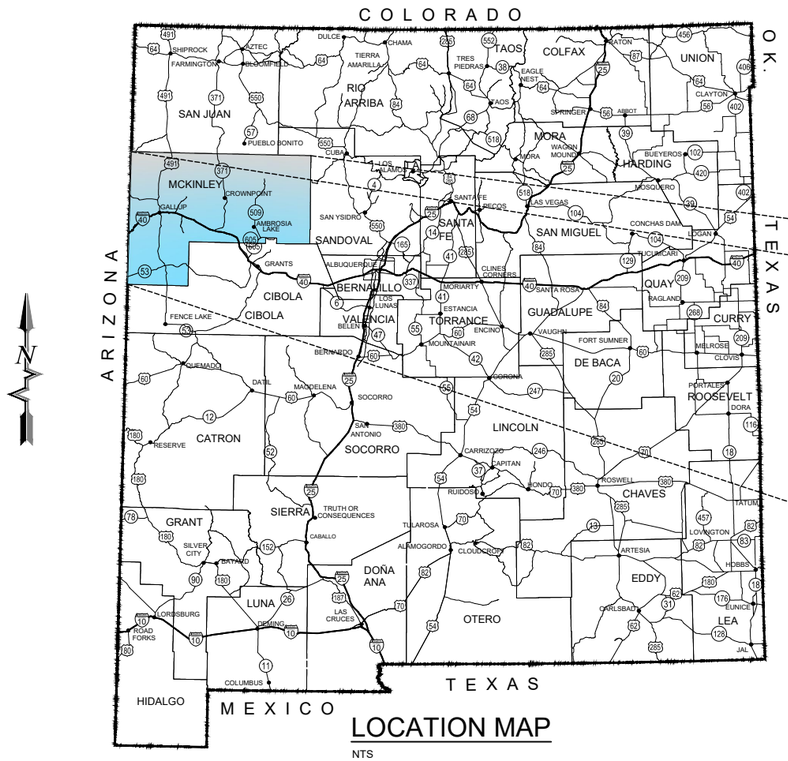
TOHATCHI EAST FLATS

INDIVIDUAL WELLS

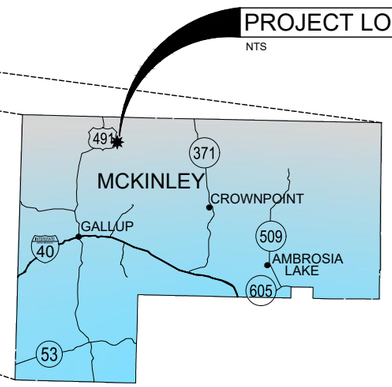
TOHATCH, NEW MEXICO

January 2022

PROJECT DESCRIPTION:
CONSTRUCTION OF 9 WELLS AND ASSOCIATED WATER SERVICES LINES



LOCATION MAP
NTS



VICINITY MAP
NTS

DRAWING INDEX

SHEET NO.	SHEET TITLE
G-1	COVER SHEET AND DRAWING INDEX
G-2	GENERAL NOTES AND LEGEND
G-3	PROJECT SITE PLAN
C-1	INDIVIDUAL INSTALLATION DETAIL HOMES 1 & 2
C-2	INDIVIDUAL INSTALLATION DETAIL HOMES 3 & 4
C-3	INDIVIDUAL INSTALLATION DETAIL HOME 5
C-4	INDIVIDUAL INSTALLATION DETAIL HOMES 6 & 7
C-5	INDIVIDUAL INSTALLATION DETAIL HOMES 8 & 9
C-6	INDIVIDUAL INSTALLATION DETAIL HOMES 10 & 11
DT-1	WELL DESIGN DETAIL
DT-2	MULTI RESIDENCE VAULT & YARD HYD. DETAILS
DT-3	SINGLE RESIDENCE VAULT
E-1 TO E-12	ELECTRICAL DETAILS

THESE DETAILED PLANS AND SPECIFICATIONS WERE PREPARED UNDER MY DIRECTION AND SUPERVISION ON BEHALF OF SOUDER, MILLER & ASSOCIATES.

12/27/21
COLIN DALY, P.E. DATE
PROJECT MANAGER

THE SEAL AND SIGNATURE OF THE PROFESSIONAL REGISTRANT IDENTIFIED ON THIS COVER SHEET DOES NOT SUGGEST RESPONSIBLE CHARGE FOR ALL SHEETS CONTAINED WITHIN THIS PACKAGE; PLAN SHEETS NOT SIGNED AND SEALED ARE NOT THE RESPONSIBILITY OF THE PROFESSIONAL REGISTRANT IDENTIFIED ON THIS COVER SHEET. PLEASE REFER TO PROFESSIONAL REGISTRANTS IDENTIFIED ON INDIVIDUAL PLAN SHEETS.

811 Know what's below. Call before you dig.

COLIN M. DALY NEW MEXICO 20923 12/27/2021 PROFESSIONAL ENGINEER

Rev #	Date	Description	By	Chk'd

SOUDER, MILLER & ASSOCIATES
401 West Broadway Avenue
Farmington, NM 87401
Engineering • Environmental Geomatics
Phone (505) 325-7535 Toll-Free (800) 519-0098 Fax (505) 326-0045
www.soudermiller.com
Serving the Southwest & Rocky Mountains
Albuquerque, Carlsbad, Farmington, Hobbs, Las Cruces, Roswell, Santa Fe, NM
Cortez, Denver, Grand Junction, CO - Safford, AZ - El Paso, TX - Moab, UT

GENERAL NOTES

GENERAL

1. SOUDER, MILLER AND ASSOCIATES SHALL HEREINAFTER BE KNOWN AS THE ENGINEER. THERE WILL BE A PERSON PROVIDED BY THE ENGINEER THAT WILL ACT AS A CONSTRUCTION OBSERVER WHO WILL BE THE CONTACT BETWEEN THE CONTRACTOR AND THE ENGINEER.
2. THE ENGINEER WAIVES ANY AND ALL RESPONSIBILITY AND IS NOT LIABLE FOR PROBLEMS THAT ARISE FROM FAILURE TO FOLLOW THESE DRAWINGS, SPECIFICATIONS AND THE DESIGN INTENT THEY CONVEY OR FOR PROBLEMS THAT ARISE FROM FAILURE TO OBTAIN AND/OR FOLLOW THE ENGINEER'S GUIDANCE WITH RESPECT TO ANY ERRORS, OMISSIONS, INCONSISTENCIES, AMBIGUITIES OR CONFLICTS.
3. ALL SCALES ARE BASED ON 11"X17" SHEET SIZE.

CONSTRUCTION REQUIREMENTS

4. CONTACT "NEW MEXICO ONE CALL" AT 1-800-321-2537, THREE (3) WORKING DAYS IN ADVANCE OF CONSTRUCTION FOR UTILITY DEMARCATION.
5. ALL WATERLINES SHALL BE INSTALLED TO A MINIMUM COVER OF FORTY-EIGHT (48) INCHES
6. THE CONTRACTOR IS REQUIRED TO PROVIDE DUST AND EROSION PROTECTION TO INHIBIT DUST, WIND, AND AIR SEDIMENT MOVEMENT OFFSITE, AS PART OF GRADING WORK, THROUGHOUT CONSTRUCTION IN ACCORDANCE WITH BEST MANAGEMENT PRACTICES.
7. CONTRACTOR MUST CONTACT AND COORDINATE AS NECESSARY WITH LOCAL ELECTRIC SERVICE PROVIDER REGARDING REQUIREMENTS FOR PIPELINE CONSTRUCTION WITHIN 20 (TWENTY) FEET OF ELECTRIC POLES.
8. THE CONTRACTOR SHALL BE RESPONSIBLE FOR PURCHASING, HAULING AND DISPOSAL OF WATER FOR THE DRILLING WORK. THE OWNER HAS INDICATED THAT WATER MAY BE AVAILABLE FROM A LOCAL WELL, SEE SPECIFICATIONS.

WELL CONSTRUCTION

9. WELL DESIGNS ARE PRELIMINARY AND MAY CHANGE ONCE CONSTRUCTION, SAMPLING AND TESTING OF THE FIRST BOREHOLE PROVIDES ADDITIONAL DATA. DATA GATHERED DURING THE DRILLING AND SURVEY OF EACH BOREHOLE MAY ALSO IMPACT CASING DESIGN. FINAL PRODUCTION PUMP AND APPURTENANCES SELECTION WILL BE BASED ON PUMP TEST RESULTS. FINAL WELL DESIGN FOR EACH PRODUCTION WELL INCLUDING ANY CHANGES TO QUANTITIES, DIMENSIONS OR EQUIPMENT MUST BE APPROVED BY THE ENGINEER PRIOR TO COMPLETION OF A PERMANENT PRODUCTION WELL. PAYMENT FOR WORK COMPLETED WITHOUT APPROVAL OF THE ENGINEER CANNOT BE GUARANTEED.
10. THE CONTRACTOR SHALL BE RESPONSIBLE FOR PREVENTING ENTRY OF UNWANTED OBJECTS AND CONTAMINANTS INTO THE WELL, WELL CASING, TRANSDUCER PIPE, OR ANNULAR SPACE AT ALL TIMES.

CONSTRUCTION PERMITS

11. ALL PERMITS REQUIRED FOR CONSTRUCTION, INCLUDING ALL IRRIGATION DISTRICT, LOCAL, CITY, COUNTY, STATE, TRIBAL, AND FEDERAL PERMITS, ARE THE RESPONSIBILITY OF THE CONTRACTOR, UNLESS ALREADY PROVIDED BY THE ENGINEER IN THE CONTRACT DOCUMENTS.
12. ALL PERMIT FEES ARE PAYABLE BY THE CONTRACTOR, AND SHALL BE CONSIDERED INCIDENTAL TO THE CONSTRUCTION UNLESS A SPECIFIC BID ITEM EXISTS FOR THE PERMIT WORK.
13. NO TIME EXTENSIONS WILL BE ALLOWED DUE TO THE NORMAL PERMITTING PROCESSES.
14. ANY FINES ASSOCIATED WITH NOT OBTAINING NECESSARY PERMITS ARE THE RESPONSIBILITY OF THE CONTRACTOR.
15. IT IS THE ENGINEER'S RECOMMENDATION THAT ALL BIDDERS CONTACT THE APPROPRIATE AGENCIES PRIOR TO BIDDING TO ENSURE THAT ALL APPROPRIATE FEES, COSTS, AND SCHEDULES FOR THE PERMITS REQUIRED ARE KNOWN PRIOR TO BIDDING.
    THE CONTRACTOR IS RESPONSIBLE FOR COMPLYING WITH THE TERMS OF THE PERMITS RELATED TO CONSTRUCTION. COST OF COMPLIANCE WITH THESE PERMITS SHALL BE CONSIDERED INCIDENTAL TO CONSTRUCTION, AND NO ADDITIONAL PAYMENT SHALL BE MADE THEREFOR.

UTILITY LOCATION

16. THE CONTRACTOR IS SOLELY RESPONSIBLE FOR UTILITY LOCATION, PROTECTION AND VERIFICATION PER STATE LAW. THE CONTRACTOR SHALL COORDINATE WITH ALL UTILITY COMPANIES AND THE ENGINEER WITH REGARD TO RELOCATING, ADJUSTING, REPLACING AND/OR REPAIRING UTILITIES DURING CONSTRUCTION. ADDITIONALLY, THE CONTRACTOR SHALL FIELD VERIFY THE HORIZONTAL AND VERTICAL LOCATION OF ALL EXISTING UTILITIES AND OTHER OBSTRUCTIONS IN RELATION TO THE PROPOSED IMPROVEMENTS. SHOULD A CONFLICT EXIST, THE CONTRACTOR SHALL NOTIFY THE ENGINEER IMMEDIATELY SO THAT THE CONFLICT CAN BE RESOLVED WITH MINIMAL DELAY. DELAYS CAUSED OR COSTS INCURRED BECAUSE OF UTILITY CONFLICTS OR OTHER OBSTRUCTIONS SHALL BE CONSIDERED INCIDENTAL TO THE CONTRACT.
17. UTILITIES SHOWN IN THESE CONSTRUCTION PLANS ARE SHOWN IN THEIR APPROXIMATE LOCATION ONLY, AND SHALL NOT BE RELIED UPON BY THE CONTRACTOR. FIELD MARKS MADE BY THE INDIVIDUAL UTILITIES SHALL OVERRIDE ANY LOCATION SHOWN IN THESE PLANS. UTILITIES LOCATED BY THE CONTRACTOR SHALL BE ANNOTATED AND THE LOCATION IDENTIFIED IN THE CONTRACTOR'S AS-BUILTS KEPT AND MAINTAINED ONSITE.
18. THE EXISTING UTILITIES, STRUCTURES, AND APPURTENANCES SHOWN ON THESE PLANS ARE SHOWN FOR INFORMATION ONLY. THE ENGINEER AND CONTRACTOR SHALL PERFORM A FIELD REVIEW OF THE PROPOSED WORK AFTER EXISITNG UTILITIES HAVE BEEN LOCATED AND TWO WEEKS PRIOR TO COMMENCEMENT OF CONSTRUCTION TO ALLOW APPROPRIATE TIME FOR REDESIGN IF NECESSARY. ALL MODIFICATIONS TO THE LOCATION OF IMPROVEMENTS MUST BE APPROVED BY THE ENGINEER. ANY CONSTRUCTION DELAYS CAUSED BY THE CONTRACTOR'S FAILURE TO PERFORM THE FIELD REVIEW, OR BY THE CONTRACTOR'S FAILURE TO NOTIFY THE ENGINEER OF ANY CONFLICTS TWO WEEKS PRIOR TO CONSTRUCTION SHALL BE DEEMED TO BE DELAYS CAUSED BY THE CONTRACTOR, AND THE CONTRACT TIME WILL NOT BE EXTENDED FOR SUCH DELAYS.
19. THE CONTRACTOR SHALL BE REQUIRED TO SUBMIT A COMPREHENSIVE CONSTRUCTION SEQUENCE AND SCHEDULE PRIOR TO COMMENCEMENT OF CONSTRUCTION THAT TAKES INTO ACCOUNT THE FIELD LOCATIONS OF EXISTING UTILITIES AND ANY CONFLICTS WITH THE PROPOSED IMPROVEMENTS.
20. THE CONTRACTOR SHALL BE RESPONSIBLE FOR COORDINATING WITH THE OWNER, ENGINEER AND POWER COMPANY FOR ANY ELECTRICAL UPGRADES REQUIRED FOR THE PROJECT. THE CONTRACTOR SHALL BEGIN THIS COORDINATION EFFORT WITH SUFFICIENT TIME IN ADVANCE OF CONSTRUCTION TO AVOID DELAYS. THE CONTRACTOR SHALL MAINTAIN ALL EXISTING ELECTRICAL SERVICES THROUGHOUT DEMOLITION AND CONSTRUCTION.

EXISTING HOMEOWNER FACILITIES

21. THROUGHOUT THE LIFE OF THE PROJECT, THE CONTRACTOR SHALL KEEP THE EXISTING CISTERN SYSTEM OPERATING. THE CONTRACTOR SHALL REPORT WATER SHUTOFFS TO THE ENGINEER THREE (3) OR MORE DAYS IN ADVANCE OF THE SHUT-OFFS. RESIDENTS SHALL BE CONTACTED BEFORE ANY DISCONNECTION OF WATER SERVICE. ANY INTERRUPTION OF WATER SERVICE SHALL BE KEPT TO THE MINIMUM LENGTH OF TIME POSSIBLE.
22. THE EXISTING CISTERN SYSTEM IS TO REMAIN OPERATIONAL UNTIL THE NEW SYSTEM IS ACCEPTED BY THE OWNER AND ANY DAMAGE TO THE EXISTING SYSTEM SHALL BE IMMEDIATELY REPAIRED BY CONTRACTOR.

PROTECTION OF EXISTING CONDITIONS

23. THE CARE AND PROTECTION OF ALL OTHER STRUCTURES, FENCING, LANDSCAPING, UTILITIES, PAVEMENT, DRAINAGE, STRUCTURES AND OTHER APPURTENANCES IS THE RESPONSIBILITY OF THE CONTRACTOR. IF DAMAGED, LOST IN TRENCH, OR OTHERWISE DISTURBED, THESE ITEMS WILL BE REPAIRED OR REPLACED AT THE CONTRACTOR'S EXPENSE. WHERE TRENCHING BENEATH EXISTING UTILITY LINES OCCURS, THE CONTRACTOR WILL BE RESPONSIBLE FOR SUPPORTING THE LINE DURING CONSTRUCTION AND ENSURE THAT IT IS ADEQUATELY BACKFILLED AND COMPACTED.
24. THE CONTRACTOR IS RESPONSIBLE FOR MAKING THE NECESSARY ADJUSTMENTS IN THE COMPACTION EQUIPMENT OR OPERATION FOR COMPACTION REQUIREMENTS SO THAT UNDERGROUND UTILITIES AND PERMANENT STRUCTURES ARE NOT DAMAGED.
25. ALL IMPROVEMENTS (INCLUDING FENCES, DITCHES, DRIVEWAYS, LANDSCAPING, ORNAMENTS, ETC.) THAT ARE DISTURBED DURING CONSTRUCTION SHALL BE RETURNED TO THEIR ORIGINAL CONDITION OR BETTER. THE CONTRACTOR IS RESPONSIBLE FOR DOCUMENTING THE EXISTING CONDITIONS OF THE PROJECT SITE THROUGH VIDEO AS DESCRIBED IN THE PROJECT MANUAL.

PLAN CHANGES, AS-BUILTS, RECORD DRAWINGS

26. IF THERE IS A CONFLICT BETWEEN THE PLANS, SPECIFICATIONS AND/OR MANUFACTURER'S INSTRUCTIONS OR RECOMMENDATIONS FOR ANY DEVICE, PART, OR MATERIAL USED IN THE PROJECT, THE CONTRACTOR SHALL IMMEDIATELY NOTIFY THE ENGINEER, IN WRITING, FOR CLARIFICATION AT LEAST TWO WEEKS PRIOR TO CONSTRUCTION OF SAID DEVICE, PART, OR MATERIAL.
27. THE CONTRACTOR SHALL MAINTAIN AN UP-TO-DATE SET OF AS-BUILT PLANS FOR THE PROJECT. THESE PLANS SHALL BE KEPT CURRENT, WITHIN TWO WEEKS, AT ALL TIMES. THESE PLANS SHALL BE SUBJECT TO REVIEW BY THE ENGINEER THROUGHOUT THE PROJECT AND WILL BE REVIEWED BY THE ENGINEER FOR ACCURACY AND COMPLETENESS AT LEAST ONCE EVERY 30 DAYS. PAYMENT MAY BE WITHHELD UNTIL AS-BUILT PLANS ARE CURRENT. THE CONTRACTOR SHALL PHOTOGRAPH THE CONSTRUCTION AND AREA OF DISTURBANCE ON A DAILY BASIS. THESE PHOTOS, A LOG OF THE DAILY PHOTOS AND THREE (3) SETS OF THE FINAL AS-BUILT PLANS SHALL BE SUBMITTED TO THE ENGINEER PRIOR TO FINAL PAYMENT.

CONSTRUCTION DEBRIS/DISPOSAL

28. THE CONTRACTOR SHALL PROVIDE AN AREA TO STORE CONSTRUCTION DEBRIS WHERE IT WILL NOT BE A NUISANCE. ALL DEBRIS SHALL BE CONTAINED IN SUCH A MANNER THAT WILL PREVENT SCATTERING. ALL DEBRIS, INCLUDING TREES AND UNDERGROWTH, SHALL BE DISPOSED OF PROPERLY WITHIN A PROPERLY PERMITTED LANDFILL. ALL CONSTRUCTION DEBRIS SHALL BE REMOVED FROM SITE PRIOR TO SUBSTANTIAL COMPLETION.
29. UNSUITABLE MATERIAL FROM SITE GRADING AND REMOVAL OPERATIONS SHALL BE DISPOSED OF BY THE CONTRACTOR AND CONSIDERED INCIDENTAL.
30. ITEMS DESIGNATED FOR REMOVAL WITHOUT SALVAGE, UNSUITABLE CONSTRUCTION MATERIALS AND DEBRIS FROM CLEARING AND GRUBBING ARE TO BE PLACED IN AN ENVIRONMENTALLY SUITABLE DISPOSAL SITE SECURED AND COORDINATED BY THE CONTRACTOR, WITH THE APPROPRIATE REGULATORY AGENCIES' APPROVAL AND IN ACCORDANCE WITH THE SPECIFICATIONS FOR THIS PROJECT. THE CONTRACTOR SHALL NOTIFY THE PROJECT ENGINEER, IN WRITING, OF THE DETAILS OF THE DISPOSAL OPERATIONS.
31. CONTRACTOR IS HEREBY GRANTED SALVAGE RIGHTS TO ANY AND ALL CONSTRUCTION DEBRIS (EXCEPT AS SHOWN IN THE PLANS AND SPECIFICATIONS), PROVIDED THE CONTRACTOR USES SAID DEBRIS IN A LAWFUL MANNER. A LIST OF ITEMS SALVAGED SHALL BE REPORTED IN WRITING TO THE ENGINEER AND THE OWNER PRIOR TO SALVAGE ITEMS LEAVING THE SITE. EQUIPMENT, PUMPS, ETC. SHALL BE SALVAGED BACK TO THE OWNER OR DISPOSED OF AS DIRECTED BY THE OWNER.
32. THE CONTRACTOR IS RESPONSIBLE FOR MAINTAINING ROAD AND DRIVEWAYS FREE AND CLEAR OF ANY DEBRIS THAT IS TRACKED TO AND FROM THE SITE.

SITE ACCESS AND PROTECTION

33. THE CONTRACTOR IS RESPONSIBLE FOR SECURING A LOCATION FOR THE STAGING AND STORAGE OF EQUIPMENT AND SUPPLIES. THE OWNER SHALL NOT BE RESPONSIBLE FOR THE THEFT, LOSS, OR DAMAGE OF ANY CONTRACTOR EQUIPMENT OR SUPPLIES.
34. THE CONTRACTOR SHALL PROVIDE BARRIERS OR FENCING OR DIRECT OVERSIGHT TO PREVENT UNAUTHORIZED ENTRY TO CONSTRUCTION AREAS AND TO PROTECT EXISTING FACILITIES AND ADJACENT PROPERTIES FROM DAMAGE. ACCESS TO EXISTING FACILITIES ADJACENT TO THE CONSTRUCTION AREA SHALL BE SAFELY MAINTAINED THROUGHOUT CONSTRUCTION UNLESS APPROVED BY THE ENGINEER AND UNLESS PROPER NOTICE HAS BEEN GIVEN TO AFFECTED PARTIES.

ENVIRONMENTAL AND HISTORICAL PRESERVATION

35. IN THE EVENT THE CONTRACTOR ENCOUNTERS ITEMS OF ENVIRONMENTAL, CULTURAL AND/OR HISTORICAL IMPORTANCE, THE ENGINEER AND OWNER SHALL BE NOTIFIED IMMEDIATELY AND WORK IN THE AREA SHALL IMMEDIATELY CEASE UNTIL THE CONTRACTOR RECEIVES WRITTEN AUTHORIZATION TO PROCEED FROM THE OWNER/ENGINEER.

SITE RESTORATION

36. SITE RESTORATION, INCLUDING TEMPORARY EROSION CONTROL PROVISIONS, IS A PREREQUISITE FOR PERIODIC AND FINAL PAYMENT.
37. ALL AREAS DISTURBED BY THE CONSTRUCTION ACTIVITIES OF THIS PROJECT SHALL BE RESTORED AND RE-GRADED IN A MANNER ACCEPTABLE TO THE OWNER, ENGINEER, AND LAND OWNER.

CONSTRUCTION STANDARDS

38. THE CONSTRUCTION OF THE PROJECT WILL BE GOVERNED BY THE FOLLOWING SPECIFICATIONS AND GUIDELINES COPIES OF WHICH SHALL BE KEPT AT THE CONSTRUCTION SITE BY THE CONTRACTOR AT ALL TIMES.
    A. THE NEW MEXICO STANDARD SPECIFICATIONS FOR PUBLIC WORKS CONSTRUCTION, LATEST EDITION.
    B. NEW MEXICO ENVIRONMENT DEPARTMENT'S RECOMMENDED STANDARDS FOR WATER AND WASTEWATER FACILITIES.
    C. WHERE NOT COVERED BY LOCAL ORDINANCE, THE "INTERNATIONAL BUILDING CODE" LATEST EDITION (IBC) FOR APPLICABLE WORK.
    D. OCCUPATIONAL SAFETY HEALTH ADMINISTRATION REGULATIONS FOR TRENCHING, SHORING & EXCAVATION.
    E. AWWA SPECIFICATIONS
    F. NAVAJO NATION STANDARDS
    G. SUPPLEMENTAL TECHNICAL SPECIFICATIONS. ANY CONFLICT BETWEEN THE REQUIREMENTS OF THE SPECIFICATIONS SHALL BE RESOLVED BY THE ENGINEER. IN GENERAL, THE MORE STRINGENT SPECIFICATION SHALL GOVERN.
39. ALL COMPONENTS, MATERIALS AND TREATMENT CHEMICALS THAT COME INTO CONTACT WITH DRINKING WATER SHALL BE CERTIFIED FOR CONFORMANCE TO ANSI/NSF STANDARD 60 OR 61, AS APPLICABLE.

CONSTRUCTION LIMITS

40. THE CONTRACTOR SHALL CONFINE HIS OPERATIONS TO THE CONSTRUCTION LIMITS OF THE PROJECT AND SHALL IN NO WAY ENCROACH ONTO ADJACENT PROPERTIES UNLESS LEGAL EASEMENTS ARE PROVIDED OR SECURED BY THE CONTRACTOR. ALL FILL AND CUT SLOPES FOR STRUCTURES SHALL BE SET BACK FROM THE PROPERTY LINE IN ACCORDANCE WITH THE INTERNATIONAL BUILDING CODE. THE CONTRACTOR WILL BE HELD RESPONSIBLE FOR ANY AGREEMENTS NECESSARY OR DAMAGE CAUSED BY CONSTRUCTION ACTIVITIES TO PUBLIC OR PRIVATE PROPERTY, INCLUDING UTILITIES.
41. THE LIMITS OF CONSTRUCTION AND LOCATIONS OF THE CONTRACTORS STAGING AREAS SHALL BE IDENTIFIED BY THE CONTRACTOR AND APPROVED BY THE ENGINEER. THE LIMITS OF CONSTRUCTION SHALL BE CLEARLY DELINEATED AND SHALL BE THE MINIMUM REQUIRED TO MAINTAIN ALL WORKERS IN A SAFE CONDITION, TO PROVIDE ACCESS, AND TO MEET OSHA REGULATIONS.

SAFETY

42. THE CONTRACTOR SHALL BE RESPONSIBLE FOR REPORTING AND CLEANUP OF SPILLS ASSOCIATED WITH PROJECT CONSTRUCTION AND SHALL REPORT AND RESPOND TO SPILLS OF HAZARDOUS MATERIALS SUCH AS GASOLINE, DIESEL, MOTOR OILS, SOLVENTS, CHEMICALS, TOXIC AND CORROSIVE SUBSTANCES, AND OTHER MATERIALS WHICH MAY BE A THREAT TO PUBLIC HEALTH OR THE ENVIRONMENT. REPORTS SHALL BE MADE IMMEDIATELY TO THE NEW MEXICO ENVIRONMENT DEPARTMENT EMERGENCY RESPONSE TEAM AT (505) 827-4308 OR (505) 470-3657, THE NATIONAL RESPONSE TEAM AT 1-800-424-8802 AND TO THE ENGINEER.
43. THE CONTRACTOR IS SOLELY RESPONSIBLE FOR JOB SITE SAFETY, AND FOR KNOWLEDGE AND COMPLIANCE WITH APPLICABLE OSHA STANDARDS. THE CONTRACTOR SHALL MAINTAIN ALL TRENCHES IN A SAFE CONDITION PROTECTING THE WORKERS AND THE GENERAL PUBLIC. TRENCH PROTECTION SHALL BE IN ACCORDANCE WITH APPLICABLE OSHA REGULATIONS. EXCAVATIONS SHALL BE SLOPED, BRACED, OR SHORED AS REQUIRED BY OSHA REGULATIONS. THE CONTRACTOR SHALL BE SOLELY RESPONSIBLE FOR THE SAFE HANDLING OF CONSTRUCTION EQUIPMENT AND MATERIALS TO AND FROM THE STAGING/STORAGE AREA AND FOR SITE SECURITY. THIS WORK SHALL BE CONSIDERED INCIDENTAL TO THE CONSTRUCTION AND NO ADDITIONAL COMPENSATION SHALL BE MADE THEREFOR.
44. PRIOR TO AND DURING CONSTRUCTION, ALL ACCESS ROADS SHALL BE SERVICEABLE AND MAINTAINED FOR FIRE PROTECTION AND EMERGENCY VEHICLE ACCESS.

SWPPP

45. A STORM WATER POLLUTION PREVENTION PLAN (SWPPP) IS REQUIRED FOR THE PROJECT. THE CONTRACTOR IS RESPONSIBLE FOR ITS PREPARATION AND IMPLEMENTATION PRIOR TO THE COMMENCEMENT OF CONSTRUCTION.
46. THE CONTRACTOR IS REQUIRED TO PROVIDE DUST AND EROSION CONTROL PROTECTION, AS A PART OF GRADING WORK, THROUGHOUT CONSTRUCTION IN ACCORDANCE W/ NPDES BEST MANAGEMENT PRACTICES AND PER THE PROJECT SWPPP, IF APPLICABLE. THE CONTRACTOR SHALL IMPLEMENT AND MAINTAIN THE NECESSARY SITE EROSION CONTROL DEVICES FOR INHIBITING DUST, WIND, AND AIR SEDIMENT MOVEMENT OFFSITE THROUGHOUT CONSTRUCTION.

CONTACT INFORMATION:

NAVAJO NATION (OWNER):

JASON JOHN (928) 729-4004

SOUDER, MILLER & ASSOCIATES (ENGINEER):

COLIN DALY, P.E (OFFICE) (505) 317-5098
(CELL) (734) 347-9866

NAVAJO TRIBAL UTILITY AUTHORITY (NTUA):
HEADQUARTERS (800) 528-5011

TOHATCHI CHAPTER:
(505) 733-2845

LEGEND
EXISTING

- WV — ISOLATION VALVE
- W — WATER VAULT
- WM — WATER METER
- HYDRANT
- POWER POLE
- GUY ANCHOR
- ELECTRICAL J-BOX
- TELEPHONE PEDESTAL
- STORM DRAIN INLET / OUTLET
- BUILDING
- CATTLE GUARD
- ROAD SIGN
- EXISTING DRAINAGE WASH
- GUARD RAIL
- PAVED ROAD EDGE
- DIRT ROAD EDGE
- FENCE
- OHE — OVERHEAD POWER LINE
- UGE — UNDERGROUND POWER LINE
- OHT — OVERHEAD TELEPHONE LINE
- UGFO — UNDERGROUND TELEPHONE LINE
- W — WATER LINE
- G — GAS LINE

LEGEND
PROPOSED

- W — WATER SERVICE LINE
- W — MAIN WATER LINE
- SS — SEWERLINE
- WELL
- CONTROL VAULT (SINGLE RESIDENCE)
- CONTROL VAULT (MULTI RESIDENCE)
- DOMESTIC STOP
- YARD HYDRANT
- DISTRIBUTION BOX
- SEPTIC TANK
- CISTERN TANK
- CLEAN OUT #1
- CLEAN OUT #2
- INFILTRATOR W/ INSPECTION PORT
- MARKER POST

ABBREVIATIONS

AASHTO	AMERICAN ASSOCIATION OF STATE HIGHWAY AND TRANSPORTATION OFFICIALS
A.C.	ASPHALTIC CONCRETE
ACI	AMERICAN CONCRETE INSTITUTE
AC.	ACRE
AC-FT.	ACRE FEET
AISC	AMERICAN INSTITUTE OF STEEL CONSTRUCTION
ALIGN.	ALIGNMENT
ALUM	ALUMINUM
AMSL	ABOVE MEAN SEA LEVEL
ANSI	AMERICAN NATIONAL STANDARDS INSTITUTE
APPROX.	APPROXIMATE
ARV	AIR RELEASE VALVE
ASTM	AMERICAN SOCIETY FOR TESTING AND MATERIALS
AWG	AMERICAN WIRE GAUGE
AWWA	AMERICAN WATER WORKS ASSOCIATION
BFV	BUTTERFLY VALVE
B.G.S.	BELOW GROUND SURFACE
BIA	BUREAU OF INDIAN AFFAIRS
BLDG	BUILDING
BLM	BUREAU OF LAND MANAGEMENT
BV	BALL VALVE
BVCE	BEGIN VERTICAL CURVE ELEVATION
BVCS	BEGIN VERTICAL CURVE STATION
CL	CENTERLINE
CFS	CUBIC FEET PER SECOND
CI	CAST IRON
CLR.	CLEARANCE
CMP	CORRUGATED METAL PIPE
COMM.	COMMUNICATION
CONC.	CONCRETE
CONST.	CONSTRUCTION
CONT.	CONTINUOUS
CONT.	CONTINUED
COR.	CORNER
COUP.	COUPLING
CP	CONTROL POINT
CTR	CENTER
CU	CUBIC
CY	CUBIC YARD
DI	DUCTILE IRON
DIA	DIAMETER
DIMS	DIMENSIONS
DR	DIMENSION RATIO
DW	DRIVEWAY
E	EAST
E	EASTING
EA.	EACH
ED.	EDITION
EG	EXISTING GRADE
ELEC.	ELECTRICAL
EL., ELEV.	ELEVATION
ELL	ELBOWBEND
EOP	EDGE OF PAVEMENT
EQ.	EQUAL
ESMT.	EASEMENT
EVCE	END VERTICAL CURVE ELEVATION
EVCS	END VERTICAL CURVE STATION
EX, EXIST.	EXISTING
FBE	FUSION BONDED EPOXY
FF	FINISHED FLOOR
FFE	FINISHED FLOOR ELEVATION
FG	FINISHED GRADE
FIG.	FIGURE
FL	FLANGE
FND.	FOUND
FNPT	FEMALE NATIONAL PIPE THREAD
FRP	FIBER REINFORCED PLASTIC
FT.	FEET
FV	FLUSH VALVE
GA.	GAUGE
GALV.	GALVANIZED
GI	GALVANIZED IRON
GPM	GALLONS PER MINUTE
GV	GATE VALVE
HDD	HORIZONTAL DIRECTIONAL DRILLING
HDPE	HIGH DENSITY POLYETHYLENE
HORIZ.	HORIZONTAL
HP	HORSE POWER
HT	HEIGHT
HWY	HIGHWAY
I.A.	INDIAN ALLOTMENT
I.D.	INNER DIAMETER
I.E.	THAT IS, FOR EXAMPLE
IHS	INDIAN HEALTH SERVICE
IN.	INCH
INV	INVERT
IPS	IRON PIPE SIZE
KSI	KILO POUNDS PER SQUARE INCH
LAT	LATITUDE
L, LEN	LENGTH
LF	LINEAR FEET
LT	LEFT
LONG	LONGITUDE
LVC	LENGTH VERTICAL CURVE
MANUF	MANUFACTURER
MAX.	MAXIMUM
MIL	ONE THOUSANDTHS OF AN INCH
MIN.	MINIMUM
M.J.	MECHANICAL JOINT
MNPT	MALE NATIONAL PIPE THREAD
M.S.L.	MEAN SEA LEVEL
N	NORTH
N	NORTHING
NEC	NATIONAL ELECTRICAL CODE
NG	NATURAL GAS
NM	NEW MEXICO
NMDOT	NEW MEXICO DEPARTMENT OF TRANSPORTATION
NMED	NEW MEXICO ENVIRONMENT DEPARTMENT
NN	NAVAJO NATION
NO.	NUMBER
NPT	NATIONAL PIPE THREAD
NTS	NOT TO SCALE
OAE	OR APPROVED EQUAL
O.C.	ON CENTER
O.C.E.W.	ON CENTER EACH WAY
O.D.	OUTER DIAMETER
OHE	OVERHEAD ELECTRICAL
PE	PLAIN END
P.G.P.	PER GRADING PLAN
PI	POINT OF INFLECTION
PROP	PROPOSED
PRV	PRESSURE REDUCING VALVE
PSF	POUNDS PER SQUARE FOOT
PSI	POUNDS PER SQUARE INCH
PVC	POLY VINYL CHLORIDE
PVI	POINT VERTICAL INFLECTION
PVT	PRIVATE
Q	FLOW
QTY.	QUANTITY
R	RADIUS
R-	RANGE
REF	REFERENCE
RO	ROUGH OPENING
ROW	RIGHT OF WAY
RT	RIGHT
S	SOUTH
SCH	SCHEDULE
SDR	STANDARD DIMENSION RATIO
SEC.	SECTION
SF	SAFETY FACTOR
SHT	SHEET
SPECS.	SPECIFICATIONS
SS	STAINLESS STEEL
STA	STATION
STD.	STANDARD
SW	SIDEWALK
T	TOWNSHIP
TBD	TO BE DETERMINED
TBR	TO BE REMOVED
TCE	TEMPORARY CONSTRUCTION EASEMENT
TDH	TOTAL DYNAMIC HEAD
TELE.	TELEPHONE
TEMP.	TEMPORARY
THK	THICK
TNT	NAVAJO TRIBAL TRUST
T.O.	TOP OF
TRANS	TRANSFORMER
TW	TOP OF WALL
TYP	TYPICAL
UGE	UNDERGROUND ELECTRIC
USGS	UNITED STATES GEOLOGICAL SURVEY
V	VOLUME
VB	VACUUM BREAKER
VERT.	VERTICAL
VLV	VALVE
VR	VACUUM RELIEF
W	WATER
W	WEST
W/	WITH
WL	WATERLINE
WP	WORKING PRESSURE
WT	WALL THICKNESS
WV	WATER VALVE
YDS	YARDS
Z	ZENITH

Rev #	Date	Description	By	Chkd

SOUDER, MILLER & ASSOCIATES
Engineering • Environmental • Geomatics
Serving the Southwest & Rocky Mountains
401 West Broadway Avenue
Farmington, NM 87401
Phone (505) 325-7535 Toll-Free (800) 519-0098 Fax (505) 326-0045
www.soudermiller.com

TOWN
CLIENT

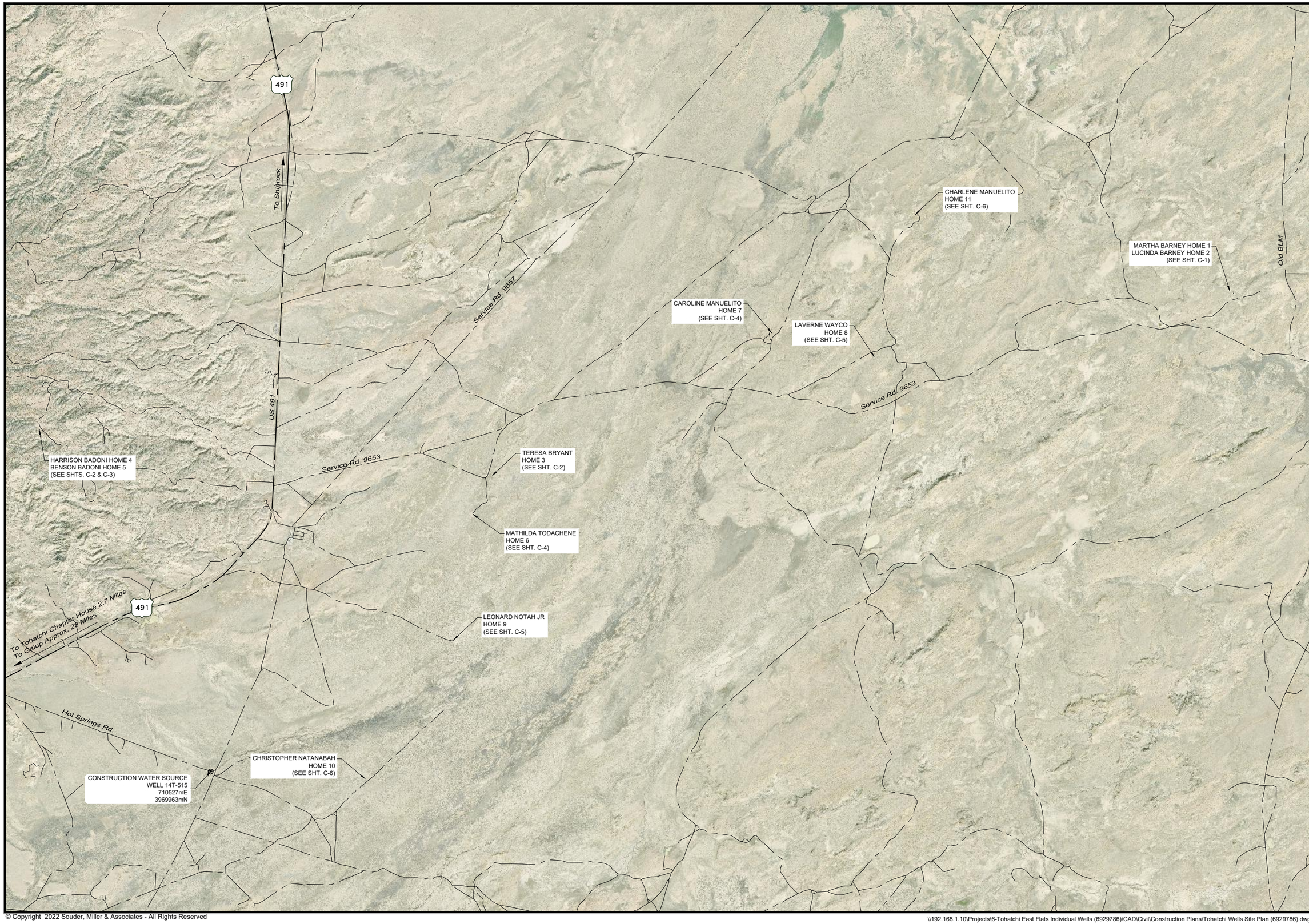
TOHATCHI EAST FLATS
INDIVIDUAL WELLS
TOHATCHI, NEW MEXICO
GENERAL NOTES AND LEGEND

COLIN M. DALY — NEW MEXICO — 20923 — 12/27/2021 — PROFESSIONAL ENGINEER

THIS DRAWING IS INCOMPLETE AND NOT TO BE USED FOR CONSTRUCTION UNLESS IT IS STAMPED, SIGNED AND DATED.

Designed	Drawn	Checked
CMD	AAV	JMG

Date: January 2022
Scale: Horiz: NONE Vert: N/A
Project No: 6929786
Sheet: G-2



Rev #	Date	Description	By	Chkd

SOUDER, MILLER & ASSOCIATES
Engineering • Environmental • Geomatics
Serving the Southwest & Rocky Mountains
401 West Broadway Avenue
Farmington, NM 87401
Phone (505) 325-7535 Toll-Free (800) 519-0098 Fax (505) 326-0045
www.soudermiller.com

CLIENT: TOWN

TOHATCHI EAST FLATS INDIVIDUAL WELLS TOHATCHI, NEW MEXICO PROJECT SITE PLAN

COLIN M. DALY
NEW MEXICO
20923
12/27/2021
PROFESSIONAL ENGINEER

THIS DRAWING IS INCOMPLETE AND NOT TO BE USED FOR CONSTRUCTION UNLESS IT IS STAMPED, SIGNED AND DATED

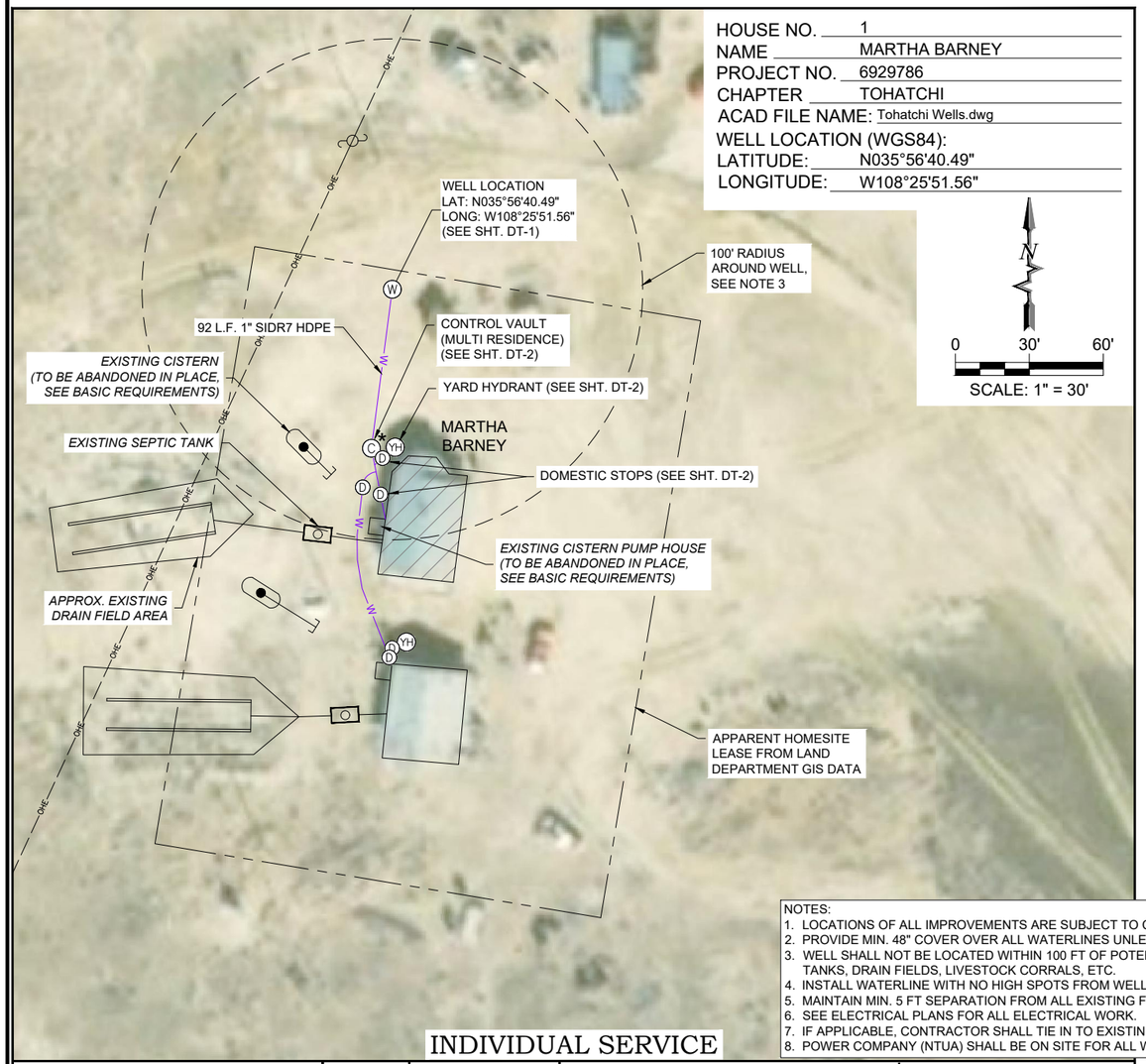
Designed	Drawn	Checked
CMD	AAV	JMG

Date: January 2022

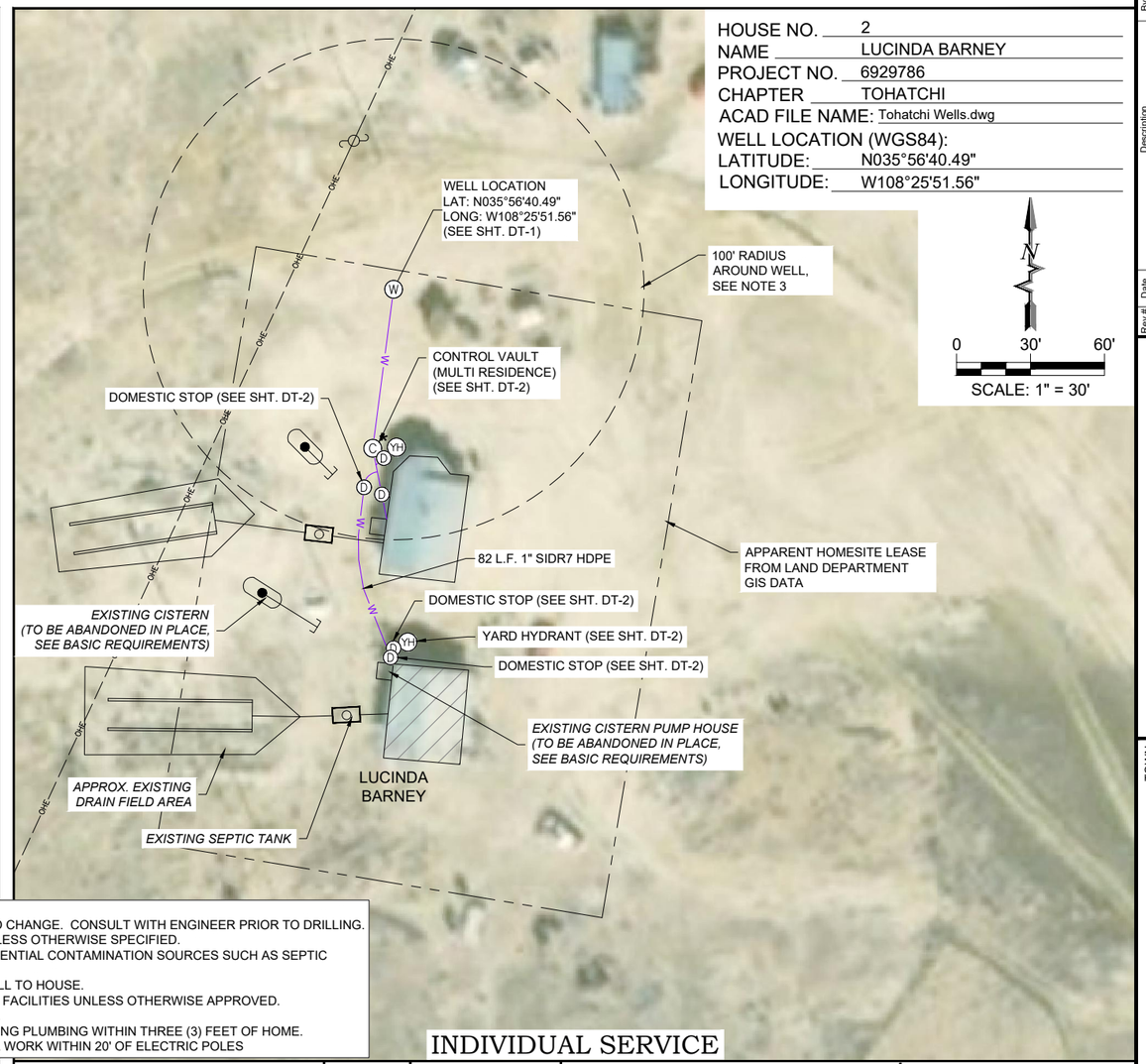
Scale: Horiz: 1" = 6000'
Vert: N/A

Project No: 6929786

Sheet: G-3



HOUSE NO. 1
NAME MARTHA BARNEY
PROJECT NO. 6929786
CHAPTER TOHATCHI
ACAD FILE NAME: Tohatchi Wells.dwg
WELL LOCATION (WGS84):
LATITUDE: N035°56'40.49"
LONGITUDE: W108°25'51.56"



HOUSE NO. 2
NAME LUCINDA BARNEY
PROJECT NO. 6929786
CHAPTER TOHATCHI
ACAD FILE NAME: Tohatchi Wells.dwg
WELL LOCATION (WGS84):
LATITUDE: N035°56'40.49"
LONGITUDE: W108°25'51.56"

NOTES:
1. LOCATIONS OF ALL IMPROVEMENTS ARE SUBJECT TO CHANGE. CONSULT WITH ENGINEER PRIOR TO DRILLING.
2. PROVIDE MIN. 48" COVER OVER ALL WATERLINES UNLESS OTHERWISE SPECIFIED.
3. WELL SHALL NOT BE LOCATED WITHIN 100 FT OF POTENTIAL CONTAMINATION SOURCES SUCH AS SEPTIC TANKS, DRAIN FIELDS, LIVESTOCK CORRALS, ETC.
4. INSTALL WATERLINE WITH NO HIGH SPOTS FROM WELL TO HOUSE.
5. MAINTAIN MIN. 5 FT SEPARATION FROM ALL EXISTING FACILITIES UNLESS OTHERWISE APPROVED.
6. SEE ELECTRICAL PLANS FOR ALL ELECTRICAL WORK.
7. IF APPLICABLE, CONTRACTOR SHALL TIE IN TO EXISTING PLUMBING WITHIN THREE (3) FEET OF HOME.
8. POWER COMPANY (NTUA) SHALL BE ON SITE FOR ALL WORK WITHIN 20' OF ELECTRIC POLES

INDIVIDUAL SERVICE

ITEM DESCRIPTION	SYMBOL	MATERIALS SIZE	MATERIALS MAT'L	HOUSE CORNER TIES (FT.) NW	NE	SW	SE		
WELL	Ⓦ	SEE WELL DETAIL							
CONTROL VAULT (SINGLE RESIDENCE)	Ⓒ	18" PVC							
CONTROL VAULT (MULTI RESIDENCE)	Ⓒ*	48" DIA. CONCRETE							
DOMESTIC STOP	Ⓓ	1"							
YARD HYDRANT	ⓎⒽ	1"							
DISTRIBUTION BOX (EX.)		CONCRETE							
SEPTIC TANK (EX.)		1000 GAL. CONCRETE							
CISTERN TANK (EX.)		1000 GAL. PE							
CLEAN OUT #1 (EX.)		4"	PVC						
CLEAN OUT #2 (EX.)		4"	PVC						
HOUSE SERVICE LINE	W	1" SIDR7	P.E.						
MAIN WATER LINE (EX.)	W	Varies	PVC						
SEWERLINE (EX.)	SS	4"	PVC						
INFILTRATOR W/ INSPECTION PORT (EX.)		4' x 3'	P.E.						
DWELLING, OTHER BLDGS									
MARKER POST		T-POST STEEL							

DRAWN BY: AAV
DATE: 1/5/2022
APPROVED BY: CMD
DATE: 1/5/2022

AS-BUILT: ☐

REMARKS:

DRAINFIELD INFORMATION
SOIL TYPE:
AREA _____ SQ. FT.
TOTAL LENGTH _____ FT.

SMA Engineering Environmental Geomatics

INDIVIDUAL SERVICE

ITEM DESCRIPTION	SYMBOL	MATERIALS SIZE	MATERIALS MAT'L	HOUSE CORNER TIES (FT.) NW	NE	SW	SE		
WELL	Ⓦ	SEE WELL DETAIL							
CONTROL VAULT (SINGLE RESIDENCE)	Ⓒ	18" PVC							
CONTROL VAULT (MULTI RESIDENCE)	Ⓒ*	48" DIA. CONCRETE							
DOMESTIC STOP	Ⓓ	1"							
YARD HYDRANT	ⓎⒽ	1"							
DISTRIBUTION BOX (EX.)		CONCRETE							
SEPTIC TANK (EX.)		1000 GAL. CONCRETE							
CISTERN TANK (EX.)		1000 GAL. PE							
CLEAN OUT #1 (EX.)		4"	PVC						
CLEAN OUT #2 (EX.)		4"	PVC						
HOUSE SERVICE LINE	W	1" SIDR7	P.E.						
MAIN WATER LINE (EX.)	W	Varies	PVC						
SEWERLINE (EX.)	SS	4"	PVC						
INFILTRATOR W/ INSPECTION PORT (EX.)		4' x 3'	P.E.						
DWELLING, OTHER BLDGS									
MARKER POST		T-POST STEEL							

DRAWN BY: AAV
DATE: 1/5/2022
APPROVED BY: CMD
DATE: 1/5/2022

AS-BUILT: ☐

REMARKS:

DRAINFIELD INFORMATION
SOIL TYPE:
AREA _____ SQ. FT.
TOTAL LENGTH _____ FT.

SMA Engineering Environmental Geomatics

Rev #	Date	Description	By	Chkd

SOUDER, MILLER & ASSOCIATES
Engineering • Environmental • Geomatics
Serving the Southwest & Rocky Mountains
401 West Broadway Avenue
Farmington, NM 87401
Phone (505) 325-7535 Toll-Free (800) 519-0098 Fax (505) 326-0045
www.soudermiller.com

CLIENT: TOWN

TOHATCHI EAST FLATS
INDIVIDUAL WELLS
TOHATCHI, NEW MEXICO
INDIVIDUAL INSTALLATION DETAIL HOMES 1 & 2

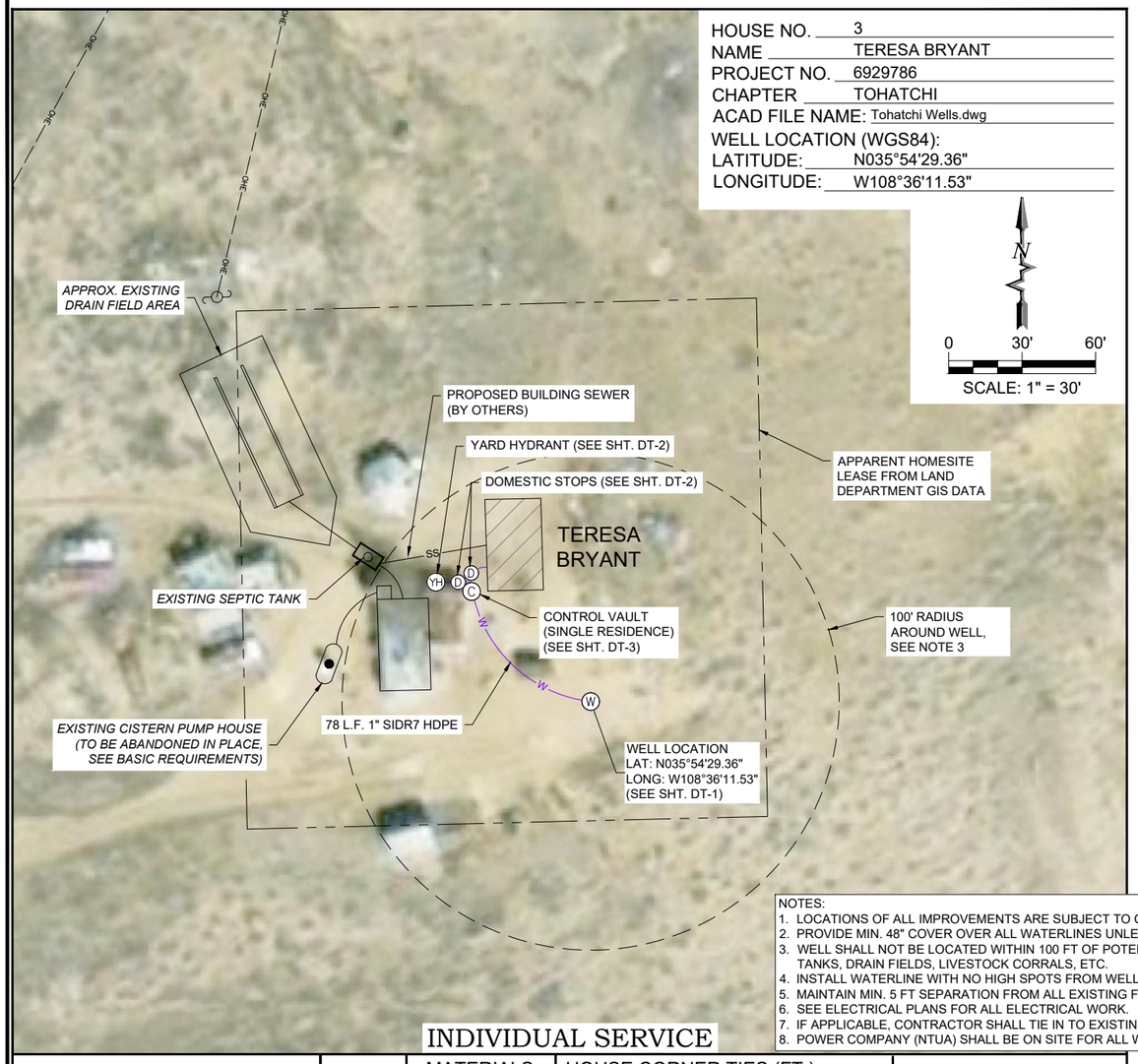
COLIN M. DALY
NEW MEXICO
20923
12/27/2021
PROFESSIONAL ENGINEER

THIS DRAWING IS INCOMPLETE AND NOT TO BE USED FOR CONSTRUCTION UNLESS IT IS STAMPED, SIGNED AND DATED

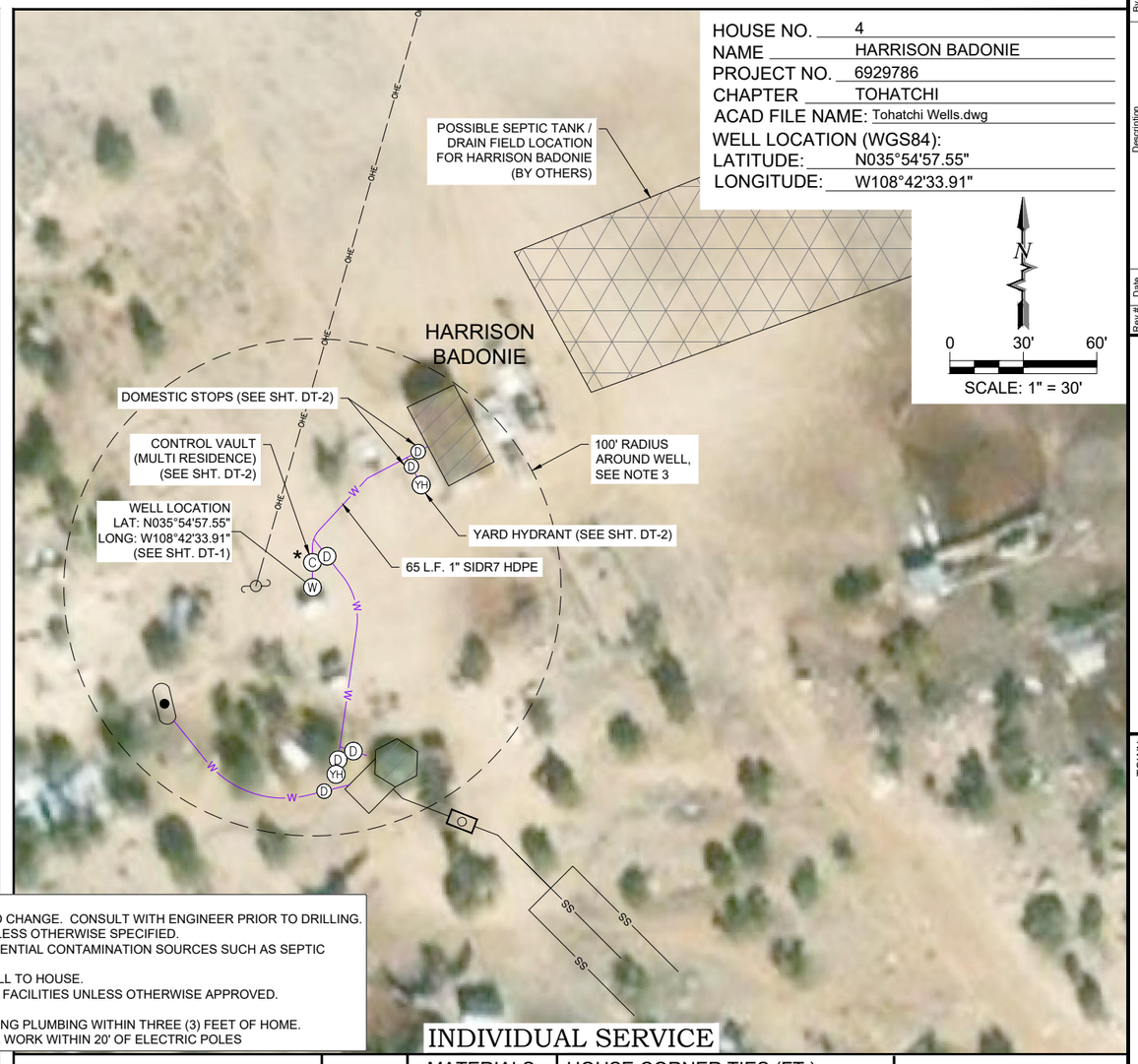
Designed	Drawn	Checked
CMD	AAV	JMG

Date: January 2022
Scale: Horiz: NONE Vert: N/A
Project No: 6929786
Sheet: C-1

HOUSE NO. 3
NAME TERESA BRYANT
PROJECT NO. 6929786
CHAPTER TOHATCHI
ACAD FILE NAME: Tohatchi Wells.dwg
WELL LOCATION (WGS84):
LATITUDE: N035°54'29.36"
LONGITUDE: W108°36'11.53"



HOUSE NO. 4
NAME HARRISON BADONIE
PROJECT NO. 6929786
CHAPTER TOHATCHI
ACAD FILE NAME: Tohatchi Wells.dwg
WELL LOCATION (WGS84):
LATITUDE: N035°54'57.55"
LONGITUDE: W108°42'33.91"



NOTES:
1. LOCATIONS OF ALL IMPROVEMENTS ARE SUBJECT TO CHANGE. CONSULT WITH ENGINEER PRIOR TO DRILLING.
2. PROVIDE MIN. 48" COVER OVER ALL WATERLINES UNLESS OTHERWISE SPECIFIED.
3. WELL SHALL NOT BE LOCATED WITHIN 100 FT OF POTENTIAL CONTAMINATION SOURCES SUCH AS SEPTIC TANKS, DRAIN FIELDS, LIVESTOCK CORRALS, ETC.
4. INSTALL WATERLINE WITH NO HIGH SPOTS FROM WELL TO HOUSE.
5. MAINTAIN MIN. 5 FT SEPARATION FROM ALL EXISTING FACILITIES UNLESS OTHERWISE APPROVED.
6. SEE ELECTRICAL PLANS FOR ALL ELECTRICAL WORK.
7. IF APPLICABLE, CONTRACTOR SHALL TIE IN TO EXISTING PLUMBING WITHIN THREE (3) FEET OF HOME.
8. POWER COMPANY (NTUA) SHALL BE ON SITE FOR ALL WORK WITHIN 20' OF ELECTRIC POLES

INDIVIDUAL SERVICE

ITEM DESCRIPTION	SYMBOL	MATERIALS SIZE	MAT'L	HOUSE CORNER TIES (FT.) NW	NE	SW	SE
WELL	W	SEE WELL DETAIL					
CONTROL VAULT (SINGLE RESIDENCE)	C	18" PVC					
CONTROL VAULT (MULTI RESIDENCE)	C*	48" DIA. CONCRETE					
DOMESTIC STOP	D	1"					
YARD HYDRANT	YH	1"					
DISTRIBUTION BOX (EX.)		CONCRETE					
SEPTIC TANK (EX.)		1000 GAL. CONCRETE					
CISTERN TANK (EX.)		1000 GAL. PE					
CLEAN OUT #1 (EX.)		4"	PVC				
CLEAN OUT #2 (EX.)		4"	PVC				
HOUSE SERVICE LINE	W	1" SIDR7	P.E.				
MAIN WATER LINE (EX.)	W	Varies	PVC				
SEWERLINE (EX.)	SS	4"	PVC				
INFILTRATOR W/ INSPECTION PORT (EX.)		4' x 3'	P.E.				
DWELLING, OTHER BLDGS							
MARKER POST		T-POST STEEL					

DRAINFIELD INFORMATION
SOIL TYPE: _____
AREA _____ SQ. FT.
TOTAL LENGTH _____ FT.

DRAWN BY: AAV
DATE: 1/5/2022
APPROVED BY: CMD
DATE: 1/5/2022
AS-BUILT: ☐
REMARKS: _____

SMA Engineering Environmental Geomatics

INDIVIDUAL SERVICE

ITEM DESCRIPTION	SYMBOL	MATERIALS SIZE	MAT'L	HOUSE CORNER TIES (FT.) NW	NE	SW	SE
WELL	W	SEE WELL DETAIL					
CONTROL VAULT (SINGLE RESIDENCE)	C	18" PVC					
CONTROL VAULT (MULTI RESIDENCE)	C*	48" DIA. CONCRETE					
DOMESTIC STOP	D	1"					
YARD HYDRANT	YH	1"					
DISTRIBUTION BOX (EX.)		CONCRETE					
SEPTIC TANK (EX.)		1000 GAL. CONCRETE					
CISTERN TANK (EX.)		1000 GAL. PE					
CLEAN OUT #1 (EX.)		4"	PVC				
CLEAN OUT #2 (EX.)		4"	PVC				
HOUSE SERVICE LINE	W	1" SIDR7	P.E.				
MAIN WATER LINE (EX.)	W	Varies	PVC				
SEWERLINE (EX.)	SS	4"	PVC				
INFILTRATOR W/ INSPECTION PORT (EX.)		4' x 3'	P.E.				
DWELLING, OTHER BLDGS							
MARKER POST		T-POST STEEL					

DRAINFIELD INFORMATION
SOIL TYPE: _____
AREA _____ SQ. FT.
TOTAL LENGTH _____ FT.

DRAWN BY: AAV
DATE: 1/5/2022
APPROVED BY: CMD
DATE: 1/5/2022
AS-BUILT: ☐
REMARKS: _____

SMA Engineering Environmental Geomatics

Rev #	Date	Description	By	Chkd

SOUDER, MILLER & ASSOCIATES
Engineering • Environmental • Geomatics
Serving the Southwest & Rocky Mountains
401 West Broadway Avenue
Farmington, NM 87401
Phone (505) 325-7535 Toll-Free (800) 519-0098 Fax (505) 326-0045
www.soudermiller.com

CLIENT TOWN
TOHATCHI EAST FLATS
INDIVIDUAL WELLS
TOHATCHI, NEW MEXICO
INDIVIDUAL INSTALLATION DETAIL HOMES 3 & 4

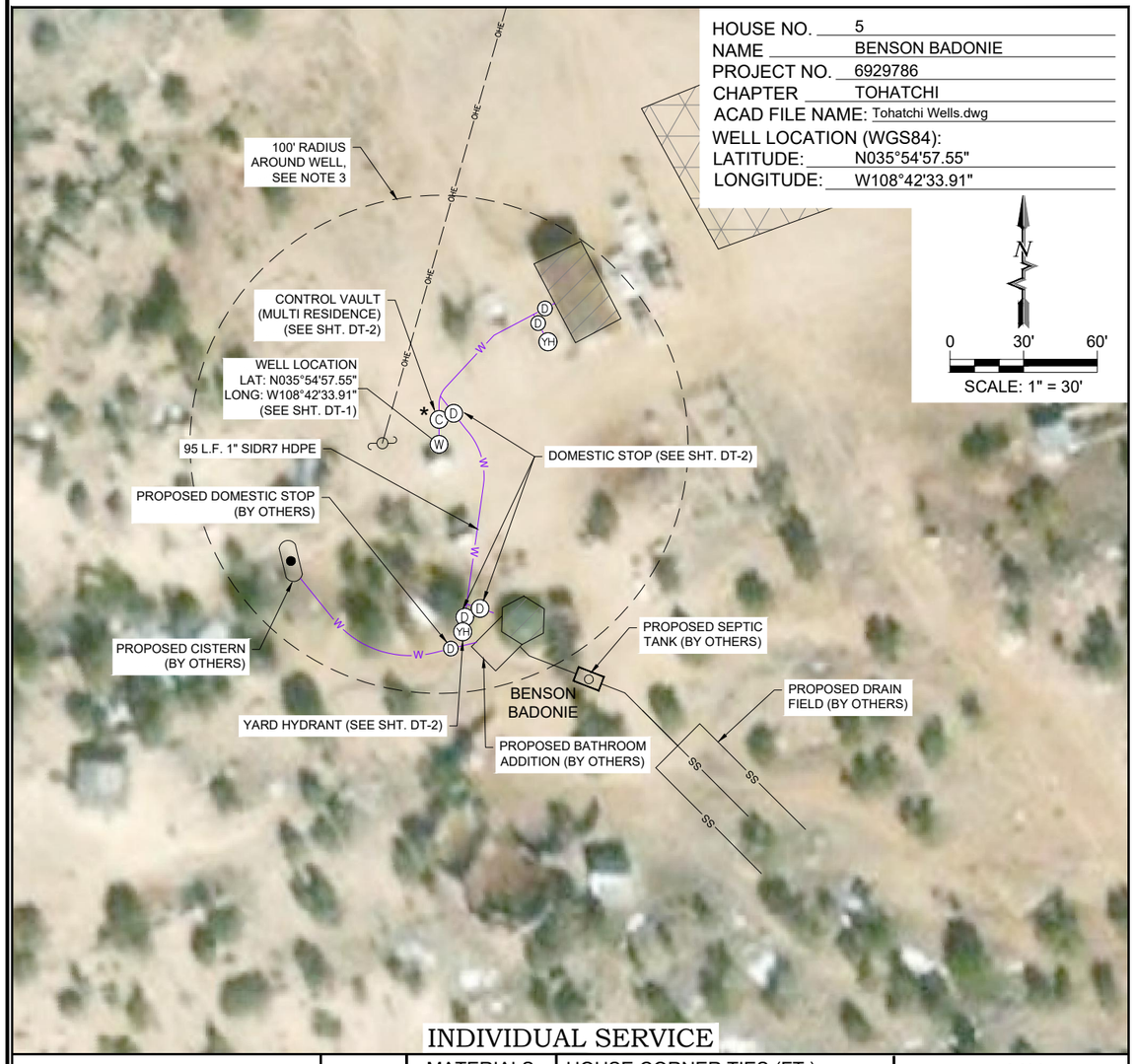
COLIN M. DALY NEW MEXICO 20923 12/27/2021 PROFESSIONAL ENGINEER

THIS DRAWING IS INCOMPLETE AND NOT TO BE USED FOR CONSTRUCTION UNLESS IT IS STAMPED, SIGNED AND DATED

Designed	Drawn	Checked
CMD	AAV	JMG

Date: January 2022
Scale: Horiz: NONE Vert: N/A
Project No: 6929786
Sheet: C-2

HOUSE NO. 5
NAME BENSON BADONIE
PROJECT NO. 6929786
CHAPTER TOHATCHI
ACAD FILE NAME: Tohatchi Wells.dwg
WELL LOCATION (WGS84):
LATITUDE: N035°54'57.55"
LONGITUDE: W108°42'33.91"



INDIVIDUAL SERVICE

ITEM DESCRIPTION	SYMBOL	MATERIALS SIZE	MATERIALS MAT'L
WELL	Ⓦ	SEE WELL DETAIL	
CONTROL VAULT (SINGLE RESIDENCE)	Ⓒ	18" PVC	
CONTROL VAULT (MULTI RESIDENCE)	Ⓒ*	48" DIA. CONCRETE	
DOMESTIC STOP	Ⓓ	1"	
YARD HYDRANT	ⓎⒽ	1"	
DISTRIBUTION BOX (EX.)	□	CONCRETE	
SEPTIC TANK (EX.)	○	1000 GAL. CONCRETE	
CISTERN TANK (EX.)	●	1000 GAL. PE	
CLEAN OUT #1 (EX.)	●	4"	PVC
CLEAN OUT #2 (EX.)	●	4"	PVC
HOUSE SERVICE LINE	W	1" SIDR7	P.E.
MAIN WATER LINE (EX.)	W	Varies	PVC
SEWERLINE (EX.)	SS	4"	PVC
INFILTRATOR W/ INSPECTION PORT (EX.)		4' x 3'	P.E.
DWELLING, OTHER BLDGS			
MARKER POST		T-POST STEEL	

HOUSE CORNER TIES (FT.)					
NW	NE	SW	SE		

DRAINFIELD INFORMATION

SOIL TYPE: _____

AREA _____ SQ. FT.

TOTAL LENGTH _____ FT.

SMA Engineering Environmental Geomatics

DRAWN BY: AAV
DATE: 1/5/2022
APPROVED BY: CMD
DATE: 1/5/2022

AS-BUILT: ☐

REMARKS: _____

NOTES:
1. LOCATIONS OF ALL IMPROVEMENTS ARE SUBJECT TO CHANGE. CONSULT WITH ENGINEER PRIOR TO DRILLING.
2. PROVIDE MIN. 48" COVER OVER ALL WATERLINES UNLESS OTHERWISE SPECIFIED.
3. WELL SHALL NOT BE LOCATED WITHIN 100 FT OF POTENTIAL CONTAMINATION SOURCES SUCH AS SEPTIC TANKS, DRAIN FIELDS, LIVESTOCK CORRALS, ETC.
4. INSTALL WATERLINE WITH NO HIGH SPOTS FROM WELL TO HOUSE.
5. MAINTAIN MIN. 5 FT SEPARATION FROM ALL EXISTING FACILITIES UNLESS OTHERWISE APPROVED.
6. SEE ELECTRICAL PLANS FOR ALL ELECTRICAL WORK.
7. IF APPLICABLE, CONTRACTOR SHALL TIE IN TO EXISTING PLUMBING WITHIN THREE (3) FEET OF HOME.
8. POWER COMPANY (NTUA) SHALL BE ON SITE FOR ALL WORK WITHIN 20' OF ELECTRIC POLES

Rev #	Date	Description	By	Chkd

SOUDER, MILLER & ASSOCIATES
Engineering • Environmental • Geomatics
Serving the Southwest & Rocky Mountains
401 West Broadway Avenue
Farmington, NM 87401
Phone (505) 325-7535 Toll-Free (800) 519-0098 Fax (505) 326-0045
www.soudermiller.com

CLIENT
TOWN
TOHATCHI EAST FLATS
INDIVIDUAL WELLS
TOHATCHI, NEW MEXICO
INDIVIDUAL INSTALLATION DETAIL HOME 5

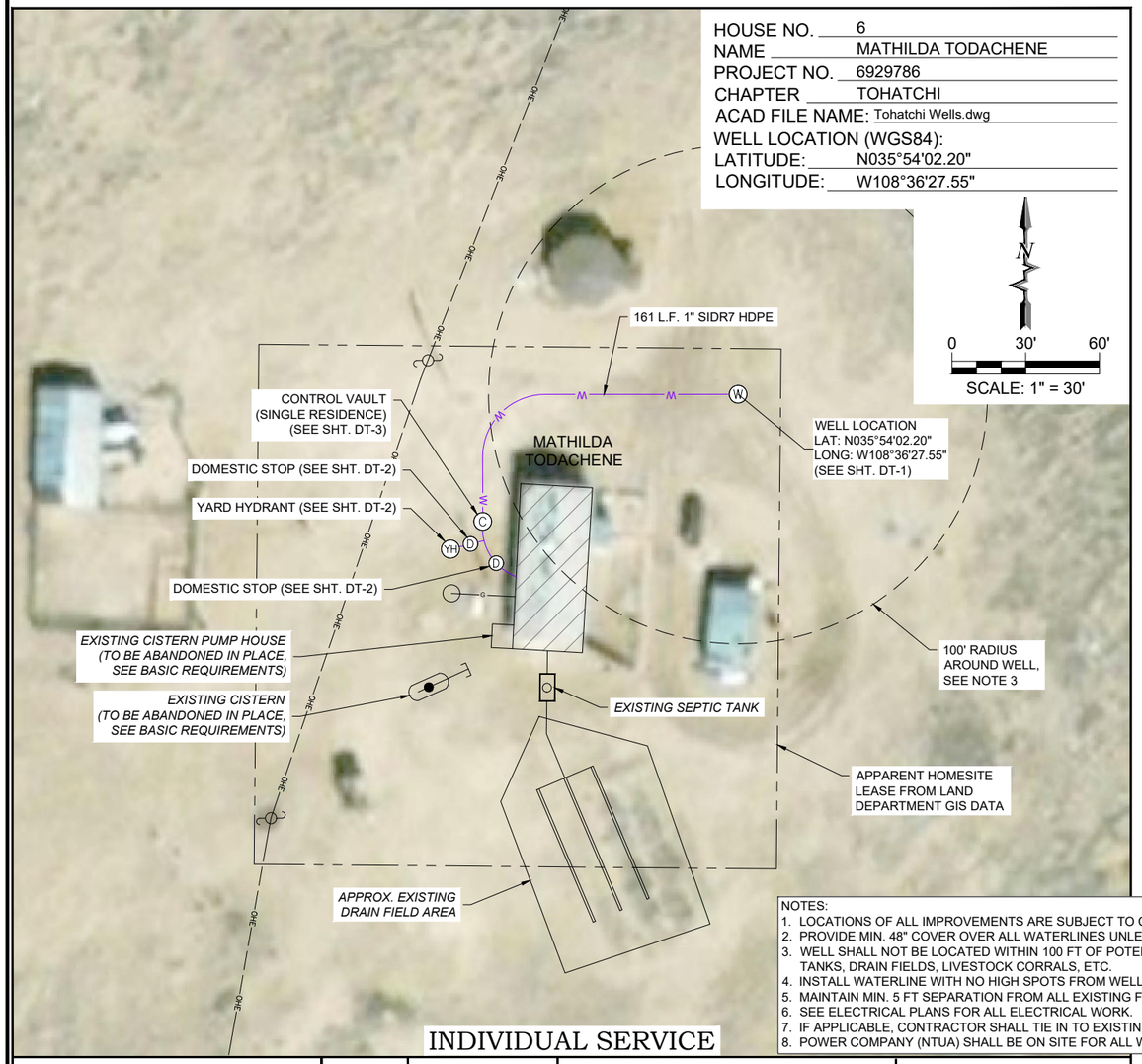
COLIN M. DALY NEW MEXICO 20923 12/27/2021 PROFESSIONAL ENGINEER

THIS DRAWING IS INCOMPLETE AND NOT TO BE USED FOR CONSTRUCTION UNLESS IT IS STAMPED, SIGNED AND DATED

Designed	Drawn	Checked
CMD	AAV	JMG

Date: January 2022
Scale: Horiz: NONE Vert: N/A
Project No: 6929786
Sheet: C-3

HOUSE NO. 6
NAME MATHILDA TODACHENE
PROJECT NO. 6929786
CHAPTER TOHATCHI
ACAD FILE NAME: Tohatchi Wells.dwg
WELL LOCATION (WGS84):
LATITUDE: N035°54'02.20"
LONGITUDE: W108°36'27.55"



NOTES:
1. LOCATIONS OF ALL IMPROVEMENTS ARE SUBJECT TO CHANGE. CONSULT WITH ENGINEER PRIOR TO DRILLING.
2. PROVIDE MIN. 48" COVER OVER ALL WATERLINES UNLESS OTHERWISE SPECIFIED.
3. WELL SHALL NOT BE LOCATED WITHIN 100 FT OF POTENTIAL CONTAMINATION SOURCES SUCH AS SEPTIC TANKS, DRAIN FIELDS, LIVESTOCK CORRALS, ETC.
4. INSTALL WATERLINE WITH NO HIGH SPOTS FROM WELL TO HOUSE.
5. MAINTAIN MIN. 5 FT SEPARATION FROM ALL EXISTING FACILITIES UNLESS OTHERWISE APPROVED.
6. SEE ELECTRICAL PLANS FOR ALL ELECTRICAL WORK.
7. IF APPLICABLE, CONTRACTOR SHALL TIE IN TO EXISTING PLUMBING WITHIN THREE (3) FEET OF HOME.
8. POWER COMPANY (NTUA) SHALL BE ON SITE FOR ALL WORK WITHIN 20' OF ELECTRIC POLES

INDIVIDUAL SERVICE

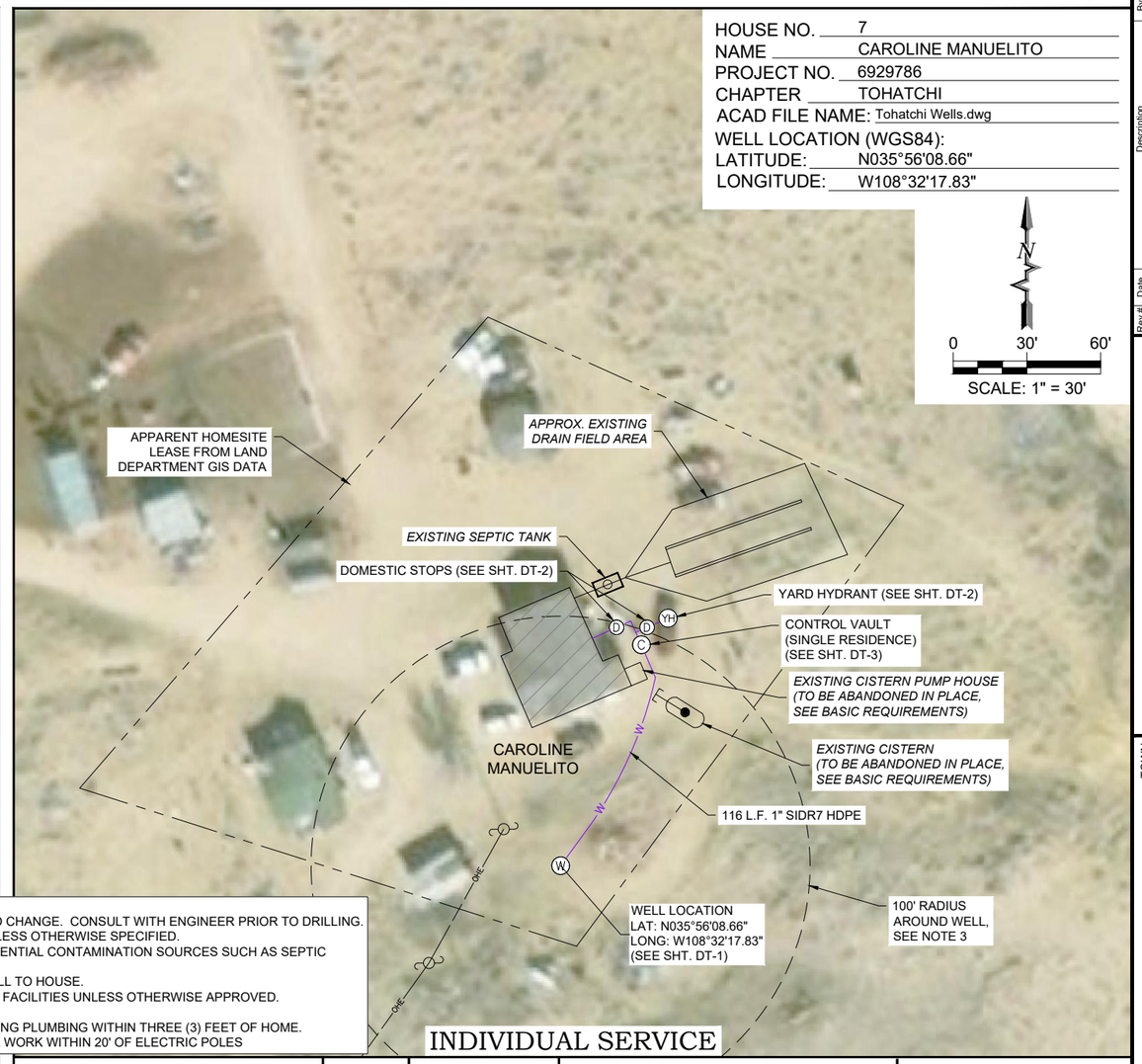
ITEM DESCRIPTION	SYMBOL	MATERIALS SIZE	MATERIALS MAT'L	HOUSE CORNER TIES (FT.) NW	NE	SW	SE
WELL	Ⓦ	SEE WELL DETAIL					
CONTROL VAULT (SINGLE RESIDENCE)	Ⓒ	18" PVC					
CONTROL VAULT (MULTI RESIDENCE)	Ⓒ*	48" DIA. CONCRETE					
DOMESTIC STOP	Ⓓ	1"					
YARD HYDRANT	Ⓨ	1"					
DISTRIBUTION BOX (EX.)	□	CONCRETE					
SEPTIC TANK (EX.)	○	1000 GAL. CONCRETE					
CISTERN TANK (EX.)	●	1000 GAL. PE					
CLEAN OUT #1 (EX.)	●	4"	PVC				
CLEAN OUT #2 (EX.)	●	4"	PVC				
HOUSE SERVICE LINE	W	1" SIDR7	P.E.				
MAIN WATER LINE (EX.)	W	Varies	PVC				
SEWERLINE (EX.)	SS	4"	PVC				
INFILTRATOR W/ INSPECTION PORT (EX.)		4' x 3'	P.E.				
DWELLING, OTHER BLDGS							
MARKER POST		T-POST STEEL					

DRAINFIELD INFORMATION
SOIL TYPE: _____
AREA _____ SQ. FT.
TOTAL LENGTH _____ FT.

DRAWN BY: AAV
DATE: 1/5/2022
APPROVED BY: CMD
DATE: 1/5/2022
AS-BUILT: ☐
REMARKS: _____

SMA Engineering Environmental Geomatics

HOUSE NO. 7
NAME CAROLINE MANUELITO
PROJECT NO. 6929786
CHAPTER TOHATCHI
ACAD FILE NAME: Tohatchi Wells.dwg
WELL LOCATION (WGS84):
LATITUDE: N035°56'08.66"
LONGITUDE: W108°32'17.83"



INDIVIDUAL SERVICE

ITEM DESCRIPTION	SYMBOL	MATERIALS SIZE	MATERIALS MAT'L	HOUSE CORNER TIES (FT.) NW	NE	SW	SE
WELL	Ⓦ	SEE WELL DETAIL					
CONTROL VAULT (SINGLE RESIDENCE)	Ⓒ	18" PVC					
CONTROL VAULT (MULTI RESIDENCE)	Ⓒ*	48" DIA. CONCRETE					
DOMESTIC STOP	Ⓓ	1"					
YARD HYDRANT	Ⓨ	1"					
DISTRIBUTION BOX (EX.)	□	CONCRETE					
SEPTIC TANK (EX.)	○	1000 GAL. CONCRETE					
CISTERN TANK (EX.)	●	1000 GAL. PE					
CLEAN OUT #1 (EX.)	●	4"	PVC				
CLEAN OUT #2 (EX.)	●	4"	PVC				
HOUSE SERVICE LINE	W	1" SIDR7	P.E.				
MAIN WATER LINE (EX.)	W	Varies	PVC				
SEWERLINE (EX.)	SS	4"	PVC				
INFILTRATOR W/ INSPECTION PORT (EX.)		4' x 3'	P.E.				
DWELLING, OTHER BLDGS							
MARKER POST		T-POST STEEL					

DRAINFIELD INFORMATION
SOIL TYPE: _____
AREA _____ SQ. FT.
TOTAL LENGTH _____ FT.

DRAWN BY: AAV
DATE: 1/5/2022
APPROVED BY: CMD
DATE: 1/5/2022
AS-BUILT: ☐
REMARKS: _____

SMA Engineering Environmental Geomatics

Rev #	Date	Description	By	Chkd

SOUDER, MILLER & ASSOCIATES
Engineering • Environmental • Geomatics
Serving the Southwest & Rocky Mountains
401 West Broadway Avenue
Farmington, NM 87401
Phone (505) 325-7535 Toll-Free (800) 519-0098 Fax (505) 326-0045
www.soudermiller.com

CLIENT: TOWN
TOHATCHI EAST FLATS
INDIVIDUAL WELLS
TOHATCHI, NEW MEXICO
INDIVIDUAL INSTALLATION DETAIL HOMES 6 & 7

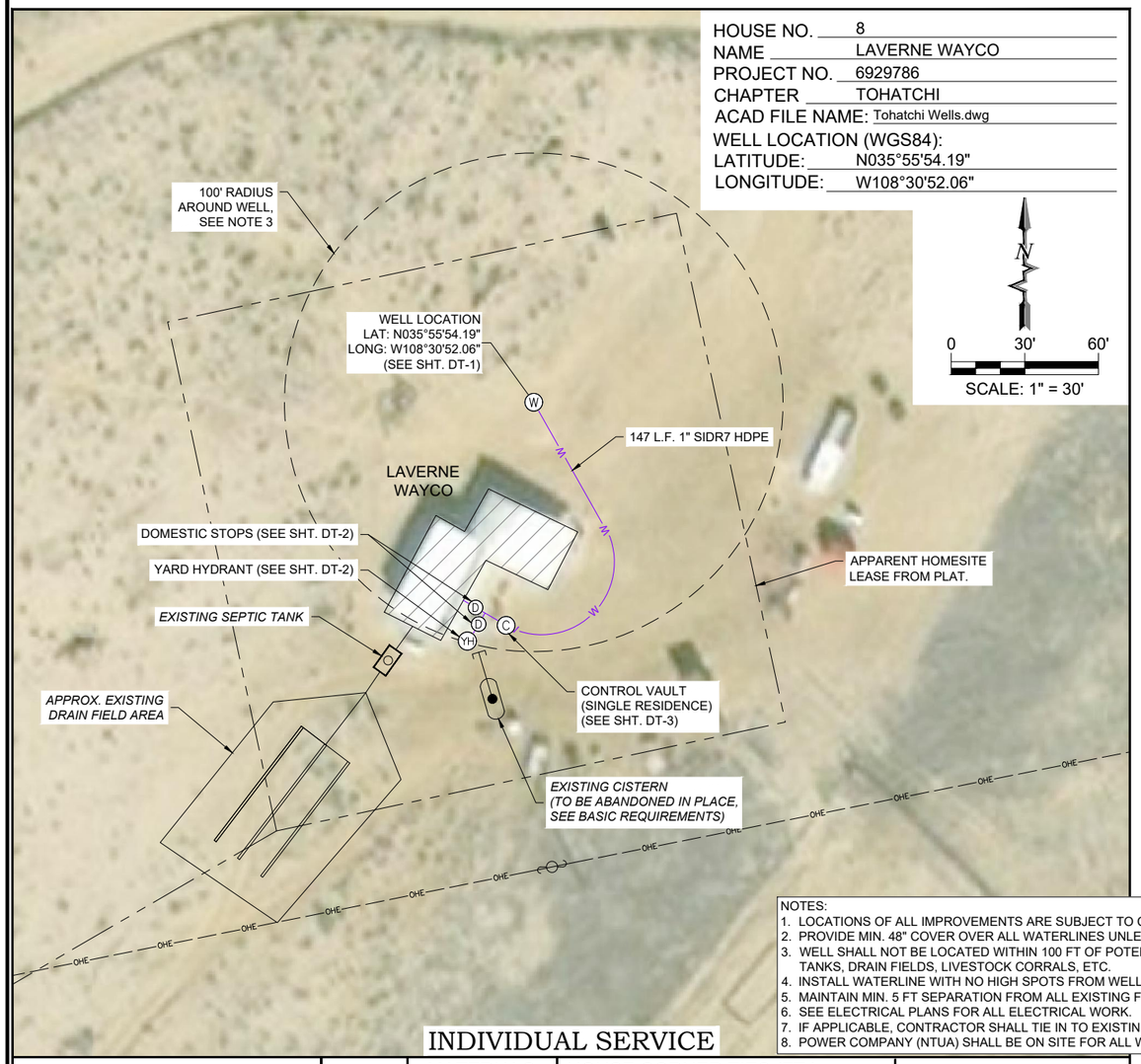
COLIN M. DALY NEW MEXICO 20923 12/27/2021 PROFESSIONAL ENGINEER

THIS DRAWING IS INCOMPLETE AND NOT TO BE USED FOR CONSTRUCTION UNLESS IT IS STAMPED, SIGNED AND DATED

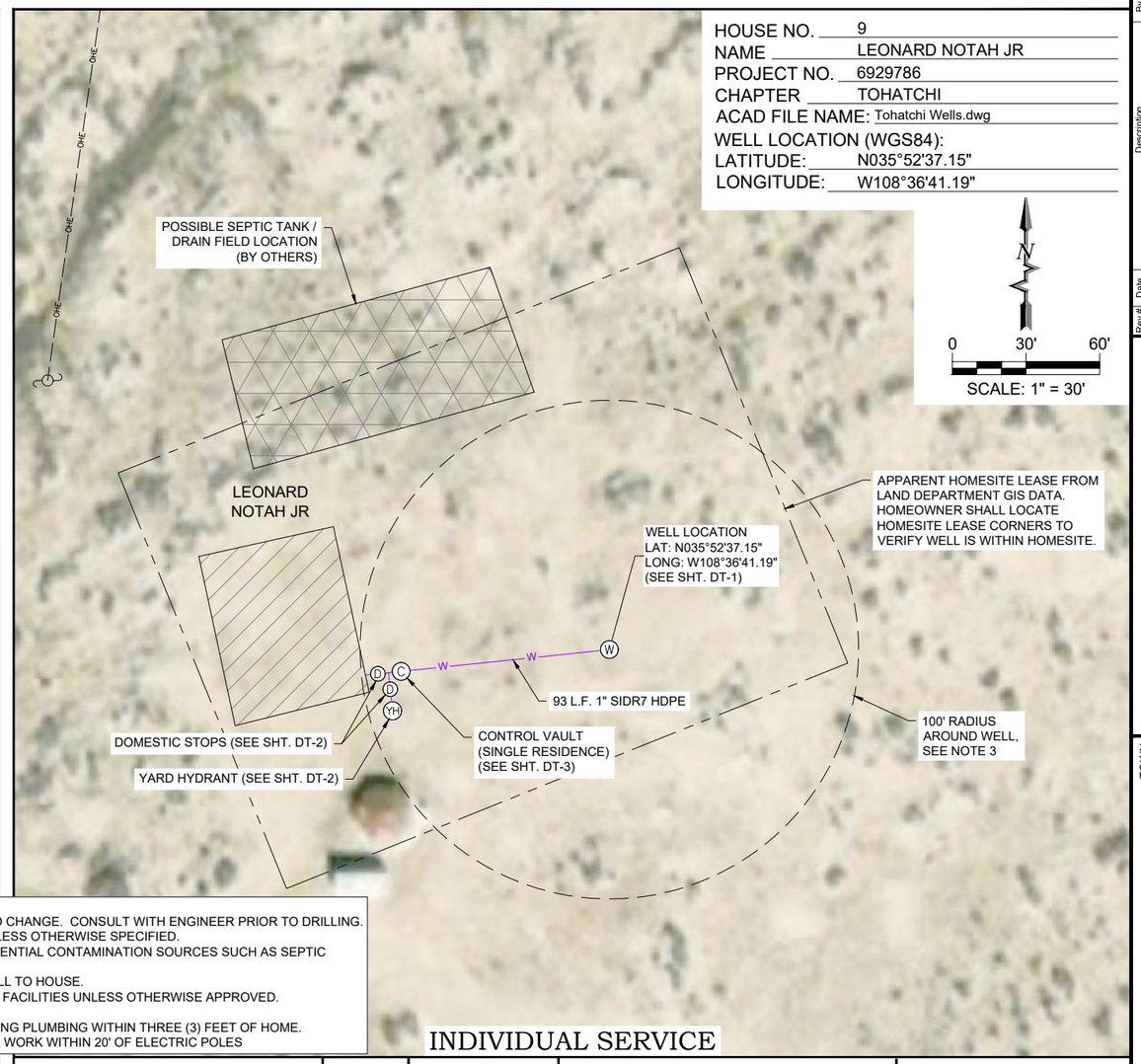
Designed	Drawn	Checked
CMD	AAV	JMG

Date: January 2022
Scale: Horiz: NONE Vert: N/A
Project No: 6929786
Sheet: C-4

HOUSE NO. 8
NAME LAVERNE WAYCO
PROJECT NO. 6929786
CHAPTER TOHATCHI
ACAD FILE NAME: Tohatchi Wells.dwg
WELL LOCATION (WGS84):
LATITUDE: N035°55'54.19"
LONGITUDE: W108°30'52.06"



HOUSE NO. 9
NAME LEONARD NOTAH JR
PROJECT NO. 6929786
CHAPTER TOHATCHI
ACAD FILE NAME: Tohatchi Wells.dwg
WELL LOCATION (WGS84):
LATITUDE: N035°52'37.15"
LONGITUDE: W108°36'41.19"



NOTES:
1. LOCATIONS OF ALL IMPROVEMENTS ARE SUBJECT TO CHANGE. CONSULT WITH ENGINEER PRIOR TO DRILLING.
2. PROVIDE MIN. 48" COVER OVER ALL WATERLINES UNLESS OTHERWISE SPECIFIED.
3. WELL SHALL NOT BE LOCATED WITHIN 100 FT OF POTENTIAL CONTAMINATION SOURCES SUCH AS SEPTIC TANKS, DRAIN FIELDS, LIVESTOCK CORRALS, ETC.
4. INSTALL WATERLINE WITH NO HIGH SPOTS FROM WELL TO HOUSE.
5. MAINTAIN MIN. 5 FT SEPARATION FROM ALL EXISTING FACILITIES UNLESS OTHERWISE APPROVED.
6. SEE ELECTRICAL PLANS FOR ALL ELECTRICAL WORK.
7. IF APPLICABLE, CONTRACTOR SHALL TIE IN TO EXISTING PLUMBING WITHIN THREE (3) FEET OF HOME.
8. POWER COMPANY (NTUA) SHALL BE ON SITE FOR ALL WORK WITHIN 20' OF ELECTRIC POLES

INDIVIDUAL SERVICE

ITEM DESCRIPTION	SYMBOL	MATERIALS SIZE	MATERIALS MAT'L	HOUSE CORNER TIES (FT.) NW	NE	SW	SE
WELL	W	SEE WELL DETAIL					
CONTROL VAULT (SINGLE RESIDENCE)	C	18" PVC					
CONTROL VAULT (MULTI RESIDENCE)	C*	48" DIA. CONCRETE					
DOMESTIC STOP	D	1"					
YARD HYDRANT	YH	1"					
DISTRIBUTION BOX (EX.)		CONCRETE					
SEPTIC TANK (EX.)		1000 GAL. CONCRETE					
CISTERN TANK (EX.)		1000 GAL. PE					
CLEAN OUT #1 (EX.)		4"	PVC				
CLEAN OUT #2 (EX.)		4"	PVC				
HOUSE SERVICE LINE	W	1" SIDR7	P.E.				
MAIN WATER LINE (EX.)	W	Varies	PVC				
SEWERLINE (EX.)	SS	4"	PVC				
INFILTRATOR W/ INSPECTION PORT (EX.)		4' x 3'	P.E.				
DWELLING, OTHER BLDGS							
MARKER POST		T-POST STEEL					

DRAINFIELD INFORMATION
SOIL TYPE: _____
AREA _____ SQ. FT.
TOTAL LENGTH _____ FT.

DRAWN BY: AAV
DATE: 1/5/2022
APPROVED BY: CMD
DATE: 1/5/2022
AS-BUILT: ☐
REMARKS: _____

SMA Engineering Environmental Geomatics

INDIVIDUAL SERVICE

ITEM DESCRIPTION	SYMBOL	MATERIALS SIZE	MATERIALS MAT'L	HOUSE CORNER TIES (FT.) NW	NE	SW	SE
WELL	W	SEE WELL DETAIL					
CONTROL VAULT (SINGLE RESIDENCE)	C	18" PVC					
CONTROL VAULT (MULTI RESIDENCE)	C*	48" DIA. CONCRETE					
DOMESTIC STOP	D	1"					
YARD HYDRANT	YH	1"					
DISTRIBUTION BOX (EX.)		CONCRETE					
SEPTIC TANK (EX.)		1000 GAL. CONCRETE					
CISTERN TANK (EX.)		1000 GAL. PE					
CLEAN OUT #1 (EX.)		4"	PVC				
CLEAN OUT #2 (EX.)		4"	PVC				
HOUSE SERVICE LINE	W	1" SIDR7	P.E.				
MAIN WATER LINE (EX.)	W	Varies	PVC				
SEWERLINE (EX.)	SS	4"	PVC				
INFILTRATOR W/ INSPECTION PORT (EX.)		4' x 3'	P.E.				
DWELLING, OTHER BLDGS							
MARKER POST		T-POST STEEL					

DRAINFIELD INFORMATION
SOIL TYPE: _____
AREA _____ SQ. FT.
TOTAL LENGTH _____ FT.

DRAWN BY: AAV
DATE: 1/5/2022
APPROVED BY: CMD
DATE: 1/5/2022
AS-BUILT: ☐
REMARKS: _____

SMA Engineering Environmental Geomatics

Rev #	Date	Description	By	Chkd

SOUDER, MILLER & ASSOCIATES
Engineering • Environmental • Geomatics
Serving the Southwest & Rocky Mountains
401 West Broadway Avenue
Farmington, NM 87401
Phone (505) 325-7535 Toll-Free (800) 519-0098 Fax (505) 326-0045
www.soudermiller.com

CLIENT: TOWN
TOHATCHI EAST FLATS
INDIVIDUAL WELLS
TOHATCHI, NEW MEXICO
INDIVIDUAL INSTALLATION DETAIL HOMES 8 & 9

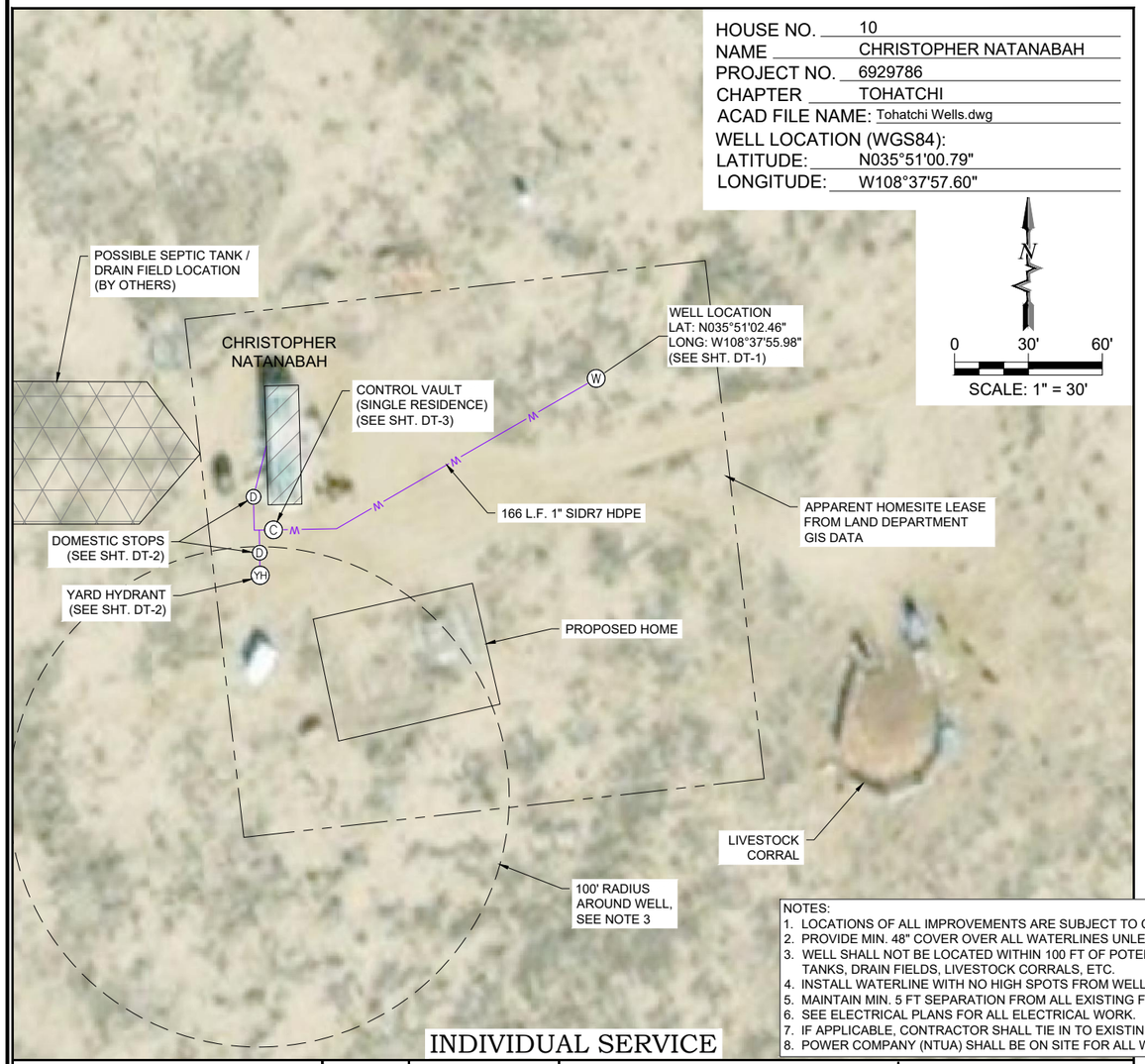
COLIN M. DALY NEW MEXICO 20923 12/27/2021 PROFESSIONAL ENGINEER

THIS DRAWING IS INCOMPLETE AND NOT TO BE USED FOR CONSTRUCTION UNLESS IT IS STAMPED, SIGNED AND DATED

Designed	Drawn	Checked
CMD	AAV	JMG

Date: January 2022
Scale: Horiz: NONE Vert: N/A
Project No: 6929786
Sheet: C-5

HOUSE NO. 10
NAME CHRISTOPHER NATANABAH
PROJECT NO. 6929786
CHAPTER TOHATCHI
ACAD FILE NAME: Tohatchi Wells.dwg
WELL LOCATION (WGS84):
LATITUDE: N035°51'00.79"
LONGITUDE: W108°37'57.60"



NOTES:
1. LOCATIONS OF ALL IMPROVEMENTS ARE SUBJECT TO CHANGE. CONSULT WITH ENGINEER PRIOR TO DRILLING.
2. PROVIDE MIN. 48" COVER OVER ALL WATERLINES UNLESS OTHERWISE SPECIFIED.
3. WELL SHALL NOT BE LOCATED WITHIN 100 FT OF POTENTIAL CONTAMINATION SOURCES SUCH AS SEPTIC TANKS, DRAIN FIELDS, LIVESTOCK CORRALS, ETC.
4. INSTALL WATERLINE WITH NO HIGH SPOTS FROM WELL TO HOUSE.
5. MAINTAIN MIN. 5 FT SEPARATION FROM ALL EXISTING FACILITIES UNLESS OTHERWISE APPROVED.
6. SEE ELECTRICAL PLANS FOR ALL ELECTRICAL WORK.
7. IF APPLICABLE, CONTRACTOR SHALL TIE IN TO EXISTING PLUMBING WITHIN THREE (3) FEET OF HOME.
8. POWER COMPANY (NTUA) SHALL BE ON SITE FOR ALL WORK WITHIN 20' OF ELECTRIC POLES

INDIVIDUAL SERVICE

ITEM DESCRIPTION	SYMBOL	MATERIALS SIZE	MATERIALS MAT'L
WELL	W	SEE WELL DETAIL	
CONTROL VAULT (SINGLE RESIDENCE)	C	18" PVC	
CONTROL VAULT (MULTI RESIDENCE)	C*	48" DIA. CONCRETE	
DOMESTIC STOP	D	1"	
YARD HYDRANT	YH	1"	
DISTRIBUTION BOX (EX.)		CONCRETE	
SEPTIC TANK (EX.)		1000 GAL. CONCRETE	
CISTERN TANK (EX.)		1000 GAL. PE	
CLEAN OUT #1 (EX.)		4"	PVC
CLEAN OUT #2 (EX.)		4"	PVC
HOUSE SERVICE LINE	W	1" SIDR7	P.E.
MAIN WATER LINE (EX.)	W	Varies	PVC
SEWERLINE (EX.)	SS	4"	PVC
INFILTRATOR W/ INSPECTION PORT (EX.)		4' x 3'	P.E.
DWELLING, OTHER BLDGS			
MARKER POST		T-POST STEEL	

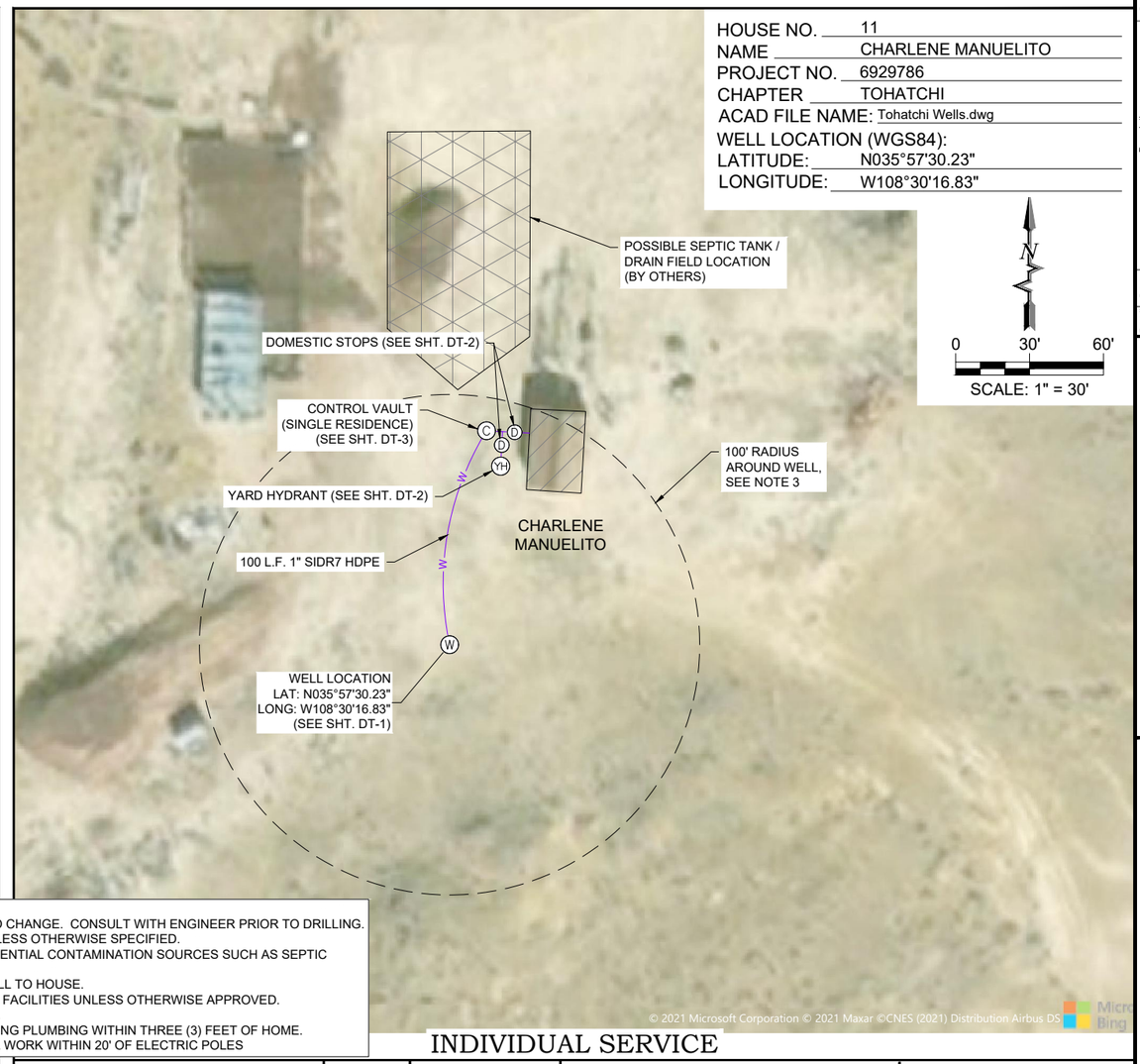
HOUSE CORNER TIES (FT.) NW	NE	SW	SE

DRAINFIELD INFORMATION
SOIL TYPE: _____
AREA _____ SQ. FT.
TOTAL LENGTH _____ FT.

DRAWN BY: AAV
DATE: 1/5/2022
APPROVED BY: CMD
DATE: 1/5/2022
AS-BUILT: ☐
REMARKS: _____

SMA Engineering Environmental Geomatics

HOUSE NO. 11
NAME CHARLENE MANUELITO
PROJECT NO. 6929786
CHAPTER TOHATCHI
ACAD FILE NAME: Tohatchi Wells.dwg
WELL LOCATION (WGS84):
LATITUDE: N035°57'30.23"
LONGITUDE: W108°30'16.83"



INDIVIDUAL SERVICE

ITEM DESCRIPTION	SYMBOL	MATERIALS SIZE	MATERIALS MAT'L
WELL	W	SEE WELL DETAIL	
CONTROL VAULT (SINGLE RESIDENCE)	C	18" PVC	
CONTROL VAULT (MULTI RESIDENCE)	C*	48" DIA. CONCRETE	
DOMESTIC STOP	D	1"	
YARD HYDRANT	YH	1"	
DISTRIBUTION BOX (EX.)		CONCRETE	
SEPTIC TANK (EX.)		1000 GAL. CONCRETE	
CISTERN TANK (EX.)		1000 GAL. PE	
CLEAN OUT #1 (EX.)		4"	PVC
CLEAN OUT #2 (EX.)		4"	PVC
HOUSE SERVICE LINE	W	1" SIDR7	P.E.
MAIN WATER LINE (EX.)	W	Varies	PVC
SEWERLINE (EX.)	SS	4"	PVC
INFILTRATOR W/ INSPECTION PORT (EX.)		4' x 3'	P.E.
DWELLING, OTHER BLDGS			
MARKER POST		T-POST STEEL	

HOUSE CORNER TIES (FT.) NW	NE	SW	SE

DRAINFIELD INFORMATION
SOIL TYPE: _____
AREA _____ SQ. FT.
TOTAL LENGTH _____ FT.

DRAWN BY: AAV
DATE: 1/5/2022
APPROVED BY: CMD
DATE: 1/5/2022
AS-BUILT: ☐
REMARKS: _____

SMA Engineering Environmental Geomatics

Rev #	Date	Description	By	Chkd

SOUDER, MILLER & ASSOCIATES
Engineering • Environmental • Geomatics
Serving the Southwest & Rocky Mountains
401 West Broadway Avenue
Farmington, NM 87401
Phone (505) 325-7535 Toll-Free (800) 519-0098 Fax (505) 326-0045
www.soudermiller.com

CLIENT: TOWN OF TOHATCHI

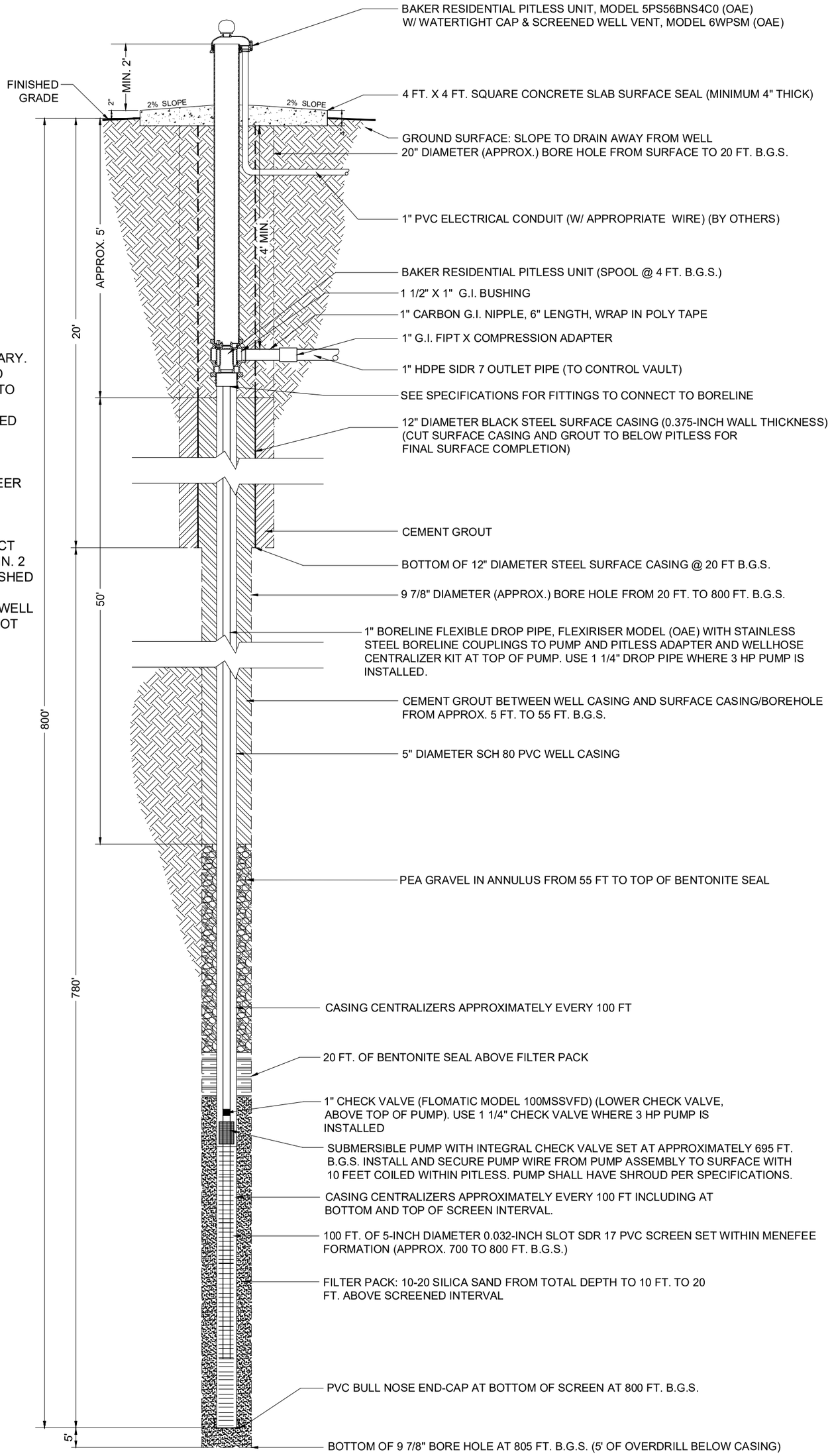
TOHATCHI EAST FLATS
INDIVIDUAL WELLS
TOHATCHI, NEW MEXICO
INDIVIDUAL INSTALLATION DETAIL HOMES 10 & 11

COLIN M. DALY NEW MEXICO 20923 12/27/2021 PROFESSIONAL ENGINEER

THIS DRAWING IS INCOMPLETE AND NOT TO BE USED FOR CONSTRUCTION UNLESS IT IS STAMPED, SIGNED AND DATED

Designed	Drawn	Checked
CMD	AAV	JMG

Date: January 2022
Scale: Horiz: NONE Vert: N/A
Project No: 6929786
Sheet: C-6



NOTES:

1. DIAGRAM NOT TO SCALE
2. WELL DESIGN IS PRELIMINARY. DEPTHS, DIMENSIONS, AND MATERIALS ARE SUBJECT TO CHANGE BASED ON FORMATIONS ENCOUNTERED DURING DRILLING.
3. CONTRACTOR SHALL COORDINATE WITH ENGINEER TO ENSURE THE PITLESS ADAPTOR AND APPURTENANCES ARE INSTALLED AT THE CORRECT ELEVATION TO PROVIDE MIN. 2 FT. OF STICKUP FROM FINISHED GRADE TO THE FLANGED CONNECTION BELOW THE WELL CAP. FINISHED GRADE IS NOT PROVIDED IN THESE DRAWINGS.

Sheet: DT-1

Project No: 6929786

Scale: Horiz: NONE Vert: N/A

Date: January 2022

Designed: CMD | Drawn: AAV | Checked: JMG

THESE DRAWINGS ARE PROPRIETARY AND NOT TO BE USED FOR CONSTRUCTION UNLESS IT IS SIGNED BELOW

PROFESSIONAL ENGINEER — COLIN M. DALY — NEW MEXICO — 23923 — 12/27/2021

CLIENT

TOWN

TOHATCHI EAST FLATS
INDIVIDUAL WELLS
TOHATCHI, NEW MEXICO
WELL DESIGN DETAIL

SOUDER, MILLER & ASSOCIATES
SMA
Engineering ♦ Environmental ♦ Geomatics
Serving the Southwest & Rocky Mountains
401 West Broadway Avenue
Farmington, NM 87401
Phone (505) 325-7535 Toll-Free (800) 519-0098 Fax (505) 326-0045
www.soudermiller.com

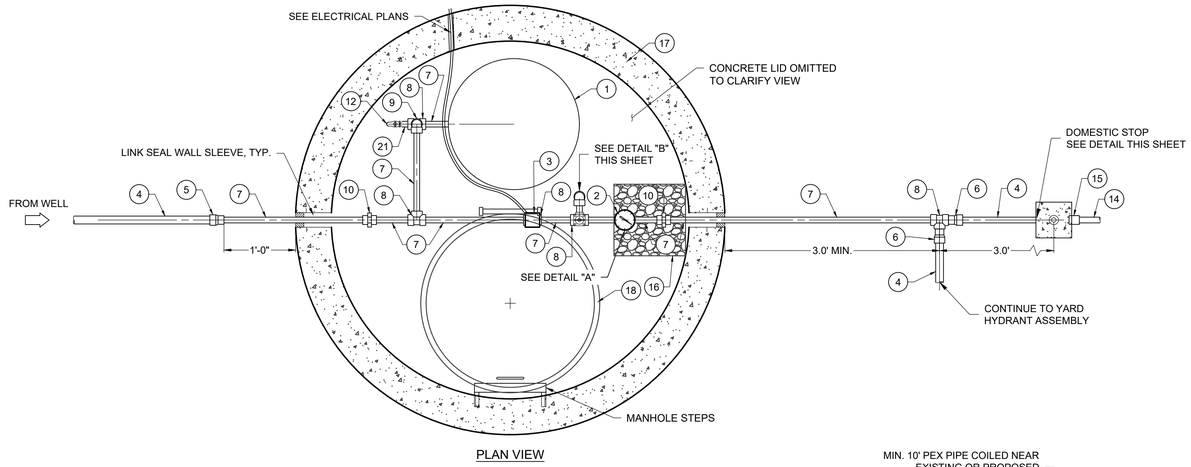
Rev #	Date	Description	By	Chk'd

KEYED NOTES - MULTI RESIDENCE WELL

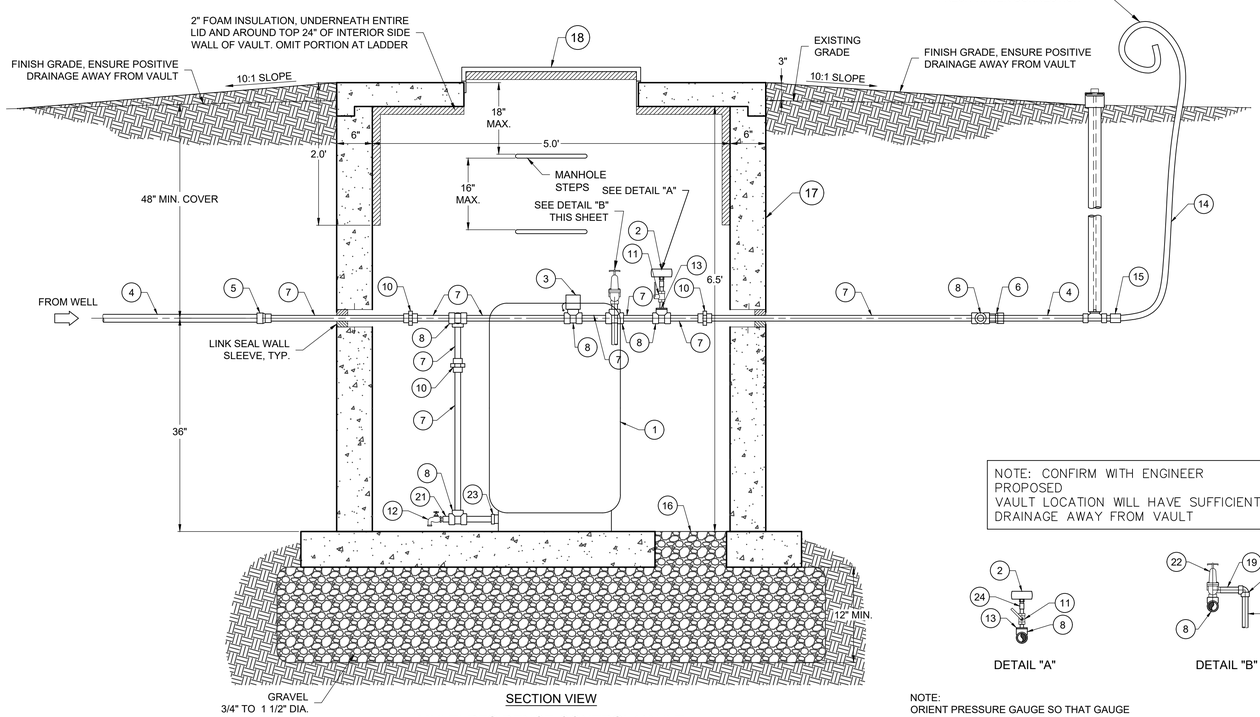
Item No.	Description
1	AMTROL WX-251 62 GAL PRESSURE TANK, OAE
2	*PRESSURE GAUGE (1/4" MIPT) 2.5" AND 0-100 PSI RANGE, WIKA 213.53DW, OAE, CENTER BACK MOUNT
3	PRESSURE SWITCH
4	1" SIDR 7 HDPE PIPE
5	*1" COMP x 1" FIPT ADAPTOR, GI
6	*1" COMP x 1" MIPT ADAPTOR, GI
7	*1" THREADED GALVANIZED IRON PIPE
8	*1" TEE, NPT, GI
9	*1" 90° BEND, NPT, GI
10	*1" UNION, NPT, GI
11	*1/2" BALL VALVE, FIPT X MIPT
12	*3/4" HOSE BIB WITH VACUUM BREAKER FOR DRAINING
13	*1" x 1/2" BUSHING, NPT, GI
14	1" PEX PIPE
15	*1" MIPT x 3/4" COMP ADAPTOR, GI
16	12" x 12" SUMP
17	5'-0" DIA I.D. TYPE "C" MANHOLE, PRECAST REINFORCED CONCRETE VAULT SHALL BE RATED FOR 20,000 LBS VERTICAL CAPACITY. MANHOLE BASE SHALL HAVE 12" X 12" SUMP FOR DRAINAGE, LOCATED AS SHOWN
18	30" HINGE TYPE MANHOLE COVER, HINGE TOWARD CENTER OF MANHOLE
19	*1" x 3" NIPPLE, NPT, GI
20	*1" x 6" NIPPLE, NPT x PE, GI
21	*1" x 3/4" BUSHING, NPT, GI
22	*1" MIPT x 1" FIPT ADJUSTABLE PRESSURE RELIEF VALVE, 100 psi MAX., SET TO 80 psi
23	*1-1/4" X 1" BUSHING, NPT, GI
24	*1/2" X 1/4" BUSIHNG, GI

NOTES:
1. WRAP EXTERIOR GALVANIZED PIPING WITH POLY TAPE, SEE SPECIFICATIONS.
2. PAINT INTERIOR GALVANIZED PIPING, SEE SPECIFICATIONS.

*ADDITIVE ALTERNATE:
IN LIEU OF GALVANIZED IRON OR OTHER MATERIALS, USE STAINLESS STEEL FOR THE FOLLOWING ITEMS: 2, 5-13, 15, 19-24



PLAN VIEW



SECTION VIEW

MULTI RESIDENCE CONTROL VAULT

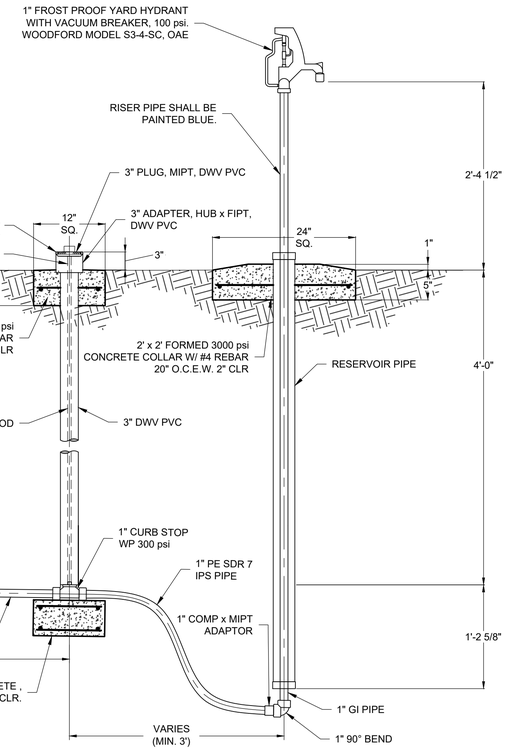
NOT TO SCALE

NOTE: CONFIRM WITH ENGINEER PROPOSED VAULT LOCATION WILL HAVE SUFFICIENT DRAINAGE AWAY FROM VAULT

DETAIL "A"

DETAIL "B"

NOTE:
ORIENT PRESSURE GAUGE SO THAT GAUGE CAN BE READ FROM THE ACCESS DOOR WITHOUT HAVING TO ENTER THE VAULT.



DOMESTIC STOP AND YARD HYDRANT ASSEMBLY DETAIL

NOT TO SCALE

Rev #	Date	Description	By	Chk'd

SOUDER, MILLER & ASSOCIATES
Engineering • Environmental • Geomatics
Serving the Southwest & Rocky Mountains
401 West Broadway Avenue
Farmington, NM 87401
Phone (505) 325-7535 Toll-Free (800) 519-0098 Fax (505) 326-0045
www.soudermiller.com

CLIENT: TOWN

TOHATCHI EAST FLATS
INDIVIDUAL WELLS
TOHATCHI, NEW MEXICO
MULTI RESIDENCE VAULT & YARD HYD. DETAILS

COLIN M. DALY NEW MEXICO 20923 12/27/2021 PROFESSIONAL ENGINEER

THIS DRAWING IS INCOMPLETE AND NOT TO BE USED FOR CONSTRUCTION UNLESS IT IS STAMPED, SIGNED AND DATED

Designed	Drawn	Checked
CMD	AAV	JMG

Date: January 2022

Scale: Horiz: NONE Vert: N/A

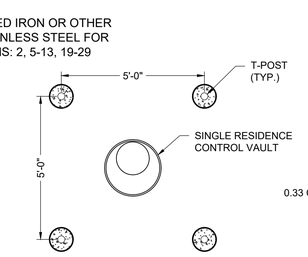
Project No: 6929786

Sheet: DT-2

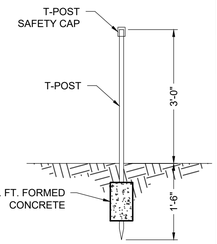
KEYED NOTES - SINGLE RESIDENCE WELL

Item No.	Description
1	AMTROL WX-102 4.4 GAL PRESSURE TANK, OAE
2	*1" MIPT x 1" FIPT ADJUSTABLE PRESSURE RELIEF VALVE, 100 psi MAX., SET TO 80 psi
3	GRUNDFOS PRESSURE SWITCH, OAE
4	1" SIDR 7 HDPE PIPE
5	*1" COMP x 1" FIPT ADAPTOR, GI
6	*1" COMP x 1" MIPT ADAPTOR, GI
7	*1" THREADED GALVANIZED IRON PIPE
8	*1" TEE, NPT, GI
9	*1" 90° BEND, NPT, GI
10	*1" UNION, NPT, GI
11	*1/4" BALL VALVE, FIPT x MIPT
12	*3/4" HOSE BIB WITH VACUUM BREAKER FOR DRAINING
13	*1" x 1/4" CLOSE BUSHING, GI
14	1" PEX PIPE
15	NOT USED
16	NOT USED
17	18" x 84" MUELLER THERMA-COIL METER BOX (OAE) WITH 1" HOSE COILS AND STEEL PLATFORM
18	18" LID, NON-LOCKING
19	*1" x 3" NIPPLE, NPT, GI
20	*1" x 12" NIPPLE, NPT x PE, GI
21	*1" x 3/4" BUSHING, NPT, GI
22	*1" CROSS, NPT, GI
23	*1" STREET ELBOW, GI
24	*1" WYE STRAINER, GI
25	*PRESSURE GAUGE (1/4" MIPT) 2.5" AND 0-100 PSI RANGE, WIKA 213.53DW, OAE, CENTER BACK MOUNT
26	*10 LF OF 1/8" GALVANIZED GRADE 30 PROOF COIL CHAIN ATTACHED TO LID
27	*1/2" STREET ELBOW, GI
28	*1/2" x 1/4" BUSHING, NPT, GI
29	*1" 90° BEND, SIDE OUTLET, NPT, GI

*ADDITIVE ALTERNATE:
IN LIEU OF GALVANIZED IRON OR OTHER MATERIALS, USE STAINLESS STEEL FOR THE FOLLOWING ITEMS: 2, 5-13, 19-29



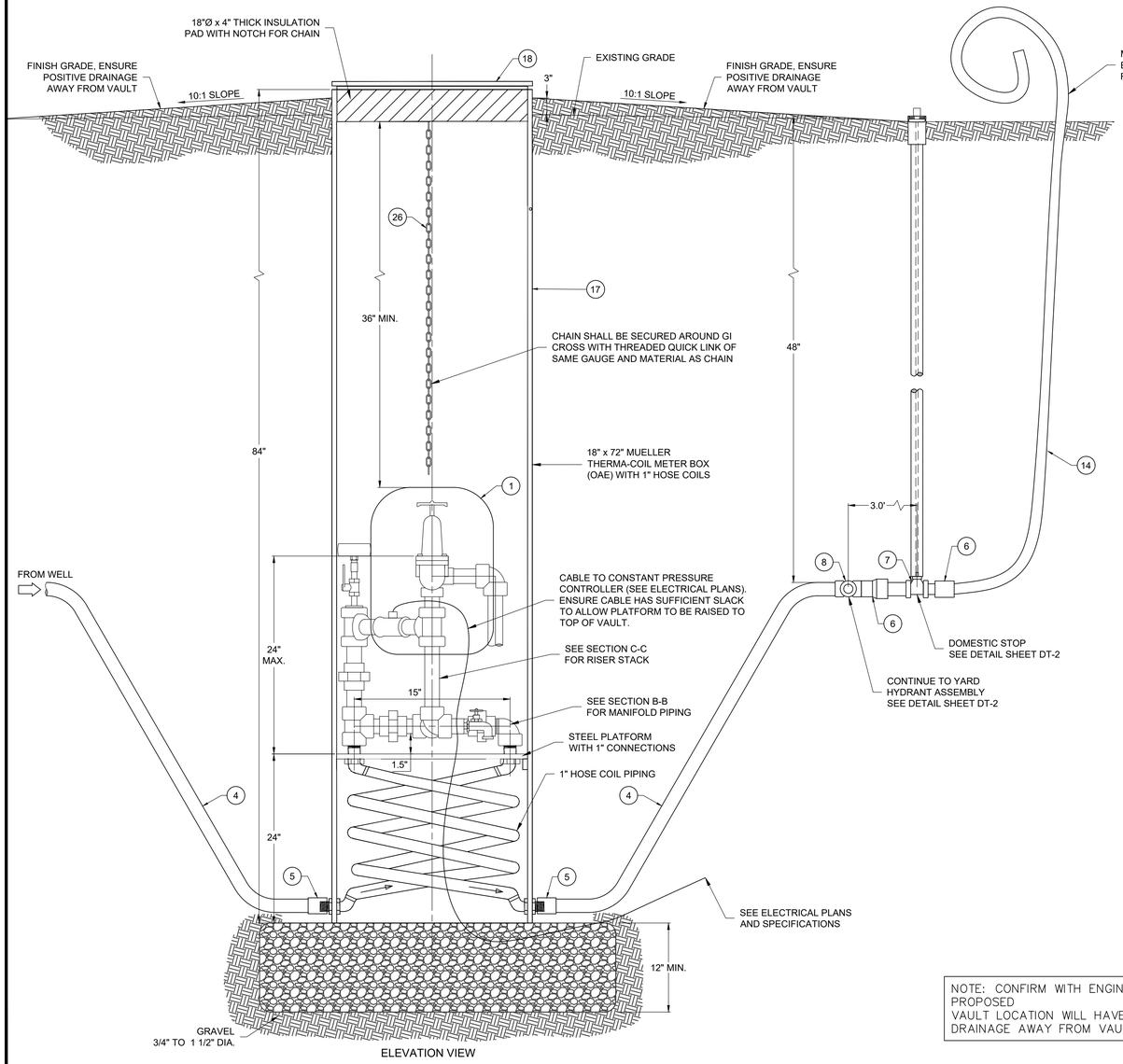
PROTECTION PLAN VIEW



T-POST ELEVATION VIEW

CONTROL VAULT PROTECTION AND T-POST DETAIL

NOT TO SCALE

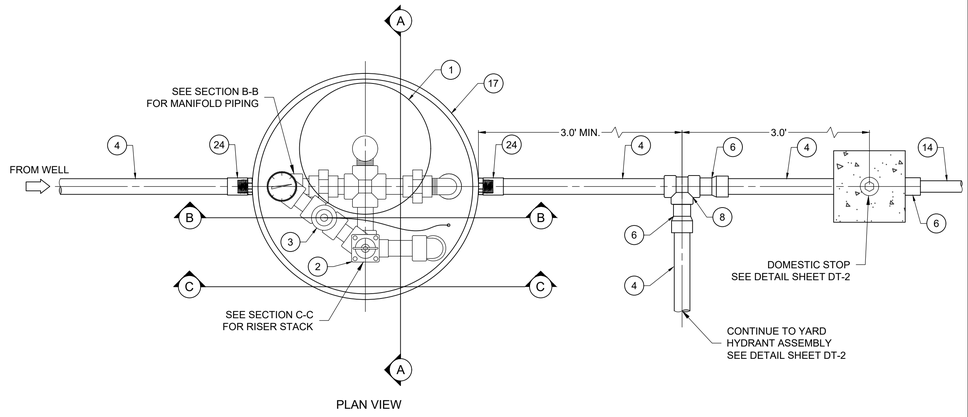


ELEVATION VIEW

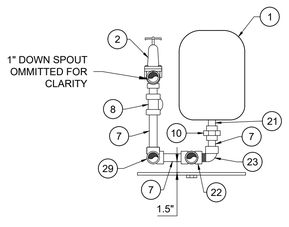
SINGLE RESIDENCE CONTROL VAULT

NOT TO SCALE

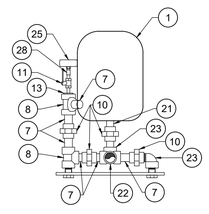
NOTE: CONFIRM WITH ENGINEER PROPOSED VAULT LOCATION WILL HAVE SUFFICIENT DRAINAGE AWAY FROM VAULT



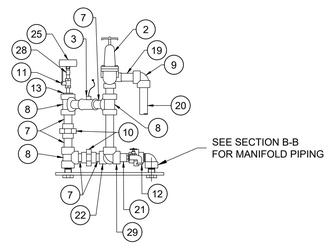
PLAN VIEW



SECTION "A-A"



SECTION "B-B" MAINFOLD PIPING



SECTION "C-C" VERTICAL RISER

NOTE:
ORIENT PRESSURE GAUGE SO THAT GAUGE CAN BE READ FROM THE ACCESS DOOR WITHOUT HAVING TO LIFT THE PLUMBING ASSEMBLY.

Rev #	Date	Description	By	Chk'd

SOUDER, MILLER & ASSOCIATES
Engineering • Environmental • Geomatics
Serving the Southwest & Rocky Mountains
401 West Broadway Avenue
Farmington, NM 87401
Phone (505) 325-7535 Toll-Free (800) 519-0098 Fax (505) 326-0045
www.soudermiller.com

TOWN

CLIENT

TOHATCHI EAST FLATS
INDIVIDUAL WELLS
TOHATCHI, NEW MEXICO
SINGLE RESIDENCE VAULT

COLIN M. DALY NEW MEXICO 20923 12/21/2021 PROFESSIONAL ENGINEER

THIS DRAWING IS INCOMPLETE AND NOT TO BE USED FOR CONSTRUCTION UNLESS IT IS STAMPED, SIGNED AND DATED

Designed	Drawn	Checked
CMD	AAV	JMG

Date: January 2022

Scale: Horiz: NONE
Vert: N/A

Project No: 6929786

Sheet: DT-3