INDEX TO DRAWINGS

SITE 37 RODEO ROAD CUBA, NM 87013

NORTH

PROPERTY INFORMATION

Project:	NEW MUTI–USE BUILDING
Project Address:	37 RODEO ROAD, CUBA, NM 87013

BUILDING AREAS

NEW BUILDING	6,500 SQUARE FEET
TOTAL	6,500 SQUARE FEET

PROJECT TEAM

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SYMBOLS LEGEND

- XX / XXX — INTERIOR ELEVATION
- 8 — DOOR NUMBER
- ENTRY — ROOM NAME
- 001 — ROOM NUMBER
- 33 — KEYNOTE
- XX / XXX — EXTERIOR ELEVATION
- 1 / A401 — SECTION OR DETAIL CALL-OUT
- XX / XXX — BUILDING SECTION
- XX / XXX — WALL OR DETAIL SECTION
- XX — FRAME OR WINDOW TYPE
- X — PARTITION / WALL TYPE
- 112'–4" T.O.PARAPET — CONTROL OR DATA ELEVATION
- A — TOILET ROOM ACCESSORY
- 1 — EQUIPMENT TAG
- CPT VCT — EDGE OF FLOOR FINISH
- FC — STUCCO COLOR, SEE SPECS.

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STATE OF NEW MEXICO
G. DONALD DUDLEY, JR.
No. 3673
01/14/2019
REGISTERED ARCHITECT

NEW BUILDING FOR: Sandoval County Recreation Center Building at the Fairgrounds
37 Rodeo Road Cuba, NM 87013

MARK	DATE	DESCRIPTION

GDDA PROJECT NO: 17–113
DATE: 01/14/2019
DRAWN BY: gdd
CHECKED BY: gdd
SET NO:
SHEET TITLE: DRAWING INDEX, LOT INFORMATION.

G001

BUILDING AREA

	HEATED
1st FLOOR	6,500
T O T A L	6,500 (GSF)

Occupancy Group: A-3 § 303.4

Construction: TYPE II-B (NON-COMBUSTIBLE CONSTRUCTION) § 601

CALCULATED OCCUPANCY per § table 1004.1.2

1ST FLOOR: 296 OCCUPANTS

296 TOTAL CALCULATED OCCUPANTS

BUILDING DATA

Project Type: NEW GYM FACILITY WITH TOILETS AND SHOWERS

CHAPTER 3: USE AND OCCUPANCY CLASSIFICATION

SECTION 303.4: ASSEMBLY GROUP A-3

CHAPTER 5: GENERAL BUILDING HEIGHTS AND BUILDING AREAS

TABLE 503: ALLOWABLE BUILDING HEIGHTS AND AREAS

FLOOR AREA: A3 IIB

9,500* ALLOWABLE AREA FACTOR (PER FLOOR) § Table 506.2 x 2 ALLOWABLE NUMBER OF STORIES ABOVE GRADE PLANE § Table 504.4 55' ALLOWABLE BUILDING HEIGHT IN FEET ABOVE GRADE PLANE § Table 504.3 = 9,500* Allowable ⇨ 6,500* Actual

*NO SPRINKLER REQUIREMENT

SECTION 508: MIXED USE AND OCCUPANCY

SECTION 508.2: ACCESSORY OCCUPANCIES

ACCESSORY OCCUPANCIES ARE THOSE OCCUPANCIES THAT ARE ANCILLARY TO THE MAIN OCCUPANCY OF THE BUILDING OR PORTION THEREOF

ACCESSORY OCCUPANCIES: S

SECTION 508.2.4: SEPARATION OF OCCUPANCIES

NO SEPARATION IS REQUIRED BETWEEN ACCESSORY OCCUPANCIES AND THE MAIN OCCUPANCY.

TABLE 508.2.5: INCIDENTAL ACCESSORY AREAS

1 HOUR OR PROVIDE AUTOMATIC FIRE-EXTINGUISHING SYSTEM (FOR THE FOLLOWING):

FURNACE ROOM WHERE ANY PIECE OF EQUIPMENT IS OVER 400,000 BTU PER HOUR INPUT (NONE REQUIRED THIS PROJECT)

CHAPTER 6: TYPES OF CONSTRUCTION

TABLE 601: FIRE RESISTANCE RATING REQUIREMENTS FOR BUILDING ELEMENTS

CONSTRUCTION TYPE II-B

PRIMARY STRUCTURAL FRAME:	0 HOUR
BEARING WALLS (EXTERIOR, INTERIOR)	0 HOUR
NON BEARING WALLS (EXTERIOR, INTERIOR)	0 HOUR
FLOOR CONSTRUCTION	0 HOUR
ROOF CONSTRUCTION	0 HOUR

CHAPTER 7: FIRE AND SMOKE PROTECTION FEATURES

SECTION 708: SHAFT ENCLOSURES

SECTION 708.1: GENERAL

THE PROVISIONS OF THIS SECTION SHALL APPLY TO SHAFTS REQUIRED TO PROTECT OPENINGS AND PENETRATIONS THROUGH FLOOR/CEILING AND ROOF/CEILING ASSEMBLIES. SHAFT ENCLOSURES SHALL BE CONSTRUCTED AS FIRE BARRIERS IN ACCORDANCE WITH SECTION 707 OR HORIZONTAL ASSEMBLIES IN ACCORDANCE WITH SECTION 712, OR BOTH.

TABLE 708.4: FIRE-RESISTANCE RATING

SHAFT ENCLOSURES SHALL HAVE A FIRE-RESISTANCE RATING OF NOT LESS THAN 2 HOURS WHERE CONNECTING FOUR STORIES OR MORE, AND NOT LESS THAN 1 HOUR WHERE CONNECTING LESS THAN FOUR STORIES. THE NUMBER OF STORIES CONNECTED BY THE SHAFT ENCLOSURE SHALL INCLUDE ANY BASEMENTS BUT NOT ANY MEZZANINES. SHAFT ENCLOSURES SHALL HAVE A FIRE-RESISTANCE RATING NOT LESS THAN THE FLOOR ASSEMBLY PENETRATED, BUT NEED NOT EXCEED 2 HOURS. SHAFT ENCLOSURES SHALL MEET THE REQUIREMENTS OF SECTION 703.2.1.

NO FIRE RATED SHAFTS REQUIRED

BUILDING DATA CONTINUED

CHAPTER 9: FIRE PROTECTION SYSTEMS

903.2.1.3 GROUP A-3

GROUP A-3. AN AUTOMATIC SPRINKLER SYSTEM SHALL BE PROVIDED FOR GROUP A-3 OCCUPANCIES WHERE ONE OF THE FOLLOWING CONDITIONS EXISTS:
1. THE FIRE AREA EXCEEDS 12,000 SQUARE FEET
2. THE FIRE AREA HAS AN OCCUPANT LOAD OF 300 OR MORE;
OR
3. THE FIRE AREA IS LOCATED ON A FLOOR OTHER THAN A LEVEL OF EXIT DISCHARGE SERVING SUCH OCCUPANCIES.

NO SPRINKLER REQUIREMENT

PORTABLE FIRE EXTINGUISHERS

TABLE 906.3(1):

LIGHT (LOW) HAZARD OCCUPANCY

(1) 2A-10BC (Min.) extinguisher required per 3,000 square feet Maximum travel distance to extinguisher = 75 feet

SECTION 907: FIRE ALARM AND DETECTION SYSTEMS

SECTION 907.2: WHERE REQUIRED-NEW BUILDINGS AND STRUCTURES

AN APPROVED FIRE ALARM SYSTEM INSTALLED IN ACCORDANCE WITH THE PROVISIONS OF THIS CODE AND NFPA 72 SHALL BE PROVIDED IN NEW BUILDINGS AND STRUCTURES IN ACCORDANCE WITH SECTIONS 907.2.1 THROUGH 907.2.23 AND PROVIDE OCCUPANT NOTIFICATION IN ACCORDANCE WITH SECTION 907.5, UNLESS OTHER REQUIREMENTS ARE PROVIDED BY ANOTHER SECTION OF THIS CODE.

SECTION 907.2.1: GROUP A

A MANUAL FIRE ALARM SYSTEM THAT ACTIVATES THE OCCUPANT NOTIFICATION SYSTEM IN ACCORDANCE WITH SECTION 907.5 SHALL BE INSTALLED IN GROUP A OCCUPANCIES HAVING AN OCCUPANT LOAD OF 300 OR MORE.

A-3, 296 OCCUPANTS. FIRE ALARM NOT REQUIRED

CHAPTER 10: MEANS OF EGRESS

SECTION 1004.1: DESIGN OCCUPANT LOAD: 296 TOTAL OCCUPANTS

SECTION 1005 & 1021; EGRESS WIDTH AND NUMBER OF EXITS

	TOTAL OCCUPANTS	MIN. EGRESS WIDTH DOORS	TABLE 1006.3.1 EXITS REQUIRED	EXITS PROVIDED
FIRST FLOOR	296	x 0.2 = 58.4"	2	3

SECTION 1017: EXIT ACCESS TRAVEL DISTANCE

1017.3 MEASUREMENT. EXIT ACCESS TRAVEL DISTANCE SHALL BE MEASURED FROM THE MOST REMOTE POINT WITHIN A STORY ALONG THE NATURAL AND UNOBSTRUCTED PATH OF HORIZONTAL AND VERTICAL EGRESS TRAVEL TO THE ENTRANCE TO AN EXIT.

REQUIRED: 200'-0" TABLE 1017.2
PROVIDED: 65'-3"

BUILDING DATA CONTINUED

OCCUPANT LOAD: 1st FLOOR per § table 1004.1.1

ROOM NAME	OCC. CALC.	AREA	OCC. LOAD
GYM	15 NET	4,403	293.5
STORAGE	300 GROSS	253	.84
JANITOR	300 GROSS	46	.15
ELEC./MECH.	300 GROSS	95	.32
		RAW TOTAL	294.81
		ADJUSTED TOTAL	296

CHAPTER 29: PLUMBING SYSTEMS

REQUIRED FIXTURES - MALE

OCCUPANCY	OCCUPANT LOAD	WATER CLOSETS RATE	WATER CLOSETS NUMBER	LAVATORIES RATE	LAVATORIES NUMBER
A-3	148	1 PER 125	1.18	1 PER 200	.745
		Raw Totals	1.18		.745
		Required	2		1

PROVIDED FIXTURES

	WATER CLOSETS	URINALS	LAVATORIES
REQUIRED FIXTURES - MALE	2		1
PROVIDED FIXTURES - MALE	3	2	3

REQUIRED FIXTURES - FEMALE

OCCUPANCY	OCCUPANT LOAD	WATER CLOSETS RATE	WATER CLOSETS NUMBER	LAVATORIES RATE	LAVATORIES NUMBER
A-3	148	1 PER 65	2.28	1 PER 200	.74
		Raw Totals	2.28		.74
		Required	3		1

PROVIDED FIXTURES

	WATER CLOSETS		LAVATORIES
REQUIRED FIXTURES - FEMALE	3		1
PROVIDED FIXTURES - FEMALE	7		3

DRINKING FOUNTAINS AND SERVICE SINKS

OCCUPANCY	OCCUPANT LOAD	DRINKING FOUNTAINS RATE	DRINKING FOUNTAINS NUMBER	SERVICE SINK RATE	SERVICE SINK NUMBER
A-3	296	1/500	.592		1
		Raw Totals	.592		1
		Required	1		1
		PROVIDED	1		1

APPLICABLE CODES

-NEW MEXICO MECHANICAL CODE 2009
-NEW MEXICO PLUMBING CODE; INCLUDING APPENDIX CHAPTERS A,B,D,E,F,I, AND L 2009
-NEW MEXICO COMMERCIAL BUILDING CODE INCLUDING APPENDIX CHAPTERS E & I, BUT NOT INCLUDING APPENDIX CHAPTERS A,B,C,D,F,G,H,J, AND K 2015
-NEW MEXICO ELECTRICAL CODE 2011
-INTERNATIONAL BUILDING CODE 2009
-UNIFORM MECHANICAL CODE 2009
-UNIFORM PLUMBING CODE 2009
-NATIONAL ELECTRICAL CODE, LATEST EDITION
-NEW MEXICO ENERGY CONSERVATION CODE, 2009
-INTERNATIONAL ENERGY CONSERVATION CODE, 2009
-ANSI a117.1.2003

OTHER COMPLIANCE STANDARDS

-2010 ADA STANDARDS FOR ACCESSIBLE DESIGN

CODE SYMBOLS LEGEND

OFFICE 193 APPROX. FLOOR AREA OF ROOM OR AREA
100 OCCUPANT LOAD FACTOR (SQUARE FEET)
2 CALCULATED OCCUPANT LOAD § Table 1004.1.1
1 NUMBER OF EXITS REQUIRED § 1015

180 / 12 / D / 36" EGRESS CAPACITY OF DOOR AT 0.2"/PERSON § 1005.1; CALCULATED NUMBER OF PERSONS USING THIS DOOR; WIDTH OF DOOR (IN INCHES)

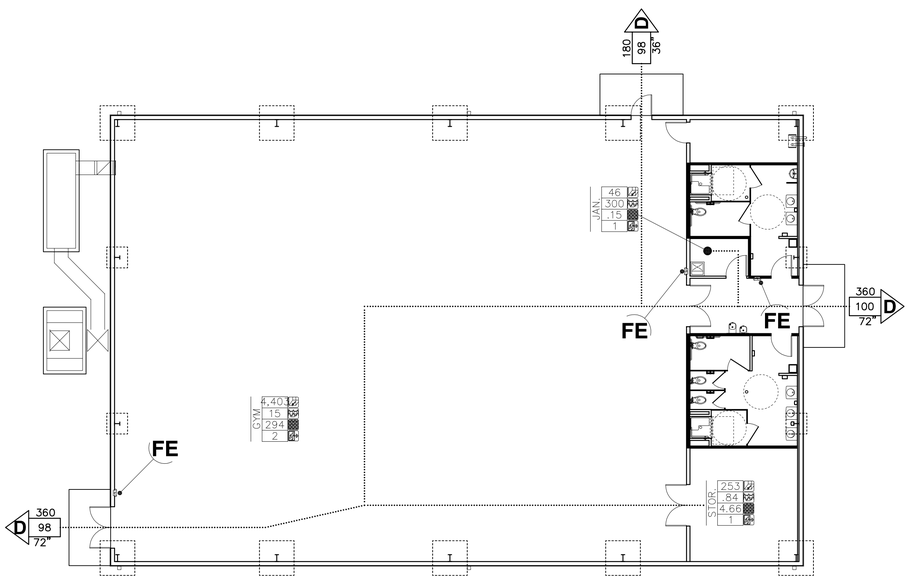
160 / STAIR / 48" EGRESS CAPACITY OF DOOR AT 0.3"/PERSON § 1005.1; WIDTH OF STAIR (IN INCHES)

EGRESS PATHWAY / ACCESSIBLE ROUTE

FE 10 LB. FIRE EXTINGUISHER IN SEMI-RECESSED CABINET.

FE K 60 LB. K-RATED FIRE EXTINGUISHER ON BRACKET

NOTE: CODE ANALYSIS REFLECTS MEETING WITH MARTIN ROMERO AND JODY ROYBAL, 10/13/2017. ALL VALUES WERE REVIEWED AND PRELIMINARILY APPROVED.



B1 GROUND LEVEL PLAN
3/32"=1'-0"

NORTH

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STATE OF NEW MEXICO
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No. 3673
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37 Rodeo Road
Cuba, NM 87013

MARK	DATE	DESCRIPTION

GDDA PROJECT NO: 17-113
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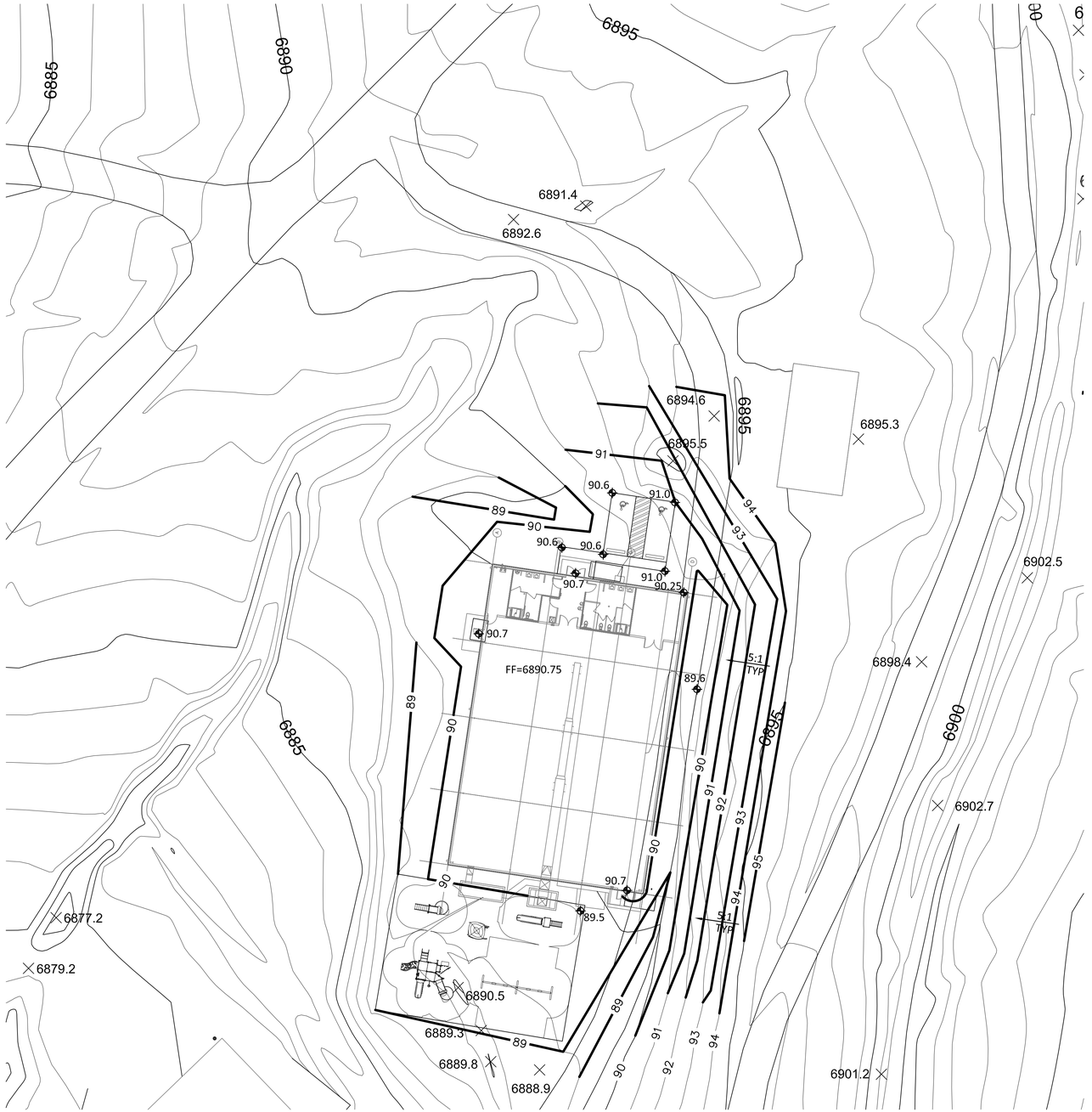
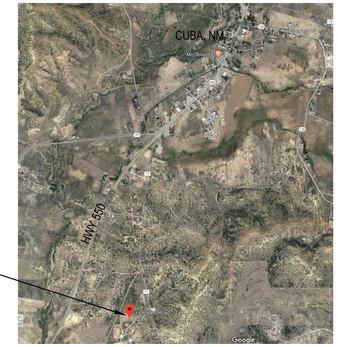
SHEET TITLE: CODE ANALYSIS

G101



A1 GRADING PLAN
1"=20'

0 20' 40'



VICINITY MAP

LEGEND

	EXISTING CONSTRUCTION
	NEW CONTOUR
FF=6890.75	EXISTING BUILDING FINISH FLOOR ELEV
65.5	NEW SPOT ELEVATION
	NEW CONSTRUCTION
RD	ROOF DRAIN
TC	TOP OF CURB
FL	FLOWLINE

DRAINAGE ANALYSIS

PROJECT: Sandoval County Recreation Center

AREA:15,680 sf (0.36 acre)

FLOOD HAZARD: From FEMA Panel 35043C0350D (dated 3/18/08), this site is within the Sandoval County Unincorporated with minimal flood hazard area determined to be Zone 'X'.

EXISTING CONDITIONS: The existing site is partially developed with scattered buildings serving as rodeo grounds. The building pad site is fairly flat but slopes down from the east to the west at 2-4%.

PROPOSED IMPROVEMENTS: The proposed improvements include a 7,000 SF metal building with two new accessible parking spaces. The proposed building and parking area will drain to the east and west sides of the building. Runoff will be carried overland toward the south end of the building and enter natural drainage courses.

DRAINAGE APPROACH: The drainage plan follows historic drainage patterns. The minor increase in runoff will be detained at a larger detention area onsite located downstream.

Existing land treatment: 100% dirt and gravel -- C=0.6
Q= C I A = (0.6)(5.4"/HR)(0.36)=1.2 cfs

Proposed land treatment: 52% dirt (C=0.6) and 48% impervious (C=0.95)
Q= [(0.52)(0.6)+(.48)(0.95)](5.4"/HR)(.36)= 1.5 cfs

The proposed improvements increase site runoff slightly, but the increase will be contained by onsite detention ponding and will not have an adverse impact.

NOTE: GRADING WORK BY OWNER, N.I.C.

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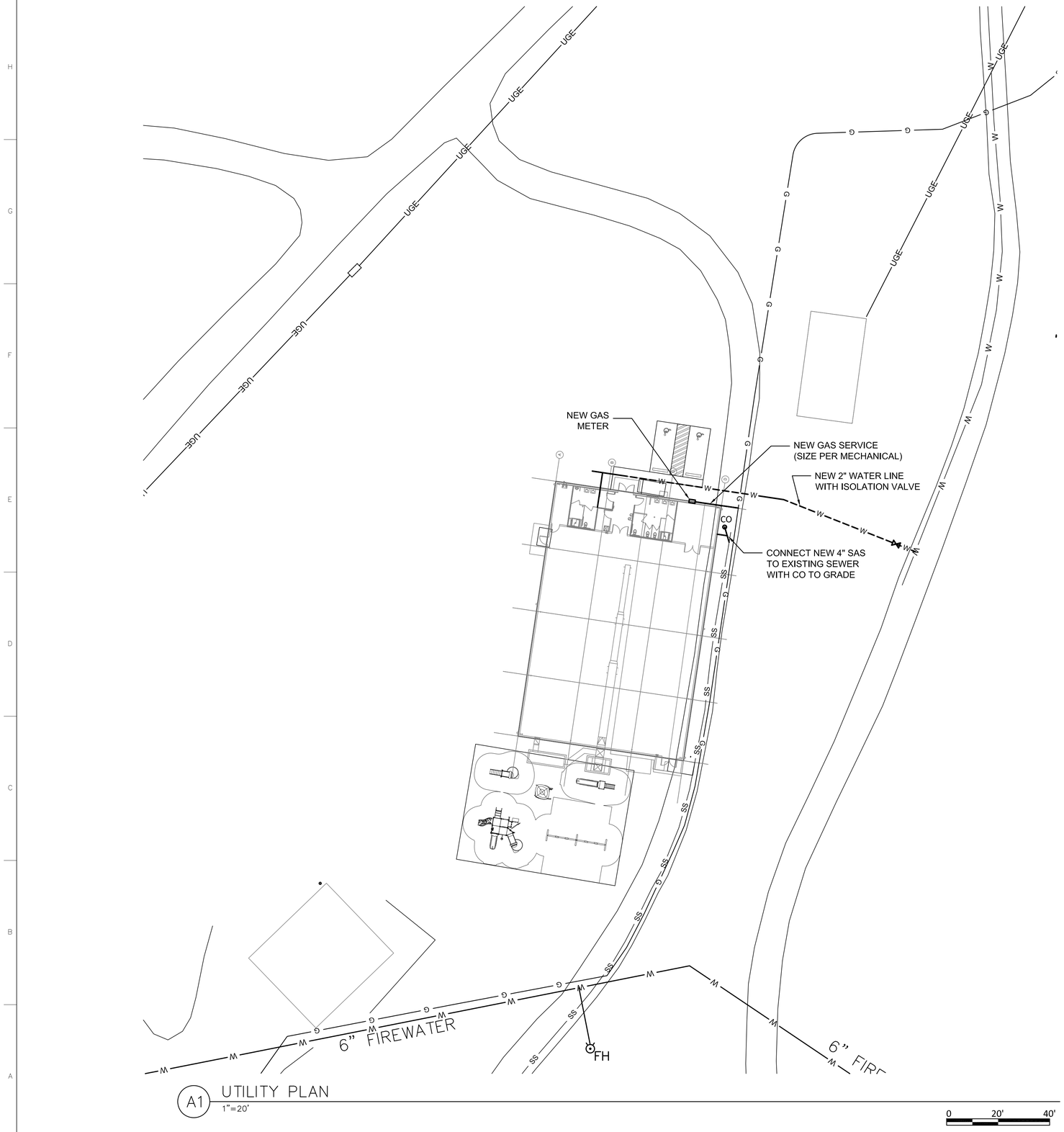
6/18/18

NEW BUILDING FOR
Sandoval County
Recreation Center Building
at the Fairgrounds
37 Rodeo Road
Cuba, NM 87013

MARK	DATE	DESCRIPTION

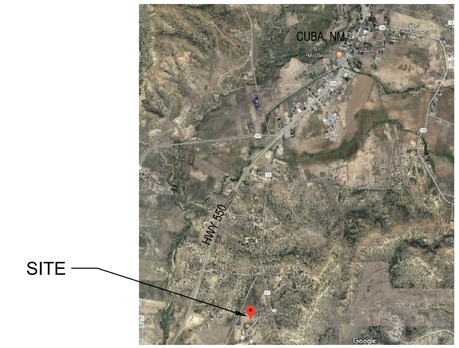
GDDA PROJECT NO: 17-113
DATE: 5/31/2018
DRAWN BY: JSK
CHECKED BY: SM
SET NO:
SHEET TITLE: GRADING PLAN

C-101



A1 UTILITY PLAN
1"=20'

0 20' 40'



SITE

VICINITY MAP

LEGEND

	EXISTING CONSTRUCTION
	NEW CONTOUR
FF=6890.75	EXISTING BUILDING FINISH FLOOR ELEV
65.5	NEW SPOT ELEVATION
	NEW CONSTRUCTION
RD	ROOF DRAIN
TC	TOP OF CURB
FL	FLOWLINE
	OVERHEAD ELECTRICAL
	GAS LINE
CO	CLEAN OUT

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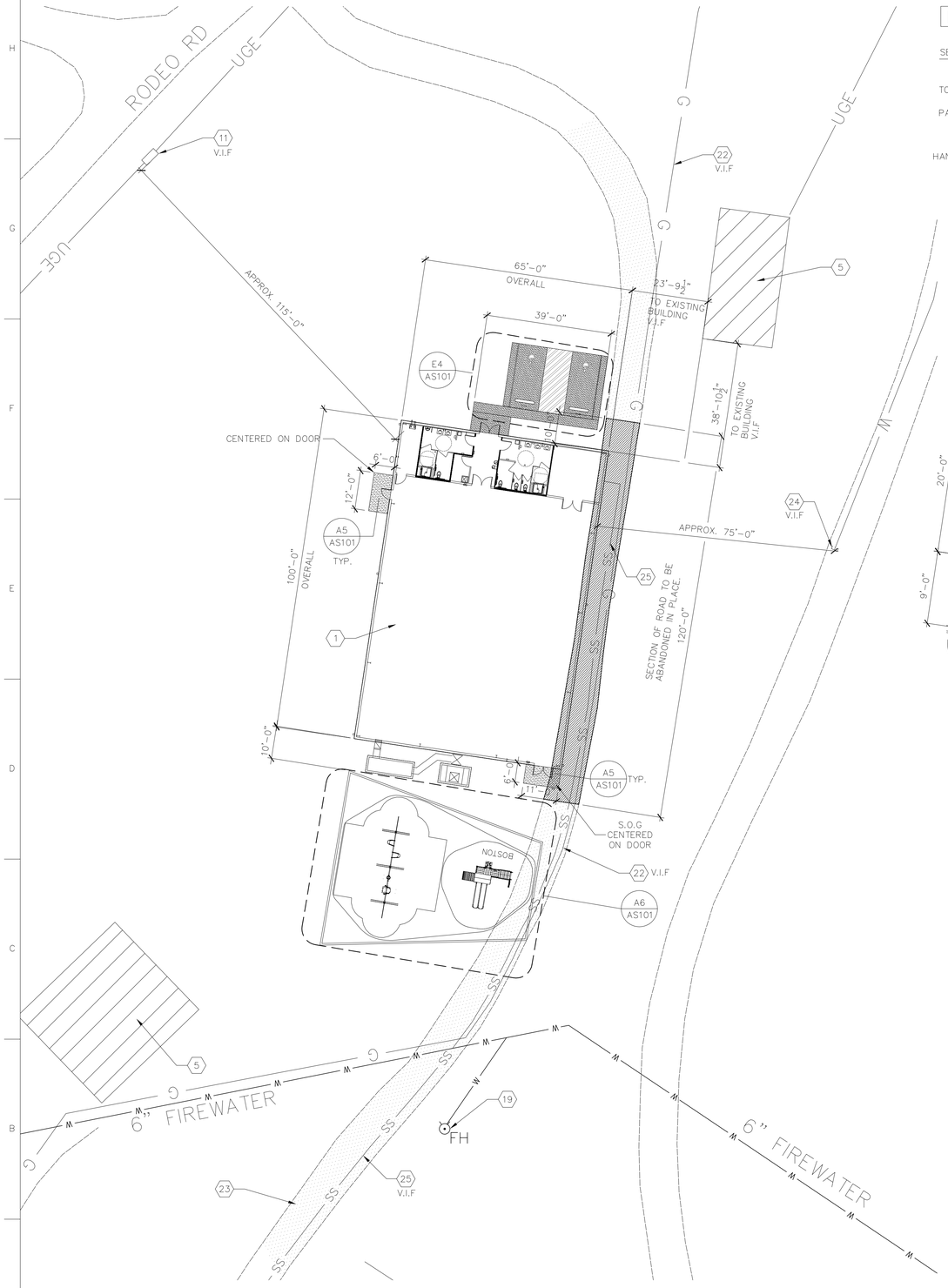
SHEET TITLE: UTILITY PLAN

C-102



A1 SITE PLAN
1"=20'

PARKING REQUIREMENTS

§ PER COMPREHENSIVE ZONING ORDINANCE– DOCUMENT #2010028894

SECTION 9(4) RURAL OFF–STREET PARKING AND LOADING

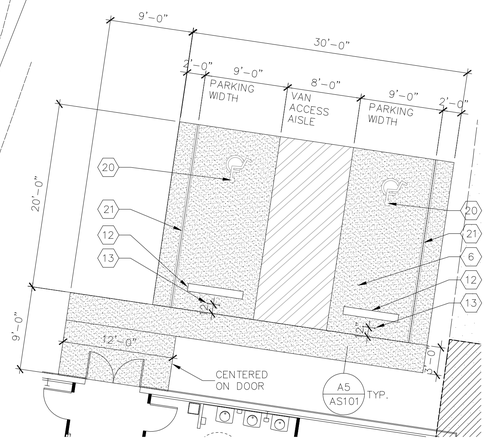
TOTAL OCCUPANTS = 296 per § table 1004.1.1

PARKING SPACE REQUIREMENT: (1) SPACE PER (5) SEATS (FULLY OCCUPIED)

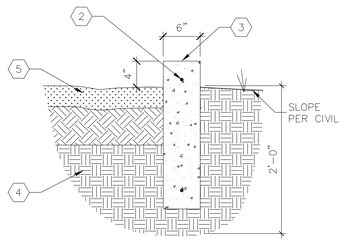
296/5 = 59.2 60 SPACES REQUIRED (EXISTING)

HANDICAP PARKING REQUIREMENTS: 2% OF TOTAL PARKING SPACES.

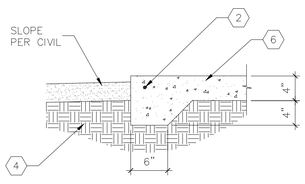
60 * .02 = 1.2 2 HANDICAP SPACES REQUIRED



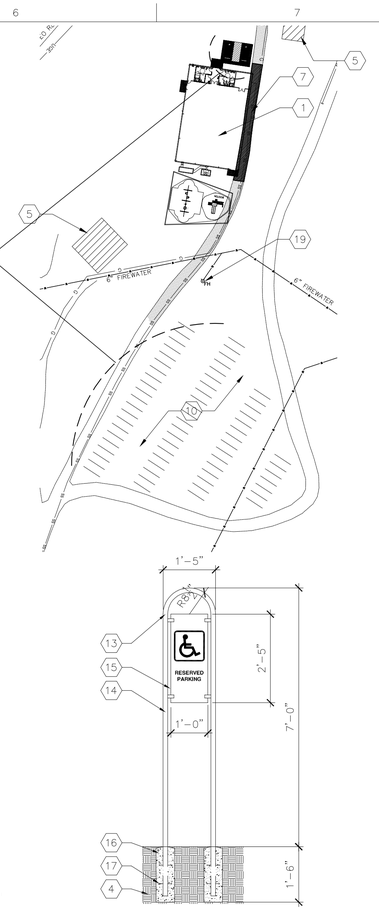
E4 ENLARGED PARKING
1/8"=1'-0"



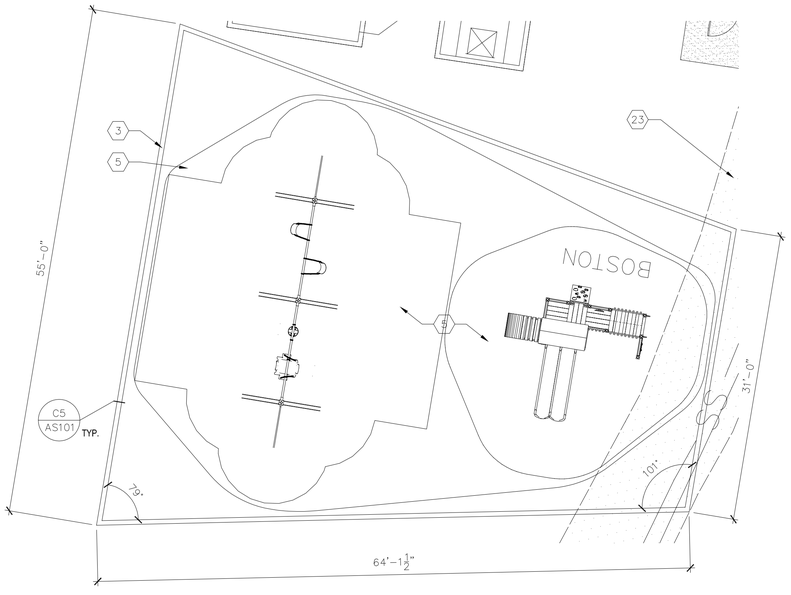
C5 PLAYGROUND CURB
1"=1'-0"



A5 SIDEWALK EDGE
1"=1'-0"



D6 ACCESSIBLE PARKING SIGN
1/2"=1'-0"



A6 ENLARGED PLAYGROUND PLAN
1/8"=1'-0"

GENERAL SHEET NOTES

A. DO NOT SCALE DRAWINGS.
B. CONTRACTOR TO COORDINATE ALL DRAWINGS PRIOR TO CONSTRUCTION.
C. VERIFY EXISTING CONDITIONS IN FIELD. BRING DISCREPANCIES TO ATTENTION OF ARCHITECT.
D. DIMENSIONS ARE TO STUDS UNLESS OTHERWISE NOTED.
E. 'FF' INDICATES THAT THE DIMENSION IS A CRITICAL FINISHED DIMENSION MEASURED TO THE FINISHED FACE OF PARTITIONS.

SHEET KEYNOTES

1. PROPOSED BUILDING.
2. #4 REBAR, CONT., HORIZ.
3. REINFORCED CONC. HEADER CURB.
4. SCARIFY AND BRING COMPACTION OF EXT'G SOIL TO 95% MODIFIED PROCTOR FOR A DEPTH OF 12".
5. ENGINEERED WOOD CHIPS, BY OWNER, N.I.C.
6. AIR ENTRAINED REINFORCED CONC. PAVING.
7. EXISTING ROAD TO BE ABANDONED IN PLACE.
8. CONCRETE PAD FOR HANDICAP PARKING , WITH 3'-0" WIDE PATH TO DOOR.
9. EXISTING BUILDING.
10. PARKING AREA.
11. APPROXIMATE LOCATION OF ELECTRICAL JUNCTION BOX.
12. PARKING BUMPER, DOWEL AND EPOXY OF CONCRETE.
13. ACCESSIBLE PARKING SIGN ON EXPOSED 18 GA. S.S.- NMBC APPROVED.
14. 1 1/2" O.D. STANDARD STEEL TUBING.
15. 1"x2"x1/8" STEEL TABS WELDED TO PIPE.
16. CONCRETE FOOTING AS INDICATED.
17. NELSON STUD.
18. PLAY EQUIPMENT, SEE SPECIFICATIONS. INSTALL PER MANUFACTURE RECOMMENDATIONS. BY OWNER, N.I.C.
19. FIRE HYDRANT.
20. ACCESSIBILITY SYMBOL PAINTED IN REFLECTIVE WHITE PAINT.
21. 4" REFLECTIVE STRIP.
22. EXISTING GAS LINE, VERIFY IN FIELD.
23. EXISTING ROAD, VERIFY EXACT LOCATION.
24. APPROXIMATE LOCATION OF WATER MAIN.
25. PROPOSED ROUTE OF SANITARY SEWER LINE. MAN HOLE 700FT SOUTH.

SITEWORK NOTES

ALL SITE WORK TO BE PERFORMED BY OWNER, N.I.C.

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CHECKED BY: gdd
SET NO:
SHEET TITLE: SITE PLAN, ENLARGED PLAYGROUND PLAN & DETAILS

AS101

GENERAL STRUCTURAL NOTES

STRUCTURAL NOTES:

CODES AND MANUALS:

INTERNATIONAL BUILDING CODE, 2015 EDITION, AS AMENDED BY THE STATE OF NEW MEXICO
ASCE STANDARD MINIMUM DESIGN LOADS FOR BUILDINGS AND OTHER STRUCTURES: SEI/ASCE 7-10
ACI BUILDING CODE REQUIREMENTS FOR STRUCTURAL CONCRETE: ACI 318-14
AISI STANDARD NORTH AMERICAN SPECIFICATION FOR DESIGN OF COLD-FORMED STEEL STRUCTURAL MEMBERS

BUILDING LOADING:

BUILDING RISK CATEGORY	II
ROOF DEAD LOAD	9.5 PSF
SPRINKLER SYSTEM	3 PSF
ROOF POINT LOADS - BASKETBALL GOALS	PER MANUFACTURER
ROOF LIVE LOAD	20 PSF, NON-REDUCIBLE
SNOW LOAD IMPORTANCE FACTOR	1.0
GROUND SNOW LOAD	22 PSF, GROUND SNOWLOAD DATABASE, ARUP K. MAJI, PhD, PE, DECEMBER 31, 1999
ROOF SNOW LOAD	14 PSF
WIND LOAD IMPORTANCE FACTOR	1.0
BASIC WIND SPEED	115 MPH
EXPOSURE CATEGORY	C
BUILDING TYPE	ENCLOSED
SEISMIC IMPORTANCE FACTOR	1.0
SITE CLASSIFICATION	C
SITE LOCATION	35.99266°N, 106.97098°W
Ss	0.290g
S1	0.093g
Sms	0.348g
Sm1	0.159g
Sds	0.232g
Sd1	0.106g
REDUNDANCY FACTOR	1.0

GEOTECHNICAL REPORT:

THE GEOTECHNICAL REPORT FOR THIS PROJECT WAS PREPARED BY LEE J MITCHELL, PE OF AMEC, INC AND IS DATED AUGUST 28, 2008. ALL PROVISIONS AND RECOMMENDATIONS OF THE GEOTECHNICAL REPORT SHALL BE FOLLOWED, INCLUDING SITE PREPARATION. SHALLOW SPREAD FOUNDATIONS HAVE BEEN DESIGNED USING A SOIL BEARING PRESSURE OF 2000 PSI, AS RECOMMENDED.

GENERAL:

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

COORDINATE DIMENSIONS OF ALL OPENINGS, DEPRESSIONS, BLOCKOUTS, ETC. WITH ALL DISCIPLINE REQUIREMENTS AND FIELD CONDITIONS PRIOR TO SHOP DRAWING SUBMITTAL.

THE CONTRACTOR SHALL VERIFY ALL DIMENSIONS IN THE FIELD. ALL DIMENSIONS OF EXISTING CONSTRUCTION SHOWN SHALL BE TREATED AS APPROXIMATE AND VERIFIED PRIOR TO COMMENCING ANY WORK.

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

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

TEMPORARY PROVISIONS SHALL BE MADE FOR STRUCTURAL STABILITY DURING CONSTRUCTION. THE STRUCTURE SHOWN ON THE DRAWINGS HAS BEEN DESIGNED FOR STABILITY UNDER FINAL CONFIGURATION. THE CONTRACTOR SHALL BE RESPONSIBLE FOR PROVIDING SAFE AND ADEQUATE SHORING FOR ALL PARTS OF THE STRUCTURE DURING CONSTRUCTION. CONSTRUCTION AND/OR ERECTION SEQUENCES SHALL RECOGNIZE AND CONSIDER THE EFFECTS OF THERMAL MOVEMENTS OF STRUCTURAL ELEMENTS DURING THE CONSTRUCTION PERIOD.

CONTRACTOR SHALL BE RESPONSIBLE FOR ADHERING TO ALL APPLICABLE STANDARDS SET FORTH BY OSHA AS WELL AS IMPLEMENTING APPROPRIATE SAFETY PRECAUTIONS, MEANS, METHODS, SEQUENCES, AND/OR TECHNIQUES NECESSARY TO PERFORM THE WORK OUTLINED IN THE CONSTRUCTION DOCUMENTS.

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

DRAWINGS:

DO NOT SCALE DRAWINGS.

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

SHOP DRAWINGS:

SHOP DRAWINGS ARE REVIEWED BY THE ENGINEER OF RECORD ONLY TO ESTABLISH GENERAL CONFORMANCE WITH THE CONTRACT DOCUMENTS. ALL DIMENSIONS AND QUANTITIES SHOULD BE VERIFIED BY THE CONTRACTOR, AND DRAWINGS STAMPED PRIOR TO SUBMITTAL TO THE EOR. CONTRACTOR SHALL REVIEW ALL SHOP DRAWINGS FOR CONFORMANCE WITH MEANS AND METHODS, TECHNIQUES, SEQUENCES, AND CONSTRUCTION OPERATIONS TO BE EMPLOYED.

SHOP DRAWING SUBMITTALS PROCESSED BY THE ENGINEER OF RECORD ARE NOT CHANGE ORDERS. DEVIATIONS OR CONFLICTS BETWEEN SHOP DRAWINGS AND THE CONTRACT DOCUMENTS SHALL NOT BE CONSIDERED APPROVED WITHOUT A CORRESPONDING ADDENDUM ALTERING THE CONTRACT DOCUMENTS. WHERE NO ADDENDUM EXISTS, THE CONTRACT DOCUMENTS SHALL GOVERN.

STRUCTURAL OBSERVATION:

THE ENGINEER OF RECORD SHALL PROVIDE VISUAL OBSERVATION OF THE STRUCTURAL SYSTEM FOR GENERAL CONFORMANCE WITH THE APPROVED CONTRACT DOCUMENTS AT SIGNIFICANT STAGES OF CONSTRUCTION, AS WELL AS IMMEDIATELY FOLLOWING COMPLETION OF THE STRUCTURAL SYSTEM. THIS OBSERVATION DOES NOT INCLUDE OR WAIVE THE RESPONSIBILITY TO PROVIDE SPECIAL INSPECTION IN ACCORDANCE WITH CHAPTER 17 OF THE INTERNATIONAL BUILDING CODE, DISCUSSED LATER.

CONCRETE:

MIX DESIGNS SHALL BE SUBMITTED TO THE ENGINEER OF RECORD AND THE BUILDING DEPARTMENT (IF REQUIRED) FOR ACCEPTANCE PRIOR TO USE. MINIMUM COMPRESSIVE STRENGTH, MAXIMUM WATER TO CEMENT RATIO, AND SLUMP SHALL MEET THE FOLLOWING REQUIREMENTS AS DEMONSTRATED BY STANDARD 28-DAY CYLINDER TESTS OF TRIAL BATCHES OR FIELD EXPERIENCE:

	MAXIMUM WATER TO CEMENT RATIO BY WEIGHT		
f'c	NON-AIR ENTRAINED	AIR-ENTRAINED	MAXIMUM SLUMP
3000 psi	0.44	0.40	5

GENERAL STRUCTURAL NOTES

AGGREGATE AND CEMENT PROPORTIONS USED SHALL PRODUCE A DENSE, WORKABLE MIX WHICH CAN BE PLACED WITHOUT SEGREGATION OR EXCESS FREE SURFACE WATER. ALL CONCRETE SHALL HAVE AN ACCEPTABLE WATER-REDUCING ADMIXTURE, USED IN ACCORDANCE WITH THE MANUFACTURER'S RECOMMENDATIONS. ALL EXTERIOR CONCRETE SHALL CONTAIN AN ACCEPTABLE ADMIXTURE, PRODUCING 4 TO 6 PERCENT ENTRAINED AIR.

MAXIMUM AGGREGATE SIZE SHALL BE 1½" OR ¾ OF THE CLEAR DISTANCE BETWEEN REINFORCING BARS, WHICHEVER IS SMALLER.

CONSTRUCTION JOINTS:

ALL CONSTRUCTION JOINTS SHALL BE KEYED, OR AT THE CONTRACTORS OPTION, ROUGHENED SUCH THAT AGGREGATE EMBEDDED IN THE PREVIOUS POUR IS EXPOSED A MINIMUM OF ¼". ALL CONSTRUCTION JOINTS SHALL BE THOROUGHLY CLEANED AND WETTED (AND STANDING WATER REMOVED) IMMEDIATELY BEFORE NEW CONCRETE IS PLACED. THE CONTRACTOR SHALL SUBMIT THE PROPOSED LOCATIONS OF ALL CONSTRUCTION JOINTS TO THE ENGINEER OF RECORD FOR ACCEPTANCE PRIOR TO THE START OF FORMWORK. WATERSTOPS SHALL BE INSTALLED AND PROTECTED AT ALL CONSTRUCTION JOINTS.

SLAB CONTROL JOINTS:

SLAB CONTROL JOINTS SHALL BE CUT TO MINIMIZE CRACKING AT THE ARCHITECT'S/CONTRACTOR'S OPTION. SAWCUTTING SHALL OCCUR AS SOON AS CURING ALLOWS. SPACING AND LAYOUT SHALL BE PER ARCH AND COMPLY WITH THE FOLLOWING STRUCTURAL GUIDELINES:
PARALLEL CUTS SHALL BE NO MORE THAN 25' APART
SLAB PANELS SHALL HAVE A LENGTH TO WIDTH RATIO NO MORE THAN 3/2
SAWCUT IN EACH DIRECTION AT COLUMNS

REINFORCING STEEL:

ALL REINFORCING STEEL SHALL BE ASTM A615, GRADE 60, UNLESS NOTED OTHERWISE. BARS SHALL BE SECURELY TIED IN PLACE WITH #16 TIE WIRE. BARS SHALL BE SUPPORTED ON ACCEPTABLE NON-CORROSIVE CHAIRS. REINFORCING STEEL SHALL BE DETAILED IN ACCORDANCE WITH THE ACI 315, MANUAL OF STANDARD PRACTICE FOR DETAILING OF REINFORCED CONCRETE STRUCTURES.

LAP ALL REINFORCING BARS IN ACCORDANCE WITH ACI REQUIREMENTS FOR BAR SIZE, UNLESS NOTED OTHERWISE. AT THE CONTRACTORS OPTION, MECHANICAL OR WELDED SPLICES MAY BE SUBMITTED TO THE ENGINEER OF RECORD FOR ACCEPTANCE.

SHOP DRAWING SHALL BE PREPARED AND SUBMITTED FOR ACCEPTANCE FOR ALL REINFORCING STEEL PRIOR TO FABRICATION.

MINIMUM CAST-IN-PLACE CONCRETE COVER OVER REINFORCING STEEL:

CONCRETE EXPOSED TO EARTH OR ELEMENTS	3"
INTERIOR FACE OF WALLS	¾"
SLABS	¾"
STIRRUPS, TIES, AND SPIRALS OF BEAMS OR COLUMNS	2"

FOUNDATIONS:

FOUNDATION EXCAVATION, BACKFILL, AND COMPACTION SHALL CONFORM WITH THE RECOMMENDATIONS OF THE GEOTECHNICAL ENGINEERING REPORT. THIS WORK, INCLUDING DRAINAGE, SHORING, AND SUCH OTHER WORK AS REQUIRED, SHALL BE COORDINATED AND CONDUCTED BY THE GENERAL CONTRACTOR UNDER THE OBSERVATION AND DIRECTION OF THE GEOTECHNICAL ENGINEER.

FOUNDATIONS SHALL BE AT LEAST 2'-6" BELOW THE LOWEST ADJACENT FINISHED GRADE, AND BEAR ON MATERIAL MEETING THE RECOMMENDATIONS AND REQUIREMENTS OF THE GEOTECHNICAL REPORT. ALL ABANDONED FOUNDATIONS, UTILITIES, OR OTHER CONSTRUCTION INTERFERING WITH NEW FOUNDATIONS SHALL BE REMOVED.

FOUNDATIONS MAY BE POURED DIRECTLY IN NEAT EXCAVATIONS, PROVIDED PROPER CONCRETE COVER IS MAINTAINED FOR ALL REINFORCEMENT.

THE CONTRACTOR SHALL PROVIDE FOR DESIGN AND INSTALLATION OF ALL CRIBBING, SHEATHING, AND SHORING REQUIRED TO SAFELY MAINTAIN EXCAVATIONS.

STRUCTURAL AND MISCELLANEOUS STEEL:

ALL STRUCTURAL STEEL SHALL BE DETAILED AND FABRICATED IN ACCORDANCE WITH THE AISC "SPECIFICATION FOR THE DESIGN, FABRICATION, AND ERECTION OF STRUCTURAL STEEL FOR BUILDINGS".

ALL WIDE FLANGE SHAPES SHALL CONFORM TO ASTM A992, GRADE 50.
ALL MISCELLANEOUS STEEL MEMBERS, SUCH AS CHANNELS, ANGLES, FLAT BARS, AND PLATES SHALL CONFORM TO ASTM A36 UNLESS NOTED OTHERWISE.
ALL RECTANGULAR AND SQUARE STRUCTURAL TUBING SHALL CONFORM TO ASTM A500, GRADE B. FY = 46 KSI.

BOLTS SHALL CONFORM TO ASTM A325 TENSION CONTROL BOLTS UNLESS NOTED OTHERWISE, WITH SIZES AS SHOWN ON THE DRAWINGS. WHERE CLEARANCE WITHIN A CONNECTION DOES NOT PERMIT THE USE OF TENSION CONTROL BOLTS, STANDARD A325 BOLTS SHALL BE USED AND INSPECTED IN ACCORDANCE WITH THE AISC "SPECIFICATION FOR STRUCTURAL JOINTS USING ASTM A325 OR A490 BOLTS".

ALL WELDING SHALL BE DONE IN ACCORDANCE WITH THE LATEST STANDARDS OF THE AWS STRUCTURAL WELDING CODE.

ALL BOLT HOLES THAT ARE REQUIRED TO BE FIELD DRILLED SHALL BE DRILLED WITH A MAG DRILL. FLAME CUTTING OF HOLES OR ENLARGING OF UNFAIR HOLES WILL NOT BE ALLOWED WITHOUT PRIOR APPROVAL.

STEEL DECK:

ALL STEEL DECK SHALL BE FABRICATED AND ERECTED IN ACCORDANCE WITH STEEL DECK INSTITUTE SPECIFICATIONS.

PROVIDE A MINIMUM OF 1 1/2" BEARING FOR ALL STEEL DECK.

ALL SPLICES AND LAPS SHALL BE A MINIMUM OF 2" AND SHALL BE LOCATED DIRECTLY ABOVE SUPPORTS.

DECKING SHALL BE CONTINUOUS OVER THREE OR MORE SPANS, WHERE FRAMING PERMITS.

LIGHTGAGE STRUCTURAL STEEL FRAMING (18 GAGE OR HEAVIER):

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

WALLS SHALL BE PROVIDED WITH MANUFACTURER'S STANDARD BRIDGING: (EITHER WELDED 2 1/2" x 18 GAGE STUD OR CLIPPED COLD-ROLLED CHANNEL 1 1/2" x 16 GAGE). PROVIDE BRIDGING AT 4'-0" ON CENTER MAXIMUM FOR LOAD BEARING WALLS AND EXTERIOR WALLS.

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

LIGHTGAGE STEEL FRAMING SHALL MEET THE MINIMUM PROPERTIES AS SHOWN IN THE LIGHTGAGE STEEL SCHEDULE. ALL TRACK SHALL BE DEEP LEG, 18 GAGE MINIMUM.

SECURE STUDS TO TOP AND BOTTOM TRACKS BY WELDING AT BOTH INSIDE AND OUTSIDE FLANGES OR WITH A MINIMUM OF 2-#8 TEK SCREWS PER LOCATION UP TO 16 GAGE MATERIAL AND 2-#10 TEK SCREWS PER LOCATION FOR 14 GAGE MATERIAL AND THICKER UNLESS NOTED OTHERWISE.

ALL COMPONENTS OF BUILT-UP STUD SECTIONS, INCLUDING COLUMNS, HEADERS, ETC. SHALL BE WELDED TOGETHER UTILIZING 1/8" FILLET WELDS, 2" LONG AT 12" OC, ALONG THE FULL LENGTH OF EACH FLANGE TO FLANGE CONNECTION.

SPECIAL INSPECTIONS

SPECIAL INSPECTION:

THE OWNER SHALL PROVIDE FOR SERVICES OF A CERTIFIED INSPECTOR (APPROVED BY THE BUILDING OFFICIAL OR THE ENGINEER OF RECORD) IN ACCORDANCE WITH CHAPTER 17 OF THE INTERNATIONAL BUILDING CODE FOR THE SPECIAL INSPECTION OF THE FOLLOWING:

ACTIVITY	DURATION
SOILS:	
VERIFICATION OF BEARING CAPACITY OF MATERIAL BELOW FOUNDATIONS	PERIODIC
EXCAVATIONS ARE THE PROPER DEPTH AND HAVE REACHED SUITABLE MATERIAL	PERIODIC
CLASSIFICATION AND TESTING OF CONTROLLED FILL	PERIODIC
OBSERVATION OF SUBGRADE FOR PROPER PREPARATION PRIOR TO PLACEMENT OF CONTROLLED FILL	
VERIFY PROPER MATERIALS, DENSITIES, AND LIFT THICKNESS DURING PLACEMENT AND COMPACTION OF CONTROLLED FILL	CONTINUOUS
CONCRETE CONSTRUCTION:	
REINFORCING STEEL	PERIODIC
REINFORCING STEEL WELDING	PERIODIC
BOLTS INSTALLED IN CONCRETE	CONTINUOUS
USE OF PROPER CONCRETE MIX	CONTINUOUS
CONCRETE SAMPLING: SLUMP, AIR CONTENT, AND TEMPERATURE (FOR EACH CONCRETE SAMPLE USED FOR STRENGTH TESTS)	CONTINUOUS
CONCRETE PLACEMENT	PERIODIC
CONCRETE CURING	PERIODIC
STEEL CONSTRUCTION:	
MATERIAL VERIFICATION OF HIGH STRENGTH FASTENER GRADE (ASTM MARKINGS AND MANUFACTURER'S CERTIFICATE OF COMPLIANCE)	PERIODIC
OBSERVATION OF HIGH STRENGTH BOLTING PROCEDURE	PERIODIC
MATERIAL VERIFICATION OF STRUCTURAL STEEL (MANUFACTURER'S CERTIFIED MILL TEST REPORTS)	PERIODIC
MATERIAL VERIFICATION OF WELD FILLER MATERIAL (MANUFACTURER'S CERTIFICATE OF COMPLIANCE)	PERIODIC
COMPLETE AND PARTIAL PENETRATION GROOVE WELDS	CONTINUOUS
MULTIPASS FILLET WELDS	CONTINUOUS
FILLET WELDS >5/16"	CONTINUOUS
FILLET WELDS <= 5/16"	PERIODIC
FLOOR AND ROOF DECK WELDS	PERIODIC
STEEL FRAME JOINT DETAILS	PERIODIC

EXCEPTION: THE USE OF A 3RD PARTY INSPECTOR FOR STEEL SHOP OPERATIONS SHALL NOT BE NECESSARY, PROVIDED THE SELECTED FABRICATOR HAS AN ACCEPTABLE DOCUMENTED QUALITY CONTROL PROCESS. DOCUMENTATION SHALL BE SUBMITTED TO THE ENGINEER OF RECORD FOR ACCEPTANCE PRIOR TO THE START OF FABRICATION.

ABBREVIATIONS

AFF	ABOVE FINISHED FLOOR
BFF	BELOW FINISH FLOOR
BLW	BELOW
BOS	BOTTOM OF STEEL
CD	CONSTRUCTION DOCUMENTS
CJ	CONSTRUCTION JOINT/CONTROL JOINT
CL	CENTER LINE
CLR	CLEAR
CMU	CONCRETE MASONRY UNIT
CONT	CONTINUOUS
EMBED	EMBEDDED/EMBEDMENT
EQ	EQUAL
FB	FLAT BAR
FDTN	FOUNDATION
FS	FAR SIDE
GA	GAGE
HAS	HEADED ANCHOR STUD
k	KIP
LLH	LONG LEG HORIZONTAL
LLV	LONG LEG VERTICAL
LONG	LONGITUDINAL
MAX	MAXIMUM
MIN	MINIMUM
MISC	MISCELLANEOUS
NA	NOT APPLICABLE
NS	NEAR SIDE
NTS	NOT TO SCALE
OC	ON CENTER
PL	PLATE
QTY	QUANTITY
REQD	REQUIRED
REV	REVISION
RFI	REQUEST FOR INFORMATION
SF	SQUARE FEET (FOOT)
SIM	SIMILAR
SOG	SLAB ON GRADE
STD	STANDARD
T&B	TOP AND BOTTOM
TOS	TOP OF STEEL
TYP	TYPICAL
UNO	UNLESS NOTED OTHERWISE
w/	WITH
W	WIDE FLANGE
WWF	WELDED WIRE FABRIC

Jack Rabbit

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DESIGNED WITH INTENT
FABRICATED WITH INTEGRITY

REBECA L CALVERT
NEW MEXICO
21178
PROFESSIONAL ENGINEER
2018-06-01

NEW BUILDING FOR:
Sandoval County
Recreation Center Building
at the Fairgrounds
37 Rodeo Road
Cuba, NM 87013

MARK	DATE	DESCRIPTION
	06.01	PERMIT

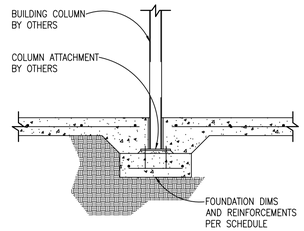
JR PROJECT NO: 171001
DATE: 2018.06.01
DRAWN BY: RLC
CHECKED BY: JDC
SET NO:
SHEET TITLE: GENERAL NOTES

S001

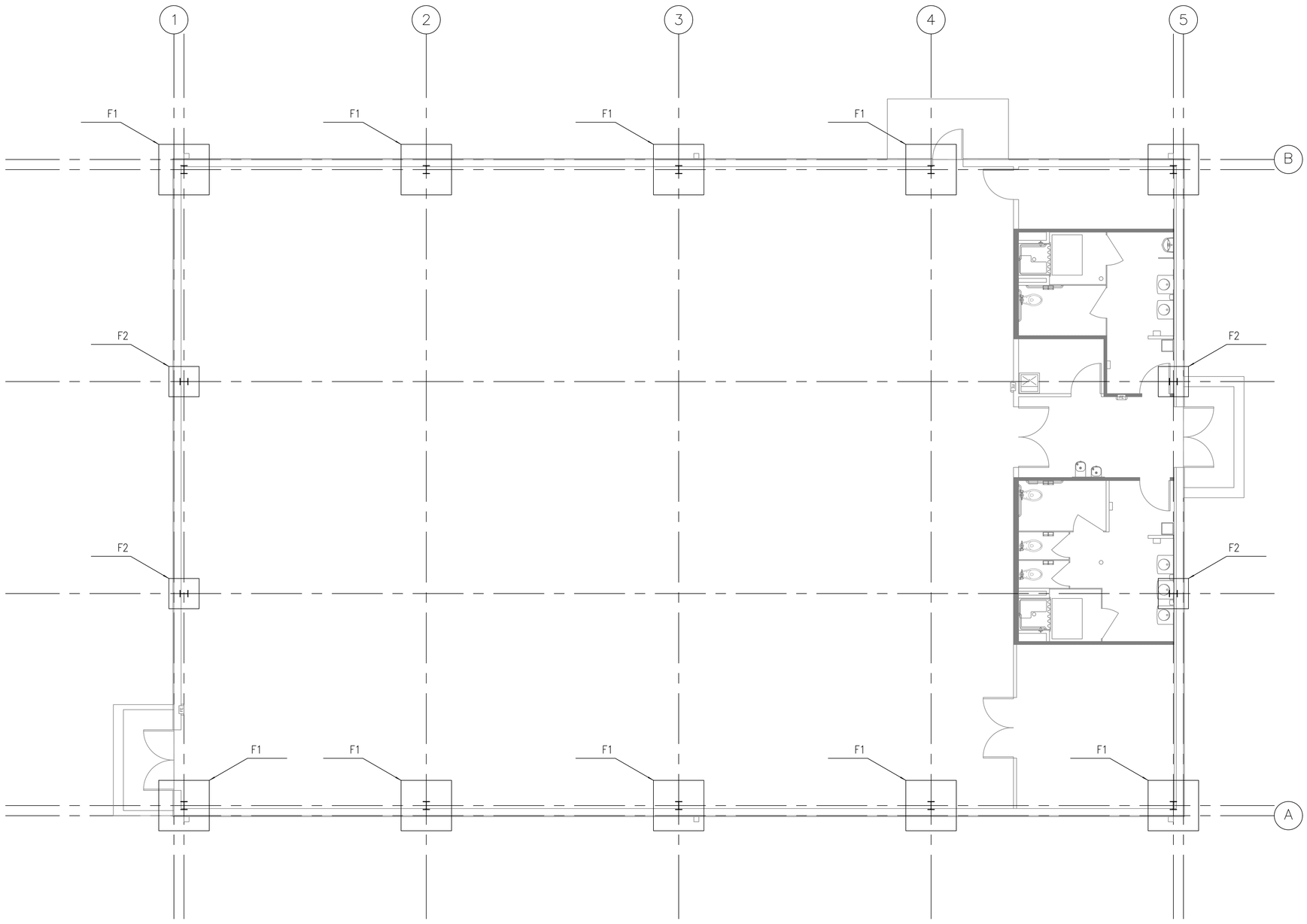
NOTE: FOUNDATIONS HAVE BEEN DESIGNED BASED ON THE ESTIMATED REACTIONS INDICATED BELOW; FOUNDATION DESIGN WILL BE REVIEWED FOLLOWING THE SUBMITTAL OF FINAL REACTIONS BY THE BUILDING'S ENGINEER OF RECORD.

SPOT FOUNDATION SCHEDULE

FDTN MARK	LENGTH/WIDTH	DEPTH	TOP REINF	BOTTOM REINF	REACTIONS
F1	5'-0"	1'-0"	NONE	(5) #5 EW	20k AXIAL 14k SHEAR
F2	3'-0"	1'-0"	NONE	(3) #5 EW	1k AXIAL 7k SHEAR



A1 SECURITY FENCE POST FOUNDATION
1/2" = 1'-0"



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2018.06.01

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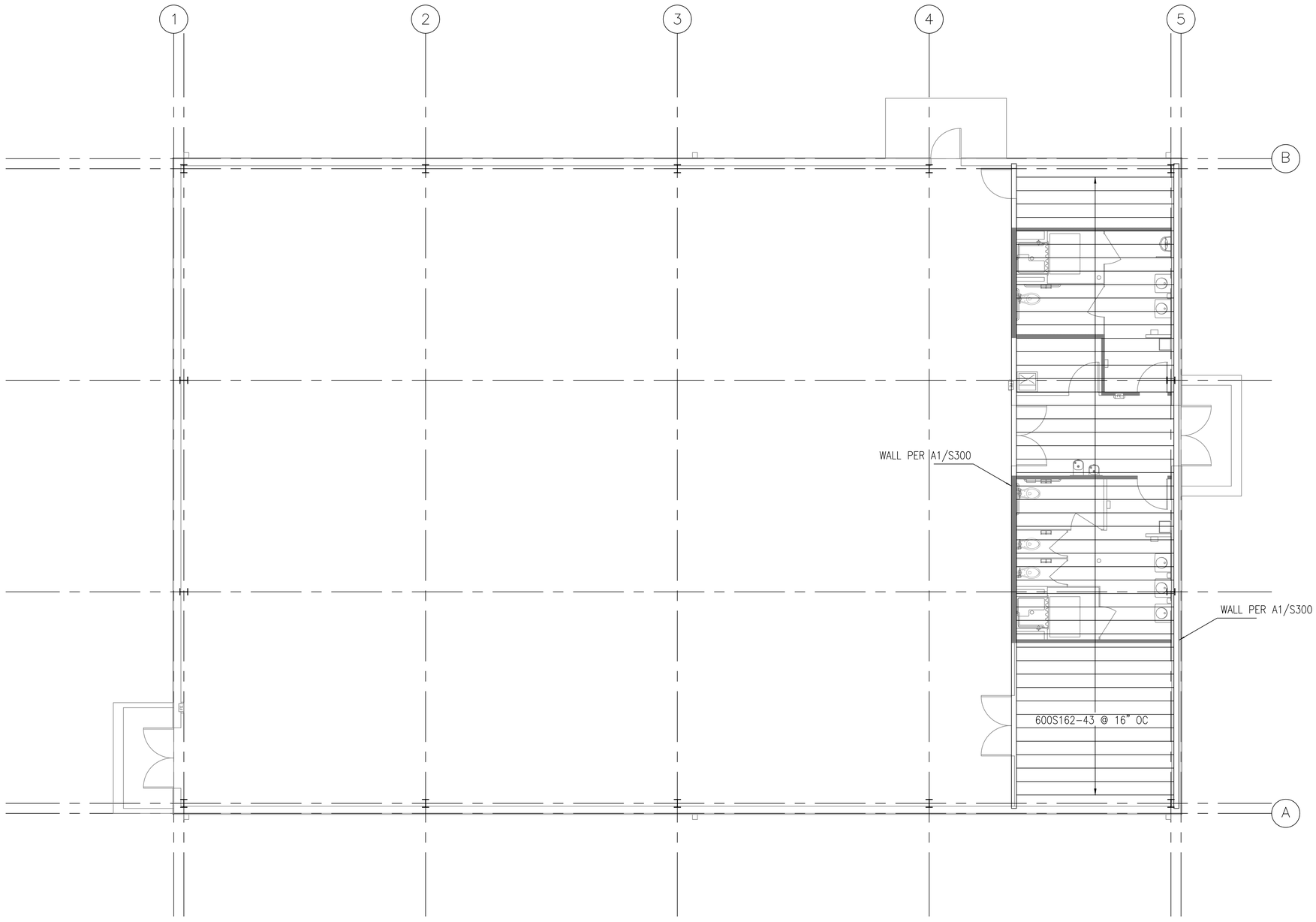
JR PROJECT NO: 171001
DATE: 2018.06.01
DRAWN BY: RLC
CHECKED BY: JDC
SET NO:
SHEET TITLE: FOUNDATION PLAN

S100



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	06.01	

JR PROJECT NO: 171001
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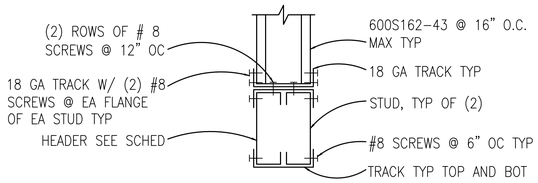
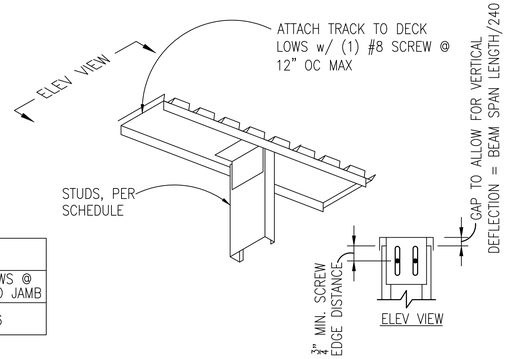
CHECKED BY: JDC
SET NO:
SHEET TITLE:
LIGHT GAGE FRAMING PLAN

S200

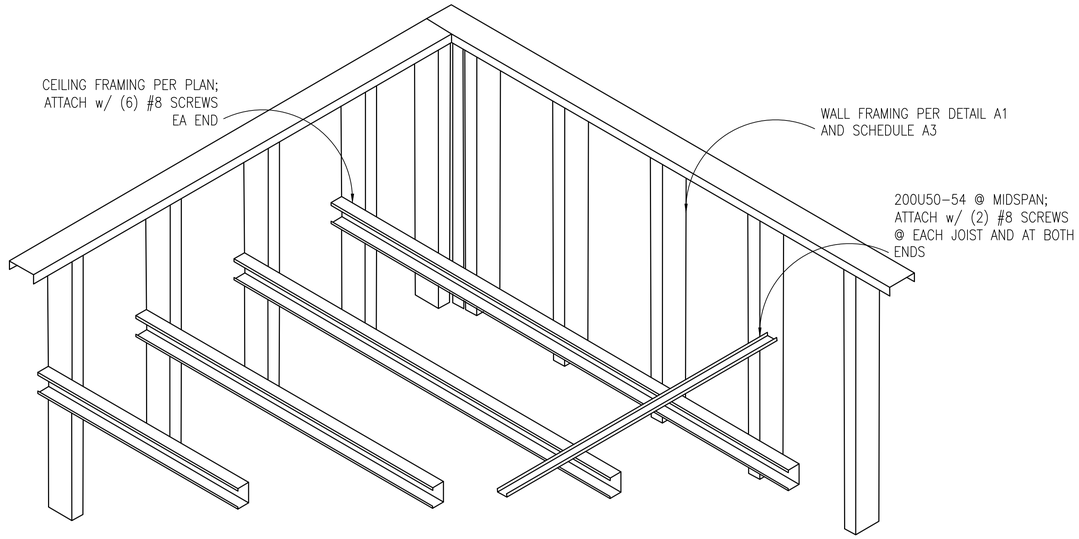


LIGHT GAGE HEADER SCHEDULE					
OPENING WIDTH "L"	STUD	TRACK	JAMB STUDS FULL HGT	JAMB STUDS UNDER	SCREWS @ WEB TO JAMB
<= 6'-0"	600S162-43	600T200-43	2	1	6

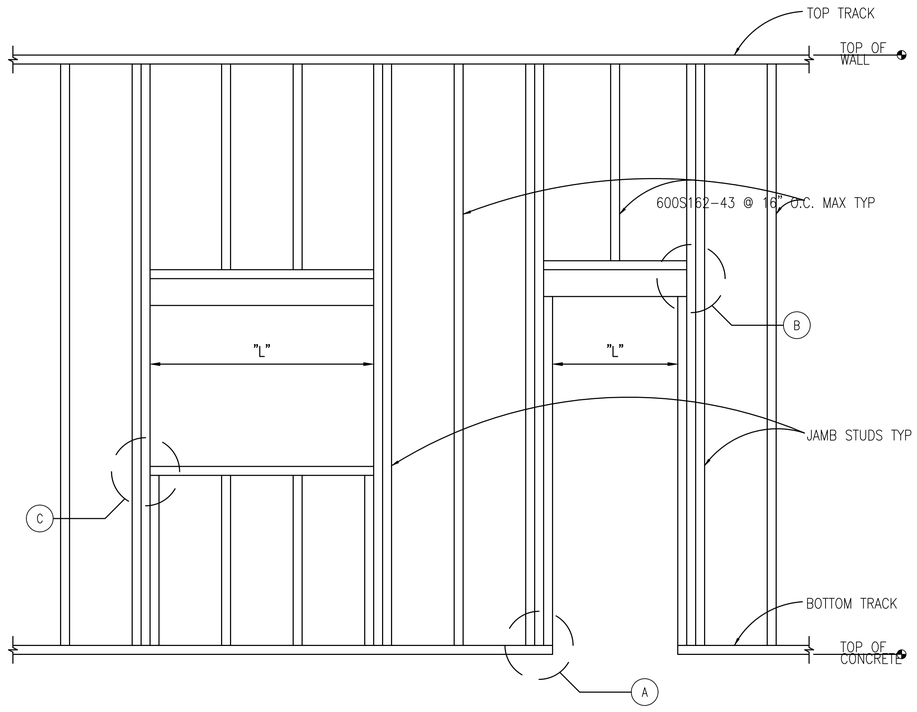
A3 HEADER/SILL SCHEDULE
1/2" = 1'-0"



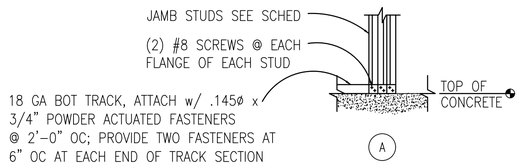
B3 TYPICAL SLIP TRACK ASSEMBLY
1/2" = 1'-0"

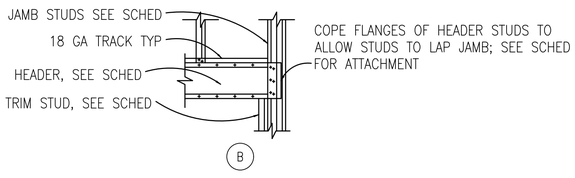


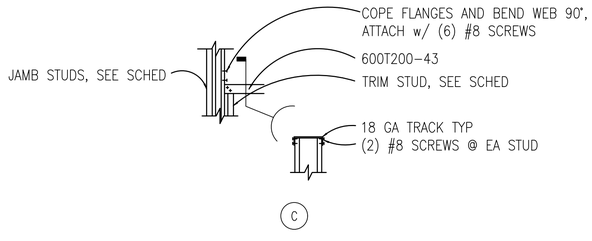
C3 CEILING FRAMING CONNECTIONS
1/2" = 1'-0"



A1 LIGHT GAGE FRAMING ELEVATION
1/2" = 1'-0"







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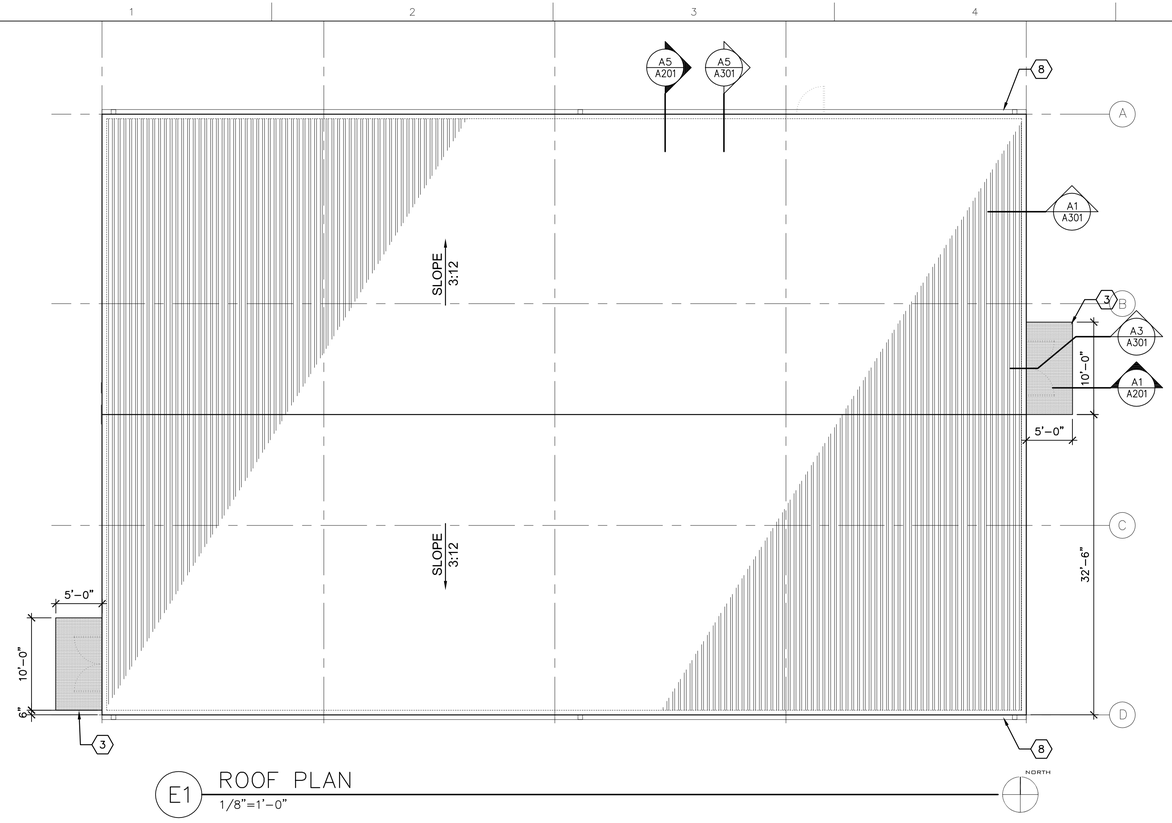
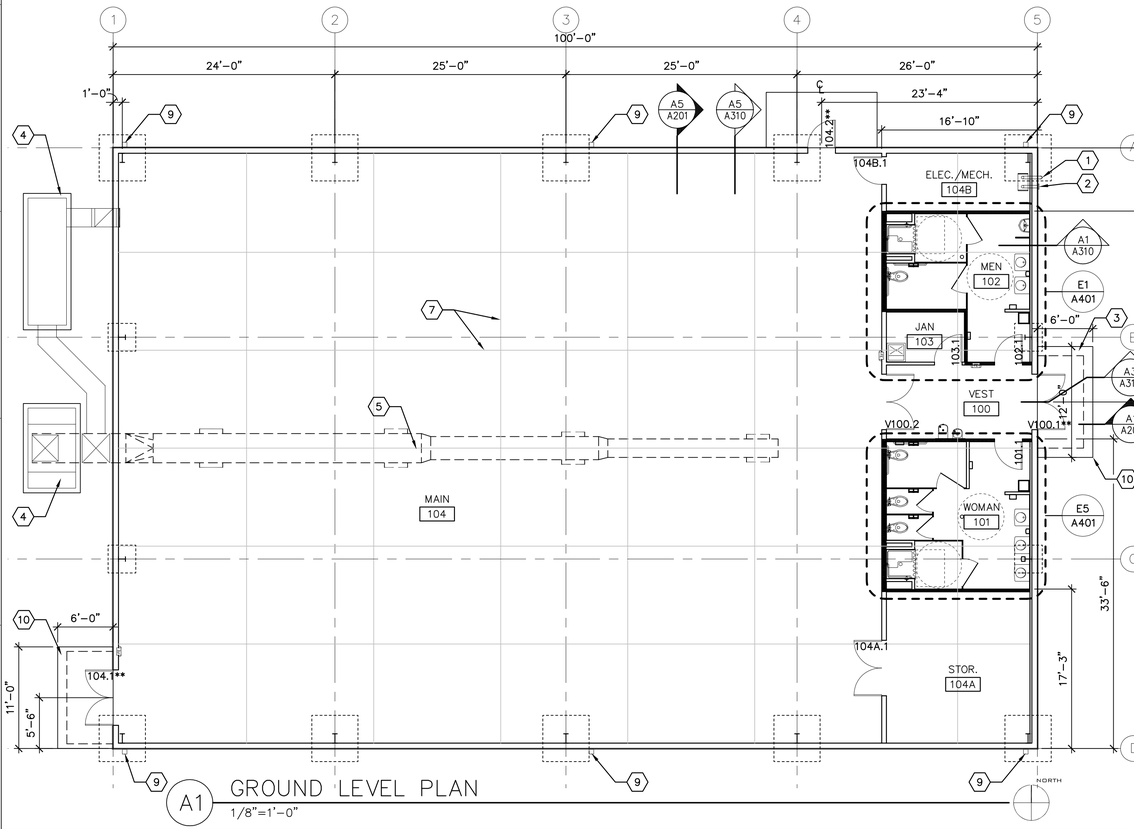
SHEET TITLE: DETAILS AND SCHEDULES

S300



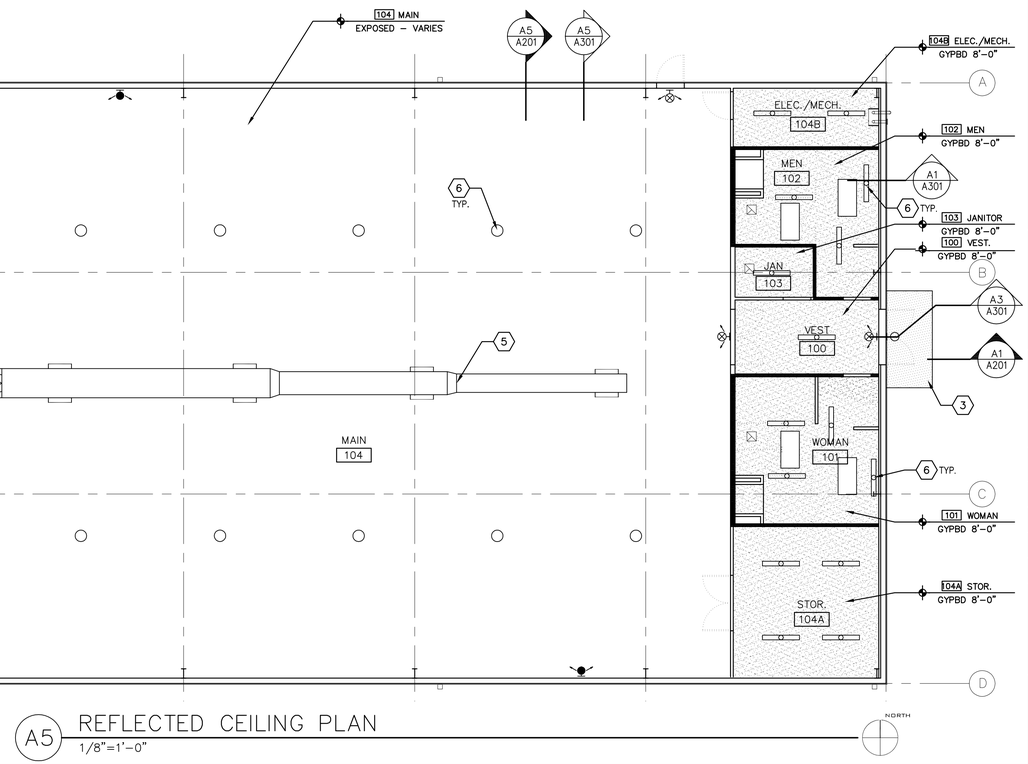
E1 ROOF PLAN

1/8"=1'-0"



A1 GROUND LEVEL PLAN

1/8"=1'-0"



A5 REFLECTED CEILING PLAN

1/8"=1'-0"

GENERAL SHEET NOTES

A. DO NOT SCALE DRAWINGS.
B. CONTRACTOR TO COORDINATE ALL DRAWINGS PRIOR TO CONSTRUCTION.
C. VERIFY EXISTING CONDITIONS IN FIELD. BRING DISCREPANCIES TO ATTENTION OF ARCHITECT.
D. DIMENSIONS ARE TO STUDS UNLESS OTHERWISE NOTED.
E. 'FF' INDICATES THAT THE DIMENSION IS A CRITICAL FINISHED DIMENSION MEASURED TO THE FINISHED FACE OF PARTITIONS.

SHEET KEYNOTES

1. HWH EXHAUST GAS VENT.
2. HWH AIR INTAKE.
3. AWNING BY METAL BUILDING MANUFACTURE.
4. MECHANICAL UNIT: GROUND MOUNTED PACKAGE UNIT W/ EVAP. COOLING.
5. HVAC DUCT.
6. LIGHTING FIXTURE. SEE ELECTRICAL SHEETS.
7. SAW CUT EXPANSION JOINTS 12' O.C. EACH WAY.
8. GUTTER BY BUILDING MANUFACTURE.
9. DOWN SPOUT BY BUILDING MANUFACTURE.
10. CONCRETE S.O.G

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STATE OF NEW MEXICO
G. DONALD DUDLEY, JR.
No. 3673
01/14/2019
REGISTERED ARCHITECT

NEW BUILDING FOR:
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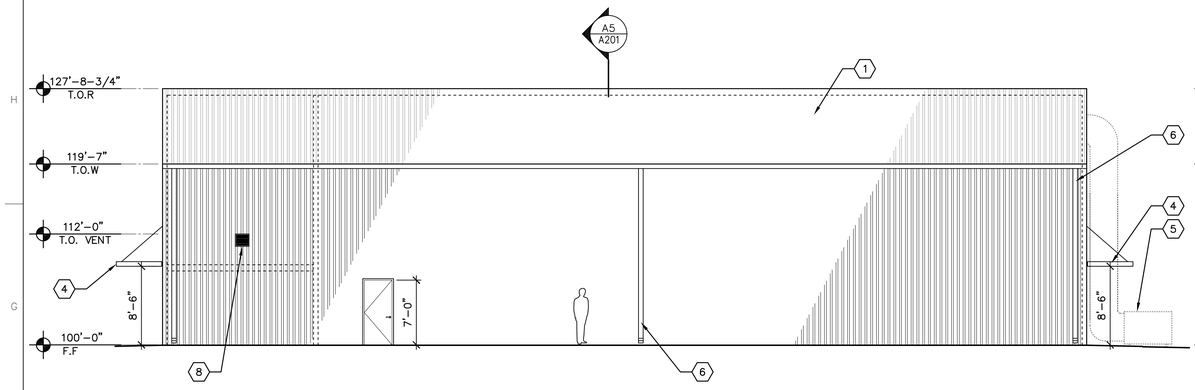
Recreation Center Building
at the Fairgrounds
37 Rodeo Road
Cuba, NM 87013

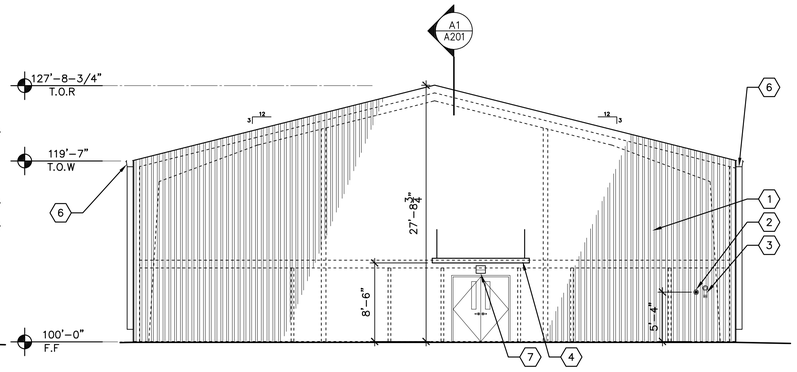
MARK	DATE	DESCRIPTION

GDDA PROJECT NO: 17-113
DATE: 01/14/2019
DRAWN BY: gdd
CHECKED BY: gdd
SET NO:
SHEET TITLE: PLANS

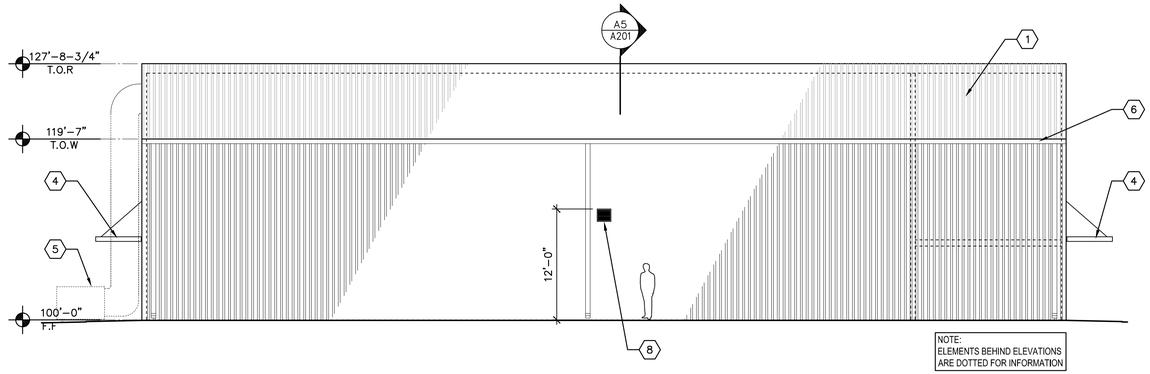
A101



F1 NORTH ELEVATION
1/8"=1'-0"



F5 EAST ELEVATION
1/8"=1'-0"



D1 SOUTH ELEVATION
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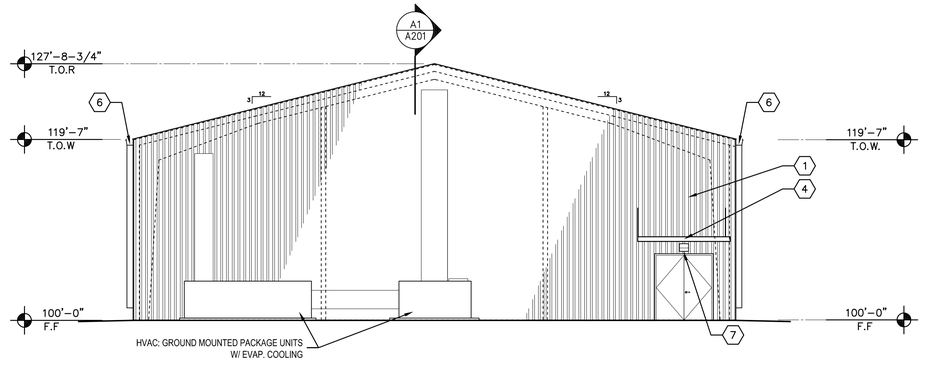
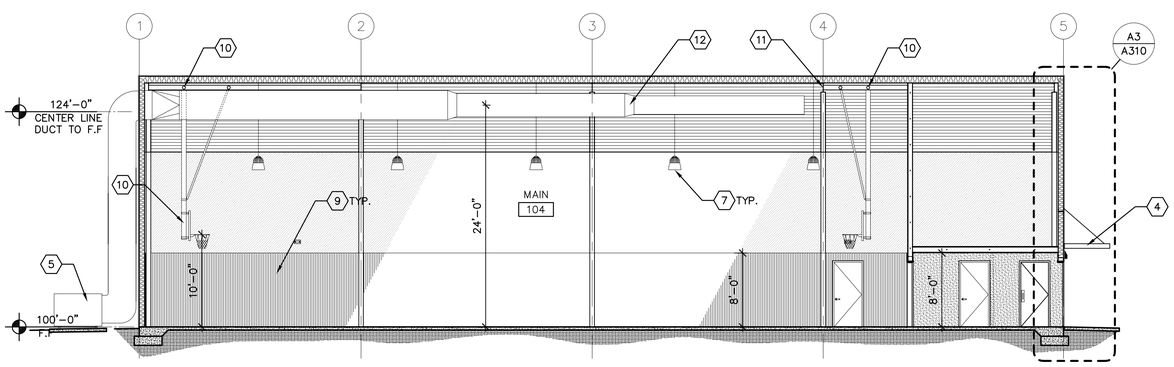
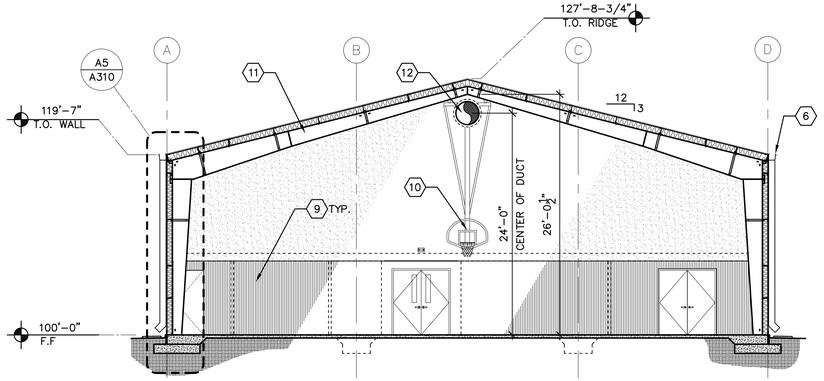


D5 WEST ELEVATION
1/8"=1'-0"



A1 LONGITUDINAL SECTION
1/8"=1'-0"



A5 TRANSVERSE SECTION
1/8"=1'-0"

GENERAL SHEET NOTES

A. DO NOT SCALE DRAWINGS.
B. CONTRACTOR TO COORDINATE ALL DRAWINGS PRIOR TO CONSTRUCTION.
C. VERIFY EXISTING CONDITIONS IN FIELD. BRING DISCREPANCIES TO ATTENTION OF ARCHITECT.
D. DIMENSIONS ARE TO STUDS UNLESS OTHERWISE NOTED.
E. 'FF' INDICATES THAT THE DIMENSION IS A CRITICAL FINISHED DIMENSION MEASURED TO THE FINISHED FACE OF PARTITIONS.

SHEET KEYNOTES

1. EXTERIOR METAL SKIN BY METAL BUILDING MANUFACTURE.
2. HWH EXHAUST GAS VENT.
3. HWH AIR INTAKE.
4. AWNING BY METAL BUILDING MANUFACTURE.
5. MECHANICAL UNIT: GROUND MOUNTED PACKAGE UNIT W/ EVAP. COOLING.
6. GUTTER AND DOWNSPOUT.
7. LIGHT, SEE ELECTRICAL SHEETS.
8. LOUVER VENT, SEE MECHANICAL SHEETS.
9. METAL LINER PANEL.
10. FUTURE BASKETBALL GOAL, BUILDING MANUFACTURE TO PROVIDE ADDITIONAL STRUCTURE TO ACCOMMODATE.
11. PRE-ENGENNEERED STRUCTURE.
12. MECHANICAL DUCT, SEE MECHANICAL PLANS.

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STATE OF NEW MEXICO
G. DONALD DUDLEY, JR.
No. 3673
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REGISTERED ARCHITECT

NEW BUILDING FOR:
Sandoval County
Recreation Center Building
at the Fairgrounds
37 Rodeo Road
Cuba, NM 87013

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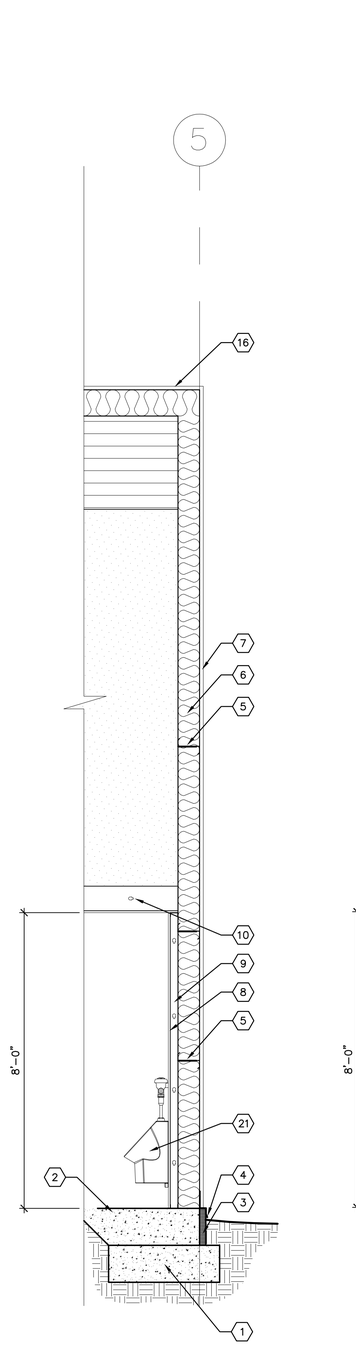
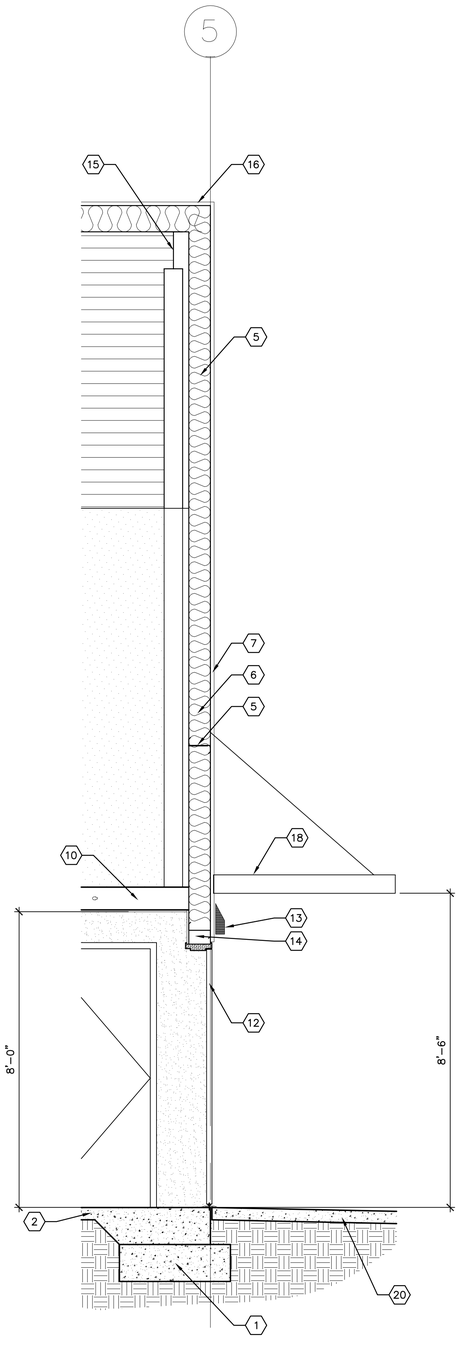
SHEET TITLE: ELEVATIONS AND SECTIONS

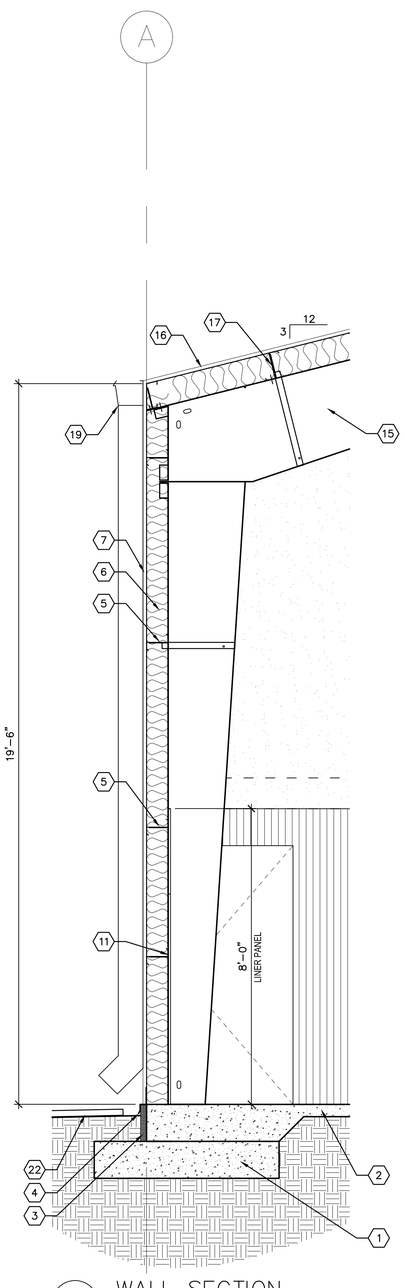
A201



A1 WALL SECTION
1/2"=1'-0"



A3 WALL SECTION
1/2"=1'-0"



A5 WALL SECTION
1/2"=1'-0"

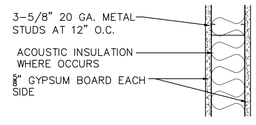
GENERAL SHEET NOTES

A. DO NOT SCALE DRAWINGS.
B. CONTRACTOR TO COORDINATE ALL DRAWINGS PRIOR TO CONSTRUCTION.
C. VERIFY EXISTING CONDITIONS IN FIELD. BRING DISCREPANCIES TO THE ATTENTION OF THE ARCHITECT.
D. DIMENSIONS ARE TO GRIDLINE AND FACE OF STUD UNLESS NOTED OTHERWISE.
E. 'FF' INDICATES THAT THE DIMENSION IS A CRITICAL FINISHED DIMENSION MEASURED TO THE FINISHED FACE OF PARTITIONS.
F. SEE SHEET A606 FOR ROOM FINISH SCHEDULE.
G. REFER TO ENLARGED PLANS FOR DIMENSIONS WITHIN THOSE AREAS.
H. SEE SHEET A501 FOR PARTITION / WALL TYPES.
I. SEE REFLECTED CEILING PLANS FOR CEILING HEIGHTS.
J. PROVIDE MOISTURE RESISTANT GYPSUM BOARD AT ALL RESTROOMS AND CUSTODIAL ROOMS.

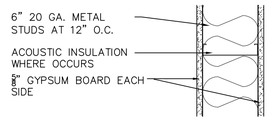
SHEET KEYNOTES

1. CONCRETE FOOTING. REFER TO STRUCTURAL PLANS.
2. CONCRETE SLAB. REFER TO STRUCTURAL PLANS. SEE A606 FOR FINISH SCHEDULE.
3. 2" RIGID INSULATION.
4. FOUNDATION SCREED. TYPICAL.
5. 'Z' GIRT.
6. R-19 INSULATION BY BUILDING MANUFACTURER.
7. EXTERIOR METAL WALL PANEL.
8. 5/8" GYPSUM BOARD.
9. 2.5" METAL STUD.
10. METAL JOIST, REFER TO STRUCTURAL PLANS.
11. 28 GA. LINER PANEL PAINTED WHITE INSTALLED TO 8'-0" WITH TOP CLOSURE TRIM, BY BUILDING MANUFACTURER. BY OWNER, N.I.C.
12. HOLLOW METAL DOOR AND FRAME.
13. LIGHT, SEE ELECTRICAL PLANS.
14. STEEL BEAM/LINTEL. REFER TO STRUCTURAL PLANS.
15. PRE-ENGINEERED STRUCTURAL MEMBER.
16. METAL ROOF PANEL.
17. PURLIN.
18. METAL ENTRY OVERHANG, BY BUILDING MANUFACTURER.
19. GUTTER AND DOWNSPOUT, BY BUILDING MANUFACTURER.
20. CONCRETE S.O.G.
21. PLUMBING FIXTURE, SEE MECHANICAL PLANS.
22. SPLASH BLOCK, SEE SPECIFICATIONS.

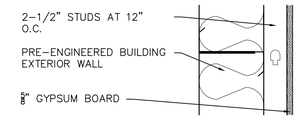
NOTE PROVIDE SOUND BATT INSULATION AT INTERIOR PERIMETER WALLS AT TOILETS.



A 3 5/8" WALL TYPE
1 1/2" = 1'-0"



B 6" WALL TYPE
1 1/2" = 1'-0"



C 2-1/2" FUR-OUT
1 1/2" = 1'-0"

A6 WALL TYPES
1-1/2"=1'-0"

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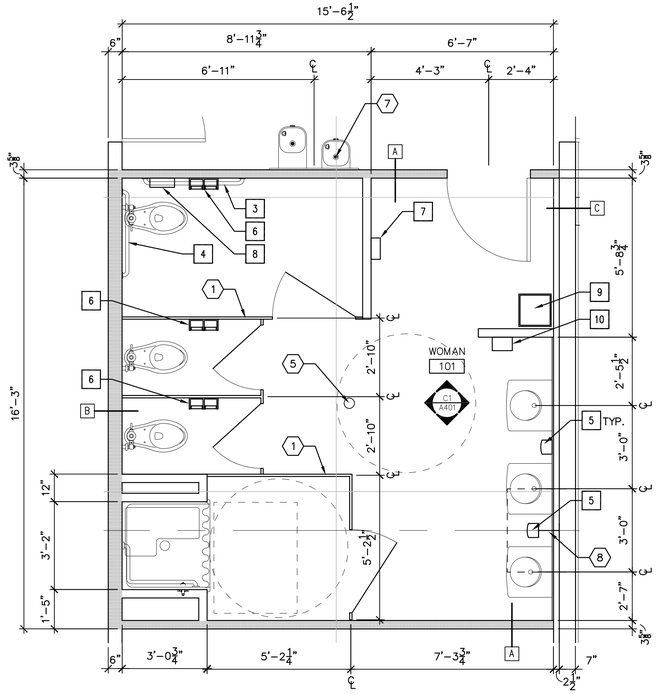
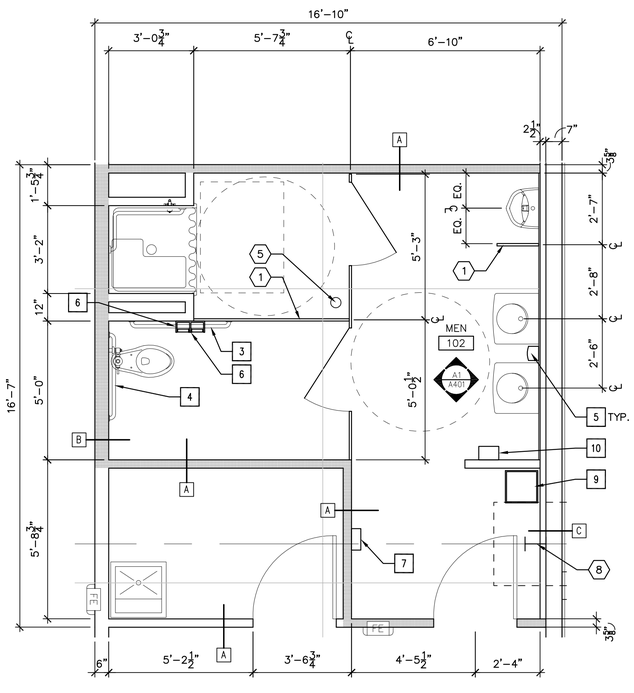
SHEET TITLE: WALL SECTIONS.

A310





NOTE PROVIDE SOUND BATT INSULATION AT HATCHED WALLS.

E1 WOMENS TOILET 101– ENLARGED PLAN

3/8"=1'-0"

E5 MENS TOILET 102 – ENLARGED PLAN

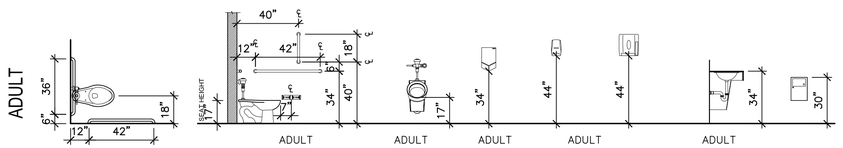
3/8"=1'-0"

TOILET ACCESSORIES

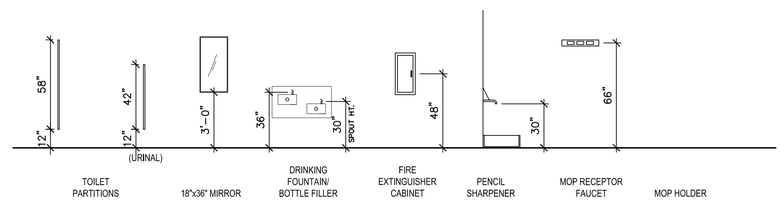
1 BOBRICK B-6806 99 X 18"	GRAB BAR, 18" STAINLESS STEEL. (PROVIDE BLOCKING IN WALL)	6 SURFACE MOUNT, TOILET PAPER DISPENSER	OWNER PROVIDED
2 BOBRICK B-6806 99 X 24"	GRAB BAR, 24" STAINLESS STEEL. (PROVIDE BLOCKING IN WALL)	7 HAND DRYER	OWNER PROVIDED
3 BOBRICK B-6806 99 X 36"	GRAB BAR, 36" STAINLESS STEEL. (PROVIDE BLOCKING IN WALL)	8 SURFACE MOUNTED SANITARY NAPKIN DISPOSAL	OWNER PROVIDED
4 BOBRICK B-6806 99 X 42"	GRAB BAR, 42" STAINLESS STEEL. (PROVIDE BLOCKING IN WALL)	9 WASTE RECEPTACLE	OWNER PROVIDED
5 SURFACE MOUNTED SOAP DISPENSER	OWNER PROVIDED	10 PAPER TOWEL DISPENSER	OWNER PROVIDED

SEE SPECS FOR INSTALLATION INSTRUCTIONS FOR ALL TOILET ACCESSORIES, INSTALL PER MANUFACTURES RECOMMENDATION

ADULT

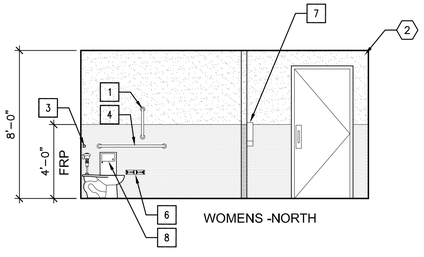


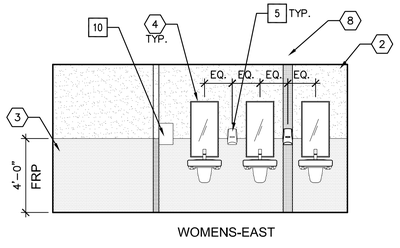
UNIVERSAL

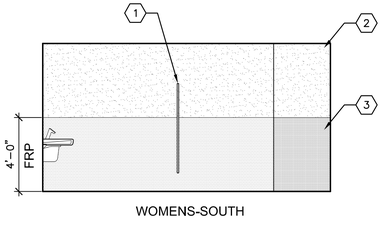


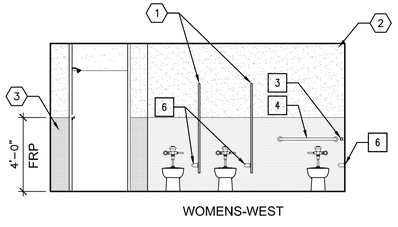
E7 FIXTURE HEIGHTS

1/4"=1'-0"



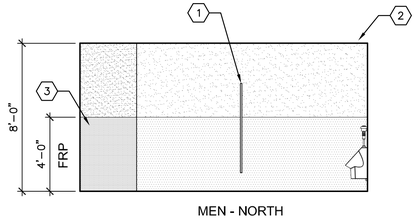


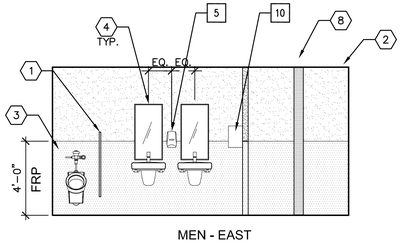


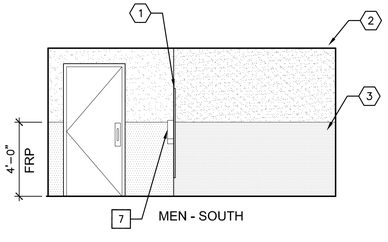


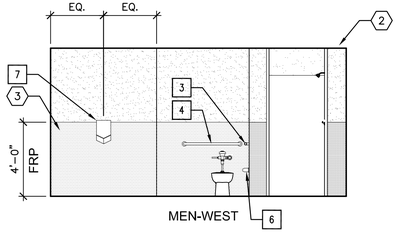
C1 WOMENS TOILET– INTERIOR ELEVATIONS

1/4"=1'-0"









A1 MENS TOILET– INTERIOR ELEVATIONS

1/4"=1'-0"

GENERAL SHEET NOTES

A. DO NOT SCALE DRAWINGS.
B. CONTRACTOR TO COORDINATE ALL DRAWINGS PRIOR TO CONSTRUCTION.
C. DIMENSIONS ARE TO STUDS UNLESS OTHERWISE NOTED.
D. "FF" INDICATES THAT THE DIMENSION IS A CRITICAL FINISHED DIMENSION MEASURED TO THE FINISHED FACE OF PARTITIONS.
E. PROVIDE TOILET PARTITIONS PER SPECIFICATIONS CONTRACTOR TO VERIFY SIZES AND LAYOUT OF NEW PARTITIONS PRIOR TO ORDERING. INSTALL PARTITIONS IN THE LOCATIONS PER FLOOR PLANS UNLESS OTHERWISE NOTED.
F. PROVIDE NEW PLUMBING FIXTURES PER PLUMBING DRAWINGS. INSTALL PLUMBING FIXTURE PER PLANS AND ELEVATIONS, LOCATE ACCESSIBLE W.C PER FLOOR PLANS AND ELEVATIONS, LOCATE ALL OTHER W.C'S IN THE CENTER OF STALL-TYP. REFER TO PLUMBING DRAWINGS FOR ADDITIONAL INFORMATION.
G. PROVIDE SOLID WOOD BLOCKING AND BACKING AS REQUIRED FOR INSTALLATIONS OF WALL MOUNTED ACCESSORIES, GRAB BARS, AND OTHER WALL PARTITION MOUNTED ACCESSORIES.
H. USE MOISTER RESISTANT GYPSUM BOARD IN TOILETS

SHEET KEYNOTES

1. METAL TOILET PARTITIONS. SEE SPECIFICATIONS.
2. GYPSUM BOARD. PAINTED
3. FRP TO 4'-0"
4. MIRROR.
5. FLOOR DRAIN. SEE PLUMING SCHEDULE.
6. EMERGENCY LIGHT.
7. DRINKING FOUNTAIN. SEE PLUMBING DRAWINGS.
8. BUILDING COLUMN.

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A401

DOOR SCHEDULE FIRST LEVEL

DOOR #	SIZE WIDTH	SIZE HEIGHT	SIZE THICK	TYPE	GLAZING		FRAME MATERIAL	FRAME TYPE	FRAME DEPTH	DETAILS HEAD	DETAILS JAMB	DETAILS JAMB	DETAILS THRESH.	REMARKS
GROUND LEVEL														
V100.1	6'-0"	7'-0"	1-3/4"	2			H.M	N/A	4 1/2"					
V100.2	6'-0"	7'-0"	1-3/4"	6			H.M	N/A	4 1/2"					
101.1	3'-0"	7'-0"	1-3/4"	4			H.M	N/A	4 1/2"					
102.1	3'-0"	7'-0"	1-3/4"	4			H.M	N/A	4 1/2"					
103.1	3'-0"	7'-0"	1-3/4"	4			H.M	N/A	4 1/2"					
104.1	6'-0"	7'-0"	1-3/4"	3			H.M	N/A	4 1/2"					
104.2	3'-0"	7'-0"	1-3/4"	1			H.M	N/A	4 1/2"					
104A.1	6'-0"	7'-0"	1-3/4"	5			H.M	N/A	4 1/2"					
104B.1	3'-0"	7'-0"	1-3/4"	4			H.M	N/A	4 1/2"					

ALL DOOR FRAMES DOORS & HARDWARE TO BE PROVIDED BY GENERAL CONTRACTOR

ROOM FINISH SCHEDULE FIRST LEVEL

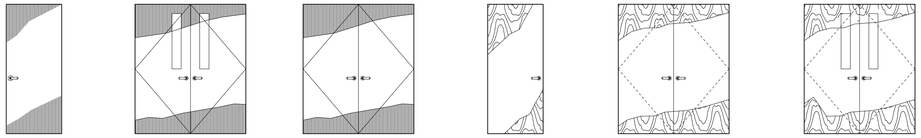
ROOM NAME	ROOM NUMBER	FLOOR	BASE	WALLS N	WALLS S	WALLS E	WALLS W	CEILING MATL	CEILING HEIGHT	NOTES
VESTIBULE	100	SC	RB	PT	PT	PT	PT	PT	8'-0"	
WOMAN	101	SC	RB	FRP/PT	FRP/PT	FRP/PT	FRP/PT	PT	8'-0"	
MEN	102	SC	RB	FRP/PT	FRP/PT	FRP/PT	FRP/PT	PT	8'-0"	
JANITOR	103	SC	RB	FRP/PT	FRP/PT	FRP/PT	FRP/PT	PT	8'-0"	
MAIN	104	SC	NB	MP/EXP	MP/EXP	MP/EXP	MP/EXP	EXP	VARIES	
STORAGE	104A	SC	RB	PT	PT	PT	PT	PT	8'-0"	
MECH./ELEC.	104B	SC	RB	PT	PT	PT	PT	PT	8'-0"	

FINISH SCHEDULE KEY

SC	SEALED CONCRETE
RB	RUBBER BASE
NB	NO BASE
PT	PAINTED GYPSUM BOARD
FRP	FIBER REINFORCED PANEL
EXP	EXPOSED
MP	METAL PANELS

GENERAL NOTES

1. USE MOISTURE-RESISTANT GYPSUM BOARD AT RESTROOM WET WALLS, BEHIND FRP



1 HOLLOW METAL | 2 HOLLOW METAL | 3 HOLLOW METAL | 4 WOOD | 5 WOOD | 6 WOOD

DOOR TYPES

1/4" = 1'-0"

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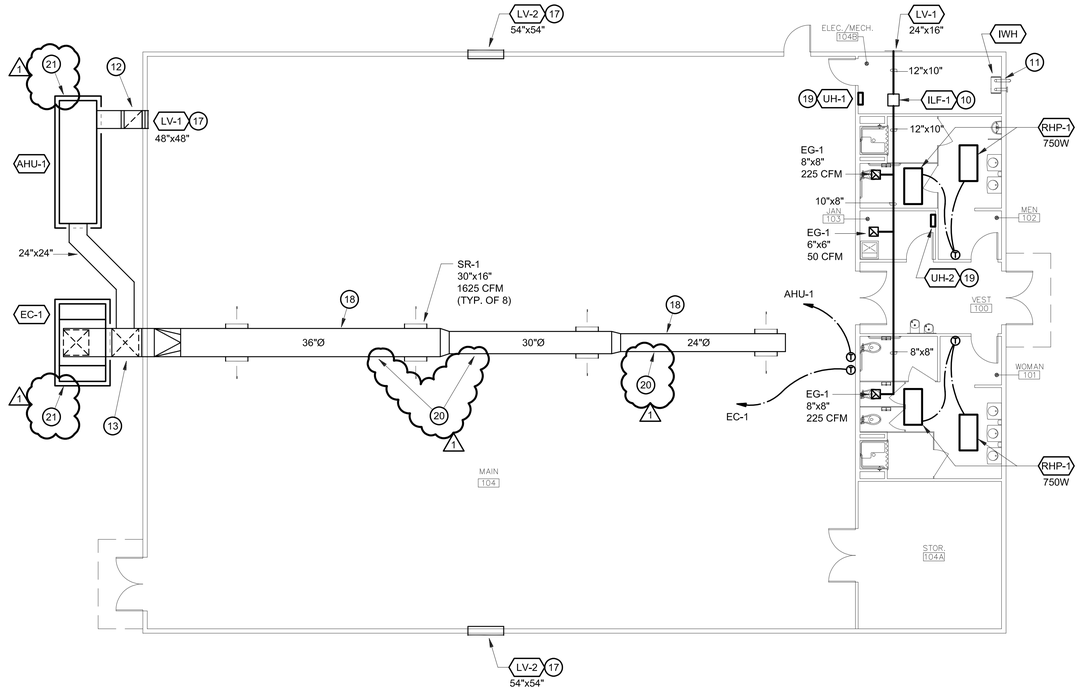
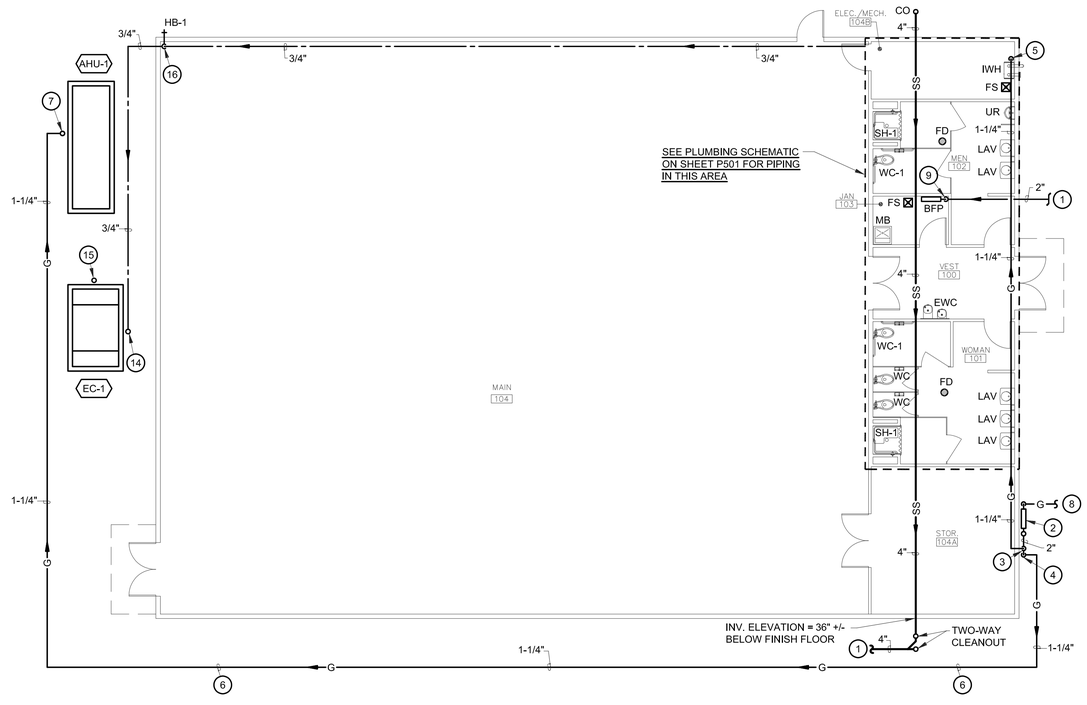
SET NO:
SHEET TITLE: DOOR SCHEDULE & FINISH SCHEDULE

A601



A1 HVAC PLAN

1/8"=1'-0"



A1 PLUMBING PLAN

1/8"=1'-0"

GENERAL NOTES

A REFER TO SHEET M601 FOR ADDITIONAL NOTES & DETAILS.

KEYED NOTES

1 REFER TO CIVIL PLANS FOR CONTINUATION.

2 NEW GAS METER AND REGULATOR ASSEMBLY INSTALLED BY LOCAL GAS AUTHORITY. CONTRACTOR SHALL COORDINATE LOCATION, SIZE AND INSTALLATION AND SHALL PAY FOR ALL COST ASSOCIATED WITH YARD LINE, GAS REGULATOR, METER, ETC. FOR A COMPLETE SYSTEM. GAS METER AND REGULATOR TO BE SET FOR A TOTAL LOAD OF 450 CFH. REGULATOR TO REDUCE PRESSURE DOWN TO 7" W.C.

3 1-1/4" GAS LINE UP ALONG WALL, THROUGH WALL AND INTO CEILING SPACE, ROUTE AS SHOWN.

4 1-1/4" GAS LINE DOWN TO BELOW GRADE AND ROUTE AS SHOWN. COORDINATE ROUTING WITH OTHER UTILITIES.

5 1-1/4" GAS LINE TO WATER HEATER. CONNECT AND PROVIDE WITH GAS VALVE, UNION, DIRT LEG AND FLEX CONNECTION. WATER HEATER WITH A TOTAL LOAD OF 200 MBH.

6 GAS LINE ROUTED BELOW GRADE. COORDINATE ROUTING WITH OTHER UTILITIES.

7 1-1/4" GAS LINE FROM BELOW UP TO MECHANICAL EQUIPMENT. CONNECT AND PROVIDE WITH GAS VALVE, UNION, DIRT LEG AND FLEX CONNECTION. MECHANICAL EQUIPMENT WITH A TOTAL LOAD OF 250 MBH.

8 GAS LINE FOR GAS MAIN. COORDINATE WITH LOCAL GAS COMPANY.

9 2" DOMESTIC WATER FROM BELOW FLOOR UP TO BACKFLOW PREVENTER.

10 INSTALL IN-LINE FAN IN CEILING SPACE PER DETAIL ON DETAIL SHEET. PROVIDE CEILING ACCESS PANEL.

11 INTAKE AND EXHAUST FLUES FROM WATER HEATER OUT THROUGH WALL AND TERMINATE PER MANUFACTURERS GUIDELINES AND RECOMMENDATION.

12 RETURN AIR DUCTWORK DOWN ON WALL AND CONNECT TO UNIT. SUPPORT DUCTWORK ON WALL WITH UNITSTRUT.

1 13 SUPPLY AIR DUCTWORK UP ON WALL AND TURN THROUGH WALL TO APPROXIMATELY 21'-0" A.F.F. SUPPORT DUCTWORK ON WALL WITH UNITSTRUT.

14 3/4" CW FROM BELOW GRADE UP TO EVAP. COOLER. CONNECT PER MANUFACTURE'S REQUIREMENTS.

15 FULL SIZE CONDENSATE FROM MECHANICAL EQUIPMENT WITH P-TRAP AND TERMINATE 8" ABOVE GRADE.

16 3/4" CW DOWN ALONG WALL. ROUTE 3/4" CW TO HOSE BIBB (HB-1) AND EXTEND 3/4" CW TO BELOW GRADE AND ROUTE AS SHOWN. CONTRACTOR TO INSTALL PIPE DROP IN SOFFIT OR OTHER PROTECTIVE MEANS APPROVED BY ARCHITECT. INSTALL ISOLATION BALL VALVE WITH ACCESS BELOW HB-1 TO SERVE EC-1.

17 INSTALL LOUVER AT 16'-0" AFF.

18 EXPOSED DUCTWORK IN MAIN ROOM 104 SHALL NOT BE INSULATED.

19 INSTALL UNIT HEATER ON WALL PER MANUFACTURER'S GUIDELINES AND RECOMMENDATIONS.

1 20 CENTERLINE OF DUCTWORK SHALL BE 24'-0" A.F.F. COORDINATE WITH ARCHITECTURAL PLANS.

21 CONCRETE PAD TO BE 4" THICK WITH WIRE MESH THROUGH CENTER OF PAD. PAD SHALL BE 6" WIDER THAN EQUIPMENT ON ALL FOUR SIDES.

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6/7/2018

NEW BUILDING FOR:
Sandoval County
Recreation Center Building
at the Fairgrounds
37 Rodeo Road
Cuba, NM 87013

MARK	DATE	DESCRIPTION
1	18-06-07	CLARIFICATIONS

GDDA PROJECT NO: 17-113
DATE: 5/23/2018
DRAWN BY: MGO
CHECKED BY: WAY
SET NO:
SHEET TITLE: MECHANICAL FLOOR PLANS

MP-101

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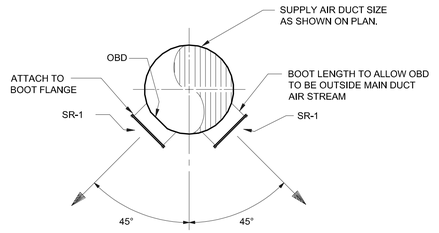
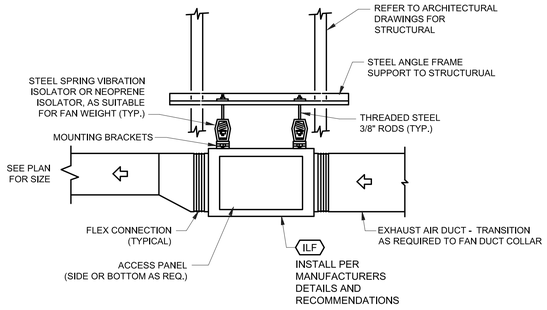


SUPPLY REGISTER MOUNT DETAIL

SCALE: NONE



IN-LINE EXHAUST FAN DETAIL

SCALE: NONE

SYMBOL LEGEND

ABBR.	SYMBOL	DESCRIPTION
	○	KEYED NOTES
	⬡	EQUIPMENT DESIGNATION
TYP		TYPICAL
AFF		ABOVE FINISH FLOOR
CFM		CUBIC FEET PER MINUTE
DIA	Ø	DIAMETER
POC	⊗	POINT OF CONNECTION
T'STAT	Ⓣ	THERMOSTAT
	—⊸	RISER DOWN
	—⊸	RISER UP
D	— D —	CONDENSATE DRAIN
G	— G —	GAS - LOW PRESSURE
	—▸	CAP ON END OF PIPE
	20/12	RIGID DUCTWORK - FIRST FIGURE IS SIDE SHOWN
	- - - - -	FLEXIBLE DUCTWORK
	▸	DUCT TRANSITION
CD	☒	CEILING SUPPLY AIR OUTLET
RG/EG	⧄	CEILING RETURN OR EXHAUST AIR INLET
	—▭	SIDEWALL SUPPLY AIR OUTLET
	▭~	SIDEWALL RETURN OR EXHAUST AIR INLET
S/FD	—·—Ⓢ	SMOKE/FIRE DAMPER
MVD	—┐	MANUAL VOLUME DAMPER

HVAC GENERAL NOTES

A. ALL RECTANGULAR DUCT SIZES SHOWN ARE INSIDE DIMENSIONS. RECTANGULAR DUCTS SHALL BE EXTERNALLY INSULATED. ROUND DUCTS SHALL BE EXTERNALLY INSULATED, UNLESS OTHERWISE NOTED.

B. ALL DUCT SEAMS SHALL BE SEALED AIRTIGHT WITH HIGH PRESSURE DUCT SEALER.

C. PROVIDE ALL NECESSARY FITTINGS FOR RISES AND OFFSETS IN DUCTWORK AND PIPING REQUIRED FOR PROPER INSTALLATION WHETHER OR NOT SHOWN ON DRAWINGS.

D. ALL DUCTWORK INSTALLED IN AREAS WITH CEILING TO BE ROUTED BETWEEN LIGHTS AS MUCH AS POSSIBLE AND INSTALLED AS HIGH AS POSSIBLE.

E. ALL DUCT PENETRATIONS THRU THE ROOF SHALL BE CURBED, FLASHED AND COUNTER-FLASHED TO ACHIEVE A WATERTIGHT CONSTRUCTION.

F. COORDINATE ROOF PENETRATIONS TO AND FROM EQUIPMENT WITH STRUCTURAL CONDITIONS. ROOF OPENINGS SHALL BE LOCATED BETWEEN JOISTS AND BEAMS.

G. COORDINATE THE LOCATIONS OF ALL DUCTWORK WITH ANY PLUMBING LINES AND ELECTRICAL CONDUIT. IN THE EVENT THAT ANY DUCT CANNOT BE ROUTED AS SHOWN ON THE CONTRACT DRAWINGS, THE CONTRACTOR SHALL MODIFY THE DUCT AS REQUIRED, MAINTAINING THE SAME NET FREE AREA AS THE DESIGNED DUCT. CONTRACTOR SHALL SUBMIT SHOP DRAWINGS TO THE ARCHITECT SHOWING THE PROPOSED CHANGES FOR APPROVAL. THIS SHALL BE DONE AT NO COST TO THE OWNER.

H. COORDINATE LOCATION OF ALL HVAC EQUIPMENT, GRILLES AND REGISTERS TO BE SYMMETRICAL WITH RESPECT TO LIGHTS AND CEILING GRIDS. SEE REFLECTED CEILING PLAN AND LIGHTING PLAN.

I. ALL THERMOSTATS SHALL BE MOUNTED UP 48" ABOVE FINISHED FLOOR, UNLESS OTHERWISE NOTED. PROVIDE APPROVED. STEEL VENTILATED LOCKING COVERS WITH GUARDS AT ALL THERMOSTATS. UNLESS OTHERWISE DIRECTED.

EQUIPMENT SCHEDULE

SYMBOL	DESCRIPTION
AHU-1	AIR HANDLING UNIT: UNIT SHALL CONSIST OF BLOWER, AND NATURAL GAS FURNACE SECTIONS. BLOWER CABINET SHALL BE CONSTRUCTED OF 20 GAUGE GALVANIZED STEEL WITH AN ENAMEL FINISH AND ACCESS DOOR ON EACH SIDE. THE INTERIOR SHALL HAVE A RUST-RESISTANT FINISH. MOTORS SHALL BE HEAVY-DUTY TYPE OF THE DRIP-PROOF DESIGN. 4" THICK THROW AWAY TYPE MERV 8 FILTERS AND HOLDING FRAMES. THE HEATING SECTION SHALL BE COMPLETELY WEATHERPROOFED, GAS FIRED 2 STAGE CONTROL AND STAINLESS STEEL HEAT EXCHANGER, AUTOMATIC RE-LIGHT SYSTEM, AND HIGH LIMIT DUCTSTAT, THE UNIT SHALL BE FACTORY ASSEMBLED, WIRED, AND TESTED, COMPLETE WITH ALL CONTROLS, REMOTE THERMOSTAT WITH METAL GUARD, AND CONTROL PANEL, WITH FAN OFF/ON SWITCH, HEAT/OFF/SWITCH. UNIT SHALL BE REZNOR OR APPROVED EQUAL. SYMBOL MODEL INPUT MBH CFM SP HP V/P AHU-1 RDH 250 4800 1.25" 5 240/1
ILF-1	IN-LINE FAN: SQUARE INLINE CENTRIFUGAL FAN CONSTRUCTED OF STEEL WITH BAKED ON ALKYD-ENAMEL FINISH, DIAGONAL BRACING, BACKWARD INCLINED, STATICALLY AND DYNAMICALLY BALANCED WHEEL, DIRECT DRIVE , SPEED CONTROL, ACCESS PANEL FOR MOTOR AND DRIVE, PERMANENTLY LUBRICATED. PILLOW BLOCK BALL BEARINGS, WITH COVERS, PRE DRILLED HOLES FOR DUCT CONNECTIONS, KNOCKOUTS FOR INSTALLING VIBRATION ISOLATORS AND DISCONNECT, AND FACTORY WIRED. SELECTION BASED ON GREENHECK SQ SERIES OR APPROVED EQUAL. SYMBOL MODEL CFM SP HP FRPM VOLT/PH ILF-1 SQ-90-VG 500 0.4 1/6 1604 120/1
SR-1	SUPPLY REGISTER: DOUBLE DEFLECTION REGISTER, ALL STEEL CONSTRUCTION, FRONT BLADES VERTICAL, 3/4" BLADE SPACING, OPPOSED BLADE DAMPER, SPONGE RUBBER GASKET, WHITE ENAMEL FINISH, MAXIMUM NECK VELOCITY 600 FPM, NC LEVEL LESS THAN 30. PRICE MODEL 520D/S OR APPROVED EQUAL.
UH-1 AND UH-2	UNIT HEATER: SHALL BE ELECTRIC RESISTANCE WALL MOUNTED UNIT. THE CABINET SHALL BE 18 GAUGE STEEL WITH A FACTORY BAKED ENAMEL FINISH, AND BOTTOM AIR OUTLET AIR FLOW. HEATING ELEMENTS SHALL BE TUBULAR WITH FINS, AUTOMATIC RESET THERMAL OVERLOAD PROTECTION. COMPLETE WITH WALL MOUNTING BRACKET AND BUILT IN THERMOSTAT. UNIT SHALL BE REZNOR OR EQUAL. SYMBOL SERVICE MODEL CFM KW VOLT/PH UH-1 MECH ROOM EHC 160 2 240/1 UH-2 JAN CLOSET EHC 160 2 240/1
RHP-1	RADIANT HEATING PANEL: CONSTRUCTED OF A 22 GAUGE GALVANIZED STEEL BACK OVERLAPPING AND RIVETED TO A 22 GAUGE GALVANIZED STEEL FRONT. THE PANEL HEATING ELEMENT SHALL BE SILICONE-INSULATED HEATER WIRE PERMANENTLY BONDED TO INSIDE OF PANEL. COMPLETELY PRE-WIRED, 3'-0" FLEXIBLE CONDUIT. PANELS SHALL BE COMPLETE WITH FRAME FOR SURFACE MOUNTING IN HARD CEILING, SILICONE SEALING FOR USE IN A HIGH MOISTURE AREAS. LINE VOLTAGE THERMOSTATS SHALL BE LOCATED WHERE INDICATED ON THE DRAWINGS. SELECTION BASED ON QMARK OR APPROVED EQUAL. SYMBOL MODEL WATTS AMPS VOLT/PH RHP-1 CP751 750 6.3 120/1
LV-1	LOUVER: EXHAUST AIR TYPE, ALUMINUM CONSTRUCTION, 4" DEEP WITH 45 DEGREE STATIONARY BLADES, STEEL BIRD SCREEN, FLANGED FRAME WITH EXTENDED SEAL IF NEEDED AND FACTORY PRIMED FOR FIELD PAINTING AND BIRDSCREEN. SIZE SHOWN ON PLANS. GREENHECK ESD-403 OR APPROVED EQUAL.
LV-2	LOUVER: RELIEF AIR TYPE, ALUMINUM CONSTRUCTION, 4" DEEP WITH 45 DEGREE STATIONARY BLADES, STEEL BIRD SCREEN, FLANGED FRAME WITH EXTENDED SEAL IF NEEDED AND FACTORY PRIMED FOR FIELD PAINTING AND BIRDSCREEN. PROVIDE WITH BAROMETRIC DAMPER. SIZE SHOWN ON PLANS. GREENHECK ESD-403 OR APPROVED EQUAL.
EG-1	EXHAUST GRILLE: EGGCRATE GRILLE, 1/2" X 1/2" X 1/2" GRID, ALUMINUM CONSTRUCTION FRAME FOR HARD CEILING, OBD, WHITE ENAMEL FINISH. PRICE 80F OR APPROVED EQUAL.
EC-1	EVAPORATIVE COOLER: HI-DENSITY RIGID MEDIA TYPE EVAPORATIVE COOLER COMPLETE WITH CABINET, BLOWER WHEEL, HOUSING AND MOTOR, WATER DISTRIBUTION TROUGH, FLOAT VALVE, RECIRCULATING WATER PUMP, AND ALL ACCESSORIES REQUIRED FOR A COMPLETE OPERATING SYSTEM. THE CABINET SHALL BE CONSTRUCTED OF HEAVY GAUGE HOT DIPPED GALVANIZED STEEL WITH ALL SUPPORTS OF WELDED CONSTRUCTION. THE ENTIRE WATER RESERVOIR SHALL BE COATED WITH A PROTECTIVE ASPHALT COATING. COOLER EXTERIOR SHALL BE FINISHED WITH A FACTORY APPLIED ENAMEL FINISH. BLOWER MOTOR SHALL BE SPECIFICALLY DESIGNED FOR USE IN EVAPORATIVE COOLER APPLICATION WITH BEARINGS PERMANENTLY LUBRICATED AND SHALL BE FURNISHED WITH AN ADJUSTABLE SHEAVE. RECIRCULATING WATER PUMP SHALL HAVE PERMANENTLY LUBRICATED BRONZE BEARINGS. WATERPROOF INSULATION AND WATER SHIELD CAP. UNIT SHALL BE AEROCOOL BY PHOENIX MANUFACTURING AS INDICATED OR APPROVED EQUAL. UNIT SHALL BE UP-FLOW CONFIGURATION. PROVIDE WITH VARIABLE FREQUENCY DRIVE, MODEL MITSUBISHI FR-F800. SYMBOL MODEL CFM SP HP VOLT/PH SPEED EC-1 IUP800 13,000 0.6" 5 240/1 1

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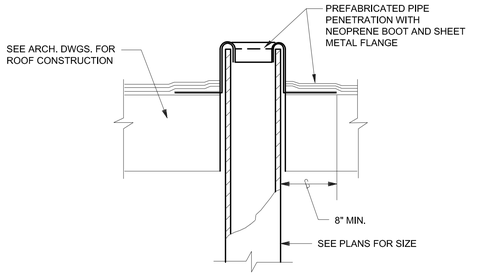
5/23/2018

NEW BUILDING FOR:
Sandoval County
Recreation Center Building
at the Fairgrounds
37 Rodeo Road
Cuba, NM 87013

MARK	DATE	DESCRIPTION

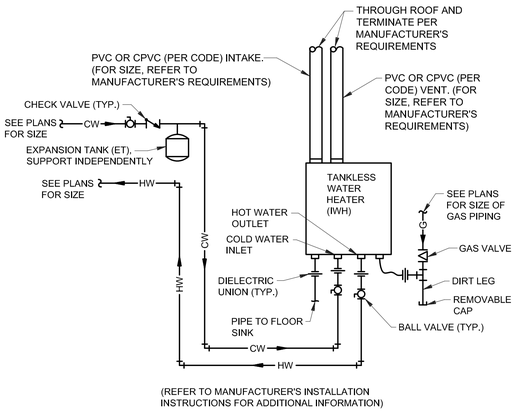
GDDA PROJECT NO: 17-113
DATE: 5/23/2018
DRAWN BY: MGO
CHECKED BY: WAY
SET NO:
SHEET TITLE: MECHANICAL LEGEND, DETAIL,NOTES & SCHEDULES

M-601



VENT THRU ROOF

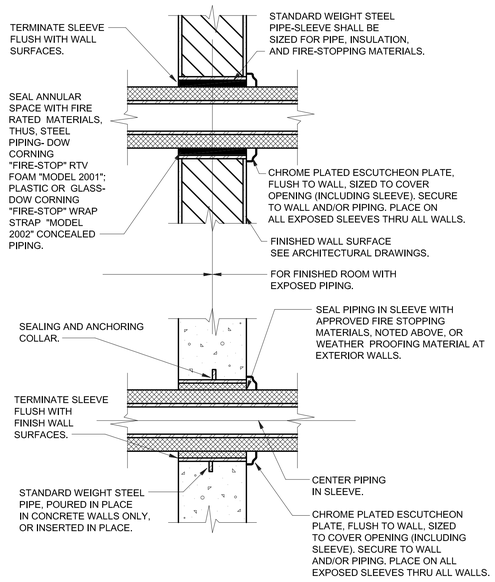
SCALE: NONE



(REFER TO MANUFACTURER'S INSTALLATION INSTRUCTIONS FOR ADDITIONAL INFORMATION)

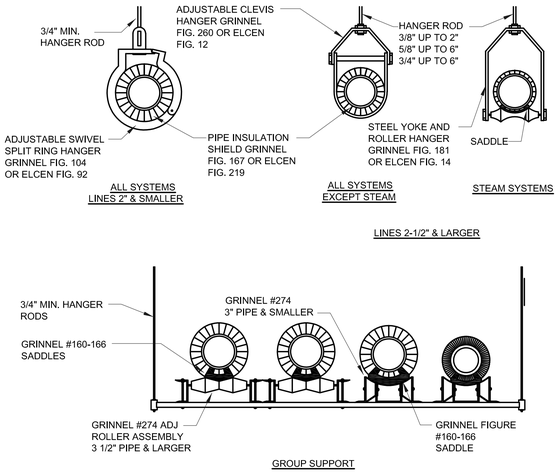
TANKLESS WATER HEATER PIPING SCHEMATIC

SCALE: NONE



PIPE SLEEVE THRU WALL DETAIL

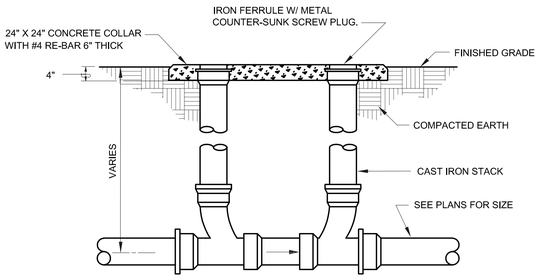
SCALE: NONE



GROUP SUPPORT

PIPE SUPPORTS DETAIL

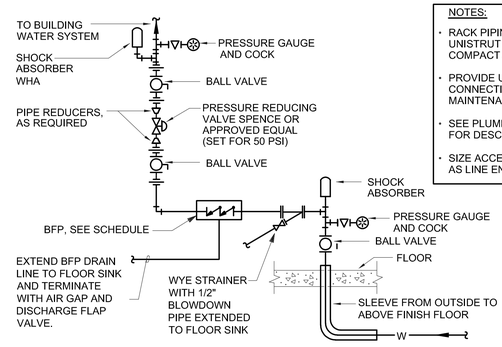
SCALE: NONE



NOTE: THIS DETAIL SIMILAR FOR ONE-WAY CLEAN-OUT TO GRADE.

TWO-WAY CLEANOUT TO GRADE DETAIL

SCALE: NONE

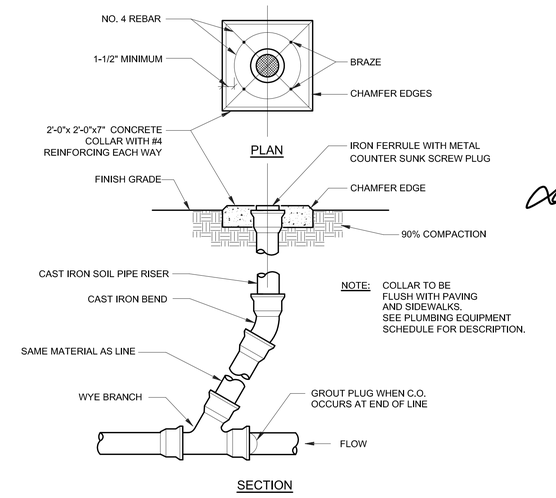


NOTES:

- RACK PIPING VERTICALLY ON WALL ON UNISTRUT FRAMING AND INSTALL AS COMPACT AS POSSIBLE.
- PROVIDE UNIONS OR FLANGED CONNECTIONS WHERE SHOWN, FOR MAINTENANCE REMOVAL.
- SEE PLUMBING EQUIPMENT SCHEDULE FOR DESCRIPTION OF EQUIPMENT
- SIZE ACCESSORIES TO BE THE SAME AS LINE ENTERING BUILDING.

DOMESTIC WATER ENTRANCE WITH BFP DETAIL

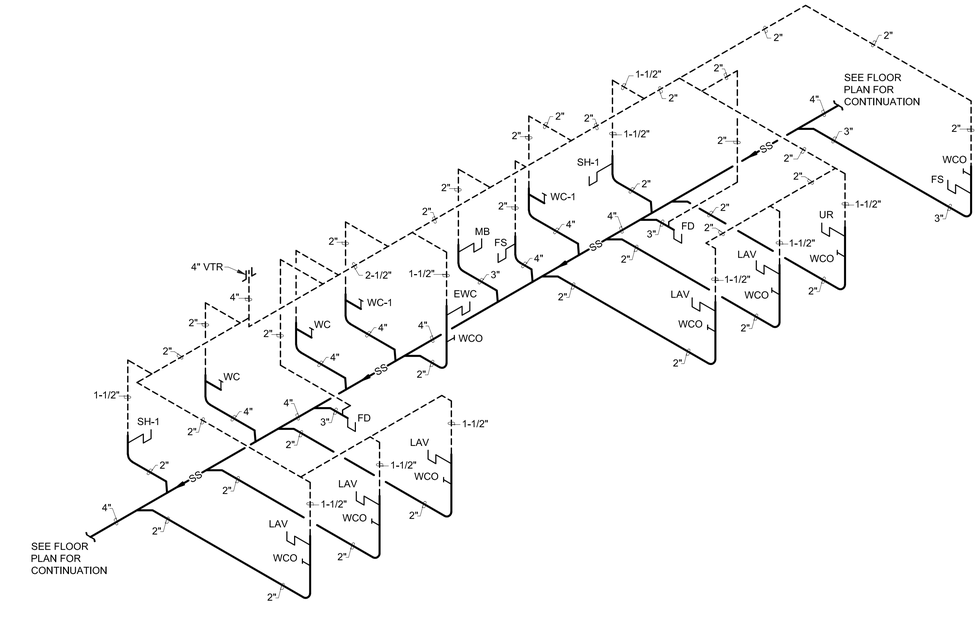
SCALE: NONE



SECTION

CLEANOUT TO GRADE DETAIL

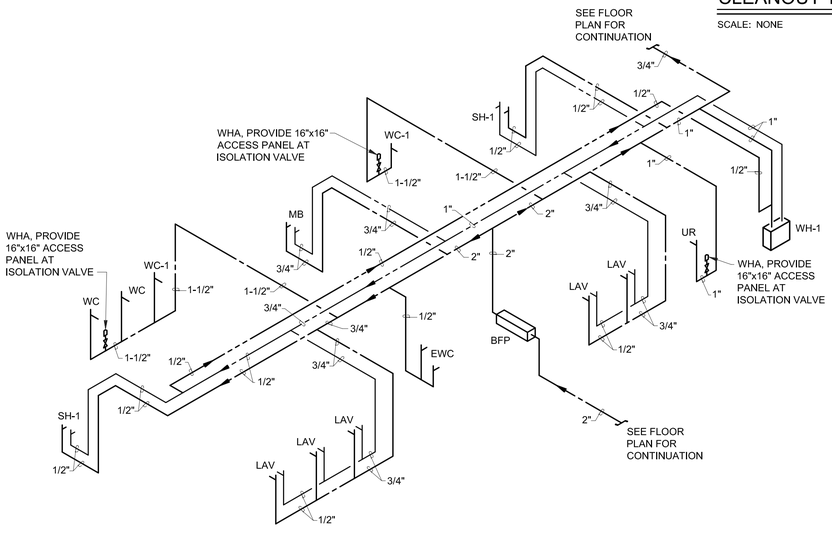
SCALE: NONE



WASTE & VENT RISER

A1

NOT TO SCALE



COLD & HOT WATER RISER

A3

NOT TO SCALE

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DAVID C. GRAHAM STATE OF NEW MEXICO 13658 REGISTERED PROFESSIONAL ENGINEER
5/23/2018

NEW BUILDING FOR:
Sandoval County
Recreation Center Building
at the Fairgrounds
37 Rodeo Road
Cuba, NM 87013

MARK	DATE	DESCRIPTION

GDDA PROJECT NO: 17-113
DATE: 5/23/2018
DRAWN BY: MGO
CHECKED BY: WAY
SET NO:
SHEET TITLE: PLUMBING RISERS & DETAILS

P-501

GENERAL PLUMBING NOTES

A. ALL PIPING SHALL BE CONCEALED WHERE POSSIBLE. ALL EXPOSED PIPING, WHERE CONCEALMENT IS NOT POSSIBLE, SHALL BE INSTALLED AND PAINTED AS DIRECTED BY THE ARCHITECT.

B. ALL PIPING SHALL BE INSULATED, SEE SPECIFICATIONS.

C. ALL BRANCHES SHALL BE VALVED AND ALL VALVES SHALL HAVE UNIONS ADJACENT. ACCESS PANELS AND DOORS SHALL BE FURNISHED TO GENERAL CONTRACTOR FOR INSTALLATION AND ACCESS TO VALVES WHERE REQUIRED. LOCATE ADDITIONAL VALVES AS SHOWN ON DRAWINGS. SEE SPECIFICATIONS FOR ACCESS DOOR REQUIREMENTS.

D. ALL PIPING SHALL PITCH TO DRAIN, AND CONTRACTOR SHALL PROVIDE VALVING FOR SYSTEM DRAINAGE. CONTRACTOR SHALL DELIVER A MARKED-UP SET OF PLANS TO THE OWNER (PRIOR TO FINAL PAYMENT) SHOWING ALL BRANCH VALVES AND ALL DRAINAGE POINTS.

E. CARE SHALL BE TAKEN TO AVOID MECHANICAL DUCTWORK, ELECTRICAL EQUIPMENT AND AIR HANDLING EQUIPMENT ABOVE CEILING. THIS CONTRACTOR SHALL BE RESPONSIBLE FOR COORDINATING ROUTING OF PIPING WITH CEILING CONTRACTOR AND SHEET METAL CONTRACTOR. RELOCATION OF PIPING AS A RESULT OF POOR COORDINATION BY THIS CONTRACTOR SHALL BE AT HIS OWN EXPENSE.

F. NO WATER PIPING SHALL BE LOCATED IN OUTSIDE WALLS, UNLESS SHOWN TO BE AND THEN PIPING TO BE INSULATED AND LOCATED AS CLOSE AS POSSIBLE TO INSIDE OF WALL CAVITY WITH ADDITIONAL INSULATION BETWEEN PIPING AND EXTERIOR OF WALL.

G. WRITTEN PRIOR APPROVAL REQUIRED FOR ALL PROPOSED SUBSTITUTIONS OF EQUIPMENT AND MATERIALS, RECEIVED BY ENGINEER, 10 DAYS PRIOR TO BID DATE OF PROJECT TO ALLOW ADEQUATE TIME FOR REVIEW AND RESPONSE.

H. ALL TRENCHING AND BACKFILL FOR PIPING SHALL BE THE RESPONSIBILITY OF THIS CONTRACTOR.

I. ALL SEWER PIPING BELOW FLOOR SLAB (BELOW GRADE) SHALL BE STANDARD WEIGHT HUB AND SPIGOT CAST IRON.

J. ALL PIPE PENETRATIONS THRU FIRE-RATED ASSEMBLIES SHALL BE SLEEVED AND SEALED WITH CODE-APPROVED FIRE BARRIER MATERIALS.

K. SECURE ALL PIPING TO WALLS FOR A RIGID INSTALLATION WITH UNISTRUT BRACKETS AND GASKETED PIPE CLAMPS.

SYMBOL LEGEND

ABBR.	SYMBOL	DESCRIPTION
		EQUIPMENT DESIGNATION
		KEYED NOTES
TYP		TYPICAL
POC		POINT OF CONNECTION
FCO		FLOOR CLEANOUT
WCO		WALL CLEANOUT
VTR		VENT THRU ROOF
		RISER DOWN
		RISER UP
		DROP
		RISER UP
HB		HOSE BIBB / WALL HYDRANT
CW		COLD WATER LINE
HW		HOT WATER LINE
HWR		CIRCULATING HOT WATER
V		VENT PIPING
SS	SS	SANITARY SEWER OR WASTE LINE
G	G	GAS PIPING
D	D	CONDENSATE DRAIN LINE
FD		FLOOR DRAIN
FS		FLOOR SINK
CAP		CAP ON END OF PIPE
		FLANGED CONNECTION
		VALVE IN RISER
		THERMOMETER
		PRESSURE GAUGE
		FLOW SWITCH
		PRESSURE GAUGE W/ GAUGE COCK
		GATE VALVE
		GLOBE VALVE
		CHECK VALVE
		PLUG VALVE
		CONTROL VALVE (THREE-WAY)
		CONTROL VALVE (TWO-WAY)
		RELIEF VALVE
		PRESSURE REDUCING VALVE
		BALL VALVE
		STRAINER
		UNION

PLUMBING FIXTURE/EQUIPMENT SCHEDULE

SYMBOL	DESCRIPTION
BFP	BACKFLOW PREVENTOR: WATTS SERIES LF009 REDUCED PRESSURE BACKFLOW PREVENTION DEVICE, LEAD FREE, TWO IN-LINE CHECK VALVES, CAPTURED SPRINGS AND REPLACEABLE CHECK SEATS WITH AN INTERMEDIATE RELIEF VALVE, WORKING PRESSURE UP TO 175 PSI AND WATER TEMPERATURES OF 33 F TO 180 F, USC APPROVED, FURNISH WITH AG-1 AIR GAP AND DRAIN FULL SIZE (PER MANUFACTURE'S REQUIREMENTS) TO FLOOR SINK, ANTICIPATED DRAIN SIZE, PER SPECIFIED EQUIPMENT MANUFACTURE, IS 4" DRAIN LINE. 2" BACKFLOW PREVENTOR SIZE.
IWH	TANKLESS WATER HEATER: RHEEM COMMERCIAL CONDENSING TANKLESS WATER HEATER MODEL RTGH-C95DVLN, 199,900 BTU NATURAL GAS, 96% THERMAL EFFICIENCY, 0.4 GPM MINIMUM ACTIVATION FLOW RATE, 0.26 GPM MIN FLOW RATE, 9.5 GPM MAXIMUM FLOW RATE, 120 VAC / 60 HZ, 120 DEG F TEMPERATURE, 4" PVC SCHEDULE 40 VENTING, DIRECT VENT (AIR INTAKE AND EXHAUST), OR APPROVED EQUAL. FLOW SHALL BE RATED AT 6.3 GPM WITH A 60 DEGREE F TEMPERATURE RISE.
WCO	WALL CLEANOUT: J.R. SMITH 4530-Y CAST IRON C.O. TEE WITH BRASS PLUG AND ROUND STAINLESS STEEL ACCESS COVER WITH VANDAL PROOF SCREW.
FD	FLOOR DRAIN: J.R. SMITH 2005-U, CAST IRON BODY WITH NICKEL BRASS STRAINER, CLAMPING COLLAR, VANDAL-PROOF SCREWS, COMPLETE WITH TRAP GUARD MODEL SURE SEAL SS300V, SIZE TO MATCH FLOOR DRAIN. TRAP 3" VENT 2" CW - HW -
FS	FLOOR SINK: ZURN - SANI-FLOOR RECEPTOR, MODEL Z-1930, 8" X 4" X 4" DEEP CAST IRON BODY AND RECTANGULAR SQUARE HOLE , LIGHT DUTY GRATE1/2 GRATE, COMPLETE WITH TRAP GUARD MODEL SURE SEAL SS300V, SIZE TO MATCH FLOOR SINK. 2" VENT
TG	TRAP GUARD: MODEL SURE SEAL, SIZE TO MATCH FLOOR SINK / FLOOR DRAIN.
WHA	WATER HAMMER ARRESTOR: STAINLESS STEEL CONSTRUCTION, PRE-CHARGED, PERMANENTLY SEALED. PIPE SIZE: 3/4", P.D.I. UNIT RATING: 12-32, MFG.: JAY R. SMITH FIG. NO. 5010.
CO	CLEANOUT SMITH MODEL 4475 CAST BRONZE TAPER THREAD PLUG.
ET	EXPANSION TANK: AMTROL ST-C SERIES MODEL ST-12-C PRE-PRESSURIZED TANK WITH SEALED IN AIR CHARGE OF 55 PSI. SIZE: TANK VOLUME=6.4 GAL., 3.2 GAL MAXIMUM RECOMMENDED ACCEPTANCE VOLUME.
TMV	THERMOSTATIC MIXING VALVE: LEONARD MODEL 270-LF-STSTL-REC CAPABLE OF .25 GPM TO 12 GPM AT 25 PSI PRESSURE DROP WITH 1/2" CONNECTIONS, BRONZE BODY, THERMOSTAT, WITH LOCKING TEMPERATURE ADJUSTMENT, RECESSED, CABINET WITH STEEL BAKED ENAMEL CONSTRUCTION, HINGED HARD DOOR AND CYLINDER LOCK.
HB-1	HOSE BIBB / WALL HYDRANT: INSTALL AT 36" A.F.F., WOODFORD MODEL 65. AUTOMATIC DRAINING, FREEZELESS WALL HYDRANT WITH HOSE CONNECTION ANTI-SIPHON VACUUM BREAKERS. SIZE FOR APPROPRIATE WALL THICKNESS. 3/4" INLET CONNECTION.

PLUMBING FIXTURE/EQUIPMENT SCHEDULE

SYMBOL	DESCRIPTION
WC-1	WATER CLOSET: AMERICAN STANDARD "MADERA 16.5" H EL 3461.001 1.6 GPF, FLOOR MOUNTED, HIGH EFFICIENCY, SIPHON JET, VITREOUS CHINA, ELONGATED RIM, BOLT CAPS (16.5" RIM HEIGHT), 1-1/2" TOP SPUD, SLOAN REGAL 111, 1.6 GPF FLUSH VALVE WITH VACUUM BREAKER, 1" SCREWDRIVER ANGLE STOP AND FLUSH CONNECTION, SOLID WHITE PLASTIC SEAT WITH OPEN FRONT, EXTENDED BACK AND SELF-SUSTAINING CHECK HINGE, LESS COVER. UNIT SHALL MEET ALL ADA REQUIREMENTS FOR THE PHYSICALLY CHALLENGED. TRAP 3" VENT 2" CW 1-1/2" HW
WC	WATER CLOSET: AMERICAN STANDARD "MADERA 16.5" H EL 3461.001 1.6 GPF, FLOOR MOUNTED, HIGH EFFICIENCY, SIPHON JET, VITREOUS CHINA, ELONGATED RIM, BOLT CAPS (16.5" RIM HEIGHT), 1-1/2" TOP SPUD, SLOAN REGAL 111, 1.6 GPF FLUSH VALVE WITH VACUUM BREAKER, 1" SCREWDRIVER ANGLE STOP AND FLUSH CONNECTION, SOLID WHITE PLASTIC SEAT WITH OPEN FRONT, EXTENDED BACK AND SELF-SUSTAINING CHECK HINGE, LESS COVER. TRAP 3" VENT 2" CW 1-1/2" HW
UR	URINAL: AMERICAN STANDARD "ALLBROOK" 6541.132, VITREOUS CHINA, SIPHON JET ACTION, WALL URINAL, 3/4" TOP SPUD, JR SMITH NO. 0636 URINAL SUPPORT, SLOAN NO.186-1 E FLUSH VALVE WITH VACUUM BREAKER (1.0 GPF), SCREWDRIVER ANGLE STOP AND FLUSH CONNECTION. UNIT SHALL MEET ALL ADA REQUIREMENTS FOR THE PHYSICALLY CHALLENGED. TRAP 2" VENT 1-1/2" CW 3/4" HW
LAV	LAVATORY, AMERICAN STANDARD "LUCERNE" WALL MOUNTED 20"X18" NOMINAL SIZE 0355012.020 FOR FLOOR MOUNTED CONCEALED ARM CARRIER (J.R. SMITH) WITH 5402.172H HERITAGE SUPPLY FITTING WITH 1.5 GPM, INDEXED HANDLES AND GRID DRAIN. THERMOSTATIC MIXING VALVE (TMV), 4" CENTER SET FAUCET. PROVIDE AND INSTALL WATTS STAINLESS STEEL FLEXIBLE RISER, ANGLE STOPS, P-TRAP AND TRUEBRO 102/103-W INSULATION KIT. CONNECTION SIZES: CW=1/2", HW=1/2", WD=1-1/2"
SH-1	SHOWER: FIAT MODEL A 3636.01F, ONE PIECE TRANSFER SHOWER MODULE, CAST ACRYLIC, SOAP SHELF, PRE DRILLED FOR VALVE AND HAND HELD SHOWER, ANTI SKID FLOOR TREATMENT 2" CAST BRASS DRAIN WITH CHROME PLATED STRAINER, STAINLESS STEEL HORIZONTAL GRAB BAR, FOLD-UP SEAT, STAINLESS STEEL CURTAIN ROD, SHOWER CURTAIN WITH HOOKS, ANTIMICROBIAL PROTECTION, COMPLETE WITH 180AA PRESSURE BALANCED SHOWER VALVE WITH LEVER HANDLE, INTEGRAL STOPS AND H11 HAND HELD SHOWER WITH SWIVEL FITTING, 69" STAINLESS STEEL HOSE, H-12 24" GLIDE BAR, IN LINE VACUUM BREAKER, , 2 GPM FLOW RATE.
MB	MOP BASIN: FIAT MODEL MSB 2424, SIZE 24" X 24" X 10" DEEP, CONSTRUCTED OF MOLDED STONE, UNIT SHALL HAVE 10" HIGH WALLS, NOT LESS THAN 1" WIDE SHOULDERS, COMPLETE WITH NO. 874 DRAIN BODY WITH LOCKNUT, NEOPRENE GASKETS AND COMBINATION DOME STRAINER-LINT BASKET CONSTRUCTED OF 302 16-GAUGE STAINLESS STEEL, #830-AA SUPPLY FITTING WITH VACUUM BREAKER, INTEGRAL STOP, ADJUSTABLE WALL BRACE, PAIL HOOK AND 3/4" HOSE THREAD ON SPOUT AND #889-CC MOP HANGER. TRAP 3" VENT 2" CW 1/2" HW 1/2"
EWC	ELECTRIC WATER COOLER: ELKAY ADA APPROVED MODEL LZSTL8, BI-LEVEL STATION, WALL MOUNTED, SELF CLOSING EASY-TOUCH PUSHBAR ACTIVATION, WATERSENTRY VII 1500-GALLON CAPACITY FILTRATION SYSTEM, ONE-PIECE STAINLESS STEEL BASIN WITH INTEGRAL DRAIN GRID, FLEXI-GUARD SAFETY BUBBLER, CAPABLE OF DELIVERING 8.0 GPH OF 50 DEG. F WATER AT A ROOM TEMPERATURE OF 90 DEG. F. LK464 DRAIN AND TRAP ASSEMBLY, CHROME PLATED CAST BRASS ANGLE SUPPLY WITH LOOSE KEY STOP, 115V / 60 HZ, 5.0 FULL LOAD AMPS, 370 WATTS, JR SMITH NO. 0834 FLOOR SUPPORT, CHROME PLATED CODE APPROVED ADJUSTABLE "P" TRAP WITH WASTE-TO-WALL. TRAP 1-1/4" VENT 1-1/2" CW 1/2" HW –

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5/23/2018

NEW BUILDING FOR:
Sandoval County
Recreation Center Building
at the Fairgrounds
37 Rodeo Road
Cuba, NM 87013

MARK	DATE	DESCRIPTION

GDDA PROJECT NO: 17–113
DATE: 5/23/2018
DRAWN BY: MGO
CHECKED BY: WAY
SET NO:
SHEET TITLE: PLUMBING LEGEND, NOTES & SCHEDULES

P-601

17068
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FIXTURE SCHEDULE

TYPE	VOLT	MANUFACTURER NUMBER	FIXTURE DESCRIPTION	WATTS	LUMANS	MOUNTING
A	120	SOLAS RAY #HS19-152-50-PC-U-BK-PVB	LED HIGH-BAY WIDE BEAM DISTRIBUTION BLACK COLOR TEMP 4000K	152	19,195	PENDENT MOUNT AT 16' A.F.F
B	120	KENALL#MLHA8-48FMW-PP-NA-45L40K-DCC-1-120	LED ROUGH SERVICE FIXTURE WITH FLAT END CAPS AND MATT WHITE FINISH COLOR TEMP 4000K	49	5072	SURFACE
C	120	COLUMBIA# LCL4-40LW-E-U	4' STRIP. NON-DIM. 4000K	25.0	2500	SURFACE
EG	120	DUAL-LITE #PG-B-HTR	EXTERIOR EMERGENCY LIGHT	***	15.7W LED	WALL MOUNTED UP 8'-0" A.F.F.
EL	120	DUAL-LITE #EVC-U-R-W-	LED EXIT SIGN WITH INTERGRAL EMERGENCY LIGHITNG, INTERNAL BATTERY, RED LETTERING, WHITE FINISH, FULL 5-YEAR WARRANTY	N/A	FURNISHED WITH FIXTURE	WALL/COLUMN
EM	120	DUALLITE #EV4-I	WHITE THERMOPLASTIC LED EMERGENCY FIXTURE.	***	FURNISHED WITH FIXTURE	AS SHOWN ON THE PLANS
EXIT	120	DUALLITE #EVE-U-R-W-I	WHITE THERMOPLASTIC LED EXIT. RED LETTERS. EMERGENCY OPERATION.	***	FURNISHED WITH FIXTURE	AS SHOWN ON THE PLANS

NOTES:
1. FIXTURES WITH CATALOG INFORMATION LISTED ABOVE ARE USED AS A BASIS OF QUALITY AND PERFORMANCE. SUBSTITUTIONS/PRIOR APPROVALS SHALL COMPLY WITH SCHEDULE AND SPECIFICATIONS. IF THE FIXTURE(S) PROPOSED FOR SUBSTITUTION DO NOT COMPLY, IN OUR OPINION, THEY WILL BE REJECTED.
.

PANEL **P**
LOCATION :
DWG REF :
DWG NO :

N

SERVICE : 240/120V, 1PH, 3W
MAINS RATING : 225 AMP
MAINS OPTIONS : MAIN LUGS ONLY
INTERRUPTING RATING : 22,000 AIC
CABINET : SURFACE MOUNTED, NEMA 1, DOOR-IN-DOOR, 42 POLES

NEUTRAL BAR, GROUND BAR

CCT NO.	LOAD DESCRIPTION	BKR SIZE	LOAD (KVA)	PHASE A		PHASE B	LOAD (KVA)	BKR SIZE	LOAD DESCRIPTION	CCT NO
1	LIGHTING	20A/1P	1.52	2.6			1.08	20A/1P	RECEPTACLES	2
3	LIGHTING	20A/1P	0.59			1.7	1.08	20A/1P	RECEPTACLES	4
5	HAND DRYER	20A/1P	1.80	2.9			1.08	20A/1P	RECEPTACLES	6
7	HAND DRYER	20A/1P	1.80			2.9	1.08	20A/1P	RECEPTACLES	8
9	ILF-1	20A/1P	0.51	1.4			0.90	20A/1P	GFCI RECEPTACLES	10
11	UH-1	20A/2P	1.00			1.7	0.72	20A/1P	GFCI RECEPTACLES	12
13	***	100AF	1.00	4.0			3.03	35A/2P	AHU-1	14
15	UH-2	20A/2P	1.00			4.0	3.03	100AF	***	16
17	***	100AF	1.00	1.4			0.37	20A/1P	WATER COOLER EWC	18
19	WOMENS RM 101 RP-1	20A/1P	1.50			1.7	0.18	20A/1P	WATER HEATER WH-1	20
21	MENSS RM 102 RP-1	20A/1P	1.50	3.4			1.91	20A/2P	EVAP COOLER EC-1	22
23	SPARE	20A/1P				1.9	1.91	100AF	***	24
25	SPARE	20A/1P		0.0				20A/1P	SPARE	26
27	SPACE					0.0			SPACE	28
29	SPACE			0.0					SPACE	30
31	SPACE					0.0			SPACE	32
33	SPACE			0.0					SPACE	34
35	SPACE					0.0			SPACE	36
37	SPACE			0.0					SPACE	38
39	SPACE					0.0			SPACE	40
41	SPACE			0.0					SPACE	42

			NOTE :
15.7	13.9		
KVA	LL VOLTS	AMPS	
29.6	240	123	

Software Engineering LLC Panel_Ex v2.1

ELECTRICAL SYMBOL LEGEND

SYMBOL	DESCRIPTION
	KEYED NOTE SYMBOL - ELECTRICAL.
	MECHANICAL EQUIPMENT DESIGNATION - SEE MECHANICAL EQUIPMENT SCHEDULE.
WP	WEATHERPROOF.
AFF	ABOVE FINISH FLOOR.
A	CEILING FIXTURE AND OUTLET. TYPE AS INDICATED IN FIXTURE SCHEDULE.
B	BRACKET FIXTURE AND OUTLET. TYPE AS INDICATED IN FIXTURE SCHEDULE.
	EMERGENCY FIXTURE WITH BATTERY PACK (SELF-TESTING/SELF-DIAGNOSTICS) AND OUTLET. TYPE "EM" AS INDICATED IN FIXTURE SCHEDULE.
	CEILING MOUNTED DOUBLE FACE EXIT FIXTURE (SELF-TESTING/SELF-DIAGNOSTICS) AND OUTLET WITH DIRECTIONAL ARROWS AS INDICATED. TYPE "EXIT" AS INDICATED IN FIXTURE SCHEDULE.
	CEILING MOUNTED SINGLE FACE EXIT FIXTURE (SELF-TESTING/SELF-DIAGNOSTICS) AND OUTLET WITH DIRECTIONAL ARROWS AS INDICATED. TYPE "EXIT" AS INDICATED IN FIXTURE SCHEDULE.
	WALL BRACKET OR RECESSED EXIT FIXTURE (SELF-TESTING/SELF-DIAGNOSTICS) AND OUTLET WITH DIRECTIONAL ARROWS AS INDICATED. TYPE "EXIT" AS INDICATED IN FIXTURE SCHEDULE.
C	LED FIXTURE AND OUTLET. TYPE AS INDICATED IN FIXTURE SCHEDULE.
$_{a}$	SINGLE POLE WALL SWITCH. FLUSH MOUNTED UP 44" UNLESS OTHERWISE INDICATED. (LOWER CASE LETTER, WHEN USED, DENOTES FIXTURES CONTROLLED).
$_{3a}$	THREE-WAY WALL SWITCH. FLUSH MOUNTED UP 44" UNLESS OTHERWISE INDICATED. (LOWER CASE LETTER, WHEN USED, DENOTES FIXTURES CONTROLLED).
$_{K}$	KEYED WALL SWITCH. FLUSH MOUNTED UP 44" UNLESS OTHERWISE INDICATED.
$_{T}$	THERMAL SWITCH. WEATHERPROOF IF INSTALLED OUTSIDE. FLUSH MOUNTED UP 44" UNLESS OTHERWISE INDICATED.
J	JUNCTION BOX FLUSH IN WALL. HEIGHT AS INDICATED FOR CONNECTION TO EQUIPMENT.
	20 AMP DUPLEX CONVENIENCE RECEPTACLE, UP 18" OR AS INDICATED.
	20 AMP GROUND FAULT INTERRUPTING DUPLEX CONVENIENCE RECEPTACLE, UP 18" OR AS INDICATED.
TR	20 AMP DUPLEX CONVENIENCE RECEPTACLE TAMPER RESISTANT, UP 18" OR AS INDICATED. HUBBELL #HBL8300SGIA OR EQUAL.
WP	20 AMP WEATHERPROOF GROUND FAULT INTERRUPTING DUPLEX CONVENIENCE RECEPTACLE, UP 18" OR AS INDICATED. COVER TO BE CAST ALUMINUM "HUBBELL" #WP26M OR EQUAL.
	20 AMP FOURPLEX CONVENIENCE RECEPTACLE, UP 18" OR AS INDICATED.

ELECTRICAL PROJECT GENERAL NOTES

A. THE CONTRACTOR SHALL FAMILIARIZE THEMSELF WITH THE PROJECT PRIOR TO THE BID OPENING, TO ALLOW THEM TO SUBMIT A COMPLETE BID WITHIN THE SCOPE OF THE DRAWINGS AND SPECIFICATIONS. ANY QUESTIONS ARISING DURING THE BID 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 THE BID PERIOD WITH THE ENGINEER FOR CLARIFICATION PRIOR TO AWARD OF CONTRACT.

B. THE WORK INDICATED ON THE ELECTRICAL SITE PLAN AND THE POWER RISER DIAGRAM IS THE RESULT OF INITIAL CONTACT BY THE DESIGN ENGINEER WITH THE LOCAL ELECTRICAL UTILITY COMPANY. ADDITIONAL WORK MAY BE REQUIRED. THE CONTRACTOR IS RESPONSIBLE TO COORDINATE ALL REQUIREMENTS OF THE ELECTRICAL SERVICE WITH THE LOCAL ELECTRICAL UTILITY COMPANY AND PROVIDE, PRIMARY AND SECONDARY TRENCHING, CONDUITS, CONCRETE ENCASEMENT (WHERE APPLICABLE), PULL BOXES, BACKFILL AND PATCHING. ALL ASSOCIATED WORK REQUIRED FOR INSTALLATION OF THE ELECTRICAL SERVICE AND PRIMARY SYSTEMS BY THE LOCAL ELECTRICAL UTILITY INCLUDING FIELD COORDINATION AND ROUTING WITH THE UTILITY COMPANY IS THAT OF THE ELECTRICAL CONTRACTOR AND SHALL BE INCLUDED IN THE CONTRACTOR'S BID WITHOUT EXCEPTION.

C. IT WILL BE THE CONTRACTOR'S OBLIGATION TO INCLUDE, IN THEIR BID, THE COSTS FOR INSTALLING JUNCTION BOXES, PROVIDING MISCELLANEOUS COVERS, WORK WITH OTHER DISCIPLINES WHERE THE CONTRACT INVOLVES ELECTRICAL POWER OR CONTROL CONNECTIONS, SWITCHES, ETC. ALL OF THIS WORK SHALL BE PART OF THIS CONTRACT.

D. LOCATION OF EQUIPMENT AND OTHER DEVICES SHOWN ON THE PLANS ARE APPROXIMATE AND SHALL BE FIELD VERIFIED.

E. THE CONDUIT RUNS, AS SHOWN ON PLANS, INDICATE APPROXIMATE ROUTING. EXACT LOCATION OF CONDUIT RUNS SHALL BE AS FIELD CONDITIONS DICTATE.

F. CONTRACTOR SHALL INSTALL PULL AND JUNCTION BOXES WHEREVER REQUIRED BY N.E.C. OR JOB CONDITIONS. ALL NEW WIRING SHALL BE TAGGED AT ALL PULL BOXES, JUNCTION BOXES, EQUIPMENT BOXES AND CABINETS WITH APPROVED PLASTIC TAGS. ACTION CRAFT, BRADY OR APPROVED EQUAL.

G. SHOULD CONTRACTOR AT ANY TIME NOTICE THAT THE ACTUAL FIELD CONDITIONS DO NOT CORRESPOND TO THE INFORMATION GIVEN ON THE DRAWINGS, THEN IT WILL BE THEIR RESPONSIBILITY TO NOTIFY THE ENGINEER FOR CLARIFICATION, PRIOR TO COMMENCING SUCH WORK.

H. IT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR TO COORDINATE WITH ALL TRADES FOR THE EXACT LOCATION OF EQUIPMENT AND APPURTENANCES THAT REQUIRE ELECTRICAL CONNECTIONS.

I. REMOVE AND INSTALL CEILING SUPPORTS AND TILES AS REQUIRED FOR THE COMPLETION OF THIS PROJECT. THIS CONTRACTOR SHALL INCLUDE REPLACEMENT OF CEILING TILES DAMAGED IN THE PROCESS OF THIS INSTALLATION WITH NEW MATCHING TILES. THE SAME APPLIES TO DAMAGE DONE TO OTHER KINDS OF CEILINGS.

J. THE CONTRACTOR SHALL REPAIR ANY DAMAGE TO WALLS CEILINGS, ETC. IN A PROFESSIONAL MANNER. SEAL ALL WALL OR CEILING OPENINGS WITH MATCHING MATERIAL. THIS SHALL BE DONE AT NO ADDITIONAL COST TO THE OWNER.

K. CONTRACTOR SHALL MAKE AS-BUILT DRAWINGS DOCUMENTING ANY AND ALL WIRING AND EQUIPMENT CONDITIONS AND CHANGES WHILE COMPLETING THIS CONTRACT. PROVIDE UPDATED TYPEWRITTEN DIRECTORIES FOR ALL PANELS AND LABEL ALL PANELS WITH PLASTIC LAMINATED NAMEPLATES.

L. INSTALL BLANK DEVICE PLATES ON ALL UNUSED JUNCTION BOXES IN FINISHED AREAS.

M. ALL ELECTRICAL WIRING SHALL BE ROUTED IN CONDUIT. WIRING BELOW CEILING SHALL BE CONCEALED IN WALLS. IN CASE OF SOLID WALLS, WIREMOLD #2000 SERIES MUST BE UTILIZED IN FINISHED AREAS.

N. ALL WIREMOLD RUNS ARE TO BE LOCATED AS NEAR AS POSSIBLE, AT THE CORNER OF CEILING, WALL OR MOLDING, ETC. RUNS SHALL BE PARALLEL AND PERPENDICULAR TO BUILDING LINES.

O. WIREMOLD #2000 DOES NOT HAVE A FULL RANGE OF FITTINGS. ALL 500, 700 AND 5700 FITTINGS MAY BE UTILIZED THROUGH USE OF #2089E FITTING.

P. WIREMOLD JUNCTION BOXES TO BE #5740 SERIES (1 OR 2 GANG, DEPTH AS REQUIRED FOR NUMBER OF WIRES USED) WITH BLANK PLATES.

Q. IN ALL LOCATIONS WHERE EXISTING CIRCUITS ARE AFFECTED BY THE REMOVAL OF CONDUIT, WIRING, RECEPTACLES, LIGHTING FIXTURES. THE BLOCKING OUT OF EXISTING OUTLET BOXES, ETC. AND THE CIRCUITS ARE STILL REQUIRED TO FEED OTHER DEVICES OR EQUIPMENT WHICH ARE TO REMAIN AND MAINTAIN CIRCUIT CONTINUITY: THE CONTRACTOR SHALL REFEED THESE DEVICES OR EQUIPMENT WHICH ARE TO REMAIN IN SERVICE AFTER THE COMPLETION OF THE REMODEL AT NO ADDITIONAL COST TO THE OWNER.

R. THE CONTRACTOR SHALL REPLACE ALL DAMAGED AND INOPERABLE DEVICES SUCH AS LIGHT SWITCHES, RECEPTACLES, ETC. AT NO ADDITIONAL COST THE OWNER.

S. REFER TO POWER PLANS FOR DETAILED LAYOUTS OF ELECTRICAL GEAR.

T. AFTER THE CONTRACTOR HAS RECEIVED APPROVED SHOP DRAWINGS FOR THE ELECTRICAL DISTRIBUTION EQUIPMENT, THEY SHALL SUBMIT SCALED LAYOUTS OF ALL ELECTRICAL EQUIPMENT TO THE ENGINEER FOR APPROVAL TO ENSURE THAT ALL CLEARANCE REQUIREMENTS ARE MET. THIS SUBMITTAL SHALL BE PROVIDED WITH SUFFICIENT TIME SO AS NOT TO INTERFERE WITH THE TIMELY EXECUTION OF THE ROUGH-IN WORK THAT WILL BE REQUIRED.

U. THE CONTRACTOR SHALL BE AWARE THAT ALL POWER SYSTEMS ARE OPERABLE AND SHALL REMAIN OPERABLE AT PROJECT COMPLETION. THIS REQUIRES THE CONTRACTOR TO "RING OUT" ALL CIRCUITS IN AREAS OF MODIFICATIONS PRIOR TO ANY WORK IN THESE AREAS AND TO MAINTAIN ALL SUCH BRANCH CIRCUITING AND CONTROLS OPERATIONAL AFTER MODIFICATIONS.

V. INTERRUPTION OF ANY ELECTRICAL SERVICES OR SPECIAL SYSTEMS SHALL BE COORDINATED WITH THE OWNER'S REPRESENTATIVE AT LEAST SEVEN DAYS PRIOR TO THE INTENDED OUTAGE AND SHALL BE REQUESTED IN WRITING.

W. WHEREVER REQUIRED, FURNISH AND INSTALL ON WALL OR CEILING FREESTANDING UNISTRUT CHANNELS. ANGLE IRONS OR ANY OTHER SUPPORT STRUCTURE WITH THREADED ROD HANGERS AS REQUIRED FOR THE SUPPORT OF ELECTRICAL EQUIPMENT OF ANY KIND TO ENSURE PROPER INSTALLATION.

X. ALL NEW WIRING SHALL BE COPPER.

Y. ALL HOME RUN CIRCUITING TO PANELS SHALL BE .75" CONDUIT, MINIMUM.

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5/23/2018

NEW BUILDING FOR:
Sandoval County
Recreation Center Building
at the Fairgrounds
37 Rodeo Road
Cuba, NM 87013

MARK	DATE	DESCRIPTION

GDDA PROJECT NO: 17-113
DATE: 5/23/2018
DRAWN BY: SS
CHECKED BY: CJW
SET NO:
SHEET TITLE: ELECTRICAL LEGEND, NOTES & SCHEDULES

E-001

17068
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RISER KEYED NOTES

1 EXISTING JUNCTION BOX WITH 4 MEDIUM VOLTAGE STUB UP BY UTILITY.

2 TRANSFORMER WITH MOUNTING PAD. CONTRACTOR TO COORDINATE WITH UTILITY COMPANY. LOCATED APPROXIMATELY 100' NORTH OF BUILDING.

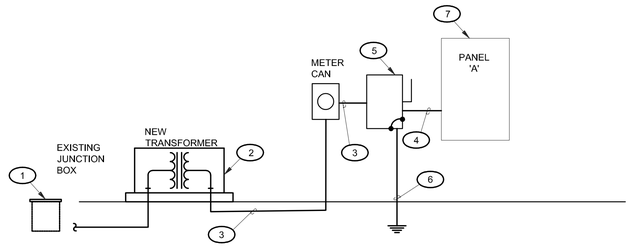
3 PROVIDE 3 #4/0 CU, IN 2" CONDUIT.

4 PROVIDE 3 #4/0 CU, 1 #2 CU GND AND 2" CONDUIT.

5 NEW 400A SERVICE RATED FUSED, NEMA 3R, DISCONNECT WITH 225 AMP FUSES.

6 INSTALL #2 BDS COPPER GROUND ROD. SEE GROUNDING DETAIL ON SHEET E-001.

7 NEW PANEL 225A MLO, PHASE, 4 WIRE SEE PANEL SCHEDULE ON SHEET E001.



RISER DIAGRAM

N.T.S.

Fault Location		Feeder Length	Isc at FX0 or previous fault	L-L Voltage	Parallel Sets	C' value	fa	M value	I_{sc}(A)	Panel AIC Rating
TRANSFORMER	FX0								34,639	
meter	FX1	100	34,639	240	1	15082	0.956963	0.5110	17,700	22,000
disconnect	FX2	5	17700.39	240	1	15082	0.02445	0.9761	17,278	22,000
panel p	FX3	21	17277.94	240	1	15082	0.10024	0.9089	15,704	22,000

SERVICE GROUNDING SYSTEM GENERAL NOTES

A. ALL CONDUCTORS USED FOR THE GROUNDING SYSTEM SHALL BE COPPER.

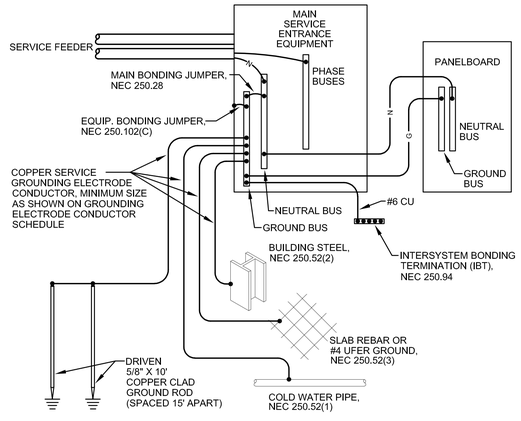
B. CONNECT THE GROUNDING SYSTEM TO THE FOUR FOLLOWING COMPONENTS:
1. BUILDING STEEL.
2. METAL U.G. COLD WATER PIPE.
3. CONCRETE ENCASED REBAR OR #4 COPPER UFER.
4. 10' GROUND RODS.

C. ANY SPLICING SHALL BE VIA CAD-WELD TYPE PROCESS.

D. THE GROUNDING SYSTEM SHALL COMPLY WITH ALL REQUIREMENTS OF ARTICLE 250 OF THE 2014 NEC, AND SHALL PROVIDE 25 OHMS OR LESS RESISTANCE TO GROUND. PROVIDE TEST REPORT VERIFYING RESISTANCE LEVEL IS IN COMPLIANCE WITH 25 OHM MAXIMUM.

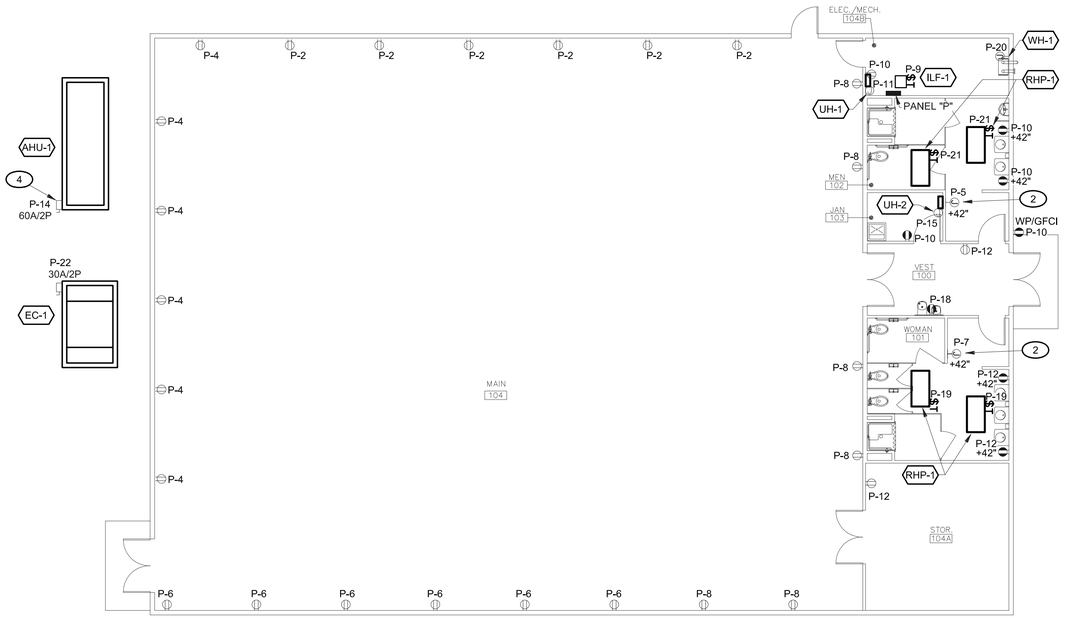
GROUNDING ELECTRODE CONDUCTOR SCHEDULE

SERVICE AMPACITY	EQUIV. CU WIRE SIZE	MAIN BONDING JUMPER	EQUIPMENT BONDING JUMPER	METALLIC PIPE CONDUCTOR	BUILDING STEEL CONDUCTOR	REBAR OR UFER CONDUCTOR	CONDUCTOR
100A	#2	#8	#8	#8	#8	#8	
150A	#1/0	#6	#6	#6	#6	#6	
200A	#3/0	#4	#4	#4	#4	#4	
225A	#4/0	#2	#2	#2	#2	#2	
400A	500	#1/0	#1/0	#1/0	#1/0	#1/0	



SERVICE GROUNDING SYSTEM DIAGRAM

SCALE: NONE



E1 POWER PLAN - GROUND LEVEL

1/8"=1'-0"

NORTH

GENERAL NOTES

A. SEE SHEET E001 FOR ADDITIONAL GENERAL NOTES.

B. COORDINATE EXACT LOCATION OF LIGHTING FIXTURES WITH ARCHITECTURAL REFLECTED CEILING PLAN (RCP).

C. ALL BRANCH CIRCUIT WIRING SHALL BE COPPER, #12 AWG MINIMUM.

D. ALL BRANCH CIRCUITS THAT ARE 20A/1P, SHALL BE SUPPLIED BY THE FOLLOWING CONDUCTORS:

FOR BRANCH CIRCUIT ONE-WAY DISTANCES UP TO 65 FT: 2#12 CU, 1#12 GND, 3/4" EMT CONDUIT.

FOR BRANCH CIRCUIT ONE-WAY DISTANCES FROM 66 FT TO 105 FT: 2#10 CU, 1#10 GND, 3/4" EMT CONDUIT.

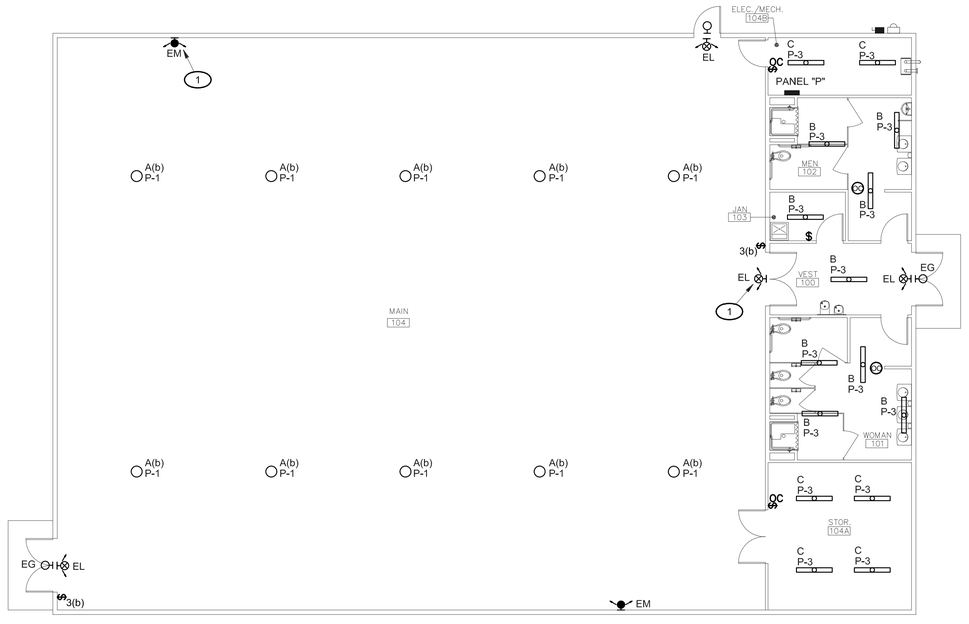
FOR BRANCH CIRCUIT ONE-WAY DISTANCES FROM 106 FT TO 160 FT: 2#8 CU, 1#8 GND, 3/4" EMT CONDUIT.

E. VERIFY HEIGHTS OF EXTERIOR WALL MOUNTED LIGHTING FIXTURES WITH ARCHITECT PRIOR TO ROUGH-IN.

F. REFER TO SHEET E001 FOR LIGHT FIXTURE SCHEDULE.

KEYED NOTES

1. EXIT AND EMERGENCY LIGHTING FIXTURES. REFER TO LIGHTING SCHEDULE. CONNECT TO UNSWITCHED 120V LIGHTING CIRCUIT SERVING THIS ROOM.
2. JUNCTION BOX FOR CONNECTION TO HAND DRYERS. COORDINATE EXACT LOCATION AND CONNECTION REQUIREMENTS EQUIPMENT SUPPLIED.
3. JUNCTION BOX FOR CONNECTION TO HOT WATER HEATER. COORDINATE EXACT LOCATION AND CONNECTION REQUIREMENTS EQUIPMENT SUPPLIED.
4. ROUTE 2 #8 AND A #10 GROUND IN A 1" CONDUIT. EXTEND FROM DISCONNECT TO CIRCUIT INDICATED.



A1 LIGHTING PLAN - GROUND LEVEL

1/8"=1'-0"

NORTH

G. DONALD DUDLEY AIA
ARCHITECT
SIMMS TOWER STUDIO 850
400 GOLD AVENUE SW
ALBUQUERQUE, NEW MEXICO
87102
TEL 505.243.8100
ARCHITECTURE - INTERIORS - PLANNING
AIA - NCARB - LEED AP

CHRISTOPHER J. WILLIAMS NEW MEXICO 24084 PROFESSIONAL ENGINEER 5/23/2018

NEW BUILDING FOR: Sandoval County Recreation Center Building at the Fairgrounds
37 Rodeo Road Cuba, NM 87013

MARK	DATE	DESCRIPTION

GDDA PROJECT NO: 17-113
DATE: 5/23/2018
DRAWN BY: SS
CHECKED BY: CJW
SET NO:
SHEET TITLE: ELECTRICAL FLOOR PLANS & DIAGRAMS

E-101

17068
TESTUDO ENGINEERING
4015 Carlisle Blvd NE Suite E
Albuquerque, NM 87107
WWW.TESTUDOENG.COM, PH 505-554-1282