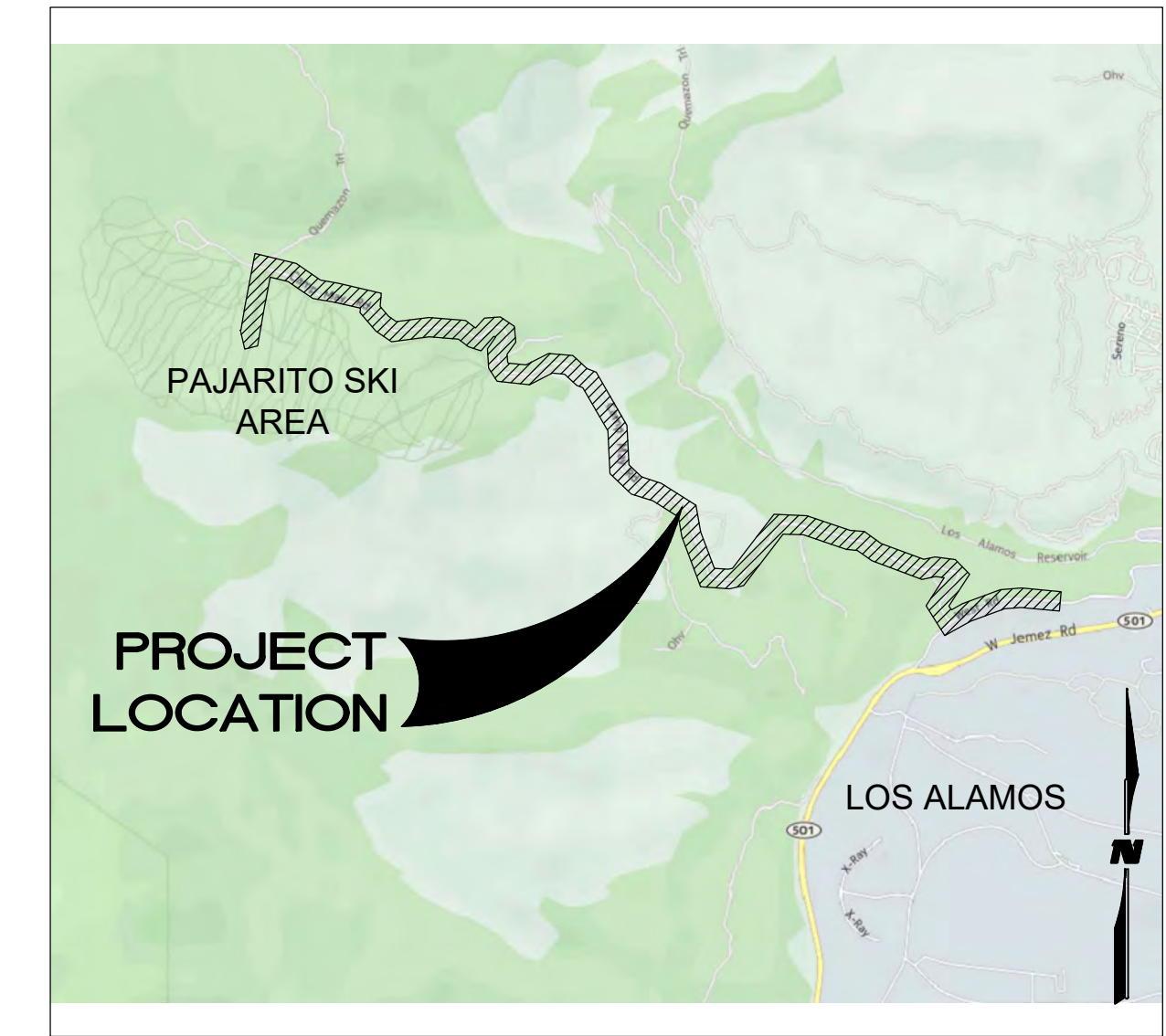


LOCATION MAP  
NOT TO SCALE

PROJECT  
LOCATION

# CONSTRUCTION PLANS FOR LOS ALAMOS COUNTY LAC JEMEZ MOUNTAIN REGIONAL FIRE PROTECTION SYSTEM PHASE III



VICINITY MAP  
NOT TO SCALE

## DRAWING INDEX

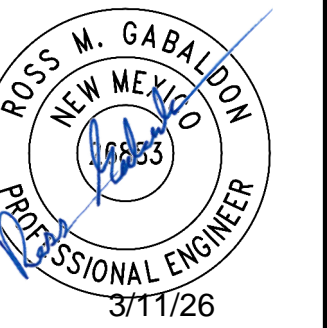
SHEET INDEX	
SHEET NUMBER	SHEET TITLE
GENERAL	
G-001	COVER SHEET
G-002	GENERAL NOTES
G-003	GENERAL NOTES AND ABBREVIATIONS
G-004	QUANTITIES
G-005	PROJECT CONTROL AND SURVEY PLAN
G-006	HYDRAULIC PROFILE
G-007	OVERALL FIBER PLAN
CIVIL	
C-001	BOOSTER 1 SITE GRADING AND PIPING
C-002	BOOSTER 2 AND 3 SITE GRADING AND PIPING PLAN
C-003	BOOSTER 4 SITE GRADING AND PIPING PLAN
C-004	SKI AREA WATER AND FO SERVICE MAP
C-005	TANK SITE WATER AND FO CONNECTION PLAN
C-501	MISCELLANEOUS DETAILS
C-502	MISCELLANEOUS DETAILS
C-503	MISCELLANEOUS DETAILS
C-504	MISCELLANEOUS DETAILS
C-505	CHLORINE EQUIPMENT DETAILS
STRUCTURAL	
S-001	STRUCTURAL GENERAL NOTES
S-002	TYPICAL CONCRETE NOTES AND DETAILS
S-003	MASONRY NOTES
S-004	TYPICAL WOOD NOTES AND DETAILS
S-101	FOUNDATION & ROOF FRAMING PLAN

SHEET INDEX	
SHEET NUMBER	SHEET TITLE
S-501	FOUNDATION AND ROOF FRAMING DETAILS
ARCHITECTURAL	
A-101	FLOOR PLAN AND ELEVATIONS
A-201	EXTERIOR ELEVATIONS
A-501	DETAILS
PROCESS	
D-001	PROCESS FLOW DIAGRAM - BPS 1
D-002	PROCESS FLOW DIAGRAM - BPS 2
D-003	PROCESS FLOW DIAGRAM - BPS 3
D-004	PROCESS FLOW DIAGRAM - BPS 4
D-005	PROCESS FLOW DIAGRAM UPPER TANK SITE
D-101	BOOSTER STATION 1 PLAN AND DETAILS
D-102	BOOSTER STATION 2, 3, AND 4 PLAN AND DETAILS
D-201	BOOSTER STATION 1 ISOMETRIC VIEW
D-202	BOOSTER STATION 2, 3, AND 4 ISOMETRIC
ELECTRICAL	
E-001	ELECTRICAL GENERAL INFORMATION
E-101	ELECTRICAL PLANS TYP PUMP STATION
E-102	ELECTRICAL SITE PLAN UPPER RESERVOIR
E-501	ELECTRICAL DIAGRAMS AND DETAILS
E-601	ELECTRICAL SCHEDULES
E-701	ELECTRICAL INSTRUMENTATION
E-702	ELECTRICAL INSTRUMENTATION SCHEDULES
E-703	ELECTRICAL INSTRUMENTATION SCHEDULES
E-711	ELECTRICAL INSTRUMENTATION SCP1

SHEET INDEX	
SHEET NUMBER	SHEET TITLE
E-712	ELECTRICAL INSTRUMENTATION SCP2 SCP3 SCP4
E-713	ELECTRICAL INSTRUMENTATION SCP5
E-751	ELECTRICAL INSTRUMENTATION DETAILS
E-761	ELECTRICAL INSTRUMENTATION SCHEDULES

**WILSON & COMPANY**  
2600 THE AMERICAN RD. SE SUITE 100  
RIO RANCHO, NM 87124  
PHONE: 505-898-8021  
FAX: 505-898-8501  
www.wilsonco.com

CONSULTANTS



SEAL

LAC JEMEZ MOUNTAIN  
REGIONAL FIRE  
PROTECTION SYSTEM  
PHASE 3

PROJECT NAME

REV.	DATE	DESCRIPTION	BY

PROJECT NO: 22-600-894-03  
DESIGNED BY: RMG  
DRAWN BY: STAFF  
CHECKED BY: RMG  
DATE: MARCH 2026

SHEET TITLE  
**COVER SHEET**

SHEET NO:  
**G-001**

NOTICE OF EXTENDED PAYMENT PROVISION:  
THIS CONTRACT ALLOWS THE OWNER TO MAKE  
PAYMENT WITHIN 45 DAYS AFTER SUBMISSION  
OF AN UNDISPUTED REQUEST FOR PAYMENT.  
(SECTION 57-28-5 B (2) NMSA 1978).

M:\MSD\20-600-894-03\2\_Disciplines\_SHEETS\8\_sheets - utilities\_PHASE III\01\_GEN\268943\_G-001.dwg

3/12/2026

3/11/2026 M:\MSD\20-600-894-032\_Disciplines\_SHEETS8\_sheets - utilities\_PHASE III\01\_GEN\268943\_G-002.dwg

GENERAL NOTES

- 1. ALL CONSTRUCTION SHALL BE PERFORMED IN ACCORDANCE WITH 1) THE PROJECT CONSTRUCTION PLANS, 2) THE PROJECT SPECIFICATIONS, 3) THE LATEST EDITION OF THE COUNTY OF LOS ALAMOS STANDARD DETAILS, AND 4) THE "NEW MEXICO STANDARD SPECIFICATIONS FOR PUBLIC WORKS CONSTRUCTION" AND DETAILS, AS PREPARED BY THE NEW MEXICO CHAPTER, AMERICAN PUBLIC WORKS ASSOCIATION, LATEST EDITION, IN THAT ORDER OF PRECEDENCE AT THE TIME OF CONSTRUCTION BID.
2. THE CONTRACTOR AND DEVELOPER AGREE THAT THEY SHALL ASSUME THE SOLE AND COMPLETE RESPONSIBILITY FOR THE JOB SITE CONDITIONS DURING THE COURSE OF CONSTRUCTION OF THE PROJECT, INCLUDING SAFETY OF ALL PERSONS AND PROPERTY, THAT THIS REQUIREMENT SHALL APPLY CONTINUOUSLY AND NOT BE LIMITED TO NORMAL WORKING HOURS, AND THE CONTRACTOR SHALL DEFEND, INDEMNIFY AND HOLD THE OWNER AND ENGINEER HARMLESS FROM ANY AND ALL LIABILITY, REAL OR ALLEGED, IN CONNECTION WITH THE PERFORMANCE OF WORK ON THIS PROJECT, EXCEPTING FOR LIABILITY ARISING FROM THE SOLE NEGLIGENCE OF THE OWNER OR ENGINEER.
3. NO MODIFICATIONS TO THESE PLANS SHALL BE MADE WITHOUT THE WRITTEN CONSENT OF THE OWNER, ENGINEER AND ALL APPROVAL SIGNATORIES. THE ENGINEER SHALL NOT BE RESPONSIBLE FOR CONSTRUCTION METHODS OR TECHNIQUES OR FOR THE PROSECUTION OF THE WORK AS SHOWN ON THESE PLANS. THE ENGINEER SHALL NOT BE HELD RESPONSIBLE FOR THE ACTS OR OMISSIONS OF THE CONTRACTOR, SUBCONTRACTORS OR OTHER PERSONS PERFORMING ANY WORK, AS SHOWN IN THE PROJECT CONTRACT DOCUMENTS.
4. UNLESS OTHERWISE PROVIDED AS PART OF THE CONSTRUCTION PLANS, A COMPLETE TRAFFIC CONTROL PLAN SHALL BE PREPARED BY THE CONTRACTOR WHEN ANY PORTION OF THE WORK IS IN THE PUBLIC RIGHT-OF-WAY. ALL CONSTRUCTION SIGNING, BARRICADING AND CHANNELIZATION SHALL CONFORM TO THE "MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES FOR STREETS AND HIGHWAYS" (MUTCD), LATEST EDITION. THE PLAN SHALL BE SUBMITTED TO THE COUNTY OF LOS ALAMOS DEPARTMENT OF PUBLIC WORKS CONSTRUCTION MANAGER FOR APPROVAL AT LEAST 7 DAYS PRIOR TO THE DESIRED START OF CONSTRUCTION. THE CONTRACTOR SHALL NOT IMPLEMENT THE TRAFFIC CONTROL PLAN UNTIL APPROVAL OF THE PLAN HAS BEEN RECEIVED.
5. THE CONTRACTOR SHALL DESIGNATE AT LEAST ONE EMERGENCY CONTACT PERSON, AND SHALL PROVIDE TELEPHONE NUMBERS WHERE THIS PERSON CAN BE CONTACTED AT ANY TIME. THIS INFORMATION SHALL BE PROVIDED TO THE OWNER, THE ENGINEER, THE COUNTY OF LOS ALAMOS DEPARTMENT OF PUBLIC SAFETY (505-662-8222) AND THE COUNTY OF LOS ALAMOS DEPARTMENT OF PUBLIC WORKS (505-662-8273).
6. THE CONTRACTOR IS RESPONSIBLE FOR OBTAINING ALL NECESSARY PERMITS FROM ALL JURISDICTIONAL AUTHORITIES PRIOR TO START OF CONSTRUCTION.
7. ALL WORK ON THIS PROJECT SHALL BE PERFORMED IN ACCORDANCE WITH APPLICABLE FEDERAL, STATE AND LOCAL LAWS, RULES AND REGULATIONS CONCERNING CONSTRUCTION SAFETY, HEALTH, AND ENVIRONMENTAL PROTECTION.
8. EXISTING SITE IMPROVEMENTS WHICH ARE DAMAGED OR DISPLACED BY THE CONTRACTOR SHALL BE REMOVED AND REPLACED BY THE CONTRACTOR AT THE CONTRACTOR'S OWN EXPENSE. THE WORK SHALL BE APPROVED BY THE OWNER PRIOR TO CONSTRUCTION OF THE REPAIRS. REPAIRS MUST BE ACCEPTED BY THE OWNER PRIOR TO FINAL PAYMENT.
9. THE CONTRACTOR SHALL ONLY UTILIZE THE DESIGNATED STAGING AREAS FOR STORAGE OF ALL EQUIPMENT AND MATERIALS. THE OWNER ASSUMES NO RESPONSIBILITY OR LIABILITY FOR CONTRACTOR'S EQUIPMENT AND MATERIAL IN THE STAGING AREA. SECURITY SHALL BE THE SOLE RESPONSIBILITY OF THE CONTRACTOR. IF NO STAGING AREA IS DESIGNATED ON THESE PLANS, AN OFF-SITE STAGING AREA SHALL BE PROVIDED BY THE CONTRACTOR AT THE CONTRACTOR'S EXPENSE, OR THE CONTRACTOR MAY NEGOTIATE WITH THE OWNER TO USE AN ON-SITE AREA.
10. UNLESS OTHERWISE NOTED, ALL ROADWAY STATIONING IS ALONG THE CENTERLINE OF THE ROADWAY RIGHT-OF-WAY.
11. UNLESS OTHERWISE NOTED, STATIONING OF CHANNELS AND/OR PIPES IN DRAINAGE EASEMENTS IS ALONG THE CENTERLINE OF THE CHANNEL/PIPE.
12. THE CONTRACTOR SHALL BE RESPONSIBLE FOR DETERMINING, IN ADVANCE OF HIS/HER CONSTRUCTION OPERATIONS, IF OVERHEAD UTILITY LINES, SUPPORT STRUCTURES, POLES, GUYS, ETC., ARE AN OBSTRUCTION TO CONSTRUCTION OPERATIONS. IF ANY OBSTRUCTION IS EVIDENT, THE CONTRACTOR SHALL BE RESPONSIBLE FOR COORDINATING WITH THE APPROPRIATE UTILITY OWNER TO REMOVE OR SUPPORT THE UTILITY OBSTRUCTION. ANY COSTS ASSOCIATED WITH THIS EFFORT SHALL BE THE SOLE RESPONSIBILITY OF THE CONTRACTOR.
13. FACILITIES WHICH ARE NOT SPECIFICALLY LOCATED WITH ACTUAL VERTICAL AND HORIZONTAL CONTROLS ON THE CONSTRUCTION DOCUMENTS, ARE SHOWN APPROXIMATE AND IN ACCORDANCE WITH THE BEST AVAILABLE INFORMATION PROVIDED BY VARIOUS OWNERS OF THE FACILITIES, AND SUPPLEMENTED BY VISUAL SURFACE INFORMATION WHERE APPROPRIATE. ACCURACY, LOCATION, AND COMPLETENESS OF THIS INFORMATION IS THE SOLE RESPONSIBILITY OF THE CONTRACTOR AND SHOULD BE VERIFIED, BY ANY MEANS NECESSARY, PRIOR TO THE INITIATION OF CONSTRUCTION. SHOULD A CONFLICT EXIST, THE CONTRACTOR SHALL NOTIFY THE OWNER AND ENGINEER.
14. IT IS MANDATORY THAT A PRE-CONSTRUCTION MEETING BE HELD PRIOR TO COMMENCING CONSTRUCTION. THE CONTRACTOR IS RESPONSIBLE FOR CONTACTING THE COUNTY OF LOS ALAMOS DEPARTMENT OF PUBLIC WORKS (505-662-8273) TO DETERMINE THE TIME AND LOCATION OF THE PRE-CONSTRUCTION MEETING.
15. AT THE PRE-CONSTRUCTION MEETING, THE CONTRACTOR SHALL SUBMIT A DETAILED CONSTRUCTION SCHEDULE TO THE COUNTY OF LOS ALAMOS DEPARTMENT OF PUBLIC WORKS AND THE COUNTY DEPARTMENT OF UTILITIES.
16. ANY WORK PERFORMED WITHOUT THE APPROVAL OF THE COUNTY OF LOS ALAMOS AND/OR ALL WORK AND MATERIALS NOT IN CONFORMANCE WITH THE SPECIFICATIONS IS SUBJECT TO REMOVAL AND REPLACEMENT AT THE CONTRACTOR'S EXPENSE.
17. THE CONTRACTOR SHALL PROVIDE ADEQUATE MEANS FOR CLEANING TRUCKS AND/OR OTHER EQUIPMENT OF MUD PRIOR TO ENTERING PUBLIC STREETS. IT IS THE CONTRACTOR'S RESPONSIBILITY TO CLEAN STREETS AND TAKE WHATEVER MEASURES ARE NECESSARY TO ENSURE THAT ALL ROADS ARE MAINTAINED IN A CLEAN, MUD AND DUST-FREE CONDITION AT ALL TIMES.
18. THE CONTRACTOR SHALL CONTACT NEW MEXICO ONE CALL (1-800-321-2537), FIVE (5) WORKING DAYS PRIOR TO CONSTRUCTION FOR UTILITY SPOTS IN ACCORDANCE WITH APPLICABLE STATE LAW.
19. CONTRACTOR WILL NOTIFY THE COUNTY OF LOS ALAMOS'S CONSTRUCTION MANAGER (505-662-8273) A MINIMUM OF TWO (2) WORKING DAYS PRIOR TO COMMENCEMENT OF WORK.

GENERAL NOTES (CONTINUED)

- 20. THE CONTRACTOR SHALL CONFINE HIS WORK TO WITHIN THE CONSTRUCTION LIMITS AND/OR PUBLIC RIGHTS-OF-WAY TO PRESERVE EXISTING VEGETATION, LANDSCAPING, AND PRIVATE PROPERTY. APPROVAL OF THESE PLANS DOES NOT GIVE OR IMPLY ANY PERMISSION TO TRESPASS OR WORK ON PRIVATE PROPERTY. PERMISSION MUST BE GRANTED IN WRITING BY THE OWNER OF THAT PROPERTY.
21. IT IS THE SOLE RESPONSIBILITY OF THE CONTRACTOR TO KEEP THE JOB SITE FREE FROM TRASH ON A DAILY BASIS, AND ALL MATERIALS WILL BE NEATLY ORGANIZED. TRASH AND/OR NON-USED MATERIALS SHALL NOT BE BURIED ON-SITE.
22. THE CONTRACTOR SHALL PARK EQUIPMENT AND VEHICLES SO AS NOT TO INTERFERE WITH NORMAL ACTIVITIES OF RESIDENTS OR OTHER CONTRACTORS ON SITE.
23. THE CONTRACTOR SHALL PROVIDE CONSTRUCTION STAKING UTILIZING APPROVED CONSTRUCTION PLANS, THE APPROPRIATE RIGHT-OF-WAY MAPS, RECORDED PLATS, AND COUNTY OF LOS ALAMOS STANDARD DETAILS. EACH REVISION TO THE PLANS SHALL BE RECORDED IN THE PLAN REVISION BLOCK. PLANS SHALL INCLUDE LOCATION MAP WITH LEGAL DESCRIPTION AND LOCATION GRID.
24. THE CONTRACTOR SHALL MAINTAIN AN UP-TO-DATE SET OF AS-BUILT PLANS FOR THE PROJECT. THE FINAL AS-BUILT PLANS, REFLECTING ANY AND ALL CHANGES TO THE ORIGINAL PLAN, SHALL BE SUBMITTED TO THE ENGINEER FOR FINAL AS-BUILT SUBMITTAL TO THE OWNER.
25. THE CONTRACTOR SHALL ENSURE THAT ALL CONSTRUCTION ACTIVITIES, PERMITTING, AND SUBMITTALS ARE IN ACCORDANCE WITH THE COUNTY OF LOS ALAMOS DEVELOPMENT PROCESS MANUAL (DPM) AND ORDINANCES.
26. NO WORK SHALL BE PERFORMED IN A FLOODPLAIN WITHOUT WRITTEN AUTHORIZATION FROM THE COUNTY OF LOS ALAMOS FLOODPLAIN MANAGER.
27. ANY WORK PERFORMED IN A DRAINAGEWAY, CHANNEL, ARROYO, OR FLOODPLAIN MUST BE PROTECTED BY MEANS OF TEMPORARY PONDING OR DIVERSION OF STORM FLOWS UNTIL SUCH WORK HAS BEEN ACCEPTED BY THE CITY.
28. THE CONTRACTOR IS RESPONSIBLE FOR THE TESTING OF THE WATERLINE PRIOR TO ACCEPTANCE BY THE COUNTY. TESTING SHALL BE PERFORMED TO DEMONSTRATE THE FUNCTIONALITY OF THE SYSTEM. THE COST OF THE TESTING SHALL BE INCIDENTAL TO THE CONTRACT.

SOILS GENERAL NOTES

- 1. UNLESS OTHERWISE SPECIFIED SUBGRADE SOILS AND STRUCTURAL FILL MATERIALS SHALL BE COMPACTED TO THE FOLLOWING PERCENTAGES OF THE ASTM D-1557 MAXIMUM DENSITY.

Table with 2 columns: MATERIALS and PERCENT (%) COMPACTION. Rows include: STRUCTURAL FILL IN THE BUILDING AND TANK AREAS (95), SUB BASE FOR SLAB SUPPORT (95), MISCELLANEOUS BACKFILL BELOW STRUCTURAL FILL OR ROAD (95), MISCELLANEOUS BACKFILL BELOW UNPAVED, NON-BUILDING AREAS (90), ROAD SUB GRADE (95), SIDEWALK SUB GRADE (95), CURB AND GUTTER SUBGRADE (95).

EROSION CONTROL/ENVIRONMENTAL PROTECTION/STORM WATER POLLUTION PREVENTION PLAN

- 1. THE CONTRACTOR SHALL BE RESPONSIBLE FOR FULFILLING ALL NECESSARY NATIONAL POLLUTANT DISCHARGE ELIMINATION SYSTEM (NPDES) REQUIREMENTS INCLUDING, BUT NOT LIMITED TO, OBTAINING AN NPDES PERMIT PRIOR TO CONSTRUCTION, FILLING OUT THE NOTICE OF INTENT (NOI) APPLICATION, AND FILLING OUT THE NOTICE OF TERMINATION (NOT) APPLICATION. THE CONTRACTOR SHALL ALSO BE RESPONSIBLE FOR THE IMPLEMENTATION OF AND INSPECTION REPORTS FOR THE STORM WATER POLLUTION PREVENTION PLAN (SWPPP). THE CONTRACTOR SHALL SUBMIT THE SWPPP WITH THE PROPOSED CONSTRUCTION STAGING AREA AND TEMPORARY SANITARY FACILITIES CLEARLY SHOWN. ANY CHECK DAMS, SILT FENCES, OR OTHER BEST MANAGEMENT PRACTICES (BMPs) THAT ARE REQUIRED IN THE APPROVED SWPPP SHALL BE INCLUDED IN AND ARE INCIDENTAL TO THE SWPPP BID AMOUNT.
2. THE CONTRACTOR SHALL MAINTAIN A COPY OF THE APPROVED SWPPP ON-SITE AT ALL TIMES, AND SHALL COMPLY WITH THE REQUIREMENTS INDICATED ON THAT PLAN.
3. THE CONTRACTOR SHALL CONFORM TO ALL CITY, COUNTY, STATE AND FEDERAL DUST AND EROSION CONTROL REGULATIONS. THE CONTRACTOR SHALL PREPARE AND OBTAIN ANY NECESSARY DUST OR EROSION CONTROL PERMITS FROM THE REGULATORY AGENCIES.
4. THE CONTRACTOR SHALL EITHER PROMPTLY REMOVE ANY MATERIAL EXCAVATED WITHIN THE PUBLIC RIGHT-OF-WAY OR INSTALL BMPs IDENTIFIED IN THE APPROVED SWPPP TO PREVENT DISCHARGE OF EXCAVATED MATERIAL WITHIN THE PUBLIC RIGHT-OF-WAY DURING A RAIN OR WIND EVENT.
5. THE CONTRACTOR SHALL IMPLEMENT THE APPROVED SWPPP AND ENSURE THAT NO SOIL ERODES FROM THE SITE INTO PUBLIC RIGHT-OF-WAY OR ONTO PRIVATE PROPERTY.
6. THE CONTRACTOR SHALL MITIGATE EROSION OF TEMPORARY OR PERMANENT DIRT SWALES BY INSTALLING BMPs IDENTIFIED IN THE APPROVED SWPPP IN THE SWALES PERPENDICULAR TO THE DIRECTION OF FLOW, AND AT INTERVALS AS SPECIFIED IN THE SWPPP.
7. CONSTRUCTION AREAS SHALL BE WATERED FOR DUST CONTROL IN COMPLIANCE WITH GOVERNMENT ORDINANCES. THE CONTRACTOR SHALL BE RESPONSIBLE FOR LOCATING AND SUPPLYING WATER AS REQUIRED. WATERING, AS REQUIRED FOR CONSTRUCTION AND DUST CONTROL, SHALL BE CONSIDERED INCIDENTAL TO CONSTRUCTION AND NO MEASUREMENT OR PAYMENT SHALL BE MADE THEREFOR.
8. ANY AREAS DISTURBED BY CONSTRUCTION AND NOT COVERED BY LANDSCAPING OR AN IMPERVIOUS SURFACE SHALL BE REVEGETATED WITH NATIVE GRASS SEEDING. WHEN CONSTRUCTION ACTIVITIES CEASE AND EARTH DISTURBING ACTIVITIES WILL NOT RESUME WITHIN 14 DAYS, STABILIZATION MEASURES MUST BE INITIATED, UNLESS INDICATED OTHERWISE ON THESE PLANS OR ON THE LANDSCAPING PLAN. NATIVE GRASS SEEDING SHALL BE CLASS A SEEDING PER SECTION 1012 OF THE NEW MEXICO STANDARD SPECIFICATIONS FOR PUBLIC WORKS CONSTRUCTION, APWA NM CHARTER, LATEST EDITION.
9. ALL WASTE PRODUCTS FROM THE CONSTRUCTION SITE, INCLUDING ITEMS DESIGNATED FOR REMOVAL, CONSTRUCTION WASTE, CONSTRUCTION EQUIPMENT WASTE PRODUCTS (OIL, GAS, TIRES, ETC.) GARBAGE, GRUBBING, EXCESS CUT MATERIAL, VEGETATIVE DEBRIS, ETC. SHALL BE APPROPRIATELY DISPOSED OF OFF-SITE AT NO ADDITIONAL COST TO THE OWNER. IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO OBTAIN PERMITS REQUIRED TO HAUL OR DISPOSE OF WASTE PRODUCTS. IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO ENSURE THAT THE WASTE DISPOSAL SITE COMPLIES WITH GOVERNMENT REGULATIONS REGARDING THE ENVIRONMENT, ENDANGERED SPECIES, AND ARCHAEOLOGICAL RESOURCES.
10. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE CLEANUP AND REPORTING OF SPILLS OF HAZARDOUS MATERIALS ASSOCIATED WITH THE CONSTRUCTION SITE. HAZARDOUS MATERIALS INCLUDE GASOLINE, DIESEL FUEL, MOTOR OIL, SOLVENTS, CHEMICALS, PAINTS, ETC. WHICH MAY BE A THREAT TO THE ENVIRONMENT. THE CONTRACTOR SHALL REPORT THE DISCOVERY OF PAST OR PRESENT SPILLS TO THE NEW MEXICO ENVIRONMENT DEPARTMENT EMERGENCY RESPONSE TEAM AT 505-827-9329.
11. THE CONTRACTOR SHALL COMPLY WITH ALL APPLICABLE REGULATIONS CONCERNING SURFACE AND UNDERGROUND WATER. CONTACT WITH SURFACE WATER BY CONSTRUCTION EQUIPMENT AND PERSONNEL SHALL BE MINIMIZED. EQUIPMENT MAINTENANCE AND REFUELING OPERATIONS SHALL BE PERFORMED IN AN ENVIRONMENTALLY SAFE MANNER IN COMPLIANCE WITH GOVERNMENT REGULATIONS.
12. THE CONTRACTOR SHALL COMPLY WITH ALL APPLICABLE REGULATIONS CONCERNING CONSTRUCTION NOISE AND HOURS OF OPERATION.
13. WHERE STORM INLETS ARE SUSCEPTIBLE TO INFLOW OF SILT OR DEBRIS FROM CONSTRUCTION ACTIVITIES, PROTECTION SHALL BE PROVIDED ON THEIR UPSTREAM SIDE UTILIZING BMPs IDENTIFIED IN THE APPROVED SWPPP.

WATER AND WASTEWATER GENERAL NOTES

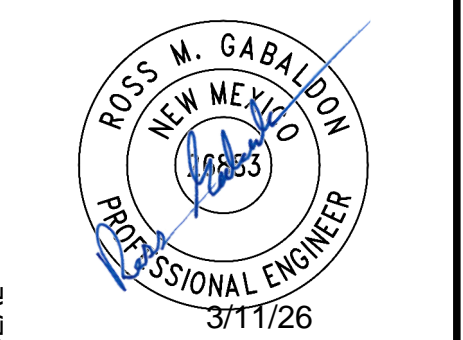
- 1. WATER/SEWER LINES SHALL BE PLACED IN SEPARATE TRENCHES A DISTANCE OF A MINIMUM OF 10 FEET APART HORIZONTALLY FROM EDGE OF PIPE. THE WATER LINE SHALL BE PLACED A MINIMUM OF 1.5 FEET HIGHER IN CLEARANCE BETWEEN PIPE THAN THE SEWER. AT ALL CROSSINGS OF WATER AND SEWER LINES, THE WATER LINE SHALL BE A MINIMUM OF 1.5 HIGHER THAN THE SEWER OR THE SEWER LINE SHALL BE C-900 PRESSURIZED PIPE.
2. ALL MAIN LINE UTILITIES MUST HAVE COLOR CODED TRACER WIRE.
3. FOR PRESSURE WATER CONNECTIONS TO EXISTING LINES, THE CONTRACTOR SHALL BE RESPONSIBLE TO HAVE RECEIVED AN APPROVED PENETRATION PERMIT FROM THE DEPARTMENT OF PUBLIC UTILITIES.
4. VALVE BOXES SHALL BE BROUGHT TO SURFACE ELEVATION UPON COMPLETION OF SURFACE COURSE OF PAVEMENT. SQUARE CONCRETE COLLARS SHALL BE CONSTRUCTED TO SURFACE ELEVATIONS.
5. FLUSHING OF WATER LINES SHALL BE METERED AND REPORTED TO THE DEPARTMENT OF PUBLIC UTILITIES CONSTRUCTION MANAGER ON A BIWEEKLY BASIS. PREFERENCE FOR DISPOSAL IS (1) ON AVAILABLE LAND SURFACE OR (2) IN STORM SEWERS. DISPOSAL METHOD SHALL BE DISCUSSED WITH INSPECTOR.
6. FLUSHING, DISINFECTION AND TESTING OF WATERLINES SHALL BE COORDINATED WITH THE COUNTY OF LOS ALAMOS UTILITY INSPECTOR.
7. ALL DRESSER-TYPE COUPLINGS FOR WATER LINES SHALL BE STAINLESS STEEL, WITH STAINLESS STEEL BOLTS.
8. ALL MEGALUG-TYPE JOINTS FOR WATER LINE SHALL BE CONNECTED WITH STAINLESS STEEL BOLTS.
9. ALL FLANGE TO FLANGE CONNECTIONS FOR WATER LINE, IF UNDERGROUND, SHALL BE CONNECTED WITH STAINLESS STEEL BOLTS.

WATER AND WASTEWATER GENERAL NOTES (CONTINUED)

- 10. CONSTRUCTION SHALL BE DONE IN ACCORDANCE WITH THE COUNTY OF LOS ALAMOS CONSTRUCTION STANDARDS AND THESE PLANS.
11. IT WILL BE THE CONTRACTOR'S SOLE RESPONSIBILITY TO PROTECT AND MAINTAIN IN SERVICE ALL EXISTING UTILITIES. THE CONTRACTOR SHALL ADEQUATELY SUPPORT AND PROTECT EXISTING UTILITIES AFFECTED BY THE CONTRACTOR'S TRENCHING ACTIVITY. IN THE EVENT THAT EXISTING UTILITIES ARE DAMAGED BY THE CONTRACTOR'S OPERATIONS, THE CONTRACTOR SHALL ARRANGE FOR AND COORDINATE PROMPT REPAIR BY THE RESPECTIVE UTILITY AND SHALL BEAR THE COST OF REPAIRS.
12. THE COUNTY AND ENGINEER OF LOS ALAMOS SHALL APPROVE MATERIAL SUBMITTALS PRIOR TO CONSTRUCTION.
13. PRIOR TO THE WATER/SEWER LINE INSTALLATION, THE FOLLOWING CONDITIONS WILL OCCUR:
A. THE WATER/SEWER LINE ROUTE WILL BE CLEARED AND GRUBBED AND THEN GRADED TO PLAN ELEVATION.
B. THE WATER/SEWER LINE WILL BE STAKED WHEN OUTSIDE AN AREA WITH CURB AND GUTTER.
14. ALL LOT CORNERS WILL BE STAKED PRIOR TO SERVICE LINE INSTALLATION. IF THE STREET HAS CURB AND GUTTER IT WILL BE INSTALLED PRIOR TO THE WATER LINE INSTALLATION UNLESS OTHERWISE APPROVED BY THE COUNTY OF LOS ALAMOS. IF A STREET IS NOT DESIGNED WITH CURB AND GUTTER AND HAS A SANITARY SEWER LINE, THEN THE TRENCHES TO BE BACKFILLED AND COMPACTED AND TESTED BEFORE THE WATER LINE INSTALLATION.
15. A MECHANICAL RESTRAINT SYSTEM AS SHOWN IN DRAWING C-501 SHALL BE UTILIZED ON FITTINGS AND PIPING FOR THRUST RESTRAINT.
16. WATER FROM FLUSHING MAINS IS NOT ALLOWED TO BE PUMPED INTO SANITARY SEWER MANHOLES.
17. THE COUNTY OF LOS ALAMOS UTILITIES OPERATIONS DIVISION (505-662-8157) SHALL BE THE ONLY PERSONNEL AUTHORIZED TO OPERATE EXISTING VALVES, FIRE HYDRANTS, ETC. FOR CONSTRUCTION PURPOSES. ALL SHUTOFFS MUST BE COORDINATED SEVEN (7) DAYS PRIOR TO PROPOSED SHUTOFF. CONTACT THE COUNTY'S PROJECT MANAGER AT 505-662-8147.
18. THE CONTRACTOR SHALL PROVIDE A PROPOSED HYDROSTATIC TESTING PLAN. THE PLAN MUST BE APPROVED SEVEN (7) DAYS BEFORE TESTING OPERATIONS BEGIN.
19. LOS ALAMOS COUNTY STANDARD DETAIL GATE VALVE. GATE VALVE TO MATCH PIPELINE DESIGN PRESSURE.

WILSON & COMPANY
2600 THE AMERICAN RD. SE SUITE 100
RIO RANCHO, NM 87124
PHONE: 505-898-8021
FAX: 505-898-8501
www.wilsonco.com

CONSULTANTS



SEAL

LAC JEMEZ MOUNTAIN REGIONAL FIRE PROTECTION SYSTEM PHASE 3

PROJECT NAME

Table with 4 columns: REV., DATE, DESCRIPTION, BY. Contains a grid for revision tracking.

PROJECT NO: 22-600-894-03
DESIGNED BY: RMG
DRAWN BY: STAFF
CHECKED BY: RMG
DATE: MARCH 2026

SHEET TITLE
GENERAL NOTES

NOTICE OF EXTENDED PAYMENT PROVISION: THIS CONTRACT ALLOWS THE OWNER TO MAKE PAYMENT WITHIN 45 DAYS AFTER SUBMISSION OF AN UNDISPUTED REQUEST FOR PAYMENT. (SECTION 57-28-5 B (2) NMSA 1978).
SHEET NO: G-002

**ABBREVIATIONS**

**STANDARD ABBREVIATIONS**

AP	ANALYSIS POINT
@	AT
BC	BEGIN CURVE
BCR	BEGIN CURB RETURN
BK	BOOK
BLDG	BUILDING
BM	BENCH MARK
BOP	BEGINNING OF PROJECT
BVC	BEGIN VERTICAL CURVE
BW	BASE OF WALL
CATV	CABLE TV LINE
CB	CATCH BASIN
CF	CURB FACE
CG	CURB AND GUTTER
CL	CENTERLINE
CMP	CORRUGATED METAL PIPE
CO	CLEAN OUT
CONC	CONCRETE
CY	CUBIC YARDS
DEFL	DEFLECT
DUE	DRAINAGE UTILITY EASEMENT
DI	DROP INLET
DIA	DIAMETER
Δ	DELTA
EA	EACH
EC	END CURVE
ECR	END CURB RETURN
EL	ELEVATION
EOP	END OF PROJECT
EP	EDGE OF PAVEMENT
ESMT	EASEMENT
EVC	END VERTICAL CURVE
EW	EACH WAY
EXIST	EXISTING
FF	FINISH FLOOR
FG	FINISH GRADE
FH	FIRE HYDRANT
FL	FLOW LINE
FOC	FACE OF CURB
FP	FINISHED PAD
G	GAS
GM	GAS METER
GV	GATE VALVE
HORIZ	HORIZONTAL
INT	INTERSECTION
INV	INVERT
INV EL	INVERT ELEVATION
LF	LINEAR FEET
LP	LIGHT POLE
LT	LEFT
MH	MANHOLE
NG	NATURAL GROUND
OC	ON CENTER
PB	PULL BOX
PC	POINT OF CURVATURE
PCC	POINT OF COMPOUND CURVATURE
PG	PAGE
PGI	PROFILE GRADE LINE PER TYPICAL SECTION
PI	POINT OF INTERSECTION
PL	PROPERTY LINE
PRC	POINT OF REVERSE CURVATURE
PT	POINT OF TANGENCY
PUE	PUBLIC UTILITY EASEMENT
PVC	POLYVINYL CHLORIDE PIPE
PVMT	PAVEMENT
RAD	RADIUS
RCP	REINFORCED CONCRETE PIPE
RD	ROOF DRAIN
REF	REFERENCE
RT	RIGHT
R/W,ROW	RIGHT-OF-WAY
S	SLOPE
SAS	SANITARY SEWER LINE
SD	STORM DRAIN
SF	SQUARE FEET
STA	STATION
STD	STANDARD
SW	SIDEWALK
SY	SQUARE YARDS
T	TANGENT
TA	TOP OF ASPHALT
TAC	TOP OF ASPHALT CURB
TBC	TOP BACK OF CURB
TC	TOP OF CONCRETE
TEL	TELEPHONE LINE, RISER OR BOX
TP	TOP OF PIPE
TRANS	TRANSVERSE
TW	TOP OF WALL
TYP	TYPICAL
UE	UNDERGROUND ELECTRICAL LINE
UT	UNDERGROUND TELEPHONE LINE
VC	VERTICAL CURVE
VERT	VERTICAL
VPI	VERTICAL POINT OF INTERSECTION WATERLINE
W	WATER METER
WM	WATER SURFACE ELEVATION
WSEL	WATER VALVE
WV	WATER VALVE

**GENERAL ABBREVIATIONS**

Ø	DIAMETER
#	NUMBER
&	AND
@	AT
Ⓢ	CENTERLINE
A/C	AIR CONDITIONING
AB	ANCHOR BOLT
ABND	ABANDON OR ABANDONED
ADDL	ADDITIONAL
ADJ	ADJUSTABLE, ADJUST
ADPT	ADAPTER
AFG	ABOVE FINISHED GRADE
AHU	AIR HANDLING UNIT
AL	ALUMINUM
ANSI	AMERICAN NATIONAL STANDARDS INSTITUTE
APPROX	APPROXIMATE (LY)
AR	ACID RESISTANT
ARCH	ARCHITECT (URAL) (URE)
ARND	AROUND
ASP	ACTIVATED SLUDGE PUMP
ASPH	ASPHALT
ASTM	AMERICAN SOCIETY FOR TESTING MATERIALS
ATC	AUTOMATIC TEMPERATURE CONTROL
AUTO	AUTOMATIC
AUX	AUXILIARY
AWWA	AMERICAN WATER WORKS ASSOCIATION
AVG	AVERAGE
B&C	BOX AND COVER
BFP	BELT FILTER PRESS
BHP	BRAKE HORSEPOWER
BF	BLIND FLANGE
BLDG	BUILDING
BLW	BELOW
BM	BENCHMARK
BOT	BOTTOM
BOW	BOTTOM OF WALL
BRG	BEARING
BTU	BRITISH THERMAL UNIT
BTWN	BETWEEN
BYND	BEYOND
C	CENTIGRADE
CAP	CAPACITY
CIRC	CIRCUMFERENTIAL
CIT	CITRIC ACID
CFT	CUBIC FEET PER MINUTE
CFS	CUBIC FEET PER SECOND
CJ	CONSTRUCTION JOINT
CLR	CLEAR
CMU	CONCRETE MASONRY UNIT
CO	CLEAN OUT
COL	COLUMN
COMB	COMBINATION
COMP	COMPRESSOR
CON	CONCENTRIC
CONC	CONCRETE
CONN	CONNECTION
CONST	CONSTRUCTION
CONT	CONTINUE (D, S, CONTINUOUS)
CTJ	CONTROL JOINT
CTR	CENTER (ED)
CU FT	CUBIC FOOT (FEET)
CWO	CHAIN WHEEL OPERATOR
DCO	DOUBLE CLEAN OUT
DCT BK	DUCT BANK
DTL (S)	DETAIL (S)
DHDPE	DOUBLE-WALLED HDPE
DI	DUCTILE IRON
DIA	DIAMETER
Δ	DELTA
DIAG	DIAGONAL
DIFF	DIFFUSER
DIV	DIVISION
DN	DOWN
DPVC	DOUBLE-WALLED PVC
DRN	DRAIN
DRNG	DRAWING
DWL	DOWEL(S)
E	EASTING
E & I	ELECTRICAL & INSTRUMENTATION
EA	EACH
ECC	ECCENTRIC
EF	EACH FACE
EL	ELEVATION
ELEC	ELECTRIC(AL)
EMERG	EMERGENCY
ENGR	ENGINEER
EOP	EDGE OF PAVEMENT
EQ	EQUAL
EQPT	EQUIPMENT
EQUIV	EQUIVALENT
ES	EACH SIDE
ESEW	EMERGENCY SHOWER AND EYEWASH
ETC	ETCETERA
EW	EACH WAY
EXP	EXPANSION
EXP JT	EXPANSION JOINT
EXIST	EXISTING
EXT	EXTERIOR
EXTD	EXTENDED
F	FAHRENHEIT
FAC	FACILITY
FC	FACE OF CURB
FD	FLOOR DRAIN
FE	FLANGED END
FG	FINISH GRADE
FIG	FIGURE
FIS	FEEDER ISOLATION SWITCH GEAR
FL	FLOOR
FLG	FLOORING
FM	FORCE MAIN
FRP	FIBERGLASS REINFORCED PLASTIC
FS	FAR SIDE
FT	FEET/FOOT
FTG	FOOTING/FITTING
GAL	GALLON
GALVS	GALVANIZED STEEL

**GENERAL ABBREVIATIONS (CONT)**

GPD	GALLONS PER DAY
GPM	GALLONS PER MINUTE
GRAV	GRAVITY
GSKT	GASKET
GRTG	GRATING
HAS	HEADED ANCHOR STUD
HB	HOSE BIB
HEX	HEXAGON
HGT	HEIGHT
HORIZ	HORIZONTAL
HP	HIGH POINT (HORSEPOWER)
HS	HIGH SERVICE (HIGH STRENGTH)
HWA	HIGH WATER ALARM
HWL	HIGH WATER LEVEL
HWO	HAND WHEEL OPERATOR
HYD	HYDRANT
HZ	HERTZ
I & C	INSTRUMENTATION & CONTROL
ID	INSIDE DIAMETER
INV EL	INVERT ELEVATION
IF	INSIDE FACE
IN	INCH
INT	INTERIOR
INV	INVERT
IRR	IRRIGATION
JB	JUNCTION BOX
JCT	JUNCTION
JT	JOINT
K	KELVIN
KWH	KILOWATT HOUR
LAT	LATITUDE
LB	POUND
LF	LINEAL FEET
LLH	LONG LEG HORIZONTAL
LLV	LONG LEG VERTICAL
LONG	LONGITUDE
LP	LOW POINT (LOW PRESSURE)
LNTL	LINTEL
LR	LONG RADIUS
LWA	LOW WATER ALARM
LWL	LOW WATER LEVEL
MAG	MAGNETIC
MAX	MAXIMUM
MCC	MOTOR CONTROL CENTER
MEAS	MEASURE
MFD	MANUFACTURED
MFM	MICRO FILTER EQUIPMENT MANUFACTURER
MFG	MANUFACTURING
MFR	MANUFACTURER
MG/L	MILLIGRAMS PER LITER
MGD	MILLION GALLONS PER DAY
MH	MANHOLE
MIN	MINIMUM
MISC	MISCELLANEOUS
MJ	MECHANICAL JOINT
MO	MOTOR OPERATOR
MON	MONUMENT
MPH	MILES PER HOUR
MTD	MOUNTED
N	NORTHING
NBS	NATIONAL BUREAU OF STANDARDS
NEC	NATIONAL ELECTRIC CODE
NEMA	NATIONAL ELECTRICAL MANUFACTURERS' ASSOCIATION
NFPA	NATIONAL FIRE PROTECTION ASSOCIATION
NOT IN CONTRACT	NOT IN CONTRACT
NO.	NUMBER
NOS	NATIONAL OCEANOGRAPHIC SURVEY
NS	NON-SHRINK
NTS	NOT TO SCALE
OR	OR EQUAL
OC	ON CENTER
OD	OUTSIDE DIAMETER
OF	OUTSIDE FACE
OH	OVERHEAD (DOOR)
OPNG(S)	OPENING(S)
OPP	OPPOSITE
OPP HD	OPPOSITE HAND
OPT	OPTIONAL
PC	POINT OF CURVE (ATURE)
PDSH	PRESSURE DIFFERENTIAL SENSOR (HIGH)
PE	PLAIN END
PERF	PERFORATED
PI	POINT OF INTERSECTION
PLT	PLANT
PNEU	PNEUMATIC
PPM	PARTS PER MILLION
PRESS	PRESSURE
PRIM	PRIMARY
PS	PUMP STATION
PSI	POUNDS PER SQUARE INCH
PT	POINT
QTY	QUALITY OR QUANTITY
R	RISER(S)
R/W	RIGHT-OF-WAY
RAD	RADIUS
RCP	REINFORCED CONCRETE PIPE
RD	ROOF DRAIN
RED	REDUCER
REF	REFERENCE/REFER
REINF	REINFORCE (D, ING)
REQD	REQUIRED
RJ	RESTRAINED JOINT (S)
RPM	REVOLUTIONS PER MINUTE
RR	RAILROAD
S	SOUTH
SAS	SANITARY SEWER (GRAVITY)
SD	STORM DRAIN (SEWER)
SHC	SODIUM HYPOCHLORITE
SHT	SHEET
SIM	SIMILAR
SL	SIGNAL LINE
SLV	SLEEVE
SPEC	SPECIFICATION (SPECIFIED)
SPR	SPRING
SQ	SQUARE

**GENERAL ABBREVIATIONS (CONT)**

STA	STATION
STD	STANDARD
STIF	STIFFENER
STIR	STIRRUP
STRUC	STRUCTURE (S, URAL)
SWD	SIDE WATER DEPTH
SWK	SIDEWALK
SYM	SYMMETRICAL
T	TREAD (S)
T&B	TOP AND BOTTOM
TAN	TANGENCY
TC	TOP OF CURB ELEVATION
TECH	TECHNICAL
TEL	TELEPHONE
TEMP	TEMPERATURE
TM	TELEMETRY OR TIME
TOP	TOP OF PIPE
TOS	TOP OF STEEL
TV	TELEVISION
TYP	TYPICAL
W	WATER LINE
WL	WATER LINE
WWTP	WASTE WATER TREATMENT PLANT

**PIPING MATERIALS**

BSP	BLACK STEEL PIPE
CI	CAST IRON PIPE
CISP	CAST IRON SOIL PIPE
CMP	CORRUGATED METAL PIPE
CS	CARBON STEEL
CU	COPPER PIPE
DHDPE	DOUBLE WALLED HDPE PIPE
DI	DUCTILE IRON PIPE
DPVC	DOUBLE WALLED PVC PIPE
FRP	FIBERGLASS REINFORCED PLASTIC
GALV	GALVANIZED STEEL PIPE
HDPE	HIGH DENSITY POLYETHYLENE
PLYP	POLYETHYLENE PIPE
PVC	POLYVINYL CHLORIDE PIPE
RCP	REINFORCED CONCRETE PIPE
SST	STAINLESS STEEL PIPE
VCP	VITRIFIED CLAY PIPE
WST	WELDED STEEL PIPE

**PIPING NOMENCLATURE**

BCV	BALL CHECK VALVE
BF	BLIND FLANGE
BFV	BUTTERFLY VALVE
BPRV	BACK PRESSURE REGULATING VALVE
BV	BALL VALVE
COMP JT	COMPRESSION JOINT
CV	CHECK VALVE (AIR CUSHION)
DWV	DRAIN, WASTE, AND VENT
EXP JT	EXPANSION JOINT
FA	FLANGED ADAPTOR
FE	FLANGED END
FH	COUPLING FIRE HYDRANT
FS	FLOOR STAND
GLBV	GLOBE VALVE
GV	GATE VALVE
HFAC	HARNESSED FLANGED ADAPTOR COUPLING
KGV	KNIFE GATE VALVE
MJ	MECHANICAL JOINT
MV	MUD VALVE
PBAV	PLASTIC BALL VALVE
PCV	PRESSURE CONTROL VALVE
PE	PLAIN END
POJ	PUSH ON JOINT
PRV	PRESSURE RELIEF VALVE
PV	PLUG VALVE
PVRV	PRESSURE VACUUM RELIEF VALVE
RJ	RESTRAINED JOINT
SJ	SOLDERED JOINT
SOLV	SOLENOID VALVE
THD	THREADED
TUBV	TRUE UNION BALL VALVE
UN	UNION
VB	VALVE BOX
VC	VICTAULIC COUPLING (SHOULDERED ENDS)
WAP	WALL PIPE
WJ	WELDED JOINT
WP	WELDED PIPE
WSV	WALL SLEEVE

**GENERAL LEGEND**

**UTILITY LINE STYLES**

— EFF —	REUSE WATER LINE
— E —	UNDERGROUND ELECTRICAL CONDUIT
— FM —	FORCE MAIN
— FO —	FIBER OPTIC LINE
— G —	GAS LINE
— UGE —	UNDERGROUND ELECTRIC MAIN LINE
— OHE —	OVERHEAD ELECTRIC LINE
— SAS —	GRAVITY SANITARY SEWER LINE
— SD —	STORM DRAIN
— TV —	UNDERGROUND TELECOMMUNICATIONS
— W —	WATER LINE
— □ —	FENCE LINE
— ○ —	CHAIN FENCE

**MISCELLANEOUS SYMBOLS**

	CONCRETE
	MASONRY BLOCK
	GROUT
	GRAVEL
	GRATING
	CENTERLINE
	STEEL UNLESS NOTED OTHERWISE
	EARTH FILL
	UNDISTURBED EARTH

**WILSON & COMPANY**  
 2600 THE AMERICAN RD. SE SUITE 100  
 RIO RANCHO, NM 87124  
 PHONE: 505-898-8021  
 FAX: 505-898-8501  
 www.wilsonco.com

CONSULTANTS

SEAL

PROJECT NAME

**LAC JEMEZ MOUNTAIN  
 REGIONAL FIRE  
 PROTECTION SYSTEM  
 PHASE 3**

REV.	DATE	DESCRIPTION	BY

PROJECT NO:	22-600-894-03
DESIGNED BY:	RMG
DRAWN BY:	STAFF
CHECKED BY:	RMG
DATE:	MARCH 2026

SHEET TITLE

**GENERAL NOTES  
 AND  
 ABBREVIATIONS**

SHEET NO:

**G-003**

**NOTICE OF EXTENDED PAYMENT PROVISION:**  
 THIS CONTRACT ALLOWS THE OWNER TO MAKE  
 PAYMENT WITHIN 45 DAYS AFTER SUBMISSION  
 OF AN UNDISPUTED REQUEST FOR PAYMENT.  
 (SECTION 57-28-5 B (2) NMSA 1978).

3/12/2026 M:\MSD\20-600-894-03\2\_Disciplines\SHEETS\8\_sheets - utilities\_PHASE III\01\_GEN\268943\_G-004.dwg

ENGINEERS OPINION OF PROBABLE COST - PHASE 3 LAC JEMEZ MTN FIRE PROTECTION					
ITEM NO.	ITEM DESCRIPTION:	UNIT:	QTY:	UNIT PRICE	BID AMOUNT
<b>GENERAL ITEMS</b>					
1	MOBILIZATION/DEMOBILIZATION	LS	1		
2	TRAFFIC CONTROL	LS	1		
3	CONSTRUCTION STAKING, CIP.	LS	1		
4	CONSTRUCTION SURVEY, CIP.	LS	1		
6	RELOCATION OF EXISTING UTILITIES	ALLOW	1		
7	MATERIALS TESTING	ALLOW	1		
8	LABORATORY TESTING	ALLOW	1		
<b>BOOSTER STATIONS</b>					
9	CMU BOOSTER BUILDING, INCL. BUILDING ELECTRICAL, APPURTENANCES, MECHANICAL, AND ALL RELATED ARCHITECTURAL ITEM, CIP	EA	4		
10	CMU BOOSTER BUILDING FOUNDATION, INCL SUBGRADE PREP AND RELATED WORK, CIP	EA	4		
11	RIPRAP SPLASH PADS	SF	64		
12	SITE GRADING, CIP	CY	352		
13	EXCAVATE & DISPOSE OF UNSUITABLE MATERIAL, COMPL.	CY	200		
14	MATERIAL WHEN NOT OBTAINED FROM WITHIN LIMITS OF CONSTRUCTION, COMPL.	CY	100		
15	CHAIN LINK FENCE, INCL. POSTS, HARDWARE & GATES, CIP.	SF	7158		
16	6" THK GRAVEL DRIVE PAD AND SUBGRADE PREP, CIP	SF	711		
17	BOOSTER PUMP SKID 1, INCL. PUMPS, PIPING, FITTINGS, CONTROLS, AND APPURTENANCES, CIP.	EA	1		
18	BOOSTER PUMP SKID 2, INCL. PUMPS, PIPING, FITTINGS, CONTROLS, AND APPURTENANCES, CIP.	EA	1		
19	BOOSTER PUMP SKID 3, INCL. PUMPS, PIPING, FITTINGS, CONTROLS, AND APPURTENANCES, CIP.	EA	1		
20	BOOSTER PUMP SKID 4, INCL. PUMPS, PIPING, FITTINGS, CONTROLS, AND APPURTENANCES, CIP.	LS	1		
21	BOOSTER STATION PIPING, INCL ALL FITTINGS, VALVES, APPURTANANCES AND RELATED ITEMS, CIP	LS	4		
22	8" BACK FLOW PREVENTER, INCL. PIPING, APPURTENANCES, AND VAULT, CIP.	EA	4		
23	2150 CHLORINATOR FOR BOOSTER STATION 4, INCL PIPING, INJECTION QUILL AND ALL APPURTENANCES PER SHEET C-505, CIP	LS	1		
24	CONNECT SITE PIPING TO EXISTING HDPE PIPING, CIP	EA	8		
25	CMP DRAIN PIPE CIP	LF	28		
<b>ELECTRICAL AND FIBER OPTICS</b>					
26	ELECTRICAL SITEWORK - PUMP STATION 1	LS	1		

ENGINEERS OPINION OF PROBABLE COST - PHASE 3 LAC JEMEZ MTN FIRE PROTECTION					
ITEM NO.	ITEM DESCRIPTION:	UNIT:	QTY:	UNIT PRICE	BID AMOUNT
27	ELECTRICAL SITEWORK - PUMP STATIONS 2,3,4	LS	3		
28	ELECTRICAL SITEWORK - UPPER RESERVOIR	LS	1		
29	ELECTRICAL PUMP STATIONS 1,2,3,4	LS	4		
30	INSTRUMENTATION - PUMP STATION 1	LS	1		
31	INSTRUMENTATION - PUMP STATIONS 2,3,4	LS	3		
32	INSTRUMENTATION - UPPER RESERVOIR	LS	1		
33	12 STRAND SINGLE-MODE FO BUNDLE	CLF	259		
34	3 - 1+1/4" HDPE INNERDUCT IN EXISTING 4" PVC CONDUIT	CLF	260		
<b>TANK SITE AND SKI AREA</b>					
35	DISINFECTION AND MECHANICAL SCRUBBING OF EXISTING SKI AREA PIPING, PER SHEET C-004	LS	1		
36	DISINFECTION AND MECHANICAL SCRUBBING OF EXISTING SKI AREA TANK, PER SHEET C-004	LS	1		
37	BACK FLOW PREVENTER AND METER, PER DETAIL SHEET C-502, INCL. PIPING AND APPURTENANCES, HOT BOX ENCLOSURE AND PAD, PER SHEET C-502, CIP.	LS	1		
38	CONNECTION TO EXISTING WATER LINE, CIP	EA	3		
<b>SUMMARY</b>					
				SUB TOTAL	
				NMGRT 7.0625%	
				<b>TOTAL</b>	

NOTICE OF EXTENDED PAYMENT PROVISION:  
THIS CONTRACT ALLOWS THE OWNER TO MAKE PAYMENT WITHIN 45 DAYS AFTER SUBMISSION OF AN UNDISPUTED REQUEST FOR PAYMENT. (SECTION 57-28-5 B (2) NMSA 1978).

**WILSON & COMPANY**  
2600 THE AMERICAN RD., SE SUITE 100  
FLOWING ROCK, NM 87714  
PHONE: 505-898-8021  
FAX: 505-898-8501  
www.wilsoncc.com

CONSULTANTS



SEAL

**LAC JEMEZ MOUNTAIN  
REGIONAL FIRE  
PROTECTION SYSTEM  
PHASE 3**

PROJECT NAME

REV.	DATE	DESCRIPTION	BY

PROJECT NO: 22-600-894-03

DESIGNED BY: RMG

DRAWN BY: STAFF

CHECKED BY: RMG

DATE: MARCH 2026

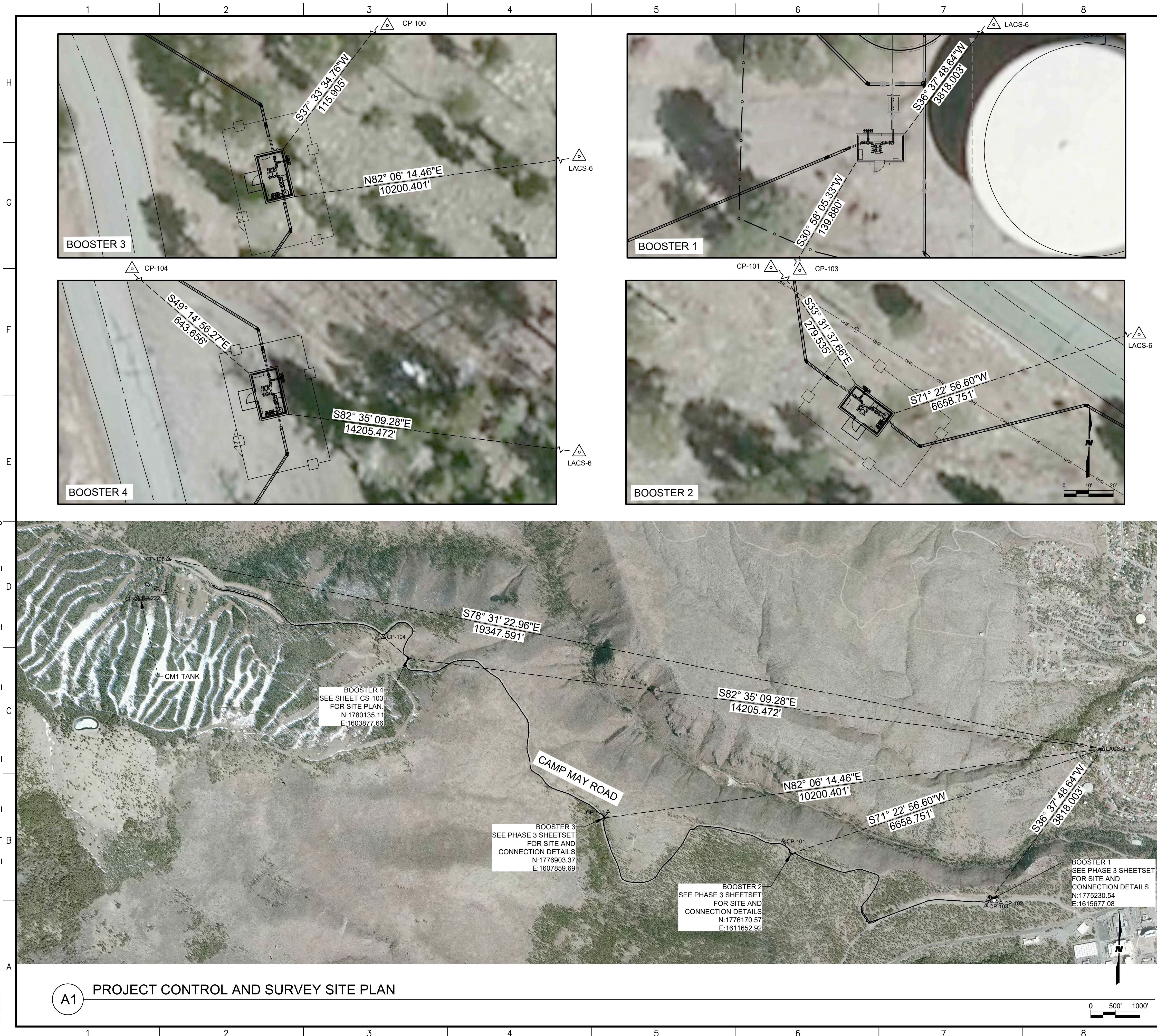
SHEET TITLE

**QUANTITIES**

SHEET NO:

**G-004**

M:\MSD\20-600-894-0312\_Disciplines\_SHEETS\8\_sheets - utilities\_PHASE III\01\_GEN\268943\_G-005.dwg  
3/12/2026



**A1 PROJECT CONTROL AND SURVEY SITE PLAN**

**SITE DESCRIPTION:**  
CAMP MAY ROAD LOCATED BETWEEN CAMP MAY TRAIL AND PAJARITO MOUNTAIN SKI AREA, COUNTY OF LOS ALAMOS, STATE OF NEW MEXICO.

**GENERAL SURVEY NOTES:**

- THIS IS NOT A BOUNDARY SURVEY, APPARENT PROPERTY CORNERS ARE SHOWN FOR ORIENTATION ONLY.
- HORIZONTAL AND VERTICAL BASED ON NMDOT CONTROL MAP FOR LOS ALAMOS COUNTY, NM STATE PLANE CENTRAL ZONE (SCALED TO GROUND), NAD 83, NAVD 88. SCALED TO GROUND AROUND (0,0) USING A COMBINED GRID-TO-GROUND FACTOR OF 1.0004460530.

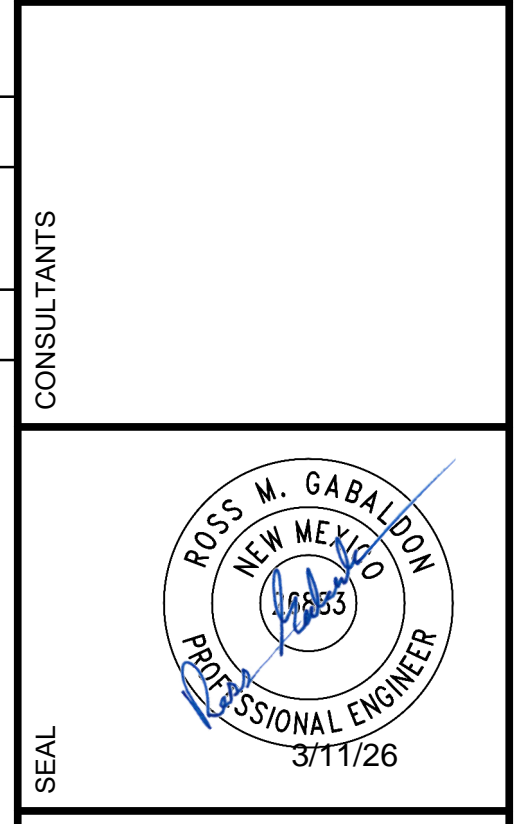
**PROJECT BENCHMARK:**  
BENCHMARK USED IS A BRASS SURVEY DISK STAMPED "BC 28 RESET PS 5218" SET ON THE WEST SIDE OF EAST SIDEWALK AT 1020 48TH STREET, NAVD 88. ELEVATION = 7406.36'

**TEMPORARY BENCHMARK (TBM):**  
TEMPORARY BENCHMARK IS A REBAR WITH ALUMINUM CAP STAMPED "CP-100". LOCATED AS SHOWN ON PLAN. ELEVATION = 8514.74'

**CONTROL POINT DATA:**

BRASS CAP "BC 28 RESET PS 5218" N: 1778303.4780 E: 1617974.5080 ELEV: 7406.360	CONTROL POINT: CP-100 N: 1777013.542 E: 1607936.875 ELEV: 8514.744
CONTROL POINT: CP-104 N: 1603383.923 E: 1780573.413 ELEV: 9066.965	CONTROL POINT: CP-108 N: 1782153.141 E: 1599013.776 ELEV: 9228.944

**WILSON & COMPANY**  
2600 THE AMERICAN RD, SE SUITE 100  
RIO RANCHO, NM 87124  
PHONE: 505-898-8021  
FAX: 505-898-8501  
www.wilsonco.com



PROJECT NAME  
**LAC JEMEZ MOUNTAIN REGIONAL FIRE PROTECTION SYSTEM PHASE 3**

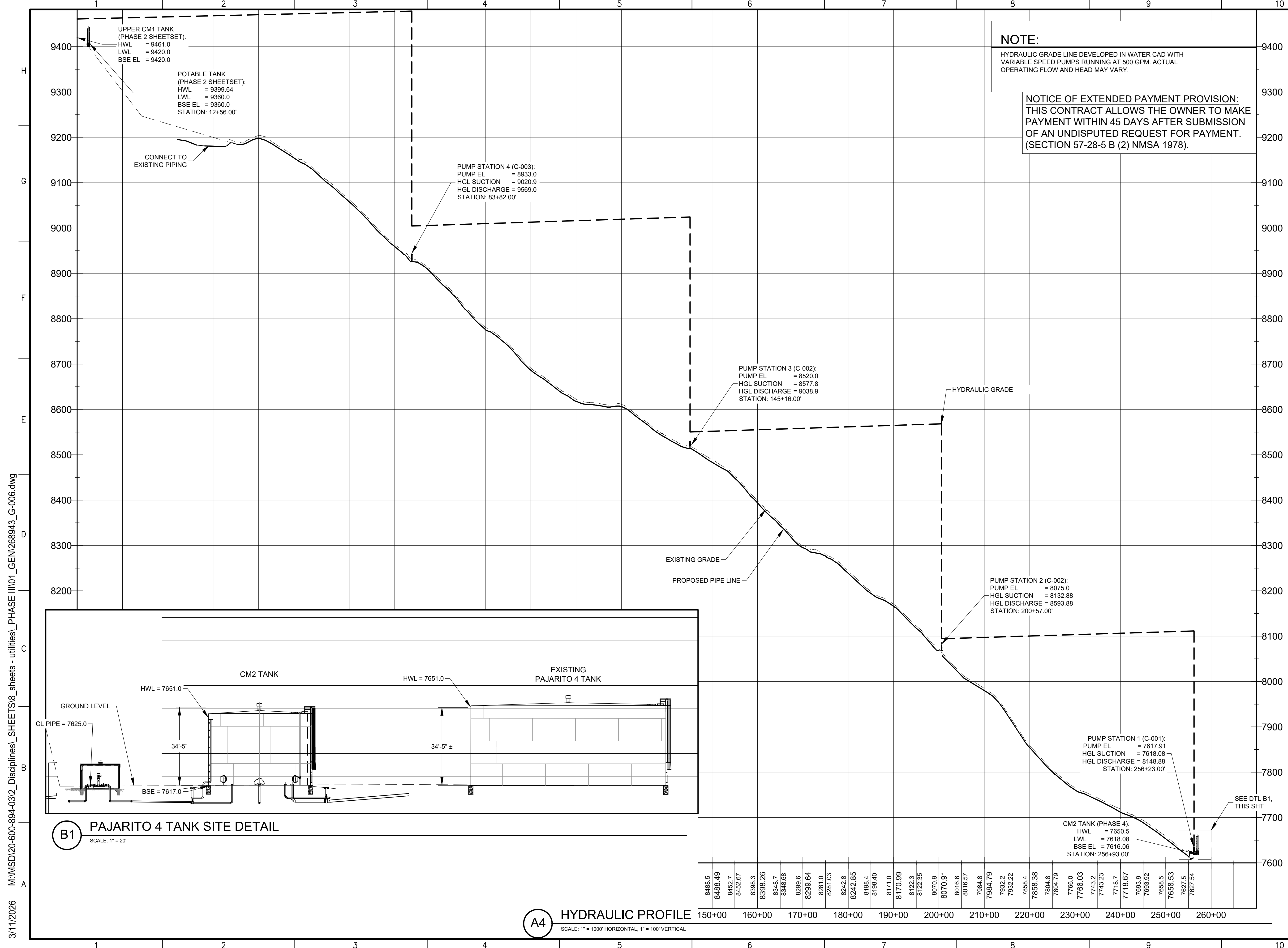
REV.	DATE	DESCRIPTION	BY

PROJECT NO: 22-600-894-03  
DESIGNED BY: RMG  
DRAWN BY: STAFF  
CHECKED BY: RMG  
DATE: MARCH 2026

SHEET TITLE  
**PROJECT CONTROL AND SURVEY PLAN**

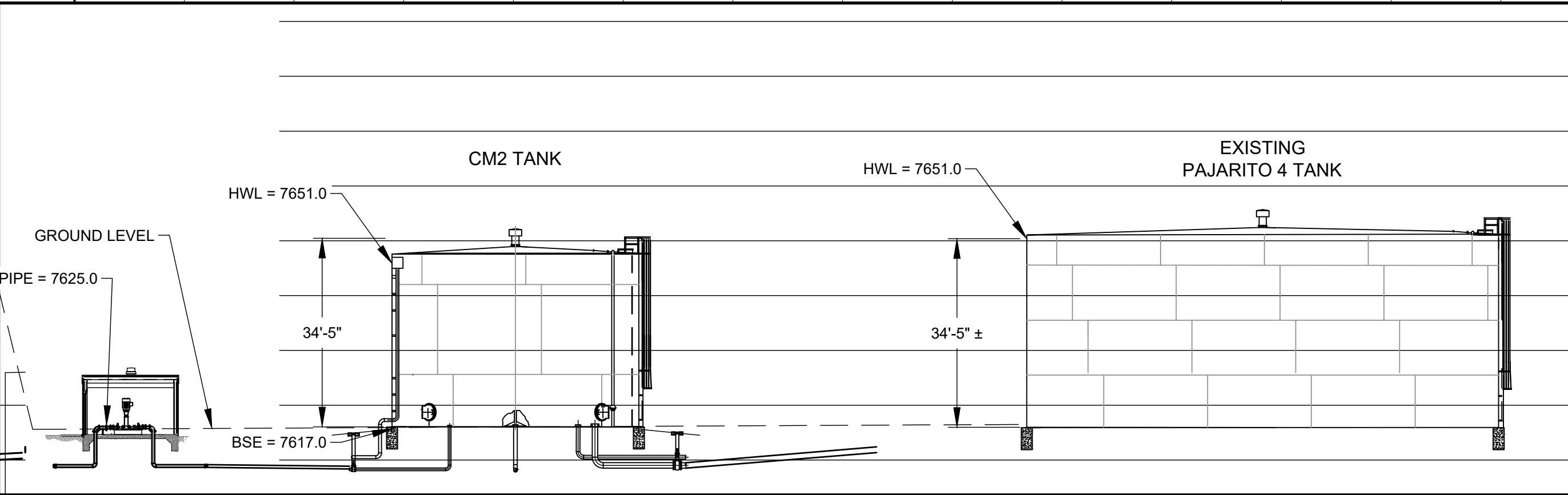
NOTICE OF EXTENDED PAYMENT PROVISION:  
THIS CONTRACT ALLOWS THE OWNER TO MAKE PAYMENT WITHIN 45 DAYS AFTER SUBMISSION OF AN UNDISPUTED REQUEST FOR PAYMENT. (SECTION 57-28-5 B (2) NMSA 1978).

SHEET NO: **G-005**



**NOTE:**  
 HYDRAULIC GRADE LINE DEVELOPED IN WATER CAD WITH VARIABLE SPEED PUMPS RUNNING AT 500 GPM. ACTUAL OPERATING FLOW AND HEAD MAY VARY.

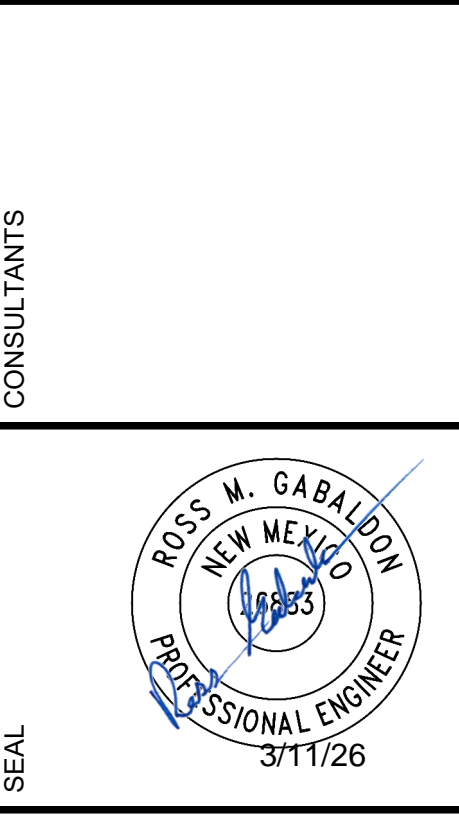
**NOTICE OF EXTENDED PAYMENT PROVISION:**  
 THIS CONTRACT ALLOWS THE OWNER TO MAKE PAYMENT WITHIN 45 DAYS AFTER SUBMISSION OF AN UNDISPUTED REQUEST FOR PAYMENT. (SECTION 57-28-5 B (2) NMSA 1978).



**B1** PAJARITO 4 TANK SITE DETAIL  
 SCALE: 1" = 20'

**A4** HYDRAULIC PROFILE  
 SCALE: 1" = 1000' HORIZONTAL, 1" = 100' VERTICAL

**WILSON & COMPANY**  
 2600 THE AMERICAN RD. SE SUITE 100  
 RIO RANCHO, NM 87124  
 PHONE: 505-898-8021  
 FAX: 505-898-8501  
 www.wilsonco.com



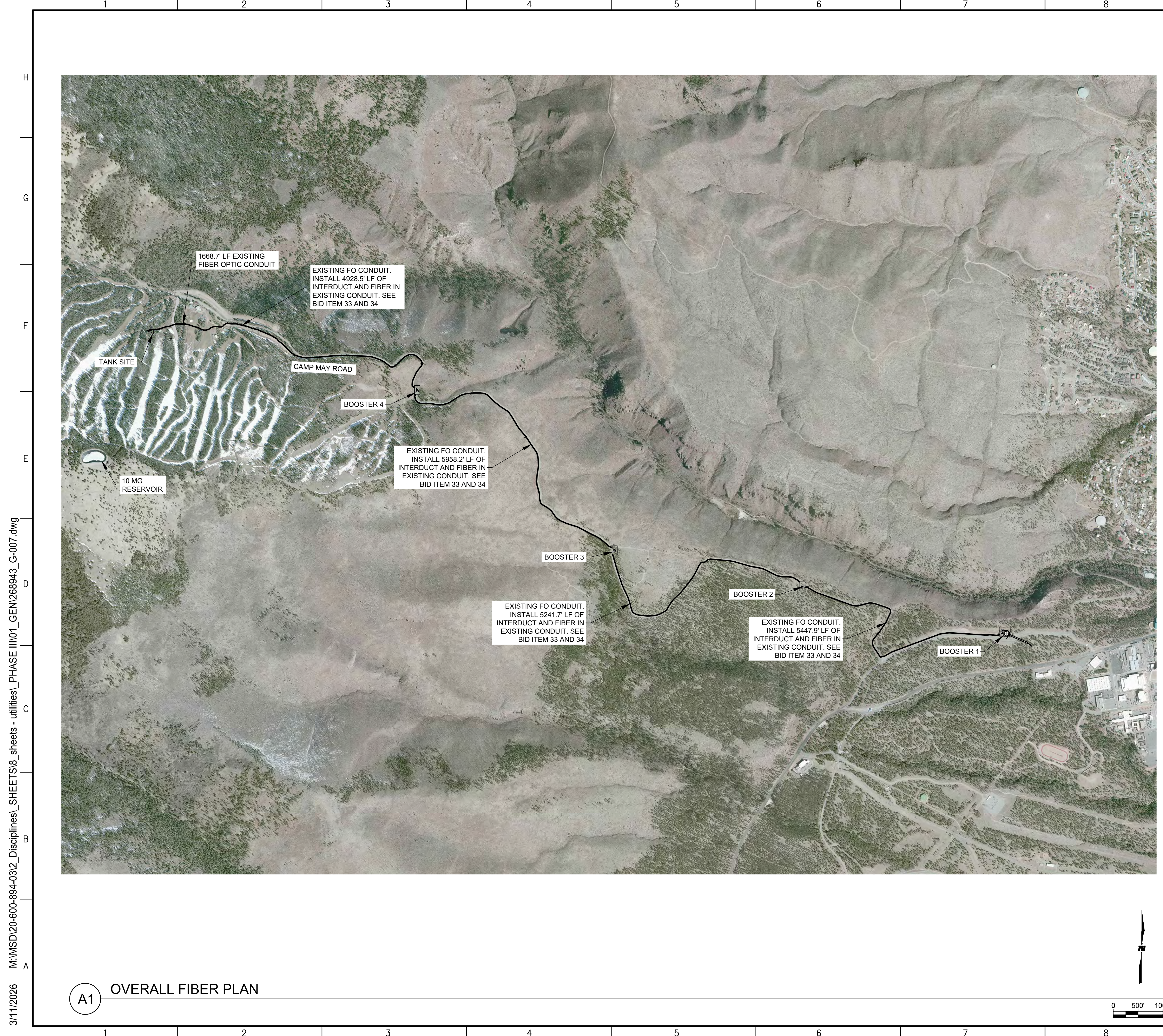
**PROJECT NAME**  
 LAC JEMEZ MOUNTAIN  
 REGIONAL FIRE  
 PROTECTION SYSTEM  
 PHASE 3

REV.	DATE	DESCRIPTION	BY

**PROJECT NO:** 22-600-894-03  
**DESIGNED BY:** RMG  
**DRAWN BY:** STAFF  
**CHECKED BY:** RMG  
**DATE:** MARCH 2026

**SHEET TITLE**  
 HYDRAULIC  
 PROFILE

**SHEET NO:**  
 G-006



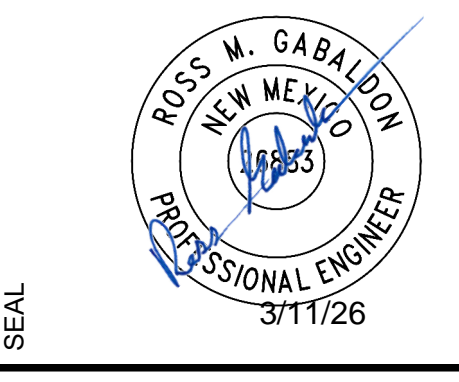
**A1** OVERALL FIBER PLAN

**GENERAL NOTES:**

1. ALL EXISTING AND NEW UNDERGROUND UTILITIES SHOWN ON THIS PLAN ARE APPROXIMATE LOCATIONS. CONTRACTOR SHALL VERIFY LOCATION OF ALL UNDERGROUND UTILITIES BEFORE COMMENCING WORK.
2. MINIMUM 1.5' CLEARANCE FOR CROSSINGS BETWEEN PIPELINE AND EXISTING UTILITIES, OR USE LEANFILL.
3. PROTECT EXISTING FENCING AT TANK FROM DAMAGE, UNLESS OTHERWISE NOTED ON PLAN.
4. CONTRACTOR TO PROVIDE EXCAVATION PLAN FOR RELEASE TO LOS ALAMOS. BACKFILL SHALL MEET SELECT FILL REQUIREMENTS.
5. ALL SELECT FILL SHALL MEET LOS ALAMOS COUNTY STD REQUIREMENTS AND THE REQUIREMENTS OF THE GEOTECHNICAL INVESTIGATION AS CONTAINED IN THE CONTRACT DOCUMENTS.
6. ALL BACKFILL AROUND THE BOOSTER STATION SHALL BE COMPACTED TO A MINIMUM 95% COMPACTION PER ASTM D 1557. THE 6-FT NEAREST TO THE BUILDING MEET STRUCTURAL FILL REQUIREMENTS.
7. BEST AVAILABLE INFORMATION ON SUB-SURFACE CONDITIONS IS PROVIDED IN THE GEOTECHNICAL REPORT. CONTRACTOR SHALL VERIFY EXISTING SUBSURFACE CONDITIONS PRIOR TO CONSTRUCTION. SHOULD DIFFERING SITE CONDITIONS EXIST THE CONTRACTOR SHALL NOTIFY THE OWNER/ENGINEER IMMEDIATELY PRIOR TO PROCEEDING WITH CONSTRUCTION.
8. ALL BURIED PIPE FLANGES SHALL HAVE STAINLESS STEEL BOLTS, COATED WITH COAL TAR EPOXY.

**WILSON & COMPANY**  
 2600 THE AMERICAN RD. SE SUITE 100  
 RIO RANCHO, NM 87124  
 PHONE: 505-898-8021  
 FAX: 505-898-8501  
 www.wilsonco.com

CONSULTANTS



PROJECT NAME  
**LAC JEMEZ MOUNTAIN  
 REGIONAL FIRE  
 PROTECTION SYSTEM  
 PHASE 3**

REV.	DATE	DESCRIPTION	BY

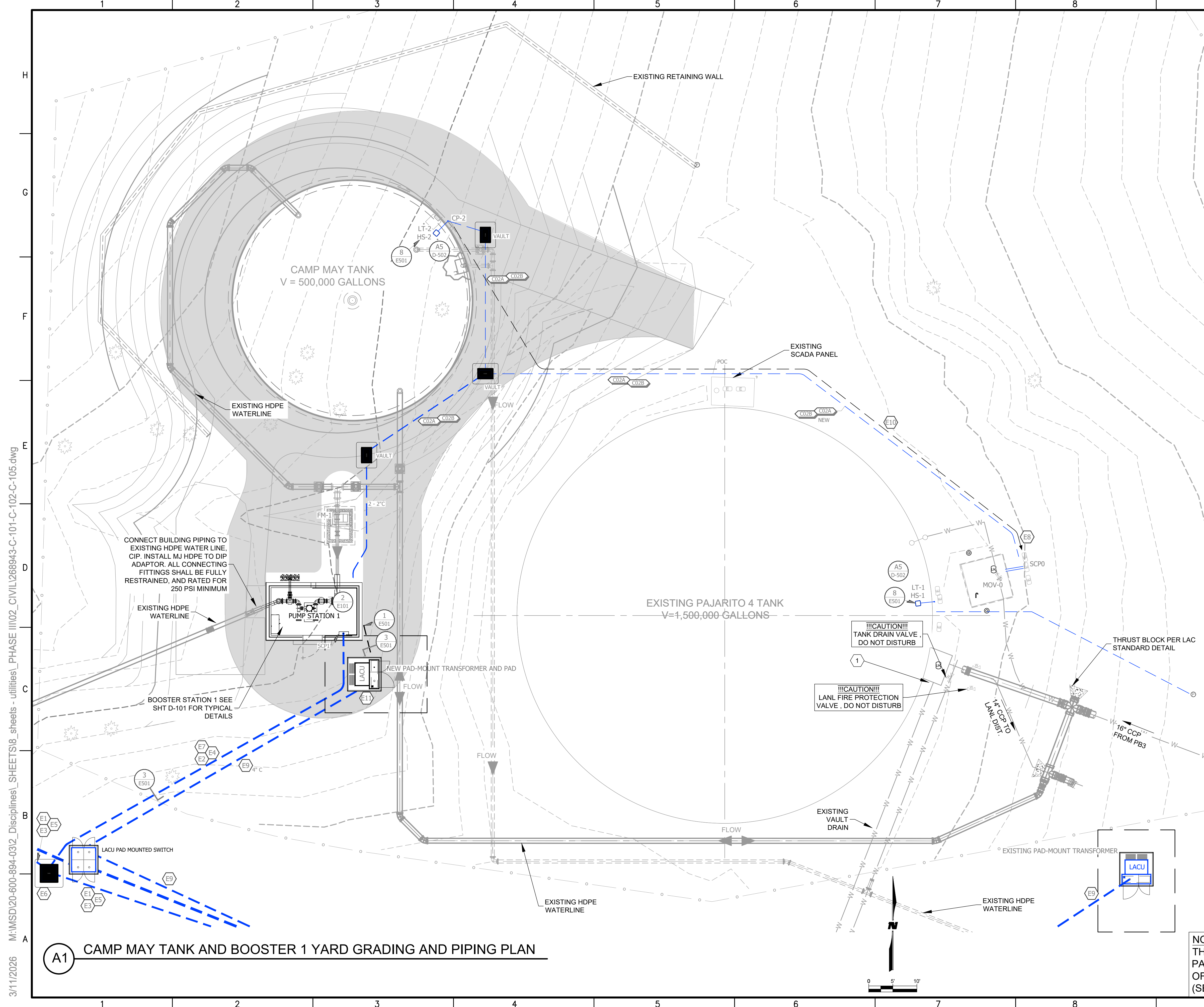
PROJECT NO: 22-600-894-03  
 DESIGNED BY: RMG  
 DRAWN BY: STAFF  
 CHECKED BY: RMG  
 DATE: MARCH 2026

SHEET TITLE  
**OVERALL FIBER  
 PLAN**

**NOTICE OF EXTENDED PAYMENT PROVISION:**  
 THIS CONTRACT ALLOWS THE OWNER TO MAKE  
 PAYMENT WITHIN 45 DAYS AFTER SUBMISSION  
 OF AN UNDISPUTED REQUEST FOR PAYMENT.  
 (SECTION 57-28-5 B (2) NMSA 1978).

SHEET NO:  
**G-007**

3/11/2026 M:\MSD\20-600-894-03\2\_Disciplines\_SHEETS\8\_sheets - utilities\_PHASE III\01\_GEN\268943\_G-007.dwg Attachment A



**GENERAL NOTES**

1. CONTRACTOR SHALL PERFORM SEEDING FOR ALL DISTURBED AREAS THAT ARE NOT PAVED OR IMPROVED.
2. CONTRACTOR SHALL CONSTRUCT DRAINAGE IMPROVEMENTS TO ACTIVELY DRAIN WATER AWAY FROM TANK AND BUILDING FOUNDATION.
3. COUNTY HAS AVAILABLE GRADING MATERIAL.
4. REFER TO GENERAL NOTES ON DRAWINGS E001
5. ALL OFF-SITE WORK IN PUBLIC RIGHT-OF-WAY SHALL COMPLY WITH LOCAL GOVERNMENT REQUIREMENTS AND PERMITTING FOR ACCESS, SAFETY, TRAFFIC CONTROL, UTILITY LOCATION MARKING, AND CONSTRUCTION
6. EXISTING SITE AND OFF-SITE GROUND SURFACES AND SUB-SURFACE IMPROVEMENTS DAMAGED OR DISTURBED DURING CONSTRUCTION SHALL BE REPAIRED OR REPLACED TO THE SATISFACTION OF THE RESPECTIVE OWNER - OBTAIN WRITTEN APPROVAL OF THE REPAIR OR REPLACEMENT FROM THE OWNER AND SUBMIT ONE COPY TO THE OWNER IN THIS CONSTRUCTION CONTRACT
7. MAINTAIN AND PROTECT ALL EXISTING UTILITIES AND SERVICES DURING CONSTRUCTION - OUTAGES SHALL BE SCHEDULED AND NOTICES ISSUED A MINIMUM OF 2-DAYS PRIOR
8. REFER TO OTHER SITE PLANS IN THIS SET OF DRAWINGS FOR LOCATIONS OF EXISTING AND NEW WATER, SEWER, GAS, COMMUNICATIONS, AND STORM DRAIN UTILITY LOCATIONS AND SERVICE REPRESENTATIVE CONTACT INFORMATION

**KEYNOTES**

- ① FLUSH TO CLEAN EXISTING 4" VAULT DRAIN LINE TO RESTORE FLOW.
- ①E1 PROVIDE 3 - 1+1/4" CORRUGATED HDPE INNERDUCT (TRI-COLOR)
- ①E2 PROVIDE 4" C 24" BFG MIN W/ 3 - 1+1/4" CORRUGATED HDPE INNERDUCT (TRI-COLOR)
- ①E3 PROVIDE FOS12 FIBER BUNDLE
- ①E4 PROVIDE 2 - FOS12 FIBER BUNDLES THROUGH ONE INNERDUCT
- ①E5 EXISTING 4" C INSTALLED IN PREVIOUS PHASE
- ①E6 COMMUNICATIONS VAULT INSTALLED IN PREVIOUS PHASE
- ①E7 PULL FIBER BUNDLES INTO PATCH PANEL w/o SPLICES IN VAULT
- ①E8 PROVIDE 20A1P BRANCH CB FOR EXISTING PANEL BOARD
- ①E9 LOCATION AND ROUTE OF EXISTING CONDUCTORS IS UNKNOWN AND NOT VERIFIED - ROUTE SHOWN IS ASSUMED
- ①E10 PROVIDE 2#10 & #10G - 1" C 24" MIN BELOW FINISH GRADE
- ①E11 PROVIDE CIP CONCRETE OR FORMED POLYMER RESIN CONCRETE TRANSFORMER PAD w/ BLOCK-OUTS PER UTILITY REQUIREMENTS

**WILSON & COMPANY**  
 2600 THE AMERICAN RD. SE SUITE 100  
 RIO RANCHO, NM 87124  
 PHONE: 505-898-8021  
 FAX: 505-898-8501  
 www.wilsonco.com

CONSULTANTS

PROJECT NAME  
**LAC JEMEZ MOUNTAIN  
 REGIONAL FIRE  
 PROTECTION SYSTEM  
 PHASE 3**

REV.	DATE	DESCRIPTION	BY

PROJECT NO: 20-600-894-03  
 DESIGNED BY: BJA/RMG  
 DRAWN BY: STAFF  
 CHECKED BY: RBM/A  
 DATE: MAY 08 2026

ELECTRICAL SEAL

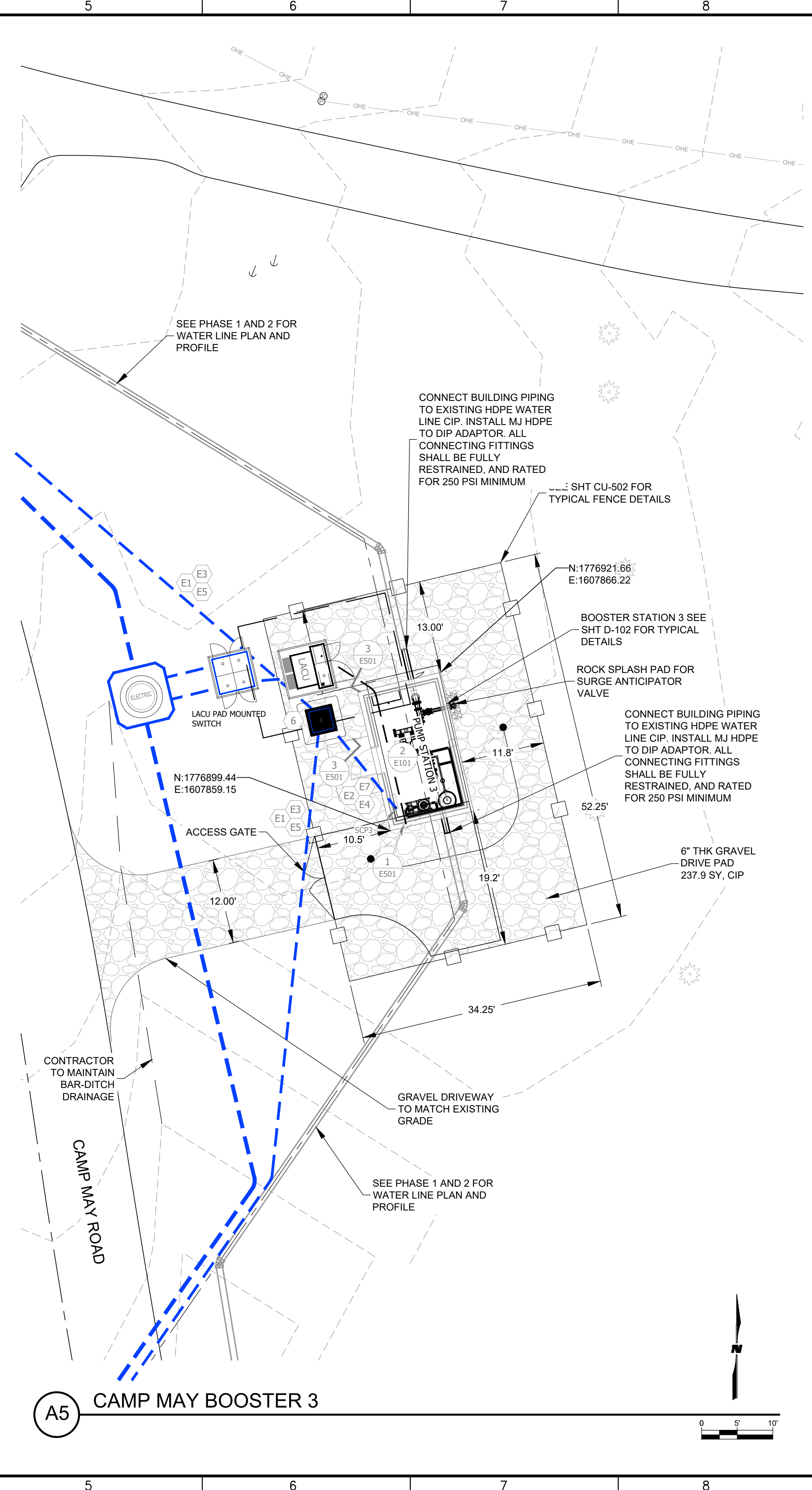
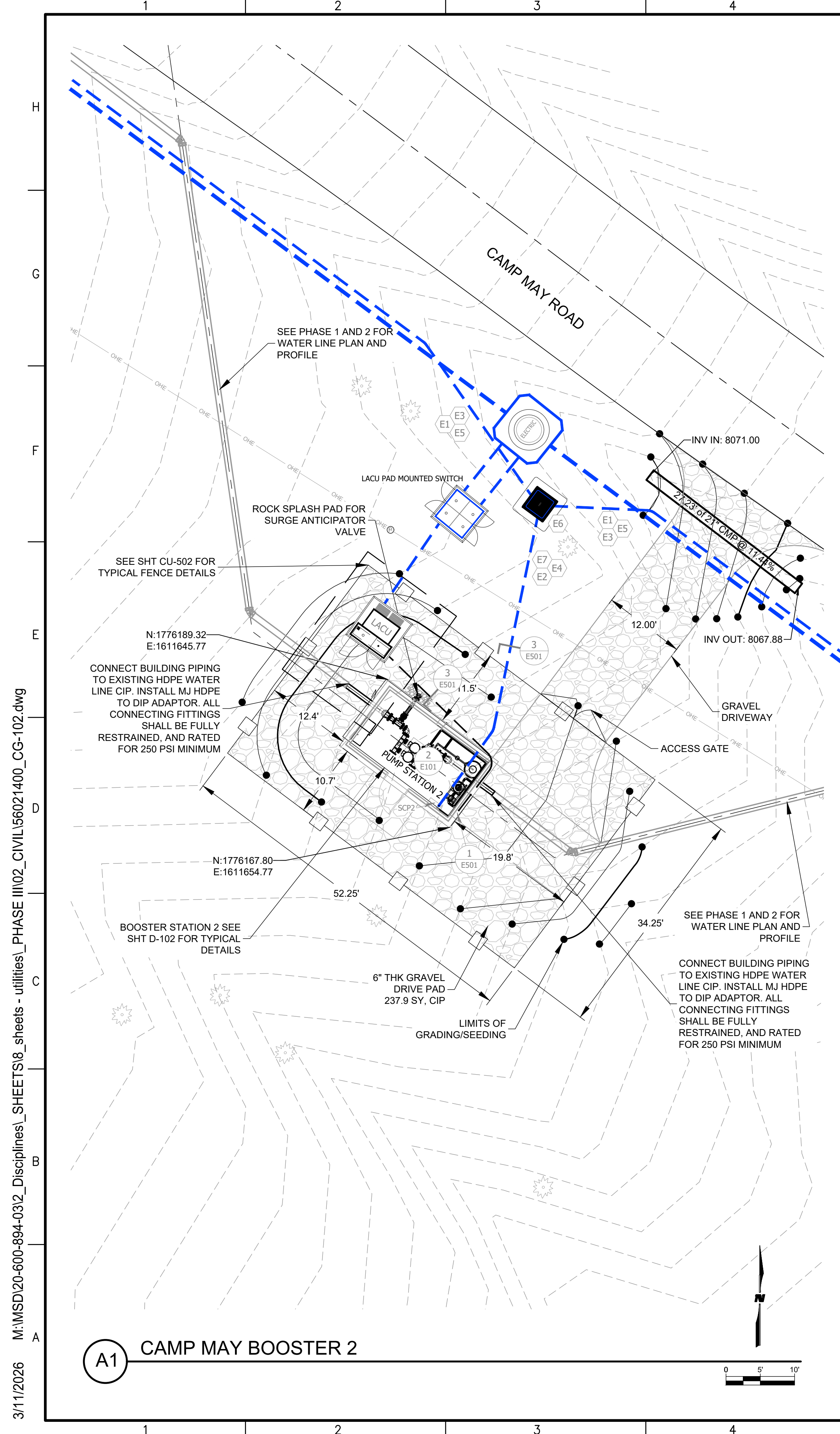
**NOTICE OF EXTENDED PAYMENT PROVISION:**  
 THIS CONTRACT ALLOWS THE OWNER TO MAKE PAYMENT WITHIN 45 DAYS AFTER SUBMISSION OF AN UNDISPUTED REQUEST FOR PAYMENT. (SECTION 57-28-5 B (2) NMSA 1978).

SHEET TITLE  
**BOOSTER 1 SITE  
 GRADING AND  
 PIPING**

SHEET NO:  
**C-001**

3/11/2026 M:\MSD\20-600-894-03\2\_Disciplines\_SHEETS\8\_sheets - utilities\_PHASE III\02\_CIVIL\268943-C-101-C-102-C-105.dwg Attachment A

**A1 CAMP MAY TANK AND BOOSTER 1 YARD GRADING AND PIPING PLAN**



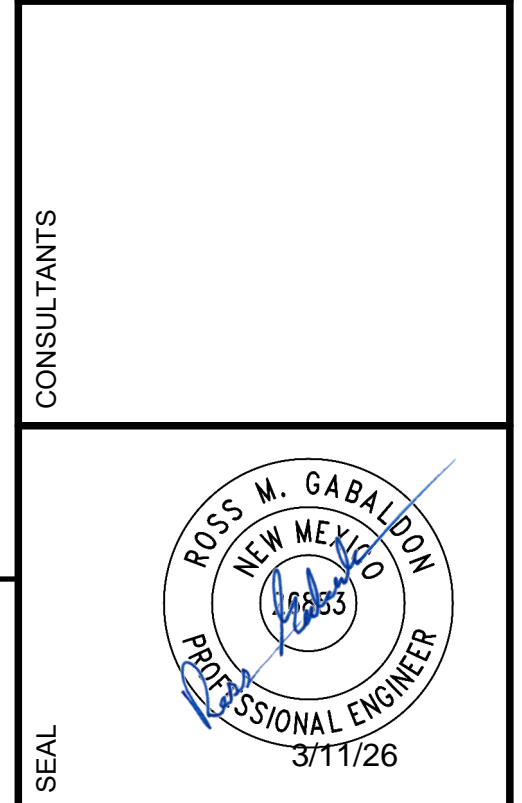
**GENERAL NOTES**

1. CONTRACTOR SHALL PERFORM SEEDING FOR ALL DISTURBED AREAS THAT ARE NOT PAVED OR IMPROVED.
2. CONTRACTOR SHALL CONSTRUCT DRAINAGE IMPROVEMENTS TO ACTIVELY DRAIN WATER AWAY FROM BUILDING FOUNDATION.
3. REFER TO GENERAL NOTES ON DRAWINGS E001
4. ALL OFF-SITE WORK IN PUBLIC RIGHT-OF-WAY SHALL COMPLY WITH LOCAL GOVERNMENT REQUIREMENTS AND PERMITTING FOR ACCESS, SAFETY, TRAFFIC CONTROL, UTILITY LOCATION MARKING, AND CONSTRUCTION
5. EXISTING SITE AND OFF-SITE GROUND SURFACES AND SUB-SURFACE IMPROVEMENTS DAMAGED OR DISTURBED DURING CONSTRUCTION SHALL BE REPAIRED OR REPLACED TO THE SATISFACTION OF THE RESPECTIVE OWNER - OBTAIN WRITTEN APPROVAL OF THE REPAIR OR REPLACEMENT FROM THE OWNER AND SUBMIT ONE COPY TO THE OWNER IN THIS CONSTRUCTION CONTRACT
6. MAINTAIN AND PROTECT ALL EXISTING UTILITIES AND SERVICES DURING CONSTRUCTION - OUTAGES SHALL BE SCHEDULED AND NOTICES ISSUED A MINIMUM OF 2-DAYS PRIOR
7. REFER TO OTHER SITE PLANS IN THIS SET OF DRAWINGS FOR LOCATIONS OF EXISTING AND NEW WATER, SEWER, GAS, COMMUNICATIONS, AND STORM DRAIN UTILITY LOCATIONS AND SERVICE REPRESENTATIVE CONTACT INFORMATION

**KEYNOTES**

- E1 PROVIDE 3 - 1+1/4" CORRUGATED HDPE INNERDUCT (TRI-COLOR)
- E2 PROVIDE 4"C 24" BFG MIN w/ 3 - 1+1/4" CORRUGATED HDPE INNERDUCT (TRI-COLOR)
- E3 PROVIDE FOS12 FIBER BUNDLE
- E4 PROVIDE 2 - FOS12 FIBER BUNDLES THROUGH ONE INNERDUCT
- E5 EXISTING 4"C INSTALLED IN PREVIOUS PHASE
- E6 COMMUNICATIONS VAULT INSTALLED IN PREVIOUS PHASE
- E7 PULL FIBER BUNDLES INTO PATCH PANEL w/o SPLICES IN VAULT

**WILSON & COMPANY**  
 2600 THE AMERICAN RD. SE SUITE 100  
 RIO RANCHO, NM 87124  
 PHONE: 505-898-8021  
 FAX: 505-898-8501  
 www.wilsonco.com



**LAC JEMEZ MOUNTAIN REGIONAL FIRE PROTECTION SYSTEM PHASE 3**

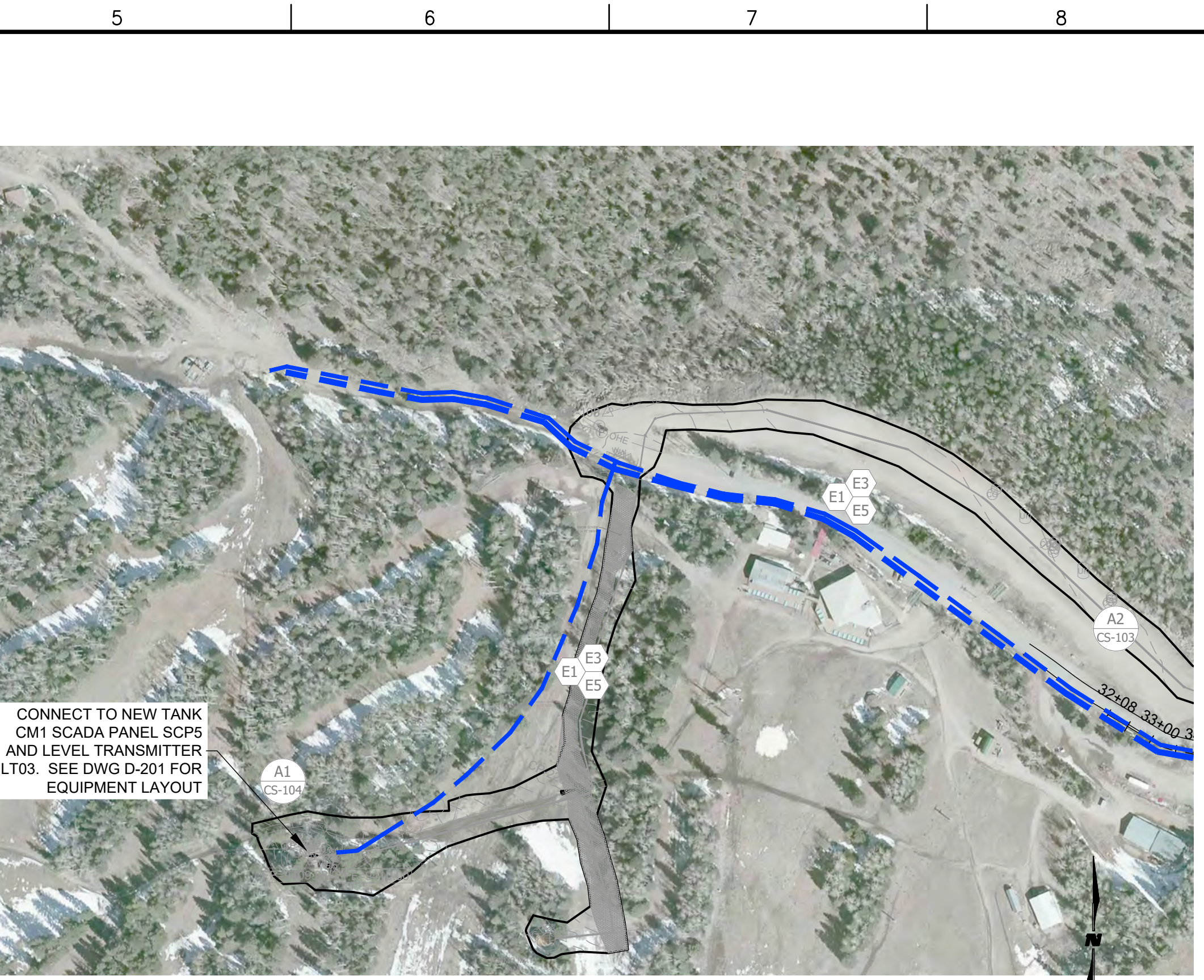
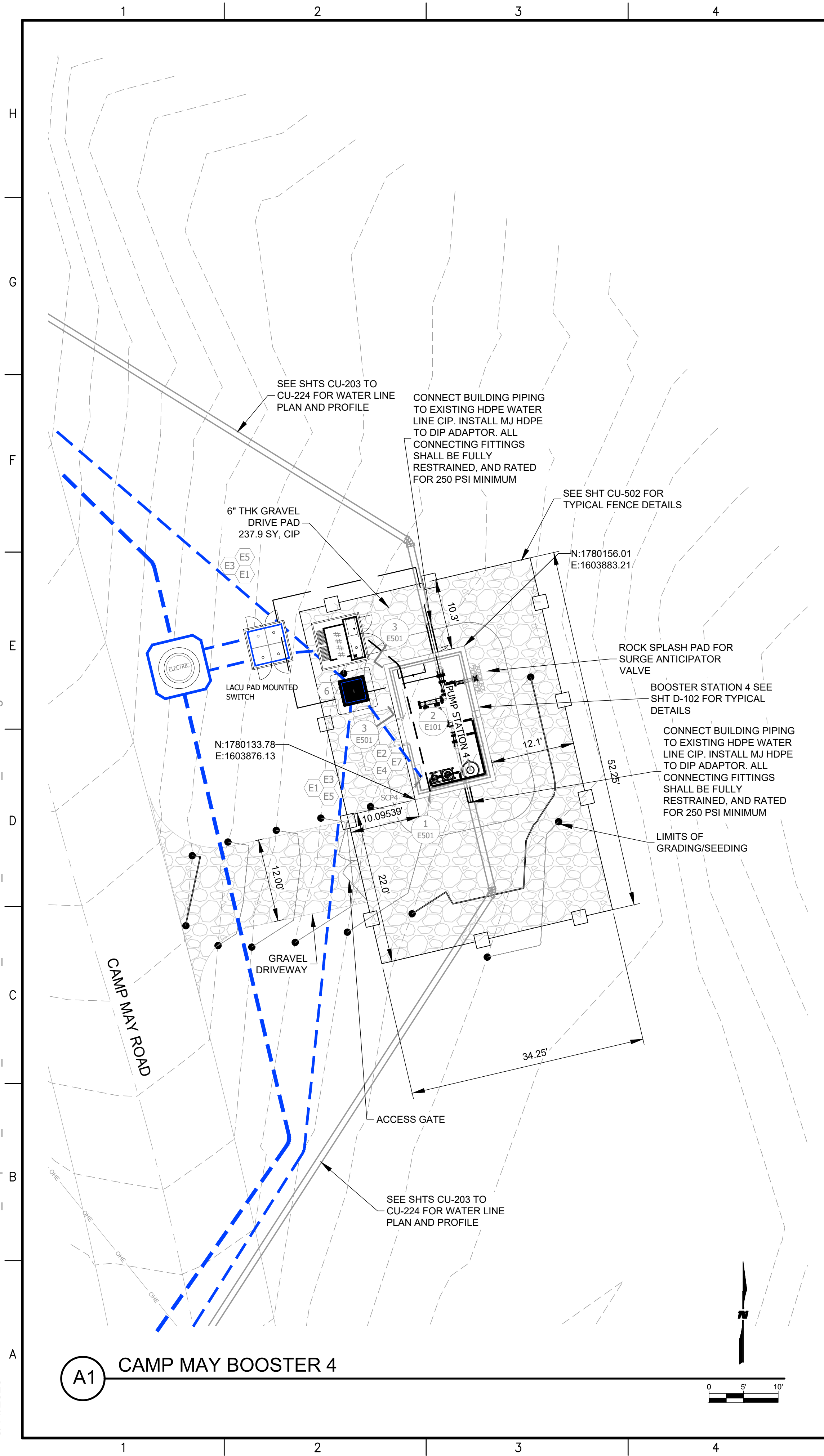
REV.	DATE	DESCRIPTION	BY

PROJECT NO: 22-600-894-03  
 DESIGNED BY: RMG  
 DRAWN BY: STAFF  
 CHECKED BY: RMG  
 DATE: MARCH 2026  
 SHEET TITLE  
**BOOSTER 2 AND 3 SITE GRADING AND PIPING PLAN**  
 SHEET NO:  
**C-002**

NOTICE OF EXTENDED PAYMENT PROVISION:  
 THIS CONTRACT ALLOWS THE OWNER TO MAKE PAYMENT WITHIN 45 DAYS AFTER SUBMISSION OF AN UNDISPUTED REQUEST FOR PAYMENT. (SECTION 57-28-5 B (2) NMSA 1978).



M:\MSD\20-600-894-03\2\_Disciplines\Sheets\8\_sheets - utilities\_PHASE III\02\_CIVIL\66021400\_CG-103.dwg  
3/11/2026 Attachment A



**E5** FIBER OPTIC PLAN

**GENERAL NOTES**

- CONTRACTOR SHALL PERFORM SEEDING FOR ALL DISTURBED AREAS THAT ARE NOT PAVED OR IMPROVED.
- CONTRACTOR SHALL CONSTRUCT DRAINAGE IMPROVEMENTS TO ACTIVELY DRAIN WATER AWAY FROM BUILDING FOUNDATION.
- COUNTY HAS AVAILABLE GRADING MATERIAL.
- REFER TO GENERAL NOTES ON DRAWINGS E001
- ALL OFF-SITE WORK IN PUBLIC RIGHT-OF-WAY SHALL COMPLY WITH LOCAL GOVERNMENT REQUIREMENTS AND PERMITTING FOR ACCESS, SAFETY, TRAFFIC CONTROL, UTILITY LOCATION MARKING, AND CONSTRUCTION
- EXISTING SITE AND OFF-SITE GROUND SURFACES AND SUB-SURFACE IMPROVEMENTS DAMAGED OR DISTURBED DURING CONSTRUCTION SHALL BE REPAIRED OR REPLACED TO THE SATISFACTION OF THE RESPECTIVE OWNER - OBTAIN WRITTEN APPROVAL OF THE REPAIR OR REPLACEMENT FROM THE OWNER AND SUBMIT ONE COPY TO THE OWNER IN THIS CONSTRUCTION CONTRACT
- MAINTAIN AND PROTECT ALL EXISTING UTILITIES AND SERVICES DURING CONSTRUCTION - OUTAGES SHALL BE SCHEDULED AND NOTICES ISSUED A MINIMUM OF 2-DAYS PRIOR
- REFER TO OTHER SITE PLANS IN THIS SET OF DRAWINGS FOR LOCATIONS OF EXISTING AND NEW WATER, SEWER, GAS, COMMUNICATIONS, AND STORM DRAIN UTILITY LOCATIONS AND SERVICE REPRESENTATIVE CONTACT INFORMATION

**KEYNOTES**

- (E1) PROVIDE 3 - 1+1/4" CORRUGATED HDPE INNERDUCT (TRI-COLOR)
- (E2) PROVIDE 4"X 24" BFG MIN w/ 3 - 1+1/4" CORRUGATED HDPE INNERDUCT (TRI-COLOR)
- (E3) PROVIDE FOS12 FIBER BUNDLE
- (E4) PROVIDE 2 - FOS12 FIBER BUNDLES THROUGH ONE INNERDUCT
- (E5) EXISTING 4"C INSTALLED IN PREVIOUS PHASE
- (E6) COMMUNICATIONS VAULT INSTALLED IN PREVIOUS PHASE
- (E7) PULL FIBER BUNDLES INTO PATCH PANEL w/o SPLICES IN VAULT

**WILSON & COMPANY**  
2600 THE AMERICAN RD. SE SUITE 100  
RIO RANCHO, NM 87124  
PHONE: 505-898-8021  
FAX: 505-898-8501  
www.wilsonco.com

CONSULTANTS

ROSS M. GABALDON  
NEW MEXICO  
PROFESSIONAL ENGINEER  
3/11/26

PROJECT NAME  
**LAC JEMEZ MOUNTAIN REGIONAL FIRE PROTECTION SYSTEM PHASE 3**

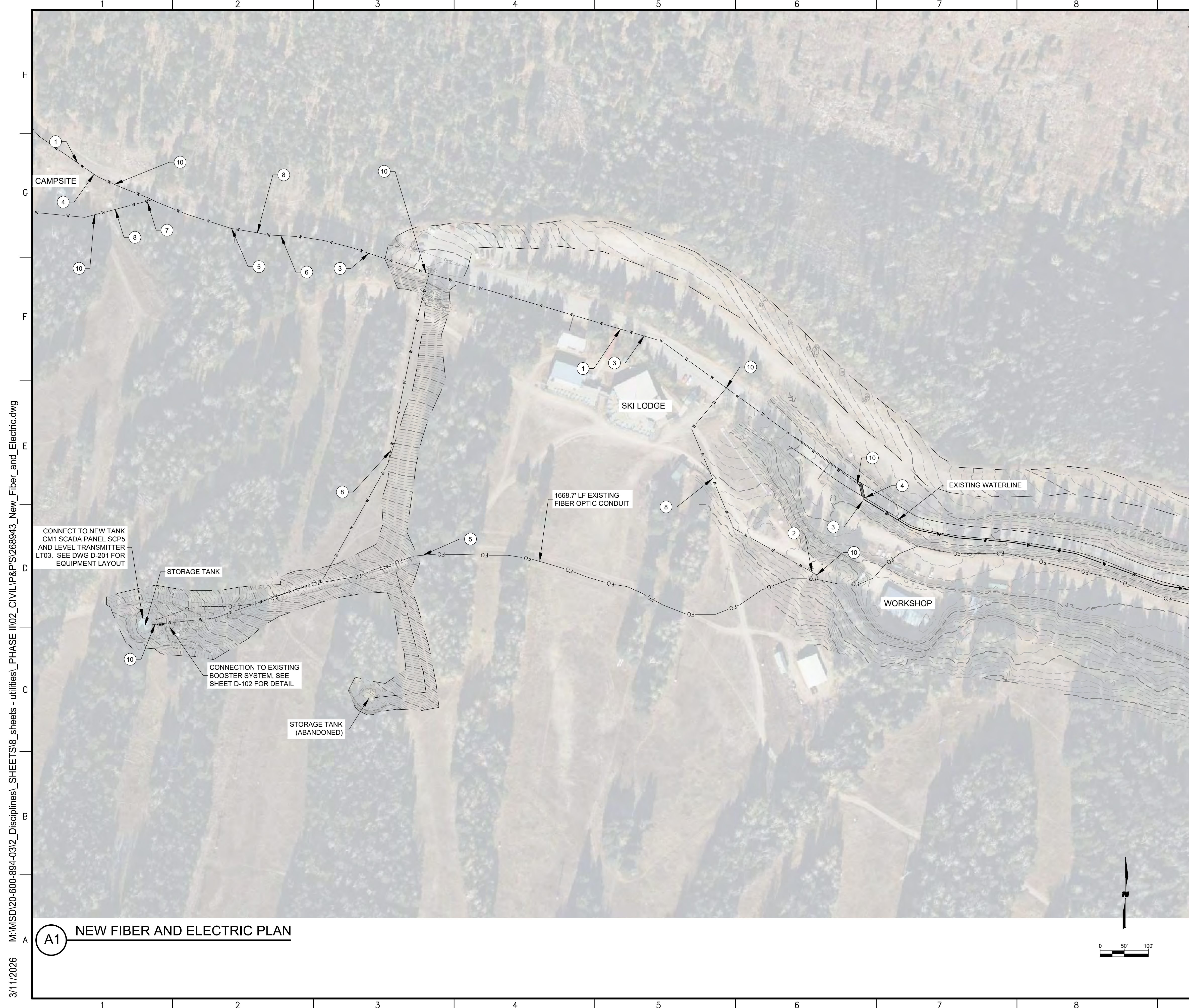
REV.	DATE	DESCRIPTION	BY

PROJECT NO: 22-600-894-03  
DESIGNED BY: RMG  
DRAWN BY: STAFF  
CHECKED BY: RMG  
DATE: MARCH 2026

ELECTRICAL SEAL  
3/11/2026  
ROSS M. GABALDON  
NEW MEXICO  
PROFESSIONAL ENGINEER

**NOTICE OF EXTENDED PAYMENT PROVISION:**  
THIS CONTRACT ALLOWS THE OWNER TO MAKE PAYMENT WITHIN 45 DAYS AFTER SUBMISSION OF AN UNDISPUTED REQUEST FOR PAYMENT. (SECTION 57-28-5 B (2) NMSA 1978).

SHEET TITLE  
**BOOSTER 4 SITE GRADING AND PIPING PLAN**  
SHEET NO:  
**C-003**



**GENERAL NOTES**

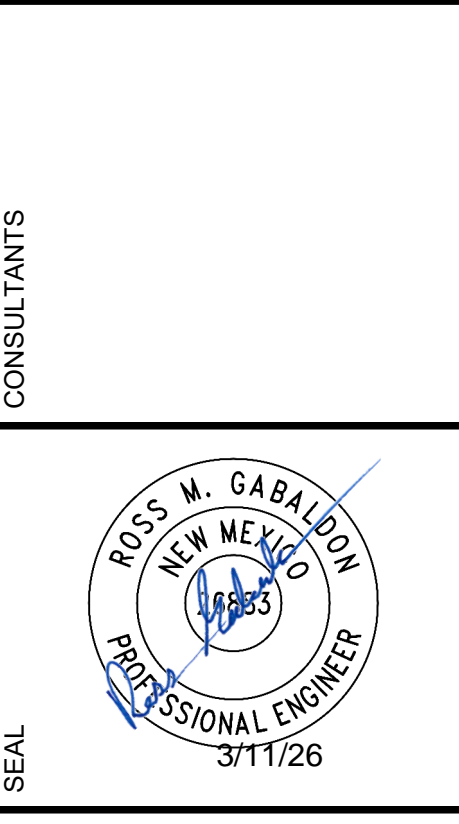
1. ALL UNDERGROUND UTILITIES SHOWN ON THIS PLAN ARE APPROXIMATE LOCATIONS. CONTRACTOR SHALL VERIFY LOCATION OF ALL UNDERGROUND UTILITIES BEFORE COMMENCING WORK.
2. MINIMUM 1.5 FT VERTICAL CLEARANCE BETWEEN PIPELINE AND EXISTING UTILITIES, OR USE LEAN FILL ASTM D-1557.
3. PROTECT EXISTING TREES AND EXISTING FENCING FROM DAMAGE, UNLESS OTHERWISE NOTED ON PLAN.
4. RESTORATION OF RIGHT OF WAY: UPON COMPLETION OF THE PIPELINE INSTALLATION WORK, ALL RUBBISH, EXCESS MATERIALS, TEMPORARY STRUCTURES AND EQUIPMENT ARE TO BE REMOVED AND THE HIGHWAY'S RIGHT OF WAY CLEANED AND RESTORED TO THE SATISFACTION OF THE CHIEF ENGINEER OR HIS AUTHORIZED REPRESENTATIVE. DISTURBED AREAS SHALL BE SEEDED OR OTHERWISE PROTECTED TO CONTROL EROSION AS SPECIFIED BY NMDOT.
5. WHERE CROSSING UNDER OVERHEAD UTILITIES, CONTRACTOR SHALL MARK UTILITIES WITH RED MARKERS AND PROTECT OVERHEAD UTILITIES FROM DAMAGE DURING CONSTRUCTION.
6. CONTRACTOR SHALL REMOVE AND RESET ALL EXISTING ROADWAY SIGNS THAT ARE DISTURBED DURING CONSTRUCTION.
7. ALL STORM DRAIN CROSSINGS ARE TO BE RESTORED TO ORIGINAL CONDITION OR BETTER. ANY STORM DRAIN CROSSINGS DAMAGED DURING CONSTRUCTION ARE TO BE REPLACED BY THE CONTRACTOR, AND ARE INCIDENTAL TO THE CONTRACT.
8. WHERE IDENTIFIED IN THE PLAN, CONTRACTOR SHALL DEFLECT PIPING AS NECESSARY IN ACCORDANCE WITH HDPE PIPING MANUFACTURERS RECOMMENDATION FOR SPECIFIC PIPE DIAMETER AND PRESSURE CLASS.
9. HDPE PIPE AND FITTINGS SHALL BE HDPE 4710, DIPS, OF SIZE AND DIMENSION RATIO (DR) SHALL MATCH EXISTING PIPE. FITTINGS SHALL BE OF THE SAME EQUIVALENT PRESSURE CLASS AS ASSOCIATED PIPE, REGARDLESS OF DIMENSION RATIO. WHERE THERE IS A DISCREPANCY ON THE PLANS, THE HIGHEST PRESSURE CLASS SHALL GOVERN.

**KEYNOTES**

1. INSTALL NEW 2" METER AND BOX, CIP. CONTRACTOR TO LOCATE IN FIELD
2. INSTALL NEW 1" METER AND BOX, CIP. CONTRACTOR TO LOCATE IN FIELD
3. ELECTRIC PULL BOX AND FIBER OPTIC PULL BOX, SEE DTL SHEET C-502
4. CONNECT EXISTING NON-POTABLE WATER LINE TO NEW TRANSMISSION LINE, PRIOR TO CONNECTION, CONTRACTOR SHALL CLEAN, AND DISINFECT EXISTING LINE PER SPECIFICATION SECTION 33 0601
5. FIBER OPTIC CONDUIT, SEE ELECTRICAL
6. ELECTRICAL CONDUIT, SEE ELECTRICAL
7. CUT AND CAP EXISTING 10" WATER LINE, CONTRACTOR TO LOCATE IN FIELD
8. 3197 LF OF EXISTING NON-POTABLE WATER LINE. CONTRACTOR SHALL CLEAN AND DISINFECT EXISTING WATERLINE. CONTRACTOR SHALL CLEAN EXISTING LINE VIA MECHANICAL ABRASION, VERIFY CLEANING AND PIPELINE VIA CAMERA INSPECTION, AND DISINFECT LINE WITH LIQUID CHLORINE. POTENTIAL TEMPORARY PIGGINS STATIONS ARE IDENTIFIED ON THE MAP. PRIOR TO CONNECTION TO THE POTABLE WATER SOURCE, ENGINEER SHALL REVIEW ALL CAMERA FOOTAGE AND VERIFY ACCEPTABILITY OF PIPE CONDITION. DISINFECTION PLAN SHALL BE SUBMITTED TO ENGINEER AND DRINKING WATER BUREAU FOR REVIEW - TYPICAL REVIEW PERIOD FOR DRINKING WATER BUREAU IS 30 DAYS
9. INSTALL TEMPORARY PIGGING/CAMERA STATION

**NOTICE OF EXTENDED PAYMENT PROVISION:**  
 THIS CONTRACT ALLOWS THE OWNER TO MAKE PAYMENT WITHIN 45 DAYS AFTER SUBMISSION OF AN UNDISPUTED REQUEST FOR PAYMENT. (SECTION 57-28-5 B (2) NMSA 1978).

**WILSON & COMPANY**  
 2600 THE AMERICAN RD. SE SUITE 100  
 RIO RANCHO, NM 87124  
 PHONE: 505-898-8021  
 FAX: 505-898-8501  
 www.wilsonco.com



**PROJECT NAME**  
 LAC JEMEZ MOUNTAIN  
 REGIONAL FIRE  
 PROTECTION SYSTEM  
 PHASE 1

REV.	DATE	DESCRIPTION	BY

PROJECT NO: 20-600-894-03  
 DESIGNED BY: BJA  
 DRAWN BY: STAFF  
 CHECKED BY: BJA  
 DATE: JUNE 2024

SHEET TITLE  
 SKI AREA WATER  
 AND FO SERVICE  
 MAP

SHEET NO:  
**C-004**

M:\MSD\20-600-894-03\2\_Disciplines\_SHEETS\8\_sheets - utilities\_PHASE I\02\_CIVIL\IP&P\268943\_New\_Fiber\_and\_Electric.dwg  
 3/11/2026 Attachment A

**A1** NEW FIBER AND ELECTRIC PLAN

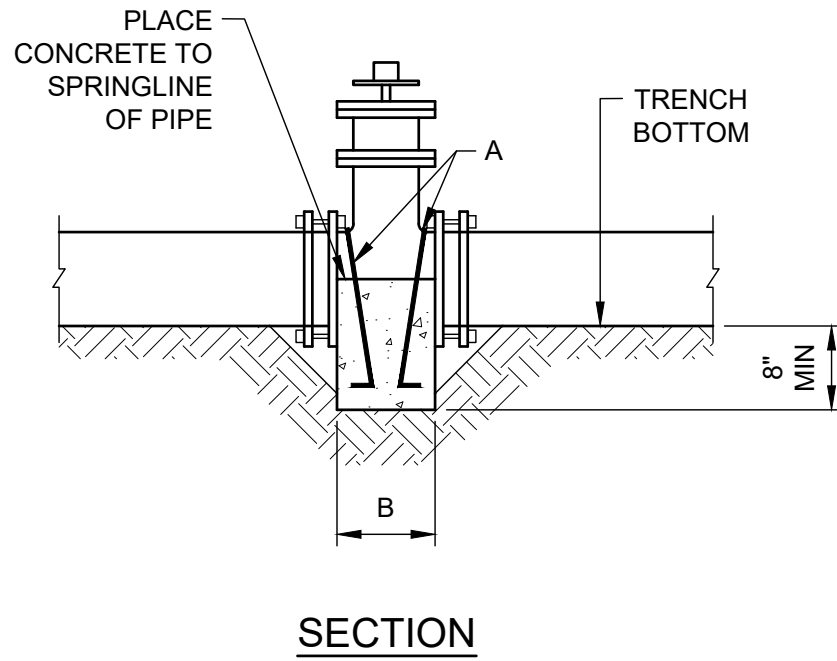
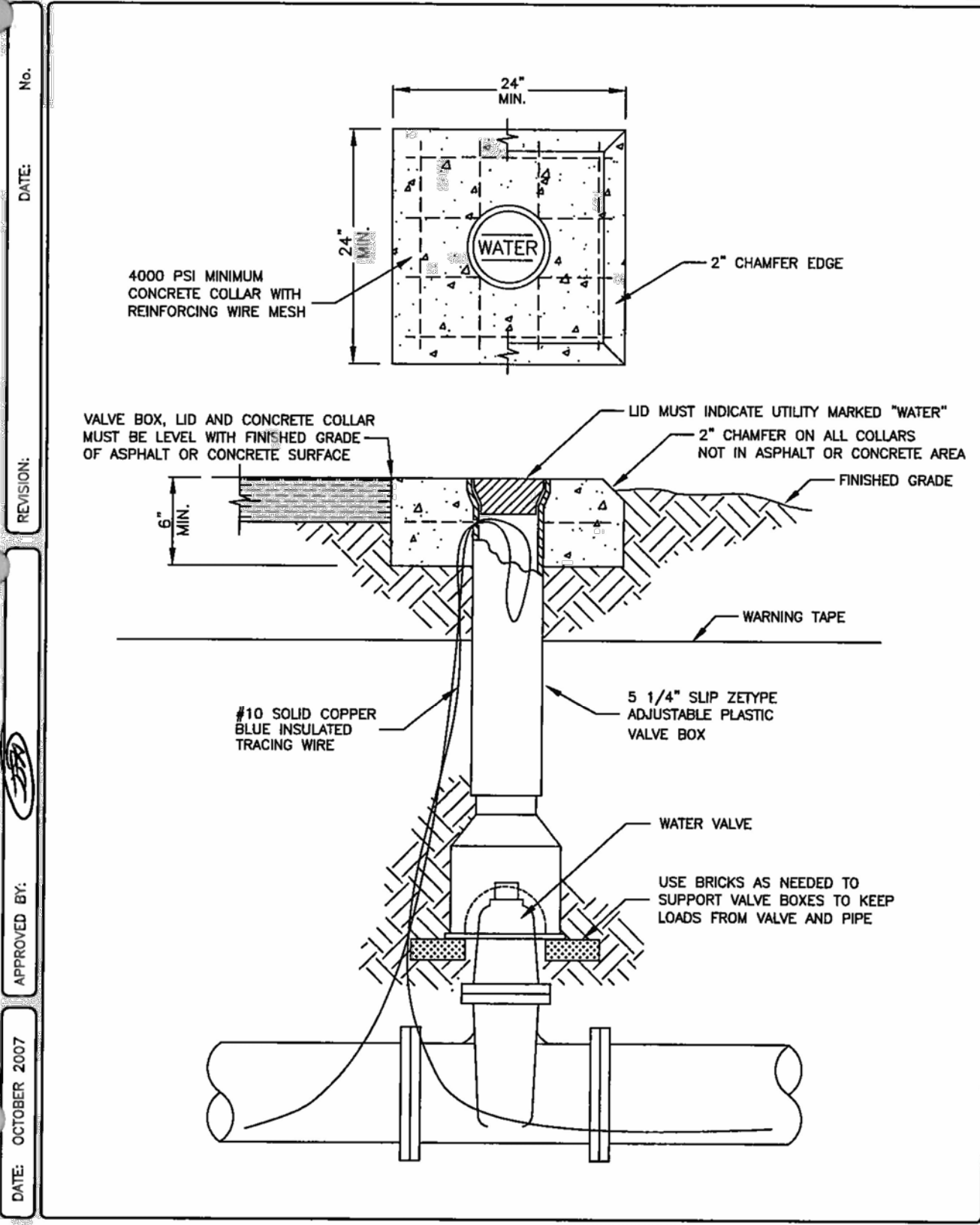


DEPARTMENT OF PUBLIC UTILITIES  
LOS ALAMOS COUNTY  
LOS ALAMOS, NEW MEXICO

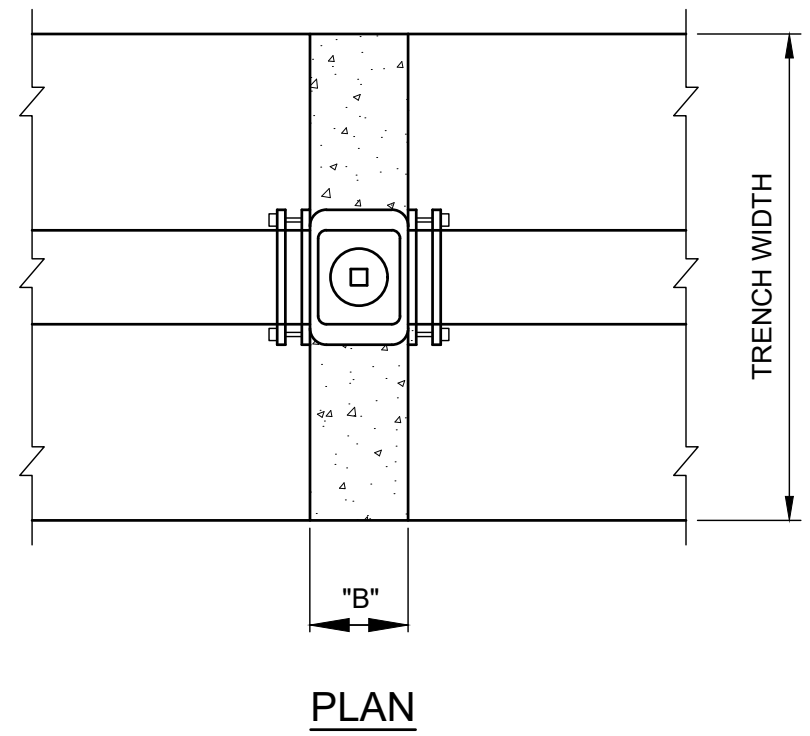
UTILITY CONSTRUCTION STANDARDS - WATER

**WATER VALVE BOX**

SECTION 6000  
6013



- GENERAL NOTES:**
1. THE ENGINEER SHALL PROVIDE DESIGN FOR ALL VALVES GREATER THAN 12" AND BUTTERFLY VALVES.
  2. ALL THRUST CONTROL BY RESTRAINED JOINTS ONLY UNLESS OTHERWISE DIRECTED BY ENGINEER.
  3. USE FOR VALVE INSERTION INTO EXISTING LINES ONLY.
  4. CONCRETE USED FOR VALVE ANCHORAGE PER SEC. 101 HYDRAULIC STRUCTURAL CONCRETE,  $f_c=3000$  psi @ 28 DAYS.
  5. ALL JOINTS ARE TO BE MECHANICALLY RESTRAINED. THE MINIMUM RESTRAINED JOINT LENGTH SHALL BE 5 FEET ON EITHER SIDE OF THE VALVE.
  6. NOT NEEDED FOR E-Z VALVE OR OTHER VALVE INSERTION THAT DOES NOT CUT THROUGH THE ENTIRE SECTION OF PIPE.
  7. BEFORE THE WORK WILL BE ACCEPTED, WATER VALVE GPS COORDINATES SHALL BE PROVIDED ON THE RECORD DRAWINGS. GPS COORDINATES OBTAINED BY A PROFESSIONAL SURVEYOR LICENSED IN THE STATE OF NEW MEXICO SHALL BE TAKEN AT THE VALVE OPERATING NUT. USE THE NAD 1983 NM STATE PLANE CENTRAL ZONE FOR X AND Y COORDINATES AND NAVD 1988 FOR Z COORDINATE.



- CONSTRUCTION NOTES:**
- A. TWO NO. 4 BARS FOR VALVE STRAPS WITH 3" HOOKS. HOOKS TO BE EMBEDDED BELOW BOTTOM OF PIPE BARS TO BE COATED WITH BITUMINOUS MATERIAL TO PREVENT CORROSION.

PIPE SIZE	DIM. B
6"	8"
8"	9"
10"	10"
12"	10"

**E4 WATER VALVE ANCHORAGE**  
NOT TO SCALE

NOTE:  
USE CONCRETE ANCHORAGE ONLY UPON APPROVAL OF THE COUNTY.

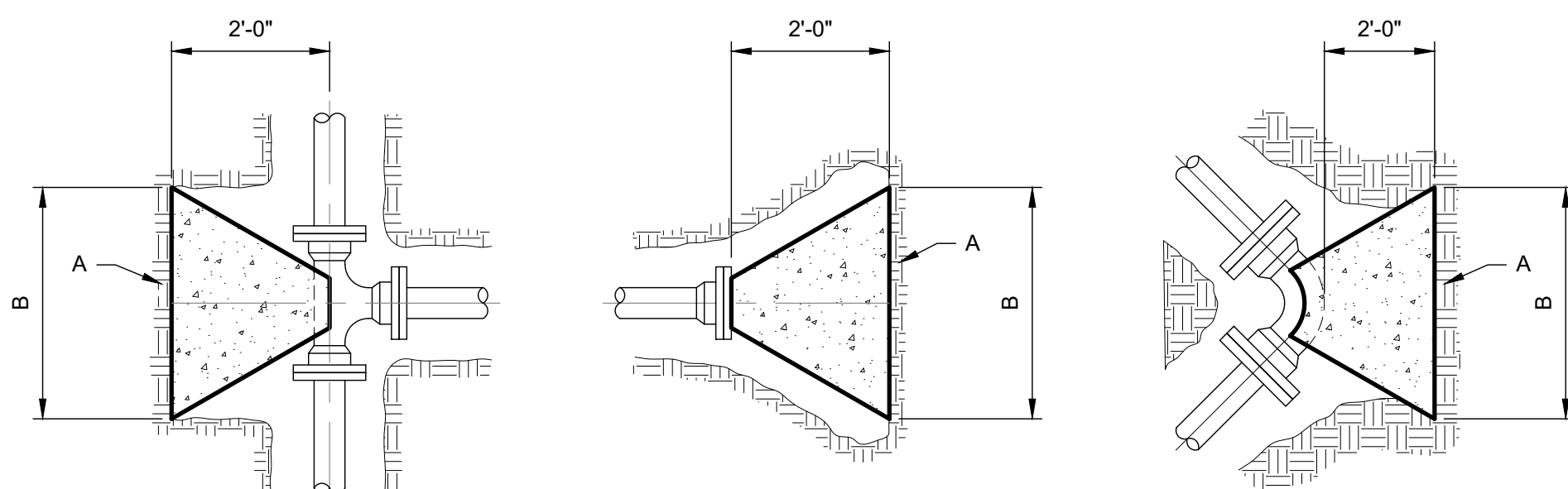
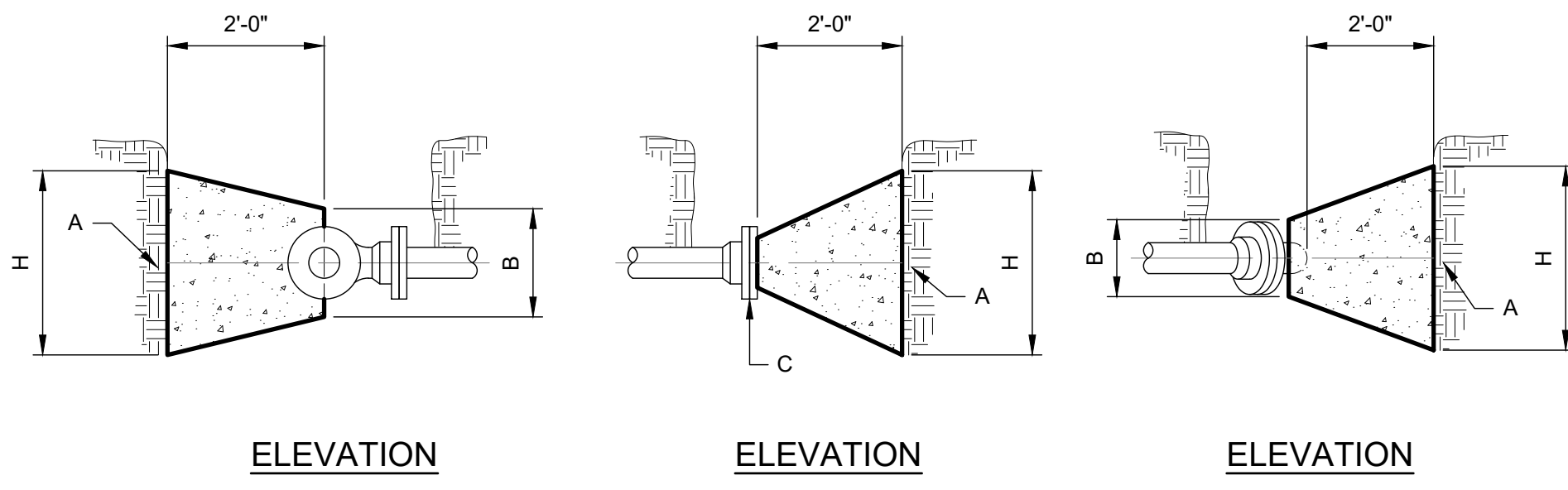
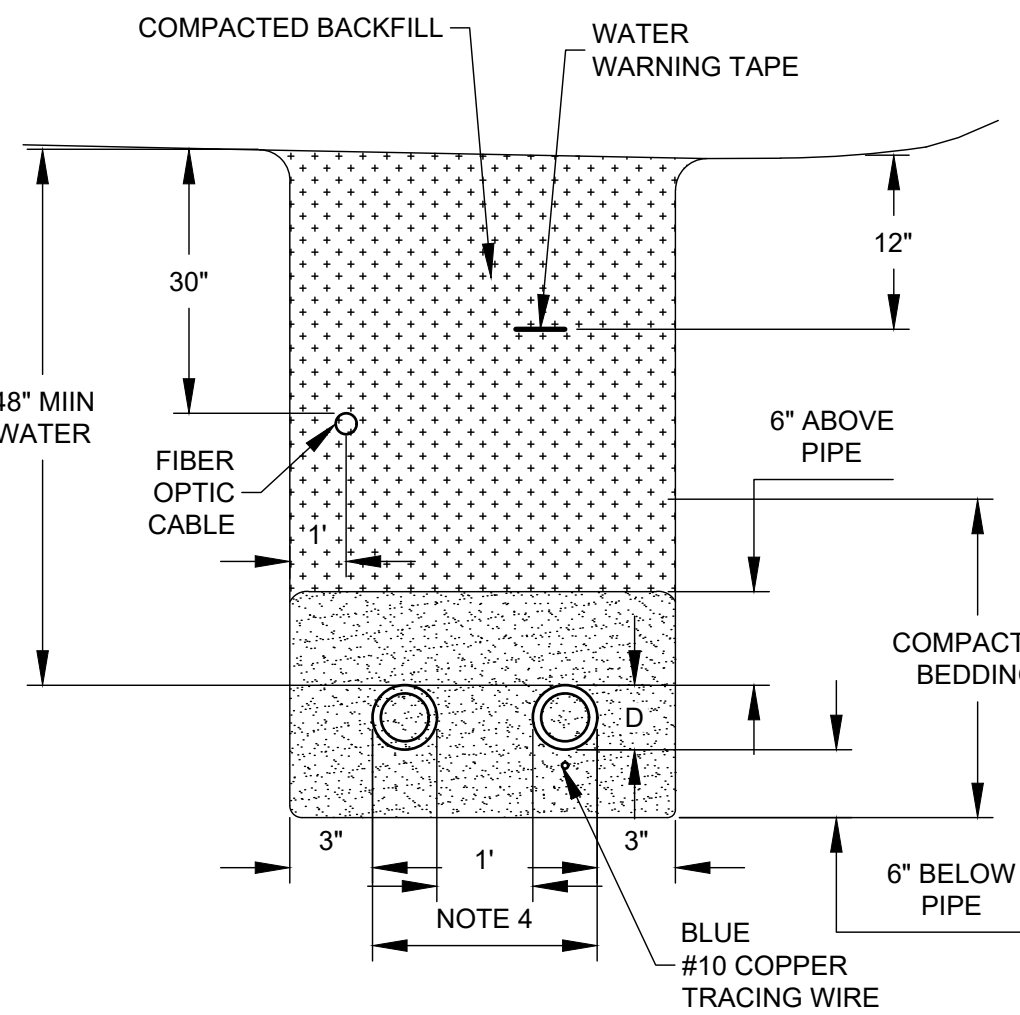
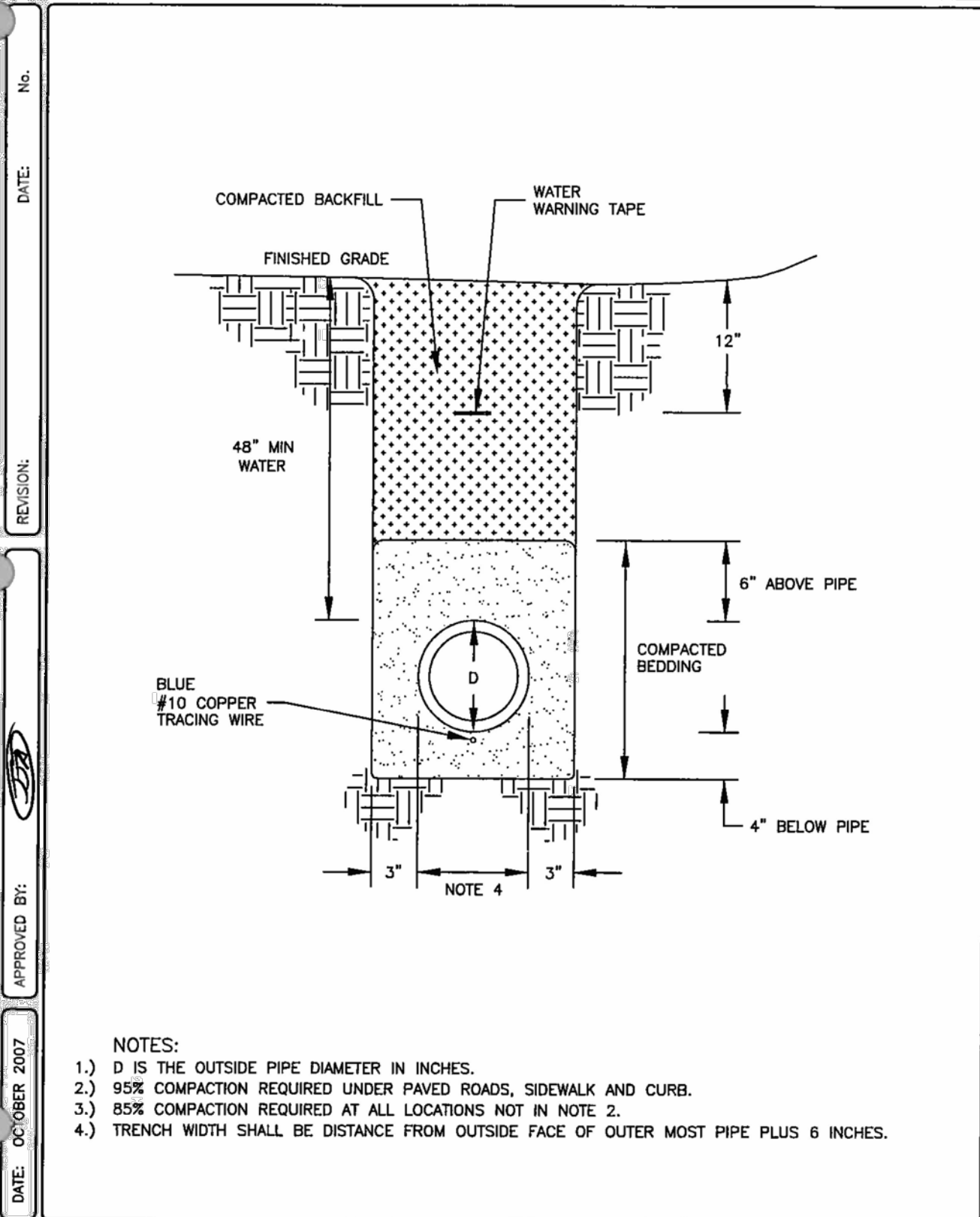
TYPICAL: USE MECHANICAL JOINT RESTRAINT WITH STAINLESS STEEL (SS) FASTENERS.

DEPARTMENT OF PUBLIC UTILITIES  
LOS ALAMOS COUNTY  
LOS ALAMOS, NEW MEXICO

UTILITY CONSTRUCTION STANDARDS - WATER

**WATER MAIN TRENCH DETAIL**

SECTION 6000  
6009



- NOTES:**
1. D IS THE OUTSIDE PIPE DIAMETER IN INCHES.
  2. 95% COMPACTION REQUIRED UNDER PAVED ROADS, SIDEWALK AND CURB.
  3. 85% COMPACTION REQUIRED AT ALL LOCATIONS NOT IN NOTE 2.
  4. TRENCH WIDTH SHALL BE DISTANCE FROM OUTSIDE FACE OF OUTER MOST PIPE PLUS 6 INCHES.
- A4 WATER MAIN AND FIBER OPTIC TRENCH DETAIL**  
NOT TO SCALE
- NOTE: SEE ALSO TOP PAVING DETAILS ON SHEET CU-504.

**A6 CONCRETE BLOCKING**  
NOT TO SCALE

NOTE:  
USE CONCRETE THRUST BLOCK ONLY UPON APPROVAL OF THE COUNTY.

**PRESSURE PIPE RESTRAINED JOINT LENGTH REQUIREMENTS-THIS PROJECT ONLY**

LENGTHS OF PIPE TO BE RESTRAINED IN FEET  
(APPLIES TO DI AND PVC)

TEST PRESSURE (PSI)	PIPE SIZE	FITTING TYPE					VERTICAL BEND							
		90° BEND	45° BEND	22 1/2° BEND	11 1/4° BEND	TEE (2)	FIRE HYDRANT TEE (3)	DEAD END OR VALVE (4)	45°		22 1/2°		11 1/4°	
									UPPER BEND RESTRAINT	LOWER BEND RESTRAINT	UPPER BEND RESTRAINT	LOWER BEND RESTRAINT	UPPER BEND RESTRAINT	LOWER BEND RESTRAINT
300	6" (1)(6)(9)	38'	16'	8'	4'	1'	FOR ALL PIPE MAIN LINE SIZES, ALL FITTINGS AND PIPE JOINTS FROM TEE TO FIRE HYDRANT FLANGE SHALL BE RESTRAINED	84'	35'	16'	17'	8'	9'	4'
300	6" (1)(7)(9)	31'	13'	6'	3'	1'		54'	23'	13'	11'	6'	6'	3'
150	8" (6)(6)	25'	11'	5'	3'	1'		55'	23'	11'	11'	5'	6'	3'
150	12" (6)(6)	35'	15'	7'	4'	1'	78'	33'	15'	16'	7'	8'	4'	

- (1) ASSUMES MINIMUM DEPTH OF BURY = 4 FT.  
(2) ASSUMES MINIMUM FULL PIPE JOINT LENGTH ON EITHER SIDE OF TEE RUN (L<sub>t</sub>) IS 20 FT.  
(3) ASSUMES BRANCH AND RUN PIPE DIAMETERS ARE EQUAL.  
(4) ASSUMES MINIMUM FULL PIPE JOINT LENGTH ON EITHER SIDE OF TEE RUN (L<sub>t</sub>) IS 20 FT.  
(5) ASSUMES TEE RUN PIPE DIAMETER IS EQUAL TO PIPE SIZE AND BRANCH PIPE DIAMETER IS 6 INCHES.  
(6) RESTRAINED LENGTH FOR VALVES SHALL BE PROVIDED ON BOTH SIDES OF VALVE.  
(7) WHERE POSSIBLE, CONTRACTOR SHALL INSTALL FULL 20-FT JOINT OF PIPE ON EITHER SIDE OF ALL MECHANICAL JOINT VALVES, FITTINGS, AND APPURTENANCES. FOR ALL CIRCUMSTANCES WHERE A 20-FT JOINT CAN BE UTILIZED AND THE CONTRACTOR ELECTS TO USE A SHORTER PIPE JOINT, CONTRACTOR SHALL PROVIDE, AT CONTRACTOR'S SOLE EXPENSE, ALL NECESSARY JOINT RESTRAINTS REQUIRED BY TABLE ABOVE. NUMBER OR WEIGHT OF EXTRA JOINT RESTRAINTS SHALL NOT BE INCLUDED IN MEASUREMENT NOR PAYMENT.  
(8) PVC  
(9) DUCTILE IRON  
(10) TEST PRESSURE = 150 PSI  
(11) TEST PRESSURE = 300 PSI

**THRUST RESTRAINT NOTE:**  
ALL BURIED VALVES, FITTINGS, AND APPURTENANCES SHALL BE MECHANICAL JOINT-TYPE UTILIZING "MEGA-LUG"® STYLE MECHANICAL JOINT RESTRAINTS IN CONJUNCTION WITH "MEGA-LUG"® PIPE BELL-HARNES RESTRAINTS WHEN ADEQUATE RESTRAINED LENGTH CAN BE OBTAINED. IN THE EVENT ADEQUATE RESTRAINED LENGTHS CANNOT BE OBTAINED, CONTRACTOR SHALL IMMEDIATELY CONTACT ENGINEER FOR DETERMINATION OF APPROPRIATE ACTION TO BE TAKEN. THE EBAA IRON "RESTRAINED LENGTH CALCULATION" PROGRAM (VERSION 6.3) HAS BEEN USED TO DETERMINE MINIMUM RESTRAINED LENGTHS SHOWN IN TABLE ABOVE. THE FOLLOWING GENERAL ASSUMPTIONS APPLY TO ALL CALCULATIONS:

TRENCH TYPE 3  
SOIL TYPE SM (SILTY SANDS, SAND SILT MIXTURE)  
SAFETY FACTOR 1.5 TO 1

TYPICAL BURY DEPTH:  
6" THROUGH 18" DIAMETER PIPE 4 FT MINIMUM

TYPICAL BURY DEPTHS FOR VERTICAL OFFSETS:  
6" THROUGH 18" DIAMETER PIPE 4 FT TO TOP OF UPPER BRANCH  
4 FT TO TOP OF LOWER BRANCH

CONTRACTOR MAY SUBMIT SUBSTITUTE REDUCED RESTRAINED JOINT LENGTHS IF SOIL AND DEPTH OF BURY CONDITIONS WARRANT. CONTRACTOR SHALL PROVIDE SOIL TEST RESULTS AND APPROPRIATE CALCULATIONS TO SUPPORT THE LENGTH REDUCTION. SOIL TESTING AND CALCULATIONS SHALL BE PERFORMED AT CONTRACTOR'S SOLE EXPENSE.

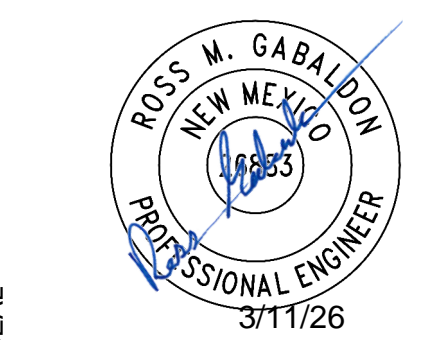
- GENERAL NOTES:**
1. ALL THRUST CONTROL BY RESTRAINED JOINTS ONLY UNLESS DIRECTED BY ENGINEER, AND FOR "SPECIAL" SITUATIONS SPECIFIED BY THE LAC UTILITY DIVISION.
  2. PIPE SIZE GREATER THAN 14" Ø REQUIRES DESIGN BY ENGINEER TO BE SUBMITTED TO THE LAC UTILITY DIVISION FOR APPROVAL.
  3. CONCRETE BLOCKING PER SEC. 101 EXTERIOR CONCRETE,  $f_c=3000$  psi @ 28 DAYS.

PIPE SIZE	ELBOW ANGLE	ELBOW (B) DIM.	ELBOW (A) DIM.	TEE OR PLUG (B) DIM.	TEE OR PLUG (H) DIM.
4"				2'	1'
4"	90° 45°	2'	2'		
4"	22.5° 11.25°	2'	2'		
6"				2'	2'
6"	90° 45°	2'	2'		
6"	22.5° 11.25°	2'	2'		
8"				3'	3'
8"	90°	3'	3'		
8"	45°	2'	2'		
8"	22.5° 11.25°	2'	2'		
10"				3'	3'
10"	90°	3'-6"	3'-6"		
10"	45°	3'	3'		
10"	22.5° 11.25°	2'	2'		
12"				3'-6"	3'-6"
12"	90°	4'	4'		
12"	45°	3'-6"	3'-6"		
12"	22.5° 11.25°	2'	2'		
14"				4'	4'
14"	90°	5'	5'		
14"	45°	3'-6"	3'-6"		
14"	22.5° 11.25°	3'	3'		

- CONSTRUCTION NOTES:**
- A. UNDISTURBED EARTH.
  - B. OD OF PIPE + 8".
  - C. OD OF CAP OR PLUG, MIN 12"x12".
  - D. USE ONLY FOR EXCEPTIONAL SITUATIONS. USE OF MECHANICAL RESTRAINTS TAKES PRECEDENCE.

**NOTICE OF EXTENDED PAYMENT PROVISION:**  
THIS CONTRACT ALLOWS THE OWNER TO MAKE PAYMENT WITHIN 45 DAYS AFTER SUBMISSION OF AN UNDISPUTED REQUEST FOR PAYMENT. (SECTION 57-28-5 B (2) NMSA 1978).

**WILSON & COMPANY**  
2600 THE AMERICAN RD. SE SUITE 100  
RIO RANCHO, NM 87124  
PHONE: 505-898-8021  
FAX: 505-898-8501  
www.wilsonco.com



LAC JEMEZ MOUNTAIN  
REGIONAL FIRE  
PROTECTION SYSTEM  
PHASE 3

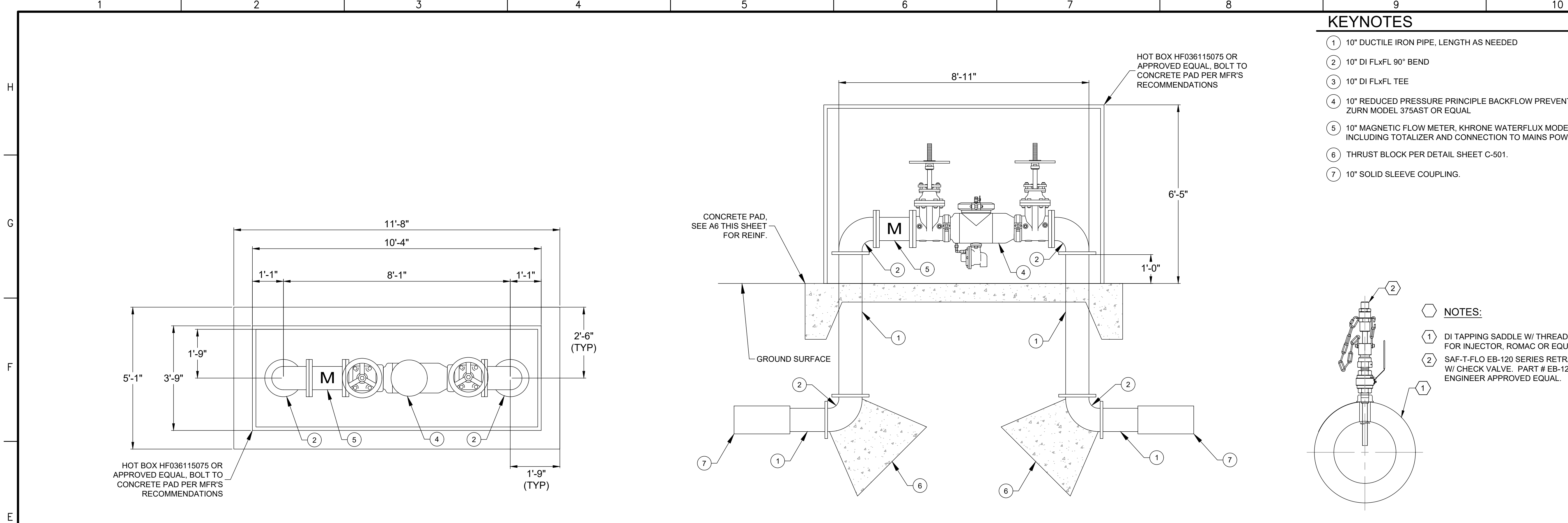
NO.	REVISION	DATE	DESCRIPTION

PROJECT NO: 22-600-894-03  
DESIGNED BY: RMG  
DRAWN BY: STAFF  
CHECKED BY: RMG  
DATE: MARCH 2026  
SHEET TITLE

MISCELLANEOUS  
DETAILS

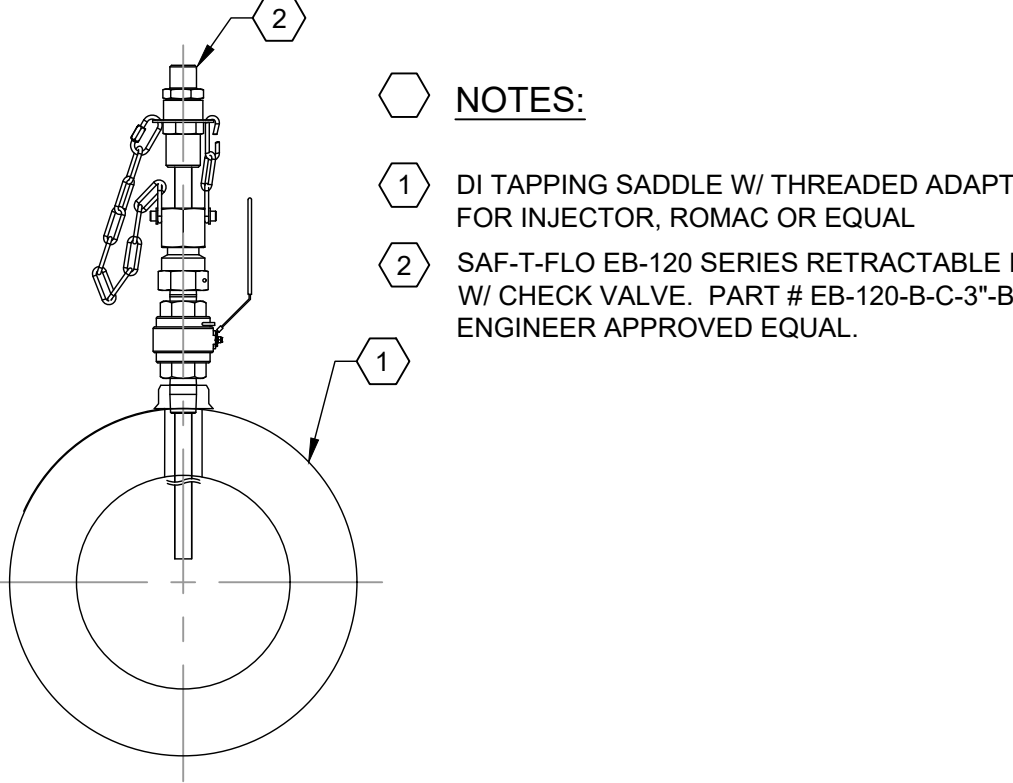
SHEET NO: **C-501**

3/11/2026 M:\MSD\20-600-894-03\2\_Disciplines\_SHEETS\8\_sheets - utilities\_PHASE III\03\_TYP\268943\_C-501-C-502.dwg



**KEYNOTES**

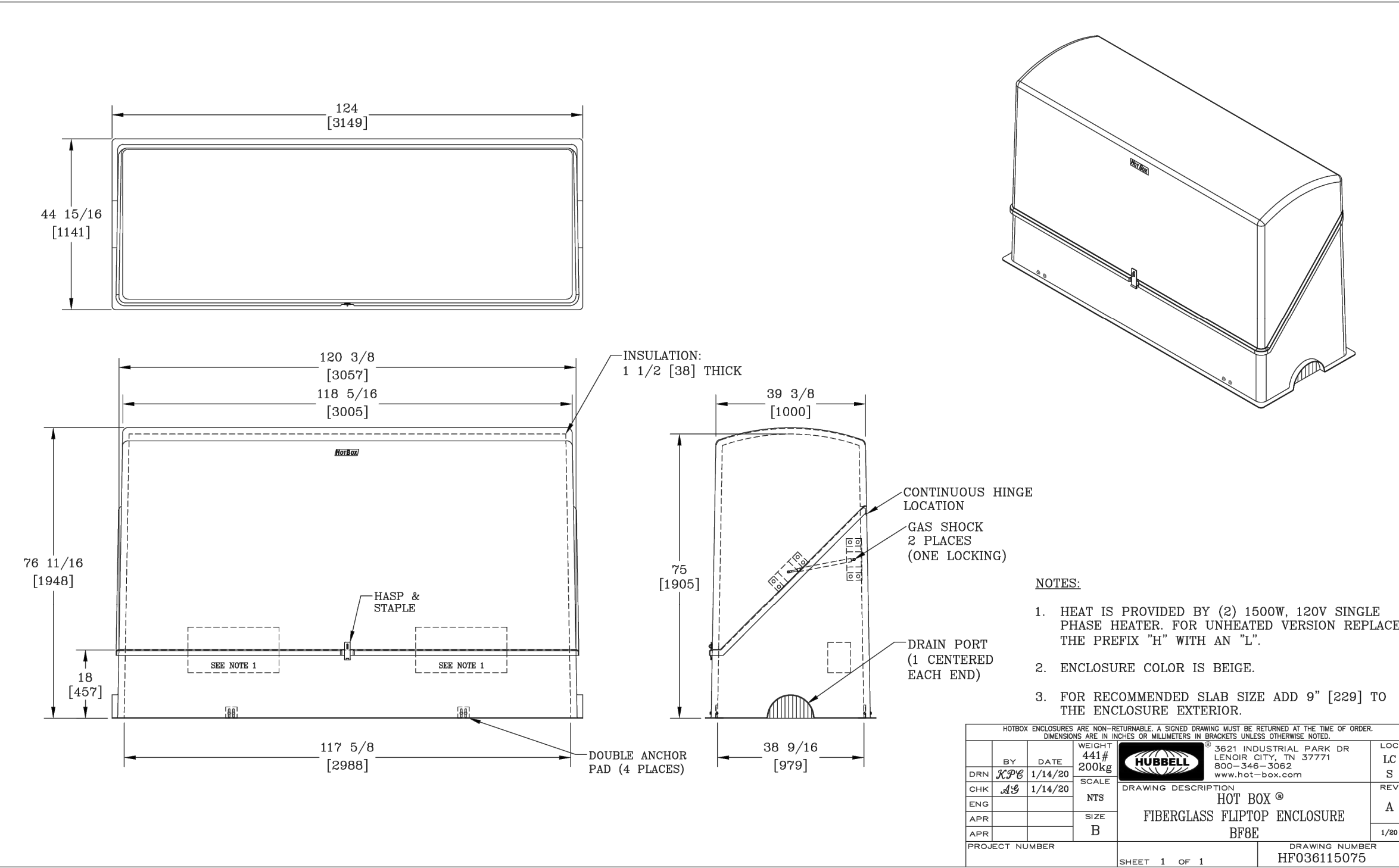
- 1 10" DUCTILE IRON PIPE, LENGTH AS NEEDED
- 2 10" DI FLXFL 90° BEND
- 3 10" DI FLXFL TEE
- 4 10" REDUCED PRESSURE PRINCIPLE BACKFLOW PREVENTER ZURN MODEL 375AST OR EQUAL
- 5 10" MAGNETIC FLOW METER, KHRONE WATERFLUX MODEL 3300, INCLUDING TOTALIZER AND CONNECTION TO MAINS POWER, CIP.
- 6 THRUST BLOCK PER DETAIL SHEET C-501.
- 7 10" SOLID SLEEVE COUPLING.



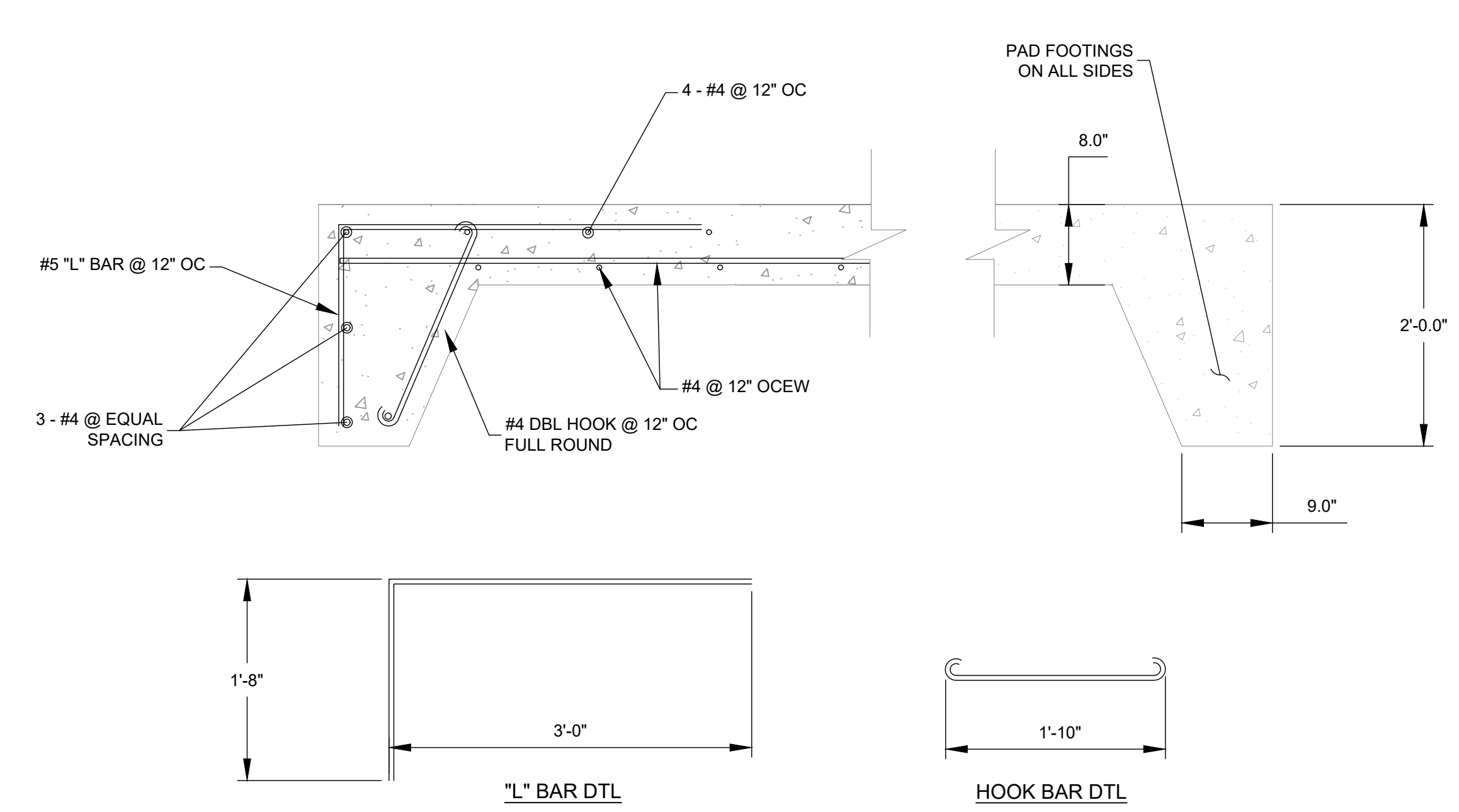
**E1 PLAN**  
SCALE: 1" = 2'

**E5 SECTION**  
SCALE: 1" = 2'

**E9 INJECTION W/ SPACER DETAIL**  
NOT TO SCALE



**A1 HOT BOX DETAIL**  
SCALE: NTS



**A6 TYPICAL PAD REINFORCEMENT DTL (ALL PADS)**  
SCALE: 1" = 1'

NOTE: THE BASIS OF THE DESIGN FOR THIS HOT BOX IS HOT BOX (R) FIBERGLASS FLIPTOP ENCLOSURE BF8E, DWG #HF036115075 BY HUBBELL. ENGINEER APPROVED EQUAL MAY BE CONSIDERED PROVIDED THE DIMENSIONS, FUNCTIONALITY, AND MATERIAL QUALITY ARE EQUAL TO OR GREATER THAN THE BASIS OF DESIGN.

**NOTICE OF EXTENDED PAYMENT PROVISION:**  
THIS CONTRACT ALLOWS THE OWNER TO MAKE PAYMENT WITHIN 45 DAYS AFTER SUBMISSION OF AN UNDISPUTED REQUEST FOR PAYMENT. (SECTION 57-28-5 B (2) NMSA 1978).

**WILSON & COMPANY**  
2600 THE AMERICAN RD. SE SUITE 100  
RIO RANCHO, NM 87124  
PHONE: 505-898-8021  
FAX: 505-898-8501  
www.wilsonco.com

CONSULTANTS  
**ROSS M. GABALDON**  
NEW MEXICO  
PROFESSIONAL ENGINEER  
3/11/26

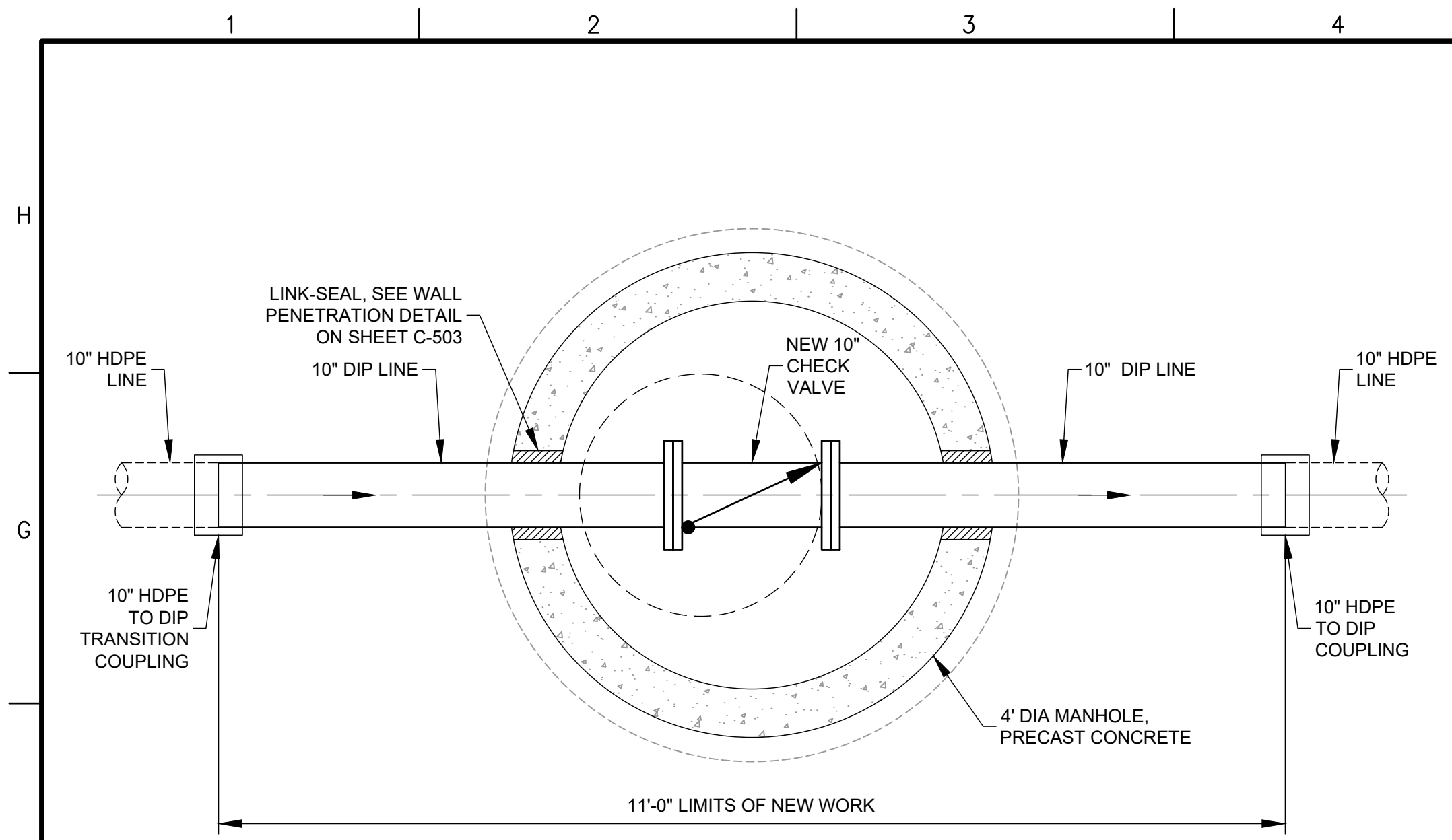
PROJECT NAME  
**LAC JEMEZ MOUNTAIN  
REGIONAL FIRE  
PROTECTION SYSTEM  
PHASE 3**

REV.	DATE	DESCRIPTION	BY

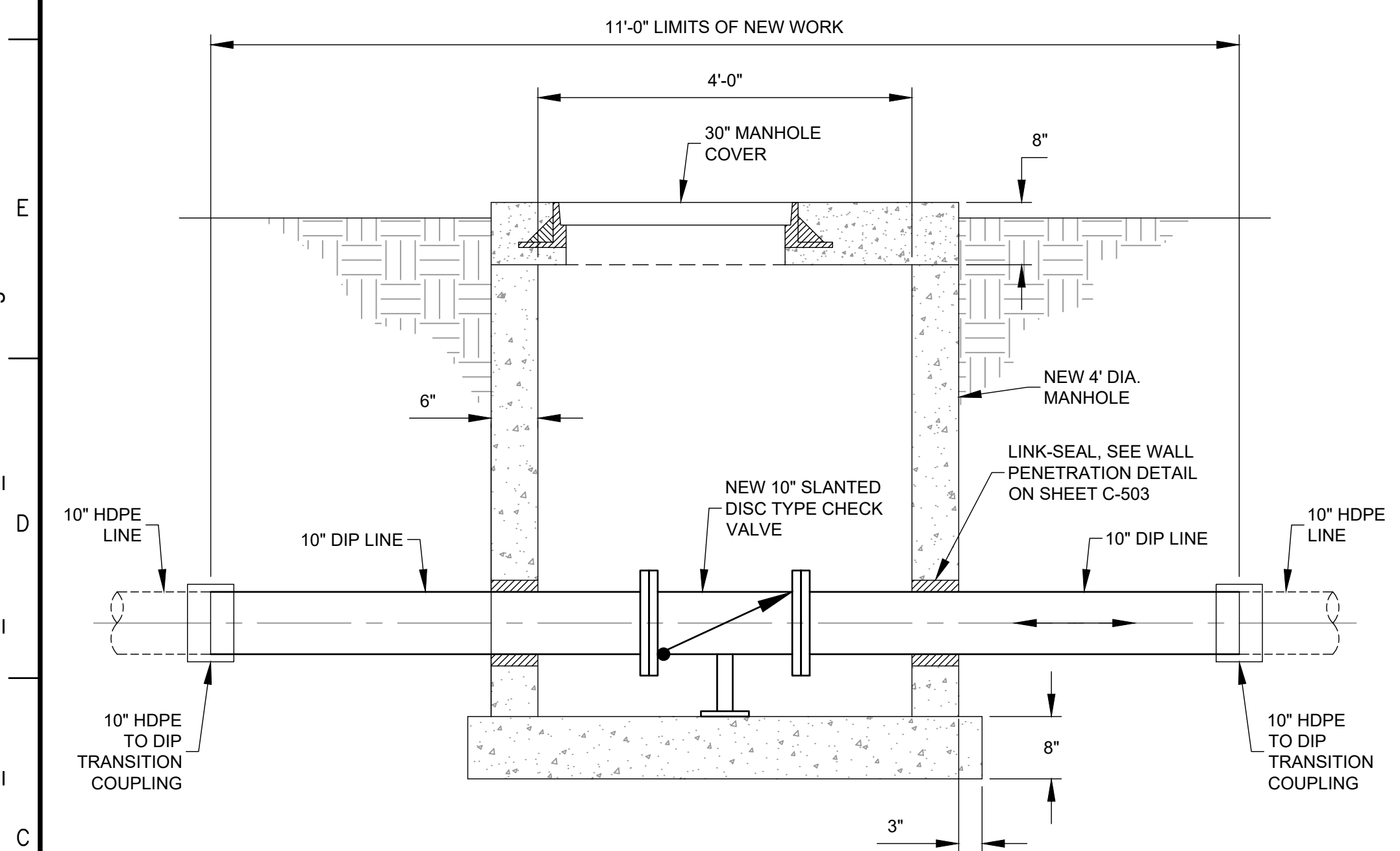
PROJECT NO: 22-600-894-03  
DESIGNED BY: RMG  
DRAWN BY: STAFF  
CHECKED BY: RMG  
DATE: MARCH 2026

SHEET TITLE  
**MISCELLANEOUS  
DETAILS**  
SHEET NO:  
**C-502**

3/11/2026 M:\MSD\20-600-894-03\2\_Disciplines\_SHEETS\8\_sheets - utilities\_PHASE III\03\_TYP\268943\_C-501-C-502.dwg

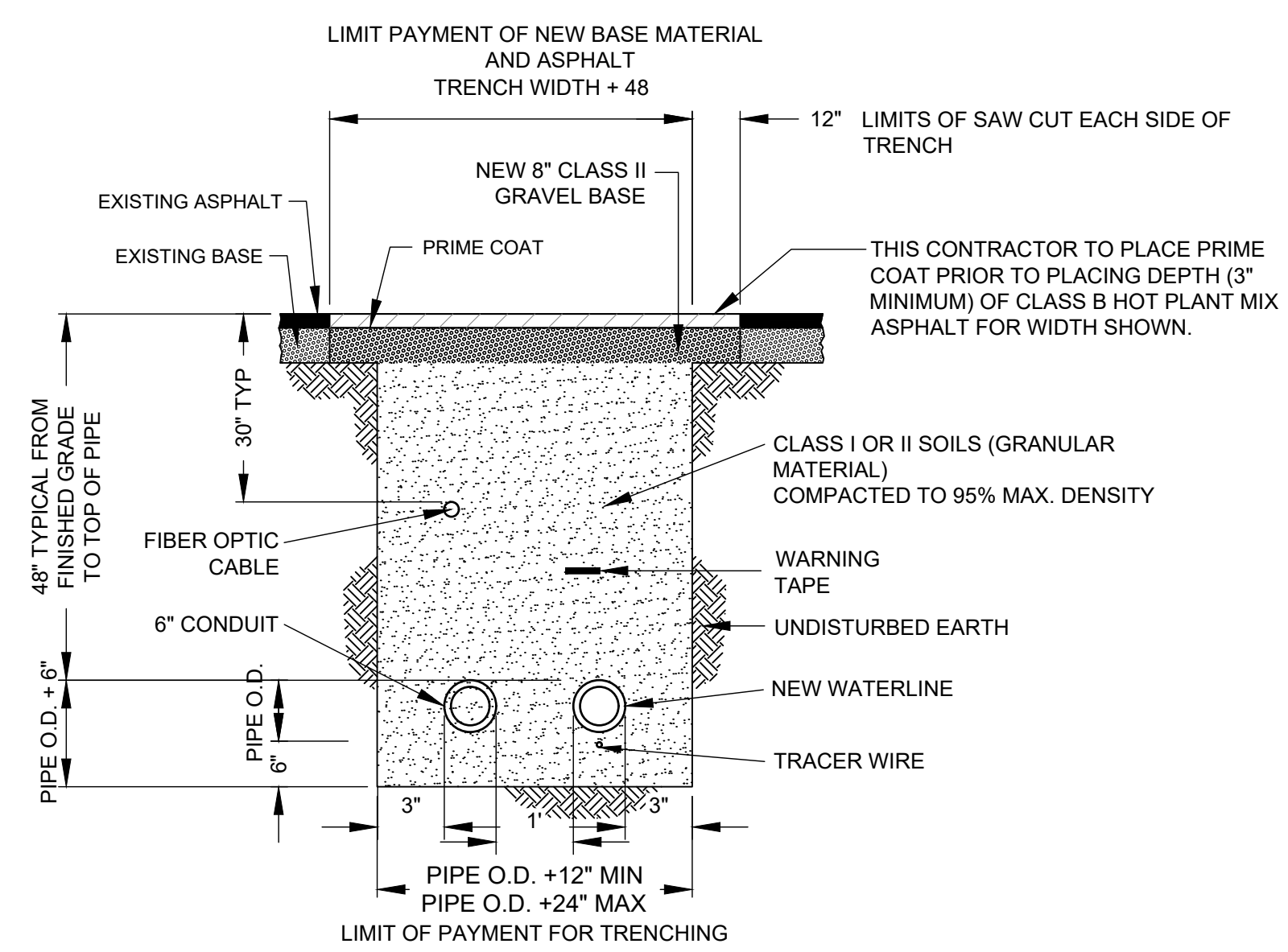


**PLAN**



**ELEVATION**

**B2 VALVE MANHOLE**  
NOT TO SCALE

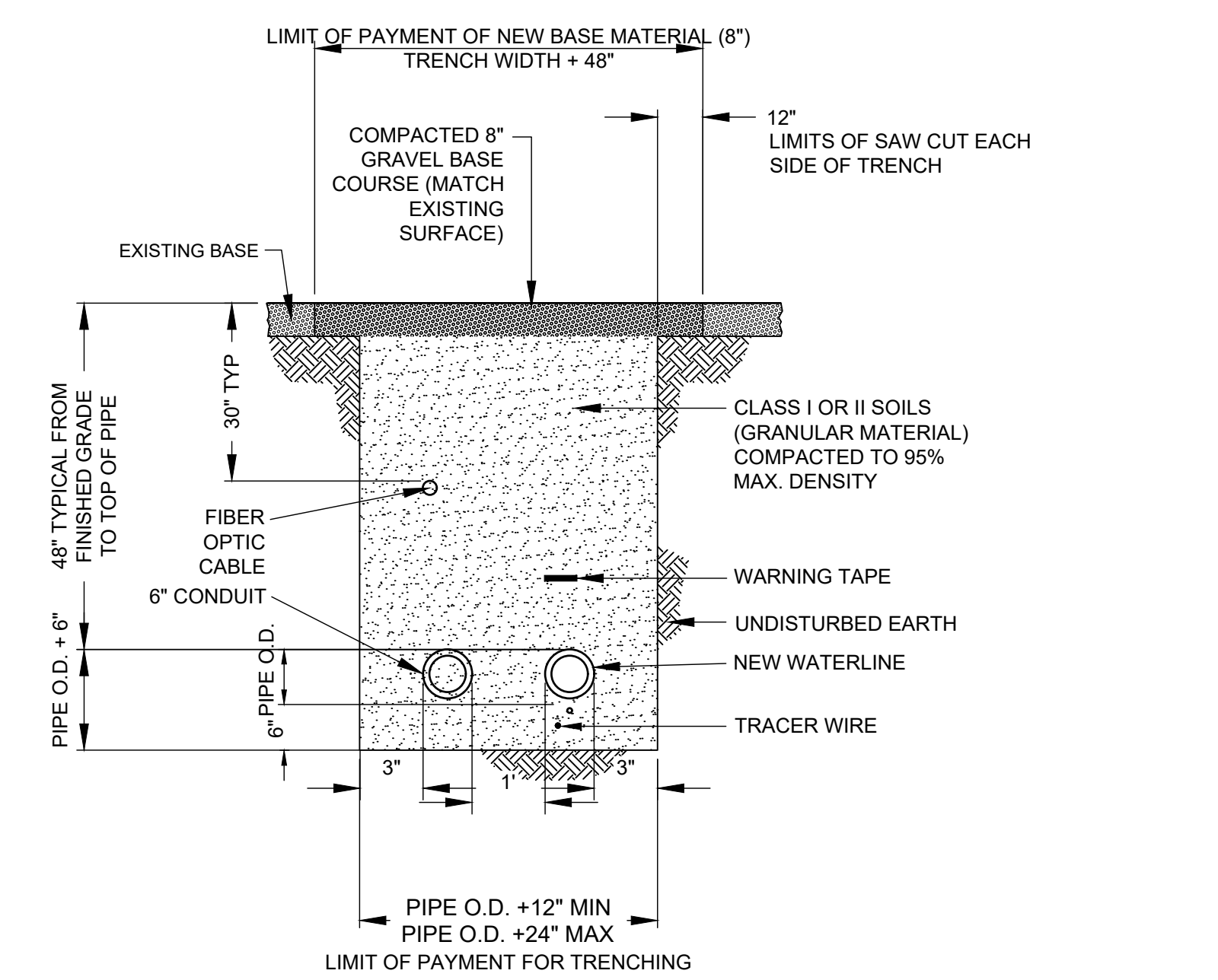


**NOTES FOR MATCHING EXISTING PAVEMENT:**

- TRENCH-WIDTH ASPHALT SHALL HAVE A MINIMUM THICKNESS OF 3", REGARDLESS OF STREET ASPHALT THICKNESS, SEE TRENCH DETAIL" AND "TYPICAL LIMITS OF RESURFACING WORK" DETAIL THIS SHEET.

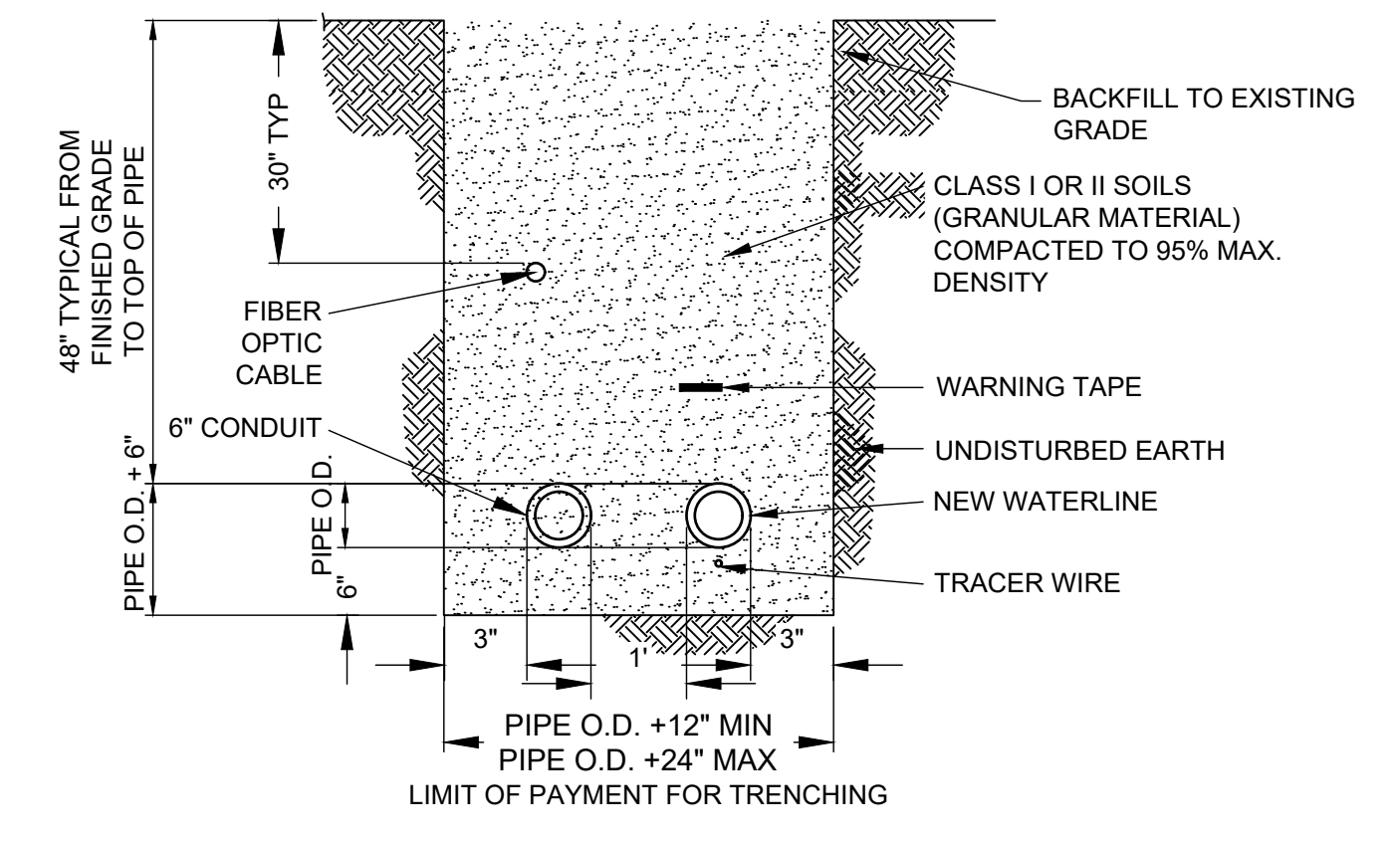
**TRENCH #1:  
PAVEMENT CUT/REPLACEMENT AND TRENCH DETAIL  
TO MATCH EXISTING ASPHALT PAVEMENT**

**E5**  
NOT TO SCALE



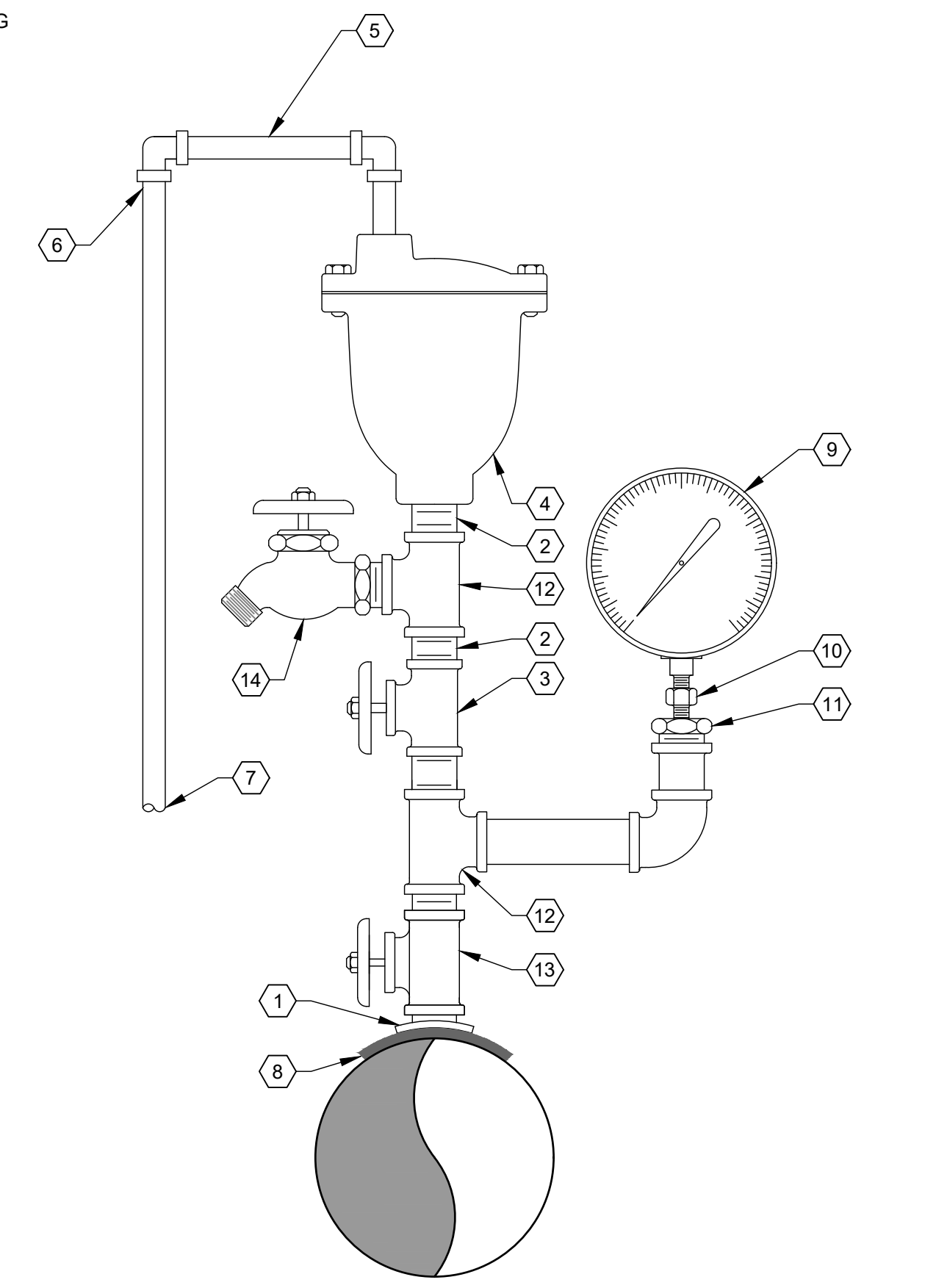
**TRENCH #3:  
PAVEMENT CUT/REPLACEMENT W/ GRAVEL  
PAVEMENT TO MATCH EXIST GRAVEL PAVEMENT**

**A5**  
NOT TO SCALE



**TRENCH #2:  
NON PAVED AREAS  
TRENCH DETAIL**

**F9**  
NOT TO SCALE



**AIR RELIEF VALVE ASSEMBLY DETAIL  
(INCLUDING PRESSURE GAGE AND HOSE BIB)**

**B8**  
NOT TO SCALE

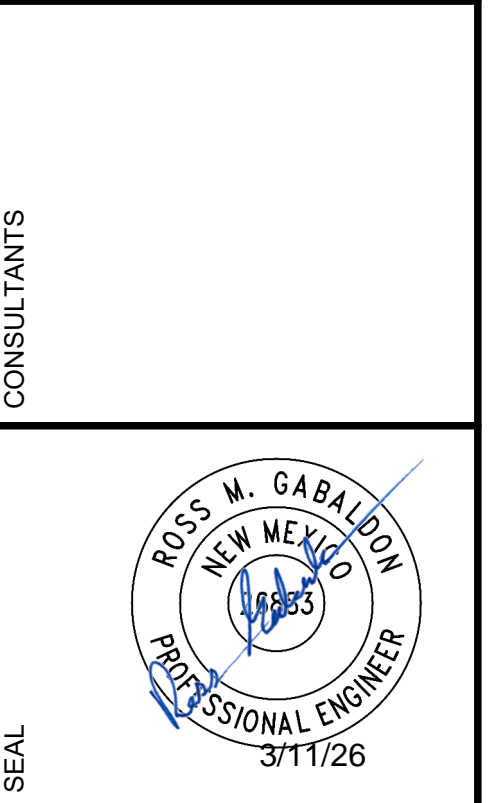
**KEYED NOTES:**

- 1 SERVICE SADDLE W/1" NPT OUTLET
- 2 1" NIPPLE, THREADED
- 3 1" GATE VALVE
- 4 1" COMBINATION AIR VACUUM RELEASE VALVE, VAL-MATIC MODEL 201C, OR EQUAL. (SEE SPECS)
- 5 1/2" NIPPLES AND ELBOWS FOR AIR RELEASE VALVE OUTLET
- 6 STAINLESS STEEL HOSE CLAMP
- 7 1/2" FLEXIBLE TUBING, EXTEND TO FLOOR DRAIN
- 8 8" PIPE
- 9 PRESSURE GAUGE, 4" FACE (MIN.), 0-200 P.S.I., NON-CORROSIVE BODY EQUAL, GLYCERIN FILLED, MAX. 2 P.S.I. INCREMENTS, ASHCROFT TYPE 1009, OR EQUAL.
- 10 1/4" SNUBBER
- 11 1" x 1/4" BUSHING
- 12 1" TEE
- 13 1" GATE VALVE
- 14 1" HOSE BIB FOR TEST PORT

NOTE:  
SEE SPECS FOR MATERIALS.

**NOTICE OF EXTENDED PAYMENT PROVISION:**  
THIS CONTRACT ALLOWS THE OWNER TO MAKE PAYMENT WITHIN 45 DAYS AFTER SUBMISSION OF AN UNDISPUTED REQUEST FOR PAYMENT. (SECTION 57-28-5 B (2) NMSA 1978).

**WILSON & COMPANY**  
2600 THE AMERICAN RD. SE SUITE 100  
RIO RANCHO, NM 87124  
PHONE: 505-898-8021  
FAX: 505-898-8501  
www.wilsonco.com



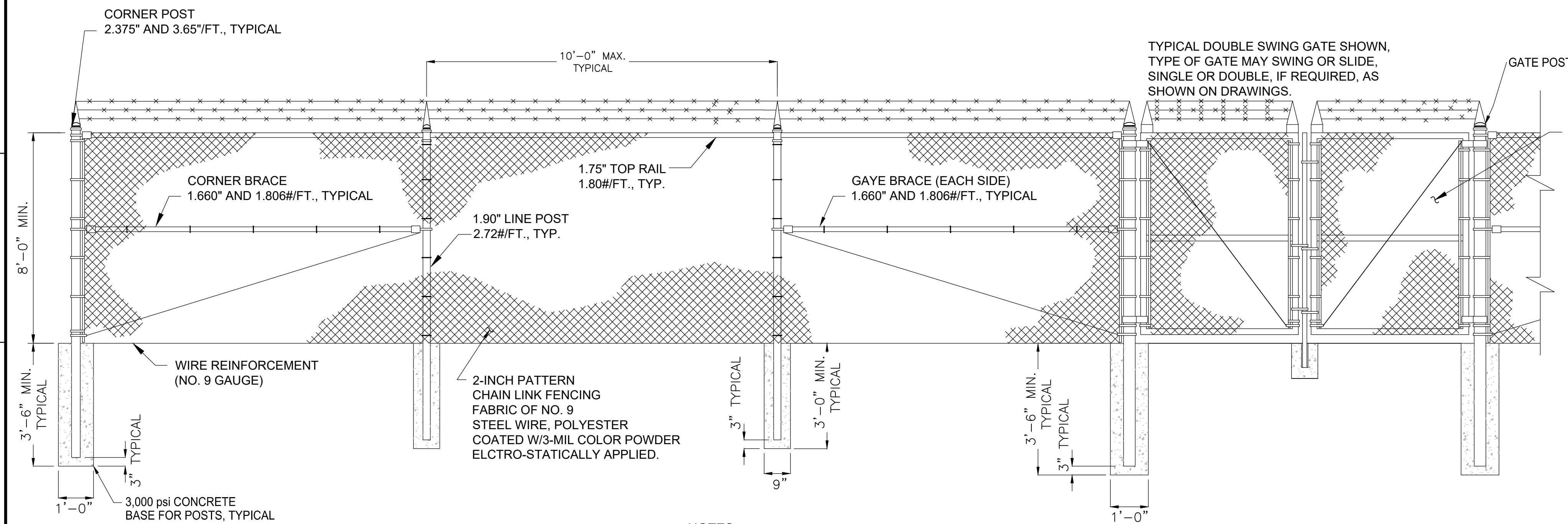
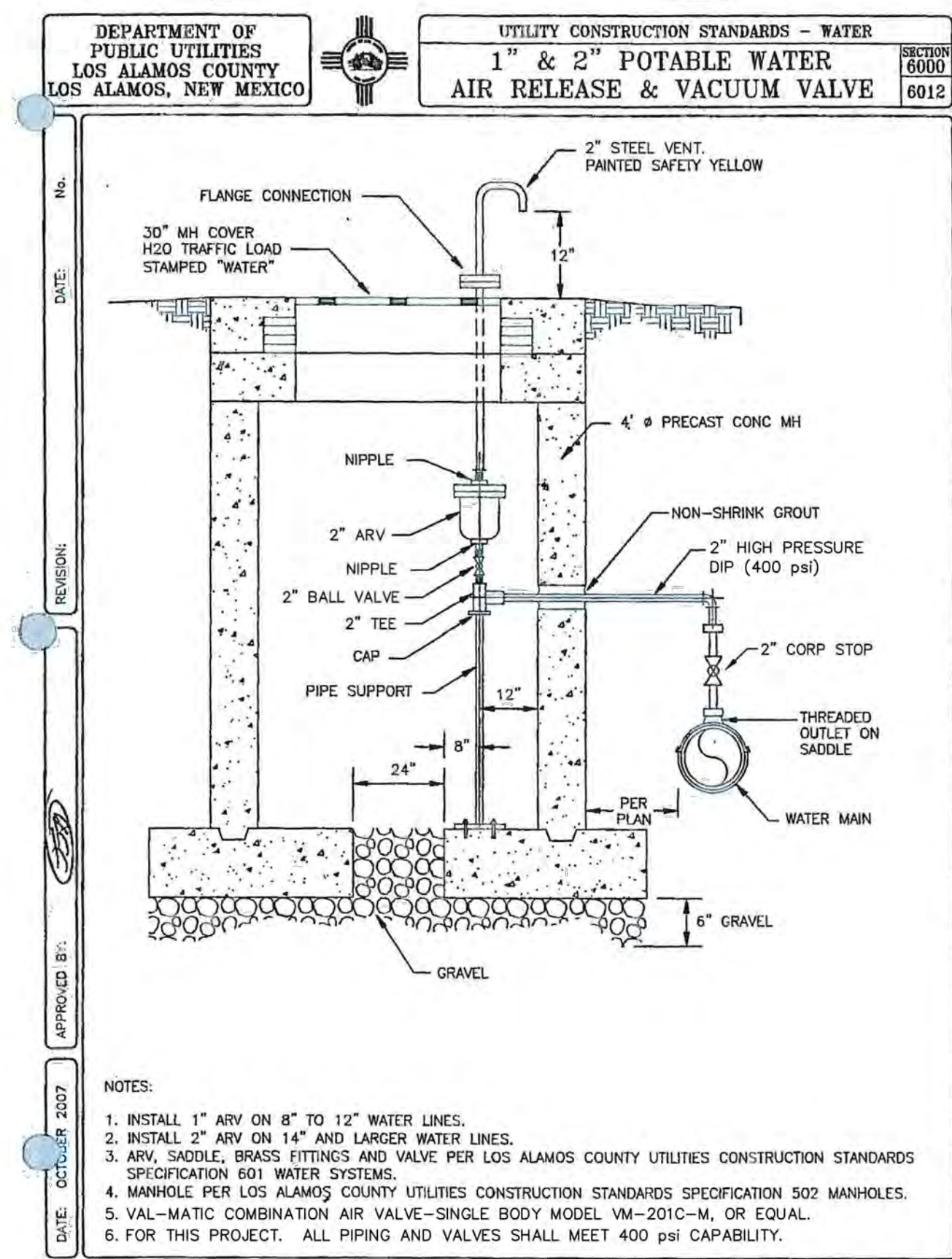
**LAC JEMEZ MOUNTAIN  
REGIONAL FIRE  
PROTECTION SYSTEM  
PHASE 3**

REV.	DATE	DESCRIPTION	BY

PROJECT NO: 22-600-894-03  
DESIGNED BY: RMG  
DRAWN BY: STAFF  
CHECKED BY: RMG  
DATE: MARCH 2026

SHEET TITLE  
**MISCELLANEOUS  
DETAILS**  
SHEET NO: **C-503**

NOTICE OF EXTENDED PAYMENT PROVISION:  
THIS CONTRACT ALLOWS THE OWNER TO MAKE  
PAYMENT WITHIN 45 DAYS AFTER SUBMISSION  
OF AN UNDISPUTED REQUEST FOR PAYMENT.  
(SECTION 57-28-5 B (2) NMSA 1978).



NOTES:

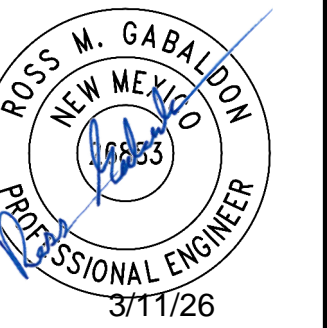
- FABRIC SHALL BE 2" MESH, 9 GAUGE STEEL WIRE, POLYESTER COATED W/3-MIL COLOR POWDER ELECTRO-STATICALLY APPLIED. BLACK, BROWN OR GREEN COLOR TO BE SELECTED BY OWNER.
- ALL POSTS SHALL BE HEAVILY COATED WITH ZINC BY THE HOT-DIP PROCESS. THE ZINC FABRIC COATING SHALL NOT BE LESS THAN 1.2 OZ/SF AND SHALL BE APPLIED IN ACCORDANCE WITH FEDERAL SPEC. QQ-Z-351.
- ALL MEMBERS ARE ROUND AND ALL DIMENSIONS ARE NOMINAL, O.D.
- EACH END POST SHALL BE BRACED WITH A TRUSS ROD 3/8" DIAMETER W/ TURNBUCKLE.
- FASTENERS: TERMINAL POSTS - 1/4" X 3/4" TENSION BAR W/6 GAUGE CLIPS AT 14" O.C. TOP RAIL - 9 GAUGE AT 24" O.C.
- TUBULAR POST BRACES AND TOP RAILS SHALL CONFORM TO THE REQUIREMENTS OF ASTM A 120.
- CHAIN LINK FABRIC SHALL CONFORM TO ASTM A 392-96.
- ALL FENCE FITTINGS SHALL CONFORM TO THE REQUIREMENTS OF ASTM F 626-96.
- ALL GATES, WHEN REQUIRED, SHALL CONFORM TO THE REQUIREMENTS OF ASTM F 654-91.

**B1** FENCE DETAIL  
NOT TO SCALE

**D8** PIPELINE AIR RELEASE/VACUUM VALVE DETAIL  
NOT TO SCALE

**WILSON & COMPANY**  
2600 THE AMERICAN RD. SE SUITE 100  
RIO RANCHO, NM 87124  
PHONE: 505-898-8021  
FAX: 505-898-8501  
www.wilsonco.com

CONSULTANTS



SEAL

LAC JEMEZ MOUNTAIN  
REGIONAL FIRE  
PROTECTION SYSTEM  
PHASE 3

PROJECT NAME

REV.	DATE	DESCRIPTION	BY

PROJECT NO: 22-600-894-03  
DESIGNED BY: RMG  
DRAWN BY: STAFF  
CHECKED BY: RMG  
DATE: MARCH 2026

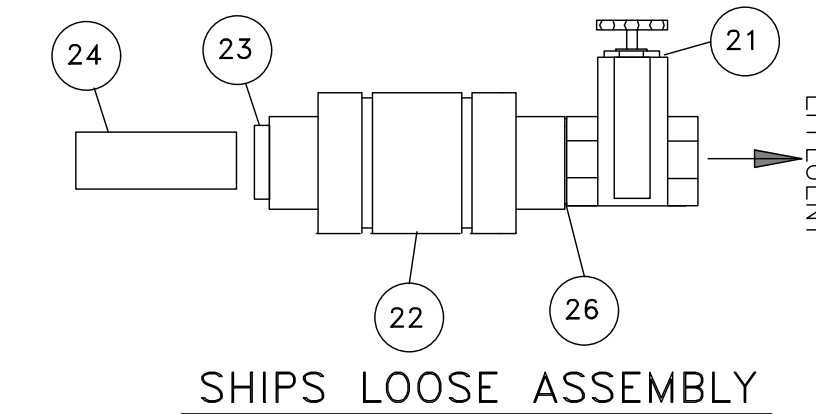
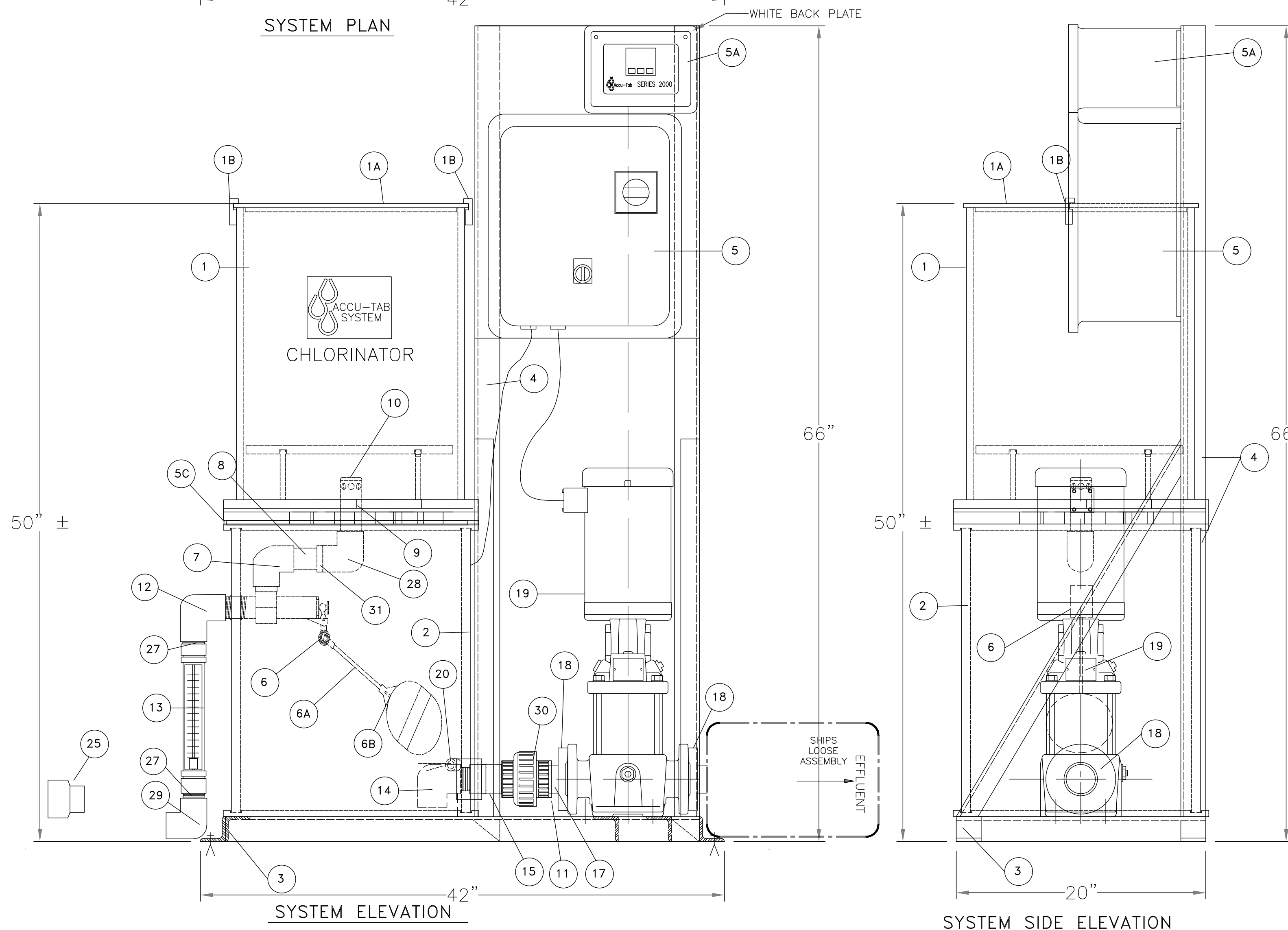
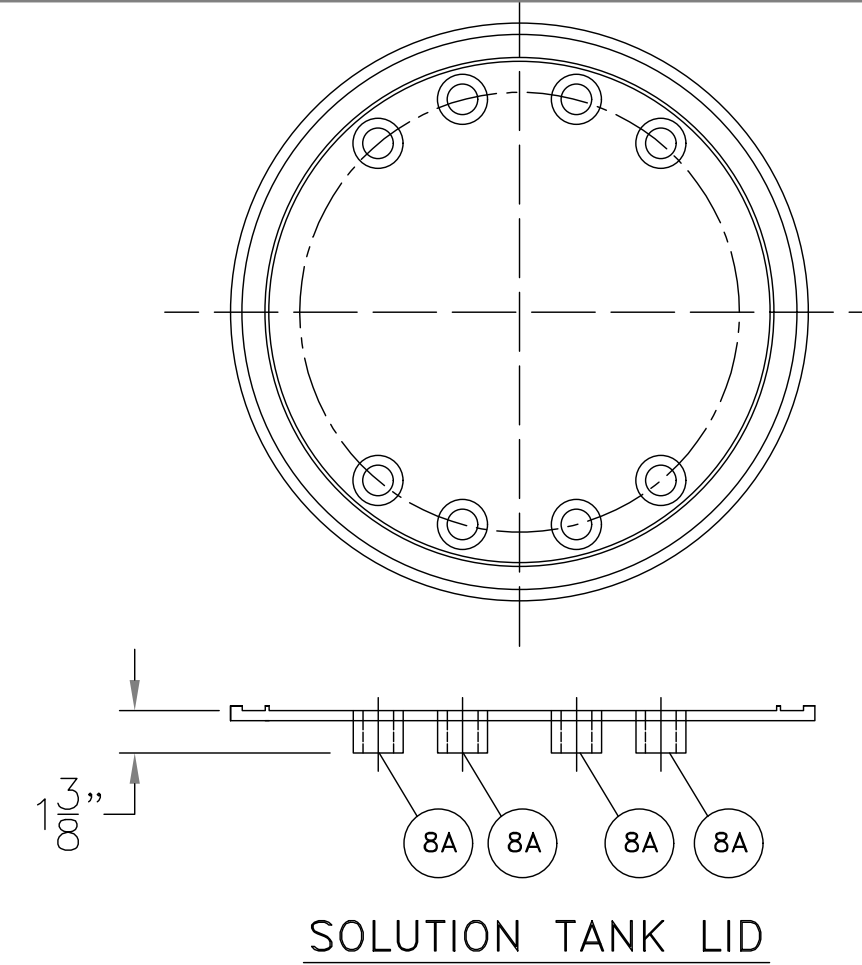
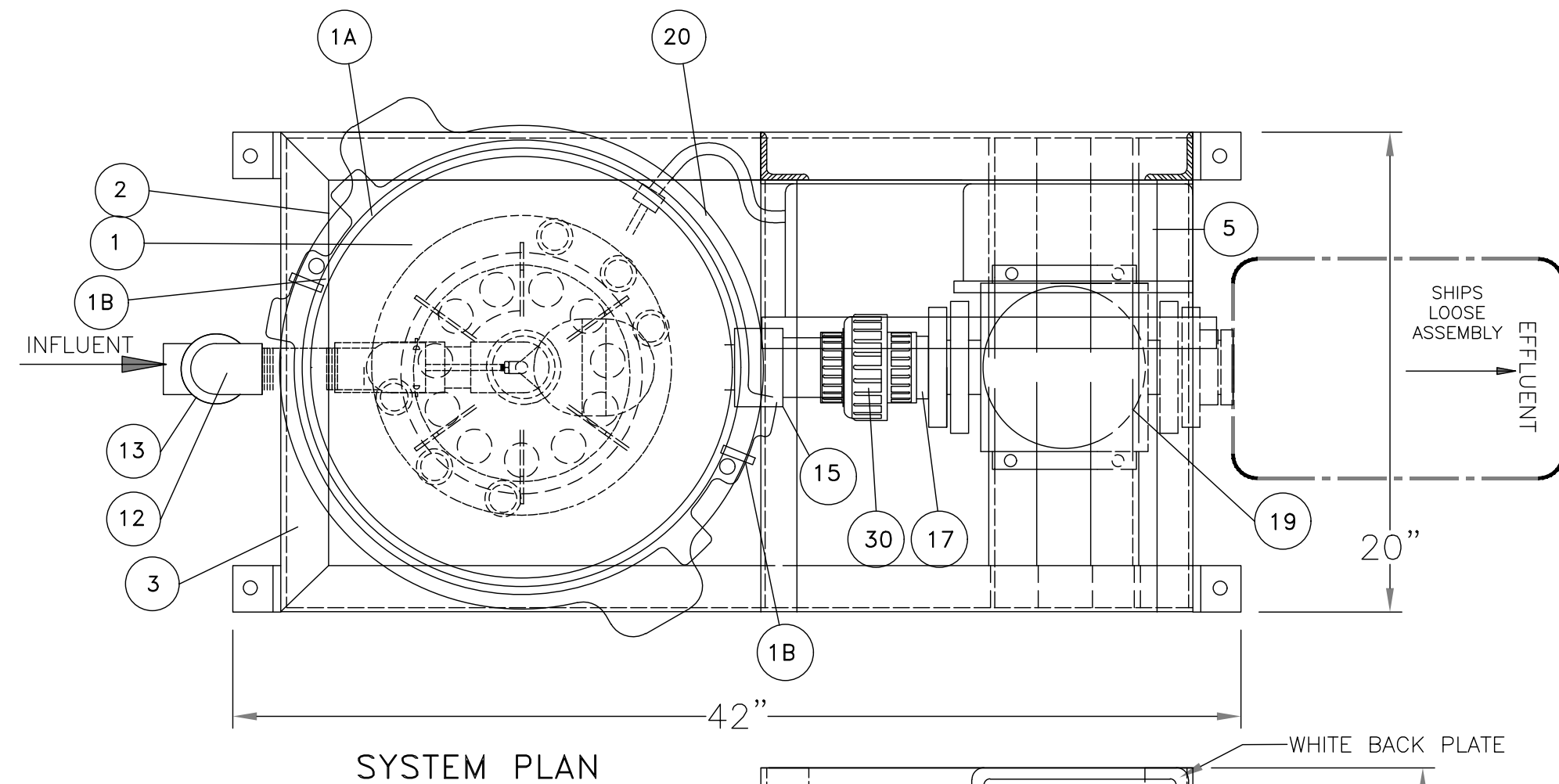
SHEET TITLE  
MISCELLANEOUS  
DETAILS

SHEET NO:  
**C-504**

M:\MSD\20-600-894-03\2\_Disciplines\_SHEETS\8\_sheets - utilities\_PHASE III\03\_TYP\268943\_C-501-C-502.dwg

3/11/2026

MANUFACTURER DETAIL PROVIDED FOR REFERENCE ONLY



BILL OF MATERIAL ACCU-TAB 2150P

ITEM	QUAN.	DESCRIPTION
1	1	2150 CHLORINATOR
1A	1	POLYCARBONATE LID - 1/2" x 18 3/4" DIA.
1B	2	LOCKING LID TABS
2	1	18" Ø PVC SOLUTION TANK
3	1	2" ANGLE ALUMINUM FRAME STAND W/ ANCHOR ANGLES
4	3	2" ANGLE ELECTRICAL SUPPORT
5	1	ELECTRICAL CONTROL PANEL
5A	1	SERIES 2000 CONTROLLER (OPTIONAL)
5C	1	WEIGHT SCALE (OPTIONAL)
CHLORINATOR/TANK INFLUENT PIPING		
6	1	FLOAT VALVE - KERICK PT100-SS
6A	1	316SS ROD - 1B166917
6B	1	FLOAT BALL ROUND 6" - KERICK PFO6
7	1	1" SLIP X THREAD SCH. 40 PVC 90° ELBOWS
8	1	1" SCH. 40 PVC PIPE
8A	8	1" Ø X 1 3/8" LG. SCH. 40 PVC PIPE
9	1	1 1/2" SCH. 40 PVC PIPE
10	1	1 1/2" SCH. 40 PVC MACHINED PLUG
11	1	1 1/4" X 1 1/2" PVC BUSHING
12	1	1" SCH. 80 PVC THREAD X THREAD 90° ELBOW
13	1	F-42040LN-16 FLOW METER W/FITINGS-SHIP LOOSE
25	1	1 1/2" X 1" REDUCING COUPLING
27	2	1" SCH. 80 PVC THREAD CLOSE NIPPLES
28	1	1 1/2" SCH. 40 PVC SLIP X SLIP 90°
29	1	1" SCH. 80 PVC SLIP X THREAD 90°
30	1	1 1/2" SCH. 80 PVC SLIP X SLIP UNION
BOOSTER PUMP PIPING		
14	1	1 1/2" SLIP X THREAD SCH. 40 PVC 90° ELBOW
15	1	1 1/2" SCH. 80 PVC MALE ADAPTOR
17	AR	1 1/4" SPA FLEX PVC
18	2	1 1/4" SCH. 80 PVC FLANGES
19	1	CHLORINE BOOSTER PUMP
20	1	MADISON LOW LEVEL SWITCH
21	1	1" GATE VALVE-SHIP LOOSE
22	1	FLAP CHECK VALVE-SHIP LOOSE
23	2	1 1/4" X 1 1/2" REDUCING BUSHING-SHIP LOOSE
24	1	1 1/4" X 6" PIECE OF PIPE
26	1	1 1/2" SCH. 80 PIECE OF PIPE
31	1	1 1/2" X 1" SCH. 40 REDUCING BUSHING SLIP X SLIP

TITLE: AXIAL ACCU-TAB 2150P CHLORINATOR W/ GRUNDFOS PUMP WITH EQUIPMENT LIST & TABS

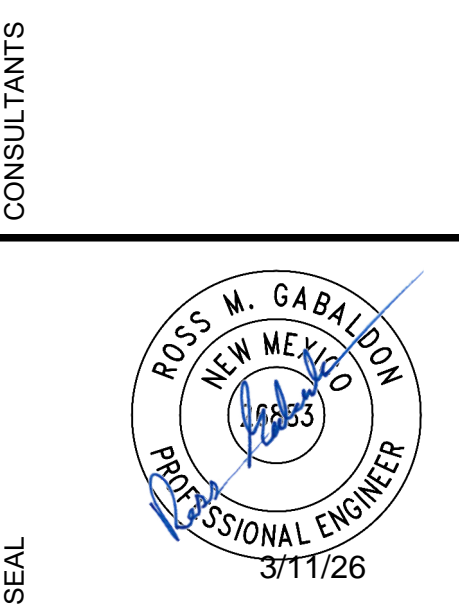
**axial** WTP

DRAWN: RMH DATE: 18 OCT 2016

SCALE: 3/8" = 1"

DWG ACCU-TAB 2150P REV 0

**WILSON & COMPANY**  
 2600 THE AMERICAN RD. SE SUITE 100  
 RIO RANCHO, NM 87124  
 PHONE: 505-898-8021  
 FAX: 505-898-8501  
 www.wilsonco.com



LAC JEMEZ MOUNTAIN REGIONAL FIRE PROTECTION SYSTEM PHASE 3

REV.	DATE	DESCRIPTION	BY

PROJECT NO: 22-600-894-03  
 DESIGNED BY: RMG  
 DRAWN BY: STAFF  
 CHECKED BY: RMG  
 DATE: MARCH 2026

SHEET TITLE  
 CHLORINE EQUIPMENT DETAILS

SHEET NO: C-505

3/11/2026 M:\MSD\20-600-894-03\2\_Disciplines\_SHEETS\8\_sheets - utilities\_PHASE III\03\_TYP\266943\_C-501-C-502.dwg Attachment A

**DESIGN CRITERIA**

- CODES:**

  - A. IBC 2021. INTERNATIONAL BUILDING CODE.
  - B. ASCE 7-16. MINIMUM DESIGN LOADS FOR BUILDING AND OTHER STRUCTURES.
  - C. ACI 318-19. BUILDING CODE REQUIREMENTS FOR STRUCTURAL CONCRETE.
  - D. AISC STEEL CONSTRUCTION MANUAL, 15TH EDITION.
- RISK CATEGORY OF STRUCTURE: 1 (ONE) (PER ASCE 7-16 TABLE 1.5-1)
- DEAD LOADS - APPLY ACTUAL WEIGHT OF COMPONENTS, CLADDING, AND APPURTENANCES
- LIVE LOADS
  - A. ROOF: 20 PSF (NOT REDUCED)
  - B. FLOOR: NOT APPLICABLE
- SNOW LOAD:
 

GROUND SNOW LOAD = 30 PSF  
 EXPOSURE FACTOR (SURFACE ROUGHNESS B, SHELTERED) -  $C_e = 1.2$   
 THERMAL FACTOR -  $C_t = 1.0$   
 SNOW IMPORTANCE FACTOR -  $I_s = 0.80$   
 FLAT ROOF SNOW LOAD -  $P_s = 20.2$  PSF  
 SLOPED ROOF SNOW LOAD -  $P_s = 14.11$  PSF  
 RAIN ON SNOW SURCHARGE = NA
- WIND LOAD:
 

BASIC WIND SPEED = 99 MPH (RC = I)  
 EXPOSURE B  
 WIND IMPORTANCE FACTOR -  $I_w = 1.00$   
 INTERNAL PRESSURE COEFFICIENT (C<sub>gp</sub>) = +/- 0.18
- SEISMIC LOAD:
 

SEISMIC IMPORTANCE FACTOR  $I_s = 1.00$   
 MAPPED SPECTRAL ACCELERATION PARAMETERS:  
 $S_s = 0.507$   
 $S_1 = 0.166$

SOIL SITE CLASS = D

DESIGN SPECTRAL ACCELERATION PARAMETERS:  
 $S_{DS} = 0.471$   
 $S_{D1} = 0.251$

SEISMIC DESIGN CATEGORY = C

BASIC SEISMIC FORCE RESISTING SYSTEM:  
 BEARING WALL SYSTEM, ORDINARY REINFORCED MASONRY WALLS.

RESPONSE MODIFICATION FACTOR: R = 6.5  
 SEISMIC RESPONSE COEFFICIENT:  $C_s = 0.06$

**GENERAL**

- CONSTRUCTION DOCUMENTS:
  - A. IF THERE ARE DISCREPANCIES BETWEEN THE PLANS, DETAILS, GENERAL NOTES AND SPECIFICATIONS, THE MOST STRINGENT REQUIREMENTS WILL GOVERN.
  - B. SPECIFIC NOTES AND DETAILS TAKE PRECEDENCE OVER THE GENERAL NOTES AND TYPICAL DETAILS.
  - C. DETAILS DESIGNATED AS "TYPICAL" APPLY IN SIMILAR CONDITIONS UNLESS SPECIFIC DETAILS ARE PROVIDED.
  - D. WHERE NO SPECIFIC DETAILS ARE SHOWN, MATCH CONSTRUCTION DETAILS SHALL APPLY FOR SIMILAR CONDITIONS ON THE PROJECT. CONFIRM DETAILS WITH ENGINEER BEFORE CONSTRUCTION.
- DIMENSIONS:
  - A. DO NOT SCALE DRAWINGS FOR CONSTRUCTION DIMENSIONS.
  - B. CONTRACTOR SHALL VERIFY DIMENSIONS IN THE FIELD.
  - C. NOTIFY THE ENGINEER OF ANY DISCREPANCIES.
- PROJECT COORDINATION:
  - A. COORDINATE STRUCTURAL WORK WITH ALL REQUIREMENTS SHOWN ON ARCHITECTURAL, MECHANICAL, ELECTRICAL, CIVIL AND ALL OTHER PROJECT DRAWINGS.
  - B. SEE ARCHITECTURAL DRAWINGS FOR WORK RELATED TO STRUCTURAL DETAILS SUCH AS:
    - SIZE AND LOCATION OF DOOR AND WINDOW OPENINGS EXCEPT AS NOTED.
    - SIZE AND LOCATION OF INTERIOR NON-LOAD BEARING PARTITIONS.
    - SIZE AND LOCATION OF CURBS, FLOOR DRAINS, SLOPES, DEPRESSIONS, AND CHANGES IN LEVEL, EXCEPT AS NOTED.
    - SIZE AND LOCATION OF FLOOR AND ROOF OPENINGS, EXCEPT AS NOTED.
    - REQUIREMENTS FOR FIRE RESISTANT RATED ASSEMBLIES.
    - FINISHES.
    - DIMENSIONS AND ORIENTATIONS NOT SHOWN ON STRUCTURAL DRAWINGS.
  - C. SEE MECHANICAL AND ELECTRICAL PLANS FOR:
    - PIPES, DUCTS, CONDUITS, AND OPENINGS IN WALLS AND FLOORS, EXCEPT AS NOTED.
    - SIZE AND LOCATIONS OF EQUIPMENT PADS AND EQUIPMENT SLABS.
    - EQUIPMENT MOUNTING REQUIREMENTS, WHEN APPLICABLE.
  - D. DO NOT LOCATE EQUIPMENT PADS, CONCRETE OR OTHER BASE MATERIALS, ON ROOFS OR SUSPENDFLOORS UNLESS SPECIFICALLY SHOWN ON THE STRUCTURAL DRAWINGS.
- SUBMITTALS:
  - A. ANY WORK THAT IS FABRICATED OR INSTALLED BEFORE REQUIRED SUBMITTALS FOR THAT WORK ARE SUBMITTED AND REVIEWED IS AT THE CONTRACTOR'S RISK AND MAY BE REQUIRED TO BE MODIFIED OR REMOVED AND REPLACED AT THE CONTRACTOR'S EXPENSE.
  - B. REVIEW OF SUBMITTALS IS FOR GENERAL CONFORMANCE WITH DESIGN CONCEPT OF THE PROJECT AND GENERAL COMPLIANCE WITH INFORMATION GIVEN IN THE CONTRACT DOCUMENTS. SUBMITTAL REVIEW DOES NOT RELIEVE CONTRACTOR FROM COMPLIANCE WITH ALL CONTRACT REQUIREMENTS AND CONFORMANCE SPECIFIED IN THE CONTRACT DOCUMENTS.
  - C. DEVIATIONS FROM THE CONTRACT DOCUMENTS SHALL BE SHOWN ON SUBMITTALS AND NOTED PER THE FOLLOWING:
    - DEVIATIONS SHALL BE NOTED ON ATTACHED SEPARATE SHEET, PREPARED ON CONTRACTOR'S LETTERHEAD. SPECIFICALLY NOTE ON SUBJECT SUBMITTAL ANY ITEMS DEVIATING FROM THE CONTRACT DOCUMENTS OR PREVIOUSLY REVIEWED SUBMITTALS, AND REQUEST APPROVAL.
    - ONLY DEVIATIONS THAT ARE SPECIFICALLY NOTED AS APPROVED IN THE ENGINEER'S REVIEW ARE APPROVED FOR INCORPORATION INTO THE WORK. DEVIATIONS THAT ARE NOTED AS "NOT APPROVED", AND DEVIATIONS THAT ARE NOT COMMENTED ON, ARE NOT APPROVED FOR INCORPORATION INTO THE WORK.
  - D. CHANGES TO CONTRACT DOCUMENTS:
    - A. CHANGES TO THE CONTRACT DOCUMENTS THAT DO NOT AFFECT THE PROJECT COST OR SCHEDULE MAY BE ISSUED BY THE ENGINEER OF RECORD BY ARCHITECT'S SUPPLEMENTAL INSTRUCTIONS (ASI), RESPONSES TO REQUESTS FOR INFORMATION (RFI), COMMENTS ON SUBMITTALS, OR BY OTHER WRITTEN DOCUMENT.
    - B. CHANGES TO THE CONTRACT DOCUMENTS WILL NOT BE ISSUED VERBALLY, BY PHONE, OR IN PERSON. DO NOT INCORPORATE CHANGES TO THE CONTRACT DOCUMENTS THAT HAVE BEEN ISSUED VERBALLY WITHOUT WRITTEN DOCUMENTATION.
    - C. CHANGES TO THE CONTRACT DOCUMENTS THAT AFFECT THE PROJECT COST OR SCHEDULE CAN ONLY BE ISSUED IN WRITING BY THE OWNER. THE ENGINEER DOES NOT HAVE AUTHORITY TO ISSUE CHANGES THAT AFFECT PROJECT COST OR SCHEDULE.
    - D. IF THE ENGINEER ISSUES ANY CHANGES TO THE CONTRACT DOCUMENTS THAT THE CONTRACTOR BELIEVES AFFECTS THE PROJECT COST OR SCHEDULE, DO NOT PROCEED WITH THE CHANGE. NOTIFY THE OWNER AND ENGINEER OF THE PROPOSED CHANGE AND IMPACT ON COST AND SCHEDULE.
    - E. WORK DONE ON A CHANGE THAT IMPACTS PROJECT COST OR SCHEDULE, THAT HAS NOT BEEN ISSUED IN WRITING BY THE OWNER, IS AT THE CONTRACTOR'S RISK. THE CONTRACTOR MAY NOT BE PAID FOR THIS WORK, AND THE WORK MAY BE REQUIRED TO BE MODIFIED OR REMOVED AND REPLACED AT THE CONTRACTOR'S EXPENSE.

**CONSTRUCTION:**

- THE STRUCTURE SHOWN ON THE DRAWINGS IS DESIGNED TO BE STABLE IN THE FINAL CONFIGURATION. THE CONTRACTOR SHALL DESIGN AND PROVIDE TEMPORARY BRACING, SHORING, AND OTHER SUPPORT AS REQUIRED FOR STABILITY DURING CONSTRUCTION. THE CONTRACTOR SHALL NOT DAMAGE OR OVERSTRESS PERMANENT ELEMENTS WITH TEMPORARY BRACING, SHORING, OR OTHER SUPPORTS.
- USE CONSTRUCTION SEQUENCES THAT WILL NOT RESULT IN DAMAGE TO PERMANENT COMPONENTS FROM THERMAL STRESSES DURING CONSTRUCTION.
- DO NOT CUT, NOTCH, OR MODIFY SHOP-FABRICATED STRUCTURAL MEMBERS IN THE FIELD UNLESS SHOWN ON THE DRAWINGS OR SUBMITTED AND APPROVED BY THE ENGINEER.
- NON-BEARING PARTITIONS:
  - A. PROVIDE HANGERS, SUPPORTS, BRACING AND ATTACHMENTS FOR UTILITIES AND EQUIPMENT AS SHOWN ON DRAWINGS, AS SPECIFIED, OR AS SUBMITTED AND APPROVED.
  - B. PROVIDE POSITIVE CONNECTIONS FROM ALL UTILITIES AND EQUIPMENT TO SUPPORTING STRUCTURES TO RESIST LATERAL LOADS (WIND AND SEISMIC) BY WELDING, BOLTING OR CLAMPING. WELD OR BOLT MECHANICAL UNITS TO SUPPORTING CURBS AND WELD OR BOLT CURBS TO SUPPORTING STRUCTURE.

**FOUNDATION**

- THE GEOTECHNICAL REPORT AND ITS RECOMMENDATIONS SHALL BE FOLLOWED AND SHALL BE CONSIDERED MINIMUM REQUIREMENTS UNLESS MORE STRINGENT REQUIREMENTS ARE PRESENTED IN THE CONSTRUCTION DOCUMENTS.
- DESIGN ALLOWABLE BEARING PRESSURE = 2000 PSF
- THE CONTRACTOR IS SOLELY RESPONSIBLE FOR EXCAVATION PROCEDURES INCLUDING LAGGING, SHORING, UNDERPINNING, AND PROTECTION OF EXISTING CONSTRUCTION.
- PROVIDE DE-WATERING OF EXCAVATIONS FROM SURFACE WATER, GROUND WATER OR SEEPAGE. REMOVE LOOSE SOIL AND STANDING WATER FROM FOUNDATION EXCAVATIONS PRIOR TO PLACING CONCRETE.
- EXCAVATION AND COMPACTION SHALL BE APPROVED BY THE GOVERNING AGENCY AND THE GEOTECHNICAL ENGINEER PRIOR TO PLACING CONCRETE AND REINFORCING. THE GEOTECHNICAL ENGINEER SHALL SUBMIT A LETTER OF COMPLIANCE TO THE OWNER'S REPRESENTATIVE.
- THE CONTRACTOR SHALL BRACE AND PROTECT ALL BUILDING ELEMENTS BELOW GRADE FROM LATERAL LOADS UNTIL FLOORS ARE COMPLETELY IN PLACE AND HAVE ATTAINED FULL STRENGTH. BACKFILL SHALL NOT BE PLACED BEHIND WALLS OR STEM WALLS BEFORE CONCRETE HAS ATTAINED FULL DESIGN STRENGTH.
- EARTHWORK SHALL BE PERFORMED IN ACCORDANCE WITH THE SOILS REPORT.
- FOR ALL SIDES OF FOOTINGS, WALLS, AND GRADE BEAMS. NEAT FORMING (PLACING CONCRETE WITHOUT FORMWORK, OR DIRECTLY AGAINST EARTH) IS NOT PERMITTED.
- PLACE HORIZONTAL PIPES, CONDUITS, AND OTHER UTILITIES A MINIMUM OF 4" BELOW BOTTOM OF CONCRETE SLABS ON GRADE.
- OWNER WILL ENGAGE THE PROJECT GEOTECHNICAL ENGINEER OR ANOTHER OUTSIDE CONSULTANT COMPETENT TO COMPLETE THE REQUIRED TESTING AND STRUCTURAL INSPECTION, TO PERFORM THE SPECIAL INSPECTION AND TESTING AS SPECIFIED AND STATED IN THE "STATEMENT OF STRUCTURAL TESTS AND SPECIAL INSPECTIONS".

**EXPANSION ANCHORS:**

- PROVIDE ONE OF THE FOLLOWING:
  - A. HILTI KWIK BOLT TZZ BY HILTI, INC., ICC-ES ESR-4266.
  - B. SIMPSON STRONG BOLT 2 BY SIMPSON STRONG TIE, ICC-ES ESR-3037.
  - C. APPROVED EQUAL, RATED FOR CRACKED CONCRETE IN ACCORDANCE WITH ACI 318, WITH EQUAL OR GREATER LOAD CAPACITIES.
  - D. FINISH - ZINC PLATED.
- LENGTHS SHOWN ON DRAWINGS ARE EMBEDMENT LENGTHS. PROVIDE ANCHORS OF SUFFICIENT LENGTH TO PROVIDE REQUIRED EMBEDMENT AND CONNECTION.
- DRILL AND CLEAN HOLE AND INSTALL ANCHORS IN ACCORDANCE WITH ICC REPORT AND MANUFACTURER'S INSTRUCTIONS. TIGHTEN TO MANUFACTURER'S REQUIRED INSTALLATION TORQUE.
- DO NOT CUT CONCRETE STEEL REINFORCING WHEN DRILLING INTO CONCRETE. REGULAR SPACED AND TYPICAL ANCHOR POSITION MAY BE ADJUSTED A MAXIMUM OF 2" IN THE FIELD TO AVOID REINFORCING. ALTHOUGH, DO NOT MOVE ANCHORS CLOSER TO CONCRETE EDGES THAN IS SHOWN IN THE DRAWINGS.
- MINIMUM EMBEDMENT, UNLESS NOTED OTHERWISE:
 

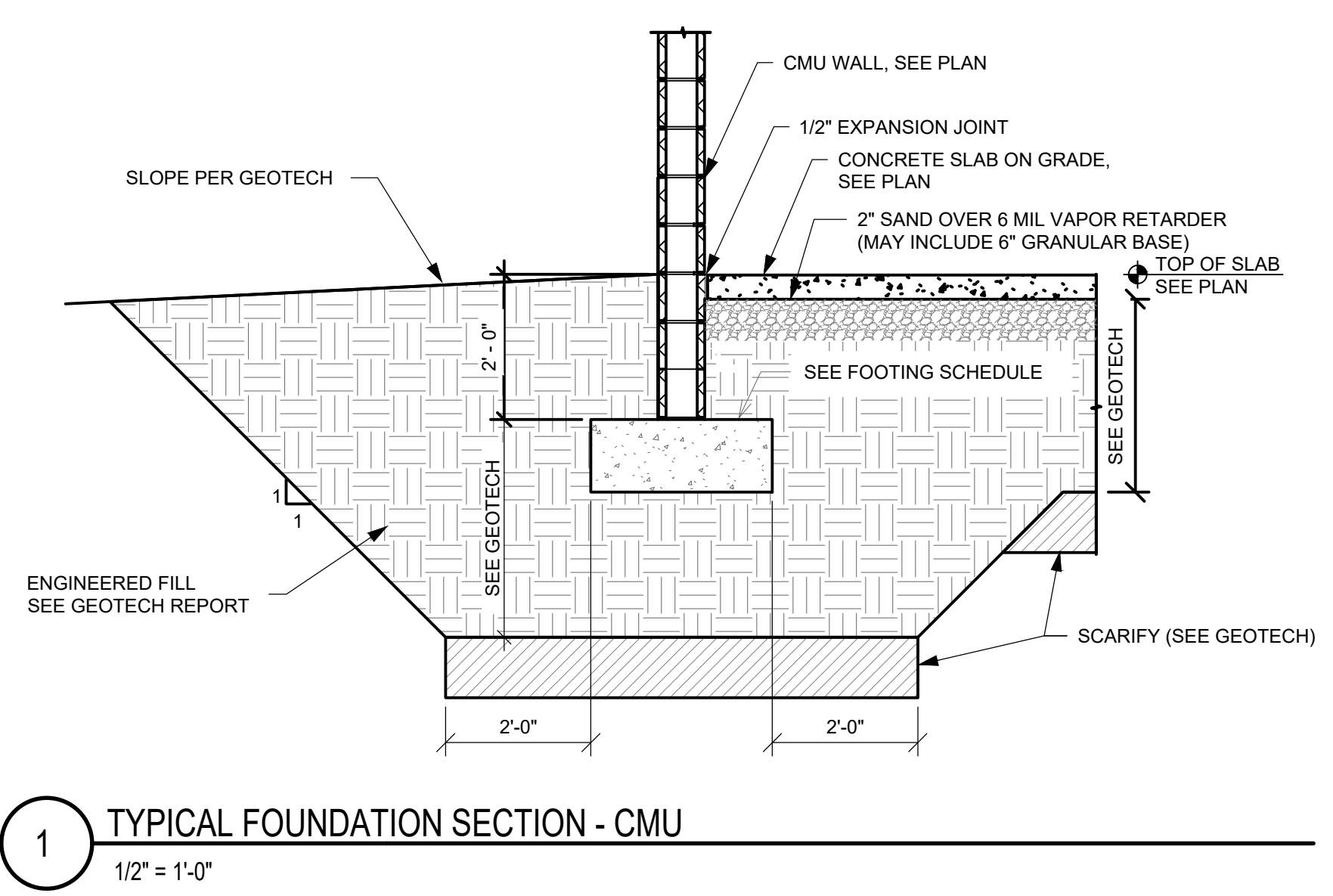
DIAMETER:	EMBEDMENT (IN):
3/8"	2
1/2"	3 1/4"
5/8"	4"
3/4"	4 3/4"
- SPECIAL INSPECTOR WILL VERIFY ANCHOR TYPE, ANCHOR DIMENSIONS, HOLE DIMENSIONS, HOLE CLEANING PROCEDURES, ANCHOR CONFIGURATION, AND TIGHTENING TORQUE.

**ADHESIVE ANCHORS:**

- FOR THREADED RODS AND REINFORCING BARS IN SOLID CONCRETE AND GROUTED MASONRY, PROVIDE ONE OF THE FOLLOWING:
  - A. HILTI HIT-RE 500-V3 ADHESIVE ANCHORING SYSTEM BY HILTI, INC., ICC-ES ESR-3814.
  - B. SIMPSON SET-XP ADHESIVE ANCHORING SYSTEM BY SIMPSON STRONG TIE, ICC-ES ESR-2508.
  - C. APPROVED EQUAL, RATED FOR CRACKED CONCRETE IN ACCORDANCE WITH ACI 318, WITH EQUAL OR GREATER LOAD CAPACITIES.
- FOR THREADED RODS IN HOLLOW MASONRY, PROVIDE HILTI HIT HY-270 ADHESIVE ANCHORING SYSTEM BY HILTI, INC., ICC-ES ESR-4143.
- THREADED RODS ARE REQUIRED TO BE FULLY THREADED STEEL ROD, MEETING REQUIREMENTS OF ASTM A1554, GRADE 36. FINISH SHALL BE ZINC PLATED.
- LENGTHS SHOWN ON DRAWINGS ARE EMBEDMENT LENGTHS. PROVIDE ANCHORS OF SUFFICIENT LENGTH TO PROVIDE REQUIRED EMBEDMENT AND ENOUGH PROJECTION FOR TOP CONNECTION.
- IN SOLID CONCRETE AND GROUTED MASONRY, DRILL HOLES WITH ROTARY HAMMER DRILL. IN HOLLOW MASONRY, DRILL WITHOUT DAMAGING FACE SHELL OF MASONRY UNITS.
- CLEAN HOLE AND INSTALL ADHESIVE ANCHORS IN ACCORDANCE WITH ICC REPORT AND MANUFACTURER'S SPECIFICATIONS. USE HILTI "PISTON PLUG" ATTACHMENT OR EQUAL IN SOLID CONCRETE AND GROUTED MASONRY TO CONTROL SPREADING ADHESIVE.

**ABBREVIATIONS**

ABBREVIATION	DESCRIPTION	ABBREVIATION	DESCRIPTION
AB	ANCHOR BOLT	LONG	LONGITUDINAL
AFF	ABOVE FINISHED FLOOR	LT WT	LIGHTWEIGHT
ALT	ALTERNATE	LVL	LAMINATED VENEER LUMBER
ARCH	ARCHITECT	LWC	LIGHTWEIGHT CONCRETE
@	AT (MEASUREMENT)	MAX	MAXIMUM
BN	BOX NAIL	MCJ	MASONRY CONTROL JOINT
BOB	BOTTOM OF BEAM	MECH	MECHANICAL
BOD	BOTTOM OF DECK	MFR(S)	MANUFACTURER(S)
BOF	BOTTOM OF FOOTING	MIN	MINIMUM
BOT	BOTTOM	MISC	MISCELLANEOUS
BRG	BRACING	N	NEW
CIP	CAST IN PLACE	NA	NOT APPLICABLE
CJ	CONTROL / CONSTRUCTION	NIC	NOT IN CONTRACT
CJP	COMPLETE JOINT PENETRATION	NTS	NOT TO SCALE
CL	CENTERLINE	OC	ON CENTER
CLB	CENTERLINE OF BEAM	OCEF	ON CENTER EACH FACE
CLC	CENTERLINE OF COLUMN	OCEW	ON CENTER EACH WAY
CLF	CENTERLINE OF FOOTING	OD	OUTSIDE DIAMETER
CLR	CLEAR	OF	OUTSIDE FACE
CLW	CENTERLINE OF WALL	OFW	OUTSIDE FACE OF WALL
CONC	CONCRETE	OPNG	OPENING
CMU	CONCRETE MASONRY UNIT	OPR	OPPOSITE
CONN	CONNECTION	OPT	OPTIONAL
CONT	CONTINUOUS	ORIG	ORIGINAL
CSK	COUNTERSUNK	OSB	ORIENTED STRAND BOARD
D	DEEP, DEPTH	PC	PRECAST CONCRETE
DBL	DOUBLE	PED	PEDESTAL
DEMO	DEMOLITION	PERP	PERPENDICULAR
DET	DETAIL	PLF	POUNDS PER LINEAR FOOT
OR DIA	DIAMETER	PLYWD	PLYWOOD
DIAG	DIAGONAL	PREFAB	PREFABRICATED
DIM	DIMENSION	PRELIM	PRELIMINARY
DN	DOWN	PS CONC	PRESTRESSED CONCRETE
DWG(S)	DRAWING(S)	PSF	POUNDS PER SQUARE FOOT
(E)	EXISTING	PSI	POUNDS PER SQUARE INCH
EF	EACH FACE	PSL	PARALLEL STRAND LUMBER
EJ	EXPANSION JOINT	PT	POST TENSIONED
EL	ELEVATION	PT	PRESSURE TREATED
EOS	EDGE OF SLAB	PTN	PARTITION
EQ	EQUAL	PWJ	PLYWOOD WEB JOIST
EQL SP	EQUALLY SPACED	R	RADIUS
EQUIP	EQUIPMENT	RC	REINFORCED CONCRETE
EXP ANC	EXPANSION ANCHOR	REINF	REINFORCEMENT
EW	EACH WAY	RTU	ROOF TOP UNIT
FDN	FOUNDATION	SER	STRUCTURAL ENGINEER OF...
FF	FINISHED FLOOR	SHING	SHINGLING
FIN GR	FINISHED GRADE	SIM	SIMILAR
FLG	FLANGE	SOG	SLAB ON GRADE
FLR	FLOOR	SO	SQUARE
FOC	FACE OF CONCRETE	STAG	STAGGERED
FOF	FACE OF FINISH	STD	STANDARD
FOM	FACE OF MASONRY	STIF	STIFFENER
FOS	FACE OF STEEL / STUD	STIR	STIRRUP
GA	GAUGE	SP	SPACING
GALV	GALVANIZED	T&B	TOP AND BOTTOM
GLU LAM	GLUE LAMINATED WOOD	T&G	TONGUE AND GROOVE
GLB	GLUE LAMINATED BEAM	THK	THICKNESS
GR BM	GRADE BEAM	THRU	THROUGH
GSN	GENERAL STRUCTURAL NOTES	TOB	TOP OF BEAM
HAS	WELDED HEADED ANCHOR...	TOBP	TOP OF BEARING PLATE
HDR	HEADER	TOP	TOP OF PLATE
HGR	HANGER	TOC	TOP OF CONCRETE
HORIZ	HORIZONTAL	TOD	TOP OF DECK
HSB	HIGH-STRENGTH BOLT	TOF	TOP OF FOOTING
HSS	HOLLOW STRUCTURAL SECTION	TOL	TOP OF LEDGER
ID	INSIDE DIAMETER	TOM	TOP OF MASONRY
IF	INSIDE FACE	TOP	TOP OF PLATE
IFW	INSIDE FACE OF WALL	TOS	TOP OF STEEL
IJ	ISOLATION JOINT	TOW	TOP OF WALL
INT	INTERIOR	TYP	TYPICAL
K	KIP = 1000 POUNDS	UNO	UNLESS NOTED OTHERWISE
KOBB	KNOCK OUT BOND BEAM	VAR	VARIES
KSI	KIPS PER SQUARE INCH	VERT	VERTICAL
L	ANGLE	VIF	VERIFY IN FIELD
LBS OR #	POUNDS	W/	WITH
LD BRG	LOAD BEARING	WO	WITHOUT
LIN	LINEAR	WOOD	WOOD
LL	LIVE LOAD	WF	WIDE FLANGE
LLH	LONG LEG HORIZONTAL	WLD	WELDED
LLV	LONG LEG VERTICAL	WWF	WELDED WIRE FABRIC



**1** TYPICAL FOUNDATION SECTION - CMU  
1/2" = 1'-0"

**WILSON & COMPANY**  
 2600 THE AMERICAN RD. SUITE 100  
 RIO RANCHO, NM 87124  
 PHONE: 505-898-8021  
 FAX: 505-898-8501  
 www.wilsonco.com

---

**WILL B. ROSS**  
 NEW MEXICO  
 25648  
 PROFESSIONAL ENGINEER  
 03/12/26

---

**LAC JEMEZ MOUNTAIN  
 REGIONAL FIRE  
 PROTECTION SYSTEM  
 PHASE 3**

---

PROJECT NAME	DATE	REV.	DESCRIPTION
	03/12/26	IFC	ISSUED FOR CONSTRUCTION
		MAB	BY

---

PROJECT NO: 20-600-894-03  
 DESIGNED BY: MAB  
 DRAWN BY: MAB  
 CHECKED BY: WBR  
 DATE:

**STRUCTURAL GENERAL NOTES**

---

SHEET NO: **S-001**

CONCRETE

- MINIMUM COMPRESSIVE STRENGTH AT 28 DAYS.
  - EXTERIOR SLABS ON GRADE AND MISCELLANEOUS EQUIPMENT PADS: 4000 psi
  - INTERIOR SLABS ON GRADE: 4000 psi
  - ALL OTHER CONCRETE: 3000 psi
- CONCRETE JOINTS
  - SLABS ON GRADE
    - USE CONCRETE SLAB CONTROL OR CONSTRUCTION JOINTS AS SHOWN ON PLANS AND TYPICAL DETAILS.
    - AT JUNCTION OF SLABS ON GRADE AND VERTICAL CONCRETE OR MASONRY WALL OR COLUMNS, USE BOND BREAKER OR EXPANSION JOINT AS SHOWN ON DRAWINGS.
  - FOOTINGS: USE TIGHT BUTT JOINTS WITH ALL HORIZONTAL REINFORCING CONTINUOUS THROUGH THE JOINT, AT LOCATIONS DETERMINED BY THE CONTRACTOR.
  - CONCRETE STEM WALLS, SITE WALLS, AND RETAINING WALLS: USE VERTICAL CONTROL OR CONSTRUCTION JOINT AS SHOWN ON TYPICAL DETAILS AT A MAXIMUM HORIZONTAL SPACING OF TWICE THE WALL HEIGHT AND NOT MORE THAN 20-FEET.
  - CONCRETE BEAMS, COLUMNS, BUILDING WALLS, AND SUSPENDED SLABS:
    - LOCATE VERTICAL AND HORIZONTAL CONSTRUCTION JOINTS AS SHOWN ON DRAWINGS.
    - UNLESS NOTED OTHERWISE, REINFORCING SHALL BE CONTINUOUS THROUGH JOINTS. CONTRACTOR SHALL SUBMIT FOR REVIEW AND APPROVAL TO THE ENGINEER, PROPOSED LOCATIONS FOR ANY CONSTRUCTION JOINTS NOT SHOWN ON THE DRAWINGS. ADDITIONAL CONSTRUCTION JOINTS MAY REQUIRE ADDITIONAL REINFORCING, SPECIFIED BY THE ENGINEER. ADDITIONAL REINFORCING REQUIRED SHALL BE PROVIDED AT NO ADDITIONAL COST TO THE OWNER.
- UNLESS NOTED OTHERWISE, CHAMFER ALL EXPOSED EDGES OF CONCRETE 3/4-INCHES.
- EMBEDDED PIPES, CONDUITS AND SLEEVES: SEE TYPICAL DETAILS FOR EMBEDS ALLOWED IN CONCRETE. SUBMIT TO THE ENGINEER ANY ADDITIONAL EMBEDS FOR REVIEW AND APPROVAL, NOT CONFORMING TO TYPICAL DETAILS. ADDITIONAL EMBEDS MAY REQUIRE ADDITIONAL REINFORCING, SPECIFIED BY THE ENGINEER. ADDITIONAL REINFORCING REQUIRED SHALL BE PROVIDED AT NO ADDITIONAL COST TO THE OWNER.

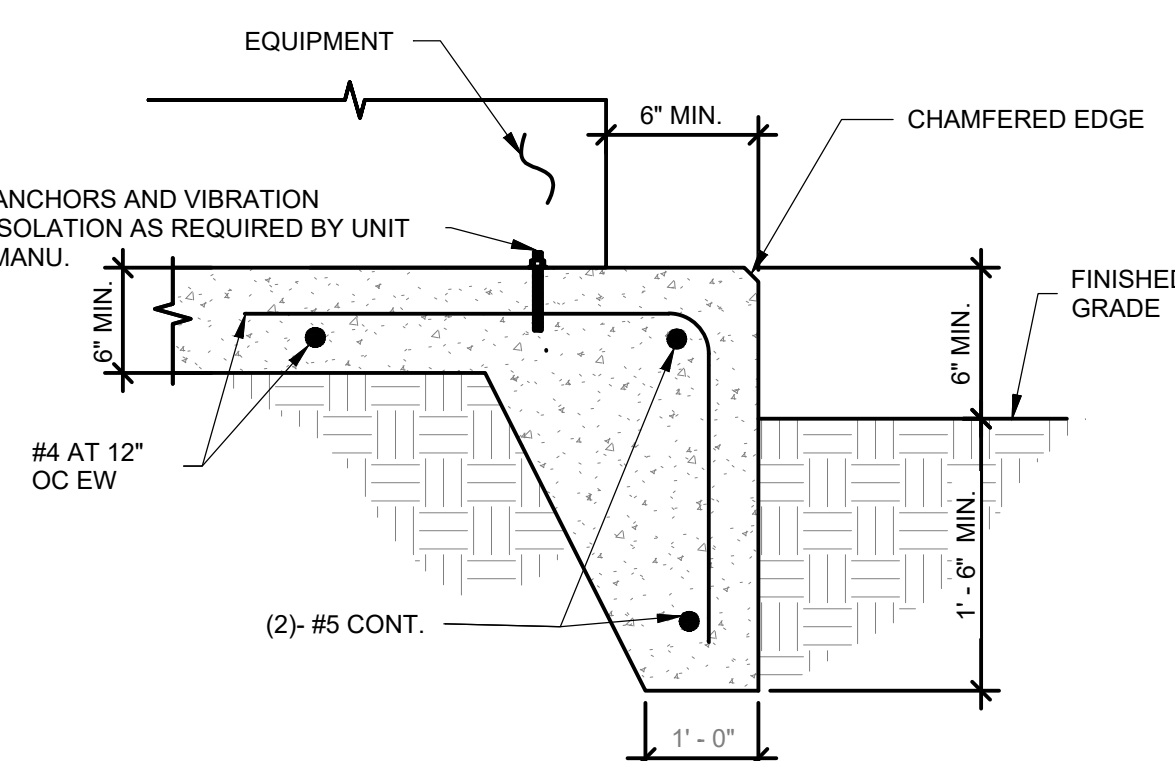
CONCRETE REINFORCING

- FABRICATE AND PLACE REINFORCING IN ACCORDANCE WITH ACI 318, BUILDING CODE REQUIREMENTS FOR STRUCTURAL CONCRETE AND ACI 315, DETAILS AND DETAILING OF CONCRETE REINFORCING.
- ALL CONCRETE REINFORCING TO BE ASTM A615 GRADE 60 ( $f_y = 60,000$  psi).
- CONCRETE REINFORCING SHALL NOT BE TACK WELDED OR WELDED.
- HEAT SHALL NOT BE APPLIED TO COLD REINFORCING TO BEND IN THE FIELD FOR PLACEMENT.
- REINFORCING SPLICES SHALL CONFORM TO THE TABLE PROVIDED ON THIS SHEET. CLASS B SPLICES SHALL BE USED UNLESS OTHERWISE NOTED.
- CONCRETE CLEAR COVER TO REINFORCING SHALL BE AS FOLLOWS AND AS SPECIFIED PER ACI 318, UNLESS NOTED OTHERWISE.
 

A. CONCRETE CAST AND PERMANENTLY EXPOSED TO EARTH:	3 - INCHES
B. CONCRETE EXPOSED TO WEATHER:	
• NO. 6 THROUGH NO. 11 BAR:	2 - INCHES
• NO. 5 BAR AND SMALLER:	1 1/2 - INCHES
C. CONCRETE NOT EXPOSED TO WEATHER NOR IN CONTACT WITH EARTH:	
• IN CONCRETE SLABS, AND WALL: NO. 11 BARS AND SMALLER:	3/4 - INCH
• IN CONCRETE BEAMS AND COLUMNS:	1 1/2 - INCHES
D. SLABS ON GRADE:	
THICKNESS:	COVER (FROM TOP OF SLAB):
4" - 5"	1 1/2"
6"	2"
7" - 8" AND THICKER	2 1/2"
- USE BAR SUPPORTS AND SPACERS IN ACCORDANCE WITH ACI 318. REINFORCING FOR SLABS ON GRADE, PLASTIC CHAIRS AND OR SAND/ADOBLE BLOCKS ARE PERMITTED.
- HORIZONTAL REINFORCING IN FOOTINGS, WALLS, AND BEAMS SHALL BE CONTINUOUS AROUND CORNERS OR USE CORNER BARS OF THE SAME SIZE AND SPACING AS THE HORIZONTAL BARS AND LAP A MINIMUM OF 30 BAR DIAMETERS OR 24-INCHES, WHICHEVER IS GREATER.
- AT TEMPORARY OR PERMANENT REENTRANT CORNERS OF CONCRETE SLABS, AND AT DISCONTINUOUS ENDS OF CONCRETE SLAB CONTROL JOINTS, USE TWO #4 x 4'-0" AT 45 DEGREES TO THE MAIN REINFORCING. SPACE BARS 2-INCHES APART (MIN.) AND 2-INCHES FROM CORNER.
- USE STANDARD HOOKS IN TOP BARS AT DISCONTINUOUS AND CANTILEVERED ENDS OF BEAMS.

**MAXIMUM SPACING OF CONTROL JOINTS SCHEDULE**

SLAB THICKNESS	SLUMP 4" TO 6"		SLUMP LESS THAN 4"
	MAXIMUM AGGREGATE SIZE LESS THAN 3/4"	MAXIMUM AGGREGATE SIZE 3/4" AND LARGER	
6"	12'	15'	18'



12 TYPICAL EXTERIOR MECHANICAL EQUIP FOUNDATION  
S002 SCALE: NTS

**SPLICE LENGTHS FOR REINFORCEMENT IN NORMAL WIEGHT CONCRETE**

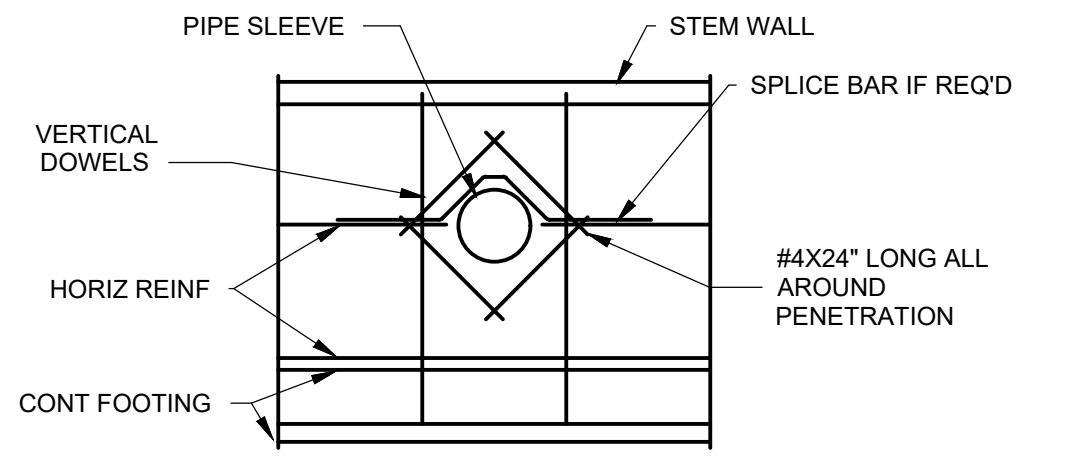
REINFORCING YIELD STRENGTH 60 KSI  
CONCRETE COMPRESSIVE STRENGTH 4000 KSI

BAR SIZE	AREA, in <sup>2</sup>	DIA, in	CLEAR SPACING TO NEAREST ADJACENT BAR, in	Bottom Bars			Top Bars		
				MINIMUM EMBEDMENT LENGTH, in	CLASS "A" SPLICE LENGTH, in	CLASS "B" SPLICE LENGTH, in	MINIMUM EMBEDMENT LENGTH, in	CLASS "A" SPLICE LENGTH, in	CLASS "B" SPLICE LENGTH, in
#3	0.11	0.375	0.00 TO 0.75	21.35	22	28	27.75	28	37
			0.76 AND ABOVE	14.23	15	19	18.50	19	25
#4	0.20	0.500	0.00 TO 1.00	28.46	29	37	37.00	37	49
			1.01 AND ABOVE	18.97	19	25	24.67	25	33
#5	0.31	0.625	0.00 TO 0.75	35.58	36	47	46.25	47	61
			0.76 AND ABOVE	23.72	24	31	30.83	31	41
#6	0.44	0.750	0.00 TO 0.75	42.69	43	56	55.50	56	73
			0.76 AND ABOVE	28.46	29	37	37.00	37	49
#7	0.60	0.875	0.00 TO 0.75	62.26	63	81	80.93	81	106
			0.76 AND ABOVE	41.5	42	54	53.96	54	71
#8	0.79	1.000	0.00 TO 0.75	71.15	72	93	92.50	93	121
			0.76 AND ABOVE	47.43	48	62	61.66	62	81
#9	1.00	1.128	0.00 TO 0.75	80.28	81	105	104.34	105	136
			0.76 AND ABOVE	53.51	54	70	69.56	70	91
#10	1.27	1.270	0.00 TO 0.75	90.36	91	118	117.47	118	163
			0.76 AND ABOVE	60.24	61	79	78.31	79	102
#11	1.56	1.410	0.00 TO 0.75	100.32	101	131	130.42	131	170
			0.76 AND ABOVE	66.88	67	87	86.95	87	114

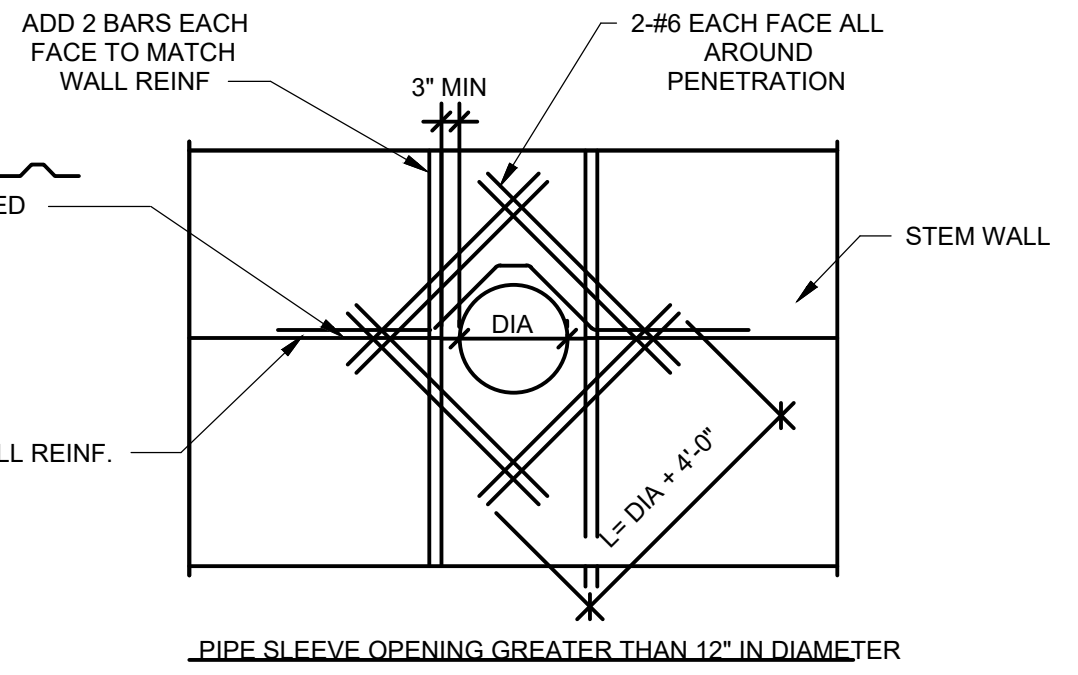
1. TOP BARS ARE HORIZONTAL BARS SO PLACED THAT MORE THAN 12 INCHES OF FRESH CONCRETE IS CAST IN THE MEMBER BELOW THE BAR.  
2. MULTIPLY REQUIRED LENGTH BY 1.15 FOR REQUIRED LENGTHS FOR 3000 PSI CONCRETE.  
NOTE: ALL SPLICES TO BE CLASS B EXCEPT ONE HALF OR LESS OF THE TOTAL REINFORCEMENT IS SPLICED WITHIN THE REQUIRED LAP LENGTH.

SPLICE LENGTH NOTES:

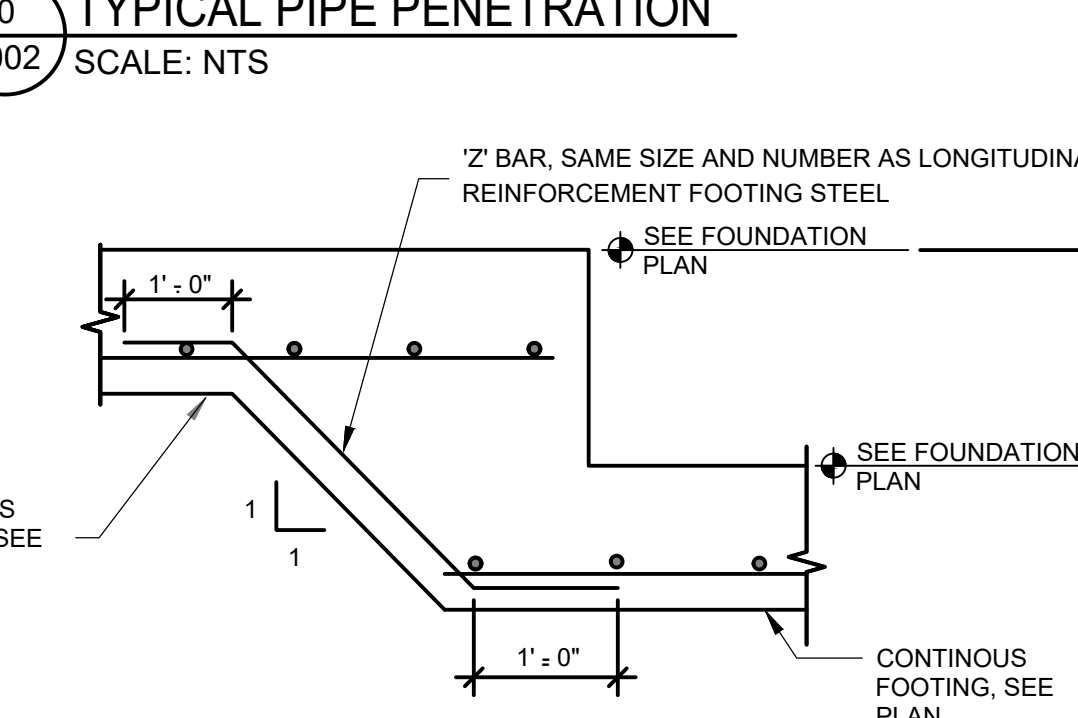
- CLASS A LAP LENGTHS APPLY WHEN BAR LAPS ARE STAGGERED TO LAP HALF THE BARS AT THE SAME LOCATION OR WHEN BARS ARE LAPPED AT A LOCATION WHERE THE REINFORCEMENT AREA IS AT LEAST TWICE THAT REQUIRED.
- CLASS B LAP LENGTHS APPLY WHEN ALL BARS ARE SPLICED AT A LOCATION OF MAXIMUM STRESS IN THE BARS.
- MINIMUM CONCRETE COVER MEASURED FROM THE BAR CENTER SHALL BE AT LEAST HALF THE MINIMUM CENTER TO CENTER OF BAR SPACING.
- FOR 4500 psi CONCRETE, MULTIPLY LENGTHS BY 0.816. BOTTOM BARS SHALL NOT HAVE AN EMBEDMENT LENGTH, FOR CLASS A SPLICE AND CLASS B SPLICE LENGTHS, OF LESS THAN 12-INCHES.



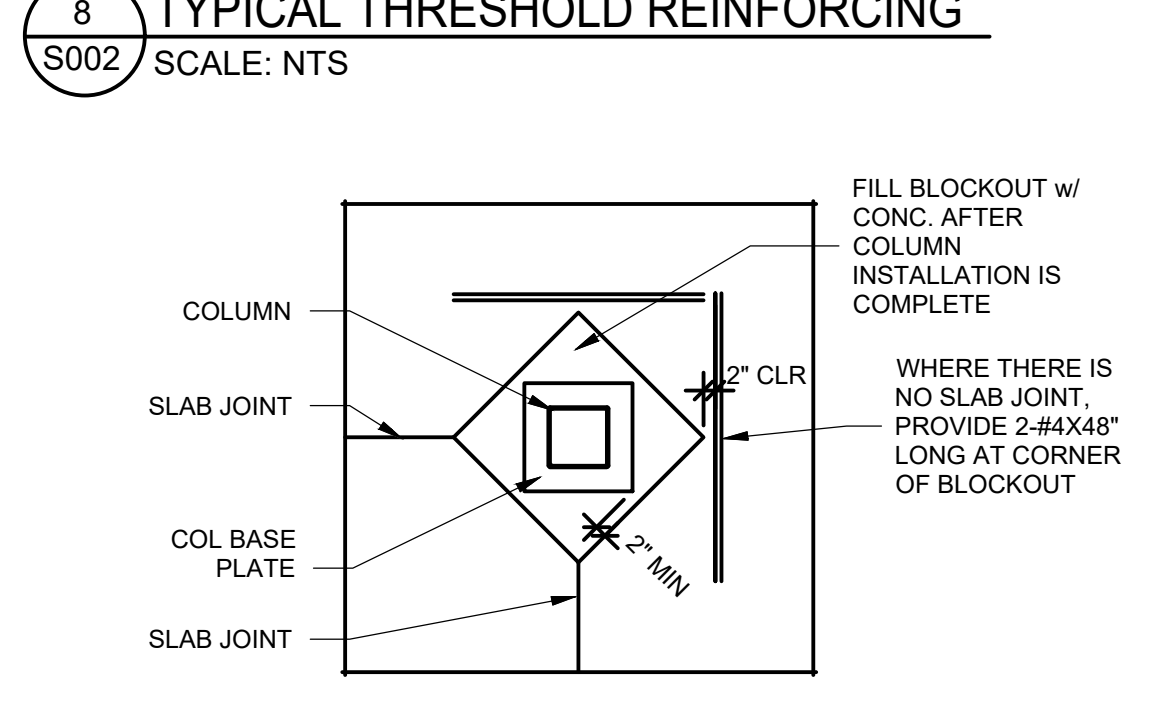
6 TYPICAL DEPRESSED SLAB  
S002 SCALE: NTS



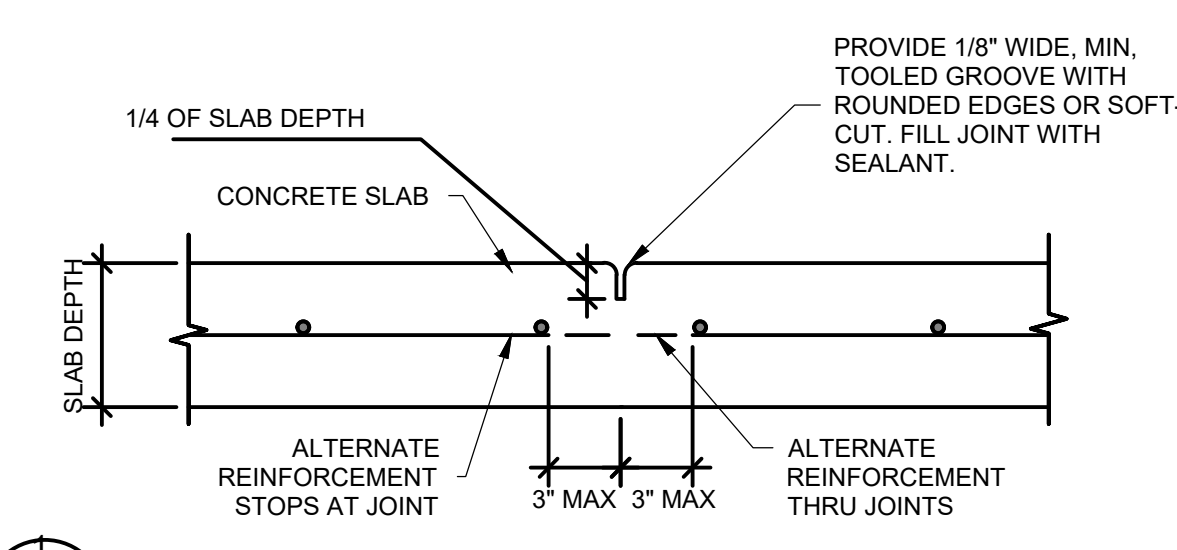
7 TYPICAL HOUSEKEEPING PAD  
S002 SCALE: NTS



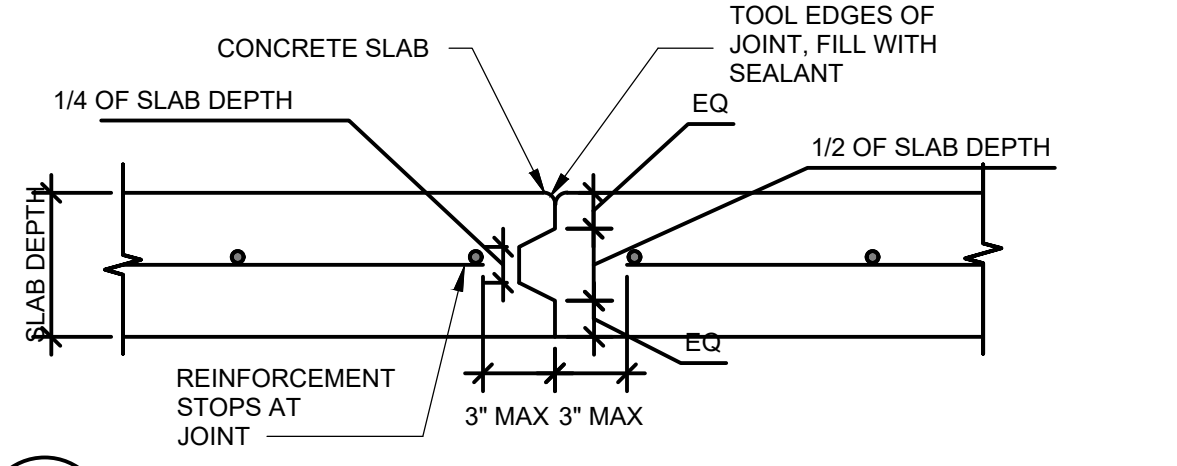
10 TYPICAL PIPE PENETRATION  
S002 SCALE: NTS



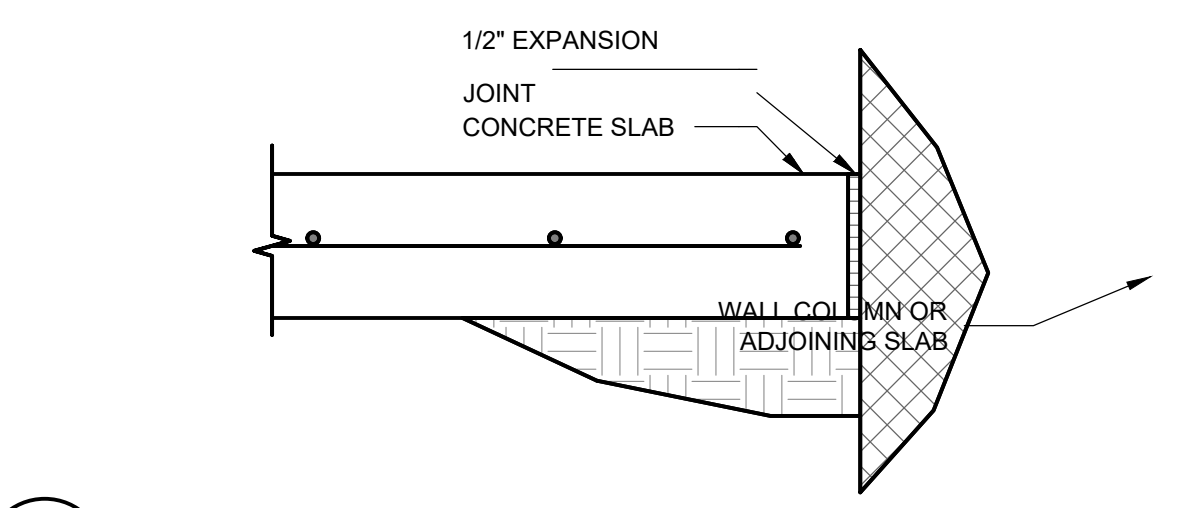
9 TYPICAL REENTRANT CORNER  
S002 SCALE: NTS



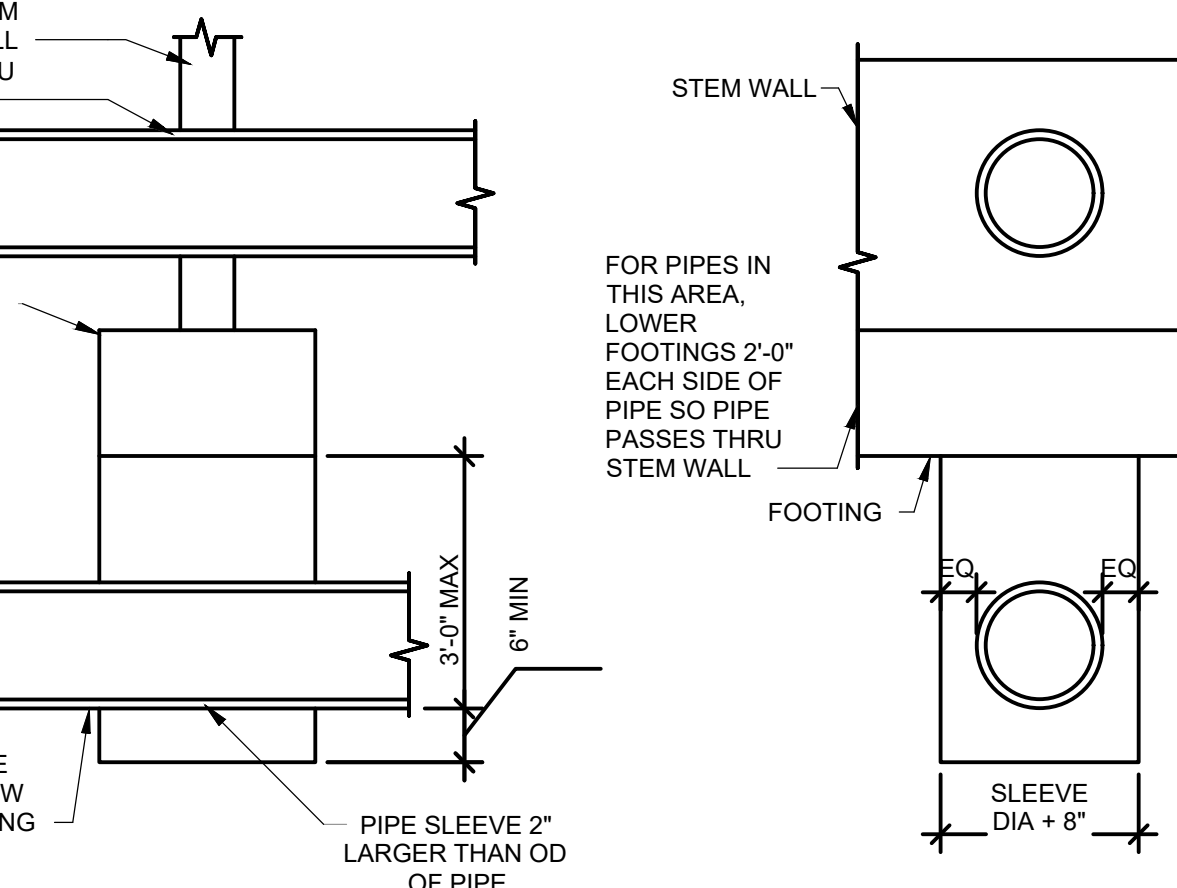
1 TYPICAL CONTROL JOINT  
S002 SCALE: NTS



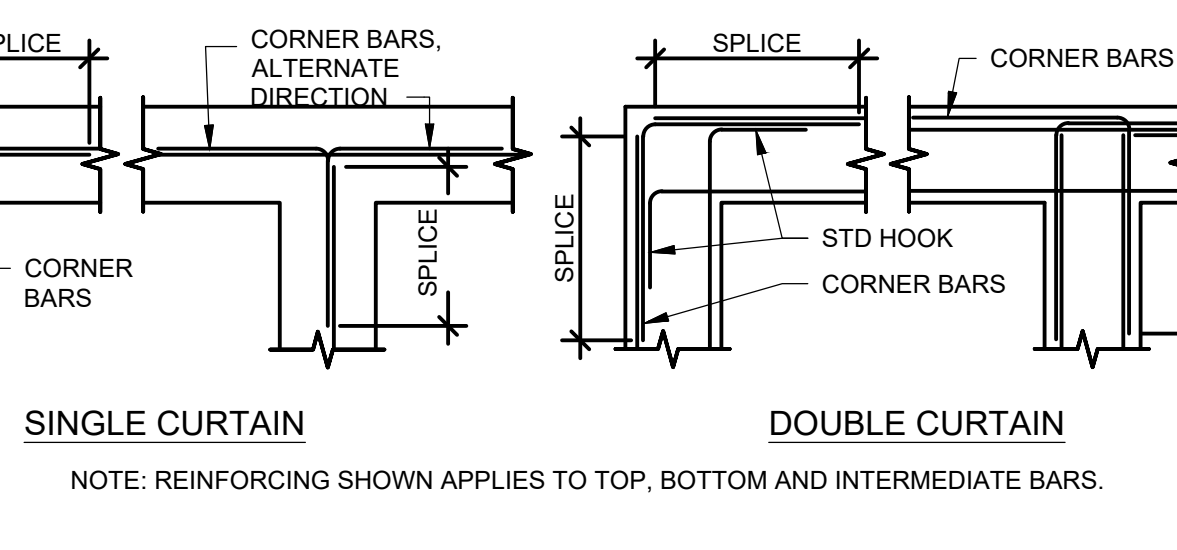
2 TYPICAL CONSTRUCTION JOINT  
S002 SCALE: NTS



3 TYPICAL EXPANSION JOINT  
S002 SCALE: NTS



4 TYPICAL PIPE PENETRATION AT FOUNDATION  
S002 SCALE: NTS



5 TYPICAL CONCRETE CORNER REINFORCING  
S002 SCALE: NTS

**WILSON & COMPANY**  
2600 THE AMERICAN RD. SE SUITE 100  
RIO RANCHO, NM 87124  
PHONE: 505-898-8011  
FAX: 505-898-8501  
www.wilsonco.com

CONSULTANTS

WILL B. ROSS  
NEW MEXICO  
25648  
Wilson  
PROFESSIONAL ENGINEER  
03/12/26

PROJECT NAME  
**LAC JEMEZ MOUNTAIN REGIONAL FIRE PROTECTION SYSTEM PHASE 3**

NO.	REV.	DATE	DESCRIPTION	ISSUED FOR CONSTRUCTION	MAB	BY

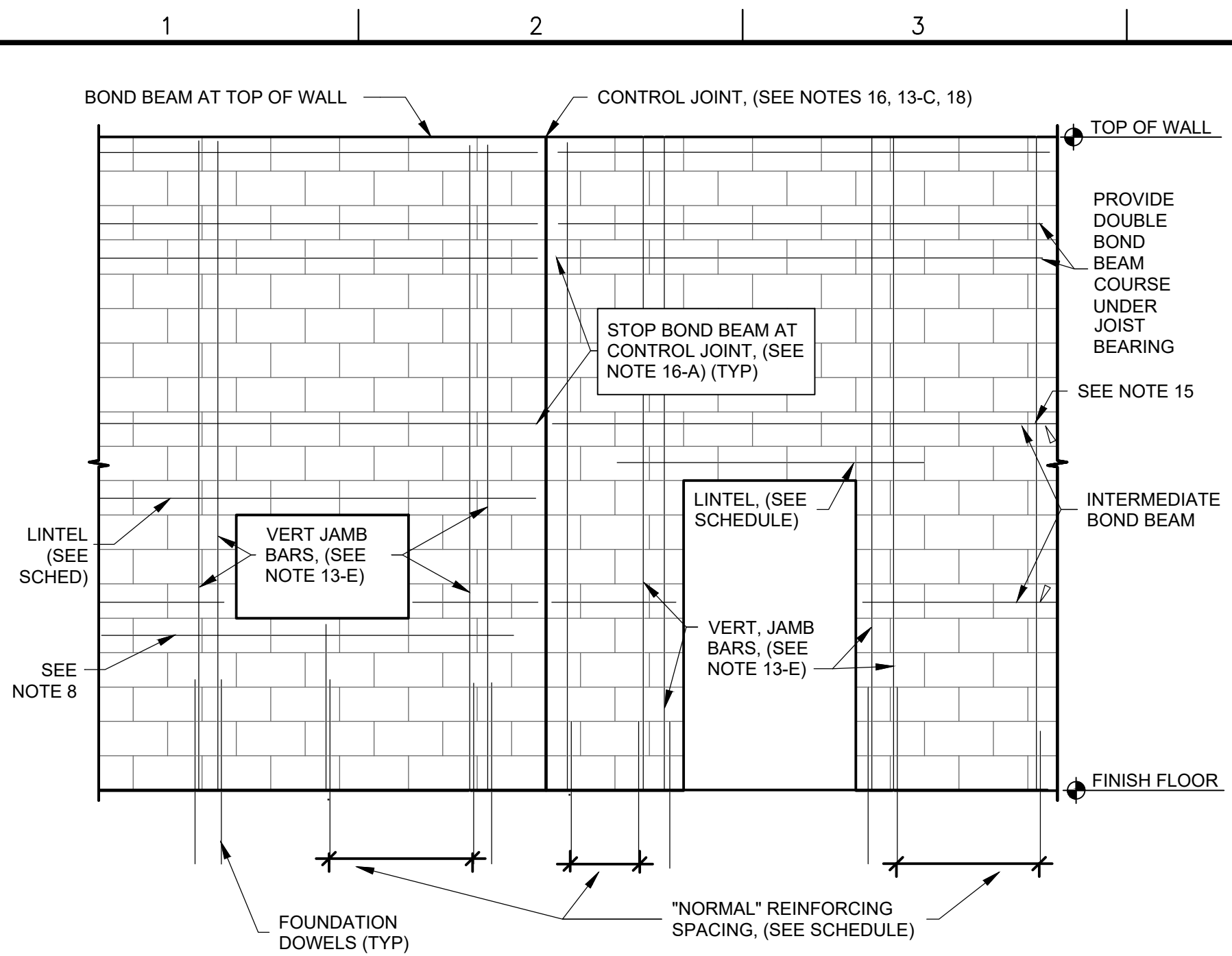
PROJECT NO: 20-600-894-03  
DESIGNED BY: MAB  
DRAWN BY: MAB  
CHECKED BY: WBR  
DATE:  

SHEET TITLE  
**TYPICAL CONCRETE NOTES AND DETAILS**

SHEET NO:  
**S-002**

3/11/2026 M:\MSDL\_Library\01 Structural Engineering - Buildings\Projects\2024\24021 Camp May\Drawings\Structural\S002 Concrete Notes.dwg

3/11/2026 M:\MSD\_Library\01 Structural Engineering - Buildings\Projects\2024\24021 Camp May\Drawings\Structural\S003 Masonry Notes.dwg



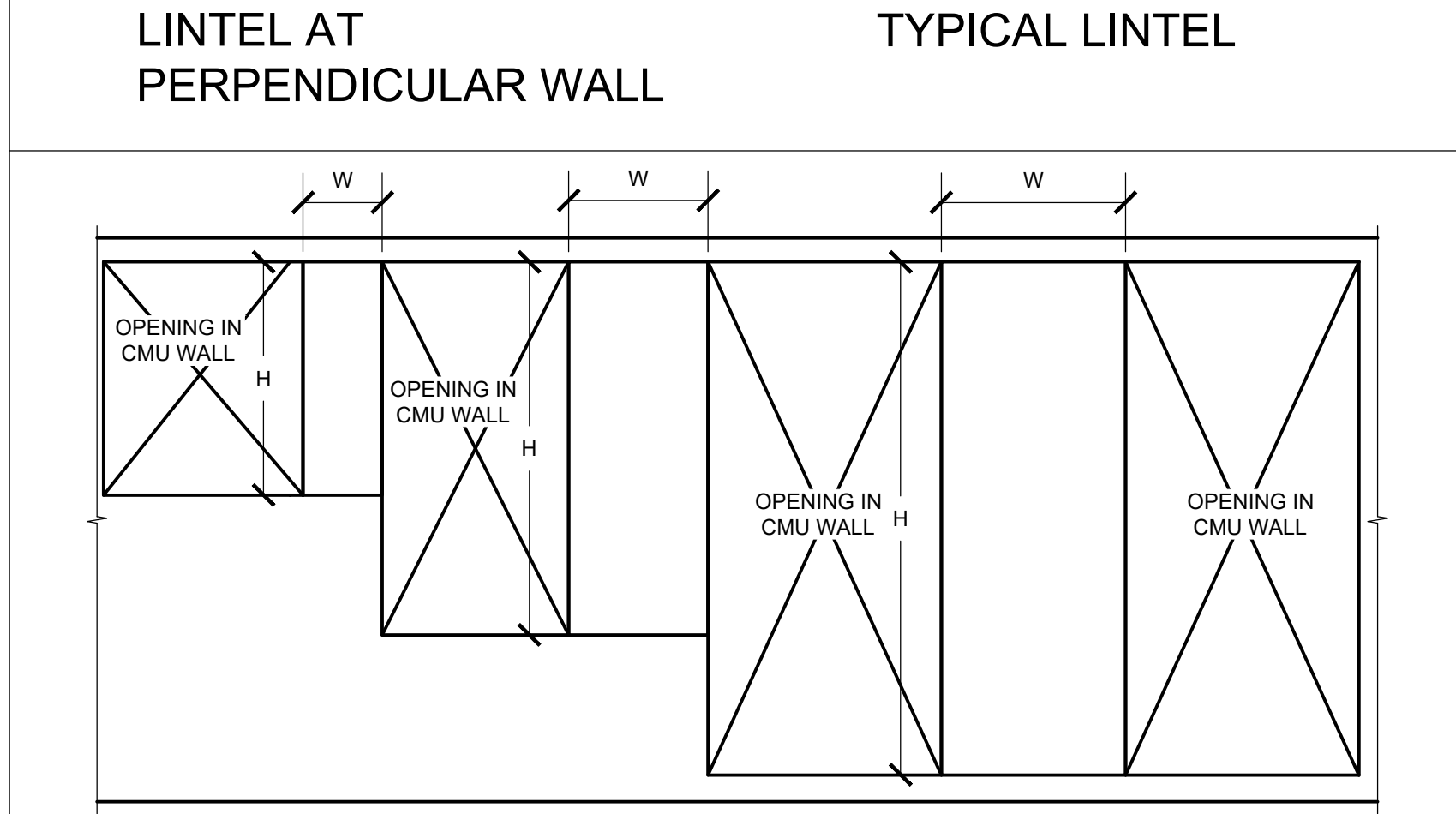
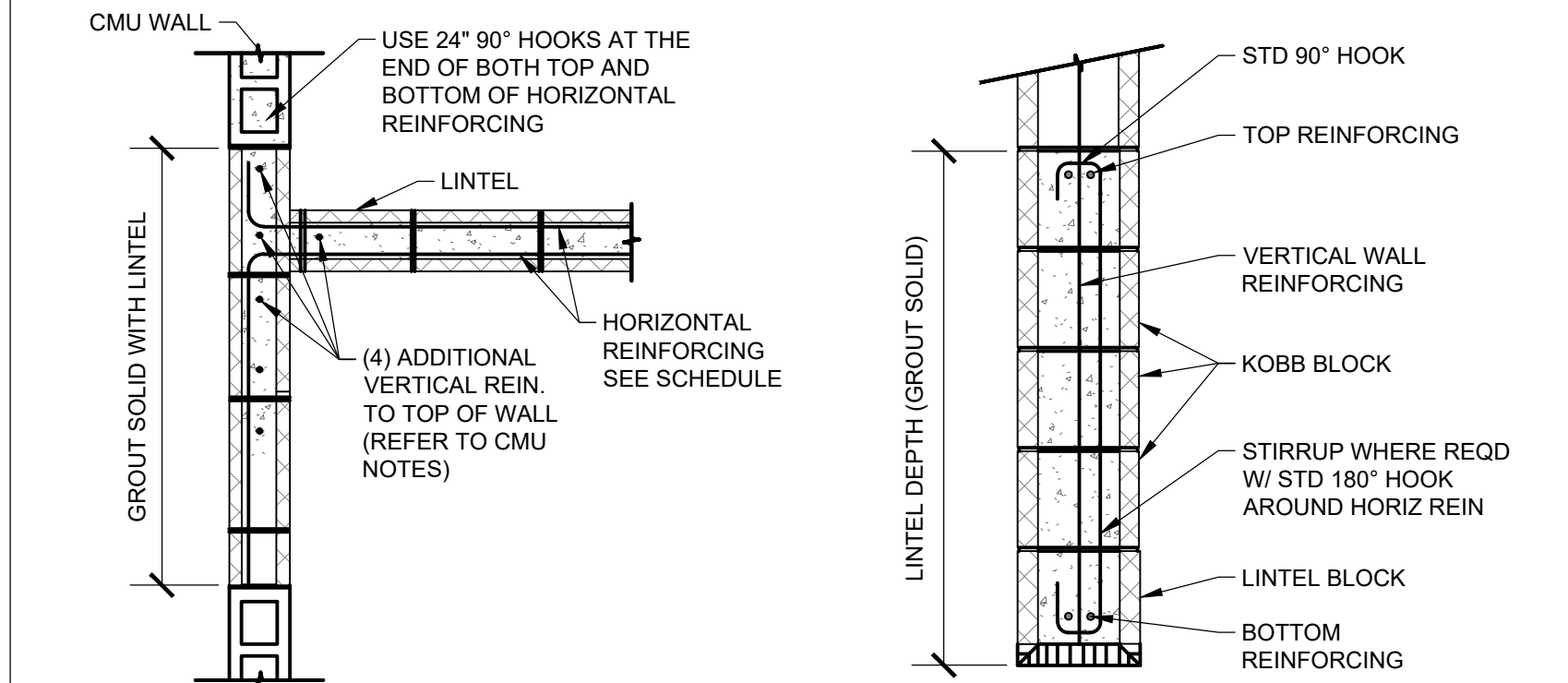
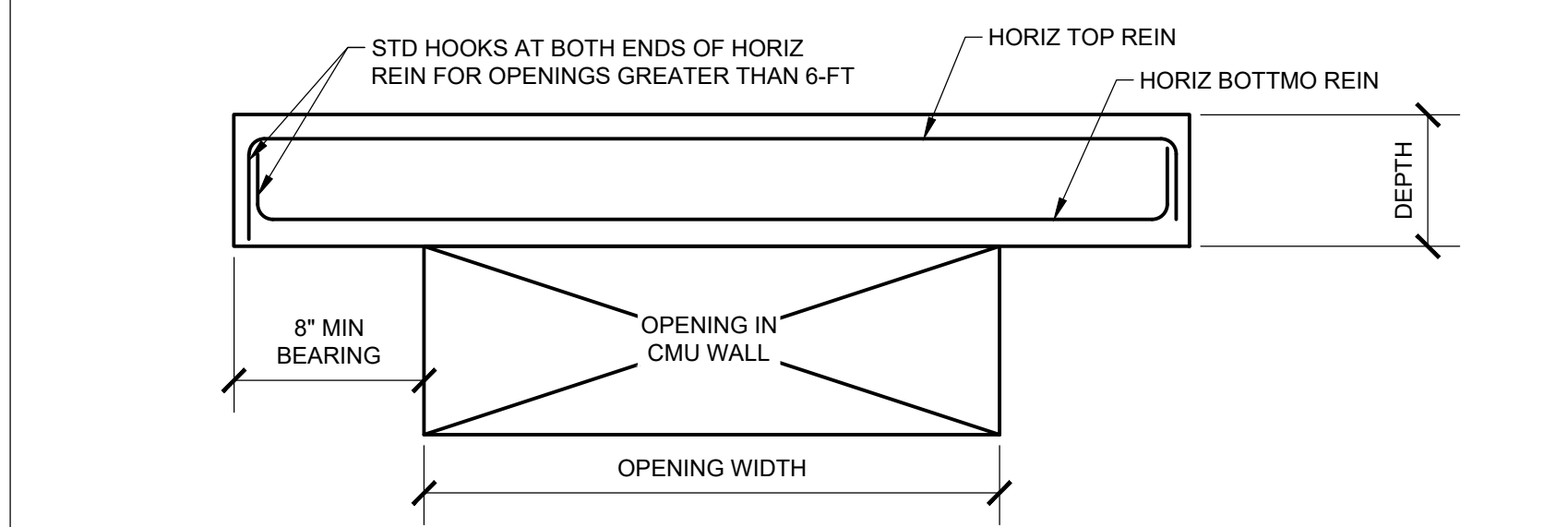
**MASONRY:**

- MASONRY DESIGN SHALL COMPLY WITH TMS 402-11 (ACI 530-11) AND THE APPLICABLE REQUIREMENTS OF THE CURRENT INTERNATIONAL BUILDING CODE. MASONRY CONSTRUCTION SHALL COMPLY WITH THE CURRENT IBC SPECIFICATION, TMS 602-11 (ACI 530-1-11), REQUIREMENTS OF THE PROJECT CONSTRUCTION DOCUMENTS, AND THESE PLANS AND SPECIFICATIONS. IF THERE IS A CONFLICT THE MOST STRINGENT REQUIREMENT SHALL APPLY.
- MASONRY SHALL CONFORM TO THE REQUIREMENTS OF ASTM C90 OR C129. THE MINIMUM DESIGN 28 DAY COMPRESSIVE STRENGTH OF MASONRY:  $f_m = 1,500$  psi.
- MORTAR SHALL CONFORM TO THE REQUIREMENTS OF ASTM C270. USE MORTAR TYPE S (UNLESS OTHERWISE NOTED) WITH A MINIMUM 28 DAY COMPRESSIVE STRENGTH OF 1,800 psi.
- GROUT SHALL CONFORM TO THE REQUIREMENTS OF ASTM C476. THE MINIMUM 28 DAY COMPRESSIVE STRENGTH OF GROUT: 2,000 psi
- ALL CELLS WITH REINFORCEMENT SHALL BE GROUTED SOLID FROM THE BOTTOM TO THE TOP OF THE WALL, INCLUDING BOND BEAMS.
- VERTICAL AND HORIZONTAL REINFORCING SHALL BE PLACED AS SHOWN ON THE DRAWINGS AND AS INDICATED ON THE MASONRY WALL SCHEDULE.
- REINFORCING STEEL SHALL CONFORM TO THE REQUIREMENTS OF ASTM A615. MASONRY JOINT REINFORCING SHALL CONFORM TO ASTM A951 FOR LADDER OR TRUSS TYPE, ASTM A496 FOR DEFORMED WIRE, OR ASTM A185/ASTM A497 FOR WELDED WIRE AN INSTALLED PER TMS 602-11. WALL JOINT REINFORCEMENT EXPOSED TO THE EXTERIOR SHALL CONFORM TO THE REQUIREMENTS OF ASTM A580. FOR STAINLESS STEEL JOINT REINFORCEMENT.
- ALL REBAR SHALL BE LAPPED THE LARGER OF 40 DIAMETERS OR 2'-0".
- SPLICES IN HORIZONTAL REINFORCING WITHIN CONTROL JOINTED PANELS ARE NOT PERMITTED EXCEPT AT CORNERS. REBAR SHALL HAVE 1/2" MINIMUM CLEARANCE FROM INSIDE FACE OF CMU.
- REBAR AROUND PERIMETER OF OPENINGS SHALL EXTEND BEYOND CORNERS OF OPENINGS THE LARGER OF 40 BAR DIAMETERS OR 2'-0".
- VERTICAL CELLS SHALL HAVE VERTICAL ALIGNMENT SUFFICIENT TO MAINTAIN A CLEAR UNOBSTRUCTED CONTINUOUS VERTICAL CELL NOT LESS THAN 2" X 3" IN PLAN.
- VERTICAL BARS SHALL BE HELD IN PLACE WITH CENTERING CLIPS, SPACERS, TIES, OR BY OTHER APPROVED METHODS.
- FOUNDATION DOWELS SHALL BE EMBEDDED IN AND EXTEND OUT OF THE FOUNDATION AT LOCATIONS WHERE VERTICAL MASONRY BARS ARE REQUIRED. DOWELS SHALL MATCH THE BAR SIZE AND LAP SPICED WITH VERTICAL MASONRY REINFORCING.
- VERTICAL WALL REINFORCING SHALL EXTEND FROM THE TOP OF THE FOUNDATION TO THE TOP OF THE WALL AND BE EMBEDDED AT LEAST 6-INCHES INTO THE TOP BOND BEAM.
- IN ADDITION TO WALL SCHEDULE REINFORCING, PROVIDE ONE VERTICAL BAR (SAME BAR SIZE AS WALL SCHEDULE) IN MASONRY CELLS AT THE FOLLOWING LOCATIONS:
  - THREE ADJACENT CELLS AT ALL CORNERS:
  - TWO CELLS AT THE END OF THE DISCONTINUOUS WALLS:
  - TWO CELLS EACH SIDE OF ALL CONTROL OR EXPANSION JOINTS:
  - FOUR ADJACENT CELLS AT THE INTERSECTION OF THE TWO WALLS:
  - TWO CELLS AT EACH SIDE OF ALL MASONRY WALL OPENINGS:
  - THREE CELLS CENTERED BELOW BEARING POINTS OF FLOOR OR ROOF BEAM:
- MASONRY WALLS SHALL BE CONSTRUCTED AND GROUTED IN 4-FOOT LIFTS MAXIMUM. HIGH LIFT GROUTING, OR MULTI-LIFT GROUTING OF ALL SEGMENTS IS NOT PERMITTED.
- EXTEND VERTICAL REINFORCING IN MASONRY WALLS THROUGH KNOCK OUT BOND BEAM COURSES, UNLESS OTHERWISE NOTED. SEE SCHEDULE ON THIS SHEET FOR BOND BEAM REINFORCING.
- FOR ALL BOND BEAMS, INSTALL ONE CORNER BAR FOR EACH HORIZONTAL BAR. INTERIOR AND EXTERIOR WALL BOND BEAM REINFORCING SHALL BE CONTINUOUS THROUGHOUT, EXCEPT AT CONTROL AND EXPANSION JOINTS. THE FOLLOWING SHALL APPLY TO TYPICAL KNOCK-OUT BOND BEAMS.
  - REINFORCING AT ALL BOND BEAMS SHALL BE DISCONTINUOUS AT CONTROL JOINTS AND EXPANSION JOINTS.
  - REINFORCEMENT IN BOND BEAMS AT FLOOR AND ROOF LEVELS SHALL BE CONTINUOUS.
- ALL MASONRY WORK SHALL HAVE A MINIMUM OF 1/2-INCH CLEARANCE TO STEEL CONSTRUCTION.
- SEE ARCHITECTURAL BUILDING ELEVATIONS FOR LOCATION OF CMU CONTRL JOINTS, UNLESS OTHERWISE SHOWN. ISE MASONRY CONTROL JOINTS IN INTERIOR WALLS AT THE FOLLOWING LOCATIONS:
  - DISTANCE BETWEEN JOINTS SHOULD NOT EXCEED THE LESSER OF 1 1/2-LENGTH TO HEIGHT RATION OR 24'-FEET.
  - CONTROL JOINTS MUST BE AT LEAST 24-INCHES FROM THE JAMB OF AN OPENING.
- GROUT ALL BEAM AND JOIST POCKETS IN WALLS SOLID AFTER INSTALLING BEAMS AND JOIST, UNLESS NOTED OTHERWISE.
- ANCHORS FOR USE IN CMU SHALL BE SPECIFIED IN THE DRAWINGS OR THE SPECIFICATIONS.
- SEE SHEET S-001 FOR ADHESIVE OR EXPANSION ANCHORS TO BE USED, OR APPROVED EQUAL. MINIMUM EMBEDMENT LENGTHS SHALL BE PER THE TABLES PROVIDED ON SHEET S-001. ANCHORS SHALL BE SUBMITTED TO THE ENGINEER FOR APPROVAL.
- ALL MORTAR JOINTS EXPOSED OR CONCEALED ON CONCRETE MASONRY WALLS SHALL BE TOOLED CONCAVE. ELECTRICAL CONDUITS OR PLUMBING LINES SHALL NOT OCCUPY THE SAME CELL OR BOND BEAM COURSE AS REINFORCING STEEL UNLESS APPROVED BY THE ENGINEER.
- ALL VERTICAL REINFORCING STEEL SHALL BE PLACED WITHIN A 1/2-INCH FROM THE CENTER OF WALL AND WITHIN 2-INCHES (+/-) OF THE SPECIFIED SPACING.
- ALL MORTAR DROPPINGS AND MORTAR FINS WITHIN CELLS GREATER THAN 1/2-INCH SHALL BE REMOVED PRIOR TO GROUT PLACEMENT.
- A MINIMUM OF 24 HOURS SHALL ELAPSE BETWEEN THE COMPLETION OF THE LAY-UP OF A WALL SECTION AND THE GROUTING OF THE SECTION.

**CMU LINTEL SCHEDULE**

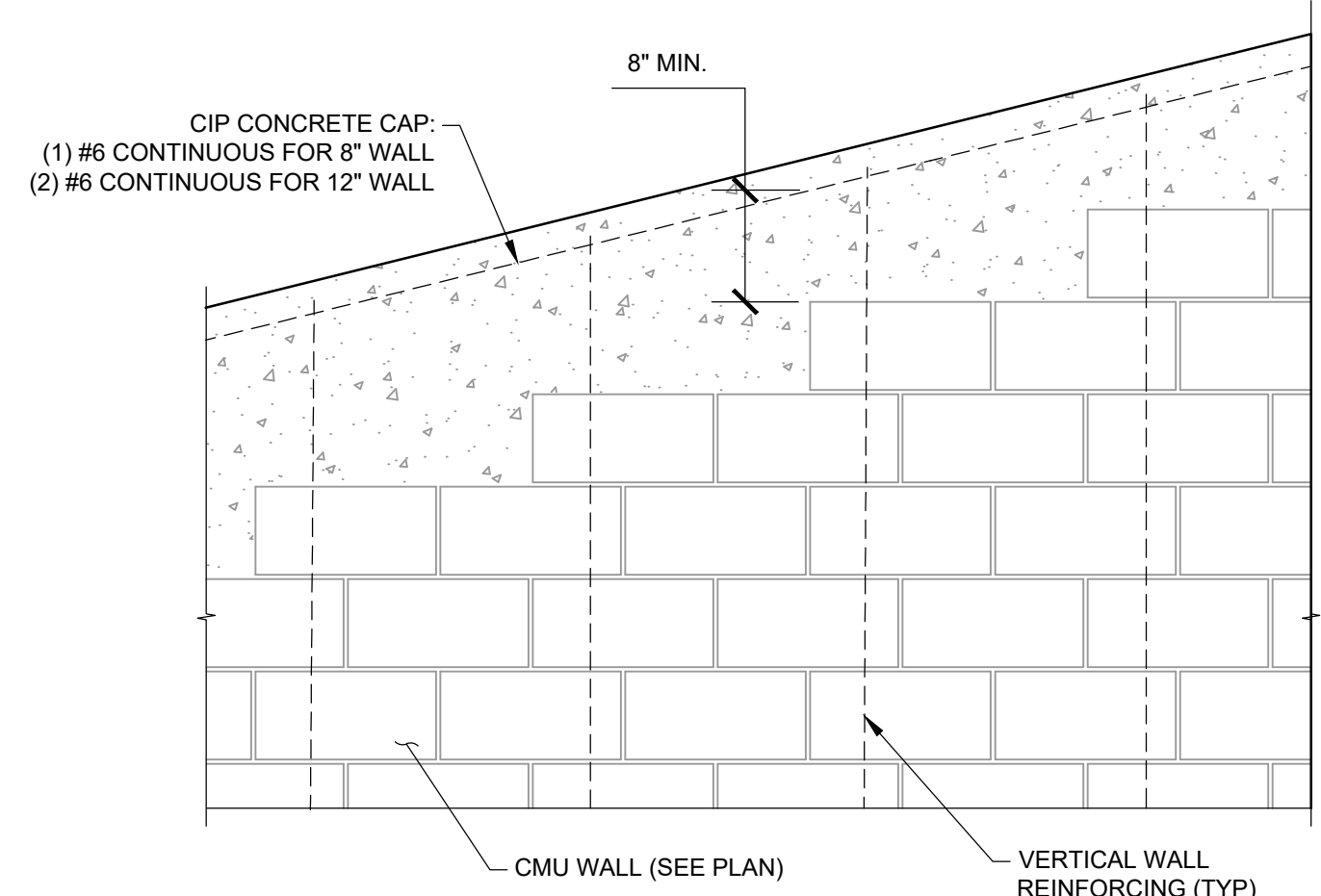
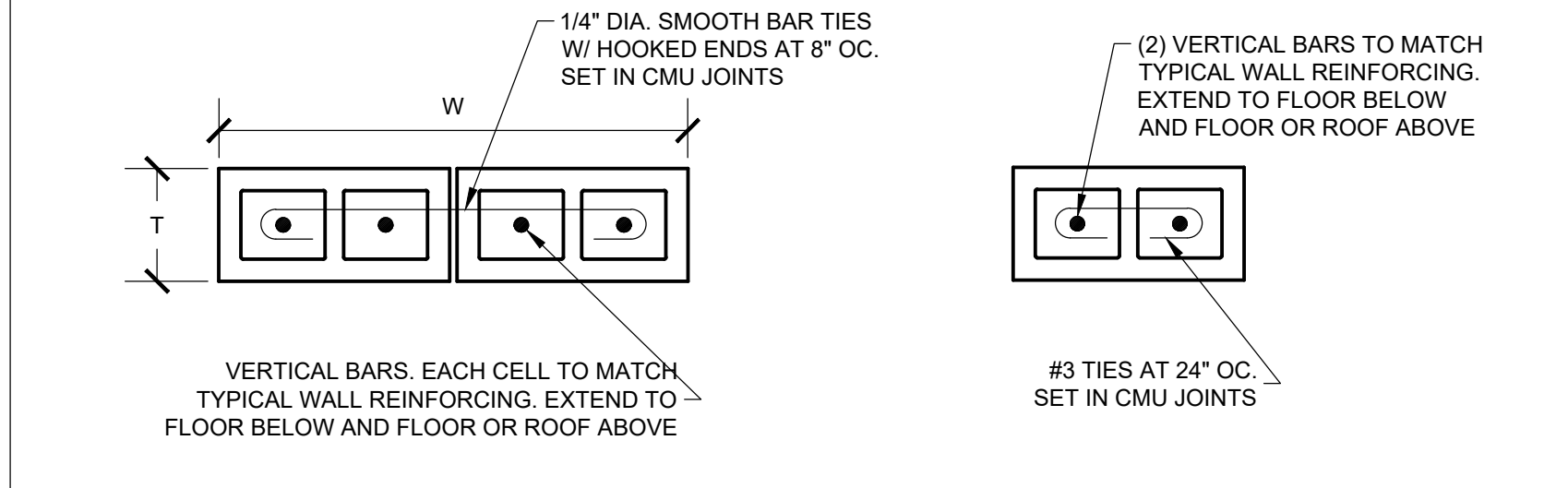
8" (NOMINAL) CMU				12" (NOMINAL) CMU			
OPENING WIDTH	DEPTH	HORIZONTAL BOTTOM REINF.	HORIZONTAL TOP REINF.	OPENING WIDTH	DEPTH	HORIZONTAL BOTTOM REINF.	HORIZONTAL TOP REINF.
3'-4" OR LESS	24"	(1) #6	(1) #6	3'-4" OR LESS	24"	(2) #6	(2) #6
3'-5" TO 6'-1"	32"	(1) #6	(1) #6	3'-5" OR 6'-1"	32"	(2) #6	(2) #6
6'-1" TO 10'-0"	40"	(2) #6	(2) #6	6'-1" TO 10'-0"	40"	(2) #6	(2) #6
10'-0" TO 14'-8"	48"	(2) #6	(2) #6				

- NOTES:**
- ALL LINTELS SHALL HAVE A 8" MINIMUM BEARING LENGTH BEYOND THE WALL OPENING (SEE DETAIL BELOW).
  - LINTEL AND BEARING LENGTH SHALL BE MONOLITHIC. HORIZONTAL REINFORCING SHALL BE CONTINUOUS AND SHALL EXTEND BEYOND THE MASONRY FOR THE FULL BEARING LENGTH OF THE LINTEL (SEE DETAIL BELOW).
  - CMU CONTROL AND EXPANSION JOINTS SHALL NOT PASS THROUGH THE LINTEL OR THE REQUIRED BEARING LENGTH AT EACH END.

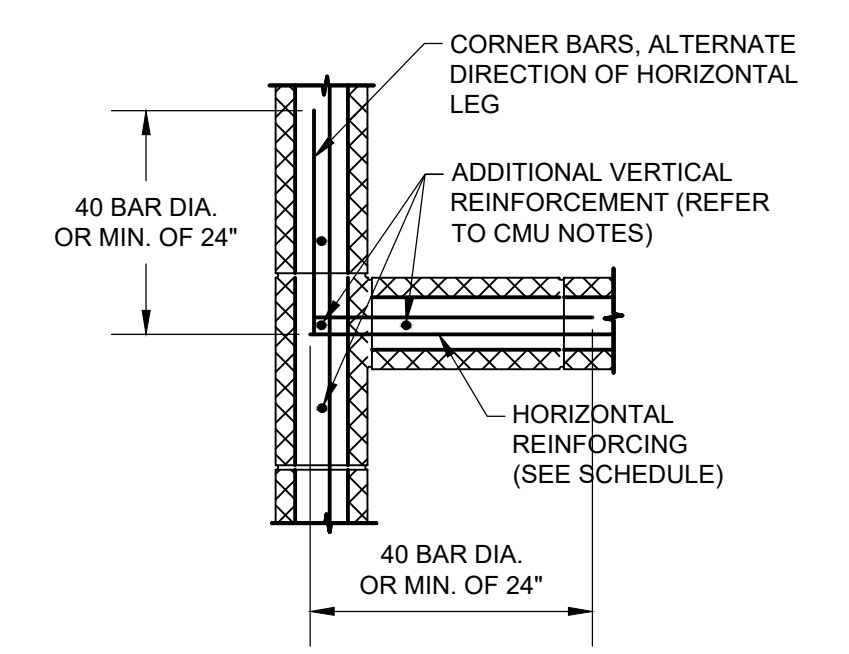


**CMU COLUMN AND PIER SCHEDULE**

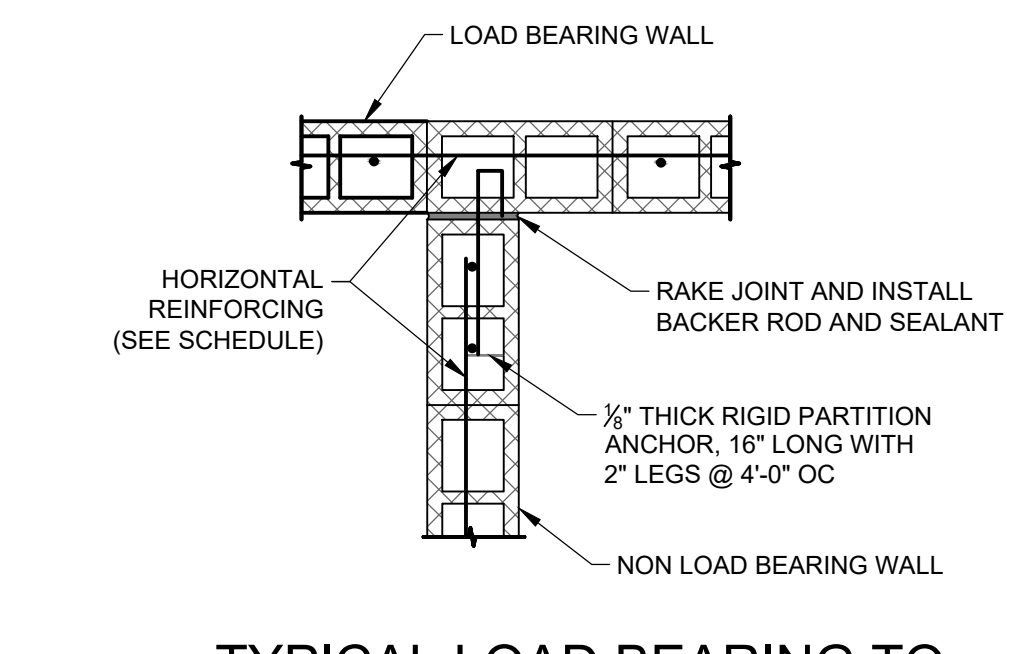
NOMINAL WALL THICKNESS (T)	HEIGHT OF OPENING (H)	USE TYPICAL WALL REINFORCING WHEN:	USE PIER DETAIL WHEN:	USE COLUMN DETAIL WHEN:
8"	H ≥ 24"	W ≥ 40"	24" ≤ W ≤ 40"	W ≤ 24"
12"	H ≥ 32"	W ≥ 64"	40" ≤ W ≤ 64"	W ≤ 40"



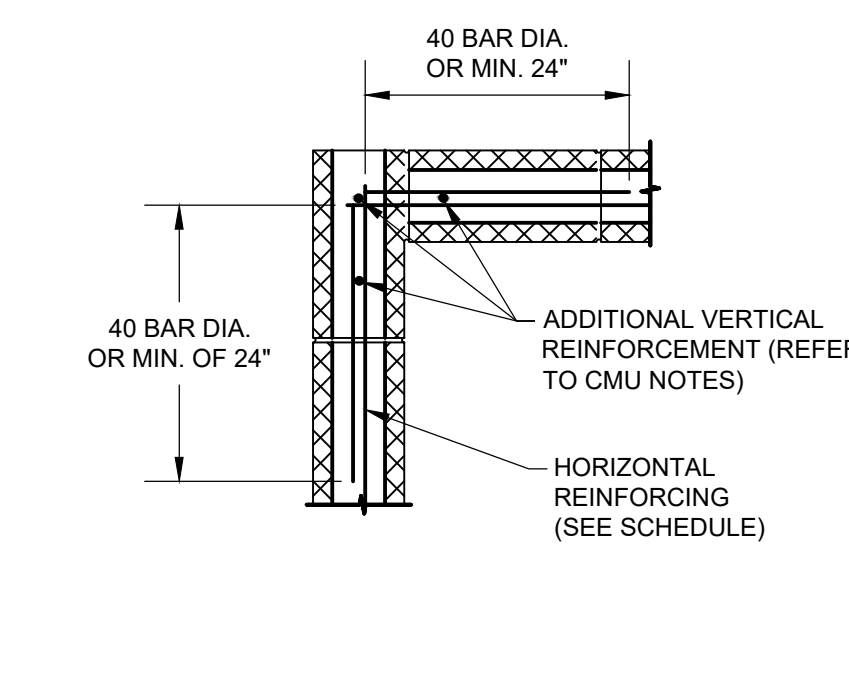
**1 ELEVATION - TOP OF SLOPED MASONRY WALL**  
SCALE: 3/4" = 1'-0"



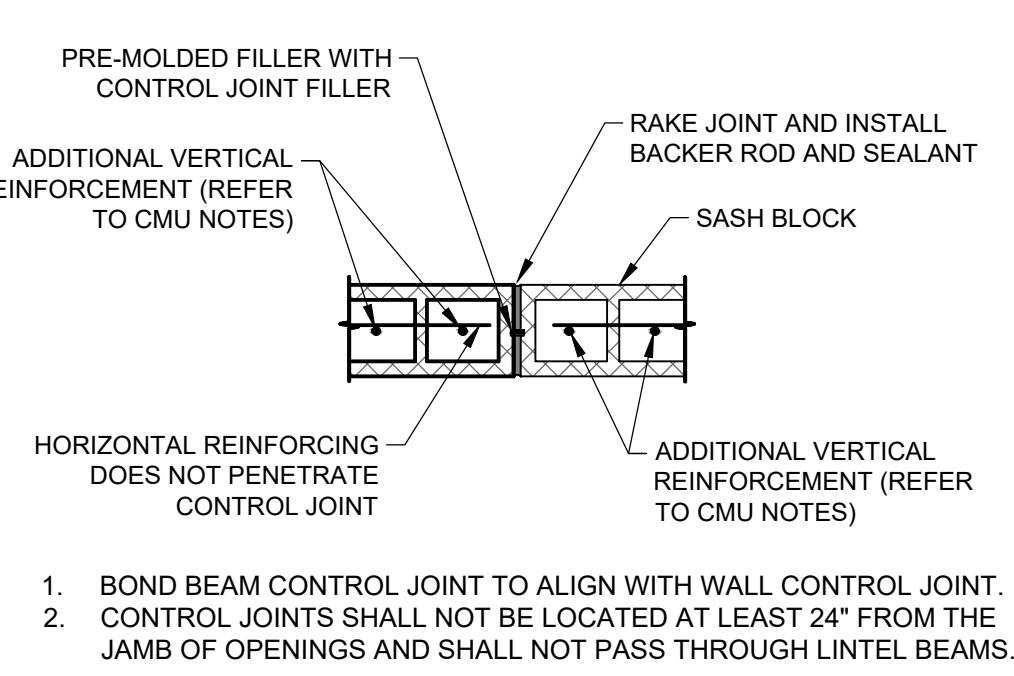
**2 TYPICAL BOND BEAM TEE INTERSECTION**  
SCALE: 3/4" = 1'-0"



**3 TYPICAL LOAD BEARING TO NON LOAD BEARING WALL INTERSECTION**  
SCALE: 3/4" = 1'-0"



**4 TYPICAL BOND BEAM AT CORNER**  
SCALE: 3/4" = 1'-0"



**5 TYPICAL VERTICAL AND HORIZONTAL CONTROL JOINT**  
SCALE: 3/4" = 1'-0"

**WILSON & COMPANY**  
2600 THE AMERICAN RD. SE SUITE 100  
RIO RANCHO, NM 87124  
PHONE: 505-898-8021  
FAX: 505-898-8501  
www.wilsonco.com

CONSULTANTS

WILL B. ROSS  
NEW MEXICO  
25648  
WILSON  
PROFESSIONAL ENGINEER  
03/12/26

PROJECT NAME  
**LAC JEMEZ MOUNTAIN REGIONAL FIRE PROTECTION SYSTEM PHASE 3**

NO.	DESCRIPTION	DATE	REV.	IFC	ISSUED FOR CONSTRUCTION	MAB	BY

PROJECT NO: 20-600-894-03  
DESIGNED BY: MAB  
DRAWN BY: MAB  
CHECKED BY: WBR

DATE: 03/12/26  
SHEET TITLE  
**MASONRY NOTES**

SHEET NO: **S-003**

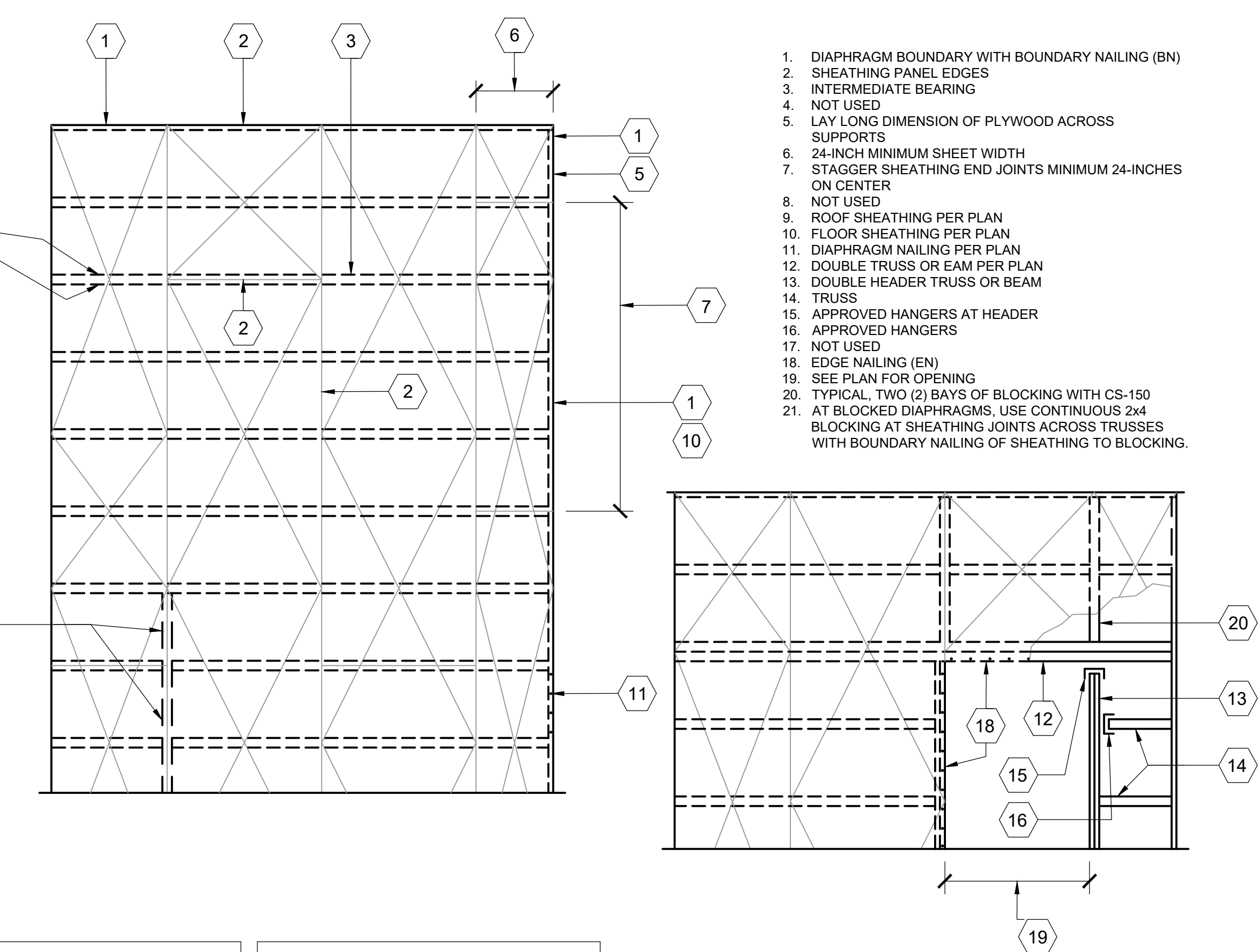
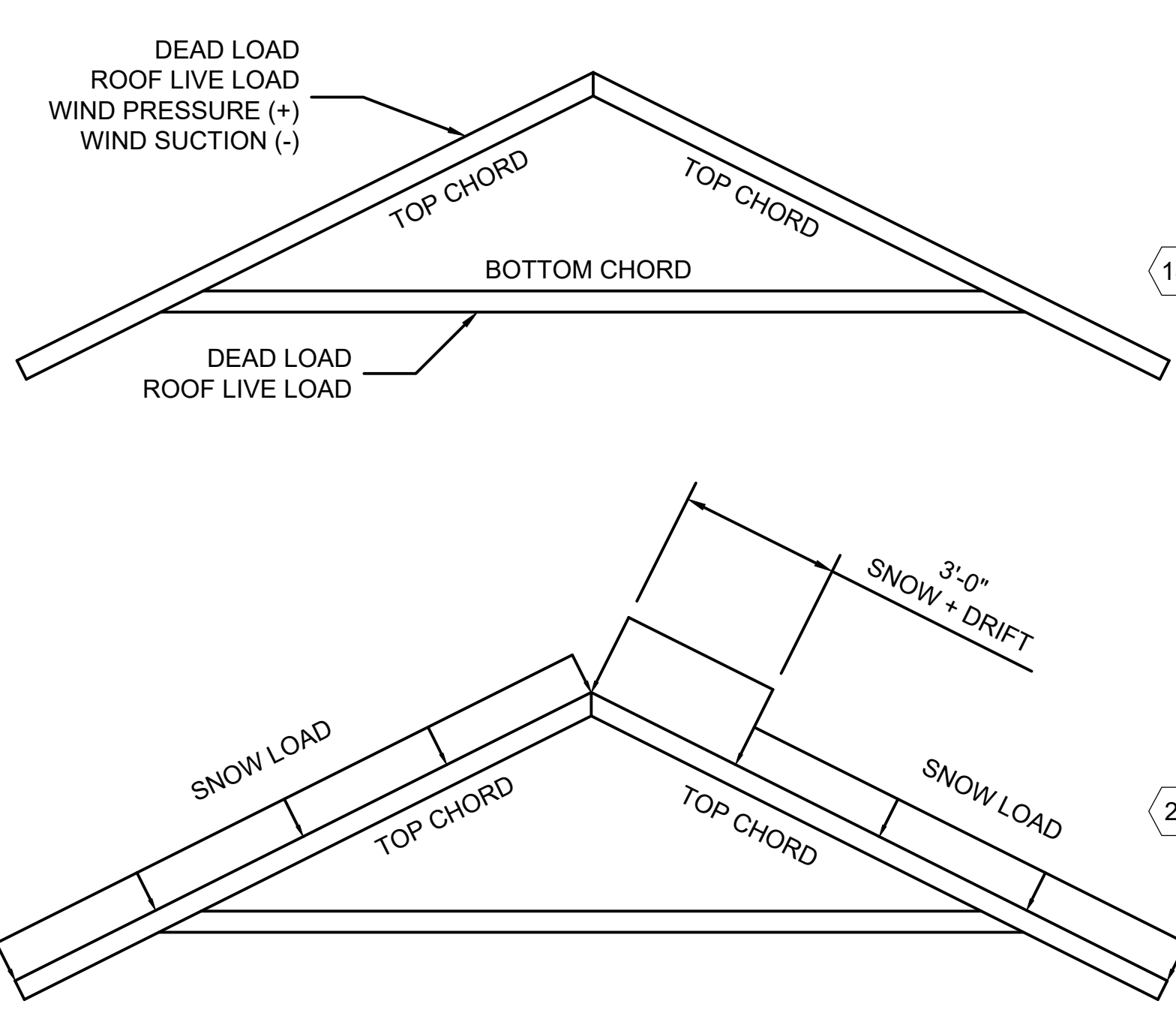
3/11/2026 M:\MSD\_Library\01 Structural Engineering - Buildings\Projects\2024\24021 Camp May Drawings\Structural\5002 Concrete Notes.dwg

WOOD CONNECTOR DESIGN CRITERIA

- 1. POWDER DRIVEN FASTENERS SHALL CONFORM TO THE SPECIFICATIONS SECTION 06100 ROUGH CARPENTRY. POWDER AND FASTENERS SHALL NOT CONTAIN LEAD.
2. LAG SCREWS AND WOOD SHALL BE SCREWED AND NOT DRIVEN INTO PLACE.
3. BOLTS AND SCREWS SHALL BE TIGHTENED AT THE TIME OF ERECTION AND RE-TIGHTENED BEFORE CLOSING IN, OR AT THE COMPLETION OF THE JOB.
4. BORED LEAD HOLES FOR BOLTS SHALL BE A MINIMUM OF 1/32nd" LARGER AND A MAXIMUM OF 1/16th" LARGER THAN BOLT SIZE. OVERSIZED OR SLOTTED HOLES ARE NOT ALLOWED UNLESS OTHERWISE NOTED ON THE DRAWINGS.
5. NAIL TYPES, INDICATED ON THE PLANS, SHALL MEET THE PROPERTIES AS INDICATED IN THE TABLE INCLUDED ON THIS SHEET. NAILS SHALL BE COMMON WIRE NAILS UNLESS SPECIFICALLY NOTED OTHERWISE.
6. LAG SCREWS SHOULD BE INSERTED IN THE LEAD HOLE BY TURNING WITH A WRENCH, NOT BY DRIVING WITH A HAMMER. WASHERS OF PROPER SIZE OR METAL PLATE, SHOULD NOT BE INSTALLED BETWEEN THE WOOD AND THE BOLT HEAD.
7. BORED LEAD HOLES FOR LAG SCREWS SHALL HAVE THE SAME DIAMETER AS THE SHANK, AND TO THE DEPTH OF THE UNTHREADED SHANK. SEE THE LEAD HOLE DIAMETER TABLE FOR REFERENCE.
8. BORED LEAD HOLES FOR DRIFT BOLTS AND DRIFT PINS SHALL BE DRILLED A MAXIMUM OF 1/32nd" LARGER OR TO THE ACTUAL PIN DIAMETER.

MANUFACTURED WOOD TRUSSES

- 1. THE TRUSS MANUFACTURER IS RESPONSIBLE TO MEET THE PROFILE, INCLUDING SLOPE, SPAN, DEPTH, AND SPACING, AS INDICATED ON THE DRAWINGS.
2. WOOD TRUSSES CONNECTED WITH METAL PLATE CONNECTION PLATES, SHALL BE DESIGNED, FABRICATED, AND ERECTED TO WITHSTAND THE FOLLOWING, AT A MINIMUM, THE FOLLOWING SUPERIMPOSED UNIFORM SERVICE (UNFACTORED) LOADS.
A. ROOF DEAD LOADS:
TOP CHORD 22 PSF
BOTTOM CHORD 8 PSF
B. ROOF SNOW LOADS: (SEE DIAGRAM)
SLOPED ROOF SNOW 15 PSF
BALANCED + DRIFT XXX PSF
C. ROOF LIVE LOADS:
TOP CHORD 20 PSF (DO NOT REDUCE)
BOTTOM CHORD 10 PSF (CONCURRENT WITH THE 10 PSF TOP CHORD LIVE LOAD)
D. ROOF WIND LOADS: (PER ASCE 7-16) (SEE S-001 FOR CRITERIA)
PRESSURE 41 PSF
SUCTION -33 PSF
3. IN ADDITION TO THE MINIMUM UNIFORM LOADS NOTED ABOVE, THE TRUSSES SHALL BE DESIGNED TO SUPPORT THE WEIGHT OF THE OF ANY MECHANICAL UNITS AS SHOWN ON THE DRAWINGS.
4. THE CONFIGURATION OF THE TRUSS WEB MEMBERS AS SHOWN IN THE DRAWINGS ARE FOR ILLUSTRATION PURPOSES ONLY. THE TRUSS MANUFACTURER SHALL DESIGN AND CONFIGURE THE WEB MEMBERS AS REQUIRED TO ACHIEVE THE PROPER STRENGTH AND FUNCTION OF EACH TRUSS. THE EXTERNAL CONFIGURATION, OR PROFILE, OF THE TRUSS SHALL BE AS SHOWN ON THE DRAWINGS. THE SIZE AND LOCATION OF CATWALKS, MECHANICAL UNITS, AND MULTIPLE TRUSSES SHALL BE AS SHOWN ON THE DRAWINGS.
5. A SINGLE, ONE-PART, TRUSS MAY BE SUBSTITUTED FOR A CORRESPONDING TRUSS SHOWN IN THE DRAWINGS, AS MANUFACTURED IN TWO PARTS. IF TWO-PART TRUSSES ARE USED THE MANUFACTURER SHALL PROVIDE COMPLETE INSTALLATION INSTRUCTIONS.
6. CONTRACTOR IS CAUTIONED TO FULLY COORDINATE AND VERIFY THE FABRICATION AND INSTALLATION OF THE ROOF TRUSSES WITH MECHANICAL SYSTEMS TO ENSURE THAT THE MINIMUM EQUIPMENT INSTALLATION OPERATION, AND MAINTENANCE CLEARANCES ARE MAINTAINED AND THAT DUCTWORK DOES NOT INTERFERE WITH THE TRUSS MEMBERS.
7. THE CONTRACTOR SHALL SUBMIT THE TRUSS MANUFACTURER'S CALCULATIONS AND SHOP DRAWINGS TO THE PROJECT ENGINEER FOR APPROVAL. THE MANUFACTURER'S TRUSS SUBMITTAL PACKAGE, WILL BE CHECKED FOR CONFORMANCE WITH DESIGN LOADS, CONFIGURATION (2 OR 3 POINT BEARINGS), AND LOAD TRANSFER. ONCE SHOP DRAWINGS ARE APPROVED BY THE PROJECT ENGINEER, THE CONTRACTOR SHALL SUBMIT THE SHOP DRAWINGS TO THE BUILDING OFFICIAL FOR FINAL APPROVAL PRIOR TO FABRICATION AND ERECTION OF THE TRUSSES. THE CONTRACTOR SHALL ALLOW SUFFICIENT TIME FOR THIS APPROVAL PROCESS.
8. TRUSS DRAWINGS, FROM THE MANUFACTURER, SHALL INCLUDE AT A MINIMUM:
A. NUMBER OF PLYS IF GREATER THAN ONE.
B. RESIGN LOADS AS STATED ABOVE.
C. ADJUSTMENTS TO WOOD MEMBER AND METAL CONNECTOR PLATE DESIGN VALUE FOR CONDITIONS OF USE.
D. MAXIMUM REACTION FORCE AND DIRECTION, INCLUDING MINIMUM UPLIFT REACTION FORCES.
E. METAL-CONNECTOR-PLATE TYPE, SIZE AND THICKNESS OR GAGE, AND THE DIMENSIONED LOCATION OF EACH METAL CONNECTOR PLATE EXCEPT WHERE SYMMETRICALLY LOCATED RELATIVE TO THE JOINT INTERFACE.
F. SIZE, SPECIES AND GRADE FOR EACH WOOD MEMBER.
G. TRUSS-TO-TRUSS CONNECTIONS AND TRUSS FIELD ASSEMBLY REQUIREMENTS.
H. MAXIMUM AXIAL TENSION AND COMPRESSION FORCES IN THE TRUSS MEMBERS.
I. REQUIRED PERMANENT INDIVIDUAL TRUSS MEMBER RESTRAINT LOCATION AND THE METHOD AND DETAILS OF RESTRAINT/BRACING TO BE USED IN ACCORDANCE WITH IBC 2021 SECTION 2303.4.1.2.
10. THE TRUSS AND TRUSS CONNECTIONS, DESIGNED AND SPECIFIED BY THE MANUFACTURER, SHALL HAVE ADEQUATE STRENGTH TO RESIST ALL LOADS, THE TRUSSES, AND INDUCED STRESSES, SHALL BE APPROVED PER GUIDELINES SPECIFIED PER THE INTERNATIONAL CONFERENCE OF BUILDING OFFICIALS (ICBO) OR PER THE INTERNATIONAL CODE COUNCIL (ICC).
11. THE TRUSS MANUFACTURER IS TO PROVIDE DETAILS WHICH ALLOW FOR NORMAL DEFLECTION WITHOUT IMPOSITION OF THE LATERAL LOADS ON THEIR SUPPORTS (I.E. SCISSOR TRUSSES).
12. DEAD AND LIVE LOAD COMBINED DEFLECTIONS SHALL BE LIMITED TO L/180. LIVE LOAD DEFLECTION SHALL BE LIMITED TO L/240 PER IBC 2021, TABLE 2304.8(3), UNLESS NOTED OTHERWISE.
13. CROSS BRIDGING AND/OR BRACING SHALL BE PROVIDED AND DETAILED BY THE TRUSS MANUFACTURER AS REQUIRED TO ADEQUATELY BRACE ALL TRUSSES.
14. TRUSSES SHALL BE DESIGNED TO SUSTAIN ALL VERTICAL, LATERAL, AND OTHER PERTINENT LOADS, INCLUDING BRACING OF TOP AND BOTTOM CHORDS AND ALL RELATED TRUSS CONNECTIONS. THE CONTRACTOR SHALL COORDINATE THE ENGINEERS DESIGN LOADING AND REQUIREMENTS TO THE TRUSS MANUFACTURER.
15. THE TRUSS MANUFACTURER IS RESPONSIBLE FOR PROVIDING ADDITIONAL SHEAR AND DRAG LOADS ON THE TRUSSES AS SHOWN ON THE FRAMING PLANS.
16. THE TRUSS MANUFACTURER IS RESPONSIBLE FOR REVIEWING THE FRAMING PLANS AND STRUCTURAL DETAILS PRIOR TO FABRICATION OF THE TRUSSES AND SPECIFYING TRUSS HANGERS.
17. MULTIPLE-PLY TRUSSES SHALL BE SECURED TOGETHER TO ACT AS A SINGLE UNIT.
18. TRUSS MEMBERS ARE NOT TO BE CUT, NOTCHED, DRILLED, SPLICED OR OTHERWISE ALTERED.
19. POSTS SUPPORTING GIRDER TRUSSES SHALL BE (2) 2X STUDS (MINIMUM) UNLESS OTHERWISE NOTED ON THE DRAWINGS EITHER PROVIDED OR REVIEWED BY THE PROJECT ENGINEER.
20. METAL FRAMING ANCHORS:
A. METAL FRAMING ANCHORS SHOWN ON DRAWINGS REFER TO CATALOGUE NUMBERS OF ANCHORS BY SIMPSON STRONG-TIE CO., INC. USE THESE ANCHORS OR APPROVED EQUAL ANCHORS WITH EQUAL OR GREATER LOAD CAPACITIES.
B. INSTALL ANCHORS IN ACCORDANCE WITH MANUFACTURER'S INSTRUCTIONS.
C. FASTEN ANCHORS PER THE SCHEDULE INCLUDED ON THIS SHEET, UNLESS OTHERWISE NOTED.
D. SIMPSON STRONG-TIE FASTENERS SHALL BE CONSTRUCTED WITH TITEN SCREWS, TITEN HD SCREWS, AND SDS (STRONG DRIVE SCREWS) WHERE NOTED.
E. LOCATE TITEN SCREWS A MINIMUM OF 1 1/2-INCHES FROM ALL EDGES OF MASONRY. LOCATE HD SCREWS A MINIMUM OF 4-INCHES FROM ALL EDGES OF MASONRY.



- 1. DIAPHRAGM BOUNDARY WITH BOUNDARY NAILING (BN)
2. SHEATHING PANEL EDGES
3. INTERMEDIATE BEARING
4. NOT USED
5. LAY LONG DIMENSION OF PLYWOOD ACROSS SUPPORTS
6. 24-INCH MINIMUM SHEET WIDTH
7. STAGGER SHEATHING END JOINTS MINIMUM 24-INCHES ON CENTER
8. NOT USED
9. ROOF SHEATHING PER PLAN
10. FLOOR SHEATHING PER PLAN
11. DIAPHRAGM NAILING PER PLAN
12. DOUBLE TRUSS OR EAM PER PLAN
13. DOUBLE HEADER TRUSS OR BEAM
14. TRUSS
15. APPROVED HANGERS AT HEADER
16. APPROVED HANGERS
17. NOT USED
18. EDGE NAILING (EN)
19. SEE PLAN FOR OPENING
20. TYPICAL TWO (2) BAYS OF BLOCKING WITH CS-150
21. AT BLOCKED DIAPHRAGMS, USE CONTINUOUS 2x4 BLOCKING AT SHEATHING JOINTS ACROSS TRUSSES WITH BOUNDARY NAILING OF SHEATHING TO BLOCKING.

FASTENING SCHEDULE - TABLE 2304.9.1

Table with 3 columns: BUILDING ELEMENT DESCRIPTION, FASTENING, and LOCATION. It lists fastening requirements for various elements like blocking, rafters, joists, and headers.

FASTENING SCHEDULE - TABLE 2304.9.1 (CONT...)

Continuation of the fastening schedule table, listing requirements for continuous headers, top plates, studs, and sheathing.

NAIL SIZE SCHEDULE

Table with 3 columns: NAIL TYPE, PROPERTIES (Pennyweight, Nail Shank Diameter, Length). It lists common wire and box nails.

\* FASTENING NAILS AND STAPLES TO CONFORM TO THE REQUIREMENTS OF ASTM F1667 AND IBC 2021 2303.6 NAILS USED FOR FRAMING AND SHEATHING CONNECTIONS SHALL COMPLY WITH THE FOLLOWING:
SHANK DIAMETERS: 0.0997" < D < 0.1427", 0.1427" < D < 0.1777", 0.1777" < D < 0.254"
MIN. STRENGTH: F\_u = 100 KSI, F\_u = 90 KSI, F\_u = 80 KSI
F\_u = MINIMUM BENDING YIELD STRENGTH

METAL FRAMING ANCHORS

Table with 4 columns: ANCHOR, FASTEN TO WOOD MEMBER, FASTEN TO STEEL MEMBER, FASTEN TO CMU. It lists anchor types like L30, L50, H2.5, A34, MTSM16, and FGTRGR.

LEAD HOLE DIAMETERS FOR LAG SCREWS

Table with 3 columns: NOMINAL DIAMETER OF LAG BOLT (IN), SHANK - UNTHREADED PORTION (IN), SPECIES - DOUGLAS FIR/LARCH / HEM-FIR. It lists lead hole diameters for various lag bolt sizes.

\* BORED HOLE DIAMETERS BASED ON WOOD SPECIES AND SPECIFIC GRAVITY (G). DIAMETERS LISTED ARE FOR DOUGLAS FIR/LARCH. CONTACT ENGINEER FOR OTHER WOOD SPECIES.

WILSON & COMPANY logo and contact information: 2600 THE AMERICAN RD. SE SUITE 100, RIO RANCHO, NM 87124, PHONE: 505-898-8021, FAX: 505-898-8501, www.wilsonco.com

Professional Engineer seal for Will B. Ross, New Mexico, No. 25648, dated 03/12/26.

PROJECT NAME: LAC JEMEZ MOUNTAIN REGIONAL FIRE PROTECTION SYSTEM PHASE 3

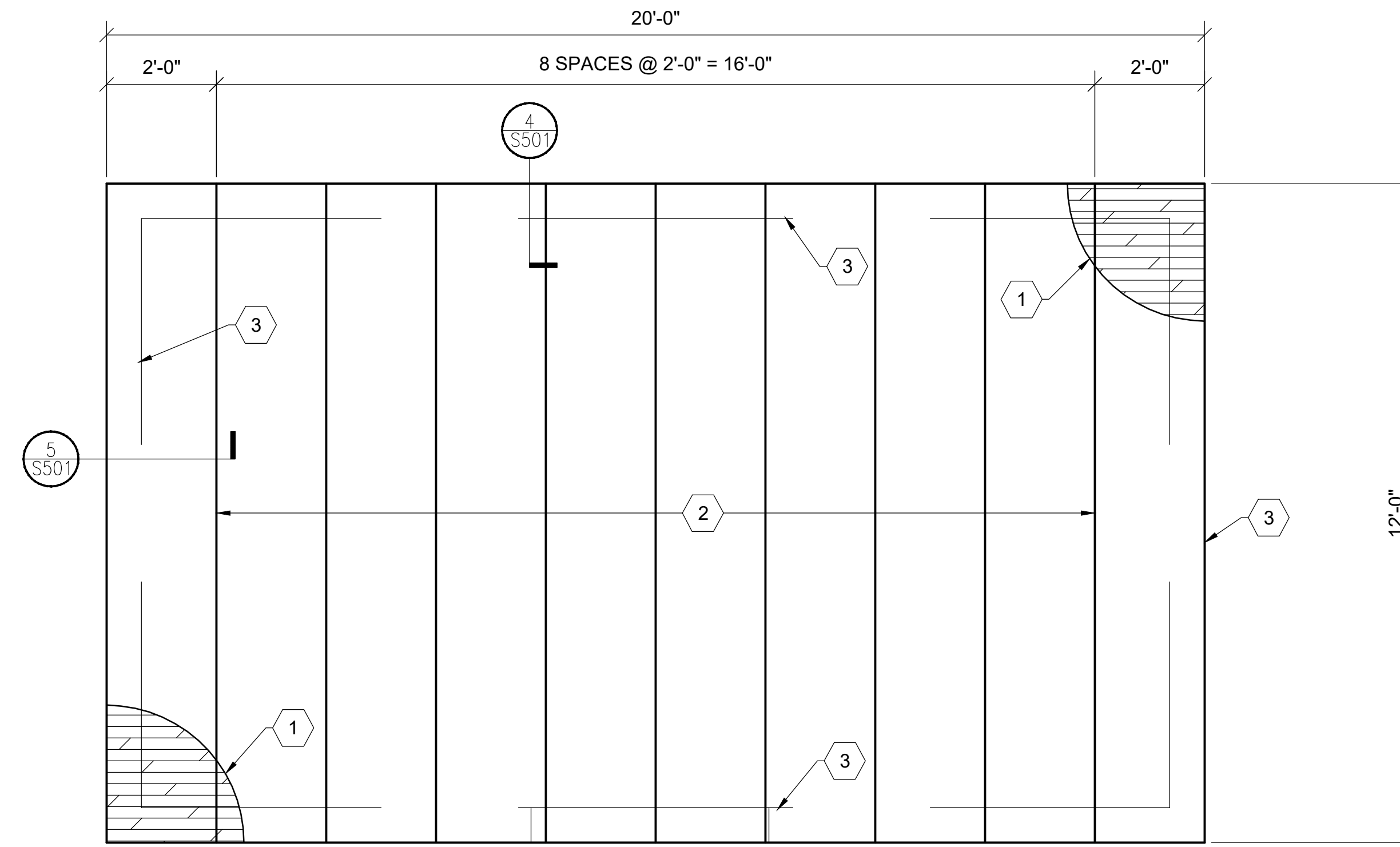
Revision table with columns: NO., DATE, DESCRIPTION, ISSUED FOR CONSTRUCTION, MAB, BY.

PROJECT NO: 20-600-894-03
DESIGNED BY: MAB
DRAWN BY: MAB
CHECKED BY: WBR

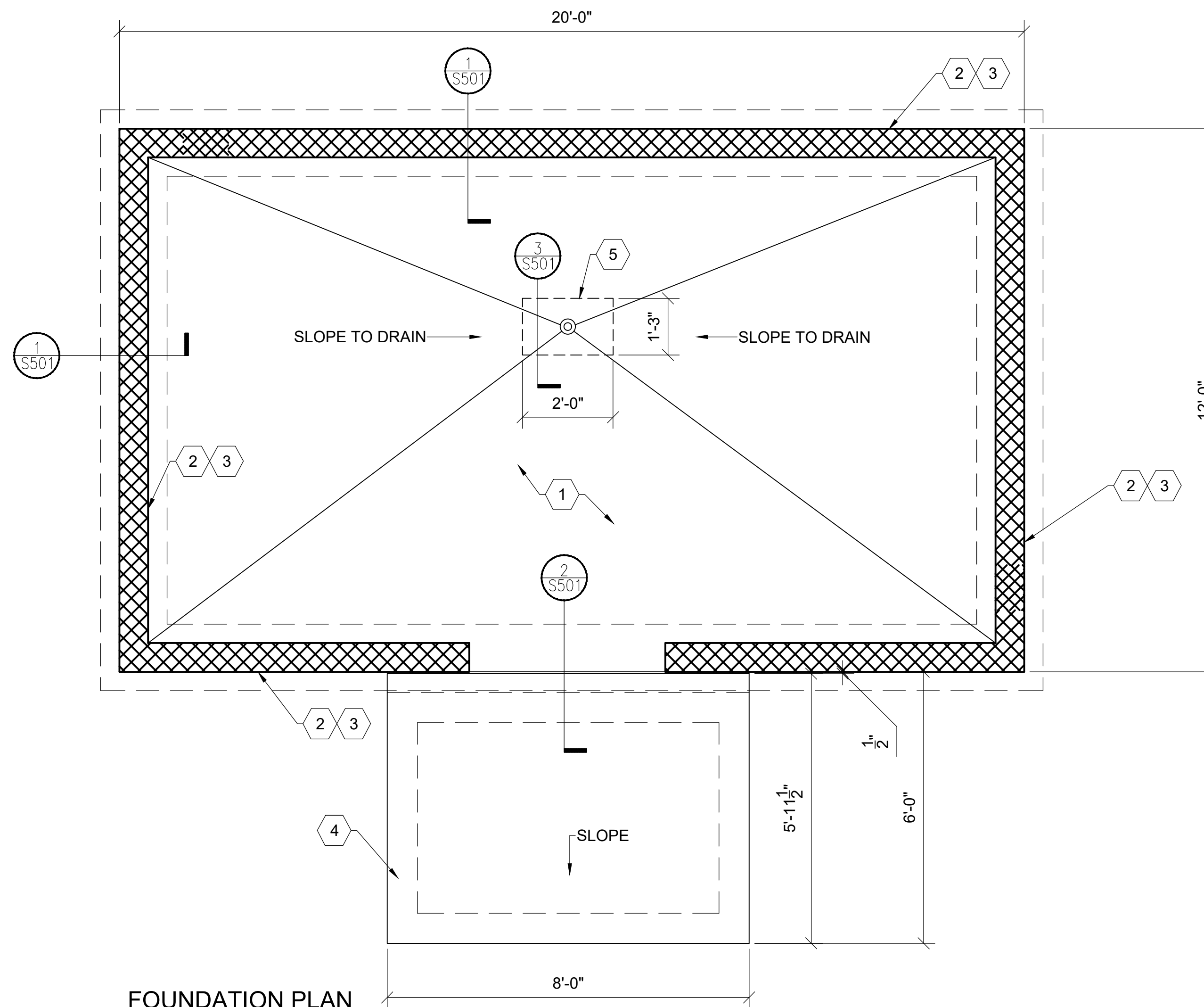
DATE: 03/12/26
SHEET TITLE: TYPICAL WOOD NOTES AND DETAILS

SHEET NO: S-004

3/11/2026 M:\MSD\_Library\01 Structural Engineering - Buildings\Projects\2024\24021 Camp May\Drawings\Structural\S101 FOUNDATION & FRAMING PLAN 24021.dwg



**ROOF FRAMING PLAN**  
SCALE:  $\frac{1}{2}" = 1'-0"$



**FOUNDATION PLAN**  
SCALE:  $\frac{1}{2}" = 1'-0"$

**GENERAL SHEET NOTES**

1. TOP OF SLAB REFERENCE ELEVATION = 100'-0" UNO. SEE CIVIL FOR MEAN SEA LEVEL ELEVATIONS
2. BOTTOM OF FOOTING ELEVATION = 97'-0".
3. REFER TO GEOTECHNICAL REPORT FOR SUBGRADE PREPARATION.
4. SEE S002 FOR CONTROL JOINT SPACING MINIMUM REQUIREMENTS.
5. SEE GENERAL STRUCTURAL NOTES FOR ADDITIONAL INFORMATION.
6. SEE ARCHITECTURAL FOR ADDITIONAL INFORMATION.

**ROOF FRAMING KEYNOTES**

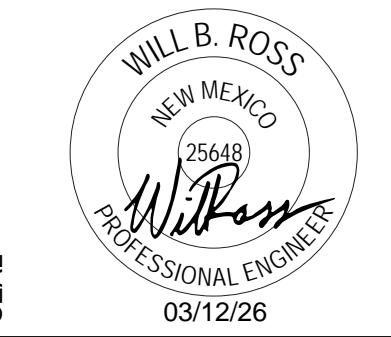
1. SHEATHING:  $\frac{19}{32}"$  PLYWOOD SHEATHING, BLOCKED, WITH 10d @ 6" OC BOUNDARIES AND EDGES, 10d @ 12" OC FIELD.
2. FRAMING: PRE-ENGINEERED WOOD TRUSSES @ 24" OC.
3. WALL: 8" CMU WALL BELOW.

**FOUNDATION KEYNOTES**

1. SLAB: 6" CONCRETE SLAB ON GRADE WITH #4 @ 18" OC EACH WAY.
2. FOOTING: 1'-6" WIDE x 1'-0" THICK CONTINUOUS FOOTING WITH 2-#4 CONTINUOUS AND #4 @ 18" OC TRANSVERSE.
3. WALL: 8" CMU WALL, SOLID GROUTED, WITH #4 @ 32" OC VERTICAL AND HORIZONTAL.
4. SLAB: 4" CONCRETE SLAB ON GRADE WITH #4 @ 18" OC EACH WAY AND 8" WIDE CONTINUOUS TURN DOWN FOOTING WITH 1-#4 CONTINUOUS.
5. DRAIN: REFERENCE PLUMBING DRAWINGS FOR ADDITIONAL INFORMATION.

**WILSON & COMPANY**  
2600 THE AMERICAN RD. SE SUITE 100  
RIO RANCHO, NM 87124  
PHONE: 505-898-8021  
FAX: 505-898-8501  
www.wilsonco.com

CONSULTANTS



**LAC JEMEZ MOUNTAIN  
REGIONAL FIRE  
PROTECTION SYSTEM  
PHASE 3**

PROJECT NAME

REV.	DATE	ISSUED FOR CONSTRUCTION	MAB	BY
IFC	03/12/26			

PROJECT NO: 20-600-894-03

DESIGNED BY: MAB

DRAWN BY: MAB

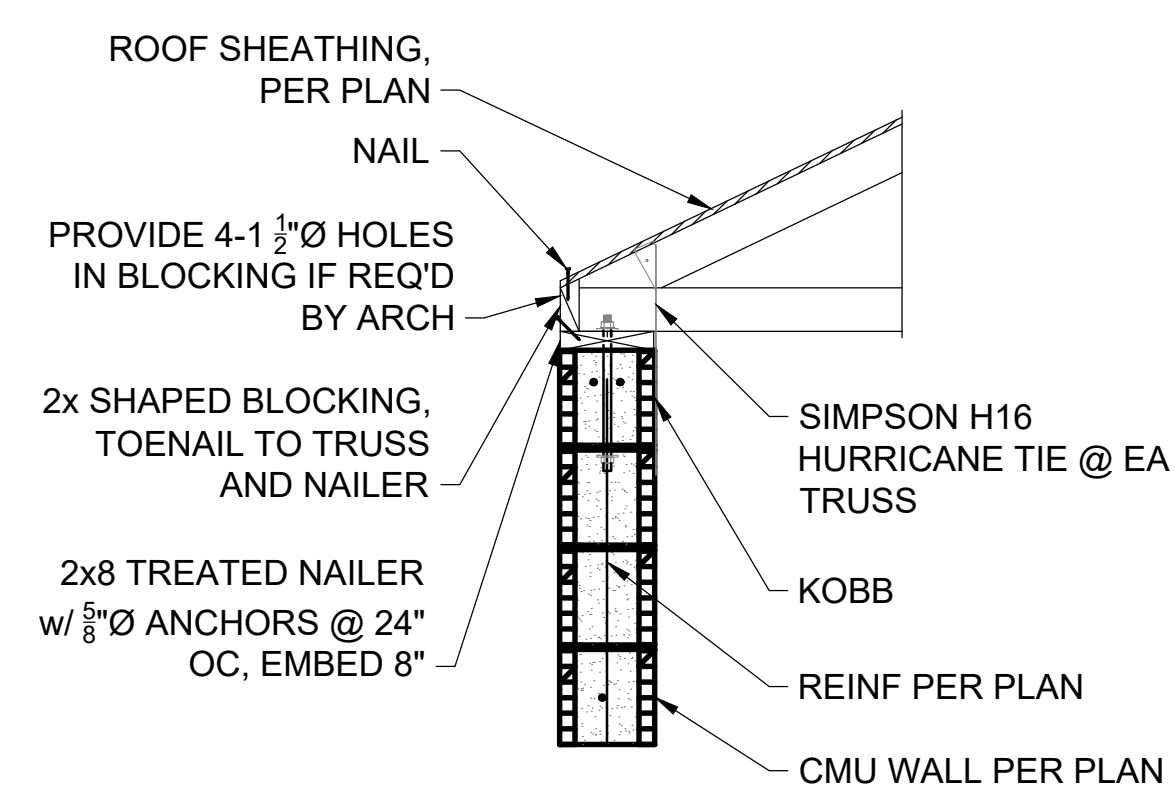
CHECKED BY: WBR

DATE:

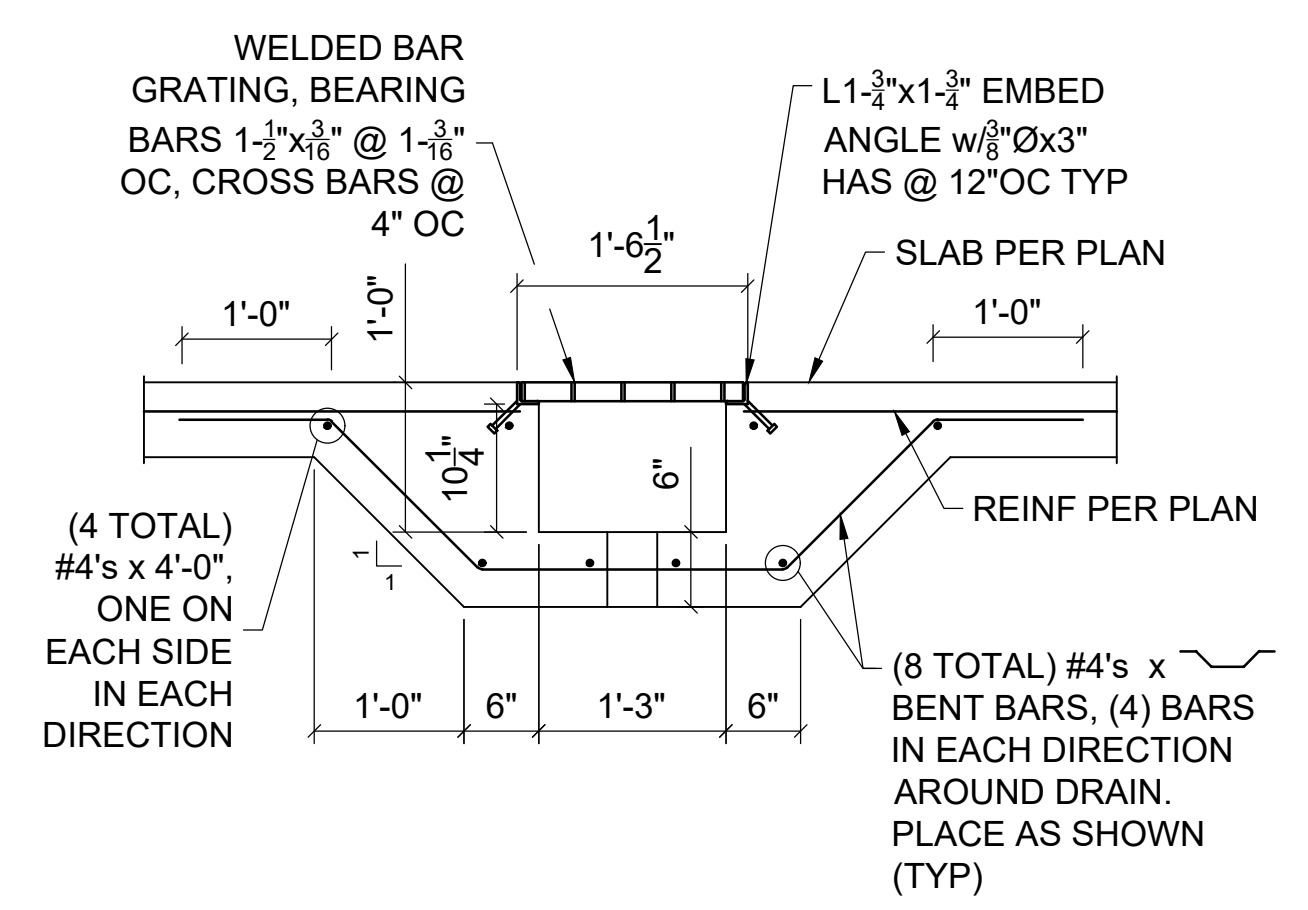
SHEET TITLE  
**FOUNDATION  
& ROOF  
FRAMING  
PLAN**

SHEET NO:  
**S-101**

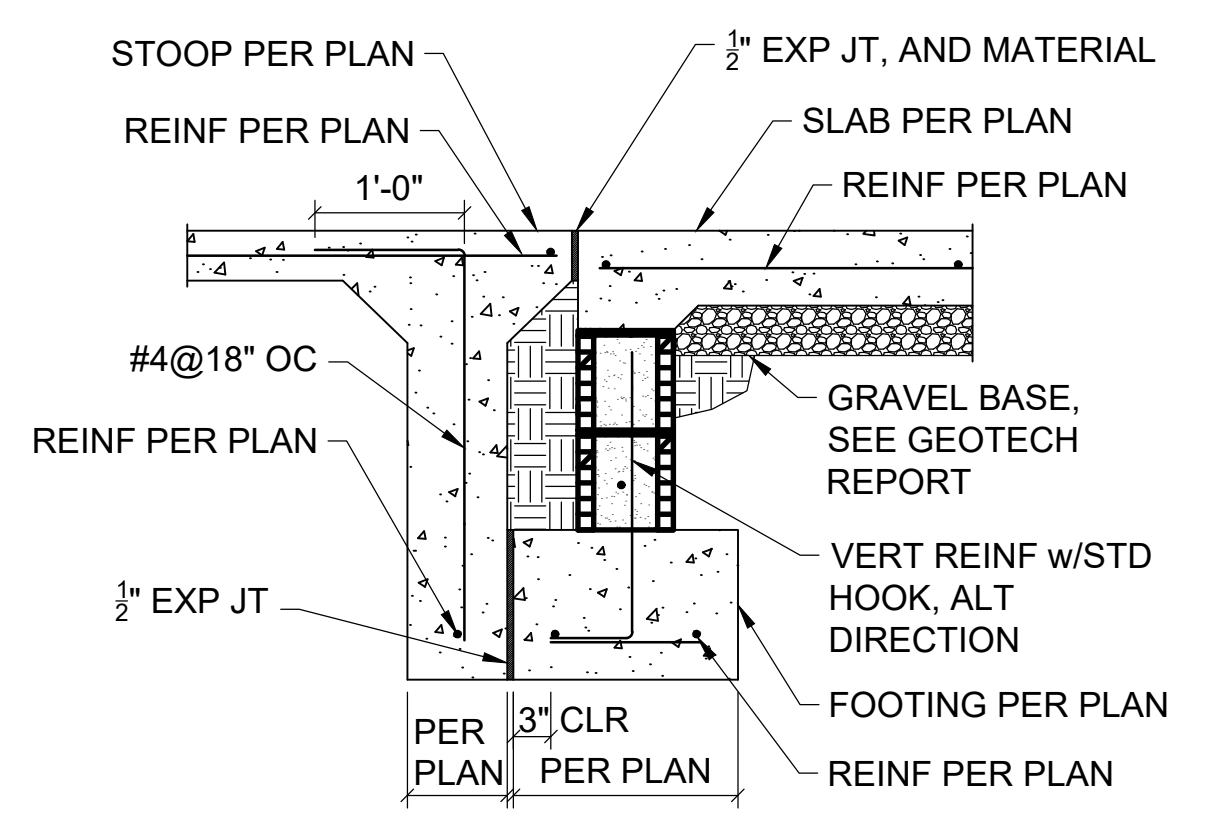
3/11/2026 M:\MSD\_Library\01 Structural Engineering - Buildings\Projects\2024\24021 Camp May\Drawings\Structural\S501 Foundation Details Camp May.dwg



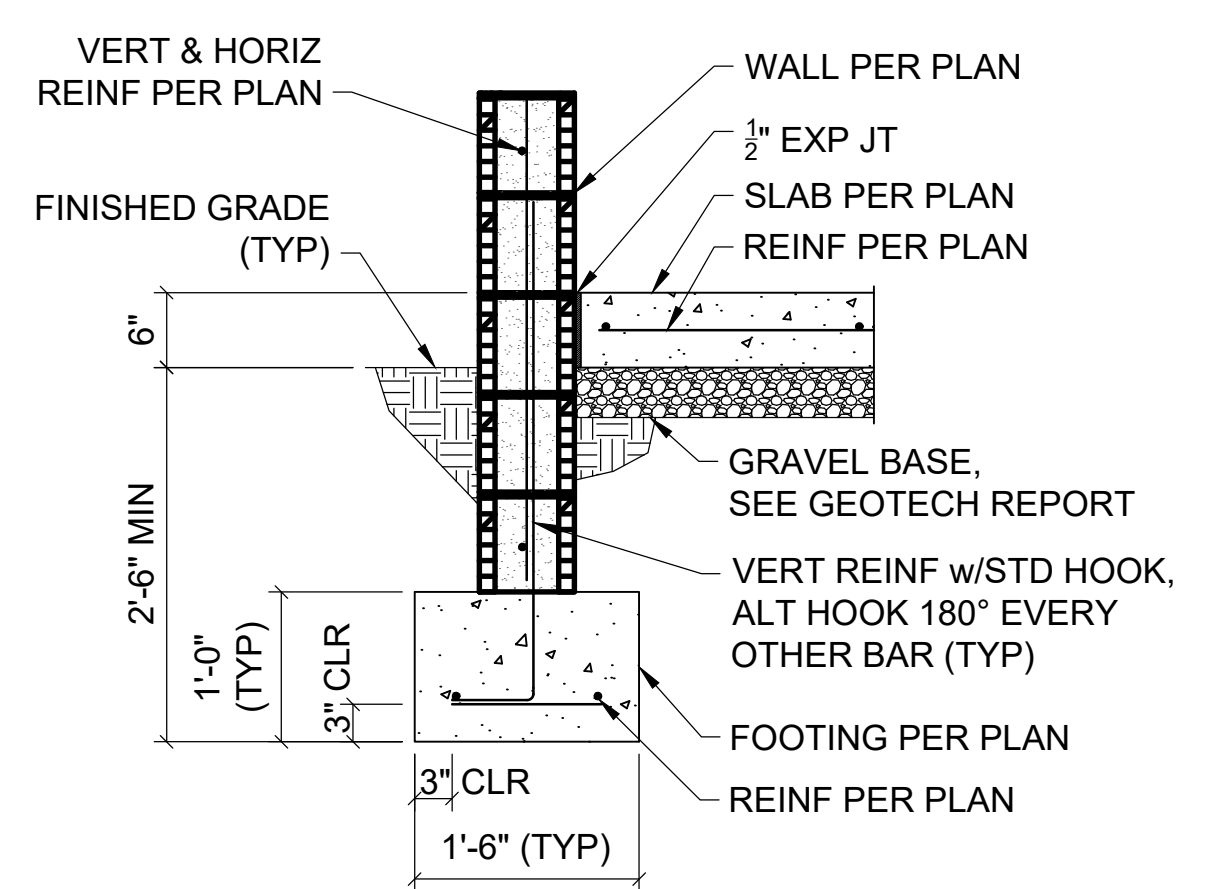
**4** TRUSSES PERPENDICULAR TO WALL  
S501 SCALE: 3/4"=1'-0"



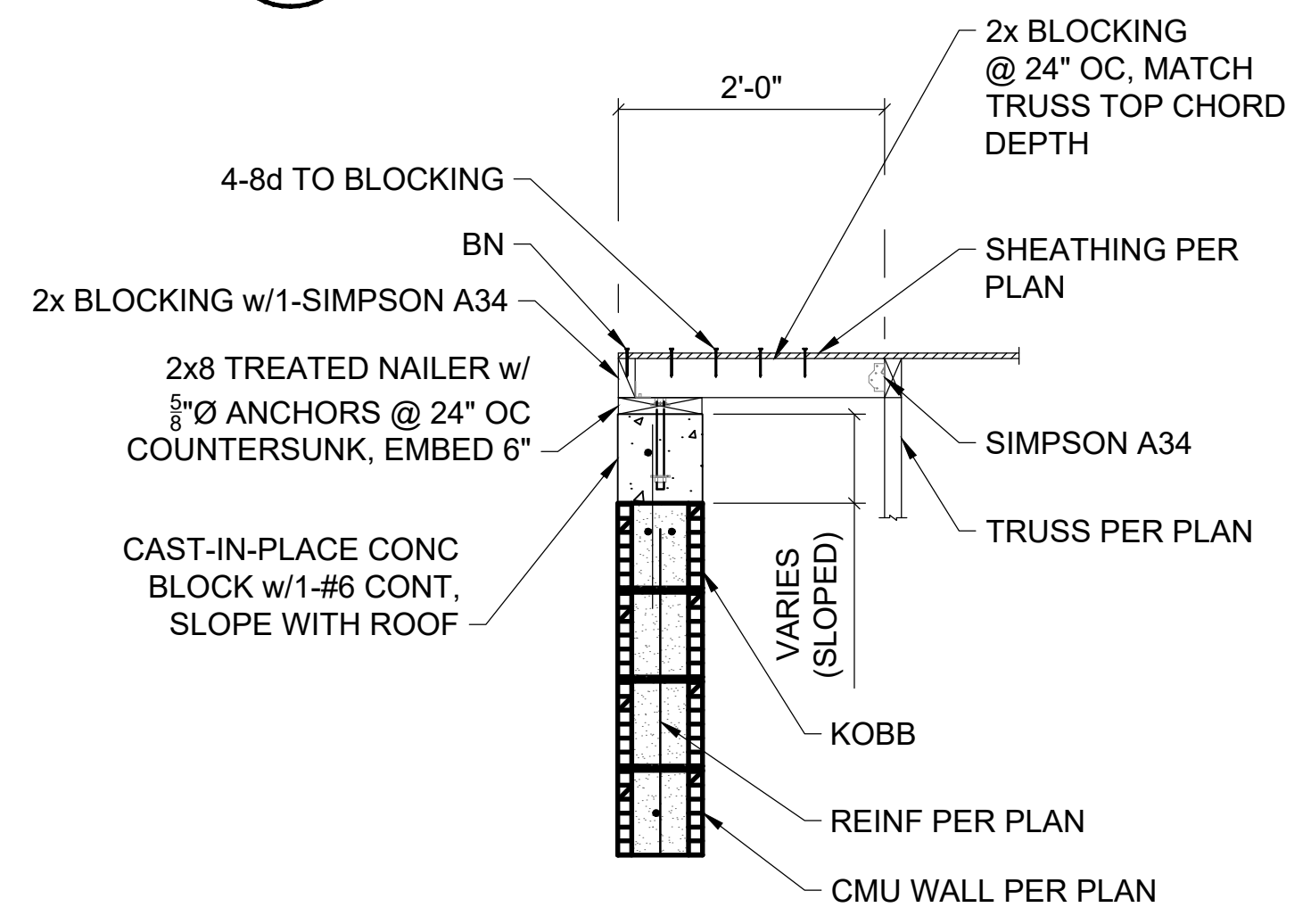
**3** GRATE TRENCH  
S501 SCALE: 3/4"=1'-0"



**2** TYP PERIMETER FOOTING AT OPENING  
S501 SCALE: 3/4"=1'-0"



**1** TYP PERIMETER FOOTING  
S501 SCALE: 3/4"=1'-0"



**5** TRUSS PARALLEL TO END WALL  
S501 SCALE: 3/4"=1'-0"

**WILSON & COMPANY**  
2600 THE AMERICAN RD. SE SUITE 100  
RIO RANCHO, NM 87124  
PHONE: 505-898-8021  
FAX: 505-898-8501  
www.wilsonco.com

CONSULTANTS



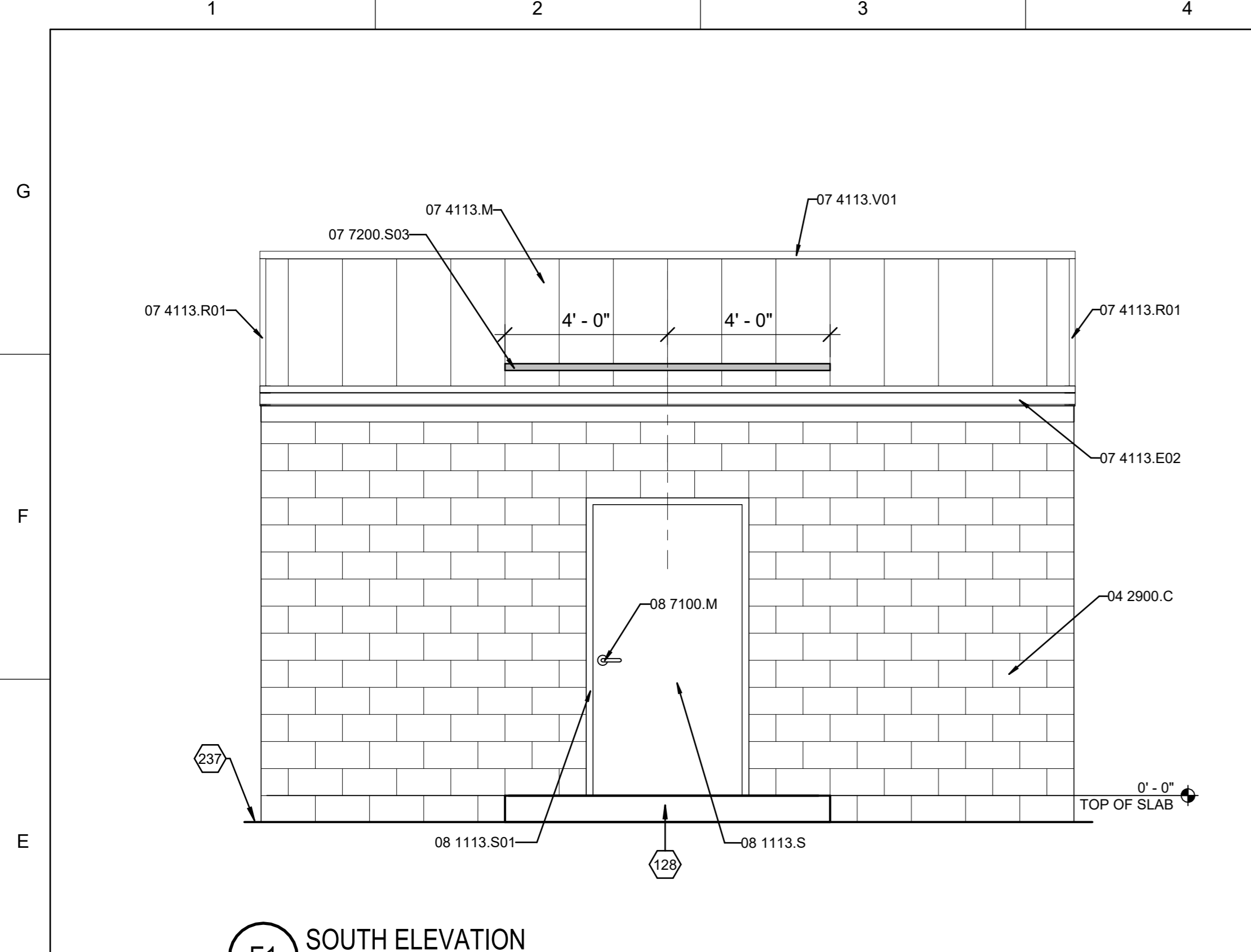
PROJECT NAME  
**LAC JEMEZ MOUNTAIN  
REGIONAL FIRE  
PROTECTION SYSTEM  
PHASE 3**

REV.	DATE	DESCRIPTION	BY

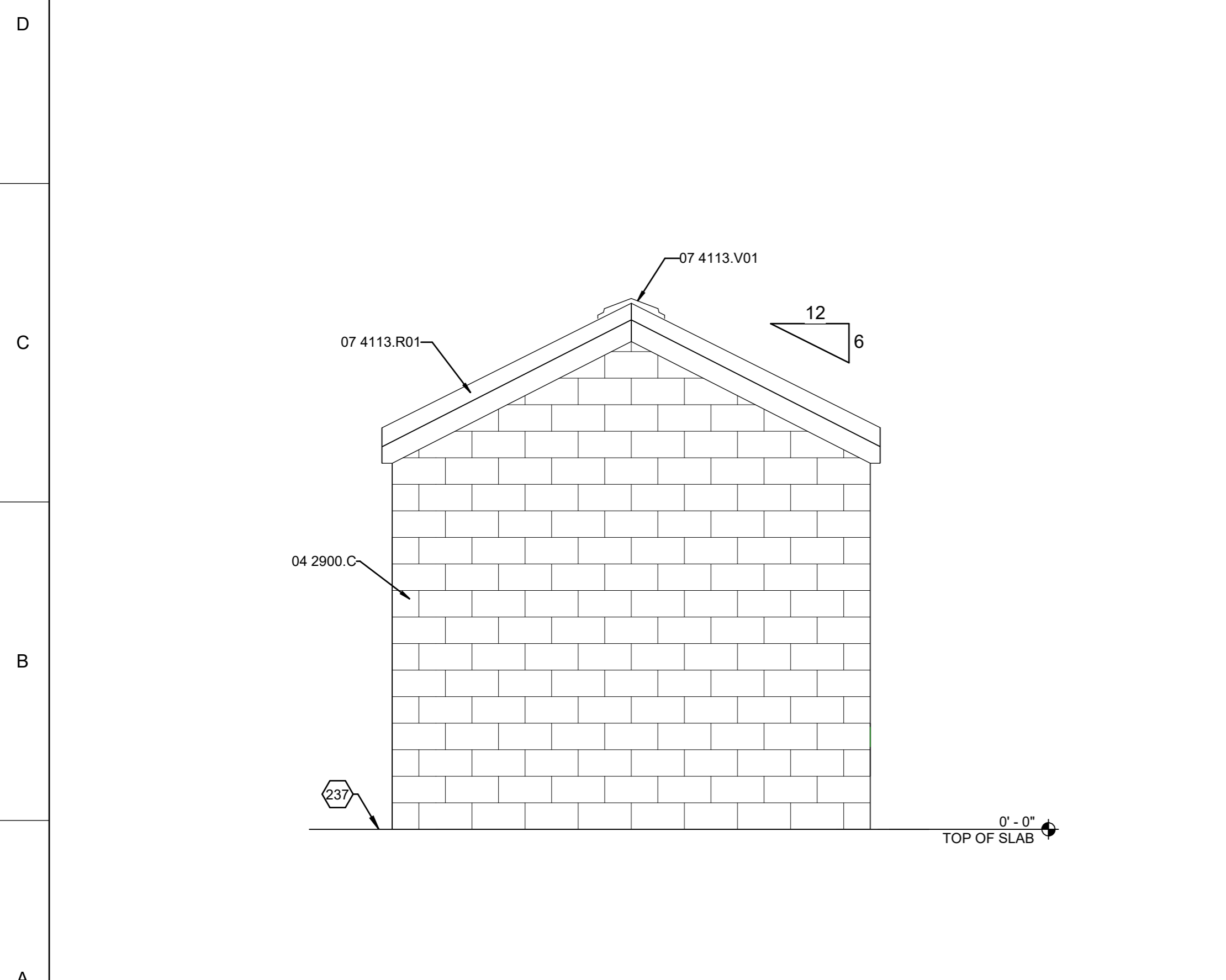
PROJECT NO: 20-600-894-03  
DESIGNED BY: MAB  
DRAWN BY: MAB  
CHECKED BY: WBR  
DATE:

SHEET TITLE  
**FOUNDATION  
AND ROOF  
FRAMING  
DETAILS**

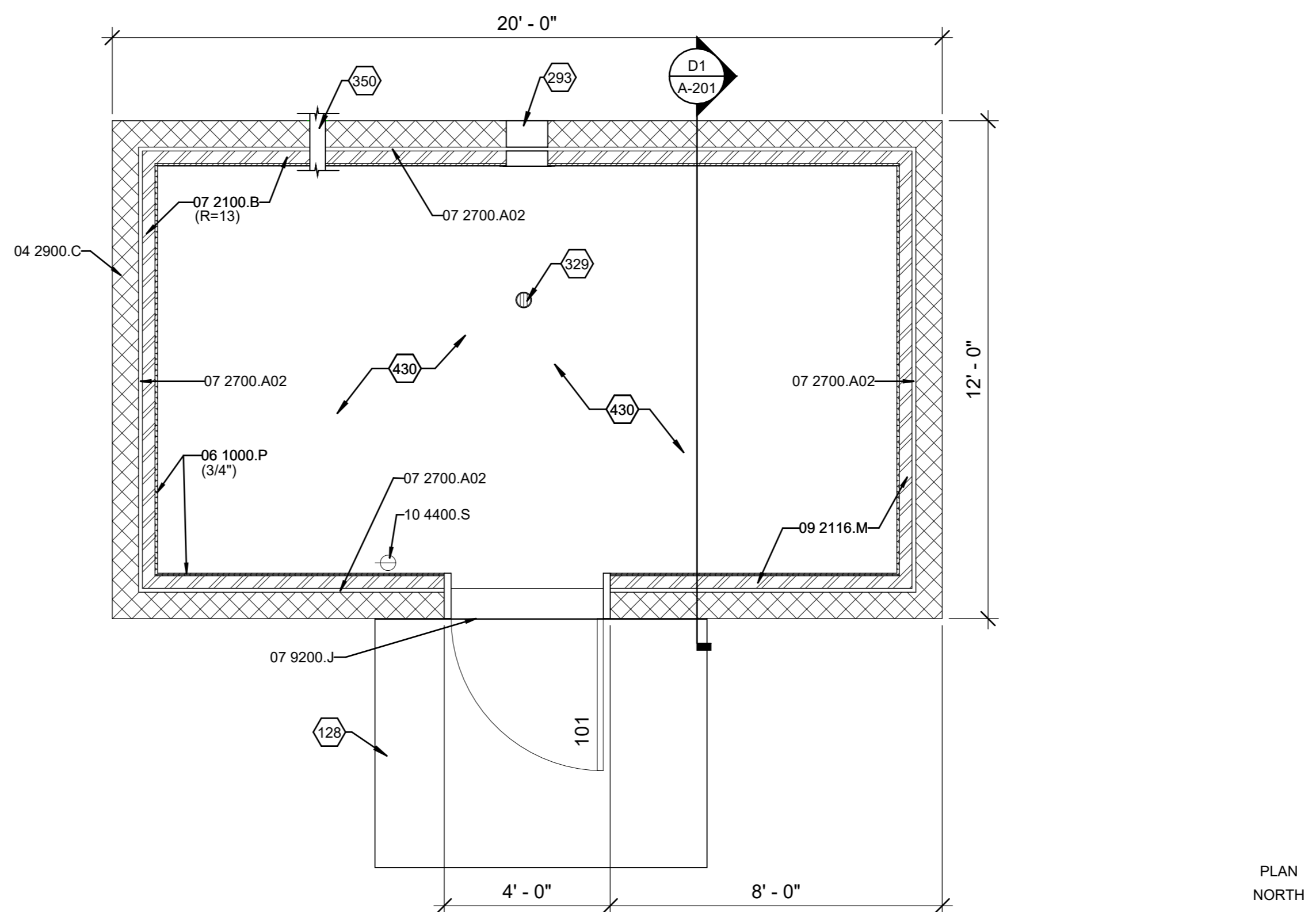
SHEET NO:  
**S-501**



**E1 SOUTH ELEVATION**  
3/8" = 1'-0"



**A1 EAST ELEVATION**  
3/8" = 1'-0"



**A5 FLOOR PLAN**  
3/8" = 1'-0"

**REGULATORY INFORMATION**

1. GENERAL:  
PROJECT ADDRESS: JEMEZ MOUNTAIN ROAD, LOS ALAMOS COUNTY NEW MEXICO

GOVERNING REGULATIONS:  
2021 NM COMMERCIAL BUILDING CODE (2021 IBC, AS AMENDED)  
2021 NM COMMERCIAL ENERGY CONSERVATION CODE (2021 IECC AS AMENDED)  
2021 NM PLUMBING CODE CODE (2021 UPC, AS AMENDED)  
2021 NM MECHANICAL CODE (2021 UMC, AS AMENDED)  
2021 NM ELECTRICAL CODE (2021 NEC, AS AMENDED)  
2021 INTERNATIONAL FIRE CODE

2. SITE: REFER TO CIVIL SITE PLANS

3. BUILDING:  
OCCUPANCY GROUP: UTILITY AND MISCELLANEOUS GROUP U (SECTION 312.1 IBC)  
CONSTRUCTION TYPE: VB (TABLES 601 AND 602, AND SECTION 602.5, IBC)  
BUILDING AREA:  
ALLOWABLE AREA: 5,500 SF (TABLE 506.2, IBC)  
ACTUAL BUILDING AREA: 240 SF  
BUILDING HEIGHT: (IN FEET ABOVE GRADE PLANE)  
ALLOWABLE NUMBER OF STORIES: 3 STORIES  
ACTUAL NUMBER OF STORIES: 1 STORY

4. LIFE SAFETY - EGRESS  
MAXIMUM OCCUPANT LOAD FOR SPACES WITH ONE EXIT  
ACCESS DOORWAY:  
ALLOWABLE OCCUPANT LOAD 29 OCCUPANTS (TABLE 1006.2.1, IBC)  
ACTUAL OCCUPANT LOAD: NOT OCCUPIED (1/300, TABLE 1004.5, IBC)  
EXITS REQUIRED: 1 EXIT (TABLE 1006.3.3(2), IBC)  
EXITS PROVIDED: 1  
MAXIMUM COMMON PATH OF EGRESS TRAVEL  
ALLOWABLE TRAVEL DISTANCE: 100 FEET (TABLE 1006.2.1, IBC)  
ACTUAL TRAVEL DISTANCE: 20 FEET

5. FIRE PROTECTION: PASSIVE FIRE EXTINGUISHER PROVIDED.  
FIRE-RESISTANCE RATING REQUIREMENTS FOR EXTERIOR WALLS BASED ON FIRE SEPARATION DISTANCE: X > 30 FEET, 0 HOURS (TABLE 602 IBC)  
MINIMUM ROOF COVERING CLASSIFICATION: CLASS C (TABLE 1505.1, IBC)

6. ACCESSIBILITY: EXEMPT, UTILITY BUILDING (SECTION 1103.2.4, IBC)

7. ENERGY: BUILDING THERMAL ENVELOPE EXEMPT (SECTION C402.1.2, IECC)  
CLIMATE ZONE: 5B; LOS ALAMOS COUNTY, NM

8. STRUCTURAL: REFER TO STRUCTURAL DRAWINGS

9. ELECTRICAL: REFER TO ELECTRICAL DRAWINGS

**GENERAL SHEET NOTES**

- REFER TO BOOSTER PUMP PLANS FOR PIPE PENETRATION LOCATIONS AND SIZES.
- BOOSTER EQUIPMENT NOT SHOWN FOR CLARITY. REFER TO BOOSTER PUMP PLANS FOR BOOSTER PUMP EQUIPMENT LOCATIONS.
- ELECTRICAL EQUIPMENT NOT SHOWN FOR CLARITY. REFER TO ELECTRICAL PLANS FOR POWER PANELS AND LIGHT FIXTURE LOCATIONS.
- SEE BOOSTER EQUIPMENT PLANS FOR SIZE AND LOCATIONS OF PIPING PENETRATIONS AT EXTERIOR WALLS. SEAL PENETRATIONS WITH SEALANT.

**REFERENCE KEYNOTES**

REFERENCE SPECIFICATION SECTION	DESCRIPTION
04 2900.C	CONCRETE MASONRY UNITS
06 1000.P	PLYWOOD
07 2100.B	BLANKET INSULATION
07 2700.A02	AIR BARRIER, FLUID-APPLIED
07 4113.E02	EAVE TRIM
07 4113.M	METAL ROOF PANEL(S)
07 4113.R01	RAKE TRIM
07 4113.V01	VENTILATING RIDGE CAP
07 7200.S03	SNOW GUARD
07 9200.J	JOINT SEALANT
08 1113.S	STEEL DOOR
08 1113.S01	STEEL FRAME
08 7100.M	MORTISE LOCK
09 2116.M	METAL STUD
10 4400.S	SURFACE MOUNTED FIRE EXTINGUISHER

**SHEET KEYNOTES**

128	CONCRETE PAVING - REFER TO CIVIL PLANS.
237	FINISH GRADE. REFER TO CIVIL PLANS FOR ELEVATIONS.
293	MECHANICAL LOUVER.
329	PLUMBING FLOOR DRAIN.
350	PROCESS PIPING.
430	SLOPE SLAB TO FLOOR DRAIN - SEE STRUCTURAL FOUNDATION PLAN.

**WILSON & COMPANY**  
410 N. 44th Street, Suite 460  
Phoenix, AZ 85008  
Phone: (602) 283-2701

CONSULTANTS



PROJECT NAME:  
LAC JEMEZ MOUNTAIN REGIONAL FIRE PROTECTION SYSTEM PHSE 3

MARK	DATE	DESCRIPTION

PROJECT NO:  
20-600-894-03  
DRAWN BY TP  
CHECKED BY CRG  
SHEET TITLE  
**FLOOR PLAN & ELEVATIONS**

**A-101**  
SHEET \_\_\_ OF \_\_\_

GENERAL SHEET NOTES

- FINISH FLOOR ELEVATIONS INDICATED ARE BASED ON AN ELEVATION OF 100'-0" - REFER TO CIVIL GRADING AND DRAINAGE PLAN FOR CONTROL DATUM AND BENCHMARK INFORMATION.
- REFER TO STRUCTURAL FOUNDATION PLAN FOR CONCRETE AND MASONRY REINFORCING.

**WILSON & COMPANY**  
 410 N. 44th Street, Suite 460  
 Phoenix, AZ 85008  
 Phone: (602) 283-2701

CONSULTANTS



PROJECT NAME:  
 LAC JEMEZ MOUNTAIN  
 REGIONAL FIRE  
 PROTECTION SYSTEM  
 PHSE 3

REFERENCE SPECIFICATION SECTION  
 XX XXXX.XX

- REFERENCE KEYNOTES**
- 04 2900.C CONCRETE MASONRY UNITS
  - 06 1000.P PLYWOOD
  - 07 2100.B BLANKET INSULATION
  - 07 2100.B01 BOARD INSULATION
  - 07 2100.R01 RAFTER VENT
  - 07 2600.U UNDERSLAB VAPOR RETARDER
  - 07 2700.A02 AIR BARRIER, FLUID-APPLIED
  - 07 4113.E02 EAVE TRIM
  - 07 4113.M METAL ROOF PANEL(S)
  - 07 4113.R01 RAKE TRIM
  - 07 4113.V01 VENTILATING RIDGE CAP
  - 07 9200.J JOINT SEALANT

**SHEET KEYNOTES**

- 113 CAST-IN-PLACE CONCRETE SLAB.
- 237 FINISH GRADE. REFER TO CIVIL PLANS FOR ELEVATIONS.
- 293 MECHANICAL LOUVER.
- 350 PROCESS PIPING.
- 357 ROOF DECK - REFER TO STRUCTURAL DRAWINGS.
- 401 STRUCTURAL FRAMING MEMBER(S).
- 430 SLOPE SLAB TO FLOOR DRAIN - SEE STRUCTURAL FOUNDATION PLAN.
- 525 TERMINATE ROOF DECK, UNDERLAYMENT, AND ROOF PANELS 5 INCHES FROM RIDGE

MARK	DATE	DESCRIPTION

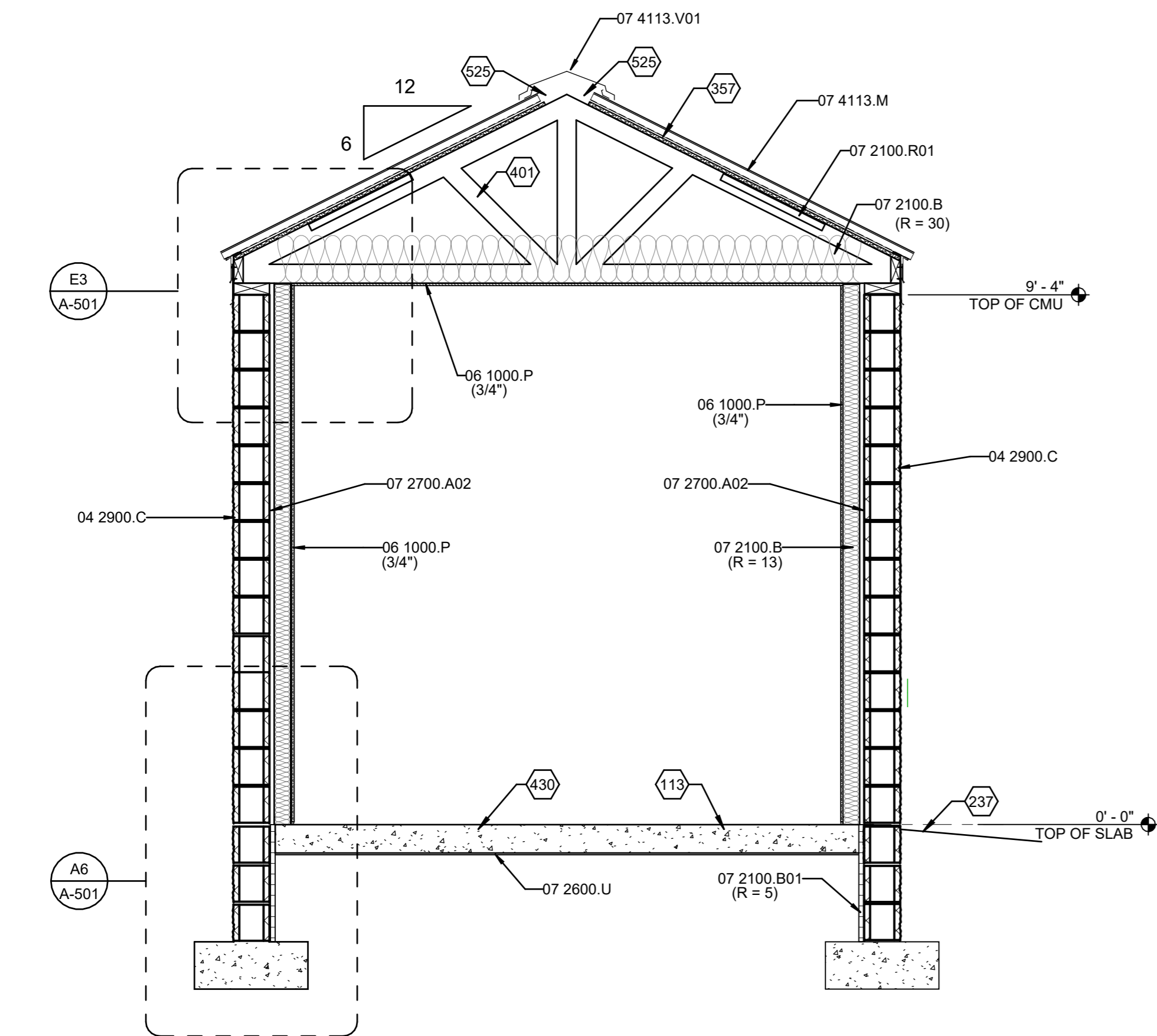
PROJECT NO:  
20-600-894-03

DRAWN BY TP

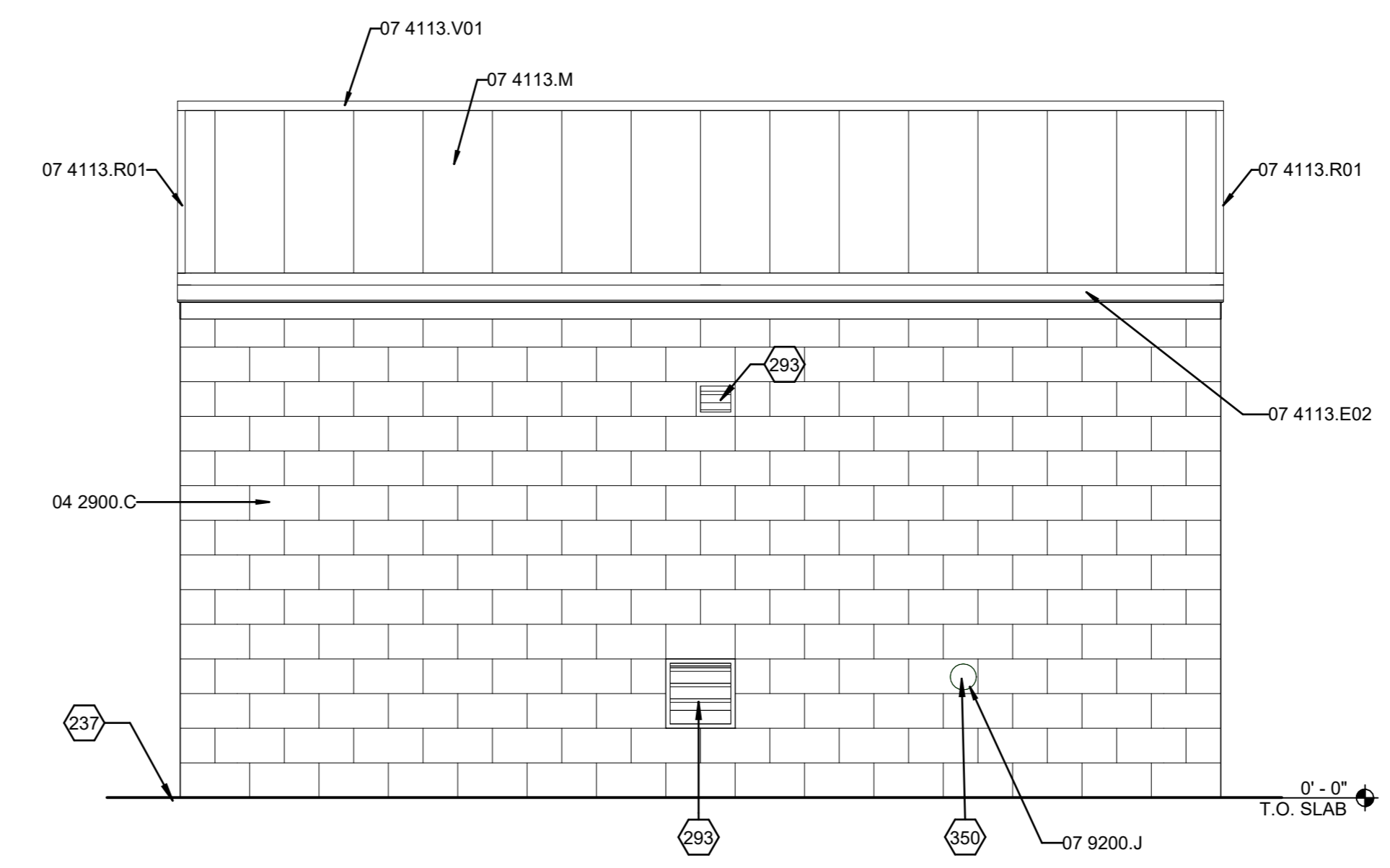
CHECKED BY CRG

SHEET TITLE  
**EXTERIOR ELEVATIONS**

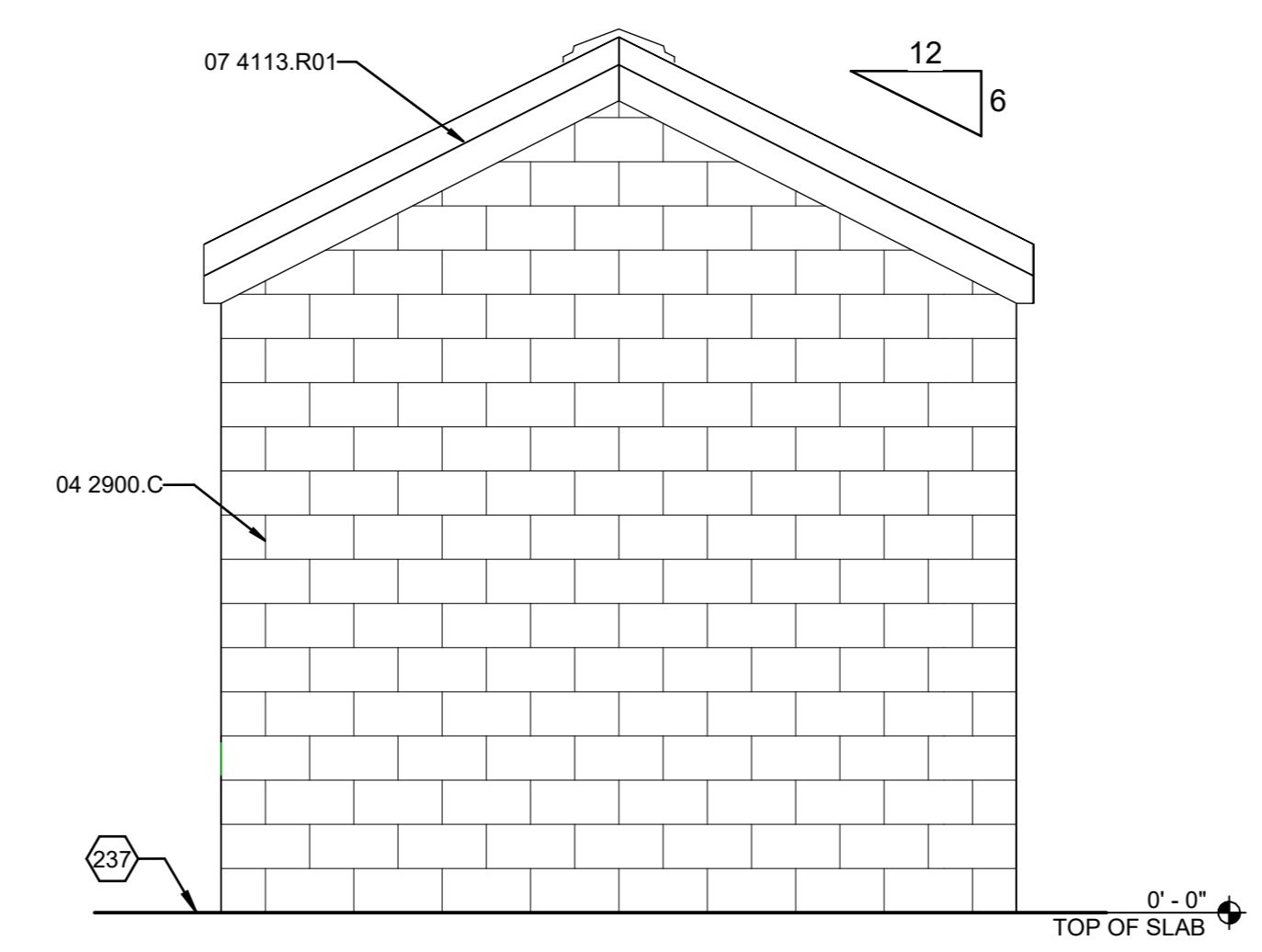
**A-201**  
 SHEET \_\_\_ OF \_\_\_



**D1 BUILDING SECTION**  
 1/2" = 1'-0"



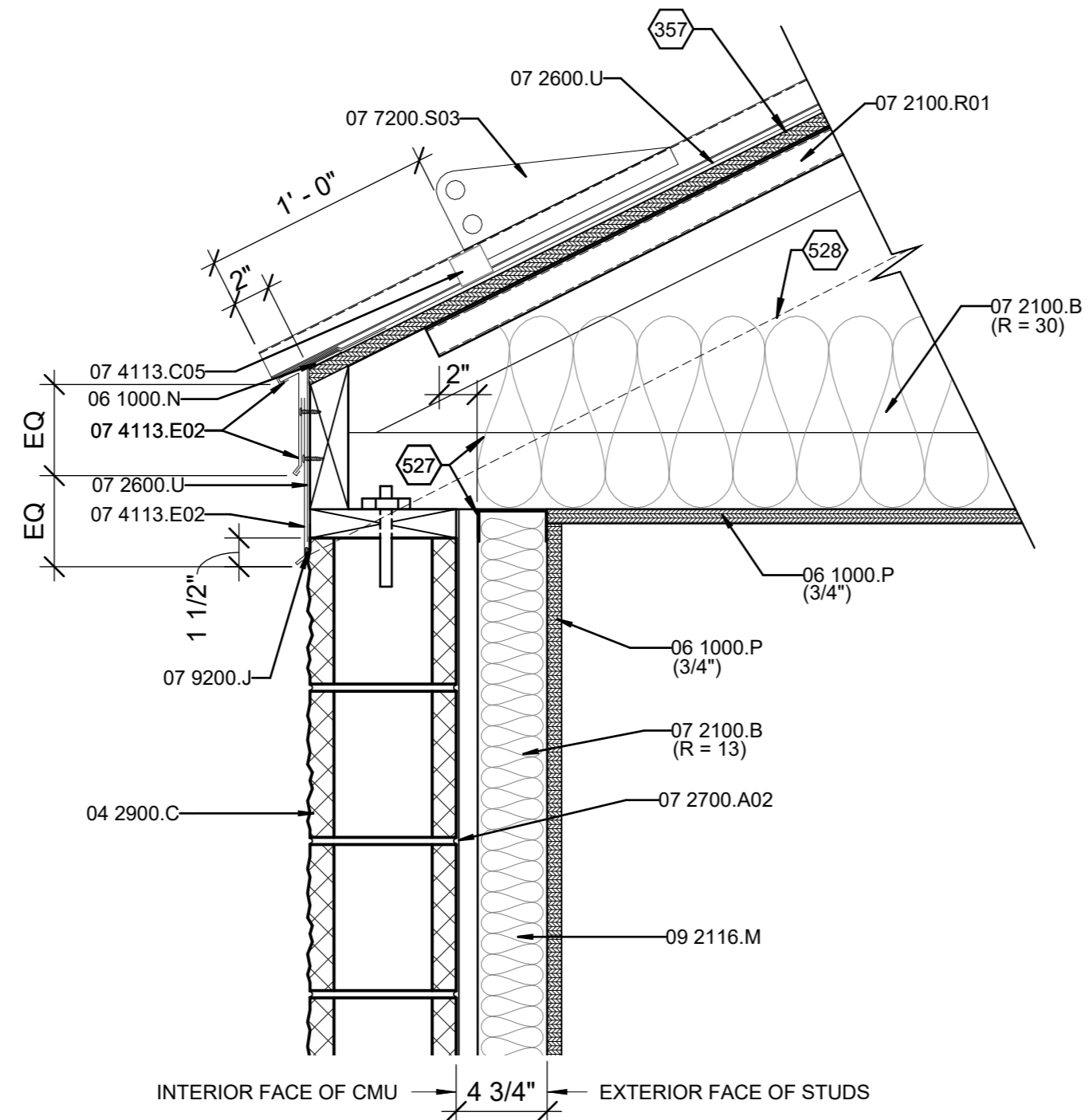
**D5 NORTH ELEVATION**  
 3/8" = 1'-0"



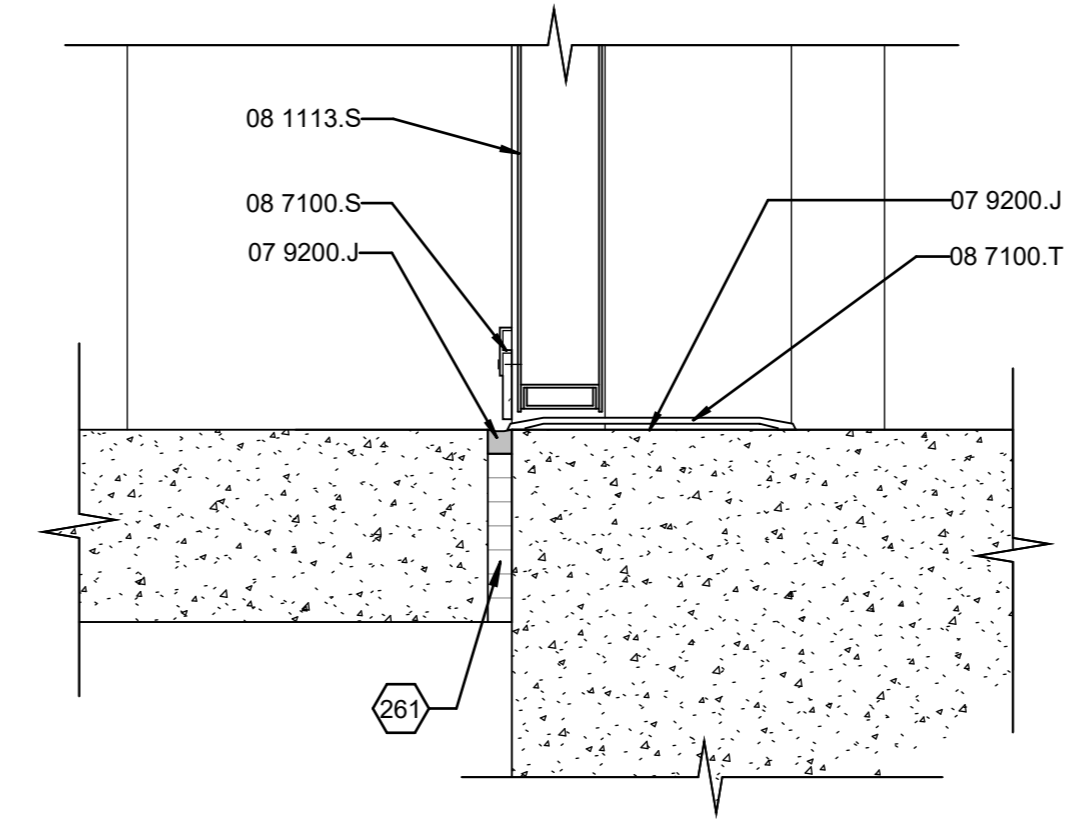
**A5 WEST ELEVATION**  
 3/8" = 1'-0"

**DOOR SCHEDULE**

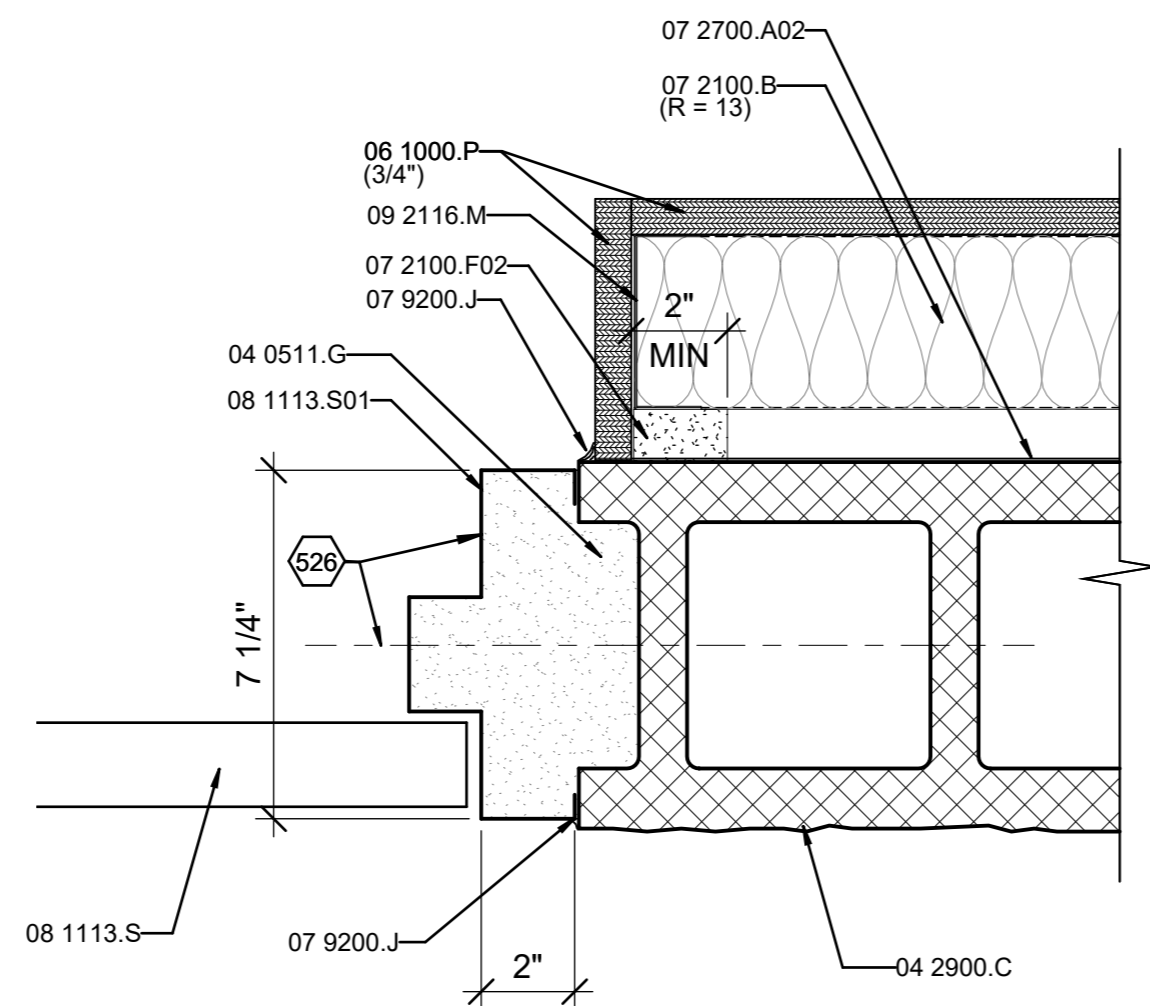
MARK	QTY	DOOR SIZE			MATL	EL	EL	MATL	FRAME DETAILS			FIRE RATING LABEL	SET NO	KEYSIDE	NOTES
		W	H	THK					HEAD	JAMB	SILL				
101	1	3'-8"	7'-2"	1 3/4"	HM	E1/A-101	E1/A-101	HM	B3/A-501 (SIM)	B3/A-501	E6/A-501	-	1	EXTERIOR	



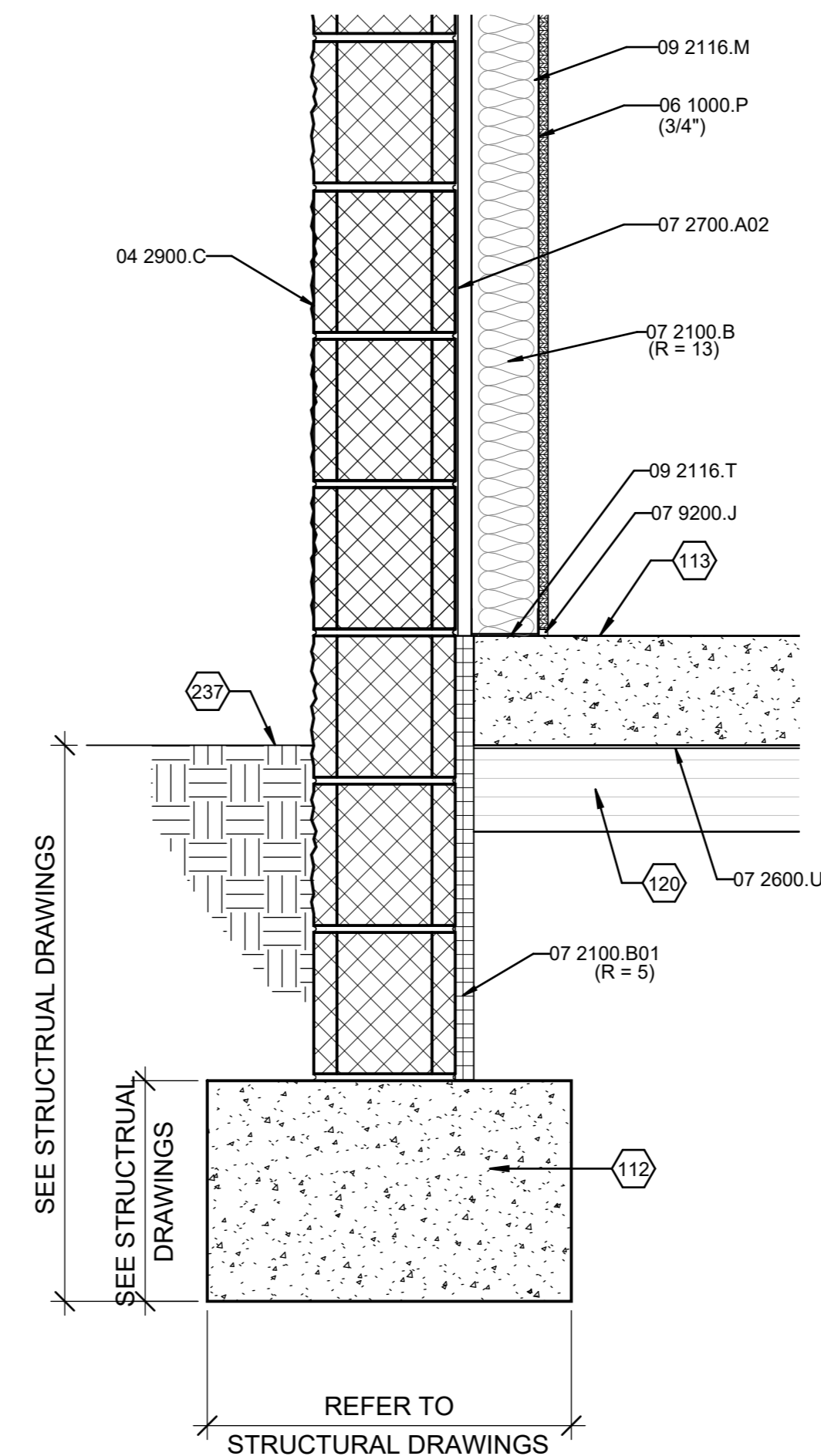
**E3 WALL TO ROOF**  
1 1/2" = 1'-0"



**E6 HM DOOR - SILL**  
3" = 1'-0"



**B3 DOOR JAMB (HEAD SIM)**  
3" = 1'-0"



**A6 EXTERIOR WALL**  
1 1/2" = 1'-0"

**GENERAL SHEET NOTES**

- FINISH FLOOR ELEVATIONS INDICATED ARE BASED ON AN ELEVATION OF 100'-0" - REFER TO CIVIL GRADING AND DRAINAGE PLAN FOR CONTROL DATUM AND BENCHMARK INFORMATION.
- REFER TO STRUCTURAL FOUNDATION PLAN FOR CONCRETE AND MASONRY REINFORCING.

**REFERENCE KEYNOTES**

- REFERENCE SPECIFICATION SECTION XX XXXX.XX
- 04 0511.G GROUT
  - 04 2900.C CONCRETE MASONRY UNITS
  - 06 1000.N NAILER
  - 06 1000.P PLYWOOD
  - 07 2100.B BLANKET INSULATION
  - 07 2100.B01 BOARD INSULATION
  - 07 2100.F02 FOAM INSULATION
  - 07 2100.R01 RAFTER VENT
  - 07 2600.U UNDERSLAB VAPOR RETARDER
  - 07 2700.A02 AIR BARRIER, FLUID-APPLIED
  - 07 4113.C05 CLIP
  - 07 4113.E02 EAVE TRIM
  - 07 7200.S03 SNOW GUARD
  - 07 9200.J JOINT SEALANT
  - 08 1113.S STEEL DOOR
  - 08 1113.S01 STEEL FRAME
  - 08 7100.S SWEEP
  - 08 7100.T THRESHOLD
  - 09 2116.M METAL STUD
  - 09 2116.T TRACK

**SHEET KEYNOTES**

- 112 CAST-IN-PLACE CONCRETE FOUNDATION.
- 113 CAST-IN-PLACE CONCRETE SLAB.
- 120 COMPACTED SUBGRADE.
- 237 FINISH GRADE. REFER TO CIVIL PLANS FOR ELEVATIONS.
- 261 JOINT FILLER - REFER TO STRUCTURAL PLANS.
- 357 ROOF DECK - REFER TO STRUCTURAL DRAWINGS.
- 526 ALIGN CENTERLINE OF DOOR FRAME WITH CENTERLINE OF CMU
- 527 TERMINATE BLANKET INSULATION AT EXTERIOR FACE OF STUD.
- 528 DASHED LINE INDICATES BOTTOM EDGE OF RAKE TRIM BEYOND.

**WILSON & COMPANY**  
410 N. 44th Street, Suite 460  
Phoenix, AZ 85008  
Phone: (602) 283-2701

CONSULTANTS



PROJECT NAME:  
**LAC JEMEZ MOUNTAIN  
REGIONAL FIRE  
PROTECTION SYSTEM  
PHSE 3**

MARK	DATE	DESCRIPTION

PROJECT NO:  
20-600-894-03

DRAWN BY TP

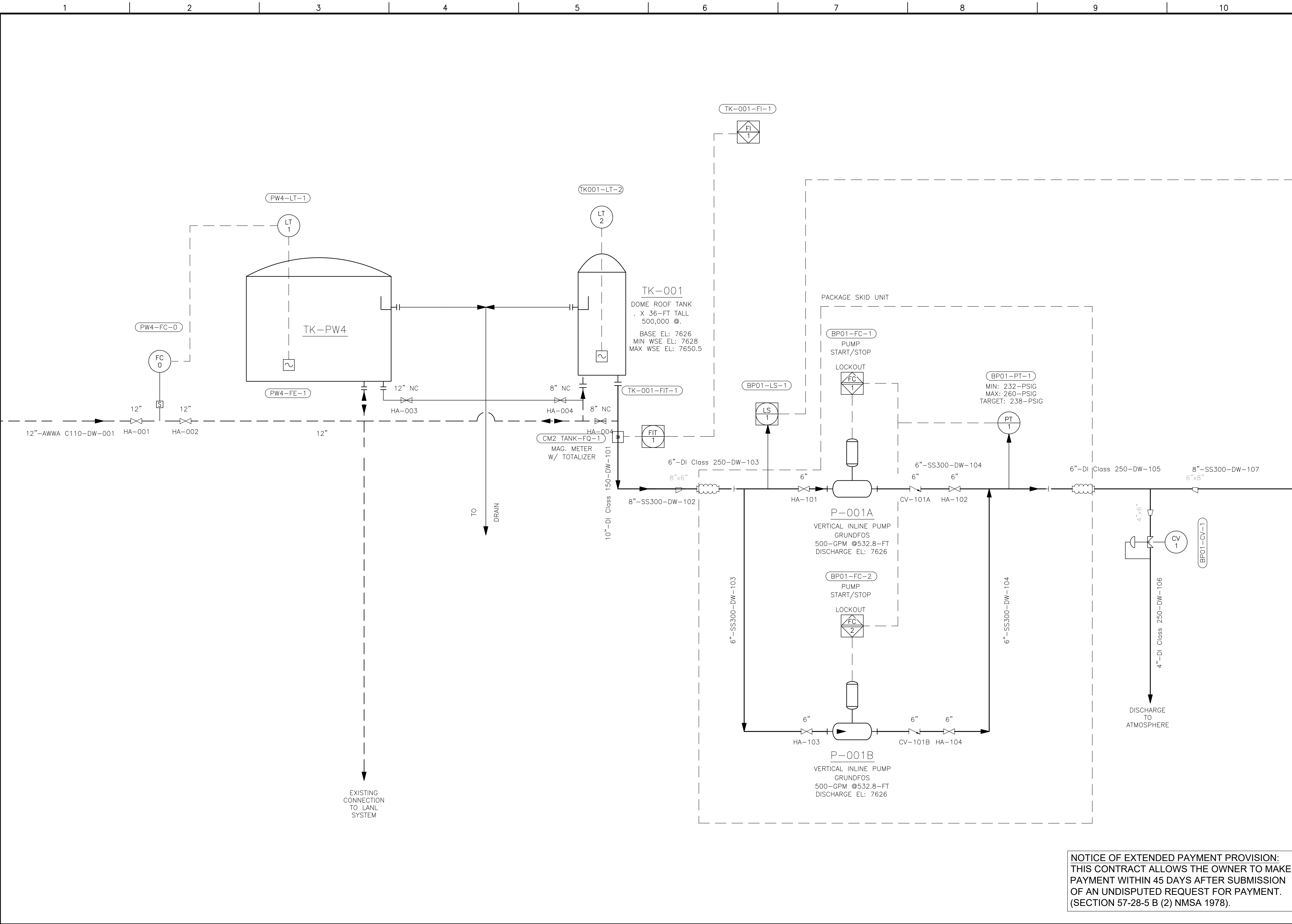
CHECKED BY CRG

SHEET TITLE  
**DETAILS**

**A-501**  
SHEET \_\_\_ OF \_\_\_

M:\MSD\20-600-894-03\2\_Disciplines\ SHEETS\8\_sheets - utilities\ PHASE III\04\_MECH\268943\_D-001\_D-005.dwg

3/11/2026



**NOTICE OF EXTENDED PAYMENT PROVISION:**  
 THIS CONTRACT ALLOWS THE OWNER TO MAKE  
 PAYMENT WITHIN 45 DAYS AFTER SUBMISSION  
 OF AN UNDISPUTED REQUEST FOR PAYMENT.  
 (SECTION 57-28-5 B (2) NMSA 1978).

**WILSON & COMPANY**  
 2600 THE AMERICAN RD. SE SUITE 100  
 RIO RANCHO, NM 87124  
 PHONE: 505-898-8021  
 FAX: 505-898-8501  
 www.wilsonco.com

CONSULTANTS

ROSA M. GABALDON  
 NEW MEXICO  
 PROFESSIONAL ENGINEER  
 3/11/26

PROJECT NAME  
**LAC JEMEZ MOUNTAIN  
 REGIONAL FIRE  
 PROTECTION SYSTEM  
 PHASE 3**

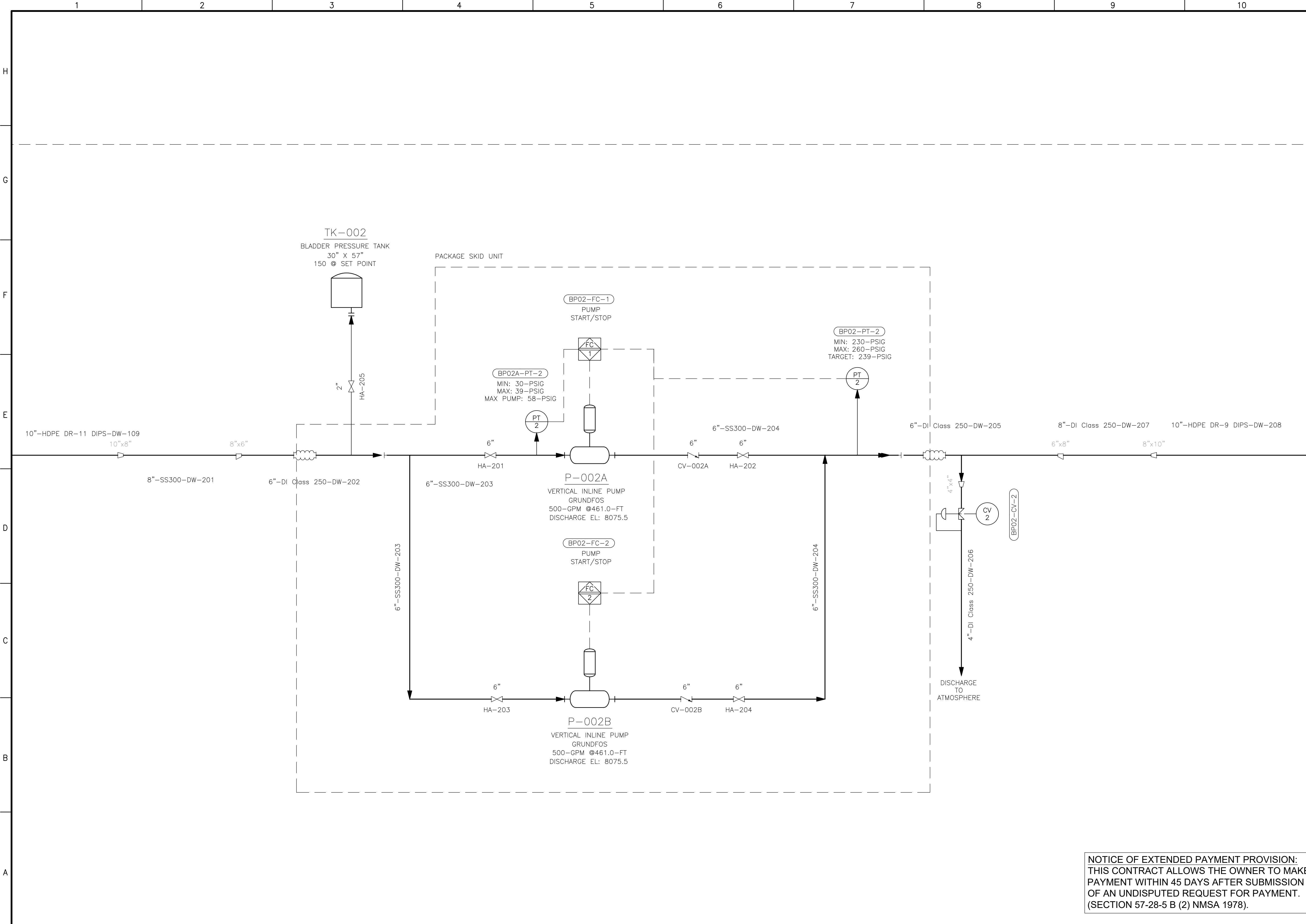
REV.	DATE	DESCRIPTION	BY

PROJECT NO: 22-600-894-03  
 DESIGNED BY: RMG  
 DRAWN BY: STAFF  
 CHECKED BY: RMG  
 DATE: MARCH 2026

SHEET TITLE  
**PROCESS FLOW  
 DIAGRAM - BPS 1**

SHEET NO:  
**D-001**

M:\MSD\20-600-894-032\_Disciplines\SHEETS\8\_sheets - utilities\PHASE III\04\_MECH\268943\_D-001\_D-005.dwg  
3/11/2026 Attachment A



**WILSON & COMPANY**  
 2600 THE AMERICAN RD. SE SUITE 100  
 RIO RANCHO, NM 87124  
 PHONE: 505-898-8021  
 FAX: 505-898-8501  
 www.wilsonco.com

CONSULTANTS



PROJECT NAME  
**LAC JEMEZ MOUNTAIN  
 REGIONAL FIRE  
 PROTECTION SYSTEM  
 PHASE 3**

REV.	DATE	DESCRIPTION	BY

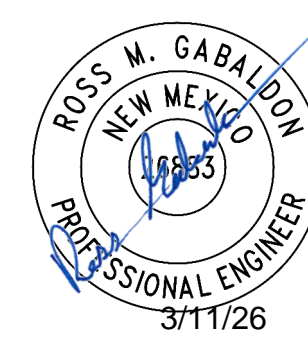
PROJECT NO: 22-600-894-03  
 DESIGNED BY: RMG  
 DRAWN BY: STAFF  
 CHECKED BY: RMG  
 DATE: MARCH 2026

SHEET TITLE  
**PROCESS FLOW  
 DIAGRAM - BPS 2**

SHEET NO:  
**D-002**

NOTICE OF EXTENDED PAYMENT PROVISION:  
 THIS CONTRACT ALLOWS THE OWNER TO MAKE  
 PAYMENT WITHIN 45 DAYS AFTER SUBMISSION  
 OF AN UNDISPUTED REQUEST FOR PAYMENT.  
 (SECTION 57-28-5 B (2) NMSA 1978).

CONSULTANTS



PROJECT NAME  
**LAC JEMEZ MOUNTAIN  
 REGIONAL FIRE  
 PROTECTION SYSTEM  
 PHASE 3**

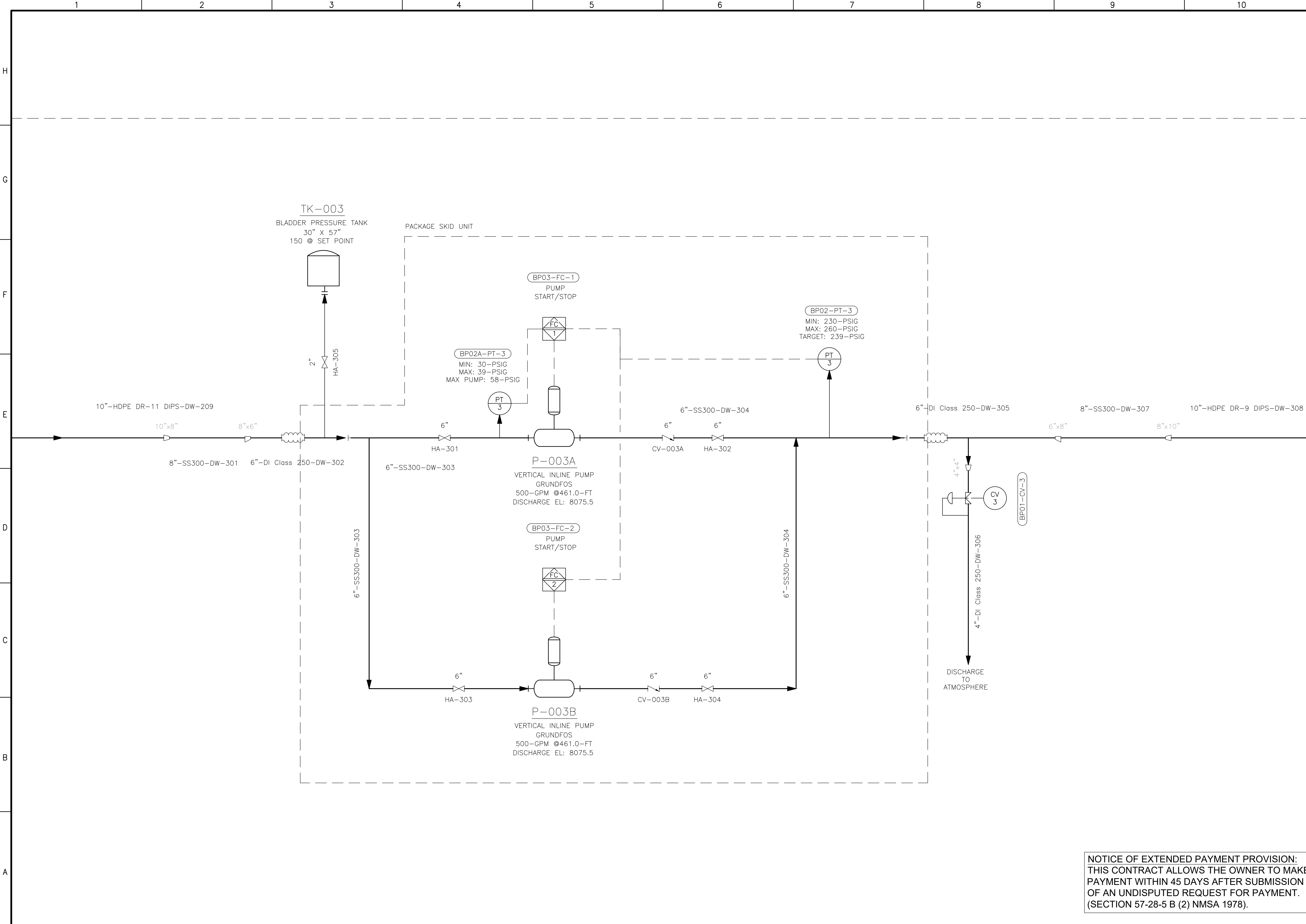
REV.	DATE	DESCRIPTION	BY

PROJECT NO: 22-600-894-03  
 DESIGNED BY: RMG  
 DRAWN BY: STAFF  
 CHECKED BY: RMG  
 DATE: MARCH 2026

SHEET TITLE  
**PROCESS FLOW  
 DIAGRAM - BPS 3**

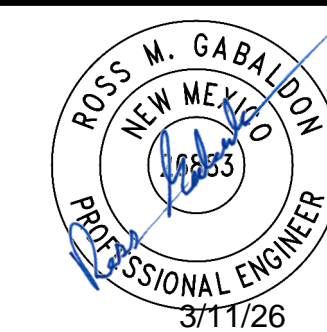
SHEET NO:  
**D-003**

NOTICE OF EXTENDED PAYMENT PROVISION:  
 THIS CONTRACT ALLOWS THE OWNER TO MAKE  
 PAYMENT WITHIN 45 DAYS AFTER SUBMISSION  
 OF AN UNDISPUTED REQUEST FOR PAYMENT.  
 (SECTION 57-28-5 B (2) NMSA 1978).



3/11/2026 M:\MSD\20-600-894-03\2\_Disciplines\sheets - utilities\PHASE III\04\_MECH\268943\_D-001\_D-005.dwg

CONSULTANTS



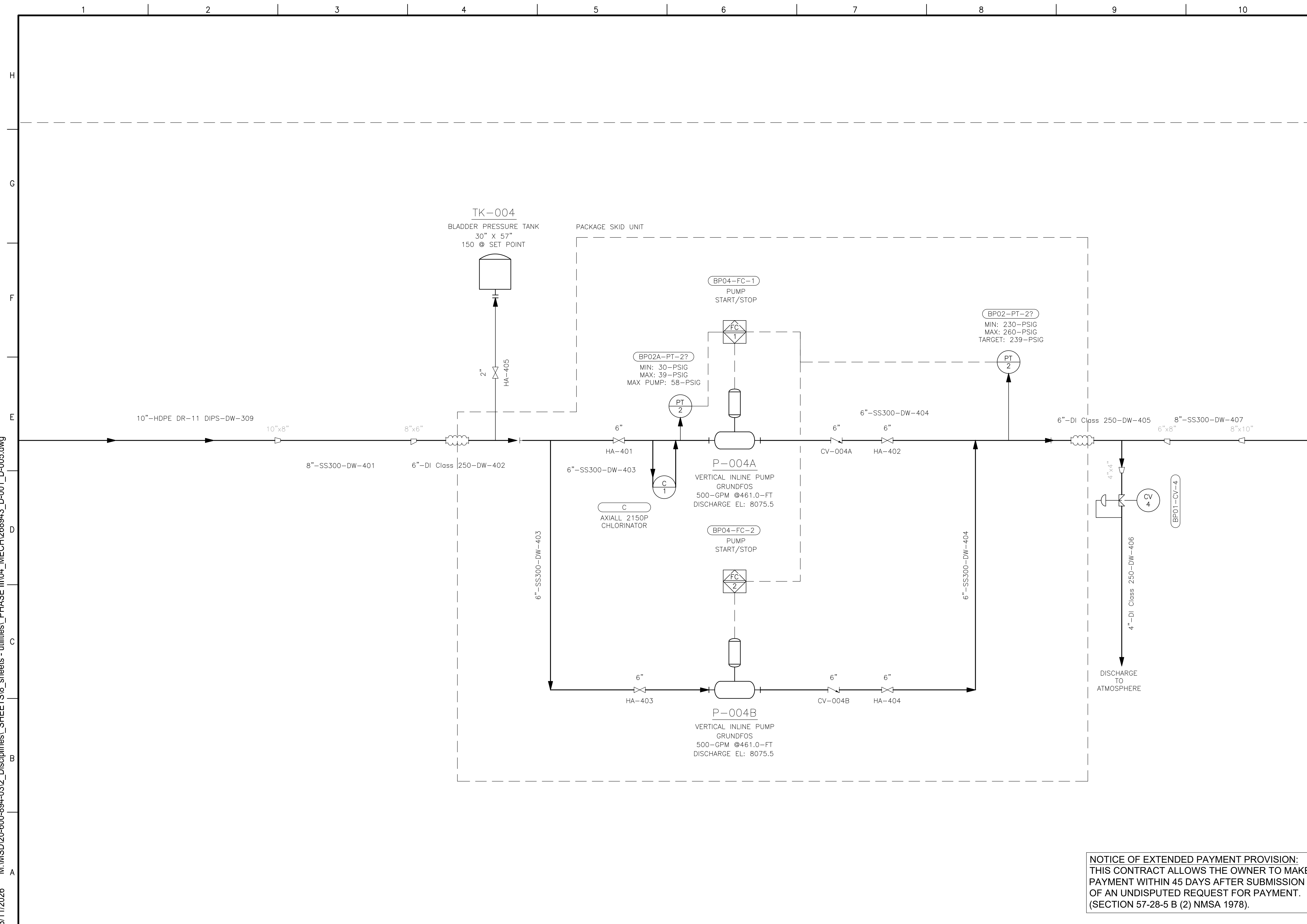
PROJECT NAME  
**LAC JEMEZ MOUNTAIN  
 REGIONAL FIRE  
 PROTECTION SYSTEM  
 PHASE 3**

REV.	DATE	DESCRIPTION	BY

PROJECT NO: 22-600-894-03  
 DESIGNED BY: RMG  
 DRAWN BY: STAFF  
 CHECKED BY: RMG  
 DATE: MARCH 2026

SHEET TITLE  
**PROCESS FLOW  
 DIAGRAM - BPS 4**

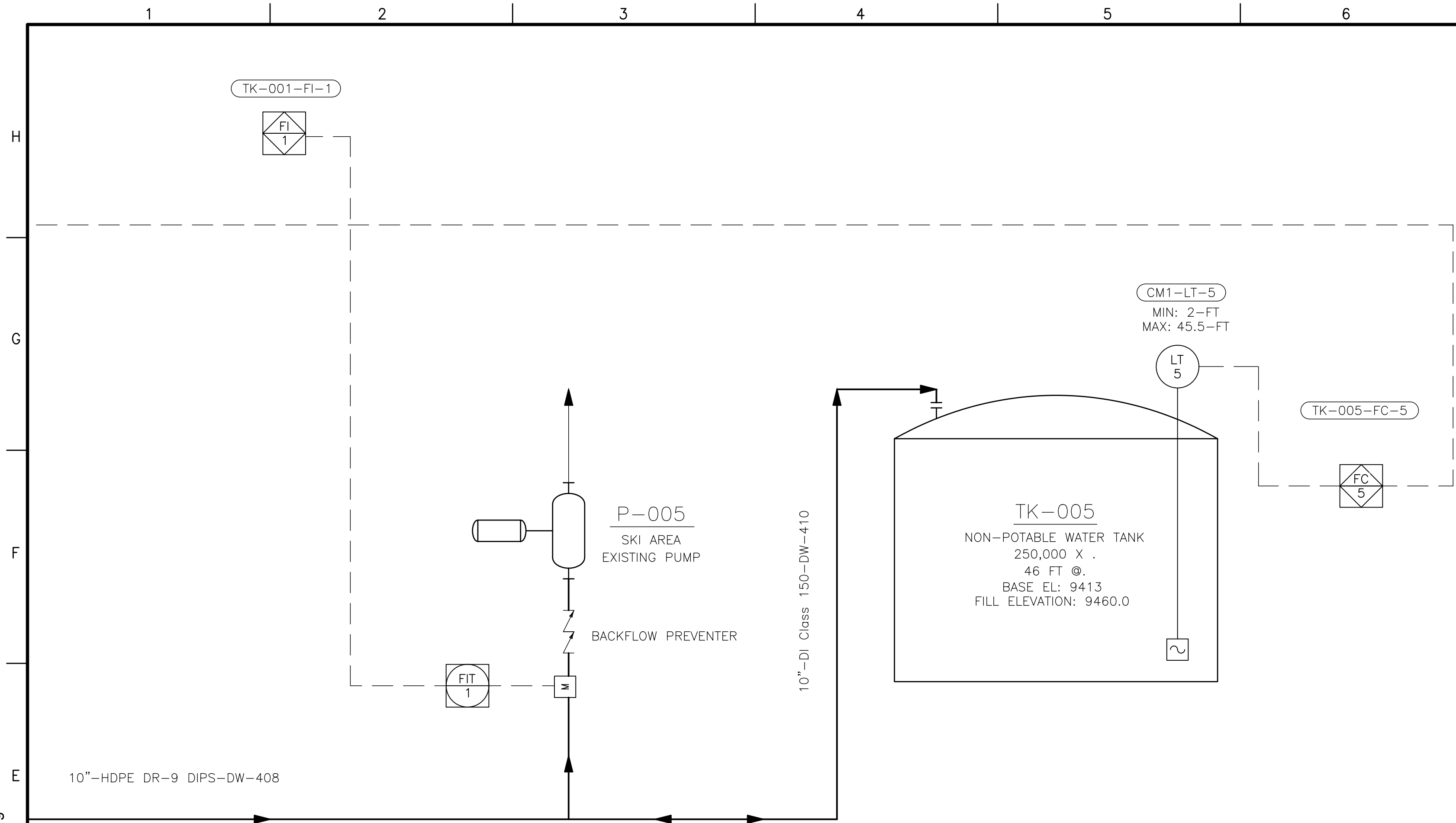
SHEET NO:  
**D-004**



**NOTICE OF EXTENDED PAYMENT PROVISION:**  
 THIS CONTRACT ALLOWS THE OWNER TO MAKE  
 PAYMENT WITHIN 45 DAYS AFTER SUBMISSION  
 OF AN UNDISPUTED REQUEST FOR PAYMENT.  
 (SECTION 57-28-5 B (2) NMSA 1978).

3/11/2026 M:\MSD\20-600-894-03\2\_Disciplines\SHEETS\8\_sheets - utilities\_PHASE III\04\_MECH\268943\_D-001\_D-005.dwg

3/11/2026 M:\MSD\20-600-894-03\2\_Disciplines\_SHEETS\8\_sheets - utilities\_PHASE III\04\_MECH\288943\_D-001\_D-005.dwg



**VALVE AND CONTROL VALVE SCHEDULE:**

TAG	SIZE	DESCRIPTION	ACTUATOR	STATUS	COMMENT	LOCATION
CV-101A	6"	CHECK VALVE	N/A		INCLUDED W/ PUMP SKID	BOOSTER PUMP STATION 1
CV-101B	6"	CHECK VALVE	N/A		INCLUDED W/ PUMP SKID	BOOSTER PUMP STATION 1
CV-002A	6"	CHECK VALVE	N/A		INCLUDED W/ PUMP SKID	BOOSTER PUMP STATION 2
CV-002B	6"	CHECK VALVE	N/A		INCLUDED W/ PUMP SKID	BOOSTER PUMP STATION 2
CV-003A	6"	CHECK VALVE	N/A		INCLUDED W/ PUMP SKID	BOOSTER PUMP STATION 3
CV-003B	6"	CHECK VALVE	N/A		INCLUDED W/ PUMP SKID	BOOSTER PUMP STATION 3
CV-004A	6"	CHECK VALVE	N/A		INCLUDED W/ PUMP SKID	BOOSTER PUMP STATION 4
CV-004B	6"	CHECK VALVE	N/A		INCLUDED W/ PUMP SKID	BOOSTER PUMP STATION 4
HA-001	12"	GATE VALVE	HAND		IN PW4-FC-0 VAULT	PW4 TANK FILL
HA-002	12"	GATE VALVE	HAND		IN PW4-FC-0 VAULT	PW4 TANK FILL
HA-101	6"	GATE VALVE	HAND		INCLUDED W/ PUMP SKID	BOOSTER PUMP STATION 2
HA-102	6"	GATE VALVE	HAND		INCLUDED W/ PUMP SKID	BOOSTER PUMP STATION 2
HA-103	6"	GATE VALVE	HAND		INCLUDED W/ PUMP SKID	BOOSTER PUMP STATION 2
HA-104	6"	GATE VALVE	HAND		INCLUDED W/ PUMP SKID	BOOSTER PUMP STATION 2
HA-105	2"	GATE VALVE	HAND		ISOLATION VALVE FOR BLADDER TANK	TK-001 CONNETION PIPING
HA-146	12"	GATE VALVE	2" NUT	NC	BURIED GATE VALVE ON PW4-FC-0 BYPASS	PW4 TANK FILL
HA-147	10"	GATE VALVE	2" NUT	NC	BURIED GATE VALVE	PW4 TO TK-001 OVERFLOW
HA-148	12"	GATE VALVE	2" NUT		BURIED GATE VALVE	PW4 TANK BYPASS LINE
HA-201	6"	GATE VALVE	HAND		INCLUDED W/ PUMP SKID	BOOSTER PUMP STATION 2
HA-202	6"	GATE VALVE	HAND		INCLUDED W/ PUMP SKID	BOOSTER PUMP STATION 2
HA-203	6"	GATE VALVE	HAND		INCLUDED W/ PUMP SKID	BOOSTER PUMP STATION 2
HA-204	6"	GATE VALVE	HAND		INCLUDED W/ PUMP SKID	BOOSTER PUMP STATION 2
HA-205	2"	GATE VALVE	HAND		ISOLATION VALVE FOR BLADDER TANK	TK-002 CONNETION PIPING
HA-301	6"	GATE VALVE	HAND		INCLUDED W/ PUMP SKID	BOOSTER PUMP STATION 2
HA-302	6"	GATE VALVE	HAND		INCLUDED W/ PUMP SKID	BOOSTER PUMP STATION 2
HA-303	6"	GATE VALVE	HAND		INCLUDED W/ PUMP SKID	BOOSTER PUMP STATION 2
HA-304	6"	GATE VALVE	HAND		INCLUDED W/ PUMP SKID	BOOSTER PUMP STATION 2
HA-305	2"	GATE VALVE	HAND		ISOLATION VALVE FOR BLADDER TANK	TK-003 CONNETION PIPING
HA-401	6"	GATE VALVE	HAND		INCLUDED W/ PUMP SKID	BOOSTER PUMP STATION 2
HA-402	6"	GATE VALVE	HAND		INCLUDED W/ PUMP SKID	BOOSTER PUMP STATION 2
HA-403	6"	GATE VALVE	HAND		INCLUDED W/ PUMP SKID	BOOSTER PUMP STATION 2
HA-404	6"	GATE VALVE	HAND		INCLUDED W/ PUMP SKID	BOOSTER PUMP STATION 2
HA-105	2"	GATE VALVE	HAND		ISOLATION VALVE FOR BLADDER TANK	TK-003 CONNETION PIPING

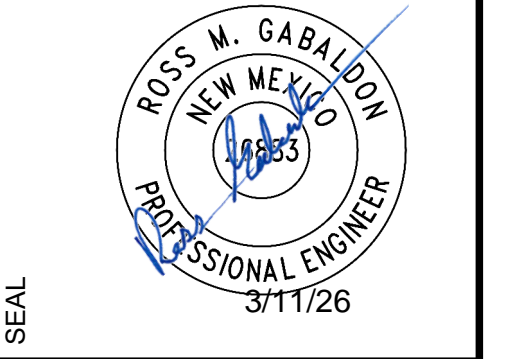
**INSTRUMENTATION & CONTROL VALVES**

CM1-LT-5	N/A	LIQUID LEVEL SENSOR AND TRANSMITTER			CONTROLS CM TANK 1-CV-5 IN HIGH WL LEVEL CONDITION; SENDS SIGNAL TO BP01 PUMPS TO SHUTDOWN WHEN TANK IS FULL	CAMP MAY NON-POTABLE WATER TANK
CM2 TANK-FQ-1	10"	FQ				
BP01-CV-1	4"	SURGE ANTICIPATOR VALVE	PRESSURE PILOT TUBE	NC	SURGE BLOW OFF VALVE TO ATMOSPHERE	BOOSTER PUMPS STATION 1
BP02-CV-2	4"	SURGE ANTICIPATOR VALVE	PRESSURE PILOT TUBE	NC	SURGE BLOW OFF VALVE TO ATMOSPHERE	BOOSTER PUMPS STATION 2
BP01-CV-3	4"	SURGE ANTICIPATOR VALVE	PRESSURE PILOT TUBE	NC	SURGE BLOW OFF VALVE TO ATMOSPHERE	BOOSTER PUMPS STATION 3
BP01-CV-4	4"	SURGE ANTICIPATOR VALVE	PRESSURE PILOT TUBE	NC	SURGE BLOW OFF VALVE TO ATMOSPHERE	BOOSTER PUMPS STATION 4
CM TANK 1-CV-5	10"	FLOW CONTROL VALVE	SOLNOID		MAINTAINS SYSTEM BACK PRESSURE, OPENS ON SCHEDULED START, ALLOWS PRESSURE DROP IN PIPELINE TO TRIGGER BP-04 TO START	VAULT LOCATED AT CAMP MAY NON-POTABLE WATER TANK
TK-007-CV-500	4"	CV	DIFFERENTIAL PRESSURE		DUAL CHECK BACKFLOW PREVENTOR	PAJARITO POTABLE WATER TANK FILL LINE
PW4-CV-0	12"	ALTITUDE VALVE	PRESSURE PILOT TUBE		EXISTING ALTITUDE VALVE OPENS WHEN PW4 HAS LOW LEVEL, CLOSES WHEN PW4 IS FULL	VAULT LOCATED AT PW4 TANK
PW4-FE-1	N/A	ULTRASONIC LEVEL SENSOR			ULTRASONIC LEVEL SENSOR CONTROLS CYCLING OF PW4-FC-0	PW4 TANK
PW4-FC-0	12"	THREE-WAY VALVE	PRESSURE PILOT TUBE		THRU FLOW WHEN PW4 CAN ACCEPT FLOW; BRANCH FLOW WHEN PW4 IS FULL AND TK-001 CAN ACCEPT FLOW; CLOSED WHEN PW4 AND TK-001 ARE FULL - REPLACES PW-CV-0	VAULT LOCATED AT PW4 TANK

**NOTICE OF EXTENDED PAYMENT PROVISION:**  
 THIS CONTRACT ALLOWS THE OWNER TO MAKE PAYMENT WITHIN 45 DAYS AFTER SUBMISSION OF AN UNDISPUTED REQUEST FOR PAYMENT. (SECTION 57-28-5 B (2) NMSA 1978).

**WILSON & COMPANY**  
 2600 THE AMERICAN RD. SE SUITE 100  
 RIO RANCHO, NM 87124  
 PHONE: 505-898-8021  
 FAX: 505-898-8501  
 www.wilsonco.com

CONSULTANTS



PROJECT NAME  
**LAC JEMEZ MOUNTAIN REGIONAL FIRE PROTECTION SYSTEM PHASE 3**

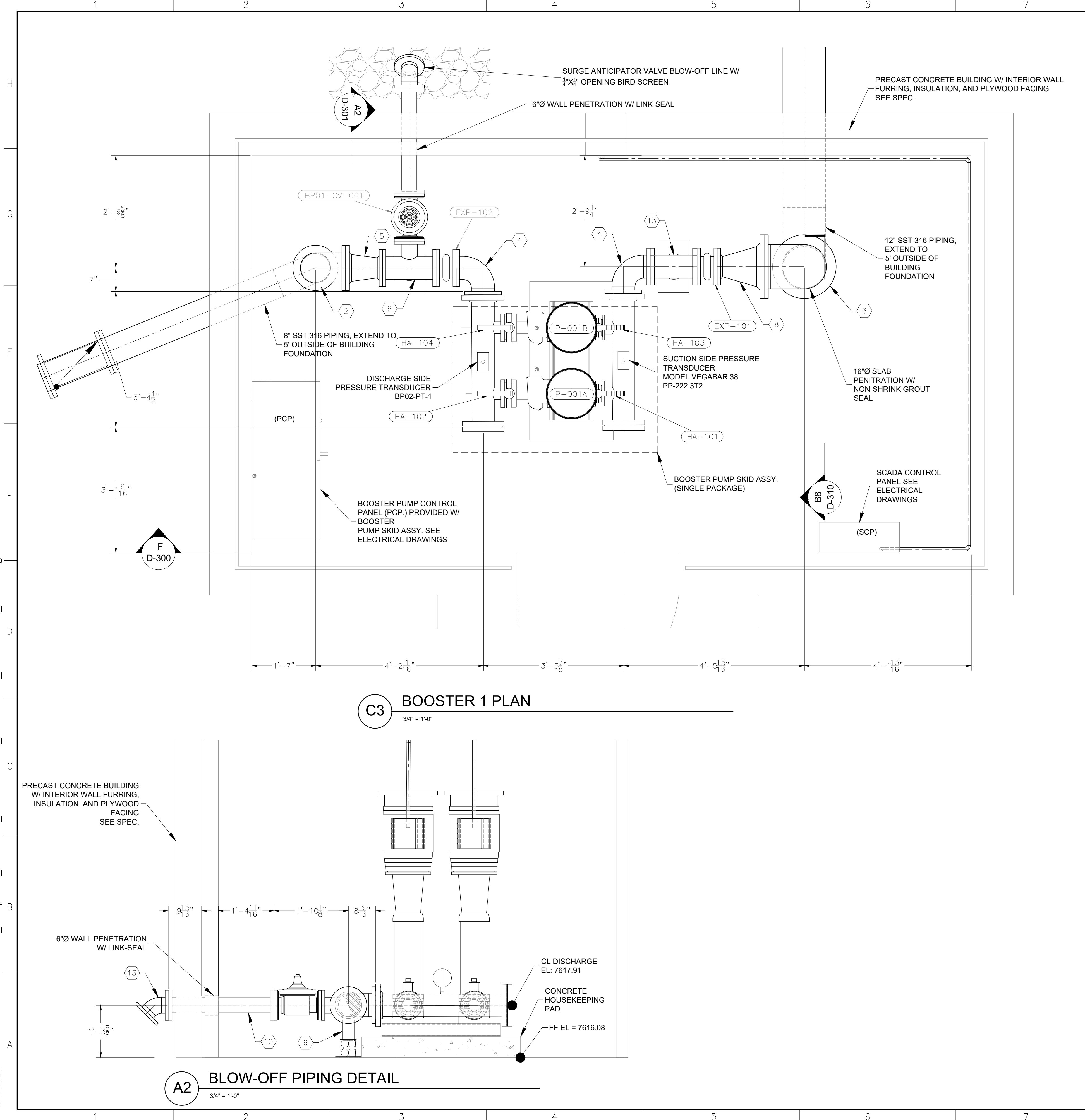
REV.	DATE	DESCRIPTION	BY

PROJECT NO: 22-600-894-03  
 DESIGNED BY: RMG  
 DRAWN BY: STAFF  
 CHECKED BY: RMG  
 DATE: MARCH 2026

SHEET TITLE  
**PROCESS FLOW DIAGRAM UPPER TANK SITE**

SHEET NO:  
**D-005**

M:\MSD\20-600-894-03\2\_Disciplines\_Sheets - utilities\_PHASE III\04\_MECH\56214\_D-101.dwg  
3/11/2026



**PROJECT EQUIPMENT SCHEDULE:**

TAG	DESCRIPTION	MANUFACTURER	MODEL	COMMENTS	LOCATION
TK-001	DOME ROOF TANK			500,000-GAL. TANK, 36' TALL x 50'-DIA. WELDED STEEL POTABLE WATER TANK - SEE PHASE 4	PAJARITO TANK 4 SITE
TK-002	BLADDER PRESSURE TANK	GRUNDFOS	GFXA-500	139-GAL. PRESSURE TANK W/ 2" BOTTOM PORT	BOOSTER PUMP STATION 2
TK-005	NON-POTABLE WATER TANK			EXISTING TANK	PAJARITO SKI AREA
TK-003	BLADDER PRESSURE TANK	GRUNDFOS	GFXA-500	139-GAL. PRESSURE TANK W/ 2" NPT BOTTOM PORT, 200-PSIG RATING	BOOSTER PUMP STATION 3
TK-004	BLADDER PRESSURE TANK	GRUNDFOS	GFXA-500	139-GAL. PRESSURE TANK W/ 2" BOTTOM PORT	BOOSTER PUMP STATION 3
TK-PW4	DOME ROOF TANK			EXIST. 1.5-MG NON-POTABLE WATER TANK	PAJARITO TANK 4 SITE
P-001A	VERTICAL INLINE PUMP	GRUNDFOS	CR45-7-2	Q=250 GPM @ 518.3 FT @ 85.37% HEAD RATIO, 50-HP, 3/480V/60Hz, RATED SPEED = 3370 RPM	BOOSTER PUMP STATION 1
P-001B	VERTICAL INLINE PUMP	GRUNDFOS	CR45-7-2	Q=250 GPM @ 518.3 FT @ 85.37% HEAD RATIO, 50-HP, 3/480V/60Hz, RATED SPEED = 3370 RPM	BOOSTER PUMP STATION 1
P-002A	VERTICAL INLINE PUMP	GRUNDFOS	CR45-7-2	Q=250 GPM @ 443.9 FT @ 73.17% HEAD RATIO, 50-HP, 3/480V/60Hz, RATED SPEED = 3211 RPM	BOOSTER PUMP STATION 2
P-002B	VERTICAL INLINE PUMP	GRUNDFOS	CR45-7-2	Q=250 GPM @ 443.9 FT @ 73.17% HEAD RATIO, 50-HP, 3/480V/60Hz, RATED SPEED = 3211 RPM	BOOSTER PUMP STATION 2
P-003A	VERTICAL INLINE PUMP	GRUNDFOS	CR45-7-2	Q=250 GPM @ 443.9 FT @ 73.17% HEAD RATIO, 50-HP, 3/480V/60Hz, RATED SPEED = 3211 RPM	BOOSTER PUMP STATION 3
P-003B	VERTICAL INLINE PUMP	GRUNDFOS	CR45-7-2	Q=250 GPM @ 443.9 FT @ 73.17% HEAD RATIO, 50-HP, 3/480V/60Hz, RATED SPEED = 3211 RPM	BOOSTER PUMP STATION 3
P-004B	VERTICAL INLINE PUMP	GRUNDFOS	CR45-7-2	Q=250 GPM @ 443.9 FT @ 73.17% HEAD RATIO, 50-HP, 3/480V/60Hz, RATED SPEED = 3211 RPM	BOOSTER PUMP STATION 4
P-004A	VERTICAL INLINE PUMP	GRUNDFOS	CR45-7-2	Q=250 GPM @ 443.9 FT @ 73.17% HEAD RATIO, 50-HP, 3/480V/60Hz, RATED SPEED = 3211 RPM	BOOSTER PUMP STATION 4

**FITTING SCHEDULE**

ITEM NO.	DESCRIPTION	QTY
1	12" DI FLANGE, 150-LB	1
2	8" DI 90-DEG BEND FLxFL	1
3	12" DI 90-DEG BEND FLxFL	1
4	6" DI 90-DEG BEND FLxFL	2
5	6"x8" DI ECC. RED. FLxFL	1
6	6"x4" DI TEE FLxFL	1
7	3" STL. ADJUSTABLE STANCTION	2
8	12"x6" DI ECC. RED. FLxFL	1
9	8" DI FLANGE, 250-LB	1
10	4" DI PIPE SPOOL	-
11	4" DI 45-DEG BEND FLxFL W/ 1/4"x1/4" BIRD SCREEN	1
12	4" DI FLANGE, 250-LB	1
13	6" DI PIPE SPOOL	1

NOTICE OF EXTENDED PAYMENT PROVISION:  
THIS CONTRACT ALLOWS THE OWNER TO MAKE PAYMENT WITHIN 45 DAYS AFTER SUBMISSION OF AN UNDISPUTED REQUEST FOR PAYMENT. (SECTION 57-28-5 B (2) NMSA 1978).

**WILSON & COMPANY**  
2600 THE AMERICAN RD, SUITE 100  
RIO RANCHO, NM 87124  
PHONE: 505-898-8021  
FAX: 505-898-8501  
www.wilsonco.com

CONSULTANTS



SEAL

**LAC JEMEZ MOUNTAIN REGIONAL FIRE PROTECTION SYSTEM PHASE 3**

PROJECT NAME

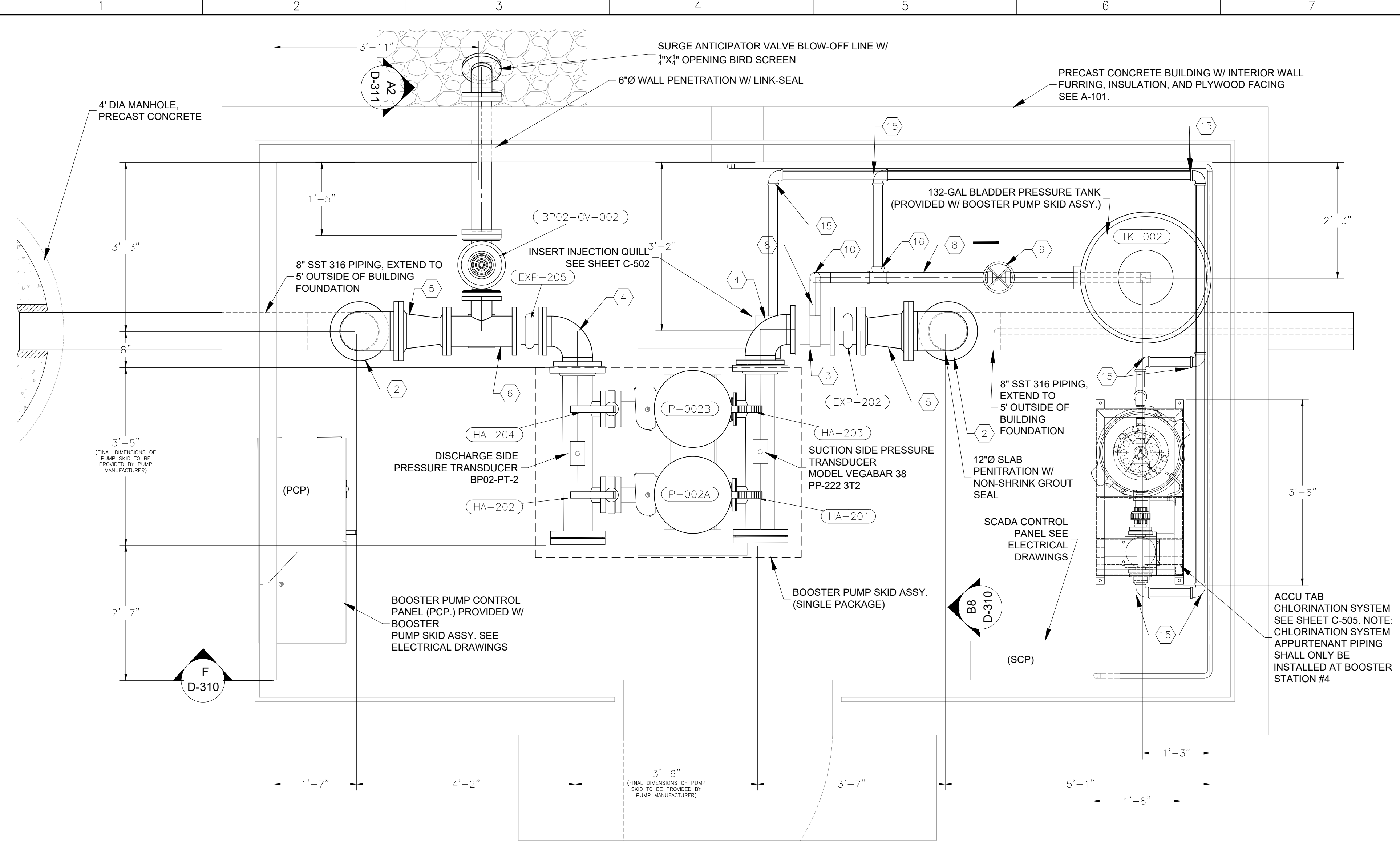
REV.	DATE	DESCRIPTION	BY

PROJECT NO: 22-600-894-03  
DESIGNED BY: RMG  
DRAWN BY: STAFF  
CHECKED BY: RMG  
DATE: MARCH 2026

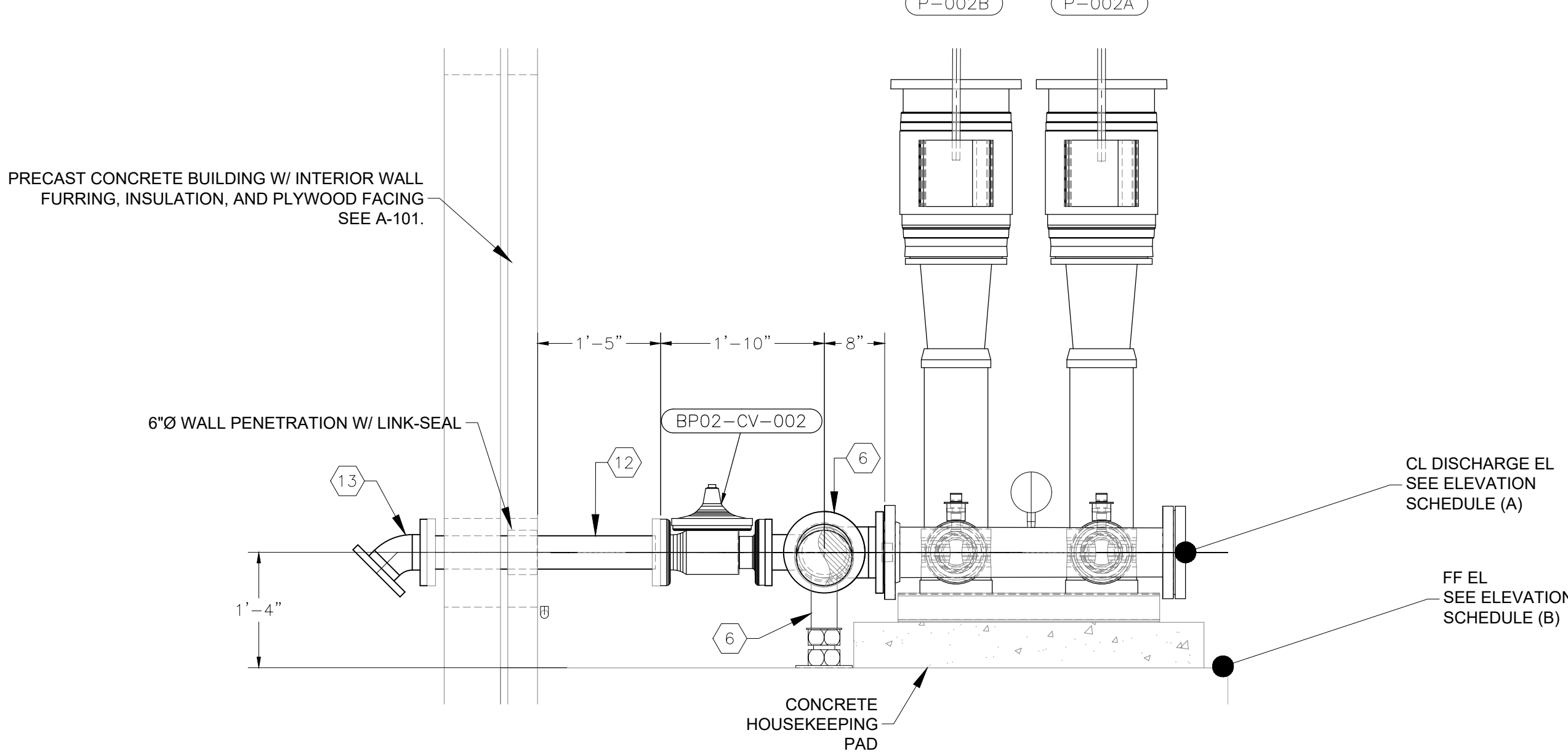
SHEET TITLE  
**BOOSTER STATION 1 PLAN AND DETAILS**

SHEET NO: **D-101**

M:\MSD\20-600-894-03\2\_Disciplines\_SHEETS\8\_sheets - utilities\_PHASE III\04\_MECH\56214\_D-102.dwg  
3/11/2026



**C3 BOOSTER 2, 3, AND 4 PLAN**  
3/4" = 1'-0"



**A2 BLOW-OFF PIPING DETAIL**  
3/4" = 1'-0"

**EQUIPMENT SCHEDULE:**

TAG	DESCRIPTION	MANUFACTURER	MODEL	COMMENTS	LOCATION
TK-001	DOME ROOF TANK			500,000-GAL TANK, 36' TALL x 50'-DIA, WELDED STEEL POTABLE WATER TANK - SEE PHASE 4	PAJARITO TANK 4 SITE
TK-002	BLADDER PRESSURE TANK	GRUNDFOS	GFXA-500	139-GAL. PRESSURE TANK W/ 2" BOTTOM PORT	BOOSTER PUMP STATION 2
TK-005	NON-POTABLE WATER TANK			EXISTING TANK	PAJARITO SKI AREA
TK-003	BLADDER PRESSURE TANK	GRUNDFOS	GFXA-500	139-GAL. PRESSURE TANK W/ 2" NPT BOTTOM PORT, 200-PSIG RATING	BOOSTER PUMP STATION 3
TK-004	BLADDER PRESSURE TANK	GRUNDFOS	GFXA-500	139-GAL. PRESSURE TANK W/ 2" BOTTOM PORT	BOOSTER PUMP STATION 3
TK-PW4	DOME ROOF TANK			EXIST. 1.5-MG NON-POTABLE WATER TANK	PAJARITO TANK 4 SITE
P-001A	VERTICAL INLINE PUMP	GRUNDFOS	CR45-7-2	Q=250 GPM @ 518.3 FT @ 85.37% HEAD RATIO, 50-HP, 3/480V/60Hz, RATED SPEED = 3370 RPM	BOOSTER PUMP STATION 1
P-001B	VERTICAL INLINE PUMP	GRUNDFOS	CR45-7-2	Q=250 GPM @ 518.3 FT @ 85.37% HEAD RATIO, 50-HP, 3/480V/60Hz, RATED SPEED = 3370 RPM	BOOSTER PUMP STATION 1
P-002A	VERTICAL INLINE PUMP	GRUNDFOS	CR45-7-2	Q=250 GPM @ 443.9 FT @ 73.17% HEAD RATIO, 50-HP, 3/480V/60Hz, RATED SPEED = 3211 RPM	BOOSTER PUMP STATION 2
P-002B	VERTICAL INLINE PUMP	GRUNDFOS	CR45-7-2	Q=250 GPM @ 443.9 FT @ 73.17% HEAD RATIO, 50-HP, 3/480V/60Hz, RATED SPEED = 3211 RPM	BOOSTER PUMP STATION 2
P-003A	VERTICAL INLINE PUMP	GRUNDFOS	CR45-7-2	Q=250 GPM @ 443.9 FT @ 73.17% HEAD RATIO, 50-HP, 3/480V/60Hz, RATED SPEED = 3211 RPM	BOOSTER PUMP STATION 3
P-003B	VERTICAL INLINE PUMP	GRUNDFOS	CR45-7-2	Q=250 GPM @ 443.9 FT @ 73.17% HEAD RATIO, 50-HP, 3/480V/60Hz, RATED SPEED = 3211 RPM	BOOSTER PUMP STATION 3
P-004B	VERTICAL INLINE PUMP	GRUNDFOS	CR45-7-2	Q=250 GPM @ 443.9 FT @ 73.17% HEAD RATIO, 50-HP, 3/480V/60Hz, RATED SPEED = 3211 RPM	BOOSTER PUMP STATION 4
P-004A	VERTICAL INLINE PUMP	GRUNDFOS	CR45-7-2	Q=250 GPM @ 443.9 FT @ 73.17% HEAD RATIO, 50-HP, 3/480V/60Hz, RATED SPEED = 3211 RPM	BOOSTER PUMP STATION 4
C	CHLORINATOR	AXIALL	2150P	SI CALCIUM HYPOCHLORITE TABLETS, 8-40 GPM FLOW METER, 20 GAL PVC TANK, CR5-20 480-3PHASE GRUNDFOS PUMP	BOOSTER PUMP STATION 4

**FITTING SCHEDULE**

ITEM NO.	DESCRIPTION	QTY
1	8" DI FLANGE, 150-LB	1
2	8" DI 90-DEG BEND FLXFL	2
3	6" DI SPOOL W/ 2" TAPPING SADDLE	1
4	6" DI 90-DEG BEND FLXFL	2
5	6"x8" DI ECC. RED. FLXFL	2
6	6"x4" DI TEE FLXFL	1
7	3" STL ADJUSTABLE STANCTION	2
8	2" GALV. STL PIPE, NPT	-
9	2" BRASS GAVE VALVE W/ DISSIMILAR METAL ISOLATORS	1
10	2" GALV. STL 90-DEG ELBOW, NPT	1
11	8' DI FLANGE, 250-LB	1
12	4" DI PIPE SPOOL	-
13	4" DI 45-DEG BEND FLXFL W/ 1/4"x1/4" BIRD SCREEN	1
14	4" DI FLANGE, 250-LB	1
15	2" DI 90-DEG BEND FLXFL	8
16	2"x2" DI TEE FLXFL	1

**ELEVATION SCHEDULE**

PUMP STATION	CL DISCHARGE EL (A)	FF EL (B)
2	8075.5	8074.2
3	8570.5	8519.2
4	8933	8931.7

NOTICE OF EXTENDED PAYMENT PROVISION: THIS CONTRACT ALLOWS THE OWNER TO MAKE PAYMENT WITHIN 45 DAYS AFTER SUBMISSION OF AN UNDISPUTED REQUEST FOR PAYMENT. (SECTION 57-28-5 B (2) NMSA 1978).

**WILSON & COMPANY**  
2600 THE AMERICAN RD, SUITE 100  
RIO RANCHO, NM 87124  
PHONE: 505-898-8021  
FAX: 505-898-8501  
www.wilsonco.com

CONSULTANTS  
**ROSS M. GABALDON**  
NEW MEXICO  
PROFESSIONAL ENGINEER  
3/11/26

PROJECT NAME  
**LAC JEMEZ MOUNTAIN REGIONAL FIRE PROTECTION SYSTEM PHASE 3**

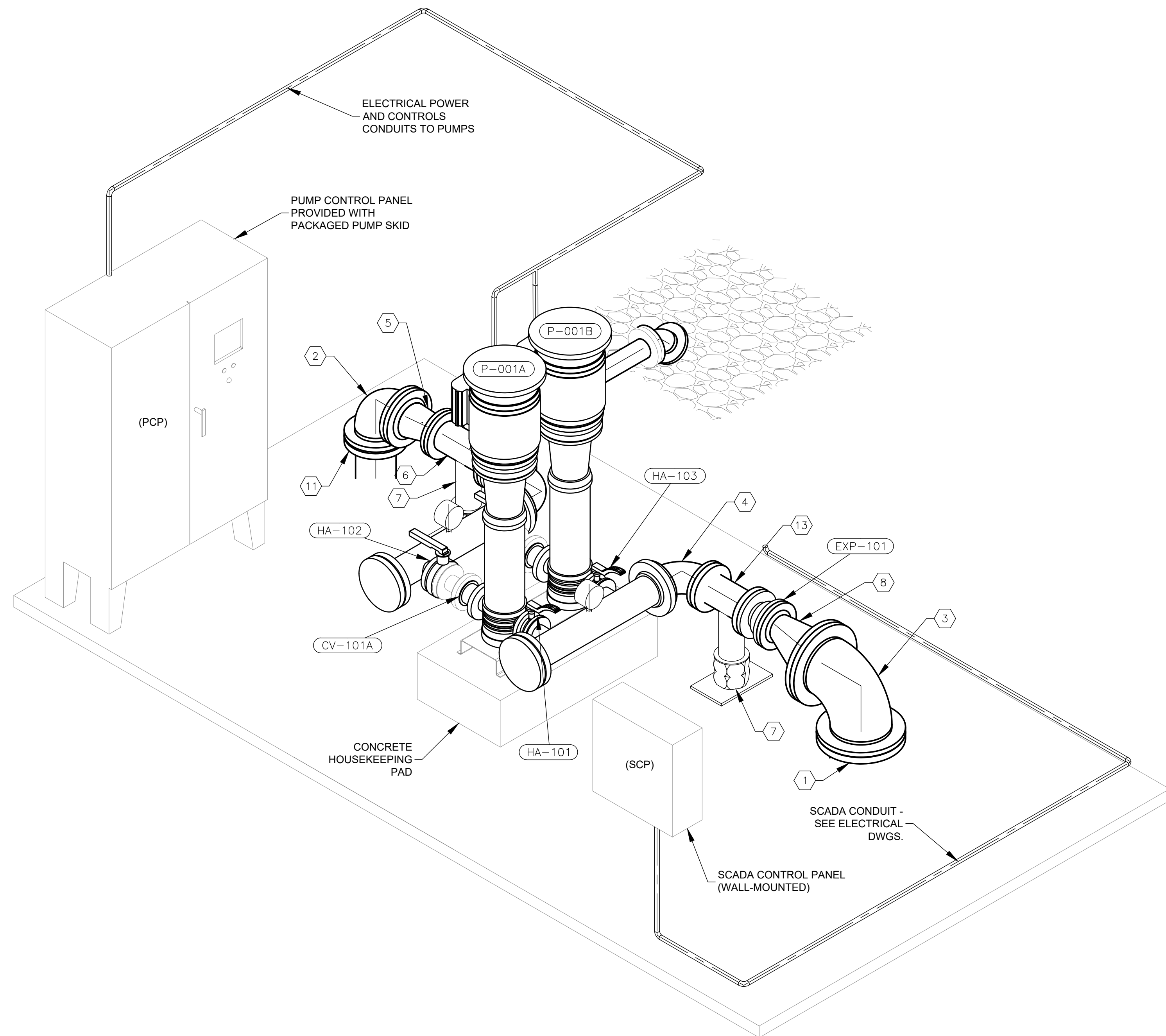
REV.	DATE	DESCRIPTION	BY

PROJECT NO: 22-600-894-03  
DESIGNED BY: RMG  
DRAWN BY: STAFF  
CHECKED BY: RMG  
DATE: MARCH 2026

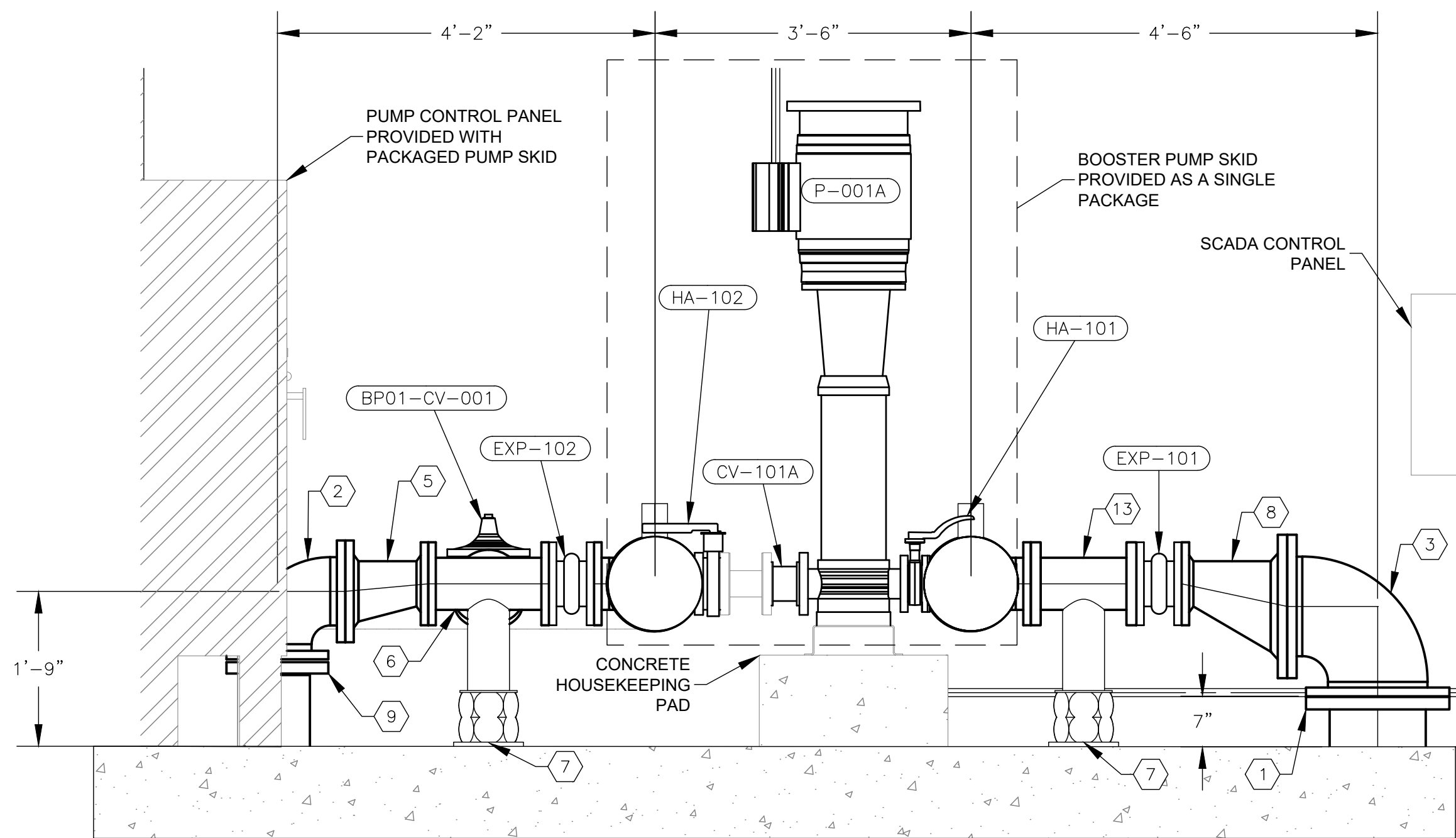
SHEET TITLE  
**BOOSTER STATION 2, 3, AND 4 PLAN & DETAILS**

SHEET NO:  
**D-102**

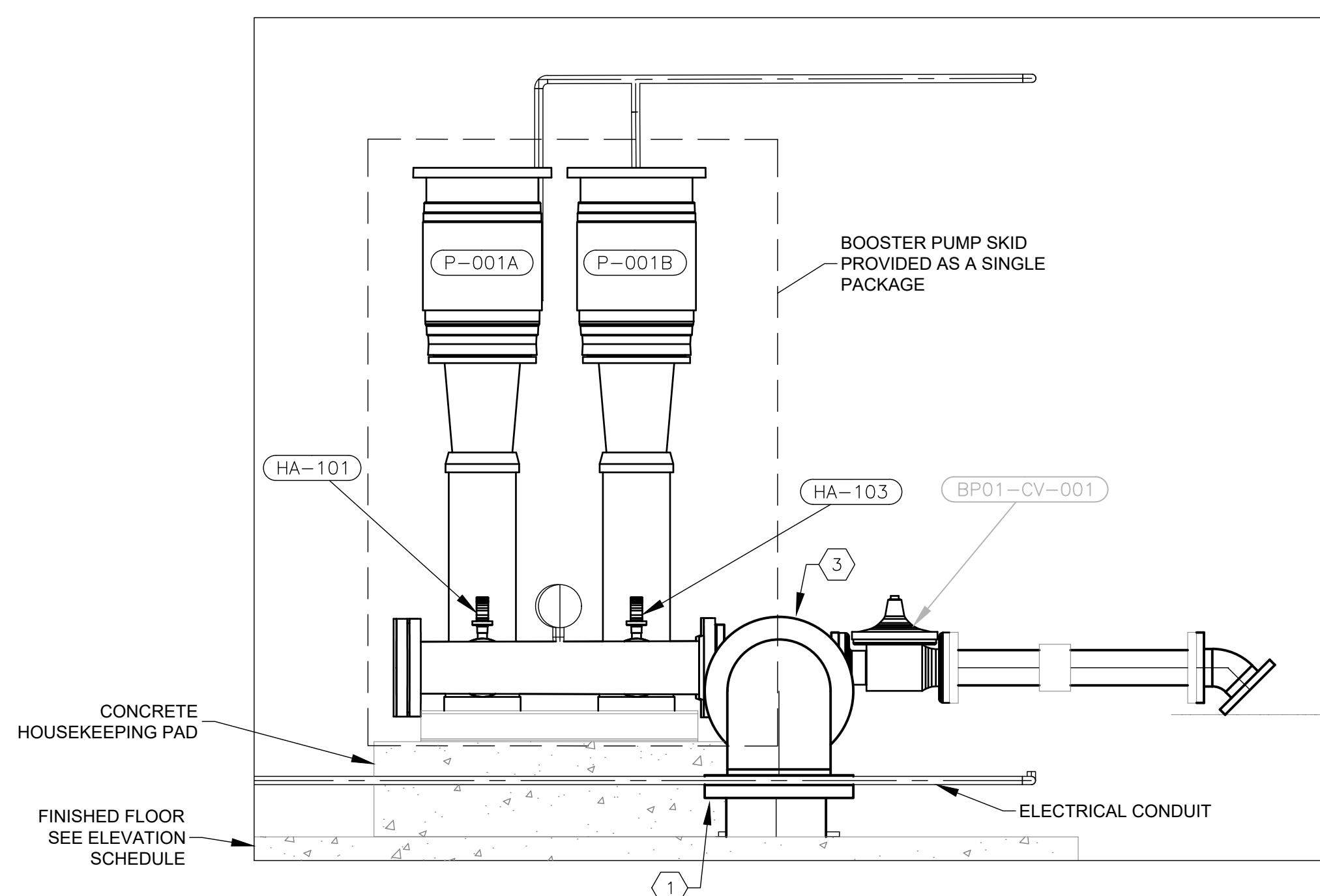
3/11/2026 M:\MSD\20-600-894-032\_Disciplines\Sheets - utilities\PHASE III\04\_MECH\56214\_D-301.dwg



**B2** BOOSTER STATION 1 - ISOMETRIC VIEW  
3/4" = 1'-0"



**F7** PIPING SECTION - FRONT VIEW  
3/4" = 1'-0"



**B8** PUMP SECTION - SIDE VIEW  
3/4" = 1'-0"

**FITTING SCHEDULE**

ITEM NO.	DESCRIPTION	QTY
1	12" DI FLANGE, 150-LB	1
2	8" DI 90-DEG BEND FLxFL	1
3	12" DI 90-DEG BEND FLxFL	1
4	6" DI 90-DEG BEND FLxFL	2
5	6"x8" DI ECC. RED. FLxFL	1
6	6"x4" DI TEE FLxFL	1
7	3" STL. ADJUSTABLE STANCTION	2
8	12"x6" DI ECC. RED. FLxFL	1
9	8" DI FLANGE, 250-LB	1
10	4" DI PIPE SPOOL	-
11	4" DI 45-DEG BEND FLxFL W/ 1/4"x1/4" BIRD SCREEN	1
12	4" DI FLANGE, 250-LB	1
13	6" DI PIPE SPOOL	1

NOTICE OF EXTENDED PAYMENT PROVISION:  
THIS CONTRACT ALLOWS THE OWNER TO MAKE PAYMENT WITHIN 45 DAYS AFTER SUBMISSION OF AN UNDISPUTED REQUEST FOR PAYMENT. (SECTION 57-28-5 B (2) NMSA 1978).

**WILSON & COMPANY**  
2600 THE AMERICAN RD. SE SUITE 100  
RIO RANCHO, NM 87124  
PHONE: 505-898-8021  
FAX: 505-898-8501  
www.wilsonco.com

CONSULTANTS



PROJECT NAME  
**LAC JEMEZ MOUNTAIN REGIONAL FIRE PROTECTION SYSTEM PHASE 3**

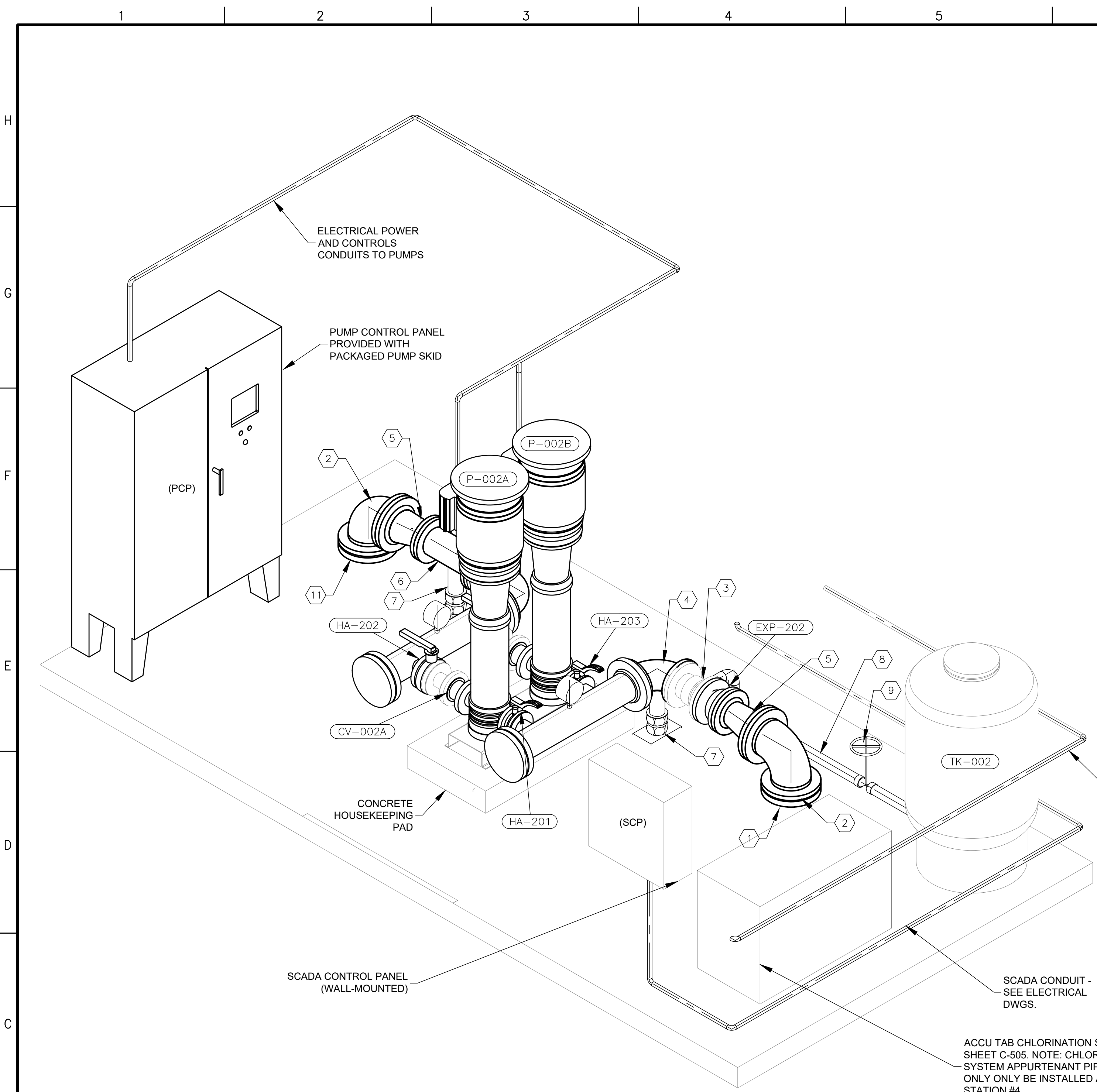
REV.	DATE	DESCRIPTION	BY

PROJECT NO: 22-600-894-03  
DESIGNED BY: RMG  
DRAWN BY: STAFF  
CHECKED BY: RMG  
DATE: MARCH 2026

SHEET TITLE  
**BOOSTER STATION 1 ISOMETRIC VIEW**

SHEET NO:  
**D-201**

M:\MSD\20-600-894-03\2\_Disciplines\SHEETS\8\_sheets - utilities\PHASE III\04\_MECH\56214\_D-302.dwg  
3/11/2026



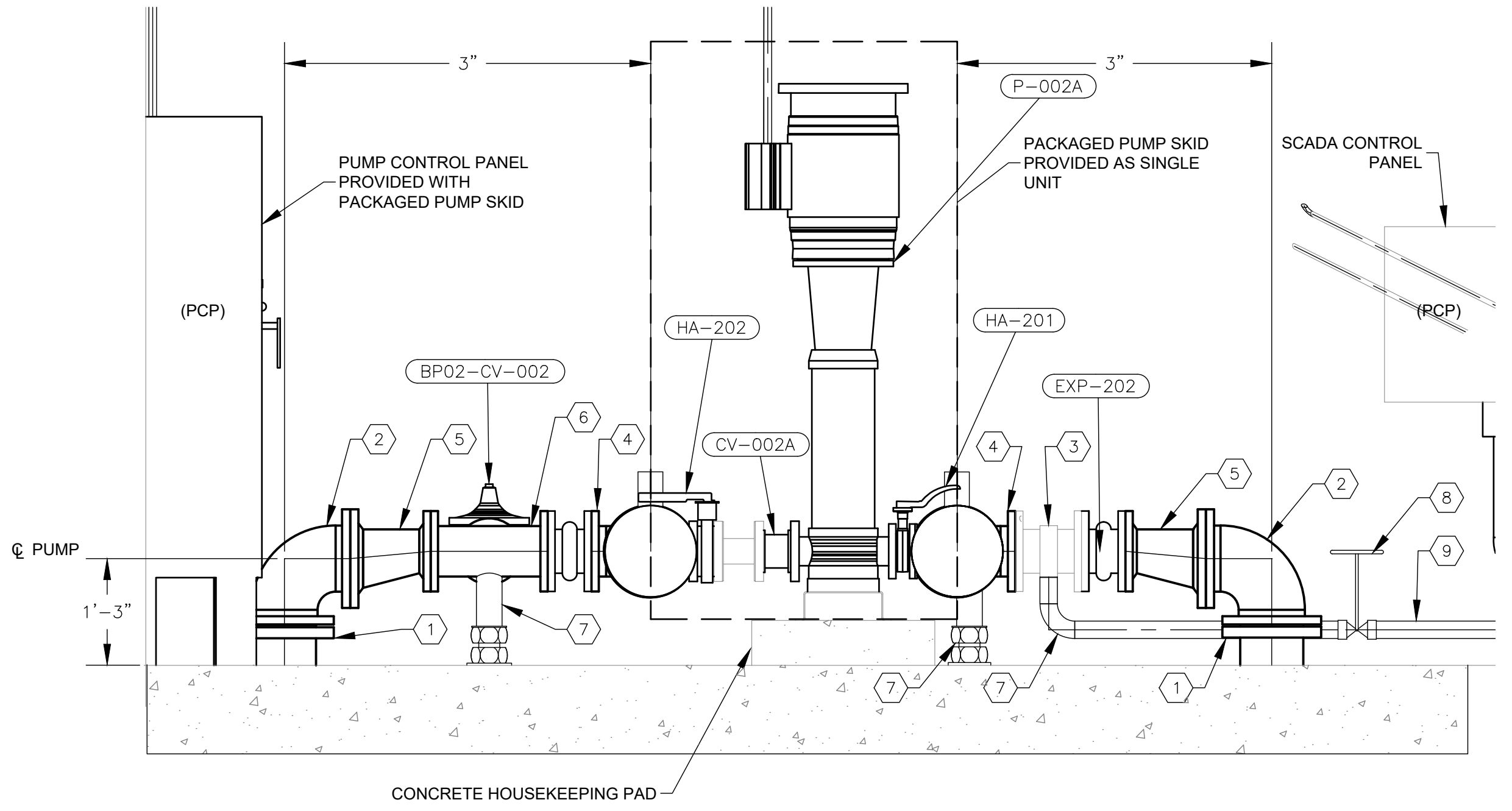
**B2** BOOSTER STATION 2, 3 AND 4 - ISOMETRIC VIEW  
3/4" = 1'-0"

ACCU TAB CHLORINATION SYSTEM SEE SHEET C-505. NOTE: CHLORINATION SYSTEM APPURTENANT PIPING SHALL ONLY BE INSTALLED AT BOOSTER STATION #4

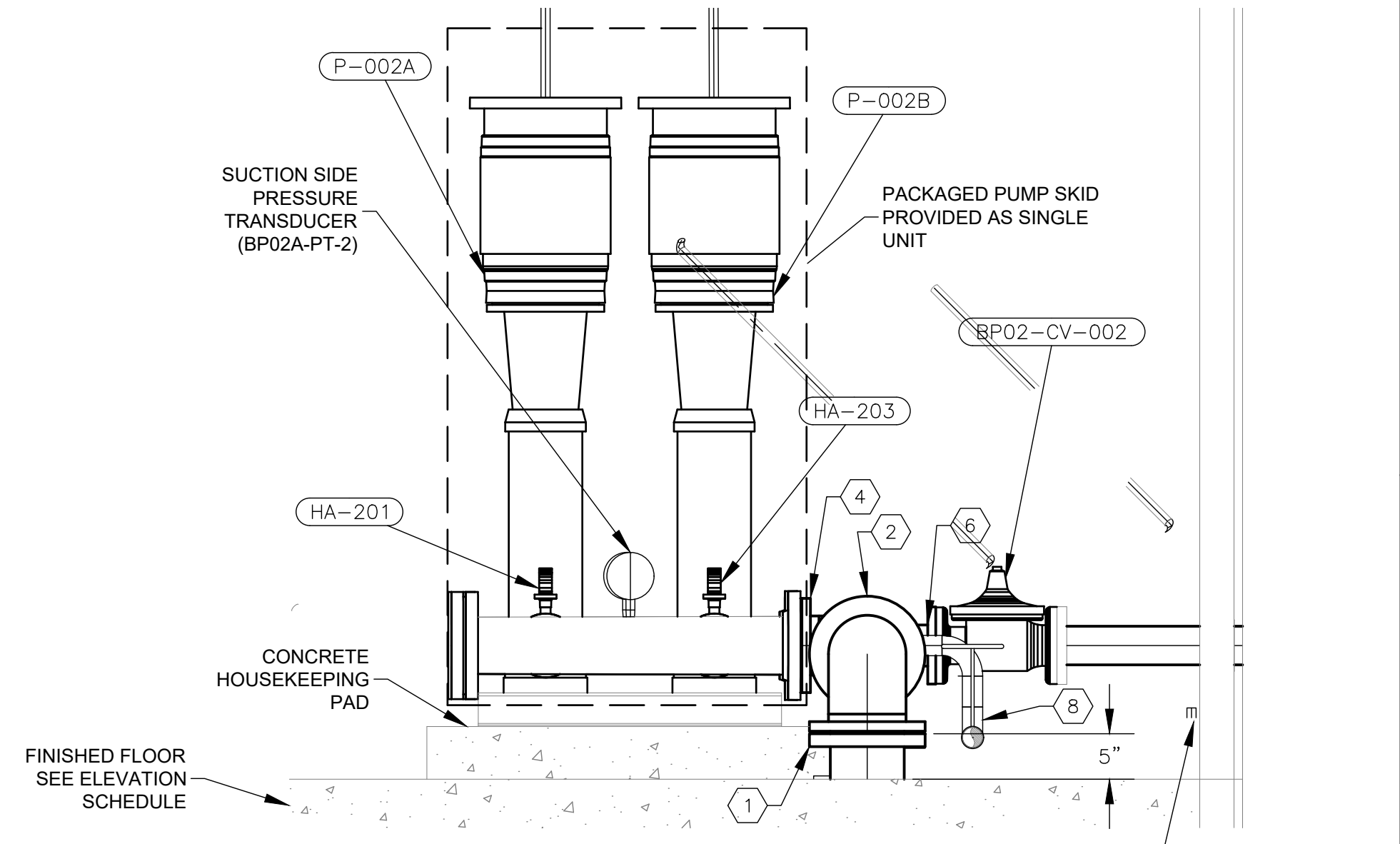
**FITTING SCHEDULE**

ITEM NO.	DESCRIPTION	QTY
1	8" FLANGE, 150-LB	1
2	8" 90-DEG BEND FLxFL	2
3	6" SPOOL W/ 2" TAPPING SADDLE	1
4	6" 90-DEG BEND FLxFL	2
5	6"x8" ECC. RED. FLxFL	2
6	6"x4" TEE FLxFL	1
7	3" ADJUSTABLE STANCTION	2
8	2" GALV. STL PIPE, NPT	-
9	2" BRASS GAVE VALVE W/ DISSIMILAR METAL ISOLATOR	1
10	2" GALV. STL 90-DEG ELBOW, NPT	1
11	8" FLANGE, 250-LB	1

SEE EQUIPMENT SCHEDULE ON SHEET D-005 FOR TAG IDENTIFIED EQUIPMENT SHOWN ON THIS SHEET.



**F7** PIPING SECTION - FRONT VIEW  
3/4" = 1'-0"



**B8** PUMP SECTION - SIDE VIEW  
1" = 1'-0"

**WILSON & COMPANY**  
2600 THE AMERICAN RD. SE SUITE 100  
RIO RANCHO, NM 87124  
PHONE: 505-898-8021  
FAX: 505-898-8501  
www.wilsonco.com

CONSULTANTS  
**ROSS W. GABALLON**  
NEW MEXICO  
PROFESSIONAL ENGINEER  
3/11/26  
SEAL

PROJECT NAME  
**LAC JEMEZ MOUNTAIN  
REGIONAL FIRE  
PROTECTION SYSTEM  
PHASE 3**

REV.	DATE	DESCRIPTION	BY

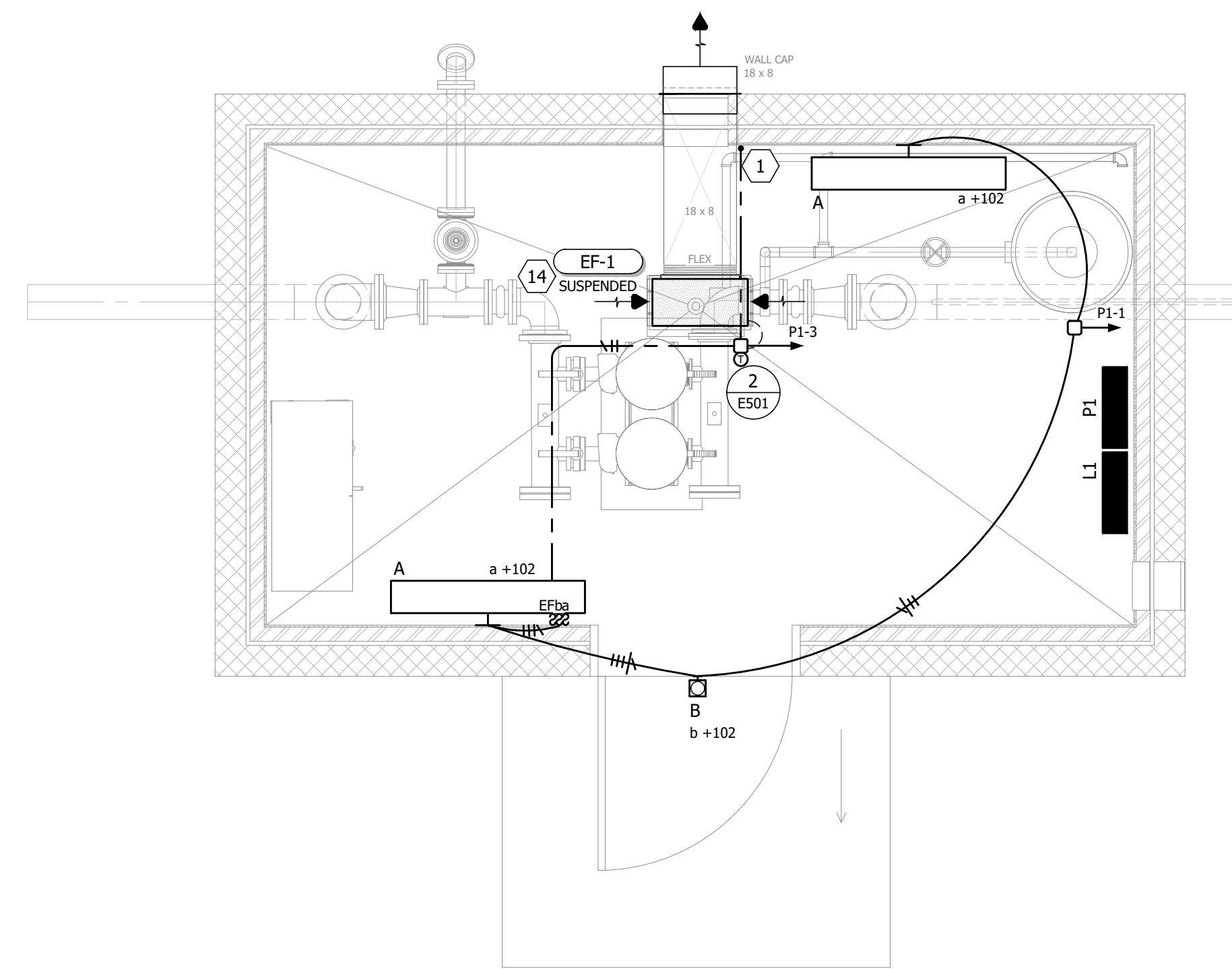
PROJECT NO: 22-600-894-03  
DESIGNED BY: RMG  
DRAWN BY: STAFF  
CHECKED BY: RMG  
DATE: MARCH 2026

SHEET TITLE  
**BOOSTER  
STATION 2, 3, AND  
4 ISOMETRIC**

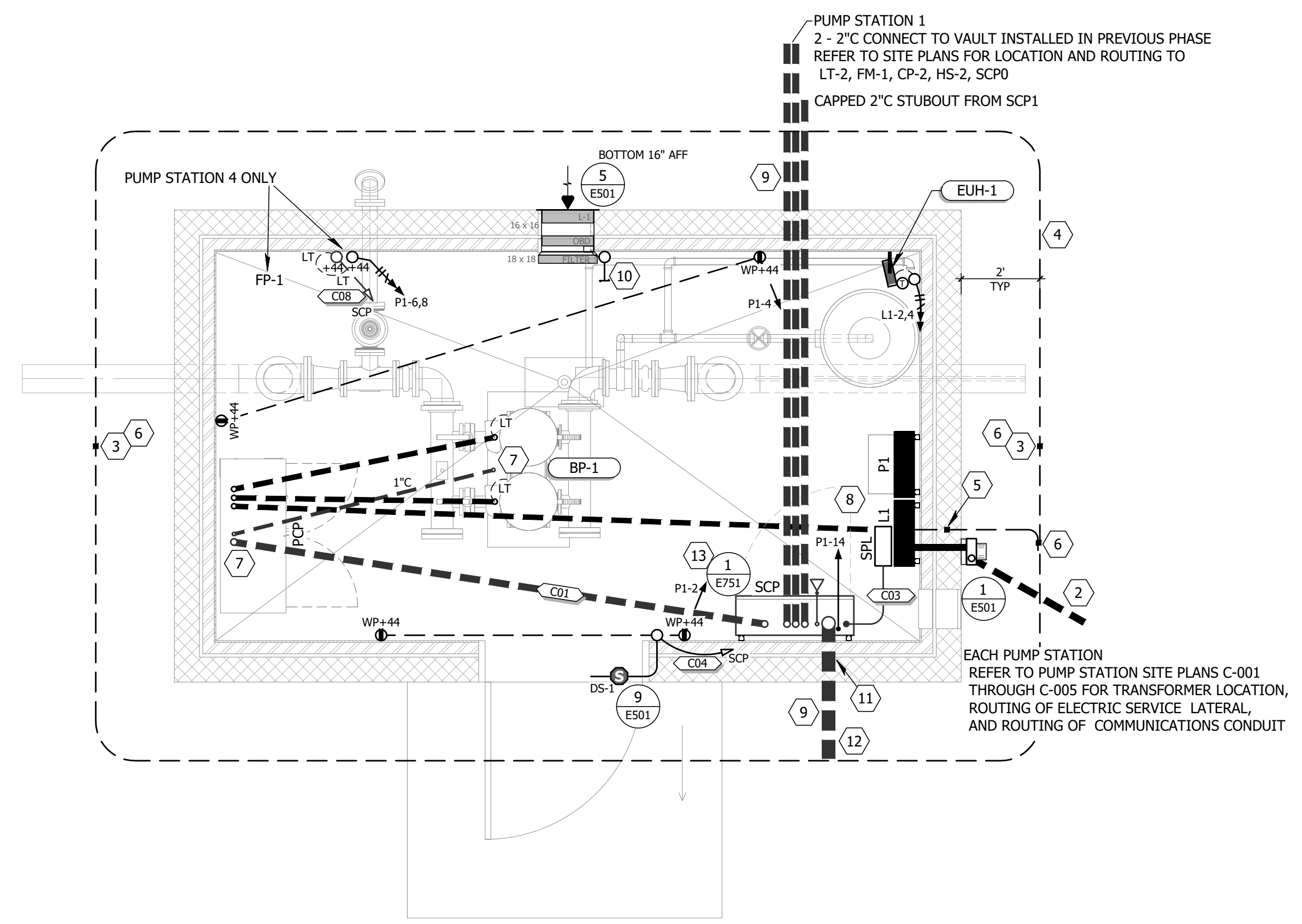
SHEET NO:  
**D-202**

NOTICE OF EXTENDED PAYMENT PROVISION:  
THIS CONTRACT ALLOWS THE OWNER TO  
MAKE PAYMENT WITHIN 45 DAYS AFTER  
SUBMISSION OF AN UNDISPUTED REQUEST  
FOR PAYMENT. (SECTION 57-28-5 B (2)  
NMSA 1978).





**1 LIGHTING PLAN**  
SCALE: 3/8" = 1'-0"



**2 POWER AND COMM PLAN**  
SCALE: 3/8" = 1'-0"

**GENERAL SHEET NOTES**

- THIS DRAWING IS INCOMPLETE AND NOT TO BE USED FOR CONSTRUCTION UNLESS IT IS SEALED, SIGNED, AND DATED
- THIS PLOT MAY NOT BE FULL SIZE - ADJUST SCALE ACCORDINGLY
- REFER TO GENERAL NOTES ON DRAWING E001
- A REFER TO REFLECTED CEILING PLAN DRAWINGS FOR LOCATIONS OF CEILING MOUNTED LUMINAIRES AND DEVICES
- B SHADED LUMINAIRE SYMBOLS INDICATE LUMINAIRES THAT SHALL HAVE A SINGLE-LAMP BALLAST OR DRIVER, A SEPARATE EMERGENCY LAMP, OR THE ONLY LAMP OR DRIVER CONNECTED TO THE UNSWITCHED CIRCUIT FOR NIGHT LIGHT OR EMERGENCY LTG
- C ALL BRANCH CIRCUITS SHALL BE MINIMUM #12 CONDUCTORS AND 3/4" C UNLESS OTHERWISE NOTED
- D BRANCH CIRCUIT CONDUCTORS WITH A CIRCUIT LENGTH FROM THE OVERCURRENT PROTECTION DEVICE GREATER THAN 100-FT SHALL BE SIZED NOT TO EXCEED 2.0% VOLTAGE DROP TO THE LOAD CENTER
- E ALL CIRCUITS SHALL HAVE DEDICATED (UNSHARED) NEUTRAL CONDUCTORS UNLESS MULTI-POLE CIRCUIT BREAKERS ARE SHOWN FOR THE CIRCUITS IN THE PANEL BOARD SCHEDULES - PROVIDE HANDLE TIES FOR 1-POLE CIRCUIT BREAKERS ON CIRCUITS WITH SHARED NEUTRALS
- F PANEL BOARDS, CABINETS, AND ELECTRICAL EQUIPMENT ARE SHOWN ON THE DRAWINGS WITH THE IDENTIFYING TEXT ON THE FRONT SIDE - THE EQUIPMENT FRONT IS TOWARD THE TEXT
- G REFER TO MECHANICAL DRAWINGS AND SPECIFICATIONS AND BUILDING AUTOMATION SYSTEM (BAS) SHOP DRAWINGS FOR CONTROL DIAGRAMS, SEQUENCE OF OPERATION DESCRIPTIONS, AND BUILDING AUTOMATION SYSTEM POWER REQUIREMENTS - REFER TO SPEC 26 0050 Para 3.6 FOR BRANCH CIRCUITS AND OTHER POWER WIRING REQUIREMENTS NOT SHOWN ON THESE DRAWINGS
- H ALL PANEL BOARD SIGNAGE, NAMEPLATES, CIRCUIT NUMBERS, AND DIRECTORIES IN FINISHED AREAS SHALL BE LOCATED BEHIND THE TRIM DOOR WHEN CLOSED
- I ALL CIRCUIT NUMBER LABELS AT OUTLETS, RECEPTACLES, AND SWITCHES IN FINISHED AREAS SHALL BE LOCATED ON THE CONDUCTORS INCLUDING GROUNDED CONDUCTORS OR BEHIND THE DEVICE PLATE ALONG THE FRONT SIDE OR BOTTOM EDGE OF THE OUTLET BOX OR DEVICE RING - NOT ON THE DEVICE PLATE OR THE DEVICE
- J ALL RACEWAY FOR TELEPHONE AND COMPUTER NETWORKS SHALL BE 3/4" MIN
- K NEW COMMUNICATION AND SECURITY OUTLETS SHALL BE 4"x4"x2+1/8" NOMINAL BOXES w/ 1-GANG DEVICE RINGS (VERTICAL) AND 3/4" C STUB-OUT w/ BUSHING ABOVE ACCESSIBLE CLG UNLESS OTHERWISE NOTED
- L MOUNTING HEIGHT FOR OUTLETS IS TO THE CENTER OF BOX - OUTLETS ARE TO BE +18 UNLESS NOTED OTHERWISE

**SHEET KEYNOTES**

- 1 REFER TO POWER PLAN FOR CONTINUATION
- 2 PROVIDE SERVICE CONDUCTORS IN CONDUIT 36" BELOW FINISH GRADE W/ WARNING TAPE TO TRANSFORMER SECONDARY
- 3 DRIVEN GND ROD W/ TOP 12" BELOW FINISH GRADE
- 4 PROVIDE #4/0 AWG STRANDED BARE CU CONDUCTOR 12" BELOW FINISH GRADE
- 5 BOND GND TO FOUNDATION FOOTING STEEL
- 6 BOND GND ELECTRODE CONDUCTOR TO LOOP CONDUCTOR
- 7 COORDINATE STUB-UP LOCATION W/ THE EQUIPMENT INSTALLER
- 8 MAINTAIN CODE REQUIRED WORKING AND CLEARANCE SPACE ABOVE AND IN FRONT OF ELEC EQP - NO PIPE OR DUCT PERMITTED ABOVE ELEC EQP
- 9 DEPTH OF ALL CONDUIT TO BE BELOW FOUNDATION FOOTING
- 10 REFER TO LTG PLAN FOR CONTINUATION
- 11 PROVIDE 4' RADIUS ELBOWS FOR FIBER-OPTIC BUNDLE
- 12 PROVIDE 4" C PVC 36" MIN BELOW FINISH GRADE
- 13 SCADA CONTROL PANEL FURNISHED BY CONTROLS INTEGRATOR
- 14 LOCATE TOP OF FAN CLOSE TO BOTTOM OF ROOF TRUSSES



NOTICE OF EXTENDED PAYMENT PROVISION:  
THIS CONSTRUCTION CONTRACT SPECIFICALLY PROVIDES FOR A PAYMENT LATER THAN 21 DAYS AFTER SUBMISSION OF AN UNDISPUTED REQUEST FOR PAYMENT. THIS CONTRACT ALLOWS THE OWNER TO MAKE PAYMENT WITHIN 45 DAYS AFTER SUBMISSION OF AN UNDISPUTED REQUEST FOR PAYMENT.

**WILSON & COMPANY**  
2600 THE AMERICAN RD. SE SUITE 100  
RIO RANCHO, NM 87124  
PHONE: 505-898-6021  
FAX: 505-898-6501  
www.wilsonco.com

**AA**  
CONSULTANTS  
ELECTRICAL ENGINEERING  
400 HENRIETTA ST. SUITE C  
ALBUQUERQUE, NM 87102  
202.333.3310 ALBUQUERQUE, NM  
Copyright © by AAEP  
3/11/2026

3/11/2026  
PAUL B. L. WETTER  
NEW MEXICO  
9726  
REGISTERED PROFESSIONAL ENGINEER

LAC JEMEZ MOUNTAIN  
REGIONAL FIRE  
PROTECTION SYSTEM  
PHASE 3

REV.	DATE	DESCRIPTION	BY

PROJECT NO: 20-600-894-03  
DESIGNED BY: DLW  
DRAWN BY: DLW  
CHECKED BY: DLW  
DATE: 3/11/2026

SHEET TITLE  
**ELECTRICAL PLANS  
TYP PUMP STATION**

SHEET NO:  
**E101**

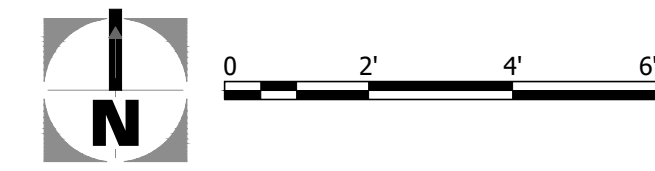
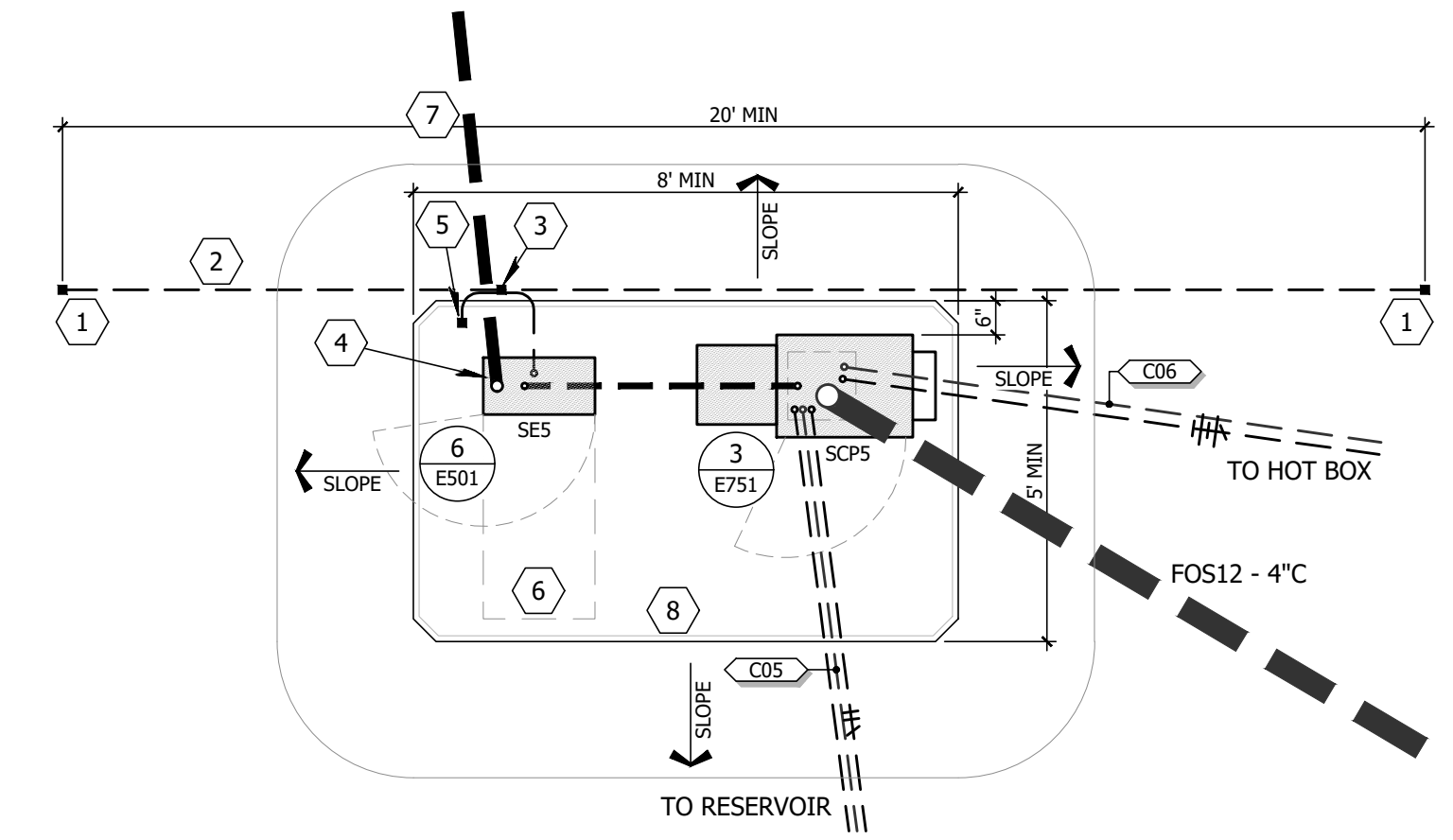
### GENERAL SHEET NOTES

- THIS DRAWING IS INCOMPLETE AND NOT TO BE USED FOR CONSTRUCTION UNLESS IT IS SEALED, SIGNED, AND DATED
- THIS PLOT MAY NOT BE FULL SIZE - ADJUST SCALE ACCORDINGLY
- REFER TO GENERAL NOTES ON DRAWING E001
- A REFER TO REFLECTED CEILING PLAN DRAWINGS FOR LOCATIONS OF CEILING MOUNTED LUMINAIRES AND DEVICES
  - B SHADED LUMINAIRE SYMBOLS INDICATE LUMINAIRES THAT SHALL HAVE A SINGLE-LAMP BALLAST OR DRIVER, A SEPARATE EMERGENCY LAMP, OR THE ONLY LAMP OR DRIVER CONNECTED TO THE UNSWITCHED CIRCUIT FOR NIGHT LIGHT OR EMERGENCY LTG
  - C ALL BRANCH CIRCUITS SHALL BE MINIMUM #12 CONDUCTORS AND 3/4" C UNLESS OTHERWISE NOTED
  - D BRANCH CIRCUIT CONDUCTORS WITH A CIRCUIT LENGTH FROM THE OVERCURRENT PROTECTION DEVICE GREATER THAN 100-FT SHALL BE SIZED NOT TO EXCEED 2.0% VOLTAGE DROP TO THE LOAD CENTER
  - E ALL CIRCUITS SHALL HAVE DEDICATED (UNSHARED) NEUTRAL CONDUCTORS UNLESS MULTI-POLE CIRCUIT BREAKERS ARE SHOWN FOR THE CIRCUITS IN THE PANEL BOARD SCHEDULES - PROVIDE HANDLE TIES FOR 1-POLE CIRCUIT BREAKERS ON CIRCUITS WITH SHARED NEUTRALS
  - F PANEL BOARDS, CABINETS, AND ELECTRICAL EQUIPMENT ARE SHOWN ON THE DRAWINGS WITH THE IDENTIFYING TEXT ON THE FRONT SIDE - THE EQUIPMENT FRONT IS TOWARD THE TEXT
  - G REFER TO MECHANICAL DRAWINGS AND SPECIFICATIONS AND BUILDING AUTOMATION SYSTEM (BAS) SHOP DRAWINGS FOR CONTROL DIAGRAMS, SEQUENCE OF OPERATION DESCRIPTIONS, AND BUILDING AUTOMATION SYSTEM POWER REQUIREMENTS - REFER TO SPEC 26 0050 Para 3.6 FOR BRANCH CIRCUITS AND OTHER POWER WIRING REQUIREMENTS NOT SHOWN ON THESE DRAWINGS
  - H ALL PANEL BOARD SIGNAGE, NAMEPLATES, CIRCUIT NUMBERS, AND DIRECTORIES IN FINISHED AREAS SHALL BE LOCATED BEHIND THE TRIM DOOR WHEN CLOSED
  - I ALL CIRCUIT NUMBER LABELS AT OUTLETS, RECEPTACLES, AND SWITCHES IN FINISHED AREAS SHALL BE LOCATED ON THE CONDUCTORS INCLUDING GROUNDED CONDUCTORS OR BEHIND THE DEVICE PLATE ALONG THE FRONT SIDE OR BOTTOM EDGE OF THE OUTLET BOX OR DEVICE RING - NOT ON THE DEVICE PLATE OR THE DEVICE
  - J ALL RACEWAY FOR TELEPHONE AND COMPUTER NETWORKS SHALL BE 3/4" MIN
  - K NEW COMMUNICATION AND SECURITY OUTLETS SHALL BE 4"x4"x2+1/8" NOMINAL BOXES w/ 1-GANG DEVICE RINGS (VERTICAL) AND 3/4" C STUB-OUT w/ BUSHING ABOVE ACCESSIBLE CLG UNLESS OTHERWISE NOTED
  - L MOUNTING HEIGHT FOR OUTLETS IS TO THE CENTER OF BOX - OUTLETS ARE TO BE +18 UNLESS NOTED OTHERWISE

### SHEET KEYNOTES

- 1 DRIVEN GND ROD W/ TOP 12" BELOW FINISH GRADE
- 2 PROVIDE #4/0 AWG STRANDED BARE CU CONDUCTOR 12" BELOW FINISH GRADE
- 3 BOND GND ELECTRODE CONDUCTOR TO LOOP CONDUCTOR
- 4 PROVIDE MAIN N-G BOND PER NEC
- 5 BOND TO REINFORCING STEEL IN SLAB
- 6 MAINTAIN CODE REQUIRED WORKING AND CLEARANCE SPACE ABOVE AND IN FRONT OF ELEC EQP - NO PIPE OR DUCT PERMITTED ABOVE ELEC EQP
- 7 PROVIDE SERVICE LATERAL 36" BELOW FINISH GRADE PER UTILITY COMPANY REQUIREMENTS
- 8 PROVIDE REINFORCED CONCRETE SLAB AT EQUIPMENT

**1 PARTIAL SITE PLAN**  
SCALE: 3/8" = 1'-0"



NOTICE OF EXTENDED PAYMENT PROVISION:  
THIS CONSTRUCTION CONTRACT SPECIFICALLY PROVIDES FOR A PAYMENT LATER THAN 21 DAYS AFTER SUBMISSION OF AN UNDISPUTED REQUEST FOR PAYMENT. THIS CONTRACT ALLOWS THE OWNER TO MAKE PAYMENT WITHIN 45 DAYS AFTER SUBMISSION OF AN UNDISPUTED REQUEST FOR PAYMENT.

**WILSON & COMPANY**  
2600 THE AMERICAN RD. SE SUITE 100  
RIO RANCHO, NM 87124  
PHONE: 505-898-6021  
FAX: 505-898-6501  
www.wilsonco.com

**AA**  
ELECTRICAL ENGINEERING  
7401 HUNTERS LN. SUITE C  
DORSET, NM 87801  
202-333-3310 AAANYL.COM  
Copyright © by AAEP  
3/11/2026

3/11/2026  
NEW MEXICO  
9726  
PAUL W. WETTERS, P.E.  
REGISTERED PROFESSIONAL ENGINEER

**LAC JEMEZ MOUNTAIN REGIONAL FIRE PROTECTION SYSTEM PHASE 3**

REV.	DATE	DESCRIPTION	BY

PROJECT NO: 20-600-894-03  
DESIGNED BY: DLW  
DRAWN BY: DLW  
CHECKED BY: DLW  
DATE: 3/11/2026

SHEET TITLE  
**ELECTRICAL SITE PLAN UPPER RESERVOIR**

SHEET NO:  
**E102**

# FEEDER SCHEDULE

FEEDER NAME	CONDUIT COUNT	PHASE		NEUTRAL		GROUND		P & N TYPE	INSULATION TYPE	CONDUIT		SCC AMPS	VDROP MAX %	ARC FLASH		NOTES
		QUAN	SIZE	QUAN	SIZE	QUAN	SIZE			SIZE IN	FILL %			ENERGY <sup>1</sup>	BOUNDARY <sup>2</sup>	
L1	1	3	3/0	1	3/0	1	6	CU	THHN/THWN-2	2	31.7	6,116	0.03	1.19	18.0	
XF1	1	2	4			1	8	CU	THHN/THWN-2	3/4	36.5	5,825	0.00	1.13	17.4	
P1	1	2	1	1	1	1	8	CU	THHN/THWN-2	1+1/4	32.2	1,813	0.02	0.36	8.6	
PCP	1	3	1/0			1	6	CU	THHN/THWN-2	1+1/2	28.4	5,943	0.02	1.15	17.6	
SE5	1	3	2	1	2			CU	THHN/THWN-2	1+1/4	30.0	13,673	0.01	26.81	119.8	
5XF1	1	2	10			1	12	CU	THHN/THWN-2	1	5.4	8,685	0.00	0.56	11.4	
SCP5	1	2	8	1	8	1	10	CU	THHN/THWN-2	1	14.4	689	0.02	0.10	4.0	

GENERAL NOTES  
 CONDUIT SIZES ARE MINIMUM GRC - CONDUCTOR SIZES ARE MINIMUM CU THHN/THWN-2 UNLESS INDICATED OTHERWISE  
 SPARE CONDUITS ARE NOT INCLUDED IN THIS SCHEDULE - REFER TO PLAN KEYED NOTES  
 FAULT CURRENT (SCC) AND ARC FLASH CALCULATED AT INDICATED EQUIPMENT LINE TERMINALS  
<sup>1</sup> cal/cm<sup>2</sup> at 18-INCHES  
<sup>2</sup> INCHES FROM ARC AT 1.2 cal/cm<sup>2</sup>

NUMBERED NOTES  
 1 EXISTING FEEDER  
 2 ISOLATED GROUND INCLUDED

# LOAD SUMMARY

FEEDER NAME	LOAD AMPS				FEEDER %		SF	W/SF	
	ALLOWED <sup>1</sup>	CONNECTED	DEMAND	SPARE <sup>1</sup>	DEMAND	LOAD <sup>1</sup>		CONNECT	DEMAND
L1	200	159	85	115	54	43	180	593.3	315.9
XF1	85	20	20	60	100	23			
P1	130	46	46	54	100	35			
PCP	150	130	65	85	50	43			
SE5	115	15	15	100	100	13	180	30.8	30.8
5XF1	30	15	15	5	100	49			
SCP5	50	34	34	6	100	68			

<sup>1</sup> ALLOWABLE LOAD AMPS, SPARE LOAD AMPS, AND FEEDER LOAD % ARE BASED ON 75°C CONDUCTOR RATING

# GENERAL SHEET NOTES

THIS DRAWING IS INCOMPLETE AND NOT TO BE USED FOR CONSTRUCTION UNLESS IT IS SEALED, SIGNED, AND DATED  
 THIS PLAN MAY NOT BE FULL SIZE - ADJUST SCALE ACCORDINGLY  
 REFER TO GENERAL NOTES ON DRAWING E001

## GROUNDING ELECTRODE CONDUCTOR SIZE

SERVICE PHASE	CONDUCTOR SIZE		MINIMUM GEC SIZE	EQUIVALENT AWG KCMIL
	CU	AL		
<=2	<=1/0		8	2 66.4
1 - 1/0	2/0 - 3/0		6	1/0 105.6
2/0 - 3/0	4/0 - 250		4	2/0 133.1
>3/0 - 350	>250 - 500		2	3/0 167.8
>350 - 600	>500 - 900		1/0	4/0 211.6
>600 - 1100	>900 - 1750		2/0	
>1100	>1750		3/0	

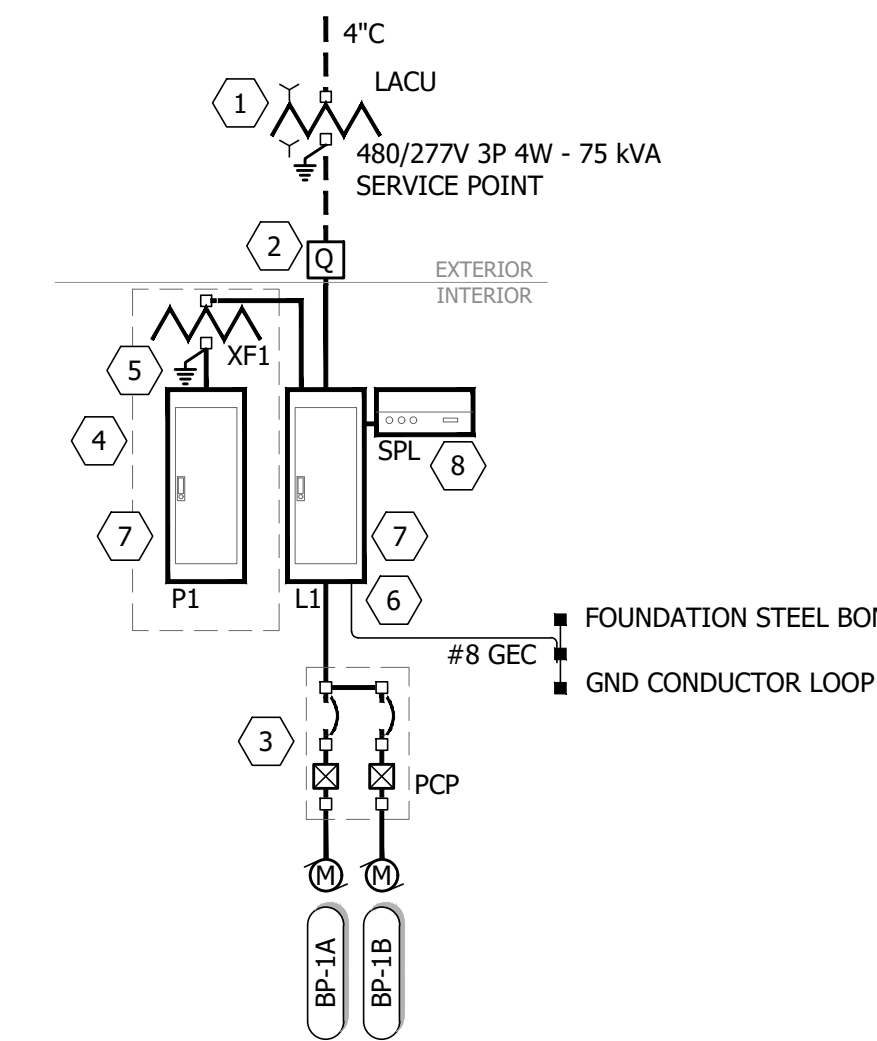
USE TOTAL CONDUCTOR AREA PER PHASE FOR PARALLEL CONDUCTORS - NEC TABLE 250.66

## BONDING LEGEND

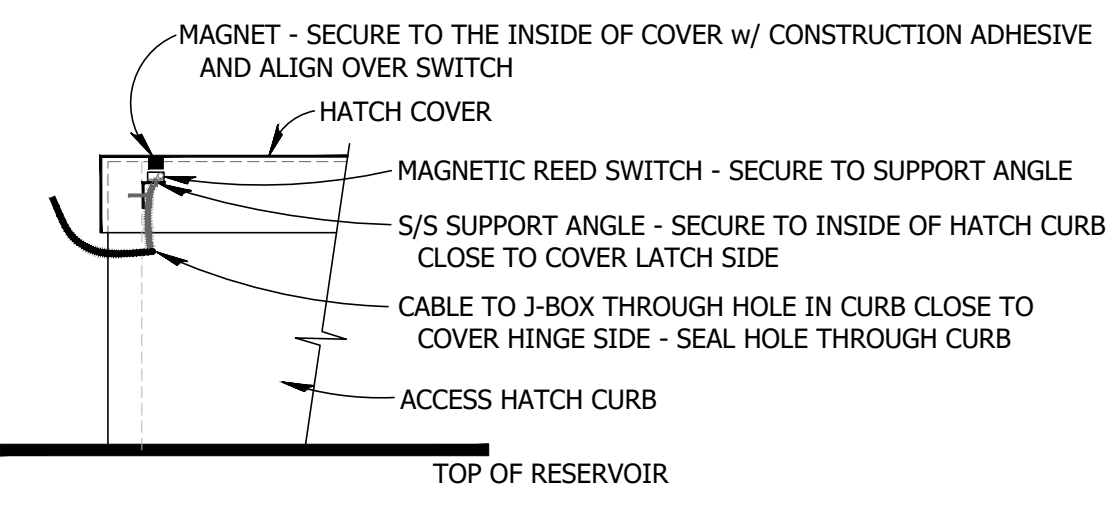
■ EXOTHERMIC WELD □ BOLTED BRONZE CLAMP

# SHEET KEY NOTES

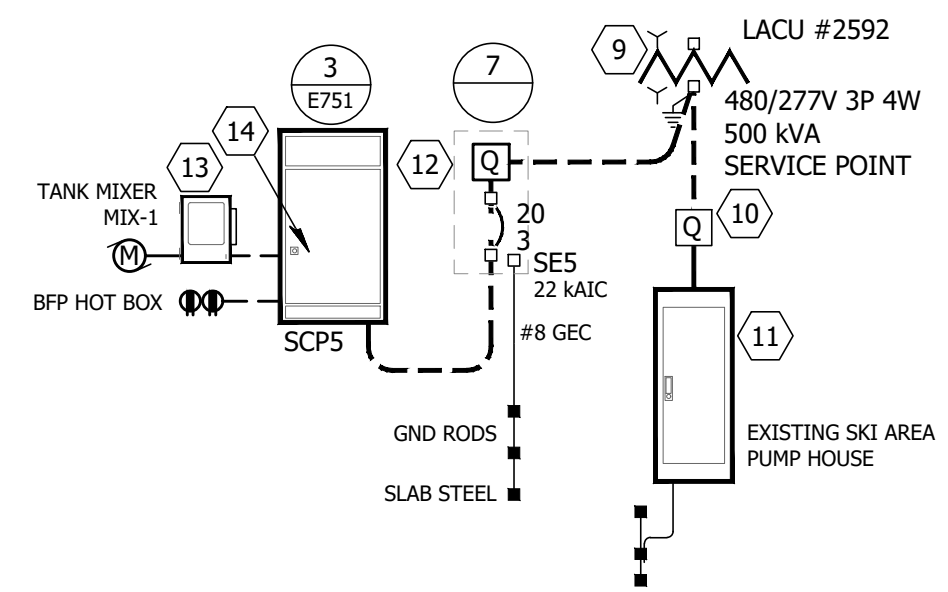
- NEW PAD-MOUNT UTILITY TRANSFORMER - REFER TO LACE SERVICE GUIDE AND CUSTOMER REPRESENTATIVE
- UTILITY METERING - PROVIDE METER BASE PER UTILITY REQUIREMENTS - 7 JAW w/ BYPASS 277/480V 200A RINGLESS
- PUMP PACKAGE CONTROL PANEL FURNISHED BY PUMP SUPPLIER
- PROVIDE MINI POWER-ZONE COMBINATION DRY-TYPE TRANSFORMER AND PANEL BOARD - 25 KVA 25 KAIC 1-PHASE 480V PRIMARY 100A2P MCB 120/240V SECONDARY 115°F RISE 24-SPACE PANEL BOARD 125A2P MCB NEMA 3R ENCLOSURE BOLT-ON BRANCH BREAKERS - SQ-D #7440-MPBZ25S40F25K OR EQUAL
- PROVIDE TRANSFORMER SECONDARY N-G BOND
- PROVIDE MAIN BONDING JUMPER BETWEEN NEUTRAL BUS AND EQUIPMENT GROUND BUS PER NEC 250-28 AT SERVICE EQUIPMENT
- REFER TO SCHEDULES FOR PANEL BOARD AND EQUIPMENT LOAD INFORMATION
- PROVIDE SURGE PROTECTION DEVICE 277/480V-3P-4W 200KA PER PHASE 320V MCOV SQ-D #SSP04XDSE20A OR EQUAL
- EXISTING PAD-MOUNTED UTILITY TRANSFORMER
- EXISTING UTILITY METER
- EXISTING SKI AREA PUMP HOUSE SERVICE EQUIPMENT AND DISTRIBUTION
- PROVIDE NEMA 3R ENCLOSED PEDESTAL METER SERVICE EQUIPMENT w/ PROVISIONS FOR THREE 3-POLE CB MIN - REFER TO LACE SERVICE GUIDE AND CUSTOMER REPRESENTATIVE
- PROVIDE 30A2P NON-FUSED NEMA 4X ENCLOSED MOTOR DISCONNECT NEAR RESERVOIR CONDUIT ENTRY - LEVITON #DS30-AX OR EQUAL
- LOCATE MIXER MOTOR CONTROLLER INSIDE CONTROL PANEL



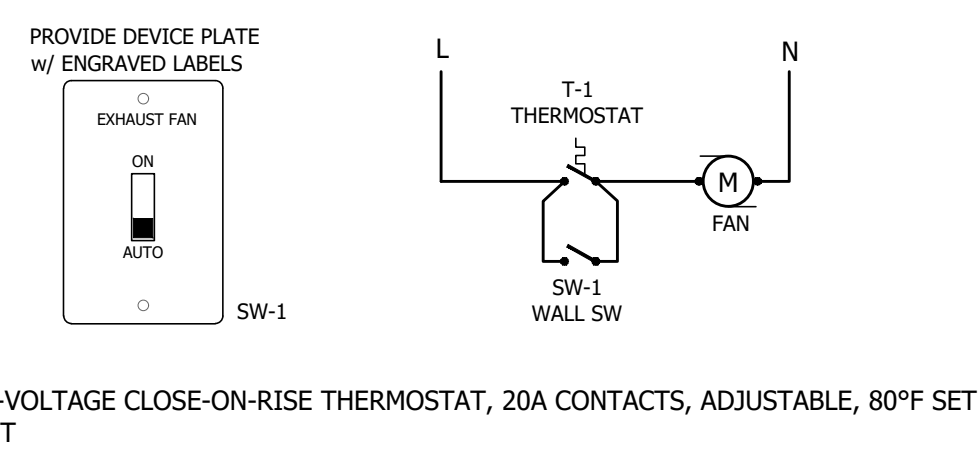
1 DIAGRAM  
 PUMP STATION SERVICE AND DISTRIBUTION  
 NO SCALE



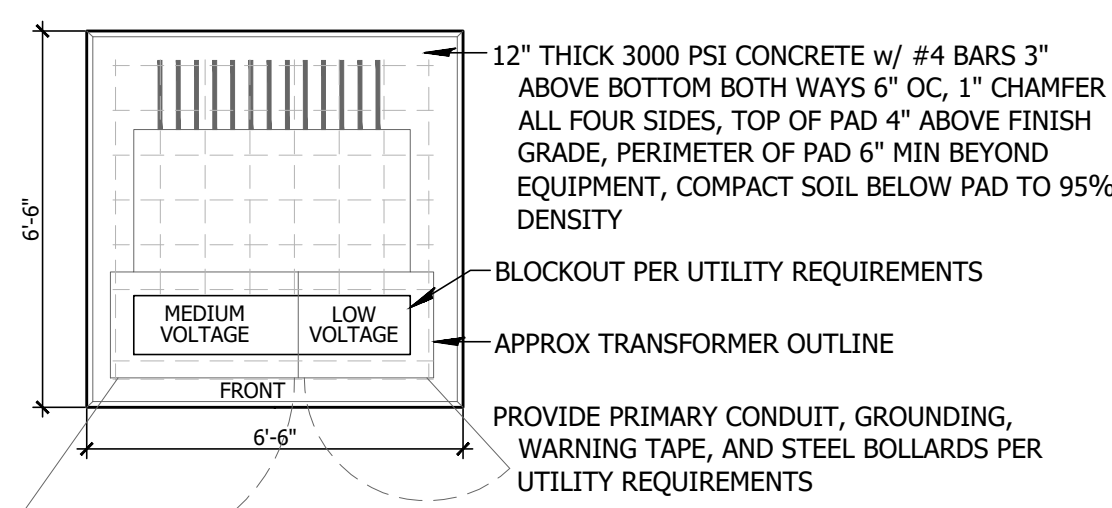
8 DETAIL  
 ACCESS HATCH SECURITY SWITCH  
 NO SCALE



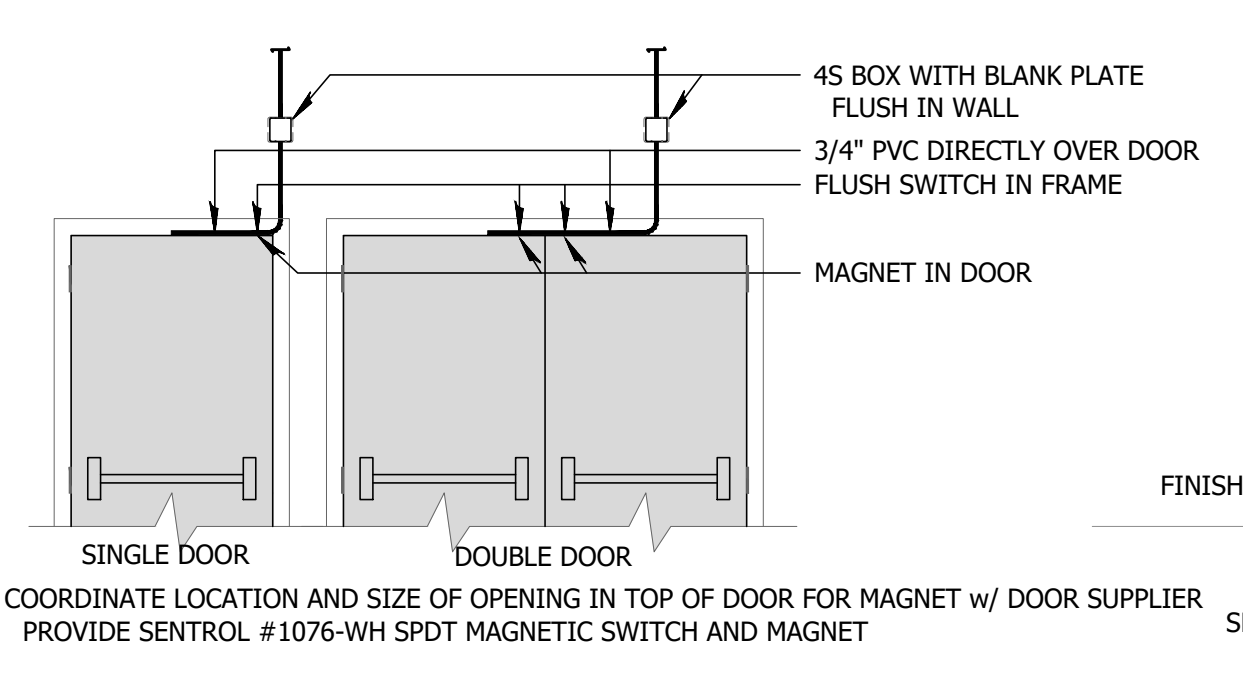
6 DIAGRAM  
 UPPER RESERVOIR DISTRIBUTION  
 NO SCALE



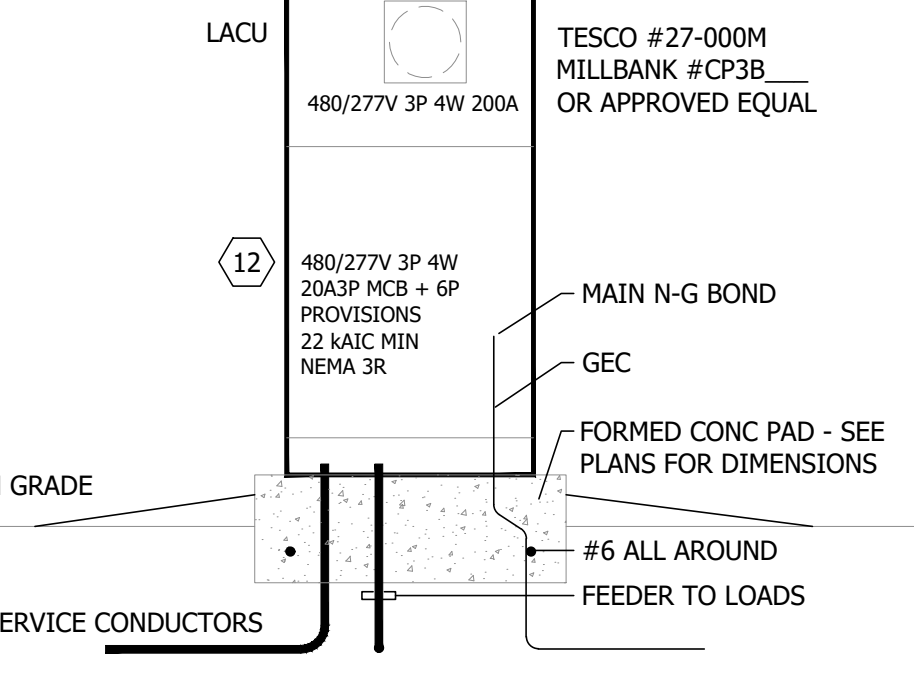
4 DIAGRAM  
 EXHAUST FAN CONTROL - AUTO/ON  
 NO SCALE



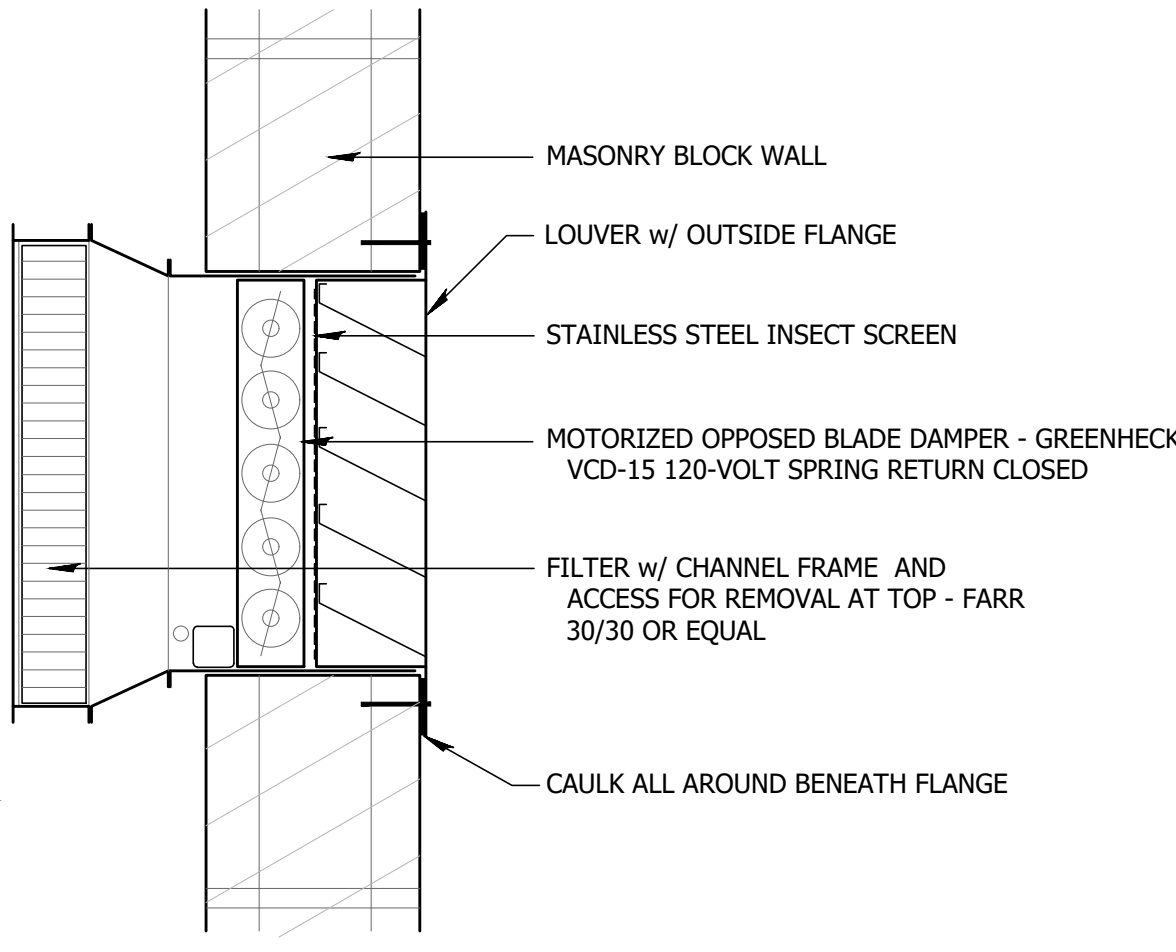
2 DETAIL  
 TRANSFORMER PAD  
 NO SCALE



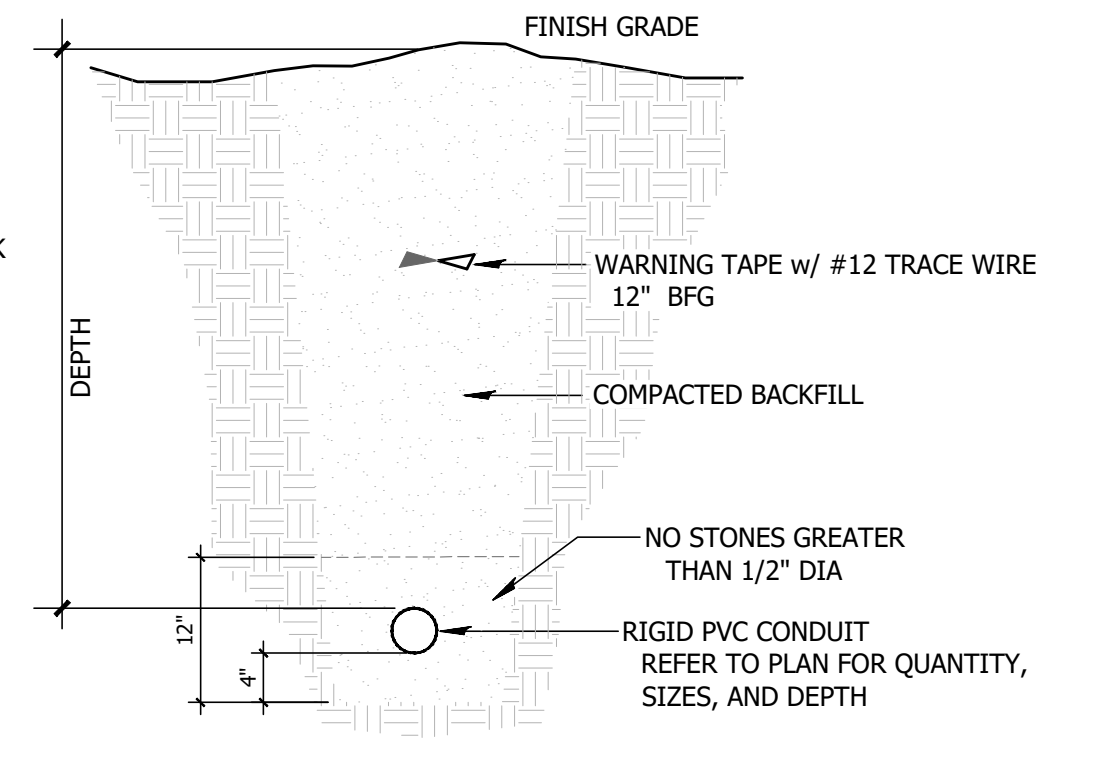
9 DETAIL  
 RECESSED DOOR SECURITY SWITCH  
 NO SCALE



7 DETAIL  
 PEDESTAL METER AND SERVICE DISCONNECT  
 NO SCALE



5 DETAIL  
 WALL LOUVER FOR VENTILATION  
 NO SCALE



3 SECTION  
 BURIED CONDUIT (NOT ENCASED)  
 NO SCALE

**WILSON & COMPANY**  
 2800 THE AMERICAN RD. SE SUITE 100  
 RIO RANCHO, NM 87124  
 PHONE: 505-898-6021  
 FAX: 505-898-6501  
 www.wilsonco.com

**AA**  
 CONSULTANTS  
 ELECTRICAL ENGINEERING  
 400 HENRIETTA ST. SUITE 200  
 ALBUQUERQUE, NM 87102  
 Copyright © by AAEP  
 3/11/2026

3/11/2026  
**FRANKS L. WETTER**  
 NEW MEXICO  
 9726  
 REGISTERED PROFESSIONAL ENGINEER

PROJECT NAME  
**LAC JEMEZ MOUNTAIN  
 REGIONAL FIRE  
 PROTECTION SYSTEM  
 PHASE 3**

REV.	DATE	DESCRIPTION	BY

PROJECT NO: 20-600-894-03  
 DESIGNED BY: DLW  
 DRAWN BY: DLW  
 CHECKED BY: DLW  
 DATE: 3/11/2026

SHEET TITLE  
**ELECTRICAL  
 DIAGRAMS  
 AND DETAILS**

SHEET NO:  
**E501**

NOTICE OF EXTENDED PAYMENT PROVISION:  
 THIS CONSTRUCTION CONTRACT SPECIFICALLY PROVIDES FOR A PAYMENT LATER THAN 21 DAYS AFTER SUBMISSION OF AN UNDISPUTED REQUEST FOR PAYMENT. THIS CONTRACT ALLOWS THE OWNER TO MAKE PAYMENT WITHIN 45 DAYS AFTER SUBMISSION OF AN UNDISPUTED REQUEST FOR PAYMENT.

# UNIT HEATER SCHEDULE

KEY	DESCRIPTION	MANUFACTURER/CATALOG NO.	KW	VOLT	PHASE	NOTES
EUH-1	WALL MOUNT, 18 GA PAINTED STEEL HOUSING, ADJUSTABLE DISCHARGE LOUVERS, PLATED WIRE INTAKE GUARD, DYNAMICALLY BALANCED FAN, INTEGRAL MAGNETIC CONTACTOR, INTEGRAL ADJUSTABLE THERMOSTAT, WALL MTD SUPPORT	CHROMALOX LUH-05-43-32-40 w/ WUH-01A	5.0	480	1	

# FAN SCHEDULE

KEY	SERVICE	MANUFACTURER CATALOG NO	TYPE	DRIVE	CFM <sup>1</sup>	SONES MAX	FILTER	WALL CAP	HP/WATTS	VOLT	PHASE	WT LB	DUCT	NOTES
EF-1	EXHAUST	GREENHECK SP-A700	CABINET	DIRECT	700	4.5	F-250	WC-18X8	350 W	120	1	34	18" X 8"	

GENERAL NOTES:  
FOR EACH UNIT PROVIDE PAINTED ALUMINUM GRILLE, WASHABLE ALUMINUM MESH GRILLE FILTER, METAL CAP W/ BACKDRAFT DAMPER AND INSECT SCREEN, SEALED METAL DUCT, VIBRATION ABSORBING SUPPORTS  
INSTALL PER MANUFACTURER'S INSTRUCTIONS  
<sup>1</sup>RATED CAPACITY AT 0.25" WC

NUMBERED NOTES:

# LOUVER SCHEDULE

KEY	SERVICE	MANUFACTURER CATALOG NO	FRAME	FINISH	W X H	SF	SP *WC	EXTENDED SILL	SCREEN	FILTER RACK	DAMPER
L-1	INTAKE	CARNES FLDC	FLANGED	CLEAR ANODIZED	16"X16"	0.8	0.08	NO	S/S INSECT	2"	NO

# LUMINAIRE SCHEDULE

KEY	DESCRIPTION	MANUFACTURER / CATALOG NO.	LUMENS	WATTS	FINISH	VOLTS	NOTES
A	4" NOMINAL ENCLOSED AND GASKETED WALL MOUNT, PAINTED STEEL HOUSING, 45° ANGLED 0.125" RIBBED FROSTED ACRYLIC LENS, ONE-PIECE DOOR w/ PIANO HINGE, IP65 WET LOCATION	COLUMBIA / LXEM4-35HL-RFA-EU-XE45MBSS	5,630	48			
		LITHONIA / FEM-L48-6000LM-LPAFL-MD-MVOLT-G210-35-80-FEMANGBKT					
B	CUT-OFF, WALL SURFACE MTD, DIE-CAST ALUMINUM HOUSING, TEMPERED IMPACT RESISTANT CLEAR GLASS LENS, POWDER-COAT FINISH, 4000°K, UL 1598 LISTED	HE WILLIAMS / ALR204T06TC81DSQQ45KQW	7,730	56	BLACK		
		BEACON / TRP2-160L-50-4K8-2-UNV-BLS					

GENERAL NOTES:  
LAMPS ARE LED UNLESS NOTED OTHERWISE - LAMP CODES ARE GENERAL ELECTRIC UNLESS NOTED OTHERWISE  
FINISH COLORS ARE WHITE UNLESS NOTED OTHERWISE - COLORS SHALL BE SELECTED FROM MANUFACTURER'S STANDARD DURING SUBMITTAL REVIEW UNLESS NOTED CUSTOM  
LUMINAIRES SHALL BE AS SPECIFIED OR APPROVED EQUAL PRIOR TO BID/ORDER  
DIMMING DRIVERS SHALL BE 0-10 Vdc 2-WIRE ELECTRONIC 100-1% DIM-TO-OFF UNLESS NOTED OTHERWISE  
COLOR TEMPERATURE SHALL BE 3500°K, CRI 85 MIN, >90% PF, <20% THD, INTEGRAL BALLAST/DRIVERS 120-277V, SINGLE CIRCUIT UNLESS NOTED OTHERWISE  
LUMENS LISTED ARE MINIMUM DELIVERED AND WATTS ARE MAXIMUM PER IESNA LM-79-08 BY INDEPENDENT TESTING LAB PHOTOMETRIC REPORT

NUMBERED NOTES:

# EQUIPMENT SCHEDULE

EQUIP KEY	DESCRIPTION	AREA	SOURCE	V	P	WIRE	MTR HP	MTR FLA	OTHER FLA	NOTE	TOTAL FLA	KVA	PF	KW	WIRE			CONDUIT SIZE	MAX PROTECTION		
															P	N	G		CB	FUSE	MCP
BP-1A,1B	BOOSTER PUMPS		PCP	480	3	3	50.00				65.0	54.0	0.87	47.0	4	--	6	1	150	150	150
EF-1	EXHAUST FAN		P1	120	1	2					3.2	0.4	0.91	0.3	12	12	12	3/4	20	20	20
EUH-1	ELEC UNIT HEATER		L1	480	1	2				10.4	10.4	5.0	1.00	5.0	12	--	12	3/4	15	15	--
FPV-1	CHLORINATOR	PS4	P1	240	1	2	7.50				40.0	9.6	0.7	6.7	8	--	8	3/4	70	60	40
MIX-1	TANK MIXER		SCP5	240	1	2	1.50				10.0	2.4	0.70	1.7	12	--	12	3/4	20	15	10

GENERAL NOTES  
CONDUIT SIZES ARE MINIMUM FOR EMT - CONDUCTOR SIZES ARE MINIMUM FOR CU  
MAX PROTECTION IS PER NEC - SEE PANEL BOARD SCHEDULES, DRAWINGS, AND PRODUCT SUBMITTALS FOR PROTECTION TO BE PROVIDED

NUMBERED NOTES  
1 SEE DRAWINGS FOR WIRE, CONDUIT, AND PROTECTION SIZES  
2 NON-CONTINUOUS LOAD  
3 ALUMINUM PHASE AND NEUTRAL CONDUCTORS  
4 HACR LOAD  
5 PROVIDE PARALLEL CONDUITS

# PANEL BOARD SCHEDULE

VOLTAGE (L-L): 480  
PHASE: 3  
WIRE: 4  
MOUNTING: SURFACE  
MANUFACTURER:  
OPTIONS: B  
TOP: MCB  
BOTTOM: FTL

PANEL BOARD NAME: **L1**  
BUS RATING, Amps: 200  
MAIN BREAKER RATING, Amps: 200  
FEEDER PROTECTION, Amps:  
GROUND BUS: ISOLATED FROM NEUTRAL  
MAIN BOND JUMPER: NO  
SHORT CCT RATING (SCCR), Amps: 22,000  
DEFAULT POWER FACTOR: 90%

LOAD		CB	CCT	Φ	CB	LOAD
TYPE	DESCRIPTION	SIZE	#	SIZE	NOTE	DESCRIPTION
SUB	TRANSFORMER PANEL P1	80 J	1	A 2	15 J	2.5 EUH-1 UNIT HEATER
SUB		2P J	3	B 4	2P J	2.5 MEC
			5	C 6		
			7	A 8		
			9	B 10		
			11	C 12		
			13	A 14		
			15	B 16		
			17	C 18		
			19	A 20	150 J	SUB
			21	B 22	----	PCP SUB
			23	C 24	3P J	SUB

LOAD SUMMARY		Notes		Options	
Phase	kW				
Phase A:	3	A - AFI arcing fault interrupter		A - NEMA 12/3R enclosure	
B:	3	C - Through lighting contactor		B - NEMA 12 enclosure	
C:		D - Dual (tandem) circuit breaker		C - Door-in-door front	
THIS SECTION:	5	G - GFI ground fault interrupter		D - Hinged front	
		K - Kirk key interlock		E - Top and bottom box extensions	
Phase A:	35	L - Handle LOCK-OFF/LOCK-ON		F - 400 Hz rating	
B:	31	N - New CB in existing space		G - Isolated ground bus	
C:	35	R - Replace existing CB with new CB		H - 100% rating	
SUB-FEED & FEED-THROUGH:	102	S - Switched neutral		J - NEMA 4X enclosure	
		T - 120V shunt trip		K - Internal SPD	
Phase A:	38	W - Switching duty rated SWD		L - User metering (mains)	
B:	34	AA - Only pump station #1		M - User metering (branch circuits)	
C:	35	AB - Only pump station #4		N - Stainless Steel enclosure & trim	
<b>BUS TOTAL:</b>	<b>107</b>	Feeder	Connected kW	Demand kW	Demand %
Demand Imbalance % A:	0.9%	Lighting	0	0	100
B:	-0.6%	Receptacles	0	0	100
C:	-0.3%	Other	106	56	53
Demand Imbalance %	0.9%	Total	107	57	53

# PANEL BOARD SCHEDULE

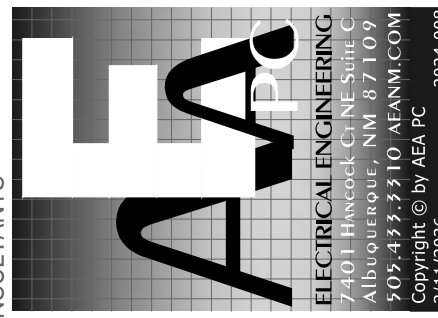
VOLTAGE (L-L): 240  
PHASE: 1  
WIRE: 3  
MOUNTING: SURFACE  
MANUFACTURER:  
OPTIONS:  
TOP: MCB  
BOTTOM:

PANEL BOARD NAME: **P1**  
BUS RATING, Amps: 125  
MAIN BREAKER RATING, Amps: 125  
FEEDER PROTECTION, Amps:  
GROUND BUS: ISOLATED FROM NEUTRAL  
MAIN BOND JUMPER: NO  
SHORT CCT RATING (SCCR): 10,000  
DEFAULT POWER FACTOR: 95%

LOAD		CB	CCT	Φ	CB	LOAD
TYPE	DESCRIPTION	SIZE	#	SIZE	NOTE	DESCRIPTION
LTG	INTERIOR & EXTERIOR	20	1	A 2	20	0.2 RCP 1 RCP
MEC	EXHAUST FAN EF-1	15	3	C 4	20	0.2 RCP 2 RCP
			5	A 6	70 AA	3.4 CHLORINATOR FP-1
			7	C 8	2P J	3.4 SHP
			9	A 10	20	
			11	C 12	20	
			13	A 14	20	0.3 SCP SCADA CONTROL PANEL
			15	C 16		SHP
			17	A 18		
			19	C 20		
			21	A 22		
			23	C 24		

LOAD SUMMARY		Notes		Options	
Phase	kW				
Phase A:	4	A - AFI arcing fault interrupter		A - NEMA 12/3R enclosure	
B:		C - Through lighting contactor		B - NEMA 12 enclosure	
C:		D - Dual (tandem) circuit breaker		C - Door-in-door front	
THIS SECTION:	8	G - GFI ground fault interrupter		D - Hinged front	
		K - Kirk key interlock		E - Top and bottom box extensions	
Phase A:		L - Handle LOCK-OFF/LOCK-ON		F - 400 Hz rating	
B:		N - New CB in existing space		G - Isolated ground bus	
C:		R - Replace existing CB with new CB		H - 100% rating	
SUB-FEED & FEED-THROUGH:		S - Switched neutral		J - NEMA 4X enclosure	
		T - 120V shunt trip		K - Internal SPD	
Phase A:	4	W - Switching duty rated SWD		L - User metering (mains)	
B:		X - Relocated existing CB		M - User metering (branch circuits)	
C:		AA - Only pump station #4		N - Stainless Steel enclosure & trim	
<b>BUS TOTAL:</b>	<b>8</b>	Feeder	Connected kW	Demand kW	Demand %
Demand Imbalance % A:	0.2%	Lighting	0	0	100
B:		Receptacles	0	0	100
C:	-0.2%	Other	7	7	100
Demand Imbalance %	0.2%	Total	8	8	100

**WILSON & COMPANY**  
2600 THE AMERICAN RD. SE SUITE 100  
RIO RANCHO, NM 87124  
PHONE: 505-898-6021  
FAX: 505-898-6501  
www.wilsoncc.com



LAC JEMEZ MOUNTAIN  
REGIONAL FIRE  
PROTECTION SYSTEM  
PHASE 3

PROJECT NO:	20-600-894-03
DESIGNED BY:	DLW
DRAWN BY:	DLW
CHECKED BY:	DLW
DATE:	3/11/2026

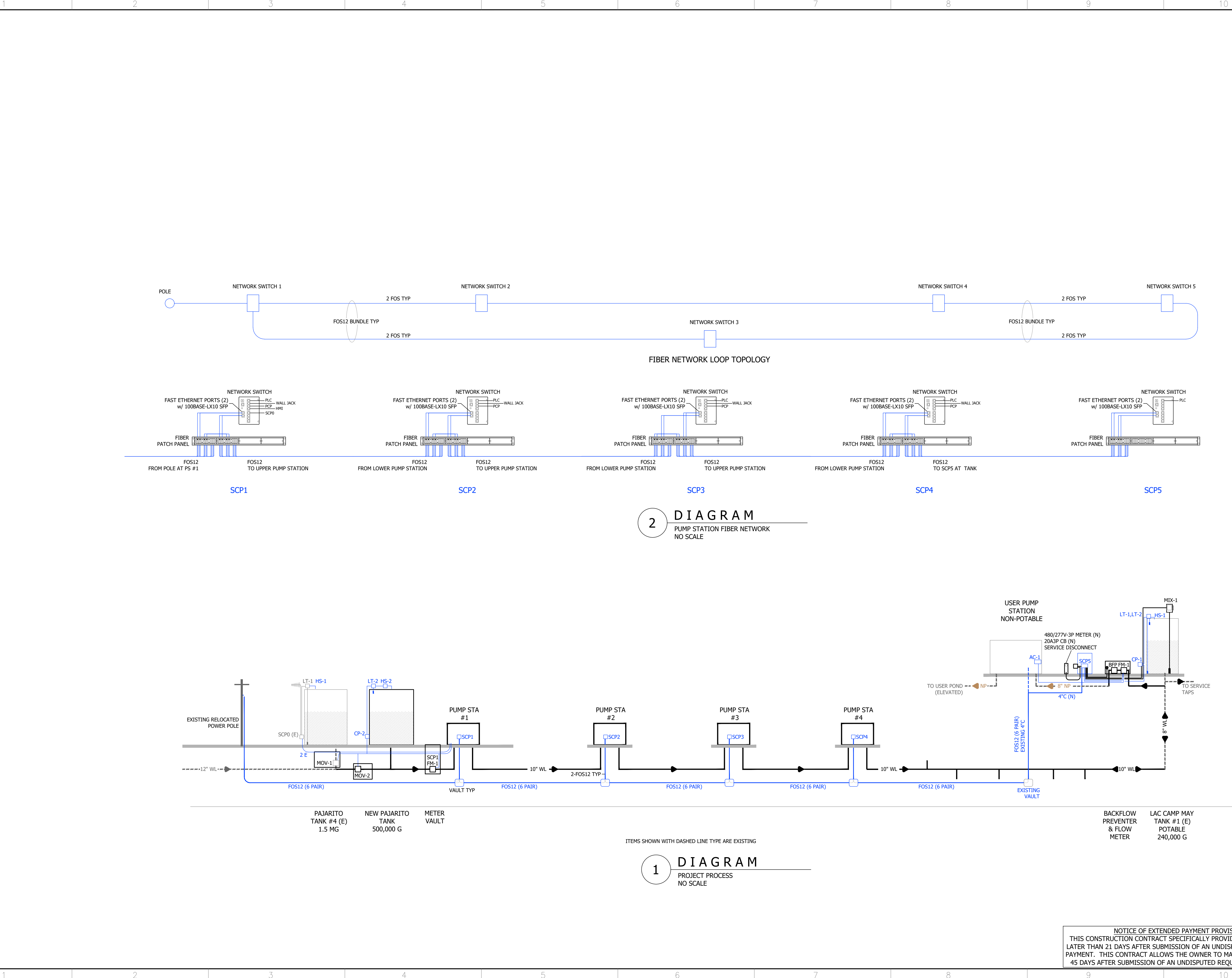
SHEET TITLE  
**ELECTRICAL SCHEDULES**

SHEET NO:  
**E601**

NOTICE OF EXTENDED PAYMENT PROVISION:  
THIS CONSTRUCTION CONTRACT SPECIFICALLY PROVIDES FOR A PAYMENT LATER THAN 21 DAYS AFTER SUBMISSION OF AN UNDISPUTED REQUEST FOR PAYMENT. THIS CONTRACT ALLOWS THE OWNER TO MAKE PAYMENT WITHIN 45 DAYS AFTER SUBMISSION OF AN UNDISPUTED REQUEST FOR PAYMENT.

0085A1C-1.DWG

H  
G  
F  
E  
D  
C  
B  
A



PAJARITO TANK #4 (E)  
1.5 MG

NEW PAJARITO TANK  
500,000 G

METER VAULT

BACKFLOW PREVENTER & FLOW METER

LAC CAMP MAY TANK #1 (E) POTABLE  
240,000 G

ITEMS SHOWN WITH DASHED LINE TYPE ARE EXISTING

**WILSON & COMPANY**  
2800 THE AMERICAN RD. SE SUITE 100  
RIO RANCHO, NM 87124  
PHONE: 505-898-8021  
FAX: 505-898-8501  
www.wilsoncc.com

**AEA**  
ELECTRICAL ENGINEERING  
7401 HUNTERS LN. SUITE C  
209.333.1110 ALANYL.COM  
Copyright © by AEA PC  
3/11/2026



**LAC JEMEZ MOUNTAIN REGIONAL FIRE PROTECTION SYSTEM PHASE 3**

REV.	DATE	DESCRIPTION	BY

PROJECT NO: 20-600-894-03  
DESIGNED BY: DLW  
DRAWN BY: DLW  
CHECKED BY: DLW  
DATE: 3/11/2026

SHEET TITLE  
**ELECTRICAL INSTRUMENTATION**

SHEET NO:  
**E701**

NOTICE OF EXTENDED PAYMENT PROVISION:  
THIS CONSTRUCTION CONTRACT SPECIFICALLY PROVIDES FOR A PAYMENT LATER THAN 21 DAYS AFTER SUBMISSION OF AN UNDISPUTED REQUEST FOR PAYMENT. THIS CONTRACT ALLOWS THE OWNER TO MAKE PAYMENT WITHIN 45 DAYS AFTER SUBMISSION OF AN UNDISPUTED REQUEST FOR PAYMENT.

### SCADA ALARM SCHEDULE

ALARM ID	DESCRIPTION/DISPLAY	ACTIONS	LOG	NOTE
SYS-01	SYS FIBER LINK FAULT	DISABLE SYS		
SYS-02	SYS FAULT	DISABLE SYS		
01-LT01-01	TANK 1 LEVEL LOW	SYS FAULT		1
01-LT01-02	TANK 1 LEVEL HIGH	SYS FAULT		1
01-LT02-01	TANK 2 LEVEL LOW	SYS FAULT		
01-LT02-02	TANK 2 LEVEL HIGH	SYS FAULT		
01-PC01-01	SCP1 TANK 1 CATHODIC FAULT	MAINTENANCE		1
01-PC02-01	SCP1 TANK 2 CATHODIC FAULT	MAINTENANCE		
01-FM01	SCP1 FM1 FAULT	SYS FAULT		
01-BP-01	SCP1 PUMP FAULT	SYS FAULT		
01-BP-02	SCP1 VOLT/PHASE FAULT	SYS FAULT		
01-SCP-01	SCP1 DOOR OPENED	SECURITY		
01-SCP-02	SCP1 UPS FAULT	MAINTENANCE		
01-SCP-03	SCP1 SURGE FAULT	MAINTENANCE		
01-SCP-04	SCP1 TEMP HIGH	MAINTENANCE		
01-SPD-01	MAIN SPD FAULT	MAINTENANCE		
01-AC-01	TANK 1 HATCH OPENED	SECURITY		1
01-AC-02	TANK 2 HATCH OPENED	SECURITY		
01-AC-03	HOUSE DOOR OPENED	SECURITY		
01-CM-01	VALVE OPERATOR FAULT	MAINTENANCE		1
02-BP-01	SCP2 PUMP FAULT	SYS FAULT		
02-BP-02	SCP2 VOLT/PHASE FAULT	SYS FAULT		
02-SCP-01	SCP2 DOOR OPENED	SECURITY		
02-SCP-02	SCP2 UPS FAULT	MAINTENANCE		
02-SCP-03	SCP2 SURGE FAULT	MAINTENANCE		
02-SCP-04	SCP2 TEMP HIGH	MAINTENANCE		
02-SPD-01	MAIN SPD FAULT	MAINTENANCE		
02-AC-01	HOUSE DOOR OPENED	SECURITY		
03-BP-01	SCP3 PUMP FAULT	SYS FAULT		
03-BP-02	SCP3 VOLT/PHASE FAULT	SYS FAULT		
03-SCP-01	SCP3 DOOR OPENED	SECURITY		
03-SCP-02	SCP3 UPS FAULT	MAINTENANCE		
03-SCP-03	SCP3 SURGE FAULT	MAINTENANCE		
03-SCP-04	SCP3 TEMP HIGH	MAINTENANCE		
03-SPD-01	MAIN SPD FAULT	MAINTENANCE		
03-AC-01	HOUSE DOOR OPENED	SECURITY		
04-BP-01	SCP4 PUMP FAULT	SYS FAULT		
04-BP-02	SCP4 VOLT/PHASE FAULT	SYS FAULT		
04-SCP-01	SCP4 DOOR OPENED	SECURITY		
04-SCP-02	SCP4 UPS FAULT	MAINTENANCE		
04-SCP-03	SCP4 SURGE FAULT	MAINTENANCE		
04-SCP-04	SCP4 TEMP HIGH	MAINTENANCE		
04-SPD-01	MAIN SPD FAULT	MAINTENANCE		
04-AC-01	HOUSE DOOR OPENED	SECURITY		
05-LT01-01	TANK LEVEL LOW	SYS FAULT		
05-LT01-02	TANK LEVEL HIGH	SYS FAULT		
05-LT01-03	TANK TEMP LOW	ENABLE MIXER		
05-LT02-01	TANK LEVEL LOW	SYS FAULT		
05-LT02-02	TANK LEVEL HIGH	SYS FAULT		
05-FM-01	SCP5 FM1 FAULT	MAINTENANCE		
05-PC-01	SCP5 CATHODIC FAULT	MAINTENANCE		
05-SCP-01	SCP5 DOOR OPENED	SECURITY		
05-SCP-02	SCP5 UPS FAULT	SECURITY		
05-SCP-03	SCP5 SURGE FAULT	MAINTENANCE		
05-SCP-04	SCP5 TEMP HIGH	MAINTENANCE		
05-AC-01	TANK HATCH OPENED	SECURITY		
05-AC-01	ANALYZER FAULT	MAINTENANCE		

**NOTES**

**GENERAL**

ALL ALARMS TO BE DISPLAYED ON LOCAL HMI  
 ALL ALARMS AND END OF ALARMS ARE TO BE LOGGED w/ DATE & TIME  
 ALL ALARMS AND END OF ALARMS ARE TO BE TRANSMITTED TO WATER OPERATIONS SCADA

**NUMBERED**

1 EXISTING SCP0

### INSTRUMENTATION and CONTROL SCHEDULE

DEVICE		FIELD											PLC				NOTES		
ID	DESCRIPTION	LOCATION	POWER			INPUTS / OUTPUTS					CONTROL								
			V-P	FROM	CCT	TYPE	SEQ	DESCRIPTION	TO/ FROM	V	PORT ID RACK SLOT PORT	WIRE TAG	CONDUIT TAG SIZE	CRITERIA	ACTIONS	TO		INDICATE	
<b>00-SYSTEM</b>																			
<b>01-PS1 SCP0 (EXISTING)</b>																			
01-LT-01	LT-1 LEVEL TRANSMITTER TANK 1	TANK 1				AI	1	SURFACE LEVEL	PLC	24					X <= 8 FT X >= 34 FT	ALRM 01-LT01-01 ALRM 01-LT01-02		TANK LEVEL %	1
01-SH-01	HS-1 HATCH SWITCH	TANK 1				DI	1	ACCESS OPENED	PLC	24						ALRM 01-AC-01		TANK HATCH OPENED	NEW
						AO	1	POSITION		24								VALVE POSITION	
						DI	1	FAULT	PLC	24						ALRM 01-CM-01		VALVE FAULT	1
						DI	2	FULL OPEN		24								OPEN	
						DI	3	FULL CLOSED		24								CLOSED	
						DI	1	RUNNING	PLC	24									
						DI	2	FAULT/ALARM		24						ALRM 01-PC-01		CATHODIC FAULT	1
<b>01 - PS1 SCP1</b>																			
01-LT-02	LT-2 LEVEL TRANSMITTER WATER TANKS	TANK 2				AI	1	SURFACE LEVEL	PLC	24	0 3 1				X <= 8 FT X >= 34 FT	ALRM 01-LT02-01 ALRM 01-LT02-02		TANK LEVEL %	
01-SH-02	HS-2 HATCH SWITCH	TANK 2				DI	1	ACCESS OPENED	PLC	24	0 5 10		01-SH-02-DI-1	C02A	3/4		ALRM 01-AC-02		TANK HATCH OPENED
						DI	1	RUNNING		24	0 5 1		01-PC-02-DI-1						
						DI	2	FAULT/ALARM	PLC	24	0 5 2		01-PC-02-DI-2	C02A	3/4		ALRM 01-PC02-01		CATHODIC FAULT
01-TF-01	FM-1 FLOW METER	YARD	24DC	PLC		AI	1	FM1 FLOW RATE	PLC	24	0 3 2		01-TF-01-AI-1	C02A	3/4			100 GPM	
						DI	1	FM1 FLOW TOTAL		24	0 5 3		01-TF-01-DI-1					166 GAL	
						DI	2	FM1 FAULT		24	0 5 4		01-TF-01-DI-2					FM1 FAULT	
						DO	1	ENABLE RUN	PLC	24	0 6 1		01-BP-01-DO-1					RUN SYSTEM	
						EN	1	READY			0 1 1		01-BP-01-EN-1					READY	
								RUNNING										RUNNING	
								FAULT/ALARM										PUMP FAULT	
								PUMP A SPEED										PERCENT	
								PUMP B SPEED										PERCENT	
								SUCTION PRESS										PSIG	
								DISCHARGE PRESS										PSIG	
								VOLT/PHASE FAIL										VOLT/PHASE OK	
								PUMP A RUN TIME										HOURS	
								PUMP B RUN TIME										HOURS	
01-SC-01	SCP CABINET SWITCH	SCP1				DI	1	PANEL DOOR OPENED	PLC	24	0 5 5		01-SC-01-DI-1	--		ALRM 01-SCP-01		SCP1 DOOR OPENED	
01-UQ-01	SCP UPS	SCP1				DI	1	UPS FAULT	PLC	24	0 5 6		01-UQ-01-DI-1	--		ALRM 01-SCP-02		SCP1 UPS FAULT	
01-PS-01	SCP SURGE PROT'N	SCP1				DI	1	SCP SPD FAULT	PLC	24	0 5 7		01-PS-01-DI-1	--		ALRM 01-SCP-03		SCP1 SURGE FAULT	
01-XI-01	SCP TEMP	SCP1				AI	1	SCP TEMP	PLC	24	0 3 3		01-XI-01-AI-1	--		ALRM 01-SCP-04		SCP1 TEMP *F	
01-PS-02	MAIN SURGE PROT'N	PUMP HOUSE				DI	1	MAIN SPD FAULT	PLC	24	0 5 8		01-PS-02-DI-1	C03	3/4	ALRM 01-SPD-01		MAIN SPD FAULT	
01-SD-01	DS-1 DOOR SWITCH	PUMP HOUSE				DI	1	DOOR OPENED	PLC	24	0 5 9		01-SD-01-DI-1	C04	3/4	ALRM 01-AC-03		HOUSE DOOR OPENED	
<b>02 - PS2 SCP2</b>																			
						EN	1	READY			0 1 1		02-BP-01-EN-1					READY	
								RUNNING										RUNNING	
								FAULT/ALARM										PUMP FAULT	
								PUMP A SPEED										PERCENT	
								PUMP B SPEED										PERCENT	
								SUCTION PRESS										PSIG	
								DISCHARGE PRESS										PSIG	
								VOLT/PHASE FAIL										VOLT/PHASE OK	
								PUMP A RUN TIME										HOURS	
								PUMP B RUN TIME										HOURS	
02-SC-01	SCP CABINET SWITCH	SCP2				DI	1	PANEL DOOR OPENED	RI/O	24	0 4 1		02-SC-01-DI-1	--		ALRM 02-SCP-01		SCP2 DOOR OPENED	
02-UQ-01	SCP UPS	SCP2				DI	1	UPS FAULT	RI/O	24	0 4 2		02-UQ-01-DI-1	--		ALRM 02-SCP-02		SCP2 UPS FAULT	
02-PS-01	SCP SURGE PROT'N	SCP2				DI	1	SCP SPD FAULT	RI/O	24	0 4 3		02-PS-01-DI-1	--		ALRM 02-SCP-03		SCP2 SURGE FAULT	
02-XI-01	SCP TEMP	SCP2				AI	1	SCP TEMP	RI/O	24	0 3 1		02-XI-01-AI-1	--		ALRM 02-SCP-04		SCP2 TEMP *F	
02-PS-02	MAIN SURGE PROT'N	PUMP HOUSE				DI	1	MAIN SPD FAULT	RI/O	24	0 4 4		02-PS-02-DI-1	C03	3/4	ALRM 02-SPD-01		MAIN SPD FAULT	
02-SD-01	DS-1 DOOR SWITCH	PUMP HOUSE				DI	1	DOOR OPENED	RI/O	24	0 4 5		02-SD-01-DI-1	C04	3/4	ALRM 02-AC-01		HOUSE DOOR OPENED	
<b>03 - PS3 SCP3</b>																			
						EN	1	READY			0 1 1		03-BP-01-EN-1					READY	
								RUNNING										RUNNING	
								FAULT/ALARM										PUMP FAULT	
								PUMP A SPEED										PERCENT	
								PUMP B SPEED										PERCENT	
								SUCTION PRESS										PSIG	
								DISCHARGE PRESS										PSIG	
								VOLT/PHASE FAIL										VOLT/PHASE OK	
								PUMP A RUN TIME										HOURS	
								PUMP B RUN TIME										HOURS	
03-SC-01	SCP CABINET SWITCH	SCP3				DI	1	PANEL DOOR OPENED	RI/O	24	0 4 1		03-SC-01-DI-1	--		ALRM 03-SCP-01		SCP3 DOOR OPENED	
03-UQ-01	SCP UPS	SCP3				DI	1	UPS FAULT	RI/O	24	0 4 2		03-UQ-01-DI-1	--		ALRM 03-SCP-02		SCP3 UPS FAULT	
03-PS-01																			

# INSTRUMENTATION and CONTROL SCHEDULE

DEVICE			FIELD										PLC				NOTES
ID	DESCRIPTION	LOCATION	POWER			INPUTS / OUTPUTS							CONTROL				
			V-P	FROM	CCT	TYPE	SEQ	DESCRIPTION	TO/ FROM	V	PORT ID RACK SLOT PORT	WIRE TAG	CONDUIT TAG SIZE	CRITERIA	ACTIONS	TO	
<b>CONTINUED FROM PREVIOUS DRAWING SHEET</b>																	
<b>04 - PS4 SCP4</b>																	
04-BP-01	BP-1 PUMP SKID	PUMP HOUSE	480AC-3	L1	20,22,24	EN	1	READY RUNNING				0 1 1	04-BP-01-EN-1				READY RUNNING
								FAULT/ALARM									ALRM 04-BP-01
								PUMP A SPEED									PUMP FAULT PERCENT
								PUMP B SPEED									
								SUCTION PRESS									PSIG
								DISCHARGE PRESS									PSIG
								VOLT/PHASE FAIL									ALRM 04-BP-02
								PUMP A RUN TIME									HOURS
								PUMP B RUN TIME									HOURS
04-PF-01	FP-1 CHLORINATOR	PUMP HOUSE	240AC-1	P1	6,8	DO	1	RUN CHLORINATOR	RI/O	24	0 5 2	04-PF-01-DO-1	C08	3/4			RUN CHLORINATOR
						AI	1	SCALE WEIGHT		24	0 3 5	04-PF-01-AI-1					SOLUTION WEIGHT
04-SC-01	SCP CABINET SWITCH	SCP4				DI	1	PANEL DOOR OPENED	RI/O	24	0 4 1	04-SC-01-DI-1	--				ALRM 04-SC-01
04-UQ-01	SCP UPS	SCP4				DI	1	UPS FAULT	RI/O	24	0 4 2	04-UQ-01-DI-1	--				ALRM 04-SC-02
04-PS-01	SCP SURGE PROT'N	SCP4				DI	1	SCP SPD FAULT	RI/O	24	0 4 3	04-PS-01-DI-1	--				ALRM 04-SC-03
04-XI-01	SCP TEMP	SCP4				AI	1	SCP TEMP	RI/O	24	0 3 1	04-XI-01-AI-1	--		>= 105 °F	ALRM 04-SC-04	
04-PS-02	MAIN SURGE PROT'N	PUMP HOUSE				DI	1	MAIN SPD FAULT	RI/O	24	0 4 4	04-PS-02-DI-1	C03	3/4			ALRM 04-SPD-01
04-SD-01	DS-1 DOOR SWITCH	PUMP HOUSE				DI	1	DOOR OPENED	RI/O	24	0 4 5	04-SD-01-DI-1	C04	3/4			ALRM 04-AC-01
<b>05 - CAMP MAY RESERVOIR SCP5</b>																	
05-LT-01	LT-1 TANK LEVEL/TEMP TRANSMITTER	TANK				AI	1	SURFACE LEVEL	RI/O	24	0 3 1	05-LT-01-AI-1	C05	3/4	X <= 8 FT	ALRM 05-LT01-01	TANK LEVEL %
						AI	2	WATER TEMPERATURE		24	0 3 2	05-LT-01-AI-2			X >= 38 FT	ALRM 05-LT01-02	
								< 33 °F									ALRM 05-LT01-03
								<= 35 °F									ENABLE MIXER
05-LT-02	LT-2 TANK LEVEL TRANSMITTER	TANK				AI	1	SURFACE LEVEL	RI/O	24	0 3 3	05-LT-02-AI-1	C05	3/4	X <= 8 FT	ALRM 05-LT02-01	TANK LEVEL %
								X >= 38 FT									ALRM 05-LT02-02
05-SH-01	HS-1 HATCH SWITCH	TANK				DI	1	ACCESS OPENED	RI/O	24	0 4 8	05-SH-01-DI-1	C05	3/4			ALRM 05-AC-01
						AI	1	FM1 FLOW RATE	RI/O	24	0 3 4	05-TF-01-AI-1					TANK HATCH OPENED
05-TF-01	FM-1 FLOW METER	YARD				DI	1	FM1 FLOW TOTAL	RI/O	24	0 4 1	05-TF-01-DI-1	C06	3/4			100 GPM
						DI	2	FM1 FAULT		24	0 4 2	05-TF-01-DI-2					165 GAL
						DI	1	RUNNING	RI/O	24	0 4 3	05-PC-01-DI-1					FM1 FAULT
05-PC-01	CP-1 TANK CATHODIC PROTECTION	TANK	120AC	SCP		DI	2	FAULT/ALARM	RI/O	24	0 4 4	05-PC-01-DI-2	C05	3/4			ALRM 05-PC01
						DO	1	ENABLE RUN	RI/O	24	0 5 1	05-CM-01-DO-1					CATHODIC FAULT
05-CM-01	MC-1 TANK MIXER	TANK	240AC-1	SCP		AI	1	MOTOR CURRENT	RI/O	24	0 3 7	05-CM-01-AI-1	--				ALRM 05-CM-01
						DI	1	RUNNING		24	0 4 9	05-AC-01-DI-1					RUNNING
05-AC-01	AC-1 CI ANALYZER	SKI AREA PUMP HOUSE	120AC-1			DI	2	FAULT/ALARM	RI/O	24	0 4 10	05-AC-01-DI-2	C07	3/4			ALRM 05-AC-01
						AI	1	CI LEVEL		24	0 3 6	05-AC-01-AI-1					CI ANALYZER FAULT
05-SC-01	SCP CABINET SWITCH	SCP5				DI	1	PANEL DOOR OPENED	RI/O	24	0 4 5	05-SC-01-DI-1	--				ALRM 05-SC-01
05-UQ-01	SCP UPS	SCP5				DI	1	UPS FAULT	RI/O	24	0 4 6	05-UQ-01-DI-1	--				ALRM 05-SC-02
05-PS-01	SCP SURGE PROT'N	SCP5				DI	1	SCP SPD FAULT	RI/O	24	0 4 7	05-PS-01-DI-1	--				ALRM 05-SC-03
05-XI-01	SCP TEMP	SCP5				AI	1	SCP TEMP	RI/O	24	0 3 5	05-XI-01-AI-1	--		>= 105 °F	ALRM 05-SC-04	

**NOTES**

GENERAL  
X = MEASURED LEVEL  
SP = SET POINT  
PLC = PLC AT RTU  
RI/O = REMOTE I/O  
NS = NETWORK SWITCH  
CONDUIT SIZES ARE FOR SINGLE DEVICE - SEE PLANS FOR I&C CONDUITS

NUMBERED  
1 EXISTING  
2 MOTOR CONTROLLER LOCATED INSIDE SCP5

**WILSON & COMPANY**  
2600 THE AMERICAN RD. SE SUITE 100  
RIO RANCHO, NM 87124  
PHONE: 505-898-8021  
FAX: 505-898-8501  
www.wilsoncc.com

**AA**  
CONSULTANTS  
ELECTRICAL ENGINEERING  
7401 HENRIETTA, SUITE C  
DALLAS, TEXAS 75249  
202.313.1310 ALAN@AAE.COM  
Copyright © by AAEC  
3/11/2026

3/11/2026  
FRANK S. L. WETTER, P.E.  
NEW MEXICO  
7276  
REGISTERED PROFESSIONAL  
SEAL

LAC JEMEZ MOUNTAIN  
REGIONAL FIRE  
PROTECTION SYSTEM  
PHASE 3

REV.	DATE	DESCRIPTION	BY

PROJECT NO: 20-600-894-03  
DESIGNED BY: DLW  
DRAWN BY: DLW  
CHECKED BY: DLW  
DATE: 3/11/2026

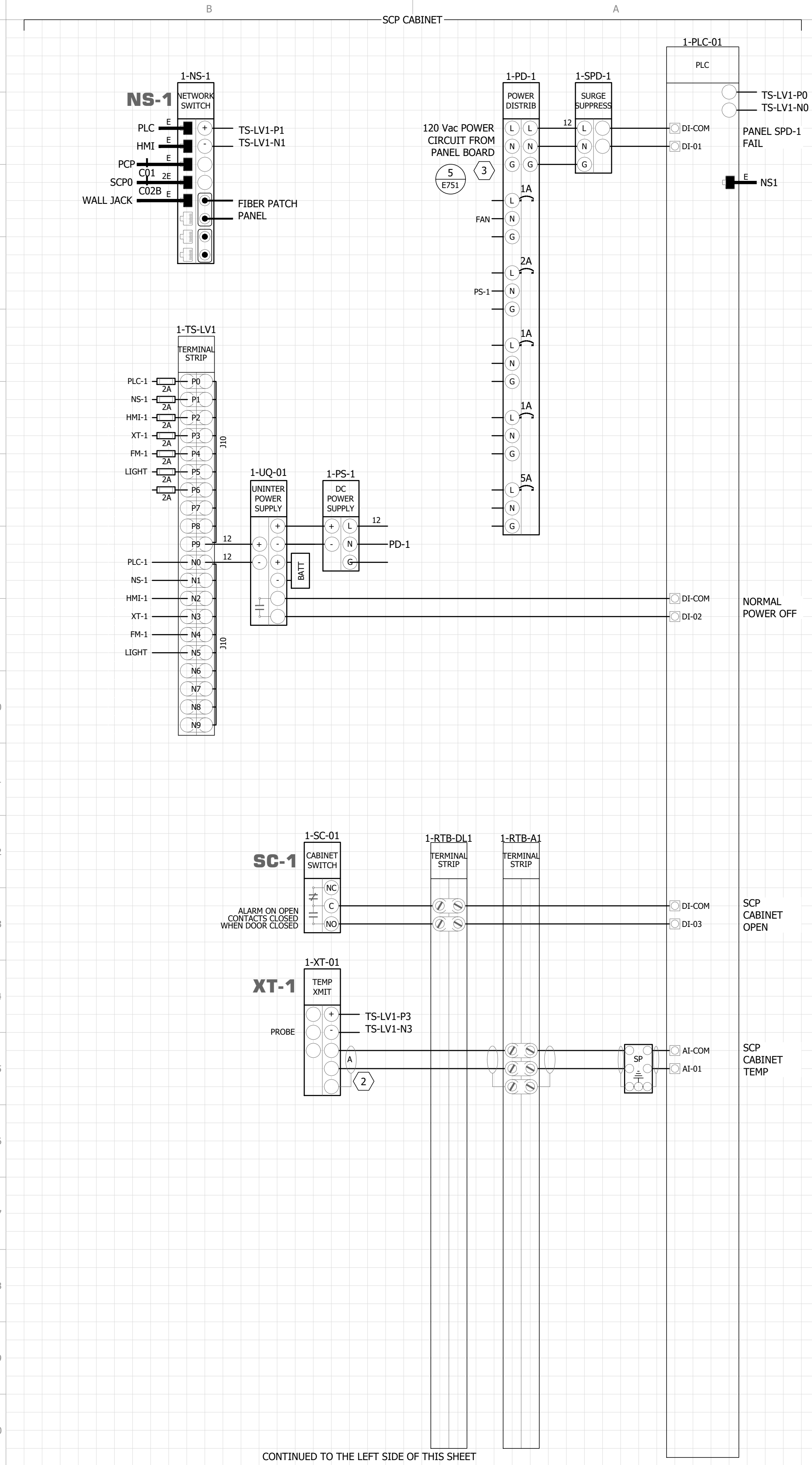
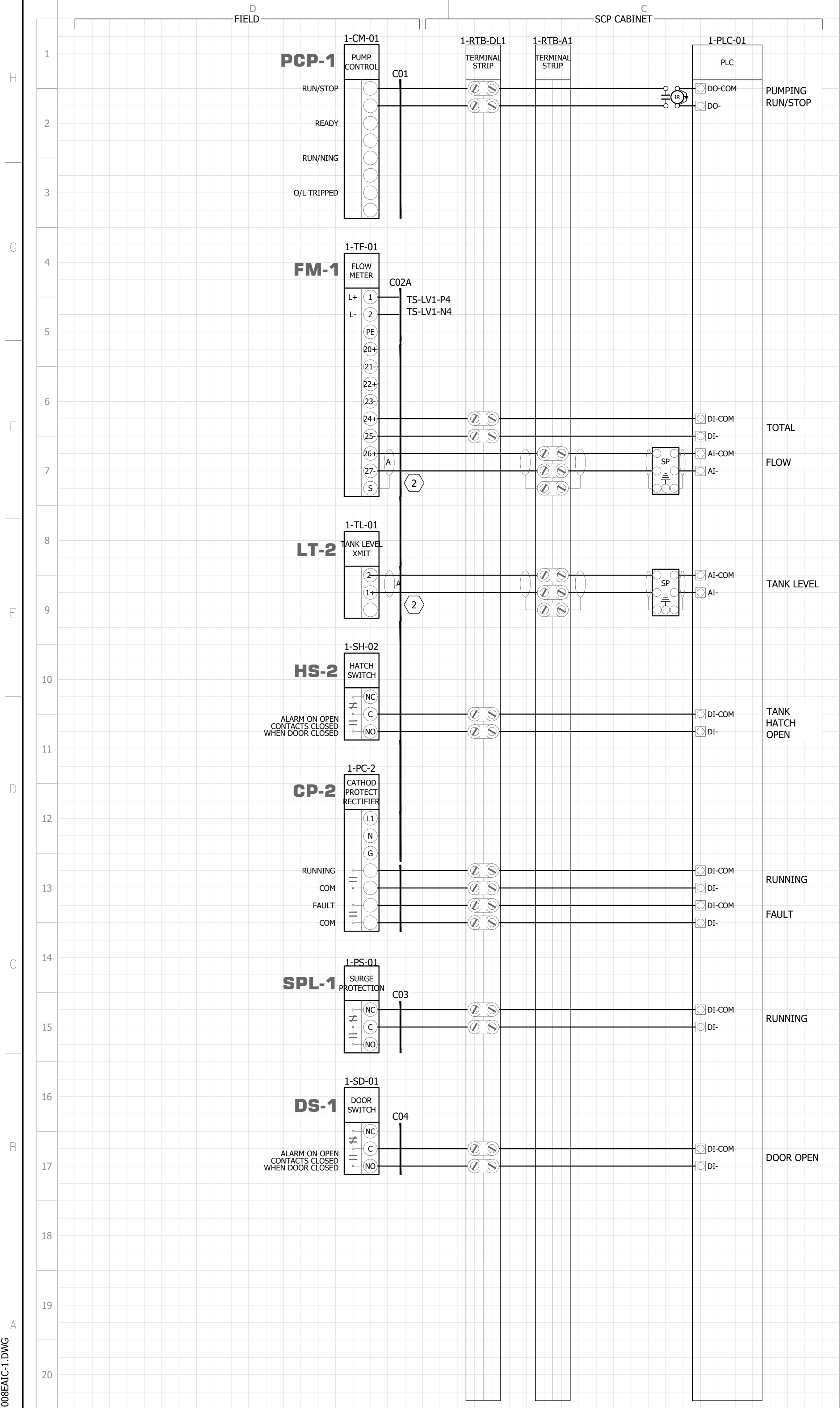
SHEET TITLE  
**ELECTRICAL INSTRUMENTATION SCHEDULES**

SHEET NO:  
**E703**

NOTICE OF EXTENDED PAYMENT PROVISION:  
THIS CONSTRUCTION CONTRACT SPECIFICALLY PROVIDES FOR A PAYMENT LATER THAN 21 DAYS AFTER SUBMISSION OF AN UNDISPUTED REQUEST FOR PAYMENT. THIS CONTRACT ALLOWS THE OWNER TO MAKE PAYMENT WITHIN 45 DAYS AFTER SUBMISSION OF AN UNDISPUTED REQUEST FOR PAYMENT.

008EAC-L.DWG

CONTINUED FROM THE RIGHT SIDE OF THIS SHEET



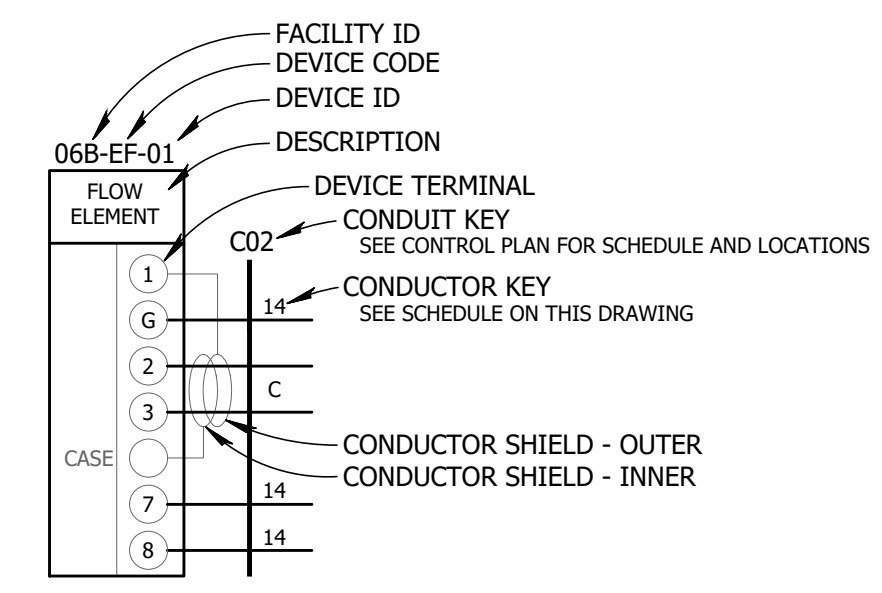
**GENERAL SHEET NOTES**

THIS DRAWING IS INCOMPLETE AND NOT TO BE USED FOR CONSTRUCTION UNLESS IT IS SEALED, SIGNED, AND DATED  
 THIS PLOT MAY NOT BE FULL SIZE - ADJUST SCALE ACCORDINGLY  
 REFER TO GENERAL NOTES ON DRAWING E001

**SHEET KEY NOTES**

- 1 PROVIDE 24 Vdc AUXILIARY (AUX) POWER FOR DEVICE
- 2 CONNECT CONDUCTOR SHIELDS PER MANUFACTURER'S INSTALLATION INSTRUCTIONS
- 3 DO NOT BOND N-G AT CABINET
- 4 CONNECT NORMALLY OPEN (NO) CONTACTS IN PARALLEL FOR COMMON FAULT SIGNAL

**LEGEND**



**CONDUCTOR SCHEDULE**

KEY	DESCRIPTION
A	#18TPS (2C) STRANDED TINNED CU TWISTED PAIR SHIELDED
B	SHIELDED (FURNISHED BY INSTRUMENT SUPPLIER)
C	DOUBLE SHIELDED (FURNISHED BY INSTRUMENT SUPPLIER)
D	#18TPS (3C) STRANDED TINNED CU TWISTED PAIR SHIELDED w/ GROUND
E	4#24 UTP CAT 6 ETHERNET PLENUM RATED
F	COAXIAL ANTENNA CABLE RG-6U
12	#12 AWG SOLID CU THHN/THWN-2 600V
14	#14 AWG STRANDED CU MTW 300V
16	#16 AWG STRANDED CU MTW 300V
6	#6 AWG SOLID CU GND (GREEN THHN/THWN-2) 600V
FOMxx	MULTI-MODE FIBER OPTIC BUNDLE xx = STRAND COUNT
FOSxx	SINGLE-MODE FIBER OPTIC BUNDLE xx = STRAND COUNT

ALL SIGNAL CONDUCTORS TO BE KEY 16 UNLESS INDICATED OTHERWISE

TYPE	INSULATION JACKET COLOR
120/208-240 Vac	BLACK (φA)   RED (φB)   BLUE (φC) - WHITE (N)
277/480 Vac	BROWN (φA)   ORANGE (φB)   YELLOW (φC) - GRAY (N)
G	GREEN
IG	GREEN w/ YELLOW STRIPE
120-277 Vac DI	PINK or WHITE w/ BLACK, RED, OR BLUE STRIPE
120-277 Vac DO	TAN or WHITE w/ BLACK, RED, OR BLUE STRIPE
0-30 Vdc DI	PURPLE or BLACK, RED, or BLUE w/ WHITE STRIPE
0-30 Vdc DO	BLACK w/ WHITE STRIPE
AI	BLACK
AO	BLACK
E	LT. BLUE (CAT5e) LIME (CAT6)
FOM	ORANGE
FOS	YELLOW

**CONDUIT SCHEDULE**

KEY	SIZE	FROM	TO	NOTE
C01	1"	SCP-	PCP PUMP CONTROL PANEL	2
C02A	1"	SCP1	LT-1, HS-1, CP-1, FM-1	1
C02B	1"	SCP1	SCP0	1
C03	3/4"	SCP-	SPL SURGE PROTECTION	2
C04	3/4"	SCP-	DS1 DOOR SWITCH	2
C05	1+1/2"	SCP5	LT-1, HS-1, CP-1	3
C06	1+1/2"	SCP5	FM-1 FLOW METER	3
C07	1+1/2"	SCP5	AC-1	3
C08	1"	SCP4	FP-1	4

**NOTES**

- 1 ONLY PUMP STATION 1
- 2 ONLY PUMP STATIONS
- 3 ONLY UPPER RESERVOIR SCP5
- 4 ONLY PUMP STATION 4

**WILSON & COMPANY**  
 2600 THE AMERICAN RD. SE SUITE 100  
 RIO RANCHO, NM 87124  
 PHONE: 505-898-8021  
 FAX: 505-898-8501  
 www.wilsonco.com

**AEA**  
 CONSULTANTS  
 ELECTRICAL ENGINEERING  
 7401 HUNTERS LANE, SUITE C  
 209 333 3310 ALBUQUERQUE, NM 87126  
 Copyright © by AEA PC 3/11/2026

3/11/2026  
 PAUL B. L. WETTER, P.E.  
 NEW MEXICO  
 8726  
 REGISTERED PROFESSIONAL ENGINEER  
 SEAL

LAC JEMEZ MOUNTAIN  
 REGIONAL FIRE  
 PROTECTION SYSTEM  
 PHASE 3

REV.	DATE	DESCRIPTION	BY

PROJECT NO: 20-600-894-03  
 DESIGNED BY: DLW  
 DRAWN BY: DLW  
 CHECKED BY: DLW  
 DATE: 3/11/2026

SHEET TITLE  
**ELECTRICAL INSTRUMENTATION SCP1**

SHEET NO:  
**E711**

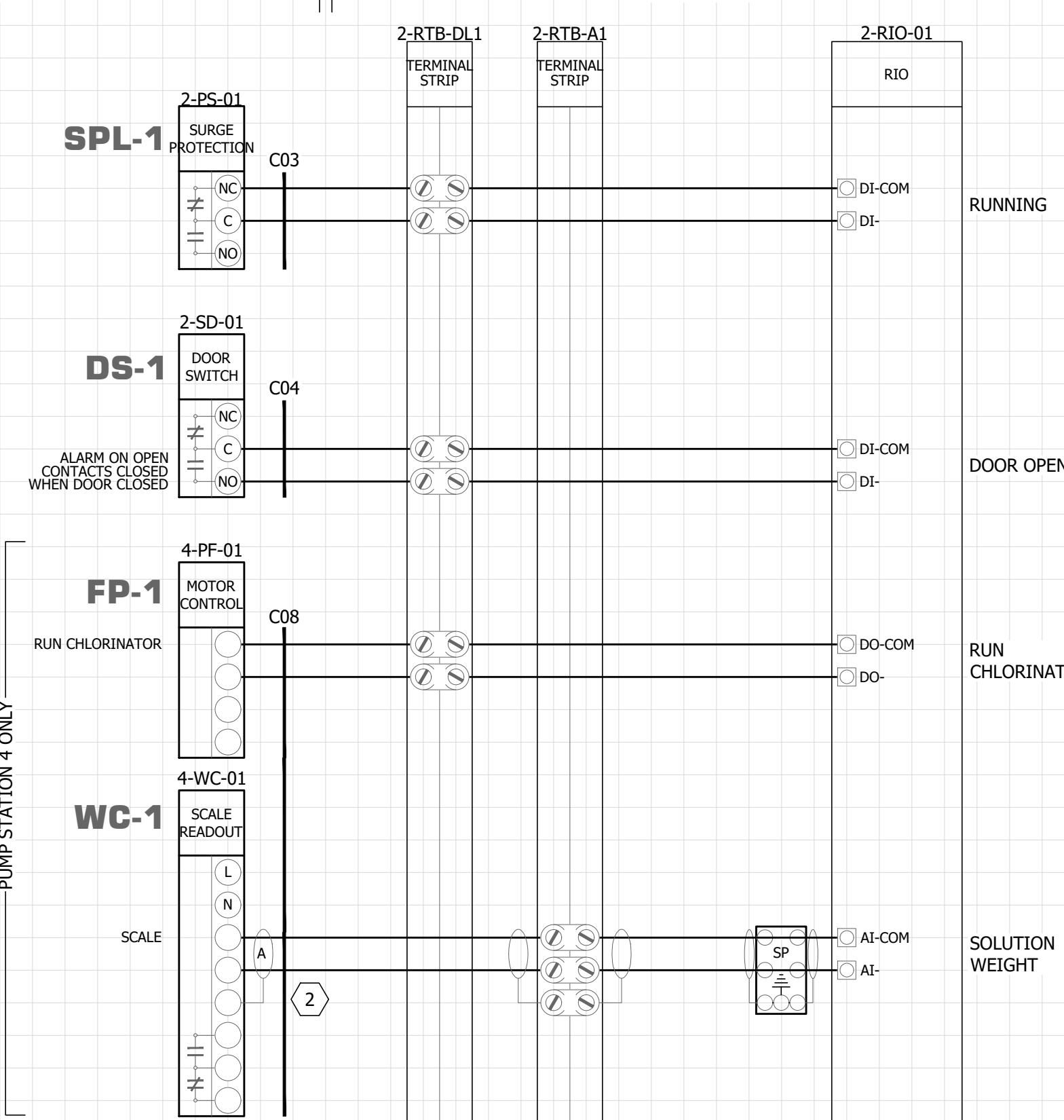
NOTICE OF EXTENDED PAYMENT PROVISION:  
 THIS CONSTRUCTION CONTRACT SPECIFICALLY PROVIDES FOR A PAYMENT LATER THAN 21 DAYS AFTER SUBMISSION OF AN UNDISPUTED REQUEST FOR PAYMENT. THIS CONTRACT ALLOWS THE OWNER TO MAKE PAYMENT WITHIN 45 DAYS AFTER SUBMISSION OF AN UNDISPUTED REQUEST FOR PAYMENT.

008EAC-L.DWG

CONTINUED TO THE LEFT SIDE OF THIS SHEET

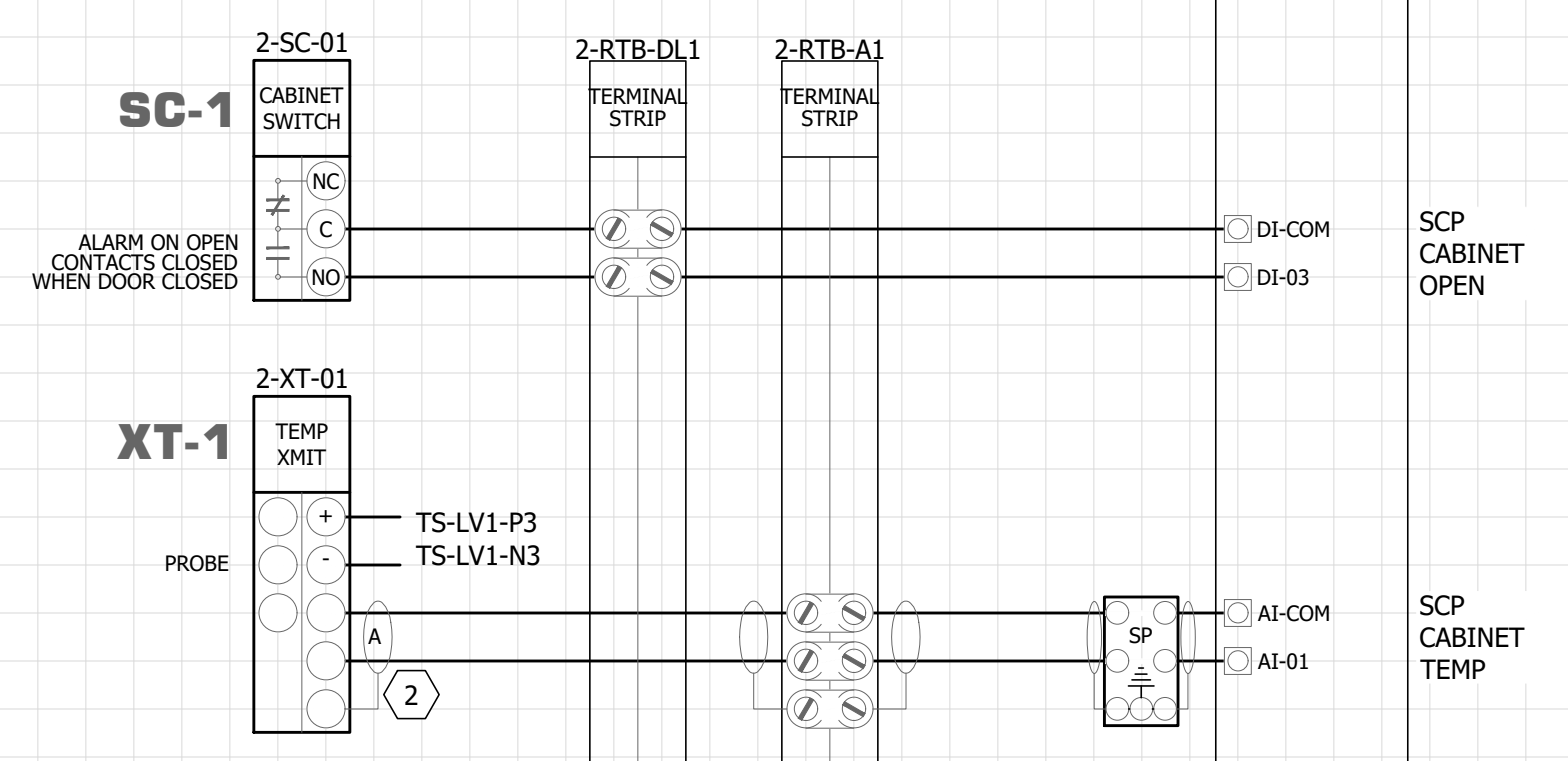
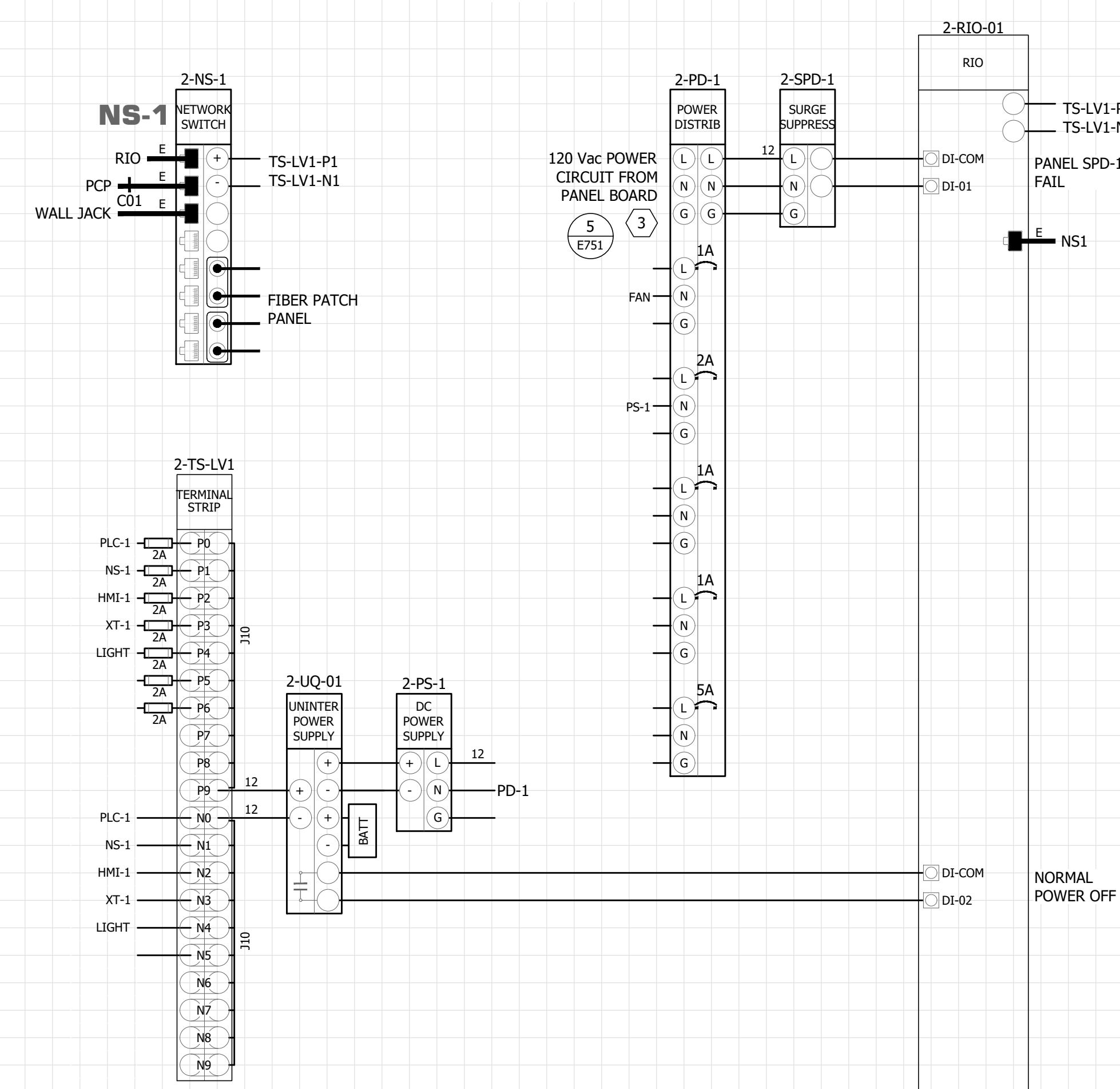
CONTINUED FROM THE RIGHT SIDE OF THIS SHEET

FIELD SCP CABINET



PUMP STATION 4 ONLY

SCP CABINET



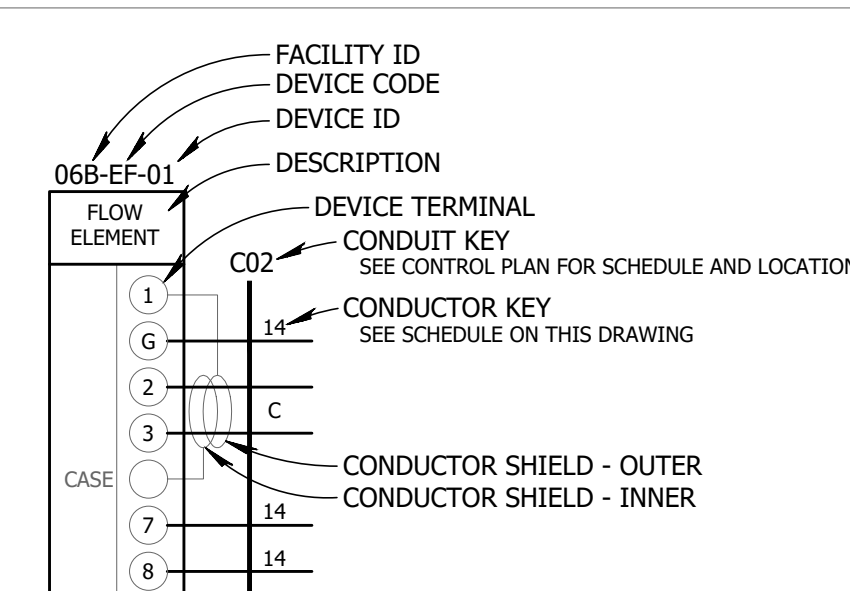
### GENERAL SHEET NOTES

THIS DRAWING IS INCOMPLETE AND NOT TO BE USED FOR CONSTRUCTION UNLESS IT IS SEALED, SIGNED, AND DATED  
 THIS PLOT MAY NOT BE FULL SIZE - ADJUST SCALE ACCORDINGLY  
 REFER TO GENERAL NOTES ON DRAWING E001

### SHEET KEY NOTES

- PROVIDE 24 Vdc AUXILIARY (AUX) POWER FOR DEVICE
- CONNECT CONDUCTOR SHIELDS PER MANUFACTURER'S INSTALLATION INSTRUCTIONS
- DO NOT BOND N-G AT CABINET
- CONNECT NORMALLY OPEN (NO) CONTACTS IN PARALLEL FOR COMMON FAULT SIGNAL

### LEGEND



### CONDUCTOR SCHEDULE

KEY	DESCRIPTION
A	#18TPS (2C) STRANDED TINNED CU TWISTED PAIR SHIELDED
B	SHIELDED (FURNISHED BY INSTRUMENT SUPPLIER)
C	DOUBLE SHIELDED (FURNISHED BY INSTRUMENT SUPPLIER)
D	#18TPS (3C) STRANDED TINNED CU TWISTED PAIR SHIELDED w/ GROUND
E	4#24 UTP CAT 6 ETHERNET PLENUM RATED
F	COAXIAL ANTENNA CABLE RG-6U
12	#12 AWG SOLID CU THHN/THWN-2 600V
14	#14 AWG STRANDED CU MTW 300V
16	#16 AWG STRANDED CU MTW 300V
6	#6 AWG SOLID CU GND (GREEN THHN/THWN-2) 600V
FOMxx	MULTI-MODE FIBER OPTIC BUNDLE xx = STRAND COUNT
FOSxx	SINGLE-MODE FIBER OPTIC BUNDLE xx = STRAND COUNT

ALL SIGNAL CONDUCTORS TO BE KEY 16 UNLESS INDICATED OTHERWISE

### CONDUIT SCHEDULE

KEY	SIZE	FROM	TO	NOTE
C01	1"	SCP	PCP PUMP CONTROL PANEL	2
C02A	1"	SCP1	LT-1, HS-1, CP-1, FM-1	1
C02B	1"	SCP1	SCP0	1
C03	3/4"	SCP	SPL SURGE PROTECTION	2
C04	3/4"	SCP	DS1 DOOR SWITCH	2
C05	1+1/2"	SCP5	LT-1, HS-1, CP-1	3
C06	1+1/2"	SCP5	FM-1 FLOW METER	3
C07	1+1/2"	SCP5	AC-1	3
C08	1"	SCP4	FP-1	4

- NOTES
- ONLY PUMP STATION 1
  - ONLY PUMP STATIONS
  - ONLY UPPER RESERVOIR SCP5
  - ONLY PUMP STATION 4

**WILSON & COMPANY**  
 2600 THE AMERICAN RD. SE SUITE 100  
 RIO RANCHO, NM 87124  
 PHONE: 505-898-8021  
 FAX: 505-898-8501  
 www.wilsonco.com

**AE**  
 CONSULTANTS  
 ELECTRICAL ENGINEERING  
 7401 HUNTERS LANE, SUITE C  
 209 333 3310 ALAN LLOYD  
 Copyright © by AEA PC  
 3/11/2026

SEAL  
 3/11/2026  
 RAINBOW L. WETTER  
 NEW MEXICO  
 8726  
 REGISTERED PROFESSIONAL  
 PROJECT NAME  
**LAC JEMEZ MOUNTAIN  
 REGIONAL FIRE  
 PROTECTION SYSTEM  
 PHASE 3**

REV.	DATE	DESCRIPTION	BY

PROJECT NO: 20-600-894-03  
 DESIGNED BY: DLW  
 DRAWN BY: DLW  
 CHECKED BY: DLW  
 DATE: 3/11/2026

SHEET TITLE  
**ELECTRICAL  
 INSTRUMENTATION  
 SCP2 SCP3 SCP4**

SHEET NO:  
**E712**

NOTICE OF EXTENDED PAYMENT PROVISION:  
 THIS CONSTRUCTION CONTRACT SPECIFICALLY PROVIDES FOR A PAYMENT  
 LATER THAN 21 DAYS AFTER SUBMISSION OF AN UNDISPUTED REQUEST FOR  
 PAYMENT. THIS CONTRACT ALLOWS THE OWNER TO MAKE PAYMENT WITHIN  
 45 DAYS AFTER SUBMISSION OF AN UNDISPUTED REQUEST FOR PAYMENT.

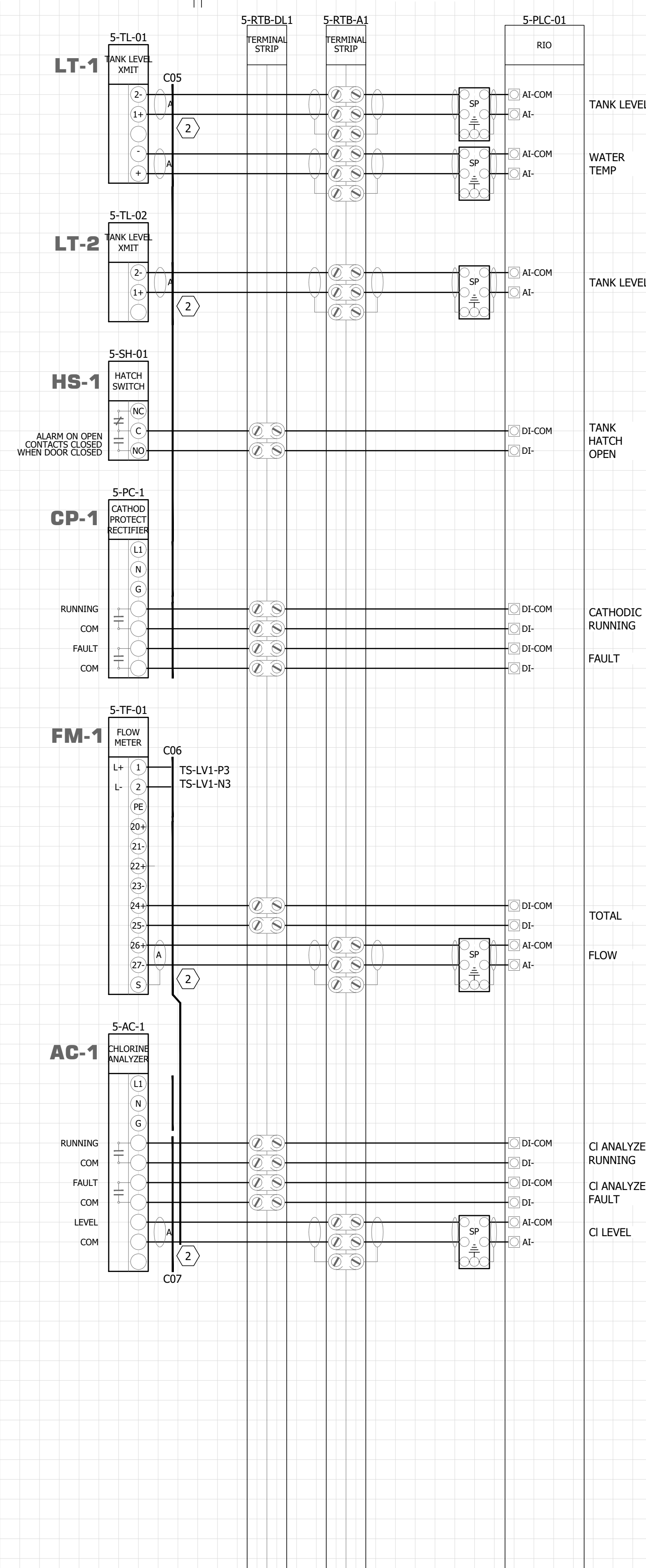
008EAC-L.DWG

CONTINUED TO THE LEFT SIDE OF THIS SHEET

CONTINUED FROM THE RIGHT SIDE OF THIS SHEET

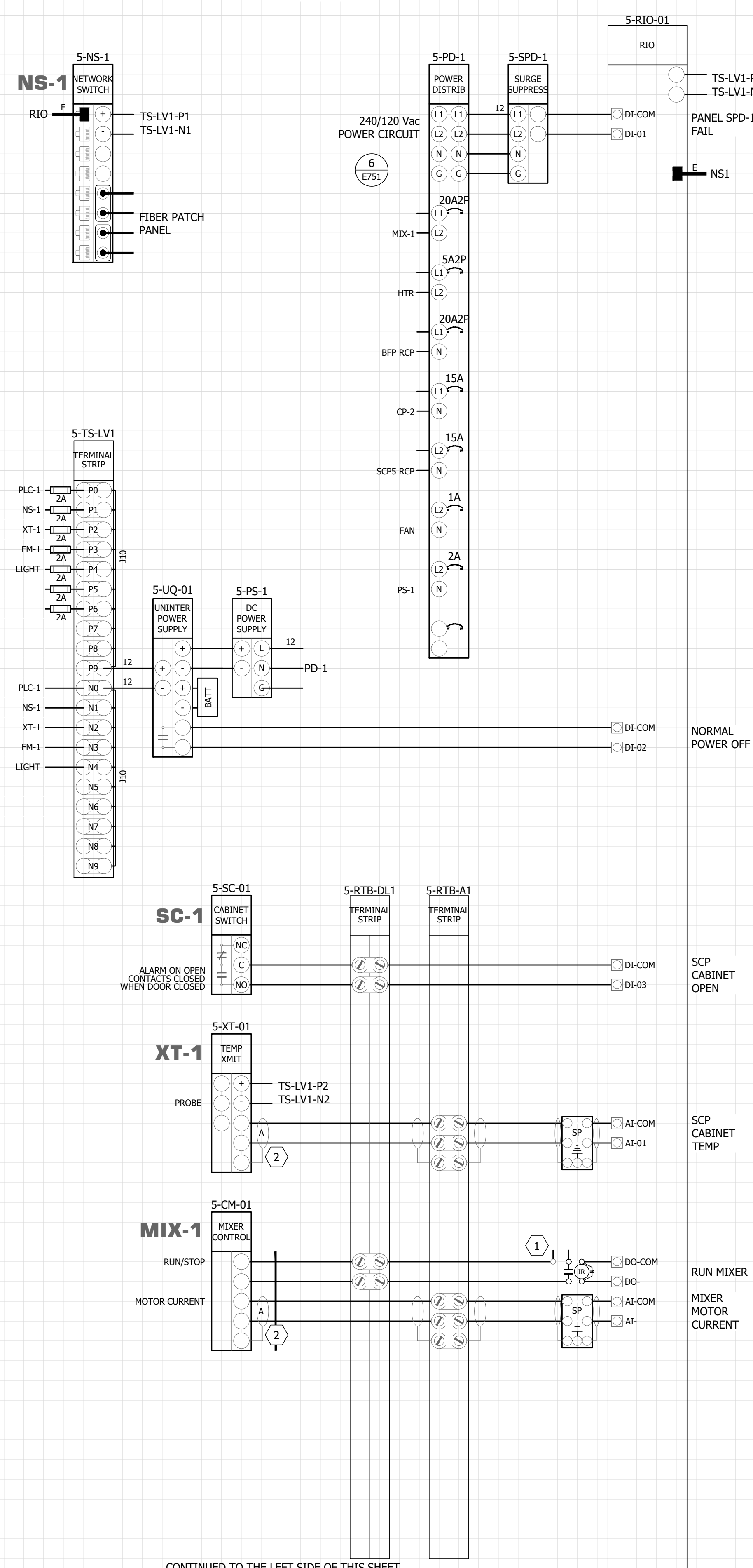
FIELD

SCP CABINET



TANK LEVEL  
WATER TEMP  
TANK LEVEL  
TANK HATCH OPEN  
CATHODIC RUNNING  
FAULT  
TOTAL FLOW  
CI ANALYZER RUNNING  
CI ANALYZER FAULT  
CI LEVEL

SCP CABINET



TANK LEVEL  
WATER TEMP  
TANK LEVEL  
TANK HATCH OPEN  
CATHODIC RUNNING  
FAULT  
NORMAL POWER OFF  
SCP CABINET OPEN  
SCP CABINET TEMP  
RUN MIXER  
MIXER MOTOR CURRENT

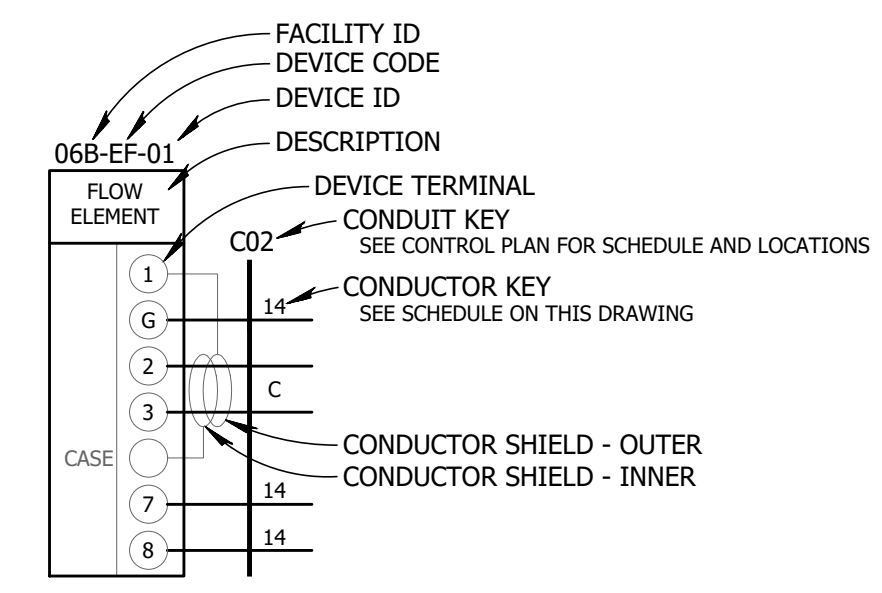
**GENERAL SHEET NOTES**

THIS DRAWING IS INCOMPLETE AND NOT TO BE USED FOR CONSTRUCTION UNLESS IT IS SEALED, SIGNED, AND DATED  
THIS PLOT MAY NOT BE FULL SIZE - ADJUST SCALE ACCORDINGLY  
REFER TO GENERAL NOTES ON DRAWING E001

**SHEET KEY NOTES**

- PROVIDE 24 Vdc AUXILIARY (AUX) POWER FOR DEVICE
- CONNECT CONDUCTOR SHIELDS PER MANUFACTURER'S INSTALLATION INSTRUCTIONS
- DO NOT BOND N-G AT CABINET
- CONNECT NORMALLY OPEN (NO) CONTACTS IN PARALLEL FOR COMMON FAULT SIGNAL

**LEGEND**



**CONDUCTOR SCHEDULE**

KEY	DESCRIPTION
A	#18TPS (2C) STRANDED TINNED CU TWISTED PAIR SHIELDED
B	SHIELDED (FURNISHED BY INSTRUMENT SUPPLIER)
C	DOUBLE SHIELDED (FURNISHED BY INSTRUMENT SUPPLIER)
D	#18TPS (3C) STRANDED TINNED CU TWISTED PAIR SHIELDED w/ GROUND
E	4#24 UTP CAT 6 ETHERNET PLENUM RATED
F	COAXIAL ANTENNA CABLE RG-6U
12	#12 AWG SOLID CU THHN/THWN-2 600V
14	#14 AWG STRANDED CU MTW 300V
16	#16 AWG STRANDED CU MTW 300V
6	#6 AWG SOLID CU GND (GREEN THHN/THWN-2) 600V
FOMxx	MULTI-MODE FIBER OPTIC BUNDLE xx = STRAND COUNT
FOSxx	SINGLE-MODE FIBER OPTIC BUNDLE xx = STRAND COUNT

ALL SIGNAL CONDUCTORS TO BE KEY 16 UNLESS INDICATED OTHERWISE

TYPE	INSULATION JACKET COLOR
120/208-240 Vac	BLACK (ΦA)   RED (ΦB)   BLUE (ΦC) - WHITE (N)
277/480 Vac	BROWN (ΦA)   ORANGE (ΦB)   YELLOW (ΦC) - GRAY (N)
G	GREEN
IG	GREEN w/ YELLOW STRIPE
120-277 Vac DI	PINK or WHITE w/ BLACK, RED, OR BLUE STRIPE
120-277 Vac DO	TAN or WHITE w/ BLACK, RED, OR BLUE STRIPE
0-30 Vdc DI	PURPLE or BLACK, RED, or BLUE w/ WHITE STRIPE
0-30 Vdc DO	BLACK w/ WHITE STRIPE
AI	BLACK
AO	BLACK
E	LT. BLUE (CAT5e) LIME (CAT6)
FOM	ORANGE
FOS	YELLOW

**CONDUIT SCHEDULE**

KEY	SIZE	FROM	TO	NOTE
C01	1"	SCP-	PCP PUMP CONTROL PANEL	2
C02A	1"	SCP1	LT-1, HS-1, CP-1, FM-1	1
C02B	1"	SCP1	SCP0	1
C03	3/4"	SCP-	SPL SURGE PROTECTION	2
C04	3/4"	SCP-	DS1 DOOR SWITCH	2
C05	1+1/2"	SCP5	LT-1, HS-1, CP-1	3
C06	1+1/2"	SCP5	FM-1 FLOW METER	3
C07	1+1/2"	SCP5	AC-1	3
C08	1"	SCP4	FP-1	4

- NOTES  
1 ONLY PUMP STATION 1  
2 ONLY PUMP STATIONS  
3 ONLY UPPER RESERVOIR SCP5  
4 ONLY PUMP STATION 4

**WILSON & COMPANY**  
2800 THE AMERICAN RD. SE SUITE 100  
RIO RANCHO, NM 87124  
PHONE: 505-898-6021  
FAX: 505-898-6501  
www.wilsonco.com

**AEA**  
CONSULTANTS  
ELECTRICAL ENGINEERING  
7401 HUNTERS LANE, SUITE C  
DALLAS, TX 75249  
202-333-3310, ALAN@AEA.COM  
Copyright © by AEA PC  
3/11/2026

3/11/2026  
NEW MEXICO  
7226  
PAUL B. L. WETTER, P.E.  
REGISTERED PROFESSIONAL

LAC JEMEZ MOUNTAIN  
REGIONAL FIRE  
PROTECTION SYSTEM  
PHASE 3

PROJECT NAME	DESCRIPTION	BY

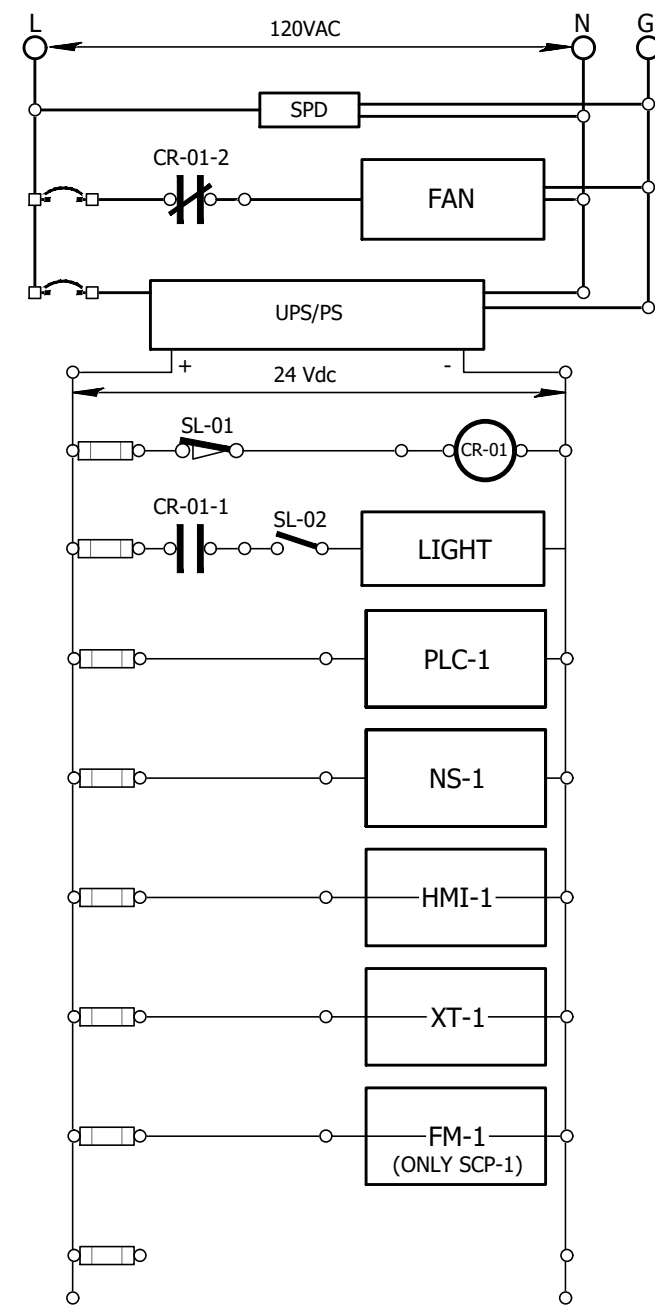
PROJECT NO:	20-600-894-03
DESIGNED BY:	DLW
DRAWN BY:	DLW
CHECKED BY:	DLW
DATE:	3/11/2026

SHEET TITLE  
**ELECTRICAL INSTRUMENTATION SCP5**

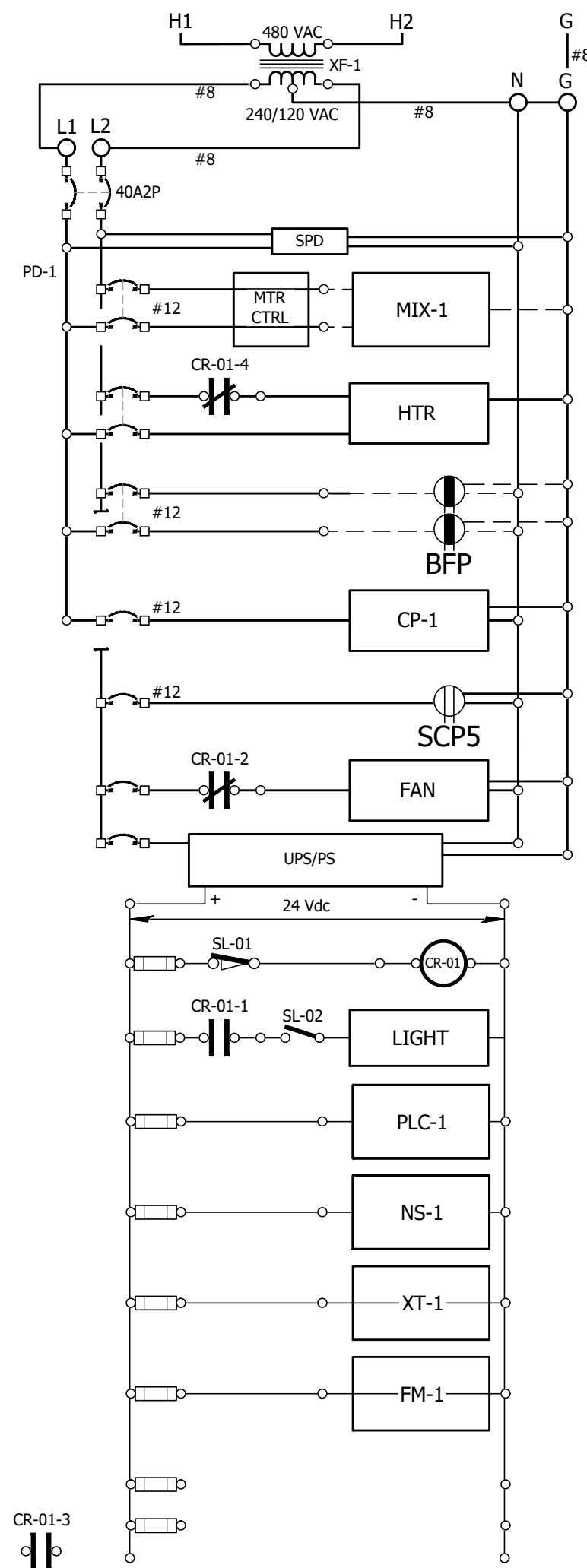
SHEET NO:  
**E713**

NOTICE OF EXTENDED PAYMENT PROVISION:  
THIS CONSTRUCTION CONTRACT SPECIFICALLY PROVIDES FOR A PAYMENT LATER THAN 21 DAYS AFTER SUBMISSION OF AN UNDISPUTED REQUEST FOR PAYMENT. THIS CONTRACT ALLOWS THE OWNER TO MAKE PAYMENT WITHIN 45 DAYS AFTER SUBMISSION OF AN UNDISPUTED REQUEST FOR PAYMENT.

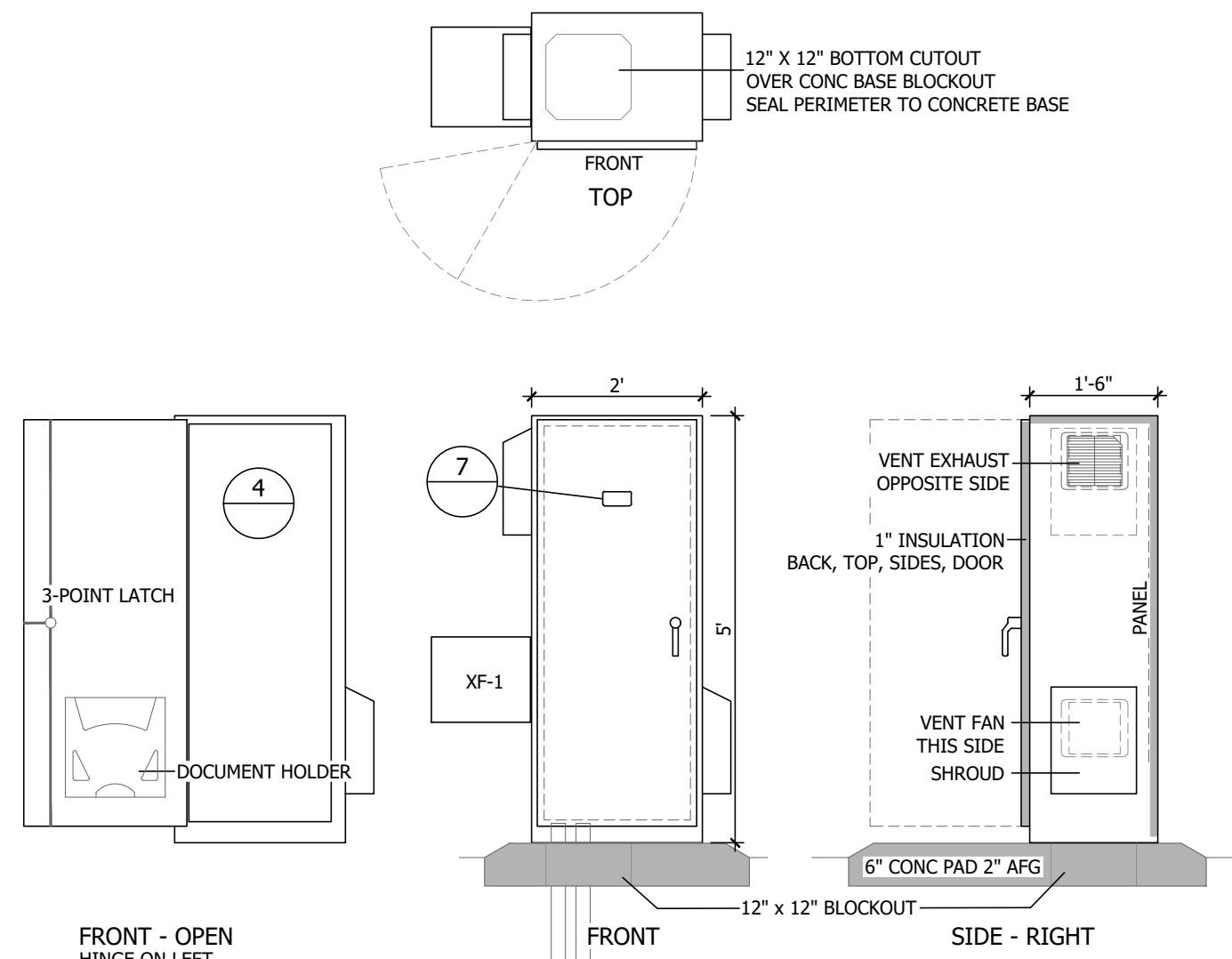
008EAC-L.DWG



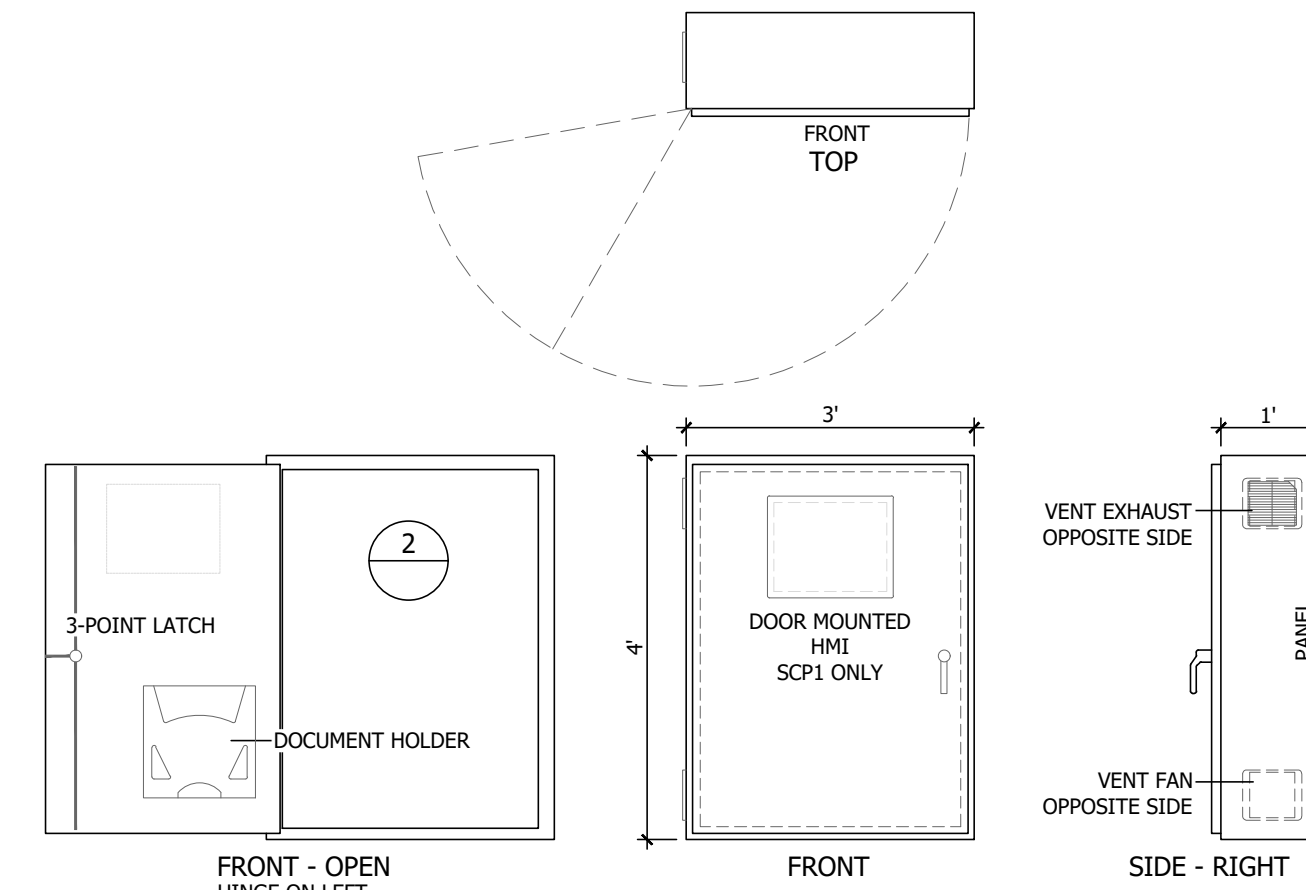
**5 DIAGRAM**  
POWER SCP1 - SCP4  
NO SCALE



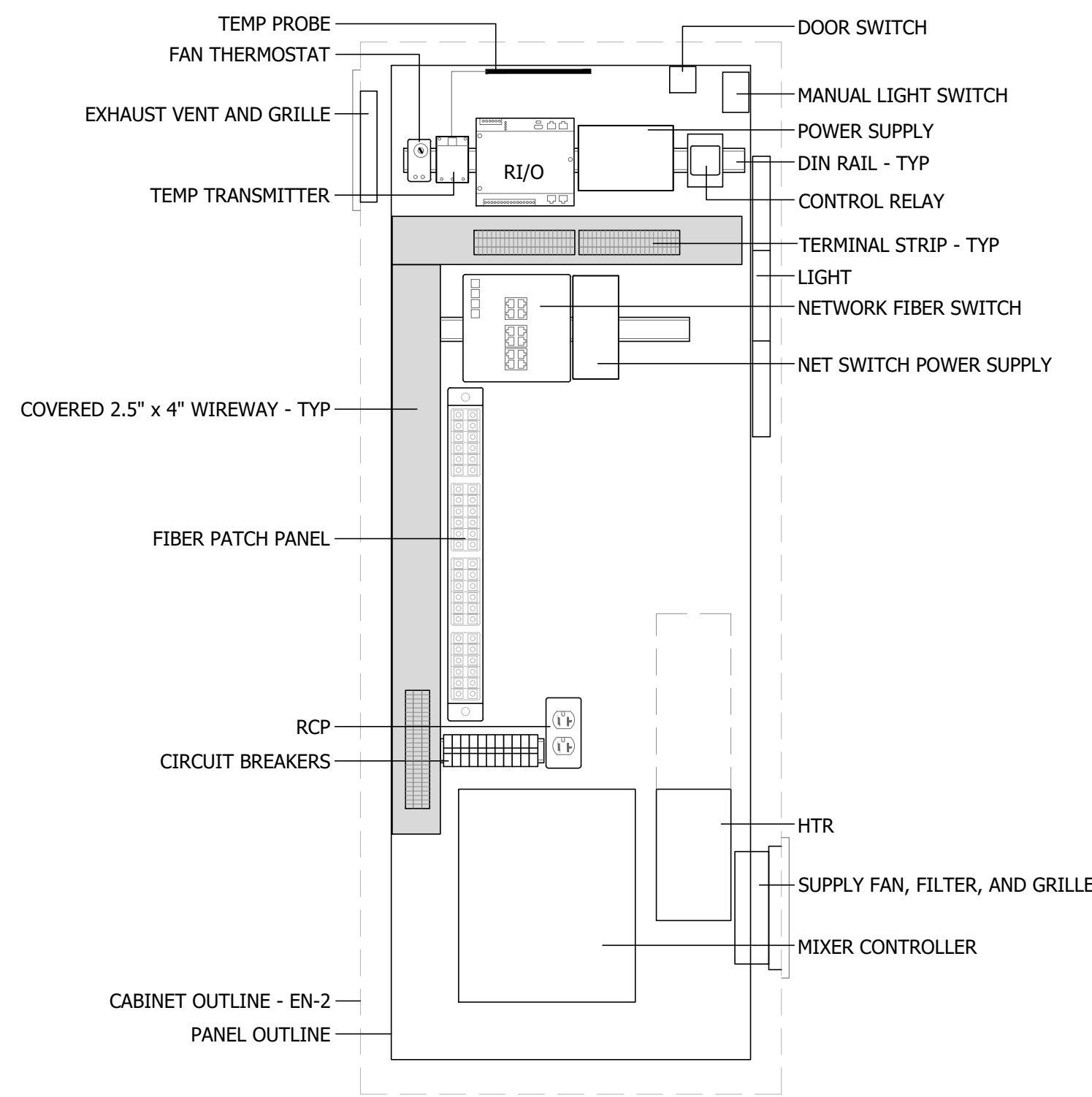
**6 DIAGRAM**  
SCP5 POWER  
NO SCALE



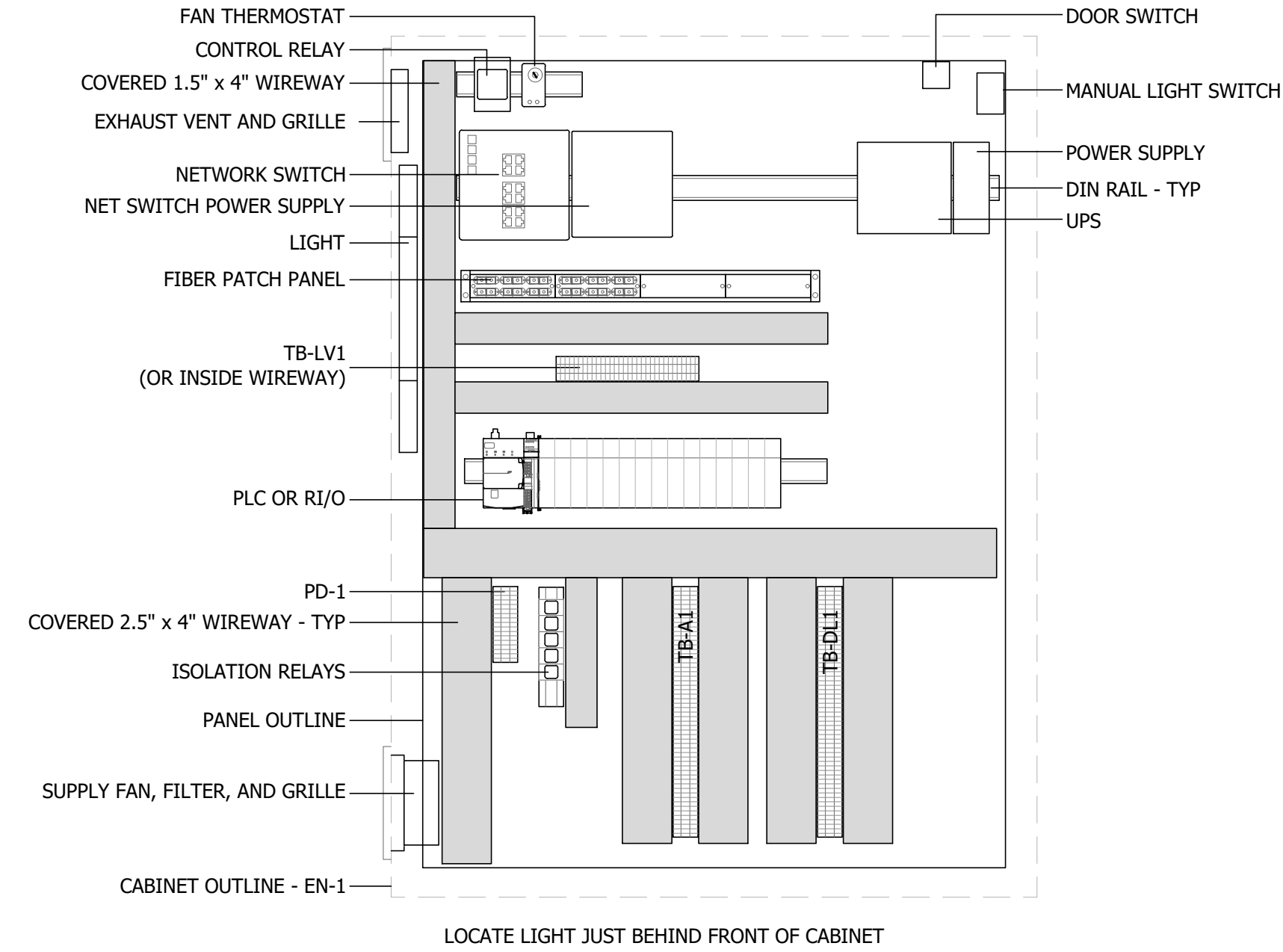
**3 DETAIL**  
SCP5 ENCLOSURE  
1/2" = 1'-0"



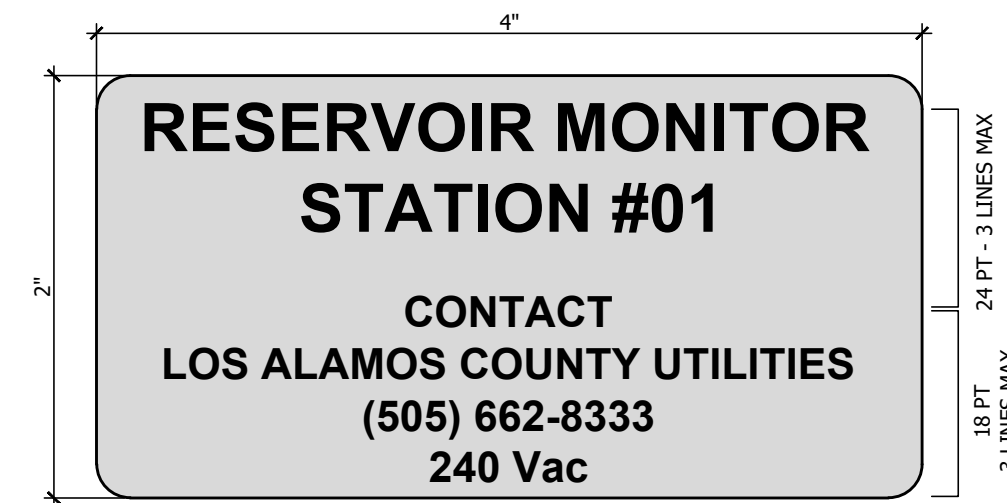
**1 DETAIL**  
SCP1 - SCP4 ENCLOSURE  
1/2" = 1'-0"



**4 DETAIL**  
SCP5 INTERIOR  
1 1/2" = 1'-0"



**2 DETAIL**  
SCP1 - SCP4 INTERIOR  
1 1/2" = 1'-0"



ENGRAVED FILLED BLACK ON S/S - ALL FONTS SHALL BE ARIAL BOLD  
PROVIDE STATION NUMBER UNIQUE FOR EACH CABINET

**7 DETAIL**  
ADVISORY SIGN  
NO SCALE

**WILSON & COMPANY**  
2600 THE AMERICAN RD. SE SUITE 100  
RIO RANCHO, NM 87124  
PHONE: 505-898-8021  
FAX: 505-898-8501  
www.wilsonco.com

**AEA**  
CONSULTANTS  
ELECTRICAL ENGINEERING  
7401 HUNTERS LANE, SUITE C  
DALLAS, TEXAS 75248  
202.333.3310 AEA.NY.COM  
Copyright © by AEA PC  
3/11/2026

3/11/2026  
PAUL B. L. WETTER, P.E.  
NEW MEXICO  
3726  
REGISTERED PROFESSIONAL

PROJECT NAME  
**LAC JEMEZ MOUNTAIN  
REGIONAL FIRE  
PROTECTION SYSTEM  
PHASE 3**

REV.	DATE	DESCRIPTION	BY

PROJECT NO: 20-600-894-03  
DESIGNED BY: DLW  
DRAWN BY: DLW  
CHECKED BY: DLW  
DATE: 3/11/2026

SHEET TITLE  
**ELECTRICAL  
INSTRUMENTATION  
DETAILS**

SHEET NO:  
**E751**

NOTICE OF EXTENDED PAYMENT PROVISION:  
THIS CONSTRUCTION CONTRACT SPECIFICALLY PROVIDES FOR A PAYMENT  
LATER THAN 21 DAYS AFTER SUBMISSION OF AN UNDISPUTED REQUEST FOR  
PAYMENT. THIS CONTRACT ALLOWS THE OWNER TO MAKE PAYMENT WITHIN  
45 DAYS AFTER SUBMISSION OF AN UNDISPUTED REQUEST FOR PAYMENT.

## MATERIAL SCHEDULE

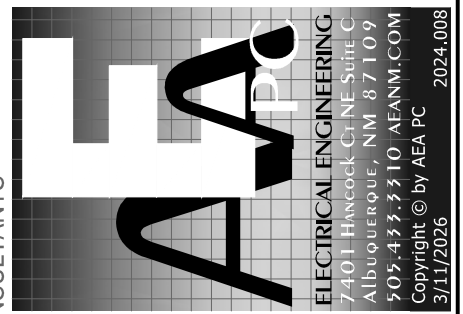
KEY	MANUFACTURER	MODEL NO.	DESCRIPTION	QUAN	NOTES
CR-01	SCHNEIDER ELECTRIC	8501-XDO40V53	CONTROL RELAY, 24 Vdc COIL, 2NO/2NC CONTACTS (CONVERTIBLE), 5 A 125 Vdc CONTACT RATING	1	
EN-1	nVent	CSD483612LG CP4836G	NEMA 12 ENCLOSURE, MILD STEEL, CONTINUOUS HINGE, 48"H x 36"W x 12"D, 3-POINT LATCH, CORBIN KEY LOCK, CONDUCTIVE MOUNTING PANEL	1	1
EN-2	nVent	A602418SSFSN4 CP6024G	NEMA 4X FREE STANDING ENCLOSURE, 304 STAINLESS STEEL, CONTINUOUS HINGE, 60"H x 24"W x 18"D, 3-POINT LATCH, CORBIN KEY LOCK, CONDUCTIVE MOUNTING PANEL	1	2
FPP-1	OPTICAL CABLE CORP.	RTS1U-HD4APB +(4) 61125MDLC	FIBER OPTIC PATCH PANEL, RACK MOUNT, 48 PORT, 1RU SPACE, (4) MODULAR 12 PORT TYPE LC ADAPTER PLATES, BLACK	1	
HTR-1	nVent	DAH8002B	ELECTRIC HEATER, 800W, 240Vac, AL HOUSING, THERMOSTATIC CONTROL 0-100°F, SET AT 40°F	1	2
LI-1	nVent	LED24V15	LED LIGHT BAR, ADJ ANGLE, 24 Vdc, 470 LUMEN MIN, #LED24CORD (1), #LDSWITCH72 (1)	1	
NS-1	CISCO	IE3400-8P25-E + PWR-IE65W-PC-DC + (2) GLC-FE-100LX	CATALYST INDUSTRIAL NETWORK SWITCH, 2 GIGABIT ETHERNET (GE) UPLINK PORTS (100/1000 Mbps), 8 FAST ETHERNET PORTS (RJ-45 COPPER 10/100/1000 Mbps), PoE/PoE+, 54 Vdc 35W, DIN RAIL MOUNT, 3.8 lb, 100BASE-LX10 10 km SFP	1	
PLC-1	ALLEN BRADLEY	5069-L330ER	PLC, COMPACTLOGIX, 24 Vdc, USB PORT, (2) ETHERNET PORTS, 3 MB RAM, 8 MB OPTIONAL RAM, MAX 31 I/O MODULES, 8.5W, DIN RAIL MOUNT, REMOVABLE TERMINAL BLOCK, 1.7 lb, I/O MODULES AS NEEDED	1	
PS-1	PHOENIX CONTACT		UPS/POWER SUPPLY	1	
SL-1	nVent	ALFSWD	DOOR SWITCH, DOOR ACTIVATED	1	
SL-2	nVent	ALFSWM	LIGHT SWITCH, MANUAL	1	
SPD-1	PHOENIX CONTACT	2902577	SURGE PROTECTION DEVICE, DIN RAIL MOUNTING, 120 Vac, 20 kA PEAK, SINE WAVE TRACKING, -54 dB EMI/RFI FILTERING, 25 kA SCCR, DRY ALARM CONTACTS	1	
ST-1	nVent	ATEMNO	FAN THERMOSTAT, ADJUSTABLE, CLOSE-ON-RISE (NO), SET AT 75°F	1	
TT-1			TEMP TRANSMITTER, 24 Vdc, 4-20ma, DIN RAIL MOUNT	1	
VF-1	nVent	TFP41UL12	COOLING FAN PACKAGE, 120 Vac, 15 W, 55 CFM, COMPOSITE HOUSING, PLENUM, GUARD, AND GRILLE, DISPOSABLE FILTER	1	1
VF-2	nVent	TFP4UL12	EXHAUST PACKAGE, COMPOSITE HOUSING, PLENUM, AND GRILLE, DISPOSABLE FILTER	1	1
VF-3	nVent	TFP61UL12	COOLING FAN PACKAGE, 120 Vac, 32 W, 140 CFM, COMPOSITE HOUSING, PLENUM, GUARD, AND GRILLE, DISPOSABLE FILTER	1	2
VF-4	nVent	TFP6UL12	EXHAUST PACKAGE, COMPOSITE HOUSING, PLENUM, AND GRILLE, DISPOSABLE FILTER	1	2
XF-1	SCHNEIDER ELECTRIC	7400-4X7540FSS	NEMA 4X ENCLOSED RESIN ENCAPSULATED TRANSFORMER, SINGLE PHASE, 480V-240/120V, 7.5 Kva	1	2

**NOTES**  
 GENERAL  
 ALL ITEMS ARE NO SUBSTITUTION - QUANTITIES ARE PER SCP

NUMBERED  
 1 SCP1 - SCP4 ONLY  
 2 SCP5 ONLY

**WILSON & COMPANY**

2800 THE AMERICAN RD. SE SUITE 100  
 RIO RANCHO, NM 87124  
 PHONE: 505-898-6021  
 FAX: 505-898-6501  
 www.wilsonco.com



PROJECT NAME

**LAC JEMEZ MOUNTAIN  
 REGIONAL FIRE  
 PROTECTION SYSTEM  
 PHASE 3**

REV.	DATE	DESCRIPTION	BY

PROJECT NO: 20-600-894-03  
 DESIGNED BY: DLW  
 DRAWN BY: DLW  
 CHECKED BY: DLW  
 DATE: 3/11/2026

SHEET TITLE  
**ELECTRICAL  
 INSTRUMENTATION  
 SCHEDULES**

SHEET NO:  
**E761**

NOTICE OF EXTENDED PAYMENT PROVISION:  
 THIS CONSTRUCTION CONTRACT SPECIFICALLY PROVIDES FOR A PAYMENT LATER THAN 21 DAYS AFTER SUBMISSION OF AN UNDISPUTED REQUEST FOR PAYMENT. THIS CONTRACT ALLOWS THE OWNER TO MAKE PAYMENT WITHIN 45 DAYS AFTER SUBMISSION OF AN UNDISPUTED REQUEST FOR PAYMENT.

008EAC-L.DWG