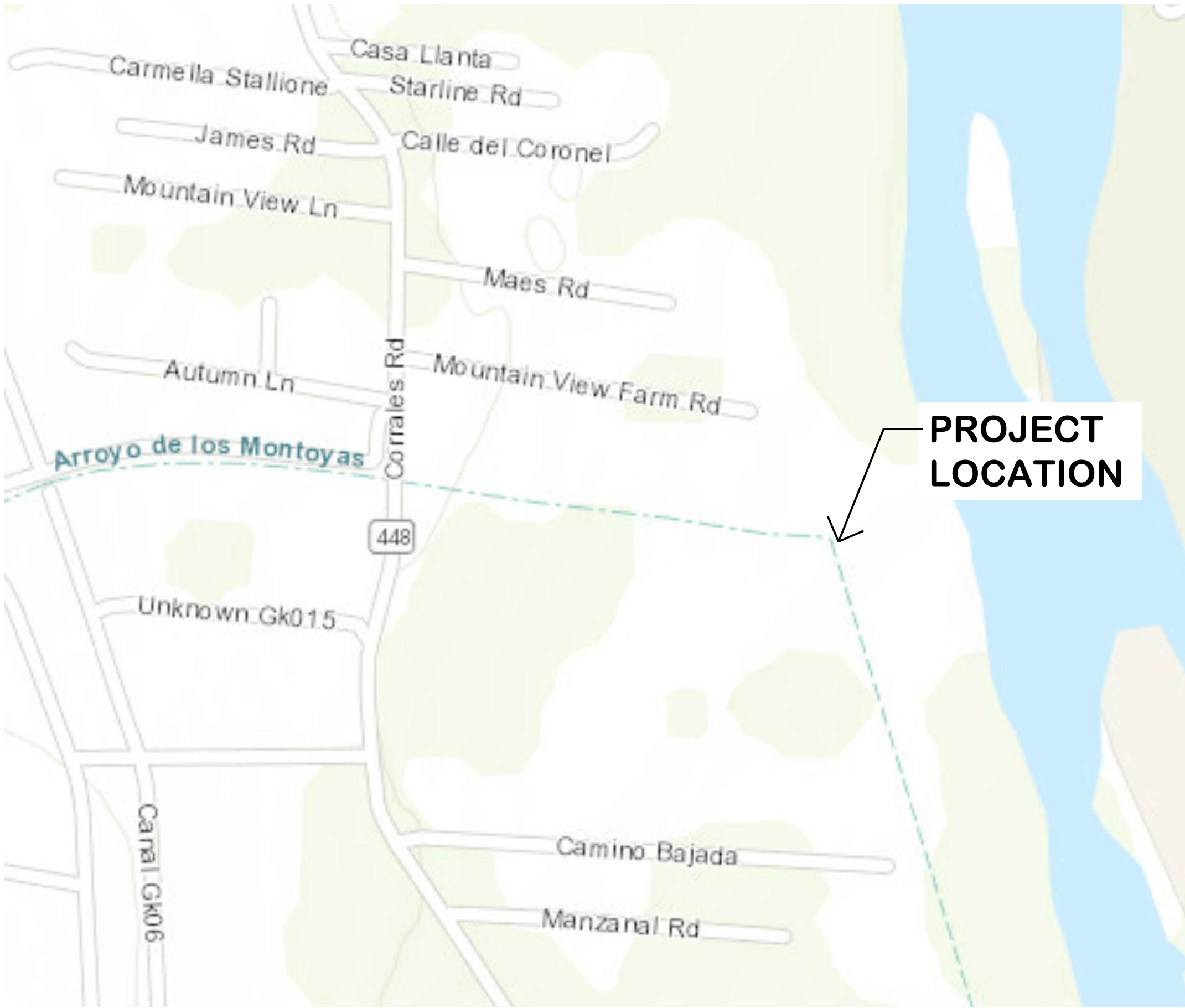


SOUTHERN SANDOVAL COUNTY  
ARROYO FLOOD CONTROL  
AUTHORITY  
HARVEY JONES CHANNEL  
RIVER OUTFALL  
SSCAFCA Project No. MO\_P0040-01  
MONTOYAS ARROYO WATERSHED



VICINITY MAP

SHEET INDEX	
SHEET NO.	SHEET TITLE
1	COVER SHEET
2	GENERAL NOTES
3	SURVEY SHEET 1
4	SURVEY SHEET 2
5	SURVEY SHEET 3
6	SITE LAYOUT PLAN
7	SEWER EFFLUENT CHANNEL EXCAVATION
S-1	ADDITIONAL GENERAL NOTES
S-2	PLAN AND SECTIONS
S-3	PLAN AND SECTIONS
S-4	DETAILS
U-1	PLAN
U-2	DETAILS

APPROVALS

SSCAFCA: \_\_\_\_\_ DATE: \_\_\_\_\_  
EXECUTIVE ENGINEER

CITY OF RIO RANCHO \_\_\_\_\_ DATE: \_\_\_\_\_  
UTILITY DEPARTMENT

MIDDLE RIO GRANDE CONSERVANCY DISTRICT: \_\_\_\_\_ DATE: \_\_\_\_\_  
CHIEF 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](http://www.sscafca.com)



HARVEY JONES CHANNEL  
RIVER OUTFALL

COVER SHEET

REVISIONS & CHANGE NOTICES		
MARK	DESCRIPTION	DATE

PROJECT NO: MO\_P0040-01  
DESIGNED BY: DG  
DRAWN BY: KLF  
CHECKED BY: AE  
DATE: 10/25/2021

Notice of Extended Payment Provision  
This contract allows the owner to make payment within 45 days after submission of an undisputed request for payment.

Friday, September 3, 2021 9:45:57 AM - Kathy Fournier  
© SCAFCFA, Project Files Montoya MO\_P0040-01 AutoCAD Production Drawings\Plan\_Sets\MO\_P0040-01\_G-001.dwg

GENERAL NOTES

1. 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.
3. 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 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.
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/ENGINEER (SSCAFCA), THE VILLAGE OF CORRALES FIRE DEPARTMENT.
6. THE CONTRACTOR IS RESPONSIBLE FOR OBTAINING ALL NECESSARY PERMITS FROM ALL JURISDICTIONAL AUTHORITIES PRIOR TO START OF CONSTRUCTION.
7. 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.
8. 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/ENGINEER (SSCAFCA) 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/ENGINEER (SSCAFCA) 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 / ENGINEER (SSCAFCA).
14. 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.
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 / ENGINEER (SSCAFCA) 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, 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.
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 / ENGINEER (SSCAFCA) PRIOR TO FINAL PAYMENT.
23. THE CONTRACTOR SHALL ENSURE THAT ALL CONSTRUCTION ACTIVITIES, PERMITTING, AND SUBMITTALS ARE IN ACCORDANCE WITH THE SCAFCFA / VILLAGE OF CORRALES LOCAL 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 3,500 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.
28. CONTRACTOR SHALL PLACE "TRAIL CLOSED" SIGNS AT NORTH AND SOUTH ENTRANCES TO THE PROJECT SITE AND ANY REQUIRED NOTIFICATION SIGNS (E.G. "TRUCKS TURNING") AT THE INTERSECTION OF ROMERO ROAD AND CORRALES ROAD THIS SHALL INCIDENTAL TO THE PROJECT COST.

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 SWPPP BID AMOUNT.
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 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.
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 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.
11. 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.
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.
- | MATERIALS  | PERCENT (%)<br>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                        |
2. AT ALL FINAL GRADES, WITH THE EXCEPTION OF AREA WITH IMPROVEMENTS, SHALL BE DISKED OR RIPPED TO A DEPTH OF 12" TO FACILITATE PLANT GROWTH.
3. ALL SOIL REMOVAL WITHIN 10 FEET OR THE RIVER (EASTERN PERIMETER OF GRADING), SHALL BE PERFORMED USING AN EXCAVATOR AND CONTRACTOR SHALL PREVENT ANY SOILS FROM BEING PLACED WITHIN THE ORDINARY HIGH WATER MARK OF THE RIVER.

ABBREVIATIONS

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



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](http://www.sscafca.com)



HARVEY JONES CHANNEL  
RIVER OUTFALL

GENERAL NOTES

REVISIONS & CHANGE NOTICES		
MARK	DESCRIPTION	DATE

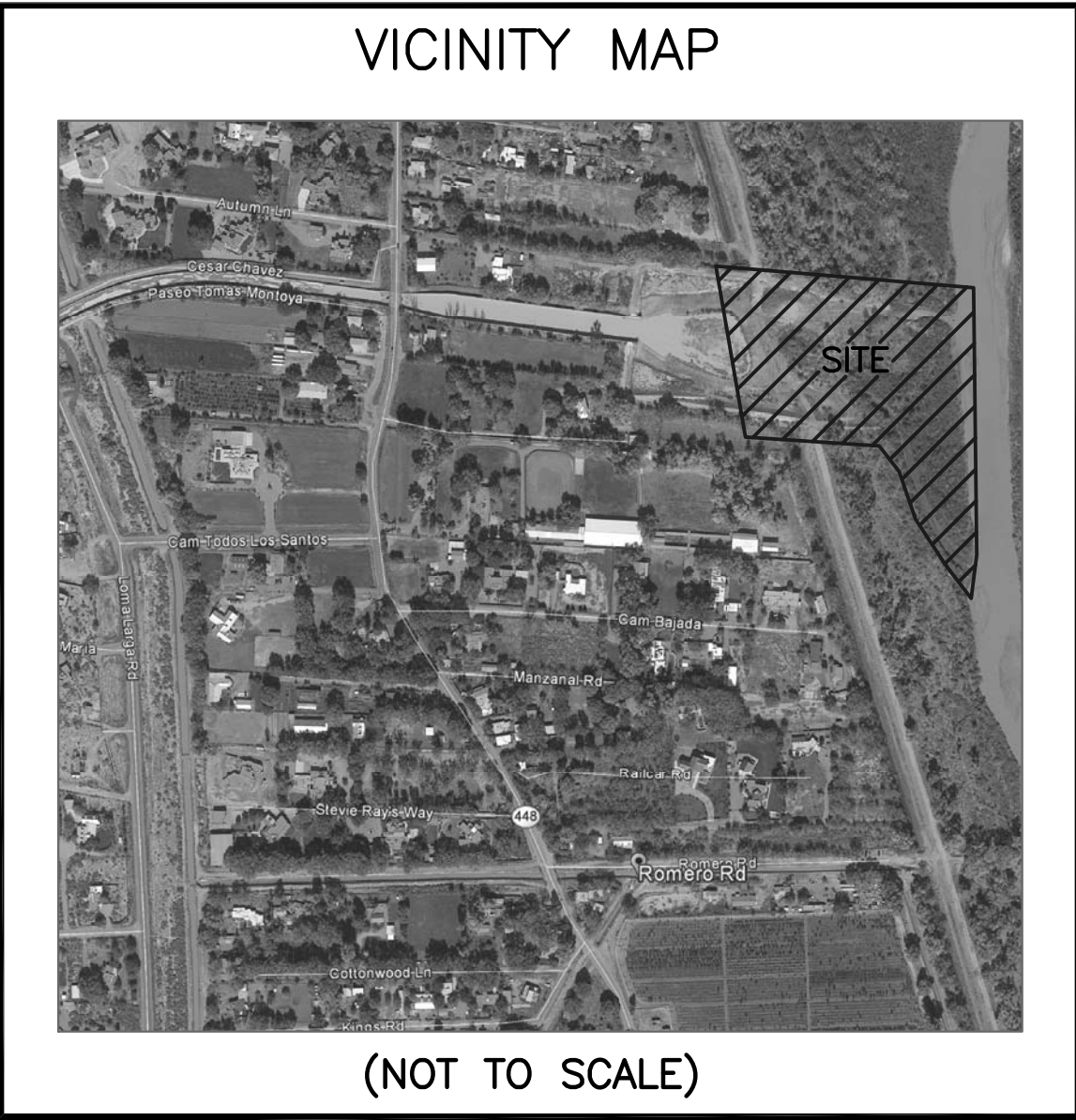
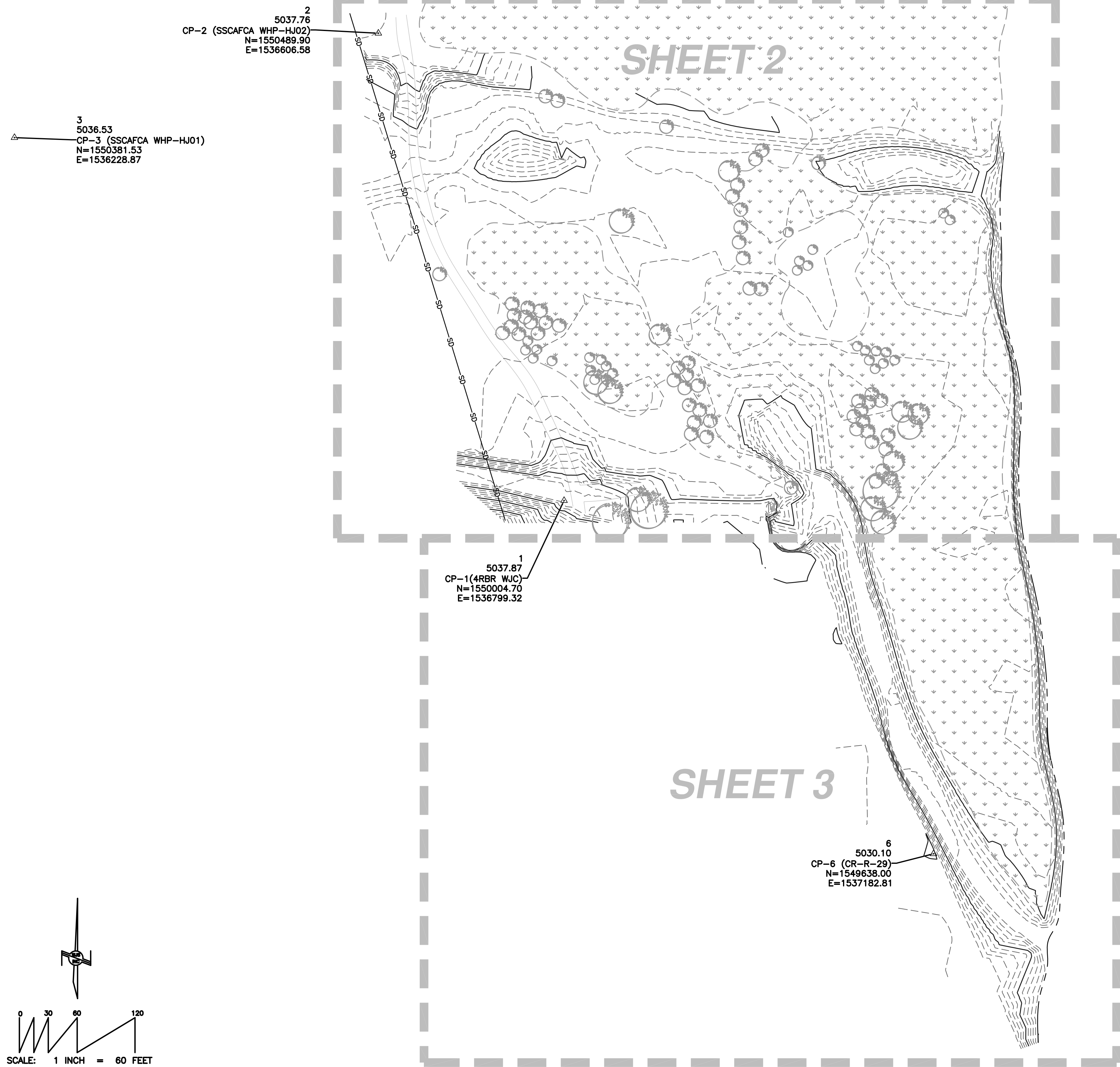
PROJECT NO: MO\_P0040-01  
DESIGNED BY: DG  
DRAWN BY: KLF  
CHECKED BY: AE  
DATE: 9/3/2021

Notice of Extended Payment Provision

This contract allows the owner to make payment within 45 days after submission of an undisputed request for payment.



TOPOGRAPHIC SURVEY



**SURVEY LEGAL DESCRIPTION:**  
A portion of land in and around the Harvey Jones Channel, being located adjacent to the Rio Grande River, in Corrales, Sandoval County, New Mexico.

**FLOOD INFORMATION:**  
This property does lie in an area covered by a formal F.E.M.A. Flood Study. Property lies within Zone "AO (Depth 1") and Zone AE (Elev. 5032') (100 Flood Hazards) and is not subject to 100 Year Flood Hazards. Reference: Flood Insurance Rate Map. New Mexico Panel 350094 1913 D. Effective Date: March 18 2008.

**SURVEY NOTES:**

- Project Control was established using a GPS OPUS Solution at CP-1. The coordinates provided at CP-1 are NMSP Central Zone Grid (NAD 83), with a ground elevation (NAVD 88). All other control points provided for in this survey are NMSP Central Zone Ground (NAD 83), with a ground elevation (NAVD 88). To determine grid coordinates on any point in this drawing, apply a scale factor of 0.99967464 with CP-1 as the point of origin. The contents of this drawing are at ground, tied to CP-1 grid coordinates as reported below.
- All distances are ground.
- Date of field survey: July 28, 2020

CP-1 (#4 REBAR AND CAP)  
y=1,550,004.699 US SURVEY FOOT (GRID)  
x=1,536,799.321 US SURVEY FOOT (GRID)  
z=5,037.87 (NAVD 88)  
Ground-to-grid: 0.99967464  
Mapping Angle: -00°12'01.36"  
NMSP CENTRAL ZONE  
NAD 83

**SURVEYOR'S CERTIFICATION**  
This is to certify that a topographic site survey on the above referenced property was performed by me or under my supervision and that the information contained herein is true and correct to the best of my belief and knowledge. This does not constitute a corner or boundary survey.

Thomas D. Johnston, PS 14269  
Date 8/14/2020

THOMAS D. JOHNSON  
NEW MEXICO  
14269  
REGISTERED LAND SURVEYOR

**WAYJOHN SURVEYING INC.**

330 Louisiana Blvd, N.E. Albuquerque, NM 87108  
Phone: (505) 255-2052 Fax: (505) 255-2887

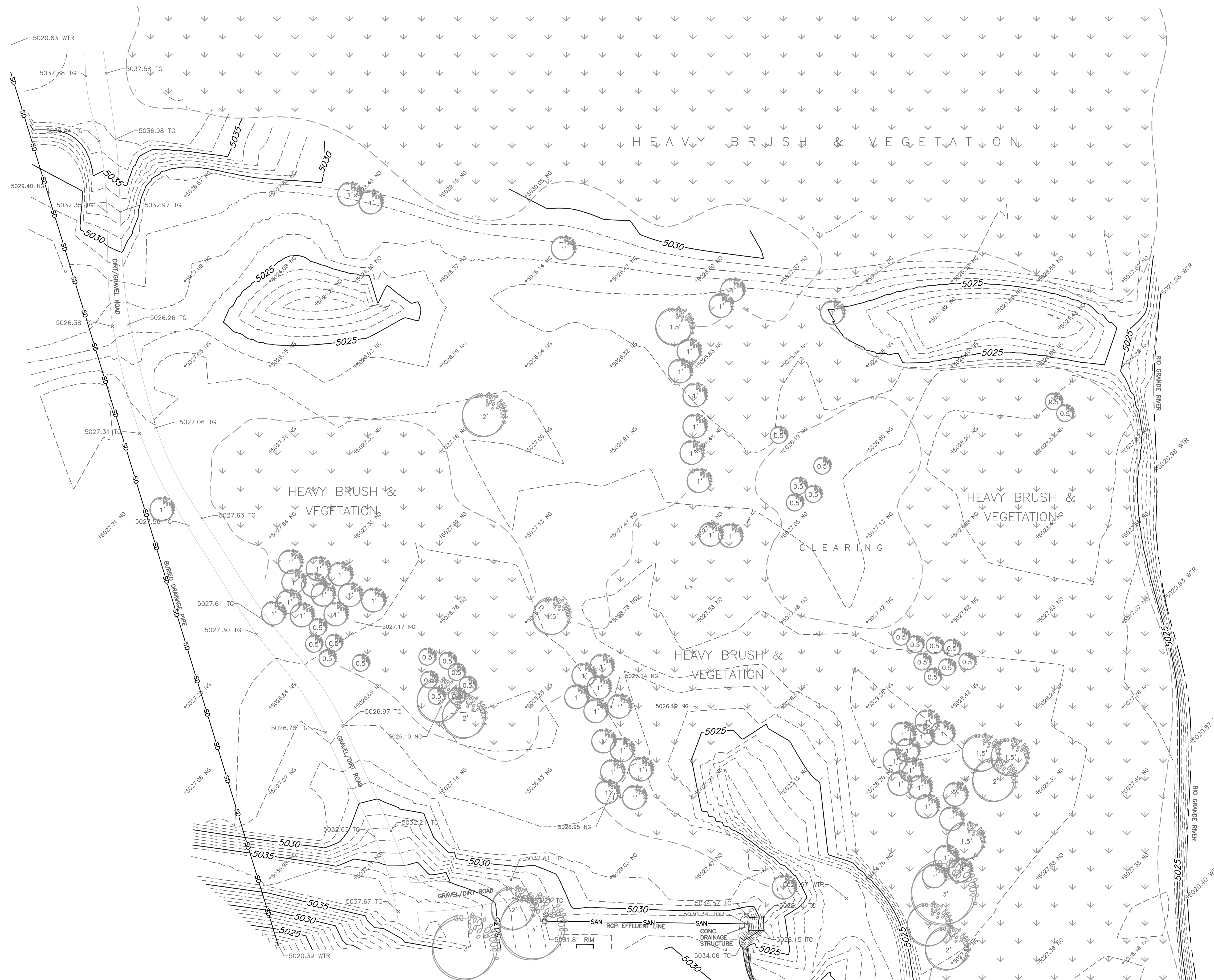
Date of Survey: JULY 28, 2020	Draftsman: T R J
Date of Last Revision: 8/27/20	Job No.: EL-7-01-2020

**SHEET 1 OF 3**

Notice of Extended Payment Provision  
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# TOPOGRAPHIC SURVEY



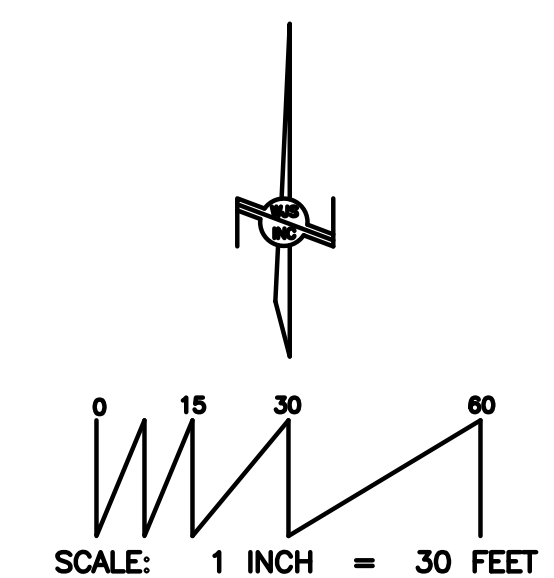
VICINITY MAP



(NOT TO SCALE)

LEGEND:

- M H MANHOLE (TYPE)  
 FL FLOW-LINE  
 NG NATURAL GROUND  
 RIM RIM OF MANHOLE  
 TC TOP OF CONCRETE  
 TG TOP OF GRAVEL  
 WTR WATER SURFACE ELEVATION  
 4+56.12  
 SPOT ELEVATION  
 ELEVATIONS ARE TO  
 ANNOTATED SPOTS  
 ———— SAN ————  
 SANITARY SEWER  
 ———— SD ————  
 STORM DRAIN  
 ———— EXISTING CONTOURS @ 1 FT. INTERVALS  
 5430 ———— INDEX CONTOURS @ 5 FT. INTERVALS  
 DECIDUOUS TREE  
 CALIPER AS NOTED



**330 Louisiana Blvd, N.E. Albuquerque, NM 87108**  
**Phone: (505) 255-2052 Fax: (505) 255-2887**

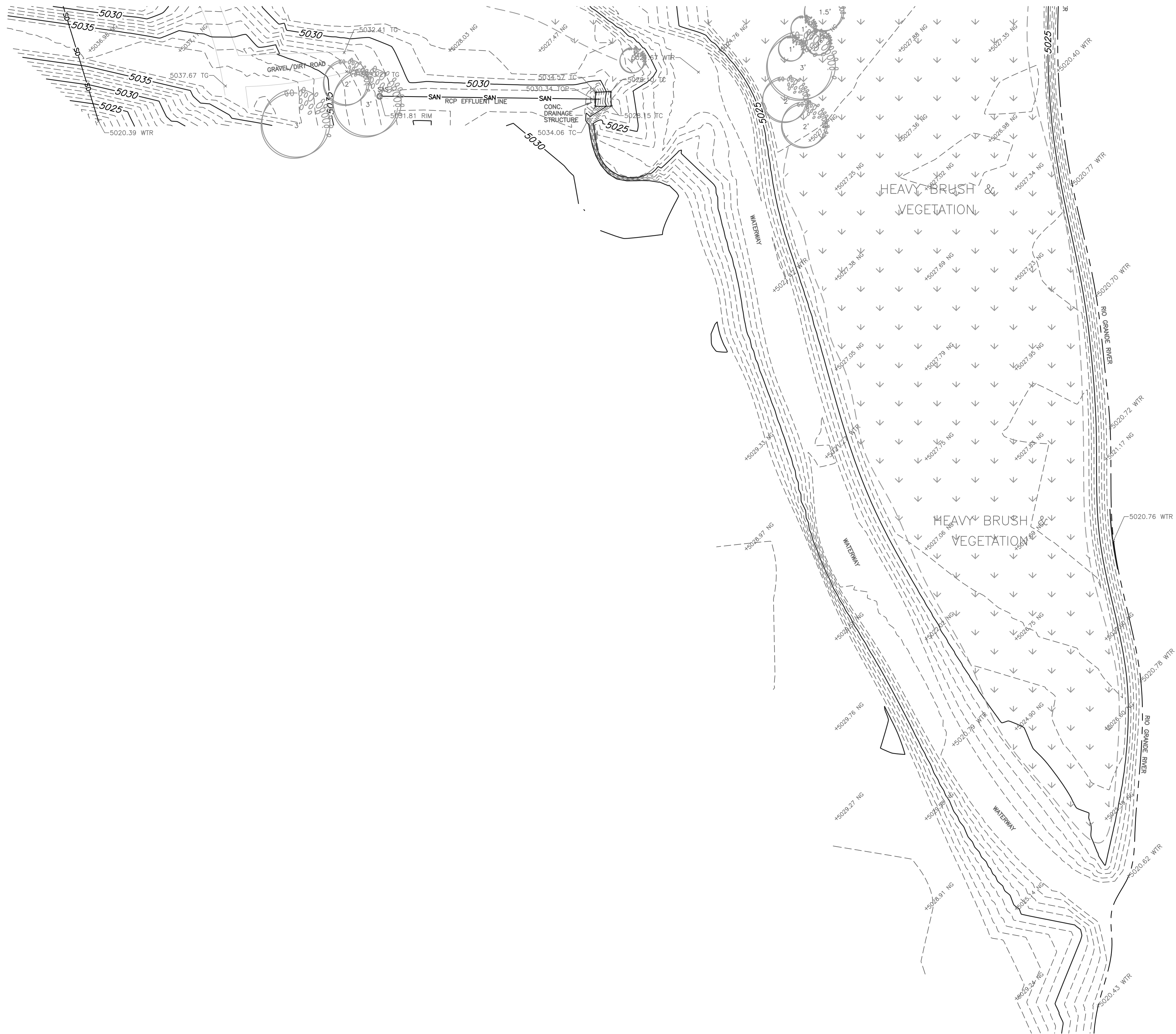
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***SHEET 2 OF 3***

Notice of Extended Payment Provision  
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# TOPOGRAPHIC SURVEY



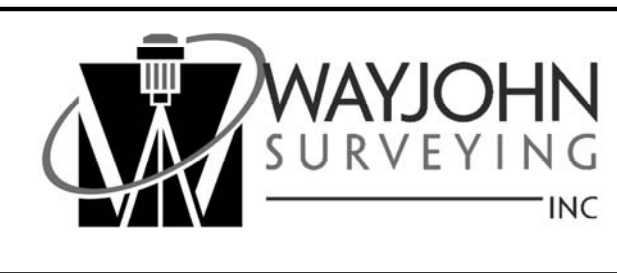
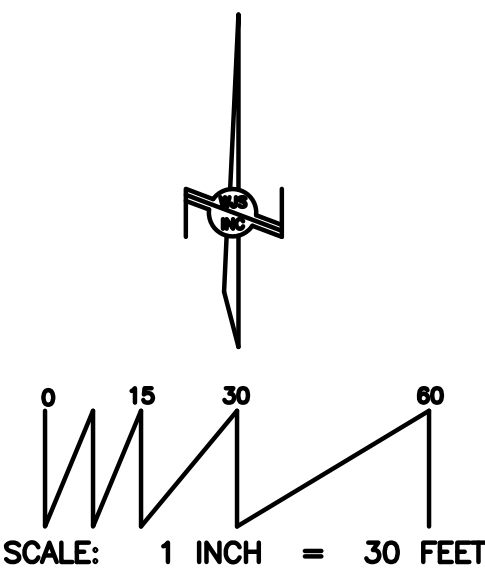
VICINITY MAP



(NOT TO SCALE)

LEGEND:

- MH MANHOLE (TYPE)
- FL FLOW-LINE
- NG NATURAL GROUND
- RIM RIM OF MANHOLE
- TC TOP OF CONCRETE
- TG TOP OF GRAVEL
- WTR WATER SURFACE ELEVATION
- SPOT ELEVATION ELEVATIONS ARE TO ANNOTATED SPOTS
- EXISTING CONTOURS @ 1 FT. INTERVALS
- INDEX CONTOURS @ 5 FT. INTERVALS
- SAN SANITARY SEWER
- SD STORM DRAIN
- DECIDUOUS TREE CALIPER AS NOTED



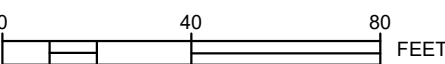
330 Louisiana Blvd, N.E. Albuquerque, NM 87108  
Phone: (505) 255-2052 Fax: (505) 255-2887

Date of Survey: JULY 28, 2020 Draftsman: T R J  
Date of Last Revision: 8/27/20 Job No.: EL-7-01-2020

**SHEET 3 OF 3**

Notice of Extended Payment Provision  
This contract allows the owner to make payment within 45 days after submission of an undisputed request for payment.



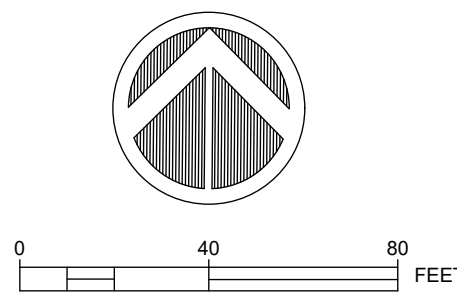


SHEET 6 OF 7

This contract allows the owner to make payment within 45 days after submission of an undisputed request for payment.



Monday, October 25, 2021 12:03:41 PM - KTOURNER  
C:\SSCA\CA\_PROJECT\_FILES\MONTANA\MO\_P0040-01\AUTOCAD\SOURCE DRAWINGS\SURFACES\MO\_P0040-01\_C-SURF.DWG



**SSCA FCA**

**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](http://www.sscafca.com)



**HARVEY JONES CHANNEL RIVER OUTFALL**

**SEWER EFFLUENT CHANNEL EXCAVATION**

REVISIONS & CHANGE NOTICES		
MARK	DESCRIPTION	DATE

PROJECT NO: MO\_P0040-01  
DESIGNED BY: DG  
DRAWN BY: KLF  
CHECKED BY: AE  
DATE: 10/25/2021

Notice of Extended Payment Provision

This contract allows the owner to make payment within 45 days after submission of an undisputed request for payment.



Notice of Extended Payment Provision  
This contract allows the owner to make payment within 45 days after submission of an undisputed request for payment

STRUCTURAL STEEL NOTES	
NOTE	DESCRIPTION
1.	ALL DETAILING, FABRICATION, AND ERECTION OF STRUCTURAL STEEL SHALL CONFORM TO THE REQUIREMENTS OF THE AISC SPECIFICATIONS FOR STRUCTURAL STEEL BUILDINGS, AND WITH ALL LOCAL LAWS AND ORDINANCES. WHERE CONFLICTING REQUIREMENTS OCCUR, THE MORE STRINGENT REQUIREMENT SHALL APPLY.
2.	ALL W SHAPES SHALL CONFORM TO THE REQUIREMENTS OF ASTM A992 GRADE 50. ALL C SHAPES SHALL CONFORM TO THE REQUIREMENTS OF ASTM A36.
3.	ALL ANGLES AND PLATES SHALL CONFORM TO THE REQUIREMENTS OF ASTM A36 UNLESS NOTED OTHERWISE.
4.	ALL HOLLOW STRUCTURAL STEEL (HSS) SHALL CONFORM TO THE REQUIREMENTS OF ASTM A500 GRADE B, F <sub>y</sub> =46 KSI OR ASTM 1085.
5.	ALL STEEL PIPE SHALL CONFORM TO ASTM A53 GRADE B
6.	ALL WELDS SHALL CONFORM TO THE AMERICAN WELDING SOCIETY'S D1.1 "STRUCTURAL WELDING CODE - STEEL"
7.	ALL HIGH STRENGTH BOLTS SHALL CONFORM TO ASTM A325, UNLESS NOTED OTHERWISE. BOLTS SHALL BE 3/4" DIA. AND HOLES SHALL BE 1/16" LARGER THAN BOLT SIZE. BOLTED CONNECTIONS ARE DESIGNED AS BEARING TYPE WITH THREADS IN SHEAR PLANE. WASHERS SHALL BE INSTALLED UNDER NUTS OF FASTENERS WHEN REQUIRED BY THE SPECIFICATION FOR STRUCTURAL JOINTS. ALL HIGH STRENGTH BOLTS SHALL BE TIGHTENED TO THE SNUG TIGHT CONDITION.
8.	UNLESS NOTED OTHERWISE, ALL SHOP CONNECTIONS SHALL BE MADE WITH WELDS OR HIGH STRENGTH BOLTS.
9.	UNLESS NOTED OTHERWISE, ALL FIELD CONNECTIONS SHALL BE MADE WITH HIGH STRENGTH BOLTS.
10.	NO OPENINGS MAY BE CUT IN STRUCTURAL MEMBERS UNLESS SHOWN ON THE DRAWINGS.
11.	GUSSET PLATES SHALL BE 3/8" MINIMUM THICKNESS.
12.	ALL EXPOSED STRUCTURAL STEEL ON THE EXTERIOR OF THE BUILDING SHALL BE HOT DIP GALVANIZED G-90 UNO.
13.	PRIOR TO DETAILING CONNECTIONS FOR STRUCTURAL STEEL, THE STEEL FABRICATOR SHALL SUBMIT FOR APPROVAL REPRESENTATIVE DETAILS AND CALCULATIONS FOR EACH TYPE OF STRUCTURAL STEEL CONNECTION TO BE UTILIZED. AFTER APPROVAL, THE CONNECTIONS MAY BE INCORPORATED INTO THE SHOP DRAWINGS, ALONG WITH A TABLE OF DESIGN CAPACITIES FOR THE RANGE OF CONNECTIONS TO BE USED.
14.	SPLICING OF STRUCTURAL STEEL MEMBERS WHERE NOT DETAILED ON THE CONTRACT DOCUMENTS IS PROHIBITED WITHOUT PRIOR APPROVAL OF THE STRUCTURAL ENGINEER OF RECORD. AS TO LOCATION, TYPE OF SPLICE, AND CONNECTION TO BE MADE.
15.	NO MISFABRICATED STRUCTURAL STEEL MAY BE ERECTED PRIOR TO REVIEW BY THE STRUCTURAL ENGINEER OF RECORD.
16.	PENETRATIONS SHALL NOT BE CUT IN STRUCTURAL STEEL MEMBERS UNLESS SO INDICATED IN THE DRAWINGS OR AS REVIEWED BY STRUCTURAL ENGINEER OF RECORD.

CONCRETE NOTES	
NOTE	DESCRIPTION
1.	ALL CONCRETE SHALL BE MADE WITH STONE AGGREGATE AND A MODIFIED TYPE II CEMENT AND SHALL DEVELOP 4,000 PSI COMPRESSIVE STRENGTH IN 28 DAYS. USE CLASS "F" FLY ASH AND A WATER/CEMENT RATIO OF 0.45. ADDITION OF ANY ADMIXTURES SHALL BE APPROVED BY THE STRUCTURAL ENGINEER. ALL CONCRETE IN CONTACT WITH SOILS OR EXPOSED TO DE-ICING SALTS SHALL BE MADE USING TYPE II CEMENT. USE NO CALCIUM CHLORIDE WITH TYPE II CEMENT.
2.	UNLESS NOTED OTHERWISE, ALL DETAILING, FABRICATION, AND PLACING OF REINFORCING STEEL SHALL CONFORM TO "DETAILS AND DETAILING OF CONCRETE REINFORCEMENT" (ACI 315) AND "MANUAL OF ENGINEERING AND PLACING DRAWINGS FOR REINFORCED CONCRETE STRUCTURES" (ACI 315R).
3.	UNLESS NOTED OTHERWISE, ALL CONCRETE SHALL HAVE NATURAL SAND FINE AGGREGATE AND NORMAL WEIGHT COARSE AGGREGATES CONFORMING TO ASTM C33, TYPE I PORTLAND CEMENT CONFORMING TO ASTM C150, AND DEVELOP A MINIMUM COMPRESSIVE STRENGTH OF 4000 PSI IN 28 DAYS.
4.	UNLESS NOTED OTHERWISE, ALL REINFORCING STEEL SHALL BE DEFORMED BARS CONFORMING TO ASTM A615 GRADE 60, INCLUDING SUPPLEMENTARY REQUIREMENTS.
5.	UNLESS NOTED OTHERWISE, ALL SPLICES OF REINFORCING STEEL SHALL BE CLASS B TENSION LAP SPLICES (12" MIN).
6.	SPLICE TOP REINFORCING STEEL AT MID-SPAN AND BOTTOM REINFORCING STEEL OVER SUPPORTS.
7.	WELDED WIRE FABRIC REINFORCING SHALL LAP TWO FULL SPACINGS OF THE CROSS WIRES AND BE SECURELY ATTACHED AT EACH END.
8.	UNLESS NOTED OTHERWISE, ALL REINFORCING STEEL HOOKS SHALL BE ACI STANDARD 90° HOOKS.
9.	ALL OPENINGS IN CONCRETE WHERE GREATEST DIMENSION EXCEEDS 1'-0" SHALL HAVE (2) #5 BARS ON EACH SIDE AND AT EACH CORNER. BARS SHALL EXTEND THE FULL EMBEDMENT LENGTH (2'-0" MIN.) BEYOND EDGE OF OPENING UNLESS OTHERWISE NOTED ON PLANS.
10.	WHERE MAIN STEEL REINFORCEMENT IN SUPPORTED SLABS RUNS PARALLEL TO BEAMS, PROVIDE #4 BARS X 5'-0" AT 12" O.C. IN ADDITION TO REQUIRED TEMPERATURE AND SHRINKAGE REINFORCEMENT. ADDITIONAL REINFORCEMENT SHALL BE PLACED IN THE TOP FACE OF THE SLAB AND CENTERED OVER THE BEAMS.
11.	UNLESS NOTED OTHERWISE, ALL CONSTRUCTION JOINTS IN SLABS AND/OR BEAMS SHALL BE MADE AT MID-SPAN.
12.	UNLESS NOTED OTHERWISE, PROVIDE A 3/4"x3/4" CHAMFER AT ALL EXPOSED EXTERNAL CORNERS.
13.	ALL SLOTS, SLEEVES, AND OTHER EMBEDDED ITEMS SHALL BE SET PRIOR TO CONCRETE PLACEMENT. SEE ARCHITECTURAL, MECHANICAL, ELECTRICAL, AND VENDOR DRAWINGS FOR SIZES AND LOCATIONS.
14.	MIXING, TRANSPORTING, AND PLACING OF CONCRETE SHALL CONFORM TO ACI 301.
15.	MINIMUM CONCRETE COVER PROTECTION FOR REINFORCEMENT BARS SHALL BE AS FOLLOWS: (SEE ACI 318 SECTION 7.7 FOR CONDITIONS NOT NOTED) <div>CONCRETE EXPOSED TO WEATHER #5 BARS AND SMALLER ----- 1 1/2 INCHES ALL OTHER BARS ----- 2 INCHES CONCRETE CAST AGAINST EARTH GRADE BEAMS:----- TOP ----- 1 1/2 INCHES BOARD FORMED SIDES ----- 2 INCHES EARTH FORMED SIDES ----- 3 INCHES BOTTOM ----- 3 INCHES SLABS ON GRADE----- SINGLE LAYER OR TOP LAYER ----- 2 INCHES PILASTERS &amp; PLINTHS ----- 2 INCHES STRUCTURAL SLAB ----- 3/4 INCH</div> PROVIDE STANDARD BAR CHAIRS AND SPACERS AS REQUIRED TO MAINTAIN CONCRETE PROTECTION SPECIFIED.
16.	SIZE AND PLACEMENT OF ALL CONCRETE REINFORCEMENT AND EMBEDS SHALL BE INSPECTED AND APPROVED PRIOR TO PLACING CONCRETE.
17.	GROUT FOR BASE PLATES SHALL BE NON-SHRINKABLE, NON-METALLIC, CONFORMING TO ASTM C827, AND SHALL HAVE A SPECIFIED COMPRESSIVE STRENGTH AT 28 DAYS OF 5000 PSI. PREGROUTING OF BASE PLATES WILL NOT BE PERMITTED.
18.	REINFORCEMENT BARS SHALL NOT BE TACK WELDED, WELDED, HEATED OR CUT UNLESS INDICATED ON THE CONTRACT DOCUMENTS OR REVIEWED BY THE STRUCTURAL ENGINEER.
19.	HORIZONTAL JOINTS WILL NOT BE PERMITTED IN CONCRETE CONSTRUCTION EXCEPT AS SHOWN ON THE CONTRACT DOCUMENTS. VERTICAL JOINTS MAY OCCUR AT CENTER OF SPANS AT LOCATIONS REVIEWED BY HUITT-ZOLLARS, INC.

DESIGN CRITERIA	
NOTE	DESCRIPTION
1.	THE STRUCTURE IS DESIGNED IN ACCORDANCE WITH THE 2015 INTERNATIONAL BUILDING CODE. THE DESIGN GRAVITY LOADS ARE AS FOLLOWS: <div>LIVE LOADS: VAULT ROOF SLAB/BOTTOM SLAB ----- 100 PSF ROOF (CONTROL ROOM) ----- 20 PSF</div>
2.	THE STRUCTURE HAS BEEN DESIGNED TO WITHSTAND THE WIND PRESSURES BASED ON THE PROVISIONS OF THE INTERNATIONAL BUILDING CODE WHICH REFER TO THE AMERICAN SOCIETY OF CIVIL ENGINEERS, MINIMUM DESIGN LOADS FOR BUILDINGS AND OTHER STRUCTURES, ASCE 7-10, AND THE FOLLOWING CRITERIA: <div>ULTIMATE DESIGN WIND SPEED, Vult (3-SECOND GUST) ----- 105 MPH RISK CATEGORY ----- I EXPOSURE CATEGORY ----- C INTERNAL PRESSURE COEFFICIENT (GCP1) ----- +0.18/-0.18</div>
3.	SEISMIC DESIGN PARAMETERS - ASCE 7-10 SEISMIC SPECTRAL ACCELERATIONS S <sub>a</sub> ----- 0.468g S <sub>i</sub> ----- 0.141g RISK CATEGORY ----- I SITE CLASS ----- D DESIGN SPECTRAL ACCELERATIONS S <sub>0.5</sub> ----- 0.445g S <sub>0.1</sub> ----- 0.211g SEISMIC DESIGN CATEGORY ----- D

GENERAL NOTES	
NOTE	DESCRIPTION
1.	THE STRUCTURE SHOULD NOT BE CONSIDERED TO BE STABLE DURING CONSTRUCTION UNTIL ALL ELEMENTS ARE IN PLACE AND CONNECTED. THE CONTRACTOR IS RESPONSIBLE FOR ALL TEMPORARY CONSTRUCTION BRACING REQUIRED.
2.	THE STRUCTURE HAS BEEN DESIGNED FOR THE IN-SERVICE LOADS ONLY. THE METHODS, PROCEDURES, AND SEQUENCES OF CONSTRUCTION ARE THE RESPONSIBILITY OF THE CONTRACTOR. THE CONTRACTOR SHALL TAKE ALL NECESSARY PRECAUTIONS TO MAINTAIN AND INSURE THE INTEGRITY OF THE STRUCTURE AT ALL STAGES OF CONSTRUCTION.
3.	THE REPRODUCTIVE USE OF THE STRUCTURAL CONTRACT DOCUMENTS OR ELECTRONIC FILES AS STRUCTURAL SHOP DRAWING DOCUMENTS BY THE CONTRACTOR OR SUB- CONTRACTORS IS AT THEIR OWN RISK. HUITT-ZOLLARS, INC. ASSUMES NO LIABILITY AS THE RESULT OF THE REPRODUCTIVE USE OF THE STRUCTURAL CONTRACT DOCUMENTS FOR SHOP DRAWINGS.
4.	SCALES NOTED ON THE DRAWINGS ARE FOR GENERAL REFERENCE ONLY. NO DIMENSIONAL INFORMATION SHALL BE OBTAINED BY DIRECT SCALING OF THE DRAWINGS.
5.	THE GENERAL CONTRACTOR IS RESPONSIBLE FOR COORDINATION OF ALL RESULTING REVISIONS TO THE STRUCTURAL SYSTEM OR OTHER TRADES AS A RESULT OF ACCEPTANCE OF CONTRACTOR PROPOSED ALTERNATIVES OR SUBSTITUTIONS.
6.	PRINCIPAL OPENINGS IN THE STRUCTURE ARE INDICATED ON THE CONTRACT DOCUMENTS. REFER TO THE ARCHITECTURAL, MECHANICAL, ELECTRICAL, AND PLUMBING DRAWINGS FOR SLEEVES, CURBS, INSERTS, ETC. NOT HEREIN INDICATED. OPENINGS IN SLABS WITH A MAXIMUM SIDE DIMENSION OR DIAMETER OF 12 INCHES OR LESS SHALL NOT REQUIRE ADDITIONAL FRAMING OR REINFORCEMENT, UNLESS NOTED OTHERWISE. THE LOCATION OF SLEEVES OR OPENINGS IN STRUCTURAL MEMBERS SHALL BE SUBMITTED TO HUITT-ZOLLARS, INC. FOR REVIEW.
7.	IN THE EVENT THAT CERTAIN FEATURES OF THE CONSTRUCTION ARE NOT FULLY SHOWN ON THE DRAWINGS, OR CALLED FOR IN THE STRUCTURAL NOTES OR IN THE SPECIFICATIONS, THEN SUCH CONSTRUCTION SHALL BE IN THE SAME CHARACTER FOR SIMILAR CONDITIONS THAT ARE SHOWN OR CALLED FOR.

SUBGRADE AND FOUNDATION PREP NOTES	
NOTE	DESCRIPTION
1.	THE FOUNDATION SYSTEM HAS BEEN DESIGNED BASED ON A REPORT PREPARED BY TERRACON, REPORT NO. 66195025, DATED MARCH 26, 2019. THE CONTRACTOR SHALL PERFORM EXCAVATIONS, FOUNDATION CONSTRUCTION, AND PREPARATION OF THE SUBGRADE UNDER THE SLABS IN ACCORDANCE WITH THE RECOMMENDATIONS CONTAINED IN THE GEOTECHNICAL REPORT AND THE PROJECT SPECIFICATIONS
2.	THE CONTRACTOR SHALL PROVIDE A LICENSED GEOTECHNICAL ENGINEER TO VERIFY THAT THE BUILDING SUBGRADE PREPARATION IS SUITABLE AND THAT APPROPRIATE BEARING MATERIAL IS ACHIEVED PRIOR TO SLAB AND FOUNDATION POURS.
3.	THE FOUNDATION FOR THE STRUCTURE IS A MAT FOUNDATION AND HAS BEEN DESIGNED FOR THE FOLLOWING ALLOWABLE SOIL BEARING PRESSURES AT A MINIMUM BEARING DEPTH OF 18" PER LOCAL JURISDICTION REQUIREMENTS. <div>TOTAL LOAD ----- 2,500 PSF</div>
4.	EXCAVATIONS FOR SPREAD FOOTINGS, COMBINED FOOTINGS, CONTINUOUS FOOTINGS AND/OR MAT FOUNDATIONS SHALL BE CLEANED AND HAND TAMPED TO A UNIFORM SURFACE. FOOTING EXCAVATIONS SHALL HAVE THE SIDES AND BOTTOMS TEMPORARILY LINED WITH 6 MIL VISQUEEN IF PLACEMENT OF CONCRETE DOES NOT OCCUR WITHIN 24 HOURS OF THE EXCAVATION OF THE FOOTING.
5.	GENERAL CONTRACTOR SHALL NOTIFY THE STRUCTURAL ENGINEER 24 HOURS PRIOR TO PLACEMENT OF CONCRETE IN THE FOOTINGS.
6.	PROVIDE 15 MIL VAPOR BARRIER BELOW SLABS.
7.	CONCRETE SHOULD BE TREMIED TO THE BOTTOM OF THE EXCAVATION TO CONTROL THE MAXIMUM FREE FALL OF THE PLASTIC CONCRETE TO LESS THAN 10 FEET.



**Southern Sandoval  
County  
Arroyo Flood Control  
Authority**

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505-892-7241 (Fax)  
[www.sscafca.com](http://www.sscafca.com)



HARVEY JONES CHANNEL  
RIVER OUTFALL

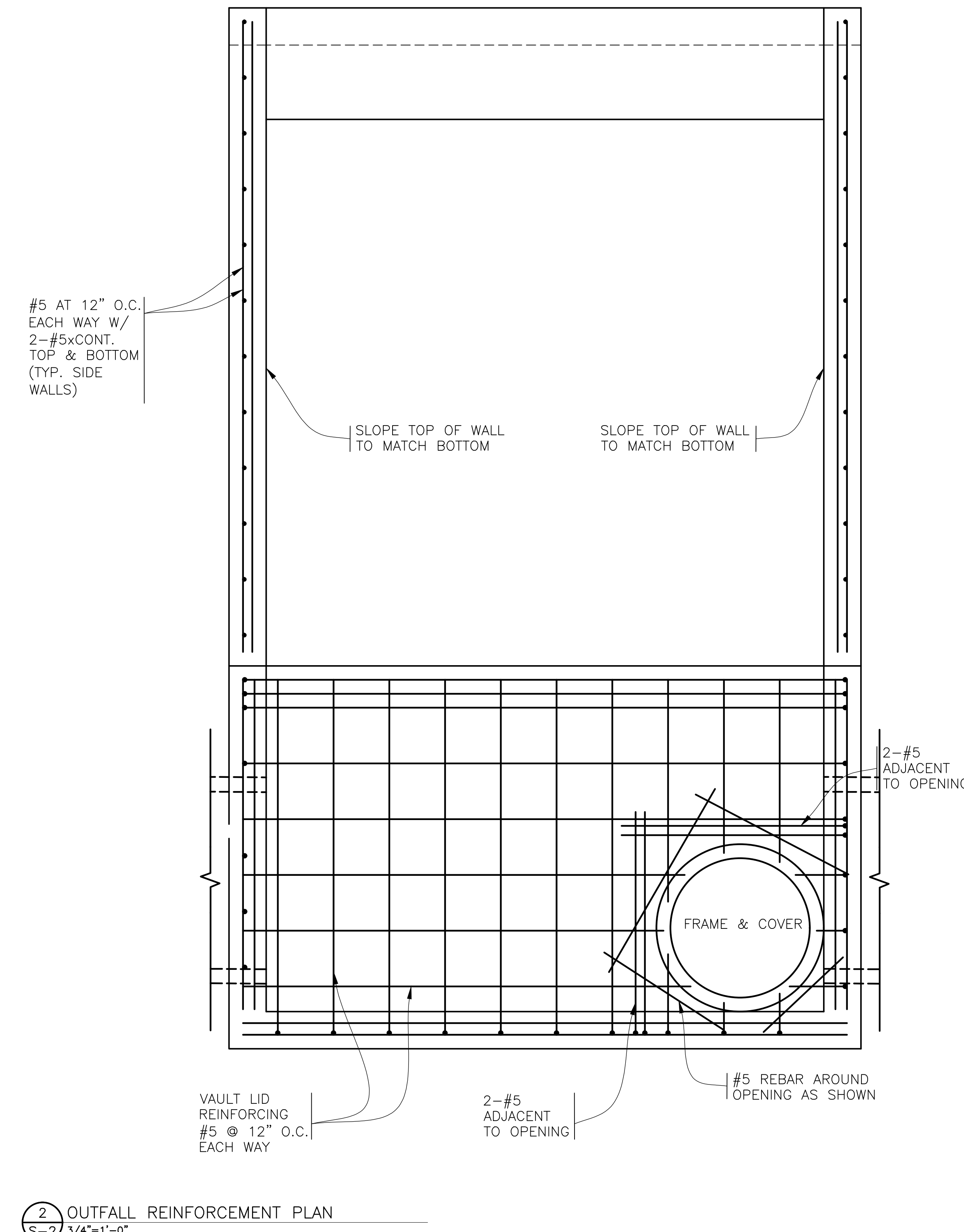
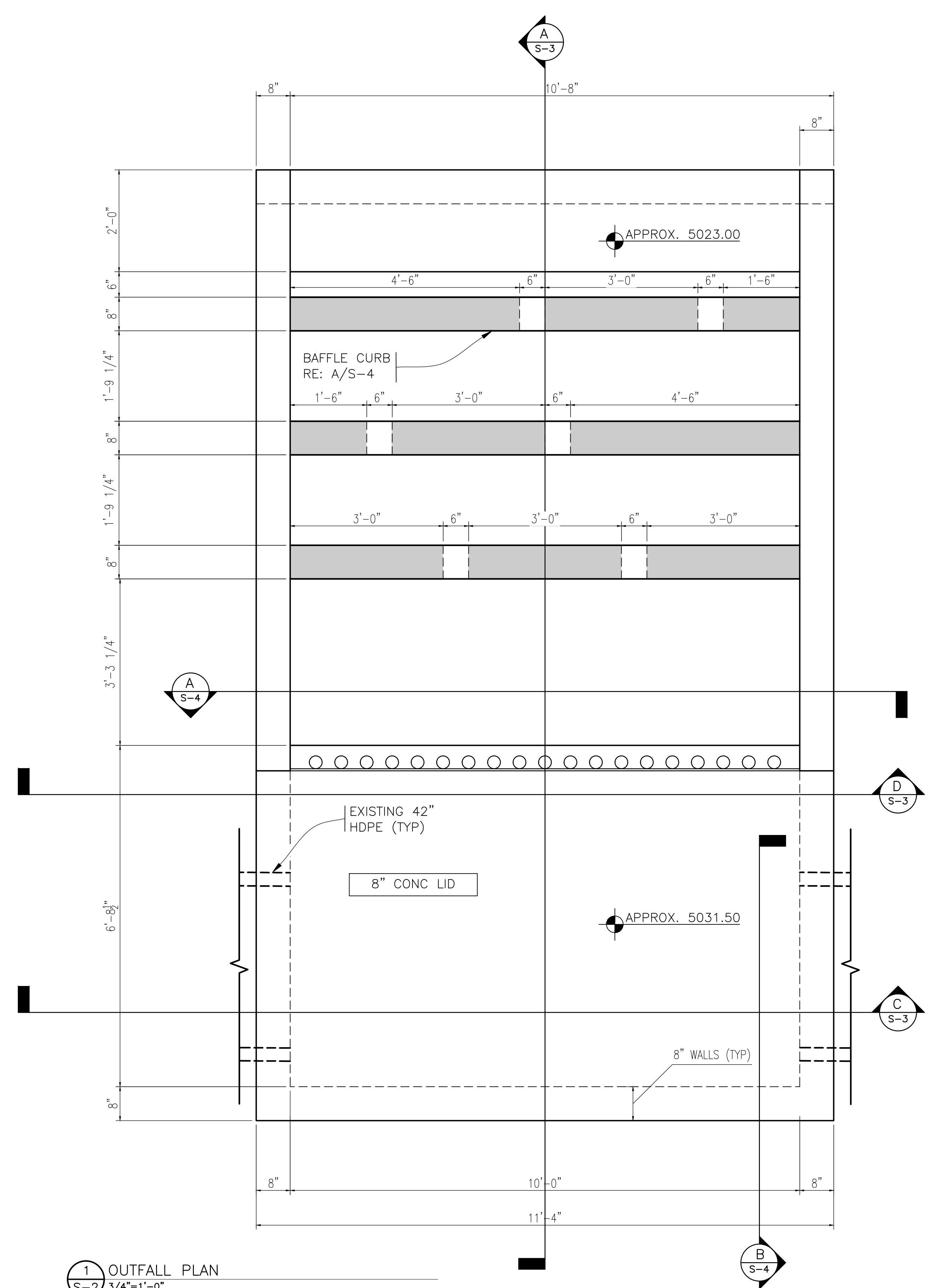
GENERAL NOTES

REVISIONS & CHANGE NOTICES		
MARK	DESCRIPTION	DATE

PROJECT NO: MO\_P0040-01  
DESIGNED BY: WLA  
DRAWN BY: DLQ  
CHECKED BY: WLA  
DATE: 8/27/2021

**S-1**  
SHEET 1 OF 4





**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.sscatca.com

HARVEY JONES CHANNEL  
RIVER OUTFALL

PLAN AND SECTIONS

REVISIONS & CHANGE NOTICES		
MARK	DESCRIPTION	DATE

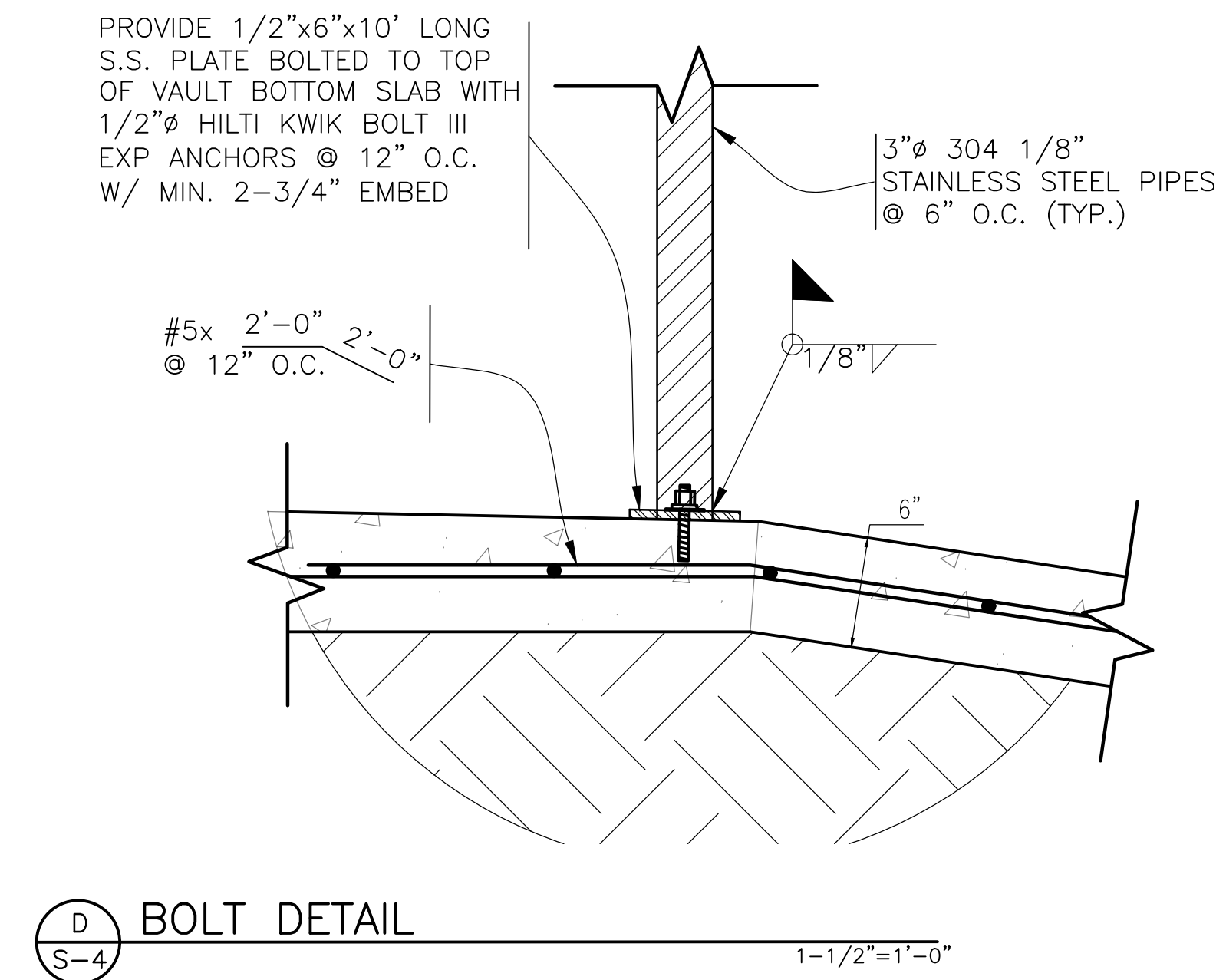
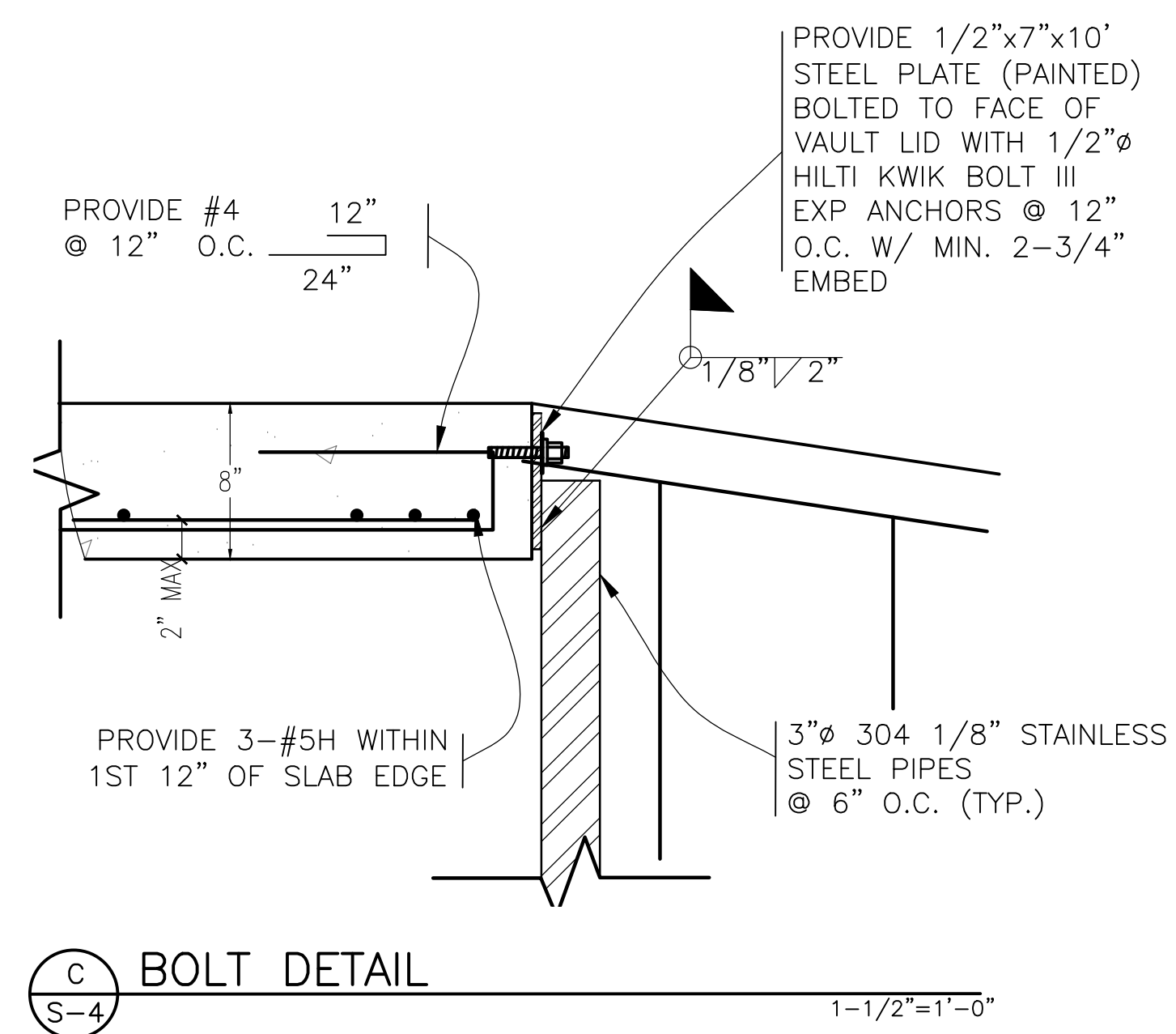
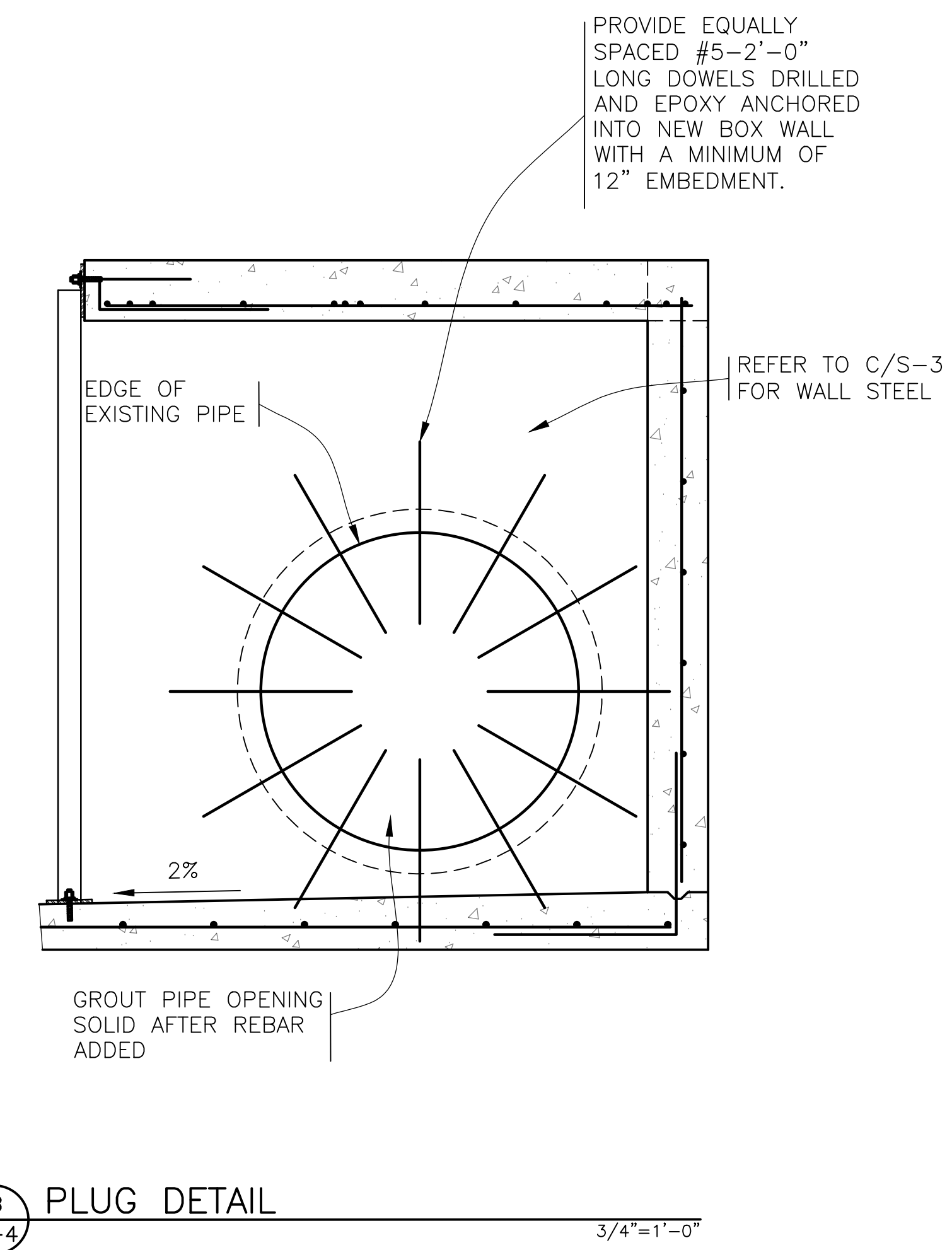
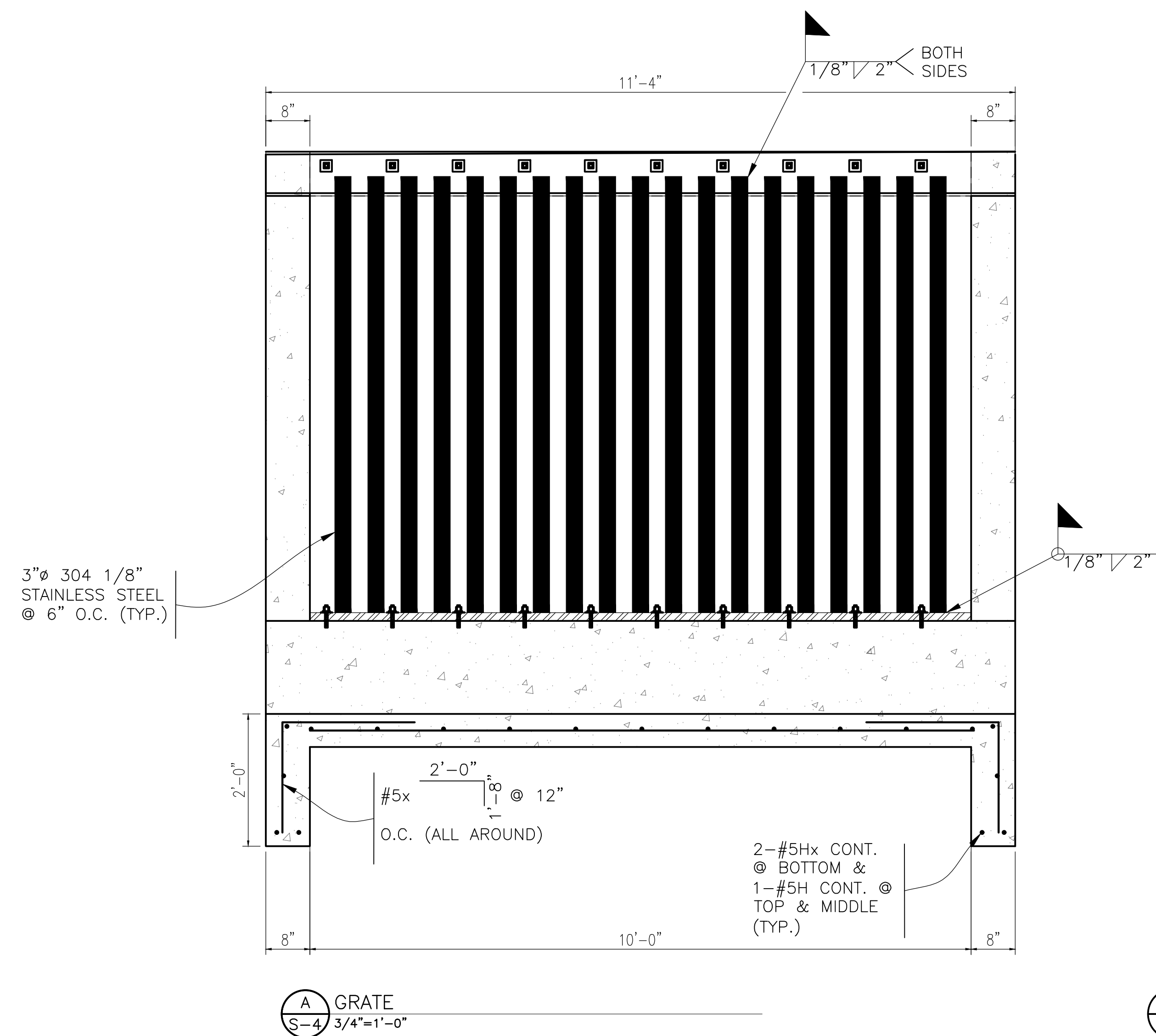
PROJECT NO: MO\_P0040-01  
DESIGNED BY: WLA  
DRAWN BY: DLQ  
CHECKED BY: WLA  
DATE: 8/27/2021

**S-2**

SHEET 2 OF 4







**Southern Sandoval  
County  
Arroyo Flood Control  
Authority**

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# HARVEY JONES CHANNEL RIVER OUTFALL

## DETAILS

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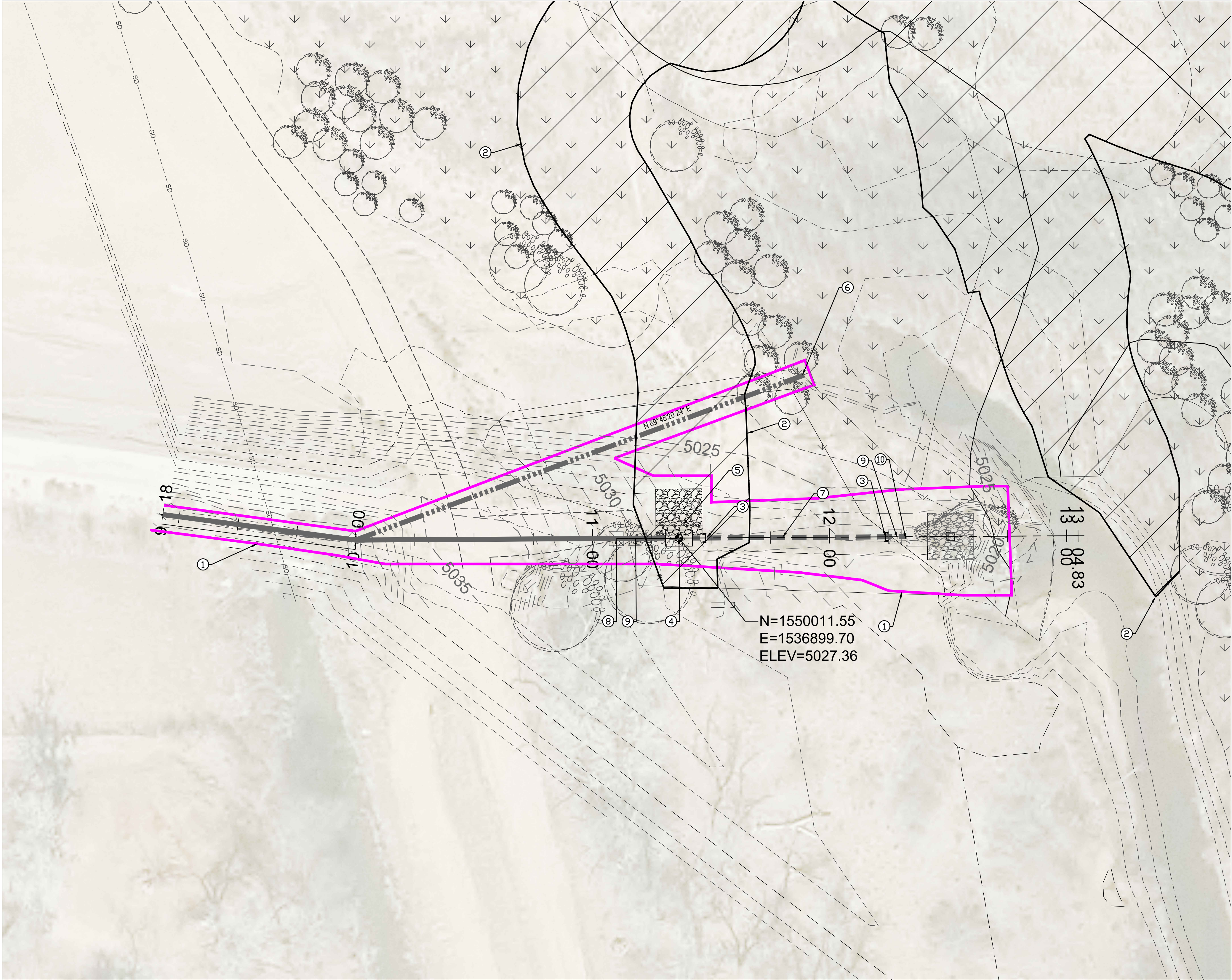
PROJECT NO: MO\_P0040-01  
DESIGNED BY: WLA  
DRAWN BY: DLQ  
CHECKED BY: WLA  
DATE: 8/27/2021

S-4

SHEET 4 OF 4

Notice of Extended Payment Provision  
This contract allows the owner to make payment within 45 days after submission of an undisputed request for payment



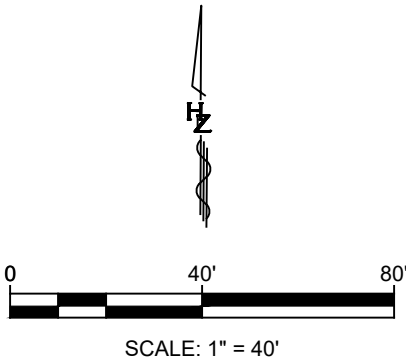


KEYED NOTES

1. EFFLUENT OUTFALL IMPROVEMENT PLAN AREA
2. ADDITIONAL DRAINAGE IMPROVEMENTS. SEE SSCAFCA CONSTRUCTION DRAWINGS FOR COORDINATION
3. EXISTING 42" HDPE; CUT AND CAP IN PLACE
4. NEW JUNCTION BOX SEE SHEETS S1-S4
5. INSTALL 12" THICK RIPRAP WIRE ENCLOSED D<sub>50</sub>=6" WITH FILTER FABRIC PER NMDOT STD DWG 602-01.
6. 201.6' LF OF 20" DIA TEMPORARY BY-PASS LINE TO BE INSTALLED PER SPEC 30 00 00.
7. EXISTING 42" HDPE
8. EXISTING JUNCTION BOX
9. EXISTING THRUST BLOCK
10. EXISTING OUTFALL STRUCTURE TO BE REMOVED AND DISPOSED. EXISTING STAINLESS STEEL GRATING TO BE SALVAGED AND CREDITED BACK TO SSCAFCA/CITY OF RIO RANCHO.

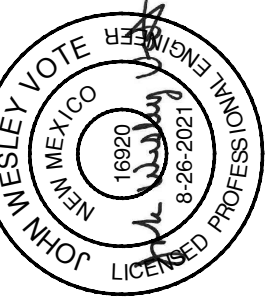
LEGEND

- SSCAFCFA IMPROVEMENT AREA
- PROPOSED SSCAFCA TREE LOCATION



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HARVY JONES CHANNEL  
RIVER OUTFALL

PLAN

REVISIONS &  
CHANGE NOTICES

MARK	DESCRIPTION	DATE

PROJECT NO: MO\_P0040\_01

DESIGNED BY: ww

DRAWN BY: js

CHECKED BY: ww

DATE: 8/17/2021

U-1

SHEET 1 OF 2

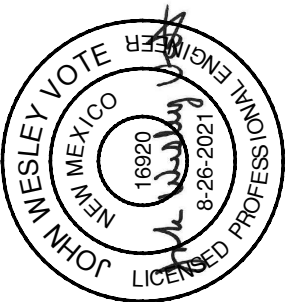
Notice of Extended Payment Provision  
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HARVY JONES CHANNEL  
RIVER OUTFALL  
DETAILS

REVISIONS &  
CHANGE NOTICES

MARK	DESCRIPTION	DATE

PROJECT NO: MO\_P0040\_01  
DESIGNED BY: ww  
DRAWN BY: js  
CHECKED BY: ww  
DATE: 8/19/2021

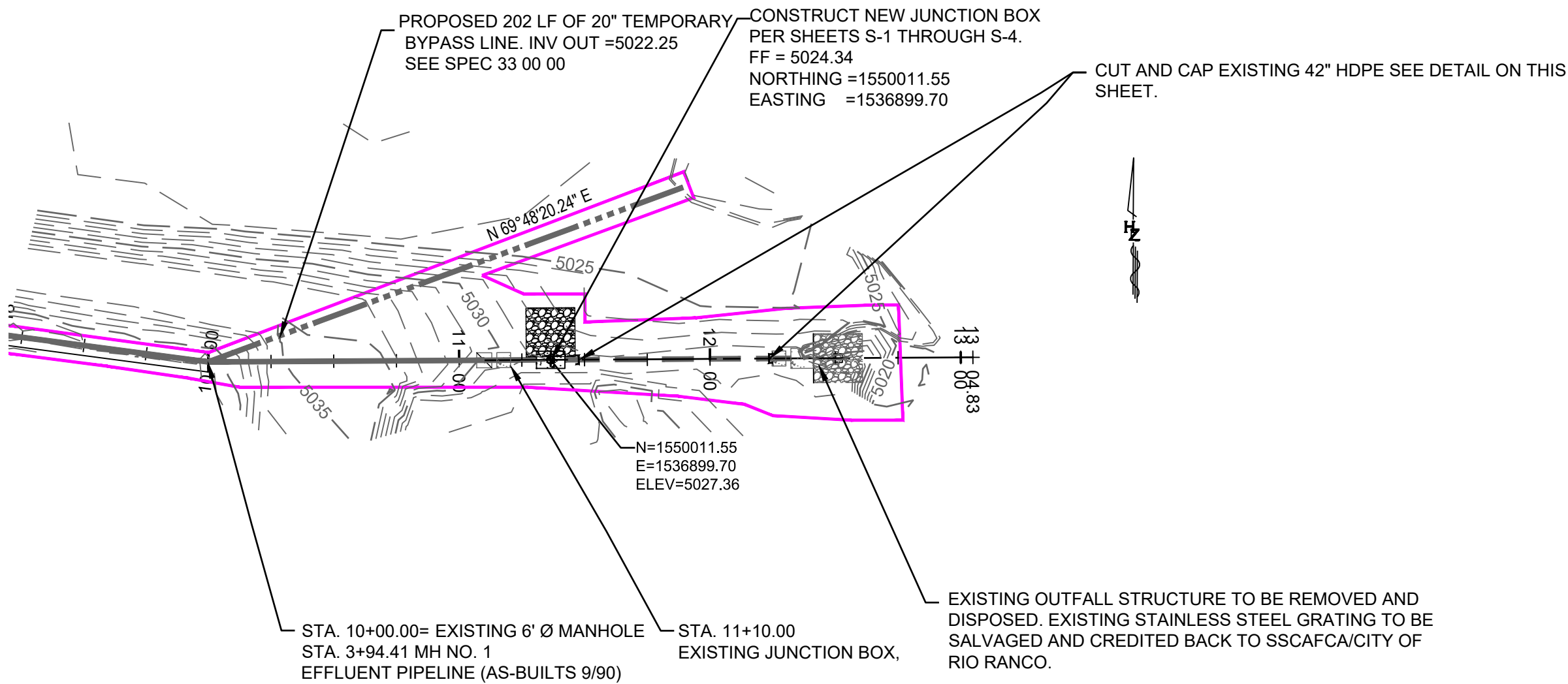
**U-2**  
SHEET 2 OF 2

CONSTRUCTON NOTES

- CONTRACTOR SHALL MAINTAIN ACCESS AT ALL TIMES AND REPAIR ANY DAMAGE TO ANY EXISTING STRUCTURES, INCLUDING ACCESS ROADS, GATES, HOME ENTRANCES. ETC.
- CONTRACTOR SHALL VERIFY ALL ELEVATIONS PRIOR TO CONSTRUCTION
- CONTRACTOR TO SUBMIT PROPOSED BY-PASS PUMPING PLAN PER SPEC 33 00 00 PRIOR TO CONSTRUCTION FOR APPROVAL.
- INSTALL 12" THICK RIPRAP WIRE ENCLOSED D<sub>36</sub>=6" WITH FILTER FABRIC PER NMDOT STD DWG 602-01.

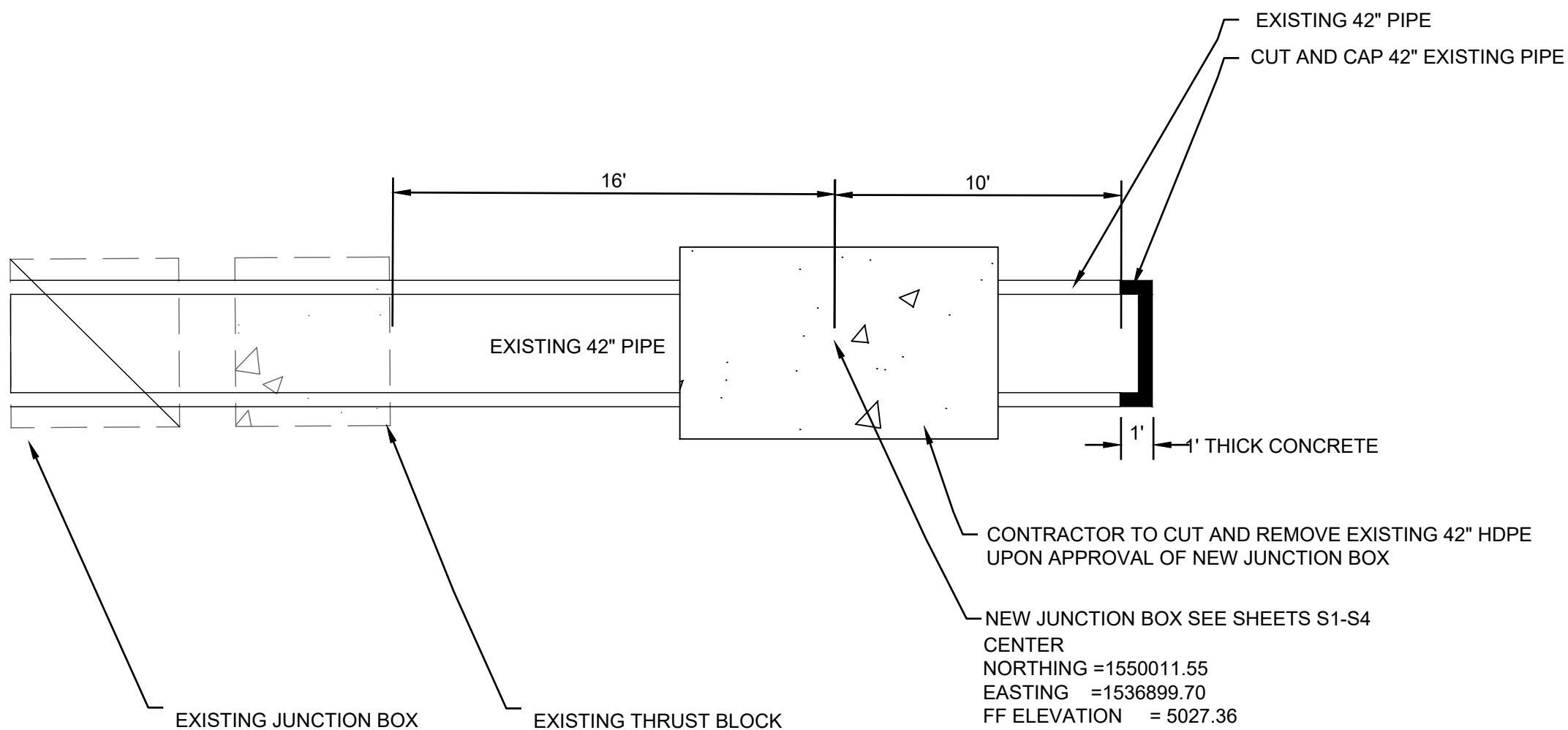
EFFLUENT PIPELINE PLAN VIEW

SCALE 1"=50'



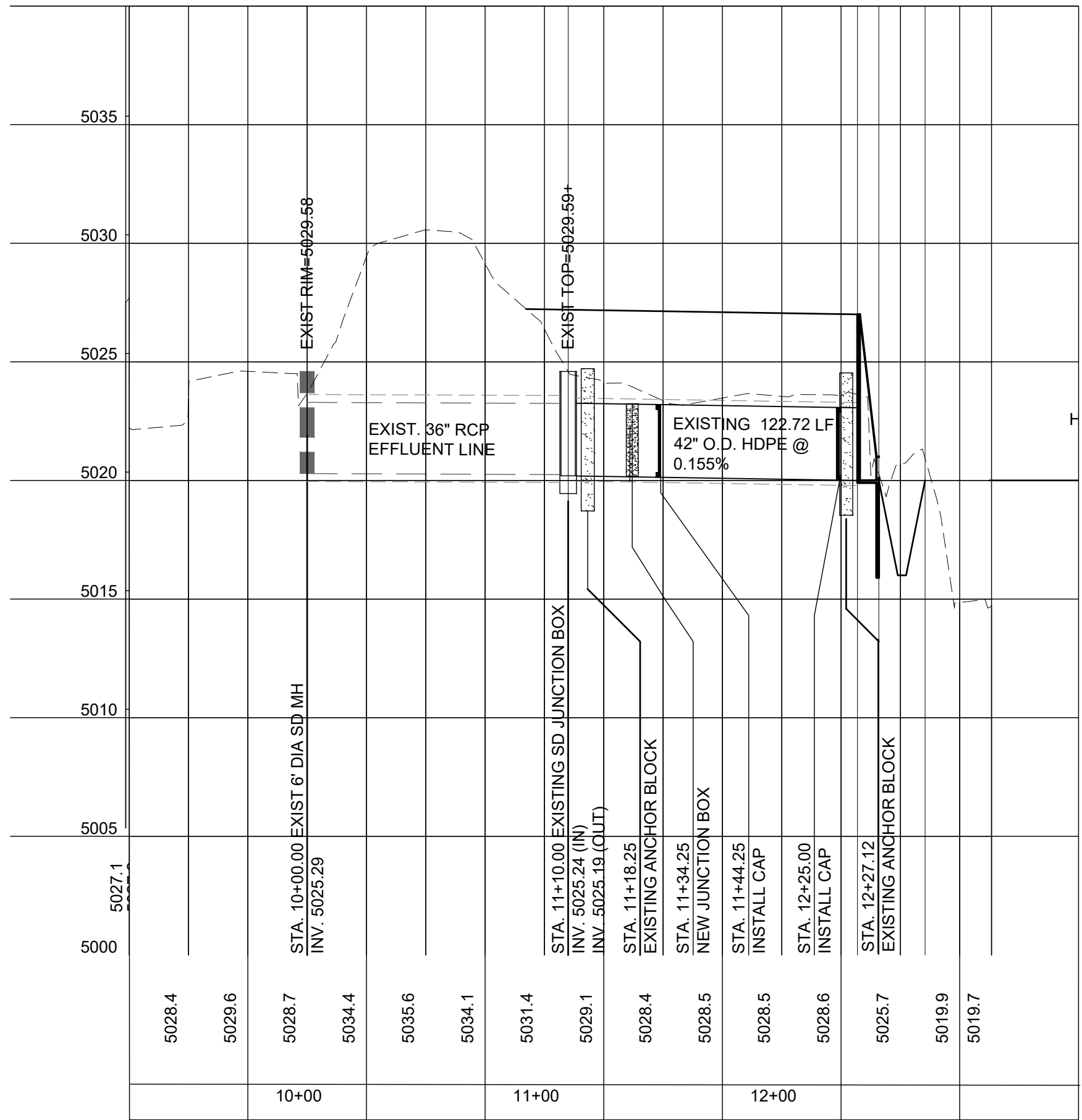
EFFLUENT PIPELINE STA 11+07 TO 11+50

SCALE 1"=5'



EXISTING EFFLUENT PIPELINE AND NEW JUNCTION BOX

SCALE  
VERTICAL 1"=5'  
HORIZONTAL 1"=50'



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