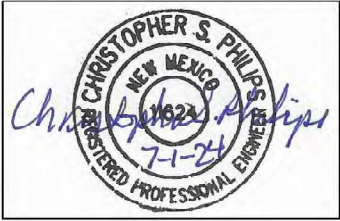
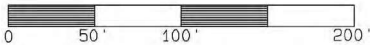
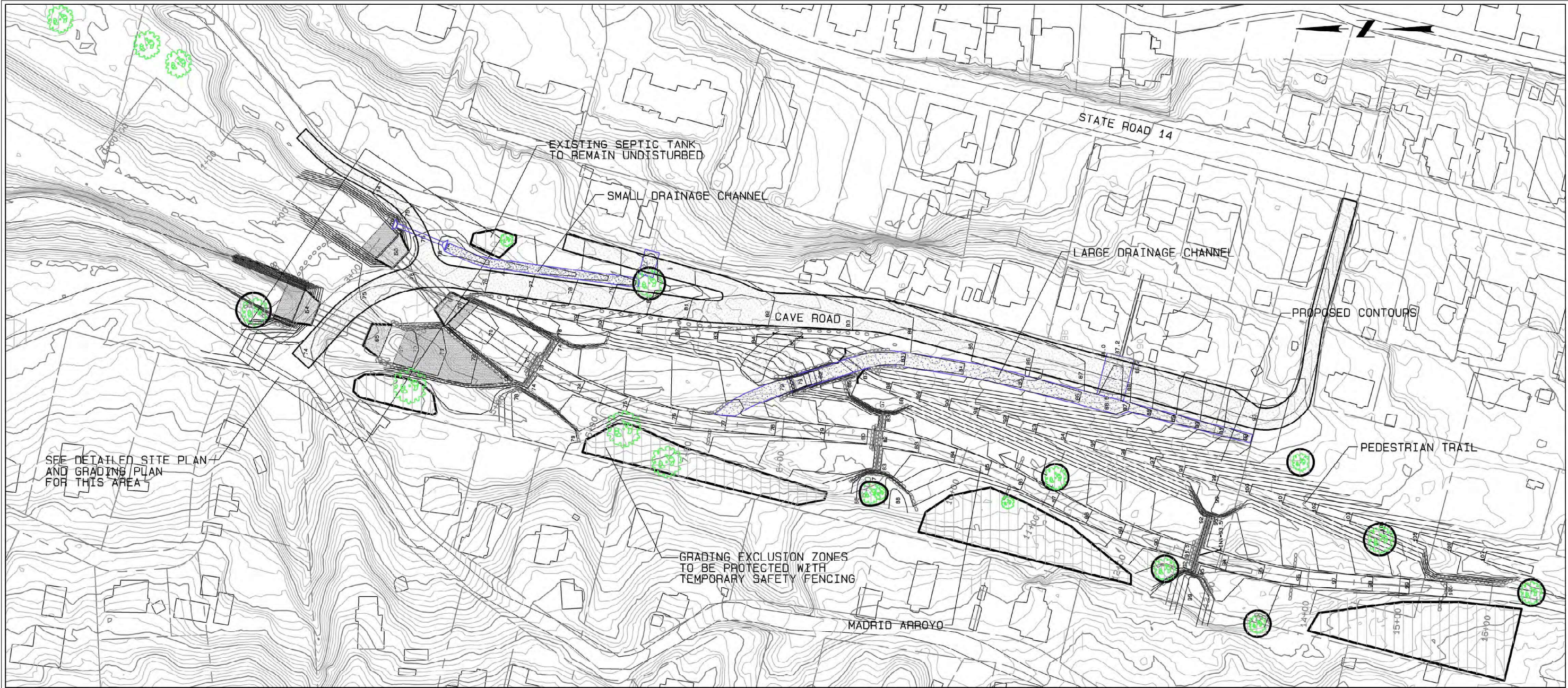


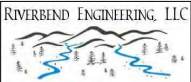
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B	11/4/24	100% FINAL							
C	3/27/25	FOR-BID							
NO.	DATE	APPR.	REVISION	NO.	DATE	APPR.	REVISION	NO.	DATE

VILLAGE OF MADRID, NM
STORM WATER & EROSION CONTROL PROJECT

MADRIDNEW MEXICO


RIVERBEND ENGINEERING, LLC

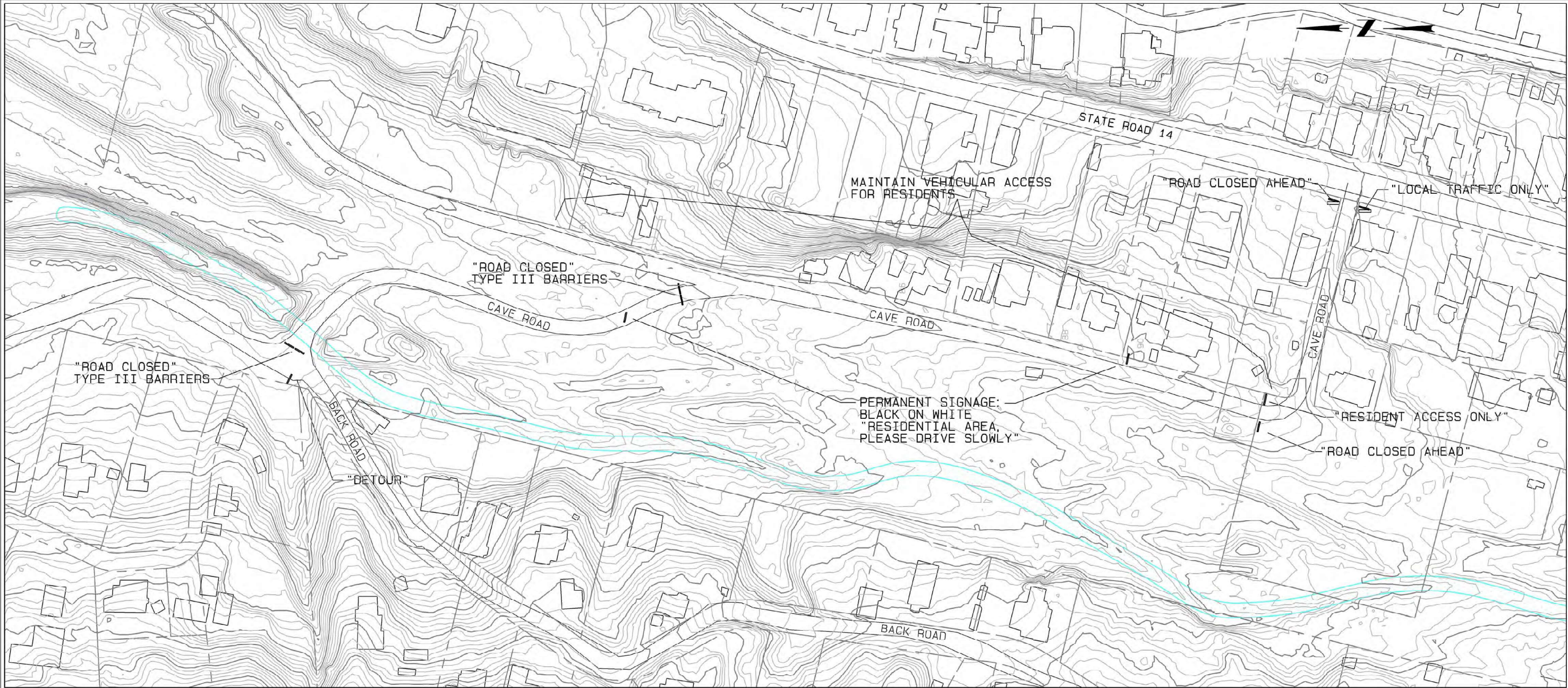
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CHECKED	CP	DATE	10/31/24	CLIENT APPROVALS	DATE
DES. ENGR.	CP	DATE	10/31/24		
PROJ. ENGR.	CP	DATE	10/31/24		
PROJ. MGR.	RE	DATE	10/31/24		
APPROVED					
APPROVED					

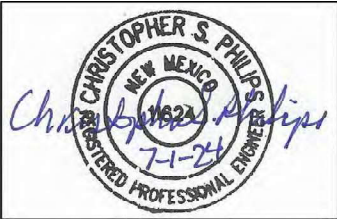
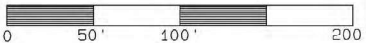
MADRID ARROYO
GRADING PLAN

DRAWN	C.PHILIPS	DATE	----	DWG. NO.	C204	REV. NO.	c
SCALE		W.O. NO.		15740.001.003	SHT. 54	of 83	

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NOTE: THE CONTRACTOR MUST MAINTAIN ACCESS FOR RESIDENTS ALONG CAVE ROAD, AS SHOWN. INTERUPTIONS IN VEHICULAR ACCESS MAY BE NECESSITATED BY CONSTRUCTION, BUT MUST BE LIMITED TO "DAY OF" CONSTRUCTION, AND WRITTEN/VERBAL NOTIFICATION MUST BE PROVIDED TO RESIDENTS PRIOR TO ACCESS DISRUPTIONS. SIMILARLY, RESIDENT PARKING PATTERNS MAY BECOME ALTERED DURING CONSTRUCTION AND AFTER CAVE ROAD IS COMPLETED. THE CONTRACTOR IS EXPECTED TO COMMUNICATE NEEDED CHANGES WITH THE RESIDENTS IN A FRIENDLY AND HELPFULL MANNER.

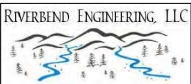


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C	3/27/25	FOR-BID				
NO.	DATE	APPR.	REVISION	NO.	DATE	APPR.

VILLAGE OF MADRID, NM
STORM WATER & EROSION CONTROL PROJECT

MADRID

NEW MEXICO


RIVERBEND ENGINEERING, LLC

ALBUQUERQUE

NEW MEXICO

CHECKED	CP	DATE	10/31/24	CLIENT APPROVALS	DATE
DES. ENGR.	CP	DATE	10/31/24		
PROJ. ENGR.	CP	DATE	10/31/24		
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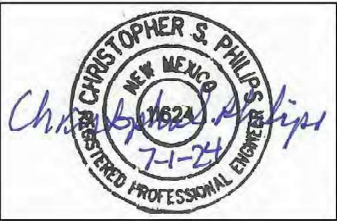
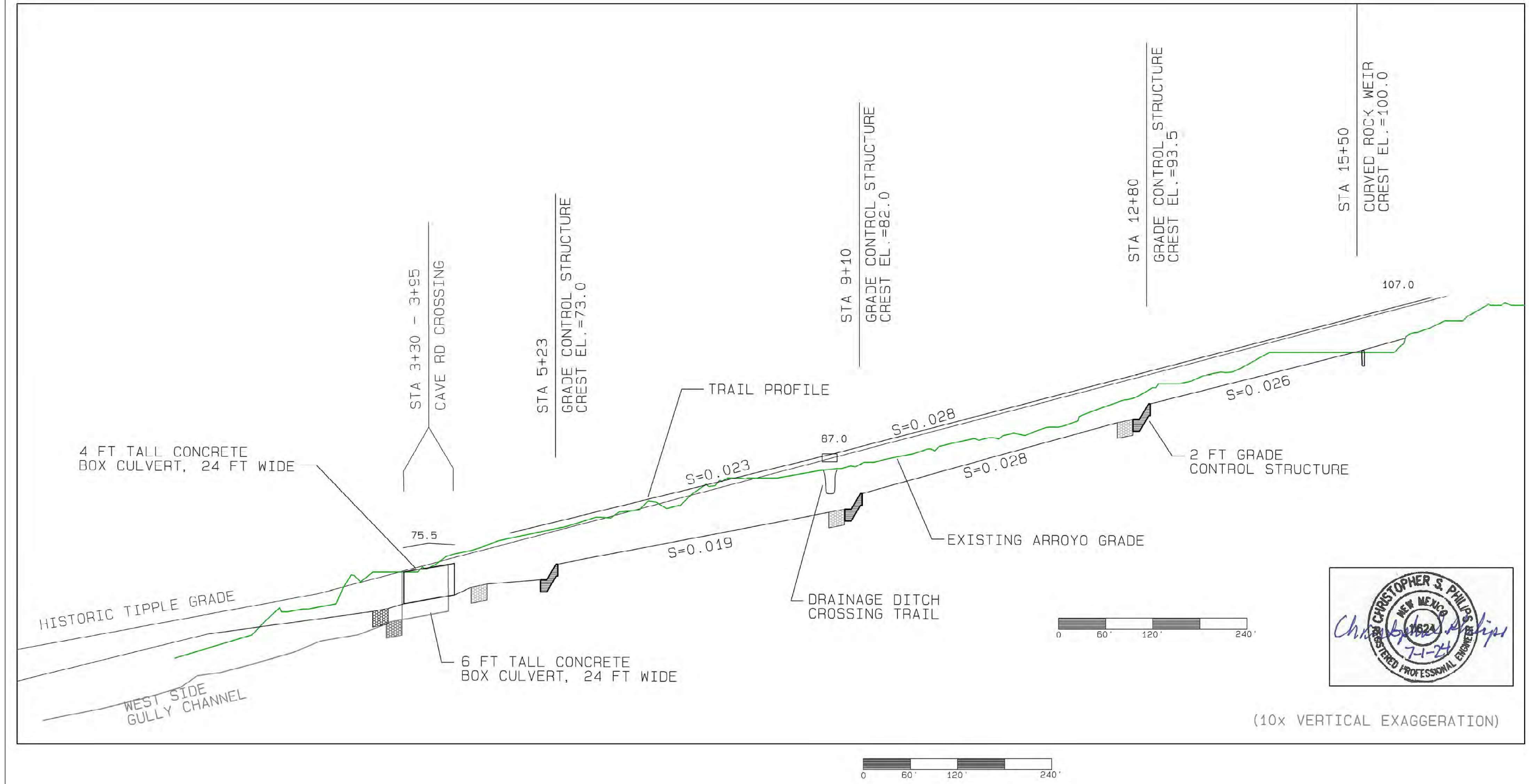
MADRID ARROYO
TRAFFIC CONTROL PLAN

DRAWN	C.PHILIPS	DATE	----	DWG. NO.	C206	REV. NO.	c
SCALE		W.O. NO.					

15740.001.003

SHT. 56 of 83

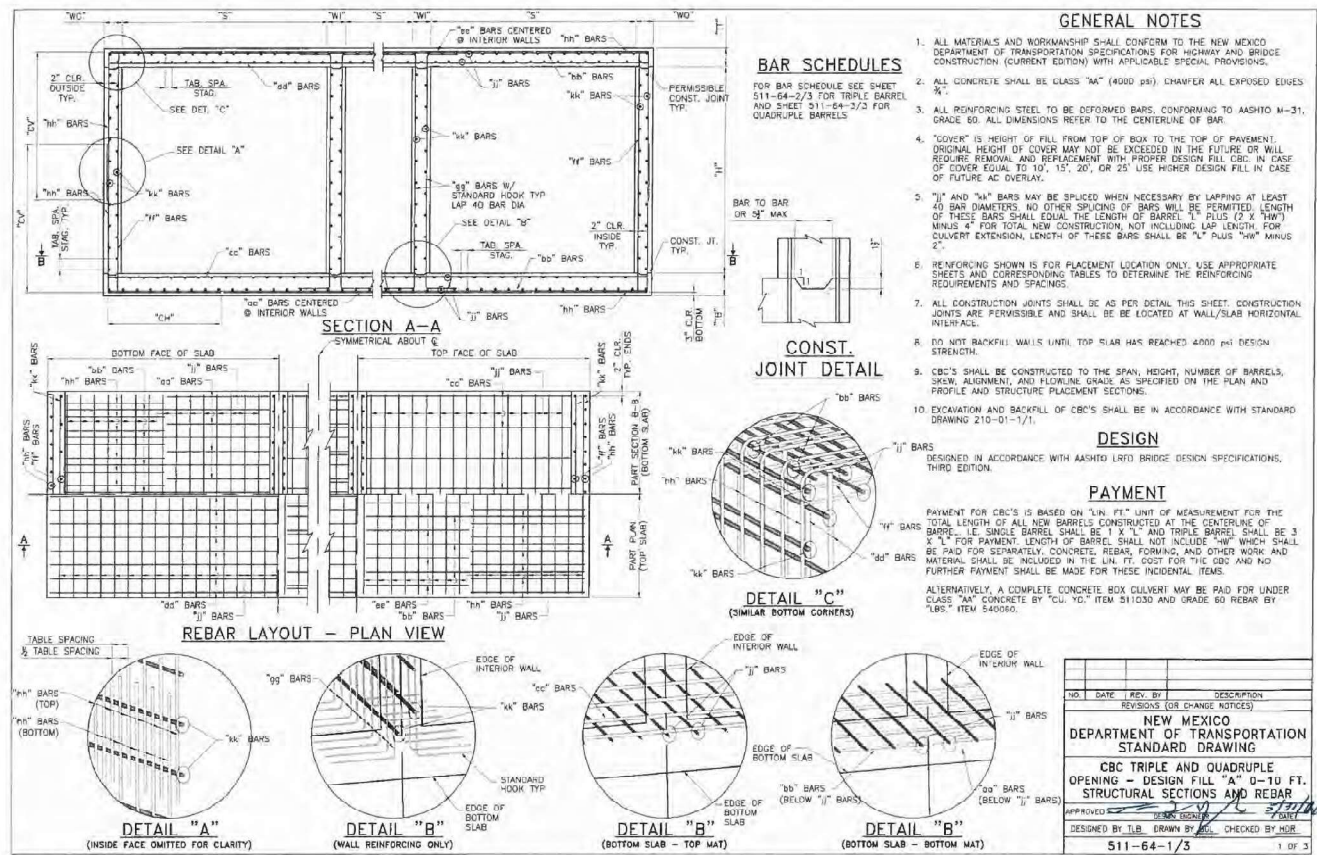
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NO.	DATE	APPR.	REVISION	NO.	DATE	APPR.

VILLAGE OF MADRID, NM STORM WATER & EROSION CONTROL PROJECT			CHECKED	CP	DATE	10/31/24	CLIENT APPROVALS	DATE	MADRID ARROYO ARROYO AND TRAIL PROFILES		
MADRID			DES. ENL.	CP	DATE	10/31/24					
			PROJ. ENL.	CP	DATE	10/31/24					
			PROJ. MGR.	RE	DATE	10/31/24					
			APPROVED								
			APPROVED								
ALBUQUERQUE			RIVERBEND ENGINEERING, LLC			NEW MEXICO			DRAWN	C. PHILIPS	DATE
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											c
											SHT. 57 of 83

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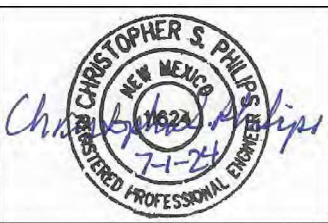
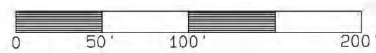
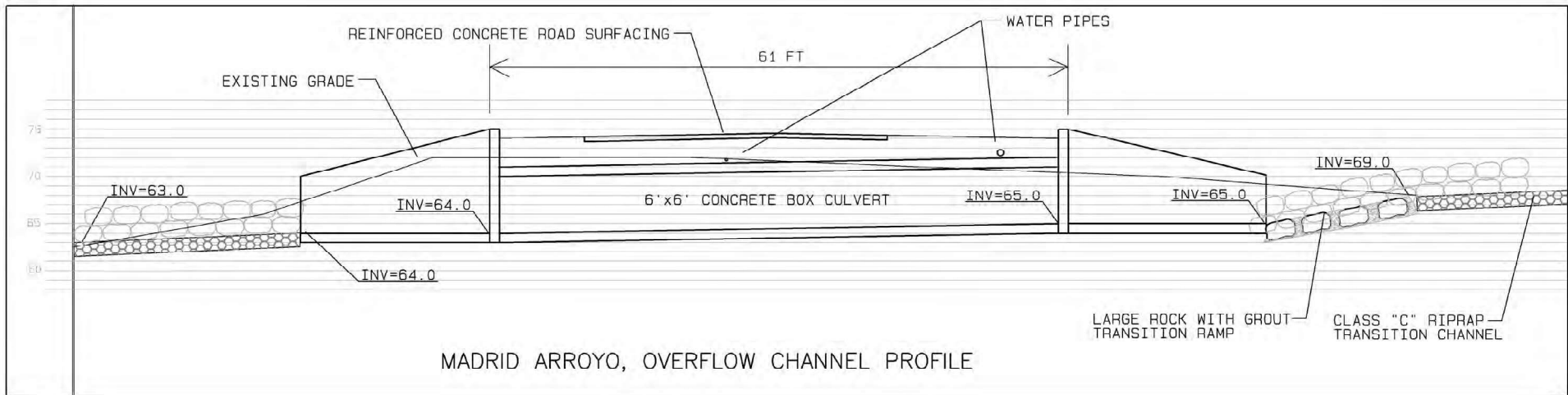
NMDOT CBC SHEET 129

QUADRUPLE OPENING BOX CULVERT STRUCTURE DIMENSIONS										GRADE 60 REINFORCING BAR SCHEDULE (BAR SIZE, SPACING AND LENGTH DIMENSIONS)									
0-10 FT. BURIAL DESIGN FILL "A"																			
DIM	SPAN "S" INSIDE	HEIGHT "H" INSIDE	TOP SLAB "T" INSIDE	BOTTOM SLAB "B" INSIDE	WALLS OUTER "W" INSIDE	WALLS INTERIOR "W" INSIDE	SIZE	SPACING	LENGTH	NUMBER OF BARS	SIZE	SPACING	LENGTH	SIZE	SPACING	LENGTH	SIZE	SPACING	LENGTH
10' 10'	10' 10'	10' 10'	10' 10'	10' 10'	10' 10'	10' 10'	10' 10'	10' 10'	10' 10'	10' 10'	10' 10'	10' 10'	10' 10'	10' 10'	10' 10'	10' 10'	10' 10'	10' 10'	10' 10'

EXAMPLE OF USE OF THIS TABLE: PROPOSED STRUCTURE - QUADRUPLE BARREL, 10 FT. SPAN/7 FT. HEIGHT, CBC WITH 2 FT. DEPTH OF COVER. USE THE FOLLOWING BUILD INFORMATION FROM THE TABLE ABOVE:																									
DIM		0-10 FT. BURIAL DESIGN FILL "A"		"I"	"A"	"W"	"B"	"T"	"S"	"H"	"W"	"B"	"T"	"S"	"H"	"W"	"B"	"T"	"S"	"H"	"W"	"B"	"T"	"S"	
SPAN "S" INSIDE		HEIGHT "H" INSIDE		TOP SLAB "T"		BOTTOM SLAB		WALLS INTERIOR		WALLS EXTERIOR		NUMBER OF RIMS		SPAN		SPAN		SPAN		SPAN		SPAN		SPAN	
10' 7"		11' 0"		10' 10"		10' 10"		6' 0"		6' 0"		3		10' 12"		10' 12"		10' 12"		10' 12"		10' 12"		10' 12"	
10' 7"		11' 0"		10' 10"		10' 10"		6' 0"		6' 0"		3		10' 12"		10' 12"		10' 12"		10' 12"		10' 12"		10' 12"	
10' 7"		11' 0"		10' 10"		10' 10"		6' 0"		6' 0"		3		10' 12"		10' 12"		10' 12"		10' 12"		10' 12"		10' 12"	
10' 7"		11' 0"		10' 10"		10' 10"		6' 0"		6' 0"		3		10' 12"		10' 12"		10' 12"		10' 12"		10' 12"		10' 12"	
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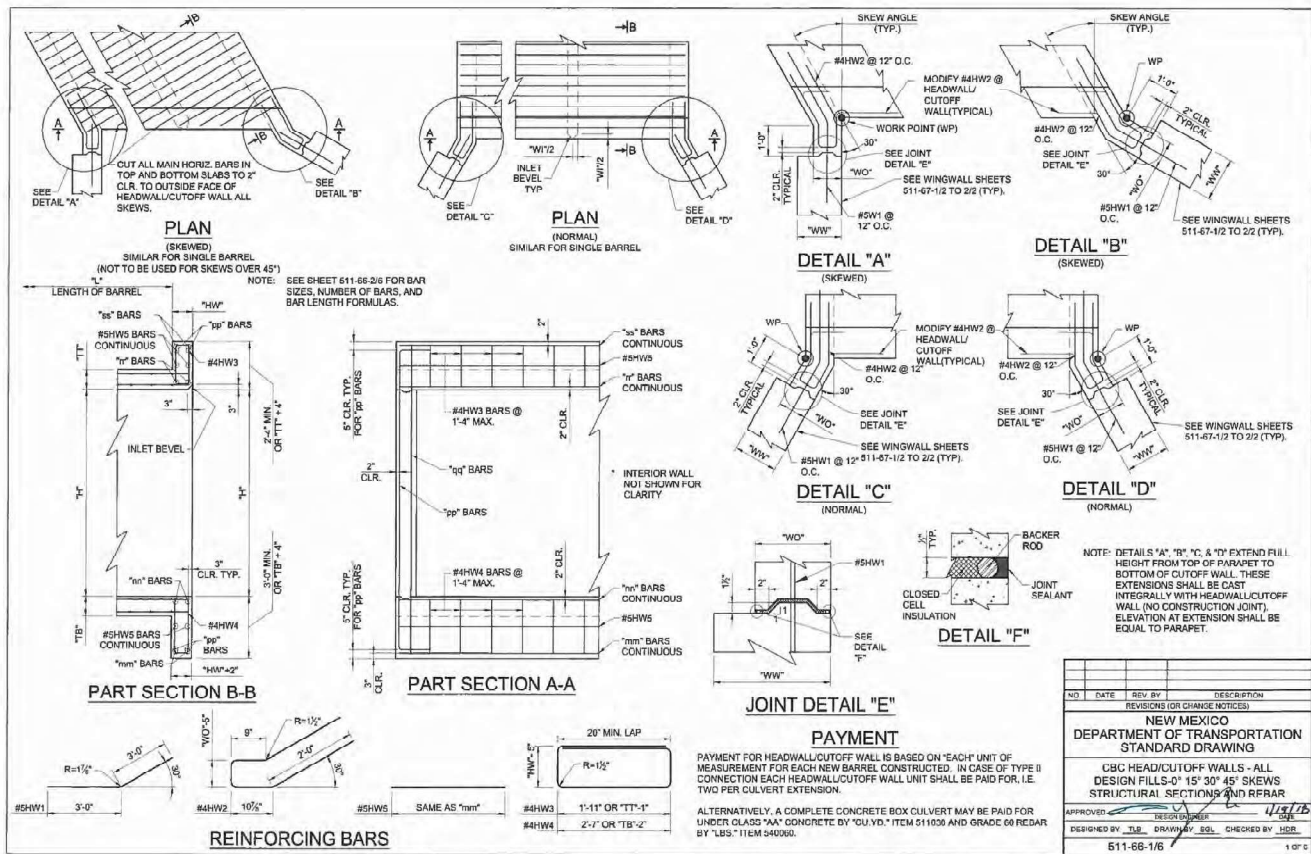
NO.	DATE	REV.	BY	DESCRIPTION
1	10/31/24	1	CP	DESIGNED BY T.B. DRAWN BY SCL. CHECKED BY HJR.

NEW MEXICO
DEPARTMENT OF TRANSPORTATION
STANDARD DRAWING
CONCRETE BOX CULVERT QUADRUPLE
OPENING - DESIGN FILL "A" 0-10 FT.
DIMENSIONS AND REBAR SCHEDULE
DESIGNED BY T.B. DRAWN BY SCL. CHECKED BY HJR.
511-64-3/3 3 OF 3

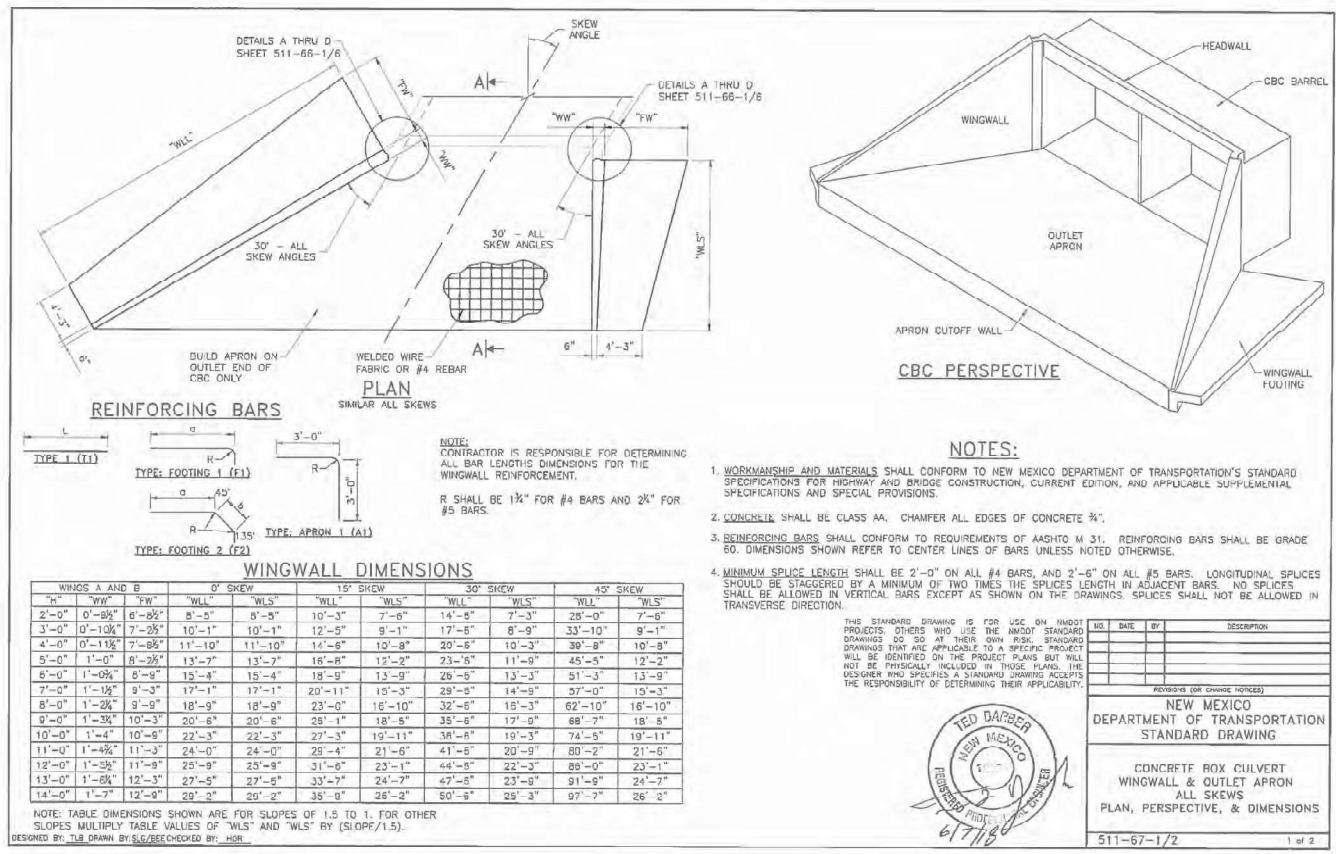


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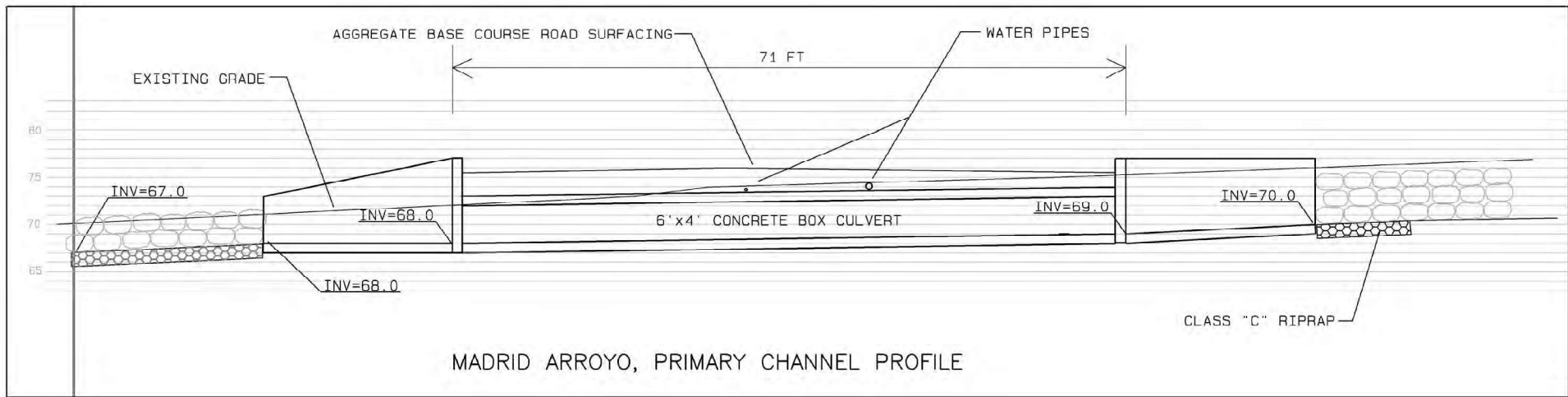
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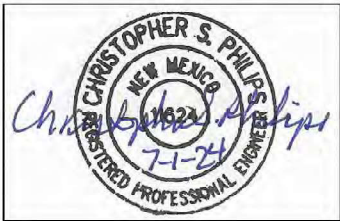
NMDOT CBC SHEET 135



NMDOT CBC SHEET 140



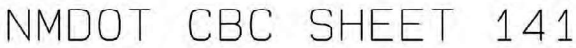
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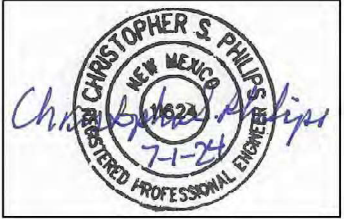
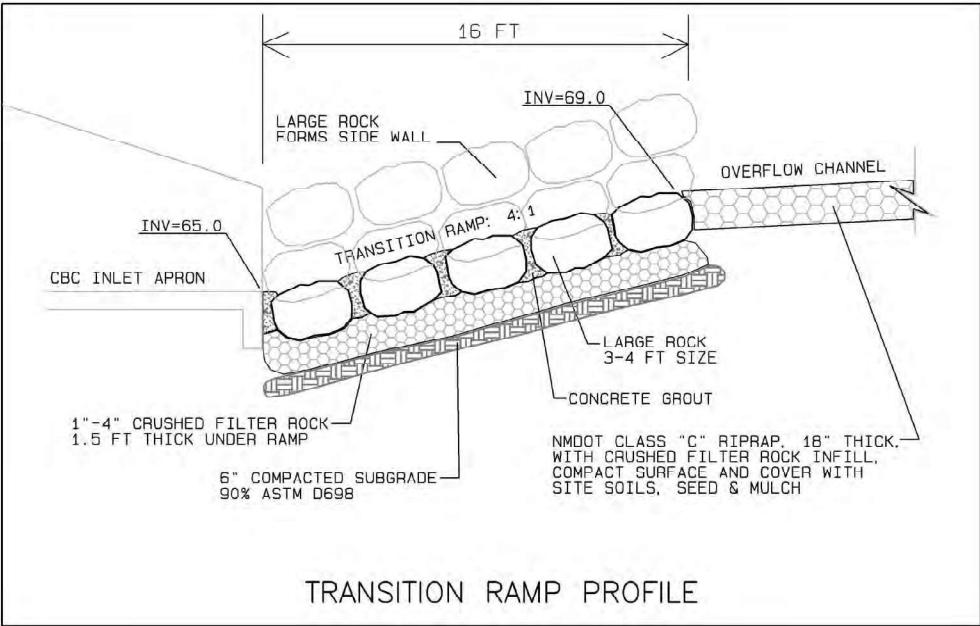
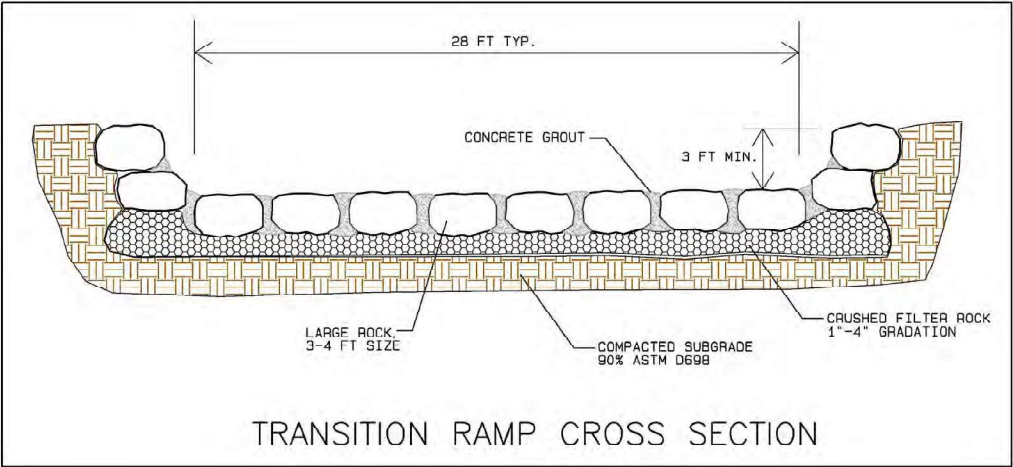
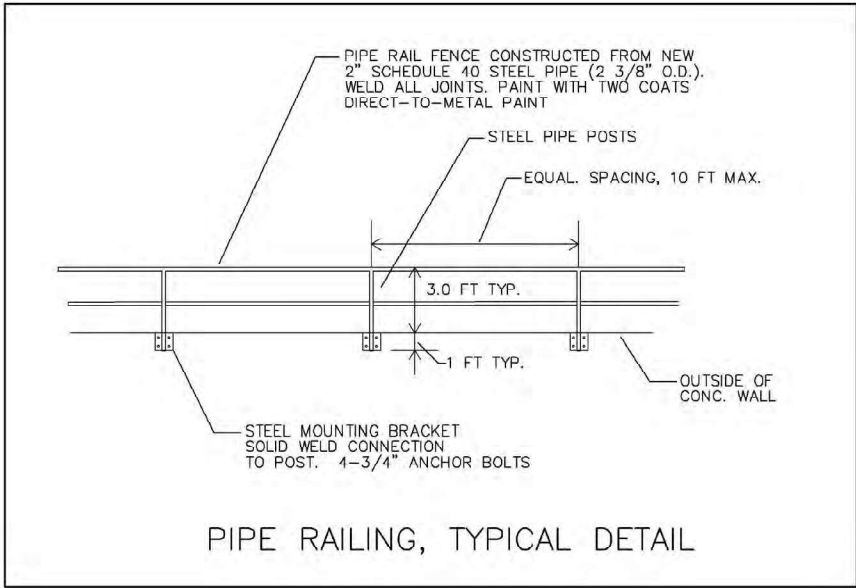
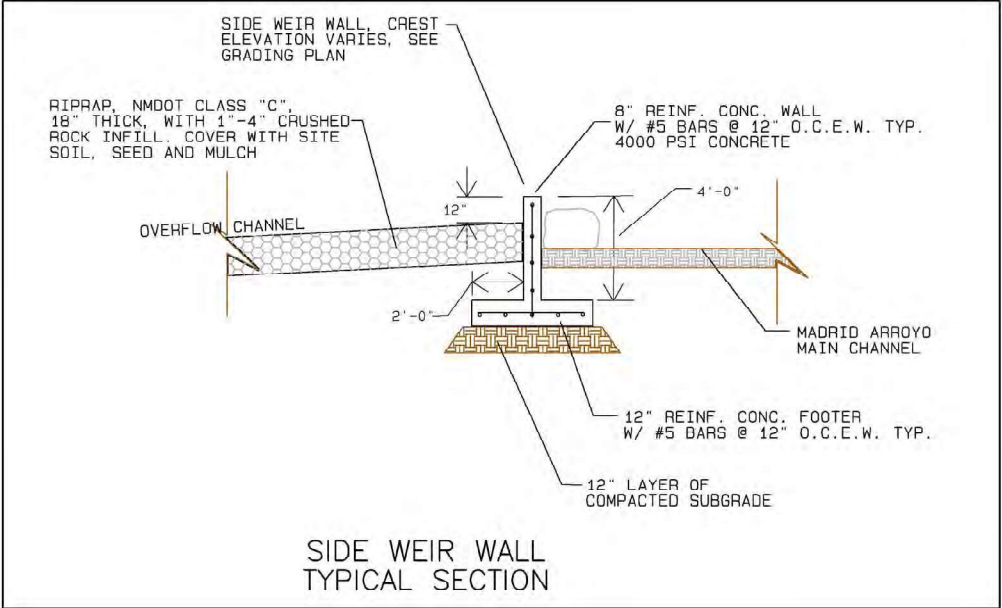
A circular professional engineer seal for Christopher S. Phillips, New Mexico. The seal contains the text "CHRISTOPHER S. PHILLIPS", "NEW MEXICO", "1982", and "REGISTERED PROFESSIONAL ENGINEER". The license number "7-1-24" is handwritten in the center. The name "Christopher S. Phillips" is also handwritten across the seal.



CHECKED	CP	DATE	10/31/24
DES. ENG.	CP	10/31/24	
PROJ. ENG.	CP	10/31/24	
PROJ. MGR.	RE	10/31/24	

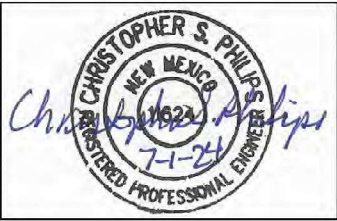
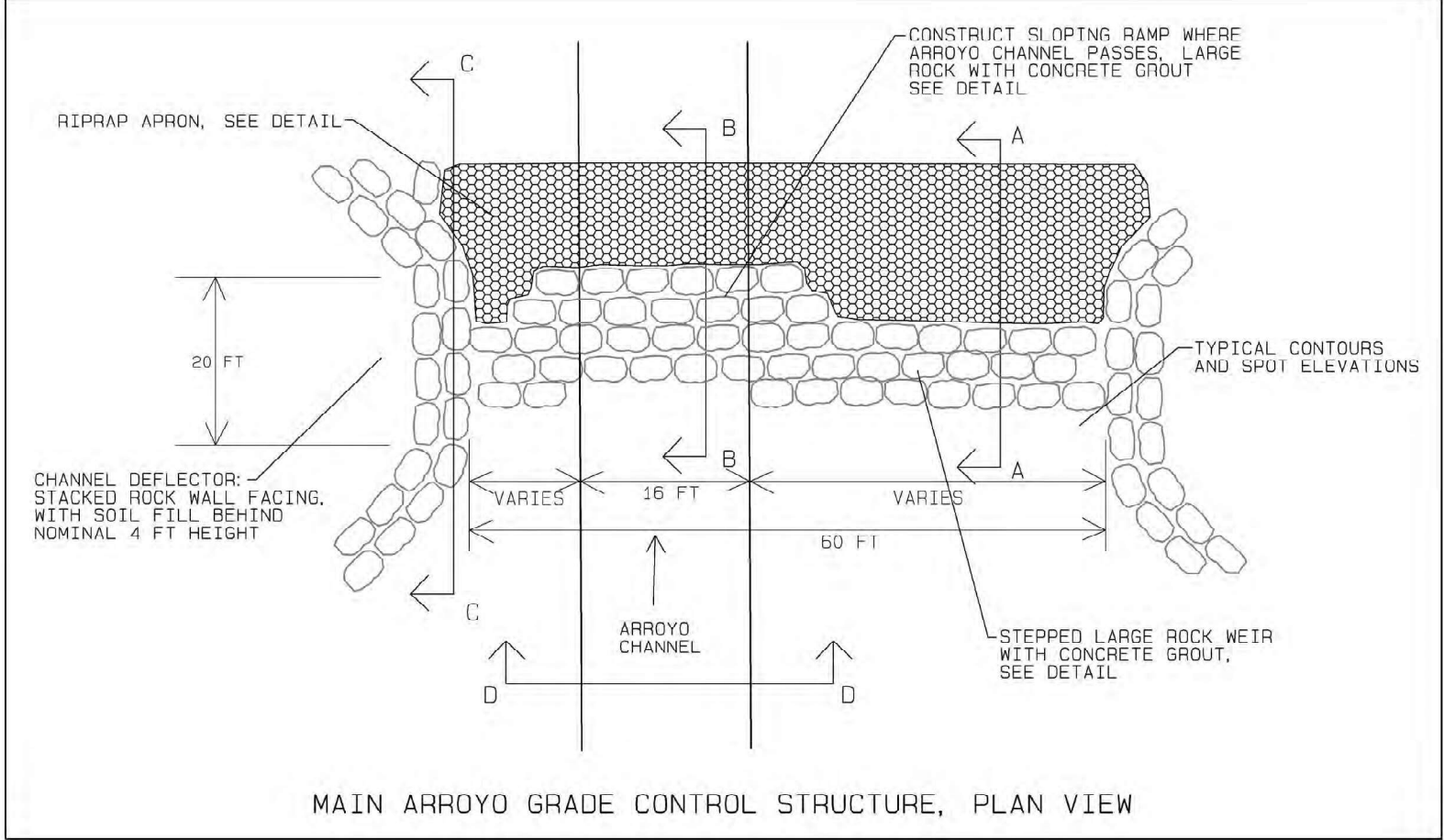
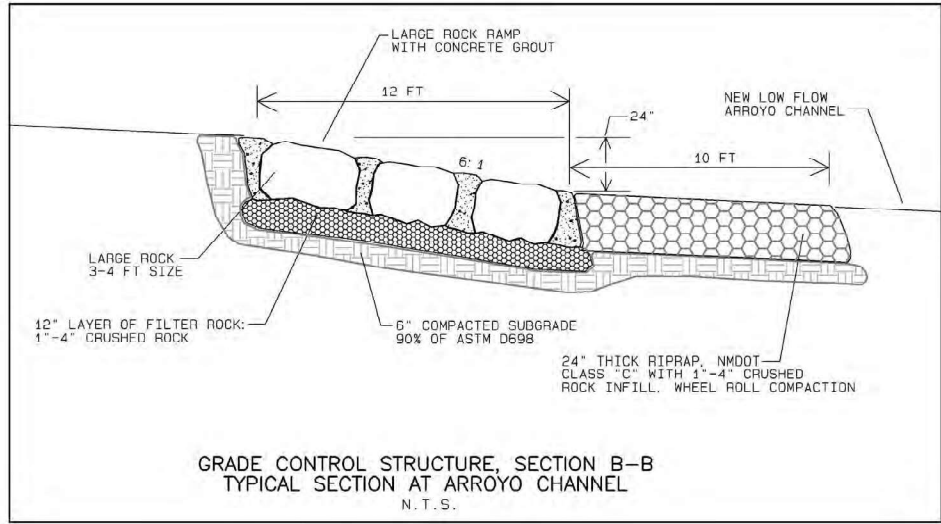
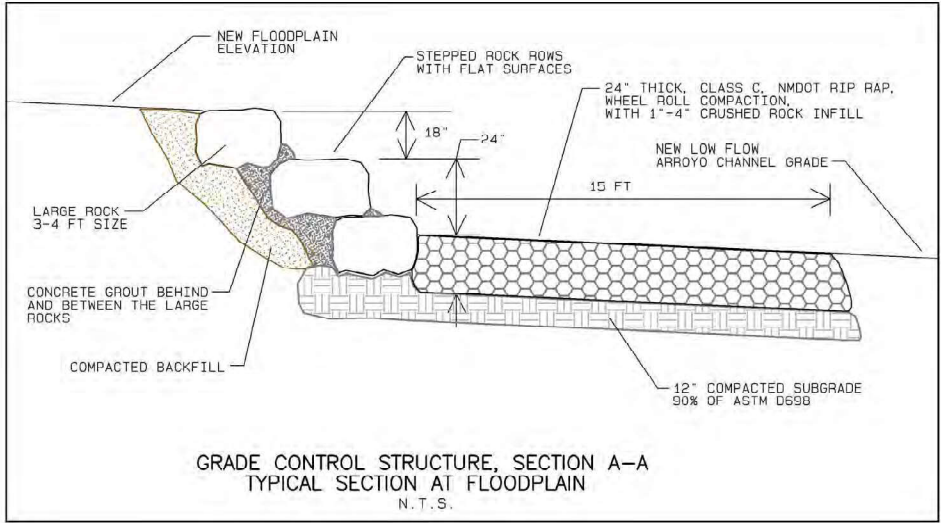
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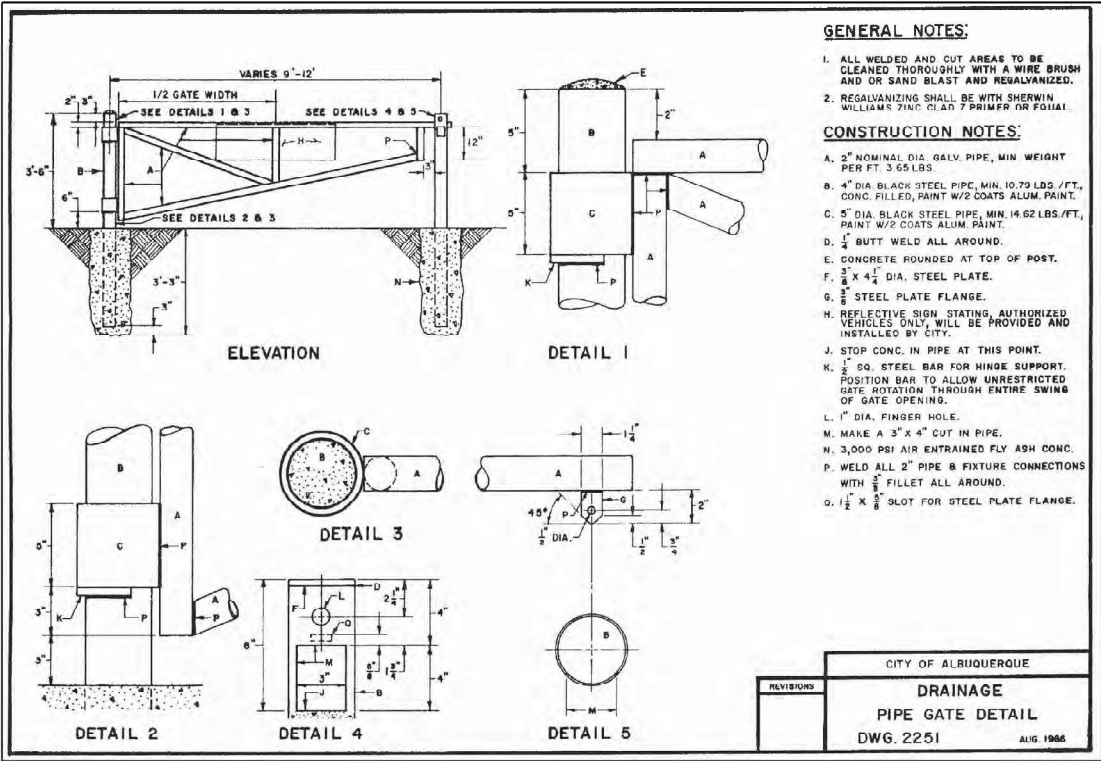
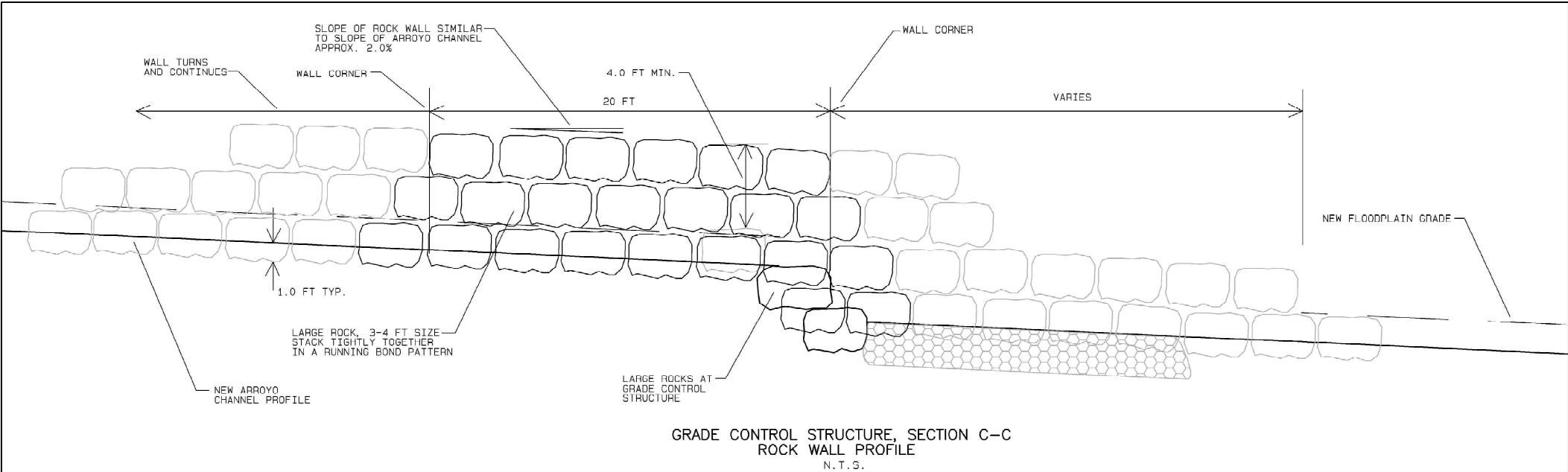
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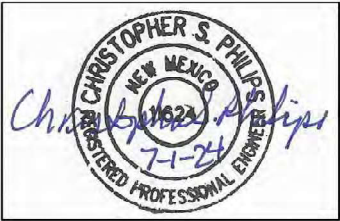
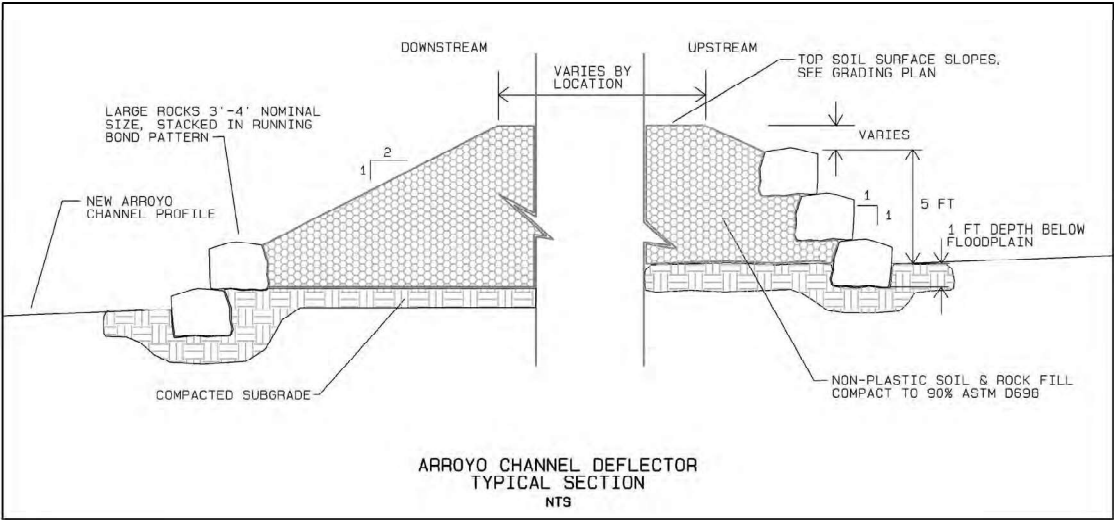


GENERAL NOTES:

1. ALL WELDED AND CUT AREAS TO BE CLEANED THOROUGHLY WITH A WIRE BRUSH AND OR SAND BLAST AND REGALVANIZED.
2. REGALVANIZING SHALL BE WITH SHERWIN WILLIAMS ZINC CLAD 7 PRIMER OR EQUIV.

CONSTRUCTION NOTES:

- A. 2" NOMINAL DIA. GALV. PIPE, MIN WEIGHT PER FT 3.65 LBS.
- B. 4" DIA. BLACK STEEL PIPE, MIN. 10.79 LBS./FT., CONC. FILLED, PAINT W/2 COATS ALUM. PAINT.
- C. 5" DIA. BLACK STEEL PIPE, MIN. 14.62 LBS./FT., PAINT W/2 COATS ALUM. PAINT.
- D. 1/2" BUTT WELD ALL AROUND.
- E. CONCRETE ROUNDED AT TOP OF POST.
- F. 3/8" X 4 1/2" DIA. STEEL PLATE.
- G. 5/8" STEEL PLATE FLANGE.
- H. REFLECTIVE SIGN, STATING, AUTHORIZED VEHICLES ONLY, WILL BE PROVIDED AND INSTALLED BY CITY.
- I. STOP CONC. IN PIPE AT THIS POINT.
- K. 1/2" SQ. STEEL BAR FOR HINGE SUPPORT. POSITION BAR TO ALLOW UNRESTRICTED GATE ROTATION THROUGH ENTIRE SWING OF GATE OPENING.
- L. 1" DIA. FINGER NUT.
- M. MAKE A 3" X 4" CUT IN PIPE.
- N. 3,000 PSI AIR ENTRAINED FLY ASH CONC.
- P. WELD ALL 2" PIPE & FIXTURE CONNECTIONS WITH 3/8" FILLET ALL AROUND.
- Q. 1 1/2" X 5/8" SLOT FOR STEEL PLATE FLANGE.



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NO.	DATE	APPR.	REVISION	NO.	DATE

VILLAGE OF MADRID, NM
STORM WATER & EROSION CONTROL PROJECT

MADRID
NEW MEXICO

ALBUQUERQUE
NEW MEXICO

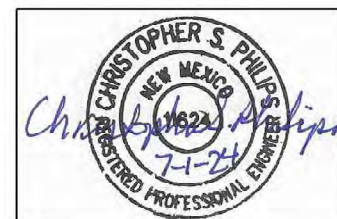
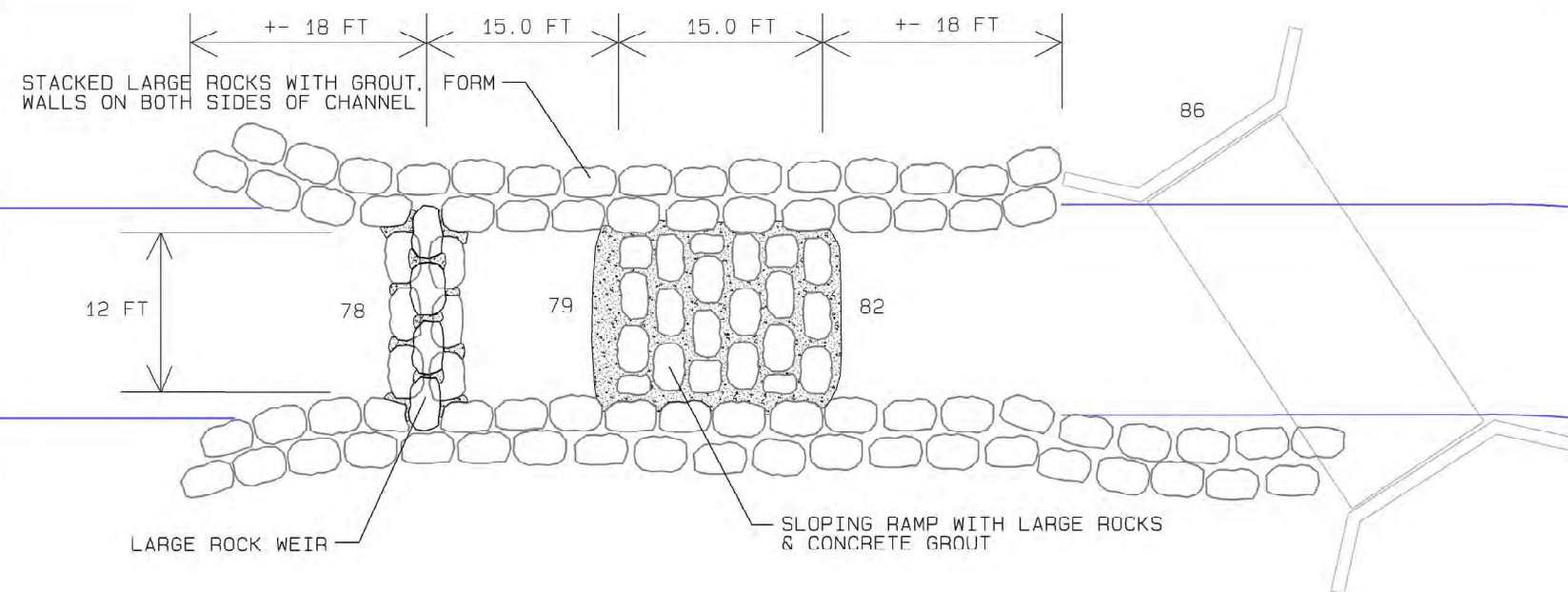
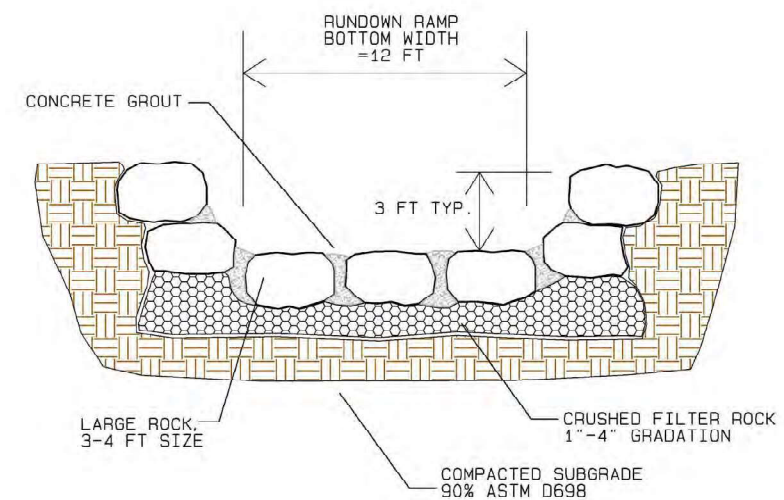
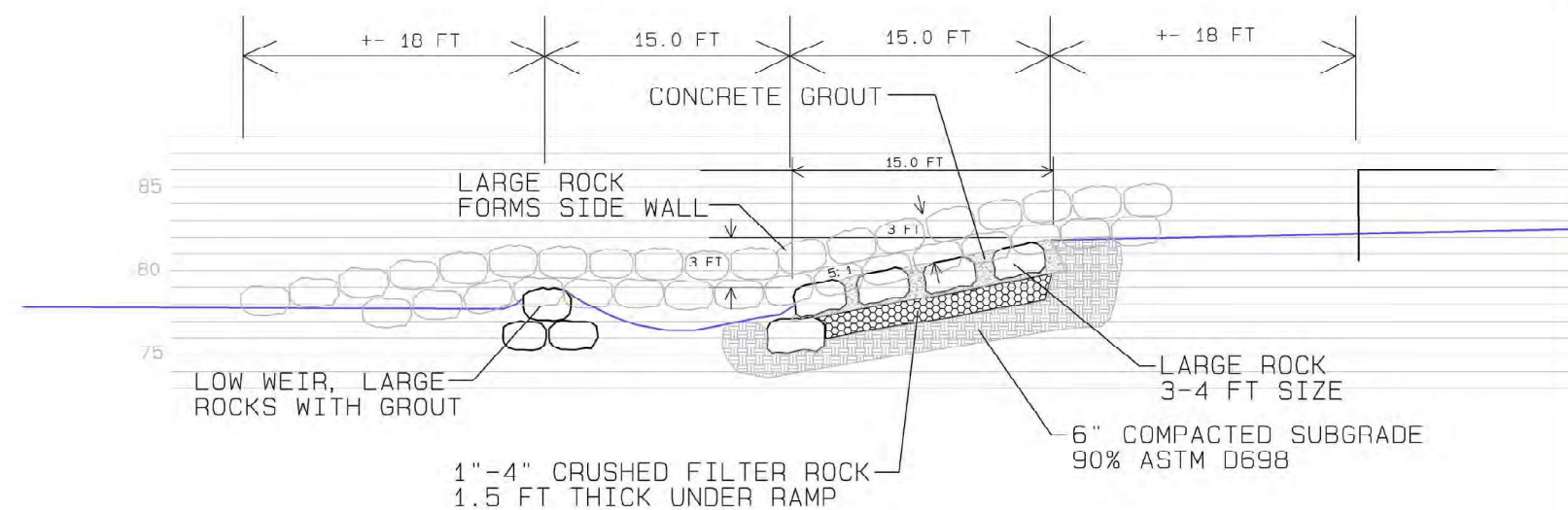
RIVERBEND ENGINEERING, LLC

NEW MEXICO

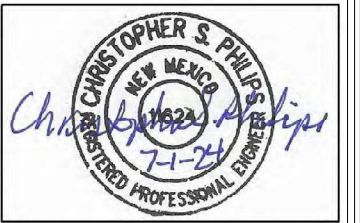
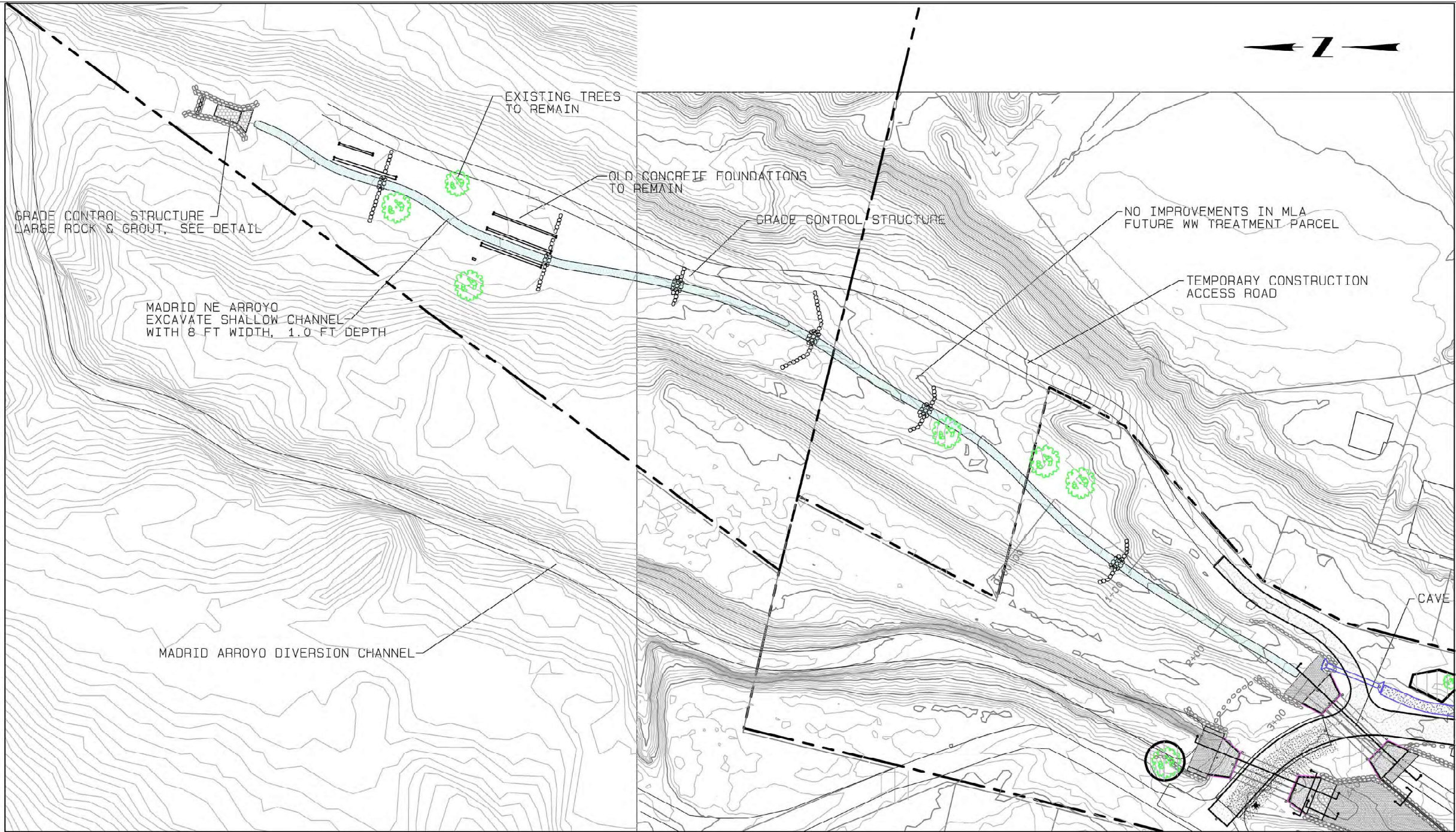
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MADRID ARROYO
GRADE CONTROL STRUCTURE DETAILS

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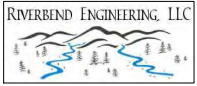
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VILLAGE OF MADRID, NM
STORM WATER & EROSION CONTROL PROJECT

MADRIDNEW MEXICO

**RIVERBEND ENGINEERING, LLC**

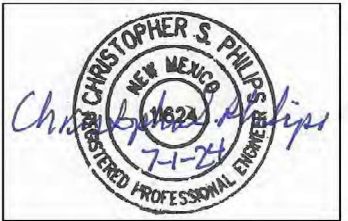
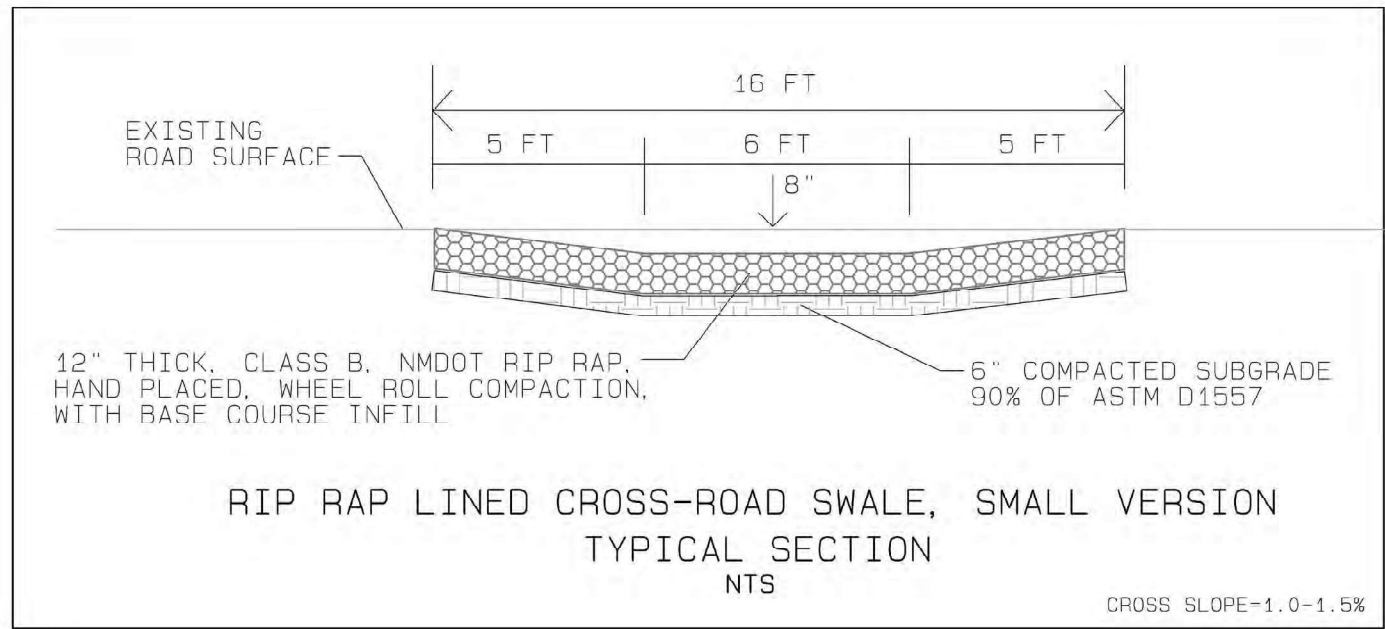
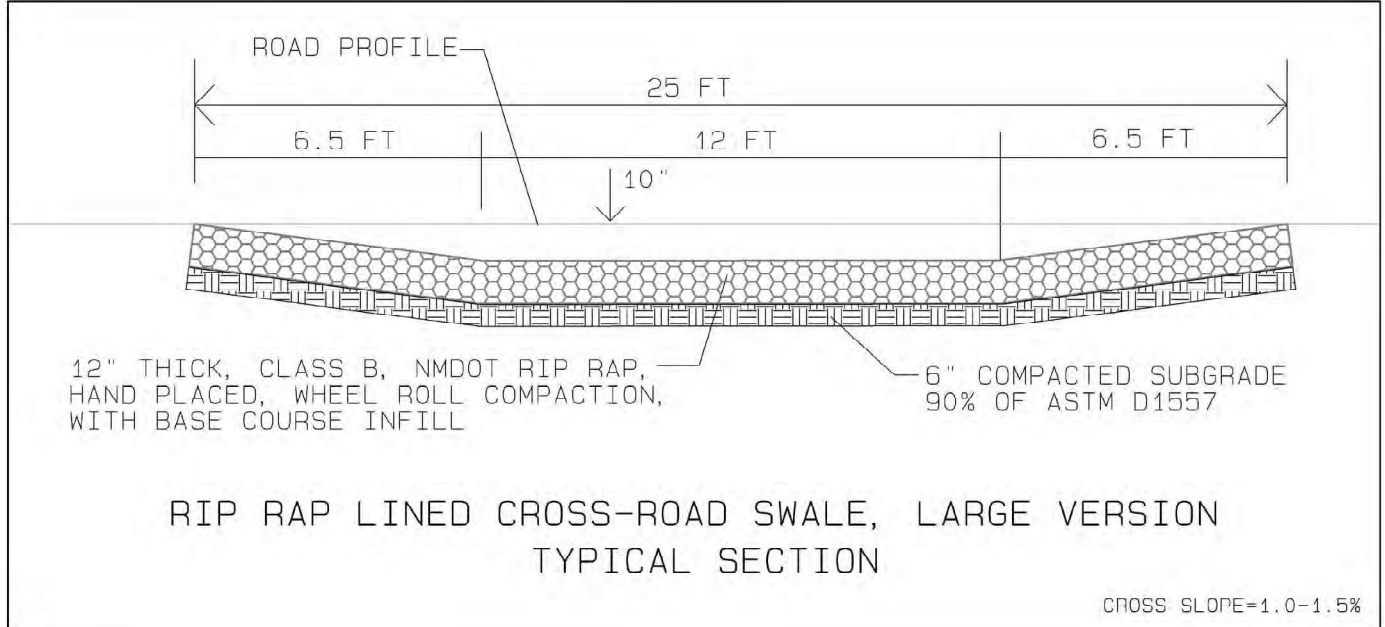
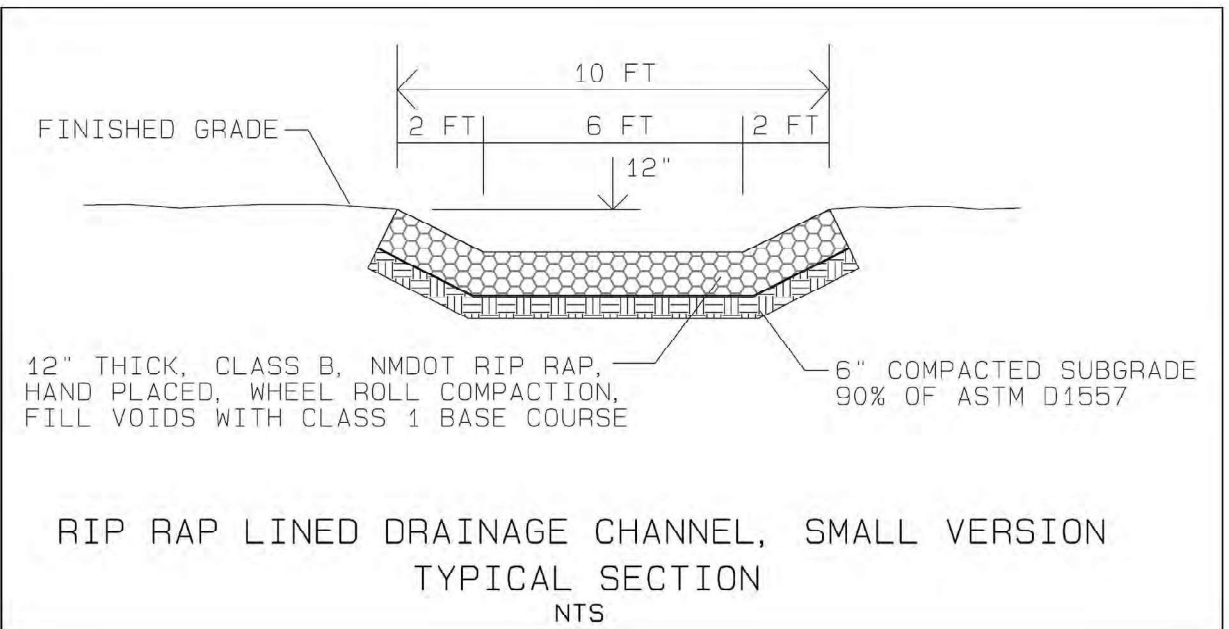
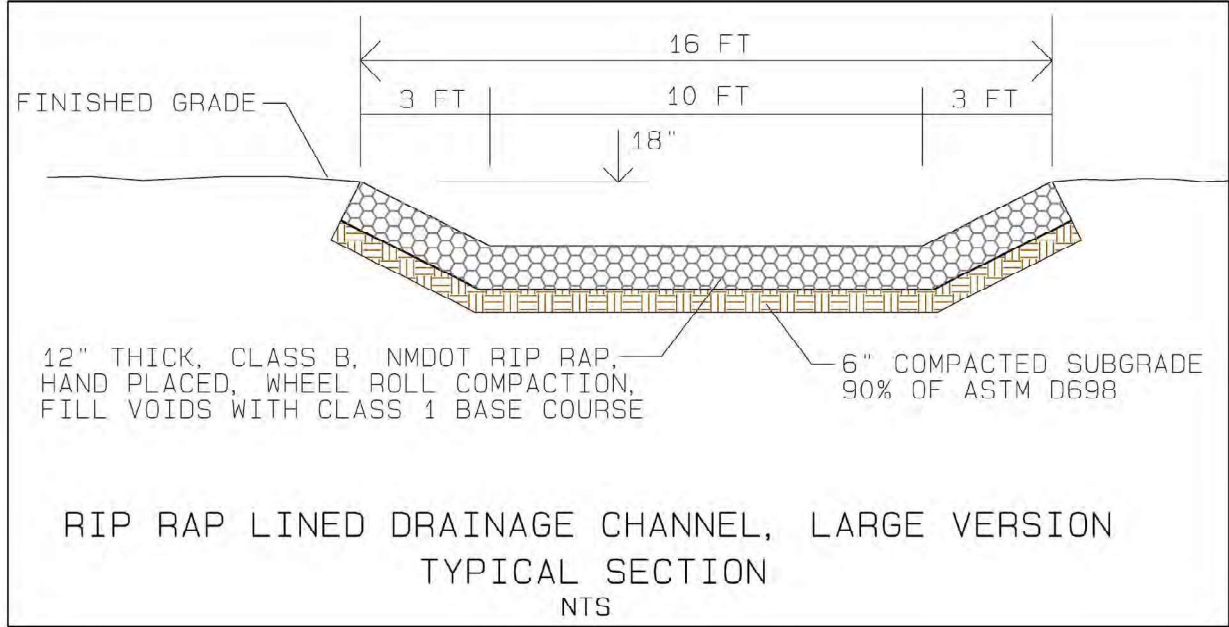
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MADRID ARROYO
TYPICAL SECTIONS
ROAD, TRAIL, ARROYO

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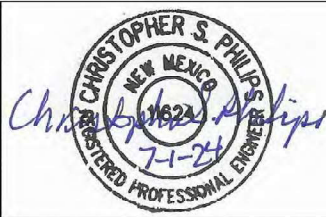
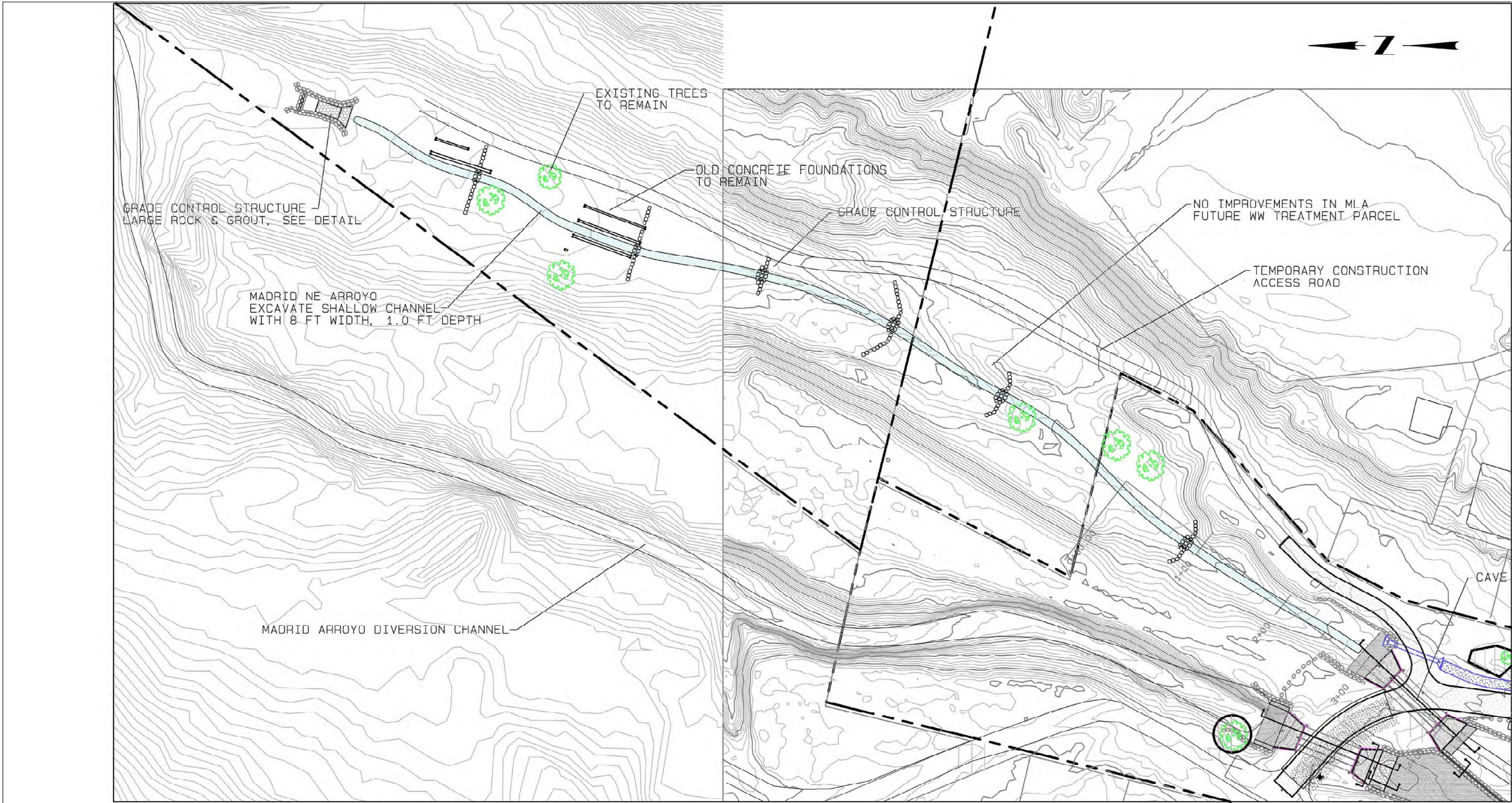
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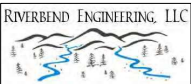
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VILLAGE OF MADRID, NM
STORM WATER & EROSION CONTROL PROJECT

MADRIDNEW MEXICO


RIVERBEND ENGINEERING, LLC

ALBUQUERQUENEW MEXICO

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MADRID ARROYO
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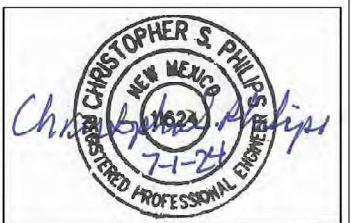
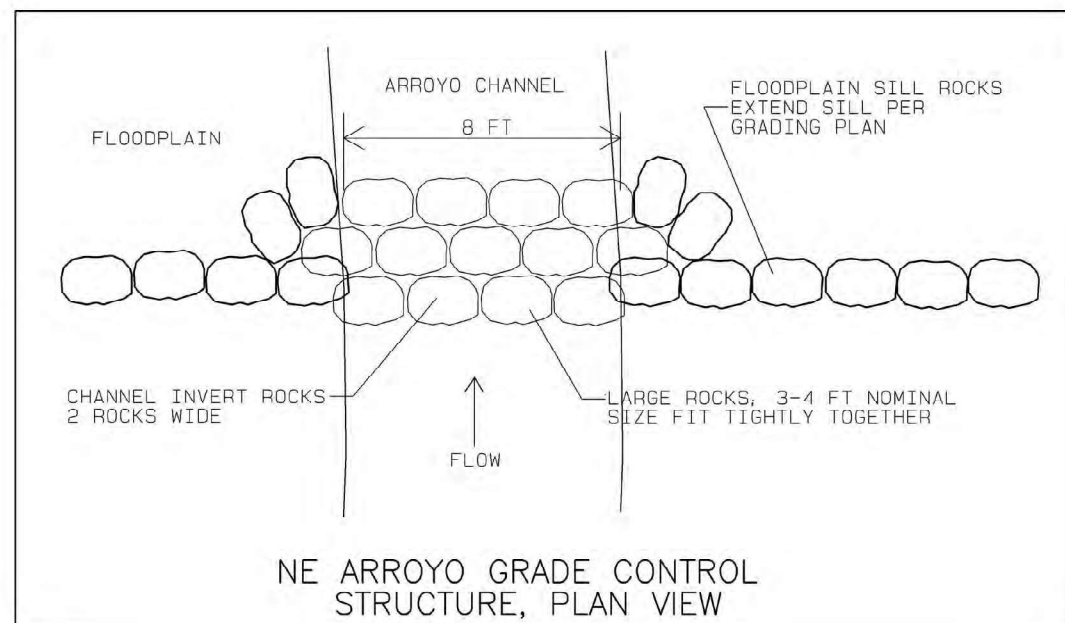
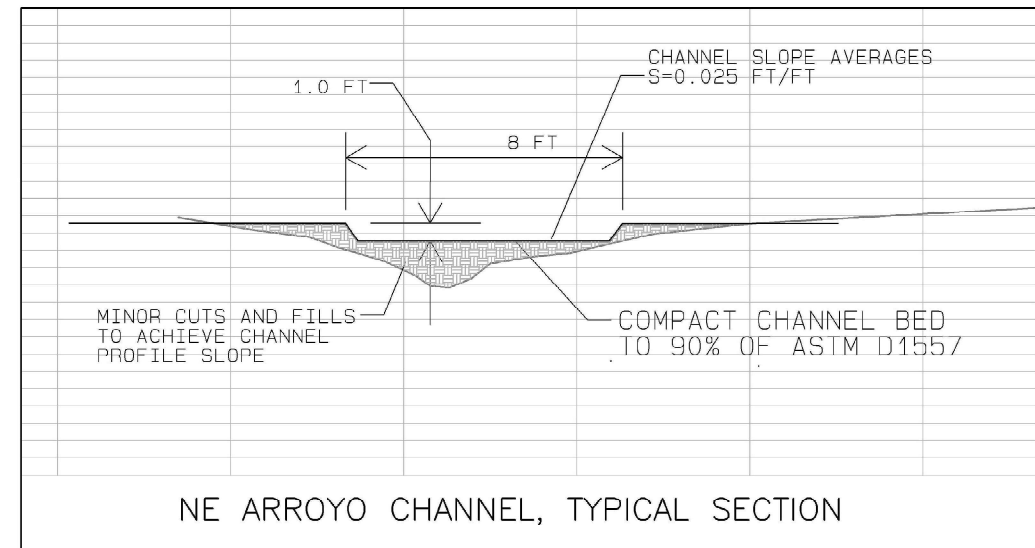
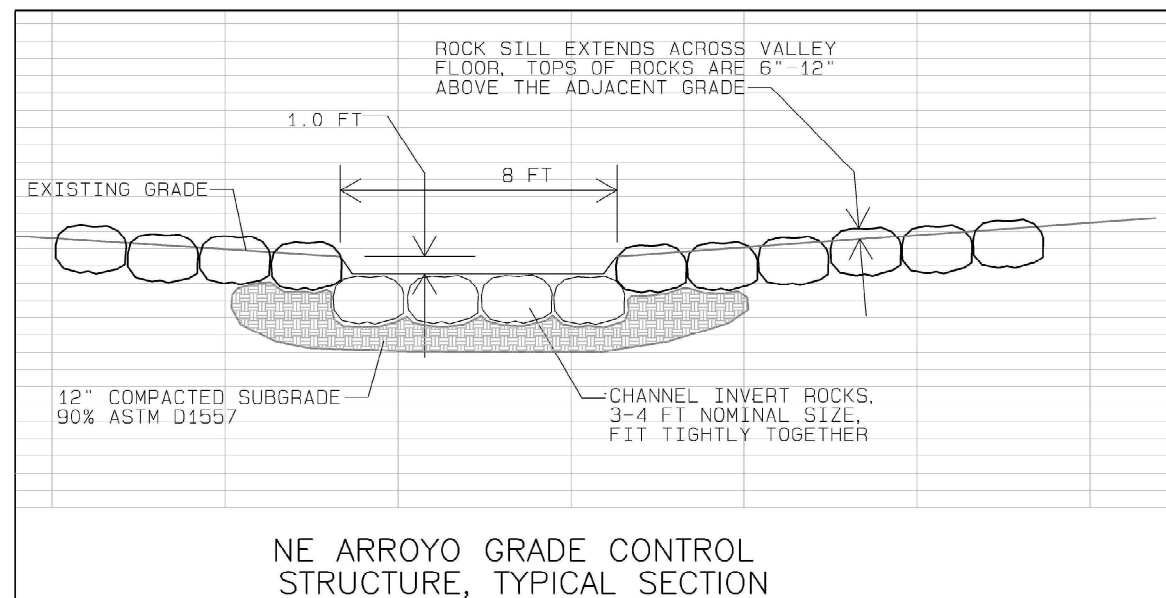
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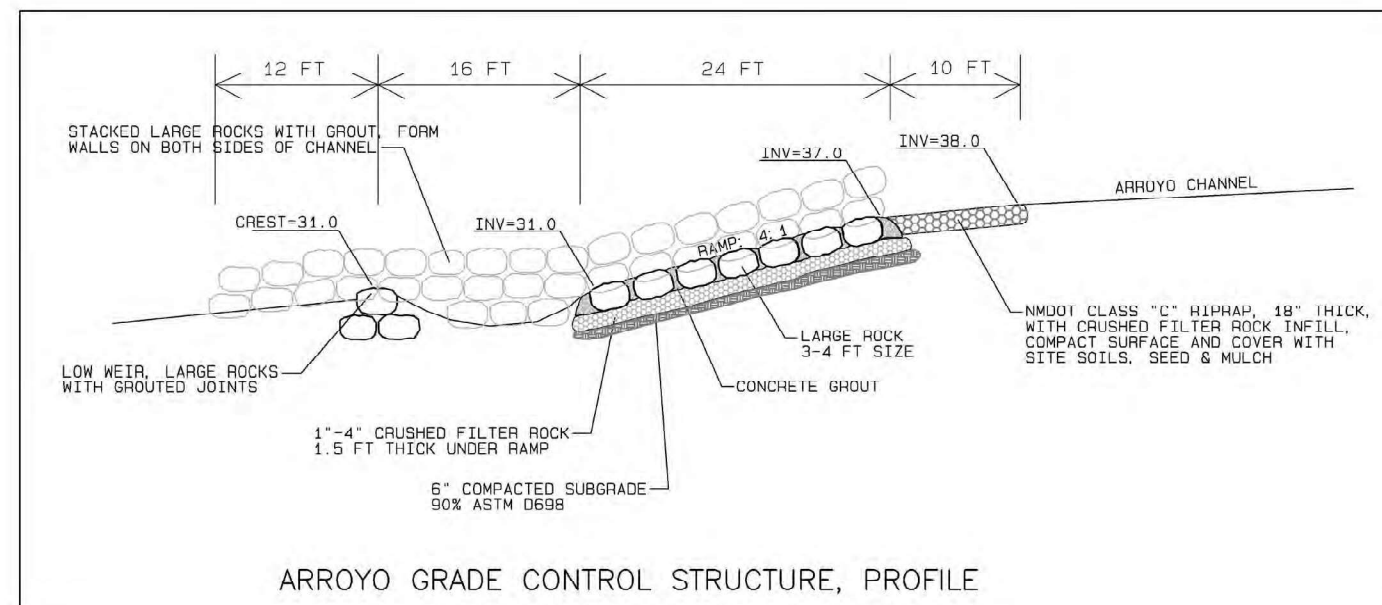
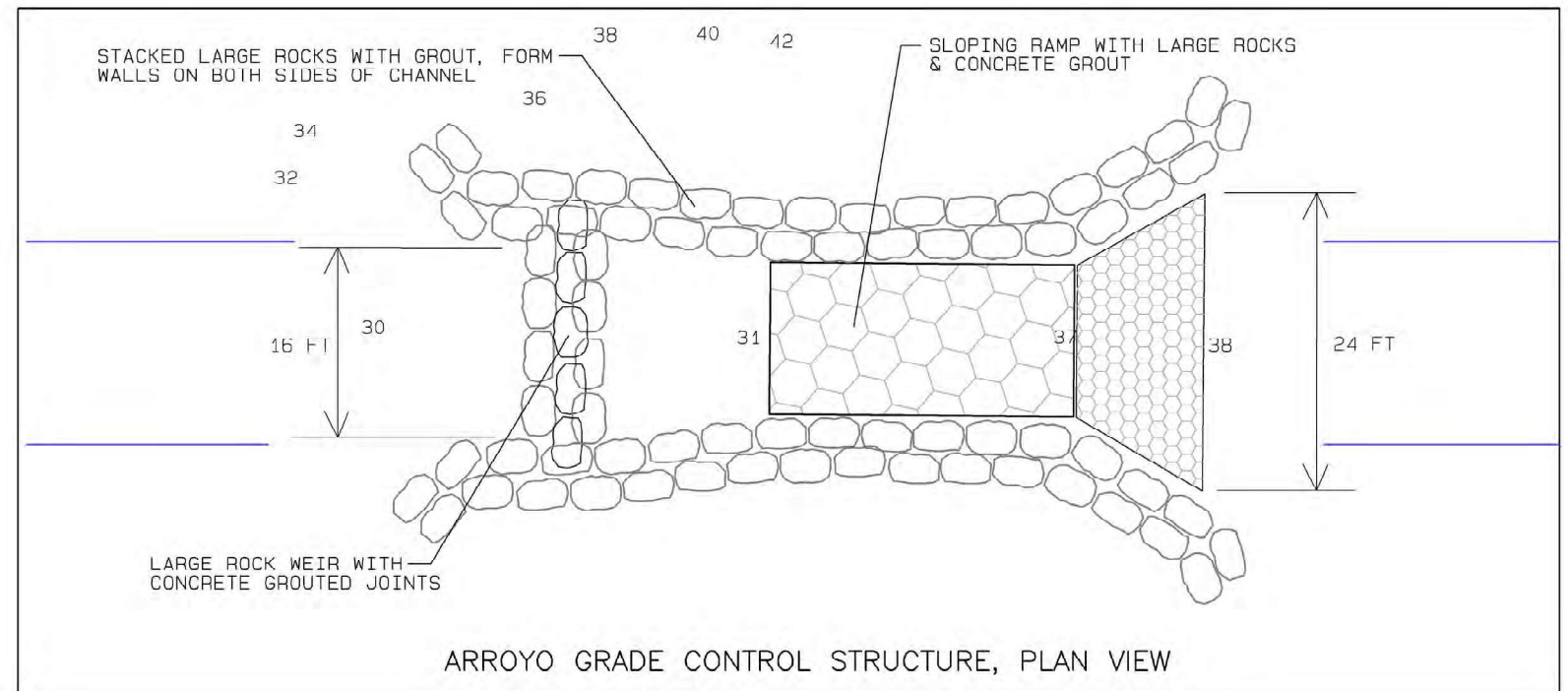
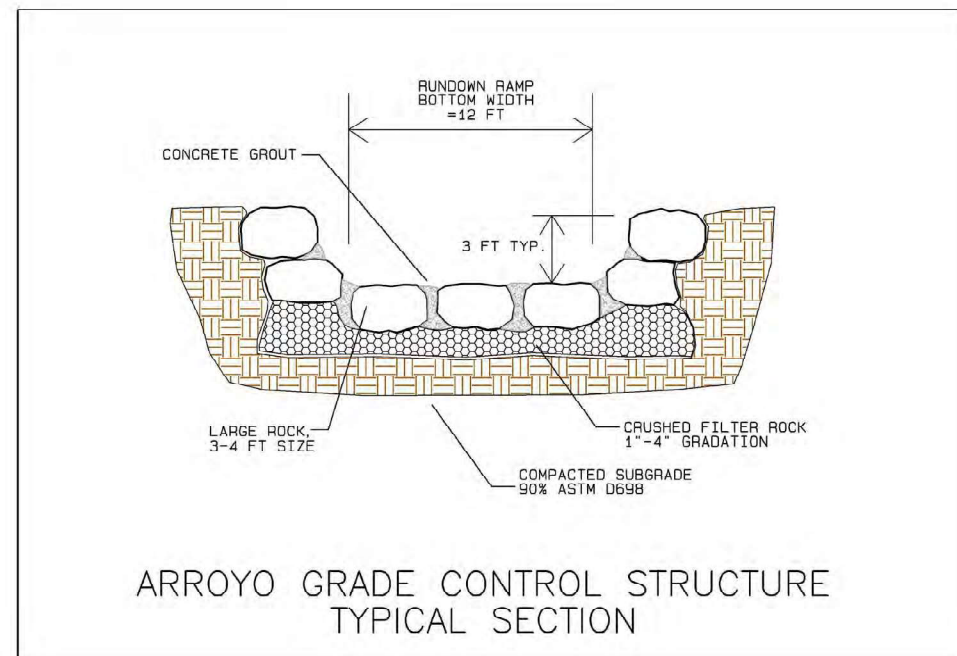


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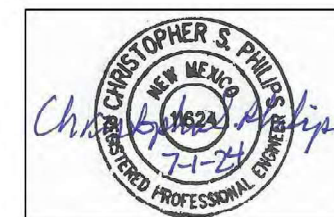
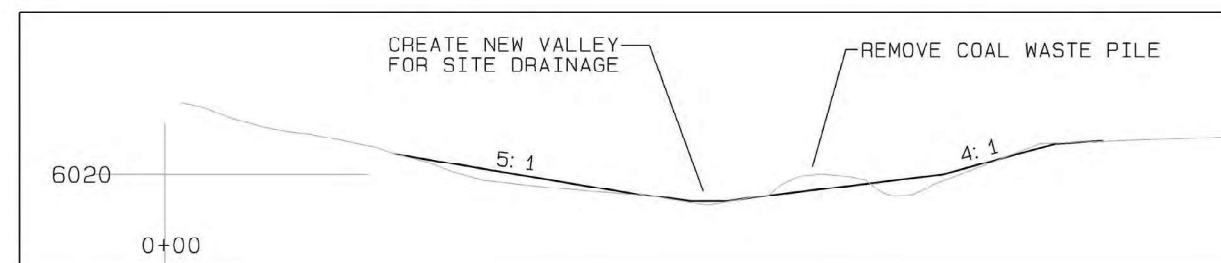
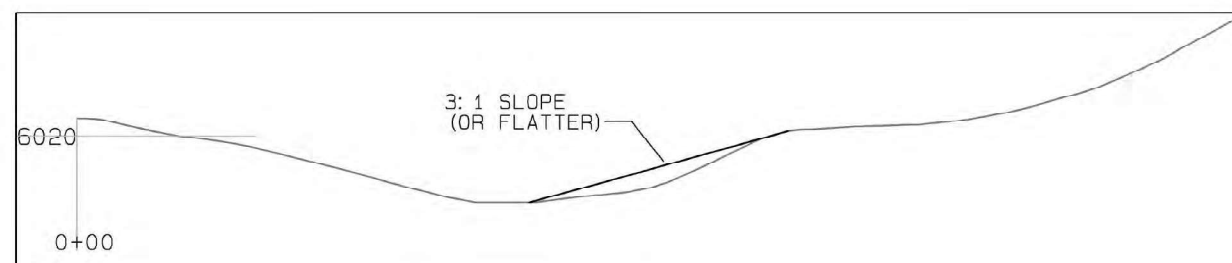
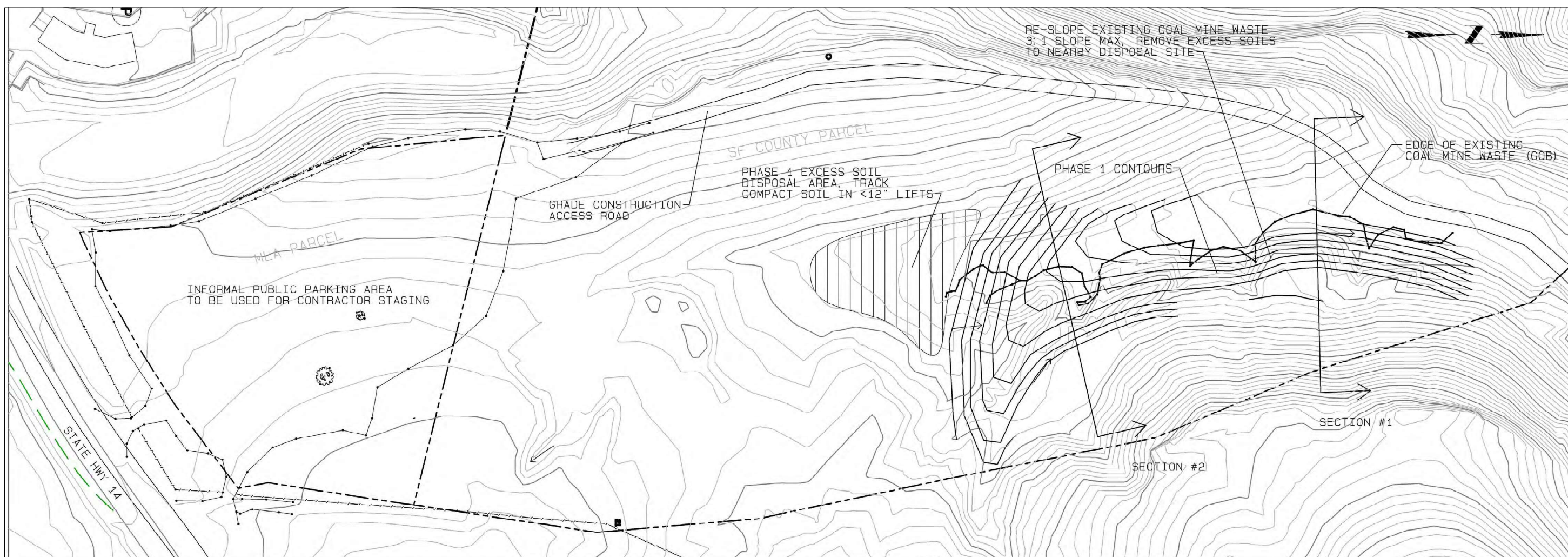
VILLAGE OF MADRID, NM STORM WATER & EROSION CONTROL PROJECT	
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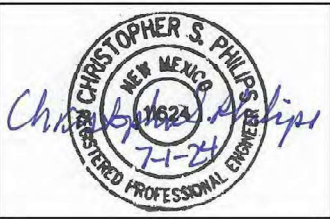
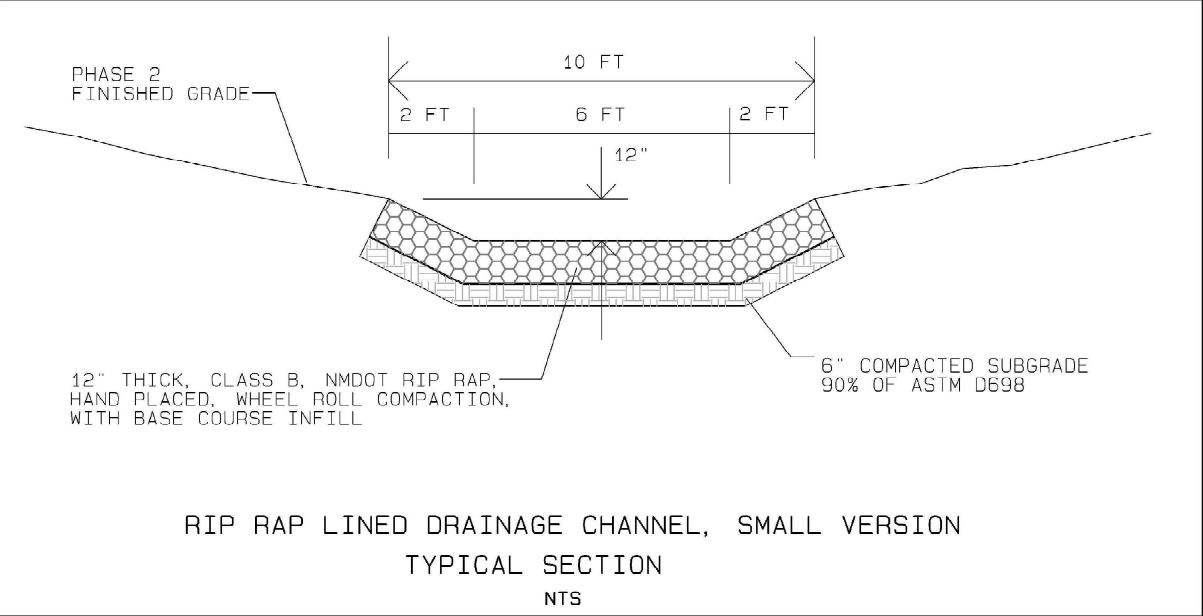
MADRID ARROYO NE ARROYO IMPROVEMENTS CHANNEL DETAILS			
DRAWN C. PHILIPS	DATE ----	DWG. NO. C220	REV. NO. C
SCALE	W.O. NO. 15740.001.003	SHT. 70 of 83	



B	11/4/24		100% FINAL					VILLAGE OF MADRID, NM STORM WATER & EROSION CONTROL PROJECT	CHECKED CP DATE 10/31/24 CLIENT APPROVALS DATE	MADRID ARROYO NE ARROYO IMPROVEMENTS GRADE CONTROL STRUCTURE	DRAWN C.PHILIPS DATE --- DWG. NO. C221 REV. NO. C
C	3/27/25		FOR-BID						DES. ENG. CP DATE 10/31/24		
								MADRID NEW MEXICO PROJ. ENG. CP DATE 10/31/24			
								RIVERBEND ENGINEERING, LLC ALBUQUERQUE NEW MEXICO PROJ. MGR. RE DATE 10/31/24			
								APPROVED			
								ALBUQUERQUE NEW MEXICO APPROVED			
No.	DATE	APPR.	REVISION	No.	DATE	APPR.	REVISION			SHEET 71 of 83	

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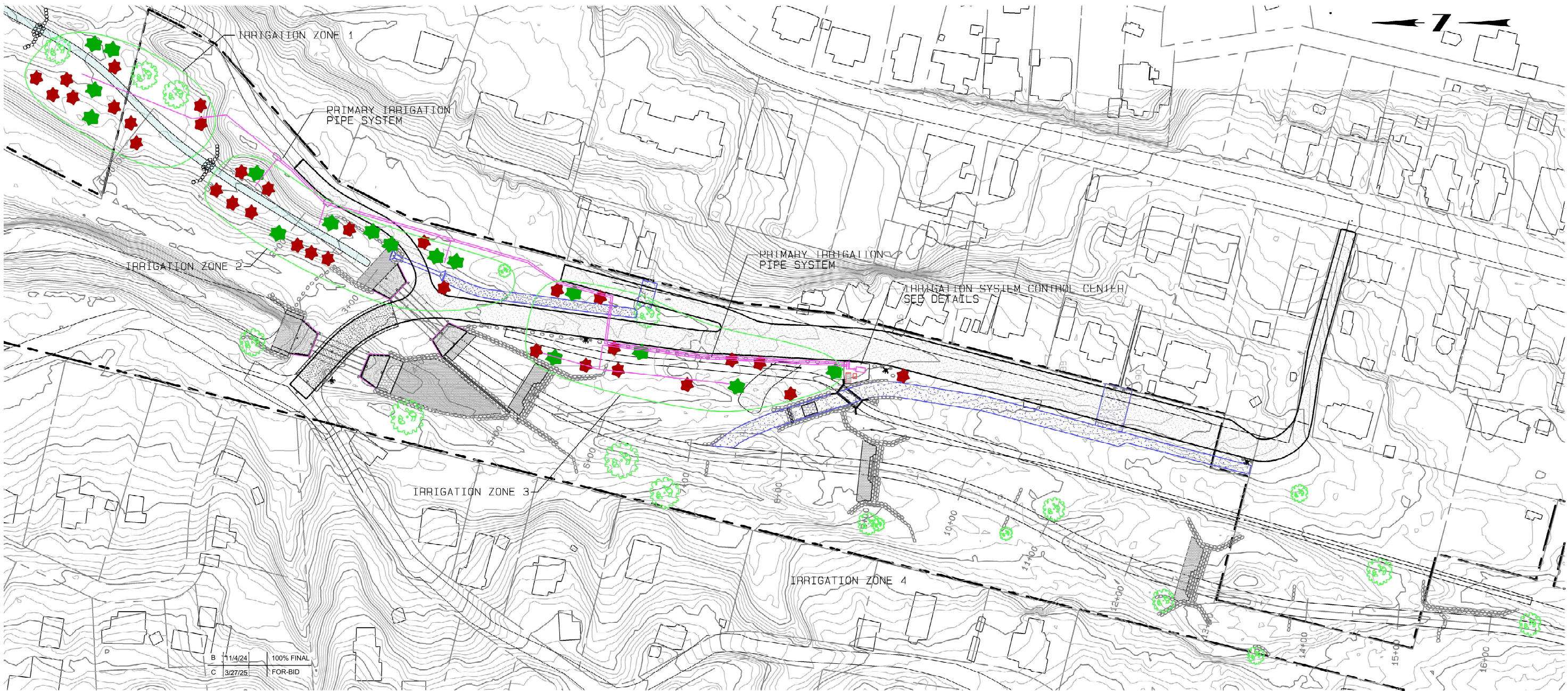
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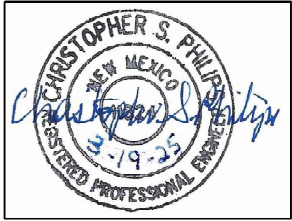
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C	3/27/25	FOR-BID				
NO.	DATE	APPR.	REVISION	NO.	DATE	APPR.

MADRID		NEW MEXICO		ALBUQUERQUE		NEW MEXICO		MADRID ARROYO SOIL DISPOSAL AREA CONSTRUCTION DETAILS		DRAWN C.PHILIPS	DATE ----	DWG. NO. C224	REV. NO. c
VILLAGE OF MADRID, NM STORM WATER & EROSION CONTROL PROJECT		RIVERBEND ENGINEERING, LLC								SCALE		15740.001.003	
CHECKED	CP	DATE	10/31/24	CLIENT APPROVALS	DATE							SHT. 74 of 83	
DES. ENG.	CP	DATE	10/31/24										
PROJ. ENG.	CP	DATE	10/31/24										
PROJ. MGR.	RE	DATE	10/31/24										
APPROVED													
APPROVED													

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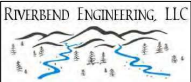


B	11/4/24	100% FINAL
C	3/27/25	FOR-BID



NO.	DATE	APPR.	REVISION	NO.	DATE	APPR.	REVISION

VILLAGE OF MADRID, NM		CHECKED	CP	DATE	10/31/24	CLIENT APPROVALS		DATE
STORM WATER & EROSION CONTROL PROJECT		DES. ENGR.	CP	DATE	10/31/24			
MADRID		PROJ. ENGR.	CP	DATE	10/31/24			
NEW MEXICO		PROJ. MGR.	RE	DATE	10/31/24			
		APPROVED						
		APPROVED						
ALBUQUERQUE								
NEW MEXICO								



DRAWN		C. PHILIPS	DATE	----	DWG. NO.	C226	REV. NO.	C
SCALE				W.O. NO.	15740.001.003	SHT. 76 of 83		

1) SEED QUANTITIES IN THE BID FORM HAVE BEEN INCREASED UNIFORMLY BY 10% OVER NEAT LINE QUANTITIES. THIS IS INTENDED TO ACCOUNT FOR THE APPLICATION OF SEED & MULCH IN MANY SMALL ZONES THAT ARE NOT EXPRESSLY SHOWN ON THE PLANS.

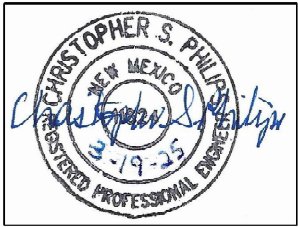
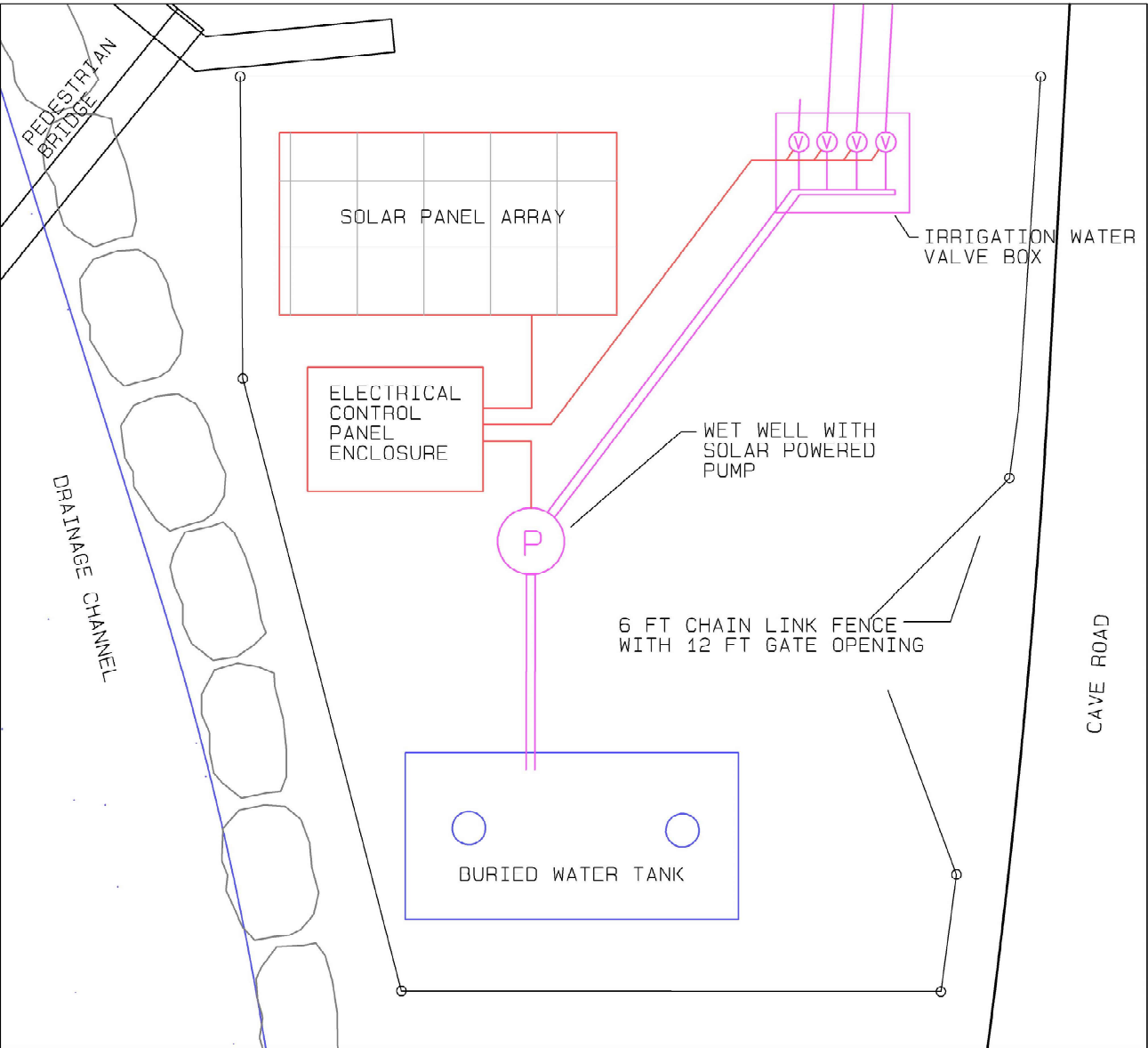
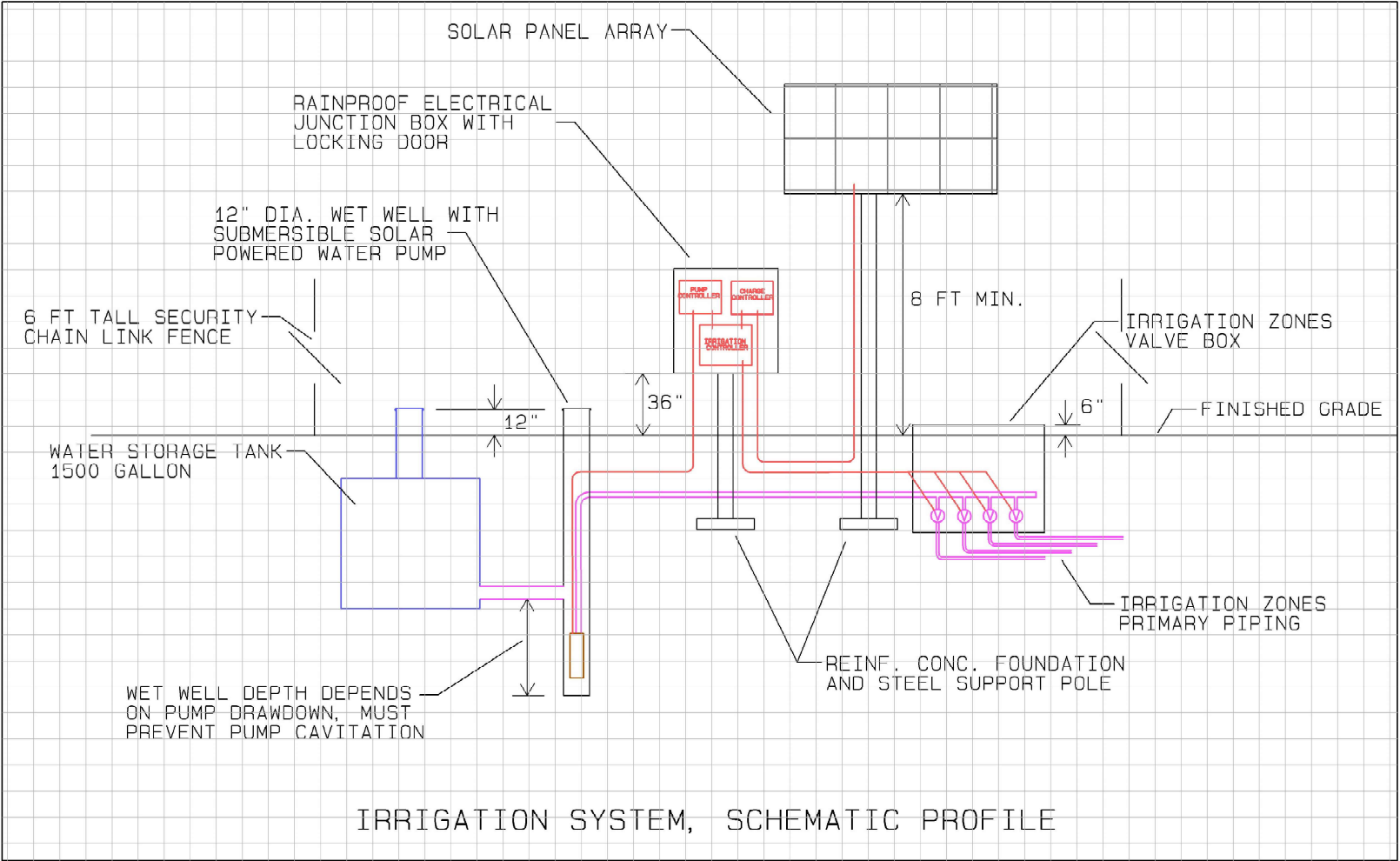
2) A MORE DETAILED VERSION OF THE SEEDING PLAN MAY BE OBTAINED FROM THE ENGINEER UPON REQUEST.

	Type A seeding, upland mix
	Type B seeding, higher soil moisture
	Type C seeding, shade adapted mix
	Type D seeding, mix of types A & B
	Type E seeding, mix of types B & C
	Type F seeding, type A mix, no mulch

A horizontal number line is shown with tick marks at 0, 100, 200, and 400. The segments from 0 to 100, 100 to 200, and 200 to 300 are shaded with horizontal lines. The segment from 300 to 400 is unshaded.

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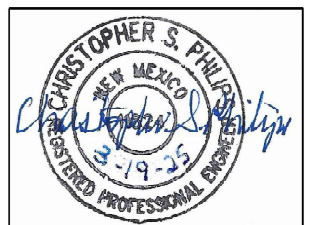
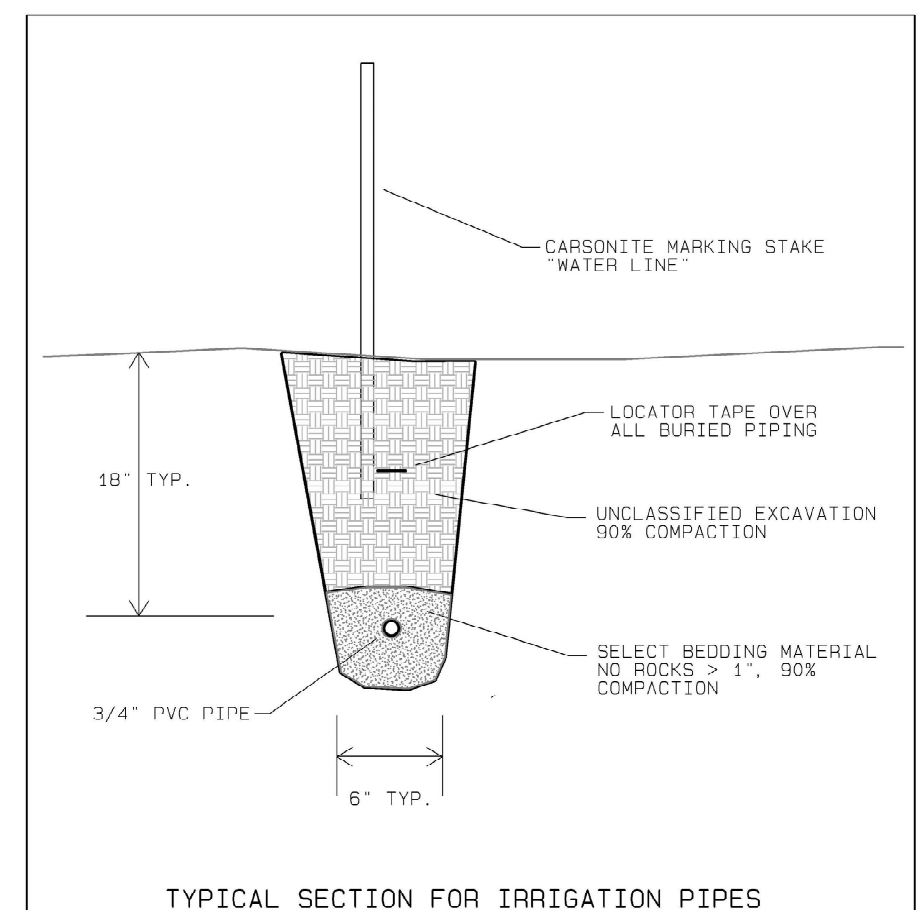
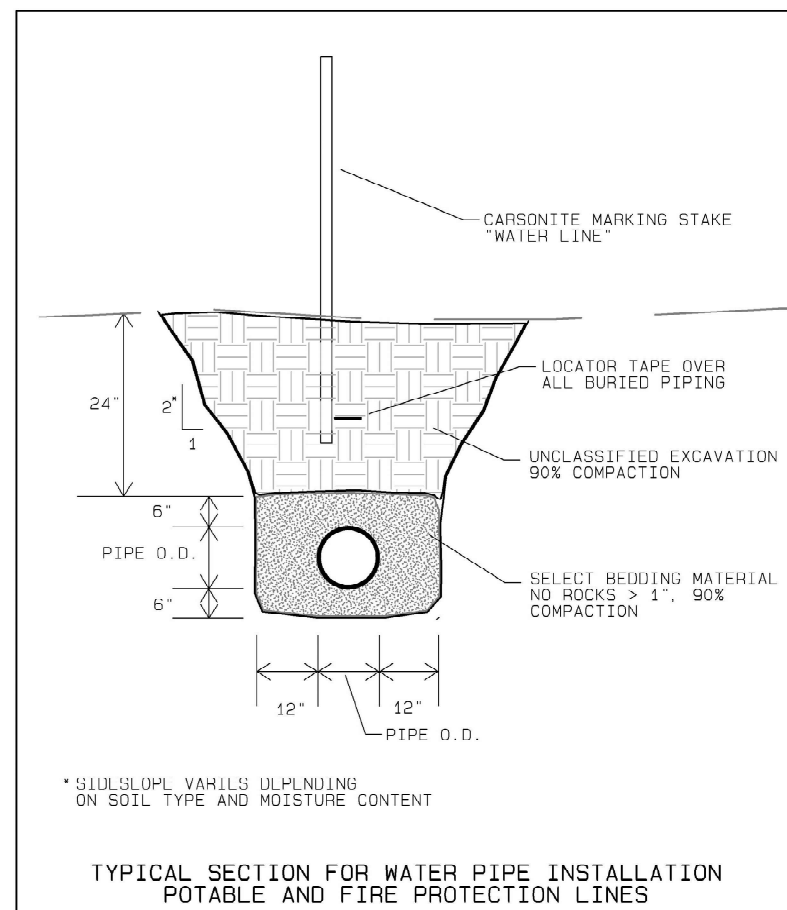
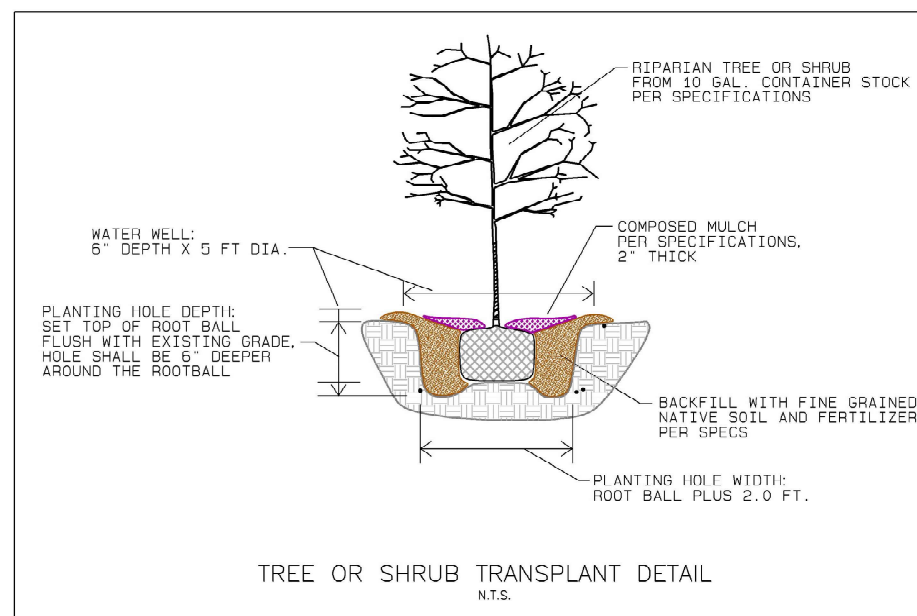
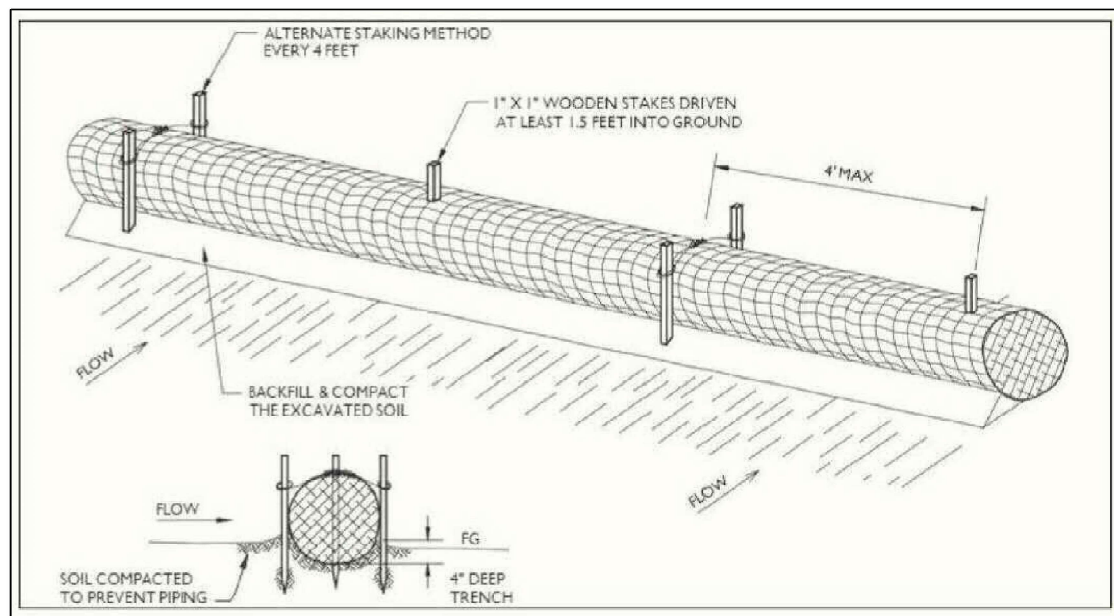


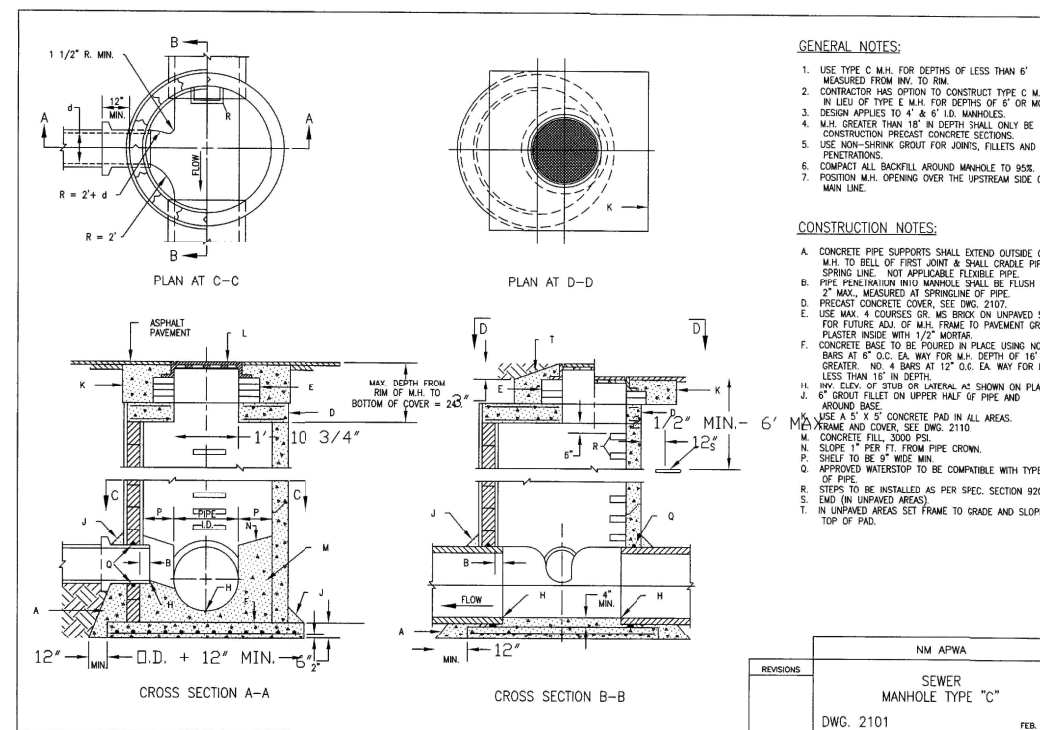
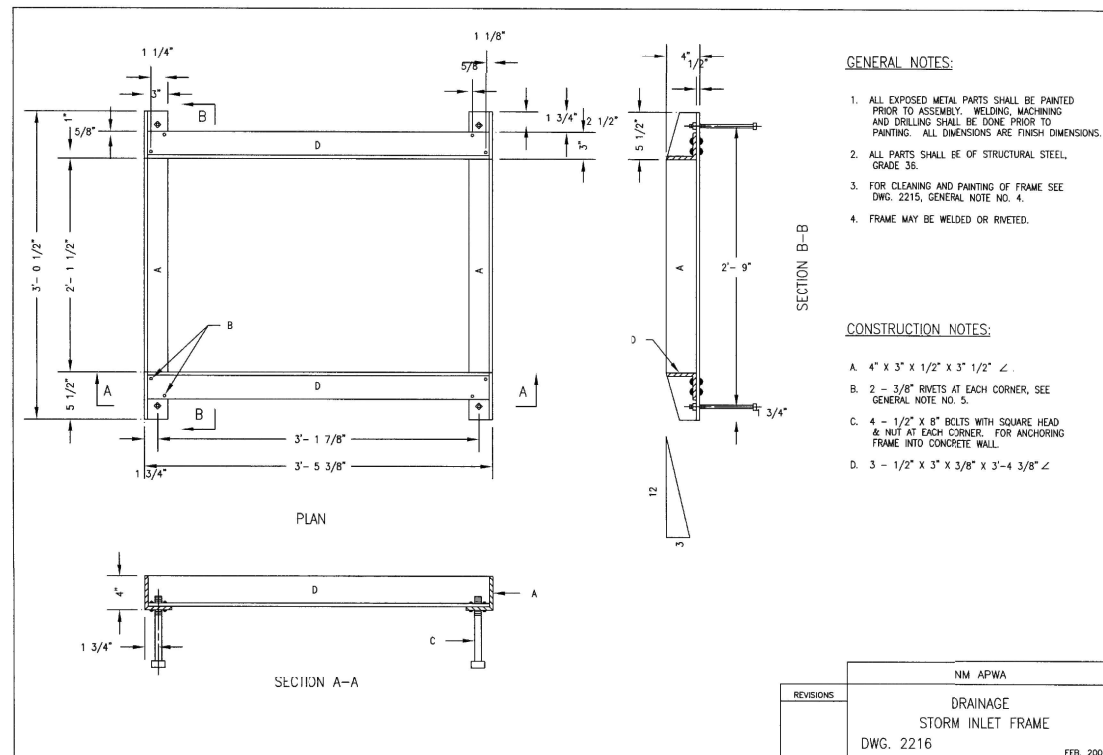
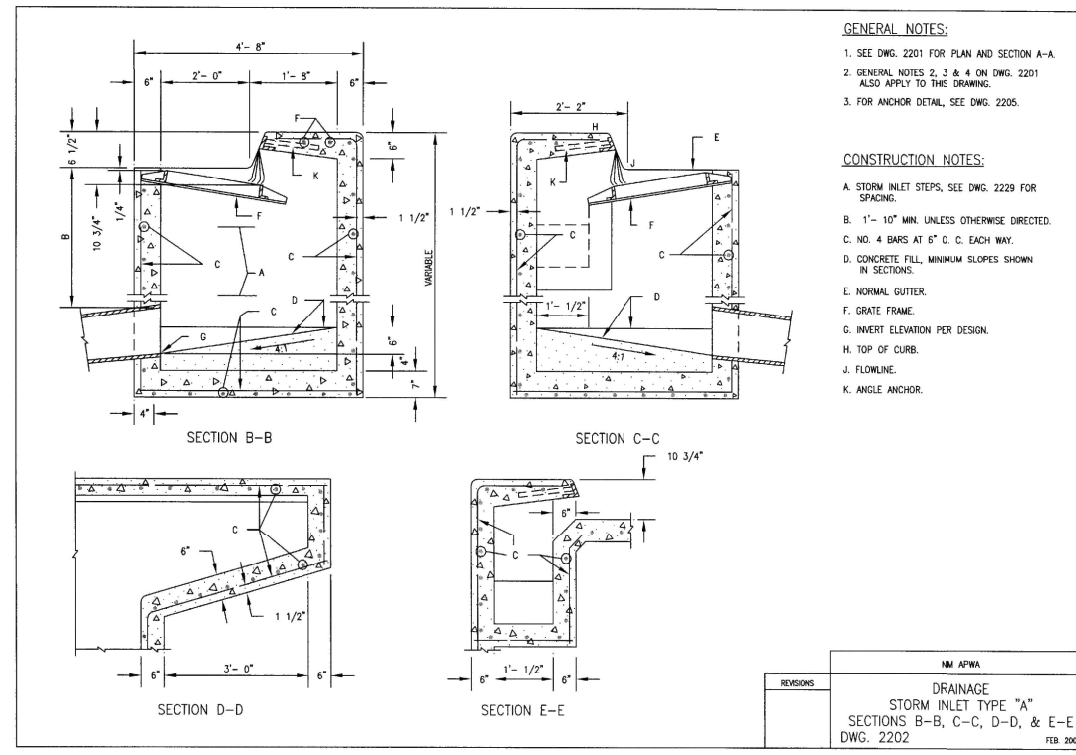
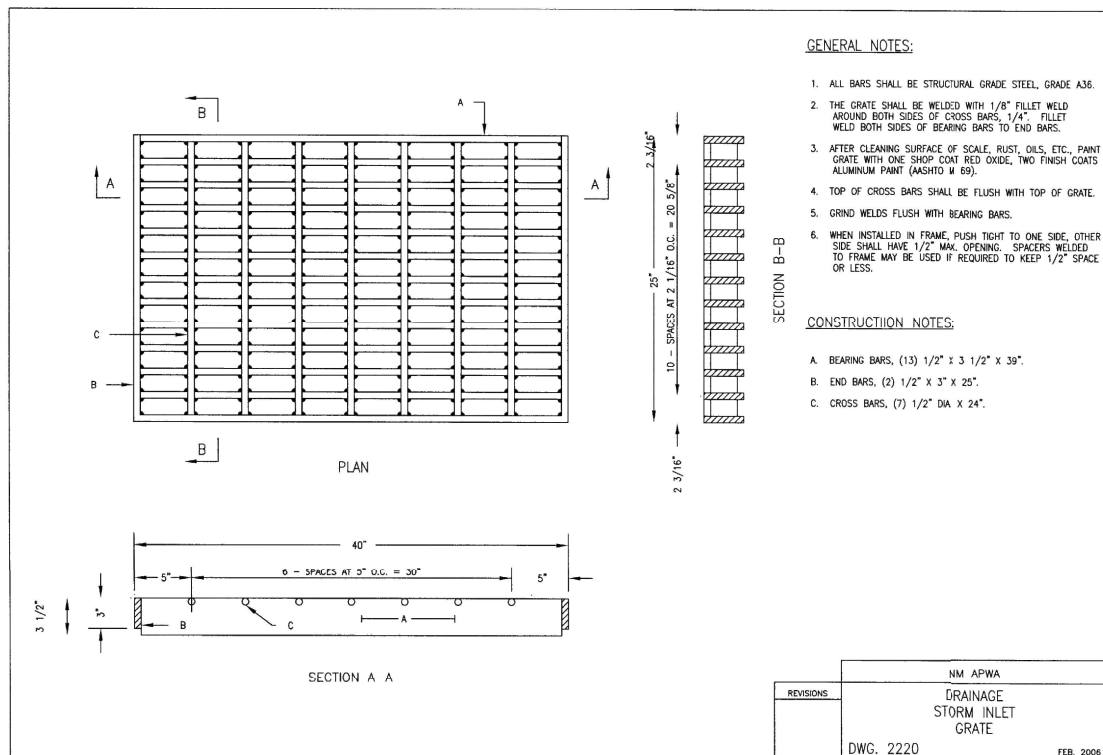
B	11/4/24	100% FINAL			
C	3/27/25	FOR-BID			
NO.	DATE	APPR.	REVISION	NO.	DATE

VILLAGE OF MADRID, NM	
STORM WATER & EROSION CONTROL PROJECT	
MADRID	NEW MEXICO
RIVERBEND ENGINEERING, LLC	
ALBUQUERQUE	
NEW MEXICO	

CHECKED	CP	DATE	10/31/24	CLIENT APPROVALS	DATE
DES. ENGR.	CP	DATE	10/31/24		
PROJ. ENGR.	CP	DATE	10/31/24		
PROJ. MGR.	RE	DATE	10/31/24		
APPROVED					
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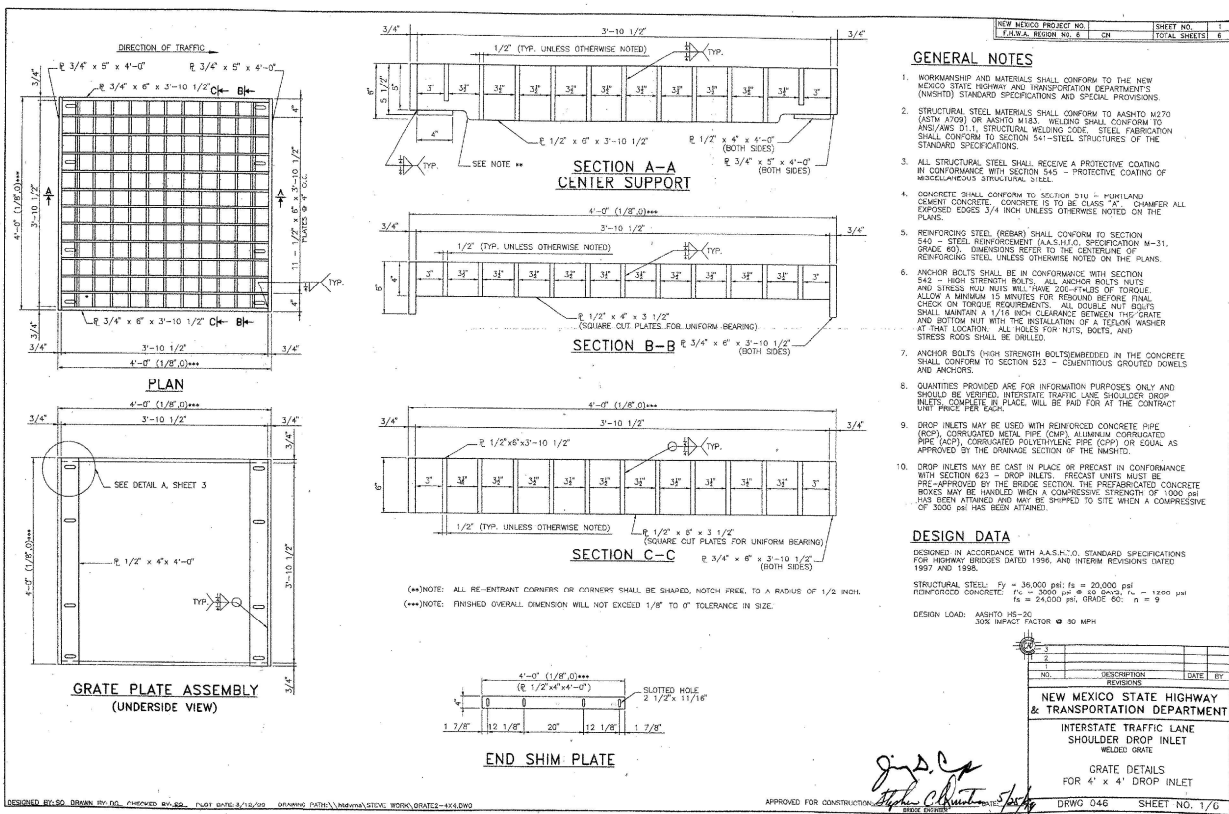
MADRID ARROYO			
IRRIGATION PLAN			
CONTROL SYSTEM			
DRAWN	C.PHILIPS	DATE	----
SCALE		W.O. NO.	15740.001.003
DWG. NO.	C228	REV. NO.	C
SHT. 78 of 83			

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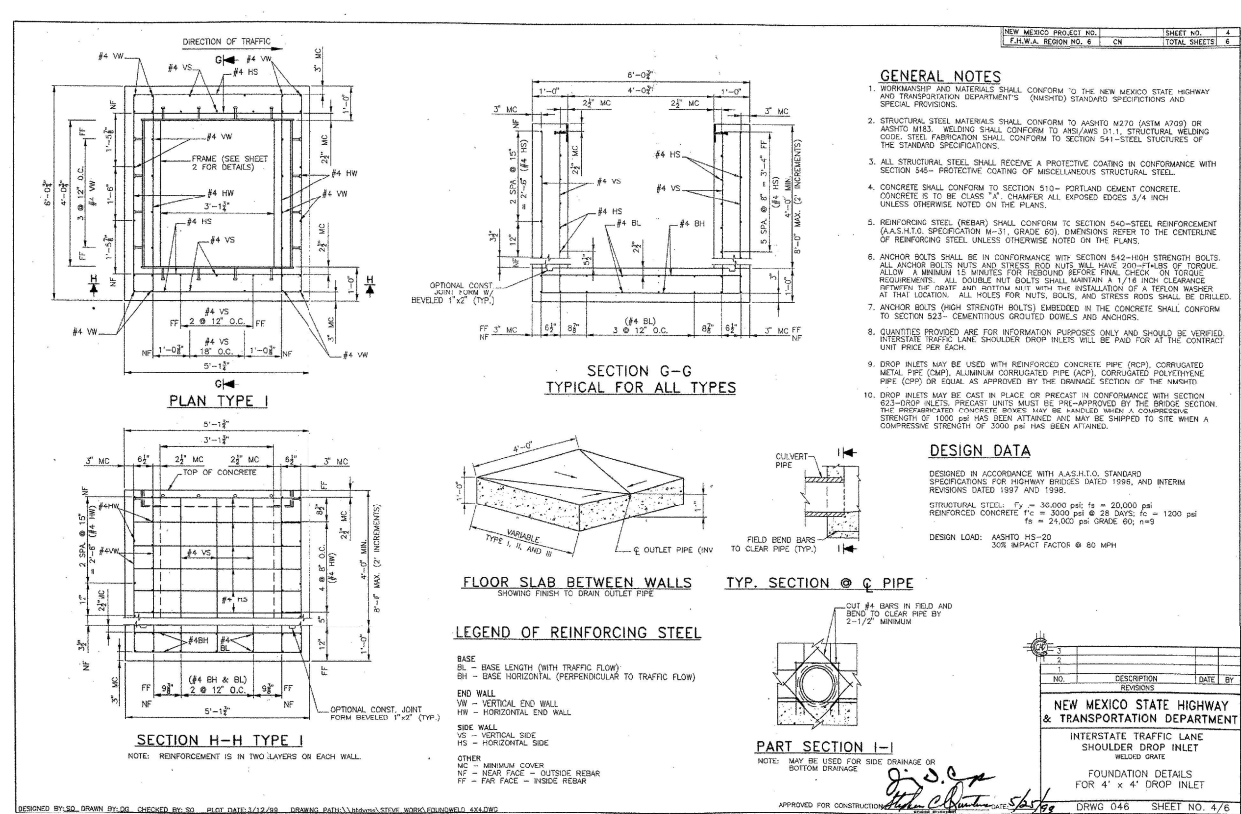


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C	3/27/25		FOR-BID				
NO.	DATE	APPR.	REVISION	NO.	DATE	APPR.	REVISION

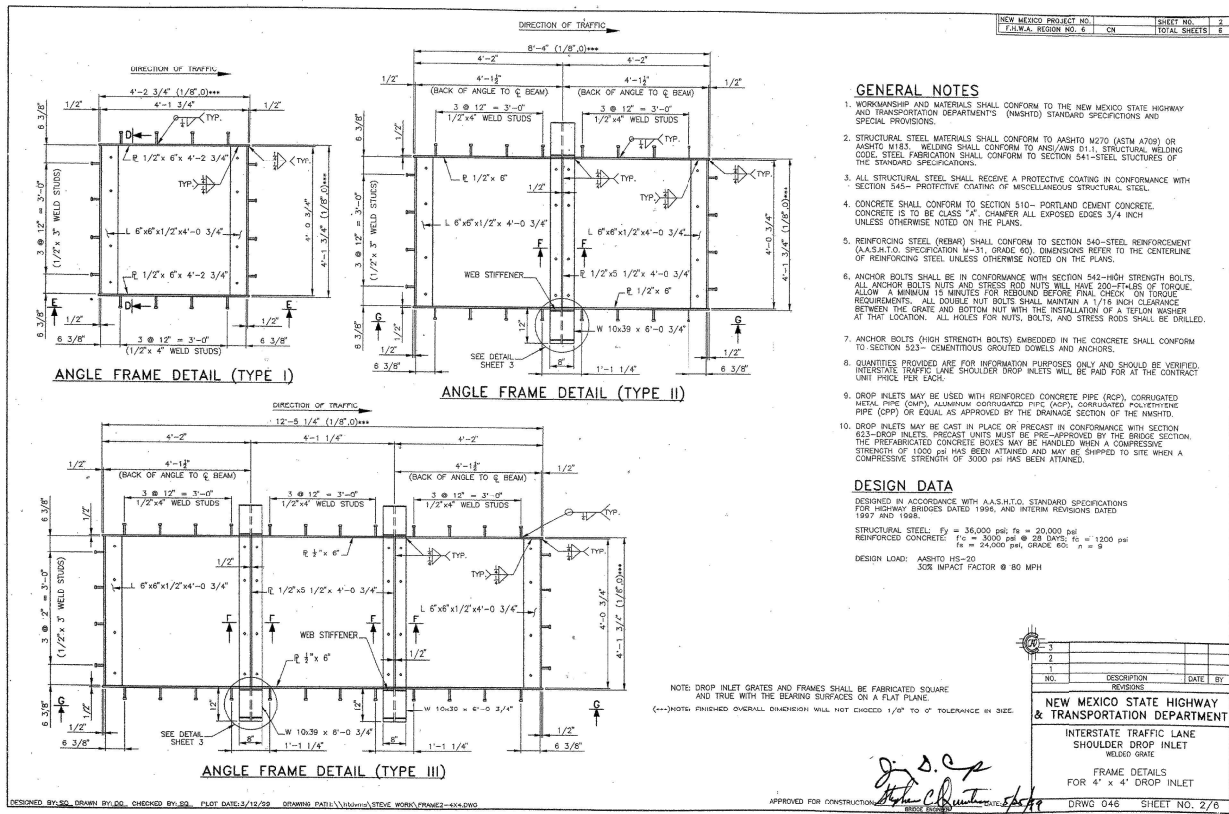
VILLAGE OF MADRID, NM STORM WATER & EROSION CONTROL PROJECT		CHECKED NAH DES. ENG. SLJ PROJ. ENG. RGE PROJ. MGR. TDB	DATE 10/31/24 10/31/24 10/31/24 10/31/24	CLIENT APPROVALS 	DATE 		STANDARD DRAWINGS (1 OF 4)			
MADRID	NEW MEXICO		APPROVED APPROVED	 	 		DRAWN RW SCALE	DATE --- W.O. NO. 15740.001.003	DWS. NO. C601 SHT. 80 of 83	REV. NO. C



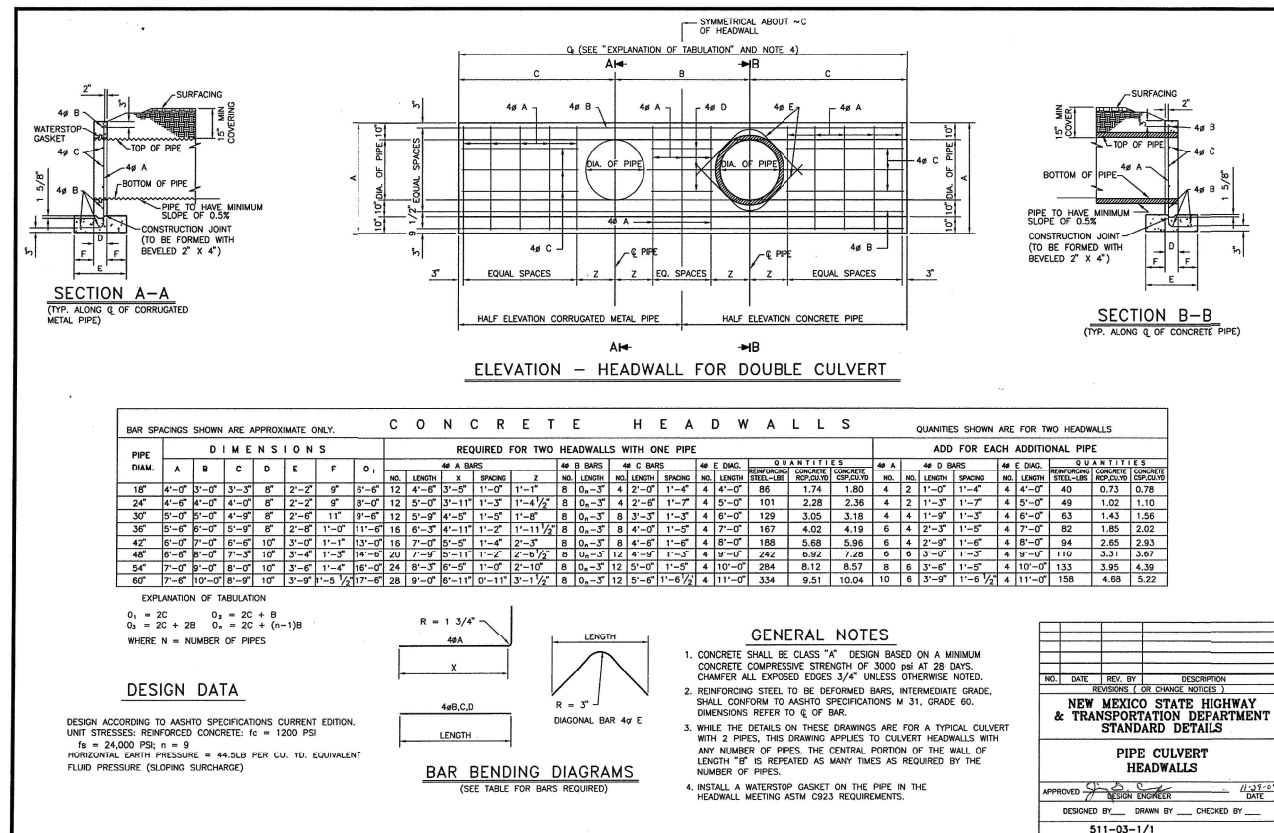
1 SHOULDER DROP INLET NMDOT STANDARD DETAIL (1/3)



2 SHOULDER DROP INLET NMDOT STANDARD DETAIL (2/3)

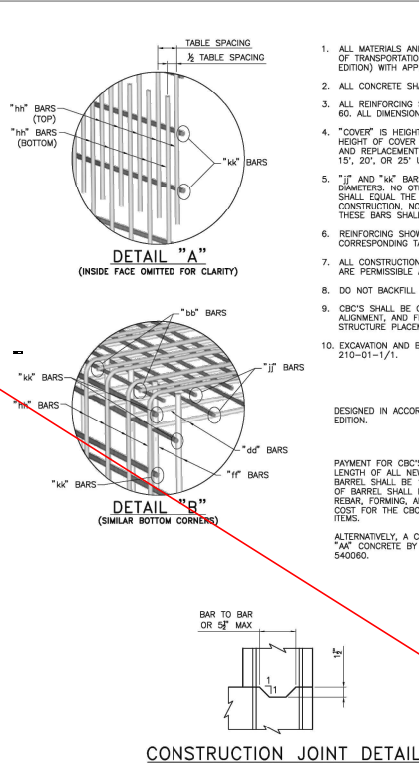
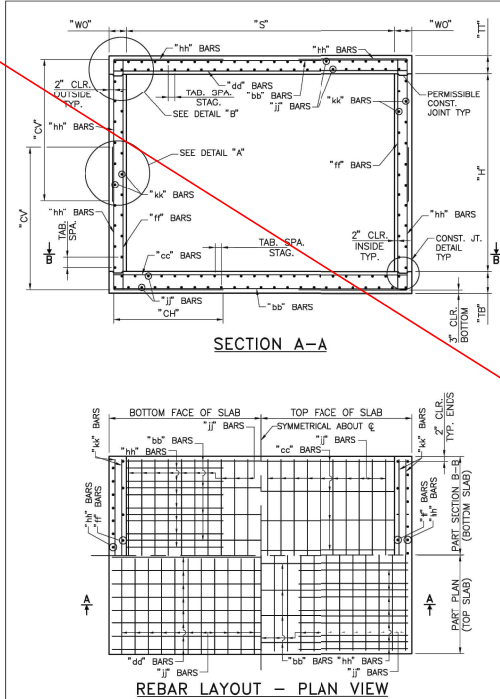


3 SHOULDER DROP INLET NMDOT STANDARD DETAIL (3/3)



4 PIPE CULVERT NMDOT STANDARD DETAIL

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GENERAL NOTES

1. ALL MATERIALS AND WORKMANSHIP SHALL CONFORM TO THE NEW MEXICO DEPARTMENT OF TRANSPORTATION SPECIFICATIONS FOR HIGHWAY AND BRIDGE CONSTRUCTION (CURRENT EDITION) WITH APPLICABLE SPECIAL PROVISIONS.
2. ALL CONCRETE SHALL BE CLASS "AA" (4000 psi). CHAMFER ALL EXPOSED EDGES $\frac{3}{8}$ ".
3. ALL REINFORCING STEEL TO BE DEFORMED BARS, CONFORMING TO AASHTO M-31, GRADE 60. ALL DIMENSIONS REFER TO THE CENTERLINE OF BAR.
4. "COVER" IS HEIGHT OF FILL FROM TOP OF BOX TO THE TOP OF PAVEMENT. ORIGINAL HEIGHT OF COVER MAY NOT BE EXCEEDED IN THE FUTURE OR WILL REQUIRE REMOVAL AND REPLACEMENT WITH PROPER DESIGN FILL CBC IN CASE OF COVER EQUAL TO 10", 15", 20", OR 25" USE HIGHER DESIGN FILL IN CASE OF FUTURE AC OVERLAY.
5. "JT" AND "WK" BARS MAY BE SPLICED WHEN NECESSARY BY LAPPING AT LEAST 40 BAR DIAMETERS. NO OTHER SPLICING OF BARS WILL BE PERMITTED. LENGTH OF THESE BARS SHALL EQUAL THE LENGTH OF BARREL "L" PLUS (2 X "HW") MINUS 4" FOR TOTAL NEW CONSTRUCTION. NOT INCLUDING LAP LENGTH. FOR CULVERT EXTENSION, LENGTH OF THESE BARS SHALL BE "L" PLUS "HW" MINUS 2".
6. REINFORCING SHOWN IS FOR PLACEMENT LOCATION ONLY. USE APPROPRIATE SHEETS AND CORRESPONDING TABLES TO DETERMINE THE REINFORCING REQUIREMENTS AND SPACINGS.
7. ALL CONSTRUCTION JOINTS SHALL BE AS PER DETAIL THIS SHEET. CONSTRUCTION JOINTS ARE PERMISSIBLE AND SHALL BE LOCATED AT WALL/SLAB HORIZONTAL INTERFACE.
8. DO NOT BACKFILL WALLS UNTIL TOP SLAB HAS REACHED 4000 psi DESIGN STRENGTH.
9. CBC'S SHALL BE CONSTRUCTED TO THE SPAN, HEIGHT, NUMBER OF BARRELS, SKEW, ALIGNMENT, AND FLOWLINE GRADE AS SPECIFIED ON THE PLAN AND PROFILE AND STRUCTURE PLACEMENT SECTIONS.
10. EXCAVATION AND BACKFILL OF CBC'S SHALL BE IN ACCORDANCE WITH STANDARD DRAWING 210-01-1/1.

DESIGN

DESIGNED IN ACCORDANCE WITH AASHTO LRFD BRIDGE DESIGN SPECIFICATIONS, THIRD EDITION.

PAYMENT

PAYMENT FOR CBC'S IS BASED ON "LIN. FT." UNIT OF MEASUREMENT FOR THE TOTAL LENGTH OF ALL NEW BARRELS CONSTRUCTED AT THE CENTERLINE OF BARREL. I.E. SINGLE BARREL SHALL BE 1 X 1" AND TRIPLE BARREL SHALL BE 3 X 1" FOR PAYMENT. LENGTH OF BARREL SHALL NOT INCLUDE "HW" WHICH SHALL BE PAID FOR SEPARATELY. CONCRETE, REBAR, FORMING, AND OTHER WORK AND MATERIAL SHALL BE INCLUDED IN THE LIN. FT. COST FOR THE CBC AND NO FURTHER PAYMENT SHALL BE MADE FOR THESE INCIDENTAL ITEMS.

ALTERNATIVELY, A COMPLETE CONCRETE BOX CULVERT MAY BE PAID FOR UNDER CLASS "AA" CONCRETE BY "CU. YD." ITEM 511030 AND GRADE 60 REBAR BY "LBS." ITEM 540060.

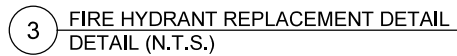
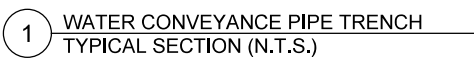
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3	10/31/24	RGE	REVISIONS (OR CHANGE NOTICES)
4	10/31/24	TDB	REVISIONS (OR CHANGE NOTICES)
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SINGLE OPENING BOX CULVERT STRUCTURE DIMENSIONS				GRADE 60 REINFORCING BAR SCHEDULE (BAR SIZE, SPACING AND LENGTH DIMENSIONS)															
DIM	0-10 FT BURIAL DESIGN FILL "A"			"bb"	"cc"	"dd"	"bb" & "cc" & "dd"	"ff"	"hh"			"jj"			"kk"				
SPAN "S" INSIDE	HEIGHT "H" INSIDE	TOP SLAB "T"	BOTTOM SLAB "B"	WALLS OUTER "WO"	SIZE	SPACING	SIZE	SPACING	LENGTH	SIZE	SPACING	LENGTH	SIZE	SPACING	"O" LENGTH	"O" LENGTH	STAGGERED SPACING	SIZE	STAGGERED SPACING
4' 3"	7.5"	8.5"	7.5"	#4 12"	#4 6"	#4 6"	#4 6"	4'-11"	#4 12"	2'-11"	#4 6"	25"	25"	#4 6"	25"	25"	#4 6"	#4 6"	#4 6"
4' 4"	7.5"	8.5"	7.5"	#4 12"	#4 6"	#4 6"	#4 6"	4'-11"	#4 12"	4'-11"	#4 6"	25"	37"	#4 6"	25"	37"	#4 6"	#4 6"	#4 6"
6' 2"	7.5"	8.5"	7.5"	#5 12"	#5 6"	#5 6"	#5 6"	6'-11"	#4 12"	2'-11"	#5 6"	30"	26"	#4 6"	30"	26"	#4 6"	#4 6"	#4 6"
6' 3"	7.5"	8.5"	7.5"	#5 12"	#5 6"	#5 6"	#5 6"	6'-11"	#4 12"	3'-11"	#5 6"	30"	32"	#4 6"	30"	32"	#4 6"	#4 6"	#4 6"
6' 4"	7.5"	8.5"	7.5"	#5 12"	#5 6"	#5 6"	#5 6"	6'-11"	#4 12"	4'-11"	#5 6"	30"	38"	#4 6"	30"	38"	#4 6"	#4 6"	#4 6"
6' 5"	7.5"	8.5"	7.5"	#5 12"	#5 6"	#5 6"	#5 6"	6'-11"	#4 12"	5'-11"	#5 6"	30"	44"	#4 6"	30"	44"	#4 6"	#4 6"	#4 6"
6' 6"	7.5"	8.5"	7.5"	#5 12"	#5 6"	#5 6"	#5 6"	6'-11"	#4 12"	6'-11"	#5 6"	30"	50"	#4 6"	30"	50"	#4 6"	#4 6"	#4 6"
6' 7"	7.5"	8.5"	7.5"	#5 12"	#5 6"	#5 6"	#5 6"	6'-11"	#4 12"	7'-11"	#5 6"	30"	56"	#4 6"	30"	56"	#4 6"	#4 6"	#4 6"
8' 4"	9.0"	9.5"	7.5"	#6 12"	#6 6"	#7 6"	#6 6"	8'-11"	#4 12"	5'-11"	#6 6"	36"	41"	#4 6"	36"	41"	#4 6"	#4 6"	#4 6"
8' 5"	9.0"	9.5"	7.5"	#6 12"	#6 6"	#7 6"	#6 6"	8'-11"	#4 12"	6'-11"	#6 6"	36"	47"	#4 6"	36"	47"	#4 6"	#4 6"	#4 6"
8' 6"	9.0"	9.5"	7.5"	#6 12"	#6 6"	#7 6"	#6 6"	8'-11"	#4 12"	7'-11"	#6 6"	36"	53"	#4 6"	36"	53"	#4 6"	#4 6"	#4 6"
8' 7"	9.0"	9.5"	7.5"	#6 12"	#6 6"	#7 6"	#6 6"	8'-11"	#4 12"	8'-11"	#6 6"	36"	59"	#4 6"	36"	59"	#4 6"	#4 6"	#4 6"
10' 3"	9.0"	9.5"	7.5"	#7 12"	#8 6"	#8 6"	#8 6"	10'-11"	#4 12"	4'-11"	#7 6"	43"	38"	#4 6"	43"	38"	#4 6"	#4 6"	#4 6"
10' 4"	9.0"	9.5"	7.5"	#7 12"	#8 6"	#8 6"	#8 6"	10'-11"	#4 12"	5'-11"	#7 6"	43"	44"	#4 6"	43"	44"	#4 6"	#4 6"	#4 6"
10' 5"	9.0"	9.5"	7.5"	#7 12"	#8 6"	#8 6"	#8 6"	10'-11"	#4 12"	6'-11"	#7 6"	43"	50"	#4 6"	43"	50"	#4 6"	#4 6"	#4 6"
10' 6"	9.0"	9.5"	7.5"	#7 12"	#8 6"	#8 6"	#8 6"	10'-11"	#4 12"	7'-11"	#7 6"	43"	56"	#4 6"	43"	56"	#4 6"	#4 6"	#4 6"
10' 7"	9.0"	9.5"	7.5"	#7 12"	#8 6"	#8 6"	#8 6"	10'-11"	#4 12"	8'-11"	#7 6"	43"	62"	#4 6"	43"	62"	#4 6"	#4 6"	#4 6"
10' 8"	9.5"	10.0"	9.0"	#8 12"	#8 6"	#8 6"	#8 6"	11'-2"	#5 6"	9'-2"	#8 6"	53"	72"	#4 6"	53"	72"	#4 6"	#4 6"	#4 6"
10' 9"	9.5"	10.0"	9.0"	#8 12"	#8 6"	#8 6"	#8 6"	11'-2"	#5 6"	10'-2"	#8 6"	53"	78"	#4 6"	53"	78"	#4 6"	#4 6"	#4 6"
10' 10"	9.5"	10.0"	9.0"	#8 12"	#8 6"	#8 6"	#8 6"	11'-2"	#5 6"	11'-2"	#8 6"	53"	84"	#4 6"	53"	84"	#4 6"	#4 6"	#4 6"
10' 11"	9.5"	10.0"	9.0"	#8 12"	#8 6"	#8 6"	#8 6"	11'-2"	#5 6"	12'-2"	#8 6"	53"	90"	#4 6"	53"	90"	#4 6"	#4 6"	#4 6"
10' 12"	9.5"	10.0"	9.0"	#8 12"	#8 6"	#8 6"	#8 6"	11'-2"	#5 6"	13'-2"	#8 6"	53"	96"	#4 6"	53"	96"	#4 6"	#4 6"	#4 6"
12' 6"	10.0"	11.0"	9.5"	#9 12"	#9 6"	#9 6"	#9 6"	13'-3"	#4 6"	7'-4"	#8 6"	56"	61"	#4 6"	56"	61"	#4 6"	#4 6"	#4 6"
12' 7"	10.0"	11.0"	9.5"	#9 12"	#9 6"	#9 6"	#9 6"	13'-3"	#4 6"	8'-4"	#8 6"	56"	67"	#4 6"	56"	67"	#4 6"	#4 6"	#4 6"
12' 8"	10.0"	11.0"	9.5"	#9 12"	#9 6"	#9 6"	#9 6"	13'-3"	#4 6"	9'-4"	#8 6"	56"	73"	#4 6"	56"	73"	#4 6"	#4 6"	#4 6"
12' 9"	10.0"	11.0"	9.5"	#9 12"	#9 6"	#9 6"	#9 6"	13'-3"	#4 6"	10'-4"	#8 6"	56"	79"	#4 6"	56"	79"	#4 6"	#4 6"	#4 6"
12' 10"	10.0"	11.0"	9.5"	#9 12"	#9 6"	#9 6"	#9 6"	13'-3"	#4 6"	11'-4"	#8 6"	56"	85"	#4 6"	56"	85"	#4 6"	#4 6"	#4 6"
12' 12"	10.0"	11.0"	9.5"	#9 12"	#9 6"	#9 6"	#9 6"	13'-3"	#4 6"	13'-4"	#8 6"	56"	97"	#4 6"	56"	97"	#4 6"	#4 6"	#4 6"
14' 8"	11.0"	12.0"	10.5"	#9 12"	#9 6"	#9 6"	#9 6"	15'-5"	#5 6"	8'-6"	#9 6"	101"	78"	#4 6"	101"	78"	#4 6"	#4 6"	#4 6"
14' 9"	11.0"	12.0"	10.5"	#9 12"	#9 6"	#9 6"	#9 6"	15'-5"	#5 6"	9'-6"	#9 6"	101"	85"	#4 6"	101"	85"	#4 6"	#4 6"	#4 6"
14' 10"	11.0"	12.0"	10.5"	#9 12"	#9 6"	#9 6"	#9 6"	15'-5"	#5 6"	10'-6"	#9 6"	101"	91"	#4 6"	101"	91"	#4 6"	#4 6"	#4 6"
14' 11"	11.0"	12.0"	10.5"	#9 12"	#9 6"	#9 6"	#9 6"	15'-5"	#5 6"	12'-6"	#9 6"	101"	97"	#4 6"	101"	97"	#4 6"	#4 6"	#4 6"
14' 12"	11.0"	12.0"	10.5"	#9 12"	#9 6"	#9 6"	#9 6"	15'-5"	#5 6"	13'-6"	#9 6"	101"	103"	#4 6"	101"	103"	#4 6"	#4 6"	#4 6"
14' 13"	11.0"	12.0"	10.5"	#9 12"	#9 6"	#9 6"	#9 6"	15'-5"	#5 6"	14'-6"	#9 6"	101"	109"	#4 6"	101"	109"	#4 6"	#4 6"	#4 6"
14' 14"	11.0"	12.0"	10.5"	#9 12"	#9 6"	#9 6"	#9 6"	15'-5"	#5 6"	15'-6"	#9 6"	101"	115"	#4 6"	101"	115"	#4 6"	#4 6"	#4 6"

* EXAMPLE OF USE OF THIS TABLE:
PROPOSED STRUCTURE: SINGLE BARREL, 10 FT. SPAN/7 FT. HEIGHT, 600 WGT WITH 2 FT. DEPTH OF COVER.
USE THE FOLLOWING BUILD INFORMATION FROM THE TABLE ABOVE:

DIM	0-10 FT BURIAL DESIGN FILL "A"																					
SPAN "S" INSIDE	HEIGHT "H" INSIDE	TOP SLAB "T"	BOTTOM SLAB "B"	WALLS OUTER "WO"	"bb"		"cc"		"dd"		"bb" & "cc" & "dd"		"ff"		"hh"		"jj"		"kk"			
					SIZE	SPACING	SIZE	SPACING	SIZE	SPACING	LENGTH	SIZE	SPACING	LENGTH	SIZE	SPACING	FOOTY "C" LENGTH	FOOTY "C" LENGTH	SIZE	STAGGERED SPACING	SIZE	STAGGERED SPACING
10' 7"	9.0"	9.5"	7.5"	#7 12"	#8 6"	#8 6"	#8 6"	#8 6"	#8 6"	#8 6"	10'-11"	#4 12"	8'-11"	#7 6"	43"	62"	#4 6"	#4 6"	#4 6"	#4 6"	#4 6"	#4 6"

NO.	DATE	REV. BY	DESCRIPTION
1	10/31/24	NAH	ISSUED FOR CONSTRUCTION
2	10/31/24	SLJ	REVISIONS (OR CHANGE NOTICES)
3	10/31/24	RGE	REVISIONS (OR CHANGE NOTICES)
4	10/31/24	TDB	REVISIONS (OR CHANGE NOTICES)
5	10/31/24	APPROVED	REVISIONS (OR CHANGE NOTICES)
6	10/31/24	APPROVED	REVISIONS (OR CHANGE NOTICES)
7	10/31/24	APPROVED	REVISION



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