

CONSTRUCTION PLANS FOR MADRID FIRE SUPPRESSION SYSTEM IMPROVEMENTS

NM HIGHWAY 14

SANTA FE COUNTY, NEW MEXICO

SEPTEMBER, 2024



- NOTE**
- ALL IMPROVEMENTS WITHIN NMDOT RIGHT OF WAY SHALL ADHERE TO THE NMDOT 2014 EDITION OF HIGHWAY AND BRIDGE CONSTRUCTION SPECIFICATIONS AND STANDARD DRAWINGS. IMPROVEMENTS RELATING TO TERRAIN MANAGEMENT MUST ALSO COMPLY WITH SECTION 7.17 OF THE SANTA FE COUNTY SUSTAINABLE LAND DEVELOPMENT CODE.
 - IMPROVEMENTS ASSOCIATED WITH THIS PROJECT DO NOT MEET THE DEFINITION OF A PUBLIC WATER SYSTEM.

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REV	SHEETS	COUNTY ENGINEER	DATE	USER DEPT.	DATE	USER DEPT.	DATE
ENGINEERS STAMP & SIGNATURE		APPROVALS	ENGINEER	DATE	*****		
					APPROVED FOR CONSTRUCTION		
					Meghan J. McDonald, P.E. Engineer Manager, NMAMP		
04-17-24 RONALD R. BOHANNAN P.E. #7868		PROJECT NO.		DATE		SHEET	
		EMNRD-MMD-2025-01				1 OF 16	



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GENERAL NOTES

- ALL WORK DETAILED ON THESE PLANS, EXCEPT AS OTHERWISE STATED OR PROVIDED HEREON, SHALL BE CONSTRUCTED IN ACCORDANCE WITH THE 2014 NMDOT SPECS FOR HIGHWAY AND BRIDGE CONSTRUCTION AND THE SANTA FE COUNTY SUSTAINABLE LAND DEVELOPMENT CODE CHAPTER 7.17 FOR TERRAIN MANAGEMENT. THESE CODES WILL BE REFERRED TO HEREAFTER AS "STANDARD SPECIFICATIONS. SEE NOTE ON SHEET 3
- ALL WORK ON THIS PROJECT SHALL BE PERFORMED IN ACCORDANCE WITH APPLICABLE FEDERAL, STATE, AND LOCAL LAWS, ORDINANCES, RULES, AND REGULATIONS CONCERNING CONSTRUCTION SAFETY AND HEALTH.
- CONTRACTOR SHALL ASSUME THE SOLE AND COMPLETE RESPONSIBILITY FOR THE JOB SITE CONDITIONS DURING THE COURSE OF CONSTRUCTION OF THIS PROJECT, INCLUDING SAFETY OF ALL PERSONS AND PROPERTY. THIS REQUIREMENT SHALL APPLY CONTINUOUSLY AND NOT BE LIMITED TO NORMAL WORKING HOURS. CONTRACTOR SHALL DEFEND, INDEMNIFY, AND HOLD HARMLESS THE OWNER AND ENGINEER FROM ANY AND ALL LIABILITY REAL OR ALLEGED, IN CONNECTION WITH THE PERFORMANCE OF WORK ON THIS PROJECT, EXCEPT LIABILITY ARISING FROM THE SOLE NEGLIGENCE OF THE OWNER OR ENGINEER.
- AN EXCAVATION/CONSTRUCTION PERMIT WILL BE REQUIRED BEFORE BEGINNING ANY WORK. NMDOT TRAFFIC CONTROL BARRICADING WITHIN A RIGHT-OF-WAY. PERMIT IS REQUIRED PRIOR TO ANY WORK WITHIN STATE RIGHT OF WAY (7 DAY PROCESSING PERIOD)
- CONTRACTOR SHALL NOTIFY THE CONSTRUCTION ENGINEER (OR PROJECT MANAGER) NOT LESS THAN SEVEN (7) DAYS PRIOR TO STARTING WORK IN ORDER THAT THE COUNTY SURVEYOR MAY TAKE NECESSARY MEASURES TO INSURE THE PRESERVATION OF SURVEY MONUMENTS. CONTRACTOR SHALL NOT DISTURB PERMANENT SURVEY MONUMENTS WITHOUT THE CONSENT OF THE COUNTY SURVEYOR AND SHALL NOTIFY THE COUNTY SURVEYOR AND BEAR THE EXPENSE OF REPLACING ANY THAT MAY BE DISTURBED WITHOUT PERMISSION. ONLY THE COUNTY SURVEYOR SHALL REPLACE SURVEY MONUMENTS. WHEN A CHANGE IS MADE IN THE FINISHED ELEVATIONS OF THE PAVEMENT OF ANY ROADWAY IN WHICH A PERMANENT SURVEY MONUMENT IS LOCATED, CONTRACTOR SHALL, AT HIS OWN EXPENSE, ADJUST THE MONUMENT COVER TO THE NEW GRADE UNLESS OTHERWISE SPECIFIED.
- EXISTING UTILITY LINE LOCATIONS ARE SHOWN IN AN APPROXIMATE MANNER ONLY, AND LINES MAY EXIST WHERE NONE ARE SHOWN. TWO (2) WORKING DAYS PRIOR TO ANY EXCAVATION, CONTRACTOR SHALL CONTACT NEW MEXICO ONE CALL SYSTEM (260-1990) FOR LOCATION OF EXISTING UTILITIES. CONTRACTOR SHALL THEN EXCAVATE AND VERIFY THE HORIZONTAL AND VERTICAL LOCATIONS OF ALL PERTINENT EXISTING UTILITIES AND/OR OBSTRUCTIONS. SHOULD A CONFLICT EXIST, THE CONTRACTOR SHALL NOTIFY THE ENGINEER SO THE CONFLICT CAN BE RESOLVED WITH A MINIMUM AMOUNT OF DELAY. CONTRACTOR SHALL THEN COORDINATE RELOCATION OF UTILITY LINES WITH UTILITY COMPANIES AS REQUIRED. ANY DAMAGE CAUSED BY FAILURE TO LOCATE, IDENTIFY, AND PRESERVE ANY EXISTING UTILITIES IS THE FULL RESPONSIBILITY OF THE CONTRACTOR.
- CONTRACTOR SHALL ASSIST THE ENGINEER/INSPECTOR IN THE RECORDING OF DATA ON ALL UTILITY LINES AND ACCESSORIES AS REQUIRED BY NMDOT AND SANTA FE COUNTY FOR THE PREPARATION OF "AS BUILT" DRAWINGS. CONTRACTOR SHALL NOT COVER UTILITY LINES AND ACCESSORIES UNTIL ALL DATA HAS BEEN RECORDED.
- CONTRACTOR SHALL ASSUME FINANCIAL RESPONSIBILITY FOR ANY DAMAGE TO EXISTING PAVEMENT, PAVEMENT MARKINGS, SIGNAGE, CURB AND GUTTER, HANDICAP RAMPS, AND SIDEWALK DURING CONSTRUCTION APART FROM THOSE SECTIONS INDICATED ON THE PLANS, AND SHALL REPAIR OR REPLACE, PER THE STANDARD SPECIFICATIONS, ANY SUCH DAMAGE.
- CONTRACTOR SHALL MAINTAIN A GRAFFITI-FREE WORK SITE. CONTRACTOR SHALL PROMPTLY REMOVE ANY AND ALL GRAFFITI FROM EQUIPMENT, WHETHER PERMANENT OR TEMPORARY.
- CONTRACTOR SHALL BE RESPONSIBLE TO PROVIDE AND MAINTAIN ALL CONSTRUCTION SIGNING UNTIL THE PROJECT HAS BEEN ACCEPTED BY THE CITY AND OTHER JURISDICTIONAL AUTHORITIES WHERE APPLICABLE.
- CONSTRUCTION ACTIVITY SHALL BE LIMITED TO THE PROPERTY AND/OR PROJECT LIMITS SHOWN. ANY DAMAGE TO ADJACENT PROPERTIES RESULTING FROM THE CONSTRUCTION PROCESS IS THE RESPONSIBILITY OF THE CONTRACTOR, INCLUDING ANY SUCH COSTS INCURRED.
- SOIL REMOVALS MAY BE DISPOSED OF ON NORTHERN HALF OF SITE AS DIRECTED BY THE MADRID WATER BOARD PROJECT MANAGER.

UTILITIES

- WATER & SEWER IF WITHIN NMDOT RIGHT OF WAY WILL REQUIRE A UTILITY PERMIT THAT SHALL BE SUBMITTED AND AND CONCURRED PRIOR TO INSTALLATION
- ALL UTILITIES AND UTILITY SERVICE LINES SHALL BE INSTALLED PRIOR TO PAVING. EXISTING VALVES AND MANHOLES SHALL NOT BE BURIED OR PAVED OVER BUT RIMS SHALL BE ADJUSTED TO MATCH NEW GRADE.
- MANHOLE RIMS, FIRE HYDRANT ELEVATIONS, AND FLANGE ELEVATIONS SHOWN ARE APPROXIMATE. CONTRACTOR SHALL FIELD VERIFY AND ADJUST TO FINAL PAVEMENT OR SURFACE GRADES.
- PROPOSED WATERLINE MATERIALS SHALL BE PVC PIPE MEETING AWWA C-900: DR18 REQUIREMENTS (6" - 12") OR DUCTILE IRON PIPE MEETING AWWA C-150 REQUIREMENTS (6" - 48").
- PROPOSED WATERLINE MATERIALS MUST COMPLY WITH NMDOT STANDARD SPECIFICATIONS.
- ALL WATERLINE FITTINGS, VALVES, BENDS, TEES, CROSSES AND APPURTENANCES SHALL HAVE RESTRAINED JOINTS UNLESS OTHERWISE NOTED ON THE PLANS. THE JOINT RESTRAINT REQUIREMENTS SHOULD BE DELINEATED WITHIN A JOINT RESTRAINT TABLE.
- ALL FINAL BACKFILL FOR TRENCHES SHALL BE COMPACTED TO A MINIMUM OF 95% MAXIMUM DENSITY PER ASTM D-1557 AND AS DIRECTED BY STANDARD SPECIFICATIONS SECTION 701.14.2 AND STANDARD DRAWING NUMBER 2465.
- TRACER WIRE SHALL BE INCLUDED FOR ALL PUBLIC WATER AND SEWER MAINS AND FOR WATER SERVICES IN ACCORDANCE WITH NMDOT DETAILS.
- CONTRACTOR SHALL PROVIDE THE PROPOSED HYDRO TESTING PLANS TO MADRID WATER DOMESTIC MUTUAL FOR APPROVAL PRIOR TO BEGINNING TESTING OPERATIONS.
- AT UTILITY CROSSINGS, WHERE LESS THAN 18" OF VERTICAL SEPARATION FROM STORM DRAIN PIPING OR STRUCTURES IS PROPOSED, LEAN FILL CONSTRUCTION SHALL BE USED TO PROTECT THE WATER OR SEWER LINE. LEAN FILL SHALL EXTEND A PERPENDICULAR DISTANCE OF 5 FEET ON EACH SIDE OF THE STORM PIPE OR STRUCTURE.

OTHER COMMON NOTES

- ALL EXCAVATION, TRENCHING, AND SHORING ACTIVITIES MUST BE ACCOMPLISHED IN ACCORDANCE WITH OSHA 29CFR 1926.650 SUBPART P.
- IN ADVANCE OF CONSTRUCTION, CONTRACTOR SHALL DETERMINE IF OVERHEAD UTILITY LINES, SUPPORT STRUCTURES, POLES, GUYS, ETC. ARE AN OBSTRUCTION TO CONSTRUCTION OPERATIONS. IF ANY OBSTRUCTION TO CONSTRUCTION OPERATIONS IS EVIDENT, CONTRACTOR SHALL BE RESPONSIBLE FOR COORDINATING WITH THE APPROPRIATE UTILITY OWNER TO REMOVE OR SUPPORT THE UTILITY OBSTRUCTION. ANY COST ASSOCIATED WITH THIS EFFORT SHALL BE THE RESPONSIBILITY OF CONTRACTOR.
- PNM WILL PROVIDE AT NO COST TO THE COUNTY OR THE CONTRACTOR THE REQUIRED PERSONNEL FOR INSPECTION OR OBSERVATION DEEMED NECESSARY BY PNM WHILE THE CONTRACTOR IS EXPOSING PNM'S CABLES. HOWEVER, THE CONTRACTOR SHALL BE CHARGED THE TOTAL COST ASSOCIATED WITH REPAIRS TO ANY DAMAGED CABLES OR FOR ANY COST ASSOCIATED WITH SUPPORTING OR RELOCATING THE POLES AND CABLES DURING CONSTRUCTION.
- CONTRACTOR SHALL SUPPORT AND PROTECT ALL EXISTING, UNDERGROUND UTILITY LINES WHICH BECOME EXPOSED DURING CONSTRUCTION. PAYMENT FOR SUPPORTING WORK SHALL BE INCIDENTAL TO WATERLINE AND/OR SEWER LINE COSTS.
- CONTRACTOR IS TO SUPPORT, PROTECT, AND MAINTAIN THE INTEGRITY OF ALL UNDERGROUND TELEPHONE, ELECTRIC CABLES AND CABLE TELEVISION UTILITIES AT NO ADDITIONAL COST TO THE OWNER. CABLE IS TO BE SUPPORTED AT A MAXIMUM SPACING OF FIFTEEN (15) FEET. CONTRACTOR SHALL COORDINATE WITH AND MAKE NECESSARY PAYMENT (IF ANY) TO UTILITY OWNER FOR DE-ENERGIZATION OF CABLES OR SUPPORT OF CABLES BY THE UTILITY OWNER.
- CONTRACTOR SHALL PROMPTLY CLEAN UP ANY MATERIAL EXCAVATED WITHIN THE PUBLIC RIGHT-OF-WAY OR PRIVATE ROADWAY EASEMENTS TO PREVENT ANY EXCAVATED MATERIAL BEING WASHED DOWN THE STREET OR INTO ANY PUBLIC DRAINAGE FACILITY.
- CONTRACTOR SHALL CONDUCT ALL WORK IN A MANNER WHICH WILL MINIMIZE INTERFERENCE WITH LOCAL TRAFFIC.
- ALL EXISTING SIGNS, MARKERS, DELINEATORS, ETC., WITHIN THE CONSTRUCTION LIMITS SHALL BE REMOVED, STORED AND RE-SET BY THE CONTRACTOR.
- DISPOSAL SITE FOR ALL EXCESS EXCAVATION MATERIAL AND UNSUITABLE MATERIAL SHALL BE ARRANGED BY THE CONTRACTOR IN COMPLIANCE WITH ALL APPLICABLE ENVIRONMENTAL REGULATIONS. NO SEPARATE MEASUREMENT OR PAYMENT WILL BE MADE FOR COSTS ASSOCIATED WITH OBTAINING A DISPOSAL SITE AND HAUL THERETO.
- IF CULTURAL RESOURCES, SUCH AS HISTORIC OR PREHISTORIC ARTIFACTS, OR HUMAN REMAINS ARE DISCOVERED DURING EXCAVATION OR CONSTRUCTION, WORK SHALL CEASE AND THE CONSTRUCTION ENGINEER SHALL NOTIFY THE COUNTY OFFICE OF THE MEDICAL EXAMINER AT (505) 272-3053. IF THE MEDICAL EXAMINER DETERMINES THAT HUMAN REMAINS ARE NOT PRESENT, THE CONSTRUCTION ENGINEER SHALL NOTIFY THE STATE HISTORIC PRESERVATION OFFICER (SHPO) AT 827-6320.
- AD 241 DROP OFF POLICY MUST BE ADHERED TO ACROSS PAVEMENT SECTION. EDGE OF ASPHALT MUST TAPER TO GRADE AT A 3:1 MAXIMUM SLOPE
- ALL NMDOT MONUMENTS MUST BE PRESERVED. IF AN NMDOT MONUMENT IS IN CONFLICT WITH THE PROPOSED IMPROVEMENTS PLEASE CONTACT NMDOT FOR GUIDANCE

CONTRACTOR		DATE	
WORKED BY	DATE	INSPECTOR'S ACCEPTANCE BY	DATE
VERIFICATION BY	DATE	DATE	DATE
DATE	DATE	DATE	DATE
MICRO-FILM INFORMATION		RECORDED BY	
NO.		NO.	

06/26/24

REMARKS	BY
DESIGN	DESIGN
DESIGNED BY: JN	DATE: JUNE 2024
DRAWN BY: RMG	DATE: JUNE 2024
DRAWN NAME: MADRID WATER TANK IMPROVEMENTS	JOB NO.: 2023094
CHECKED BY: RRB	DATE: JUNE 2024

LAST DESIGN UPDATE	MO./DAY/YR.	MO./DAY/YR.

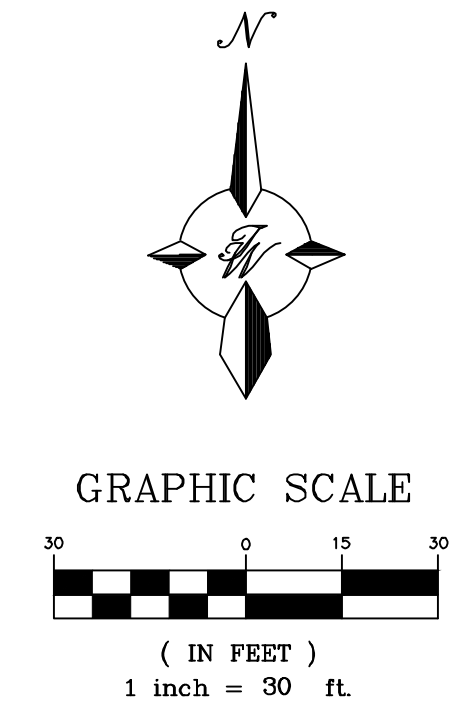
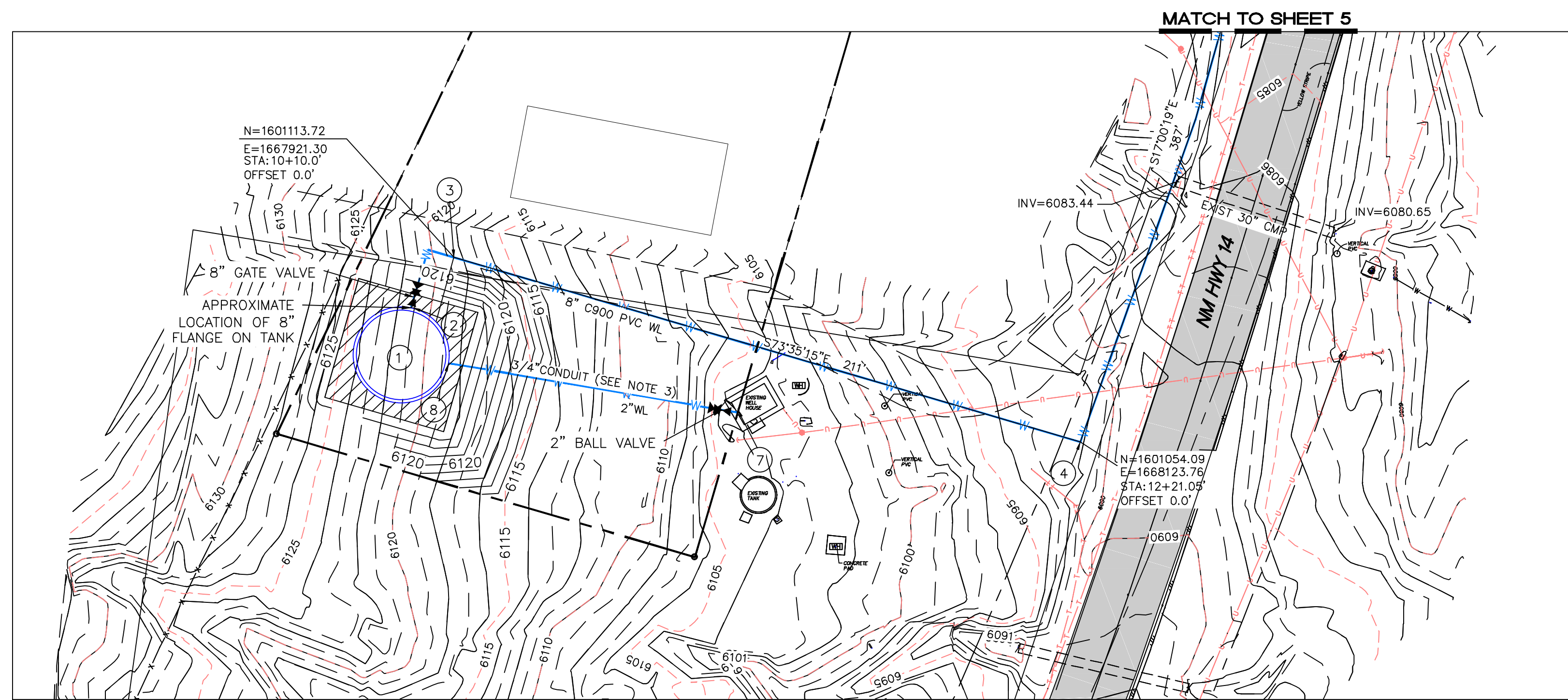
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NEW MEXICO ENERGY MINERAL AND NATURAL RESOURCE
 ABANDONED MINE LAND PROGRAM

TITLE:
MADRID WATER - FIRE SUPPRESSION IMPROVEMENTS
 GENERAL NOTES



PROJECT NO. EMNRD-MMD-2025-01
 ZONE MAP NO. -
 SHEET 2 OF 16

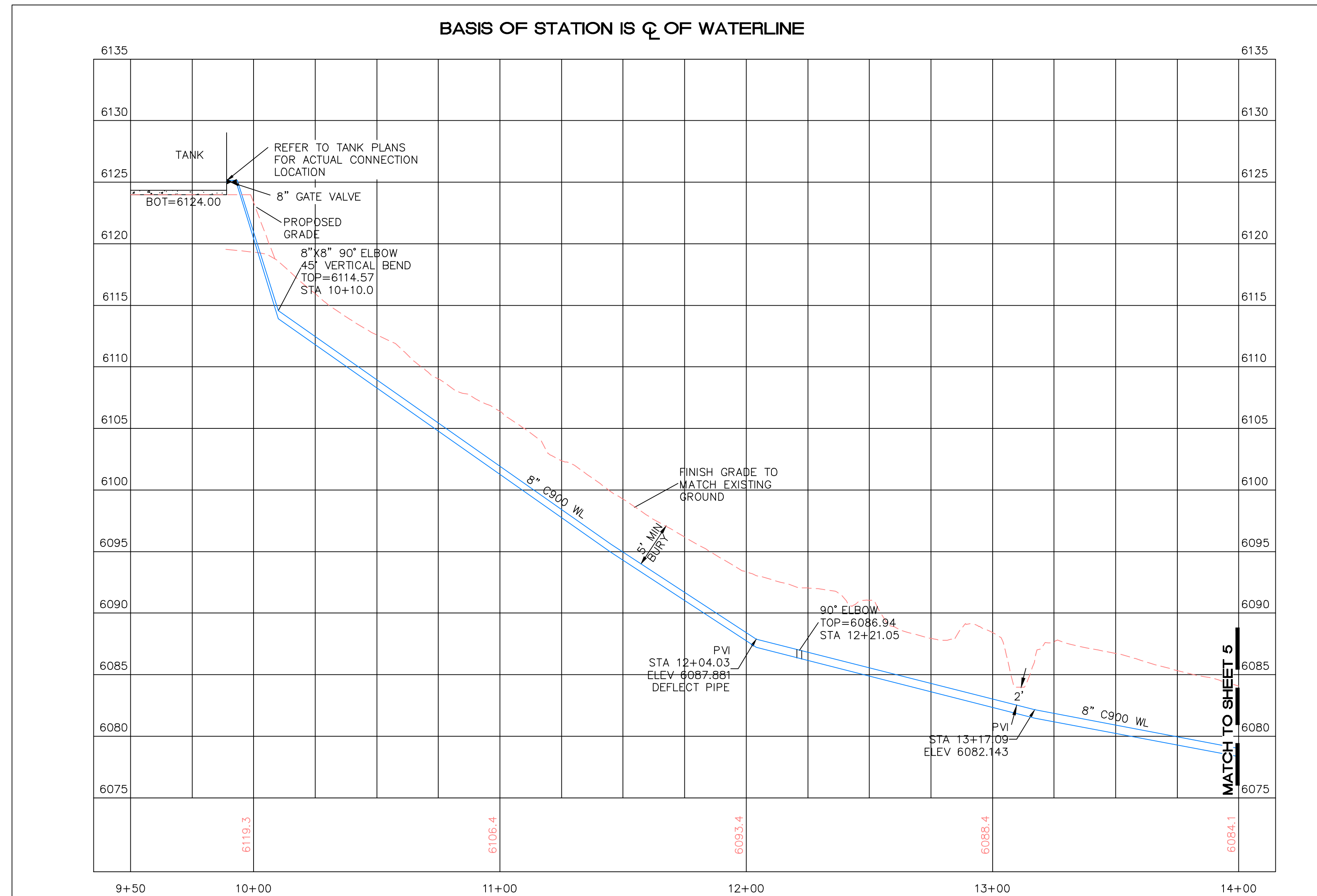


LEGEND

	BOUNDARY LINE
	EXISTING EDGE OF PAVEMENT
	EXISTING POWER POLE
	EXISTING WATER METER
	EXISTING OVERHEAD POWER LINE
	EXISTING UNDERGROUND TELEPHONE LINE
	EXISTING GUY ANCHOR
	EASEMENT
	PROPOSED 8" WATERLINE

- KEYED NOTES**
- PROPOSED TANK 125000 GAL 30' DIA 25' HIGH BOTTOM=6124.00
 - CONNECT TO TANK PER MANUFACTURER SPECIFICATIONS IE=6124.6
 - 10+10.00 0.0 RT 2-45' ELBOWS
 - 12+21.05 0.0 RT 2-45' ELBOWS
 - NOT USED
 - 2" END CAP TO BE INSTALLED BY UTILITY CONTRACTOR AT INTERIM
 - 11+11.8 21.2 RT ELEV AT EXIST WELL HOUSE 6100.00
 - 10+25.4 35.1 RT ELEV AT TANK HOUSE 6124.00

- NOTES**
- "UTILITY CONTRACTOR" REFERS TO THE PARTY RESPONSIBLE FOR INSTALLING TANK SITE PLAN AND THE PROPOSED FIRE SUPPRESSION LINE EXTENDING FROM THE TANK FLANGE STUB OUT INDICATED ON THIS SHEET TO THE TIE-IN POINT AT THE EXISTING FIRE SUPPRESSION LINE.
 - "TANK CONTRACTOR" REFERS TO THE PARTY RESPONSIBLE FOR INSTALLING THE PROPOSED WATER STORAGE TANK AND CONSTRUCTING ITS FOUNDATION.
 - 3/4" PEP CONDUIT FOR SCADA SYSTEM TO BE INSTALLED IN SHARED TRENCH WITH 2" FILL LINE AT MINIMUM 1' OF SEPARATION.
 - UPGRADES TO WELL HOUSE EQUIPMENT TO INTEGRATE THE NEW TANK WILL BE THE RESPONSIBILITY OF MADRID WATER MUTUAL DOMESTIC WATER COMPANY.
 - ALL WATERLINES TO BE C 900 PVC, AT ARROYO CROSSING TO BE DUCTILE IRON (SEE SHEET 5)
 - TRENCH FROM WELL HOUSE TO TANK WILL INCLUDE A SEPARATE CONDUIT FOR A SCADA PRESSURE TRANSDUCER.
 - UTILITY CONTRACTOR IS RESPONSIBLE FOR THE WATERLINE UP TO THE LIMITS DESIGNATED ON THIS SHEET.
 - INSTALLATION OF THE WATER TANK AND TANK FOUNDATION IS THE RESPONSIBILITY OF THE TANK INSTALLER.
 - ACCESS TO SITE FOR MATERIAL DELIVERY AND STAGING IS LIMITED. IT IS THE RESPONSIBILITY OF THE TANK INSTALLER TO REVIEW DELIVER AND INSTALLATION LOGISTICS.
 - UTILITY CONTRACTOR TO REQUEST INSPECTIONS FOR WATERLINE PRIOR TO BACKFILLING.
 - MINIMUM BEND RADIUS OF 8" C900 PIPE IS 188.54 FT. MAXIMUM DEFLECTION ANGLE IS 3 DEGREES.



SITE BENCHMARK
 OPUS POINT
 SET CP-NO. 5 REBAR
 WITH ALUMINUM CAP
 "PS 11993"
 N=1,601,031.522
 E=1,668,078.227
 EL=6098.877

CAUTION
 ALL EXISTING UTILITIES SHOWN WERE OBTAINED FROM RESEARCH, AS-BUILTS, SURVEYS OR INFORMATION PROVIDED BY OTHERS. IT SHALL BE THE SOLE RESPONSIBILITY OF THE CONTRACTOR TO CONDUCT ALL NECESSARY FIELD INVESTIGATIONS PRIOR TO AND INCLUDING ANY EXCAVATION, TO DETERMINE THE ACTUAL LOCATION OF UTILITIES AND OTHER IMPROVEMENTS, PRIOR TO STARTING THE WORK. ANY CHANGES FROM THIS PLAN SHALL BE COORDINATED WITH AND APPROVED BY THE ENGINEER.

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NEW MEXICO ENERGY MINERAL AND NATURAL RESOURCE
 ABANDONED MINE LAND PROGRAM
TITLE: MADRID WATER - FIRE SUPPRESSION IMPROVEMENTS
 STA 10+00 TO STA 14+00

LAST DESIGN UPDATE	MO./DAY/YR.	MO./DAY/YR.

PROJECT NO. EMNRD-MMD-2025-01 ZONE MAP NO. SHEET 3 OF 16

AS-BUILT INFORMATION	
CONTRACTOR	DATE
WORK BY	DATE
INSPECTOR'S ACCEPTANCE BY	DATE
VEGETATION BY	DATE
DRAWINGS CORRECTED BY	DATE
MICRO-FILM INFORMATION	
RECORDED BY	DATE
NO.	

BENCH MARKS	
NO.	DATE

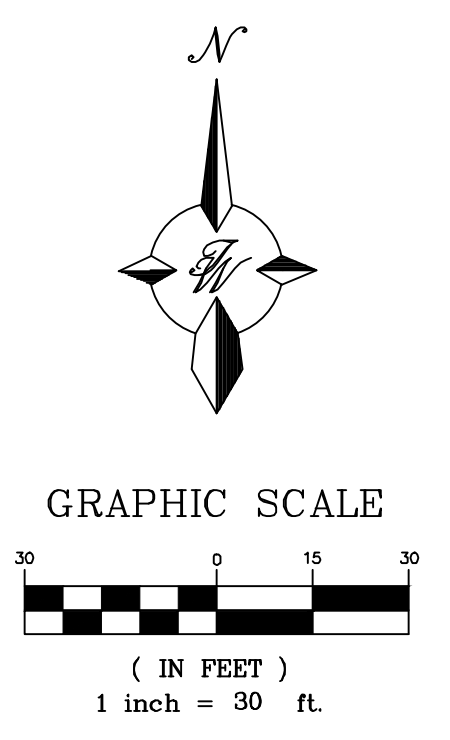
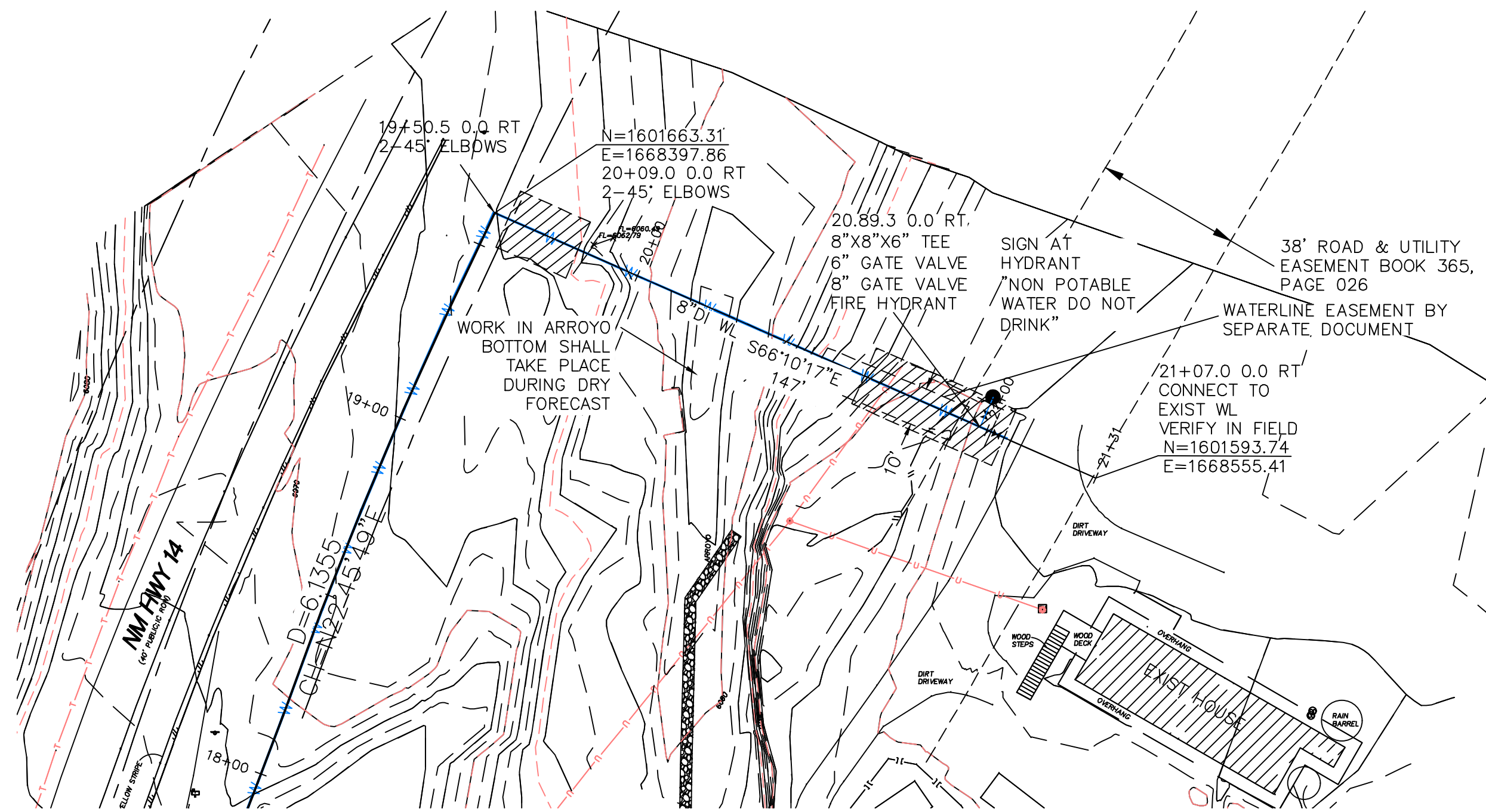
SURVEY INFORMATION	
NO.	DATE

ENGINEER'S SEAL
 RONALD R. BOHANNAN
 NEW MEXICO
 7868
 PROFESSIONAL ENGINEER
 06/26/24

REVISIONS	BY	DATE
DESIGN	JN	JUNE 2024

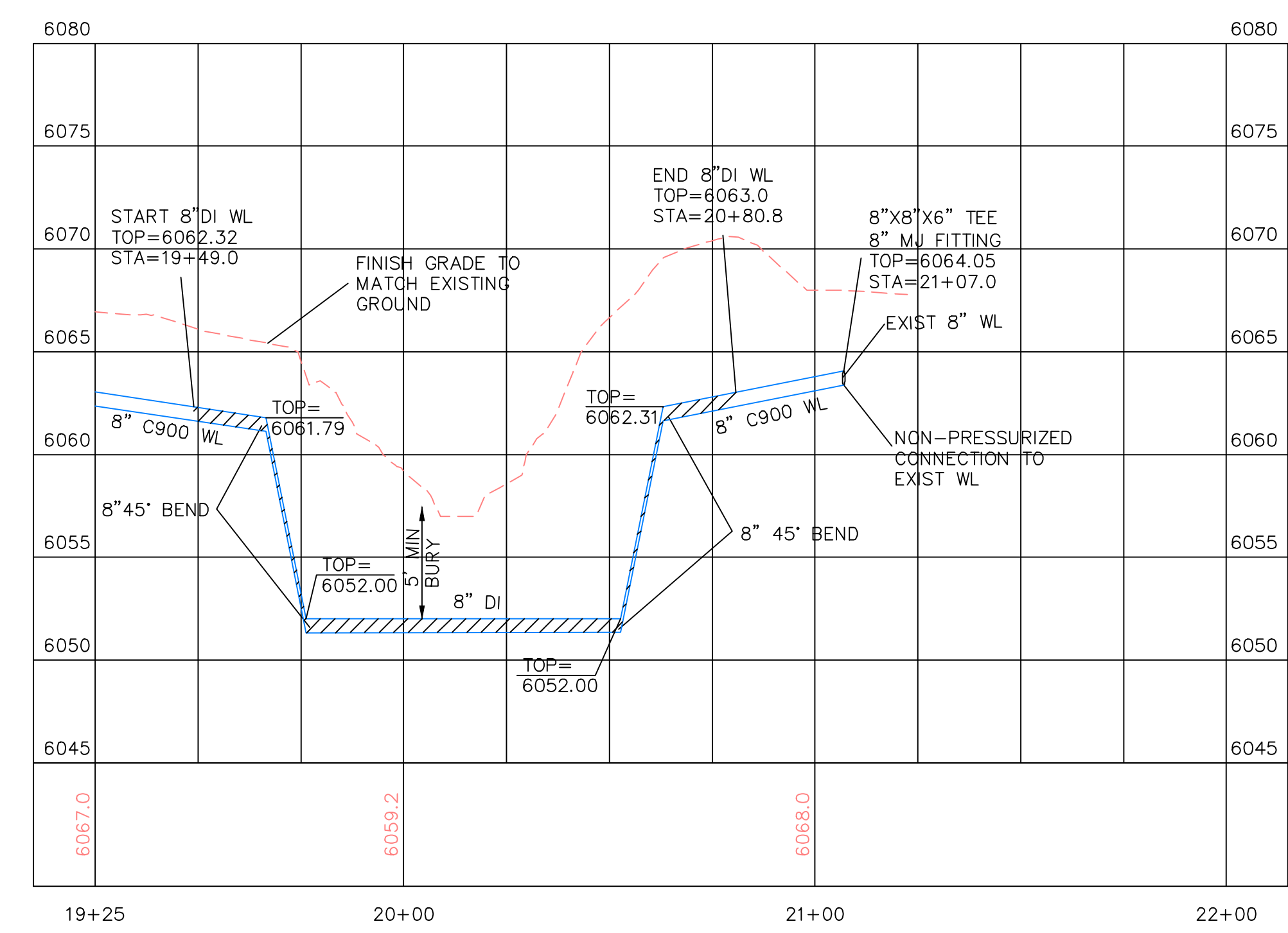
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LEGEND

	BOUNDARY LINE
	EXISTING EDGE OF PAVEMENT
	EXISTING POWER POLE
	EXISTING WATER METER
	EXISTING OVERHEAD POWER LINE
	EXISTING UNDERGROUND TELEPHONE LINE
	EXISTING GUY ANCHOR
	EASEMENT
	PROPOSED 8" WATERLINE



NOTES

1. IF JOINTS ARE REQUIRED FOR THE SEGMENT OF PIPE UNDER THE ARROYO, BUTT FUSION WILL BE REQUIRED AT JOINTS.
2. IT WILL BE THE RESPONSIBILITY OF THE UTILITY CONTRACTOR TO DECOMMISSION AND ABANDON THE EXISTING FIRE SUPPRESSION LINE IN PLACE.

CAUTION

ALL EXISTING UTILITIES SHOWN WERE OBTAINED FROM RESEARCH, AS-BUILTS, SURVEYS OR INFORMATION PROVIDED BY OTHERS. IT SHALL BE THE SOLE RESPONSIBILITY OF THE CONTRACTOR TO CONDUCT ALL NECESSARY FIELD INVESTIGATIONS PRIOR TO AND INCLUDING ANY EXCAVATION, TO DETERMINE THE ACTUAL LOCATION OF UTILITIES AND OTHER IMPROVEMENTS, PRIOR TO STARTING THE WORK. ANY CHANGES FROM THIS PLAN SHALL BE COORDINATED WITH AND APPROVED BY THE ENGINEER.

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 ABANDONED MINE LAND PROGRAM

TITLE:
MADRID WATER - FIRE SUPPRESSION IMPROVEMENTS
 STA 19+50 TO STA 21+75

LAST DESIGN UPDATE	MO./DAY/YR.	MO./DAY/YR.

DESIGNED BY: JIN DATE: JUNE 2024
 DRAWN BY: RMG DATE: JUNE 2024
 DRAWN NAME: MADRID WATER TANK IMPROVEMENTS JOB NO.: 2023094
 CHECKED BY: RRB DATE: JUNE 2024

PROJECT NO. EMNRD-MMD-2025-01 ZONE MAP NO. SHEET **5** OF **16**

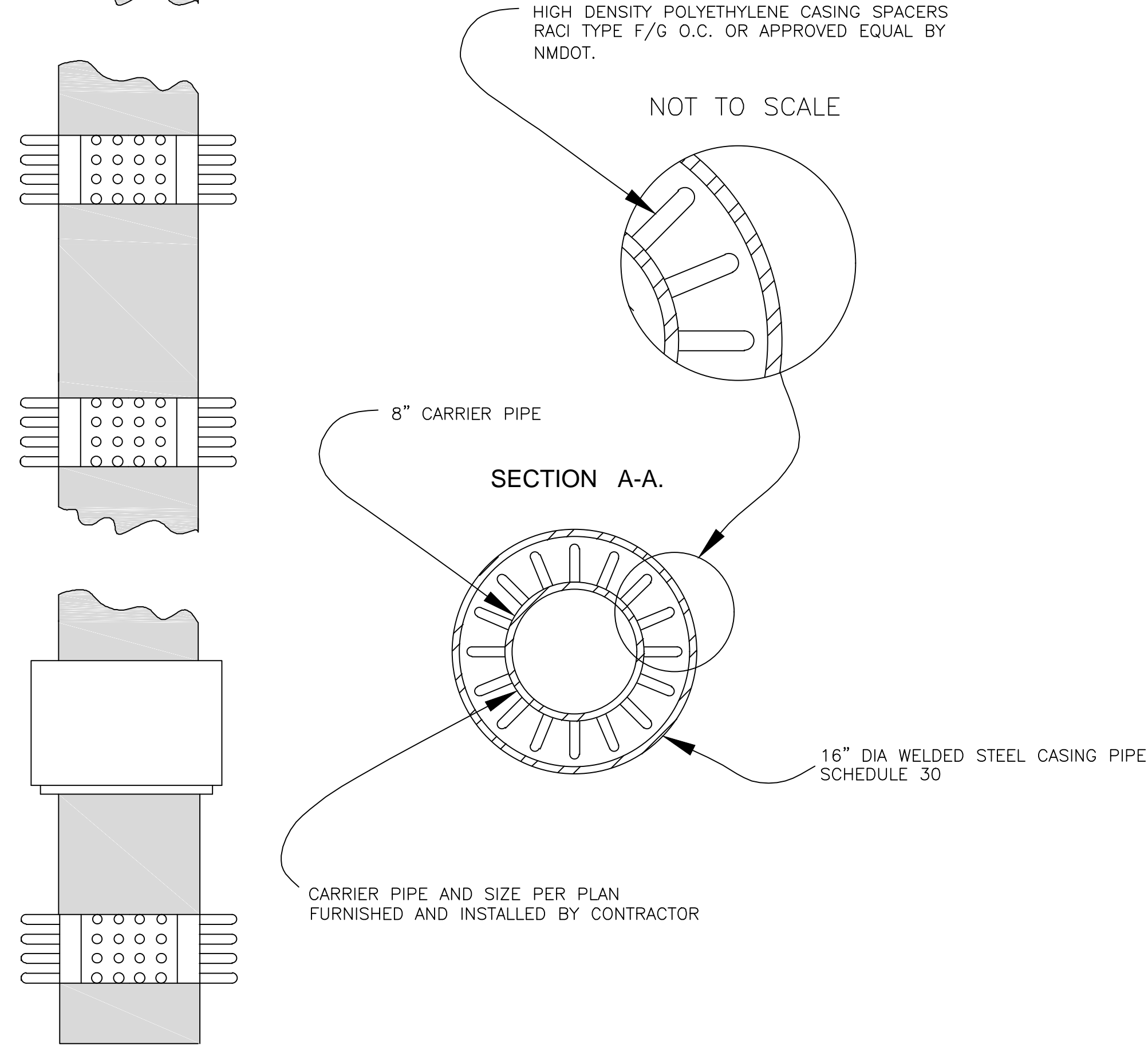
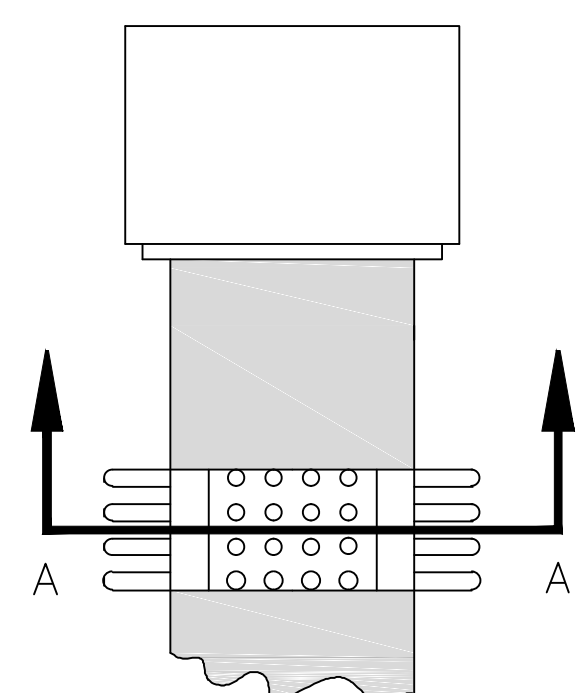
AS BUILT INFORMATION	
CONTRACTOR	DATE
WORK BY	DATE
INSPECTOR'S ACCEPTANCE BY	DATE
VERIFICATION BY	DATE
DRAWINGS CORRECTED BY	DATE
MICRO-FILM INFORMATION	
RECORDED BY	DATE
NO.	

BENCH MARKS	
NO.	DATE

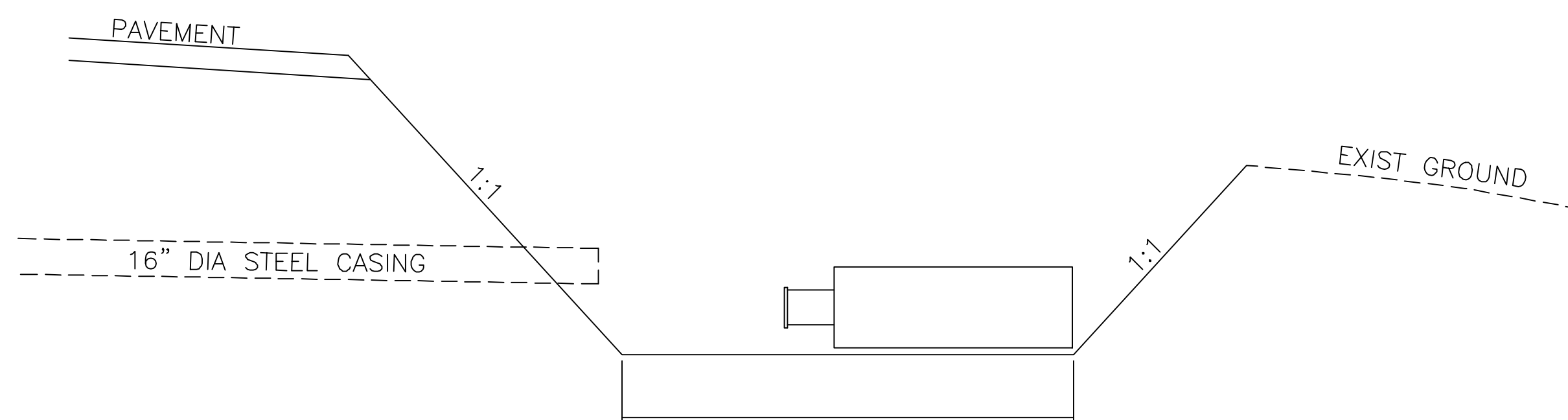
SURVEY INFORMATION	
FIELD NOTES	BY
NO.	

ENGINEER'S SEAL

06/26/24



CASING DETAIL
NTS



SEE SHEETS 5 OF 11 FOR SENDING/RECEIVING PIT DIMENSIONS
BORE PIT DETAIL
NTS

THE FOLLOWING TABLES WERE CREATED USING EBAA IRON INC. SOFTWARE FOR RESTRAINING JOINTS WITH THESE CRITERIA:
DEPTH OF BURY: 3.0' MINIMUM
SAFETY FACTOR: 1.5 TO 1
PIPE MATERIAL: PVC
SOIL TYPE: GM/SM-SILTY GRAVEL/SILTY SAND, GRAVEL-SAND MIXTURES
TEST PRESSURE: 150 PSI
TRENCH TYPE 3: PIPE BEDDED IN 4" MINIMUM LOOSE SOIL BACKFILL LIGHTLY CONSOLIDATED TO TOP OF PIPE

THESE LENGTHS WILL BE AFFECTED IF THE TYPE OF MATERIAL, GREATER DEPTH OF BURY, ETC. CHANGES. THESE MUST BE RECALCULATED BY THE DESIGN ENGINEER PRIOR TO CONSTRUCTION.

RESTRAINING JOINT LENGTHS FOR TEES*

SIZE	LENGTH ALONG RUN**				
	10'	8'	6'	4'	2'
12x12x12	61	68	76	83	90
12x12x10	39	48	56	65	74
12x12x8	15	26	37	48	59
12x12x6	1	1	9	24	38
12x12x4	1	1	1	1	16
10x10x10	46	54	61	68	76
10x10x8	25	34	43	52	61
10x10x6	1	5	17	29	41
10x10x4	1	1	1	2	20
8x8x8	34	42	49	56	63
8x8x6	6	15	25	34	43
8x8x4	1	1	1	10	24
6x6x6	7	24	31	39	46
6x6x4	1	1	6	17	27

*RESTRAINTS ONLY PLACED ON THE BRANCH
**LENGTH ALONG RUN REFERS TO THE LENGTH OF PIPE ON EITHER SIDE OF THE TEE BEFORE THE NEXT JOINT.

RESTRAINING JOINT LENGTHS FOR HORIZONTAL BENDS, VALVES, AND DEAD ENDS (EACH SIDE)

SIZE	HORIZONTAL BENDS				VALVES DEAD END
	90°	45°	22-1/2°	11-1/4°	
12	45	19	9	4	102
10	38	16	8	4	86
8	32	13	6	3	72
6	25	10	5	2	55
4	18	7	4	1	39

RESTRAINING JOINT LENGTHS FOR REDUCERS***

SIZE	L. SIDE	SIZE	L. SIDE
12x10	50	10x6	53
12x8	54	10x4	70
12x6	74	8x6	30
12x4	88	8x4	52
10x8	29	6x4	28

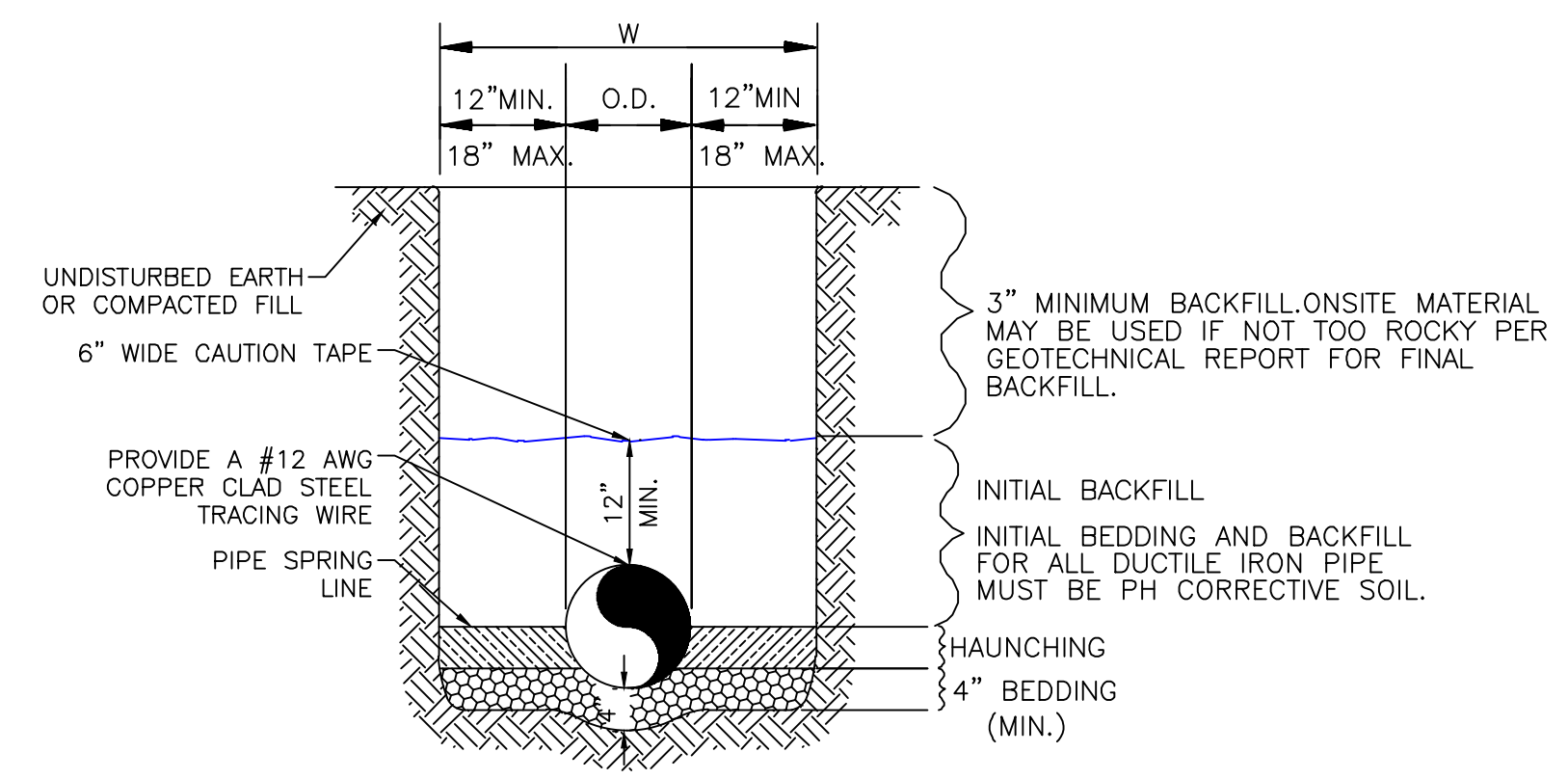
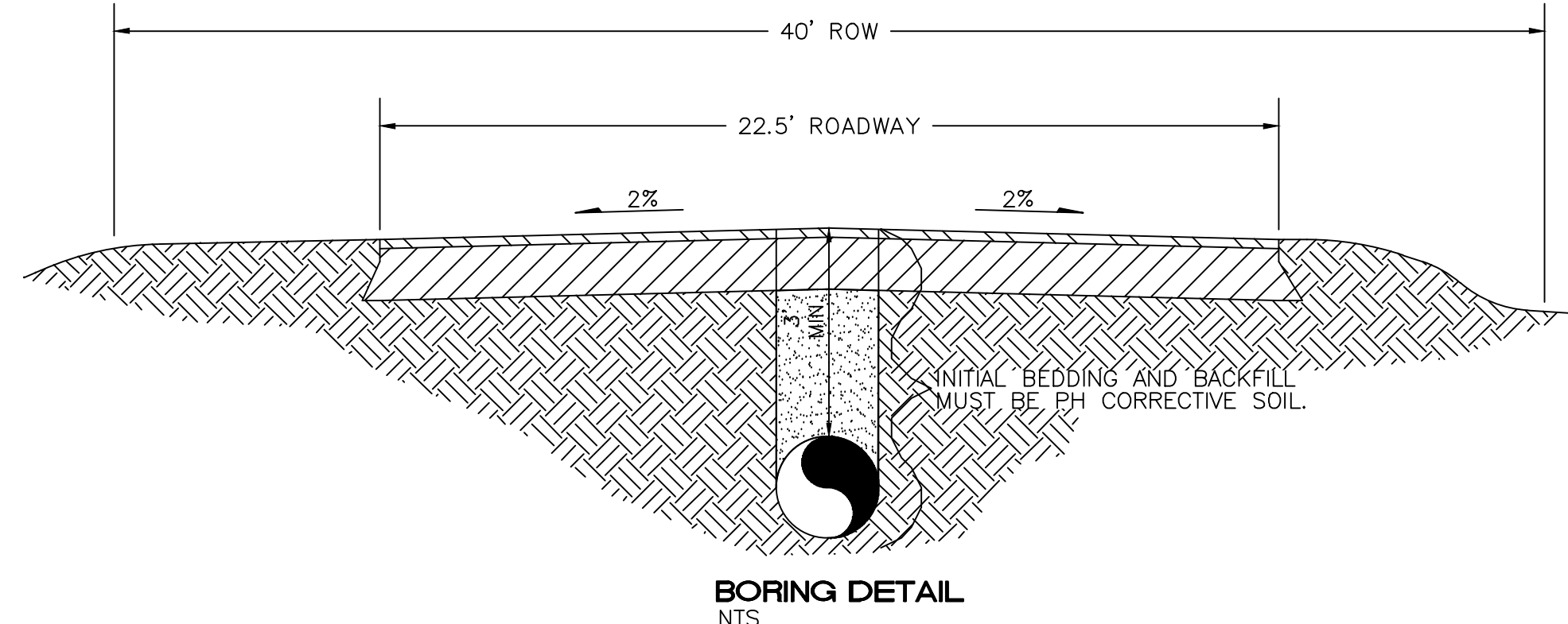
***RESTRAINTS ONLY PLACED ON LARGE SIDE

THE FOLLOWING TABLES WERE CREATED USING EBAA IRON INC. SOFTWARE FOR RESTRAINING JOINTS WITH THESE CRITERIA:
DEPTH OF BURY: 3.0' MINIMUM TO 6.0'
SAFETY FACTOR: 1.5 TO 1
PIPE MATERIAL: PVC
SOIL TYPE: GM/SM-SILTY GRAVEL/SILTY SAND, GRAVEL-SAND MIXTURES
TEST PRESSURE: 150 PSI
TRENCH TYPE 3: PIPE BEDDED IN 4" MINIMUM LOOSE SOIL BACKFILL LIGHTLY CONSOLIDATED TO TOP OF PIPE

THESE LENGTHS WILL BE AFFECTED IF THE TYPE OF MATERIAL, GREATER DEPTH OF BURY, ETC. CHANGES. THESE MUST BE RECALCULATED BY THE DESIGN ENGINEER PRIOR TO CONSTRUCTION.

RESTRAINING JOINT LENGTHS FOR VERTICAL OFFSETS/BENDS (EACH SIDE)

SIZE	HORIZONTAL BENDS			
	90°	45°	22-1/2°	11-1/4°
12 UPPER LOWER	DON'T USE	42 10	20 5	10 2
10 UPPER LOWER	DON'T USE	36 8	17 4	8 2
8 UPPER LOWER	DON'T USE	30 7	14 3	7 2
6 UPPER LOWER	DON'T USE	23 5	11 3	5 1
4 UPPER LOWER	DON'T USE	16 4	8 2	4 1



TRENCH DETAIL
GENERAL NOTES

- BEDDING SHALL BE CLASS I-A WORKED BY HAND. IF GROUNDWATER IS ANTICIPATED, THEN BEDDING SHALL BE CLASS I-B COMPACTED TO 85% STANDARD PROCTOR. (SEE SPECIFICATIONS FOR GRADATION)
- HAUNCHING SHALL BE WORKED AROUND THE PIPE BY HAND TO ELIMINATE VOIDS AND SHALL BE CLASS I-A OR CLASS I-B OR CLASS II COMPACTED TO 85% PROCTOR.
- INITIAL BACKFILL SHALL BE CLASS I-A WORKED BY HAND, OR CLASS I-B OR CLASS II COMPACTED TO 85% STANDARD PROCTOR.
- INITIAL BACKFILL NOT UNDER PAVED AREAS OR ALONG NM14 CAN BE COMPACTED TO 90% STANDARD PROCTOR OR OTHERWISE MUST BE COMPACTED TO 95% PROCTOR PER NMDOT SPECIFICATION.
- FINAL BACKFILL SHALL BE CLASS I, OR II COMPACTED AS NOTED IN NOTES 3. AND 4.
- FINAL BACKFILL NOT UNDER PAVED AREAS CAN BE TYPE II COMPACTED TO 95% STANDARD PROCTOR PER NMDOT SPECIFICATION
- ALL MATERIALS ARE CLASSIFIED IN ACCORDANCE WITH ASTM D 2321-89.
- ALL MATERIALS SHALL BE INSTALLED IN MAXIMUM 8" LOOSE LIFTS IN ACCORDANCE WITH ASTM D 698.
- FILL SALVAGED FROM EXCAVATION SHALL BE FREE OF DEBRIS, ORGANICS AND ROCKS LARGER THAN 3".
- ALL TRENCH EXCAVATIONS SHALL BE SLOPED, SHORED, SHEETED, BRACED, OR OTHERWISE SUPPORTED IN COMPLIANCE WITH OSHA REGULATIONS AND LOCAL ORDINANCES. (SEE SPECIFICATIONS)
- REFER TO NMDOT DETAIL 206-10-1/1 FOR AGENCY SPECIFIC STANDARDS

UTILITY TRENCH AND BEDDING DETAIL
NTS

AS BUILT INFORMATION

CONTRACTOR	DATE
WORK BY	DATE
INSPECTOR'S ACCEPTANCE BY	DATE
VERIFICATION BY	DATE
DRAWINGS CORRECTED BY	DATE
MICRO-FILM INFORMATION	DATE
RECORDED BY	NO.

BENCH MARKS

CONTRACTOR	DATE
WORK BY	DATE
INSPECTOR'S ACCEPTANCE BY	DATE
VERIFICATION BY	DATE
DRAWINGS CORRECTED BY	DATE
MICRO-FILM INFORMATION	DATE
RECORDED BY	NO.

SURVEY INFORMATION

FIELD NOTES	DATE
NO.	

ENGINEER'S SEAL

RONALD R. BOHANNAN
NEW MEXICO
7868
PROFESSIONAL ENGINEER

06/26/24

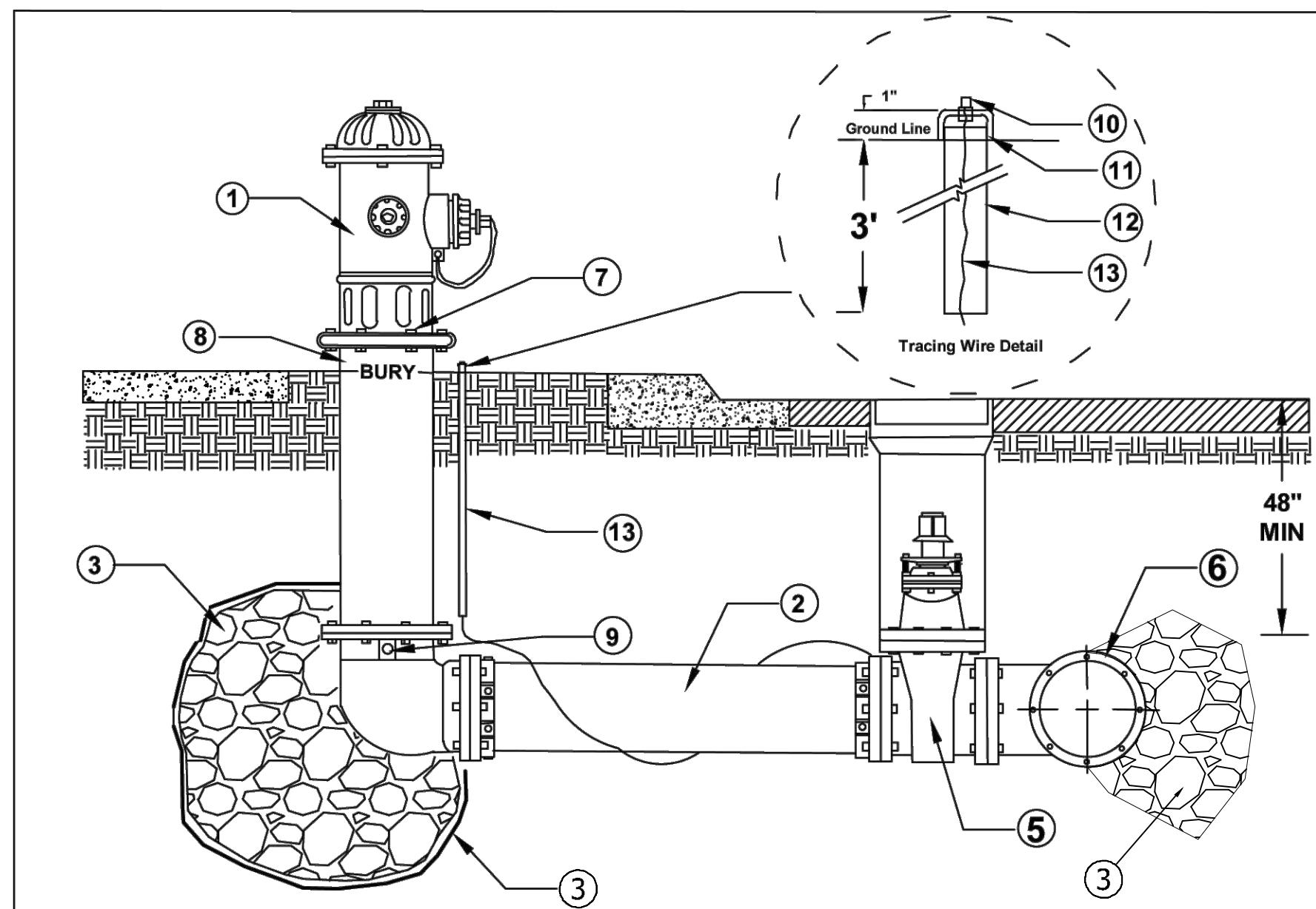
REVISIONS	DATE	BY
DESIGN	JUNE 2024	JN
TANK IMPROVEMENTS	JUNE 2024	RWG
	2023094	MADRID WATER
	JUNE 2024	RRB

TERRA WEST, LLC
5571 MIDWAY PARK PLACE NE
ALBUQUERQUE, NEW MEXICO 87109
(505) 858-3100
www.tierawestllc.com

NEW MEXICO ENERGY MINERAL AND NATURAL RESOURCE
ABANDONED MINE LAND PROGRAM
TITLE: **MADRID WATER - FIRE SUPPRESSION IMPROVEMENTS**
CONSTRUCTION DETAILS

LAST DESIGN UPDATE	MO./DAY/YR.	MO./DAY/YR.

TERRA WEST, LLC
5571 Midway Park Place NE
Albuquerque, NM 87109
Phone: 505-858-3100
Fax: 505-858-1188



NOT TO SCALE

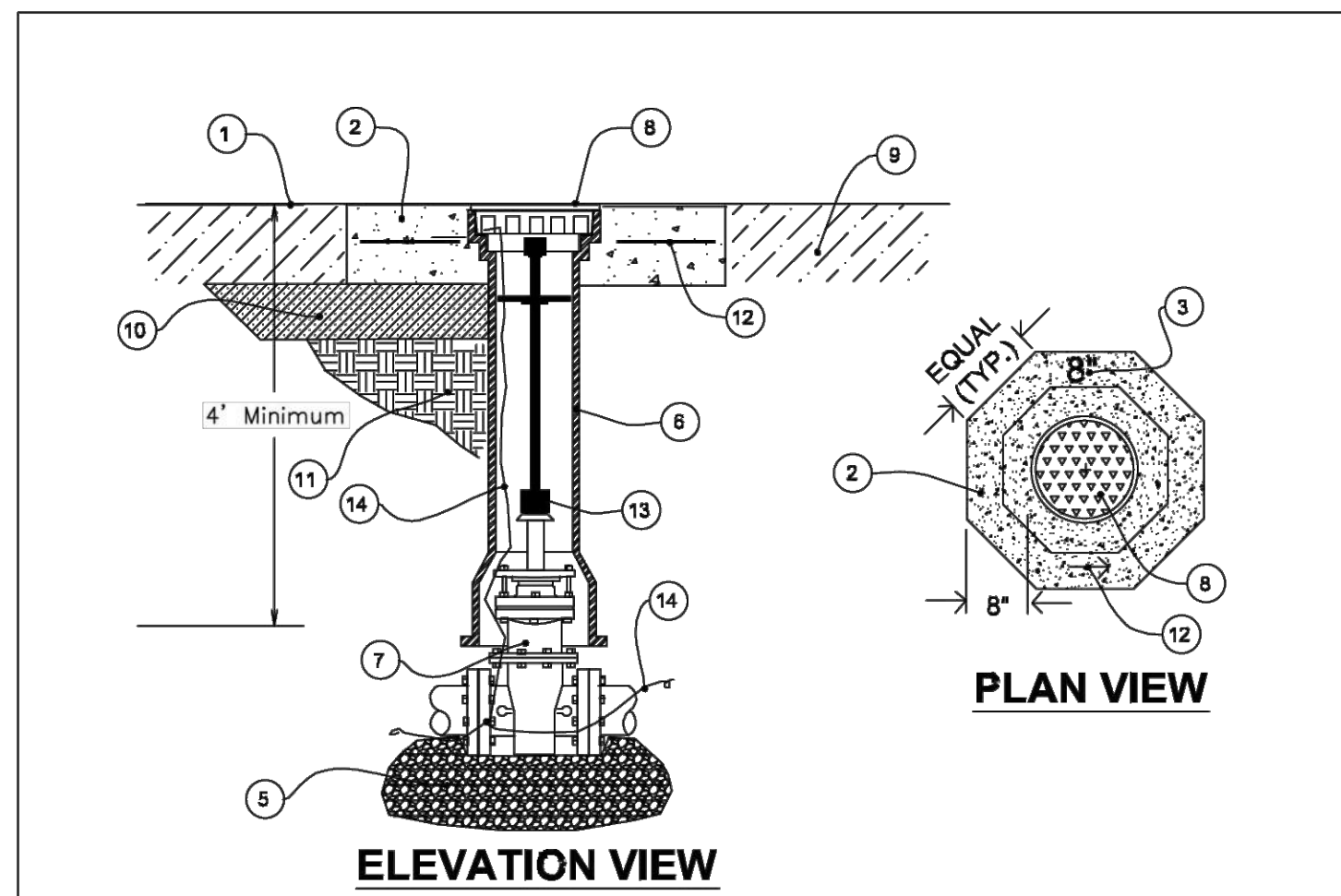
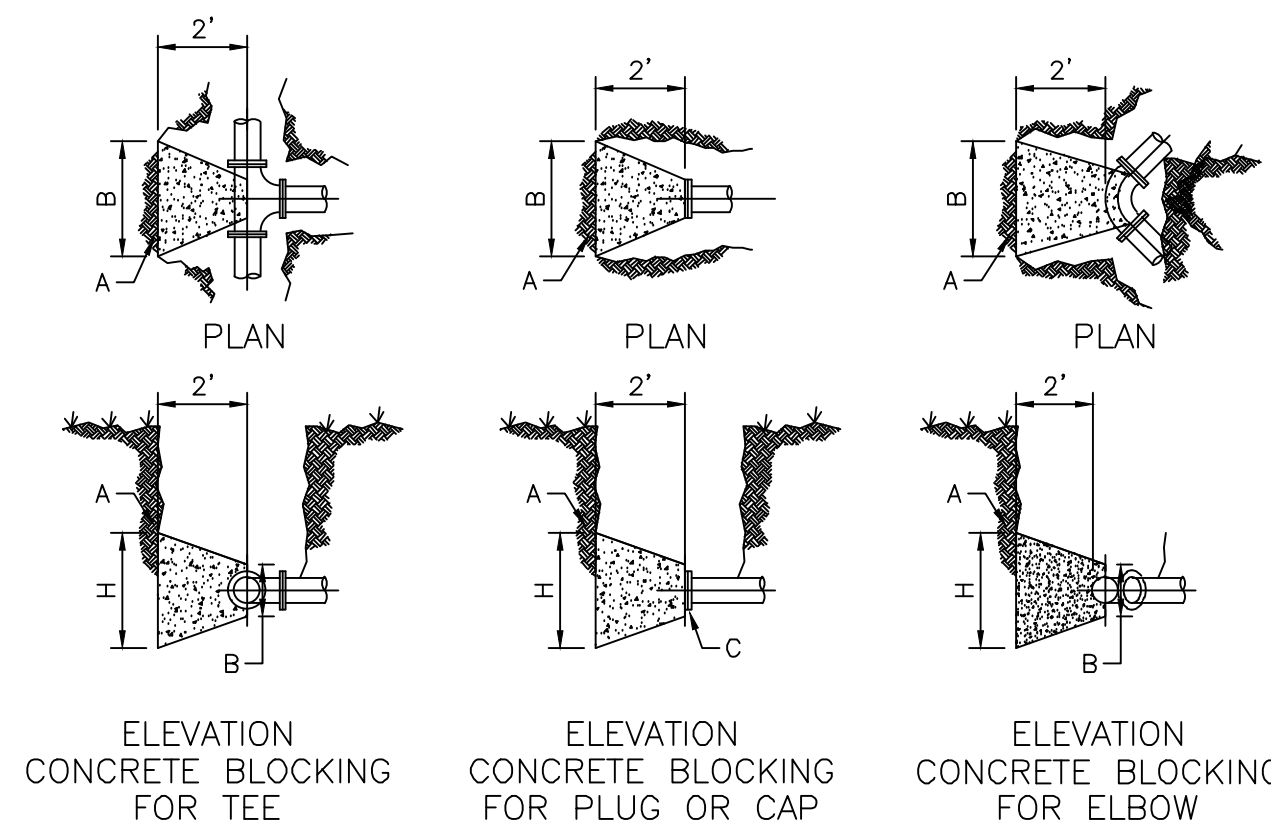
#	DESCRIPTION	#	DESCRIPTION
1	FIRE HYDRANT	8	2" MINIMUM 4" MAXIMUM GAP FROM FINISH GRADE TO BREAK AWAY JOINT
2	6" MINIMUM DUCTILE IRON PIPE*	9	DRAIN (DO NOT BLOCK)
3	CONCRETE THRUSTING BLOCK PER TABLE THIS SHEET	10	NUT AND BOLT WITH WIRE SECURED BY SILVER SOLDER
4		11	GLUED PVC CAP
5	6" MINIMUM GATE VALVE	12	3/4" PVC
6	6" MINIMUM MECHANICAL JOINT TEE FITTING	13	#10 TRACING WIRE
7	BREAK-AWAY CONNECTION	*	ALL BURIED DUCTILE IRON SHALL HAVE CATHODIC PROTECTION

<p>SANTA FE COUNTY UTILITIES STANDARD DETAILS</p>	<p>FIRE HYDRANT</p>	<p>DATE: 3/2021</p>
--	----------------------------	-------------------------

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

CONSTRUCTION NOTE:
 A. UNDISTURBED EARTH
 B. O.D. OF PIPE +6"
 C. O.D. OF CAP OR PLUG, MIN. 12"x12"

CONCRETE BLOCKING DESIGN
 NTS PER COA STD DWG #2320



NOT TO SCALE

#	DESCRIPTION	#	DESCRIPTION
1	FINISH STREET GRADE	8	VALVE BOX LID
2	8" MIN DEPTH - 3000 PSI CONCRETE PAD	9	PAVEMENT
3	STAMPED LINE SIZE (2 SIZES IF REDUCING)	10	SUBGRADE
4	STAMPED ARROW INDICATING ISOLATION DIRECTION(?)	11	COMPACTED BACKFILL
5	98% COMPACTED BACK FILL 42" MINIMUM DEPTH	12	#4 REBAR
6	5-1/4 SCREWTYPE ADJUSTABLE VALVE BOX	13	EXTENSION BAR IF NECESSARY
7	GATE VALVE	14	#12 TRACING WIRE

<p>SANTA FE COUNTY UTILITIES STANDARD DETAILS</p>	<p>VALVE & VALVE BOX INSTALLATION</p>	<p>DATE: 06/2024</p>
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		<p>TIERRA WEST, LLC 5571 Midway Park Place NE Albuquerque, NM 87109 Phone: 505-858-3100 Fax: 505-858-1188</p>
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<p>TIERRA WEST, LLC 5571 MIDWAY PARK PLACE NE ALBUQUERQUE, NEW MEXICO 87109 (505) 858-3100 www.tierrawestllc.com</p>									
<p>NEW MEXICO ENERGY MINERAL AND NATURAL RESOURCE ABANDONED MINE LAND PROGRAM</p>									
<p>TITLE: MADRID WATER - FIRE SUPPRESSION IMPROVEMENTS CONSTRUCTION DETAILS</p>									
<p>DESIGNED BY: JIN DRAWN BY: RWG DRAWN NAME: MADRID WATER TANK IMPROVEMENTS CHECKED BY: RRB</p>	<p>DATE: JUNE 2024 DATE: JUNE 2024 JOB NO.: 2023094 DATE: JUNE 2024</p>								
<p>LAST DESIGN UPDATE</p>	<table border="1"> <tr> <th>MO./DAY/YR.</th> <th>MO./DAY/YR.</th> </tr> <tr> <td> </td> <td> </td> </tr> <tr> <td> </td> <td> </td> </tr> <tr> <td> </td> <td> </td> </tr> </table>	MO./DAY/YR.	MO./DAY/YR.						
MO./DAY/YR.	MO./DAY/YR.								
<p>PROJECT NO. EMNRD-MMD-2025-01</p>	<p>ZONE MAP NO. SHEET 8 OF 16</p>								

AS BUILT INFORMATION	
CONTRACTOR	DATE
WORK BY	DATE
INSPECTOR'S ACCEPTANCE BY	DATE
DRAWINGS VERIFICATION BY	DATE
DESIGNED BY	DATE
DRAWN BY	DATE
CHECKED BY	DATE
MICRO-FILM INFORMATION	
RECORDED BY	DATE
NO.	

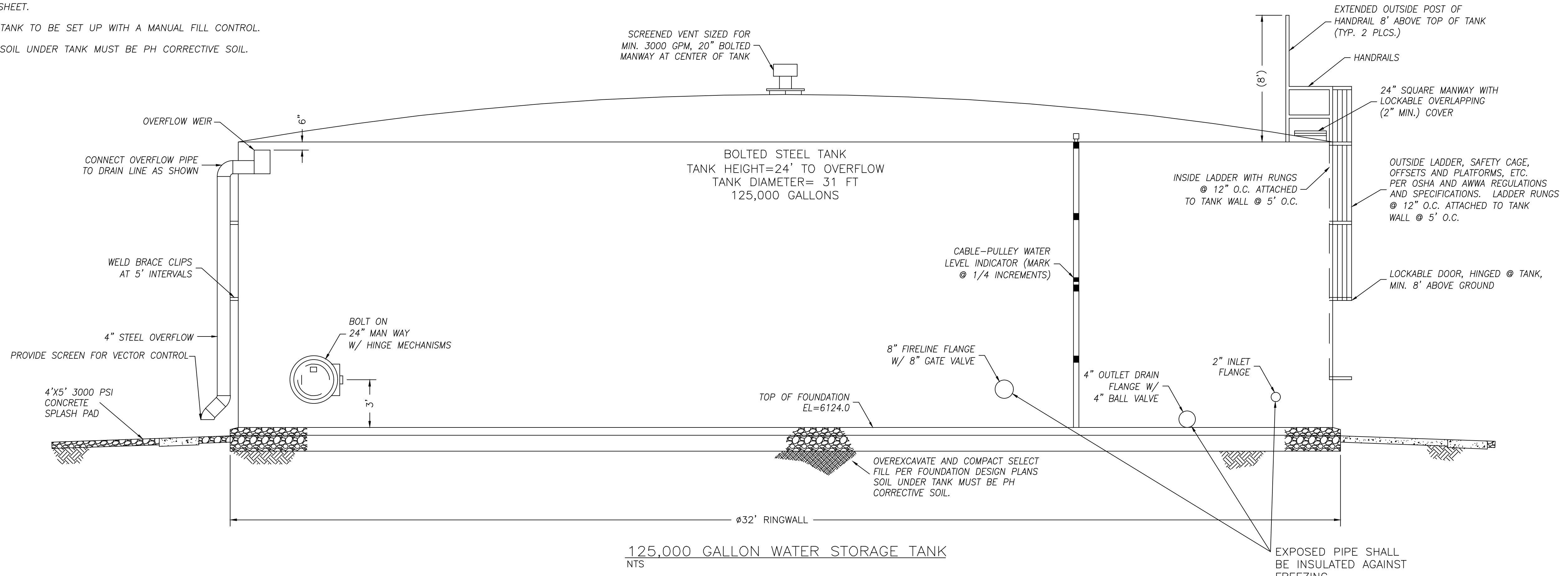
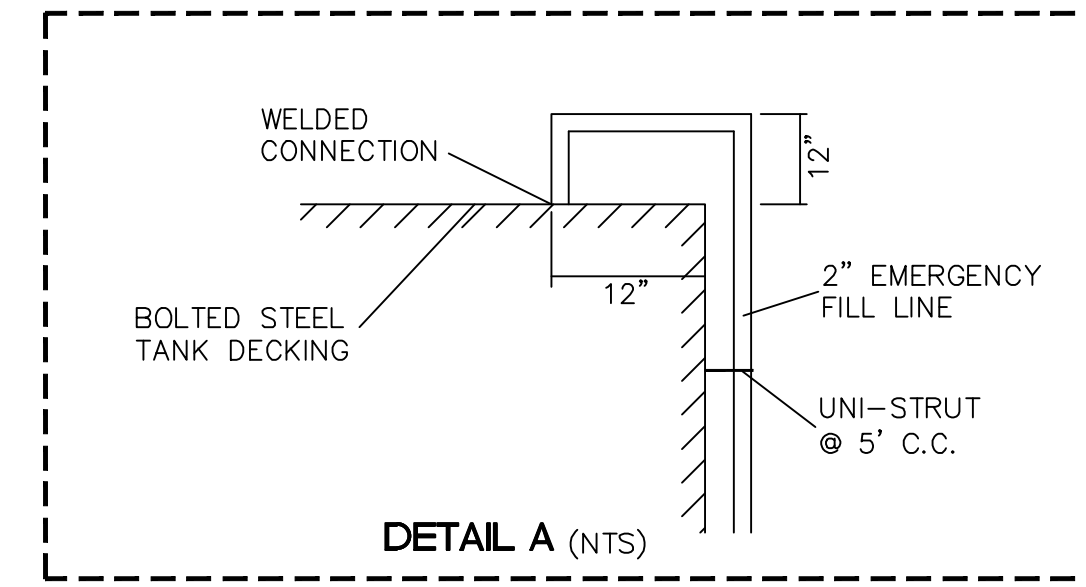
SURVEY INFORMATION	
FIELD NOTES	DATE
NO.	

ENGINEER'S SEAL

06/26/24

NOTES:

1. TANK ACCESSORIES HAVE BEEN ROTATED INTO THE PLANE OF PROJECTION. SEE UTILITY PLAN FOR ACTUAL ORIENTATION.
2. DETAILS SHOWN REFLECT A BOLTED STEEL TANK TO CONFORM TO ANSI/AWWA SPECIFICATION D-103 W/LATEST REVISIONS. COATING SHOULD BE APPLIED PER SECTION D103-97.
3. TANK WILL BE CONNECTED TO SCADA SYSTEM VIA CONDUIT THAT WILL CONNECT AT THE SAME LOCATION AS THE INLET PIPE. TANK SHOULD BE COMPLIANT WITH LATEST SCADA REQUIREMENTS.
4. MANUFACTURER TO PROVIDE A TANK WITH EQUIVALENT OR GREATER SPECIFICATIONS THAN THOSE INDICATED ON THIS SHEET.
5. TANK TO BE SET UP WITH A MANUAL FILL CONTROL.
6. SOIL UNDER TANK MUST BE PH CORRECTIVE SOIL.



125,000 GALLON WATER STORAGE TANK
NTS

NOTE:
THIS IS A SCHEMATIC DETAIL. REFER TO TANK DESIGN PLANS FOR ACTUAL LOCATIONS OF OPENINGS.

AS BUILT INFORMATION	
CONTRACTOR	
WORK STARTED BY	DATE
FIELD ACCEPTANCE BY	DATE
DESIGNATION BY	DATE
CORRECTED BY	DATE
MICRO-FILM INFORMATION	
RECORDED BY	DATE
NO.	

BENCH MARKS	

SURVEY INFORMATION	
FIELD NOTES	DATE
NO.	BY

ENGINEER'S SEAL	
04/16/24	

NO.	DATE	REMARKS	BY
		DESIGN	

DESIGNED BY: JN	DATE: JUNE 2024
DRAWN BY: RMG	DATE: JUNE 2024
DRAWN NAME: MADRID WATER TANK IMPROVEMENTS	JOB NO.: 2023094
CHECKED BY: RRB	DATE: JUNE 2024

TERRA WEST, LLC
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(505) 858-3100
www.tierwestllc.com

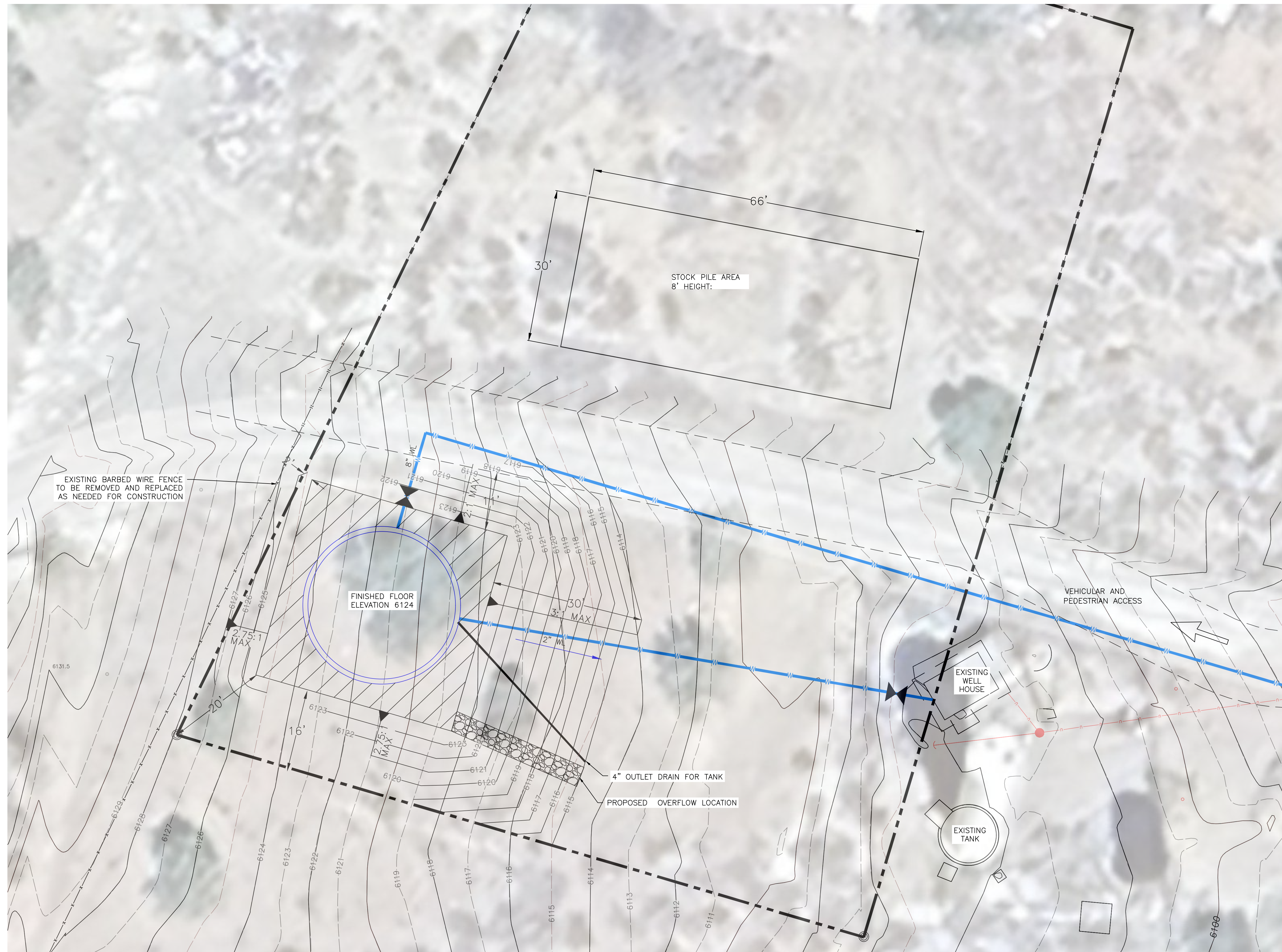
NEW MEXICO ENERGY MINERAL AND NATURAL RESOURCE
ABANDONED MINE LAND PROGRAM

TITLE:
MADRID WATER - FIRE SUPPRESSION IMPROVEMENTS
WATER STORAGE TANK SPECIFICATIONS

LAST DESIGN UPDATE	MO./DAY/YR.	MO./DAY/YR.

PROJECT NO. EMNRD-MMD-2025-01 ZONE MAP NO. - SHEET **9** OF **16**

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LEGEND

- BOUNDARY LINE
- - - EASEMENT
- - - CENTERLINE
- - - RIGHT-OF-WAY
- BUILDING
- 5010--- CONTOUR MAJOR
- 5011--- CONTOUR MINOR
- x 5048.25 SPOT ELEVATION
- FLOW ARROW
- PROPOSED 8" WATERLINE
- 5010--- EXISTING CONTOUR MAJOR
- 5011--- EXISTING CONTOUR MINOR
- 5048.25 EXISTING SPOT ELEVATION

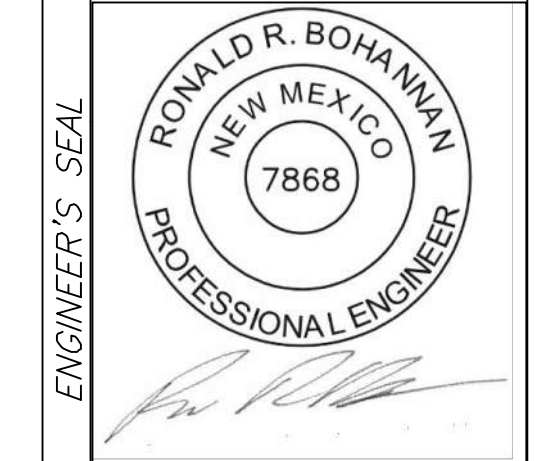
NOTES

1. 3" TO 4" FRACTURED ROCK OVER MIRAFI FABRIC, ON SLOPES 3:1 OR STEEPER.
2. EXISTING ACCESS ROADWAY TO BE STABILIZED WITH 4" GRAVEL SURFACE.
3. HYDROLOGY CALCULATIONS HAVE BEEN PROVIDED WITH SITE DEVELOPMENT PLAN REPORT.

AS BUILT INFORMATION	
CONTRACTOR	DATE

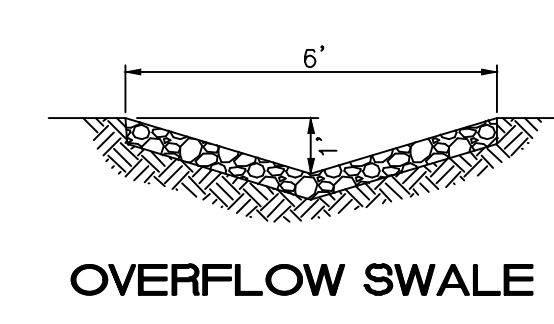
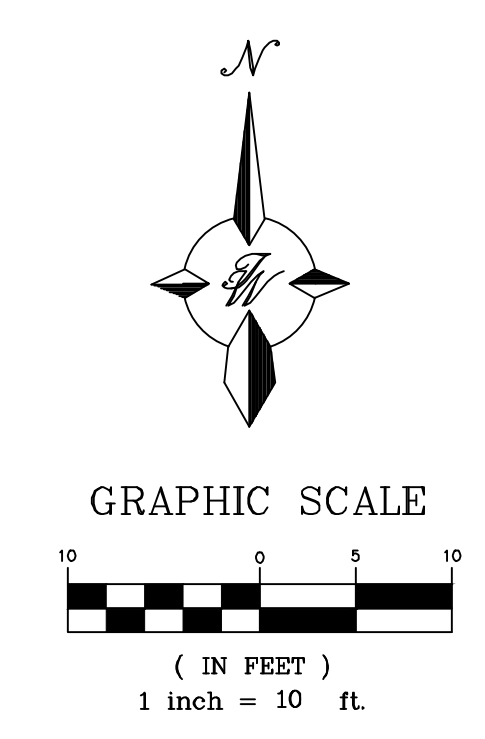
BENCH MARKS	
CONTRACTOR	DATE

SURVEY INFORMATION	
FIELD NOTES	DATE



06/26/24

NO.	DATE	BY	REMARKS / REVISIONS



CAUTION
 ALL EXISTING UTILITIES SHOWN WERE OBTAINED FROM RESEARCH, AS-BUILTS, SURVEYS OR INFORMATION PROVIDED BY OTHERS. IT SHALL BE THE SOLE RESPONSIBILITY OF THE CONTRACTOR TO CONDUCT ALL NECESSARY FIELD INVESTIGATIONS PRIOR TO AND INCLUDING ANY EXCAVATION, TO DETERMINE THE ACTUAL LOCATION OF UTILITIES AND OTHER IMPROVEMENTS, PRIOR TO STARTING THE WORK. ANY CHANGES FROM THIS PLAN SHALL BE COORDINATED WITH AND APPROVED BY THE ENGINEER.

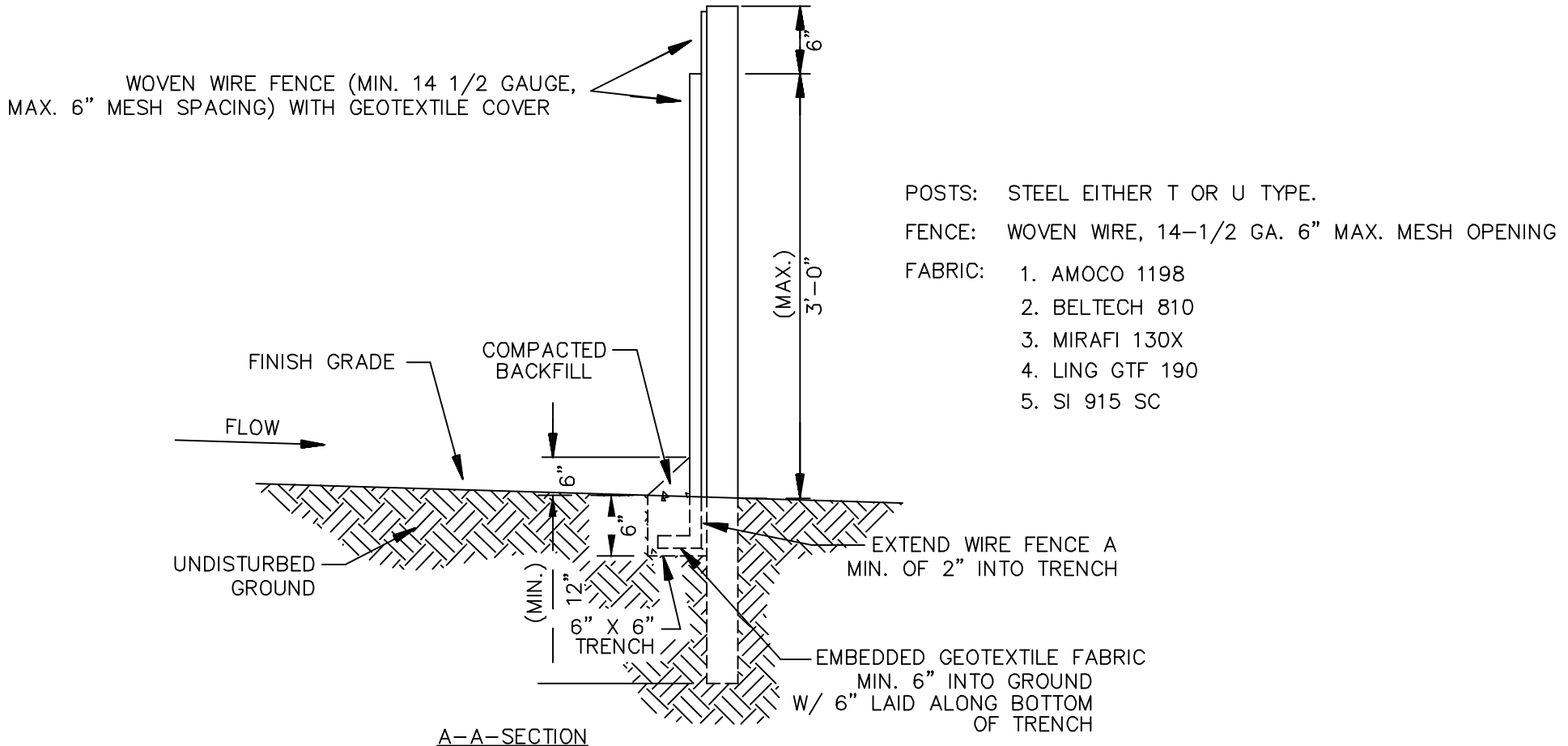
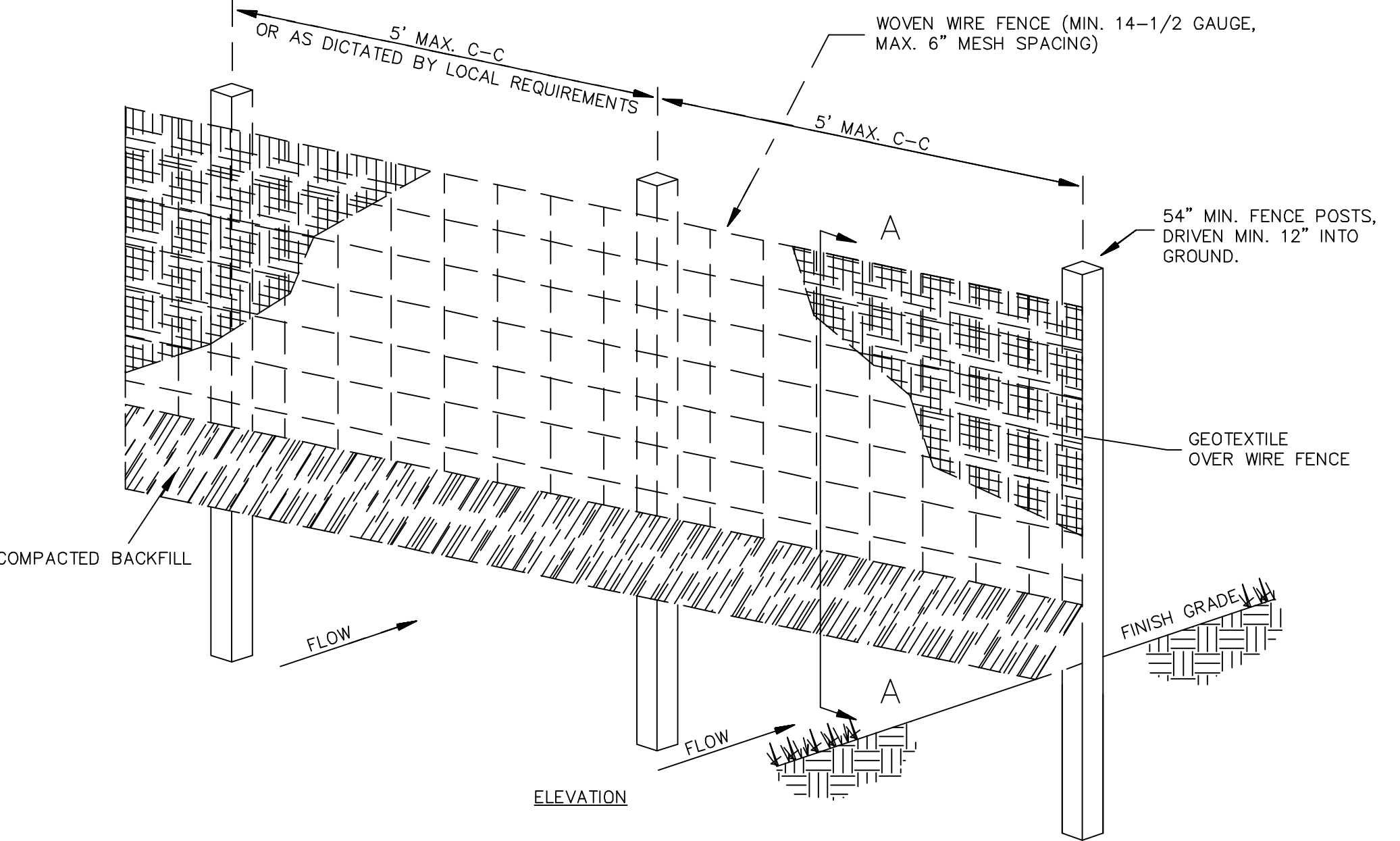
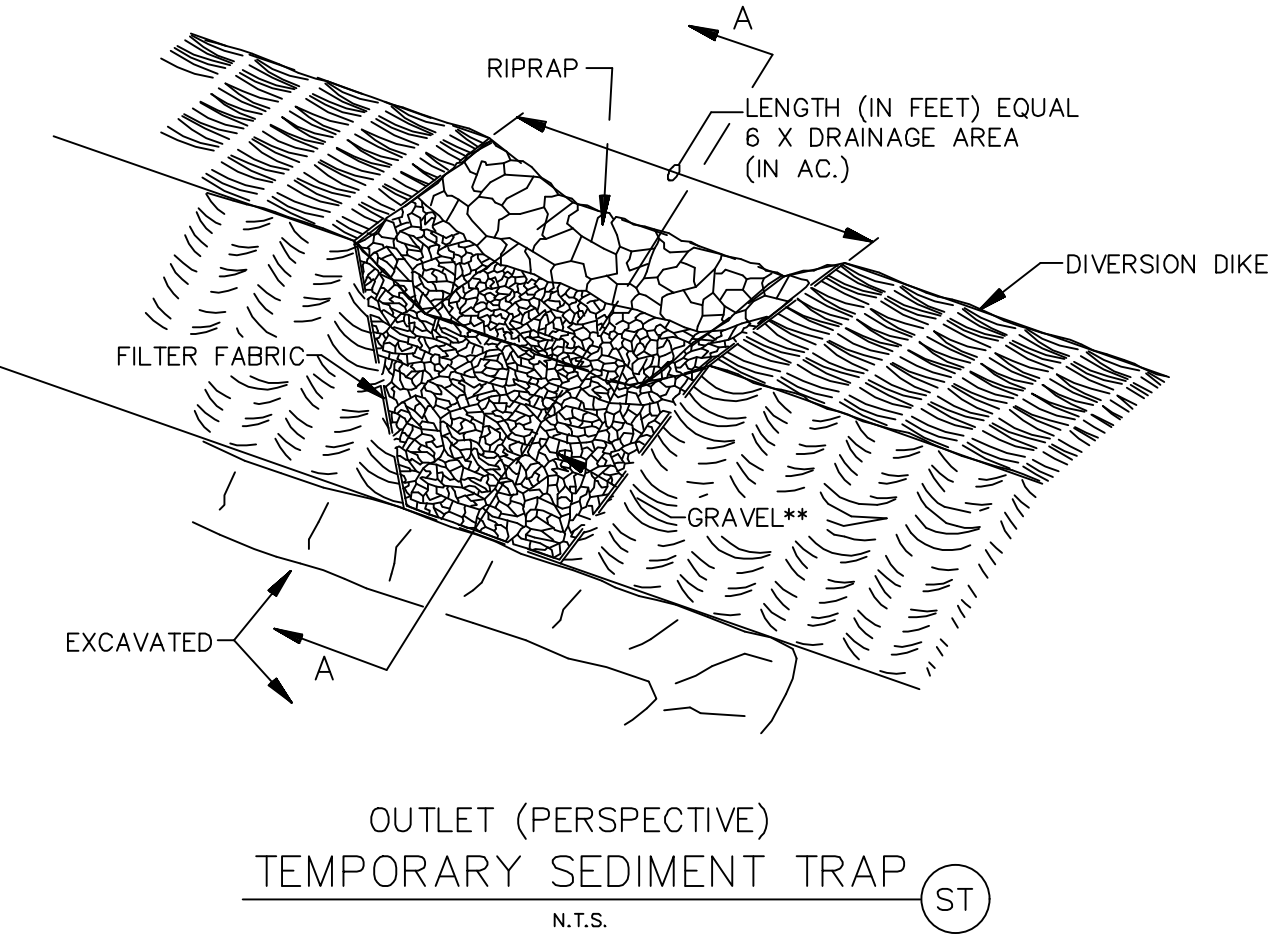
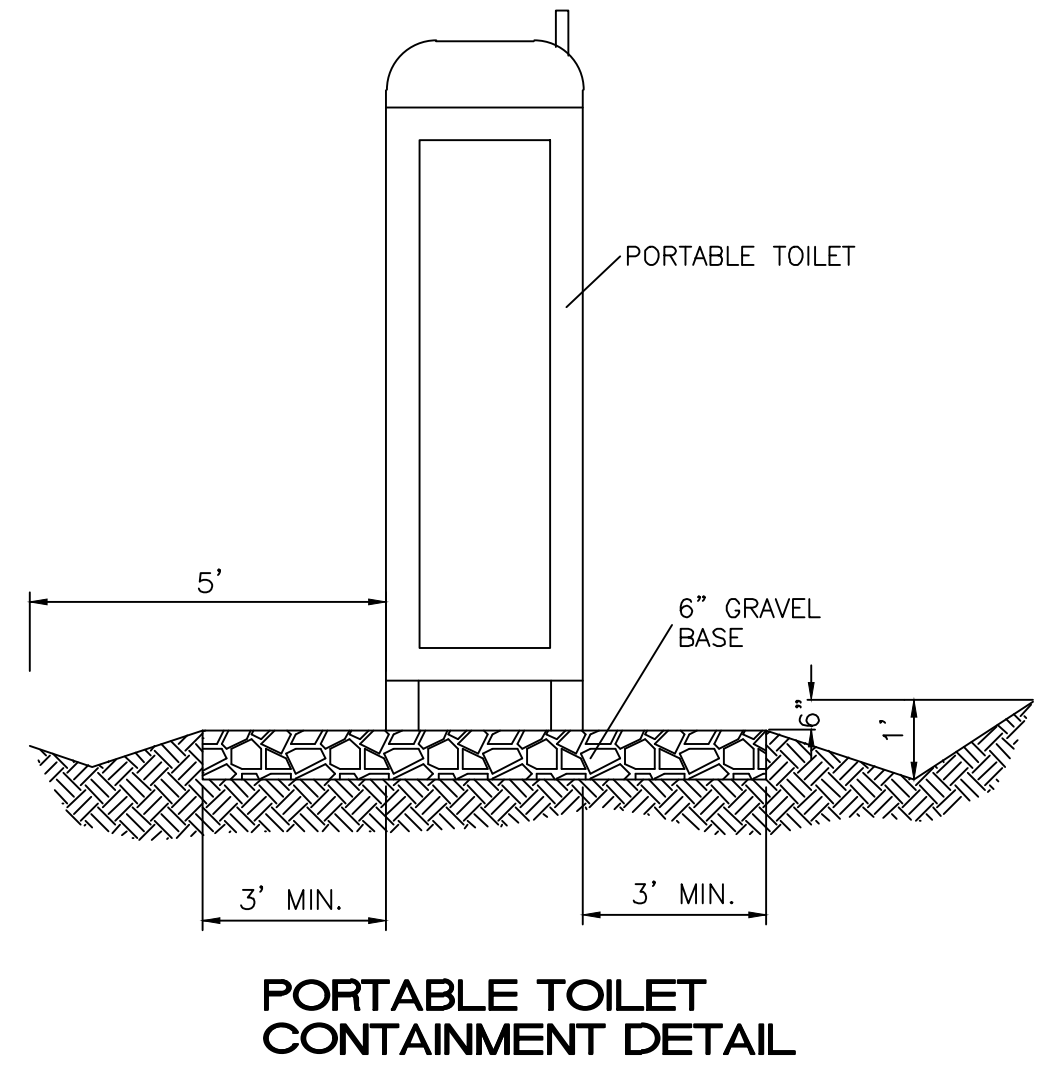
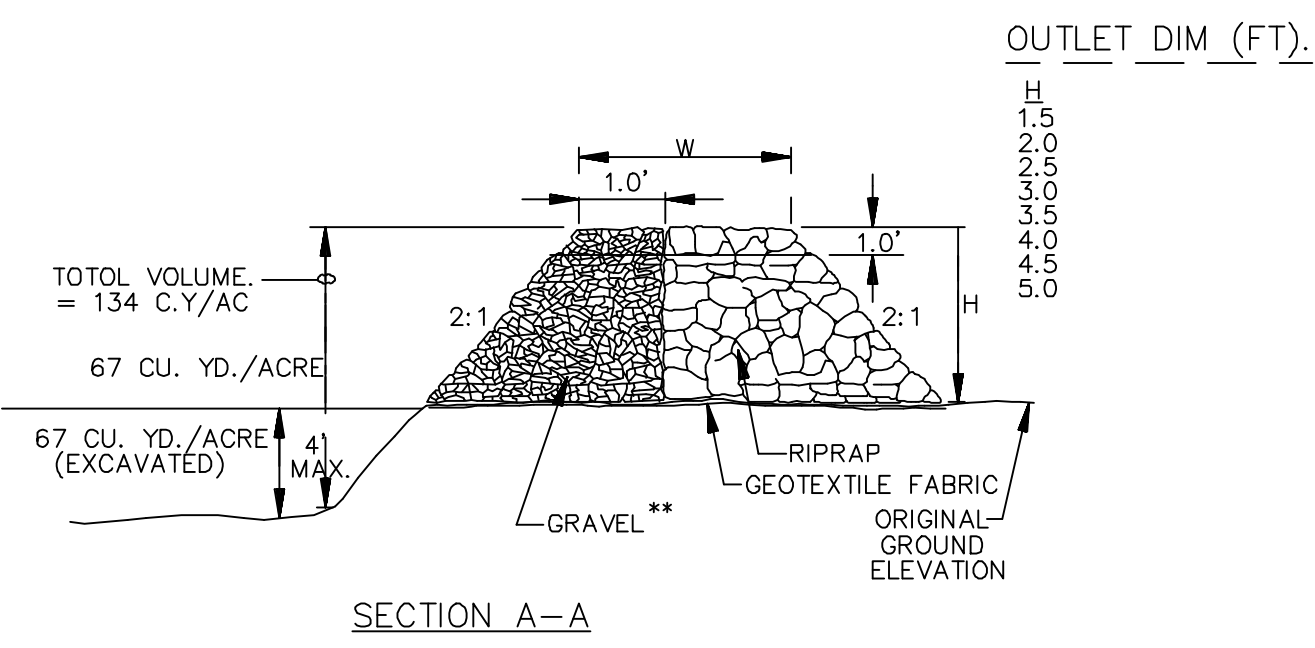
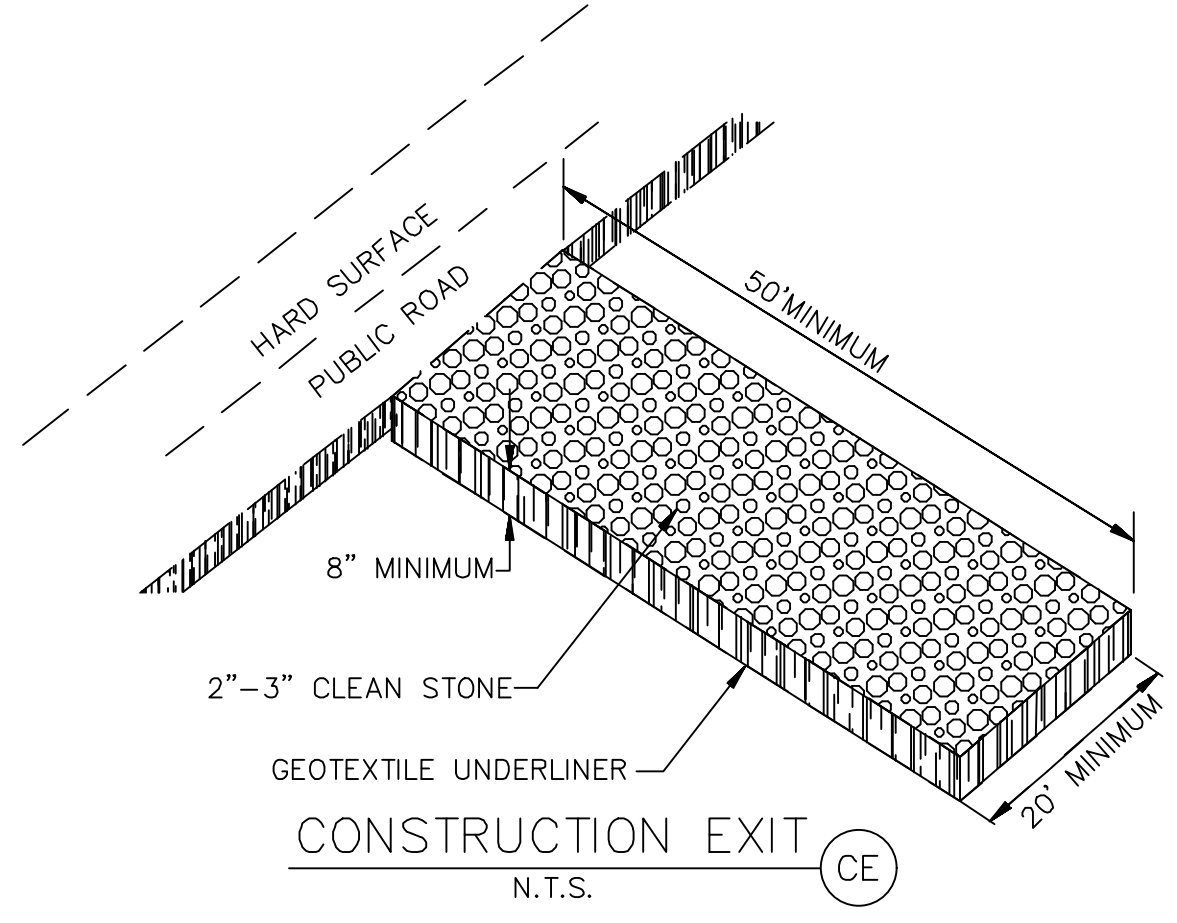
TIERRA WEST, LLC
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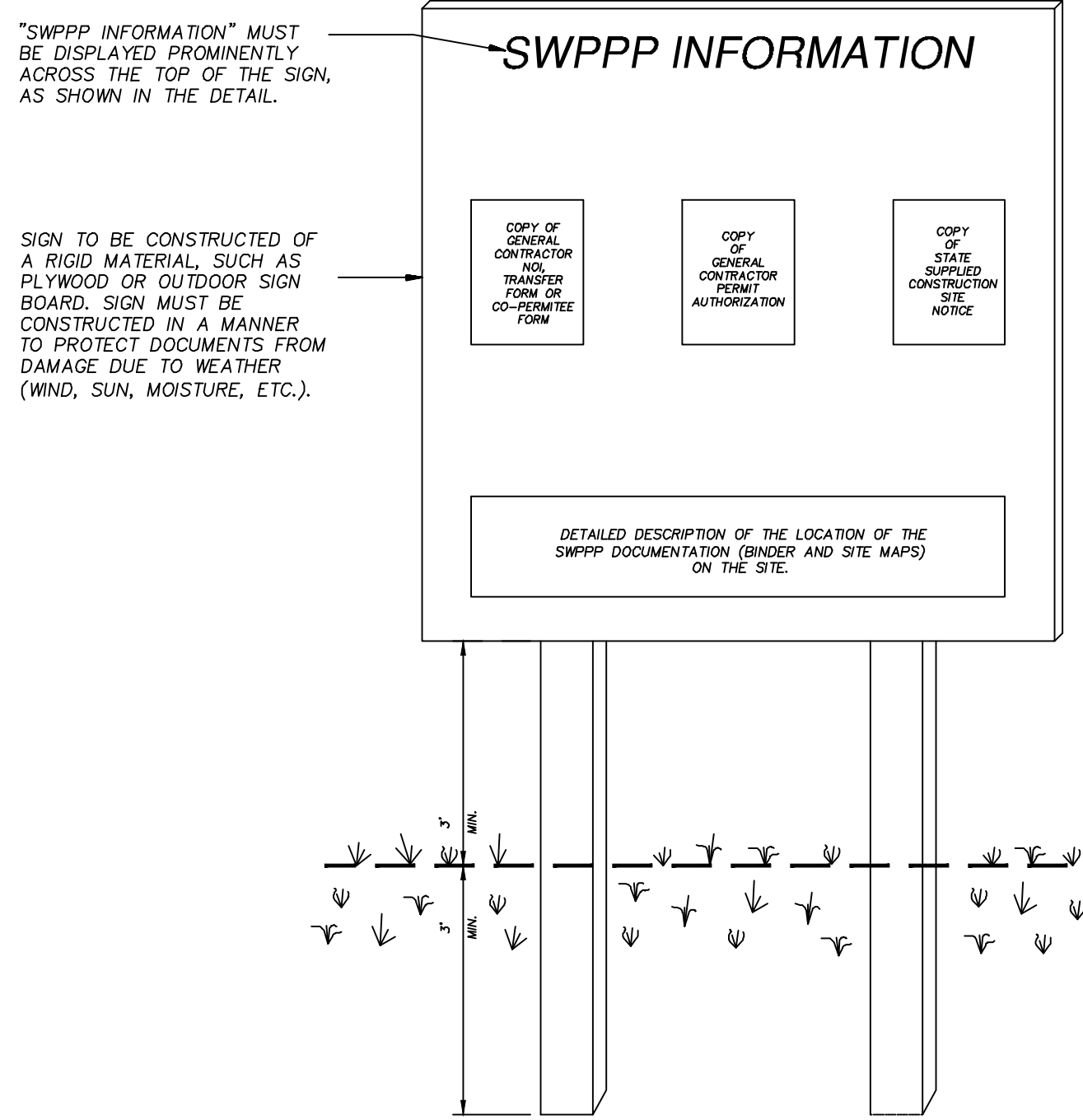
NEW MEXICO ENERGY MINERAL AND NATURAL RESOURCE
 ABANDONED MINE LAND PROGRAM

TITLE:
**MADRID WATER - FIRE SUPPRESSION IMPROVEMENTS
 STOCKPILE PLAN**

PROJECT NO.	ZONE MAP NO.	SHEET	OF
EMNRD-MMD-2025-01	-	13	16



- WOVEN WIRE FENCE TO BE FASTENED SECURELY TO FENCE POSTS WITH WIRE TIES.
- GEOTEXTILE TO BE FASTENED SECURELY TO WOVEN WIRE FENCE WITH TIES SPACED EVERY 24" AT TOP AND MID SECTION.
- WHEN TWO SECTIONS OF GEOTEXTILE ADJOIN EACH OTHER THEY SHALL BE OVERLAPPED BY SIX INCHES AND FOLDED.
- MAINTENANCE SHALL BE PERFORMED AS NOTED IN THE EROSION CONTROL PLAN. COLLECTED MATERIAL SHALL BE REMOVED WHEN "BULGES" DEVELOP IN THE SILT FENCE.
- ALL SILT FENCE SHALL INCLUDE WIRE SUPPORT UNLESS INDICATED OTHERWISE



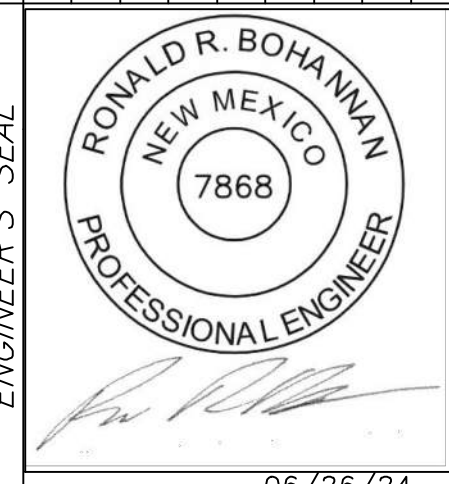
- NOTES:
- THE SWPPP INFORMATION SIGN MUST BE LOCATED NEAR THE CONSTRUCTION EXIT OF THE SITE, SUCH THAT IT IS ACCESSIBLE AND VIEWABLE BY THE GENERAL PUBLIC, BUT NOT OBSTRUCTING VIEWS AS TO CAUSE A SAFETY HAZARD.
 - ALL POSTED DOCUMENTS MUST BE MAINTAINED IN A CLEARLY READABLE CONDITION AT ALL TIMES THROUGHOUT CONSTRUCTION AND UNTIL THE NOTICE-OF-TERMINATION (NOT) IS FILED FOR THE PERMIT.
 - CONTRACTOR SHALL POST OTHER STORM WATER AND/OR EROSION AND SEDIMENT CONTROL RELATED PERMITS ON THE SIGN AS REQUIRED BY THE GOVERNING AGENCY.
 - SIGN SHALL BE LOCATED OUTSIDE OF PUBLIC RIGHT-OF-WAY AND EASEMENTS UNLESS APPROVED BY THE GOVERNING AGENCY.
 - CONTRACTOR IS RESPONSIBLE FOR ENSURING STABILITY OF THE SWPPP INFORMATION SIGN.

SWPPP INFORMATION SIGN N.T.S.

SEDIMENTATION/SILT FENCE WITH WIRE SUPPORT N.T.S.

AS BUILT INFORMATION	
CONTRACTOR	DATE
WORK BY	DATE
INSPECTOR'S ACCEPTANCE BY	DATE
VEGETATION BY	DATE
DRAWINGS CORRECTED BY	DATE
REVISIONS BY	DATE
MICRO-FILM INFORMATION	
RECORDED BY	DATE
NO.	DATE

SURVEY INFORMATION	
FIELD NOTES	DATE
BY	DATE
NO.	DATE



REVISIONS	
NO.	DATE
BY	DATE
REMARKS	DATE
DESIGN	DATE
DESIGNED BY: JN	DATE: JUNE 2024
DRAWN BY: RMG	DATE: JUNE 2024
DRAWN NAME: MADRID WATER TANK IMPROVEMENTS	JOB NO.: 2023094
CHECKED BY: RRB	DATE: JUNE 2024

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NEW MEXICO ENERGY MINERAL AND NATURAL RESOURCE
 ABANDONED MINE LAND PROGRAM

TITLE: **MADRID WATER - FIRE SUPPRESSION IMPROVEMENTS**
EROSION CONTROL DETAILS

LAST DESIGN UPDATE	
MO./DAY/YR.	MO./DAY/YR.
PROJECT NO.	ZONE MAP NO.
EMNRD-MMD-2025-01	-
SHEET	OF
16	16

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