

JICARILLA APACHE NATION CUTTER INTERTIE WATER SUPPLY PROJECT

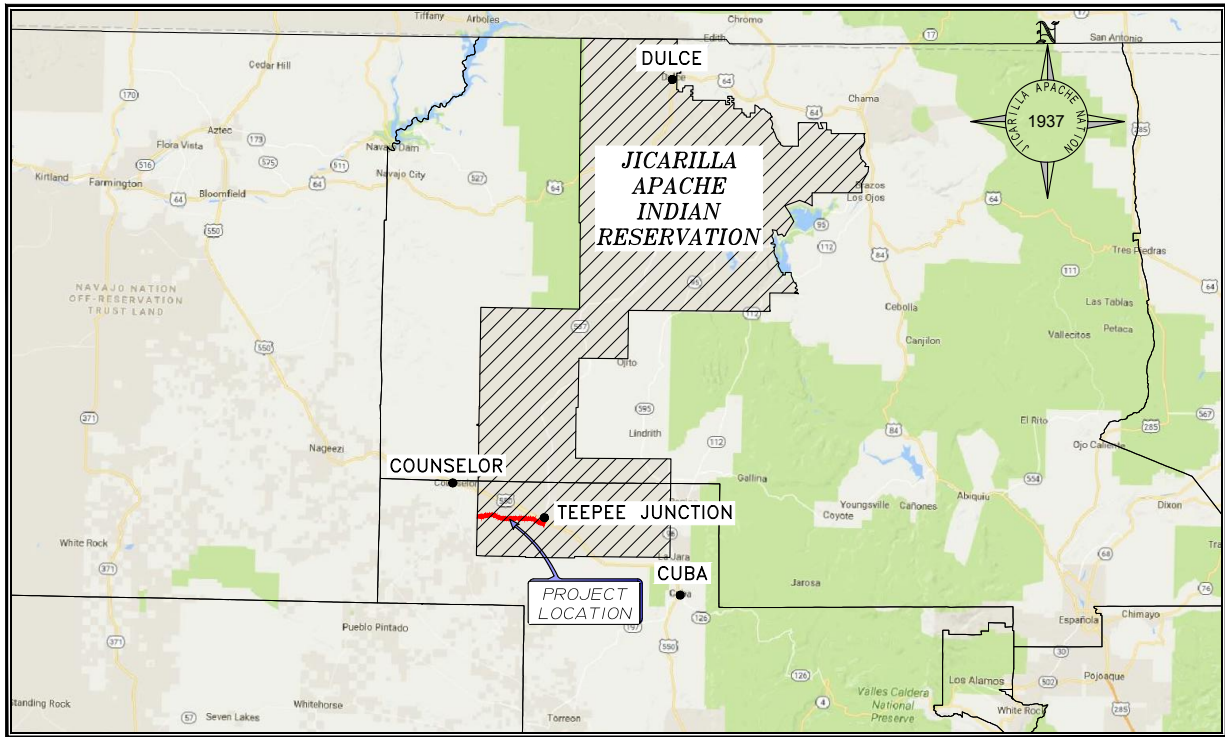


JICARILLA APACHE INDIAN RESERVATION SANDOVAL COUNTY, NM

April, 2020

PROJECT DESCRIPTION

PHASE 2 OF THE PROJECT CONSISTS OF CONSTRUCTION OF
2.4 MILES OF 12" PVC AND 0.1 MILES OF 10" PVC WATERLINE,
150K GALLON WATER TANK AND APPURTENANCES



JICARILLA RESERVATION
PROJECT SITE MAP

DRAWING INDEX

GENERAL

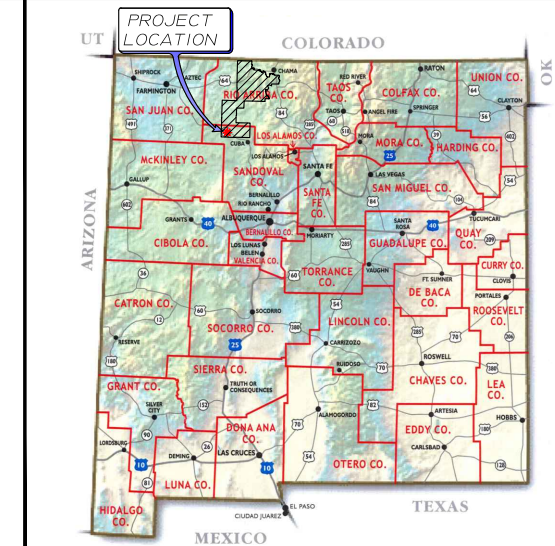
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PROJECT VICINITY MAP

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- DT-14 NOT USED
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- DT-19 TYPICAL WATER STORAGE TANK DETAILS (2 of 2)
- DT-20 STANDARD FENCE DETAILS
- DT-21 EROSION CONTROL DETAILS (1 of 2)
- DT-22 EROSION CONTROL DETAILS (2 of 2) AND R-O-W GRADING
- DT-23 TRAFFIC CONTROL (GRAVEL AND DIRT ROAD)
- DT-24 NOT USED

Client: Jicarilla Apache Nation Location: JAN Border to Teepee Junction, NM

COVER SHEET AND DRAWING LIST
JICARILLA APACHE NATION
CUTTER INTERTIE
SANDOVAL COUNTY, NEW MEXICO

Designed: RMB Drawn: MvH/AaV Checked: TTT



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

NOTICE OF EXTENDED
PAYMENT PROVISION:
THIS CONTRACT ALLOWS THE
OWNER TO MAKE PAYMENT
WITHIN 45 DAYS AFTER
SUBMISSION OF
AN UNDISPUTED REQUEST
FOR PAYMENT.



Date: April 3, 2020

Scale: Horiz: NONE
Vert: N/A

Project No: 6921433

Sheet: G-1

P:\6- Jicarilla Apache Nation - Cutter Inter-Tie (6921433)\CAD\CONSTRUCTION PLANS\Cutter JAN Inter-Tie Cover-Gen Notes.dwg
4/3/2020 9:18:29 AM lav

GENERAL NOTES

1.

THE ENGINEER WAIVES ANY AND ALL RESPONSIBILITY AND IS NOT LIABLE FOR PROBLEMS THAT MAY ARISE FROM CONTRACTOR'S FAILURE TO FOLLOW THESE DRAWINGS, SPECIFICATIONS, AND THE DESIGN INTENT THEY CONVEY, OR FOR PROBLEMS ARISING FROM FAILURE TO OBTAIN AND/OR FOLLOW THE ENGINEER'S GUIDANCE WITH RESPECT TO ANY ERRORS, OMISSIONS, INCONSISTENCIES, AMBIGUITIES, OR CONFLICTS.
2.

IF THERE IS A CONFLICT BETWEEN THE PLANS, SPECIFICATIONS AND/OR MANUFACTURER'S 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.
3.

IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO FAMILIARIZE HIMSELF WITH THE LOCATION OF ALL UTILITIES LOCATED WITHIN THE LIMITS OF CONSTRUCTION. THE GENERAL LOCATION OF KNOWN EXISTING UTILITIES HAS BEEN SHOWN ON THE CONSTRUCTION DRAWINGS TO INDICATE THAT CAUTION MUST BE EXERCISED WHEN WORKING IN THESE AREAS. IN MANY CASES THE EXACT LOCATION OF THE FACILITIES IS NOT KNOWN. THE CONTRACTOR SHALL BE RESPONSIBLE FOR LOCATING AND PROTECTING ALL OVERHEAD AND UNDERGROUND UTILITIES WITHIN THE VICINITY OF THE NEW CONSTRUCTION. PRIOR TO THE START OF CONSTRUCTION, THE CONTRACTOR, WORKING WITH THE RESPECTIVE UTILITY COMPANIES, SHALL ACCURATELY LOCATE AND MARK ALL BURIED FACILITIES, INCLUDING SERVICE LINES. ALL EQUIPMENT LABOR, ETC. NECESSARY TO PROPERLY LOCATE THE EXISTING UTILITIES SHALL BE FURNISHED BY THE CONTRACTOR, THE COST OF WHICH SHALL BE INCIDENTAL TO THE WORK.
4.

CONTRACTOR SHALL REPAIR ANY EXISTING STRUCTURE OR UTILITY PIPELINE DAMAGED DURING THE EXECUTION OF THE PROJECT, AT NO ADDITIONAL COSTS TO THE OWNER.
5.

CONTRACTOR IS SOLELY RESPONSIBLE FOR CONSTRUCTING THE PROJECT ACCORDING TO CURRENT NEW MEXICO STANDARD SPECIFICATIONS FOR PUBLIC WORKS CONSTRUCTION (NMSSPWC) AWWA SPECS AND JICARILLA APACHE NATION / JAUA STANDARDS, INCLUDING WHERE PARTICULAR WORK ITEMS ARE NOT SPECIFIED HEREIN.
6.

CONTRACTOR SHALL COMPLY WITH ALL REQUIREMENTS AS SET FORTH IN THE TECHNICAL SPECIFICATIONS AND CONTRACT DOCUMENTS. IT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR TO CONTACT THE ENGINEER REGARDING ANY QUESTION ARISING FROM ANY ASPECT OF THIS PROJECT NOT SPECIFICALLY COVERED IN THE PLANS AND TECHNICAL SPECIFICATIONS, OR ANY CHANGES OR CORRECTIONS TO THE PLANS AND SPECS.
7.

THESE DRAWINGS DO NOT INCLUDE NECESSARY COMPONENTS FOR CONSTRUCTION SAFETY, WHICH SHALL REMAIN WHOLLY THE RESPONSIBILITY OF THE CONTRACTOR. ALL WORK ON THIS PROJECT SHALL BE PERFORMED IN ACCORDANCE WITH APPLICABLE FEDERAL (OSHA), STATE, TRIBAL AND LOCAL LAWS, RULES AND REGULATIONS CONCERNING SAFETY AND HEALTH. ALL EXCAVATION, TRENCHING AND SHORING ACTIVITIES MUST BE CARRIED OUT IN ACCORDANCE WITH OSHA 29 CFR 1926, SUBPART P - EXCAVATIONS.
8.

CONTRACTOR SHALL PROVIDE INGRESS AND EGRESS TO ANY LOCAL BUSINESSES AND RESIDENTS AS REQUIRED FOR THE DURATION OF THE PROJECT. THE CONTRACTOR SHALL ADVISE OF AND SCHEDULE ACCESS CLOSURES AT LEAST 24 HOURS IN ADVANCE WITH PROPERTY OWNERS AND THE ENGINEER.
9.

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. THE CONTRACTOR WILL BE HELD RESPONSIBLE FOR ANY DAMAGE CAUSED BY CONSTRUCTION ACTIVITIES TO PUBLIC OR PRIVATE PROPERTY, INCLUDING UTILITIES.
10.

THE DRAWINGS CONTAIN SPECIFIC EROSION CONTROL FEATURES DESIGNED BY THE ENGINEER TO PROTECT PROJECT FACILITIES FROM EROSION. THESE FEATURES ARE NOT DESIGNED TO PREVENT POLLUTION OF WATERWAYS DUE TO SEDIMENT. THE CONTRACTOR IS WHOLLY RESPONSIBLE TO PROVIDE A STORM WATER POLLUTION PREVENTION PLAN (SWPPP) AND IMPLEMENT THE BEST MANAGEMENT PRACTICES (BMPs) REQUIRED THEREIN, IN ADDITION TO THE FEATURES SHOWN ON THE DRAWINGS. ALL BID ITEMS REFERRING TO SPECIFIC EROSION CONTROL FEATURES, SUCH AS RIPRAP OR ROCK DAMS, ARE APPLICABLE ONLY TO FEATURES DESIGNED BY THE ENGINEER. A SEPARATE BID ITEM(S) IS PROVIDED FOR PREPARATION AND IMPLEMENTATION OF THE CONTRACTOR'S SWPPP.
11.

ALL RIPRAP, ROCK CHECK DAMS AND OTHER EROSION CONTROL FEATURES SHOWN ON THE DRAWINGS ARE APPROXIMATE WITH REGARD TO QUANTITY, LOCATION, DIMENSIONS, SPACING, AND ORIENTATION. EXACT PLACEMENT WILL BE DETERMINED IN FIELD BY ENGINEER AFTER FINAL GRADING IS COMPLETE.
12.

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. ALL DISTURBED AREAS SHALL BE RE-SEEDDED PER THE CONTRACT DOCUMENTS.
13.

FUSIBLE PVC PIPE SHALL BE USED IN LIEU OF ALL RESTRAINED JOINTS AND SHALL BE USED ON BOTH SIDES OF ALL GATE VALVES, CASINGS, AND BENDS. REFER TO SPECIFICATIONS AND DETAIL, SHEET DT-3. IN ADDITION, THE PLAN AND PROFILE SHEETS INDICATE SPECIFIC ADDITIONAL LOCATIONS WHERE FUSIBLE PVC PIPE MUST BE USED IN LIEU OF BELL-AND-SPIGOT PIPE. IN THE ABSENCE OF ANY REQUIREMENT TO USE FUSIBLE PVC PIPE, CONTRACTOR HAS THE OPTION TO USE EITHER FUSIBLE OR BELL-AND-SPIGOT PIPE. IN THESE DRAWINGS, THE TERMS "BELL-AND-SPIGOT PIPE" AND "JOINTED PIPE" ARE USED SYNONYMOUSLY.
14.

ALL MINIMUM PRESSURE RATINGS REQUIRED HEREIN FOR PIPES, VALVES, FITTINGS AND OTHER COMPONENTS REFER TO COLD WATER WORKING PRESSURE RATING, UNLESS OTHERWISE NOTED. PRESSURE RATINGS FOR MANY COMPONENTS ARE ALSO PROVIDED IN THE TECHNICAL SPECIFICATIONS.
15.

VERTICAL CLEARANCES AT WATERLINE CROSSINGS ON PLAN AND PROFILE SHEETS CALLED OUT AS "MIN CLR TO CL" REFER TO MINIMUM CLEARANCE FROM BOTTOM OF EXISTING WATERLINE TO VERTICAL CENTERLINE OF PROPOSED WATERLINE. VERTICAL CLEARANCES FOR CASINGS CALLED OUT AS "MIN CLR TO CASING" REFER TO MINIMUM CLEARANCE FROM BOTTOM OF EXISTING PIPELINE OR FINISHED GRADE TO TOP OF PROPOSED CASING. VERTICAL CLEARANCES AT WASH CROSSINGS CALLED OUT AS "MIN TO CL" REFER TO MINIMUM PIPE DEPTH, MEASURED FROM BOTTOM OF WASH TO VERTICAL CENTERLINE OF PROPOSED WATERLINE.

16.

ALL SCALES ARE BASED ON 11" x 17" SHEET SIZE.

17.

THE PIPELINE WILL TIE-IN TO EXISTING CUTTER LATERAL REACH 24.1 JAN PIPELINE (A.K.A. PHASE 1) AT THE JAN RESERVATION WESTERN BOUNDARY. COORDINATION WITH NAVAJO TRIBAL UTILITY AUTHORITY (NTUA) WILL BE REQUIRED TO TAP INTO REACH 24.1 JAN. NTUA MAY BE REACHED AT (800) 528-5011.

CONTACT INFORMATION:

JAN WATER ADMINISTRATION (OWNER):
DARRYL VIGIL, WATER ADMINISTRATOR: (OFFICE) (575) 759-1198

SOUDER, MILLER & ASSOCIATES (ENGINEER):
RYAN BIEHL, P.E: (OFFICE) (505) 299-0942 (CELL) (505) 610-9883

JICARILLA APACHE UTILITY AUTHORITY (JAUA): (OFFICE) (575) 759-1610
DILBERT NORBERTO, SYSTEM OPERATOR: (CELL) (505) 801-5104

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
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
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
FG	FINISHED GRADE
FIG.	FIGURE
FL	FLANGE
FND.	FOUND
FNPT	FEMALE NATIONAL PIPE THREAD
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
IN.	INCH
INV	INVERT
JAN	JICARILLA APACHE NATION
JANPA	JICARILLA APACHE NATION POWER AUTHORITY
JAUA	JICARILLA APACHE UTILITY AUTHORITY

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
MINPT	MALE NATIONAL PIPE THREAD
M.S.L.	MEAN SEA LEVEL
N	NORTH
N	NORTHING
NG	NATURAL GAS
NGWSP	NAVAJO GALLUP WATER SUPPLY PROJECT
NM	NEW MEXICO
NMDOT	NEW MEXICO DEPARTMENT OF TRANSPORTATION
NMED	NEW MEXICO ENVIRONMENT DEPARTMENT
NN	NAVAJO NATION
NO.	NUMBER
NTS	NOT TO SCALE
NTF	NAVAJO TRIBAL FEE LANDS
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
R	RADIUS
R-	RANGE
REF	REFERENCE
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
TC	TOP OF CONCRETE
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
VERT.	VERTICAL
VLV	VALVE
W	VACUUM RELIEF
W	WATER
W	WEST
W/	WITH
WL	WATERLINE
WP	WORKING PRESSURE
WT	WALL THICKNESS
WW	WATER VALVE
YDS	YARDS
Z	ZENITH

LEGEND

	EXISTING
	BUTTERFLY VALVE
	GATE VALVE
	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
	ROAD EDGE
	ROAD CENTER
	CONTOUR MAJOR
	CONTOUR MINOR
	SECTION CORNER
	BIOLOGICALLY SENSITIVE AREA DO NOT ENCROACH
	SECTION NUMBER
	Jicarilla Apache Nation CURRENT LAND STATUS (OWNER)
	SECTION LINE
	QUARTER SECTION LINE
	TOWNSHIP / RANGE LINE
	PROPERTY LINE
	FENCE
	OHE OVERHEAD POWER LINE
	UGE UNDERGROUND POWER LINE
	TEL OVERHEAD TELEPHONE LINE
	UGT UNDERGROUND TELEPHONE LINE
	W WATER LINE
	G GAS LINE

LEGEND
PROPOSED

	W WATER LINE
	FENCE
	PIPE CASING
	GATE VALVE
	AIR VALVE
	FLUSH VALVE
	DOUBLE SWING GATE
	DIRECTION OF FLOW
	6965 CONTOUR MAJOR
	6964 CONTOUR MINOR
	40' WATERLINE EASEMENT
	TEMPORARY CONSTRUCTION EASEMENT
	ACCESS DRIVE / ROAD
	RIP RAP OR CABLE CRETE
	GRAVEL OVER BASE COURSE
	MATCH LINE

Client: Jicarilla Apache Nation

Location: JAN Border to Teepee Junction, NM

By: Cink

Revision

Date

Description

SMA

Souder, Miller & Associates

Engineering & Environment

Geomatics

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GENERAL NOTES AND LEGEND

JICARILLA APACHE NATION

CUTTER INTERTIE

SANDOVAL COUNTY, NEW MEXICO

Designed
RMB

Drawn
MvH/AaV

Checked
TTT

RYAN M. BIEHL

NEW MEXICO

22281

04-01-2020

PROFESSIONAL ENGINEER

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

NOTICE OF EXTENDED
PAYMENT PROVISION:
THIS CONTRACT ALLOWS THE
OWNER TO MAKE PAYMENT
WITHIN 45 DAYS AFTER
SUBMISSION OF
AN UNDISPUTED REQUEST
FOR PAYMENT.

811

Know what's
below.
Call before
you dig.

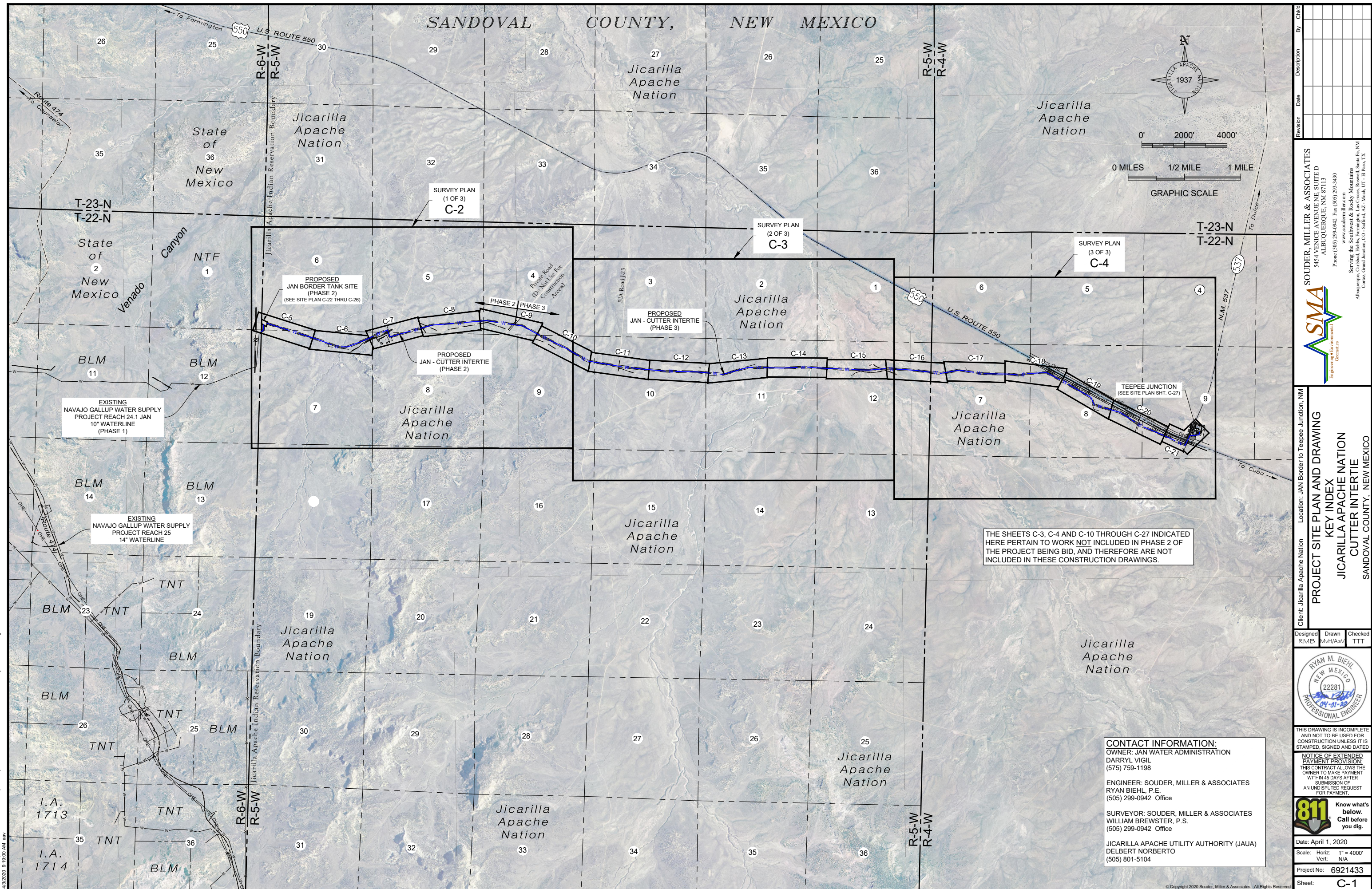
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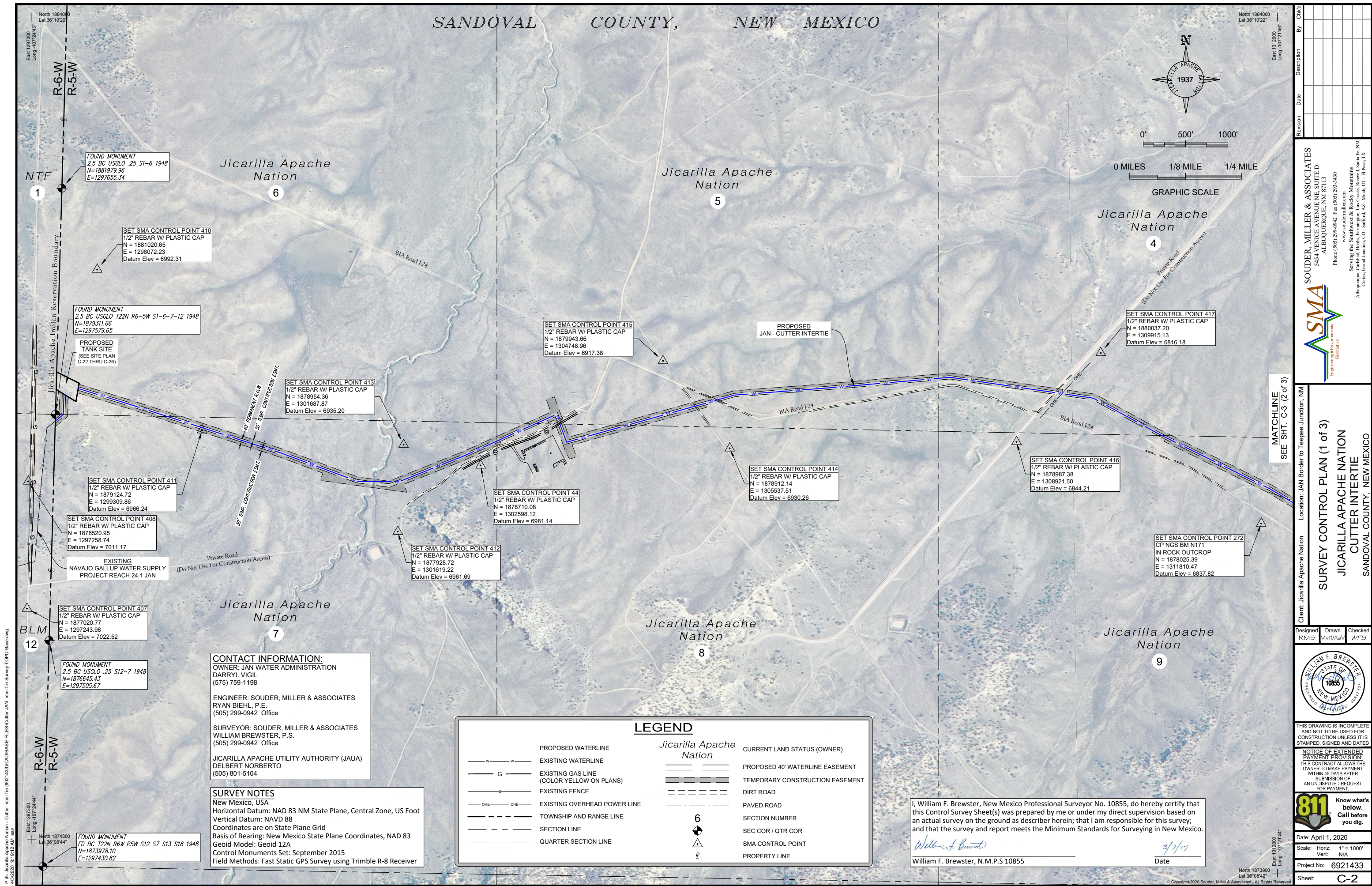
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Project No: 6921433

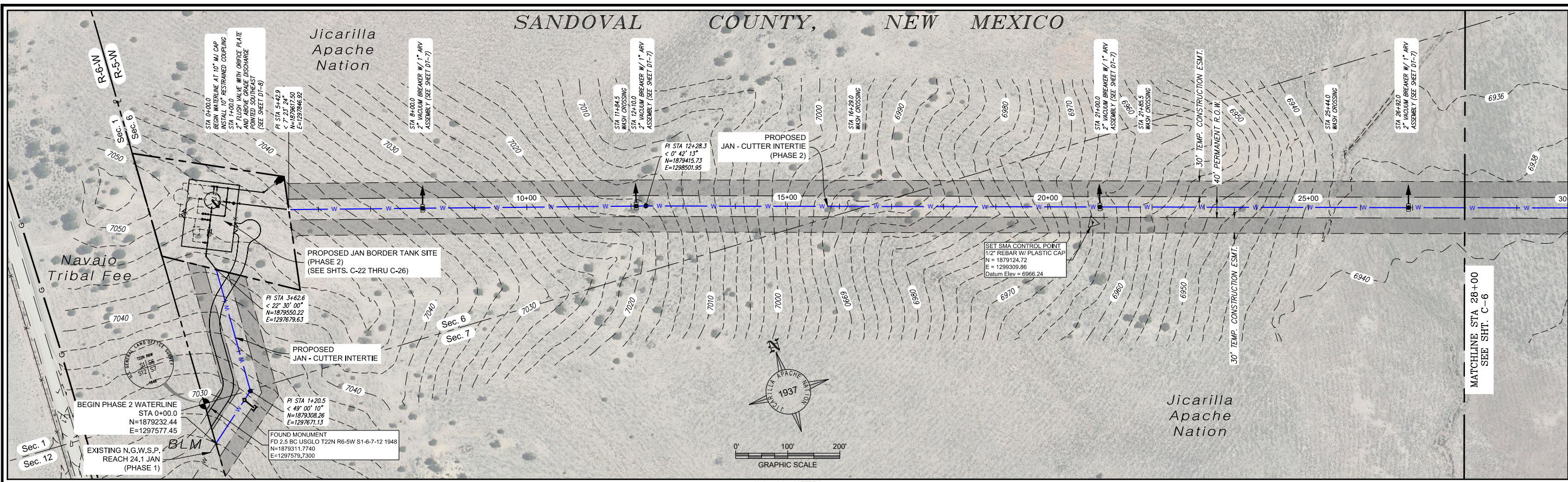
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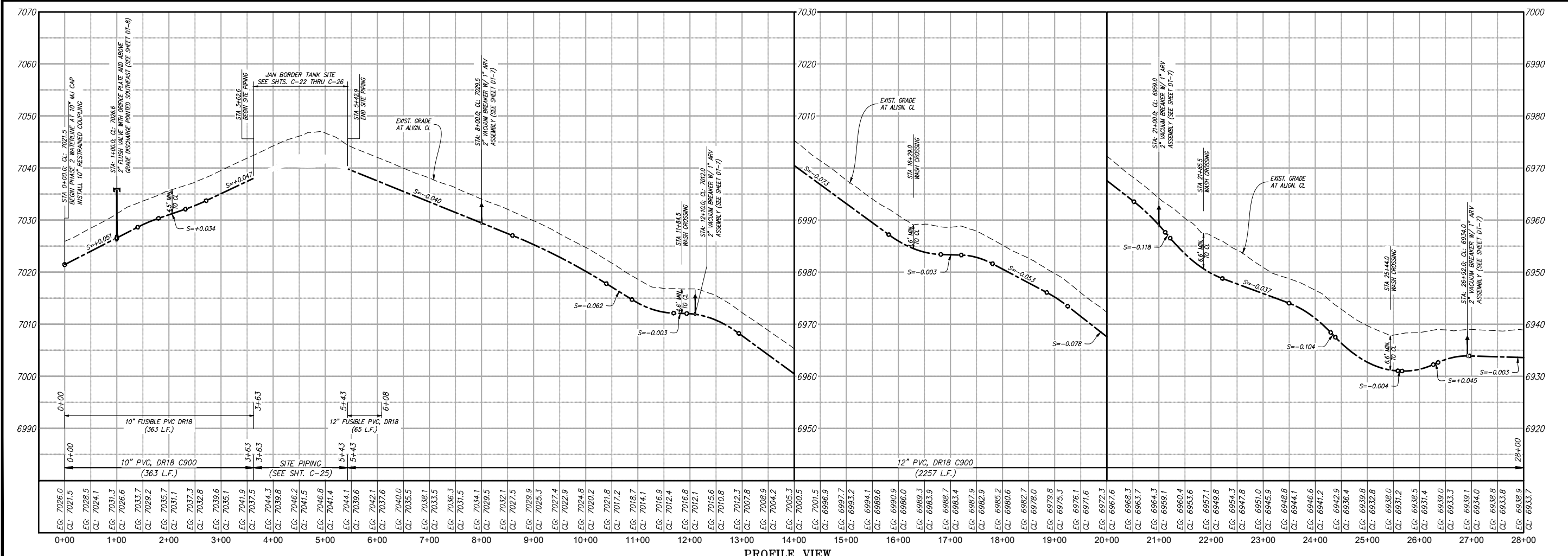




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PLAN VIEW
PHASE 2 10" & 12" WATERLINE



PROFILE VIEW
PHASE 2 10" & 12" WATERLINE

Revision	Date	Description	By	Chk'd

SOUDER, MILLER & ASSOCIATES
5454 VENICE AVENUE, SUITE D
ALBUQUERQUE, NM 87113
Phone (505) 299-0942 Fax (505) 293-3430
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SMA
Engineering & Environmental
Geomatics

Client: Jicarilla Apache Nation
Location: JAN Border to Teepee Junction, NM

PLAN & PROFILE STA 0+00 TO STA 28+00
SECTIONS 6 & 7, T. 22 N., R. 5 W.
JICARILLA APACHE NATION
CUTTER INTERTIE
SANDOVAL COUNTY, NEW MEXICO

Designed	Drawn	Checked
RMB	MvH/AaV	TTT

RYAN M. BIEHL
NEW MEXICO
22281
Professional Engineer
04-01-20

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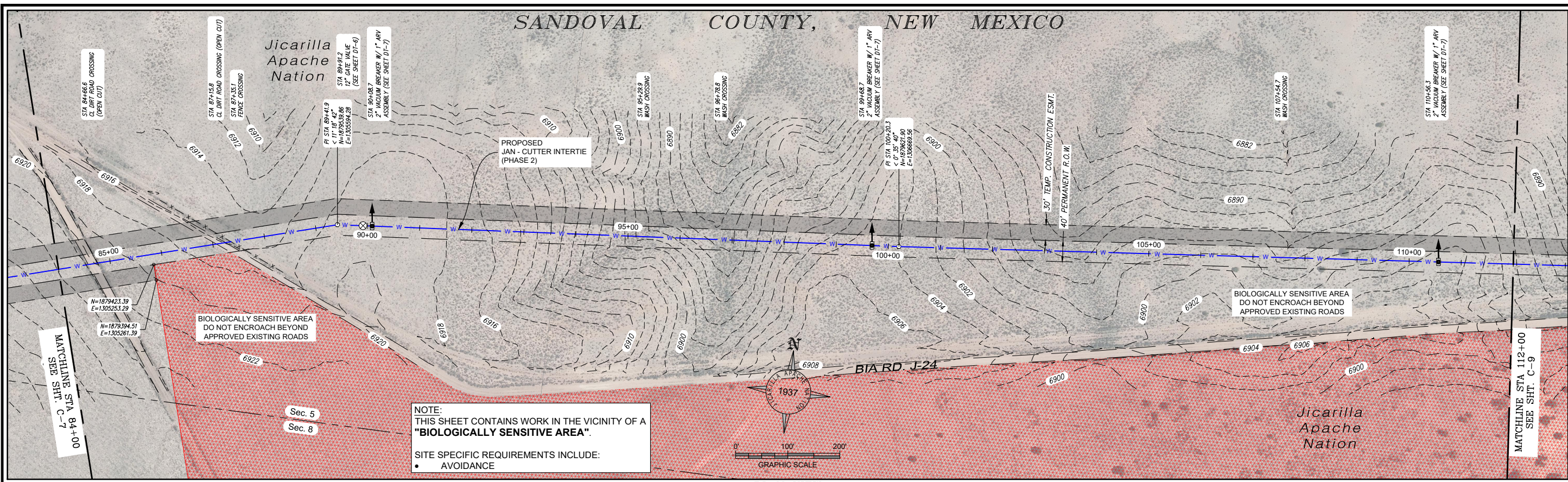
NOTICE OF EXTENDED PAYMENT PROVISION:
THIS CONTRACT ALLOWS THE OWNER TO MAKE PAYMENT WITHIN 45 DAYS AFTER SUBMISSION OF AN UNDISPUTED REQUEST FOR PAYMENT.

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

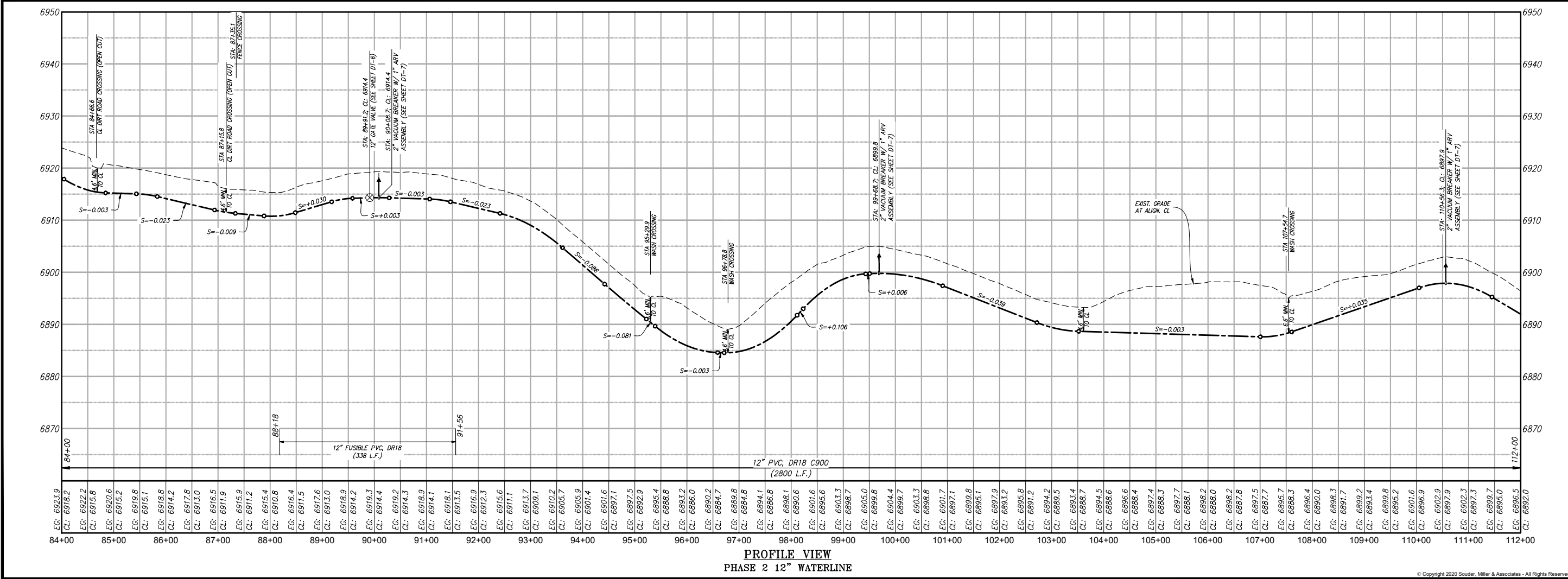
Date: April 3, 2020
Scale: Horiz: 1" = 200'
Vert: 1" = 20'
Project No: 6921433
Sheet: **C-5**

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PLAN VIEW
PHASE 2 12" WATERLINE



PROFILE VIEW
PHASE 2 12" WATERLINE

Revision	Date	Description	By	Chk'd

SMA
Engineering & Environmental
Geomatics

SOUDER, MILLER & ASSOCIATES
5454 VENICE AVENUE, SUITE D
ALBUQUERQUE, NM 87113
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Client: Jicarilla Apache Nation
Location: JAN Border to Treppee Junction, NM

PLAN & PROFILE STA 84+00 TO STA 112+00
SECTION 5, T. 22 N., R. 5 W.
JICARILLA APACHE NATION
CUTTER INTERTIE
SANDOVAL COUNTY, NEW MEXICO

Designed: RMB
Drawn: MvH/AaV
Checked: TTT

RYAN M. BIEHL
NEW MEXICO
22281
Professional Engineer

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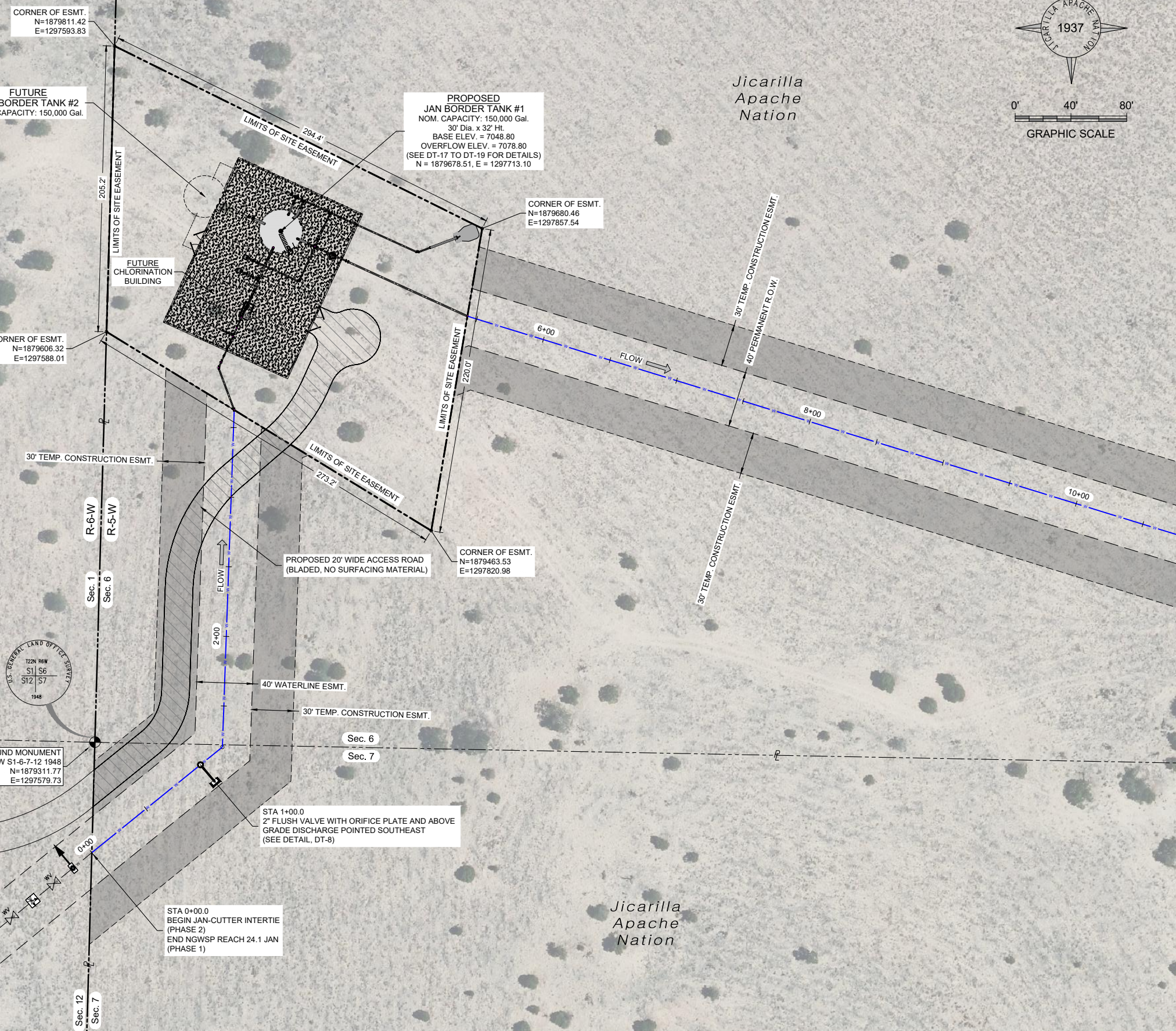
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Date: April 3, 2020
Scale: Horiz: 1" = 200'
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Sheet: **C-8**

SANDOVAL COUNTY, NEW MEXICO
SEC-6, T-22-N, R-5-W
JICARILLA APACHE NATION



ENCANA
CONSTRUCTION COORDINATOR: WESLEY
RODGERS 505-599-2404 OR 720-357-3736
LEAD INSPECTOR: BUD KRAMME 505-330-7096
PRODUCTION COORDINATOR:
TONY FERRARI 505-258-3875
GAS PIPELINE (4" DIA., DEPTH UNKNOWN)
SEC-12, T-22-N, R-6-W

Bureau
of Land
Management

STA 0+00.0
BEGIN JAN-CUTTER INTERTIE
(PHASE 2)
END NGWSP REACH 24.1 JAN
(PHASE 1)

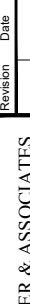
EXISTING N.G.W.S.P.
REACH 24.1 JAN -
(PHASE 1)

FOUND MONUMENT
FD 2.5 BC USGLO T22N R6-5W S1-6-7-12 1948
N=1879311.77
E=1297579.73

A circular seal for the U.S. General Land Office Survey. The outer ring contains the text "U.S. GENERAL LAND OFFICE SURVEY". The center features a grid with the township and range "T22N R6W" at the top, section numbers "S1 S6" and "S12 S7" in the middle, and the year "1948" at the bottom.

PROPOSED 20' WIDE ACCESS ROAD
(BLADED, NO SURFACING MATERIAL)

EXISTING
DIRT ROAD

 SOUDER, MILLER & ASSOCIATES 5454 VENICE AVENUE NE, SUITE D ALBUQUERQUE, NM 87113 Phone (505) 299-0942 Fax (505) 293-3430 www.soudermiller.com Serving the Southwest & Rocky Mountains Albuquerque, Carlsbad, Hobbs, Farmington, Las Cruces, Roswell, Santa Fe, NM Cortez, Grand Junction, CO - Sulford, AZ - Mohav, UT - El Paso, TX	Revision	Date	Description	By	Chkd

Client: Jicarilla Apache Nation	Location: JAN Border to Teepee Junction, NM	
JAN BORDER TANK OVERALL SITE PLAN JICARILLA APACHE NATION CUTTER INTERTIE SANDOVAL COUNTY, NEW MEXICO		
Designed RMB	Drawn MvH/AaV	Checked TTT



RYAN M. BIEHL
NEW MEXICO
22281
04-01-20
PROFESSIONAL ENGINEER

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NOTICE OF EXTENDED PAYMENT PROVISION:
THIS CONTRACT ALLOWS THE OWNER TO MAKE PAYMENT WITHIN 45 DAYS AFTER SUBMISSION OF AN UNDISPUTED REQUEST FOR PAYMENT.

811

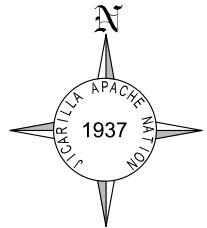
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Date: April 3, 2020
Scale: Horiz: 1" = 100' Vert: N/A
Project No: 6921433
Sheet: C-22

SANDOVAL COUNTY, NEW MEXICO
SEC-6, T-22-N, R-5-W
JICARILLA APACHE NATION

Navajo
Tribal
Fee

Jicarilla
Apache
Nation



0' 20' 40'
GRAPHIC SCALE

LEGEND



2" GRAVEL OVER 3" NMDOT SPECIFICATION BASE COURSE



20' WIDE ACCESS ROAD(BLADED, NO SURFACING MATERIAL)

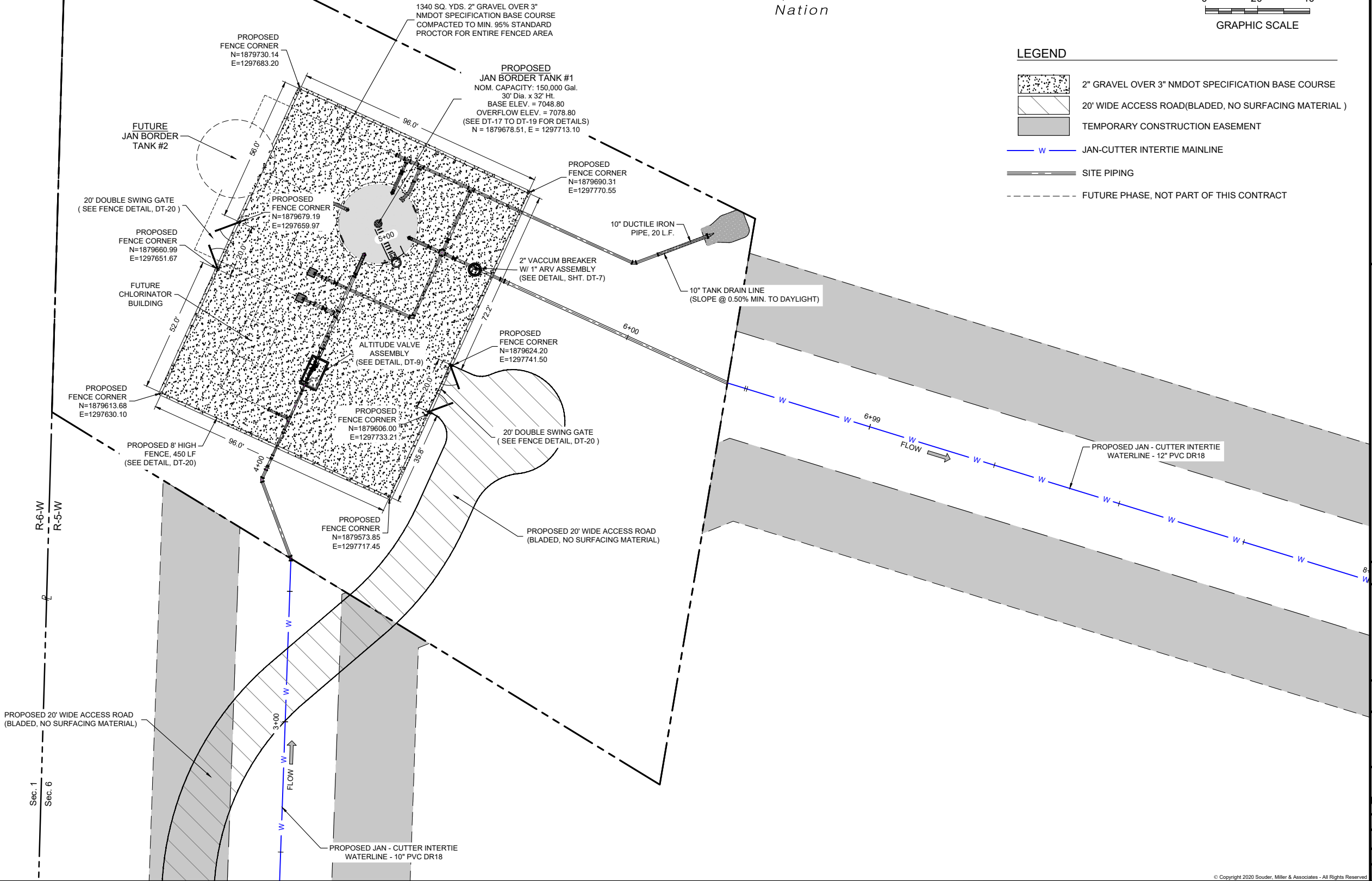


TEMPORARY CONSTRUCTION EASEMENT

W JAN-CUTTER INTERTIE MAINLINE

SITE PIPING

----- FUTURE PHASE, NOT PART OF THIS CONTRACT



Revision	Date	Description

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Client: Jicarilla Apache Nation Location: JAN Border to Teepee Junction, NM
JAN BORDER TANK SITE PLAN
JICARILLA APACHE NATION
CUTTER INTERTIE
SANDOVAL COUNTY, NEW MEXICO

Designed: RMB Drawn: MvH/AaV Checked: TTT



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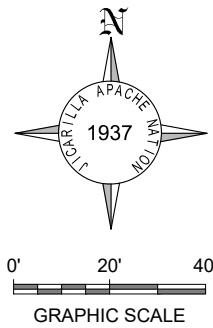
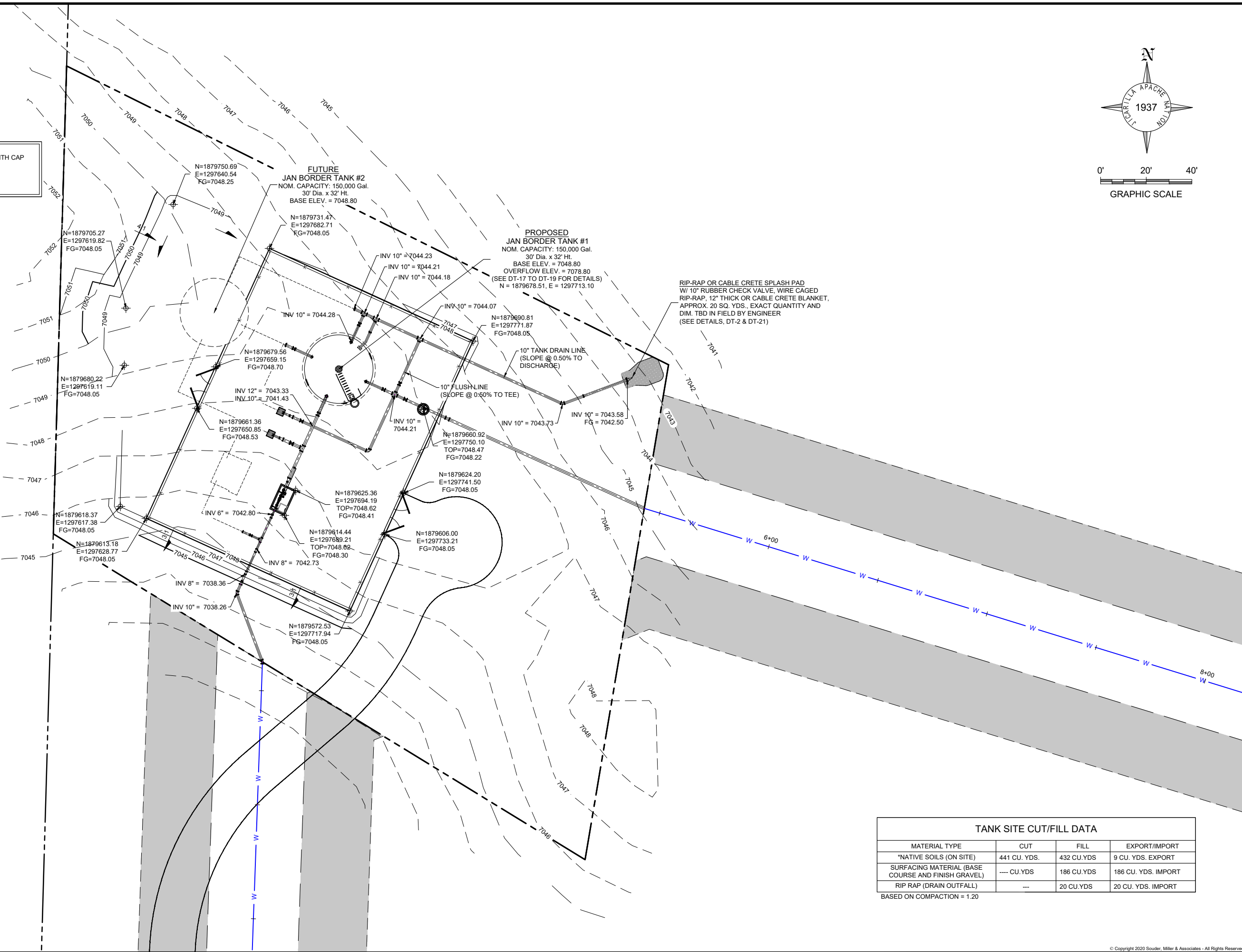
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Date: April 3, 2020
Scale: Horiz: 1" = 40'
Vert: N/A
Project No: 6921433
Sheet: C-23

P:\06 - Jicarilla Apache Nation - Cutter Inter-Tie (6921433)\CADD\CONSTRUCTION PLANS\JAN INTER-TIE Tank Site Plan.dwg
4/3/2020 9:22:49 AM mwh

LOCAL BENCHMARK:
CP #57, A SET 1/2" REBAR WITH CAP
MARKED "SMA CONTROL"
N = 1788644.82
E = 1236502.83
ELEVATION = 6962.29



Client: Jicarilla Apache Nation Location: JAN Border to Teepee Junction, NM

Designed: RMB Drawn: MvH/AaV Checked: TTT

RYAN M. BIEHL
NEW MEXICO
22281
04-01-2020
PROFESSIONAL ENGINEER

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Date: April 3, 2020
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Vert: N/A
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Sheet: C-24

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JAN BORDER TANK SITE GRADING PLAN
JICARILLA APACHE NATION
CUTTER INTERTIE
SANDOVAL COUNTY, NEW MEXICO

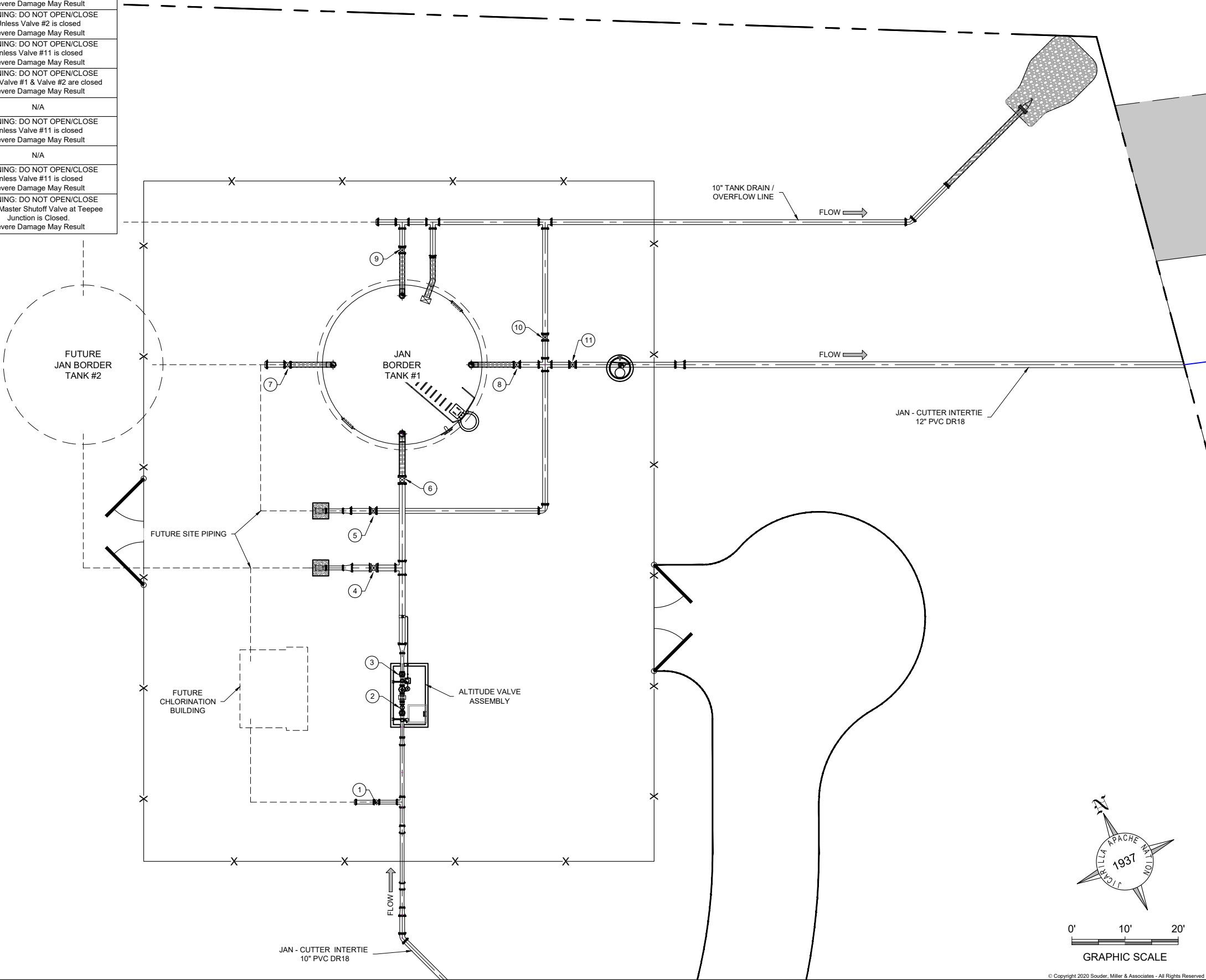
Revision	Date	Description	By	Check

TANK SITE CUT/FILL DATA			
MATERIAL TYPE	CUT	FILL	EXPORT/IMPORT
*NATIVE SOILS (ON SITE)	441 CU. YDS.	432 CU.YDS	9 CU. YDS. EXPORT
SURFACING MATERIAL (BASE COURSE AND FINISH GRAVEL)	--- CU.YDS	186 CU.YDS	186 CU. YDS. IMPORT
RIP RAP (DRAIN OUTFALL)	---	20 CU.YDS	20 CU. YDS. IMPORT

BASED ON COMPACTION = 1.20

TANK SITE - VALVE IDENTIFICATION					
Valve No.	Valve Size	Valve Type	Pipe Type	Description	Additional Text
1	8"	GV	PVC DR18	CHLORINATION BUILDING INLET	WARNING: OPERATE SLOWLY Minimum Open or Close Speed: 180 Seconds Severe Damage May Result
2	6"	BV	DUCTILE IRON	ALTITUDE VALVE INLET	WARNING: OPERATE SLOWLY Minimum Open or Close Speed: 180 Seconds Severe Damage May Result
3	6"	GV	DUCTILE IRON	ALTITUDE VALVE OUTLET	WARNING: DO NOT OPEN/CLOSE Unless Valve #2 is closed Severe Damage May Result
4	12"	GV	PVC DR18	TEMPORARY TANK INLET	WARNING: DO NOT OPEN/CLOSE Unless Valve #2 is closed Severe Damage May Result
5	10"	GV	PVC DR18	TEMPORARY TANK OUTLET	WARNING: DO NOT OPEN/CLOSE Unless Valve #11 is closed Severe Damage May Result
6	12"	GV	STEEL/PVC DR18	TANK #1 INLET	WARNING: DO NOT OPEN/CLOSE Unless Valve #1 & Valve #2 are closed Severe Damage May Result
7	8"	GV	PVC DR18	TANK #2 TO TANK #1 CONNECTION	N/A
8	10"	GV	STEEL/PVC DR18	TANK #1 OUTLET	WARNING: DO NOT OPEN/CLOSE Unless Valve #11 is closed Severe Damage May Result
9	10"	GV	STEEL/PVC DR18	TANK #1 FLOOR DRAIN	N/A
10	10"	GV	PVC DR18	FLUSH VALVE	WARNING: DO NOT OPEN/CLOSE Unless Valve #11 is closed Severe Damage May Result
11	10"	GV	PVC DR18	TANK SITE OUTLET	WARNING: DO NOT OPEN/CLOSE Unless Master Shutoff Valve at Teepee Junction is Closed. Severe Damage May Result

NOTES:
1. REFERENCE SHEET DT-6 FOR SITE VALVE IDENTIFICATION PLACARD DETAILS.
2. VALVE NO. 11 HAS A SPECIAL VALVE BOX AND ADDITIONAL PLACARD REQUIREMENTS. SEE SHEET DT-6.



P:\6- Jicarilla Apache Nation - Cutter Inter-Tie (6921433)\CAD\CONSTRUCTION PLANS\JAN INTERTIE Tank Site Plan.dwg
4/3/2020 9:23:29 AM mvh

By: CML

Revision

Date

Description

SMA

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Client: Jicarilla Apache Nation

Location: JAN Border to Teepee Junction, NM

JAN BORDER TANK SITE VALVE

NUMBERING

JICARILLA APACHE NATION

CUTTER INTERTIE

SANDOVAL COUNTY, NEW MEXICO

Designed: RMB

Drawn: MvH/AaV

Checked: TTT

RYAN M. BIEHL

NEW MEXICO

22281

Professional Engineer

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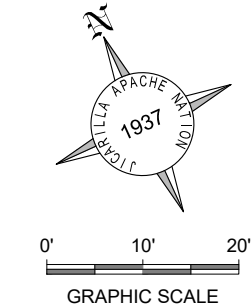
Date: April 3, 2020

Scale: Horiz: 1" = 16'

Vert: N/A

Project No: 6921433

Sheet: C-26



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1. SOIL CEMENT SLURRY MAY BE USED IN LIEU OF COMPACTED SELECT MATERIAL AT CONTRACTOR'S OPTION AND EXPENSE.
2. ANY SECTION OF PIPE EMBEDDED IN COMPACTED SELECT MATERIAL THAT FAILS TO MEET SOIL CLASSIFICATION AND/OR COMPACTION REQUIREMENTS SHALL BE DUG UP, RE-BURIED, RE-COMPACTED AND RE-TESTED AT CONTRACTOR'S SOLE EXPENSE.
3. MINIMUM CLEARANCES BETWEEN PIPE AND TRENCH WALL MUST BE MET PRIOR TO PLACING EMBEDMENT (WHETHER COMPACTED SELECT MATERIAL OR SOIL CEMENT SLURRY). INCREASE CLEARANCES AND/OR TRENCH WIDTH AS NEEDED TO ALLOW FOR COMPACTION AND/OR TO ENSURE ADEQUATE SOIL CEMENT SLURRY LAYER THICKNESS IN HAUNCH AREAS AND PIPE SPRING LINE. DO NOT ALLOW PIPE TO REST AGAINST TRENCH WALL.
4. ROUNDED TRENCH BOTTOMS MAY BE USED IN CONJUNCTION WITH SOIL CEMENT SLURRY, PROVIDED THE THICKNESS OF SOIL CEMENT AROUND THE PIPE IS AT NO POINT LESS THAN 3".



NOTES:

1. ALL COMPACTION VALUES BASED ON STD. PROCTOR, ASTM D698. SOIL CLASSIFICATIONS BASED ON ASTM D2487.
2. EMBEDMENT WITHIN DRIVING SURFACES OF ALL ROADS, DRIVEWAYS, PARKING AREAS, GAS LINES ROW, WASH CROSSINGS, AND AROUND VAULTS AND METER CANS SHALL BE COMPACTED TO AT LEAST 95% STD. PROCTOR, REGARDLESS OF SOIL TYPE. SOIL CEMENT MAY BE USED IN LIEU OF COMPACTED SELECT MATERIAL.





NOT TO SCALE



- NOTES:
1. EXISTING FENCE SHALL NOT BE CUT UNTIL SECURED TO H-BRACE ASSEMBLY.
 2. INSTALL RANCHER STYLE GATE AT ALL FENCE CROSSINGS UNLESS SPECIFICALLY NOTED OTHERWISE ON PLANS.

PULL ASSEMBLY AT FENCE CROSSING

NOT TO SCALE

[illegible]

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Client: Ilcarilla Anache Nation | Location: IAN Border to Teenage Junction NM

MISCELLANEOUS CONSTRUCTION DETAILS

Designed RMB	Drawn MvH/AaV	Checked TTT
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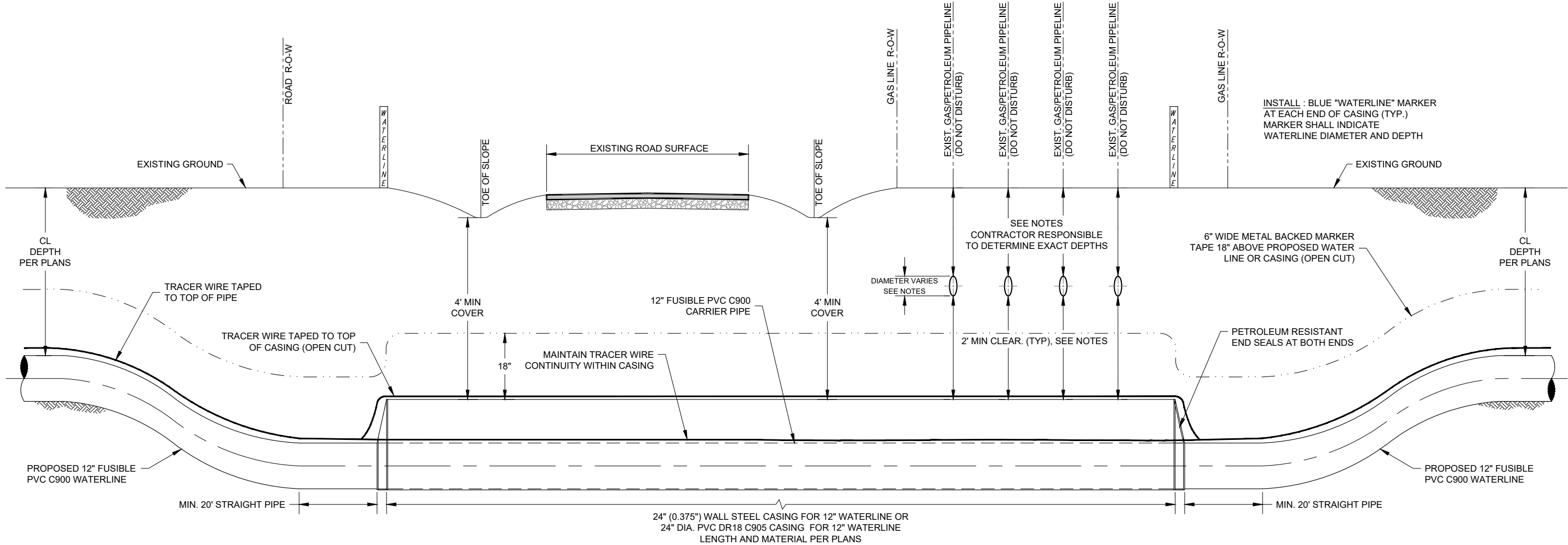
Date: April 1, 2020

Scale: Horiz
Vert:

Project No: 6921433

Sheet: DT-2

P:\6 - Jicarilla Apache Nation - Cutter Inter-Tie (6921433)\CAD\CONSTRUCTION PLANS\30% DETAILS\Cutter JAN Inter-Tie Pipeline X-rings.dwg
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TYPICAL SINGLE/MULTIPLE BURIED UTILITY LINE CROSSING AND OPEN CUT ROAD CROSSING DETAIL

NOT TO SCALE

SPECIAL NOTES AND CONTACTS - BURIED UTILITY LINE CROSSINGS

NOTES:

1. NOTIFY BURIED UTILITY LINE COMPANIES 30 WORKING DAYS AND CALL NM ONE-CALL AT LEAST 3 WORKING DAYS PRIOR TO GRADING, CROSSING, MATERIAL STORAGE, OR EQUIPMENT MOVING ACROSS UTILITY LINE RIGHT-OF-WAY OR ADJACENT ACCESS ROADS.
2. UTILITY LINE COMPANY REPRESENTATIVE MUST BE PRESENT DURING ALL CONSTRUCTION ACTIVITIES WITHIN UTILITY LINE RIGHT-OF-WAY, INCLUDING GRADING, EXCAVATION, AND CLEANUP.
3. CONTRACTOR RESPONSIBLE TO LOCATE AND EXPOSE ALL EXISTING BURIED UTILITY LINES, IN ACCORDANCE WITH UTILITY COMPANY REQUIREMENTS.
4. EXCAVATE BY HAND OR VACUUM DRILL WITHIN 2 FEET OF BURIED UTILITY LINE (OR MORE AS REQUIRED BY UTILITY). IF UTILITY LINE COMPANY APPROVES, CONTRACTOR MAY INSTALL CASING BY BORING.
5. CROSS UNDER UTILITY LINE (2' MIN. CLEARANCE TO TOP OF CASING), UNLESS OTHERWISE NOTED. WHERE MULTIPLE UTILITIES ARE CROSSED IN THE SAME ROW, MAINTAIN MIN. CLEARANCE UNDER THE LOWEST UTILITY LINE.
6. COMPLETE ANY AND ALL ENCROACHMENT AGREEMENTS REQUIRED BY UTILITY LINE COMPANIES. ABIDE BY ALL CONDITIONS STIPULATED BY UTILITY LINE COMPANIES.
7. CONTRACTOR SHALL NOT SUSPEND EXISTING GAS LINE PIPE MORE THAN 12 FEET WITHOUT SOIL BEDDING OR OTHER SUPPORT APPROVED BY GAS LINE COMPANY.
8. HEAVY EQUIPMENT MUST CROSS UTILITY LINES ONLY AT CROSSING LOCATIONS APPROVED BY UTILITY LINE COMPANIES.
9. FOR MINIMUM FUSIBLE PVC PIPE RESTRAINT REQUIREMENTS ON EACH SIDE OF CASING, SEE TABLE DETAIL DT-3. ALL REMAINING CARRIER PIPE WITHIN A 200 FT. RADIUS OF GAS LINE SHALL EITHER BE FUSIBLE PVC OR BELL-AND-SPIGOT PVC WITH PETROLEUM RESISTANT GASKETS. CASING SHALL EITHER BE FUSIBLE PVC WITH INTERIOR WELD BEAD REMOVED OR BELL AND SPIGOT PVC WITH PETROLEUM RESISTANT GASKETS.
10. TRACER WIRE CONTINUITY SHALL BE MAINTAINED ACROSS THE CASING.
11. THE INSIDE OF THE CASING AND THE OUTSIDE OF THE CARRIER PIPE MUST BE FREE OF ANY IRREGULARITIES THAT WOULD CAUSE A POINT LOAD ON CARRIER PIPE. ENGINEER RESERVES THE RIGHT TO REQUIRE SPACERS (MAX. 10' APART) IF CASING OR CARRIER PIPE ARE NOT SUFFICIENTLY SMOOTH AND REGULAR. EXTERIOR WELD BEADS SHALL BE REMOVED FROM FUSIBLE PVC CARRIER PIPE.
12. EXCAVATIONS OUTSIDE THE ROADWAY FORESLOPES SHALL BE COMPACTED AS SPECIFIED IN THE CONSTRUCTION DOCUMENTS. EXCAVATION WITHIN THE TOE OF THE FORESLOPES SHALL BE COMPACTED TO 95% MAXIMUM DRY DENSITY (STANDARD PROCTOR).

(1) = STA: 66+42.3 TO 66+47.7 (APPROX.)
ENDURING RESOURCES, LLC 505-636-9720
LACEY GRANILLO, PERMITTING SPECIALIST;
LGRANILLO@ENDURINGRESOURCES.COM
3 GAS PIPELINES
GAS PIPELINE (3" DIA. STEEL, UNKNOWN BURY DEPTH)
GAS PIPELINE (3" DIA. POLY, UNKNOWN BURY DEPTH)
GAS PIPELINE (3" DIA. POLY, UNKNOWN BURY DEPTH)
SECTIONS - 5 & 8, T-22-N, R-5-W

(2) = STA: 66+64.0 (APPROX.)
HARVEST 505-632-4600
CHRISTOPHER LUCERO - FIELD CONTACT 505-330-6670 (CELL);
505-632-4463 (OFFICE)
EMERGENCY CONTACT - 505-632-4632
GAS PIPELINE (8" DIA., UNKNOWN BURY DEPTH)
SECTIONS - 5 & 8, T-22-N, R-5-W

Revision	Date	Description	By	Chk'd



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Client: Jicarilla Apache Nation
Location: JAN Border to Teepee Junction, NM

**BURIED UTILITY LINE CROSSING
AND ROAD CROSSING DETAILS**
JICARILLA APACHE NATION
CUTTER INTERTIE
SANDOVAL COUNTY, NEW MEXICO

Designed RMB	Drawn MvH/AaV	Checked TTT
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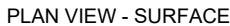
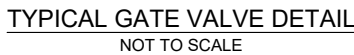
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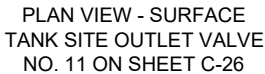


Date: April 1, 2020
Scale: Horiz: Vert:
Project No: 6921433
Sheet: DT-4

1. CONTRACTOR SHALL SCRIBE ALL CONCRETE VALVE COLLARS, PER DETAILS "B" & "C" THIS SHEET. CONCRETE SHALL BE SCRIBED PRIOR TO CURING OR ETCHED AFTER CURING WITH 4" GRINDER.
2. AFFIX WARNING PLACARD TO VALVE BOX COVER INSIDE METER CAN FOR ALL MAINLINE VALVES.
3. AFFIX ALUMINUM VALVE IDENTIFICATION PLATES TO ALL SITE VALVE COLLARS, PER DETAILS "B" & "C" THIS SHEET. REFER TO SHEET C-30 FOR SITE VALVE-SPECIFIC LABELING.
4. ALL MATERIALS SHALL BE WORKING PRESSURE RATED TO AT LEAST 235psi, UNLESS OTHERWISE NOTED.
5. ALL BURIED VALVES SHALL BE COATED WITH FUSION BONDED EPOXY, INTERIOR AND EXTERIOR.
6. NOTE VALVE ENDS SHALL BE AS INDICATED ON PLANS.
7. FLANGES SHALL BE ANSI CLASS 125 (IRON).
8. INSTALL CARBONITE VALVE MARKERS ON BOTH SIDES OF VALVE, 3'-0" FROM CENTER OF VALVE. SEE DETAIL, SHT. DT-2.



DETAIL "A" TYPICAL TANK SITE VALVE BOX, COLLAR AND
VALVE ID PLACARD DETAIL - USE WITHOUT WARNING PLACARD
NOT TO SCALE



DETAIL "B" TYPICAL MAINLINE VALVE BOX, COLLAR AND
VALVE ID PLACARD DETAIL - USE WITH WARNING PLACARD
NOT TO SCALE



DETAIL "C" TYPICAL WARNING PLACARD DETAIL
NOT TO SCALE

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Client: Jicarilla Apache Nation	Location: JAN Border to Trepesee Junction, NM
---------------------------------	---

GATE VALVE DETAIL JICARILLA APACHE NATION CUTTER INTERTIE SANDOVAL COUNTY, NEW MEXICO		
---	--	--

Designed RMB	Drawn MvH/ASv	Checked TTT
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RYAN M. BIEHL
NEW MEXICO
22281
01-01-20
PROFESSIONAL ENGINEER

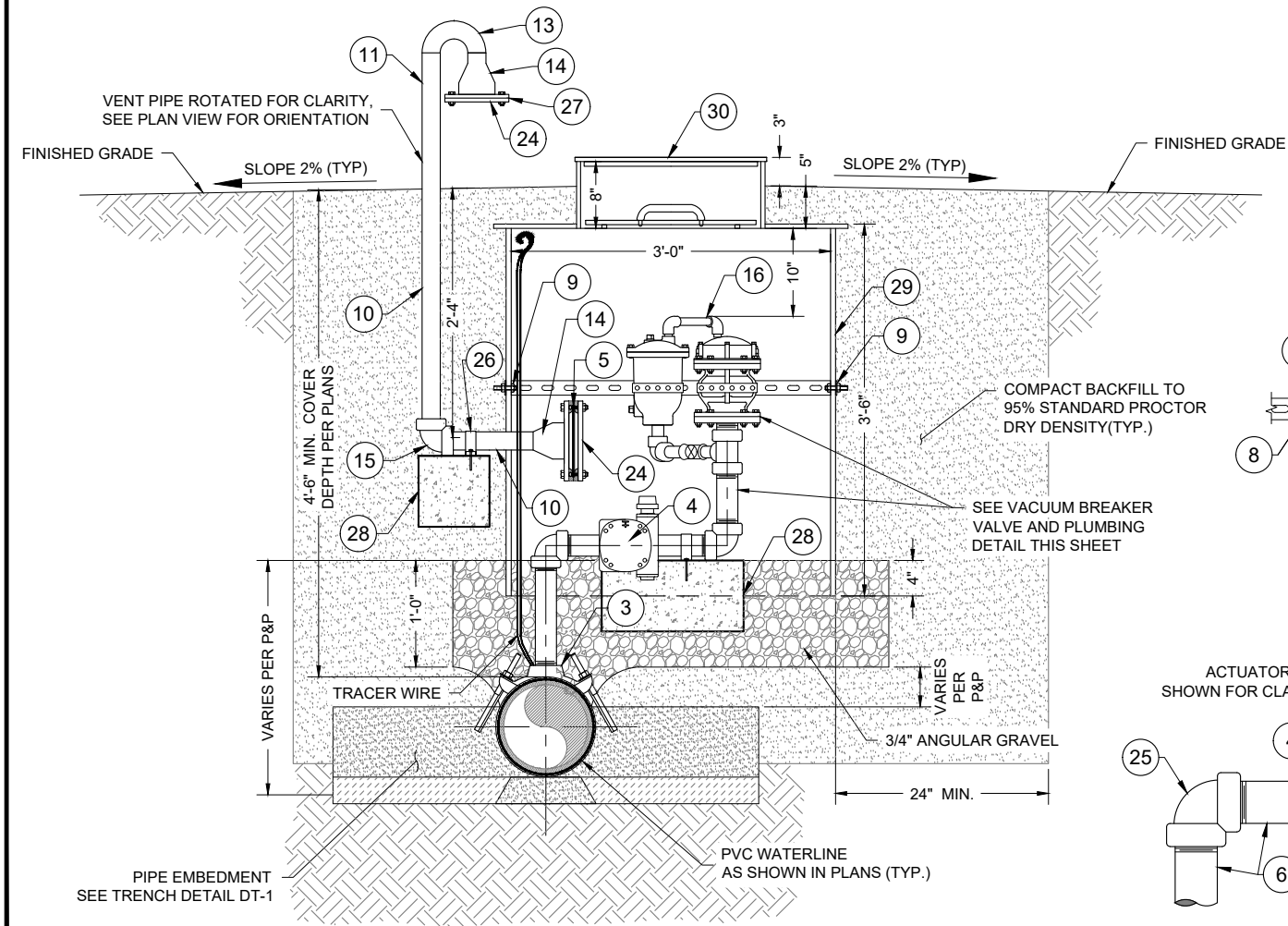
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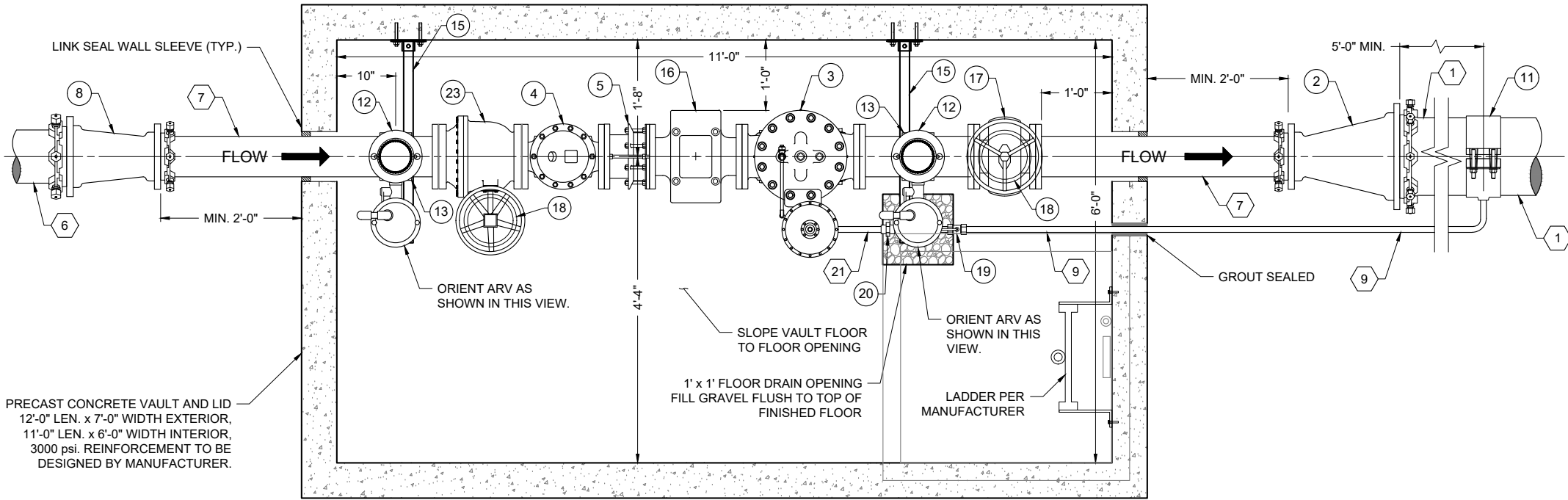
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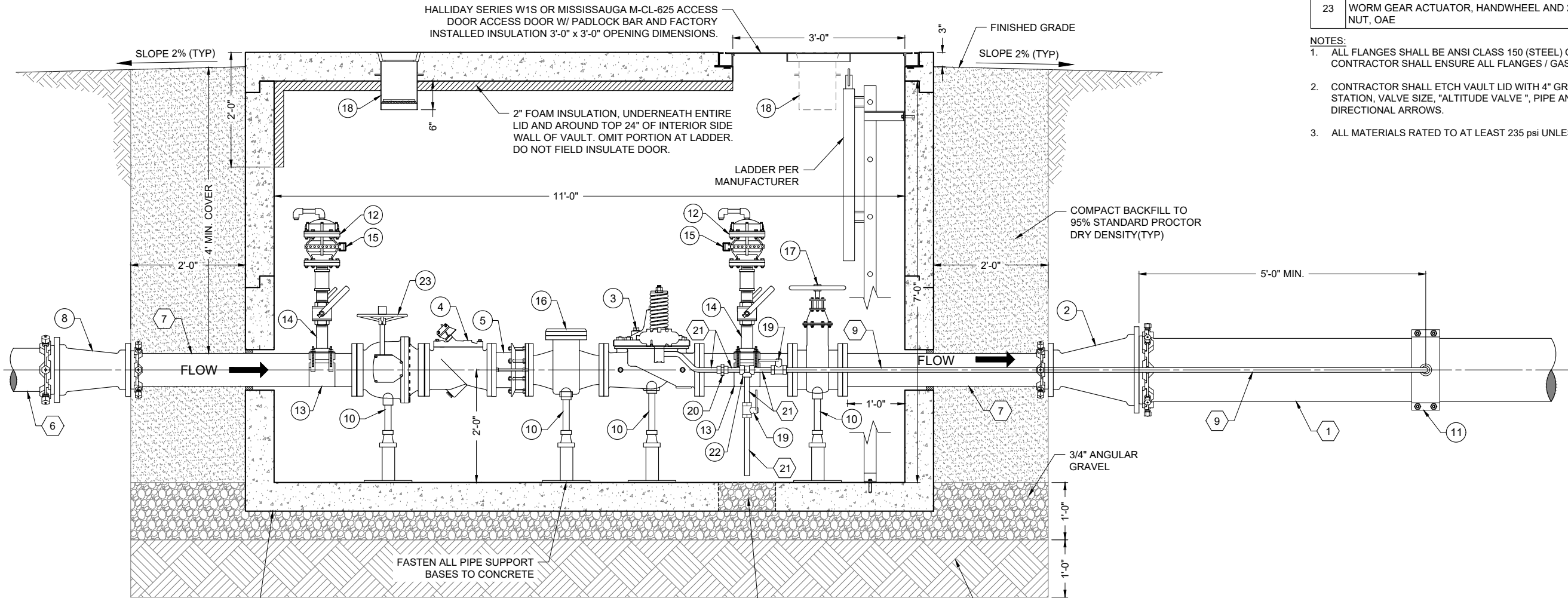
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Project No: 6921433
Sheet: DT-6





PLAN VIEW



ELEVATION VIEW
ALTITUDE VALVE VAULT DETAIL

KEYED NOTES - 6" ALTITUDE VALVE ASSEMBLY

Item No.	Description
1	12" PVC, DR18
2	12" x 6" MJ x MJ REDUCER, D.I.
3	6" ALTITUDE VALVE, CLA-VAL VALVE MODEL 210-03KO
4	6" CHECK VALVE, VALMATIC SURGE BUSTER SERIES 7200, OAE
5	6" DISMANTLING JOINT, FBE COATED W/ 304 SS BOLTS, ROMAC MODEL DJ400, AWWA C207 CLASS E FLANGE, OAE
6	8" PVC, DR18
7	6" FL x PE SPOOL, D. I.
8	8" x 6" MJ x MJ REDUCER, D.I.
9	1" ANNEALED STAINLESS STEEL PILOT LINE
10	ADJUSTABLE PIPE SUPPORT W/ CRADLE
11	12" x 1" TAPPING SADDLE, D.I. W/ FUSION BONDED NYLON COATING, SS 304 DUAL STRAPS AND SS 304 BOLT KIT, FNPT, ROMAC 202 NS, OAE
12	2" VACUUM BREAKER W/ 1" ARV, AS PER "VACUUM BREAKER VALVE DETAIL", SHEET DT-7 (SEE PLAN VIEW FOR ORIENTATION)
13	6" x 2" TAPPING SADDLE, D.I. W/ FUSION BONDED NYLON COATING, SS 304 DUAL STRAPS AND SS 304 BOLT KIT, FNPT, ROMAC 202 NS, OAE
14	2" NIPPLE, SS304, NPT, 6" IN LENGTH
15	1 5/8" GALVANIZED UNI-STRUT
16	6" H STRAINER FL x FL, CLA-VAL MODEL X43H, OAE
17	6" FL x FL GATE VALVE W/ HANDWHEEL & 2" SQUARE OPERATING NUT
18	CAST IRON VALVE BOX W/ LOCKING LID (SHIPPED LOOSE)
19	1" BALL VALVE, SS 304
20	1" UNION, SS 304
21	1" NIPPLE, SS 304 SCH 40
22	1" TEE, SS 304 SCH 40
23	6" VALMATIC DOUBLE-SEATED AWWA BALL VALVE W/ AUMA GS100.3 WORM GEAR ACTUATOR, HANDWHEEL AND 2" SQUARE OPERATING NUT, OAE

- NOTES:
- ALL FLANGES SHALL BE ANSI CLASS 150 (STEEL) OR ANSI CLASS 125 (IRON). CONTRACTOR SHALL ENSURE ALL FLANGES / GASKETS ARE COMPATIBLE.
 - CONTRACTOR SHALL ETCH VAULT LID WITH 4" GRINDER AS FOLLOWS: PIPE STATION, VALVE SIZE, "ALTITUDE VALVE ", PIPE AND MATERIAL, WITH DIRECTIONAL ARROWS.
 - ALL MATERIALS RATED TO AT LEAST 235 psi UNLESS OTHERWISE SPECIFIED.

Client: Jicarilla Apache Nation

Location: JAN Border to Treppee Junction, NM

Altitude Valve Vault Detail

JICARILLA APACHE NATION

CUTTER INTERTIE

SANDOVAL COUNTY, NEW MEXICO

Designed
RMB

Drawn
MvH/AaV

Checked
TTT

RYAN M. BIEHL

NEW MEXICO

22281

PROFESSIONAL ENGINEER

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

NOTICE OF EXTENDED PAYMENT PROVISION: THIS CONTRACT ALLOWS THE OWNER TO MAKE PAYMENT WITHIN 45 DAYS AFTER SUBMISSION OF AN UNDISPUTED REQUEST FOR PAYMENT.

811

Know what's below. Call before you dig.

Date: April 3, 2020

Scale: Horiz: Vert:

Project No: 6921433

Sheet: DT-9

By: CML

Revision

Date

SOUDER, MILLER & ASSOCIATES

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ALBUQUERQUE, NM 87113

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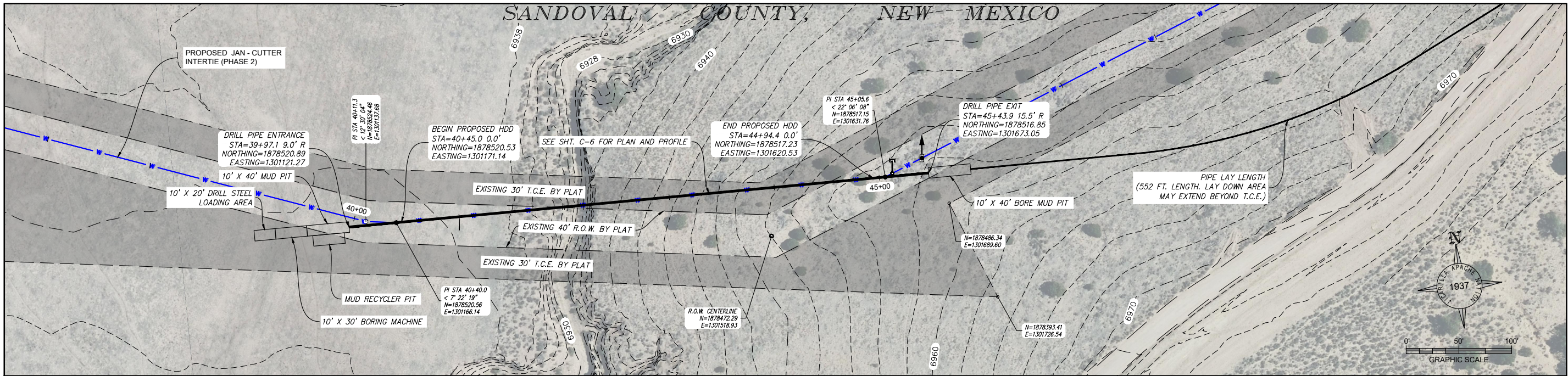
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SMA

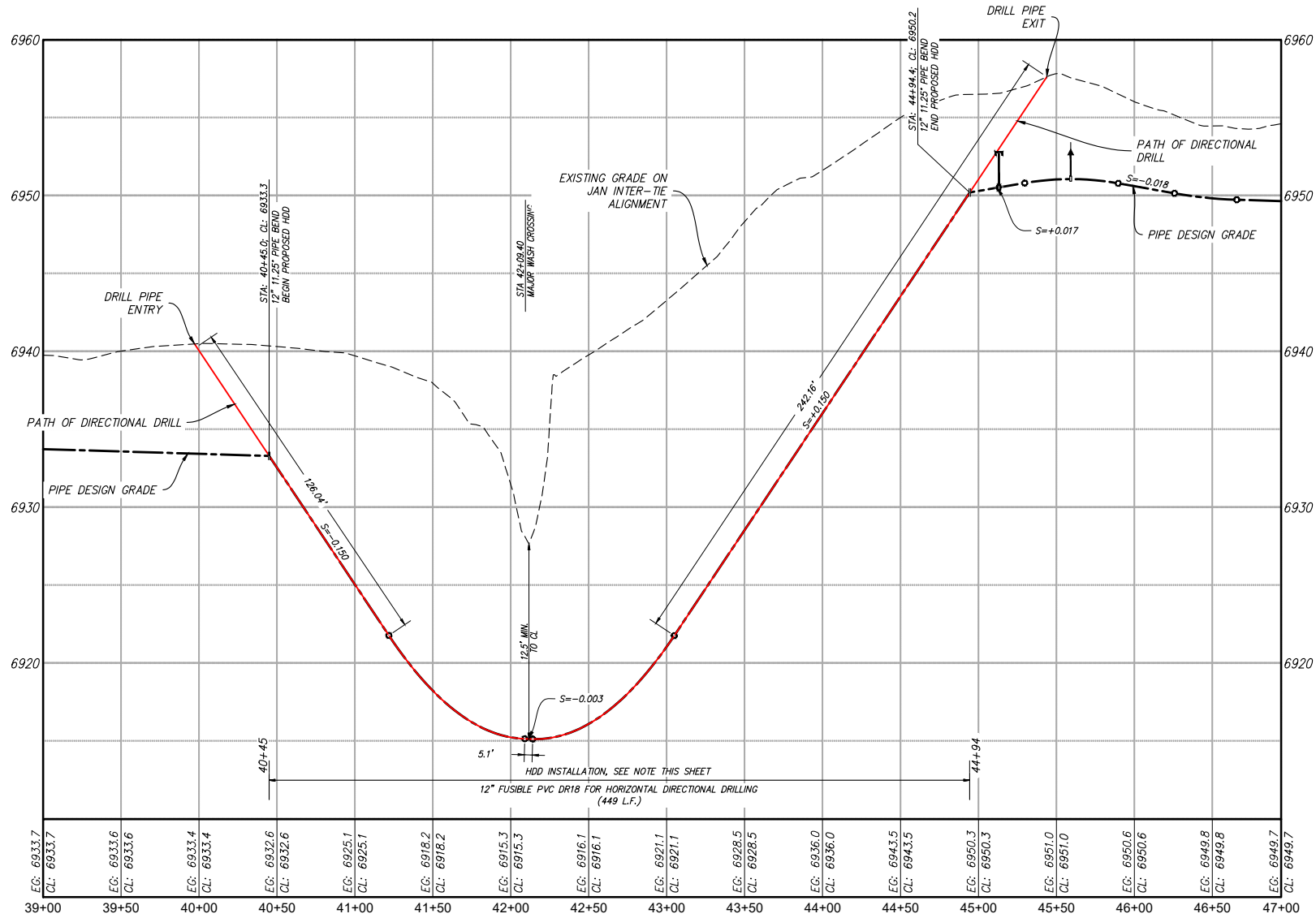
Engineering & Environment

Geomatics

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PLAN VIEW
12" WATERLINE



PROFILE VIEW
12" WATERLINE

- NOTES:
1. MINIMUM ALLOWABLE BEND RADIUS = 500'
 2. FUSIBLE PVC PIPE TO BE PRESSURE TESTED ABOVE GROUND PRIOR TO INSTALLATION PER TECHNICAL SPECIFICATIONS.

Revision	Date	Description	By	CHK'd

SMA
Engineering & Environment
Geomatics

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Client: Jicarilla Apache Nation Location: JAN Border to Teepee Junction, NM

WASH CROSSING STA 42+10 PIPELINE HDD DETAIL
SECTION 7, T. 22 N., R. 5 W.
JICARILLA APACHE NATION
CUTTER INTERTIE
SANDOVAL COUNTY, NEW MEXICO

Designed	Drawn	Checked
RMB	MvH/AaV	TTT



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NOTICE OF EXTENDED PAYMENT PROVISION:
THIS CONTRACT ALLOWS THE OWNER TO MAKE PAYMENT WITHIN 45 DAYS AFTER SUBMISSION OF AN UNDISPUTED REQUEST FOR PAYMENT.



Date: April 2, 2020

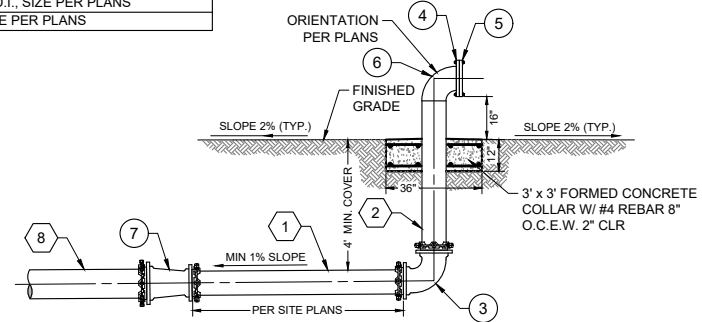
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Vert: 1" = 10'

Project No: 6921433

Sheet: DT-11

1. FOUNDATION AND TANK STRUCTURAL DESIGN DRAWINGS AND CALCULATIONS (SEALED BY NEW MEXICO-LICENSED PROFESSIONAL ENGINEER) TO BE PROVIDED BY TANK MANUFACTURER. FOUNDATION SHALL BE EITHER CONCRETE OR STEEL RING, BASED ON LICENSED P.E.'s DESIGN.
2. FOUNDATIONS SHOWN IN DRAWING ARE FOR REFERENCE ONLY. DIAMETER OF FOUNDATION TO BE BASED ON P.E.'s DESIGNED FOUNDATION.
3. SUB-FOUNDATION PER GEOTECHNICAL INVESTIGATION REPORT (REFER TO CONTRACT DOCUMENTS).
4. TANK COLOR TO BE DETERMINED BY OWNER.
5. TANK APPURTENANCES SHOWN IN ELEVATION VIEW HAVE BEEN ROTATED INTO VIEW FOR DEPICTION PURPOSES.
6. ALL BURIED STEEL PIPE AND WELDED FITTINGS SHALL BE EXTERIOR COATED W/ COAL TAR EPOXY AND COLD APPLIED TAPE COATING PER SPECIFICATIONS, AND INTERIOR COATED TO MATCH TANK INTERIOR SIDE WALL.
7. ALL STEEL PIPE AND FITTINGS UNDERNEATH AND WITHIN 5' OF TANKS OR BUILDINGS SHALL BE SHOP WELDED AND COATED, X-RAY TESTED AND PRESSURE TESTED PRIOR TO POURING FOUNDATIONS. SHOP COATING SHALL BE APPLIED AFTER WELDING.

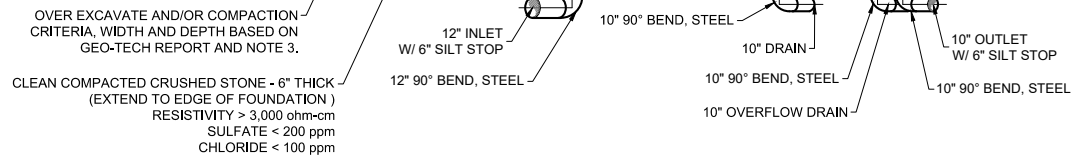
8. ALL STEEL PIPE AND FITTINGS SHALL BE STANDARD WALL UNLESS OTHERWISE NOTED.
9. SANDBLASTING WASTE SHALL BE DISPOSED OF OFF-SITE AT AN APPROVED SOLID WASTE FACILITY AT THE CONTRACTOR'S EXPENSE.
10. ALL STEEL PIPE FLANGES SHALL BE ANSI CLASS 150.
11. EXACT ORIENTATION OF ALL TANK FEATURES AND PIPE PENETRATIONS TO BE DETERMINED IN THE FIELD BY THE ENGINEER. TANK MANUFACTURER SHALL CONFIRM ALL LOCATIONS W/ ENGINEER PRIOR TO FABRICATION. SOME FEATURES MAY BE ROTATED IN ELEVATION VIEW FOR CLARITY.
12. DIMENSIONS INDICATING SEPARATION BETWEEN WEIR FROM ROOF ARE MINIMUMS ONLY. ACTUAL DIMENSIONS MAY BE GREATER TO ACCOMMODATE SLOSH WAVE, AS CALCULATED BY TANK MANUFACTURER.



TEMPORARY TANK HOOK-UP DETAIL
NOT TO SCALE

NOTES:

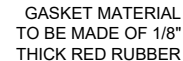
1. ALL MATERIALS SHALL BE RATED TO AT LEAST 235 psi, UNLESS OTHERWISE NOTED.
2. ALL STEEL PIPE AND FITTINGS SHALL HAVE INTERIOR MORTAR LINING AND EXTERIOR FBE COATING. ALL BURIED METALLIC PIPE AND FITTINGS SHALL BE TAPE WRAPPED OR POLY-WRAPPED PER SPECIFICATIONS.
3. FLANGES SHALL BE ANSI CLASS 150 (STEEL) OR ANSI CLASS 125 (IRON).
4. ALL STEEL PIPE AND FITTINGS SHALL BE STANDARD WALL.
5. VALVE BOX LID AND ALL ABOVE GROUND STEEL COMPONENTS SHALL BE COATED BLUE.



ELEVATION VIEW

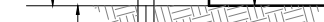


NOT TO SCALE



NOT TO SCALE

ITEM	NAME	MATERIAL
1	ELBOW, 90°	TEMPERATURE ULEM PULLEY A356 ALUMINUM WITH HIGH
2	TOP ANCHOR TENSIONER	WITH STAINLESS STEEL SPRING HDG STEEL TENSIONER ASSEMBLY
3	BOTTOM ANCHOR	STAINLESS STEEL ANGLE
4	S/S FLOAT- 16#	WELD. FOAM FILLED .045H STAINLESS STEEL
5	CABLE FASTENERS	304 STAINLESS STEEL CRIMP & THIMBLE
6	GAUGE BOARD	16 GA HDG "C" CHANNEL
7	STD. TP BRACKETS	STAINLESS STEEL
8	FLOAT GUIDE WIRE	1/8" - 304 STAINLESS STEEL
9	FLOAT CABLE	3/32" - 304 STAINLESS STEEL
10	GAGE TAPE	ADHESIVE BACKED VINYL
11	BRACKET	STAINLESS STEEL
12	ROUND TARGET-9.5#	RED, POWDER COATED, DUCT. IRON
13	BOLT & NUT SETS	304 STAINLESS STEEL
14	PIPE (INCLUDED IN KIT)	1-1/2" x 16 HDG PIPE
15	PIPE (INCLUDED IN KIT)	1-1/2" x 14 HDG PIPE W/ PLUG
16	PIPE (INCLUDED IN KIT)	1-1/2" x 4 HDG PIPE
17	TRUSS HEAD S/S BOLTS, NYLOC NUTS & WASHERS	
18	1/2 TRAVEL PULLEY	STAINLESS STEEL



ELEVATION VIEW

SEE TANK PLAN AND ELEVATION SHEETS
DT-17, FOR PIPE SIZE, HEIGHT
AND ELEVATION.

1. DII

1. DIMENSIONS INDICATING SEPARATION BETWEEN WEIR FROM ROOF ARE MINIMUMS ONLY. ACTUAL DIMENSIONS MAY BE GREATER TO ACCOMMODATE SLOSH WAVE, AS CALCULATED BY TANK MANUFACTURER.
2. SHOP PAINT ALL RAFTERS, SEE PAINT SCHEDULE FOR INTERIOR PRIME AND FINISH COATINGS.
3. TANK MANUFACTURER SHALL PROVIDE DESIGN CALCULATIONS AND FABRICATION DRAWINGS SEALED BY A NEW MEXICO LICENSED PROFESSIONAL ENGINEER.

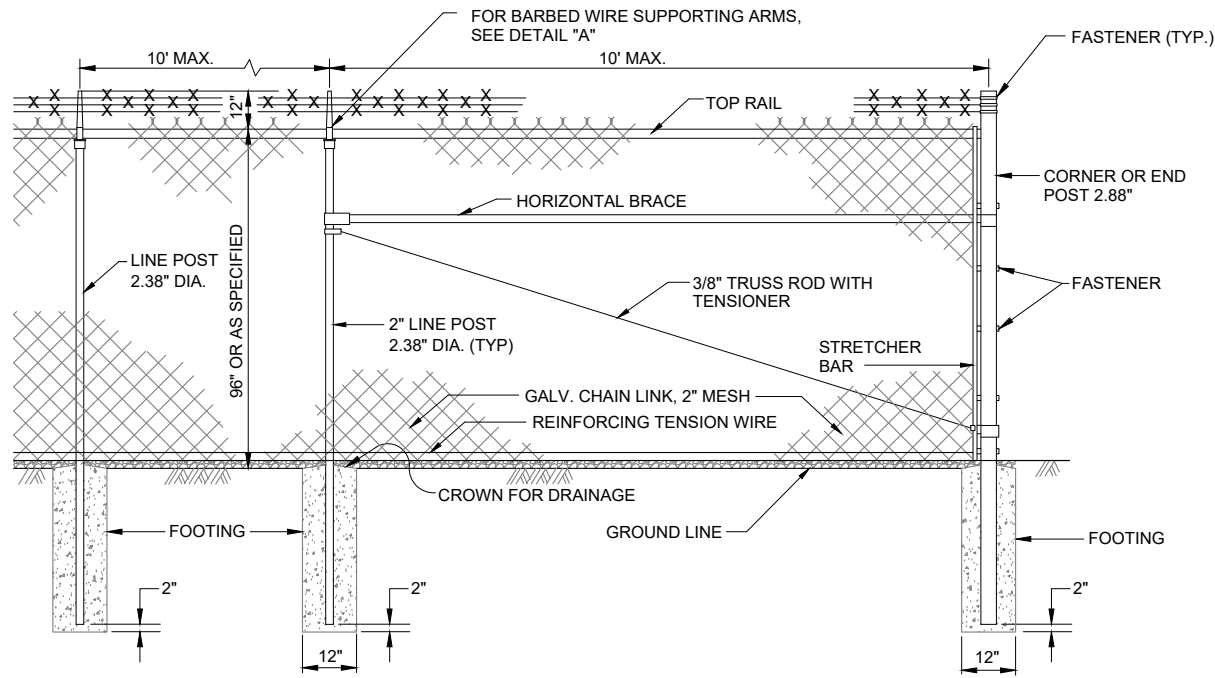


PLAN VIEW

H. 40 STEEL PIPE \

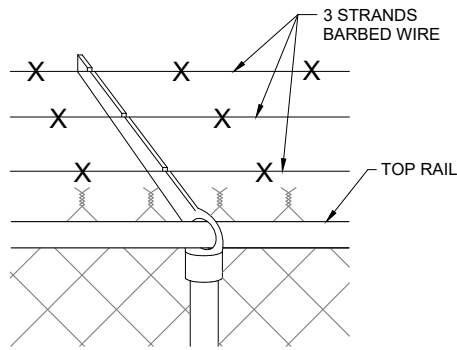
NOTE:
DIMENSIONS OF WEIR AND APPURTENANCES PROVIDED ARE MINIMUMS. ACTUAL DIMENSIONS MAY BE LARGER TO PROVIDE FOR DESIGN FLOW RATES SPECIFIED IN THE TECHNICAL SPECIFICATIONS. ACTUAL WEIR DIMENSIONS SHALL BE PROVIDED AS PART OF THE TANK MANUFACTURER'S PROFESSIONAL ENGINEER SEALED DESIGN.

P:\6 - Jicarilla Apache Nation - Cutter Inter-Tie (6921433)\CAD\CONSTRUCTION PLANS\30% DETAILS\Cutter JAN Inter-Tie Fence Details.dwg
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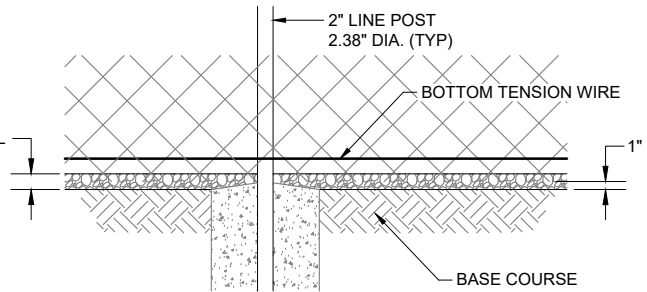


CHAIN LINK FENCE
NOT TO SCALE

- NOTES:
1. AT BROW CROSSING, EMBED ON 6" CENTERS, 4-11/2" x 24" GALVANIZED RODS WITH 2" HOOKED END INTO BROW DITCH CONCRETE. EXPOSED END OF ROD SHALL BE WOVEN INTO FENCE FABRIC.
 2. EMBED BOTTOM OF FABRIC 1" INTO THE 2" THICK GRAVEL LAYER.



DETAIL "A" SUPPORTING ARM & BARBED WIRE
NOT TO SCALE

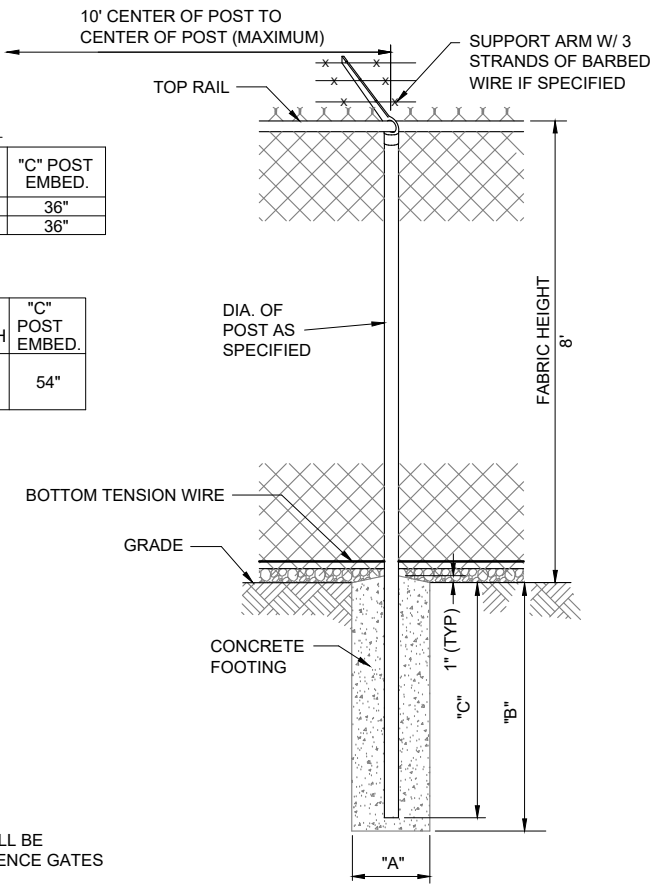


BASE COURSE AND GRAVEL DETAIL
NOT TO SCALE

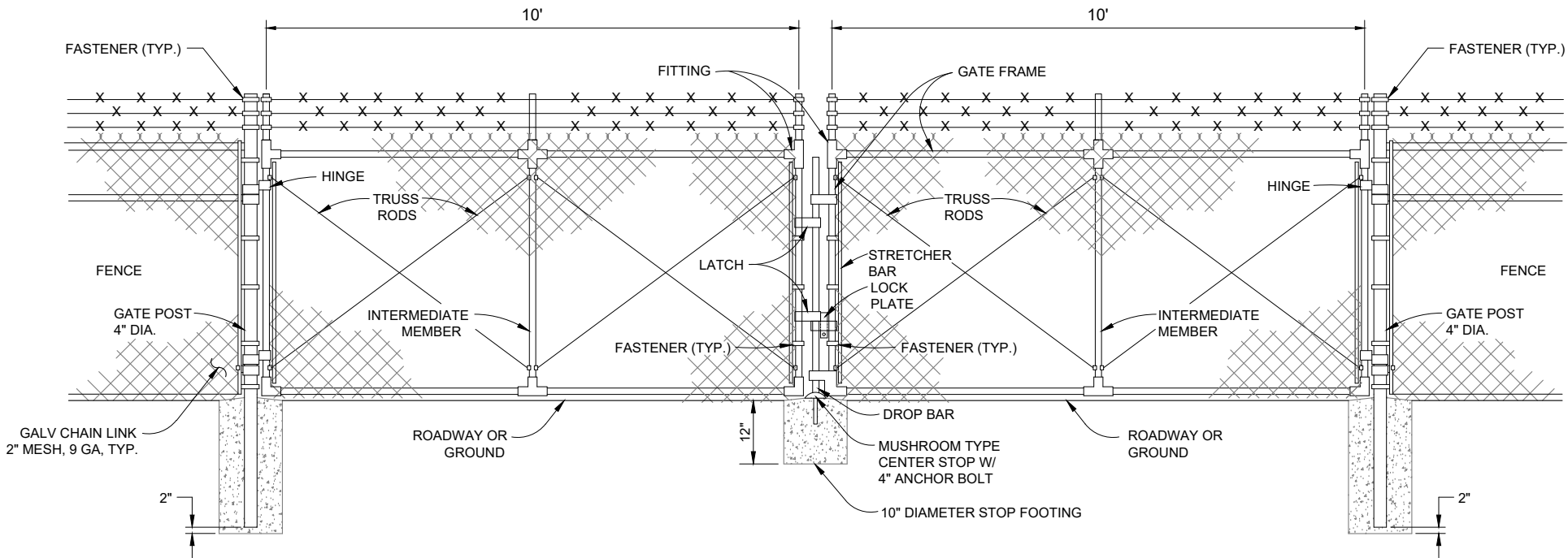
LINE AND TERMINAL POSTS				
FABRIC HEIGHT	TYPE POST	"A" DIAM	"B" DEPTH	"C" POST EMBED.
8'-0"	LINE	12"	38"	36"
	TERMINAL	12"	38"	36"

GATE POST				
GATE LEAF WIDTH	GATE POST (OD)	FABRIC HEIGHT	"A" DIAM	"B" DEPTH
10'	4"	8'	16"	56"

- NOTES:
1. COMMON LOCKS SHALL BE PROVIDED FOR ALL FENCE GATES
 2. TERMINAL POSTS INCLUDE END, CORNER, AND PULL POSTS



CHAIN LINK FENCE FOUNDATION
NOT TO SCALE



20' DOUBLE SWINGING VEHICLE GATE
NOT TO SCALE

Revision	Date	Description	By	Chk'd

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Client: Jicarilla Apache Nation Location: JAN Border to Teepee Junction, NM

STANDARD FENCE DETAILS
JICARILLA APACHE NATION
CUTTER INTERTIE
SANDOVAL COUNTY, NEW MEXICO

Designed: RMB Drawn: MvH/AaV Checked: TTT

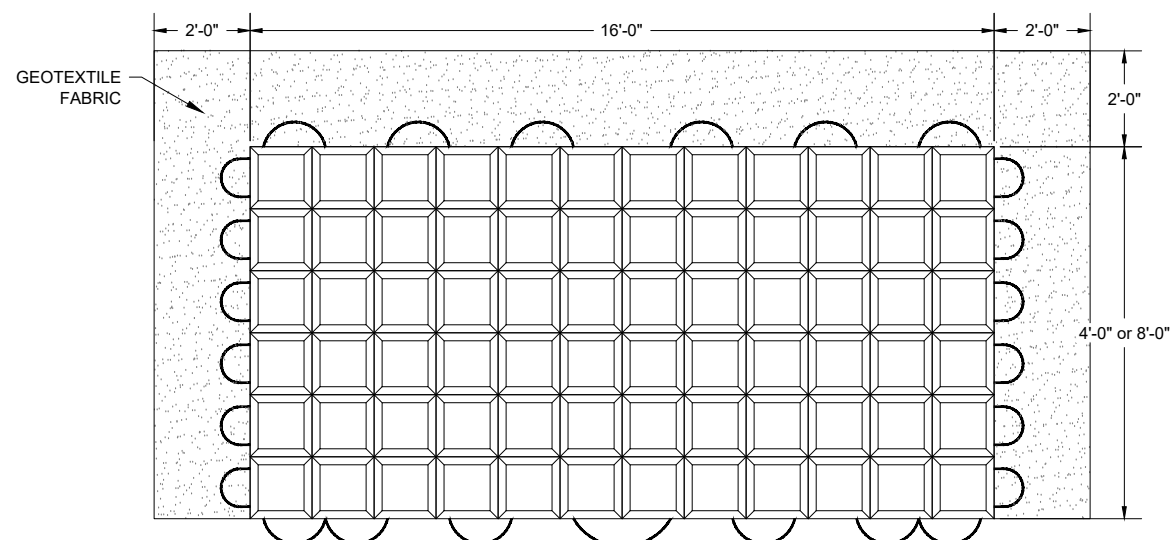
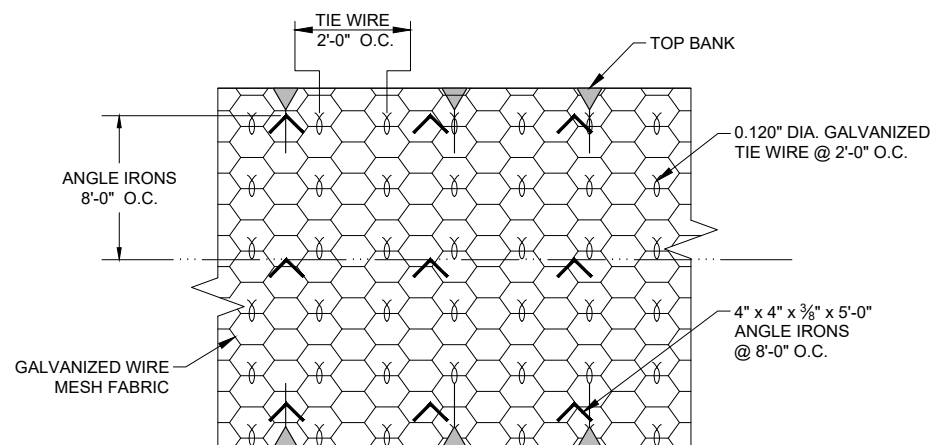
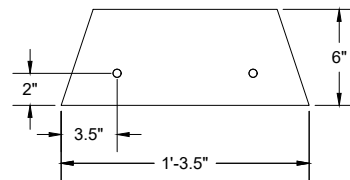
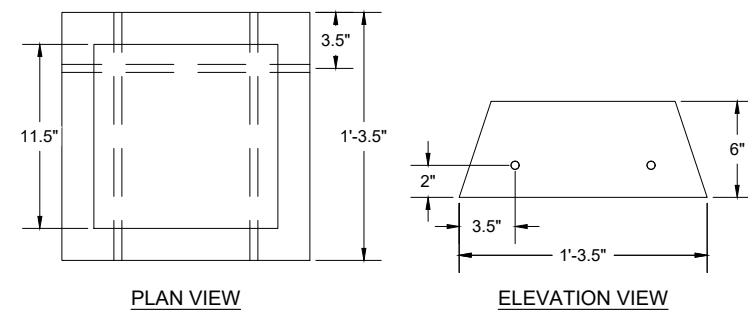
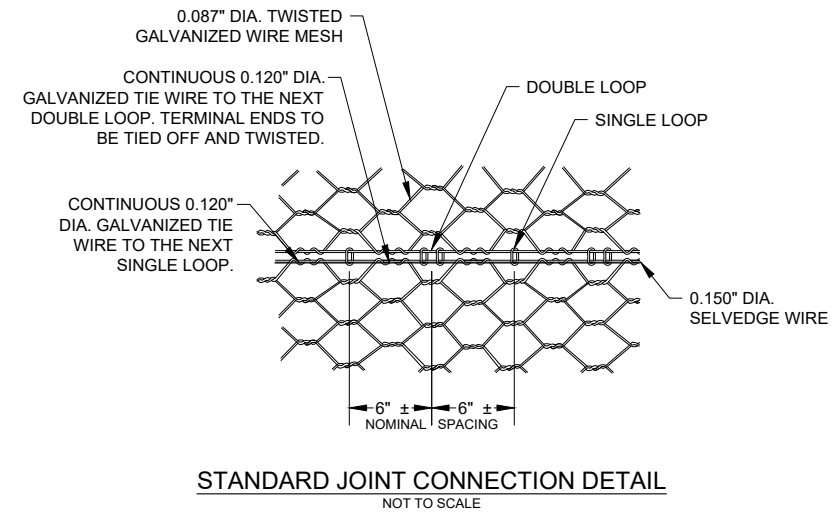
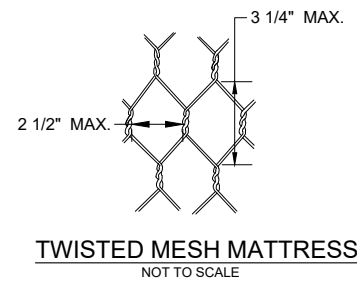
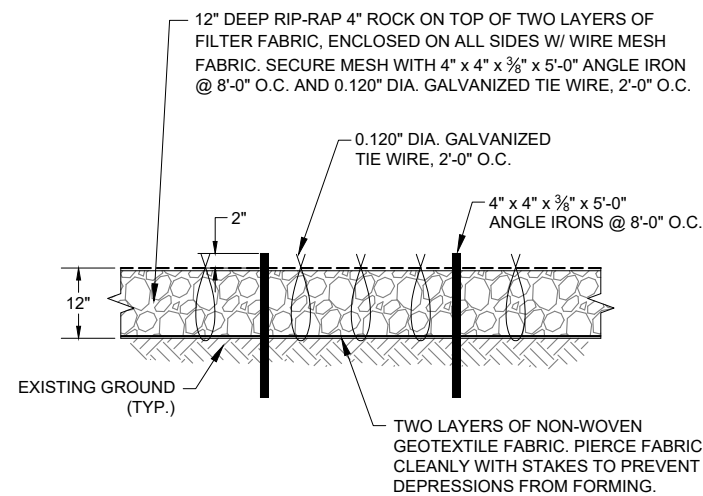


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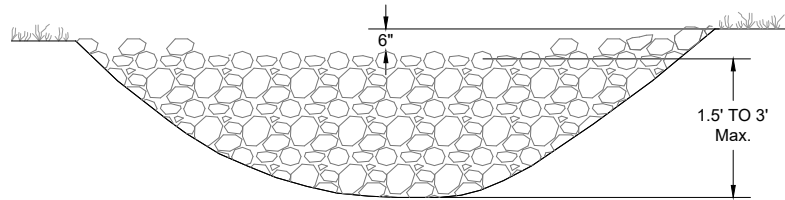
NOTICE OF EXTENDED PAYMENT PROVISION:
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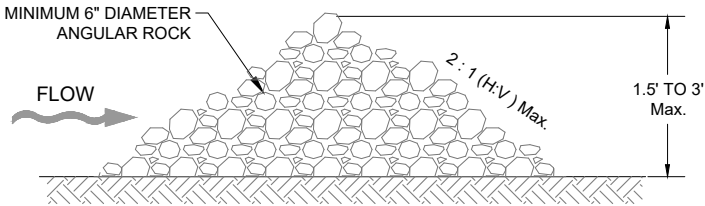
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Project No: 6921433
Sheet: DT-20



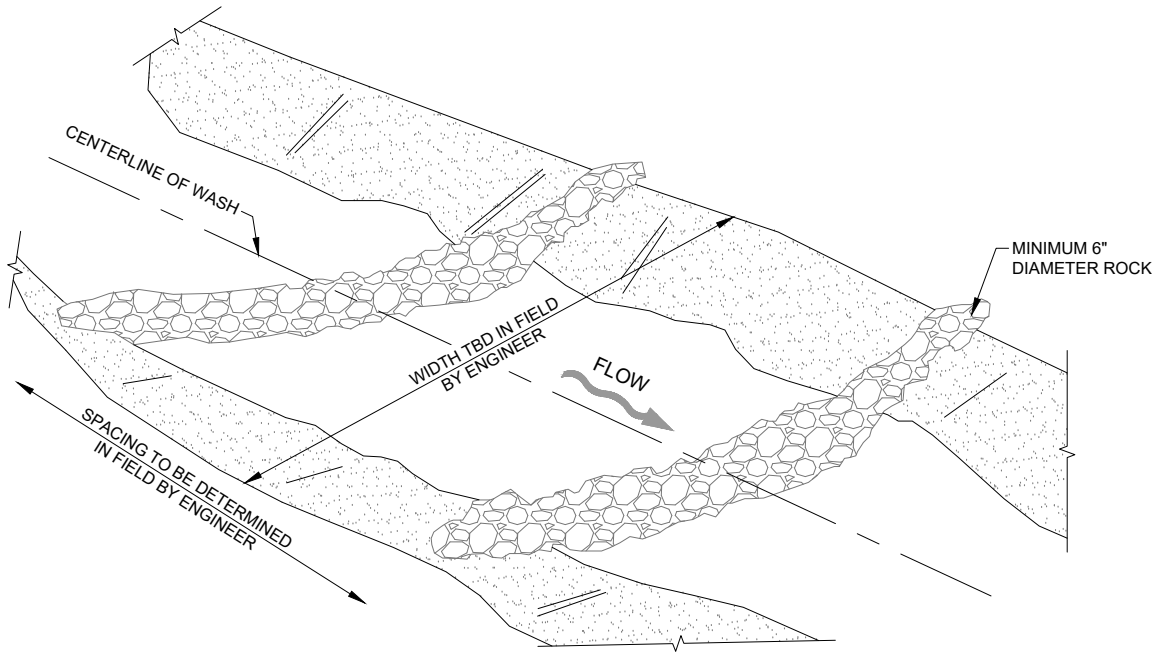
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ELEVATION VIEW



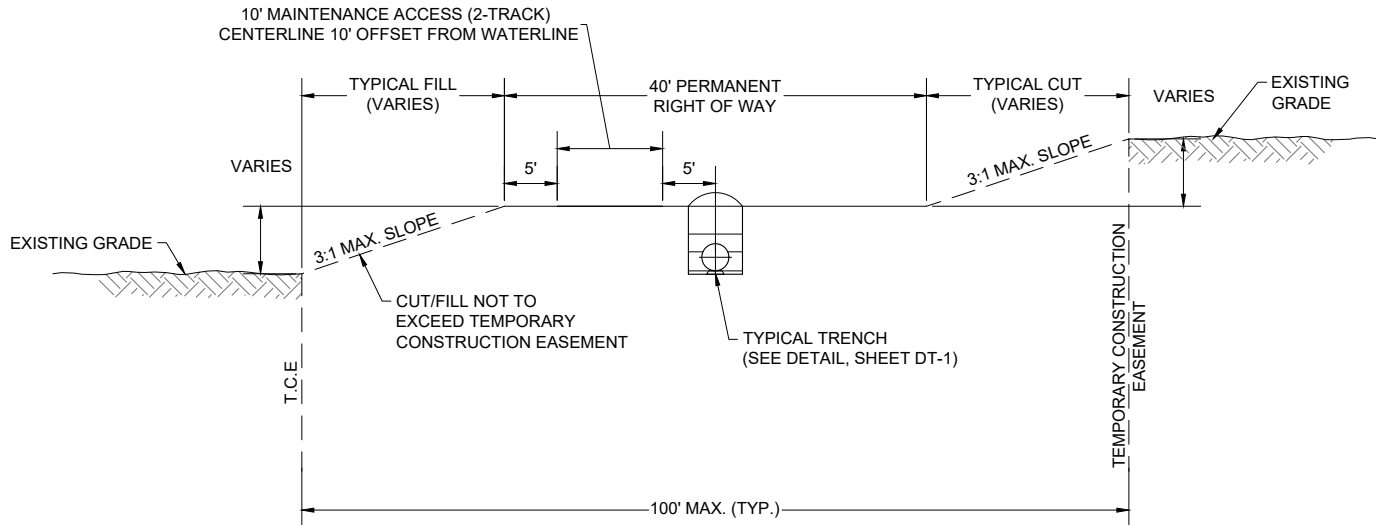
TYPICAL ROCK DAM SECTION



ISOMETRIC VIEW

ROCK CHECK DAM DETAIL

NOT TO SCALE



TYPICAL PIPELINE ROW FINISHED GRADING DETAIL

NOT TO SCALE

NOTES:

1. ALL DISTURBED EARTH SHALL BE COMPACTED AND RESEEDED AS REQUIRED PER DT-1 AND SPECIFICATIONS.
2. TOTAL WIDTH IS REDUCED IN AREAS WHERE TEMPORARY CONSTRUCTION EASEMENT IS TRUNCATED DUE TO ADJACENT CULTURALLY OR BIOLOGICALLY SENSITIVE AREAS, ROADWAYS, PRIVATE PROPERTIES, ETC.
3. FINAL GRADING AND SLOPE STABILIZATION MUST BE APPROVED BY ENGINEER AND THE JICARILLA APACHE NATION.

Revision	Date	Description	By	Check



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Client: Jicarilla Apache Nation
Location: JAN Border to Teepee Junction, NM

EROSION CONTROL DETAILS (2 of 2)
AND R-O-W GRADING
JICARILLA APACHE NATION
CUTTER INTERTIE
SANDOVAL COUNTY, NEW MEXICO

Designed RMB	Drawn MvH/AaV	Checked TTT
-----------------	------------------	----------------



RYAN M. BIEHL
NEW MEXICO
22281
04-01-20
PROFESSIONAL ENGINEER

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CONSTRUCTION UNLESS IT IS
STAMPED, SIGNED AND DATED

**NOTICE OF EXTENDED
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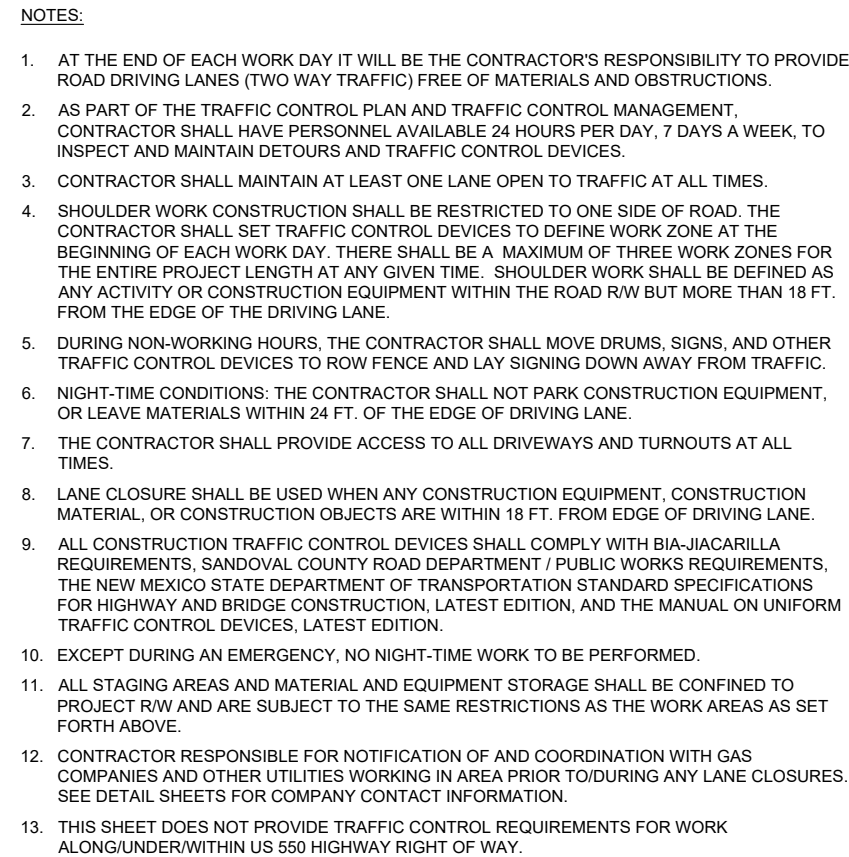
Date: April 1, 2020

Scale: Horiz:
Vert:

Project No: 6921433

Sheet: DT-22

EACH SIGN FACE SHOWN ON PLANS SHALL MEET THE SPECIFICATIONS IN THE STANDARD HIGHWAY SIGNS MANUAL (CURRENT EDITION) FOR PROPER ARRANGEMENT AND SPACING OF LETTERS, LETTER HEIGHT, LETTER SERIES, SYMBOLS, AND BORDERS FOR THE SPECIFIED SIZE AND MESSAGE AS SHOWN ON THE PLANS.



LANE CLOSURE (LEFT AND RIGHT)
OPEN CUT GRAVEL/DIRT ROADWAYS

NMDOT CHANNELIZATION DEVICES, TYPE: DRUM, NO. 702525. TOTAL OF
18 DRUMS REQUIRED.

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