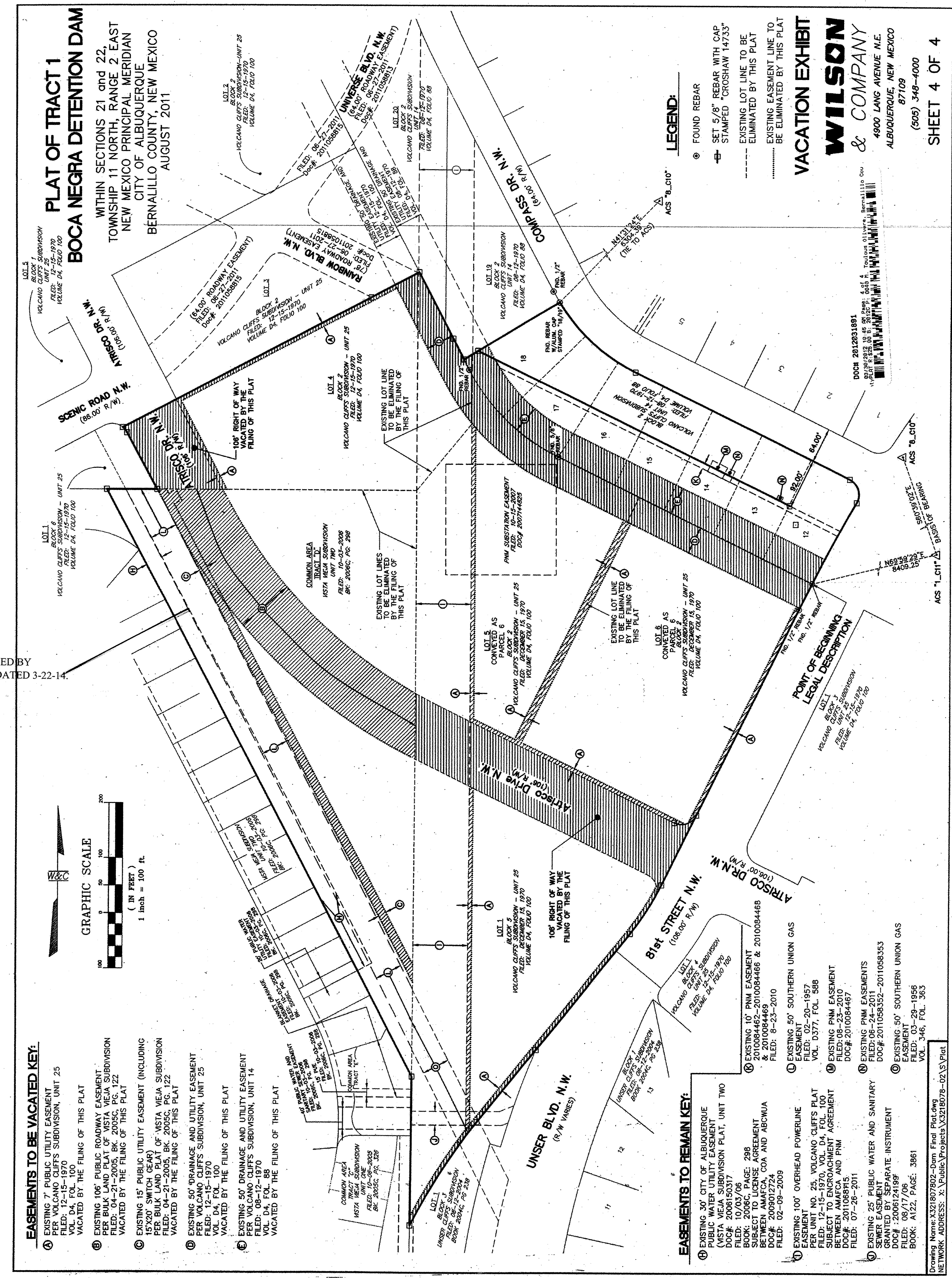
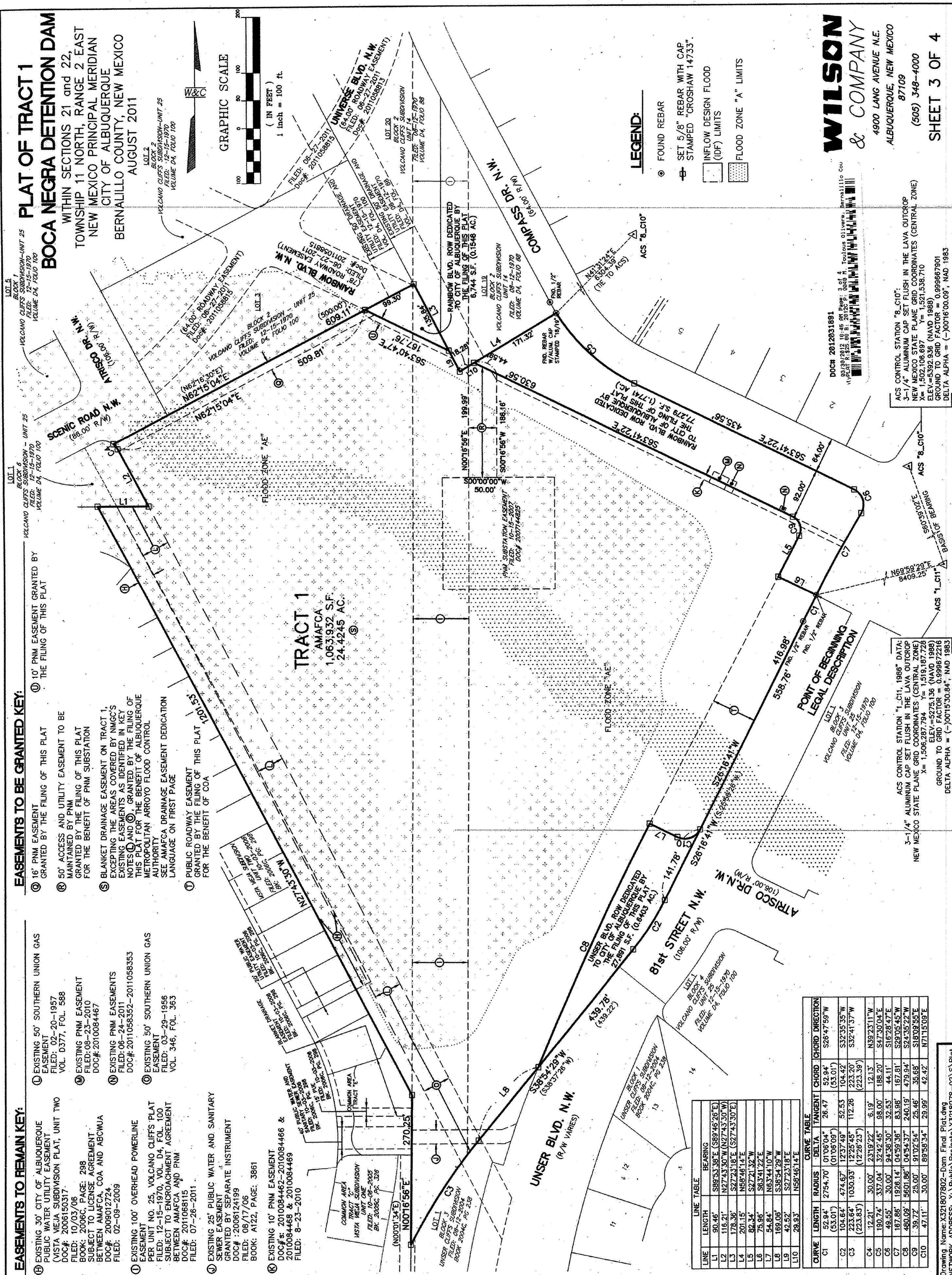
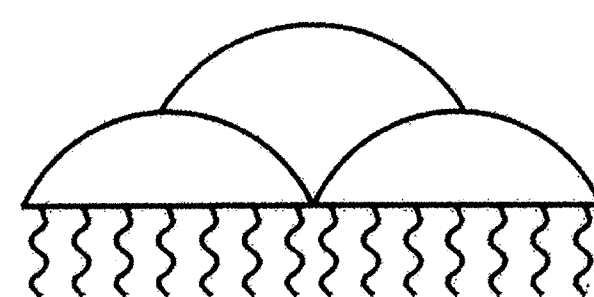


APPENDIX 3 (CD)

BOCA NEGRA DETENTION DAM PLAT

BOCA NEGRA DETENTION DAM AS-BUILT DRAWINGS

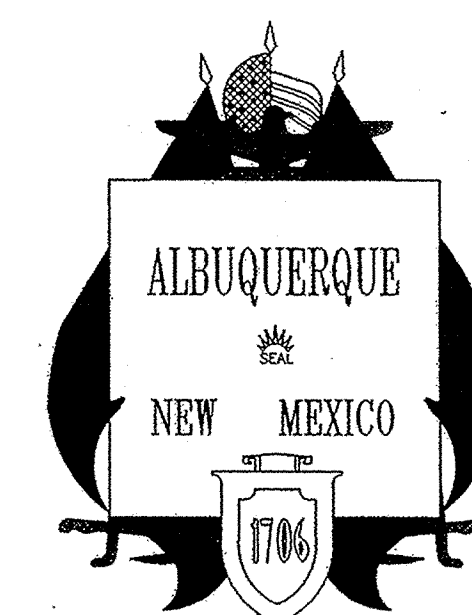




ALBUQUERQUE METROPOLITAN ARROYO FLOOD CONTROL AUTHORITY

CONSTRUCTION PLANS FOR

BOCA NEGRA DETENTION DAM

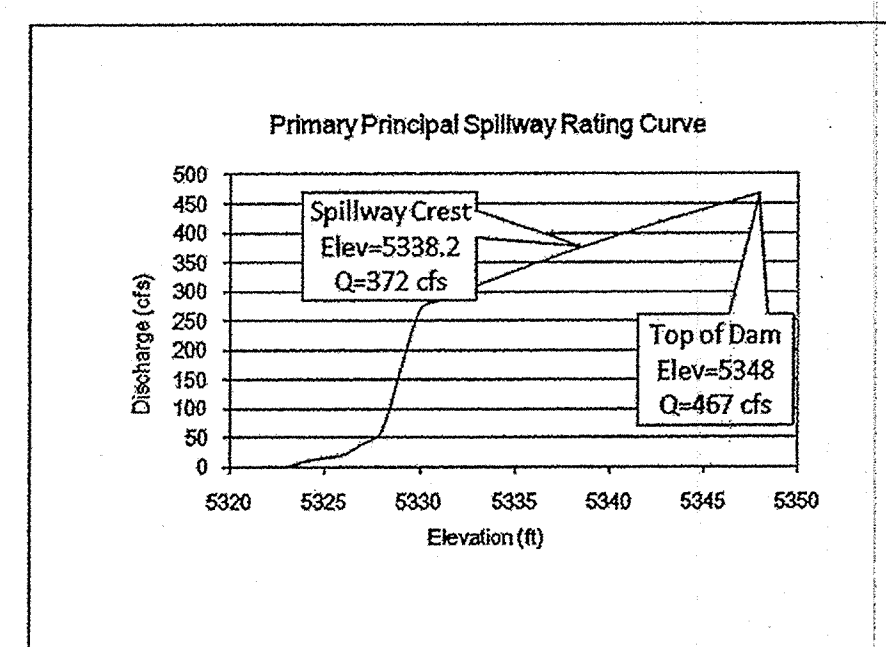


REFERENCES:			
BOCA NEGRA MARIPOSA DMP	RTI	APRIL 2005	
DESIGN REPORT	WCI	DECEMBER 2011	
GEOTECH REPORT	GEOTEST	OCTOBER 2011	
DOUBLE EAGLE II AIRPORT DRAINAGE MANAGEMENT	MCI	APRIL 2005	
HYDROLOGIC & HYDRAULIC ANALYSIS REPORT	WCI	SEPTEMBER 2011	

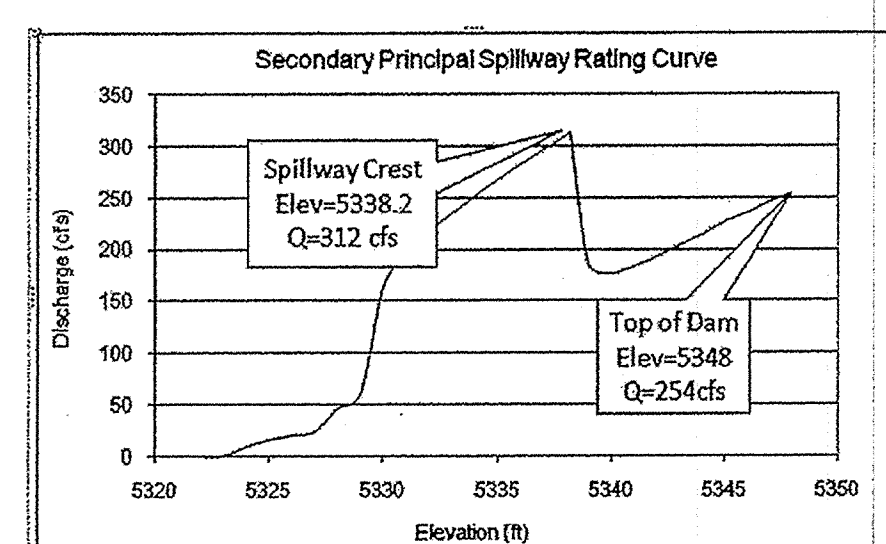
MARCH 2015

TAKEN FROM ORIGINAL

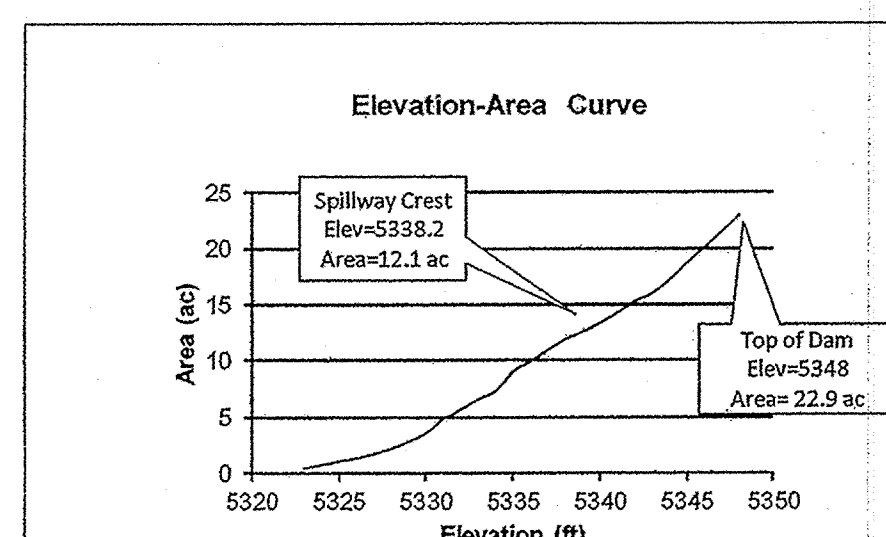
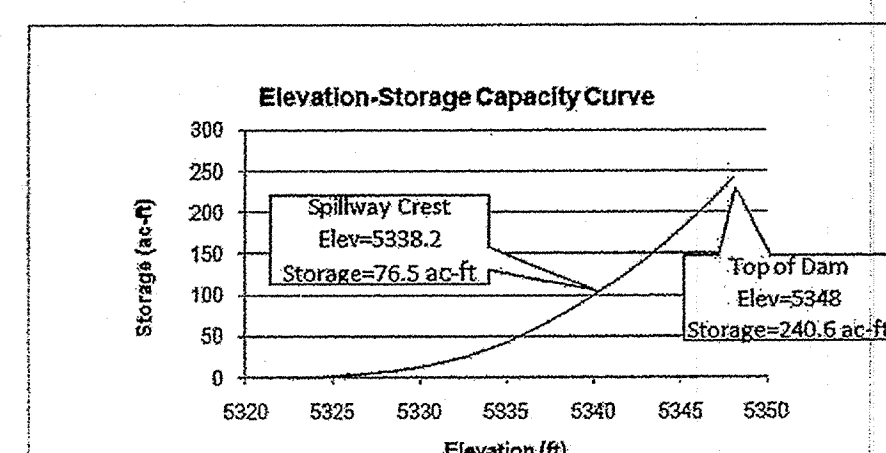
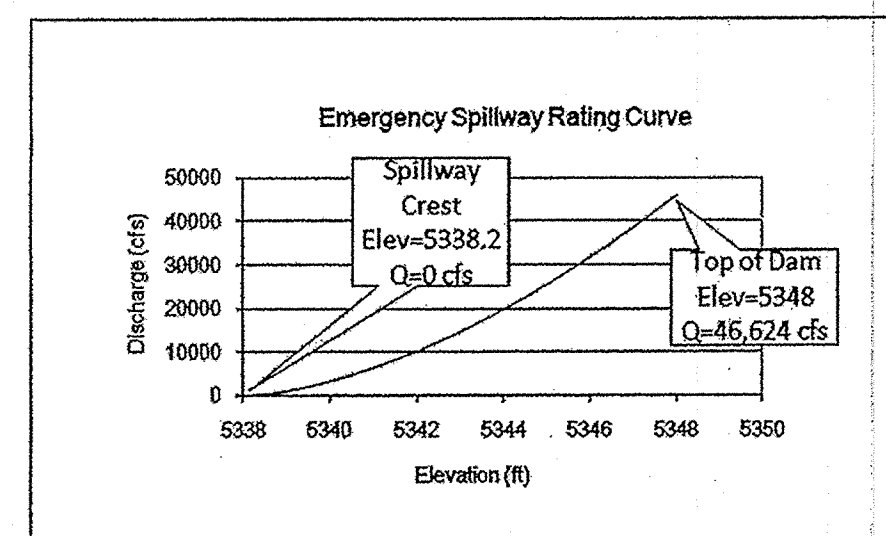
NAME OF DAM	BOCA NEGRA DETENTION DAM
TYPE OF DAM (MATERIAL)	HOMOGENEOUS EARTH EMBANKMENT
HAZARD POTENTIAL CLASSIFICATION	HIGH
MAX. HEIGHT ABOVE DOWNSTREAM TOE (FT)	26
MAX. LENGTH (FT)	3560
CREST WIDTH (FT)	17
SLOPE OF UPSTREAM FACE xH:1V	3 TO 1
SLOPE OF DOWNSTREAM FACE xH:1V	2.5 TO 1 & 3 TO 1
ELEVATION OF DAM CREST (FT)	5348
ELEVATION OF EMERGENCY SPILLWAY CREST (FT)	5338.2
EMERGENCY SPILLWAY WIDTH (FT)	419
1. PRIMARY PRINCIPAL SPILLWAY CONDUIT LENGTH (FT)	143
2. SECONDARY PRINCIPAL SPILLWAY CONDUIT LENGTH (FT)	145
1. UPSTREAM INVERT PRIMARY PRINCIPAL SPILLWAY (FT)	5318
2. UPSTREAM INVERT SECONDARY PRINCIPAL SPILLWAY (FT)	5323
1. DOWNSTREAM INVERT PRIMARY PRINCIPAL SPILLWAY (FT)	5311.9
2. DOWNSTREAM INVERT SECONDARY PRINCIPAL SPILLWAY (FT)	5321.8
FREEBOARD (FT)	10
RESIDUAL FREEBOARD (FT)	1.1
MAX EMERGENCY SPILLWAY DISCHARGE AT TOP OF DAM (CFS)	45903
1. PRIMARY PRINCIPAL SPILLWAY MATERIAL AND SIZE	48" x 48" CBC
2. SECONDARY PRINCIPAL SPILLWAY MATERIAL AND SIZE	48" x 48" CBC
1. MAX PRIMARY PRINCIPAL SPILLWAY DISCHARGE AT TOP OF DAM (CFS)	467
2. MAX SECONDARY PRINCIPAL SPILLWAY DISCHARGE AT TOP OF DAM (CFS)	254
1. LOCATION OF PRIMARY PRINCIPAL SPILLWAY	31.03722°N 107.66167°W
2. LOCATION OF SECONDARY PRINCIPAL SPILLWAY	31.03778°N 107.66167°W



REVISD TABLES AND GRAPHS



BOCA NEGRA DETENTION DAM CHARACTERISTICS			
ELEVATION (ft)	DISCHARGE (CFS)	STORAGE (AC-FT)	SURFACE AREA (ACRES)
5318=4' X 4' CBC (PRIMARY) SPILLWAY INV			
5319	0	0	0
5320	0	0	0
5321	0	0	0
5322	0	0	0
5323=4' X 4' CBC (SECONDARY) SPILLWAY INV	0	0	0.5
5324	18	0.9	0.8
5325	31	1.8	1.1
5326	40	3.0	1.3
5327	62	4.5	1.7
5328	106	6.5	2.2
5329	226	9.0	2.8
5330	430	12.2	3.6
5331	479	16.4	4.8
5332	513	21.6	5.7
5333	545	27.7	6.6
5334	574	34.7	7.3
5335	602	42.8	9.0
5336	629	52.3	9.9
5337	655	62.8	10.9
5337.94 = 100 YR FUTURE CONDITION	677	73.5	11.6
5337.98 = 100 YR INTERIM CONDITION	678	74.0	11.9
5338	679	74.2	11.9
5338.2=EMERGENCY SPILLWAY CREST ELEVATION	684	76.5	12.1
5339	1,438	86.3	12.6
5340	3,699	99.3	13.4
5341	6,830	113.1	14.3
5342	10,683	127.9	15.3
5343	15,192	143.6	16.0
5344	20,320	160.2	17.2
5345	26,006	178.2	18.7
5346	32,315	197.6	20.1
5347	39,208	218.4	21.5
5348=TOP OF DAM	46,624	240.6	22.9



I, Daniel S. Aguirre, P.E., state that I am a qualified professional engineer licensed in the State of New Mexico, that I have supervised the construction of Boca Negra Detention Dam and appurtenant structures and find them to be completed in accordance with the record construction drawings and specifications and are now in a satisfactory condition for acceptance.

Daniel S. Aguirre, P.E. NM 11955

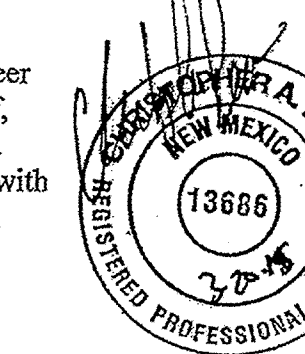
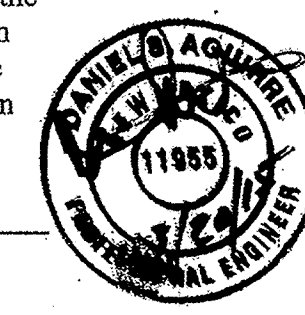
3/20/15

CERTIFICATE OF SUBSTANTIAL COMPLIANCE OF PLANS

I, Christopher Perea of the firm Wilson & Company, a Registered Professional Engineer in the State of New Mexico, do hereby certify, to the best of my knowledge and belief, that the infrastructure installed as part of this project has been inspected by me or by a qualified person under my direct supervision and has been constructed in accordance with the plans and specifications. The original design intent of the approved plans has been met, except as noted by me on the as-built construction drawing. This certification is based on site inspection by me or personnel under my direction.

Christopher Perea, P.E. NM 13686

3/20/15



State of New Mexico ss.

County of Santa Fe

I hereby certify that the accompanying Construction Drawings for Boca Negra Detention Dam and appurtenant structures has been duly examined by me and were duly accepted for filing on the 9th day of February, 2015.

State Engineer _____ Date _____

State of New Mexico ss.

County of Bernalillo

I, Jerry M. Londo, P.E., being first duly sworn, upon my oath, state that I am the Executive Engineer of the Albuquerque Metropolitan Arroyo Flood Control Authority, a governmental entity duly organized under the laws of the state of New Mexico, that the accompanying Construction Drawings, consisting of 55 sheets, for Boca Negra Detention Dam, were made under authority of the Board of Directors of said governmental entity and that, in their behalf, I have read and examined the statements and representations and all that is shown herein is done with their free consent and in accordance with their wishes and state that the same are true and correct to the best of my knowledge and belief.

Jerry M. Londo, P.E. Executive Engineer Date 2/9/2015

Subscribed and sworn to before me this 9th day of February, 2015.

Sanford Aguirre Notary Public My commission expires 10-09-2018

State of New Mexico ss.

County of Bernalillo

I, Daniel S. Aguirre, P.E. CEM, state that I am a qualified professional engineer licensed in the state of New Mexico, qualified in Civil engineering; that the accompanying Construction Drawings, consisting of 55 sheets, was prepared by me or under my supervision; that the accompanying Construction Drawings, consisting of 55 sheets, is in compliance with the Dam Design, Construction and Dam Safety Regulations (18.25.12 NMAC) and that the same are true and correct to the best of my knowledge and belief.

Daniel S. Aguirre, P.E. CEM License No. 11955

Date submitted 2/9/12

Subscribed and sworn to before me this 9th day of February, 2015.

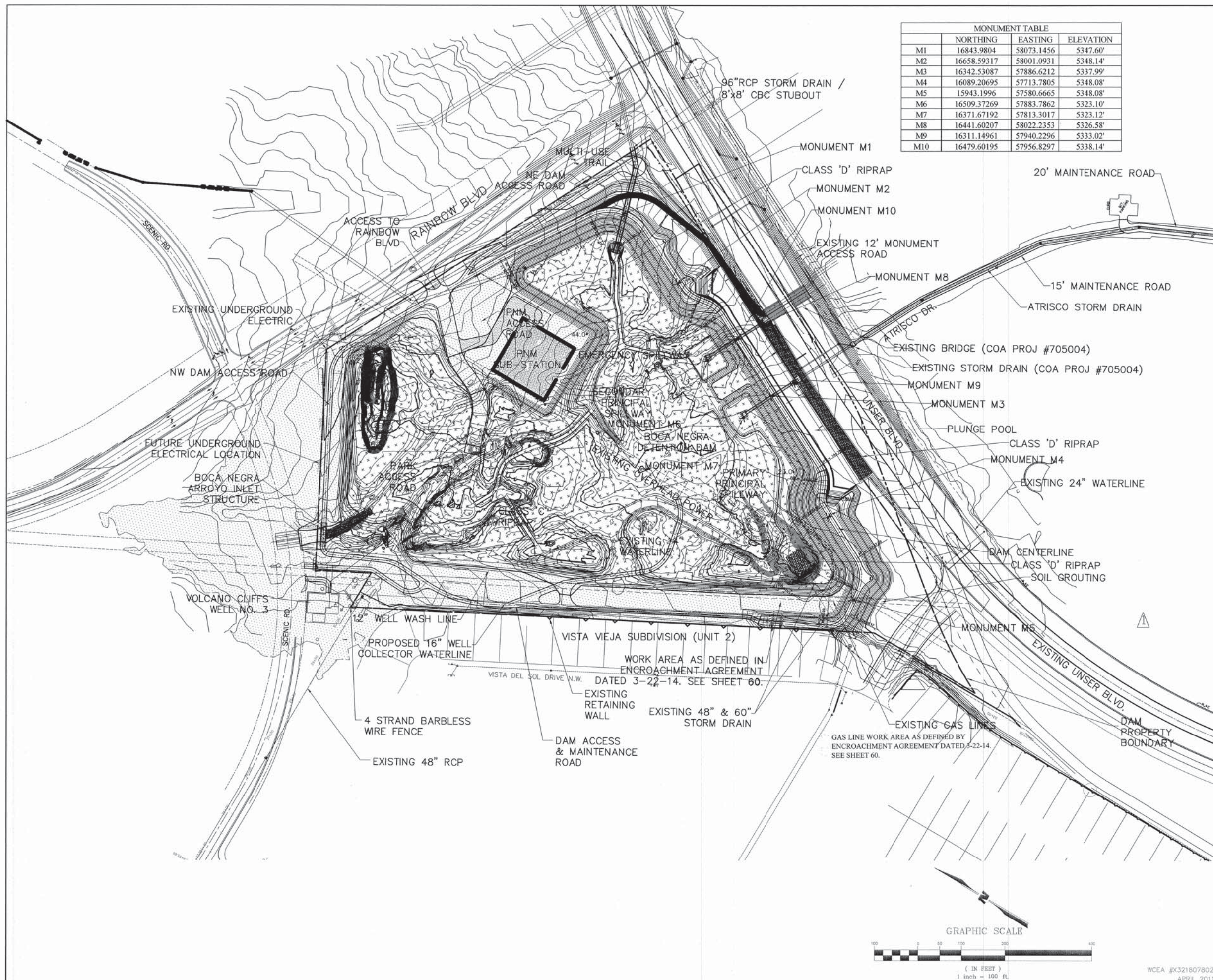
Sanford Aguirre Notary Public My commission expires 10-09-12

DRB# 1002962

WILSON & COMPANY
4900 LANG AVENUE, NE
SUITE 100
ALBUQUERQUE, NEW MEXICO
87109
(505) 348-4000

RECORD DRAWING
DATE 03/15

REV	SHEETS	CITY ENGINEER	APPROVALS	DATE	USER DEPARTMENT	DATE	USER DEPARTMENT	DATE
Δ			ORC Chairman					
Δ			Transportation					
			Water/Wastewater					
			Hydrology					
			AMAFCA					
ENGINEERS STAMP & SIGNATURE				APPROVED FOR CONSTRUCTION		*****		
				City Engineer		Date		
				AMAFCA Project No.		Sheet		
				City Project No.		1R OF 62		



MONUMENT TABLE			
	NORTHING	EASTING	ELEVATION
M1	16843.9804	58073.1456	5347.60'
M2	16658.59317	58001.0931	5348.14'
M3	16342.53087	57886.6212	5337.99'
M4	16089.20695	57713.7805	5348.08'
M5	15943.1996	57580.6665	5348.08'
M6	16509.37269	57883.7862	5323.10'
M7	16371.67192	57813.3017	5323.12'
M8	16441.60207	58022.2353	5326.58'
M9	16311.14961	57940.2296	5333.02'
M10	16479.60195	57956.8297	5338.14'

LEGEND:



LIMITS OF 100 YR EVENT



LIMITS - HIGH WATER LINE
ELEV = 5348.00

AS-BUILT MONUMENT
LOCATION[illegible]

RECORD DRAWING
DATE 10-14



ALBUQUERQUE METROPOLITAN
ARROYO FLOOD CONTROL
AUTHORITY
DAM BID LOT

OVERALL LAYOUT PLAN

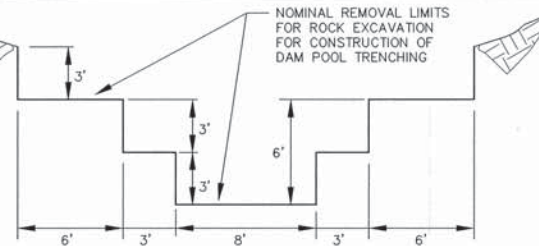
Design Review Committee	City Engineer Approval	Lost Design Update	Mo. /Day/ Yr.	Mo. /Day/ Yr.

02	City Project No.	781181
011		

Zone Map No.
D- 9/10

Sheet
8R OF ~~55~~ 62

WILSON
& COMPANY

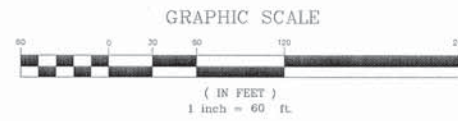


DAM POOL TRENCH
ROCK EXCAVATION
SECTION DETAIL
SCALE: 1" = 5'
(SEE ROCK EXCAVATION FOR DAM POOL
TRENCHING NOTES THIS SHEET)

- NOTE:
- 1) THE UPPER 12" OF THE ENTIRE DAM FOUNDATION SHALL BE COMPACTED TO 95% MIN DENSITY PER ASTM-D-1557.
 - 2) CONTRACTOR SHALL OVEREXCAVATE AND RECOMPACT THE MATERIAL WITHIN 100 FEET OF THE UPSTREAM TOE OF THE EMBANKMENT TO A DEPTH OF 2 FEET. IF ROCK IS ENCOUNTERED, THE CONTRACTOR SHALL STOP AND IS NOT REQUIRED TO EXCAVATE BELOW THE ROCK SURFACE.
 - 3) CONTRACTOR SHALL NOT PERFORM ROCK EXCAVATION WITHIN 50' H.P. GAS LINE EASEMENT. NO VIBRATORY COMPACTION WILL BE ALLOWED AND NO LOADS GREATER THAN HS-20 ALLOWED OVER H.P. GAS LINES. CONTRACTOR SHALL COORDINATE WITH NM GAS PRIOR TO ANY OPERATIONS WITHIN EASEMENT.

- FOUNDATION TREATMENT AREA
- OVER EXCAVATION AREA

- ROCK EXCAVATION FOR DAM POOL TRENCHING NOTES:
- 1) CONTRACTOR SHALL ATTEMPT TO REMOVE ROCK TO MEET THE LINES AND GRADES OF THE NOMINAL REMOVAL LIMITS AS SHOWN IN THE 'DAM POOL TRENCH ROCK EXCAVATION SECTION DETAIL', THIS SHEET. PAYMENT WILL BE MADE FOR ACTUAL ROCK REMOVAL AS APPROVED BY THE PROJECT MANAGER. IT IS UNDERSTOOD THAT THE ACTUAL SURFACE MAY VARY DUE TO THE ROCK FRACTURING. THE ALIGNMENT OF THE TRENCHES AND THE TRENCH CROSS-SECTION MAY BE MODIFIED IN THE FIELD BY DIRECTION OF THE PROJECT MANAGER.
 - 2) LOOSE ROCKS IN THE AREAS OUTSIDE OF THE NOMINAL REMOVAL LIMITS MAY BE LEFT IN PLACE IF THEY ARE LOWER THAN FINISHED GRADE AND ARE LEFT IN A STABLE CONDITION. ALL ROCK OVERHANG SHALL BE REMOVED AS DIRECTED BY THE PROJECT MANAGER. THE DAM POOL TRENCHES DO NOT REQUIRE WASHING OF THE ROCK SURFACE OR GROUTING OF CRACKS AND IRREGULARITIES.
 - 3) DAM POOL TRENCHES REQUIRING ROCK EXCAVATION SHALL BE PAID AS:
ROCK EXCAVATION - TRENCHING.



RECORD DRAWING
DATE 10/14

AS-BUILT INFORMATION			
CONTRACTOR	SKILL BROTHERS	DATE	10/14
DRAWN BY	WCD	DATE	10/14
CHECKED BY	WCI	DATE	10/14
APPROVED BY	WCI	DATE	10/14
REVISIONS	MICRO-FILM INFORMATION		
NO.	DATE	DATE	DATE

BENCH MARKS	
THE STATION IS A 3.1/2" ALUMINUM CAP SET FLUSH IN THE LAVA OUTCROP, AND IS STAMPED "ACS 8-C10, 1986". (NAD 1927). E= 361860.83, N= 1521476.37 LAT 35° 10' 51.940" LONG 106° 42' 44.230" TRUNCATED: E=-300,000, N=-1,500,000 COMBINED GRID TO GRID = 0.999664705 ELEVATION = 5392.936 FT. (NAVD 88)	

SURVEY INFORMATION	
FIELD NOTES	DATE
NO.	BY

ENGINEER'S SEAL

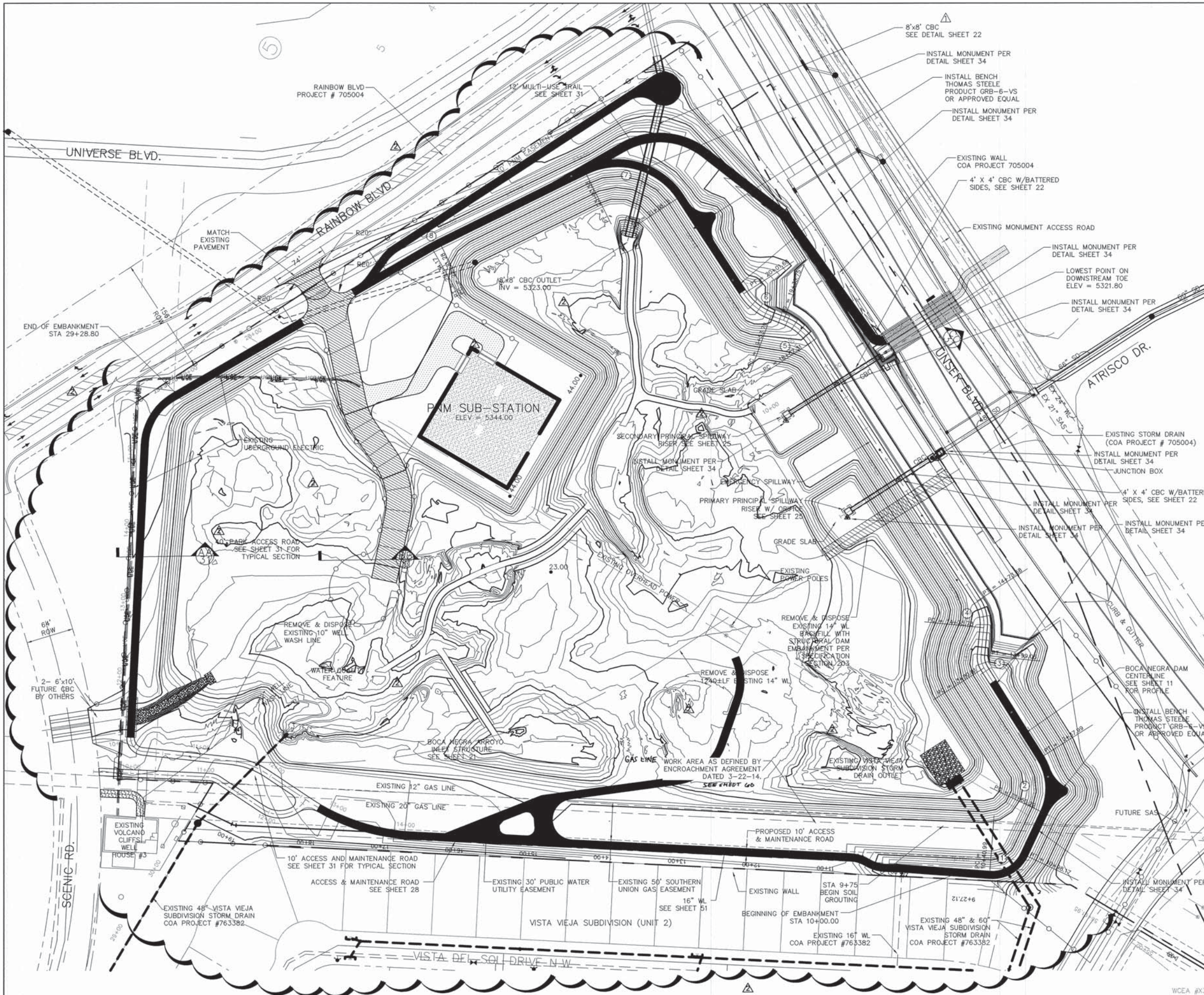
DANIEL S. AGUIRRE
REGISTERED PROFESSIONAL ENGINEER
NEW MEXICO
11955

TDS	REVISIONS	BY
11-20-14	OVER EXCAVATION AREA REVISED	DSA
01-7-14	ACCESS/MAINTENANCE ROAD REV	DSA
08-24-13	ROCK TRENCH DETAIL/NOTES REV	DSA
08-11-13	GRADING REVISIONS	DSA
01-28-13	OVEREX/FOUND. TREATMENT LIMITS	DMD
11-27-12	OVEREX/FOUND. TREATMENT LIMITS	DMD
NO.	DATE	REVISIONS

ALBUQUERQUE METROPOLITAN
ARROYO FLOOD CONTROL
AUTHORITY
DAM BID LOT
GRADING PLAN

Design Review Committee	City Engineer Approval	Mo./Day/Yr.	Mo./Day/Yr.
City Project No. 781181	Zone Map No. D- 9/10	Sheet 9R OF 55	67

WILSON & COMPANY



MAINTENANCE ROAD PAVING SCHEDULE

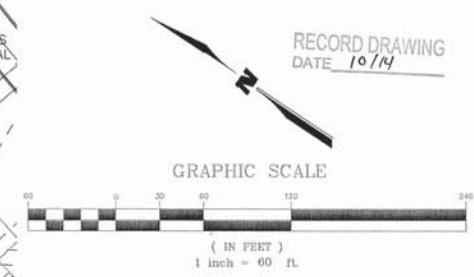
	34' ACCESS & MAINTENANCE ROAD SEE ROADWAY TYPICAL SECTIONS SHEET 31
	12' TRAIL SEE MULTI-USE TRAIL SHEET 31
	10' MAINTENANCE ROAD SEE ROADWAY TYPICAL SECTIONS SHEET 31
	16' BASE COURSE ENTRANCE ROAD
	SOIL CEMENT

**CL CURVE DATA FOR DAM CENTERLINE
SEE SHEET 1-11 FOR PROFILE**

① Δ = 68°45'58" R = 47.64' T = 32.60' L = 57.17'	② Δ = 57°29'44" R = 77.50' T = 42.51' L = 77.77'
③ Δ = 38°00'09" R = 27.50' T = 9.47' L = 18.24'	④ Δ = 38°28'48" R = 56.50' T = 19.72' L = 37.95'
⑤ Δ = 37°00'24" R = 75.00' T = 25.10' L = 48.44'	⑥ Δ = 36°34'20" R = 75.00' T = 24.78' L = 47.87'
⑦ Δ = 83°17'36" R = 100.00' T = 88.93' L = 145.37'	⑧ Δ = 3°04'33" R = 200.00' T = 6.45' L = 12.89'

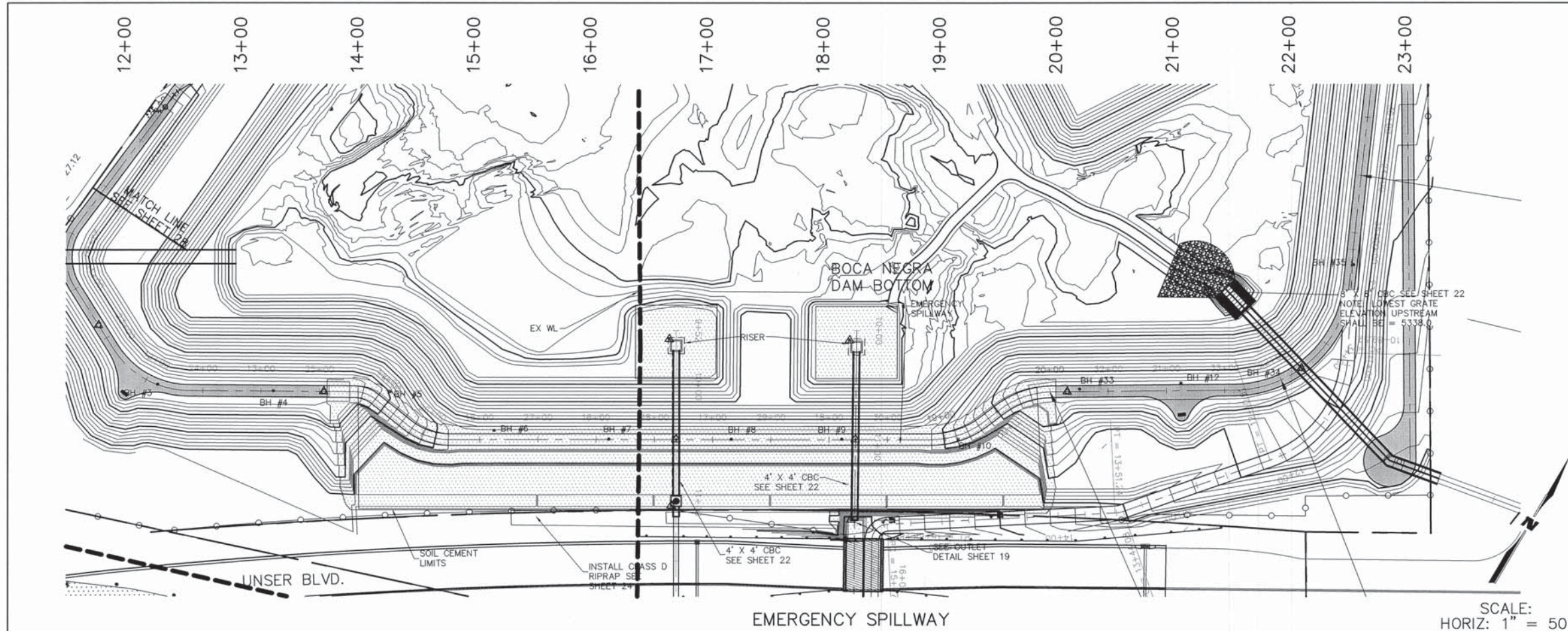
NOTE:
1) MONUMENTS TO BE INSTALLED ACCORDING TO AMAFCA STANDARD DETAIL AND SPECIFICATION SHEET 34.
2) ~~NM GAS-GO REPRESENTATIVE MUST BE PRESENT DURING CHEMICAL GROUTING OPERATIONS.~~
3) CARSONITE MARKERS TO BE INSTALLED ALONG EACH H.P. GAS LINE EVERY 500 FT. MARKER TO BE FURNISHED BY NM GAS. (MIN. 12 MARKERS)

NOTE:
SEE SHEET 32 "FENCING & REVEGETATION PLAN FOR FENCING, GATE AND BOLLARD INFORMATION.



ALBUQUERQUE METROPOLITAN ARROYO FLOOD CONTROL AUTHORITY	
DAM BID LOT	
SITE PLAN	
Design Review Committee	City Engineer Approval
City Project No. 781181	Zone Map No. D- 9/10
Sheet 10R OF 56 62	

AS-BUILT INFORMATION	
CONTRACTOR: JALLS BROTHERS	DATE: 10/14
DESIGNED BY: WILSON	DATE: 10/14
CHECKED BY: WCI	DATE: 10/14
APPROVED BY: WCI	DATE: 10/14
MICRO-FILM INFORMATION	
RECORDED BY: WCI	DATE: 10/14
THE STATION IS A 3 1/2" ALUMINUM CAP SET FLUSH IN THE LAVA OUTCROP, AND IS STAMPED "ACS 8-C10, 1986". (NAD 1927). E = 361860.83, N = 1521476.37 LAT 35° 10' 51.940" LONG 106° 42' 44.230" TRUNCATED: E = -300,000, N = -1,500,000 COMBINED GRID TO GRID = 0.999664705 ELEVATION = 5392.936 FT. (NAVD 88)	
BENCH MARKS	
THE STATION IS A 3 1/2" ALUMINUM CAP SET FLUSH IN THE LAVA OUTCROP, AND IS STAMPED "ACS 8-C10, 1986". (NAD 1927). E = 361860.83, N = 1521476.37 LAT 35° 10' 51.940" LONG 106° 42' 44.230" TRUNCATED: E = -300,000, N = -1,500,000 COMBINED GRID TO GRID = 0.999664705 ELEVATION = 5392.936 FT. (NAVD 88)	
SURVEY INFORMATION	
FIELD NOTES	DATE: 10/14
NO.	BY
ENGINEER'S SEAL	
DSA	BY
01-26-13 GRADING REVISIONS	UPDATE NOTE
3-2-12	REVISIONS
WILSON & COMPANY, ENGINEERS & ARCHITECTS	
DESIGNED BY: JSD	DATE: APRIL 2011
DRAWN BY: STAFF	DATE: APRIL 2011
CHECKED BY: DSA	DATE: APRIL 2011



NOTES:

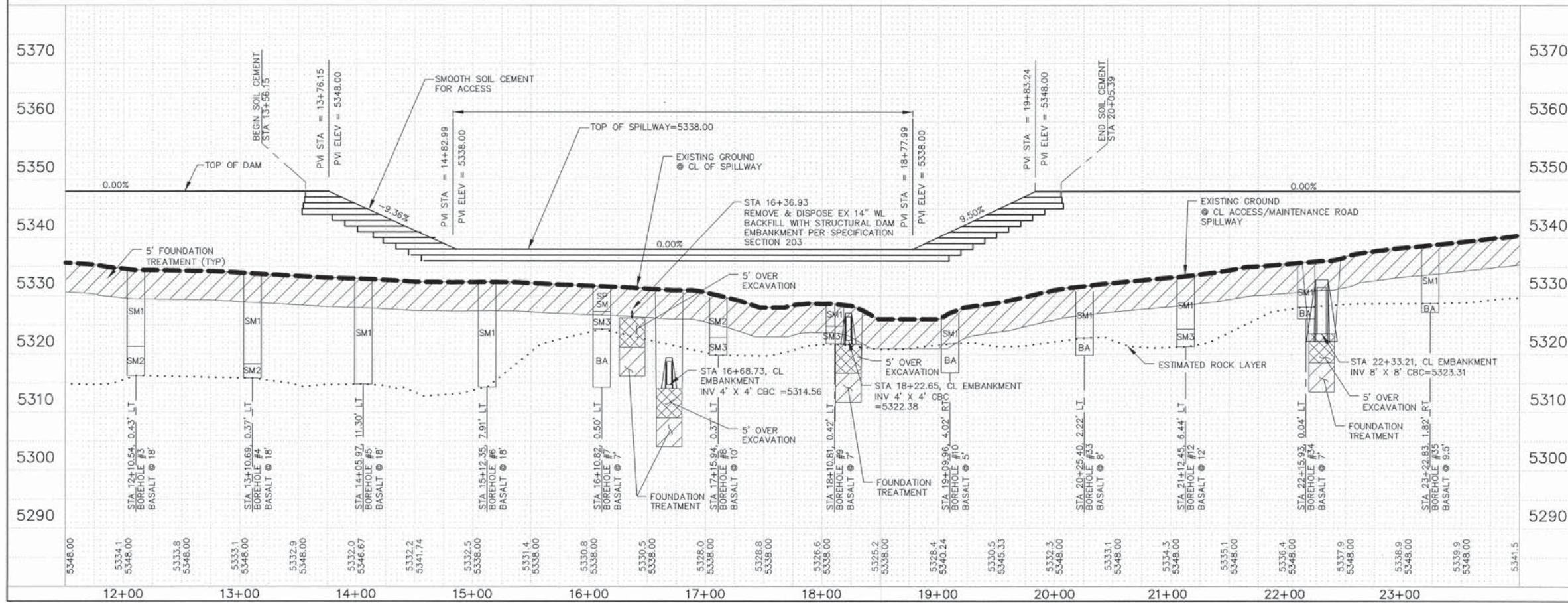
1. SEE SHEETS 25 & 26 FOR RISER DETAILS.
2. EMERGENCY SPILLWAY LIFTS SEE SHEETS 14 THRU 16.

SOIL TYPE LEGEND (FOR CLARIFICATION)

BA	BASALT
SM1	SILTY SAND
SM2	SILTY SAND AND GRAVEL
SM3	SILTY SAND WITH GRAVEL AND COBBLES
SM4	SLIGHTLY SILTY SAND
SP SM	SAND

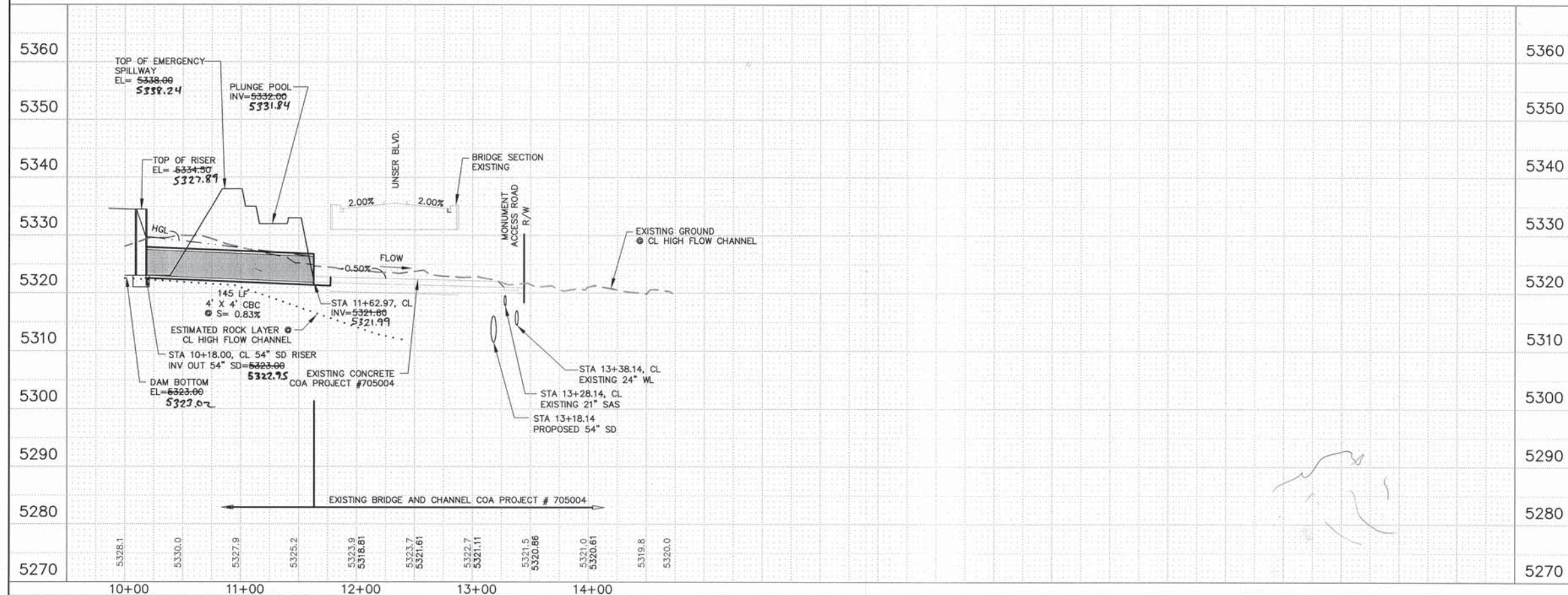
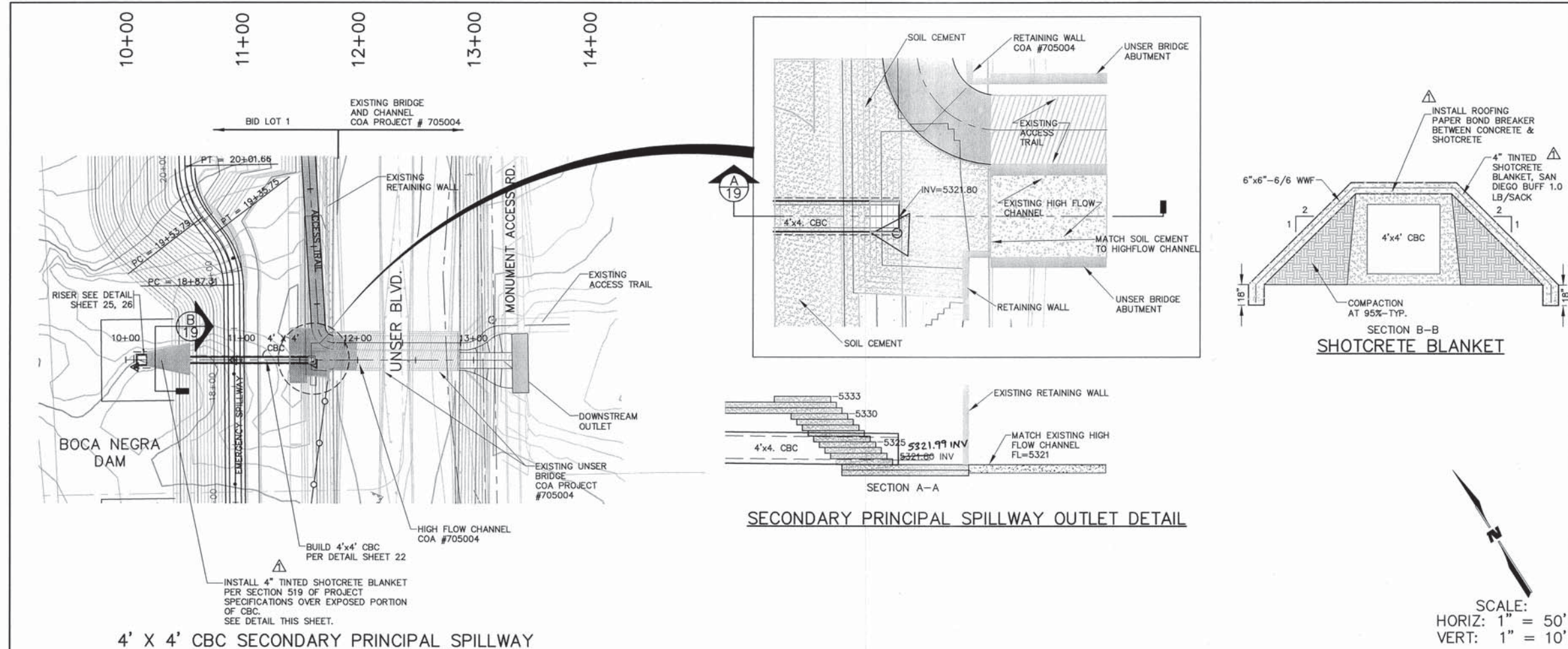
REF: GEOTECHNICAL ENGINEERING ANALYSIS REPORT FOR BOCA NEGRA DETENTION DAM - APRIL 2011

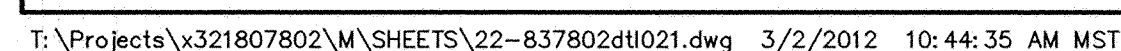
SCALE:
HORIZ: 1" = 50'
VERT: 1" = 10'

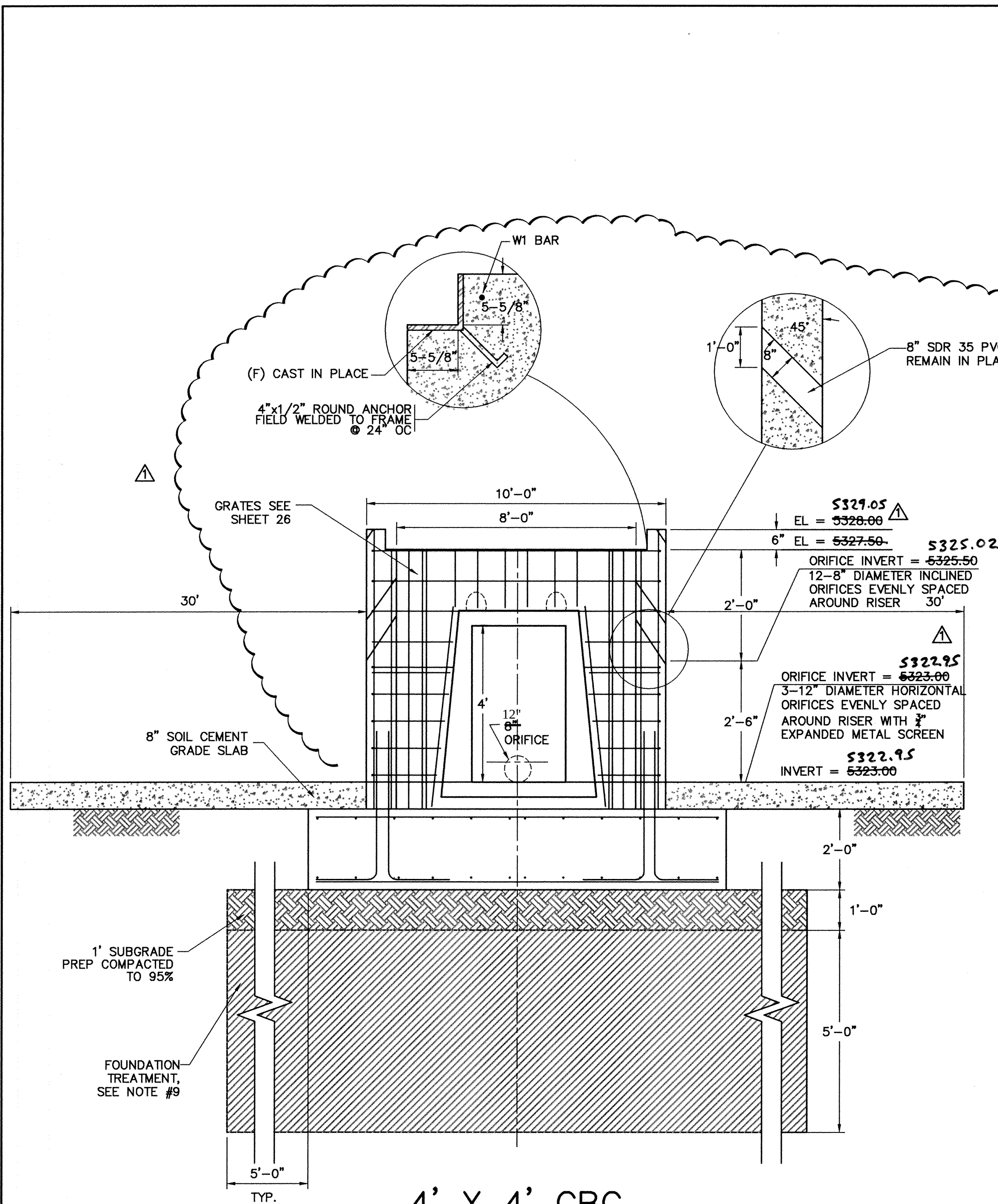


RECORD DRAWING
DATE 10/14

AS-BUILT INFORMATION		BENCH MARKS		SURVEY INFORMATION		ENGINEER'S SEAL		
CONTRACT NO.	1614	THE STATION IS A 3 1/2" ALUMINUM CAP SET FLUSH IN THE LAVA OUTCROP, AND IS STAMPED "ACS 8-C10, 1986" (NAD 1927). E = 361860.83, N = 1521476.37 TRUNCATED: E = -300,000, N = -1,500,000 COMBINED GROUND TO GRID = 0.999664705 ELEVATION = 5392.936 FT. (NAVD 88)	DATE	10/14	DATE	10/14	DATE	10/14
STANDARD BY	WILSON	DATE	10/14	DATE	10/14	DATE	10/14	
APPROVED BY	WILSON	DATE	10/14	DATE	10/14	DATE	10/14	
DESIGNED BY	WILSON	DATE	10/14	DATE	10/14	DATE	10/14	
DRAWN BY	WILSON	DATE	10/14	DATE	10/14	DATE	10/14	
CHECKED BY	WILSON	DATE	10/14	DATE	10/14	DATE	10/14	
RECORDED BY	WILSON	DATE	10/14	DATE	10/14	DATE	10/14	
DONALD M. DUNNAN NEW MEXICO 17616 LICENSED PROFESSIONAL ENGINEER		REVISIONS		REVISIONS		REVISIONS		
NO.		DATE		DATE		DATE		
1		10/14		10/14		10/14		
2		10/14		10/14		10/14		
3		10/14		10/14		10/14		
4		10/14		10/14		10/14		
5		10/14		10/14		10/14		
6		10/14		10/14		10/14		
7		10/14		10/14		10/14		
8		10/14		10/14		10/14		
9		10/14		10/14		10/14		
10		10/14		10/14		10/14		
11		10/14		10/14		10/14		
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13		10/14		10/14		10/14		
14		10/14		10/14		10/14		
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16		10/14		10/14		10/14		
17		10/14		10/14		10/14		
18		10/14		10/14		10/14		
19		10/14		10/14		10/14		
20		10/14		10/14		10/14		
21		10/14		10/14		10/14		
22		10/14		10/14		10/14		
23		10/14		10/14		10/14		
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26		10/14		10/14		10/14		
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29		10/14		10/14		10/14		
30		10/14		10/14		10/14		
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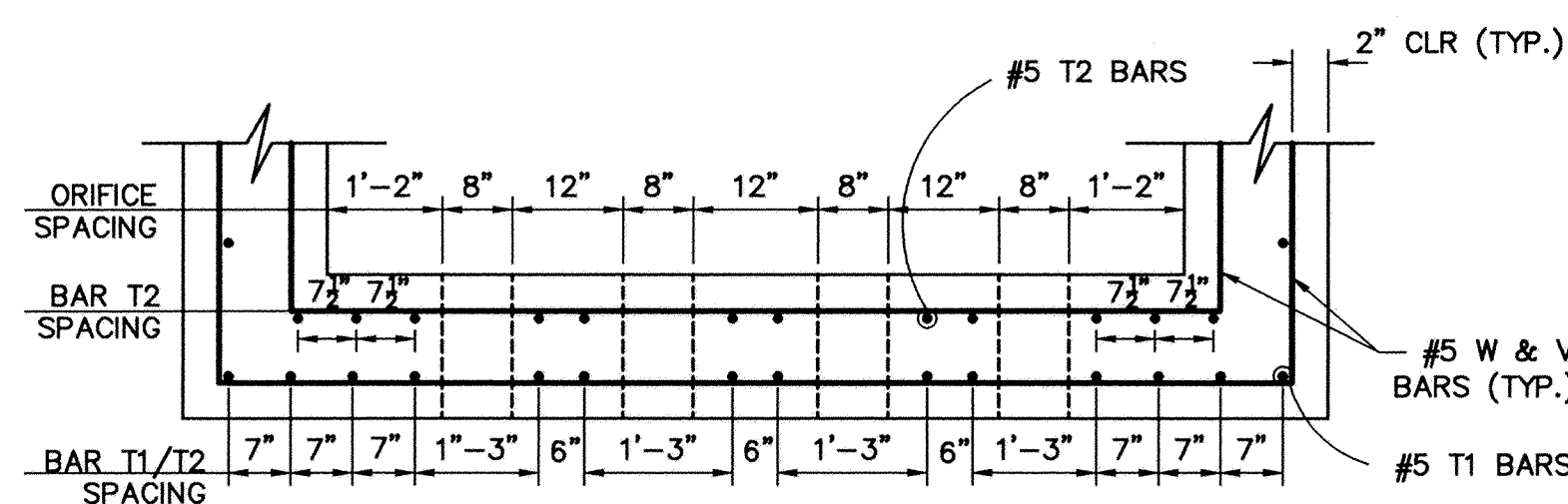
[illegible]





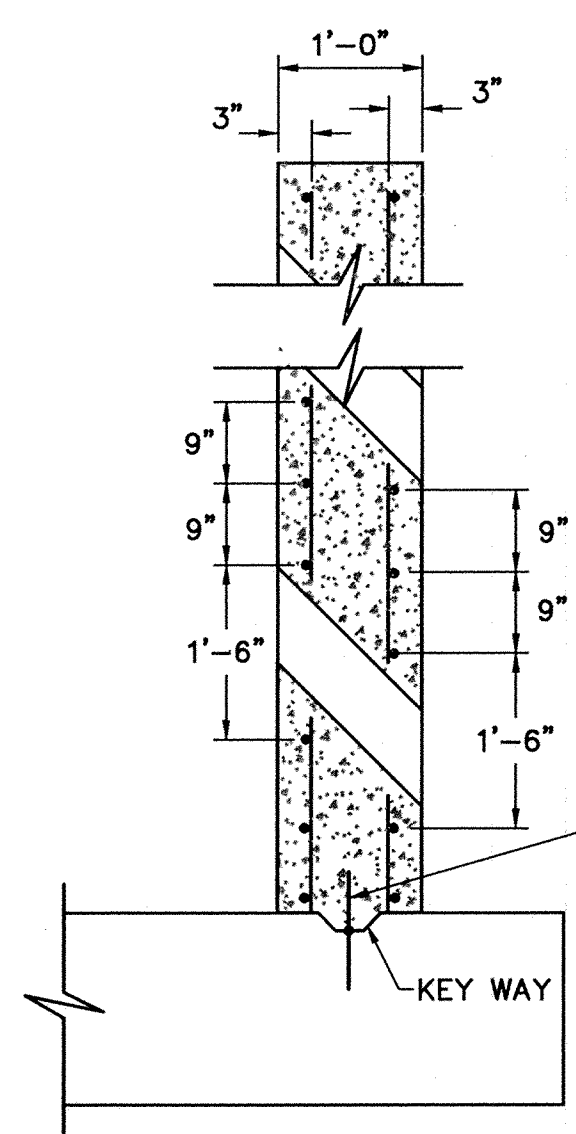
4' X 4' CBC SECONDARY SPILLWAY RISER

NTS
SEE PRIMARY SPILLWAY RISER FOR
REINFORCING DETAILS NOT SHOWN



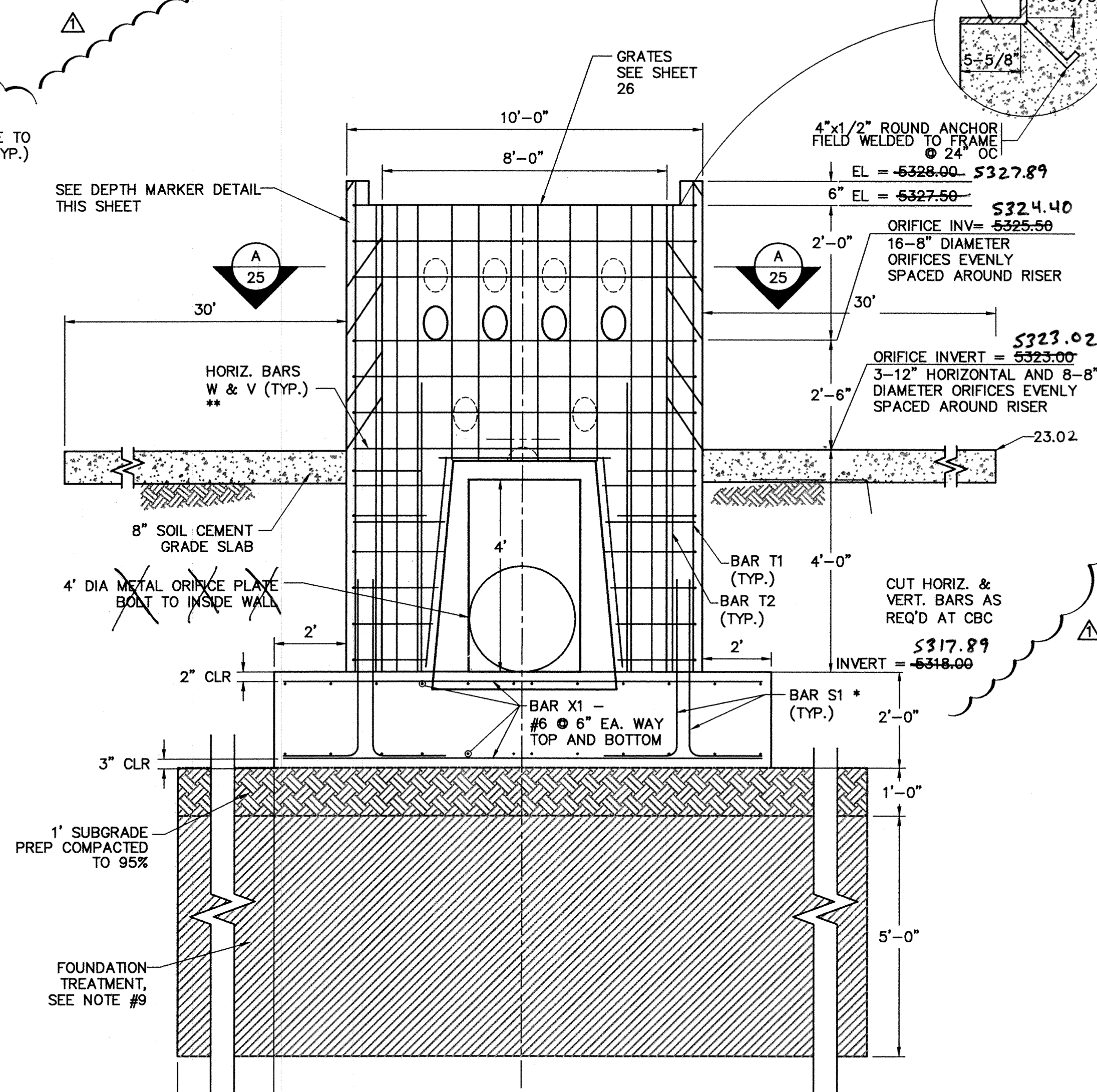
A RISER SECTION

NTS



WALL DETAIL

NTS



4' X 4' CBC PRIMARY SPILLWAY RISER

NTS

* BARS S1 - MATCH VERTICAL WALL BAR
SIZE AND SPACING

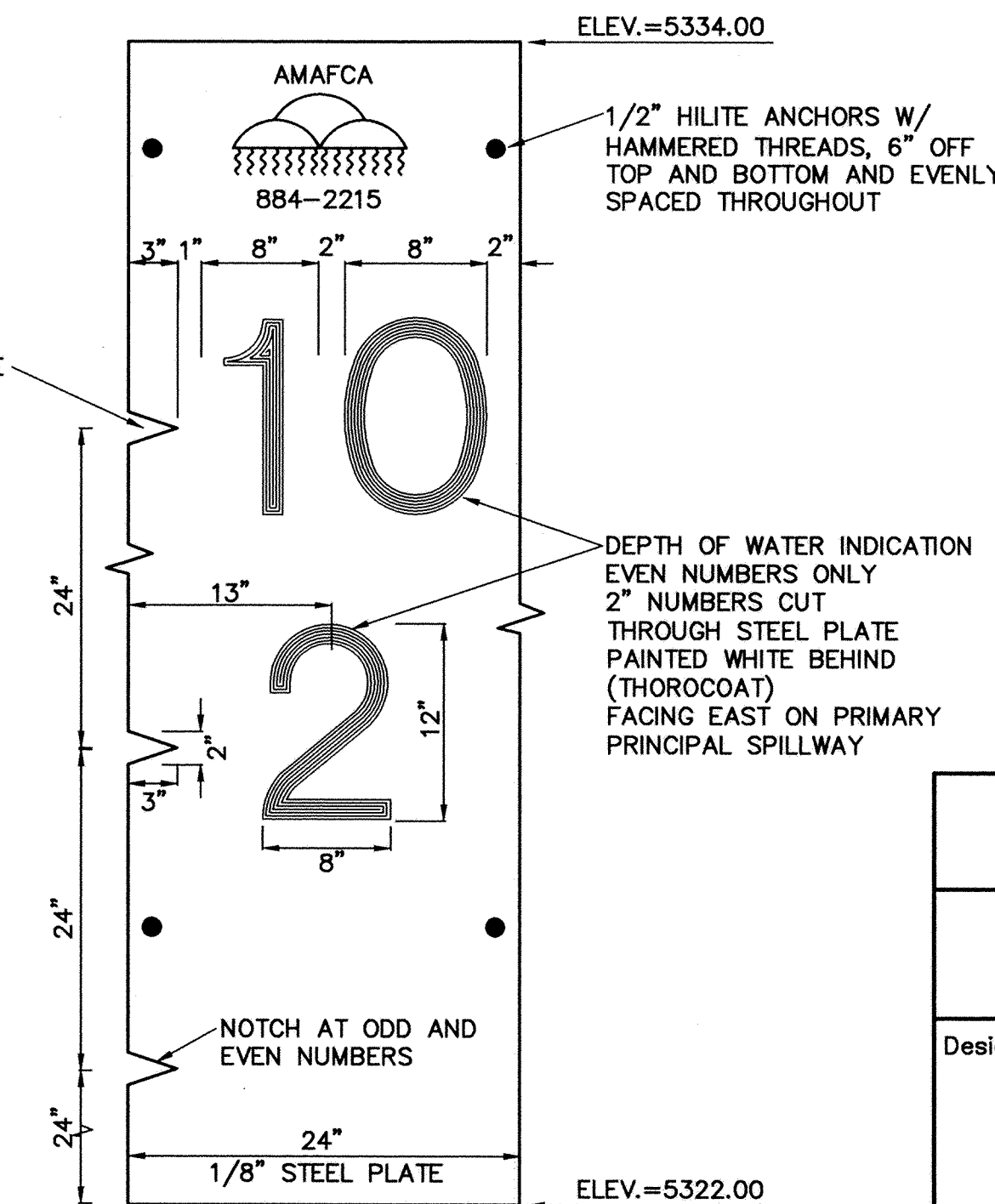
** SPACE HORIZ. BARS AT 8" MAX. O.C.,
EXCEPT BTN ORIFICES PLACE 3 EQUAL
SPACED BARS AS SHOWN

SEE SHEET 26 FOR REINFORCING DETAILS

COVER 12" HORIZONTAL ORIFICES WITH
3" EXPANDED METAL SCREEN.

PVC WATERSTOP
RIBBED WITH CENTERBULB
TYPE 4 DURAJOINT OR
APPROVED EQUAL

PAINTED WHITE
BEHIND
(THOROCOAT)



DEPTH MARKER DETAIL

WCEA #X321807802
APRIL 2011

GENERAL STRUCTURAL NOTES

- SPECIFICATIONS FOR CONSTRUCTION:** SPECIFICATION FOR BOCA NEGRA DETENTION DAM, 2011.
- CONCRETE:** PROVIDE 4000 PSI CONCRETE PER SECTION 509 AND APPLICABLE TECHNICAL SPECIFICATIONS. CHAMFER ALL EXPOSED EDGES OF STRUCTURES 3/4" UNLESS OTHERWISE NOTED.
- FINISHING CONCRETE SURFACES:** PAINT ALL EXPOSED CONCRETE SURFACES WITH TEXTURED THOROCOAT OR APPROVED EQUAL. OBTAIN ENGINEER'S APPROVAL OF COLOR PRIOR TO APPLICATION.
- REINFORCING BARS:** ASTM A615, GRADE 60. DIMENSIONS SHOWN REFER TO THE CENTERLINE OF BARS UNLESS OTHERWISE NOTED.
UNLESS OTHERWISE INDICATED, USE THE FOLLOWING MINIMUM LAP LENGTHS:
#4 BARS 1'-9"
#5 BARS 2'-2"
#6 BARS 2'-7"
- STRUCTURAL STEEL:** STEEL SECTIONS AND BARS: ASTM A 36
BOLTS, NUTS, & WASHERS: ASTM A 307
PLATES: ASTM A 283
RODS: ASTM A 36
- WELDING:** CONFORM TO AWS D1.1 WITH ELECTRODES CONFORMING TO AWS A5.1, E-70 SERIES. PROVIDE CERTIFIED WELDERS FOR ALL WELDING.
- SPILLWAY RISER ORIFICES:** SCHEDULE 40 PVC PIPE.
- JUNCTION BOX SAFETY LADDER:** PROVIDE LADDER USING GALVANIZED ASTM A36 STEEL AND CONFORMING TO OSHA REQUIREMENTS.
- RISER FOUNDATION PREPARATION:** OVER-EXCAVATE FOUNDATION TO A DEPTH OF 5 FEET AND FOR A DISTANCE OF 5 FEET LATERALLY BEYOND THE FOOTING PERIMETER AND DENSIFY THE EXPOSED SURFACES OF THE NATIVE SOILS. REPLACE OVER-EXCAVATED VOLUME WITH STRUCTURAL FILL IN ACCORDANCE WITH THE SPECIFICATIONS. IF BASALT IS ENCOUNTERED WITHIN 12 INCHES OF BOTTOM OF FOUNDATION, ROCK REMOVAL IS REQUIRED.
- SPECIAL INSPECTIONS:** PROVIDE ACCESS FOR OWNER OR OWNER'S REPRESENTATIVE TO MAKE SPECIAL INSPECTIONS OF CONCRETE AND REINFORCEMENT PLACEMENT, FIELD WELDING, AND EARTHWORK IN ACCORDANCE WITH SECTION 17 OF THE BUILDING CODE.
- ALL 8" AND 12" ORIFICES SHALL BE FORMED USING SDR 35 PVC PIPE.

DESIGN DATA

DESIGN SPECIFICATIONS: 2003 STATE OF NEW MEXICO COMMERCIAL BUILDING CODE (2003 INTERNATIONAL BUILDING CODE AS AMENDED).

LIVE LOAD: 10,000 LB VEHICLE LOAD.

WIND: BASIC WIND SPEED = 90 MPH, $I_w = 1.00$, BLDG CATEGORY II, EXPOSURE C, DESIGN WIND PRES. = 18 PSF.

SEISMIC: $I_e = 1.00$, SEISMIC USE GROUP I, $S_s = 0.60$, $S_i = 0.15$, SITE CLASS D, $S_{ds} = 0.53$, $S_{d1} = 0.22$, SEISMIC DESIGN CATEGORY D.

DESIGN STRESSES:
REINFORCED CONCRETE: $f'_c = 4000$ PSI (28 DAYS)
REINFORCING STEEL: $f_y = 60000$ PSI

ALLOWABLE SOIL BEARING PRESSURE:
1500 PSF (DL + LL)
2000 PSF (DL + LAT LOAD)

NOTE:
STEEL DETAILS:
SEE SHEET 26 FOR
REINFORCING DETAILS

ELEV.=5334.00
1/2" HILITE ANCHORS W/
HAMMERED THREADS, 6" OFF
TOP AND BOTTOM AND EVENLY
SPACED THROUGHOUT

DEPTH OF WATER INDICATION
EVEN NUMBERS ONLY
2" NUMBERS CUT
THROUGH STEEL PLATE
PAINTED WHITE BEHIND
(THOROCOAT)
FACING EAST ON PRIMARY
PRINCIPAL SPILLWAY

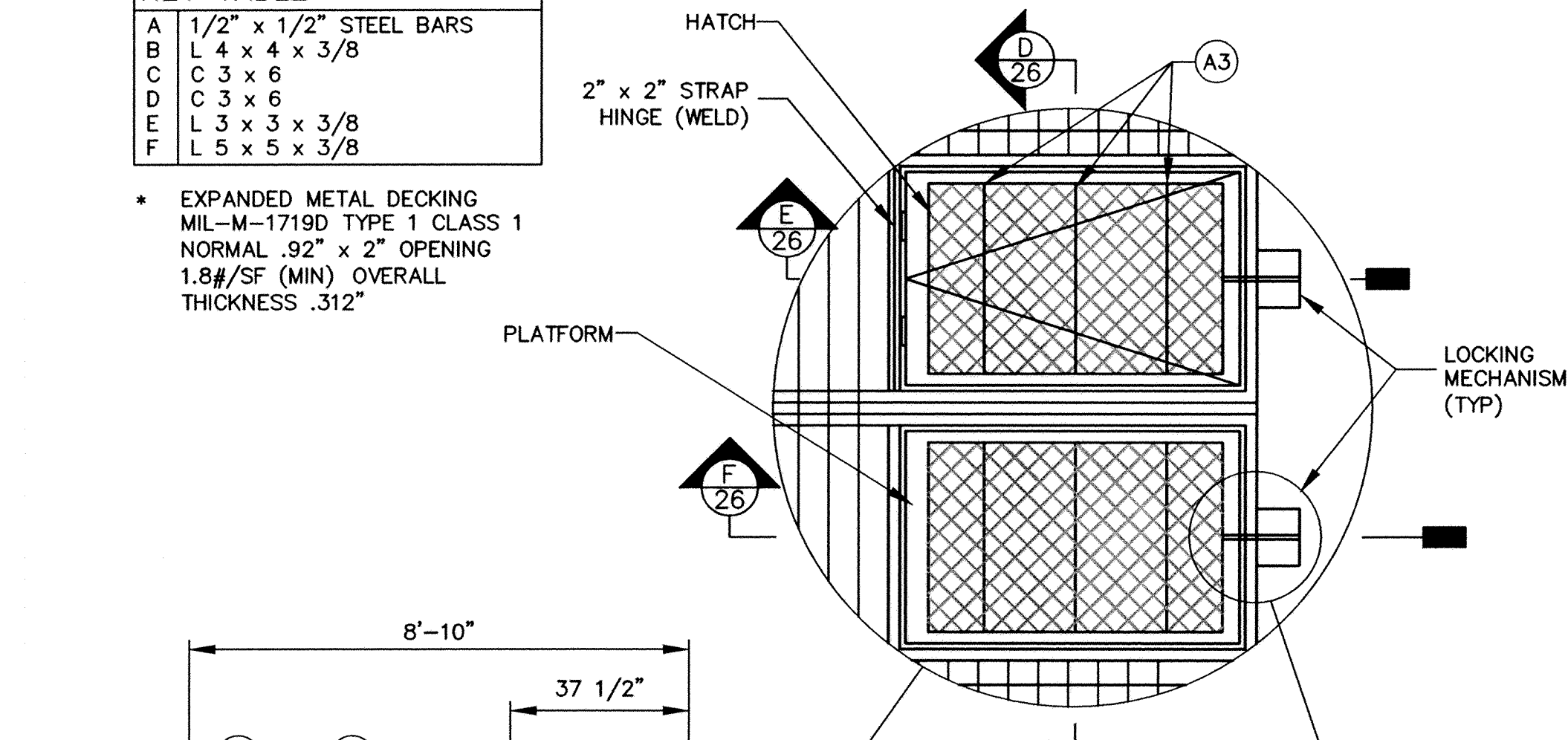
RECORD DRAWING
DATE 10/14

ALBUQUERQUE METROPOLITAN ARROYO FLOOD CONTROL AUTHORITY DAM BID LOT RISER DETAILS			
Design Review Committee	City Engineer Approval	Mo./Day/Yr.	Mo./Day/Yr.
City Project No. 781181	Zone Map No. D- 9/10	Sheet 25R OF 36	25R OF 36

WILSON
& COMPANY

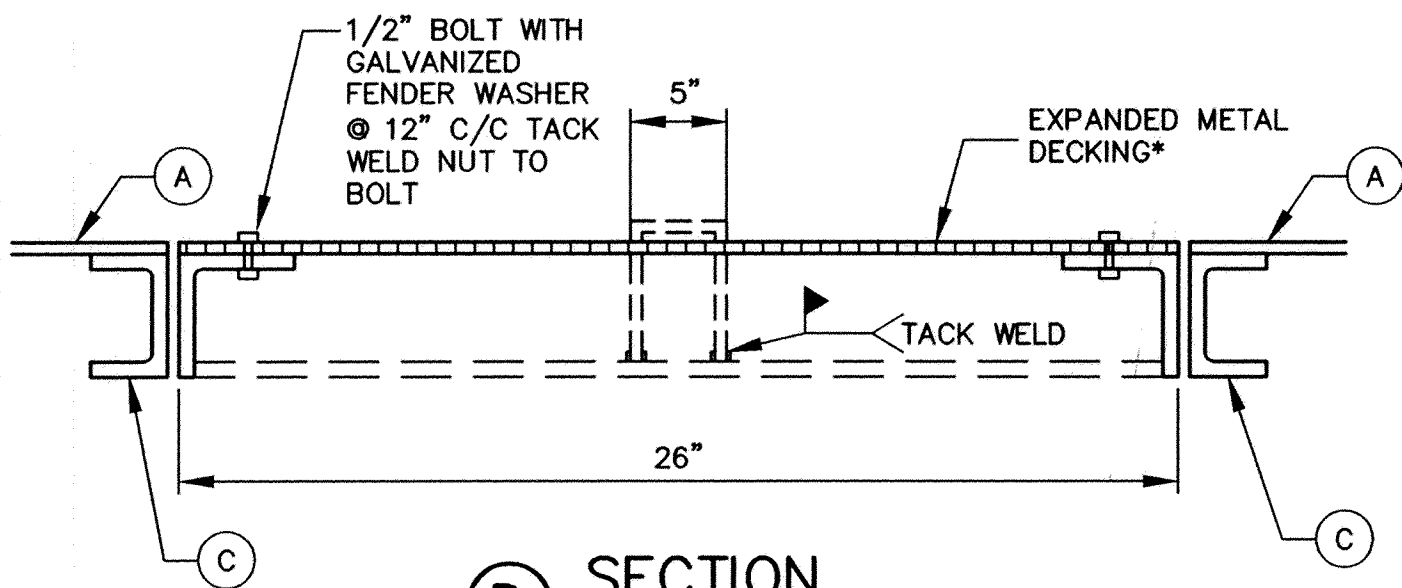
KEY TABLE	
A	1/2" x 1/2" STEEL BARS
B	L 4 x 4 x 3/8
C	C 3 x 6
D	C 3 x 6
E	L 3 x 3 x 3/8
F	L 5 x 5 x 3/8

* EXPANDED METAL DECKING
MIL-M-1719D TYPE 1 CLASS 1
NORMAL .92" x 2" OPENING
1.8#/SF (MIN) OVERALL
THICKNESS .312"



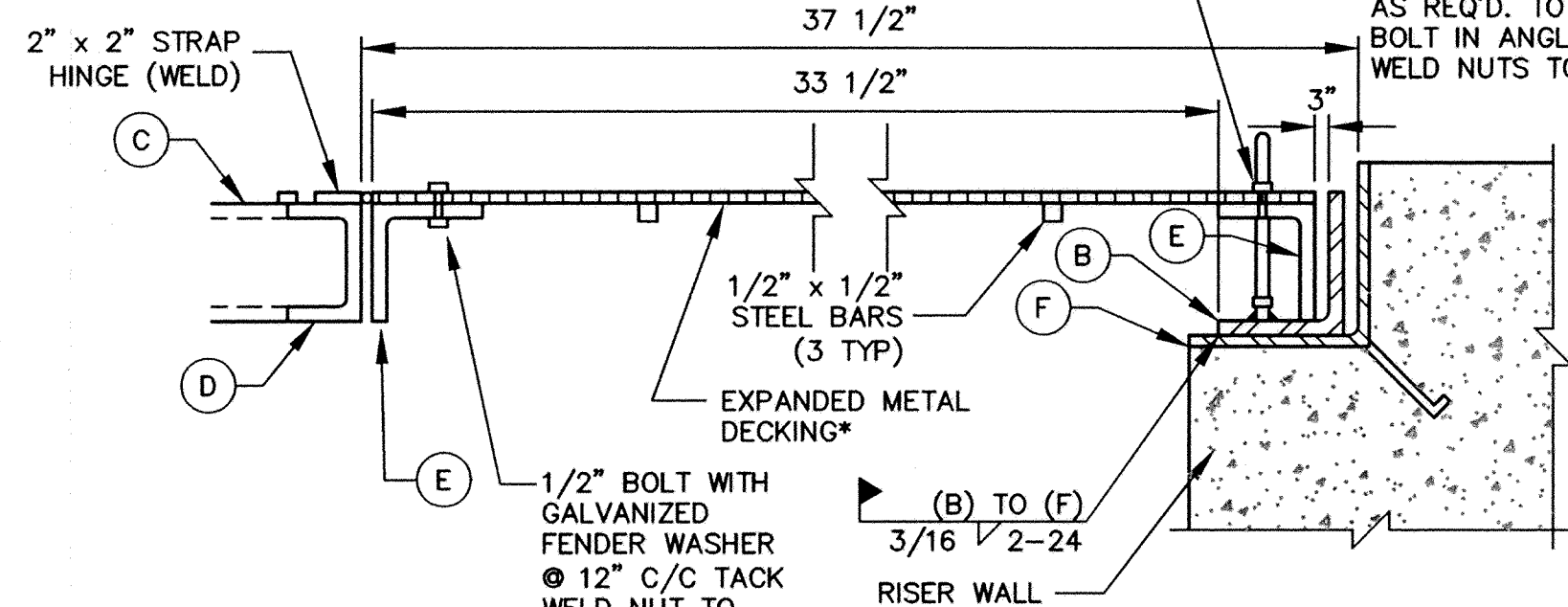
RISER GRATE-PLAN

NTS



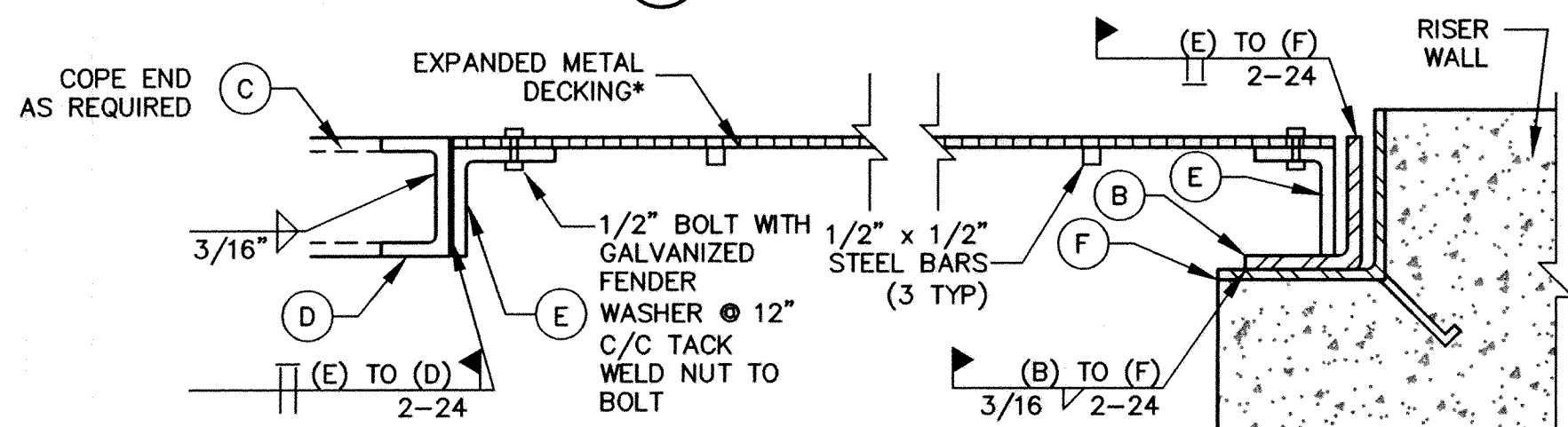
D SECTION

NTS



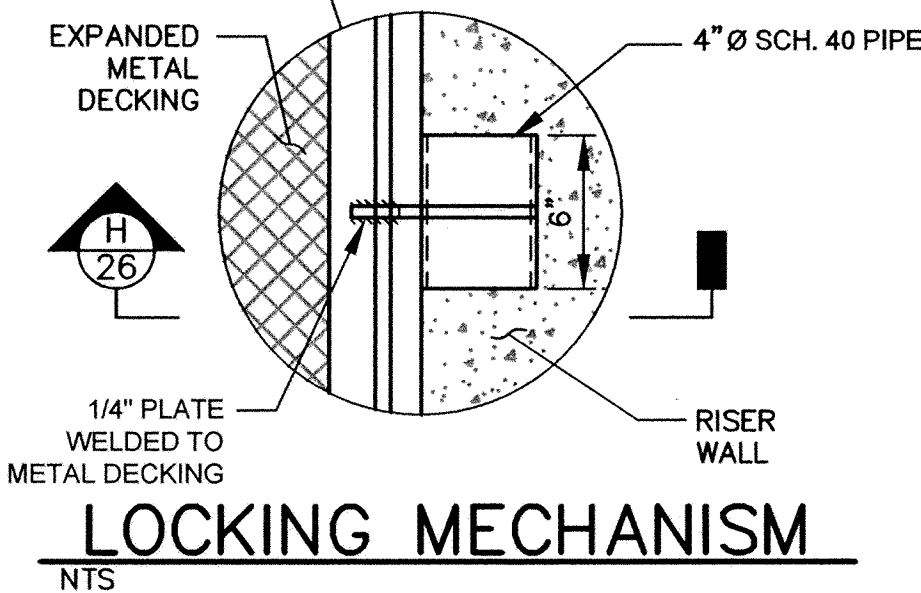
E SECTION

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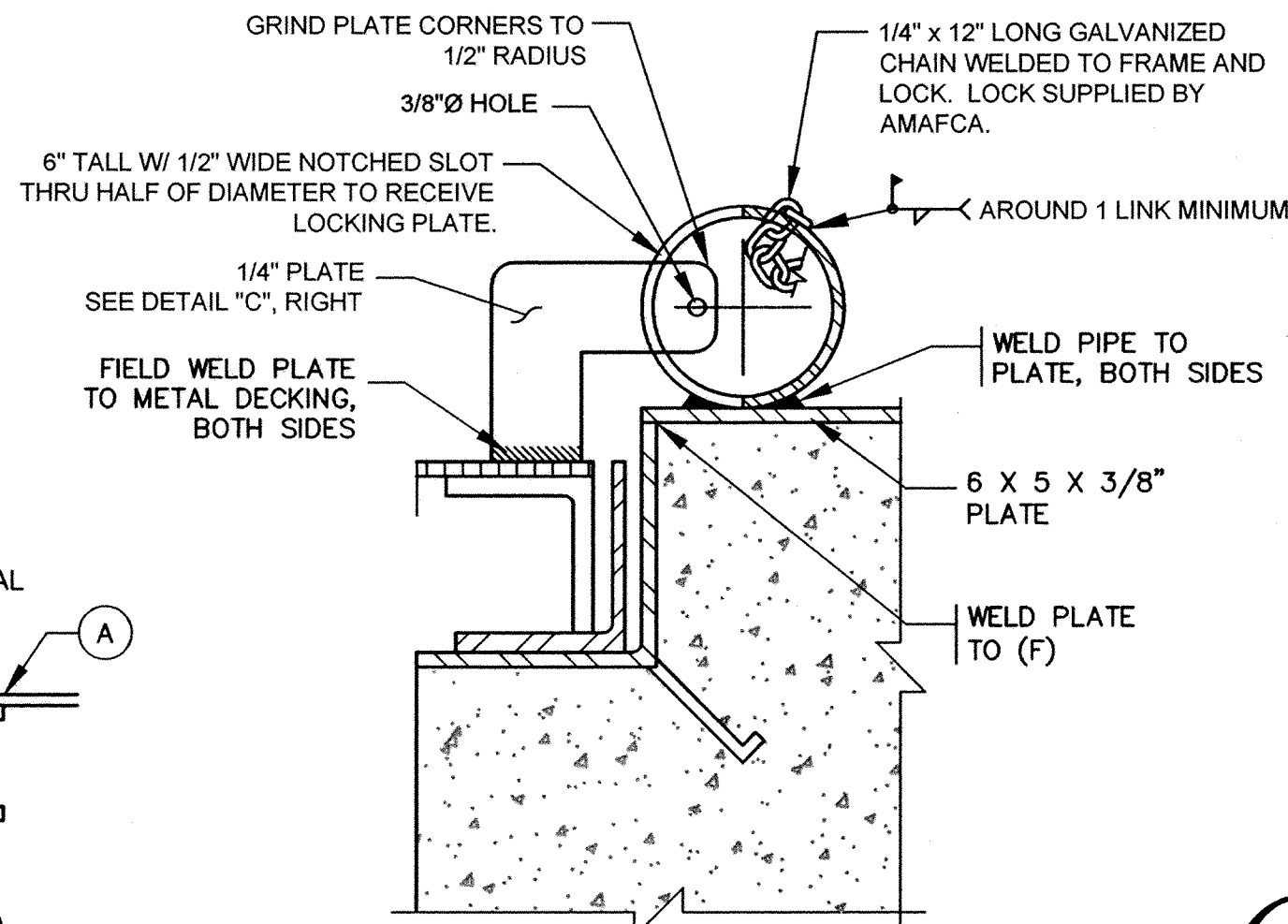
F SECTION

NTS



LOCKING MECHANISM

NTS

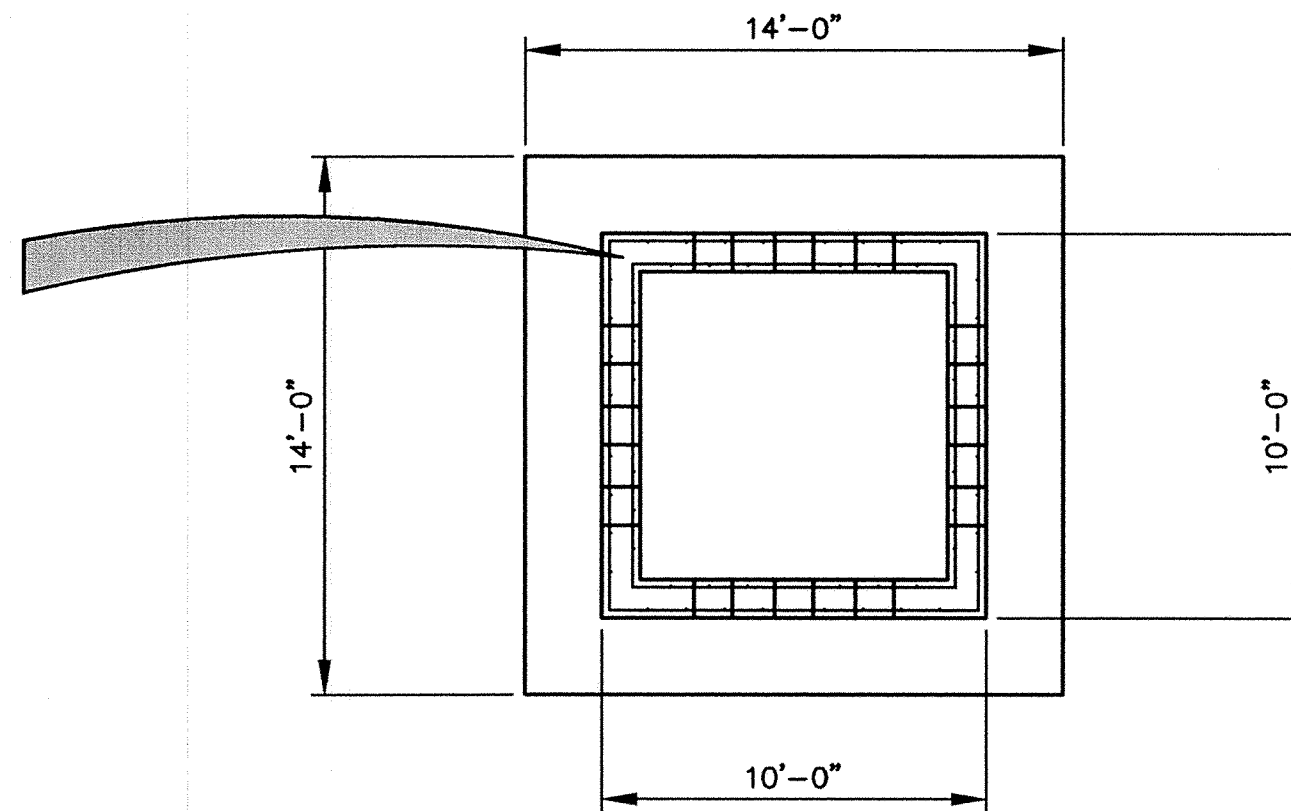


H SECTION

NTS

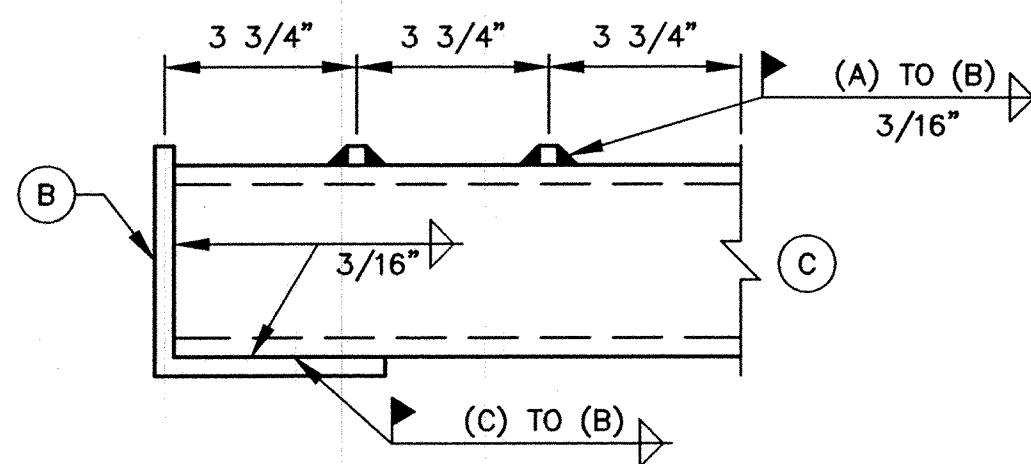
RISER REBAR

NTS



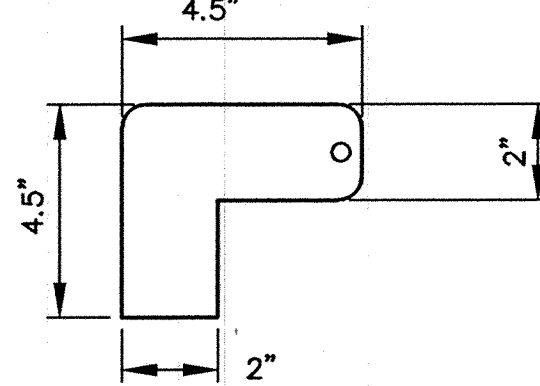
RISER PLAN VIEW

SCALE: 1" = 5'

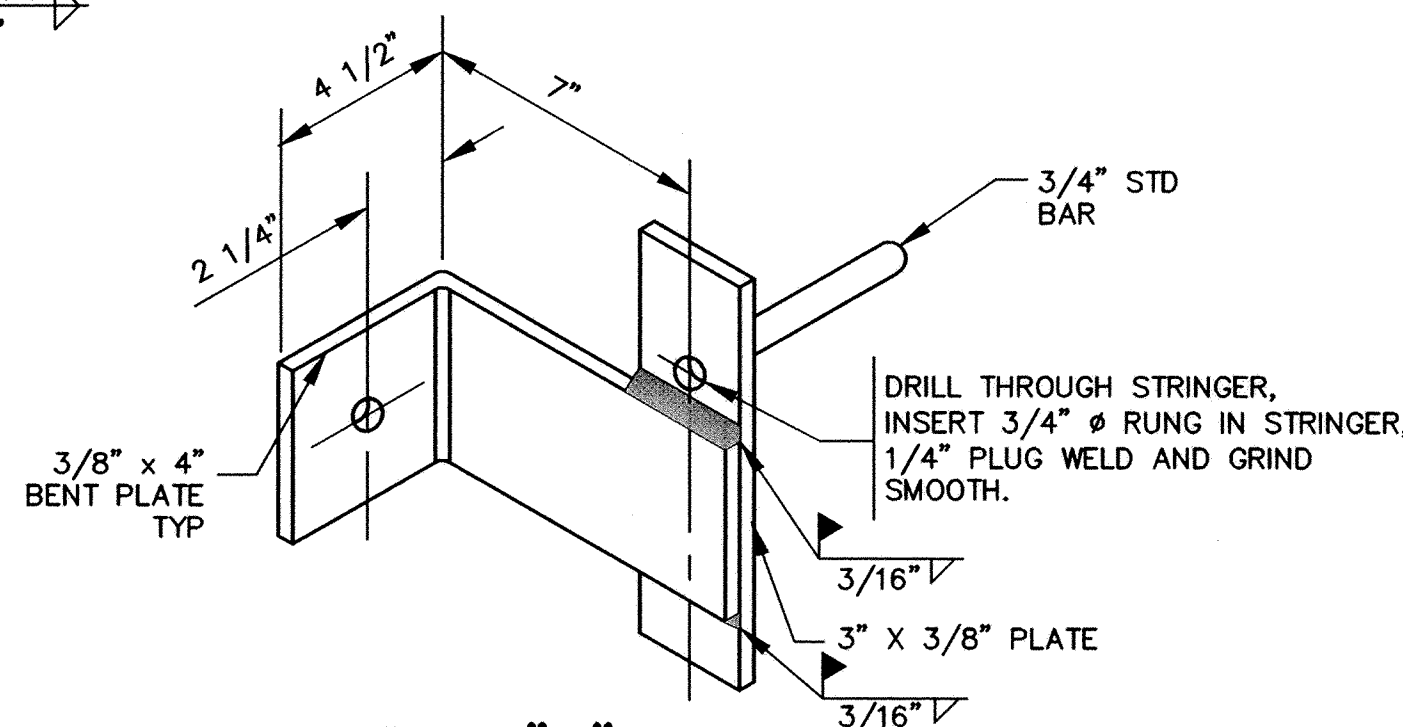


C SECTION

NTS



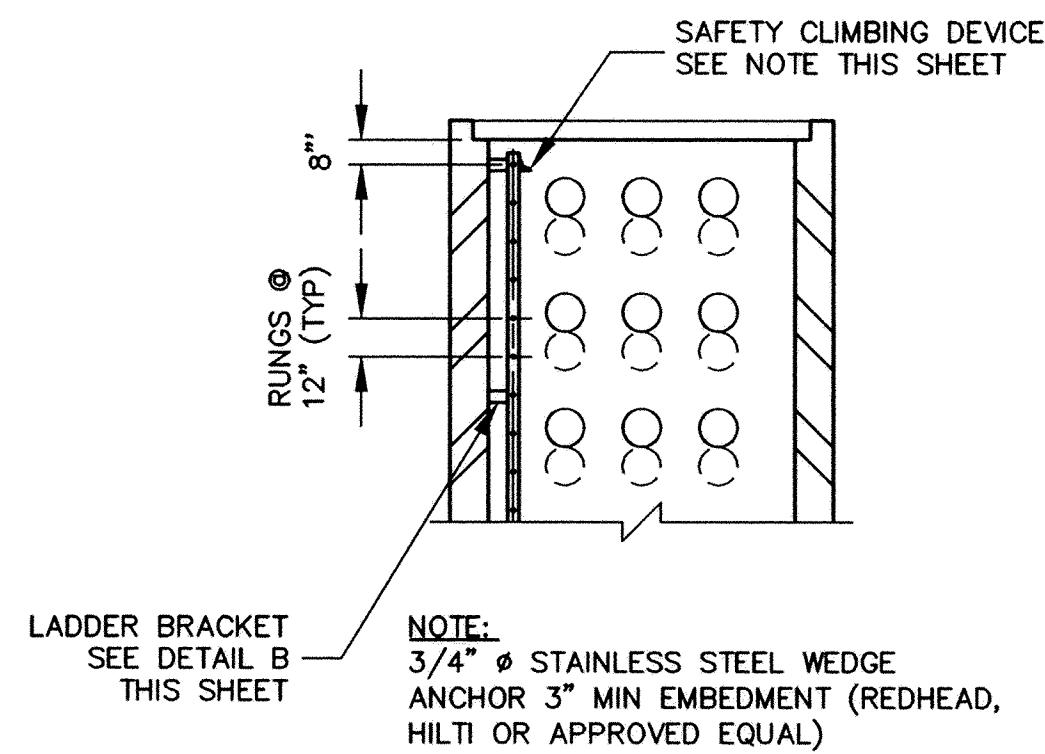
DETAIL "C"



DETAIL "B"

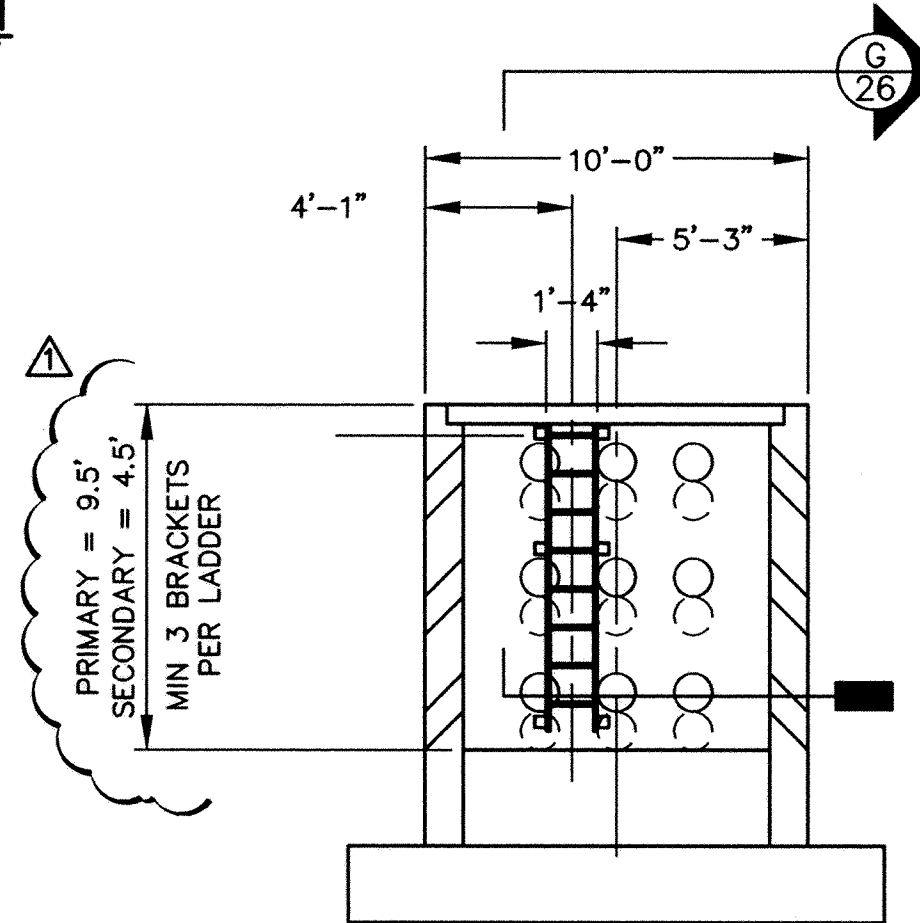
LADDER BRACKET DETAIL

NTS



SECTION

SCALE: 1" = 5'

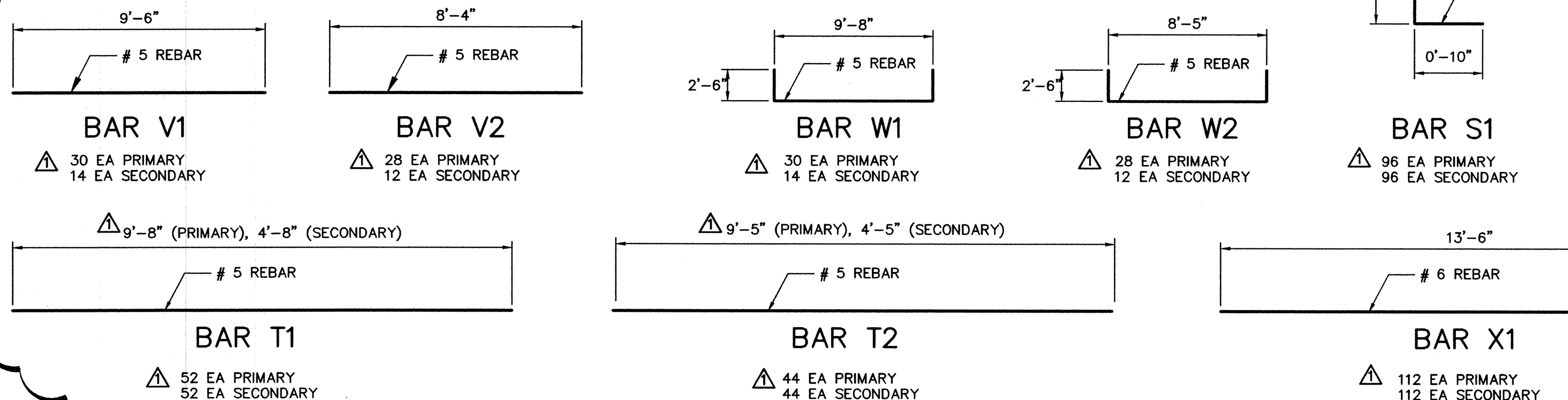


RISER LADDER ELEVATION

SCALE: 1" = 5'

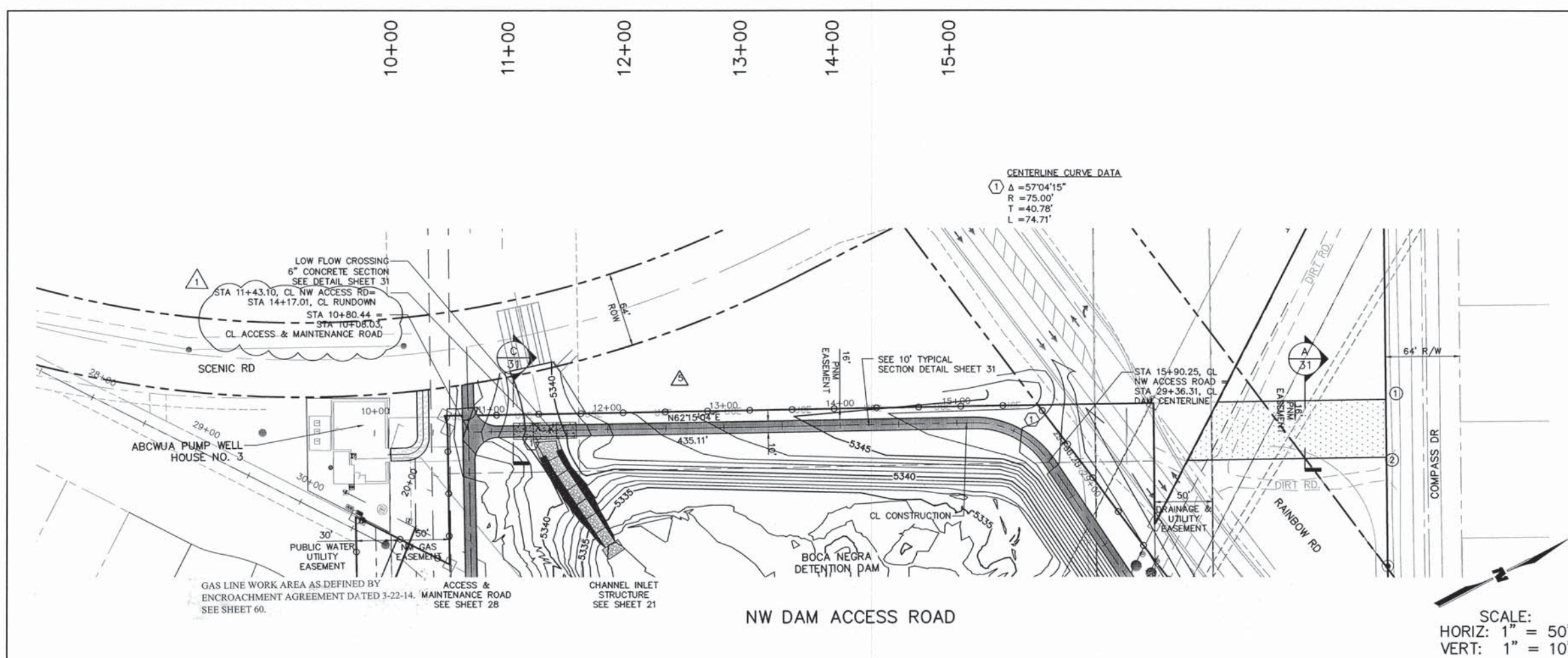
SAFETY LADDER NOTES:

1. SAFETY LADDER SHALL BE GALVANIZED A-36 STEEL AND SHALL MEET ALL REQUIREMENTS OF OSHA REGARDLESS OF DETAILS SHOWN.



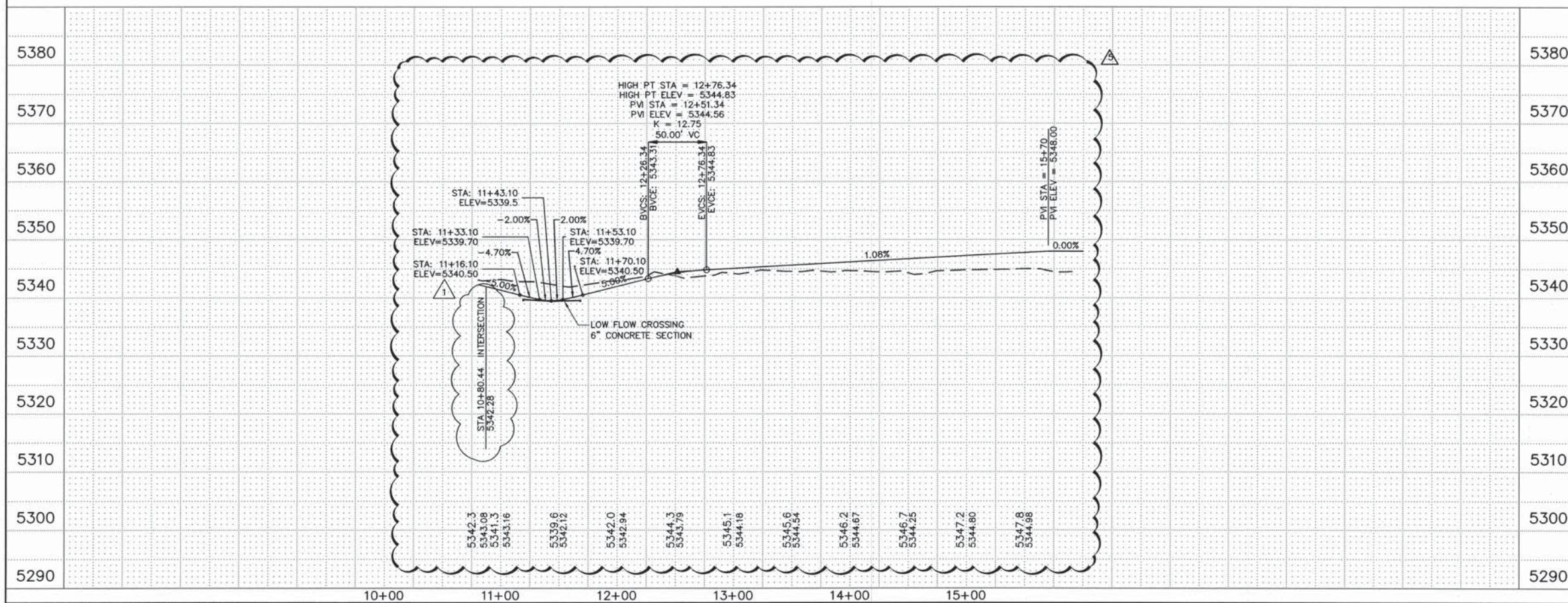
ALBUQUERQUE METROPOLITAN ARROYO FLOOD CONTROL AUTHORITY		DAM BID LOT	
RISER DETAILS			
Design Review Committee	City Engineer Approval	Mo./Day/Yr.	Mo./Day/Yr.
City Project No. 781181		Zone Map No. D- 9/10	Sheet 26R OF 56

AS-BUILT INFORMATION		BENCH MARKS		SURVEY INFORMATION		ENGINEER'S SEAL	
CONTRACTOR	DATE	STATION	DATE	NO.	DATE	DATE	DATE
WILSON & COMPANY	10/14	THE STATION IS A 3 1/2" ALUMINUM CAP SET	10/14				
INSPECTOR	DATE	FLUSH IN THE LAVA OUTCROP, AND IS STAMPED	10/14				
ACCEPTANCE BY	DATE	"ACS 8-C10, 1986". (NAD 1927).	10/14				
VERIFICATION BY	DATE	E= 361860.83, N= 1521476.37	10/14				
COMPARISON BY	DATE	LAT 35° 10' 51.940" LONG 106° 42' 44.230"	10/14				
MICRO-FILM INFORMATION		TRUNCATED: E=-300,000, N=-1,500,000					
		COMBINED GRID TO GRID = 0.999664705					
		ELEVATION = 5392.936 FT. (NAVD 88)					



LEGEND:

[Pattern]	10' WIDE ASPHALT ACCESS ROAD SEE SHEET 31
[Pattern]	10' WIDE CONCRETE ACCESS ROAD SEE SHEET 31
[Pattern]	PNM ACCESS ROAD



SCALE:
HORIZ: 1" = 50'
VERT: 1" = 10'

AS-BUILT INFORMATION

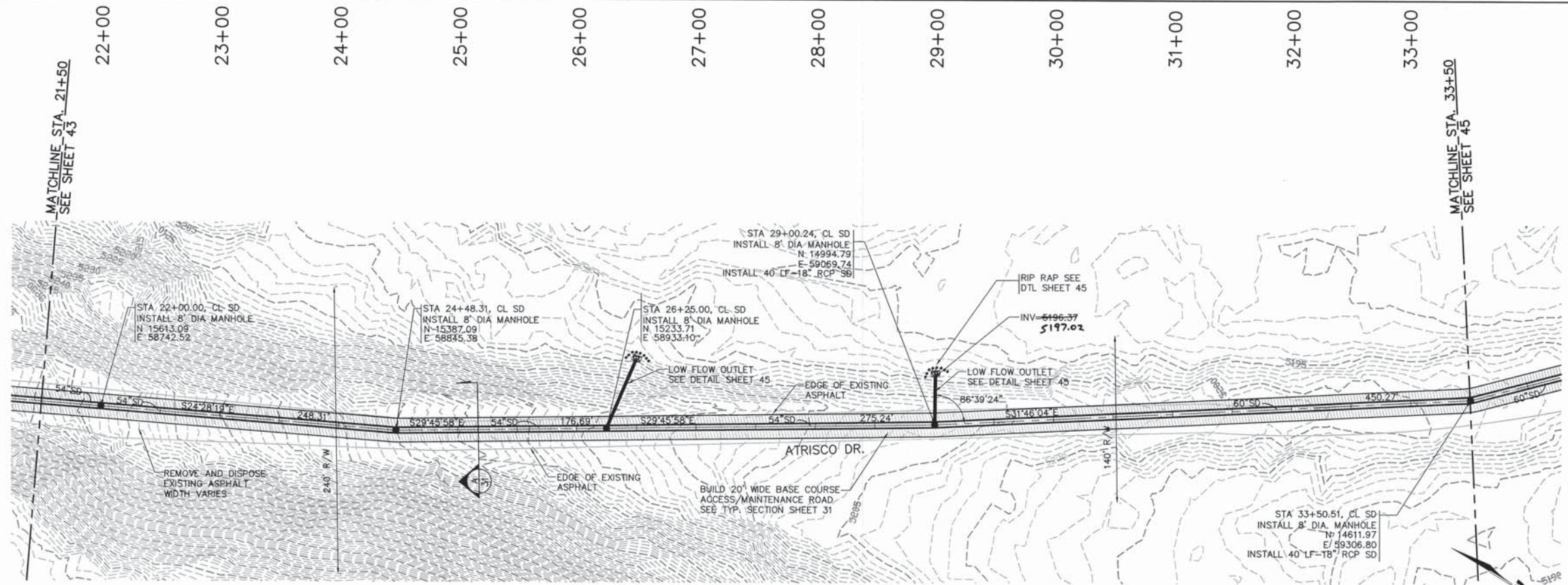
CONTRACTOR	WATSON	DATE	10/14
DESIGNED BY	WCI	DATE	10/14
DRAWN BY	WCI	DATE	10/14
CHECKED BY	WCI	DATE	10/14
RECORDED BY	WCI	DATE	10/14

BENCH MARKS

THE STATION IS A 3 1/2" ALUMINUM CAP SET FLUSH IN THE LAVA OUTCROP, AND IS STAMPED "ACS 8-C10, 1986". (NAD 1927).
E = 361860.83, N = 1521476.37
TRUNCATED: E = -300.000, N = -1,500.000
COMBINED GROUND TO GRID = 0.999664705
ELEVATION = 5392.936 FT. (NAVD 88)



		ALBUQUERQUE METROPOLITAN ARROYO FLOOD CONTROL AUTHORITY			
DAM BID LOT					
ATRISCO STORM DRAIN PLAN & PROFILE STA. 11+11.88 TO STA. 21+50.00					
Design Review Committee		City Engineer Approval		Last Design Update	
				Mo./Day/Yr. 	
City Project No.		Zone Map No.		Sheet	
781181		D- 9/10		43 OF 55 62	



NOTE:
CONTRACTOR TO REMAIN WITHIN RIGHT OF WAY
AND DRAINAGE EASEMENT AT ALL TIMES.

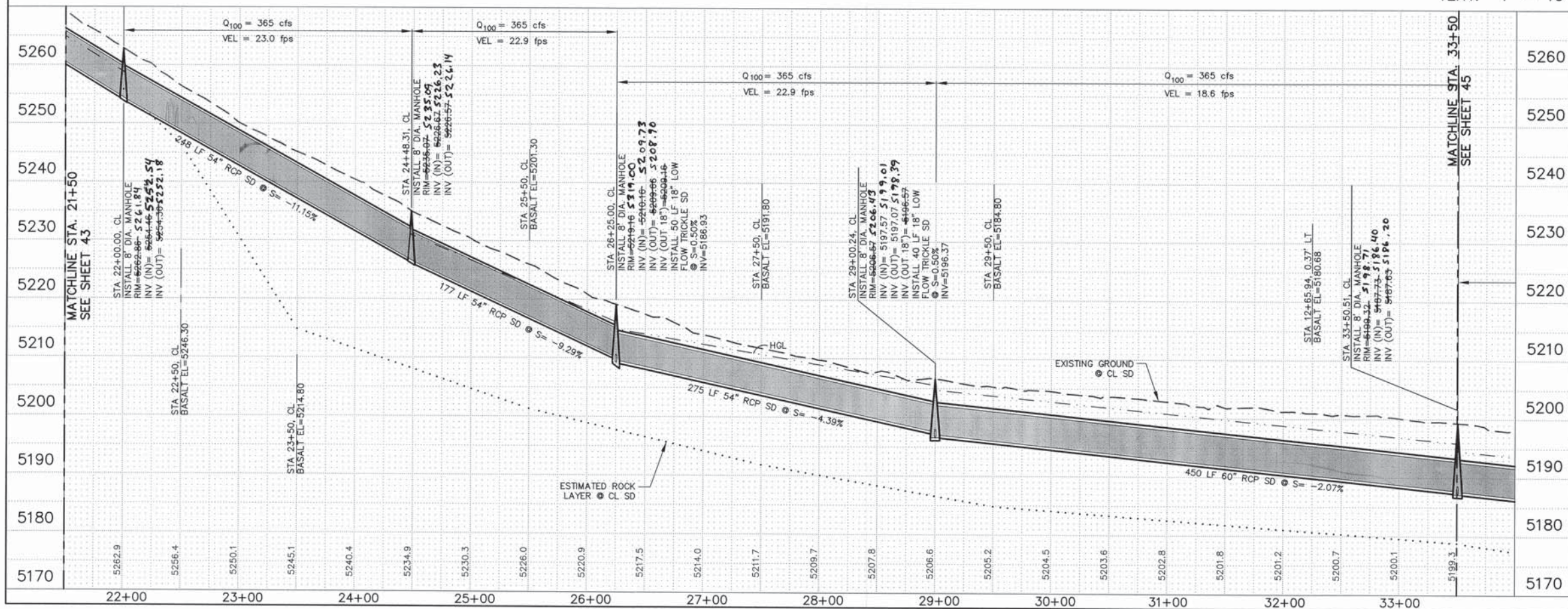
LEGEND

ATRISCO DR. BASECOURSE TRAIL

SURVEY INFORMATION			BENCH MARKS	AS-BUILT INFORMATION	
NO.	FIELD NOTES	CONTRACTOR		DATE	
	BY	DATE			
			THE STATION IS A 3 1/2" ALUMINUM CAP SET FLUSH IN THE LAVA OUTCROP, AND IS STAMPED "ACS 8-C10, 1986". (NAD 1927), E= 361860.83, N= 1521476.37 TRUNCATED: E=-300,000, N=-1,500,000 COMBINED GRID TO GRID = 0.999664705 ELEVATION = 5392.936 FT. (NAVD 88)	CONTRACTOR SAULS BROTHERS DESIGNED BY WATSON INSPECTOR'S NAME BY WCI FIELD VERIFICATION BY WCI CORRECTIONS BY WCI MICRO-FILM INFORMATION RECORDED BY NO.	
				DATE 10/14 DATE 10/14 DATE 10/14 DATE 10/14 DATE 10/14 DATE	

ATRISCO STORM DRAIN

SCALE:
HORIZ: 1" = 50'
VERT: 1" = 10'



ENGINEER'S SEAL		REVISIONS		REMARKS	
NO.	DATE	BY	DATE	DATE	DATE

ALBUQUERQUE METROPOLITAN
ARROYO FLOOD CONTROL
AUTHORITY

DAM BID LOT

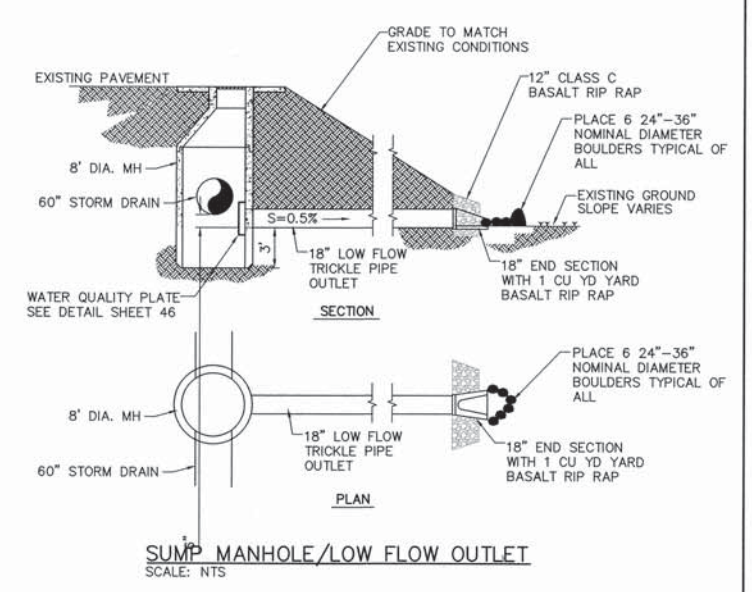
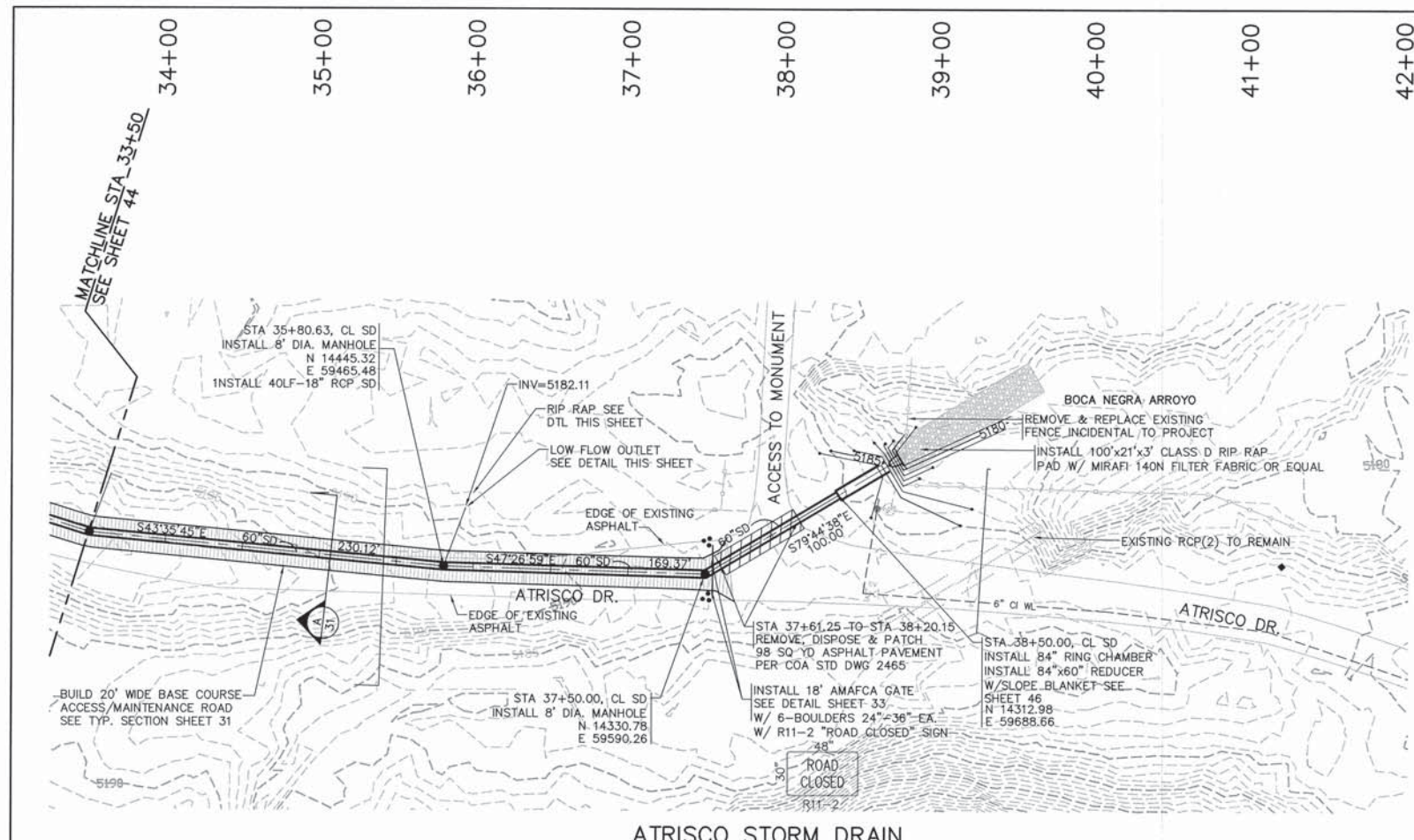
ATRISCO STORM DRAIN PLAN & PROFILE
STA. 21+50.00 TO STA. 33+50.00

Design Review Committee City Engineer Approval

APPROVED FEB 1 0 2012

City Project No. 781181 Zone Map No. D- 9/10

Sheet 44 OF 562

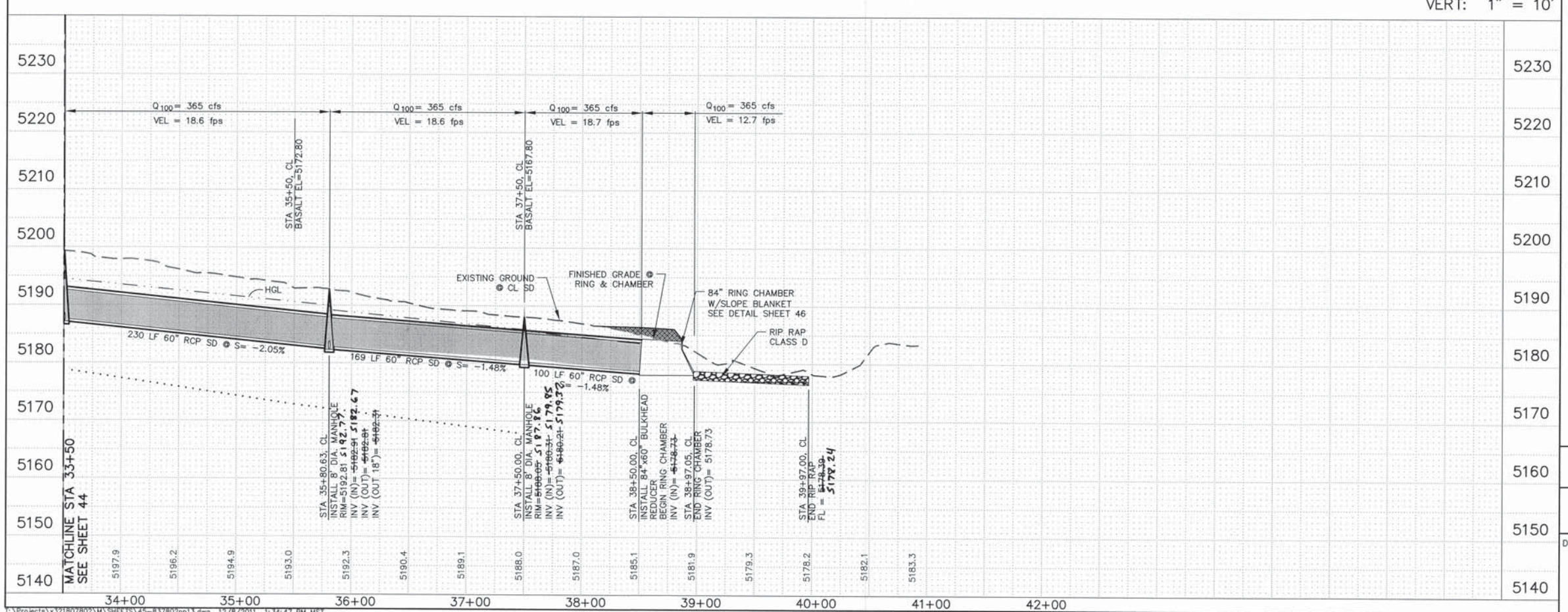


NOTE:
1. CONTRACTOR SHALL COORDINATE WITH THE NATIONAL PARK SERVICE TO CLOSE ENTRANCE ROAD FOR STORM DRAIN CONSTRUCTION DURING NON PARK HOURS.

NOTE:
CONTRACTOR TO REMAIN WITHIN RIGHT OF WAY AND DRAINAGE EASEMENT AT ALL TIMES.

LEGEND
ATRISCO DR. BASECOURSE TRAIL

SCALE:
HORIZ: 1" = 50'
VERT: 1" = 10'



ENGINEER'S SEAL

RECORD DRAWING DATE 10/14

ALBUQUERQUE METROPOLITAN ARROYO FLOOD CONTROL AUTHORITY

DAM BID LOT

ATRISCO STORM DRAIN PLAN & PROFILE

STA. 33+50.00 TO STA. 40+00.00

Design Review Committee APPROVED FEB 10 2012

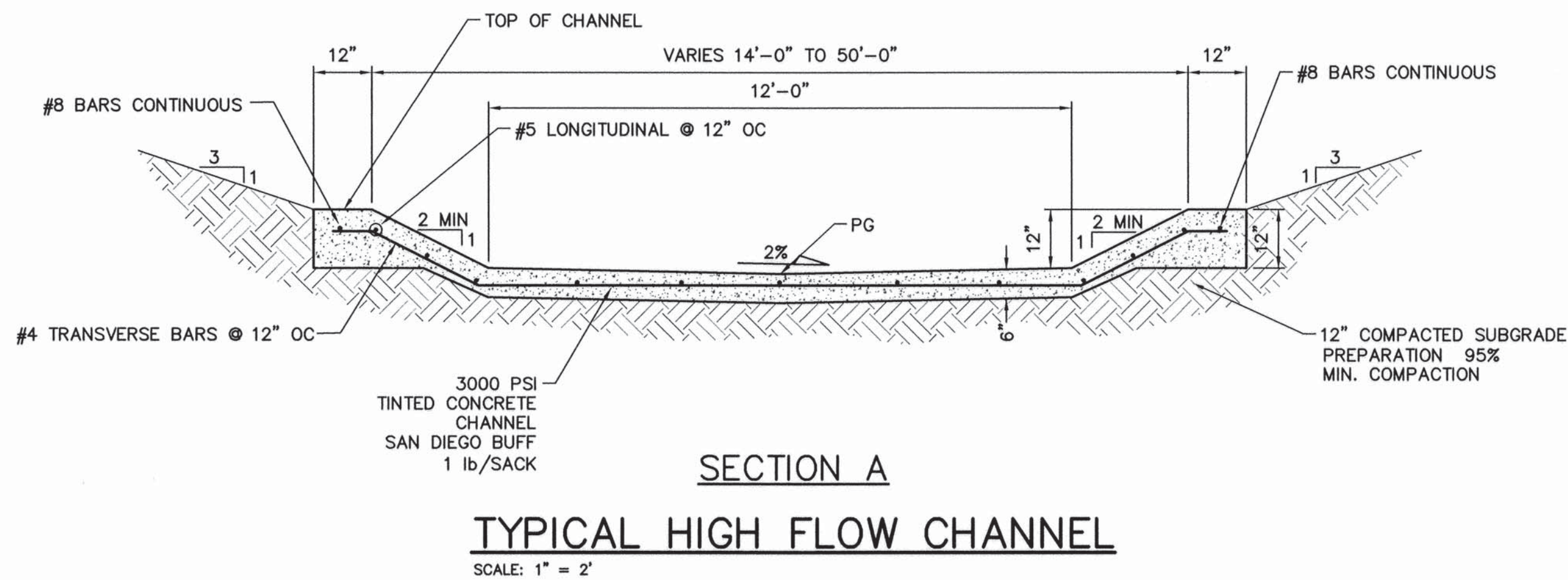
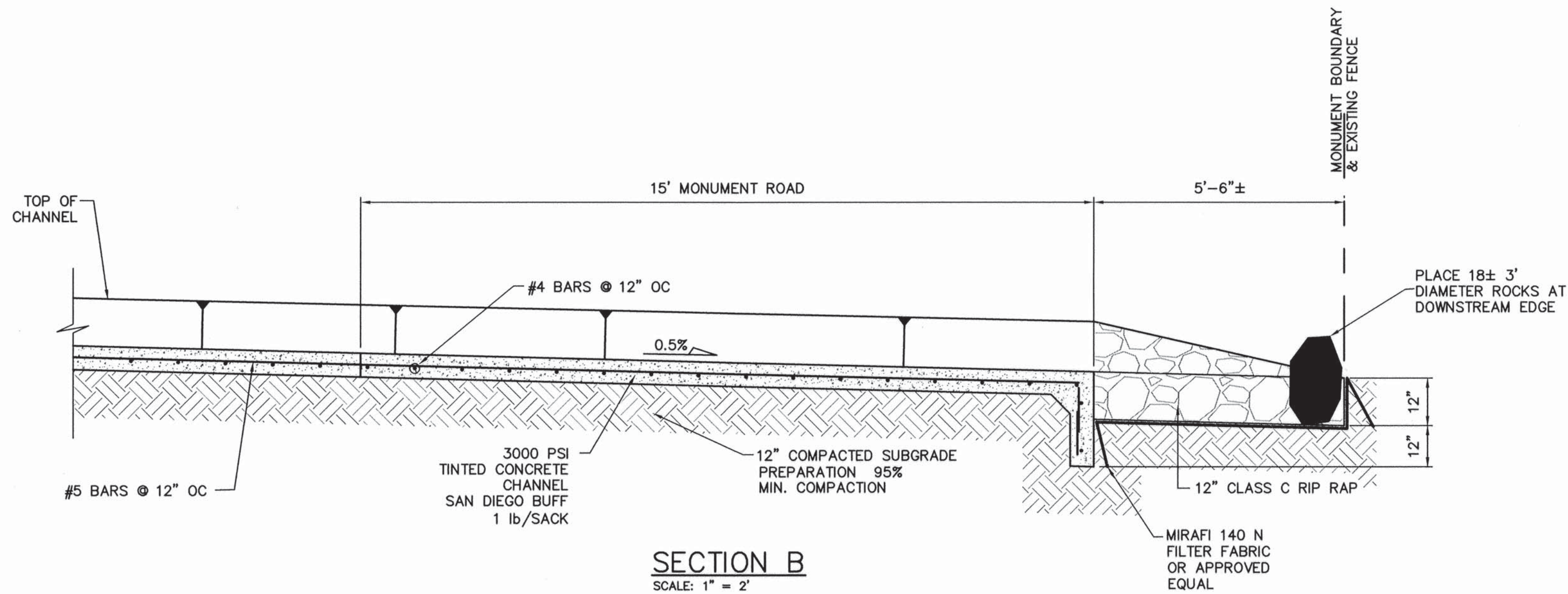
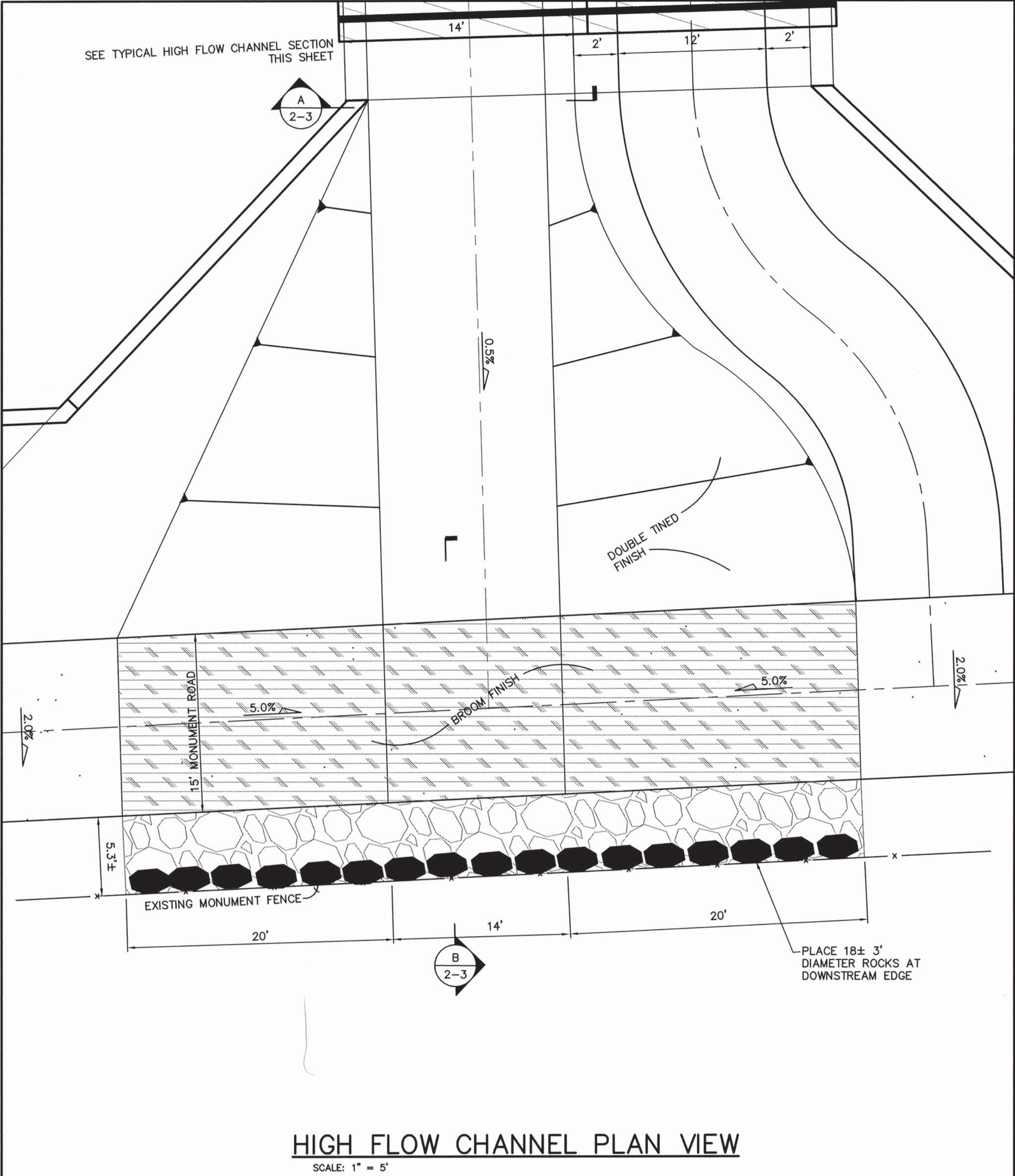
City Engineer Approval APPROVED FEB 10 2012

City Project No. 781181

Zone Map No. D- 9/10

Sheet 45 OF 56

NO.	DATE	BY	REMARKS
1	10/14	WILSON & COMPANY, ENGINEERS & ARCHITECTS	DESIGNED BY JSD
2	10/14	WILSON & COMPANY, ENGINEERS & ARCHITECTS	DRAWN BY DSA
3	10/14	WILSON & COMPANY, ENGINEERS & ARCHITECTS	CHECKED BY DSA



AS-BUILT INFORMATION		BENCH MARKS		SURVEY INFORMATION		ENGINEER'S SEAL	
CONTRACTOR	DATE	THE STATION IS A 3 1/2" ALUMINUM CAP SET FLUSH IN THE LAVA OUTCROP, AND IS STAMPED "ACS 8-C10, 1986". (NAD 1927), X= 361860.83, Y= 1521476.37	DATE	NO.	BY	NO.	DATE
WORK	DATE		DATE				
INSPECTOR'S	DATE		DATE				
ACCEPTANCE BY	DATE		DATE				
VERIFICATION BY	DATE		DATE				
DRAWINGS	DATE		DATE				
BY	DATE		DATE				
MICRO-FILM INFORMATION							
RECORDED BY	DATE	ELEVATION = 5390.130 FT. (SLD 1929)					
NO.							



REVISIONS		REMARKS	
NO.	DATE	BY	
1			
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ALBUQUERQUE METROPOLITAN ARROYO FLOOD CONTROL AUTHORITY			
TRAIL / OUTLET BID LOT			
HIGH FLOW DETAILS			
Design Review Committee	City Engineer Approval	Mo./Day/Yr.	Mo./Day/Yr.
City Project No.	Zone Map No.	Sheet	Of
781181	D- 9/10	2	3

WCEA #X321807802
OCT. 2006

WILSON
& COMPANY

47 OF 89

62+00

12+00

13+00

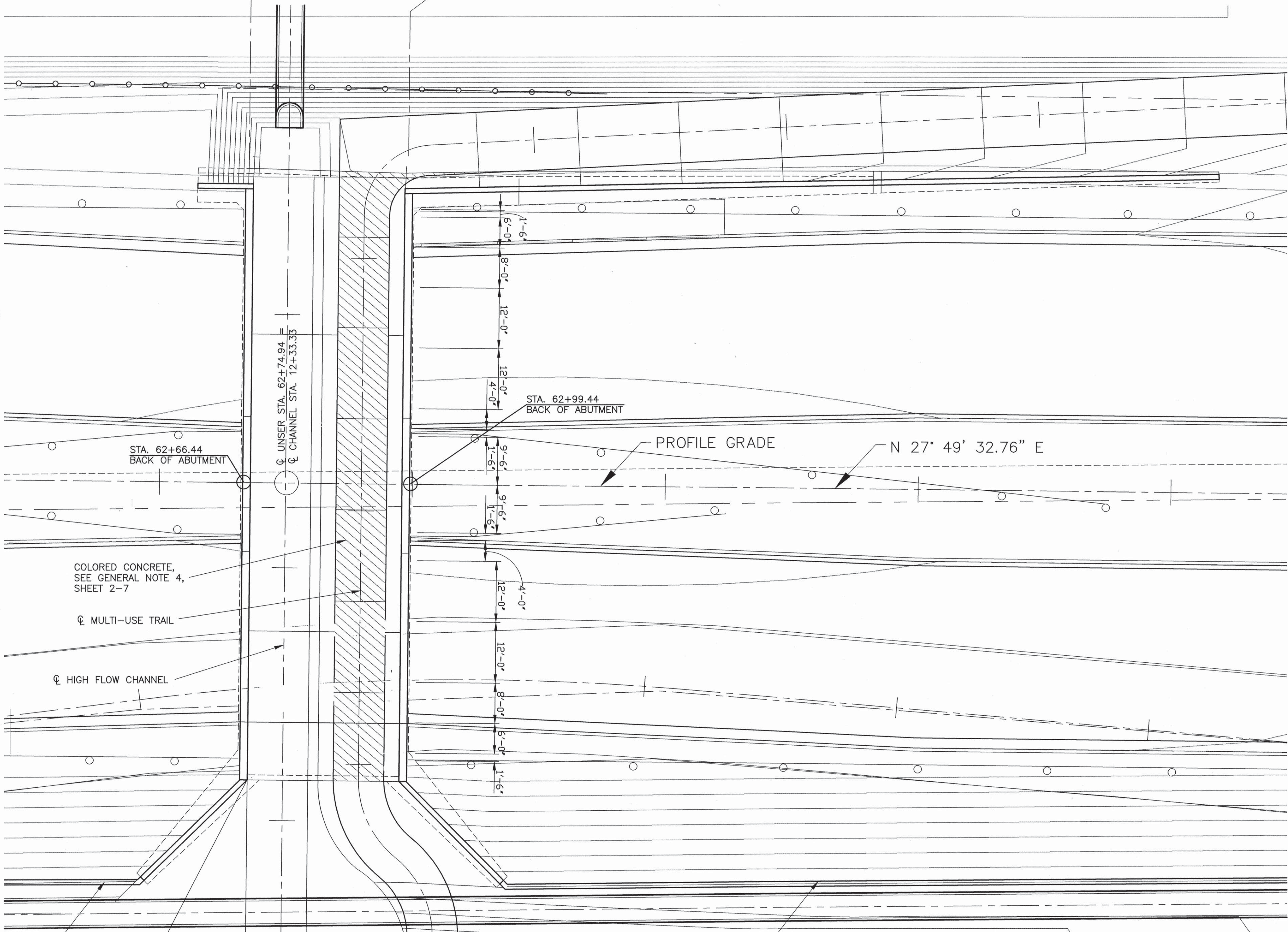
63+00

64+00

RETAINING WALL,
SEE ROADWAY PLANS

RETAINING WALL,
SEE ROADWAY PLANS

STRUCTURE PLAN
SCALE 1" = 10'



COLORED CONCRETE,
SEE GENERAL NOTE 4,
SHEET 2-7

CL MULTI-USE TRAIL

CL HIGH FLOW CHANNEL

CL ABUT. NO. 1
STA. 62+67.19
ELEV. 5333.33

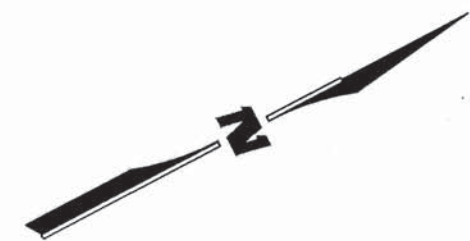
CL ABUT. NO. 2
STA. 62+98.69
ELEV. 5333.41

CL UNSER STA. 62+74.94
CL CHANNEL STA. 12+33.33

STA. 62+99.44
BACK OF ABUTMENT

PROFILE GRADE

N 27° 49' 32.76" E

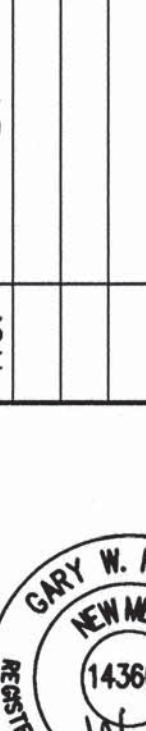


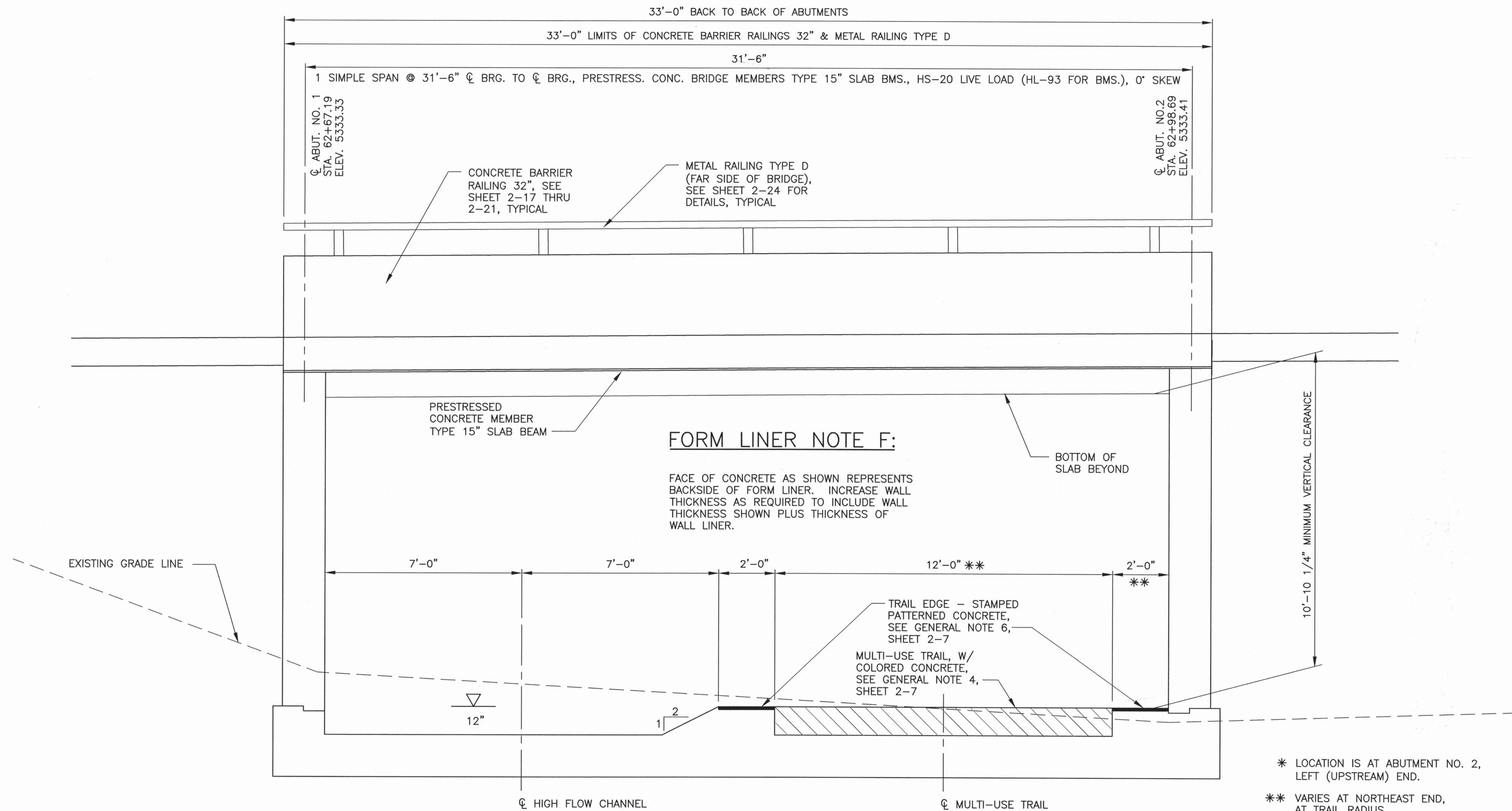
			
ALBUQUERQUE METROPOLITAN ARROYO FLOOD CONTROL AUTHORITY			
BOCA NEGRA DETENTION DAM UNSER BLVD. OVER HIGH FLOW CHANNEL STRUCTURE PLAN			
Design Review Committee	City Engineer Approval	Mo./Day/Yr.	Mo./Day/Yr.
City Project No.	Zone Map No.	Sheet	Of
781181	D- 9/10	2	8

WCEA #X321807802
JULY 2006

WILSON
& COMPANY

50 OF 89

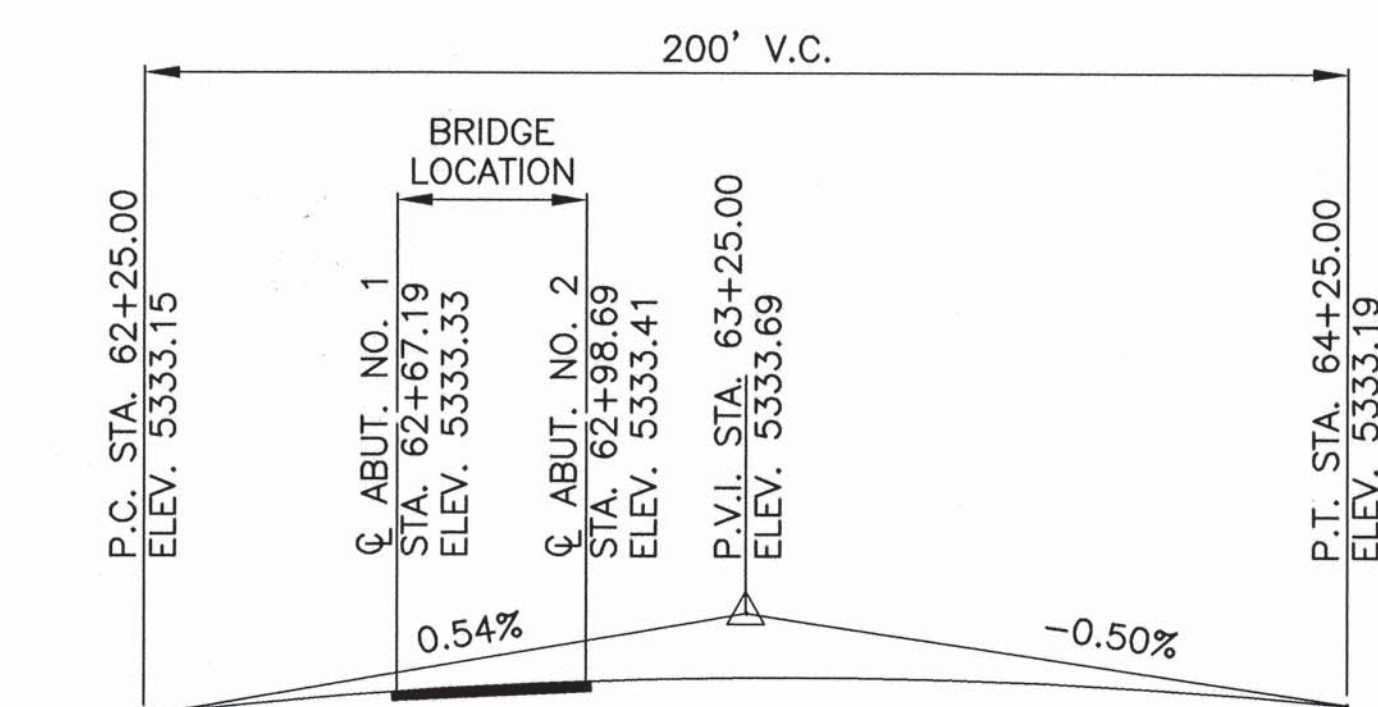
										ENGINEER'S SEAL		FIELD NOTES		SURVEY INFORMATION		BENCH MARKS		AS-BUILT INFORMATION	
																			
										REVISIONS		NO.		BY		DATE			
										WILSON & COMPANY, ENGINEERS & ARCHITECTS									
										DESIGNED BY GWK									
										DATE OCT 2006									
										DRAWN BY GRH									
										DATE OCT 2006									
										CHECKED BY RSM									
										DATE OCT 2006									



ELEVATION ALONG CENTERLINE OF PROFILE GRADE LINE
SCALE 1/2" = 1'-0"

FOUNDATION PREPARATION NOTES

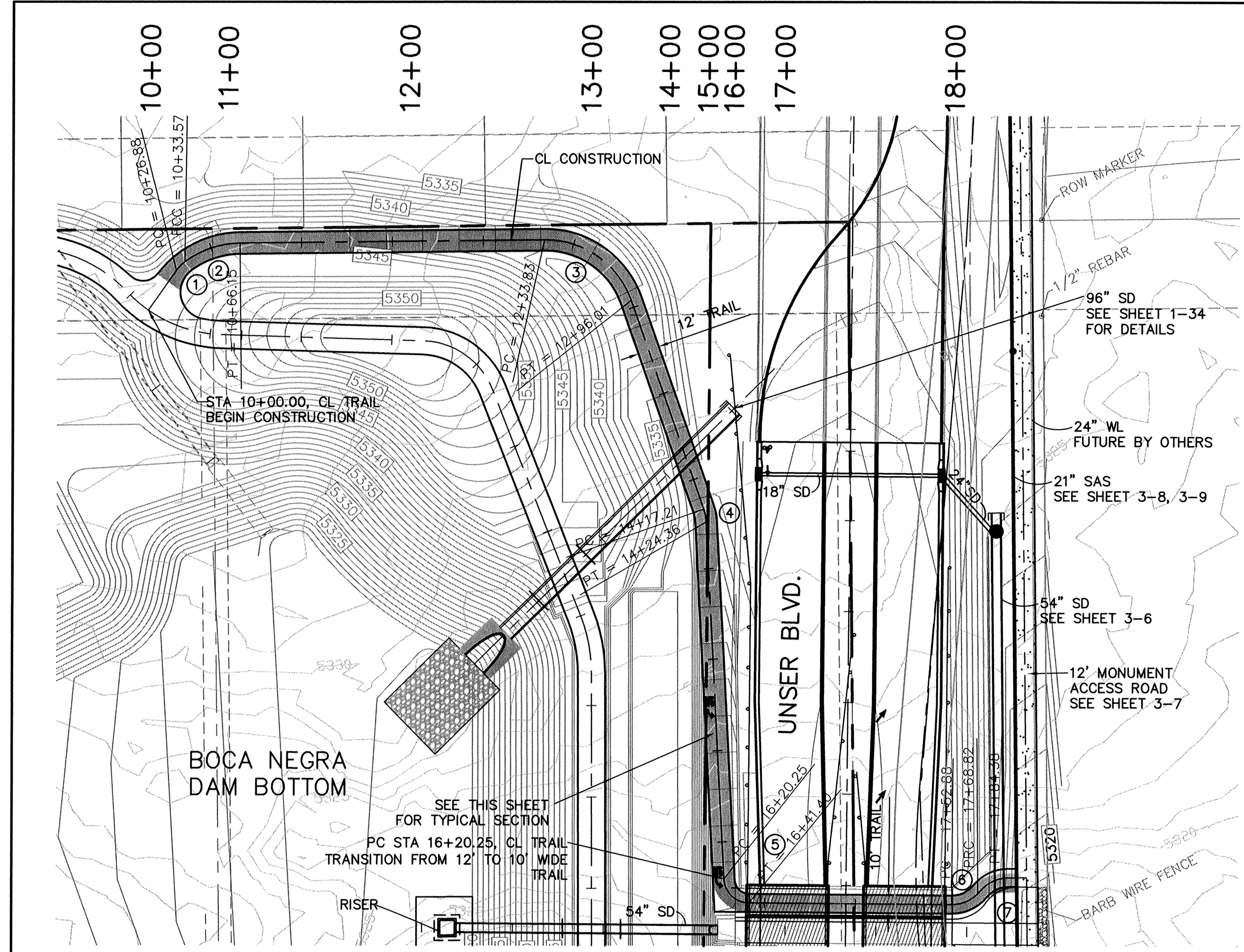
- OVER-EXCAVATE TO A DEPTH OF FIVE FEET BELOW BOTTOMS OF FOUNDATIONS AND FOR A DISTANCE OF FIVE FEET LATERALLY BEYOND PERIMETER OF FOUNDATIONS, AND REPLACE WITH STRUCTURAL FILL.
- SCARIFY EXISTING SURFACE OF NATIVE SOILS TO A DEPTH OF 12", MOISTURE CONDITION TO NEAR OPTIMUM MOISTURE CONTENT (+ 3%), AND COMPACT TO 95% MAXIMUM DENSITY AS DETERMINED BY ASTM D-1557. WHERE BASALT IS ENCOUNTERED PRIOR TO ACHIEVING FIVE FEET OF OVER-EXCAVATION, NO ADDITIONAL OVER-EXCAVATION IS REQUIRED AND NO COMPACTION OF NATIVE SOILS IS REQUIRED.
- STRUCTURAL FILL: SEE PROJECT SPECIFICATIONS FOR STRUCTURAL FILL AND PLACEMENT REQUIREMENTS.



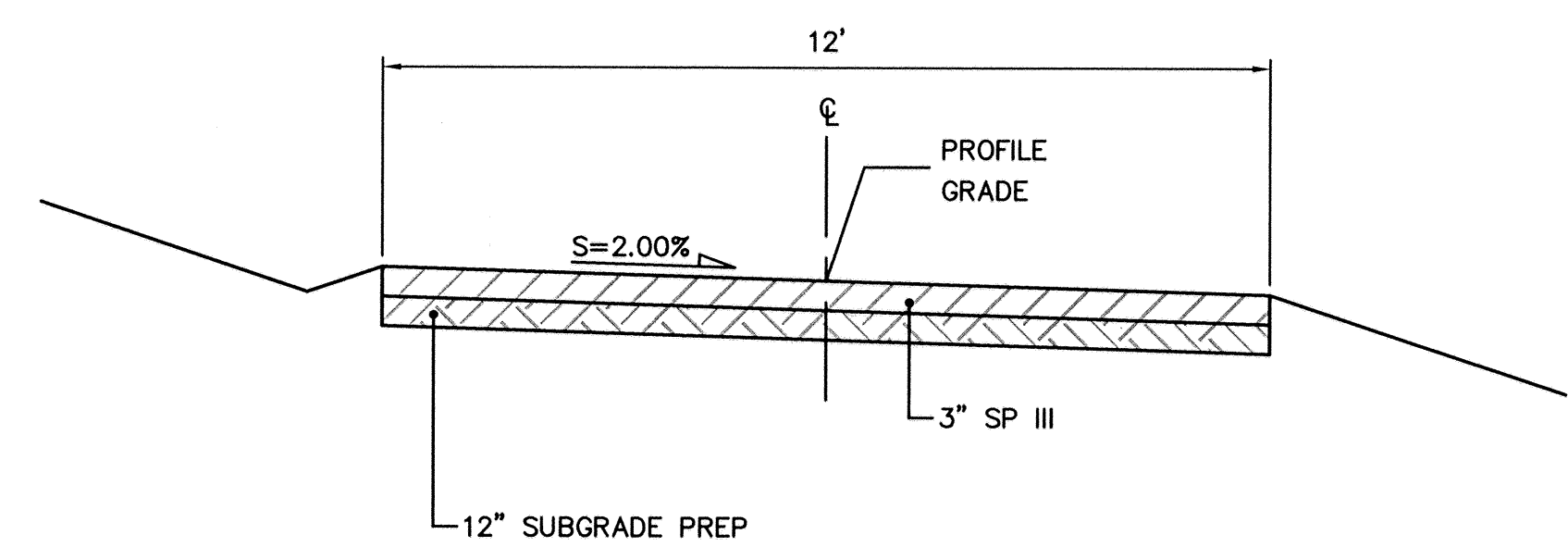
PROFILE GRADE LINE - UNSER BLVD.
NOT TO SCALE

		BOCA NEGRA DETENTION DAM UNSER BLVD. OVER HIGH FLOW CHANNEL STRUCTURE PROFILE	
Design Review Committee	City Engineer Approval	Last Design Update	Mo./Day/Yr.
City Project No.	Zone Map No.	Sheet	Of
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ENGINEER'S SEAL		SURVEY INFORMATION		BENCH MARKS		AS-BUILT INFORMATION		
 RECEIVED OCTOBER 17, 2006		FIELD NOTES		THE STATION IS A 3 1/2" ALUMINUM CAP SET FLUSH IN THE LAVA OUTCROP, AND IS STAMPED "ACS 8-CIO, 1986". (NAD 1927). X= 361860.83, Y= 1521476.37 ELEVATION = 5390.130 FT. (SLD 1929)		CONTRACTOR		
		NO.	BY			DATE	WORK RECORDED BY	DATE
							INSPECTOR'S ACCEPTANCE BY	DATE
							VERIFICATION BY	DATE
						DRAWINGS RECORDED BY		DATE
						MICRO-FILM INFORMATION		DATE
						RECORDED BY		DATE
						NO.		

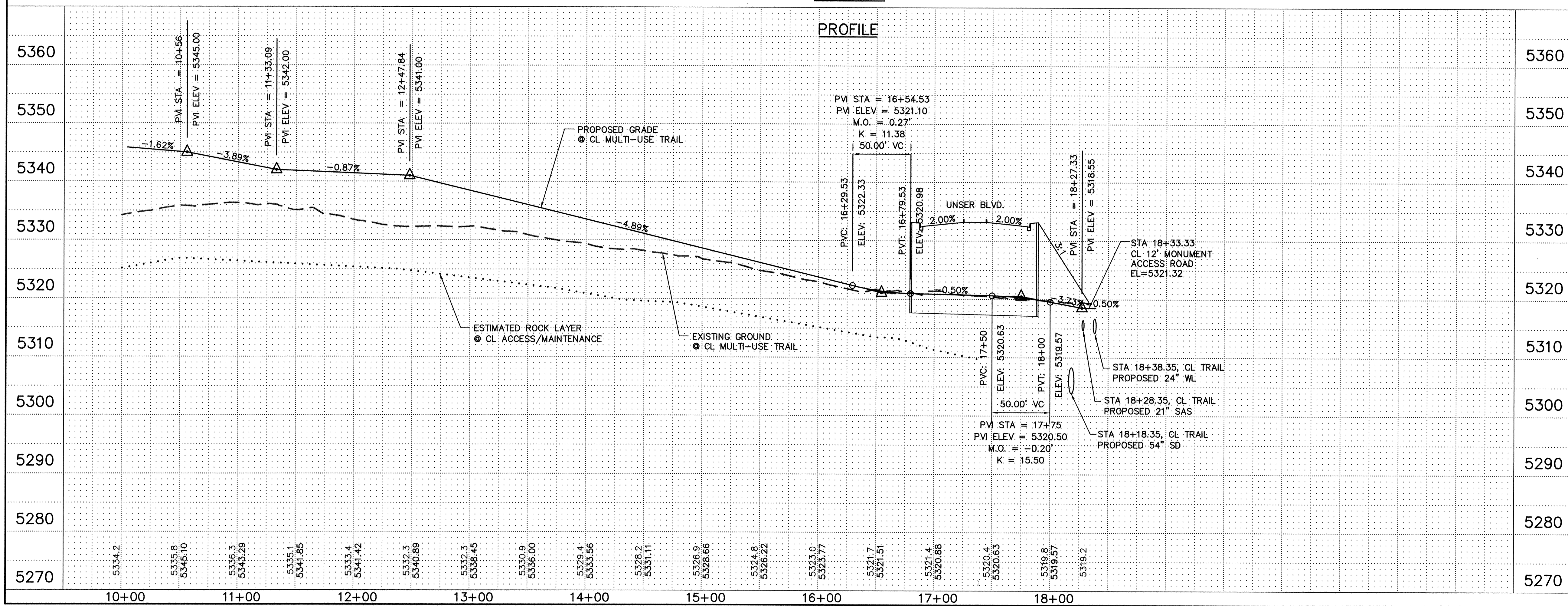


CL CURVE DATA			
①	$\Delta = 18^{\circ}15'26''$ R = 21.00' T = 3.37' L = 6.69'	②	$\Delta = 36^{\circ}14'35''$ R = 51.50' T = 16.85' L = 32.58'
③	$\Delta = 71^{\circ}14'58''$ R = 50.00' T = 35.85' L = 62.18'	④	$\Delta = 15^{\circ}23'48''$ R = 25.00' T = 3.60' L = 7.15'
CL CURVE DATA			
⑤	$\Delta = 86^{\circ}33'38''$ R = 14.00' T = 13.18' L = 21.15'	⑥	$\Delta = 45^{\circ}39'56''$ R = 20.00' T = 8.42' L = 15.94'
⑦	$\Delta = 44^{\circ}35'05''$ R = 20.00' T = 8.20' L = 15.56'		



TYPICAL SECTION
12' MULTI-USE TRAIL
N.T.S.

SCALE:
HORIZ: 1" = 50'
VERT: 1" = 10'



NOTE:
1. SEE SHEET 3-19 FOR SIGNING STRIPING

AS-BUILT INFORMATION		BENCH MARKS		SURVEY INFORMATION		ENGINEER'S SEAL		
CONTRACTOR	DATE	THE STATION IS A 3 1/2" ALUMINUM CAP SET FLUSH IN THE LAVA OUTCROP, AND IS STAMPED "ACS 8-C10, 1986". (NAD 1927).	DATE	FIELD NOTES	DATE		REVISIONS	
WORKED BY	DATE		DATE	NO.	BY			
INSPECTED BY	DATE		DATE			WILSON & COMPANY, ENGINEERS & ARCHITECTS	DESIGNED BY	
ACCEPTANCE BY	DATE		DATE					
VERIFIED BY	DATE		DATE			DRAWN BY	CHECKED BY	
DRAWN BY	DATE		DATE					
RECORDED BY	DATE		DATE			ALBUQUERQUE METROPOLITAN ARROYO FLOOD CONTROL AUTHORITY		
	DATE		DATE			TRAIL / OUTLET BID LOT MULTI-USE TRAIL PLAN & PROFILE		
	DATE		DATE			Design Review Committee City Engineer Approval		
	DATE		DATE			Last Design Update		
	DATE		DATE			Mo./Day/Yr. Mo./Day/Yr.		
	DATE		DATE			City Project No. 781181		
	DATE		DATE			Zone Map No. D- 9/10		
	DATE		DATE			Sheet 2 - 2		