

**VICINITY MAP** 

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# **APPROVALS**

Digitally signed by David Gatterman DN: cn=David Gatterman, o=SSCAFCA, ou=Field Operations, email=dgatterman@sscafca.com, c=US Date: 2022.08.24 07:56:19 -06'00' SSCAFCA:

EXECUTIVE ENGINEER

Southern Sandoval County **Arroyo Flood Control** Authority 1041 Commercial Dr. S.E Rio Rancho. New Mexico 87124 505-892-RAIN (7246 505-892-7241 (Fax) www.sscafca.com RY CHANNEL EMENTS SHEET IVORY N Ш LOWER 00 **REVISIONS &** CHANGE NOTICES DESCRIPTION DATE PROJECT NO: BL\_P0014-02 DESIGNED BY: JN DRAWN BY: KLF CHECKED BY: AES DATE: 8/23/2022

SHEET 1 OF 17

DATE: 8/24/2022

### GENERAL NOTES

- ALL CONSTRUCTION SHALL BE PERFORMED IN ACCORDANCE WITH 1) THE PROJECT CONSTRUCTION PLANS, 2) THE PROJECT SPECIFICATIONS, AND 3) NEW MEXICO STANDARD SPECIFICATIONS FOR PUBLIC WORKS CONSTRUCTION, APWA NM CHARTER, LATEST EDITION, IN THAT ORDER OF PRECEDENCE AT THE TIME OF CONSTRUCTION BID.
- 2. THE CONTRACTOR AGREES THAT HE/SHE SHALL ASSUME THE SOLE AND COMPLETE RESPONSIBILITY FOR THE JOB SITE CONDITIONS DURING THE COURSE OF CONSTRUCTION OF THE PROJECT, INCLUDING SAFETY OF ALL PERSONS AND PROPERTY, THAT THIS REQUIREMENT SHALL APPLY CONTINUOUSLY AND NOT BE LIMITED TO NORMAL WORKING HOURS, AND THE CONTRACTOR SHALL DEFEND. INDEMNIFY AND HOLD THE OWNER AND ENGINEER HARMLESS FROM ANY AND ALL LIABILITY, REAL OR ALLEGED, IN CONNECTION WITH THE PERFORMANCE OF WORK ON THIS PROJECT, EXCEPTING FOR LIABILITY ARISING FROM THE SOLE NEGLIGENCE OF THE OWNER OR ENGINEER.
- NO MODIFICATIONS TO THESE PLANS SHALL BE MADE WITHOUT THE WRITTEN CONSENT OF THE OWNER, ENGINEER AND ALL APPROVAL SIGNATORIES. THE ENGINEER SHALL NOT BE RESPONSIBLE FOR CONSTRUCTION METHODS OR TECHNIQUES OR FOR THE PROSECUTION OF THE WORK AS SHOWN ON THESE PLANS. THE ENGINEER SHALL NOT BE HELD RESPONSIBLE FOR THE ACTS OR OMISSIONS OF THE CONTRACTOR, SUBCONTRACTORS OR OTHER PERSONS PERFORMING ANY WORK, AS SHOWN IN THE PROJECT CONTRACT DOCUMENTS.
- 4. UNLESS OTHERWISE PROVIDED AS PART OF THE CONSTRUCTION PLANS, A COMPLETE TRAFFIC CONTROL PLAN SHALL BE PREPARED BY THE CONTRACTOR WHEN ANY PORTION OF THE WORK IMPACTS THE TRAVELING PUBLIC, EITHER VEHICULAR OR PEDESTRIAN. ALL CONSTRUCTION SIGNING, BARRICADING AND CHANNELIZATION SHALL CONFORM TO THE "MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES FOR STREETS AND HIGHWAYS" (MUTCD), LATEST EDITION. THE PLAN SHALL BE SUBMITTED TO THE APPROPRIATE JURISDICTIONAL AUTHORITY FOR APPROVAL AT LEAST 7 DAYS PRIOR TO THE DESIRED START OF CONSTRUCTION. THE CONTRACTOR SHALL NOT IMPLEMENT THE TRAFFIC CONTROL PLAN UNTIL APPROVAL OF THE PLAN HAS BEEN RECEIVED.
- 5. THE CONTRACTOR SHALL DESIGNATE AT LEAST ONE EMERGENCY CONTACT PERSON, AND SHALL PROVIDE TELEPHONE NUMBERS WHERE THIS PERSON CAN BE CONTACTED AT ANY TIME. THIS INFORMATION SHALL BE PROVIDED TO THE OWNER.
- 6. THE CONTRACTOR IS RESPONSIBLE FOR OBTAINING ALL NECESSARY PERMITS FROM ALL JURISDICTIONAL AUTHORITIES PRIOR TO START OF CONSTRUCTION.
- ALL WORK ON THIS PROJECT SHALL BE PERFORMED IN ACCORDANCE WITH APPLICABLE FEDERAL, STATE AND LOCAL LAWS, RULES AND REGULATIONS CONCERNING CONSTRUCTION SAFETY. HEALTH. AND ENVIRONMENTAL PROTECTION.
- EXISTING SITE IMPROVEMENTS WHICH ARE DAMAGED OR DISPLACED BY THE CONTRACTOR SHALL BE REMOVED AND REPLACED BY THE CONTRACTOR AT THE CONTRACTOR'S OWN EXPENSE. THE WORK SHALL BE APPROVED BY THE OWNER PRIOR TO CONSTRUCTION OF THE REPAIRS. REPAIRS MUST BE ACCEPTED BY THE OWNER PRIOR TO FINAL PAYMENT.
- 9. THE CONTRACTOR SHALL ONLY UTILIZE THE DESIGNATED STAGING AREAS FOR STORAGE OF ALL EQUIPMENT AND MATERIALS. THE OWNER ASSUMES NO RESPONSIBILITY OR LIABILITY FOR CONTRACTOR'S EQUIPMENT AND MATERIAL IN THE STAGING AREA. SECURITY SHALL BE THE SOLE RESPONSIBILITY OF THE CONTRACTOR. IF NO STAGING AREA IS DESIGNATED ON THESE PLANS, AN OFF-SITE STAGING AREA SHALL BE PROVIDED BY THE CONTRACTOR AT THE CONTRACTOR'S EXPENSE, OR THE CONTRACTOR MAY NEGOTIATE WITH THE OWNER TO USE AN ON-SITE AREA.
- 10. THE CONTRACTOR SHALL BE RESPONSIBLE FOR DETERMINING, IN ADVANCE OF HIS/HER CONSTRUCTION OPERATIONS, IF OVERHEAD UTILITY LINES, SUPPORT STRUCTURES, POLES, GUYS, ETC., ARE AN OBSTRUCTION TO CONSTRUCTION OPERATIONS. IF ANY OBSTRUCTION IS EVIDENT, THE CONTRACTOR SHALL BE RESPONSIBLE FOR COORDINATING WITH THE APPROPRIATE UTILITY OWNER TO REMOVE OR SUPPORT THE UTILITY OBSTRUCTION. ANY COSTS ASSOCIATED WITH THIS EFFORT SHALL BE THE SOLE RESPONSIBILITY OF THE CONTRACTOR.
- 11. FACILITIES WHICH ARE NOT SPECIFICALLY LOCATED WITH ACTUAL VERTICAL AND HORIZONTAL CONTROLS ON THE CONSTRUCTION DOCUMENTS, ARE SHOWN APPROXIMATE AND IN ACCORDANCE WITH THE BEST AVAILABLE INFORMATION PROVIDED BY VARIOUS OWNERS OF THE FACILITIES, AND SUPPLEMENTED BY VISUAL SURFACE INFORMATION WHERE APPROPRIATE. ACCURACY, LOCATION, AND COMPLETENESS OF THIS INFORMATION IS THE SOLE RESPONSIBILITY OF THE CONTRACTOR AND SHOULD BE VERIFIED. BY ANY MEANS NECESSARY. PRIOR TO THE INITIATION OF CONSTRUCTION. SHOULD A CONFLICT EXIST, THE CONTRACTOR SHALL NOTIFY THE OWNER AT 505-892-7246 IMMEDIATELY.
- 12. IT IS MANDATORY THAT A PRE-CONSTRUCTION MEETING BE HELD PRIOR TO COMMENCING CONSTRUCTION. THE CONTRACTOR IS RESPONSIBLE FOR CONTACTING THE OWNER AT 505-892-7246 TO DETERMINE THE TIME AND LOCATION OF THE PRE-CONSTRUCTION MEETING.
- 13. AT THE PRE-CONSTRUCTION MEETING, THE CONTRACTOR SHALL SUBMIT A DETAILED CONSTRUCTION SCHEDULE TO THE OWNER.
- 14. ANY WORK PERFORMED WITHOUT THE APPROVAL OF THE OWNER AND/OR ALL WORK AND MATERIALS NOT IN CONFORMANCE WITH THE SPECIFICATIONS IS SUBJECT TO REMOVAL AND REPLACEMENT AT THE CONTRACTOR'S EXPENSE.
- 15. THE CONTRACTOR SHALL PROVIDE ADEQUATE MEANS FOR CLEANING TRUCKS AND/OR OTHER EQUIPMENT OF MUD PRIOR TO ENTERING PUBLIC STREETS. IT IS THE CONTRACTOR'S RESPONSIBILITY TO CLEAN STREETS AND TAKE WHATEVER MEASURES ARE NECESSARY TO ENSURE THAT ALL ROADS ARE MAINTAINED IN A CLEAN. MUD AND DUST-FREE CONDITION AT ALL TIMES.
- 16. THE CONTRACTOR SHALL CONTACT NEW MEXICO ONE CALL AT 811 OR 1-800-321-2537, FIVE (5) WORKING DAYS PRIOR TO CONSTRUCTION FOR UTILITY SPOTS IN ACCORDANCE WITH APPLICABLE STATE LAW.
- 17. CONTRACTOR WILL NOTIFY THE OWNER AT 505-892-7246 A MINIMUM OF TWO (2) WORKING DAYS PRIOR TO COMMENCEMENT OF WORK.
- 18. THE CONTRACTOR SHALL CONFINE HIS WORK TO WITHIN THE CONSTRUCTION LIMITS AND/OR PUBLIC RIGHTS-OF-WAY TO PRESERVE EXISTING VEGETATION, LANDSCAPING, AND PRIVATE PROPERTY. APPROVAL OF THESE PLANS DOES NOT GIVE OR IMPLY ANY PERMISSION TO TRESPASS OR WORK ON PRIVATE PROPERTY. PERMISSION MUST BE GRANTED IN WRITING BY THE OWNER OF THAT PROPERTY.
- 19. IT IS THE SOLE RESPONSIBILITY OF THE CONTRACTOR TO KEEP THE JOB SITE FREE FROM TRASH ON A DAILY BASIS, AND ALL MATERIALS WILL BE NEATLY ORGANIZED. TRASH AND/OR NON-USED MATERIALS SHALL NOT BE BURIED ON-SITE.
- 20. CONTRACTOR SHALL PARK EQUIPMENT AND VEHICLES SO AS NOT TO INTERFERE WITH NORMAL ACTIVITIES OF RESIDENTS OR OTHER CONTRACTORS ON SITE.

### GENERAL NOTES (CONTINUED)

- 21. CONTRACTOR SHALL PROVIDE CONSTRUCTION STAKING UTILIZING APPROVED CONSTRUCTION PLANS, THE APPROPRIATE RIGHT-OF-WAY MAPS AND RECORDED PLATS, EACH REVISION TO THE PLANS SHALL BE RECORDED IN THE PLAN REVISION BLOCK. PLANS SHALL INCLUDE LOCATION MAP WITH LEGAL DESCRIPTION AND LOCATION GRID.
- 22. THE CONTRACTOR SHALL MAINTAIN AN UP TO DATE SET OF AS-BUILT PLANS FOR THE PROJECT. THE FINAL AS-BUILT PLANS, REFLECTING ANY AND ALL CHANGES TO THE ORIGINAL PLAN, SHALL BE SUBMITTED TO THE OWNER PRIOR TO FINAL PAYMENT.
- 23. THE CONTRACTOR SHALL ENSURE THAT ALL CONSTRUCTION ACTIVITIES, PERMITTING, AND SUBMITTALS ARE IN ACCORDANCE WITH THE SSCAFCA AND/OR JURISDICTIONAL AUTORITY ORDINANCES.
- 24. NO WORK SHALL BE PERFORMED IN A FEMA FLOODPLAIN WITHOUT WRITTEN AUTHORIZATION FROM THE LOCAL FLOODPLAIN MANAGER.
- 25. CONTRACTOR IS RESPONSIBLE FOR PROTECTION OF HIS WORK FROM STORMWATER FLOWS AS OUTLINED IN THE SUPPLEMENTAL TECHNICAL SPECIFICATIONS PROVIDED IN THE CONTRACT DOCUMENTS.
- 26. UNLESS OTHERWISE SPECIFIED, ALL CONCRETE SHALL BE A MINIMUM OF 3,000 PSI.
- 27. IF APPLICABLE, THE CONTRACTOR SHALL COMPLY WITH ALL CONSTRUCTION RELATED REQUIREMENTS OF THE PROJECT'S CORP OF ENGINEERS 404 PERMIT. COPIES OF THE PERMIT TERMS MAY BE OBTAINED FROM THE OWNER.

### EROSION CONTROL / ENVIRONMENTAL PROTECTION / STORMWATER POLLUTION PREVENTION PLAN

- 1. THE CONTRACTOR SHALL BE RESPONSIBLE FOR FULFILLING ALL NECESSARY NATIONAL POLLUTANT DISCHARGE ELIMINATION SYSTEM (NPDES) REQUIREMENTS INCLUDING, BUT NOT LIMITED TO, PREPARING A STORM WATER POLLUTION PREVENTION PLAN (SWPPP), OBTAINING AN NPDES PERMIT PRIOR TO CONSTRUCTION, FILLING OUT THE NOTICE OF INTENT (NOI) APPLICATION, AND FILLING OUT THE NOTICE OF TERMINATION (NOT) APPLICATION. THE CONTRACTOR SHALL ALSO BE RESPONSIBLE FOR THE IMPLEMENTATION OF AND INSPECTION REPORTS FOR THE SWPPP.
- 2. THE CONTRACTOR SHALL SUBMIT THE SWPPP WITH THE PROPOSED CONSTRUCTION STAGING AREA AND TEMPORARY SANITARY FACILITIES CLEARLY SHOWN. ANY CHECK DAMS, SILT FENCES, OR OTHER BEST MANAGEMENT PRACTICES (BMPS) THAT ARE REQUIRED IN THE APPROVED SWPPP SHALL BE INCLUDED IN, AND ARE INCIDENTAL TO, THE NPDES/SWPPP BID ITEM.
- 3. THE CONTRACTOR SHALL MAINTAIN A COPY OF THE APPROVED SWPPP ON-SITE AT ALL TIMES AND SHALL COMPLY WITH THE REQUIREMENTS INDICATED ON THAT PLAN AND SHALL PROVIDE AN ADDITIONAL FULLY EXECUTED COPY TO THE OWNER.
- 4. THE CONTRACTOR SHALL EITHER PROMPTLY REMOVE ANY MATERIAL EXCAVATED WITHIN THE PUBLIC RIGHT-OF-WAY OR INSTALL BMPS IDENTIFIED IN THE APPROVED SWPPP TO PREVENT DISCHARGE OF EXCAVATED MATERIAL WITHIN THE PUBLIC RIGHT-OF-WAY DURING A RAIN OR WIND EVENT.
- 5. THE CONTRACTOR SHALL IMPLEMENT THE APPROVED SWPPP, IF APPLICABLE, AND ENSURE THAT NO SOIL ERODES FROM THE SITE INTO PUBLIC RIGHT-OF-WAY OR ONTO PRIVATE PROPERTY.
- 6. THE CONTRACTOR SHALL MITIGATE EROSION OF TEMPORARY OR PERMANENT DIRT SWALES BY INSTALLING BMPS IDENTIFIED IN THE APPROVED SWPPP IN THE SWALES PERPENDICULAR TO THE DIRECTION OF FLOW. AND AT INTERVALS AS SPECIFIED IN THE SWPPP.
- 7. CONSTRUCTION AREAS SHALL BE WATERED FOR DUST CONTROL. THE CONTRACTOR SHALL BE RESPONSIBLE FOR LOCATING AND SUPPLYING WATER AS REQUIRED. WATERING, AS REQUIRED FOR CONSTRUCTION AND DUST CONTROL, SHALL BE CONSIDERED INCIDENTAL TO CONSTRUCTION AND NO MEASUREMENT OR PAYMENT SHALL BE MADE THEREFOR.
- 8. ANY AREAS DISTURBED BY CONSTRUCTION AND NOT COVERED BY AN IMPERVIOUS SURFACE AND EARTH DISTURBING ACTIVITIES WILL NOT RESUME WITHIN 14 DAYS, STABILIZATION MEASURES MUST BE INITIATED.
- 9. ALL WASTE PRODUCTS FROM THE CONSTRUCTION SITE, INCLUDING ITEMS DESIGNATED FOR REMOVAL, CONSTRUCTION WASTE, CONSTRUCTION EQUIPMENT WASTE PRODUCTS (OIL, GAS, TIRES. ETC.) GARBAGE, GRUBBING, EXCESS CUT MATERIAL, VEGETATIVE DEBRIS, ETC. SHALL BE APPROPRIATELY DISPOSED OF OFF-SITE AT NO ADDITIONAL COST TO THE OWNER. IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO OBTAIN PERMITS REQUIRED TO HAUL OR DISPOSE OF WASTE PRODUCTS. IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO ENSURE THAT THE WASTE DISPOSAL SITE COMPLIES WITH GOVERNMENT REGULATIONS REGARDING THE ENVIRONMENT, ENDANGERED SPECIES, AND ARCHAEOLOGICAL RESOURCES.
- 10. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE CLEANUP AND REPORTING OF SPILLS OF HAZARDOUS MATERIALS ASSOCIATED WITH THE CONSTRUCTION SITE. HAZARDOUS MATERIALS INCLUDE GASOLINE, DIESEL FUEL, MOTOR OIL, SOLVENTS, CHEMICALS, PAINTS, ETC. WHICH MAY OR PRESENT SPILLS TO THE NEW MEXICO ENVIRONMENT DEPARTMENT EMERGENCY RESPONSE TEAM AT 505-827-9329.
- AND UNDERGROUND WATER. CONTACT WITH SURFACE WATER BY CONSTRUCTION EQUIPMENT SHALL BE PERFORMED IN AN ENVIRONMENTALLY SAFE MANNER IN COMPLIANCE WITH GOVERNMENT REGULATIONS.
- 12. THE CONTRACTOR SHALL COMPLY WITH ALL APPLICABLE REGULATIONS CONCERNING CONSTRUCTION NOISE AND HOURS OF OPERATION.
- 13. WHERE STORM INLETS ARE SUSCEPTIBLE TO INFLOW OF SILT OR DEBRIS FROM CONSTRUCTION ACTIVITIES, PROTECTION SHALL BE PROVIDED ON THEIR UPSTREAM SIDE UTILIZING BMPS IDENTIFIED IN THE APPROVED SWPPP.

### SOILS

1. UNLESS OTHERWISE SPECIFIED SUBGRADE SOILS AND STRUCTURAL FILL MATERIALS SHALL BE COMPACTED TO THE FOLLOWING PERCENTAGES OF THE ASTM D-1557 MAXIMUM DENSITY.

	PERCENT (%)
MATERIALS	<b>COMPACTION</b>
STRUCTURAL FILL IN THE BUILDING AREA	95
SUB BASE FOR SLAB SUPPORT	95
MISCELLANEOUS BACKFILL BELOW STRUCTURAL	
FILL OR ROAD	95
MISCELLANEOUS BACKFILL BELOW UNPAVED,	
NON-BUILDING AREAS	90
ROAD SUB GRADE	95
SIDEWALK / TRAIL SUB GRADE	95
CURB AND GUTTER SUBGRADE	95

2. AT ALL FINAL GRADES, WITH THE EXCEPTION OF AREAS WITH IMPROVEMENTS, SHALL BE DISKED OR RIPPED TO A DEPTH OF 12" TO FACILITATE PLANT GROWTH.

### UTILITY COMPANY CONTACTS

### **CITY OF RIO RANCHO UTILITIES DEPARTMENT** STEVE GALLEGOS

DEPUTY DIRECTOR OF UTILITIES 3200 CIVIC CENTER CIRCLE NE, SUITE 250 RIO RANCHO, NEW MEXICO 87124 896-8715 SGALLEGOS@RNNM.GOV

PNM-ELECTRIC PAUL DUNAGAN ENGINEERING REPRESENTATIVE 4201 EDITH BLVD, NEW MS-ES10 ALBUQUERQUE, NEW MEXICO 87107 (505) 241-3629

CENTURY LINK DON DAVALOS ENGINEER II 4301 BOGAN AVE NE ALBUQUERQUE, NEW MEXICO 87109 (505) 245-8967

CENTURY LINK NATIONAL LARRY KELLY SENIOR OPERATIONS TECHINICAN 400 TIJERAS AVE NW SUITE 570 ALBUQUERQUE, NEW MEXICO 87102 (505) 246-0501

COMCAST CABLE MIKE MORTUS PLANNING AND DESIGN SUPERVISOR 8440 WASHINGTON ST NE ALBUQUERQUE, NEW MEXICO 87107 (505) 271-3644 mike\_mortus@cable.comcast.com

AT&T SEAN KELLY GNFO - MANAGER - NEW MEXICO 111 THIRD ST NW ALBUQUERQUE, NEW MEXICO 87102 (505) 217-0038

WINDSTREAM RICHARD MUELLER SUPERVISOR AT OUTSIDE TECHS 505 MARQUETTE AVE NW SUITE 1600 ALBUQUERQUE, NEW MEXICO 87102

LEVEL 3 COMMUNICATIONS LLC ALAN SMITH RESOURCE SUPERVISOR 1025 ELDORADO BLVD BROOMFIELD, COLORADO 80021 (918) 547-0050 centurylinknationalosp@centuryline.com

VERIZON/MCI WORLDCOM MATT STURGIS ADVANCED TELECOM TECHNICIAN 6001 MIDWAY PARK BLVD NE ALBUQUERQUE, NEW MEXICO 87109 (505) 348-8613

NM GAS COMPANY CHRIS MONETTE, AREA MANGER RUBEN SOSA, SUPERVISOR 7120 WYOMING BLVD NE #20 ALBUQUERQUE, NEW MEXICO 87109 (505) 697-3188

SHALL BE REVEGETATED WITH NATIVE GRASS SEEDING. WHEN CONSTRUCTION ACTIVITIES CEASE

BE A THREAT TO THE ENVIRONMENT. THE CONTRACTOR SHALL REPORT THE DISCOVERY OF PAST

11. THE CONTRACTOR SHALL COMPLY WITH ALL APPLICABLE REGULATIONS CONCERNING SURFACE AND PERSONNEL SHALL BE MINIMIZED. EQUIPMENT MAINTENANCE AND REFUELING OPERATIONS

ABBREVIATION	S		
AP	 ANALYSIS POINT	C A	F
@ BC	AT BEGIN CURVE	19	
BCR BK	BEGIN CURB RETURN BOOK		
BLDG	BUILDING		
BM BOA	BENCH MARK BEGINNING OF ALIGNMENT		
BOP	BEGINNING OF PROJECT		`
BVC BW	BEGIN VERTICAL CURVE BASE OF WALL		
CATV CB	CABLE TV LINE CATCH BASIN		NN
CF	CURB FACE	T	
CFS CG	CUBIC FEET PER SECOND CURB AND GUTTER	Southern	Sandoval
CLF	CHAIN LINK FENCE	Cou	ntv
ନ୍ CMP	CENTERLINE CORRUGATED METAL PIPE	Arroyo Flo	
CO	CLEAN OUT	-	
CONC CORR	CONCRETE CITY OF RIO RANCHO	Auth 1041 Comme	
CY DUE	CUBIC YARDS DRAINAGE UTILITY EASEMENT	Rio Rancho, Nev	
DI	DROP INLET	505-892-R/	
DIA Δ	DIAMETER DELTA	505-892-7	· · · ·
ĒA	EACH	WWW.SSC	afca.com
EC ECR	END CURVE END CURB RETURN		
ELEV EOA	ELEVATION END OF ALIGNMENT		
EOP	END OF PROJECT		
EP ESMT	EDGE OF PAVEMENT EASEMENT	NORES SA	NCH
EST	ESTIMATE	A A A	12/2
EVC EW	END VERTICAL CURVE EACH WAY	2036	Jar 1
EXIST	EXISTING	/11x 30 6/14/	22
FF FG	FINISH FLOOR FINISH GRADE	AUGROFISSIONAL	END
FH	FIRE HYDRANT		55 <sup>277</sup>
<mark>፻</mark> FOC	FLOW LINE FACE OF CURB		
FP	FINISHED PAD		
FPS G	FEET PER SECOND GAS		
GM	GAS METER		
GV HORIZ	GATE VALVE HORIZONTAL		
INT	INTERSECTION		
INV INV EL	INVERT INVERT ELEVATION	<u> </u>	
LF		$\neq$ (0	S
LP LT	LIGHT POLE LEFT	DWER IVORY CHANNE IMPROVEMENTS	GENERAL NOTES
MH		Т Z	TC
MID NG	MID-POINT NATURAL GROUND		ž
OC OHE	ON CENTER OVER HEAD ELECTRIC	Ц Х Ц	Ļ
PB	PULL BOX	5 Z	A A A
PC PCC	POINT OF CURVATURE POINT OF COMPOUND CURVATURE	$\geq 2$	Ш
PG	PAGE	R <u>F</u>	Z
PGL PI	PROFILE GRADE LINE POINT OF INTERSECTION	<b>₩</b> 2	Э
ዋ	PROPERTY LINE	$\leq$	J
PRC PT	POINT OF REVERSE CURVATURE POINT OF TANGENCY		
PUE	PUBLIC UTILITY EASEMENT		
PVC PVMT	POLYVINYL CHLORIDE PIPE PAVEMENT		
Q	100 YEAR PEAK DISCHARGE		
QTY RAD	QUANTITY RADIUS		
RCP	REINFORCED CONCRETE PIPE	REVISI	
RD REF	ROOF DRAIN REFERENCE		
RP RT	RADIUS POINT RIGHT	MARK DESCRIP	TION DATE
R/W,ROW	RIGHT-OF-WAY		
S SAS, SS	SLOPE SANITARY SEWER LINE		
SD	STORM DRAIN		
SF STA	SQUARE FEET STATION		
STD	STANDARD		
SW SY	SIDEWALK SQUARE YARDS		
Т	TANGENT		
TA TAC	TOP OF ASPHALT TOP OF ASPHALT CURB		
TBC TC	TOP BACK OF CURB TOP OF CONCRETE		
TEL	TELEPHONE LINE, RISER OR BOX		
TP TRANS	TOP OF PIPE TRANSVERSE	PROJECT NO:	BL_P0014-02
TW	TOP OF WALL	DESIGNED BY:	JN
TYP UE	TYPICAL UNDERGROUND ELECTRICAL LINE	DRAWN BY:	KLF
UT	UNDERGROUND TELEPHONE LINE	CHECKED BY:	AES
V VC	VELOCITY VERTICAL CURVE		8/15/2022
VERT	VERTICAL		J, . J, LVLL
VPI W	VERTICAL POINT OF INTERSECTION WATER LINE		
WM	WATER METER	2	
WQ WSEL	WATER QUALITY WATER SURFACE ELEVATION		-
WV	WATER VALVE	<u></u>	
		SHEET	2 OF 17

### SURVEY LEGAL DESCRIPTION:

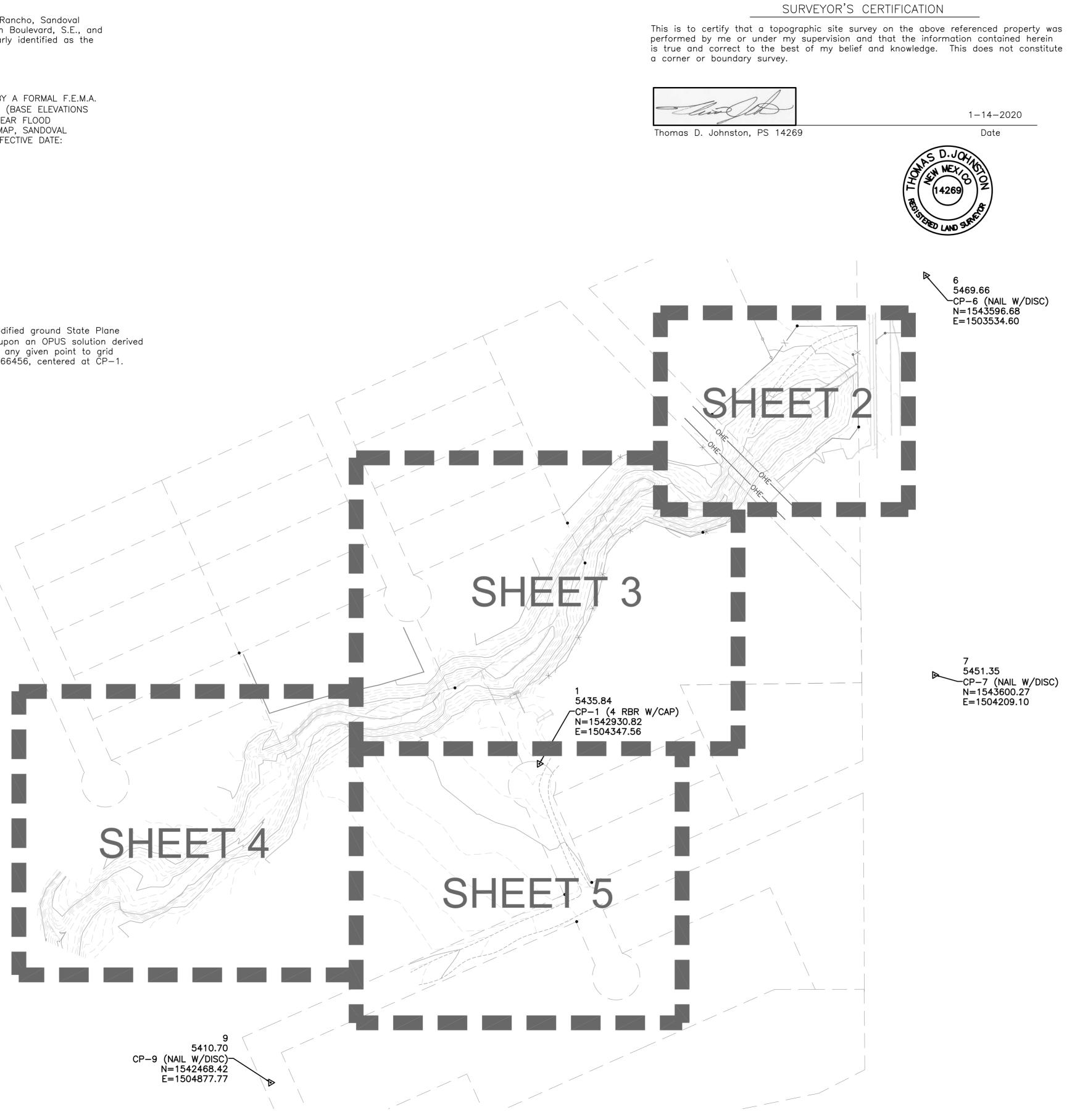
A portion of land located within the City of Rio Rancho, Sandoval County, New Mexico, being just south of Southern Boulevard, S.E., and west of Velasquez Road, S.E., and more particularly identified as the lvory Channel.

### FLOOD INFORMATION:

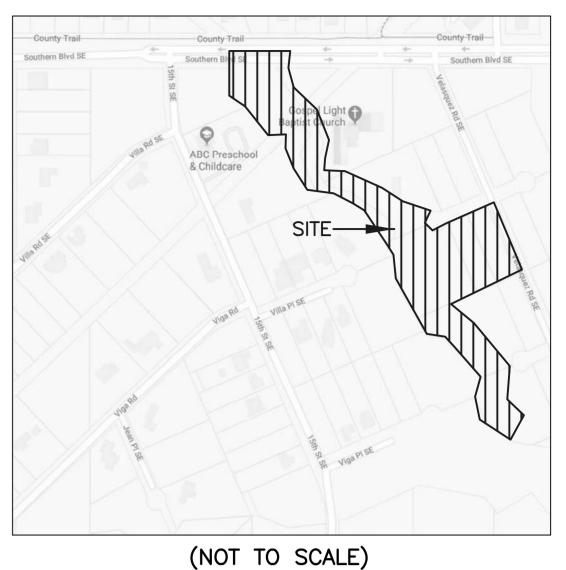
THIS PROPERTY DOES LIE IN AN AREA COVERED BY A FORMAL F.E.M.A. FLOOD STUDY. PROPERTY LIES WITHIN ZONE "AE" (BASE ELEVATIONS 5395.05 TO 5465.25) AND IS SUBJECT TO 100-YEAR FLOOD HAZARDS. REFERENCE: FLOOD INSURANCE RATE MAP, SANDOVAL COUNTY, NEW MEXICO PANEL 350146 2102 D; EFFECTIVE DATE: MARCH 18, 2008.

POINT NUMBER ELEVATION DESCRIPTION NORTHING EASTING

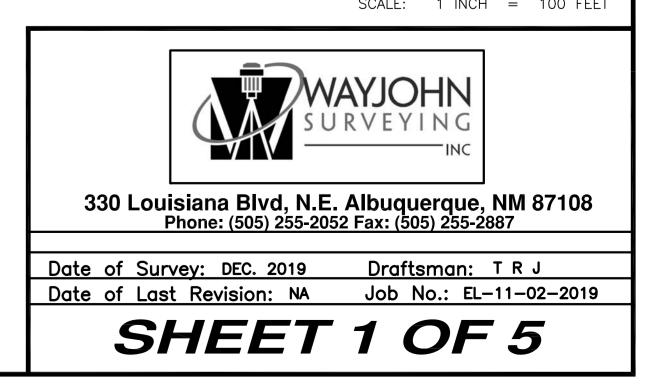
All control points shown hereon are in modified ground State Plane Coordinates (NAD 83 / NAVD 88), based upon an OPUS solution derived from static GPS observations. To translate any given point to grid coordinates, apply a scale factor of 0.99966456, centered at CP-1.

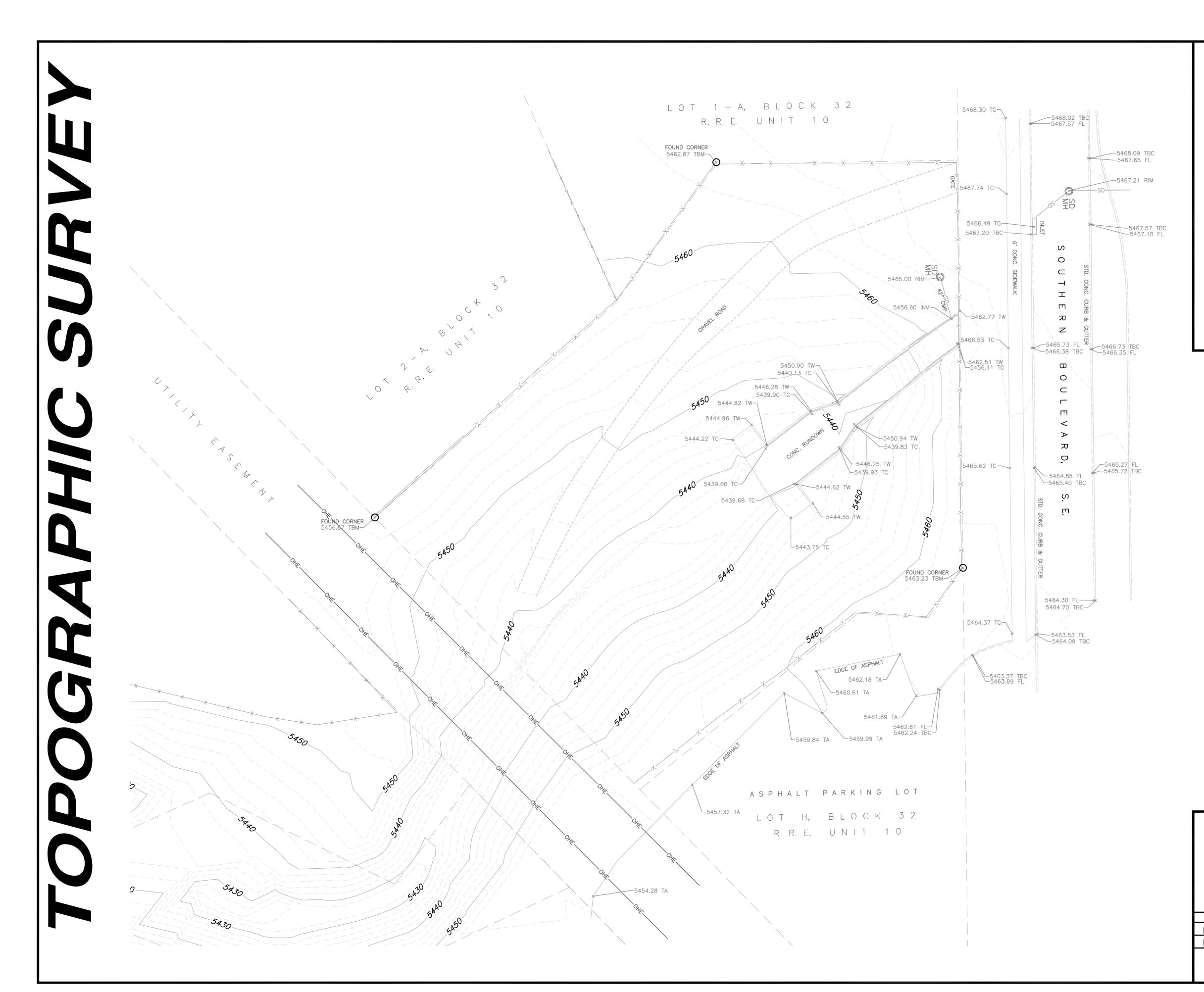


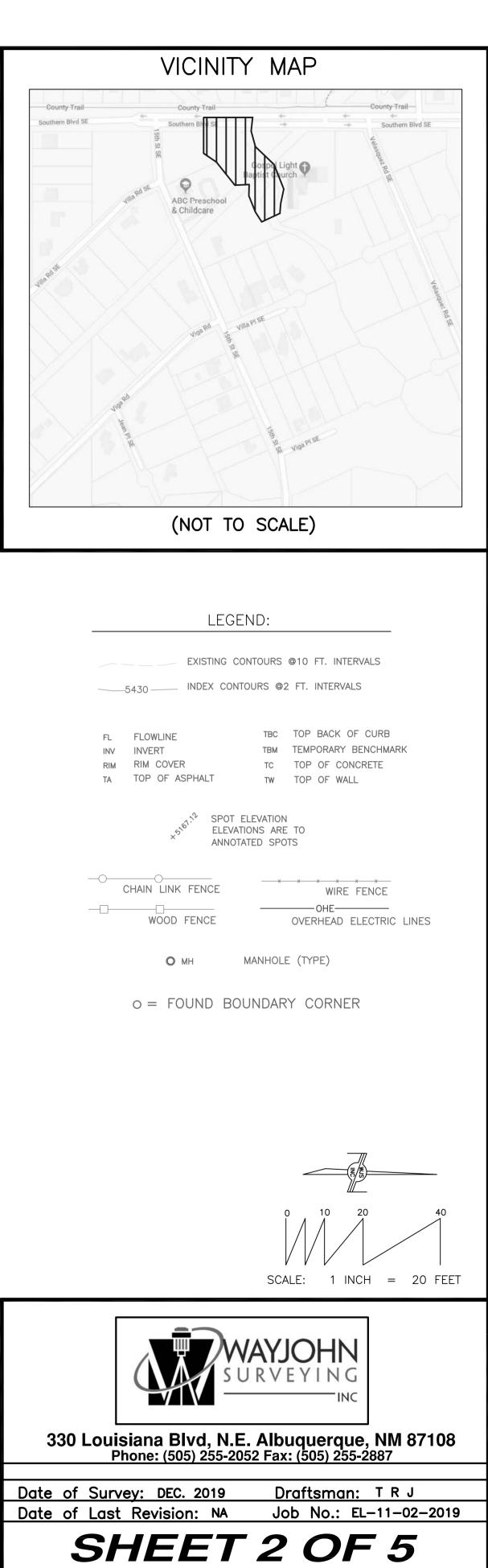
# VICINITY MAP

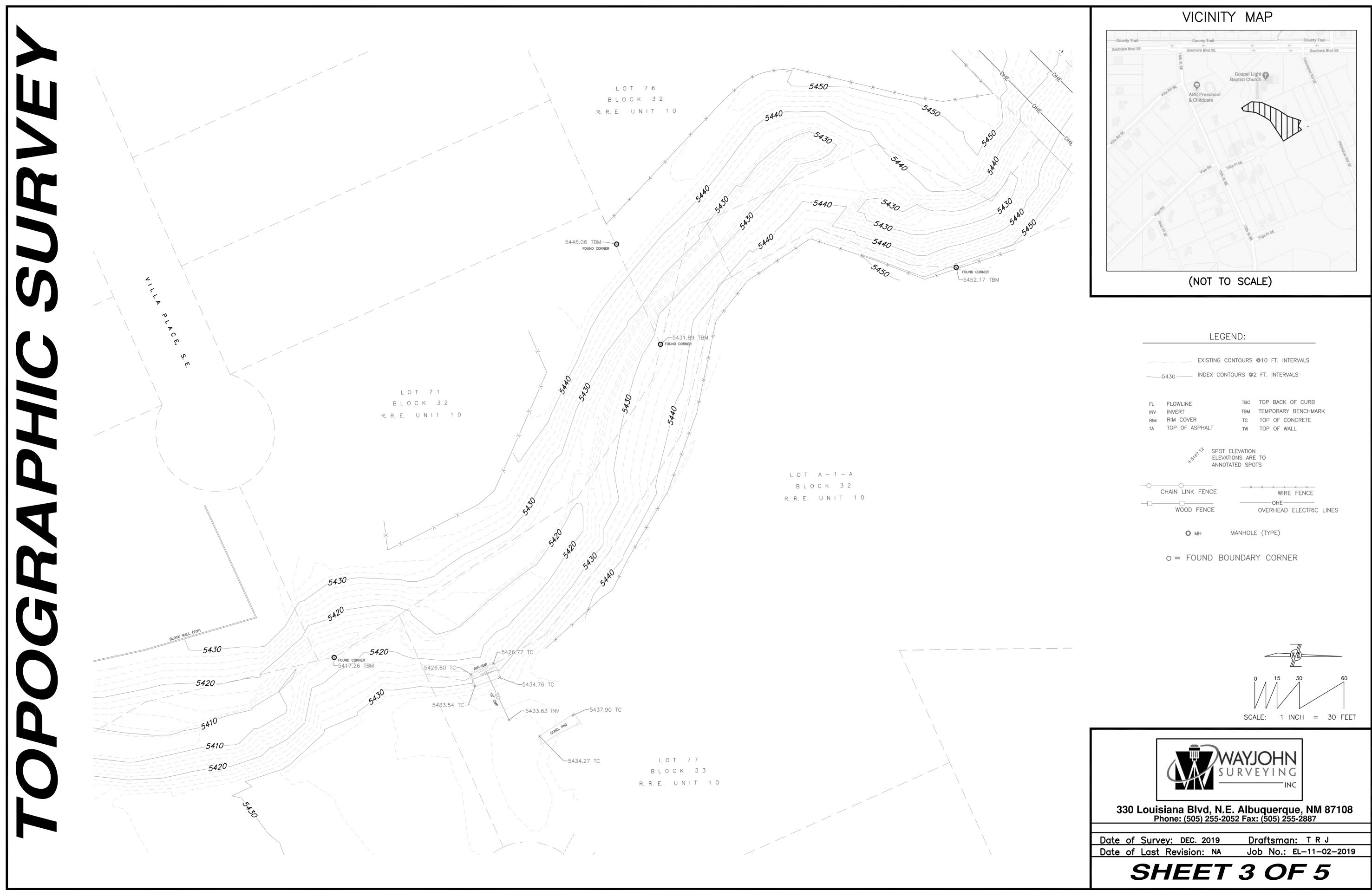


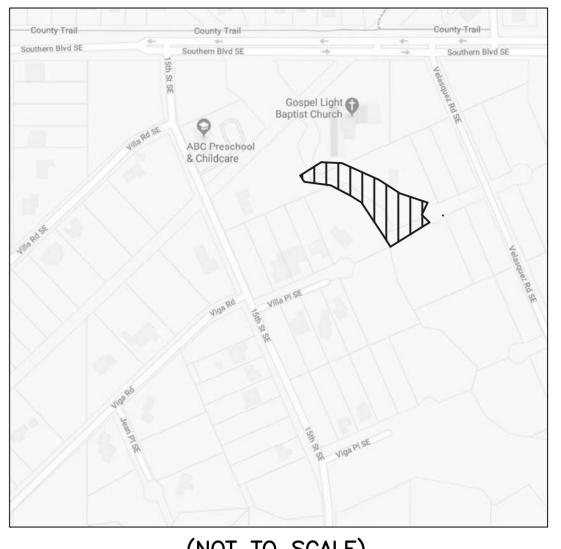
LEGE	ND:			
EXISTING CONTOURS @10 FT. INTERVALS 5430 INDEX CONTOURS @2 FT. INTERVALS				
FL FLOWLINE INV INVERT RIM RIM COVER TA TOP OF ASPHALT	TBC TOP BACK OF CURB TBM TEMPORARY BENCHMARK TC TOP OF CONCRETE TW TOP OF WALL			
్ర <sup>స్ల</sup> ` ELEVAT	ELEVATION IONS ARE TO ATED SPOTS			
CHAIN LINK FENCE	——————————————————————————————————————			
O MH MANHOLE (TYPE)				
O = FOUND BOUNDARY CORNER				





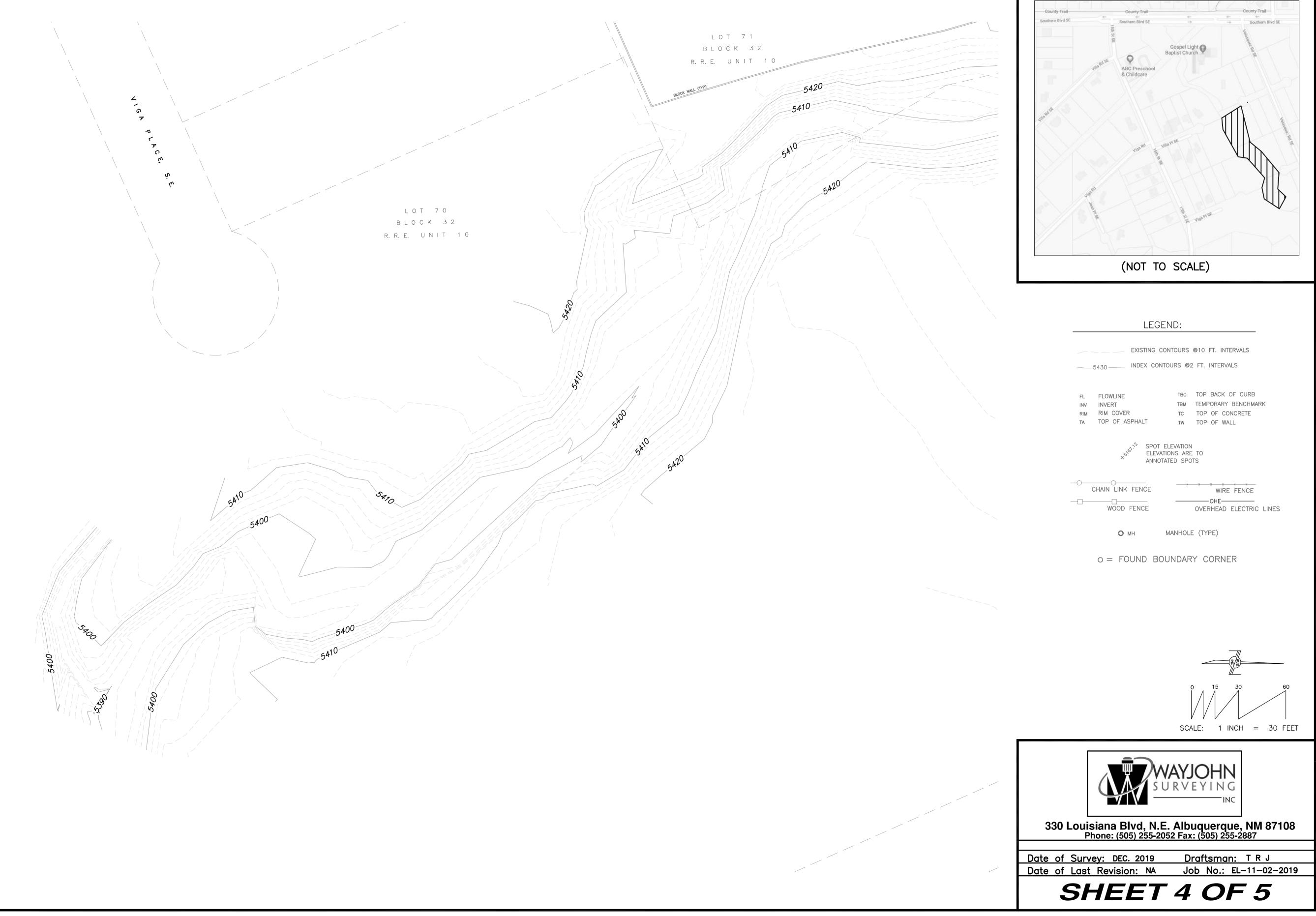




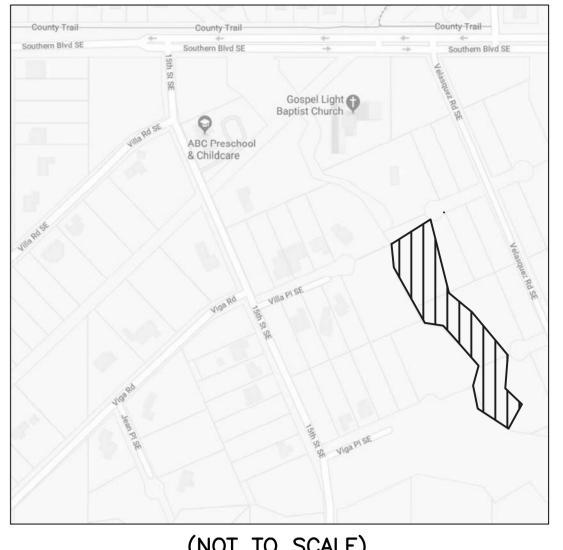


LEGEND:				
EXISTING CONTOURS	5 @10 FT. INTERVALS			
5430 INDEX CONTOURS				
INV INVERT TBM RIM RIM COVER TC	TOP BACK OF CURB TEMPORARY BENCHMARK TOP OF CONCRETE TOP OF WALL			
× <sup>ج بي</sup> SPOT ELEVATIONS AI ANNOTATED SF	RE TO			
OOO	WIRE FENCE			
WOOD FENCE	OVERHEAD ELECTRIC LINES			
O MH MANHO	LE (TYPE)			
o = Found bounda	RY CORNER			
₹ ₹ ₹ 6				
SC	$\begin{array}{c ccccccccccccccccccccccccccccccccccc$			
S U R V	<b>JOHN</b> (EYING			

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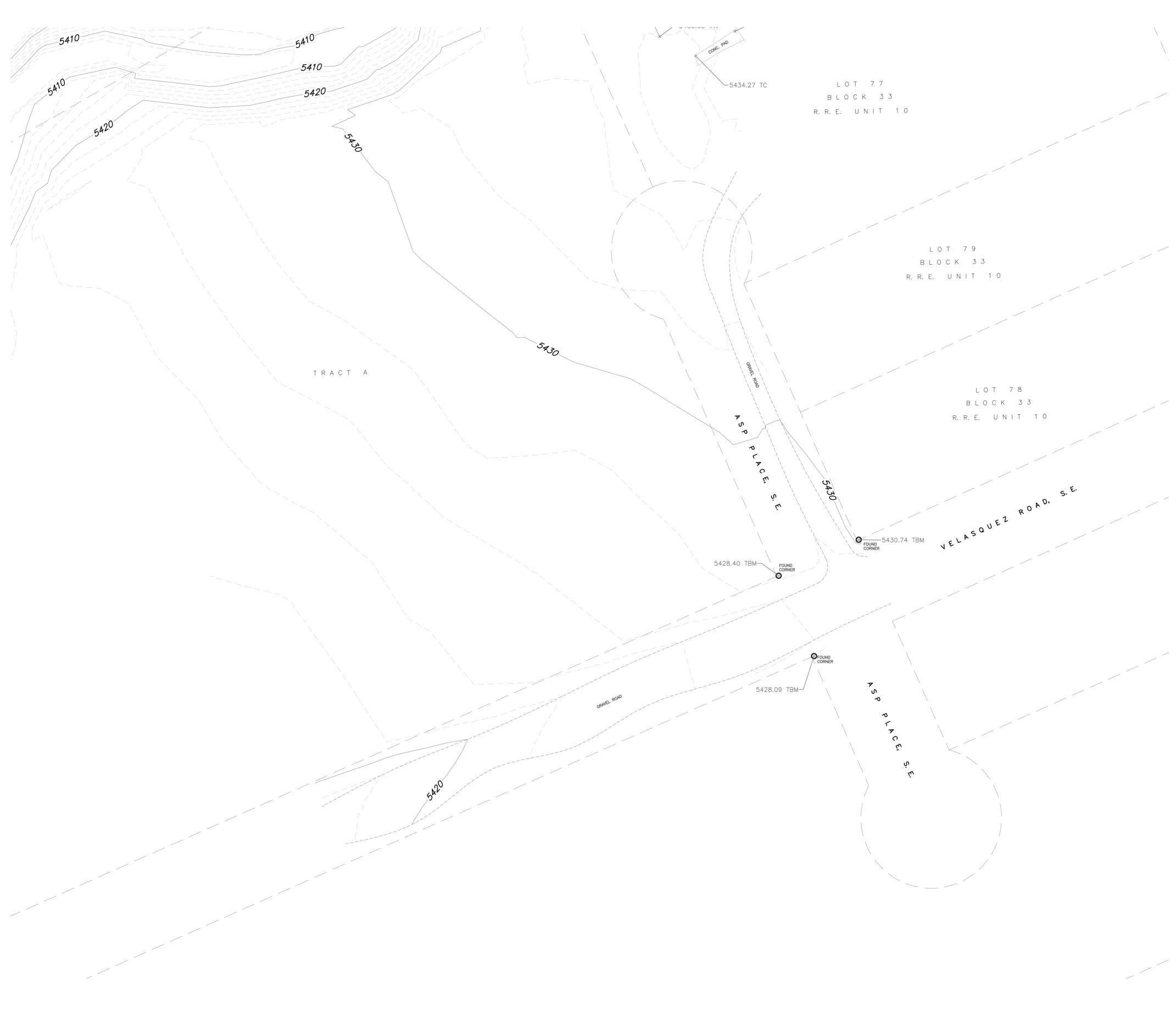


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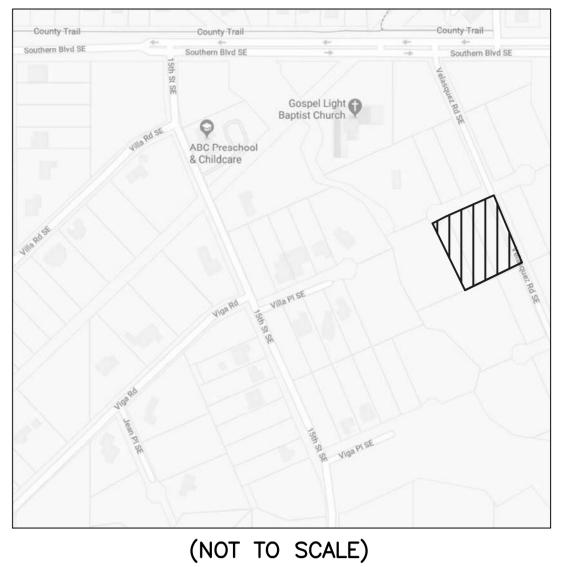


LEGEND:
EXISTING CONTOURS @10 FT. INTERVALS
FLFLOWLINETBCTOP BACK OF CURBINVINVERTTBMTEMPORARY BENCHMARKRIMRIM COVERTCTOP OF CONCRETETATOP OF ASPHALTTWTOP OF WALL
SPOT ELEVATION ELEVATIONS ARE TO ANNOTATED SPOTS
CHAIN LINK FENCE  CHAIN LINK FENCE  WIRE FENCE  WOOD FENCE  OVERHEAD ELECTRIC LINES
О MH MANHOLE (TYPE)
o = FOUND BOUNDARY CORNER
SCALE: 1 INCH = 30 FEET

# ' 🖪

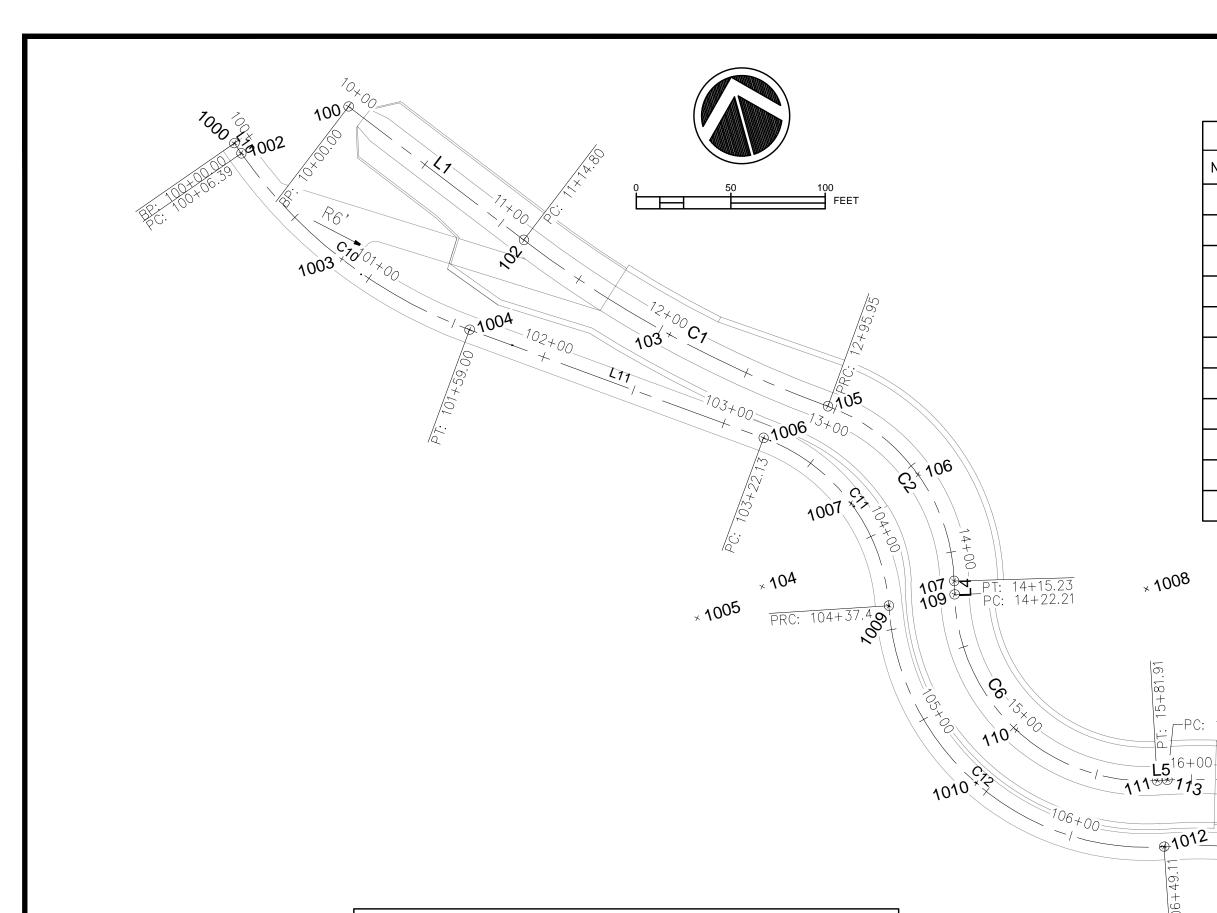


# VICINITY MAP



LEGEND:				
EXISTING CONTOURS @10 FT. INTERVALS 5430 INDEX CONTOURS @2 FT. INTERVALS				
FL FLOWLINE TBC TOP BACK OF CURB INV INVERT TBM TEMPORARY BENCHMARK RIM RIM COVER TC TOP OF CONCRETE TA TOP OF ASPHALT TW TOP OF WALL SPOT ELEVATION ELEVATIONS ARE TO ANNOTATED SPOTS				
CHAIN LINK FENCE WIRE FENCE 				
♥ MH MANHOLE (TYPE)				
o = FOUND BOUNDARY CORNER				
$0 \qquad 15 \qquad 30 \qquad 60$ $0 \qquad 15 \qquad 30 \qquad 60$ $SCALE: 1 INCH = 30 FEET$				
Louisiana Blvd, N.E. Albuquerque, NM 87108				

330 Louisiana Blvd, N.E. Albuquerque, NM 87108 Phone: (505) 255-2052 Fax: (505) 255-2887 Date of Survey: DEC. 2019 Date of Last Revision: NA Draftsman: T R J Job No.: EL-11-02-2019 SHEET 5 OF 5



ACCESS POINT TABLE				
Point #	Northing	Easting	Elevation	Description
1000	1543477.81	1503624.69	5467.22	ACCESS - 100+00.00 - BOA
1001	1543552.03	1503863.50		ACCESS - 100+06.39 - RP
1002	1543471.75	1503626.74	5466.77	ACCESS - 100+06.39 - PC
1003	1543404.32	1503661.81	5459.77	ACCESS - 100+82.69 - Mid
1004	1543350.54	1503715.52	5454.07	ACCESS - 101+59.00 - PT
1005	1543173.37	1503787.81		ACCESS - 103+22.13 - RP
1006	1543253.97	1503847.00	5451.30	ACCESS - 103+22.13 - PC
1007	1543208.67	1503881.37	5450.58	ACCESS - 103+79.79 - Mid
1008	1543123.18	1504016.87		ACCESS - 104+37.44 - RP
1009	1543151.97	1503885.49	5449.69	ACCESS - 104+37.44 - PRC
1010	1543050.46	1503903.72	5448.45	ACCESS - 105+43.27 - Mid
1011	1542731.70	1503932.31		ACCESS - 106+49.11 - RP
1012	1542991.71	1503988.47	5447.09	ACCESS - 106+49.11 - PRC
1013	1542957.20	1504073.41	5443.01	ACCESS - 107+41.25 - Mid
1014	1542596.51	1503760.02		ACCESS - 108+33.38 - RP
1015	1542895.91	1504141.58	5436.36	ACCESS - 108+33.38 - PCC
1016	1542803.73	1504198.52	5428.20	ACCESS - 109+41.95 - Mid
1017	1542765.98	1504526.51		ACCESS - 110+50.53 - RP
1018	1542701.22	1504233.58	5424.77	ACCESS - 110+50.53 - PRC
1019	1542657.91	1504246.65	5419.88	ACCESS - 110+95.80 - Mid
1020	1542617.06	1504266.08	5417.65	ACCESS - 111+41.08 - PT
1021	1542668.97	1504595.80		ACCESS - 112+59.70 - RP
1022	1542514.09	1504324.96	5413.01	ACCESS - 112+59.70 - PC
1023	1542459.93	1504364.19	5410.57	ACCESS - 113+26.70 - Mid
1024	1542252.81	1504297.55		ACCESS - 113+93.71 - RP
1025	1542415.37	1504414.06	5408.15	ACCESS - 113+93.71 - PRC
1026	1542378.88	1504452.81	5406.55	ACCESS - 114+47.09 - Mid
1027	1542333.47	1504480.57	5404.83	ACCESS - 115+00.48 - PT
1028	1542258.88	1504513.44	5404.61	ACCESS - 115+81.99 - EOA

× 10<sup>14</sup>

CHANNEL POINT TABLE				
Point #	Northing	Easting	Elevation	Description
100	1543479.74	1503687.15	5462.41	CHANNEL - 10+00.00 - BOA
101	1543745.46	1504237.21		CHANNEL – 11+14.80 – RP
102	1543387.59	1503755.62	5449.12	CHANNEL - 11+14.80 - PC
103	1543319.24	1503814.91	5447.58	CHANNEL - 12+05.37 - Mid
104	1543179.77	1503824.91		CHANNEL – 12+95.95 – RP
105	1543260.58	1503883.81	5446.04	CHANNEL - 12+95.95 - PRC
106	1543213.55	1503919.04	5445.02	CHANNEL - 13+55.59 - Mid
107	1543154.85	1503921.76	5444.01	CHANNEL – 14+15.23 – PT
108	1543123.18	1504016.87		CHANNEL - 14+22.21 - RP
109	1543148.09	1503920.02	5443.89	CHANNEL - 14+22.21 - PC
110	1543071.19	1503931.45	5442.53	CHANNEL - 15+02.06 - Mid
111	1543025.71	1503994.51	5441.17	CHANNEL – 15+81.91 – PT
112	1542732.11	1503932.63		CHANNEL – 15+87.26 – RP
113	1543024.51	1503999.71	5441.08	CHANNEL – 15+87.26 – PC
114	1542962.98	1504124.19	5435.13	CHANNEL - 17+27.38 - Mid
115	1542852.00	1504207.63	5424.75	CHANNEL – 18+67.51 – PT
116	1542658.23	1504564.82		CHANNEL – 21+87.87 – RP
117	1542558.33	1504335.65	5410.45	CHANNEL – 21+87.87 – PC
118	1542495.80	1504374.78	5403.93	CHANNEL - 22+61.89 - Mid
119	1542236.60	1504296.07		CHANNEL - 23+35.92 - RP
120	1542447.42	1504430.45	5403.37	CHANNEL - 23+35.92 - PRC
121	1542419.01	1504467.04	5403.01	CHANNEL - 23+82.31 - Mid
122	1542384.33	1504497.76	5397.59	CHANNEL – 24+28.71 – PT
123	1542286.48	1504569.43	5396.01	CHANNEL - 25+50.00 - EOA

<sup>7</sup> 1023

× 1017

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ACCESS					
Number	Radius	Length	Line/Chord Direction	Chord Length	Delta
L10		6.39	S18°43′48"E		
C10	250.00	152.61	S36°13'03"E	150.25	34°58'29"
L11		163.14	S53°42'17"E		
C11	100.00	115.30	S20°40′20"E	109.02	66°03'53"
C12	134.50	211.67	S32°43′32"E	190.50	90°10'15"
C13	266.00	184.27	S57° 57' 55"E	180.61	39°41'29"
C14	485.00	217.14	S25°17'36"E	215.33	25°39'08"
C15	300.00	90.56	S21°06'53"E	90.21	17°17'43"
L12		118.61	S29°45′44"E		
C16	312.00	134.01	S42°04'02"E	132.98	24°36'35"
C17	200.00	106.77	S39°04′42"E	105.51	30°35'14"
L13		81.51	S23°47′05"E		

CHANNEL

Line/Chord Direction

S36°36'57"E

S45°15'54"E

S19°44'37"E

S14°25'38"W

S31°19'32"E

S77°04'42"E

S50°18'59"E

S23°33'15"E

S40°31'12"E

S46°51'13"E

S36°13′17"E

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114

114.80

181.15

119.28

6.98

159.71

5.34

280.25

320.36

148.05

92.78

121.29

Chord Length Delta

7°17'55"

68°20'30"

91°30'21"

53° 31' 27"

33°55'54"

21°15'52"

×115

GF 1016

180.46

112.33

143.27

270.17

145.90

92.25

Number

L1

C1

C2

L4

C6

L5

C3

L2

C4

C5

L3

PC: 15+87.26

\_\_107+00\_\_\_

C73 1013

16+00

€1012

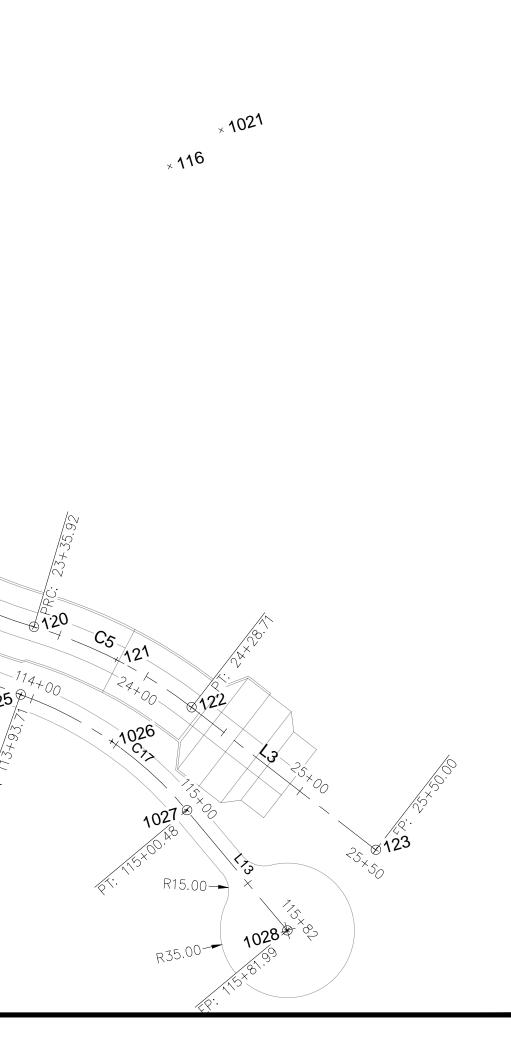
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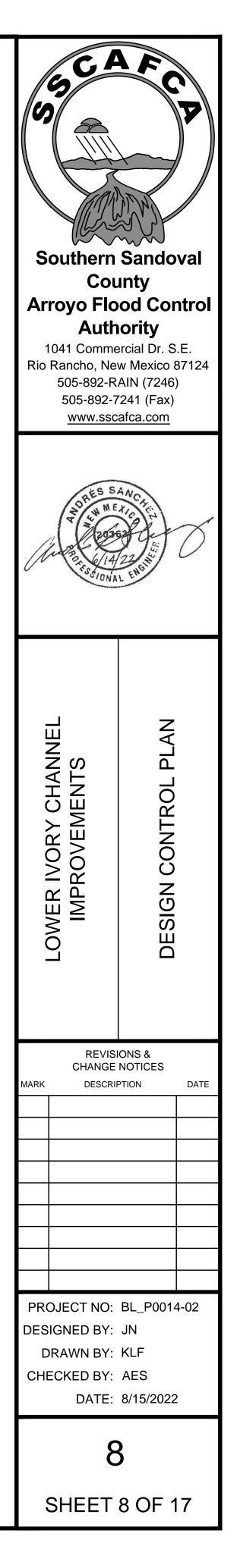
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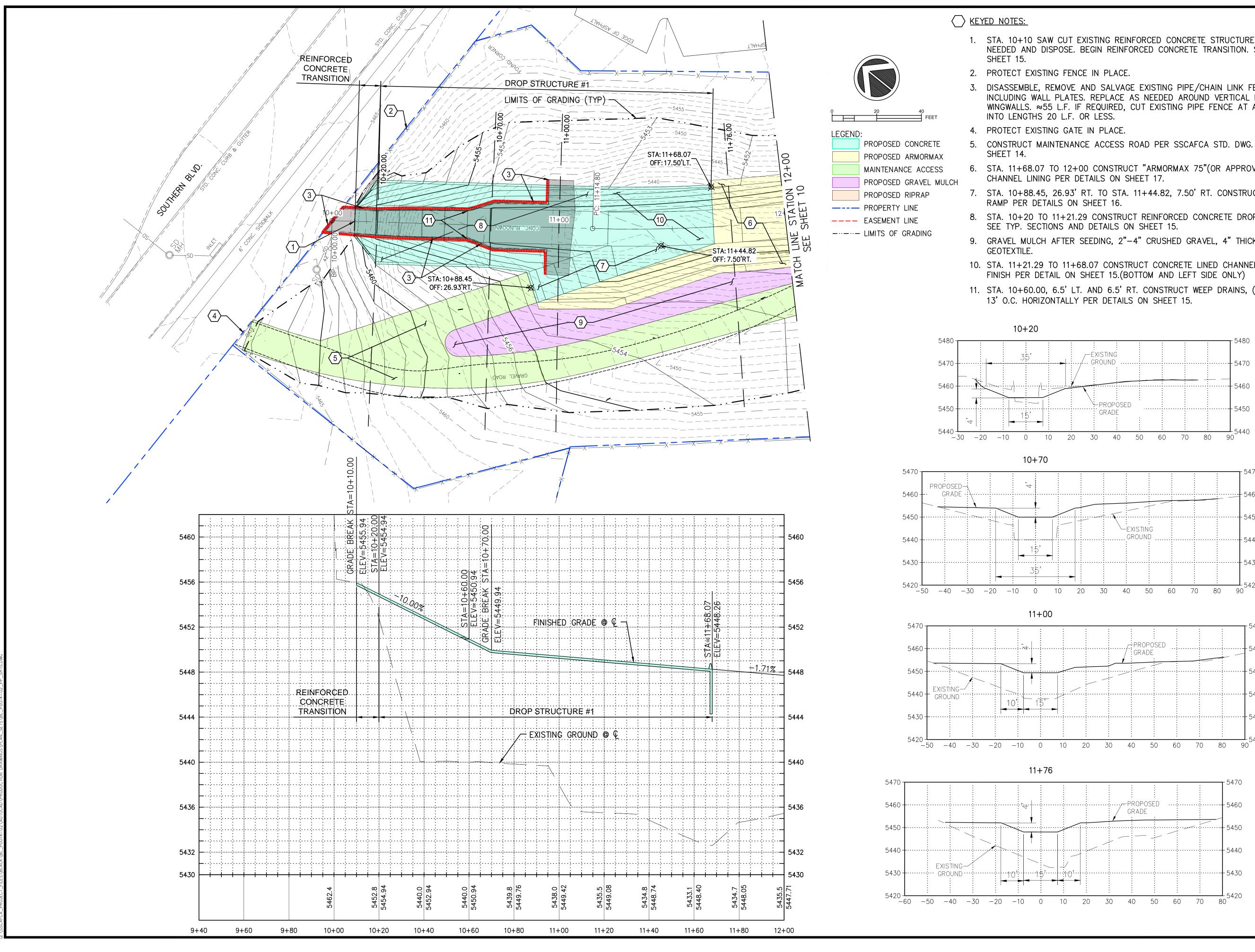
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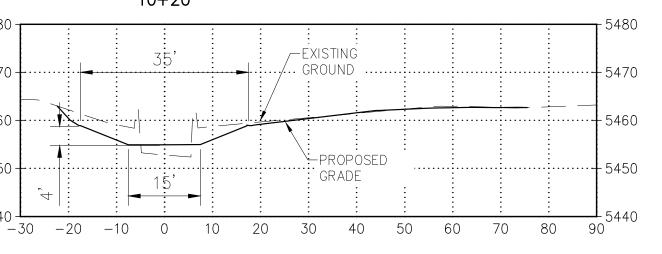


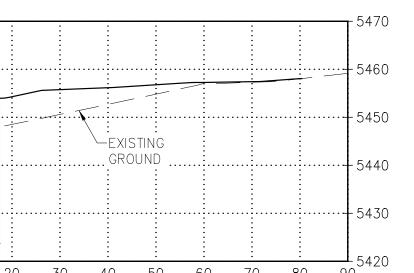


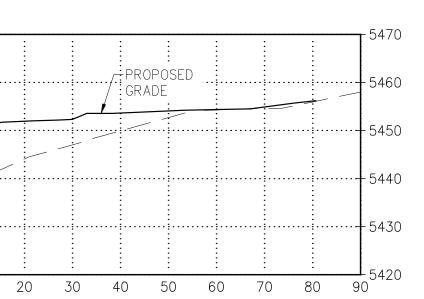


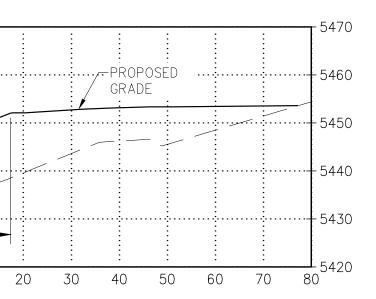
1. STA. 10+10 SAW CUT EXISTING REINFORCED CONCRETE STRUCTURE REMOVE AS NEEDED AND DISPOSE. BEGIN REINFORCED CONCRETE TRANSITION. SEE DETAIL ON

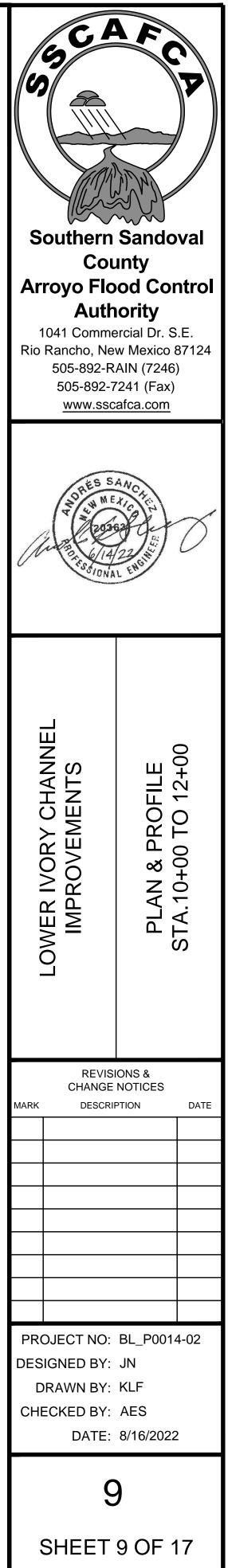
- 3. DISASSEMBLE, REMOVE AND SALVAGE EXISTING PIPE/CHAIN LINK FENCE, INCLUDING WALL PLATES. REPLACE AS NEEDED AROUND VERTICAL DROP AND WINGWALLS. ≈55 L.F. IF REQUIRED, CUT EXISTING PIPE FENCE AT ANGLE POINTS
- 5. CONSTRUCT MAINTENANCE ACCESS ROAD PER SSCAFCA STD. DWG. M102 ON
- 6. STA. 11+68.07 TO 12+00 CONSTRUCT "ARMORMAX 75"(OR APPROVED EQUAL)
- 7. STA. 10+88.45, 26.93' RT. TO STA. 11+44.82, 7.50' RT. CONSTRUCT CONCRETE
- 8. STA. 10+20 TO 11+21.29 CONSTRUCT REINFORCED CONCRETE DROP STRUCTURE SEE TYP. SECTIONS AND DETAILS ON SHEET 15.
- 9. GRAVEL MULCH AFTER SEEDING, 2"-4" CRUSHED GRAVEL, 4" THICK, NO
- 10. STA. 11+21.29 TO 11+68.07 CONSTRUCT CONCRETE LINED CHANNEL WITH TINED FINISH PER DETAIL ON SHEET 15.(BOTTOM AND LEFT SIDE ONLY)
- 11. STA. 10+60.00, 6.5' LT. AND 6.5' RT. CONSTRUCT WEEP DRAINS, (2) PLACED AT 13' O.C. HORIZONTALLY PER DETAILS ON SHEET 15.

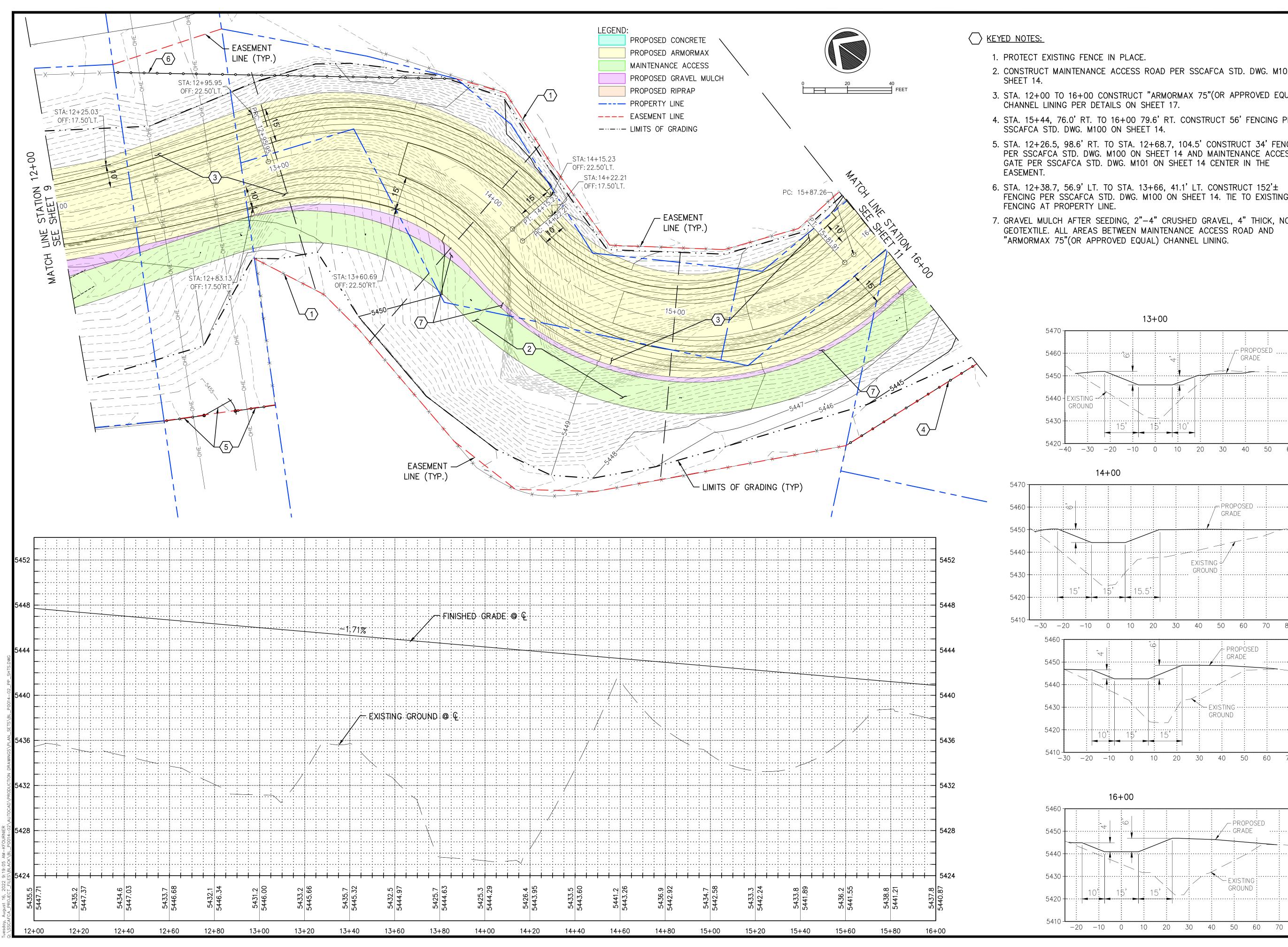












2. CONSTRUCT MAINTENANCE ACCESS ROAD PER SSCAFCA STD. DWG. M102 ON  $\overline{}$ 3. STA. 12+00 TO 16+00 CONSTRUCT "ARMORMAX 75"(OR APPROVED EQUAL) CHANNEL LINING PER DETAILS ON SHEET 17. 4. STA. 15+44, 76.0' RT. TO 16+00 79.6' RT. CONSTRUCT 56' FENCING PER 5. STA. 12+26.5, 98.6' RT. TO STA. 12+68.7, 104.5' CONSTRUCT 34' FENCING Southern Sandoval PER SSCAFCA STD. DWG. M100 ON SHEET 14 AND MAINTENANCE ACCESS GATE PER SSCAFCA STD. DWG. M101 ON SHEET 14 CENTER IN THE County Arroyo Flood Control 6. STA. 12+38.7, 56.9' LT. TO STA. 13+66, 41.1' LT. CONSTRUCT 152'± Authority FENCING PER SSCAFCA STD. DWG. M100 ON SHEET 14. TIE TO EXISTING 1041 Commercial Dr. S.E. Rio Rancho, New Mexico 87124 7. GRAVEL MULCH AFTER SEEDING, 2"-4" CRUSHED GRAVEL, 4" THICK, NO 505-892-RAIN (7246) GEOTEXTILE. ALL AREAS BETWEEN MAINTENANCE ACCESS ROAD AND 505-892-7241 (Fax) "ARMORMAX 75" (OR APPROVED EQUAL) CHANNEL LINING. www.sscafca.com 13+00 5460 5450 5440 - 5430 IVORY CHANNEL ROVEMENTS 5420 <u>-40 -30 -20 -10 0 10 20 30 40 50 60</u> 5420 14+00 PROPOSED 5460 GRADE 5450 LOWER 5440 EXISTING 🖓 GROUND 5430 5420 5410 -30 -20 -10 0 10 20 30 40 50 60 70 80 , → PROPOSED GRADE 5450 5440 - 5430 È⊶ EXISTING GROUND - 5420 15' 5410 <u>-30 -20 -10 0 10 20 30 40 50 60 70</u> 5410 16+00 DESIGNED BY: JN - PROPOSED DRAWN BY: KLF .... GRADE - 5450 CHECKED BY: AES : - 5440 + 5430 - EXISTING 10

GROUND

+ 5420

**-** 5410

15'

FILE 16+00 0 O

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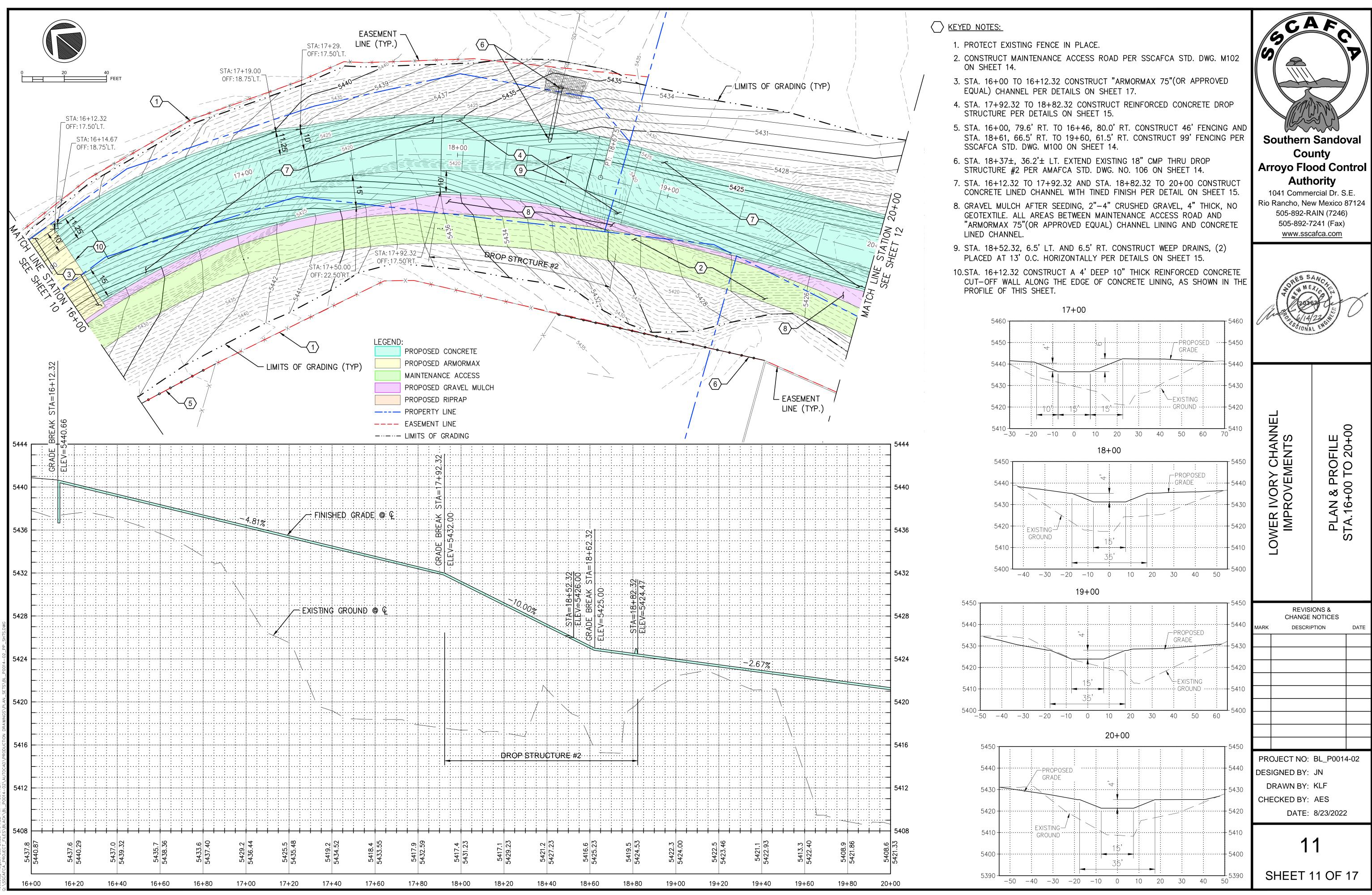
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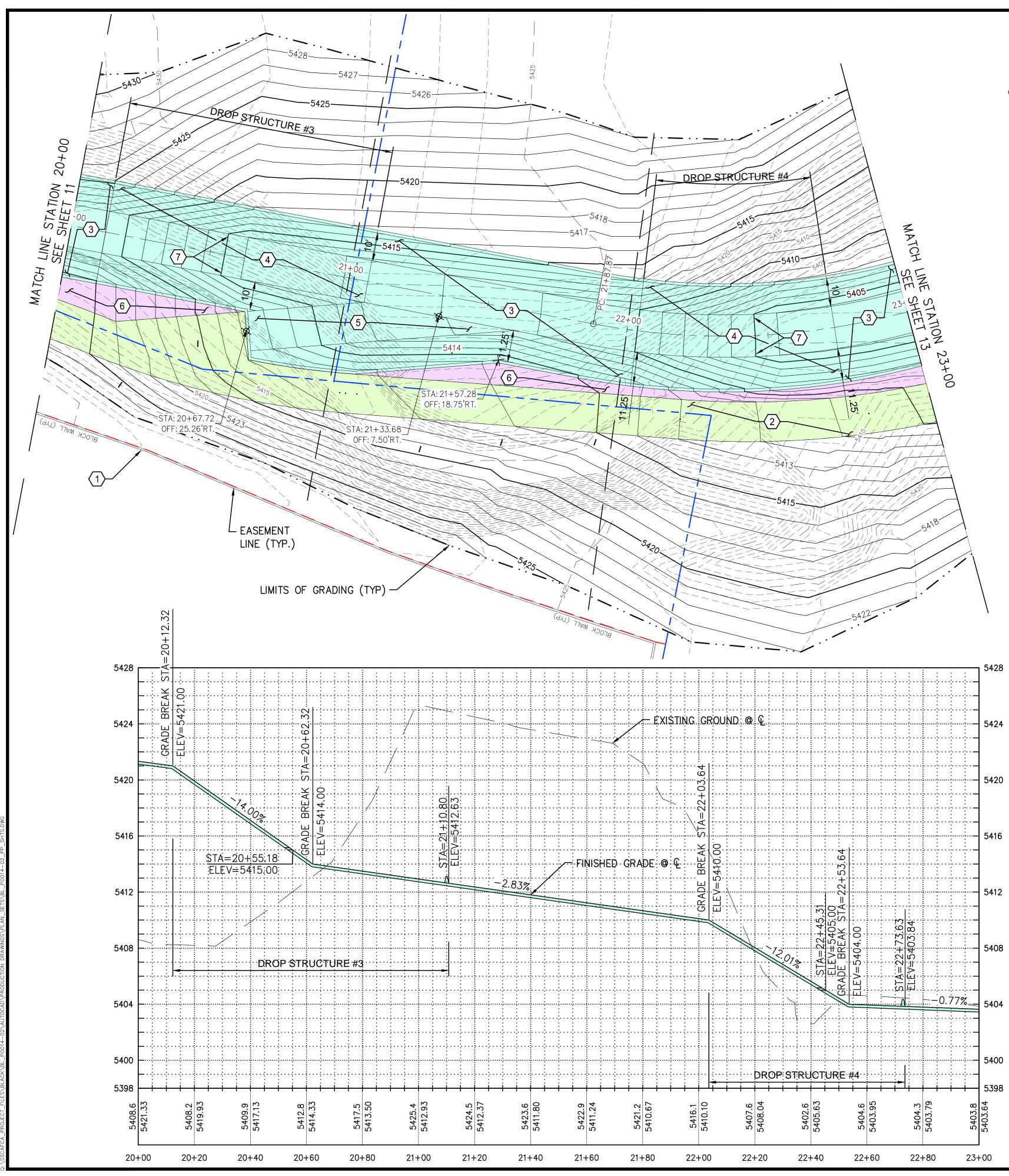
	REVISIONS & CHANGE NOTIO	
RK	DESCRIPTION	DA

PROJECT NO: BL\_P0014-02

DATE: 8/16/2022

SHEET 10 OF 17



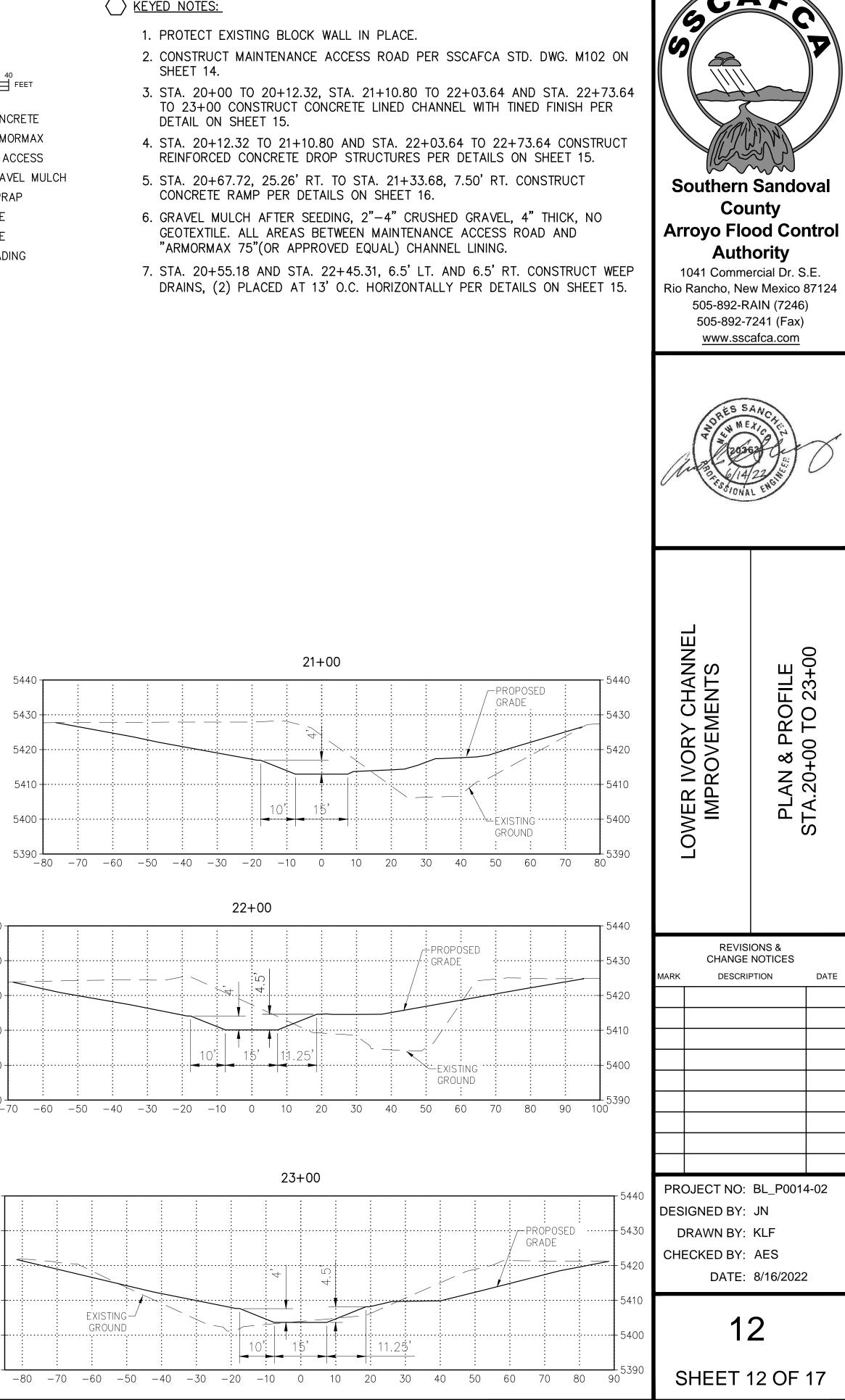




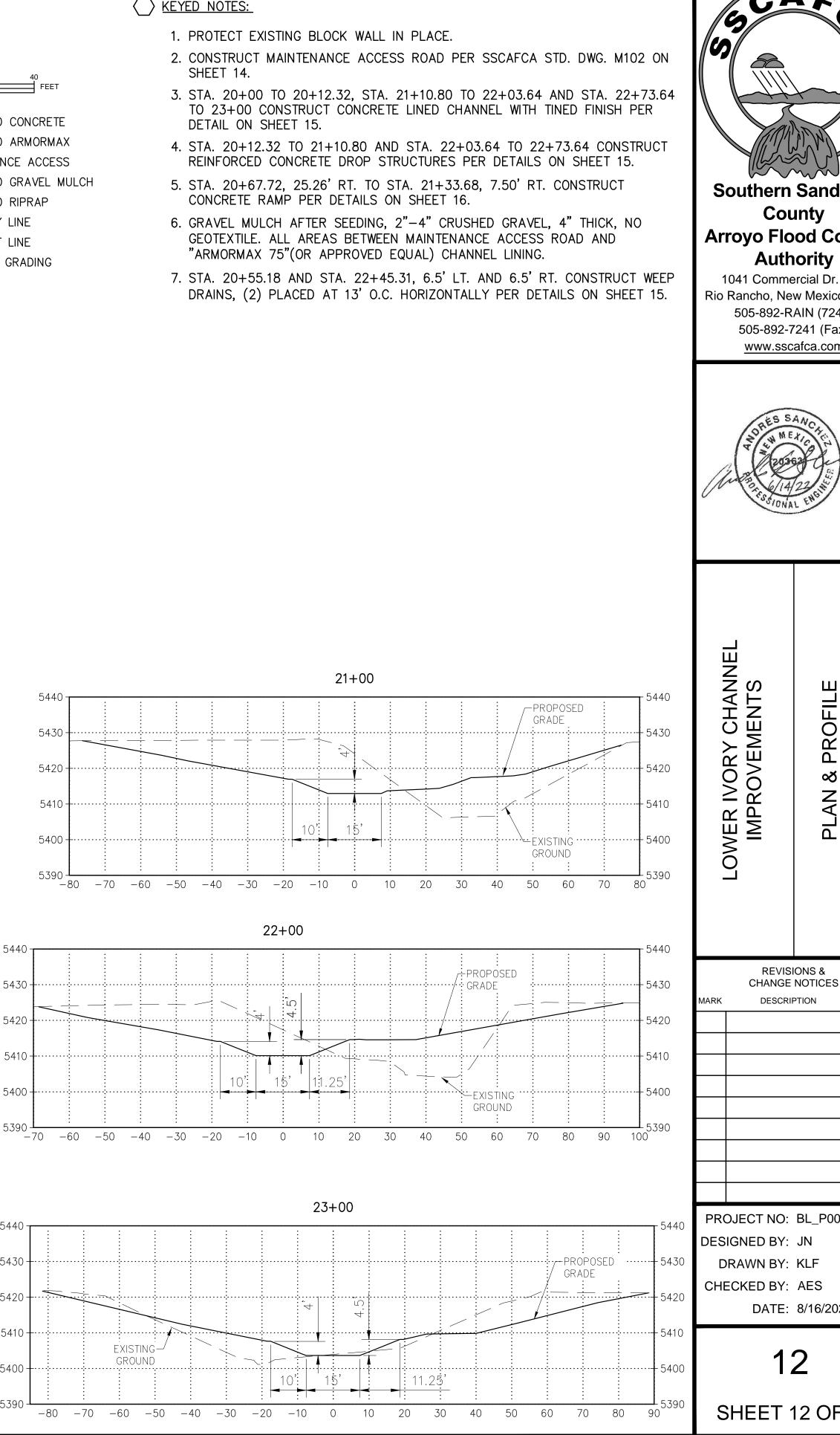
### I FEET LEGEND: PROPOSED CONCRETE PROPOSED ARMORMAX MAINTENANCE ACCESS PROPOSED GRAVEL MULCH PROPOSED RIPRAP ---- PROPERTY LINE ---- EASEMENT LINE ----- LIMITS OF GRADING

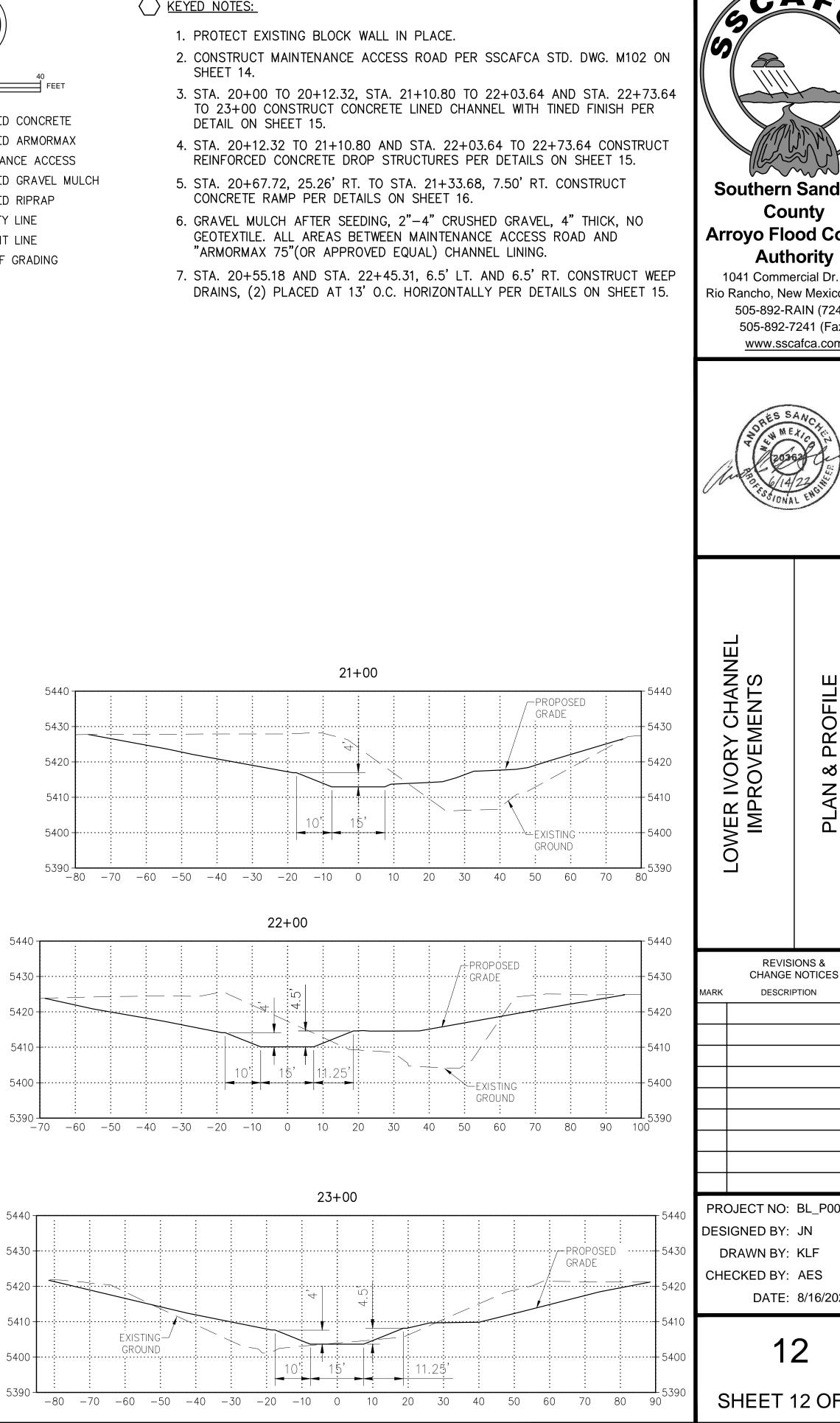
## KEYED NOTES:

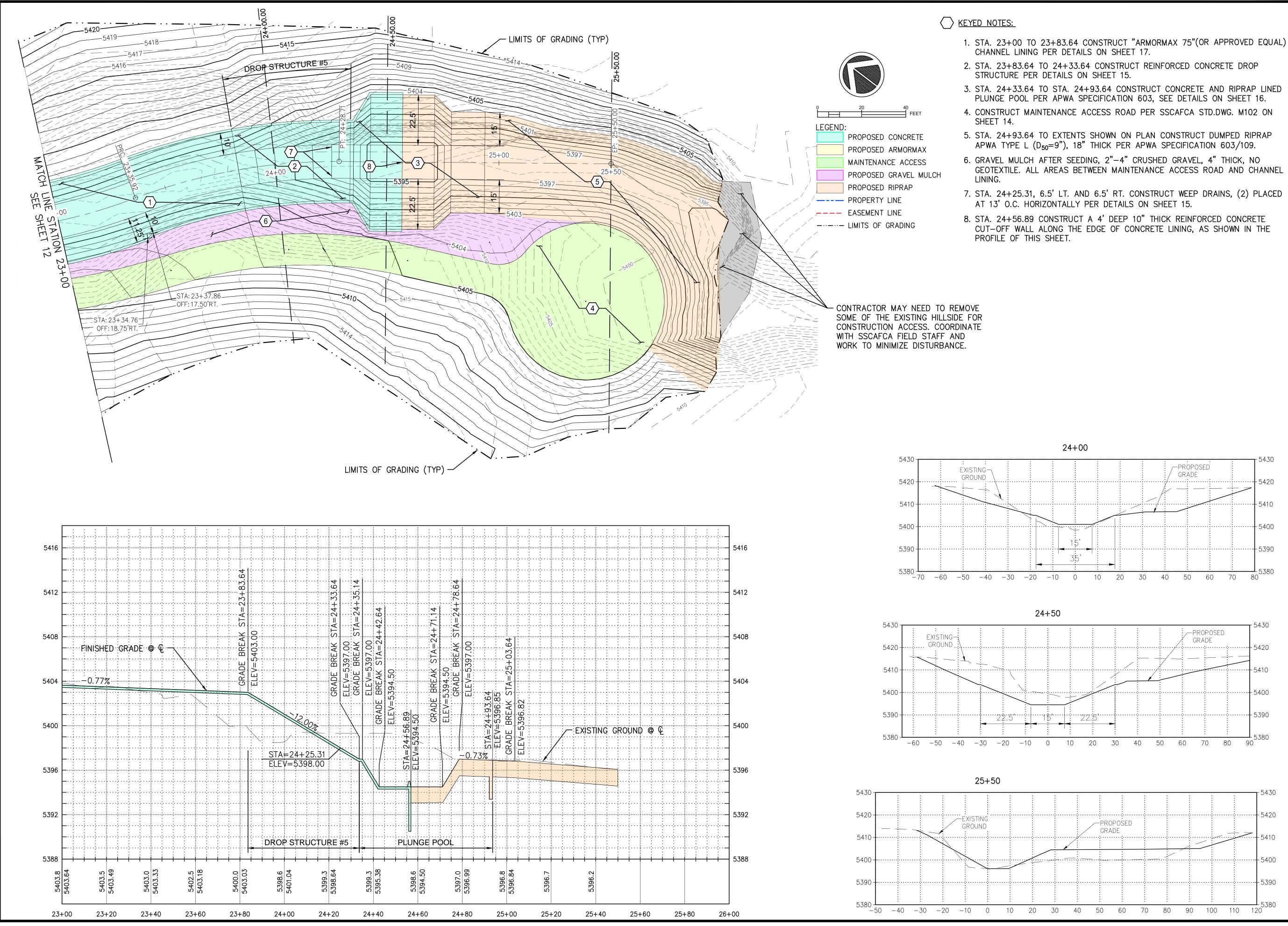
- SHEET 14.

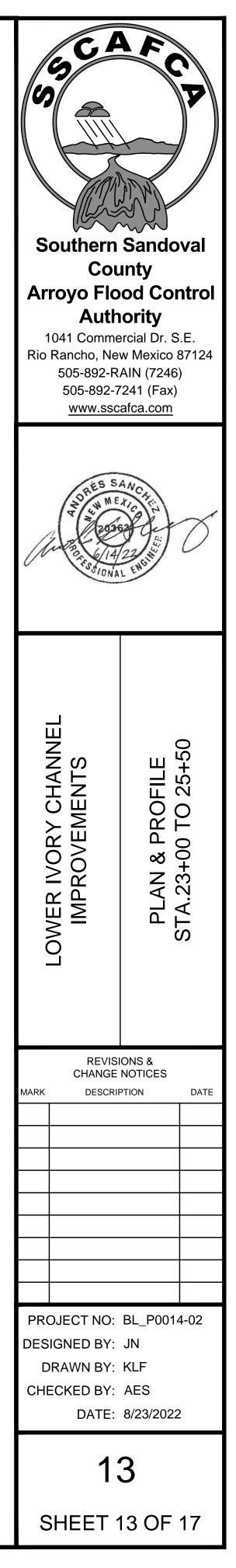


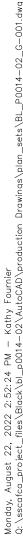
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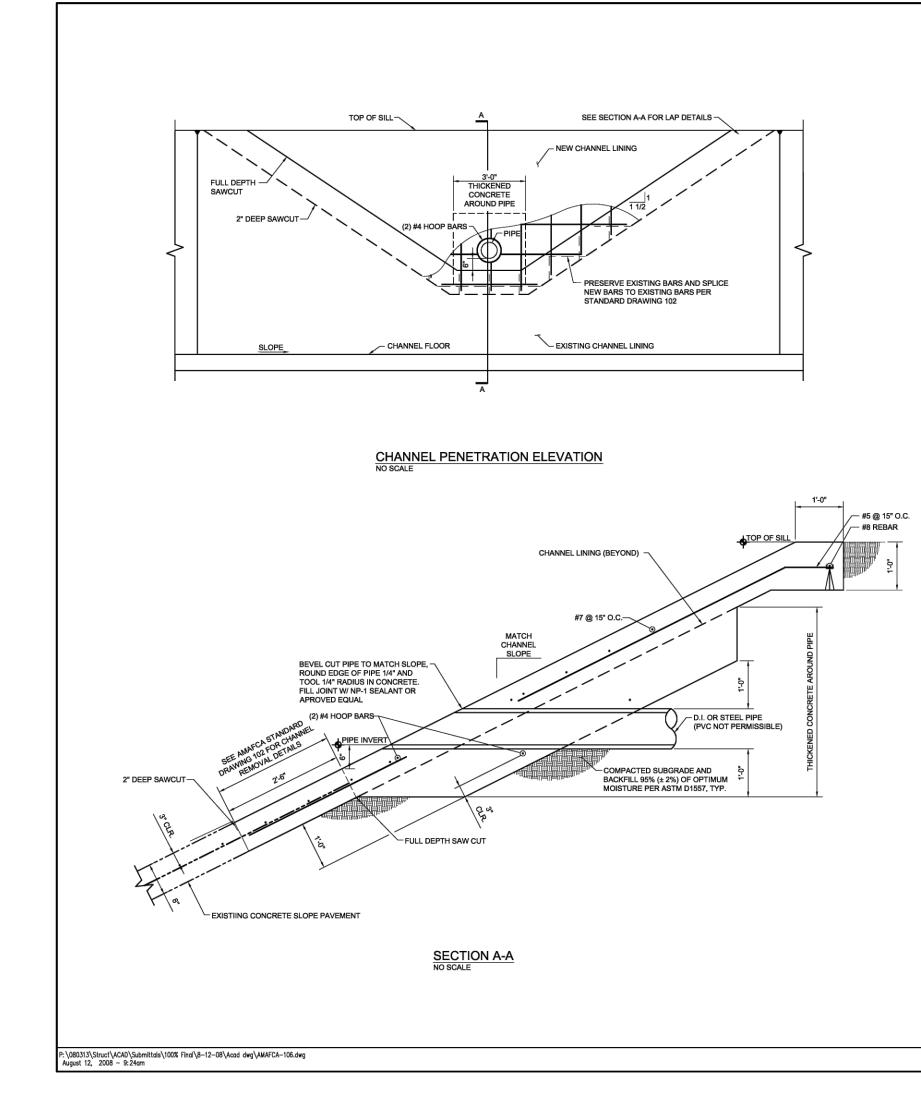


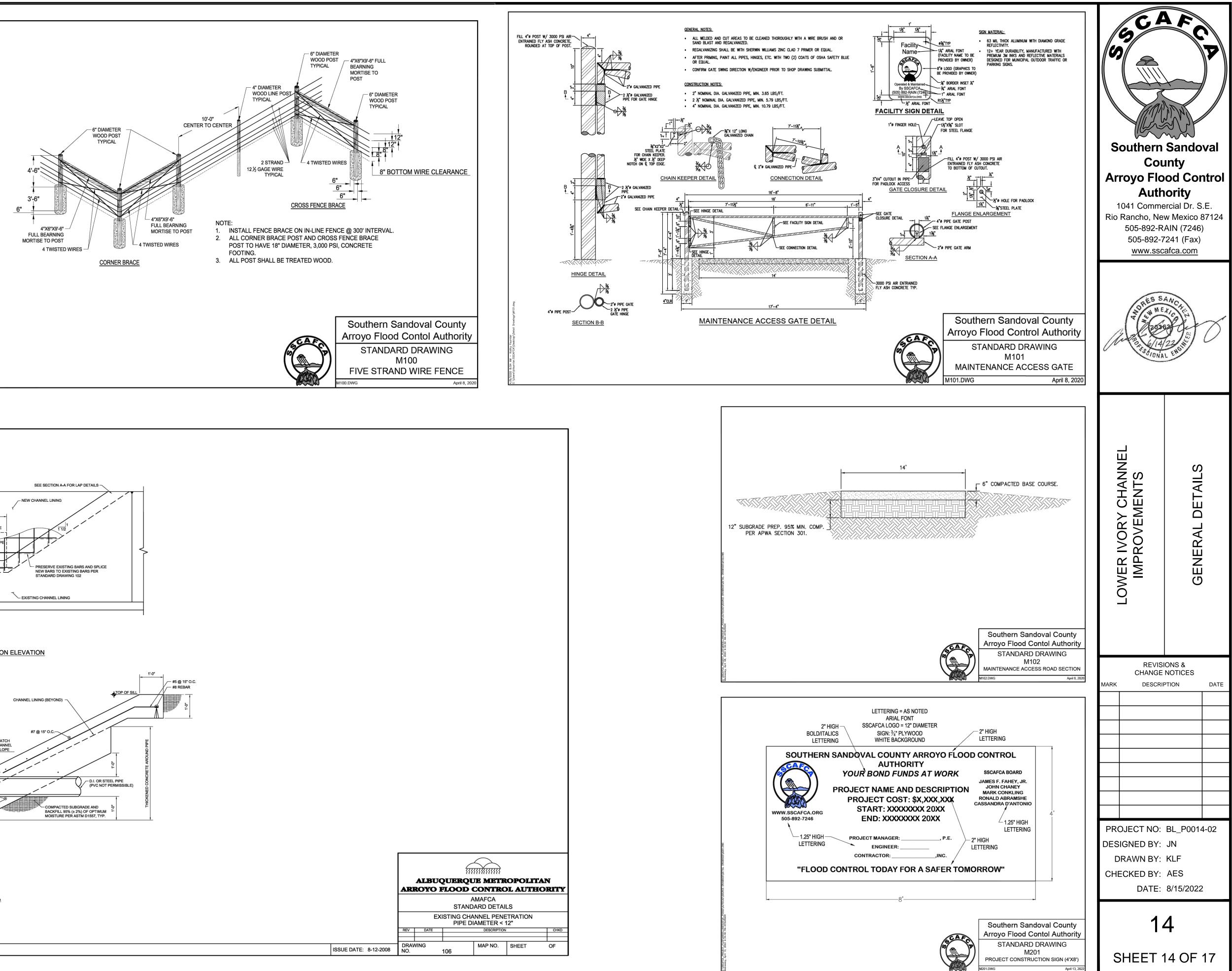


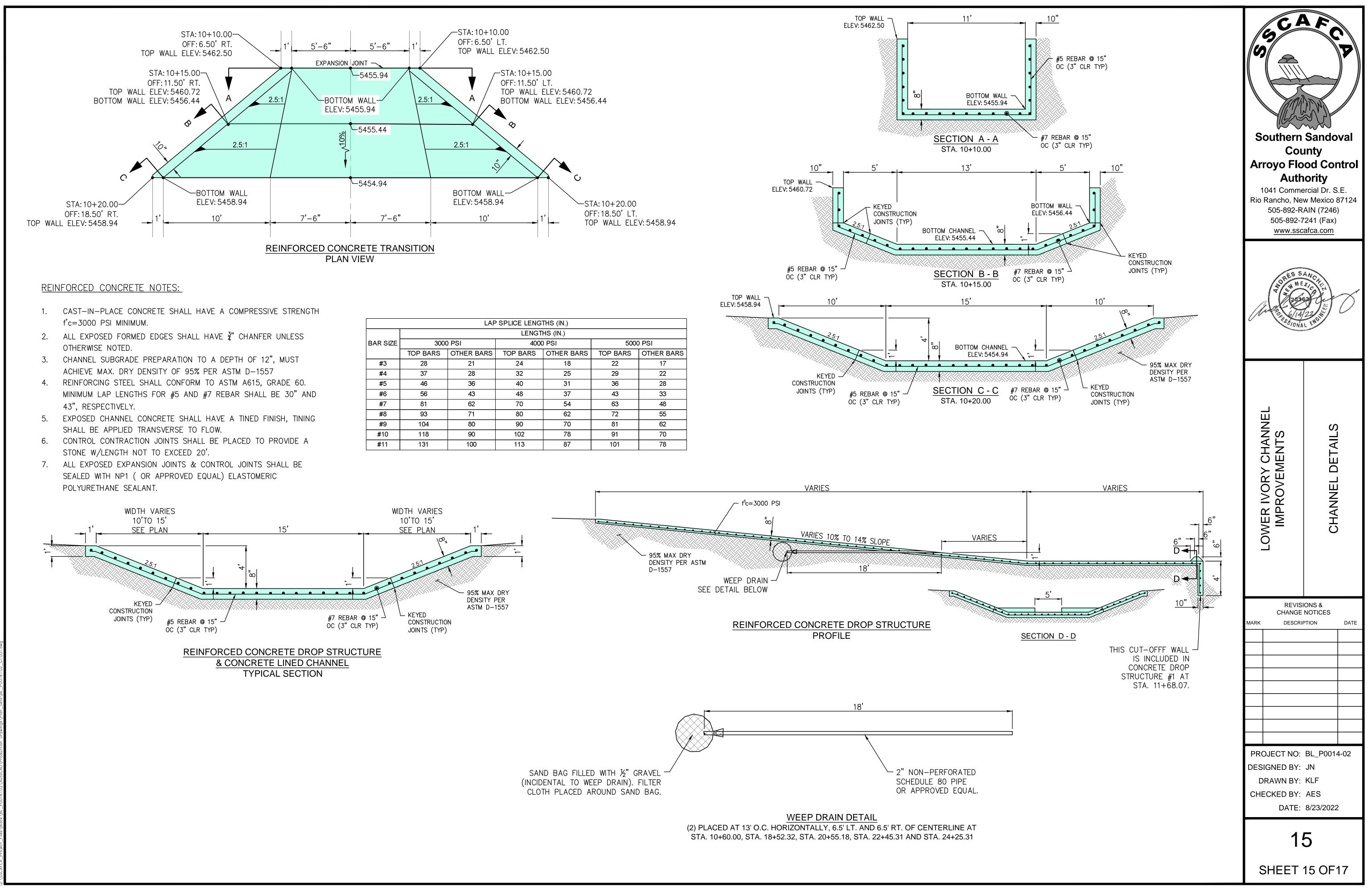


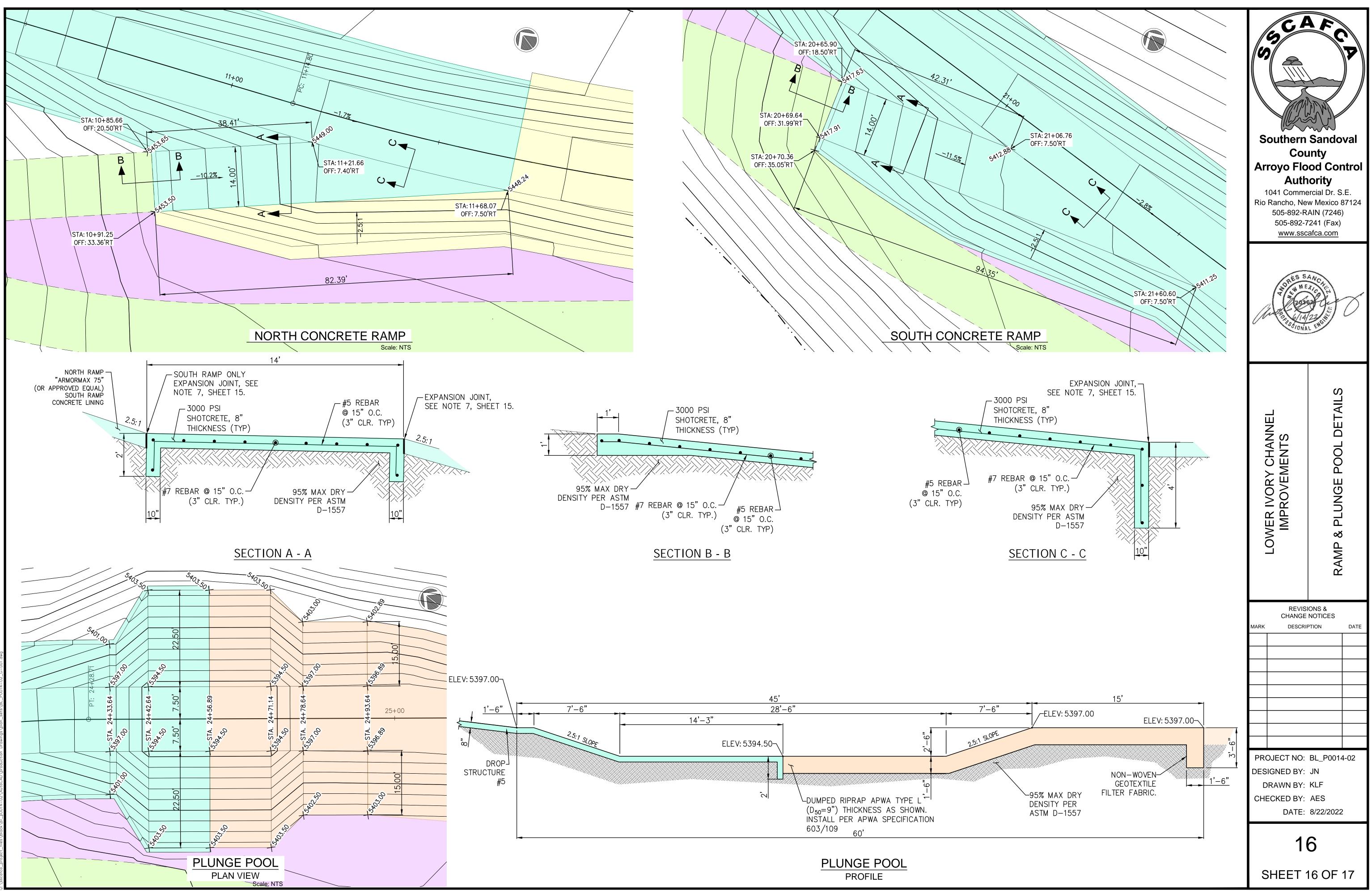




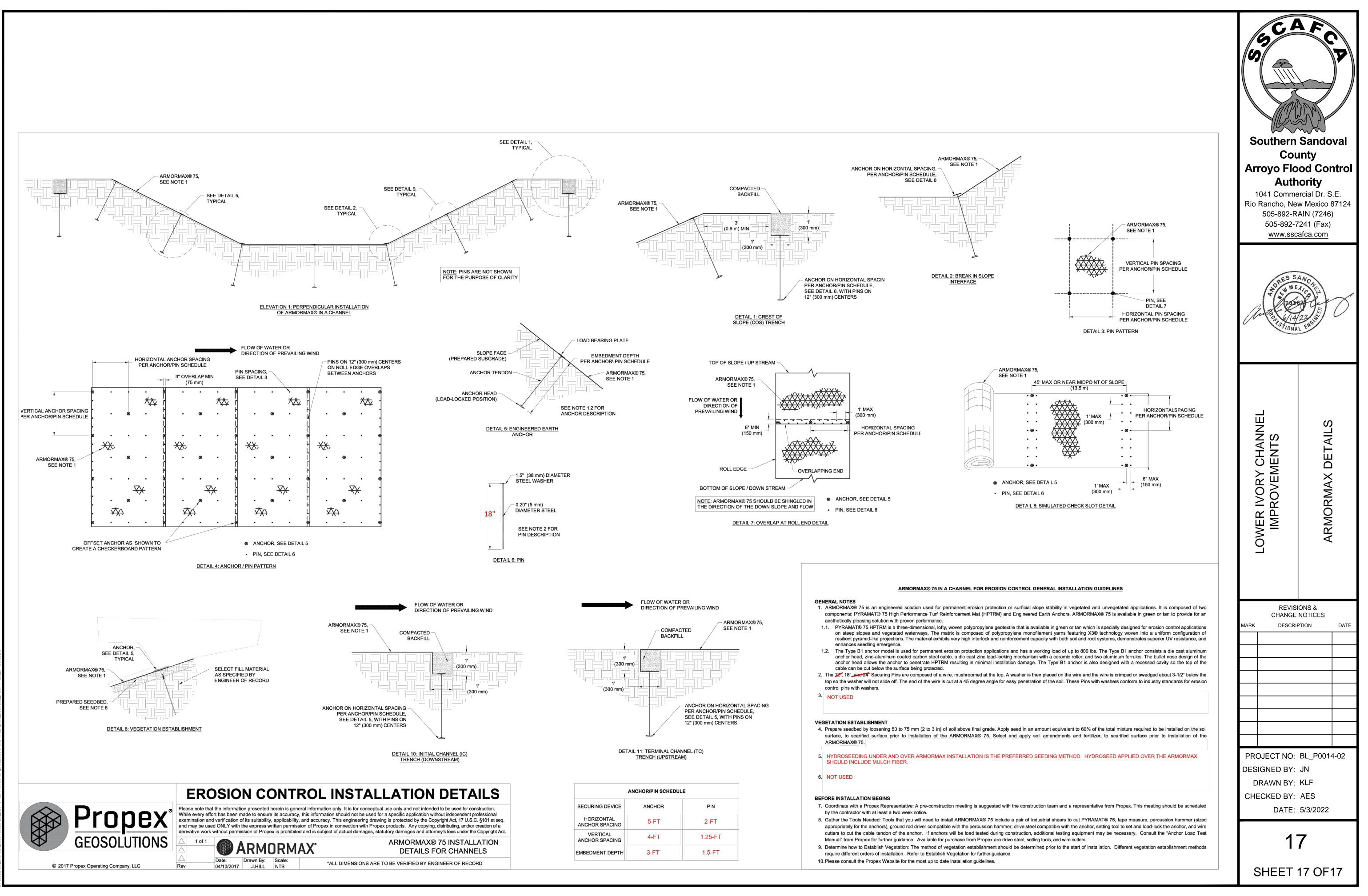








y, August 22, 2022 3:37:55 PM — Kathy Fournier cafea project files/Black/bl p0014-02/AutoCAD/production Drawinas/plan sets/BL



iday, June 2, 2022 2:45:35 PM – Kathy Fournier scorfen project files/Black/bl. p0014–02/AutoCAD/production Drawings/plan sets/BL P0014–02 G–00

	•					•			
Point #	Elevation	Northing	Easting	//	Point #	Elevation	Northing	Easting	
1	5297.249	1538354.4751	1506606.6767	/	31	5305.153	1539008.4006	1506575.5953	
2	5297.739	1538402.7539	1506593.6705		32	5306.486	1539058.3070	1506578.6440	
3	5298.342	1538451.1497	1506581.1638		33	5307.000	1539078.6562	1506580.1318	
4	5301.824	1538500.1800	1506571.3642	1	34	5308.000	1539120.5861	1506577.9537	
5	5303.868	1538548.6874	1506559.3136		35	5290.000	1538315.0011	1506679.4310	
6	5305.381	1538598.2174	1506552.5025	1	36	5291.009	1538334.3881	1506708.6090	
7	5306.980	1538647.8442	1506546.4863	1	37	5292.000	1538381.9910	1506740.3826	
8	5308.245	1538697.4706	1506540.7721		38	5293.000	1538448.1095	1506753,1613	
9	5309.404	1538747,1332	1506535.7421		39	5294.000	1538515.7523	1506722.8196	19th
10	5310,426	1538797.0833	1506533.5097		40	5294.969	1538581.0915	1506707.1147	
11	5311.478	1538847.0494	1506533.8424		41	5296.000	1538640.5134	1506718.0759	+ <u>_</u>
12	5312.906	1538897.0234	1506535.4534		42	5299.000	1538724.1555	1506765.5157	1,/
13	5313.928	1538946.9975	1506537.0645		43	5300.000	1538781.7901	1506773,0793	
14	5314.666	1538996.7371	1506541.9530		44	5303.000	1538902.4994	15066,81,1122	
15	5313.766	1539045.7993	1506551.4707	•					
16	5310.000	1539125.3000	1506572.0348	· \/			BUILD RA		- ~ _
17	5287.016	1538325.7255	1506646.9633	-		5295	ACCESS	19th St SE	
18	5288.068	1538364.3231	1506636.4669	/				1 \	
19	5289.390	1538412.8299	1506624.3433						
20	5290.703	1538461.6015	1506613.3333						<u> </u>
21	5292.036	1538510.6124	1506603.4425	7					3
22	5293.342	1538559.8368	1506594.6763					2	
23	5294.640	1538609.2490	1506587.0391				1 5295		20
24	5295.952	1538658.8231	1506580.5350						X
25	5297.267	1538708.5330	1506575.1674		->->		18 5290	+X	
26	5298,581	1538758.4884	1506573.0911	~	-	17	52	10 - C	í í \/
27	5299.902	1538808.4734	1506571.8925				54		
28	5301.213	1538858.4716	1506571.5436	- /					
29	5302.526	1538908.4685	1506572.0446	1		35	3		
30	5303.834	1538957.2173	1506573.3518	1	1		X // N		
37									
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Point Table

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