

**SOUTHERN SANDOVAL COUNTY
ARROYO FLOOD CONTROL
AUTHORITY**

RIO MORA ROAD STORM DRAIN

SSCAFCA Project No. MO_P0083

NMDOT Control Number C3193396

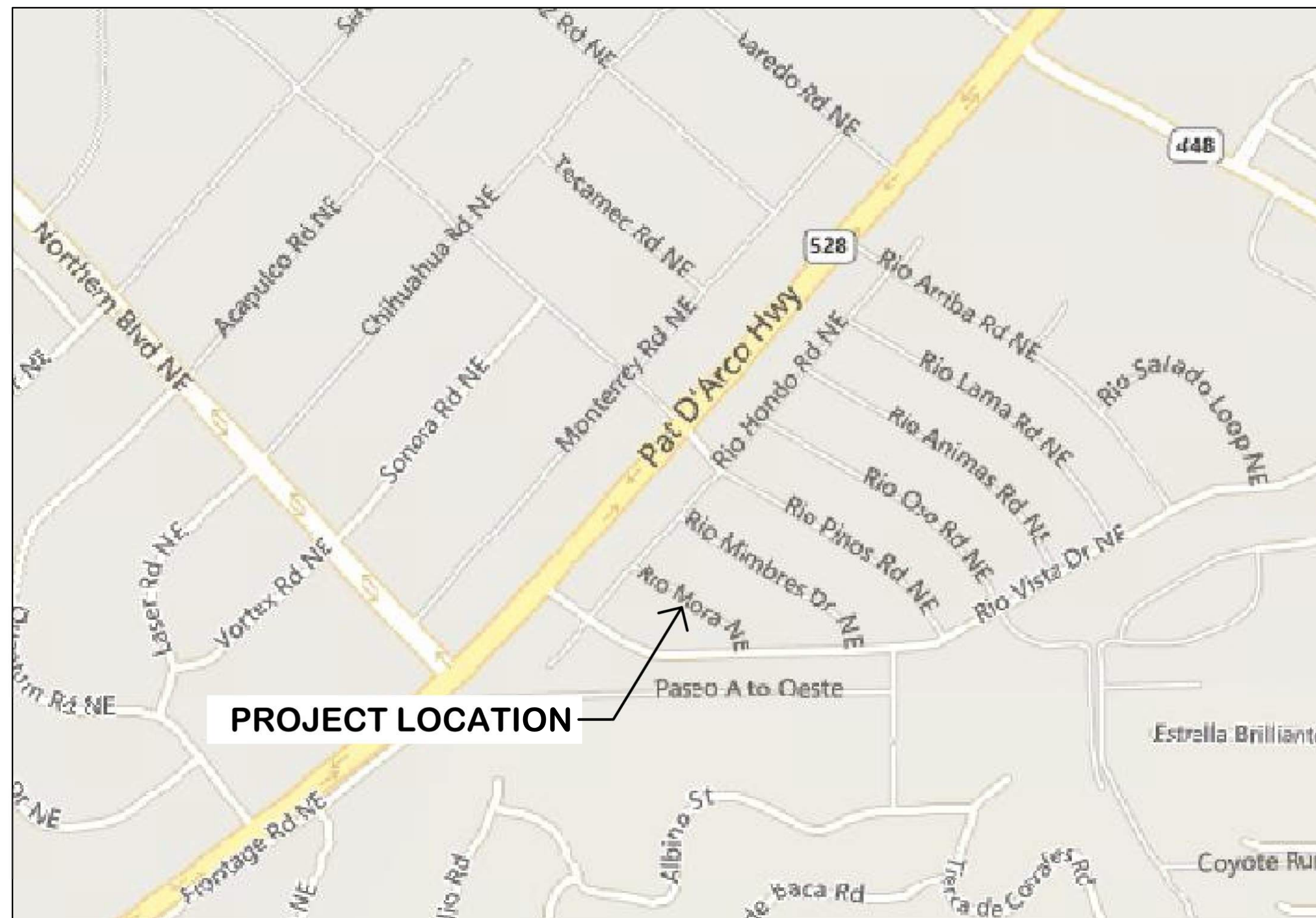
MONTOYAS WATERSHED

FACILITY DESIGN DATA		
		UNIT
DESIGN STORM	100 / 24	YR / HR
PEAK INFLOW AT BEGINNING OF RIO MORA ROAD	62	CFS



**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



VICINITY MAP

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RIO MORA ROAD STORM DRAIN

COVER SHEET & SHEET INDEX

REVISIONS & CHANGE NOTICES

MARK	DESCRIPTION	DATE

PROJECT NO: MO_P0083
DESIGNED BY: JB
DRAWN BY: KLF
CHECKED BY: AES
DATE: 8/4/2020

APPROVALS

SSCAFCA: Charles Thomas Digitally signed by Charles Thomas
DN: cn=Charles Thomas, o=SSCAFCA,
ou=Executive Engineer,
email=cthomas@sscafca.com, c=US
Date: 2020.08.25 10:27:15 -08'00' EXECUTIVE ENGINEER DATE: _____

CITY OF RIO RANCHO: David Serrano Digitally signed by David Serrano
DN: C=US, E=dserrano@rrmm.gov,
CN=David Serrano
Date: 2020.08.25 09:03:27 -06'00' DEVELOPMENT SERVICES DEPARTMENT DATE: 08/25/2020

Tuesday, August 25, 2020 8:24:37 AM
C:\SSCAFCA\Projects\Files\Montoyas\MO_P0083\AutoCAD\Production Drawings\Plan_Site\MO_P0083_C0-1-2.dwg

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.
- 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.
- 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 CITY OF RIO RANCHO DEVELOPMENT SERVICES DEPARTMENT ENGINEERING SECTION 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.
- 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/ENGINEER (SSCAFCA), THE CITY OF RIO RANCHO DEPARTMENT OF PUBLIC SAFETY (505-891-5900) AND THE CITY OF RIO RANCHO DEVELOPMENT SERVICES DEPARTMENT (505-891-5005)
- 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.
- 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.
- 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.
- 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/ENGINEER (SSCAFCA) AT 505-892-7246 IMMEDIATELY.
- IT IS MANDATORY THAT A PRE-CONSTRUCTION MEETING BE HELD PRIOR TO COMMENCING CONSTRUCTION. THE CONTRACTOR IS RESPONSIBLE FOR CONTACTING THE OWNER/ENGINEER (SSCAFCA) AT 505-892-7246 TO DETERMINE THE TIME AND LOCATION OF THE PRE-CONSTRUCTION MEETING.
- AT THE PRE-CONSTRUCTION MEETING, THE CONTRACTOR SHALL SUBMIT A DETAILED CONSTRUCTION SCHEDULE TO THE OWNER / ENGINEER (SSCAFCA).
- ANY WORK PERFORMED WITHOUT THE APPROVAL OF THE OWNER / ENGINEER (SSCAFCA) AND/OR ALL WORK AND MATERIALS NOT IN CONFORMANCE WITH THE SPECIFICATIONS IS SUBJECT TO REMOVAL AND REPLACEMENT AT THE CONTRACTOR'S EXPENSE.
- 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.
- 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.
- CONTRACTOR WILL NOTIFY THE OWNER / ENGINEER (SSCAFCA) AT 505-892-7246 A MINIMUM OF TWO (2) WORKING DAYS PRIOR TO COMMENCEMENT OF WORK.
- 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.
- 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.
- CONTRACTOR SHALL PARK EQUIPMENT AND VEHICLES SO AS NOT TO INTERFERE WITH NORMAL ACTIVITIES OF RESIDENTS OR OTHER CONTRACTORS ON SITE.

GENERAL NOTES (CONTINUED)

- CONTRACTOR SHALL PROVIDE CONSTRUCTION STAKING UTILIZING APPROVED CONSTRUCTION PLANS, THE APPROPRIATE RIGHT-OF-WAY MAPS, RECORDED PLATS, AND CITY OF RIO RANCHO STANDARD DETAILS. EACH REVISION TO THE PLANS SHALL BE RECORDED IN THE PLAN REVISION BLOCK. PLANS SHALL INCLUDE LOCATION MAP WITH LEGAL DESCRIPTION AND LOCATION GRID.
- 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 / ENGINEER (SSCAFCA) PRIOR TO FINAL PAYMENT.
- THE CONTRACTOR SHALL ENSURE THAT ALL CONSTRUCTION ACTIVITIES, PERMITTING, AND SUBMITTALS ARE IN ACCORDANCE WITH THE SSCAFCA / CITY OF RIO RANCHO DEVELOPMENT PROCESS MANUAL (DPM) AND LOCAL ORDINANCES.
- NO WORK SHALL BE PERFORMED IN A FEMTA FLOODPLAIN WITHOUT WRITTEN AUTHORIZATION FROM THE LOCAL FLOODPLAIN MANAGER.
- CONTRACTOR IS RESPONSIBLE FOR PROTECTION OF HIS WORK FROM STORMWATER FLOWS AS OUTLINED IN THE SUPPLEMENTAL TECHNICAL SPECIFICATIONS PROVIDED IN THE CONTRACT DOCUMENTS.
- UNLESS OTHERWISE SPECIFIED, ALL CONCRETE SHALL BE A MINIMUM OF 3,500 PSI.
- 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

- 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.
- 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 SWPPP BID AMOUNT.
- 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.
- 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.
- 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.
- 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.
- 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.
- ANY AREAS DISTURBED BY CONSTRUCTION AND NOT COVERED BY AN IMPERVIOUS SURFACE SHALL BE REVEGETATED WITH NATIVE GRASS SEEDING. WHEN CONSTRUCTION ACTIVITIES CEASE AND EARTH DISTURBING ACTIVITIES WILL NOT RESUME WITHIN 14 DAYS, STABILIZATION MEASURES MUST BE INITIATED.
- 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 HULL 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.
- 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 BE A THREAT TO THE ENVIRONMENT. THE CONTRACTOR SHALL REPORT THE DISCOVERY OF PAST OR PRESENT SPILLS TO THE NEW MEXICO ENVIRONMENT DEPARTMENT EMERGENCY RESPONSE TEAM AT 505-827-9329.
- THE CONTRACTOR SHALL COMPLY WITH ALL APPLICABLE REGULATIONS CONCERNING SURFACE AND UNDERGROUND WATER. CONTACT WITH SURFACE WATER BY CONSTRUCTION EQUIPMENT AND PERSONNEL SHALL BE MINIMIZED. EQUIPMENT MAINTENANCE AND REFUELING OPERATIONS SHALL BE PERFORMED IN AN ENVIRONMENTALLY SAFE MANNER IN COMPLIANCE WITH GOVERNMENT REGULATIONS.
- THE CONTRACTOR SHALL COMPLY WITH ALL APPLICABLE REGULATIONS CONCERNING CONSTRUCTION NOISE AND HOURS OF OPERATION.
- 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

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

MATERIALS	PERCENT (%) COMPACTION
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

ABBREVIATIONS

AP	ANALYSIS POINT
@	BEGIN CURVE
BC	BEGIN CURB RETURN
BCR	BOOK
BK	BUILDING
BLDG	BENCH MARK
BM	BEGINNING OF ALIGNMENT
BOA	BEGINNING OF PROJECT
BOP	BEGIN VERTICAL CURVE
BVC	BASE OF WALL
BW	CABLE TV LINE
CATV	CATCH BASIN
CB	CURB FACE
CF	CUBIC FEET PER SECOND
CFS	CURB AND GUTTER
CG	CHAIN LINK FENCE
CLF	CENTERLINE
C	CORRUGATED METAL PIPE
CMP	CLEAN OUT
CO	CONCRETE
CONC	CITY OF RIO RANCHO
CORR	CUBIC YARDS
CY	DRAINAGE UTILITY EASEMENT
DUE	DROP INLET
DI	DIAMETER
DIA	DELTA
Δ	EACH
EA	END CURVE
EC	END CURB RETURN
ECR	ELEVATION
ELEV	END OF ALIGNMENT
EOA	END OF PROJECT
EOP	EDGE OF PAVEMENT
EP	EASEMENT
ESMT	ESTIMATE
EST	END VERTICAL CURVE
EVC	EACH WAY
EW	EXISTING
EXIST	FINISH FLOOR
FF	FINISH GRADE
FG	FIRE HYDRANT
FH	FLOW LINE
F	FACE OF CURB
FOC	FINISHED PAD
FP	FEET PER SECOND
FPS	GAS
G	GAS METER
GM	GATE VALVE
GV	HORIZONTAL
HORIZ	INTERSECTION
INT	INVERT
INV	INVERT ELEVATION
INV EL	LINEAR FEET
LF	LIGHT POLE
LP	LEFT
LT	MANHOLE
MH	MID-POINT
MID	NATURAL GROUND
NG	ON CENTER
OC	OVER HEAD ELECTRIC
OHE	PULL BOX
PB	POINT OF CURVATURE
PC	POINT OF COMPOUND CURVATURE
PCC	PAGE
PG	PROFILE GRADE LINE
PGL	POINT OF INTERSECTION
PI	PROPERTY LINE
P	PROPERTY LINE
PRC	POINT OF REVERSE CURVATURE
PT	POINT OF TANGENCY
PUE	PUBLIC UTILITY EASEMENT
PVC	POLYVINYL CHLORIDE PIPE
PVMT	PAVEMENT
P	100 YEAR PEAK DISCHARGE
Q	QUANTITY
QTY	RADIUS
RAD	REINFORCED CONCRETE PIPE
RCP	ROOF DRAIN
RD	REFERENCE
REF	RADIUS POINT
RP	RIGHT
RT	RIGHT-OF-WAY
R/W,ROW	SLOPE
S	SANITARY SEWER LINE
SAS, SS	STORM DRAIN
SD	SQUARE FEET
SF	STATION
STA	STANDARD
STD	SIDEWALK
SW	SQUARE YARDS
SY	TANGENT
T	TOP OF ASPHALT
TA	TOP OF ASPHALT CURB
TAC	TOP BACK OF CURB
TBC	TOP OF CONCRETE
TC	TELEPHONE LINE, RISER OR BOX
TEL	TOP OF PIPE
TP	TRANSVERSE
TRANS	TOP OF WALL
TW	TYPICAL
TYP	UNDERGROUND ELECTRICAL LINE
UE	UNDERGROUND TELEPHONE LINE
UT	VELOCITY
V	VERTICAL CURVE
VC	VERTICAL
VERT	VERTICAL POINT OF INTERSECTION
VPI	WATER LINE
W	WATER METER
WM	WATER QUALITY
WQ	WATER SURFACE ELEVATION
WSEL	WATER VALVE
WV	



Southern Sandoval County Arroyo Flood Control Authority
 1041 Commercial Dr. S.E.
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RIO MORA ROAD STORM DRAIN

GENERAL NOTES & ABBREVIATIONS

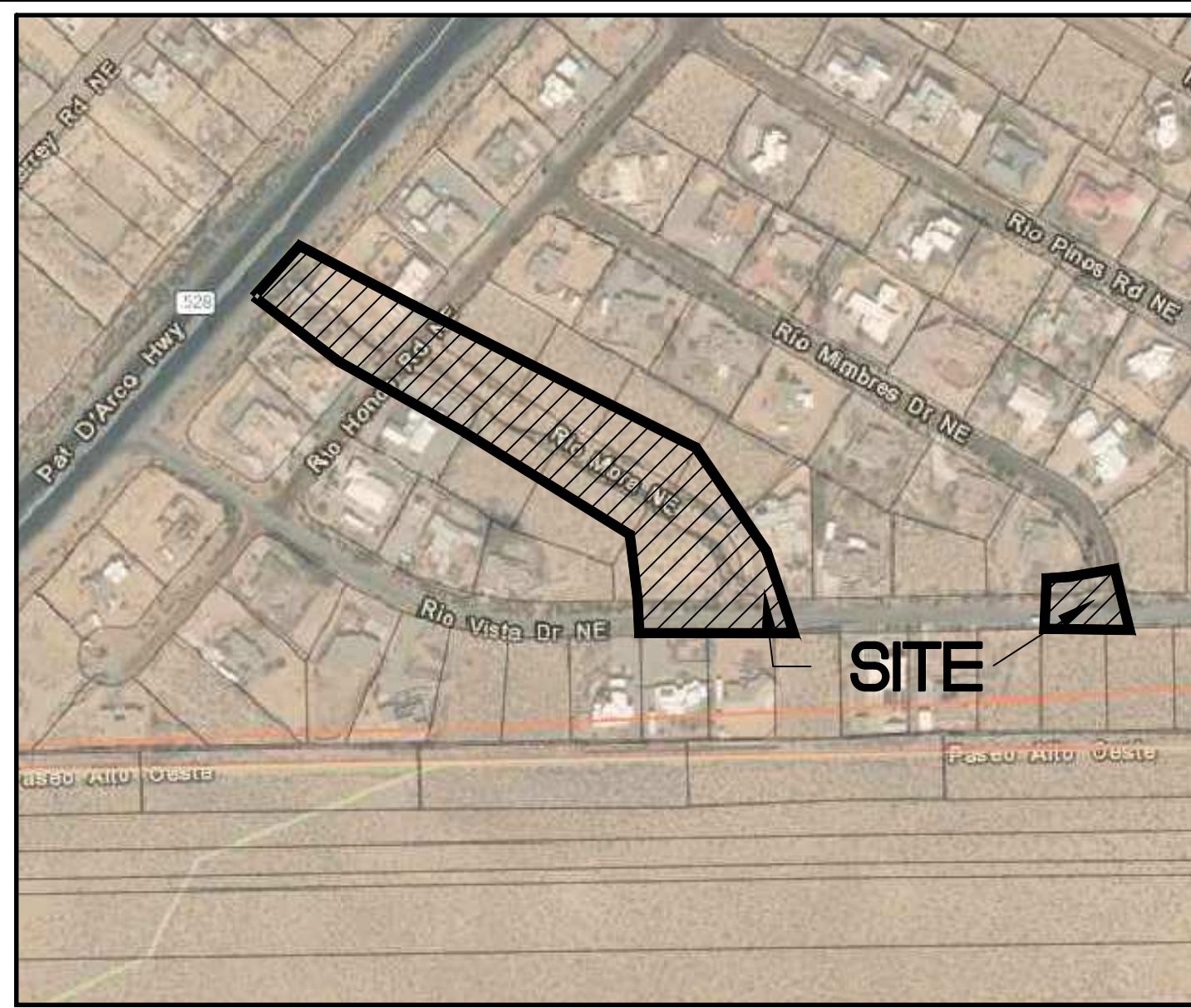
REVISIONS & CHANGE NOTICES		
MARK	DESCRIPTION	DATE

PROJECT NO: MO_P0083
 DESIGNED BY: JB
 DRAWN BY: KLF
 CHECKED BY: AES
 DATE: 8/24/2020

2

SHEET 2 OF 8

Tuesday, August 25, 2020 8:25:33 AM - Kathy Turner
 C:\SSCAFCA\Projects\Files\Montevideo\MO_P0083\AutoCAD\Production Drawings\Plan\MO_P0083_G-1-2.dwg



Vicinity Map

Legend

N 90°00'00" E (N 90°00'00" E)	MEASURED BEARINGS AND DISTANCES RECORD BEARINGS AND DISTANCES (7/18/1969, RRE Bk. 1, Pg. 95)
●	FOUND MONUMENT AS INDICATED
○	SET BATHEY MARKER "LS 14271" UNLESS OTHERWISE NOTED
▭	COVERED AREA
▭	CONCRETE
—/—/—	WOOD FENCE
—x—x—	WIRE FENCE
▬▬▬▬	BLOCK WALL
●	BOLLARD
—OHU—	OVERHEAD UTILITY LINE
●	UTILITY POLE
☆	LIGHT POLE
⊙	GAS METER
M	MAILBOX
—OR—	SIGN
▭	RIP RAP
▬▬▬▬	DRAINAGE CULVERT

Indexing Information

Sections 15 and 16, Township 12 North, Range 3 East, N.M.P.M. as Projected into the Town of Alameda Grant Subdivision: Rio Rancho Estates, Unit 17

Legal Description

RIO MORA ROAD, A RIGHT-OF-WAY WITHIN RIO RANCHO ESTATES, UNIT SEVENTEEN (17), SANDOVAL COUNTY, NEW MEXICO, AS THE SAME IS SHOWN AND DESIGNATED ON THE MAP OF SAID SUBDIVISION, FILED IN THE OFFICE OF THE COUNTY CLERK OF SANDOVAL COUNTY, NEW MEXICO, ON JULY 8, 1969, IN RIO RANCHO ESTATES PLAT BOOK 1, PAGE 95.

Boundary Survey

and
Topographic Map

for
Right-of-Way of Rio Mora
Road with Portions of Rio
Hondo Road and Rio Vista
Drive within
Rio Rancho Estates, Unit 17
City of Rio Rancho
Sandoval County, New Mexico
April 2020

Notes

- FIELD SURVEY PERFORMED IN APRIL 2020.
- ALL DISTANCES ARE GROUND DISTANCES: U.S. SURVEY FOOT.
- THE BASIS OF BEARINGS REFERENCES MODIFIED NEW MEXICO STATE PLANE COORDINATES (NAD 83-CENTRAL ZONE).
- THE EASEMENTS SHOWN HEREON ARE ONLY THE EASEMENTS AS SHOWN ON THE PLAT OF RECORD. A TITLE COMMITMENT WILL BE REQUIRED TO SHOW OTHER EASEMENTS.
- WITH REGARD TO UNDERGROUND UTILITY LOCATIONS, SOURCE INFORMATION FROM PLANS AND MARKINGS WERE COMBINED WITH OBSERVED EVIDENCE OF UTILITIES PURSUANT TO SECTION 5.E.IV. TO DEVELOP A VIEW OF THE UNDERGROUND UTILITIES. HOWEVER, LACKING EXCAVATION, THE EXACT LOCATION OF UNDERGROUND FEATURES CANNOT BE ACCURATELY, COMPLETELY AND RELIABLY DEPICTED. IN ADDITION, IN SOME JURISDICTIONS, 811 OR OTHER SIMILAR UTILITY LOCATE REQUESTS FROM SURVEYORS MAY BE IGNORED OR RESULT IN AN INCOMPLETE RESPONSE, WHICH MAY AFFECT THIS SURVEYOR'S ASSESSMENT OF THE LOCATION OF THE UTILITIES. WHERE ADDITIONAL OR MORE DETAILED INFORMATION IS REQUIRED, THE CLIENT IS ADVISED THAT THAT EXCAVATION AND/OR A PRIVATE UTILITY LOCATE REQUEST MAY BE NECESSARY. INVERT DATA SHOWN WITH A ± SHOULD BE CONSIDERED TAKEN FROM AS-BUILTS. (NM811 TICKET NO. 20AP070438)
- THE COORDINATES SHOWN HEREON REFERENCE MODIFIED NEW MEXICO STATE PLANE COORDINATES (NAD 83-CENTRAL ZONE), USING GROUND TO GRID FACTOR OF 0.99963513.

Documents

- PLAT OF BLOCKS 154 THRU 170, UNIT 17, RIO RANCHO ESTATES, FILED IN THE SANDOVAL COUNTY CLERK'S OFFICE ON JULY 18, 1969, IN RIO RANCHO ESTATES BOOK 1, PAGE 95.

Flood Notes

BASED UPON SCALING, THIS PROPERTY LIES WITHIN FLOOD ZONE X WHICH IS DEFINED AS AN AREA OF MINIMAL FLOOD HAZARD AS DETERMINED BY F.E.M.A. AND SHOWN ON THE FLOOD INSURANCE RATE MAP DATED MARCH 18, 2008, MAP NO. 35043C1894D AND 35043C1913D.

Surveyor's Certificate for Boundary

I, Will Plotner Jr., New Mexico Professional Surveyor No. 14271, do hereby certify that this boundary survey plot and the actual survey on the ground upon which it is based were performed by me or under my direct supervision; that I am responsible for this survey; that this survey meets the minimum standards for surveying in New Mexico; and that it is true and correct to the best of my knowledge and belief. I further certify that this survey is not a land division or subdivision as defined in the New Mexico subdivision act and that this instrument is a boundary survey plot of an existing tract or tracts.

Will Plotner Jr. *Will Plotner Jr.* 4/28/2020
N.M.R.P.S. No. 14271 Date



Surveyor's Certificate for Topographic Map

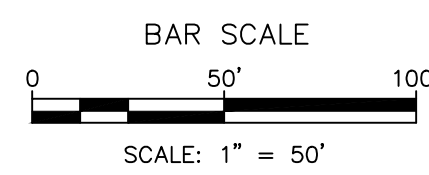
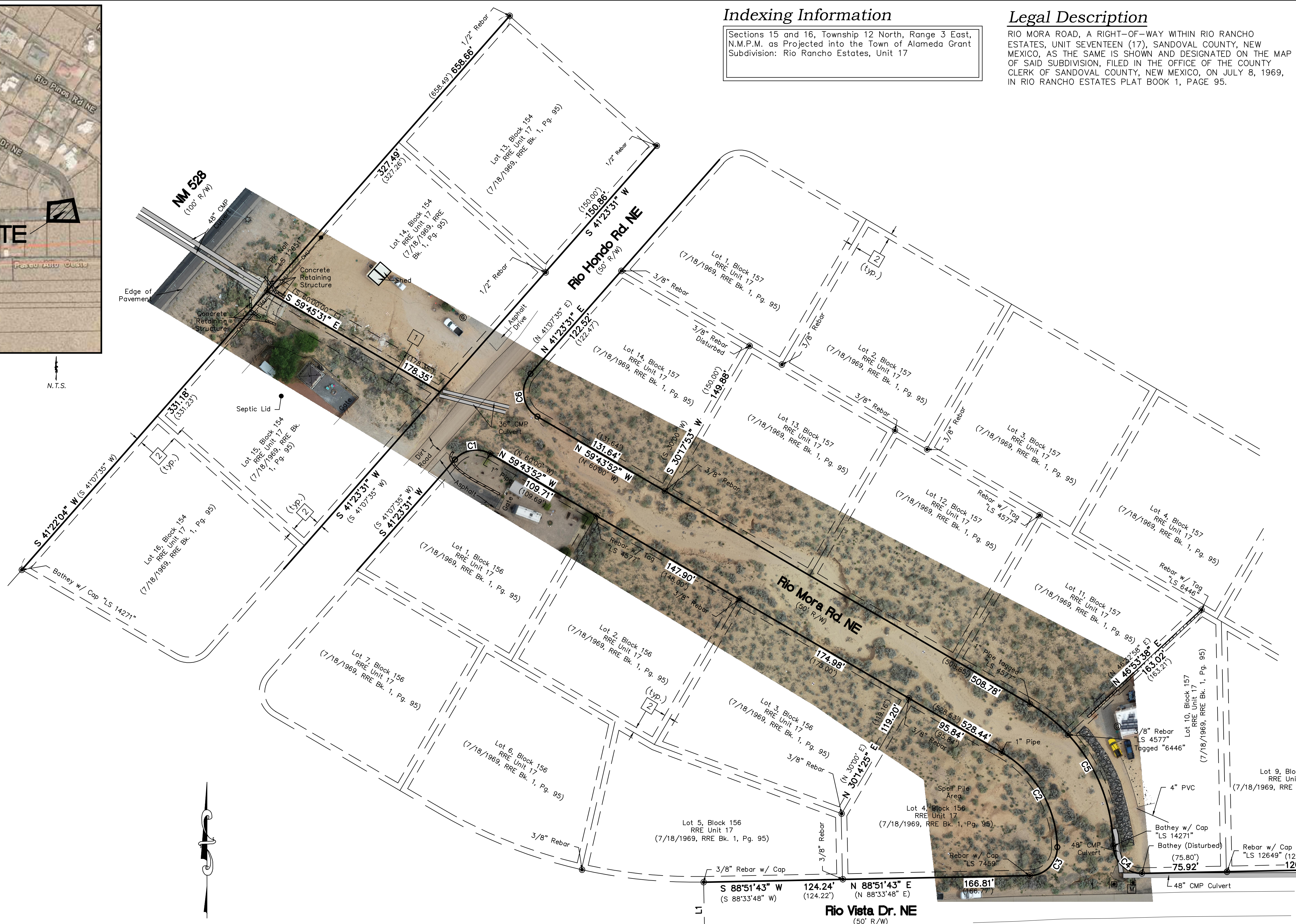
I, WILL PLOTNER JR., A NEW MEXICO REGISTERED PROFESSIONAL LAND SURVEYOR DO HEREBY CERTIFY THAT THE TOPOGRAPHIC MAP SHOWN HEREON IS TRUE AND CORRECT TO THE BEST OF MY KNOWLEDGE AND BELIEF.

Will Plotner Jr. *Will Plotner Jr.* 4/28/2020
N.M.R.P.S. No. 14271 Date



CSI-CARTESIAN SURVEYS INC.

P.O. BOX 44414 RIO RANCHO, N.M. 87174
Phone (505) 896-3050 Fax (505) 891-0244
wplotnerjr@gmail.com



Easement Notes

- EXISTING 30' DRAINAGE EASEMENT (7/18/1969, RRE Bk. 1, Pg. 95)
- EXISTING 5' UTILITY EASEMENT (7/18/1969, RRE Bk. 1, Pg. 95) TYPICAL PER PLAT OF RECORD ON ALL SIDES OF LOTS

Line #	Direction	Length (ft)
L1	S 01°08'17" E (S 01°26'12" E)	49.91' (50.00')

Curve #	Length	Radius	Delta	Chord Length	Chord Direction
C1	34.42' (34.42')	25.00' (25.00')	78°52'36"	31.76'	S 80°49'50" W
C2	102.42' (102.21')	100.00' (100.00')	58°40'51"	98.00'	N 30°23'27" W
C3	39.23' (39.27')	25.00' (25.00')	89°54'44"	35.33'	N 43°54'20" E
C4	39.30' (39.27')	25.00' (25.00')	90°04'21"	35.38'	S 46°08'13" E
C5	153.49' (153.32')	150.00' (150.00')	58°37'50"	146.88'	N 30°24'57" W
C6	44.12' (44.12')	25.00' (25.00')	101°07'24"	38.62'	S 09°10'10" E

Benchmark -NAVD 88
 CITY OF RIO RANCHO CONTROL MONUMENT LABELED
 "LN CP1" HAVING AN ELEVATION OF 5119.286'.

Legend

N 90°00'00" E	MEASURED BEARINGS AND DISTANCES
●	FOUND MONUMENT AS INDICATED
○	SET BATHEY MARKER "LS 14271" UNLESS OTHERWISE NOTED
⊠	COVERED AREA
▭	CONCRETE
—/—/—	WOOD FENCE
—x—x—	WIRE FENCE
▨	BLOCK WALL
⊞	BOLLARD
—OHU—	OVERHEAD UTILITY LINE
●	UTILITY POLE
★	LIGHT POLE
⊙	GAS METER
Ⓜ	MAILBOX
—OR—	SIGN
—G—	UNDERGROUND GAS UTILITY LINE
—W—	UNDERGROUND WATER UTILITY LINE
—SAS—	UNDERGROUND SANITARY SEWER LINE
—E—	UNDERGROUND ELECTRIC UTILITY LINE
—FO—	UNDERGROUND FIBER OPTIC UTILITY LINE
—SD—	UNDERGROUND STORM DRAIN UTILITY LINE
5075.50	SPOT ELEVATION
FL 5075.50	FLOW LINE ELEVATION
EP 5075.50	EDGE OF PAVEMENT ELEVATION
TA 5075.50	TOP OF ASPHALT ELEVATION
TC 5075.50	TOP OF CONCRETE ELEVATION
TOP 5075.50	TOP OF SLOPE ELEVATION
TOE 5075.50	TOE OF SLOPE ELEVATION
Ⓜ	RIP RAP
—	DRAINAGE CULVERT

Boundary Survey and Topographic Map for Right-of-Way of Rio Mora Road with Portions of Rio Hondo Road and Rio Vista Drive within Rio Rancho Estates, Unit 17
 City of Rio Rancho
 Sandoval County, New Mexico
 April 2020

Line Table

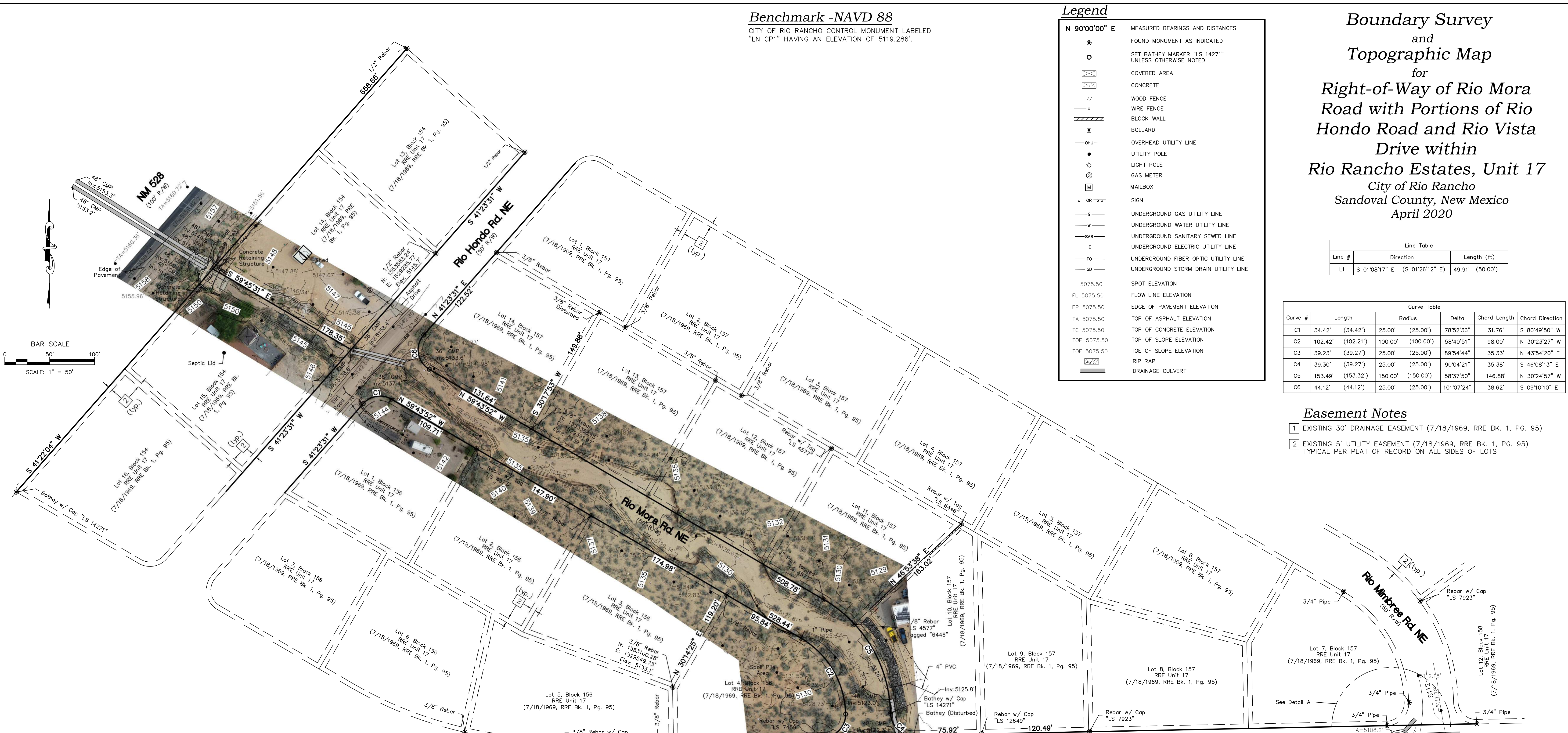
Line #	Direction	Length (ft)
L1	S 01°08'17" E (S 01°26'12" E)	49.91' (50.00')

Curve Table

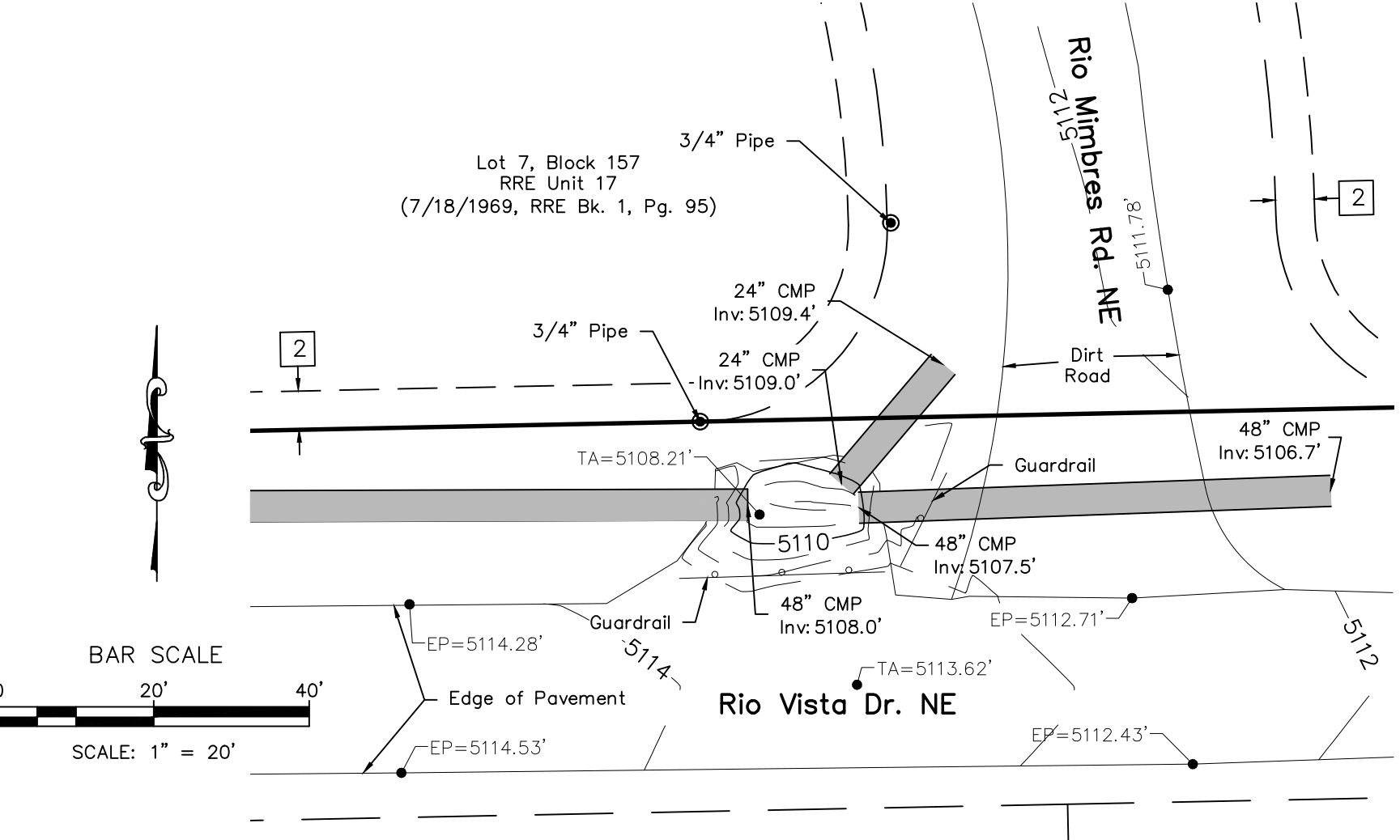
Curve #	Length	Radius	Delta	Chord Length	Chord Direction
C1	34.42' (34.42')	25.00' (25.00')	78°52'36"	31.76'	S 80°49'50" W
C2	102.42' (102.21')	100.00' (100.00')	58°40'51"	98.00'	N 30°23'27" W
C3	39.23' (39.27')	25.00' (25.00')	89°54'44"	35.33'	N 43°54'20" E
C4	39.30' (39.27')	25.00' (25.00')	90°04'21"	35.38'	S 46°08'13" E
C5	153.49' (153.32')	150.00' (150.00')	58°37'50"	146.88'	N 30°24'57" W
C6	44.12' (44.12')	25.00' (25.00')	101°07'24"	38.62'	S 09°10'10" E

Easement Notes

- EXISTING 30' DRAINAGE EASEMENT (7/18/1969, RRE BK. 1, PG. 95)
- EXISTING 5' UTILITY EASEMENT (7/18/1969, RRE BK. 1, PG. 95) TYPICAL PER PLAT OF RECORD ON ALL SIDES OF LOTS

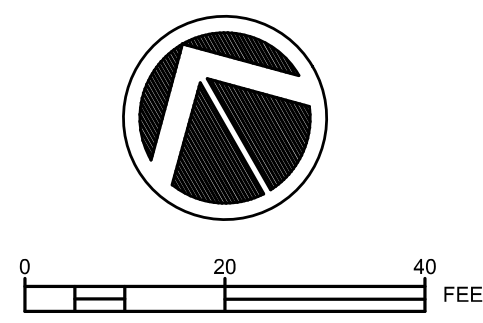
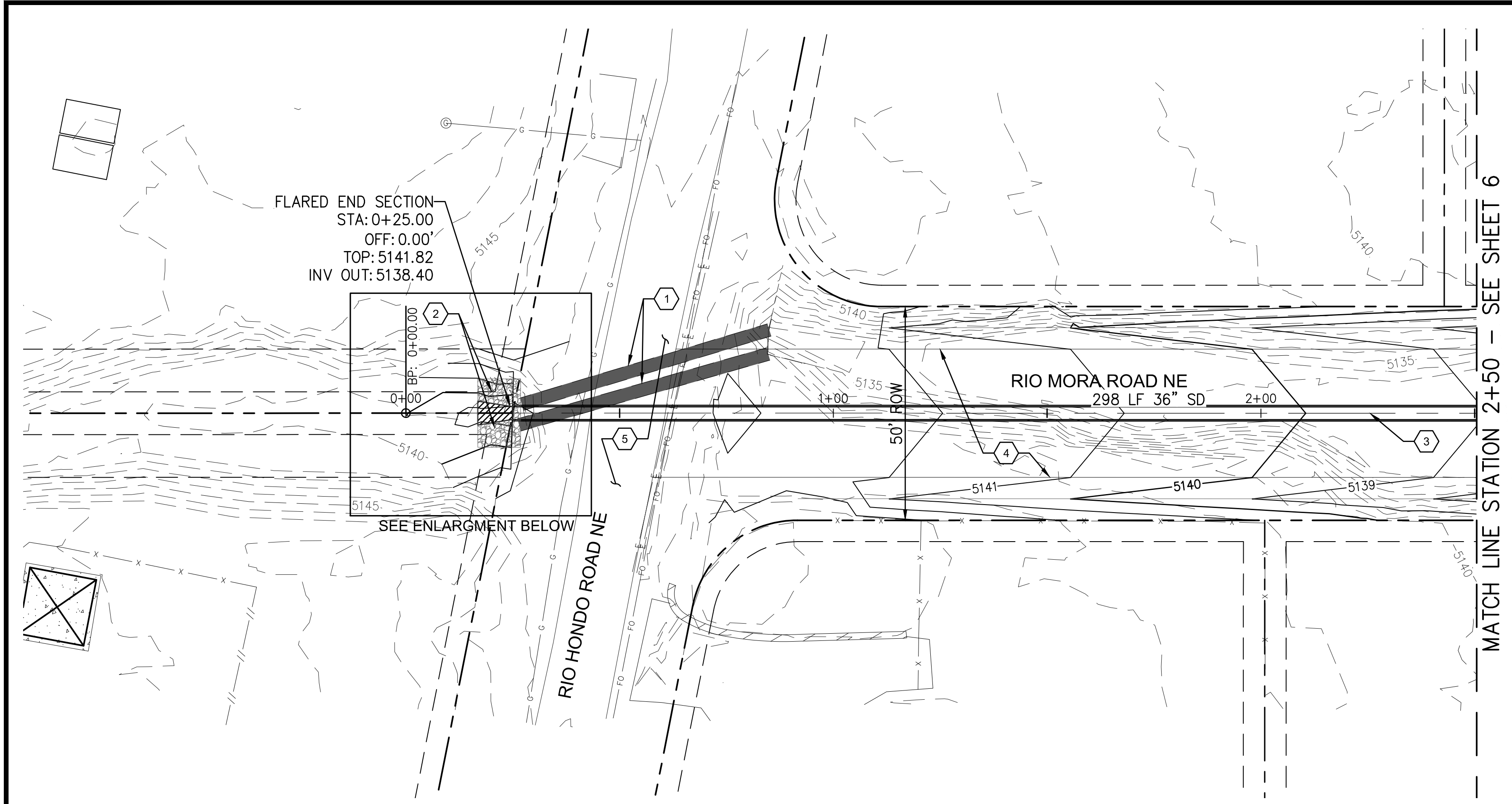


Detail A - Culvert Material Piles



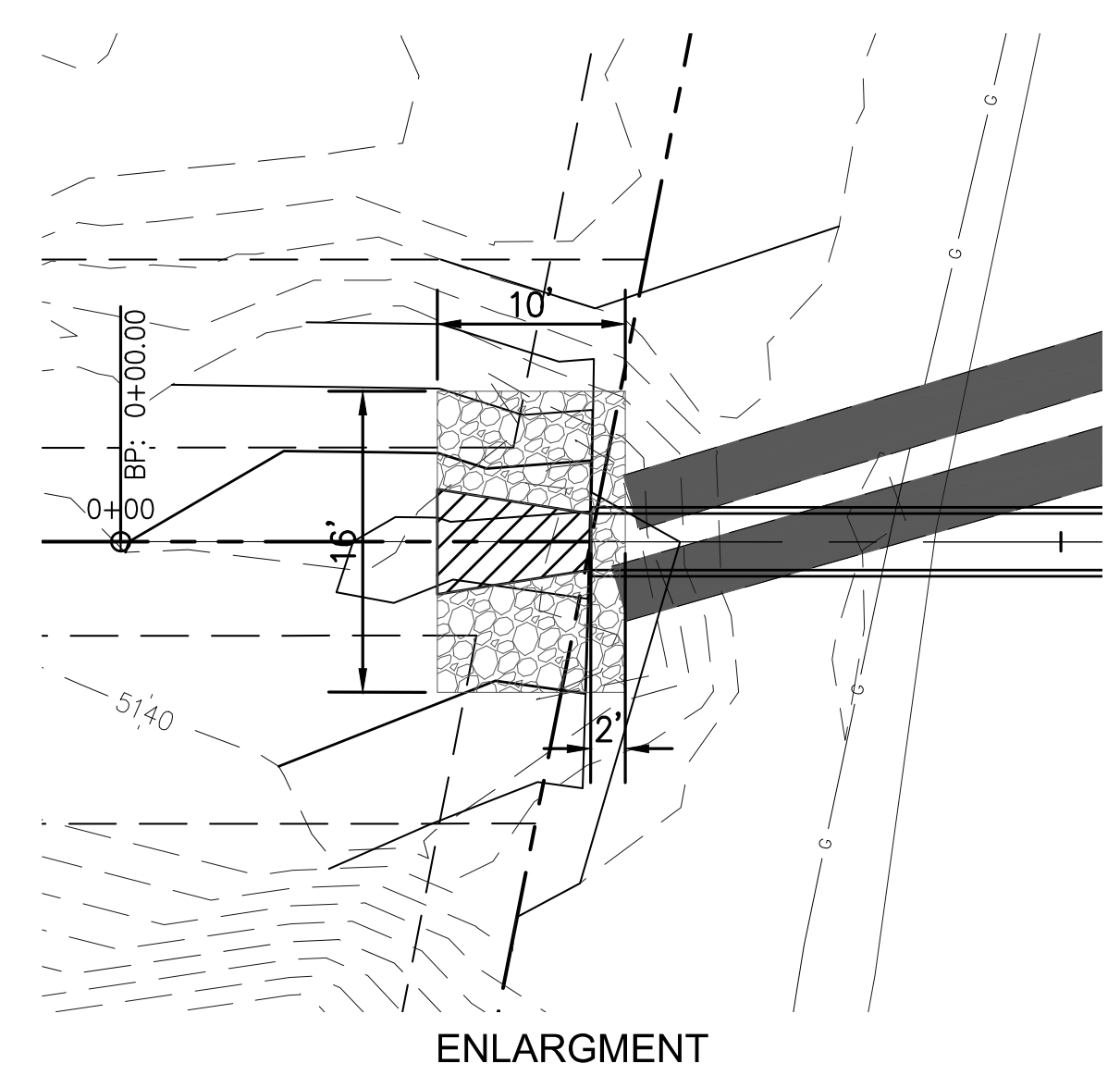
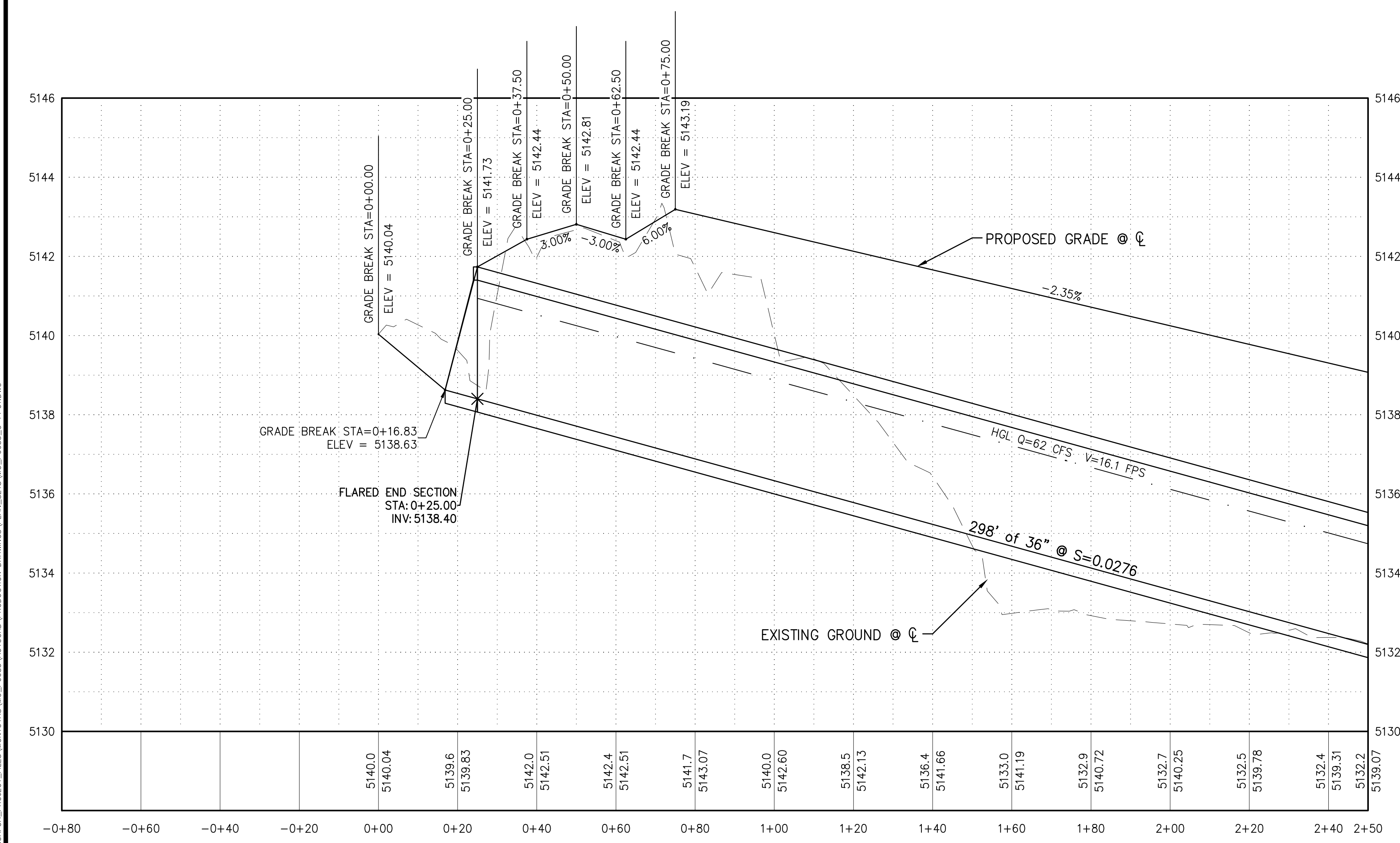
CSI-CARTESIAN SURVEYS INC.
 P.O. BOX 44414 RIO RANCHO, N.M. 87174
 Phone (505) 896-3050 Fax (505) 891-0244
 wplotnerjr@gmail.com

Tuesday, August 25, 2020 8:15:26 AM -KFOURNIER
 C:\SSCA\CA_PROJECT_FILES\MONTAVAS_MO_P0083\AUTOCAD\PRODUCTION_DRAWINGS\PLAN_SITING\MO_P0083_C-PROT.DWG



**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

- KEYED NOTES:**
1. REMOVE EXISTING (2) 36" CMP CULVERT & DISPOSE OF THEM PROPERLY.
 2. INSTALL 5 CY DUMPED RIPRAP D₅₀=6" , 12" DEEP W/FILTER FABRIC PER APWA SPECIFICAION 109.
 3. INSTALL 36" STORM DRAIN W/ FLARED END SECTION AT STA 0+25. SELECTED STORM DRAIN MUST HAVE A MANNING'S COEFFICIENT OF n=0.013 OR LOWER.
 4. GRADE ROAD WITHIN ROW PER TYPICAL SECTION 1 SHOWN ON SHEET 8.
 5. ESTABLISH RIO HONDO ROAD TO MATCH EXISTING GRADE AND RESTORE ROAD SURFACE MATERIAL. ROAD SURFACE MATERIAL CONSIDERED INCIDENTAL TO THE PROJECT.

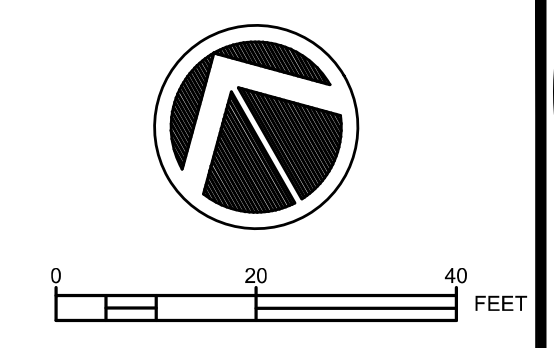
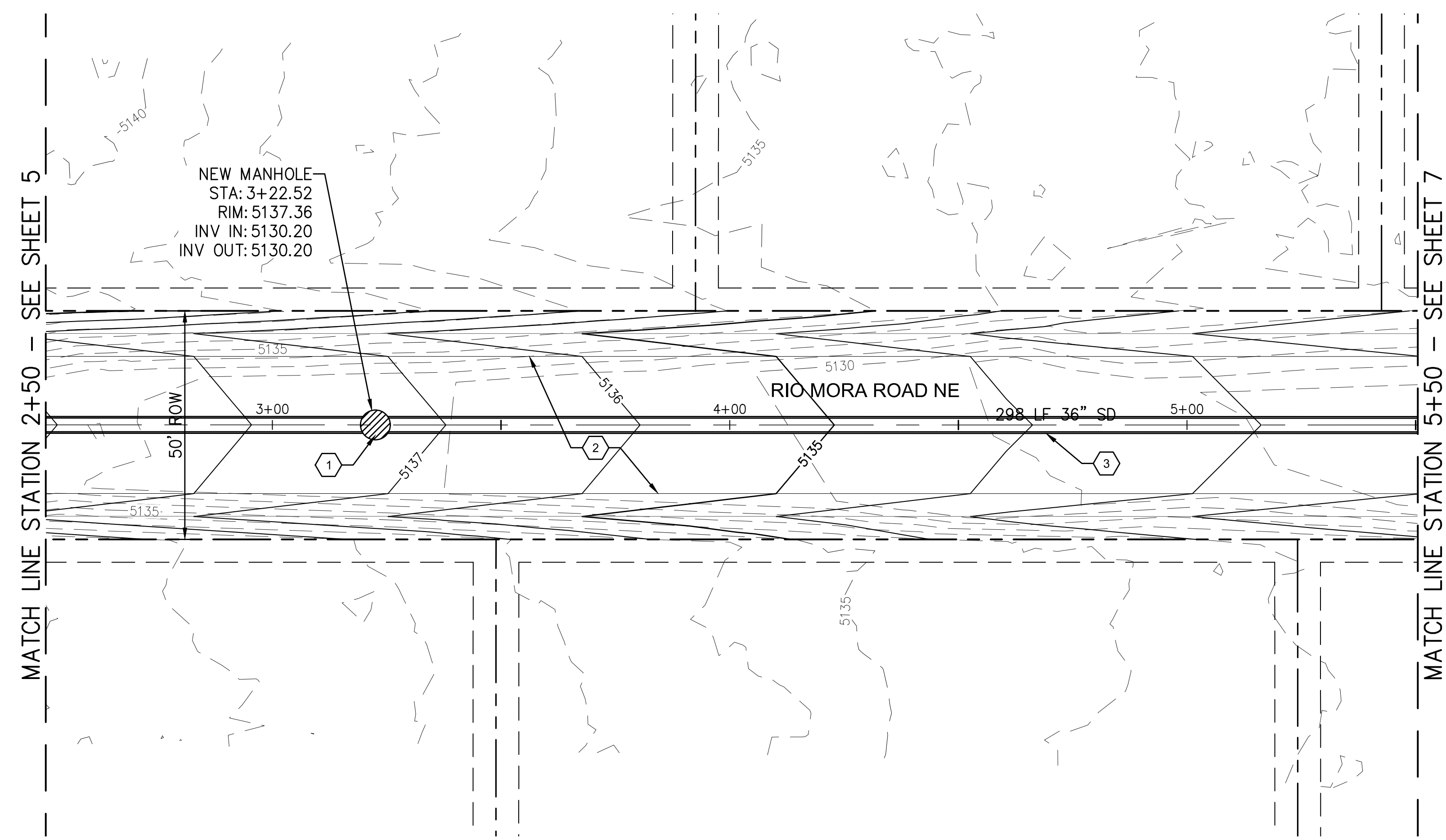


RIO MORA ROAD STORM DRAIN
 PLAN & PROFILES
 STATION 0+00 - 2+50

REVISIONS & CHANGE NOTICES		
MARK	DESCRIPTION	DATE

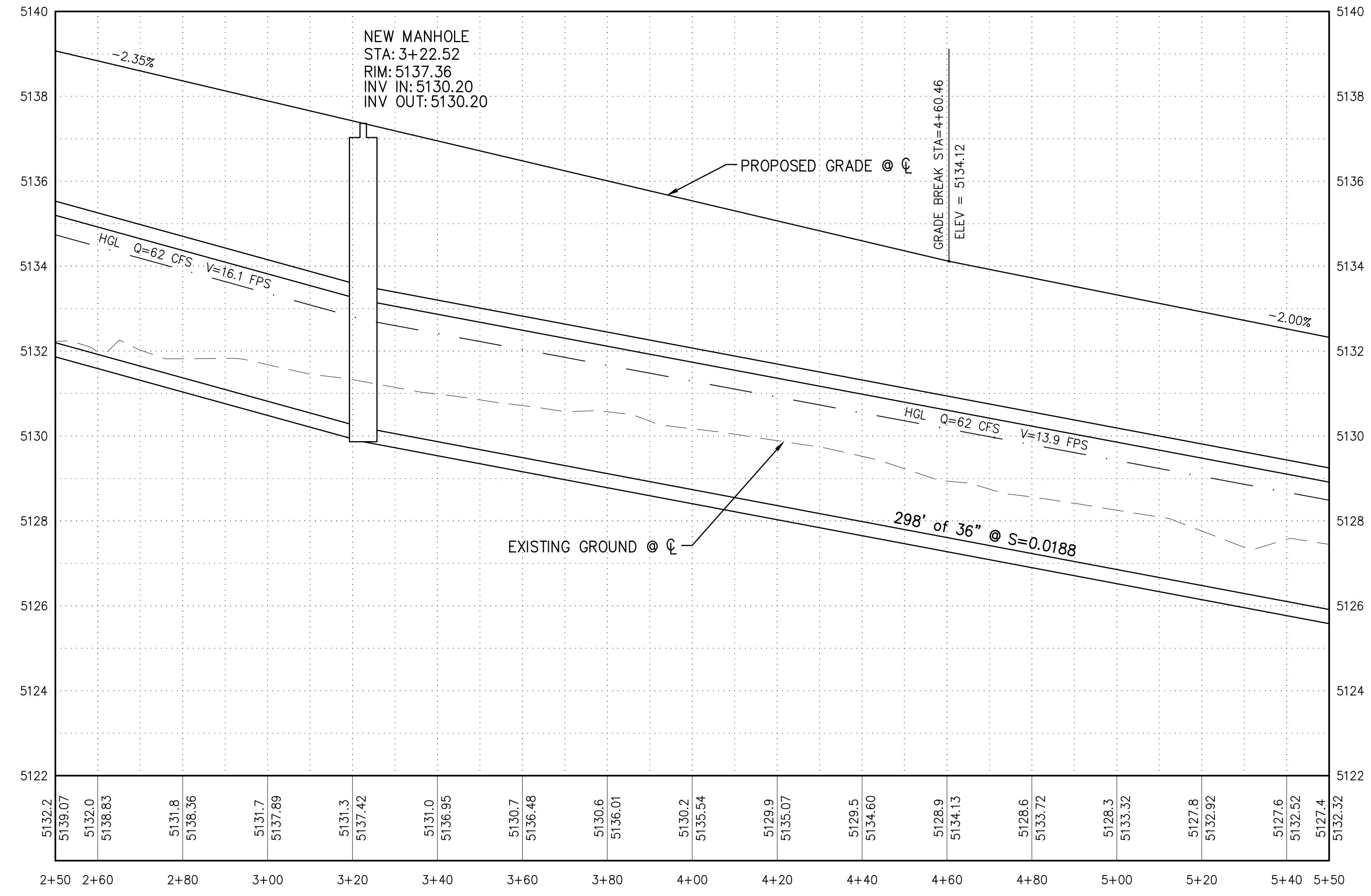
PROJECT NO: MO_P0083
 DESIGNED BY: JB
 DRAWN BY: KLF
 CHECKED BY: AES
 DATE: 8/25/2020

Tuesday, August 25, 2020 8:15:26 AM - KFOURNER
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KEYED NOTES:

1. INSTALL 6' TYPE 'C' MANHOLE AT STA 3+22.52 SEE CORR DETAIL DWG. NO. S-03-01&02 AS SHOWN ON SHEET 8.
2. GRADE ROAD WITHIN ROW PER TYPICAL SECTION 1 SHOWN ON SHEET 8.
3. INSTALL 36" STORM DRAIN. SELECTED STORM DRAIN MUST HAVE A MANNING'S COEFFICIENT OF $n=0.013$ OR LOWER.



**Southern Sandoval
 County
 Arroyo Flood Control
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 Rio Rancho, New Mexico 87124
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RIO MORA ROAD STORM DRAIN

PLAN & PROFILES
 STATION 2+50 - 5+50

REVISIONS & CHANGE NOTICES		
MARK	DESCRIPTION	DATE

PROJECT NO: MO_P0083
 DESIGNED BY: JB
 DRAWN BY: KLF
 CHECKED BY: AES
 DATE: 8/25/2020



**Southern Sandoval County
Arroyo Flood Control Authority**

1041 Commercial Dr. S.E.
Rio Rancho, New Mexico 87124
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505-892-7241 (Fax)
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RIO MORA ROAD STORM DRAIN

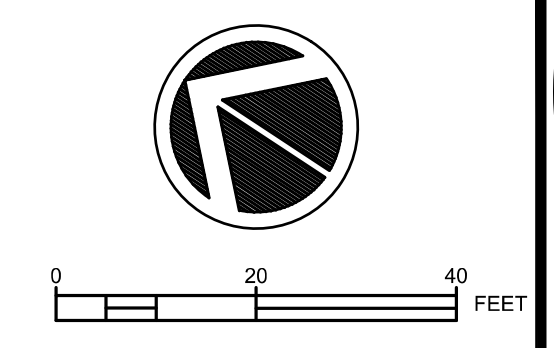
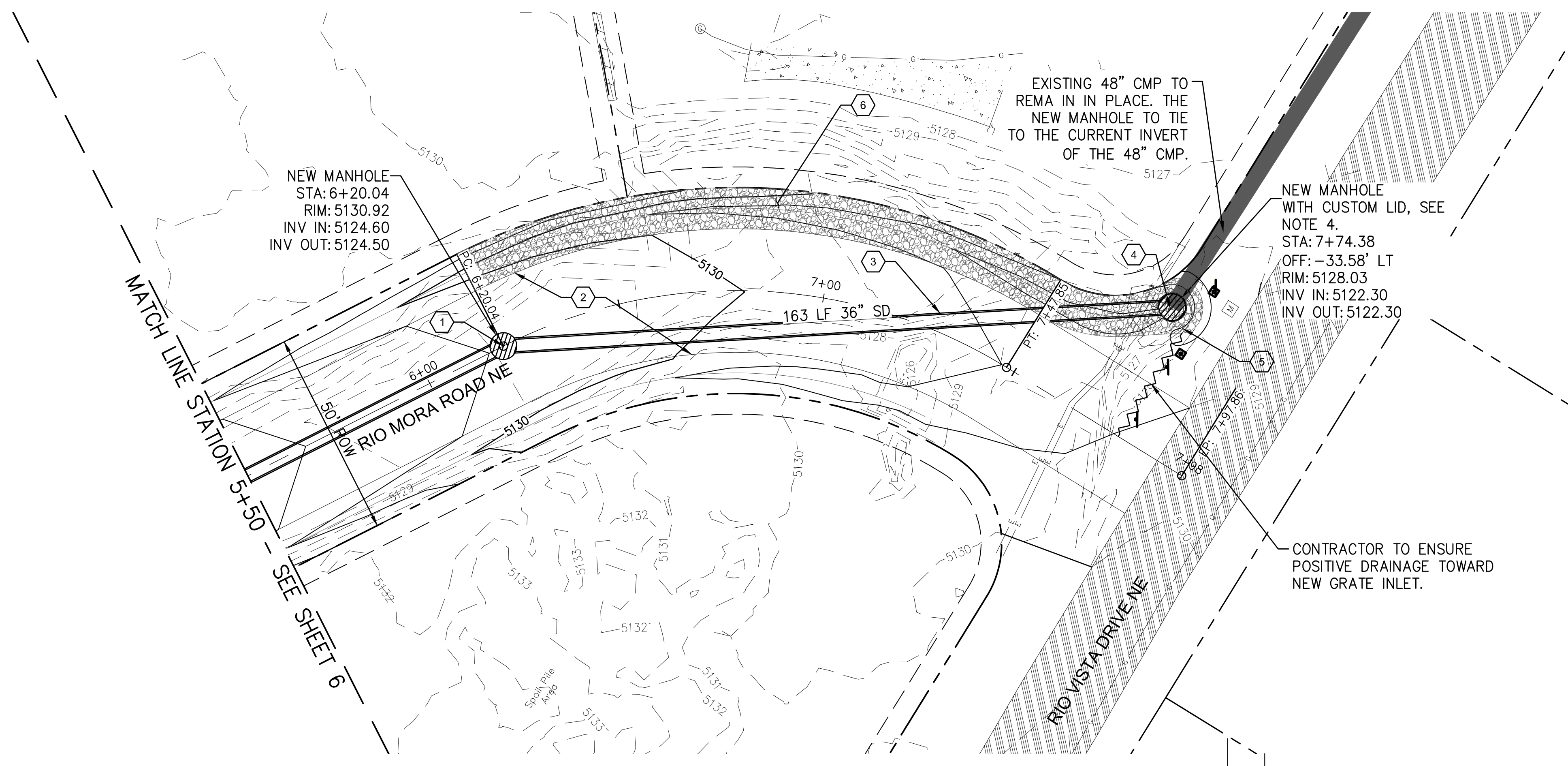
PLAN & PROFILES
STATION 5+50 - 8+50

REVISIONS & CHANGE NOTICES		
MARK	DESCRIPTION	DATE

PROJECT NO: MO_P0083
DESIGNED BY: JB
DRAWN BY: KLF
CHECKED BY: AES
DATE: 8/25/2020

7

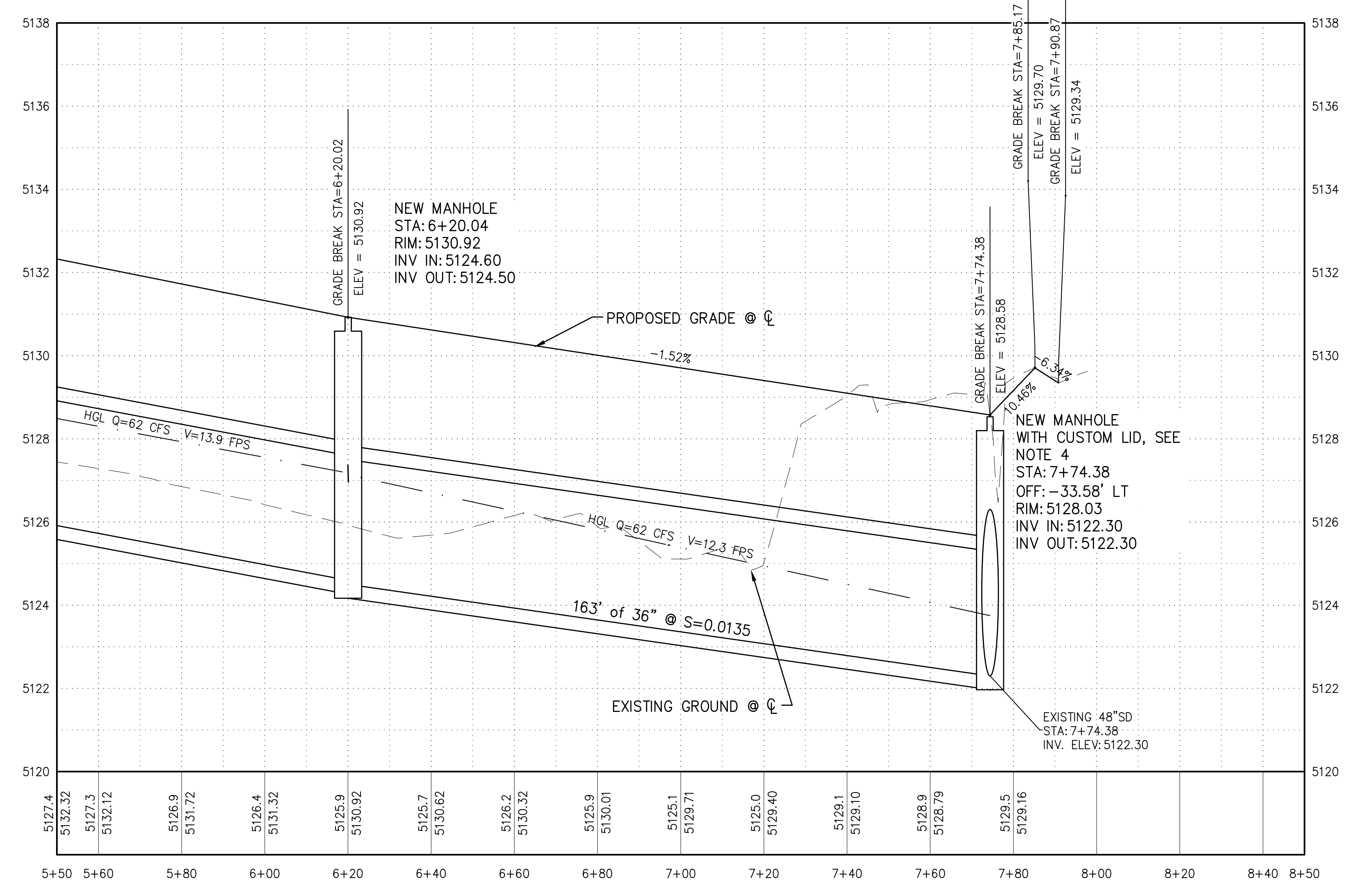
SHEET 7 OF 8



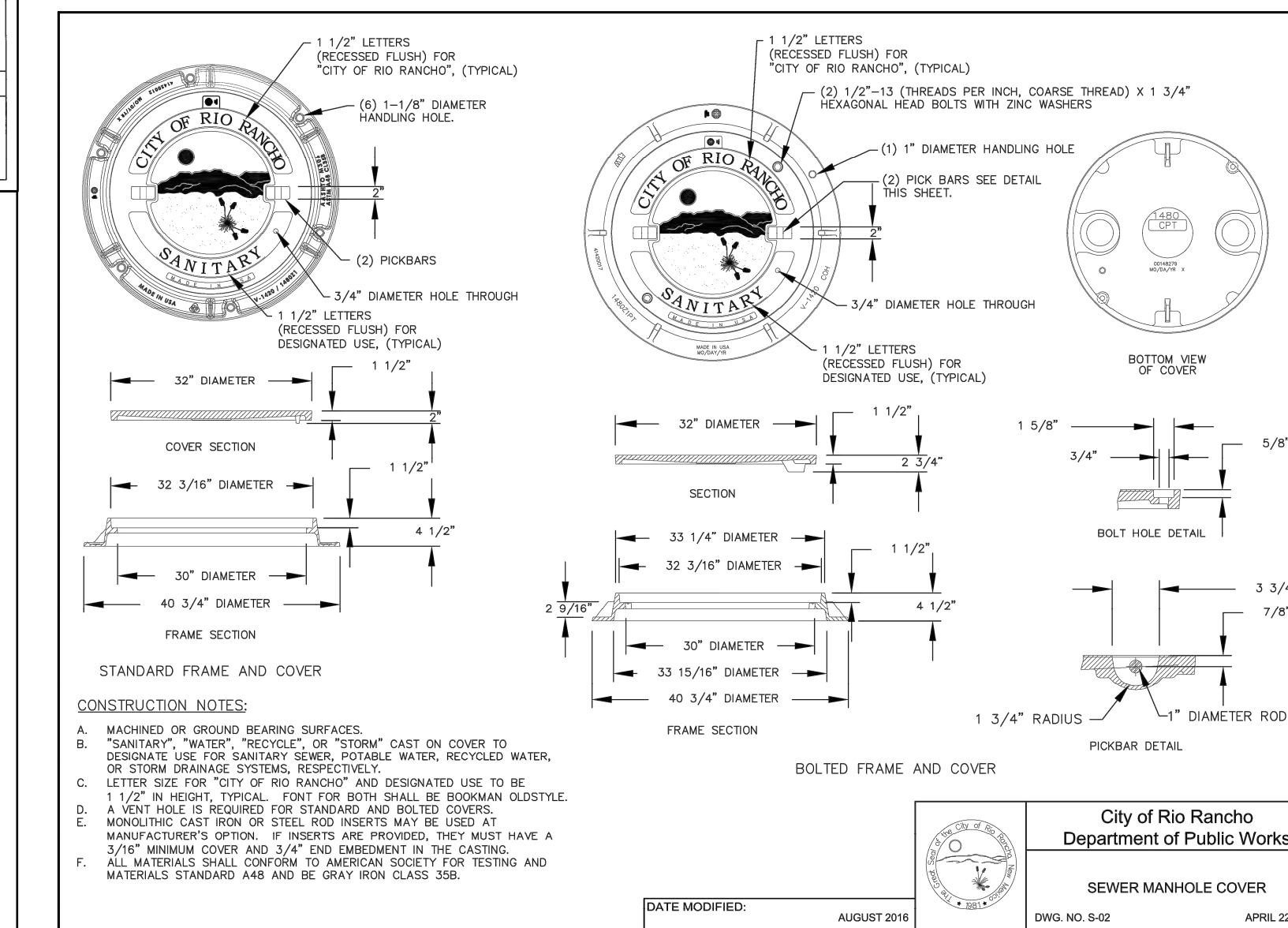
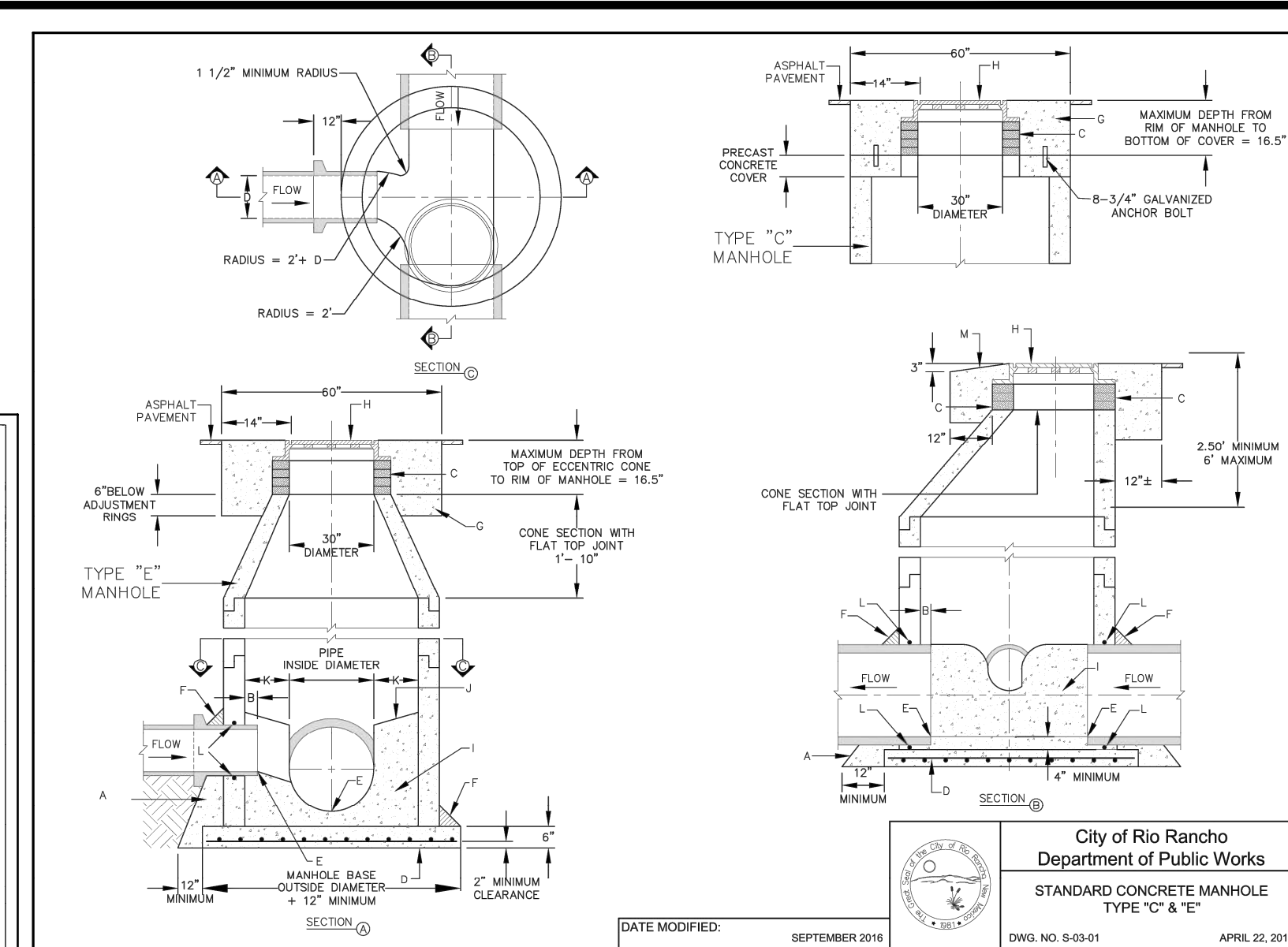
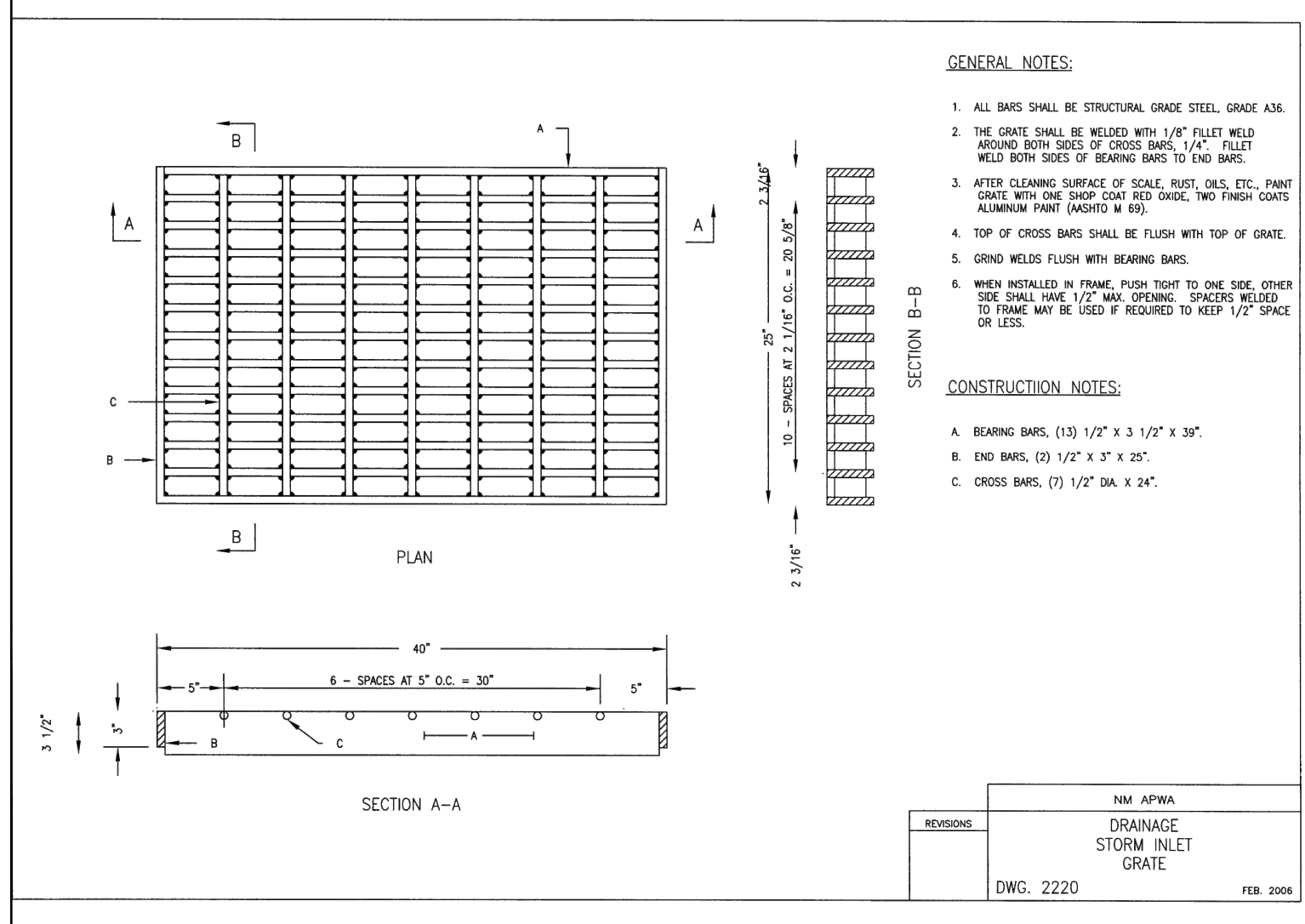
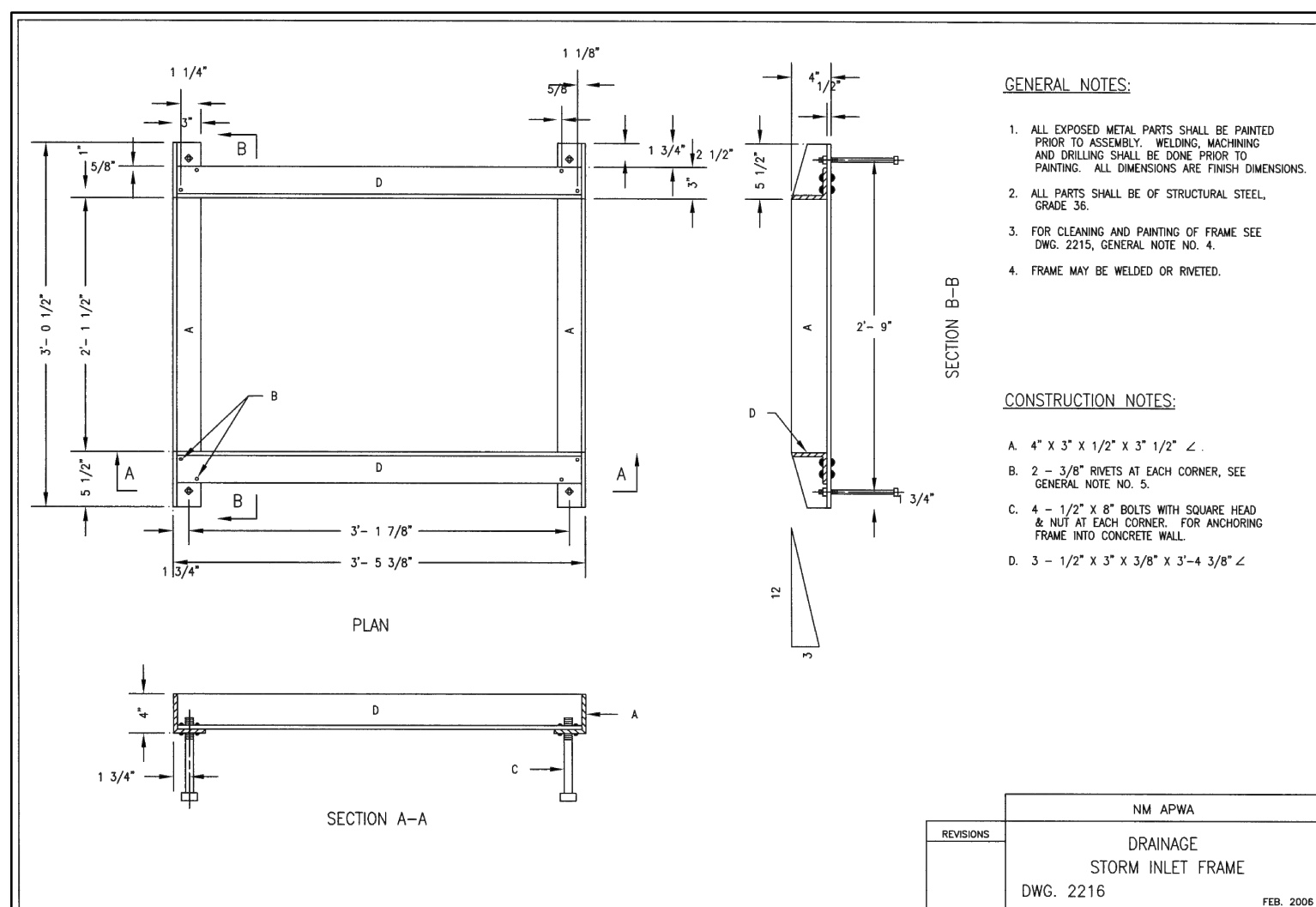
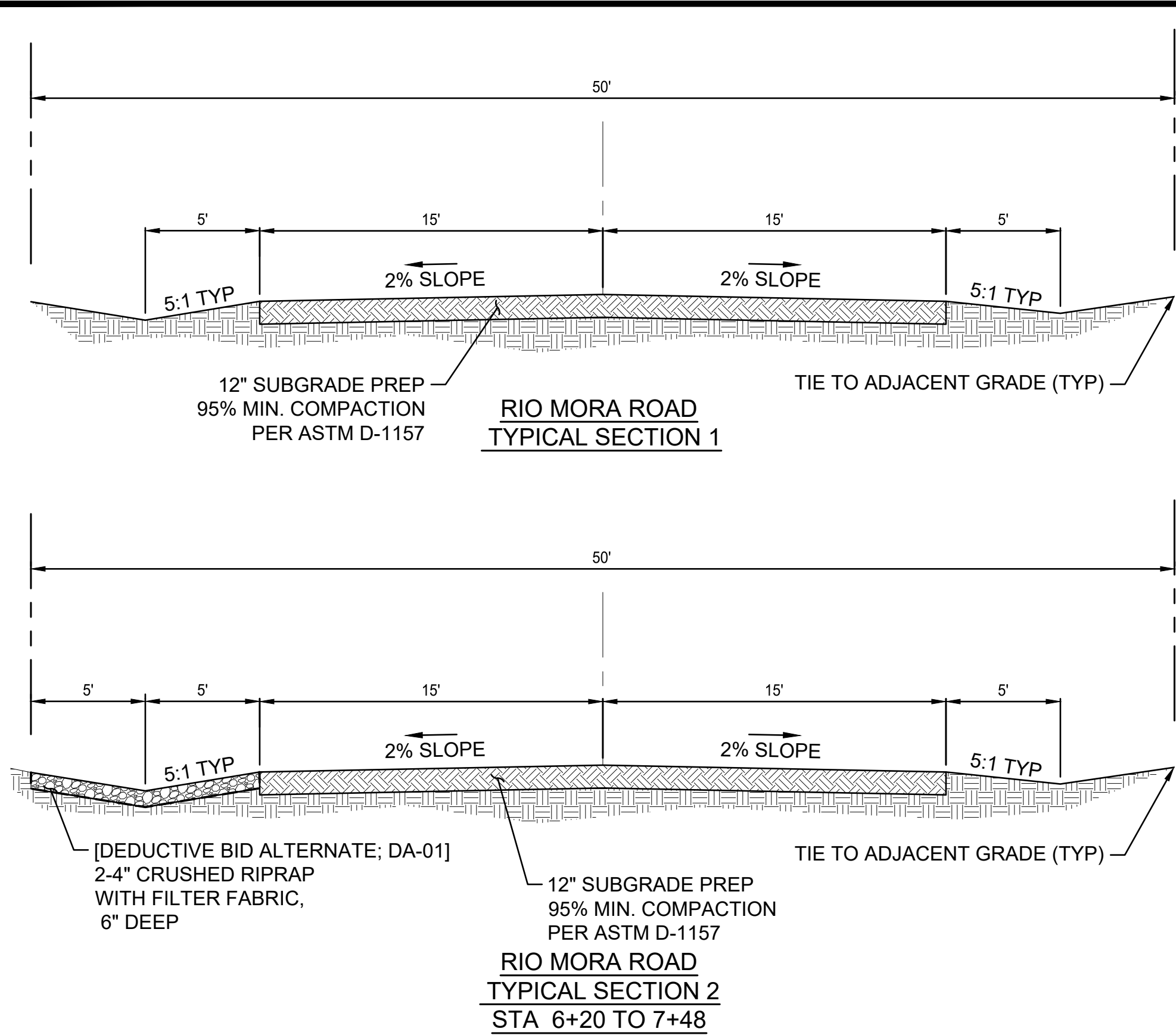
KEYED NOTES:

- INSTALL 6' TYPE 'C' MANHOLE AT STA 3+22.52 SEE CORR DETAIL DWG. NO. S-03-01&02 AS SHOWN ON SHEET 8.
- GRADE ROAD WITHIN ROW PER TYPICAL SECTION 1 & 2 SHOWN ON SHEET 8, TRANSITION CROWN SECTION TO EXISTING PAVEMENT IN RIO VISTA DRIVE FROM STA. 7+47.85 TO EDGE OF PAVEMENT.
- INSTALL 36" STORM DRAIN. SELECTED STORM DRAIN MUST HAVE A MANNING'S COEFFICIENT OF n=0.013 OR LOWER.
- INSTALL 6' TYPE 'C' MANHOLE AT STA 7+74.38 OFFSET 33.58' LT SEE CORR DETAIL DWG. NO. S-03-01&02 AS SHOWN ON SHEET 8, SUBSTITUTE STANDARD MANHOLE LID GRATE AND FRAME SHOWN ON APWA 2216 & 2220.
- REMOVE EXISTING ASPHALT PAVING & DISPOSE OF PROPERLY.
- INSTALL 2-4" CRUSHED RIPRAP WITH FILTER FABRIC. 6" THICK. 2-4" CRUSHED RIPRAP TO BE APPROVED BY ENGINEER.

[DEDUCTIVE BID ALTERNATE: DA-01]



Tuesday, August 25, 2020 8:15:26 AM - KFOURNER
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LETTERING = AS NOTED
ARIAL FONT
SSCAFCA LOGO = 12" DIAMETER
SIGN: 3/4" PLYWOOD
WHITE BACKGROUND

2" HIGH BOLD/ITALICS LETTERING

2" HIGH LETTERING

SOUTHERN SANDOVAL COUNTY ARROYO FLOOD CONTROL AUTHORITY

YOUR STATE FUNDS AT WORK

SSCAFCA BOARD
JAMES F. FAHEY, JR.
JOHN CHANEY
MARK CONKLING
STEVEN M. HOUSE
MICHAEL OBREY

LEGISLATIVE SPONSOR
REPRESENTATIVE
POWDRELL-CULBERT

PROJECT NAME AND DESCRIPTION
PROJECT COST: \$XXX,XXX
START: XXXXXXXX 20XX
END: XXXXXXXX 20XX

PROJECT MANAGER: _____, P.E.
ENGINEER: _____
CONTRACTOR: _____, INC.

1.25" HIGH LETTERING

2" HIGH LETTERING

"FLOOD CONTROL TODAY FOR A SAFER TOMORROW"

Southern Sandoval County
Arroyo Flood Control Authority
STANDARD DRAWING
M201-SF
PROJECT CONSTRUCTION SIGN (4'X8')

M201-SF.DWG August 25, 2020

SSCAFCA

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

JUNCO BOAT
NEW MEXICO
21552
8-27-2020
PROFESSIONAL ENGINEER

RIO MORA ROAD STORM DRAIN DETAILS

REVISIONS & CHANGE NOTICES

MARK	DESCRIPTION	DATE

PROJECT NO: MO_P0083
DESIGNED BY: JB
DRAWN BY: JLF
CHECKED BY: AES
DATE: 8/25/2020

Tuesday, August 25, 2020 10:48:23 AM - Kathy Frazier
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