Alamogordo Fire Station 6 : addition

<u>ITEM</u>

BUILDING OCCUPANCY CONSTRUCTION TYPE ALLOWABLE AREA

MAX. HEIGHT / STORIES PUBLIC OCCUPANT LOAD (EXIST. + NEW ADDITION) OCCUPANT LOAD @ ADDITION

NO. OF EXITS EXIT WIDTH EXTERIOR WALL FIRE RESISTANCE MIN. CORRIDOR WIDTH

PROJECT DATA CODE REQUIREMENT

B - NS TYPE V - B 9.000 S.F.

40 FT. / 2 STORIES 16 (OFFICE 1/100 S.F 26.8 (TRUCK BAYS 1/200) 18.8 (TRUCK BAY 1/200

PROVIDED

B - NS TYPE V - B 3,200 S.F. (EXIST) 3,773 S.F. (ADDITION) 6,973 S.F. TOTAL

20 FT. / 1 STORY

42.8 = 42 TOTAL

18.8 = 18 2 EXIST + 2 NEW 144" TOTAL

5'-0" E.T.R.

N/A

SITE REQUIREMENTS

ZONING	R-1 TO M-1 CONDITIONAL (BUILDING CONSIDERED LIGHT COMME	RCIAL)		
MIN. LOT AREA	-	ACTUAL LOT AREA	123.75 AC		
MIN. LOT WIDTH	-	ACTUAL LOT WIDTH	-		
MIN. LOT DEPTH	-	ACTUAL LOT DEPTH	-		
FRONT SETBACK	15 FT.	ACTUAL SETBACK	46'-7" E.T.R.		
SIDE SETBACK	5 FT.	ACTUAL SETBACK	238'-0" NORTH E.T.R. SOUTH		
REAR SETBACK	-	ACTUAL SETBACK	-		
MAX. HEIGHT	-	ACTUAL HEIGHT	20'-0" ROOF		
PARKING RATIO	(PARKING IS EXISTING TO	REMAIN)			
REQUIRED SPACES	-	SPACES PROVIDED	8		
ACCESSIBLE SPACES REQUIRED	1	ACCESSIBLE SPACES PROVIDED	1		
SITE CONDITIONS ARE EXISTING TO REMAIN. CONSTRUCTION AREA WILL BE 0.32AC OF TOTAL 123.75AC SITE OWNED BY THE CITY OF ALAMOGORDO.					

OCCUPANCY LOAD

USE	AREA S.F.	LOAD FACTOR	# OCCUPANTS
OFFICES (EXIST.)	1,600	1/100	16
TRUCK BAYS (EXIST.)	1,600	1/200	8
TRUCK BAYS (NEW)	3,773	1/200	18.8
TOTAL OCCUPANTS			42.8

PLUMBING FIXTURE REQUIREMENTS

42 MAX OCCUPANTS (TOTAL)					
	WATER	CLOSETS			
	REQUIRED	PROVIDED			
MALE	1	1 EXIST.			
FEMALE	1	1 EXIST.			
SINGLE USE		1 EXIST.			
DRINKING FOUNTAINS	1	2			
SERVICE SINK	1	1			

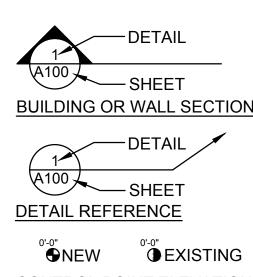
21 MEN & 21 WOMEN URINALS LAVATORIES

PROVIDED	REQUIRED	PROVIDED
0	1	1 EXIST.
0	1	1 EXIST.
		1 EXIST.

REGULATING CODES

INTERNATIONAL BUILDING CODE UNIFORM MECHANICAL CODE NEW MEXICO MECHANICAL CODE UNIFORM PLUMBING CODE NEW MEXICO PLUMBING CODE **INTERNATIONAL FIRE CODE** NATIONAL ELECTRIC CODE NEW MEXICO ELECTRICAL CODE AMERICAN NATIONAL STANDARDS INSTITUTE A117 NEW MEXICO COMMERCIAL BUILDING CODE

SYMBOLS / REFERENCE TAGS



00 A700 -----SHEET **ELEVATION REFERENCE**

2015

2021

2021

2021

2021

2015

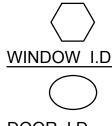
2017

2017

2009

2015

-ELEVATION



CONTROL POINT ELEVATION

DOOR I.D.

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ABBREVIATIONS

ACT	ACOUSTICAL TILE
ACU	AIR HANDLER UNIT
ADA	AMERICANS WITH DISABILITIES ACT
AFF	ABOVE FINISHED FLOOR
ALUM	ALUMINUM
ASPH	ASPHALT
B.O.F.	BOTTOM OF FOOTING
C&G	CURB & GUTTER
C.J.	CONTROL JOINT
ଜ	CENTER LINE
CMU	CONCRETE MASONRY UNIT
C.O.L.C.	CITY OF LAS CRUCES
CONC	CONCRETE
DEG	DEGREES
DEMO	DEMOLISH, DEMOLITION
DET	DETAIL
DG	DOOR GRILLE
DS	DOWNSPOUT
DUMP	DUMPSTER
EL & ELEC	ELECTRICAL COMPONENT
EXST	EXISTING
E.J.	EXPANSION JOINT
FD	FIRE DAMPER
FE	FIRE EXTINGUISHER
F.F.	FINISH FLOOR
FP	FLAG POLE
F.O.B.	FACE OF BRICK
F.O.S.	FACE OF STUD/ FACE OF SLAB
GA	GAUGE
GALV	
GS GYP BD	
	GYPSUM BOARD
H/C	HANDICAPPED
HDW	HARDWARE
H.M.	HOLLOW METAL
HT LP	HEIGHT LIGHT POLE
LP MAT'L	MATERIAL
MAX MD	MAXIMUM MOTION DETECTOR
MH	MOTION DETECTOR
MIN	MINIMUM
MIN	METAL
N.I.C.	NOT IN CONTRACT
NO	NUMBER
OC	ON CENTER
P	PAINT AND COLOR NO.
PL	PLASTIC LAMINATE AND COLOR NO.
PT	PRESSURE TREATED
PVC	POLY VINYL CHLORIDE
RAD	RADIUS
REINF	REINFORCING
RET	RETAINING
SCWD	SOLID CORE WOOD
SIM	SIMILAR
SHT	SHEET
SQ	SQUARE
STL	STEEL
ТНК	THICK
T.J.	TOOLED JOINT
T.O.B.	TOP OF BRICK
T.O.C.	TOP OF CURB
T.O.C.W.	TOP OF CONCRETE WALK
Т.О.Р.	TOP OF PARAPET
T.O.W.	TOP OF WALL STRUCTURE
TRNS	TRANSFORMER
T.S.	TUBE STEEL
TYP	
U.N.O.	
	UNITED STATES POSTAL SERVICE
USPS	
	UTILITY WELL
USPS	UTILITY WELL VINYL COMPOSITION TILE
USPS UW	
USPS UW VCT	VINYL COMPOSITION TILE
USPS UW VCT W.C.O.	VINYL COMPOSITION TILE WALL CLEAN OUT
USPS UW VCT W.C.O. WD	VINYL COMPOSITION TILE WALL CLEAN OUT WOOD
USPS UW VCT W.C.O. WD WH	VINYL COMPOSITION TILE WALL CLEAN OUT WOOD WALL HYDRANT
USPS UW VCT W.C.O. WD WH WL	VINYL COMPOSITION TILE WALL CLEAN OUT WOOD WALL HYDRANT WELL
USPS UW VCT W.C.O. WD WH WL WP	VINYL COMPOSITION TILE WALL CLEAN OUT WOOD WALL HYDRANT WELL WATER PIPE
USPS UW VCT W.C.O. WD WH WL WP WM	VINYL COMPOSITION TILE WALL CLEAN OUT WOOD WALL HYDRANT WELL WATER PIPE WATER METER
USPS UW VCT W.C.O. WD WH WL WP WM WM	VINYL COMPOSITION TILE WALL CLEAN OUT WOOD WALL HYDRANT WELL WATER PIPE WATER METER WATER
USPS UW VCT W.C.O. WD WH WL WP WM WT WWF	VINYL COMPOSITION TILE WALL CLEAN OUT WOOD WALL HYDRANT WELL WATER PIPE WATER METER WATER WATER WELDED WIRE FABRIC

DRAWING INDEX

COVER SHEET

	OVERALL SITE PLAN DIMENSION SITE PLAN	
S200 S201 S300	TURAL GENERAL NOTES FOUNDATION PLAN FOUNDATION DETAILS FRAMING PLAN FRAMING DETAILS	
A100 A200 A300 A400 A401 A402 A403 A500	TECTURAL FLOOR PLANS SCHEDULES, DOOR AND WINDOW EXTERIOR ELEVATIONS BUILDING SECTIONS BUILDING SECTIONS WALL SECTIONS WALL SECTIONS AND DETAILS REFLECTED CEILING PLAN ROOF PLAN	' TYPES
M201 M300		
P200 P300	ING PLUMBING GENERAL NOTES DOMESTIC WATER PLUMBING PLA GAS, CONDENSATE, SEWER & VEN PLUMBING DETAILS	
E300 E400	<u>RICAL</u> ELECTRICAL GENERAL NOTES LIGHTING PLAN POWER PLAN HVAC POWER PLAN ELECTRICAL RISER AND PANELS	



3100 N. Florida Ave. Alamogordo, New Mexico **CONSTRUCTION DOCUMENTS** 04.18.23 date 22.11 project no.

PROJECT TEAM

OWNER

CITY OF ALAMOGORDO 1376 EAST NINTH STREET ALAMOGORDO, NM 88003 CONTACT:

STRUCTURAL

ROCKY SUMMIT ENGINEERING CONSULTING, LLC. P.O. BOX 816151 **DALLAS, TX 75381** P 214.837.6062 CONTACT: FERNANDO PEÑA

ARCHITECT

STUDIO D P.O. BOX 1467 FAIRACRES, NM 88033 P 575.521.3757 F 575.521.3880 CONTACT: ABELARDO NATIVIDAD

MECHANICAL, ELECTRICAL & PLUMBING

RAXIS ENGINEERING 1712 TEXAS ST. EL PASO, TX 79901 P 915.519.4340 CONTACT: JOSE A. MORALES, P.E. CEM



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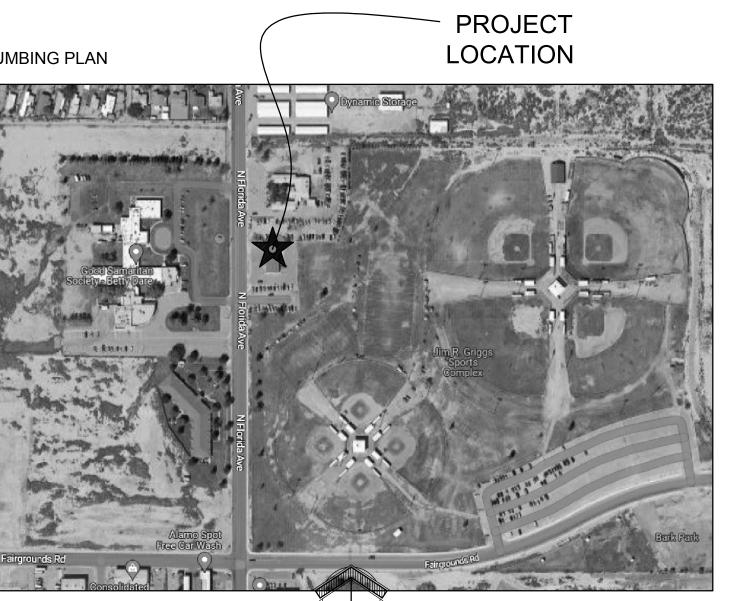
Architects



BUILDING ADDITION

Alamogordo Fire Station 6 Addition

3100 N. Florida Ave. Alamogordo, New Mexico



Project no:	
Date:	
Sheet:	

REVISION

22.11 April 2023

DATE

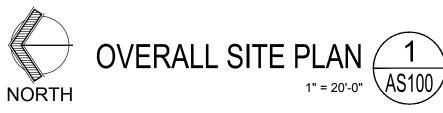
NORTH

VICINITY MAP

3. EXISTING SERVICE POLE TO BE RELOCATED, RELOCATE EXISTING COMM CABLE ABOVE. 4. EXISTING LIGHT POLE TO BE REMOVED, REMOVE OVERHEAD POWER TO NEXT ADJACENT LIGHT POLE TO REMAIN. 5. REMOVE EXISTING WOOD POST AND WIRE FENCE IN ITS ENTIRETY. 1/2 REBAF 6. EXISTING BUILDING TO REMAIN, SEE FLOOR PLANS FOR REQUIRED MODIFICATIONS. 7. EXISTING ASPHALT PAVING TO REMAIN. 8. EXISTING WALKWAY TO REMAIN. 9. GRAVEL PARKING TO REMAIN. 10. EXISTING CURBING TO REMAIN. 11. EXISTING DRAINAGE RUN-DOWN TO REMAIN. -XX -XX___ -XX --XX**BIBE** *LENCE* 108.2' NOTE: CONTRACTOR TO REMOVE (3) EXISTING TREES ADJACENT TO EXISTING BUILDING IN AREA OF CONSTRUCTION. CONTRACTOR TO REMOVE ROOT BALL TO A DEPTH OF 5'-0" MIN. ---OVERHEAD WIRES ∓,∠'†9l SPHAL -(4) 4441. \leftarrow 7 \rightarrow -4 ONCKETE $\left| \left< \right> \right| \right|$ (m).29 FF VAT 41. $\leftarrow 6 \rightarrow$ ±`Σ.∂8 MYLK⁴ P . 8 ELE/ 44 (10)---Ŏ DRIVE ←7→ 0 0 Î Î _ _ Z__ _ STEEL HATCH S00°11'31" 244.33 3 * $\leftarrow \otimes \rightarrow$ 3 \ge CSIDEWALK 'SIDEMVFK' Ô 21DEMALK CURB & APRON NOATA 3 CNKB Date: Apr 18, 2023 - 11:44am User:Station 5 Drawing File: K:\2022 Projects\2211 Alamogordo Last Saved By: Station 5 Apr 18, 2023 - 11:43am Layout Name: AS100 8 3~ AVENUE FLORIDA / HTAON

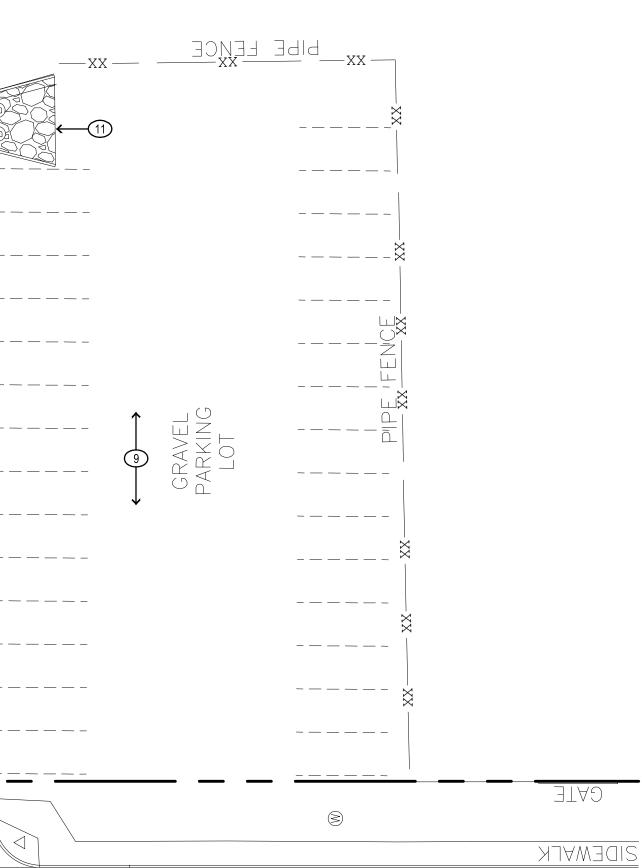
KEYED NOTES

- 1. REMOVE EXISTING CURB & GUTTER AS REQUIRED BY NEW CONSTRUCTION. 2. REMOVE EXISTING SIDEWALK AS REQUIRED BY NEW
- CONSTRUCTION.



GENERAL NOTES

- A. THE CONTRACTOR SHALL VERIFY ALL DIMENSIONS AND CONDITIONS SHOWN ON PLANS AND EXISTING SITE. THE ARCHITECT SHALL BE NOTIFIED OF CONFLICTS OR VARIATIONS PRIOR TO COMMENCEMENT OF CONSTRUCTION. THE ARCHITECT PRODUCING THESE PLANS WILL NOT BE RESPONSIBLE FOR FIELD Β.
- CHANGES AND DECISIONS UNLESS NOTIFIED IN WRITING OF CHANGES AND THEN ONLY BY WRITTEN APPROVAL BY THE ARCHITECT.
- ALL SCALE PLAN DIMENSIONS ARE TO NOMINAL FACE OF STUD OR FACE OF MASONRY C. UNLESS OTHERWISE NOTED.
- CONTRACTOR SHALL NOT SCALE DRAWINGS, IN THE EVENT OF OMISSION OF D DIMENSIONS THE CONTRACTOR SHALL NOTIFY THE ARCHITECT PRIOR TO THE COMMENCEMENT OF CONSTRUCTION, FAILURE TO DO SO WILL LEAVE THE CONTRACTOR SOLELY RESPONSIBLE FOR ANY DISCREPANCIES, CORRECTIONS, ETC., RESULTING FROM THE SAME.
- THE CONTRACTOR SHALL PROVIDE PROTECTION AS NECESSARY TO PREVENT F DAMAGE TO THE EXISTING CONSTRUCTION NOT TO BE REMOVED UNDER CONTRACT AND ANY/ALL ITEMS INDICATED TO REMAIN IN PLACE. ANY AND ALL ITEMS DAMAGED DURING CONSTRUCTION SHALL BE THE F
- RESPONSIBILITY OF THE CONTRACTOR TO REPAIR TO A LIKE NEW CONDITION AT HIS EXPENSE. G. THE CONTRACTOR SHALL CLEAN UP ALL DEBRIS CAUSED BY THE WORK OF THIS
- PROJECT AND SHALL SOLELY BE RESPONSIBLE FOR KEEPING THE PREMISES CLEAN AND NEAT AT ALL TIMES. THERE SHALL BE LITTLE IF NO INTERRUPTION TO THE ADJACENT FIRE STATION Η.
- OPERATIONS DURING THE COURSE OF CONSTRUCTION. UNAVOIDABLE INTERRUPTIONS IN SERVICES SHALL BE DISCUSSED, AGREED UPON AND SCHEDULED WITH OWNER/USER. ANY AND ALL CONFLICTS FOUND DURING CONSTRUCTION SHALL BE BROUGHT TO THE
- ATTENTION OF THE ARCHITECT IN WRITING, SO THAT ADDITIONAL INSTRUCTIONS CAN BE FORWARDED TO THE CONTRACTOR. THE CONTRACTOR SHALL NOT INSTALL ANY MATERIAL, PRODUCT, ETC, WHICH J.
- CONTAINS ASBESTOS OR OTHER TOXIC SUBSTANCES. IF ANY MATERIAL, PRODUCT, ETC. DOES CONTAIN ANY OF THE ABOVE, THE CONTRACTOR SHALL SUBMIT AN EQUAL SUBSTITUTION FOR THE OWNERS APPROVAL PRIOR TO INSTALLATION. AT THE COMPLETION OF THE PROJECT THE CONTRACTOR SHALL CERTIFY IN WRITING ON COMPANY LETTER HEAD THAT HE IS IN COMPLIANCE.
- K. IF THE CONTRACTOR SUSPECTS THE PRESENCE OF ASBESTOS CONTAINING MATERIALS, THE ARCHITECT SHALL BE NOTIFIED IMMEDIATELY. THE OWNER SHALL BE RESPONSIBLE FOR THE SAFE REMOVAL AND/OR CONTAINMENT OF ALL SUCH MATERIALS, IN ACCORDANCE WITH THE APPLICABLE LAW. ADJUSTMENT TO THE CONSTRUCTION SCHEDULE WILL BE CONSIDERED IF ABATEMENT IS REQUIRED. ANY ASBESTOS REMOVAL WORK SHALL BE COORDINATED BY THE GENERAL CONTRACTOR. THE ARCHITECT ASSUMES NO RESPONSIBILITY FOR THE DETECTION, PRESENCE OR REMOVAL OF ASBESTOS CONTAINING MATERIALS.
- THE CONTRACTOR SHALL PROVIDE ALL BARRICADES, FENCES, COVERED WALKS, PLANKING, FENCES LIGHTING, BRACING, SHORING, WARNING SIGNS, GUARDS, ETC. AS REQUIRED FOR PROTECTION OF WORKMEN, THE PUBLIC, BUILDING OCCUPANTS AND ADJOINING PROPERTIES.



CURB & APRON



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BUILDING ADDITION

Alamogordo Fire Station 6 Addition

3100 N. Florida Ave. Alamogordo, New Mexico

REVISION

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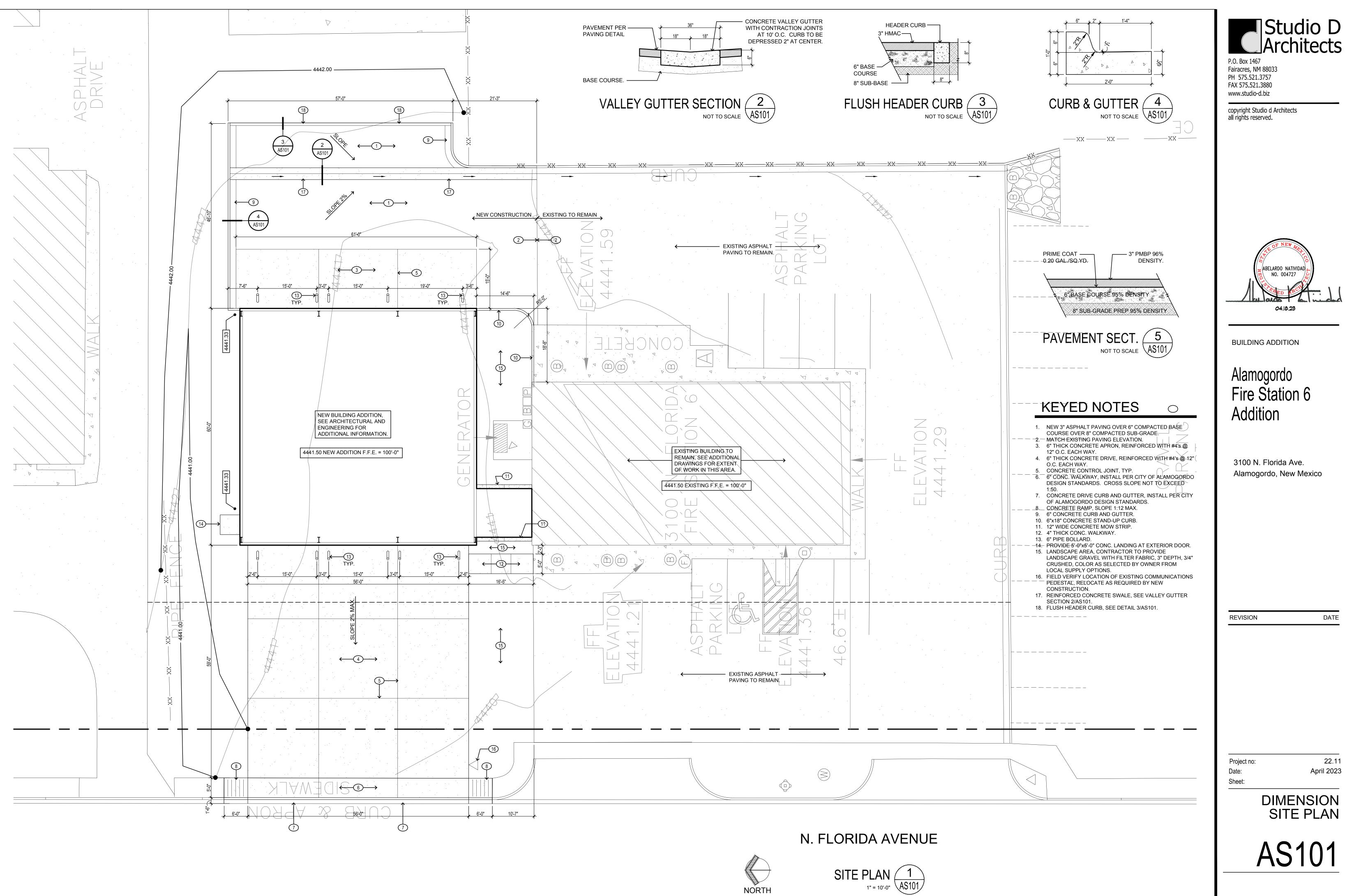
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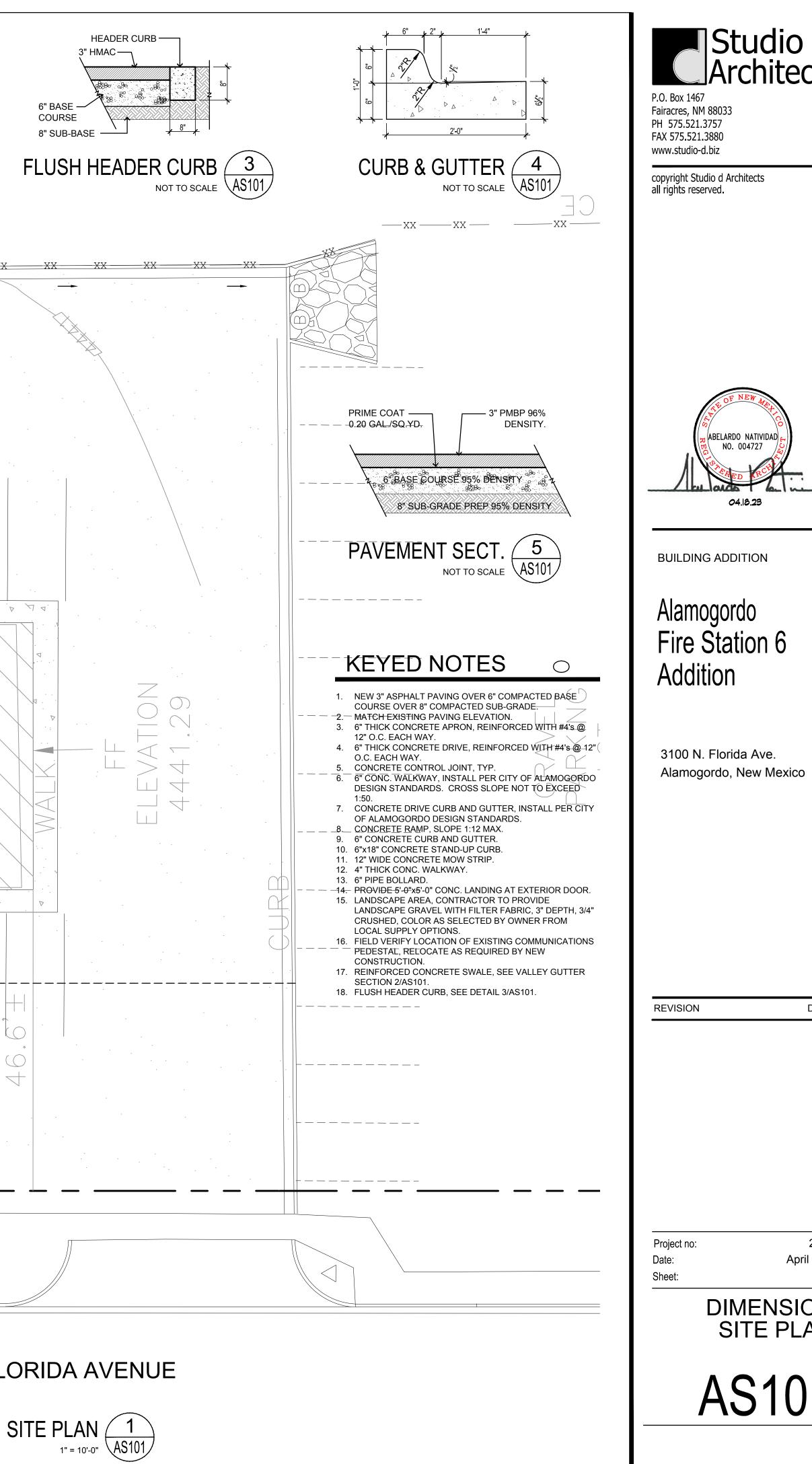












<u>STRUCTURAL GENERAL NOTES</u>

<u>GENERAL REQUIREMENTS:</u>

1. STRUCTURAL DRAWINGS SHALL BE USED IN CONJUNCTION WITH THE SPECIFICATIONS AND OTHER PROJECT DRAWINGS BY OTHER DISCIPLINES. ALL WORK SHALL CONFORM TO THE REQUIREMENTS OF THE CODES LISTED BELOW. 2. CONTRACTOR SHALL VERIFY ALL DIMENSIONS AND ELEVATIONS RELATING TO EXISTING CONDITIONS BY MAKING FIELD SURVEYS AND MEASUREMENTS PRIOR TO COMMENCING FABRICATION OR CONSTRUCTION. 3. THE GENERAL CONTRACTOR SHALL COMPARE AND COORDINATE THE DRAWINGS OF ALL DISCIPLINES AND REPORT ANY

DISCREPANCIES BETWEEN THE DRAWINGS TO THE ARCHITECT AND ENGINEER. 4. DETAILS LABELED "TYPICAL" SHALL APPLY TO ALL SITUATIONS THAT ARE THE SAME OR SIMILAR TO THOSE SPECIFICALLY

DETAILED. SEE DETAIL TITLES FOR APPLICABILITY OF A PARTICULAR DETAIL. TYPICAL DETAILS SHALL APPLY WHETHER OR NOT THEY ARE SPECIFICALLY KEYED AT EACH LOCATION. THE ENGINEER SHALL HAVE FINAL AUTHORITY TO DETERMINE APPLICABILITY OF TYPICAL DETAILS.

5. WHERE CONFLICTS EXIST BETWEEN STRUCTURAL DOCUMENTS THE STRICTEST REQUIREMENTS, AS INDICATED BY THE STRUCTURAL ENGINEER SHALL GOVERN.

6. THE GENERAL CONTRACTOR SHALL REVIEW AND DETERMINE THAT DIMENSIONS ARE COORDINATED BETWEEN ARCHITECTURAL AND STRUCTURAL DRAWINGS PRIOR TO FABRICATION OR START OF CONSTRUCTION.

7. NO STRUCTURAL MEMBER SHALL BE CUT OR NOTCHED OR OTHERWISE REDUCED IN STRENGTH UNLESS APPROVED BY THE STRUCTURAL ENGINEER.

8. THE GENERAL CONTRACTOR SHALL COORDINATE ARCHITECTURAL, MECHANICAL, ELECTRICAL AND PLUMBING DRAWINGS FOR ANCHORED, EMBEDDED OR SUPPORTED ITEMS. NOTIFY THE ARCHITECT / ENGINEER OF ANY DISCREPANCIES.

<u>SPECIAL INSPECTIONS:</u>

1. NO SPECIAL INSPECTION IS REQUIRED, VERIFY WITH CITY OF ALAMOGORDO FOR SPECIAL INSPECTION REQUIREMENTS.

CONSTRUCTION RESPONSIBILITY:

1. THE CONTRACT STRUCTURAL DRAWINGS AND SPECIFICATIONS REPRESENT THE COMPLETED STRUCTURE, AND ARE NOT INTENDED TO INDICATE THE METHOD OR MEANS OF CONSTRUCTION. THE CONTRACTOR SHALL SUPERVISE AND DIRECT THE WORK AND SHALL BE

SOLELY RESPONSIBLE FOR ALL CONSTRUCTION MEANS, METHODS, PROCEDURES, TECHNIQUES, SEQUENCES, AND FOR JOB SAFETY. 2. THE ENGINEER DOES NOT HAVE CONTROL OR CHARGE OF, AND SHALL NOT BE RESPONSIBLE FOR, CONSTRUCTION MEANS, METHODS, TECHNIQUES, SEQUENCES, OR PROCEDURES, FOR SAFETY PRECAUTIONS AND PROGRAMS IN CONNECTION WITH THE WORK, FOR THE ACTS OR OMISSIONS OF THE CONTRACTOR, SUBCONTRACTOR, OR ANY OTHER PERSONS PERFORMING ANY OF THE WORK, OR FOR THE FAILURE OF ANY OF THEM TO CARRY OUT THE WORK IN ACCORDANCE WITH THE CONTRACT DOCUMENTS. 3. PERIODIC SITE OBSERVATION VISITS MAY BE PROVIDED BY THE STRUCTURAL ENGINEER. THE SOLE PURPOSE OF THESE OBSERVATIONS IS TO REVIEW THE GENERAL CONFORMANCE OF THE CONSTRUCTION WITH THE STRUCTURAL CONTRACT DOCUMENTS. THESE LIMITED OBSERVATIONS SHOULD NOT BE CONSTRUED AS CONTINUOUS OR EXHAUSTIVE TO VERIFY THAT ALL CONSTRUCTION IS IN COMPLIANCE WITH THE CONSTRUCTION DOCUMENTS. THE GENERAL CONTRACTOR SHALL BE RESPONSIBLE FOR PERFORMING ALL WORK IN COMPLIANCE WITH THE CONSTRUCTION DOCUMENTS.

PRIMARY CODES AND SPECIFICATIONS:

1. General Building Code:

A. INTERNATIONAL BUILDING CODE, 2015

2. CONCRETE CODES:

BUILDING CODE REQUIREMENTS FOR STRUCTURAL CONCRETE (ACI 318-14).

SPECIFICATIONS FOR STRUCTURAL CONCRETE FOR BUILDINGS (ACI 301).

LATEST EDITION OF THE CRSI MANUAL OF STANDARD PRACTICE WITH ALL SUPPLEMENTS.

3. STRUCTURAL STEEL CODES:

A. SPECIFICATION FOR STRUCTURAL STEEL BUILDINGS, (AISC 360-10).

4. STEEL DECK:

NORTH AMERICAN SPECIFICATION FOR THE DESIGN OF COLD FORMED STEEL STRUCTURAL MEMBERS, B. SDI DESIGN MANUAL FOR COMPOSITE DECKS, FORM DECKS AND ROOF DECKS.

5. COLD FORMED METAL FRAMING:

A. NORTH AMERICAN SPECIFICATION FOR THE DESIGN OF COLD FORMED STEEL STRUCTURAL MEMBERS 6. WOOD CONSTRUCTION:

A. NATIONAL DESIGN SPECIFICATION FOR WOOD CONSTRUCTION (NDS-2015).

<u>DESIGN LOADS:</u>

1. ROO	OF LIVE LOADS:
A .	UNIFORMLY DISTRIBUTED LIVE LOAD ON HORIZONTAL PROJECTION
2. SM	OW LOADS:
A .	UNIFORMLY DISTRIBUTED
3. FL(DOR LIVE LOADS:
A .	UNIFORMLY DISTRIBUTED LIVE LOADS:
DETA	

RETAIL STORES FIRST FLOOR...... 100 PSF

4. WIND LOADS:

A. LOADS BASED ON ASCE 7-10 WIND LOAD CRITERIA. BUILDING CATEGORY TYPE III

BASIC WIND SPEED. UL TIMATE 3 SECOND GUST....... 115 MPH

WIND EXPOSURE CATEGORY...... C

5. seismic:

SDS...... 0.326

R...... 3.25 (STEEL ORDINARY CONCENTRICALLY BRACED FRAMES)

IE..... 1.25 SITE CLASS......D

V= (0.125 X W) = (0.125 X 66,631) = 8,328 LB

1. THE GEOTECHNICAL INVESTIGATION FOR THE PROJECT WAS PERFORMED BY TERRACON. THE REPORT IS A PART OF THE CONTRACT SPECIFICATIONS. ITS RECOMMENDATIONS SHALL BE FOLLOWED FOR CONSTRUCTION OF THIS PROJECT.

2. ALL VEGETATION, ASPHALT PAVEMENT, DEBRIS AND OTHER DELETERIOUS MATERIAL SHALL BE REMOVED FROM THROUGHOUT THE ENTIRE BUILDING AREA AND ANY OTHER AREAS OF THE SITE TO RECEIVE FILL. TREE STUMPS AND MATTED ROOTS LARGER THAN 2 INCHES IN DIAMETER SHALL BE REMOVED FROM WITHIN 6 INCHES OF THE SURFACE OF AREAS TO RECEIVE FILL OR WITHIN 18 INCHES OF SUBGRADE IN ROADWAYS OR PARKING AREAS.

3. ALL FOOTINGS SHALL BE SUPPORTED ON 2'-O" OF STRUCTURAL FILL STRUCTURAL FILL SHALL EXTEND 2'-O" BEYOND THE EDGES OF FOOTINGS. 4. FLOOR SLABS SHALL BE OVEREXCAVATED TO A POINT 2'-O" BELOW THE BOTTOM OF THE SLAB AND BACKFILLED WITH STRUCTURAL FILL. 5. ALL STRUCTURAL FILL SHALL BE SPREAD IN LAYERS NOT EXCEEDING 8 INCHES, WATERED AS NECESSARY AND COMPACTED. THE MOISTURE CONTENT AT THE TIME OF COMPACTION SHALL BE WITHIN TWO PERCENT OF OPTIMUM. A DENSITY OF NOT LESS THAN 95 PERCENT OF MAXIMUM DRY DENSITY WITHIN THE BUILDING PAD SHALL BE OBTAINED FOR THE NATIVE SOILS AND STRUCTURAL FILL.

6. THE OPTIMUM MOISTURE CONTENT AND MAXIMUM DENSITY OF THE NATIVE SOILS AND STRUCTURAL FILL, FOR EACH SOIL TYPE USED, SHALL BE DETERMINED IN ACCORDANCE WITH "ASTM D-1557".

7. THE STRUCTURAL FILL MATERIAL SHALL CONSIST OF SOILS THAT MEET THE FOLLOWING GRADATION REQUIREMENTS: PERFENT PASSING PER WEIGHT SIEVE SIZE (SQUARE OPENINGS)

<u>55/</u>	<u>PERCENT PASSING PER WEIGHT</u>
·	100
	70-100
	50-100
	LESS THAN 50

THE PLASTICITY INDEX OF THE STRUCTURAL FILL SHALL BE LESS THAN 15 AND THE LIQUID LIMIT SHALL BE LESS THAN 30. THE MAXIMUM EXPANSIVE POTENTIAL SHALL BE 1.5% WHEN MEASURED ON A SAMPLE COMPACTED TO 95% OF THE ASTM D-1557 MAXIMUM DRY DENSITY AT ABOUT 3% BELOW OPTIMUM WATER CONTENT AND CONFINED UNDER A 100 PSF SURCHARGE AND SUBMEGED. THE RESULTS OF THE INVESTIGATION INDICATE THAT THE NATIVE SOILS WILL NOT MEET THE ABOVE REQUIREMENTS AND IMPORTED FILL WILL BE REQUIRED. 8. PRIOR TO PLACEMENT OF STRUCTURAL FILL, THE BUILDING AREA SHALL BE OBSERVED BY A REPRESENTATIVE OF SMITH ENGINERRING CO. TO

ENSURE SATISFACTORY REMOVAL OF NATIVE SOILS AND THE REMOVAL OF ANY EXISTING UNCONTROLLED FILL. THE EXPOSED CUT SURFACE, AS WELL AS ANY OTHER SURFACES TO RECEIVE FILL, SHALL BE SCARIFIED TO A MINIMUM DEPTH OF 8 INCHES, MOISTURE CONDITIONED, INCLUDING AIR DRYING IF REQUIRED, AND PROPERLY COMPACTED.

<u>CAST-IN-PLACE CONCRETE:</u>

6 INCH

3 INCH

NO. 200

NO. 4

1. THE LATEST EDITION OF THE FOLLOWING ACI STANDARDS APPLY:

ACI 318 (CODE) ACI 304 (PLACING)

ACI 306 (WINTER CONCRETING) ACI 315 (DETAILING)

ACI 305 (HOT WEATHER CONCRETING) ACI 347 (FORMWORK)

ACI 211.1 (MIX PROPORTIONING) ACI 301 (SPECIFICATIONS)

2. ALL CONCRETE SHALL BE NORMAL WEIGHT (148 PCF DRY DENSITY, MIN), WITH MIXES DESIGNED TO MEET A MINUMUM OF 3000 PSI 28-DAY COMPRESSIVE STRENGTH UNLESS OTHERWISE NOTED.

3. A CONCRETE MIX DESIGN FOR EACH UNIQUE COMBINATION OF STRENGTH, COARSE AGGREGATE GRADATION AND WATER CEMENT RATIO SPECIFIED SHALL BE PREPARED BY THE SUPPLIER OR AN INDEPENDENT TESTING LABORATORY AND BE SUBMITTED FOR REVIEW PRIOR TO CASTING ANY CONCRETE. MIXES THAT WILL BE TRANSPORTED AT THE PROJECT SITE BY PUMPING SHALL BE SPECIFICALLY DESIGNED FOR PUMPING.

<u>REINFORCING STEEL:</u>

1. REINFORCING STEEL: ASTM A 615, GRADE 60.

3. MINIMUM REINFORCING STEEL CLEAR COVER (U.N.O.):

A. CONCRETE CAST DIRECTLY AGAINST EARTH .. 3"

B. INTERIOR SLABS 1"

C. INTERIOR BEAMS 1-1/2" TO TIES D. SLABS ON GRADE 1-1/2" FROM TOP

4. WHERE REINFORCING BARS ARE NOTED AS CONTINUOUS, THE FOLLOWING SHALL BE COMPLIED WITH:

A. THE TERMINATION OF ALL CONTINUOUS REINFORCING BAR RUNS SHALL BE A STANDARD HOOK UNLESS NOTED OTHERWISE. B. SPLICES IN CONTINUOUS TOP BARS, IF REQUIRED, SHALL OCCUR OVER PARALLEL CMU WALLS OR AT THE CENTER OF THE

C. SPLICES IN CONTINUOUS BOTTOM BARS. IF REQUIRED, SHALL OCCUR OVER CMU WALLS OR CENTERED OVER COLUMNS. 5. WHERE SPLICE LENGTHS ARE NOT SPECIFIED, USE 48 BAR DIAMETERS IN MASONRY AND 40 BAR DIAMETERS IN CAST Concrete.

6. REINFORCING STEEL SHALL NOT BE TACK WELDED FOR ANY REASON. WELDED REINFORCING STEEL SPLICES ARE NOT PERMITTED

CONCRETE MASONRY:

1. SEE NOTES ON PRIMARY CODES AND SPECIFICATIONS.

2. CONCRETE MASONRY UNITS SHALL BE LOAD BEARING TYPE CONFORMING TO ASTM C-90 HAVING A MINIMUM COMPRESSIVE STRENGTH OF 1900 PSI (NET AREA).

3. MORTAR SHALL CONFORM TO ASTM C-270 TYPE S.

4. PLAIN END TWO CELLED UNITS SHALL BE USED FOR BLOCKS THAT ARE TO HAVE CELLS REINFORCED AND FILLED. WEB SHELLS ADJACENT TO CELLS THAT ARE TO BE FILLED ARE TO BE BEDDED IN MORTAR.

5. FILL CELLS AS NOTED ON DRAWINGS WITH 3000 PSI GROUT, OR GROUT CONFORMING TO ASTM C-476, SPECIFICALLY DESIGNED FOR FILLING OF CELLS.

6. IN SPLICING VERTICAL BARS, LAP ENDS, PLACE IN CONTACT AND WIRE-TIE TOGETHER OR USE BAR POSITIONERS. LAP BARS SIDE BY SIDE IN THE PLANE OF THE WALL TO MAINTAIN PROPER COVER.

7. SEE PRIMARY CODES, SPECIFICATIONS AND DRAWINGS FOR GROUTING PROCEDURES.

8. INSTALLATION OF CONCRETE MASONRY SHALL BE COMPATIBLE WITH ALL APPLIED FINISHES SUCH AS STUCCO OR PAINT. DO NOT SPONGE WALLS WITHOUT PROPER CLEANING COMPATIBLE WITH FINISHES.

9. PROVIDE GALVANIZED WIRE TYPE HORIZONTAL JOINT REINFORCING AT 16" O.C. (MAX) AND AS INDICATED ON ARCHITECTURAL DRAWINGS. PROVIDE HOT DIP GALVANIZED HJR ON ALL EXTERIOR WALLS. IN ADDITION TO SCHEDULED OR DETAILED LINTEL AND SILL REINFORCING, PROVIDE TWO LAYERS OF HJR AT 8 INCHES ON CENTER ABOVE AND BELOW ALL LINTELS AND SILLS WHICH SPAN MORE THAN 12 INCHES. EXTEND ADDED HJR 24 INCHES BEYOND THE OPENING JAMBS EXCEPT AT WCJ.

10. MASONRY BOND BEAMS AND CONCRETE TIE BEAMS CAST ON MASONRY WALLS SHALL BE CONSTRUCTED SO AS TO KEY AND BOND INTO BLOCK CELLS. THE USE OF BUILDING PAPER OR SHEET PLASTIC TO CLOSE VOIDS BELOW BEAMS IS NOT ALLOWED DUE TO BREAKAGE OF MORTAR BOND.

11. SEE ARCHITECT'S DRAWINGS FOR THE EXTENT AND EXACT LOCATION OF MASONRY WALLS.

12. WALL CONTROL JOINTS (WCJ): A. WALL CONTROL JOINTS SHALL BE PROVIDED IN ALL CONCRETE MASONRY CONSTRUCTION AT LOCATIONS INDICATED ON THE STRUCTURAL OR ARCHITECTURAL DRAWINGS BUT UNLESS NOTED OTHERWISE AT A SPACING NOT GREATER THAN 24' O.C.

B. HORIZONTAL JOINT REINFORCING SHALL BE INTERRUPTED EACH SIDE OF WALL CONTROL JOINTS. C. WALL CONTROL JOINTS SHALL NOT BE PLACED OVER OPENINGS OR WITHIN AN OPENING JAMB WIDTH. SEE PLANS AND/OR JAMB REINFORCING SCHEDULE FOR MINIMUM JAMB WIDTHS.

D. SEE ARCHITECTURAL DRAWINGS FOR SEALANT REQUIREMENTS AT WALL CONTROL JOINTS.

SEE THESE DRAWINGS FOR ADDITIONAL REQUIREMENTS.

13. MASONRY WALLS SHALL BE BRACED EITHER BY OTHER INTERSECTING WALLS OR BY ANCHORAGE OR BRACING TO THE STRUCTURE ABOVE, OR TO ADJACENT WALLS, AS DETAILED ON THE STRUCTURAL DRAWINGS.

14. BLOCK LINTELS SHALL BE SPECIALLY FORMED U-SHAPED LINTEL OR LOW WEB LINTEL UNITS WITH REINFORCING BARS, OR PRECAST UNITS DESIGNED FOR THE WEIGHT OF MASONRY ABOVE AND OTHER APPLIED LOADS. STEEL THE USE OF STEEL LINTELS IS ACCEPTABLE, USE MANUFACTURER'S LOAD TABLES FOR SELECTION.

15. ALL MASONRY WALLS SHOWN ON THE STRUCTURAL DRAWINGS HAVE BEEN DESIGNED TO RESIST CONFIGURATION ONLY. IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO ADEQUATELY BRACE THE WALLS FOR VERTICAL AND LATERAL LOADS THAT COULD POSSIBLY BE APPLIED PRIOR TO COMPLETION OF LATERAL SUPPORT BY CONNECTIONS AT FLOORS OR ROOF FRAMING LEVELS.

<u>STRUCTURAL STEEL:</u>
1. SEE NOTES ON PRIMARY CODES AND SPEC
2. MATERIALS:
W-SHAPES & WT-SHAPES
S-SHAPES, M-SHAPES, HP-SHAPES
ST-SHAPES & MT-SHAPES
C-SHAPES & MC-SHAPES
ANGLES & PLATES
HSS SHAPES ASTI
STEEL PIPE ASTM A53 (T
HIGH STRENGTH BOLTS
MACHINE BOLTS AS
ANCHOR RODSASTM F1554
WELDED HEADED STUDS
DEFORMED BAR ANCHORS
WELDING ELECTRODES
3. WHERE SPECIFIED, NON-SHRINK, NON-MET
PLATES AND SHALL CONFORM TO CORPS OF

..... ASTM A992 ASTM A36 ASTN A36 ASTM A36 ASTM A36 MA500, GRADE B TYPE E OR S), GRADE B ASTM A325 STM A307 54, GRADE 55 TYPE S1(UNO) .. ASTM A 108 ASTM A496 AWS D1.1, E70 SERIES ETALLIC GROUT WITH A 28 DAY STRENGTH OF 5000 PSI SHALL BE USED UNDER BASE PLATES AND SHALL CONFORM TO CORPS OF ENGINEERS CRD-C621, FACTORY PREMIX GROUT. SEE SPECIFICATIONS FOR TESTING REQUIREMENTS. 4. ENGINEER SHALL BE CONTACTED FOR APPROVAL OF ANY FIELD MODIFICATIONS OF ANCHOR BOLTS OR RODS AND COLUMN BASE PLATES (PER OSHA).

5. TEMPORARY BRACING OF STRUCTURAL STEEL ELEMENTS IS THE RESPONSIBILITY OF THE CONTRACTOR. STRUCTURAL STABILITY SHALL BE MAINTAINED AT ALL TIMES DURING THE ERECTION PROCESS. 6. PROVIDE ONE SHOP COAT OF PRIMER (TT-P-636) ON ALL STEEL EXCEPT FOR ITEMS TO BE HOT DIPPED GALVANIZED OR SPRAY FIREPROOFED. DO NOT PAINT PORTIONS EMBEDDED IN CONCRETE. 7. FRAMING CONNECTIONS NOT DETAILED, OR CONNECTIONS THAT ARE MODIFIED FROM THOSE DETAILED, SHALL BE DESIGNED BY SUPPLIER FOR THE END REACTION SHOWN ON THE PLAN. IF NO REACTION IS PROVIDED, DESIGN FOR 1/2 THE BEAM MAXIMUM UNIFORM LOAD PER AISC MANUAL FOR STEEL CONSTRUCTION. SUBMIT SIGNED AND SEALED CALCULATIONS. 8. ALL WELD OPERATORS SHALL BE CURRENTLY AWS QUALIFIED. 9. SHOP CONNECTIONS SHALL BE WELDED OR HIGH STRENGTH BOLTED. USE 3/16" FILLET WELD MINIMUM. 10. FIELD CONNECTIONS SHALL BE WELDED OR HIGH STRENGTH BOLTED AS DETAILED. NO FIELD WELDING OF HOT DIPPED GALVANIZED MEMBERS WILL BE ALLOWED. USE 3/16" FILLET WELD MINIMUM. 11. STEEL JOISTS SHALL COMPLY WITH STEEL JOIST INSTITUTE STANDARD SPECIFICATIONS, LOAD TABLES AND WEIGHT TABLES FOR STEEL JOISTS AND JOIST GIRDERS LATEST EDITION.

<u>STEEL ROOF DECK:</u>

THE OPENING IS NEEDED (PER OSHA). SUPPORTS.

A. EDGE SUPPORTS 36/7 B. INTERMEDIATE SUPPORTS 36/4 C. LAP 🙆 12" O.C.

COLD FORMED METAL FRAMING:

1. SEE NOTES ON PRIMARY CODES AND SPECIFICATIONS. DESIGNATION G60.

CIFICA TIONS.

- 1. ROOF DECK SHALL BE 1-1/2" DEEP. SEE PLAN FOR GAGE AND PROFILE DESIGNATION.
- 2. ROOF DECK SHALL BE PLACED SO AS TO COVER AT LEAST TWO SPANS. NO SINGLE SPAN CONDITIONS SHALL BE USED. 3. ROOF DECK SHALL BE FABRICATED SO THAT DECK RUNS CONTINUOUSLY OVER OPENINGS. THE OPENINGS IN THE DECK SHALL NOT BE CUT UNTIL
- 4. STEEL DECK SHALL BE GALVANIZED WITH A PROTECTIVE ZINC COATING CONFORMING TO ASTM A924, WITH COATING DESIGNATION G90. 5. PROVIDE A MINIMUM END BEARING OF 2" OVER SUPPORTS. END LAPS OF SHEETS SHALL BE A MINIMUM OF TWO INCHES AND SHALL OCCUR OVER
- 6. ALL ROOF DECKS SHALL BE FASTENED WITH AND APPROVED SELF DRILLING OR POWER DRIVEN SCREWS ON THE FOLLOWING PATTERN:

2. ALL MEMBERS SHALL BE FORMED FROM HOT-DIPPED GALVANIZED STEEL, RED OXIDE COATED IS ACCEPTABLE, CORRESPONDING TO THE REQUIREMENTS OF ASTM A653 SQ GRADE 50 (FY = 50,000 PSI). GALVANIZED COATING SHALL CONFORM TO ASTM A924 WITH COATING



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Alamogordo Fire Station 6 Addition

3100 N. Florida Ave. Alamogordo, New Mexico

REVISION

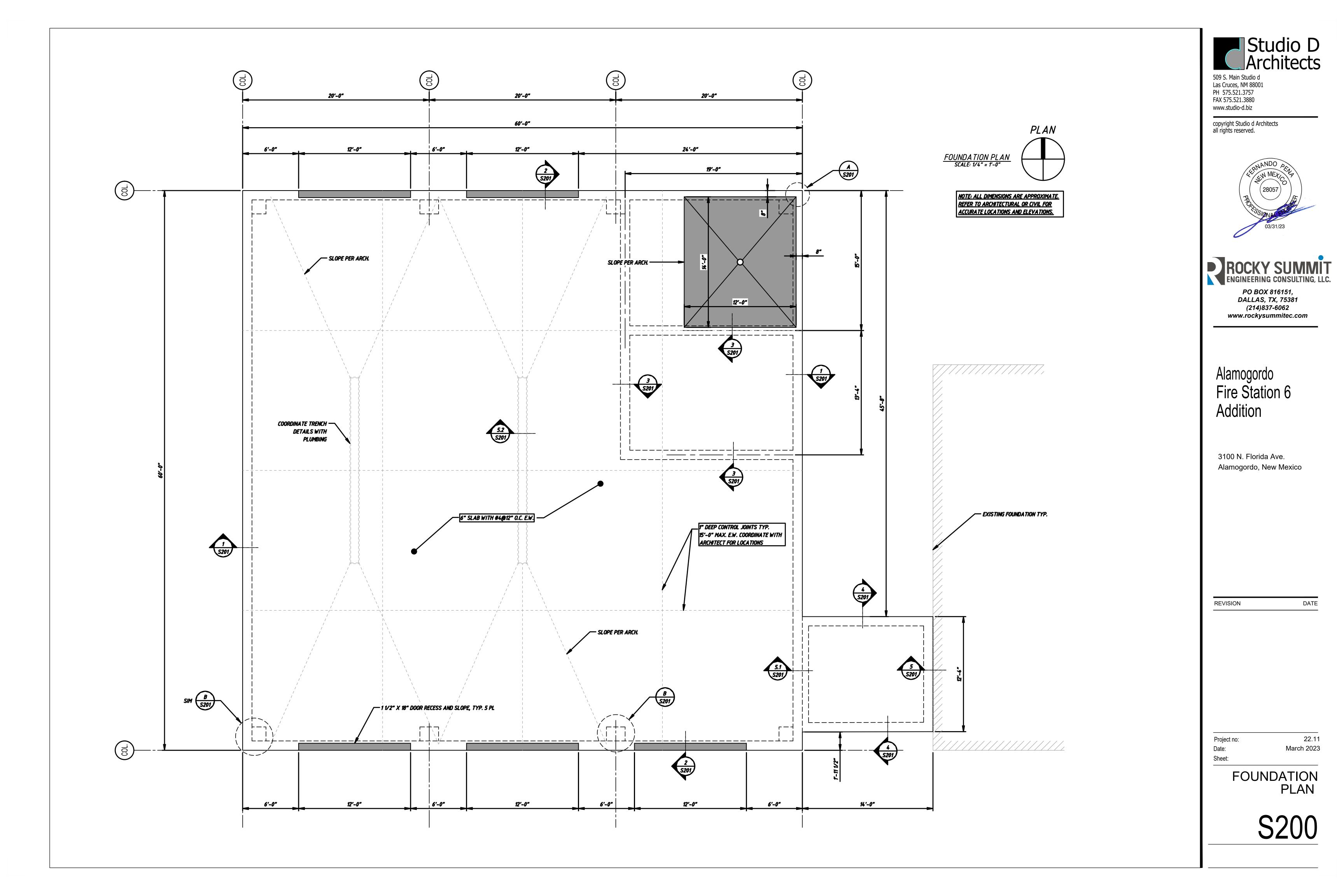
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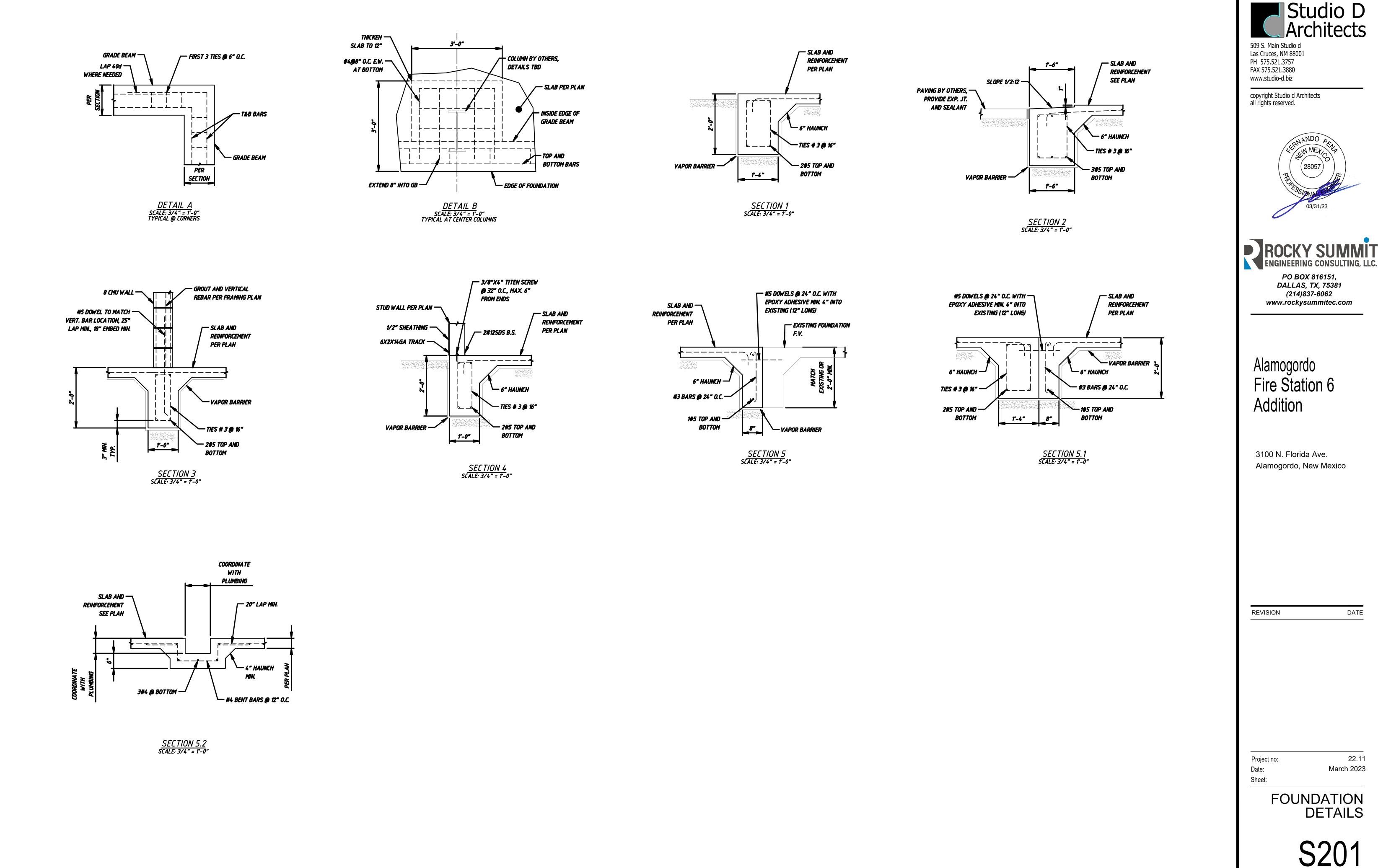
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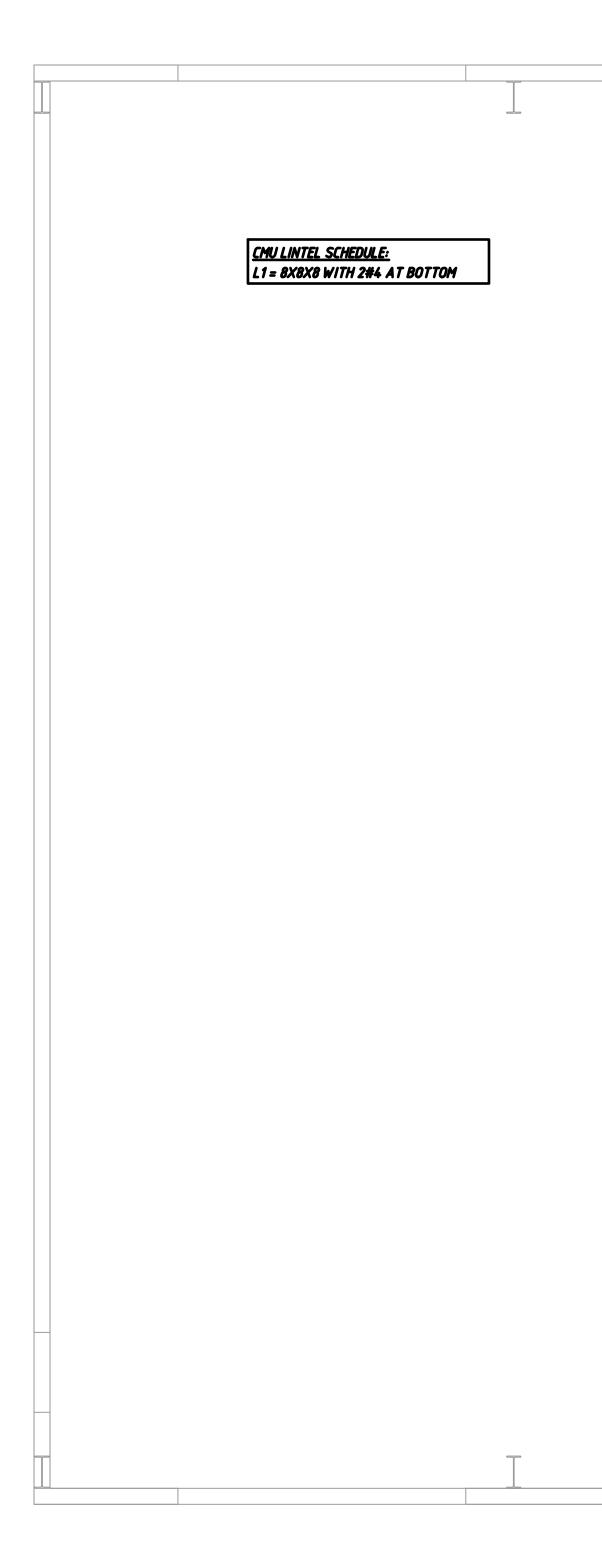
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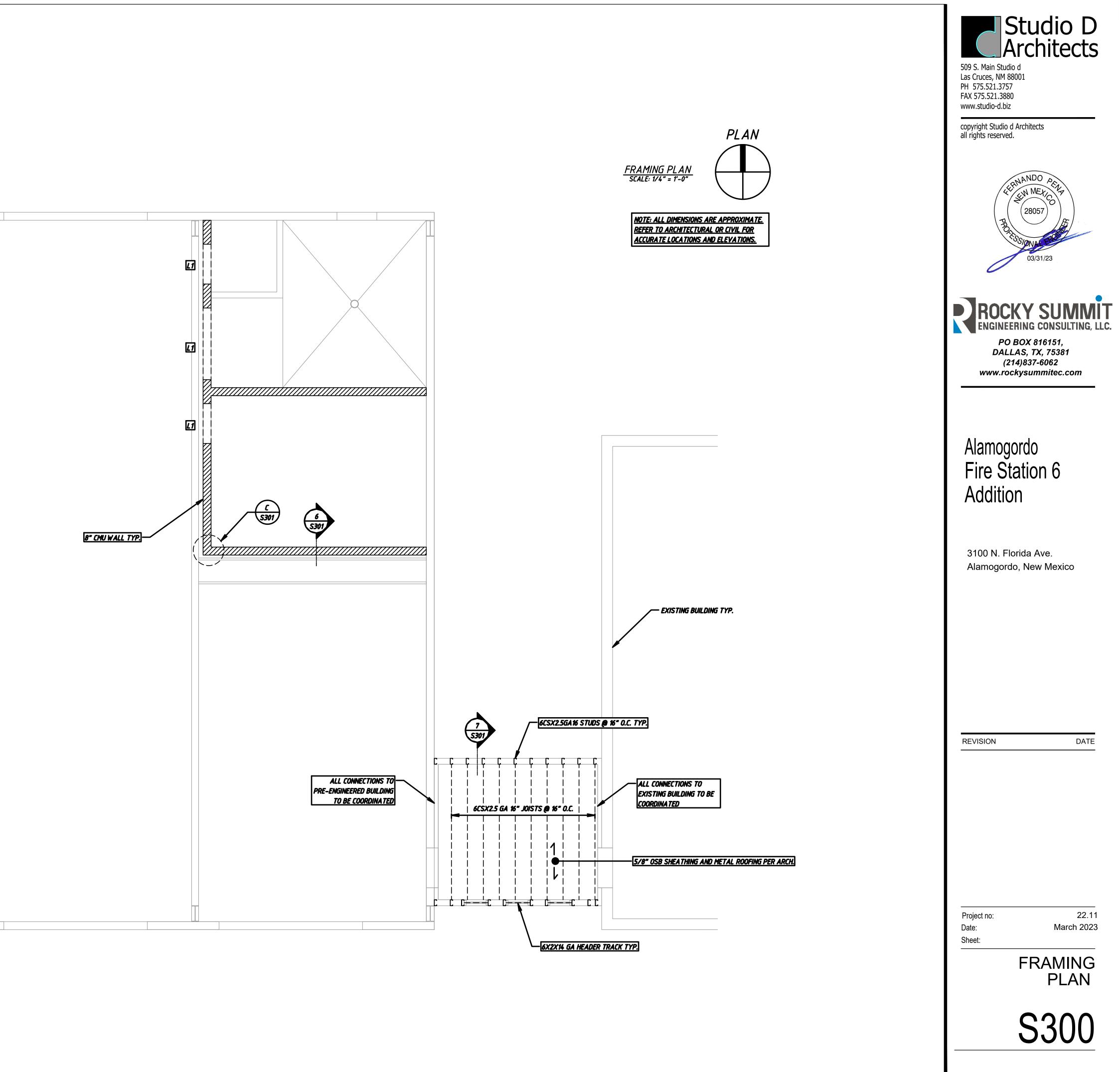
GENERAL NOTES



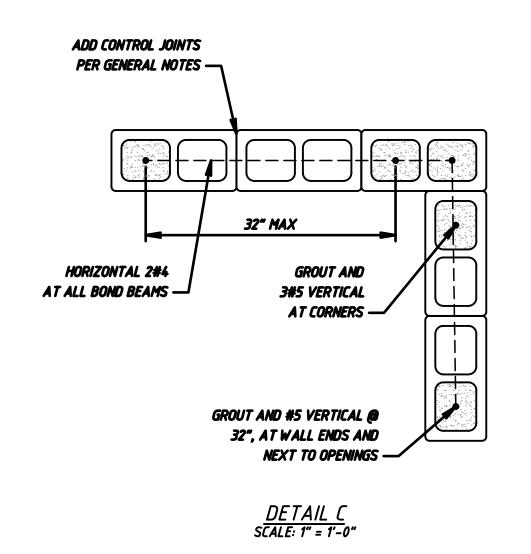






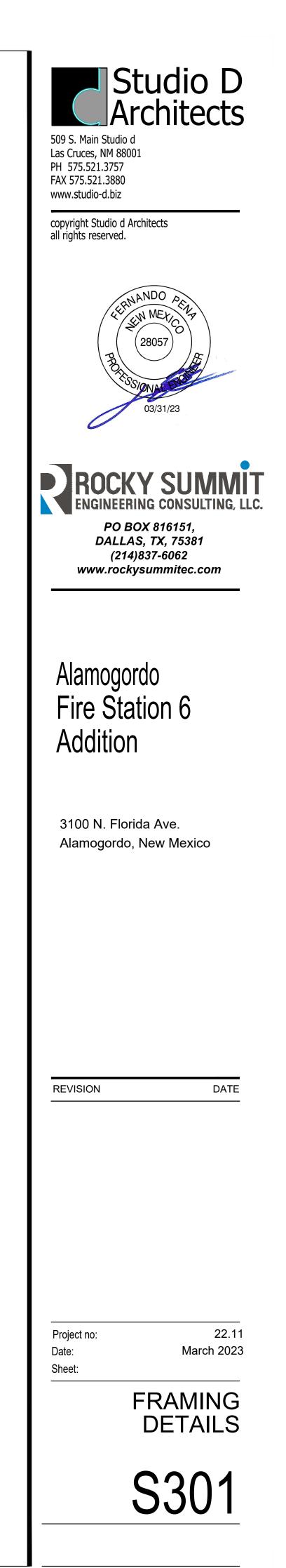


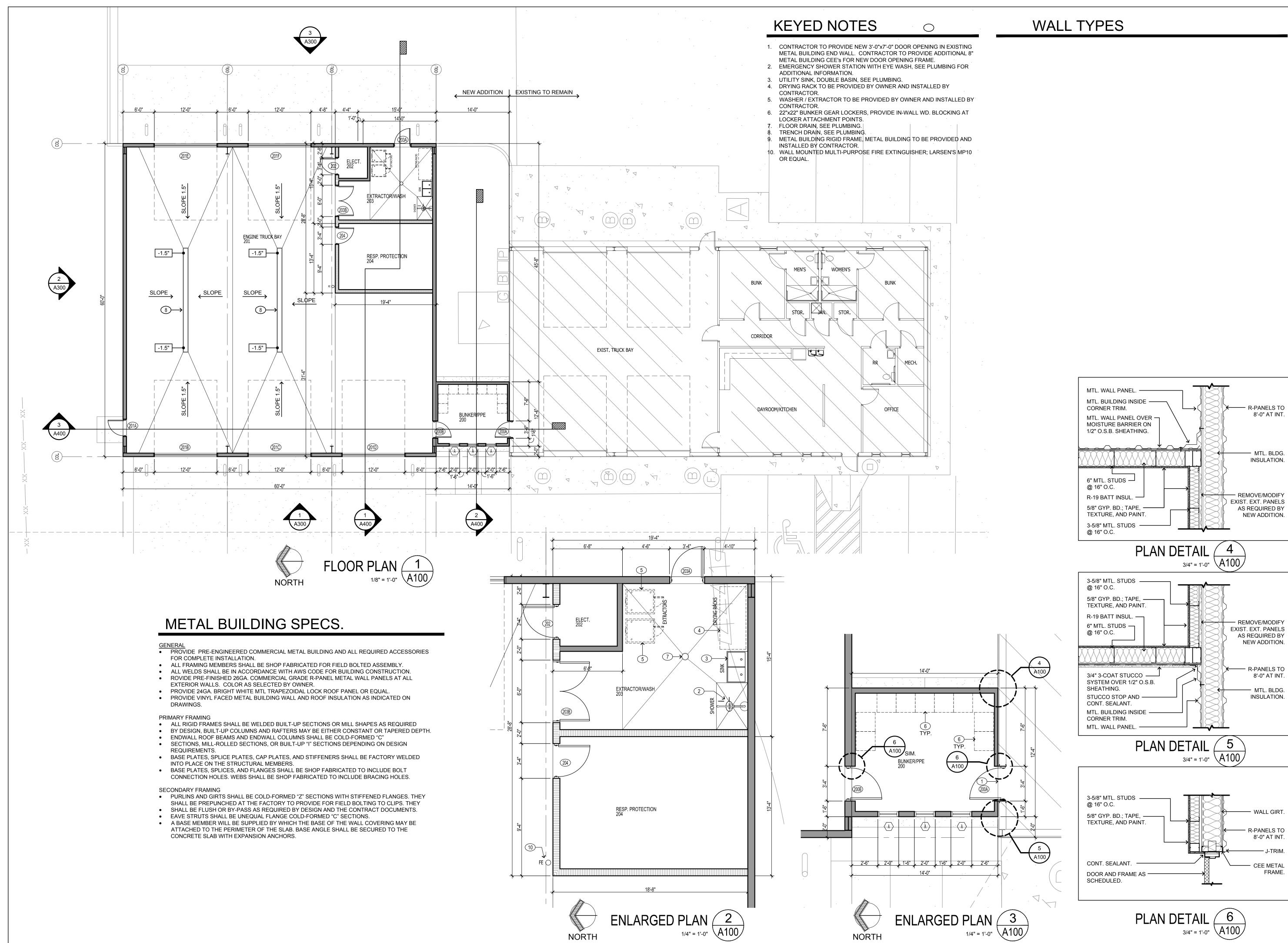
1/2X4 HILTI KWIK BOLT 🙆 16" O.C. — 📉





<u>SECTION 6</u> scale: 3/4" = 1'-0"







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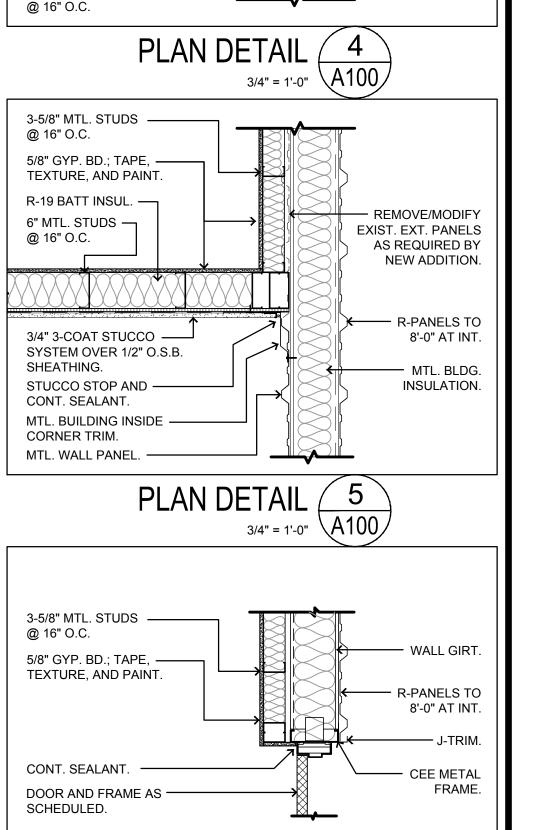


BUILDING ADDITION

Alamogordo Fire Station 6 Addition

3100 N. Florida Ave. Alamogordo, New Mexico

REVISION



22.11 Project no: April 2023 Date: Sheet:





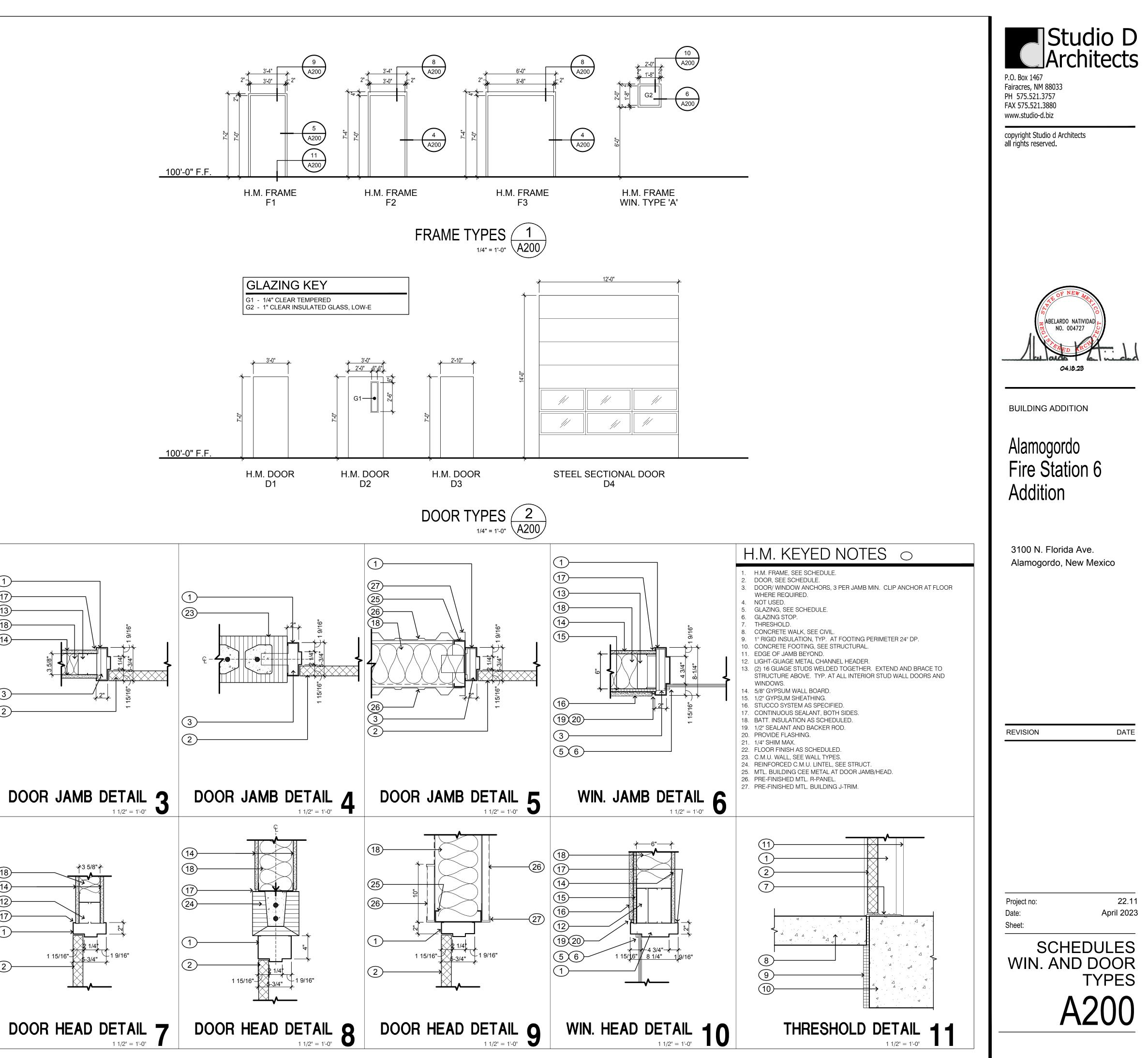
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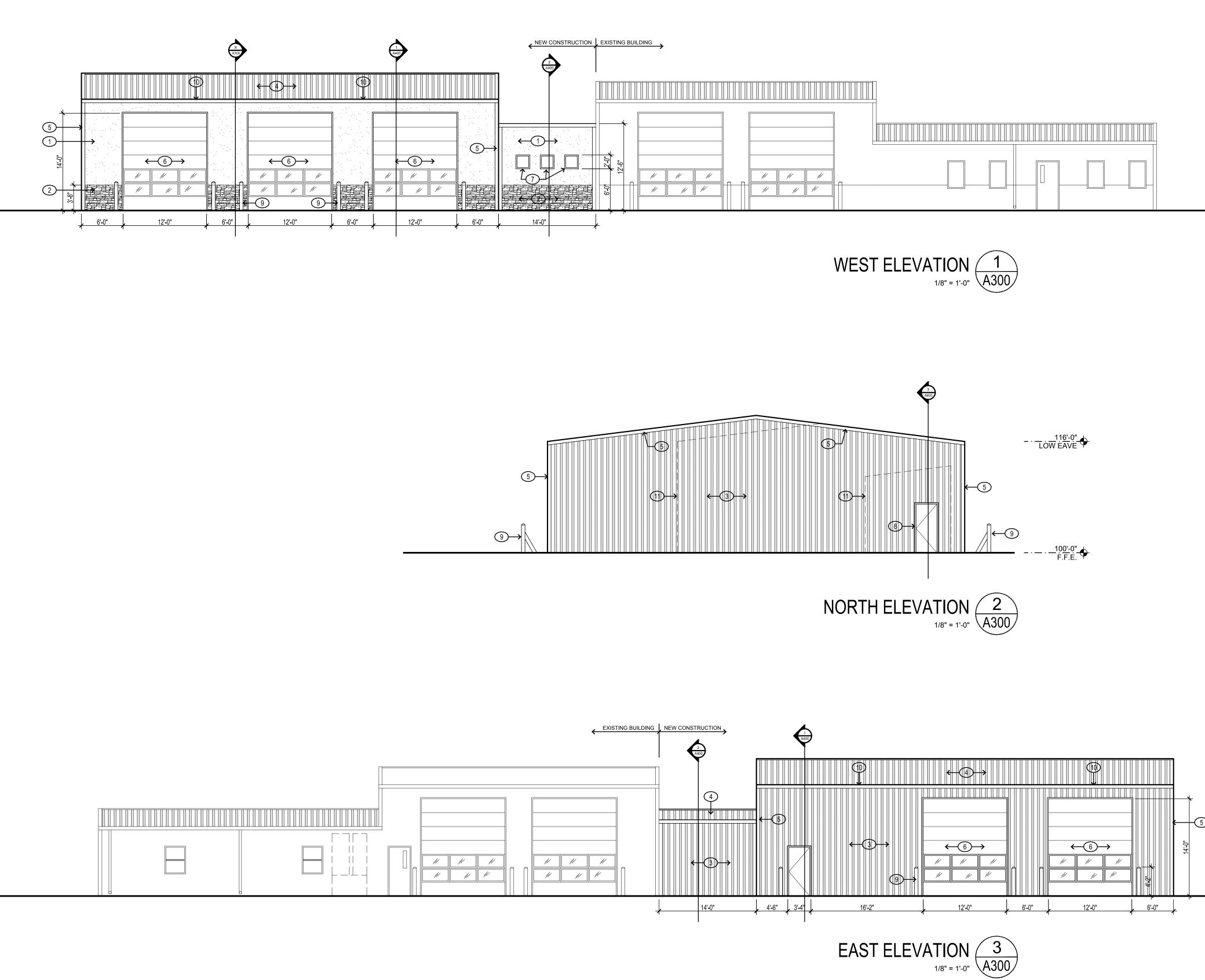
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	• • • 200A 200B 201A 201B 201C 201D 201E 201F 201E 201F 202 203A 203B 204	SERIES ACOUS TEGUL FRP (F BY OW WIDTH 3'-0" 3'-0" 12'-0" 12'-0" 12'-0" 12'-0" 12'-0" 12'-0" 12'-0" 3'-0" 3'-0" 3'-0" 3'-0" 3'-0"	S OR E STICAL AR CE IBERG 'NER/A 'NER/A ' 14'-0" 14'-0" 14'-0" 14'-0" 14'-0" 7'-0" 7'-0" 7'-0" 7'-0"	EQUAL. (C CEILING TILING TI LASS RE RCH. 1-3/4" 1-3/4" 1-3/4" 1-3/4" 1-3/4" 1-3/4" 1-3/4" 1-3/4"		DR AS ROVII DRCE	2"x5 3 2"x5 3 2"x5 3 2"x5 3	ECTE RMST ASTIC ASTIC ASTIC (4" (4" (4" (4" (4" (4"	D BY RON(C) - M/ R R R R M T T T T T T T T T T	OWN G PRE ARLIT E HI E HI F F F F F F F F F F F	INDUS IER/AI ELUDE TE ST/ IW-3 IW-3 IW-3 IW-3 IW-1 IW-4 IW-4 IW-4	G STRIAL RCH. E XL 15 ANDAF DU INSU INSU INSU INSU INSU INSU	HIGH PER 5/16" EXPOS 2D FRP, TEX JLE JLE LATED GAF LATED GAF LATED GAF LATED GAF	SED TE XTURE F RAGE I RAGE I RAGE I RAGE I RAGE I	EE SYS ED. CO ED. CO ED	TEM WITH ULTIMA LOR AS SELECTED KS TO MATCH EXIST. TO MATCH EXIST. TO MATCH EXIST. TO MATCH EXIST.	
	• • • 200A 200B 201A 201B 201C 201D 201E 201F 201E 201F 202 203A 203B 204	SERIES ACOUS TEGUL FRP (F BY OW WIDTH 3'-0" 3'-0" 12'-0" 12'-0" 12'-0" 12'-0" 12'-0" 12'-0" 12'-0" 12'-0" 12'-0" 12'-0" 12'-0" 12'-0" 12'-0" 12'-0" 12'-0" 12'-0"	S OR E STICAL AR CE IBERG IBERG NER/A HT. 7'-0" 7'-0" 14'-0" 14'-0" 14'-0" 14'-0" 7'-0" 7'-0" 7'-0" 7'-0" 7'-0" 7'-0"	EQUAL. (C CEILING TILING TI LASS RE RCH. 1-3/4" 1-3/4" 1-3/4" 1-3/4" 1-3/4" 1-3/4" 1-3/4" 1-3/4"	COLC G - PI LE. EINFC	DR AS ROVII DRCE	2"x5 3 2"x5 3 2"x5 3 2"x5 3	ECTE RMST ASTIC ASTIC ASTIC ASTIC ASTIC (4" (4" (4" (4" (4" (4" (4") (4") (4")	D BY RON(C) - M/ R R R R M T T T T T T T T T T		INDUS IER/AI ELUDE TE ST/ IW-3 IW-3 IW-3 IW-3 IW-1 IW-4 IW-4 IW-4	G STRIAL RCH. E XL 15 ANDAF DU INSU INSU INSU INSU INSU INSU INSU INSU INSU INSU INSU	HIGH PER 5/16" EXPOS 20 FRP, TEX JLE JLE LATED GAF LATED GAF LATED GAF LATED GAF	SED TE XTURE F RAGE I RAGE I RAGE I RAGE I RAGE I	EE SYS ED. CO ED. CO ED	TEM WITH ULTIMA LOR AS SELECTED KS TO MATCH EXIST. TO MATCH EXIST. TO MATCH EXIST. TO MATCH EXIST.	

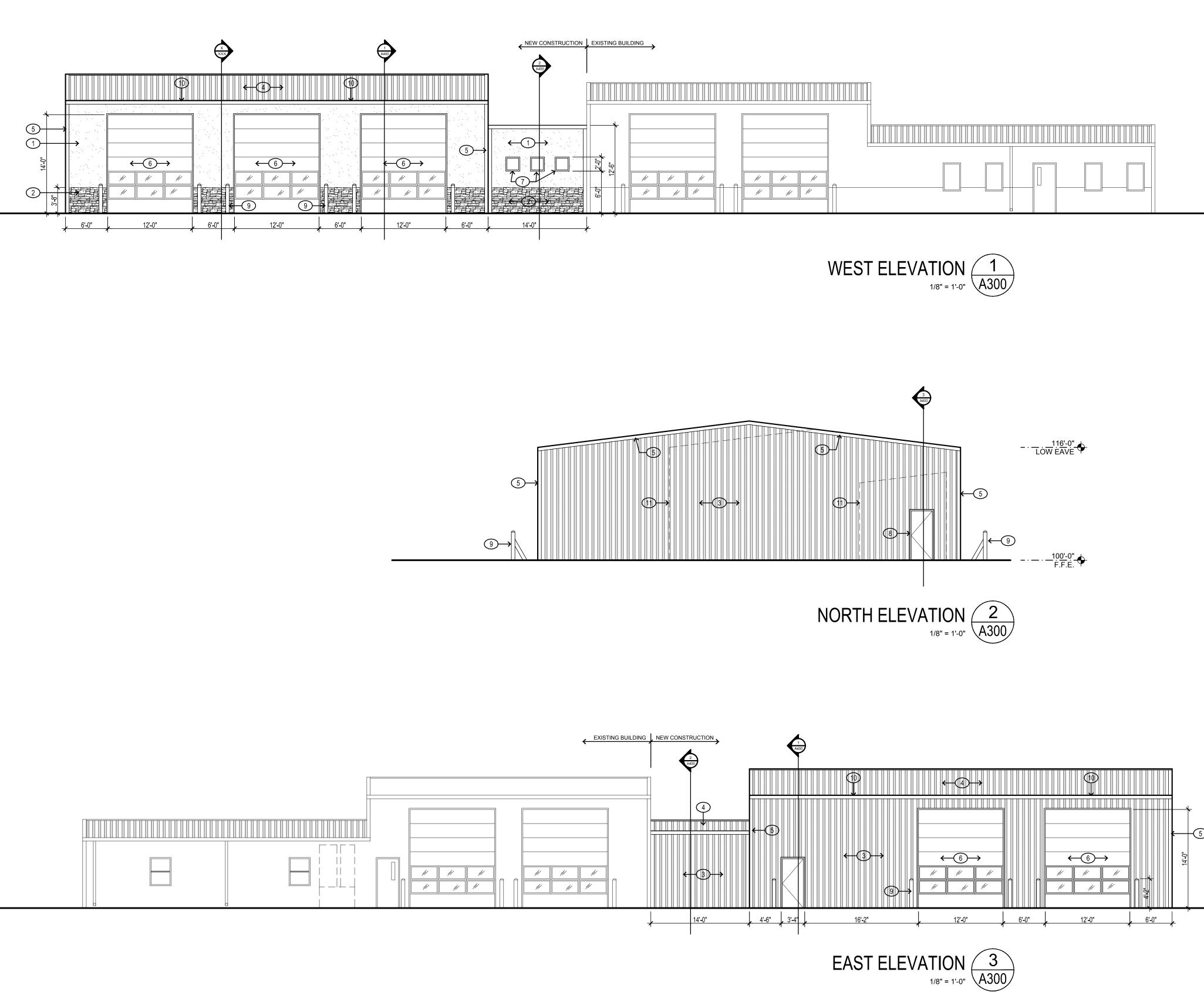
STEEL SECTIONAL DOOR

- CONTRACTOR TO PROVIDE 12'-0"Wx14'-0"H THERMACORE SECTIONAL STEEL DOORS MODEL 596 BY OVERHEAD DOOR COMPANY OR EQUAL.
- PROVIDE WITH THERMAL GLAZING AND ALUMINUM SASH SECTIONS AS SHOWN ON DOOR ELEVATION.
- PROVIDE ALL HIGH USAGE COMPONENTS PROVIDE WITH ELECTRIC OPERATORS AND CHAIN HOIST.
- PROVIDE SAFETY FEATURES AND SENSING EDGES.
- COLOR OPTION TO BE WHITE TO MATCH EXISTING TRUCK BAY DOORS. PROVIDE ALL COMPONENTS REQUIRED FOR FULL INSTALLATION. • INSTALL PER MANUFACTURERS REQUIREMENTS.

- 18-14-12-(1)1 15/16"~











1. 3-COAT STUCCO SYSTEM OVER METAL BUILDING WALL

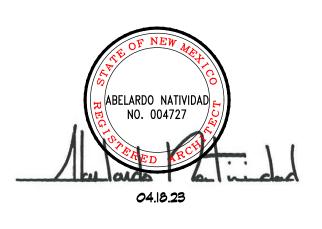
 \bigcirc

- PANELS MATCH EXSITING.2. STONE VENEER OVER STUCCO SCRATCH COAT OVER METAL BUILDING WALL PANELS, MATCH EXISTING.
- 3. PRE-FINISHED METAL BUILDING WALL PANELS BY METAL BUILDING MANUFACTURER.
- 4. PRE-FINISHED METAL BUILDING ROOF PANELS BY METAL BUILDING MANUFACTURER.
- 5. METAL BUILDING TRIM BY METAL BUILDING MANUFACTURER, CONTRACTOR TO PROVIDE ALL REQUIRED METAL BUILDING TRIM AND FLASHING AS REQUIRED BY NEW ADDITION.
- 6. SECTIONAL DOOR, 12Wx14H TO MATCH EXISTING TRUCK BAY DOOR SYSTEM.
- 7. 2X2 H.M. FRAME WINDOW SYSTEM, SEE WINDOW TYPES. 8. H.M. DOOR AND FRAME, SEE DOOR AND FRAME TYPES.
- 9. STEEL PIPE BOLLARD, SEE BOLLARD DETAIL.
- 10. PRE-FINISHED METAL GUTTER AND DOWNSPOUT SYSTEM.
- 11. HIDDEN LINE OF BUILDING BEYOND.



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BUILDING ADDITION

Alamogordo Fire Station 6 Addition

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REVISION

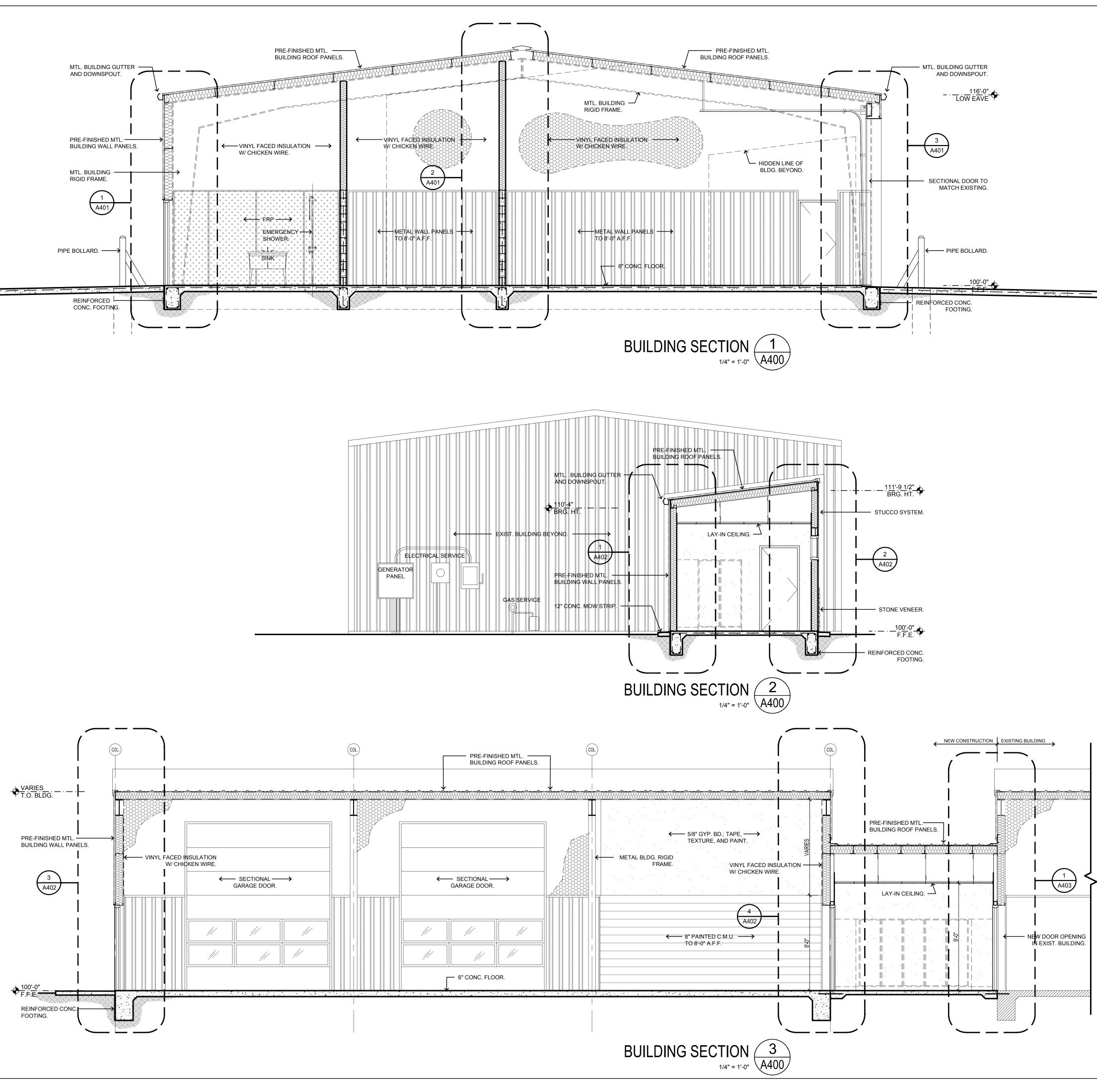
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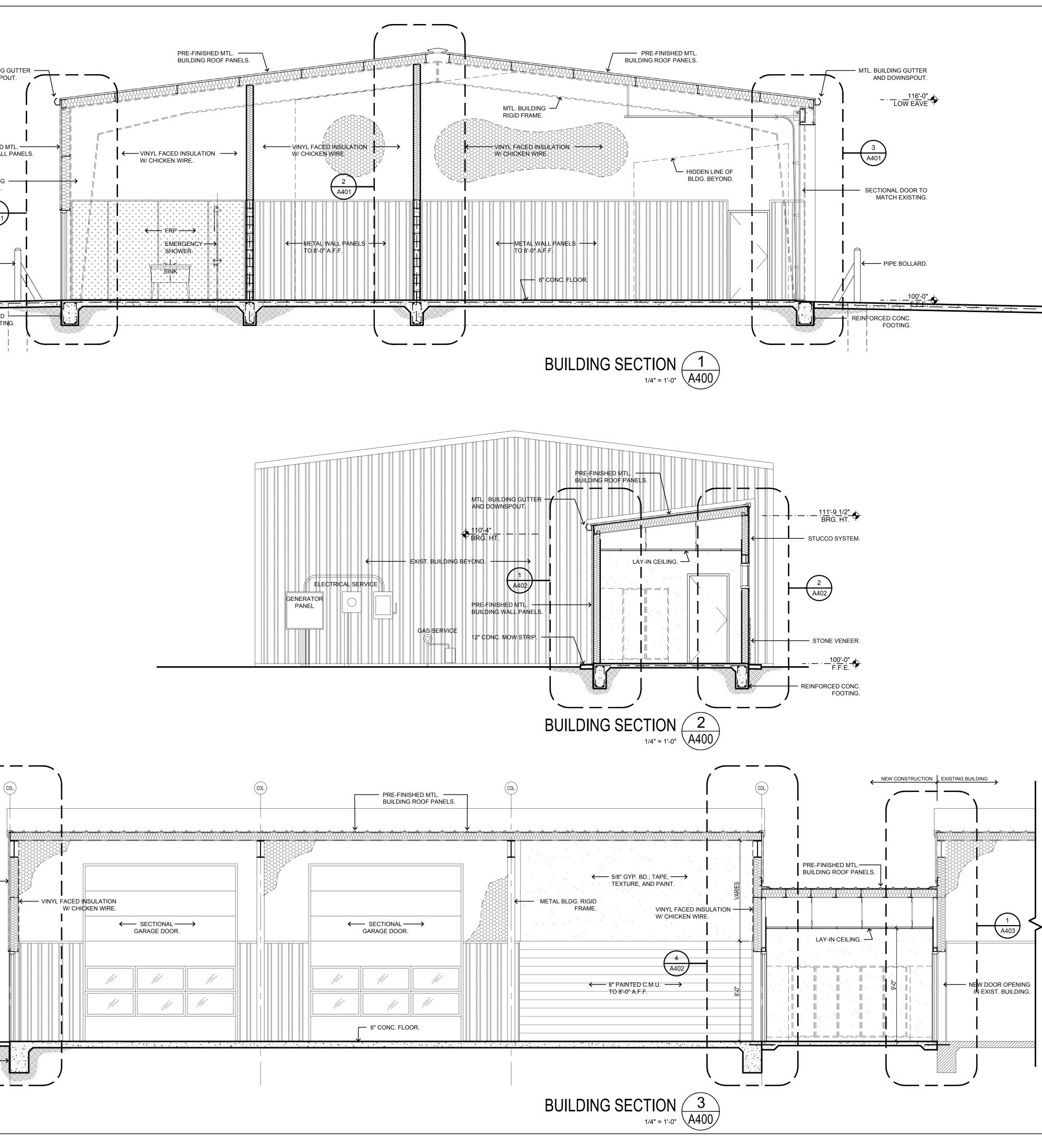
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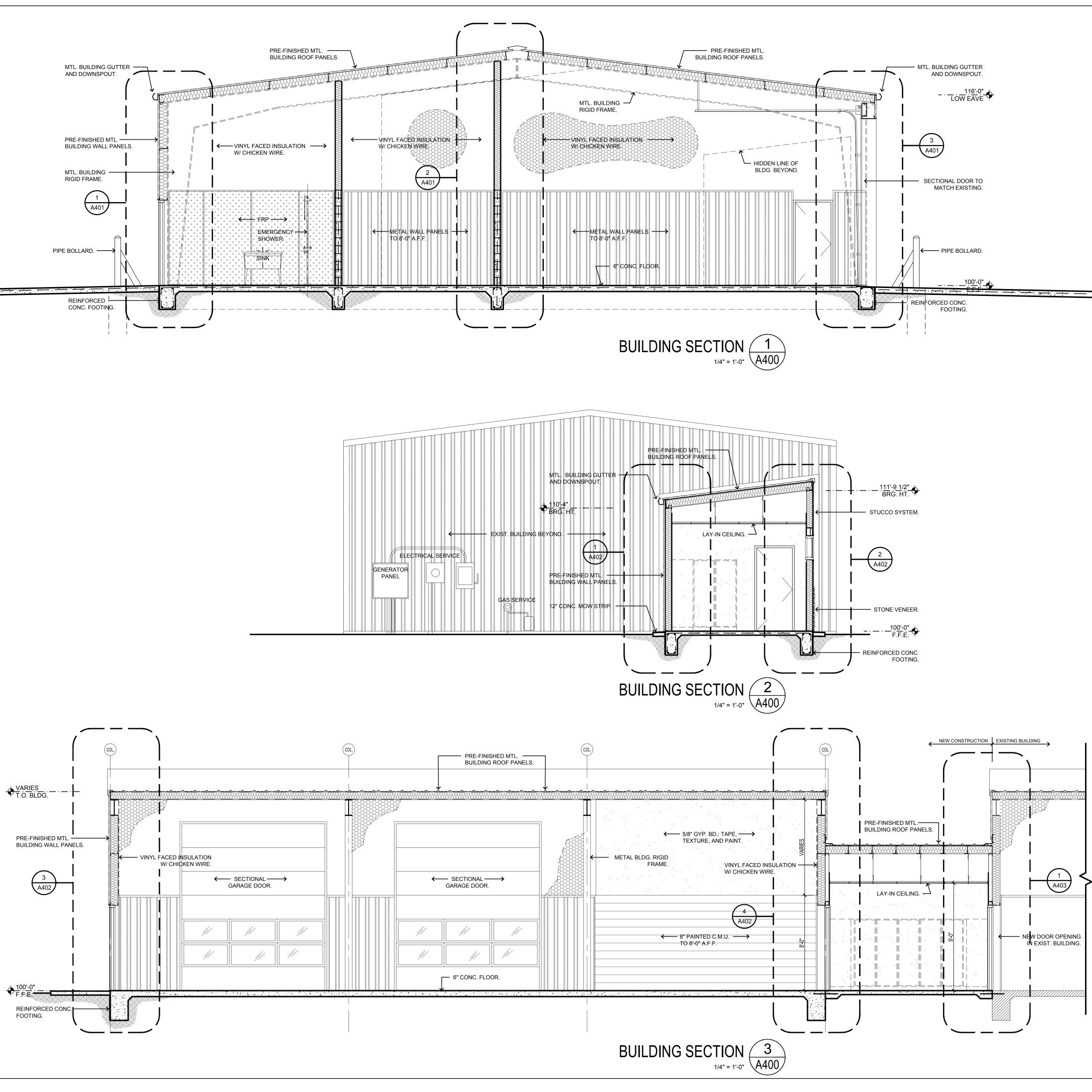
22.11 April 2023











Date: Apr 18, 2023 - 11:58am User:Station 5 Drawing File: K:\2022 Projects\2211 Alamogordo Last Saved By: Station 5 Mar 15, 2023 - 3:52pm Layout Name: A400

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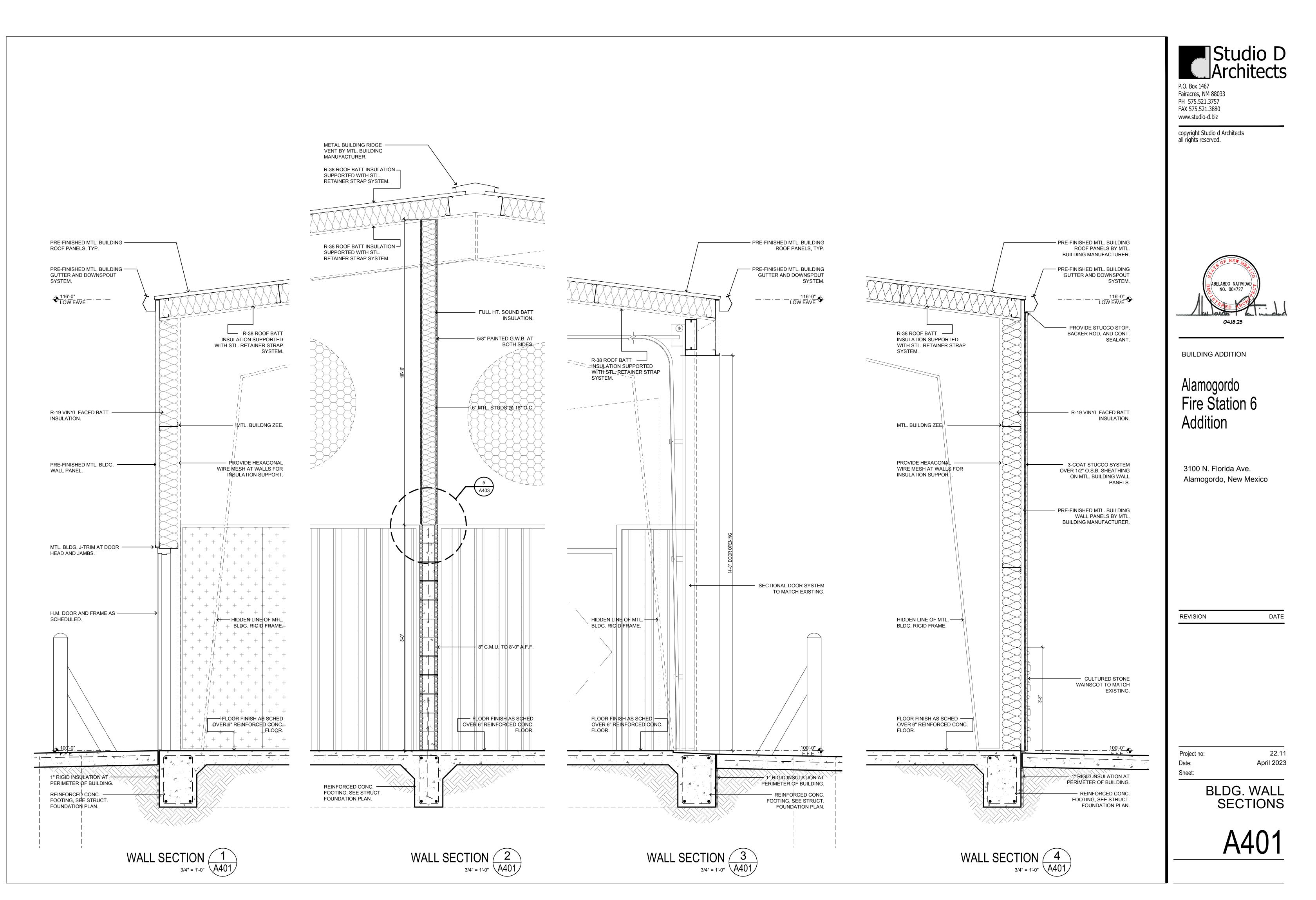
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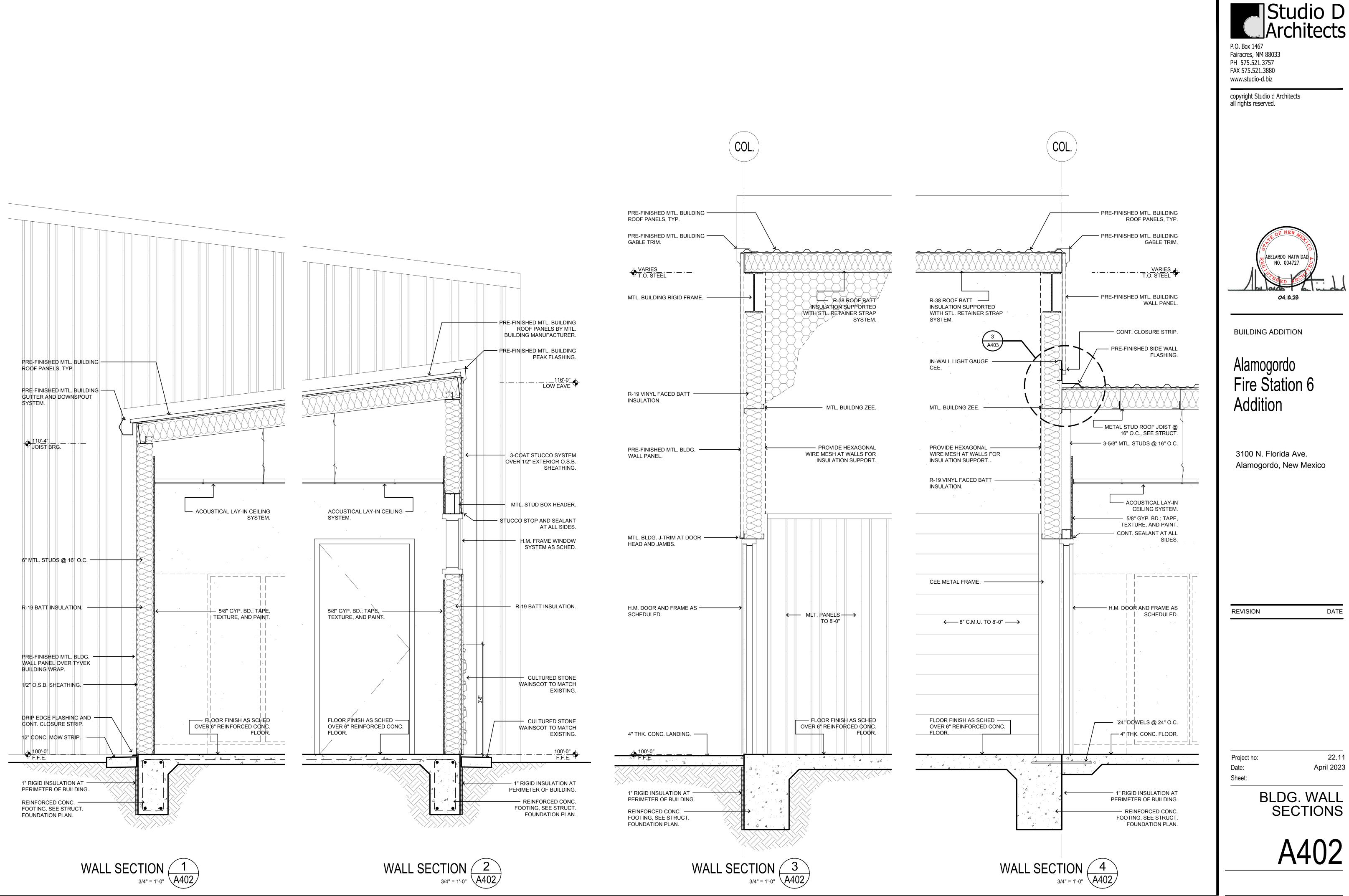
22.11 April 2023



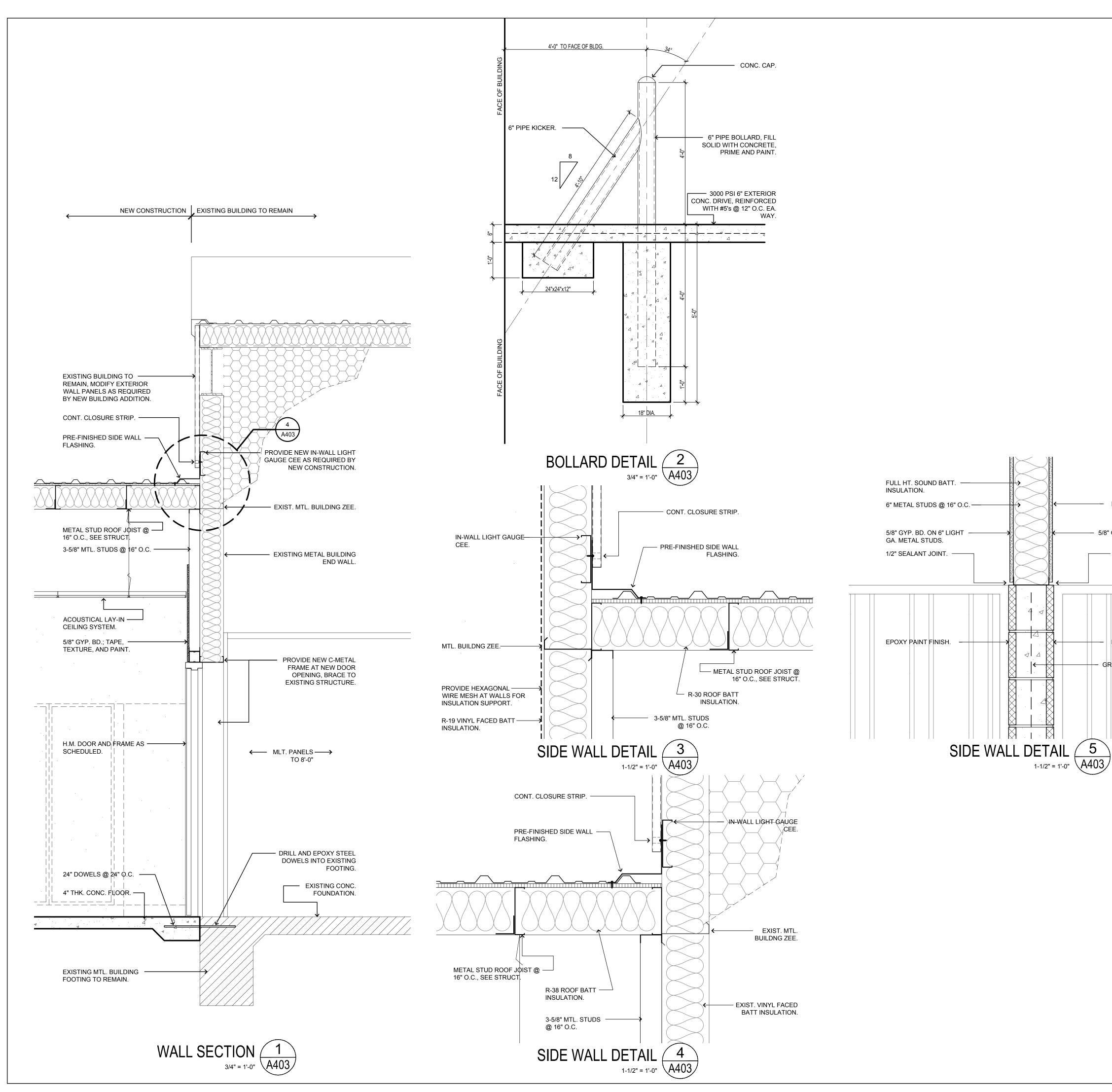




Date: Apr 18, 2023 - 11:57am User:Station 5 Drawing File: K:\2022 Projects\2211 Alamogordo Fire Station\DWG\Sheets\2211-A401 Last Saved By: Station 5 Mar 15, 2023 - 3:52pm Layout Name: A400

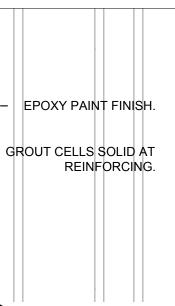


Date: Apr 18, 2023 - 11:54am User:Station 5 Drawing File: K:\2022 Projects\2211 Alamogordo Fi Last Saved By: Station 5 Mar 15, 2023 - 3:52pm Layout Name: A402



Date: Apr 18, 2023 - 11:53am User:Station 5 Drawing File: K:\2022 Projects\2211 Alamogordo Fire Station\DWG\Sheets\2211-A Last Saved By: Station 5 Mar 15, 2023 - 3:51pm Layout Name: A402 - EPOXY PAINT FINISH.

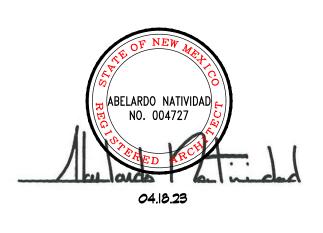
5/8" GYP. BD. ON 6" LIGHT
 GA. METAL STUDS.
 1/2" SEALANT JOINT.





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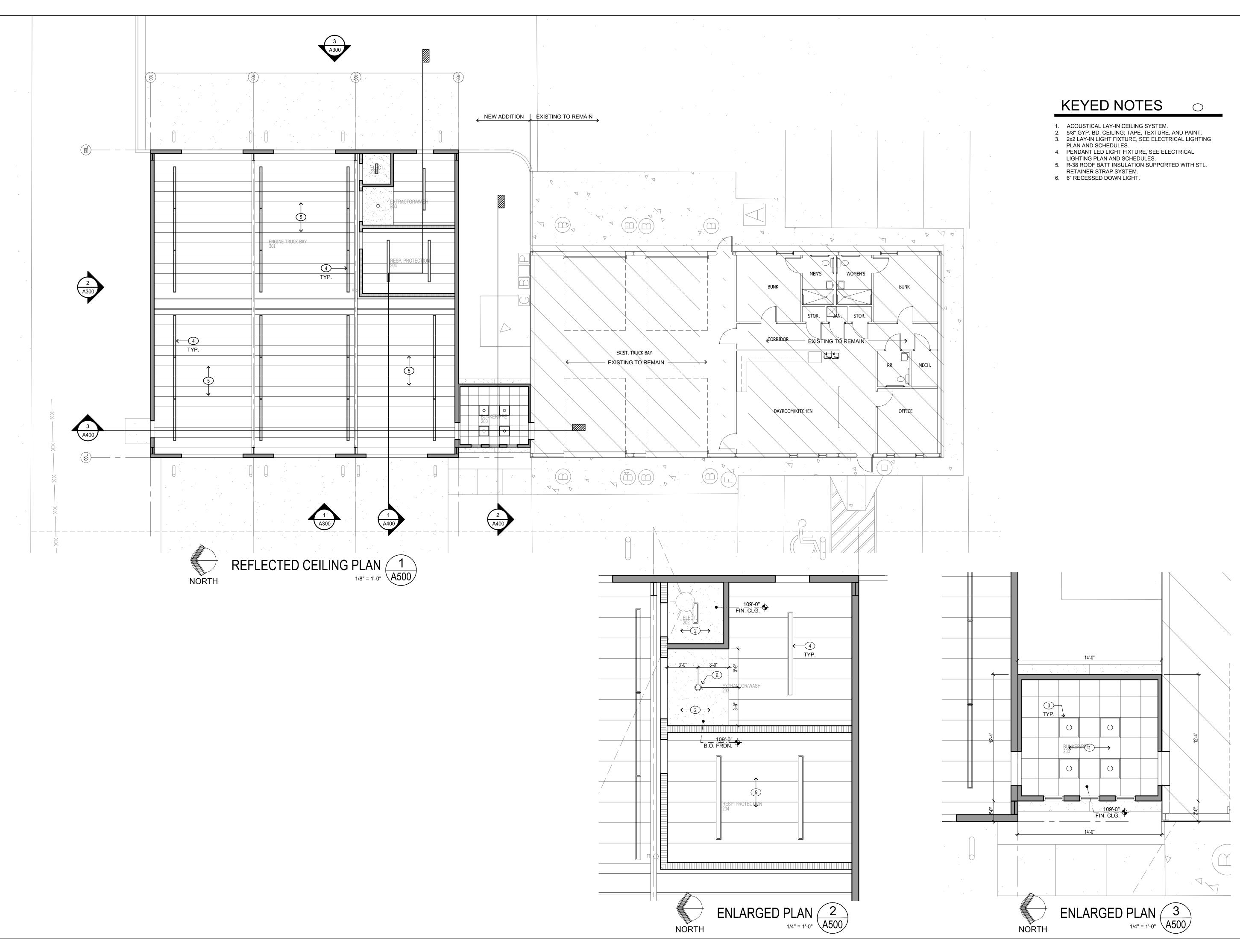
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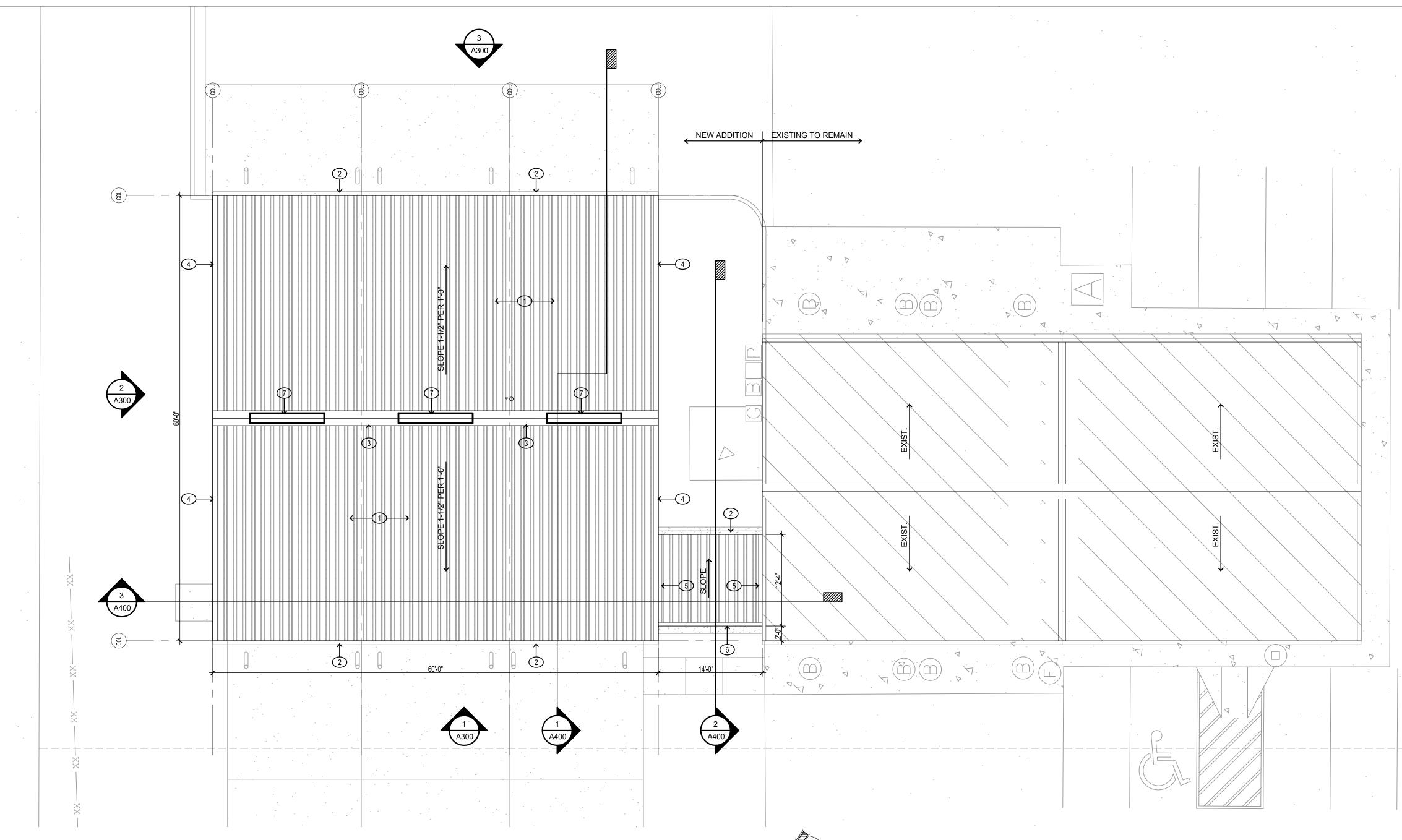
REVISION

DATE

22.11

Project no: Date: April 2023 Sheet: REFLECTED CEILING PLAN





Date: Apr 18, 2023 - 11:51am User:Station 5 Drawing File: K:\2022 Projects\2211 Alamogordo Fire Last Saved By: Station 5 Mar 20, 2023 - 5:43pm Layout Name: A100 (2)







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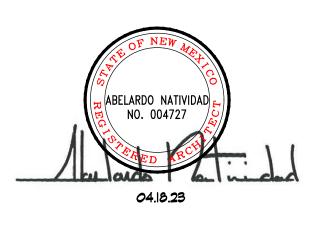
- PRE-FINISHED METAL ROOF PANEL BY METAL BUILDING MANUFACTURER.
 PRE-FINISHED MTL. GUTTER AND DOWNSPOUT SYSTEM BY METAL BUILDING MANUFACTURER.
 PRE-FINISHED RIDGE CAP BY METAL BUILDING MANUFACTURER.
 PRE-FINISHED MTL. RAKE FLASHING BY METAL BUILDING MANUFACTURER.
 PRE-FINISHED MTL. SIDE WALL FLASHING.
 PRE-FINISHED MTL. PEAK FLASHING.

- PRE-FINISHED MTL. PEAK FLASHING.
 PRE-FINISHED METAL RIDGE VENT BY METAL BUILDING MANUFACTURER.



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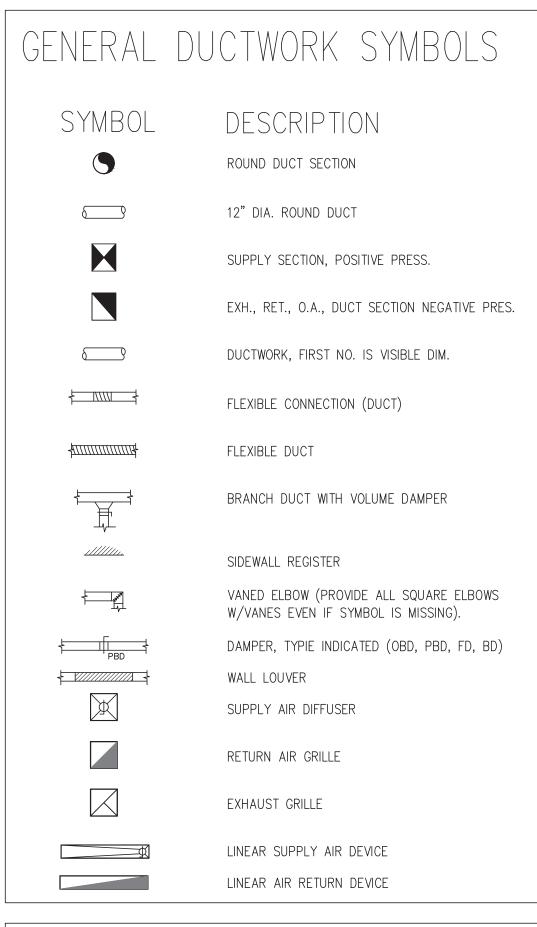
DATE

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April 2023

ROOF PLAN





DRAWING SYMBOLS

SYMBOL 5-TON CU-1 $\langle 2 \rangle$ A.6Ø 150

DESCRIPTION EQUIPMENT MARK NUMBER -5-TON, CU-1

KEYED NOTE 2

TYPE 'A' AIR DEVICE, 150 CFM W/ 6Ø NECK. WHEN NOT INDICATED ON DRAWING REFER TO SCHEDULE

HEATING PIPING SYMBOLS

SYMBOL

—— HWR ——

—— HWS ——

DESCRIPTION HIGH PRESSURE STEAM CONDENSATE

TIGH PRESSURE STEAM CONDENSAT
LOW PRESSURE STEAM CONDENSATE
STEAM SUPPLY (PRESS. AS NOTED)
PUMPED CONDENSATE DRAIN
HOT WATER RETURN
HOT WATER SUPPLY
BOILER FEED WATER
THERMOSTATIC PUMP
FLOAT & THERMOSTATIC TRAP

AIR CONDITIONING SYMBOL DESCRIPTION CHILLED/HEATING WATER RETURN CHILLED/HEATING WATER SUPPLY CHILLED WATER RETURN ——CHWS—— CHILLED WATER SUPPLY —— RL —— REFRIGERANT LIQUID —— RS —— REFRIGERANT SUCTION REFRIGERANT DISCHARGE MAKE-UP WATER ____ CD ____ CONDENSATE DRAIN PUMPED CONDENSATE DRAIN ——PCD——

(CONTROLS
SYMBOL	DESCRIPTION
$(T)_{x}$	THERMOSTAT SERVING ZONE X
Tx	TEMPERATURE SENSOR SERVING ZONE X
©x	MISC. CONTROL SERVING ZONE X REFER TO KEYED NOTES FOR MORE INFORMATION
\mathbb{R}_{X}	REMOTE SENSOR SERVING ZONE X

DEMOLITION / NEW WORK NOMENCLATURE

THE FOLLOWING TAG / IDENTIFIERS ADDED TO THE MECHANICAL DEVICES REPRESENT:

SYMBOL	DESCRIPTION
E	EXISTING TO REMAIN.
R	TO BE RELOCATED / ITEM RELOCATED.
X	TO BE REMOVED.

MECHANICAL SYMBOLS AND ABBREVIATIONS

[SOME SYMBOLS MAY NOT BE USED ON THIS PROJECT]

<u>ABBREV.</u>	DESCRIPTION	<u>ABBREV.</u>	DESCRIPTION	MEC
ABV	ABOVE	МАХ	MAXIMUM	1. ALL WORK S CRAFTSMANSH 2. THE CONTRAC
AC A/C	ABOVE CEILING AIR CONDITIONED	MD MECH	MANUAL DAMPER MECHANICAL	BETWEEN THE
ACCH	AIR COOLED CHILLER	MIN	MINIMUM	3. NOTE: FOR T LOCATIONS OF
AD AF	ACCESS DOOR AIR FOIL	MS	MOTOR STARTER	CONTRACT DO
AFF	ABOVE FINISHED FLOOR	NA	NOT APPLICABLE	4. THE MECHANIC REQUIRED FOR
AFMS AHU	AIR FLOW MEASURING STATION AIR HANDLING UNIT	NC NIC	NORMALLY CLOSED NOT IN CONTRACT	THE PRIME CO
AMCA	AIR MOVING AND CONDITIONING	NO	NORMALLY OPEN	5. THE GENERAL THE PRECISE L
AP	ASSOCIATION INC. ACCESS PANEL	NTS	NOT TO SCALE	MECHANICAL W
APPROX	APPROXIMATE	OA	OUTSIDE AIR	6. THE MECHANIC
ARCH ARI	ARCHITECTURAL AIR CONDITIONING REFRIGERATION INSTITUTE	OAH OBD	OUTSIDE AIR INTAKE HOOD OPPOSED BLADE DAMPER	INSTALL. 7. THE MECHANIC
ANSI	AMERICAN NATIONAL STANDARD INSTITUTE	OC	ON CENTER	TENANT, FOR
AS ASME	AIR SEPARATOR AMERICAN SOCIETY OF MECHANICAL ENGINEERING	PBD	PARALLEL BLADE DAMPER	COMPLETION. 8. THE MECHANIC
ASTM	AMERICAN SOCIETY FOR TESTING MATERIALS	PCHP PRESS	PRIMARY CHILLED WATER PUMP PRESSURE REDUCING VALVE	PENETRATIONS.
AV	AUTOMATIC AIR VENT ASSEMBLY	PSIG	POUNDS PER SQUARE INCH (GAUGE)	USE OF SLEEVI 9. ALL ITEMS PRO
B BD	BOILER BACKDRAFT DAMPER	PHL	PRESSURE HIGH LIMIT	PIPE CURBS A
BHP	BRAKE HORSEPOWER	R-22	REFRIGERANT (TYPE AS NOTED)	ACCOMMODATE 10. ROOF CURBS F
BI BLDG	BACKWARD INCLINED BUILDING	RA	RETURN AIR	GENERAL CONT
BOD	BOTTOM OF DUCT	RE: 4M7.01 RET	REFER TO: DETAIL 4, SHEET M7.01 RETURN	THE STRUCTUR 11. ROOF CURBS F
BOP BSMT	BOTTOM OF PIPE BASMENT	RG	RETURN GRILLE	EQUIPMENT PA
BTU	BRITISH THERMAL UNIT	RH RHD	RELATIVE HUMIDITY RELIEF HOOD	ASSEMBLE THE STRUCTURAL FF
CDP	CONDENSATE DRAIN PUMP	RPM	RPM ROOF TOP UINT	12. ALL OUTDOOR
CFM	CUBIC FEET PER MINUTE	RTU		EXHAUST FAN,
CHP CLG	CHILLED WATER PUMP CEILING	SA SCH		13. GUARDS SHALL OPENING ARE L
CMP	CONDENSER WATER PUMP	SCHP	SCHEDULE SECONDARY CHILLED WATER PUMP	THAN 30 INCHE
CO COND	CLEANOUT CONDENSATE	SD SEC	SMOKE DAMPER SECOND	14. THE MECHANIC
CONN	CONNECTION	SEC	SUPPLY FAN	ARCHITECT. ALI 15. THE MECHANIC.
CONT CP	CONTINUATION CONTROLLABLE PITCH	STD STL	STANDARD STEEL	AND HEADS (W
СТ	COOLING TOWER	SW	SWITCH	MAINTAIN CROS
CU CW	CONDENSING UNIT COLD WATER	TEMP	TEMPERATURE	SUSPENSION SH
Ψ.	CENTER LINE	THL	TEMPERATURE HIGH LIMIT	FIBERGLASS DU
D	DRAIN	TLL TSTAT	TEMPERATURE LOW LIMIT THERMOSTAT	17. ALL RECTANGU SHALL BE FAE
DB	DRY BULB	TU	TERMINAL UNIT	CONNECTIONS N
DCP DG	DATA COLLECTION PANEL DOOR GRILLE	TXV TYP	THERMOSTATIC EXPANSION VALVE TYPICAL	18. ALL HVAC SUP VAPOR BARRIE
DIFF	DIFFUSER			RATINGS OF 25
DN DWG	DOWN DRAWING	UF UH	UNDER FLOOR UNIT HEATER	19. AIR DEVICE SIZE 20. BOTTOM OF DE
DX	DIRECT EXPANSION	UL	UNDERWRITER'S LABORATORIES	UNDERSIDE OF
EA	EACH	V-12	CONTROL VALVE NUMBER	SITE. 21. KEEP DUCTWOR
EAT	ENTERING AIR TEMPERATURE	VAV	VARIABLE AIR VOLUM	THE ELEMENTS.
EDH EG	ELECTRIC DUCT HEATER EXHAUST GRILLE	VB VD	VALVE BOX VOLUME DAMPER	22. DO NOT COVER ALL WORK COV
EF	EXAUST FAN	VEL	VELOCITY	23. PROVIDE VIBRA
ELEC ELEV	ELECTRICAL ELEVATION	VENT VF	VENTILATE VENTILATION FAN	24. ALL MEDIUM PF
ENT	ENTERING	VFD	VARIABLE FREQUENCY DRIVE	PRESSURE DUC BE TESTED AND
EQUIP ER	EQUIPMENT EXHAUST REGISTER	VOL VOLT	VOLUME VOLTAGE	25. ALL PENETRATIO
ESP	EXTERNAL STATIC PRESSURE			26. MECHANICAL C ASSEMBLY IN A
ET EWT	EXPANSION/COMPRESSION TANK ENTERING WATER TEMPERATURE	W W/	WIDE, WIDTH WITH	27. PER APPLICABL
EXH	EXHAUST	W/O	WITHOUT	OR COOLING AI
EXIST	EXISTING	WB	WET BULB	COMBUSTION O
F	DEGREES FAHRENHEIT			INSTALLATION A
FC FD	FAN COIL FIRE DAMPER			SYSTEMS ARE F
FLEX	FLEXIBLE			28. ROOFTOP UNITS
FLG FLR	FLANGE FLOOR			UNITS SHALL R 29. UNLESS NOTED
FM	FACTORY MUTUAL			TO ACCOMMODA
FO FPM	FLAT OVAL DUCT FEET PER MINUTE			30. 29. INSTALL EG 31. 30. CONTRACTO
FT FS	FEET, FOOT FLOW SWITCH			ENERGY COMPL
FS FSD	FLOW SWITCH FIRE SMOKE DAMPER			
GAL	GALLON			32. MECHANICAL CO
GALV	GALVANIZED			33. ALL CONDUITS,
GPM	GALLONS PER MINUTE			VOLTAGE COND 34. MAINTAIN MININ
HB	HOSE BIBB			IN ACCORDANC
HP HR	HORSE POWER HOUR			CEILING GRID C
нк Н	HUUR HIGH, HEIGHT			REQUIRED. ALL 35. REFRIGERANT L
HVAC	HEATING/VENTILATING/			CEILING UNLESS
HWP	AIR CONDITIONING HOT WATER PUMP			36. CONTRACTOR T 37. THE MECHANIC/
HZ	HERTZ			RECOMMENDATI
ID	INSIDE DIAMETER			38. TEST, ADJUST A APPROVAL.
IE	INVERT ELEVATION (FLOW LINE)			APPROVAL. 39. TURNOVER ALL
IH IN	INTAKE HOOD INCHES			40. CONTRACTOR S
INSUL	INSULATION			41. MECHANICAL CO
IN WG	INCHES OF WATER			42. TYPICAL DETAIL
	KILOWATT(S)			SHOWN, CONST OMIT INFORMATI
KW				
KW	LONG LENGTH			17 110-10
KW L LAT LVR	LONG, LENGTH LEAVING AIR TEMPERATURE LOUVER			43. NOTES AND DE

CHANICAL GENERAL NOTES

SHALL BE PERFORMED IN ACCORDANCE WITH ALL APPLICABLE LOCAL, STATE, AND FEDERAL CODES AND STANDARDS. ISHIP AND MATERIAL SHALL BE OF THE HIGHEST QUALITY. ACTOR SHALL REVIEW THE CONTRACT DOCUMENTS FULLY PRIOR TO THE SUBMITTAL PHASE OF THE PROJECT. CONFLICTS WITHIN AND

IE CONTRACT DOCUMENTS SHALL BE NOTED IN WRITING TO THE ENGINEER PRIOR TO SUBMITTING DATA SHEETS FOR REVIEW. THE PURPOSE OF CLEARNESS AND LEGIBILITY, THE DRAWINGS ARE ESSENTIALLY DIAGRAMMATIC AND ALTHOUGH SIZES AND

OF EQUIPMENT ARE DRAWN TO SCALE WHEREVER POSSIBLE, THE CONTRACTOR SHALL MAKE USE OF ALL DATA IN ALL OF THE DOCUMENTS AND VERIFY THIS INFORMATION PRIOR TO ORDERING, FABRICATING OR INSTALLING ANY MATERIALS. NICAL CONTRACTOR SHALL PROVIDE COMPLETE INFORMATION TO, AND COOPERATE WITH, THE OTHER CONTRACTORS AND TRADES AS FOR THE COMPLETION AND COORDINATION OF THE COMPLETE PROJECT. ANY CONFLICTS SHALL BE BROUGHT TO THE ATTENTION OF CONTRACTOR, ENGINEER AND, AS NECESSARY, THE OWNER.

AL CONTRACTOR SHALL MAINTAIN, ON A DAILY BASIS AT THE PROJECT SITE, A COMPLETE SET OF RECORD DRAWINGS REFLECTING E LOCATION OF CONCEALED EQUIPMENT, EMBEDDED PIPING, VALVES, PIPE RE-ROUTES, AND ALL CHANGES OR DEVIATIONS IN THE . WORK FROM THAT SHOWN ON THE CONTRACT DRAWINGS.

ANICAL CONTRACTOR SHALL BE RESPONSIBLE FOR ADMINISTERING ALL WARRANTIES ON EQUIPMENT WHICH THEY FURNISH AND

NICAL CONTRACTOR SHALL PROVIDE A WRITTEN WARRANTY TO REPLACE ALL FAULTY MATERIALS AND/OR LABOR, AT NO COST TO R A PERIOD OF ONE YEAR FROM DATE OF ACCEPTANCE BY THE OWNER. WARRANTIES SHALL BEGIN ON THE DATE OF SUBSTANTIAL

INICAL CONTRACTOR SHALL COORDINATE WITH THE GENERAL CONTRACTOR AND OTHER TRADES FOR ALL REQUIRED OPENINGS AND ONS. ALL REQUIRED OPENINGS IN FOUNDATIONS, FLOORS, WALLS AND ROOF SHALL BE CONSTRUCTED INTO THE STRUCTURE WITH THE EVES, CURBS, ETC. CUTTING AND PATCHING SHALL BE HELD TO A MINIMUM.

PROJECTING THROUGH THE ROOF SHALL BE FLASHED THROUGH CURBS OR PIPE SEALS A MINIMUM OF 12" ABOVE THE ROOF. THE AND SEALS SHALL BE INSTALLED BY THE ROOFING CONTRACTOR. ENSURE THAT AMPLE BOOT OPENINGS ARE PROVIDED TO

ATE ANY ELECTRICAL CONDUIT PENETRATIONS AS REQUIRED FOR POWER. S FOR EXHAUST FANS SHALL BE PER DETAILS SECTION, AND FURNISHED WITH THE FAN BASE, HOOD, AND FAN PACKAGE. THE ONTRACTOR SHALL FLASH ROOF CURBS AND SHIM DEAD LEVEL. COORDINATE EXACT SIZE AND LOCATION OF ROOF OPENINGS WITH URAL FRAMING. CUTTING OF STRUCTURAL MEMBERS IS NOT PERMITTED.

S FOR ROOFTOP UNITS SHALL BE FACTORY FABRICATED OF GALVANIZED STEEL CONSTRUCTION, AND FURNISHED WITH THE HVAC PACKAGE. VERIFY REQUIREMENTS FOR THE ROOF CURBS WITH THE EQUIPMENT SUPPLIER. THE GENERAL CONTRACTOR SHALL FIELD THE ROOF CURBS, FLASH AND SHIM DEAD LEVEL. COORDINATE EXACT SIZE AND LOCATION OF ROOF OPENINGS WITH THE FRAMING. CUTTING OF STRUCTURAL MEMBERS IS NOT PERMITTED.

OR AIR INTAKES BY MECHANICAL EQUIPMENT SHALL HAVE A MINIMUM 10'-0" HORIZONTAL CLEARANCE FROM THE DISCHARGE OF ANY FAN, COMBUSTION EXHAUST OR PLUMBING VENT.

HALL BE PROVIDED WHERE APPLIANCES, EQUIPMENT, FANS OR OTHER COMPONENTS THAT REQUIRE SERVICE AND ROOF HATCH E LOCATED WITHIN 10' OF A ROOF EDGE OR OPEN SIDE OF A WALKING SURFACE AND SUCH EDGE OR OPEN SIDE IS LOCATED MORE ICHES ABOVE THE FLOOR, ROOF OR GRADE BELOW.

ANICAL CONTRACTOR SHALL COORDINATE THE INSTALLATION AND FINISH OF ALL SUPPLY AND RETURN AIR DEVICES WITH THE ALL INTERIOR FACES OF DUCTWORK BEHIND RETURN AIR GRILLES SHALL BE PAINTED FLAT BACK FOR LINE OF SIGHT. NICAL CONTRACTOR SHALL COORDINATE ALL DUCT AND DIFFUSER LOCATIONS WITH LIGHT FIXTURES AS WELL AS SPRINKLER PIPING

(WHERE INCLUDED IN THE PROJECT) FOR A COMPLETE INSTALLATION. WHERE THE ALTERATION OF DUCT SIZES ARE NECESSARY, ROSS-SECTIONAL AREAS.

ETURN AND RESTROOM EXHAUST DUCT CONSTRUCTION SHALL BE GALVANIZED STEEL. ANY REQUIRED GAUGES, SWAY BRACING AND SHALL CONFORM TO SMACNA STANDARDS. SEAL ALL SEAMS AND JOINTS AIR AND WATERTIGHT. FLEXIBLE ALUMINUM DUCTWORK OR DUCTBOARD CAN BE ALLOWED WITH ENGINEER'S PRIOR APPROVAL.

NGULAR, ROUND, AND FLEXIBLE DUCTWORK SHALL BE SIZED WITH CLEAR INSIDE DIMENSIONS AS SHOWN ON THESE DRAWINGS; AND FABRICATED AND INSTALLED ACCORDING TO THE MOST RECENTLY PUBLISHED SMACNA STANDARDS. ALL JOINTS, SEAMS, AND S MUST BE SECURELY FASTENED & SEALED.

SUPPLY AND RETURN CONCEALED DUCTWORK TO BE EXTERNALLY WRAPPED AND SECURED WITH MINIMUM R-6.0, 2" INSULATION WITH RRIER PER APPLICABLE MECHANICAL CODES, WITH LOCAL JURISDICTION CODE AMENDMENTS. INSULATION SHALL HAVE MAXIMUM 5 25 FLAME SPREAD, 50 SMOKE DEVELOPED.

SIZES SHOWN ON SCHEDULES ARE NECK SIZES.

DUCT ELEVATION INDICATED ON THE DRAWING INDICATES THE APPROXIMATE HEIGHT ABOVE FINISHED FLOOR LEVEL TO THE E OF THE DUCT. THIS INFORMATION IS PROVIDED AS AN AID TO COORDINATION. THE CONTRACTOR SHALL VERIFY ALL DIMENSIONS ON

WORK AND PIPING INTERIOR CLEAN AND FREE OF DEBRIS THROUGHOUT THE PROJECT. CAP ALL PIPING AND DUCTWORK EXPOSED TO

OVER ANY MECHANICAL OR PLUMBING WORK IN WALLS, ABOVE CEILINGS, ETC. PRIOR TO REQUESTING OBSERVATION BY THE ENGINEER. COVERED WITHOUT OBSERVATION BY THE ENGINEER SHALL BE UNCOVERED FOR OBSERVATION.

BRATION ISOLATION DEVICES AND FLEXIBLE DUCT/ PIPING CONNECTIONS TO ALL MOVING MACHINERY NOT INTERNALLY ISOLATED. PRESSURE DUCTWORK SHALL BE TESTED IN ACCORDANCE WITH SMACNA HVAC AIR DUCT LEAKAGE TEST MANUAL. 10% OF LOW DUCT SYSTEM SHALL BE TESTED. IF LEAKAGE TEST RESULTS EXCEED THE MAX. ALLOWABLE RATE, THE ENTIRE DUCT SYSTEMS SHALL AND DUCT LEAKAGE SHALL BE CORRECTED UNTIL SATISFACTORY RATES ARE OBTAINED.

ATIONS IN FIRE RATED WALL ASSEMBLIES SHALL BE SEALED WITH UL LISTED FIRE STOPPING MATERIAL. . CONTRACTOR SHALL PROVIDE FIRE DAMPERS AT ANY LOCATION WHERE DUCTWORK PASSES THROUGH A FIRE RATED WALL

N ACCORDANCE WITH IFC. CABLE MECHANICAL CODES, WITH LOCAL JURISDICTION CODE AMENDMENTS WHEN REQUIRED, EACH SINGLE SYSTEM PROVIDING HEATING AIR IN EXCESS OF 2000 CUBIC FEET PER MINUTE SHALL BE EQUIPPED WITH AN AUTOMATIC SHUTOFF. AUTOMATIC SHUTOFF SHALL LISHED BY INTERRUPTING THE POWER SOURCE OF THE AIR MOVING EQUIPMENT DEVICES WHICH WILL DETECT PRODUCTS OF I OTHER THAN HEAT, AND WHICH COMPLY WITH THE IBC, SHALL BE LABELED BY AN APPROVED AGENCY FOR AIR DUCT N AND SHALL BE INSTALLED IN ACCORDANCE WITH THE MANUFACTURER'S INSTALLATION INSTRUCTIONS. SUCH DEVICES SHALL BE

WITH THE OPERATING VELOCITIES, PRESSURES, TEMPERATURES AND HUMIDITIES OF THE SYSTEM WHERE FIRE DETECTION OR ALARM RE PROVIDED FOR THE BUILDING, SMOKE DETECTORS SHALL BE SUPERVISED BY SUCH SYSTEMS. NITS SHALL BE SET TO RUN IN "FAN CONTINUOUS" MODE DURING OCCUPIED HOURS. DURING NIGHT SET-BACK HOURS, THE ROOFTOP

L RUN IN "FAN AUTO" MODE.

TED OTHERWISE, ALL CAPACITIES INDICATED ARE AT SITE CONDITIONS. ALL EQUIPMENT SHALL BE ADJUSTED, MODIFIED AND ORDERED ODATE SITE CONDITIONS _ EQUIPMENT TO AVOID SOUND OR NOISE TRANSMISSION TO OCCUPIED SPACES.

ACTOR SHALL COMPLY WITH ALL REQUIREMENTS LISTED ON THE DRAWINGS AND SPECIFICATIONS INCLUDING THOSE LISTED UNDER THE MPLIANCE REPORT. ALL EQUIPMENT INSTALLED SHALL BE PROVIDED WITH THE MANUFACTURER'S RECOMMENDED MAINTENANCE AND CLEARANCES.

. CONTRACTOR SHALL FURNISH AND INSTALL 4" HIGH BLACK OVER WHITE LAMINATE NAMEPLATE WITH 2" LETTERS VISIBLE ADJACENT NECT SWITCH FOR ALL MECHANICAL EQUIPMENT."

JITS, DISCONNECT SWITCHES AND FINAL CONNECTIONS FOR LINE VOLTAGE WIRING SHALL BE BY THE ELECTRICAL CONTRACTOR. LOW ONDUIT, WIRING AND FINAL CONNECTIONS BY MECHANICAL CONTRACTOR.

IINIMUM CLEARANCES IN FRONT OF ALL CONTROL AND ELECTRIC PANELS ON EQUIPMENT SUCH AS FANS, AIR TERMINAL UNITS, ETC. ANCE WITH THE FOLLOWING: 120 V = 36", 208 V = 42", 460 V = 48". CLEARANCE MAY BE MEASURED THROUGH REMOVABLE O OR ACCESS PANEL. WHERE FACTORY MOUNTED PANELS DO NOT ALLOW ADEQUATE CLEARANCE, RELOCATE AND REMOUNT AS ALL FACTORY WARRANTIES SHALL BE MAINTAINED.

T LINES & DUCTS IN FINISH ROOMS OR SPACES SHALL BE CONCEALED IN FURRED CHASES OR INSTALLED ABOVE SUSPENDED LESS NOTED OTHERWISE.

R TO PROVIDE ALL REQUIRED CONDENSATE LINES FOR ALL EQUIPMENT, REFER TO PLUMBING PLANS. NICAL CONTRACTOR SHALL BE RESPONSIBLE FOR REPLACING THE AIR FILTERS AT THE ROOFTOP UNITS WITH AS PER MANUFACTURER DATIONS AT THE COMPLETION OF CONSTRUCTION AND PRIOR TO AIR BALANCE.

ST AND BALANCE ALL AIR AND WATER SYSTEMS AFTER INSTALLATION IS COMPLETE. SUBMIT REPORTS TO ENGINEER FOR REVIEW AND

ALL EQUIPMENT AND MATERIAL OWNING, OPERATING AND MAINTENANCE (OM) MANUALS TO OWNER AFTER INSTALLATION IS COMPLETE. R SHALL HAVE A THIRD PARTY CERTIFIED TEST AND BALANCE REPORT PERFORMED AT COMPLETION OF PROJECT. THIRD PARTY TAB R TO BE SELECTED BY OWNER. ANY DIFFERENCES ARE THE RESPONSIBILITY OF THE MECHANICAL CONTRACTOR. . CONTRACTOR SHALL BE ON SITE AND PRESENT AT THE DATE OF PROJECT TURNOVER.

TAILS AND NOTES SHALL APPLY, THOUGH NOT NECESSARILY INDICATED AT A SPECIFIC LOCATION ON PLANS. WHERE NO DETAILS ARE INSTRUCTION SHALL CONFORM TO SIMILAR WORK ON THE PROJECT. DETAILS MAY SHOW ONLY ONE SIDE OF CONNECTION OR MAY MATION FOR CLARITY.

DETAILS ON DRAWINGS SHALL TAKE PRECEDENCE OVER GENERAL STRUCTURAL NOTES AND TYPICAL DETAILS.

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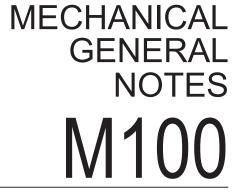
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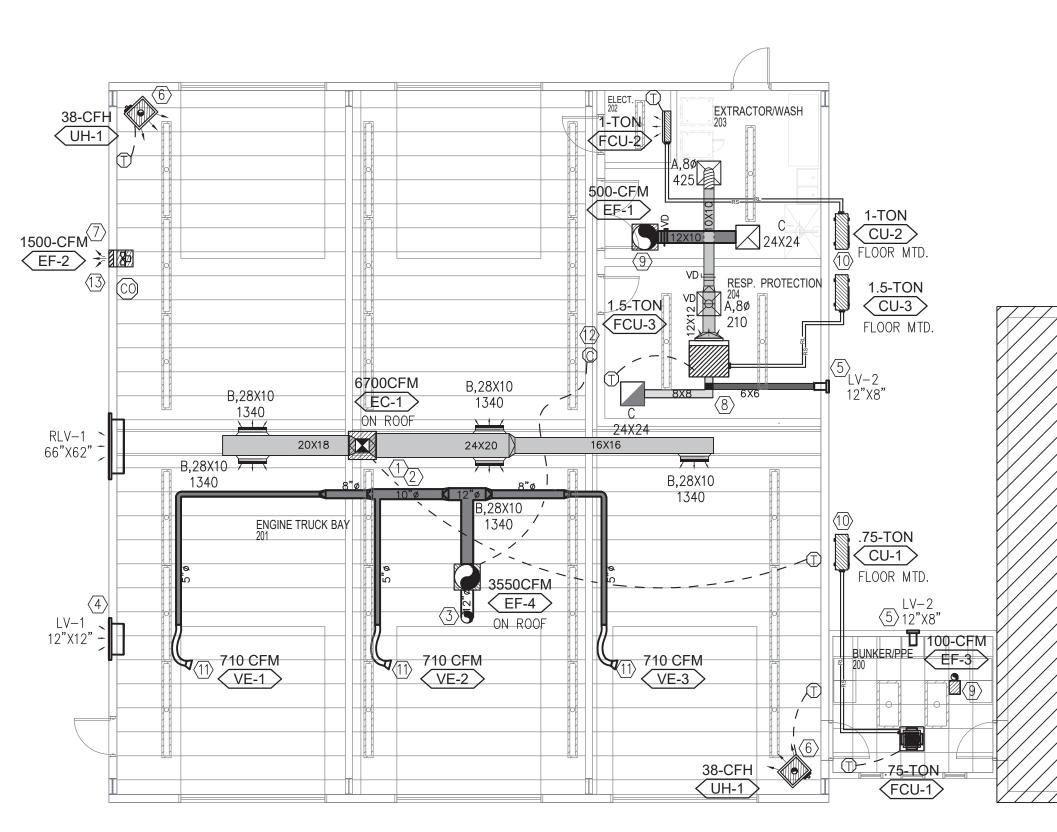
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KEYED NOTES 🐼

- 1. DUCT OPENING SHALL NOT BE MORE THAN 1/4" CLEARANCE AND CAULKED FULLY ABOVE AND BELOW, WITH ACOUSTICAL GRADE NON-HARDENING HUSH SEALANT.
- 2. SUPPLY DUCT OPENING SIZE 27" X 26-7/8" FROM UNIT.
- 3. FUTURE 12"Ø EXHAUST AIR DUCT UP THROUGH ROOF TO EF-4 BY OWNER.
- 4. PROVIDE AND INSTALL 42" X 30" WALL LOUVER WITH BAROMETRIC BACK DAMPER. COORDINATE WITH ARCHITECT FOR EXACT LOCATION PRIOR TO COMMENCING ANY WORK.
- 5. PROVIDE AND INSTALL 12" X 8" INTAKE WALL LOUVER WITH BAROMETRIC BACK DAMPER. COORDINATE WITH ARCHITECT FOR EXACT LOCATION PRIOR TO COMMENCING ANY WORK.
- 6. 4"Ø ROUND FLUE VENT THRU ROOF TO WEATHER CAP FROM UNIT HEATER.
- 7. 20" X 20" DUCT THRU WALL TO EXHAUST FAN.
- 8. PROVIDE AND INSTALL MIXING BOX MICROMETL OR APPROVED EQUAL.
- 9. 6"Ø ROUND DUCT THRU ROOF TO GOOSENECK FROM EXHAUST FAN
- 10. PROVIDE 4" CONCRETE PAD FOR FLOOR MOUNTED UNITS
- 11. FUTURE PLYMOVENT MAGNETIC NOZZLE FOR EFFECTIVE EXHAUST REMOVAL. MOUNT ON SLIDING BALANCER TRACK PLYMOVENT SBT-MAGNETIC COORDINATE WITH EQUIPMENT INSTALLER FOR EXACT REQUIREMENTS PRIOR TO COMMENCING ANY WORK. FUTURE INSTALLATION BY OWNER.
- 12. PROVIDE AND INSTALL OS-3 AUTOMATIC SYSTEM CONTROL FOR VEHICLE EXHAUST SYSTEM. COORDINATE WITH EQUIPMENT INSTALLER FOR EXACT REQUIREMENTS PRIOR TO COMMENCING ANY WORK.
- 13. CARBON MONOXIDE SHALL BE MOUNTED AT 48" A.F.F. SHALL BE INTER LOCKED WITH EF-2.

GENERAL NOTES

A. FUTURE VEHICLE EXHAUST SYSTEM TO BE INSTALLED BY OWNER UNDER SEPARATE CONTRACT.



RLV-1 66"X62"

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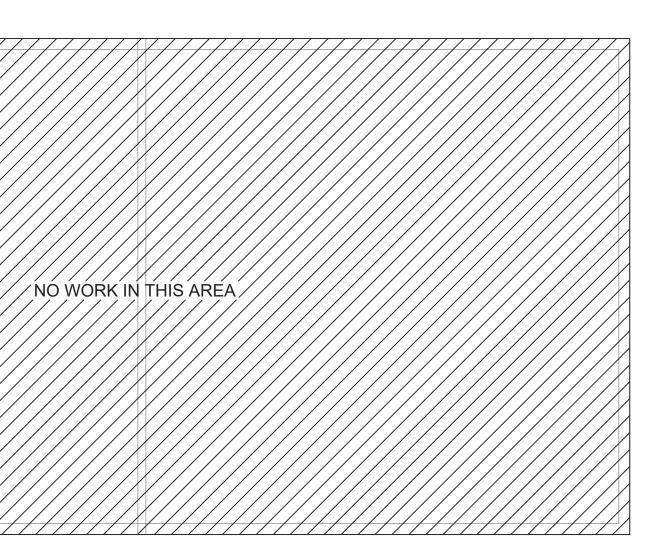
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Owner/Agent:

Project Information Energy Code: Project Title: Location: Climate Zone: Project Type:

2018 IECC ALAMOGORDO FIRE STATION 6 ADDITION Alamogordo, New Mexico 3b Addition

Construction Site: 3100 N FLORIDA AVE. ALAMOGORDO, NM 88310 Designer/Contractor: JOSE MORALES RAXIS ENGINEERING, LLC 1712 TEXAS AVE. EL PASO, TX 79901 (915) 519-4340

jmorales@raxisengineering.com

Mechanical Systems List

Quantity System Type & Description 1 CU-1/FCU-1 (Single Zone):

- Split System Heat Pump Heating Mode: Capacity = 10 kBtu/h, Proposed Efficiency = 9.00 HSPF, Required Efficiency = 8.20 HSPF Cooling Mode: Capacity = 9 kBtu/h,
- Proposed Efficiency = 19.00 SEER, Required Efficiency: 14.00 SEER Fan System: None
- 1 CU-2/FCU-2 (Single Zone): Cooling: 1 each - Split System, Capacity = 12 kBtu/h, Air-Cooled Condenser, Air Economizer Proposed Efficiency = 19.00 SEER, Required Efficiency: 13.00 SEER Fan System: None
- 1 CU-3/FCU-3 (Single Zone):
- Split System Heat Pump Heating Mode: Capacity = 20 kBtu/h,
- Proposed Efficiency = 10.10 HSPF, Required Efficiency = 8.20 HSPF Cooling Mode: Capacity = 18 kBtu/h, Proposed Efficiency = 17.20 SEER, Required Efficiency: 14.00 SEER
- Fan System: None
- 1 UH-1 (Single Zone): Heating: 1 each - Unit Heater, Gas, Capacity = 38 kBtu/h Proposed Efficiency = 80.00% Ec, Required Efficiency: 80.00 % Ec Fan System: None

Mechanical 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 2018 IECC requirements in COMcheck Version 4.1.5.5 and to comply with any applicable mandatory requirements listed in the Inspection Checklist.

MARK DESCRIPTION		MANUFACTURER AND MODEL NUMBER OR APPROVED EQUAL	REMARKS						
Α	SUPPLY SURFACE MOUNT	SHOEMAKER CB40	SOFT WHITE FINISH, ALUMINUM CONSTRUCTION, ADJUSTABLE CURVED BLADE, 4-WAY PATTERN, 24" 24" FACE						
В	SUPPLY	SHOEMAKER	SOFT WHITE FINISH, ALUMINUM CONSTRUCTION, ADJUSTABLE FRONT AND REAR BLADES, FACE SIZ						
	DUCT MOUNT	904	AS INDICATED. PROVIDE WITH OPPOSODE BLADE DAMPERS FOR AIRFLOW VOLUME ADJUSTMENT						
С	RETURN	SHOEMAKER	SOFT WHITE FINISH, ALUMINUM CONSTRUCTION, 1/2"X1/2"X1/2" LATTICE, EXTRUDED ALUMINUM						
	SURFACE MOUNT	600	FRAME, FACE SIZE AS INDICATED						
D	RETURN	SHOEMAKER	SOFT WHITE FINISH, ALUMINUM CONSTRUCTION, 1/2"X1/2" LATTICE, EXTRUDED ALUMINUM						
	LAY-IN	600	FRAME, FACE SIZE AS INDICATED						

	EXHAUST FAN SCHEDULE											
MARK	MANUFACTURER AND MODEL Number or approved equal	EXHAUST FLOW CFM	DIAMETER	LENGTH FT	REMARKS							
VE-1	PLYMOVENT ST	710	5"Ø	24'	PROVIDE WITH MAGNETIC GRABBER, TAIL PIPE CONNECTOR, AUTOMATIC SYSTEM CONTROL							
VE-2	PLYMOVENT ST	710	5"Ø	24'	PROVIDE WITH MAGNETIC GRABBER, TAIL PIPE CONNECTOR, AUTOMATIC SYSTEM CONTROL							
VE-3	PLYMOVENT ST	710	5 " Ø	24'	PROVIDE WITH MAGNETIC GRABBER, TAIL PIPE CONNECTOR, AUTOMATIC SYSTEM CONTROL							
VE-4	PLYMOVENT ST	710	5"Ø	24'	PROVIDE WITH MAGNETIC GRABBER, TAIL PIPE CONNECTOR, AUTOMATIC SYSTEM CONTROL							
VE-5	PLYMOVENT ST	710	<mark>5</mark> "Ø	24'	PROVIDE WITH MAGNETIC GRABBER, TAIL PIPE CONNECTOR, AUTOMATIC SYSTEM CONTROL							

	EVAPORATIVE COOLER SCHEDULE										
MARK	MANUFACTURER AND MODEL NO OR APPROVED EQUAL	CFM	ESP	НР	MOTOR HP VOLTS PHASE # SPDS		# SPDS	REMARKS			
EC-1	PMI AEROCOOL TD 6500 MODEL	6500	0.63	3/4	120	1	2	8' CELDEK MEDIA, SINGLE INLET, NEW FRAME, CLEAN MACHINE, & DIGI THERMOSTAT.			

EXHAUST FAN SCHEDULE

MARK	MANUFACTURER AND MODEL			MOTOR					
	NUMBER OR APPROVED EQUAL	CFM	ESP	нр	VOLTS	PHASE	# SPDS	SONES	REMARKS
EF-1	PENNBARRY DX11Q	500	0.375	1/4	120	1	1	5.4	PROVIDE WITH VIBRATION ISOLATORS, MANUFACTURER HINGED ROOF CURB AND GRAVITY BACKDRAFT DAMPER.
EF-2	PENNBARRY P16SA	1500	0.25	1/4	120	1	1	6.9	20"X20" HEAVY ALUMINUM WALL FAN. PROVIDE WITH MANUFACTURER WALL HOUSING, GRAVITY DAMPER, BIRD SCREEN AND WEATHERHOOD. DISCONECT AND SPEED CONTROL MOUNTED AND WRED TO THE FAN.
EF-3	PENNBARRY ZQ105	100	0.125	27 W	120	1	1	0.9	PROVIDE WITH VIBRATION ISOLATORS, BACKDRAFT DAMPER, ALUMINUM PERFORATED GRILLE, AND ROOF CAP. UNIT CONTROLLED BY SWITCH.
EF-4	PLYMOVENT TEV-585	3550	5	7.5	208	3	1	85	PROVIDE AND INSTALL MANUFACTURER RECOMMENDED UNIVERSAL FAN PLATFORM, DISCONNECT SWITCH NEMA 1 MOUNTED AND WRED. PROVIDE WITH MOTOR COVOER, FLEXIBLE INLET AND OUTLET TRNSITION CONNECTIONS. FAN SHALL BE CONTROLLED VIA SWITCH AND VFD CONTROL PANEL, SHALL BE ENABLED VIA POWER SWITCH.

GAS FIRED UNIT	ŀ
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	MANUFACTURER AND MODEL	-	мвн		WEIGHT	MOTOR					
MARK		CFM	INPUT	оитрит	FUEL	(LBS)	нр	VOLTS	PHASE	REMARKS	
UH-1	MODINE HD45AS0111FBAN	720	38	31	NG	60 LBS	1/15 HP	115	1	HIGH ALTITUDE KIT, SUPPORT FROM STRUCTURE, PIPE HANGER KIT, PROVIDE WITH SAFETY FINGER PI FAN GUARD, VERTICAL DEFELCTOR BLADES, 120V/24V CONTROL TRANSFORMER, SINGLE STAGE DIREC IGNITION, ALUMINIZED STEEL HEAT EXCHANGER/BURNER	

RELIEF LOUVER SCHEDULE												
MARK	MANUFACTURER AND MODEL NUMBER OR PPROVED EQUAL	CFM	APPLICATION	FREE AREA (FT ²)	PRESSURE DROP (IN. WG)	FREE AREA VELOCITY (FT/MIN)	BPWP (FT/MIN)		ZE H (IN)	REMARKS		
RLV-1	GREENHECK EHH-601	7,000	RELIEF / EXHAUST	13.89	0.06	500	1,250	66	62	PROVIDE WTH ALUMINUM INTERNAL INSECT SCREEN, 2" FLANGED FRAME AND MOUNTING ANGLE CLIPS, SHALL BE CONTRUCTED OF ALUMINUM. PROVIDED WTH BAROMETRIC RELIEF DAMPER GREENHECK MODEL BR-30.		

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MARK	MANUFACTURER AND MODEL	CFM	APPLICATION	FREE AREA	PRESSURE DROP	FREE AREA	BPWP	SIZE		REMARKS
MARK	NUMBER OR PPROVED EQUAL	C F M	AFFEICATION	(FT2)	(IN. WG)	VELOCITY (FT/MIN)	(FT/MIN)	W (IN)	H (IN)	REMARKS
LV-1	GREENHECK EHH-601	1,500	INTAKE	3.92	0.05	503	1,250	42	30	PROVIDE WITH ALUMINUM INTERNAL INSECT SCREEN, 2" FLANGED FRAME AND MOUNTING ANGLE CLIPS, SHALL BE CONTRUCTED OF ALUMINUM. PROVIDED WITH BACKDRAFT DAMPER GREENHECK MODEL WD-400.
LV-2	GREENHECK EHH-601	100	INTAKE	2.04	0.05	481	1,250	12		PROVIDE WITH ALUMINUM INTERNAL INSECT SCREEN, 2" FLANGED FRAME AND MOUNTING ANGLE CLIPS, SHALL BE CONTRUCTED OF ALUMINUM. PROVIDED WITH BACKDRAFT DAMPER GREENHECK MODEL WD-400.

HEAT PUMP SPLIT SYSTEM SCHEDULE													
MARK SERVICE CFM ESP SEER						LECTRICA	۱L.	REMARKS					
	OR APPROVED EQUAL			COOLING	DEEK	INPUT	OUTPUT	FUEL	MCA	VOLTS	PHASE	NEDGONE -	
CU-1 FCU-1	DAIKIN FFQ09Q2VJU - (INDOOR) DAIKIN RX09RMVJU9 .75 TON - (OUTDOOR)	BUNKER	378	-	9	20.9	.7 KW	9.7	ELEC.	15	208	1	PROVIDE CASSETTE MOUNTED INDOOR UNIT, FACTORY INSTALED CONDENSATE PUMP, HARD WRED 7 DAY PROGRAMMABLE CONTROLLER, LOW AMBIIENT TO 0 DEGREES, INDOOR POWERED BY OUTDOOR.
CU-2 FCU-2	DAIKIN RK12AXVJU - (OUTDOOR) DAIKIN FTK12AXVJU - (INDOOR)	ELEC ROOM	- 436		12 12	19	-	10.9 10.9	ELEC.	7.8 1	208 208	1	PROVIDE WITH LOW AMBIENT KIT, FACTORY REFRIGERANT LINES, CONDENSATE PUMP, REMOTE CONTROL, WALL MOUNTING BRACKET FOR INDOOR UNIT, AND MOUNTING STAND FOR OUTDOOR UNIT, REMOTE CONTROLLER: BRC944B2-A08
CU-3 FCU-3	DAIKIN RZR18TAVJU - (OUTDOOR) DAIKIN FBQ18PVJU - (INDOOR)	EXTRACTOR, RESP PROTECTION	635		18	16.7	20	19	ELEC.	16.5	208	1	PROVIDE DUCTED MOUNTED INDOOR UNIT, BUILT IN CONDENSATE PUMP, HARD WIRED 7 DAY PROGRAMMABLE CONTROLLER, LOW AMBIIENT TO O DEGREES.

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DIFFUSER AND GRILLE SCHEDULE

HEATER SCHEDULE

CHEDULE

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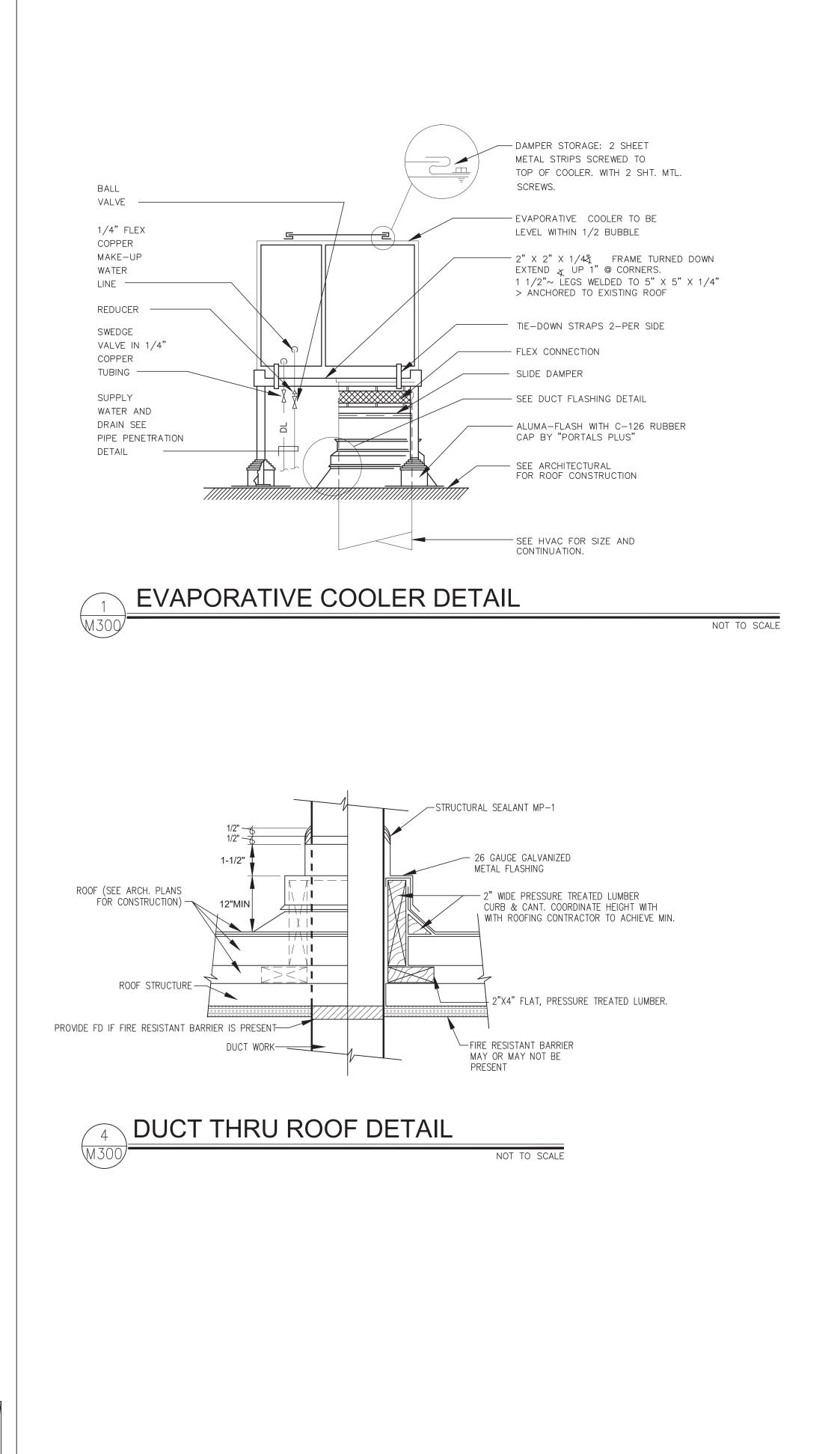


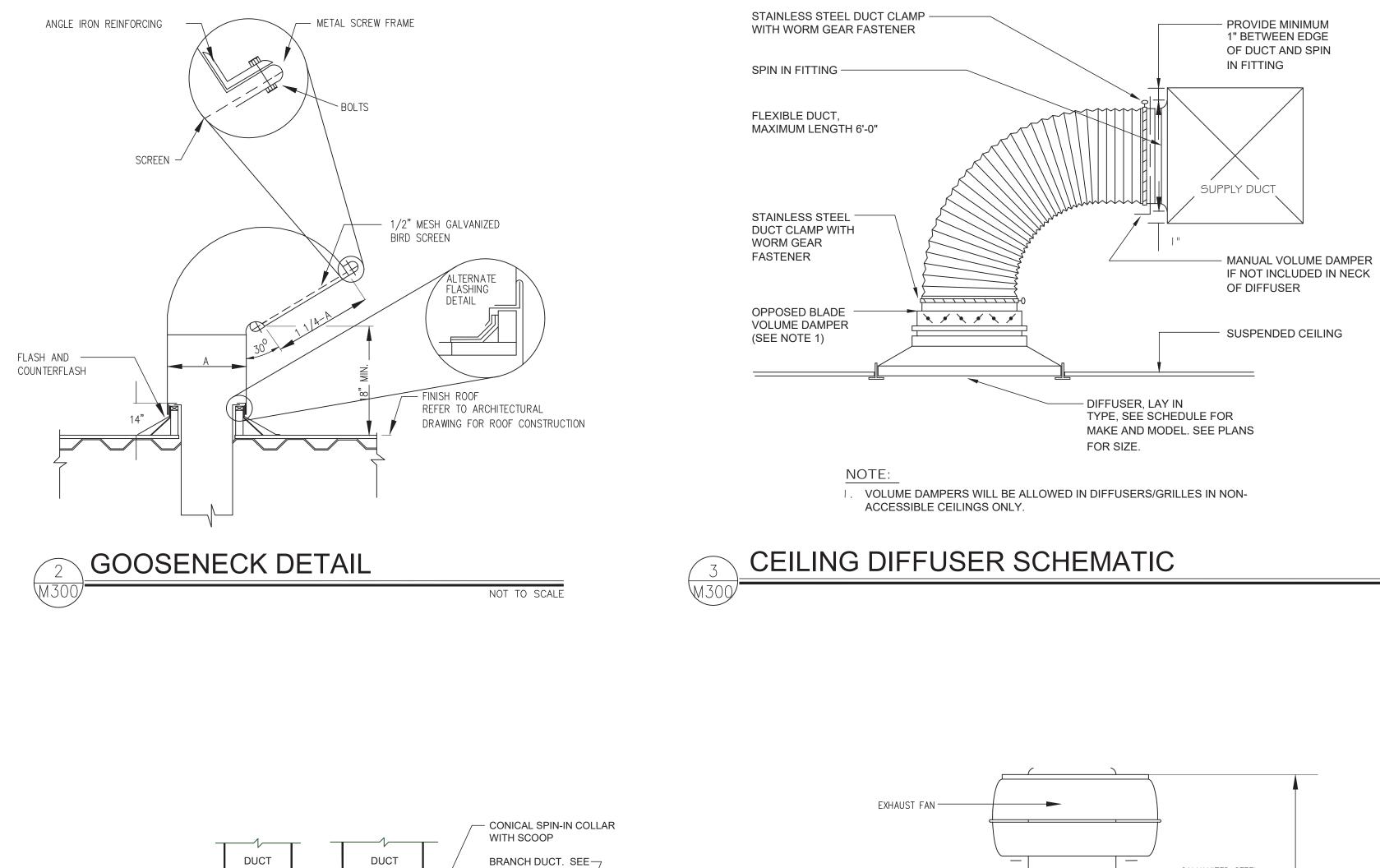
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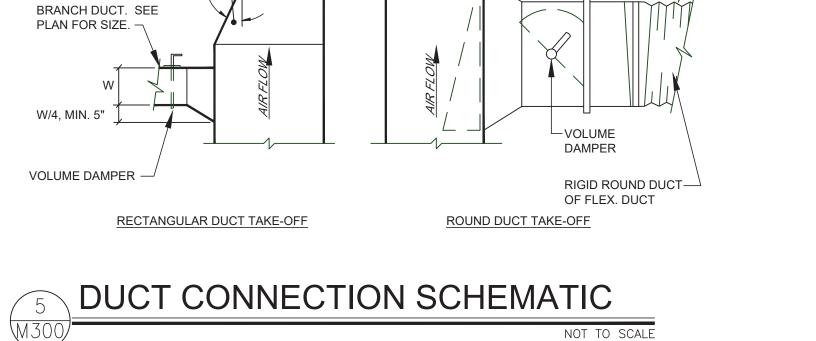
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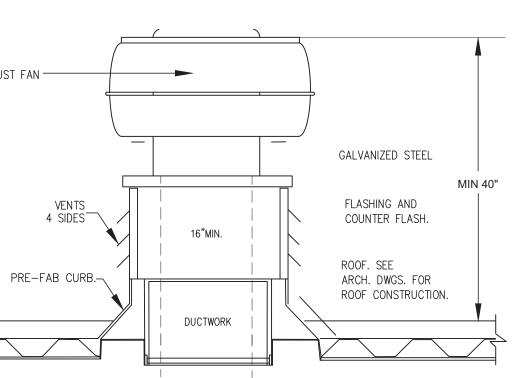


PLAN FOR SIZE.

30° MAX. -



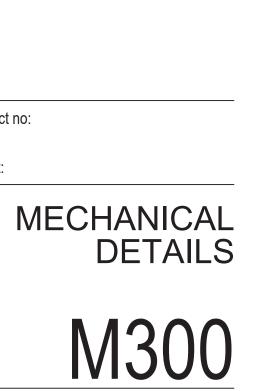
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ROOF OPENING AS REQUIRED SEE FLOOR PLAN FOR SIZE

ROOF EXHAUST FAN SCHEMATIC

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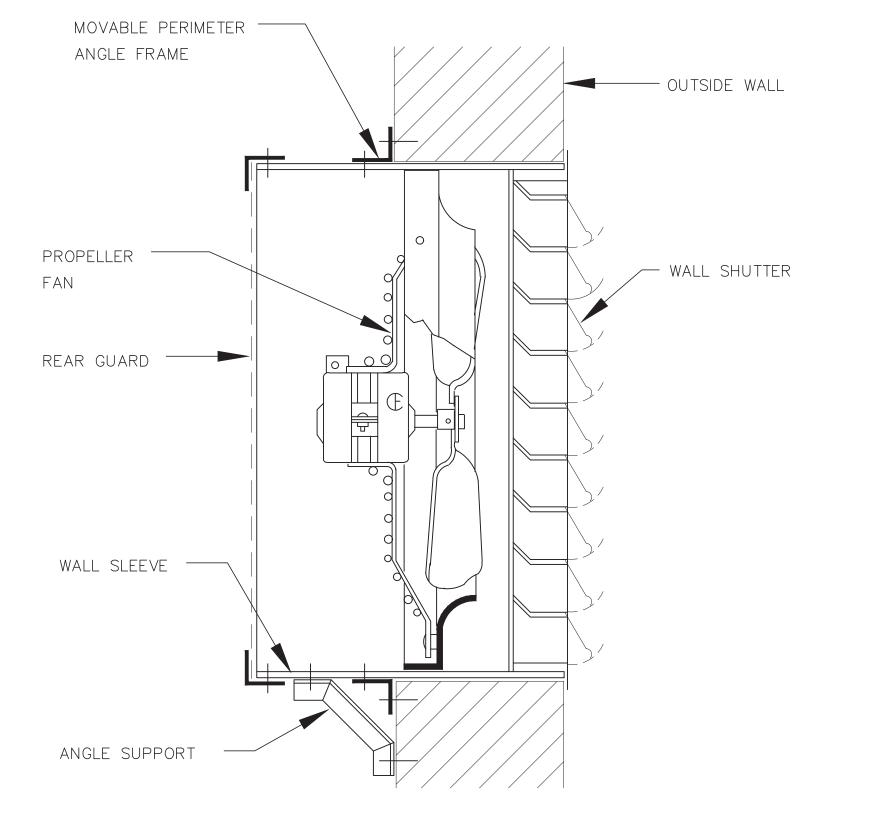
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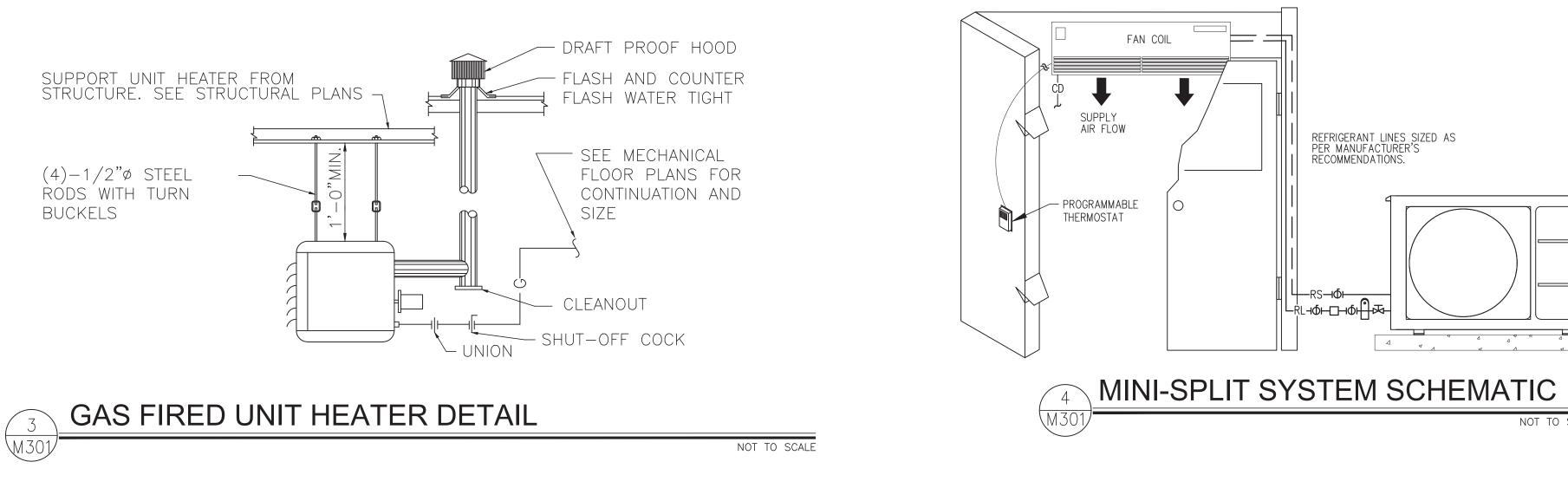
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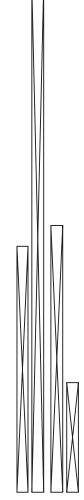
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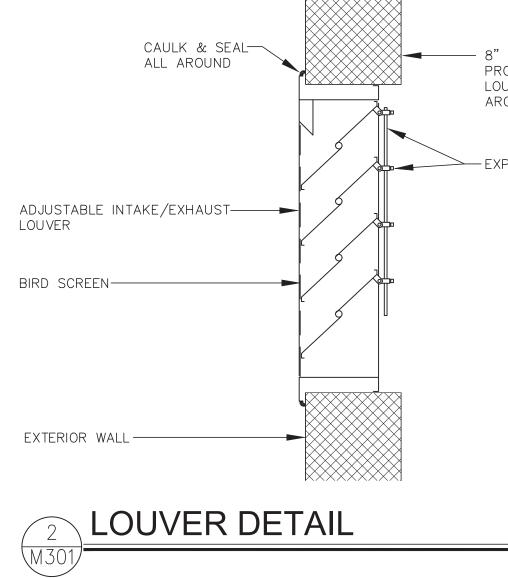






NOT TO SCALE





– 8" CONCRETE BLOCK PROVIDE LINTEL OVER LOUVER AS SHOWN ON ARCHITECTURAL DWG.

>-----EXPOSED LINKAGE

NOT TO SCALE

CONCRETE CONCRETE PAD

NOT TO SCALE

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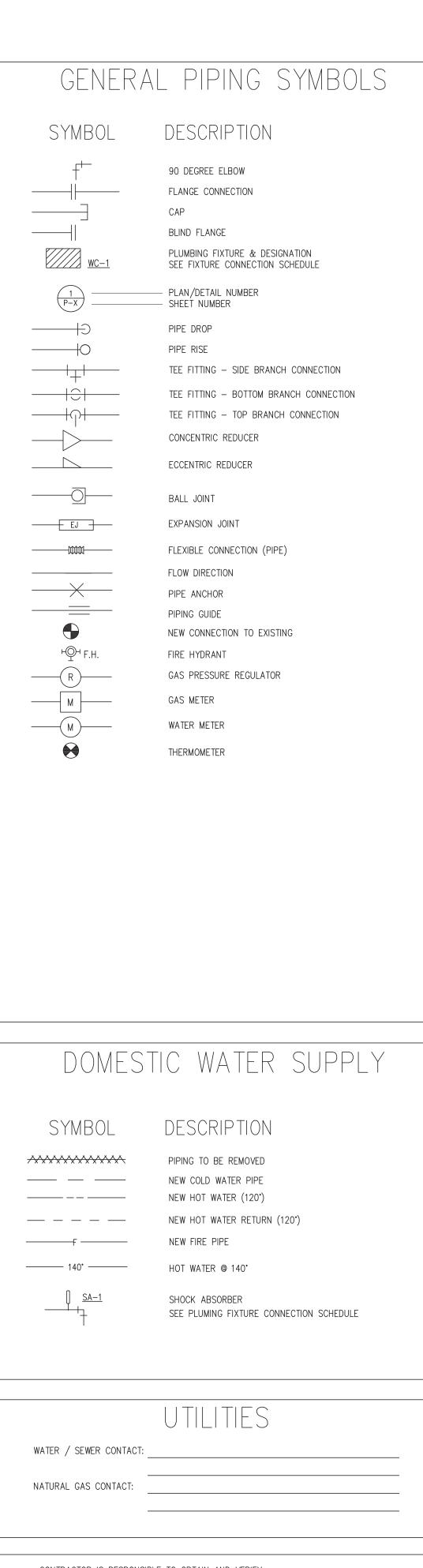
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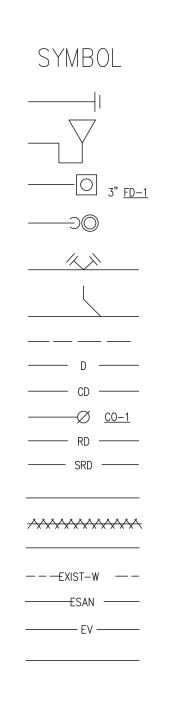


PLUMBING SYMBOLS AND ABBREVIATIONS [SOME SYMBOLS MAY NOT BE USED ON THIS PROJECT]



GENERAL PIPING	SYMBOLS - VALVES
SYMBOL	DESCRIPTION
	VALVE IN BOX
	BALL VALVE
	CHECK VALVE
	GATE VALVE
P&T Z	PRESSURE & TEMP. RELIEF VALVE
	PETE'S PLUG (TYPICAL)
	REDUCED PRESSURE BACK FLOW PREVENTER (RPBP)
	PRESSURE REDUCING VALVE

SANITARY SEWER/WASTE/VENT



SYMBOL

——EXIST-MG ——

——— MG ———

_____G____

S

DESCRIPTION

ESCRIPTION
CLEANOUT
FLOOR DRAIN & P-TRAP (RISER)
FLOOR DRAIN, ROOF DRAIN, OR AREA DRAIN (SIZE & TYPE NOTED)
HUB DRAIN & P-TRAP
2-WAY COUNTERSUNK CLEANOUT PLUGS MOUNT IN CONCRETE PAD FLUSH WITH FINISHED GRADE
SANITARY COMBINATION FITTING
VENT PIPE (PLUMBING)
INDIRECT DRAIN
CONDENSATE DRAIN
FLOOR CLEANOUT
ROOF DRAINAGE
SECONDARY ROOF DRAINAGE
NEW PIPING (WASTE, WATER, ETC)
PIPING TO BE REMOVED
EXISTING PIPING (WASTE, WATER, ETC)(LIGHT LINES)
EXISTING WATER PIPE
EXISTING SANITARY SEWER PIPE
EXISTING VENT PIPE
NEW VENT PIPE

NATURAL GAS

DESCRIPTION

PIPING TO BE REMOVED EXISTING MED PRESS GAS PIPE EXISTING LOW PRESS GAS PIPE GAS (MEDIUM PRESSURE) GAS (LOW PRESSURE PRESSURE) PLUG VALVE

SOLENOID GAS VALVE

CONTRACTOR IS RESPONSIBLE TO OBTAIN AND VERIFY WITH ARCHITECT AND CITY FOR LATEST PLANS

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PLUMBING ABBREVIATIONS

ABBREV.	DESCRIPTION	ABBREV.	DESCRIPTION
ABV	ABOVE	ID	INSIDE DIMENSION
AC	ABOVE CEILING	IE	INVERT ELEVATION (FLOW LINE)
AD	ACCESS DOOR	IN	INCHES
AFF	ABOVE FINISHED FLOOR	INSUL	INSULATION
AP	ACCESS PANEL	IN WG	INCHES OF WATER
APPROX	APPROXIMATE	KW	KILOWATT(S)
ARCH	ARCHITECTURAL	L	LONG, LENGTH
ASME	AMERICAN SOCIETY OF MECHANICAL ENGINEERS	L-#	LAVATORY – REF. PLUMB. FIXT. SCHEDULE
ASTM	AMERICAN SOCIETY FOR TESTING MATERIALS	LB	POUND
AV	ACID VENT	MAX	MAXIMUM
	ACID WASTE	MAX	MECHANICAL
AW			
BHP BLDG	BRAKE HORSEPOWER BUILDING	MIN	MINIMUM
		MS	MOTOR STARTER
BOP	BOTTOM OF PIPE	MTD	MOUNTED
BSMT	BASEMENT	NA	NOT APPLICABLE
BTU	BRITISH THERMAL UNIT	NIC	NOT IN CONTRACT
BW-#	BACKWATER VALVE	NTS	NOT TO SCALE
СА	COMPRESSED AIR	OC	ON CENTER
CC	CENTER TO CENTER	OH	OVERHEAD
CAP.	CAPACITY	PCT	PERCENT
CD	CONDENSATE		
CDP	CONDENSATE DRAIN PUMP	PLBG	PLUMBING
CI	CAST IRON	PRESS	PRESSURE
CLG	CEILING	PRV	PRESSURE REDUCING VALVE
СО	CLEANOUT	PSIG	POUNDS PER SQUARE INCH (GAUGE)
CONN	CONNECTION	PVC	POLYVINYL CHLORIDE
CONT	CONTINUATION	PW-#	PRESSURE WASHER - REF. PLUMB. FIXT. SCHED
CW	COLD WATER	RD	ROOF DRAIN
գ	CENTER LINE	REF: 4/P-500	REFER TO DETAIL 4, SHEET P-500
		REQ'D	REQUIRED
D	DRAIN	RPBP-#	REDUCED PRESSURE BACKFLOW PREVENTER
DCO	DOUBLE CLEANOUT		
DIA	DIAMETER	S-#	SINK – REF. PLUMB. FIXT. SCHEDULE
DN.	DOWN	SCHED.	SCHEDULE
DN-#	DOWNSPOUT NOZZLE	SD	STORM DRAIN
DWG	DRAWING	SEC	SECOND
EA	EACH	SH-#	SHOWER HEAD - REF. PLUMB. FIXT. SCHED.
	EQUAL	SPEC	SPECIFICATION
EQ EQUIP	EQUIPMENT	SP	SUMP PUMP
	EXISTING	SRD	SECONDARY ROOF DRAIN
EXIST		SS	SERVICE SINK/MOP SINK
3" <u>FD-1</u>	3" FLOOR DRAIN TYPE 1	STD	STANDARD
F	DEGREES FAHRENHEIT	STL	STEEL
FCO	FLOOR CLEANOUT	SW	SWITCH
FIXT	FIXTURE		
FF	FINISHED FLOOR	TEMP	TEMPERATURE
FG	FINISHED GRADE	TP-#	TRAP PRIMER - REF. PLUMB. FIXT. SCHED.
FLG	FLANGE	TYP	TYPICAL
FLR	FLOOR	U-#	URINAL – REF. PLUMB. FIXT. SCHED.
		UF	UNDER FLOOR
FM	FACTORY MUTUAL	UG	UNDER GROUND
FPM	FEET PER MINUTE	UL	UNDERWRITERS LABORATORIES
FT	FEET, FOOT	UTIL	UTILITY
FS	FLOOR SINK	VB	VALVE BOX
GA	GAUGE	VCP	VITRIFIED CLAY PIPE
GAL	GALLON	VEL	VELOCITY
GALV	GALVANIZED		
		VOL	VOLUME
GCO	GROUND CLEANOUT	VOLT	VOLTAGE
GPH	GALLONS PER HOUR	VTR	VENT THRU ROOF
GPM	GALLONS PER MINUTE	W	WIDE, WIDTH
GW	GREASE WASTE	WB-#	WASHER BOX - REF. PLUMB. FIXT. SCHED.
GV	GREASE VENT	WD-#	WATER DEVICE – REF. PLUMB. FIXT. SCHED.
H	HIGH, HEIGHT	W/	WITH
HB-#	HOSE BIBB – REF. PLUMB. FIXT. SCHED.	W/0	WITHOUT
HP	HORSEPOWER	WC-#	WATER CLOSET - REF. PLUMB. FIXT. SCHED.
HR	HOUR	WCO	WALL CLEANOUT
HTR	HEATER	WD-#	WATERING DEVICE - REF. PLUMB. FIXT. SCHEDUL
HWRP	HOT WATER RECIRCULATING PUMP	WH <i>-</i> #	WATER HEATER - REF. PLUMB. FIXT. SCHED.
HZ	HERTZ		
		WS-#	WATER SOFTENER - REF. SPECIFICATIONS
		WTD-#	WIDE TRENCH DRAIN - REF. PLUMB. FIXT. SCHE
		WTR	WATER

PLUMBING GENERAL NOTES

- NOTE: FOR THE PURPOSE OF CLEARNESS AND LEGIBILITY, THE DRAWINGS ARE ESSENTIALLY DIAGRAMMATIC AND ALTHOUGH SIZES AND LOCATIONS OF EQUIPMENT ARE DRAWN TO SCALE WHEREVER POSSIBLE, THE CONTRACTOR SHALL MAKE USE OF ALL DATA IN ALL OF THE CONTRACT DOCUMENTS AND VERIFY THIS INFORMATION PRIOR TO ORDERING, FABRICATING OR INSTALLING ANY MATERIALS. . THE PLUMBING SYSTEM DESIGN, INSTALLATION AND MATERIALS SHALL CONFORM TO ALL FEDERAL, STATE AND LOCAL CODES AND
- AUTHORITIES HAVING JURISDICTION. 3. PLUMBING QUALITY, WEIGHTS OF MATERIALS AND ALTERNATE METHODS OF CONSTRUCTION SHALL CONFORM TO THE APPLICABLE
- PLUMBING CODES, WITH LOCAL JURISDICTION CODE AMENDMENTS. 4. CONTRACTOR SHALL COORDINATE ALL WORK SHOWN ON THESE DRAWINGS AND SPECIFICATIONS WITH ALL DISCIPLINES AND TRADES PRIOR TO SUBMITTAL OF BID AND INSTALLATION OF SYSTEM.
- . CONTRACTOR SHALL VISIT SITE PRIOR TO BID TO VERIFY ALL EXISTING CONDITIONS, INCLUDE IN BID THE RELOCATION OF ALL EXISTING UTILITIES THAT WILL OBSTRUCT NEW CONSTRUCTION. INCLUDE IN BID ALL DEVELOPMENT FEES, DEPOSITS, MEASURING DEVICE FEES, AND ALL OTHER FEES RELATED TO THE ESTABLISHMENT OF UTILITY SERVICES FOR THE NEW STRUCTURE. 6. CONTRACTOR SHALL MAKE ALL ARRANGEMENTS WITH UTILITY COMPANIES FOR SERVICE AND CONNECTIONS AND SHALL PAY FOR ALL
- FEES, CHARGES, PERMITS AND METERS. . THE PLUMBING CONTRACTOR SHALL GUARANTEE ALL MATERIALS AND LABOR (INCLUDING THE COMPLETE PLUMBING SYSTEM) FOR A PERIOD OF ONE YEAR FROM WRITTEN ACCEPTANCE BY THE TENANT. ANY DEFECTS IN MATERIALS AND OR LABOR FOUND WITHIN THE
- GUARANTEE PERIOD SHALL BE REMEDIED OR REPAIRED BY THIS CONTRACTOR IN A TIMELY FASHION, AT NO COST TO THE TENANT 8. CONTRACTOR TO FIELD VERIFY INVERT ELEVATION OF EXISTING GREASE WASTE AND SANITARY SEWER BEFORE COMMENCING ANY WORK. 9. ALL PLUMBING FIXTURE LOCATIONS (WATER CLOSETS, LAVATORIES ETC.) ARE DIAGRAMMATIC. CONTRACTOR SHALL REFER TO FOOD
- SERVICE AND ARCHITECTURAL DRAWINGS FOR EXACT PLACEMENT AND MOUNTING HEIGHTS. 10. ANY DEVIATIONS FROM THE DRAWINGS OR SPECIFICATIONS SHALL BE BROUGHT TO THE ATTENTION OF THE ARCHITECT AND ENGINEER
- PRIOR TO INSTALLATION. 11. CONTRACTOR SHALL VISIT SITE PRIOR TO SUBMITTAL OF BID AND FAMILIARIZE HIMSELF WITH EXISTING CONDITIONS. SUBMITTAL OF BID WILL VERIFY THAT THE CONTRACTOR HAS VISITED THE SITE.
- 12. PIPING SHALL BE INSTALLED PARALLEL TO BUILDING LINES AND SUPPORTED AND ANCHORED AS REQUIRED TO FACILITATE EXPANSION AND CONTRACTION. THE INSTALLATION SHALL MEET ALL CONSTRUCTION CONDITIONS AND ALLOW FOR THE INSTALLATION OF OTHER TRADES.
- 13. SUPPORT PIPING WITH CLEVIS OR SPLIT RING TYPE PIPE HANGERS WITH 3/8" ALL THREAD ROD AND BEAM CLAMPS. "PLUMBERS TAPE AND WIRE" NOT PERMITTED.
- 14. TRAP SEALS FOR FLOOR DRAINS AND FLOOR SINKS AND WATER HAMMER ARRESTORS TO BE INSTALLED AS PER APPLICABLE PLUMBING CODES, WITH LOCAL JURISDICTION CODE AMENDMENTS AND THE LATEST EDITION OF THE AMERICAN SOCIETY OF SANITARY ENGINEERING (ASSE 1010) SIZING AND INSTALLATION REQUIREMENTS.
- 15. ALL VALVES, TRAP PRIMERS, WATER HAMMER ARRESTORS OR OTHER EQUIPMENT SHOWN IN WALLS OR ABOVE NON-ACCESSIBLE
- CEILINGS SHALL BE INSTALLED BEHIND AN ACCESS PANEL. 16. ALL SERVICE WATER HEATING EQUIPMENT TO BE IN COMPLIANCE WITH THE APPLICABLE PLUMBING CODES, WITH LOCAL JURISDICTION CODE AMENDMENT REQUIREMENTS AND LABELED AS SUCH.
- 17. ALL ITEMS PROJECTING THROUGH THE ROOF SHALL BE FLASHED THROUGH CURBS OR PIPE SEALS A MINIMUM OF 12" ABOVE THE ROOF. THE PIPE CURBS AND SEALS SHALL BE INSTALLED BY THE ROOFING CONTRACTOR. ENSURE THAT AMPLE BOOT OPENINGS ARE PROVIDED TO ACCOMMODATE ANY ELECTRICAL CONDUIT PENETRATIONS REQUIRED FOR POWER.
- 18. CONTRACTOR SHALL PROVIDE: FAUCETS, TRAPS, STOPS, BALL VALVES, BACKFLOW DEVICES FOR KITCHEN EQUIP. GASCOCKS, WATER HAMMER ARRESTORS, CLEANOUT COVERS AND INDIRECT WASTE TO AN APPROVED RECEPTOR AND ALL NECESSARY TRIM FOR A COMPLETELY CONNECTED PLUMBING SYSTEM. (SEE SCHEDULES).
- 19. ALL CLEANOUTS SHALL BE INSTALLED WHERE READILY ACCESSIBLE AND LOCATED AS PER CODE REQUIREMENTS. THE CONTRACTOR SHALL COORDINATE ALL CLEAN OUT LOCATIONS WITH EQUIPMENT, MILLWORK, ETC., PRIOR TO INSTALLATION. 20. ALL PLUMBING FIXTURE VENTS TO TERMINATE A MINIMUM OF 12 INCHES FROM ANY VERTICAL SURFACE AND 10'-O" FROM OR 3'-O" ABOVE ANY MECHANICAL EQUIPMENT OUTSIDE AIR INTAKE.
- 21. ALL VALVES, UNIONS, ETC. TO BE SAME SIZE AS CONNECTED SUPPLY LINE UNLESS OTHERWISE NOTED ON DRAWINGS.
- 22. UNIONS SHALL BE PROVIDED AND INSTALLED AFTER EACH SCREW-TYPE VALVE AND PRIOR TO EQUIPMENT CONNECTIONS. 23. PIPING SHALL BE INSTALLED COMPLETE WITH DIELECTRIC UNIONS BETWEEN CONNECTIONS OF NON-FERROUS MATERIALS.
- 24. PROVIDE DIELECTRIC INSULATION FOR COPPER PIPE ANYWHERE IT CONTACTS DISSIMILAR METAL. THIS INCLUDES THE WATER HEATER CONNECTIONS. 25. PROVIDE ACCESSIBLE WATER SUPPLY STOP VALVE(S) AT EACH PLUMBING FIXTURE.
- 26. PROVIDE A LINE SIZED PRESSURE REDUCING VALVE AT THE BUILDING SERVICE CONNECTION SHOULD THE SUPPLY PRESSURE EXCEED 80 PSI.
- 27. ALL UNDERGROUND METALLIC PIPE AND FITTINGS SHALL BE PROTECTED IN ACCORDANCE WITH THE SOILS ENGINEER'S RECOMMENDATIONS. 28. NO PIPING SHALL BE DIRECTLY EMBEDDED IN CONCRETE, MASONRY WALLS, OR CONCRETE FOOTINGS.
- 29. THE PLUMBING CONTRACTOR SHALL COORDINATE ALL REQUIREMENTS FOR ALL POINTS OF CONNECTION WITH THE GENERAL CONTRACTOR AND OTHER TRADES PRIOR TO START OF WORK. 30. VERIFY EXACT LOCATIONS, DEPTH AND SIZE OF ALL PIPING TO WHICH CONNECTIONS ARE REQUIRED. COORDINATE ALL CONNECTIONS
- WITH SITE CONDITIONS AND SITE UTILITY CONTRACTOR/ REPRESENTATIVE. 31. CONTRACTOR SHALL BE RESPONSIBLE FOR THE COMPLETE INSTALLATION OF ALL WORK RELATED TO PLUMBING UTILITIES INCLUDING: TRENCHING, BACKFILL, SUPPORTS, CLEAN-OUT PADS, SERVICE VALVES AND BOXES, SERVICE LINES, TESTING, CLEANING, AND
- STERILIZING. 32. ALL HORIZONTAL PIPING LINES EXTENDED AND CONNECTED TO EQUIPMENT SHALL BE RUN AT THE HIGHEST POSSIBLE ELEVATIONS AND NOT LESS THAN 6" ABOVE THE FLOOR TO PROVIDE CLEARANCE FOR CLEANING.
- 33. ALL CUTTING OF EXISTING PAVING, WALKS AND/OR FLOORS SHALL UTILIZE MACHINE SAW CUTTING EQUIPMENT. HOLES FOR PIPES IN CONCRETE WALLS OR FLOORS SHALL UTILIZE CORE DRILLING EQUIPMENT. COORDINATE WITH ARCHITECTURAL DETAILS FOR FLOOR
- CUTTING AND PATCHING. 34. THE PLUMBING CONTRACTOR IS TO PROVIDE ALL ADDITIONAL STEEL, HANGER MATERIALS, RODS AND CLAMPS AS REQUIRED FOR COORDINATION WITH WORK OF OTHER TRADES.
- 35. PIPING LAYOUT IS SCHEMATIC ONLY, EXACT ROUTING AND INSTALLATION OF PIPES TO BE COORDINATED WITH THE BUILDING STRUCTURE AND THE WORK OF OTHER CONTRACTORS. NO WATER OR DRAIN LINES ARE PERMITTED TO BE INSTALLED OVER OR UNDER ELECTRICAL PANELS.
- 36. NO LIQUID TRANSMISSION PLUMBING PIPING SHALL BE INSTALLED ABOVE ELECTRICAL SWITCH GEAR, EQUIPMENT, OR PANELS. MAKE ADJUSTMENTS NECESSARY TO REROUTE PIPING FOR ACTUAL INSTALLATION OF ELECTRIC EQUIPMENT.
- 37. WHENEVER FOUNDATION WALLS, EXTERIOR WALLS, ROOFS, ETC. ARE PENETRATED FOR THE INSTALLATION OF PLUMBING SYSTEMS, THEY SHALL BE PATCHED TO MATCH EXISTING CONSTRUCTION AND SEALED WEATHER TIGHT. 38. ANY EXPOSED PIPING IN GUEST OR PUBLIC AREAS SHALL BE PAINTED TO MATCH THE WALL COLOR. ANY EXPOSED GAS PIPING IN
- KITCHENS SHALL BE PAINTED WHITE. 39. DURING THE PROGRESS OF THE WORK, MAINTAIN AN ACCURATE RECORD OF ALL CHANGES MADE IN THE PLUMBING SYSTEMS. THE
- RECORD DRAWING SHALL SHOW CHANGES IN MANUFACTURER (WITH NUMBERS AND TRADE NAMES). MATERIALS, SIZES, LOCATIONS AND HOOK-UP POINTS. AS-BUILTS SHALL BE GIVEN TO OWNER'S CONSTRUCTION MANAGER AT COMPLETION OF JOB. 40. UPON COMPLETION OF JOB, THIS CONTRACTOR SHALL INSPECT ALL EXPOSED PORTIONS OF THE PLUMBING INSTALLATION AND
- COMPLETELY REMOVE ALL EXPOSED LABELS, SOIL, MARKINGS AND FOREIGN MATERIAL EXCEPT PRODUCT LABELS AND THOSE REQUIRED BY LAW. 41. PLUMBING CONTRACTOR SHALL BE ON SITE AND PRESENT AT THE DATE OF THE PROJECT TURNOVER.
- 42. PLUMBING CONTRACTOR SHALL PROVIDE MANUFACTURER'S OPERATION LITERATURE FOR ALL INSTALLED EQUIPMENT AND FIXTURES AT THE DATE OF PROJECT TURNOVER.
- 43. ALL PLUMBING FIXTURES SHALL MEET AND BE INSTALLED AT DIMENSIONS REQUIRED BY ACCESSIBILITY STANDARDS FOR HANDICAPPED PERSONS. 44. ANY PLASTIC PIPING (PVC PIPE) LOCATED IN A RETURN CEILING SPACE (OPEN CEILING) OR PLENUM SHALL BE ENCLOSED IN GPB OR
- WRAPPED WITH 3M FIREMASTER BLANKET OR UL910 STANDARD COVER. 45. ALL UNDERGROUND WATER PIPING SHALL BE SOFT COPPER PIPING. THERE SHALL NOT BE ANY UNDERGROUND JOINT FITTINGS.
- 46. ALL DENTAL SPECIALTY PIPING SHALL BE COPPER PIPING.
- 47. DENTAL SPECIALTY PIPING SHALL BE INSTALLED BY A CERTIFIED MED GAS INSTALLER WITH 5 YEARS EXPERIENCE. 48. ALL PIPING IN FINISHED ROOMS OR SPACES SHALL BE CONCEALED IN FURRED CHASES OR INSTALLED ABOVE SUSPENDED CEILING UNLESS NOTED DIFFERENT.
- 49. ALL FLOOR BRANCHES OFF PIPE RISERS SHALL BE PROVIDED W/ SHUT OFF VALVES AND CAPPED DRAIN CONNECTION.
- 50. INSULATED PIPEWORK SHALL BE INSTALLED SO THAT FULL THICKNESS INSULATION CAN BE APPLIED TO EACH PIPE.
- 51. ALL PIPING INSTALLED ON THE ROOF MUST BE SUPPORTED, WITH PIPE SUPPORTS EVERY 10'-00". PIPE SUPPORT TO BE DURA-BLOCK, CONTRACTOR TO PROVIDED SIZED AND ACCESSORIES REQUIRED. 52. TYPICAL DETAILS AND NOTES SHALL APPLY, THOUGH NOT NECESSARILY INDICATED AT A SPECIFIC LOCATION ON PLANS. WHERE NO DETAILS ARE SHOWN, CONSTRUCTION SHALL CONFORM TO SIMILAR WORK ON THE PROJECT. DETAILS MAY SHOW ONLY ONE SIDE OF
- CONNECTION OR MAY OMIT INFORMATION FOR CLARITY. 53. NOTES AND DETAILS ON DRAWINGS SHALL TAKE PRECEDENCE OVER GENERAL STRUCTURAL NOTES AND TYPICAL DETAILS.

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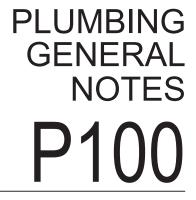
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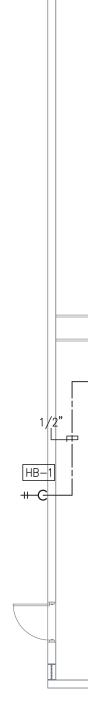
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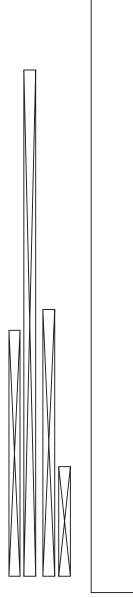


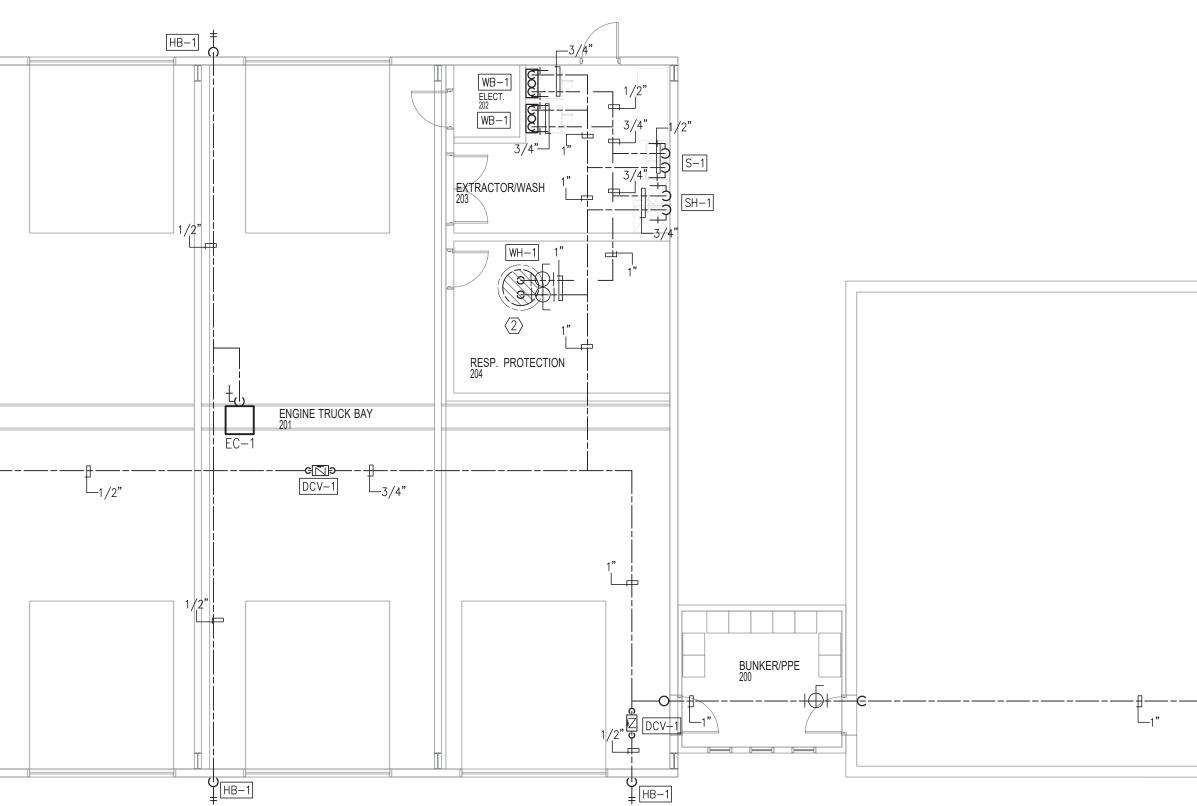
KEYED NOTES 🛞

- 1. POINT OF CONNECTION PLUMBING CONTRACTOR TO CONNECT NEW DOMESTIC WATER LINES TO EXISTING 1-1/2" WATER MAIN LINE. FIELD VERIFY EXACT LOCATION OF EXISTING SERVICE WATER MAIN LINE PRIOR TO COMMENCING ROUGH IN WORK.
- 2. WATER HEATER TO BE LOCATED ON MEZZANINE LEVEL.



		PLUME	BING	FIX	TUF	RE 8	BCHEDULE
		MANUFACTURER AND	ROUGH	IN RE	QUIREM		
MARK	DESCRIPTION	MODEL NUMBER OR Approved Equal	DRAIN	VENT	COLD	нот	
S-1	COMMERCIAL KITCHEN SINK STAINLESS STEEL 2 COMPARTMENT	REGENCY 600S21515G	3"	2"	3/4"	3/4"	SINK: 37"L X 20-1/2"W x 43-3/4"H, 16 AND TWO 3-1/2"BASKET STRAINER REGENCY WALL MOUNT FAUCET REGENCY STRAINER 600DB35
WB-1	WASHER BOX	OATEY CENTRO II 38154	2"	1-1/4"	3/4"	3/4"	BOX: 2 INCH HUBS 1/4 TURN, COP PACK.
HB-1	WALL HYDRANT WALL MOUNTED	ZURN Z1345	ie.		3/4"	-	HYDRANT: ZURN MODEL Z1345 EX FAUCET, EXTERIOR CHROME FINIS OPERATION.
FS-1	FLOOR SINK	ZURN Z1752	LINE SIZED	LINE SIZED	-	-	SINK: ZURN MODEL Z1752 12" x 12 FULL GRATE WITH 1/2" SQUARE O
TD-1	TRENCH DRAIN	ZURN Z886-HD	LINE SIZED	LINE SIZED			DRAIN: ZURN MODEL Z886, 6-1/4" \ DGC (DUCTILE IRON SLOTTED GR
OSI-1	OIL & SOLIDS INTERCEPTOR ACID RESISTANT STEEL	MIFAB MFO-5	4"	2"	-		INTERCEPTOR: MIFAB MODEL MI- STEEL OIL INTERCEPTOR. INCLUD DEEP SEAL TRAP COVERED BY LI BAFFLE ASSEMBLY AND CROSS E RELIEF BY-PASS, ADJUSTABLE AL EACH SIDE, AND STEEL POWDER HEAVY DUTY TRAFFIC COVER. DIM PROVIDED BY OTHERS.
MXV-1	MIXING VALVE	ZURN ZW1070-XL	1		LINE	LINE SIZED	ZURN MODEL ZW1070-XL AQUA-G
FCO	FLOOR CLEANOUT	ZURN ZN1400-BZ1	2" TO 4"	-	1 1 -11	a -)	ZURN MODEL Z1400-BZ1 CLEANO GAS AND WATERTIGHT THREADE SCORIATED COVER.
WCO	WALL CLEANOUT	ZURN Z-1446	2" TO 4"	-		•	ZURN MODEL Z1446 CLEANOUT, E TAPERED PLUG, AND ROUND, SM SCREW.
GCO	GRADE CLEANOUT	ZURN Z-1402-HD	2" TO 4"	-	-	-	ZURN MODEL Z1402-HD TUF-TOP IRON BODY, WITH GAS AND WATE CAST IRON HEAVY-DUTY SECURE
SH-1	SHOWER ENCLOSURE	DREAMLINE DLT-11-32540	2"	2"	3/4"	3/4"	ACRYLICSHOWER BASE CENTER KTS396-4-CP, WITH KOHLER MODE PROVIDE SHOWER ARM 2 WAY DIV G164SSH.
DCV-1	DUAL CHECK VALVE	ZURN 700XL	-	-	LINE SIZED	LINE SIZED	ZURN MODEL 700XL FOR LEAD-FR WATER LINES TO PROTECT AGAIN WATER INTO THE POTABLE WATE
WH-1	WATER HEATER NATURAL GAS (ATMOSPHERIC) 100 GALLON TANK	BRADFORD WHITE LG2100H803N	-	÷	1-1/4"	1-1/4"	80,000 BTUH INPUT, 115/1Ø. 78 GPH RECOVERY RATE AT 100°F WATER SHALL BE GLASS-LINED W ANTIMICROBIAL TECHNOLOGY TH. RANGE OF 1,600°F.
DGCO	DOUBLE GRADE CLEANOUT	ZURN Z-1402-HD	2" TO 4"	-	-	-	ZURN MODEL Z1402-HD TUF-TOP IRON BODY, WITH GAS AND WATE CAST IRON HEAVY-DUTY SECURE





ACCESSORIES

(20-1/2"W x 43-3/4"H, 16 GAUGE STAINLESS STEEL, TWO 3-1/2" IPS DRAIN CONNECTIONS 3-1/2"BASKET STRAINERS INCLUDED. WALL MOUNT FAUCET 600FW88GLL.

STRAINER 600DB35

HUBS 1/4 TURN, COPPER, HAMMER ARRESTOR INCLUDED, ASSEMBLED, CONTRACTOR

ZURN MODEL Z1345 EXPOSED NON-FREEZE ANTI-SIPHON DRAINING WALL XTERIOR CHROME FINISH, BRASS CASING, ALL BRONZE INTERIOR PARTS AND HAND

MODEL Z1752 12" x 12" x 10" DEEP, 16 GAGE, STAINLESS STEEL TYPE 304, LOOSE SET E WITH 1/2" SQUARE OPENINGS. RN MODEL Z886, 6-1/4" WIDE; MODULAR 80" CHANNEL DRAIN. PROVIDE WITH STANDARD

CTILE IRON SLOTTED GRATE - CLASS C) TOR: MIFAB MODEL MI-O-5, POWDER EPOXY COATED INSIDE AND OUTSIDE, 10 GAUGE

INTERCEPTOR. INCLUDE: SEDIMENT BUCKET WITH PERFORATED BAFFLE NEAR INLET, . TRAP COVERED BY LID, SEWER GAS STOPPER, SECURING BOLT(S), REMOVABLE SEMBLY AND CROSS BAR, STAINLESS STEEL CALIBRATED ORIFICE PLATE, INTERNAL AIR

PASS, ADJUSTABLE AUTOMATIC DRAW-OFF ASSEMBLY, DOUBLE VENT CONNECTION ON , AND STEEL POWDER EPOXY COATED NON SKID RECTANGULAR LID. PROVIDE WITH JTY TRAFFIC COVER. DIMENSIONS: 51"L x 36"W x 36"H. INSTALL IN CONCRETE VAULT BY OTHERS.

DEL ZW1070-XL AQUA-GARD THERMOSTATIC MIXING VALVE, WITH BRONZE BODY AND MOUNTING HOLES. TEMPERATURE ADJUSTMENT FROM 95-115°F. DEL Z1400-BZ1 CLEANOUT, DURA-COATED CAST IRON BODY WITH BOTTOM OUTLET, WITH

NATERTIGHT THREADED ABS TAPERED PLUG AND TOP ASSEMBLY. "TYPE B" LIGHT DUTY D COVER. DEL Z1446 CLEANOUT, DURA-COATED CAST IRON BODY, GAS AND WATERTIGHT ABS

PLUG, AND ROUND, SMOOTH STAINLESS STEEL WALL ACCESS COVER WITH SECURING

DEL Z1402-HD TUF-TOP NON ADJUSTABLE FLOOR CLEANOUT WITH DURA-COATED CAST , WITH GAS AND WATERTIGHT ABS TAPERED THREADPLUG, AND ROUND SCORIATED HEAVY-DUTY SECURED COVER AND FRAME.

IOWER BASE CENTER DRAIN SINGLE THRESHOLDSHOWER TRIM KIT KOHLER MODEL CP, WITH KOHLER MODEL K8304 VALVE AND AWAKEN B90 HANDHELD SHOWER KIT. HOWER ARM 2 WAY DIVERTER MODEL K76331 AND EMERGECNY SHOWER HEAD

DEL 700XL FOR LEAD-FREE APPLICATIONS, DESIGNED FOR INSTALLATION ON POTABLE IES TO PROTECT AGAINST BOTH BACKSIPHONAGE AND BACKPRESSURE OF POLLUTED TO THE POTABLE WATER SUPPLY. H INPUT, 115/1Ø.

COVERY RATE AT 100°F RISE. ALL INTERNAL SURFACES OF THE TANK EXPOSED TO IALL BE GLASS-LINED WITH VITRAGLAS® VITREOUS ENAMEL WITH MICROBAN® DBIAL TECHNOLOGY THAT HAS BEEN FUSED TO STEEL BY FIRING AT A TEMPERATURE 1,600°F.

EL Z1402-HD TUF-TOP NON ADJUSTABLE FLOOR CLEANOUT WITH DURA-COATED CAST , WITH GAS AND WATERTIGHT ABS TAPERED THREADPLUG, AND ROUND SCORIATED HEAVY-DUTY SECURED COVER AND FRAME.

DOMESTIC WATER PLUMBING PLAN P200 1/8" = 1'-0"

PROPOSED WATER SUPPLY FIXTURE UNITS TABLE NUMBER OF SUPPLY TOTAL WSFU TROL FIXTURES COLD HOT TOTAL 0 1.4 1.4 1 1 1.4 1 2.5 2.5 3.5 5 2.25 2.25 3 1 3 3 3 4.2 6 6 8 2

FIXTURE	OCCUPANCY	TYPE OF S	
Dishwashing machine	Private	Automatic	
Kitchen sink	Private	Faucet	
Lavatory	Private	Faucet	
Service sink	Offices, etc.	Faucet	
Shower head	Private	Mixing valve	
Washing machine (15lb)	Public	Automatic	
Water closet	Private	Flush tank	
		TOTALS	

EXISTING WATER SUPPLY FIXTURE UNITS TABLE

EIXTURE		TYPE OF SUPPLY	NUMBER OF	TO	TAL WS	FU			
FIXTURE	OCCUPANCY	CONTROL	FIXTURES	COLD	Нот	TOTAL			
Dishwashing machine	Private	Automatic	1	0	1.4	1.4			
Kitchen sink	Private	Faucet	1	1	1	1.4			
Lavatory	Private	Faucet	3	1.5	1.5	2.1			
Service sink	Offices, etc.	Faucet	1	2.25	2.25	3			
Shower head	Private	Mixing valve	2	2	2	2.8			
Water closet	Private	Flush tank	3	6.6	0	6.6			
		TOTALS	11	13.35	8.15	17.3		Total GPM	
							Cold	Hot	Tota
							16.7	12.9	18.6

1 POC -ECW-

6.6 0 6.6 3 21.35 16.15 28.1 Total GPM 16 Cold Hot Total 20.2 18.1 22.9

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DOMESTIC WATER PLUMBING PLAN



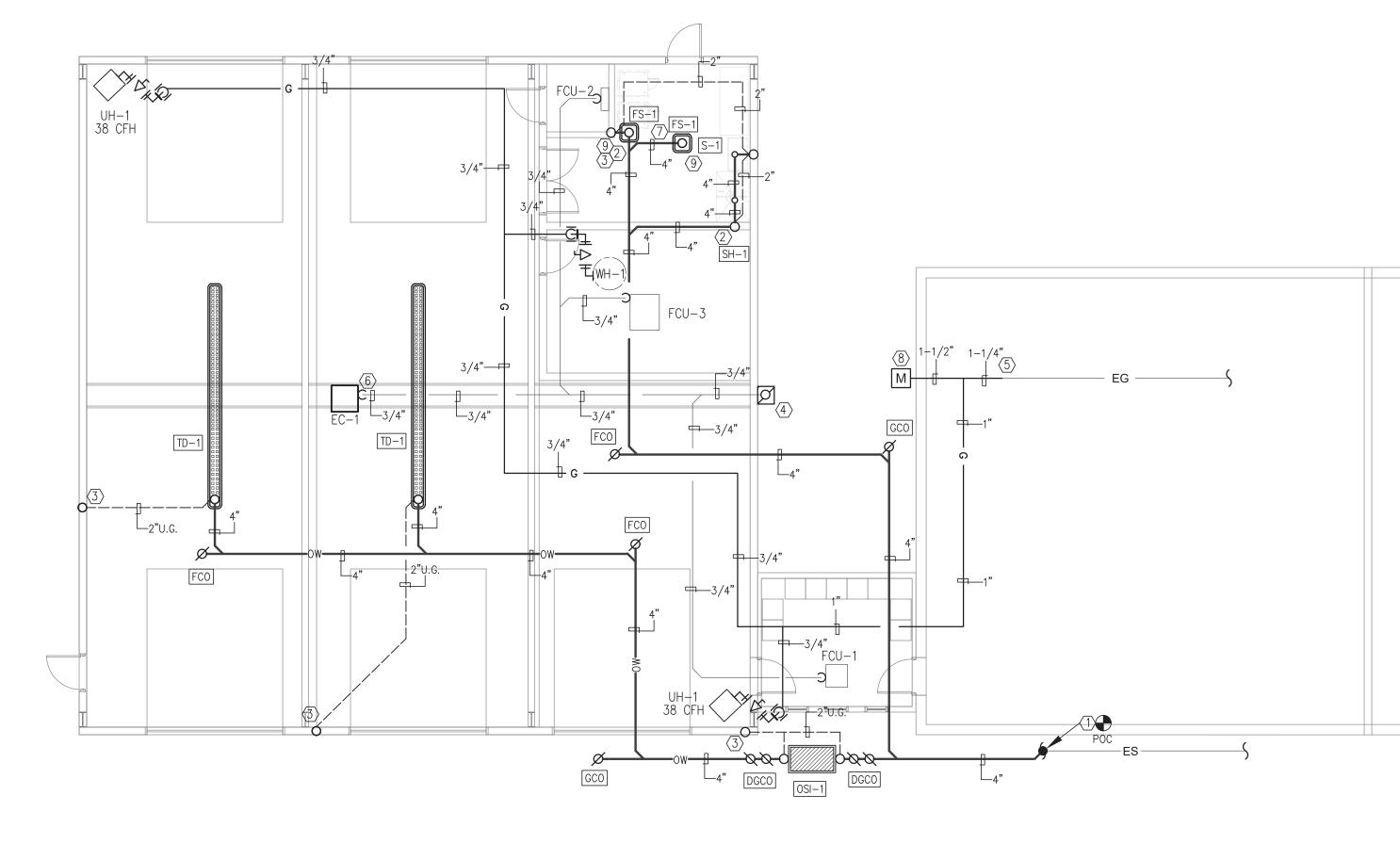
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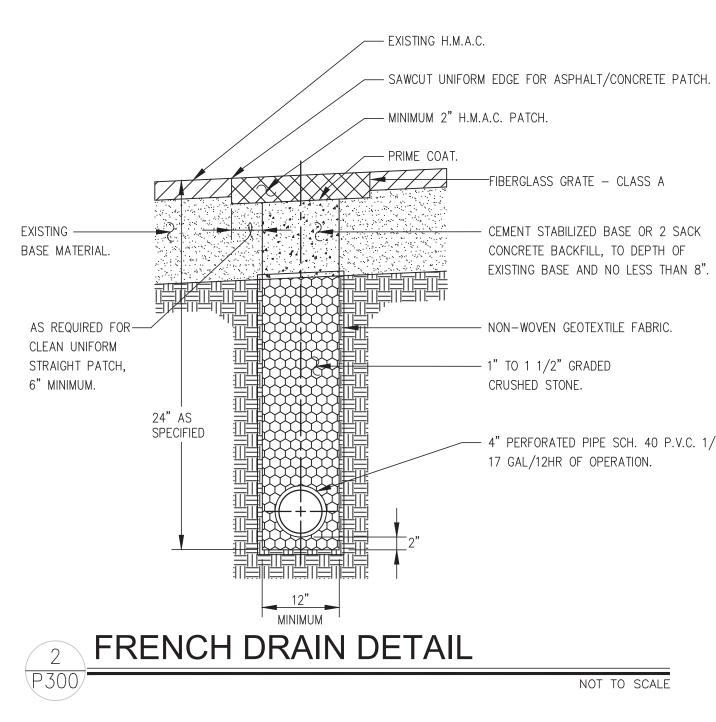
KEYED NOTES 🐼

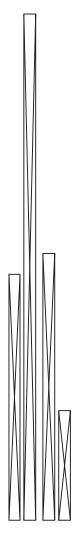
- 1. POINT OF CONNECTION PLUMBING CONTRACTOR TO CONNECT NEW WASTE LINE TO EXISTING SEWER MAIN LINE. FIELD VERIFY EXACT INVERT AND LOCATION OF EXISTING SEWER MAIN LINE PRIOR TO COMMENCING ROUGH IN WORK.
- 2. PROVIDE FULL SIZE CLEANOUT.
- 3. PROVIDE 2"Ø VENT THROUGH ROOF.
- 4. EXTEND AND DISCHARGE FULL SIZE DRAIN FROM CONDENSATE UNITS DOW TO FRENCH DRAIN. REFER TO DETAILS 2/P300 & 3/P300.
- 5. CONNECT NEW 1-1/2" GAS LINE FROM METER TO THE EXISTING 1-1/4" GAS LINE.
- 6. FULL SIZE EVAPORATIVE COOLER WATER DISCHARGE THROUGH ROOF. PROVIDE ROOF FLASHING.
- 7. EXTEND EXTRACTOR DRAIN TO FLOOR SINK.
- 8. LOCAL NATURAL GAS UTILITY TO PROVIDE AND INSTALL NEW GAS METER AND REGULATOR ASSEMBLY WITH MINIMUM CAPACITY OF 371 CFH. PLUMBING CONTRACTOR TO COORDINATE WITH OWNER TO PAY FOR ALL FEES ASSOCIATED WITH THE INSTALLATION OF THE NEW NATURAL GAS METER.
- 9. PROVIDE FLOOR DRAIN/SINK TRAP SEALS.



GAS [DEMAN	D CALCUL	ATIONS
EQUIPMENT	QUANTITY	DEMAND (EACH, BTUP	TOTAL DEMAND (BTUH)
EXISTING LOAD	1	215,000	215,000
UH-1	2	38,000	76,000
WATER HEATER	1	80,000	80,000

1-1	2	38,000	76,000					
ATER HEATER	1	80,000	80,000					
DTAL DEMAND			371,000					
1,000 BTUH DIVIDED BY 1000 BTUH /CU.FT.=371.0 CFH. TOTAL DEVELOPED PIPING LENGTH FOR METER BANK EQUALS 200'. BASED ON TABLE								
16.2(1) OF THE 2015 EDITION OF THE UNIFORM PLUMBING CODE, A 1-1/2" GAS LINE WILL CARRY 412.0 CFH OVER 200', REMAINING BRANCH NES WILL BE SIZED ACCORDING TO THE TOTAL DEVELOPED LENGTH, AND BASED ON TABLE 1216.2(1).								

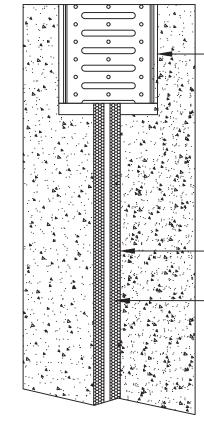






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- 4" PERFORATED PIPE SCH. 40 P.V.C. 1/4" SLOPE., 17 GAL/12HR OF OPERATION.



-4" X 6 FT PERFORATED PVC PIPE

_ 1" TO 1 1/2" GRADED CRUSHED STONE.

-24" X 24" FIBERGLASS GRATE

GAS CONDENSATE SEWER AND VENT PLUMBING PLAN P300



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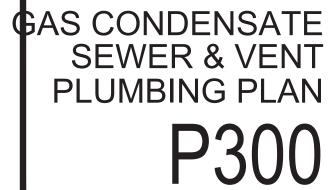


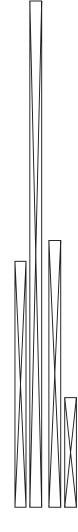
1/8" = 1'-0"

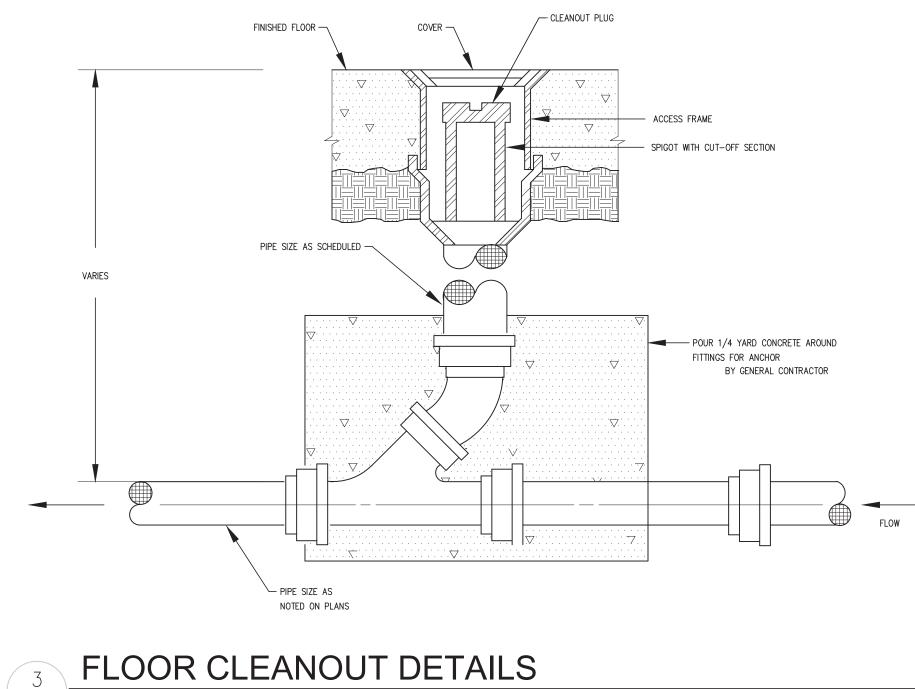
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DATE

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4LB. SHEET LEAD BASE

SET IN PLASTIC CEMENT

SEE ARCH. DWGS.

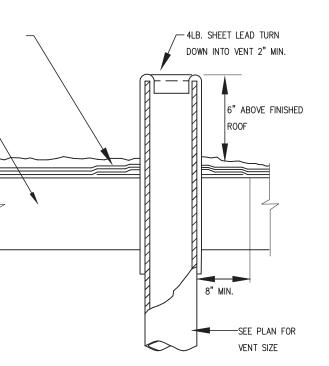
CONSTRUCTION

FOR ROOF

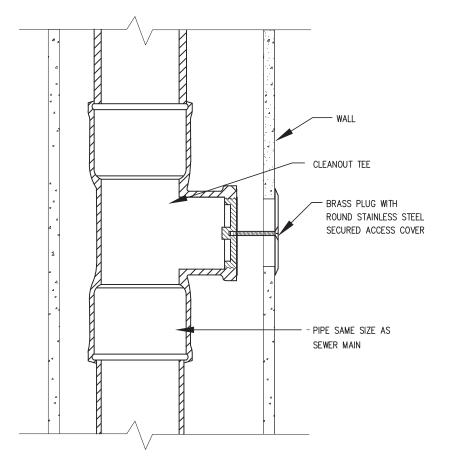
P400

VENT THRU ROOF

P400

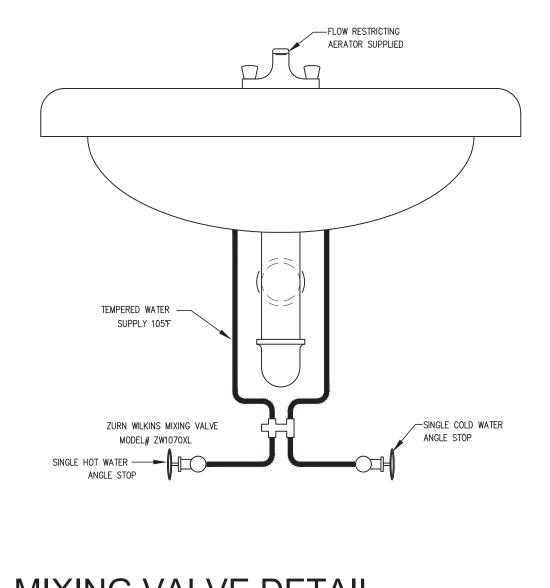


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F I F	ECTRICAL SYMBOL	LEGE	ND				EI E (CTRICAL SYME		FGEND	ELECTRICAL GENERAL NOTES
	YMBOLS COMPRISE A STANDARD LIST; NOT							JINICAL JIVIL			A. THE ELECTRICAL CONTRACTOR SHALL FAMILIARIZED THEMSELVES WITH THE PROJEC CONDITIONS.
	NTING HEIGHTS ARE TO CENTER OF DEVICE						A OR AMP	AMPERE	NEC	NATIAL ELECTRIC CODE	
ARCHITE	CTURAL WALL ELEVATIONS OR AS NOTED SP DUNTED HEIGHTS LISTED BELOW.						AF	AMP FUSED	NEUT	NEUTRAL	B. THE ELECTRICAL CONTRACTOR SHALL FAMILIARIZE THEMSELVES WITH ALL ARCHITECTURAL AND MECHANICAL EQUIPMENT AND PROVIDE ELECTRICAL
	LIGHTING SYMBOLS		POWER SYMBOLS		SPE	CIAL SYSTEMS SYMBOLS	AFF	ABOVE FINISH FLOOR	NEMA	NATIONAL ELECTRICAL MANUFACTURER ASSOCIATION	CONNECTIONS IN THIS CONTRACT FOR ANY ITEM REQUIRED.
SYMBOL	DESCRIPTION	MTG. SYMBO		MTG.	SYMBOL	DESCRIPTION	AHU	AIR HANDLING UNIT	NFPA	NATIONAL FIRE PROTECTION	C. THE CONTRACTOR SHALL FAMILIARIZE THEMSELVES WITH PROJECT PRIOR TO THE BID OPENING, TO ALLOW HIM TO SUBMIT A COMPLETE BID WITHIN THE SCOPE OF
	FLUORESCENT OR LED LIGHTING FIXTURE,	HT.	JUNCTION BOX	HT.	STMDOL	HT.	· AIC	AMPS INTERRRUPTING CAPACITY	NF	ASSOCIATION NON FUSED	THE DRAWINGS AND SPECIFICATIONS. ANY QUESTIONS ARISING DURING THE BID
, ó, , j	CAPITAL LETTER INDICATES FIXTURE TYPE, REFER TO FIXTURE SCHEDULE					DATA/TEL. BOX IN WALL, 4" SQ. DEEP J-BOX WITH SINGLE GANG PLASTER RING, STUB UP	AL AC	ALUMINUM ABOVE COUNTER	NO	NORMALLY OPEN	PERIOD, IN REGARD TO THE CONTRACTOR'S FUNCTIONS, THE SCOPE OF THE WORK OR ANY OTHER ISSUE RELATED TO THIS PROJECT SHALL BE BROUGHT UP DURING
	REFER TO FIXTURE SCHEDULE	⊨ ⊂	DUPLEX RECEPTACLE OUTLET, WALL MOUNTED	18"		1" WITH PULLSTRING TO ABOVE ACCESSIBLE	COND./C	CONDUIT	PB	PUSHBUTTON	THE BID PERIOD WITH THE ENGINEER FOR CLARIFICATION PRIOR TO AWARD OF CONTRACT.
Ø E	DIRECTIONAL LIGHT, LETTER IDICATES FIXTURE TYPE, REFER TO FIXTURE SCHEDULE		SYM DESCRIPTION COLOR			CEILING	COND.7C	CIRCUIT	PC	PHOTOCELL	
C C			STANDARD 20A IVORY/WHITE IG ISOLATED GROUND ORANGE W/ TRIANGLE			DATA BOX IN WALL, 4" SQ. DEEP J-BOX WITH 18"	CLG	CEILING	PH	PHASE	D. IT WILL BE THE CONTRACTOR'S OBLIGATION TO INCLUDE, IN THEIR BID, THE COSTS FOR INSTALLING JUNCTION BOXES, PROVIDING MISCELLANEOUS COVERS, WORK WIT
EО	WALL MOUNTED FIXTURE, CAPITAL LETTER INDICATES FIXTURE TYPE, REFER TO FIXTURE		GFI 20A GFI RATED IVORY/WHITE			SINGLE GANG PLASTER RING, STUB UP 1" WITH PULLSTRING TO ABOVE ACCESSIBLE	CLG	CONNECTION	PNL		OTHER DISCIPLINES WHERE THE CONTRACT INVOLVES ELECTRICAL POWER OR
	SCHEDULE		UPS 15A OR 20A FOR UPS GRAY D DEDICATED 5-20R GRAY			CEILING	CU	CUPPED	PRV	PANEL POWER ROOF VENTILATION	CONTROL CONNECTIONS, SWITCHES, ETC. ALL OF THIS WORK SHALL BE PART OF THIS CONTRACT.
EO	RECESSED CAN FIXTURE, CAPITAL LETTER INDICATES FIXTURE TYPE, REFER TO FIXTURE		EM EMERGENCY RED C CHILD PROOF WHITE		И	TEL. BOX IN WALL, 4" SQ. DEEP J-BOX WITH 18"		DISCONNECT	PS	PHOTO CELL	
	SCHEDULE		DUPLEX RECEPTACLE OUTLET GFI RATED,	- 	Z	SINGLE GANG PLASTER RING, STUB UP 1" WITH PULLSTRING TO ABOVE ACCESSIBLE	EC	ELECTRICAL CONTRACTOR	PVC	PLASTIC CONDUIT	E. LOCATION OF EQUIPMENT AND OTHER DEVICES SHOWN ON THE PLANS ARE APPROXIMATE AND SHALL BE FIELD VERIFIED, COORDINATE WITH ARCHITECTURAL
⟨ P⟩ _{EF−1}	EXHAUST FAN, REFER TO MECHANICAL PLANS	•	WALL MOUNTED	44		CEILING	EM	EMERGENCY	RECEP	RECEPTACLE	DOCUMENTS FOR EXACT LOCATIONS.
U		€	120/250VAC - 30A. 10-30R, RECEPTACLE WALL MOUNTED	18"	B	CHIME FOR DOOR BELL, WALL MOUNTED	EQUIP	EQUIPMENTS	RTU	ROOF TOP UNIT	F. THE CONDUIT RUNS AS SHOWN ON PLANS INDICATE APPROXIMATE ROUTING. EXAC
-® E	POLE LIGHTING FIXTURE, CAPITAL LETTER INDICATES FIXTURE TYPE, REFER TO FIXTURE	•	SWITCHED OUTLET, SPLIT WIRE	18"	Τ	TRANSFORMER. VERIFY WITH MANF.	EWC	ELECTRICAL WATER COOLER	SW	SWITCH	LOCATION OF CONDUIT RUNS SHALL BE AS FIELD CONDITIONS DICTATE.
P2	SCHEDULE	_	1/2 SWITCHED, 1/2 HOT		$\bigcirc \bigcirc \bigcirc$	THERMOSTAT/REMOTE SENSOR, BY OTHERS, PROVIDE 4" SQ. DEEP J-BOX WITH SINGLE 48"	EWH	ELECTRICAL WATER HEATER	TC	TIMER CONTACTOR	G. CONTRACTOR SHALL INSTALL PULL AND JUNCTION BOXES WHEREVER REQUIRED B N.E.C. OR JOB CONDITIONS. ALL NEW WIRING SHALL BE TAGGED AT ALL PULL
	DECORATIVE POLE LIGHTING FIXTURE, CAPITAL LETTER INDICATES FIXTURE TYPE, REFER TO	₽	QUADRUPLEX RECEPTACLE, WALL MOUNTED	18"		GANG PLASTER RING	FA	FIRE ALARM	TEL	TELEPHONE	BOXES, JUNCTION BOXES, EQUIPMENT BOXES AND CABINETS WITH APPROVED
	FIXTURE SCHEDULE		FLOOR BOX. PROVIDE WITH RECEPTACLE(S)			HVAC CONTROLS, BY OTHERS, PROVIDE 4"	FLA	FULL LOAD AMPERES	T OR TRAN		PLASTIC TAGS. ACTION CRAFT, BRADY OR APPROVED EQUAL.
⊕ _N	BOLLARD LIGHTING FIXTURE, CAPITAL LETTER INDICATES FIXTURE TYPE, REFER TO FIXTURE	_	AND SPACE FOR TEL/DATA		S	SQ. DEEP J-BOX WITH SINGLE GANG PLASTER RING. 1" CONDUIT TO ACCESSIBLE CEILING	FLOUR	FLUORESCENT	TYP	TYPICAL	H. SHOULD CONTRACTOR AT ANY TIME NOTICE THAT THE ACTUAL FIELD CONDITIONS
	SCHEDULE	¢	DUPLEX RECEPTACLE OUTLET, CEILING MOUNTED				F	FUSE	UG	UNDER GROUND	DO NOT CORRESPOND TO THE INFORMATION GIVEN ON THE DRAWINGS, THEN IT V BE THEIR RESPONSIBILITY TO NOTIFY THE ENGINEER FOR CLARIFICATION, PRIOR T
	CEILING FAN WITH OR WITHOUT LIGHTING KIT, CAPITAL LETTER INDICATES FIXTURE TYPE,	ŀ₽	DUPLEX RECEPTACLE OUTLET, STUBB-UP 18"		N TV	DATA/TEL. BOX IN WALL, 4" SQ. DEEP J-BOX WITH SINGLE GANG PLASTER RING, STUB UP	GC	GENERAL CONTRACTOR	UH	UNIT HEATER	COMMENCING SUCH WORK.
\sim	REFER TO FIXTURE SCHEDULE		AFF FOR EQUIPMENT			3/4" WITH COAX CABLE TO CABLE TV TERMINATION BOX	GFI	GROUND FAULT INTERRUPTER	UV	UNIT VENTILATOR	I. IT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR TO COORDINATE WITH AL
	EMERGENCY LIGHT, CAPITAL LETTER		ELECTRICAL WIRING THRU WALL OR CEILING				GND	GROUND	V	VOLT	TRADES FOR THE EXACT LOCATION OF EQUIPMENT AND APPURTENANCES THAT REQUIRE ELECTRICAL CONNECTIONS.
⊐ EM	INDICATES FIXTURE TYPE, REFER TO FIXTURE SCHEDULE		ELECTRICAL WIRING BELOW FLOOR OR GRADE		В	BUZZER, CEILING MOUNTED OR WALL MOUNTED, PROVIDE 4" SQ. DEEP J-BOX WITH	GRS	GALVANIZED RIGID STEEL	VA	VOLT AMPERES	
	EXIT LIGHT, CAPITAL LETTER INDICATES	1	ELECTRICAL WIRING BELOW FLOOR ON GRADE			SINGLE GANG PLASTER RING	HP	HORSE POWER	W	WATTS	J. CONTRACTOR SHALL MAKE AS-BUILT DRAWINGS DOCUMENTING ANY AND ALL WIRI AND EQUIPMENT CONDITIONS AND CHANGES WHILE COMPLETING THIS CONTRACT.
X X1	FIXTURE TYPE, REFER TO FIXTURE SCHEDULE	E UG	- ELECTRICAL FEEDER, UNDER GRADE		D	PUSH BUTTON FOR BUZZER, CEILING	HZ	HERTZ ISOLATED GROUND	WP W/O	WEATHER PROOF WITHOUT	PROVIDE UPDATED TYPEWRITTEN DIRECTORIES FOR ALL PANELS AND LABEL ALL PANELS WITH PLASTIC LAMINATED NAMEPLATES.
\$	WALL SWITCH. 20A SINGLE POLE. SINGLE	48"T	- TELEPHONE CONDUIT WITH PULLSTRING			MOUNTED OR WALL MOUNTED, PROVIDE 4" SQ. DEEP J-BOX WITH SINGLE GANG PLASTER	J-BOX	JUNCTION BOX	W/O WTR	WATER	
Ψ	TROW		RACEWAY/WIREWAY ASSEMBLY DOWN			RING	KV	KILOVOLT	Y	WYE CONNECTED	K. INSTALL BLANK DEVICE PLATES ON ALL UNUSED JUNCTION BOXES IN FINISHED AREAS.
	SYM DESCRIPTION SYM DESCRIPTION		'			PUSH BUTTON FOR DOOR OPENER, CEILING	KVA	KILOVOLT AMPERES	Ø	PHASE	
	ab SWITCH LEG CONTROL P RED PILOT LIGHT 2 DOUBLE POLE T ROTARY TIMER		STUBBED CONDUIT, TERMINATE WITH ISOLATED		PB	MOUNTED OR WALL MOUNTED, PROVIDE 4" SQ. DEEP J-BOX WITH SINGLE GANG PLASTER	KW	KILOWATT			L. ALL ELECTRICAL WIRING AND HOME RUN CIRCUITING TO PANELS SHALL BE ROUTE IN CONDUIT, MIN SIZE 3/4" EMT CONDUIT IF NOT NOTED ON DRAWINGS.
	3 THREE WAY M HORSE POWER MOTOR 4 FOUR WAY RATED SWITCH		PLASTIC BUSHING			RING	LTG				
	D SLIDER DIMMER OR OCCUPANCY SENSOR, (1400W MIN.) WITH BYPASSINFRA-		HOME RUN TO PANELBOARD, CROSS MARKS			3/4" FIRE RATED PLYWOOD WITH #6 CU.	MC/MEC				M. REFER TO POWER PLANS FOR DETAILED LAYOUTS OF ELECTRICAL GEAR.
	K KEYED SWITCH (WITH RED SENSOR	—	X INDICATE QUANTITY OF WIRE, ARROWS INDICATE QUANTITY OF CIRCUITS, NUMBERS			GROUND TO BUILDING GROUNDING SYSTEM		THOUSAND CIRCULAR MIL			N. AFTER THE CONTRACTOR HAS RECEIVED APPROVED SHOP DRAWINGS FOR THE ELECTRICAL DISTRIBUTION EQUIPMENT, THEY SHALL SUBMIT SCALED LAYOUTS OF
	TOOL) OUCOPANCT SENSOR,		INDICATE PANEL AND CIRCUITS		FIRE A	LARM SYSTEM SYMBOLS	MTD	MOUNTED			ALL ELECTRICAL EQUIPMENT TO THE ENGINEER FOR APPROVAL TO ENSURE THAT
	B BYPASS SWITCH ULTRASONIC SENSOR LV LOW VOLTAGE SWITCH OC OCCUPANCY SENSOR,		HOME RUN TO PANELBOARD, CROSS MARKS INDICATE QUANTITY OF WIRES, ARROWS		SYMBOL	DESCRIPTION MTG.	· NC	NORMALLY CLOSED			ALL CLEARANCE REQUIREMENTS ARE MET. THIS SUBMITTAL SHALL BE PROVIDED WITH SUFFICIENT TIME SO AS NOT INTERFERE WITH THE TIMELY EXECUTION OF TH
	WITH BYPASS DUAL TECHNOLOGY					PULL STATION WITH STOPPER, PROVIDE 4"					ROUGH-IN WORK THAT WILL BE REQUIRED.
			INDICATE ISOLATED GROUND, NUMBERS		×	SQ. DEEP J-BOX WITH SINGLE GANG PLASTER 48"	DEF	NITIONS			O. WHEREVER REQUIRED, FURNISH AND INSTALL ON WALL OR CEILING FREESTANDING
𝒮₀c	CEILING MOUNTED OCCUPANCY SENSOR, WITH BYPASS SWITCH WALL MOUNTED		INDICATE PANEL AND CIRCUITS			RING, 1" CONDUIT TO ACCESSIBLE CEILING	CONTRACTOR	MEANS THE PERSON(S), FIRM OR C	OMPANY WHOSE	E TENDER	UNISTRUT CHANNELS, ANGLE IRONS OR ANY OTHER SUPPORT STRUCTURE WITH THREADED ROD HANGERS AS REQUIRED FOR THE SUPPORT OF ELECTRICAL
	SYM DESCRIPTION		X HOME RUN TO PANELBOARD, CROSS MARK ON ARROW INDICATE CIRCUIT CONTINUES TO			STROBE, NUMBER DENOTES 'cd' RATING,		FOR THE ELECTICAL INSTALLATION F THE EMPLOYER AND INCLUDE THE C			EQUIPMENT OF ANY KIND TO ENSURE PROPER INSTALLATION.
	OR OCCUPANCY SENSOR, WITH BYPASS		OTHER DEVICE.		図0 45	PROVIDE 4" SQ. DEEP J-BOX WITH SINGLE 96 GANG PLASTER RING, 1" CONDUIT TO		SUCCESSOR, AND PERMITTED ASSIG		ERSUNAL REPRESENTATIVE,	P. ALL NEW WIRING SHALL BE COPPER, MIN #12 THWN CU.
	INFRA-RED SENSOR	.14	HOME RUN TO PANELBOARD, CROSS MARK			ACCESSIBLE CEILING		(The word "Contractor" may also m	iean sub-contro	actor as	
	OU OCCUPANCY SENSOR, WITH BYPASS ULTRASONIC SENSOR		INDICATE CIRCUIT CONTINUES TO OTHER DEVICE.		_	HORN/STROBE, NUMBER DENOTES 'cd' RATING,		the context requires.)			Q. MOUNTING HEIGHTS INDICATED ON THE DRAWINGS ARE APPROXIMATE. THIS CONTRACTOR SHALL BE RESPONSIBLE FOR COORDINATING WITH OTHER TRADES FOR
	OCCUPANCY SENSOR, WITH BYPASS		HOME RUN, CROSS MARK INDICATE CIRCUIT,		区 45	PROVIDE 4" SQ. DEEP J-BOX WITH SINGLE	DRAWINGS	MEANS THE DRAWINGS REFEREED TO MODIFICATION OF SUCH DRAWINGS /			EXACT HEIGHT REQUIRED. THIS REQUIREMENT ALSO APPLIES TO THE LOCATION OF WALL BOXES FOR HVAC SENSORS, T-STATS, ETC. THIS NOTE APPLIES TO ALL
	OC DUAL TECHNOLOGY SENSOR (INFRARED & ULTRASONIC)	l I[]	HALF CIRCUICLE INDICATE SWITCH LEGS			GANG PLASTER RING, 1" CONDUIT TO ACCESSIBLE CEILING		SUCH OTHER DRAWINGS AS MAY FR	ROM TIME TO TI		ELECTRICAL SHEETS IN THESE DRAWINGS: OUTLET DEVICES THAT HAVE TO BE
			PANELBOARD, REFER TO CORRESPONDING					APPROVED IN WIRING BY ARCHITECT	Ι.		RELOCATED DUE TO COUNTERTOP, CHALKBOARD, TACKBOARD, TYPE CONFLICTS V BE DONE AT NO ADDITIONAL COST TO THE OWNER.
			PANEL SCHEDULE		S	SMOKE DETECTOR	EQUIPMENT SUPPLIER	MEANS A PERSON WHO GENERATE,		SELLS SPECIAL	
					(&) (*)	CARBON MONOXIDE/SMOKE DETECTOR		EQUIPMENT FOR USE IN THE PROJE			R. ELECTRICIAN TO CONFIRM POWER REQUIREMENTS FOR MECHANICAL EQUIPMENT DELIVERED ON SITE.
					_		PROVIDE	FURNISH AND INSTALL, UNLESS OTH	HERWISE NOTED		S. ALL EXPOSED CONDUIT SHALL BE PAINTED TO MATCH ARCHITECTURAL WALL OR
					FACP	FIRE ALARM CONTROL PANEL WITH DIGITAL NOTIFIER	OR EQUAL	EQUAL IN QUALITY AND FUNCTION.			CEILING.
					FARA	FIRE ALARM REMOTE ENUNCIATOR	INSTALL	FURNISH AND INSTALL, UNLESS OTH	HERWISE NOTED		T. CONTRACTOR SHALL SAW CUT AND PATCH ASPHALT, CONCRETE OR OTHER
						FIRE ALARM KEY PAD					MATERIAL ENCOUNTERED AS REQUIRED TO INSTALL NEW UNDERGROUND RACEWAY REFER TO ARCHITECTURAL REGARDING PATCHING REQUIREMENTS.
	·		1	. 1			_				
											U. CONTRACTOR SHALL COORDINATE INSTALLATION OF NEW LAY-IN FIXTURES WITH ARCHITECTURAL REFLECTED CEILING PLAN AND MECHANICAL DIFFUSERS PRIOR TO
LEC	TRICAL SPECIFICATIC	NS									INSTALLATION OF FIXTURES.
	ECTRICAL WORK SHALL BE PERFOR					THREE (3) COPIES OF ALL INSTALLAT		. INCREASE BRANCH CIRCU			
	HE APPLICABLE AND ADOPTED PRO ICAL CODE, ENERGY CODE AS ADO					ATA SUBMITTAL INFORMATION, WARRAN Ring warranty period and balanci		EXCESSIVE VOLTAGE DRO 100' - #8 AWG.	P AS FOL	LOWS: 60' TO 100' - #10	AWG; OVER BOLTED CIRCUIT BREAKERS, KAIC RATING AS NOTED. PROVIDE TYPED AND LAMINATED COMPLETE SCHEDULE. MARKING IN COMPLIANCE WITH
HE ST	ATE OF NEW MEXICO AND THE NA	TIONAL FIRE F	PROTECTION REPORTS								THE 2017 NEC 110.21, 110.22, 200.6(D), 210.5(C) AND 408.4.
	ATION (NFPA) REGULATIONS, CURR DING MECHANICAL SYSTEMS, FIRE S			MS ANI		ENTS SHALL BE APPROVED FOR THE	12	. THE CONDUIT SYSTEM		TRAL CONDUCTOR OF THE CCORDANCE WITH THE NEC	
	SHIGHT ME CHARGE CONCLEMENT INCLES	, CILIVIO MINU				LIVE CLINE DE METROVED FON HIE			\square \square \square \square \square \square \square \square		AND ALL NEE DISCONDENTS SHALL DE HEAVE DUIT NATED.

- REGARDING MECHANICAL SYSTEMS, FIRE SYSTEMS AND ELECTRICAL SYSTEMS. ALL MATERIALS AND LABOR NECESSARY TO COMPLY WITH RULES, REGULATIONS, AND ORDINANCES SHALL BE PROVIDED. WHERE THE DRAWINGS INDICATE MATERIALS OR CONSTRUCTION IN EXCESS OF CODE REQUIREMENTS, THE OWNER, ARCHITECT, AND ENGINEERS ARE FREE AND HARMLESS FROM LIABILITY OF ANY NATURE OR KIND ARISING ^{8.} THE CONTRACTOR SHALL COORDINATE WITH OWNER, ARCHITECT, AND OR FROM HIS FAILURE TO COMPLY WITH ALL APPLICABLE CODES AND ORDINANCES.
- 2 ALL WORK SHALL CONFORM WITH FEDERAL, STATE, AND LOCAL CODES, RULES, AND REGULATIONS. ALL WORK SHALL BE PERFORMED BY A LICENSED CONTRACTOR IN A FIRST CLASS WORKMANLIKE MANNER. THE SYSTEMS SHALL BE INSTALLED COMPLETE AND FULLY OPERATIVE UNLESS OTHERWISE INDICATED.
- ALL MATERIALS SHALL BE NEW, EXCEPT WHERE NOTED OTHERWISE. ALL WORK SHALL PRESENT A NEAT AND MECHANICAL APPEARANCE WHEN COMPLETED AND SHALL BE EXECUTED IN A WORKMANLIKE MANNER.
- REQUIRED INSURANCE SHALL BE PROVIDED BY THIS CONTRACTOR FOR PROTECTION AGAINST PUBLIC LIABILITY AND PROPERTY DAMAGE FOR THE DURATION OF WORK. CONTRACTOR SHALL SECURE AND PAY ALL PERMITS, FEES, INSPECTIONS, AND TESTS UNLESS OTHERWISE INDICATED. COORDINATE WITH ARCHITECT, ENGINEER, OR OWNER. SUBSTITUTIONS REQUESTED BY THE CONTRACTOR SHALL BE PAID FOR BY THE CONTRACTOR.
- 5. CONTRACTOR SHALL SUBMIT SPECIFIC INFORMATION ON LIST OF EQUIPMENT AND PRINCIPAL MATERIAL SPECIFIED. CONTRACTOR SHALL INDICATE AND/OR PROVIDE NAME OF MANUFACTURERS, CATALOG AND MODEL NUMBERS, CUT SHEETS, AND SUCH SUPPLEMENTARY INFORMATION AS NECESSARY FOR EVALUATION. MINIMUM OF SIX (6) COPIES, OR AS DIRECTED BY THE ENGINEER, OF EACH SECTION SHALL BE SUBMITTED AND SHALL INCLUDE ALL ITEMS MENTIONED BY MODEL NUMBER AND/OR MANUFACTURER'S NAME IN THE SPECIFICATION OR IN SCHEDULES ON THE DRAWINGS.

- 7. ALL SYSTEMS AND COMPONENTS SHALL BE APPROVED FOR THE PURPOSE FOR WHICH INSTALLED. ALL EQUIPMENT AND MATERIALS SHALL BE NEW AND FROM ESTABLISHED AMERICAN SUPPLIERS UNLESS OTHERWISE INDICATED.
- ENGINEER ANY WORK THAT HAS THE POTENTIAL TO HINDER ELECTRICAL SERVICES TO AREA OUTSIDE OF THIS CONTRACT. ALL SHUT-DOWNS OR TIE-INS RELATING TO THESE SYSTEMS SHALL BE SCHEDULED AND SUBMITTED IN WRITING TO BE APPROVED BY THE OWNER'S FACILITY MANAGEMENT, OWNER, ARCHITECT, OR ENGINEER. CONTRACTOR SHALL SUBMIT IN WRITING A SCHEDULE FOR PHASING OF CONSTRUCTION THAT INDICATES AREAS OF FIRST PRIORITY DURING EACH PHASE AND ANTICIPATED COMPLETION TIMES. SCHEDULES SHALL BE SUBMITTED A MINIMUM OF ONE WEEK PRIOR TO COMMENCING WORK. FACILITY MANAGEMENT, OWNER, ARCHITECT OR ENGINEER SHALL REVIEW THESE SCHEDULES AND NOTIFY CONTRACTOR OF ACCEPTANCE PRIOR TO COMMENCEMENT OF WORK.
- CONTRACTOR SHALL FIELD VERIFY EXISTING CONDITIONS AND PROVIDE A WRITTEN REPORT TO THE ARCHITECT OFFICE. THIS REPORT SHALL DESCRIBE EXISTING DAMAGE OR OTHER CONDITIONS THAT MAY INTERFERE WITH THIS PROPOSED NEW WORK. THIS SITE SURVEY SHALL ALSO INCLUDE VERIFICATION OF SIZES, LOCATIONS, AND CONDITIONS OF EXISTING UTILITIES.
- 10. ALL WIRING SHALL BE RUN IN RIGID CONDUIT, INTERMEDIATE METALLIC CONDUIT (IMC) OR ELECTRICAL METALLIC TUBING (EMT) INSTALLED IN ACCORDANCE WITH THE NEC. MC CABLE IS ALLOWED IN WALLS ONLY. ALUMINUM CONDUIT SHALL NOT BE USED UNLESS SPECIFICALLY INDICATED ON THE DRAWINGS. EMT OR ALUMINUM CONDUIT SHALL NOT BE INSTALLED IN CONCRETE SLABS OR BELOW GRADE. MINIMUM SIZE -3/4 INCH. ALL CONDUITS CONTAINING POWER CONDUCTORS SHALL CONTAIN A EQUIPMENT GROUND CONDUCTOR SIZED IN ACCORDANCE WITH THE NEC. A #9 PULL WIRE SHALL BE INSTALLED IN EACH EMPTY CONDUIT.

T ELECTRICAL GENERAL NOTES

SYSTEM SHALL BE GROUNDED IN ACCORDANCE WITH THE NEC AND ALL ^{18,} ALL DISCONNECTS SHALL BE HEAVY DUTY RATED.

REFER TO ARCHITECTURAL PLANS FOR ADDITIONAL INFORMATION.

19. EMERGENCY EGRESS LIGHTING TO COMPLY WITH 2015 IBC SECTION 106 AND 2017 NEC 700.12.

13. USE THE FOLLOWING WIRING COLOR CODE: A. FOR WIRE SIZES 10 AWG AND SMALLER, INSTALL WIRE COLORS IN ACCORDANCE WITH THE FOLLOWING: 120/208 277/480

COMPLY WITH ALL THE APPLICABLE REQUIREMENTS OF THE NEC.

LOCAL CODES AND ORDINANCES. GROUNDING AND BONDING SHALL

	120/200	2///+00
	PHASE A BLACK	BROWN
	PHASE B RED	ORANGE
	PHASE C BLUE	YELLOW
Т	NEUTRAL WHITE	GRAY
	GROUND GREEN	GREEN
	SWITCH PINK/PURPLE	PINK/PURPLE
4.4		

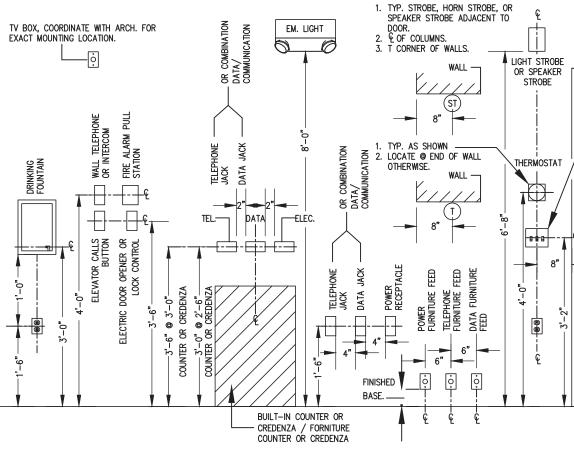
^{14.} BURIED ELECTRICAL CONDUITS SHALL BE MARKED PER CODE REQUIREMENTS WITH UNDERGROUND WARNING TAPE 3" BELOW FINISHED GRADE. TAPE SHALL BE 4" WIDE COLORED RED WITH SUITABLE WARNING LEGEND PER ASMB A13.1.

15. CONTRACTOR TO PROVIDE BLANK COVER FOR ALL J-BOXES AND WEATHERPROOF COVERS FOR J-BOXES IN WET LOCATIONS.

16. ENCLOSURES, BOXES, AND COVERS ARE REQUIRED TO CONFORM TO ALL TEST PROVISIONS OF THE MOST CURRENT ANSI/SCTE77. WHEN MULTIPLE "TIERS" ARE SPECIFIED THE BOXES MUST PHYSICALLY ACCOMMODATE AND STRUCTURALLY SUPPORT COMPATIBLE COVER WHILE POSSESSING THE HEIGHT TIER RATING. ALL COVERS ARE REQUIRED TO HAVE THE TIER LEVEL RATING EMBOSSED ON THE SURFACE. IN NO ASSEMBLY CAN THE COVER DESIGN LOAD EXCEED THE DESIGN LOAD OF THE BOX. ALL COMPONENTS IN AN ASSEMBLY (BOX & COVER) ARE MANUFACTURED USING MATCHED SURFING TOOLING. INDEPENDENT THIRD PARTY VERIFICATION OR TEST REPORTS STAMPED BY A REGISTERED

PROFESSIONAL ENGINEER CERTIFYING THAT ALL TEST PROVISIONS OF THIS SPECIFICATION HAVE BEEN MET ARE REQUIRED WITH EACH SUBMITTAL. CONTRACTOR TO ENSURE EXACT LOCATION AND PLACEMENT OF BOXES AND COVERS AND PROVIDE THE RATING REQUIRED BY LOCAL AND NATIONAL CODES.

TYPICAL DEVICE MOUNTING HEIGHTS NOTE: THE MOUNTING HEIGHTS DELINEATED BELOW ARE TYPICAL ONLY. PLANS, ELEVATIONS & DETAILS MAY SHOWN VARIATIONS FOR SPECIFIC CONDITIONS.



PROVIDE BLANK METAL COVERPLATE OVER ALL UNUSED OUTLET BOXES. PAINT COVERPLATE MATCH ADJACENT SURFACES.

V. OUTLET MOUNTING HEIGHTS INDICATED ON THE DRAWINGS ARE APPROXIMATE. THIS CONTRACTO SHALL BE RESPONSIBLE FOR COORDINATING WITH OTHER TRADES FOR EXACT HEIGHT REQUIRE THIS REQUIREMENT ALSO APPLIES TO SWITCHES, TELEPHONE OUTLETS, DATA OUTLETS, HVAC SENSORS, FTC., ANY DEVICE THAT HAS TO BE RELOCATED DUE TO CONTRACTOR'S FAILURE T COORDINATE LOCATION WITH COUNTERTOPS, CHALKBOARDS, TACKBOARDS, ETC. WILL BE DONE AT NO ADDITIONAL COST TO THE OWNER.

ALL RECEPTACLES TO BE 20A COMMERCIAL GRADE, WHITE. STAINLESS STELL WALL PLATES. ISOLATED GROUND DUPLEX RECEPTACLES (IG) WILL BE ORANGE BODY AND FACE PLATE.

INSTALL WALL MOUNTED LIGHT FIXTURES, SWITCHES, OUTLETS, AND COMMUNICATION DEVICES IN STRICT COORDINATION WITH ARCHITECTURAL DETAILS, SECTIONS AND ELEVATIONS.

FIRESTOPPING OF PENETRATIONS IN FIRE-RATED WALLS, FLOORS, etc. SHALL BE DONE BY A FIRESTOPPING CONTRACTOR. ELECTRICAL CONTRACTOR SHALL MAKE REQUIRED PENETRATIONS RATED WALLS, FLOORS, etc. NEATLY AND WITH A CUTTING TOOL, THE CONTRACTOR SHALL MAKE THE PENETRATIONS NO LARGER THAN NECESSARY, AND THE CONTRACTOR SHALL COORDINATE ALL SUCH PENETRATIONS WITH THE FIRE STOPPING CONTRACTOR BEFORE SUCH PENETRATIONS ARE MADE.

A. PROVIDE 1" CONDUIT WITH PULLSTRING FROM COMMUNICATION OUTLETS TO ABOVE SUSPENDED CEILING.

3B, SUPPORT ALL FIXTURES FROM STRUCTURE ABOVE, CEILING TILES OR PLASTER CEILING SHALL NOT SUPPORT FIXTURES.

C. FINISHED FLOOR ELEVATIONS FOR OUTLETS AND OTHER DEVICES ARE TO CENTER OF BOX. WHERE MILLWORK IS PRESENT, BOTTOM OF BOX SHALL BE MINIMUM OF 2" ABOVE BACK-SPLASH, REGARDLESS OF DIMENSION SHOWN ON PLANS.

D. SUPPORT HORIZONTAL RUNS OF EMT CONDUIT EVERY 10'-0" AND AT EVERY FITTING, BOX, PANEL, ETC..

USE GLAND RING COMPRESSION THREADED FITTINGS WITH INSULATED THROAT FOR EMT CONDUIT. DOUBLE SET SCREW FITTINGS ARE ACCEPTABLE FOR 2-1/2" CONDUIT AND LARGER ONLY.

ELECTRICAL CONTRACTOR SHALL COORDINATE WITH MECHANICAL CONTRACTOR THE MECHANICAL EQUIPMENT'S ELECTRICAL REQUIREMENTS, INCLUDING POWER, CONTROL, COMMUNICATION, AND MONITORING, OF EACH DEVICE PROVIDED AND/OR INSTALLED BY MECHANICAL CONTRACTOR.

G. BEFORE INSTALLATION, EQUIPMENT AND DEVICES INCLUDING, BUT NOT LIMITED TO, ANY DEVICE WITH ELECTRICAL CONNECTIONS, DUCTWORK, INSULATION, PIPING, VALVES, AIR DEVICES, ETC., SHALL NOT BE STORED DIRECTLY ON GRADE OR ON A SLAB OR FLOOR. BEFORE AND AFTER INSTALLATION, SUCH EQUIPMENT AND DEVICES SHALL BE PROTECTED FROM ENTRY OF DIRT, TRASH, WATER (EXCEPT AS REQ'D), VERMIN, ETC..

H. DEVICES THAT MIGHT CAUSE OR OPERATE WITH VIBRATION OR NOISE SHALL BE ISOLATED PER MANUFACTURER'S RECOMMENDATIONS.

ELECTRICAL DEVICE INSTALLATION SHALL COMPLY WITH ACCESSIBILITY CODES ADOPTED FOR NEW MEXICO. SPECIFICALLY MOUNT APPLICABLE SWITCHES, RECEPTACLES, AND ENVIRONMENTAL CONTROLS SO THAT THEY ARE MOUNTED WITH THE TOP OF THE DEVICE NO HIGHER THAN FOURTY-EIGHT (48 INCHES) ABOVE THE FINISH FLOOR AND THE BOTTOM OF THE DEVICE NO LOWER THAN FIFTEEN INCHES (15 INCHES) ABOVE THE FINISHED FLOOR. ELECTRICAL DEVICES ABOVE A COUNTERTOP OR OTHER OBSTRUCTION SHOULD COMPLY WITH ICC/ANSI 117.1-2003 SECTION 308.

EXTERIOR LIGHTING SHALL COMPLY WITH THE LAS CRUCES OUTDOOR LIGHTING ORDINANCE AND THE NEW MEXICO NIGHT SKY PROTECTION.

THE MEANS OF EGRESS TRAVEL SHALL BE ILLUMINATED AT ANY TIME THE BUILDING IS OCCUPI WITH A LIGHT INTENSITY OF NOT LESS THAN 1 FOOT CANDLE AT THE FLOOR LEVEL.

ABANDONED POWER WIRING WILL BE REMOVED BACK TO THE SOURCE. THE ACCESSIBLE PORTIONS OF ABANDONED CONDUIT/TUBING AND EQUIPMENT SHALL BE REMOVED. THE ACCESSIBLE PORTIONS OF ABANDONED CABLES (VOICE, DATA, VIDEO, ALARM, ETC.) SHALL BE REMOVED.

IM. ALL CONDUIT INSTALLED ON THE ROOF MUST BE SUPPORTED, WITH CONDUIT SUPPORTS EVERY 10'-0". CONDUIT SUPPORT TO BE DURA-BLOCK, CONTRACTOR TO PROVIDED SIZED AND ACCESSORIES REQUIRED.

N. ALL GFCI RATED RECEPTACLE SHALL BE INSTALLED IN AN ACCESSIBLE SERVICE LOCATION, IT SHALL NOT BE INSTALLED BEHIND ANY EQUIPMENT. IF NEEDED CONTRACTOR SHALL HAVE THE OPTION TO PROVIDE A GFCI RATED CIRCUIT BREAKER WHERE REQUIRED BY CODE. ALL EQUIPMENT GFCI RATED RECEPTACLES SHALL NOT BE INSTALLED MORE THAN 12"FROM SERVING EQUIPMENT. COORDINATE ALL LOCATIONS WITH EQUIPMENT INSTALLER BEFORE DOING ANY WORK.

O. CONTRACTOR MUST PROVIDE DUCT SMOKE DETECTORS IN HVAC UNITS 2,000 CFM AND ABOVE. PROVIDE REMOTE TEST SWITCH AND MAKE CONNECTIONS AS REQUIRED.

P. FINAL ELECTRIC SERVICE IS BASED ON CONNECTED LOAD CALCULATIONS. CONTRACTOR SHALL COORDINATE WITH LOCAL ELECTRIC COMPANY FOR ANY REQUIREMENTS PRIOR TO PROJECT STARTUP. CONTRACTOR IS RESPONSIBLE FOR FOLLOWING LOCAL ELECTRIC COMPANY STANDARDS (EPEC BLUE BOOK), FOR SERVICE INSTALLATION.

Q. TYPICAL DETAILS AND NOTES SHALL APPLY, THOUGH NOT NECESSARILY INDICATED AT A SPECIFIC LOCATION ON PLANS. WHERE NO DETAILS ARE SHOWN, CONSTRUCTION SHALL CONFOR TO SIMILAR WORK ON THE PROJECT. DETAILS MAY SHOW ONLY ONE SIDE OF CONNECTION OR MAY OMIT INFORMATION FOR CLARITY.

R. NOTES AND DETAILS ON DRAWINGS SHALL TAKE PRECEDENCE OVER GENERAL STRUCTURAL NOTES AND TYPICAL DETAILS.

CONTRACTOR IS RESPONSIBLE TO OBTAIN AND VERIFY WITH ARCHITECT AND CITY FOR LATEST PLANS. FINISHED CEILING CEILING MOUNTING EXIT TYPICAL U.O.N 2. WALL MOUNTING 6" BELOW CEILING COORDINATE WITH DOOR SCHEDULE. FRAME 🕻 LIGHT CONTROL SINGLE SWITCH, DIMMER SWITCH OR GANGED

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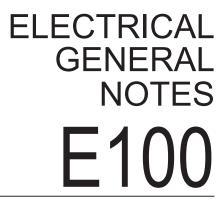
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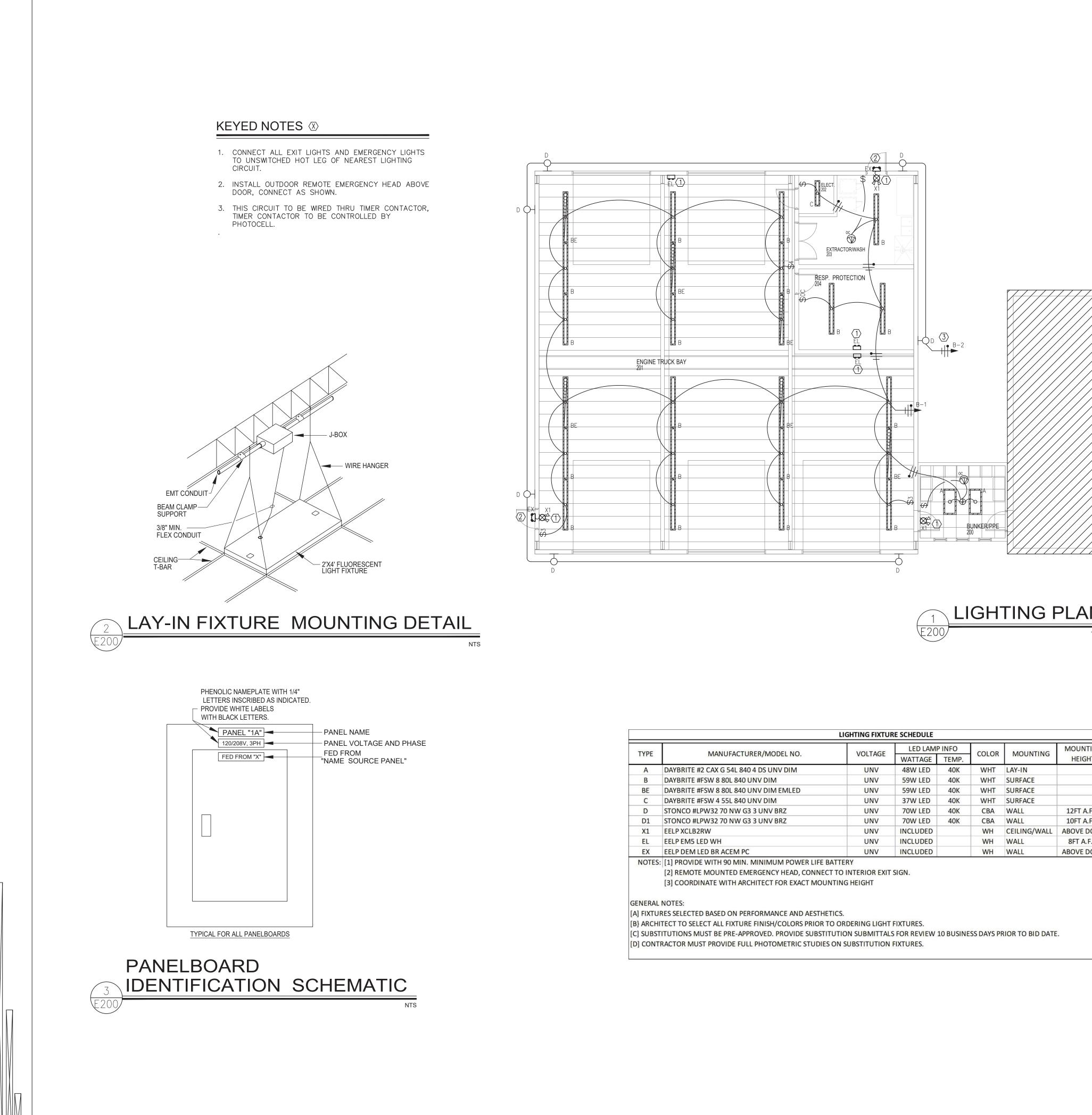


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LIGHTING PLAN 1/8" = 1'-0"

TYPE	MANUFACTURER/MODEL NO.	VOLTAGE	LED LAMP INF		COLOR	MOUNTING	MOUNTING	NOTES
	MANOFACTORER/MODEL NO.	VOLTAGE	WATTAGE	TEMP.	COLOR	MOONTING	HEIGHT	NOTES
Α	DAYBRITE #2 CAX G 54L 840 4 DS UNV DIM	UNV	48W LED	40K	WHT	LAY-IN		
В	DAYBRITE #FSW 8 80L 840 UNV DIM	UNV	59W LED	40K	WHT	SURFACE		
BE	DAYBRITE #FSW 8 80L 840 UNV DIM EMLED	UNV	59W LED	40K	WHT	SURFACE		
С	DAYBRITE #FSW 4 55L 840 UNV DIM	UNV	37W LED	40K	WHT	SURFACE		
D	STONCO #LPW32 70 NW G3 3 UNV BRZ	UNV	70W LED	40K	CBA	WALL	12FT A.F.F.	[3]
D1	STONCO #LPW32 70 NW G3 3 UNV BRZ	UNV	70W LED	40K	CBA	WALL	10FT A.F.F.	[3]
X1	EELP XCLB2RW	UNV	INCLUDED		WH	CEILING/WALL	ABOVE DOOR	[1]
EL	EELP EM5 LED WH	UNV	INCLUDED		WH	WALL	8FT A.F.F.	[1]
EX	EELP DEM LED BR ACEM PC	UNV	INCLUDED		WH	WALL	ABOVE DOOR	[2]



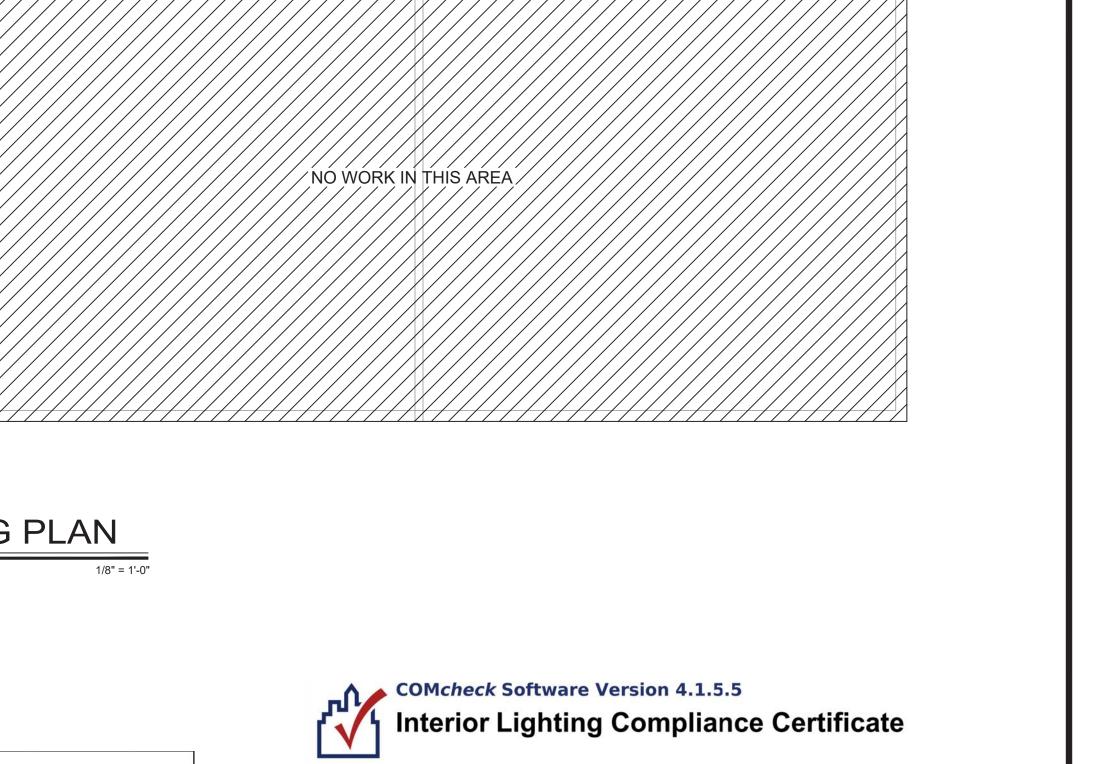
Project Information Energy Code: Project Title: Project Type:

Construction Site: 3100 N FLORIDA AVE.

1-Fire Station

1-Fire Station A: Other: B: Other: C: Other:

Interior Lighting Compliance Statement



2018 IECC ALAMOGORDO FIRE STATION 6 ADDITION Addition Owner/Agent: Designer/Contractor: JOSE MORALES RAXIS ENGINEERING, LLC ALAMOGORDO, NM 88310 1712 TEXAS AVE. EL PASO, TX 79901 (915) 519-4340 jmorales@raxisengineering.com Allowed Interior Lighting Power в D С Allowed Allowed Watts Area Category Floor Area (ft2) Watts / ft2 (B X C) 2000 3773 0.53 2000 Total Allowed Watts = Proposed Interior Lighting Power B C D E Α Lamps/ # of Fixture (C X D) Fixture ID : Description / Lamp / Wattage Per Lamp / Ballast Fixture Fixtures Watt. 2 48 24 59 1416 1 37

Interior Lighting PASSES: Design 23% better than code

Compliance Statement: The proposed interior lighting design represented in this document is consistent with the building plans, specifications, and other calculations submitted with this permit application. The proposed interior lighting systems have been designed to meet the 2018 IECC requirements in COM*check* Version 4.1.5.5 and to comply with any applicable mandatory requirements listed in the Inspection Checklist.



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96

37

1549

Total Proposed Watts =





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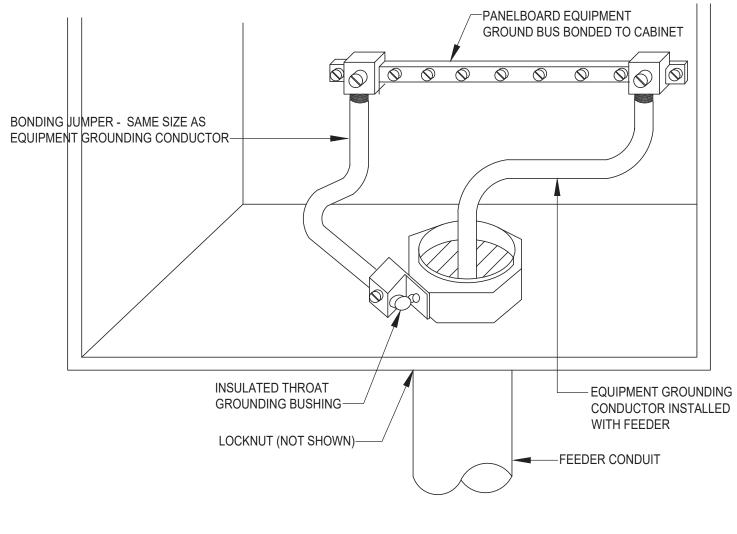




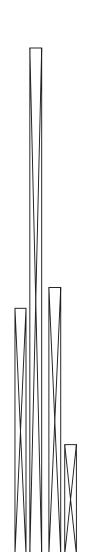
	DING TRANSFORM	ER SC. LET THRO	JGH	
WITH UNLIMITED PRIMARY S.C	. CURRENT (INFIN	IITY BUS)		
ASSUMING BUILDING TRANSFO	ORMER RATING =	150	(VA	
TRANSFORMER IMPEDANCE (%	Z)=	3.75	16	
SECONDARY VOLTAGE =			/OLTS	
SECONDARY PHASE=		3	PHASE	
FLA = KVA X 100	00 =	150	х	1000
E(I-I) X PHASE COF	RECTION	208	X	SQRT(3)
FLA = 416.36	AMPS			
100				
MULTIPLIER= 3.75	- = 26.67			
	_			
SCA = AMPS X MULTIPLIE	R =	416.36	Х	26.67
SCA = 11100	AMPS AT LOAD S	SIDE OF TRANSFO	RMER	
FAULT CU				E
TAOLT COL	INLINI AI	WAIN SL	NVIC	-
SCA AT SECONDARY =	1	1100 AMPS		
LENGTH TO MAIN SERVICE =		50 FT		
	2	6706		
	2			
	2	1		
# OF PARALLEL WIRES =	L			
"C" (WIRE CONSTANT) = # OF PARALLEL WIRES = CALCULATE "F" FACTOR F= PHASE CORRECTIO		1	A	
# OF PARALLEL WIRES =	ON X LENGTH	1 I (FEET) X SC		- <u>L</u>
# OF PARALLEL WIRES = CALCULATE "F" FACTOR F= <u>PHASE CORRECTIO</u> # OF PARALLEL WIRE	ON X LENGTH ES X "C" WIRE CO	1 I (FEET) X SC ONSTANT X VO		 -L
# OF PARALLEL WIRES = CALCULATE "F" FACTOR F= <u>PHASE CORRECTIO</u>	ON X LENGTH ES X "C" WIRE CO M= 1	1 I (FEET) X SC		<u>-L</u>
# OF PARALLEL WIRES = CALCULATE "F" FACTOR F= <u>PHASE CORRECTIO</u> # OF PARALLEL WIRE F= 0.173054	ON X LENGTH ES X "C" WIRE CO M=1 1+	1 I (FEET) X SC ONSTANT X VO		<u>-</u> L

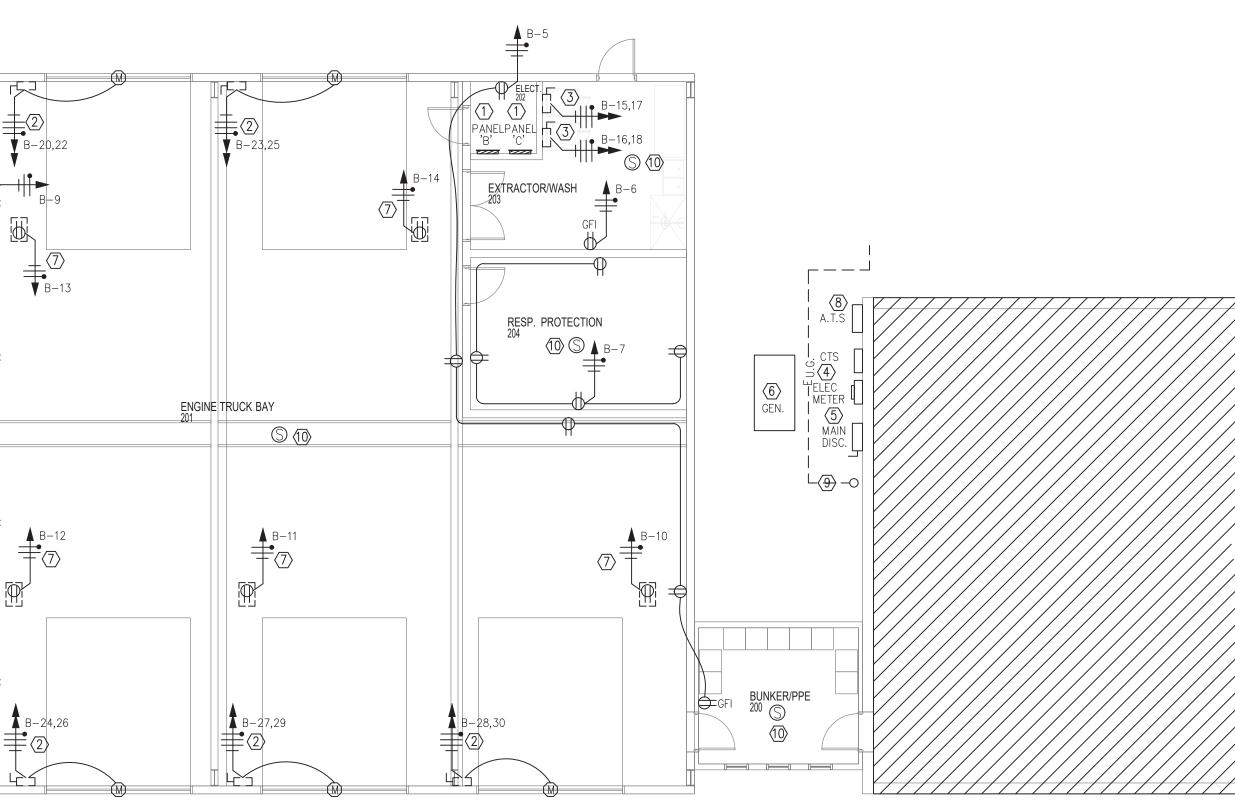
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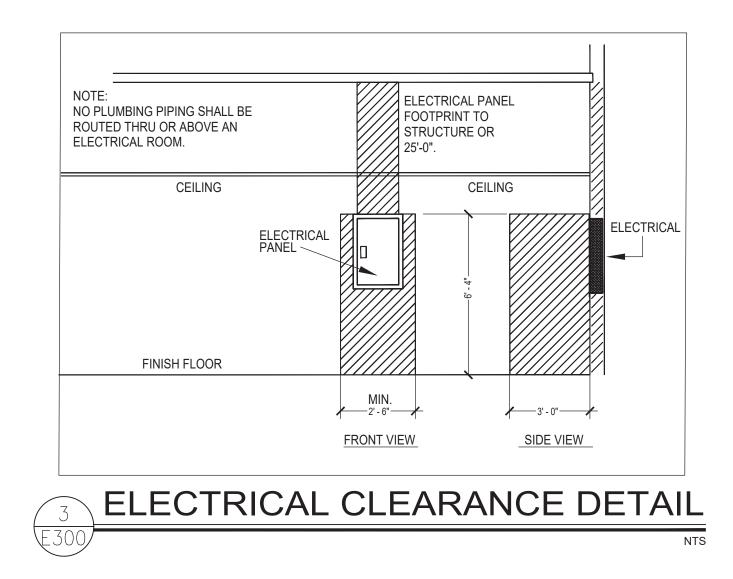






KEYED NOTES 🛞

- 1. COORDINATE WITH ARCHITECT TO PROVIDE 6" 6. EXISTING GENERATOR TO REMAIN. WALL FOR RECESS MOUNTING. 2. PROVIDE AND INSTALL 30A, 208V, 1PH, 3
- WIRE, HEAVY DUTY NEMA 3R NON-FUSED DISCONNECT. MAKE CONNECTIONS TO OVERHEAD DOOR. COORDINATE WITH EQUIPMENT INSTALLER FOR EXACT REQUIREMENTS PRIOR TO COMMENCING ANY WORK.
- 3. PROVIDE AND INSTALL 30A, 208V, 1PH 3 WIRE, HEAVY DUTY NEMA 3R NON-FUSED DISCONNECT. MAKE CONNECTION TO EXTRACTOR WITH WATER TIGHT FLEXIBLE CONDUIT. COORDINATE WITH EQUIPMENT INSTALLER FOR EXACT REQUIREMENTS PRIOR TO COMMENCING ANY WORK.
- 4. EXISTING ELECTRICAL METER TO BE REPLACED.REFER TO RISER DIAGRAM 1/E500
- 5. EXISTING DISCONNECT TO BE REPLACED. REFER TO RISER DIAGRAM 1/E500.



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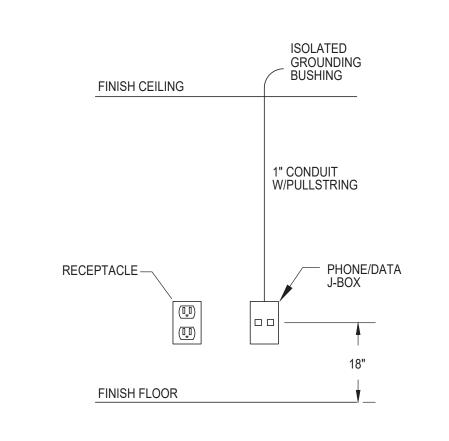


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- 7. PROVIDE AND INSTALL CABLE REEL ON CEILING. CABLE REEL TO BE CRCD123N50L20. PROVIDE WITH 20A RECEPTACLE, #12 AWG, MINIMUM. 50FT CABLE.
- 8. EXISTING AUTOMATIC TRANSFER SWITCH TO REMAIN.
- 9. PROVIDE AND INSTALL 2" CONDUIT WITH PULLSTRING FOR FUTURE AUTOMATIC TRANSFER SWITCH AND GENERATOR. COORDINATE WITH OWNER FOR EXACT LOCATION OF CONDUIT PRIOR TO COMMENCING ANY WORK.
- 10. PROVIDE AND INSTALL SPEAKERS ON CEILING. CONNECT TO EXISTING NOTIFICATION CONSOLE FOR ALERTS. COORDINATE WITH OWNER FOR EXACT REQUIREMENTS PRIOR TO COMMENCING ANY WORK.





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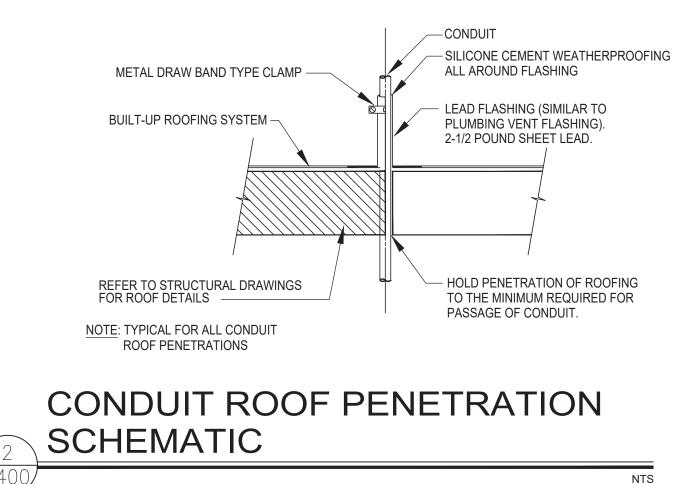
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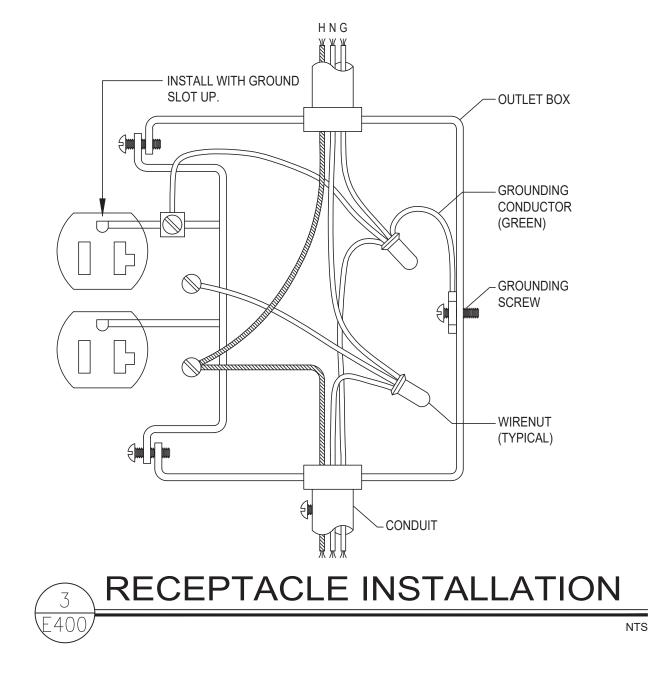


KEYED NOTES 🛞

- 1. PROVIDE AND INSTALL 30A, 208V, 1PH, 3 WIRE, HEAVY DUTY, NEMA 3R NON-FUSED DISCONNECT. MAKE CONNECTIONS TO CONDENSER UNIT WITH WATER TIGHT FLEXIBLE CONDUIT.
- 2. PROVIDE AND INSTALL 30A, 208V, 1PH, 3 WIRE, HEAVY DUTY, NEMA 3R NON-FUSED DISCONNECT. MAKE CONNECTIONS TO FAN COIL UNIT WITH WATER TIGHT FLEXIBLE CONDUIT.
- 3. INSTALL WEATHER PROOF, GFI, RECEPTACLE WITH WEATHER PROOF COVER. COORDINATE WITH MECHANICAL CONTRACTOR FOR EXACT LOCATION.
- 4. 1/2" CONDUIT WITH PULLSTRING, COORDINATE WITH MECHANICAL CONTRACTOR.
- 5. LOCATION OF THERMOSTAT, PROVIDE 4" SQ. J-BOX WITH PLASTER RING. COORDINATE WITH MECHANICAL CONTRACTOR FOR EXACT LOCATION.
- 6. INSTALL WEATHER PROOF SWITCH AS DISCONNECTING MEANS FOR EXHAUST FAN, MAKE CONNECTING WITH WATER TIGHT FLEXIBLE CONDUIT. COORDINATE WITH PLUMBING CONTRACTOR FOR EXACT LOCATION.
- 7. INSTALL WEATHER PROOF SWITCH AS DISCONNECTING MEANS FOR UNIT HEATER, MAKE CONNECTING WITH WATER TIGHT FLEXIBLE CONDUIT. COORDINATE WITH PLUMBING CONTRACTOR FOR EXACT LOCATION
- 8. 3/4" CONDUIT WITH ALL REQUIRED INTERCONNECTION WIRING, COORDINATE WITH MECHANICAL CONTRACTOR.
- 9. PROVIDE AND INSTALL RECEPTACLE FOR CONDENSATE PUMP. COORDINATE WITH MECHANICAL CONTRACTOR FOR EXACT LOCATION.
- 10. PROVIDE AND INSTALL 120V, 1PH SWITCH FOR EVAPORATIVE COOLER MOTOR. COORDINATE WITH MECHANICAL CONTRACTOR FOR EXACT LOCATION PRIOR TO COMMENCING ANY WORK.
- 11. FUTURE LOCATION OF OS-2 CONTROL PANEL FOR THE VEHICLE EXHAUST SYSTEM. COORDINATE WITH EQUIPMENT INSTALLER FOR EXACT REQUIREMENTS PRIOR TO COMMENCING ANY WORK. TO BE PROVIDED AND INSTALLED BY OWNER UNDER SEPARATE CONTRACT
- 12. PROVIDE AND INSTALL FUTURE 60A, 208V, 1PH, 3 WIRE, HEAVY DUTY, NEMA 3R NON-FUSED DISCONNECT. MAKE CONNECTIONS TO VEHICLE EXHAUST SYSTEM WITH WATER TIGHT FLEXIBLE CONDUIT. TO BE PROVIDED AND INSTALLED BY OWNER UNDER SEPARATE CONTRACT.
- 13. INSTALL WEATHER PROOF SWITCH AS DISCONNECTING MEANS FOR WATER HEATER, MAKE CONNECTING WITH WATER TIGHT FLEXIBLE CONDUIT. COORDINATE WITH PLUMBING CONTRACTOR FOR EXACT LOCATION.

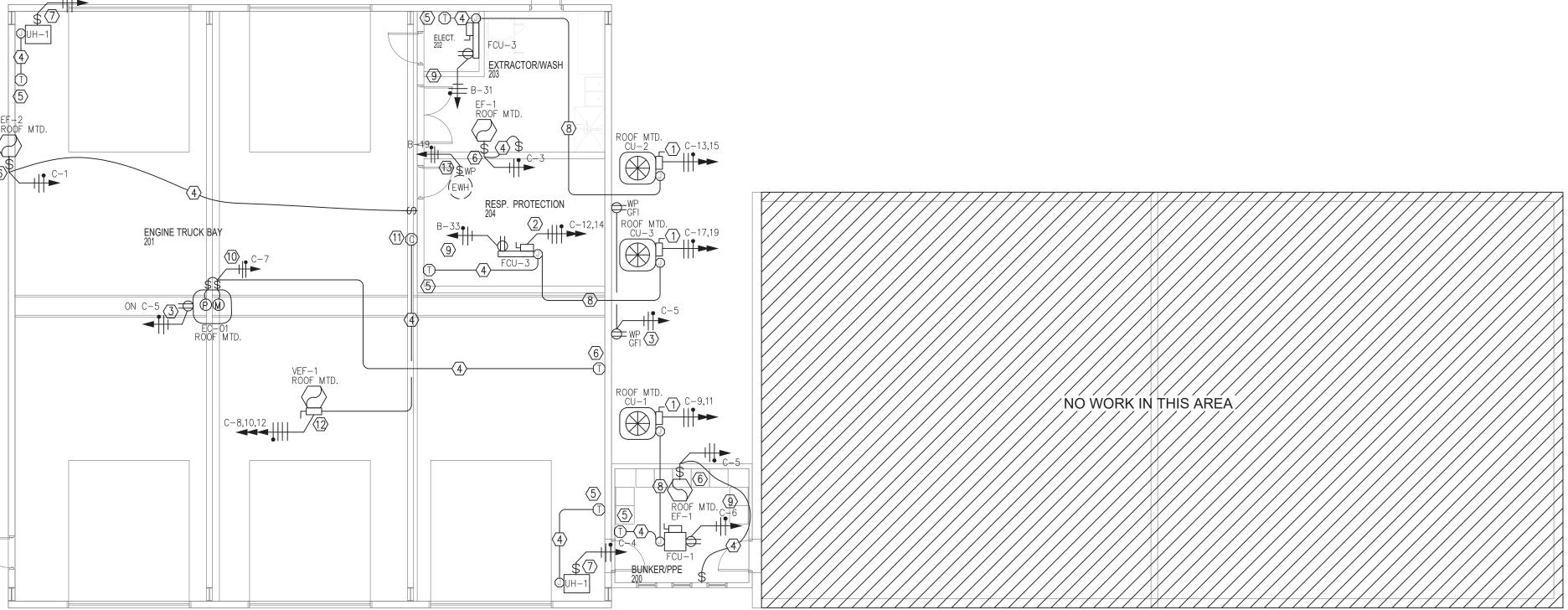


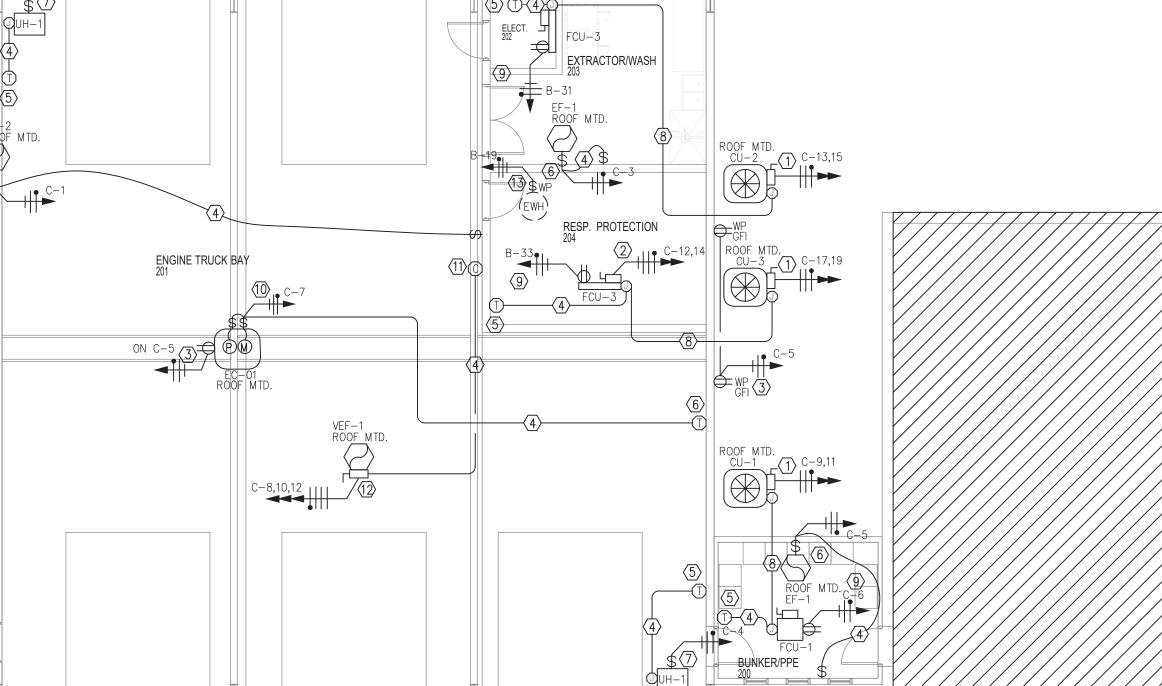
NOTE: CONTRACTOR TO COORDINATE WITH OWNER FOR ROOFING PENDETRATIONS IN ORDER TO MAINTAIN ROOF WARRANTY IN EFFECT.











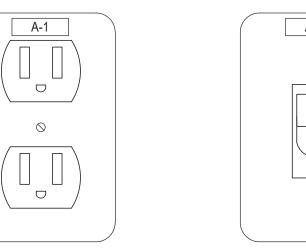


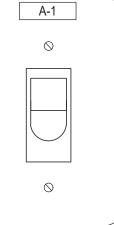
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RECEPTACLE AND SWITCH LABEL TYPICAL FOR ALL

NOTE: PROVIDE WITH 1/8" BLACK LETTER WITH WHITE LABELS, INDICATING PANEL AND CIRCUIT

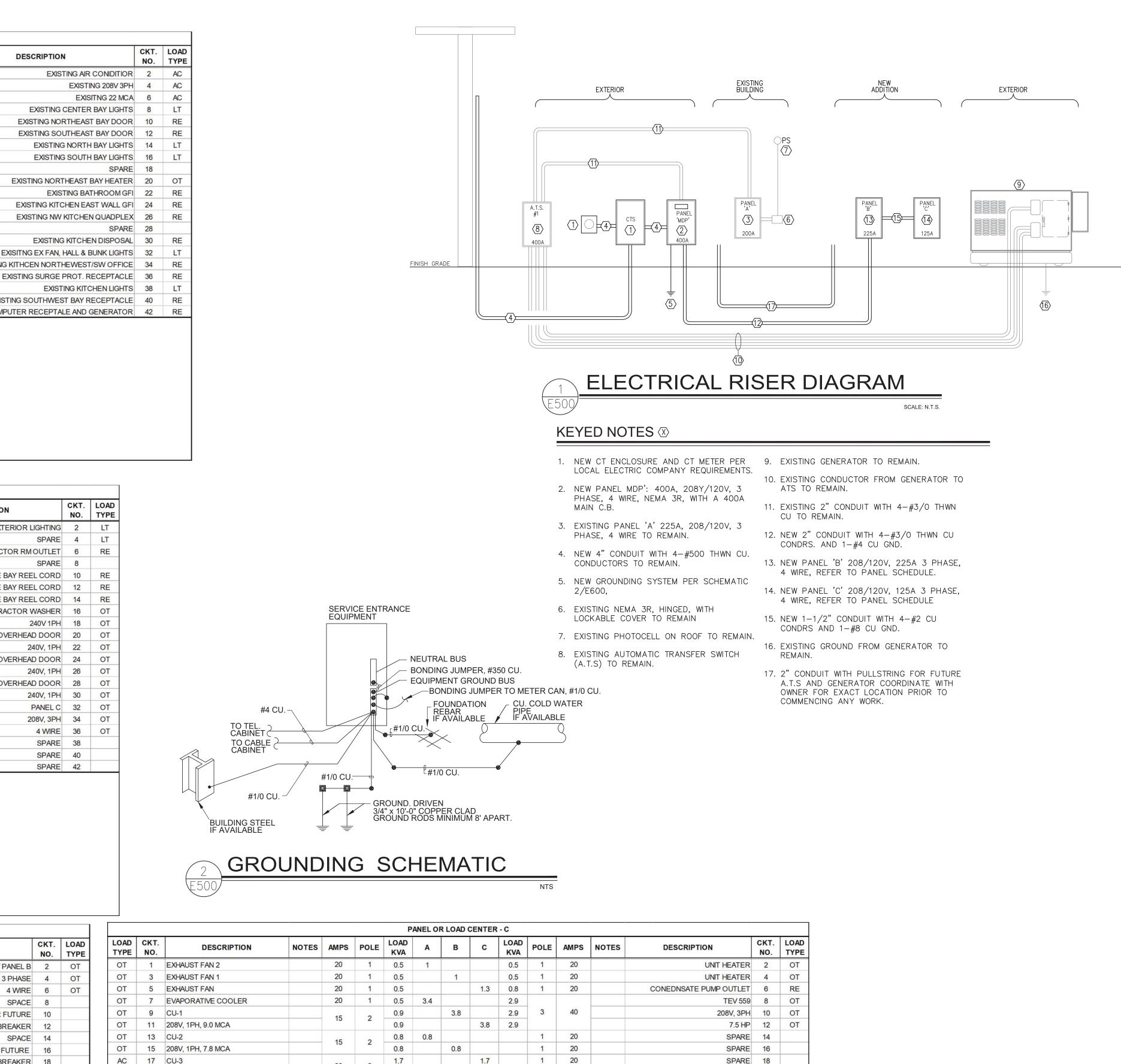
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LOAD	СКТ.	DESCRIPTION		NOTE	S AMP	S POL			LOAD	CENTER	LOA		AMPS	NOTES	DES	CRIPTIO	N
TYPE OT	NO .	EXISTING WATER HEATER		NOTE		5 POL	E KVA	A 6.5	B	, <u> </u>	KVA	FULL	- AWPS	NOTES	DES	EXIS	
OT	1	EXISTING WATER HEATER EXISTING 208V 3PH			30	3	3.9	6.5	6.	5	2.6	3	30			EXIS	5 T H
OT	5	EXISTING 32 MCA					3.9			6.5							
RE	7	EXISTING RANGE			50	2	4.0	4.8			0.8	1	20		2 A. 2010	XISTING	
RE RE	9 11	EXISTING RANGE EXISTING NORTHBAY RECEPTACI	FS		20	1	4.0		4.	8 1.6	0.8	1	20			TING NO	
OT	13	EXISTING SOUTHWEST BAY DOOL	2/22/2		20		0.8	1.6		1.0	0.8	1	20		EXC	EXISTIN	0.75.03
OT	15	EXISTING SOUTHWEST BAY HEAT			20		0.8		1.		0.8	1	20			EXISTIN	G
OT OT	17 19	EXISTING SOUTHWEST BAY DOOI EXISTING BAY EXHAUST FAN AND		2	20		0.8	1.6		0.8	0.8	1	20		EVIST	NG NOR	ть
RE	21	EXISTING SOUTHWEST BAR RECI		5	20		0.8	1.0	1.	6	0.8	1	20		EAIST	EXIS	_
OT	23	EXISTING RANGE HOOD			20	1	0.8			1.6	0.8	1	20		EXIS	TING KIT	CH
OT	25				20	1	0.8	<u>1.6</u>	-	<u></u>	0.8	1	20		EXIS	TING NW	K
OT OT	27 29	EXISTING CIRCUIT EXISTING CIRCUIT			30	2	2.9		2.	9 3.7	0.8	1	20			EXISTIN	Gł
RE	31	EXISTING PHONE BOARD RECEPT	ACLE		20	1	0.8	1.6		0.1	0.8	1	20		EXISITNG		
RE	33	EXISITNG DISHWASHER WITH FOU			20		0.8		1.		0.8	1	20		EXISTING KITHCE		
LT RE	35 37	EXISTING SOUTHWEST OFFICE/B		=	20		0.8	1.6		1.6	0.8 0.8	1	20		EXISTING	SURGE	
OT	39	EXISTING AIR COMPRESSOR	ECEPTACL	-			2.9	1.0	3.	7	0.8	1	20		EXISTING SC	100 C 100 C 100 C 100 C	
OT	41	EXISTING AIR COMPRESSOR			30	r 309073	2.9			3.7	-	1	20		EXISTING COMPUTER F	ECEPTA	LE
DANELDO		ODMATION		-				19.3			_						
DESIGNA		EXISTING A		-	10	TAL AMI	25	160.8	3 189	9.2 162.	.5				kVA		
MAIN SIZ		225A					CO	NECTED	DEC		DES	GN LOAD		PHAS			
MAIN TY	PE	M.L.O.				OAD TYPE	KVA	AMPS	DES	IGN FACTO	KVA	AMPS		PHA	SE B 22.7		
VOLTS		120/208			LIGHTS		4.80	13.3		1.25	6.00			PHA	SE C 19.5		
PHASE Wire		3 4			RECEPT		20.00			1.0	20.00		-	LINDAL	ANCE % 1/ 09		
Wire AIC RATII	NG	4 22 KAIC			MOTOF AC	N	0.00	0.0		NEC 1.25	0.00 9.75		-	UNBAL	ANCE % 14.98		
NEMA TY		INTERIOR			KITCHE	N	0.00	0.0		1.25	0.00			NOT	TES:		
MOUNTI	NG	SURFACE			OTHER		28.90			NEC	28.90	80.3					
SERVED F	ROM	200A, 3 POLE C.B. IN PANEL MDP			TOTAL		61.50	170.9	6		64.65	179.7					
		1					PANEL		DCEN	T T							
LOAD TYPE	CKT. NO.	DESCRIPTION	NOTES	AMPS	POLE	LOAD KVA	Α	в	С	LOAD KVA	POLE	AMPS	NOTES		DESCRIPTION		(
LT	1	ENGINE BAY LIGHTING		20	1	1.6	2.1			0.5	1	20			EXTERIOR I	IGHTING	
	3	SPARE		20	1			0			1	20				SPARE	
RE	5	ELEC RM AND OUTLETS		20	1	0.8			1.6	0.8	1	20			EXTRACTOR RM		
RE RE	7 9	RESP PROTECTION OUTLETS ENGINE BAY OUTLETS		20 20	1	0.8	0.8	1.6		0.8	1	20 20			ENGINE BAY REE	SPARE	-
RE	9 11	ENGINE BAY OUTLETS		20	1	0.8		1.0	1.6	0.8	1	20			ENGINE BAY REE		-
RE	13	ENGINE BAY REEL CORD		20	1	0.8	1.6			0.8	1	20		ENGINE BAY R			-
OT	15	EXTRACTOR WASHER		30	2	2.0		4		2	2	30			EXTRACTOR	WASHER	
OT	17	240V 1PH			1.000	2.0	COMPANY OF		4	2	2	50			242	240V 1PH	-
OT	19	WATER HEATER		20	1	0.8	2.8	-		2	2	30			OVERHEA		-
от	21 23	SPARE OVERHEAD DOOR		20	1	2.0		2	4	2					2 OVERHEA	40V, 1PH	-
от	25	240V, 1PH		30	2	2.0	4		4	2	2	30				40V, 1PH	-
ОТ	27	OVERHEAD DOOR		30	2	2.0		4		2	2	30			OVERHEA		-
OT	29	240V, 1PH			2	2.0			4	2	2	30	-		2	40V, 1PH	
RE	31	CONDENSATE PUMP OUTLET		20	1	0.8	7.7	0.0		6.9	3	100				PANEL C	-
RE	33 35	CONDENSATE PUMP OUTLET SPACE		20 20	1	0.8		6.6	7	5.8 7	3	100			2	08V, 3PH	-
-	37	SPARE		20	1		0				1	20				SPARE	-
	39	SPARE		20	1			0			1	20				SPARE	
	41	SPARE		20	1		10	10.0	0		1	20				SPARE	
PANELBO	DARD INF	ORMATION			AL KVA L AMPS		19 158.3		22.2 185.0								
DESIGNA		В		r		-					1			kV			
MAIN SIZ MAIN TY		225A M.L.O.		LOAD	ТҮРЕ		CTED AMPS	DESIGN FA	ACTOR	DESIGN KVA	LOAD		PHAS PHAS				
VOLTS	rc.	120/208		LIGHTS		2.10	5.8	1.25		2.63	7.3		PHAS				
PHASE		3		RECEPTACL	ES	8.80	24.5	1.0		8.80	24.5						
Wire		4		MOTOR		0.00	0.0	NEC		0.00	0.0		UNBALA	NCE % 18.	02		
AIC RATI		22 KAIC INTERIOR		AC KITCHEN		0.00	0.0	1.25		0.00	0.0		NOT				
MOUNTI		RECESSED		OTHER		48.50	0.0	1.0 NEC		48.50	0.0		NOT				
SERVED	ROM	200A, 3 POLE C.B. IN PANEL MDP		TOTAL		59.40	165.1			59.93	166.5						
						PAN		AD CEN	TER - I	MDP							
LOAD TYPE	CKT. NO.	DESCRIPTION	NOTES	AMPS	POLE	LOAD KVA	A	в	С	LOAD KVA	POLE	AMPS	NOTES	C	DESCRIPTION	CKT. NO.	L
OT	1	EXISTING PANEL A		000		19.3	38.3	10.5		19		200			NEW PANEL B	2	
OT OT	3 5	208/120V 3 PHASE 4 WIRE		200	3	22.7 19.5		40.9	41.7	18.2 22.2	3	200			208/120V, 3 PHASE 4 WIRE	4	
51	5	4 WIRE SPACE				18.0	0		71.7	LL.L					4 WIRE SPACE	8	
	9	FOR FUTURE		60	3			0			3	60			FOR FUTURE		
	11	CIRCUIT BREAKER							0						CIRCUIT BREAKER	12	
		SPACE		00			0				•	20			SPACE	14	
	13	FOR FUTURE		30	3			0	0		3	30			FOR FUTURE CIRCUIT BREAKER	16 18	
	15				AL KVA		38.3	40.9	41.7							10	
	No. 24	CIRCUIT BREAKER	~	TOT													
PANELBO	15 17				AMPS		319.2 3	340.8 3	47.5								
DESIGNA	15 17 ARD INFC	CIRCUIT BREAKER					i	340.8 3	47.5					kVA			
DESIGNA MAIN SIZ	15 17 ARD INFC TION E	CIRCUIT BREAKER DRMATION MDP 400A				CONNEG		040.8 3	CTOR	DESIGN		14	PHASE	A 38.3	3		
DESIGNA MAIN SIZ MAIN TYF	15 17 ARD INFC TION E	CIRCUIT BREAKER DRMATION MDP 400A M.L.O.		LOAD 1			CTED I MPS	DESIGN FA	CTOR	KVA A	AMPS		PHASE	A 38.3 B 40.9	3 9		
DESIGNA MAIN SIZ MAIN TYF /OLTS	15 17 ARD INFC TION E	CIRCUIT BREAKER DRMATION MDP 400A		ΤΟΤΑΙ	AMPS	CONNEG			CTOR	T				A 38.3 B 40.9	3 9		
DESIGNA MAIN SIZ MAIN TYF VOLTS PHASE	15 17 ARD INFC TION E	CIRCUIT BREAKER DRMATION MDP 400A M.L.O. 120/208		TOTAL LOAD 1	AMPS	CONNEC KVA A 0.00	MPS 0.0	DESIGN FA	CTOR	KVA A 0.00	0.0		PHASE	A 38.3 B 40.9 C 41.7	3 9 7		
PANELBO DESIGNA MAIN SIZ MAIN TYF VOLTS PHASE Wire AIC RATIN	15 17 ARD INFO TION E PE	CIRCUIT BREAKER DRMATION MDP 400A M.L.O. 120/208 3		LOAD T LIGHTS RECEPTACLI MOTOR AC	AMPS	CONNEC (VA A 0.00 0.00	0.0 0.0	DESIGN FA 1.25 1.0	CTOR	KVA A 0.00 0.00	0.0 0.0		PHASI PHASI UNBALAN	A 38.3 B 40.9 C 41.7 ICE % 8.19	3 9 7		
DESIGNA MAIN SIZ MAIN TYF VOLTS PHASE Wire	15 17 ARD INFO TION E PE	CIRCUIT BREAKER DRMATION MDP 400A M.L.O. 120/208 3 4		LOAD T LIGHTS RECEPTACLI MOTOR	AMPS	CONNEC (VA A 0.00 0 0.00 0 0.00 0 0.00 0	CTED I MPS 0.0 0.0 0.0	DESIGN FA 1.25 1.0 NEC	CTOR -	KVA A 0.00 0.00 0.00 0.00	0.0 0.0 0.0 0.0		PHASI	A 38.3 B 40.9 C 41.7 ICE % 8.19	3 9 7		



						F	PANEL O	RLOAD	CENTER	- C						
LOAD TYPE	CKT. NO.	DESCRIPTION	NOTES	AMPS	POLE	LOAD KVA	Α	в	с	LOAD KVA	POLE	AMPS	NOTES	DESCRIPTION	CKT. NO.	LOA TYP
OT	1	EXHAUST FAN 2		20	1	0.5	1			0.5	1	20		UNIT HEATER	2	OT
OT 3		EXHAUST FAN 1		20	1	0.5		1		0.5	1	20		UNIT HEATER	4	OT RE
OT	OT 5 EXHAUST FAN			20	1	0.5			1.3	<mark>0.8</mark>	1	20		CONEDNSATE PUMP OUTLET		
OT	7	EVAPORATIVE COOLER		20	1	0.5	3.4			2.9				TEV 559	8	OT
OT	9	CU-1		0.9 3.8			2.9	3	40		208V, 3PH	10	OT			
OT	11	208V, 1PH, 9.0 MCA		15	2	0.9			3.8	2.9				7.5 HP	12	OT
OT	13	CU-2		15	2	0.8	0.8				1	20		SPARE	14	
OT	15	208V, 1PH, 7.8 MCA		15	2	0.8		0.8			1	20		SPARE	16	
AC	17	CU-3		20	2	1.7			1.7		1	20		SPARE	18	
AC	19	208V, 1PH 16.5 MCA		20		1.7	1.7				1	20		SPARE	20	
OT	21	FCU-3		15	2	0.2		0.2			1	20		SPARE	22	
OT	23	208V, 1PH 1.6 MCA		15	2	0.2			0.2		1	20		SPARE	24	
	25	SPARE		20	1		0				1	20		SPARE	26	
	27	SPARE		20	1			0			1	20		SPARE	28	
	29	SPARE		20	1				0		1	20		SPARE	30	
			-	TO	TAL KVA		6.9	5.8	7							
PANELBO	ARD INFO	DRMATION		TOTA	AL AMPS		57.5	48.3	58.3							
DESIGNA	ΠΟΝ	С					-							kVA		
MAIN SIZ	E	125A			TYPE	CON	NECTED	DESIGN	FACTOR	DESIG	N LOAD		PHASE	A 6.9		
MAIN TYP	Έ	M.L.O.		LUAL		KVA	AMPS	DESIGN	FACTOR	KVA	AMPS		PHASE	B 5.8		
/OLTS		120/208		LIGHTS		0.00	0.0	1	.25	0.00	0.0		PHASE	C 7		
HASE		3		RECEPTAC	CLES	0.80	2.2	1	L.O	0.80	2.2					
Wire		4		MOTOR		0.00	0.0	N	IEC	0.00	0.00 0.0		UNBALAN	NCE % 17.14		
AIC RATIN	IG	12 KAIC		AC		3.40	9.4	1	.25	4.25	11.8					
	PE	INTERIOR		KITCHEN		0.00	0.0	1	L.O	0.00	0.0		NOTE	S:		
	IG	RECESSED		OTHER		15.50	43.1	N	IEC	15.50	43.1					

20.55 57.1

TOTAL

19.70 54.7

SERVED FROM 100A, 3 POLE C.B. IN PANEL B

ER NTS.	9.	EXISTING GENERATOR TO REMAIN.	
3	10.	EXISTING CONDUCTOR FROM GENERATOR TO ATS TO REMAIN.	
AC	11.	EXISTING 2" CONDUIT WITH 4-#3/0 THWN CU TO REMAIN.	
3	12.	NEW 2" CONDUIT WITH 4-#3/0 THWN CU CONDRS. AND 1-#4 CU GND.	
CU. TIC	13.	NEW PANEL 'B' 208/120V, 225A 3 PHASE, 4 WIRE, REFER TO PANEL SCHEDULE.	
	14.	NEW PANEL 'C' 208/120V, 125A 3 PHASE, 4 WIRE, REFER TO PANEL SCHEDULE	
IAIN. H	15.	NEW 1-1/2" CONDUIT WITH 4-#2 CU CONDRS AND 1-#8 CU GND.	
	16.	EXISTING GROUND FROM GENERATOR TO REMAIN.	
	17.	2" CONDUIT WITH PULLSTRING FOR FUTURE	

REVISION

DATE

Studio D

Arc

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