

RIPARIA PONDS CONSTRUCTION PLANS

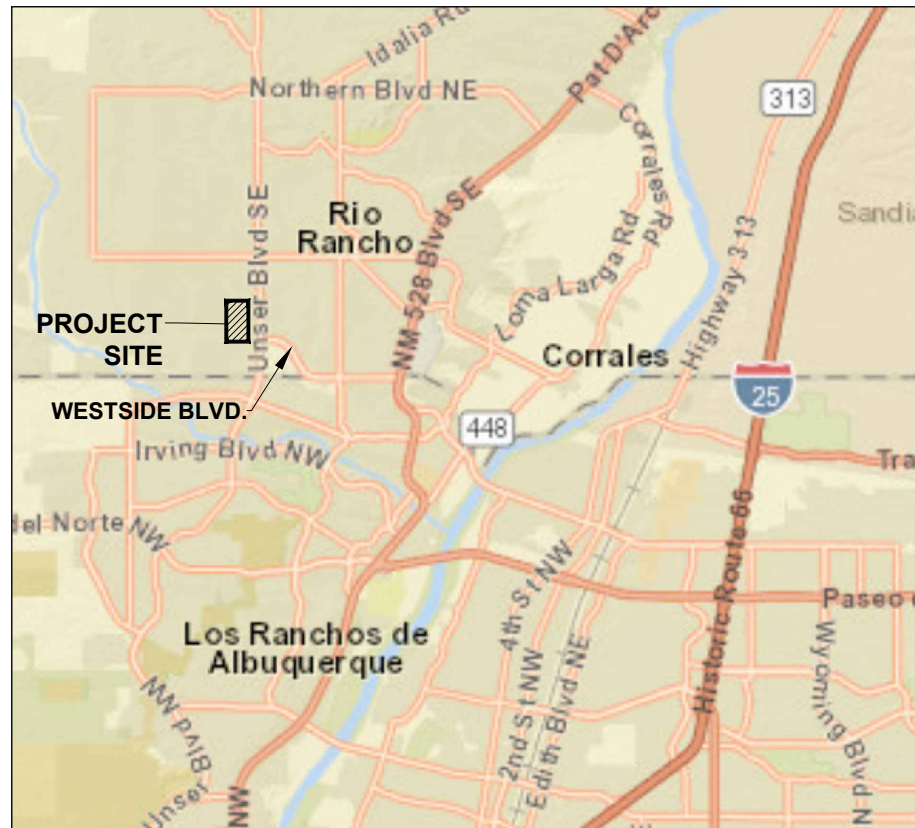
SSCAFCA PROJECT NUMBER: BL_P0001-03

SOUTHERN SANDOVAL COUNTY ARROYO FLOOD CONTROL AUTHORITY RIO RANCHO, NEW MEXICO

FEBRUARY 2023

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VICINITY MAP

SSCAFCA: _____ DATE: _____
 EXECUTIVE ENGINEER
 CITY OF RIO RANCHO: _____ DATE: 04/06/2023
 DEVELOPMENT SERVICES DEPARTMENT

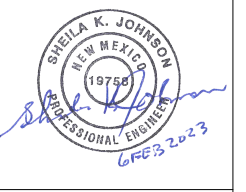
Pond Name	Design Storm	Inflow	Outflow	Inflow	Outflow	Design Pond	Peak Stored	Pond Depth	Peak Water	Peak Water	Pond Invert	Emergency	Top of Pond	Freeboard to
		Volume	Volume	Discharge	Discharge	Storage Volume	Volume from Grading Plan		Surface Elevation	Depth		Spillway Elevation	Elevation	Top of Pond Embankment
		AC-FT	AC-FT	CFS	CFS	AC-FT	AC-FT	FT.	FT.	FT.	FT.	FT.	FT.	FT.
POND 1	100 YR-24 HR	80.93	80.60	941.02	536.29	16.30	12.46	11	5303.23	9.23	5294	5305	5306	1
POND 1	500-YR-24 HR	106.68	106.35	1278.05	704.29	16.30	17.50	11	5305.5	11.5	5294	5305	5306	
POND 2	100 YR-24 HR	50.5	50.5	395.59	294.15	11.54	8.68	11	5296.99	8.99	5288	5299	5300	1
POND 2	500-YR-24 HR	64.09	64.09	514.29	328.65	11.54	11.95	11	5299.27	11.27	5288	5299	5300	
POND 3	100 YR-24 HR	34.65	34.65	207.15	168.42	6.64	4.76	11	5292.84	8.84	5284	5295	5296	1
POND 3	500-YR-24 HR	43.5	43.5	226.69	220	6.64	6.03	11	5294.33	10.33	5284	5295	5296	



NO.	DESCRIPTION	DATE	BY
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PROJECT DESCRIPTION: SSSCAFCA RIPARIA PONDS
 SHEET TITLE: COVER SHEET



PROJECT NO: BL_P0001-03
 DESIGNED BY: WHP
 DRAWN BY: WHP
 CHECKED BY: WHP
 DATE: 2-6-23
 DPI CHK:
 SHEET NO. G - 1

FINAL PLAN SIZE - 22x34

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 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.
- 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.
- 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 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 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.
- 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.
- 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 AT 505-892-7246 A MINIMUM OF TWO (2) WORKING DAYS PRIOR TO COMMENCEMENT OF WORK.
- THE CONTRACTOR SHALL CONFINE HIS/HER 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 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.
- 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.
- THE CONTRACTOR SHALL ENSURE THAT ALL CONSTRUCTION ACTIVITIES, PERMITTING, AND SUBMITTALS ARE IN ACCORDANCE WITH THE SSCAFCA AND/OR JURISDICTIONAL AUTHORITY ORDINANCES.
- NO WORK SHALL BE PERFORMED IN A FEMA FLOODPLAIN WITHOUT WRITTEN AUTHORIZATION FROM THE LOCAL FLOODPLAIN MANAGER.
- CONTRACTOR IS RESPONSIBLE FOR PROTECTION OF HIS/HER 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 3,000 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 NPDES/SWPPP BID ITEM.
- 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 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.
- 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
- 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 DEPT.

STEVE GALLEGOS
DEPUTY DIRECTOR OF UTILITIES
3200 CIVIC CENTER CIRCLE NE
RIO RANCHO, NEW MEXICO 87124
SUITE 250
(505) 896-8715
SGALLEGOS@RRNM.GOV

PNM-ELECTRIC

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

PNM-FIBER

THY FUKAZAWA
ENGINEERING REPRESENTATIVE
4201 EDITH BLVD, NEW MS-ES10
ALBUQUERQUE, NEW MEXICO 87107
(505) 241-4580

CENTURY LINK

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

CENTURY LINK NATIONAL

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

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@CENTURYLINK.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 MANAGER
RUBEN SOSA, SUPERVISOR
7120 WYOMING BLVD NE #20
ALBUQUERQUE, NEW MEXICO 87109
(505) 697-3188

ABBREVIATIONS

@	AT
AP	ANALYSIS POINT
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
CL	CENTERLINE
CLF	CHAIN LINK FENCE
CMP	CORRUGATED METAL PIPE
CO	CLEAN OUT
CONC	CONCRETE
CORR	CITY OF RIO RANCHO
CY	CUBIC YARDS
Δ	DELTA
DI	DROP INLET
DIA	DIAMETER
DS	DRAINAGE STRUCTURE
DUE	DRAINAGE UTILITY EASEMENT
EA	EACH
EC	END CURVE
ECR	END CURB RETURN
ELEV	ELEVATION
EOA	END OF ALIGNMENT
EOP	END OF PROJECT
EP	EDGE OF PAVEMENT
EST	EASEMENT
EST	ESTIMATE
EVC	END VERTICAL CURVE
EW	EACH WAY
EXIST	EXISTING
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
LF	LINEAR FEET
LP	LIGHT POLE
LT	LEFT
MH	MANHOLE
MD	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
RCP	REINFORCED CONCRETE PIPE
REF	REFERENCE
RP	RADIUS POINT
RT	RIGHT
RW, 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
WW	WATER VALVE



NO.	DESCRIPTION	DATE	BY
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PROJECT DESCRIPTION	SSCAFCA RIPARIA PONDS
SHEET TITLE	GENERAL NOTES



PROJECT NO: BL_P0001-03
DESIGNED BY: WHP
DRAWN BY: WHP
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DPI CHK:
SHEET NO.
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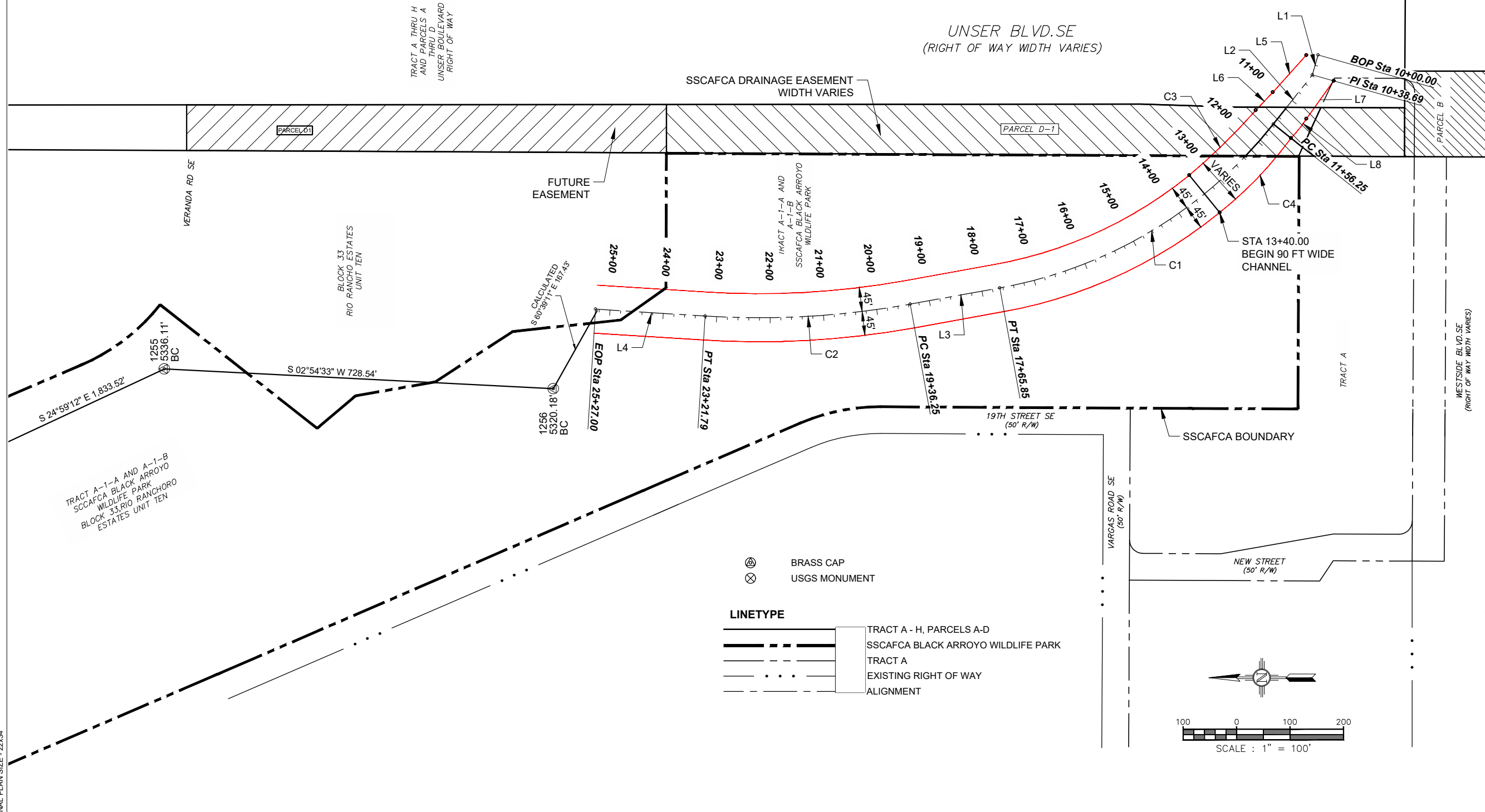
FINAL PLAN SIZE - 22x34

Control Point Table				
Point #	Raw Description	Elevation	Northing	Easting
1251	BRC	5423.817	1542919.1870	1504817.9210
1252	BRC	5401.193	1541931.4800	1504896.3830
1253	BRC	5383.788	1541631.5300	1505745.1160
1254	BRC	5374.118	1541169.4910	1505651.9630
1255	BRC	5336.110	1539969.6820	1506519.6110
1256	BRC	5320.180	1539242.0560	1506482.6710

*SSCAFCA 256=1256 3/4" BRASS CAP- PROJECT BENCHMARK

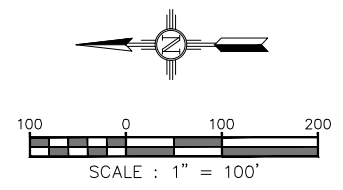
CURVE DATA			
CURVE	LENGTH	DELTA	RADIUS
C1	609.60	41° 20' 2.4"	845.0
C2	385.54	131° 53' 34.8"	1590.0
C3	165.56	7° 39' 0"	1240.0
C4	180.59	14° 40' 37.62"	725.560

LINE DATA			
LINE	DIRECTION	LENGTH	STARTING STA
L1	N74° 13' 34.73"W	38.69	10+00.0 CL
L2	N51° 36' 04.47"W	117.57	11+58.25 CL
L3	N10° 16' 01.94"W	170.40	17+65.85 CL
L4	N03° 37' 32.81"E	205.20	23+21.79 CL
L5	N48° 1' 12.0"W	93.49	10+06.10, 21.02'R
L6	N46° 25' 48.0"W	46.439	11+10.00, 41.36'R
L7	N54° 17' 31.2"W	87.549	10+38.44, 41.36'L
L8	N51° 34' 48.0"W	46.25	11+10.00, 42.19'L



- ⊗ BRASS CAP
- ⊗ USGS MONUMENT

LINETYPE	
	TRACT A - H, PARCELS A-D
	SSCAFCA BLACK ARROYO WILDLIFE PARK
	TRACT A
	EXISTING RIGHT OF WAY
	ALIGNMENT



NO.	DESCRIPTION	DATE	BY
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PROJECT DESCRIPTION
SSCAFCA RIPARIA PONDS

SHEET TITLE
SURVEY CONTROL PLAN



PROJECT NO: BL_P0001-03

DESIGNED BY: WHP

DRAWN BY: WHP

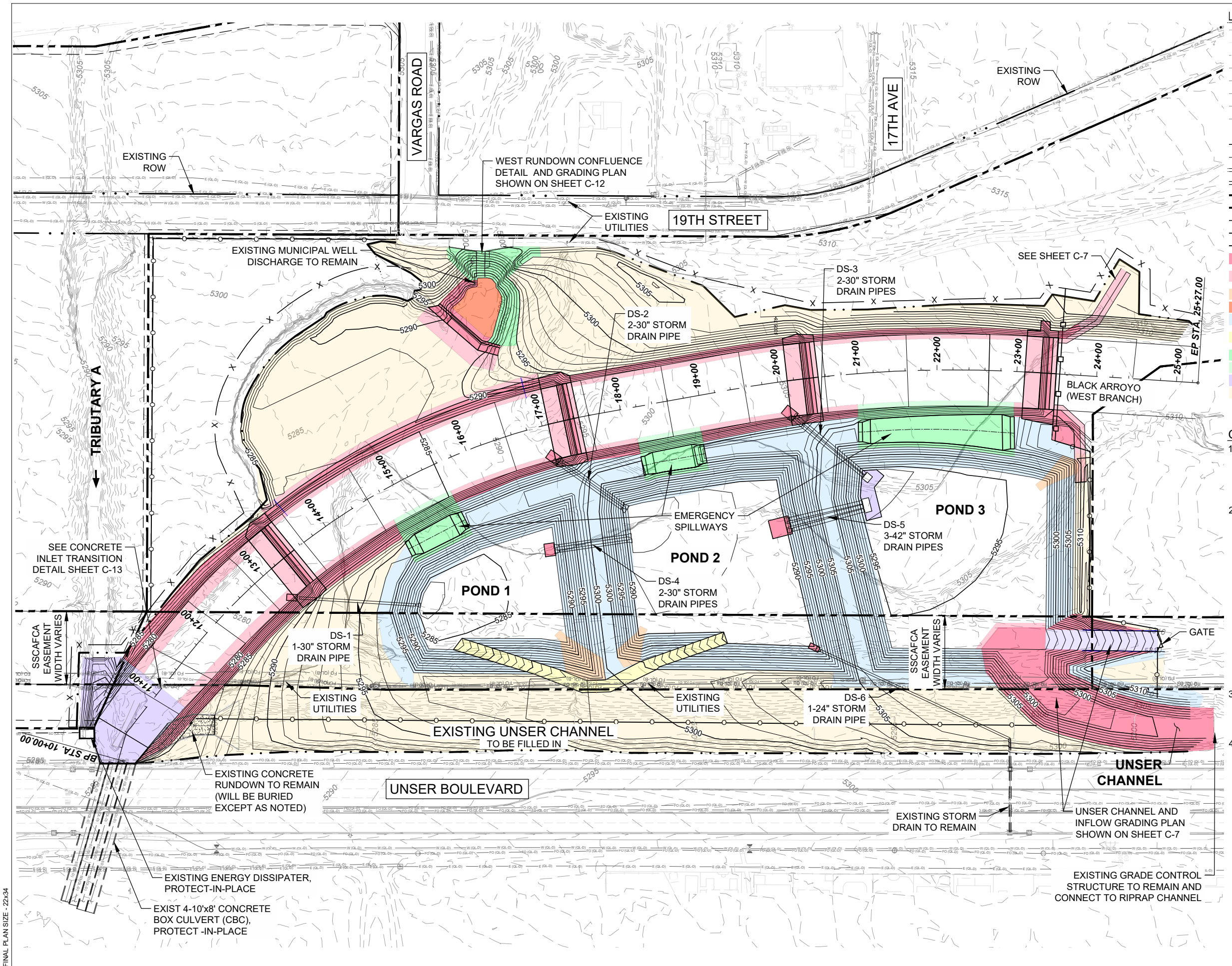
CHECKED BY: WHP

DATE: 2-6-23

DPI CHK:

SHEET NO.
G - 3

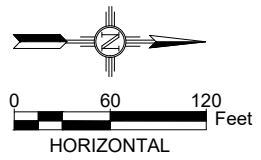
FINAL PLAN SIZE - 22x34



LEGEND

- EXIST. MAJOR CONTOUR
- EXIST. MINOR CONTOUR
- CATV (QL-D)- EXIST. CATV LINE
- E (QL-D)- EXIST. ELEC. LINE
- FO (QL-D)- EXIST. FIBER OPTIC LINE
- G (QL-D)- EXIST. GAS LINE
- W (QL-D)- EXIST. WATERLINE
- SS (QL-D)- EXIST. SANITARY SEWER
- EXIST. DROP INLET
- 5280- PROP. MAJOR CONTOUR
- PROP. MINOR CONTOUR
- == EXIST. STORM DRAIN
- == PROP. STORM DRAIN
- PROPERTY LINES
- · · - LIMIT OF GRADING
- X - CONSTRUCTION FENCE
- 5 STRAND FENCE
- POST AND CABLE FENCE
- CLASS A RIPRAP
- SUBSURFACE CLASS A RIPRAP
- CLASS B RIPRAP
- CLASS H RIPRAP
- GRAVEL MULCH
- BASE COURSE ACCESS ROAD
- SHOTCRETE
- SUBSURFACE SHOTCRETE
- REINFORCED CONCRETE
- SEEDING

- GENERAL NOTES**
1. PRIOR TO ANY CONSTRUCTION OR WORK ON SITE, CONTRACTOR MUST INSTALL CONSTRUCTION FENCE APPROXIMATELY 10-FT BEYOND GRADING LIMITS.
 2. A GEOTECHNICAL REPORT, DATED JUNE 2, 2022, WAS PREPARED FOR THIS PROJECT. ALL EARTHWORK, FILL PLACEMENT, COMPACTION AND ALL OTHER ELEMENTS OF THE GEOTECHNICAL REPORT MUST BE STRICTLY ADHERED TO IN THE CONSTRUCTION OF THIS PROJECT AND THE POND EMBANKMENTS. THE GEOTECHNICAL REPORT IS INCLUDED AT THE END OF VOLUME 2 OF THE BID AND CONTRACT DOCUMENTS.
 3. DETAILED CHANNEL AND POND GRADING AND CONSTRUCTION NOTES ARE SHOWN ON SHEETS C-5 THROUGH C-7.
 4. ALL FINAL GRADES, WITH THE EXCEPTION OF AREAS WITH IMPROVEMENTS, SHALL BE DISKED OR RIPPED TO A DEPTH OF 12" TO FACILITATE PLANT GROWTH.



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REVISIONS (OR CHANGE NOTICES)

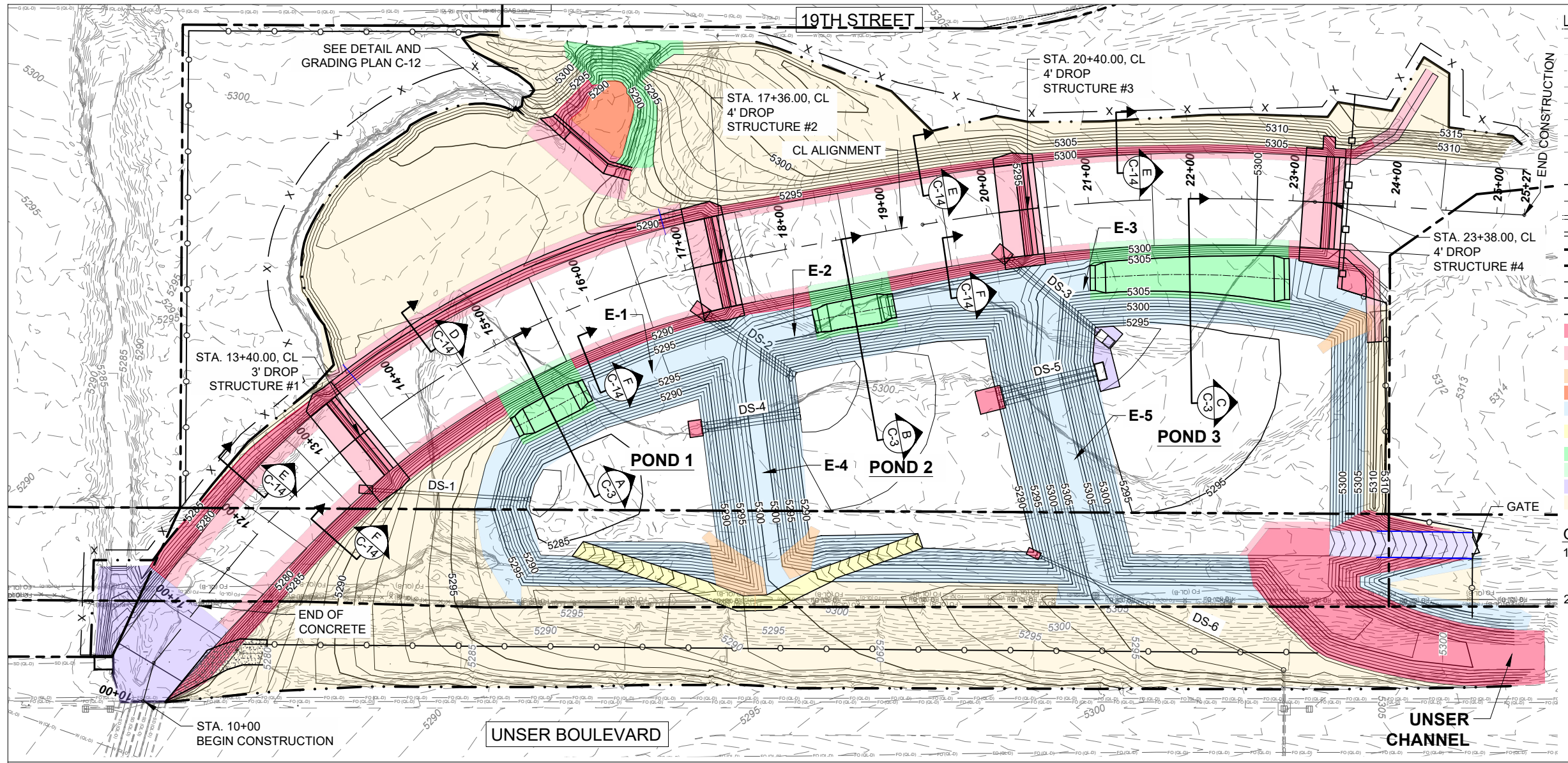


PROJECT DESCRIPTION	SSCAFCA RIPARIA PONDS
SHEET TITLE	OVERALL LAYOUT



PROJECT NO:	BL_P0001-03
DESIGNED BY:	WHP
DRAWN BY:	WHP
CHECKED BY:	WHP
DATE:	2-6-23
DPI CHK:	
SHEET NO.	C - 1

FINAL PLAN SIZE - 22x34



LEGEND

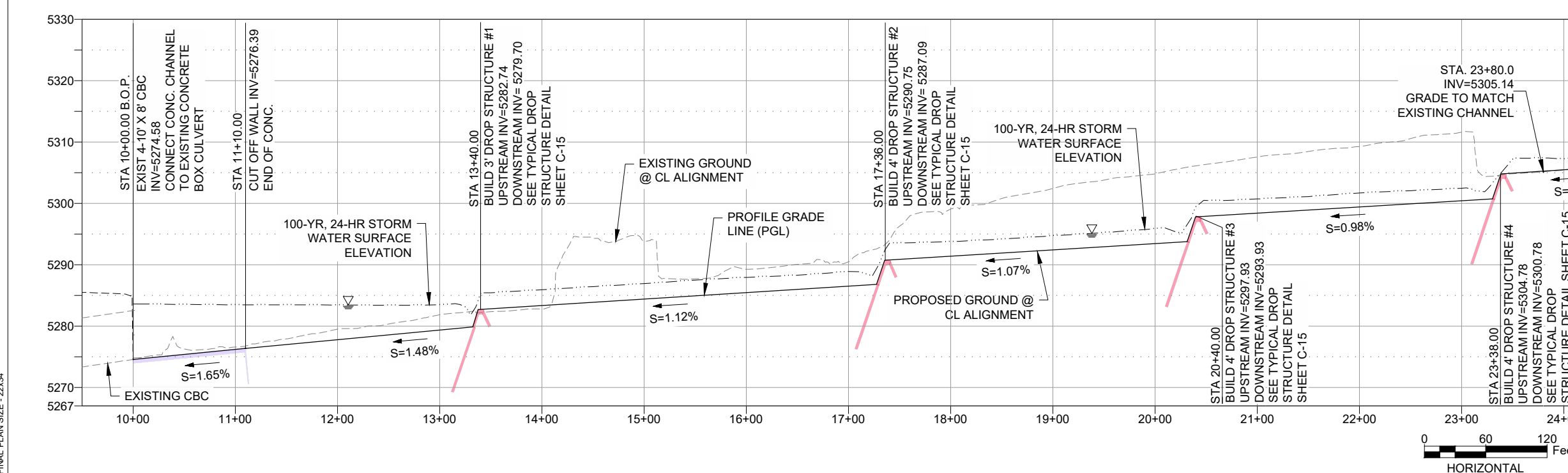
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- - - - - EXIST. MAJOR CONTOUR
- CATV (QL-D)- EXIST. CATV LINE
- E (QL-D)- EXIST. ELEC. LINE
- FO (QL-D)- EXIST. FIBER OPTIC LINE
- G (QL-D)- EXIST. GAS LINE
- W (QL-D)- EXIST. WATERLINE
- SS (QL-D)- EXIST. SANITARY SEWER
- EXIST. DROP INLET
- 5280- PROP. MAJOR CONTOUR
- - - - - PROP. MINOR CONTOUR
- == EXIST. STORM DRAIN
- == PROP. STORM DRAIN
- PROPERTY LINES
- · - · - LIMIT OF GRADING
- X - CONSTRUCTION FENCE
- 5 STRAND FENCE
- POST AND CABLE FENCE
- CLASS A RIPRAP
- SUBSURFACE CLASS A RIPRAP
- CLASS B RIPRAP
- CLASS H RIPRAP
- GRAVEL MULCH
- BASE COURSE ACCESS ROAD
- SHOTCRETE
- SUBSURFACE SHOTCRETE
- REINFORCED CONCRETE
- SEEDING

- GENERAL NOTES**
- SEE DRAINAGE STRUCTURE (DS-1 TO DS-6) PROFILES ON SHEETS C-9 THROUGH C-11.
 - EMBANKMENT- KEYWAY DETAILS E-1 TO E-5 ARE SHOWN ON SHEET C-4.



NO.	DESCRIPTION	DATE	BY
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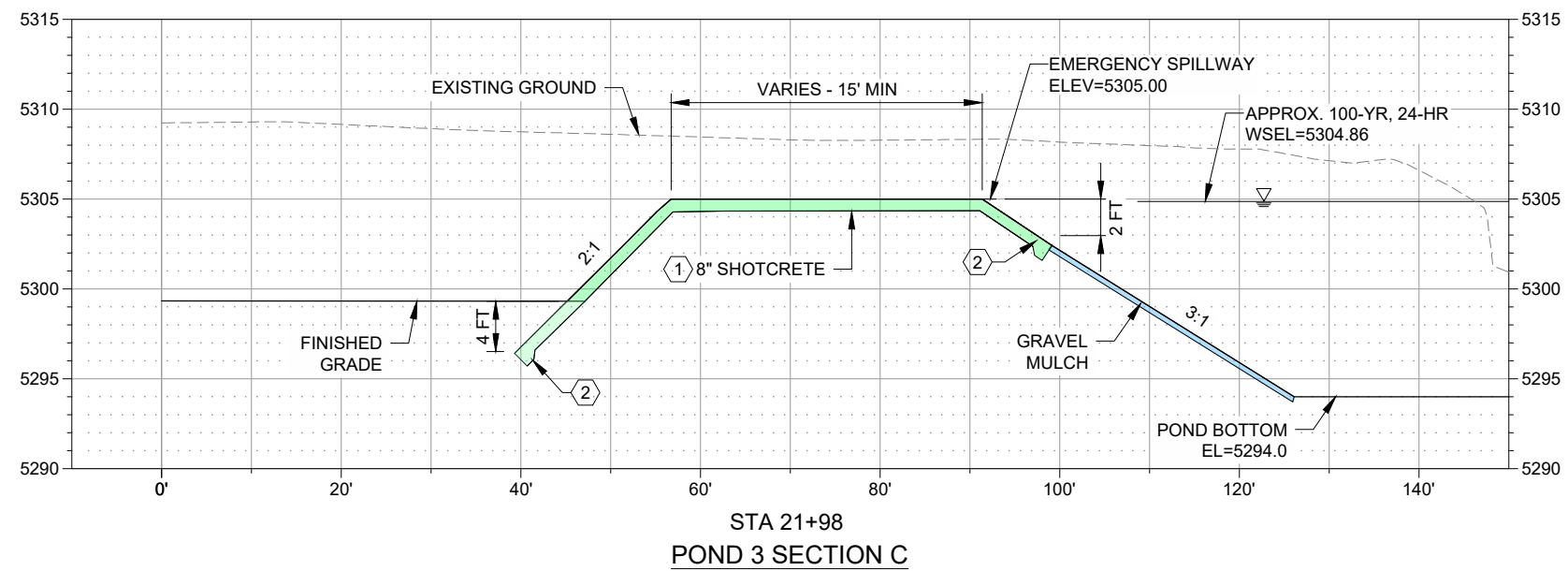
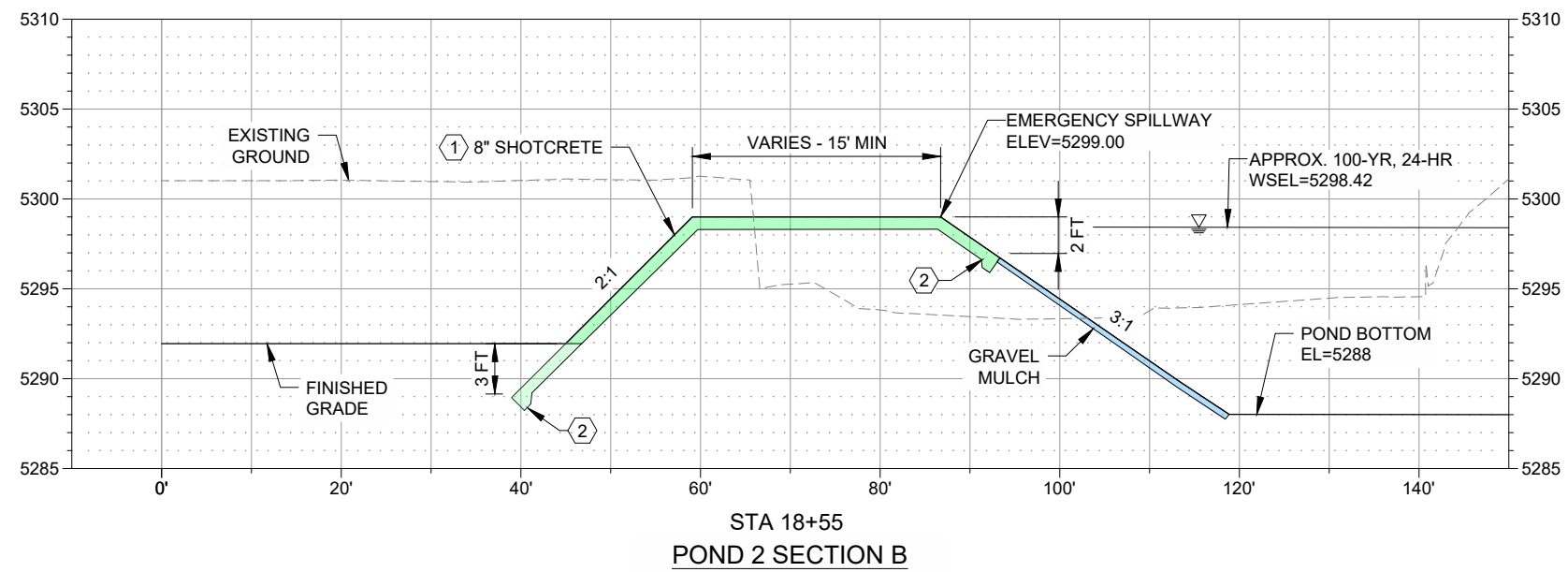
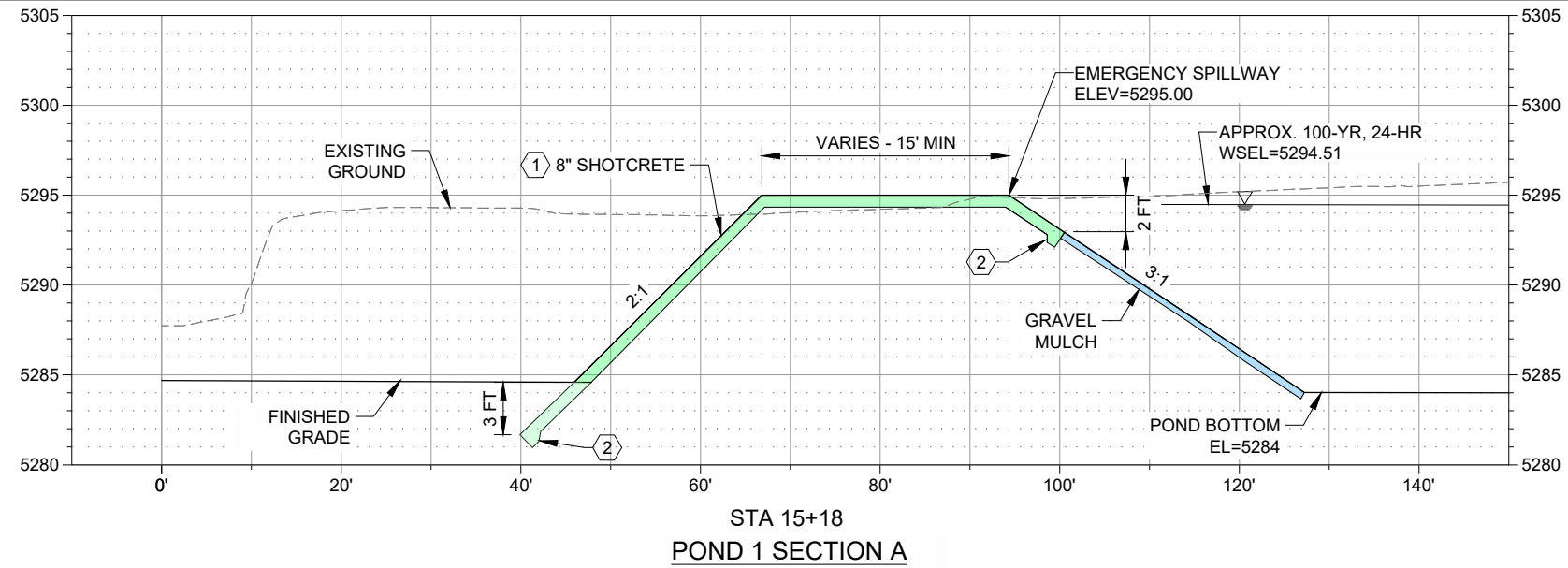
PROJECT DESCRIPTION
SSCAFCA RIPARIA PONDS

SHEET TITLE
OVERALL SITE GRADING AND BLACK ARROYO PROFILE



PROJECT NO: BL_P0001-03
DESIGNED BY: WHP
DRAWN BY: WHP
CHECKED BY: WHP
DATE: 2-6-23
DPI CHK:
SHEET NO. C - 2

FINAL PLAN SIZE - 22x34



LEGEND

- CLASS A RIPRAP
- SUBSURFACE CLASS A RIPRAP
- CLASS B RIPRAP
- CLASS H RIPRAP
- GRAVEL MULCH
- BASE COURSE ACCESS ROAD
- SHOTCRETE
- SUBSURFACE SHOTCRETE
- REINFORCED CONCRETE
- SEEDING

KEYED NOTES

1. CONSTRUCT 8" THICK SHOTCRETE PER AMAFCA STD DETAIL C102S SEE DETAIL ON SHEET C-509.
2. CONSTRUCT 1'X1' THICKENED EDGE, PER DETAIL SHEET C-509.



NO.	DESCRIPTION	DATE	BY	REVISIONS (OR CHANGE NOTICES)
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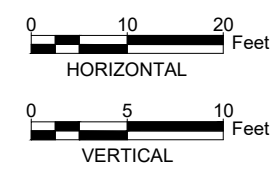


PROJECT DESCRIPTION
SSCAFCA RIPARIA PONDS

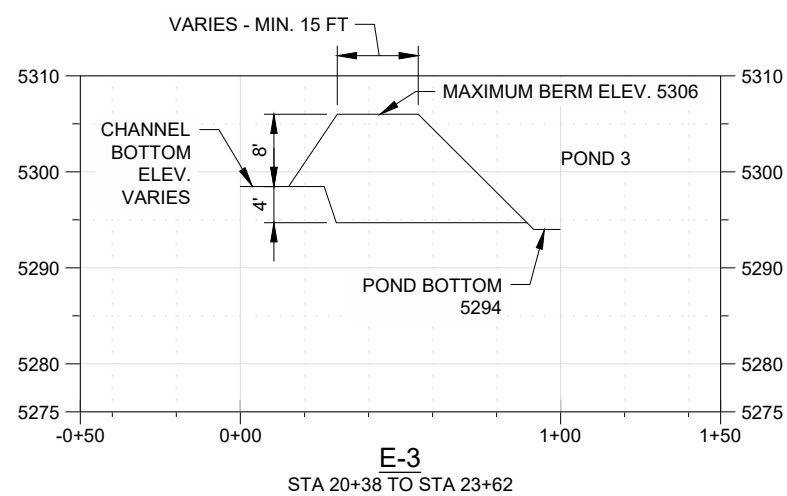
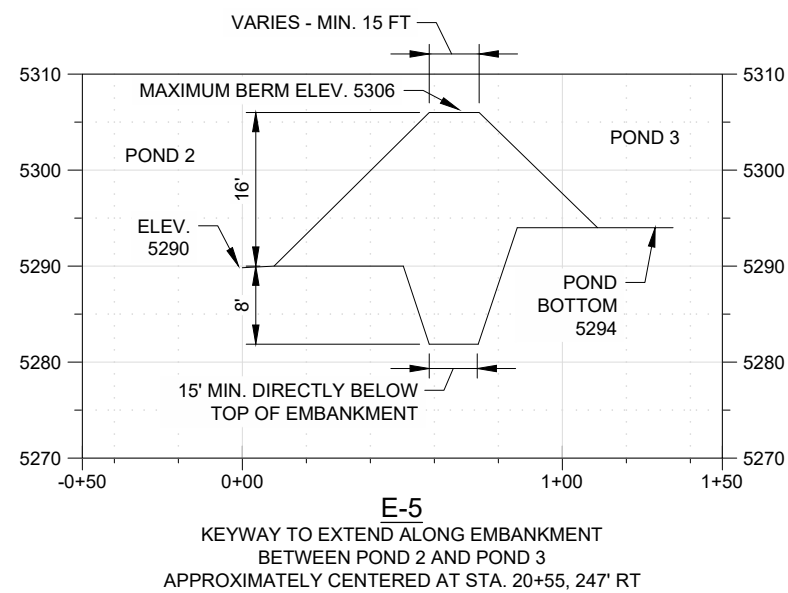
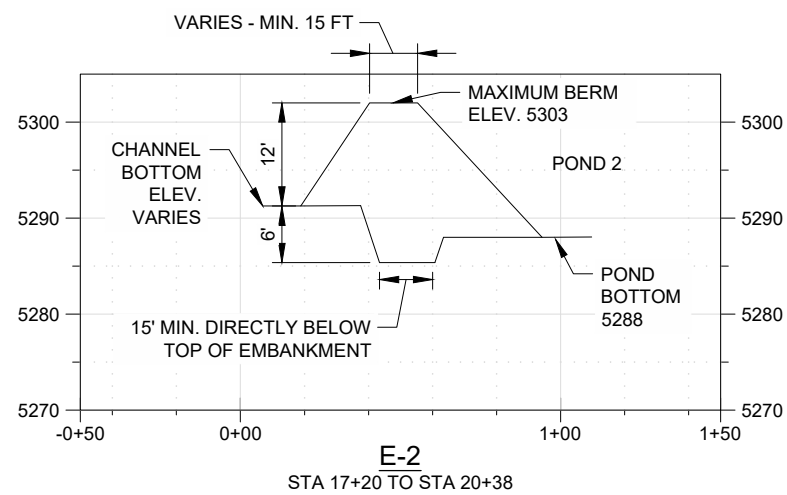
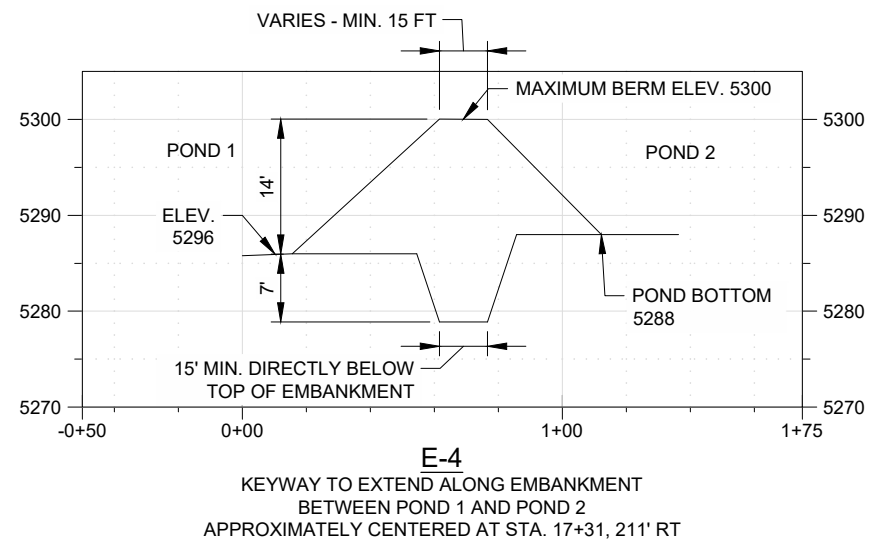
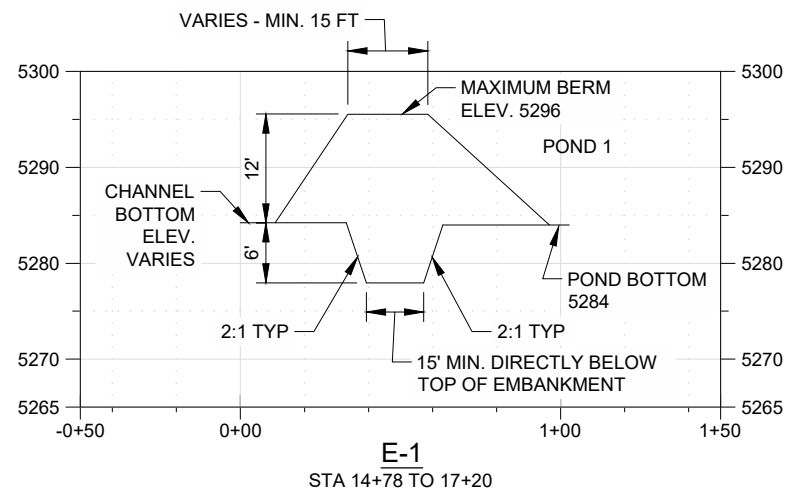
SHEET TITLE
POND CROSS-SECTIONS



PROJECT NO: BL_P0001-03
DESIGNED BY: WHP
DRAWN BY: WHP
CHECKED BY: WHP
DATE: 2-6-23
DPI CHK:
SHEET NO. C - 3



FINAL PLAN SIZE - 22x34



GENERAL NOTES

1. GEOTECHNICAL REPORT, DATED JUNE 2, 2022, WAS PREPARED FOR THIS PROJECT. ALL EARTHWORK, FILL PLACEMENT, COMPACTION AND ALL OTHER ELEMENTS OF THE GEOTECHNICAL REPORT MUST BE STRICTLY ADHERED TO IN THE CONSTRUCTION OF THIS PROJECT AND THE POND EMBANKMENTS. THE GEOTECHNICAL REPORT IS INCLUDED AT THE END OF VOLUME 2 OF THE BID AND CONTRACT DOCUMENTS.
2. SEE SHEET C-2 FOR EMBANKMENT LOCATIONS.



NO.	DESCRIPTION	DATE	BY
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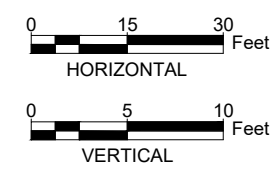
PROJECT DESCRIPTION
SSCAFCA RIPARIA PONDS

SHEET TITLE
EMBANKMENT - KEYWAY DETAILS

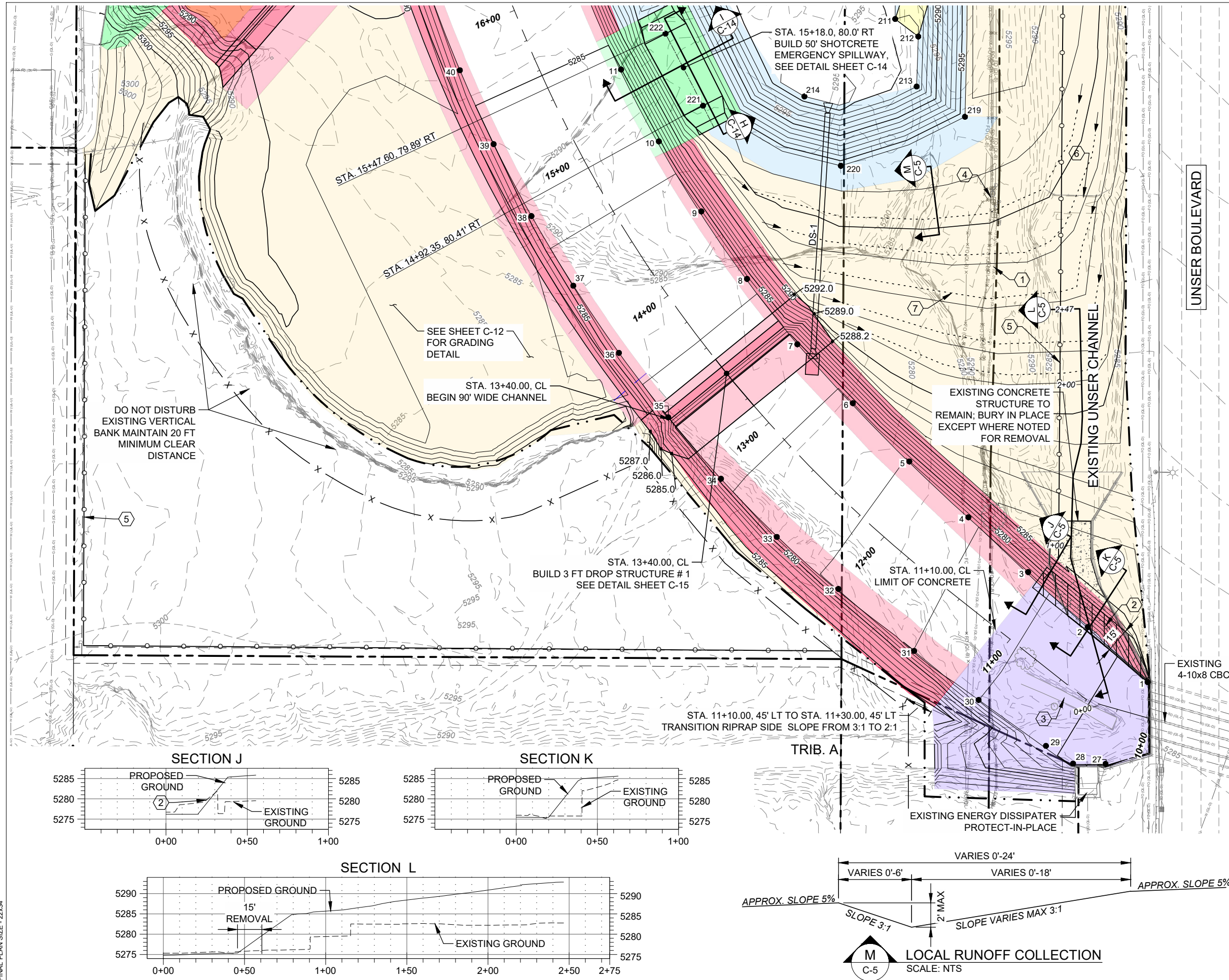


PROJECT NO: BL_P0001-03
DESIGNED BY: WHP
DRAWN BY: WHP
CHECKED BY: WHP
DATE: 2-6-23
DPI CHK:

SHEET NO.
C - 4



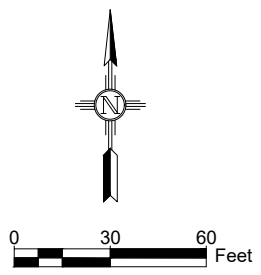
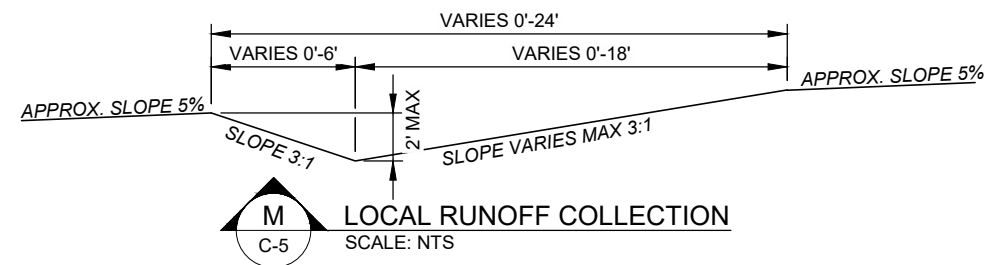
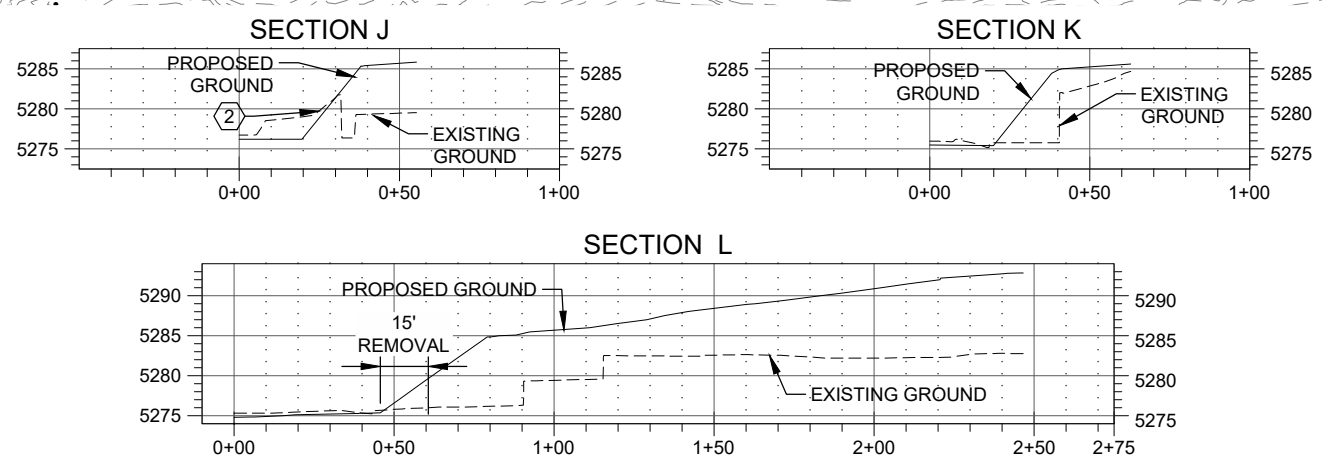
FINAL PLAN SIZE - 22x34



- LEGEND**
- EXIST. MINOR CONTOUR
 - EXIST. MAJOR CONTOUR
 - CATV (QL-D)- EXIST. CATV LINE
 - E (QL-D)- EXIST. ELEC. LINE
 - FO (QL-D)- EXIST. FIBER OPTIC LINE
 - G (QL-D)- EXIST. GAS LINE
 - W (QL-D)- EXIST. WATERLINE
 - SS (QL-D)- EXIST. SANITARY SEWER
 - EXIST. DROP INLET
 - 5280- PROP. MAJOR CONTOUR
 - PROP. MINOR CONTOUR
 - == EXIST. STORM DRAIN
 - == PROP. STORM DRAIN
 - - - PROPERTY LINES
 - . . . LIMIT OF GRADING
 - X - CONSTRUCTION FENCE
 - 5 STRAND FENCE
 - POST AND CABLE FENCE
 - CLASS A RIPRAP
 - SUBSURFACE CLASS A RIPRAP
 - CLASS B RIPRAP
 - CLASS H RIPRAP
 - GRAVEL MULCH
 - BASE COURSE ACCESS ROAD
 - SHOTCRETE
 - SUBSURFACE SHOTCRETE
 - REINFORCED CONCRETE
 - SEEDING

- GENERAL NOTES**
1. SEE DRAINAGE STRUCTURE. PROFILES ON SHEETS C-9 TO C-11.
 2. SEE SHEET C-8 FOR GRADING POINT TABLES.

- KEYED NOTES**
1. EXISTING FIBER OPTIC LINE CONTRACTOR TO PROTECT IN PLACE.
 2. REMOVE AND DISPOSE PARTS OF EXISTING CONCRETE STRUCTURE AS SHOWN. APPROX. 15' X 93'.
 3. REMOVE EXISTING SOIL CEMENT BERM TO APPROXIMATELY 1-FT BELOW FINISHED GRADE.
 4. CONTRACTOR TO COORDINATE WITH UTILITY OWNER TO ADJUST EXISTING UTILITIES INCLUDING PULL BOXES AND FIBER OPTIC MARKERS TO GRADE IN UTILITY CORRIDOR.
 5. INSTALL 5-STRAND FENCE. PER SSCAFCA DETAIL M100 SEE SHEET C-504.
 6. EXISTING CHECK DAM TO BE BURIED.
 7. SEE SECTION M FOR CONTOUR PONDING GRADING DETAIL.



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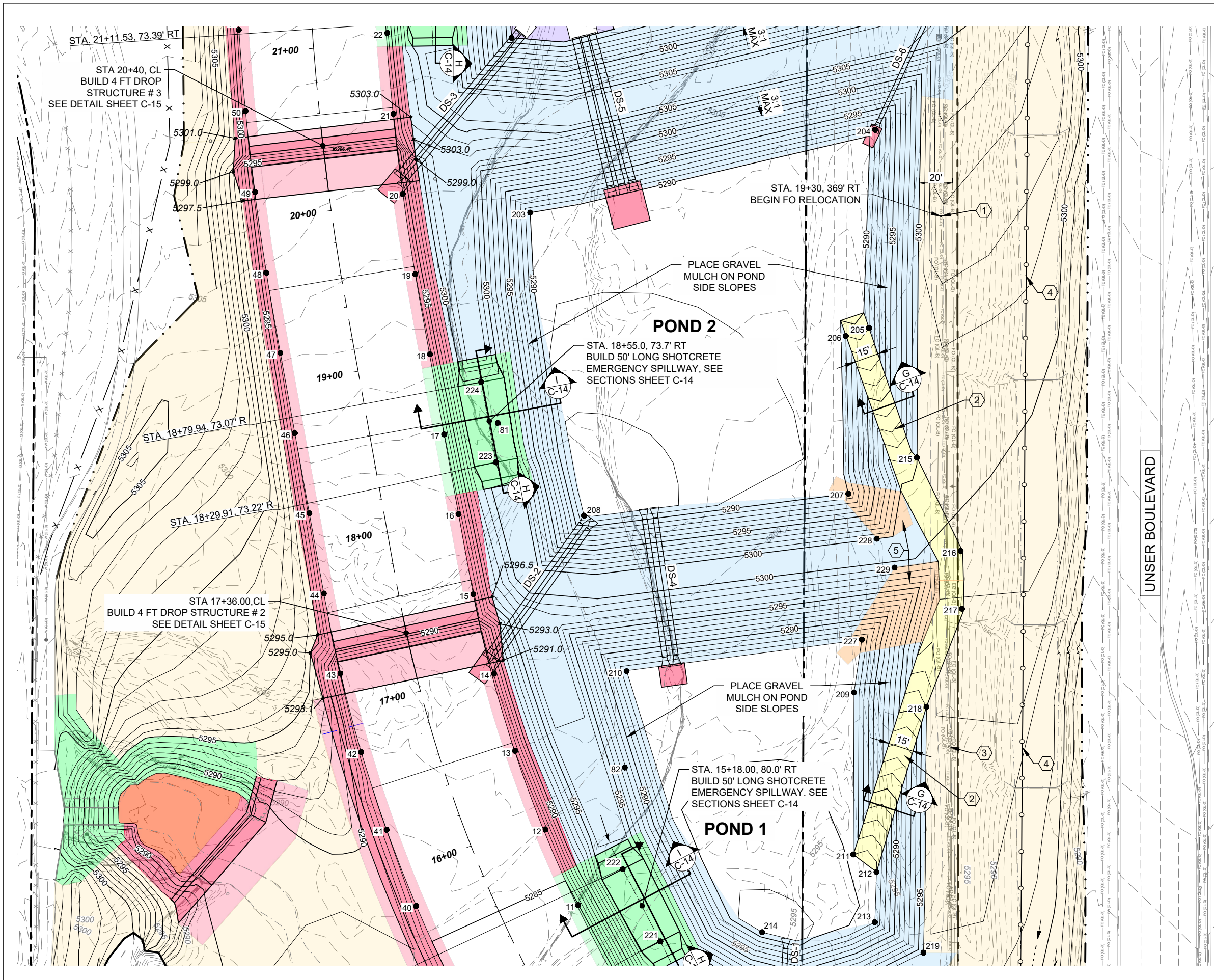
PROJECT DESCRIPTION
SSCAFCA RIPARIA PONDS
 SHEET TITLE
OUTFALL AND SOUTHERN CHANNEL GRADING PLAN



PROJECT NO: BL_P0001-03
 DESIGNED BY: WHP
 DRAWN BY: WHP
 CHECKED BY: WHP
 DATE: 2-6-23
 DPI CHK:
 SHEET NO.
C - 5

FINAL PLAN SIZE - 22x34

FINAL PLAN SIZE - 22x34



LEGEND

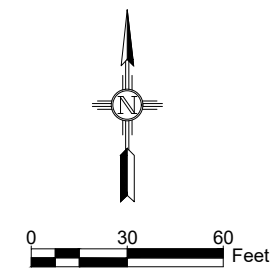
- EXIST. MINOR CONTOUR
- EXIST. MAJOR CONTOUR
- CATV (QL-D)- EXIST. CATV LINE
- E (QL-D)- EXIST. ELEC. LINE
- FO (QL-D)- EXIST. FIBER OPTIC LINE
- G (QL-D)- EXIST. GAS LINE
- W (QL-D)- EXIST. WATERLINE
- SS (QL-D)- EXIST. SANITARY SEWER
- EXIST. DROP INLET
- 5280- PROP. MAJOR CONTOUR
- PROP. MINOR CONTOUR
- == EXIST. STORM DRAIN
- PROP. STORM DRAIN
- PROPERTY LINES
- · · - LIMIT OF GRADING
- X - CONSTRUCTION FENCE
- 5 STRAND FENCE
- POST AND CABLE FENCE
- CLASS A RIPRAP
- SUBSURFACE CLASS A RIPRAP
- CLASS B RIPRAP
- CLASS H RIPRAP
- GRAVEL MULCH
- BASE COURSE ACCESS ROAD
- SHOTCRETE
- SUBSURFACE SHOTCRETE
- REINFORCED CONCRETE
- SEEDING

GENERAL NOTES

1. SEE DRAINAGE STRUCTURE PROFILES ON SHEETS C-9 THROUGH C-11.
2. SEE SHEET C-8 FOR GRADING POINT TABLES.

KEYED NOTES

1. CONTRACTOR TO COORDINATE WITH OWNER TO RELOCATE EXISTING FIBER OPTIC LINE FROM STA. 19+30, 369' RT TO STA. 24+61, 382.5' RT BY UTILITY OWNER.
2. CONSTRUCT MAINTENANCE ROAD PER SSCAFCA STD DWG 2260. SEE SHEET C-506.
3. CONTRACTOR TO COORDINATE WITH UTILITY OWNER TO ADJUST EXISTING PULL BOXES AND FIBER OPTIC MARKERS TO GRADE IN UTILITY CORRIDOR.
4. INSTALL 5-STRAND FENCE. PER SSCAFCA DETAIL M100 SEE SHEET C-504.
5. INSTALL CLASS B RIPRAP WITH GEOTEXTILE, 1-FT THICK. PLACE RIPRAP 6-FT IN EACH DIRECTION FROM BOTTOM CORNER POINT. EXTEND TO TOP OF POND AS SHOWN. BUILD 10-FT X 10-FT X 12-IN THICK RIPRAP PAD, WITH GEOTEXTILE AT BOTTOM OF POND.



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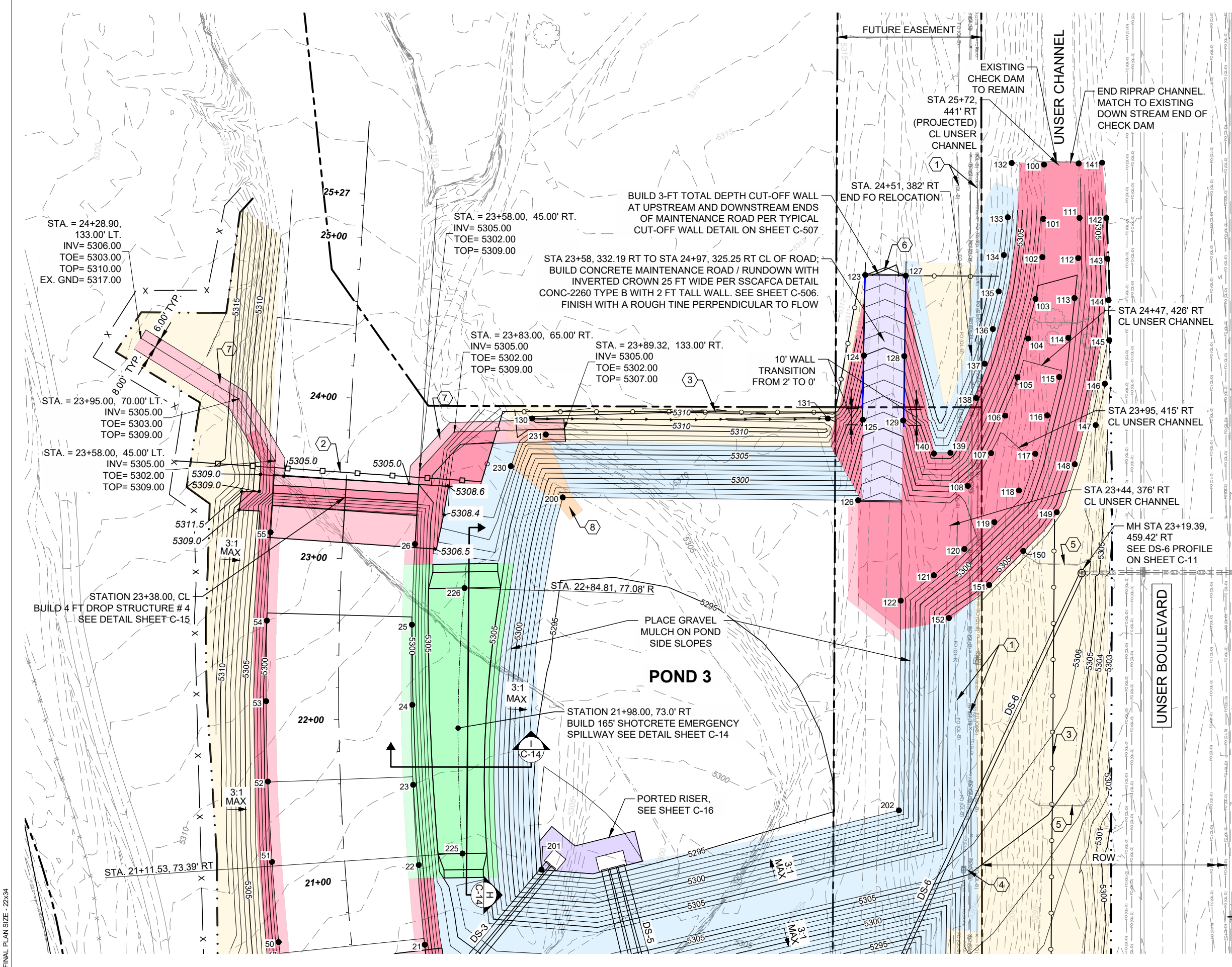


PROJECT DESCRIPTION
SSCAFCA RIPARIA PONDS

SHEET TITLE
POND 1 & 2 GRADING PLAN



PROJECT NO: BL_P0001-03
 DESIGNED BY: WHP
 DRAWN BY: WHP
 CHECKED BY: WHP
 DATE: 2-6-23
 DPI CHK:
 SHEET NO.



LEGEND

- EXIST. MINOR CONTOUR
- EXIST. MAJOR CONTOUR
- CATV (QL-D)- EXIST. CATV LINE
- E (QL-D)- EXIST. ELEC. LINE
- FO (QL-D)- EXIST. FIBER OPTIC LINE
- G (QL-D)- EXIST. GAS LINE
- W (QL-D)- EXIST. WATERLINE
- SS (QL-D)- EXIST. SANITARY SEWER
- EXIST. DROP INLET
- 5280--- PROP. MAJOR CONTOUR
- PROP. MINOR CONTOUR
- EXIST. STORM DRAIN
- PROP. STORM DRAIN
- PROPERTY LINES
- · - · - LIMIT OF GRADING
- X - CONSTRUCTION FENCE
- 5 STRAND FENCE
- POST AND CABLE FENCE
- CLASS A RIPRAP
- SUBSURFACE CLASS A RIPRAP
- CLASS B RIPRAP
- CLASS H RIPRAP
- GRAVEL MULCH
- BASE COURSE ACCESS ROAD
- SHOTCRETE
- SUBSURFACE SHOTCRETE
- REINFORCED CONCRETE
- SEEDING

- GENERAL NOTES**
- SEE DRAINAGE STRUCTURE PROFILES ON SHEETS C-9 THROUGH C-11.
 - SEE SHEET C-8 FOR GRADING POINT TABLES.

- KEYED NOTES**
- CONTRACTOR TO COORDINATE WITH UTILITY OWNER TO ADJUST EXISTING PULL BOXES AND FO MARKERS TO GRADE IN UTILITY CORRIDOR. EXISTING FIBER OPTIC LINE TO BE RELOCATED FROM STA. 19+30, 369' RT TO STA. 24+61, 382.5' RT BY UTILITY OWNER.
 - INSTALL POST AND CABLE FENCE PER SCAFCFA STD DETAIL M104. SEE SHEET C-504.
 - INSTALL 5 STRAND FENCE PER SCAFCFA DETAIL M100. SEE SHEET C-504.
 - ADJUST EXISTING PULL BOXES AND FIBER OPTIC MARKERS TO GRADE IN UTILITY CORRIDOR.
 - EXISTING CHECK DAM TO BE BURIED IN PLACE.
 - 25' WIDE GATE PER SCAFCFA STD DWG M101. SEE SHEET C-505.
 - BUILD BURIED CLASS A RIPRAP REVETMENT STRUCTURE.
 - INSTALL CLASS B RIPRAP WITH GEOTEXTILE, 1-FT THICK. PLACE RIPRAP 6-FT IN EACH DIRECTION FROM BOTTOM CORNER POINT. EXTEND TO TOP OF POND AS SHOWN. BUILD 10-FT X 10-FT X 12IN THICK RIPRAP PAD, WITH GEOTEXTILE AT BOTTOM OF POND.

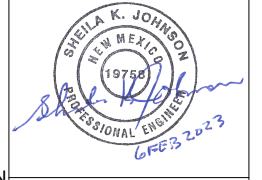


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PROJECT DESCRIPTION
SSCAFCFA RIPARIA PONDS

SHEET TITLE
POND 3 GRADING PLAN



PROJECT NO: BL_P0001-03
DESIGNED BY: WHP
DRAWN BY: WHP
CHECKED BY: WHP
DATE: 2-6-23
DPI CHK:
SHEET NO. C-7

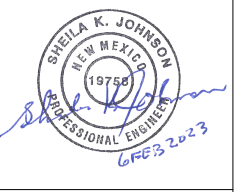
FINAL PLAN SIZE - 22x34



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PROJECT DESCRIPTION
SSCAFCA RIPARIA PONDS
SHEET TITLE
GRADING POINT TABLES



PROJECT NO: BL_P0001-03
DESIGNED BY: WHP
DRAWN BY: WHP
CHECKED BY: WHP
DATE: 2-6-23
DPI CHK:
SHEET NO.
C - 8

REVISIONS (OR CHANGE NOTICES)

BLACK ARROYO

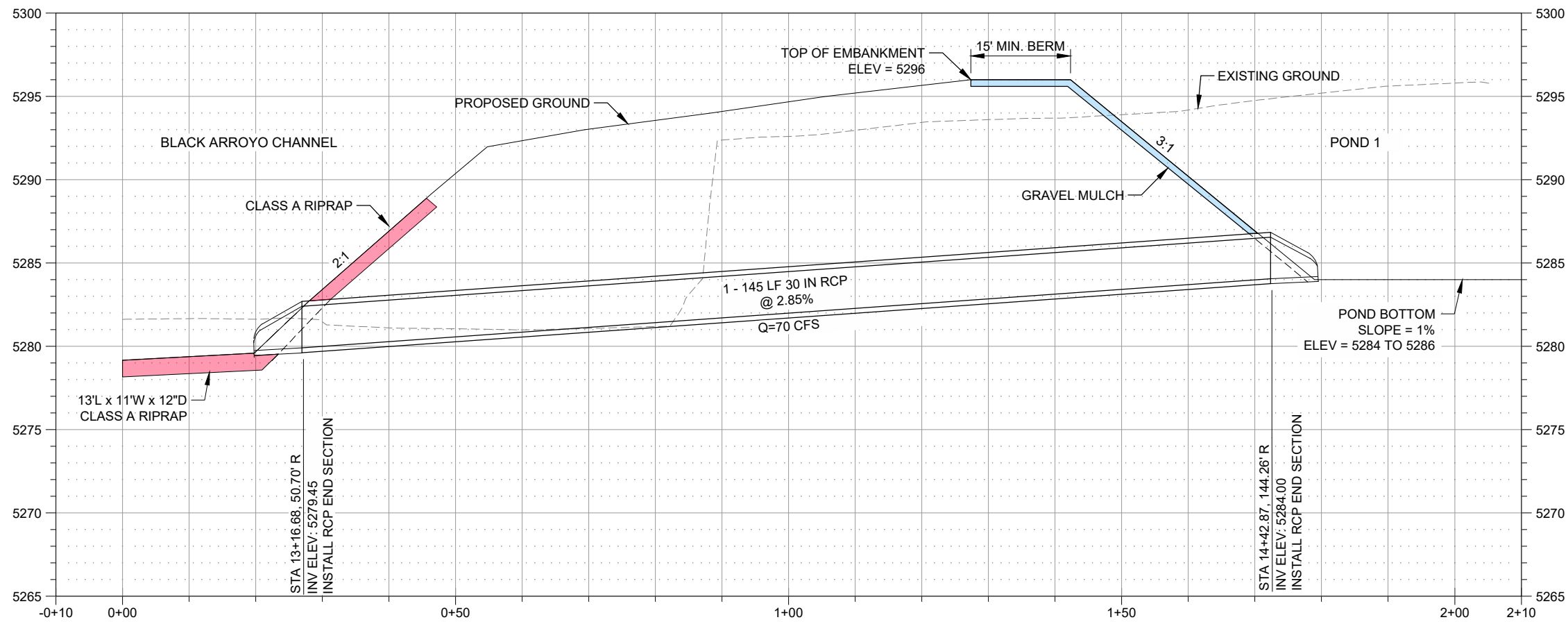
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2	FG	5275.778	1537867.5898	1507069.9653
3	FG	5276.716	1537901.4274	1507033.1548
4	FG	5277.100	1537935.2027	1506996.2882
5	FG	5277.937	1537969.5847	1506959.9776
6	FG	5278.988	1538005.4655	1506925.1701
7	FG	5279.608	1538041.7832	1506890.9929
8	FG	5283.317	1538082.0469	1506859.9906
9	FG	5284.001	1538123.6215	1506831.8181
10	FG	5284.458	1538166.7572	1506805.6348
11	FG	5284.864	1538211.0634	1506782.4109
12	FG	5285.472	1538257.3864	1506762.4011
13	FG	5286.000	1538305.6379	1506743.7059
14	FG	5286.834	1538353.0600	1506730.7266
15	FG	5290.888	1538401.6763	1506718.0472
16	FG	5291.405	1538451.0169	1506708.9984
17	FG	5291.924	1538499.8512	1506700.1526
18	FG	5292.536	1538549.0306	1506691.5054
19	FG	5292.949	1538598.1458	1506682.4321
20	FG	5293.458	1538647.3905	1506674.8538
21	FG	5298.000	1538696.5678	1506669.0587
22	FG	5298.740	1538746.0944	1506665.3249
23	FG	5299.000	1538795.9471	1506661.8721
24	FG	5299.680	1538845.6041	1506661.3055
25	FG	5299.979	1538895.4561	1506661.0754
26	FG	5300.408	1538945.5795	1506662.9679
27	FG	5275.000	1537783.2144	1507080.8652
28	FG	5274.580	1537783.4741	1507060.8402
29	FG	5274.941	1537794.3403	1507044.0830
30	FG	5275.951	1537822.6520	1507002.6306
31	FG	5276.818	1537852.8281	1506962.9391
32	FG	5277.738	1537891.0318	1506916.2799
33	FG	5278.672	1537923.1082	1506878.3212
34	FG	5279.175	1537958.9429	1506843.9056
35	FG	5282.851	1537996.7639	1506811.4447
36	FG	5283.281	1538036.4792	1506781.0534
37	FG	5283.926	1538077.8543	1506752.9309
38	FG	5284.320	1538120.7589	1506727.1694
39	FG	5285.000	1538165.0914	1506703.8535
40	FG	5285.361	1538210.5988	1506683.0642
41	FG	5285.940	1538257.2877	1506664.8503
42	FG	5286.337	1538304.8753	1506649.3089
43	FG	5286.819	1538353.1737	1506636.4884
44	FG	5291.120	1538402.1891	1506626.3784
45	FG	5291.620	1538451.3885	1506617.4665
46	FG	5292.102	1538500.5878	1506608.5545
47	FG	5292.617	1538549.7872	1506599.6426
48	FG	5293.122	1538599.0402	1506591.0635
49	FG	5293.620	1538648.5712	1506584.1798
50	FG	5298.080	1538698.2162	1506578.2685
51	FG	5298.505	1538748.0484	1506574.1516
52	FG	5299.006	1538797.9863	1506571.5604
53	FG	5299.372	1538847.9364	1506570.4977
54	FG	5299.951	1538897.9622	1506570.9634
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UNSER CHANNEL

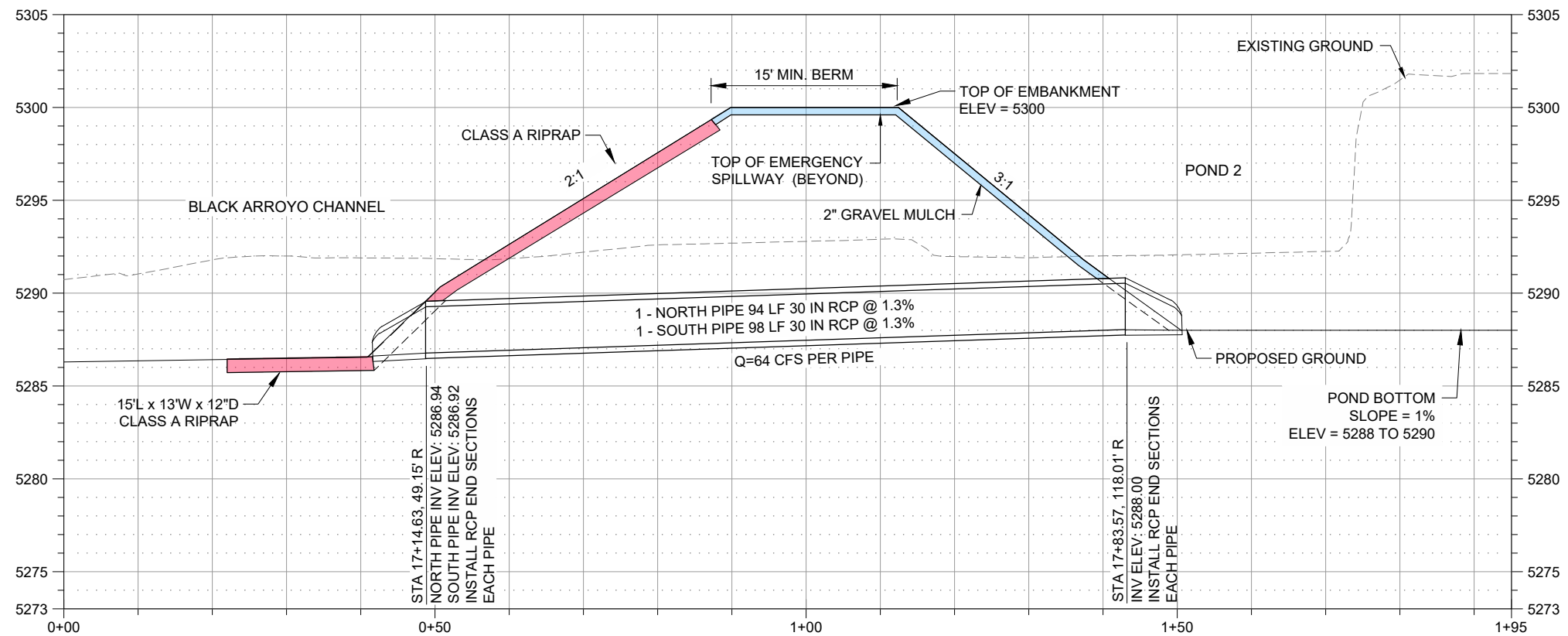
Point Table				
Point #	Raw Description	Elevation	Northing	Easting
100	EG	5300.552	1539181.3948	1507053.6622
101	FG	5300.870	1539147.6025	1507053.1442
102	FG	5300.364	1539123.8128	1507052.6603
103	FG	5299.919	1539097.8601	1507048.3389
104	FG	5299.227	1539073.2674	1507043.8622
105	FG	5299.144	1539049.2022	1507037.1770
106	FG	5298.220	1539025.3716	1507029.6205
107	FG	5297.719	1539002.0319	1507020.7910
108	FG	5297.146	1538981.7038	1507006.3693
109				
110	EG	5300.743	1539182.0605	1507075.1464
111	FG	5300.691	1539148.2786	1507075.7069
112	FG	5300.298	1539123.2946	1507074.9307
113	FG	5299.958	1539098.4060	1507072.6164
114	FG	5299.622	1539073.7072	1507068.7728
115	FG	5298.919	1539049.3706	1507063.1333
116	FG	5298.500	1539025.5071	1507055.6813
117	FG	5298.082	1539001.6436	1507048.2292
118	FG	5297.631	1538978.8706	1507038.0906
119	FG	5297.544	1538959.1853	1507022.7750
120	FG	5297.157	1538942.4558	1507004.2134
121	FG	5297.017	1538926.1965	1506985.2266
122	FG	5296.000	1538910.3927	1506964.7008
123	FG	5310.000	1539112.7382	1506942.6253
124	FG	5305.000	1539062.7309	1506941.7772
125	FG	5301.000	1539022.7251	1506941.0988
126	FG	5296.000	1538972.7602	1506938.2377
127	EG	5310.000	1539112.3133	1506967.7639
128	FG	5305.000	1539062.3152	1506966.9160
129	FG	5301.000	1539022.3167	1506966.2377
130	FG	5309.989	1539023.5800	1506735.8095
131	FG	5309.000	1539023.5791	1506919.4250
132	EG	5306.988	1539182.3855	1507033.5626
133	FG	5307.936	1539148.6131	1507031.1579
134	FG	5307.973	1539125.1458	1507028.7442
135	FG	5307.831	1539102.5167	1507025.4897
136	FG	5307.083	1539079.1739	1507021.8769
137	FG	5306.611	1539057.6259	1507016.8236
138	FG	5305.596	1539036.3319	1507011.5287
139	FG	5306.000	1539002.2154	1506995.5145
140	FG	5305.869	1539001.8286	1506985.2490
141	EG	5306.736	1539182.5070	1507089.7668
142	FG	5306.900	1539148.0135	1507092.4119
143	FG	5306.679	1539122.8482	1507093.0140
144	FG	5306.854	1539097.0932	1507093.7352
145	FG	5306.214	1539072.2147	1507094.2161
146	FG	5306.045	1539045.1182	1507091.4695
147	FG	5306.027	1539019.4793	1507085.8162
148	FG	5306.017	1538995.1676	1507072.8074
149	FG	5306.060	1538965.3614	1507061.6256
150	FG	5305.952	1538941.2739	1507040.8020
151	FG	5305.864	1538920.1211	1507019.6407
152	FG	5305.989	1538899.6377	1506994.5927

PONDS

Point Table				
Point #	Raw Description	Elevation	Northing	Easting
200	FG	5296.000	1538974.5113	1506754.7580
201	FG	5294.000	1538743.1898	1506741.5746
202	FG	5296.000	1538780.0324	1506963.5471
203	FG	5290.000	1538635.9153	1506752.9667
204	FG	5291.000	1538686.7390	1506964.6261
205	FG	5291.000	1538565.1314	1506960.8624
206	FG	5291.000	1538560.2517	1506946.6784
207	FG	5290.000	1538463.4811	1506948.1865
208	FG	5288.000	1538449.9901	1506785.9682
209	FG	5286.000	1538341.5006	1506951.6757
210	FG	5286.000	1538354.5310	1506812.1357
211	FG	5286.000	1538242.1673	1506951.2327
212	FG	5286.000	1538231.3793	1506965.4637
213	FG	5286.000	1538200.5661	1506964.4194
214	FG	5284.000	1538194.4529	1506895.3036
215	FG	5300.000	1538485.7259	1506990.1997
216	FG	5203.755	1538428.3235	1507017.0909
217	FG	5203.755	1538392.8741	1507017.9232
218	FG	5296.000	1538332.7599	1506996.0963
219	FG	5296.000	1538181.9124	1506994.2554
220	FG	5296.000	1538151.7203	1506917.7646
221	FG	5295.000	1538188.7877	1506832.8273
222	FG	5295.004	1538233.1264	1506809.7153
223	FG	5299.000	1538482.7457	1506731.9340
224	FG	5299.231	1538531.9461	1506722.8637
225	FG	5305.000	1538753.2302	1506692.4641
226	FG	5305.336	1538918.2676	1506693.7572
227	FG	5286.000	1538373.9607	1506956.4496
228	FG	5300.000	1538435.8729	1506965.6348
229	FG	5299.000	1538418.0843	1506976.5722
230	FG	5309.000	1538993.9326	1506722.4821
231	FG	5309.000	1539013.6142	1506744.2099



DS-1 PROFILE



DS-2 PROFILE

LEGEND

- CLASS A RIPRAP
- SUBSURFACE CLASS A RIPRAP
- CLASS B RIPRAP
- CLASS H RIPRAP
- GRAVEL MULCH
- BASE COURSE ACCESS ROAD
- SHOTCRETE
- SUBSURFACE SHOTCRETE
- REINFORCED CONCRETE
- SEEDING

GENERAL NOTES

1. ALL STATIONING IS BASED ON THE CHANNEL CENTERLINE ALIGNMENT; ALL PIPE LENGTHS ARE SHOWN AT CORRECT LENGTH.



NO.	DESCRIPTION	DATE	BY
7			
6			
5			
4			
3			
2			
1			



PROJECT DESCRIPTION
SSCAFCA RIPARIA PONDS

SHEET TITLE
PROFILES DS-1 & DS-2



PROJECT NO: BL_P0001-03

DESIGNED BY: WHP

DRAWN BY: WHP

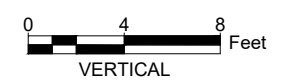
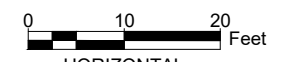
CHECKED BY: WHP

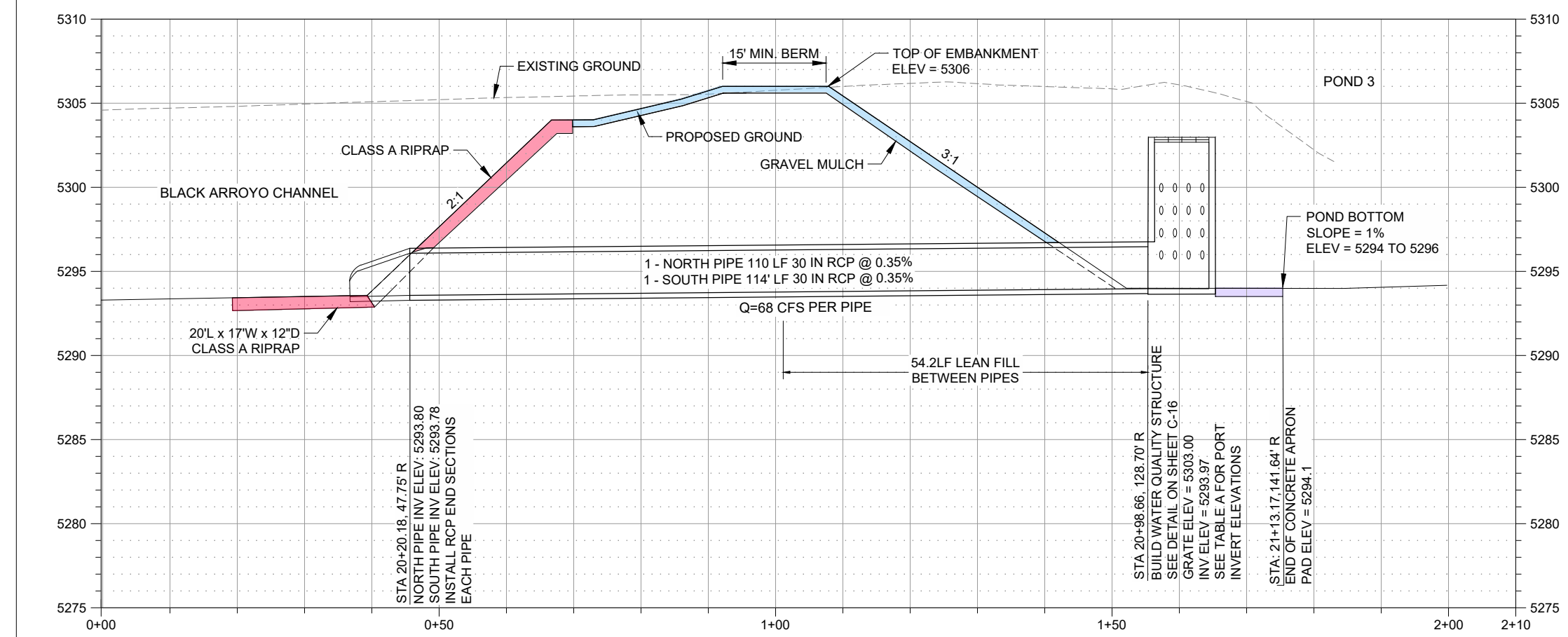
DATE: 2-6-23

DPI CHK:

SHEET NO.

C - 9





- LEGEND**
- CLASS A RIPRAP
 - SUBSURFACE CLASS A RIPRAP
 - CLASS B RIPRAP
 - CLASS H RIPRAP
 - GRAVEL MULCH
 - BASE COURSE ACCESS ROAD
 - SHOTCRETE
 - SUBSURFACE SHOTCRETE
 - REINFORCED CONCRETE
 - SEEDING

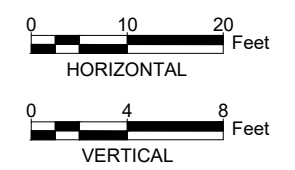
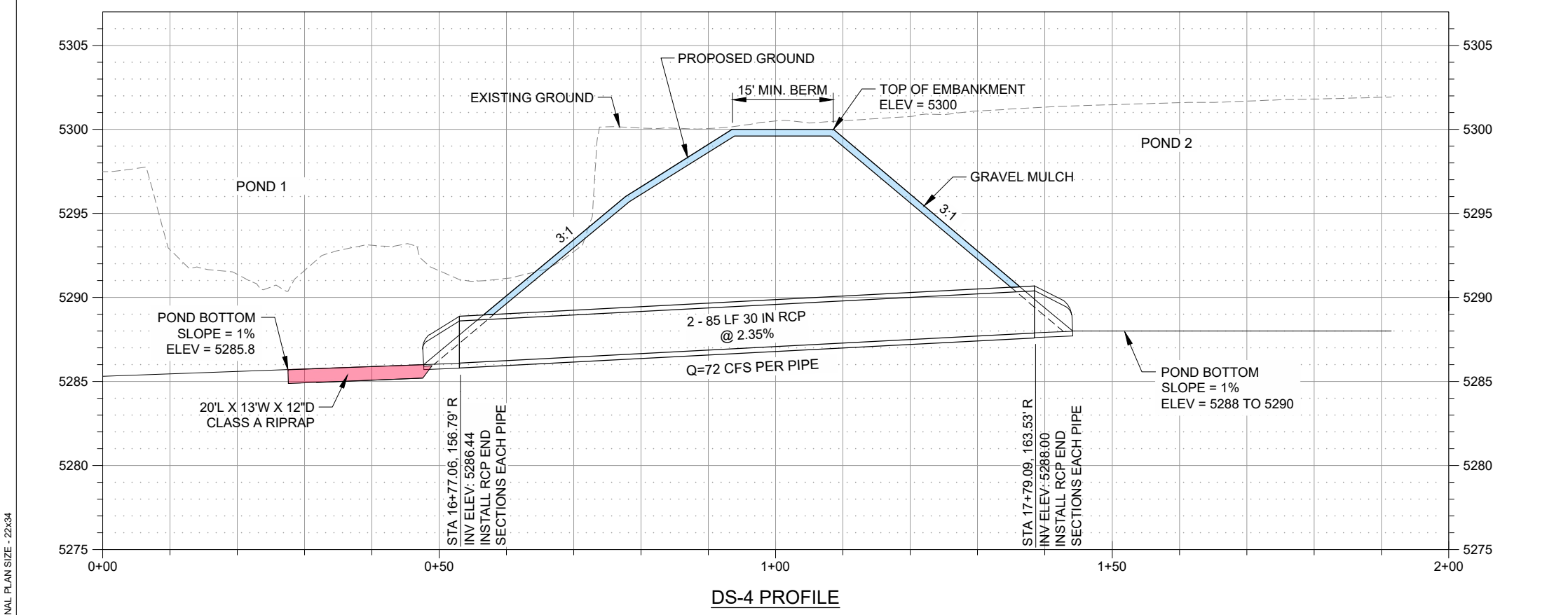
GENERAL NOTES

1. ALL STATIONING IS BASED ON THE CHANNEL CENTERLINE ALIGNMENT; ALL PIPE LENGTHS ARE SHOWN AT CORRECT LENGTH.

TABLE A

8'-6" x 8'-0" WATER QUALITY STRUCTURE - PORT ELEVATION

ROW	INVERT ELEVATION AT PORTS
ROW 4	5299.75
ROW 3	5298.41
ROW 2	5297.08
ROW 1	5295.75



NO.	DESCRIPTION	DATE	BY
7			
6			
5			
4			
3			
2			
1			

REVISIONS (OR CHANGE NOTICES)



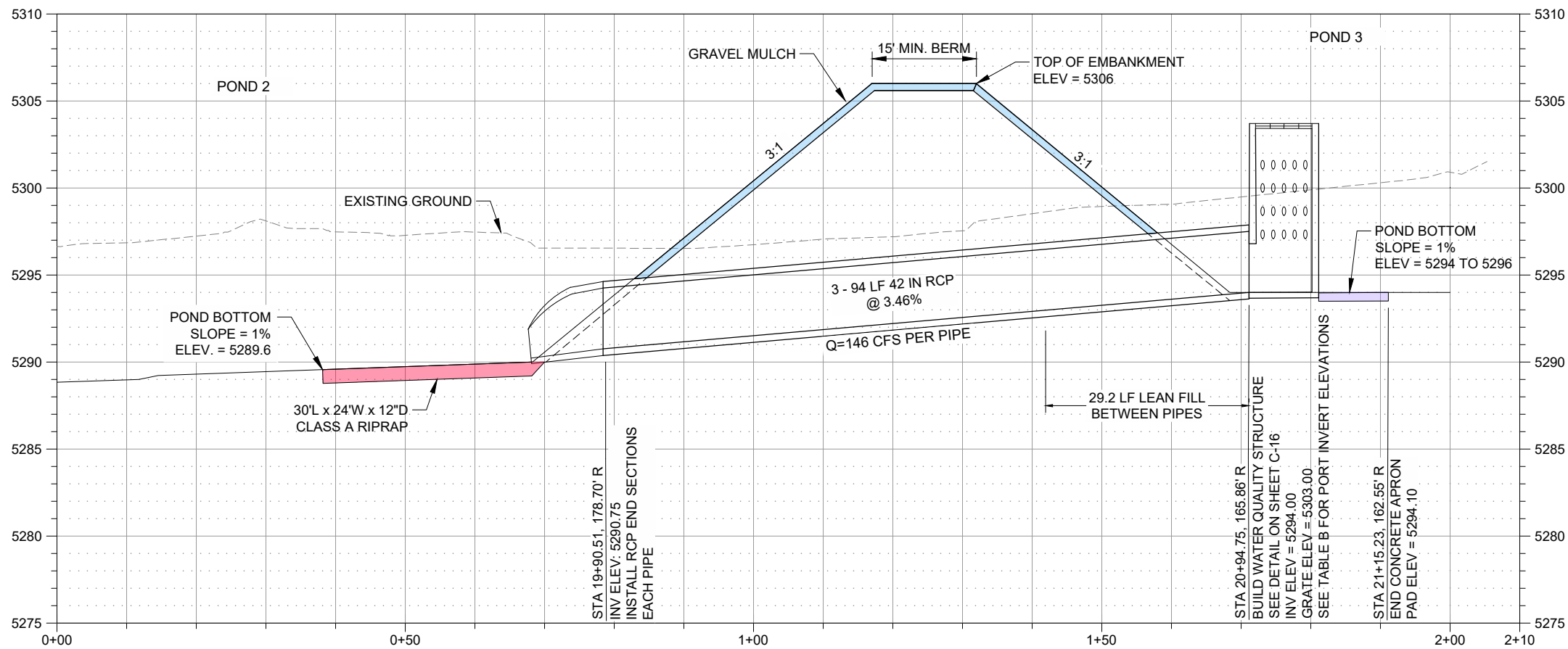
PROJECT DESCRIPTION
SSCAFCAN RIPARIA PONDS

SHEET TITLE
PROFILES DS-3 & DS-4

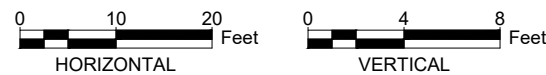


PROJECT NO: BL_P0001-03
DESIGNED BY: WHP
DRAWN BY: WHP
CHECKED BY: WHP
DATE: 2-6-23
DPI CHK:
SHEET NO.
C - 10

FINAL PLAN SIZE - 22x34



DS-5 PROFILE



LEGEND

- CLASS A RIPRAP
- SUBSURFACE CLASS A RIPRAP
- CLASS B RIPRAP
- CLASS H RIPRAP
- GRAVEL MULCH
- BASE COURSE ACCESS ROAD
- SHOTCRETE
- SUBSURFACE SHOTCRETE
- REINFORCED CONCRETE
- SEEDING

GENERAL NOTES

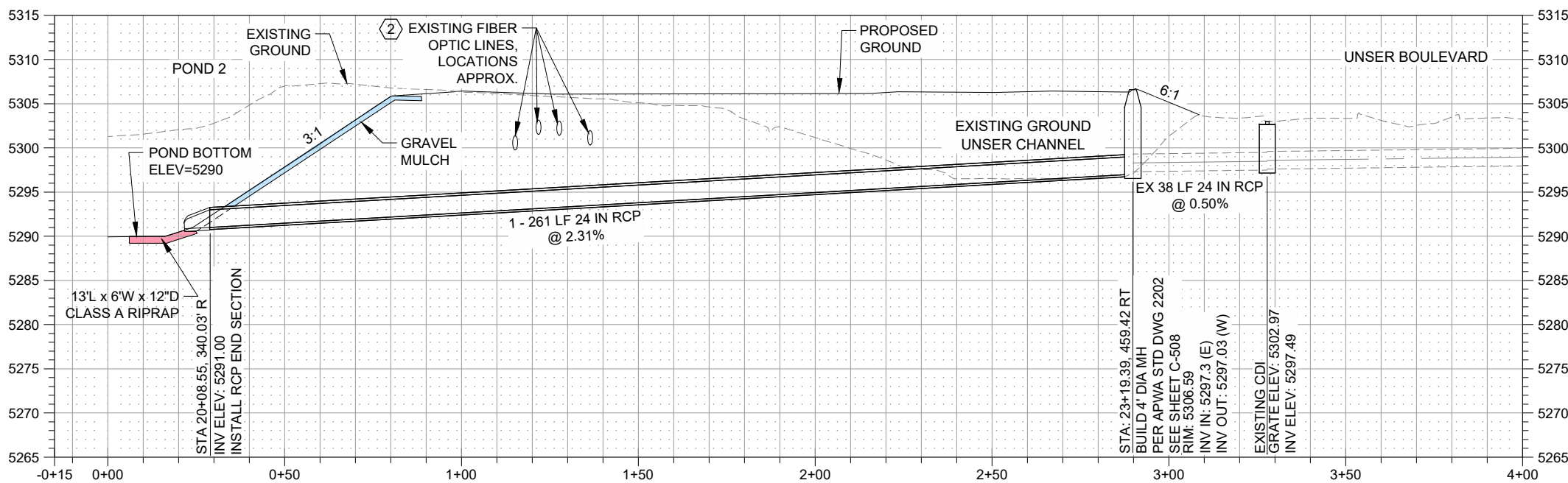
1. ALL STATIONING IS BASED ON THE CHANNEL CENTERLINE ALIGNMENT; ALL PIPE LENGTHS ARE SHOWN AT CORRECT LENGTH.
2. CONTRACTOR TO COORDINATE WITH UTILITY OWNER WHO MUST SUPPORT OR RELOCATE FO LINES.

TABLE B

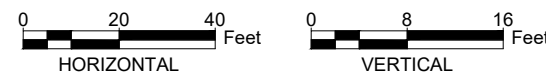
16'-1" x 8'-0" WATER QUALITY STRUCTURE - PORT ELEVATION	
ROW	INVERT ELEVATION AT PORTS
ROW 5	5301.08
ROW 4	5299.75
ROW 3	5298.41
ROW 2	5297.08
ROW 1	5295.75



NO.	DESCRIPTION	DATE	BY
7			
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4			
3			
2			
1			

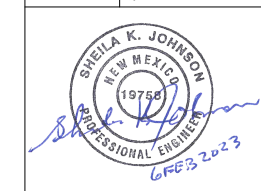


DS-6 PROFILE



PROJECT DESCRIPTION
SSCAFCA RIPARIA PONDS

SHEET TITLE
PROFILES DS-5 & DS-6



PROJECT NO: BL_P0001-03

DESIGNED BY: WHP

DRAWN BY: WHP

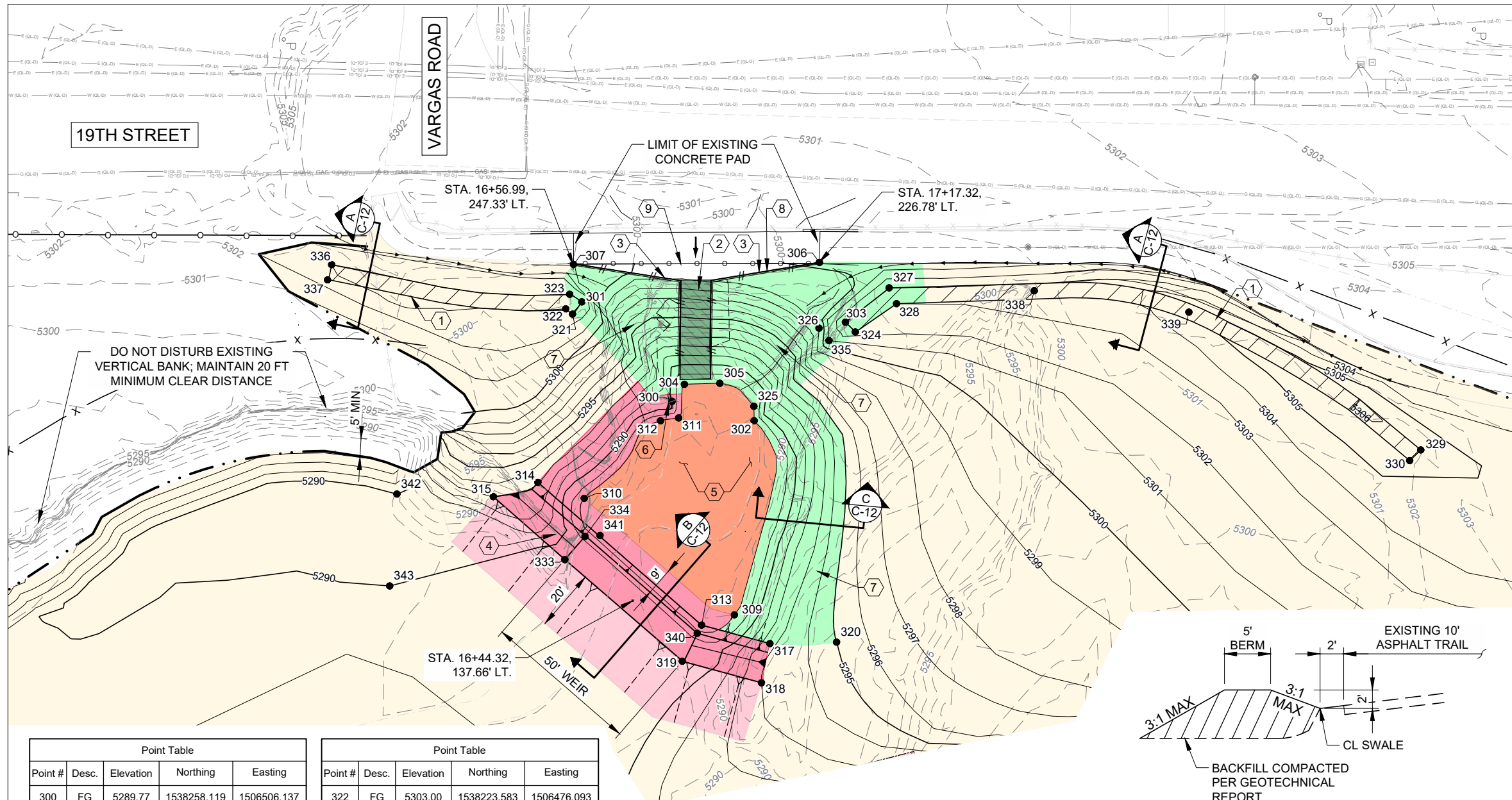
CHECKED BY: WHP

DATE: 2-6-23

DPI CHK:

SHEET NO.
C - 11

FINAL PLAN SIZE - 22x34

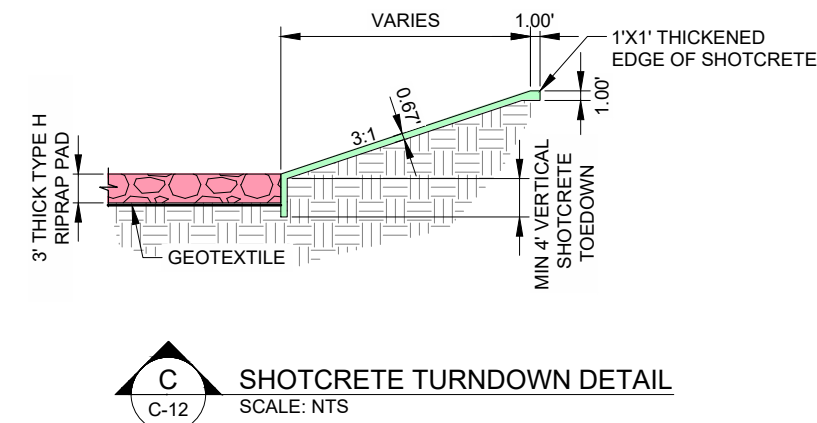
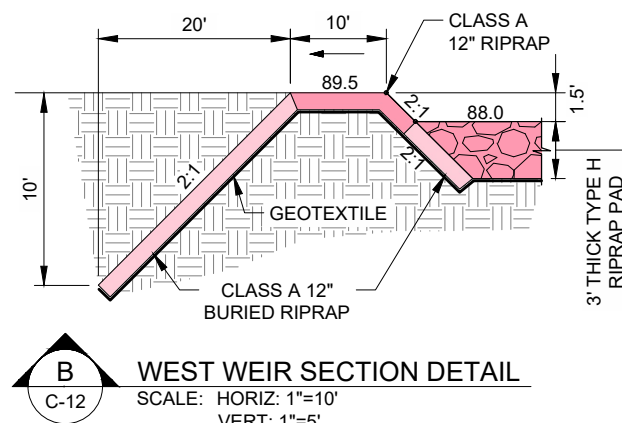
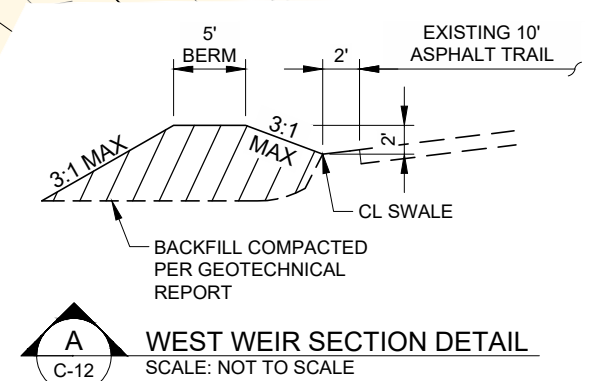


LEGEND

- - - EXIST. MINOR CONTOUR
- - - EXIST. MAJOR CONTOUR
- CATV (QL-D) - EXIST. CATV LINE
- E (QL-D) - EXIST. ELEC. LINE
- FO (QL-D) - EXIST. FIBER OPTIC LINE
- G (QL-D) - EXIST. GAS LINE
- W (QL-D) - EXIST. WATERLINE
- SS (QL-D) - EXIST. SANITARY SEWER
- EXIST. DROP INLET
- 5280- PROP. MAJOR CONTOUR
- - - PROP. MINOR CONTOUR
- == EXIST. STORM DRAIN
- == PROP. STORM DRAIN
- - - PROPERTY LINES
- · · - LIMIT OF GRADING
- X - CONSTRUCTION FENCE
- O - 5 STRAND FENCE
- □ - POST AND CABLE FENCE
- CLASS A RIPRAP
- SUBSURFACE CLASS A RIPRAP
- CLASS B RIPRAP
- CLASS H RIPRAP
- GRAVEL MULCH
- BASE COURSE ACCESS ROAD
- SHOTCRETE
- SUBSURFACE SHOTCRETE
- REINFORCED CONCRETE
- SEEDING

KEYED NOTES

1. BUILD 5' WIDE EARTHEN DRAINAGE BERM, SEE SECTION A THIS SHEET.
2. REMOVE AND DISPOSE EXISTING CONCRETE RUNDOWN AND SIDEWALL.
3. SAW CUT EXISTING CONCRETE PAD AT EDGE OF 18" CONCRETE WALL. REMOVE AND DISPOSE OF EXISTING 18" WALL.
4. BUILD OVERFLOW WEIR, SEE SECTION B THIS SHEET.
5. INSTALL TYPE H RIPRAP PER APWA SECTION 109, 3 FT THICK WITH GEOTEXTILE.
6. PRESERVE EXISTING MUNICIPAL WELL DISCHARGE PIPE.
7. INSTALL 8" THICK SHOTCRETE LINING PER AMAFCA STD DETAIL C102S, SEE SHEET C-509.
8. TIE NEW SHOTCRETE TO EXISTING CONCRETE PAD PER DETAIL C102S, SEE SHEET C-509.
9. INSTALL 75 LF PEDESTRIAN RAIL PER NMDOT STD DTL 606-20, SEE SHEETS C-510 AND C-511.



Point #	Desc.	Elevation	Northing	Easting
300	FG	5289.77	1538258.119	1506506.137
301	FG	5303.00	1538228.823	1506473.795
302	FG	5288.00	1538284.805	1506512.431
303	FG	5303.00	1538314.464	1506480.398
304	FG	5288.00	1538262.118	1506500.620
305	FG	5288.00	1538273.664	1506500.278
306	FG	5300.30	1538306.024	1506460.979
307	FG	5301.10	1538226.132	1506461.632
309	FG	5288.00	1538278.401	1506575.502
310	FG	5288.00	1538229.612	1506537.634
311	FG	5288.00	1538260.291	1506511.509
312	FG	5288.00	1538254.388	1506512.460
313	FG	5288.00	1538267.759	1506578.846
314	FG	5293.00	1538214.554	1506532.455
315	FG	5293.00	1538200.057	1506537.102
317	FG	5293.00	1538289.917	1506584.865
318	FG	5293.00	1538287.220	1506597.616
319	FG	5289.50	1538261.466	1506590.606
320	FG	5295.00	1538311.572	1506584.405
321	FG	5303.00	1538225.805	1506477.782

Point #	Desc.	Elevation	Northing	Easting
322	FG	5303.00	1538223.583	1506476.093
323	FG	5302.99	1538224.856	1506471.354
324	FG	5302.99	1538317.682	1506483.588
325	FG	5288.00	1538284.728	1506507.754
326	FG	5299.00	1538305.879	1506482.349
327	FG	5303.00	1538328.665	1506469.237
328	FG	5303.00	1538331.056	1506474.416
329	FG	5305.50	1538501.374	1506521.918
330	FG	5305.30	1538497.775	1506525.389
333	FG	5289.50	1538223.295	1506557.545
334	FG	5289.50	1538229.878	1506549.990
335	FG	5300.94	1538309.107	1506486.382
336	FG	5303.00	1538147.571	1506461.699
337	FG	5302.15	1538146.210	1506466.681
338	FG	5303.40	1538375.807	1506470.181
339	FG	5304.57	1538426.021	1506477.158
340	FG	5288.50	1538266.306	1506581.559
341	FG	5288.00	1538234.715	1506549.742
342	FG	5289.97	1538168.747	1506536.275
343	FG	5290.00	1538166.411	1506566.128



NO.	DESCRIPTION	DATE	BY
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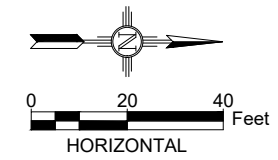


PROJECT DESCRIPTION
SSCAFCA RIPARIA PONDS
SHEET TITLE
WEST RUNDOWN CONFLUENCE
DETAIL



PROJECT NO: BL_P0001-03
DESIGNED BY: WHP
DRAWN BY: WHP
CHECKED BY: WHP
DATE: 2-6-23
DPI CHK:
SHEET NO.
C - 12

FINAL PLAN SIZE - 22x34





LEGEND

- EXIST. MINOR CONTOUR
- EXIST. MAJOR CONTOUR
- CATV (QL-D)- EXIST. CATV LINE
- E (QL-D)- EXIST. ELEC. LINE
- FO (QL-D)- EXIST. FIBER OPTIC LINE
- G (QL-D)- EXIST. GAS LINE
- W (QL-D)- EXIST. WATERLINE
- SS (QL-D)- EXIST. SANITARY SEWER
- ⊠ EXIST. DROP INLET
- 5280- PROP. MAJOR CONTOUR
- PROP. MINOR CONTOUR
- === EXIST. STORM DRAIN
- PROP. STORM DRAIN
- PROPERTY LINES
- · · - LIMIT OF GRADING
- X - CONSTRUCTION FENCE
- 5 STRAND FENCE
- POST AND CABLE FENCE
- CLASS A RIPRAP
- SUBSURFACE CLASS A RIPRAP
- CLASS B RIPRAP
- CLASS H RIPRAP
- GRAVEL MULCH
- BASE COURSE ACCESS ROAD
- SHOTCRETE
- SUBSURFACE SHOTCRETE
- REINFORCED CONCRETE
- SEEDING

NO.	DESCRIPTION	DATE	BY
7			
6			
5			
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1			

WHPacific
AN NV15 COMPANY

KEYED NOTES

- CONCRETE CHANNEL LINING PER AMAFCA STD. DETAIL # 102 WITH 4,000 PSI AIR ENTRAINED PORTLAND CEMENT CONCRETE, TINED FINISH, SAN DIEGO BUFF COLOR. CHANNEL REINFORCEMENT PER SHEET C-507.

Point Table

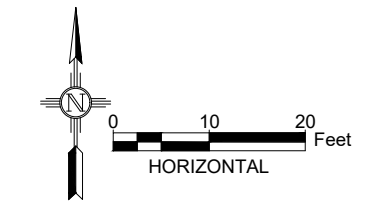
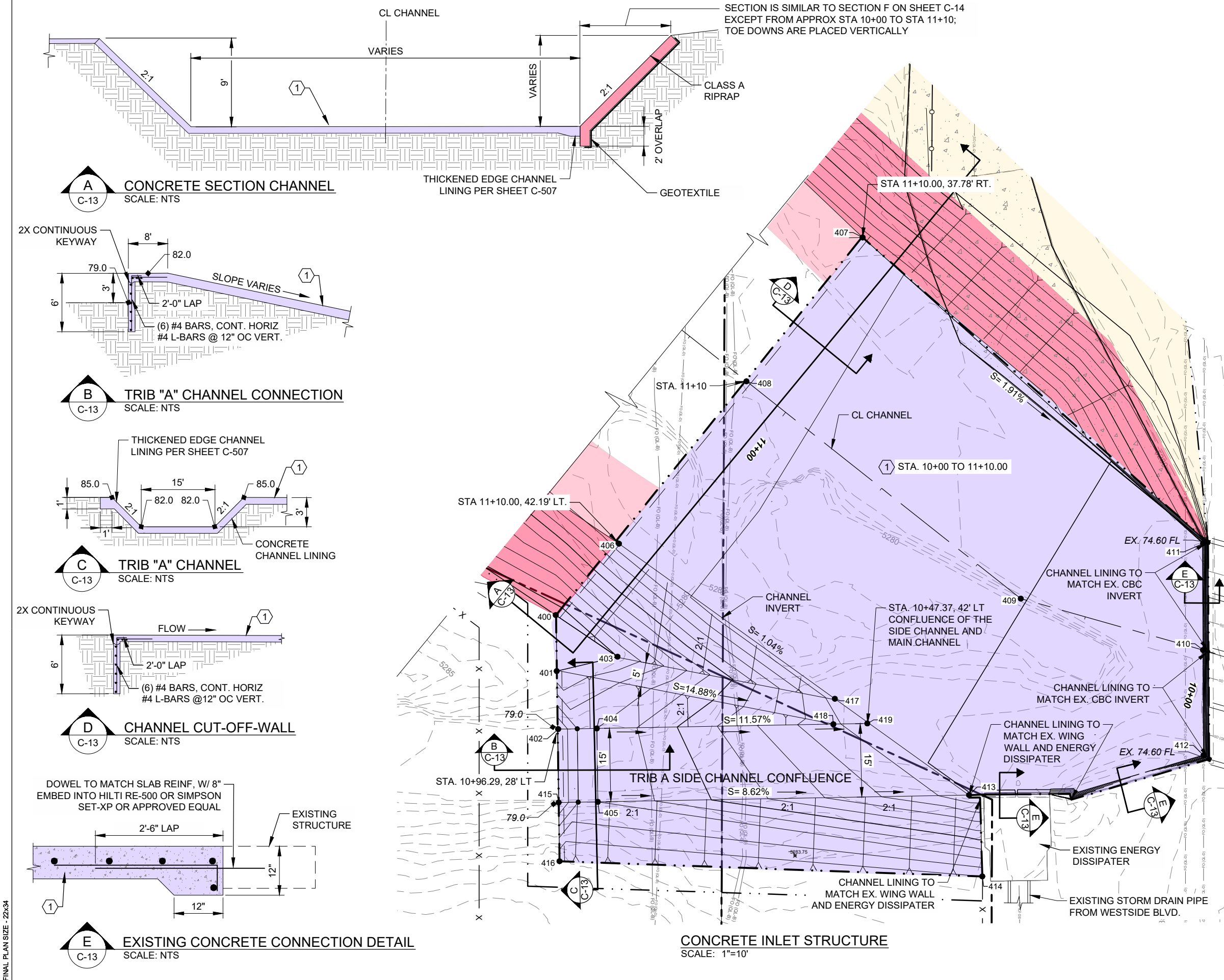
Point #	Raw Description	Elevation	Northing	Easting
400	FG	5285.00	1537818.649	1506975.042
401	FG	5285.00	1537807.186	1506975.228
402	FG	5280.06	1537795.337	1506975.538
403	FG	5285.00	1537810.135	1506987.655
404	FG	5282.00	1537795.482	1506983.417
405	FG	5282.00	1537780.451	1506983.633
406	FG	5276.39	1537833.245	1506987.958
407	FG	5276.39	1537895.828	1507037.737
408	FG	5276.40	1537866.427	1507013.999
409	FG	5275.05	1537822.015	1507070.053
410	FG	5274.97	1537811.498	1507107.282
411	FG	5276.00	1537833.301	1507107.286
412	FG	5275.00	1537790.017	1507107.389
413	FG	5275.41	1537781.859	1507059.480
414	FG	5284.00	1537765.230	1507062.178
415	FG	5280.00	1537780.339	1506975.634
416	FG	5285.00	1537768.340	1506975.806
417	FG	5275.68	1537801.544	1507032.061
418	FG	5276.43	1537795.345	1507031.748
419	FG	5275.61	1537796.488	1507038.691

PROJECT DESCRIPTION
SSCAFCFA RIPARIA PONDS

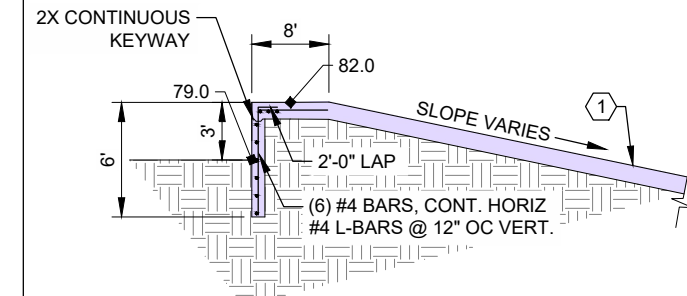
SHEET TITLE
CONCRETE INLET TRANSITION STRUCTURE



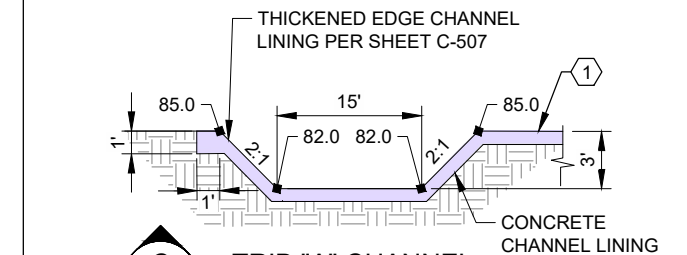
PROJECT NO: BL_P0001-03
DESIGNED BY: WHP
DRAWN BY: WHP
CHECKED BY: WHP
DATE: 2-6-23
DPI CHK:
SHEET NO.
C - 13



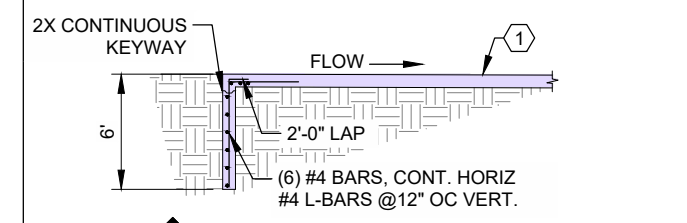
A CONCRETE SECTION CHANNEL
SCALE: NTS



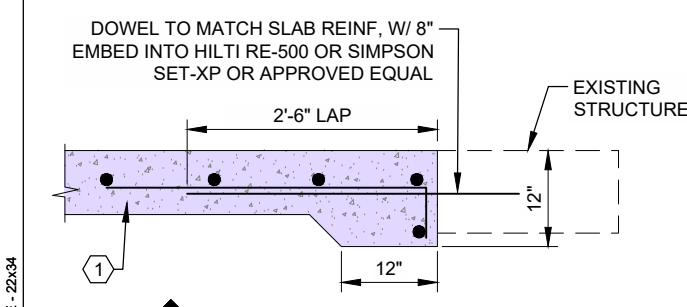
B TRIB "A" CHANNEL CONNECTION
SCALE: NTS



C TRIB "A" CHANNEL
SCALE: NTS

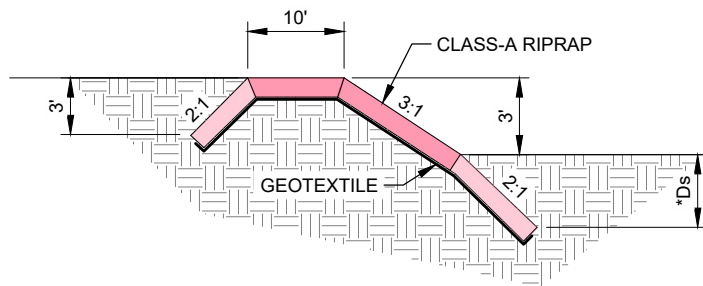


D CHANNEL CUT-OFF-WALL
SCALE: NTS



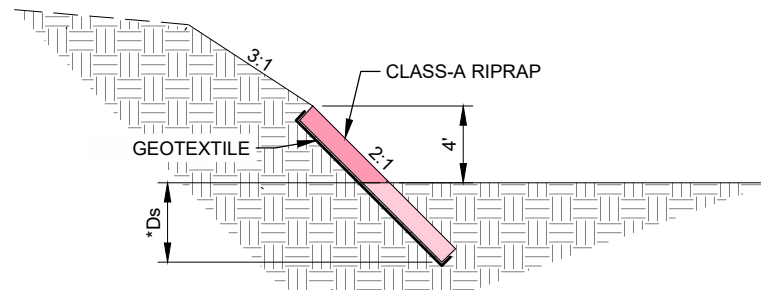
E EXISTING CONCRETE CONNECTION DETAIL
SCALE: NTS

FINAL PLAN SIZE - 22x34



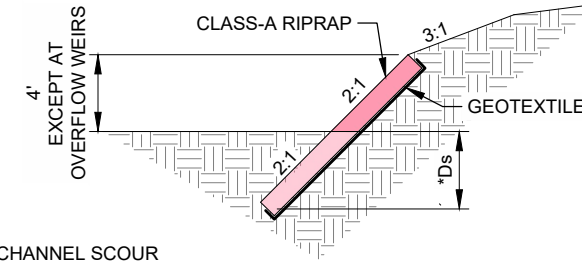
*SEE SCOUR DEPTH TABLE

D
C-2 WEST BANK CHANNEL
SCALE: NTS



* SEE CHANNEL SCOUR DEPTH TABLE

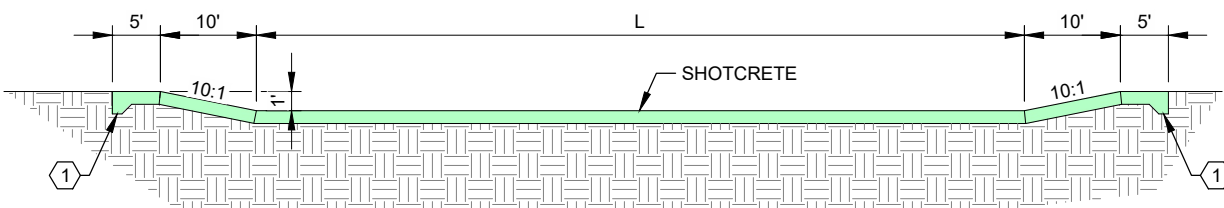
E
C-2 WEST BANK CHANNEL SECTION
SCALE: NTS



* SEE CHANNEL SCOUR DEPTH TABLE

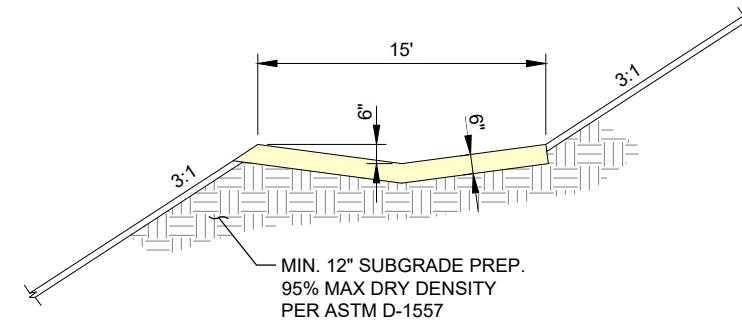
F
C-2 EAST BANK CHANNEL SECTION
SCALE: NTS

CHANNEL SCOUR DEPTH TABLE				
STATION TO STATION	LOCATION	DESCRIPTION	*Ds-SCOUR DEPTH (FT)	
LEFT SECTION				
STA. 11+10	STA/ 13+40	LT	SIDE WALL	7
STA. 13+40	STA. 17+36	LT	SIDE WALL	3
STA. 17+36	STA. 20+40	LT	SIDE WALL	3
STA. 20+40	STA. 23+38	LT	SIDE WALL	3
STA. 23+38	END	LT	SIDE WALL	3
RIGHT SECTION				
STA. 11+10	STA. 13+40	RT	SIDE WALL	6
STA. 13+40	STA. 17+36	RT	SIDE WALL	3
STA. 17+36	STA. 20+40	RT	SIDE WALL	3
STA. 20+40	STA. 23+38	RT	SIDE WALL	3
STA. 23+38	END	RT	SIDE WALL	3

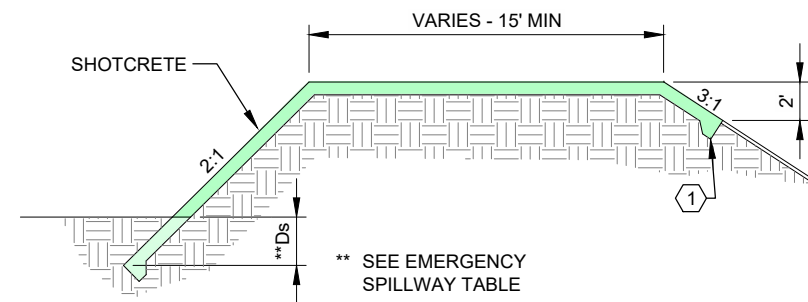


H
C-5,6,7 TYPICAL POND EMERGENCY SPILLWAY
SCALE: NTS

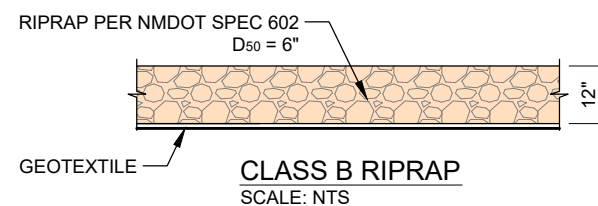
EMERGENCY SPILLWAY WEIR LENGTHS - SCOUR DEPTH			
	WEIR ELEVATION (FT)	LENGTH (L) (FT)	**Ds - SCOUR DEPTH (FT)
POND #3	5305.0	165	4.0
POND #2	5299.0	50	3.0
POND #1	5295.0	50	3.0



G
C-6 MAINTENANCE ACCESS RAMP BASE COURSE
SCALE: NTS



I
C-5,6,7 TYPICAL POND EMERGENCY SPILLWAY
SCALE: NTS



LEGEND

- CLASS A RIPRAP
- SUBSURFACE CLASS A RIPRAP
- CLASS B RIPRAP
- CLASS H RIPRAP
- GRAVEL MULCH
- BASE COURSE ACCESS ROAD
- SHOTCRETE
- SUBSURFACE SHOTCRETE
- REINFORCED CONCRETE
- SEEDING

KEYED NOTES

1. CONSTRUCT 1'X1' THICKENED EDGE, PER DETAIL SHEET C-509.



NO.	DESCRIPTION	DATE	BY
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PROJECT DESCRIPTION
SSCAFCFA RIPARIA PONDS
CHANNEL AND EMERGENCY SPILLWAY DETAILS



PROJECT NO: BL_P0001-03
DESIGNED BY: WHP
DRAWN BY: WHP
CHECKED BY: WHP
DATE: 2-6-23
DPI CHK:

SHEET NO.
C - 14

FINAL PLAN SIZE - 22x34



LEGEND

- CLASS A RIPRAP
- SUBSURFACE CLASS A RIPRAP
- CLASS B RIPRAP
- CLASS H RIPRAP
- GRAVEL MULCH
- BASE COURSE ACCESS ROAD
- SHOTCRETE
- SUBSURFACE SHOTCRETE
- REINFORCED CONCRETE
- SEEDING

KEYED NOTES

1. SPOT ELEVATIONS FOR CONNECTIONS TO EAST AND WEST EMBANKMENTS. ELEVATIONS FOR EACH STRUCTURE AND ARE SHOWN ON SHEETS C-5, C-6 AND C-7.

NO.	DESCRIPTION	DATE	BY
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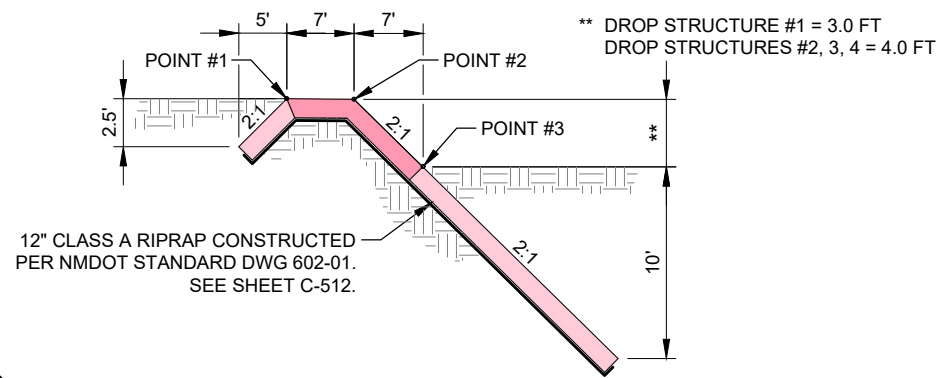


PROJECT DESCRIPTION
SSCAFCA RIPARIA PONDS
 SHEET TITLE
DROP STRUCTURE DETAIL

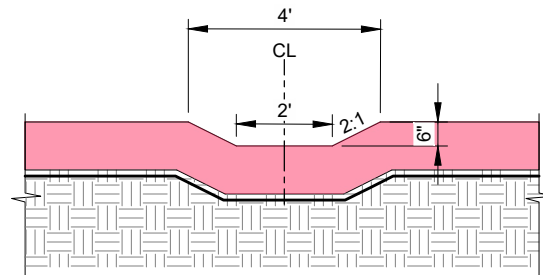


PROJECT NO: BL_P0001-03
 DESIGNED BY: WHP
 DRAWN BY: WHP
 CHECKED BY: WHP
 DATE: 2-6-23
 DPI CHK:

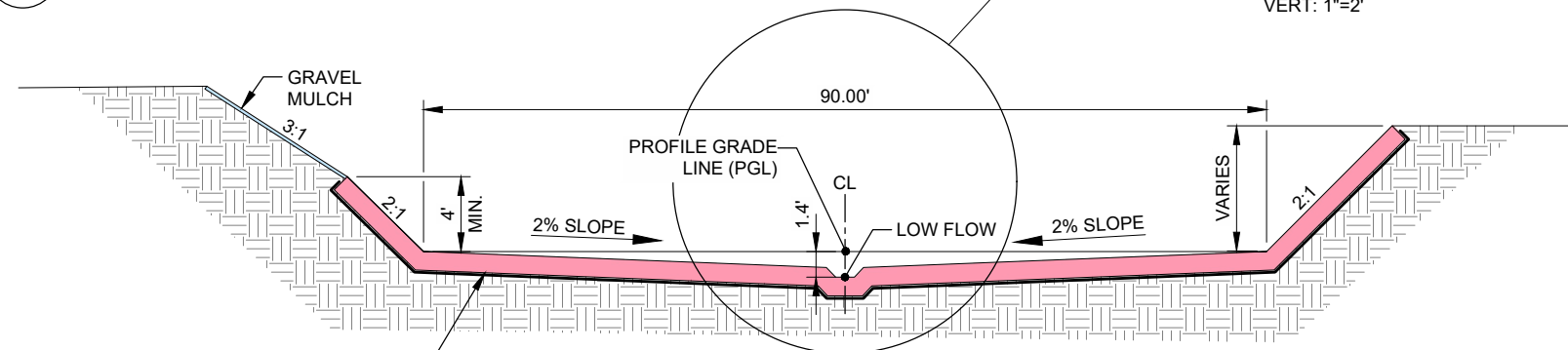
SHEET NO.
C - 15



C TYPICAL DROP STRUCTURE SECTION
SCALE: NTS

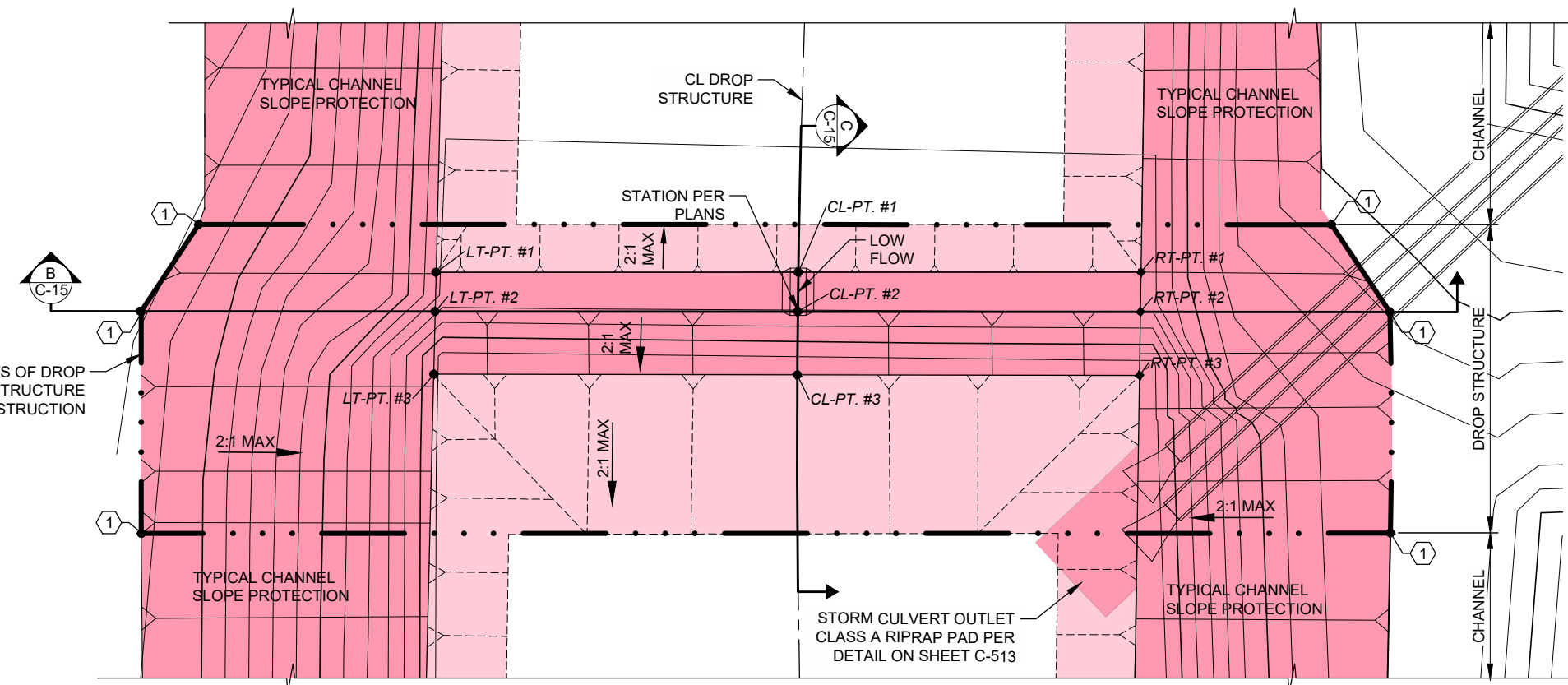


LOW FLOW SECTION
SCALE: HORIZ: 1"=2'
VERT: 1"=2'



B TYPICAL DROP STRUCTURE SECTION
SCALE: HORIZ: 1"=10'
VERT: 1"=5'

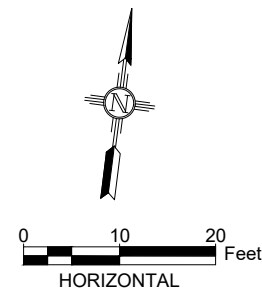
* CLASS A RIPRAP WILL BE CONSTRUCTED PER NMDOT STANDARD DWG: 602-01. SEE SHEET C-512.

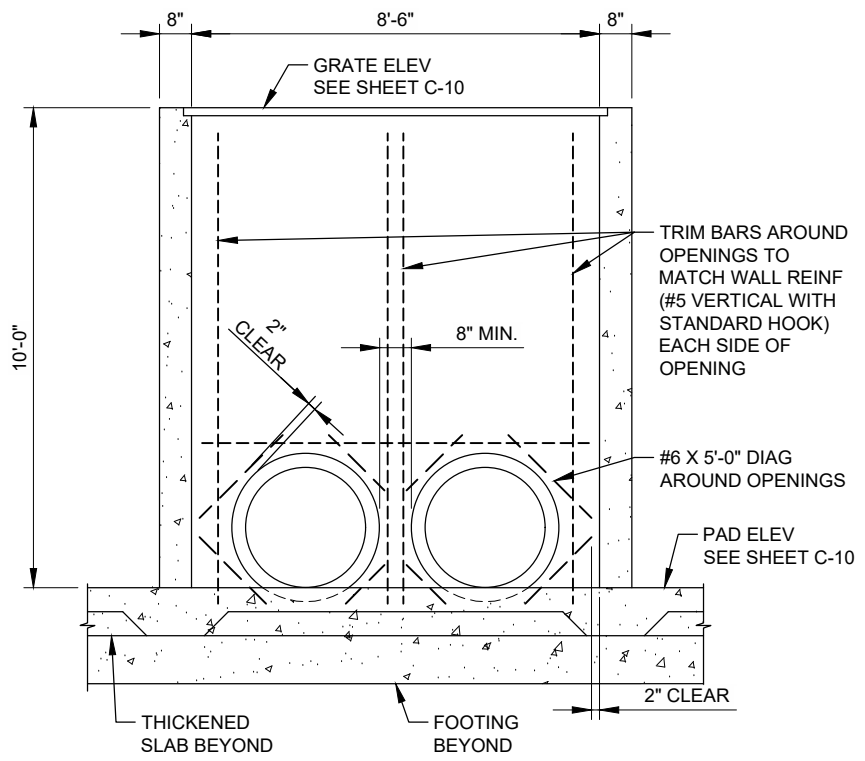


TYPICAL CHANNEL DROP STRUCTURE
SCALE: 1"=10'

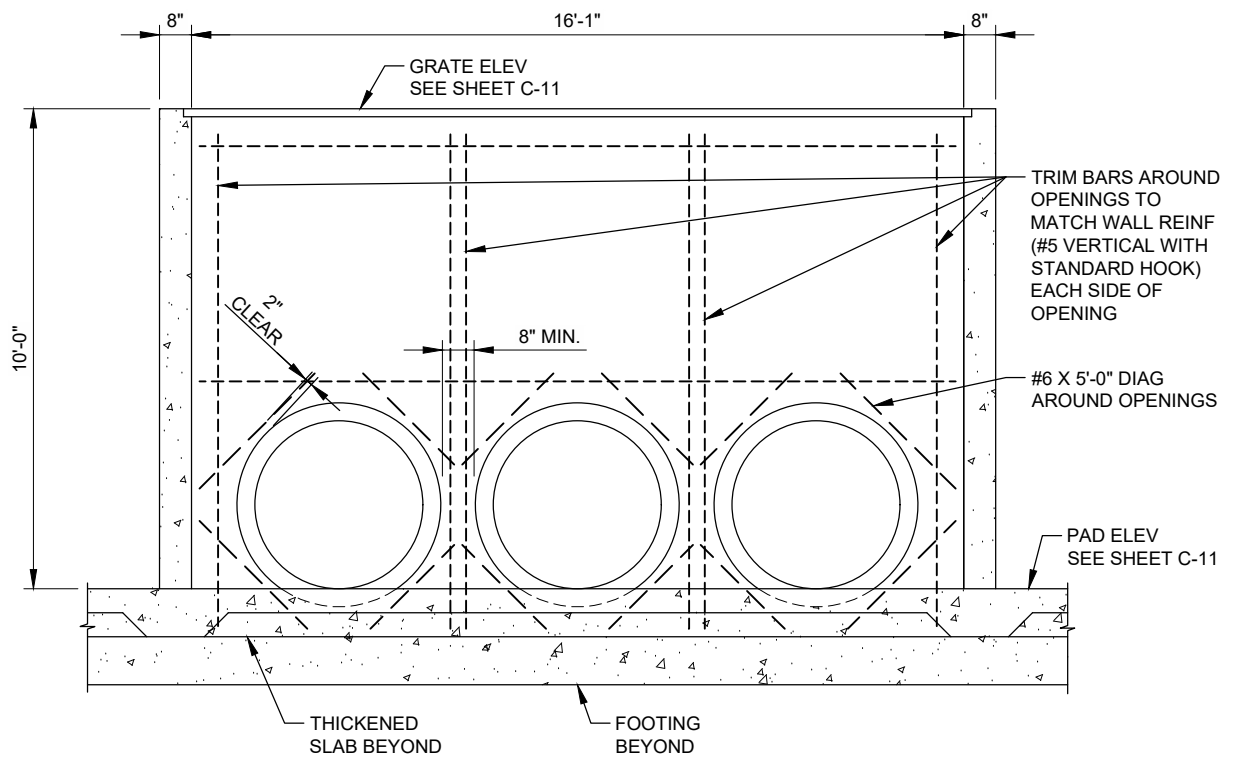
NOTE: PROPOSED CONTOURS ARE ILLUSTRATIVE OF DROP STRUCTURES. SEE SHEETS C-5, C-6 AND C-7 FOR CONTOURS AND SITE SPECIFIC ELEVATIONS.

DROP STRUCTURE ELEVATION					
DROP #	STATION	POINT	LT	CL	RT
#1	STA . 13+40	1	5282.70	5282.20	5282.70
		2	5282.70	5282.20	5282.70
		3	5279.70	5279.70	5279.70
#2	STA . 17+36	1	5291.09	5290.59	5291.09
		2	5291.09	5290.59	5291.09
		3	5287.09	5287.09	5287.09
#3	STA . 20+40	1	5297.93	5297.43	5297.93
		2	5297.93	5297.43	5297.93
		3	5293.93	5297.93	5293.93
#4	STA . 23+38	1	5304.78	5304.28	5304.78
		2	5304.78	5304.28	5304.78
		3	5300.78	5300.78	5300.78

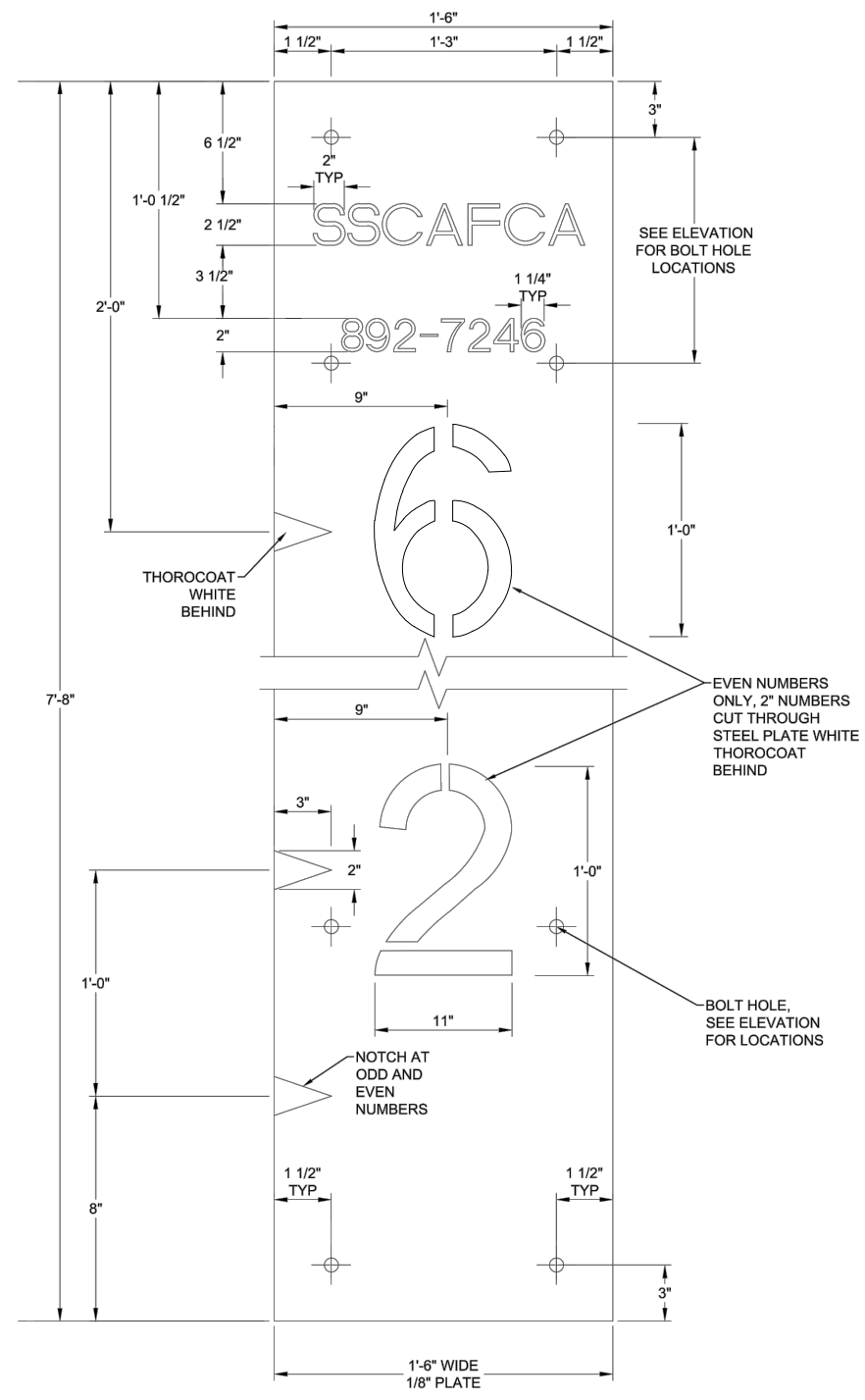




C
C-501 **8'-6" x 8'-0" WATER QUALITY STRUCTURE**
SCALE: HORIZ: 1"=2'
VERT: 1"=2'



C
C-501 **16'-1" x 8'-0" WATER QUALITY STRUCTURE**
SCALE: HORIZ: 1"=2'
VERT: 1"=2'



SEDIMENT STAGE MARKER DETAIL
N.T.S.

GENERAL NOTES

1. PORTED RISER TO BE CONSTRUCTED PER COA STD MODIFIED DETAIL FOR PORTED RISERS. SEE SHEETS C-501 TO C-503.
2. ALL CONCRETE TO BE 4500 PSI MIN., AIR ENTRAINED (REPLACING CONC. STRENGTH SHOWN ON SHEET C-502).
3. SEE C-501 FOR ADDITIONAL REINFORCING.



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PROJECT DESCRIPTION
SSCAFCFA RIPARIA PONDS

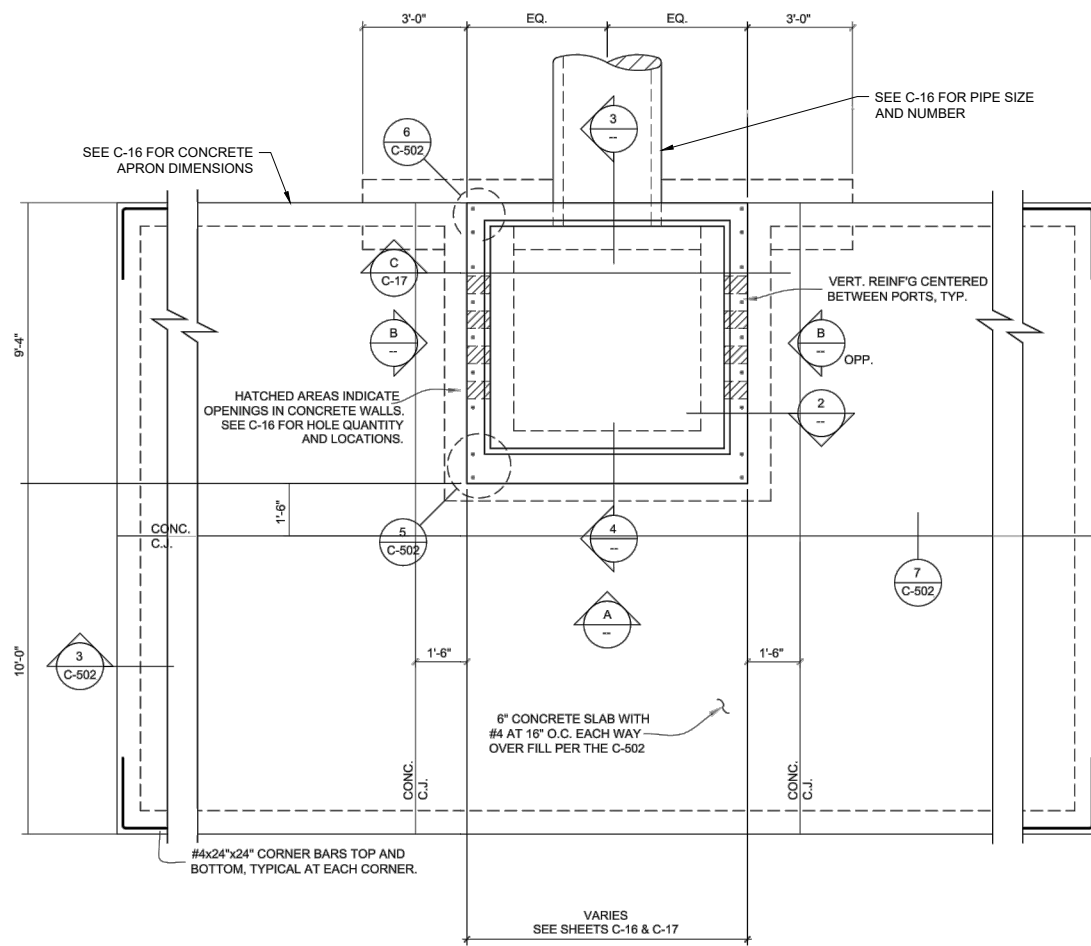
SHEET TITLE
PORTED RISER SECTIONS



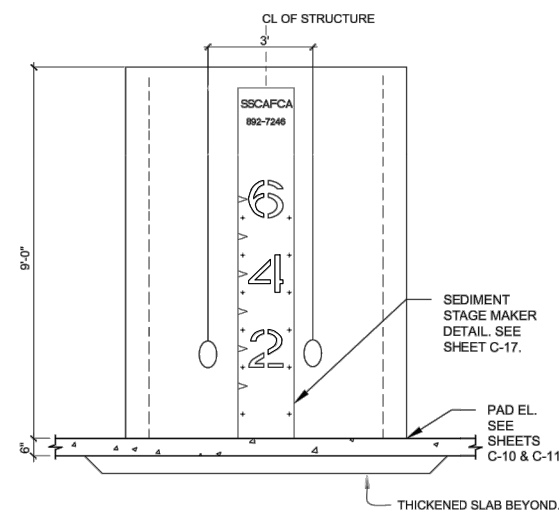
PROJECT NO: BL_P0001-03
DESIGNED BY: WHP
DRAWN BY: WHP
CHECKED BY: WHP
DATE: 2-6-23
DPI CHK:

SHEET NO.
C - 17

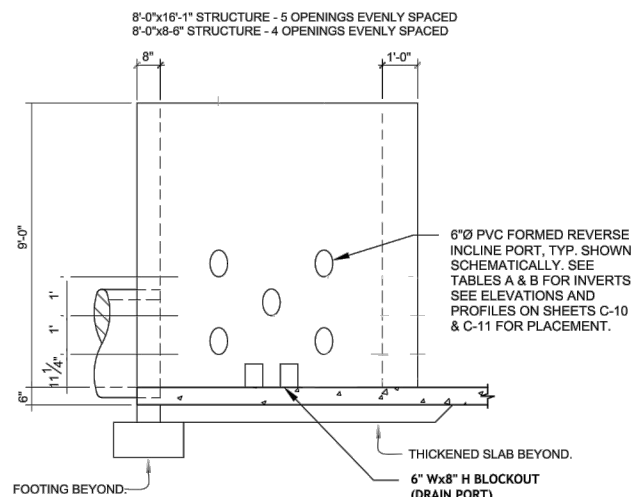
FINAL PLAN SIZE - 22x34



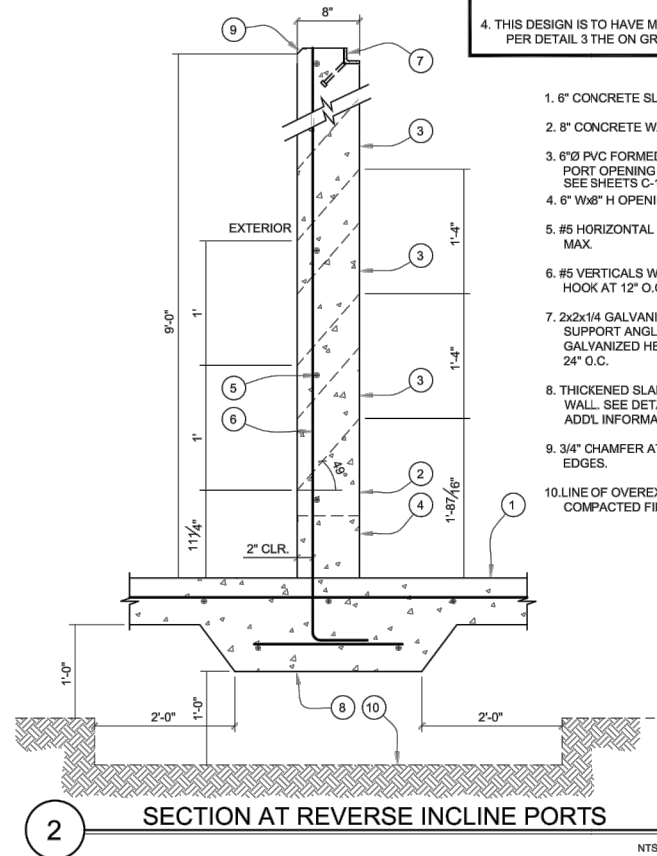
PLAN VIEW



ELEVATION A



ELEVATION B



SECTION 2 AT REVERSE INCLINE PORTS

TABLE A
8'-6" x 8'-0" WATER QUALITY STRUCTURE - PORT ELEVATION

ROW	INVERT ELEVATION AT PORTS
ROW 4	5299.75
ROW 3	5298.41
ROW 2	5297.08
ROW 1	5295.75

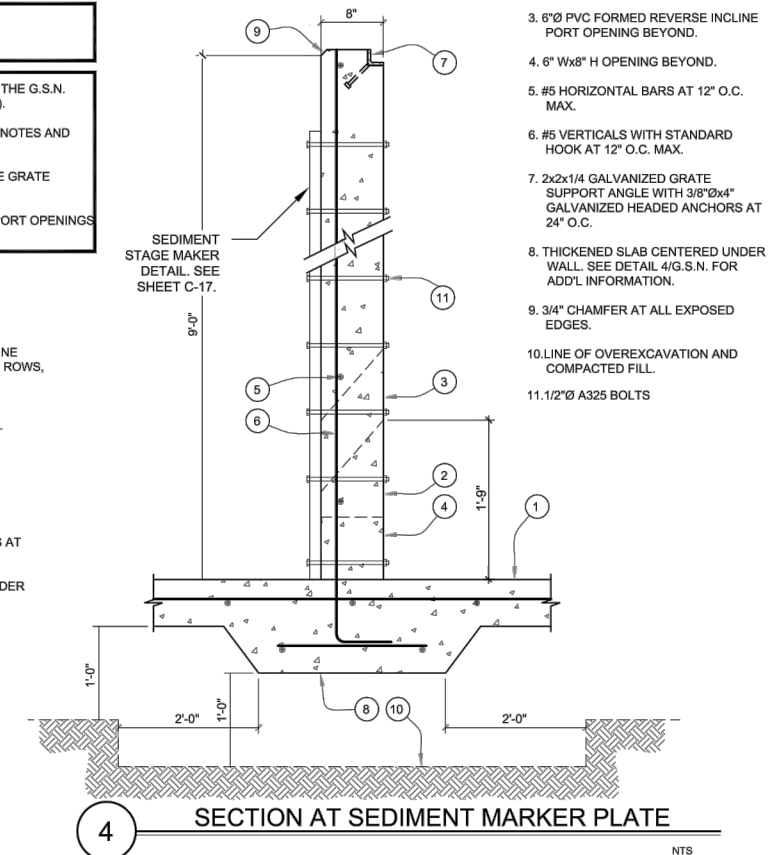
TABLE B
16'-1" x 8'-0" WATER QUALITY STRUCTURE - PORT ELEVATION

ROW	INVERT ELEVATION AT PORTS
ROW 5	5301.08
ROW 4	5299.75
ROW 3	5298.41
ROW 2	5297.08
ROW 1	5295.75

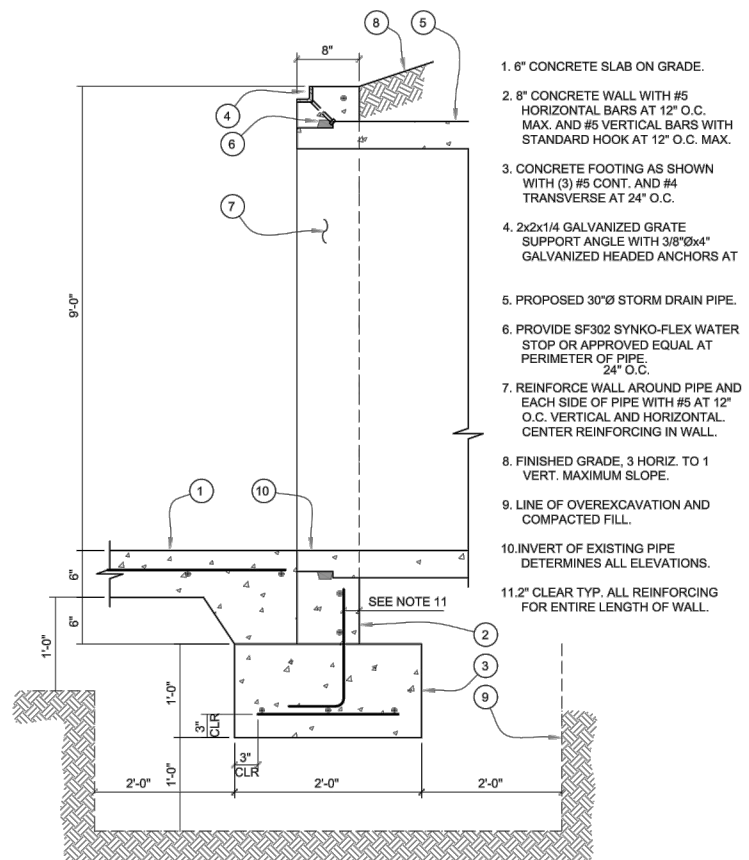
NOTES:

- THIS DESIGN IS TO BE ISSUED ALONG WITH THE G.S.N. SHEET (C-502) AND GRATES SHEET (C-503).
- SEE C-502 FOR THE GENERAL STRUCTURAL NOTES AND TYPICAL DETAILS.
- THIS DESIGN IS TO HAVE THE APPROPRIATE GRATE COVER INSTALLED.
- THIS DESIGN IS TO HAVE MESH OVER ALL PORT OPENINGS PER DETAIL 3 THE ON GRATES SHEET.

- 6" CONCRETE SLAB ON GRADE.
- 8" CONCRETE WALL.
- 6"Ø PVC FORMED REVERSE INCLINE PORT OPENING BEYOND. 4 OR 5 ROWS, SEE SHEETS C-10 & C-11.
- 6" Wx8" H OPENING BEYOND.
- #5 HORIZONTAL BARS AT 12" O.C. MAX.
- #5 VERTICALS WITH STANDARD HOOK AT 12" O.C. MAX.
- 2x2x1/4 GALVANIZED GRATE SUPPORT ANGLE WITH 3/8"Øx4" GALVANIZED HEADED ANCHORS AT 24" O.C.
- THICKENED SLAB CENTERED UNDER WALL. SEE DETAIL 4/G.S.N. FOR ADDL INFORMATION.
- 3/4" CHAMFER AT ALL EXPOSED EDGES.
- LINE OF OVEREXCAVATION AND COMPACTED FILL.



SECTION 4 AT SEDIMENT MARKER PLATE



SECTION 3 AT REINFORCED CONCRETE PIPE

- 6" CONCRETE SLAB ON GRADE.
- 8" CONCRETE WALL.
- 6"Ø PVC FORMED REVERSE INCLINE PORT OPENING BEYOND.
- 6" Wx8" H OPENING BEYOND.
- #5 HORIZONTAL BARS AT 12" O.C. MAX.
- #5 VERTICALS WITH STANDARD HOOK AT 12" O.C. MAX.
- 2x2x1/4 GALVANIZED GRATE SUPPORT ANGLE WITH 3/8"Øx4" GALVANIZED HEADED ANCHORS AT 24" O.C.
- THICKENED SLAB CENTERED UNDER WALL. SEE DETAIL 4/G.S.N. FOR ADDL INFORMATION.
- 3/4" CHAMFER AT ALL EXPOSED EDGES.
- LINE OF OVEREXCAVATION AND COMPACTED FILL.
- 1/2"Ø A325 BOLTS

- 6" CONCRETE SLAB ON GRADE.
- 8" CONCRETE WALL WITH #5 HORIZONTAL BARS AT 12" O.C. MAX. AND #5 VERTICAL BARS WITH STANDARD HOOK AT 12" O.C. MAX.
- CONCRETE FOOTING AS SHOWN WITH (3) #5 CONT. AND #4 TRANSVERSE AT 24" O.C.
- 2x2x1/4 GALVANIZED GRATE SUPPORT ANGLE WITH 3/8"Øx4" GALVANIZED HEADED ANCHORS AT 24" O.C.
- PROPOSED 30"Ø STORM DRAIN PIPE.
- PROVIDE SF302 SYNKO-FLEX WATER STOP OR APPROVED EQUAL AT PERIMETER OF PIPE.
- REINFORCE WALL AROUND PIPE AND EACH SIDE OF PIPE WITH #5 AT 12" O.C. VERTICAL AND HORIZONTAL. CENTER REINFORCING IN WALL.
- FINISHED GRADE, 3 HORIZ. TO 1 VERT. MAXIMUM SLOPE.
- LINE OF OVEREXCAVATION AND COMPACTED FILL.
- INVERT OF EXISTING PIPE DETERMINES ALL ELEVATIONS.
- 2" CLEAR TYP. ALL REINFORCING FOR ENTIRE LENGTH OF WALL.



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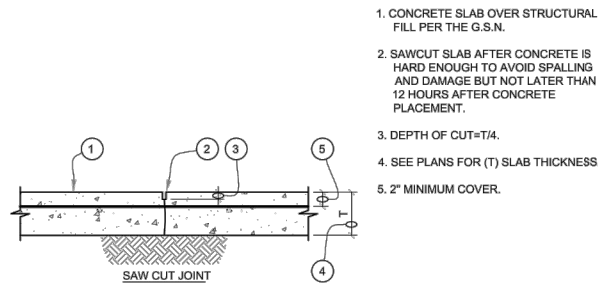


PROJECT DESCRIPTION
SSCAFCA RIPARIA PONDS

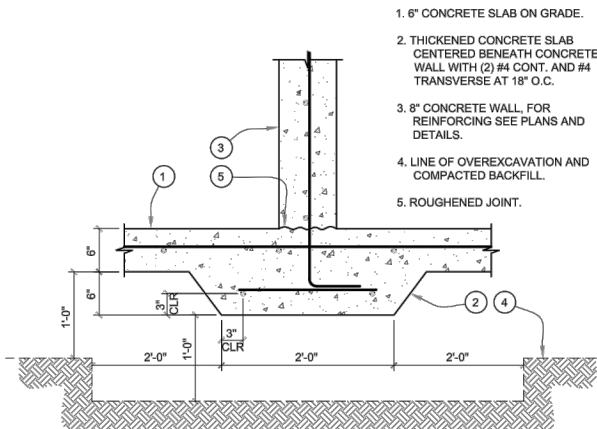
SHEET TITLE
PORTED RISER DETAIL 1



PROJECT NO: BL_P0001-03
DESIGNED BY: WHP
DRAWN BY: WHP
CHECKED BY: WHP
DATE: 2-6-23
DPI CHK:
SHEET NO.
C - 501



7 TYPICAL CONTRACTION JOINT IN SLAB
FN100

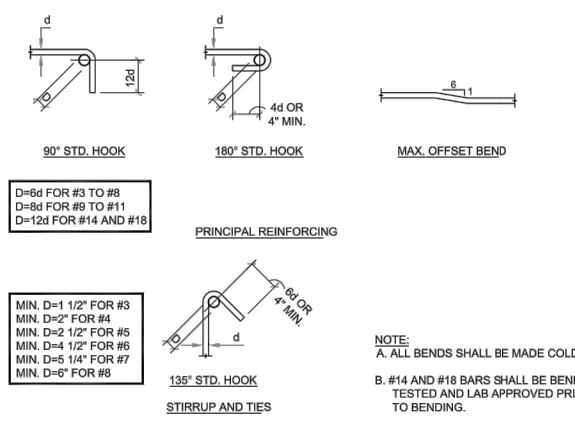


4 TYPICAL THICKENED SLAB AT WALL
M124

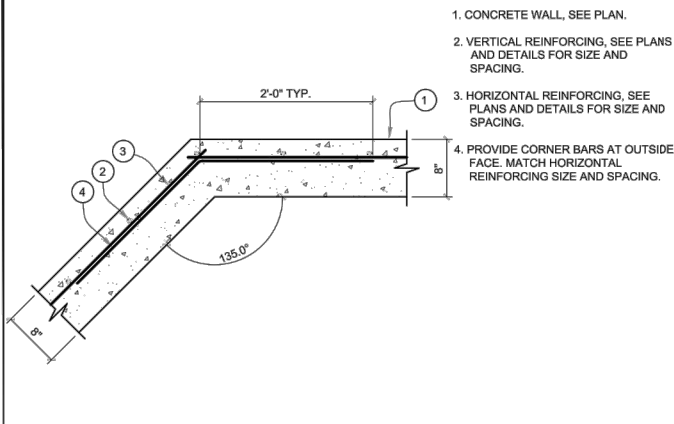
- TABULATED VALUES ARE BASED ON GRADE 60 UNCOATED REINFORCING BARS, NORMAL WEIGHT CONCRETE AND MIN. COVER OF $\frac{3}{4}$ " WITH MIN. CLEAR SPACING OF $\frac{3}{4}$ ".
- TENSION LAP SPLICES ARE CALCULATED PER ACI 318 SECTIONS 12.2 AND 12.15.
- TOP BARS ARE HORIZONTAL BARS WITH MORE THAN 12 INCHES OF CONCRETE CAST BELOW THE BARS.
- FOR GRADE 40 REINFORCING BARS MULTIPLY THE TABULATED VALUES BY 0.67 (12" MIN. LAP).
- FOR LIGHT WEIGHT CONCRETE MULTIPLY THE TABULATED VALUES BY 1.3.
- ALL LAP SPLICES ARE CLASS B SPLICES PER ACI 318 SECTION 12.15.

BAR SIZE	LENGTHS (IN.)					
	3000 PSI		4000 PSI		5000 PSI	
	TOP BARS	OTHER BARS	TOP BARS	OTHER BARS	TOP BARS	OTHER BARS
#3	28	21	24	18	22	17
#4	37	28	32	25	29	22
#5	46	36	40	31	36	28
#6	56	43	48	37	43	33
#7	61	48	54	43	48	36
#8	66	51	60	46	51	39
#9	71	54	66	49	54	42
#10	76	57	72	52	57	45
#11	81	60	78	55	60	48

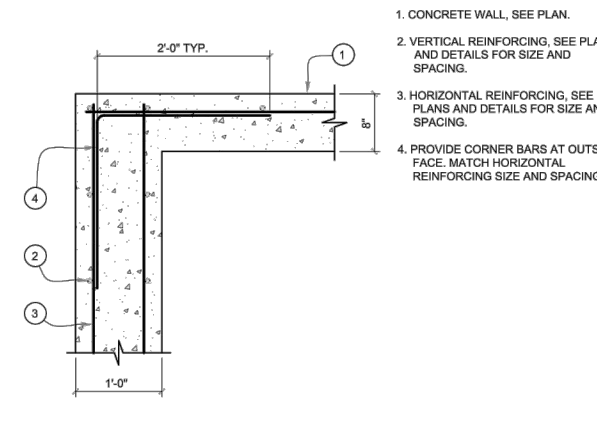
1 LAP-SPLICE SCHEDULE FOR CONC. REINF'G
C2



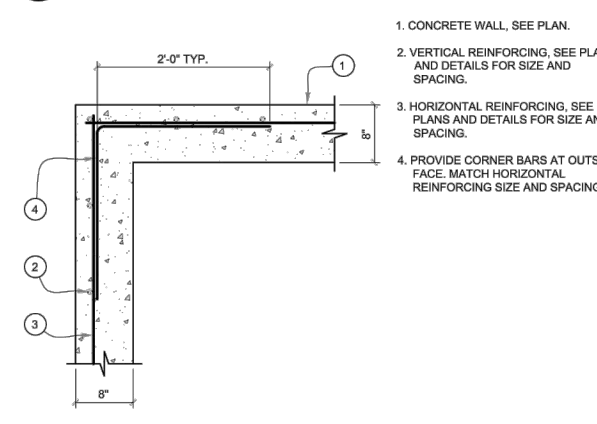
2 TYPICAL BAR BENDS
61



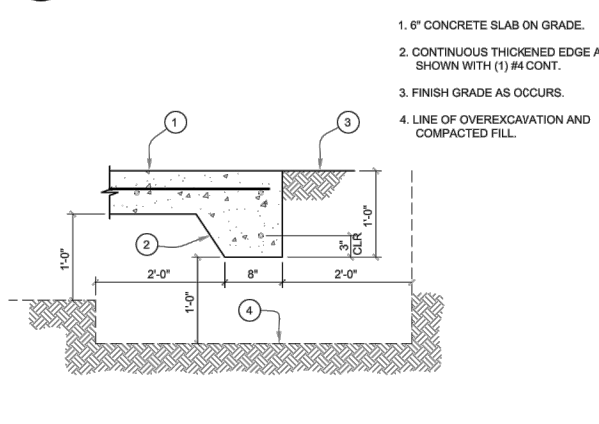
8 TYPICAL WALL CORNER DETAIL
117106-07D3



5 TYPICAL WALL CORNER DETAIL
117106-07D1



6 TYPICAL WALL CORNER DETAIL
117106-07D2



3 TYPICAL SLAB EDGE
FN118

GENERAL STRUCTURAL NOTES
APPLY UNLESS NOTED ON STRUCTURAL DRAWINGS. IN CASE OF CONFLICT BETWEEN GSN, DETAILS AND PLANS, THE GREATER REQUIREMENTS GOVERN.

DESIGN LOADS:
GRATE LIVE LOADS: 100 PSF

FOUNDATIONS:
FOOTINGS SHALL BEAR ON A MINIMUM OF 12 INCHES OF ADEQUATELY PLACED AND COMPACTED STRUCTURAL FILL. SOIL BENEATH FOOTINGS SHALL BE SCARIFIED TO A DEPTH OF 12 INCHES, MOISTURE CONDITIONED TO OPTIMUM MOISTURE CONTENT $\pm 2\%$ AND COMPACTED TO A MINIMUM OF 95% MAXIMUM DRY DENSITY AS DETERMINED IN ACCORDANCE WITH ASTM-D-698. ALL STRUCTURAL FILL SHALL BE CLASS 1 OR II SOILS IN ACCORDANCE WITH STD. SPEC. SEC. 501.
ALL EARTHWORK, FOOTING DEPTHS, AND EXCAVATIONS FOR FOUNDATIONS SHALL BE INSPECTED TO VERIFY ASSUMED ALLOWABLE SOIL BEARING AND LOW SETTLEMENT AND SWELL POTENTIAL. ASSUMED ALLOWABLE BEARING = 2000 PSF.

CONCRETE:
UNLESS NOTED OTHERWISE, CONCRETE SHALL BE IN ACCORDANCE WITH STD. SPEC. SEC. 510 AND SEC. 101 FOR HYDRAULIC CONCRETE WITH MIN. COMP. STRENGTH $F_c=4000$ PSI AT 28 DAYS. ALL REINFORCING STEEL SHALL BE BLACK, GRADE 60 CONFORMING TO ASTM A615.
MAXIMUM SLUMP: 4" - 7"
MAXIMUM AGGREGATE SIZE: 1"
AIR CONTENT: $8\% \pm 1 1/2\%$
MAXIMUM W/C RATIO: 0.45
FINISH SHALL BE ORDINARY SURFACE FINISH IN ACCORDANCE WITH STD. SPEC. SEC. 510.
MINIMUM STRENGTH FOR REMOVAL OF FORMS AND SHORING SHALL BE 75% OF SPECIFIED STRENGTH AT 28 DAYS.
BACKFILL (WHERE OCCURS) SHALL NOT BE PLACED BEHIND HEADWALLS UNTIL CONCRETE HAS ATTAINED 100% OF DESIGN STRENGTH.

REINFORCING:
LATEST ACI CODE AND DETAILING MANUAL APPLY. ALL REINFORCING BARS DEFORMED.
ALL REINFORCING SHALL BE ASTM A-615 GRADE 60.
CLEAR CONCRETE COVER TO REINFORCING ARE AS FOLLOWS, UNLESS NOTED OTHERWISE:
CAST AGAINST AND PERMANENTLY EXPOSED TO EARTH: 3"
EXPOSED TO EARTH OR WEATHER:
#6 THROUGH #18: 2"
#5 AND SMALLER: 1 1/2"
LAP SPLICES IN CONCRETE SHALL BE CLASS B TENSION LAPS PER DETAIL 1 THIS SHEET. SPLICE BOTTOM BAR OVER SUPPORTS AND TOP BAR AT MIDSPAN ONLY.
FOR TYPICAL BAR BENDS, SEE DETAIL 2 THIS SHEET.
PROVIDE SHOP DRAWINGS AND FABRICATE AFTER REVIEW. PLACE REBAR PER CRSI STANDARDS.
REBAR SPACING GIVEN IS MAXIMUM ON CENTER AND ALL REBAR IS CONTINUOUS UNLESS OTHERWISE NOTED. PROVIDE BENT CORNER REBAR TO MATCH AND LAP WITH HORIZONTAL REBARS AT CORNERS AND INTERSECTIONS OF WALLS. DOWEL ALL VERTICAL WALL REBAR TO FOUNDATIONS. SECURELY TIE ALL REBAR, INCLUDING DOWELS, IN LOCATION BEFORE PLACING CONCRETE.

STRUCTURAL STEEL:
FOR ALL STRUCTURAL STEEL FABRICATION AND CONSTRUCTION, STD. SPEC. SEC. 520, LATEST AISC HANDBOOKS AND CODES SHALL APPLY. ALL STEEL FABRICATION IS REQUIRED TO BE COMPLETED BY AN APPROVED STEEL FABRICATOR RECOGNIZED BY THE BUILDING DEPARTMENT.
ASTM A-36, EXCEPT AS FOLLOWS: WIDE FLANGE SECTIONS, ASTM A992 GRADE 50.
HIGH STRENGTH BOLTS, A-325-X OR A-325-SC.
WELDING:
ALL CONSTRUCTION AND TESTING PER AMERICAN WELDING SOCIETY CODES AND RECOMMENDATIONS. ALL WELDING SHALL BE BY WELDERS HOLDING CURRENT VALID CERTIFICATES AND HAVING CURRENT EXPERIENCE IN TYPE OF WELD CALLED FOR. WELDING RODS SHALL BE LOW HYDROGEN TYPE, E70.
ALL WELDING OF STRUCTURAL STEEL SHALL CONFORM TO THE "STRUCTURAL WELDING CODES-STEEL" AWS D1.1, CURRENT EDITION.

RECTANGULAR BAR GRATING:
MATERIAL DESIGN AND MANUFACTURE SHALL BE BY McNICOLS OR APPROVED EQUAL. PREFABRICATED RECTANGULAR BAR PANELS AS FOLLOWS:
MATERIAL: HOT-DIPPED GALVANIZED STEEL BEARING BARS AND 1/4" SQUARE GALVANIZED STEEL TWISTED CROSS BARS.
BEARING BAR SIZE: 3/16"x1 3/4"
BAR SPACING: 1 3/16" BEARING BAR CENTERS AND 4" CROSS BAR CENTERS.
NUMBER OF PANELS: 8'-0"x8'-0" = 3, 10'-0"x10'-0" = 4
PANEL LENGTH: 8'-0"x8'-0" = 6'-11", 10'-0"x10'-0" = 8'-11" (a)
PANEL WIDTHS: 8'-0"x8'-0" = (1) PANEL 32 1/4", (2) PANELS 25 1/8" (a)
10'-0"x10'-0" = (1) PANEL 32 1/4", (2) PANELS 25 1/8", (1) PANEL 23 15/16" (a)
WEIGHT: 12.5 LBS./SQ. FT. (a)
TOTAL WEIGHT: 8'-0"x8'-0" = 583.3 LBS., 10'-0"x10'-0" = 975.0 LBS. (a)
(a) CONTRACTOR TO VERIFY PANEL LENGTHS, WIDTHS AND WEIGHTS WITH ACTUAL FIELD MEASUREMENTS AND MANUFACTURER.

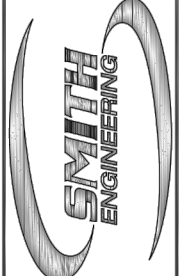


G.S.N. / TYPICAL DETAILS

NO.	REVISION DESCRIPTION	DATE	BY
1	ISSUED FOR CONSTRUCTION	3/26/19	CS
2	NO. REVISION DESCRIPTION	DATE	BY
3			
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CITY OF ALBUQUERQUE
PORTED RISER PRINCIPAL SPILLWAYS
GENERAL STRUCTURAL NOTES / TYPICAL DETAILS

Solutions for Today...
Vision for Tomorrow
2201 San Pedro Dr. NE
Building 4, Suite 200
Albuquerque, NM 87110
Phone: 505-884-0700
www.smithengineering.pro



PROJECT NO:
117106-07
DATE:
MARCH 2019
SHEET NO.
G.S.N.

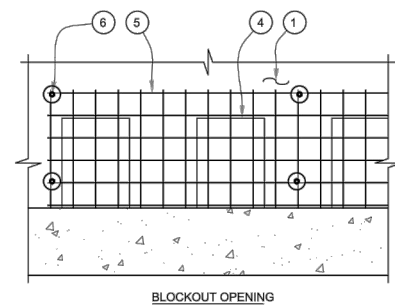
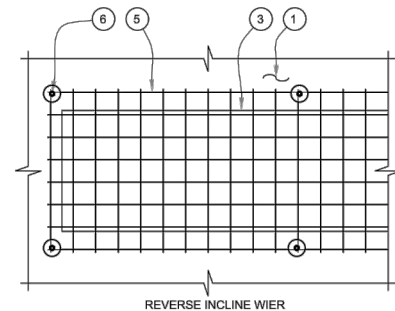
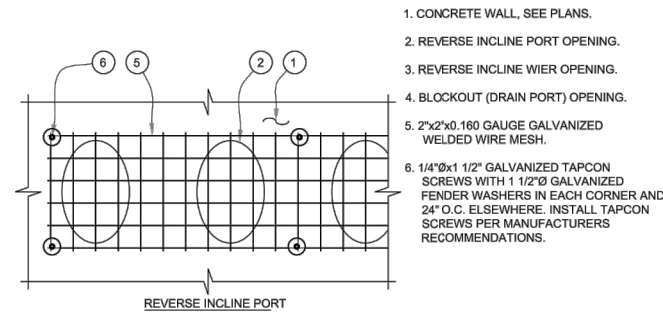


NO.	DESCRIPTION	DATE	BY
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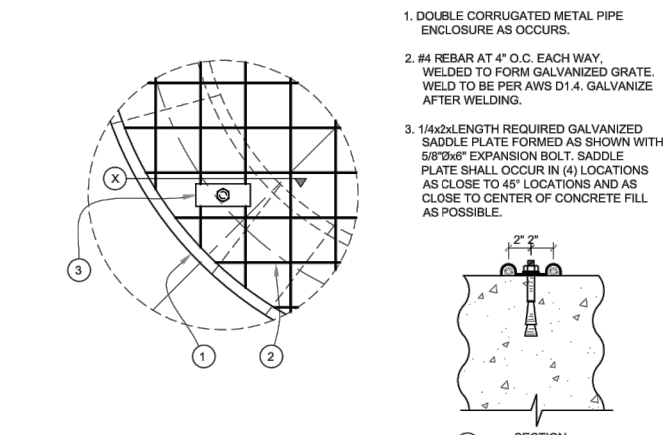


PROJECT DESCRIPTION
SSCAFCA RIPARIA PONDS
SHEET TITLE
PORTED RISER DETAIL 2

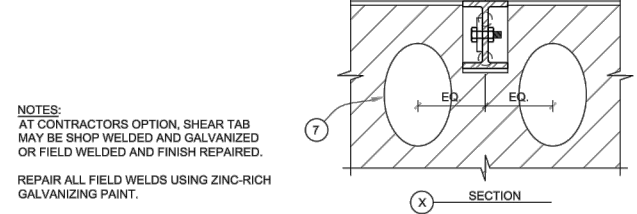
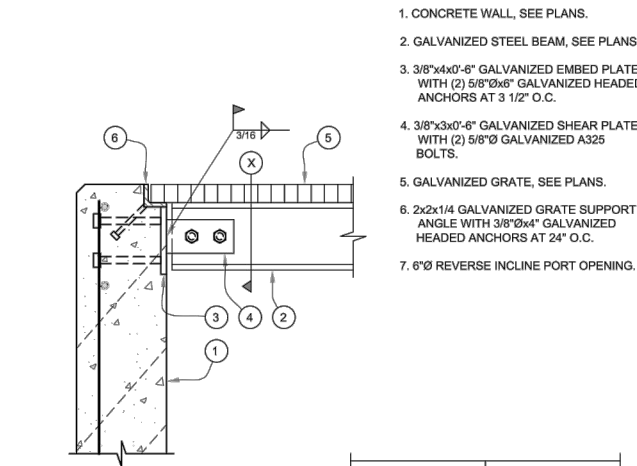
PROJECT NO: BL_P0001-03
DESIGNED BY: WHP
DRAWN BY: WHP
CHECKED BY: WHP
DATE: 2-6-23
DPI CHK:
SHEET NO.
C - 502



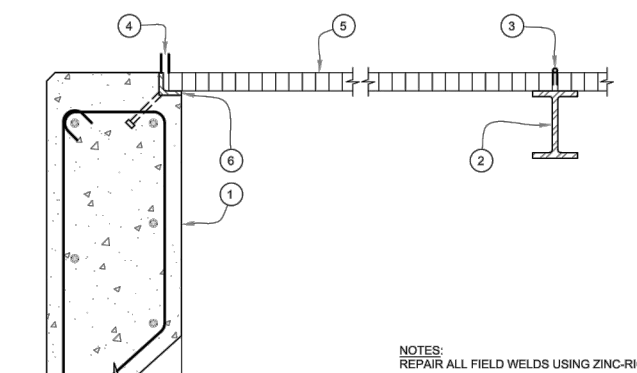
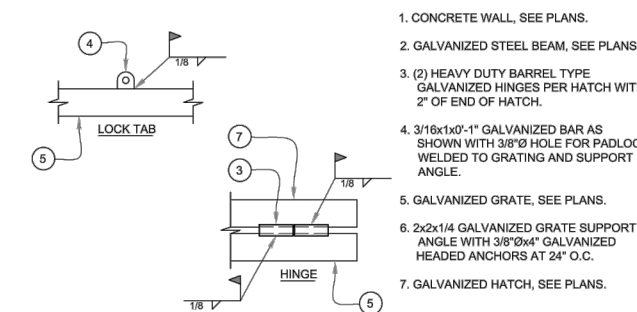
3 TYPICAL MESH AT OPENINGS
117106-07D12



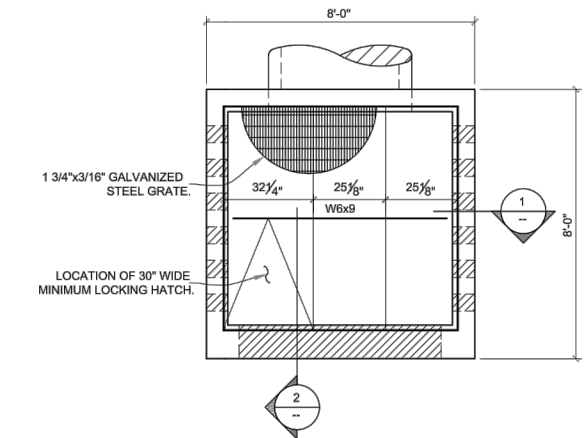
4 DETAIL AT GRATE SADDLE CLIP
117106-07D13



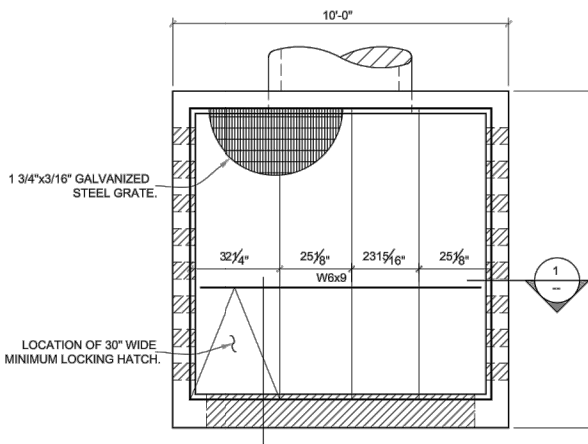
1 STEEL BEAM AT CONCRETE WALL
117106-07D10



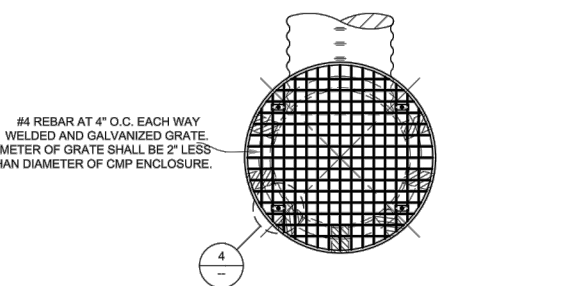
2 SECTION AT ACCESS HATCH
117106-07D11



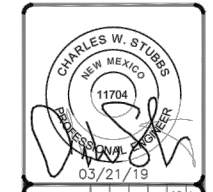
8'-0\"/>



8'-0\"/>



DOUBLE CMP GRATE PLAN VIEW
SCALE: 3/8\"/>



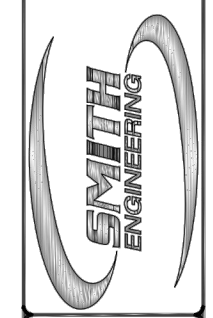
NO.	REVISION DESCRIPTION	DATE	BY
1	ISSUED FOR CONSTRUCTION	3/26/19	CS
2			
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GRATES / GRATE DETAILS

CITY OF ALBUQUERQUE
PORTED RISER PRINCIPAL SPILLWAYS

GRATING PLAN VIEWS / DETAILS

Solutions for Tomorrow...
Vision for Tomorrow
2201 San Pedro Dr NE
Albuquerque, NM 87110
Phone: 505-884-0700
www.smithengineering.pro



PROJECT NO:
117106-07
DATE:
MARCH 2019
SHEET NO:
GRATES



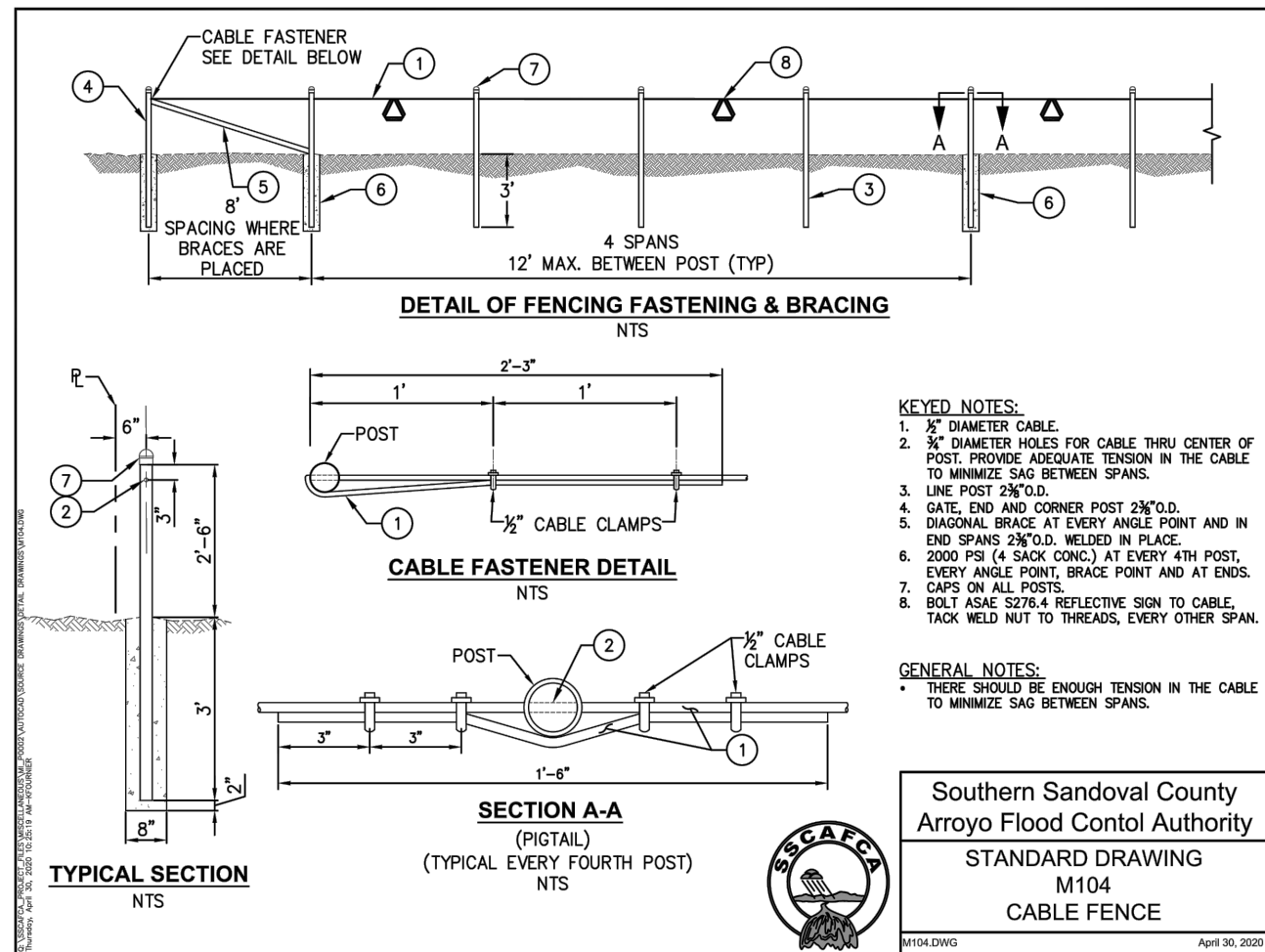
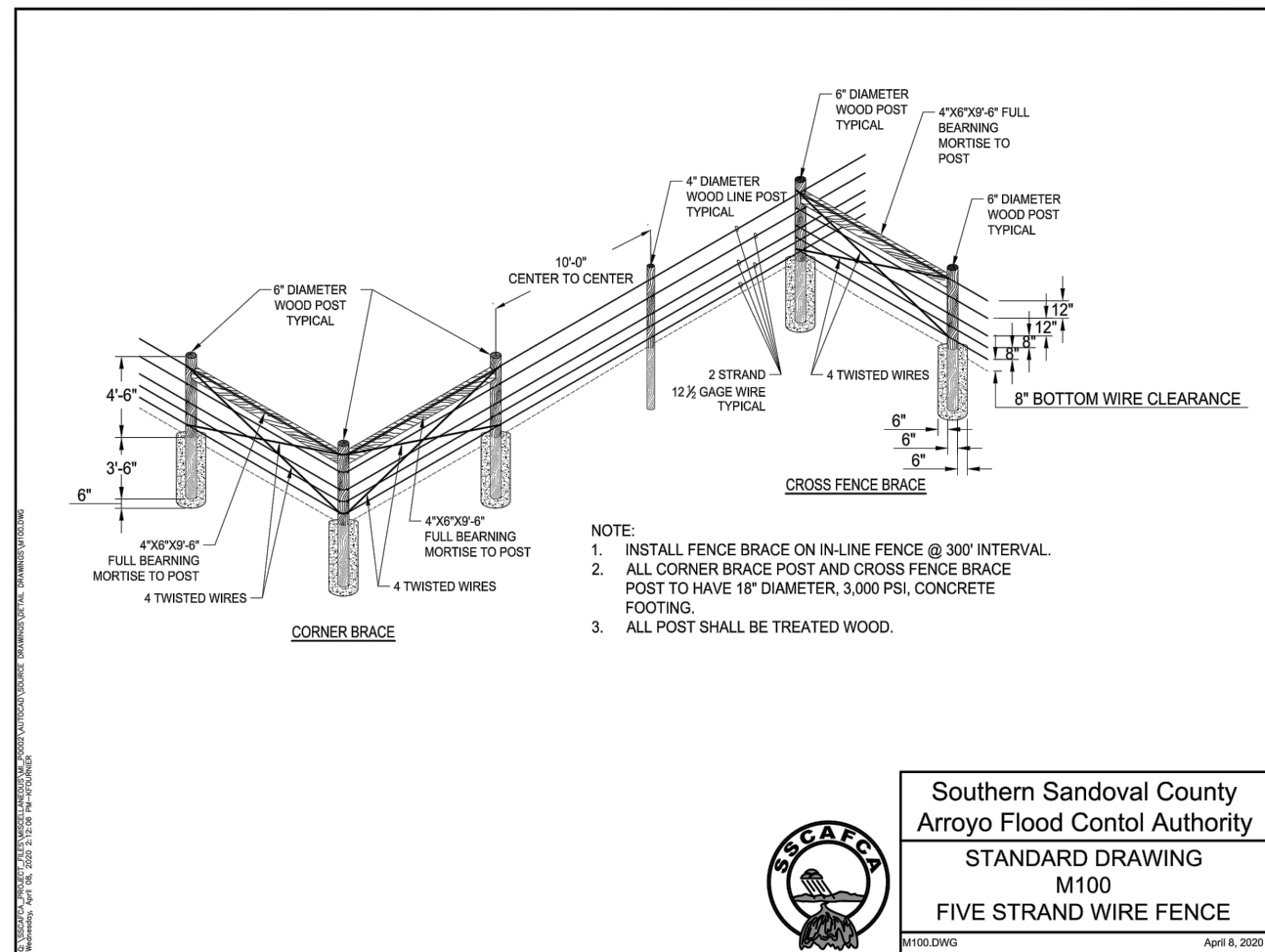
NO.	DESCRIPTION	DATE	BY
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PROJECT DESCRIPTION
SSCAFCA RIPARIA PONDS

SHEET TITLE
PORTED RISER DETAIL 3

PROJECT NO: BL_P0001-03
DESIGNED BY: WHP
DRAWN BY: WHP
CHECKED BY: WHP
DATE: 2-6-23
DPI CHK:
SHEET NO.
C - 503



NO.	DESCRIPTION	DATE	BY
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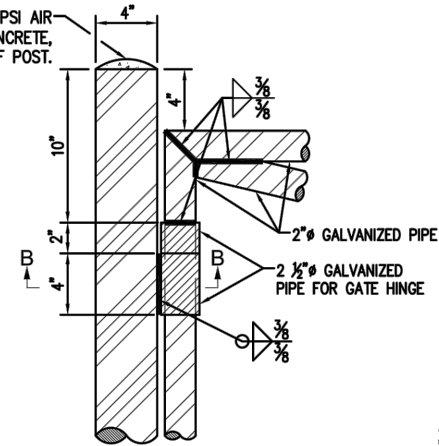


PROJECT DESCRIPTION	SSCAFCA RIPARIA PONDS
SHEET TITLE	FENCING DETAIL

PROJECT NO:	BL_P0001-03
DESIGNED BY:	WHP
DRAWN BY:	WHP
CHECKED BY:	WHP
DATE:	2-6-23
DPI CHK:	
SHEET NO.	C - 504



FILL 4"Ø POST W/ 3000 PSI AIR ENTRAINED FLY ASH CONCRETE, ROUNDED AT TOP OF POST.

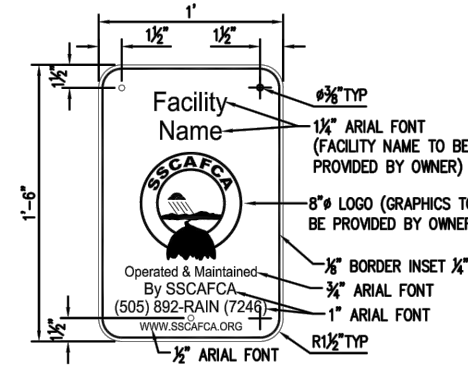


GENERAL NOTES:

- ALL WELDED AND CUT AREAS TO BE CLEANED THOROUGHLY WITH A WIRE BRUSH AND OR SAND BLAST AND REGALVANIZED.
- REGALVANIZING SHALL BE WITH SHERWIN WILLIAMS ZINC CLAD 7 PRIMER OR EQUAL.
- AFTER PRIMING, PAINT ALL PIPES, HINGES, ETC. WITH TWO (2) COATS OF OSHA SAFETY BLUE OR EQUAL.
- CONFIRM GATE SWING DIRECTION W/ENGINEER PRIOR TO SHOP DRAWING SUBMITTAL.

CONSTRUCTION NOTES:

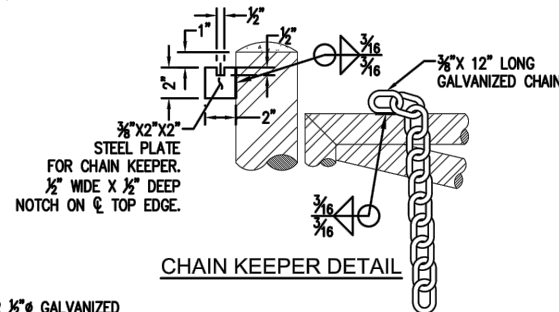
- 2" NOMINAL DIA. GALVANIZED PIPE, MIN. 3.65 LBS/FT.
- 2 1/2" NOMINAL DIA. GALVANIZED PIPE, MIN. 5.79 LBS/FT.
- 4" NOMINAL DIA. GALVANIZED PIPE, MIN. 10.79 LBS/FT.



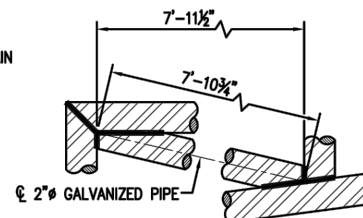
FACILITY SIGN DETAIL

SIGN MATERIAL:

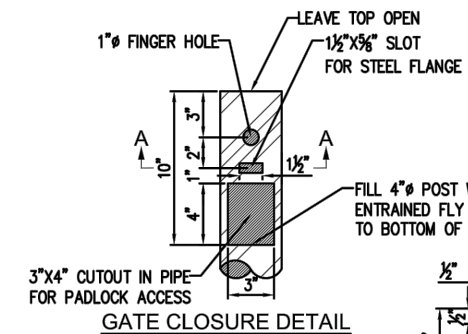
- 63 MIL THICK ALUMINUM WITH DIAMOND GRADE REFLECTIVITY.
- 12+ YEAR DURABILITY, MANUFACTURED WITH PREMIUM 3M INKS AND REFLECTIVE MATERIALS DESIGNED FOR MUNICIPAL OUTDOOR TRAFFIC OR PARKING SIGNS.



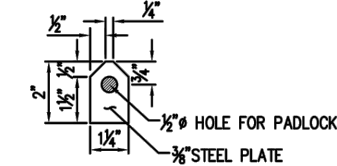
CHAIN KEEPER DETAIL



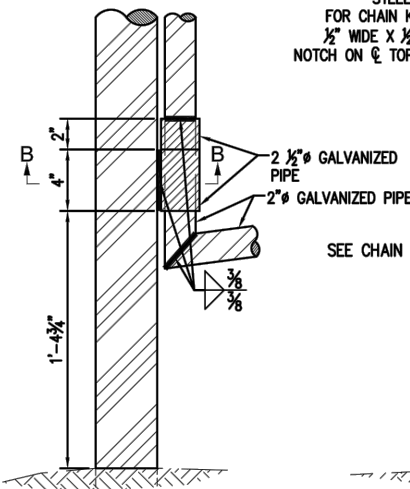
CONNECTION DETAIL



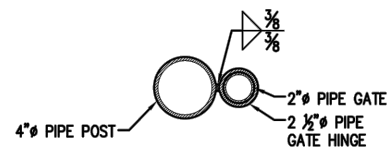
GATE CLOSURE DETAIL



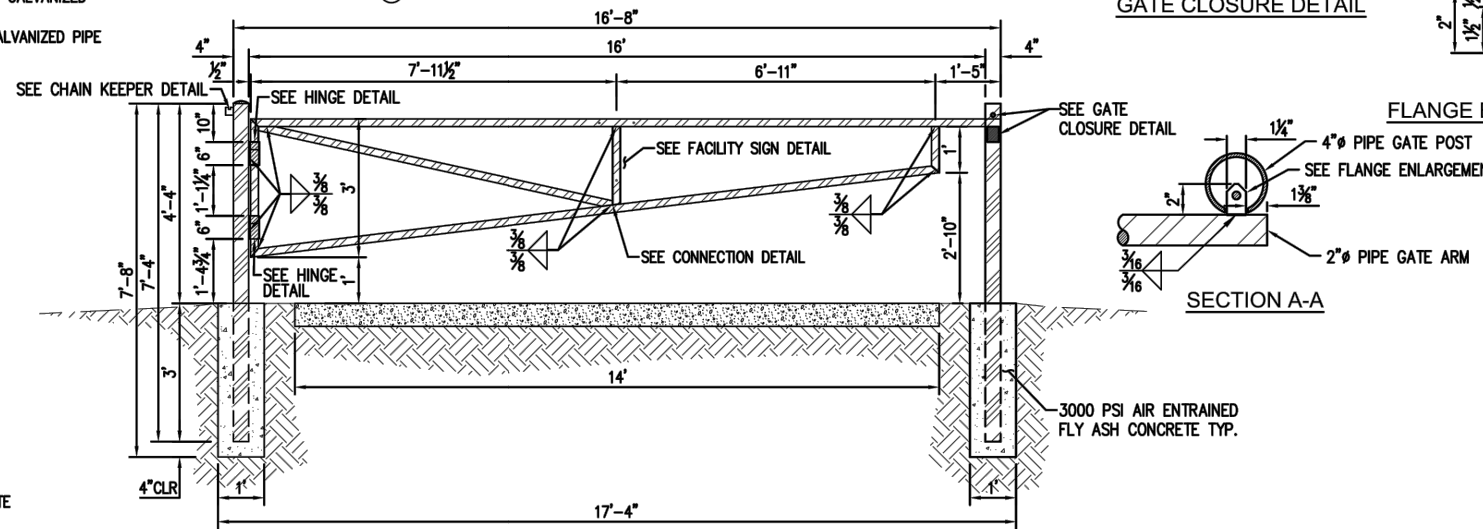
FLANGE ENLARGEMENT



HINGE DETAIL



SECTION B-B



MAINTENANCE ACCESS GATE DETAIL



Southern Sandoval County
Arroyo Flood Control Authority

STANDARD DRAWING
M101
MAINTENANCE ACCESS GATE

M101.DWG

April 8, 2020

NO.	DESCRIPTION	DATE	BY
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WHPacific
AN NVIS COMPANY

PROJECT DESCRIPTION
SSCAFCA RIPARIA PONDS

SHEET TITLE
MAINTENANCE ACCESS GATE
DETAILS

PROJECT NO: BL_P0001-03
DESIGNED BY: WHP
DRAWN BY: WHP
CHECKED BY: WHP
DATE: 2-6-23
DPI CHK:

SHEET NO.
C - 505

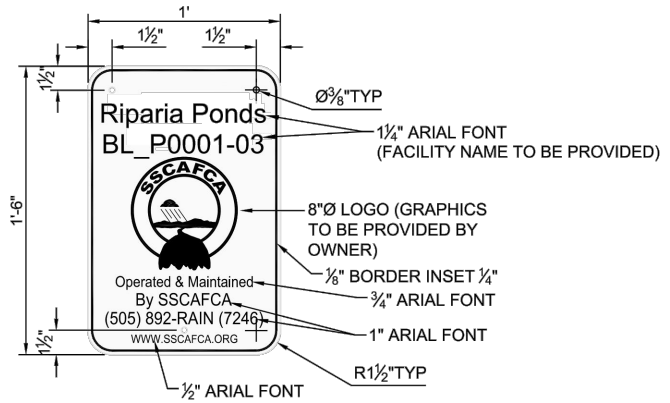
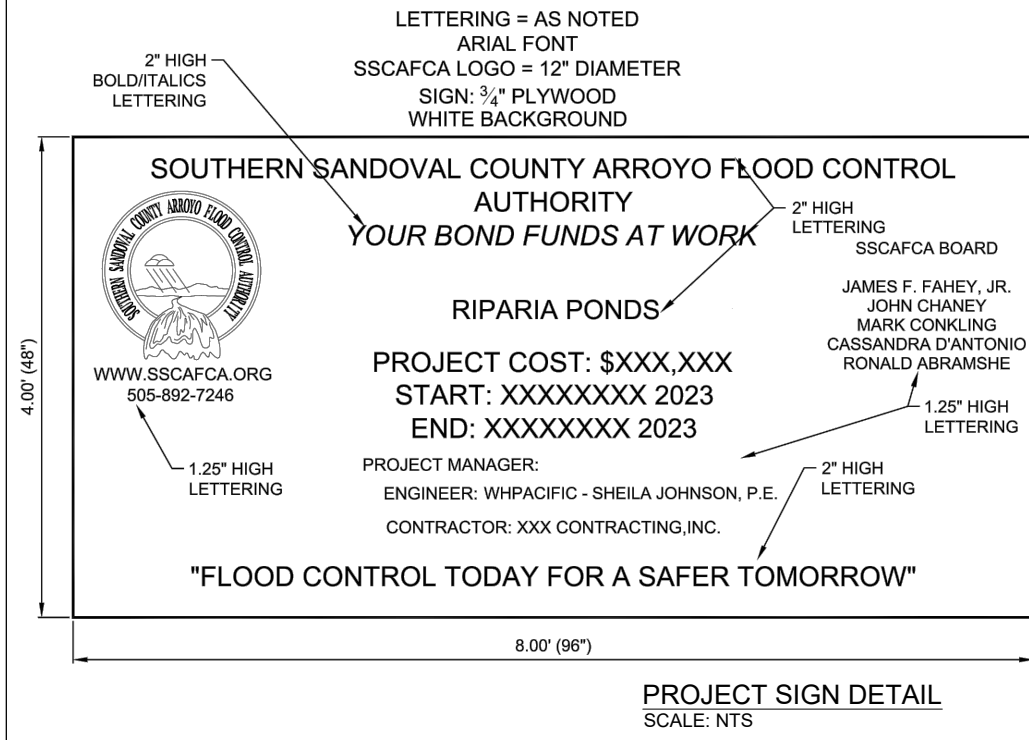
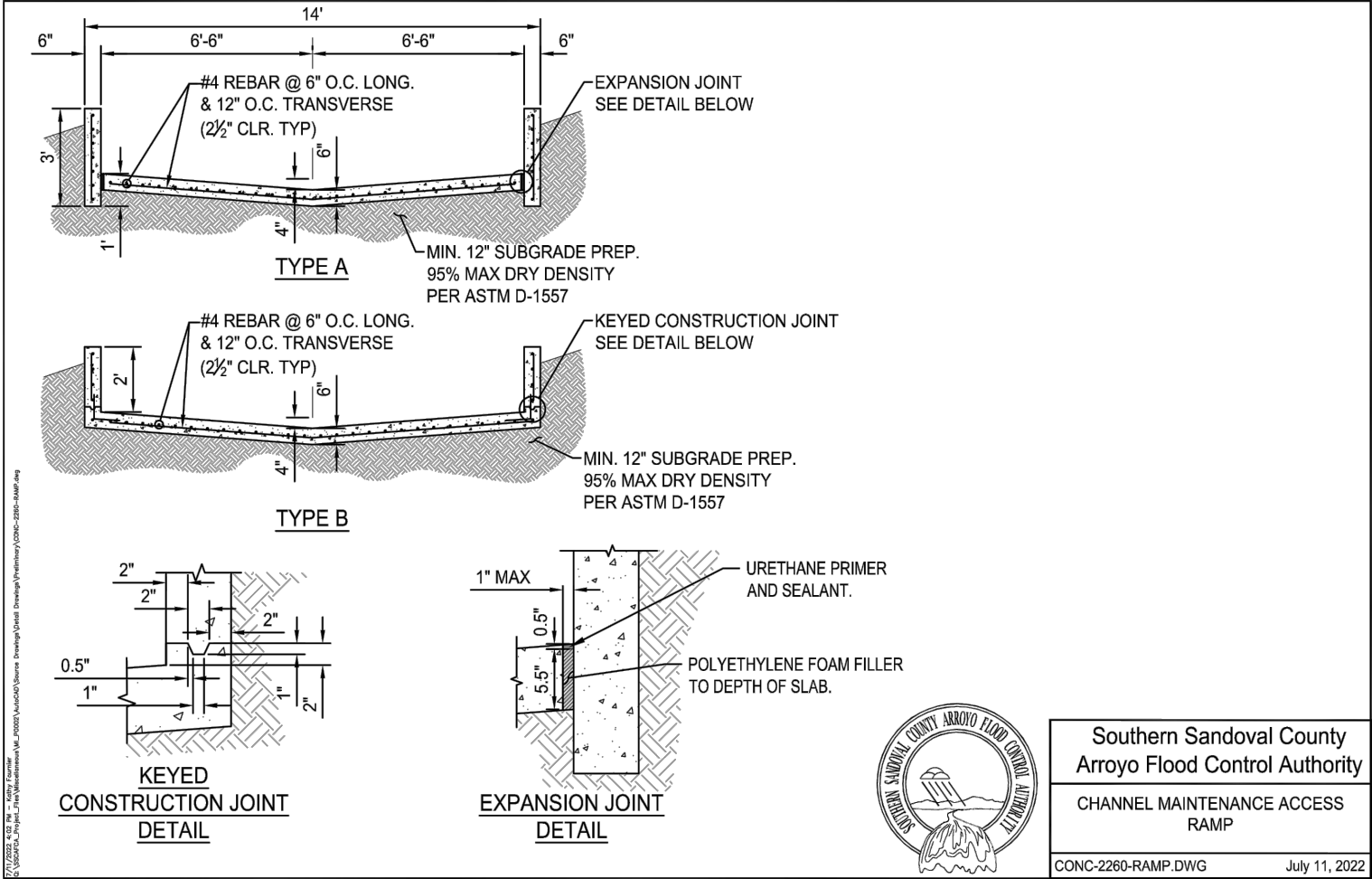


NO.	DESCRIPTION	DATE	BY
7			
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PROJECT DESCRIPTION	SSCAFCA RIPARIA PONDS
SHEET TITLE	MAINTENANCE ACCESS RAMP AND SSCAFCA SIGN DETAILS

PROJECT NO:	BL_P0001-03
DESIGNED BY:	WHP
DRAWN BY:	WHP
CHECKED BY:	WHP
DATE:	2-6-23
DPI CHK:	
SHEET NO.	C - 506



FINAL PLAN SIZE - 22x34



NO.	DESCRIPTION	DATE	BY
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PROJECT DESCRIPTION
SSCAFCA RIPARIA PONDS

SHEET TITLE
STANDARD CHANNEL DETAILS

PROJECT NO: BL_P0001-03

DESIGNED BY: WHP
DRAWN BY: WHP
CHECKED BY: WHP
DATE: 2-6-23
DPI CHK:

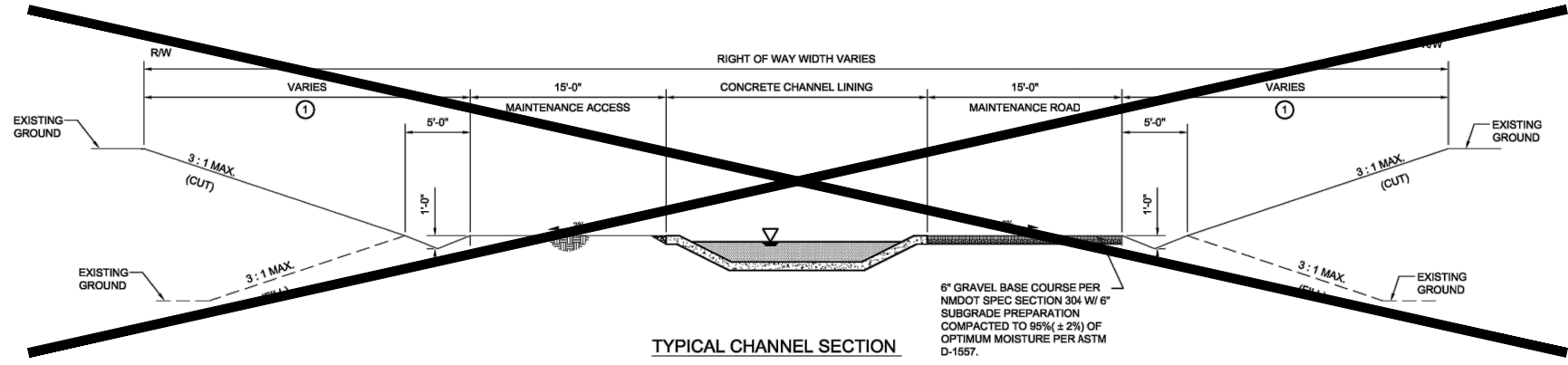
SHEET NO.
C - 507

NOTES FOR CHANNEL CONSTRUCTION

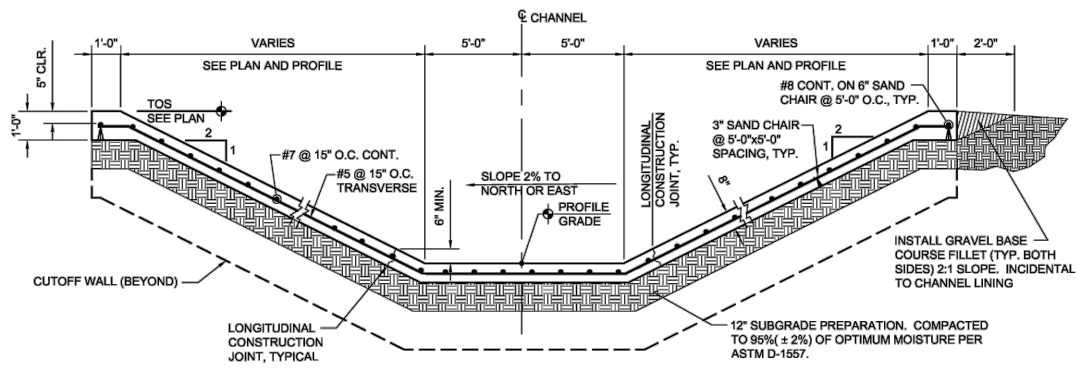
- CAST-IN-PLACE CONCRETE: CONCRETE SHALL BE IN ACCORDANCE WITH PROJECT SPECIFICATIONS. ($f_c = 3000$ psi MINIMUM). 3/4" CHAMFER ON ALL EXPOSED FORMED EDGES UNLESS NOTED OTHERWISE. ($f_c = 4,000$ psi MINIMUM)
- REINFORCING STEEL: STEEL REINFORCEMENT AND PLACEMENT SHALL BE IN ACCORDANCE WITH PROJECT SPECIFICATIONS AND SHALL CONFORM TO ASTM A615, GRADE 60. ALL LAP SPLICES SHALL BE CLASS "B" UNLESS NOTED OTHERWISE. REINFORCING STEEL SHALL BE INCIDENTAL TO CONCRETE BID ITEMS.
- ALL EXPOSED CHANNEL SURFACES SHALL BE GIVEN A CLASS 3 FLOAT & TINE FINISH. TINE SHALL BE TRANSVERSE TO FLOW.
- ALL EXPOSED CONCRETE SHALL BE TINTED WITH SAN DIEGO BUFF (DAVIS COLOR 5237) AT THE REDUCED DOSAGE OF 1 lb PER SACK OF CEMENT, OR APPROVED EQUAL. TINT SHALL BE INCIDENTAL TO THE COST OF THE RESPECTIVE CONCRETE.
- NEW TO EXISTING CHANNEL CONSTRUCTION: EUCCO ARC LITHIUM NITRATE TREATMENT IS REQUIRED FOR ANY EXISTING CONCRETE CHANNELS. SEE DETAILS FOR INSTALLATION REQUIREMENTS, THIS SHEET.
- MINIMUM REBAR LAP LENGTH (CLASS B LAPS):
#5 = 22"
#7 = 43"
#8 = 54"
- THE EARTH SIDE OF SILL WALLS SHALL BE WATERPROOFED AT IRRIGATED AREAS AND DAMP PROOFED AT ALL OTHER AREAS. WATERPROOFING SHALL BE CONWRAP BARRIER CS-212 AS MANUFACTURED BY CONCRETE SEALANTS, INC. (MEMBRANE THICKNESS 0.100 INCHES MINIMUM) OR ENGINEER APPROVED EQUAL. DAMP PROOFING SHALL BE HYDROCIDIC 7008 OR ENGINEER APPROVED EQUAL.
- ALL EXPOSED SURFACES OF THE CHANNEL SILL WALLS SHALL RECEIVE A "THOROCOAT" CLASS 4 FINISH. THE COLOR SHALL BE SIMILAR TO THE TINTED CHANNEL LINING AND SHALL BE APPROVED BY AMAFCA. "THOROCOAT" SHALL BE APPLIED TO THE BACK OF WALLS 6 INCHES BELOW GRADE.

KEYED NOTES

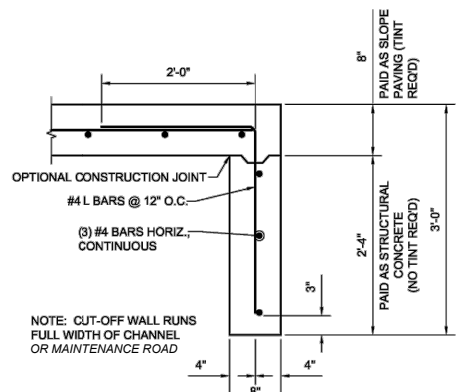
- NATIVE RE-VEGETATION: SEE CITY OF ALBUQUERQUE SPECIFICATION SECTION 1012. GRAVEL MULCH IS REQUIRED FOR SLOPES GREATER THAN 3H:1V.
- EUCCO ARC LITHIUM NITRATE COATING OR APPROVED EQUAL APPLIED TO VERTICAL SURFACE AND 12" OF TOP SURFACE OF EXISTING CONCRETE TO REMAIN.
- REMOVAL OF CONCRETE ADJACENT TO THE 2" SAWCUT WILL BE WITH A 30 LB., MAX. PNEUMATIC HAMMER. IN THE EVENT OF DAMAGE TO THE CONCRETE TO REMAIN, THE CONTRACTOR SHALL RE-SAW THE 2" JOINT AND REMOVE AND REPLACE THAT CONCRETE AT NO COST TO AMAFCA OR THE OWNER.



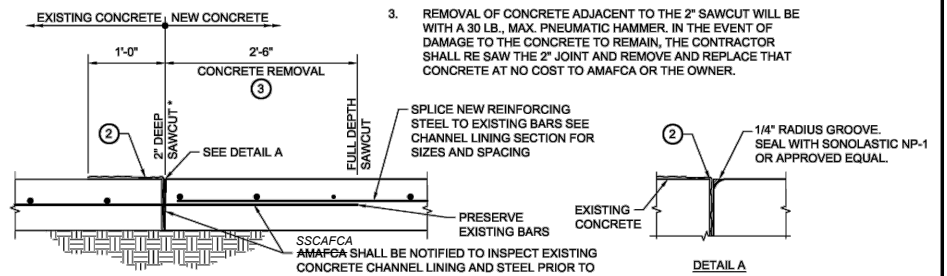
TYPICAL CHANNEL SECTION



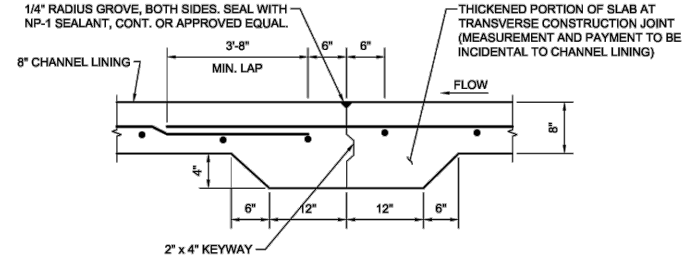
CONCRETE CHANNEL LINING



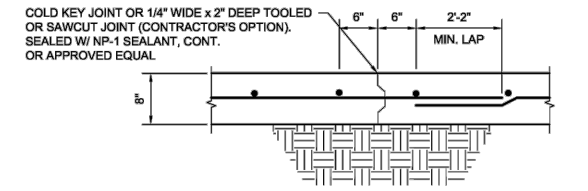
TYPICAL CUT-OFF WALL SECTION



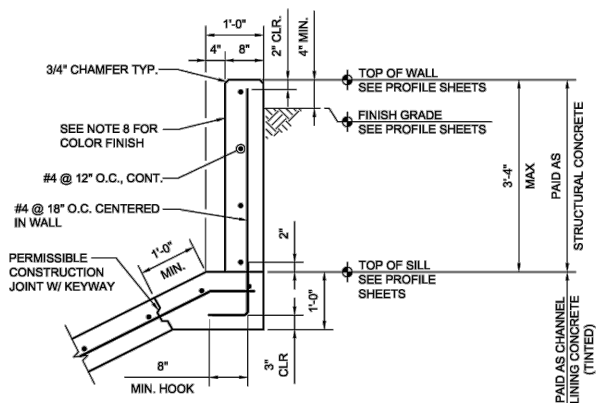
NEW TO EXISTING CHANNEL LINING CONSTRUCTION JOINT DETAILS



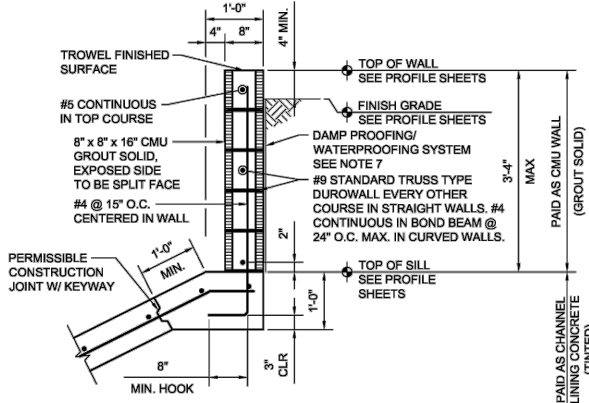
TYPICAL TRANSVERSE CONSTRUCTION JOINT DETAIL



TYPICAL LONGITUDINAL CONSTRUCTION JOINT DETAIL



TYPICAL SILL WALL DETAIL



TYPICAL SILL WALL DETAIL

**ALBUQUERQUE METROPOLITAN
ARROYO FLOOD CONTROL AUTHORITY**

AMAFCA
STANDARD DETAILS
CHANNEL STRUCTURE
SECTIONS AND DETAILS

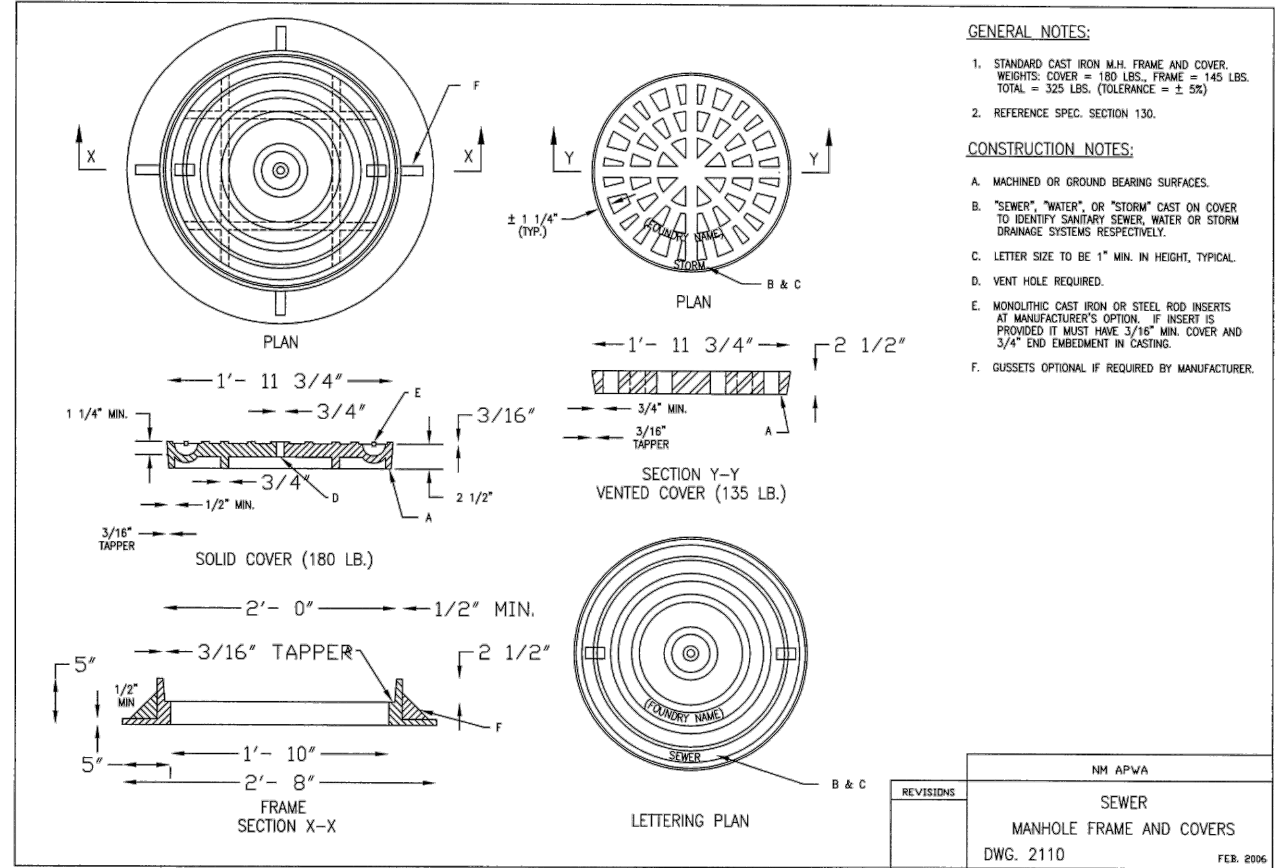
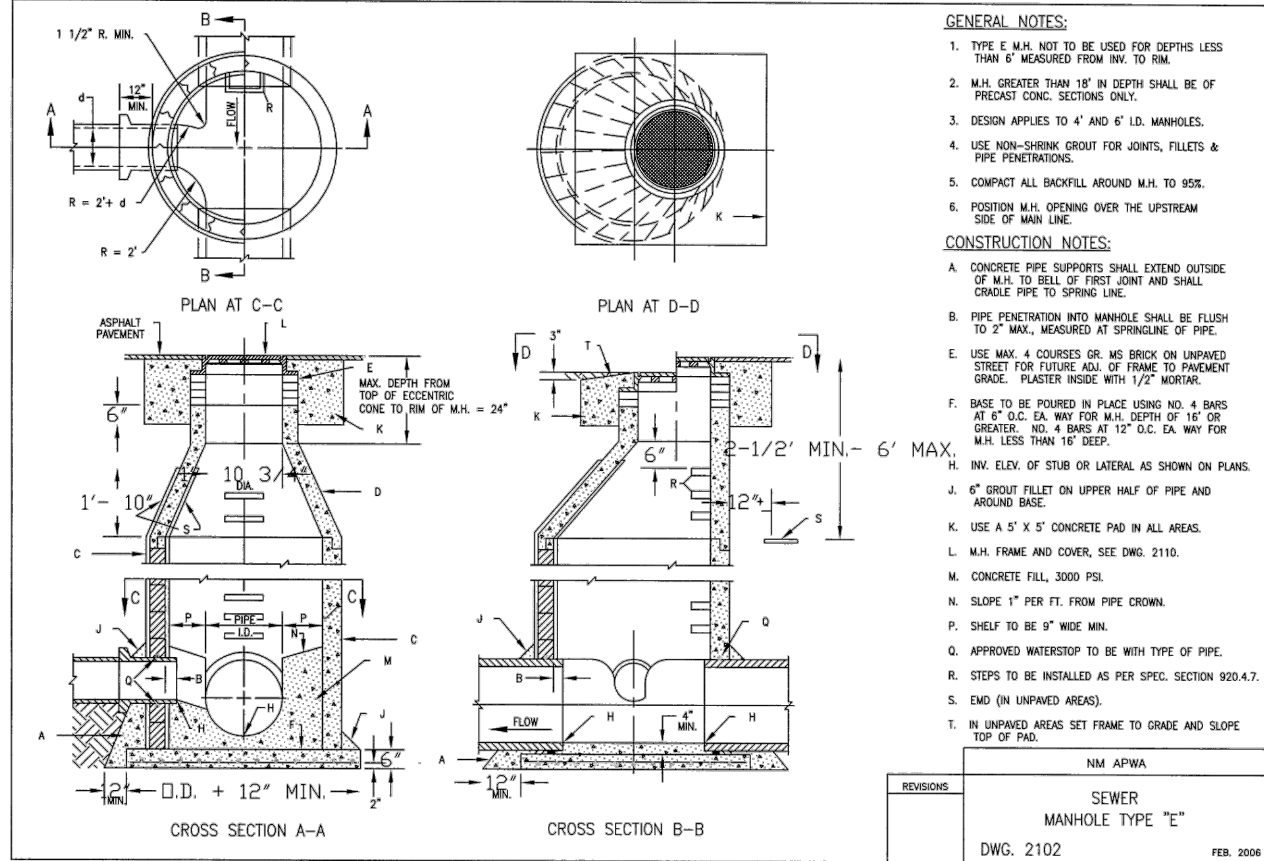
REV	DATE	DESCRIPTION	CHKD

DRAWING NO.	102	MAP NO.	SHEET	OF
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ISSUE DATE: 8-12-2008

FINAL PLAN SIZE - 22x34

P:\080313\Struct\ACAD\Submittals\100% Final\8-12-08\Acad.dwg\AMAFCA-102.dwg
August 12, 2008 - 9:22am



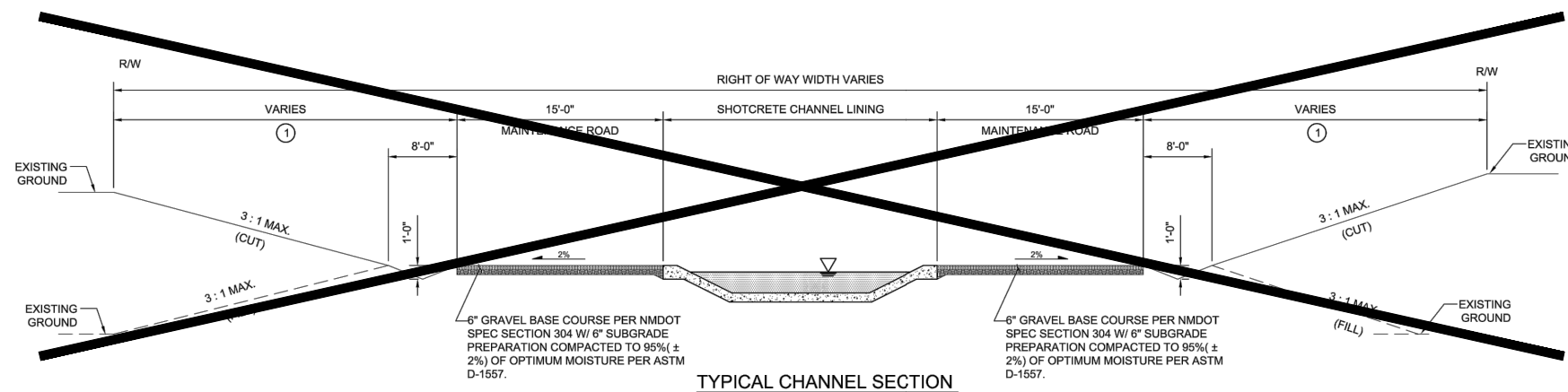
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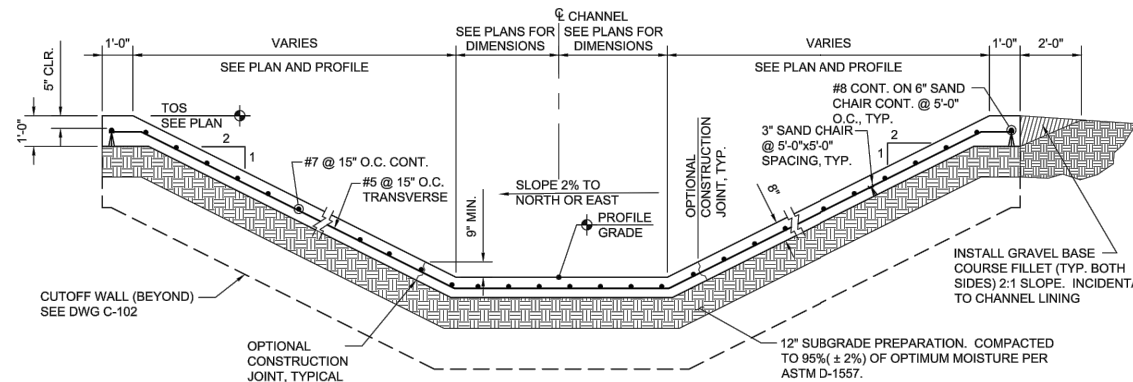
PROJECT DESCRIPTION
SSCAFCA RIPARIA PONDS

SHEET TITLE
MANHOLE AND COVER DETAILS

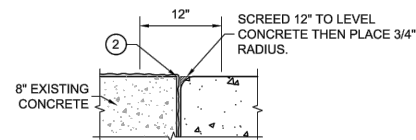
PROJECT NO: BL_P0001-03
 DESIGNED BY: WHP
 DRAWN BY: WHP
 CHECKED BY: WHP
 DATE: 2-6-23
 DPI CHK:
 SHEET NO.
C - 508



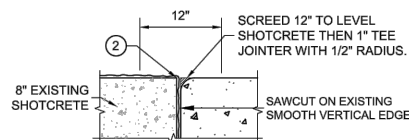
TYPICAL CHANNEL SECTION



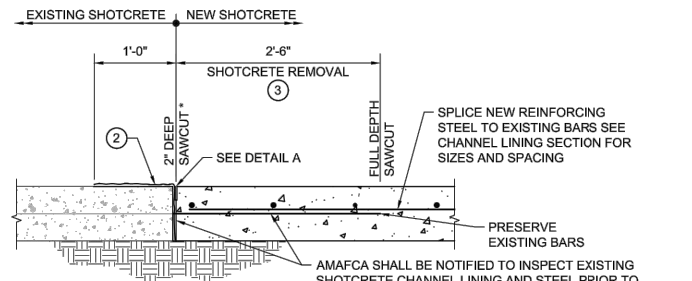
SHOTCRETE CHANNEL LINING



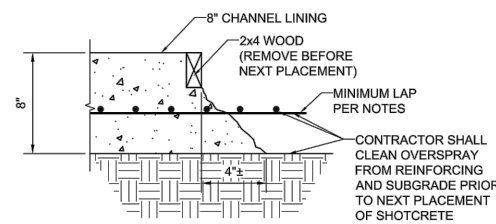
STANDARD PLACE CONCRETE TO NEW SHOTCRETE JOINT DETAIL



EXISTING SHOTCRETE TO NEW SHOTCRETE



NEW TO EXISTING CHANNEL LINING CONSTRUCTION JOINT



8" SHOTCRETE TYPICAL CONSTRUCTION JOINT

NOTES FOR SHOTCRETE CHANNEL CONSTRUCTION

- SHOTCRETE: CONCRETE SHALL BE IN ACCORDANCE WITH PROJECT SPECIFICATIONS. (f_c = 4000 psi MINIMUM). 3/4" CHAMFER ON ALL EXPOSED FORMED EDGES UNLESS NOTED OTHERWISE.
- REINFORCING STEEL: STEEL REINFORCEMENT AND PLACEMENT SHALL BE IN ACCORDANCE WITH PROJECT SPECIFICATIONS AND SHALL CONFORM TO ASTM A615 GRADE 60. ALL LAP SPLICES SHALL BE CLASS "B" UNLESS NOTED OTHERWISE. REINFORCING STEEL SHALL BE INCIDENTAL TO CONCRETE BID ITEMS.
- ALL EXPOSED CONCRETE SHALL BE TINTED WITH SAN DIEGO BUFF (DAVIS COLOR 5237) AT THE REDUCED DOSAGE OF 1 LB PER SACK OF CEMENT, OR APPROVED EQUAL. TINT SHALL BE INCIDENTAL TO THE COST OF THE RESPECTIVE CONCRETE.
- NEW TO EXISTING CHANNEL CONSTRUCTION: EUCC ARC LITHIUM NITRATE OR APPROVED EQUAL TREATMENT IS REQUIRED FOR ANY EXISTING CONCRETE CHANNELS. SEE DETAILS FOR INSTALLATION REQUIREMENTS, THIS SHEET.
- MINIMUM REBAR LAP LENGTH (CLASS B LAPS):
 #4 = 24"
 #5 = 26"
 #7 = 43"
 #8 = 54"
- THE EARTH SIDE OF SILL WALLS SHALL BE WATERPROOFED AT IRRIGATED AREAS AND DAMP PROOFED AT ALL OTHER AREAS. WATERPROOFING SHALL BE CONWRAP BARRIER CS-212 AS MANUFACTURED BY CONCRETE SEALANTS, INC. (MEMBRANE THICKNESS 0.100 INCHES MINIMUM) OR APPROVED EQUAL. DAMP PROOFING SHALL BE HYDROCID 700B OR APPROVED EQUAL.
- FOR SILL WALL AND CUT OFF WALL DETAILS SEE SHEET C-102.

KEYED NOTES

- NATIVE RE-VEGETATION. SEE CITY OF ALBUQUERQUE SPECIFICATION SECTION 1012. GRAVEL MULCH IS REQUIRED FOR SLOPES GREATER THAN 3H:1V.
- EUCC ARC LITHIUM NITRATE COATING OR APPROVED EQUAL APPLIED TO VERTICAL SURFACE AND 12" OF TOP SURFACE OF EXISTING CONCRETE TO REMAIN.
- REMOVAL OF CONCRETE ADJACENT TO THE 2" SAWCUT WILL BE WITH A 30 LB. MAX. PNEUMATIC HAMMER. IN THE EVENT OF DAMAGE TO THE CONCRETE TO REMAIN, THE CONTRACTOR SHALL RE SAW THE 2" JOINT AND REMOVE AND REPLACE THAT CONCRETE AT NO COST.

ALBUQUERQUE METROPOLITAN
 ARROYO FLOOD CONTROL AUTHORITY
 AMAFCA
 STANDARD DETAILS
 SHOTCRETE CHANNEL STRUCTURE
 SECTIONS AND DETAILS

REV	DATE	DESCRIPTION	CHKD

DRAWING NO. **C-102S** MAP NO. SHEET OF

ISSUE DATE: 2-14-2020

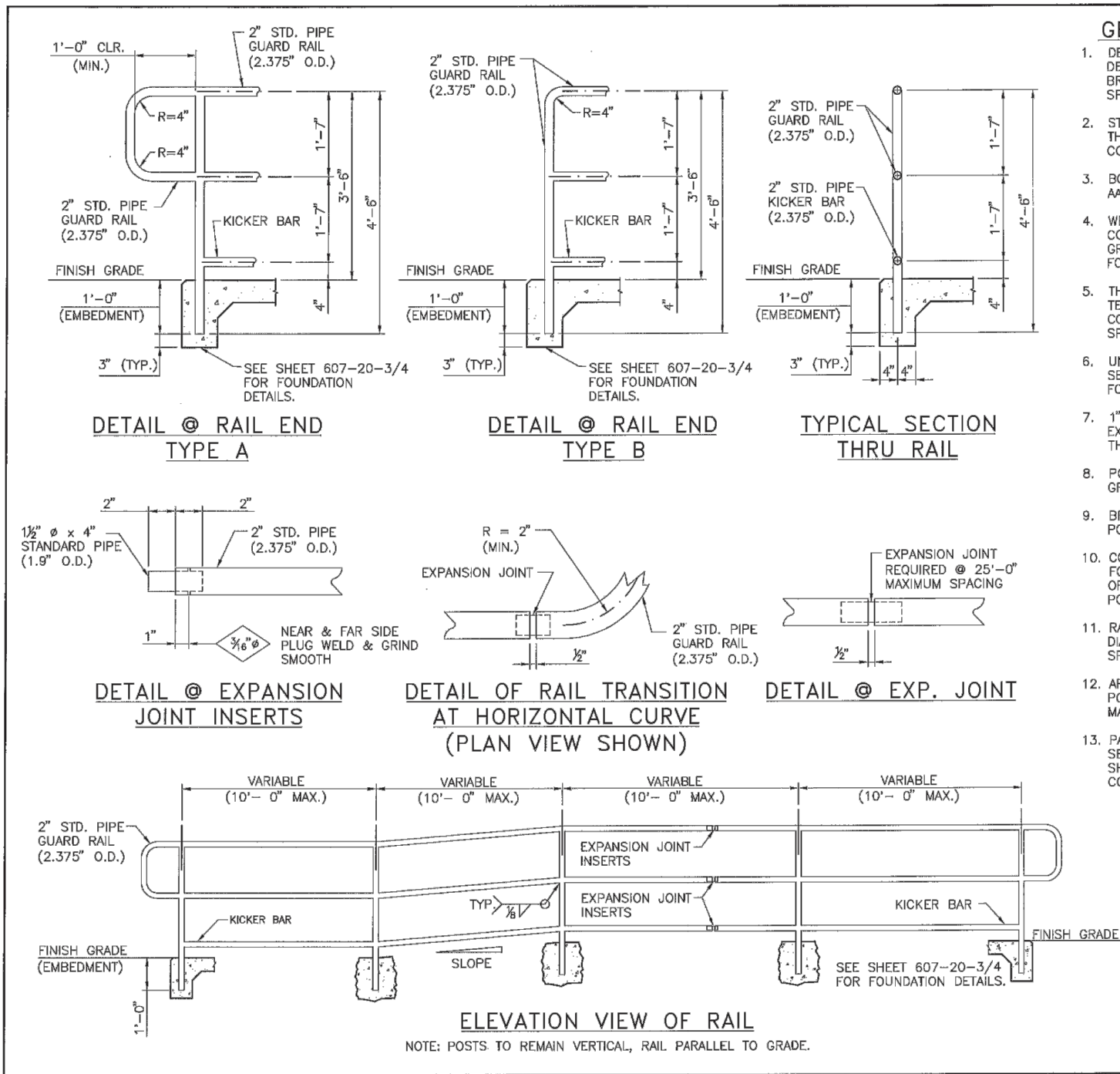
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PROJECT DESCRIPTION
SSCAFCA RIPARIA PONDS
 SHEET TITLE
SHOTCRETE STANDARD DETAIL

PROJECT NO: BL_P0001-03
DESIGNED BY: WHP
DRAWN BY: WHP
CHECKED BY: WHP
DATE: 2-6-23
DPI CHK:
SHEET NO. C - 509

FINAL PLAN SIZE - 22x34



GENERAL NOTES:

- DESIGN AND CONSTRUCTION SHALL CONFORM TO THE NEW MEXICO STATE DEPARTMENT OF TRANSPORTATION'S STANDARD SPECIFICATIONS FOR HIGHWAY AND BRIDGE CONSTRUCTION, CURRENT EDITION AND SUPPLEMENTAL SPECIFICATIONS AND SPECIAL PROVISIONS.
- STEEL STRUCTURES SHALL CONFORM TO SECTION 541 - STEEL STRUCTURES OF THE STANDARD SPECIFICATIONS AND AASHTO M 270, GRADE 50. TUBING SHALL CONFORM TO ASTM A 500, GRADE B.
- BOLTS, NUTS, AND WASHERS SHALL BE GALVANIZED TO MEET THE REQUIRMENTS OF AASHTO M 111 OR AASHTO M 298.
- WELDING SHALL MEET THE REQUIREMENTS OF ANSI/AWS D 1.1 STRUCTURAL WELDING CODE, AND SECTION 541 OF THE STANDARD SPECIFICATIONS. ALL WELDS SHALL BE GROUND SO AS TO REMOVE ALL BURS OR PROTUBERANCES WHICH COULD TRAP FOREIGN MATERIALS OR CAUSE HARM TO A PEDESTRIAN.
- THE FABRICATOR SHALL FURNISH TO THE BRIDGE ENGINEER SIX COPIES OF MILL TEST REPORTS OF ALL STRUCTURAL STEEL ITEMS, WELDING ELECTRODES, AND FLUX COMBINATIONS IN CONFORMANCE WITH SUBSECTION 541.3.2.1 OF THE STANDARD SPECIFICATIONS.
- UNLESS OTHERWISE NOTED IN THE CONTRACT, THE PROJECT MANAGER SHALL SELECT EITHER TYPE A OR TYPE B RAILING ENDS, AND SCHEME 1 OR SCHEME 2 FOR FOUNDATIONS.
- 1" STANDARD PIPE HANDRAIL SHALL BE USED FOR GRADES EQUAL TO OR EXCEEDING 5%. 1" STANDARD PIPE HANDRAIL SHALL BE USED FOR GRADES LESS THAN 5%, WHEN SPECIFIED IN THE PLANS.
- POSTS SHALL BE VERTICAL. ALL RAILS SHALL BE PARALLEL TO EACH OTHER AND TO GRADE.
- BREAKS IN VERTICAL ALIGNMENTS SHALL BE AT THE CENTER LINES OF THE VERTICAL POSTS.
- CONCRETE SHALL BE CLASS "AA" AND SHALL BE INCLUDED IN THE BID PRICE FOR SIDEWALKS. IN INSTANCES WHERE THERE ARE NO SIDEWALKS, THE BID PRICE OF THE PEDESTRIAN RAILING INCLUDES THE COST OF CONCRETE TO SUPPORT THE POSTS.
- RAIL POSTS SHALL BE CAST-IN-PLACE, OR SET IN OVERSIZED HOLES (3" IN DIAMETER) AND GROUTED AS OUTLINED IN SECTION 522 OR 523 OF THE STANDARDS SPECIFICATIONS.
- AFTER GROUTING, THE CONTRACTOR SHALL SEAL THE JOINTS BETWEEN THE RAIL POSTS AND THE CONCRETE WITH SILICONE SEALANT APPROVED BY THE PROJECT MANAGER.
- PAINTING AND/OR POWDER COATING OF STRUCTURAL STEEL SHALL CONFORM TO SECTION 545 OR SPECIAL PROVISIONS OF THE STANDARD SPECIFICATIONS. COLOR SHALL BE VERIFIED BY PROJECT MANAGER. REINFORCING BARS SHALL BE EPOXY COATED CONFORMING TO SECTION 540.

DATE	BY	DESCRIPTION

REVISIONS (OR CHANGE NOTICES)

NEW MEXICO DEPARTMENT OF TRANSPORTATION STANDARD DRAWING

PEDESTRIAN RAILING WITHOUT HANDRAIL

DESIGNED BY: TM DRAWN BY: SKL CHECKED BY: YML/TM
607-20-1/4 1 of 4



Sheet 607-20

NO.	DESCRIPTION	DATE	BY
7			
6			
5			
4			
3			
2			
1			

REVISIONS (OR CHANGE NOTICES)



PROJECT DESCRIPTION
SSCAFCA RIPARIA PONDS

SHEET TITLE
PEDESTRIAN RAILING WITHOUT HANDRAIL DETAIL

PROJECT NO: BL_P0001-03

DESIGNED BY: WHP

DRAWN BY: WHP

CHECKED BY: WHP

DATE: 2-6-23

DPI CHK:

SHEET NO.
C - 510



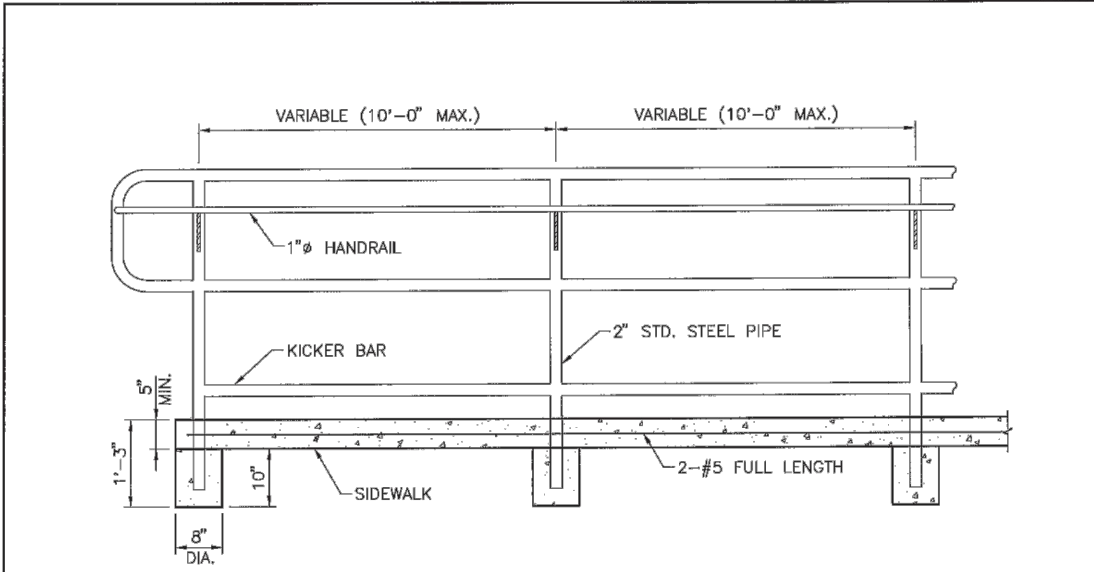
NO.	DESCRIPTION	DATE	BY
7			
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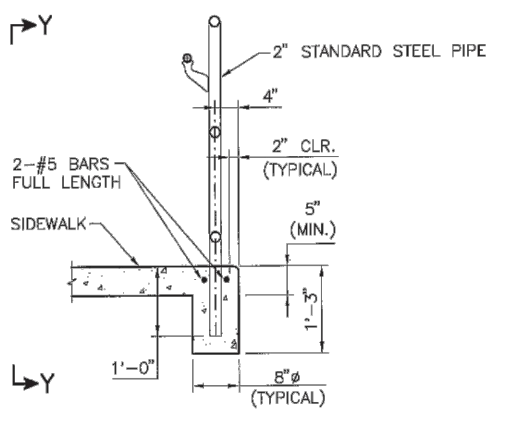
PROJECT DESCRIPTION
SSCAFCA RIPARIA PONDS

SHEET TITLE
PEDESTRIAN RAILING
FOUNDATION DETAILS

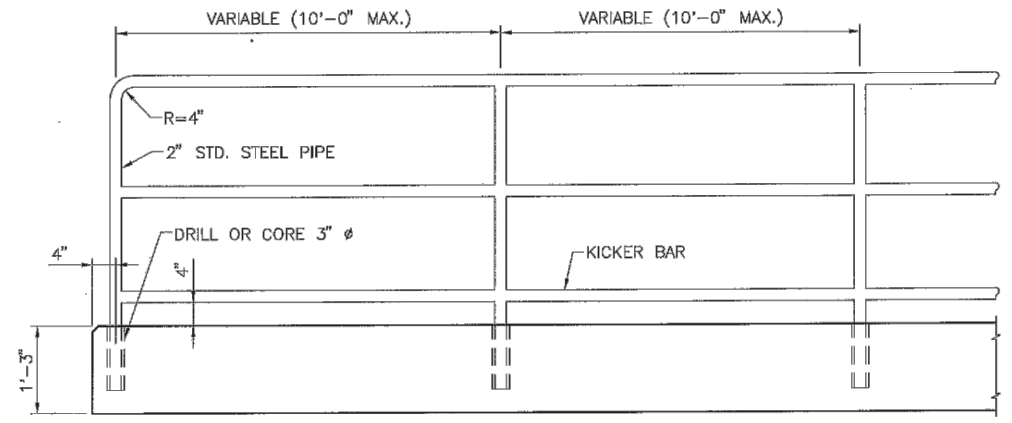
PROJECT NO: BL_P0001-03
 DESIGNED BY: WHP
 DRAWN BY: WHP
 CHECKED BY: WHP
 DATE: 2-6-23
 DPI CHK:
 SHEET NO.
C - 511



SCHEME # 2
(VIEW Y-Y)

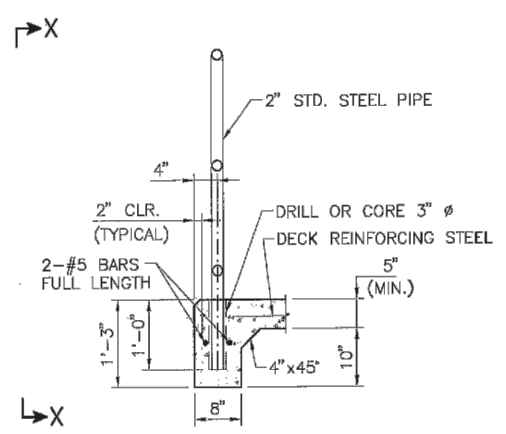


FOUNDATION SCHEME # 2
(FOR EDGE OF SIDEWALK INSTALLATION)

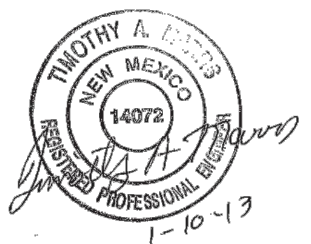


SCHEME # 1
(VIEW X-X)

NOTE: HANDRAILING OMITTED FROM VIEW. REFER TO GENERAL NOTE 7 ON DRAWING 607-20-1/4 WHEN HANDRAILING IS REQUIRED.



FOUNDATION SCHEME # 1
(FOR BRIDGE DECK OR EDGE OF SIDEWALK INSTALLATION)



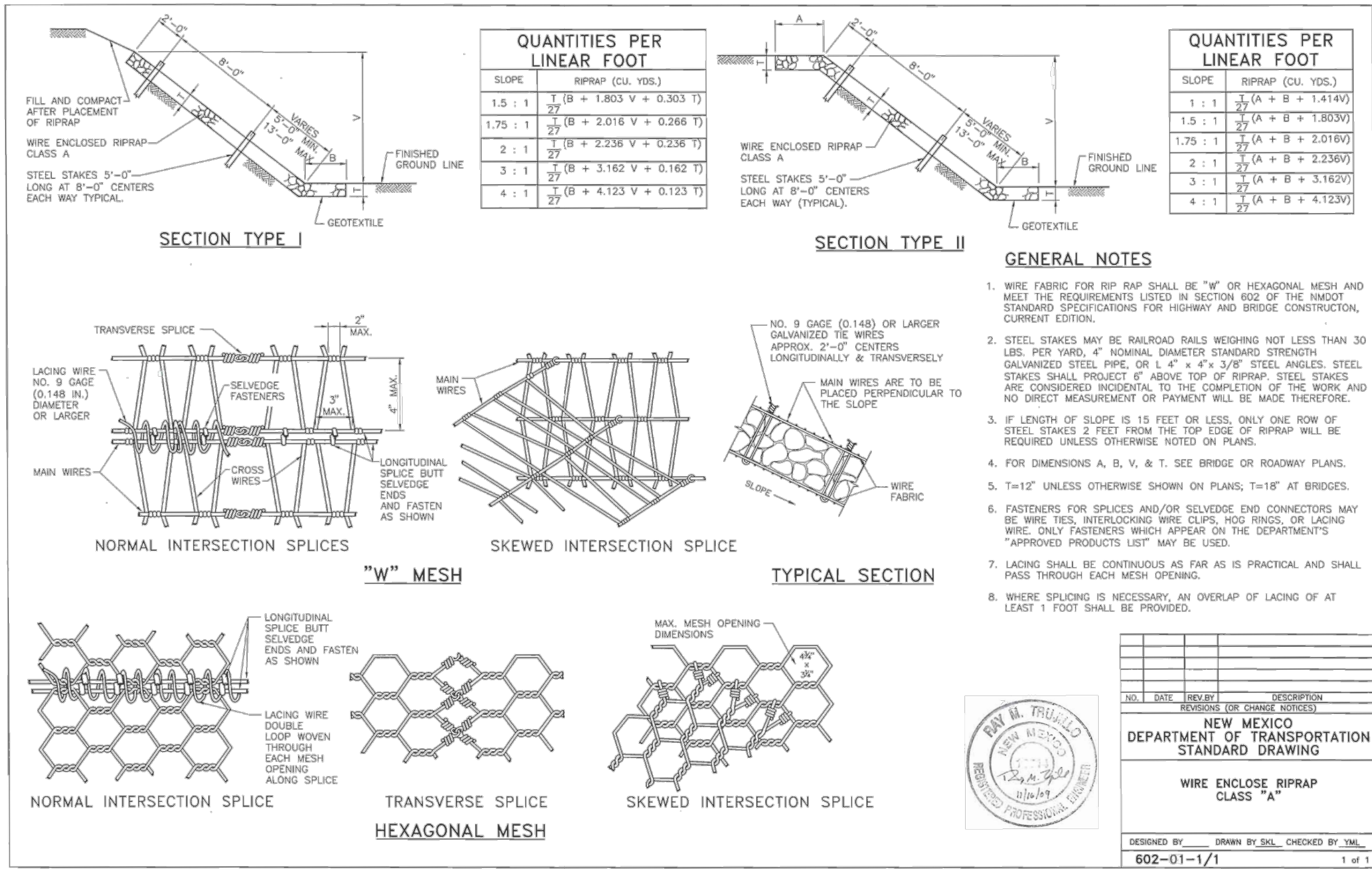
DATE	BY	DESCRIPTION

REVISIONS (OR CHANGE NOTICES)

NEW MEXICO
DEPARTMENT OF TRANSPORTATION
STANDARD DRAWING

PEDESTRIAN RAILING
FOUNDATION DETAILS

DESIGNED BY: TM DRAWN BY: SKL CHECKED BY: YML/TM
607-20-3/4 3 of 4



NO.	DESCRIPTION	DATE	BY
7			
6			
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3			
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PROJECT DESCRIPTION
SSCAFCA RIPARIA PONDS

SHEET TITLE
CLASS A RIPRAP DETAIL

PROJECT NO: BL_P0001-03

DESIGNED BY: WHP

DRAWN BY: WHP

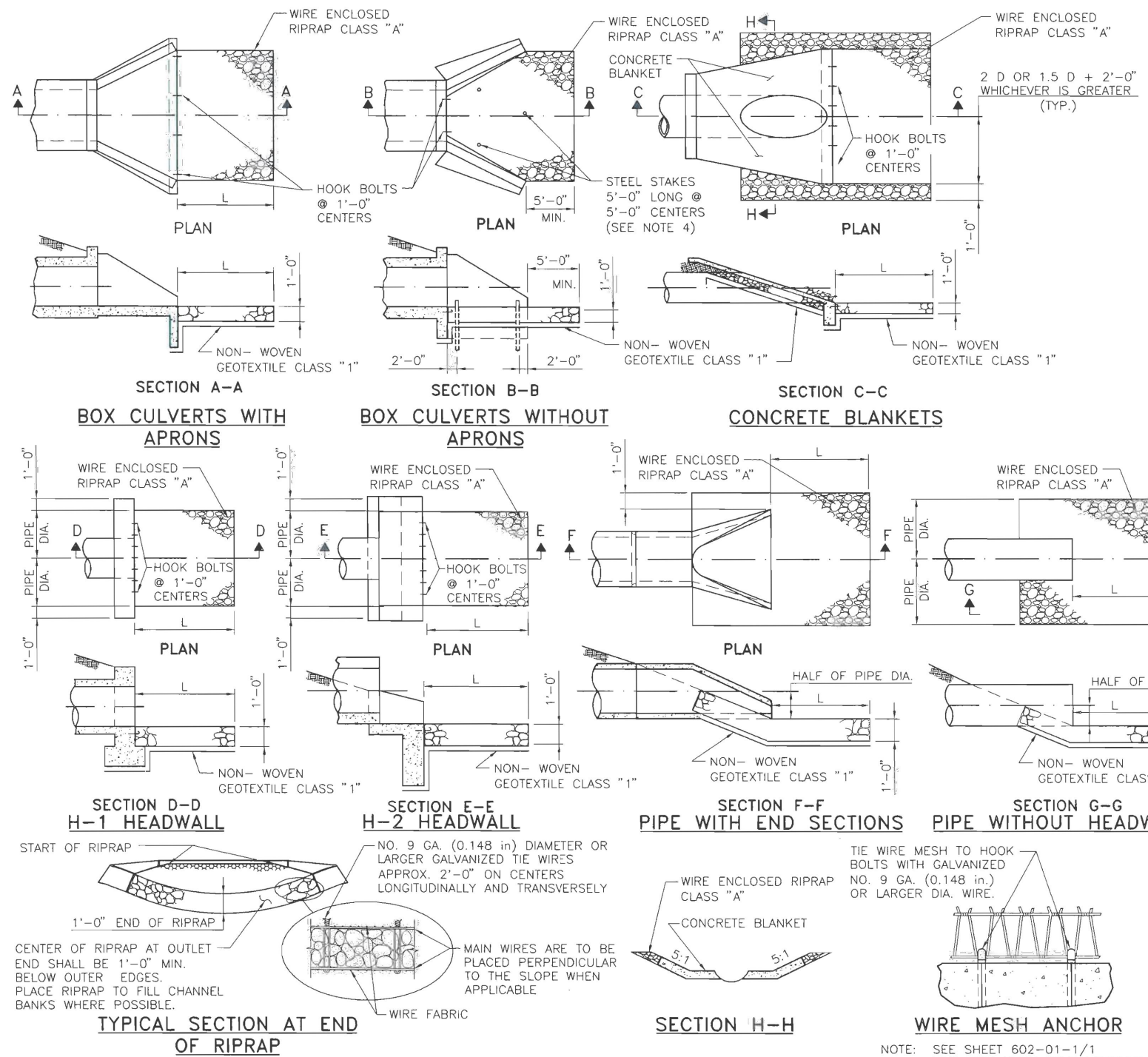
CHECKED BY: WHP

DATE: 2-6-23

DPI CHK:

SHEET NO.
C - 512

FINAL PLAN SIZE - 22x34



GENERAL NOTES

1. ALL RIPRAP SHALL BE CLASS "A" UNLESS SPECIFIED OTHERWISE IN THE PLANS. DIMENSIONS OF RIPRAP CLASS "A" SHALL BE VERIFIED IN FIELD.
2. RIPRAP ON THIS STANDARD IS SHOWN FOR SINGLE PIPES AND CULVERTS ONLY. FOR MULTIPLE PIPE AND CULVERT INSTALLATIONS, EXTEND RIPRAP BEYOND OUTLET OPENING AS SHOWN IN PLAN DETAILS AND PLACE RIPRAP BETWEEN OUTLET OPENINGS AS SHOWN IN ELEVATION DETAILS.
3. SERIAL 602-02-1/1 MAY BE REFERENCED FOR DESCRIPTIONS OF WIRE MESH AND ALTERNATE PATTERNS.
4. STEEL STAKES MAY BE RAILROAD RAILS WEIGHING NOT LESS THAN 30 LBS. PER YARD, 4" NOMINAL DIAMETER STANDARD STRENGTH GALVANIZED STEEL PIPE, OR L 4" X 4" X 3/8" STEEL ANGLES. STEEL STAKES SHALL PROJECT 6" ABOVE TOP OF RIPRAP. STEEL STAKES ARE CONSIDERED INCIDENTAL TO THE COMPLETION OF THE WORK AND NO DIRECT MEASUREMENT OR PAYMENT WILL BE MADE THEREFOR.
5. CONTRACTOR MAY SUBSTITUTE CONCRETE CHEMICAL ANCHORS WITH HOOK GEOMETRY SHOWN, WHICH MEET REQUIREMENTS OF SECTION 522.
6. TOE-IN OR PLACE EROSION CONTROL GEOTEXTILE UNDER FOOTINGS OR CUT-OFF WALL.
7. L (MIN.) = 10'-0" OR 1.5 x DIAMETER OR RISE, WHICHEVER IS GREATER.

REVISIONS (OR CHANGE NOTICES)		
NO.	DATE	DESCRIPTION
1	8/09/09	YML GENERAL REVISIONS

DESIGNED BY TM DRAWN BY SKL CHECKED BY YML
602-02-1/1 1 of 1



REVISIONS (OR CHANGE NOTICES)		
NO.	DESCRIPTION	DATE
7		
6		
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4		
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PROJECT DESCRIPTION
SSCAFCFA RIPARIA PONDS

SHEET TITLE
EROSION CONTROL AT CULVERT OUTLETS DETAIL

PROJECT NO: BL_P0001-03
 DESIGNED BY: WHP
 DRAWN BY: WHP
 CHECKED BY: WHP
 DATE: 2-6-23
 DPI CHK:
 SHEET NO.
C - 513

FINAL PLAN SIZE - 22x34