# CONSTRUCTION PLANS FOR MADRID FIRE SUPPRESSION SYSTEM IMPROVEMENTS

NM HIGHWAY 14

SANTA FE COUNTY, NEW MEXICO SEPTEMBER, 2024



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VICINITY MAP

- 1. 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.
- 2. IMPROVEMENTS ASSOCIATED WITH THIS PROJECT DO NOT MEET THE DEFINITION OF A PUBLIC WATER SYSTEM.

TIERRA WEST, LLC 5571 MIDWAY PARK PLACE NE ALBUQUERQUE, NEW MEXICO 87109 (505) 858-3100

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/	NAME OF THE PARTY OF THE	04-17	-24	PROJECT	NO				-	SL		

EMNRD-MMD-2025-01

RONALD R. BOHANNAN



#### GENERAL NOTES

- 1. 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
- 2. 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.
- 3. 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.
- 4. 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)
- 5. 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.
- 6. 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.
- 7. 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.
- 8. 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.
- 9. CONTRACTOR SHALL MAINTAIN A GRAFFITI-FREE WORK SITE. CONTRACTOR SHALL PROMPTLY REMOVE ANY AND ALL GRAFFITI FROM EQUIPMENT, WHETHER PERMANENT OR TEMPORARY.
- 10. 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.
- 11. 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.
- 12. SOIL REMOVALS MAY BE DISPOSED OF ON NORTHERN HALF OF SITE AS DIRECTED BY THE MADRID WATER BOARD PROJECT MANAGER.

#### UTILITIES

- 1. WATER & SEWER IF WITHIN NMDOT RIGHT OF WAY WILL REQUIRE A UTILITY PERMIT THAT SHALL BE SUBMITTED AND AND CONCURRED PRIOR TO INSTALLATION
- 2. 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.
- 3. MANHOLE RIMS, FIRE HYDRANT ELEVATIONS, AND FLANGE ELEVATIONS SHOWN ARE APPROXIMATE. CONTRACTOR SHALL FIELD VERIFY AND ADJUST TO FINAL PAVEMENT OR SURFACE GRADES.
- 4. 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"
- 5. PROPOSED WATERLINE MATERIALS MUST COMPLY WITH NMDOT STANDARD SPECIFICATIONS.
- 6. 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.
- 7. 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.
- 8. TRACER WIRE SHALL BE INCLUDED FOR ALL PUBLIC WATER AND SEWER MAINS AND FOR WATER SERVICES IN ACCORDANCE WITH NMDOT DETAILS.
- 9. CONTRACTOR SHALL PROVIDE THE PROPOSED HYDRO TESTING PLANS TO MADRID WATER DOMESTIC MUTUAL FOR APPROVAL PRIOR TO BEGINNING TESTING OPERATIONS.
- 10. 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.

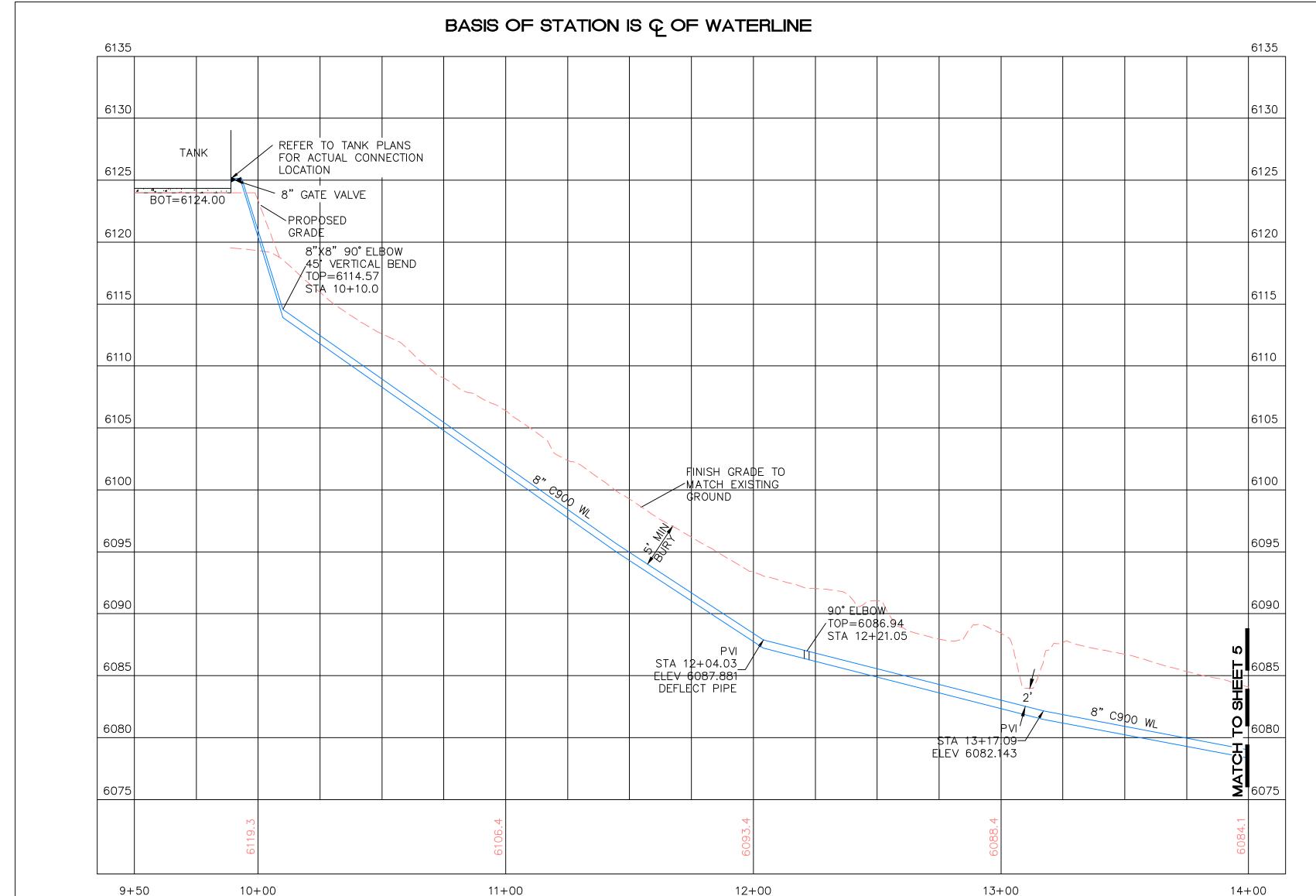
#### OTHER COMMON NOTES

1. ALL EXCAVATION, TRENCHING, AND SHORING ACTIVITIES MUST BE ACCOMPLISHED IN ACCORDANCE WITH OSHA 29CFR 1926.650 SUBPART P.

- 2. 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.
- 3. 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.
- 4. 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.
- 5. 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.
- 6. 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.
- 7. CONTRACTOR SHALL CONDUCT ALL WORK IN A MANNER WHICH WILL MINIMIZE INTERFERENCE WITH LOCAL TRAFFIC.
- 8. ALL EXISTING SIGNS, MARKERS, DELINEATORS, ETC., WITHIN THE CONSTRUCTION LIMITS SHALL BE REMOVED, STORED AND RE-SET BY THE CONTRACTOR.
- 9. 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.
- 10. 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.
- 11. 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
- 12. ALL NMDOT MONUMENTS MUST BE PRESERVED. IF AN NMDOT MONUMENT IS IN CONFLICT WITH THE PROPOSED IMPROVEMENTS PLEASE CONTACT NMDOT FOR GUIDANCE

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						REMARKS	REVISIONS	DESIGN			WATER TANK IMPROVEMENTS	
5571 MIDWA ALBUQUERQUE,	WEST, LLC Y PARK PLACE NE NEW MEXICO 87109 858-3100 crawestllc.com	_				NO. DATE			DESIGNED BY: JN	DRAWN BY: RMG	DRAWN NAME: MADRID W	CHECKED BY: RRB
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5571 Midway Park Place NE Albuquerque, NM 87109  Phone: 505-858-3100 Fax: 505-858-1118	EMNRD-MMD-2025-01		2	<sup>°</sup> 16





( IN FEET )

1 inch = 30 ft.

GRAPHIC SCALE

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

- 1) PROPOSED TANK 125000 GAL 30' DIA 25' HIGH BOTTOM=6124.00
- 2 CONNECT TO TANK PER MANUFACTURER SPECIFICATIONS IE=6124.6
- 3 10+10.00 0.0 RT 2-45 ELBOWS
- 4 12+21.05 0.0 RT 2-45' ELBOWS
- 5 NOT USED
- 6 2" END CAP TO BE INSTALLED BY UTILITY CONTRACTOR AT INTERIM
- 7) 11+11.8 21.2 RT ELEV AT EXIST WELL HOUSE 6100.00
- 8 10+25.4 35.1 RT ELEV AT TANK HOUSE 6124.00

#### <u>NOTES</u>

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

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 5571 MIDWAY PARK PLACE NE ALBUQUERQUE, NEW MEXICO 87109 (505) 858-3100 www.tiérrawestllc.com

NEW MEXICO ENERGY MINERAL AND NATURAL RESOURCE ABANDONED MINE LAND PROGRAM

### MADRID WATER - FIRE SUPPRESSION IMPROVEMENTS STA 10+00 TO STA 14+00

MO./DAY/YR. MO./DAY/YR.



**SITE BENCHMARK** 

SET CP-NO. 5 REBAR

WITH ALUMINUM CAP

OPUS POINT

"PS 11993"

N=1,601,031.522

E=1,668,078.227

EL=6098.877

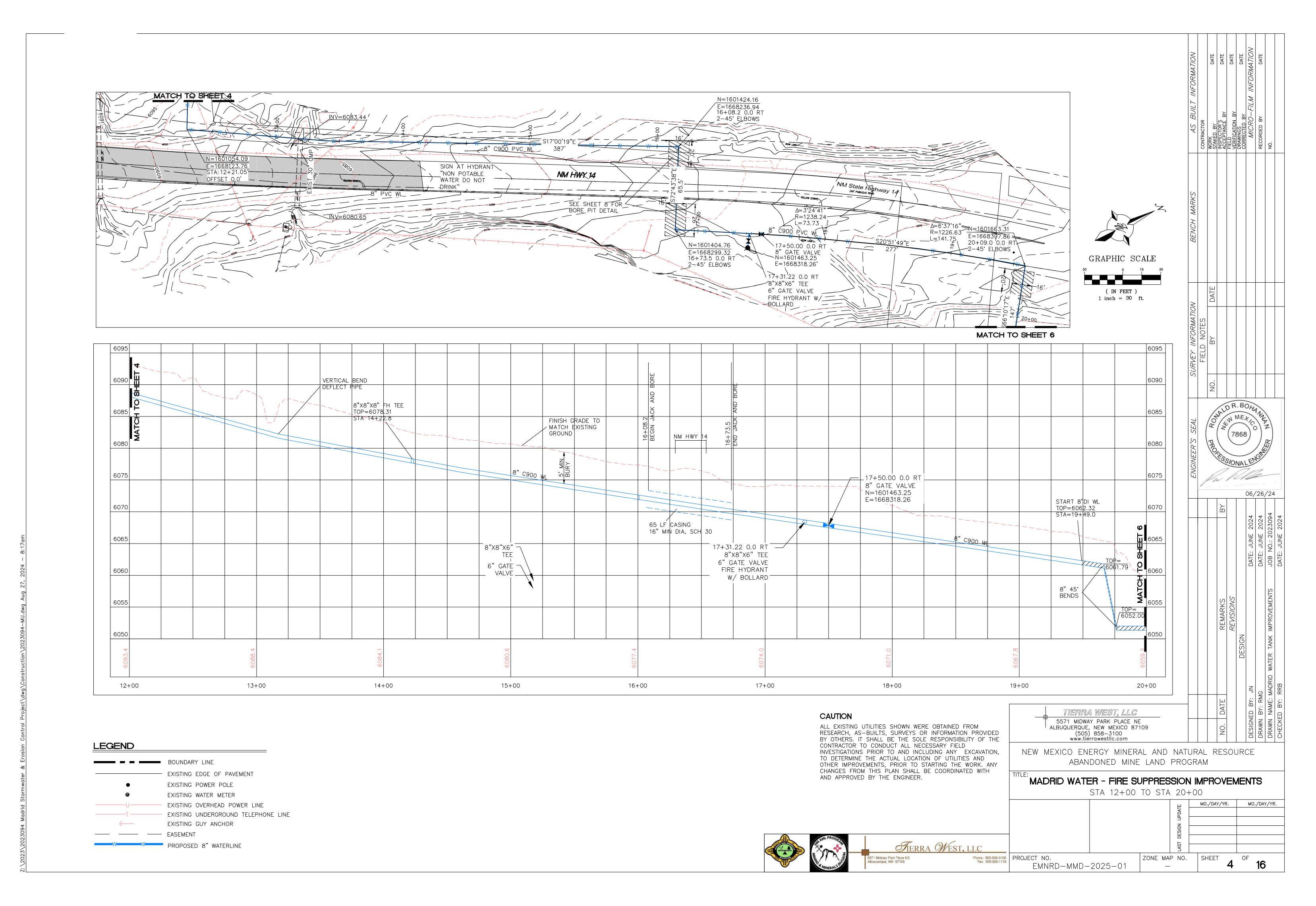


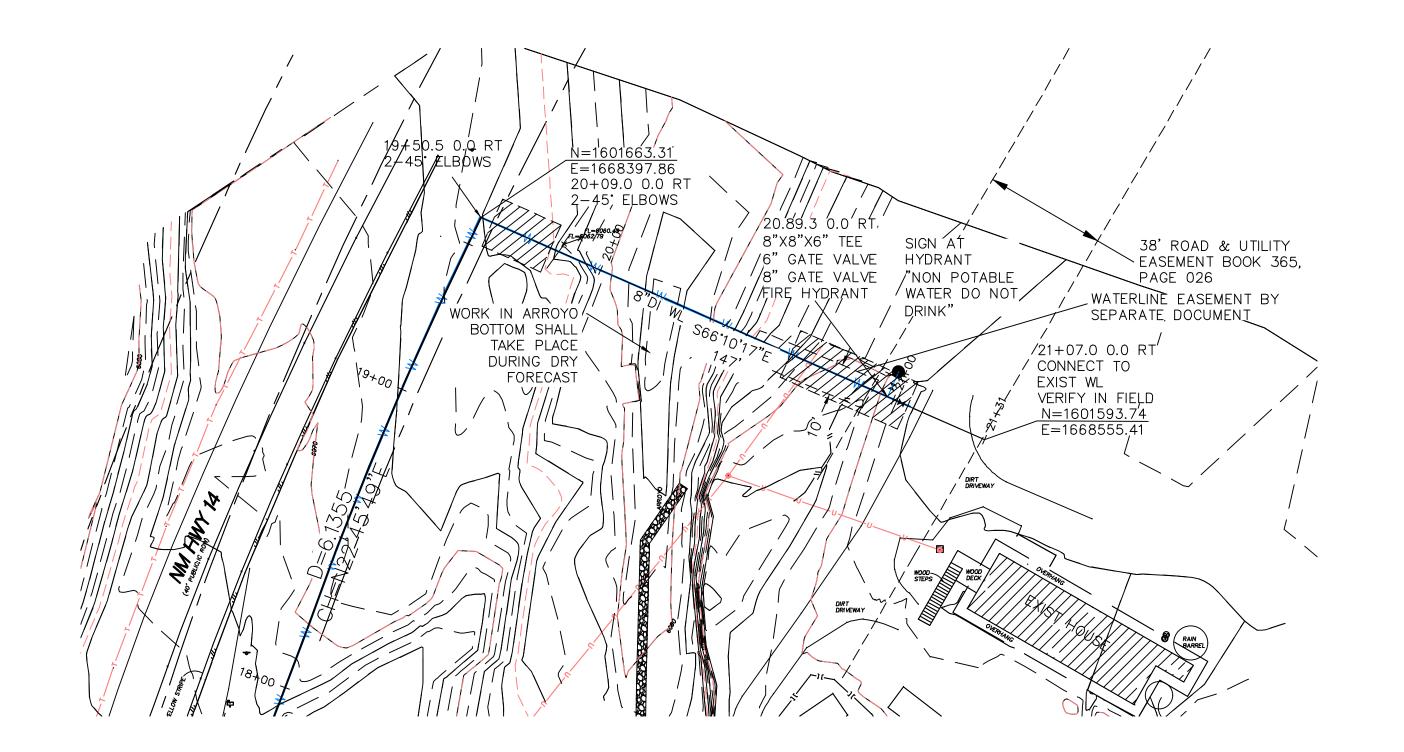
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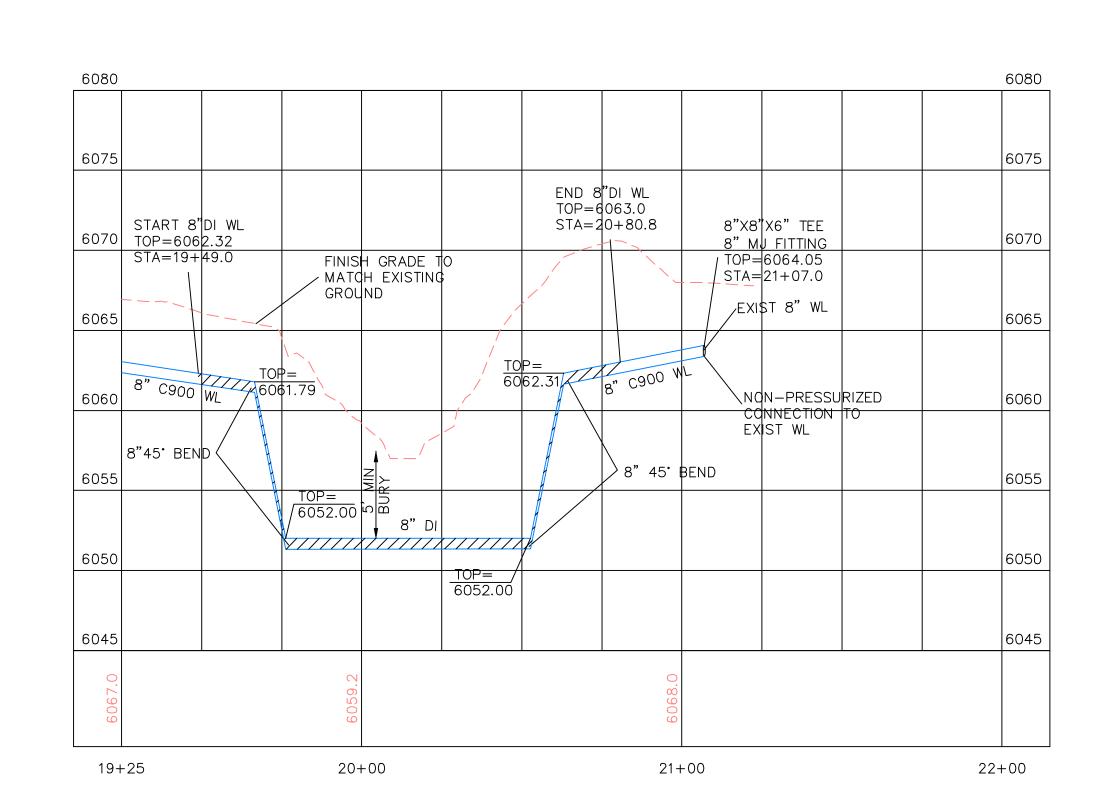
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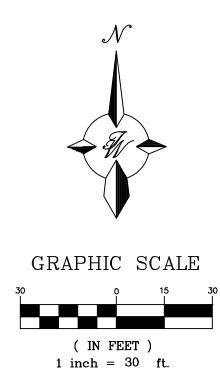
3 OF SHEET

06/26/24









#### NOTES

1. IF JOINTS ARE REQUIRED FOR THE SEGMENT OF PIPE UNDER THE ARROYO, BUTT FUSION WILL BE REQUIRED AT

LEGEND

BOUNDARY LINE

---- EASEMENT

- EXISTING EDGE OF PAVEMENT

EXISTING OVERHEAD POWER LINE

EXISTING UNDERGROUND TELEPHONE LINE

EXISTING POWER POLE EXISTING WATER METER

EXISTING GUY ANCHOR

PROPOSED 8" WATERLINE

2. IT WILL BE THE RESPONSIBILITY OF THE UTILITY CONTRACTOR TO DECOMMISSION AND ABANDON THE EXISTING FIRE SUPPRESSION LINE IN PLACE.

	E DE V: JN RMG E: MADRID WATER Y: RRB	
5571 MIDWAY PARK PLACE NE ALBUQUERQUE, NEW MEXICO 87109 (505) 858-3100 www.tierrawestllc.com	NO. DESIGNED DRAWN B. DRAWN N. CHECKED	

06/26/24

NEW MEXICO ENERGY MINERAL AND NATURAL RESOURCE ABANDONED MINE LAND PROGRAM

# MADRID WATER - FIRE SUPPRESSION IMPROVEMENTS

STA 19+50 TO STA 21+75							
		ш	MO./DAY/YR.	MO./DAY/YR.			
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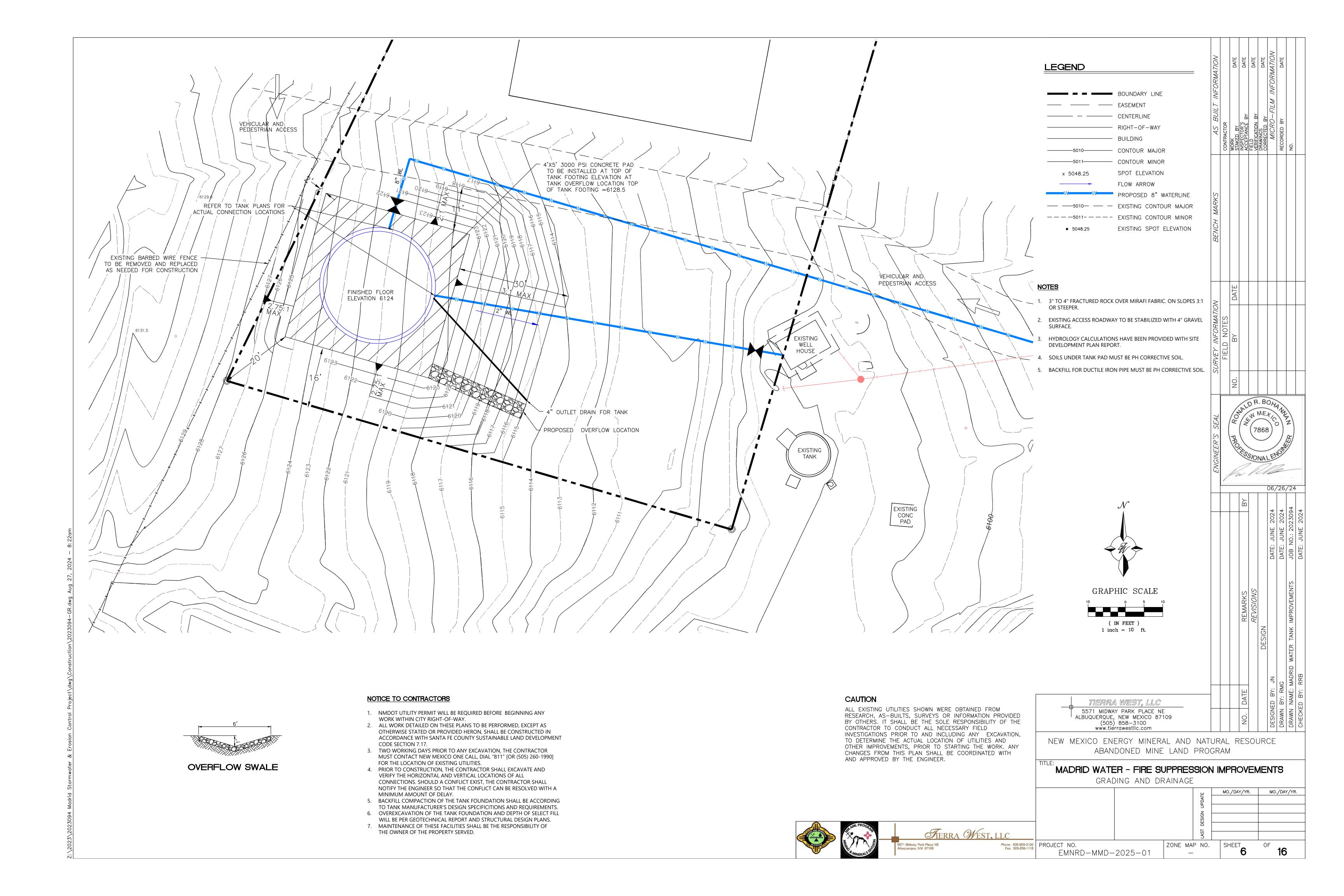


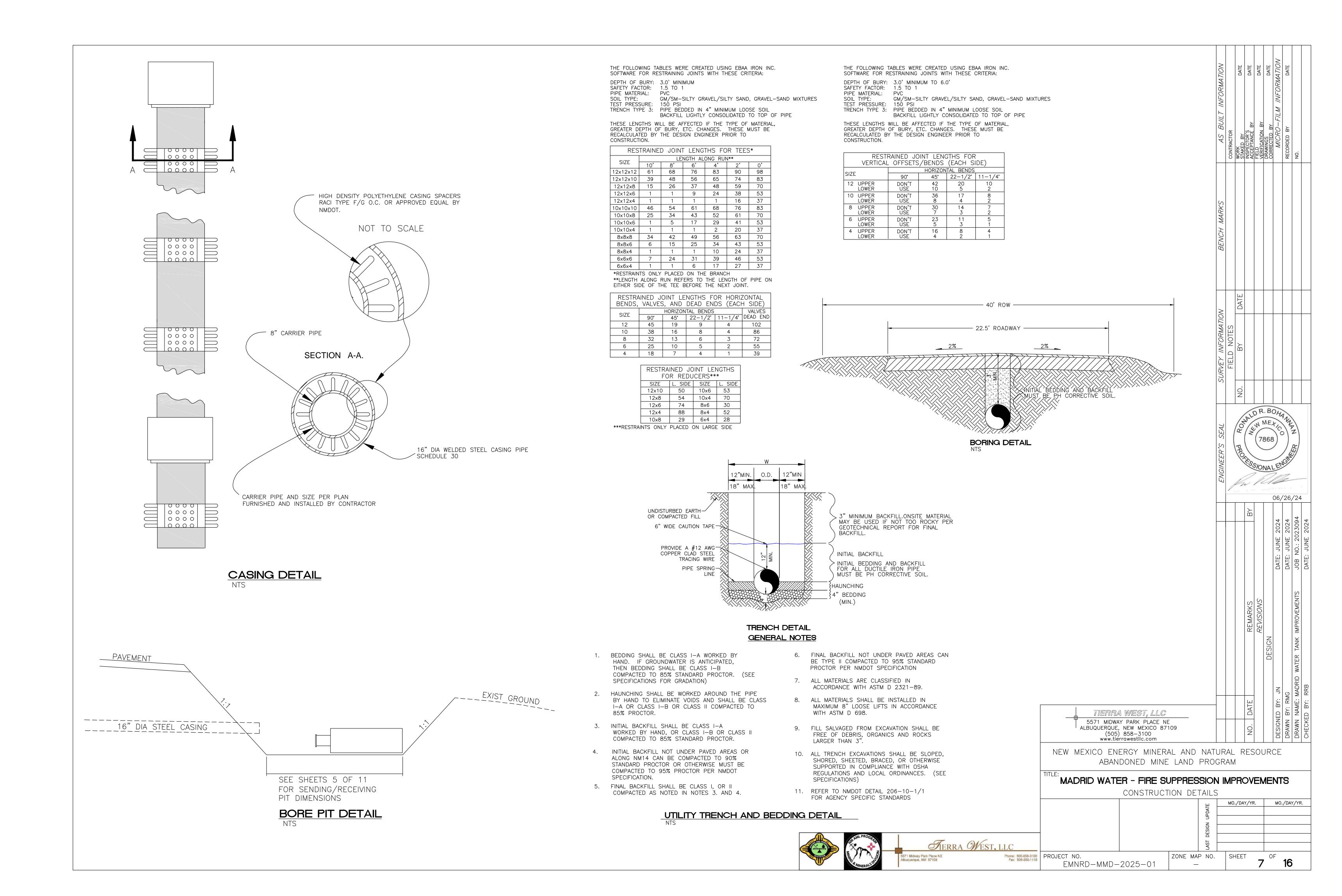
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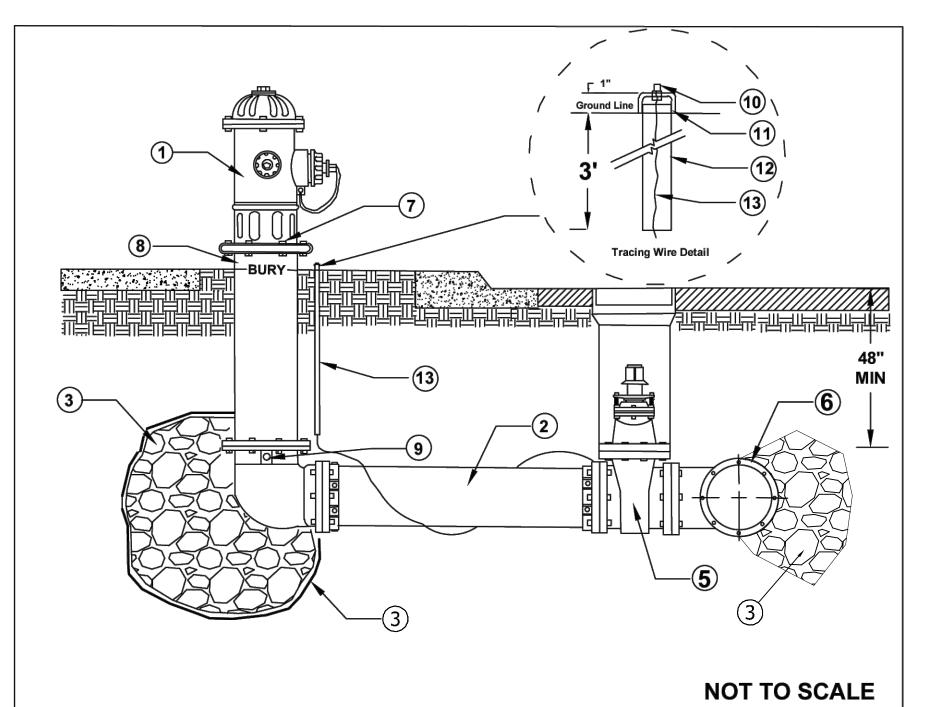












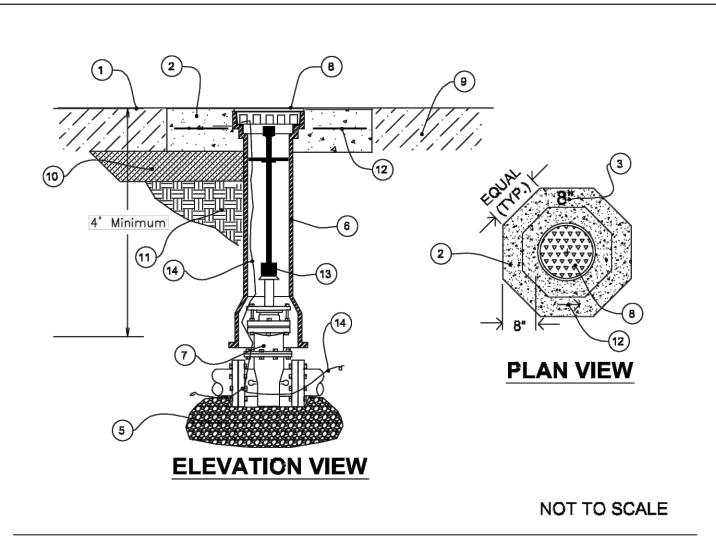
#	DESCRIPTION	#	DESCRIPTION
1	FIRE HYDRANT	8	2" MINIMUM 4" MAXIMUM GAP FROM FINISH GRADE TO BREAK AWAY JOINT
2	6" MINIMUM DUCTILE IRON PIPE*	9	DRAIN (DO NOT BLOCK)
3	CONCRETE THRUSTING BLOCK PER TABLE THIS SHEET	10	NUT AND BOLT WITH WIRE SECURED BY SILVER SOLDER
4		11	GLUED PVC CAP
5	6" MINIMUM GATE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

<b>5</b>	100	经
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SANTA FE COUNTY UTILITIES STANDARD DETAILS

**FIRE HYDRANT** 

DATE: 3/2021



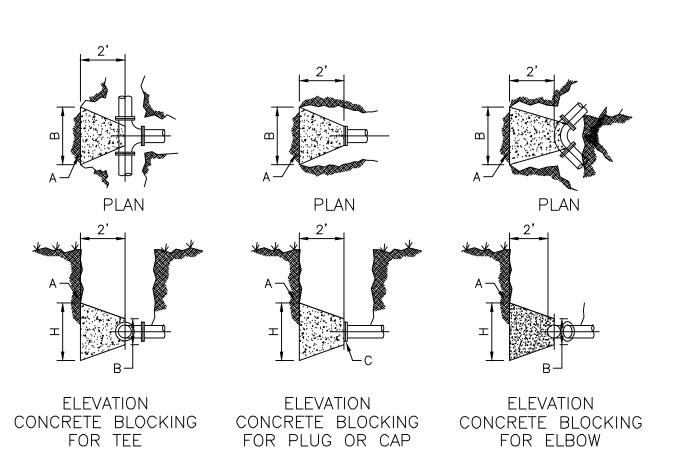
#	DESCRIPTION	#	DESCRIPTION
1	FINISH STREET GRADE	8	VALVE BOX LID
2	8" MIN DEPTH - 3000 PSI CONCRETE PAD	9	PAVEMENT
3	STAMPĘD LINĘ SIZĘ (2 SIZĘS IF RĘDUCING)	10	SUBGRADE
4	STAMPED ARROW INDICATING ISOLATION DIRECTION(?)	11	COMPACTED BACKFILL
5	98% COMPACTED BACK FILL 12" MINIMUM DEPTH	12	#4 REBAR
6	5-1/4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

⊕ #	SANTA FE COUNTY UTILITIES  STANDARD DETAILS	VALVE & VALVE BOX INSTALLATION	<b>DATE:</b> 12/17/2020

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

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

NTS PER COA STD DWG #2320









Phone: 505-858-3100 PROJECT NO. Fax: 505-858-1118

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

NEW MEXICO ENERGY MINERAL AND NATURAL RESOURCE ABANDONED MINE LAND PROGRAM

MADRID WATER - FIRE SUPPRESSION IMPROVEMENTS

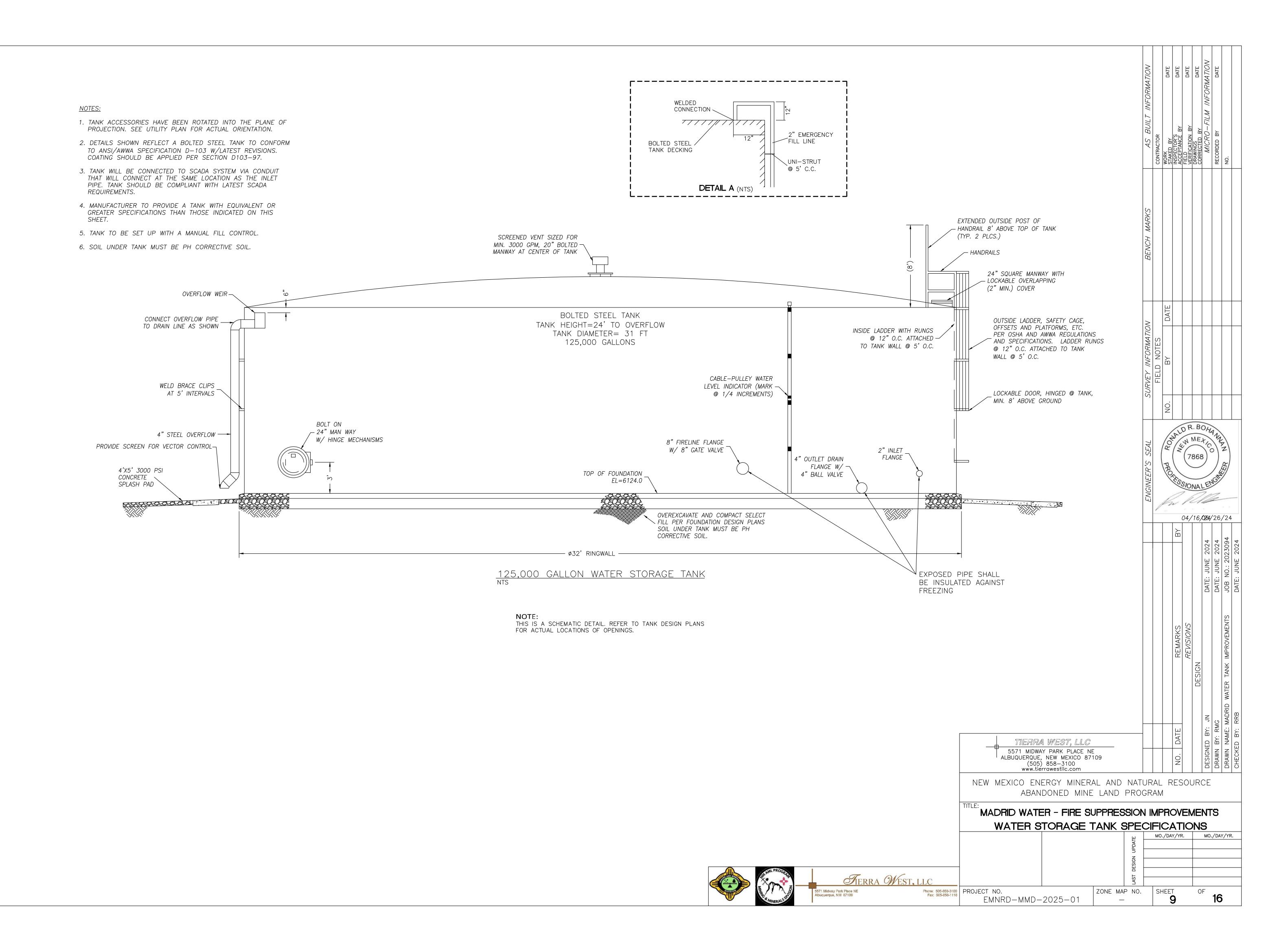
CONSTRUCTION DETAILS

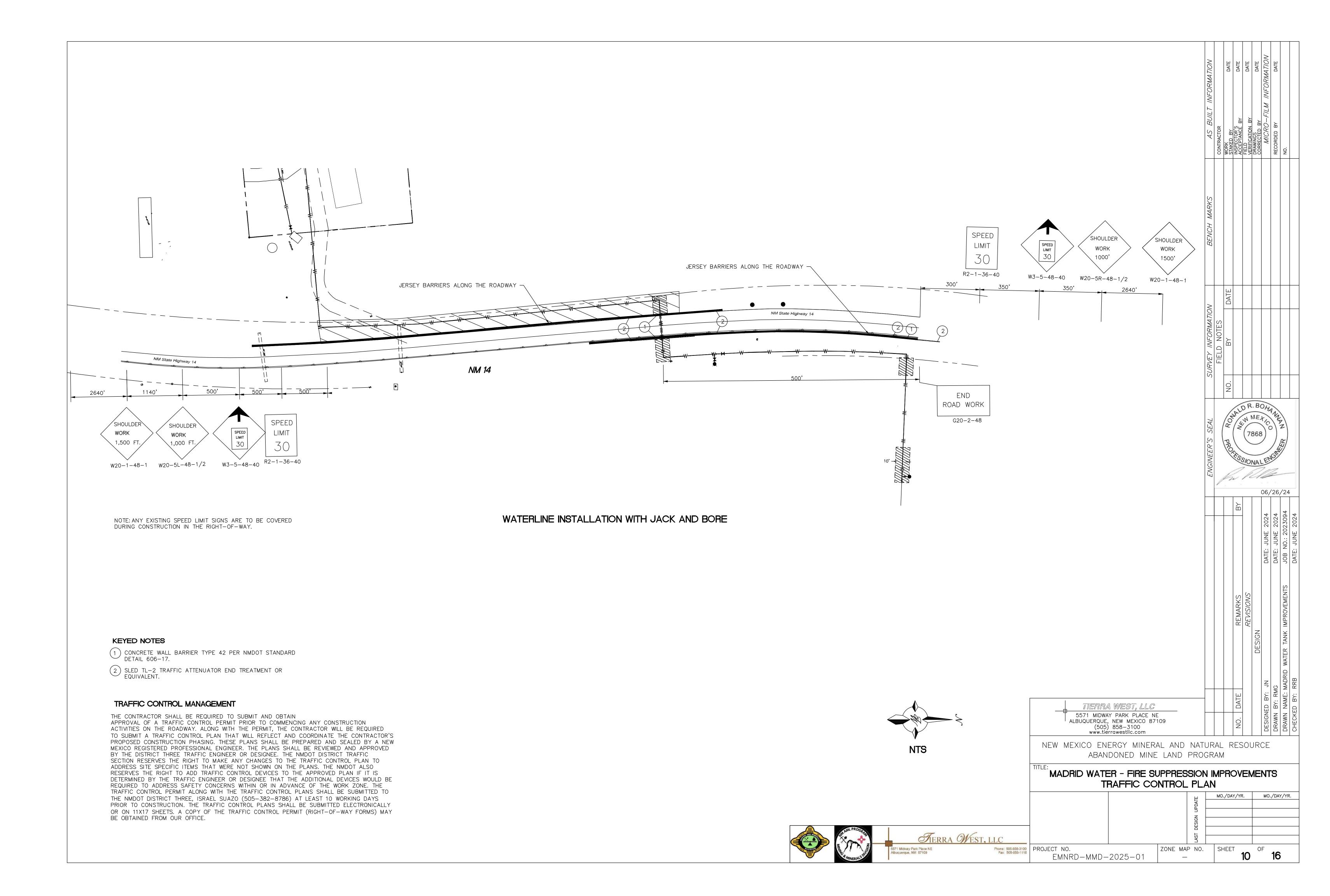
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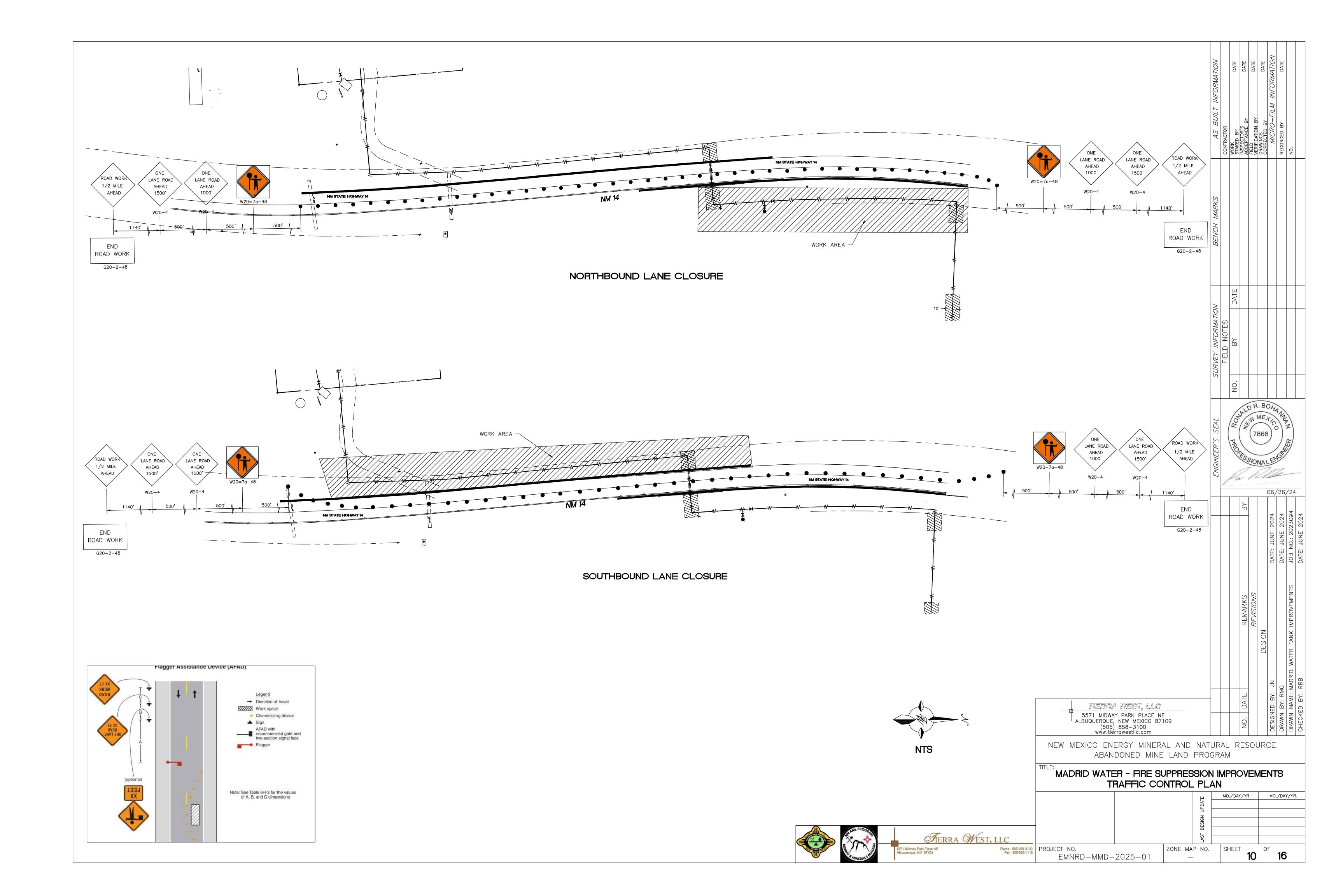
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06/26/24

MO./DAY/YR. MO./DAY/YR.







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SPEED LIMIT	TA	PER LENGT (FEET)	MAXIMUM DISTANCE BETWEEN	MINIMUM NUMBER OF	
(MPH)	10' LANE	11' LANE	12' LANE	DEVICES (FEET)	DEVICES REQUIRED
25	104	115	125	25	6
30	150	165	185	30	7
35	204	225	245	35	8
40	267	293	320	40	9
45	450	495	540	45	13
50	500	550	600	50	13
55	550	605	660	55	13

RECOMMENDED SIGN SPACING (D) FOR ADVANCE WARNING SIGN SERIES

SPEED MILES PER HOUR	MINIMUM DISTA BETWEEN SIGNS	NCE IN FEET FROM LAST SIGN TO TAPER
0-20	10 X SPEED LIMIT	10 X SPEED LIMIT
25-30	10 X SPEED LIMIT	10 X SPEED LIMIT
30-35	10 X SPEED LIMIT	10 X SPEED LIMIT
35-40	10 X SPEED LIMIT	10 X SPEED LIMIT
40-45	10 X SPEED LIMIT	10 X SPEED LIMIT
50-60	10 X SPEED LIMIT	10 X SPEED LIMIT

### LEGEND

WORK AREA

TRAFFIC SIGN & QUANTITY (SEE THIS SHEET FOR DESIGNATION)

BARRICADE - TYPE I, TYPE II, OR BARREL

BARRICADE – TYPE III

VERTICAL PANEL

WARNING SIGN

DISTANCE BETWEEN SIGNS-A DISTANCE MEASURED IN FEET EQUAL TO A VALUE OF TEN TIMES THE SPEED LIMIT OF THE STREET

FLAGMAN POSITION

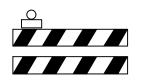
SPACING BETWEEN BARRICADES—A DISTANCE MEASURED IN FEET EQUAL TO THE SPEED LIMIT OF THE STREET

TAPER LENGTH — ON CHART

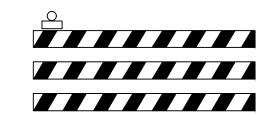
TANGENT LENGTH - IS EQUAL TO THE TAPER LENGTH FOR A GIVEN STREET

WARNING LIGHT (OPTIONAL)

7/X///X///X///X///X///X/// TYPE I BARRICADE



TYPE II BARRICADE



TYPE III BARRICADE

NOTE: FLASHING OR STEADY BURN WARNING LIGHTS SHOULD BE USED ON BARRICADES, PANELS, AND DRUMS AS NEEDED.

#### TAPER CRITERIA

TYPE OF TAPER TAPER LENGTH UPSTREAM TAPER: SEE CHART MERGING TAPER: L MINIMUM SHIFTING TAPER: 1/2 L MINIMUM SHOULDER TAPER: 1/2 L MINIMUM TWO-WAY TRAFFIC TAPER: 100 FEET MAXIMUM DOWNSTREAM TAPER: 100 FEET PER LANE

#### TAPER LENGTH COMPUTATION

<u>SPEED LIMIT</u>

45 MPH OR GRATER:  $L = W \times S$ 

45 MPH OR LESS:

 $L = \frac{WS^2}{60}$ 

L = TAPER LENGTH

W = WIDTH OF OFFSET IN FEET S = POSTED SPEED OR OFF-PEAK 85-PERCENTILE SPEED IN MPH

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

NEW MEXICO ENERGY MINERAL AND NATURAL RESOURCE ABANDONED MINE LAND PROGRAM

MADRID WATER - FIRE SUPPRESSION IMPROVEMENTS TRAFFIC CONTROL NOTES

06/26/24

MO./DAY/YR. ZONE MAP NO. SHEET OF EMNRD-MMD-2025-01

TWO LANES
CLOSED CONSTRUCTION LANE CLOSED LANE CLOSED LANE ROAD AHEAD AHEAD AHEAD AHEAD W20-5L 48"x48" -D-W20-4 48"x48" -G-W20-5 48"x48" -F-W20-1 48"x48" W4-2L 36"x36" 36"x36" —C— CENTER \ ROAD LANE CLOSED CLOSED AHEAD W20-7a 36"x36" -H-W12-1 24"x24" -M-₩6-3 48"×48" W20-5 48"x48" W20-3 48"x48" -N-W1-4L 30"x30" 30"×30" —K— ROAD CLOSED ROAD KEEP ROAD CLOSED DETOUR DETOUR THRU TRAFFIC CLOSED RIGHT  $\longrightarrow$ W20-3 48"x48" R11-2 48"x30" R11-4 60"x60" R3-2L 24"x24" M4 - 1024"x30" —Q— 30"x24" 30"x24" -P--S--U- $-\bigvee$ ACCESS NO PREPARED LEFT LANE RIGHT LANE END LEFT TWO LANES MUST ROAD WORK CLOSED TURN TURN RIGHT TURN LEFT G20-2 60"x24" R3-2 24"x30" R3-7L 30"x30" ACCESS INFORMATION 60"x24" 48"×48" W20-5 48"x48" -0--W--B-B--X--Z--A-A-60"x60"

NOTES

1. ALL ADVANCE WARNING SIGNS ARE TO BE DOUBLE INDICATED WHENEVER MEDIANS ARE

2. TRANSFORMATION FROM EXISTING SIGNALS

TO SPAN WIRE IS TO OCCUR AT OFF PEAK

3. THIS IS A STANDARD TRAFFIC CONTROL PLAN AND SOME TRAFFIC CONTROL SITUATIONS MAY BE SHOWN THAT ARE NOT REQUIRED ON THIS PARTICULAR PROJECT.

NOTE: ARROW DIRECTION

TO BE ADJUSTED AS

NEEDED.





#### TRAFFIC CONTROL GENERAL NOTES

- 1. Traffic Control: All Temporary Traffic Control (TTC) shall be placed in accordance with the NMDOT Standard Specifications for Highway and Bridge Construction (latest edition) and the Manual on Uniform Traffic Control Devices (latest edition) and current revisions with the following constraints:
- a. No substitutions will be allowed for channelization devices type drum unless otherwise noted in the plans.
- b. Temporary portable sign stands are an unnecessary hazard when not in use. Unused temporary sign stands shall be removed from the roadway. If temporary sign stands are staged for future use (approved by the project manager) they shall be folded up and stored away from the paved shoulder.
- c. Use of Type I or II barricades on roadways with speed limit greater than 40 mph is strictly prohibited.
- d. The work zone shall comply with, but not limited to, NCHRP 476 Guidelines for Design and Operation of Nighttime Traffic Control.
- 2. BOP and EOP Signing: BOP and EOP signing in accordance with Standard Drawing 702-03-1/1 shall be placed at the project limits prior to construction operations commencing and shall remain in place throughout the duration of the project or as directed by the project manager. Advance warning signs shall be placed at all side streets.
- 3. FLAGGING: Flagging shall be provided for safety per the plan or as directed by the project manager and shall conform to the MUTCD latest edition. The flaggers, applicable signs and other related items shall be considered incidental to the completion of the project and no separate measurement or payment will be made.
- a. All flaggers shall be certified and shall have their certification available for review at all times when on duty.
- b. Flagging stations shall conform to buffer lengths needed to ensure stopping sight distance is appropriate.
- c. Flagging operations shall adhere to NCHRP 476 Guidelines for Design and Operation of Nighttime Traffic Control; Flaggers shall wear high—visibility safety apparel that meets Performance Class 2 or 3.
- 4. INGRESS AND EGRESS: The contractor shall provide ingress and egress to local residences and businesses for the duration of the project. If access closure is required, the contractor shall request the closure through the project manager. Upon approval, the contractor shall coordinate such closure with the property owners and the project manager at least 48 hours in advance. All work associated with this shall be considered incidental to the completion of the project and no separate payment or measurement will be made.
- 5. PORTABLE CHANGEABLE MESSAGE SIGNS: The contractor shall supply Portable Changeable Message signs, which will be retained by the contractor. The message boards shall be utilized to convey messages, expected delays, and detours to motorists as required. Messages should be determined by the contractor and approved by the project manager. Two Weeks prior to start of construction: name locations, and number of message signs to be placed.
- 6. TRAFFIC CONTROL PLANS: This traffic control plan (TCP) represents a suggested method for traffic control during construction. Adjustments to the details of this TCP and requirements within the plan may be necessary due to construction activities, or as directed by the project manager. If the contractor elects to make any changes to the TCP or sequence of construction, the contractor shall submit four (4) 11" X 17" copies of the proposed TCP to the project manager at least two (2) weeks prior to implementation. The TCP shall conform to the current editions of the MUTCD, NMDOT Standard Specifications and AASHTO Roadside Design Guide. The TCP shall be in computer drafted format and shall be designed, stamped, and revised as necessary by a current New Mexico Licensed professional engineer and submitted to the District Traffic Engineer for approval. All costs associated with developing the TCP and any additional devices associated with the TCP shall be incidental to Item No. 618000, "Traffic Control Management," and no separate measurement or payment will be made, unless otherwise noted in the contract.
- 7N PUBLIC INFORMATION: The Contractor I TCP firm shall contact the District Public Information Officer, through the district office, to confirm the actual start dates of the construction and the contractor's schedule a minimum of 48 hours before any work listed in the TCP is performed.
- 8. REMOVAL OF CONSTRUCTION SIGNING: All temporary traffic control signs, sign posts and post bases installed with the construction project shall be REMOVED by the contractor at the completion of the project. Removal shall consist of complete extraction of the bases from the ground. This work shall be incidental to the completion of the project and no separate measurement or payment will be made.
- 9. CONFLICTING SIGNS: All Conflicting Signs within or in advance of the work zone shall be covered completely with an opaque non-light transmitting material so as not to damage the sign. The contractor is to use an approved method of covering existing signs so as not to damage/distort the sign sheeting or markings. The Contractor shall not place tape directly on the face of the sign. Failure to adhere to this requirement will result in the Contractor replacing the sign at no cost to the NMDOT.
- 10. TEMPORARY STRIPING: The use of black paint to cover existing lane lines or symbols is strictly prohibited. All temporary striping shall be placed before opening any work zone or portion of a work zone in accordance with the MUTCD and the approved traffic control plan. This work shall be included in Item No. 704100, "Removable Marking Tape" and no separate measurement or payment will be made, unless otherwise noted in the contract.
- 11. CONSTRUCTION SIGNING: All construction signing shall meet retroreflectivity requirements listed in section 702.2.1
- construction Signing of the NMDOT Standard Specifications.
- a. All construction signing on the interstate and on high speed (greater or equal to 45 MPH) multilane divided facilities shall be double indicated (left and right shoulders).
- b. All signs that are part of work zone that are in place for more than 3 days shall be placed on breakaway posts. If there are physical restrictions at the site that prohibit the sign from being placed on posts, the contractor shall notify the NMDOT Traffic section and obtain
- c. All warning and regulatory signs shall meet the following size requirements: Interstate: Warning sign 48"x48" Regulatory 48"x60"

  Non-Interstate: Warning sign 36"x36" Regulatory 36"x42"
- d. The following reflectivity material shall be used on all construction signing placed on NMDOT roadways.

SIGN	SIGN CODE	COLOR	LETTER SHEETING	BACKGROUND SHEETING TYPE VII., IX, XI		
AFPROACH SIGNS	W20-XX	BLK/FLUORESCENT ORANGE	******			
CHEVRONS	W1·8	BLK/FLUORESCENT ORANGE BLK/FLUORESCENT ORANGE BLK/FLUORESCENT ORANGE		TYPE VII , IX, XI		
CURVES	W1-2			TYPE VII , IX, XI		
REVERSE OURVE	W1-4			TYPE VII , IX, XI		
MERGE	W41	BLK/FLUORESCENT ORANGE		TYPE VII, IX, XI		
NO PASSING ZONE	W14-3	BLK/FLUORESCENT ORANGE	******	TYPE VII , IX, XI		
FLAGGER PADDLE	******	BLK/FLUORESCENT ORANGE on Side 1wth RED on Side 2	******	TYPE VII , IX , XI Type IV White		
ALL DEUMS		WHITE/ FLUORESCENT ORANGE	******	TYPE VII , IX, XI Type IV white		
All Other Const. Signs		BLK/FLUORESCENT ORANGE		TYPE VII., IX, XI		

- 12. REMOVAL OF TEMPORARY STRIPING: All relevant temporary striping shall be removed upon completion of each phase of construction. The contractor is to ensure that there is no conflicting striping through the work zone or through detours. This work shall be included in Item No. 518000, "Traffic Control Management," and no separate measurement or payment will be made, unless otherwise noted in the contract.
- 13. SATISFACTORY WORKING CONDITION: All traffic control devices used on this project shall be in satisfactory working condition and shall function equivalent to new equipment in accordance with the MUTCD (latest edition). Traffic Control work zone shall comply with requirements of FHWA 23CFR 630 Subpart K for traffic control devices. Al the beginning of the project 100% of signs/devices shall be in acceptable condition (new or like new). After 2 weeks at no time shall less than 75% of devices be in acceptable condition. All traffic devices shall be kept clean throughout the duration of the project. Any sign that is tagged by graffiti shall be cleaned (as long as ii does not affect the reflective sheeting) within 24 hours or removed and replaced.
- 14. TRAFFIC CONTROL FIELD ADJUSTMENTS: Location of device spacing shall be field verified to account for existing roadway features which may obstruc1 placement and/or view of devices. Any changes to the traffic control plan should be approved by the District Traffic Engineer or his/her designee. All field adjustments of signs should be approved by the District Traffic Engineer. This work shall be considered incidental to Item No. 618000 "Traffic Control Management" and no additional measurement or payment will be made, unless noted in the
- 15. RESETTING OF WORK ZONE: Reselling of work zone including, but not limited to drums and signs, shall be considered incidental to Item No. 618000 "Traffic Control Management" and no additional measurement or payment will be made, unless otherwise noted in the contract.

  16. MOBILE TRAFFIC SIGNALS: Portable traffic signals shall be provided by the contractor to control traffic during construction activity that requires one lane operations on a 2—way facility and other operations as indicated in the plan. The portable traffic signal shall be listed on the NMDOT Approved Product List and shall be provided with an emergency response cellular GPS system, optical and audible emergency vehicle preemption, microwave detection, and be capable of conflict monitoring through the traffic control zone. The portable traffic signals shall be installed and operated according to manufacturer's recommendations. All set up and removal costs shall be considered incidental to Item No. 618000 "Traffic Control Management" and no additional measurement or payment will be made, unless otherwise noted in the contract.
- 17. (CWB) within a construction work zone, the flare rate shall be done in accordance with the rates shown in the table below: (NMDOT Standard Drawing 606-20-5/5)

Roadway Speed Limit	Ninimum Taper Flare Rate	Desirable Taper
Less than 45 MPH	8:1	18:1
Between 45 MPH and 56 MPH	10:1	24:1
Greater than 55 MPH	15:1	30:1

- a. When temporary wall barrier is placed in a construction work zone, a 5' clear area is required between the CWB and the work zone to accommodate barrier deflection. When a 5' clear area is not attainable. consideration shall be given to anchoring the CWB to the pavement surface.
- b. Temporary CWB shall be provided with reflective barrier delineators as indicated in NMDOT standard drawing 606-21-1/1.
- 18. CRASH ATTENUATORS: The crash cushion attenuators shall be designed as per the District Traffic Engineer's recommendations. The District may elect to either utilize the pre—construction posted speed, or the 85% speed in the layout of the crash cushion attenuators within the work zone.
- 19. DROP OFF POLICY: In the areas of pavement operations or other activities within the traveled way and adjacent to the existing traveled lane, the contractor shall assure that no pavement drop—offs are left exposed during
- non-working hours. The contractor shall initiate corrective means as per "the New Mexico Department of Transportation Pavement Drop-off Guideline" to achieve a minimum 6:1 slope between traveled lanes and a minimum 3:1 slope adjacent to the existing traveled lane with two 11 foot driving lanes as shown in the detail below.



- 20. Lane Closures: The Contractor/TCP firm shall not place a lane closure taper along a horizontal curve. The taper shall be placed in advance of the horizontal curve so that it is visible to all oncoming traffic. On crest vertical curves, the Contractor/TCP firm shall place lane closures in advance of, or at the beginning of the curve to enhance visibility of the lane closure to oncomina traffic.
- 21. Sequential Arrow Display: Placement of the sequential arrow shall be at or near the beginning of the lane closure taper. In areas of insufficient pavement width, the sequential arrow may be placed within the taper, but not to exceed ½ the taper length. In all cases, the sequential arrow shall be placed behind the channelization devices. The shoulder shall be closed in advance of the merging taper to direct vehicular traffic to remain within the traveled way.
- 22. ADDITIONAL SIGNS: "BUMP", "LOOSE GRAVEL", "LANE DROP-OFF SIGN" sign placement: The contractor shall place WB-1 sign ("BUMP" BIFO), W8-7 sign ("LOOSE GRAVEL" B/FO) and/or W8-17 signs ("SHOULDER DROP-OFF" BIFO) in advance of bridge approaches or other locations during cold milling and overlay operations as needed or as directed by the project manager.
- 23. CLEAR ZONE: All stationary objects within clear zone shall be properly shielded and outlined with drums mounted with Type "A" warning lights. Use of vertically mounted retro—reflective material in lieu of a Type A warning light is strictly prohibited.
- a. Equipment, materials, or vehicles stored within Right —of—way (ROW) shall be outside of clear zone (based on existing posted speed).
- a: Equipment, material or vehicles stored within clear zone shall be property shielded.
  b. Materials, work activities, equipment, and vehicles shall not be stored within the
- established buffer space of the project work zone.

  c. All construction equipment, vehicles and materials shall remain behind traffic control devices.
- 24. TRAFFIC CONTROL MANAGEMENT: The contractor or the traffic Control Subcontractor shall provide a Traffic Control Supervisor on site during working hours for response within 1 hour to traffic control issues/concerns.

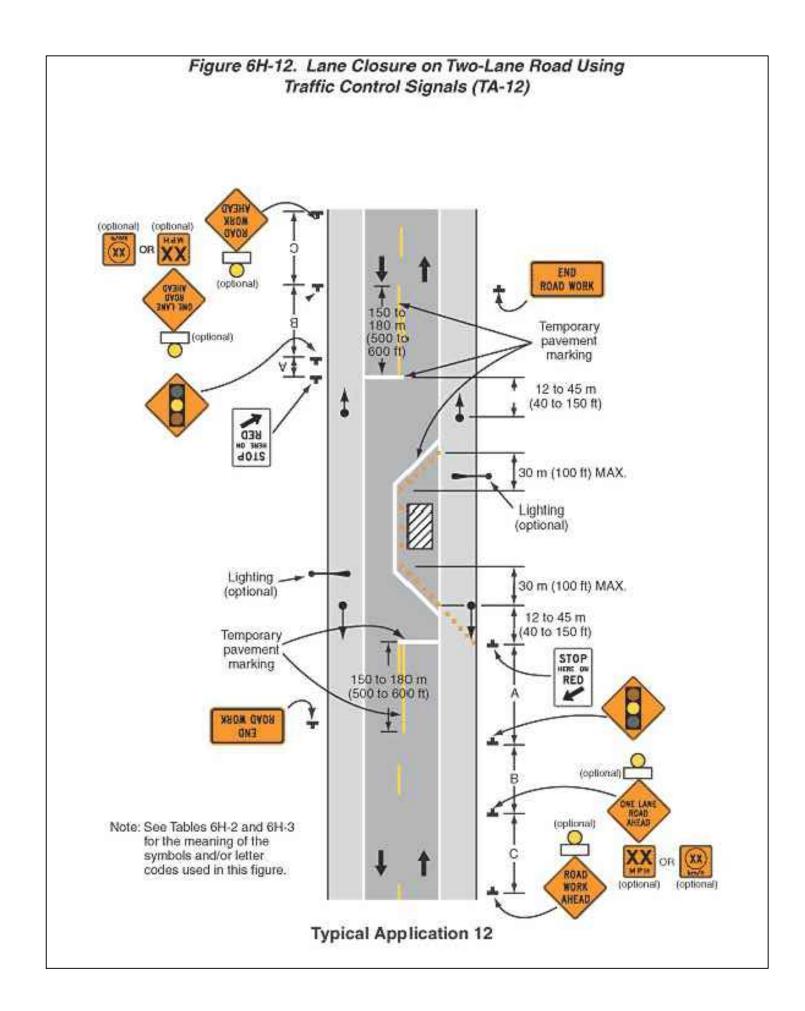
- 25. INCIDENT MANAGEMENT: Contractor is required to comply with requirements of FHWA CFR 630 Subpart J for Work Zone Safety and Mobility which shall include an Incident Management Plan to be utilized for the entire duration of the project. The Incident Management Plan shall contain a method to address traffic flow through the work zone during incidents. The Incident Management Plan must be reviewed and approved by the District Traffic Engineer. The plan shall contain the following as a minimum:
- a. Contacts for the contractor, local enforcement, safety agencies, municipal agencies, public information officer and NMDOT
- b. Steps to be followed during incidents
- c. Method of recording and reporting incidents

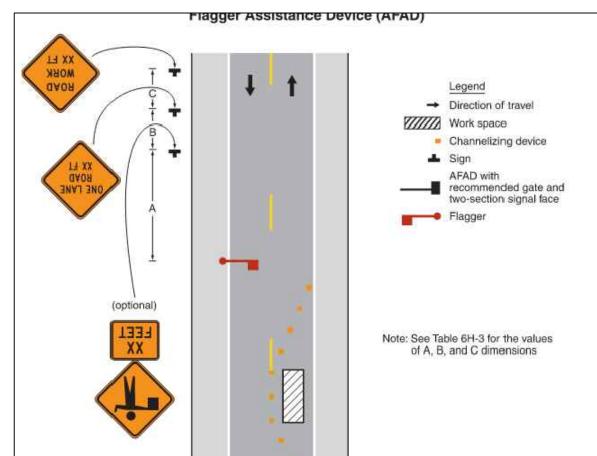
26. LIST OF INCIDENTALS - No Additional Payment

LIST OF INCIDENTALS for Temporary Traffic Control. MINTENANCE OF TEMPOREARY PAVEMENT MARKINGS FOR PROJECT DURATION

LIST OF INCIDENTALS for Temporary Traffic Control

A. MAINTENANCE OF TEMPORARY PAVEMENT MARKINGS FOR PROJECT DURATION





TIERRA WEST, LLC

5571 MIDWAY PARK PLACE NE
ALBUQUERQUE, NEW MEXICO 87109
(505) 858-3100
www.tierrawestllc.com

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ABANDONED MINE LAND PROGRAM

# MADRID WATER - FIRE SUPPRESSION IMPROVEMENTS TRAFFIC CONTROL NOTES



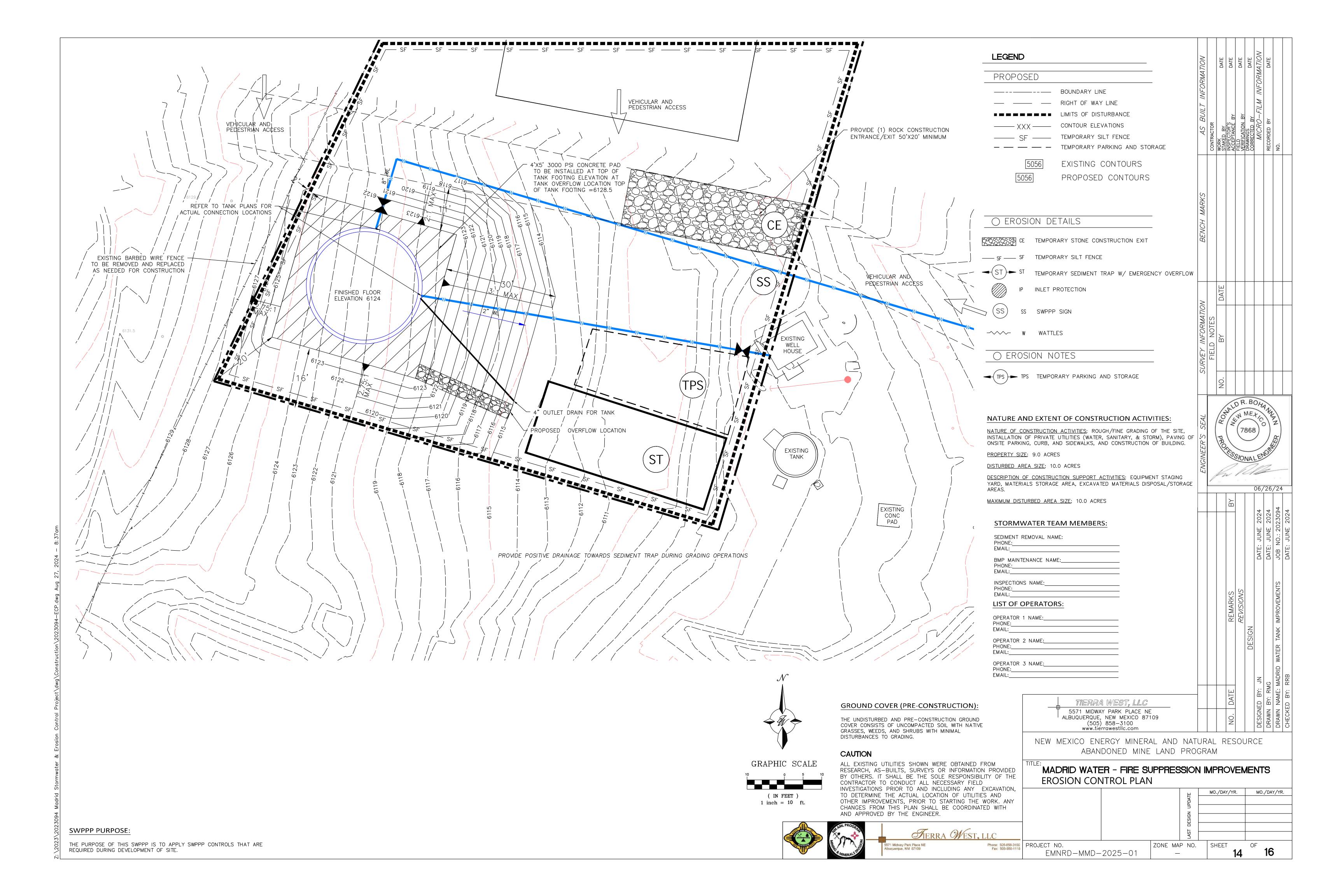
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EMNRD-MMD-2025-01 ZONE MAP NO. SHEET - 12





#### ESC PLAN STANDARD NOTES:

- 1. ALL EROSION AND SEDIMENT CONTROL (ESC) WORK ON THESE PLANS, EXCEPT AS OTHERWISE STATED OR PROVIDED HEREON SHALL BE PERMITTED, CONSTRUCTED, INSPECTED, AND MAINTAINED IN ACCORDANCE WITH: a. THE CITY ORDINANCE § 14-5-2-11, THE ESC ORDINANCE,
  - b. THE EPA'S 2022 CONSTRUCTION GENERAL PERMIT (CGP), AND
  - c. THE CITY OF ALBUQUERQUE CONSTRUCTION BMP MANUAL.
- 2. ALL BMP'S MUST BE INSTALLED PRIOR TO BEGINNING ANY EARTH MOVING ACTIVITIES EXCEPT AS SPECIFIED HEREON IN THE PHASING PLAN. CONSTRUCTION OF EARTHEN BMP'S SUCH AS SEDIMENT TRAPS, SEDIMENT BASINS, AND DIVERSION BERMS SHALL BE COMPLETED AND INSPECTED PRIOR TO ANY OTHER CONSTRUCTION OR EARTHWORK. SELF-INSPECTION IS REQUIRED AFTER INSTALLATION OF THE BMPS AND PRIOR TO BEGINNING CONSTRUCTION
- 3. SELF-INSPECTIONS IN ACCORDANCE WITH CITY ORDINANCE § 14-5-2-11(C)(1), "AT A MINIMUM A ROUTINE SELF-INSPECTION IS REQUIRED TO REVIEW THE PROJECT FOR COMPLIANCE WITH THE CONSTRUCTION GENERAL PERMIT ONCE EVERY 14 DAYS AND AFTER ANY PRECIPITATION EVENT OF 1/4 INCH OR GREATER UNTIL THE SITE CONSTRUCTION HAS BEEN COMPLETED AND THE SITE DETERMINED AS STABILIZED BY THE CITY. REPORTS OF THESE INSPECTIONS SHALL BE KEPT BY THE PERSON OR ENTITY AUTHORIZED TO DIRECT THE CONSTRUCTION ACTIVITIES ON THE SITE AND MADE AVAILABLE UPON REQUEST.
- 4. CORRECTIVE ACTION REPORTS MUST BE KEPT BY THE PERSON OR ENTITY AUTHORIZED TO DIRECT THE CONSTRUCTION ACTIVITIES ON THE SITE AND MADE AVAILABLE UPON REQUEST.
- 5. FINAL STABILIZATION AND NOTICE OF TERMINATION (NOT) IN ACCORDANCE WITH CITY ORDINANCE § 14-5-2-11(C)(1), SELF-INSPECTIONS MUST CONTINUE UNTIL THE SITE IS 'DETERMINED AS STABILIZED BY THE CITY." THE PROPERTY OWNER/OPERATOR IS RESPONSIBLE FOR DETERMINING WHEN THE "CONDITIONS FOR TERMINATING CGP COVERAGE" PER CGP PART 8.2 ARE SATISFIED AND THEN FOR FILING THEIR NOTICE OF TERMINATION (NOT) WITH THE EPA. EACH OPERATOR MAY TERMINATE CGP COVERAGE ONLY IF ONE OR MORE OF THE CONDITIONS IN PART 8.2.1, 8.2.2, OR 8.2.3 HAS OCCURRED. AFTER FILING THE NOT WITH THE EPA, THE PROPERTY OWNER IS RESPONSIBLE FOR REQUESTING A DETERMINATION OF STABILIZATION FROM THE CITY.
- 6. WHEN DOING WORK IN THE CITY RIGHT-OF-WAY (E.G. SIDEWALK, DRIVE PADS, UTILITIES, ETC.) PREVENT DIRT FROM GETTING INTO THE STREET. IF DIRT IS PRESENT IN THE STREET, THE STREET SHOULD BE SWEPT DAILY OR PRIOR TO A RAIN EVENT OR CONTRACTOR INDUCED WATER EVENT (E.G. CURB CUT OR WATER TEST).
- 7. WHEN INSTALLING UTILITIES BEHIND THE CURB, THE EXCAVATED DIRT SHOULD NOT BE PLACED IN THE STREET.
- 8. WHEN CUTTING THE STREET FOR UTILITIES THE DIRT SHALL BE PLACED ON THE UPHILL SIDE OF THE STREET CUT AND THE AREA SWEPT AFTER THE WORK IS COMPLETE. A WATTLE OR MULCH SOCK MAY BE PLACED AT THE TOE OF THE EXCAVATED DIRT PILE IF SITE CONSTRAINTS DO NOT ALLOW PLACING THE EXCAVATED DIRT ON THE UPHILL SIDE OF THE STREET CUT.
- 9. ESC PLANS MUST SHOW LONGITUDINAL STREET SLOPE AND STREET NAMES. ON STREETS WHERE THE LONGITUDINAL SLOPE IS STEEPER THAN 2.5%, WATTLES/MULCH SOCKS OR J-HOOD SILT FENCE SHALL BE SHOWN IN THE FRONT YARD SWALE OR ON THE SIDE OF THE

### **GENERAL EROSION NOTES:**

- A. THE STORMWATER POLLUTION PREVENTION PLAN (SWPPP) IS COMPRISED OF THE SWPPP BOOK, THE 2017 GENERAL CONSTRUCTION PERMIT, THIS DRAWING ("TEMPORARY EROSION CONTROL AND SEDIMENTATION PLAN"), STANDARD DETAILS ("TEMPORARY EROSION CONTROL AND SEDIMENTATION DETAILS"), EPA NOTICE OF INTENT PERMIT AND ALL SUBSEQUENT REPORTS, CORRECTIVE ACTIONS AND EROSION CONTROL RELATED DOCUMENTS.
- B. ALL OPERATORS AS DESIGNATED, CONTRACTORS AND SUBCONTRACTORS INVOLVED WITH SITE ACTIVITIES RELATED TO STORM WATER POLLUTION PREVENTION SHALL REVIEW A COPY OF THE STORM WATER POLLUTION PREVENTION PLAN (SWPPP), THE 2017 CONSTRUCTION GENERAL PERMIT, THE NATIONAL POLLUTANT DISCHARGE ELIMINATION SYSTEM (NPDES), THE CLEAN WATER ACT OF 1972 AND BECOME FAMILIAR WITH THEIR CONTENTS.
- C. THE OPERATOR IN CONTROL OF DAILY SITE ACTIVITIES SHALL IMPLEMENT BEST MANAGEMENT PRACTICES AS REQUIRED BY THE SWPPP. ADDITIONAL BEST MANAGEMENT PRACTICES SHALL BE IMPLEMENTED AS DICTATED BY CONDITIONS THAT MAY OCCUR AT NO ADDITIONAL COST TO PROJECT OWNER THROUGHOUT ALL PHASES OF CONSTRUCTION.
- D. BEST MANAGEMENT PRACTICES (BMP'S) AND CONTROLS SHALL CONFORM TO ALL FEDERAL, STATE, OR LOCAL REQUIREMENTS OR MANUAL OF PRACTICE, AS APPLÌCABLÉ. OPERATOR WITH CONTROL OF DAILY SITE ACTIVITIÉS SHALL IMPLEMENT ADDITIONAL CONTROLS AS DIRECTED BY PERMITTING AGENCY, LOCAL JURISDICTIONAL AUTHORITY OR SWPPP COMPLIANCE INSPECTOR
- E. THE TEMPORARY EROSION CONTROL AND SEDIMENTATION PLAN IS A WORKING DOCUMENT AND IS REQUIRED TO BE UPDATED WITHIN 24 HOURS OF ANY CHANGES WHEN BMP'S ARE REPAIRED, RELOCATED OR REMOVED BY NOTING ON THE PLAN THE AREAS AND DATES OF THE REPAIRS, RELOCATIONS OR REMOVALS. AN ACTIVE COPY OF THE PLAN SHALL BE POSTED IN THE JOB SITE TRAILER ONSITE AND MUST BE MAINTAINED CURRENT AT ALL TIMES.
- F. CONTRACTOR SHALL MINIMIZE CLEARING AND EARTH DISTURBANCE TO THE MAXIMUM ACREAGE AS REQUIRED BY THE EPA CONSTRUCTION GENERAL PERMIT.
- G. CONTRACTOR SHALL DENOTE ON THIS PLAN, THE LOCATION OF TEMPORARY PARKING, STORAGE, PORTABLE SANITARY FACILITIES. OFFICE TRAILERS, AND ALL SUPPORT AREAS. RELOCATIONS OF EACH SHALL ALSO BE DOCUMENTED AS THEY OCCUR.
- H. ALL WASH OUT WATER USED FOR CONCRETE, MASONRY, PAINT AND OTHER MATERIALS SHALL HAVE ADEQUATE SIGNAGE WITH PROPER CONTAINMENT AND DISPOSED OF PROPERLY WHEN CAPACITY REACHES 50% OR PER VENDOR RECOMMENDATIONS. VENDORS AND TRADESMEN SHALL BE INFORMED OF THE REQUIREMENTS TO USE THE WASH OUT.
- I. A SPILL KIT SHALL BE READILY AVAILABLE TO CONTAIN AND CLEAN-UP FUEL OR CHEMICAL SPILLS AND LEAKS. A DISCHARGE OF ANY MATERIAL IN A QUANTITY THAT MAY WITHIN REASONABLE PROBABILITY CAUSE, INJURE OR BE DETRIMENTAL TO HUMAN HEALTH, ANIMAL OR PLANT LIFE, OR PROPERTY; OR INTERFERE WITH THE PUBLIC WELFARE MUST BE REPORTED TO THE NEW MEXICO ENVIRONMENTAL DEPARTMENT HOTLINE AT (505) 827-9329 FOR EMERGENCIES OR FOR NON EMERGENCIES AT (866)-428-6535.
- J. IF UNSURE IF THE SPILL IS OF A SIGNIFICANT QUANTITY, THE SPILL SHOULD BE REPORTED TO THE HOTLINE AND INFORMATION PROVIDED WITH DETAILS OF THE SPILL FOR FURTHER ACTIONS.
- K. DUST DURING CONSTRUCTION OPERATIONS SHALL BE FREQUENTLY CONTROLLED BY WATER SUPPRESSION METHODS ONLY, EARTH DISTURBING OPERATIONS SHALL CEASE IF HIGH WINDS ABOVE 35 MPH ARE PRESENT. THE USE OF MOTOR OILS AND OTHER PETROLEUM BASED OR TOXIC LIQUIDS IS STRICTLY PROHIBITED. OTHER CHEMICALS USED FOR DUST SUPPRESSION MUST BE APPROVED BY THE EPA PRIOR TO THEIR USE.
- L. RUBBISH, TRASH, GARBAGE, LITTER, OR OTHER SUCH MATERIALS SHALL BE DEPOSITED INTO SEALED. COVERED. LEAK PROOF CONTAINERS. CONTAINERS SHALL BE DISPOSED OF PROPERLY WHEN CAPACITY IS REACHED. MATERIALS SHALL BE PREVENTED FROM LEAVING THE PREMISES THROUGH THE ACTION OF WIND OR STORMWATER.
- M. ALL STORM WATER POLLUTION PREVENTION MEASURES AND CONTROLS PRESENTED ON THIS PLAN, AND IN THE STORM WATER POLLUTION PREVENTION PLAN, SHALL BE INITIATED PER THE SEQUENCE OF CONSTRUCTION AS NOTED.
- N. DISTURBED PORTIONS OF THE SITE WHERE CONSTRUCTION ACTIVITY HAS BEEN TEMPORARILY SUSPENDED FOR 14 DAYS, SHALL HAVE TEMPORARILY STABILIZATION IN PLACE NO LATER THAN 14 DAYS FROM THE LAST DATE OF CONSTRUCTION ACTIVITY
- O. TEMPORARY COVER AND FINAL STABILIZATION (PART 2.2.12 (a) AND (b) RESPECTIVELY ARE TO BE PER COA STD SPEC 1012 NATIVE SEED WITH HYDROMULCH AND AGGREGATE MULCH (2-4") RESPECTIVELY.
- P. IF THE ACTION OF VEHICLES OR EQUIPMENTS TRAVELING OVER THE CONSTRUCTION ENTRANCES IS NOT SUFFICIENT TO REMOVE THE MAJORITY OF DIRT OR MUD FROM LEAVING THE SITE. THEN THE LENGTH OF THE EXIT SHOULD BE EXTENDED TO PROVIDE ADDITIONAL TIRE ROTATIONS, LARGER ROCK MAY BE USED TO CREATE A SUFFICIENT JARRING MOTION OR INSTALL A TIRE WASH OFF WITH A SEDIMENT TRAP BEFORE LEAVING THE SITE.
- Q. ALL MATERIALS SPILLED, DROPPED, WASHED, OR TRACKED FROM VEHICLES ONTO ROADWAYS OR INTO STORM DRAINS MUST BE REMOVED IMMEDIATELY.
- R. THE OPERATOR IN CHARGE OF THE DAILY SITES ACTIVITIES WILL BE RESPONSIBLE FOR REMOVING SEDIMENT OR SOILS ACCUMULATING MORE THAN 50% OF THE DESIGN CAPACITY IN DETENTION PONDS, SILT FENCING OR OTHER SIMILAR EROSION
- S. ON-SITE & OFFSITE SOIL STOCKPILE AND BORROW AREAS SHALL BE PROTECTED FROM EROSION AND SEDIMENTATION THROUGH IMPLEMENTATION OF BEST MANAGEMENT PRACTICES, AS REQUIRED PER THE CONSTRUCTION GENERAL PERMIT. STOCKPILE AND BORROW AREA LOCATIONS SHALL BE NOTED ON THE ESC PLAN AND PERMITTED IN ACCORDANCE WITH LOCAL AUTHORITIES HAVING
- T. SLOPES SHALL BE LEFT WITH CROSS SLOPE GRADING PATTERN AND IN A ROUGHENED CONDITION DURING THE GRADING PHASE TO REDUCE RUNOFF VELOCITIES AND EROSION RILLS. EXCESSIVE SLOPES MAY REQUIRE ADDITIONAL INDUSTRY STANDARD CONTROLS TO
- U. DUE TO THE GRADE CHANGES DURING THE DEVELOPMENT OF THE PROJECT, THE OPERATOR IN CONTROL OF THE SITE'S DAILY ACTIVITIES SHALL BE RESPONSIBLE FOR ADJUSTING AND MAINTAINING ALL EROSION CONTROL TO PREVENT EROSION.
- V. ALL DISTURBED AREAS SHALL BE SUPPRESSED BY WATER AND ALL CONTROLS LEFT IN GOOD WORKING CONDITION AT THE END OF EACH WORKING DAY, THIS INCLUDES REPLACEMENT OF SILT FENCING AND/OR OTHER SURFACE CONTROLS, TRACK OUT SWEPT CLEAN, BACKFILL OF OPEN TRENCHES AND ANY OTHER EROSION CONTROLS.

#### BMP MAINTENANCE

ALL MEASURES STATED IN THIS EROSION AND SEDIMENT CONTROL PLAN, AND IN THE STORM WATER POLLUTION PREVENTION PLAN, SHALL BE MAINTAINED IN FULLY FUNCTIONAL CONDITION UNTIL NO LONGER REQUIRED FOR A COMPLETED PHASE OF WORK OR UNTIL FINAL STABILIZATION OF THE SITE IS ACHIEVED. ALL EROSION AND SEDIMENTATION CONTROL MEASURES SHALL BE INSPECTED AT THE END OF THE WORKDAY BY A QUAILIFIED MEMBER OF THE SWPPP COMPLIANCE TEAM. THE OPERATOR WITH CONTROL OF THE SITES DAILY ACTIVITIES IS RESPONSIBLE TO MAINTAIN, CLEAN AND REPAIR EROSION CONTROLS IN ACCORDANCE WITH THE FOLLOWING:

- 1. INLET PROTECTION DEVICES AND BARRIERS SHALL BE REPAIRED OR REPLACED, IF THEY SHOW SIGNS OF UNDERMINING OR DETERIORATION. SEDIMENT SHALL BE REMOVED TO INSURE PROPER FLOWS. INLET PROTECTION TYPES MAY NEED TO BE MODIFIED DURING
- 2. ALL SEEDED AREAS SHALL BE CHECKED REGULARLY TO SEE THAT A GOOD STAND OF VEGETATION IS MAINTAINED. AREAS SHOULD BE FERTILIZED, WATERED, AND RE-SEEDED
- 3. SILT FENCES, WADDLES OR OTHER CONTROLS SHALL BE REPLACED OR REPAIRED TO PROPER FUNCTIONING CONDITION, IF DAMAGED. SEDIMENT AND SOIL SHALL BE REMOVED WHEN REACHES ONE-HALF THE HEIGHT OF THE CONTROL.
- 4. THE CONSTRUCTION EXITS SHALL BE MAINTAINED IN A CONDITION WHICH WILL PREVENT TRACKING OF SEDIMENT ONTO PUBLIC OR PRIVATE ROADWAYS. THIS MAY REQUIRE PERIODIC TOP DRESSING, EXTENDING OR OTHER MODIFICATIONS TO THE CONSTRUCTION EXITS AS CONDITIONS DEMAND. SITE TRAFFIC SHOULD BE LIMITED TO THE CONTROLLED
- 5. SEDIMENTATION BASINS SHALL BE MAINTAINED IN OPERATIONAL CONDITIONS AT ALL TIMES. SEDIMENT SHALL BE REMOVED FROM SEDIMENT BASINS OR TRAPS WHEN THE DESIGN CAPACITY HAS BEEN REDUCED BY 50%.
- 6. REFERENCE THE SWPPP BOOK FOR ALL EROSION CONTROL MAINTENANCE PROCEDURES AND FREQUENCIES. CONSULT THE SWPPP PREPARER WITH ANY QUESTIONS REGARDING THIS SWPPP AND ITS REQUIREMENTS.

#### EROSION CONTROL NOTES:

- 1. CONTRACTOR IS RESPONSIBLE FOR OBTAINING A TOPSOIL DISTURBANCE PERMIT FROM THE LOCAL JURISDICTIONAL AUTHORITY PRIOR TO BEGINNING WORK.
- 2. THE OPERATOR WITH CONTROL OF THE DAILY SITES ACTIVITIES IS RESPONSIBLE FOR MAINTAINING RUN-OFF and RUN ON OF SITE DURING CONSTRUCTION.
- 3. THE OPERATOR WITH CONTROL OF THE DAILY SITES ACTIVITIES IS RESPONSIBLE FOR CLEANING ALL SEDIMENT THAT GETS INTO EXISTING RIGHT-OF-WAY. REPAIR OF DAMAGED FACILITIES AND CLEANUP OF SEDIMENT ACCUMULATIONS ON ADJACENT PROPERTIES AND IN PUBLIC FACILITIES IS THE RESPONSIBILITY OF THE CONTRACTOR.
- 4. ALL EXPOSED EARTH SURFACES MUST HAVE APPROPRIATE CONTROLS TO PROTECT FROM WIND AND WATER EROSION DURING ALL PHASES OF THE PROJECT.
- 5. STOCKPILES INACTIVE FOR 14 DAYS ARE REQUIRED TO HAVE TEMPORARY STABILIZATION OR APPROPRIATE COVER TO CONTROL WIND AND WATER EROSION.
- THE OPERATOR WITH CONTROL OF THE DAILY SITES ACTIVITIES IS REQUIRED TO MAINTAIN ALL SITE BMP'S IN GOOD CONDITION FOR THE DURATION OF THE PROJECT UNTIL A NOTICE OF TERMINATION IS ACCEPTED BY THE EPA.
- 7. IF SITE EARTH DISTURBANCES EXCEED 5 ACRES AT ANY ONE TIME, TEMPORARY AND/OR PERMANENT STABILIZATION MUST BE COMPLETED WITHIN 7 DAYS WHEN AREA BECOMES INACTIVE OR EARTH DISTURBING ACTIVITIES ARE COMPLETE. SITE EARTH DISTURBANCES OF LESS THAN 5 ACRES, HAVE 14 DAYS TO PROVIDE TEMPORARY OR PERMANENT STABILIZATION WHEN AREA BECOMES INACTIVE OR EARTH DISTURBING ACTIVITIES ARE COMPLETE.

#### GENERAL NOTES:

- 1. PROVIDE POSITIVE DRAINAGE TOWARDS SEDIMENT TRAPS DURING GRADING OPERATIONS.
- 2. INSTALL WATTLES ALONG LINEAR CONSTRUCTION OF SD
- 3. PROVIDE POSITIVE DRAINAGE TO TEMPORARY SEDIMENT BASIN DURING ALL GRADING ACTIVITIES
- 4. OFFSITE GRADING AND ROADWAY IMPROVEMENTS ARE TO BE COMPLETED BY OTHERS. COORDINATION OF OFFSITE BMP'S WITH PROPOSED ONSITE BMP'S SHALL BE REQUIRED BY THE CONTRACTOR(S)

06/26/24 NEW MEXICO ENERGY MINERAL AND NATURAL RESOURCE ABANDONED MINE LAND PROGRAM MADRID WATER - FIRE SUPPRESSION IMPROVEMENTS







Phone: 505-858-3100 | PROJECT NO.

MO./DAY/YR. ZONE MAP NO. SHEET OF EMNRD-MMD-2025-01

TIERRA WEST, LLC

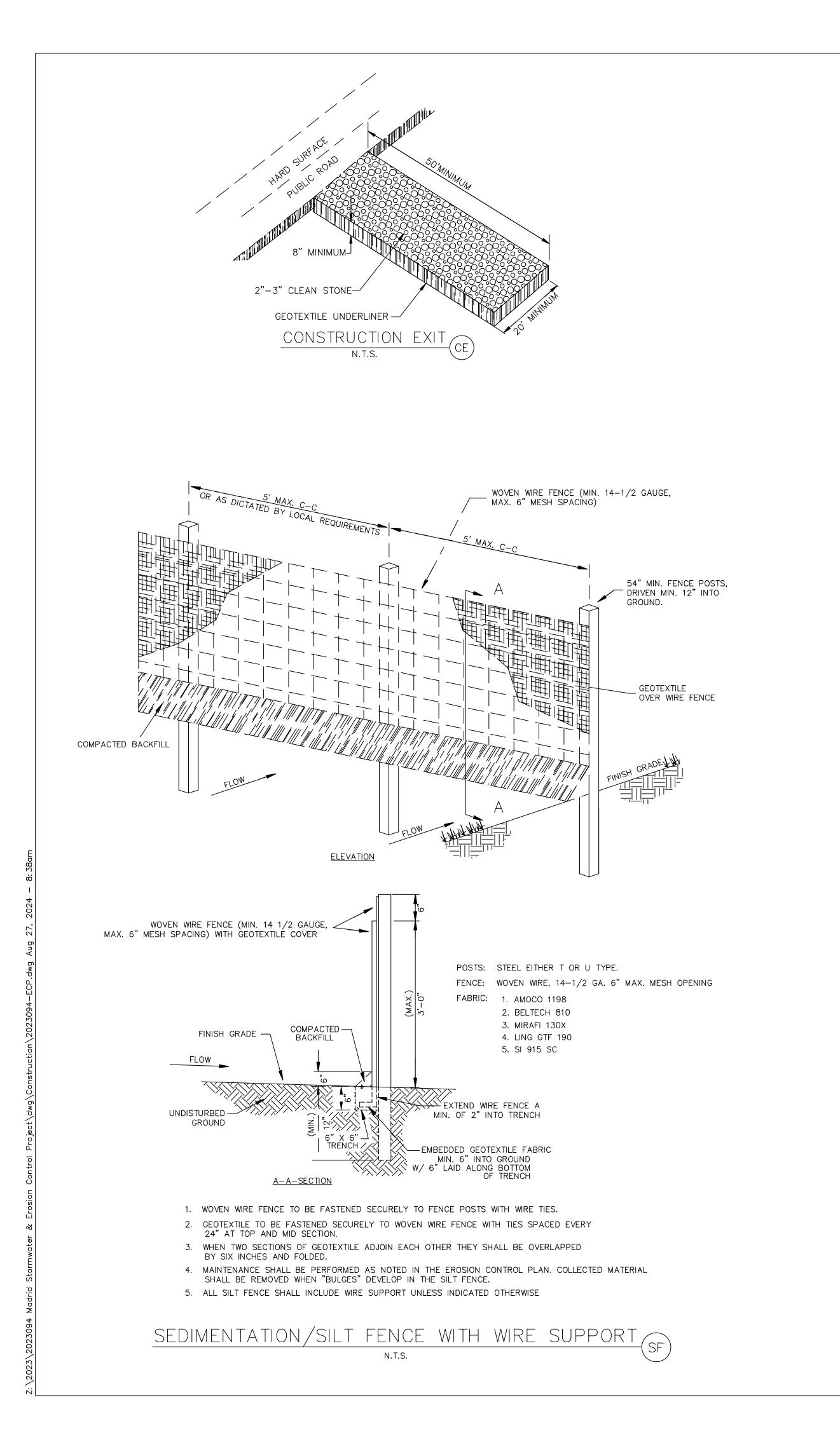
5571 MIDWAY PARK PLACE NE

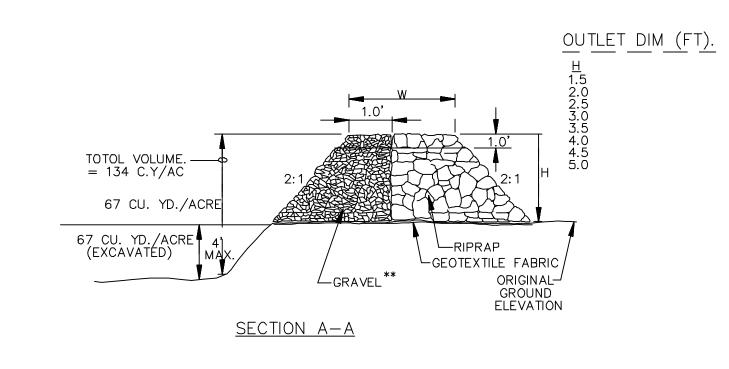
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(505) 858-3100

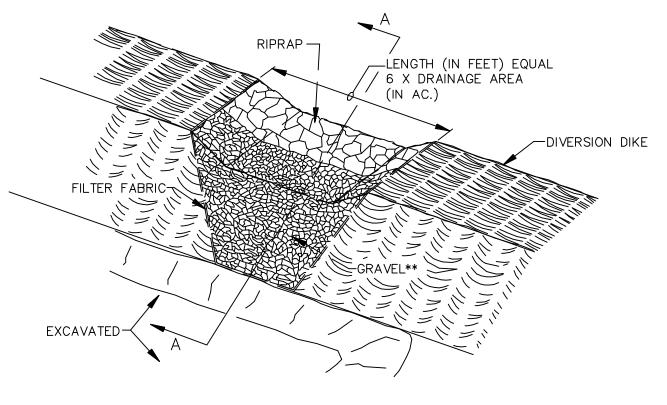
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**EROSION CONTROL NOTES** 

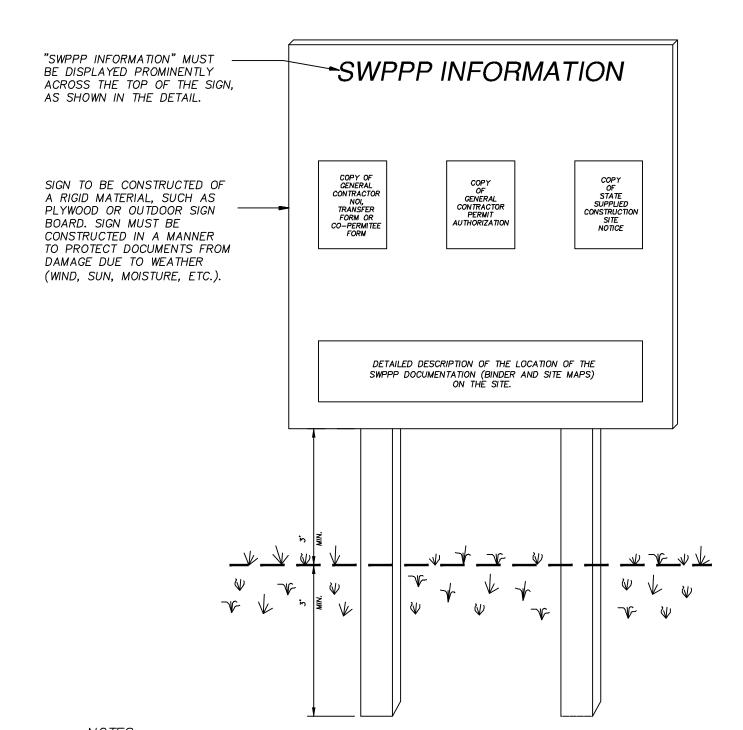




\*\* GRAVEL SHALL BE 2"-3" CLEAN STONE







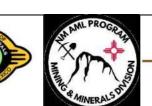
VIEWS AS TO CAUSE A SAFETY HAZARD.

1) 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

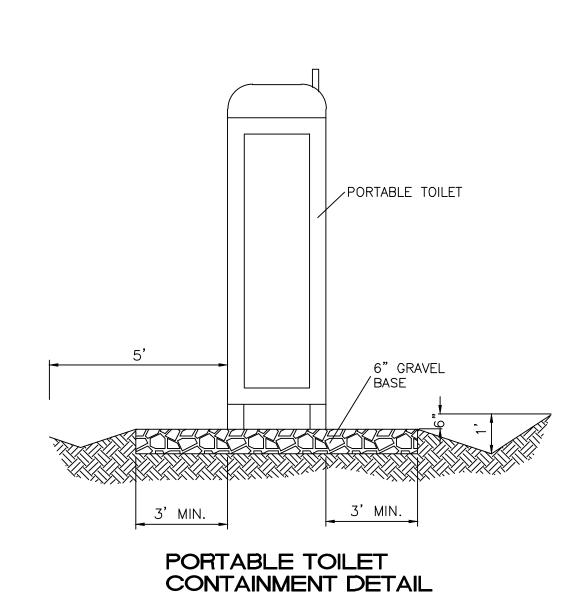
- 2) ALL POSTED DOCUMENTS MUST BE MAINTAINED IN A CLEARLY READABLE CONDITION AT ALL TIMES THROUGHOUT CONSTRUCTION AND UNTIL THE NOTICE-OF-TERMINATION (NOT) IS FILED FOR THE
- CONTRACTOR SHALL POST OTHER STORM WATER AND/OR EROSION AND SEDIMENT CONTROL RELATED PERMITS ON THE SIGN AS REQUIRED BY THE GOVERNING AGENCY.
- SIGN SHALL BE LOCATED OUTSIDE OF PUBLIC RIGHT-OF-WAY AND EASEMENTS UNLESS APPROVED
- BY THE GOVERNING AGENCY. 5) CONTRACTOR IS RESPONSIBLE FOR ENSURING STABILITY OF THE SWPPP INFORMATION SIGN.

SWPPP\_INFORMATION\_SIGN (SS)









06/26/24

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

NEW MEXICO ENERGY MINERAL AND NATURAL RESOURCE ABANDONED MINE LAND PROGRAM

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

MO./DAY/YR. ZONE MAP NO. 16 EMNRD-MMD-2025-01