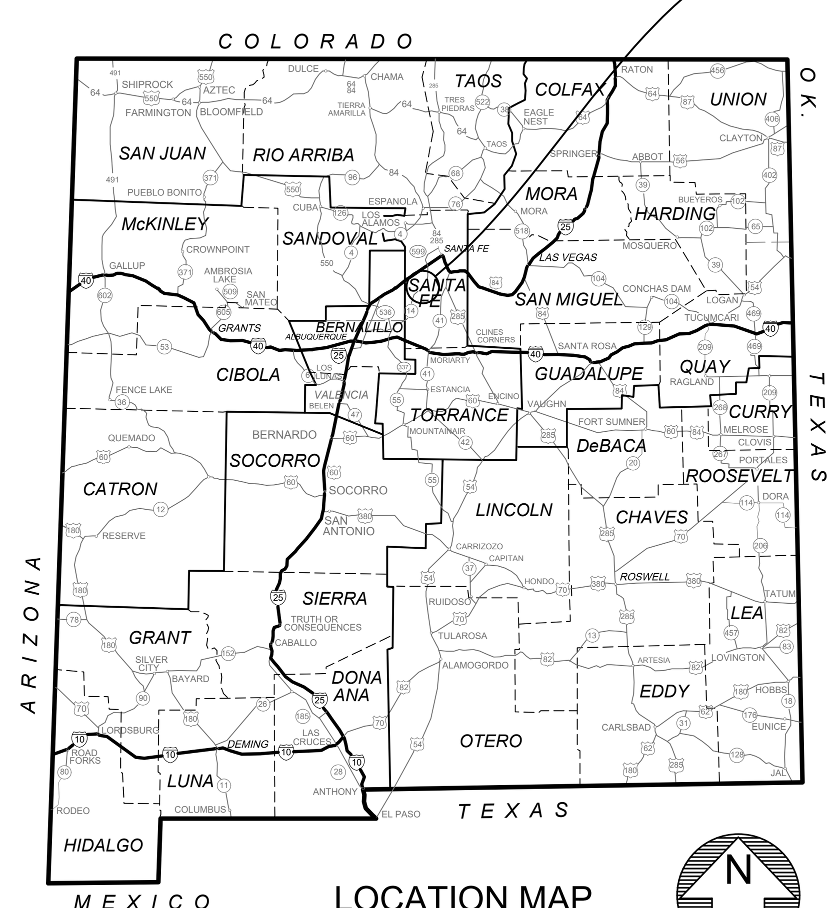
90% MARKUPS

MADRID, NEW MEXICO
STORMWATER & EROSION CONTROL PROJECT
NM EMNRD - AML

WORK IN PROGRESS

90% DESIGN
(REVISION #3)
DEC 2023

PROJECT LOCATION



LOCATION MAP
NOT TO SCALE

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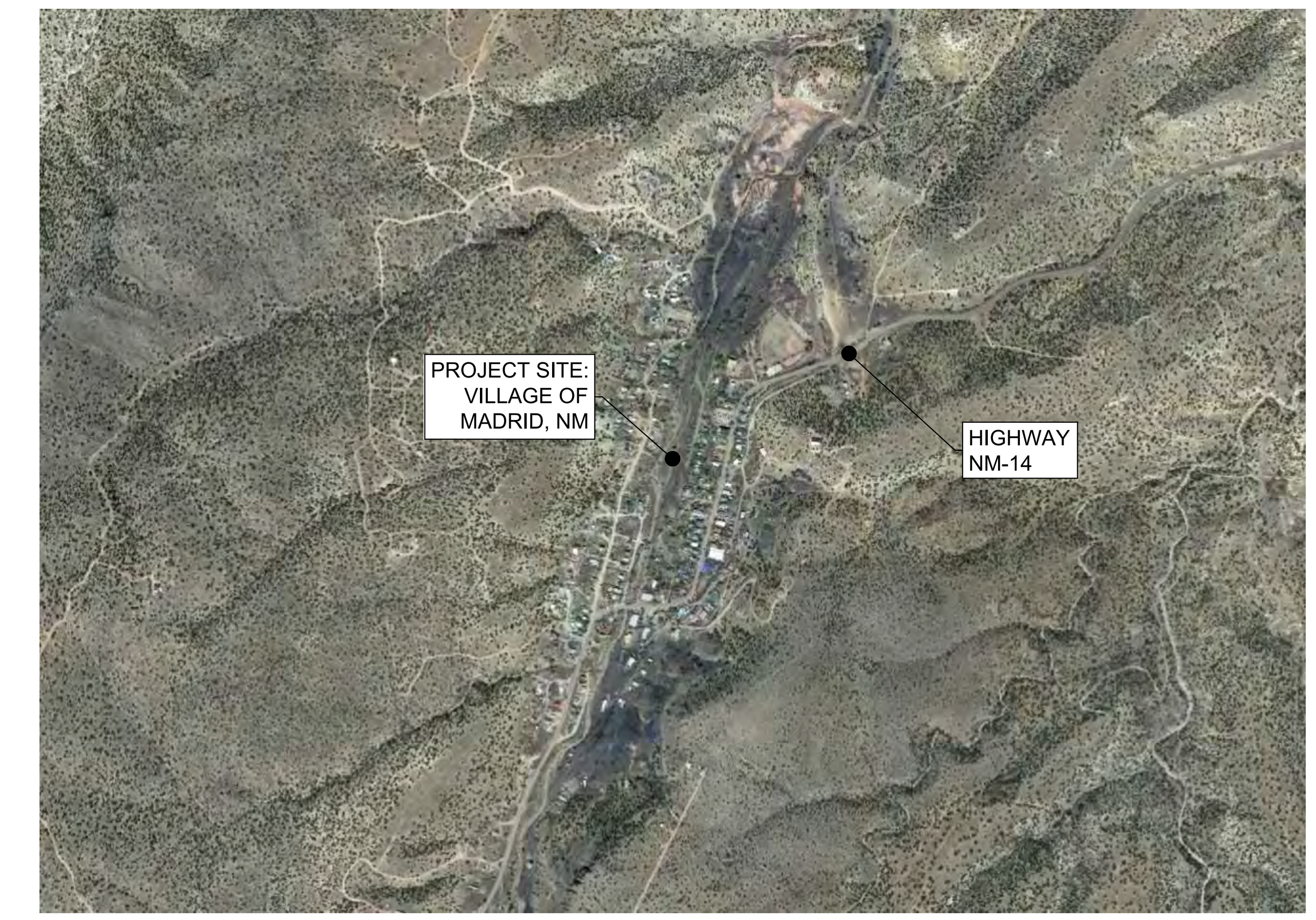

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NOT TO SCALE

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RIVERBEND ENGINEERING, LLC

NO.	DATE	APPR.	REVISION	NO.	DATE	APPR.	REVISION
A	9/24/21		ISSUED FOR REVIEW				
B	10/26/22		NM EMNRD-AML REVISIONS				

VILLAGE OF MADRID, NM
STORM WATER & EROSION CONTROL PROJECT
MADRID NEW MEXICO

WESTON SOLUTIONS
ALBUQUERQUE NEW MEXICO

		DATE	CLIENT APPROVALS	DATE
CHECKED	SC	AUG 23		
DES. ENG.	SC/RGE/AMB	AUG 23		
PROJ. ENG.	RGE	AUG 23		
PROJ. MGR.	SC	AUG 23		
APPROVED				
APPROVED				

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COVER

DRAWN	DATE	DWG. NO.	REV. NO.
RW	AUG 23	G001	B
SCALE	W.O. NO. 15740.001.003	SHT 1 OF 48	

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GENERAL NOTES

1. NEW MEXICO STANDARD SPECIFICATIONS FOR PUBLIC WORKS CONSTRUCTION (APWA NM), 2006 EDITION, AND SUPPLEMENTAL SPECIFICATIONS AND PROVISIONS THERETO SHALL GOVERN CONSTRUCTION OF THIS PROJECT EXCEPT AS OTHERWISE SHOWN. THE NEW MEXICO DEPARTMENT OF TRANSPORTATION (NMDOT) STANDARD SPECIFICATIONS FOR HIGHWAY AND BRIDGE CONSTRUCTION, 2019 EDITION, ARE REFERENCED IN THE DESIGN AND APPLY TO ALL WORK PERFORMED IN THE NM-14 RIGHT OF WAY.

2. WHEN COORDINATES AND ELEVATIONS ARE SHOWN HEREIN, THEY REFER TO NAD83 NEW MEXICO STATE PLANES CENTRAL ZONE AND NAVD 88, U.S. FEET.

3. THE LOCATION OF EXISTING UTILITIES SHOWN ON THE DRAWINGS ARE APPROXIMATE AND NOT VERIFIED BY WESTON. OTHER SUCH UTILITIES MAY EXIST WHERE NONE ARE SHOWN ON THE PLANS. THE CONTRACTOR SHALL VERIFY THE LOCATIONS OF ALL UTILITIES PRIOR TO CONSTRUCTION AND EXERCISE DUE DILIGENCE AND CARE TO INVESTIGATE POTENTIAL UTILITIES. UTILITY LOCATION IS INCIDENTAL TO THE WORK AND NO ADDITIONAL PAYMENT WILL BE MADE.

4. THE CONTRACTOR SHALL DISPOSE OF ALL UNSUITABLE EARTHEN MATERIALS IN AN ENVIRONMENTALLY ACCEPTABLE MANNER AT A LOCATION APPROVED BY THE NEW MEXICO ENERGY, MINING, AND NATURAL RESOURCES DEPARTMENT. SOLID WASTE AND CONSTRUCTION DEMOLITION DEBRIS SHALL BE TRANSPORTED AND DISPOSED AT A NEW MEXICO PERMITTED LANDFILL FACILITY.

5. UNLESS OTHERWISE STATED IN THIS PLAN SET, ALL SIDE SLOPES SHALL BE 3H:1V MAXIMUM, KEEPING SLOPES FLATTER WHEREVER POSSIBLE. NEW SLOPES AND GRADES SHALL TRANSITION SMOOTHLY TO EXISTING GRADES AND EXISTING STRUCTURES IN ALL CASES. THE CONTRACTOR SHALL TRANSITION (WARP) SLOPES WHERE NECESSARY TO STAY WITHIN THE RIGHT OF WAY OR CONSTRUCTION LIMITS, OR TO AVOID EXISTING STRUCTURES.

6. ALL QUANTITIES PROVIDED ON THE PLANS ARE APPROXIMATE AND MUST BE VERIFIED BY THE CONTRACTOR.

SURVEYING NOTES

1. AERIAL IMAGERY AND TOPOGRAPHIC MAPPING COMPLETED BY TRI HYDRO CORPORATION WITH GROUND SURVEY DATA COLLECTED BY DENNIS ENGINEERING COMPANY IN FEBRUARY 2021.

2. SURVEY DATA ARE IN THE NEW MEXICO STATE PLANE COORDINATE SYSTEM (NAD83, CENTRAL ZONE) IN GROUND COORDINATES WITH A SCALE FACTOR OF 1.00029356794 AND NAVD88 VERTICAL DATUM.

MITIGATION MEASURES NOTES

SOIL AND WATER

IN THE EVENT OF AN UNEXPECTED RELEASE OF HAZARDOUS MATERIALS DURING CONSTRUCTION, THE CONTRACTOR WILL BE RESPONSIBLE FOR REPORTING, CLEANUP, AND DISPOSAL OF ANY CONTAMINATED SOILS. CONSTRUCTION CONTRACTORS SHALL BE REQUIRED TO REPORT SPILLS OF GASOLINE, SOLVENTS, AND OTHER CHEMICALS OF REPORTABLE QUANTITIES TO THE CITY OF SANTA FE PROJECT MANAGER. THE CONSTRUCTION CONTRACTOR SHALL PREPARE A STORMWATER POLLUTION PREVENTION PLAN (SWPPP) AND OBTAIN REQUIRED NATIONAL POLLUTANT DISCHARGE ELIMINATION SYSTEM (NPDES) PERMIT COVERAGE FOR CONSTRUCTION ACTIVITY FROM THE USEPA AS REQUIRED UNDER THE CLEAN WATER ACT. BEST MANAGEMENT PRACTICES (BMPS) SHALL BE USED TO PREVENT EROSION AND TRANSPORT OF SEDIMENT. AT THE COMPLETION OF CONSTRUCTION, REVEGETATION AND RESTORATION OF DISTURBED AREAS WILL BE CONDUCTED. REVEGETATION SHALL INCLUDE MULCHING AND SEEDING OF EXPOSED AREAS WITH SPECIFIED SEED MIX PROVIDED IN THE SUPPLEMENTAL SPECIFICATIONS. UPON COMPLETION OF CONSTRUCTION, TEMPORARY EROSION AND SEDIMENT CONTROLS WILL BE REMOVED ONCE THE PROJECT AREA IS STABILIZED.

AIR QUALITY

EXPOSED AND DISTURBED SOIL SURFACES SHALL BE WATERED AT A FREQUENCY SUFFICIENT TO AVOID FUGITIVE DUST. EARTHMOVING AND OTHER DUST-PRODUCING ACTIVITIES WILL BE SUSPENDED DURING PERIODS OF HIGH WINDS, WHEN DUST CONTROL EFFORTS ARE UNABLE TO PREVENT FUGITIVE DUST. STOCKPILES OF DEBRIS, SOIL, SAND, OR OTHER MATERIALS WILL BE WATERED OR COVERED. ANY MATERIALS TRANSPORTED ON-SITE BY TRUCK SHALL BE COVERED. SOIL DISTURBANCE WILL BE MINIMIZED AND NATIVE VEGETATION AND TOPSOIL WILL BE RETAINED WHERE POSSIBLE. CONSTRUCTION CONTRACTORS SHALL ENSURE THAT CONSTRUCTION EQUIPMENT AND VEHICLES USE APPROVED EMISSION CONTROL DEVICES AND LIMIT UNNECESSARY IDLING.

VEGETATION AND WILDLIFE

AS NEEDED, EXPOSED DISTURBED AREAS WITHIN THE PROJECT AREA SHALL BE REPLANTED WITH CERTIFIED WEED-FREE NATIVE VEGETATION AFTER CONSTRUCTION. TRENCHES SHALL BE BURIED CONCURRENTLY TO REDUCE TRAPPING SMALL MAMMALS AND REPTILES.

CULTURAL RESOURCES

IF CULTURAL MATERIALS OR HUMAN BURIALS ARE ENCOUNTERED DURING CONSTRUCTION ACTIVITIES, WORK IN THE AREA SHALL STOP, AND THE OWNER SHALL BE NOTIFIED.

CONSTRUCTION ACTIVITIES

ALTERNATIVE PARKING AREAS WILL BE IDENTIFIED DURING CONSTRUCTION. CONSTRUCTION CONTRACTORS WILL BE REQUIRED TO LIMIT CONSTRUCTION EQUIPMENT AND VEHICLE USE TO DAYTIME HOURS. CONSTRUCTION CONTRACTORS SHALL BE REQUIRED TO ENSURE THAT CONSTRUCTION EQUIPMENT AND OTHER EQUIPMENT HAVE WORKING MUFFLERS AND OTHER NOISE CONTROL DEVICES.

LEGEND

- EXISTING MAJOR CONTOUR
- EXISTING MINOR CONTOUR
- EXISTING FENCE
- PROPOSED RETAINING WALL
- SLOPE LIMITS
- BUILDING
- PROPOSED CULVERT
- RIPRAP
- CONCRETE
- PLUNGE POOL
- EXCLUSION ZONE

NO.	DATE	APPR.	REVISION	NO.	DATE	APPR.	REVISION
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VILLAGE OF MADRID, NM
STORM WATER & EROSION CONTROL PROJECT

MADRID NEW MEXICO

WESTON SOLUTIONS

ALBUQUERQUE NEW MEXICO

		DATE	CLIENT APPROVALS	DATE
CHECKED	SC	AUG 23		
DES. ENG.	SC/RGE/AMB	AUG 23		
PROJ. ENG.	RGE	AUG 23		
PROJ. MGR.	SC	AUG 23		
APPROVED				
APPROVED				

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GENERAL NOTES

DRAWN	DATE	DWG. NO.	REV. NO.
RW	AUG 23	G002	B
SCALE	W.O. NO. 15740.001.003	SHT. 2 OF 48	

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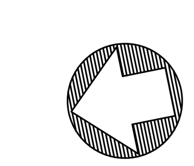

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VILLAGE OF MADRID, NM
STORM WATER & EROSION CONTROL PROJECT

MADRID — NEW MEXICO

WESTON SOLUTIONS

ALBUQUERQUE — NEW MEXICO

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PROJ. MGR.	SC	AUG 23		
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KEY MAP

DRAWN	DATE	DWG. NO.	REV. NO.
RW	AUG 23	G003	B

SCALE	W.O. NO.	SHT	OF
	15740.001.003	3	48

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PROJ. MGR.	SC	AUG 23		
APPROVED				
APPROVED				

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ICE HOUSE ROAD/MADRID ARROYO AREA SITE LAYOUT

DRAWN	DATE	DWG. NO.	REV. NO.
RW	AUG 23	G004	B
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VILLAGE OF MADRID, NM
STORM WATER & EROSION CONTROL PROJECT

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PROJ. MGR.	SC	AUG 23		
APPROVED				
APPROVED				

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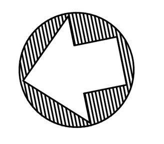
FIREHOUSE LANE AREA
SITE LAYOUT

DRAWN	DATE	DWG. NO.	REV. NO.
RW	AUG 23	G005	B
SCALE	W.O. NO. 15740.001.003	SHT. 5 OF 48	



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EXCLUSION ZONES

DRAWN	DATE	DWG. NO.	REV. NO.
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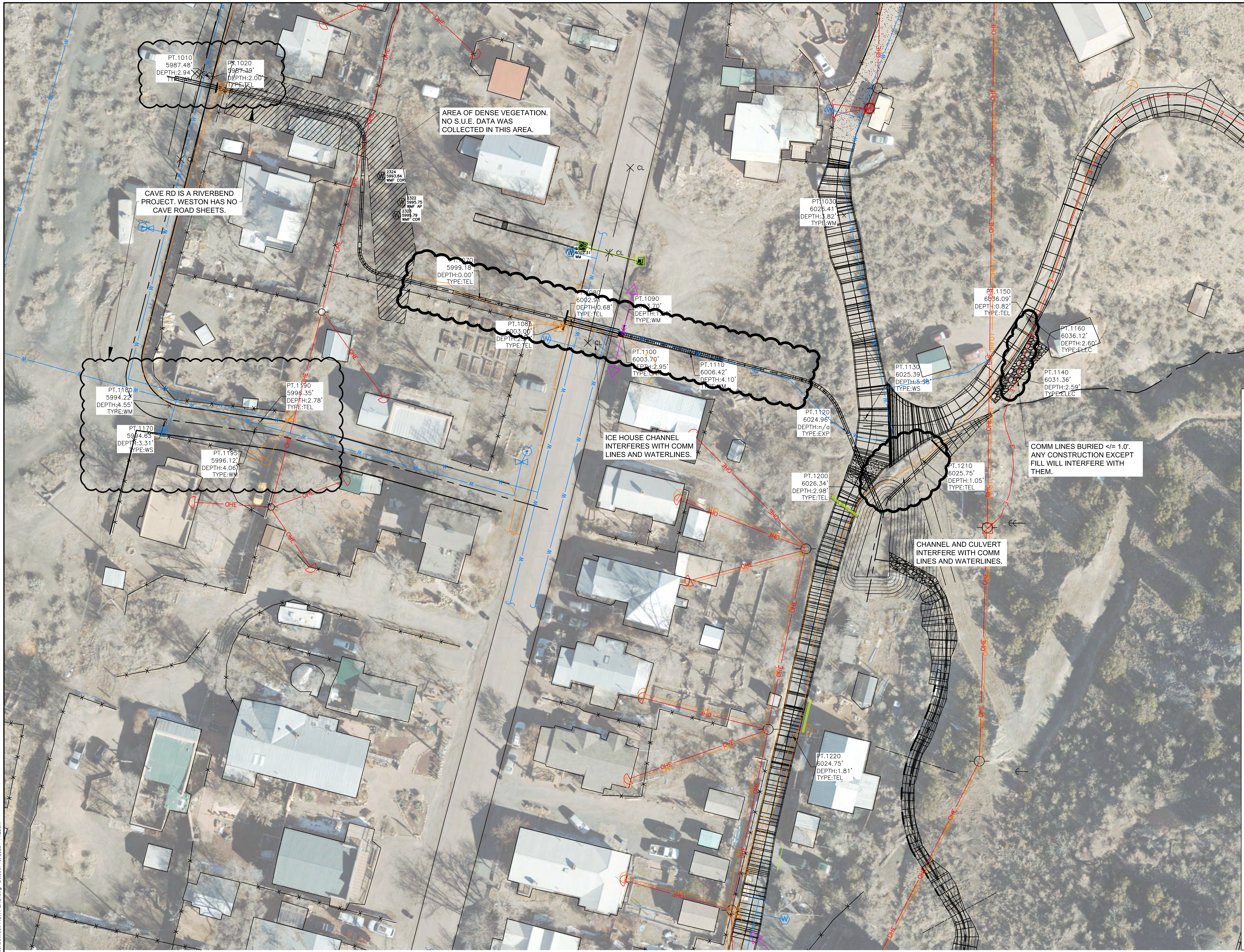

LEGEND

UTILITY LINETYPES

- ELECTRIC LINE
- OVERHEAD ELECTRIC LINE
- TELEPHONE LINE
- OVERHEAD TELEPHONE LINE
- FIBER OPTIC TELEPHONE LINE
- STORM DRAINAGE LINE
- WATER LINE
- UNKNOWN UTILITY LINE
- ASCE 38 INVESTIGATION BOUNDARY LINE
- END/ LOSS OF SIGNAL
- LIMITS OF ASCE 38 INVESTIGATION
- CHANGE OF ASCE 38 QUALITY LEVEL
- END OF UTILITY LINE
- LINE LEADS TOWARD BUILDING/INTO PRIVATE PROPERTY

COP-36"VCP-QLD — (UTILITY OWNER)-(SIZE AND/OR TYPE)-(ASCE QUALITY LEVEL)

UTILITY SYMBOLS

- ELECTRIC CABINET
- ELECTRIC JUNCTION BOX
- ELECTRIC MANHOLE
- ELECTRIC METER
- ELECTRIC TRANSFORMER
- LIGHT - ARM
- TELEPHONE CABINET
- TELEPHONE MANHOLE
- TELEPHONE RISER
- CATCH BASIN
- STORM DRAIN MANHOLE
- FIRE HYDRANT
- WATER METER
- WATER VALVE
- WATER WELL
- UTILITY POLE
- EDGE OF CONCRETE
- GUY ANCHOR

UTILITY CONFLICT SYMBOLS

PT.1210 — POINT NO.
6025.75 — EXISTING GROUND ELEVATION
DEPTH:1.05' — DEPTH TO TOP EXISTING UTILITY
TYPE:TEL — TYPE

SUE POTHOLE LOCATION POINT

AREA OF UTILITY Vs. DESIGN CONFLICT

DESIGN INTERFERES WITH COMM LINES. — EXPLANATION OF CONFLICTS

0 30' 60'
HORIZONTAL

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VILLAGE OF MADRID, NM
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MADRID — NEW MEXICO

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APPROVED				

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DESIGN/UTILITY CONFLICTS
ICE HOUSE ROAD AREA
(1 OF 2)

DRAWN	DATE	DWG. NO.	REV. NO.
RW	AUG 23	G007	B
SCALE	W.O. NO. 15740.001.003	SHT. 7 OF 48	

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LEGEND

UTILITY LINETYPES

E — E	ELECTRIC LINE
OHE — OHE	OVERHEAD ELECTRIC LINE
T — T	TELEPHONE LINE
OHT — OHT	OVERHEAD TELEPHONE LINE
FOT — FOT	FIBER OPTIC TELEPHONE LINE
SD — SD	STORM DRAINAGE LINE
W — W	WATER LINE
UNK — UNK	UNKNOWN UTILITY LINE
	ASCE 38 INVESTIGATION BOUNDARY LINE
	END/ LOSS OF SIGNAL
	LIMITS OF ASCE 38 INVESTIGATION
X	CHANGE OF ASCE 38 QUALITY LEVEL
	END OF UTILITY LINE
	LINE LEADS TOWARD BUILDING/INTO PRIVATE PROPERTY
COP-36"VCP-QLD	(UTILITY OWNER)-(SIZE AND/OR TYPE)-(ASCE QUALITY LEVEL)

UTILITY SYMBOLS

CAB	ELECTRIC CABINET
J	ELECTRIC JUNCTION BOX
E	ELECTRIC MANHOLE
M	ELECTRIC METER
T	ELECTRIC TRANSFORMER
	LIGHT - ARM
CAB	TELEPHONE CABINET
T	TELEPHONE MANHOLE
	TELEPHONE RISER
CB CB	CATCH BASIN
D	STORM DRAIN MANHOLE
	FIRE HYDRANT
W	WATER METER
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DESIGN/UTILITY CONFLICTS
ICE HOUSE ROAD AREA
(2 OF 2)

DRAWN	DATE	DWG. NO.	REV. NO.
RW	AUG 23	G008	B

SCALE
W.O. NO. 15740.001.003

SHT. 8 OF 48

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LEGEND

UTILITY LINETYPES

- E — ELECTRIC LINE
- OHE — OVERHEAD ELECTRIC LINE
- T — TELEPHONE LINE
- OHT — OVERHEAD TELEPHONE LINE
- FOT — FIBER OPTIC TELEPHONE LINE
- SD — STORM DRAINAGE LINE
- W — WATER LINE
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MADRID — NEW MEXICO

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PROJ. ENG.	RGE	AUG 23
PROJ. MGR.	SC	AUG 23
APPROVED		
APPROVED		

CLIENT APPROVALS — DATE

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CONSTRUCTION

DESIGN/UTILITY CONFLICTS
FIRE HOUSE LANE AREA
(1 OF 2)

DRAWN	DATE	DWG. NO.	REV. NO.
RW	AUG 23	G009	B
SCALE	W.O. NO. 15740.001.003	SHT 9 OF 48	

LEGEND

UTILITY LINETYPES

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- WATER METER
- WATER VALVE
- WATER WELL
- UTILITY POLE
- EDGE OF CONCRETE
- GUY ANCHOR

UTILITY CONFLICT SYMBOLS

PT.1210 — POINT NO.
6025.75 — EXISTING GROUND ELEVATION
DEPTH:1.05' — DEPTH TO TOP
TYPE:TEL — EXISTING UTILITY TYPE
SUE POTHOLE LOCATION POINT

AREA OF UTILITY Vs. DESIGN CONFLICT

DESIGN INTERFERES WITH COMM LINES. — EXPLANATION OF CONFLICTS

0 30' 60'
HORIZONTAL

NO.	DATE	APPR.	REVISION
A	9/24/21		ISSUED FOR REVIEW
B	10/26/22		NM EMNRD-AML REVISIONS

VILLAGE OF MADRID, NM
STORM WATER & EROSION CONTROL PROJECT

MADRID NEW MEXICO

WESTON SOLUTIONS

ALBUQUERQUE NEW MEXICO

		DATE	CLIENT APPROVALS	DATE
CHECKED	SC	AUG 23		
DES. ENG.	SC/RGE/AMB	AUG 23		
PROJ. ENG.	RGE	AUG 23		
PROJ. MGR.	SC	AUG 23		
APPROVED				
APPROVED				

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DESIGN/UTILITY CONFLICTS FIRE HOUSE LANE AREA (2 OF 2)

DRAWN	DATE	DWG. NO.	REV. NO.
RW	AUG 23	G010	B
SCALE	W.O. NO. 15740.001.003	SHT. 10 OF 48	

C:\Users\walters\Documents\Madrid Stormwater\90\M00 FRONT-END.dwg October 18, 2023 - 11:30am

Point Table

Point #	Northing	Easting	Description
1501	1603900.68	1670203.66	Geo-Test
1502	1603336.00	1669769.70	Geo-Test
1503	1603444.20	1669819.02	Geo-Test
1504	1603767.01	1669409.29	Geo-Test
1505	1603291.54	1669374.31	Geo-Test
1506	1602318.58	1668914.57	Geo-Test
1507	1602386.04	1669081.50	Geo-Test
1508	1603742.47	1669862.09	Geo-Test
1509	1603878.00	1669757.81	Geo-Test
1510	1604744.59	1669628.99	Geo-Test
1511	1604822.03	1669510.69	Geo-Test
1512	1603712.60	1670288.57	Geo-Test
1513	1603538.49	1669943.75	Geo-Test
1514	1603931.43	1669350.94	Geo-Test
1515	1604559.72	1669618.04	Geo-Test

LEGEND

UTILITY LINETYPES

- E — ELECTRIC LINE
- OHE — OVERHEAD ELECTRIC LINE
- T — TELEPHONE LINE
- OHT — OVERHEAD TELEPHONE LINE
- FOT — FIBER OPTIC TELEPHONE LINE
- SD — STORM DRAINAGE LINE
- W — WATER LINE
- UNK — UNKNOWN UTILITY LINE
- ASCE 38 INVESTIGATION BOUNDARY LINE
- END/ LOSS OF SIGNAL
- LIMITS OF ASCE 38 INVESTIGATION
- X — CHANGE OF ASCE 38 QUALITY LEVEL
- END OF UTILITY LINE
- LINE LEADS TOWARD BUILDING/INTO PRIVATE PROPERTY
- COP-36"VCP-QLD — (UTILITY OWNER)-(SIZE AND/OR TYPE)-(ASCE QUALITY LEVEL)

UTILITY SYMBOLS

- CAB — ELECTRIC CABINET
- J — ELECTRIC JUNCTION BOX
- E — ELECTRIC MANHOLE
- M — ELECTRIC METER
- T — ELECTRIC TRANSFORMER
- LIGHT - ARM
- CAB — TELEPHONE CABINET
- T — TELEPHONE MANHOLE
- TELEPHONE RISER
- CB — CATCH BASIN
- D — STORM DRAIN MANHOLE
- FIRE HYDRANT
- W — WATER METER
- WATER VALVE
- WATER WELL
- UTILITY POLE
- EDGE OF CONCRETE
- GUY ANCHOR

UTILITY CONFLICT SYMBOLS

GEO–TEST 1509 — DESCRIPTION — POINT NO.

PROPOSED GEO-TEST BORING LOCATION

0 100' 200'

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NO.	DATE	APPR.	REVISION	NO.	DATE	APPR.	REVISION
A	9/24/21		ISSUED FOR REVIEW				
B	10/26/22		NM EMNRD-AML REVISIONS				

VILLAGE OF MADRID, NM
STORM WATER & EROSION CONTROL PROJECT

MADRID — NEW MEXICO

WESTON SOLUTIONS

ALBUQUERQUE — NEW MEXICO

		DATE	CLIENT APPROVALS	DATE
CHECKED	SC	AUG 23		
DES. ENG.	SC/RGE/AMB	AUG 23		
PROJ. ENG.	RGE	AUG 23		
PROJ. MGR.	SC	AUG 23		
APPROVED				
APPROVED				

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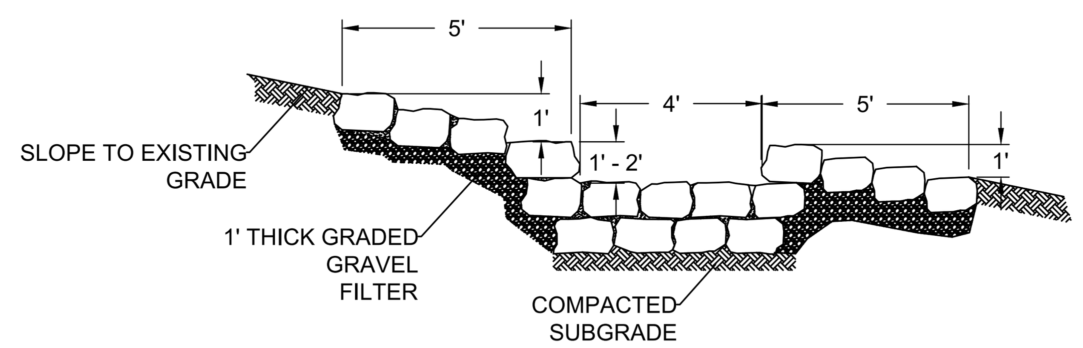
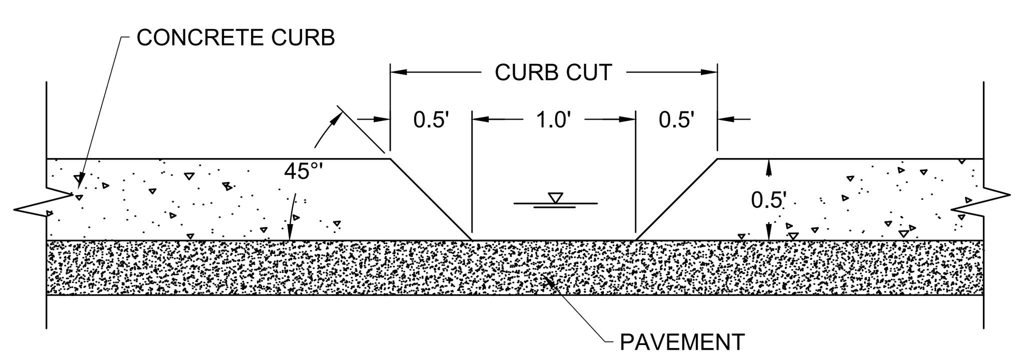
GEO-TEST BORINGS LOCATION MAP

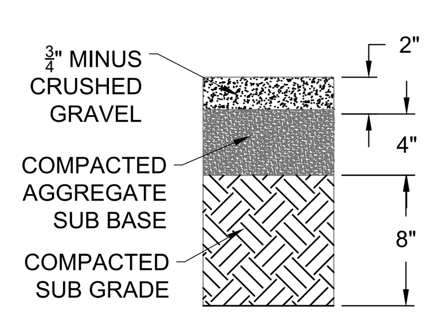
DRAWN	DATE	DWG. NO.	REV. NO.
RW	AUG 23	G011	B
SCALE	W.O. NO. 15740.001.003	SHT. 11 OF 48	



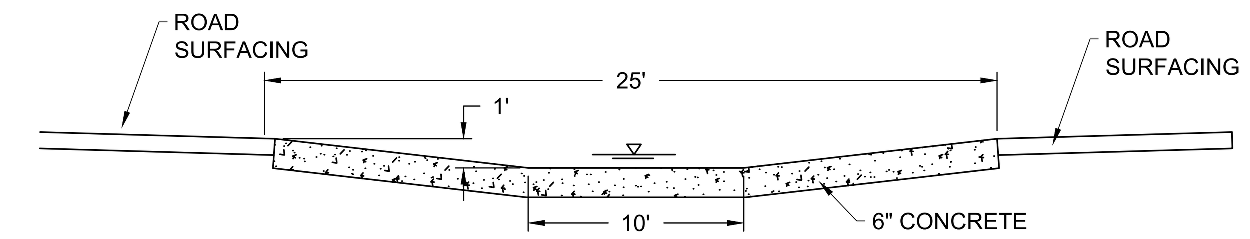
1 PLUNGE POOL SECTION



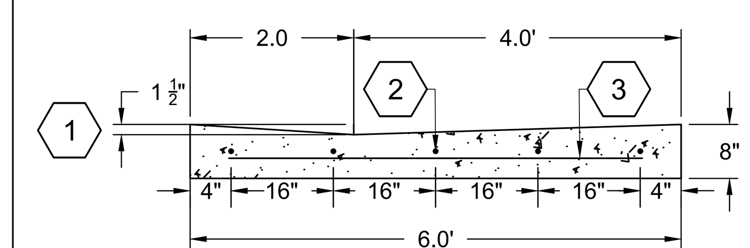
2 CURB CUT SECTION



3 ROAD SURFACE SECTION



4 CONCRETE DIP SECTION SECTION



KEYED NOTES

1. THE 1 ½" INVERT DEPTH MAY BE REDUCED TIO IMPROVE RIDEABILITY WITH THE ENGINEER'S APPROVAL.
2. NO. 4 BARS 3'-0" LONG AT 16" O.C.
3. 6" X 6" X NO. 6 GA. WIRE MESH.

CONSTRUCTION NOTES

A. VALLEY GUTTER DETAIL FROM CITY OF ALBUQUERQUE STANDARD DRAWING 2420.

5 CONCRETE VALLEY GUTTER SECTION

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NO.	DATE	APPR.	REVISION	NO.	DATE	APPR.	REVISION
A	9/24/21		ISSUED FOR REVIEW				
B	10/26/22		NM EMNRD-AML REVISIONS				

VILLAGE OF MADRID, NM
STORM WATER & EROSION CONTROL PROJECT
MADRID NEW MEXICO

WESTON SOLUTIONS
ALBUQUERQUE NEW MEXICO

		DATE	CLIENT APPROVALS	DATE
CHECKED	SC	AUG 23		
DES. ENG.	SC/RGE/AMB	AUG 23		
PROJ. ENG.	RGE	AUG 23		
PROJ. MGR.	SC	AUG 23		
APPROVED				
APPROVED				

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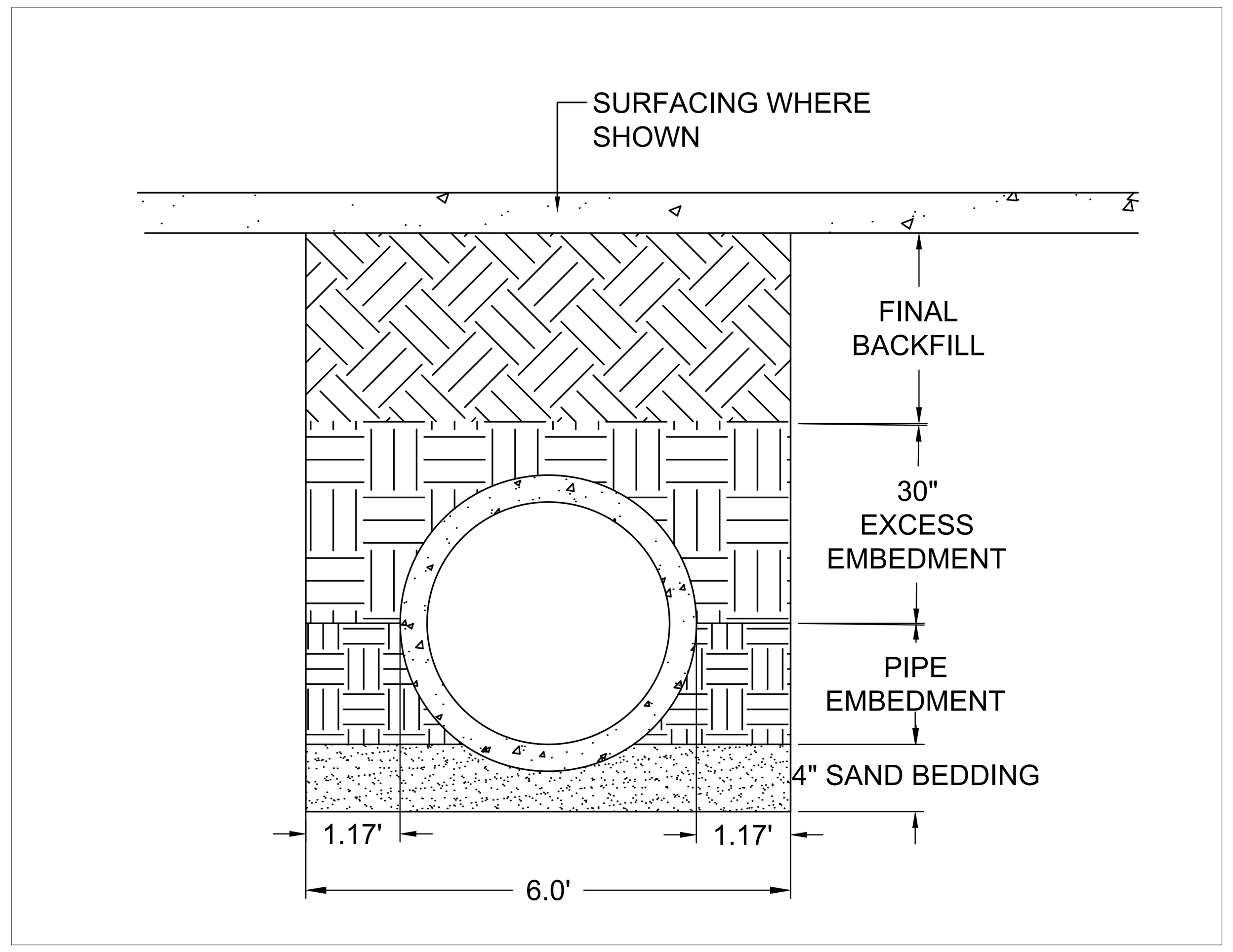
~~ICE HOUSE ROAD~~
TYPICAL SECTIONS

DRAWN RW | DATE AUG 23 | DWG. NO. G012 | REV. NO. B
SCALE | W.O. NO. 15740.001.003 | SHT 12 OF 48



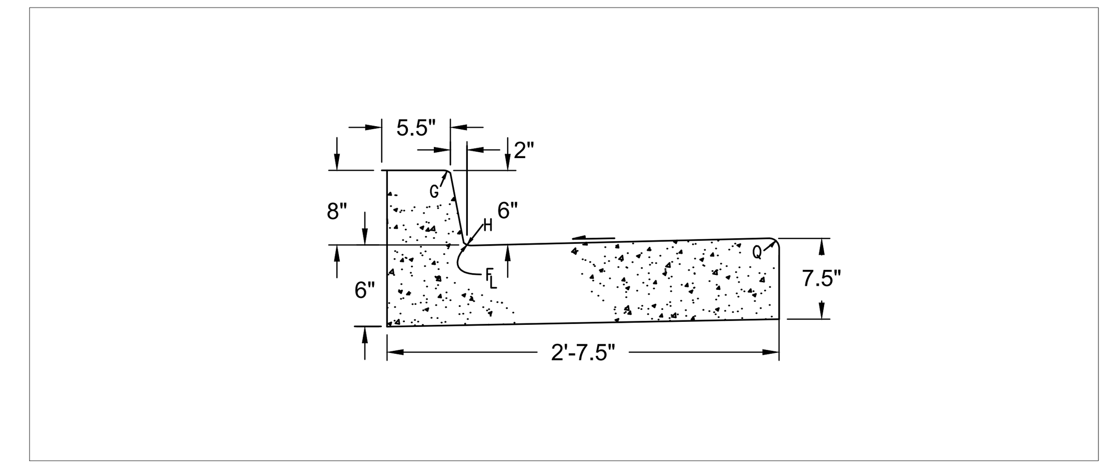
1 STORM DRAIN PIPE TRENCH DETAIL

TRENCH NOTES

A. SAND BEDDING AND SELECT BACKFILL SHALL NOT CONTAIN ROCK GREATER THAN 2" INCHES IN ANY DIMENSION. MECHANICALLY TAMP TO COMPACT.

B. PLACE BACKFILL IN 12" LOOSE LIFTS AND COMPACT TO 95% OF MAXIMUM DENSITY PER ASTM D698.

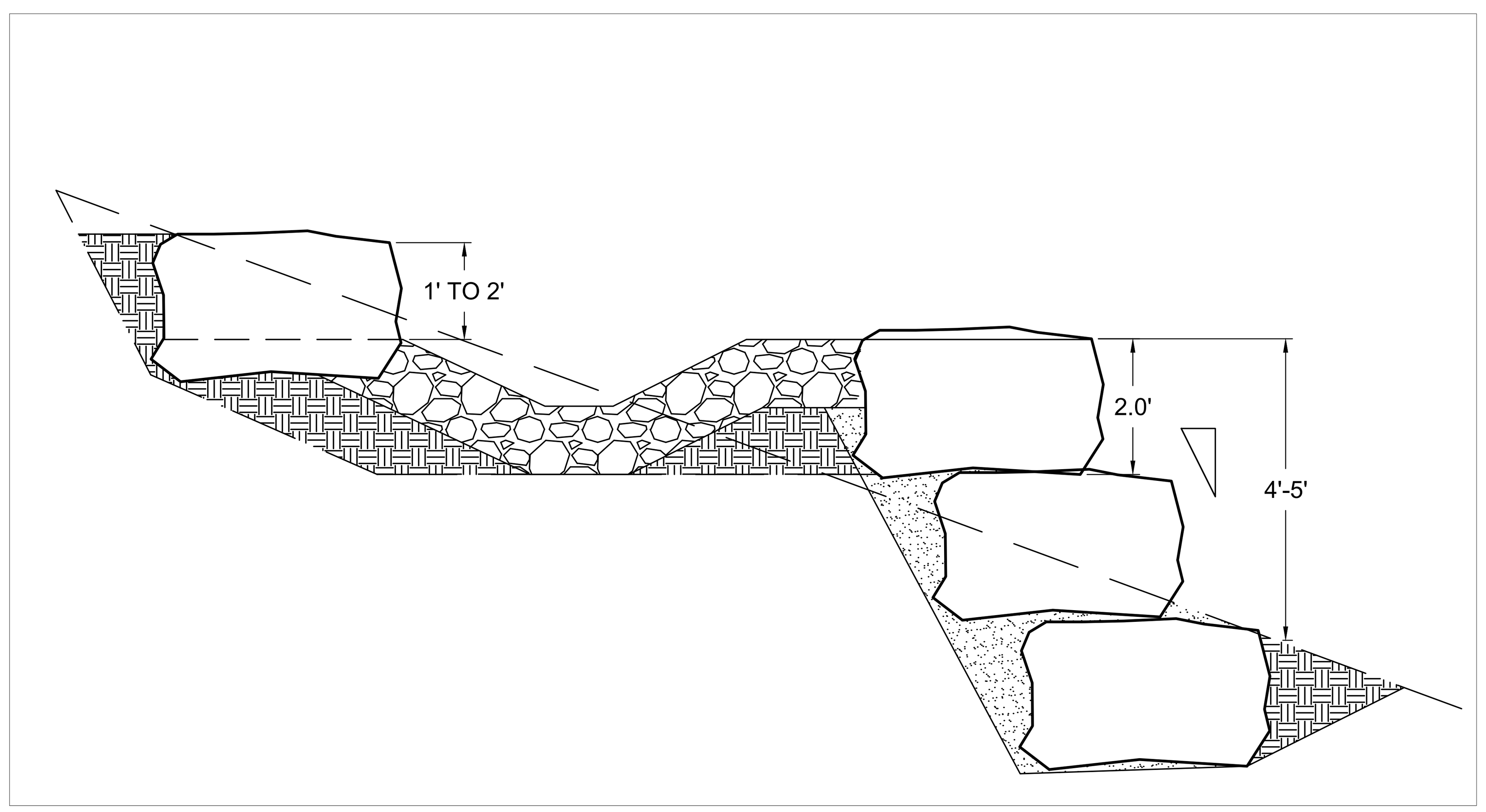
C. FOR MULTIPLE UTILITIES, SPACE 6" BETWEEN PIPES. PROVIDE 6" FROM EDGE OF PIPE TO WALL OF TRENCH



1 TYPICAL CURB AND GUTTER DETAIL

KEYED NOTES

1 X



1 BOULDER RETAINING WALL SECTION

CONSTRUCTION NOTES

A X

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

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WESTON SOLUTIONS
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		DATE	CLIENT APPROVALS	DATE
CHECKED	####	####		
DES. ENG.	####	####		
PROJ. ENG.	####	####		
PROJ. MGR.	####	####		
APPROVED	####	####		
APPROVED	####	####		

0 50' 100'
HORIZONTAL ####
####
####

DRAWN	DATE	DWG. NO.	REV. NO.
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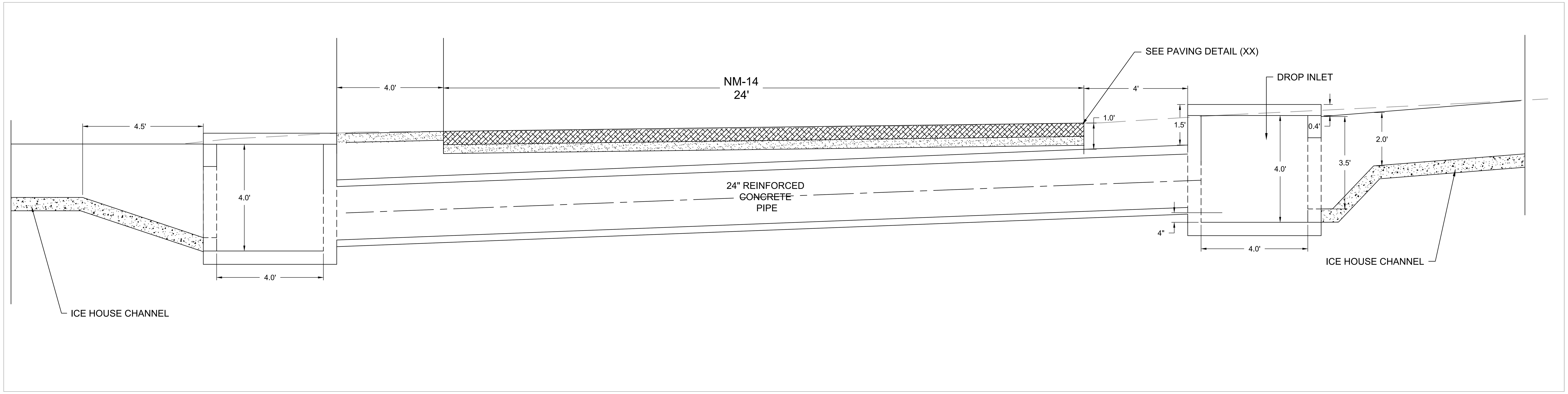
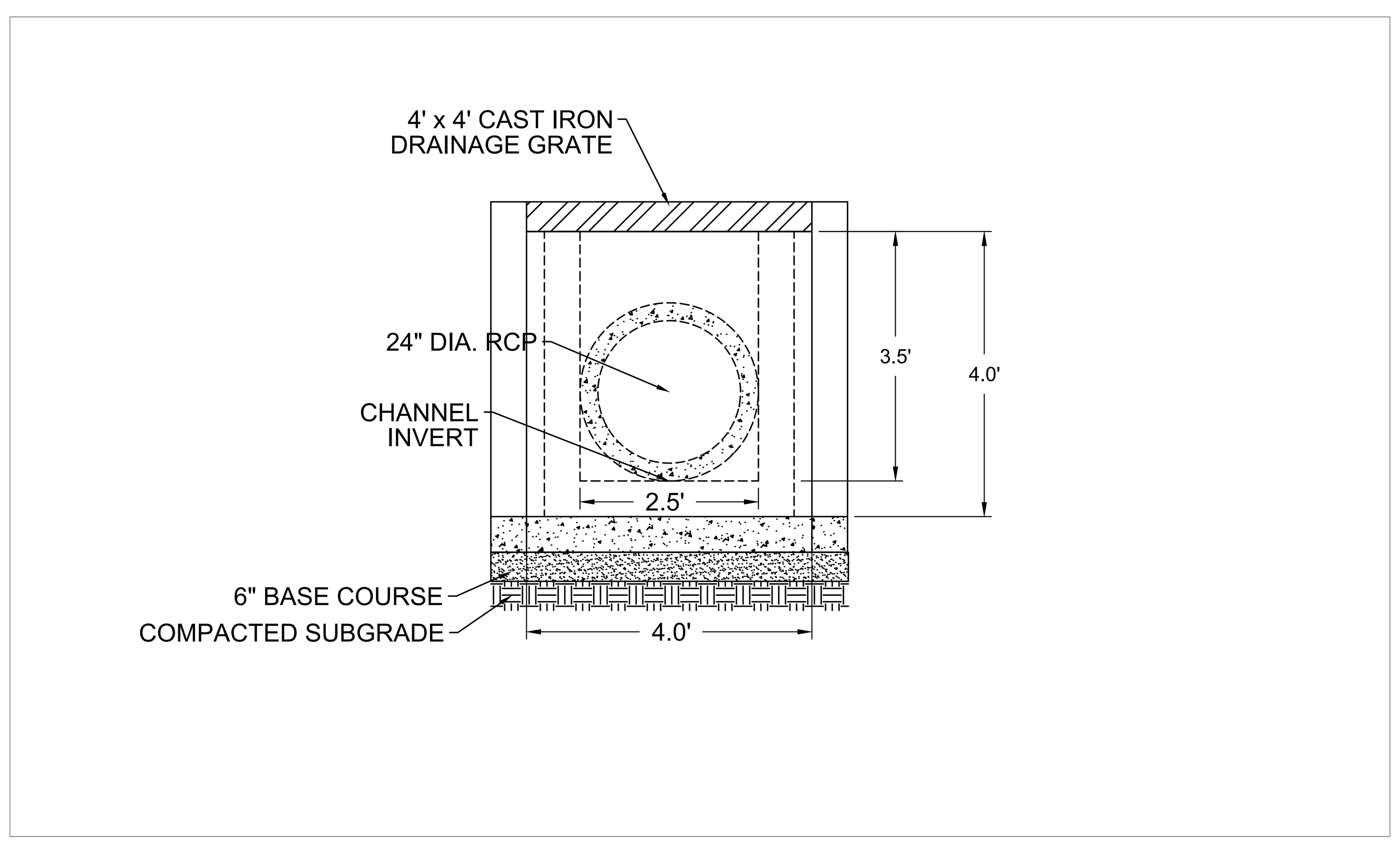
SCALE ####	W.O. NO. ####	SHT #### OF ####	



1 NM 14 CULVERT CROSSING PROFILE DETAIL

0 2' 4'
HORIZONTAL



A CATCH BASIN SECTION DETAIL

0 2' 4'
HORIZONTAL

NOTES

A. CONSTRUCT CATCH BASIN PER NMDOT STANDARD DRAWING XXX -XXX..

KEYED NOTES

1 X

CONSTRUCTION NOTES

A X

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

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CHECKED	####	####	CLIENT APPROVALS	DATE
DES. ENG.	####	####		
PROJ. ENG.	####	####		
PROJ. MGR.	####	####		
APPROVED	####	####		
APPROVED	####	####		

WESTON SOLUTIONS

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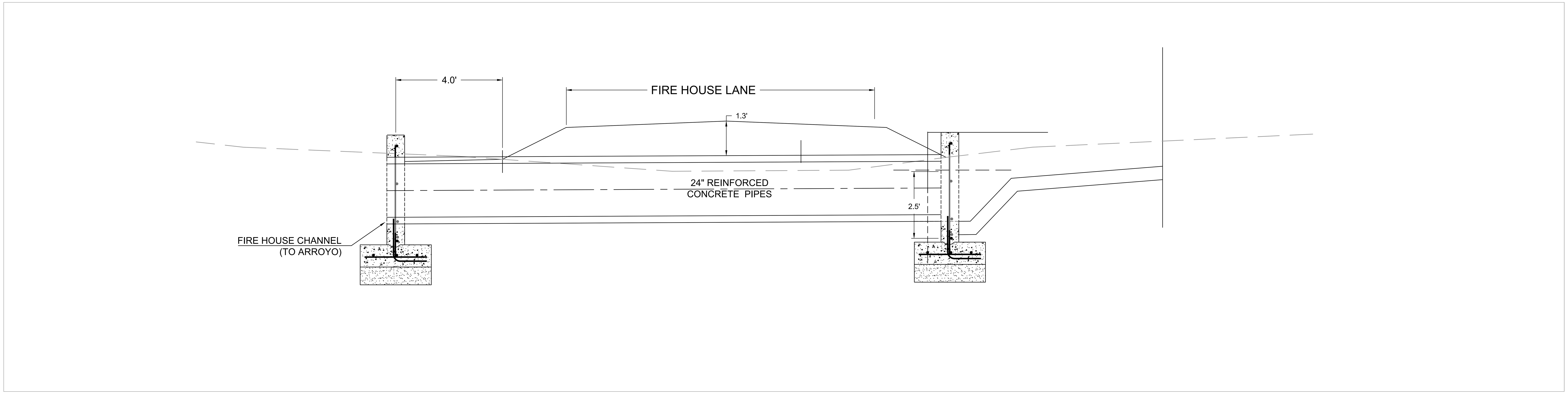
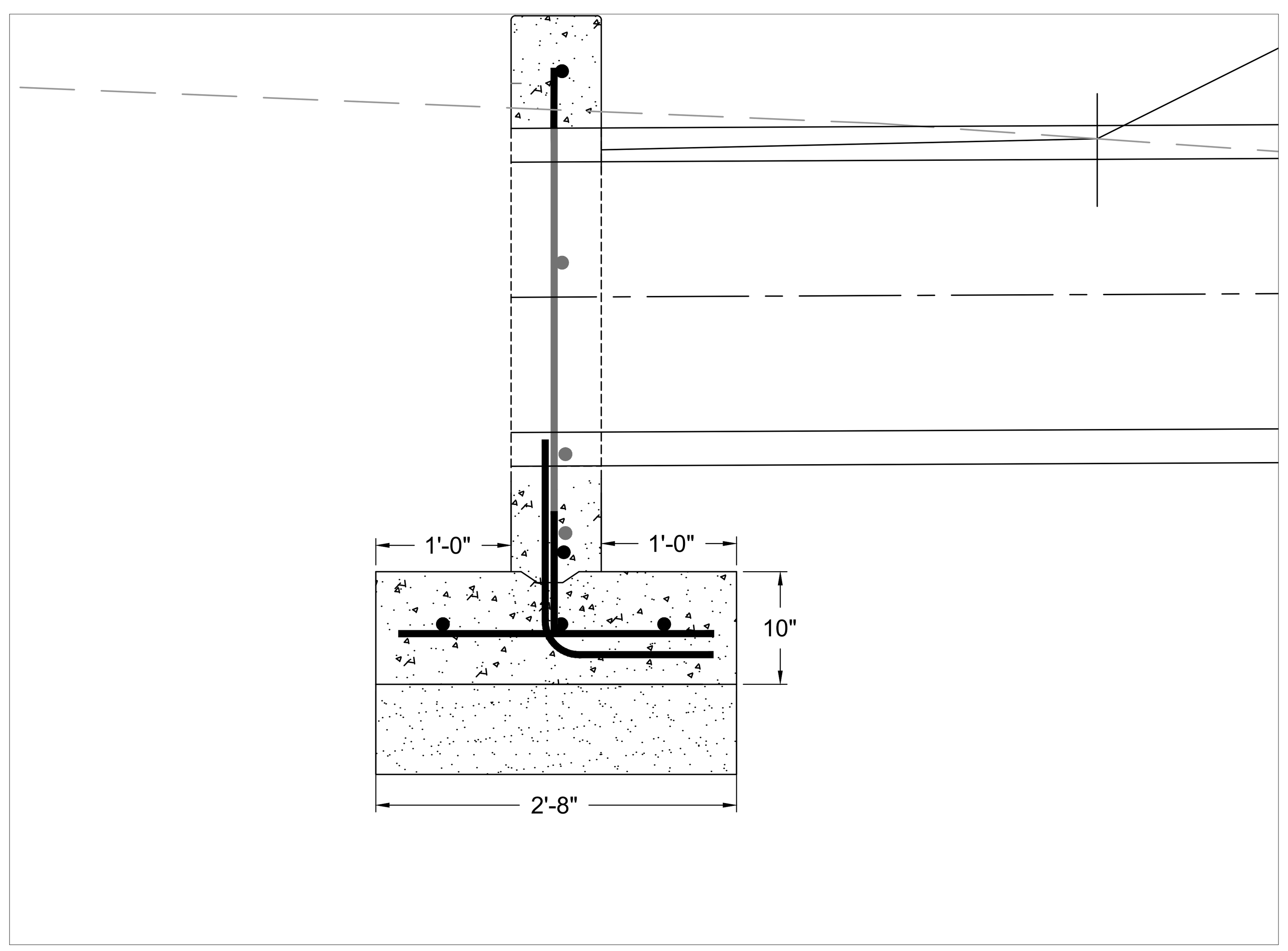
DRAWN ####	DATE ####	DWG. NO. ####	REV. NO. ####
SCALE ####	W.O. NO. ####	SHT #### OF ####	



1 FIRE HOUSE LAND CULVERT CROSSING PROFILE DETAIL

0 2' 4'
HORIZONTAL



A HEADWALL SECTION DETAIL

0 2' 4'
HORIZONTAL

NOTES

A. CONSTRUCT CATCH BASIN PER NMDOT STANDARD DRAWING XXX -XXX..

KEYED NOTES

1 X

CONSTRUCTION NOTES

A X

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

####
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####

WESTON SOLUTIONS

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		DATE	CLIENT APPROVALS	DATE
CHECKED	####	####		
DES. ENG.	####	####		
PROJ. ENG.	####	####		
PROJ. MGR.	####	####		
APPROVED	####	####		
APPROVED	####	####		

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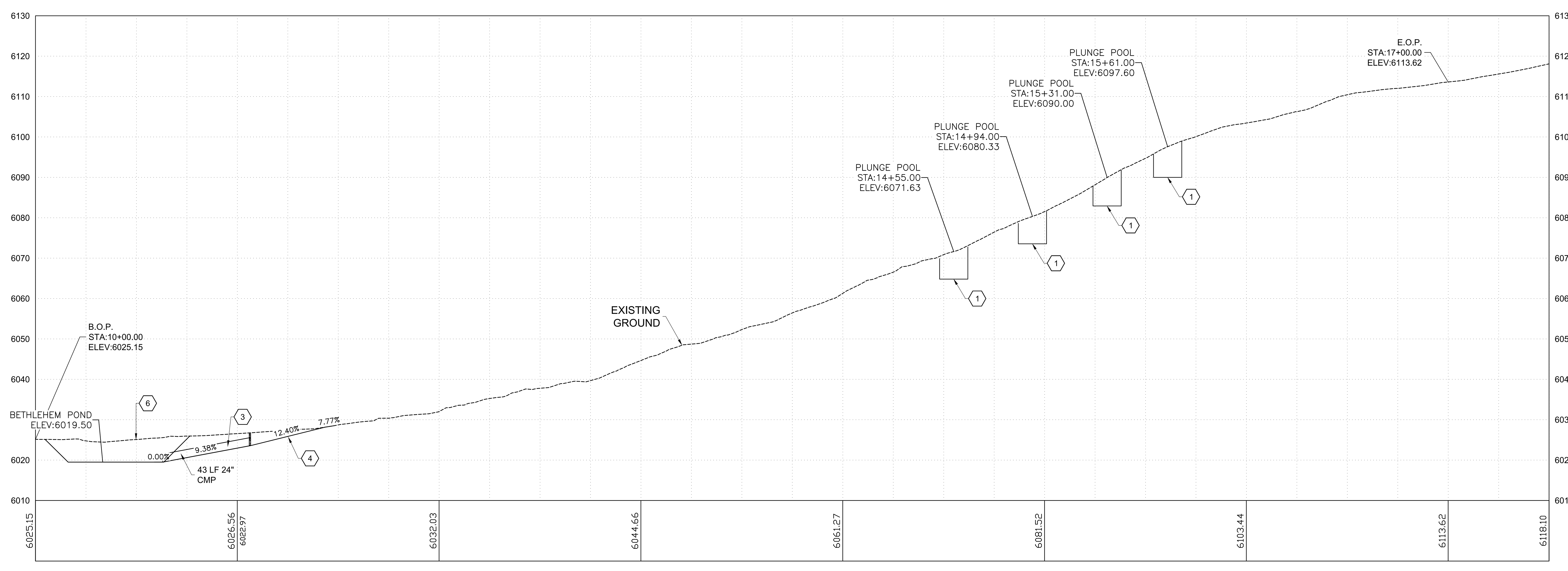
DRAWN ####	DATE ####	DWG. NO. ####		REV. NO. ####
SCALE ####	W.O. NO. ####	SHT ####	OF ####	

Oct 26,2023 — 9:58am ederer

KEYED NOTES

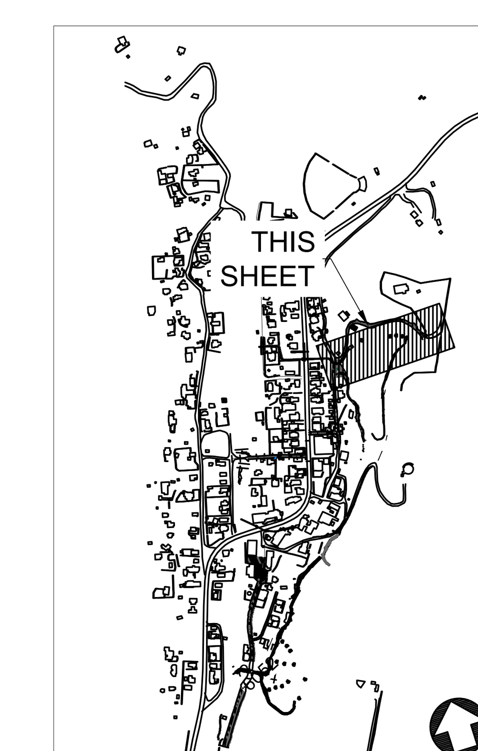
1. SEE DETAIL 1 SHEET G012 FOR PLUNGE POOL TYPICAL DETAIL.
2. SEE BETHLEHEM HILL ARROYO CROSS SECTIONS ON SHEET C101
3. 24-INCH CMP CULVERT WITH UPSTREAM END SECTION
4. DIVERSION CHANNEL
5. BETHLEHEM SEDIMENT POND
6. 24-INCH CMP AND CONCRETE DIP SECTION

CONSTRUCTION NOTES



HORIZONTAL 0 30' 60'

VERTICAL 0 15' 30'



KEY MAP

NO.	DATE	APPR.	REVISION
A	9/24/21		ISSUED FOR REVIEW
B	10/26/22		NM EMNRD-AML REVISIONS

VILLAGE OF MADRID, NM
STORM WATER & EROSION CONTROL PROJECT

MADRID NEW MEXICO

WESTON SOLUTIONS

ALBUQUERQUE NEW MEXICO

		DATE
CHECKED	SC	AUG 23
DES. ENG.	SC/RGE/AMB	AUG 23
PROJ. ENG.	RGE	AUG 23
PROJ. MGR.	SC	AUG 23
APPROVED		
APPROVED		

CLIENT APPROVALS DATE

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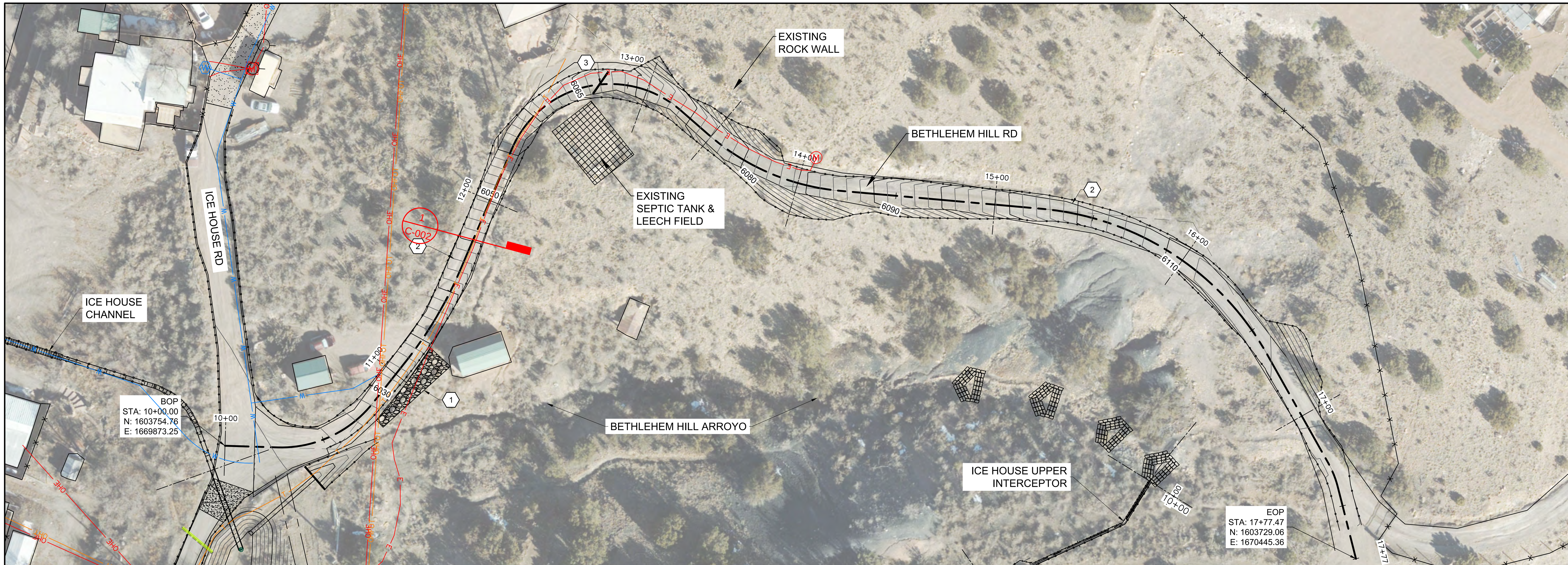
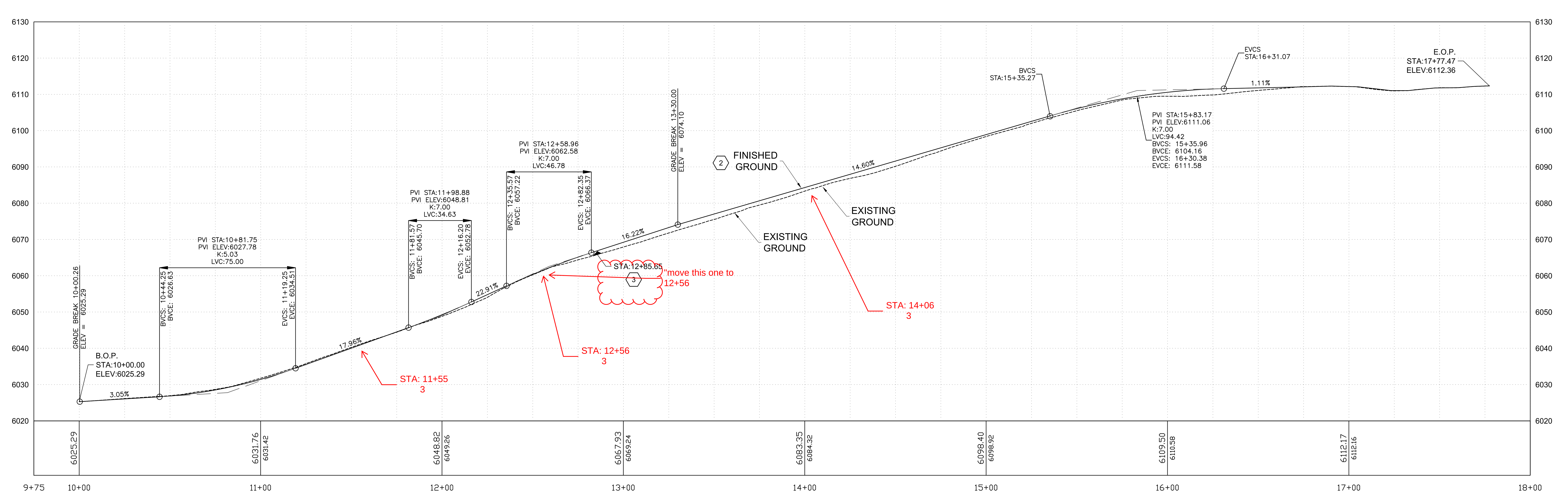
ICE HOUSE ROAD/MADRID ARROYO AREA
BETHLEHEM HILL ARROYO
PLAN AND PROFILE

DRAWN	DATE	DWG. NO.	REV. NO.
RW	AUG 23	C001	B
SCALE	W.O. NO. 15740.001.003	SHT 13 OF 48	



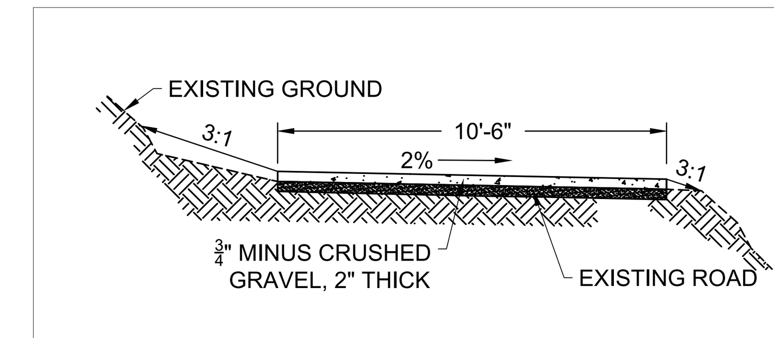


KEYED NOTES

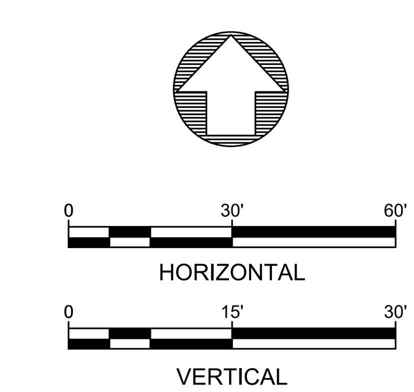
1. FILL EROSION SCOUR WITH ROCK/GRAVEL MIXTURE.
2. CROSS SLOPE ROAD GRADING.
3. INSTALL WATER BAR.

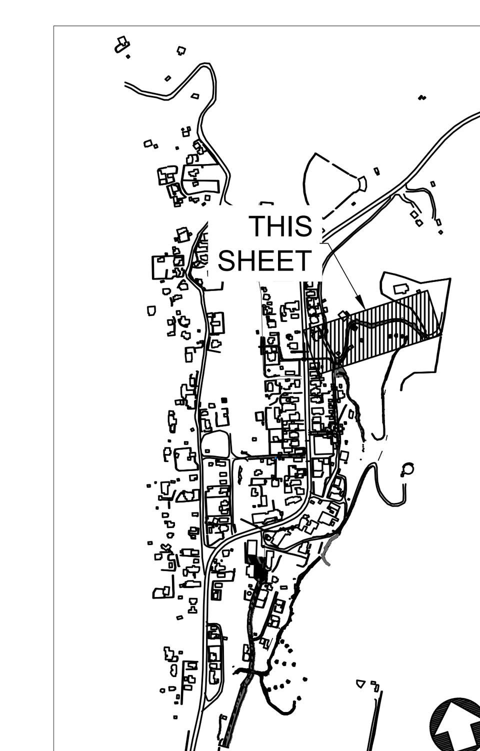
CONSTRUCTION NOTES

A. SEE BETHLEHEM HILL ROAD CROSS SECTIONS ON SHEET C102.



BETHLEHEM HILL ROAD
TYPICAL SECTION (NTS)





KEY MAP

NO.	DATE	APPR.	REVISION
A	9/24/21		ISSUED FOR REVIEW
B	10/26/22		NM EMNRD-AML REVISIONS

VILLAGE OF MADRID, NM
STORM WATER & EROSION CONTROL PROJECT

MADRID — NEW MEXICO

ALBUQUERQUE — NEW MEXICO

		DATE
CHECKED	SC	AUG 23
DES. ENG.	SC/RGE/AMB	AUG 23
PROJ. ENG.	RGE	AUG 23
PROJ. MGR.	SC	AUG 23
APPROVED		
APPROVED		

CLIENT APPROVALS — DATE

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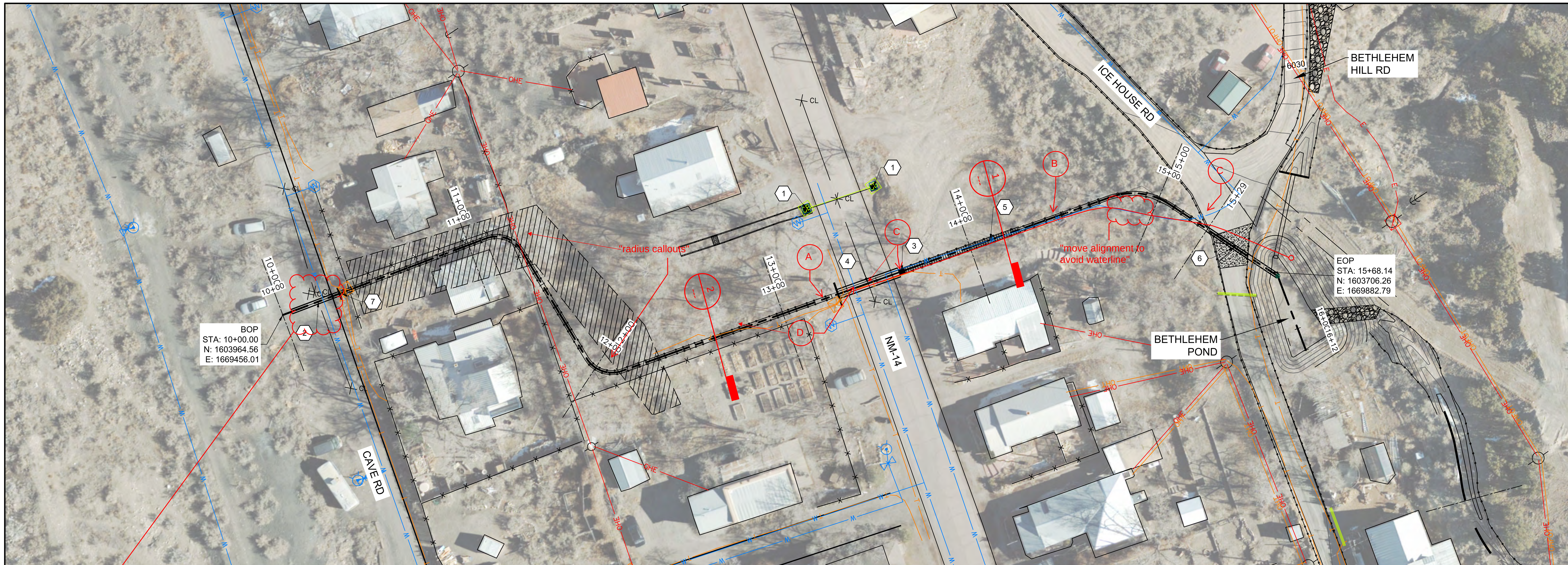
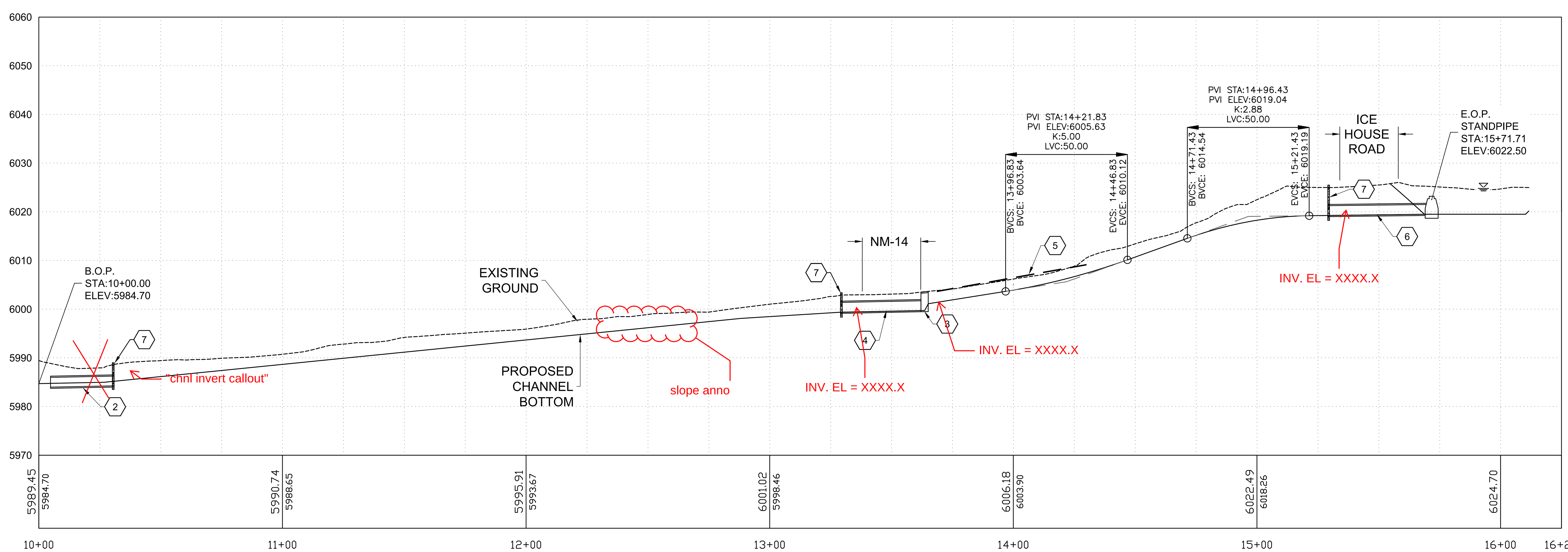
ICE HOUSE ROAD/MADRID ARROYO AREA
BETHLEHEM HILL ROAD
PLAN AND PROFILE

DRAWN: RW — DATE: AUG 23 — DWG. NO.: C002 — REV. NO.: B
SCALE: — W.O. NO.: 15740.001.003 — SHT 14 OF 48



Mr. Phillips wants to take out the culvert crossing and put a dip section in. More to come



KEYED NOTES

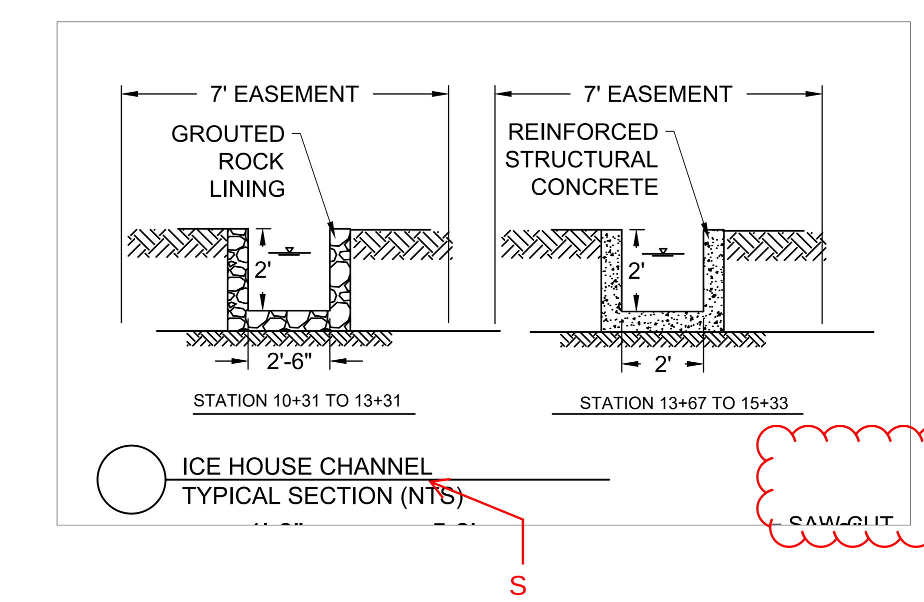
1. REMOVE EXISTING DROP INLETS AND FILL TO GRADE.
2. 2- 24" REINFORCED CONCRETE PIPES CROSSING UNDER CAVE ROAD.
3. PROPOSED DROP INLET
4. 2- 24" REINFORCED CONCRETE PIPES CROSSING UNDER NM-14.
5. CONCRETE CHANNEL WITH DRIVABLE GRATED COVER.
6. 24" CORRUGATED METAL PIPE.
7. REINFORCED CONCRETE HEADWALL.

CONSTRUCTION NOTES

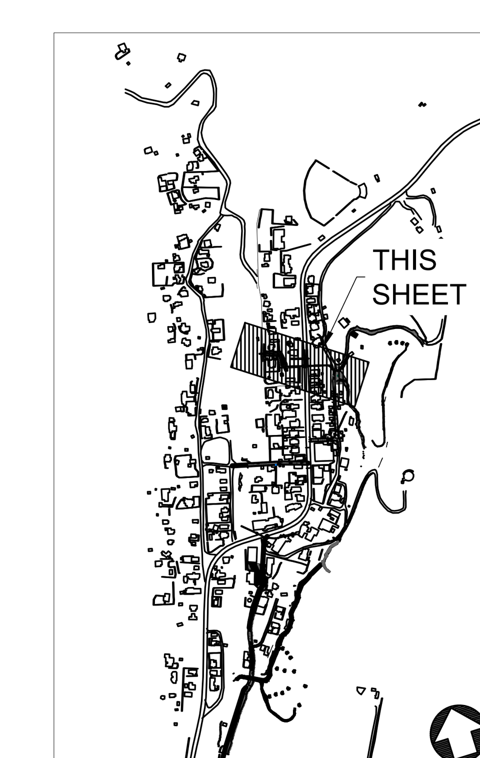
A. ICE HOUSE CHANNEL DOWNSTREAM OF NM-14 CROSSING IS RECTANGULAR 2 FT DEEP AND 2.5 FT WIDE.

B. ICE HOUSE CHANNEL UPSTREAM OF NM-14 CROSSING IS RECTANGULAR 2 FT DEEP AND 2 FT WIDE.

C. LOCATE EXISTING WATERLINE BEFORE EXCAVATION
D. MOVE EXISTING TELEPHONE LINE



0 30' 60'
HORIZONTAL
0 15' 30'
VERTICAL



KEY MAP

NO.	DATE	APPR.	REVISION
A	9/24/21		ISSUED FOR REVIEW
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VILLAGE OF MADRID, NM
STORM WATER & EROSION CONTROL PROJECT
MADRID NEW MEXICO

WESTON SOLUTIONS
ALBUQUERQUE NEW MEXICO

		DATE	CLIENT APPROVALS	DATE
CHECKED	SC	AUG 23		
DES. ENG.	SC/RGE/AMB	AUG 23		
PROJ. ENG.	RGE	AUG 23		
PROJ. MGR.	SC	AUG 23		
APPROVED				
APPROVED				

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ICE HOUSE ROAD/MADRID ARROYO AREA
ICE HOUSE CHANNEL
PLAN AND PROFILE

DRAWN	DATE	DWG. NO.	REV. NO.
RW	AUG 23	C003	B
SCALE	W.O. NO. 15740.001.003	SHT 15 OF 48	

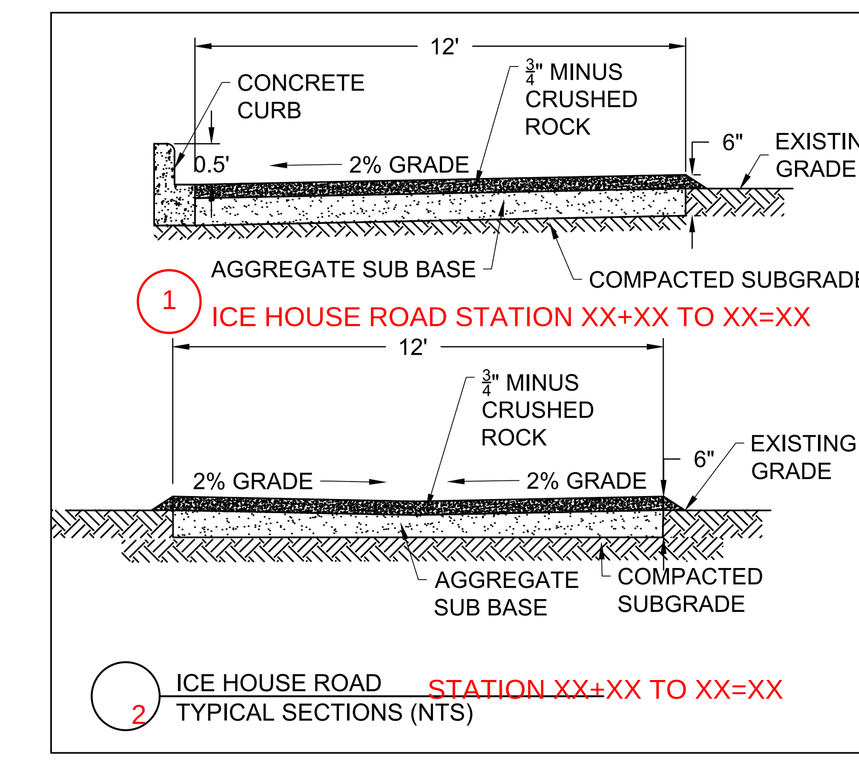
C:\Users\waters\Documents\Madrid Stormwater\90\Ice House Area PnPs.dwg October 18, 2023 - 11:33am

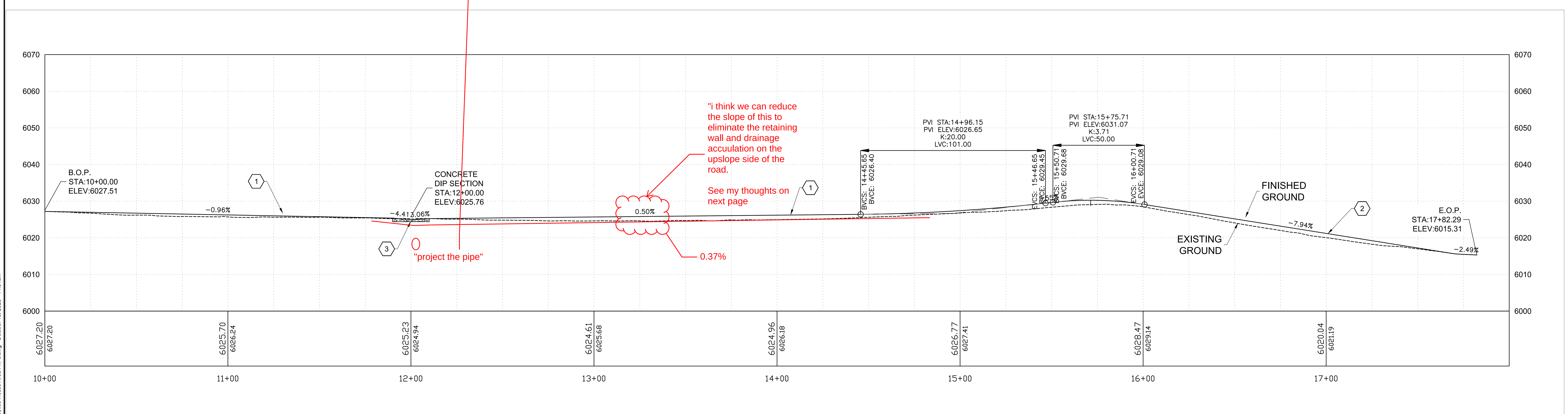
KEYED NOTES

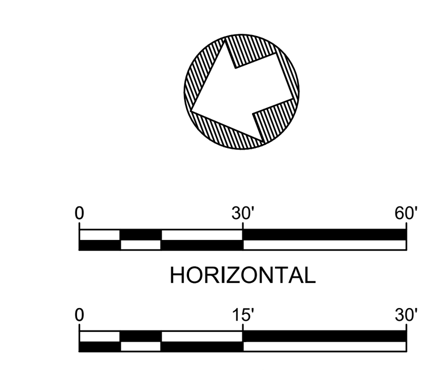
1. ICE HOUSE ROAD CROSS SLOPE ROADWAY.
2. ICE HOUSE ROAD INVERTED CROWN ROAD.
3. ICE HOUSE ROAD CONCRETE DIP SECTION..
4. CONCRETE CURB
5. RESIDENTIAL DRIVE ENTRANCE

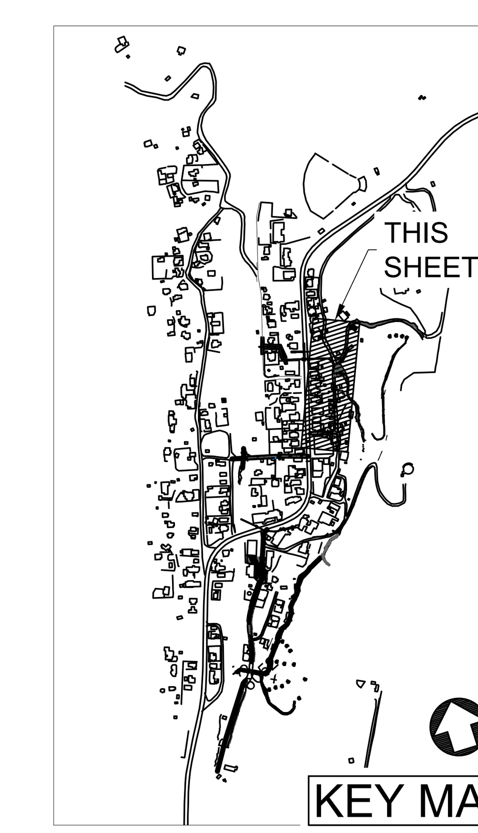
CONSTRUCTION NOTES

A. ICE HOUSE ROAD STATIONS 16+30.00 TO 16+55.00 TRANSITION FROM CROSS SLOPED TO INVERTED CROWN ROAD.









NO.	DATE	APPR.	REVISION
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VILLAGE OF MADRID, NM
STORM WATER & EROSION CONTROL PROJECT

MADRID NEW MEXICO

ALBUQUERQUE NEW MEXICO

		DATE
CHECKED	SC	AUG 23
DES. ENG.	SC/RGE/AMB	AUG 23
PROJ. ENG.	RGE	AUG 23
PROJ. MGR.	SC	AUG 23
APPROVED		
APPROVED		

CLIENT APPROVALS DATE

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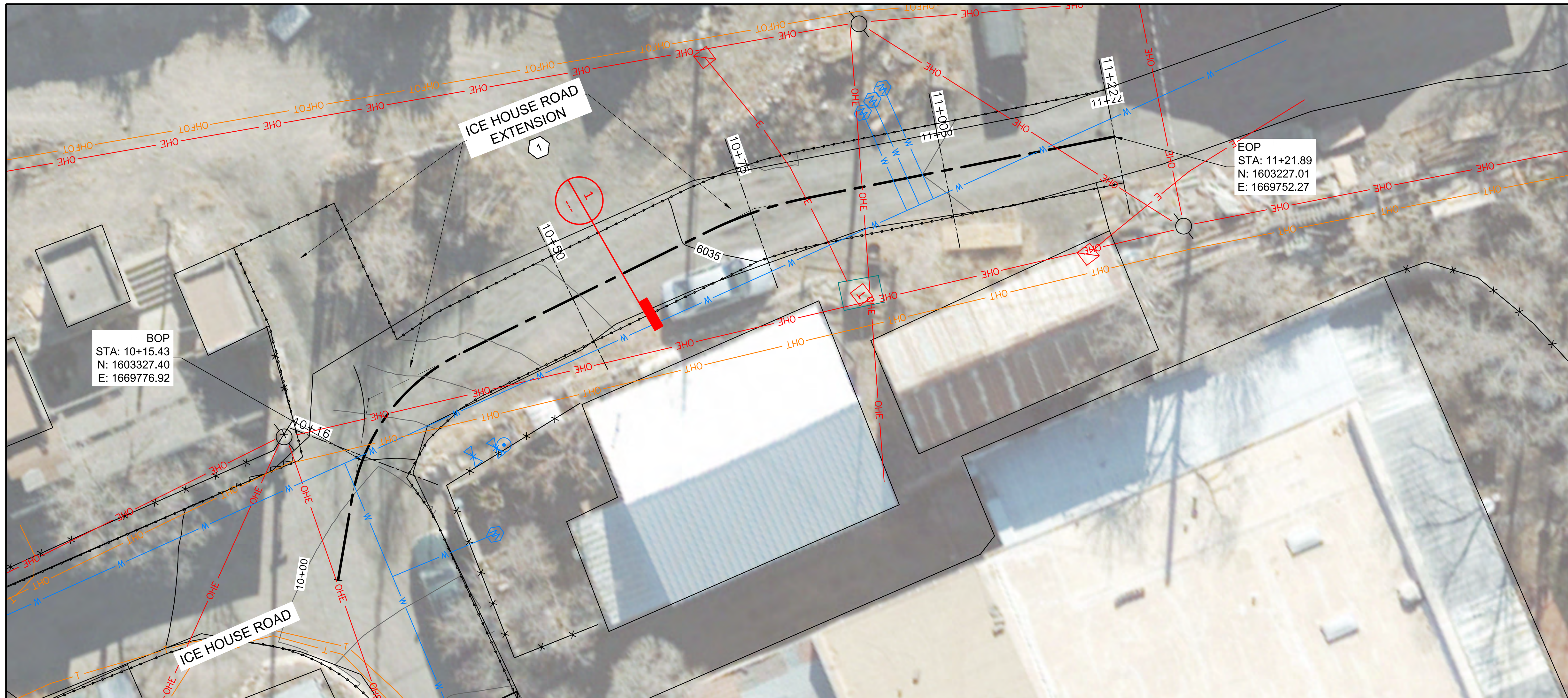
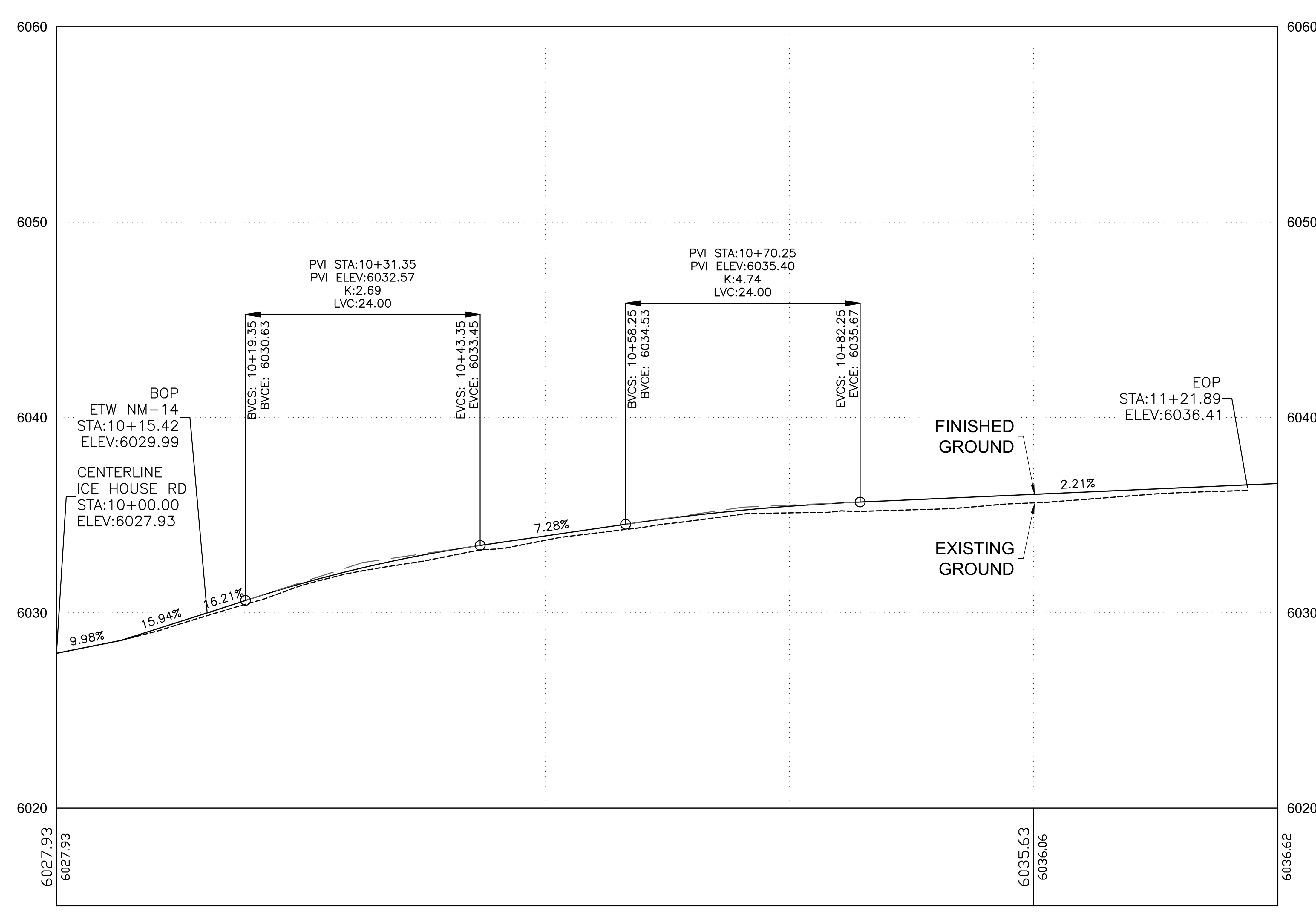
CONSTRUCTION

ICE HOUSE ROAD/MADRID ARROYO AREA
ICE HOUSE ROAD
PLAN AND PROFILE

DRAWN	DATE	DWG. NO.	REV. NO.
RW	AUG 23	C004	B

SCALE | W.O. NO. 15740.001.003 | SHT 16 OF 48

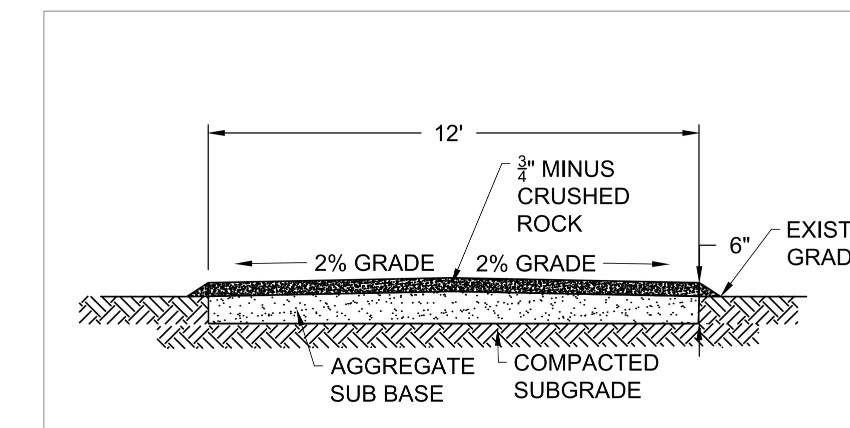




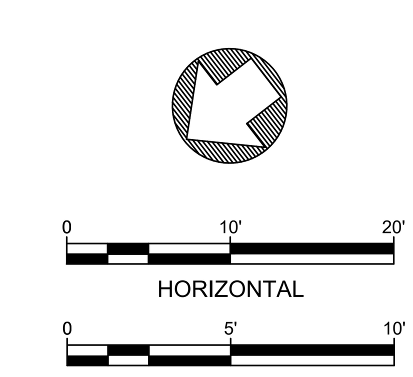
KEYED NOTES

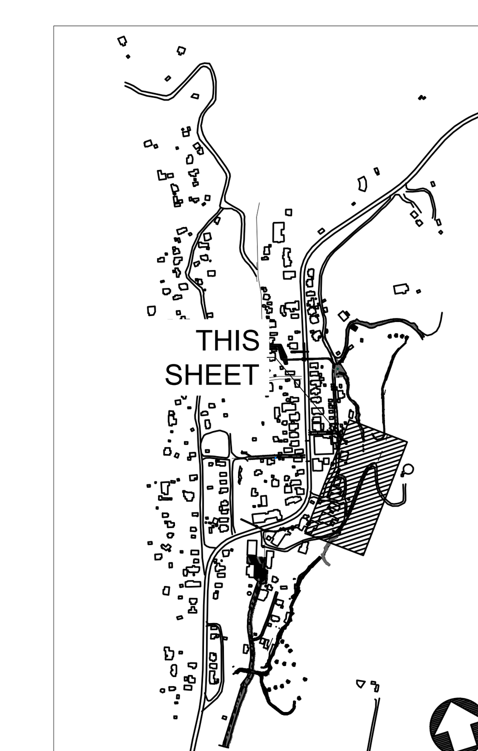
1. ICE HOUSE ROAD CROWNED ROAD.

CONSTRUCTION NOTES



ICE HOUSE ROAD EXTENSION
TYPICAL SECTION (NTS)





KEY MAP

NO.	DATE	APPR.	REVISION	NO.	DATE	APPR.	REVISION
A	9/24/21		ISSUED FOR REVIEW				
B	10/26/22		NM EMNRD-AML REVISIONS				

VILLAGE OF MADRID, NM
STORM WATER & EROSION CONTROL PROJECT

MADRID NEW MEXICO

WESTON SOLUTIONS

ALBUQUERQUE NEW MEXICO

		DATE	CLIENT APPROVALS	DATE
CHECKED	SC	AUG 23		
DES. ENG.	SC/RGE/AMB	AUG 23		
PROJ. ENG.	RGE	AUG 23		
PROJ. MGR.	SC	AUG 23		
APPROVED				
APPROVED				

DRAFT
NOT FOR
CONSTRUCTION

EAST SLOPE NORTH
ICE HOUSE ROAD EXTENSION
PLAN AND PROFILE

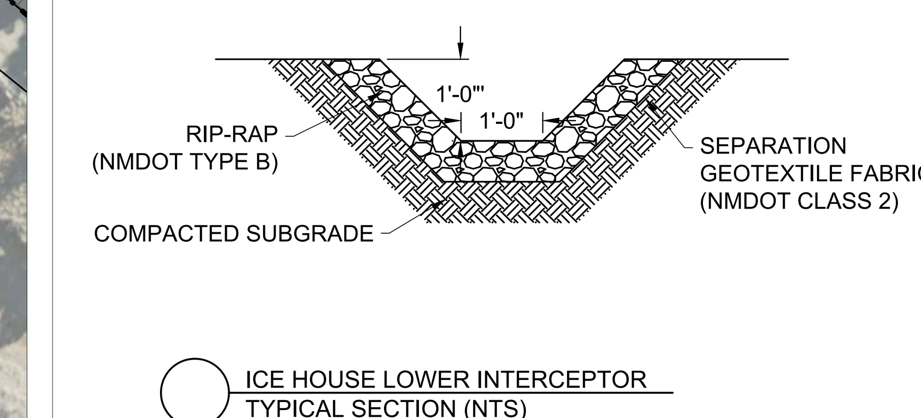
DRAWN	DATE	DWG. NO.	REV. NO.
RW	AUG 23	C005	B
SCALE	W.O. NO. 15740.001.003	SHT 17 OF 48	

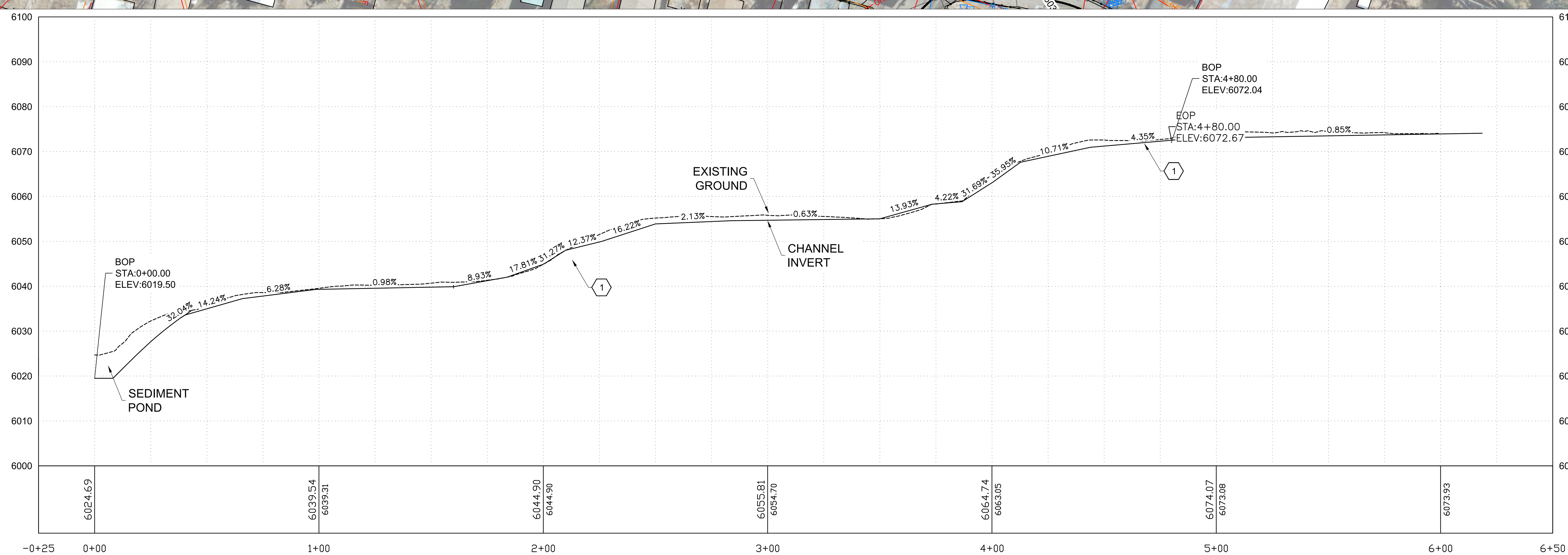
C:\Users\waters\Documents\Madrid Stormwater\90\Ice House Area PnPs.dwg October 18, 2023 - 11:34am

KEYED NOTES

1. RIPRAP LINED TRAPEZOIDAL CHANNEL 1 FT DEEP, 1 FT WIDE, WITH 2:1 SIDE SLOPES.

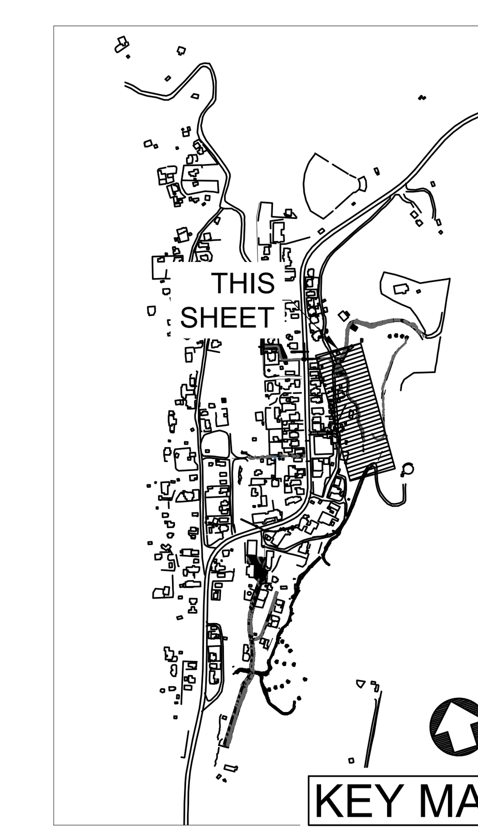
CONSTRUCTION NOTES





HORIZONTAL: 0 30' 60'

VERTICAL: 0 15' 30'



KEY MAP

NO.	DATE	APPR.	REVISION
A	9/24/21		ISSUED FOR REVIEW
B	10/26/22		NM EMNRD-AML REVISIONS

VILLAGE OF MADRID, NM
STORM WATER & EROSION CONTROL PROJECT

MADRID — NEW MEXICO

WESTON SOLUTIONS

ALBUQUERQUE — NEW MEXICO

		DATE
CHECKED	SC	AUG 23
DES. ENG.	SC/RGE/AMB	AUG 23
PROJ. ENG.	RGE	AUG 23
PROJ. MGR.	SC	AUG 23
APPROVED		
APPROVED		

CLIENT APPROVALS — DATE

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NOT FOR
CONSTRUCTION

ICE HOUSE ROAD/MADRID ARROYO AREA
ICE HOUSE LOWER INTERCEPTOR
PLAN AND PROFILE

DRAWN	DATE	DWG. NO.	REV. NO.
RW	AUG 23	C006	B
SCALE	W.O. NO. 15740.001.003	SHT 18 OF 48	

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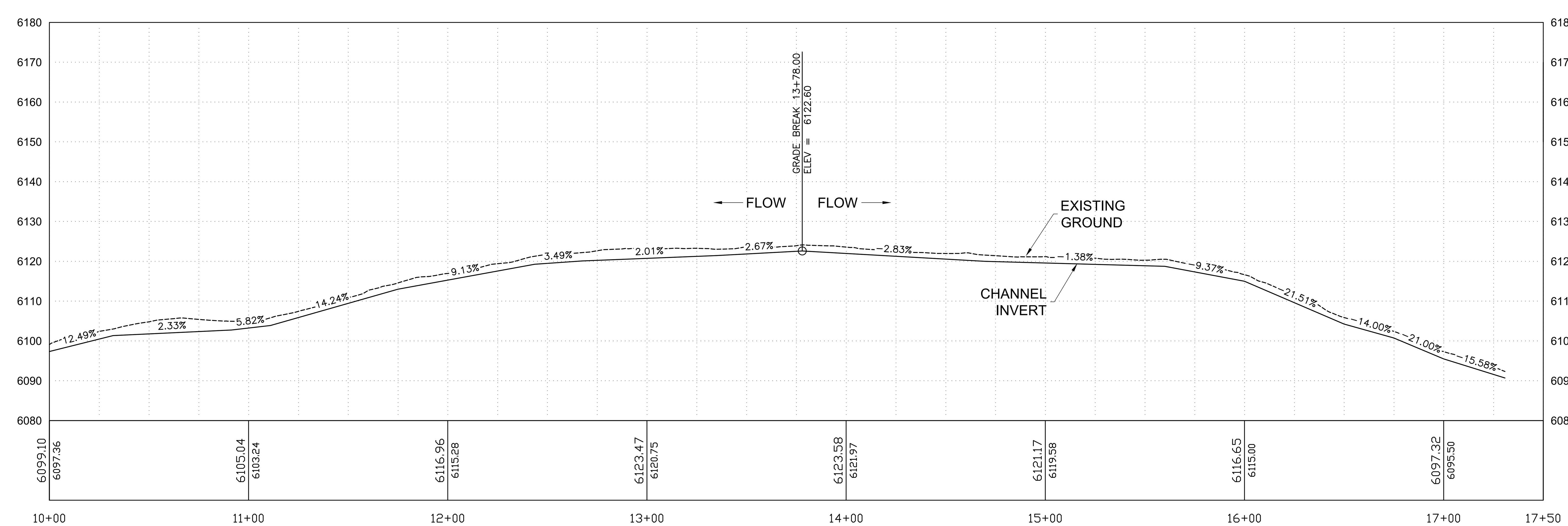
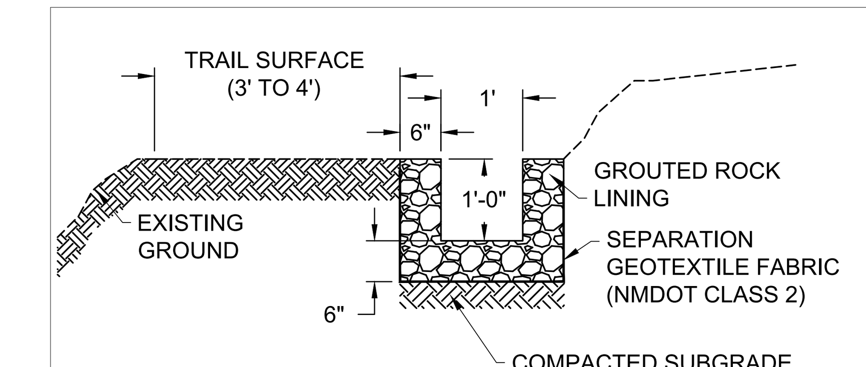


KEYED NOTES

1. ~~ICE HOUSE UPPER INTERCEPTOR IS TRAPEZOIDAL 1 FT DEEP AND 1 FT WIDE, WITH 2:1 SIDE SLOPES.~~

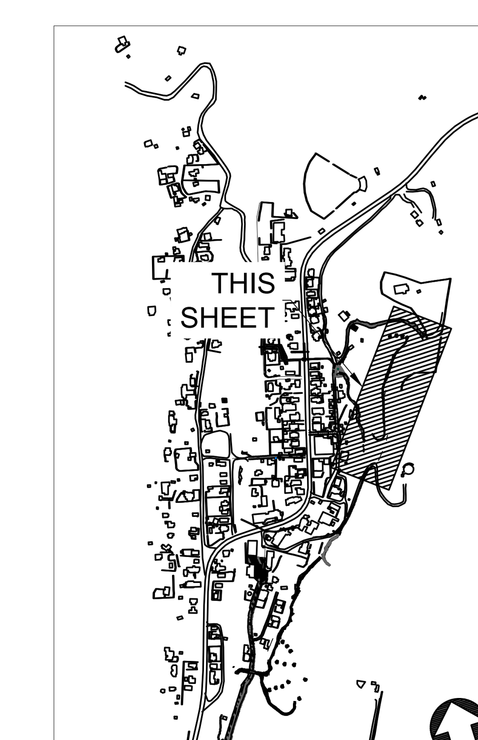
CONSTRUCTION NOTES



ICE HOUSE UPPER INTERCEPTOR
TYPICAL SECTION (NTS)

0 40' 80'
HORIZONTAL

0 20' 40'
VERTICAL



KEY MAP

NO.	DATE	APPR.	REVISION	NO.	DATE	APPR.	REVISION
A	9/24/21		ISSUED FOR REVIEW				
B	10/26/22		NM EMNRD-AML REVISIONS				

VILLAGE OF MADRID, NM
STORM WATER & EROSION CONTROL PROJECT
MADRID NEW MEXICO

WESTON SOLUTIONS
ALBUQUERQUE NEW MEXICO

		DATE	CLIENT APPROVALS	DATE
CHECKED	SC	AUG 23		
DES. ENG.	SC/RGE/AMB	AUG 23		
PROJ. ENG.	RGE	AUG 23		
PROJ. MGR.	SC	AUG 23		
APPROVED				
APPROVED				

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CONSTRUCTION

ICE HOUSE ROAD/MADRID ARROYO AREA
ICE HOUSE UPPER INTERCEPTOR
PLAN AND PROFILE

DRAWN: RW | DATE: AUG 23 | DWG. NO.: C007 | REV. NO.: B
SCALE: | W.O. NO.: 15740.001.003 | SHT 19 OF 48

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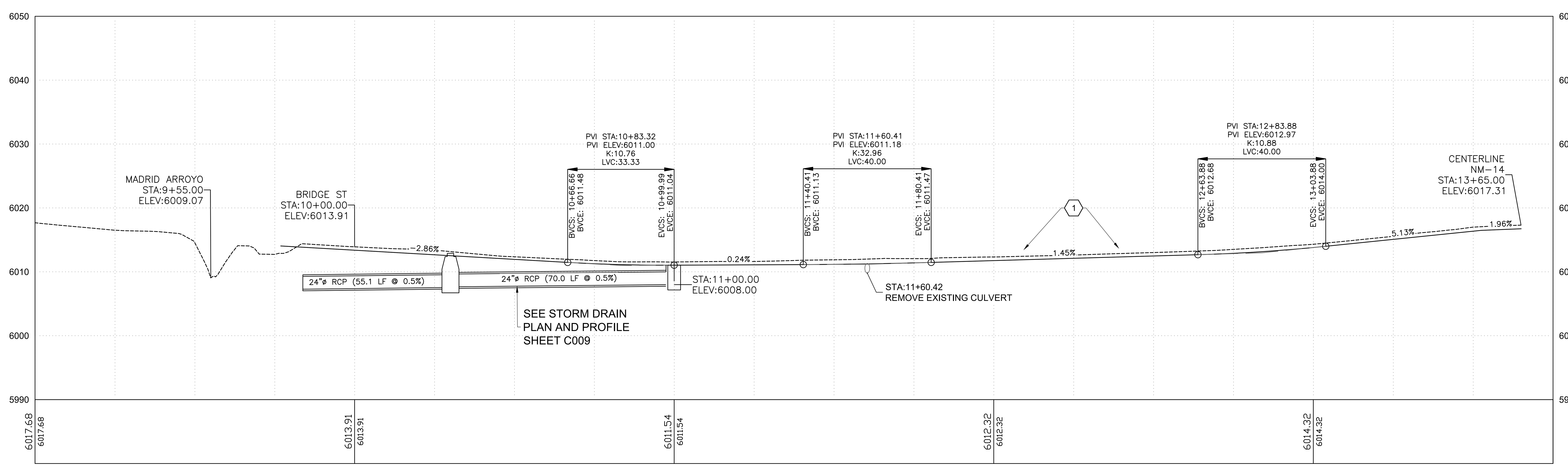
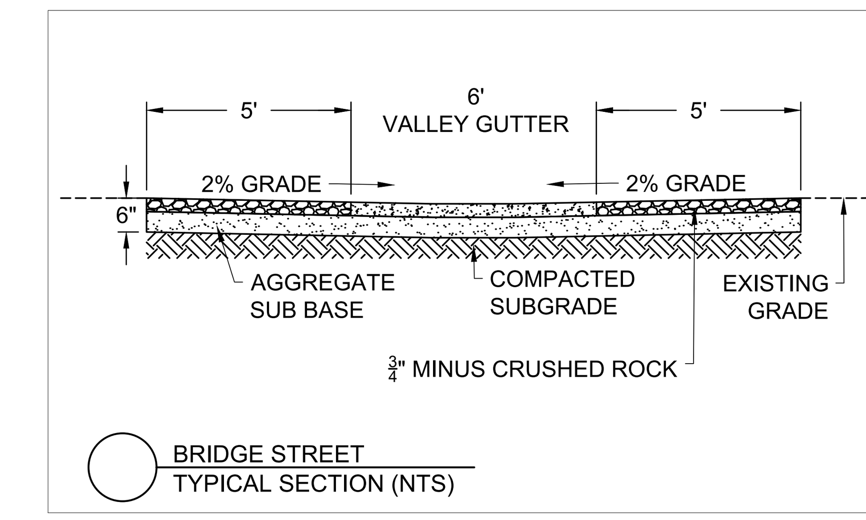


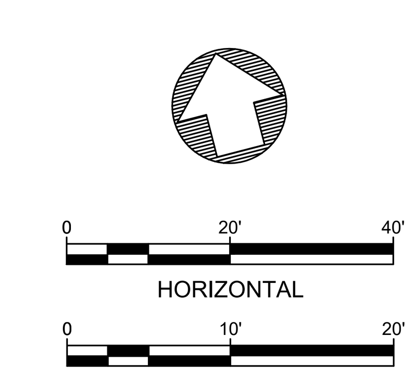
KEYED NOTES

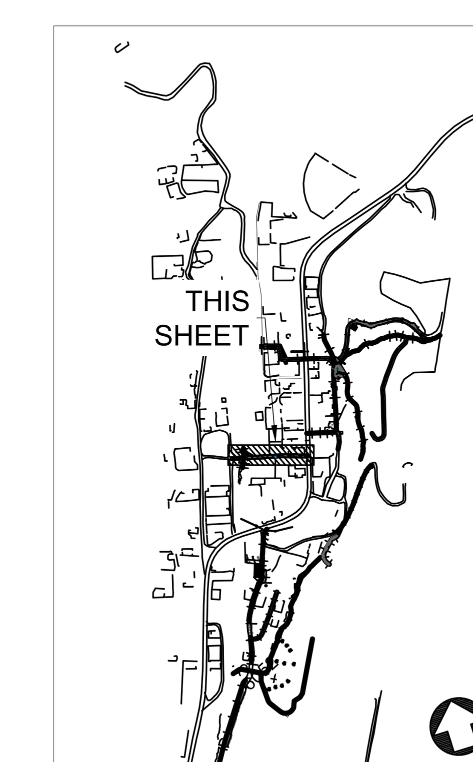
1. 6' WIDE VALLEY GUTTER. SEE DETAIL 5 ON SHEET G012.

CONSTRUCTION NOTES



BRIDGE STREET
TYPICAL SECTION (NTS)





KEY MAP

NO.	DATE	APPR.	REVISION
A	9/24/21		ISSUED FOR REVIEW
B	10/26/22		NM EMNRD-AML REVISIONS

VILLAGE OF MADRID, NM
STORM WATER & EROSION CONTROL PROJECT

MADRID — NEW MEXICO

WESTON SOLUTIONS

ALBUQUERQUE — NEW MEXICO

		DATE
CHECKED	SC	AUG 23
DES. ENG.	SC/RGE/AMB	AUG 23
PROJ. ENG.	RGE	AUG 23
PROJ. MGR.	SC	AUG 23
APPROVED		
APPROVED		

CLIENT APPROVALS — DATE

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NOT FOR
CONSTRUCTION

ICE HOUSE ROAD/MADRID ARROYO AREA
BRIDGE STREET
PLAN AND PROFILE

DRAWN	DATE	DWG. NO.	REV. NO.
RW	AUG 23	C008	B
SCALE	W.O. NO. 15740.001.003	SHT 20 OF 48	

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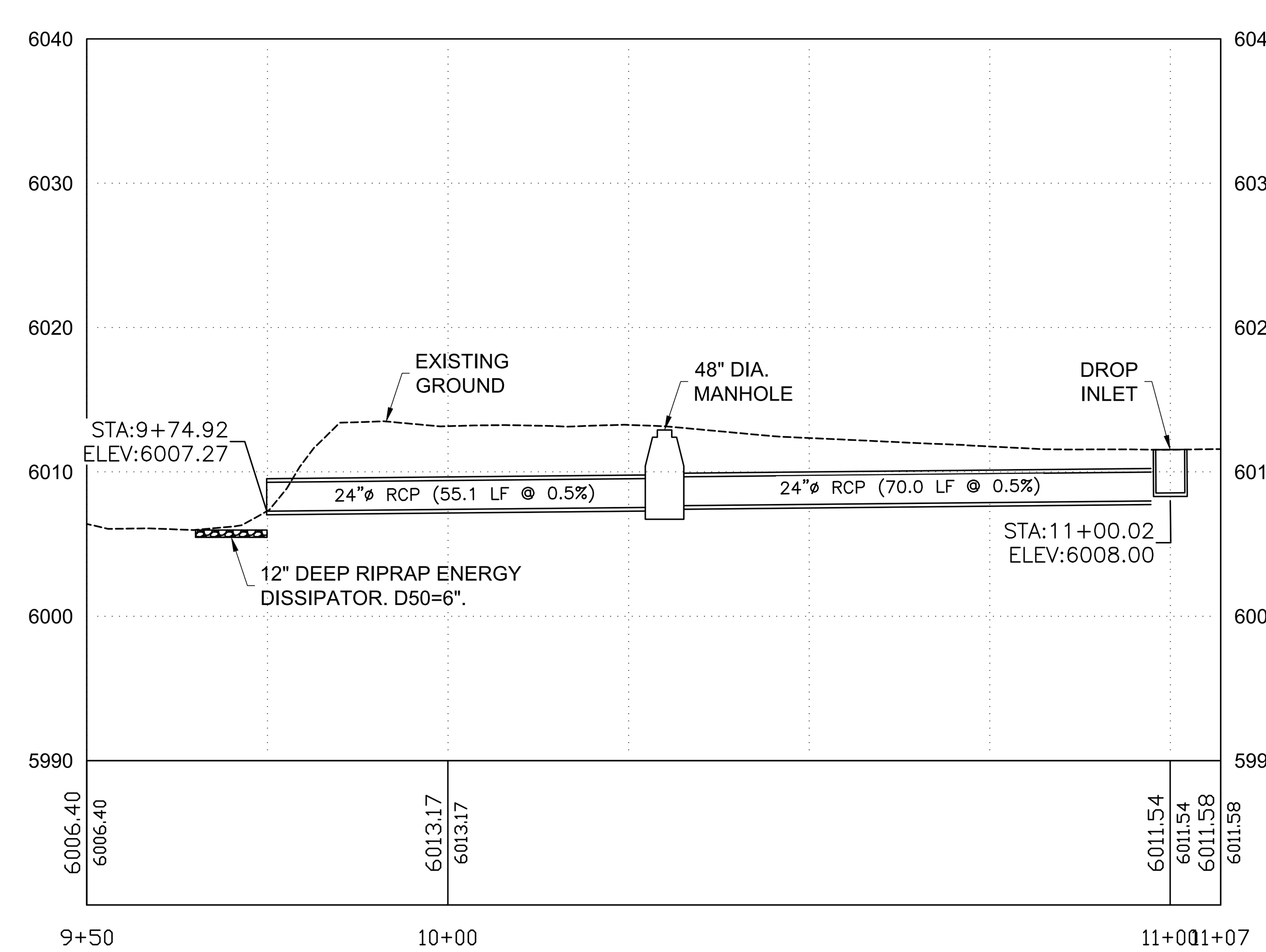
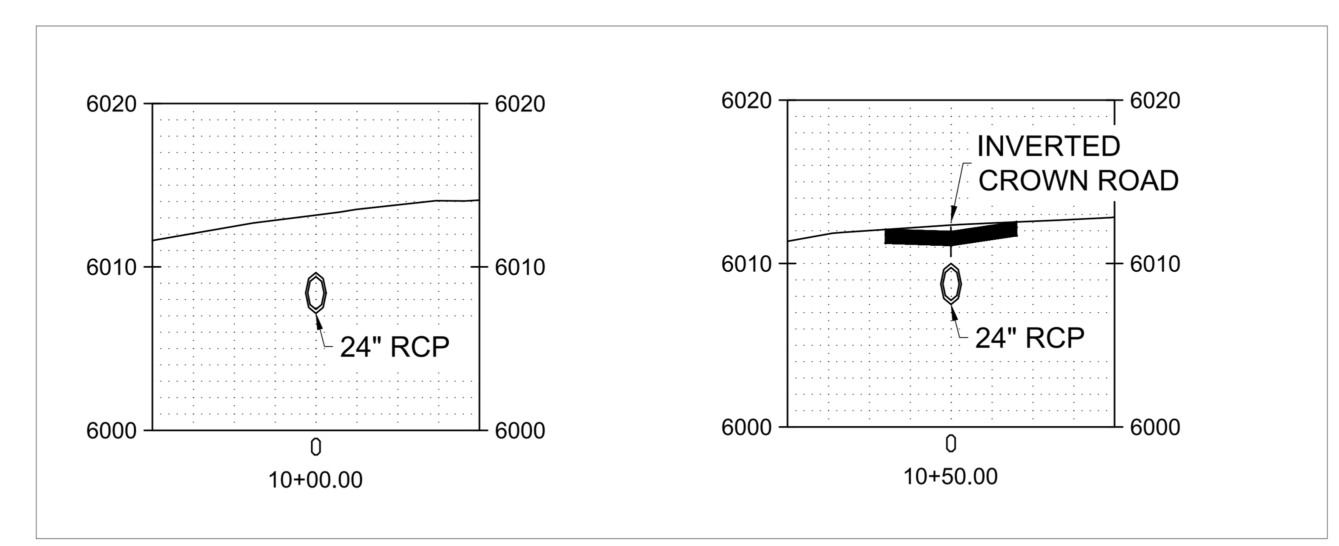
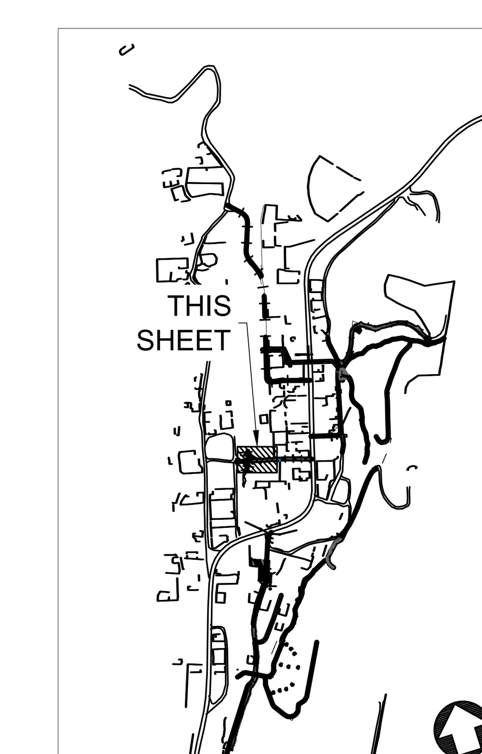




KEYED NOTES

CONSTRUCTION NOTES

0 20' 40'
HORIZONTAL
0 10' 20'
VERTICAL



KEY MAP

NO.	DATE	APPR.	REVISION
A	9/24/21		ISSUED FOR REVIEW
B	10/26/22		NM EMNRD-AML REVISIONS

VILLAGE OF MADRID, NM
STORM WATER & EROSION CONTROL PROJECT
MADRID NEW MEXICO
WESTON SOLUTIONS
ALBUQUERQUE NEW MEXICO

		DATE
CHECKED	SC	AUG 23
DES. ENG.	SC/RGE/AMB	AUG 23
PROJ. ENG.	RGE	AUG 23
PROJ. MGR.	SC	AUG 23
APPROVED		
APPROVED		

CLIENT APPROVALS DATE

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CONSTRUCTION

ICE HOUSE ROAD/MADRID ARROYO AREA
BRIDGE STREET STORM DRAIN
PLAN AND PROFILE

DRAWN: RW
DATE: AUG 23
DWG. NO.: C009
REV. NO.: B
SCALE:
W.O. NO.: 15740.001.003
SHT 21 OF 48

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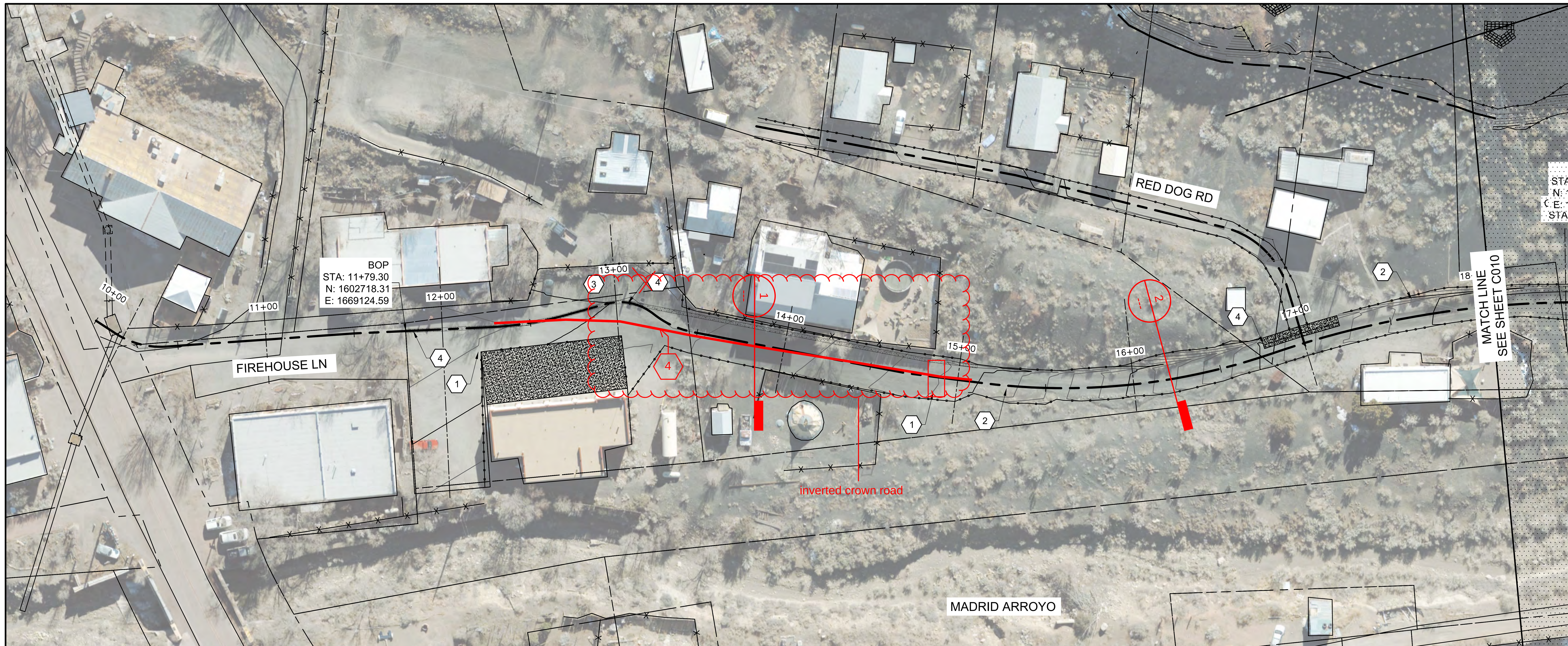
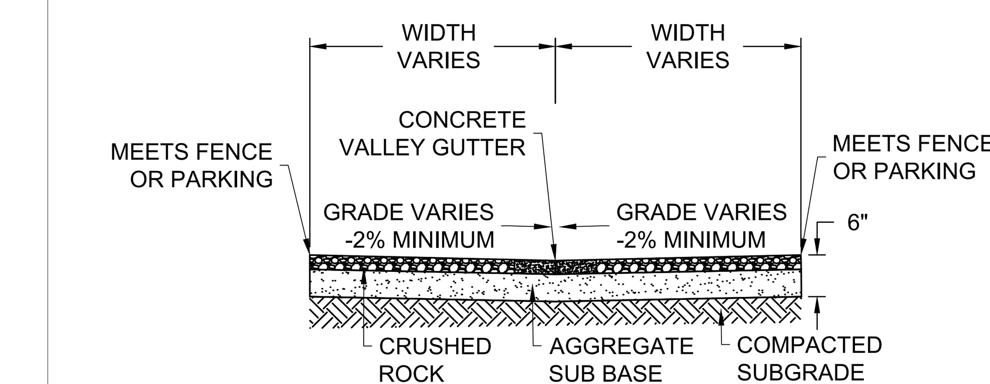


KEYED NOTES

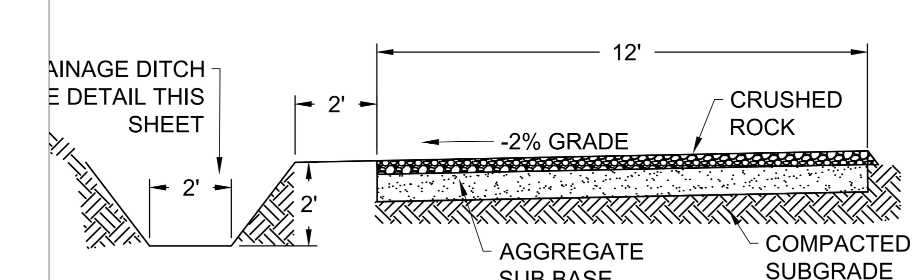
1. 24-FOOT WIDE CROSS-SLOPED GRAVEL ROAD.
2. 12-FOOT WIDE CROSS-SLOPED GRAVEL ROAD WITH V-DITCH 1 FOOT DEEP, 2:1 SIDE SLOPES, AND ROCK ARMORED.
3. DRIVE TURNOUT.
4. 2-FOOT WIDE CONCRETE VALLEY GUTTER

CONSTRUCTION NOTES

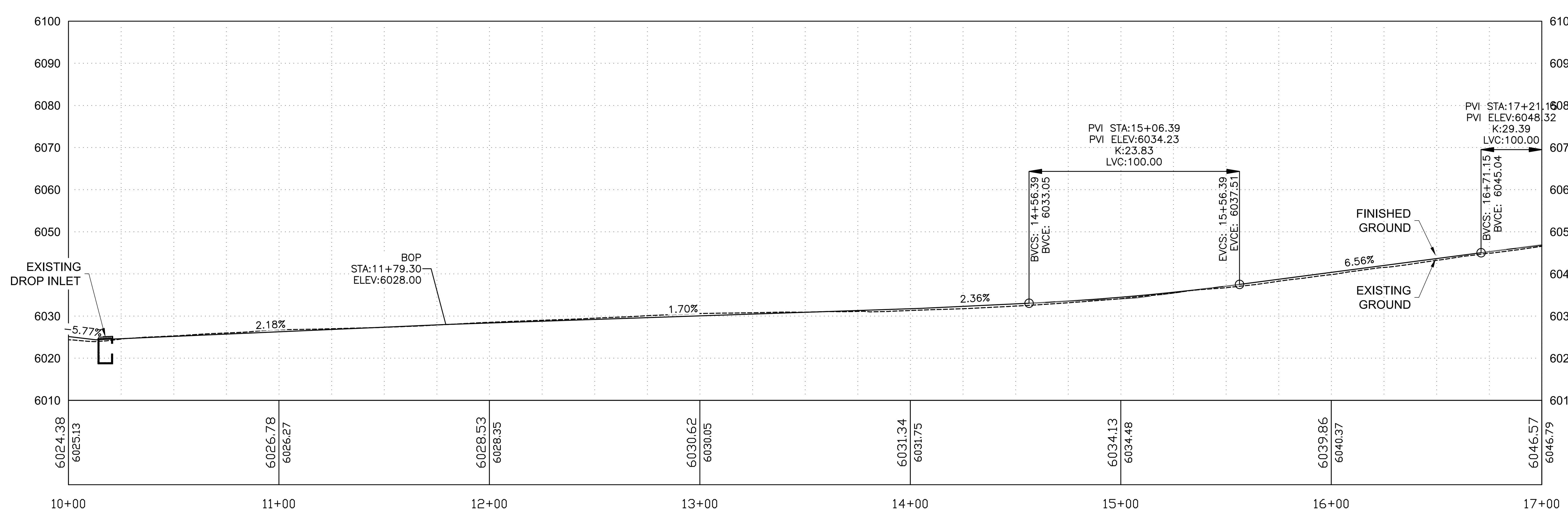
A. BUILD TYPICAL CONCRETE VALLEY GUTTER AT INTERSECTION OF FIREHOUSE LANE AND RED DOG ROAD. SEE DETAIL 5 ON SHEET G012.

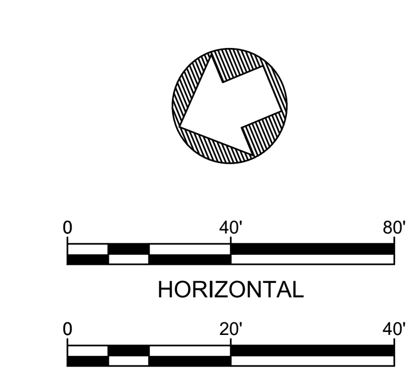


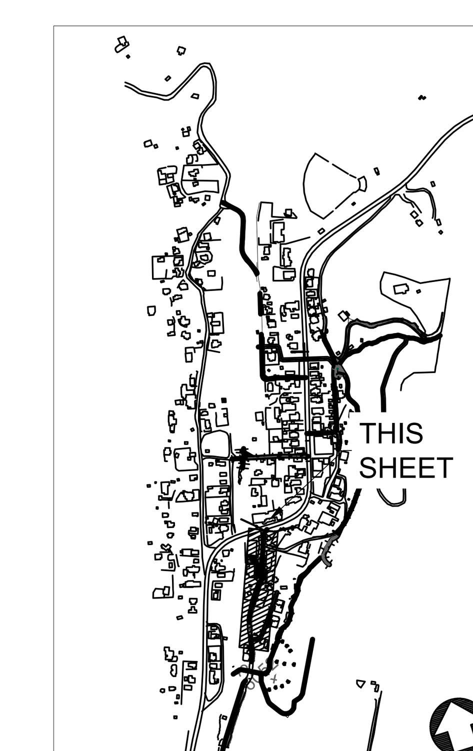
1 FIREHOUSE LN INVERTED CROWN TYPICAL SECTION (NTS) STATION 13+00 TO 15+00



2 FIREHOUSE LN CROSS SLOPE TYPICAL SECTION (NTS) STATION XX+XX







KEY MAP

NO.	DATE	APPR.	REVISION
A	9/24/21		ISSUED FOR REVIEW
B	10/26/22		NM EMNRD-AML REVISIONS

VILLAGE OF MADRID, NM
STORM WATER & EROSION CONTROL PROJECT
MADRID NEW MEXICO

WESTON SOLUTIONS
ALBUQUERQUE NEW MEXICO

		DATE
CHECKED	SC	AUG 23
DES. ENG.	SC/RGE/AMB	AUG 23
PROJ. ENG.	RGE	AUG 23
PROJ. MGR.	SC	AUG 23
APPROVED		
APPROVED		

CLIENT APPROVALS | DATE

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CONSTRUCTION

FIREHOUSE LANE AREA
FIREHOUSE LANE
PLAN AND PROFILE (1 OF 2)

DRAWN: RW | DATE: AUG 23 | DWG. NO. C010 | REV. NO. B
SCALE: | W.O. NO. 15740.001.003 | SHT 22 OF 48

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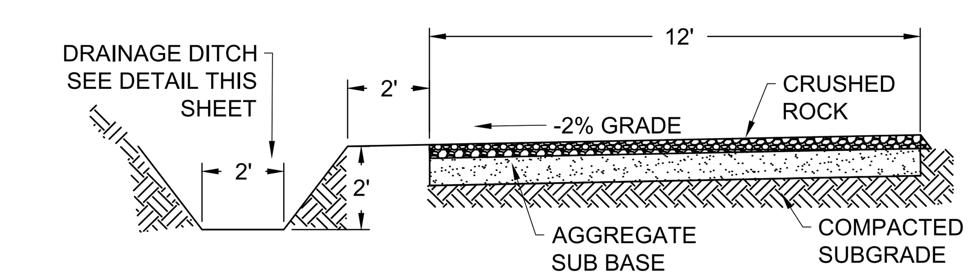
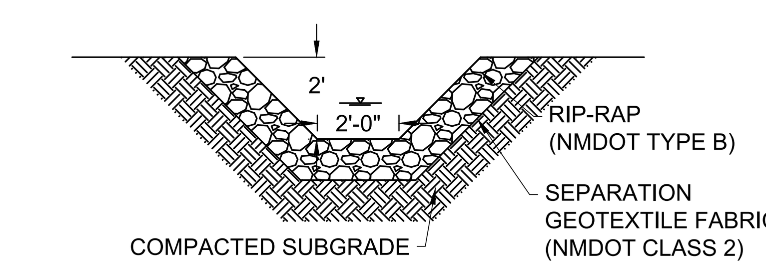
KEYED NOTES

1. 12-FOOT WIDE CROWNED GRAVEL ROAD WITH TRAPEZOID CHANNEL 2-FOOT DEEP, 2-FOOT BOTTOM WIDTH, 2:1 SIDE SLOPES, AND ARMORED WITH ROCK.
2. 12-FOOT WIDE CROSS-SLOPED GRAVEL ROAD WITH V-DITCH 1 FOOT DEEP, 2:1 SIDE SLOPES, AND ROCK ARMORED.
3. TWO 24-INCH REINFORCED CONCRETE PIPES AND HEADWALLS.

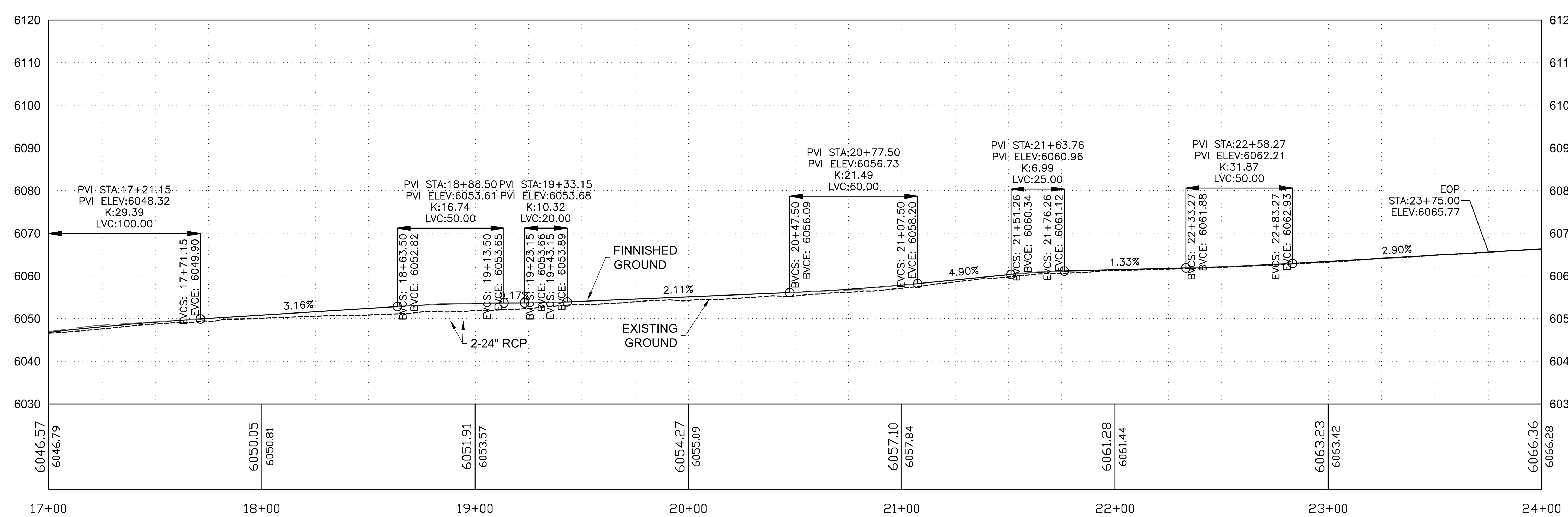
CONSTRUCTION NOTES

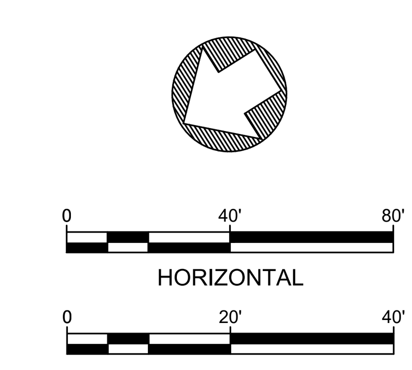


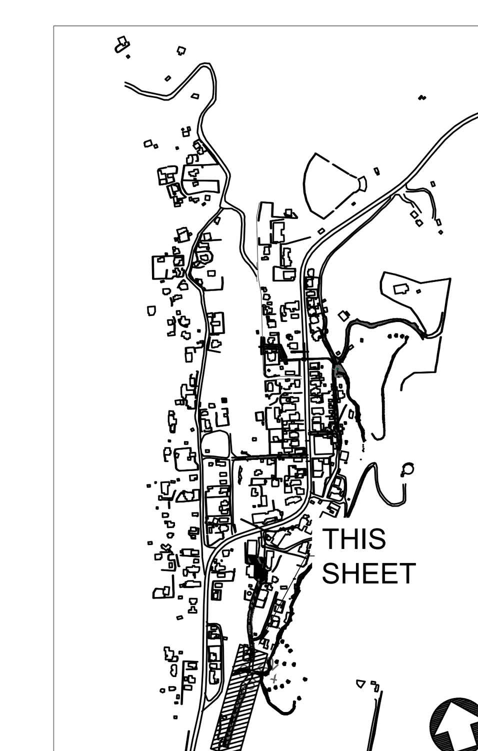
FIREHOUSE LN CROSS SLOPE
TYPICAL SECTION (NTS)



FIREHOUSE LN CHANNEL
TYPICAL SECTION (NTS)







KEY MAP

NO.	DATE	APPR.	REVISION
A	9/24/21		ISSUED FOR REVIEW
B	10/26/22		NM EMNRD-AML REVISIONS

VILLAGE OF MADRID, NM
STORM WATER & EROSION CONTROL PROJECT
MADRID — NEW MEXICO
WESTON SOLUTIONS
ALBUQUERQUE — NEW MEXICO

		DATE
CHECKED	SC	AUG 23
DES. ENG.	SC/RGE/AMB	AUG 23
PROJ. ENG.	RGE	AUG 23
PROJ. MGR.	SC	AUG 23
APPROVED		
APPROVED		

CLIENT APPROVALS — DATE

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NOT FOR
CONSTRUCTION

FIREHOUSE LANE AREA
FIREHOUSE LANE
PLAN AND PROFILE (2 OF 2)

DRAWN: RW — DATE: AUG 23 — DWG. NO.: C011 — REV. NO.: B
SCALE: — W.O. NO.: 15740.001.003 — SHT 23 OF 48

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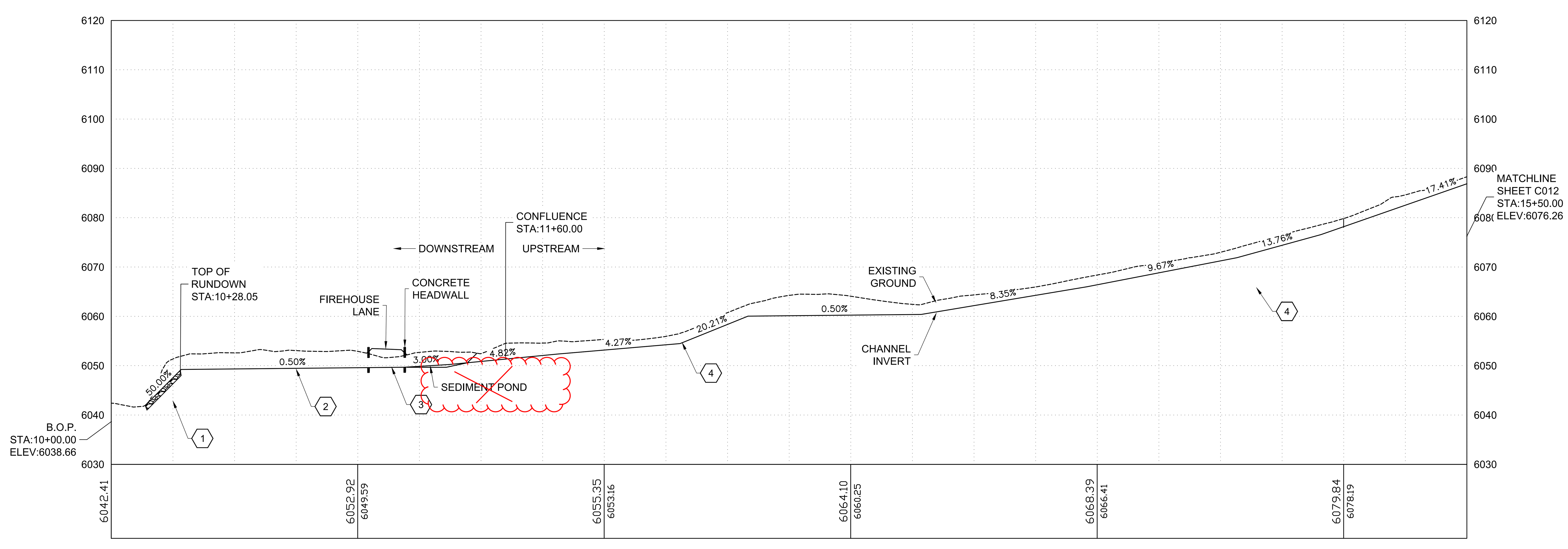
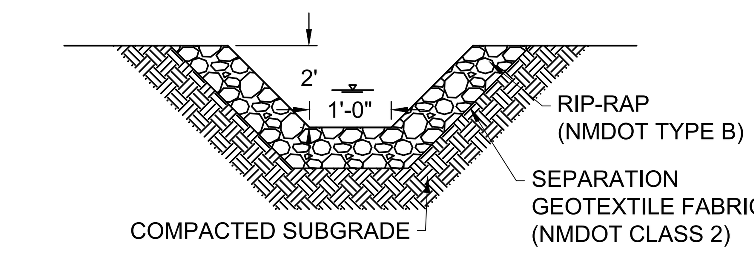


KEYED NOTES

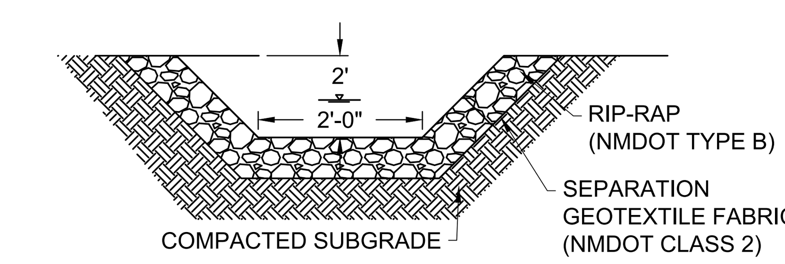
1. RIP APRON ENERGY DISSIPATOR
2. TRAPEZOID CHANNEL 2-FOOT DEEP, 2-FOOT BOTTOM WIDTH, 2:1 SIDE SLOPES, AND ARMORED WITH NMDOT TYPE B RIPRAP. SEE DETAIL ON DWG G007.
3. TWO 24-INCH REINFORCED CONCRETE PIPES AND END SECTIONS.
4. TRAPEZOIDAL CHANNEL 2 FOOT DEEP, 1-FOOT BOTTOM WIDTH, 2:1 SIDE SLOPES AND ARMORED WITH NMDOT TYPE B RIPRAP. SEE SHEET G007 FOR TYPICAL SECTION.

CONSTRUCTION NOTES

A. FIREHOUSE UPPER INTERCEPTOR IS TRAPEZOIDAL 2 FT DEEP AND 1 FT WIDE, WITH 2:1 SIDE SLOPES.

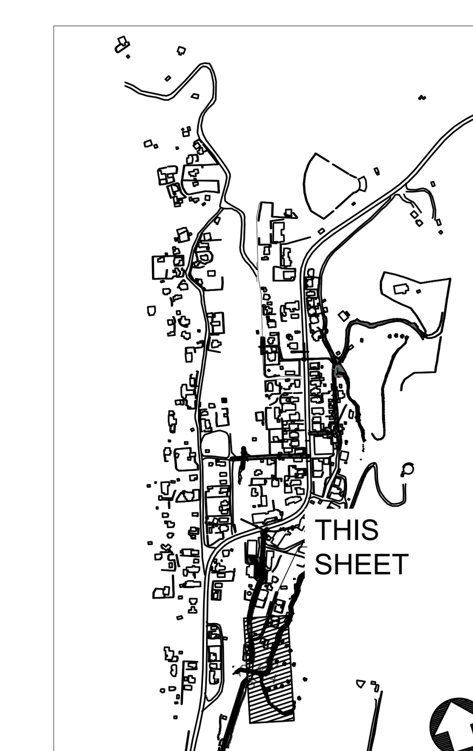


FIREHOUSE INTERCEPTOR
UPSTREAM TYPICAL SECTION (NTS)



FIREHOUSE INTERCEPTOR
DOWNSTREAM TYPICAL SECTION (NTS)

0 30' 60'
HORIZONTAL
0 15' 30'
VERTICAL



KEY MAP

NO.	DATE	APPR.	REVISION
A	9/24/21		ISSUED FOR REVIEW
B	10/26/22		NM EMNRD-AML REVISIONS

VILLAGE OF MADRID, NM
STORM WATER & EROSION CONTROL PROJECT
MADRID NEW MEXICO
WESTON SOLUTIONS
ALBUQUERQUE NEW MEXICO

		DATE
CHECKED	SC	AUG 23
DES. ENG.	SC/RGE/AMB	AUG 23
PROJ. ENG.	RGE	AUG 23
PROJ. MGR.	SC	AUG 23
APPROVED		
APPROVED		

CLIENT APPROVALS DATE

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CONSTRUCTION

FIREHOUSE LANE AREA
FIREHOUSE INTERCEPTOR
PLAN AND PROFILE (1 OF 2)

DRAWN RW | DATE AUG 23 | DWG. NO. C013 | REV. NO. B
SCALE | W.O. NO. 15740.001.003 | SHT 21 OF 48

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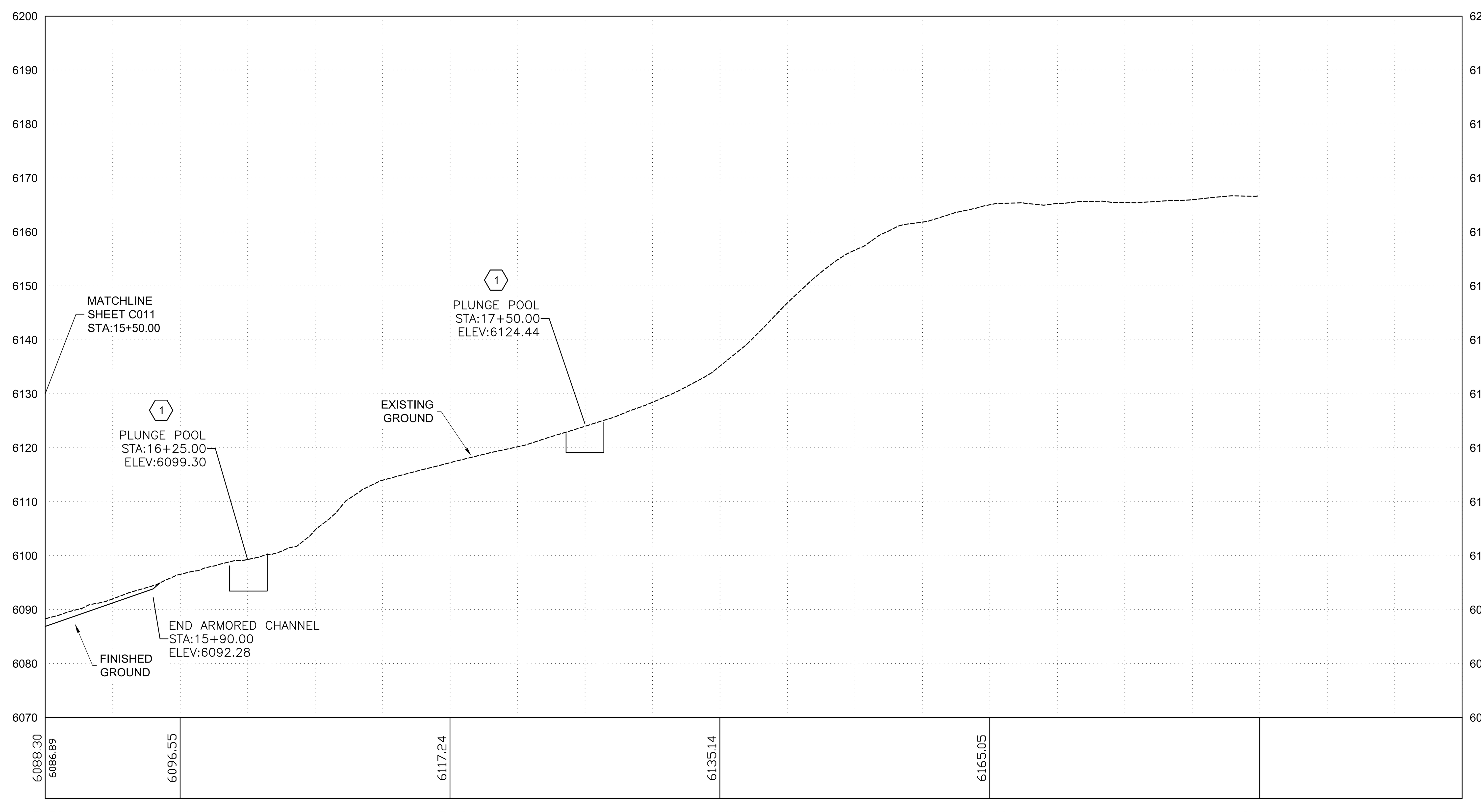
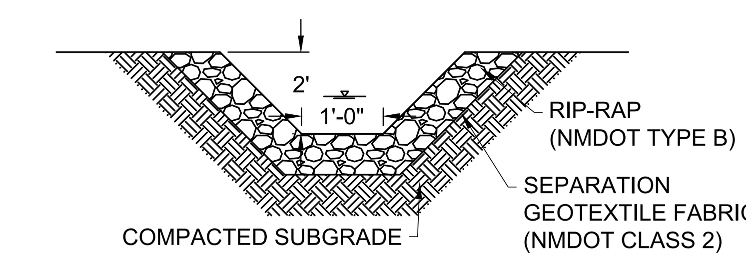
KEYED NOTES

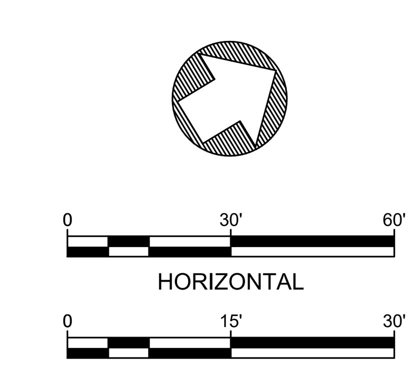
1. PLUNGE POOL ENERGY DISSIPATER. SEE DETAIL 1 ON SHEET G012.

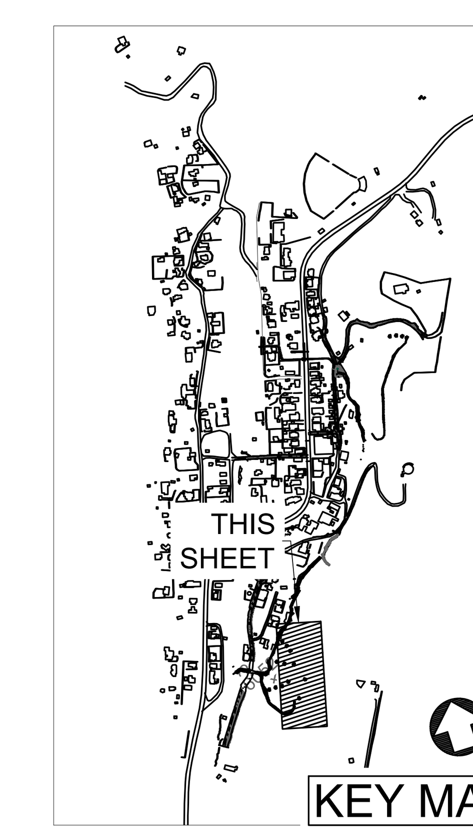
CONSTRUCTION NOTES





FIREHOUSE INTERCEPTOR
TYPICAL SECTION (NTS)





KEY MAP

NO.	DATE	APPR.	REVISION
A	9/24/21		ISSUED FOR REVIEW
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VILLAGE OF MADRID, NM
STORM WATER & EROSION CONTROL PROJECT
MADRID NEW MEXICO

WESTON SOLUTIONS
ALBUQUERQUE NEW MEXICO

		DATE	CLIENT APPROVALS	DATE
CHECKED	SC	AUG 23		
DES. ENG.	SC/RGE/AMB	AUG 23		
PROJ. ENG.	RGE	AUG 23		
PROJ. MGR.	SC	AUG 23		
APPROVED				
APPROVED				

DRAFT
NOT FOR
CONSTRUCTION

FIREHOUSE LANE AREA
FIREHOUSE INTERCEPTOR
PLAN AND PROFILE (2 OF 2)

DRAWN	DATE	DWG. NO.	REV. NO.
RW	AUG 23	C014	B
SCALE	W.O. NO. 15740.001.003	SHT 22 OF 48	

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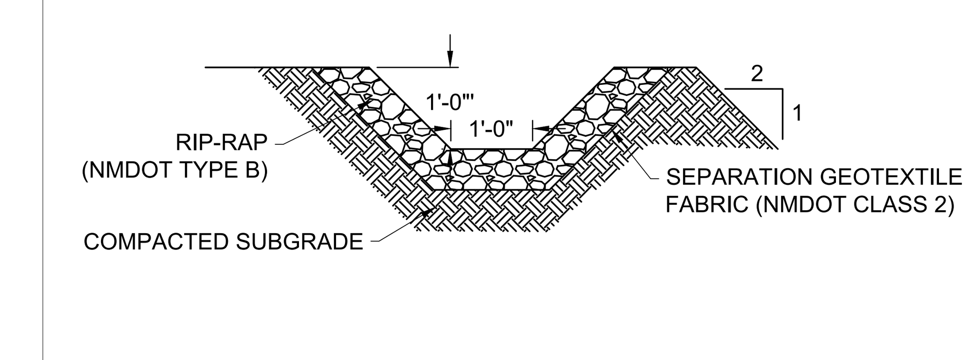
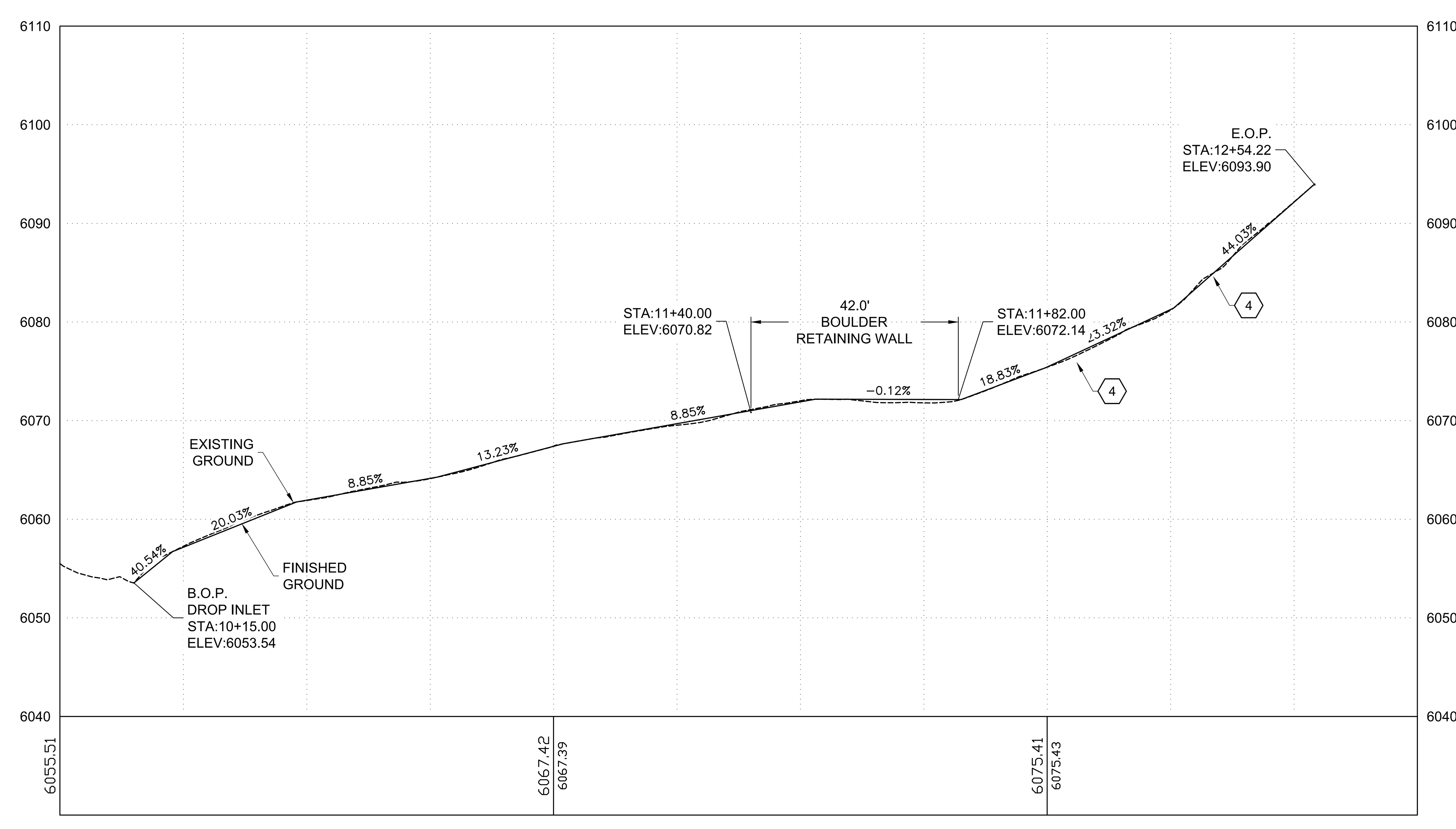
KEYED NOTES

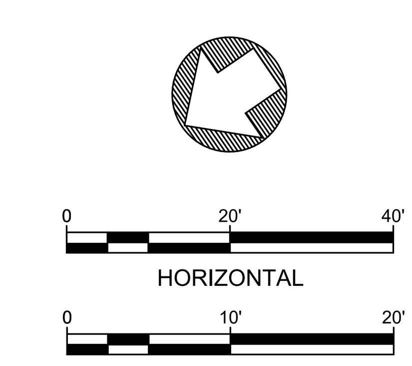
1. TRAPEZOID CHANNEL 1-FOOT DEEP, 1 FOOT WIDE, 2:1 SIDE SLOPES, AND ROCK LINED.
2. BOULDER RETAINING WALL.
3. EXISTING POWER POLES (ABANDONED)
4. EXISTING ROCK DROP STRUCTURE

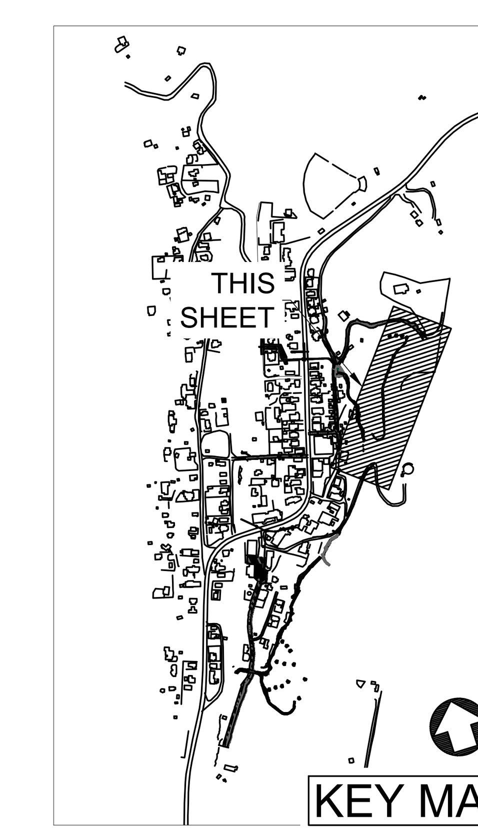
CONSTRUCTION NOTES



MISSING LINK CHANNEL
TYPICAL SECTION (NTS)







NO.	DATE	APPR.	REVISION	NO.	DATE	APPR.	REVISION
A	9/24/21		ISSUED FOR REVIEW				
B	10/26/22		NM EMNRD-AML REVISIONS				

VILLAGE OF MADRID, NM
STORM WATER & EROSION CONTROL PROJECT

MADRID — NEW MEXICO

WESTON SOLUTIONS

ALBUQUERQUE — NEW MEXICO

		DATE	CLIENT APPROVALS	DATE
CHECKED	SC	AUG 23		
DES. ENG.	SC/RGE/AMB	AUG 23		
PROJ. ENG.	RGE	AUG 23		
PROJ. MGR.	SC	AUG 23		
APPROVED				
APPROVED				

DRAFT
NOT FOR
CONSTRUCTION

FIREHOUSE LANE AREA
MISSING LINK CHANNEL
PLAN AND PROFILE

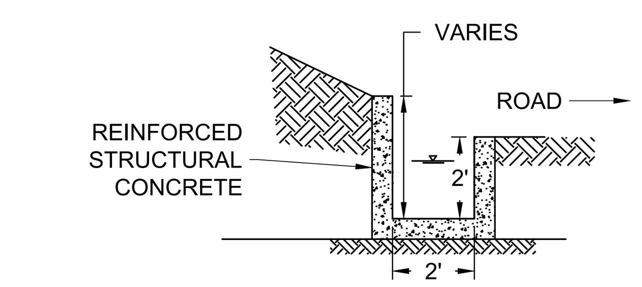
DRAWN	DATE	DWG. NO.	REV. NO.
RW	AUG 23	C014	B
SCALE	W.O. NO. 15740.001.003	SHT 26 OF 48	

C:\Users\waters\Documents\Madrid Stormwater\90\Firehouse Area PnPs.dwg October 18, 2023 - 11:39am

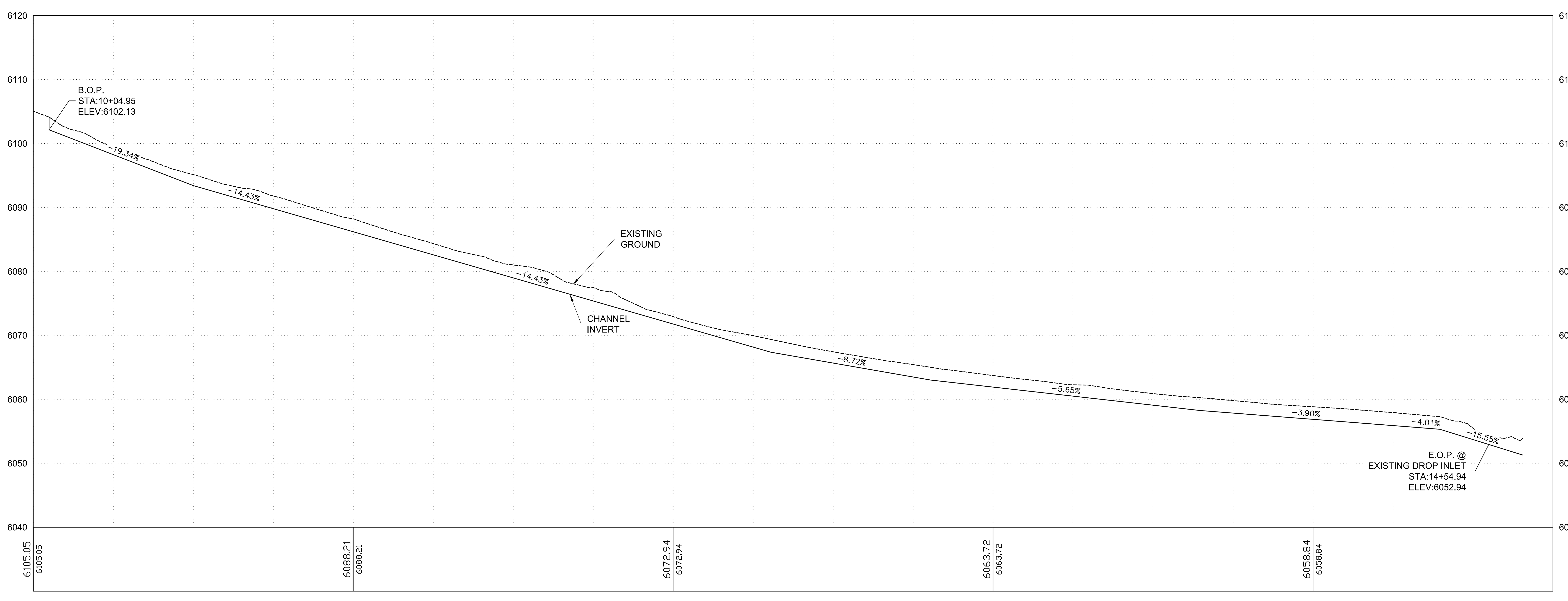
KEYED NOTES

1. 2'x2' RECTANGULAR CONCRETE DITCH

CONSTRUCTION NOTES

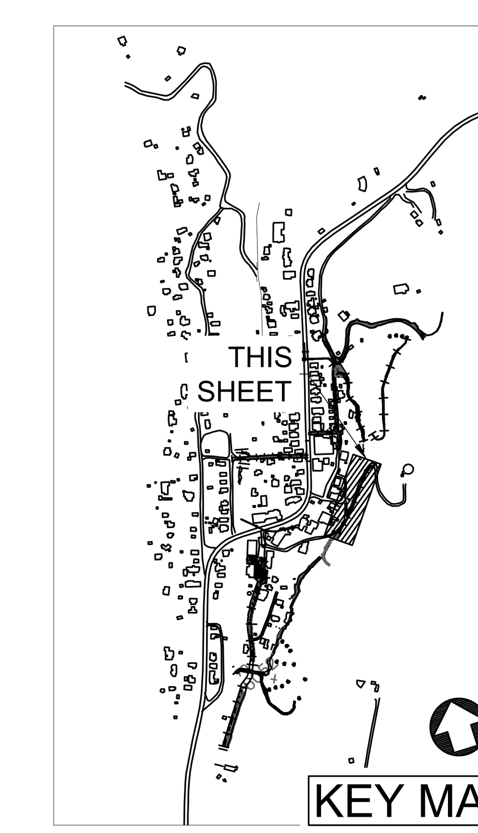


DOMINGUEZ ROAD CHANNEL
TYPICAL SECTION (NTS)



HORIZONTAL 0 20' 40'

VERTICAL 0 10' 20'



KEY MAP

NO.	DATE	APPR.	REVISION	NO.	DATE	APPR.	REVISION
A	9/24/21		ISSUED FOR REVIEW				
B	10/26/22		NM EMNRD-AML REVISIONS				

VILLAGE OF MADRID, NM
STORM WATER & EROSION CONTROL PROJECT

MADRID NEW MEXICO

WESTON SOLUTIONS

ALBUQUERQUE NEW MEXICO

		DATE	CLIENT APPROVALS	DATE
CHECKED	SC	AUG 23		
DES. ENG.	SC/RGE/AMB	AUG 23		
PROJ. ENG.	RGE	AUG 23		
PROJ. MGR.	SC	AUG 23		
APPROVED				
APPROVED				

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NOT FOR
CONSTRUCTION

EAST SLOPE SOUTH
DOMINGUEZ ROAD CHANNEL
PLAN AND PROFILE

DRAWN: RW | DATE: AUG 23 | DWG. NO.: C015 | REV. NO.: B
SCALE: | W.O. NO.: 15740.001.003 | SHT 27 OF 48

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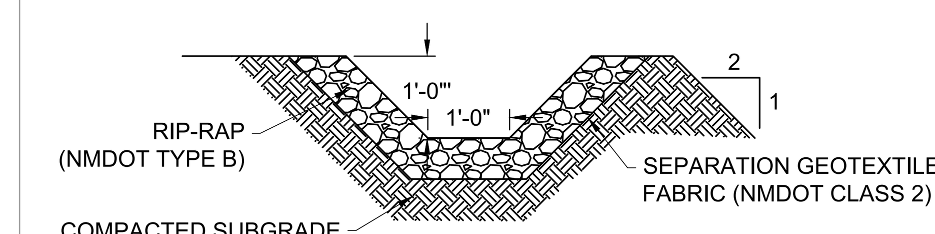
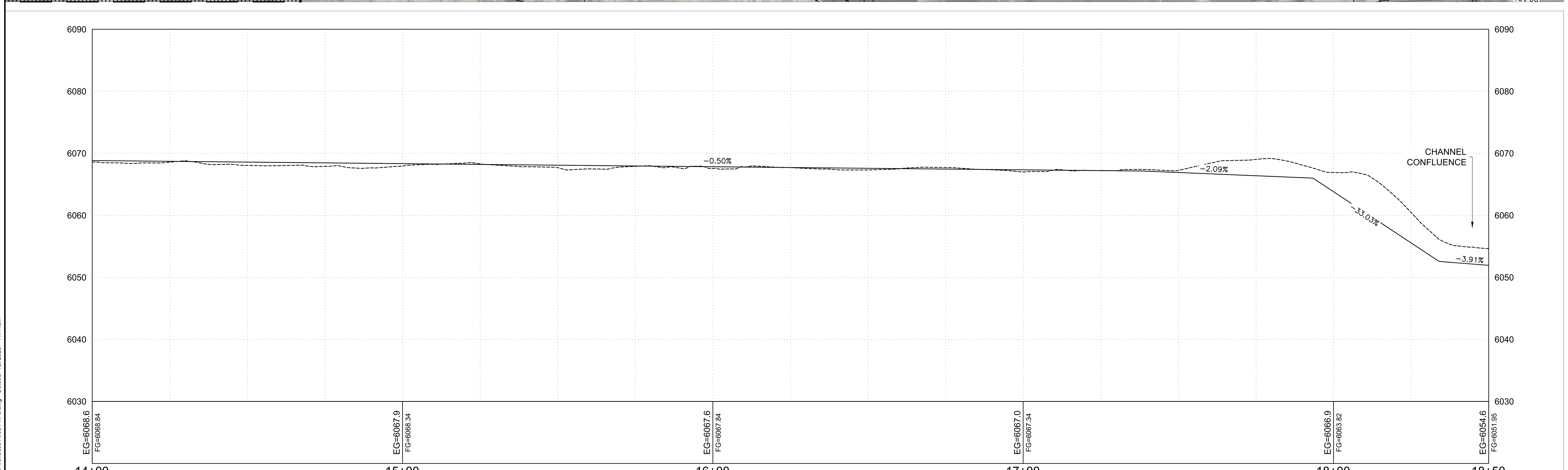
KEYED NOTES

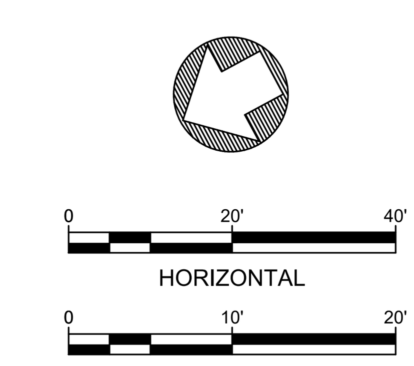
1. TRAPEZOIDAL CHANNEL 1 FT DEEP, 1 FT WIDE, 2:1 SIDE SLOPES.
2. BOULDER RETAINING WALL.
3. PLUNGE POOL.
4. CONFLUENCE CHANNEL

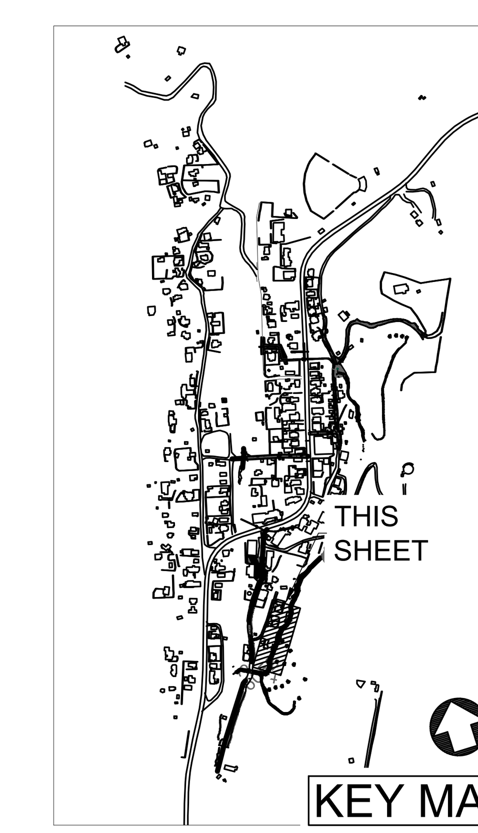
CONSTRUCTION NOTES



RED DOG INTERCEPTOR
TYPICAL SECTION (NTS)







NO.	DATE	APPR.	REVISION	NO.	DATE	APPR.	REVISION
A	9/24/21		ISSUED FOR REVIEW				
B	10/26/22		NM EMNRD-AML REVISIONS				

VILLAGE OF MADRID, NM
STORM WATER & EROSION CONTROL PROJECT

MADRID NEW MEXICO

WESTON SOLUTIONS

ALBUQUERQUE NEW MEXICO

		DATE	CLIENT APPROVALS	DATE
CHECKED	SC	AUG 23		
DES. ENG.	SC/RGE/AMB	AUG 23		
PROJ. ENG.	RGE	AUG 23		
PROJ. MGR.	SC	AUG 23		
APPROVED				
APPROVED				

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NOT FOR
CONSTRUCTION

EAST SLOPE SOUTH
RED DOG ROAD INTERCEPTOR
PLAN AND PROFILE (2 OF 2)

DRAWN	DATE	DWG. NO.	REV. NO.
RW	AUG 23	C018	B
SCALE	W.O. NO. 15740.001.003	SHT 30 OF 48	

C:\Users\waters\Documents\Madrid Stormwater\90\Firehouse Area PnPs.dwg October 18, 2023 - 11:41am

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NO.	DATE	APPR.	REVISION	NO.	DATE	APPR.	REVISION
A	9/24/21		ISSUED FOR REVIEW				
B	10/26/22		NM EMNRD-AML REVISIONS				

VILLAGE OF MADRID, NM
STORM WATER & EROSION CONTROL PROJECT

MADRID — NEW MEXICO

WESTON SOLUTIONS

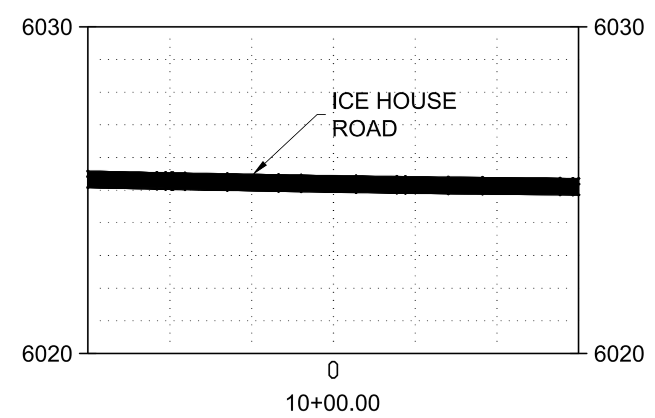
ALBUQUERQUE — NEW MEXICO

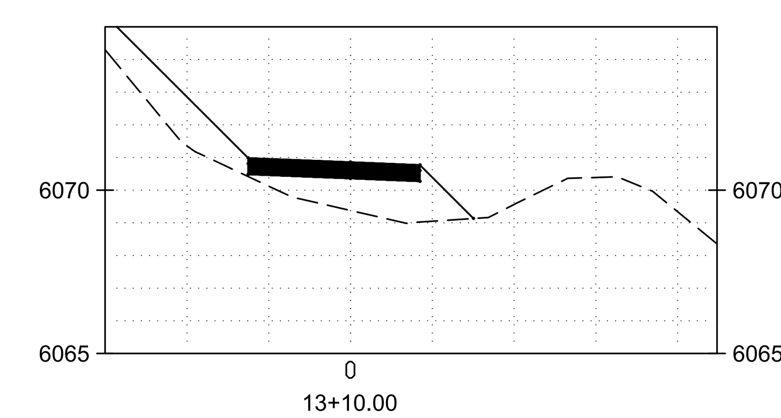
		DATE	CLIENT APPROVALS	DATE
CHECKED	SC	AUG 23		
DES. ENG.	SC/RGE/AMB	AUG 23		
PROJ. ENG.	RGE	AUG 23		
PROJ. MGR.	SC	AUG 23		
APPROVED				
APPROVED				

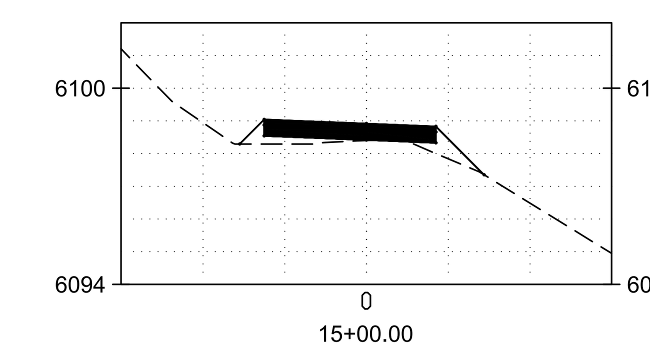
DRAFT
NOT FOR
CONSTRUCTION

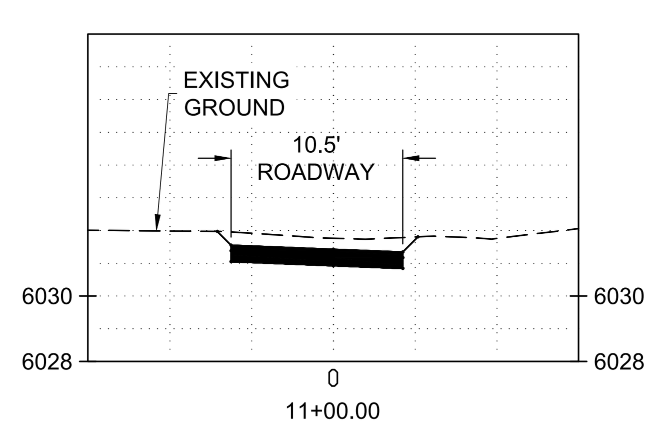
ICE HOUSE ROAD/MADRID ARROYO AREA
BETHLEHEM HILL ARROYO
CROSS SECTIONS

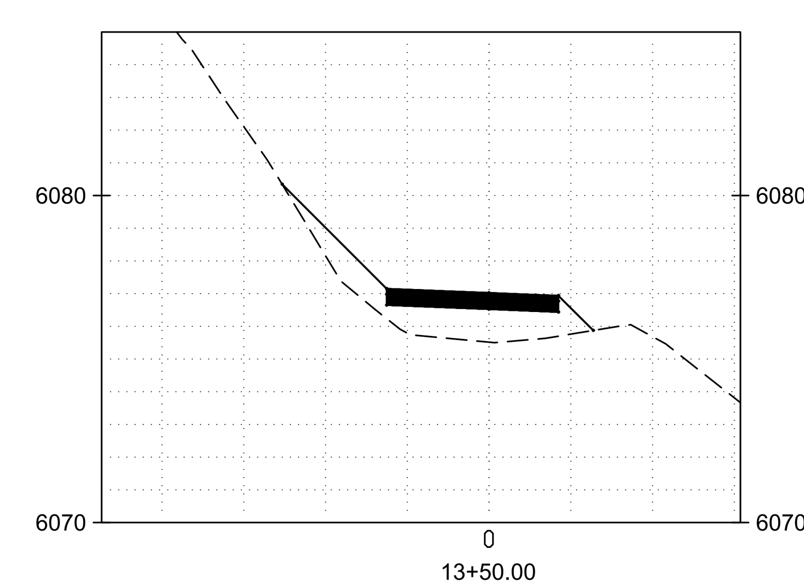
DRAWN	DATE	DWG. NO.	REV. NO.
RW	AUG 23	C101	B
SCALE	W.O. NO. 15740.001.003	SHT 31 OF 48	

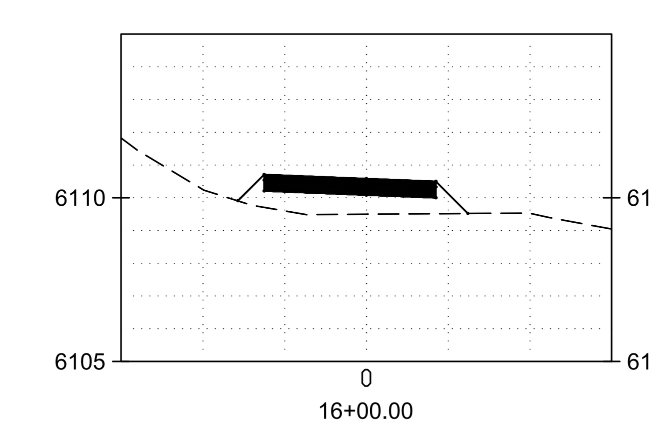


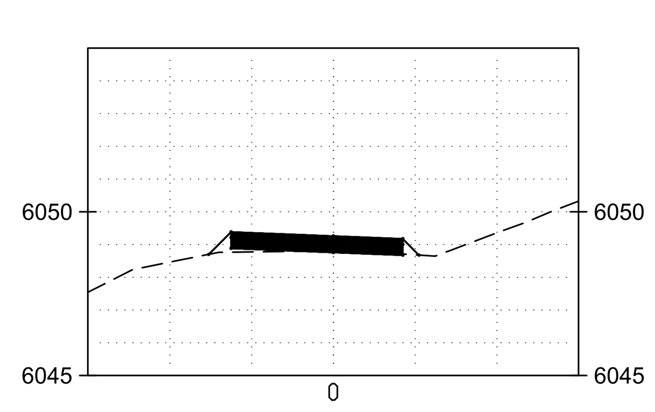


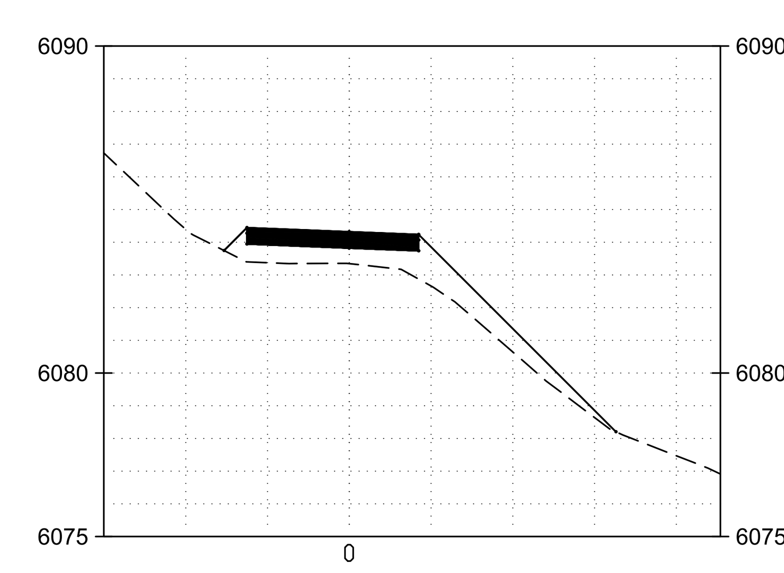


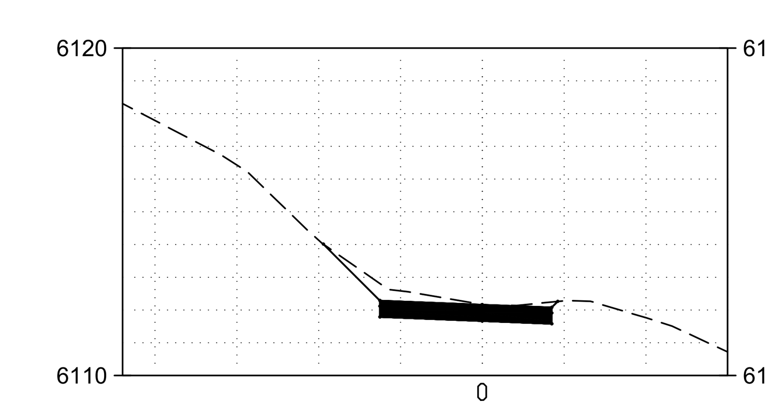


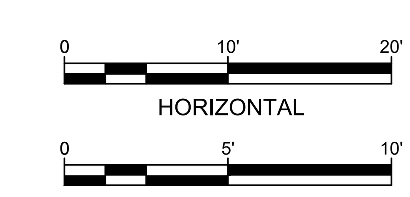












NO.	DATE	APPR.	REVISION	NO.	DATE	APPR.	REVISION
A	9/24/21		ISSUED FOR REVIEW				
B	10/26/22		NM EMNRD-AML REVISIONS				

VILLAGE OF MADRID, NM
STORM WATER & EROSION CONTROL PROJECT

MADRID NEW MEXICO

WESTON SOLUTIONS

ALBUQUERQUE NEW MEXICO

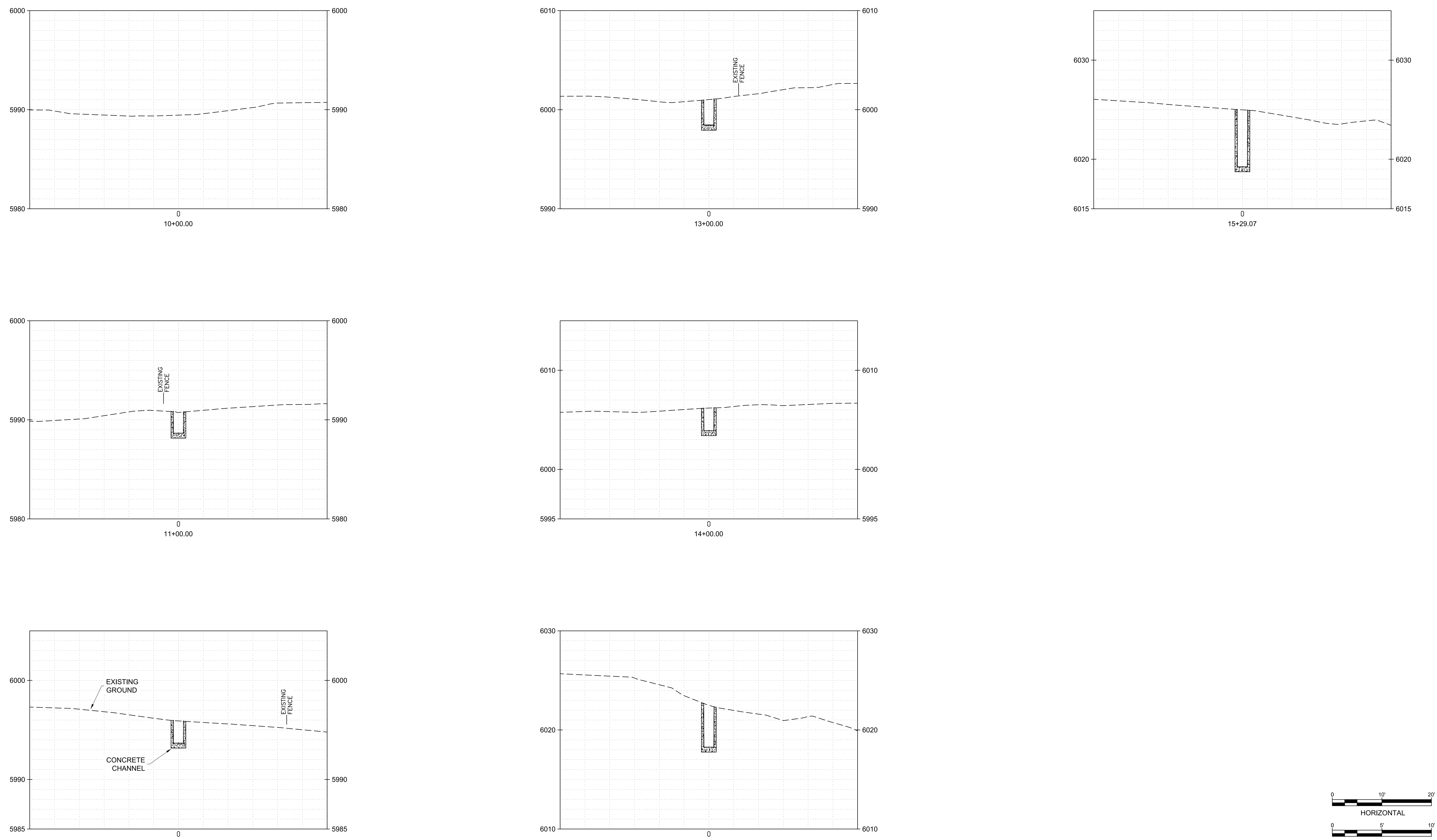
		DATE	CLIENT APPROVALS	DATE
CHECKED	SC	AUG 23		
DES. ENG.	SC/RGE/AMB	AUG 23		
PROJ. ENG.	RGE	AUG 23		
PROJ. MGR.	SC	AUG 23		
APPROVED				
APPROVED				

DRAFT
NOT FOR
CONSTRUCTION

ICE HOUSE ROAD/MADRID ARROYO AREA
BETHLEHEM HILL ROAD
CROSS SECTIONS

DRAWN	DATE	DWG. NO.	REV. NO.
RW	AUG 23	C102	B
SCALE	W.O. NO. 15740.001.003	SHT 32 OF 48	

C:\Users\waters\Documents\Madrid Stormwater\90\Ice House Area XSects.dwg October 18, 2023 - 12:17pm



NO.	DATE	APPR.	REVISION	NO.	DATE	APPR.	REVISION
A	9/24/21		ISSUED FOR REVIEW				
B	10/26/22		NM EMNRD-AML REVISIONS				

VILLAGE OF MADRID, NM
STORM WATER & EROSION CONTROL PROJECT

MADRID NEW MEXICO

WESTON SOLUTIONS

ALBUQUERQUE NEW MEXICO

		DATE	CLIENT APPROVALS	DATE
CHECKED	SC	AUG 23		
DES. ENG.	SC/RGE/AMB	AUG 23		
PROJ. ENG.	RGE	AUG 23		
PROJ. MGR.	SC	AUG 23		
APPROVED				
APPROVED				

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NOT FOR
CONSTRUCTION

ICE HOUSE ROAD/MADRID ARROYO AREA
ICE HOUSE CHANNEL
CROSS SECTIONS

DRAWN	DATE	DWG. NO.	REV. NO.
RW	AUG 23	C103	B
SCALE	W.O. NO. 15740.001.003	SHT 33 OF 48	

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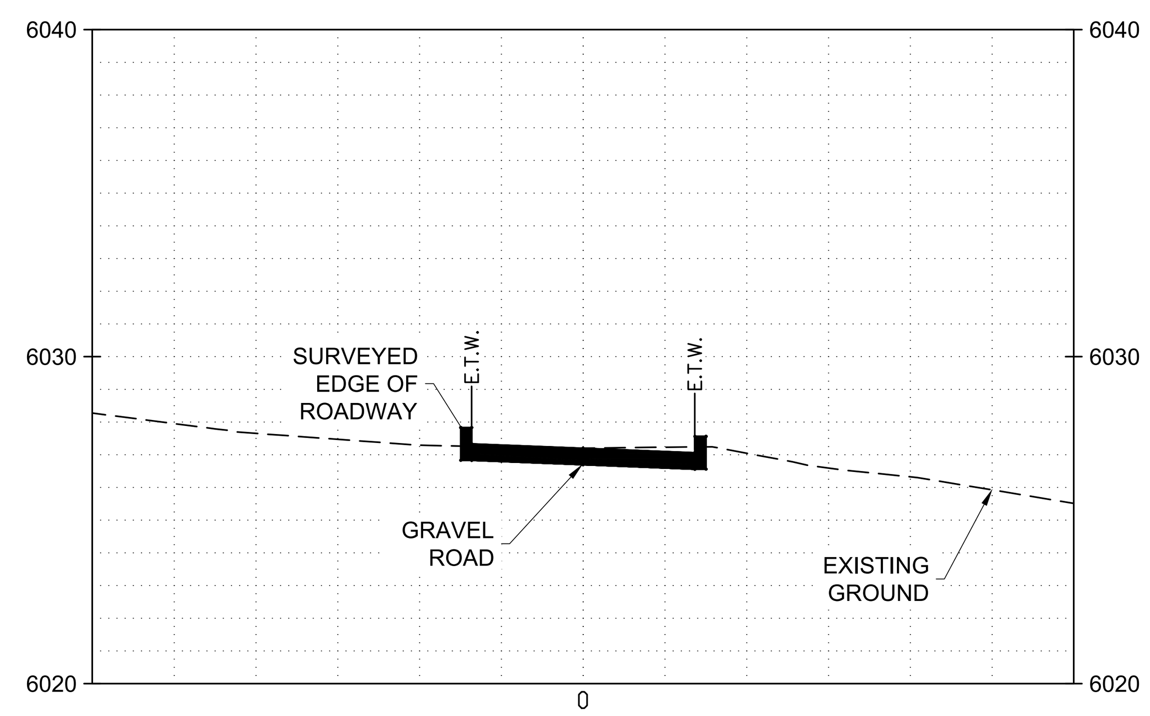

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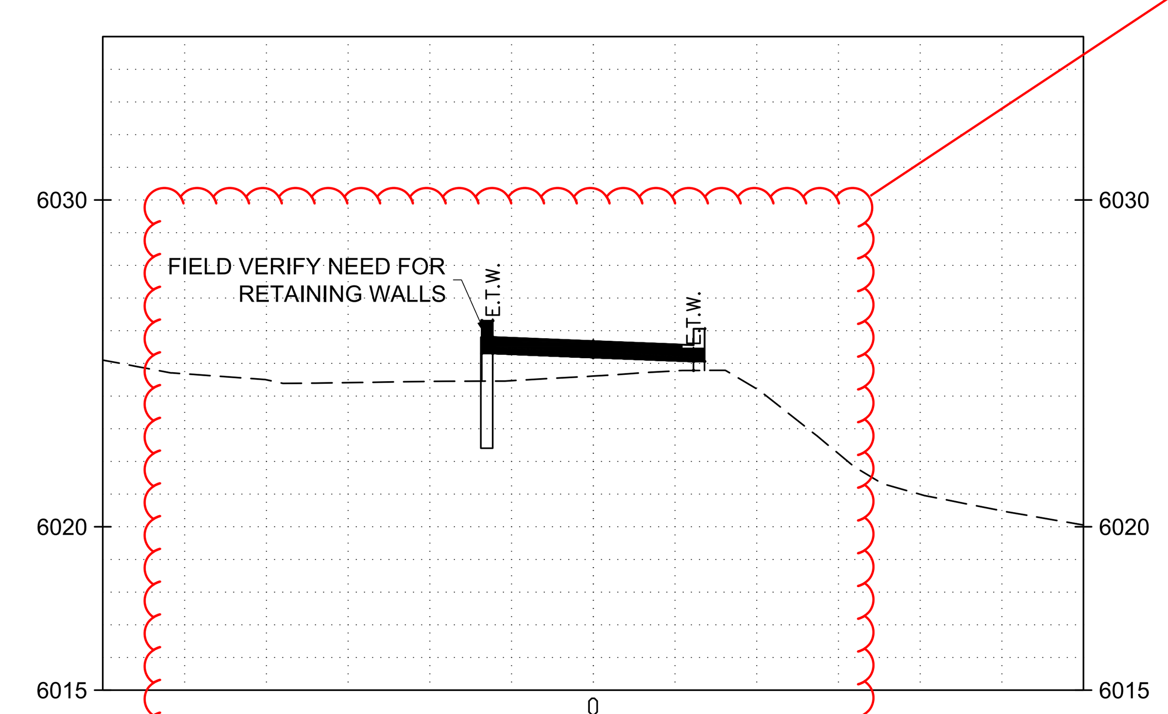
"adjust road slope to
reduce or eliminate



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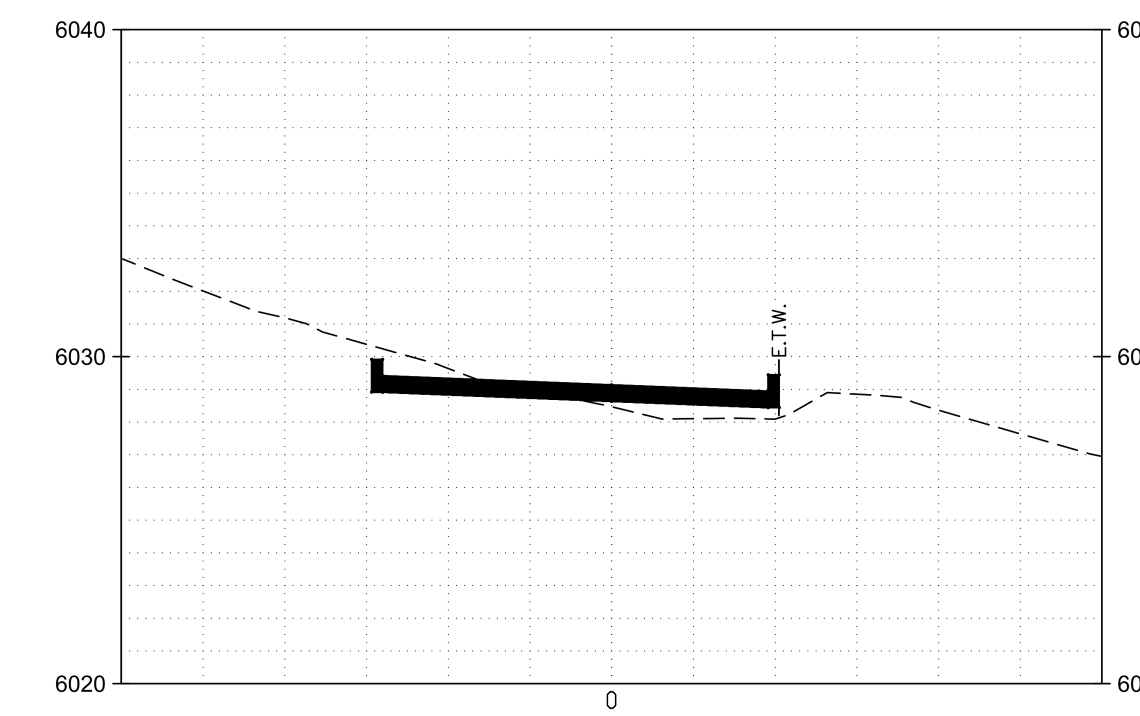

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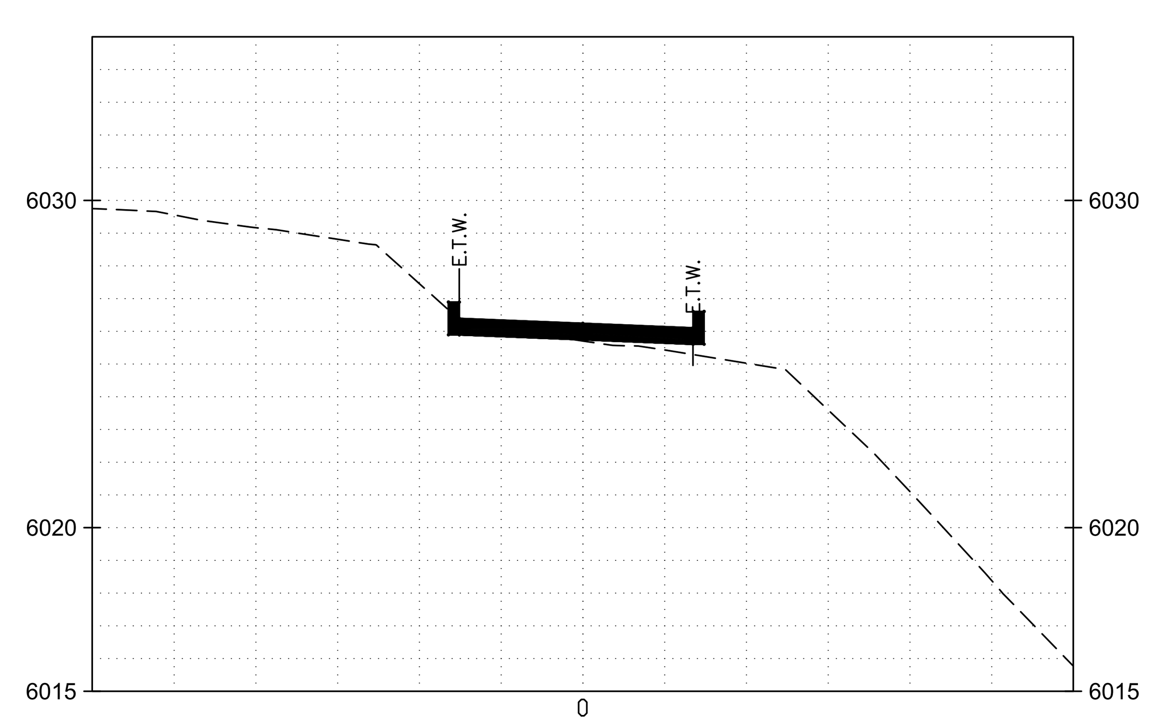

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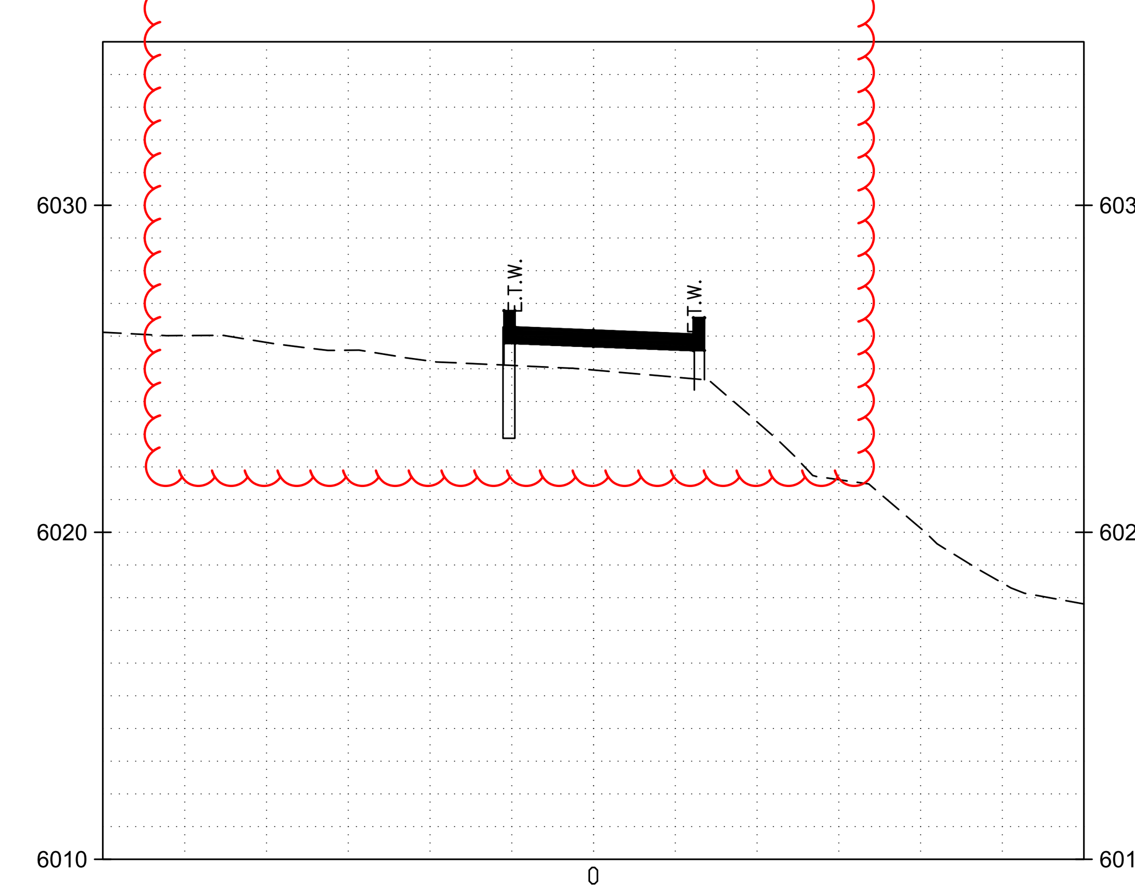

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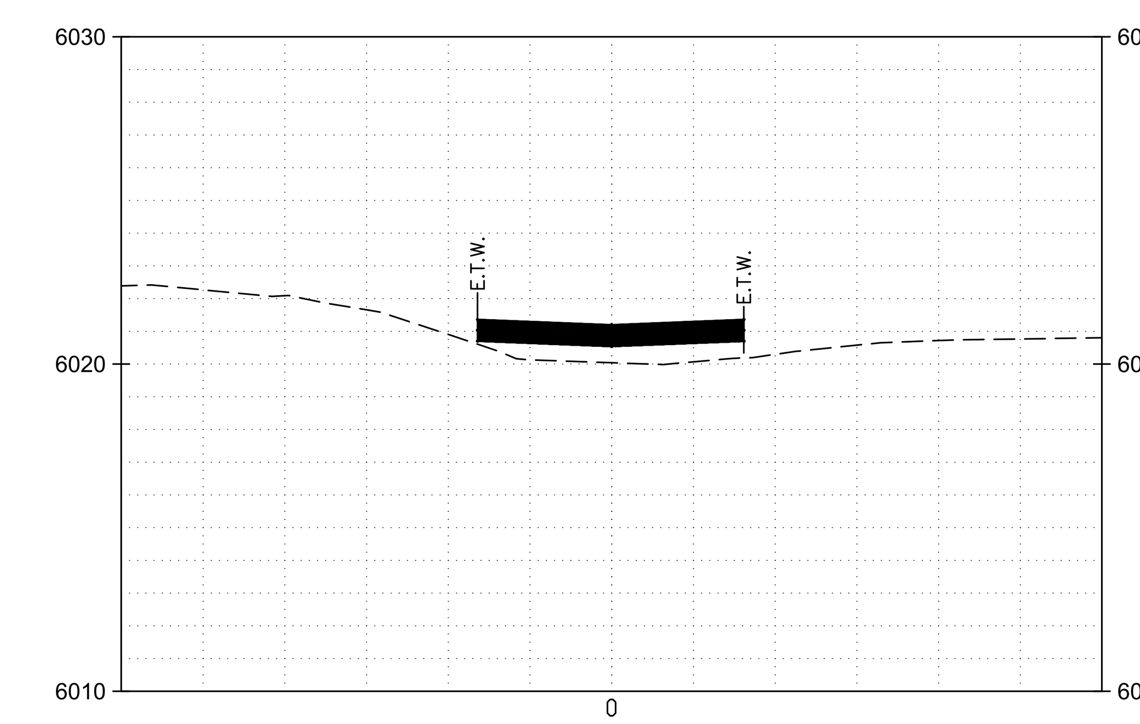

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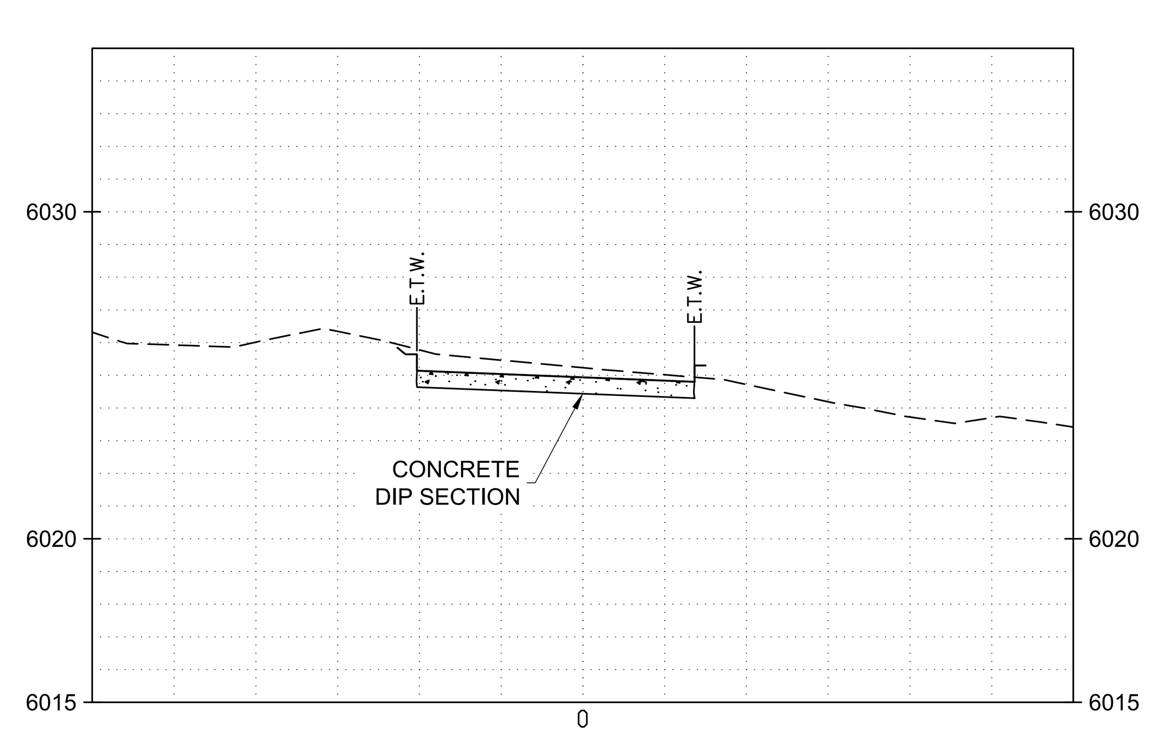

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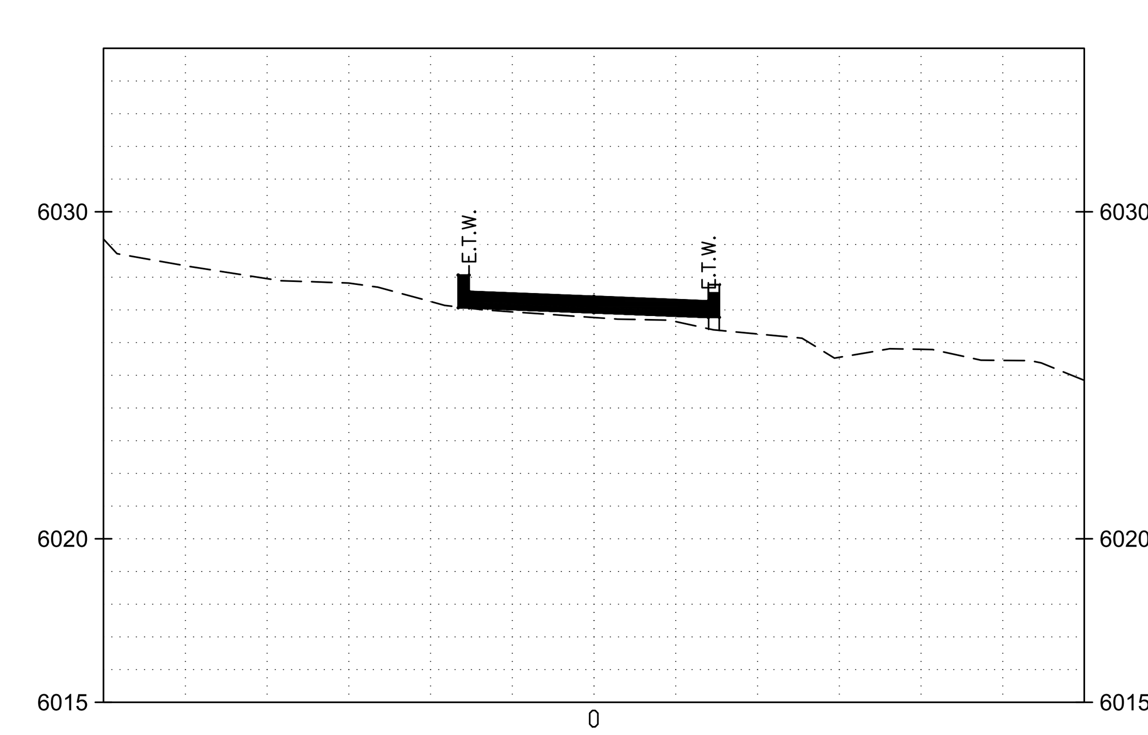

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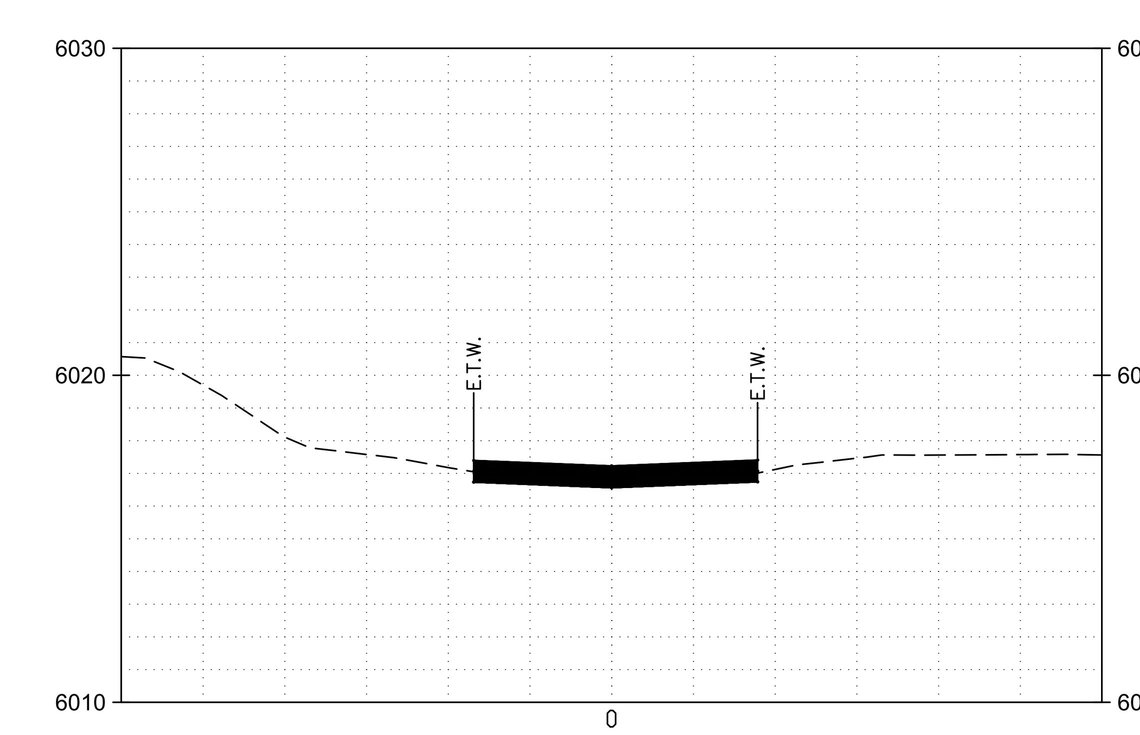

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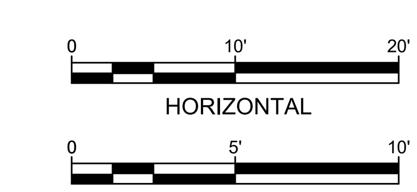

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NO.	DATE	APPR.	REVISION	NO.	DATE	APPR.	REVISION
A	9/24/21		ISSUED FOR REVIEW				
B	10/26/22		NM EMNRD-AML REVISIONS				

VILLAGE OF MADRID, NM
STORM WATER & EROSION CONTROL PROJECT

MADRID NEW MEXICO

WESTON SOLUTIONS

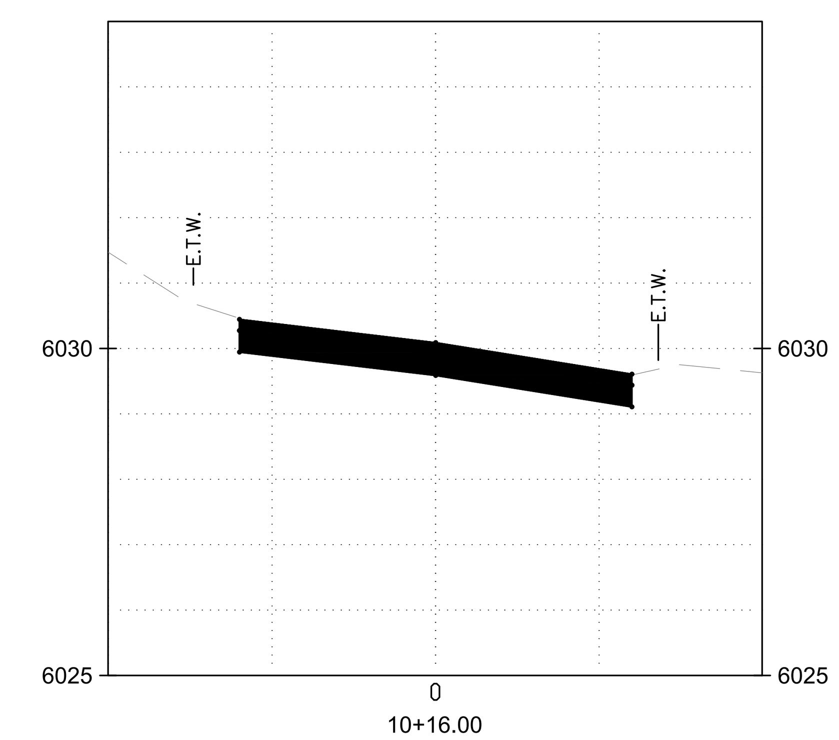
ALBUQUERQUE NEW MEXICO

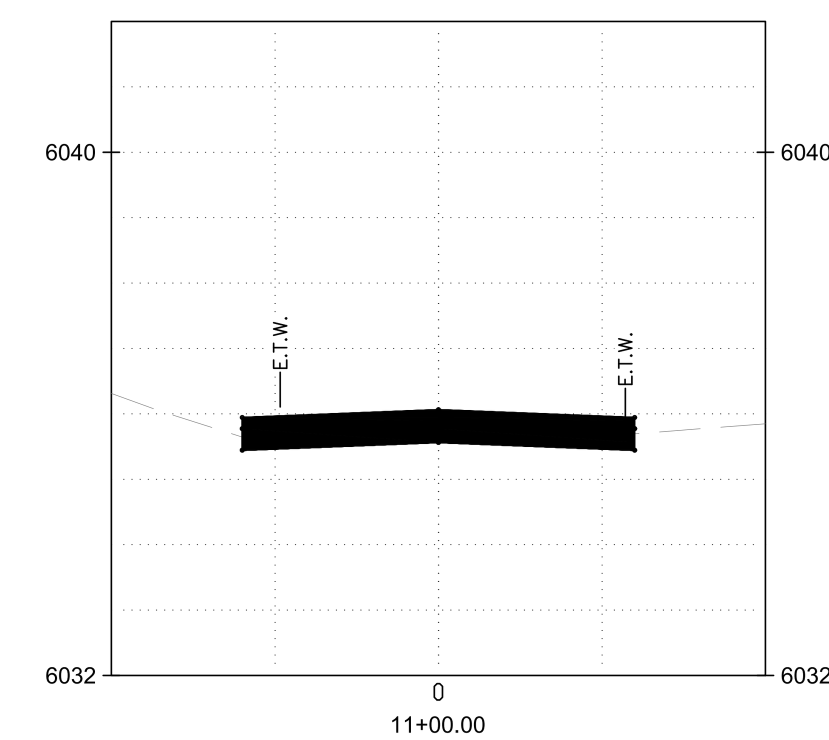
		DATE	CLIENT APPROVALS	DATE
CHECKED	SC	AUG 23		
DES. ENG.	SC/RGE/AMB	AUG 23		
PROJ. ENG.	RGE	AUG 23		
PROJ. MGR.	SC	AUG 23		
APPROVED				
APPROVED				

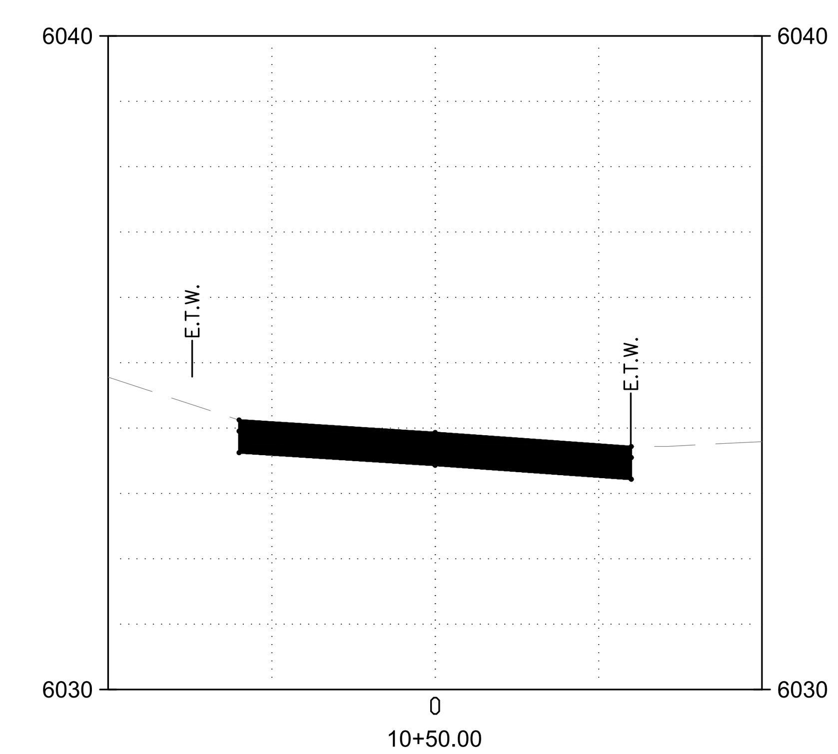
DRAFT
NOT FOR
CONSTRUCTION

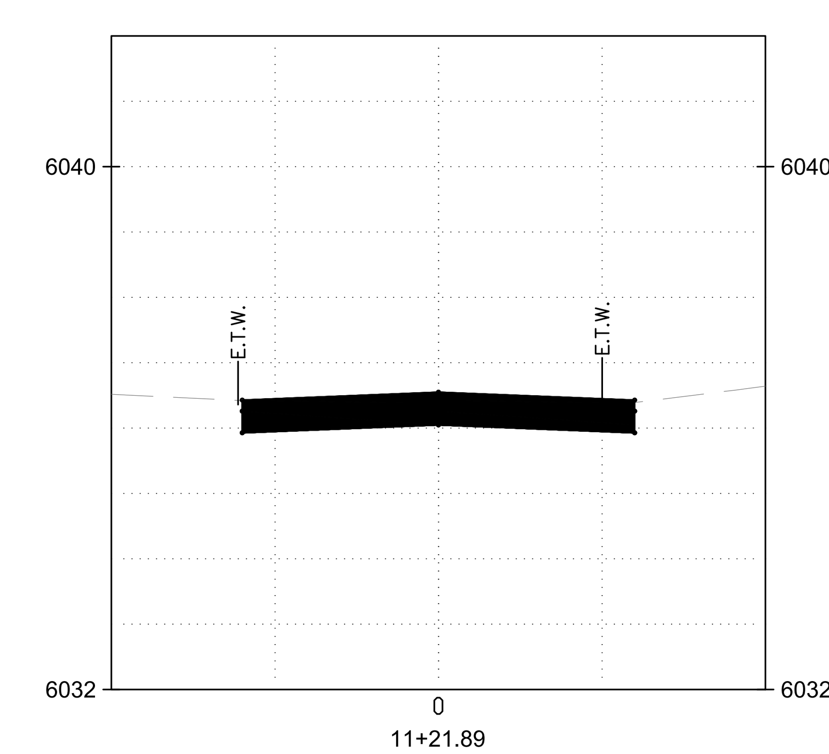
ICE HOUSE ROAD/MADRID ARROYO AREA
ICE HOUSE ROAD
CROSS SECTIONS

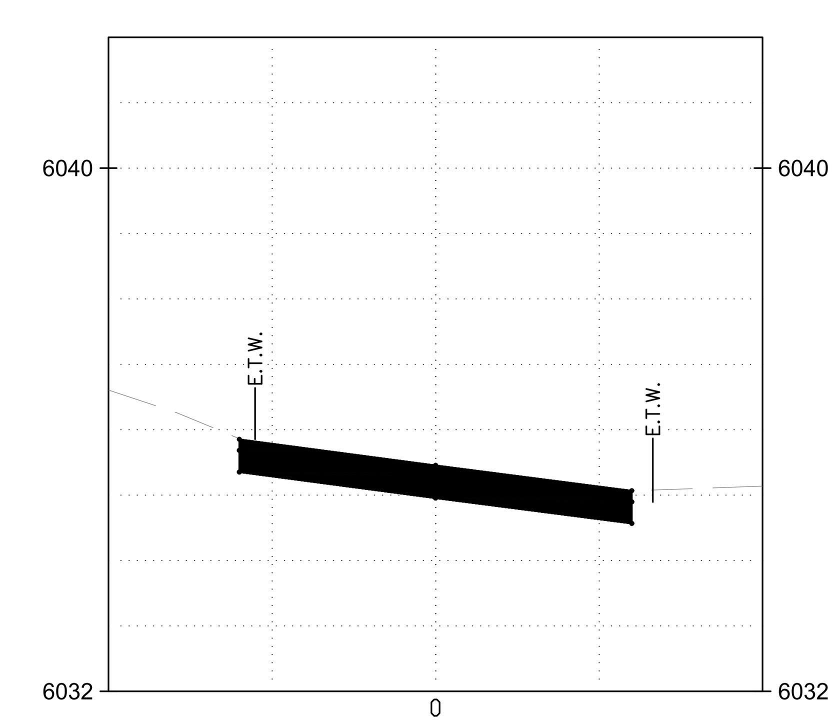
DRAWN	DATE	DWG. NO.	REV. NO.
RW	AUG 23	C104	B
SCALE	W.O. NO. 15740.001.003	SHT 34 OF 48	

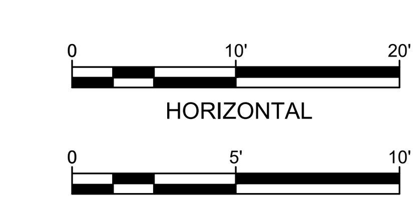












NO.	DATE	APPR.	REVISION	NO.	DATE	APPR.	REVISION
A	9/24/21		ISSUED FOR REVIEW				
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VILLAGE OF MADRID, NM
STORM WATER & EROSION CONTROL PROJECT

MADRID NEW MEXICO

WESTON SOLUTIONS

ALBUQUERQUE NEW MEXICO

		DATE	CLIENT APPROVALS	DATE
CHECKED	SC	AUG 23		
DES. ENG.	SC/RGE/AMB	AUG 23		
PROJ. ENG.	RGE	AUG 23		
PROJ. MGR.	SC	AUG 23		
APPROVED				
APPROVED				

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NOT FOR
CONSTRUCTION

ICE HOUSE ROAD/ MADRID ARROYO AREA
ICE HOUSE ROAD EXTENSION
CROSS SECTIONS

DRAWN	DATE	DWG. NO.	REV. NO.
RW	AUG 23	C105	B
SCALE	W.O. NO. 15740.001.003	SHT 35 OF 48	

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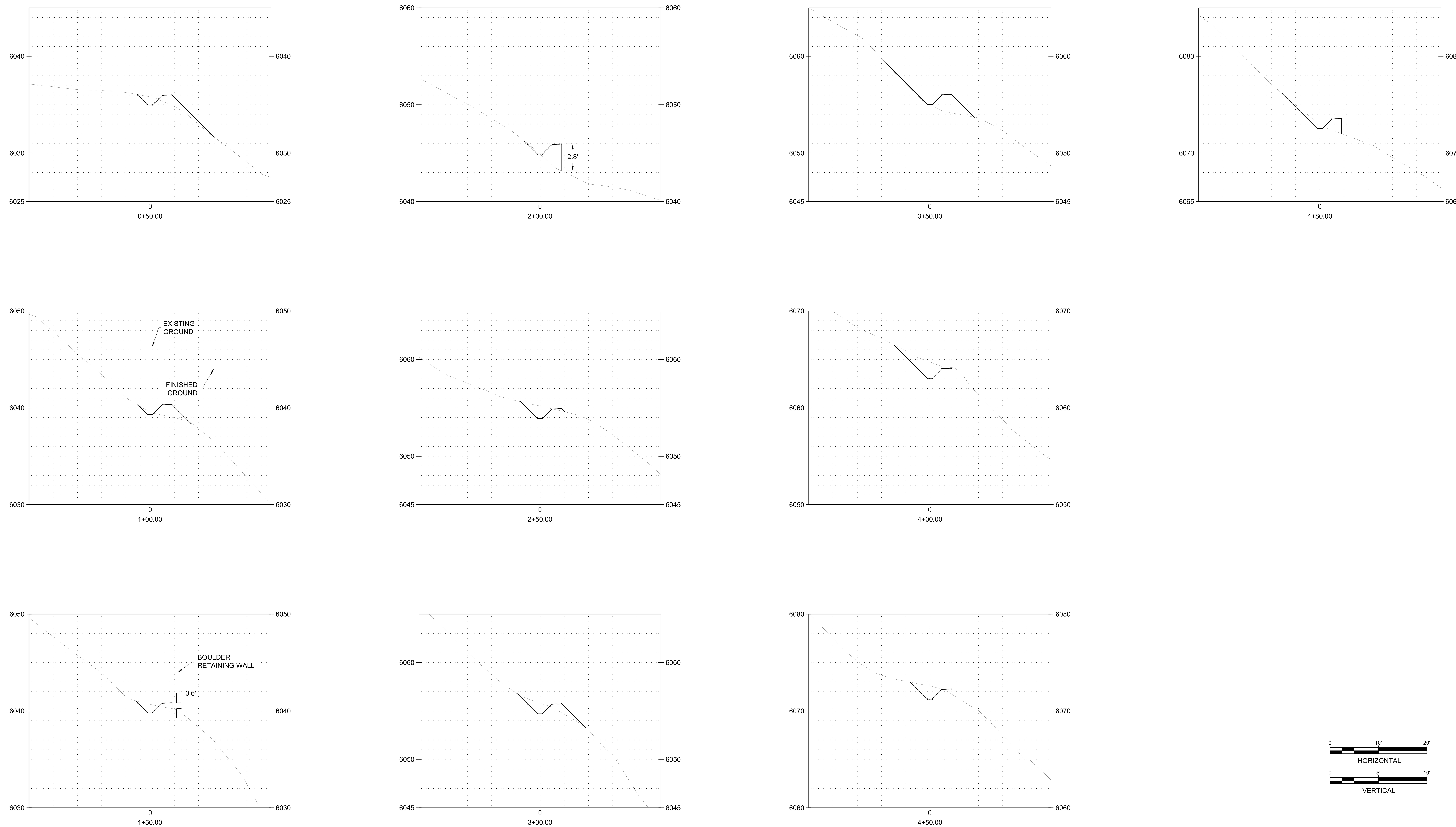

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VILLAGE OF MADRID, NM
STORM WATER & EROSION CONTROL PROJECT

MADRID NEW MEXICO

WESTON SOLUTIONS

ALBUQUERQUE NEW MEXICO

		DATE	CLIENT APPROVALS	DATE
CHECKED	SC	AUG 23		
DES. ENG.	SC/RGE/AMB	AUG 23		
PROJ. ENG.	RGE	AUG 23		
PROJ. MGR.	SC	AUG 23		
APPROVED				
APPROVED				

DRAFT
NOT FOR
CONSTRUCTION

ICE HOUSE ROAD/MADRID ARROYO AREA
ICE HOUSE LOWER INTERCEPTOR
CROSS SECTIONS

DRAWN	DATE	DWG. NO.	REV. NO.
RW	AUG 23	C106	B
SCALE	W.O. NO. 15740.001.003	SHT 36 OF 48	

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C:\Users\waters\Documents\Madrid Stormwater\90\Ice House Area XSects.dwg October 18, 2023 - 12:18pm

NO.	DATE	APPR.	REVISION	NO.	DATE	APPR.	REVISION
A	9/24/21		ISSUED FOR REVIEW				
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VILLAGE OF MADRID, NM
STORM WATER & EROSION CONTROL PROJECT

MADRID NEW MEXICO

WESTON SOLUTIONS

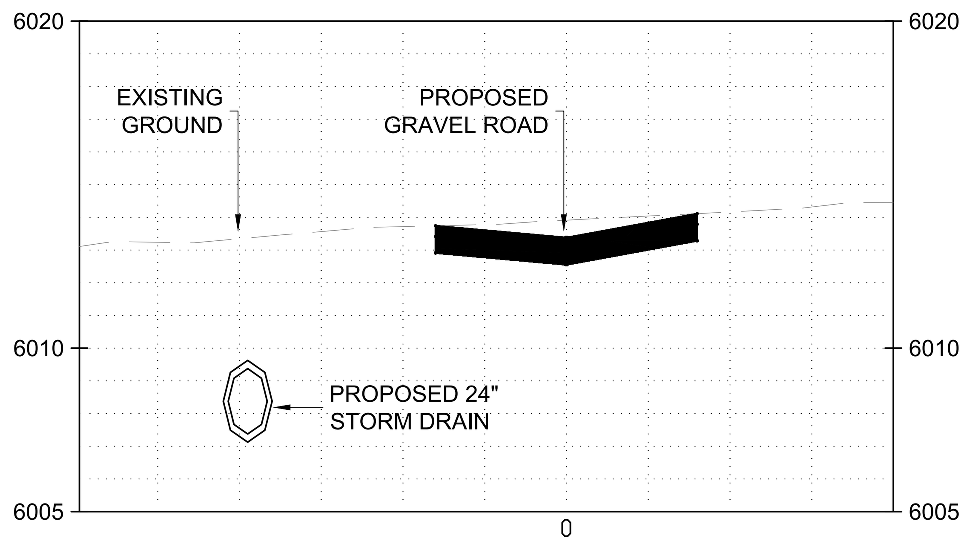
ALBUQUERQUE NEW MEXICO

		DATE	CLIENT APPROVALS	DATE
CHECKED	SC	AUG 23		
DES. ENG.	SC/RGE/AMB	AUG 23		
PROJ. ENG.	RGE	AUG 23		
PROJ. MGR.	SC	AUG 23		
APPROVED				
APPROVED				

DRAFT
NOT FOR
CONSTRUCTION

ICE HOUSE ROAD/MADRID ARROYO AREA
ICE HOUSE UPPER INTERCEPTOR
CROSS SECTIONS

DRAWN	DATE	DWG. NO.	REV. NO.
RW	AUG 23	C107	B
SCALE	W.O. NO. 15740.001.003	SHT 37 OF 48	



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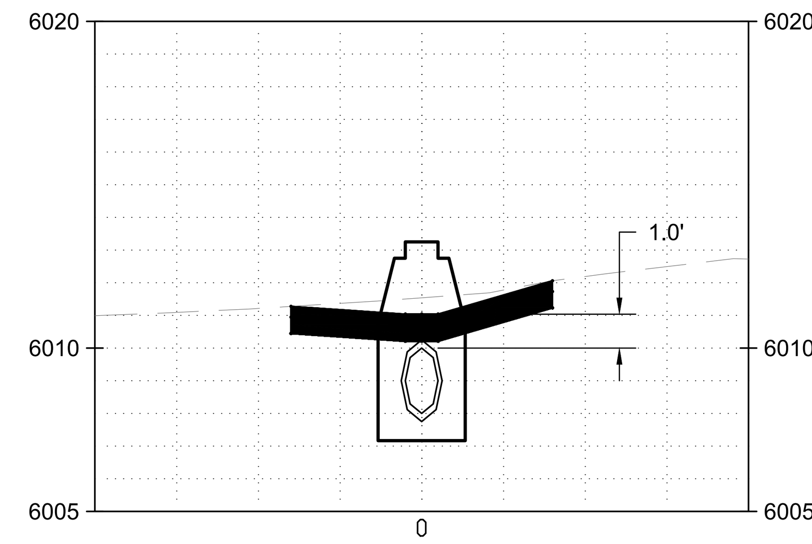

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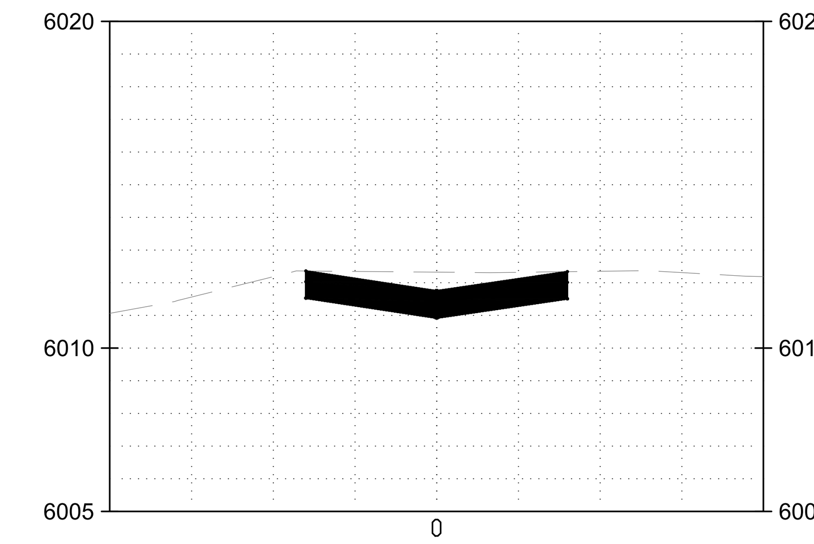

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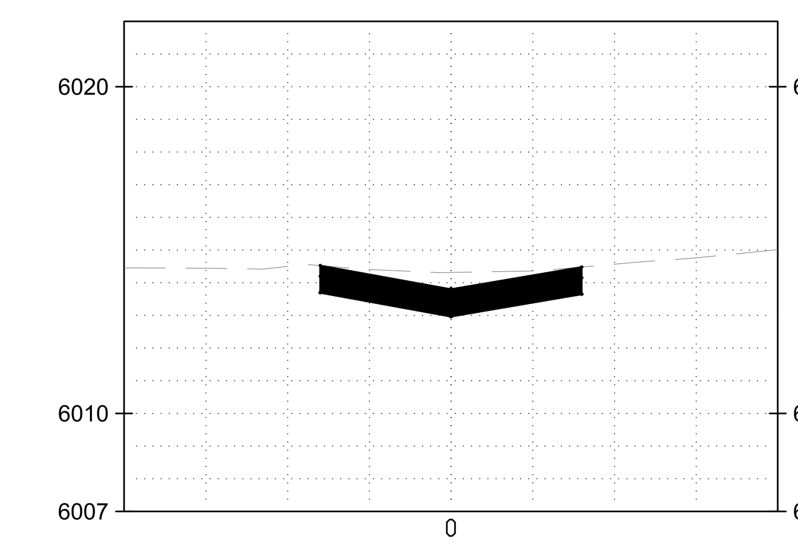

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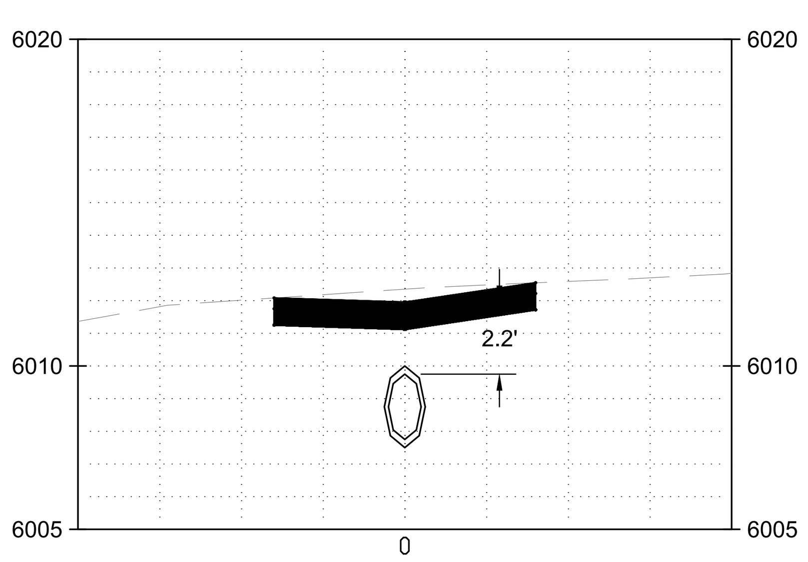

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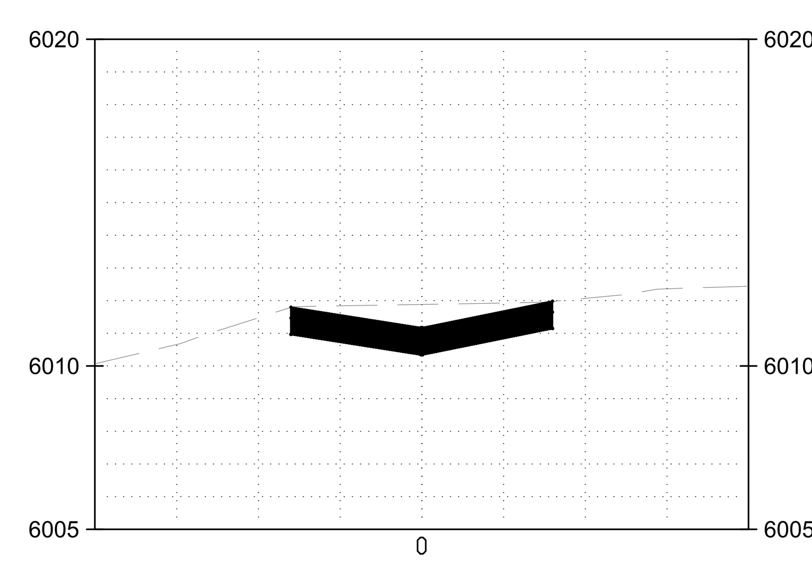

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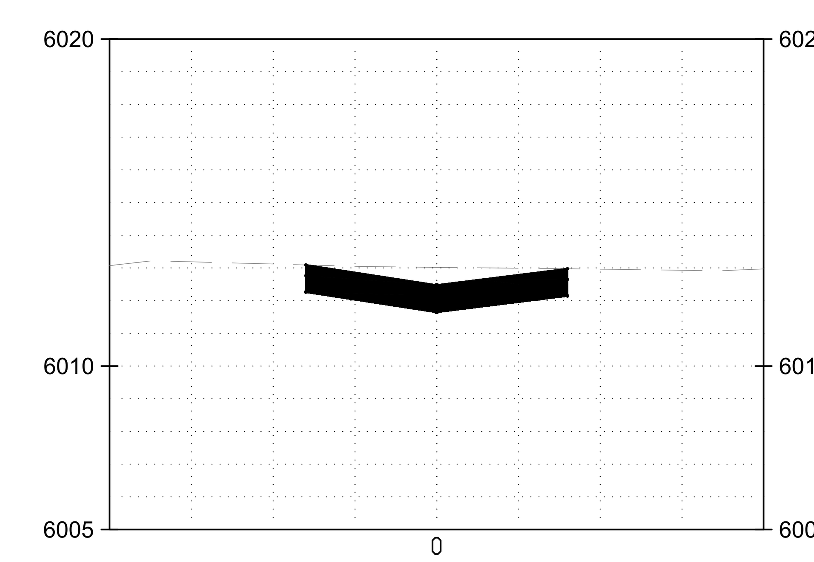

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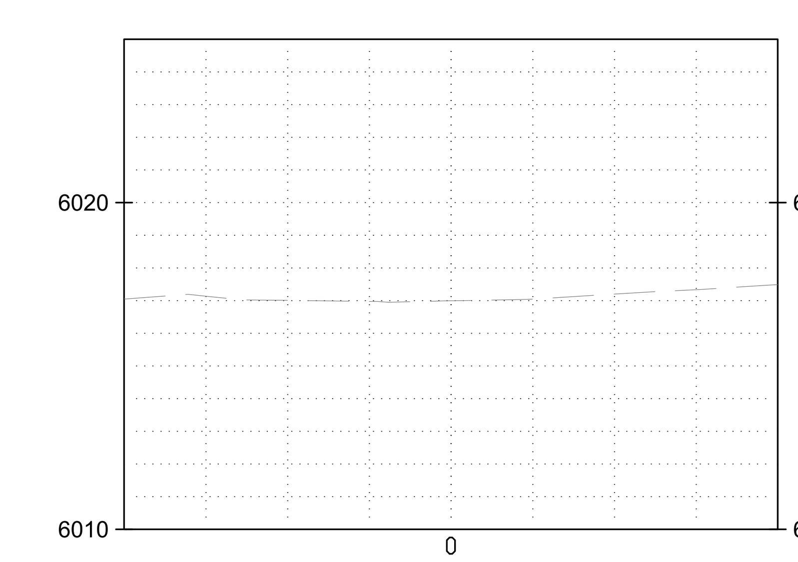

13+50.00

0 10' 20'
HORIZONTAL

0 5' 10'
VERTICAL

NO.	DATE	APPR.	REVISION
A	9/24/21		ISSUED FOR REVIEW
B	10/26/22		NM EMNRD-AML REVISIONS

NO.	DATE	APPR.	REVISION

VILLAGE OF MADRID, NM
STORM WATER & EROSION CONTROL PROJECT

MADRID NEW MEXICO

WESTON SOLUTIONS

ALBUQUERQUE NEW MEXICO

		DATE	CLIENT APPROVALS	DATE
CHECKED	SC	AUG 23		
DES. ENG.	SC/RGE/AMB	AUG 23		
PROJ. ENG.	RGE	AUG 23		
PROJ. MGR.	SC	AUG 23		
APPROVED				
APPROVED				

DRAFT
NOT FOR
CONSTRUCTION

ICE HOUSE ROAD/MADRID ARROYO AREA
BRIDGE ROAD
CROSS SECTIONS

DRAWN	DATE	DWG. NO.	REV. NO.
RW	AUG 23	C108	B
SCALE	W.O. NO. 15740.001.003	SHT 38 OF 48	

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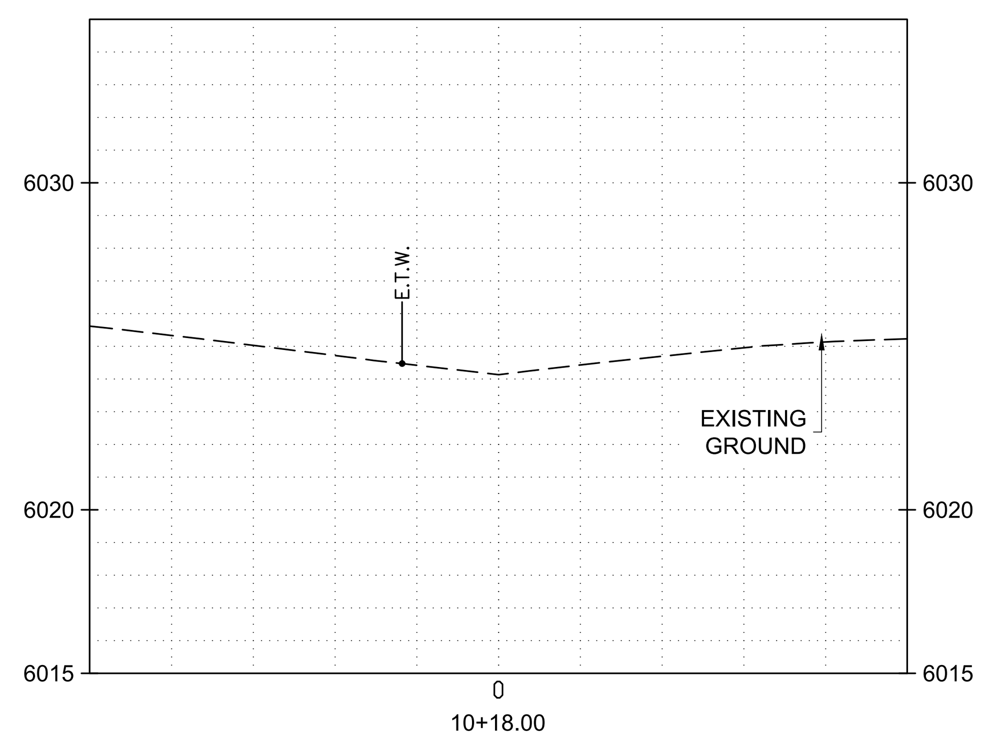

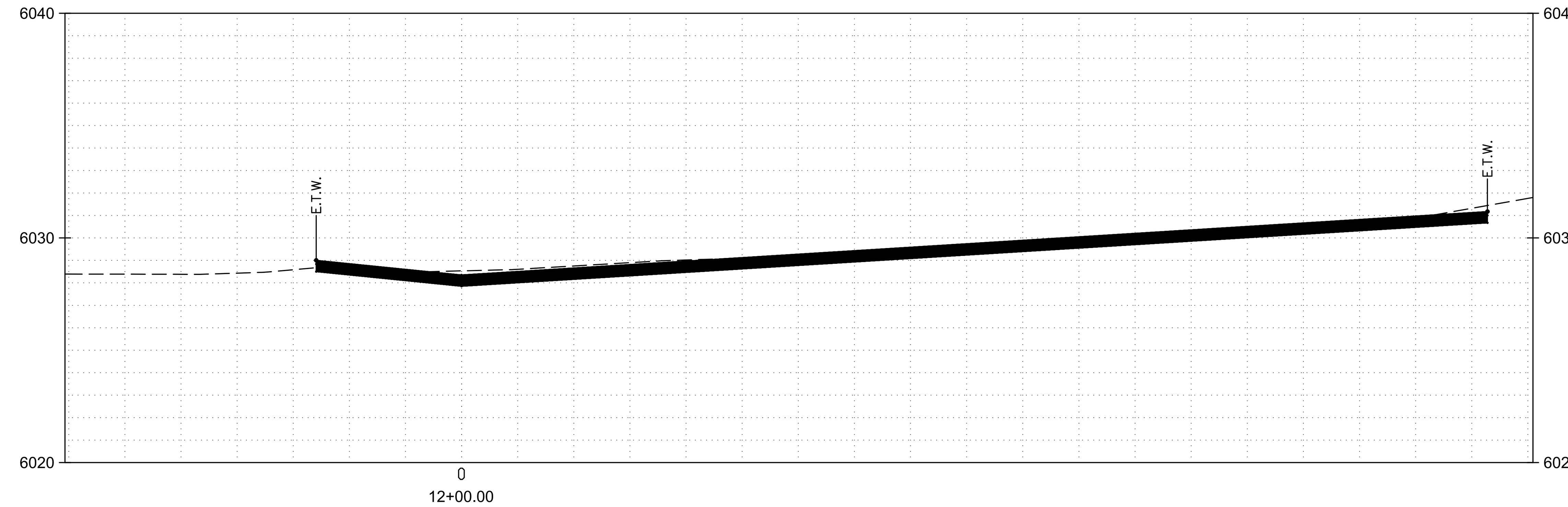

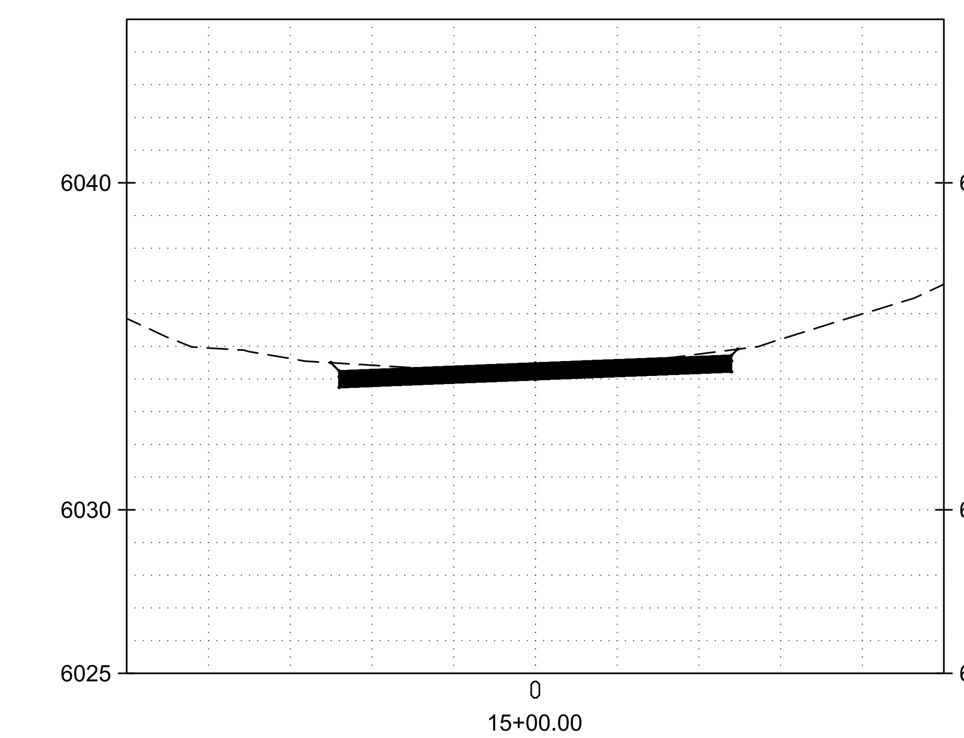

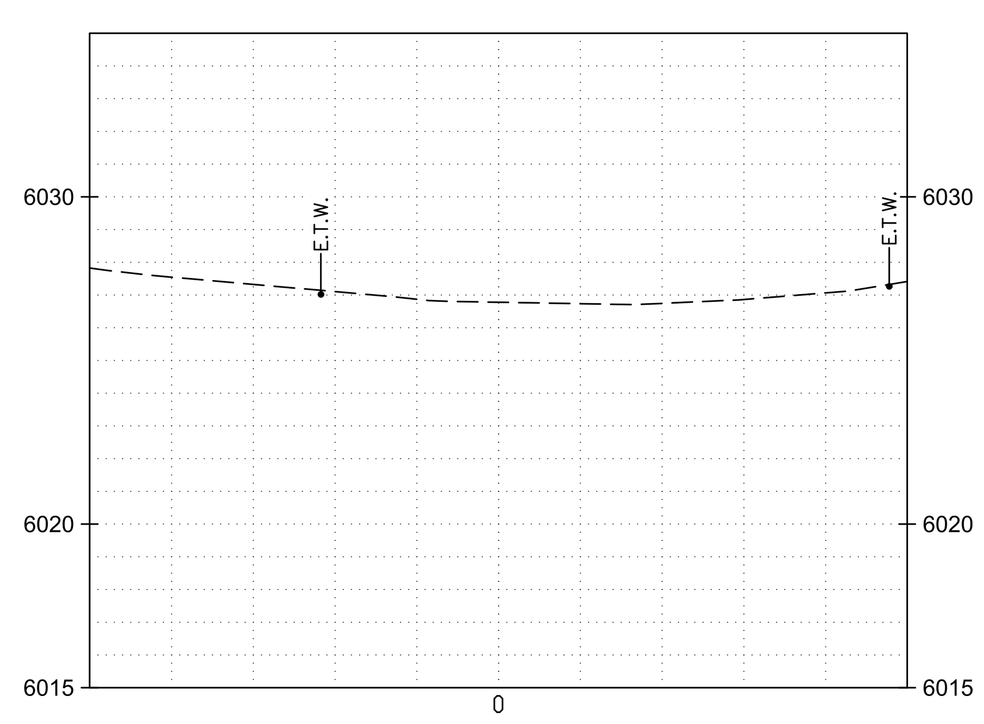

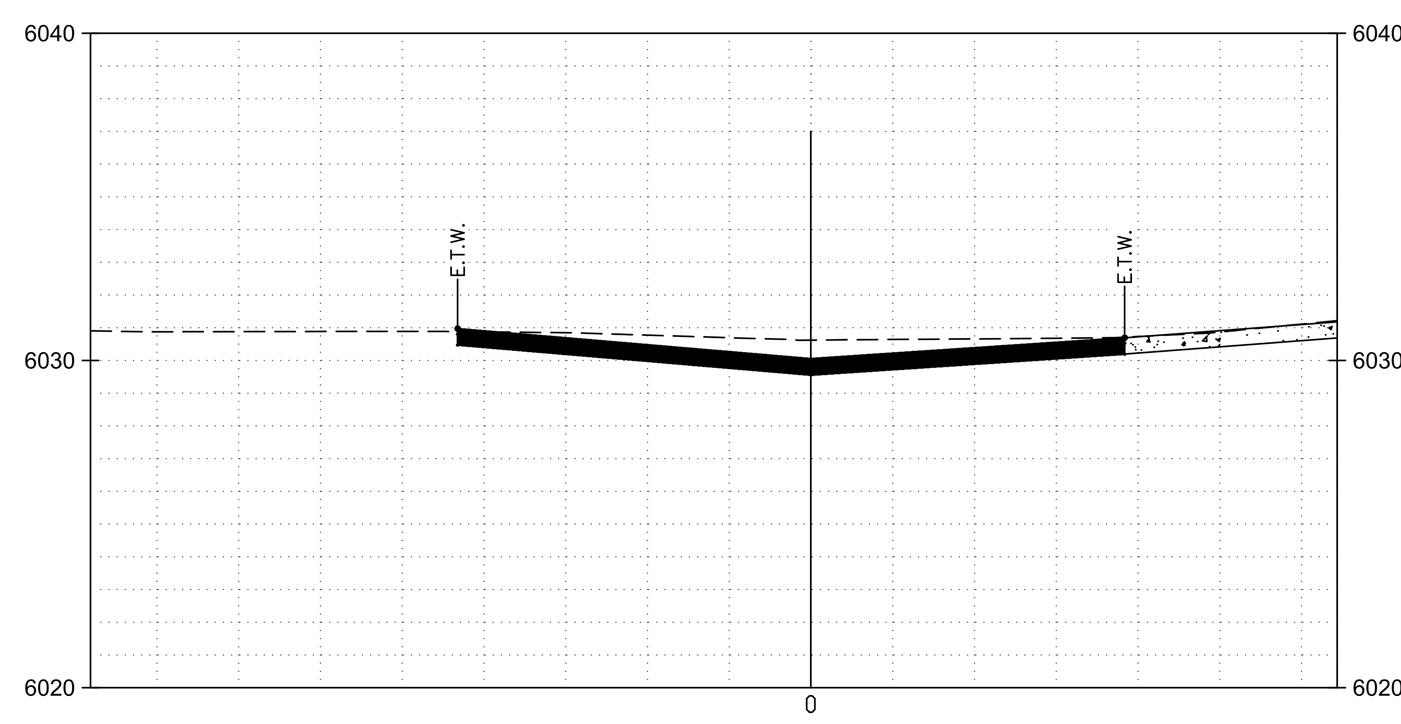

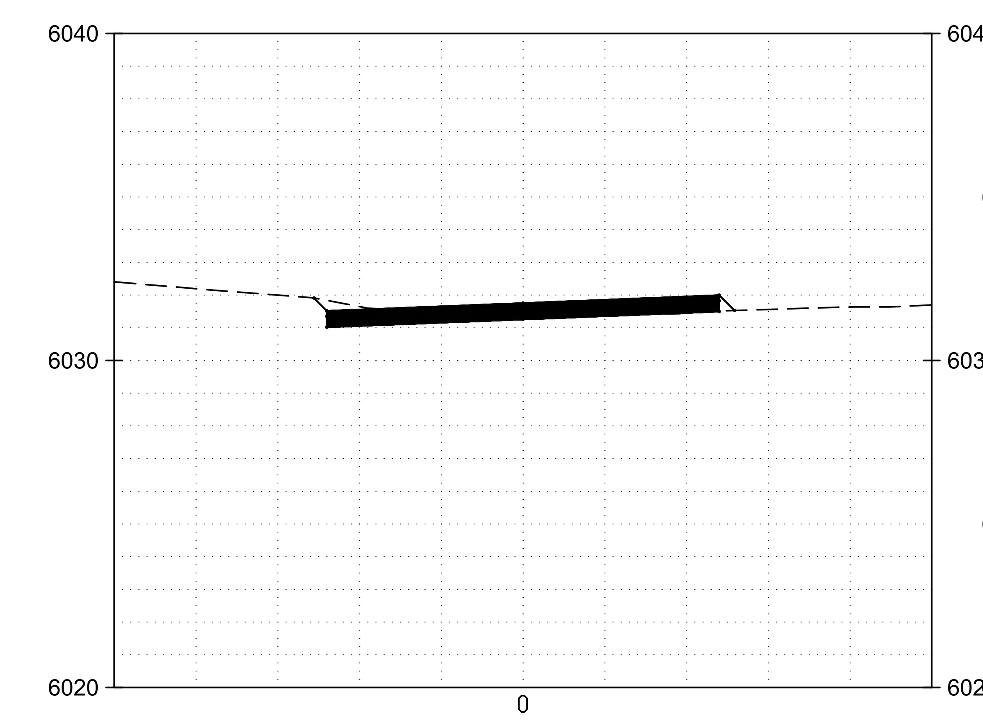

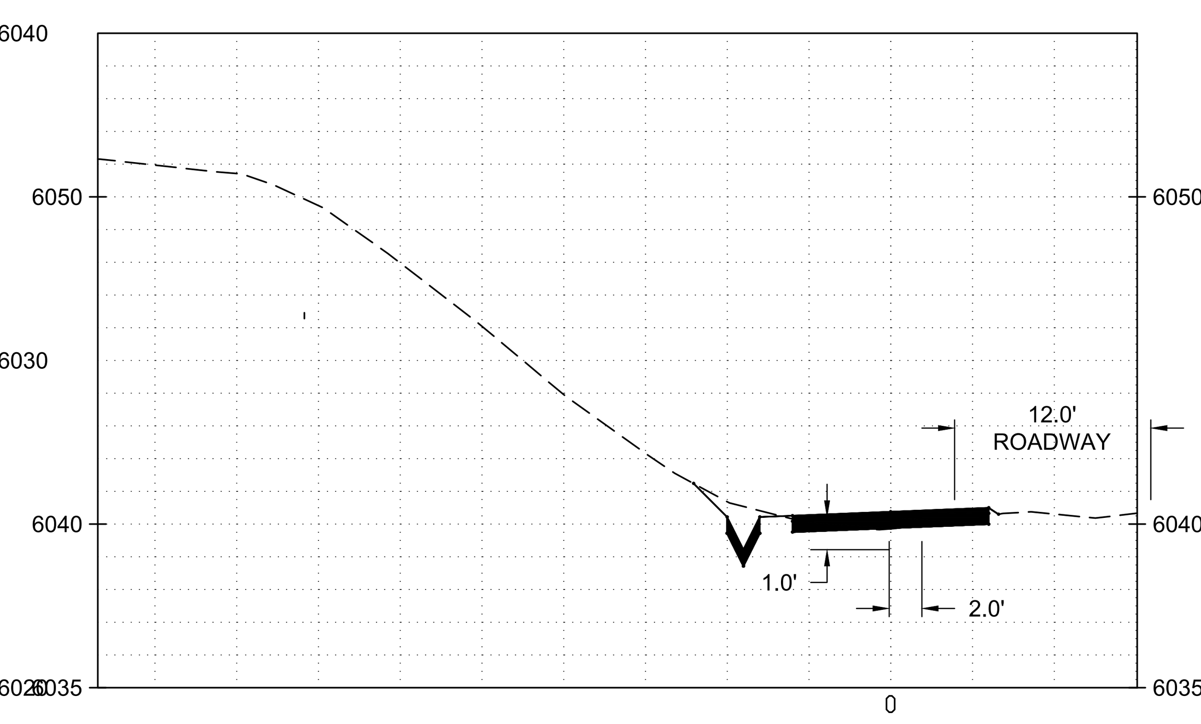

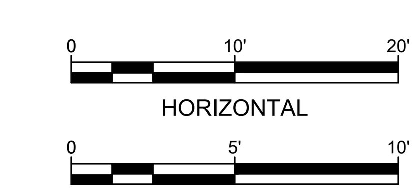

NO.	DATE	APPR.	REVISION	NO.	DATE	APPR.	REVISION

VILLAGE OF MADRID, NM
STORM WATER & EROSION CONTROL PROJECT

MADRID NEW MEXICO

WESTON SOLUTIONS

ALBUQUERQUE NEW MEXICO

		DATE	CLIENT APPROVALS	DATE
CHECKED	SC	AUG 23		
DES. ENG.	SC/RGE/AMB	AUG 23		
PROJ. ENG.	RGE	AUG 23		
PROJ. MGR.	SC	AUG 23		
APPROVED				
APPROVED				

FIREHOUSE LANE AREA
FIREHOUSE LANE
CROSS SECTIONS (1 OF 2)

DRAWN	DATE	DWG. NO.	REV. NO.
RW	AUG 23	C109	B
SCALE	W.O. NO. 15740.001.003	SHT 39 OF 48	

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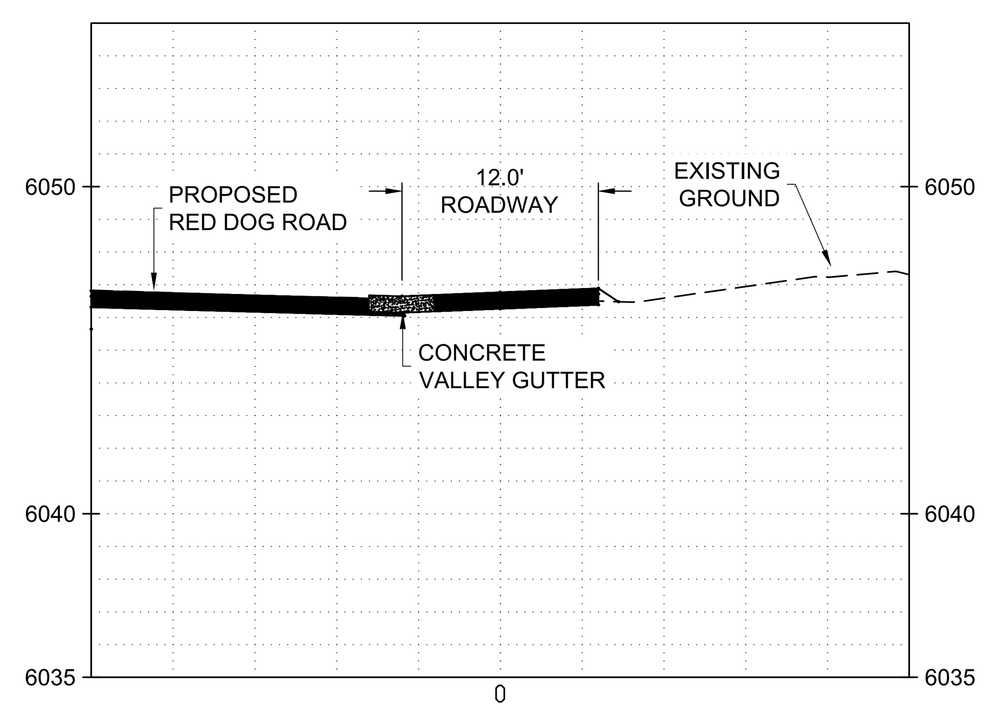

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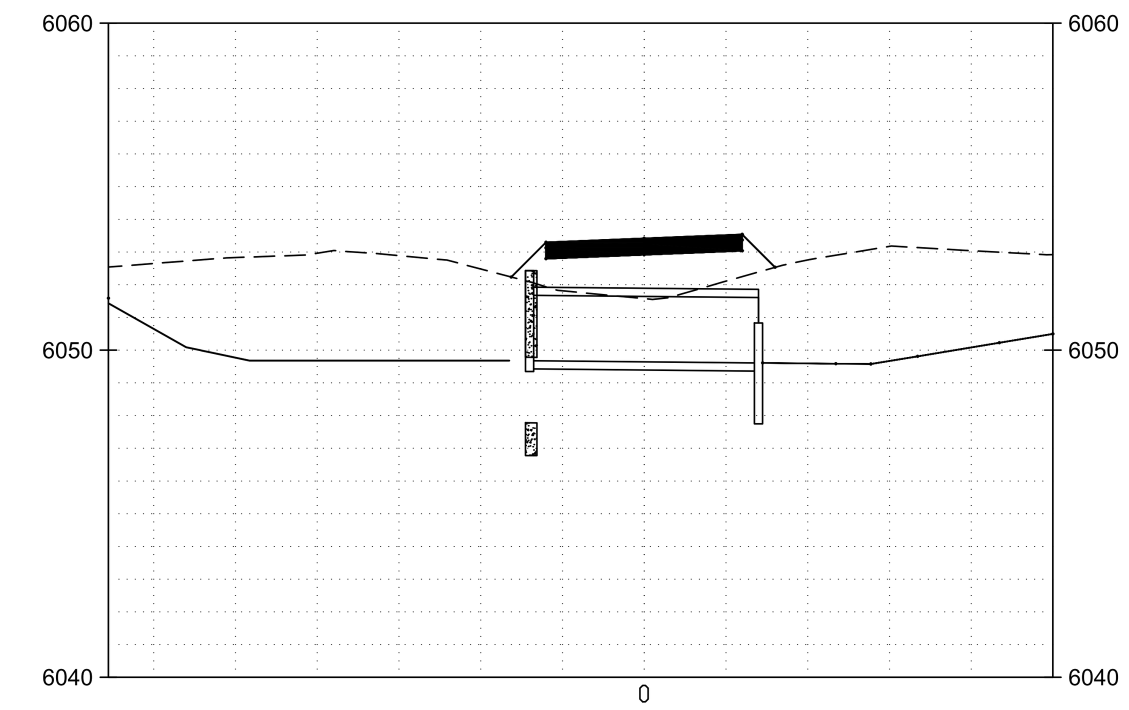

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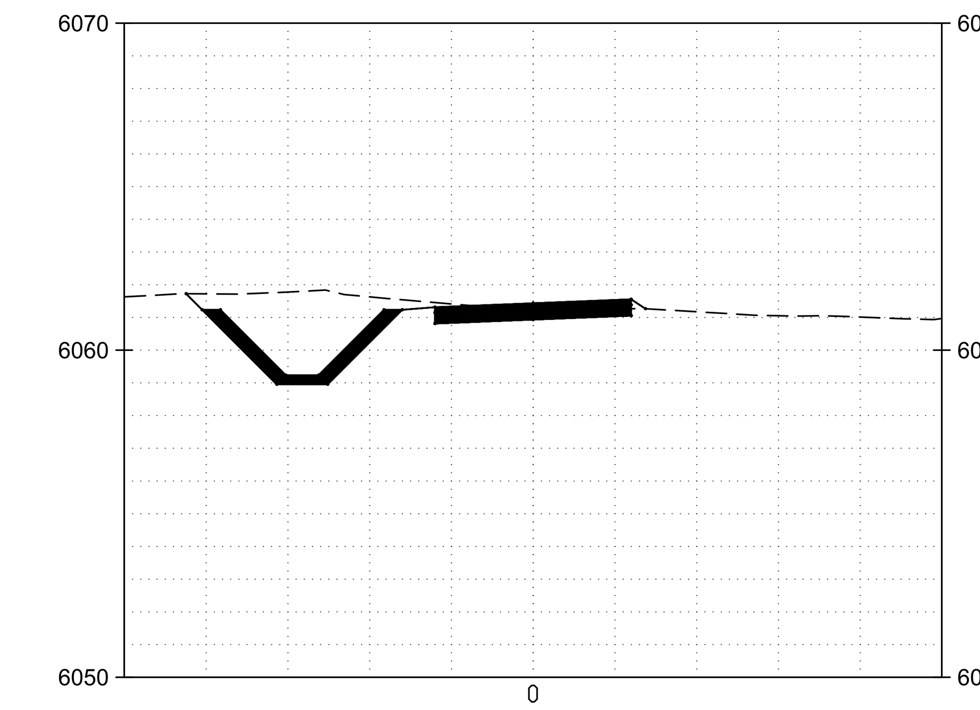

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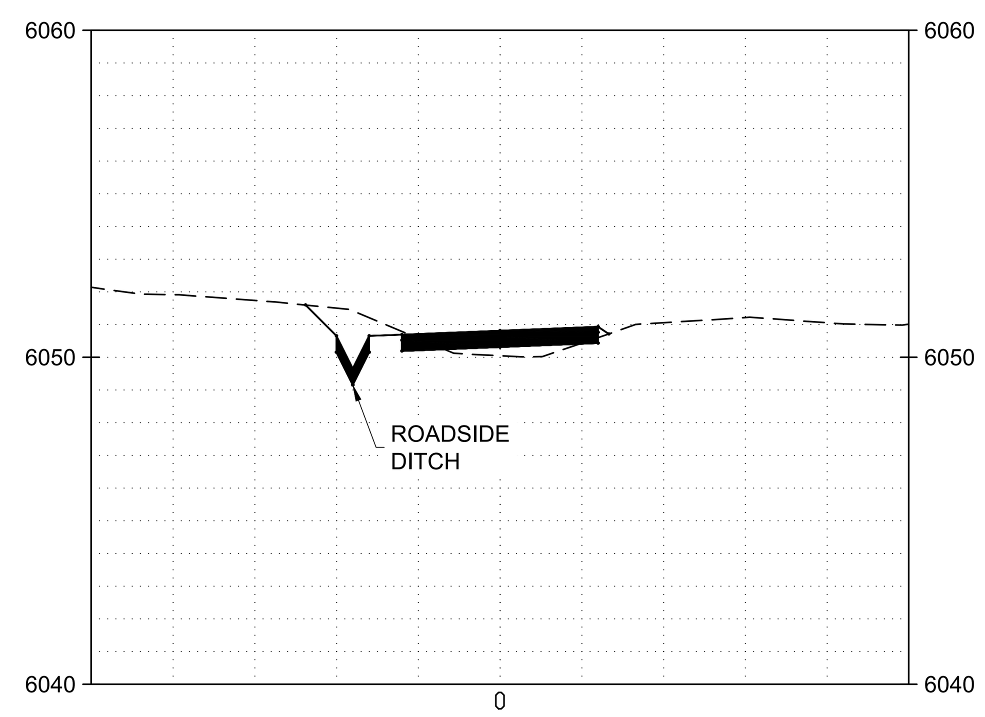

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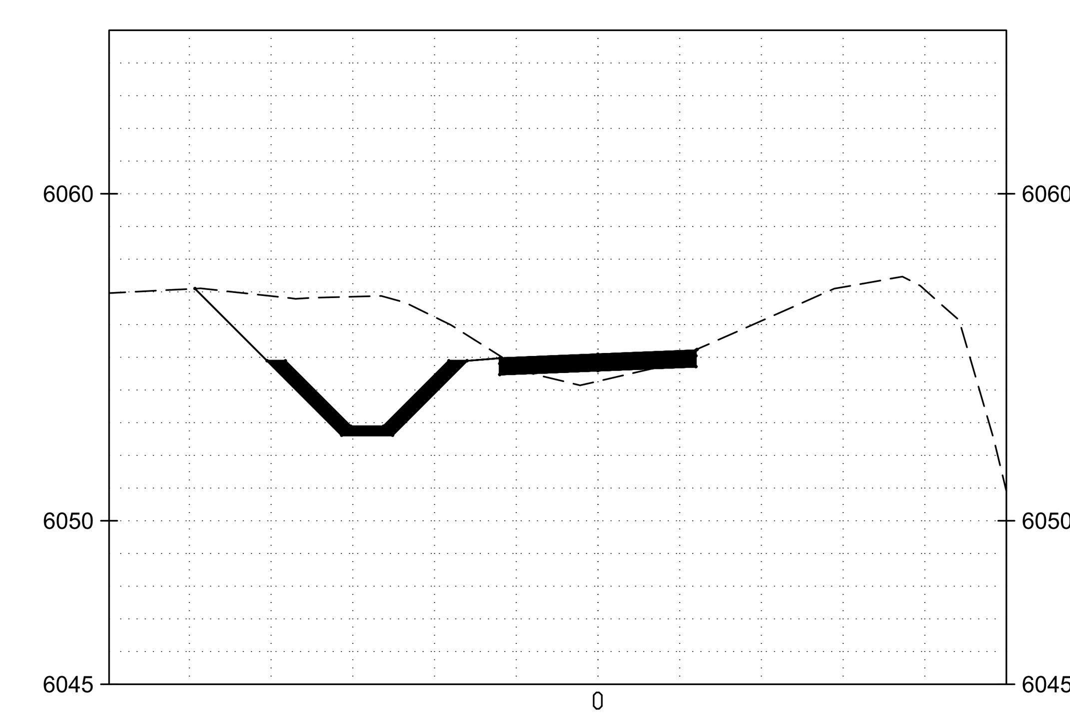

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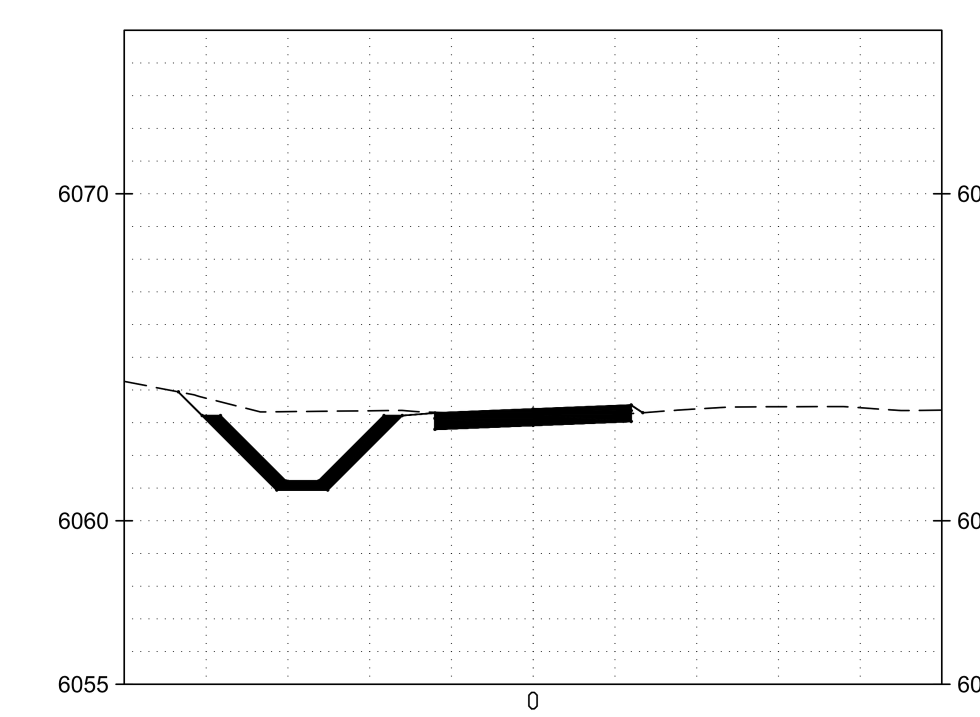

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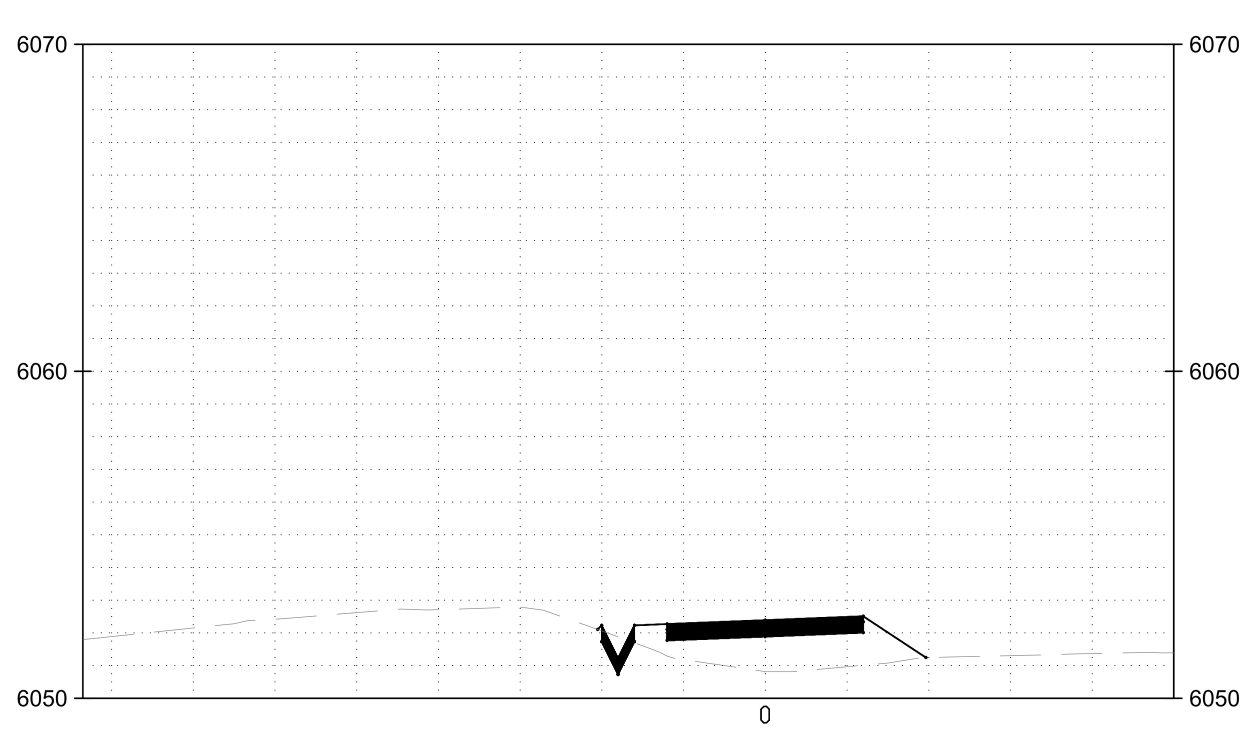

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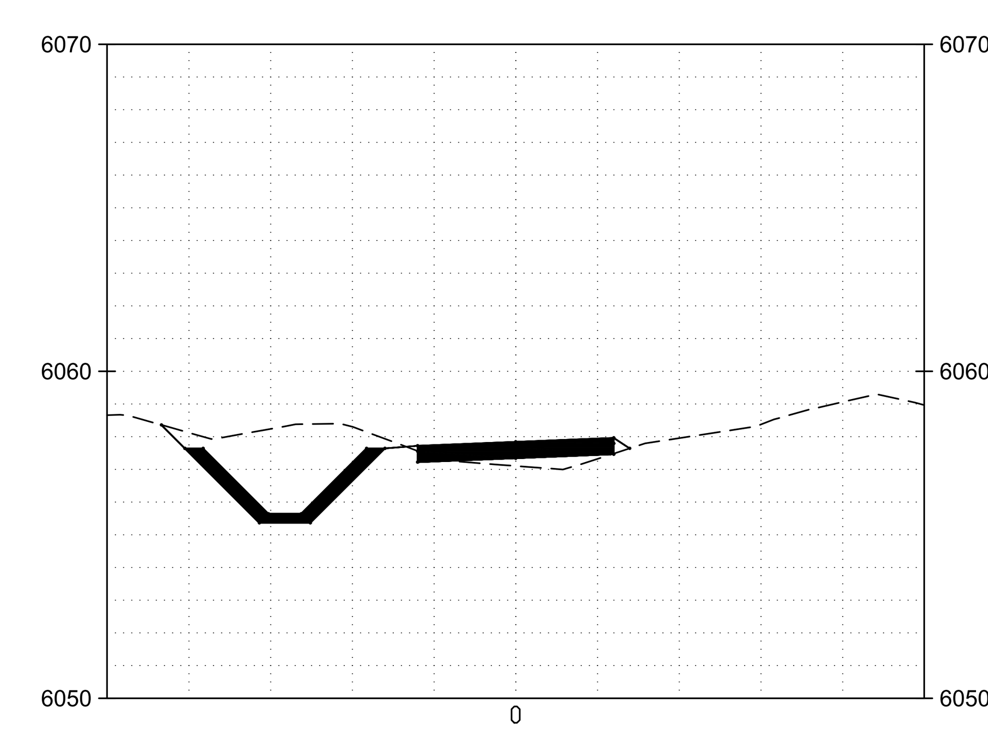

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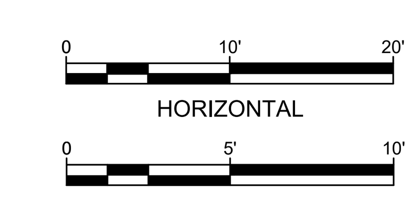

NO.	DATE	APPR.	REVISION	NO.	DATE	APPR.	REVISION

VILLAGE OF MADRID, NM
STORM WATER & EROSION CONTROL PROJECT
MADRID NEW MEXICO

WESTON SOLUTIONS
ALBUQUERQUE NEW MEXICO

		DATE	CLIENT APPROVALS	DATE
CHECKED	SC	AUG 23		
DES. ENG.	SC/RGE/AMB	AUG 23		
PROJ. ENG.	RGE	AUG 23		
PROJ. MGR.	SC	AUG 23		
APPROVED				
APPROVED				

FIREHOUSE LANE AREA
FIREHOUSE LANE
CROSS SECTIONS (2 OF 2)

DRAWN	DATE	DWG. NO.	REV. NO.
RW	AUG 23	C110	B
SCALE	W.O. NO. 15740.001.003	SHT 40 OF 48	

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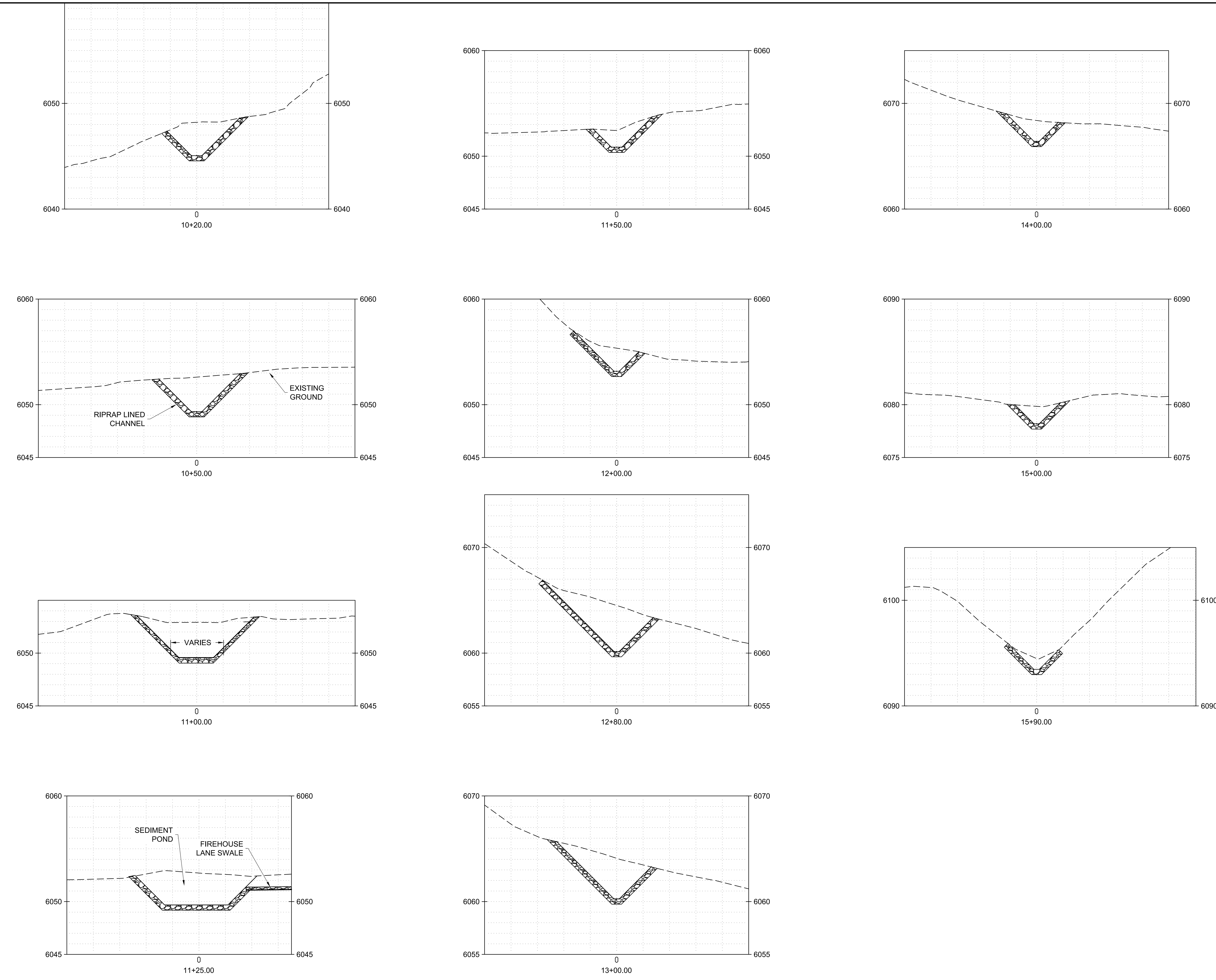

NO.	DATE	APPR.	REVISION	NO.	DATE	APPR.	REVISION

VILLAGE OF MADRID, NM
STORM WATER & EROSION CONTROL PROJECT

MADRID — NEW MEXICO

WESTON SOLUTIONS

ALBUQUERQUE — NEW MEXICO

		DATE	CLIENT APPROVALS	DATE
CHECKED	SC	AUG 23		
DES. ENG.	SC/RGE/AMB	AUG 23		
PROJ. ENG.	RGE	AUG 23		
PROJ. MGR.	SC	AUG 23		
APPROVED				
APPROVED				

FIREHOUSE LANE AREA
FIREHOUSE INTERCEPTOR
CROSS SECTIONS

DRAWN	DATE	DWG. NO.	REV. NO.
RW	AUG 23	C111	B
SCALE	W.O. NO. 15740.001.003	SHT 41 OF 48	

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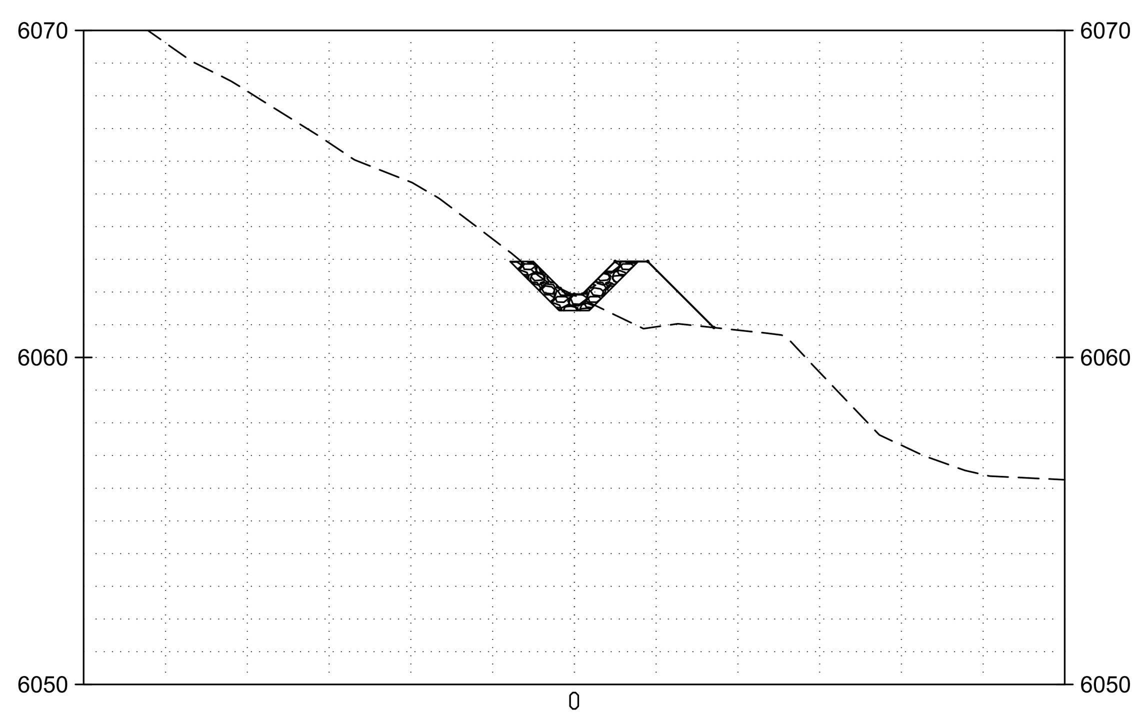

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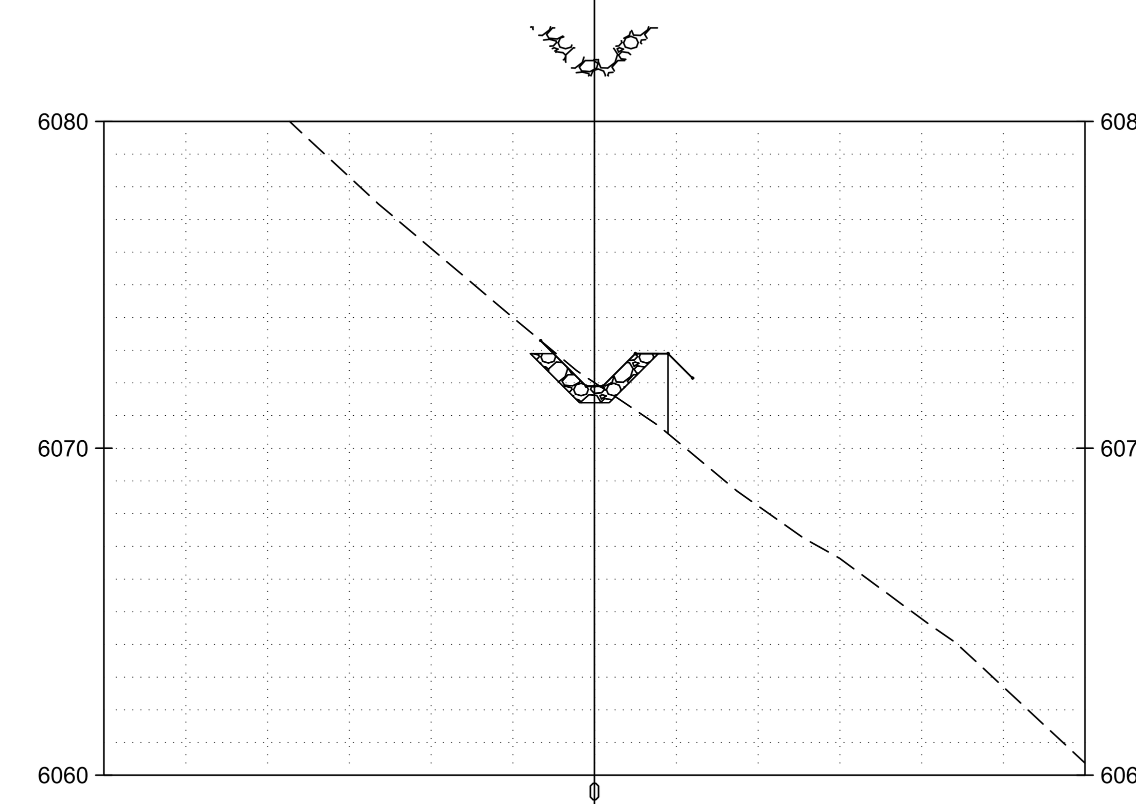

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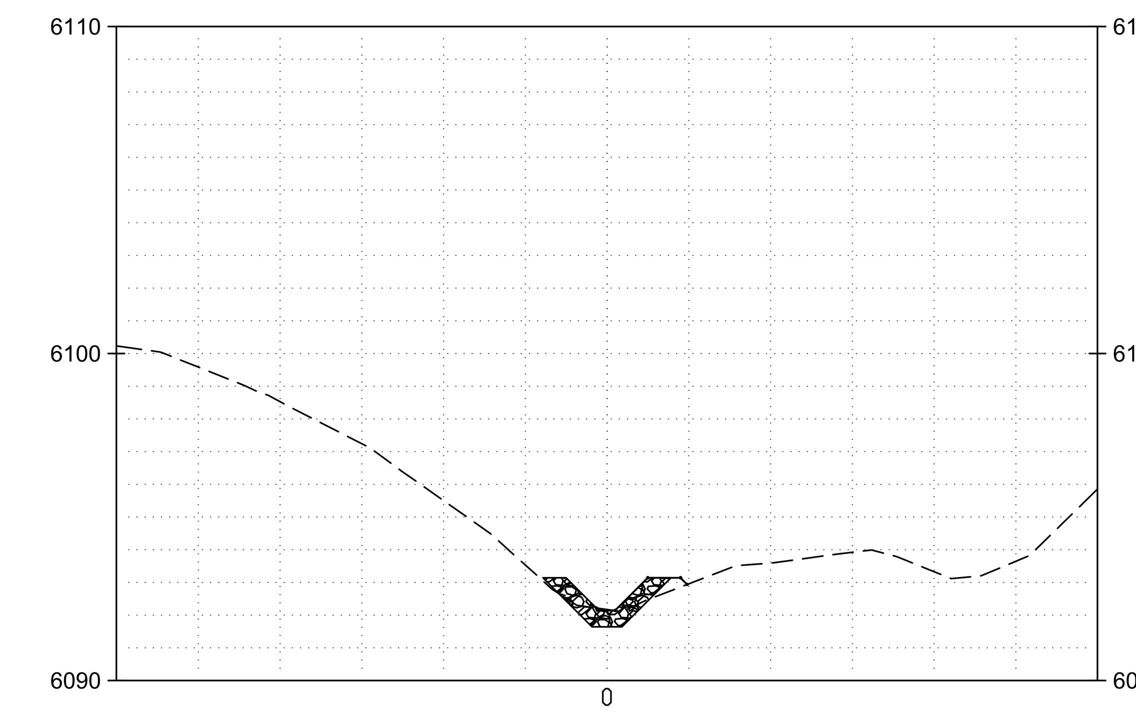

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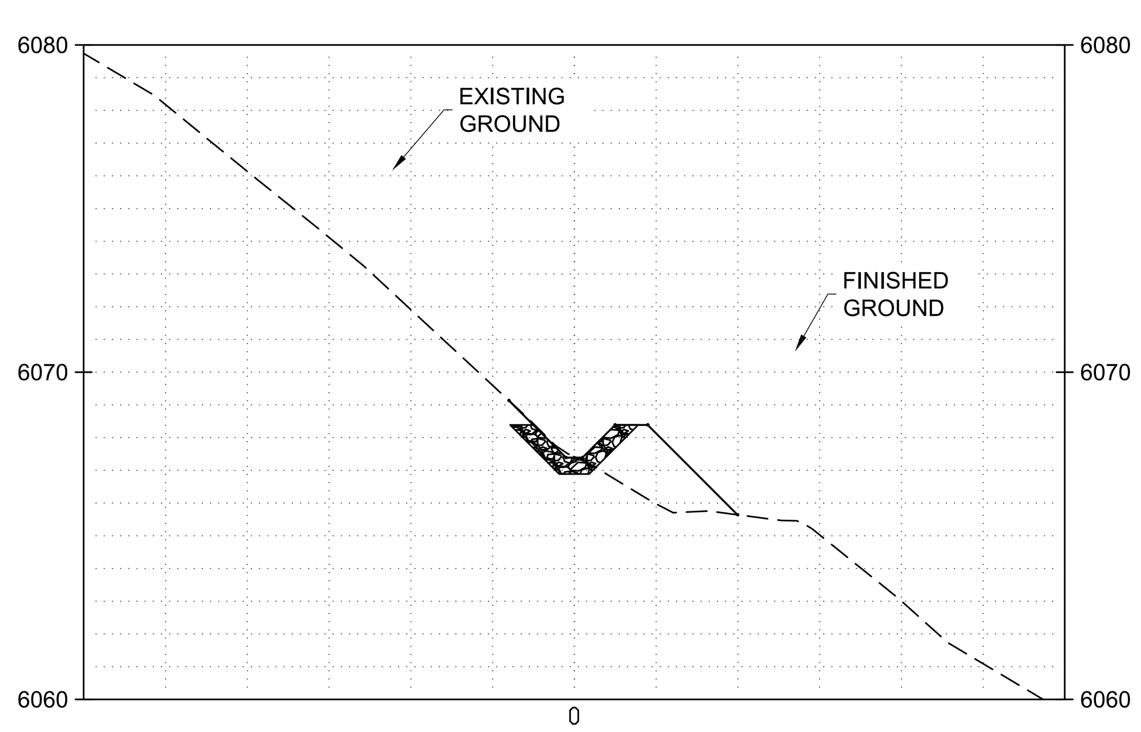

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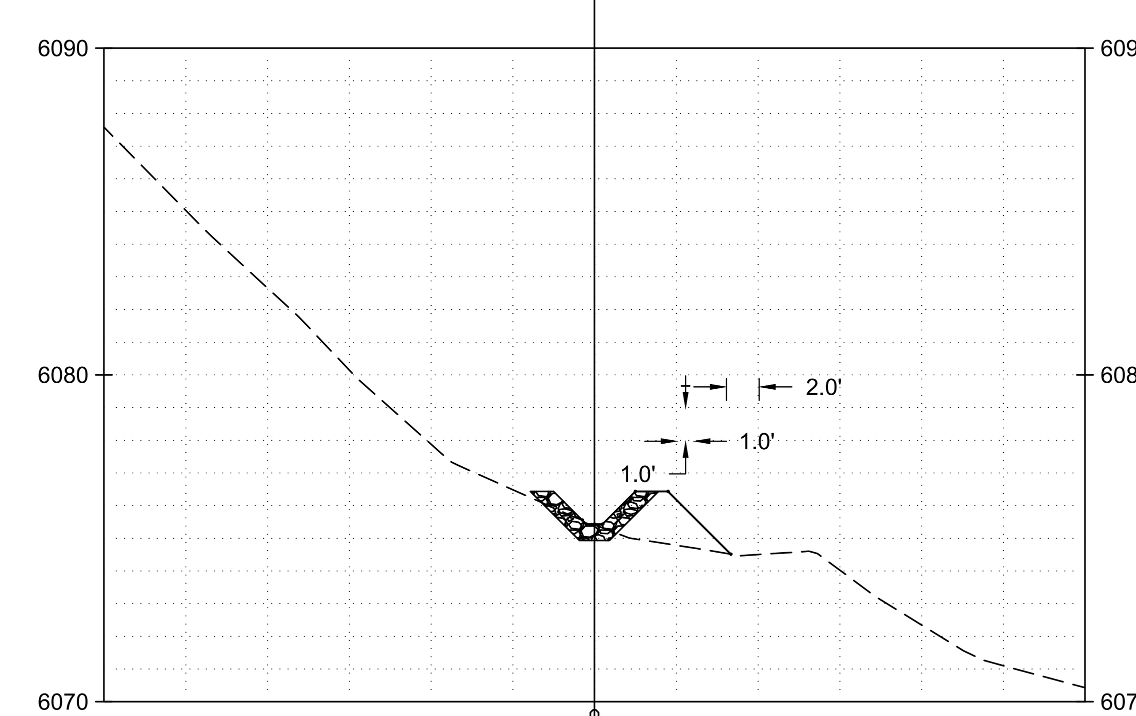

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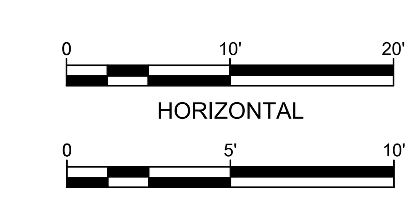

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NO.	DATE	APPR.	REVISION	NO.	DATE	APPR.	REVISION

VILLAGE OF MADRID, NM
STORM WATER & EROSION CONTROL PROJECT

MADRID NEW MEXICO

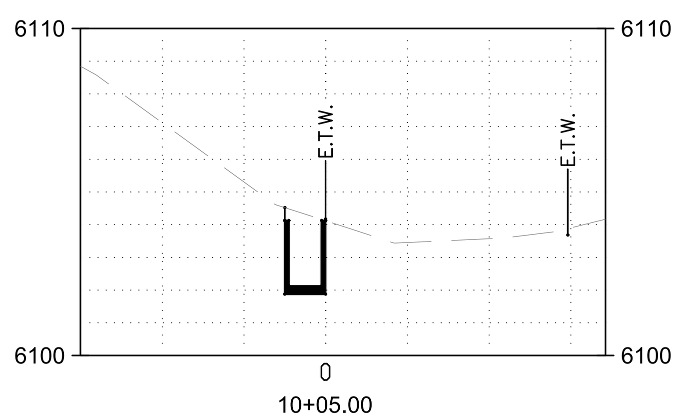
WESTON SOLUTIONS

ALBUQUERQUE NEW MEXICO

		DATE	CLIENT APPROVALS	DATE
CHECKED	SC	AUG 23		
DES. ENG.	SC/RGE/AMB	AUG 23		
PROJ. ENG.	RGE	AUG 23		
PROJ. MGR.	SC	AUG 23		
APPROVED				
APPROVED				

FIREHOUSE LANE AREA
MISSING LINK CHANNEL
CROSS SECTIONS

DRAWN	DATE	DWG. NO.	REV. NO.
RW	AUG 23	C112	B
SCALE	W.O. NO. 15740.001.003	SHT 42 OF 48	



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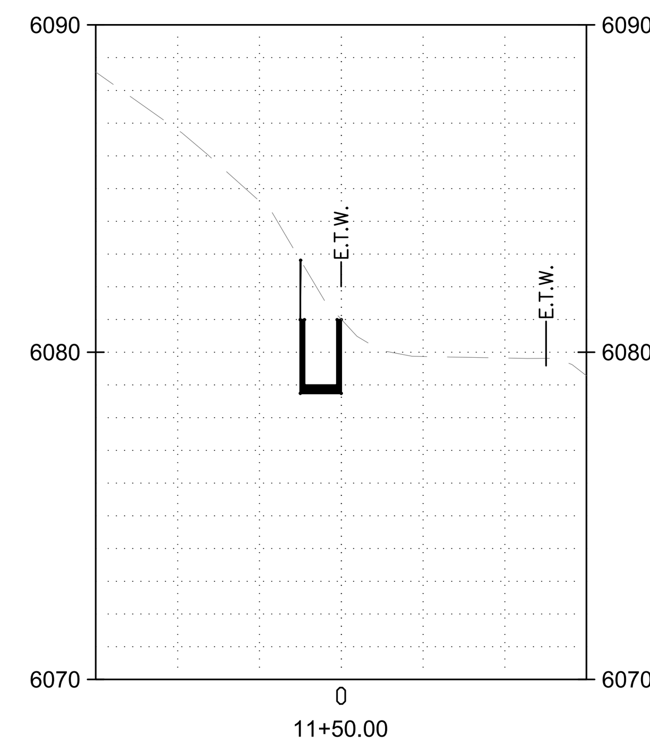

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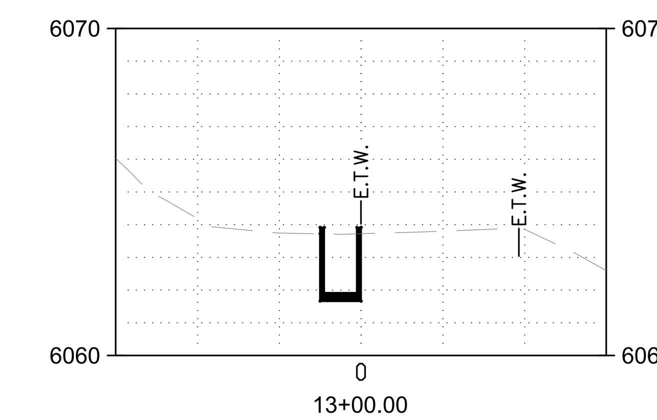
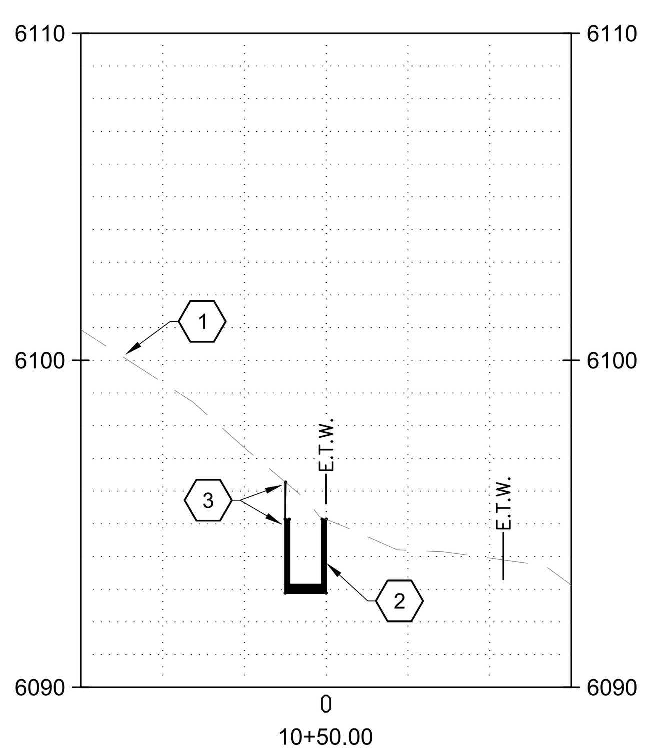


13+00.00

KEYED NOTES

1. EXISTING GROUND.
2. PROPOSED 2 FT X 2 FT RECTANGULAR CONCRETE CHANNEL.
3. EXTEND CONCRETE WALL TO MEET EXISTING GROUND. HEIGHT VARIES.



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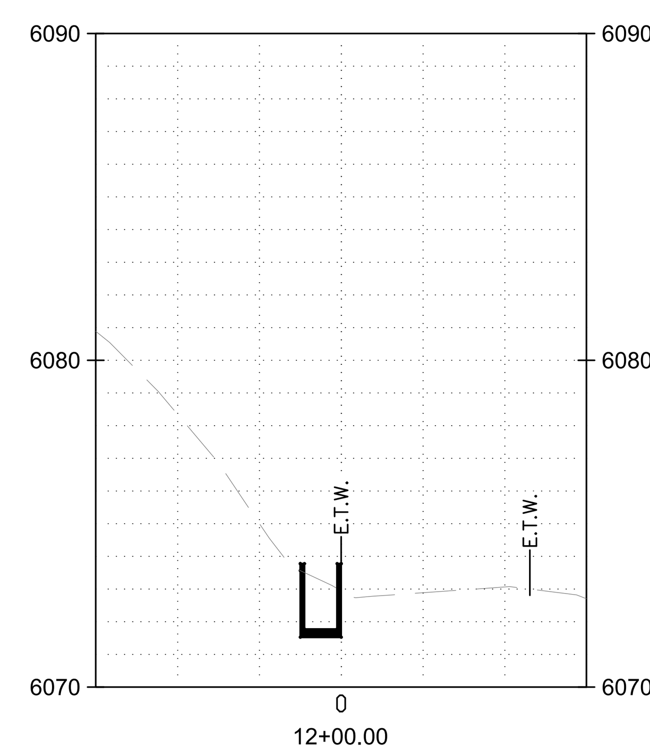

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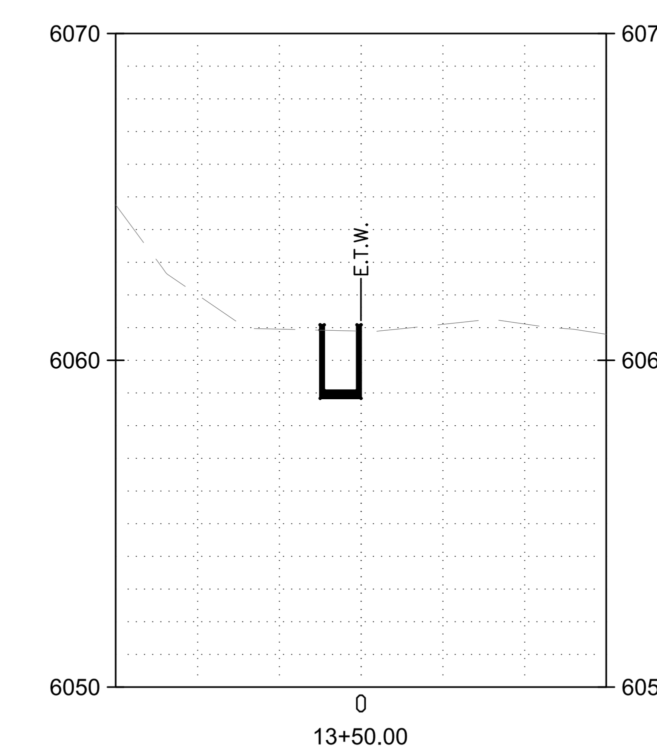

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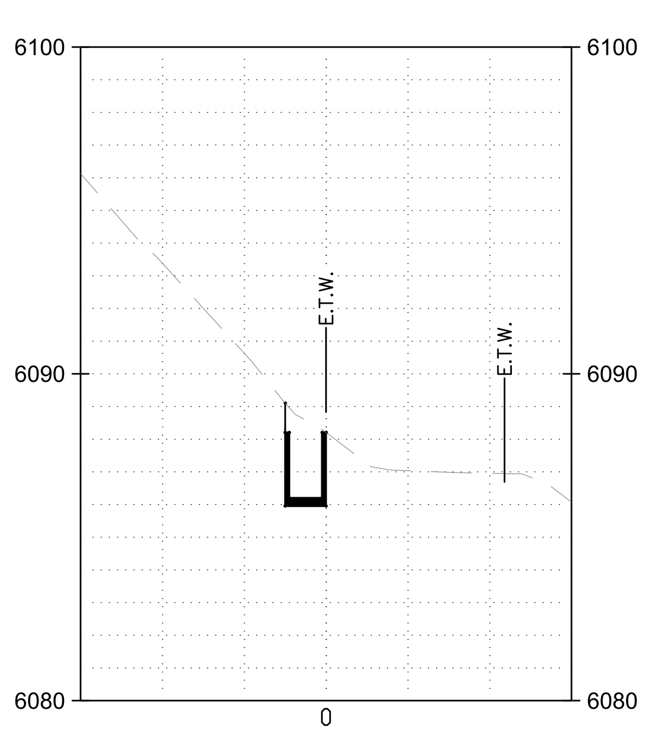

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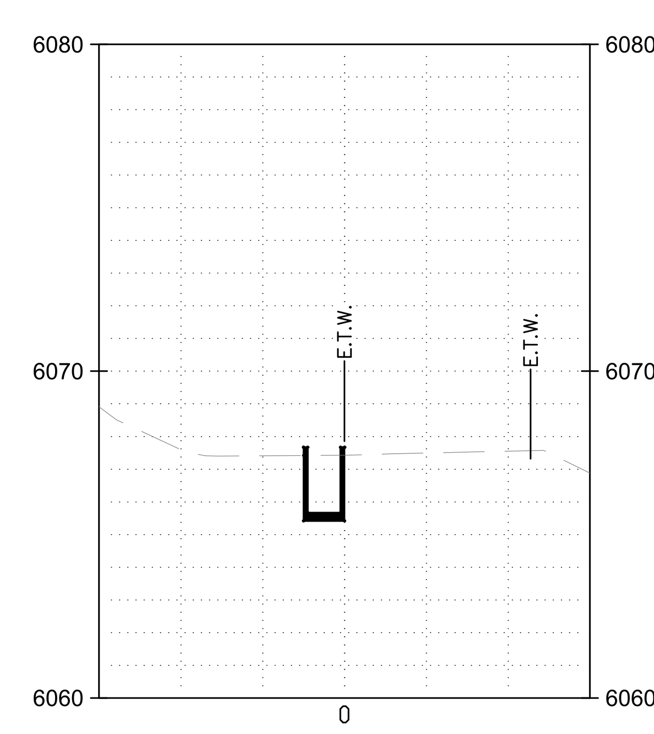

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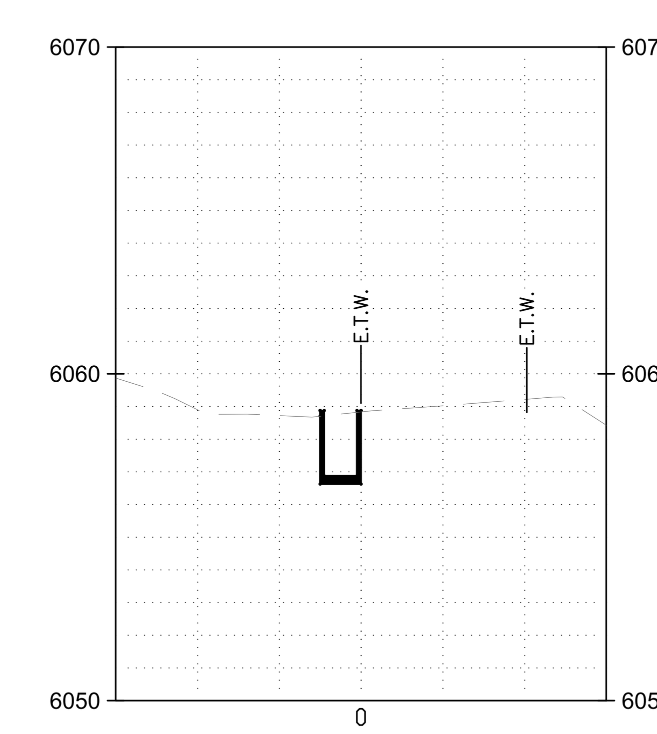


14+00.00

0 10' 20'
HORIZONTAL

0 5' 10'
VERTICAL

NO.	DATE	APPR.	REVISION
A	9/24/21		ISSUED FOR REVIEW
B	10/26/22		NM EMNRD-AML REVISIONS

VILLAGE OF MADRID, NM
STORM WATER & EROSION CONTROL PROJECT

MADRID — NEW MEXICO

WESTON SOLUTIONS

ALBUQUERQUE — NEW MEXICO

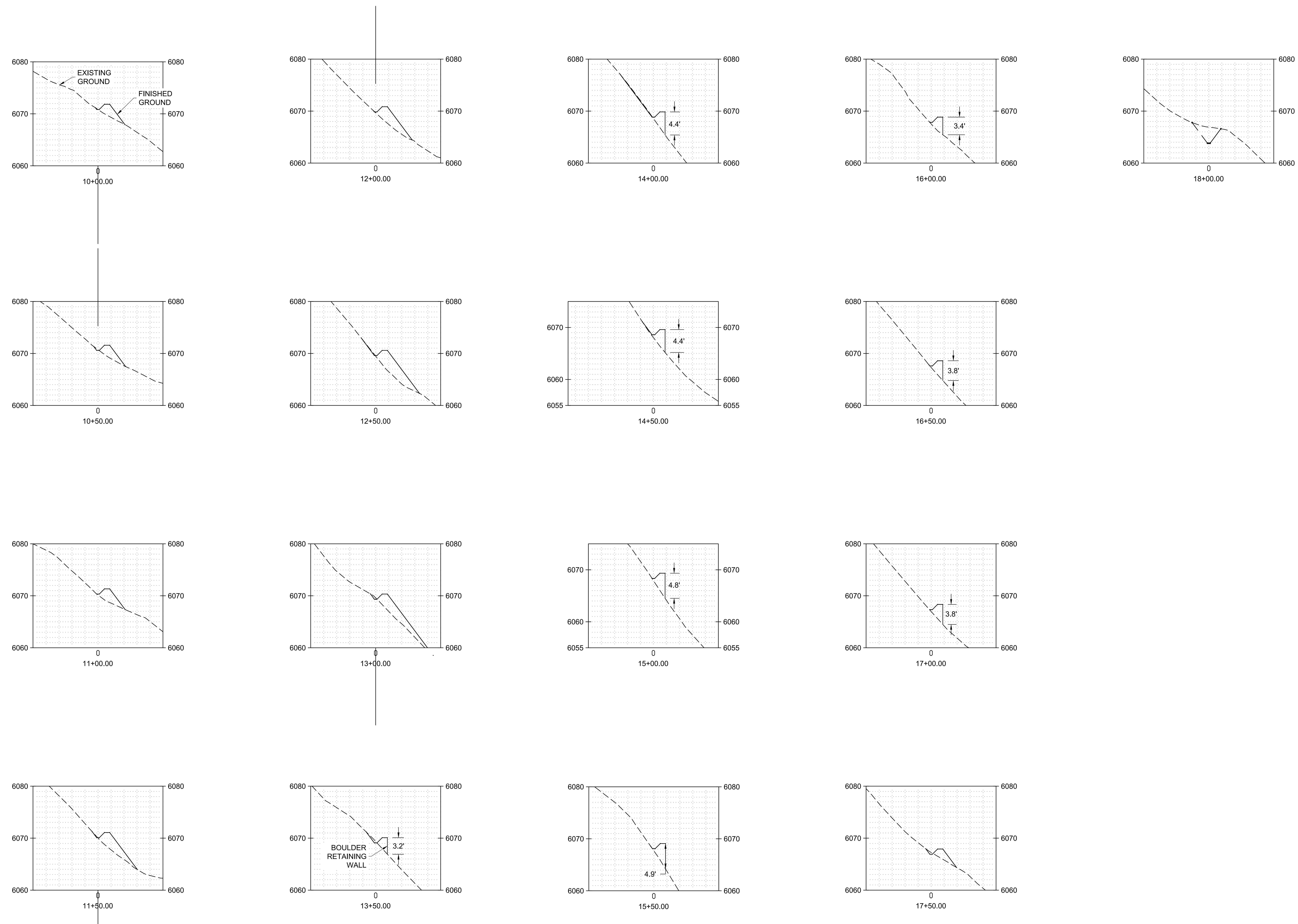
		DATE	CLIENT APPROVALS	DATE
CHECKED	SC	AUG 23		
DES. ENG.	SC/RGE/AMB	AUG 23		
PROJ. ENG.	RGE	AUG 23		
PROJ. MGR.	SC	AUG 23		
APPROVED				
APPROVED				

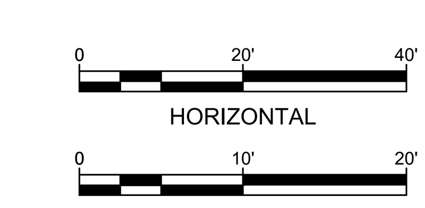
DRAFT
NOT FOR
CONSTRUCTION

EAST SLOPE SOUTH
DOMINGUEZ ROAD CHANNEL
CROSS SECTIONS

DRAWN	DATE	DWG. NO.	REV. NO.
RW	AUG 23	C113	B
SCALE	W.O. NO. 15740.001.003	SHT 43 OF 48	

C:\Users\waters\Documents\Madrid Stormwater\90\Firehouse Area XSects.dwg October 18, 2023 - 12:18pm





NO.	DATE	APPR.	REVISION	NO.	DATE	APPR.	REVISION
A	9/24/21		ISSUED FOR REVIEW				
B	10/26/22		NM EMNRD-AML REVISIONS				

VILLAGE OF MADRID, NM
STORM WATER & EROSION CONTROL PROJECT

MADRID — NEW MEXICO

WESTON SOLUTIONS

ALBUQUERQUE — NEW MEXICO

		DATE	CLIENT APPROVALS	DATE
CHECKED	SC	AUG 23		
DES. ENG.	SC/RGE/AMB	AUG 23		
PROJ. ENG.	RGE	AUG 23		
PROJ. MGR.	SC	AUG 23		
APPROVED				
APPROVED				

DRAFT
NOT FOR
CONSTRUCTION

EAST SLOPE SOUTH
RED DOG ROAD INTERCEPTOR
CROSS SECTIONS (1 OF 2)

DRAWN	DATE	DWG. NO.	REV. NO.
RW	AUG 23	C115	B
SCALE	W.O. NO. 15740.001.003	SHT 45 OF 48	

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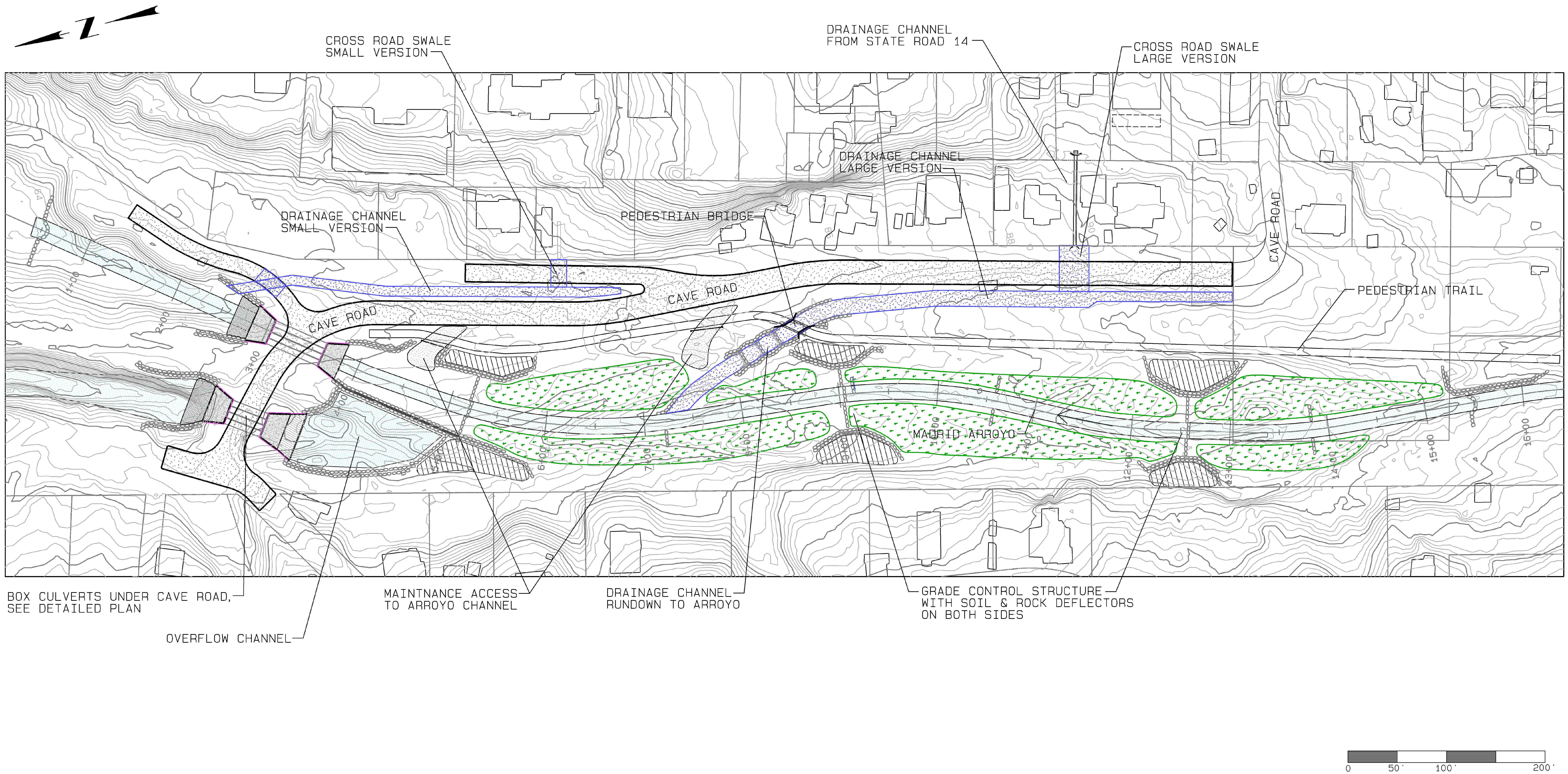


NO.	DATE	APPR.	REVISION	NO.	DATE	APPR.	REVISION

VILLAGE OF MADRID
STORM WATER DAMAGE REDUCTION PROJECT

MADRID NEW MEXICO

RIVERBEND ENGINEERING, LLC

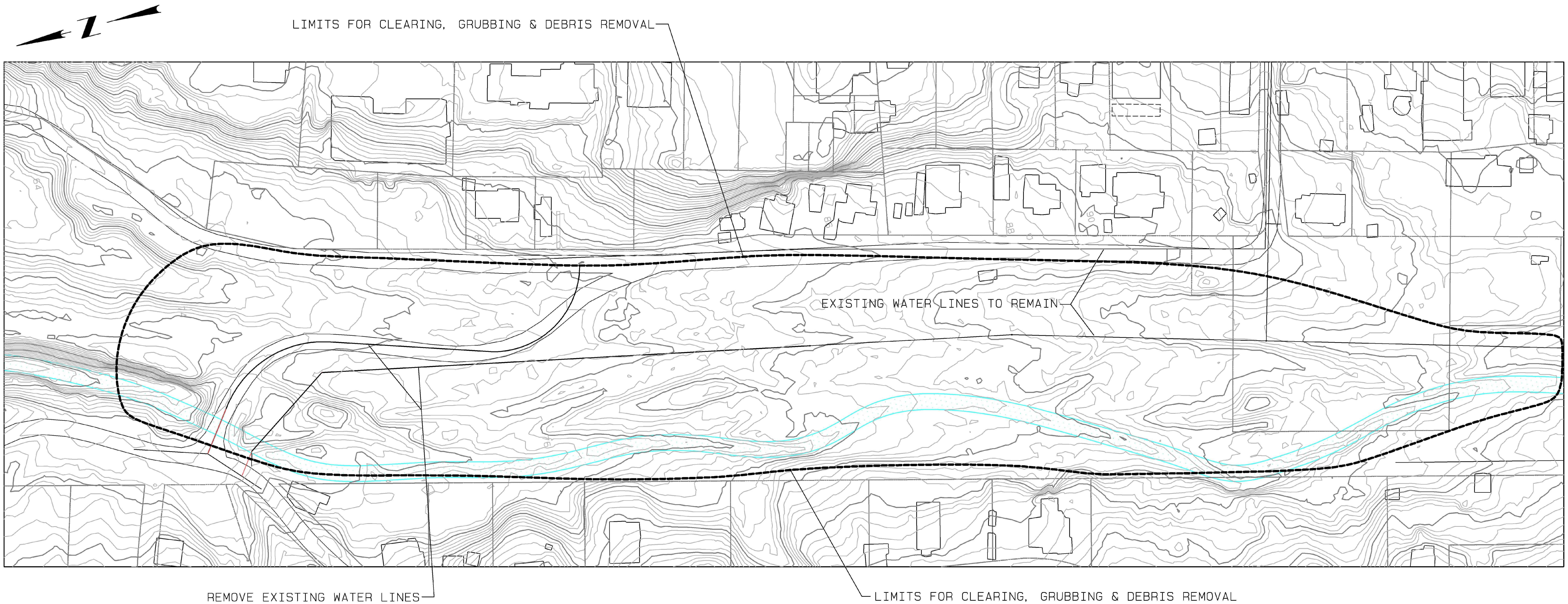
ALBUQUERQUE NEW MEXICO

		DATE	CLIENT APPROVALS	DATE
CHECKED	CP	--		
DES. ENG.	CP	--		
PROJ. ENG.	CP	--		
PROJ. MGR.	RGE	--		
APPROVED	--	--		
APPROVED	--	--		

MADRID ARROYO
SITE PLAN
--

DRAWN	DATE	DWG. NO.	REV. NO.
C. PHILLIPS	23	C-201	A
SCALE 1:1	W.O. NO. --	SHT -- OF --	

Oct 30,2023 – 2:59pm ederer



DESIGN NOTES:
STILL NEED TO SHOW EXISTING WATER HYDRANTS.
NEED TO REVIEW WATER LINE REMOVALS AND
WATER SUPPLY DURING CONSTRUCTION WITH
THE MADRID WATER USERS ASSOCIATION.

REMOVAL NOTES:
REMOVAL ALL SHRUBS & TREES WITHIN THE LIMIT LINES.
REMOVE ALL TRASH & DEBRIS.
OLD METAL SCRAPS SHALL BE RECYCLED.

0 50' 100' 200'

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

VILLAGE OF MADRID
STORM WATER DAMAGE REDUCTION PROJECT

MADRID NEW MEXICO

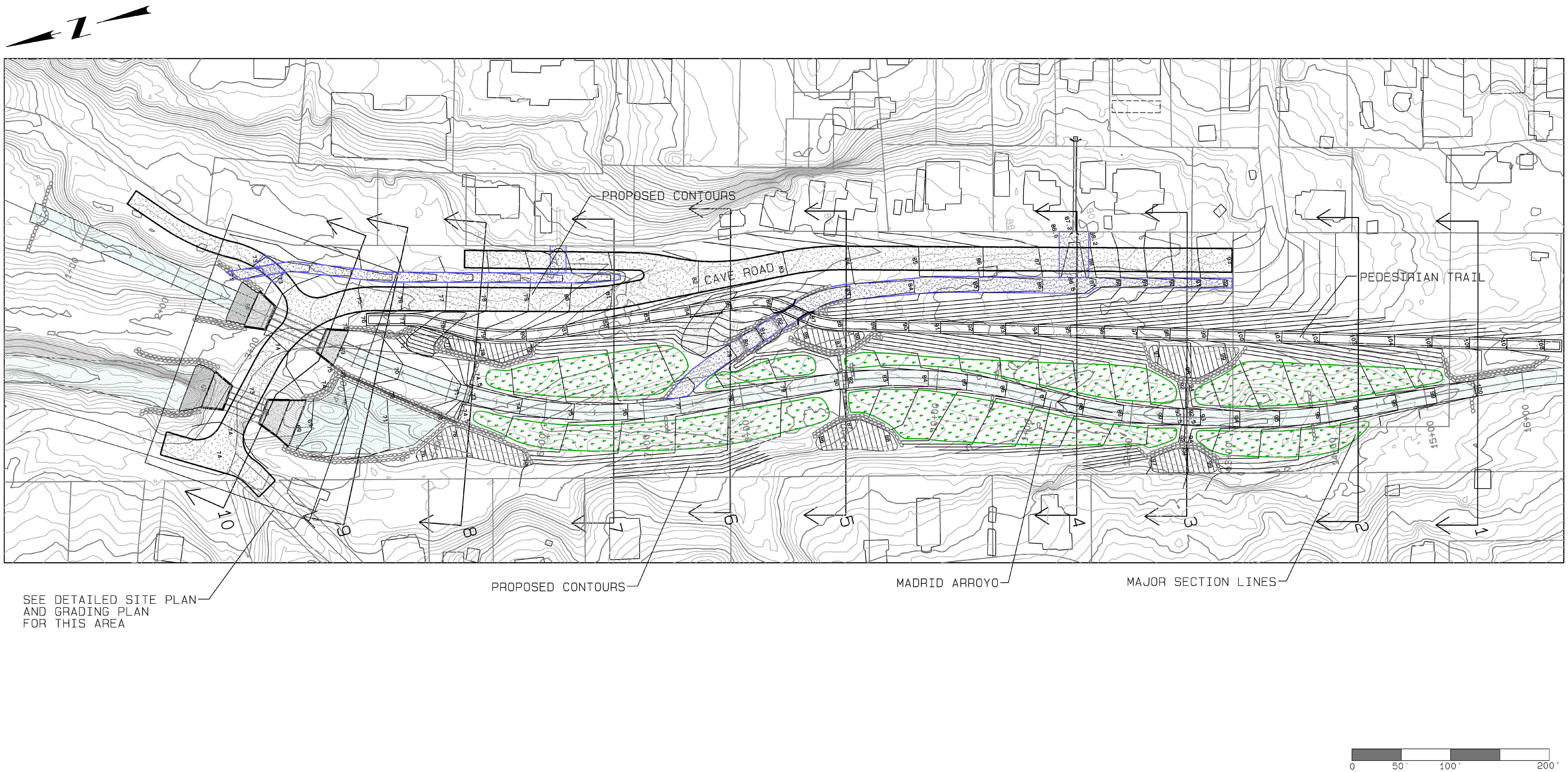
RIVERBEND ENGINEERING, LLC

ALBUQUERQUE NEW MEXICO

		DATE	CLIENT APPROVALS	DATE
CHECKED	CP	--		
DES. ENG.	CP	--		
PROJ. ENG.	CP	--		
PROJ. MGR.	RGE	--		
APPROVED	--	--		
APPROVED	--	--		

MADRID ARROYO
DEMOLITION PLAN
--

DRAWN	DATE	DWG. NO.	REV. NO.
C. PHILLIPS	23	C-202	A
SCALE	W.O. NO.	SHT -- OF --	
1:1	--		



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

VILLAGE OF MADRID
STORM WATER DAMAGE REDUCTION PROJECT

MADRID NEW MEXICO

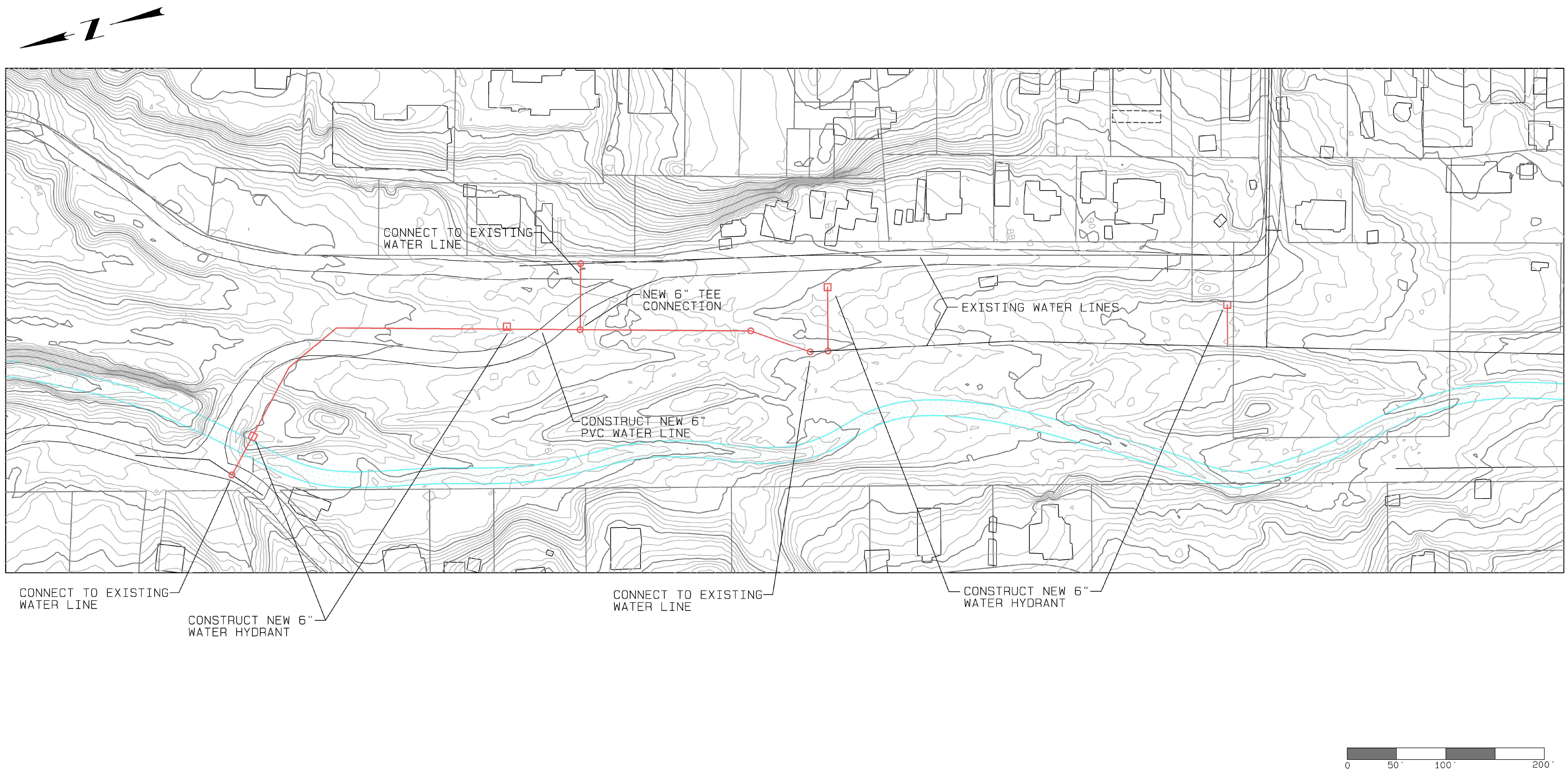
RIVERBEND ENGINEERING, LLC

ALBUQUERQUE NEW MEXICO

		DATE	CLIENT APPROVALS	DATE
CHECKED	CP	--		
DES. ENG.	CP	--		
PROJ. ENG.	CP	--		
PROJ. MGR.	RGE	--		
APPROVED	--	--		
APPROVED	--	--		

MADRID ARROYO GRADING PLAN
--

DRAWN	DATE	DWG. NO.	REV. NO.
C. PHILLIPS	23	C-203	A
SCALE 1:1	W.O. NO. --	SHT -- OF --	



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

VILLAGE OF MADRID
STORM WATER DAMAGE REDUCTION PROJECT

MADRID NEW MEXICO

RIVERBEND ENGINEERING, LLC

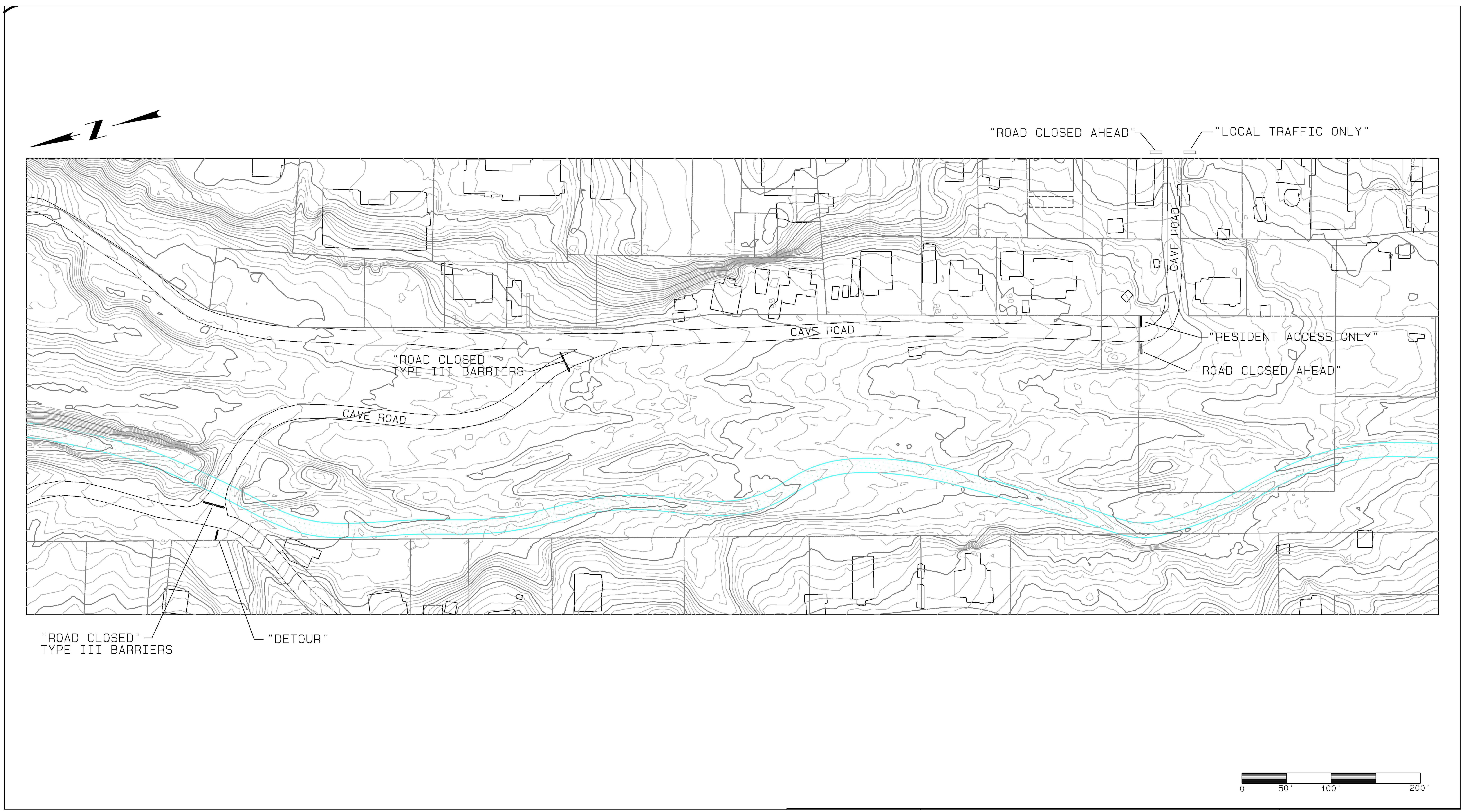
ALBUQUERQUE NEW MEXICO

		DATE	CLIENT APPROVALS	DATE
CHECKED	CP	--		
DES. ENG.	CP	--		
PROJ. ENG.	CP	--		
PROJ. MGR.	RGE	--		
APPROVED	--	--		
APPROVED	--	--		

MADRID ARROYO
UTILITIES PLAN
--

DRAWN	DATE	DWG. NO.	REV. NO.
C. PHILLIPS	23	C-204	A
SCALE 1:1	W.O. NO. --	SHT -- OF --	

Oct 30,2023 - 2:59pm edererr



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

VILLAGE OF MADRID
STORM WATER DAMAGE REDUCTION PROJECT

MADRID NEW MEXICO

Riverbend Engineering, LLC

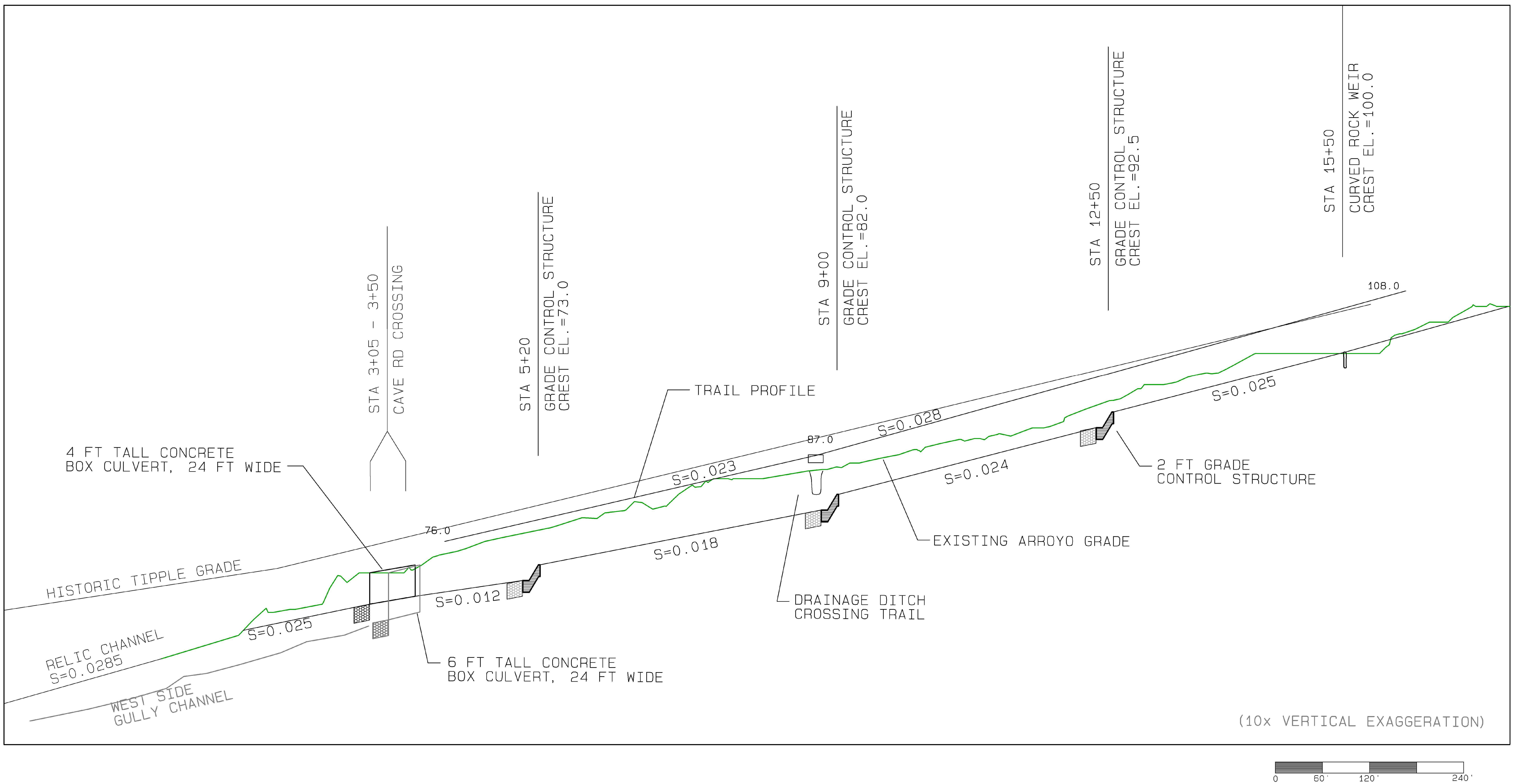
ALBUQUERQUE NEW MEXICO

		DATE
CHECKED	CP	--
DES. ENG.	CP	--
PROJ. ENG.	CP	--
PROJ. MGR.	RGE	--
APPROVED	--	--
APPROVED	--	--

CLIENT APPROVALS	DATE

MADRID ARROYO
TRAFFIC CONTROL PLAN
--

DRAWN	DATE	DWG. NO.	REV. NO.
C. PHILLIPS	23	C-205	A
SCALE 1:1	W.O. NO. --	SHT -- OF --	



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

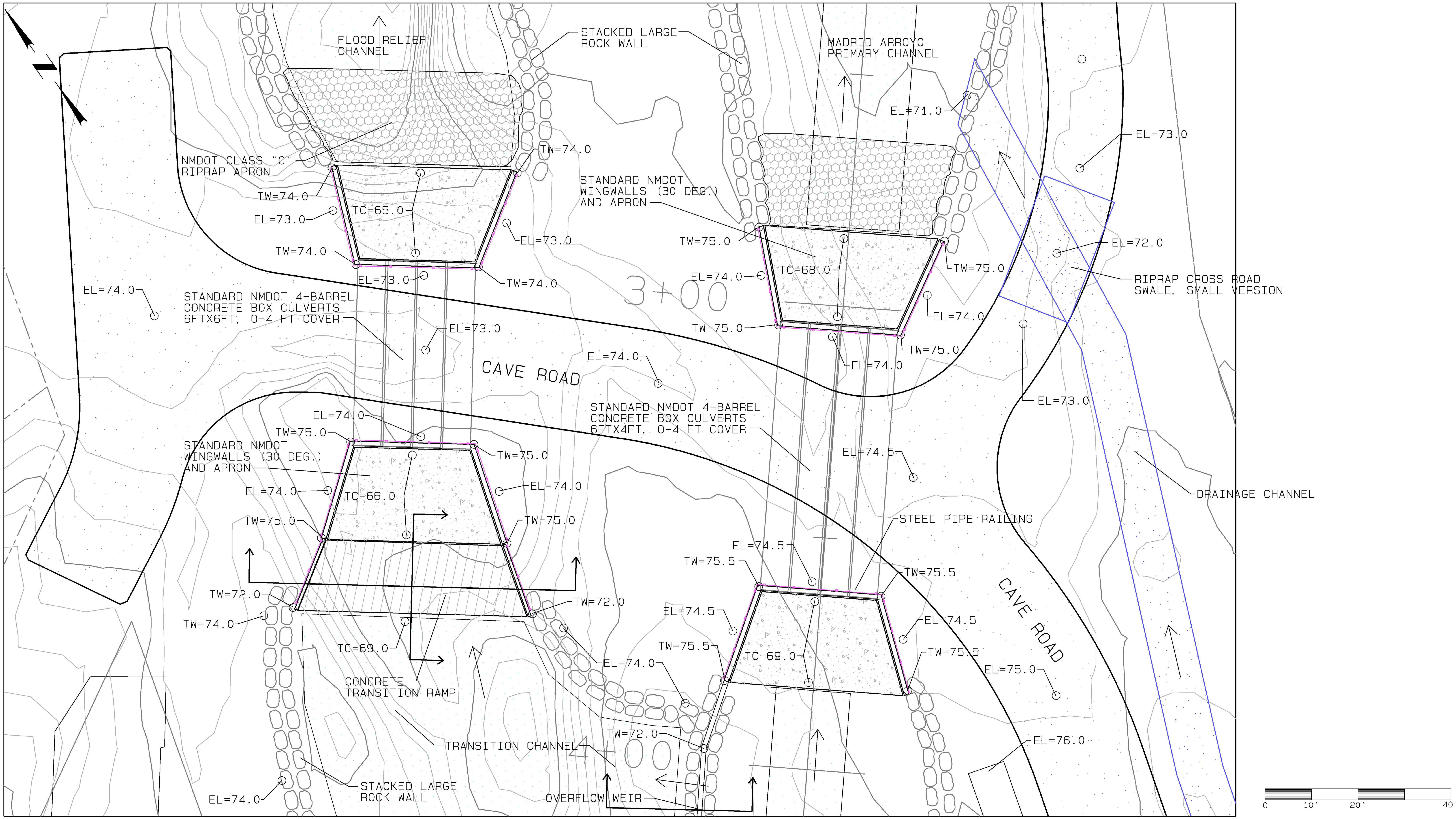
VILLAGE OF MADRID
STORM WATER DAMAGE REDUCTION PROJECT
MADRID NEW MEXICO

RIVERBEND ENGINEERING, LLC
ALBUQUERQUE NEW MEXICO

		DATE	CLIENT APPROVALS	DATE
CHECKED	CP	--		
DES. ENG.	CP	--		
PROJ. ENG.	CP	--		
PROJ. MGR.	RGE	--		
APPROVED	--	--		
APPROVED	--	--		

MADRID ARROYO
ARROYO AND TRAIL PROFILE
--

DRAWN	DATE	DWG. NO.	REV. NO.
C. PHILLIPS	23	C-206	A
SCALE 1:1	W.O. NO. --	SHT -- OF --	



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

VILLAGE OF MADRID
STORM WATER DAMAGE REDUCTION PROJECT

MADRID — NEW MEXICO

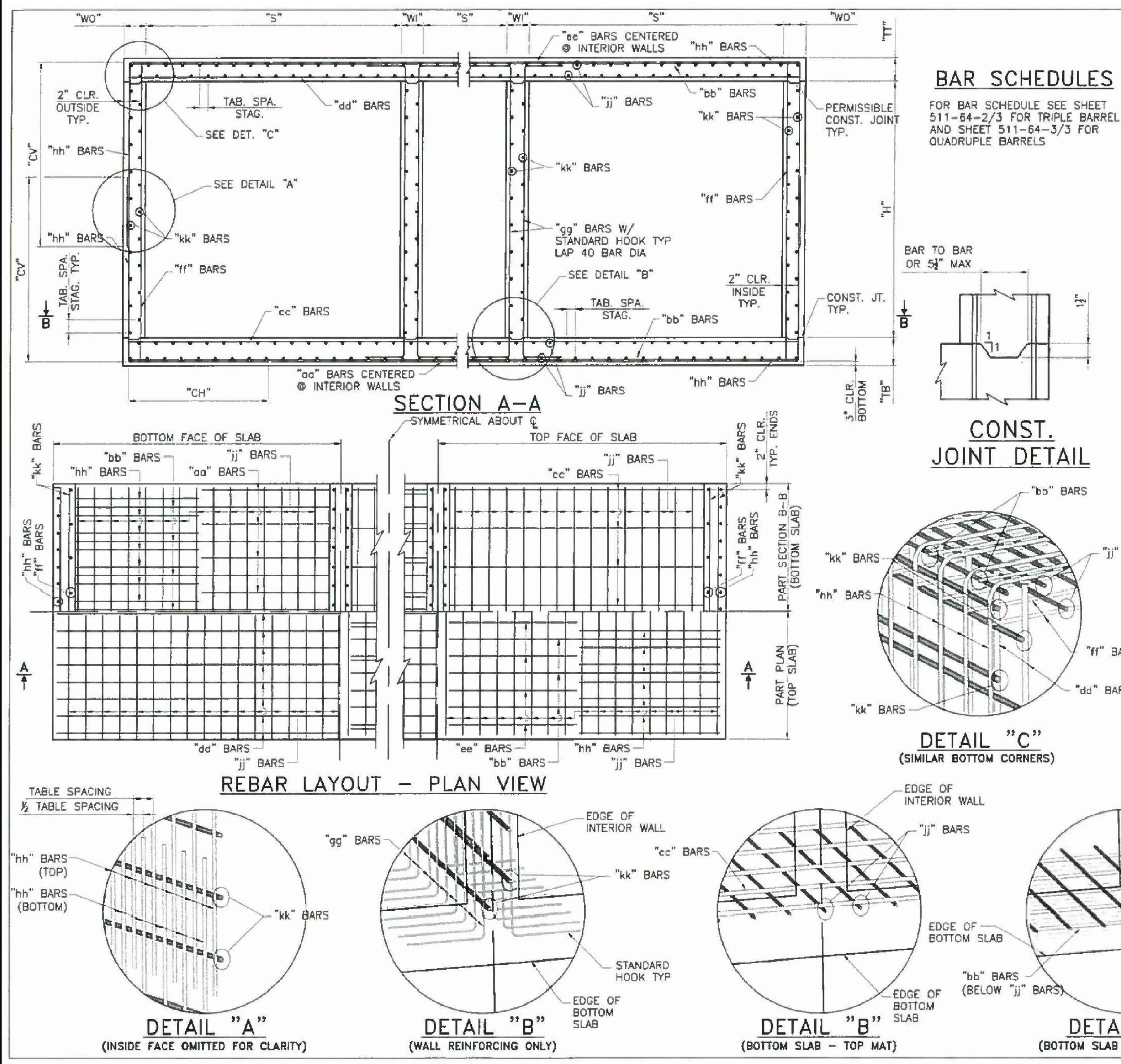
Riverbend Engineering, LLC

ALBUQUERQUE — NEW MEXICO

		DATE	CLIENT APPROVALS	DATE
CHECKED	CP	--		
DES. ENG.	CP	--		
PROJ. ENG.	CP	--		
PROJ. MGR.	RGE	--		
APPROVED	--	--		
APPROVED	--	--		

MADRID ARROYO
SITE PLAN AT CAVE RD
ARROYO CROSSING

DRAWN	DATE	DWG. NO.	REV. NO.
C. PHILLIPS	23	C-207	A
SCALE 1:1	W.O. NO. --	SHT -- OF --	



BAR SCHEDULES

FOR BAR SCHEDULE SEE SHEET 511-64-2/3 FOR TRIPLE BARREL AND SHEET 511-64-3/3 FOR QUADRUPLE BARRELS

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 ¾".
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. "jj" AND "kk" 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 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 "L" AND TRIPLE BARREL SHALL BE 3 X "L" 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 540050.

NO.	DATE	REV. BY	DESCRIPTION
REVISIONS (OR CHANGE NOTICES)			

NEW MEXICO
DEPARTMENT OF TRANSPORTATION
STANDARD DRAWING

CBC TRIPLE AND QUADRUPLE OPENING – DESIGN FILL "A" 0–10 FT. STRUCTURAL SECTIONS AND REBAR

APPROVED ______ DESIGN ENGINEER 5/31/06 DATE

DESIGNED BY TLB DRAWN BY SGL CHECKED BY HDR

511-64-1/3 1 OF 3

CBC SHEET 129

QUADRUPLE OPENING BOX CULVERT STRUCTURE DIMENSIONS						GRADE 60 REINFORCING BAR SCHEDULE (BAR SIZE, SPACING AND LENGTH DIMENSIONS)																									
DIM		0-10 FT BURIAL DESIGN FILL "A"				"aa"		"ee"		"aa" & "ee"		"bb"		"cc"		"dd"		"bb", "cc" & "dd"	"ff"		"gg"		"ff" & "gg" **	"hh"				"jj"		"kk"	
SPAN "S" INSIDE	HEIGHT "H" INSIDE	TOP SLAB "TT"	BOTTOM SLAB "TB"	WALLS OUTER "WO"	WALLS INTERIOR "WI"	SIZE	SPACING	SIZE	SPACING	LENGTH	NUMBER OF BARS	SIZE	SPACING	SIZE	SPACING	SIZE	SPACING	LENGTH	SIZE	SPACING	SIZE	SPACING	LENGTH	SIZE	SPACING	"CH" LENGTH	"CV" LENGTH	SIZE	STAGGERED SPACING	SIZE	STAGGERED SPACING
4'	2'	7.5"	8.5"	7.5"	6.0"	#4	12"	#5	12"	5'-0"	3	#5	12"	#4	6"	#4	6"	18'-5"	#4	6"	#4	12"	2'-11"	#4	6"	24"	25"	#4	6"	#4	6"
4'	3'	7.5"	8.5"	7.5"	6.0"	#4	12"	#5	12"	5'-0"	3	#5	12"	#4	6"	#4	6"	18'-5"	#4	6"	#4	12"	3'-11"	#4	6"	24"	31"	#4	6"	#4	6"
4'	4'	7.5"	8.5"	7.5"	6.0"	#4	12"	#5	12"	5'-0"	3	#5	12"	#4	6"	#4	6"	18'-5"	#4	6"	#4	12"	4'-11"	#4	6"	24"	37"	#4	6"	#4	6"
6'	2'	8.0"	8.5"	7.5"	6.0"	#5	12"	#7	12"	7'-5"	3	#7	12"	#6	6"	#5	6"	26'-5"	#5	6"	#4	12"	2'-11"	#5	6"	30"	27"	#4	6"	#4	6"
6'	3'	8.0"	8.5"	7.5"	6.0"	#5	12"	#7	12"	7'-5"	3	#7	12"	#6	6"	#5	6"	26'-5"	#5	6"	#4	12"	3'-11"	#5	6"	30"	33"	#4	6"	#4	6"
6'	4'	8.0"	8.5"	7.5"	6.0"	#5	12"	#7	12"	7'-5"	3	#7	12"	#6	6"	#5	6"	26'-5"	#5	6"	#4	12"	4'-11"	#5	6"	30"	39"	#4	6"	#4	6"
6'	5'	8.0"	8.5"	7.5"	6.0"	#5	12"	#7	12"	7'-5"	3	#7	12"	#6	6"	#5	6"	26'-5"	#5	6"	#4	12"	5'-11"	#5	6"	30"	45"	#4	6"	#4	6"
6'	6'	8.0"	8.5"	7.5"	6.0"	#5	12"	#7	12"	7'-5"	3	#7	12"	#6	6"	#5	6"	26'-5"	#5	6"	#4	12"	6'-11"	#5	6"	30"	51"	#4	6"	#4	6"
6'	7'	8.0"	8.5"	7.5"	6.0"	#5	12"	#7	12"	7'-5"	3	#7	12"	#6	6"	#5	6"	26'-5"	#5	6"	#4	12"	7'-11"	#5	6"	30"	57"	#4	6"	#4	6"
8'	4'	9.5"	9.0"	7.5"	6.0"	#7	12"	#7	12"	8'-5"	3	#7	12"	#5	6"	#5	6"	34'-5"	#5	6"	#4	12"	5'-1"	#6	6"	36"	41"	#4	6"	#4	6"
8'	5'	9.5"	9.0"	7.5"	6.0"	#7	12"	#7	12"	8'-5"	3	#7	12"	#5	6"	#5	6"	34'-5"	#5	6"	#4	12"	6'-1"	#6	6"	36"	47"	#4	6"	#4	6"
8'	6'	9.5"	9.0"	7.5"	6.0"	#7	12"	#7	12"	8'-5"	3	#7	12"	#5	6"	#5	6"	34'-5"	#5	6"	#4	12"	7'-1"	#6	6"	36"	53"	#4	6"	#4	6"
8'	7'	9.5"	9.0"	7.5"	6.0"	#7	12"	#7	12"	8'-5"	3	#7	12"	#5	6"	#5	6"	34'-5"	#5	6"	#4	12"	8'-1"	#6	6"	36"	59"	#4	6"	#4	6"
8'	8'	9.5"	9.0"	7.5"	6.0"	#7	12"	#7	12"	8'-5"	3	#7	12"	#5	6"	#5	6"	34'-5"	#5	6"	#4	12"	9'-1"	#6	6"	36"	65"	#4	6"	#4	6"
10'	3'	11.0"	10.5"	7.5"	6.0"	#8	12"	#7	12"	10'-9"	3	#8	12"	#6	6"	#6	6"	42'-5"	#6	6"	#4	12"	4'-4"	#6	6"	38"	37"	#4	6"	#4	6"
10'	4'	11.0"	10.5"	7.5"	6.0"	#8	12"	#7	12"	10'-9"	3	#8	12"	#6	6"	#6	6"	42'-5"	#6	6"	#4	12"	5'-4"	#6	6"	38"	43"	#4	6"	#4	6"
10'	5'	11.0"	10.5"	7.5"	6.0"	#8	12"	#7	12"	10'-9"	3	#8	12"	#6	6"	#6	6"	42'-5"	#6	6"	#4	12"	6'-4"	#6	6"	38"	49"	#4	6"	#4	6"
10'	6'	11.0"	10.5"	7.5"	6.0"	#8	12"	#7	12"	10'-9"	3	#8	12"	#6	6"	#6	6"	42'-5"	#6	6"	#4	12"	7'-4"	#6	6"	38"	55"	#4	6"	#4	6"
* 10'	7'	11.0"	10.5"	7.5"	6.0"	#8	12"	#7	12"	10'-9"	3	#8	12"	#6	6"	#6	6"	42'-5"	#6	6"	#4	12"	8'-4"	#6	6"	38"	61"	#4	6"	#4	6"
10'	8'	11.0"	10.5"	9.0"	6.0"	#8	12"	#7	12"	10'-10"	3	#8	12"	#6	6"	#6	6"	42'-8"	#6	6"	#4	12"	9'-4"	#7	6"	45"	69"	#4	6"	#4	6"
10'	9'	11.0"	10.5"	9.0"	6.0"	#8	12"	#7	12"	10'-10"	3	#8	12"	#6	6"	#6	6"	42'-8"	#6	6"	#4	12"	10'-4"	#7	6"	45"	75"	#4	6"	#4	6"
10'	10'	11.0"	10.5"	9.0"	6.0"	#8	12"	#7	12"	10'-10"	3	#8	12"	#6	6"	#6	6"	42'-8"	#6	6"	#4	12"	11'-4"	#7	6"	45"	81"	#4	6"	#4	6"
10'	11'	11.0"	10.5"	9.0"	6.0"	#8	12"	#7	12"	10'-10"	3	#8	12"	#6	6"	#6	6"	42'-8"	#6	6"	#4	12"	12'-4"	#7	6"	45"	87"	#4	6"	#4	6"
10'	12'	11.0"	10.5"	9.0"	6.0"	#8	12"	#7	12"	10'-10"	3	#8	12"	#6	6"	#6	6"	42'-8"	#6	6"	#4	12"	13'-4"	#7	6"	45"	93"	#4	6"	#4	6"
12'	6'	12.5"	12.0"	9.0"	6.0"	#8	12"	#8	12"	11'-10"	3	#8	12"	#6	6"	#7	6"	50'-8"	#7	6"	#4	12"	7'-7"	#8	6"	55"	63"	#4	6"	#4	6"
12'	7'	12.5"	12.0"	9.0"	6.0"	#8	12"	#8	12"	11'-10"	3	#8	12"	#6	6"	#7	6"	50'-8"	#7	6"	#4	12"	8'-7"	#8	6"	55"	69"	#4	6"	#4	6"
12'	8'	12.5"	12.0"	9.0"	6.0"	#8	12"	#8	12"	11'-10"	3	#8	12"	#6	6"	#7	6"	50'-8"	#7	6"	#4	12"	9'-7"	#8	6"	55"	75"	#4	6"	#4	6"
12'	9'	12.5"	12.0"	9.0"	6.0"	#8	12"	#8	12"	11'-10"	3	#8	12"	#6	6"	#7	6"	50'-8"	#7	6"	#4	12"	10'-7"	#8	6"	55"	81"	#4	6"	#4	6"
12'	10'	12.5"	12.0"	9.0"	6.0"	#8	12"	#8	12"	11'-10"	3	#8	12"	#6	6"	#7	6"	50'-8"	#7	6"	#4	12"	11'-7"	#8	6"	55"	87"	#4	6"	#4	6"
12'	12'	12.5"	12.0"	9.0"	6.0"	#8	12"	#8	12"	11'-10"	3	#8	12"	#6	6"	#7	6"	50'-8"	#7	6"	#4	12"	13'-7"	#8	6"	55"	99"	#4	6"	#4	6"
14'	8'	14.0"	13.0"	11.0"	7.0"	#9	12"	#8	12"	14'-4"	3	#9	12"	#7	6"	#7	6"	59'-3"	#7	6"	#4	12"	9'-10"	#8	6"	60"	76"	#4	6"	#4	6"
14'	9'	14.0"	13.0"	11.0"	7.0"	#9	12"	#8	12"	14'-4"	3	#9	12"	#7	6"	#7	6"	59'-3"	#7	6"	#4	12"	10'-10"	#8	6"	60"	82"	#4	6"	#4	6"
14'	10'	14.0"	13.0"	11.0"	7.0"	#9	12"	#8	12"	14'-4"	3	#9	12"	#7	6"	#7	6"	59'-3"	#7	6"	#4	12"	11'-10"	#8	6"	60"	88"	#4	6"	#4	6"
14'	11'	14.0"	13.0"	11.0"	7.0"	#9	12"	#8	12"	14'-4"	3	#9	12"	#7	6"	#7	6"	59'-3"	#7	6"	#4	12"	12'-10"	#8	6"	60"	94"	#4	6"	#4	6"
14'	12'	14.0"	13.0"	11.0"	7.0"	#9	12"	#8	12"	14'-4"	3	#9	12"	#7	6"	#7	6"	59'-3"	#7	6"	#4	12"	13'-10"	#8	6"	60"	100"	#4	6"	#4	6"
14'	13'	14.0"	13.0"	11.0"	7.0"	#9	12"	#8	12"	14'-4"	3	#9	12"	#7	6"	#7	6"	59'-3"	#7	6"	#4	12"	14'-10"	#8	6"	60"	106"	#4	6"	#4	6"
14'	14'	14.0"	13.0"	11.0"	7.0"	#9	12"	#8	12"	14'-4"	3	#9	12"	#7	6"	#7	6"	59'-3"	#7	6"	#4	12"	15'-10"	#8	6"	60"	112"	#4	6"	#4	6"

FOR EXTENSIONS OF EXISTING CBC'S OF S=5', S=7', AND S=9' SIZE SPANS NOT INCLUDED IN THIS TABLE, USE DIMENSIONS FOR NEXT GREATER SPAN TO BUILD. FOR EXAMPLE: FOR S=5' USE DESIGN DIMENSIONS FROM THE TABLE FOR S=6'. ALSO REDUCE THE S=6' TABLE LENGTH OF BARS "bb", "cc" AND "dd" BY ONE FOOT TO ACCOMMODATE THE SHORTER SPAN. SEE DETAILS ON SHEET 511-66-4/6. ANY OTHER SIZES OF BOX EXTENSIONS NOT COVERED BY THIS MODIFICATION SHALL BE DONE THROUGH SPECIAL DESIGNS INCLUDED IN THE PROJECT PLANS.

** TOTAL LENGTH OF "gg" BARS IS TABLE LENGTH PLUS TWO STANDARD 90° HOOKS AND OPTIONAL 40 BAR ∅ LAP IF NECESSARY.

* 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"				"aa"		"ee"		"aa" & "ee"		"bb"		"cc"		"dd"		"bb", "cc" & "dd"	"ff"		"gg"		"ff" & "gg"	"hh"				"jj"		"kk"	
SPAN "S" INSIDE	HEIGHT "H" INSIDE	TOP SLAB "TT"	BOTTOM SLAB "TB"	WALLS OUTER "WO"	WALLS INTERIOR "WI"	SIZE	SPACING	SIZE	SPACING	LENGTH	NUMBER OF BARS	SIZE	SPACING	SIZE	SPACING	SIZE	SPACING	LENGTH	SIZE	SPACING	SIZE	SPACING	LENGTH	SIZE	SPACING	"CH" LENGTH	"CV" LENGTH	SIZE	STAGGERED SPACING	SIZE	STAGGERED SPACING
10'	7'	11.0"	10.5"	7.5"	6.0"	#8	12"	#7	12"	10'-9"	3	#8	12"	#6	6"	#6	6"	42'-5"	#6	6"	#4	12"	8'-4"	#6	6"	38"	61"	#4	6"	#4	6"

NO.	DATE	REV. BY	DESCRIPTION
REVISIONS (OR CHANGE NOTICES)			

NEW MEXICO
DEPARTMENT OF TRANSPORTATION
STANDARD DRAWING

CONCRETE BOX CULVERT QUADRUPLE OPENING – DESIGN FILL "A" 0–10 FT. DIMENSIONS AND REBAR SCHEDULE

APPROVED ______ DESIGN ENGINEER APR 9, 07 DATE

DESIGNED BY TLB DRAWN BY SGL CHECKED BY HDR

511-64-3/3 3 OF 3

CBC SHEET 131

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

VILLAGE OF MADRID
STORM WATER DAMAGE REDUCTION PROJECT
MADRID — NEW MEXICO
ALBUQUERQUE — NEW MEXICO
RIVERBEND ENGINEERING, LLC

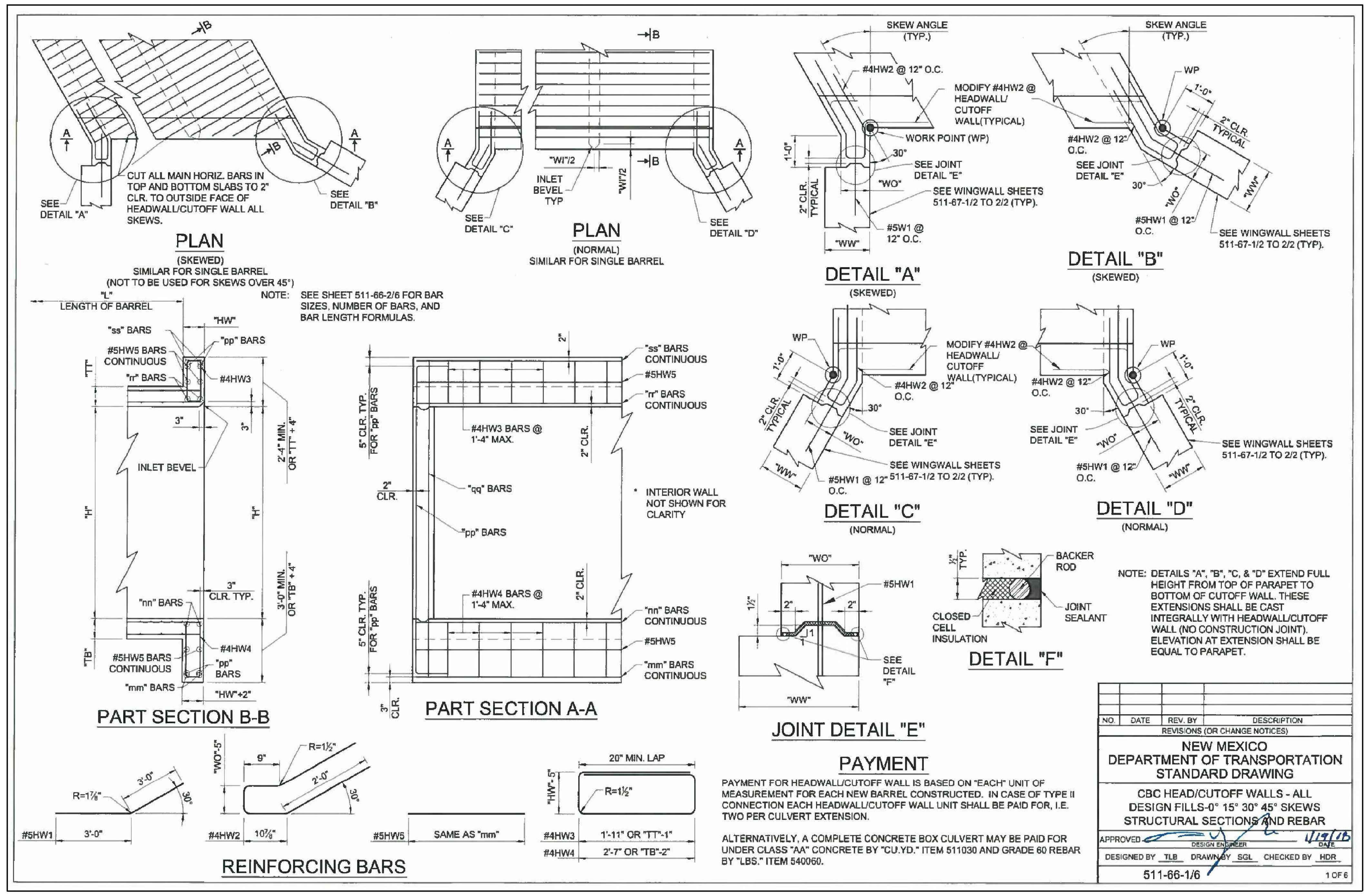
		DATE
CHECKED	CP	--
DES. ENG.	CP	--
PROJ. ENG.	CP	--
PROJ. MGR.	RGE	--
APPROVED	--	--
APPROVED	--	--

CLIENT APPROVALS — DATE

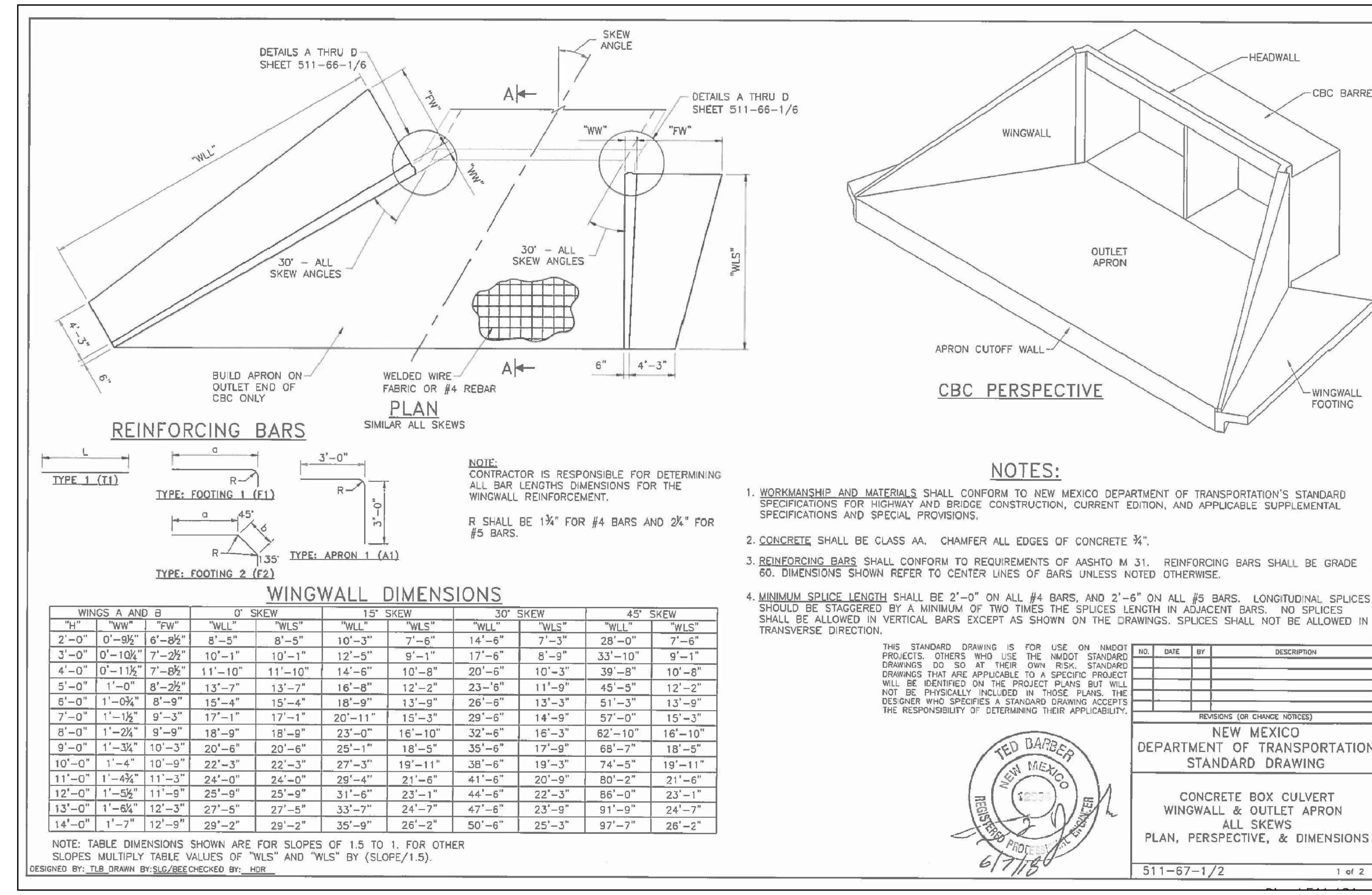
MADRID ARROYO
CONCRETE BOX CULVERT DETAILS
--

DRAWN	DATE	DWG. NO.	REV. NO.
C. PHILLIPS	23	C-208	A
SCALE 1:1	W.O. NO. --	SHT -- OF --	

Oct 30,2023 – 3:00pm ederer



CBC SHEET 135



WINGWALL DIMENSIONS

WINGS A AND B			0° SKEW		15° SKEW		30° SKEW		45° SKEW	
"H"	"WW"	"FW"	"WLL"	"WLS"	"WLL"	"WLS"	"WLL"	"WLS"	"WLL"	"WLS"
2'-0"	0'-9½"	6'-8½"	8'-5"	8'-5"	10'-3"	7'-6"	14'-6"	7'-3"	28'-0"	7'-6"
3'-0"	0'-10¼"	7'-2½"	10'-1"	10'-1"	12'-5"	9'-1"	17'-6"	8'-9"	33'-10"	9'-1"
4'-0"	0'-11½"	7'-8½"	11'-10"	11'-10"	14'-6"	10'-8"	20'-6"	10'-3"	39'-8"	10'-8"
5'-0"	1'-0"	8'-2½"	13'-7"	13'-7"	16'-8"	12'-2"	23-'6"	11'-9"	45'-5"	12'-2"
6'-0"	1'-0¾"	8'-9"	15'-4"	15'-4"	18'-9"	13'-9"	26'-6"	13'-3"	51'-3"	13'-9"
7'-0"	1'-1½"	9'-3"	17'-1"	17'-1"	20'-11"	15'-3"	29'-6"	14'-9"	57'-0"	15'-3"
8'-0"	1'-2¼"	9'-9"	18'-9"	18'-9"	23'-0"	16'-10"	32'-6"	16'-3"	62'-10"	16'-10"
9'-0"	1'-3¼"	10'-3"	20'-6"	20'-6"	25'-1"	18'-5"	35'-6"	17'-9"	68'-7"	18'-5"
10'-0"	1'-4"	10'-9"	22'-3"	22'-3"	27'-3"	19'-11"	38'-6"	19'-3"	74'-5"	19'-11"
11'-0"	1'-4¾"	11'-3"	24'-0"	24'-0"	29'-4"	21'-6"	41'-6"	20'-9"	80'-2"	21'-6"
12'-0"	1'-5½"	11'-9"	25'-9"	25'-9"	31'-6"	23'-1"	44'-6"	22'-3"	86'-0"	23'-1"
13'-0"	1'-6¼"	12'-3"	27'-5"	27'-5"	33'-7"	24'-7"	47'-6"	23'-9"	91'-9"	24'-7"
14'-0"	1'-7"	12'-9"	29'-2"	29'-2"	35'-9"	26'-2"	50'-6"	25'-3"	97'-7"	26'-2"

NOTE: TABLE DIMENSIONS SHOWN ARE FOR SLOPES OF 1.5 TO 1. FOR OTHER SLOPES MULTIPLY TABLE VALUES OF "WLS" AND "WLS" BY (SLOPE/1.5).

DESIGNED BY: TLB DRAWN BY: SLG/BEE CHECKED BY: HDR

CBC SHEET 140

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

VILLAGE OF MADRID
STORM WATER DAMAGE REDUCTION PROJECT

MADRID NEW MEXICO

RIVERBEND ENGINEERING, LLC

ALBUQUERQUE NEW MEXICO

CHECKED	CP	--		
DES. ENG.	CP	--		
PROJ. ENG.	CP	--		
PROJ. MGR.	RGE	--		
APPROVED	--	--		
APPROVED	--	--		

DATE · CLIENT APPROVALS · DATE

MADRID ARROYO
CONCRETE BOX CULVERT DETAILS
--

DRAWN: C. PHILLIPS | DATE: 23 | DWG. NO. C-209 | REV. NO. A

SCALE: 1:1 | W.O. NO. -- | SHT -- OF --

I:\Projects\...\RIVERBEND 90.dwg Oct 30,2023 - 3:00pm edererr

BOX CULVERT NOMINAL DIMENSIONS		HEADWALL AND CUTOFF WALL DIMENSION & GRADE 60 REINFORCING BAR SCHEDULE (BAR SIZE AND NUMBER OF BARS REQUIRED) 0 DEGREE SKEW													HEADWALL AND CUTOFF WALL DIMENSION & GRADE 60 REINFORCING BAR SCHEDULE (BAR SIZE AND NUMBER OF BARS REQUIRED) 15 DEGREE SKEW												
			"mm"		"nn"		"pp"		"qq"		"rr"		"ss"			"mm"		"nn"		"pp"		"qq"		"rr"		"ss"	
SPAN "S" INSIDE	HEIGHT "H" INSIDE	WIDTH HEAD WALL "HW"	SIZE	NUMBER OF BARS	SIZE	NUMBER OF BARS	SIZE	NUMBER OF BARS	SIZE	NUMBER OF BARS	SIZE	NUMBER OF BARS	SIZE	NUMBER OF BARS	WIDTH HEAD WALL "HW"	SIZE	NUMBER OF BARS	SIZE	NUMBER OF BARS	SIZE	NUMBER OF BARS	SIZE	NUMBER OF BARS	SIZE	NUMBER OF BARS	SIZE	NUMBER OF BARS
4'	2'	12"	#7	2	#7	2	#7	2	#4	2	#7	2	#7	2	12"	#7	2	#7	2	#7	2	#4	2	#7	2	#7	2
4'	3'	12"	#7	2	#7	2	#7	2	#4	2	#7	2	#7	2	12"	#7	2	#7	2	#7	2	#4	2	#7	2	#7	2
4'	4'	12"	#7	2	#7	2	#7	2	#4	2	#7	2	#7	2	12"	#7	2	#7	2	#7	2	#4	2	#7	2	#7	2
6'	2'	12"	#7	2	#7	2	#7	2	#4	2	#7	2	#7	2	12"	#7	2	#7	2	#7	2	#4	2	#7	2	#7	2
6'	3'	12"	#7	2	#7	2	#7	2	#4	2	#7	2	#7	2	12"	#7	2	#7	2	#7	2	#4	2	#7	2	#7	2
6'	4'	12"	#7	2	#7	2	#7	2	#4	2	#7	2	#7	2	12"	#7	2	#7	2	#7	2	#4	2	#7	2	#7	2
6'	5'	12"	#7	2	#7	2	#7	2	#4	2	#7	2	#7	2	12"	#7	2	#7	2	#7	2	#4	2	#7	2	#7	2
6'	6'	12"	#7	2	#7	2	#7	2	#4	2	#7	2	#7	2	12"	#7	2	#7	2	#7	2	#4	2	#7	2	#7	2
6'	7'	12"	#7	2	#7	2	#7	2	#4	2	#7	2	#7	2	12"	#7	2	#7	2	#7	2	#4	2	#7	2	#7	2
8'	4'	12"	#7	2	#7	2	#7	2	#4	2	#7	2	#7	2	12"	#9	2	#9	2	#7	2	#4	2	#8	2	#8	2
8'	5'	12"	#7	2	#7	2	#7	2	#4	2	#7	2	#7	2	12"	#9	2	#9	2	#7	2	#4	2	#8	2	#8	2
8'	6'	12"	#7	2	#7	2	#7	2	#4	2	#7	2	#7	2	12"	#9	2	#9	2	#7	2	#4	2	#8	2	#8	2
8'	7'	12"	#7	2	#7	2	#7	2	#4	2	#7	2	#7	2	12"	#9	2	#9	2	#7	2	#4	2	#8	2	#8	2
8'	8'	12"	#7	2	#7	2	#7	2	#4	2	#7	2	#7	2	12"	#9	2	#9	2	#7	2	#4	2	#8	2	#8	2
10'	3'	12"	#7	2	#7	2	#7	2	#4	2	#7	2	#7	2	12"	#10	2	#10	2	#8	2	#5	2	#10	2	#9	2
10'	4'	12"	#7	2	#7	2	#7	2	#4	2	#7	2	#7	2	12"	#10	2	#10	2	#8	2	#5	2	#10	2	#9	2
10'	5'	12"	#7	2	#7	2	#7	2	#4	2	#7	2	#7	2	12"	#10	2	#10	2	#8	2	#5	2	#10	2	#9	2
10'	6'	12"	#7	2	#7	2	#7	2	#4	2	#7	2	#7	2	12"	#10	2	#10	2	#8	2	#5	2	#10	2	#9	2
10'	7'	12"	#7	2	#7	2	#7	2	#4	2	#7	2	#7	2	12"	#10	2	#10	2	#8	2	#5	2	#10	2	#9	2
10'	8'	12"	#7	2	#7	2	#7	2	#4	2	#7	2	#7	2	12"	#10	2	#10	2	#8	2	#5	2	#10	2	#9	2
10'	9'	12"	#7	2	#7	2	#7	2	#4	2	#7	2	#7	2	12"	#10	2	#10	2	#8	2	#5	2	#10	2	#9	2
10'	10'	12"	#7	2	#7	2	#7	2	#4	2	#7	2	#7	2	12"	#10	2	#10	2	#8	2	#5	2	#10	2	#9	2
10'	11'	12"	#7	2	#7	2	#7	2	#4	2	#7	2	#7	2	12"	#10	2	#10	2	#8	2	#5	2	#10	2	#9	2
10'	12'	12"	#7	2	#7	2	#7	2	#4	2	#7	2	#7	2	12"	#10	2	#10	2	#8	2	#5	2	#10	2	#9	2
12'	6'	12"	#7	2	#7	2	#7	2	#4	2	#7	2	#7	2	14"	#11	3	#10	3	#11	2	#6	2	#11	3	#10	3
12'	7'	12"	#7	2	#7	2	#7	2	#4	2	#7	2	#7	2	14"	#11	3	#10	3	#11	2	#6	2	#11	3	#10	3
12'	8'	12"	#7	2	#7	2	#7	2	#4	2	#7	2	#7	2	14"	#11	3	#10	3	#11	2	#6	2	#11	3	#10	3
12'	9'	12"	#7	2	#7	2	#7	2	#4	2	#7	2	#7	2	14"	#11	3	#10	3	#11	2	#6	2	#11	3	#10	3
* 12'	10'	12"	#7	2	#7	2	#7	2	#4	2	#7	2	#7	2	14"	#11	3	#10	3	#11	2	#6	2	#11	3	#10	3
12'	12'	12"	#7	2	#7	2	#7	2	#4	2	#7	2	#7	2	14"	#11	3	#10	3	#11	2	#6	2	#11	3	#10	3
14'	8'	12"	#7	2	#7	2	#7	2	#4	2	#7	2	#7	2	24"	#11	4	#11	4	#10	3	#8	3	#11	4	#10	4
14'	9'	12"	#7	2	#7	2	#7	2	#4	2	#7	2	#7	2	24"	#11	4	#11	4	#10	3	#8	3	#11	4	#10	4
14'	10'	12"	#7	2	#7	2	#7	2	#4	2	#7	2	#7	2	24"	#11	4	#11	4	#10	3	#8	3	#11	4	#10	4
14'	11'	12"	#7	2	#7	2	#7	2	#4	2	#7	2	#7	2	24"	#11	4	#11	4	#10	3	#8	3	#11	4	#10	4
14'	12'	12"	#7	2	#7	2	#7	2	#4	2	#7	2	#7	2	24"	#11	4	#11	4	#10	3	#8	3	#11	4	#10	4
14'	13'	12"	#7	2	#7	2	#7	2	#4	2	#7	2	#7	2	24"	#11	4	#11	4	#10	3	#8	3	#11	4	#10	4
14'	14'	12"	#7	2	#7	2	#7	2	#4	2	#7	2	#7	2	24"	#11	4	#11	4	#10	3	#8	3	#11	4	#10	4

BOX CULVERT NOMINAL DIMENSIONS		HEADWALL AND CUTOFF WALL DIMENSION & GRADE 60 REINFORCING BAR SCHEDULE (BAR SIZE AND NUMBER OF BARS REQUIRED) 30 DEGREE SKEW													HEADWALL AND CUTOFF WALL DIMENSION & GRADE 60 REINFORCING BAR SCHEDULE (BAR SIZE AND NUMBER OF BARS REQUIRED) 45 DEGREE SKEW												
			"mm"		"nn"		"pp"		"qq"		"rr"		"ss"			"mm"		"nn"		"pp"		"qq"		"rr"		"ss"	
SPAN "S" INSIDE	HEIGHT "H" INSIDE	WIDTH HEAD WALL "HW"	SIZE	NUMBER OF BARS	SIZE	NUMBER OF BARS	SIZE	NUMBER OF BARS	SIZE	NUMBER OF BARS	SIZE	NUMBER OF BARS	SIZE	NUMBER OF BARS	WIDTH HEAD WALL "HW"	SIZE	NUMBER OF BARS	SIZE	NUMBER OF BARS	SIZE	NUMBER OF BARS	SIZE	NUMBER OF BARS	SIZE	NUMBER OF BARS	SIZE	NUMBER OF BARS
4'	2'	12"	#7	2	#7	2	#7	2	#4	2	#7	2	#7	2	12"	#7	2	#7	2	#7	2	#4	2	#7	2	#7	2
4'	3'	12"	#7	2	#7	2	#7	2	#4	2	#7	2	#7	2	12"	#7	2	#7	2	#7	2	#4	2	#7	2	#7	2
4'	4'	12"	#7	2	#7	2	#7	2	#4	2	#7	2	#7	2	12"	#7	2	#7	2	#7	2	#4	2	#7	2	#7	2
6'	2'	12"	#8	2	#8	2	#7	2	#4	2	#8	2	#7	2	12"	#10	2	#10	2	#7	2	#4	2	#9	2	#8	2
6'	3'	12"	#8	2	#8	2	#7	2	#4	2	#8	2	#7	2	12"	#10	2	#10	2	#7	2	#4	2	#9	2	#8	2
6'	4'	12"	#8	2	#8	2	#7	2	#4	2	#8	2	#7	2	12"	#10	2	#10	2	#7	2	#4	2	#9	2	#8	2
6'	5'	12"	#8	2	#8	2	#7	2	#4	2	#8	2	#7	2	12"	#10	2	#10	2	#7	2	#4	2	#9	2	#8	2
6'	6'	12"	#8	2	#8	2	#7	2	#4	2	#8	2	#7	2	12"	#10	2	#10	2	#7	2	#4	2	#9	2	#8	2
6'	7'	12"	#8	2	#8	2	#7	2	#4	2	#8	2	#7	2	12"	#10	2	#10	2	#7	2	#4	2	#9	2	#8	2
8'	4'	12"	#10	2	#10	2	#7	2	#4	2	#10	2	#9	2	14"	#11	3	#11	3	#9	2	#5	2	#11	3	#11	3
8'	5'	12"	#10	2	#10	2	#7	2	#4	2	#10	2	#9	2	14"	#11	3	#11	3	#9	2	#5	2	#11	3	#11	3
8'	6'	12"	#10	2	#10	2	#7	2	#4	2	#10	2	#9	2	14"	#11	3	#11	3	#9	2	#5	2	#11	3	#11	3
8'	7'	12"	#10	2	#10	2	#7	2	#4	2	#10	2	#9	2	14"	#11	3	#11	3	#9	2	#5	2	#11	3	#11	3
8'	8'	12"	#10	2	#10	2	#7	2	#4	2	#10	2	#9	2	14"	#11	3	#11	3	#9	2	#5	2	#11	3	#11	3
10'	3'	14"	#11	3	#11	3	#9	2	#6	2	#11	3	#11	3	24"	#11	3	#11	3	#11	2	#5	2	#11	3	#11	3
10'	4'	14"	#11	3	#11	3	#9	2	#6	2	#11	3	#11	3	24"	#11	3	#11	3	#11	2	#6	2	#11	3	#11	3
10'	5'	14"	#11	3	#11	3	#9	2	#6	2	#11	3	#11	3	24"	#11	3	#11	3	#11	2	#6	2	#11	3	#11	3
10'	6'	14"	#11	3	#11	3	#9	2	#6	2	#11	3	#11	3	24"	#11	3	#11	3	#11	2	#6	2	#11	3	#11	3
10'	7'	14"	#11	3	#11	3	#9	2	#6	2	#11	3	#11	3	24"	#11	3	#11	3	#11	2	#6	2	#11	3	#11	3
10'	8'	14"	#11	3	#11	3	#9	2	#6	2	#11	3	#11	3	24"	#11	3	#11	3	#11	2	#6	2	#11	3	#11	3
10'	9'	14"	#11	3	#11	3	#9	2	#6	2	#11	3	#11	3	24"	#11	3	#11	3	#11	2	#6	2	#11	3	#11	3
10'	10'	14"	#11	3	#11	3	#9	2	#6	2	#11	3	#11	3	24"	#11	3	#11	3	#11	2	#6	2	#11	3	#11	3
10'	11'	14"	#11	3	#11	3	#9	2	#6	2	#11	3	#11	3	24"	#11	3	#11	3	#11	2	#6	2	#11	3	#11	3
10'	12'	14"	#11	3	#11	3	#9	2	#6	2	#11	3	#11	3	24"	#11	3	#11	3	#11	2	#6	2	#11	3	#11	3
12'	6'	24"	#11	3	#11	3	#11	2	#6	2	#11	3	#9	3	48"	#11	12	#11	12	#8	11	#5	11	#11	12	#11	12
12'	7'	24"	#11	3	#11	3	#11	2	#6	2	#11	3	#9	3	48"	#11	12	#11	12	#8	11	#5	11	#11	12	#11	12
12'	8'	24"	#11	3	#11	3	#11	2	#6	2	#11	3	#9	3	48"	#11	12	#11	12	#8	11	#5	11	#11	12	#11	12
12'	9'	24"	#11	3	#11	3	#11	2	#6	2	#11	3	#9	3	48"	#11	12	#11	12	#8	11	#5	11	#11	12	#11	12
* 12'	10'	24"	#11	3	#11	3	#11	2	#6	2	#11	3	#9	3	48"	#11	12	#11	12	#8	11	#5	11	#11	12	#11	12
12'	12'	24"	#11	3	#11	3	#11	2	#6	2	#11	3	#9	3	48"	#11	12	#11	12	#8	11	#5	11	#11	12	#11	12
14'	8'	36"	#11	9	#11	9	#9	8	#6	8	#11	9	#11	9	48"	#11	12	#11	12	#8	11	#5	11	#11	12	#11	12
14'	9'	36"	#11	9	#11	9	#9	8	#6	8	#11	9	#11	9	48"	#11	12	#11	12	#8	11	#5	11	#11	12	#11	12
14'	10'	36"	#11	9	#11	9	#9	8	#6	8	#11	9	#11	9	48"	#11	12	#11	12	#8	11	#5	11	#11	12	#11	12
14'	11'	36"	#11	9	#11	9	#9	8	#6	8	#11	9	#11	9	48"	#11	12	#11	12	#8	11	#5	11	#11	12	#11	12
14'	12'	36"	#11	9	#11	9	#9	8	#6	8	#11	9	#11	9	48"	#11	12	#11	12	#8	11	#5	11	#11	12	#11	12
14'	13'	36"	#11	9	#11	9	#9	8	#6	8	#11	9	#11	9	48"	#11	12	#11	12	#8	11	#5	11	#11	12	#11	12
14'	14'	36"	#11	9	#11	9	#9	8	#6	8	#11	9	#11	9	48"	#11	12	#11	12	#8	11	#5	11	#11	12	#11	12

* EXAMPLE OF USE OF THIS TABLE:
PROPOSED STRUCTURE – DOUBLE BARREL, 12 FT. SPAN/10 FT. HEIGHT, CBC WITH 30° SKEW.
USE THE FOLLOWING BUILD INFORMATION FROM THE TABLE ABOVE:

BOX CULVERT NOMINAL DIMENSIONS		HEADWALL AND CUTOFF WALL DIMENSION GRADE 60 REINFORCING BAR SCHEDULE (BAR SIZE AND NUMBER OF BARS REQUIRED) 30 DEGREE SKEW												
			"mm"		"nn"		"pp"		"qq"		"rr"		"ss"	
SPAN "S" INSIDE	HEIGHT "H" INSIDE	WIDTH HEAD WALL "HW"	SIZE	NUMBER OF BARS	SIZE	NUMBER OF BARS	SIZE	NUMBER OF BARS	SIZE	NUMBER OF BARS	SIZE	NUMBER OF BARS	SIZE	NUMBER OF BARS
12'	10'	24"	#11	3	#11	3	#11	2	#6	2	#11	3	#9	3

LENGTH OF BARS: THE LENGTH OF "mm", "nn", "rr", "ss", & #5HW5 SHALL BE DETERMINED BY:

LENGTH = [[[("WO"*2)+("S"*N)+["WI"*(N–1)]]/COS(SKEW ANGLE)] –4"
(ROUND DOWN TO NEAREST ½")

THESE BARS SHALL BE FURNISHED IN FULL LENGTHS CALCULATED OR BE MECHANICALLY COUPLED BY DEVICES LISTED ON THE NMDOT APPROVED PRODUCTS LIST.

N = NUMBER OF BARRELS (1, 2, 3, OR 4)

"qq" BAR LENGTH = "H" + 59"

"pp" BAR = ["H"+(5'–4" MIN. OR ("TT"+"TB"+8") IF LARGER)]–10"+ 2*STANDARD HOOK LENGTH

FOR EXTENSIONS OF EXISTING CBC'S OF S=5', S=7', AND S=9' SIZE SPANS NOT INCLUDED IN THIS TABLE, USE DIMENSIONS, BAR SIZES, AND NUMBER OF BARS FOR NEXT GREATER SPAN TO BUILD. FOR EXAMPLE, FOR S=5' USE DIMENSIONS AND BAR DETAILS FROM THE TABLE FOR S=6'. USE S=5' IN FORMULAS TO DETERMINE LENGTH OF BARS "mm", "nn", "ss", "rr", AND #5HW5. ANY OTHER SIZE OF BOX EXTENSIONS NOT COVERED BY THIS MODIFICATION SHALL BE DONE THROUGH SPECIAL DESIGNS INCLUDED IN THE PROJECT PLANS.

NOTE:
THIS TABLE IS FOR USE WITH ONE TO FOUR BARRELS. FOR FIVE OR MORE BARRELS USE COMBINATIONS OF ONE TO FOUR BARRELS REPEATING THIS DESIGN.

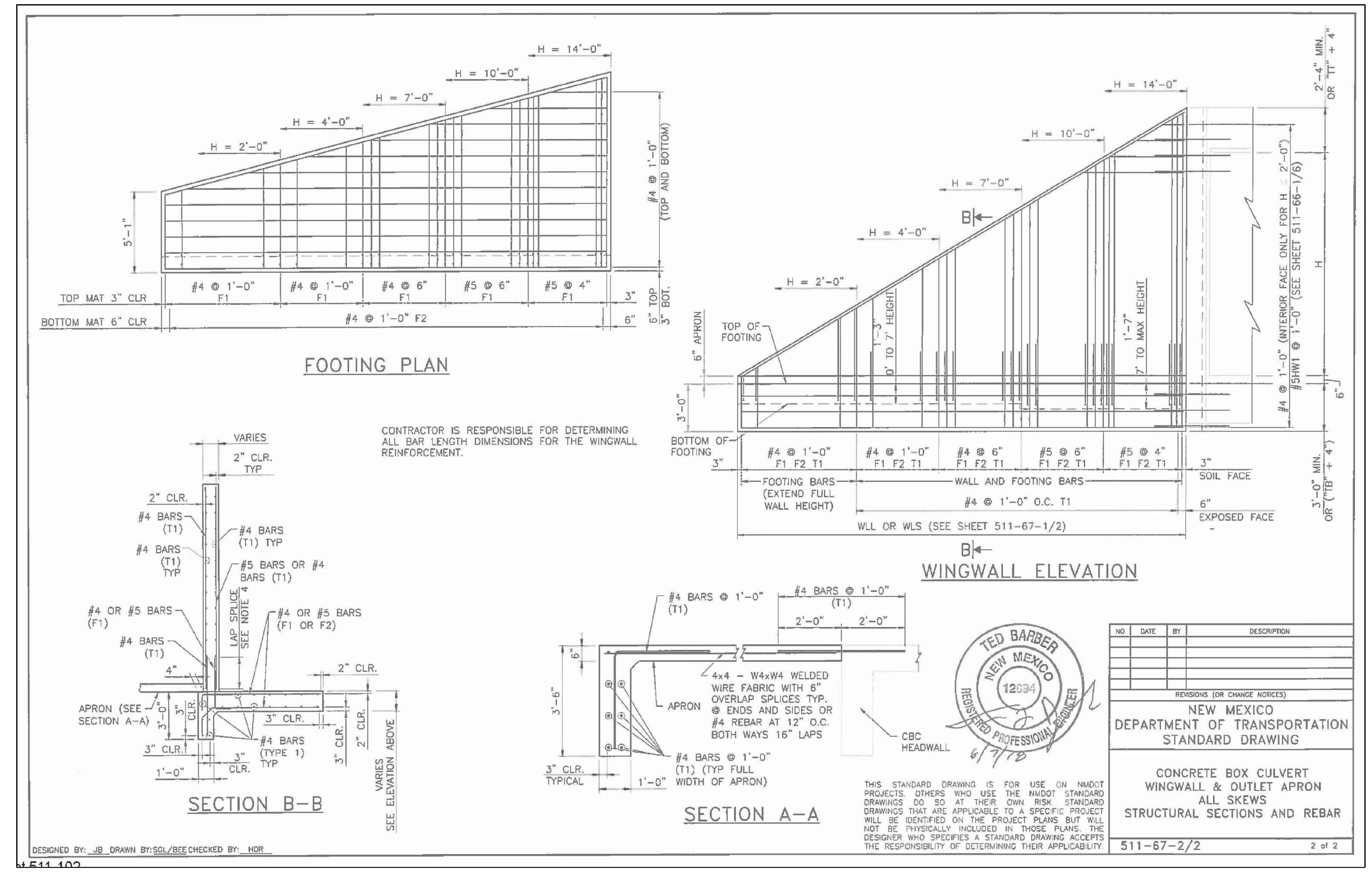
NO.	DATE	REV. BY	DESCRIPTION
REVISIONS (OR CHANGE NOTICES)			

NEW MEXICO
DEPARTMENT OF TRANSPORTATION
STANDARD DRAWING

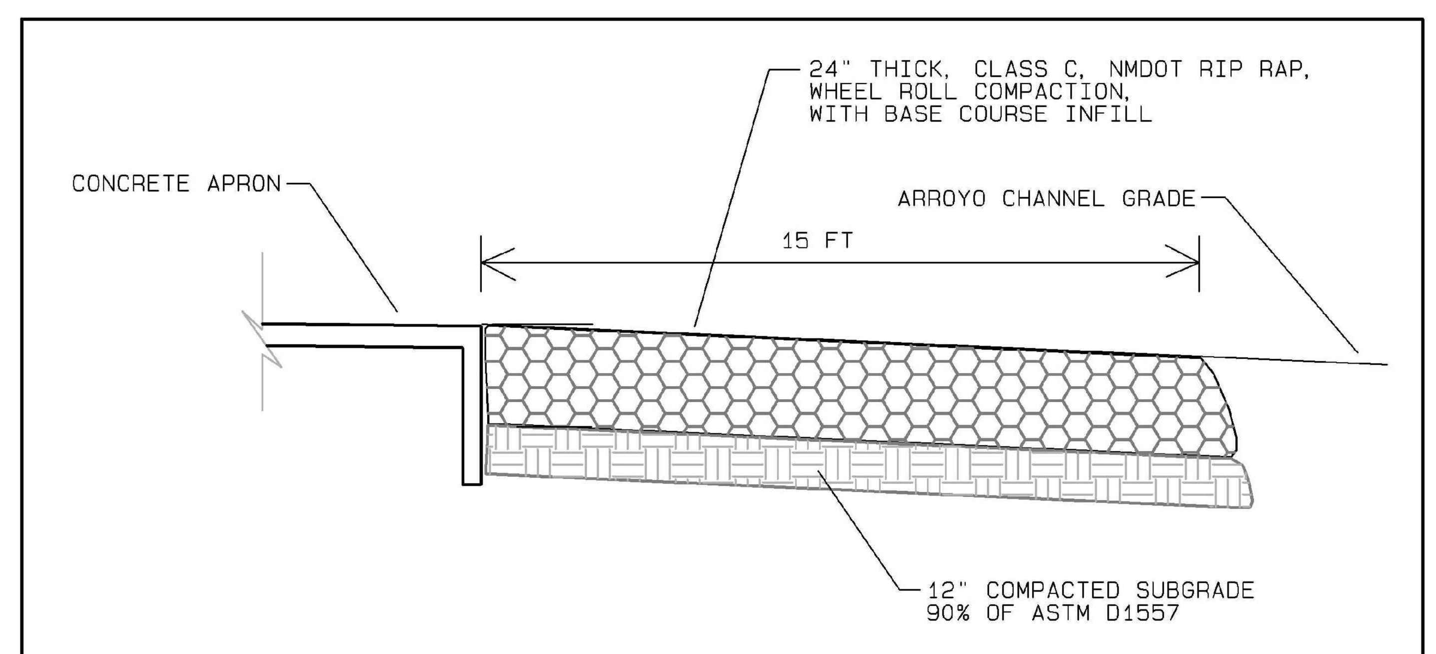
CONCRETE BOX CULVERT HEADWALL
ALL DESIGN FILLS–0° 15° 30° 45°
SKEWS DIMS AND REBAR SCHEDULE

APPROVED DESIGN ENGINEER APR 9, 07 DATE
DESIGNED BY TLB DRAWN BY SGL CHECKED BY HDR
511–66–2/6 2 OF 6

CBC SHEET 136



CBC SHEET 141



RIPRAP APRON DOWNSTREAM OF BOX CULVERTS
N.T.S.

NOTE: TOP OF PARAPET WALL AND TOP OF WING WALL MAY BE TALLER THAN THE STANDARD DETAIL SHOWS. REFER TO GRADING PLAN FOR TOP-OF-WALL ELEVATIONS. VERTICAL WALL EXTENSIONS WILL HAVE THE SAME REBAR PATTERN AS THE WALL BELOW.

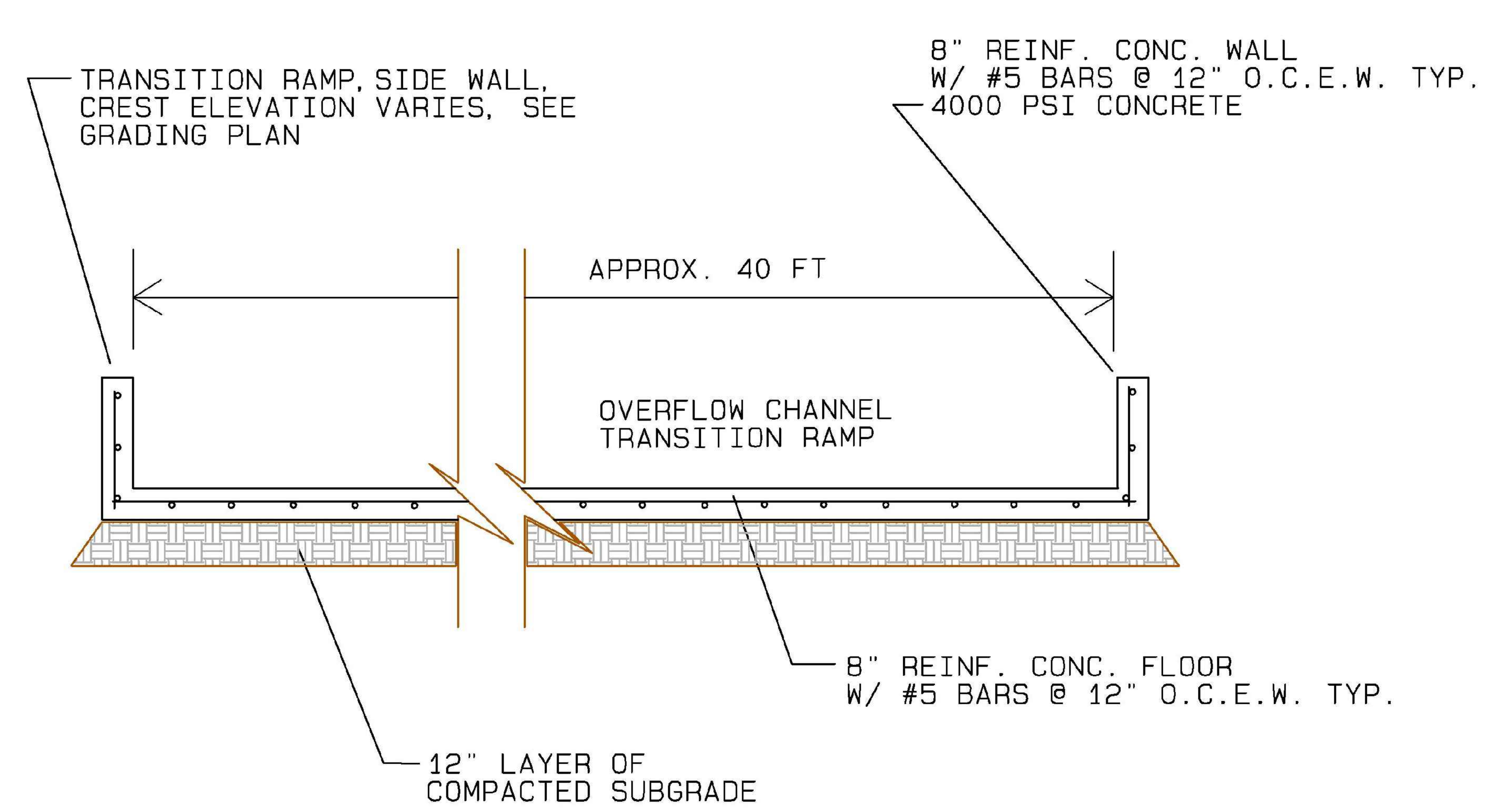
NO.	DATE	APPR.	REVISION	NO.	DATE	APPR.	REVISION

VILLAGE OF MADRID
STORM WATER DAMAGE REDUCTION PROJECT
MADRID NEW MEXICO
RIVERBEND ENGINEERING, LLC
ALBUQUERQUE NEW MEXICO

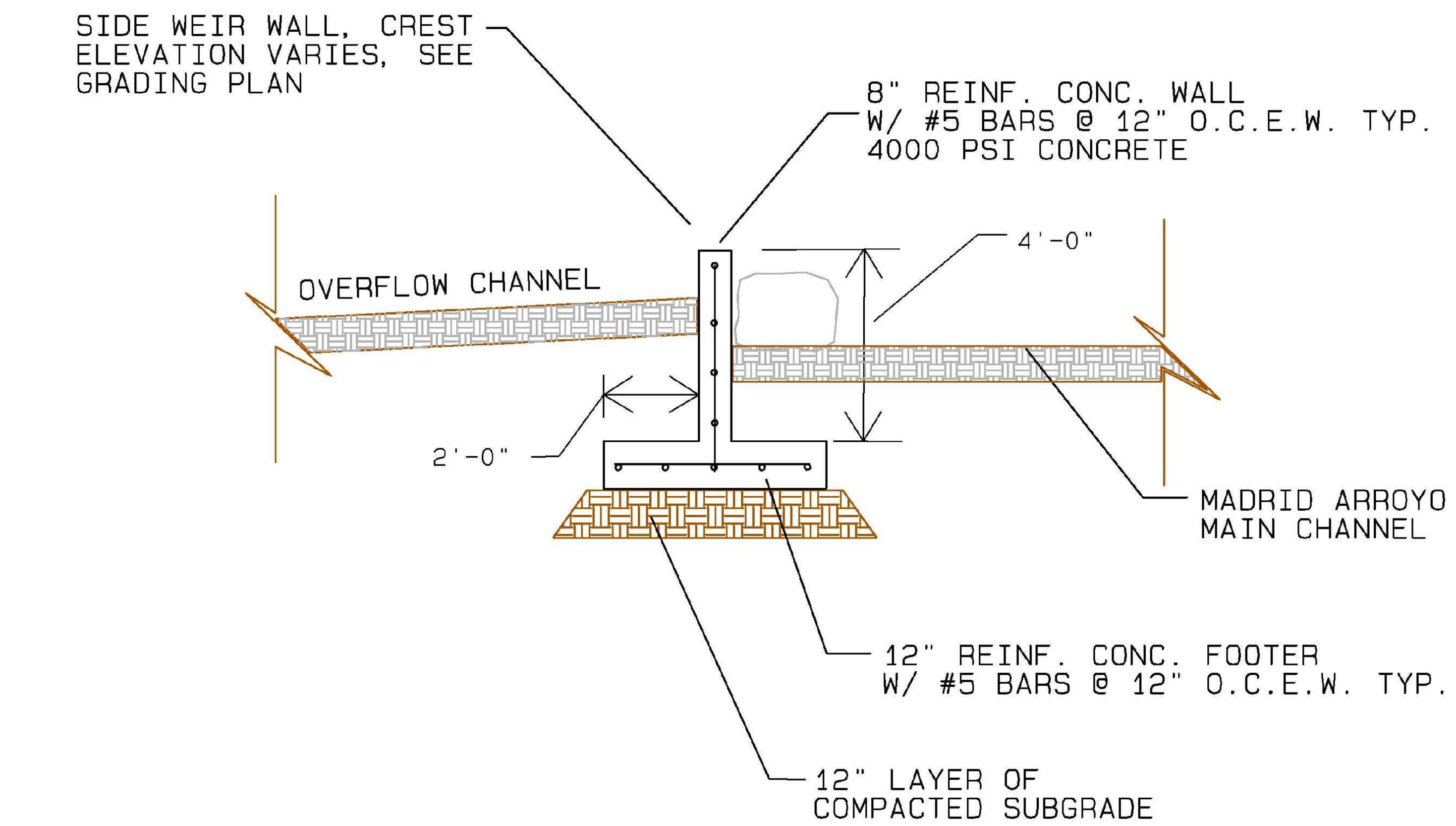
		DATE	CLIENT APPROVALS	DATE
CHECKED	CP	--		
DES. ENG.	CP	--		
PROJ. ENG.	CP	--		
PROJ. MGR.	RGE	--		
APPROVED	--	--		
APPROVED	--	--		

MADRID ARROYO
CONCRETE BOX CULVERT DETAILS
--

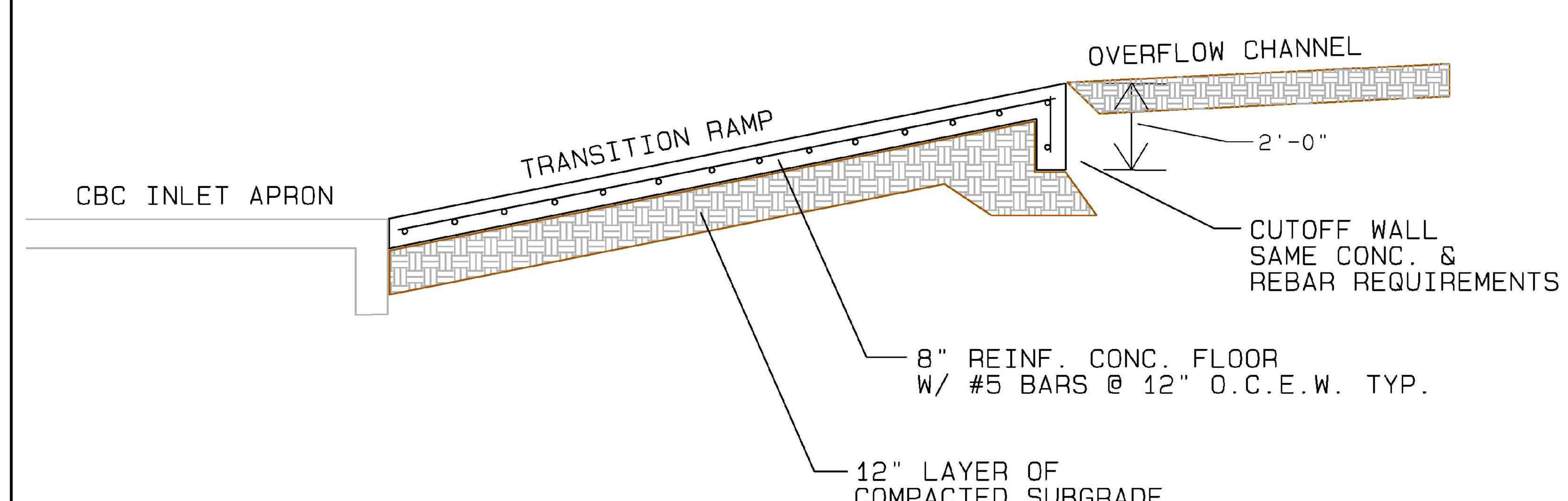
DRAWN	DATE	DWG. NO.	REV. NO.
C. PHILLIPS	23	C-210	A
SCALE	W.O. NO.	SHT -- OF --	
1:1	--		



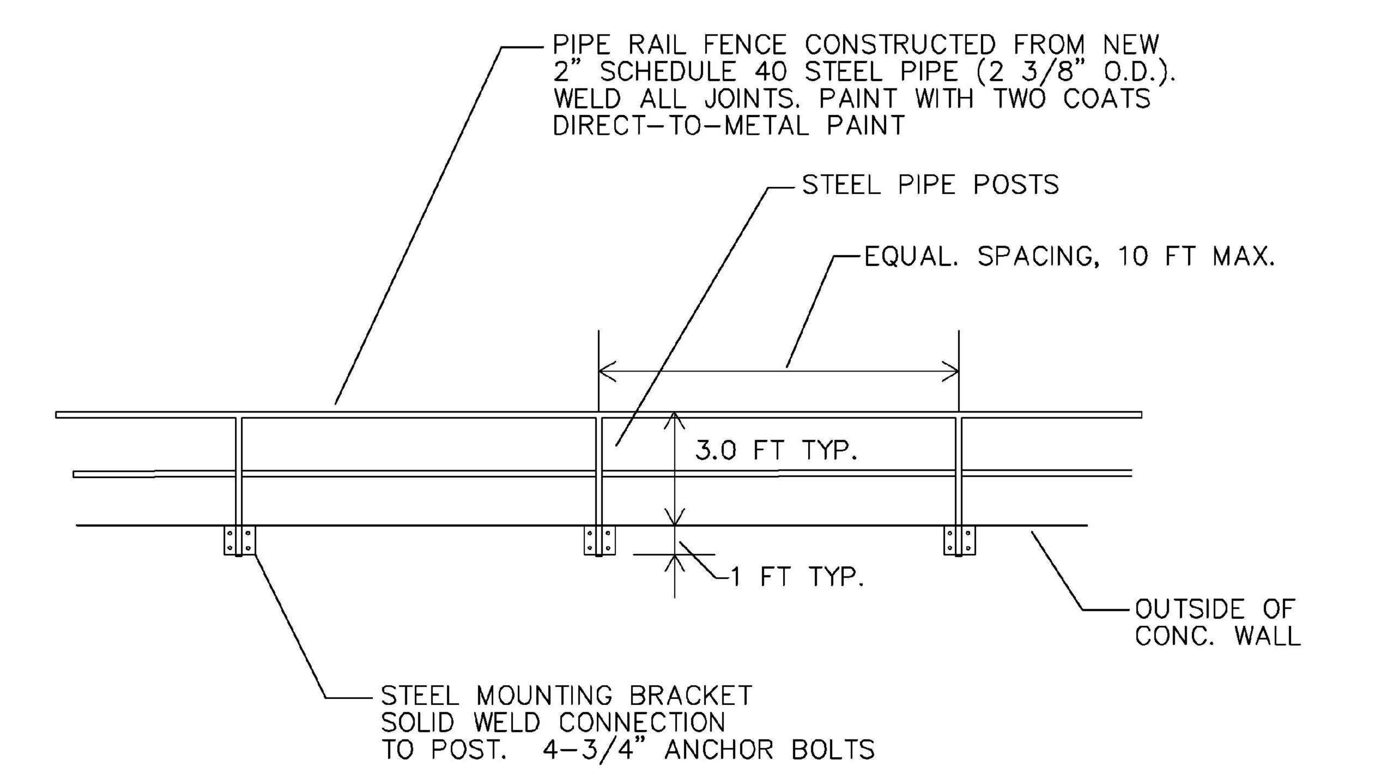
TRANSITION RAMP
TYPICAL SECTION



SIDE WEIR WALL
TYPICAL SECTION



TRANSITION RAMP PROFILE



PIPE RAILING, TYPICAL DETAIL

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

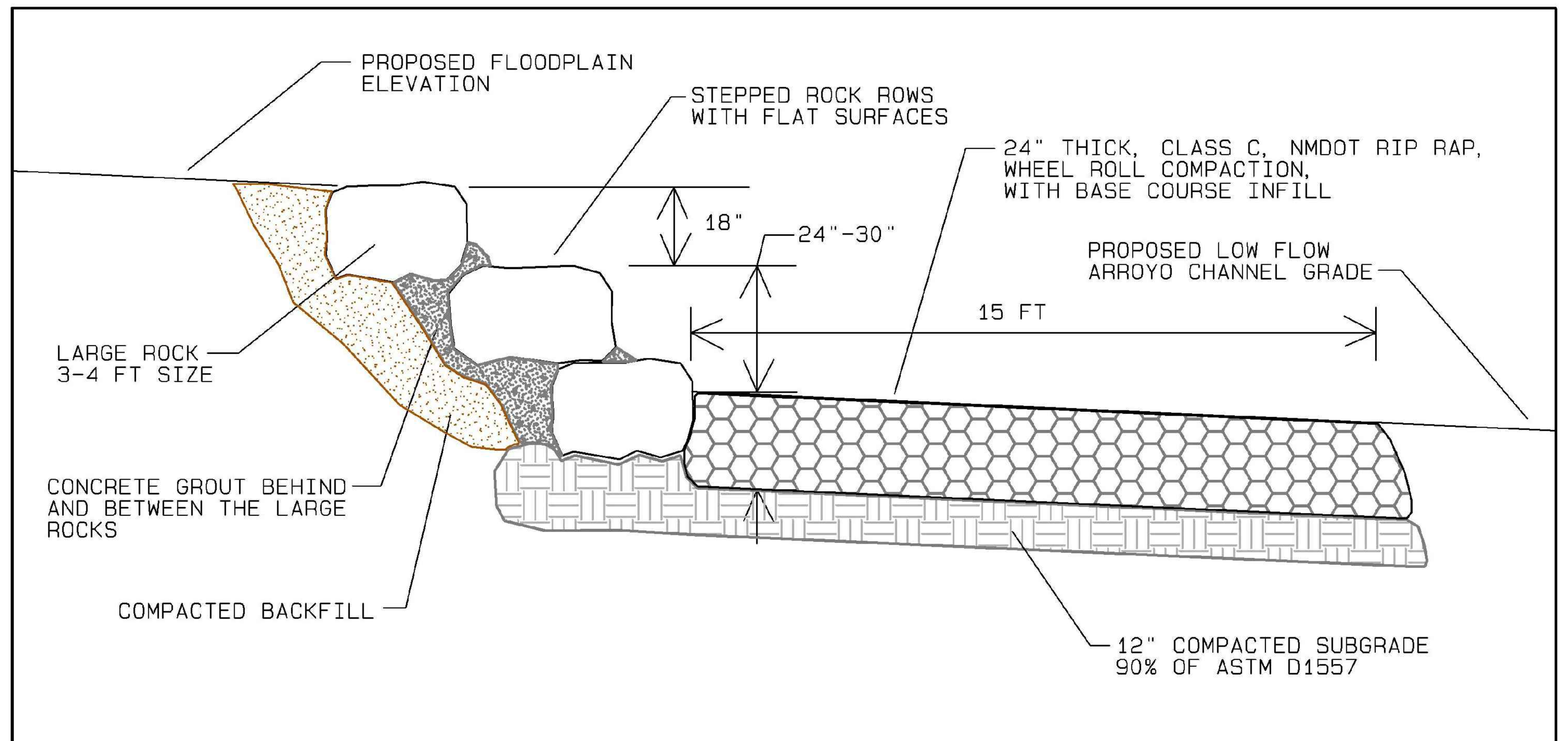
VILLAGE OF MADRID
STORM WATER DAMAGE REDUCTION PROJECT
MADRID NEW MEXICO

RIVERBEND ENGINEERING, LLC
ALBUQUERQUE NEW MEXICO

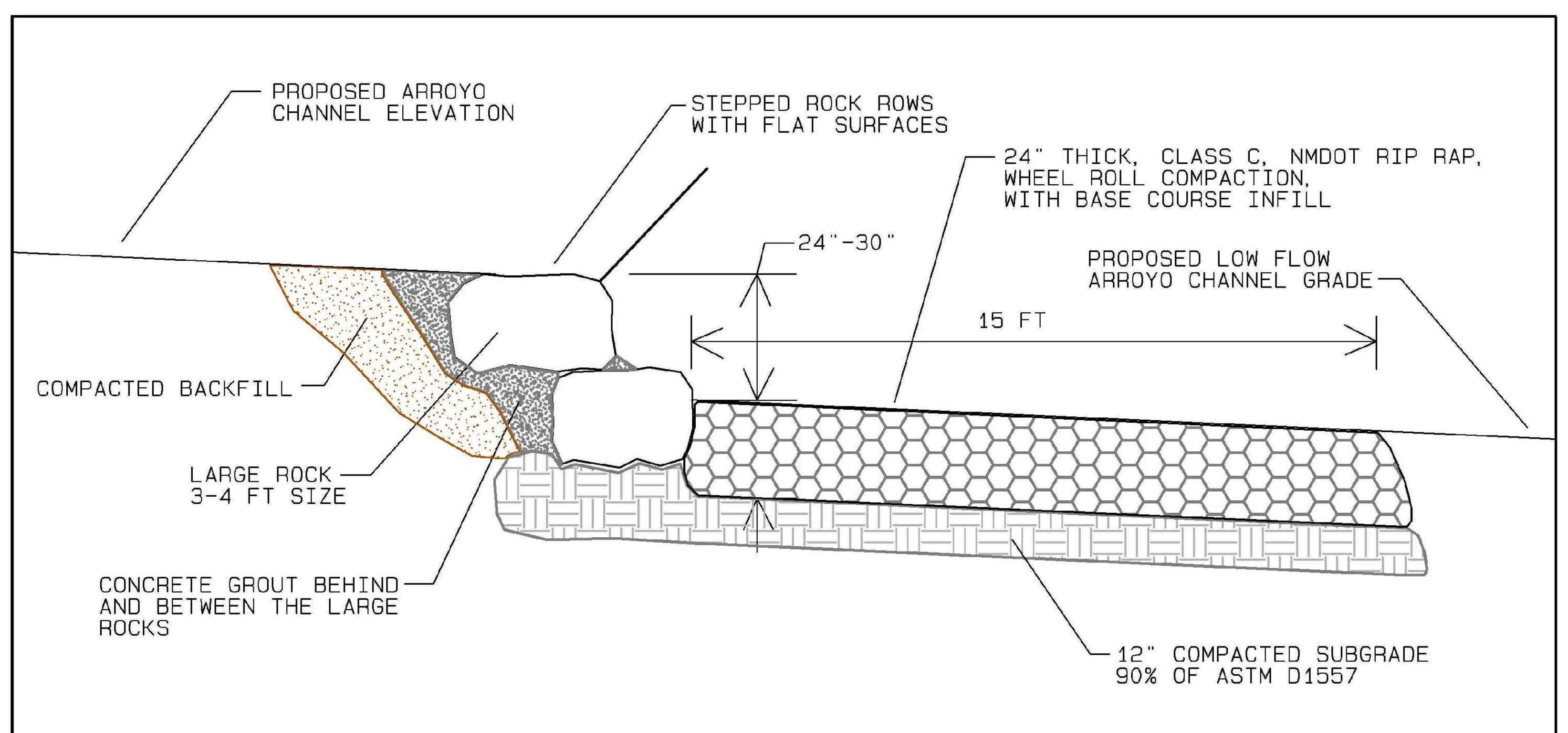
		DATE	CLIENT APPROVALS	DATE
CHECKED	CP	--		
DES. ENG.	CP	--		
PROJ. ENG.	CP	--		
PROJ. MGR.	RGE	--		
APPROVED	--	--		
APPROVED	--	--		

MADRID ARROYO
CONCRETE STRUCTURE DETAILS
--

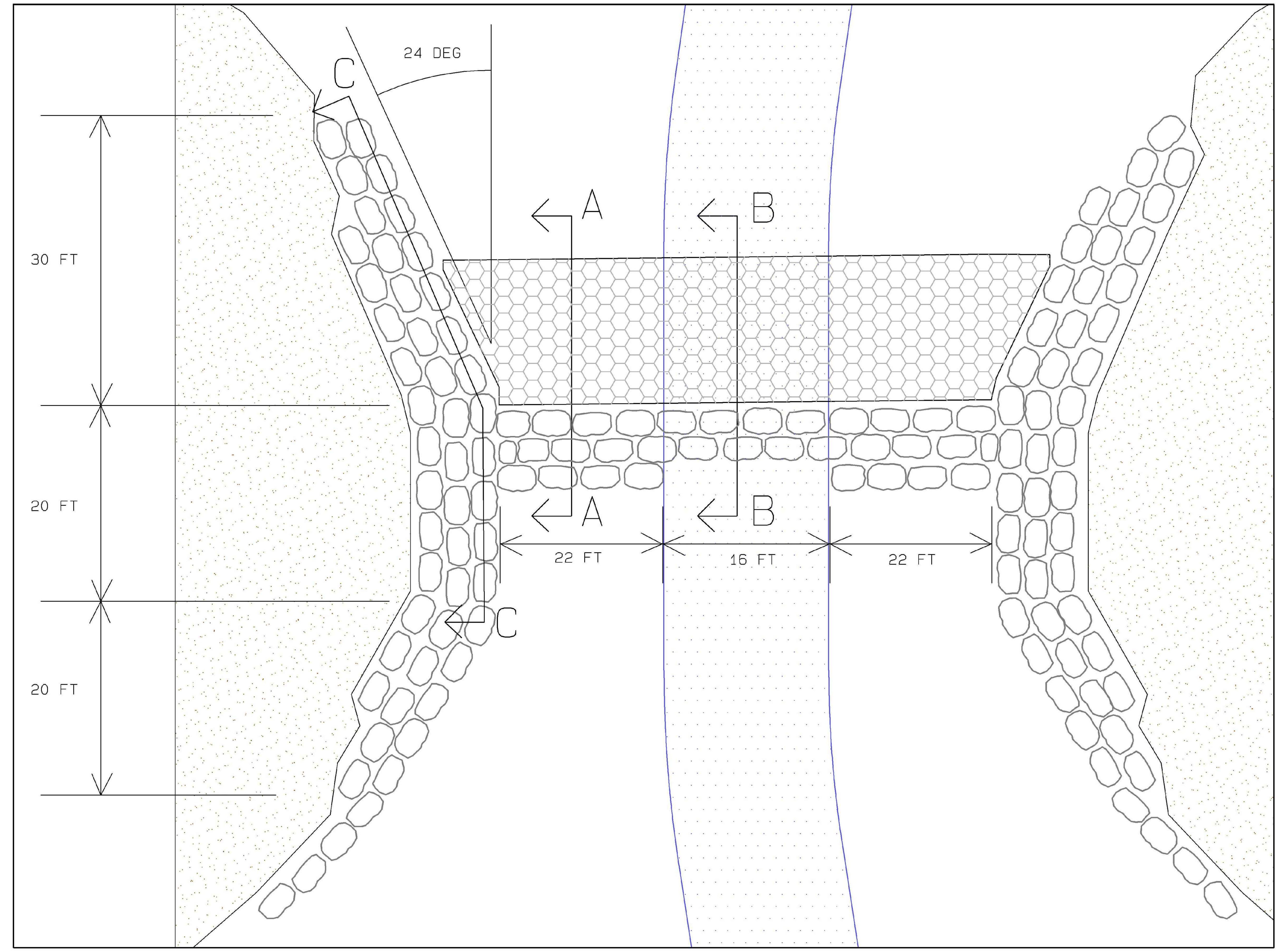
DRAWN	DATE	DWG. NO.	REV. NO.
C. PHILLIPS	23	C-211	A
SCALE 1:1	W.O. NO. --	SHT -- OF --	



GRADE CONTROL STRUCTURE, SECTION A–A
TYPICAL SECTION AT FLOODPLAIN EDGE
N.T.S.



GRADE CONTROL STRUCTURE, SECTION B–B
TYPICAL SECTION AT ARROYO CHANNEL
N.T.S.



GRADE CONTROL STRUCTURE, PLAN VIEW

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

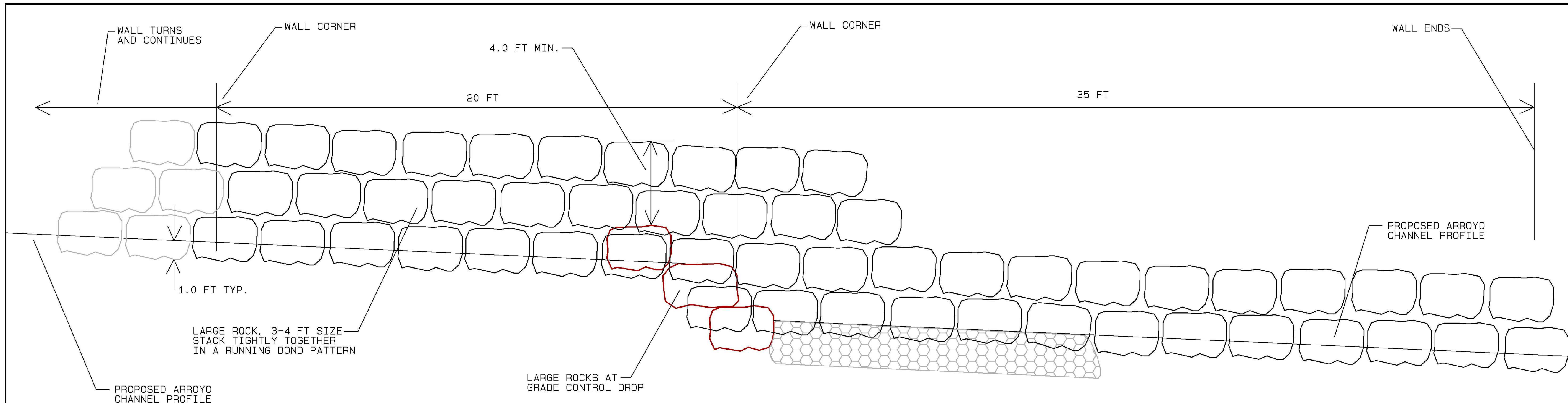
VILLAGE OF MADRID
STORM WATER DAMAGE REDUCTION PROJECT
MADRID NEW MEXICO

RIVERBEND ENGINEERING, LLC
ALBUQUERQUE NEW MEXICO

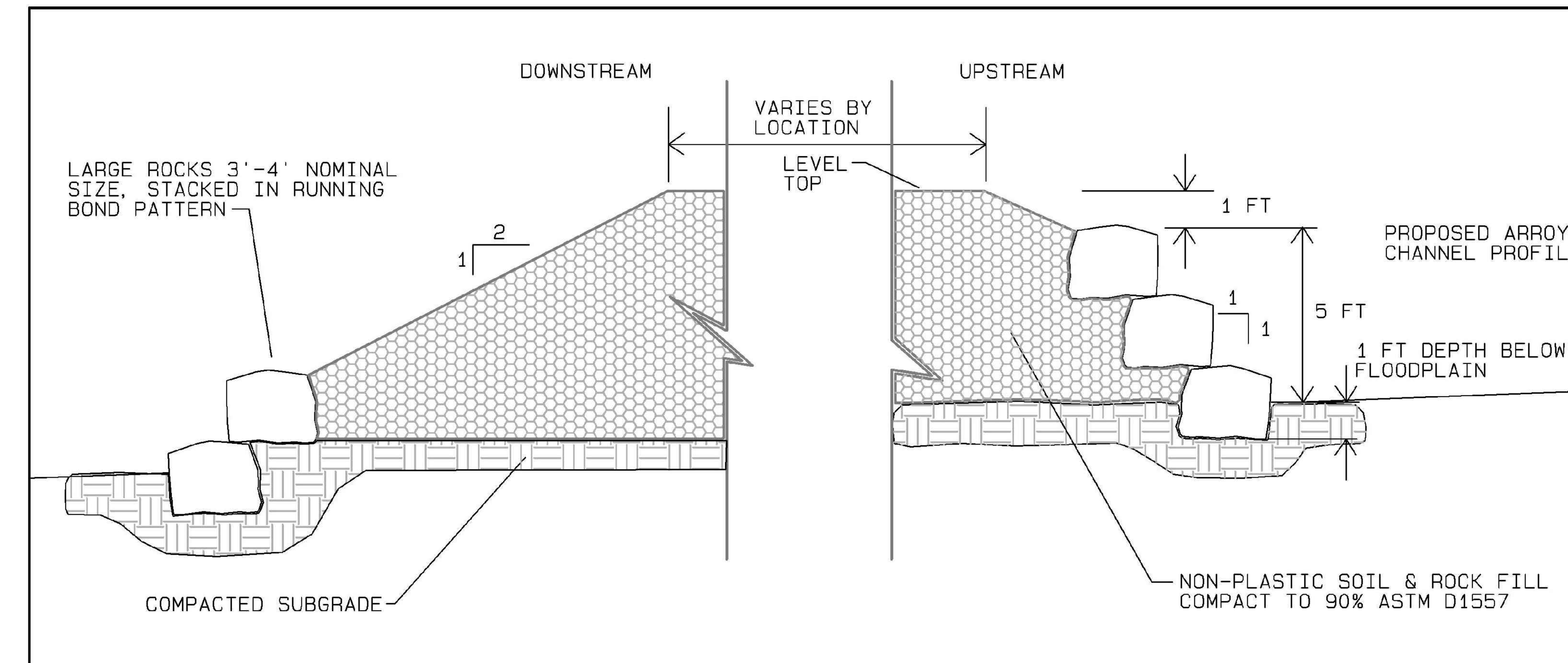
		DATE	CLIENT APPROVALS	DATE
CHECKED	CP	--		
DES. ENG.	CP	--		
PROJ. ENG.	CP	--		
PROJ. MGR.	RGE	--		
APPROVED	--	--		
APPROVED	--	--		

MADRID ARROYO
GRADE CONTROL STRUCTURE DETAILS
--

DRAWN	DATE	DWG. NO.	REV. NO.
C. PHILLIPS	23	C-212	A
SCALE: 1:1	W.O. NO.: --	SHT. -- OF --	



GRADE CONTROL STRUCTURE, SECTION C–C
ROCK WALL PROFILE
N.T.S.



SOIL AND ROCK DEFLECTOR
TYPICAL SECTION
NTS

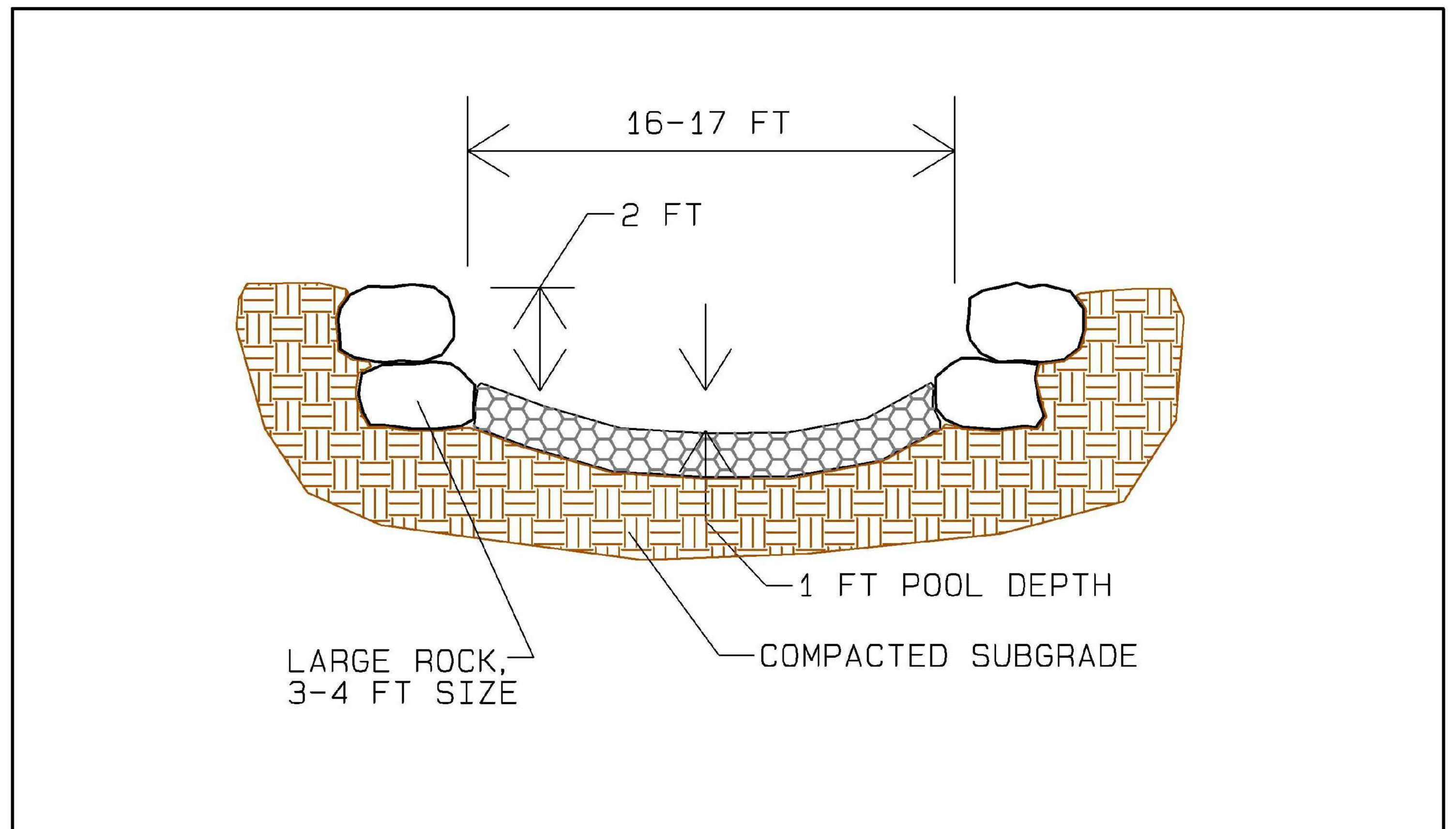
NO.	DATE	APPR.	REVISION	NO.	DATE	APPR.	REVISION

VILLAGE OF MADRID
STORM WATER DAMAGE REDUCTION PROJECT
MADRID NEW MEXICO
RIVERBEND ENGINEERING, LLC
ALBUQUERQUE NEW MEXICO

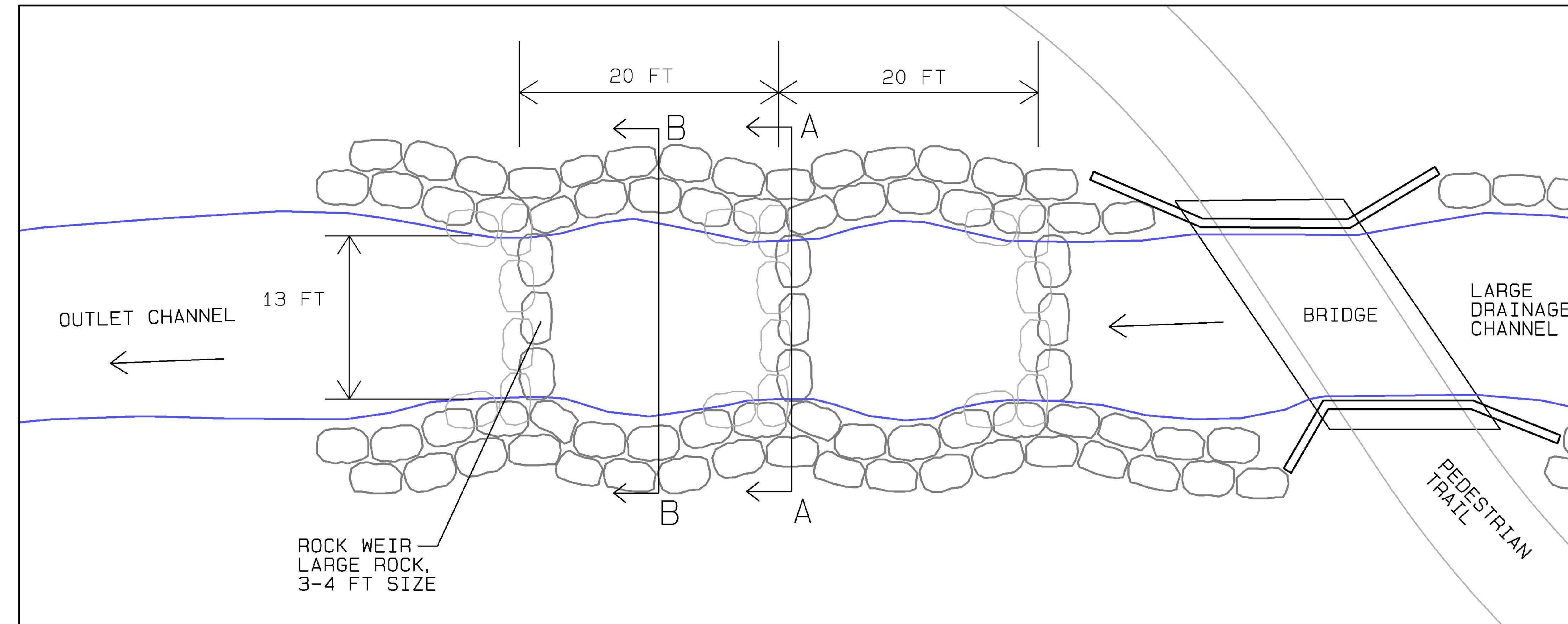
		DATE	CLIENT APPROVALS	DATE
CHECKED	CP	--		
DES. ENG.	CP	--		
PROJ. ENG.	CP	--		
PROJ. MGR.	RGE	--		
APPROVED	--	--		
APPROVED	--	--		

MADRID ARROYO
GRADE CONTROL STRUCTURE DETAILS
--

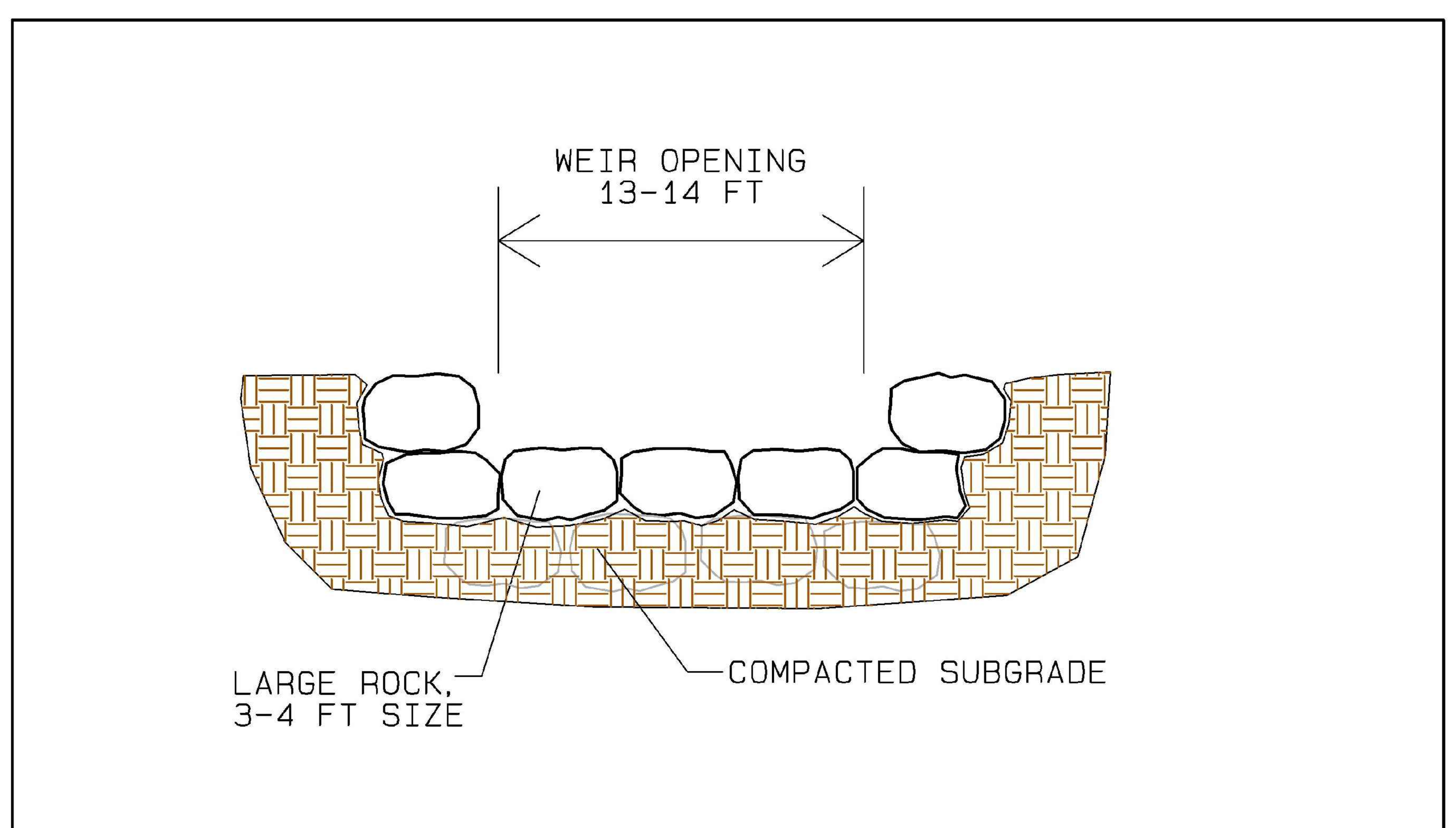
DRAWN	DATE	DWG. NO.	REV. NO.
C. PHILLIPS	23	C-213	A
SCALE: 1:1	W.O. NO.: --	SHT -- OF --	



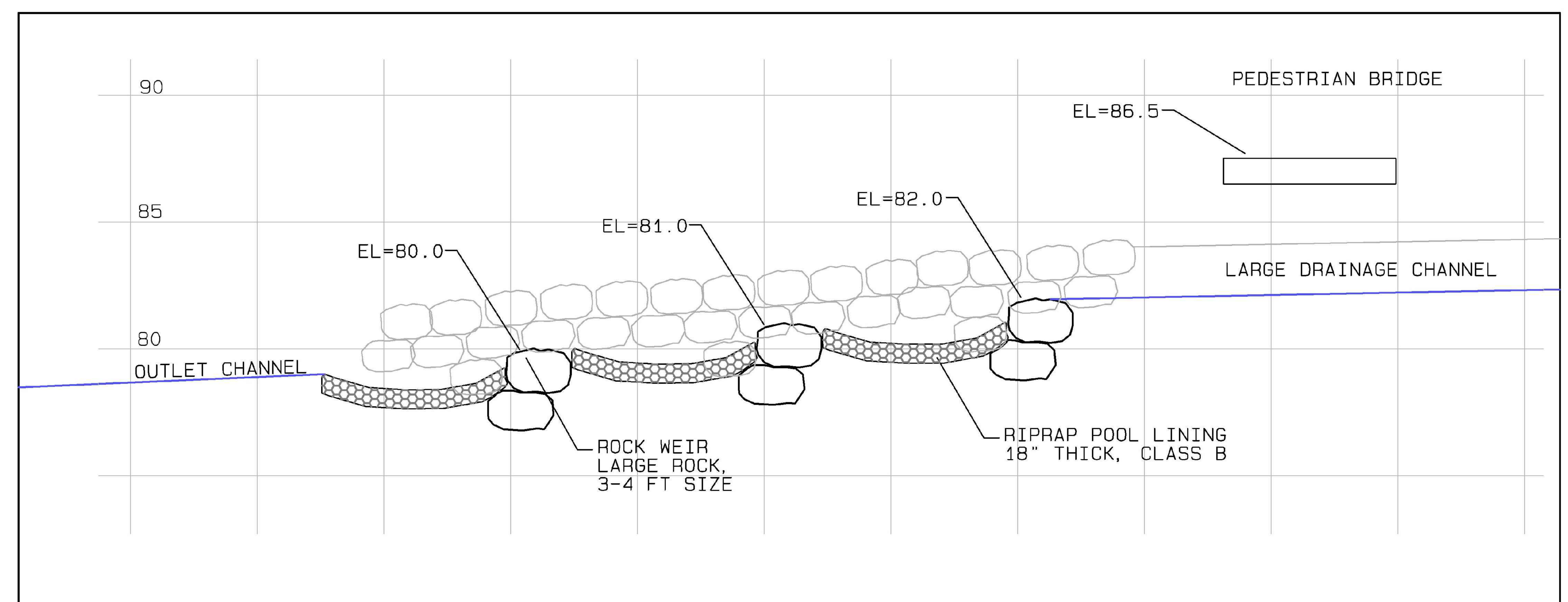
DRAINAGE CHANNEL RUNDOWN
TYPICAL SECTION B–B



DRAINAGE CHANNEL RUNDOWN
PLAN VIEW



DRAINAGE CHANNEL RUNDOWN
TYPICAL SECTION A–A



DRAINAGE CHANNEL RUNDOWN
PROFILE VIEW

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

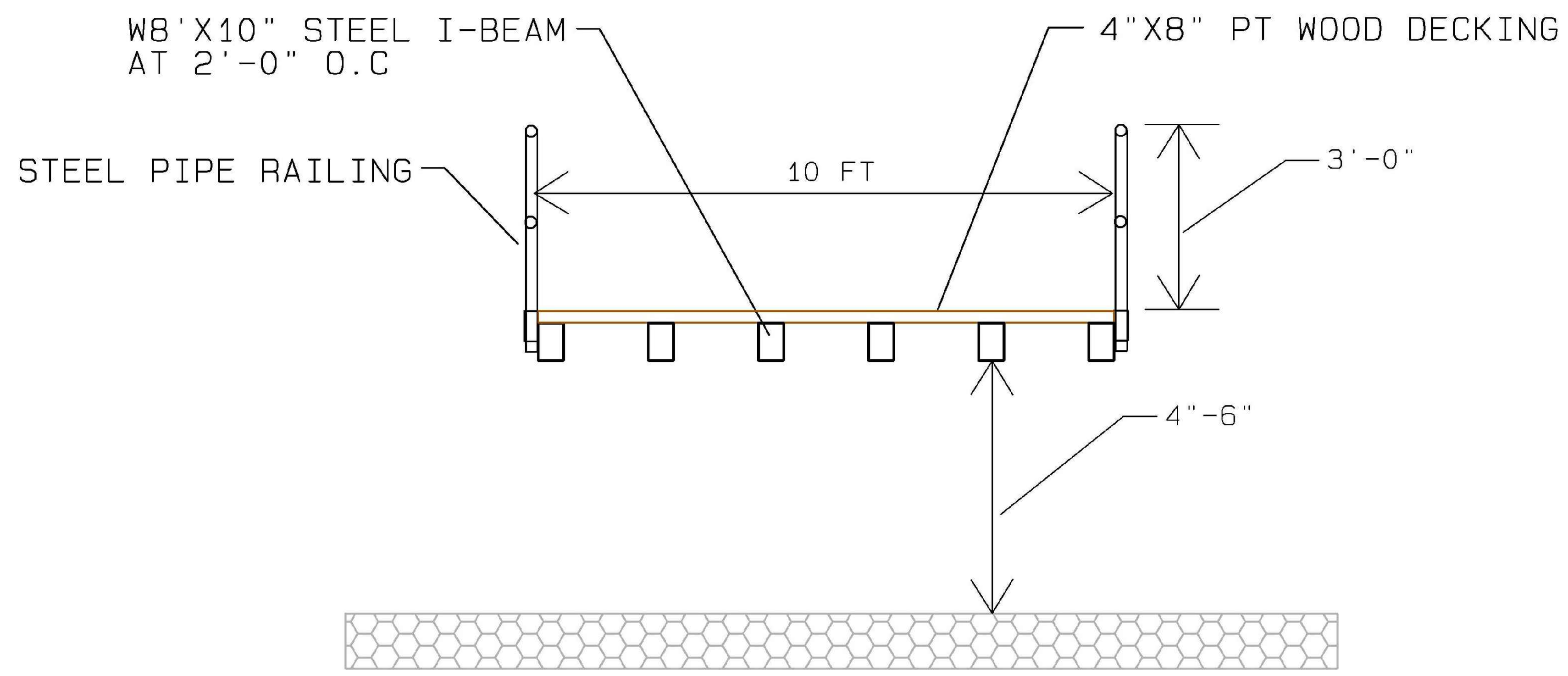
VILLAGE OF MADRID
STORM WATER DAMAGE REDUCTION PROJECT
MADRID NEW MEXICO

RIVERBEND ENGINEERING, LLC
ALBUQUERQUE NEW MEXICO

		DATE	CLIENT APPROVALS	DATE
CHECKED	CP	--		
DES. ENG.	CP	--		
PROJ. ENG.	CP	--		
PROJ. MGR.	RGE	--		
APPROVED	--	--		
APPROVED	--	--		

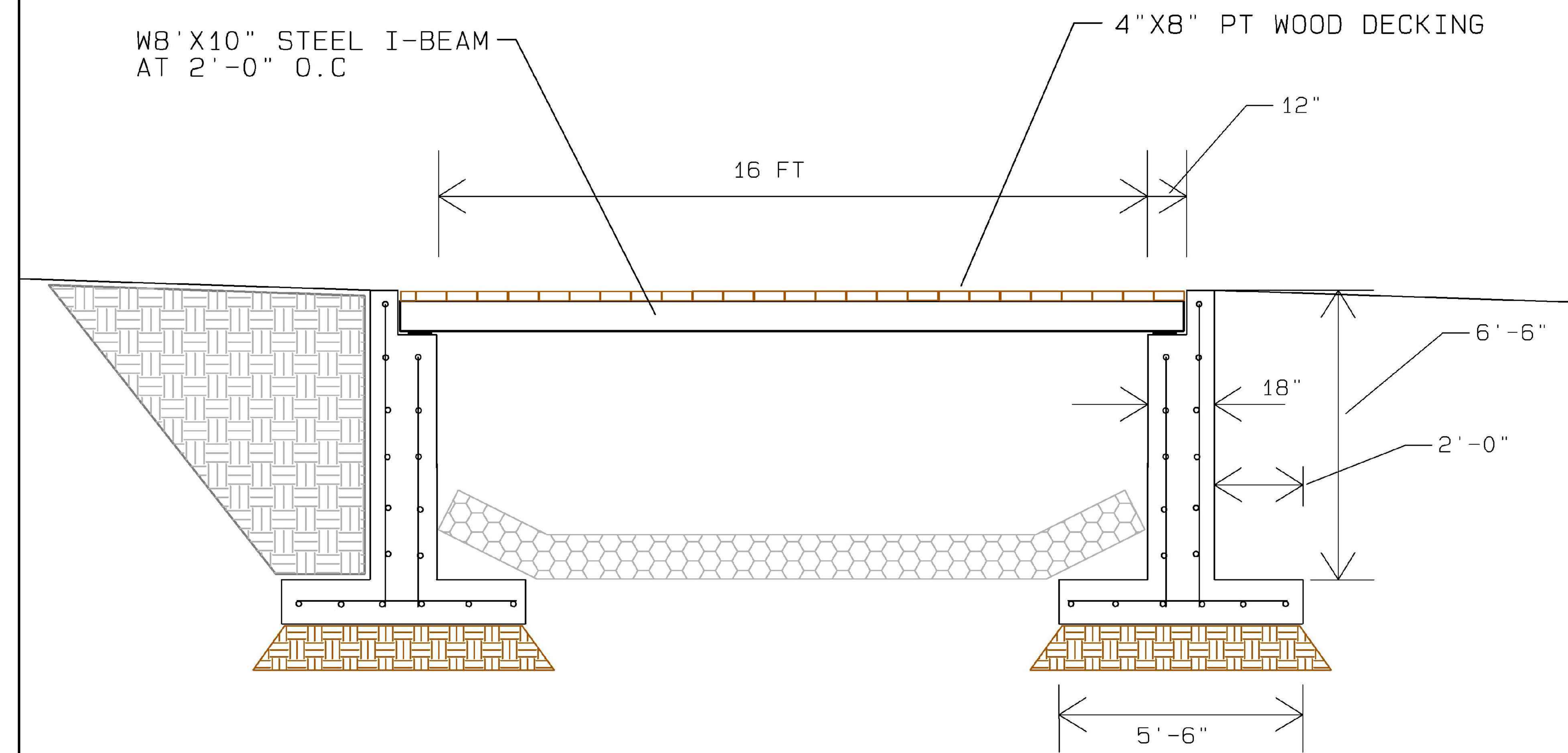
MADRID ARROYO
DRAINAGE DITCH RUNDOWN DETAILS
--

DRAWN	DATE	DWG. NO.	REV. NO.
C. PHILLIPS	23	C-214	A
SCALE 1:1	W.O. NO. --	SHT -- OF --	



PEDESTRIAN BRIDGE SECTION

NTS



PEDESTRIAN BRIDGE SECTION

NTS

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

VILLAGE OF MADRID
STORM WATER DAMAGE REDUCTION PROJECT

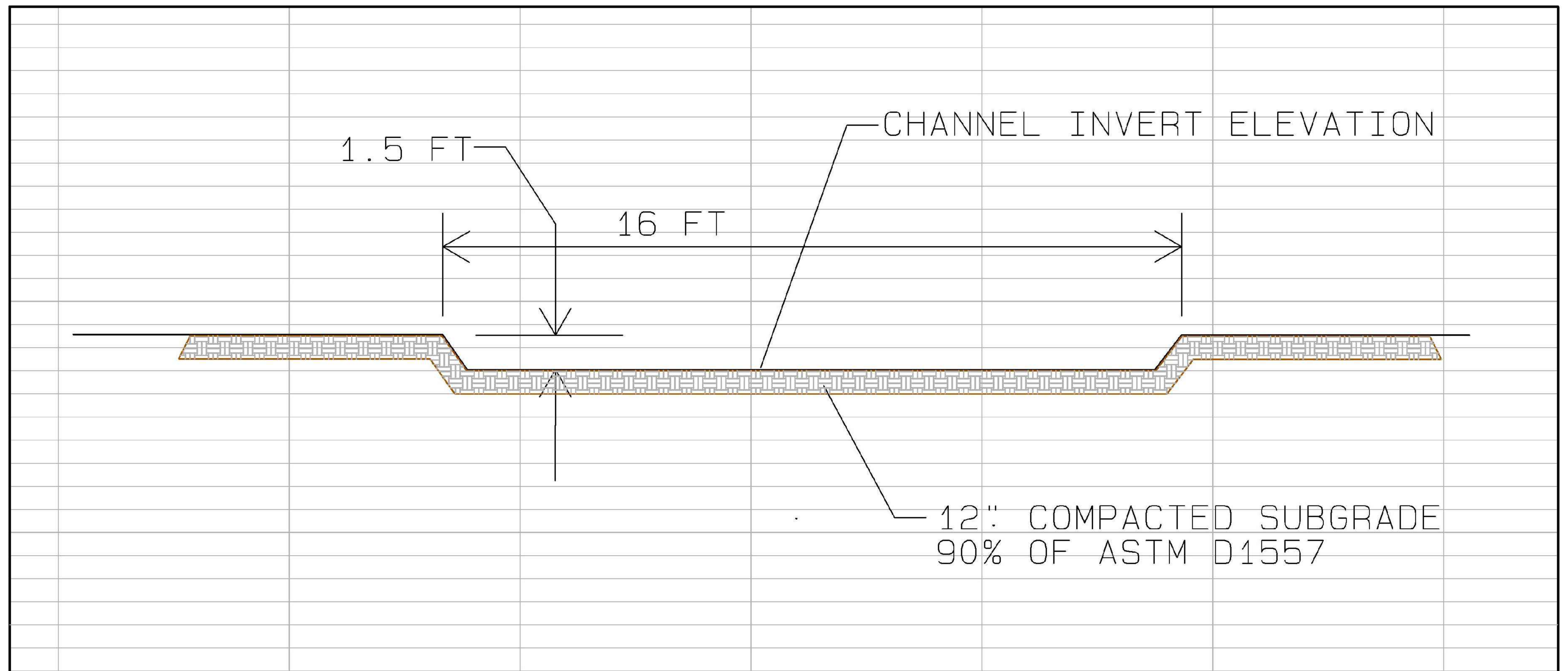
MADRID NEW MEXICO

ALBUQUERQUE RIVERBEND ENGINEERING, LLC NEW MEXICO

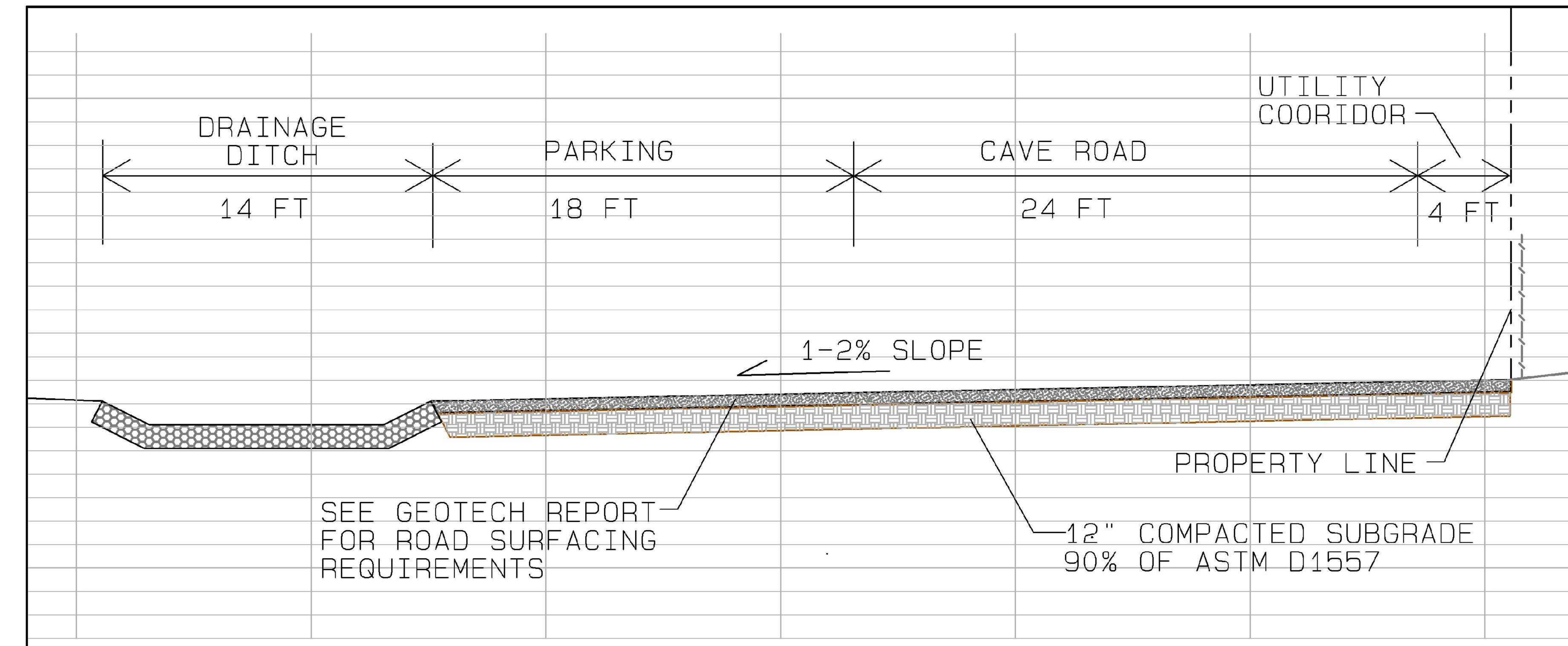
		DATE	CLIENT APPROVALS	DATE
CHECKED	CP	--		
DES. ENG.	CP	--		
PROJ. ENG.	CP	--		
PROJ. MGR.	RGE	--		
APPROVED	--	--		
APPROVED	--	--		

MADRID ARROYO
PEDESTRIAN BRIDGE DETAILS
--

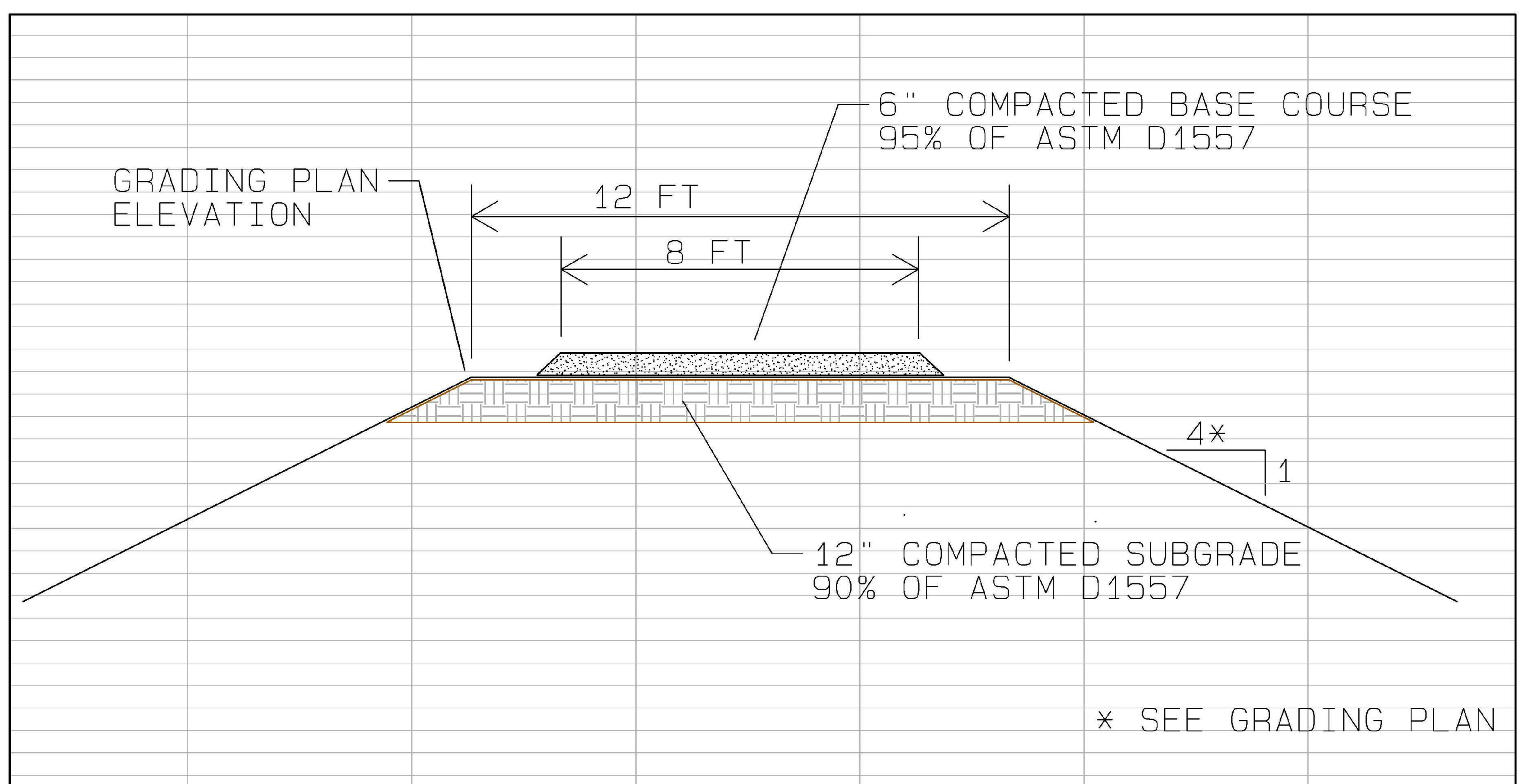
DRAWN	DATE	DWG. NO.	REV. NO.
C. PHILLIPS	23	C-215	A
SCALE	W.O. NO.	SHT -- OF --	
1:1	--		



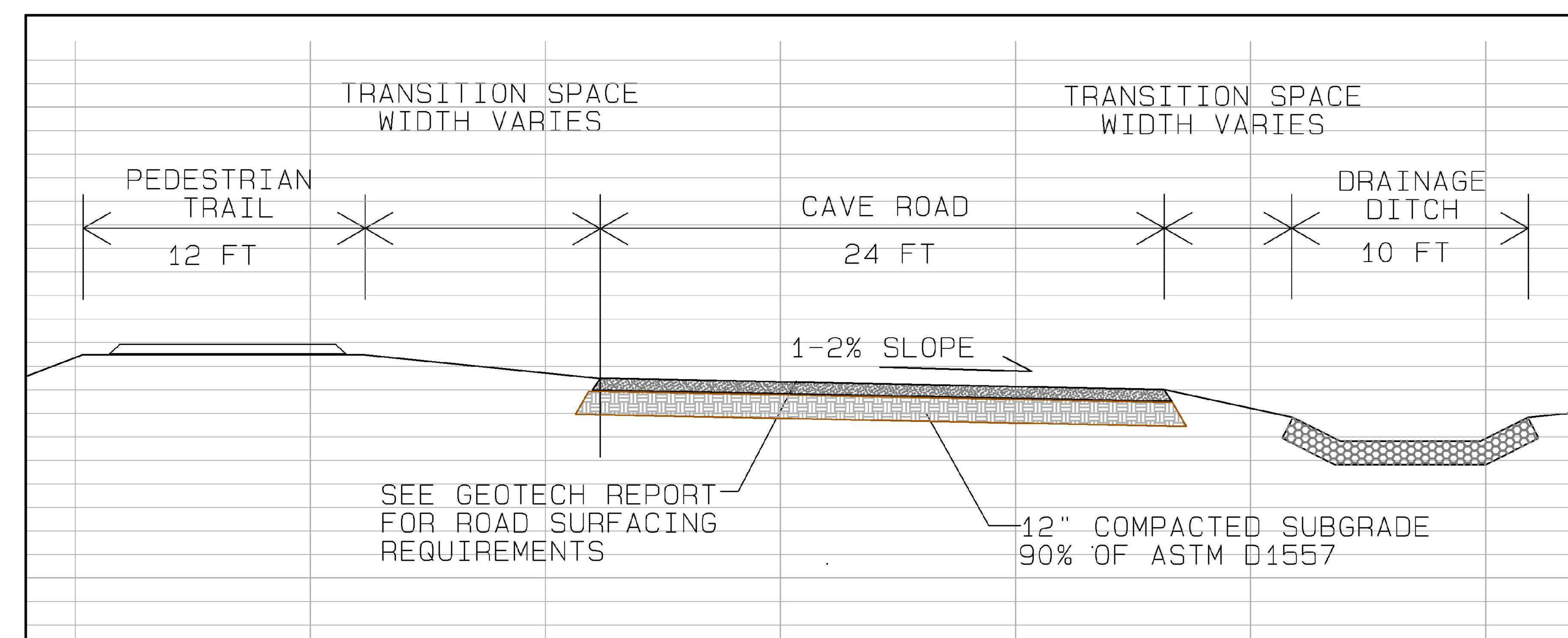
ARROYO CHANNEL, TYPICAL SECTION



CAVE ROAD, TYPICAL SECTION, SOUTH END



PEDESTRIAN TRAIL, TYPICAL SECTION



CAVE ROAD, TYPICAL SECTION, NORTH END

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

VILLAGE OF MADRID
STORM WATER DAMAGE REDUCTION PROJECT

MADRID NEW MEXICO

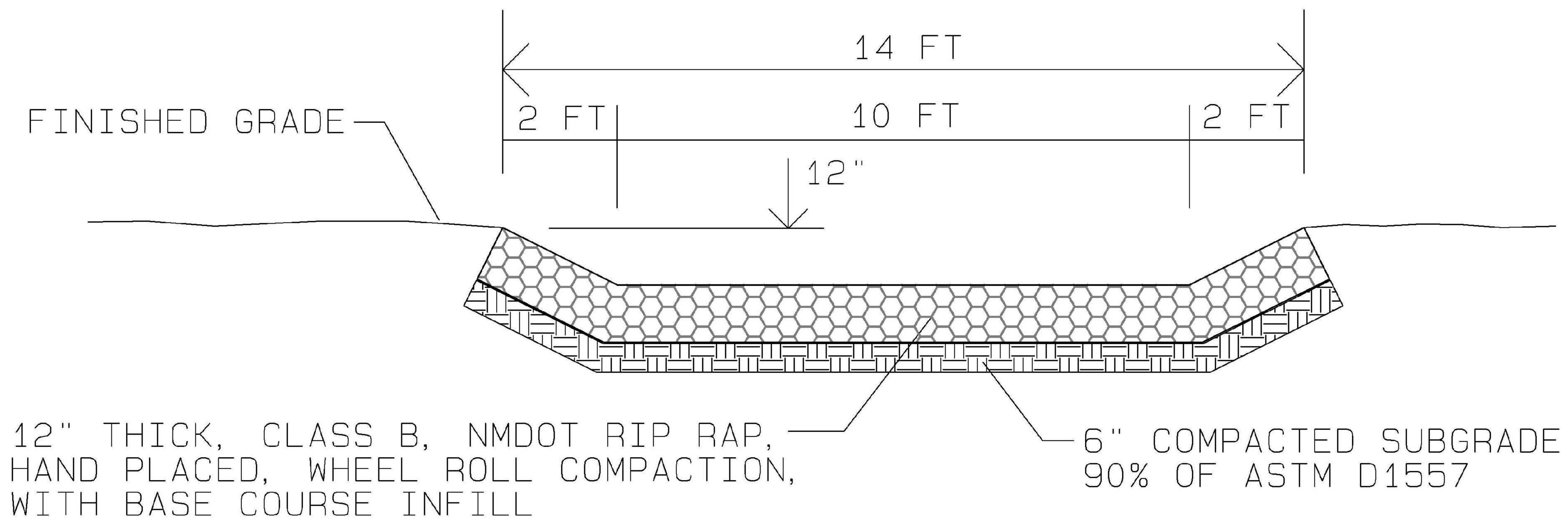
RIVERBEND ENGINEERING, LLC

ALBUQUERQUE NEW MEXICO

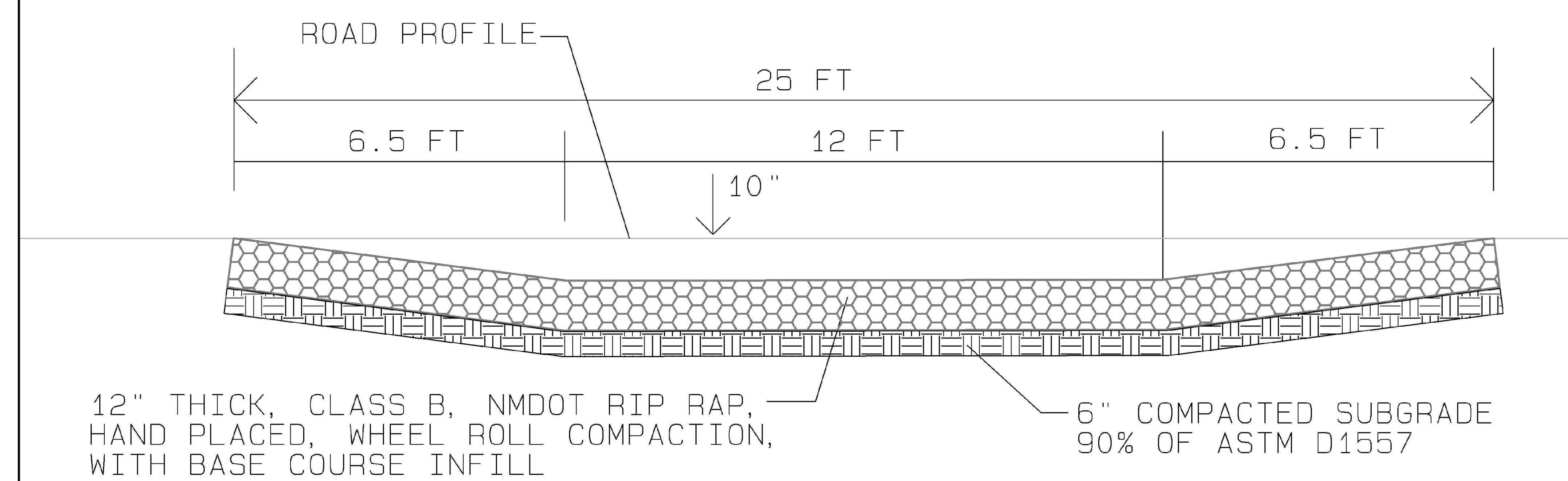
		DATE	CLIENT APPROVALS	DATE
CHECKED	CP	--		
DES. ENG.	CP	--		
PROJ. ENG.	CP	--		
PROJ. MGR.	RGE	--		
APPROVED	--	--		
APPROVED	--	--		

MADRID ARROYO
TYPICAL SECTION DETAILS
--

DRAWN	DATE	DWG. NO.	REV. NO.
C. PHILLIPS	23	C-216	A
SCALE 1:1	W.O. NO. --	SHT -- OF --	

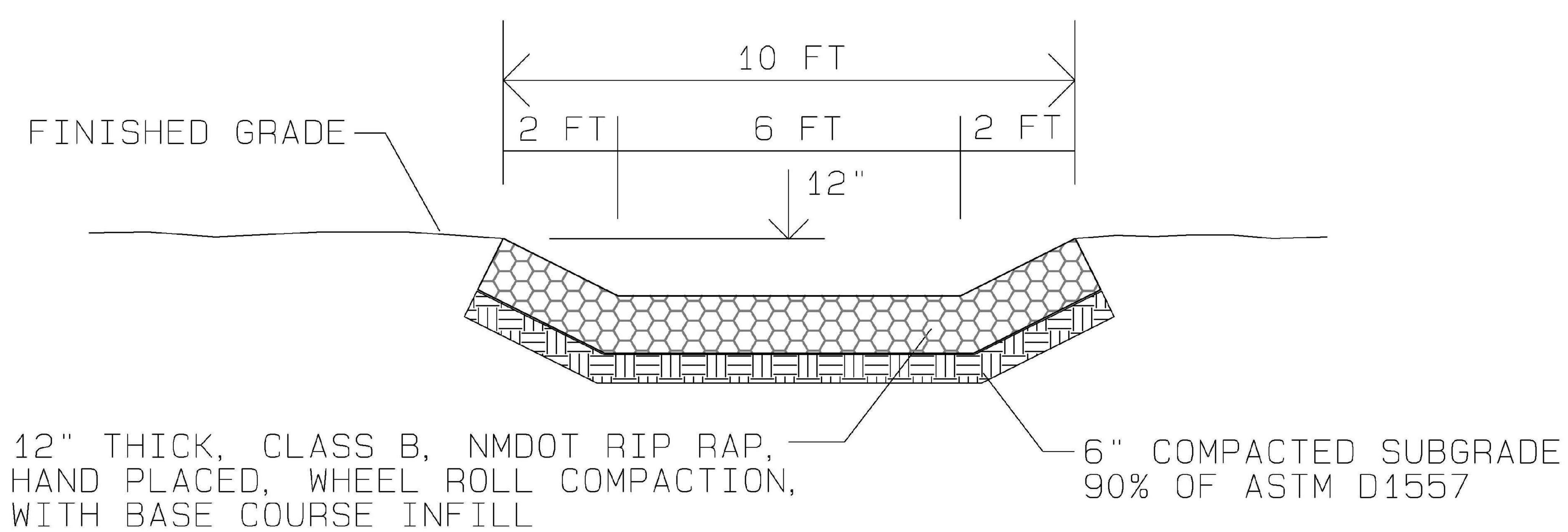


RIP RAP LINED DRAINAGE CHANNEL, LARGE VERSION
TYPICAL SECTION
NTS

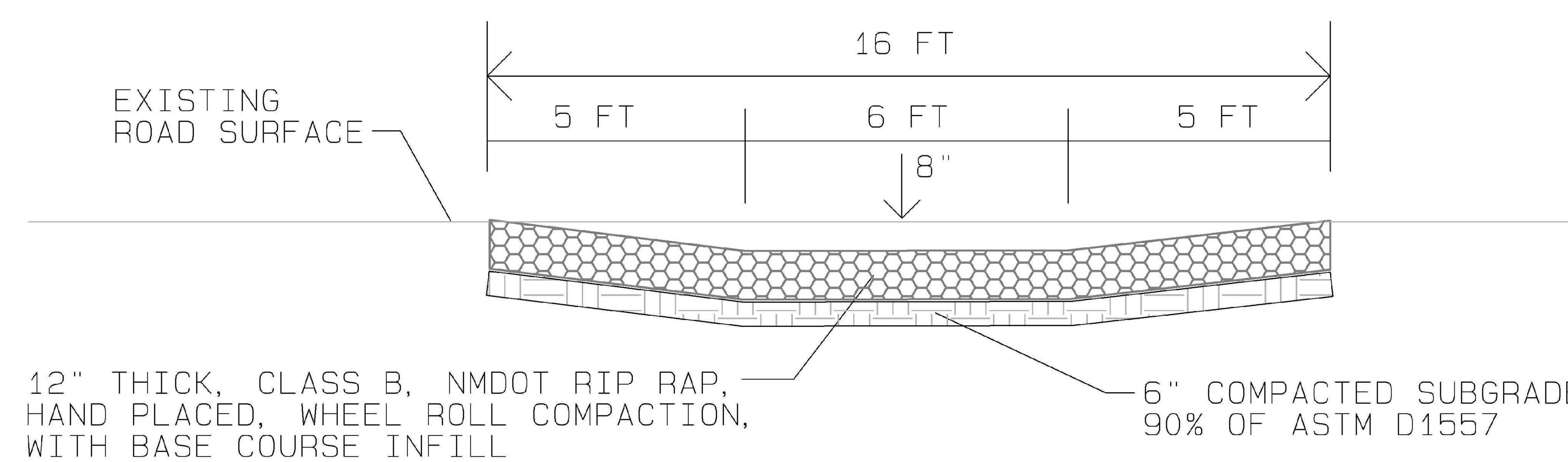


RIP RAP LINED CROSS-ROAD SWALE, LARGE VERSION
TYPICAL SECTION

CROSS SLOPE=1.0-1.5%



RIP RAP LINED DRAINAGE CHANNEL, SMALL VERSION
TYPICAL SECTION
NTS



RIP RAP LINED CROSS-ROAD SWALE, SMALL VERSION
TYPICAL SECTION
NTS

CROSS SLOPE=1.0-1.5%

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

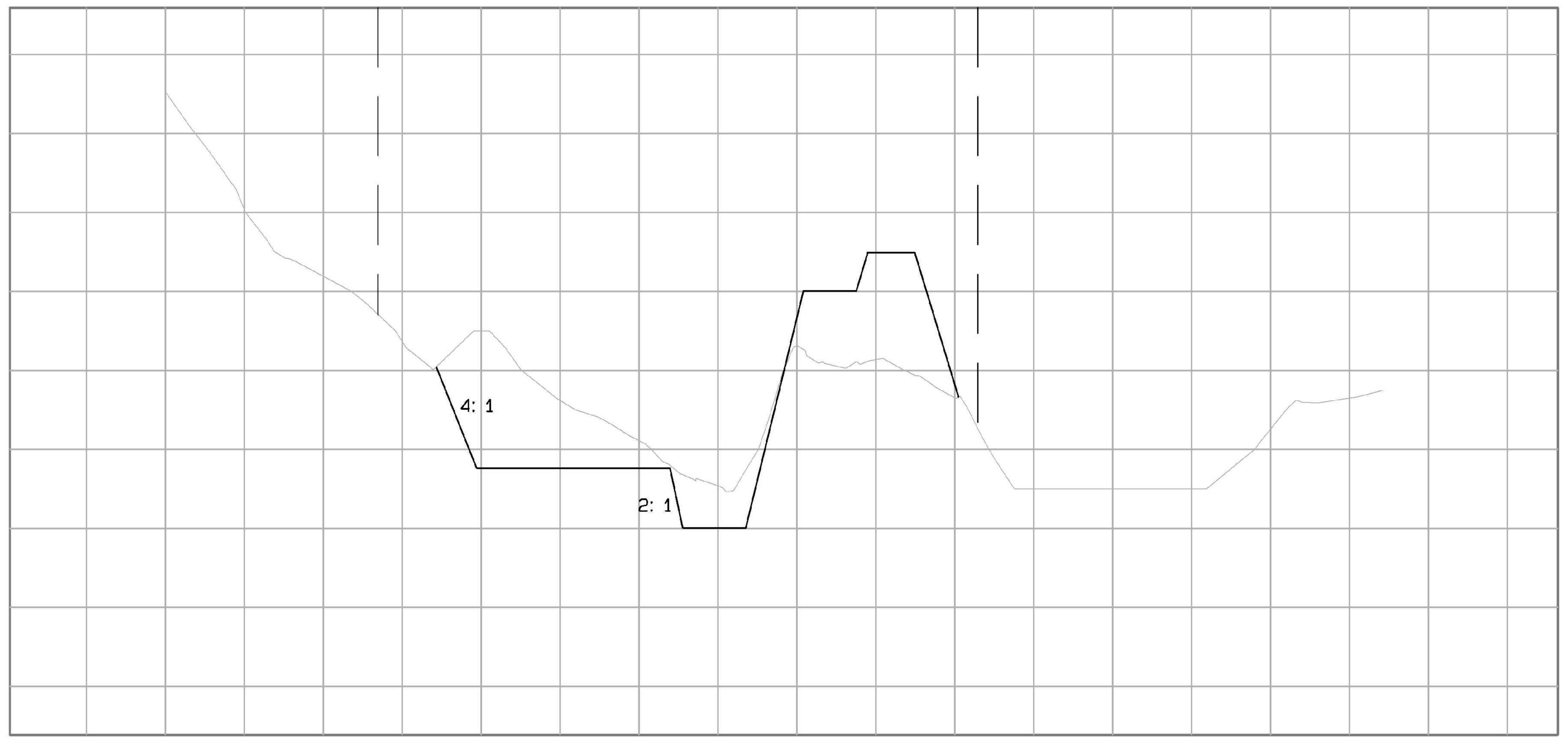
VILLAGE OF MADRID
STORM WATER DAMAGE REDUCTION PROJECT
MADRID — NEW MEXICO

RIVERBEND ENGINEERING, LLC
ALBUQUERQUE — NEW MEXICO

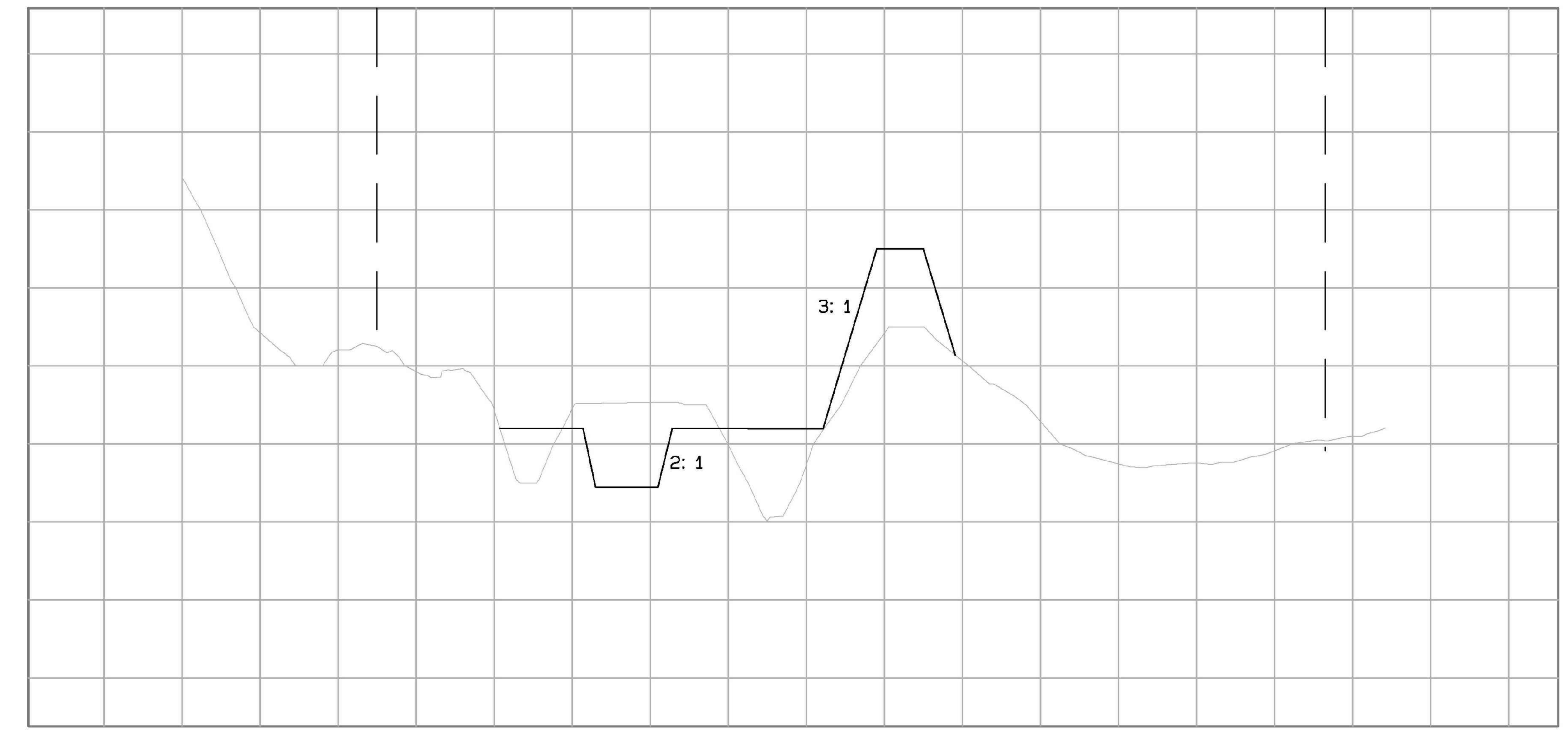
		DATE	CLIENT APPROVALS	DATE
CHECKED	CP	--		
DES. ENG.	CP	--		
PROJ. ENG.	CP	--		
PROJ. MGR.	RGE	--		
APPROVED	--	--		
APPROVED	--	--		

TYPICAL SECTION DETAILS
DEMOLITION PLAN
--

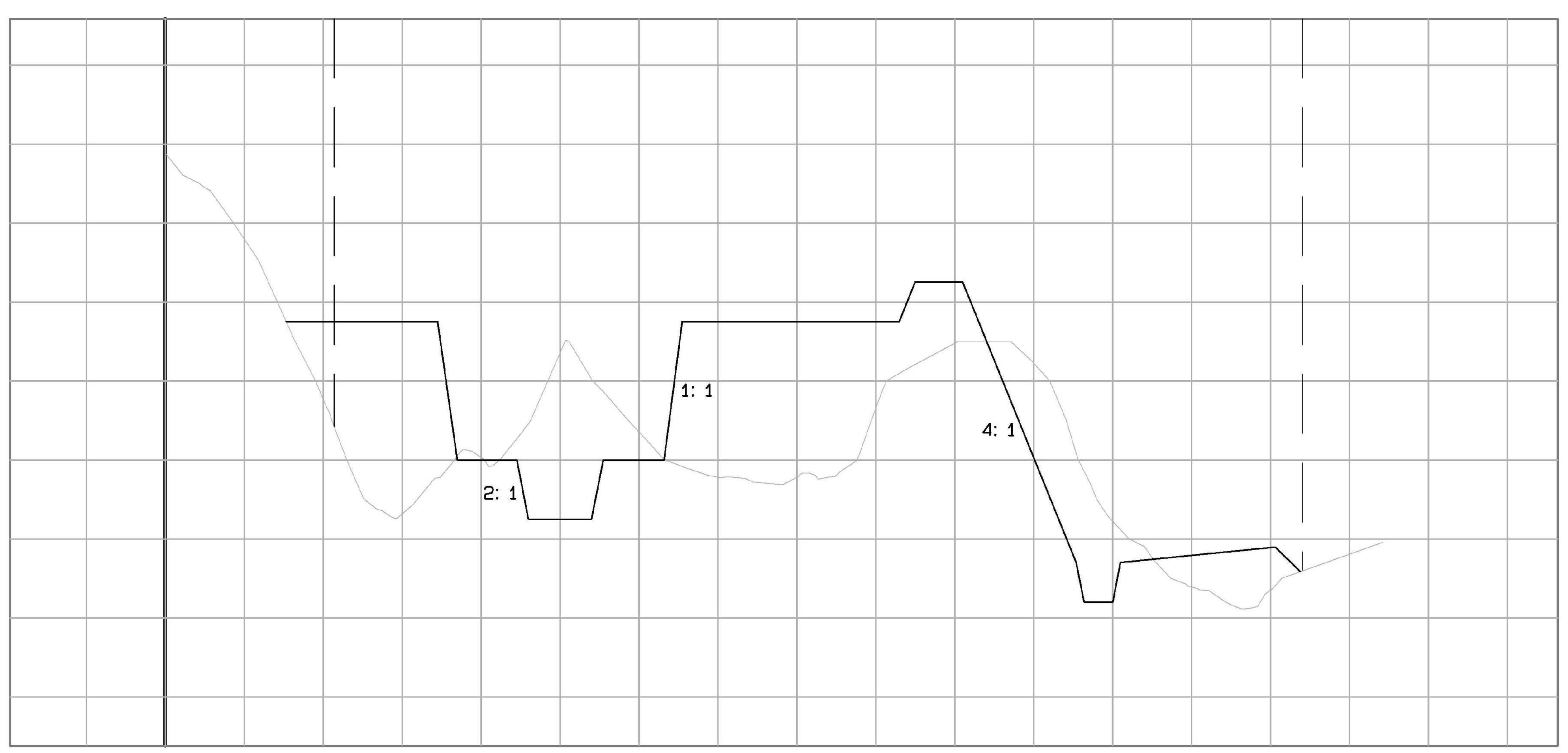
DRAWN	DATE	DWG. NO.	REV. NO.
C. PHILLIPS	23	C-217	A
SCALE	W.O. NO.	SHT -- OF --	
1:1	--		



SECTION 1



SECTION 2



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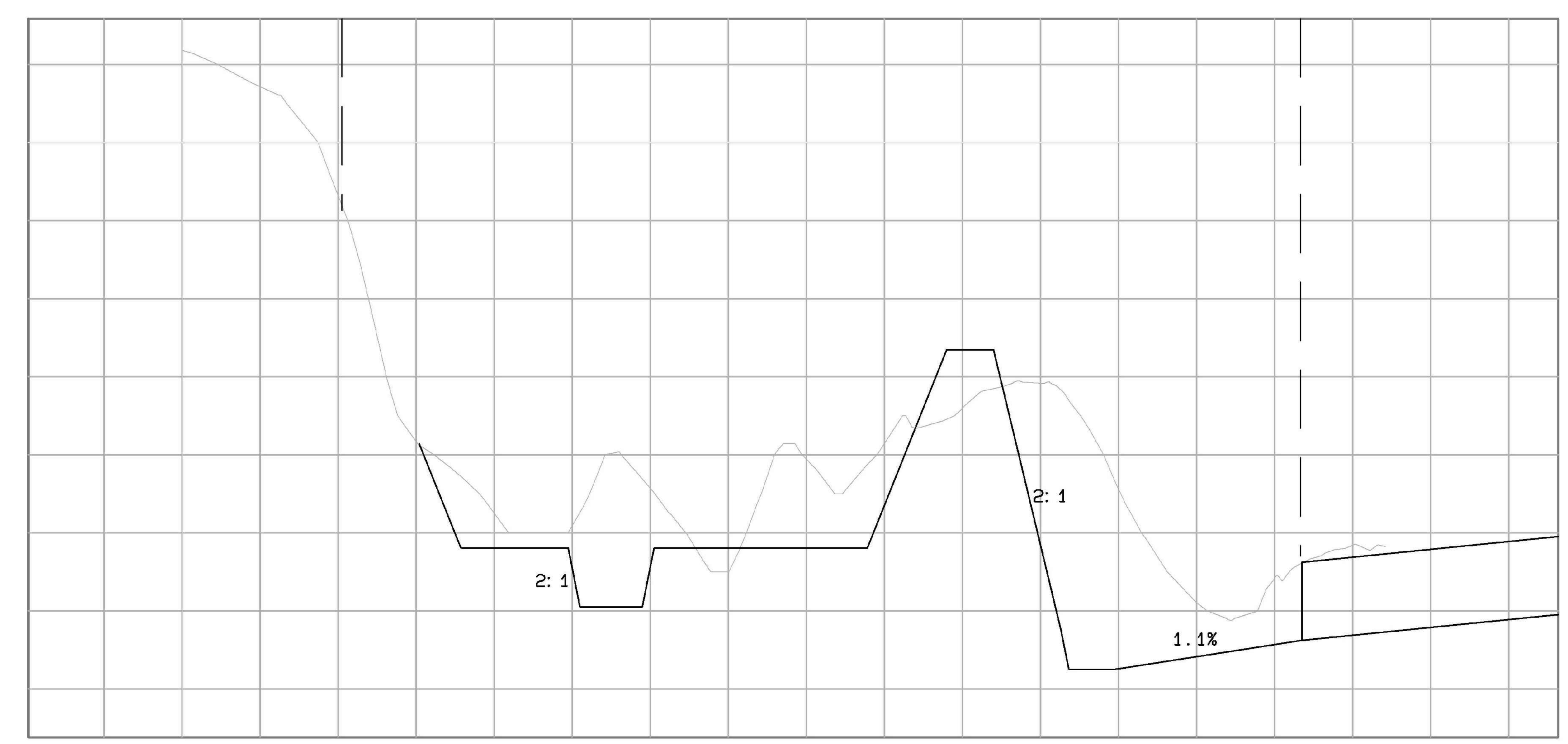


SECTION 4

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

VILLAGE OF MADRID
STORM WATER DAMAGE REDUCTION PROJECT

MADRID NEW MEXICO

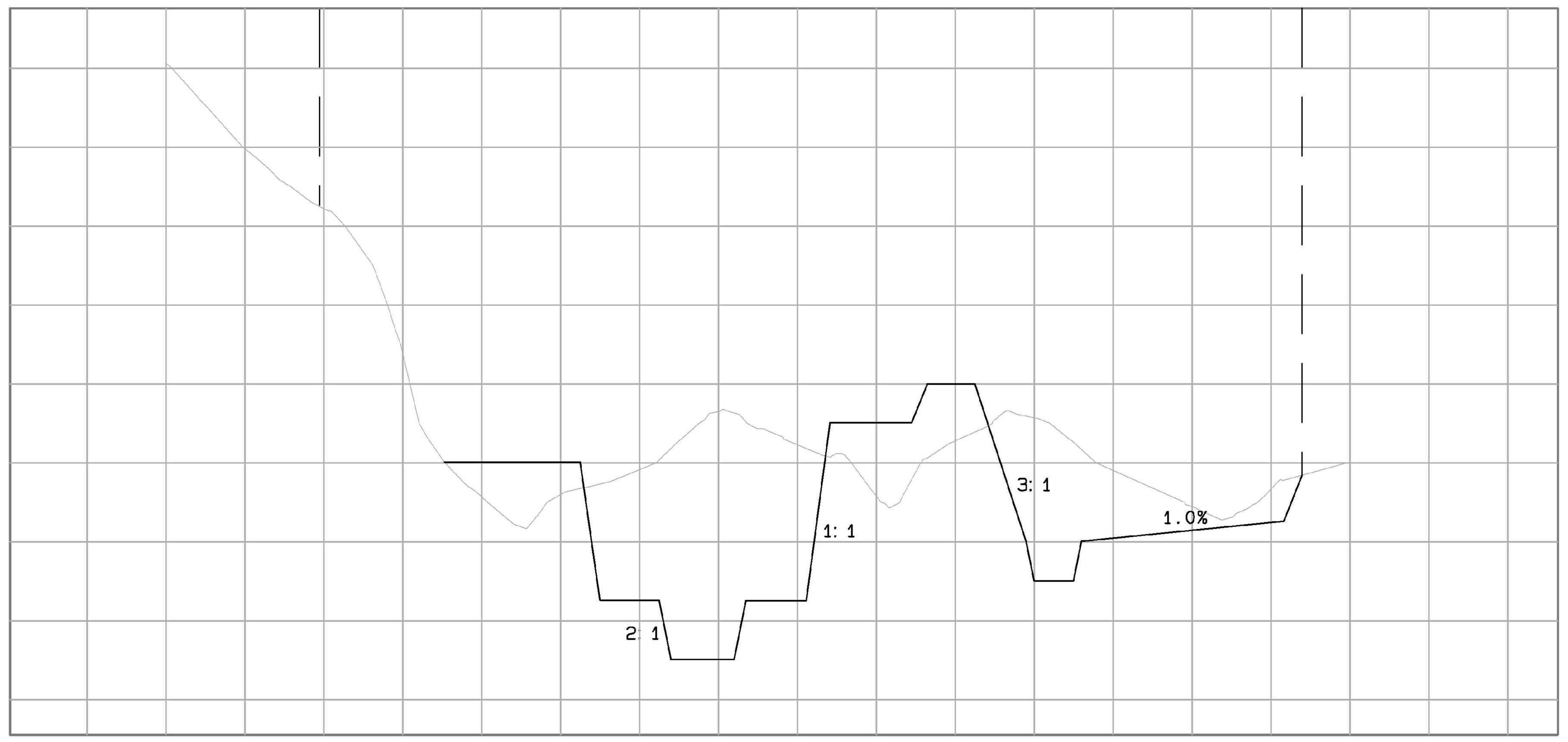
RIVERBEND ENGINEERING, LLC

ALBUQUERQUE NEW MEXICO

		DATE	CLIENT APPROVALS	DATE
CHECKED	CP	--		
DES. ENG.	CP	--		
PROJ. ENG.	CP	--		
PROJ. MGR.	RGE	--		
APPROVED	--	--		
APPROVED	--	--		

MADRID ARROYO
MAJOR SECTIONS
--

DRAWN	DATE	DWG. NO.	REV. NO.
C. PHILLIPS	23	C-218	A
SCALE: 1:1	W.O. NO.: --	SHT. -- OF --	



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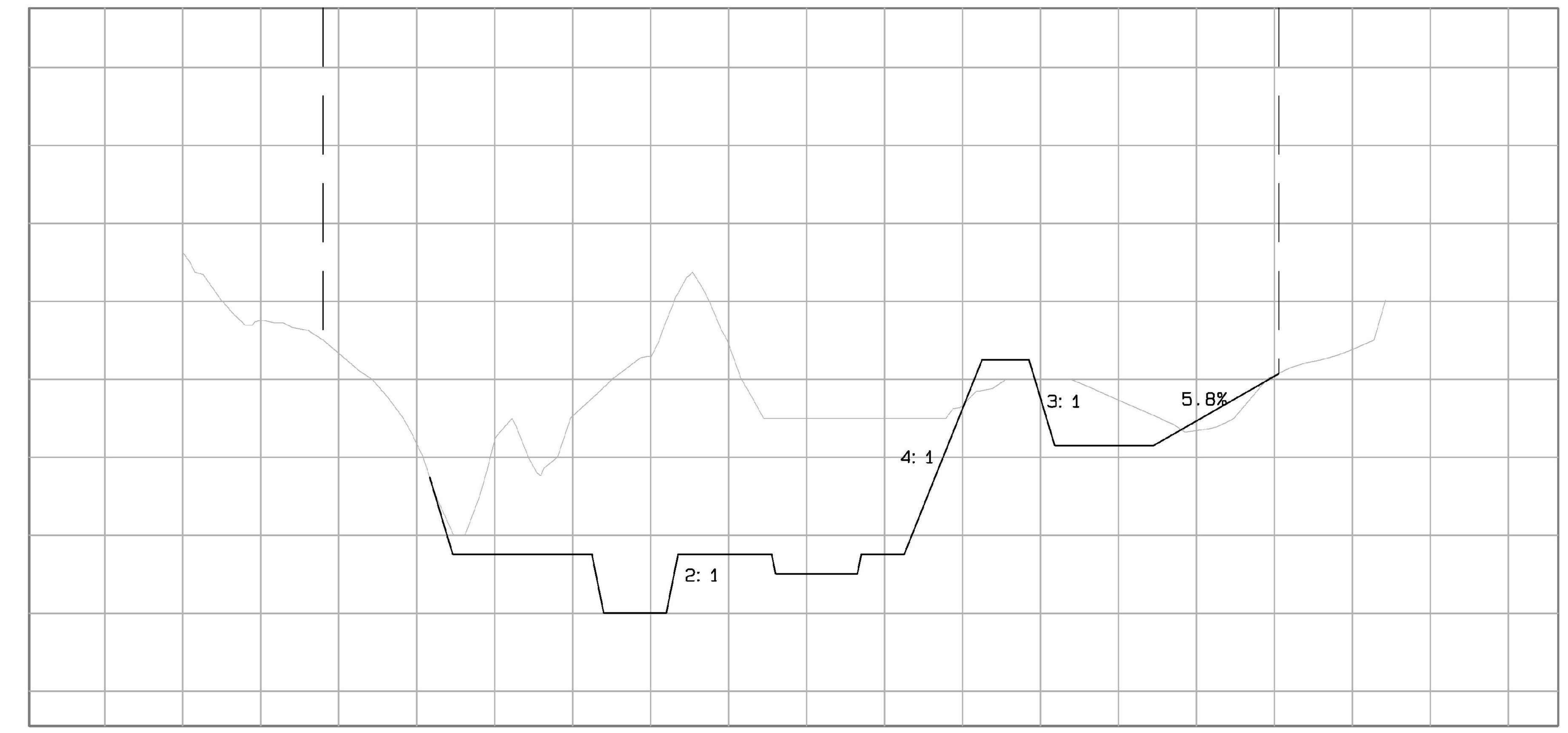

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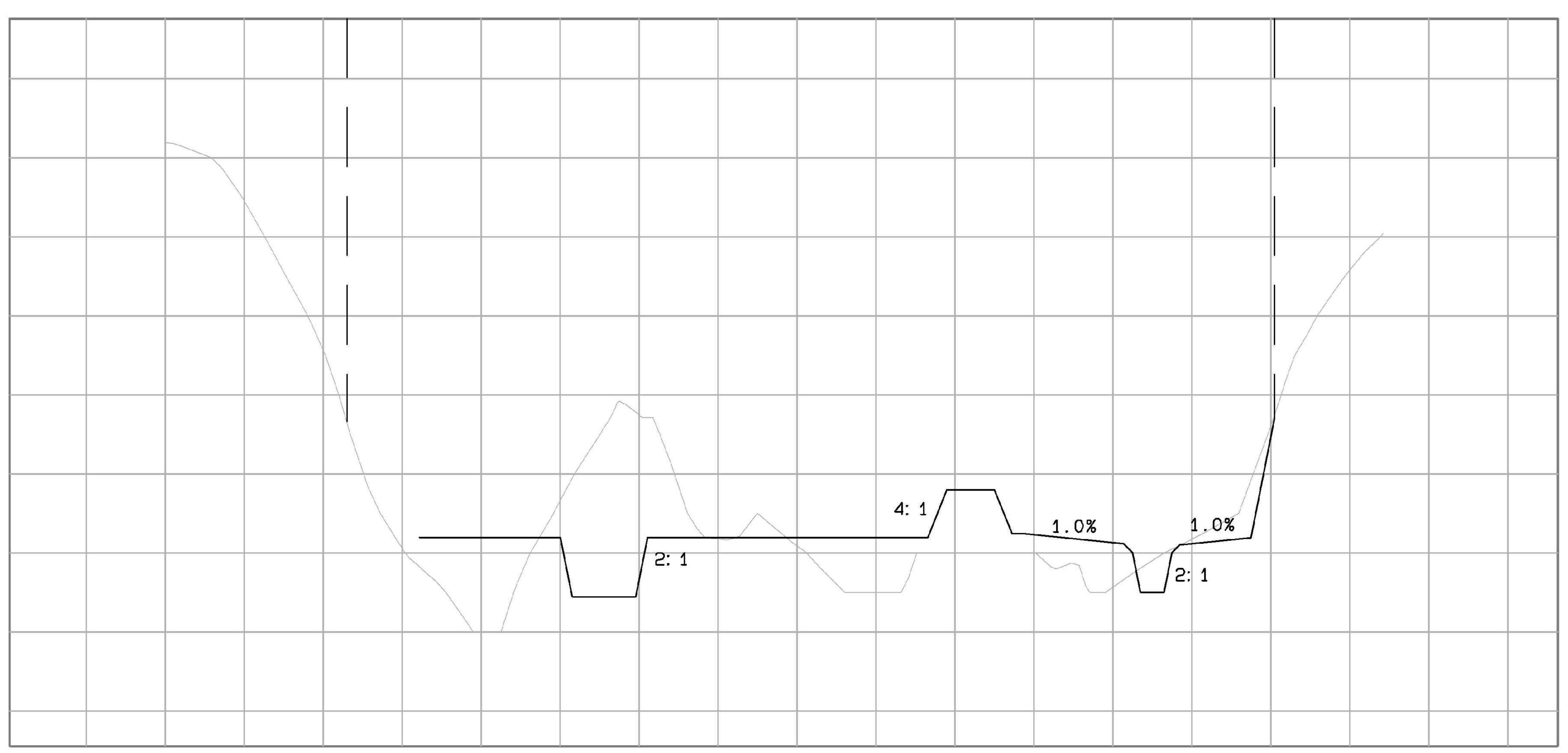

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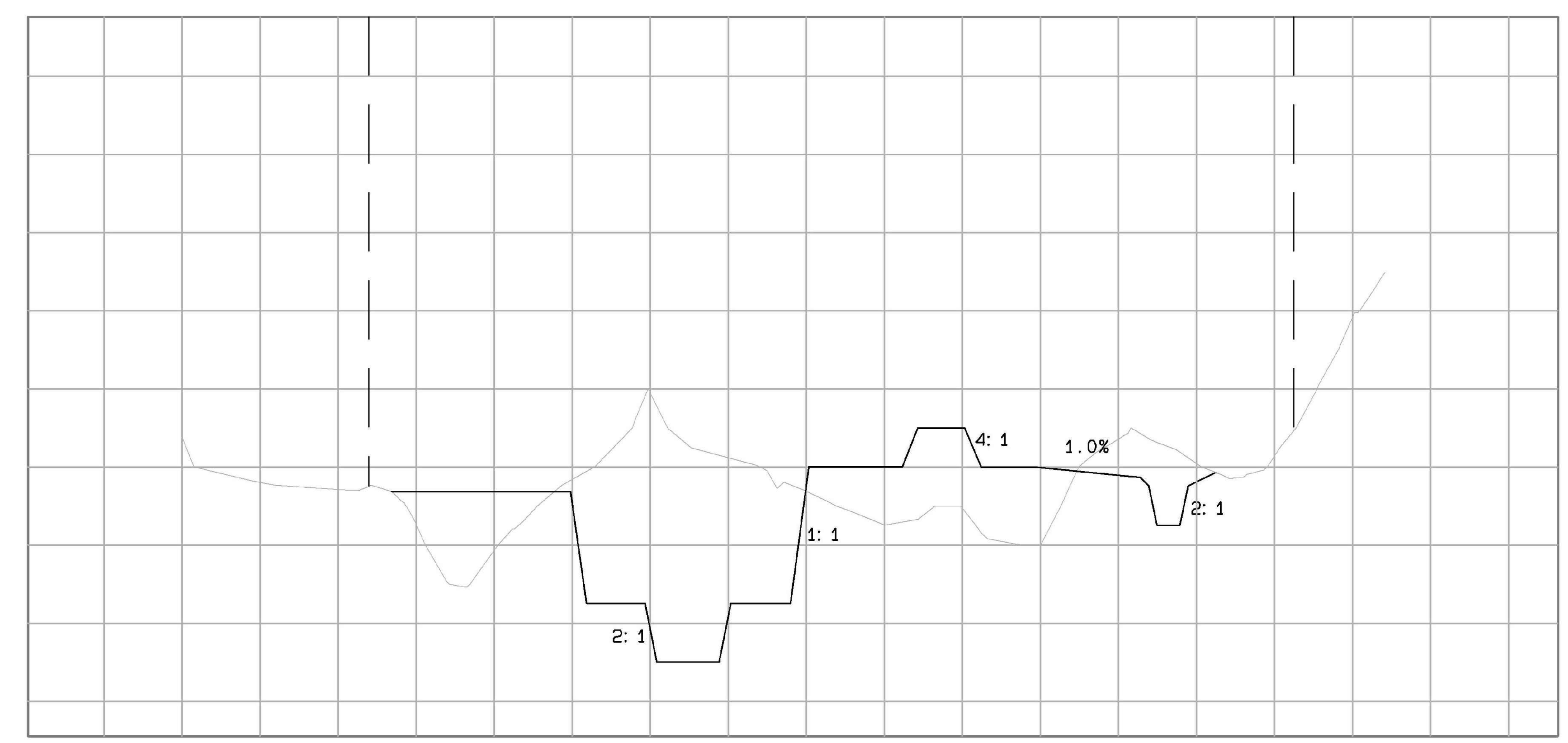


SECTION 8

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

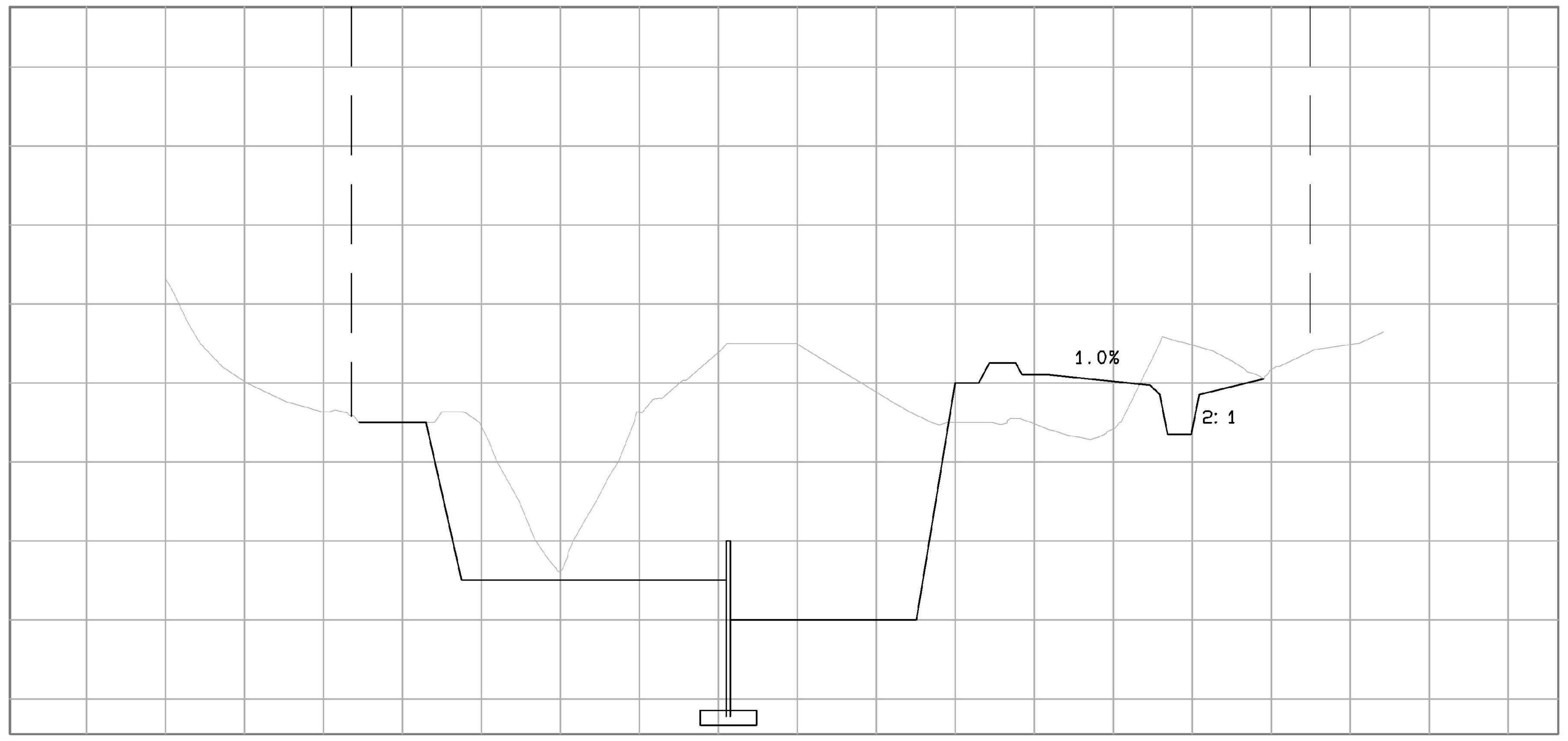
VILLAGE OF MADRID
STORM WATER DAMAGE REDUCTION PROJECT
MADRID NEW MEXICO

RIVERBEND ENGINEERING, LLC
ALBUQUERQUE NEW MEXICO

		DATE	CLIENT APPROVALS	DATE
CHECKED	CP	--		
DES. ENG.	CP	--		
PROJ. ENG.	CP	--		
PROJ. MGR.	RGE	--		
APPROVED	--	--		
APPROVED	--	--		

MADRID ARROYO
MAJOR SECTIONS
--

DRAWN	DATE	DWG. NO.	REV. NO.
C. PHILLIPS	23	C-219	A
SCALE 1:1	W.O. NO. --	SHT -- OF --	



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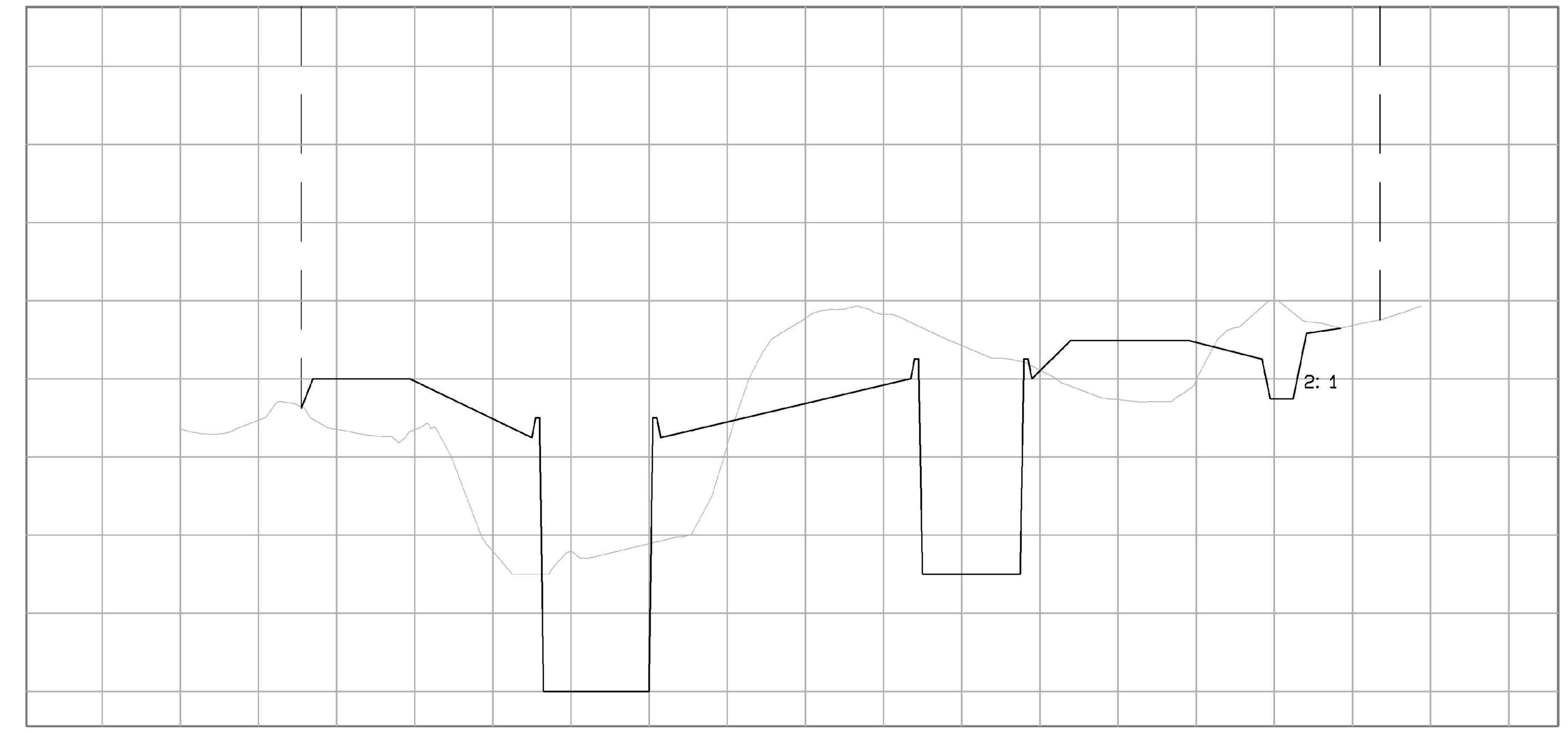

SECTION 10

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

VILLAGE OF MADRID
STORM WATER DAMAGE REDUCTION PROJECT

MADRID — NEW MEXICO

RIVERBEND ENGINEERING, LLC

ALBUQUERQUE — NEW MEXICO

		DATE	CLIENT APPROVALS	DATE
CHECKED	CP	--		
DES. ENG.	CP	--		
PROJ. ENG.	CP	--		
PROJ. MGR.	RGE	--		
APPROVED	--	--		
APPROVED	--	--		

MADRID ARROYO
MAJOR SECTIONS
--

DRAWN	DATE	DWG. NO.	REV. NO.
C. PHILLIPS	23	C-220	A
SCALE 1:1	W.O. NO. --	SHT -- OF --	