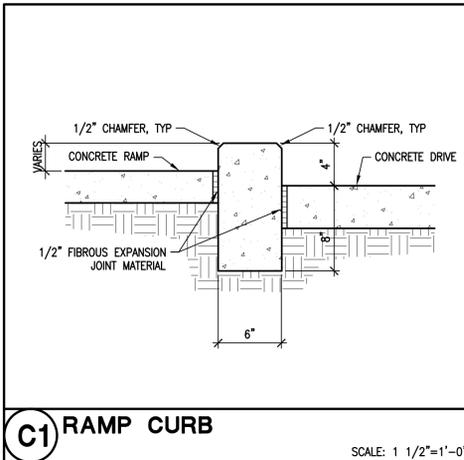
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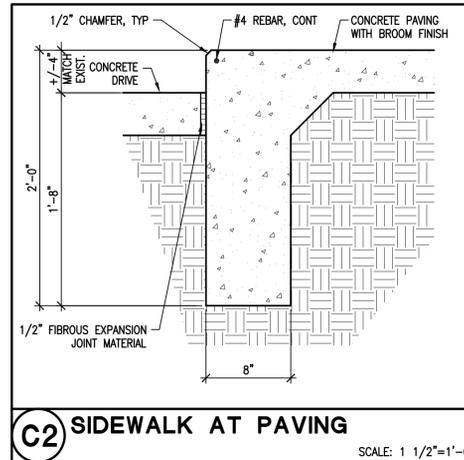
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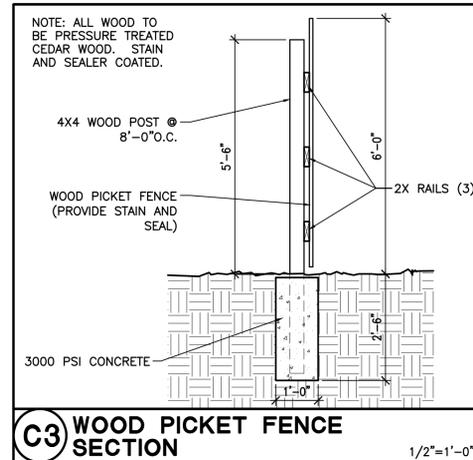
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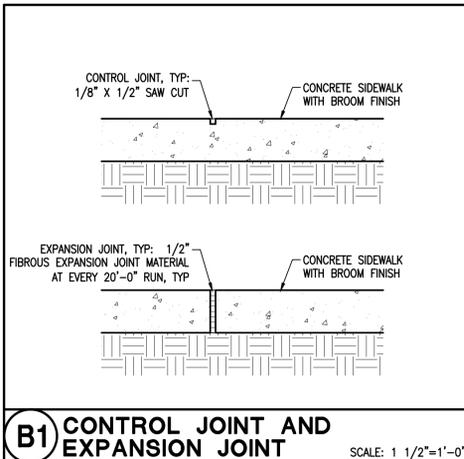
C1 RAMP CURB
SCALE: 1 1/2"=1'-0"



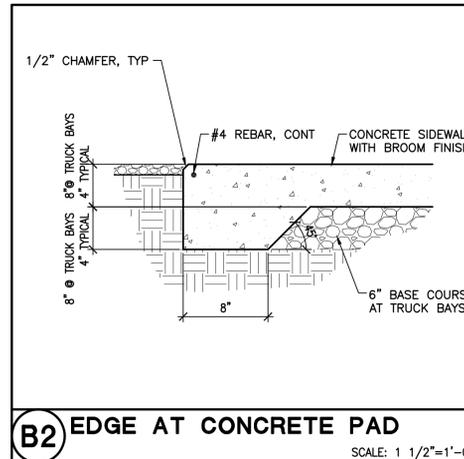
C2 SIDEWALK AT PAVING
SCALE: 1 1/2"=1'-0"



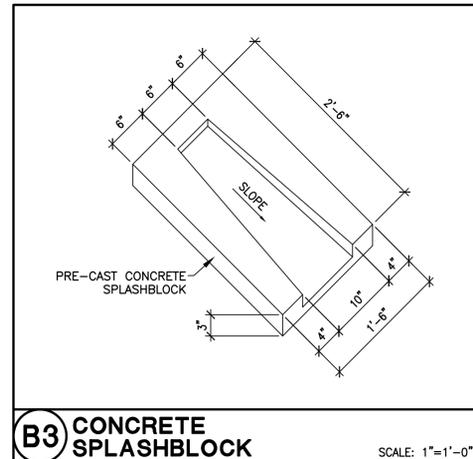
C3 WOOD PICKET FENCE SECTION
SCALE: 1/2"=1'-0"



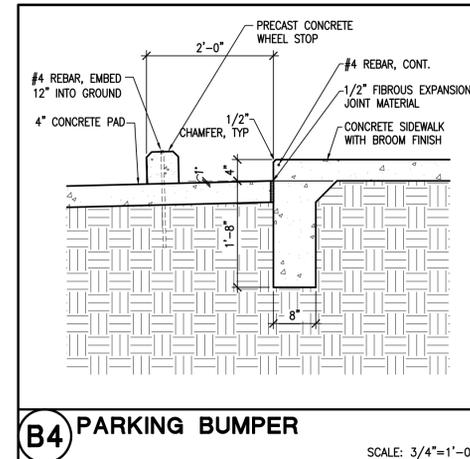
B1 CONTROL JOINT AND EXPANSION JOINT
SCALE: 1 1/2"=1'-0"



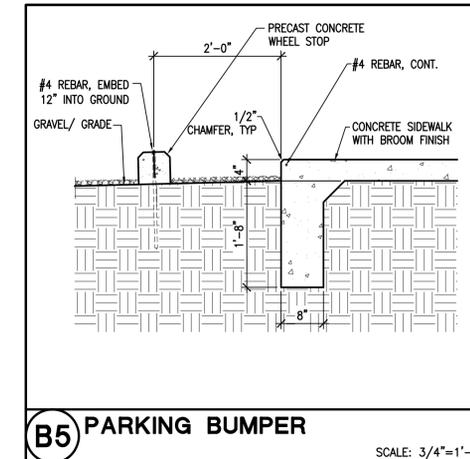
B2 EDGE AT CONCRETE PAD
SCALE: 1 1/2"=1'-0"



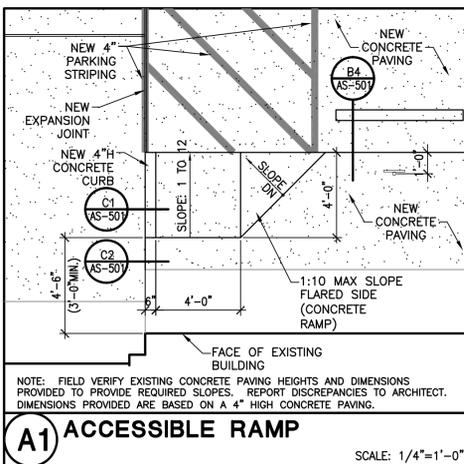
B3 CONCRETE SPLASHBLOCK
SCALE: 1"=1'-0"



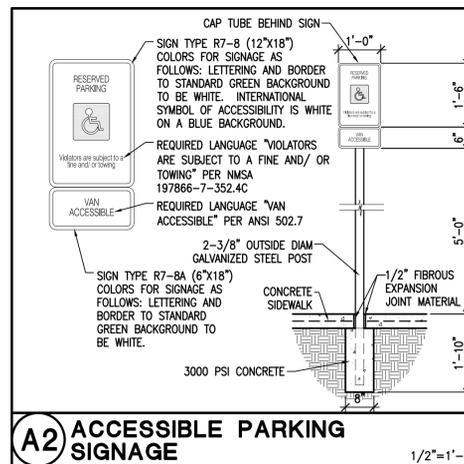
B4 PARKING BUMPER
SCALE: 3/4"=1'-0"



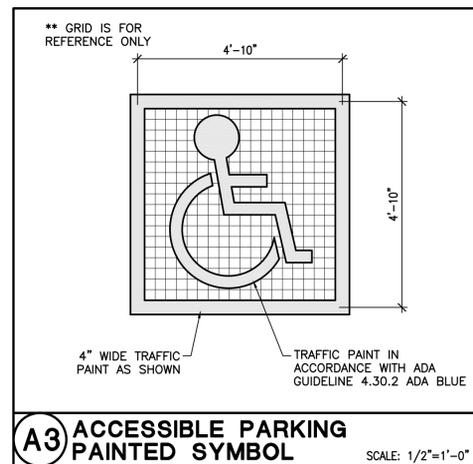
B5 PARKING BUMPER
SCALE: 3/4"=1'-0"



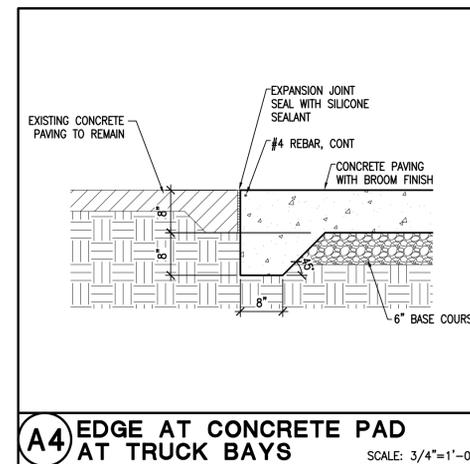
A1 ACCESSIBLE RAMP
SCALE: 1/4"=1'-0"



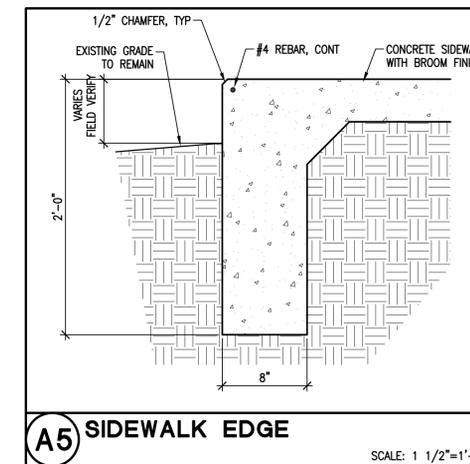
A2 ACCESSIBLE PARKING SIGNAGE
SCALE: 1/2"=1'-0"



A3 ACCESSIBLE PARKING PAINTED SYMBOL
SCALE: 1/2"=1'-0"



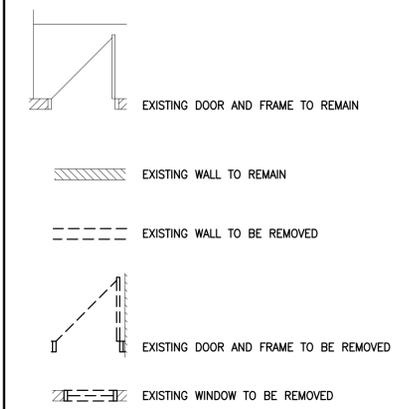
A4 EDGE AT CONCRETE PAD AT TRUCK BAYS
SCALE: 3/4"=1'-0"



A5 SIDEWALK EDGE
SCALE: 1 1/2"=1'-0"

NOTE: FIELD VERIFY EXISTING CONCRETE PAVING HEIGHTS AND DIMENSIONS PROVIDED TO PROVIDE REQUIRED SLOPES. REPORT DISCREPANCIES TO ARCHITECT. DIMENSIONS PROVIDED ARE BASED ON A 4" HIGH CONCRETE PAVING.

LEGEND



KEYED NOTES

1. REMOVE AND DISPOSE OF EXISTING WALL.
2. REMOVE AND DISPOSE OF PORTION OF EXISTING WALL AS REQUIRED FOR NEW WORK.
3. REMOVE AND DISPOSE OF EXISTING DOOR AND FRAME.
4. REMOVE AND DISPOSE OF EXISTING WINDOW.
5. REMOVE AND DISPOSE OF SHOWER.
6. REMOVE AND DISPOSE OF EXISTING CONCRETE FLOOR AS REQUIRED FOR NEW PLUMBING TO NEW TOILET ROOMS.
7. REMOVE AND DISPOSE OF EXISTING PLUMBING FIXTURES AND TOILET ACCESSORIES.
8. REMOVE AND RELOCATE EXISTING WATER HEATER. REFER TO PLUMBING.
9. GENERAL CONTRACTOR TO REMOVE WATER TANK, CONCRETE FOOTINGS, SUPPORT STRUCTURE AND TANK.
10. REMOVE AND DISPOSE OF PORTION OF EXISTING GYPSUM BOARD AS REQUIRED FOR INSTALLATION OF NEW PLUMBING FIXTURES AND ASSOCIATED PLUMBING. REPAIR WITH MOISTURE RESISTANT GYPSUM BOARD TO MATCH WIDTH OF EXISTING ADJACENT GYPSUM BOARD TO REMAIN.
11. REMOVE AND DISPOSE OF EXISTING CONCRETE SLAB AS REQUIRED FOR INSTALLATION OF NEW WATER CLOSET.
12. REMOVE, DISCONNECT AND DISPOSE OF EXISTING THROUGH WALL MECHANICAL UNIT. PREPARE WALL FOR PATCHING AND FINISH.
13. FIELD VERIFY EXISTING HEIGHT OF EXISTING WALL OPENING HEADERS TO MATCH HEIGHT OF NEW DOOR AND WINDOWS FRAMES (7'-2" A.F.). IF LOWER, REMOVE AND DISPOSE OF HEADER AND WALL AS REQUIRED FOR NEW ROUGH OPENING HEADER.



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CONSULTANT

PROJECT TITLE

**SANTA FE
COUNTY
MADRID
FIRE STATION**

**MADRID
NEW MEXICO**

REVISIONS:

MK	DATE	DESCRIPTION

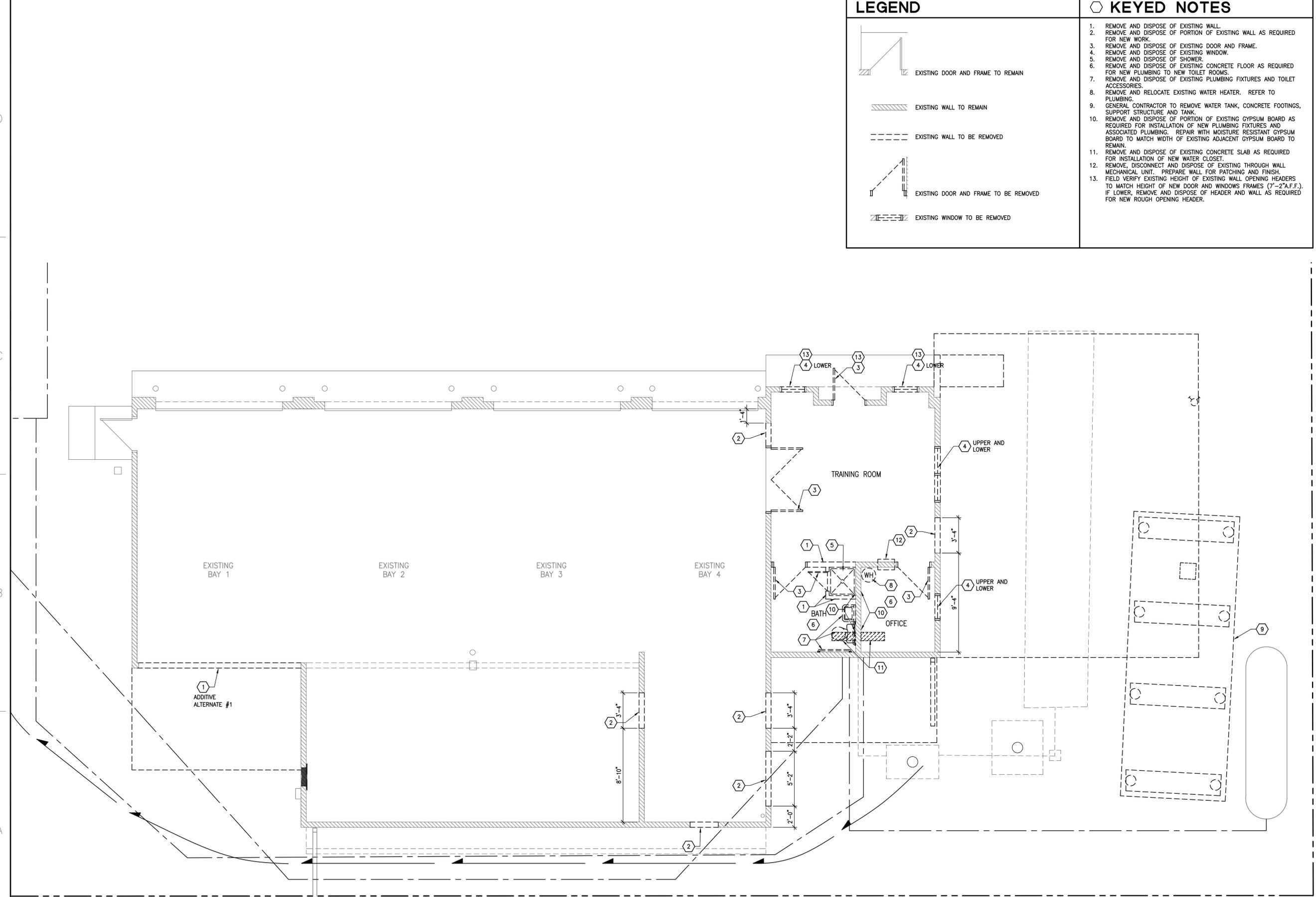
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PROJECT NUMBER:
A18.04

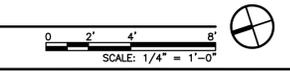
DATE:
11/01/2018

SHEET TITLE:
DEMOLITION FLOOR PLAN

SHEET NO:
AD-101



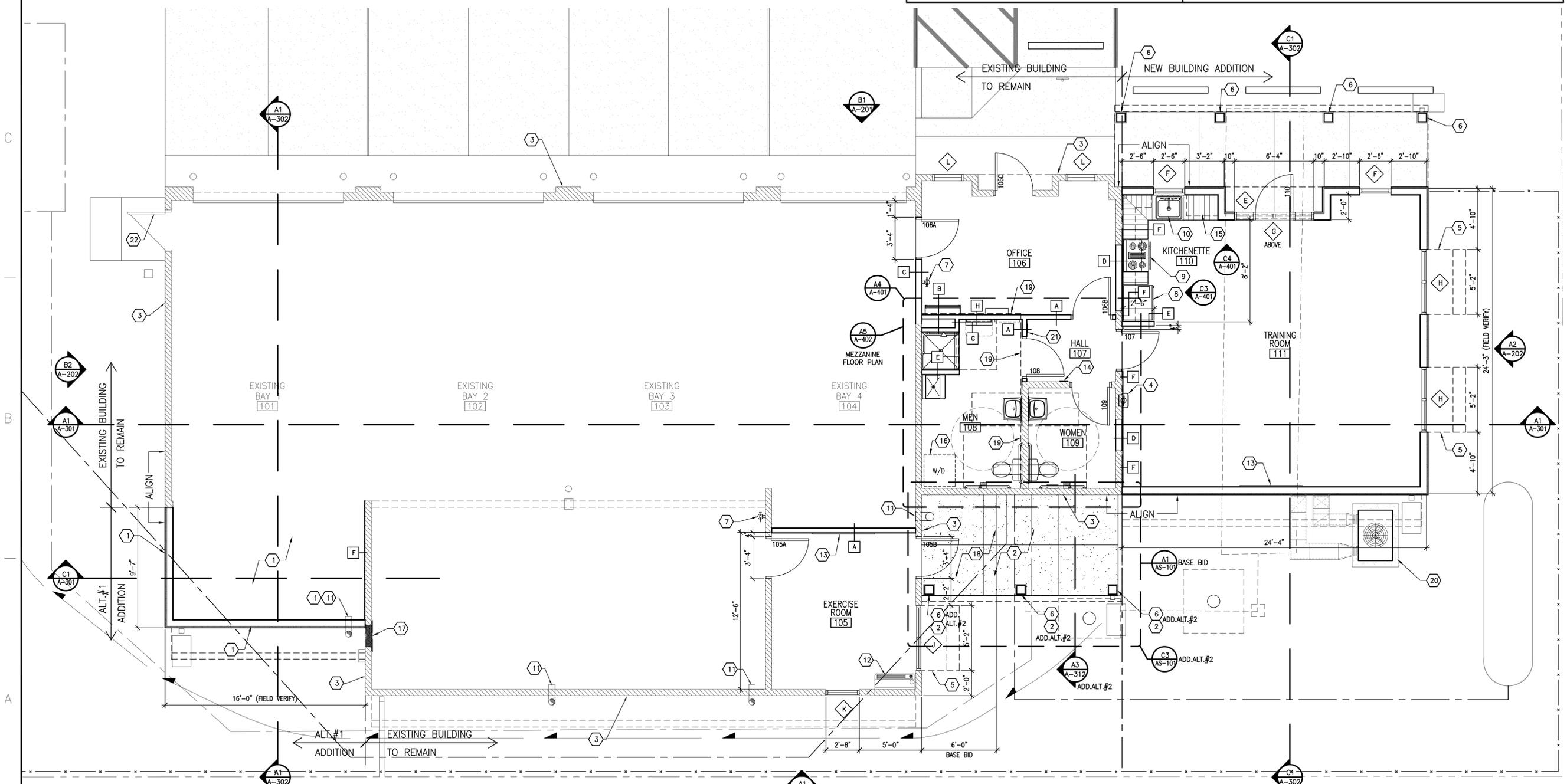
A1 DEMOLITION FLOOR PLAN



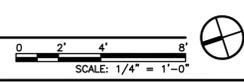
LEGEND

- EXISTING DOOR AND FRAME TO REMAIN
- EXISTING WALL TO REMAIN
- NEW EXTERIOR WALL
- NEW INTERIOR WALL
- NEW INFILL WALL TO MATCH EXISTING
- NEW WINDOW
- NEW DOOR AND FRAME

- ### KEYED NOTES
- ADDITIVE ALTERNATE #1: EXTEND BAY 1.
 - ADDITIVE ALTERNATE #2: NEW PORTAL WITH CONCRETE SLAB TO BE USED AS AN OUTDOOR EXERCISE AREA.
 - ADDITIVE ALTERNATE #3: REPAIR, PREP AND COLOR COAT, TYPICAL AT ALL EXISTING STUCCO WALLS.
 - NEW FIRE EXTINGUISHER IN CABINET. SEE DETAIL A4/G-211.
 - NEW PRE-MANUFACTURED WINDOW AWNING ABOVE.
 - NEW PORTAL WOOD POST WITH SIMPSON CPS BASE AND BASE PLATE TO SIT ON 10 1/2"x10 1/2"x4" HIGH CONCRETE BASE. ORNAMENTAL WOOD TIES (OWT) 8X8 LAREDO SUNSET FAUX POST BASE PLATE BY OZCO BUILDING PRODUCTS, (469) 916-7503 MAIN NUMBER, ITEM NUMBER: 56691 (8X8-FPB-LS).
 - NEW FIRE EXTINGUISHER ON BRACKET. SEE DETAIL A4/G-211.
 - NEW REFRIGERATOR BY OWNER. GENERAL CONTRACTOR TO PROVIDE POWER.
 - NEW ELECTRIC RANGE/ OVEN BY OWNER. GENERAL CONTRACTOR TO PROVIDE POWER.
 - NEW KITCHENETTE SINK. SEE PLUMBING.
 - EXHAUST PORT. SEE MECHANICAL.
 - PACKAGED TERMINAL AC UNIT (PTAC). SEE MECHANICAL.
 - FLAT SCREEN TELEVISION BY OWNER. PROVIDE POWER, CATV AND CAT 5 CABLE. REFER TO ELECTRICAL.
 - ADA SIGNAGE. REFERENCE DETAIL D4/G-211.
 - NEW MICROWAVE OVEN BY OWNER ABOVE (IN OPEN UPPER CABINET).
 - OWNER FURNISHED, CONTRACTOR INSTALLED STACK WASHER/ DRYER.
 - EXISTING ELECTRICAL PANEL. SEE ELECTRICAL.
 - INSTALL 4" CONCRETE SLAB APRON AS PART OF BASE BID SCOPE. REFER TO STRUCTURAL DETAIL A4/S-301.
 - DASHED LINE DENOTES MEZZANINE ABOVE. SEE SHEET A-402.
 - MECHANICAL UNIT WITH 4" THICK CONCRETE PAD WITH TURN DOWN EDGE @ ALL EXPOSED SIDES. REFERENCE B2/AS-501. VERIFY WITH MANUFACTURER'S REQUIREMENTS FOR CONCRETE PAD SIZE AND LOCATION.
 - ADA SIGNAGE. REFERENCE DETAIL D3/G-211.
 - EXISTING DOOR AND FRAME TO REMAIN, PAINT.
 - NEW HEADER AS REQUIRED FOR NEW WINDOWS AND NEW DOOR AND FRAME. SEE KEYED NOTE 13 DEMOLITION FLOOR PLAN SHEET AD-101.



A1 FLOOR PLAN



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PROJECT TITLE

**SANTA FE COUNTY
MADRID
FIRE STATION**

**MADRID
NEW MEXICO**

REVISIONS:

NO.	DATE	DESCRIPTION

DRAWN BY: CHECKED BY:

JS JL

PROJECT NUMBER:

A18.04

DATE:

11/01/2018

SHEET TITLE:

FLOOR PLAN

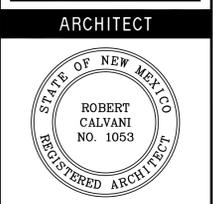
SHEET NO.:

A-101

- ### KEYED NOTES
- EXISTING ROOF TO REMAIN.
 - EXISTING METAL GUTTER, PAINT.
 - EXISTING METAL DOWNSPOUT, PAINT.
 - NEW METAL ROOF ON ICE AND WATER SHIELD ON 1/2" OSB SHEATHING AS PER STRUCTURAL.
 - NEW METAL GUTTER.
 - NEW METAL DOWNSPOUT.
 - NEW PRE-MANUFACTURED WINDOW AWNING.
 - ADDITIVE ALTERNATE #1: EXTEND BAY 1 ROOF.
 - ADDITIVE ALTERNATE #2: NEW PORTAL ROOF.
 - EXISTING METAL DOWNSPOUT TO REMAIN. SHORTEN AS REQUIRED FOR NEW PORTAL ROOF IF ADDITIVE ALTERNATE #2 IS ACCEPTED.
 - PARAPET HEIGHT PROVIDED IS NOT TAKEN FROM FINISH FLOOR BUT GRADE RATHER AS SHOWN ON ORIGINAL EXTERIOR ELEVATIONS DRAWINGS DATED MARCH 1990. FIELD VERIFY HEIGHTS AND MATCH/ALIGN NEW WITH EXISTING AS SHOWN ON EXTERIOR ELEVATIONS SHEETS A-201 AND A-202.
 - FIELD VERIFY DIMENSION TO MATCH PARAPET STEP AT EXISTING.
 - BUILT UP CRICKET AS REQUIRED AT ROOFTOP UNIT.
 - ROOFTOP UNIT. SEE MECHANICAL DRAWINGS. SEE DETAIL D2/A-511.
 - EXPOSED MECHANICAL DUCTWORK, EXTEND UP WALL AND ATTACH TO WALL WITH REQUIRED ANCHORS AS RECOMMENDED BY MANUFACTURER. PREP DUCTWORK AS REQUIRED TO RECEIVE PAINT.
 - EXISTING METAL COPING TO REMAIN, PAINT.
 - REMOVE PORTION OF EXISTING METAL COPING AS REQUIRED FOR NEW COPING INSTALLATION.



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**SANTA FE COUNTY
MADRID
FIRE STATION**

MADRID
NEW MEXICO

REVISIONS:

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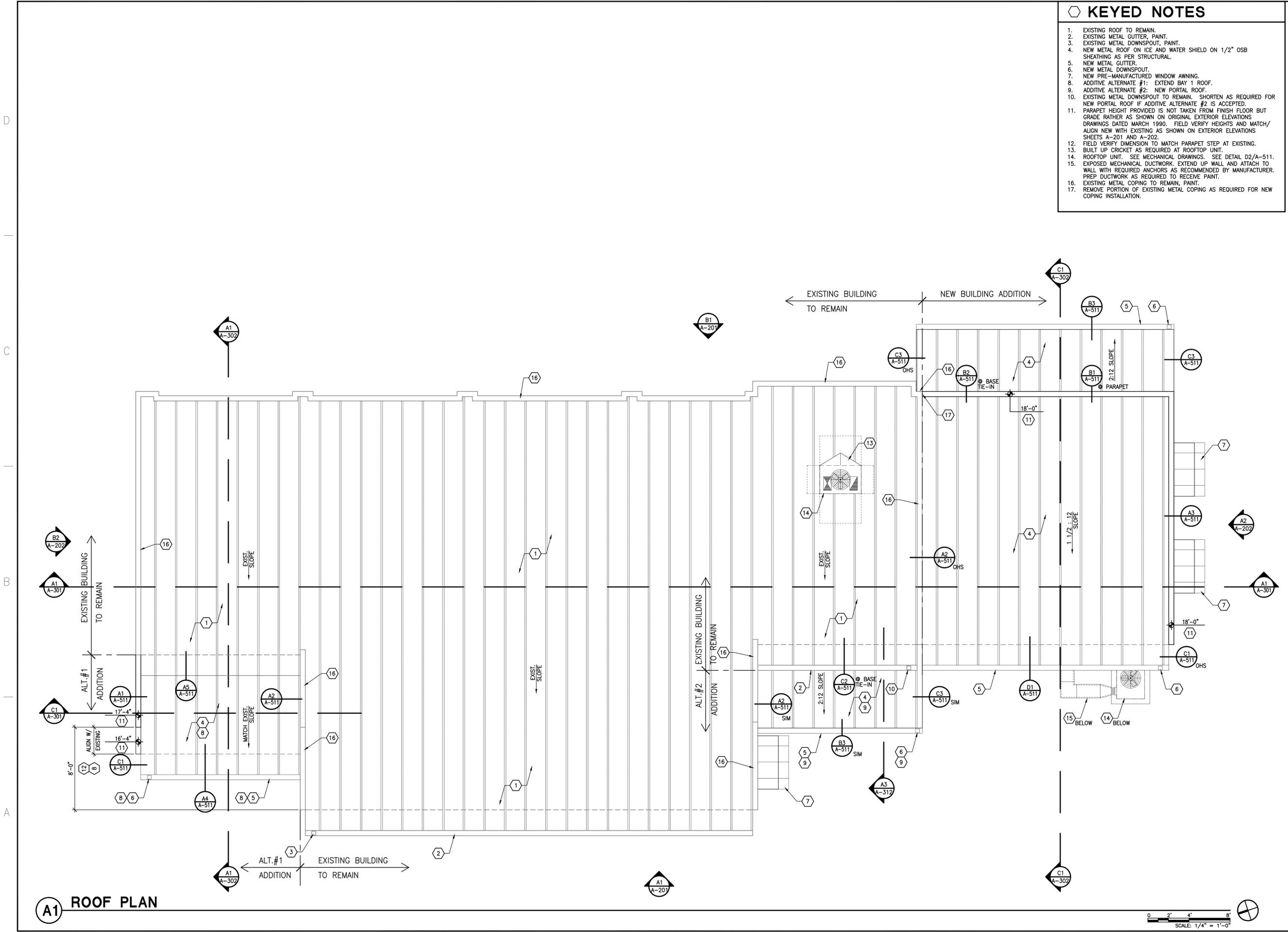
DATE:
11/01/2018

SHEET TITLE:

ROOF PLAN

SHEET NO.:

A-111



A1 ROOF PLAN

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

KEYED NOTES

- A. REFERENCE MECHANICAL DRAWINGS FOR AIR SUPPLY REGISTERS AND RETURN AIR GRILLES.
- B. REFERENCE ELECTRICAL DRAWINGS FOR LIGHTING.

KEYED NOTES

1. EXISTING GYPSUM BOARD TO REMAIN.
2. NEW GYPSUM BOARD CEILING TO MATCH EXISTING TEXTURE.
3. EXISTING GYPSUM BOARD CEILING TO REMAIN, REPAIR AND PAINT.
4. NEW GYPSUM BOARD CEILING.
5. EXPOSED WOOD BEAM, STAIN AND SEAL. SEE STRUCTURAL.
6. NEW OVERHANG.
7. STUCCO SYSTEM SOFFIT.
8. PRE-MANUFACTURED WINDOW AWNING.
9. ADDITIVE ALTERNATE #1: EXTEND BAY 1.
10. ADDITIVE ALTERNATE #2: NEW PORTAL.
11. EXPOSED STRUCTURE.
12. SHOWER UNIT LID.
13. EXPOSED HOOD EXHAUST.
14. FIELD VERIFY TO MATCH EXISTING TOILET ROOM CEILING HEIGHT.
15. NEW METAL GUTTER.
16. NEW SOFFIT SHEATHING, PAINT.
17. EXISTING OVERHANG TO REMAIN.
18. DASHED LINE INDICATES MECHANICAL DUCTWORK AND MECHANICAL UNIT BELOW.
19. DASHED LINE INDICATES WALL CABINETS. REFERENCE INTERIOR ELEVATIONS.



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SANTA FE COUNTY MADRID FIRE STATION

MADRID NEW MEXICO

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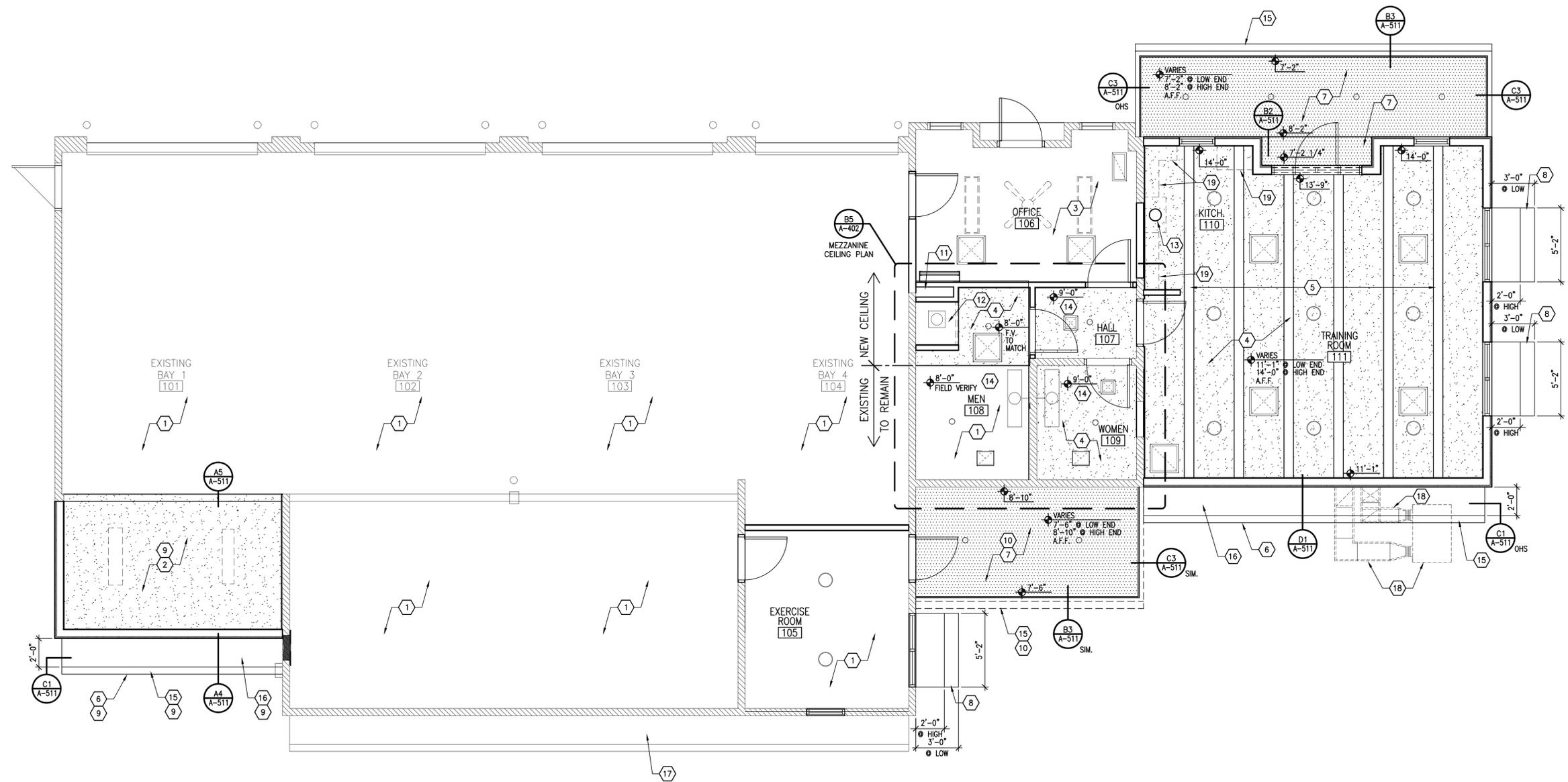
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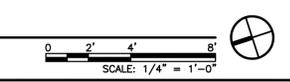
REFLECTED CEILING PLAN

SHEET NO:

A-121



A1 REFLECTED CEILING PLAN

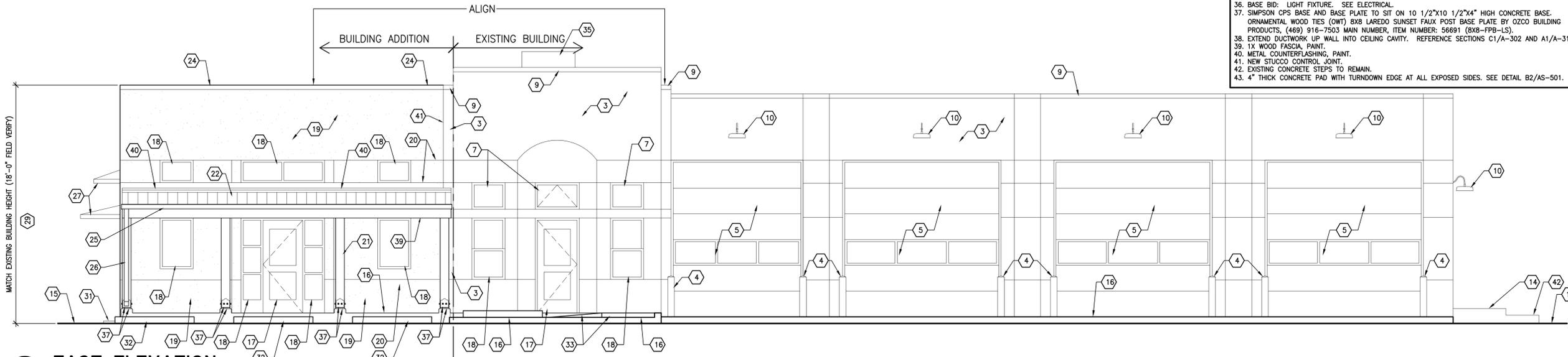


GENERAL NOTES

A. NOT ALL KEYED NOTES MAY APPLY ON THIS SHEET.

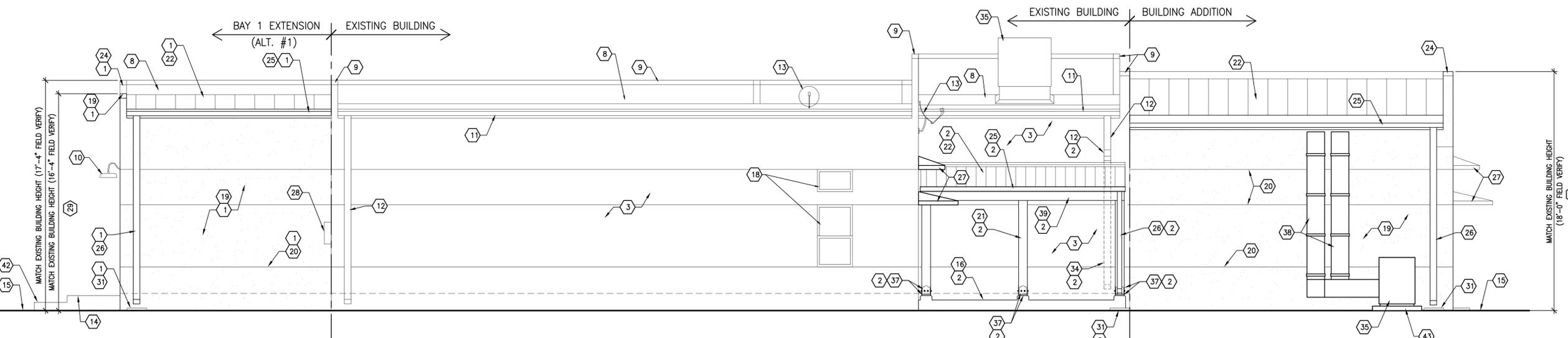
KEYED NOTES

1. ADDITIVE ALTERNATE #1: EXTENDED BAY 1.
2. ADDITIVE ALTERNATE #2: NEW PORTAL.
3. ADDITIVE ALTERNATE #3: PREP/ REPAIR EXISTING STUCCO TO MATCH NEW STUCCO. TYPICAL AT ALL EXISTING STUCCO.
4. EXISTING BOLLARD TO REMAIN.
5. EXISTING OVERHEAD DOOR TO REMAIN.
6. EXISTING DOOR AND FRAME TO REMAIN.
7. EXISTING WINDOW TO REMAIN, PAINT.
8. EXISTING METAL ROOF.
9. EXISTING METAL COPING TO REMAIN, PAINT.
10. EXISTING LIGHTING TO REMAIN, PAINT.
11. EXISTING METAL GUTTER TO REMAIN, PAINT.
12. EXISTING DOWNSPOUT TO REMAIN, PAINT.
13. EXISTING SATELLITE DISH TO REMAIN.
14. EXISTING CONCRETE PAVING TO REMAIN.
15. EXISTING GRADE.
16. NEW CONCRETE PAVING. SEE SITE PLAN.
17. NEW DOOR AND FRAME.
18. NEW GLASS AND FRAME.
19. NEW STUCCO SYSTEM.
20. NEW STUCCO CONTROL JOINT AS SHOWN. MATCH EXISTING CONTROL JOINT HEIGHTS WHERE NEW IS ADJACENT TO EXISTING.
21. NEW PORTAL WOOD POST. REFERENCE STRUCTURAL.
22. NEW METAL ROOF.
23. NEW METAL FLASHING.
24. NEW METAL COPING.
25. NEW METAL GUTTER.
26. NEW METAL DOWNSPOUT.
27. NEW PRE-MANUFACTURED WINDOW AWNING.
28. EXISTING ELECTRICAL METER TO REMAIN.
29. PARAPET HEIGHT PROVIDED IS NOT TAKEN FROM FINISH FLOOR BUT FROM GRADE RATHER AS SHOWN ON ORIGINAL EXTERIOR ELEVATIONS DRAWINGS DATED MARCH 1990. FIELD VERIFY HEIGHTS AND MATCH/ ALIGN NEW WITH EXISTING AS SHOWN.
30. FIELD VERIFY DIMENSION TO MATCH PARAPET STEP BEYOND.
31. NEW CONCRETE SPLASHBLOCK. SEE DETAIL B3/AS-501.
32. NEW PARKING BUMPER. SEE SITE PLAN.
33. NEW CONCRETE RAMP. SEE SITE PLAN.
34. DASHED LINE INDICATES DOWNSPOUT TO BE DEMOLISHED UNDER ADDITIVE ALTERNATE #2 AND TO REMAIN AT BASE BID.
35. MECHANICAL UNIT. REFERENCE MECHANICAL.
36. BASE BID: LIGHT FIXTURE. SEE ELECTRICAL.
37. SIMPSON CPS BASE AND BASE PLATE TO SIT ON 10 1/2"x10 1/2"x4" HIGH CONCRETE BASE.
38. ORNAMENTAL WOOD TIES (OWT) 8X8 LAREDO SUNSET FAUX POST BASE PLATE BY OZCO BUILDING PRODUCTS, (469) 916-7503 MAIN NUMBER, ITEM NUMBER: 56691 (8X8-FPB-LS).
39. EXTEND DUCTWORK UP WALL INTO CEILING CAVITY. REFERENCE SECTIONS C1/A-302 AND A1/A-312.
40. 1X WOOD FASCIA, PAINT.
41. METAL COUNTERFLASHING, PAINT.
42. NEW STUCCO CONTROL JOINT.
43. EXISTING CONCRETE STEPS TO REMAIN.
44. 4" THICK CONCRETE PAD WITH TURNDOWN EDGE AT ALL EXPOSED SIDES. SEE DETAIL B2/AS-501.



B1 EAST ELEVATION

0 2' 4' 8'
SCALE: 1/4" = 1'-0"



A1 WEST ELEVATION

0 2' 4' 8'
SCALE: 1/4" = 1'-0"



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CONSULTANT

PROJECT TITLE

**SANTA FE
COUNTY
MADRID
FIRE STATION**

MADRID
NEW MEXICO

REVISIONS:

MK	DATE	DESCRIPTION

DRAWN BY: JS
CHECKED BY: JL

PROJECT NUMBER:
A18.04

DATE:
11/01/2018

SHEET TITLE:

**EXTERIOR
ELEVATIONS**

SHEET NO.:

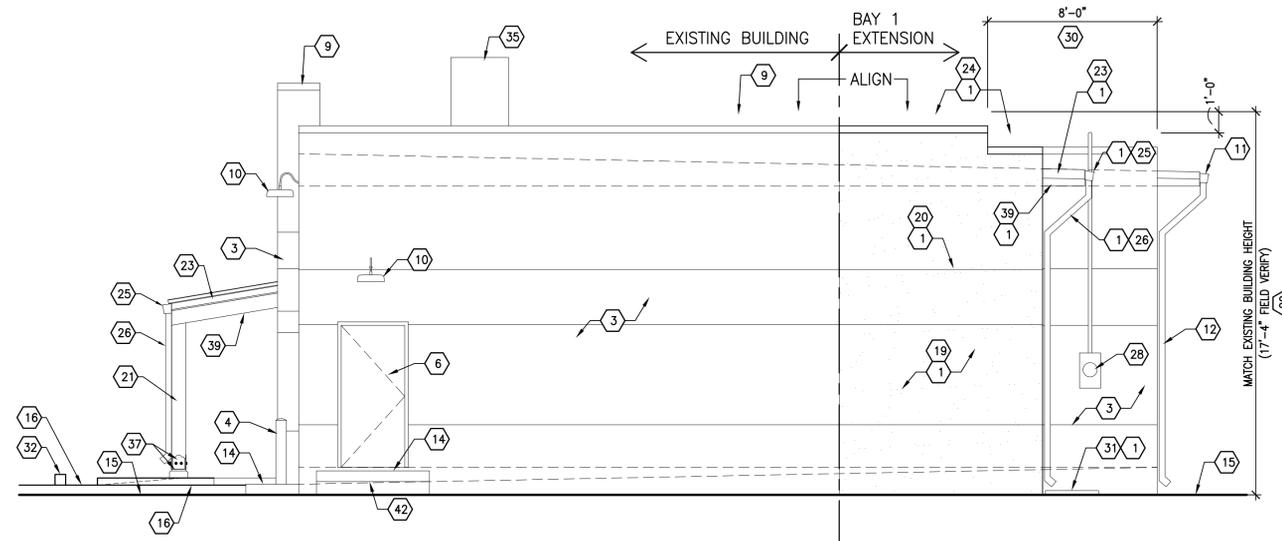
A-201

GENERAL NOTES

A. NOT ALL KEYED NOTES MAY APPLY ON THIS SHEET.

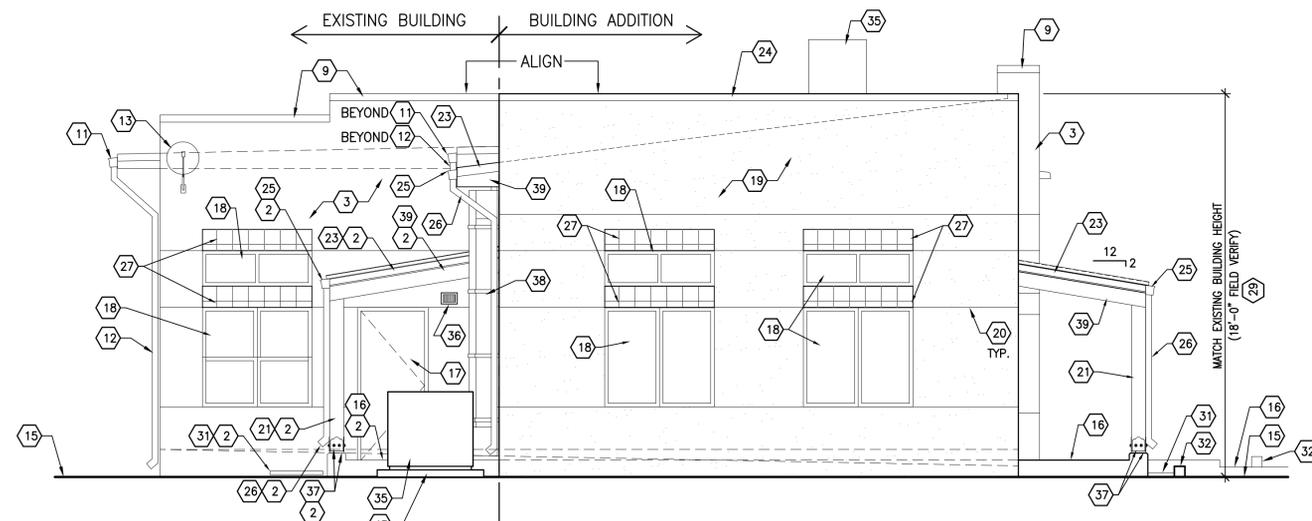
KEYED NOTES

1. ADDITIVE ALTERNATE #1: EXTENDED BAY 1.
2. ADDITIVE ALTERNATE #2: NEW PORTAL.
3. ADDITIVE ALTERNATE #3: PREP/ REPAIR EXISTING STUCCO TO MATCH NEW STUCCO. TYPICAL AT ALL EXISTING STUCCO.
4. EXISTING BOLLARD TO REMAIN.
5. EXISTING OVERHEAD DOOR TO REMAIN.
6. EXISTING DOOR AND FRAME TO REMAIN.
7. EXISTING WINDOW TO REMAIN, PAINT.
8. EXISTING METAL ROOF.
9. EXISTING METAL COPING TO REMAIN, PAINT.
10. EXISTING LIGHTING TO REMAIN, PAINT.
11. EXISTING METAL GUTTER TO REMAIN, PAINT.
12. EXISTING DOWNSPOUT TO REMAIN, PAINT.
13. EXISTING SATELLITE DISH TO REMAIN.
14. EXISTING CONCRETE PAVING TO REMAIN.
15. EXISTING GRADE.
16. NEW CONCRETE PAVING. SEE SITE PLAN.
17. NEW DOOR AND FRAME.
18. NEW GLASS AND FRAME.
19. NEW STUCCO SYSTEM.
20. NEW STUCCO CONTROL JOINT AS SHOWN. MATCH EXISTING CONTROL JOINT HEIGHTS WHERE NEW IS ADJACENT TO EXISTING.
21. NEW PORTAL WOOD POST. REFERENCE STRUCTURAL.
22. NEW METAL ROOF.
23. NEW METAL FLASHING.
24. NEW METAL COPING.
25. NEW METAL GUTTER.
26. NEW METAL DOWNSPOUT.
27. NEW PRE-MANUFACTURED WINDOW AWNING.
28. EXISTING ELECTRICAL METER TO REMAIN.
29. PARAPET HEIGHT PROVIDED IS NOT TAKEN FROM FINISH FLOOR BUT FROM GRADE RATHER AS SHOWN ON ORIGINAL EXTERIOR ELEVATIONS DRAWINGS DATED MARCH 1990. FIELD VERIFY HEIGHTS AND MATCH/ ALIGN NEW WITH EXISTING AS SHOWN.
30. FIELD VERIFY DIMENSION TO MATCH PARAPET STEP BEYOND.
31. NEW CONCRETE SPLASHBLOCK. SEE DETAIL B3/AS-501.
32. NEW PARKING BUMPER. SEE SITE PLAN.
33. NEW CONCRETE RAMP. SEE SITE PLAN.
34. DASHED LINE INDICATES DOWNSPOUT TO BE DEMOLISHED UNDER ADDITIVE ALTERNATE #2 AND TO REMAIN AT BASE BID.
35. MECHANICAL UNIT. REFERENCE MECHANICAL.
36. BASE BID: LIGHT FIXTURE. SEE ELECTRICAL.
37. SIMPSON CPS BASE AND BASE PLATE TO SIT ON 10 1/2"x10 1/2"x4" HIGH CONCRETE BASE.
38. ORNAMENTAL WOOD TIES (OWT) 8X8 LAREDO SUNSET FAUX POST BASE PLATE BY OZCO BUILDING PRODUCTS, (469) 916-7503 MAIN NUMBER, ITEM NUMBER: 56691 (8X8-FPB-LS).
39. EXTEND DUCTWORK UP WALL INTO CEILING CAVITY. REFERENCE SECTIONS C1/A-302 AND A1/A-312.
40. 1X WOOD FASCIA, PAINT.
41. METAL COUNTERFLASHING, PAINT.
42. NEW STUCCO CONTROL JOINT.
43. EXISTING CONCRETE STEPS TO REMAIN.
44. 4" THICK CONCRETE PAD WITH TURNDOWN EDGE AT ALL EXPOSED SIDES. SEE DETAIL B2/AS-501.



B2 NORTH ELEVATION

0 2' 4' 8'
SCALE: 1/4" = 1'-0"



A2 SOUTH ELEVATION

0 2' 4' 8'
SCALE: 1/4" = 1'-0"



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PROJECT TITLE

**SANTA FE
COUNTY
MADRID
FIRE STATION**

**MADRID
NEW MEXICO**

REVISIONS:

MK	DATE	DESCRIPTION

DRAWN BY: CHECKED BY:

JS JL

PROJECT NUMBER:

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11/01/2018

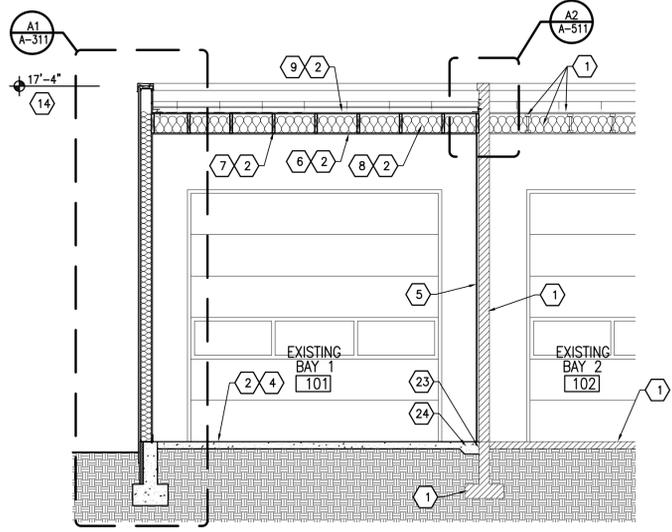
SHEET TITLE:

**EXTERIOR
ELEVATIONS**

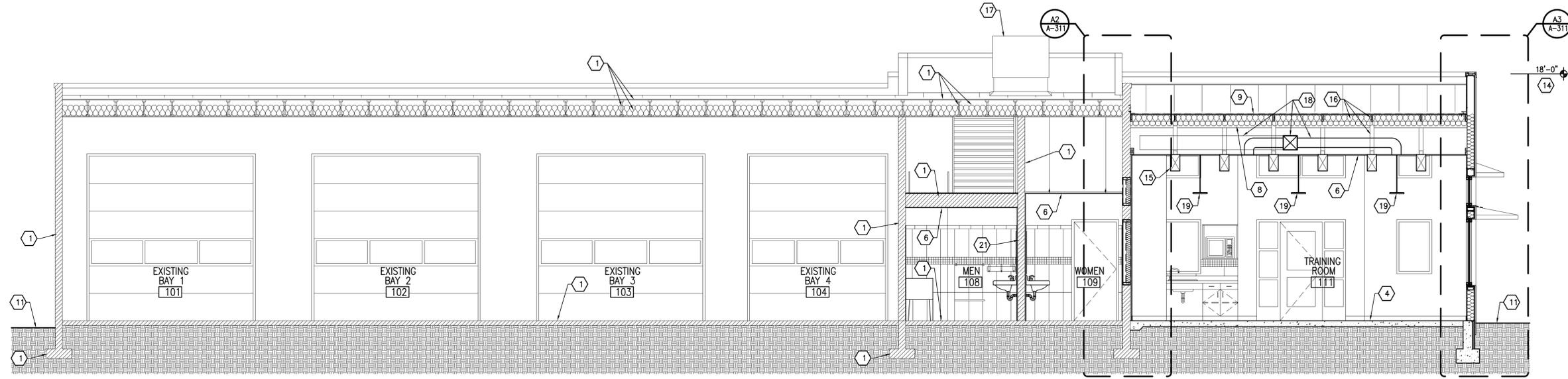
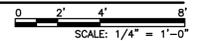
SHEET NO:

A-202

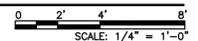
- ### GENERAL NOTES
- A. NOT ALL KEYED NOTES MAY APPLY ON THIS SHEET.
- ### KEYED NOTES
- EXISTING BUILDING TO REMAIN.
 - ADDITIVE ALTERNATE #1: EXTENDED BAY 1.
 - ADDITIVE ALTERNATE #2: NEW PORTAL.
 - NEW CONCRETE SLAB OVER COMPACTED SUBGRADE. SEE STRUCTURAL.
 - NEW INTERIOR WALL. SEE SHEETS A-101 AND A-601.
 - NEW CEILING AS SCHEDULED.
 - NEW FRAMING. SEE STRUCTURAL.
 - NEW R-38 BATT INSULATION.
 - NEW METAL ROOF SYSTEM ON ICE AND WATER SHIELD ON 1/2" OSB SHEATHING AS PER STRUCTURAL.
 - NEW CONCRETE DRIVE PAD FOR TRUCK BAYS. SEE SITE PLAN.
 - SITE PAVING OR GRADE. SEE SITE PLAN.
 - NEW LVL LINTEL, SEE STRUCTURAL.
 - REMOVE EXISTING WALL.
 - PARAPET HEIGHT PROVIDED IS NOT TAKEN FROM FINISH FLOOR BUT GRADE RATHER AS SHOWN ON ORIGINAL EXTERIOR ELEVATIONS DRAWINGS DATED MARCH 1990. FIELD VERIFY HEIGHTS AND MATCH/ ALIGN NEW WITH EXISTING AS SHOWN ON EXTERIOR ELEVATIONS SHEETS A-201 AND A-202.
 - EXPOSED WOOD BEAM. SEE STRUCTURAL.
 - 2X WOOD BEAM AND POST FRAMED CEILING SPACE CAVITY FOR MECHANICAL/ELECTRICAL. SEE STRUCTURAL.
 - MECHANICAL UNIT. REFERENCE MECHANICAL.
 - MECHANICAL DUCTWORK. REFERENCE MECHANICAL.
 - LIGHT FIXTURE. REFERENCE ELECTRICAL.
 - EXTEND DUCTWORK UP WALL AND INTO CEILING CAVITY. ANCHOR DUCTWORK TO WALL AS RECOMMENDED BY MANUFACTURER. PREP DUCTWORK AS REQUIRED TO RECEIVE PAINT.
 - EXISTING INTERIOR WALL TO REMAIN. PATCH AND REPAIR GYPSUM BOARD DUE TO DEMOLITION FOR PLUMBING WORK.
 - 4" THICK CONCRETE PAD WITH TURN DOWN EDGE AT ALL EXPOSED SIDES. REFERENCE DETAIL B2/AS-501.
 - 30# FELT JOINT.
 - THICKENED SLAB. SEE STRUCTURAL.



C1 BUILDING SECTION - ADDITIVE ALTERNATE #1



A1 BUILDING SECTION



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PROJECT TITLE

**SANTA FE COUNTY
MADRID
FIRE STATION**

**MADRID
NEW MEXICO**

REVISIONS:

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PROJECT NUMBER:
A18.04

DATE:
11/01/2018

SHEET TITLE:

**BUILDING
SECTIONS**

SHEET NO:

A-301

1

2

3

4

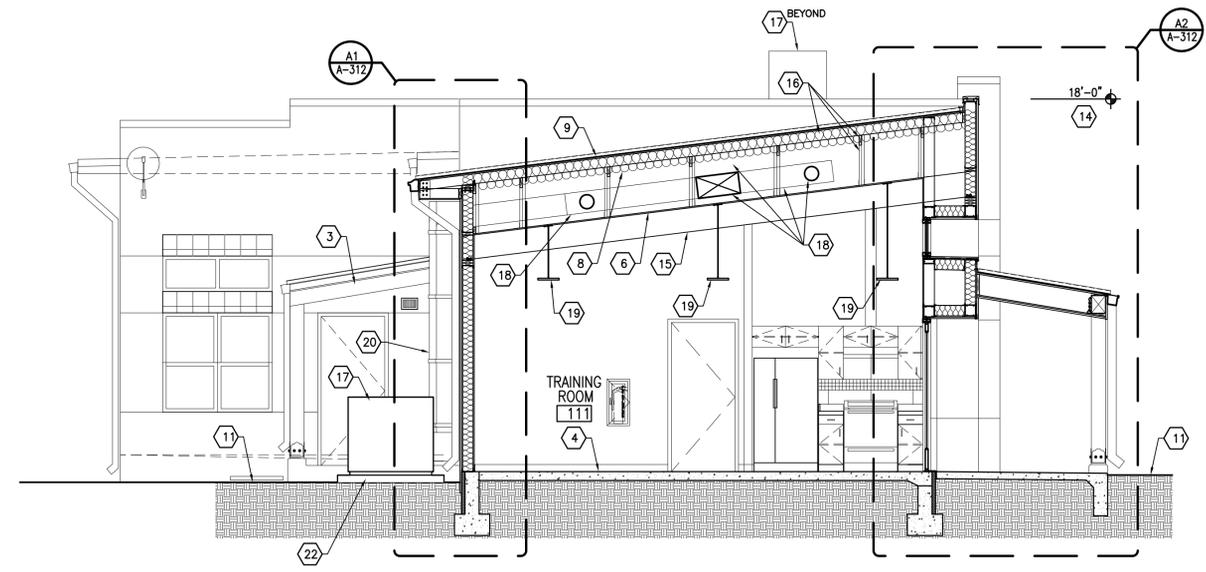
5

GENERAL NOTES

A. NOT ALL KEYED NOTES MAY APPLY ON THIS SHEET.

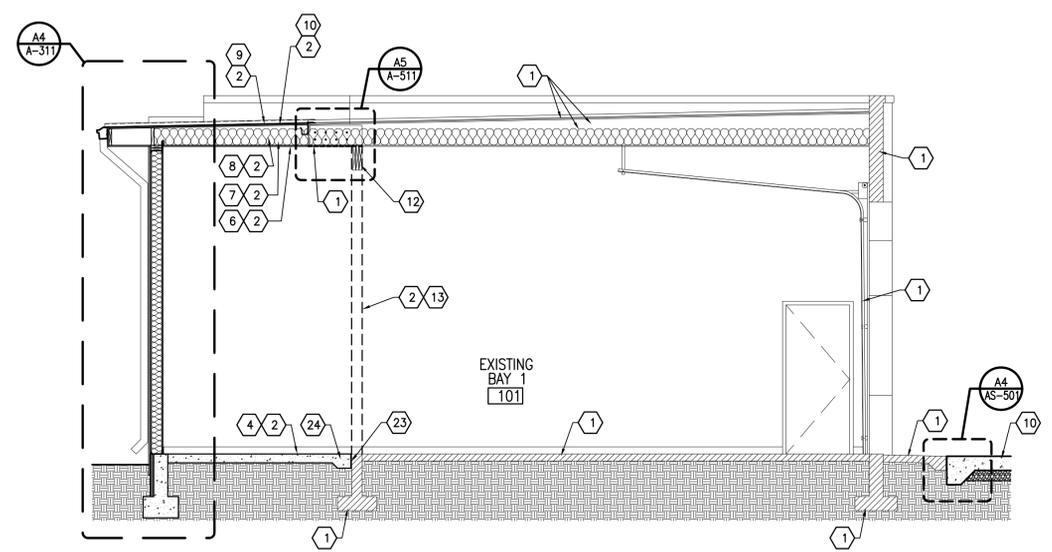
KEYED NOTES

1. EXISTING BUILDING TO REMAIN.
2. ADDITIVE ALTERNATE #1: EXTENDED BAY 1.
3. ADDITIVE ALTERNATE #2: NEW PORTAL.
4. NEW CONCRETE SLAB OVER COMPACTED SUBGRADE. SEE STRUCTURAL.
5. NEW INTERIOR WALL. SEE SHEETS A-101 AND A-601.
6. NEW CEILING AS SCHEDULED.
7. NEW FRAMING AS SCHEDULED.
8. NEW R-38 BATT INSULATION.
9. NEW METAL ROOF SYSTEM ON ICE AND WATER SHIELD ON 1/2" OSB SHEATHING AS PER STRUCTURAL.
10. NEW CONCRETE DRIVE PAD FOR TRUCK BAYS. SEE SITE PLAN.
11. SITE PAVING OR GRADE. SEE SITE PLAN.
12. NEW LVL LINTEL, SEE STRUCTURAL.
13. REMOVE EXISTING WALL.
14. PARAPET HEIGHT PROVIDED IS NOT TAKEN FROM FINISH FLOOR BUT GRADE RATHER AS SHOWN ON ORIGINAL EXTERIOR ELEVATIONS DRAWINGS DATED MARCH 1990. FIELD VERIFY HEIGHTS AND MATCH/ ALIGN NEW WITH EXISTING AS SHOWN ON EXTERIOR ELEVATIONS SHEETS A-201 AND A-202.
15. EXPOSED WOOD BEAM. SEE STRUCTURAL.
16. 2X WOOD BEAM AND POST FRAMED CEILING SPACE CAVITY FOR MECHANICAL / ELECTRICAL. SEE STRUCTURAL.
17. MECHANICAL UNIT. REFERENCE MECHANICAL.
18. MECHANICAL DUCTWORK. REFERENCE MECHANICAL.
19. LIGHT FIXTURE. REFERENCE ELECTRICAL.
20. EXTEND DUCTWORK UP WALL AND INTO CEILING CAVITY. ANCHOR DUCTWORK TO WALL AS RECOMMENDED BY MANUFACTURER. PREP DUCTWORK AS REQUIRED TO RECEIVE PAINT.
21. EXISTING INTERIOR WALL TO REMAIN. PATCH AND REPAIR GYPSUM BOARD DUE TO DEMOLITION FOR PLUMBING WORK.
22. 4" THICK CONCRETE PAD WITH TURN DOWN EDGE AT ALL EXPOSED SIDES. REFERENCE DETAIL B2/AS-501.
23. 30# FELT JOINT.
24. THICKENED SLAB. SEE STRUCTURAL.



C1 BUILDING SECTION

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



A1 BUILDING SECTION - ADDITIVE ALTERNATE #1

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



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CONSULTANT

PROJECT TITLE

**SANTA FE
COUNTY
MADRID
FIRE STATION**

**MADRID
NEW MEXICO**

REVISIONS:

MK	DATE	DESCRIPTION

DRAWN BY: CHECKED BY:

WA JL

PROJECT NUMBER:

A18.04

DATE:

11/01/2018

SHEET TITLE:

**BUILDING
SECTIONS**

SHEET NO:

A-302

GENERAL NOTES

- A. NOT ALL KEYED NOTES MAY APPLY ON THIS SHEET.
- B. REFERENCE STRUCTURAL DRAWINGS FOR JOIST BEARING HEIGHTS.
- C. REFERENCE ROOF PLAN SHEET A-111 FOR ROOF SLOPE.

KEYED NOTES

1. CONCRETE FOOTING. SEE STRUCTURAL.
2. 2" PERIMETER RIGID INSULATION.
3. CONCRETE SLAB. FINISH AS SCHEDULED. SEE STRUCTURAL.
4. BASE AS SCHEDULED.
5. 5/8" TYPE "X" GYPSUM BOARD (FINISH AS SCHEDULED).
6. 6" METAL STUDS @ 16" O.C.
7. EXTERIOR SHEATHING PER STRUCTURAL.
8. CEILING AS SCHEDULED.
9. DOOR AND FRAME AS SCHEDULED. SEE DOOR DETAILS SHEETS.
10. GLASS AND FRAME. SEE WINDOW DETAILS SHEETS.
11. 1/2" EXPANSION JOINT.
12. STUCCO SYSTEM.
13. NEW METAL ROOF SYSTEM ON ICE AND WATER SHIELD ON 1/2" OSB SHEATHING AS PER STRUCTURAL.
14. METAL DOWNSPOUT.
15. METAL STUD HEADER.
16. R-21 BATT INSULATION.
17. R-38 BATT INSULATION.
18. NEW FRAMING. SEE STRUCTURAL.
19. CONCRETE PAVING. SLOPE AWAY FROM BUILDING. REFERENCE SITE PLAN.
20. 1/2" STUCCO "F" REVEAL MOLDING BY FRY REGLET.
21. PRE-MANUFACTURED WINDOW AWNING.
22. PARAPET HEIGHT PROVIDED IS NOT TAKEN FROM FINISH FLOOR BUT GRADE RATHER AS SHOWN ON ORIGINAL EXTERIOR ELEVATIONS DRAWINGS DATED MARCH 1990. FIELD VERIFY HEIGHTS AND MATCH/ ALIGN NEW WITH EXISTING AS SHOWN ON EXTERIOR ELEVATIONS SHEETS A-201 AND A-202.
23. GRADE. SEE SITE PLAN.
24. INFILL EXISTING OPENING AS PER PARTITION TYPE INDICATED ON FLOOR PLAN AND PARTITION TYPE SHEET A-601.
25. INTERIOR PARTITION.
26. DASHED LINE INDICATES EXISTING WINDOW TO BE DEMOLISHED.
27. EXISTING BUILDING TO REMAIN.
28. DASHED LINE INDICATES DOWNSPOUT TO BE DEMOLISHED UNDER ADDITIVE ALTERNATE #2.
29. STUCCO SYSTEM SOFFIT.
30. EXPOSED WOOD BEAM. SEE STRUCTURAL.
31. 2X WOOD BEAM AND POST FRAMED CEILING SPACE CAVITY FOR MECHANICAL/ELECTRICAL. SEE STRUCTURAL.
32. MECHANICAL DUCTWORK. REFERENCE MECHANICAL.
33. 2X OR FRAMING AS REQUIRED FOR GYPSUM BOARD CEILING CONSTRUCTION.
34. SIMPSON CPS BASE AND BASE PLATE TO SIT ON 10 1/2"x10 1/2"x4" HIGH CONCRETE BASE. ORNAMENTAL WOOD TIES (OWT) 8X8 LAREDO SUNSET FAUX POST BASE PLATE BY OZCO BUILDING PRODUCTS, (469) 916-7503 MAIN NUMBER, ITEM NUMBER: 56691 (8X8-FPB-LS).
35. MECHANICAL UNIT. SET ON CONCRETE PAD AND ANCHOR AS REQUIRED. REFER TO MECHANICAL DRAWINGS.
36. EXTEND DUCTWORK UP EXTERIOR WALL AND INTO CEILING CAVITY. ANCHOR TO WALL AS REQUIRED RECOMMENDED BY MANUFACTURER. REFER TO MECHANICAL DRAWINGS.
37. 30# FELT JOINT.
38. THICKENED SLAB. SEE STRUCTURAL.
39. METAL FLASHING, PAINT.
40. PATCH AND REPAIR WALL DUE TO DEMOLITION AS REQUIRED.
41. WALL TILE AS SCHEDULED.
42. ADDITIVE ALTERNATE #3: REPAIR, PREP AND COLOR COAT. TYPICAL AT ALL EXISTING STUCCO WALLS.
43. LIGHT FIXTURE. SEE ELECTRICAL.
44. EXISTING METAL DOWNSPOUT TO REMAIN, PAINT.
45. EXISTING METAL GUTTER TO REMAIN, PAINT.
46. 2X WOOD WALLER. SEE STRUCTURAL.
47. SIMPSON STRONG-TIE A34. SEE STRUCTURAL.
48. WOOD SHIMS AS REQUIRED.



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ALBUQUERQUE, NM 87104
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CONSULTANT

PROJECT TITLE

**SANTA FE
COUNTY
MADRID
FIRE STATION**

MADRID
NEW MEXICO

REVISIONS:

MK	DATE	DESCRIPTION

DRAWN BY: WA CHECKED BY: JL

PROJECT NUMBER:
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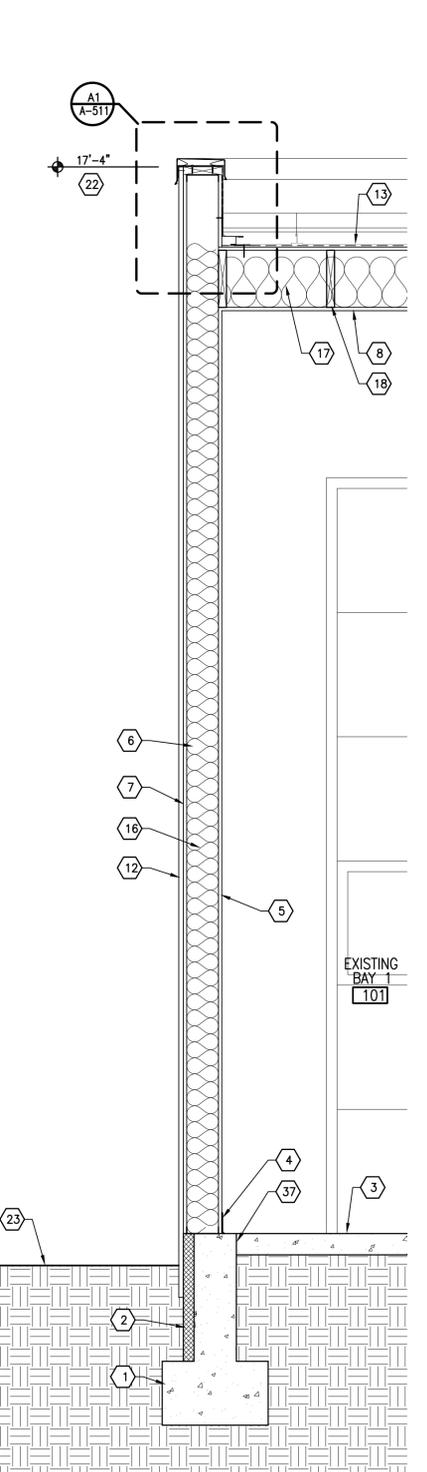
DATE:
11/01/2018

SHEET TITLE:

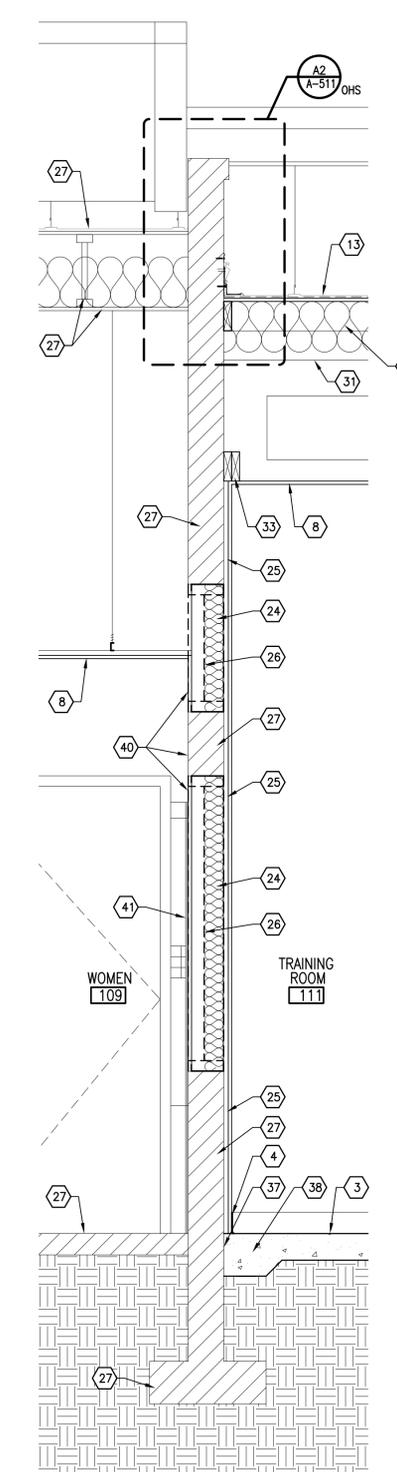
WALL SECTIONS

SHEET NO.:

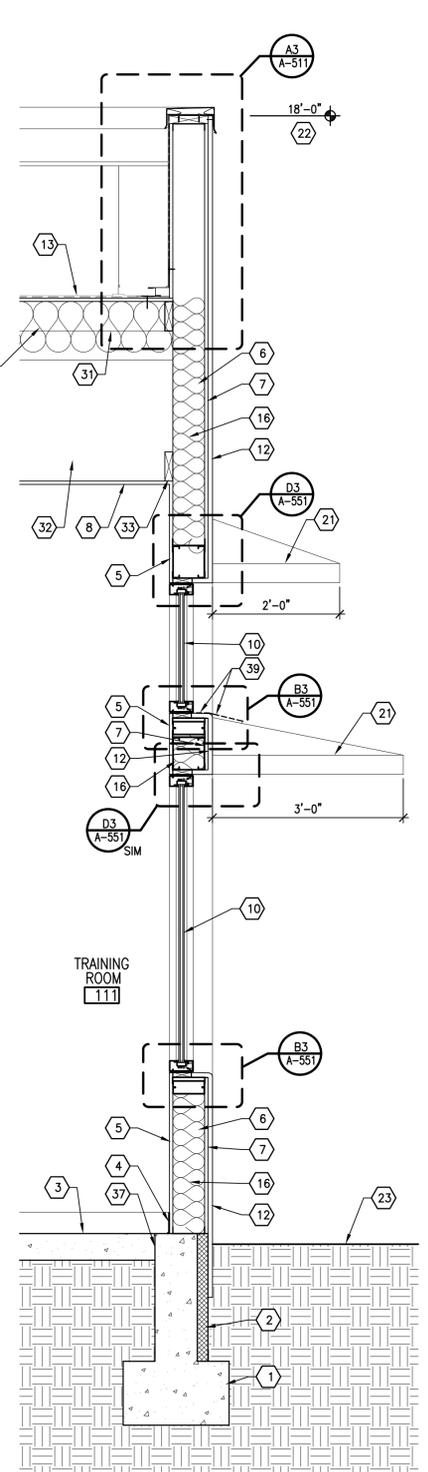
A-311



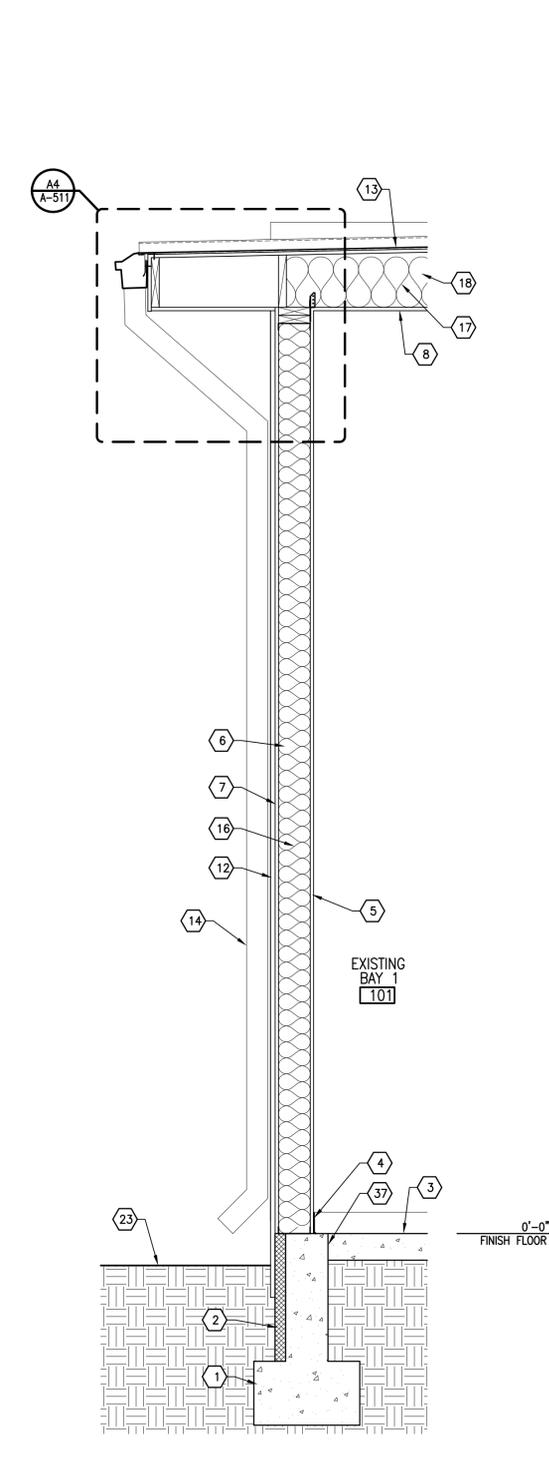
**WALL SECTION -
ADD. ALT. #1**
A1 SCALE: 3/4" = 1'-0"



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



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



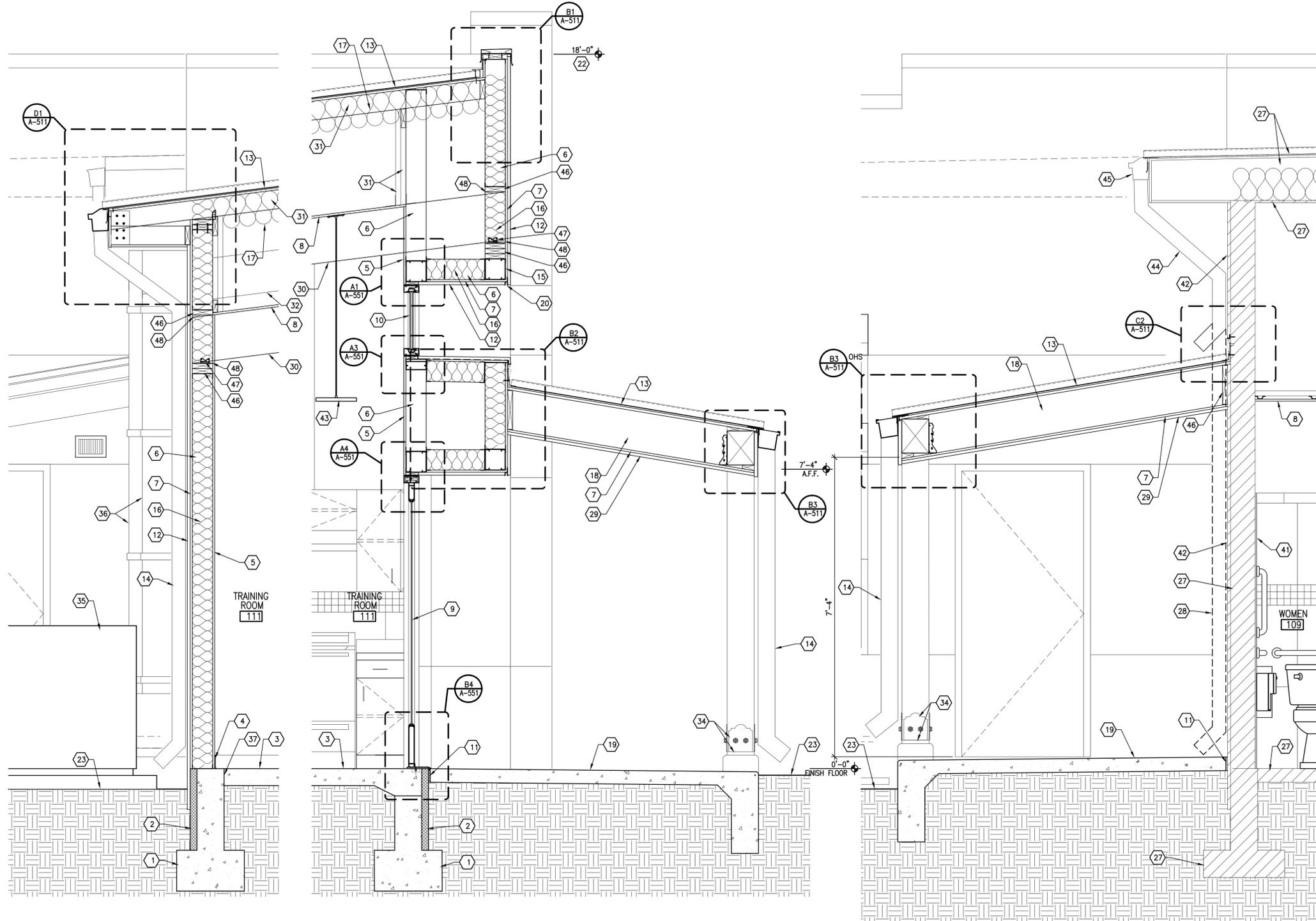
**WALL SECTION -
ADD. ALT. #1**
A4 SCALE: 3/4" = 1'-0"

GENERAL NOTES

- A. NOT ALL KEYED NOTES MAY APPLY ON THIS SHEET.
- B. REFERENCE STRUCTURAL DRAWINGS FOR JOIST BEARING HEIGHTS.
- C. REFERENCE ROOF PLAN SHEET A-111 FOR ROOF SLOPE.

KEYED NOTES

1. CONCRETE FOOTING. SEE STRUCTURAL.
2. 2" PERIMETER RIGID INSULATION.
3. CONCRETE SLAB. FINISH AS SCHEDULED. SEE STRUCTURAL.
4. BASE AS SCHEDULED.
5. 5/8" TYPE "X" GYPSUM BOARD (FINISH AS SCHEDULED).
6. 6" METAL STUDS @ 16" O.C.
7. EXTERIOR SHEATHING PER STRUCTURAL.
8. CEILING AS SCHEDULED.
9. DOOR AND FRAME AS SCHEDULED. SEE DOOR DETAILS SHEETS.
10. GLASS AND FRAME. SEE WINDOW DETAILS SHEETS.
11. 1/2" EXPANSION JOINT.
12. STUCCO SYSTEM.
13. NEW METAL ROOF SYSTEM ON ICE AND WATER SHIELD ON 1/2" OSB SHEATHING AS PER STRUCTURAL.
14. METAL DOWNSPOUT.
15. METAL STUD HEADER.
16. R-21 BATT INSULATION.
17. R-38 BATT INSULATION.
18. NEW FRAMING. SEE STRUCTURAL.
19. CONCRETE PAVING. SLOPE AWAY FROM BUILDING. REFERENCE SITE PLAN.
20. 1/2" STUCCO "F" REVEAL MOLDING BY FRY REGLET.
21. PRE-MANUFACTURED WINDOW AWNING.
22. PARAPET HEIGHT PROVIDED IS NOT TAKEN FROM FINISH FLOOR BUT GRADE RATHER AS SHOWN ON ORIGINAL EXTERIOR ELEVATIONS DRAWINGS DATED MARCH 1990. FIELD VERIFY HEIGHTS AND MATCH/ ALIGN NEW WITH EXISTING AS SHOWN ON EXTERIOR ELEVATIONS SHEETS A-201 AND A-202.
23. GRADE. SEE SITE PLAN.
24. INFILL EXISTING OPENING AS PER PARTITION TYPE INDICATED ON FLOOR PLAN AND PARTITION TYPE SHEET A-601.
25. INTERIOR PARTITION.
26. DASHED LINE INDICATES EXISTING WINDOW TO BE DEMOLISHED.
27. EXISTING BUILDING TO REMAIN.
28. DASHED LINE INDICATES DOWNSPOUT TO BE DEMOLISHED UNDER ADDITIVE ALTERNATE #2.
29. STUCCO SYSTEM SOFFIT.
30. EXPOSED WOOD BEAM. SEE STRUCTURAL.
31. 2X WOOD BEAM AND POST FRAMED CEILING SPACE CAVITY FOR MECHANICAL/ELECTRICAL. SEE STRUCTURAL.
32. MECHANICAL DUCTWORK. REFERENCE MECHANICAL.
33. 2X OR FRAMING AS REQUIRED FOR GYPSUM BOARD CEILING CONSTRUCTION.
34. SIMPSON CPS BASE AND BASE PLATE TO SIT ON 10 1/2"x10 1/2"x4" HIGH CONCRETE BASE. ORNAMENTAL WOOD TIES (OWT) 8X8 LAREDO SUNSET FAUX POST BASE PLATE. BY OZCO BUILDING PRODUCTS, (469) 916-7503 MAIN NUMBER, ITEM NUMBER: 56691 (8X8-FPB-LS).
35. MECHANICAL UNIT. SET ON CONCRETE PAD AND ANCHOR AS REQUIRED. REFER TO MECHANICAL DRAWINGS.
36. EXTEND DUCTWORK UP EXTERIOR WALL AND INTO CEILING CAVITY. ANCHOR TO WALL AS REQUIRED RECOMMENDED BY MANUFACTURER. REFER TO MECHANICAL DRAWINGS.
37. 30# FELT JOINT.
38. THICKENED SLAB. SEE STRUCTURAL.
39. METAL FLASHING, PAINT.
40. PATCH AND REPAIR WALL DUE TO DEMOLITION AS REQUIRED.
41. WALL TILE AS SCHEDULED.
42. ADDITIVE ALTERNATE #3: REPAIR, PREP AND COLOR COAT. TYPICAL AT ALL EXISTING STUCCO WALLS.
43. LIGHT FIXTURE. SEE ELECTRICAL.
44. EXISTING METAL DOWNSPOUT TO REMAIN, PAINT.
45. EXISTING METAL GUTTER TO REMAIN, PAINT.
46. 2X WOOD WALLER. SEE STRUCTURAL.
47. SIMPSON STRONG-TIE A34. SEE STRUCTURAL.
48. WOOD SHIMS AS REQUIRED.



A1 WALL SECTION
SCALE: 3/4" = 1'-0"

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

**A3 WALL SECTION -
ADD. ALT. #2**
SCALE: 3/4" = 1'-0"



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PROJECT TITLE

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MADRID
FIRE STATION**

**MADRID
NEW MEXICO**

REVISIONS:

NO.	DATE	DESCRIPTION

MARK DATE DESCRIPTION

DRAWN BY: WA CHECKED BY: JL

PROJECT NUMBER:

A18.04

DATE:

11/01/2018

SHEET TITLE:

WALL SECTIONS

SHEET NO.:

A-312

GENERAL NOTES

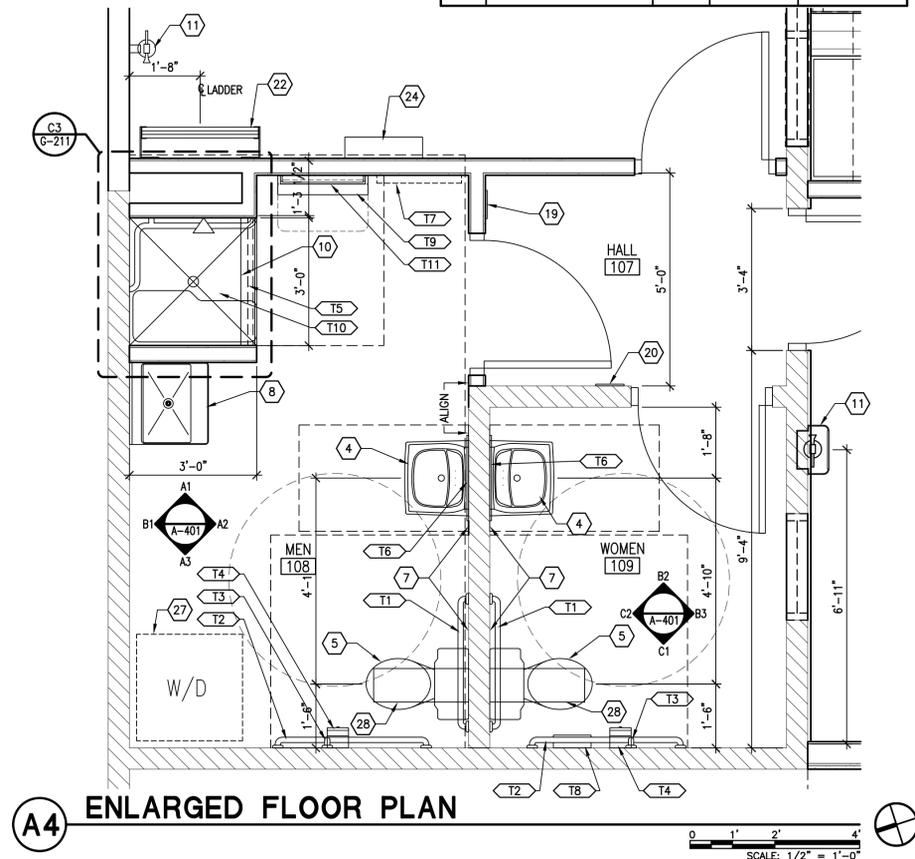
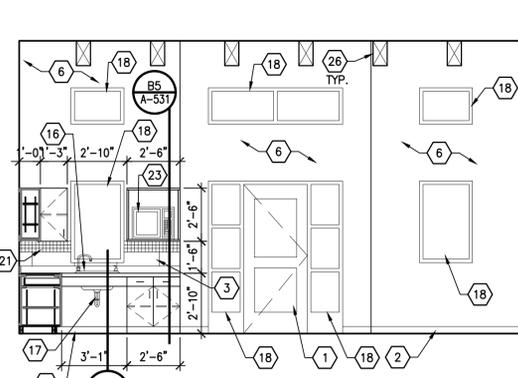
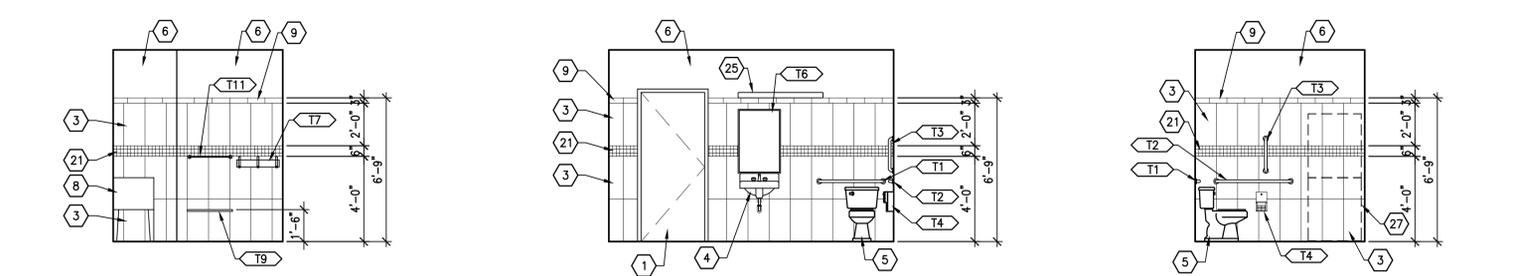
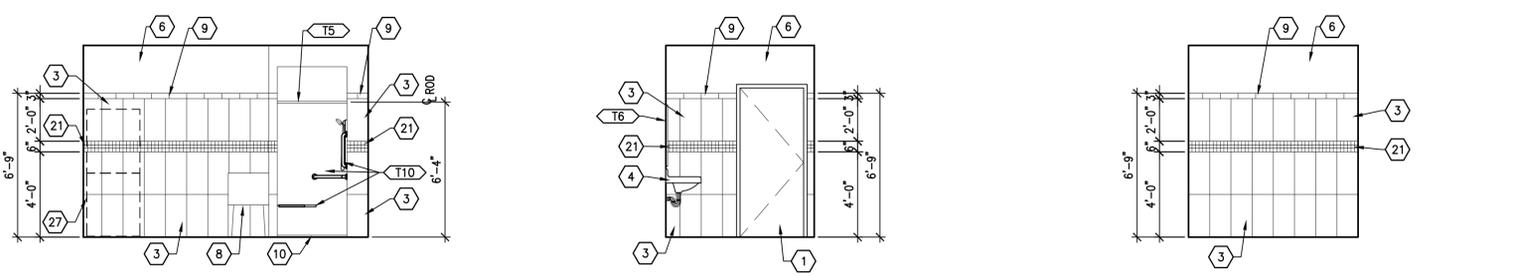
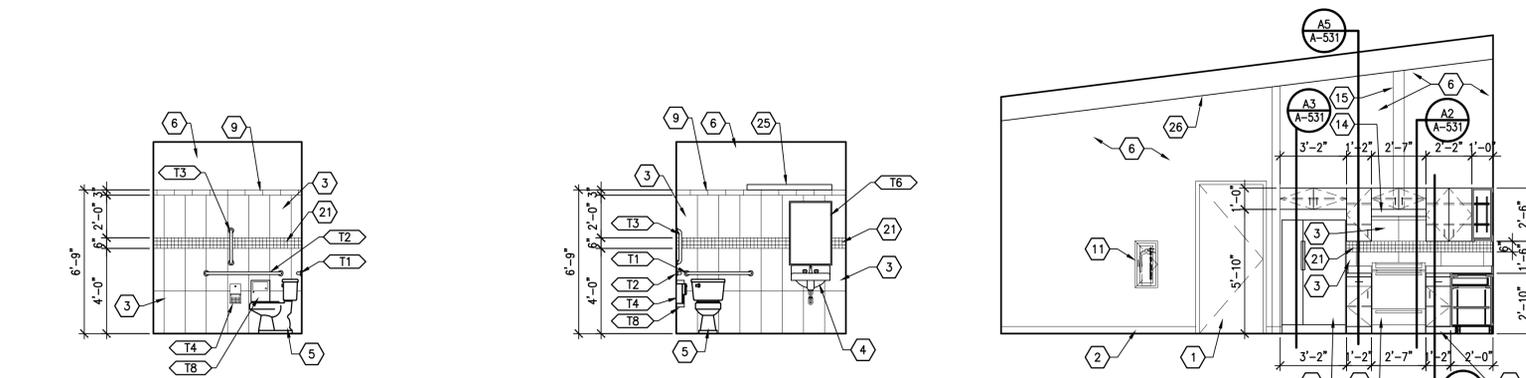
- A. PAPER TOWEL DISPENSER/ WASTE RECEPTACLE AND SOAP DISPENSER TO BE OWNER PROVIDED. VERIFY WITH OWNER TYPE AND INSTALLATION (IF ANY) REQUIREMENTS.

KEYED NOTES

1. DOOR AND FRAME AS SCHEDULED.
2. BASE AS SCHEDULED.
3. PORCELAIN WALL TILE.
4. NEW ACCESSIBLE SINK. INSULATE EXPOSED PIPING. SEE PLUMBING.
5. NEW ACCESSIBLE WATER CLOSET. SEE PLUMBING.
6. PAINTED WALL (TAPE, BED, TEXTURE AND PAINT).
7. INSTALL NEW TYPE "X" GYPSUM BOARD AS REQUIRED AT DEMOLITION LOCATIONS FOR NEW PLUMBING. TAPE, BED, TEXTURE AND PAINT TO MATCH ADJACENT EXISTING WALLS TO REMAIN AND/ OR PREP FOR TILE INSTALLATION. MAKE TRANSITIONS AS INCONSPICUOUS AS POSSIBLE. SEE ROOM FINISH SCHEDULE AND INTERIOR ELEVATIONS.
8. NEW UTILITY SINK. PORCELAIN BULLNOSE TILE.
9. PORCELAIN BULLNOSE TILE.
10. NADA SHOWER CURB.
11. FIRE EXTINGUISHER IN FIRE EXTINGUISHER CABINET. SEE DETAILS A4 AND A5/G-211.
12. REFRIGERATOR BY OWNER. GENERAL CONTRACTOR TO PROVIDE POWER.
13. ELECTRIC OVEN/ RANGE BY OWNER. GENERAL CONTRACTOR TO PROVIDE POWER.
14. RANGE HOOD BY OWNER. GENERAL CONTRACTOR TO PROVIDE POWER.
15. RANGE HOOD EXPOSED EXHAUST DUCT.
16. COUNTER SINK. SEE PLUMBING.
17. PIPE INSULATION.
18. GLASS AND FRAME.
19. MEN ADA SIGNAGE. SEE DETAIL D3/G-211.
20. WOMEN ADA SIGNAGE. SEE DETAIL D4/G-211.
21. PORCELAIN MOSAIC ACCENT BAND.
22. MEZZANINE ACCESS LADDER. SEE DETAIL D3/ A-511.
23. MICROWAVE OVEN BY OWNER. GENERAL CONTRACTOR TO PROVIDE POWER.
24. ELECTRICAL PANEL. SEE ELECTRICAL.
25. LIGHTING. MOUNT AT 6'-9" TO BOTTOM OF FIXTURE (ABOVE BULLNOSE TILE). SEE ELECTRICAL.
26. EXPOSED WOOD BEAM. STAIN AND SEAL. SEE STRUCTURAL.
27. OWNER FURNISHED. CONTRACTOR INSTALLED STACK WASHER/ DRYER.
28. NEW CONCRETE SLAB AT DEMOLITION AREA AS REQUIRED.

TOILET ACCESSORY SCHEDULE

MARK	DESCRIPTION	DETAIL	MANUFACTURER	MOUNTING HEIGHT
T1	36" GRAB BAR (HORIZ.) TO SUPPORT 250 PLF FORCE	A1, A2, A3/G-211	BOBRICK # B-6806 X 36	2'-10" AFF TO CENTER
T2	42" GRAB BAR (HORIZONTAL) TO SUPPORT 250 PLF FORCE	A1, A2, A3/G-211	BOBRICK # B-6806 X 42	2'-10" AFF TO CENTER
T3	18" GRAB BAR (VERTICAL) TO SUPPORT 250 PLF FORCE	A1, A2, A3/G-211	BOBRICK # B-6806 X 18	3'-4" AFF TO BOTTOM
T4	TOILET TISSUE DISPENSER	A1, A2, A3/G-211	BOBRICK # B-2888	2'-4" AFF TO TOP
T5	36" SHOWER CURTAIN ROD	B1/A-401	BOBRICK # B-6047 X 36	6'-4" AFF TO CENTER OF ROD
T6	24" X 36" CHANNEL FRAMED MIRROR (TEMPERED)	B1, B2, B3/G-211	BOBRICK # B-165 2436	3'-4" AFF TO BOTTOM (MAX.)
T7	HOOK STRIP	C4/ G-211	BOBRICK # B-232 X 24	3'-10" AFF (MAX.) TO TOP
T8	SANITARY NAPKIN DISPOSAL	A1, A2, A3/G-211	BOBRICK # B-270	4'-1" AFF TO TOP
T9	DRESSING AREA SEAT	A1/A-401	BOBRICK # B-5193	1'-8" AFF TO TOP OF SEAT
T10	36" X 36" X 96" ACCESSIBLE SHOWER UNIT W/ ACCESSIBLE SHOWER SEAT, GRAB BARS, HAND HELD SHOWER HEAD, CONTROLS, CURB AND DRAIN	C1, C2, C3/G-211		
T11	SURFACE MOUNTED TOWEL BAR	B4/ G-211	BOBRICK # B-545 X 24	4'-0" AFF TO TOP



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ARCHITECT

STATE OF NEW MEXICO
REGISTERED ARCHITECT
ROBERT CALVANI
NO. 1053

CONSULTANT

PROJECT TITLE

SANTA FE COUNTY MADRID FIRE STATION

MADRID
NEW MEXICO

REVISIONS:

NO.	DATE	DESCRIPTION

MK	DATE	DESCRIPTION

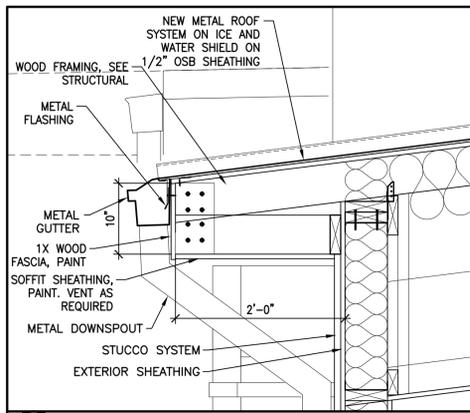
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CHECKED BY: JL

PROJECT NUMBER:
A18.04

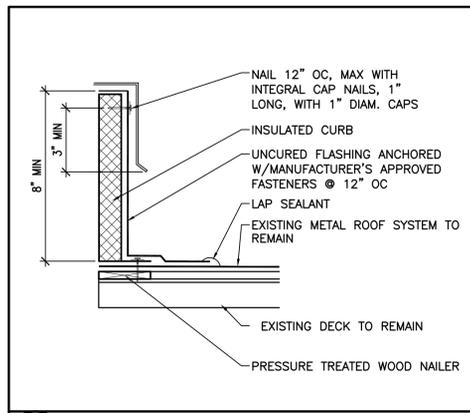
DATE:
11/01/2018

SHEET TITLE:
ENLARGED PLAN AND INTERIOR ELEVATIONS

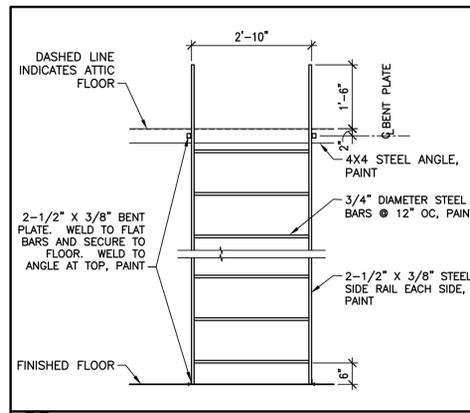
SHEET NO:
A-401



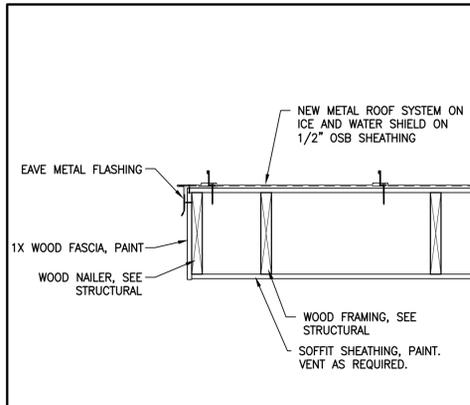
D1 OVERHANG DETAIL
SCALE: 1"=1'-0"



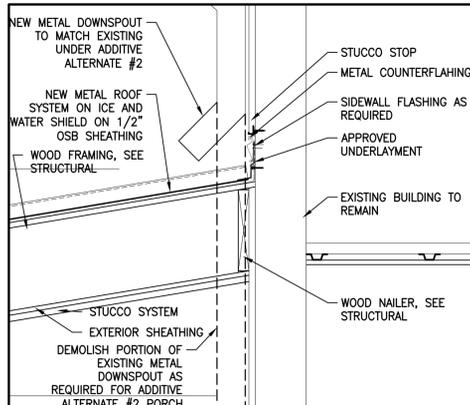
D2 ROOF EQUIPMENT SUPPORT CURB
SCALE: 3"=1'-0"



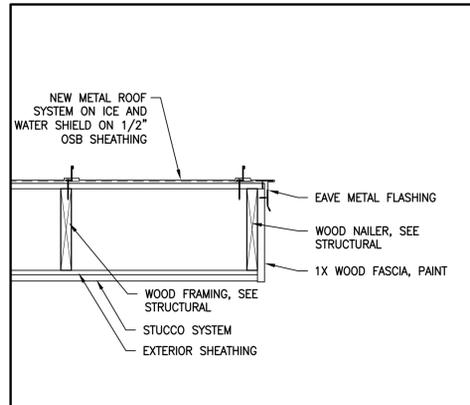
D3 MEZZANINE LADDER
SCALE: 1/2"=1'-0"



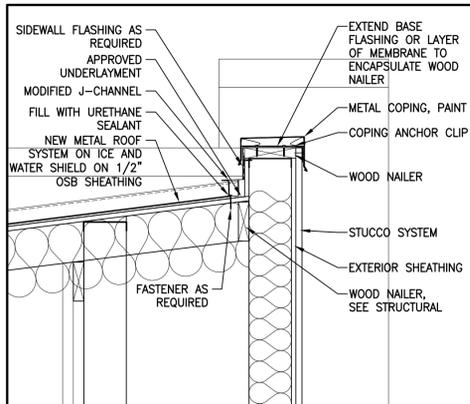
C1 TRIM DETAIL
SCALE: 1"=1'-0"



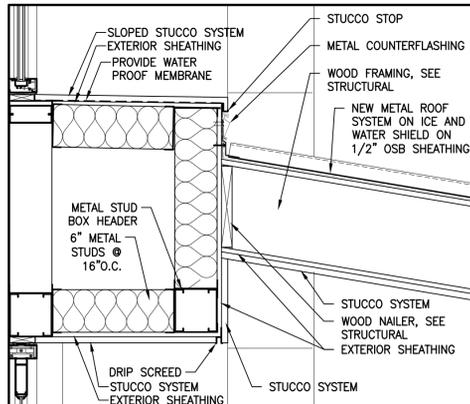
C2 BASE TIE-IN DETAIL AT EXISTING WALL
SCALE: 1"=1'-0"



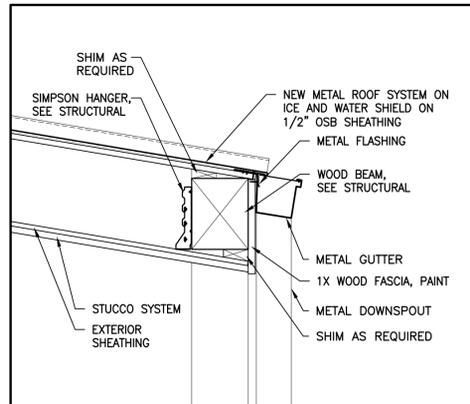
C3 TRIM DETAIL
SCALE: 1"=1'-0"



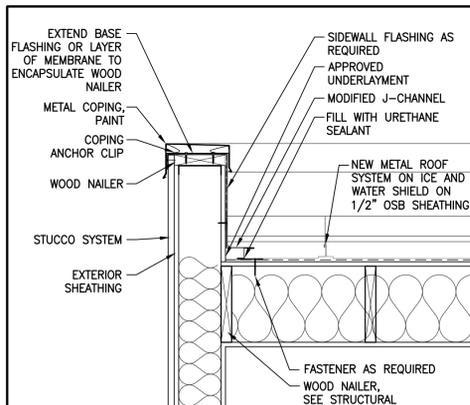
B1 PARAPET DETAIL
SCALE: 1"=1'-0"



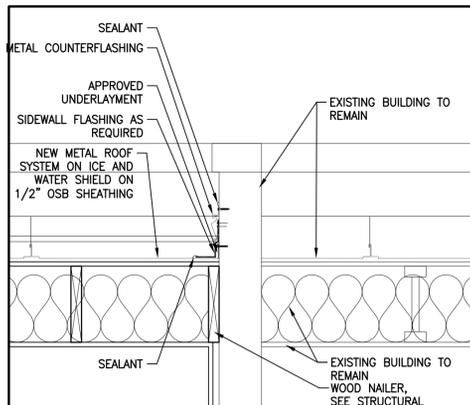
B2 BASE TIE-IN/ DRIP SCREED DETAIL
SCALE: 1"=1'-0"



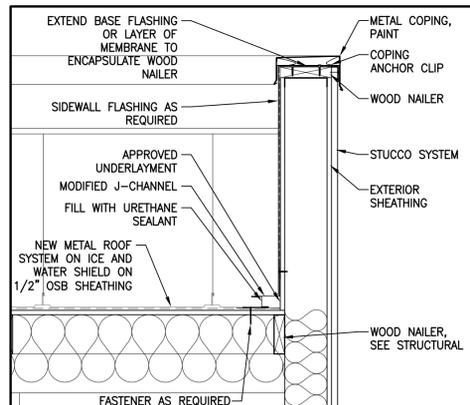
B3 GUTTER DETAIL
SCALE: 1"=1'-0"



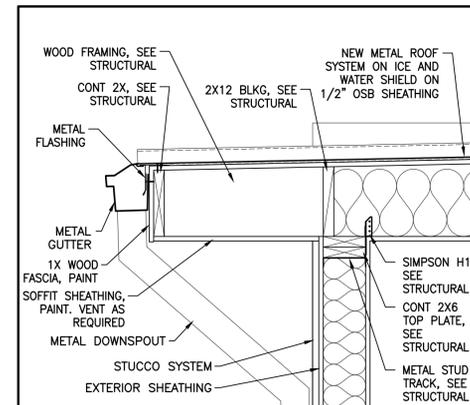
A1 PARAPET DETAIL
SCALE: 1"=1'-0"



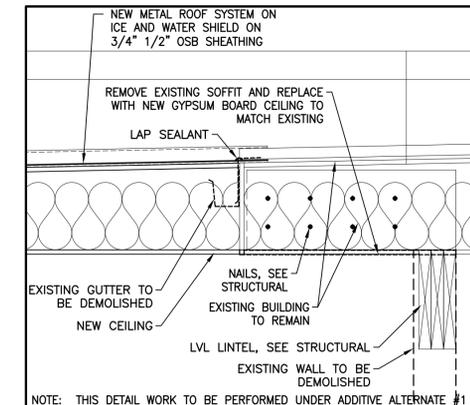
A2 SIDEWALL FLASHING DETAIL
SCALE: 1"=1'-0"



A3 PARAPET DETAIL
SCALE: 1"=1'-0"



A4 OVERHANG DETAIL
SCALE: 1"=1'-0"



A5 NEW TO EXISTING ROOF DETAIL
SCALE: 1"=1'-0"

MK	DATE	DESCRIPTION

MK	DATE	DESCRIPTION

DRAWN BY: WA CHECKED BY: JL

PROJECT NUMBER: A18.04

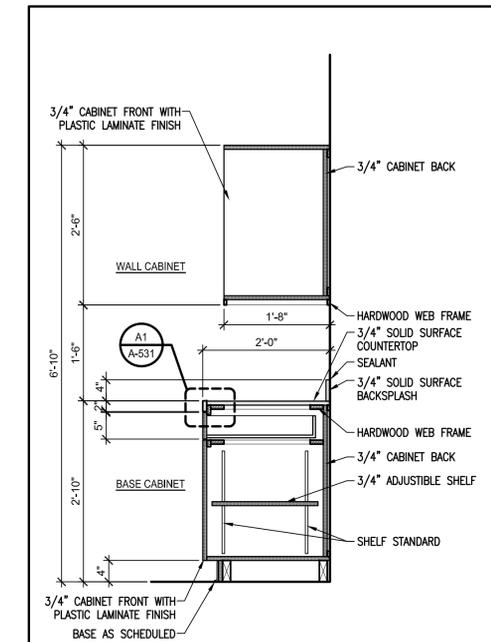
DATE: 11/01/2018

SHEET TITLE:

CASEWORK DETAILS

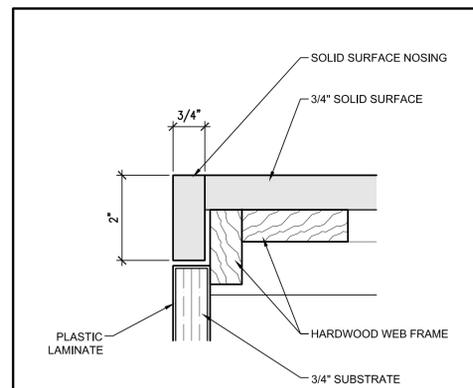
SHEET NO:

A-531



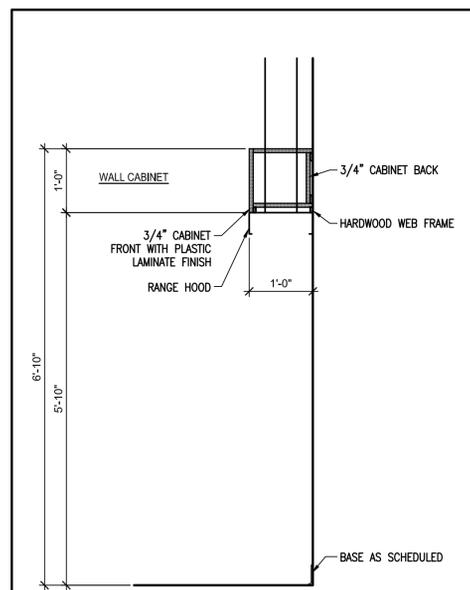
B5 CASEWORK SECTION

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



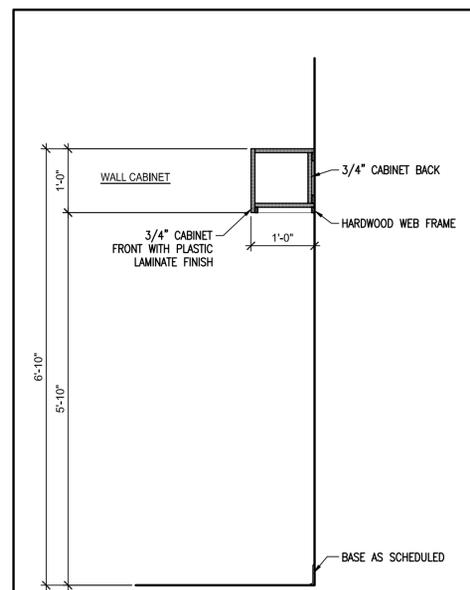
A1 NOSING DETAIL

SCALE: 6"=1'-0"



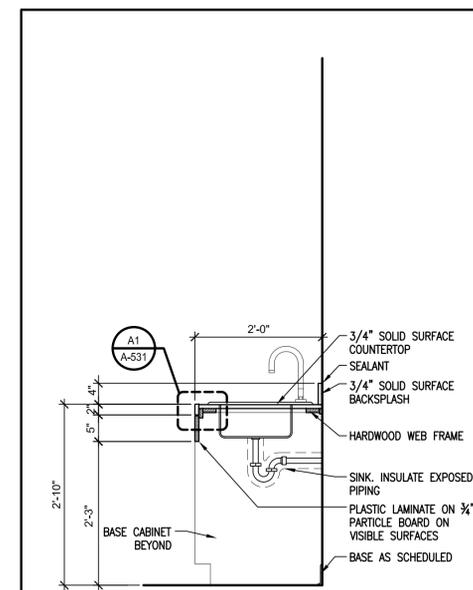
A2 CASEWORK SECTION AT OVEN/RANGE

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



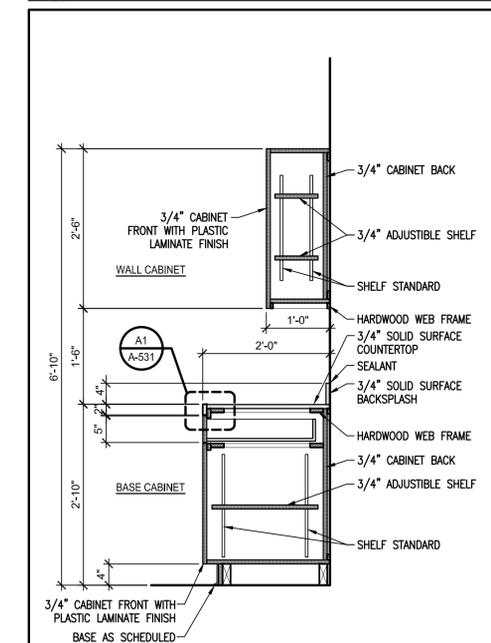
A3 CASEWORK SECTION AT REFRIGERATOR

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



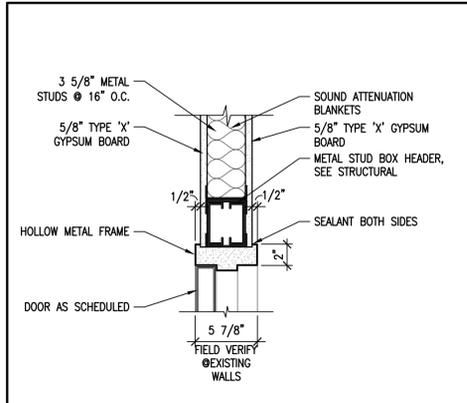
A4 CASEWORK SECTION AT SINK

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

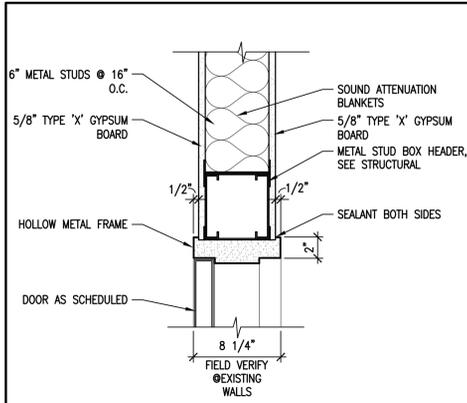


A5 CASEWORK SECTION

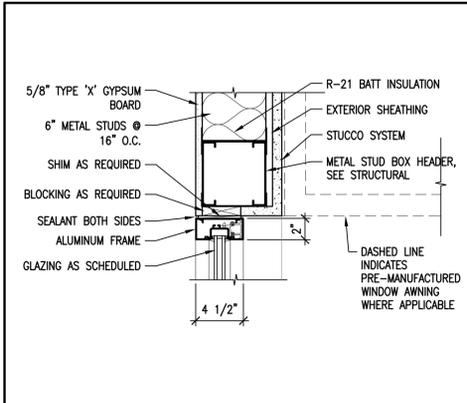
SCALE: 3/4"=1'-0"



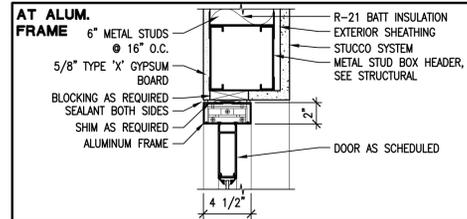
D1 DOOR HEAD DETAIL- HM 3 5/8" STUD - INT. SCALE: 1 1/2"=1'-0"



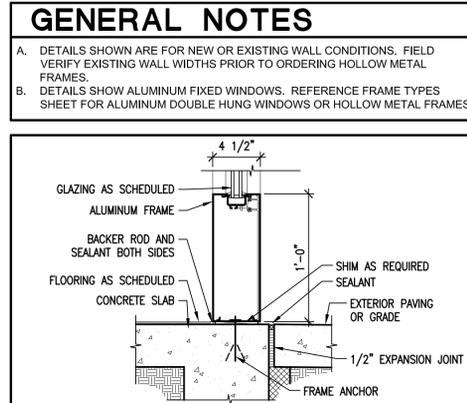
D2 DOOR HEAD DETAIL- HM 6" STUD - INTERIOR SCALE: 1 1/2"=1'-0"



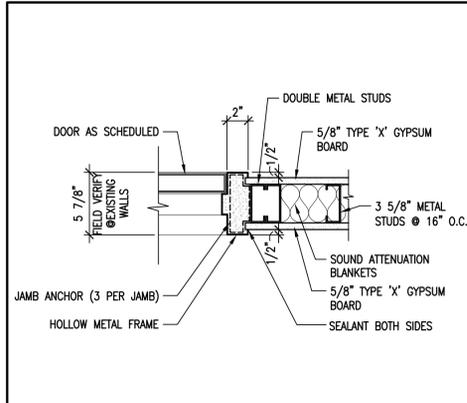
D3 WINDOW HEAD DETAIL- ALUM. 6" STUD - EXTERIOR SCALE: 1 1/2"=1'-0"



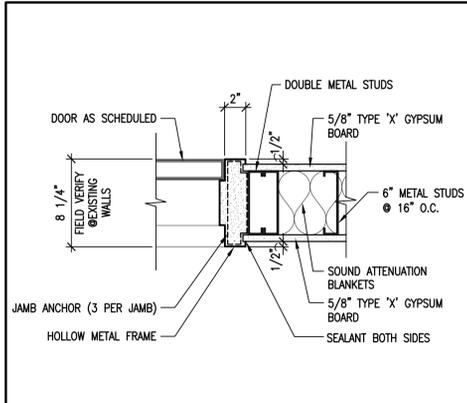
D4 DOOR HEAD DETAIL 6" STUD - EXTERIOR SCALE: 1 1/2"=1'-0"



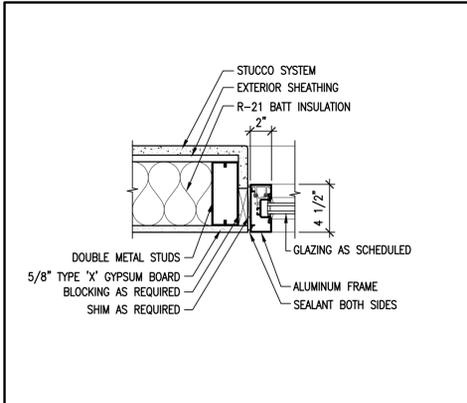
D5 SILL DETAIL- ALUMINUM AT EXTERIOR SCALE: 1 1/2"=1'-0"



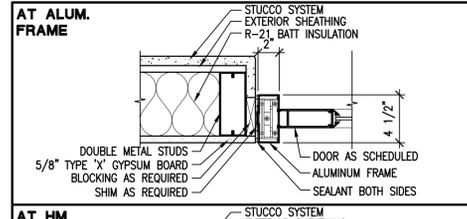
C1 DOOR JAMB DETAIL- HM 3 5/8" STUD - INT. SCALE: 1 1/2"=1'-0"



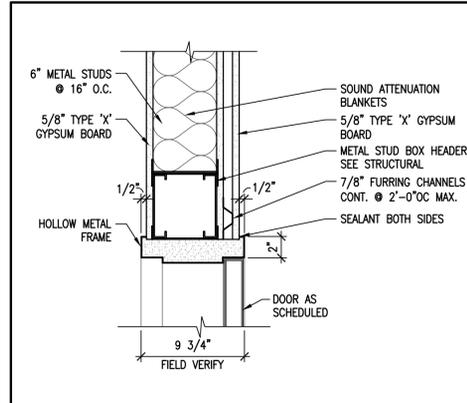
C2 DOOR JAMB DETAIL- HM 6" STUD - INTERIOR SCALE: 1 1/2"=1'-0"



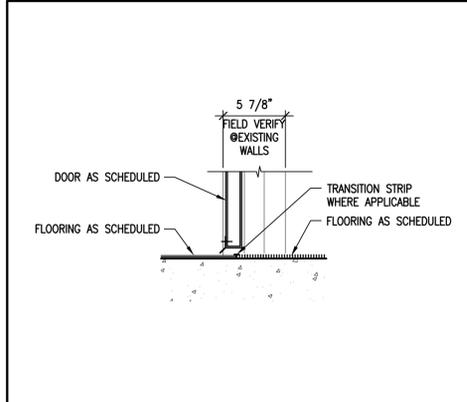
C3 WINDOW JAMB DETAIL- ALUM. 6" STUD - EXTERIOR SCALE: 1 1/2"=1'-0"



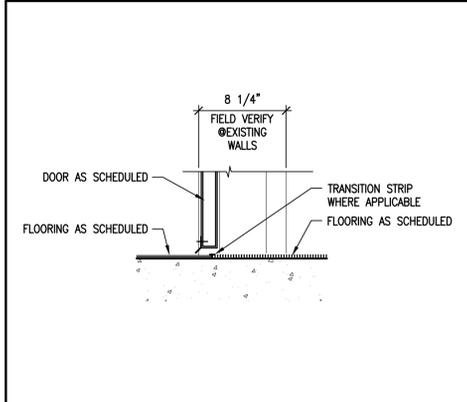
C4 DOOR JAMB DETAIL 6" STUD - EXTERIOR SCALE: 1 1/2"=1'-0"



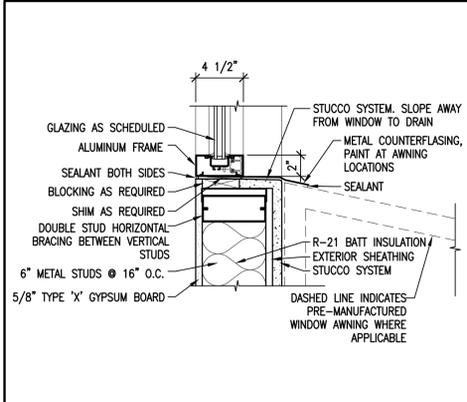
C5 DOOR HEAD DTL- HM 6" STUD 7/8" FURR. - INTERIOR SCALE: 1 1/2"=1'-0"



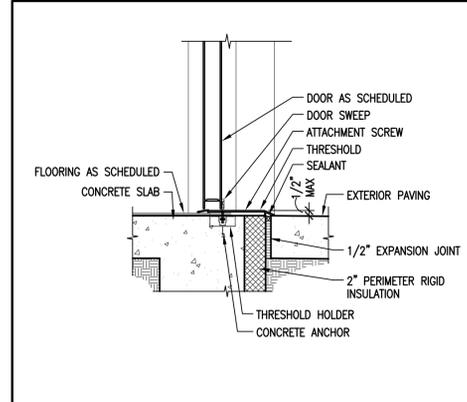
B1 DOOR THRESHOLD SCALE: 1 1/2"=1'-0"



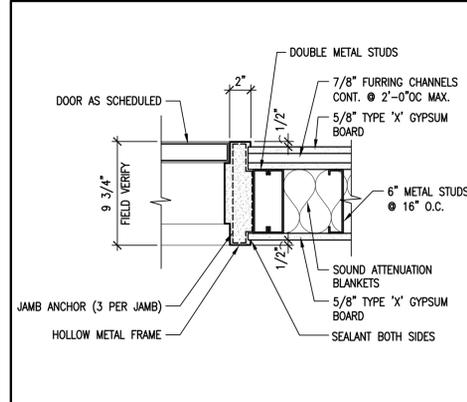
B2 DOOR THRESHOLD SCALE: 1 1/2"=1'-0"



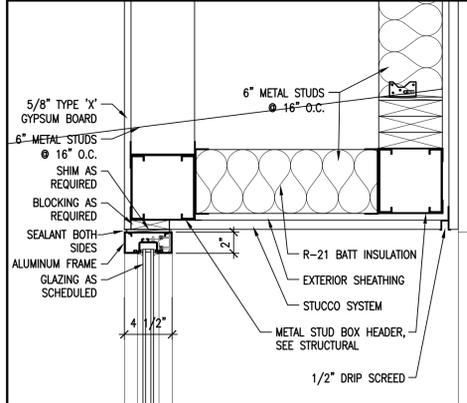
B3 WINDOW SILL DETAIL- ALUM. 6" STUD - EXTERIOR SCALE: 1 1/2"=1'-0"



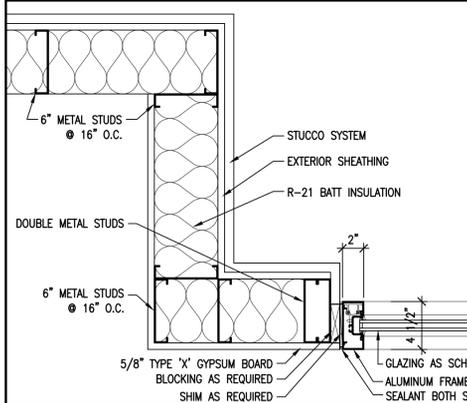
B4 THRESHOLD DETAIL SCALE: 1 1/2"=1'-0"



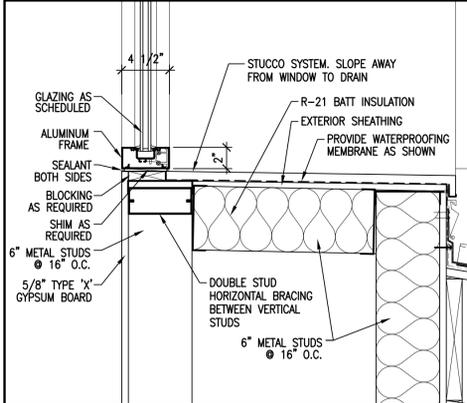
B5 DOOR JAMB DTL- HM 6" STUD 7/8" FURR. - INTERIOR SCALE: 1 1/2"=1'-0"



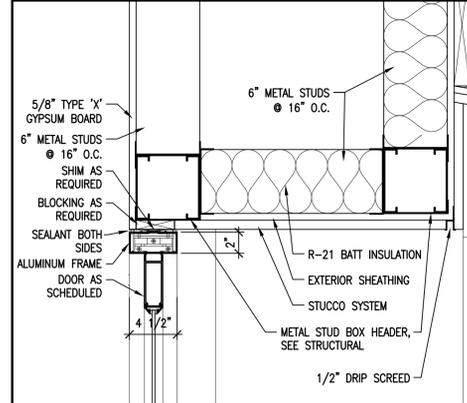
A1 WINDOW HEAD DETAIL- ALUM. 6" STUD - EXTERIOR SCALE: 1 1/2"=1'-0"



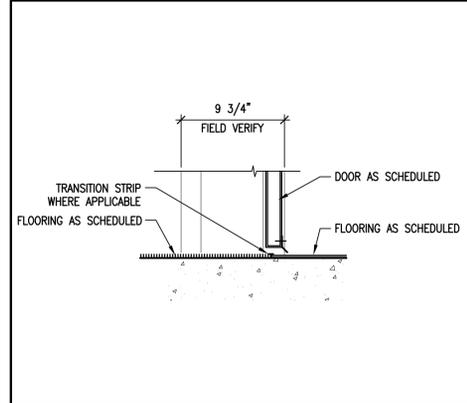
A2 WINDOW JAMB DETAIL- ALUM. 6" STUD - EXTERIOR SCALE: 1 1/2"=1'-0"



A3 WINDOW SILL DETAIL- ALUM. 6" STUD - EXTERIOR SCALE: 1 1/2"=1'-0"



A4 DOOR HEAD DETAIL- ALUM. 6" STUD - EXTERIOR SCALE: 1 1/2"=1'-0"



A5 DOOR THRESHOLD SCALE: 1 1/2"=1'-0"

GENERAL NOTES

A. DETAILS SHOWN ARE FOR NEW OR EXISTING WALL CONDITIONS. FIELD VERIFY EXISTING WALL WIDTHS PRIOR TO ORDERING HOLLOW METAL FRAMES.

B. DETAILS SHOW ALUMINUM FIXED WINDOWS. REFERENCE FRAME TYPES SHEET FOR ALUMINUM DOUBLE HUNG WINDOWS OR HOLLOW METAL FRAMES.



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CONSULTANT

PROJECT TITLE
SANTA FE COUNTY MADRID FIRE STATION

MADRID NEW MEXICO

REVISIONS:

NO.	DATE	DESCRIPTION

MK DATE DESCRIPTION
DRAWN BY: WA CHECKED BY: JL
PROJECT NUMBER: A18.04
DATE: 11/01/2018
SHEET TITLE:

DOOR AND WINDOW DETAILS

SHEET NO:

A-551

GENERAL NOTES
 A. REFERENCE ROOM FINISH SCHEDULE SHEET A-611 FOR FINISHES.
 B. REPLACE 5/8" TYPE "X" GYPSUM BOARD WITH 5/8" W.R. GYPSUM BOARD AT TOILET ROOMS, SHOWER AND WET WALLS.



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PROJECT TITLE

SANTA FE COUNTY MADRID FIRE STATION

MADRID NEW MEXICO

REVISIONS:

NO.	DATE	DESCRIPTION

DRAWN BY: WA CHECKED BY: JL

PROJECT NUMBER:

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DATE:

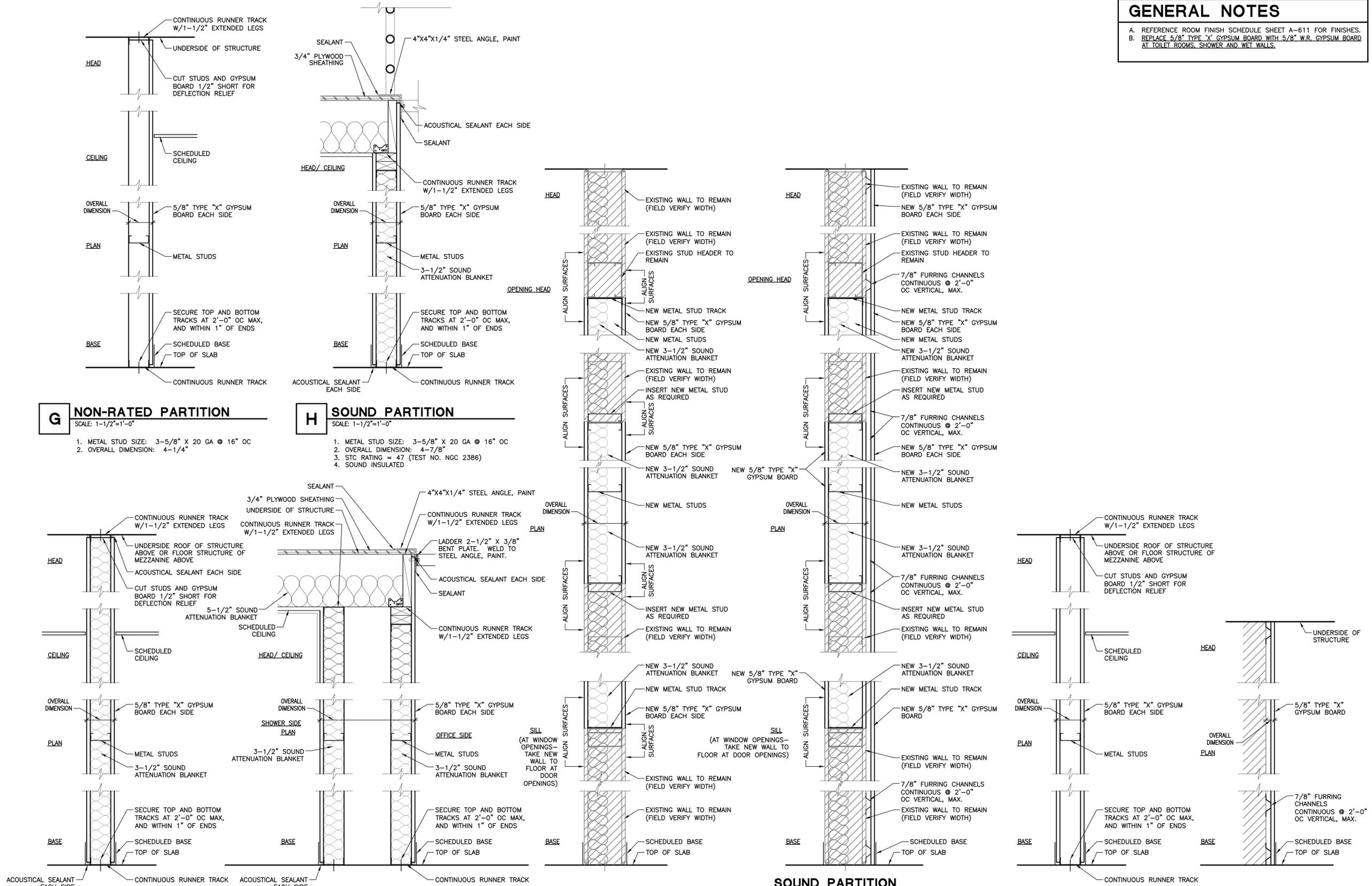
11/01/2018

SHEET TITLE:

PARTITION TYPES

SHEET NO:

A-601



A SOUND PARTITION
 SCALE: 1-1/2"=1'-0"
 1. METAL STUD SIZE: 3-5/8" X 20 GA @ 16" OC
 2. OVERALL DIMENSION: 4-7/8"
 3. STC RATING = 47 (TEST NO. NGC 2386)
 4. SOUND INSULATED

B SOUND PARTITION
 SCALE: 1-1/2"=1'-0"
 1. METAL STUD SIZE: 3-5/8" X 20 GA @ 16" OC
 2. OVERALL DIMENSION: 1'-4 3/4"
 3. STC RATING = 47 (TEST NO. NGC 2386)
 4. SOUND INSULATED

C SOUND PARTITION AT EXISTING OPENING INFILL
 SCALE: 1-1/2"=1'-0"
 1. METAL STUD SIZE: 6" X 20 GA @ 16" OC (FIELD VERIFY METAL STUD SIZE-- NEW STUD SIZE TO BE AS REQUIRED FOR BOTH SIDES TO ALIGN WITH ADJACENT SURFACES)
 2. OVERALL DIMENSION: 7-1/4" (FIELD VERIFY)
 3. STC RATING = 47 (TEST NO. NGC 2386)
 4. SOUND INSULATED

D SOUND PARTITION AT EXISTING OPENING INFILL AND FURRING
 SCALE: 1-1/2"=1'-0"
 1. METAL STUD SIZE: 6" X 20 GA @ 16" OC (FIELD VERIFY METAL STUD SIZE-- NEW STUD SIZE TO BE AS REQUIRED FOR BOTH SIDES TO ALIGN WITH ADJACENT SURFACES)
 2. OVERALL DIMENSION: 7-1/4" (FIELD VERIFY)
 3. STC RATING = 47 (TEST NO. NGC 2386)
 4. SOUND INSULATED

E NON-RATED PARTITION
 SCALE: 1-1/2"=1'-0"
 1. METAL STUD SIZE: 3-5/8" X 20 GA @ 16" OC
 2. OVERALL DIMENSION: 4-7/8"

F FURRING EXISTING WALL
 SCALE: 1-1/2"=1'-0"
 1. METAL CHANNEL SIZE: 7/8" X 20 GA @ 24" OC
 2. OVERALL DIMENSION: 1-1/2"

G NON-RATED PARTITION
 SCALE: 1-1/2"=1'-0"
 1. METAL STUD SIZE: 3-5/8" X 20 GA @ 16" OC
 2. OVERALL DIMENSION: 4-1/4"

H SOUND PARTITION
 SCALE: 1-1/2"=1'-0"
 1. METAL STUD SIZE: 3-5/8" X 20 GA @ 16" OC
 2. OVERALL DIMENSION: 4-7/8"
 3. STC RATING = 47 (TEST NO. NGC 2386)
 4. SOUND INSULATED

GENERAL NOTES

- A. REFERENCE CEILING PLANS FOR CEILING HEIGHTS.
 B. MATCH EXISTING WALL AND CEILING TEXTURES AT NEW ADJACENT TO EXISTING TO REMAIN.



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CONSULTANT

PROJECT TITLE

**SANTA FE
 COUNTY
 MADRID
 FIRE STATION**

**MADRID
 NEW MEXICO**

REVISIONS:

MK	DATE	DESCRIPTION

DRAWN BY: CHECKED BY:

WA JL

PROJECT NUMBER:

A18.04

DATE:

11/01/2018

SHEET TITLE:

**ROOM FINISH
 SCHEDULE**

SHEET NO:

A-611

ROOM FINISH SCHEDULE

RM. NO	ROOM NAME	FLOOR	BASE	WALLS				CLG	REMARKS
				N	E	S	W		
101	EXISTING BAY 1	F1	B1/*B3	W1/*W3	W1	*W3	*W3	C1/*C2	*MATCH NEW WALL, BASE AND CEILING @ ALTERNATE #1 EXTENSION TO EXISTING WALL, BASE AND CEILING TO REMAIN.
102	EXISTING BAY 2	F1	B1	W1	W1	-	W1	C1	
103	EXISTING BAY 3	F1	B1	-	W1	W1	W1	C1	
104	EXISTING BAY 4	F1	B1/*B3	W1	W1	W1/*W3	*W3	C1	*MATCH NEW WALL, BASE AND CEILING TO EXISTING WALL, BASE AND CEILING TO REMAIN.
105	EXERCISE ROOM	F1	B1/*B3	W1	W3	W1	W1	C1	
106	OFFICE	F3	B3	W1/*W3	W1	W1/*W3	W3	C1	*MATCH NEW WALL, BASE AND CEILING TO EXISTING WALL, BASE AND CEILING TO REMAIN.
107	HALL	F2	B3	W3	W3	W1	W1	C2	*MATCH NEW WALL, BASE AND CEILING TO EXISTING WALL, BASE AND CEILING TO REMAIN.
108	MEN	F2	B2	W2/W1	W2/*W3	W2/W1	W2/W1	C1/*C2	*MATCH NEW WALL, BASE AND CEILING TO EXISTING WALL, BASE AND CEILING TO REMAIN.
109	WOMEN	F2	B2	W2/W1	W2/W1	W2/W1	W2/W1	C2	
110	KITCHENETTE	F4	B3	W3/W4	W3/W4	-	-	C3	
111	TRAINING ROOM	F4	B3	W3	W3	W3	W3	C3	
201	MEZZANINE	F5	B4	W1	-	W1/W3	W1	C1	

ROOM FINISH SCHEDULE

MARK	DESCRIPTION
FLOOR FINISH	
F1	EXISTING TO REMAIN
F2	PORCELAIN TILE - 12 X 12 AF04 BROWN AFFINITY BY DAL TILE
F3	LUXURY VINYL TILE (LVT)
F4	NEW EXPOSED POLISHED STAINED CONCRETE, SEAL
F5	EXPOSED 3/4" PLYWOOD SHEATHING
BASE	
B1	EXISTING TO REMAIN
B2	PORCELAIN WALL TILE - SEE W2
B3	4" VINYL BASE
B4	NO BASE
WALL	
W1	EXISTING TO REMAIN, REPAIR AND PAINT
W2	PORCELAIN WALL TILE - 12 X 24 GRAY AF03 AFFINITY BY DAL TILE WITH 2 X 2 BROWN AF04 MOSAIC ACCENT BY DAL TILE AND 3 X 10 BROWN AF04 BULLNOSE BY DAL TILE. SEE INTERIOR ELEVATIONS.
W3	PAINTED GYPSUM BOARD (TAPE, BED, TEXTURE AND PAINT)
W4	PORCELAIN WALL TILE AT COUNTER BACKSPLASHES - 12 X 24 GRAY AF03 AFFINITY BY DAL TILE WITH 2 X 2 BROWN AF04 MOSAIC ACCENT BY DAL TILE. SEE INTERIOR ELEVATIONS.
CEILING (REFERENCE REFLECTED CEILING PLAN SHEET A-121 FOR CEILING HEIGHTS)	
C1	EXISTING TO REMAIN, REPAIR AND PAINT
C2	PAINTED GYPSUM BOARD (TAPE, BED, TEXTURE AND PAINT)
C3	PAINTED GYPSUM BOARD (TAPE, BED, TEXTURE AND PAINT) WITH EXPOSED WOOD BEAMS, STAIN AND SEAL

GENERAL NOTES

A. REFERENCE SPECIFICATIONS FOR PANIC HARDWARE AND SEE DETAIL D1/G-211 WHERE REQUIRED.

KEYED NOTES

1. DASHED LINE INDICATES EXIT DEVICE. SEE GENERAL NOTE A ABOVE.
 2. PRE-MANUFACTURED WINDOW COVERING.
 3. WINDOW DETAILING TO MATCH EXISTING CONDITION.

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ARCHITECT

STATE OF NEW MEXICO
 REGISTERED ARCHITECT

ROBERT CALVANI
 NO. 1053

CONSULTANT

PROJECT TITLE

**SANTA FE COUNTY
 MADRID
 FIRE STATION**

MADRID
 NEW MEXICO

REVISIONS:

NO.	DATE	DESCRIPTION

MK DATE DESCRIPTION

DRAWN BY: WA CHECKED BY: JL

PROJECT NUMBER:

A18.04

DATE:

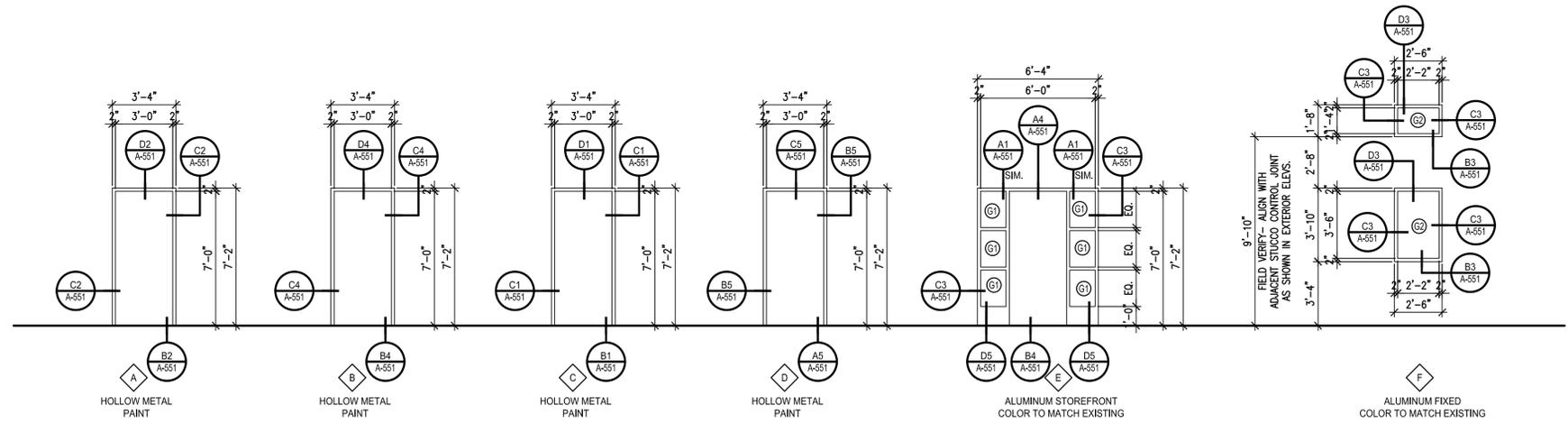
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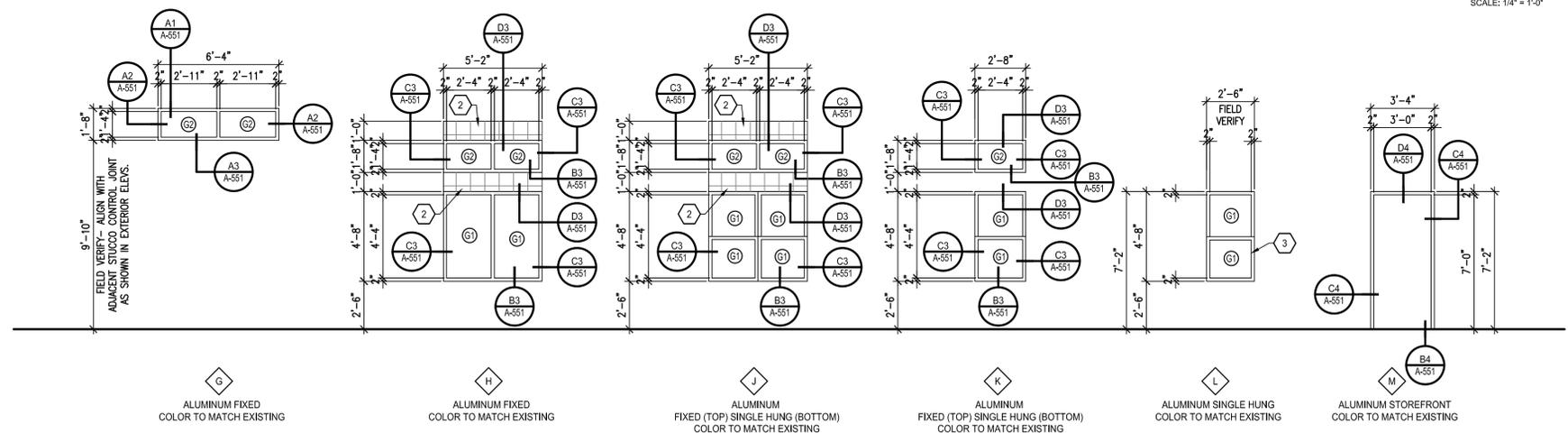
DOOR AND FRAME TYPES/
 WINDOW TYPES,
 SCHEDULES

SHEET NO.:

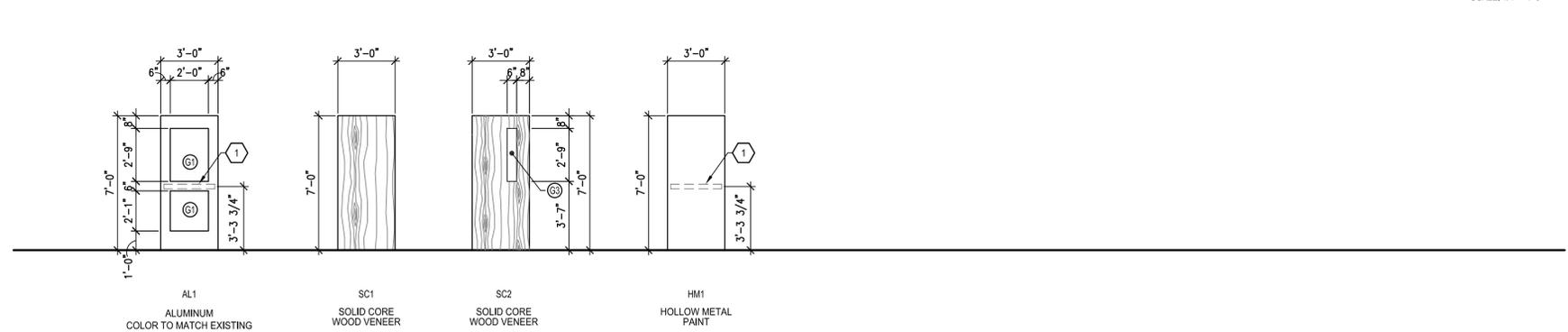
A-621



C1 DOOR FRAME TYPES



B1 WINDOW FRAME TYPES



A1 DOOR TYPES



GLAZING TYPES

(G1)	1" INSULATED TEMPERED GLASS, TINT TO MATCH EXISTING WINDOWS TO REMAIN
(G2)	1" INSULATED GLASS, TINT TO MATCH EXISTING WINDOWS TO REMAIN
(G3)	1/4" TEMPERED CLEAR GLASS

DOOR SCHEDULE

DOOR NO	SGL	PR	DOOR				FRAME TYPE	RATING	REMARKS
			WIDTH	HEIGHT	THICK	TYPE			
105A	*		3'-0"	7'-0"	1 3/4"	SC2	A		
105B	*		3'-0"	7'-0"	1 3/4"	HM1	B		
106A	*		3'-0"	7'-0"	1 3/4"	SC2	A		
106B	*		3'-0"	7'-0"	1 3/4"	SC2	C		
106C	*		3'-0"	7'-0"	1 3/4"	AL1	M	FIELD VERIFY EXISTING OPENING	
107	*		3'-0"	7'-0"	1 3/4"	SC1	D		
108	*		3'-0"	7'-0"	1 3/4"	SC1	C		
109	*		3'-0"	7'-0"	1 3/4"	SC1	A	FIELD VERIFY EXISTING OPENING	
110	*		3'-0"	7'-0"	1 3/4"	AL1	E		



YES REQUIRED HEAT PUMPS USED NOT REQUIRED

EQUIPMENT TYPE	DRAWING SYMBOL(S)	SIZE CATEGORY	SUBCATEGORY OR RATING CONDITION	REQUIRED PERFORMANCE	COMPLIES
WATER HEATER, ELECTRIC		<= 12 kW	RESISTANCE	0.97 - 0.00132V, EF	<input type="checkbox"/>
WATER HEATER, ELECTRIC		> 12 kW	RESISTANCE	1.73V + 155SL, BTU/H	<input type="checkbox"/>
WATER HEATER, GAS	WH-1	<= 75,000 BTU/H AND	> 20 gal.	0.67 - 0.0019V, EF	<input checked="" type="checkbox"/>
WATER HEATER, GAS		> 75,000 BTU/H AND <= 155,000 BTU/H	< 4,000 BTU/H GAL.	80% ET	<input type="checkbox"/>
WATER HEATER, GAS		> 155,000 BTU/H	< 4,000 BTU/H GAL.	80% ET	<input type="checkbox"/>

504.3 TEMPERATURE CONTROLS
SERVICE WATER-HEATING EQUIPMENT SHALL BE PROVIDED WITH CONTROLS TO ALLOW A SETPOINT OF 110° F (43° C) FOR EQUIPMENT SERVING DWELLING UNITS & 90° F (32° C) FOR EQUIPMENT SERVING OTHER OCCUPANCIES. THE OUTLET TEMPERATURE OF LAVATORIES IN PUBLIC FACILITY RESTROOMS SHALL BE LIMITED TO 110° F (43° C).

504.4 HEAT TRAPS
WATER-HEATING EQUIPMENT NOT SUPPLIED WITH INTEGRAL HEAT TRAPS AND SERVING NON-CIRCULATING SYSTEMS SHALL BE PROVIDED WITH HEAT TRAPS ON THE SUPPLY AND DISCHARGE PIPING ASSOCIATED WITH THE EQUIPMENT.

504.5 PIPE INSULATION
AUTOMATIC-CIRCULATING HOT WATER SYSTEMS. THE FIRST 8 FT. OF PIPE SHALL REQUIRE R-4 FOR PIPES 2" AND LESS, R-6 FOR PIPES 2" AND GREATER. PIPING SHALL BE INSULATED TO A MINIMUM OF R-4 FOR PIPES 2" AND LESS, R-6 FOR PIPES 2" AND GREATER.
NON-CIRCULATING HOT WATER SYSTEMS. THE FIRST 8 FT. OF PIPING SERVED BY EQUIPMENT WITHOUT INTEGRAL HEAT TRAPS SHALL BE INSULATED WITH 0.5 INCHES OF MATERIAL, NOT EXCEEDING 0.27 BTU/INCH.

INSULATION NOTE

REQUIREMENTS FOR INSULATION:
ALL HOT WATER LINES SHALL BE INSULATED WITH MIN. 1" R-4 FIBERGLASS INSULATION.
COLD WATER LINES SHALL BE INSULATED WITH MIN. 1" R-4 FIBERGLASS INSULATION AS NOTED.
COLD WATER LINES LOCATED IN EXTERIOR WALL CAVITIES, EXPOSED NON-CONDITIONED SPACES, AND NON-RETURN AIR PLENUMS SHALL BE INSULATED.
COLD WATER LINES LOCATED IN INTERIOR WALL CAVITIES, EXPOSED CONDITIONED SPACES, AND RETURN AIR PLENUMS ARE NOT REQUIRED TO BE INSULATED.
ALL ROOF DRAIN LINES SHALL BE INSULATED WITH MIN. 1" R-4 FIBERGLASS INSULATION.

SANITARY SEWER NOTE

ALL WASTE PIPE SHALL BE SLOPED 1/4" PER FOOT OR 2 PERCENT. 4" AND LARGER WASTE PIPE MAY BE SLOPED AT 1/8" PER FOOT OR 1 PERCENT IF CONDITIONS OF UPC 2012 SECTION 708.0 ARE MET AND APPROVED BY THE AUTHORITY HAVING JURISDICTION.

GENERAL FIRE STOPPING NOTE

ALL PIPE PENETRATIONS OF FIRE RATED WALLS AND FLOORS SHALL BE PROTECTED WITH APPROVED FIRE STOPPING ASSEMBLIES AS MANUFACTURED BY 3M INDUSTRY, OR APPROVED EQUAL. THE ASSEMBLIES SHALL COMPLY WITH THE LATEST APPLICABLE REQUIREMENTS OF NFPA 5000, NFPA 13 AND OWNERS INSURANCE. PROPOSED APPLICABLE ASSEMBLIES SHALL BE UL LISTED AND SHALL BE PART OF THE PLUMBING EQUIPMENT SUBMITTALS.

FIXTURE UNIT CALCULATIONS (2012 UPC APPENDIX A, TABLE A-2)

SYMBOL	DESCRIPTION	QUANTITY	F.U. EA.		F.U. TOTAL	
			CW	HW	CW	HW
P-1	WATER CLOSETS, FLUSH TANK, 1.28 GPF	2	2.50	---	5.00	---
P-2	LAVATORIES	2	1.00	1.00	2.00	2.00
P-3	SHOWER	1	1.50	1.50	1.50	1.50
P-4	SINGLE SINK	1	1.50	1.50	1.50	1.50
P-5	MOP BASIN	1	2.00	2.00	2.00	2.00
WMB	WASHING MACHINE BOX	1	2.00	2.00	2.00	2.00
TOTAL FIXTURE LOAD					14.00	9.00

COLD WATER SYSTEM
XX GPM REQUIRES
X" SERVICE LINE @ APPROXIMATELY 2 PSI/100' PD (1" THRU 4" SELECTIONS)
X" SERVICE LINE @ APPROXIMATELY 2 PSI/100' PD (1" THRU 4" SELECTIONS)

HOT WATER SYSTEM
X GPM REQUIRES
3/4" MAIN LINE @ APPROXIMATELY 1.5 PSI/100' PD (3/4" THRU 3" SELECTIONS)

SANITARY FIXTURE UNIT CALCULATIONS

SYMBOL	DESCRIPTION	TRAP SIZE	QUANTITY	F.U. EA.	F.U. TOTAL
P-1	WATER CLOSETS, FLUSH TANK	3" MIN.	2	4.00	8.00
P-2	LAVATORIES	1-1/2"	2	1.00	2.00
P-3	SHOWER DRAIN	2" MIN.	1	2.00	2.00
P-4	SINGLE SINK	1-1/2"	1	2.00	2.00
P-5	MOP BASIN	3" MIN.	1	3.00	3.00
WMB	WASHING MACHINE BOX	2" MIN.	1	3.00	3.00
TOTAL FIXTURE LOAD					20.00

(E) 3" WASTE LINE SIZE IS ACCEPTABLE

LP GAS LOAD CALCULATIONS

EQUIPMENT	DESCRIPTION	EXISTING, NEW OR REPLACMT	CONNECTION	QTY	BTUH EA.	MBH EA.	TOTAL MBH
RTU-1 AND RTU-2	ROOFTOP UNITS	NEW	LINE	2	40,000	40	80
ADDED GAS LOAD TO LP TANK							80

PIPING

	LF	PRESSURE
MAXIMUM DEVELOPED LENGTH	200	
DESIRED PRESSURE LEAVING LP TANK REGULATOR ASSEMBLY		14" WC

ELECT. WATER HEATER CALCULATIONS

FIXTURE	QUANTITY	GAL. PER HOUR	TOTAL GALLONS PER HOUR
LAVATORIES	2	2.00	4.00
SHOWER	1	20.00	20.00
SINK	1	5.00	5.00
MOP BASIN	1	15.00	15.00
WASHING MACHINE BOX	1	12.00	12.00
			56.00

56 GAL. X 80F X 8.33 X .84 = 9.0 KW REQUIRED.
0.88 X 3412 BTU/KW = 3343.76
MINIMUM 56 GPH RECOVERY AND 9.0 KW INPUT REQUIRED FOR WATER HEATER.

LEGEND

SYMBOL	DESCRIPTION	ABBREVIATION
	SOIL, WASTE OR SANITARY SEWER	SAS
GW	GREASE WASTE	GW
---	VENT (SANITARY, GREASE, ETC.)	V
---	COLD WATER	CW
---	HOT WATER (120°F OR BELOW)	HW
---	HOT WATER RETURN	HWR
SS	STORM SEWER (ROOF DRAINAGE)	SS
NG	NATURAL GAS - LOW PRESSURE (7" W.C.)	NG
	GATE VALVE	
	BALL VALVE	
	CAPPED OR PLUGGED TEE	
	UNION (SCREWED)	
	HOSE BIB	HB
	RECESSED BOX WALL HYDRANT	WH
(V)	GAS COCK, GAS STOP	
	CLEAN-OUT TO GRADE WITH CONCRETE COLLAR	
NG	GAS PRESSURE REGULATOR	
	FLOW - IN DIRECTION OF ARROW	
	VALVE IN RISER (TYPE AS SPECIFIED OR NOTED)	
	RISER DOWN (ELBOW)	
	RISER UP (ELBOW)	
	RISE OR DROP	
	BRANCH - TOP CONNECTION	
	BRANCH - BOTTOM CONNECTION	
	BRANCH - SIDE CONNECTION	
VTR	VENT THRU ROOF	VTR
	WATER HAMMER ARRESTOR	WHA

GENERAL PLUMBING NOTE:

GOVERNING CODES PROVIDE MINIMUM REQUIREMENTS AND MAY NOT NECESSARILY MEET HIGHER STANDARD REQUIREMENT OF THE CONTRACT DOCUMENTS. THEREFORE THE CONTRACTOR SHALL NOT BE RELIEVED OF THE RESPONSIBILITY FOR ANY DEVIATION FROM THE REQUIREMENTS OF THE CONTRACT DOCUMENTS.

MODIFICATION TO THE CONTRACT DOCUMENTS MAY OCCUR AS:
1. A WRITTEN AMENDMENT TO THIS DOCUMENT AND SIGNED BY BOTH CONTRACTOR AND ARCHITECT.
2. A CHANGE ORDER.
3. A WRITTEN INTERPRETATION OF THE DOCUMENTS ISSUED BY THE ARCHITECT.
4. OR A WRITTEN REQUEST FROM THE ARCHITECT FOR MINOR CHANGES TO REQUIRED WORK.

THE CONTRACTOR SHALL PROMPTLY CORRECT AND BEAR ALL ASSOCIATED COSTS OF ALL WORK REJECTED BY THE ARCHITECT FOUND TO BE DEFECTIVE OR NON-COMPLYING TO CONTRACT DOCUMENTS WHETHER OBSERVED BEFORE, OR AFTER SUBSTANTIAL COMPLETION, AND WHETHER OR NOT FABRICATED, INSTALLED, OR COMPLETED.

ANY PORTION OF THE WORK TO BE COVERED MAY BE OBSERVED BY THE ARCHITECT PRIOR TO COVERING OF WORK. CONTRACTOR SHALL NOTIFY THE ARCHITECT IN WRITING, A MINIMUM OF SEVEN (7) CALENDAR DAYS PRIOR TO ANY WORK BEING COVERED. IF ANY PORTION OF THE WORK SHOULD BE COVERED CONTRARY TO THE REQUIREMENTS SPECIFICALLY EXPRESSED IN THE CONTRACT DOCUMENTS, IT MUST, IF REQUIRED IN WRITING BY THE ARCHITECT, BE UNCOVERED FOR THE ARCHITECT'S OBSERVATION, AND SHALL BE REPLACED AT THE CONTRACTOR'S EXPENSE.

SYSTEMS TO BE OBSERVED PRIOR TO COVERING:
1. SOIL, WASTE AND VENT PIPING.
2. ROOF DRAINAGE PIPING.
3. DOMESTIC COLD AND HOT WATER PIPING.
4. FIRE PROTECTION PIPING.

ALL AUTOMATIC OR SELF-CLOSING VALVES FOR FAUCETS SHALL BE ADJUSTED IN ACCORDANCE WITH THE MANUFACTURER'S INSTRUCTIONS AND SUPERVISED, AS NECESSARY, BY EQUIPMENT SUPPLIER'S REPRESENTATIVE AT THE REQUEST OF THE ARCHITECT OR ENGINEER.

CONTRACTOR SHALL VERIFY THAT ALL HANDICAPPED FIXTURES, ROUGH-INS AND COMPLETE INSTALLATION COMPLY WITH ALL ADA/ABAAG REQUIREMENTS.

ALL PLUMBING FIXTURES ABOVE SHALL HAVE CHROME PLATED FINISH ON ALL EXPOSED SUPPLY PIPING, VALVE STOPS, TAILPIECES, P-TRAPS, AND ESCUTCHEONS. ESCUTCHEONS SHALL BE PROVIDED AT ALL WALL PENETRATIONS OF SUPPLY AND WASTE LINES.

PROVIDE WATER HAMMER ARRESTOR FOR BOTH CW AND HW SUPPLY LINES PER CURRENT UNIFORM PLUMBING CODE.



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11/01/2018
CONSULTANT

PROJECT TITLE

SANTA FE COUNTY MADRID FIRE STATION

MADRID NEW MEXICO

REVISIONS:

NO.	DATE	DESCRIPTION

MARK DATE DESCRIPTION

DRAWN BY: HRM CHECKED BY: PS

PROJECT NUMBER: A18.04

DATE: 11/01/2018

SHEET TITLE:

PLUMBING INFORMATION & CALCULATIONS

SHEET NO.:

P-001



95% CONSTRUCTION DOCUMENTS - NOT FOR CONSTRUCTION

PLUMBING SPECIFICATIONS:

- 1. GENERAL:
 - A. PROVIDE ALL NECESSARY LABOR, MATERIALS, EQUIPMENT, SERVICES AND INSURANCES TO COMPLETE THE PLUMBING WORK WITHIN THE FULL INTENT OF THE DRAWINGS AND SPECIFICATIONS CONTAINED HEREON. PLUMBING CONTRACTOR SHALL PROVIDE ALL NECESSARY PERMITS AND FEES.
 - B. ALL WORK SHALL BE IN ACCORDANCE WITH ALL APPLICABLE CODES, RULES AND LOCAL REQUIREMENTS.
 - C. GUARANTEE ALL WORK AND MATERIALS FOR A PERIOD OF ONE YEAR UNLESS NOTED OTHERWISE.
 - D. DRAWINGS ARE DIAGRAMMATIC AND SHOW BASIC SIZING. CONTRACTOR TO COORDINATE THE ROUTING OF ALL NEW PIPING ABOVE THE CEILING WITH EXISTING NEW DUCTWORK, PIPING, LIGHTING, STRUCTURE, ETC.
 - E. ANY MAJOR RE-ROUTING SHALL BE BROUGHT TO THE ATTENTION OF THE OWNER'S REPRESENTATIVE FOR APPROVAL.
- 2. DESCRIPTION OF WORK:
 - A. PROVIDE AND INSTALL WATER, WASTE, CONDENSATE, AND VENT PIPING, VALVES, PLUMBING FIXTURES, WATER HEATERS, AND ACCESSORIES, AS INDICATED.
- 3. SUBMITTALS:
 - A. FURNISH SUBMITTALS FOR ALL BUT NOT LIMITED TO THE FOLLOWING ITEMS:
 - a. PLUMBING FIXTURES,
 - b. WATER HEATERS,
 - c. PLUMBING FIXTURE BRASS AND SPECIALTIES,
 - d. PLUMBING PIPING,
 - e. INSULATION,
 - f. HANGERS AND SUPPORTS.
- 4. PIPING:
 - A. SANITARY SEWER AND VENT PIPING BELOW GRADE: ABS PIPE OR SCH 40 PVC. ABS PIPE SHALL BE ASTM D2661 OR ASTM D2751 WITH ABS FITTINGS. JOINTS SHALL BE ASTM D2335. SOLVENT WELD. PVC PIPE SHALL BE ASTM D2665 OR ASTM D3034. FITTINGS SHALL BE PVC ASTM D2885 SOLVENT WELD WITH ASTM D2564 SOLVENT CEMENT.
 - B. SANITARY SEWER AND VENT PIPING ABOVE GRADE: SERVICE WEIGHT CAST IRON CISPI 301, HUBLESS, SERVICE WEIGHT. FITTINGS: CAST IRON. JOINTS: NEOPRENE GASKETS AND STAINLESS STEEL CLAMP-AND-SHIELD ASSEMBLIES. FITTINGS LOCATED WITHIN FIRE RATED WALLS MUST HAVE FULL COVERAGE SHIELDS APPROVED FOR SUCH USE.
 - C. ALL VENT PIPING LOCATED ABOVE CEILING SHALL HAVE MIN. 1/4" PER FOOT SLOPE OR AS APPROVED BY THE ENGINEER.
 - D. DOMESTIC WATER PIPING SHALL BE TYPE "L" HARD DRAWN COPPER WITH WROUGHT COPPER FITTINGS. USE 100% LEAD FREE SOLDER ON PIPING 2" AND UNDER AND SILVER BRAZED JOINTS ON PIPING OVER 2". OMIT BRAZED JOINTS ON ANY THREAD ADAPTERS AND CAST VALVES AND FLANGES - USE 955.
 - E. CONDENSATE DRAIN PIPING FOR FOR HVAC SYSTEMS SHALL BE TYPE "M" HARD DRAWN COPPER WITH WROUGHT COPPER FITTINGS. COORDINATE INSTALLATION WITH ALL OTHER TRADES. PROVIDE END OF LINE CLEANOUTS AT EVERY 90 DEGREE ELL. COORDINATE INSTALLATION WITH THE MECHANICAL CONTRACTOR.
 - F. ALL HOT WATER STOPS AND TRAP PIPING LOCATED BELOW EACH LAV SHALL BE INSULATED WITH PRODUCTS AS INDICATED.
 - G. CONCEAL ALL PIPING WHERE POSSIBLE.
 - H. ALL FITTINGS SHALL BE ACCEPTED FITTINGS FOR THE APPLICATION.
 - I. INSTALL SUFFICIENT HANGERS ON ALL HORIZONTAL PIPING NOT OVER 4 FEET APART AND AT ALL TURNS. PIPING SHALL HAVE SUFFICIENT HANGERS TO KEEP SYSTEMS IN ALIGNMENT. ANCHOR PIPING AS REQUIRED.
 - J. INSTALL FIRST QUALITY BALL VALVES DESIGNED FOR THE APPLICATION. KITZ AND NIBCO ARE ACCEPTABLE MANUFACTURERS. VALVES SHALL BE BRASS FULL PORT, TWO PIECE BLOW OUT PROOF, LEVER HANDLE SCREWED OR SOLDER JOINT MAY BE USED IN LIEU OF GATE VALVE UNDER 2" SIZE.
 - K. ALL NEW PIPING SHALL BE DOMESTIC. FOREIGN PIPING WILL NOT BE ALLOWED.
- 5. OTHER MATERIAL:
 - A. ALL OTHER MATERIAL, NOT SPECIFICALLY DESCRIBED BUT REQUIRED FOR A COMPLETE JOB, SHALL BE NEW AND FIRST QUALITY, FURNISHED AND INSTALLED BY THE PLUMBING CONTRACTOR.
- 6. WORKMANSHIP:
 - A. ALL WORK TO BE PERFORMED BY QUALIFIED PERSONNEL NORMALLY ENGAGED IN THE RESPECTIVE LINE OF WORK.
 - B. THIS CONTRACTOR IS RESPONSIBLE FOR PERFORMING ALL WORK ACCEPTABLE TO THE OWNER'S REPRESENTATIVE.
 - C. ENSURE THE EXPOSED ENDS OF ALL PLUMBING PIPING ARE PROVIDED WITH TEMPORARY CAPS DURING CONSTRUCTION.
- 7. SUPPORT:
 - A. SUPPORT ALL WATER AND VENT PIPING IN PLUMBING WALLS WITH HOLD-RITE PIPE SUPPORT SYSTEM OR EQUAL. ENSURE ALL VERTICAL COPPER WATER PIPING WITHIN WALLS ARE TIGHTLY SECURED (LOSE PIPING INSTALLATION WILL NOT BE ACCEPTED).
 - B. ALL PIPING AT FLUSH VALVES TO BE HELD SECURELY IN PLACE TO PREVENT MOVEMENT IN ANY DIRECTION.
 - C. ALL PIPING SERVING FAUCET SET AT THE SERVICE SINK TO BE HELD SECURELY IN PLACE TO PREVENT MOVEMENT IN ANY DIRECTION.
- 8. ISOLATION:
 - A. ISOLATE ALL DISSIMILAR METALS WITH ISOLATORS EQUALING OR EXCEEDING THE QUALITY OF "EPCO" DIELECTRIC UNIONS.
 - B. ISOLATE ALL COPPER PIPING FROM DISSIMILAR SUPPORTS.
 - C. ISOLATE ALL PIPING THROUGH CONCRETE WITH 1/2" CLOSED CELL FOAM.
 - D. ISOLATE ALL PIPING AT STUDS WITH POLYETHYLENE PIPE INSULATORS MODEL P.I. AS MANUFACTURED BY SPECIALTY PRODUCTS COMPANY OR EQUAL.
- 9. CUTTING AND PATCHING:
 - A. ALL WORK SHALL BE DONE BY QUALIFIED PERSONNEL NORMALLY ENGAGED IN THE RESPECTIVE WORK REQUIRED.
 - B. CUTTING OF ALL OPENINGS AT THE EXISTING SHELL BUILDING SHALL BE COORDINATED WITH THE GENERAL CONTRACTOR.
- 10. TEST AND CHLORINATION:
 - A. ALL PIPING SHALL BE TESTED BEFORE WORK IS CONCEALED. NOTIFY THREE DAYS PRIOR TO TESTS.
 - B. FLUSH ALL PIPING TO REMOVE ANY FOREIGN MATERIAL.
 - C. CHLORINATE ALL NEW WATER PIPING PRIOR TO USE FOR 24-HOUR PERIOD WITH A MINIMUM OF 50 PARTS PER MILLION OR AS REQUIRED TO ACHIEVE A CHLORINE RESIDUAL OF 10 MILLIGRAMS PER LITER AT COMPLETION OF A 24-HOUR PERIOD. ALL PROCEDURES SHALL BE IN ACCORDANCE WITH AWWA STANDARD C651 AND THE STATE HEALTH DEPARTMENT.
 - D. TEST NEWLY INSTALLED WATER PIPING PRIOR TO PROJECT CLOSEOUT IN ACCORDANCE WITH THE FOLLOWING SCHEDULE:
 - WATER 100 P.S.I. W/WATER 24 HOURS
 - WASTE AND VENT 10' HIGH WATER COLUMN.

PLUMBING FIXTURE SCHEDULE

SYMBOL	FIXTURE TYPE	MANUF/MODEL (OR EQUAL)	FIXTURE MOUNTING HEIGHT	CONNECTIONS				COMMENTS
				CW	HW	WASTE	VENT	
P-1	WATER CLOSET (ADA)	AMERICAN STANDARD NO. XXXXXX "CADET RT-HT"	17" TOP OF RIM	1/2"	---	3"	2"	FLUSH TANK, FLOOR MOUNTED, ELONGATED BOWL, SIPHON JET ACTION, 1.28 GPF, WHITE FINISH. FURNISH WITH OLSONITE NO. 95 OPEN FRONT SEAT. FLUSH LVER TO BE MOUNTED ON WIDE SIDE OF STALL OR ROOM. WASTE FLOOR FLANGE, WAX RING, AND BOLT COVERS.
P-2	LAVATORY (ADA)	AMERICAN STANDARD NO. C321 075 "DECLYN"	34" TOP OF RIM	1/2"	1/2"	2"	1-1/2"	VITREOUS CHINA, 20" X 18", CONCEALED ARM, WHITE FINISH. AS MODEL 6114. 118 FAUCET WITH SINGLE HANDLE, 0.50 GPM VANDAL-RESISTANT AERATOR. PROVIDE WITH LOOSE KEY WALL STOPS AND SUPPLIES. P-TRAP, GRID STRAINER, WATTS LEMAY THERMOSTATIC MIXING VALVE PER ASSE 1070 (AT 110°F) AND TRUEBRO #102 HAND LAV-GUARD KIT, ZURN LAV CARRIER.
P-3	SHOWER (ADA)	COMFORT DESIGN MODEL XST-3938 BF .625	STANDARD	1/2"	1/2"	2"	1-1/2"	TRANSFER SHOWER, POLYESTER GELCOATED SURFACE WITH CENTER DRAIN. ADA. GRAB BARS, L-SHAPED FOLD-UP SEAT. PROVIDE WITH AMERICAN STANDARD NO. 1662.211 PB VALVE W/ STOPS, VALVE TRIM W/ LEVER HANDLE, 1.5 GPM HANDHELD SHOWERHEAD WITH FLEXIBLE 60" METAL HOSE, WALL CONNECTION WITH FLANGE, VACUUM BREAKER, 36" SLIDE BAR-POLISHED CHROME FINISH CURTAIN ROD AND CURTAIN WITH HOOKS BY OTHERS. PROVIDE WITH ZURN Z-415 DRAIN WITH ROUND STRAINER.
P-4	SINGLE SINK (ADA)	ELKAY MODEL LRAD2522	COUNTERTOP SEE ARCH. FOR HEIGHT	1/2"	1/2"	2"	1-1/2"	25"x22"x6" DEEP, SINGLE BOWL, 18 GAUGE TYPE 304 STAINLESS STEEL, 4 HOLES, LKSS DRAIN. FURNISH WITH MOEN MODEL NO. 8792 HIGH ARC FAUCET WITH SIDE SPRAY AND 1.0 GPM AERATOR. PROVIDE WITH IN-SINK-ERATOR BADGER I 1/3 HP MOTOR, 4.0 AMPS, 120V-1 PH-60 HZ DISPOSAL. PROVIDE WITH LOOSE KEY STOPS & SUPPLIES. P-TRAP, AND TRUEBRO #102 HAND LAV-GUARD KIT (IF REQUIRED), PROVIDE WITH 1/2" VALVED HW HOSE AND AIR GAP DRAIN WITH DRAIN HOSE FOR FUTURE DISHWASHER.
P-5	MOP BASIN	FIAT MODEL MSB2424	FLOOR MOUNTED	1/2"	1/2"	3"	2"	WITH 1453-BB STRAINER, NO. 832-AA HOSE AND HOSE BRACKET, STAINLESS STEEL CAPS, NO. 889-CC MOP HANGER, MODEL 830-AA FAUCET WITH VACUUM BREAKER AND STOPS, AND SEALED AROUND WITH NO. 833-AA SILICONE SEAL.

MISCELLANEOUS PLUMBING FIXTURE SCHEDULE

SYMBOL	FIXTURE TYPE	MANUF/MODEL (OR EQUAL)	CONNECTIONS				COMMENTS
			CW	HW	WASTE	VENT	
FCO	FLOOR CLEANOUT (INSIDE BUILDING, SEE ARCH. FOR FINISH)	ZURN NO. ZN-1400 NH	---	---	SEE DWG	---	ZURN NO. ZN-1400-X NH, RECESSED FOR TILE. ZURN NO. ZN-1400-CF NH FOR CARPET, WITH MARKER
CO	CLEANOUT (OUTSIDE OR AT UNFINISHED AREA)	ZURN NO. Z-1400-HD NH CAST IRON TAP	---	---	SEE DWG	---	P.B. TOP IN OUTSIDE AREAS, CAST IRON TOP, VANDAL-PROOF SCREWS, GALVANIZED.
WCO	WALL CLEANOUT	ZURN NO. Z-1468 ZS	---	---	SEE DWG	---	INSTALL WHERE C.O. BELOW FIXTURE CONNECTION IS REQUIRED BY CODE AND WHERE SHOWN ON PLANS. BRONZE PLUG WITH STAINLESS STEEL FACE WALL PLATE, WITH VANDAL-PROOF SCREWS.
FD-1	FLOOR DRAIN	ZURN ZN-415 W/TYPE B	---	---	2"	2"	ADJUSTABLE DRAIN WITH ANCHOR FLANGE (CLAMP COLLAR WITH SEEPAGE HOLES) WITH 6" MEDIUM DUTY VANDAL PROOF SECURED GRATE. PROVIDE WITH PROSET TRAP GUARD.
WHA-1	WATER HAMMER ARRESTOR	ZURN SHOKTROL	SEE DWG	---	---	---	SIZED PER FIXTURE UNIT LOAD, PROVIDE AT EACH TOILET GROUP.
AP	ACCESS PANEL	ELMDOR SLK 9"X8"	---	---	---	---	DRY WALL INSTALLATION, 14 GA MILD STEEL WITH PRIME COAT FINISH. PROVIDE AUTOMATIC SPRING BOLT TYPE LOCK AND KEY. INSTALL DOOR DIRECTLY IN FRONT OF WATER HAMMER ARRESTOR IN WALL.
HB-1	HOSE BIB FREEZE RESISTANT	WOODFORD MODEL B75	3/4"	---	---	---	NON-FREEZE, ANTI-SIPHON, AND AUTOMATIC DRAINING, WITH P.B. BOX, AND LOOSE KEY. SEE ARCH. PLAN FOR WALL THICKNESS, 18" MOUNTING HEIGHT.

ELECTRIC WATER HEATER

SYMBOL	MANUFACTURER	MODEL	TANK CAPACITY GALLONS	FIRST HOUR RATING	KW INPUT	ELEMENTS	FLA	VOLTAGE	COMMENTS
EW-1	AO SMITH	DSE-50-9	50	56 GALLONS	9 KW	1	25.0 43.3	208V-3PH 208V-1PH	COMMERCIAL 99% ELECTRIC ENERGY SAVER, COMPLETE WITH IMMERSION TYPE THERMOSTAT, COMPLETELY PRE-WIRED, SCREW-IN TYPE ELEMENTS AND T&P RELIEF VALVE. ROUTE T&P DRAIN FULL SIZE TO FLOOR SINK. PROVIDE WITH AMTROL S1-S EXPANSION TANK, SUPPORT STAND, DRAIN PAN, HEAT TRAPS, & SEISMIC RESTRAINTS.



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11/01/2018

CONSULTANT

PROJECT TITLE

SANTA FE COUNTY MADRID FIRE STATION

MADRID NEW MEXICO

REVISIONS:

MK DATE DESCRIPTION

DRAWN BY: JJS CHECKED BY: PS

PROJECT NUMBER: A18.04

DATE: 11/01/2018

SHEET TITLE: PLUMBING SCHEDULES

SHEET NO: P-002



95% CONSTRUCTION DOCUMENTS - NOT FOR CONSTRUCTION

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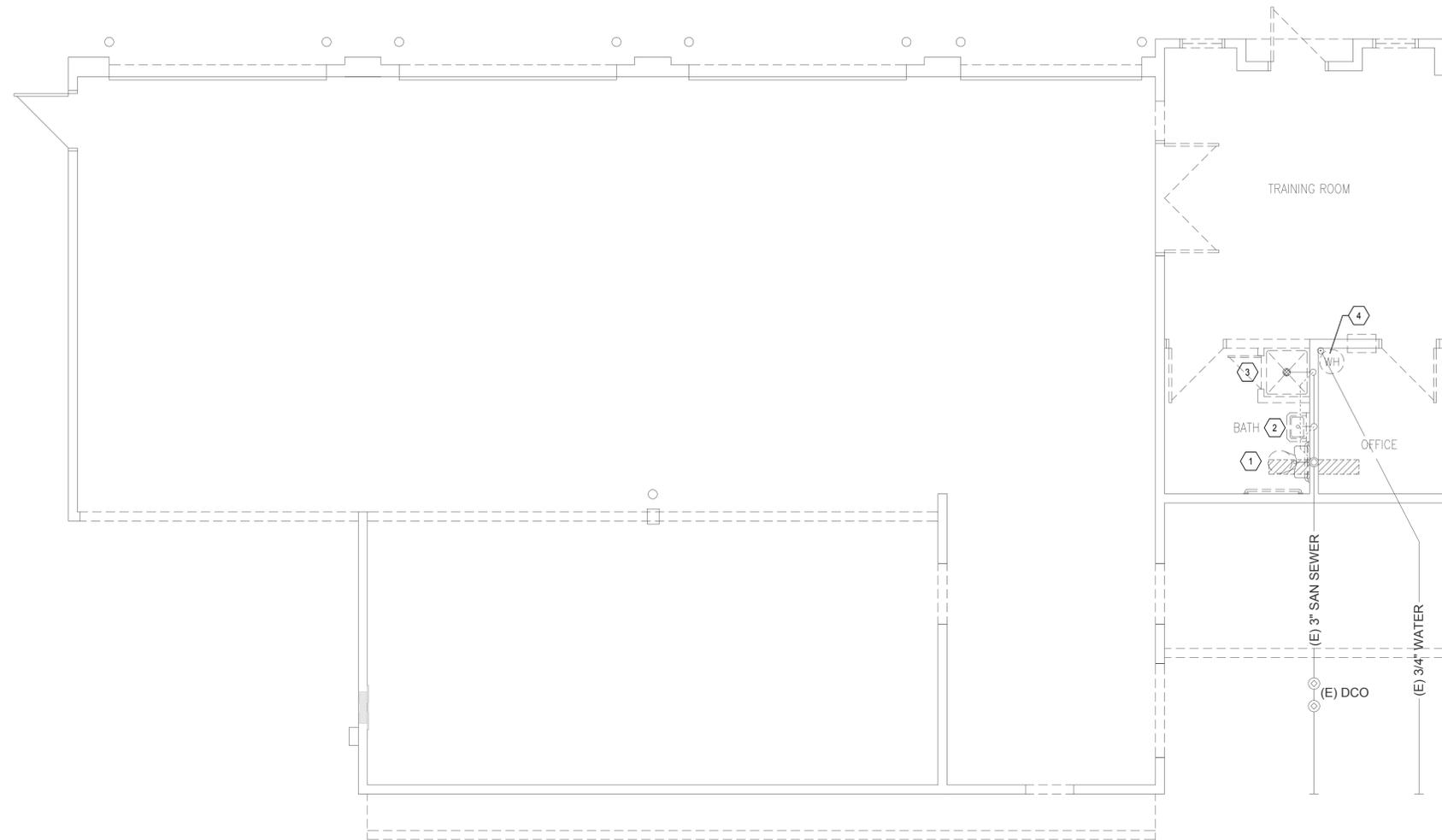
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GENERAL DEMOLITION NOTES

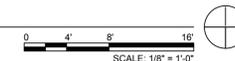
- A DEMOLITION WORK IS GENERALIZED AS TO THE OVERALL INTENT OF THE DEMOLITION PHASE OF WORK IN PREPARING FOR NEW CONSTRUCTION. GENERAL CONTRACTOR AND PLUMBING CONTRACTOR ARE RESPONSIBLE FOR DETERMINING THE TOTAL EXTENT OF THE DEMOLITION OF PLUMBING FIXTURES, TRIM, SUPPORT DEVICES, PIPING, ETC.
- B DEMOLISHED MATERIALS, REFUSE, ETC. SHALL BE DISPOSED PER LOCAL AND STATE REGULATIONS.
- C OWNER HAS THE FIRST RIGHT OF REFUSAL AND MAY CHOOSE TO SALVAGE CERTAIN ITEMS INTACT DURING DEMOLITION. CONTRACTOR SHALL COORDINATE THRU GENERAL CONTRACTOR AND OWNERS REPRESENTATIVE.
- D CONTRACTOR SHALL COORDINATE WITH GENERAL FOR ALL CUTTING, REMOVAL, REPLACEMENT AND PATCHING OF ALL CONCRETE SLAB, FLOORS, CEILING, AND WALL WORK REQUIRED FOR PLUMBING WORK LOCATED IN AREAS FOR REFURBISHMENT DURING DEMOLITION AND NEW CONSTRUCTION TO SUPPORT THE PLUMBING WORK. REPLACEMENT AND PATCHING SHALL MATCH EXISTING CONSTRUCTION FINISH.

KEYED NOTES

- 1 EXISTING WATER CLOSET TO BE DISCONNECTED AND REMOVED ENTIRELY. EXISTING WASTE AND VENT PIPING TO BE MODIFIED TO ACCOMMODATE NEW WC FIXTURES. EXISTING 2" VTR TO REMAIN FOR NEW VENT CONNECTION. EXISTING CW BE REMOVED ENTIRELY. FIELD VERIFY SIZES AND LOCATIONS.
- 2 EXISTING LAVATORY AND TRIM TO BE DISCONNECTED AND REMOVED ENTIRELY. EXISTING WASTE, VENT, CW, AND HW PIPING IN WALL TO BE REMOVED ENTIRELY. FIELD VERIFY SIZES AND LOCATIONS.
- 3 EXISTING SHOWER AND TRIM TO BE DISCONNECTED AND REMOVED ENTIRELY. EXISTING WASTE AND VENT PIPING IN WALL TO BE MODIFIED TO ACCOMMODATE ACCOMMODATE NEW LAVATORY FIXTURES. EXISTING CW AND HW PIPING TO BE REMOVED ENTIRELY. FIELD VERIFY SIZES AND LOCATIONS.
- 4 EXISTING WATER HEATER LOCATED ON MEZZANINE TO BE DISCONNECTED AND REMOVED ENTIRELY, INCLUDING ALL WATER PIPING, T&P RELIEF, DRAINS, ETC. FIELD VERIFY SIZES AND LOCATIONS.



A1 PLUMBING DEMOLITION PLAN



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**MADRID
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HRM PS

PROJECT NUMBER:

A18.04

DATE:

11/01/2018

SHEET TITLE:

**PLUMBING
DEMOLITION
PLAN**

SHEET NO.:

PD101

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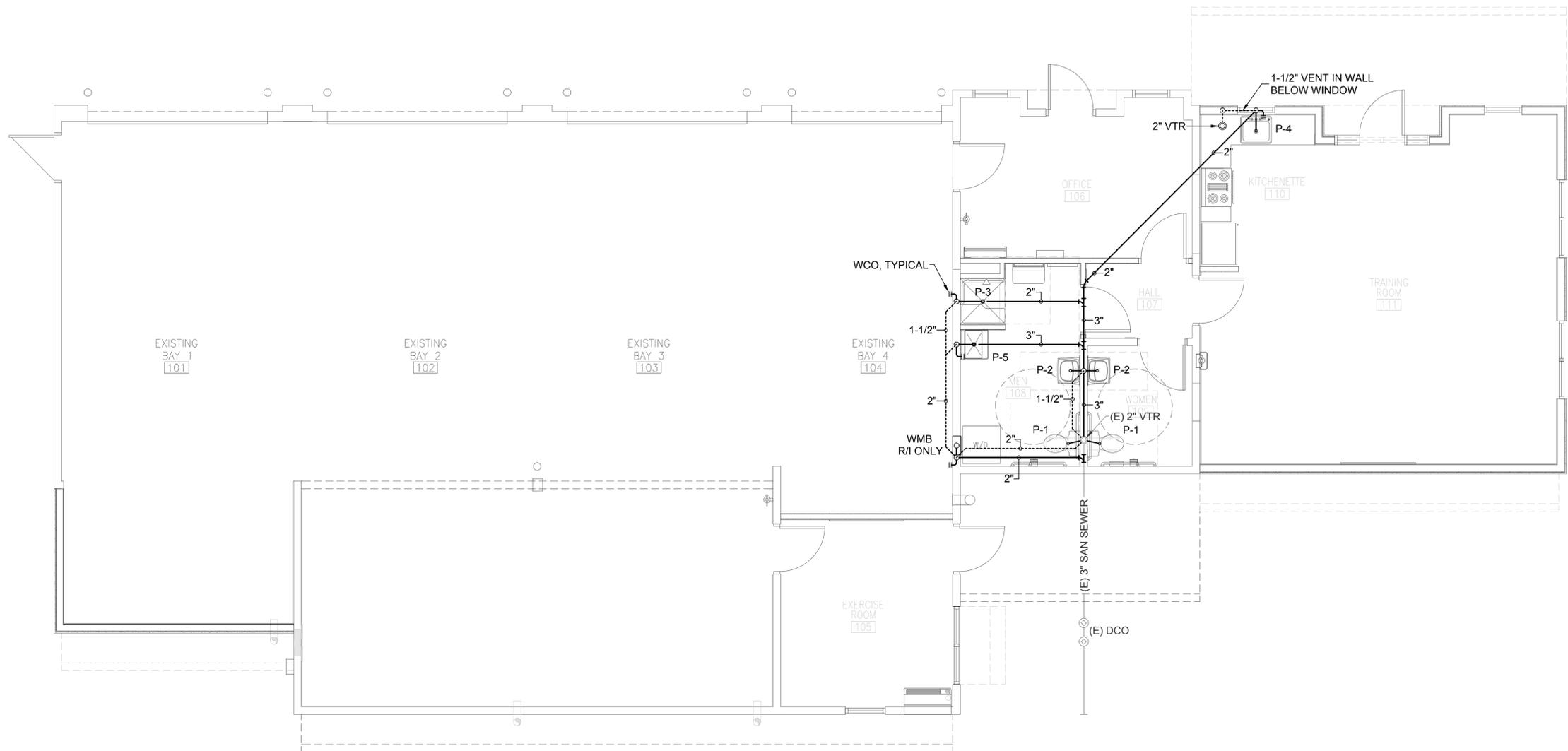
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A1 PLUMBING FLOOR PLAN - WASTE + VENT



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SHEET TITLE:

**PLUMBING
FLOOR PLAN
WASTE & VENT**

SHEET NO.:

P-101

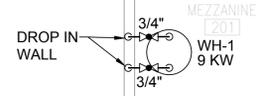
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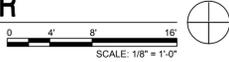
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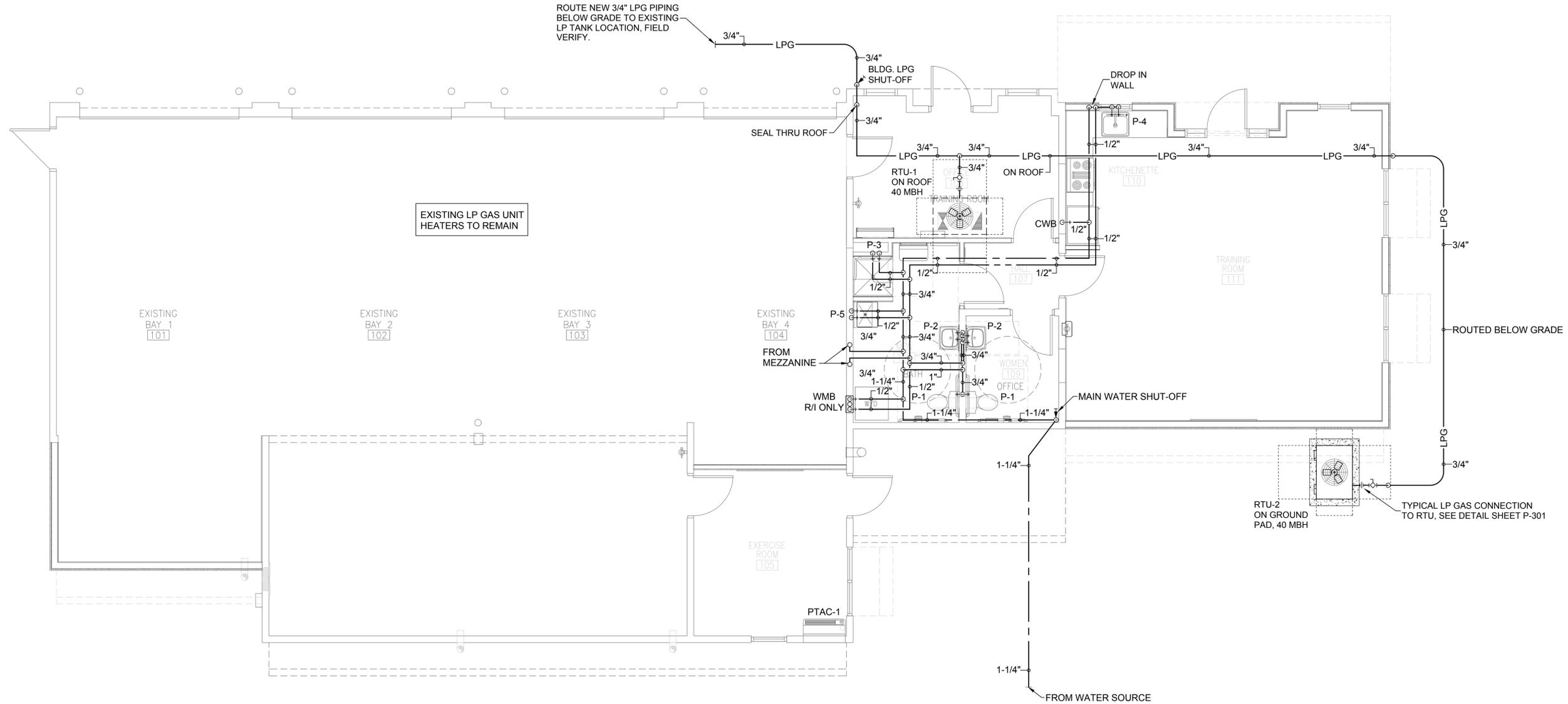
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C1 PLUMBING MEZZANINE FLOOR PLAN - WATER



ROUTE NEW 3/4" LPG PIPING BELOW GRADE TO EXISTING LP TANK LOCATION, FIELD VERIFY.



A1 PLUMBING FLOOR PLAN - WATER AND GAS



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A18.04

DATE:
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SHEET TITLE:

PLUMBING FLOOR PLAN WATER & GAS

SHEET NO.:

P-102

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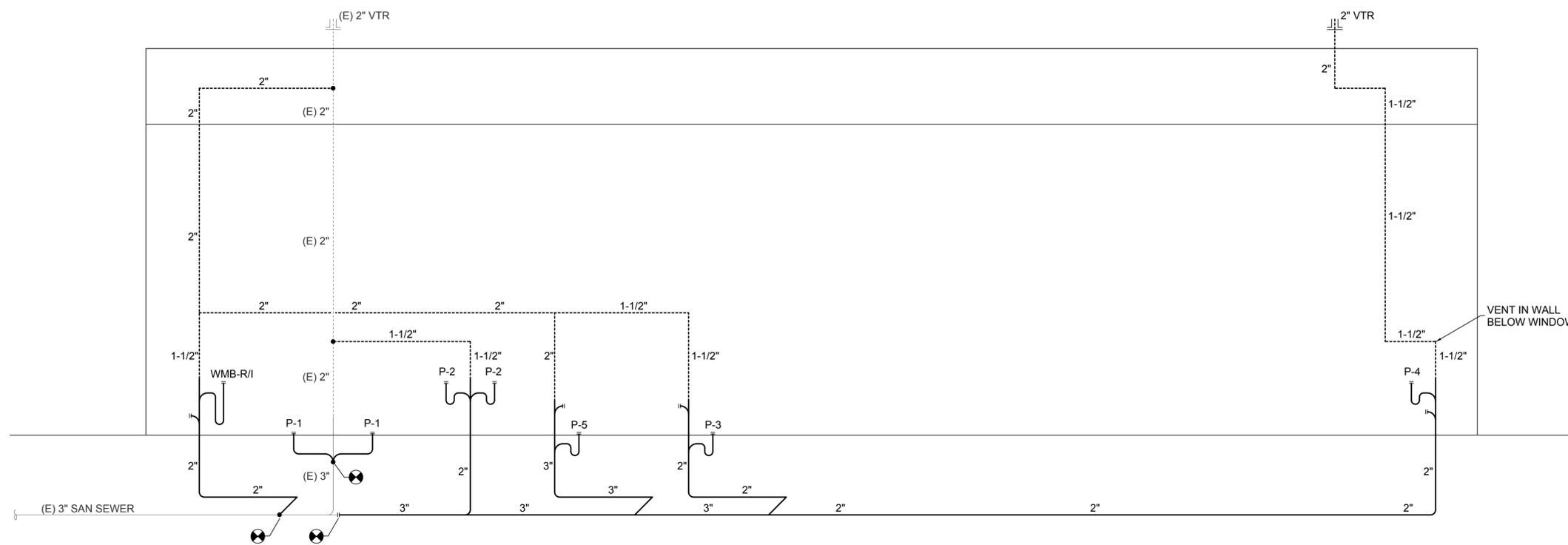
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A1 PLUMBING WASTE + VENT RISER DIAGRAM



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**PLUMBING
WASTE & VENT
RISER DIAGRAM**

SHEET NO:

P-201



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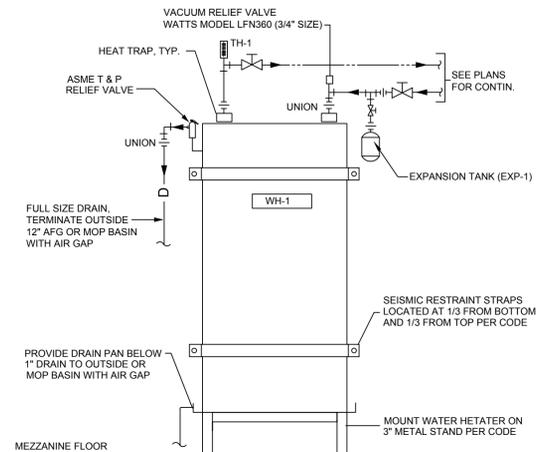
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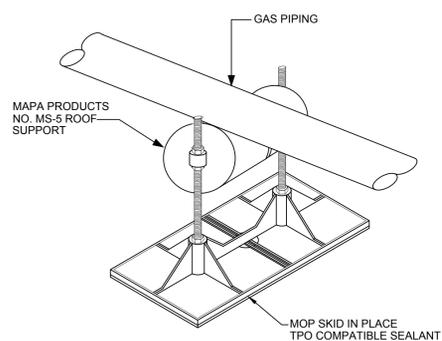
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SCHEDULE	
SYMBOL	DESCRIPTION
TH-1	THERMOMETER: WEISS "VARI-ANGLE", 9" CASE, 3-1/2" ELEMENT SEPARABLE SOCKET WITH IMMERSION WELL, 30°-300° F SCALE RANGE FOR HEATED WATER.

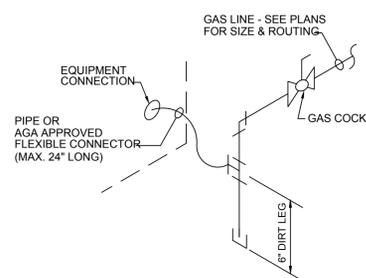
DOMESTIC WATER HEATER DETAIL

NOT TO SCALE (SEE PLANS FOR PIPE ROUTING & SIZES)



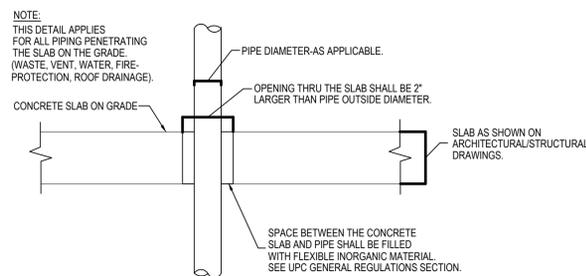
GAS PIPING ROOF SUPPORT

NOT TO SCALE



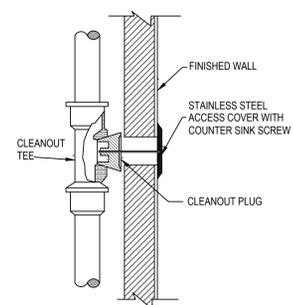
TYP. GAS CONNECTION

NOT TO SCALE



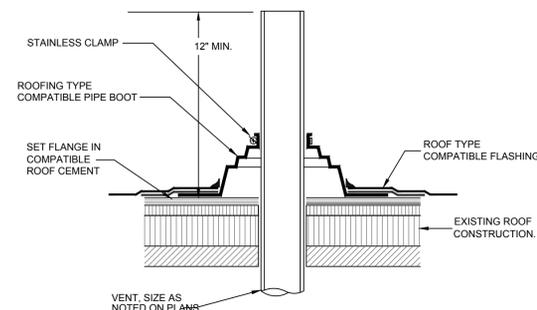
SLAB ON GRADE PENETRATION DETAIL

NOT TO SCALE



WALL CLEANOUT DETAIL

NOT TO SCALE



VENT THRU ROOF DETAIL

NOT TO SCALE



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**SANTA FE COUNTY
MADRID
FIRE STATION**

**MADRID
NEW MEXICO**

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PROJECT NUMBER:

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DATE:

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SHEET TITLE:

**PLUMBING
DETAILS**

SHEET NO.:

P-301



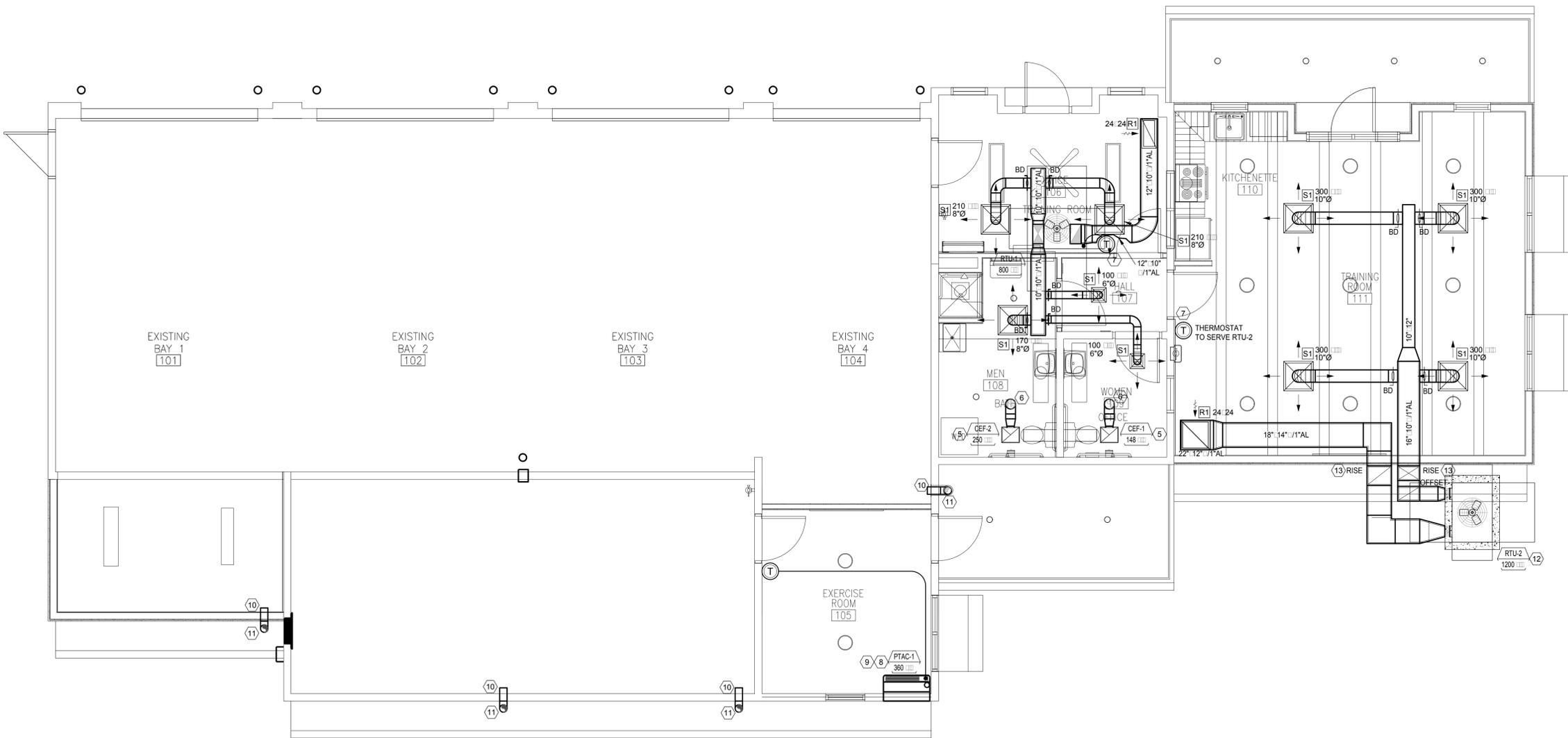
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NEW GENERAL NOTES:

- A. THESE DRAWINGS REFLECT INFORMATION GATHERED BY SITE INSPECTION AND PREVIOUS CONSTRUCTION DRAWINGS. IT IS POSSIBLE THAT THE EXACT LOCATION OF DUCTWORK AND EQUIPMENT MAY BE DIFFERENT FROM LOCATIONS SHOWN ON THE DRAWINGS. PRIOR TO BIDDING THE CONTRACTOR SHALL MAKE SITE VISIT TO REVIEW BUILDING CONDITIONS AND REQUIREMENTS.
- B. COORDINATE THE LOCATION OF ROOF PENETRATIONS WITH ROOF STRUCTURE.
- C. ALL ROOF PENETRATION SHALL BE FLASHED AND COUNTER FLASHED AS REQUIRED TO BE WATER TIGHT.
- D. FRAME EACH ROOF OPENING WITH WELDED ANGLE IRON FRAME.
- E. VERIFY EQUIPMENT CONFIGURATION REQUIREMENTS BEFORE INSTALLATION. DUCT CONNECTIONS SHALL BE MADE AS REQUIRED.
- F. GAUGE OF DUCT WORK SHALL BE PER SMACNA'S RECOMMENDATIONS.
- G. MOUNT TSTATS AT 4' ABOVE FINISH FLOOR LEVEL.
- H. WIRING OF SMOKE DETECTORS BY ELECTRICAL CONTRACTOR.
- I. ALL EQUIPMENT SHALL BE INSTALLED IN ACCORDANCE WITH MANUFACTURER'S RECOMMENDATIONS.
- J. ALL EXPOSED DUCTWORK TO BE PAINT GRIP STEEL. COLOR TO BE SPECIFIED BY ARCHITECT.
- K. ALL MATERIALS IN PLENUM SHALL HAVE A FLAME-SPREAD INDEX OF LESS THAN 25 AND SMOKE-DEVELOPED RATING INDEX LESS THAN 50. THEREFOR, PLENUM IS RATED TO ALLOW FOR PLENUM RETURN AIR FLOW IN COMPLIANCE WITH 602.2.

NEW KEYED NOTES:

- 1. APPROXIMATE LOCATION OF NEW ROOF TOP UNIT LOCATED ON ROOF. UNIT TO BE SET LEVEL AND INSTALLED PER MANUFACTURER'S RECOMMENDATIONS. PROVIDE FACTORY FURNISHED ROOF CURB.
- 2. FULL SIZE SUPPLY DUCT ROUTED FROM ROOF TOP UNIT TO CEILING SPACE BELOW. SIZE AND ROUTE AS INDICATED ON DRAWING. PENETRATION THROUGH ROOF TO BE SEALED WATER TIGHT, FLASH AND COUNTER FLASH.
- 3. FULL SIZE RETURN AIR DUCT ROUTED FROM ROOF TOP UNIT TO CEILING SPACE BELOW. SIZE AND ROUTE AS INDICATED ON DRAWING. PENETRATION THROUGH ROOF TO BE SEALED WATER TIGHT, FLASH AND COUNTER FLASH.
- 4. PROVIDE FULL SIZE P-TRAP ON CONDENSATE DRAIN CONNECTION OF ROOF TOP UNIT. DRAIN TO BE ROUTED TO AND DISCHARGED INTO ROOF DRAINS OR ROOF SCUPPERS. PROVIDE MICRO BLOCK SUPPORT SYSTEM FOR CONDENSATE DRAIN LINE. PLACED AT 5'-0" ON CENTER.
- 5. APPROXIMATE LOCATION OF NEW CEILING EXHAUST FAN LOCATED ON CEILING. UNIT TO BE SET LEVEL AND INSTALLED PER MANUFACTURER'S RECOMMENDATIONS.
- 6. ROUTE NEW 8"Ø EXHAUST DUCT UP THROUGH ROOF TO FACTORY FURNISHED ROOF JACK. PENETRATION THROUGH ROOF TO BE SEALED WATER TIGHT, FLASH AND COUNTER FLASH.
- 7. PROVIDE NEW THERMOSTAT LOCATED AT 48" ABOVE FINISH FLOOR. PROVIDE CLEAR PLASTIC LOCKING COVER.
- 8. APPROXIMATE LOCATION OF NEW PTAC. UNIT TO BE SET LEVEL AND INSTALLED IN ACCORDANCE TO MANUFACTURER'S RECOMMENDATIONS. PENETRATION THROUGH WALL TO BE SEALED WATER TIGHT.
- 9. 3/4" CONDENSATE DRAIN TO BE ROUTED TO SPLASH BLOCK OUTSIDE.
- 10. PROVIDE NEOPRENE QUICK DISCONNECT TO TRUCK MUFFLER. SIZE TO BE CONFIRMED.
- 11. 4" EXPOSED EXHAUST DUCT TO EXTEND THROUGH BUILDING WALL TO EXHAUST AT EXTERIOR LOCATION. PROVIDE BIRDSCREEN.
- 12. APPROXIMATE LOCATION OF NEW ROOF TOP UNIT LOCATED ON GRADE. UNIT TO BE SET LEVEL AND INSTALLED IN ACCORDANCE TO MANUFACTURER'S RECOMMENDATIONS PROVIDE 6" THICK HOUSEKEEPING PAD WITH FOOT PRINT 6" GREATER THAN EQUIPMENT.
- 13. 14" 10" /11" AL SUPPLY DUCT TO RISE UP EXPOSED ON SIDE OF BUILDING TO CEILING SPACE. PENETRATION INTO BUILDING TO BE SEALED WATER TIGHT.
- 14. 12" 12" /11" AL RETURN AIR DUCT TO RISE UP EXPOSED ON SIDE OF BUILDING TO CEILING SPACE. PENETRATION INTO BUILDING TO BE SEALED WATER TIGHT.



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SANTA FE COUNTY MADRID FIRE STATION

MADRID NEW MEXICO

REVISIONS:

MK	DATE	DESCRIPTION

DRAWN BY: JJS CHECKED BY: PS

PROJECT NUMBER:
A18.04

DATE:
11/01/2018

SHEET TITLE:

MECHANICAL HVAC FLOOR PLAN

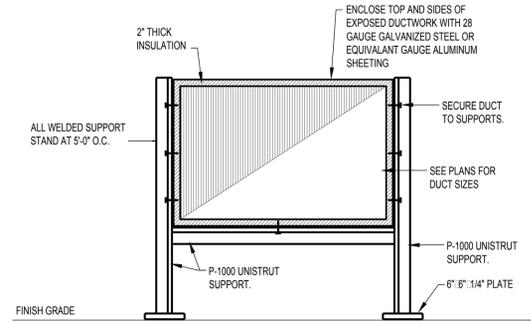
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M-101

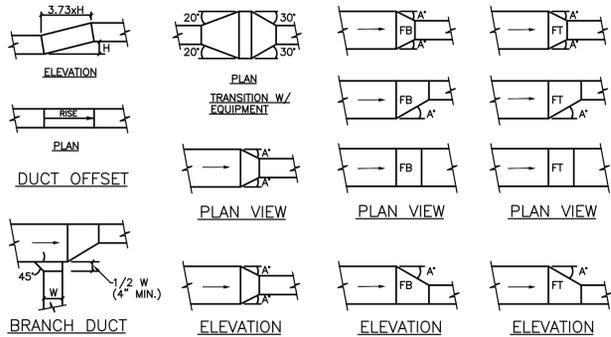
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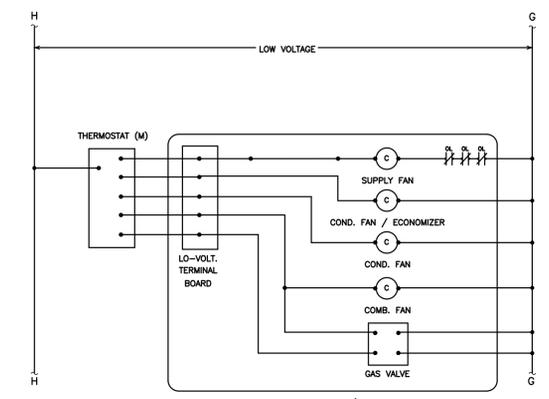
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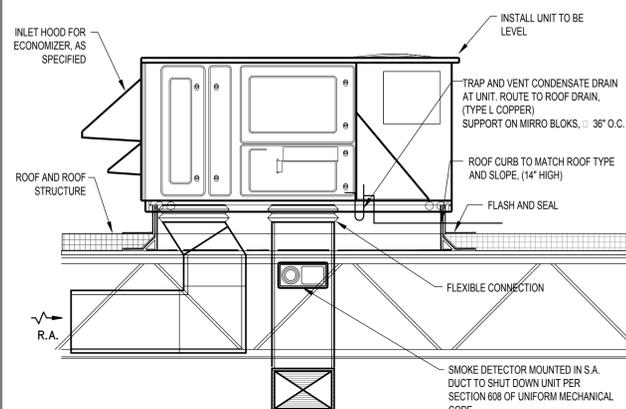
DUCT SUPPORT DETAIL



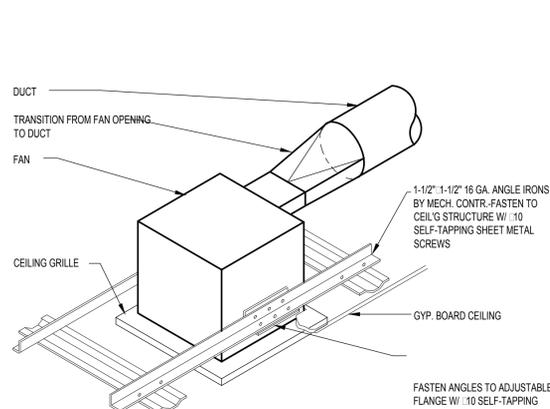
LOW VELOCITY DUCT FITTINGS DETAIL



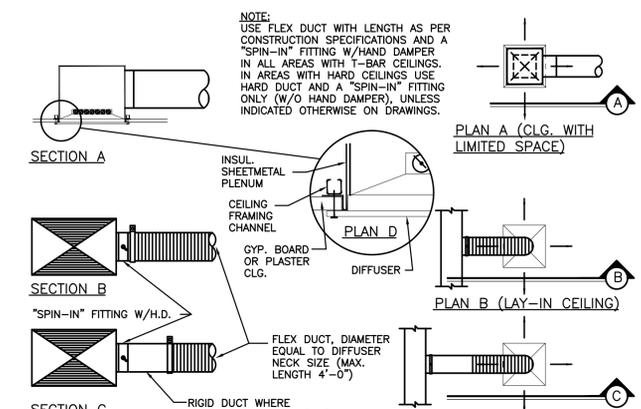
RTU LADDER DIAGRAM 2,000 CFM



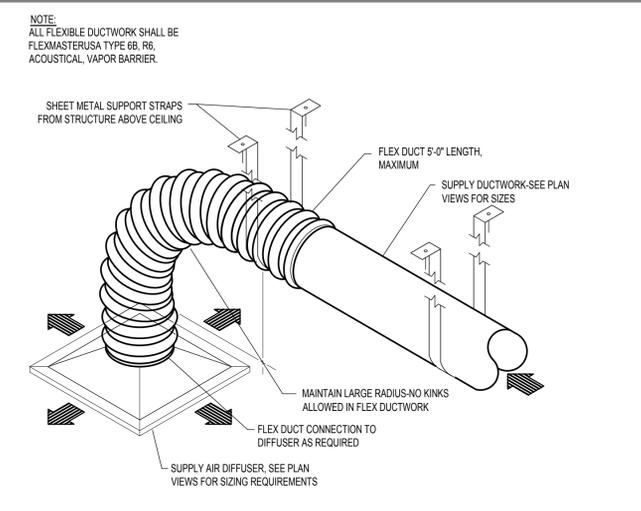
ROOFTOP UNIT DETAIL



CEILING EXHAUST FAN DETAIL



DIFFUSER CONNECTION DETAIL



SUPPLY AIR DIFFUSER CONNECTION DETAIL



Section 1: Project Information

Energy Code: 2009 IECC
 Project Title: Madrid Fire Station
 Project Type: Addition
 Construction Site: Santa Fe, New Mexico
 Owner/Agent: Arsed Engineering Group LLC
 Designer/Contractor: Patrick Sedillo, P.E.

Section 2: General Information

Building Location (for weather data): Santa Fe, New Mexico
 Climate Zone: 5b

Section 3: Mechanical Systems List

- 1. HVAC System RTU-1 (Single Zone): Heating: 1 each - Duct Furnace, Propane, Capacity = 40 kBtu/h; Proposed Efficiency = 80.00% EER, Required Efficiency = 80.00% EER; Cooling: 1 each - Single Package DX Unit, Capacity = 24 kBtu/h, Air-Cooled Condenser, Air Economizer; Proposed Efficiency = 13.00 SEER, Required Efficiency: 13.00 SEER; Fan System: None
- 1. HVAC System RTU-2 (Single Zone): Heating: 1 each - Duct Furnace, Propane, Capacity = 40 kBtu/h; Proposed Efficiency = 80.00% EER, Required Efficiency = 80.00% EER; Cooling: 1 each - Single Package DX Unit, Capacity = 36 kBtu/h, Air-Cooled Condenser, Air Economizer; Proposed Efficiency = 13.00 SEER, Required Efficiency: 13.00 SEER; Fan System: None
- 1. HVAC System 3 (Single Zone) - Packaged Terminal Heat Pump Heating Mode: Capacity = 12 kBtu/h; Proposed Efficiency = 2.89 COP, Required Efficiency = 2.89 COP; Cooling Mode: Capacity = 12 kBtu/h; Proposed Efficiency = 10.81 EER, Required Efficiency: 9.14 EER; Fan System: None
- 1. Water Heater 1: Electric Storage Water Heater, Capacity: 0 gallons w/ Circulation Pump; No minimum efficiency requirement applies

Section 4: Requirements Checklist

- Requirements Specific To: HVAC System RTU-1:**
- 1. Equipment minimum efficiency: Duct Furnace (Propane): 80.00 % EER
 - 2. Equipment minimum efficiency: Single Package Unit: 13.00 SEER
- Requirements Specific To: HVAC System RTU-2:**
- 1. Equipment minimum efficiency: Duct Furnace (Propane): 80.00 % EER
 - 2. Equipment minimum efficiency: Single Package Unit: 13.00 SEER
- Requirements Specific To: HVAC System 3:**

- 1. Equipment minimum efficiency: Heat Pump: 2.89 COP 9.74 EER

Requirements Specific To: Water Heater 1:

- 1. Water heating equipment meets minimum efficiency requirements. No efficiency requirements for water heater with storage capacity less than 20 gallons.
- 2. All piping in circulating system insulated.
- 3. Hot water storage temperature controls that allow setpoint of 90°F for non-dwelling units and 110°F for dwelling units.
- 4. Automatic time control of heat tapes and recirculating systems present.
- 5. Controls will shut off operation of circulating pump between water heater/buffer and storage tanks within 5 minutes after end of heating cycle.

Generic Requirements: Must be met by all systems to which the requirement is applicable:

- 1. Plant equipment and system capacity no greater than needed to meet the requirement is applicable:
 - Standby equipment automatically off when primary system is operating
 - Multiple units controlled to sequence operation as a function of load
- 2. Minimum one temperature control device per system
- 3. Minimum one humidity control device per installed humidification/dehumidification system
- 4. Load calculations per ASHRAE/ACCA Standard 183.
- 5. Automatic Controls: Setback to 55°F (heat) and 65°F (cool); 7-day clock, 2-hour occupant override, 10-hour backup
- 6. Continuously operating zones
- 7. Outside-air source for ventilation system capable of reducing OSA to required minimum
- 8. R-6 supply and return air duct insulation in unconditioned spaces
- 9. R-8 insulation between ducts and the building exterior when ducts are part of a building assembly
- 10. Ducts located within equipment
 - Ducts with interior and exterior temperature difference not exceeding 15°F
- 11. Mechanical fasteners and sealants used to connect ducts and air distribution equipment
- 12. Ducts sealed - longitudinal seams on rigid ducts; transverse seams on all ducts: UL 181A or 181B tapes and mastics
- 13. Hot water pipe insulation: 1.5 in. for pipes <= 1.5 in. and 2 in. for pipes > 1.5 in.
- 14. Chilled water/cooling water pipe insulation: 1.5 in. for pipes <= 1.5 in. and 1.5 in. for pipes > 1.5 in.
- 15. Steam pipe insulation: 1.5 in. for pipes <= 1.5 in. and 3 in. for pipes > 1.5 in.
- 16. Piping within HVAC equipment
 - Fluid temperatures between 55 and 105°F
 - Fluid not heated or cooled with renewable energy
 - Piping within room fan-coil (with AHR440 rating) and unit ventilators (with AHR840 rating)
 - Ranouts <= 4 ft in length
- 17. Operation and maintenance manual provided to building owner
- 18. Thermostats controls have 5°F deadband
- 19. Thermostats requiring manual changeover between heating and cooling
- 20. Special occupancy or special applications where wide temperature ranges are not acceptable and are approved by the authority having jurisdiction
- 21. Balancing devices provided in accordance with IMC 603.17
- 22. Demand control ventilation (DCV) present for high design occupancy areas (>40 persons/1000 ft2 in spaces >500 ft2) and served by systems with any one of 1) an air-side economizer; 2) automatic modulating control of the outdoor air damper; or 3) a design outdoor airflow greater than 3000 cfm.
 - Systems with heat recovery
 - Multiple-zone systems without DDC of individual zones communicating with a central control panel.
 - Systems with a design outdoor airflow less than 1200 cfm.
 - Spaces where the supply airflow rate minus any makeup or outgoing transfer air requirement is less than 1200 cfm.
- 23. Motorized, automatic shutoff dampers required on exhaust and outdoor air supply openings
- 24. Gravity dampers acceptable in buildings <= 3 stories
- 25. Automatic controls for freeze protection systems present

- 17. Exhaust air heat recovery included for systems 5,000 cfm or greater with more than 70% outside air fraction or specifically exempted

Section 5: Compliance Statement

Compliance Statement: The proposed mechanical design represented in this document is consistent with the building plans, specifications and other calculations submitted with this permit application. The proposed mechanical systems have been designed to meet the 2009 IECC requirements in COMcheck Version 4.0.8.1 and to comply with the mandatory requirements in the Requirements Checklist.

Section 6: Post Construction Compliance Statement

Principal Mechanical Designer Name: Patrick Sedillo, P.E.
 Signature: _____ Date: _____

The above post construction requirements have been completed.

Principal Mechanical Designer Name: _____ Signature: _____ Date: _____

Project Title: Madrid Fire Station
 Data Filename: T:\Mechanical\18054 Madrid Fire Station\5 Mechanical Calculations\Mechanical\Madrid.cck
 Report date: 10/31/18
 Page 3 of 3



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ARCHITECT



CONSULTANT

PROJECT TITLE

SANTA FE COUNTY MADRID FIRE STATION

MADRID NEW MEXICO

REVISIONS:

NO.	DATE	DESCRIPTION

DRAWN BY: JJS CHECKED BY: PS

PROJECT NUMBER: A18.04

DATE: 11/01/2018

SHEET TITLE: MECHANICAL DETAILS

SHEET NO. M-01



4700 Lincoln Road, NE # Suite 101 | Albuquerque, NM 87109 | 505.761.3100

95 - CONSTRUCTION DOCUMENTS - NOT FOR CONSTRUCTION

LIGHTING FIXTURE SCHEDULE						
LIGHTING FIXTURE CATALOG NUMBERS ARE SERIES TYPE ONLY. PROVIDE TRIM, BALLASTS, MOUNTING EQUIPMENT, FITTINGS AND LAMPS AS REQUIRED BY THE SPECIFICATIONS AND PROJECT CONDITIONS FOR A COMPLETE INSTALLATION.						
TYPE:	DESCRIPTION:	MANUFACTURER AND CATALOG NO.:	VOLTAGE:	LAMP:	WATTS PER LUMINAIRE:	REMARKS:
A	12" LED DECORATIVE PENDANT SILVER HOUSING/SILVER CORD OPTION BY OWNER/ARCH.	CONTECH LIGHTING MGL120030KMV2D2FC-S	120V	LED	60W	CEILING PENDANT/CABLE
A1	12" LED PENDANT	UTON LIGHTING RLCMPD12RP-FBA-LU10-T40	120V	LED	22W	CEILING PENDANT
B	7" ROUND SURFACE MOUNT LED DOWNLIGHT	FBA-FINISH BY ARCHITECT LIGHTOLIER RS7R-8-40K-10	120V	LED	16W	SURFACE CEILING
C	9" ROUND SURFACE MOUNT LED SHOWER DOWNLIGHT	COLOR BY ARCHITECT. LIGHTOLIER RS9R-8-40K-7	120V	LED	16W	SURFACE CEILING
D	LED VANITY LIGHT	COLOR BY ARCHITECT. DAYBRITE F5SWEZ4-40L-840	120V	LED	32W	SURFACE WALL
G	10" ROUND SURFACE MOUNT LED DOWNLIGHT	COLOR BY ARCHITECT. LIGHTOLIER RS10R-8-40K-22	120V	LED	24W	SURFACE WALL
H	EXTERIOR WALL MOUNT WITH EMERGENCY BACKUP CAPABILITY (BASE BID)	FBA-FINISH BY ARCHITECT MULE #MERU-LED-AC/ACEM-FBA	120V	LED	17W	SURFACE WALL
X	EXIT LIGHT WITH BATTERY BACK-UP	FBA-FINISH BY ARCH. MULE #MVB-R-U	120V	LED	-	UNIVERSAL WALL/CEILING
EX	EXIT LIGHT AND FROG EYES WITH BATTERY BACK-UP	MULE #SQRXU-SD	120V	LED	-	UNIVERSAL WALL/CEILING
EM	EMERGENCY FIXTURE WITH EMERGENCY BACK-UP	MULE #SLELED-W-SD	120V	LED	-	SURFACE WALL

- NOTES:
- DUAL-LEVEL SWITCHED FIXTURES SHALL BE PROVIDED WITH 2-DRIVERS. COORDINATE EXACT QUANTITIES WITH LIGHTING PLANS.
 - ALL RECESSED FIXTURES MOUNTED IN T-BAR CEILING TO BE PROVIDED WITH SAFETY EARTHQUAKE CLIPS.

ELECTRICAL GENERAL NOTES

- A. THE ELECTRICAL CONTRACTOR SHALL BE RESPONSIBLE FOR COORDINATING AND PROVIDING ALL WORK INDICATED BY THESE DRAWINGS, INCLUDING: FURNISHING ALL EQUIPMENT, SUPPLIES, MATERIALS AND LABOR, TO PROVIDE A COMPLETE ELECTRICAL SYSTEM AS SHOWN/INTENDED. THE CONTRACTOR SHALL PERFORM ALL OPERATIONS INCLUDING: CUTTING, PATCHING, CHANNELING, TRENCHING, COMPACTION AND BACKFILLING THAT ARE NECESSARY FOR THE INSTALLATION OF COMPLETE POWER, LIGHTING, OR OTHER ELECTRICAL SYSTEMS REPRESENTED IN THESE DRAWINGS.
- B. THE CONTRACTOR IS TO PERFORM ALL ELECTRICAL WORK IN NEAT WORKMANLIKE MANNER IN FULL COMPLIANCE WITH ALL APPLICABLE NATIONAL, STATE, LOCAL CODES; INCLUDING BUT NOT LIMITED TO: THE 2017 NATIONAL ELECTRICAL CODE (NEC), ANY APPLICABLE STATE ELECTRICAL CODES, NFPA, NFPA-70E, UBC AND ADA. FAILURE TO COMPLY WITH THESE CODES WILL BE REMEDIATED AT CONTRACTOR EXPENSE.
- C. SHOULD THE CONTRACTOR DETECT DISCREPANCIES BETWEEN CONTRACT DOCUMENTS AND ANY ASSOCIATED LEGAL OR SAFETY REQUIREMENTS, THE CONTRACTOR SHALL PROMPTLY NOTIFY THE ENGINEER IN WRITING. ONCE NOTIFIED THE ENGINEER SHALL MODIFY THE CONTRACT DOCUMENTS ACCORDINGLY. IF THE CONTRACTOR PROCEEDS WITH ANY WORK THAT IS IN VARIANCE OR CONFLICT OF KNOWN CODE, LEGAL OR SAFETY REQUIREMENTS, THE CONTRACTOR SHALL ASSUME FULL RESPONSIBILITY FOR THIS WORK. FURTHERMORE, UPON NOTIFICATION FROM THE ENGINEER, THE CONTRACTOR SHALL PROMPTLY CORRECT THE WORK. WITHOUT ADDITIONAL COST TO THE PROJECT. ANY IMPROPER WORK THAT CAUSES DAMAGE OR INJURY TO PERSONS OR PROPERTY, IS THE SOLE RESPONSIBILITY TO THE CONTRACTOR.
- D. FIELD VERIFY EXISTING CONDITIONS PRIOR TO COMMENCING WORK. NOTIFY THE ENGINEER OF ANY DISCREPANCIES BEFORE PROCEEDING/INSTALLING. NO CLAIM FOR ADDITIONAL MONIES/COST OR TIME EXTENSION WILL BE ALLOWED WITHOUT PROPER NOTICE AND PRIOR DETERMINATION OF TIME AND COST TO THE PROJECT.
- E. AFTER COMPLETION OF THE INSTALLATION, THE ENTIRE SYSTEM SHALL BE THOROUGHLY CLEANED, REMOVING ALL FOREIGN MATERIAL, PAINT, DIRT, GREASE AND UNNEEDED LABELS OR STICKERS FROM FIXTURES, DEVICES AND EQUIPMENT. REMOVE ALL RUBBISH AND DEBRIS THAT HAS ACCUMULATED DURING INSTALLATION ON THE PREMISES.
- F. ALL PHASES OF THE ELECTRICAL WORK SHALL BE COORDINATED WITH THE ARCHITECT, OWNER AND THE GENERAL CONTRACTOR. WORK SHALL BE PERFORMED TO CAUSE AS LITTLE INCONVENIENCE AS POSSIBLE TO THE OWNER.
- G. THE ELECTRICAL CONTRACTOR SHALL VERIFY ALL ELECTRICAL DEVICE LOCATIONS WITH ARCHITECTURAL CASE WORK DETAILS PRIOR TO ROUGH-IN. FURTHERMORE, THE CONTRACTOR SHALL OBTAIN FROM ALL SYSTEM SUPPLIERS, ALL APPLICABLE WIRING DIAGRAMS FOR ALL EQUIPMENT PRIOR TO ANY ROUGH-IN. ANY INCORRECT WIRING OR DEVICES INSTALLED BY ELECTRICAL CONTRACTOR WITHOUT APPROPRIATE WIRING DIAGRAM SHALL BE CORRECTED AT THE ELECTRICAL CONTRACTOR'S EXPENSE.
- H. THE ELECTRICAL CONTRACTOR SHALL VERIFY THE FINAL LOCATIONS OF ALL SINKS AND PLUMBING FIXTURES WITH THE PROJECT PLUMBING CONTRACTOR PRIOR TO ROUGH-IN. ANY ELECTRICAL DEVICES LOCATED BEHIND THE FINAL LOCATIONS OF COUNTERS, SINKS OR OTHER PLUMBING FIXTURES, SHALL BE SHIFTED A MINIMUM OF 8" (INCHES) TO EITHER SIDE OF THE SINK OR OBSTRUCTION. ANY ELECTRICAL DEVICES LEFT BEHIND A COUNTER, SINK OR OTHER PERMANENT PLUMBING FIXTURE AT THE TIME OF FINAL ELECTRICAL WORK-THRU, SHALL BE RELOCATED AT THE ELECTRICAL CONTRACTOR'S EXPENSE.
- I. PRIOR TO INSTALLATION, THE OWNER RESERVES THE RIGHT TO RELOCATE ANY ELECTRICAL DEVICE, UP TO A DISTANCE OF 12" (INCHES) WITHOUT ADDITIONAL CHARGE.
- J. THE EXACT LOCATION OF ALL SYSTEMS AND EQUIPMENT SHALL BE FIELD VERIFIED AND COORDINATED WITH OTHER TRADES PRIOR TO ANY INSTALLATION. WHERE EXACT LOCATIONS ARE NECESSARY, THEY ARE DIMENSIONED ON THE DRAWINGS. WHERE THERE IS A QUESTION OF ADEQUATE CLEARANCE OR COORDINATION BETWEEN TRADES, THE ELECTRICAL CONTRACTOR SHALL PREPARE "AS-BUILT" DRAWINGS APPLICABLE TO THE SITUATION FOR ENGINEERS REVIEW.
- K. SIZE ALL BOXES AND ENCLOSURES PER THE NATIONAL ELECTRICAL CODE. WORKING SPACE FOR AND AROUND ALL ELECTRICAL EQUIPMENT AND DEVICES SHALL BE DEFINED BY THE NATIONAL ELECTRICAL CODE.
- L. THE ELECTRICAL CONTRACTOR MUST COORDINATE WITH ALL OTHER TRADES TO INSURE THAT ALL REQUIRED COMPONENTS OF "CONTROL WORK" ARE INCLUDED AND FULLY UNDERSTOOD IN ORDER TO PROVIDE A COMPLETE AND OPERATING SYSTEM. NO ADDITIONAL COST SHALL BE ACCRUED BY THE OWNER AS A RESULT OF LACK OF SUCH COORDINATION.
- M. THE ELECTRICAL CONTRACTOR SHALL FAMILIARIZE HIMSELF WITH EXISTING CONDITIONS ON THE PROJECT PRIOR TO SUBMITTING A BID. IN ORDER TO ALLOW THE CONTRACTOR TO SUBMIT A COMPLETE BID WITHIN THE SCOPE OF THE PLANS AND SPECIFICATIONS, THE CONTRACTOR, BY SUBMITTING A BID, IMPLIES THAT HE HAS INVESTIGATED THE EXISTING PROJECT CONDITIONS TO HIS/HER SATISFACTION. ANY QUESTIONS ARISING DURING THE BID PERIOD WITH REGARDS TO THE CONTRACTOR'S FUNCTIONS, RESPONSIBILITIES, SCOPE OF WORK, OR ANY OTHER ISSUE RELATING TO THIS PROJECT SHALL BE BROUGHT PRIOR TO THE ACTUAL BID WITH THE ENGINEER FOR CLARIFICATION, NOT AFTER THE CONTRACT HAS BEEN AWARDED.
- N. ALL NEW MATERIAL INSTALLED ON THIS PROJECT IS TO BE "UL" LISTED, OR LISTED BY ANOTHER AGENCY THAT IS RECOGNIZED BY AUTHORITY HAVING JURISDICTION. SPECIAL OR CUSTOM BUILT DEVICES OR CONTROL PANELS ARE TO BE ASSEMBLED USING "LISTED" COMPONENTS, AND ARE REQUIRED TO BE RE-CERTIFIED TO PERFORM A CERTAIN TASK BY A "NATIONALLY RECOGNIZED TESTING LAB" (NRTL).
- O. ALL WIRING SHALL BE ROUTED IN CONDUIT AND SHALL BE CONCEALED IN WALLS AND ABOVE CEILINGS UNLESS OTHERWISE INDICATED. THE CONDUIT RUNS AS SHOWN ON THE PLANS ARE APPROXIMATE. EXACT LOCATIONS AND ROUTING SHALL BE PER EXISTING FIELD CONDITIONS. GENERALLY, CONDUIT SHALL BE "EMT", 1/2" MINIMUM UNLESS NOTED OTHERWISE. WHERE REQUIRED TO PROTECT FROM PHYSICAL DAMAGE, CONDUIT SHALL BE "GALVANIZED RIGID CONDUIT" (GRC) OR "GALVANIZED INTERMEDIATE CONDUIT" (IMC) TYPE. USE "FLEXIBLE METALLIC CONDUIT" ONLY WHERE INDICATED, OR IN FINAL CONNECTION POINT FOR MECHANICAL EQUIPMENT. ALL FINAL CONNECTION TO MECHANICAL EQUIPMENT SHALL BE MADE USING "LIQUID-TIGHT FLEXIBLE METALLIC CONDUIT" USING STRANDED WIRE, OF WHICH THE LENGTH IS TO BE FIVE FEET (5). SURFACE MOUNTED RACEWAY SHALL BE USED ONLY WHERE INDICATED ON DRAWINGS AND SHALL BE "WIREMOLD" TYPE OR EQUAL, OR AS SPECIFIED. SURFACE MOUNTED RACEWAYS SHOULD BE MOUNTED IN CORNER OF THE WALL OR CEILING, UNLESS OTHERWISE SHOWN. ALL EXPOSED RACEWAYS SHALL BE APPROVED BY THE ARCHITECT PRIOR TO ROUGH-IN.
- P. CONDUIT ROUGH-IN SHALL BE COORDINATED WITH THE MECHANICAL WORK TO AVOID LOCATION CONFLICTS. PRIOR TO ROUGH-IN, CONDUIT LOCATIONS SHOULD BE DISCUSSED WITH THE MECHANICAL SUB-CONTRACTOR, THE CONTROLS SUB-CONTRACTOR, AND THE MECHANICAL AND/OR ELECTRICAL ENGINEER. INSTALL EXTERIOR WIRING IN APPROPRIATE, UTILIZING WEATHERPROOF FITTINGS, BOXES AND COVERS. SUPPORT ALL CONDUIT FROM THE BUILDING STRUCTURE. DO NOT SUPPORT CONDUIT FROM: VENTILATING DUCTS, MECHANICAL PIPING, SUSPENDED CEILING GRIDS, OR THEIR HANGERS. USE ONLY ACCEPTABLE/LISTED MEANS OF SUPPORT. EACH CONDUIT TERMINATION IS TO BE PROVIDED WITH AN INSULATED PLASTIC BUSHING OR A CONNECTOR WITH AN INSULATED THROAT. NO EXCEPTIONS.
- Q. PROVIDE ALL CONDUIT, BOXES AND WIRING FOR THE AUDIO/VISUAL SYSTEM, THEATRICAL EQUIPMENT, AND ANY OTHER SPECIAL SYSTEMS AS SPECIFIED BY THE DRAWINGS AND/OR SPECIFICATIONS. REFER TO APPROPRIATE DRAWING FOR SPECIFICS. COORDINATE THE LOCATIONS, ELECTRICAL EQUIPMENT, AND WIRING REQUIREMENTS FOR A COMPLETE AND OPERATIONAL SYSTEM.
- R. THE CONTRACTOR SHALL REPAIR ALL DAMAGE TO WALLS, CEILING, ETC., IN A PROFESSIONAL MANNER. ALL REPAIRS SHALL BE MADE USING MATCHING MATERIALS AND SHALL BE PROFESSIONALLY FINISHED TO MATCH THE EXISTING CONDITIONS.
- S. ROOF PENETRATIONS SHALL BE OF THE TYPE APPROVED BY THE ARCHITECT, OWNER, AND ENGINEER. CONDUITS INSTALLED ON ROOFS SHALL BE SUPPORTED AT FOUR FEET (4') ON CENTERS, AND ASSOCIATED WIRING SHALL BE AMPACITY ADJUSTED PER NEC TABLE 310.15(B)(3)(c) (AMBIENT TEMPERATURE ADJUSTMENTS FOR RACEWAY AND CABLES EXPOSED TO SUNLIGHT ON OR ABOVE ROOFTOPS). ROOFTOP CONDUIT SUPPORTS ARE TO BE AS PRE-APPROVED BY THE ARCHITECT, OWNER AND ENGINEER. COORDINATE EXTERIOR CONDUIT ROUTING WITH MECHANICAL AND PLUMBING UTILITIES. ALL ROOF CONDUIT SHALL BE "IMC" OR "GRC", AND SHALL BE RUN PARALLEL AND PERPENDICULAR TO THE BUILDING EXTERIOR WALLS AND PARAPETS.
- T. ALL EMT FITTINGS (COUPLING AND CONNECTORS) ARE TO BE "STEEL COMPRESSION TYPE". THE USE OF "DIE-CAST OR SET SCREW" FITTINGS IS NOT ALLOWED. IN DAMP OR WET LOCATIONS, EMT FITTINGS SHOULD BE "WP" WEATHERPROOF FITTING AND MARKED.
- U. THE INSTALLATION OF ALL ELECTRICAL DEVICES SHALL COMPLY WITH THE "AMERICANS WITH DISABILITIES ACT" (ADA) AS ADOPTED BY THE STATE OF NEW MEXICO.
- V. ALL BRANCH CIRCUITS OVER 100 FEET IN LENGTH WILL UTILIZE #10 CONDUCTORS (MINIMUM).
- W. INSTALL ELECTRICAL EQUIPMENT AS NECESSARY OR AS INDICATED ON THE DRAWINGS. EXTEND ALL CONDUIT AND CONDUCTORS AND MAKE ALL FINAL CONNECTIONS MECHANICAL AND OWNER FURNISHED EQUIPMENT AS REQUIRED. LEAVE ALL EQUIPMENT OPERABLE CONDITION WITH APPROPRIATE OVERLOAD AND SERVICE DISCONNECT PROTECTION AS REQUIRED BY APPLICABLE CODES. FOLLOW THE MANUFACTURER'S INSTALLATION GUIDELINES WHERE APPLICABLE.
- X. EXPOSED CONDUIT WILL NOT BE ACCEPTED EXCEPT IN "UTILITY AREAS, OR WHERE SPECIFICALLY CALLED FOR ON THE DRAWINGS.
- Y. IN ADDITION TO RACEWAY BONDING REQUIRED BY THE CODE AND OUTLET BOX BONDING/JUMPERS, THE CONTRACTOR SHALL INSTALL A GREEN EQUIPMENT "GROUNDING" CONDUCTOR FOR EACH BRANCH CIRCUIT. THE EQUIPMENT GROUNDING CONDUCTOR SHALL BE BONDED AT ALL: JUNCTION BOXES, PULL BOXES, DISCONNECT SWITCHES, STARTERS, VFD'S AND MECHANICAL EQUIPMENT CABINETS, OR OTHER APPLICABLE EQUIPMENT.
- Z. **PLEASE NOTE:** ALL INDIVIDUAL CIRCUITS ARE REQUIRED TO HAVE THEIR OWN SEPARATE/DEDICATED "NEUTRAL". THE SHARING OF NEUTRALS BETWEEN CIRCUITS WILL NOT BE ACCEPTABLE UNDER ANY CIRCUMSTANCES.
- AA. PROVIDE A 20 AMP, 120 VOLT "GFCI" PROTECTED RECEPTACLE WITH A THREADED WEATHERPROOF BOX AND WEATHERPROOF COVER, MOUNTED ON A PIECE OF PROPERLY SUPPORTED "IMC" CONDUIT WITHIN TWENTY-FIVE FEET (25') OF EACH ROOFTOP MECHANICAL UNIT.
- AB. WIRING DEVICES SHALL BE RATED FOR THE GIVEN APPLICATION AS REQUIRED BY CODE. ALL SWITCHES AND RECEPTACLES SHALL BE RATED A MINIMUM OF 20 AMPS, AND SHALL BE EQUAL TO THE "HUBBELL CR AND CS" SERIES.
- AC. ALL CONDUCTORS SHALL BE COPPER, RATED FOR 600 VOLTS WITH TYPE "THIN/THWN" INSULATION, UNLESS OTHERWISE INDICATED OR SPECIFIED. MINIMUM WIRE SIZE SHALL BE #12 AWG (SOLID OR STRANDED). WIRE SIZED #10 AWG AND LARGER IS TO BE "STRANDED". ALL WIRING, INCLUDING LOW-VOLTAGE AND CONTROL WIRING IS TO BE RUN IN CONDUIT, UNLESS OTHERWISE NOTED.
- AD. ALL WIRES SHALL BE TAGGED AT ALL EQUIPMENT BOXES, JUNCTION BOXES, PULL BOXES, AND CABINETS WITH APPROVED PLASTIC TAGS BY "ACTION CRAFT", "BRADY", OR APPROVED EQUAL.
- AE. PULL/JUNCTION BOXES ARE TO BE PROVIDED AS SHOWN OR AS REQUIRED BY THE NEC.
- AF. ALL PANELBOARDS ARE TO BE COPPER BUS, AND DOOR-IN-DOOR WITH INDICATED "AIC" RATING AND NUMBER OF CIRCUITS AS SHOWN ON THE DRAWINGS. ALL CIRCUIT BREAKERS ARE TO BE THE "BOLT-IN" TYPE. THE USE OF "LOADCENTERS" WITH "STAB-IN" BREAKERS IS PROHIBITED. ALL PANELBOARDS ARE TO BE FURNISHED WITH BOTH A "NEUTRAL BAR" AND A "GROUNDING BAR". EACH WITH THE CAPACITY TO SERVE ALL CIRCUITS WITHIN THE PANELBOARD. PROPERLY IDENTIFY ALL PANELBOARDS WITH A LAMINATE LABEL SHOWING THE PANEL NAME, VOLTAGE, AND WHERE IT IS FED FROM. PROVIDE THE APPROPRIATE CIRCUIT BREAKERS, USING "HACR" FOR HEATING AND AIR CONDITIONING LOADS. PROVIDE "GFCI" CIRCUIT BREAKERS AS REQUIRED. PANEL DIRECTORIES ARE TO BE TYPE WRITTEN, AND SHOULD SHOW THE DEVICES AND THEIR APPROXIMATE LOCATION (I.E.: "RECEPTACLES, N. WALL, ROOM 115"), WHERE THE DIRECTORY IS TO DENOTE "SPARES" OR "SPACES". IT SHOULD BE DONE SO IN PENCIL TO ALLOW FOR LATER INSTALLATIONS. PANELBOARD BUS RATINGS WILL INDICATED ON THE PANEL SCHEDULES. SHORT CIRCUIT RATINGS OF PANELBOARDS AND OVER-CURRENT PROTECTION SHALL BE COORDINATED WITH UPSTREAM OVER-CURRENT PROTECTION AND AVAILABLE SHORT CIRCUIT ANALYSIS.
- AG. ALL DISCONNECT SWITCHES, STARTERS, VFD'S AND OTHER "CONTROLLING DEVICES" SHALL BE PROVIDED WITH ENGRAVED MICARTA NAMEPLATES INDICATING THE EQUIPMENT CONTROLLED, THE CIRCUIT IT IS INSTALLED ON, AND THE PANEL LOCATION IT IS FED FROM. NAMEPLATES ARE TO BE ATTACHED WITH SCREWS, NOT ADHESIVES.
- AH. INTERIOR EXHAUST FAN SWITCHES SHALL BE 20 AMP SINGLE POLE TOGGLE TYPE WITH A PILOT LIGHT. LABEL ALL INTERIOR EXHAUST FAN SWITCHES WITH ENGRAVED MICARTA NAMEPLATES READING "EXHAUST FAN". SEE THE SPECIFICATIONS TO DETERMINE IF OTHER LABELING IS REQUIRED, WHICH SHALL TAKE PRECEDENCE.
- AI. **PHASE PROTECTION:** ALL NEW MOTORS 1 HP AND ABOVE USING 3 PHASE POWER, AND 3 PHASE HVAC UNITS SHALL HAVE PROTECTION AGAINST PHASE REVERSAL. IT SHALL PROTECT AGAINST LOSS OF PHASE OR PHASE IMBALANCE OF 10% OR GREATER ON ANY ONE PHASE. THE UNIT SHALL BE AS MANUFACTURED BY "CUTLER HAMMER", PART #D60" OR EQUAL.
- AJ. THE FIRE ALARM SYSTEM SHALL BE APPROVED BY THE LOCAL AUTHORITY HAVING JURISDICTION PRIOR TO ROUGH-IN. ANY MODIFICATIONS OR ADDITIONS REQUIRED BY THE LOCAL AUTHORITY HAVING JURISDICTION SHALL BE INCLUDED IN THE ELECTRICAL CONTRACTOR BID. THE FAILURE TO INCLUDE ITEMS REQUIRED BY THE LOCAL AUTHORITY HAVING JURISDICTION IN THE CONTRACTOR'S BID WILL NOT BE CAUSE TO ADJUST THE CONTRACT AMOUNT.
- AK. ALL NEW OR EXISTING SMOKE DETECTOR'S SHALL BE BAGGED OR REMOVED DURING CONSTRUCTION. IF REMOVED, THEY SHOULD BE STORED IN A SEALED BAG UNTIL ALL WORK IS COMPLETE. IF THE SMOKE DETECTORS ARE NOT BAGGED OR REMOVED PRIOR TO THE COMMENCEMENT OF WORK, AND ARE DAMAGED, THEY SHALL BE REPLACED WITH NEW DETECTORS AT THE CONTRACTOR'S EXPENSE AT THE PROJECT COMPLETION.
- AL. THE CONTRACTOR SHALL PREPARE AND SUBMIT A COMPLETE SET OF "AS-BUILT" DRAWINGS DOCUMENTING ANY AND ALL WIRING AND EQUIPMENT LOCATIONS, CONDITIONS AND CHANGES WHILE PERFORMING THIS PROJECT. SUBMIT 1 (ONE) HARD COPY, AND 2 (TWO) ELECTRONIC (FLASH DRIVE) COPIES AT THE TIME OF SUBSTANTIAL COMPLETION.
- AM. THE ELECTRICAL CONTRACTOR SHALL BE RESPONSIBLE TO ADHERE TO THE 2014 NEC CODE ARTICLE 240.87 "ARC ENERGY REDUCTION" WHICH REQUIRES AN INDEPENDENT TESTING LABORATORY TEST AND PROVIDE THE CORRECT TRIP SETTINGS ON ANY OVER CURRENT DEVICE INSTALLED IN A CIRCUIT BREAKER THAT IS RATED OR THAT CAN BE ADJUSTED TO 1200 AMPS OR HIGHER. COPIES OF THIS DOCUMENTATION SHALL BE PROVIDED TO THE ELECTRICAL ENGINEER, THE FACILITY OWNER, AND THE AUTHORITY HAVING JURISDICTION (CODE OFFICIAL) AT OR PRIOR TO THE "FINAL INSPECTION".

SYMBOL LEGEND

- ○ ○ CEILING OR WALL BRACKET FIXTURE. SEE FIXTURE SCHEDULE.
- FLUORESCENT OUTLET AND FIXTURE. SEE FIXTURE SCHEDULE.
- 2X4 FLUORESCENT OUTLET AND FIXTURE. SEE FIXTURE SCHEDULE.
- 2X2 SURFACE MOUNTED FLUORESCENT
- 1X4 WALL MOUNT FLOURESCENT FIXTURE
- EXIT LIGHT. ARROWS INDICATE DIRECTIONAL ARROW ON FIXTURE.
- EM → EMERGENCY EGRESS LIGHTING FIXTURE WITH BATTERY PACK, SEE LIGHTING FIXTURE SCHEDULE, MH= 7'- 6" TO BOTTOM
- EX → EMERGENCY EXIT LIGHTING FIXTURE WITH BATTERY PACK, SEE LIGHTING FIXTURE SCHEDULE, MH= ABOVE DOOR EXIT.
- \$ SINGLE POLE WALL SWITCH, UP +48".
- \$ T THERMAL O.L. SWITCH
- \$ OS OCCUPANCY SENSOR SWITCH UP AT STANDARD HEIGHT.
- \$ D DIMMER SWITCH. SEE PLANS AND SPECS FOR CHARACTERISTICS
- \$ K KEYED SWITCH, UP +48". SEE PLANS
- \$ 3 THREE WAY SWITCH, UP +48" TO CENTER.
- ⊕ DUPLEX CONVENIENCE OUTLET, GROUNDING TYPE, UP +18" UNLESS OTHERWISE INDICATED
- ⊕ SINGLE OUTLET, ISOLATED GROUNDING TYPE, UP +18" UNLESS OTHERWISE INDICATED
- ⊕ FOURPLEX CONVENIENCE OUTLET, GROUNDING TYPE, UP +18" UNLESS OTHERWISE INDICATED
- ⊕ 250V-2P-4W SPECIAL PURPOSE GROUNDING OUTLET. AMPERAGE AS INDICATED.
- ⊕ JUNCTION BOX FLUSH IN WALL WITH CONNECTION TO EQUIPMENT.
- J-BOX ABOVE LAY-IN CEILING W/ FLEX CONDUIT TO LAY-IN FIXTURES
- ▶ TELEPHONE OUTLET, UP +18" UNLESS OTHERWISE INDICATED.
- ▶ COMBINATION DATA/VOICE, TWO GANG BOX MOUNTED +18" AFF OR COUNTER TOP OR AS NOTED. PROVIDE 3/4" EMPTY CONDUIT WITH PULLSTRING TO ABOVE ACCESSIBLE CEILING SPACE. DATA/VOICE CABLING AND DEVICE BY OWNER.
- TELEPHONE CONDUIT TO BACKBOARD, 1" MIN. WITH PULL WIRE.
- COMPUTER CONDUIT, 1" MIN. WITH PULL WIRE.
- TELEVISION CONDUIT, 1" MIN. WITH PULL WIRE.
- DISCONNECT SWITCH. SIZE AND POLES FOR LOAD CONNECTED.NEMA 3R
- SPECIAL SYSTEMS CABINET W/ HINGED DOOR AND KEYED LOCK
- SURFACE MOUNTED PANEL. SEE PANEL SCHEDULE FOR CHARACTERISTICS.
- FLUSH MOUNTED PANEL. SEE PANEL SCHEDULE FOR CHARACTERISTICS.
- T PAD MOUNTED TRANSFORMER
- ⊕ GROUND
- ⊕ MOTOR CONNECTION, FRACTIONAL H.P (LESS THAN 1/3 HP)
- ⊕ MOTOR CONNECTION WITH HP INDICATED.
- ⊕ 120 BRANCH CIRCUIT IN WALLS OR CEILING WITH CONDUCTORS INDICATED. (NEUTRAL, HOT, SWITCHED, AND GROUNDING CONDUCTOR-LEFT TO RIGHT RESPECTIVELY)
- ⊕ BRANCH CIRCUIT IN WALLS OR UNDER FLOOR, CONDUCTORS INDICATED.
- ⊕ HOME RUN TO PANEL, WITH BRANCH CIRCUIT NUMBERS INDICATED.
- ⊕ A-1 KEYED NOTE SYMBOL
- ⊕ MECHANICAL EQUIPMENT SYMBOL



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ARCHITECT

CONSULTANT



11/01/18

PROJECT TITLE

**SANTA FE
COUNTY
MADRID
FIRE STATION**

**MADRID
NEW MEXICO**

REVISIONS:

MK	DATE	DESCRIPTION

DRAWN BY: CHECKED BY:

ACE	FJT
-----	-----

PROJECT NUMBER:

A18.11

DATE:

9/25/18

SHEET TITLE:

**FIXTURE SCHEDULE,
GENERAL NOTES &
LEGEND**

SHEET NO.:

E-001



SHEET SPECIFICATIONS

SECTION 16010 - GENERAL PROVISIONS

PART 1 - GENERAL

1.01 SCOPE OF WORK

A. CONFORM WITH APPLICABLE PROVISIONS OF THE GENERAL PROVISIONS, SPECIAL CONDITIONS AND GENERAL REQUIREMENTS.

1.02 REQUIREMENTS

A. FURNISH ALL LABOR, MATERIALS, SERVICE EQUIPMENT AND APPLIANCES REQUIRED TO COMPLETE THE INSTALLATION OF THE COMPLETE ELECTRICAL SYSTEM IN ACCORDANCE WITH THE SPECIFICATIONS AND CONTRACT DRAWINGS.

1.03 REQUIREMENTS OF REGULATORY AGENCIES AND STANDARDS

A. REGULATORY AGENCIES: INSTALLATION, MATERIALS, EQUIPMENT AND WORKMANSHIP SHALL CONFORM TO THE APPLICABLE PROVISIONS OF THE LATEST EDITION OF THE NATIONAL ELECTRICAL CODE (NEC) - LATEST EDITION OF THE NEW MEXICO STATE CODE, THE NATIONAL ELECTRICAL SAFETY CODE (NEC), AND THE TERMS AND THE CONDITIONS OF THE AUTHORITIES HAVING LAWFUL JURISDICTION PERTAINING TO THE WORK REQUIRED. ALL MODIFICATIONS REQUIRED BY THESE CODES, RULES, REGULATIONS AND AUTHORITIES SHALL BE MADE BY THE CONTRACTOR WITHOUT ADDITIONAL CHARGE TO THE OWNER.
 B. UNDERWRITERS LABORATORIES (UL): ALL MATERIALS, APPLIANCES, EQUIPMENT OR DEVICES SHALL CONFORM TO THE APPLICABLE STANDARDS OF UNDERWRITERS LABORATORIES, INC. THE LABEL OF OR LISTING BY UL IS REQUIRED.

1.04 DEFINITIONS

A. "INSTALL" SHALL MEAN TO PLACE, FIX IN POSITION, SECURE, ANCHOR, ETC., INCLUDING NECESSARY APPURTENANCES AND LABOR SO THE EQUIPMENT OR INSTALLATION WILL FUNCTION AS SPECIFIED AND INTENDED.
 B. "SUPPLY" SHALL MEAN TO PURCHASE AND SUPPLY EQUIPMENT OR COMPONENTS.
 C. "PROVIDE" SHALL MEAN FURNISH AND INSTALL.
 D. "OR APPROVED EQUAL" SHALL MEAN EQUAL IN TYPE, DESIGN, QUALITY, ETC., AS DETERMINED BY THE ARCHITECT.

PART 2 - PRODUCTS

2.01 EQUIPMENT REQUIREMENTS

A. THE ELECTRICAL REQUIREMENTS FOR EQUIPMENT SPECIFIED OR INDICATED ON THE DRAWINGS ARE BASED ON INFORMATION AVAILABLE AT THE TIME OF DESIGN. IF EQUIPMENT FURNISHED FOR INSTALLATION HAS ELECTRICAL REQUIREMENTS OTHER THAN INDICATED ON THE ELECTRICAL DRAWINGS, THE CONTRACTOR SHALL MAKE ALL ADJUSTMENTS TO WIRE AND CONDUIT SIZE, CONDUIT RIGS, OVERCURRENT PROTECTION AND INSTALLATION AS REQUIRED TO ACCOMMODATE THE EQUIPMENT SUPPLIED, WITHOUT ADDITIONAL CHARGE TO THE OWNER. THE COMPLETE RESPONSIBILITY AND COSTS FOR SUCH ADJUSTMENTS SHALL BE ASSIGNED TO THE RESPECTIVE SECTION OF THIS SPECIFICATION UNDER WHICH THE EQUIPMENT IS FURNISHED.

2.02 MATERIALS

A. ALL SIMILAR MATERIALS AND EQUIPMENT SHALL BE THE PRODUCT OF THE SAME MANUFACTURER.
 B. WHERE NO SPECIFIC MATERIAL, APPARATUS OR APPLIANCE IS MENTIONED, ANY FIRST-CLASS PRODUCT MADE BY A REPUTABLE MANUFACTURER MAY BE USED, PROVIDED IT CONFORMS TO THE CONTRACT REQUIREMENTS AND MEETS THE APPROVAL OF THE ENGINEER.
 C. MATERIAL AND EQUIPMENT SHALL BE THE STANDARD PRODUCTS OF MANUFACTURERS REGULARLY ENGAGED IN THE PRODUCTIONS OF SUCH MATERIAL AND SHALL BE THE MANUFACTURER'S CURRENT AND STANDARD DESIGN.
 D. ALTITUDE: EQUIPMENT AFFECTED BY ALTITUDE SHALL PERFORM SATISFACTORILY FOR THE FUNCTION INTENDED AT AN ALTITUDE OF THE PROJECT SITE.

PART 3 - EXECUTION

3.01 GENERAL

B. FABRICATION, ERECTION AND INSTALLATION OF THE COMPLETE ELECTRICAL SYSTEM SHALL BE DONE IN A FIRST CLASS WORKMANLIKE MANNER BY QUALIFIED PERSONNEL EXPERIENCED IN SUCH WORK AND SHALL PROCEED IN AN ORDERLY MANNER SO AS NOT TO HOLD UP PROGRESS OF THE PROJECT. THE ELECTRICAL CONTRACTOR SHALL CHECK ALL AREAS AND SURFACES WHERE ELECTRICAL EQUIPMENT MATERIAL IS TO BE INSTALLED, REMOVED OR RELOCATED AND REPORT ANY UNSATISFACTORY CONDITIONS BEFORE STARTING WORK. COMMENCEMENT OF WORK SIGNIFIES THIS CONTRACTOR'S ACCEPTANCE OF EXISTING CONDITIONS. IN THE ACCEPTANCE OR REJECTION OF THE FINISHED INSTALLATION, NO ALLOWANCE WILL BE MADE FOR LACK OF SKILL ON THE PART OF WORKMEN.

3.02 PERFORMANCE TESTS

A. THOROUGHLY TEST ALL FIXTURES, SERVICES AND ALL CIRCUITS FOR PROPER OPERATING CONDITION AND FREEDOM FROM GROUNDS AND SHORT CIRCUITS BEFORE ACCEPTANCE IS REQUESTED. ALL EQUIPMENT, APPLIANCES, AND DEVICES SHALL BE OPERATED UNDER LOAD CONDITIONS.

3.03 AS-BUILT DRAWINGS

A. DURING PROGRESS OF THE WORK, MAINTAIN AN ACCURATE RECORD OF THE INSTALLATION OF THE SYSTEM, LOCATING EACH CIRCUIT PRECISELY BY DIMENSION. UPON COMPLETION OF THE INSTALLATION, TRANSFER ALL RECORD DATA TO BLUE LINE PRINTS OF THE ORIGINAL DRAWINGS.

3.04 DRAWINGS

A. GENERAL: THE ELECTRICAL DRAWINGS SHOW THE GENERAL ARRANGEMENT OF ALL CONDUIT, EQUIPMENT, ETC. AND SHALL BE FOLLOWED AS CLOSELY AS ACTUAL BUILDING CONSTRUCTION AND THE WORK OF OTHER TRADES WILL PERMIT. THE ARCHITECTURAL DRAWINGS SHALL BE CONSIDERED AS PART OF THE WORK INsofar AS THESE DRAWINGS FURNISH THE CONTRACTOR WITH INFORMATION RELATING TO THE DESIGN AND CONSTRUCTION OF THE BUILDING. ARCHITECTURAL DRAWING SHALL TAKE PRECEDENCE OVER ELECTRICAL DRAWINGS. BECAUSE OF THE SMALL SCALE OF THE ELECTRICAL DRAWINGS, IT IS NOT POSSIBLE TO INDICATE ALL OFFSETS, FITTINGS AND ACCESSORIES WHICH MAY BE REQUIRED. THE CONTRACTOR SHALL INVESTIGATE THE STRUCTURAL AND FINISH CONDITIONS AFFECTING THE WORK AND SHALL ARRANGE HIS WORK ACCORDINGLY, PROVIDING SUCH FITTINGS, ELBOW, PULLBOXES, AND ACCESSORIES AS MAY BE REQUIRED TO MEET SUCH CONDITIONS.
 B. FIELD MEASUREMENTS: THE CONTRACTOR SHALL VERIFY THE DIMENSIONS GOVERNING THE ELECTRICAL WORK AT THE BUILDING. NO EXTRA COMPENSATION SHALL BE CLAIMED OR ALLOWED ON ACCOUNT OF DIFFERENCES BETWEEN ACTUAL DIMENSIONS AND THOSE INDICATED ON THE DRAWINGS.

END OF SECTION 16010

SECTION 16110 - RACEWAYS, BOXES AND FITTINGS

PART 1 - GENERAL

1.01 CONFORMANCE

A. CONFORM WITH APPLICABLE PROVISIONS OF THE GENERAL CONDITIONS, SPECIAL CONDITIONS AND GENERAL REQUIREMENTS.

1.02 RELATED WORK IN OTHER SECTIONS

A. SECTION 16010, GENERAL PROVISIONS; SECTION 16450, GROUNDING.

PART 2 - PRODUCTS

2.01 CONDUITS

A. ELECTRICAL METALLIC TUBING (EMT); MILD STEEL, ZINC COATED ON THE OUTSIDE AND EITHER ZINC COATED OR COATED WITH AN APPROVED CORROSION RESISTANT COATING ON THE INSIDE. MAXIMUM SIZE 2 INCH ELECTRICAL TRADE SIZE UNLESS NOTED ON THE DRAWINGS OR SPECIFICALLY APPROVED.
 B. FLEXIBLE CONDUIT: COMMERCIAL GREENFIELD, GALVANIZED STEEL, WITH A SEPARATE GROUNDING BOND WIRE INSTALLED IN THE CONDUIT IN ADDITION TO OTHER WIRES.
 C. LIQUID TIGHT FLEXIBLE CONDUIT: FLEXIBLE GALVANIZED STEEL TUBING WITH EXTRUDED LIQUID TIGHT PVC OUTER JACKET AND A CONTINUOUS COPPER BONDING CONDUCTOR WOUND SPIRALLY BETWEEN THE CONVOLUTIONS. WHERE A SEPARATE GROUNDING CONDUCTOR IS INSTALLED IN THE CONDUIT, BONDING CONDUCTOR IN THE CONVOLUTIONS MAY BE OMITTED.

2.02 CONDUIT FITTINGS

A. CONNECTORS AND COUPLINGS: EMT COUPLINGS AND CONNECTORS EITHER STEEL OR MALLEABLE IRON ONLY; CONNECTORS TO HAVE INSULATED THROATS.
 B. BUSHINGS: INSULATED TYPE, DESIGNED TO PREVENT ABRASION OF WIRES WITHOUT IMPAIRING THE CONTINUITY OF THE CONDUIT GROUNDING SYSTEM, FOR CONNECTORS FOR EMT.
 C. EMT FITTINGS: IRON OR STEEL ONLY.
 D. LIQUID TIGHT FLEXIBLE CONDUIT FITTINGS: WITH THREADED GROUNDING CONE, A STEEL, NYLON OR EQUAL PLASTIC COMPRESSION RING AND A GLAND FOR TIGHTENING. EITHER STEEL OR MALLEABLE IRON ONLY WITH INSULATED THROATS AND MALE THREAD AND LOCKOUT OR MALE BUSHING WITH OR WITHOUT "O" RING SEAT. EACH CONNECTOR SHALL PROVIDE A LOW RESISTANCE GROUND CONNECTION BETWEEN THE FLEXIBLE CONDUIT AND THE OUTLET BOX, CONDUIT OR OTHER EQUIPMENT TO WHICH IT IS CONNECTED.
 E. FLEXIBLE CONDUIT FITTINGS (COMMERCIAL GREENFIELD): EITHER STEEL OR MALLEABLE IRON ONLY, WITH INSULATED THROATS.

PART 3 - EXECUTION

3.01 CONDUIT INSTALLATIONS

A. CONDUIT SYSTEMS: EMT CONDUIT UNLESS NOTED, USE FLEXIBLE CONDUIT ONLY FOR MOTOR OR EQUIPMENT CONNECTIONS AND THEN ONLY TO THE EXTENT OF MINIMUM LENGTHS REQUIRED FOR CONNECTIONS. INSTALL FLEXIBLE CONDUIT CONNECTIONS AT ALL RESILIENT MOUNTED EQUIPMENT. PROVIDE LIQUID TIGHT FLEXIBLE CONDUIT IN EXTERIOR, WET OR DAMP LOCATIONS AND FOR CONNECTIONS TO THE PIPE MECHANICAL SYSTEM. USE CONDUIT ONLY WHERE APPLICABLE. AT SERVICE ENTRANCE, ETC. USE IM, NMC, AND UF CABLING WHERE PERMITTED BY NEC.

3.02 CONDUIT SUPPORTS

A. SUPPORTS: PROVIDE SUPPORTS FOR HORIZONTAL CONDUITS AND EMT NOT MORE THAN 8 FEET APART WITH NOT LESS THAN TWO SUPPORTS FOR EACH 10 FOOT STRAIGHT LENGTH AND ONE SUPPORT NEAR EACH ELBOW OR BEND INCLUDING RUNS ABOVE SUSPENDED CEILING AND WITHIN 3 FEET OF ALL JUNCTION BOXES, SWITCHES, FITTINGS, ETC.
 B. STRAPS: INSTALL ONE HOLE PIPE STRAPS ON CONDUITS 1 1/2 INCH OR SMALLER. INSTALL INDIVIDUAL PIPE HANGERS FOR CONDUITS LARGER THAN 1 1/2 INCH. SPRING STEEL FASTENERS WITH HANGER RODS MAY BE USED IN DRY LOCATIONS IN LIEU OF PIPE STRAPS.

END OF SECTION 16110

SECTION 16120 - CONDUCTORS

PART 1 - GENERAL

1.01 CONFORMANCE

A. CONFORM WITH APPLICABLE PROVISIONS OF THE GENERAL CONDITIONS, SPECIAL CONDITIONS, AND GENERAL REQUIREMENTS.

PART 2 - PRODUCTS

2.01 WIRES AND CABLES (600 VOLTS)

A. TYPE: COPPER CONDUCTORS WITH 600 VOLTS INSULATION UNLESS OTHERWISE SPECIFIED OR NOTED ON THE DRAWINGS.
 B. USE OF ALUMINUM CONDUCTORS WILL NOT BE PERMITTED, UNLESS OTHERWISE NOTED.
 C. INSULATION: TYPE THIN/THWN INSULATION, AND SMALLER UNLESS OTHERWISE SPECIFIED OR NOTED ON THE DRAWINGS.
 D. SIZE: NO. 12 MINIMUM UNLESS OTHERWISE SPECIFIED OR NOTED ON THE DRAWINGS.
 E. COLOR CODING: COLOR CODING SHALL BE: A-BLACK, B-BLUE, C-BLUE, N-WHITE, FOR 120/208 VOLTS, WITH GREEN FOR ALL GROUND CONDUCTORS.
 F. TYPE IM, NMC AND UF CABLES SHALL BE PERMITTED IN ALL CONCEALED AREAS, AND WHERE PERMITTED BY NEC.

2.02 CONNECTORS AND LUGS

A. FOR COPPER CONDUCTORS NO. 6 AND SMALLER: 3M SCOTCH-LOK OR T & B STAKON COMPRESSION OR IDENT TYPE CONNECTOR WITH INTEGRAL OR SEPARATE INSULATING CAPS.
 B. FOR COPPER CONDUCTORS LARGER THAN NO. 6: SOLDERLESS, IDENT, HEX SCREW OR BOLT TYPE PRESSURE CONDUCTORS, PROPERLY TAPED OR INSULATED.

PART 3 - EXECUTION

3.01 SPLICES

A. PERMITTED ONLY AT OUTLETS OR ACCESSIBLE ENCLOSURES.

3.02 CABLE BENDS

A. RADIUS OF ENDS NOT LESS THAN 10 TIMES THE OUTER DIAMETER OF THE CABLE.

END OF SECTION 16120

SECTION 16140 - WIRING DEVICES AND PLATES

PART 1 - GENERAL

1.01 CONFORMANCE

A. CONFORM WITH APPLICABLE PROVISIONS OF THE GENERAL CONDITIONS, SPECIAL CONDITIONS AND GENERAL REQUIREMENTS.

PART 2 - PRODUCTS

2.01 SNAP SWITCHES

A. UNLESS OTHERWISE SPECIFIED, EACH SNAP SWITCH (FLUSH TUMBLER TOGGLE) SHALL BE OF THE A.C. GENERAL USE TYPE FOR MOUNTING IN A SINGLE GANG SPACING, FULLY RATED 20 AMPERES MINIMUM AT 120/277 VOLTS. IVORY COLOR HANDLES UNLESS OTHERWISE INDICATED ON THE DRAWINGS. SILVER OR SILVER ALLOY CONTACTS.

2.02 RECEPTACLES

A. GENERAL: FIRE RESISTANT, NON-ABSORPTIVE, HOT WELDED, PHENOLIC COMPOSITION OR EQUAL BODIES AND BASES WITH METAL PLASTER EARS (INTEGRAL WITH THE SUPPORTING MEMBER). IVORY COLOR UNLESS OTHERWISE NOTED ON THE DRAWINGS. DOUBLE GRIP CONTACTS FOR EACH PRONG.
 B. GROUNDING TYPE: ALL RECEPTACLES SHALL BE GROUNDING TYPE WITH A GREEN COLORED HEXAGONAL EQUIPMENT GROUND SCREW OF ADEQUATE SIZE TO ACCOMMODATE AN INSULATED GROUNDING JUMPER.

2.03 DEVICE PLATES

A. GENERAL: PROVIDE IVORY PHENOLIC DEVICE PLATES FOR EACH SWITCH, RECEPTACLE, SIGNAL AND TELEPHONE OUTLET.

END OF SECTION 16140

SECTION 16160 - PANELBOARDS

PART 1 - GENERAL

1.01 CONFORMANCE

A. CONFORM WITH APPLICABLE PROVISIONS OF THE GENERAL PROVISIONS, SPECIAL CONDITIONS, AND GENERAL REQUIREMENTS.

1.02 SUBMITTALS

A. SUBMIT COMPLETE SHOP DRAWINGS WITH OUTLINE DIMENSIONS, DESCRIPTIVE LITERATURE AND COMPLETE DESCRIPTIONS OF THE FRAME SIZE, TRIP SETTING, CLASS AND INTERRUPTING RATING OF ALL OVERCURRENT DEVICES. IDENTIFY AVAILABLE SPACE.

PART 2 - PRODUCTS

2.01 GENERAL

A. DEAD FRONT, SAFETY TYPE WITH VOLTAGE RATINGS AS SCHEDULED. PANELBOARDS SHALL BE OF THE LOADCENTER TYPE REQUIRED FOR THE SHORT CIRCUIT AND DUTY RATINGS INDICATED ON THE DRAWINGS OR SPECIFIED. ALL PANELBOARDS SHALL HAVE A NEUTRAL BUS AND A GROUND BUS.

2.02 BRANCH CIRCUIT PANELS

A. ALL BRANCH CIRCUIT PANELS FOR LIGHTING AND SINGLE PHASE LOADS SHALL BE "QUICK-CLAC" CIRCUIT BREAKERS WITH 10,000 AMPS INTERRUPTING CAPACITY, MAIN LUGS OR MAIN BREAKER AS INDICATED ON THE DRAWINGS.

B. BREAKERS: MOLDED CASE AS SCHEDULED OR REQUIRED. PROVIDE QUICK MAKE AND QUICK BREAK TOGGLE MECHANISM INVERSE TIME TRIP CHARACTERISTICS AND TRIP FREE OPERATION ON OVERLOAD OR SHORT CIRCUIT.
 C. DIRECTORIES: PROVIDE TYPEWRITTEN CIRCUIT DESCRIPTIONS.

PART 3 - EXECUTION

3.01 CIRCUIT NUMBERING

A. CIRCUIT NUMBERING SHOWN ON THE DRAWINGS IS BASED ON POLE POSITION IN THE PANELBOARD AND NOT CONSECUTIVE NUMBERS.

END OF SECTION 16160

SECTION 16450 - GROUNDING

PART 1 - GENERAL

1.01 RELATED WORK IN OTHER SECTIONS

A. SECTION 16010, GENERAL PROVISIONS; SECTION 16110, RACEWAYS, BOXES AND FITTINGS; SECTION 16120, CONDUCTORS; SECTION 16133, CABINETS; SECTION 16410, WIRING DEVICES AND PLATES; SECTION 16160, PANELBOARDS; SECTION 16170, MOTOR AND CIRCUIT DISCONNECTS; SECTION 16400, SERVICE AND DISTRIBUTION.

PART 2 - PRODUCTS

2.01 GROUNDING SYSTEM

A. MATERIALS, EQUIPMENT AND DEVICES RELATED TO THE GROUNDING SYSTEM ARE SPECIFIED UNDER OTHER SECTIONS OF THESE SPECIFICATIONS.

END OF SECTION 16450

PART 3 - EXECUTION

3.01 GENERAL

A. INSTALL TWO SEPARATE GROUNDING SYSTEMS: A SERVICE GROUNDING SYSTEM AND AN EQUIPMENT GROUNDING SYSTEM. THE SERVICE EQUIPMENT, CONDUIT SYSTEMS, SUPPORTS, CABINETS, EQUIPMENT, AND NEUTRAL CONDUCTOR SHALL BE GROUNDED IN ACCORDANCE WITH THE MINIMUM CODE REQUIREMENTS AND AS FURTHER INDICATED ON THE DRAWINGS OR SPECIFIED. CONNECT THE TWO GROUNDING SYSTEMS TOGETHER ONLY AT THE MAIN SERVICE EQUIPMENT AND AT THE SECONDARY TERMINALS OF TRANSFORMERS CREATING SEPARATELY DERIVED DISTRIBUTION SYSTEMS SUCH AS DRY-TYPE TRANSFORMERS.

3.02 SERVICE GROUNDING SYSTEM

A. GENERAL: THE SERVICE GROUNDING SYSTEM IS PROVIDED FOR THE AC SERVICE NEUTRAL GROUND. CURRENT RETURN CONDUCTORS, SUCH AS NEUTRALS OF THE SERVICE ENTRANCE, FEEDER CIRCUITS AND BRANCH CIRCUITS, SHALL NOT BE USED FOR EQUIPMENT GROUNDING. CARE MUST BE EXERCISED TO INSURE THAT NEUTRAL BARS ARE NOT BONDED TO THE ENCLOSURES OF PANELBOARDS, ETC., WHICH ARE NOT PART OF THE MAIN SERVICE EQUIPMENT. EXCEPT FOR SEPARATELY DERIVED SYSTEMS, THE NEUTRAL CONDUCTORS SHALL BE GROUNDED ONLY IN THE MAIN SERVICE EQUIPMENT.

3.03 EQUIPMENT GROUNDING SYSTEM

A. GENERAL: PROVIDE A COMPLETE EQUIPMENT GROUNDING SYSTEM IN ACCORDANCE WITH THE MINIMUM CODE REQUIREMENTS AND AS FURTHER INDICATED ON THE DRAWINGS OR SPECIFIED. THE EQUIPMENT GROUND (GREEN CONDUCTOR) CONSISTS OF METALLIC CONDITIONS TO GROUND OF NON-CURRENT CARRYING METAL PARTS OF THE WIRING SYSTEM OR APPARATUS CONNECTED TO THE SYSTEM. THE PRIMARY PURPOSE OF EQUIPMENT GROUNDING IS TO PROVIDE GREATER SAFETY BY LIMITING THE ELECTRICAL POTENTIAL BETWEEN NON-CURRENT CARRYING PARTS OF THE SYSTEM TO PROVIDE A LOW IMPEDANCE PATH TO GROUND FOR POSSIBLE GROUND FAULT CURRENTS.

3.04 GROUNDING ELECTRODES

A. THE SERVICE GROUND ELECTRODES SHALL BE UTILIZED. ONE SHALL BE THE MAIN COLD WATER METALLIC WATER PIPING SYSTEM AND THE OTHER SHALL BE A MADE ELECTRODE CONSISTING OF NOT LESS THAN TWENTY FEET OF BARE COPPER CONDUCTOR ENCASED ALONG THE BOTTOM OF A CONCRETE FOUNDATION FOOTING WHICH IS IN DIRECT CONTACT WITH THE EARTH (NEC 250-83A). MAKE THE CONNECTIONS TO THE COLD WATER PIPE INSIDE THE BUILDING AT THE POINT OF ENTRANCE. THE GROUNDING ELECTRODE FOR SEPARATELY DERIVED SYSTEMS SHALL BE APPROVED FOR THIS APPLICATION.

3.05 GROUNDING CONDUCTORS

A. THE GROUNDING CONDUCTORS FOR BOTH SERVICE GROUND ELECTRODES SHALL BE INSULATED OR BARE COPPER, SIZED IN ACCORDANCE WITH NEC 250-94(A), INCLUDING THE CONDUCTOR FOR THE MADE ELECTRODE. THE CONDUCTORS SHALL BE CONTINUOUS WITHOUT JOINT OR SPlice AND SHALL BE INSTALLED IN CONDUIT WITH THE CONDUIT BONDED TO THE CONDUCTOR AT EACH END. INSTALL THE CONDUCTOR TO PERMIT THE SHORTEST AND MOST DIRECT PATH AND TERMINATE IN THE MAIN SERVICE EQUIPMENT ON THE COMMON GROUND POINT. EQUIPMENT GROUNDING CONDUCTORS SHALL BE GREEN INSULATED CONDUCTORS EQUIVALENT TO THE INSULATION ON THE ASSOCIATED PHASE CONDUCTOR, BUT NOT LESS THAN TYPE TW. THE EQUIPMENT GROUNDING CONDUCTOR OR STRAPS SHALL BE SIZED IN ACCORDANCE WITH NEC. WHERE ONE FEEDER SERVES A SERIES OF PANELBOARDS OR TRANSFORMERS, THE EQUIPMENT GROUNDING CONDUCTOR SHALL BE CONTINUOUS WITHOUT SPLICES. GROUNDING CONDUCTORS SHALL NOT BE INSTALLED THROUGH METAL-SHEATHED HOLES. ALL CONNECTIONS SHALL BE AVAILABLE FOR INSPECTION AND MAINTENANCE.

3.06 GROUND CONNECTIONS

A. CLEAN SURFACES THOROUGHLY BEFORE APPLYING GROUND LUGS OR CLAMPS. IF SURFACE IS COATED THE COATING MUST BE REMOVED DOWN TO THE BARE METAL. AFTER THE COATING HAS BEEN REMOVED, APPLY A NON-CORROSIVE APPROVED COMPOUND TO CLEANED SURFACE AND INSTALL LUGS OR CLAMPS, WHERE GALVANIZING IS REMOVED FROM METAL, IT SHALL BE PAINTED OR TOUCHED UP WITH GALVANOLAC, OR EQUAL.

3.07 TESTS

A. TEST THE COMPLETED GROUNDING SYSTEM WITH A MEGGAR AT THE SERVICE GROUND BAR AND SUBMIT A WRITTEN REPORT TO THE ARCHITECT FOR APPROVAL. THE SERVICE SHALL NOT BE ENERGIZED IF THE TEST SHOWS MORE THAN 5 OHMS, UNLESS APPROVED BY THE ENGINEER.

END OF SECTION 16450

SECTION 16500 - LIGHTING EQUIPMENT

PART 1 - GENERAL

1.01 CONFORMANCE

A. CONFORM WITH APPLICABLE PROVISIONS OF THE GENERAL CONDITIONS, SPECIAL CONDITIONS, AND GENERAL REQUIREMENTS.

1.02 SUBMITTALS

A. SUBMIT FOR APPROVAL COMPLETE SHOP DRAWINGS, CATALOG CUTS, SPECIAL INSTALLATION INSTRUCTIONS, PHOTOMETRIC DATA AND DESCRIPTIVE LITERATURE.

PART 2 - PRODUCTS

2.01 GENERAL

A. FURNISH ALL LIGHTING FIXTURES THROUGHOUT THE TYPE INDICATED ON THE DRAWINGS, COMPLETE WITH LAMPS, SOCKETS, WIRING, FITTERS, HANGERS, PLASTER RINGS, CANOPES, ETC. AS REQUIRED.

2.02 LAMPS

A. FLUORESCENT LAMPS SHALL BE SYLVANIA OCTRON T8, SIMILAR AND EQUAL.
 B. INCANDESCENT LAMPS SHALL BE INSIDE FROSTED, MEDIUM BASE, EXTENDED SERVICE, 130 VOLT UNLESS OTHERWISE NOTED.

2.03 BALLASTS

A. BALLASTS FOR ALL FLUORESCENT FIXTURES SHALL BE OF THE ELECTRONIC SOLID STATE TYPE.

2.04 FLUORESCENT FIXTURES

A. ALL FIXTURES, BALLASTS, AND SUPPORTS SHALL BE QUIET IN OPERATION. LOUVERS, SHIELDS, REFLECTORS AND ALL SECTIONS OF THE CHANNEL STRUCTURE SHALL BE SECURELY HELD IN POSITION.

PART 3 - EXECUTION

3.01 SUPPORTS

A. SUPPORT CEILING FIXTURES TO METAL SUPPORTS PROVIDED FOR THAT PURPOSE OF SUITABLE STRENGTH AND STABILITY, ADEQUATELY ATTACHED TO AND SUPPORTED BY JOISTS, TRUSSES, OR OTHER STRUCTURAL MEMBERS.

3.02 CLEAN-UP

A. AT FINAL INSPECTION ALL FIXTURES AND LIGHTING EQUIPMENT SHALL BE IN FIRST CLASS OPERATING ORDER, IN PERFECT CONDITION AS TO FINISH AND FREE FROM DEFECTS, COMPLETELY LAMPED, CLEAN AND FREE FROM DUST, PLASTER OR PAINT SPOTS AND COMPLETE WITH THE REQUIRED GLASSWARE, REFLECTORS, SIDE PANELS, LOUVERS OR OTHER COMPONENTS NECESSARY TO COMPLETE THE FIXTURES.

END OF SECTION 16500



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11/01/18

PROJECT TITLE

SANTA FE COUNTY MADRID FIRE STATION

MADRID NEW MEXICO

REVISIONS:

NO. DATE DESCRIPTION

DRAWN BY: CHECKED BY:

ACE FUT

PROJECT NUMBER:

A18.11

DATE:

9/25/18

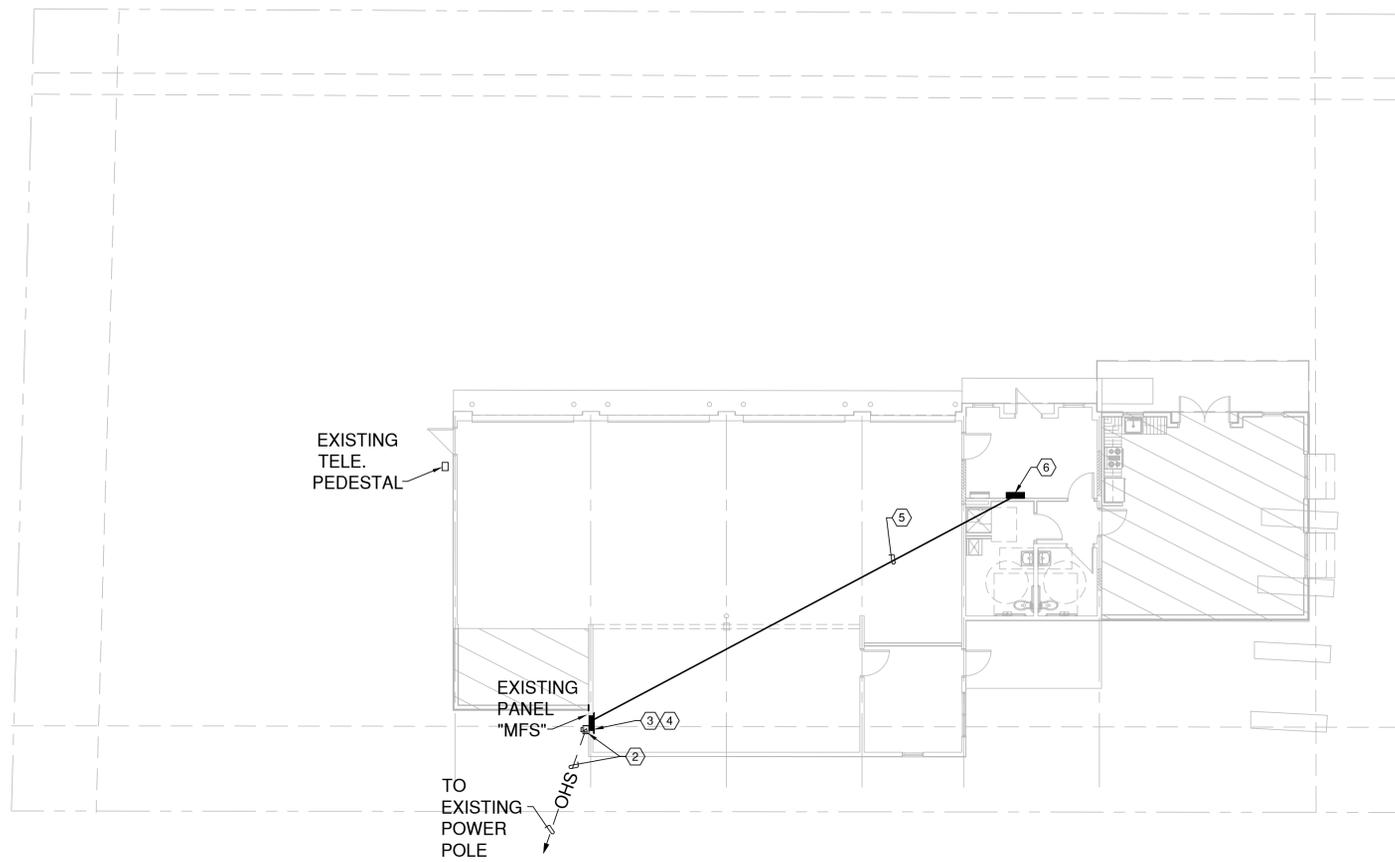
SHEET TITLE:

SHEET SPECIFICATIONS

SHEET NO.:

E-002

D
C
B
A



B2 ELECTRICAL SITE PLAN
SCALE: 1"=10'-0"

PANEL SCHED GENERAL NOTES

- A. ALL 120/240V BRANCH CIRCUIT PANELS WITH BOLT ON CIRCUIT BREAKER CONSTRUCTION SHALL BE SQ "D" QO, SIMILAR AND EQUAL.
- B. ALL 120/240V PANEL BOARDS SHALL HAVE MINIMUM 10KAIC RATING, UNLESS OTHERWISE NOTED.
- C. ALL PANEL BOARDS SHALL HAVE COPPER BUS, BOLT-IN BREAKERS, AND DOOR-IN-DOOR CONSTRUCTION. ALL SURFACE PANELS IN THE FINISHED AREAS SHALL BE PROVIDED WITH SKIRTS FLOOR-TO-CEILING (FIELD VERIFY DIMENSIONS), AND ELSEWHERE AS NOTED ON THE PLANS.
- D. ALL PANEL BOARDS SHALL HAVE TYPED CIRCUIT DIRECTORIES, PLACED BEHIND CLEAR PLASTIC PROTECTIVE COVER. DESIGNATIONS ON DIRECTORY SHALL BE MORE DESCRIPTIVE THAN AS SHOWN ON THE DRAWING PANEL SCHEDULES. "SPARES" AND "SPACES" SHALL BE INDICATED ON DIRECTORY WITH ERASABLE PENCIL (NOT TYPED).
- F. ALL PANEL BOARDS SHALL BE PROVIDED WITH NAMEPLATES SECURED TO EQUIPMENT WITH SELF-TAPPING STEEL SCREWS. NAMEPLATES SHALL BE LAMINATED PLASTIC WITH ENGRAVED 1/2" WHITE LETTERS ON BLACK BACKGROUND AND SHALL INDICATE PANEL DESIGNATION, VOLTAGE, PHASE, AND AMPACITY AND LOCATION OF OVER CURRENT PROTECTIVE DEVICE FEEDING PANEL.
- G. ALL PANEL BOARDS SHALL BE PROVIDED WITH GROUND BUS/GROUND STRIP MOUNTED ON A CLEAN SURFACE OF THE PANEL BOARD CAN. GROUND CONDUCTOR SHALL BE PROVIDED TO THE PANEL BOARD GROUND BUS FROM THE GROUND SYSTEM IN THE SERVICE ENTRANCE SECTION OF DISTRIBUTION SECTION.
- H. ALL PANEL BOARDS SHALL HAVE FACTORY FURNISHED CIRCUIT BREAKER NUMBERING. PUNCHED TAPE OR MARKERS WILL NOT BE PERMITTED. BRANCH CIRCUIT BREAKER NUMBER ON PANEL BOARDS SHALL MATCH NUMBERING AS SHOWN ON THE PLANS.
- J. ALL BRANCH CIRCUIT CONDUCTORS EXTENDING FROM PANEL BOARDS TO RESPECTIVE DEVICES SHALL BE COLOR CODED AND SHALL BE INSTALLED CONTINUOUS IN EACH RUN AND SHALL HAVE A TAG DESIGNATING THE BRANCH CIRCUIT NUMBERS LOCATED AT ALL JUNCTION BOXES. THE COLOR CODE SCHEME SHALL BE AS FOLLOWS:
1.) FOR 120/240V: PHASE A - BLACK, PHASE B - RED, NEUTRAL - WHITE, EQUIPMENT GROUND - GREEN.
- K. ALL CONDUCTORS IN PANEL BOARDS SHALL BE NEATLY INSTALLED AND TIE-WRAPPED WITHIN PANEL BOARDS.

SHEET KEYNOTES

1. EXISTING POWER POLE AND POLE MOUNTED TRANSFORMER TO REMAIN. NO WORK, SHOWN FOR REFERENCE ONLY.
2. EXISTING WEATHERHEAD/RISER TO 120/240V-10 METER ON BUILDING, 3-#3/0 THWN IN 2" C. NO WORK, SHOWN FOR REFERENCE ONLY.
3. EXISTING FEEDER TO EXISTING 200A, 120/240V-10-3W PANEL TO REMAIN. RENAME PANEL TO "MFS", SHOWN FOR REFERENCE ONLY.
4. EXISTING PANEL "MFS" TO REMAIN (MADRID FIRE STATION). SHOWN FOR REFERENCE.
5. ROUTE 3 #3 THHN/THWN & 1 #8 CU. GR. IN 1.25" C. IN CEILING SPACE.
6. PROVIDE NEW PANEL. SEE PANEL SCHEDULE.

LOAD SUMMARY -- 120/240V - 1PH - 3W

LOAD	CONNECTED LOAD	DEMAND LOAD
LIGHTING LOAD	4.3 KW	5.5 KW
RECEPTACLE LOAD	33.5 KW	26.7 KW
HVAC LOAD	8.0 KW	8.0 KW
TOTAL	45.8 KW	40.2 KW = 168 AMPERES

THE EXISTING 200A SERVICE IS ADEQUATELY RATED FOR THE PROPOSED NEW DEMAND LOAD

SHORT CIRCUIT CALCULATIONS

ASSUME 75 KVA PAD MOUNT TRANSFORMER WITH 2%Z. MAXIMUM LET THROUGH SHORT CIRCUIT CURRENT AT THE SECONDARY TERMINALS OF THE POLE MOUNT TRANSFORMER = 9,422 AMPERES. MAXIMUM CALCULATED FAULT CURRENT AT NEW PANEL "M" = 8,145A. NEW PANEL "M" SHALL BE PROVIDED WITH MINIMUM 10KAIC CIRCUIT BREAKERS.

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11/01/18

PROJECT TITLE

**SANTA FE COUNTY
MADRID
FIRE STATION**

**MADRID
NEW MEXICO**

REVISIONS:

MK	DATE	DESCRIPTION

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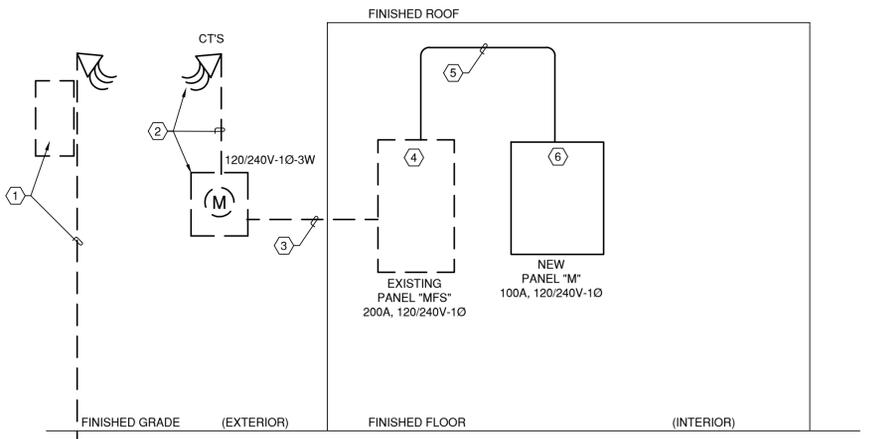
9/25/18

SHEET TITLE:

**ELECTRICAL
SITE PLAN**

SHEET NO.:

ES-101



A1 POWER RISER DIAGRAM
NOT TO SCALE

PANEL SCHEDULE

EXISTING PANEL: MFS LOCATION: MECH. AREA VOLTS: 120 / 240 1PH 3W
NO. POLES: 42 200A MAIN CIRCUIT BREAKER
BUS RATING: 200 MOUNTING: RECESSED
VINTAGE BIENENS "TIE" LOAD CENTER #240M1200 10 KA MINIMUM INTERRUPTING CAP.

DESCRIPTION	LOAD	TYPE	BRKR	P	CKT	PH	CKT	P	BRKR	TYPE	LOAD	DESCRIPTION
SERVICE DISCONNECT			200A	3	1	A	2	1	20A1P			SPACE
MAIN												SPACE
(EX) LIGHTS BAY 1	840	L	20A1P	1	9	A	10	1	20A1P	R	1000	(EX) GARAGE DOOR 1
(EX) LIGHTS BAY 2	840	L	20A1P	1	11	B	12	1	20A1P	R	1000	(EX) GARAGE DOOR 2
(EX) RECEPTACLES LIGHTS-NORTH	840	L	20A1P	1	13	A	14	1	20A1P			SPACE
(EX) LIGHTS BAY 3	840	L	20A1P	1	15	B	16	1	20A1P			SPACE
(EX) RECEPTACLES WEST	540	R	20A1P	1	17	A	18	1	20A1P	R	540	TRAINING RM 111 PROJECTOR
(EX) RECEPTACLES UNIT HEATER-SOUTH	540	R	20A1P	1	19	B	20	1	20A1P			SPACE
(EX) GARAGE DOOR 3	1000	R	20A1P	1	21	A	22	2	30A	R	2000	(EX) DRYER/WASHER
(EX) GARAGE DOOR 4	1000	R	20A1P	1	23	B	24	2	30A	R	2000	SPACE
(EX) OFFICE LIGHTS	540	L	20A1P	1	25	A	26	2	30A			SPACE
(EX) LIGHTS BAY 4	840	L	20A1P	1	27	B	28	2	30A			SPACE
(EX) H2O HEAT	840	R	20A1P	1	29	A	30	1	20A1P			SPACE
SPACE			20A1P	1	31	B	32	1	20A1P			SPACE
SPACE				1	33	A	34	2	60A	R	4500	EVH-1 ELECTRIC WATER HEATER
SPACE				1	35	B	36	2	60A	R	4500	SKW, 43.3 A
SPACE				1	37	A	38	1				SPACE
SPACE				1	39	B	40	2	100A	P	12166	NEW PANEL "M"
SPACE				1	41	A	42	2		P	11345	

LOAD SUMMARY	TOTAL	DEMAND FACTOR	ESTIMATED MAX. DEMAND	CONNECTED PHASE LOADING	EST. MAX. DEM.:
P-PANELS	23.5	0.50	18.8	PHASE A: 23285.0	38.1 KVA
L-LIGHTING	3.7	1.25	4.7	PHASE B: 23116.0	0.0 KVA
R-RECEPTACLES	19.2	0.50	14.6	Panel total	46.4 KVA
A-APPLIANCES	0.0	0.75	0.0		EST. MAX. DEM.:
M-MOTORS	0.0	1.00	0.0		0% SPARE:
D-SPARE	0.0	1.00	0.0		E.M.D. + SPARE:
TOTAL	46.4 KVA		38.1 KVA		178.2 AMPS

PANEL SCHEDULE

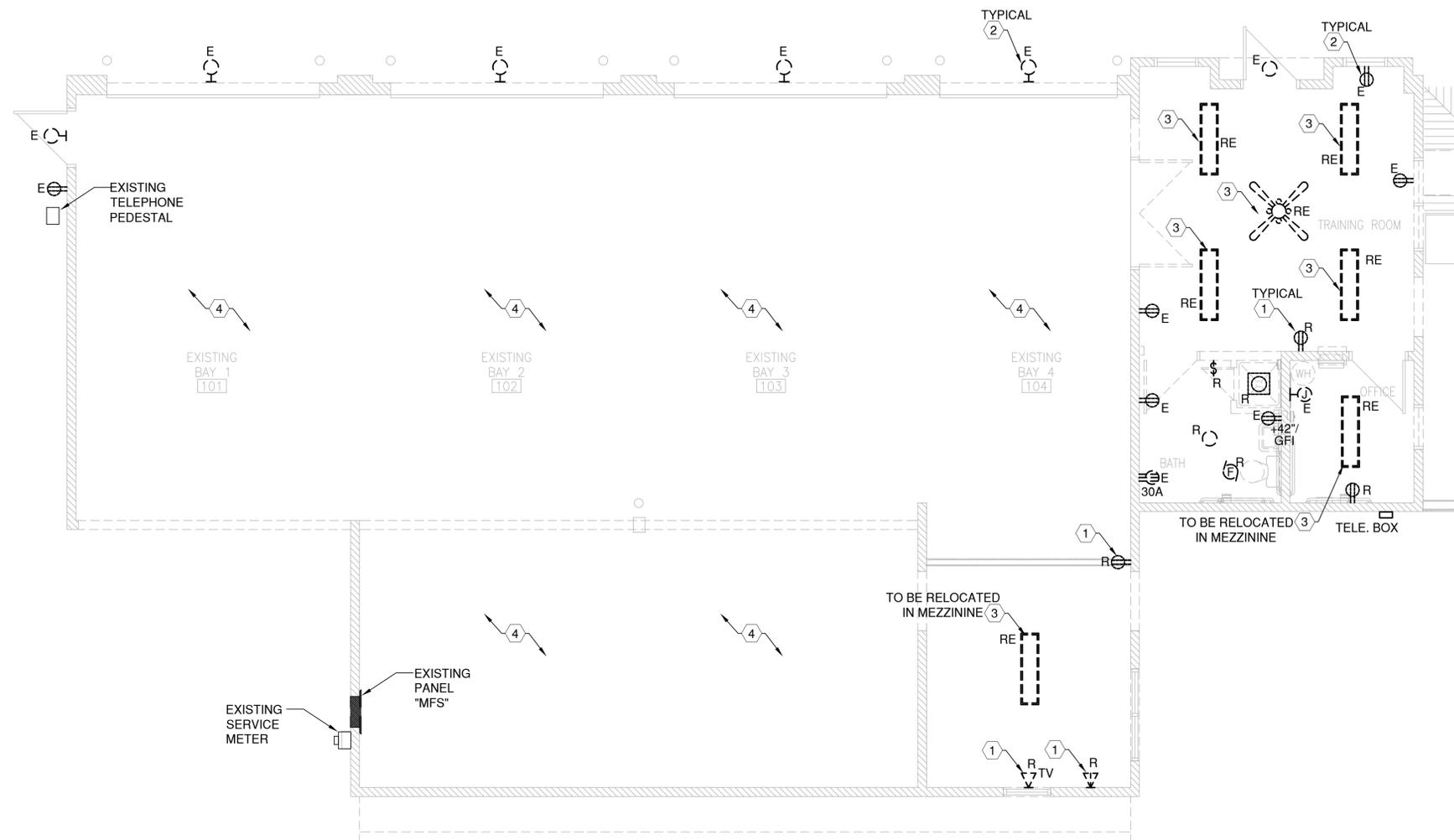
NEW PANEL: M LOCATION: MECH. AREA VOLTS: 120 / 240 1PH 3W
NO. POLES: 24 MAIN LUG ONLY
BUS RATING: 125 MOUNTING: SURFACE

DESCRIPTION	LOAD	TYPE	BRKR	P	CKT	PH	CKT	P	BRKR	TYPE	LOAD	DESCRIPTION
HALL & RESTROOMS	540	R	20A1P	1	1	A	2	1	20A1P	R	720	EXERCISE ROOM
TRAINING ROOM-RECEPT	540	R	20A1P	1	3	B	4	1	20A1P	R	720	MEZZ. LTS. RECEPT & RESTROOMS-FANS
TRAINING ROOM-REFRIG	600	A	20A1P	1	5	A	6	1	20A1P	R	600	TRAINING ROOM-GARBAGE DISPOSAL
TRAINING ROOM-COUNTER	540	R	20A1P	1	7	B	8	1	20A1P	L	540	TRAINING ROOM & KITCHENETTE
TRAINING ROOM-MICROWAVE	600	R	20A1P	1	9	A	10	2	20A	R	1500	EXERCISE ROOM-PTAC
TRAINING ROOM-ELECTRIC STOVE	3500	R	50A	2	11	B	12	2	2P	R	1500	200V-1PH, 15 MCA
SPACE					13	A	14	1	20A1P	L	96	BUILDING LIGHTS
SPACE					15	B	16	1	20A1P			SPACE
SPACE					17	A	18	1	20A1P			SPACE
SPACE					19	B	20	1	20A1P			SPACE
RTU-1, 200V-1 PH, 21.3 MCA	2000	M	30A	2	21	A	22	2	30A	M	2000	RTU-2, 200V-1 PH, 21.3 MCA
2#10 THWN + 1#10 GR, N 1/2" C.	2000	M	2P	23	B	24	2	2P	M	2000	2#10 THWN + 1#10 GR, N 1/2" C.	

LOAD SUMMARY	TOTAL	DEMAND FACTOR	ESTIMATED MAX. DEMAND	CONNECTED PHASE LOADING	EST. MAX. DEM.:
P-PANELS	0.0	1.00	0.0	PHASE A: 12156.0	21.4 KVA
L-LIGHTING	0.0	1.25	0.0	PHASE B: 11345.0	0.0 KVA
R-RECEPTACLES	14.3	0.50	12.1	Panel total	23.5 KVA
A-APPLIANCES	0.0	0.75	0.0		EST. MAX. DEM.:
M-MOTORS	8.0	1.00	8.0		0% SPARE:
D-SPARE	0.0	1.00	0.0		E.M.D. + SPARE:
TOTAL	23.5 KVA		21.4 KVA		99.0 AMPS

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A1 DEMOLITION ELECTRICAL PLAN
SCALE: 1/4" = 1'-0"

SHEET KEYNOTES

1. REMOVE ALL EXISTING DEVICES, BACKBOXES, LIGHTING INDICATED WITH AN "R".
2. EXISTING TO REMAIN IS INDICATED WITH AN "E". UTILIZE EXISTING BACKBOX AND CONDUIT SYSTEM AND PROVIDE NEW WIRE, FACEPLATE/DEVICE'S AS REQUIRED. SEE NEW WORK DRAWING.
3. EXISTING LIGHTING TO BE RELOCATED. SEE NEW WORK DRAWING FOR LOCATION. FAN AND TWO LIGHT FIXTURES TO BE CENTERED IN NEW OFF. 106. AND TWO LIGHT FIXTURE AT BOTTOM TO BE CENTERED IN EXTENSION OF BAY #1 (ALT. #1).
4. ALL ELECTRICAL APPARATUS TO REMAIN. NO WORK IN THESE AREAS, UNLESS NOTED OTHERWISE.

DEMO GENERAL NOTES

- A. THE CONTRACTOR SHALL VERIFY EXTENT OF DEMOLITION WITH EXISTING CONDITIONS, PRIOR TO BID, AND SHALL INCLUDE ALL WORK REQUIRED TO COMPLETELY DISCONNECT ASSOCIATED EQUIPMENT AND TO COMPLETELY REMOVE ALL ASSOCIATED BRANCH CIRCUIT WIRING, WHERE REQUIRED.
- B. COMPUTER/DATA/PHONE CABLES SHALL BE REROUTED IF NECESSARY. CABLES SHALL BE RELOCATED PER OWNER REPRESENTATIVE REQUIREMENTS.
- C. THE OWNER SHALL HAVE FIRST RIGHT OF REFUSAL ON ELECTRICAL EQUIPMENT TO BE REMOVED.
- D. ALL EQUIPMENT REMOVED, NOT CLAIMED BY THE OWNER, SHALL BECOME THE PROPERTY OF THE CONTRACTOR AND THE CONTRACTOR SHALL BE RESPONSIBLE TO PROPERLY DISPOSE OF ELECTRICAL EQUIPMENT REMOVED.
- F. NOT ALL BUILDING DETAILS AND BRANCH CIRCUIT CONDUIT/WIRING TO BE REMOVED ARE SHOWN ON THE PLANS. THE CONTRACTOR MAY REQUEST, AT HIS DISCRETION, TO REVIEW EXISTING ELECTRICAL, MECHANICAL, AND ARCHITECTURAL PLANS, AT THE OFFICE OF THE ARCHITECT.
- G. COORDINATE DEMOLITION FOR EXISTING ELECTRICAL EQUIPMENT BEING REMOVED. ALL ELECTRICAL EQUIPMENT DOWNSTREAM, WHICH REMAINS, AND OUT OF THE DEMOLITION AREA, SHALL REMAIN "ON" AT ALL TIMES. THE CONTRACTOR SHALL BE RESPONSIBLE TO COORDINATE GENERAL DEMOLITION WITH THE OWNER TO AVOID PROBLEMS WITH CIRCUITS BEING DISCONNECTED AND REMOVED WHICH MAY AFFECT OTHER AREAS OUTSIDE OF THE WORK AREA.
- H. THE CONTRACTOR SHALL FIELD SURVEY OUTLETS TO REMOVE AND WHICH OUTLETS OR DEVICES REMAIN PRIOR TO BID. NOT ALL OUTLETS/DEVICES TO BE REMOVED ARE SHOWN ON THE PLAN. DURING DEMO PROCESS, COORDINATE REMOVALS WITH ARCHITECT IN THE FIELD. RE-FEED ALL OUTLETS THAT ARE DISCONNECTED DURING DEMO THAT SHALL REMAIN TO NEAREST AVAILABLE RECEPTACLE CIRCUIT. THE CONTRACTOR SHALL DETERMINE AND FIELD VERIFY CAPACITY OF CIRCUITS TO COMBINE NEW AND EXISTING RECEPTACLES AND INTERCEPTED CIRCUITS. COMPLY AS REQUIRED FOR CODE RESTRICTIONS AND SPECS.
- J. THE CONTRACTOR SHALL SURVEY SPACES ABOVE CEILING FOR UPGRADE WORK OF DEFICIENT EXISTING ELECTRICAL EQUIPMENT. THIS REMEDIAL ABOVE CEILING WORK MAY INCLUDE PROVIDING ADEQUATE CONDUIT SUPPORTS, REPLACING CODE DEFICIENT FLEXIBLE ELECTRICAL POWER CABLE, PROVIDING MISSING JUNCTION BOX COVERS, REPAIRING BROKEN OR SEPARATED CONDUIT, AND PROVIDING EXTENSION RINGS FOR OVER-CROWDED JUNCTION BOXES. ALL THIS WORK SHALL BE INCLUDED IN THE BID PRICE.
- K. THE CONTRACTOR SHALL BE RESPONSIBLE TO RESOLVE DEFICIENT CABLE RELATED WORK IN EXPOSED CEILING AREAS. THIS MAY INCLUDE ITEMS SUCH AS SUPPORT OF EXISTING CABLE AND REPLACEMENT OF NON-PLENUM RATED CABLE OR REMOVAL OF ABANDONED CABLES.
- L. NOT ALL OUTLETS/DEVICES TO REMAIN ARE SHOWN ON THE PLAN. DURING THE DEMO PROCESS, COORDINATE REMAINING DEVICES WITH ARCHITECT IN THE FIELD. RE-FEED ALL OUTLETS/DEVICES TO REMAIN THAT ARE DISCONNECTED DURING DEMO.
- M. EVERYWHERE IN THIS AREA, FOR THE DURATION OF THE PROJECT, THE CONTRACTOR IS RESPONSIBLE FOR DISCONNECT AND RECONNECT OF BRANCH CIRCUITS AND REPLACEMENT OF ELECTRICAL MATERIALS AND LABOR TO RESTORE COMPLETE AND OPERATIONAL SYSTEMS. THIS INCLUDES THE CORRECTION OF ANY CODE DEFICIENCIES RELATED TO RENOVATIONS ON THIS PROJECT.
- N. COORDINATE WITH ARCHITECT/ENGINEER AND FIELD VERIFY STATUS OF DEVICES, OUTLETS, CONDUIT AND WIRE AS A RELOCATION, DEMOLITION, OR TO REMAIN. FIELD VERIFY RE-FEEDING EXISTING DEVICES, RE-ROUTING OR NEW CIRCUITING. FIELD VERIFY CAPACITY OF CIRCUITS TO COMBINE NEW AND EXISTING RECEPTACLES AND INTERCEPTED CIRCUITS. COMPLY AS REQUIRED FOR CODE RESTRICTIONS AND SPECS.
- P. PROVIDE NEW CIRCUIT BREAKERS OF THE SAME TYPE OR BLANK SPACE COVERS AS MAY BE NECESSARY TO FILL PANEL FOR SAFETY. FIELD SURVEY CIRCUITS THAT MAY BE ABANDONED. RELOCATE, IF NECESSARY, CIRCUIT RUNS EXPOSED BY DEMO WORK THAT SHALL BE KEPT OPERATIONAL.
- Q. DISCONNECT POWER TO ELECTRICAL CIRCUITS AND EQUIPMENT IN THESE AREAS ENTIRELY BACK TO PANEL CIRCUIT BREAKER. DISCONNECT AND REMOVE ALL EXISTING CONDUIT, CONDUCTORS, CABLE, CONTROLS, AND BOXES, ETC. FOR THIS DEMO. THE ONLY EXCEPTION WILL BE FOR NEW CONTROLS AND DEVICES WHERE EXISTING AND UNDAMAGED BOXES/CONDUIT CAN BE UTILIZED BY THE CONTRACTOR. THE CONTRACTOR SHALL REFER TO NEW WORK PLANS AND SPECIFICATIONS IN ALL DIVISIONS THAT RELATE TO ELECTRICAL WORK IN THIS PROJECT. COORDINATE DEMOLITION AND INSTALLATION WITH FIELD CONDITIONS AS THEY MAY APPLY. ALL EQUIPMENT SHALL BE MADE OPERATIONAL-NO EXCEPTIONS. COORDINATE WITH REPRESENTATIVES OF THE OWNER, ARCHITECT, AND ENGINEERS FOR CONDUIT LOCATION AND TERMINATION POINTS IF NOT SPECIFIED ON PLANS.
- R. ALL ELECTRICAL SHOWN IS EXISTING. COORDINATE WITH ALL NOTES. WALLS TO BE REMOVED AND ARCHITECTURAL.

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FREDERICK J. TELSKO
STATE OF NEW MEXICO
REGISTERED PROFESSIONAL ENGINEER
6297
11/01/18

PROJECT TITLE

**SANTA FE COUNTY
MADRID
FIRE STATION**

MADRID
NEW MEXICO

REVISIONS:

NO.	DATE	DESCRIPTION

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DRAWN BY: CHECKED BY:

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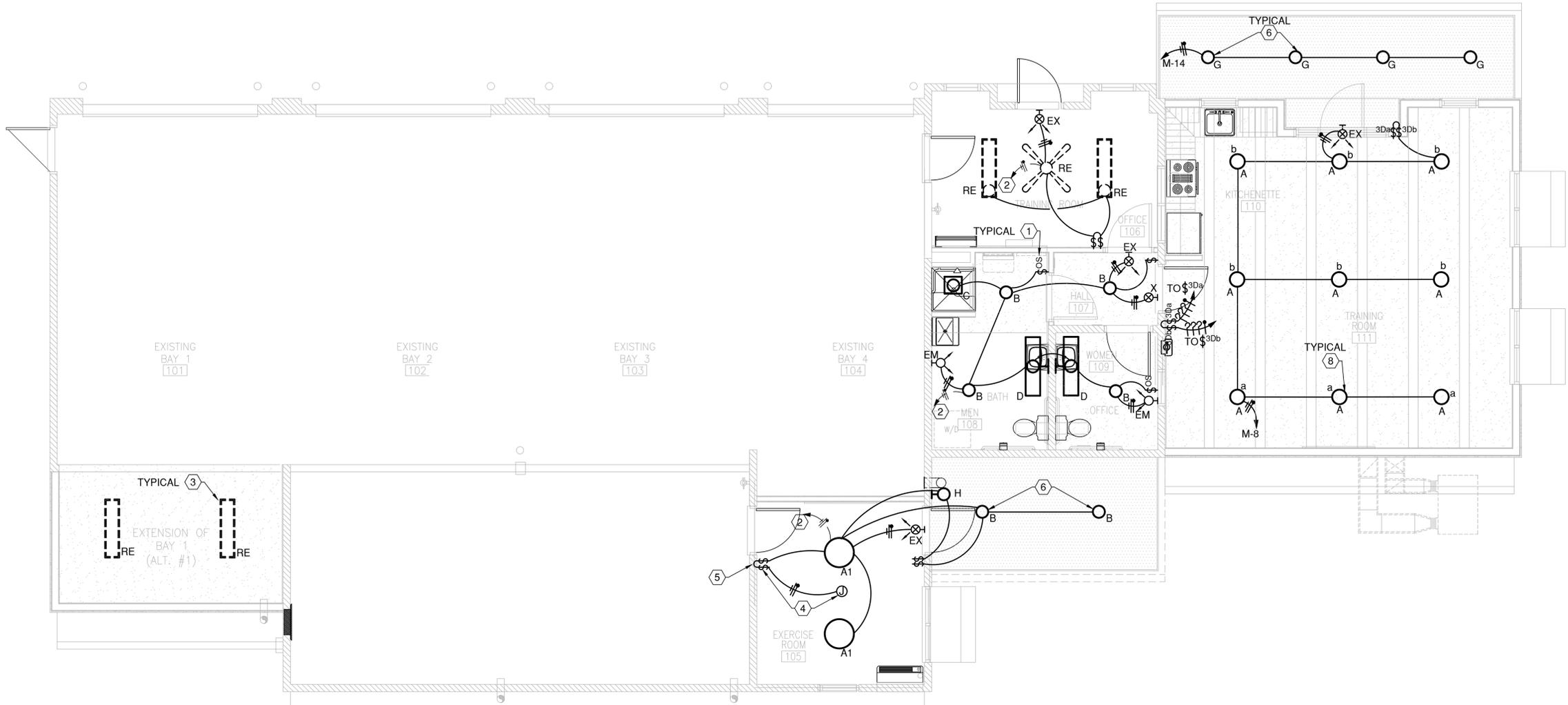
SHEET TITLE:

**DEMOLITION
ELECTRICAL
PLAN**

SHEET NO:

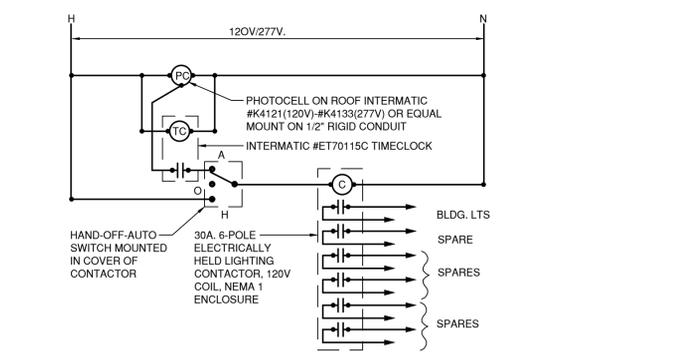
ED-101

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LIGHTING POWER BUDGET
INTERNATIONAL ENERGY CONSERVATION CODE - TENANT AREA
TABLE 505.5.2
INTERIOR LIGHTING POWER

TENANT AREA	PERMISSABLE WATTS/SQFT	AREA	WATTS PERMISSIBLE	WATTS CONNECTED
FIRE STATION	1.0 WATTS/SQ. FT.	1,338 SQ. FT.	1338 WATTS	622 WATTS
				.46 W/SQ. FT. PASSES



A3 EXTERIOR LIGHTING CONTROL DIAGRAM
NOT TO SCALE

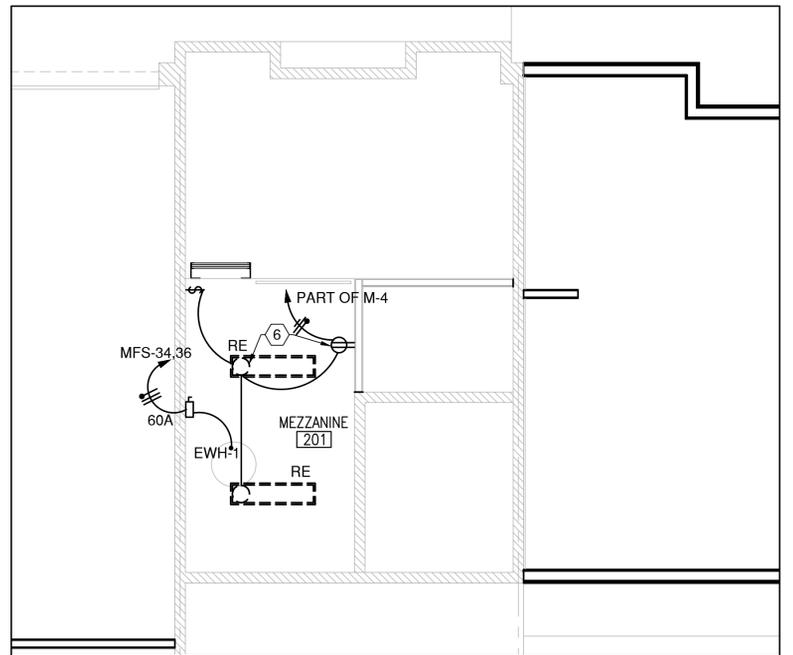
GENERAL SHEET NOTES

- A. EMERGENCY LIGHT FIXTURES SHALL BE MOUNTED MAXIMUM 8'-0" AFF. AND CONNECTED TO A NON-SWITCHED CIRCUIT.
- B. ALL DEVICE PLATES SHALL BE PHENOLIC PLASTIC WHITE TYPE. ALL DEVICES SHALL BE WHITE IN COLOR.
- C. COORDINATE THE EXACT LOCATIONS OF ALL CEILING MOUNTED LIGHT FIXTURES WITH THE ARCHITECTURAL REFLECTED CEILING PLANS.
- D. ALL SWITCHES SHALL BE PROVIDED WITH PERMANENT LABELING IDENTIFYING PANEL AND BRANCH CIRCUIT CONNECTED TO.
- E. ALL HOMERUNS OVER 100' TO BE MINIMUM 3/4" WITH MINIMUM #10 BRANCH CIRCUITS.
- F. ALL EXTERIOR BUILDING MOUNTED LIGHT FIXTURES SHALL COMPLY WITH NEW MEXICO DARK SKIES ACT. REFER TO THE ARCHITECTURAL ELEVATIONS FOR MOUNTING HEIGHTS AND LOCATION PRIOR TO ROUGH-IN OF FIXTURES IF APPLICABLE.
- G. ALL LIGHTING BRANCH CIRCUITS SHALL BE MINIMUM #12 + #12 GROUND IN .5" UNLESS OTHER INDICATED.
- J. COORDINATE ALL LIGHTING WITH MECHANICAL EQUIPMENT AND SUPPLY AND RETURN DUCTS.
- K. COORDINATE ALL LOCATIONS, QUANTITY OF OCCUPANCY SENSOR SWITCHES WITH THE MANUFACTURER PRIOR TO ORDERING.

SHEET KEYNOTES

1. FURNISH AND INSTALL PIR TYPE OCCUPANCY SENSOR WALL SWITCH WITH DUAL RELAY FOR FAN CONTROL.
2. EXTEND AND CONNECT TO EXISTING BRANCH CIRCUIT AS REQUIRED.
3. RE-LOCATE EXISTING LIGHT FIXTURE AT THIS LOCATION FROM EXISTING UTILITY ROOM AND CONNECT TO EXISTING (BA) BRANCH CIRCUIT.
4. PROVIDE LEGRAND WIREMOLD SERIES 400 SWITCH BOX WITH BLANK COVER PLATE FOR FUTURE SWITCH AND IN CEILING FOR FUTURE CEILING FAN RATED FOR WEIGHT/SUPPORT WITH LEGRAND WIREMOLD #400BAC-WH SERIES RACEWAY SYSTEM WITH PULL CORD AS INDICATED.
5. PROVIDE LEGRAND WIREMOLD SERIES #400BAC-WH WITH ALL ACCESSORIES FOR A COMPLETE AND WORKING INSTALLATION.
6. ADDITIVE ALTERNATE: COORDINATE WITH ARCHITECT. MOUNT IN SOFFIT OF CANOPY. PROVIDE ALL ACCESSORIES FOR A COMPLETE WORKING INSTALLATION.
7. TO CIRCUIT INDICATED VIA EXTERIOR LIGHTING CONTACTOR. SEE EXTERIOR LIGHTING CONTROL DIAGRAM.
8. BOTTOM OF LIGHT FIXTURE MOUNTING HEIGHT TO BE 9'-0". COORDINATE WITH ARCHITECT/OWNER.
9. RELOCATE LIGHT FIXTURE AND PROVIDE NEW RECEPTACLE IN MEZZ.

A1 ELECTRICAL LIGHTING PLAN
SCALE: 1/4" = 1'-0"



A3 MEZZANINE-LIGHTING PLAN
SCALE: 1/4" = 1'-0"

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CONSULTANT



11/01/18
PROJECT TITLE

**SANTA FE COUNTY
MADRID
FIRE STATION**

**MADRID
NEW MEXICO**

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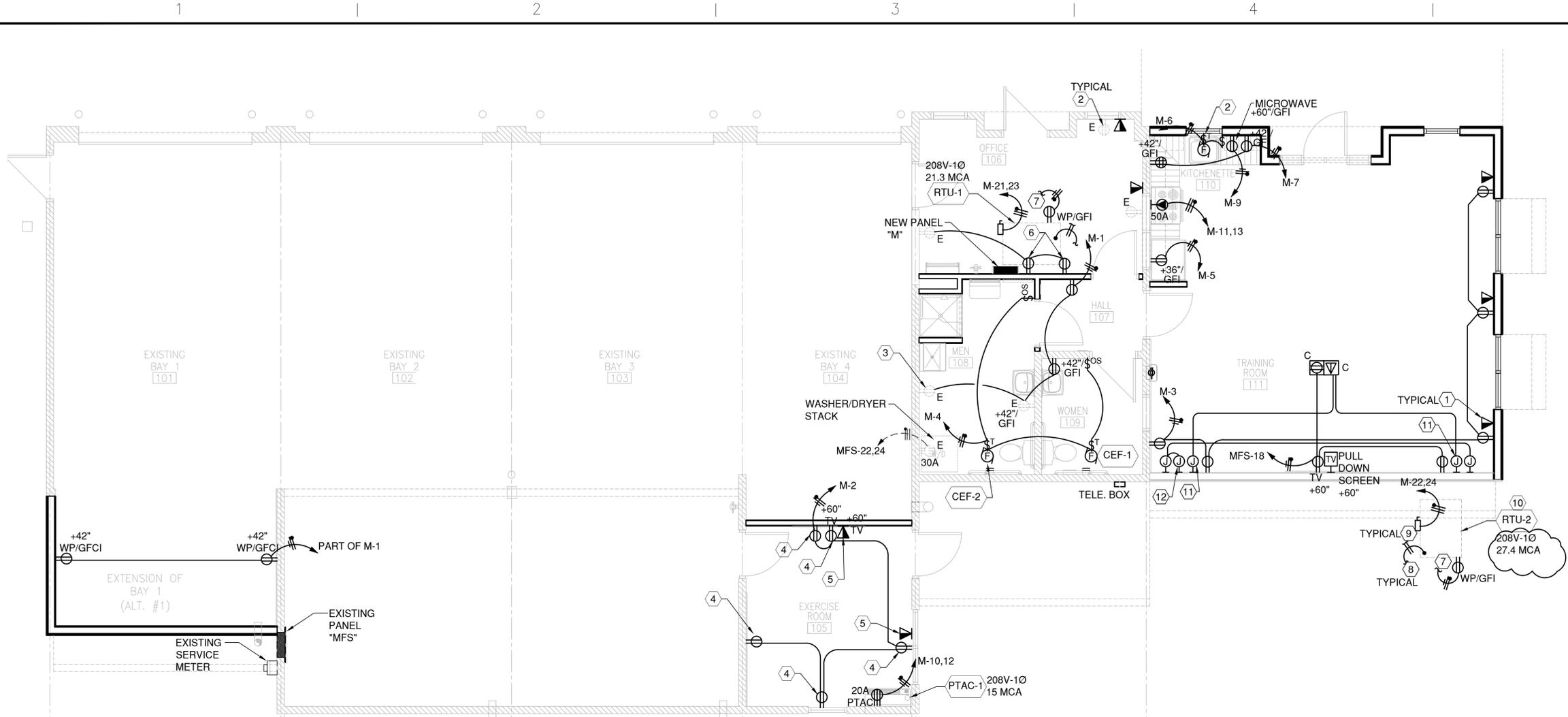
9/25/18

SHEET TITLE:

ELECTRICAL LIGHTING PLAN

SHEET NO:

EL-101



POWER GENERAL SHEET NOTES

- A. ALL DEVICE PLATES SHALL BE PLASTIC PHENOLIC TYPE WHITE IN COLOR. ALL DEVICES SHALL BE WHITE IN COLOR.
- B. ALL RECEPTACLES SHALL BE PROVIDED WITH PERMANENT LABELING IDENTIFYING PANEL AND BRANCH CIRCUIT CONNECTED TO.
- C. ALL OUTLETS TO BE MOUNTED IN CONFORMANCE WITH ADA RULES AND REGULATIONS.
- D. COORDINATE OUTLET HEIGHTS AND LOCATION WITH ARCHITECTURAL INTERIOR ELEVATIONS (CASEWORK, SINKS, LAVATORIES, ETC.)
- E. ALL DUPLEX OUTLETS LOCATED WITHIN 6' OF ALL SINKS, IN ALL RESTROOMS, IN ALL JANITOR CLOSETS, EXTERIOR OF BUILDING, ON THE ROOF AND, ELSEWHERE AS DICTATED BY NEC, SHALL BE 20A GFI TYPE.
- F. ALL HOMERUNS OVER 100' TO BE MINIMUM 3/4" C WITH MINIMUM #10 BRANCH CIRCUITS.
- G. ALL BRANCH CIRCUITS SHALL BE MINIMUM 2#12 + 1#12 GROUND IN .5" CONDUIT, UNLESS OTHERWISE INDICATED.
- H. COORDINATE ALL CORD AND PLUG NEMA CONFIGURATIONS WITH EQUIPMENT BEING INSTALLED PRIOR TO ROUGH-IN.

HVAC GENERAL SHEET NOTES

- A. COORDINATE ALL HVAC EQUIPMENT LOCATION, VOLTAGE, PHASE, AND MINIMUM CIRCUIT AMPS WITH THE MECHANICAL TO AVOID CONFLICTS.
- B. PROVIDE PERMANENT LABELS ON ALL HVAC EQUIPMENT DISCONNECT SWITCHES INDICATING BRANCH CIRCUIT AND PANEL CONNECTED TO.
- C. PROVIDE STRANDED CONDUCTORS FOR ALL MECHANICAL EQUIPMENT FROM THE UNIT TO THE NEAREST TERMINATION POINT THAT IS VIBRATION FREE.
- F. PROVIDE WEATHER-TIGHT FLEXIBLE CONDUIT CONNECTION AT ALL HVAC EQUIPMENT.
- G. ALL CONTROL AND ALARM CABLES SHALL BE IN CONDUIT IN INACCESSIBLE AREAS, UNLESS NOTED OTHERWISE.
- H. MAINTAIN CLEARANCES IN FRONT OF DISCONNECT SWITCHES IN ACCORDANCE WITH N.E.C.
- J. ALL PENETRATIONS SHALL BE CAULKED WITH APPROVED MATERIAL TO MAINTAIN THE FIRE RATING OF WALLS, FLOORS AND ROOFS.
- K. ALL T-STATS PROVIDED BY MECHANICAL CONTRACTOR, ELECTRICAL CONTRACTOR TO FURNISH BOX, CONDUIT & PULLSTRING.

SHEET KEYNOTES

- 1. PROVIDE 4" SQ. J-BOX WITH SINGLE MUDPLATE AND 3/4" C. WITH PULLSTRING UP WALL TO ABOVE CEILING SPACE AND EXTEND TO "TTB" LOCATION. COORDINATE LOCATION WITH OWNER AND FIELD VERIFY. PROVIDE PLASTIC BUSHING AT END OF CONDUIT.
- 2. MOUNT GARBAGE DISPOSAL RECEPTACLE IN KITCHEN COUNTER AND PROVIDE 20A-1P TOGGLE SWITCH CONTROL. COORDINATE WITH ARCHITECT & PLUMBING.
- 3. RAISE BACKBOX UP 36" AND PROVIDE NEW RECEPTACLE. EXTEND TO EXISTING CIRCUIT AS PREVIOUSLY CONNECTED.
- 4. WALL RECEPTACLES: PROVIDE LEGRAND WIREMOLD SERIES #400 WITH ALL ACCESSORIES FOR A COMPLETE AND WORKING INSTALLATION.
- 5. PROVIDE LEGRAND WIREMOLD SERIES #400 WITH PULL STRING FOR DATA AND ROUTE TO ABOVE CEILING SPACE TO ENTRANCE END FITTING. PROVIDE ALL ACCESSORIES FOR A COMPLETE AND WORKING INSTALLATION.
- 6. CONNECT TO EXISTING CIRCUIT.
- 7. CONNECT TO CLOSEST 120V RECEPTACLE.
- 8. 3/4" C. WITH PULL STRING TO 4" SQ. J-BOX WITH MUDPLATE AT T-STAT LOCATION. COORDINATE WITH MECHANICAL FOR EXACT LOCATION.
- 9. PROVIDE 240V, 30A-2P+S/N FUSED DISCONNECT SWITCH IN NEMA 3R ENCLOSURE. FUSE PER MANUFACTURER'S SPECIFICATIONS. COORDINATE WITH MECHANICAL PRIOR TO ROUGH-IN.
- 10. THIS RTU WILL BE LOCATED ON THE GROUND. COORDINATE WITH MECHANICAL AND ARCHITECTURAL PRIOR TO ANY ROUGH-IN.
- 11. PROVIDE EMPTY 4" SQ. JUNCTION BOX WITH SINGLE GANG MUD PLATE AT LOCATION INDICATED AND EXTEND 1" C. WITH PULL STRING TO CEILING MOUNTED PROJECTOR. COORDINATE WITH OWNER/ARCHITECT PRIOR TO ROUGH-IN.
- 12. SPEAKER MOUNTED AT 9'-0" A.F.F. PROVIDE HANDY BOX FOR SPEAKERS AND 1/2" C. WITH PULL STRING TO NORTH SIDE 4" SQ. EXTRA DEEP JUNCTION BOX WITH SINGLE GANG MUD PLATE FOR PRESENTER LAPTOP LOCATION. COORDINATE WITH OWNER/ARCHITECT PRIOR TO ROUGH-IN. COORDINATE WITH OWNER/ARCHITECT PRIOR TO ROUGH-IN.

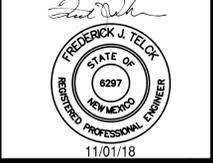
A1 ELECTRICAL POWER PLAN
SCALE: 1/4" = 1'-0"



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PROJECT TITLE

SANTA FE COUNTY MADRID FIRE STATION

MADRID NEW MEXICO

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ELECTRICAL POWER PLAN

SHEET NO.:

EP-101

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