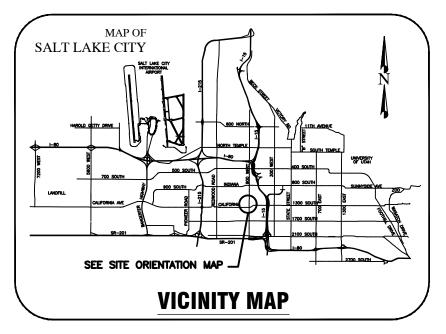
SALT LAKE CITY CORPORATION

THREE CREEKS CONFLUENCE



OWNER

DEPARTMENT OF: **COMMUNITY AND NEIGHBORHOODS ENGINEERING DIVISION**

INTERIM DIRECTOR - MARCIA WHITE CITY ENGINEER - MATTHEW CASSEL, P.E., ENV-SP

349 SOUTH 200 EAST. SUITE 100 SALT LAKE CITY, UTAH 84111 OFFICE - 801.535.7961 FAX - 801.535.6093

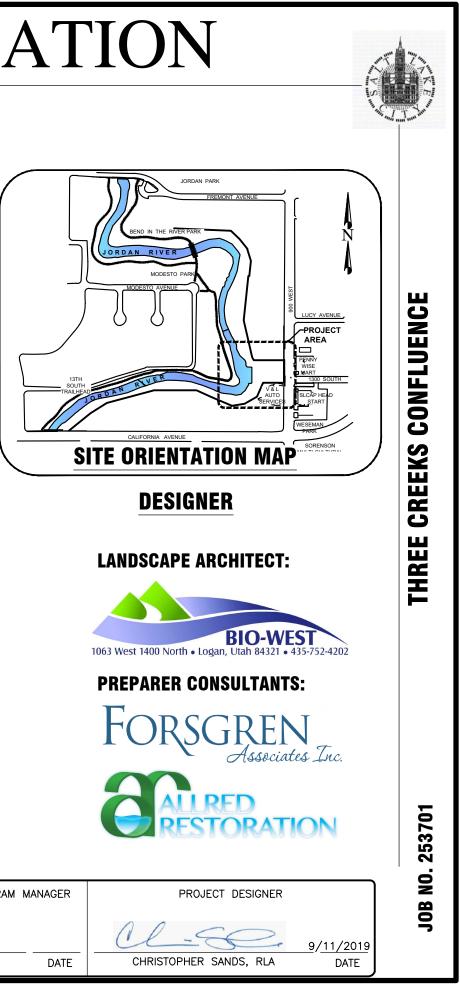
CITY OFFICIALS

MAYOR JACKIE BISKUPSKI CITY COUNCIL DIST. 1 JAMES ROGERS DIST. 2 ANDREW JOHNSTON DIST. 3 CHRIS WHARTON DIST. 4 ANALIA VALDEMOROS DIST. 5 ERIN MENDENHALL DIST. 6 CHARLIE LUKE DIST. 7 AMY FOWLER

JOB NO. 253701

SHEET SET ASSEMBLY ORDER

<u>SHEET</u> DESIGNATOR	BINDING ORDER	SHEET TITLE
GI 001	1	GENERAL INFORMATION COVER SHEET
GI 002	2	GENERAL INFORMATION NOTES
GI 003	3	GENERAL INFORMATION PARCEL MAP
LD 101	4	LANDSCAPE DEMOLITION PLAN
LS 101	5	LANDSCAPE SITE PLAN
LS 102	6	LANDSCAPE SITE LAYOUT PLAN
LG 101	7	LANDSCAPE GRADING PLAN
LP 101	8	LANDSCAPE PLANTING PLAN
LI 101	9	LANDSCAPE IRRIGATION PLAN
SC 301-SC 304	10-13	LANDSCAPE SECTIONS
DT 501-DT 511	14-24	LANDSCAPE SITE DETAILS
DT 512	25	LANDSCAPE PLANTING DETAILS
DT 513-DT17	26-30	LANDSCAPE IRRIGATION DETAILS
S 000 - S 004	31-35	STRUCTURAL NOTES
S 100	36	PEDESTRIAN BRIDGE
S 200 - S 201	37 - 38	DELTA OVERLOOK
S 300	39	RETAINING WALL PLAN
S 301	40	RETAINING WALL SECTION AND SCHEDULE
S 400	41	TRASH SEPARATOR PLAN



PUBLIC UT	ILITIES DEVELOPMENT REVIEW	ENGINEER						
ĸ	ELLY JONES, P.E.	DATE	J					
	CITY ENGINEER		CITY PROJECT MANAGER		PARKS AND PUBLIC LANDS DIREC	FOR	TRAILS & NATURAL LANDS PROGRAM M	IANAGER
	W CASSEL, P.E., ENV-SP	DATE	STEPHANIE TOOMBS, P.E.	DATE	KRISTIN RIKER	DATE	LEWIS KOGAN	DATE

GENERAL NOTES

Project Limits

All construction activity shall be confined to the project limit of disturbance including any staging/stockpile areas. Do not disturb, excavate or work beyond project limits of disturbance without permission from the Owners Representative.

Site Mapping

Basis of bearing for plans is Utah State Plane Central Zone NAD' 83 US Survey foot Coordinates. Elevation datum is NAVD 88/Geoid model 1999. The base survey was provided by Salt Lake City Corporation. Verification of survey mapping is the responsibility of the Contractor.

Survey Staking

Survey staking is the responsibility of the Contractor. The Contractor may obtain CAD files from the Designer for staking and layout purposes.

Permits

The Contractor is required to comply with all construction related requirements in each permit issued for the project.

Utilities

The Contractor is responsible for locating and avoiding all utilities and service laterals, and for repairing all damage that occurs to the utilities due to the Contractor's activities. It is the responsibility of the Contractor to perform all utility locations at least 48 hours prior to excavation, call 1(800)662-4111. It is the responsibility of the Contractor to protect all existing utilities, including but not limited to fiber optic, sewer, water, gas and electric utilities encountered in the work. Any relocation or improvements of utilities shall be accurately noted on as-built drawings and issued to the Owners Representative at the completion of the project. Existing utility information obtained from Public Utilities' maps and other utility maps must be assumed as approximate and requiring field verification. Utilities are shown to best available information. Contractor is responsible to repair utility damage at no additional cost to Salt Lake City. Contact blue stakes or appropriate owner for communication line locations

Utility Clearance

Maintain 3' horizontal clearance from water and storm drains. 5' horizontal clearance from sanitary sewers, and 18" cover over and 12" under any Salt Lake City PUD pipe. All distances are to be measured outside to outside.

Utility Relocations

For utility conflicts requiring relocations, the contractor must notify the applicable utility company or user a minimum of 2-weeks in advance. A one-week minimum notification is required for conflicts requiring the relocation of service laterals. All relocations are subject to approval from the applicable utility company and/or user.

Safety

The Contractor is responsible for all aspects of safety of the project and shall meet all OSHA, State, County and other governing entity requirements. The Contractor is solely responsible for conforming to local and Federal codes governing shoring and bracing of excavations and trenches, and for the protection of workers. The Contractor is responsible for job site conditions and the safety for human life during the course of construction. This requirement shall apply continuously during the period of construction and is not limited to normal working hours.

Traffic Control and Haul Routes

Traffic control must conform to the most current edition of Salt Lake City Traffic Control Manual -Part 6 of "Manual On Uniform Traffic Control Devices" for Salt Lake County and state roads. SLC Transportation must approve all project haul routes (535-7129). The Contractor must also conform to UDOT, Salt Lake County or other applicable governing entities requirements for traffic control.

Temporary Construction Facilities

All temporary utilities and facilities will be the responsibility of the Contractor. A construction trailer is not required. Potable water is not available on site and shall be provided by the Contractor. A chemical toilet of suitable type shall be provided and maintained by the Contractor at all times.

Construction Spoils and Waste Handling

Items encountered below grade and not shown on the drawings shall be brought to the attention of the Owners Representative. All construction spoils and waste are the responsibility of the Contractor and shall be disposed of at an approved landfill facility.

Clearing and Grubbing

Existing on-site materials shall be carefully removed and stored for re-use, or disposed of at an approved landfill facility. All existing vegetation not in designated excavation areas and not designated for removal is to be protected in place. Completely remove stumps, roots, shrubs, weeds, and other debris protruding from the ground in areas to be excavated.

Site Earthwork and Grading

The Contractor is responsible for all site earthwork and grading activities to meet designs identified in plans and details, which are intended to show final result of design. Modifications may be required to suit job site conditions encountered during construction and shall be included in as-built drawings provided to the Owners Representative at completion of the project. All river channel banks and stream channel banks affected by construction activities shall be stabilized and protected throughout construction

Backfill and embankment material shall be composed of suitable excavated soils.

Existing topsoil shall be excavated and salvaged by Contractor for use in landscaping and grading activities. Topsoils used in landscaping shall have acidity range (pH) from 5.5 to 7.5 and a minimum organic content of 2%. Topsoil shall be placed at 80% to 90% maximum dry density and subsoil at 85% minimum compaction as determined by the Standard Proctor Method (ASTM D0698-66T or AASHTO T99). All existing topsoils shall be salvaged and utilized for revegetation activities to the extent possible

Site Construction Notes

All tree removal activities and site disturbance activities between April 1 and August 31 shall occur only after a Nesting Bird Survey has been conducted within the construction site footprint and all protocols and protective measures are followed.

All planting and seeding activities shall occur during the designated seeding and planting window from September 15 to December 1 unless in areas with irrigation or as otherwise authorized by the Owners Representative

Where ground conditions are damp and equipment traffic would result in excessive ground compaction and rutting, use construction mats to access active work areas.

Use a water truck or other suitable watering device as needed to control dust.

Inspect paved roads adjacent to the project site regularly for mud tracking; sweep roadways as needed and ensure roads are left clean at the end of each shift.

The Contractor shall keep job site area clean, hazard free and dispose of all debris, rubbish and construction waste, and remove all abandoned materials from the site. All disturbed staging and access areas are to be restored to pre-construction condition. The Contractor is responsible to reclaim (regrade, seed and mulch, replace trees and shrubs or turf sod) construction features not specified as remaining on the site and clean up all areas at the completion of the project.

The Contractor is responsible to keep access to Private Property open at all times during construction

The Contractor is responsible for installing water control measures as needed to perform streambank work in dry conditions. Water control measures include but are not limited to diversions, culverts, sumps with pumps or other means necessary to divert surface water away from the active work area. Adequate measures must be taken to remove all sediment prior to discharge.

Temporary Environmental/Safety Fence

Install fencing to demarcate active work areas as appropriate based on construction phasing.

Storm Water Pollution Prevention Plan Notes

1. No earth shall be disturbed until all erosion control measures are in place.

2. Erosion control measures will be maintained and remain in place until re-vegetation measures have been achieved

3. The Contractor is responsible for submittal of NOI and acquisition of UPDES Storm Water General Permit for Construction Activities (UTR300000) and for SWPPP design, layout, installation, inspection and maintenance of erosion/sediment controls. The Contractor is responsible to submit SWPPP to Salt Lake City for review prior to initiating any disturbances. Adjust locations of measures and install additional measures as construction phasing requires. Disturbed areas where construction activity has ceased will be stabilized in accordance with State UPDES and Salt Lake City requirements.

4. The Contractor is responsible for implementing and utilizing Best Management Practices (BMPs) to prevent storm water runoff and water pollution during construction activities. The Contractor is responsible for supplying equipment and plans that provide both dust and fire control during project construction. Use caution when working in and around wet areas. If potential hazardous materials are encountered, contact the Owners Representative immediately.

Grading And Drainage Plan Notes

1. Contractor to stake the boundary of the grading area for approval from the Owners Representative prior to initiating grading activities.

2. Contractor is responsible for erosion, dust and temporary drainage control during grading operations.

- 3. Fill areas are to be compacted throughout to a minimum of 90% relative compaction.
- 4. Contractor is responsible for the location and protection of all utilities.
- 5. Export soil, if any, must be transported to a legal landfill or permitted site.

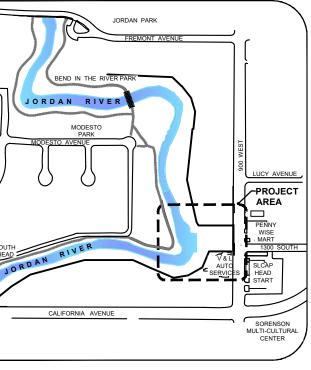


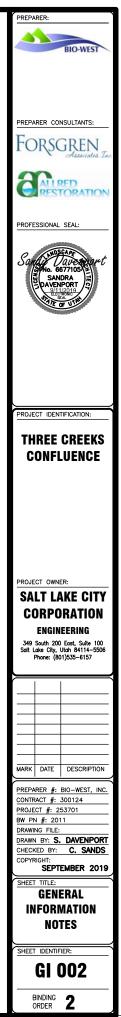
ABBREVIATIONS

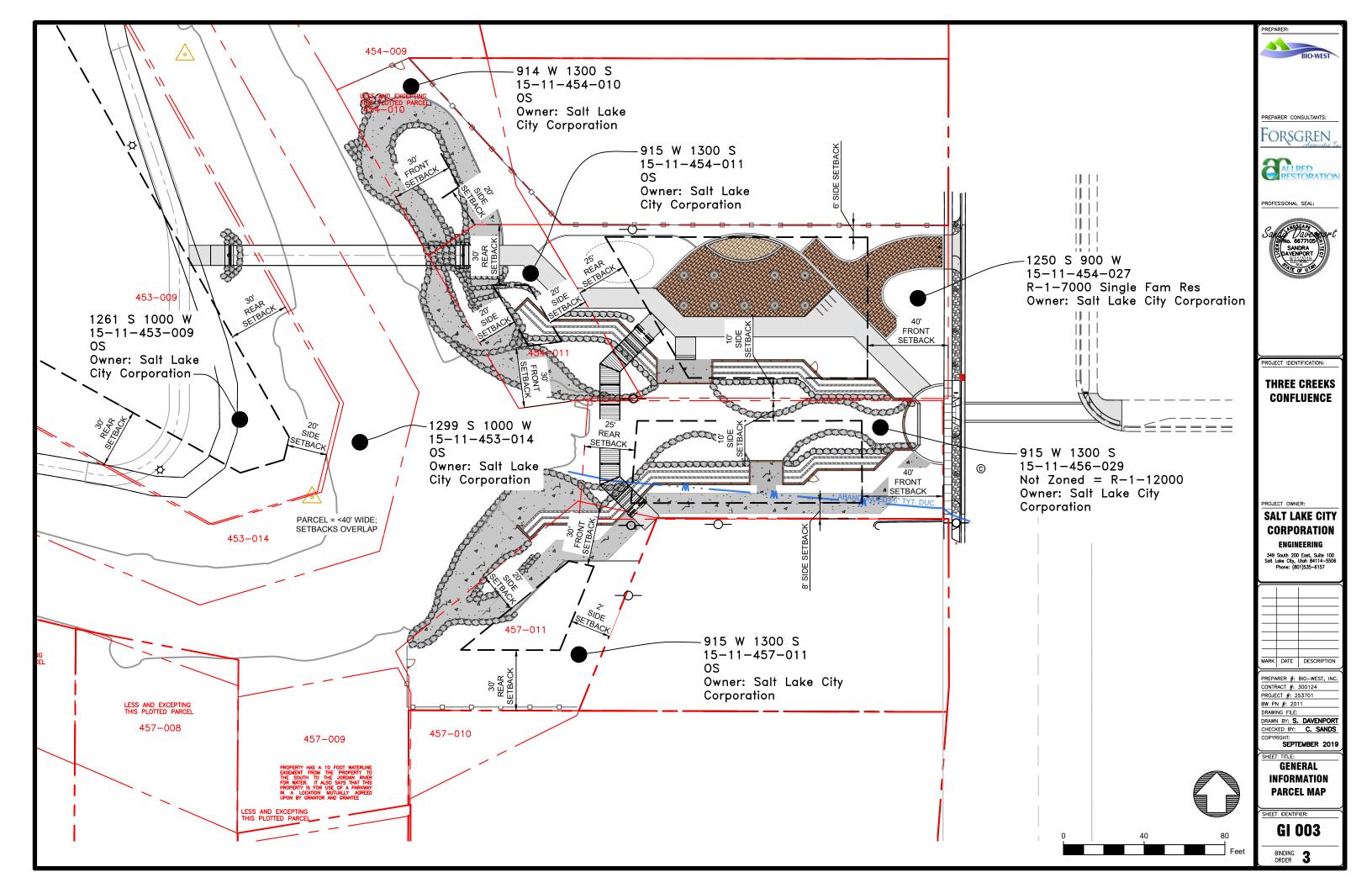
APPROX AVG BC BM BOC BW CAL CL CY DIA ΕX FG HORIZ MAX MIN MISC NIC NO NTS OC REQ'D ROW SF SHT тс тw TYP VERT

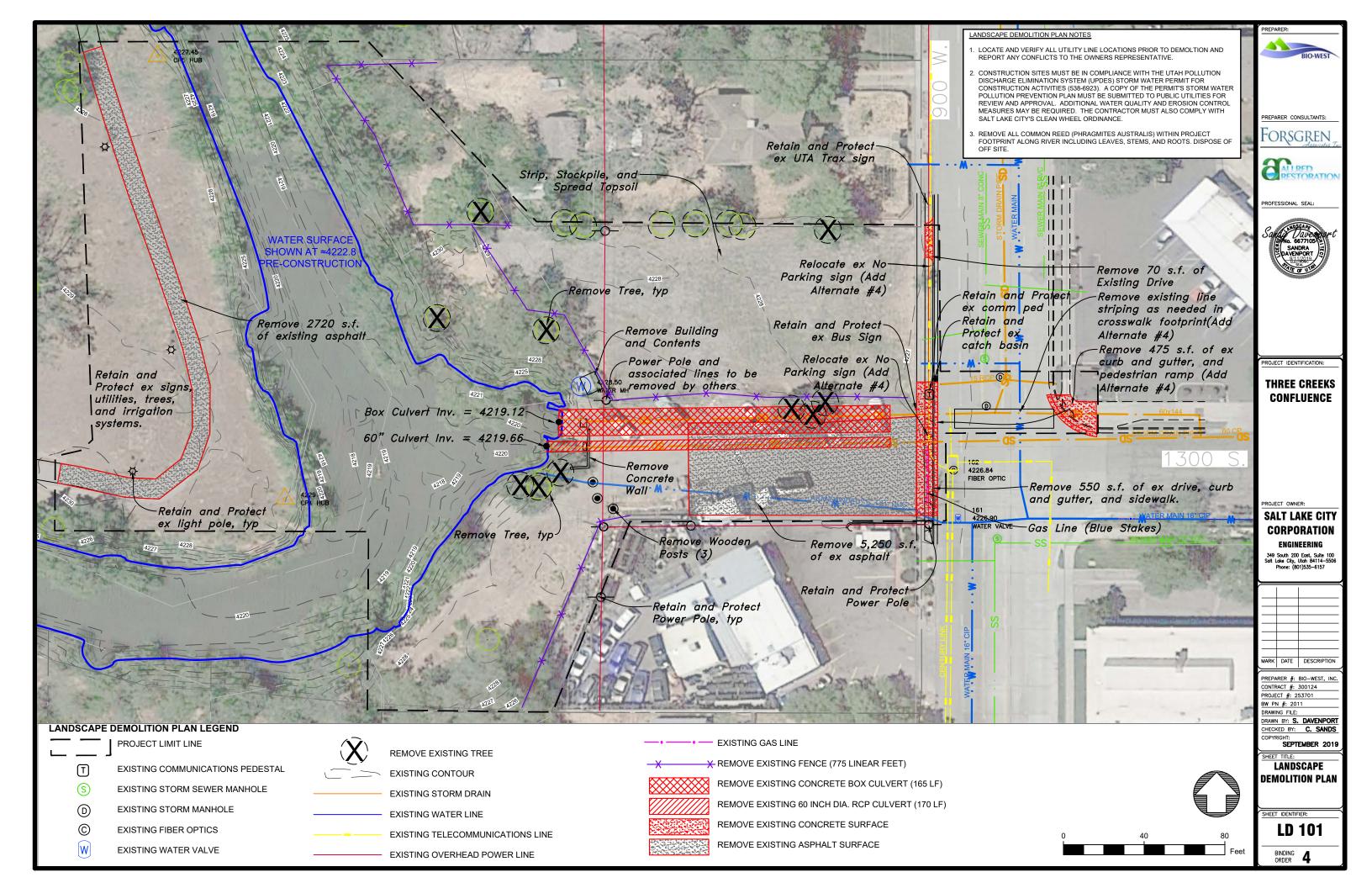
APPROXIMATE AVERAGE BOTTOM OF CURB BENCHMARK BACK OF CURB BOTTOM OF WALL CALIPER CENTERLINE CUBIC YARD DIAMETER **ELEVATION** EXISTING **FINISH GRADE** HORIZONTAL HIGH POINT INCHES LINEAR FEET LOW POINT MAXIMUM MINIMUM MISCELLANEOUS NOT IN CONTRACT NUMBER NOT TO SCALE ON CENTER REQUIRED **RIGHT OF WAY** SQUARE FOOT SHEET TOP OF CURB TOP OF WALL **TYPICAL** VERTICAL

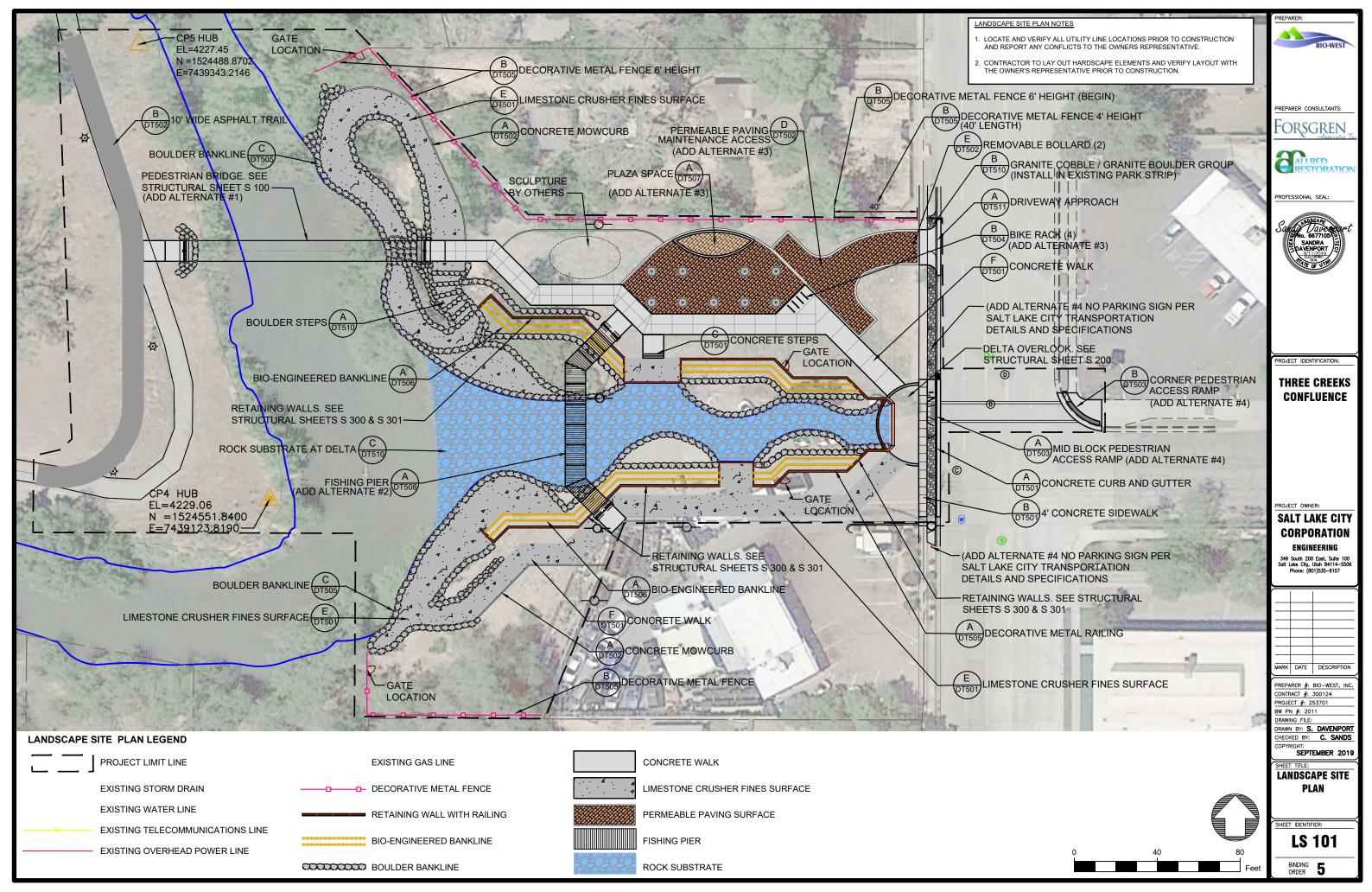
SITE ORIENTATION KEY

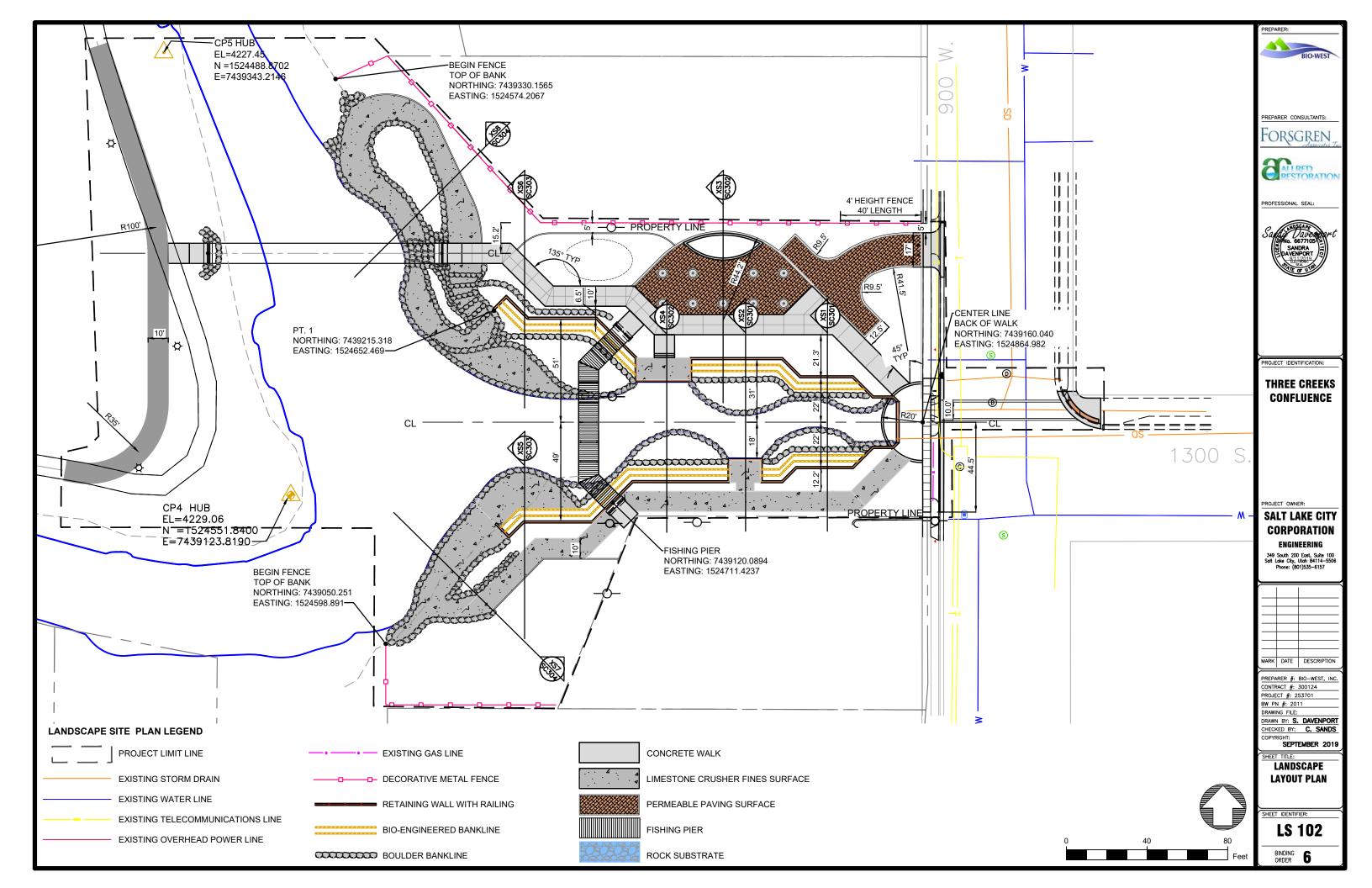


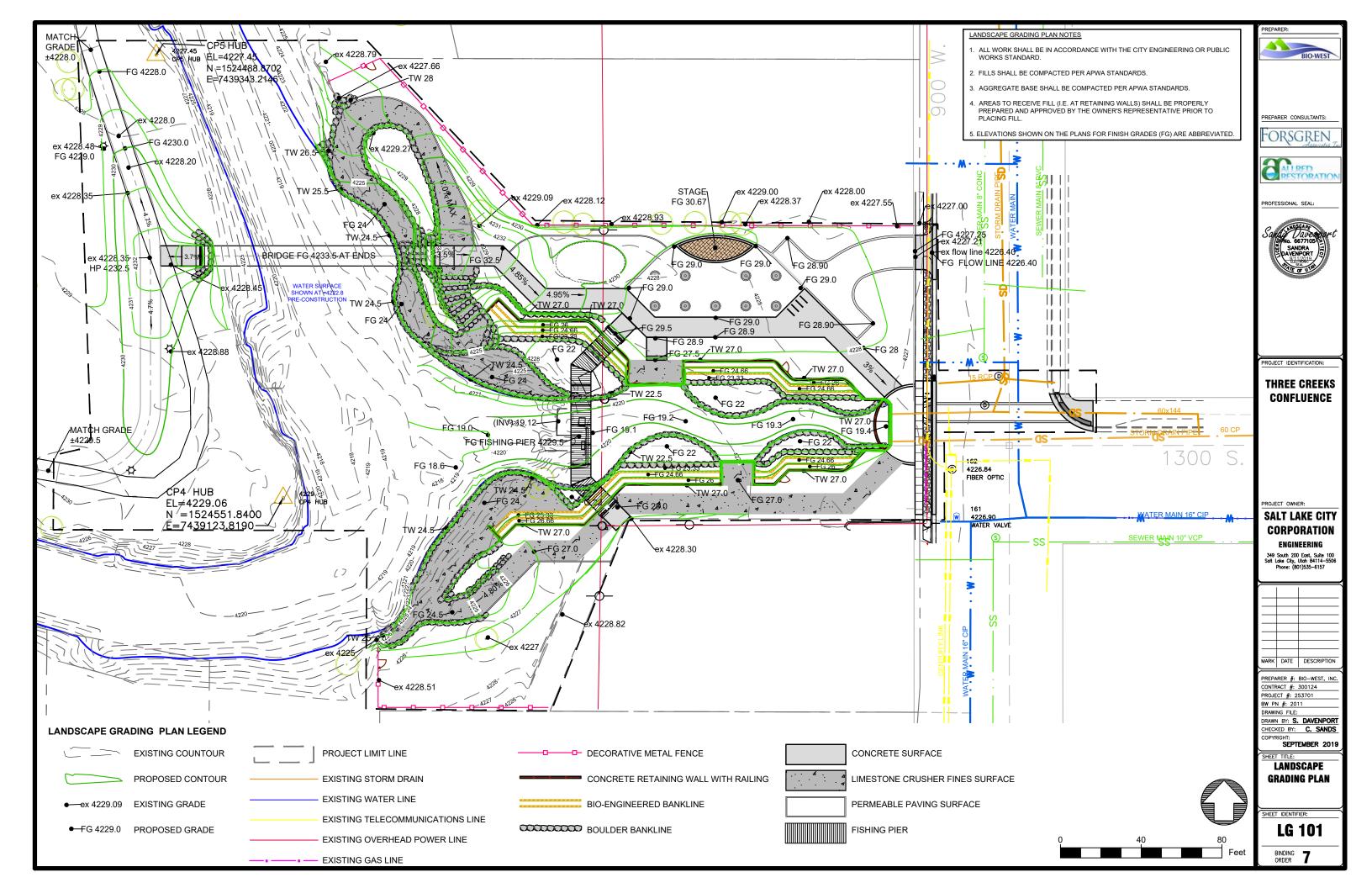


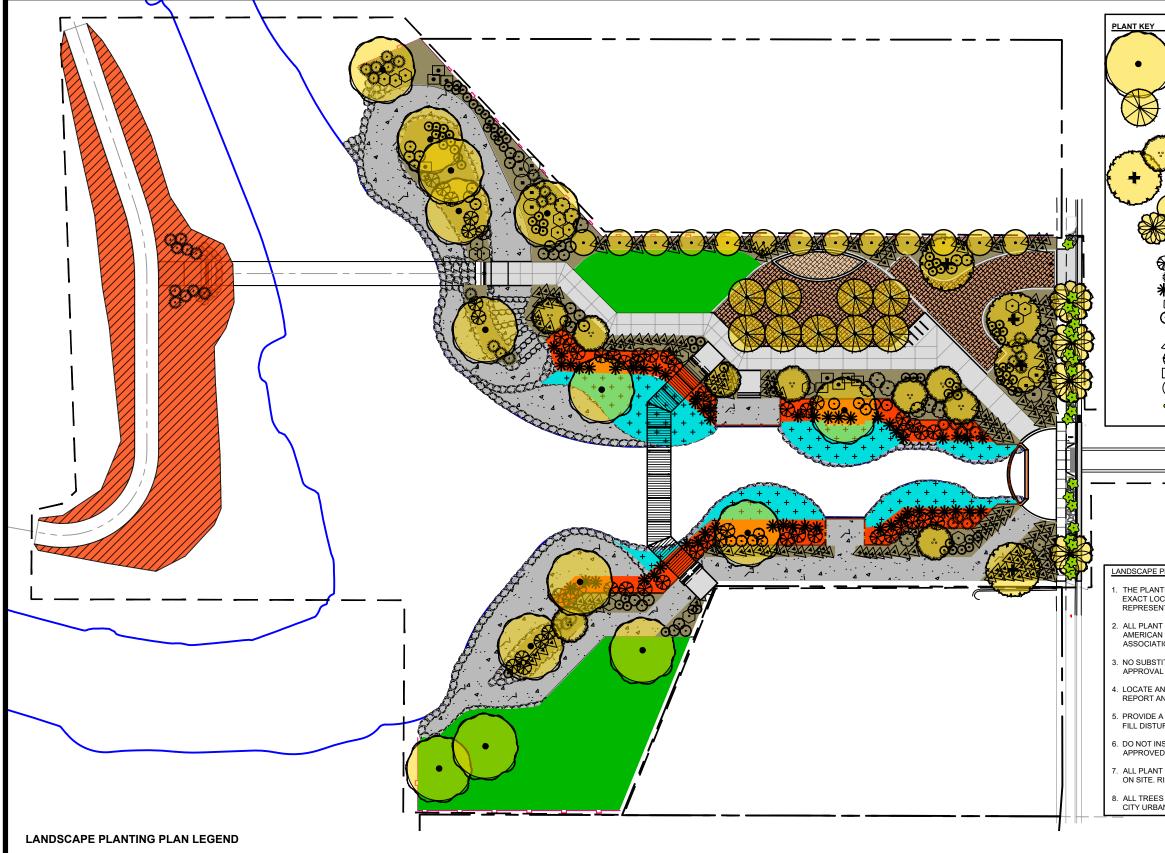














BIO-NATIVE SOD: 34% STREAMBANK WHEATGRASS, 33% WESTERN WHEATGRASS, 33% THICKSPIKE WHEATGRASS. AVAILABLE THROUGH BIOGRASS SEED FARMS



WETLAND SOD: SEDGES, SPIKERUSHES, RUSHES. PRE-VEGETATED (NATIVE) COIR EROSION CONTROL MAT. EACH MAT = 3.3 FEET WIDE X 16.4 FEET LONG X 4 INCHES THICK. AVAILABLE THROUGH NORTH FORK NATIVE PLANTS.



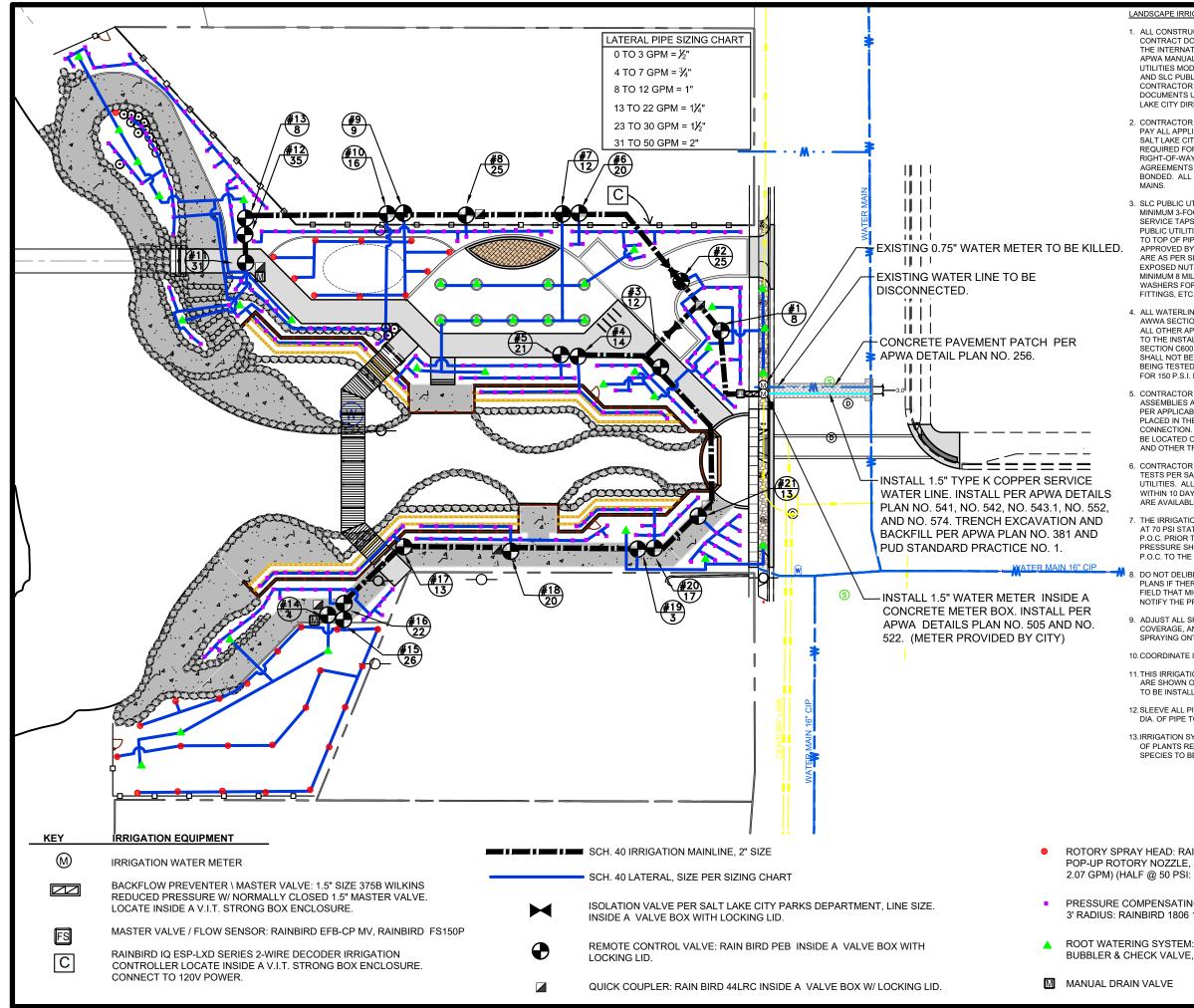
NATIVE SEED MIX. SEE SHEET DT 512.



NATIVE SEED MIX AND HYDROMULCH

SHREDDED BARK MULCH (4 INCHES THICK)

		PREPARER:
BOT	ANICAL / COMMON NAME / HYDROZONE / QUANTITY	
		BIO-WEST
	LARGE TREES: 2" CALIPER	
Å	POPULUS FREMONTII / FREMONT COTTONWOOD / NA /14 QTY	
	ACER GRANDIDENTATUM 'ROCKY MOUNTAIN GLOW'/ NA / 6 QTY	
)		PREPARER CONSULTANTS:
	MEDIUM PARK TREES: 2" CALIPER	Forsgren
	BETULA OCCIDENTALIS / WATER BIRCH / NA / 9 QTY	Associates Inc.
	ACER NEGUNDO 'SENSATION' / BOXELDER / NA / 4 QTY	
Ĵ	SMALL PARK TREES: 2" CALIPER	RESTORATION
	PRUNUS VIRGINIANA / CHOKECHERRY / NA / 13 QTY	
Di	CERCIS CANADENSIS / EASTERN REDBUD / Td4 / 4 QTY	PROFESSIONAL SEAL:
P	SHRUBS: 5 GALLON	NUSCAP
- 675		Sandy Davesport
Š	CS CORNUS SERICEA / RED-OSIER DOGWOOD / NA / 45 QTY	
*	RW ROSA WOODSII / WOODS ROSE / Sd2 / 38 QTY SE SALIX EXIGUA / COYOTE WILLOW / NA / 54 QTY	9/11/2019 SELECIMONIC SEAL SEAL CITY OF STATE
\odot	AA AMELANCHIER ALNIFOLIA / SERVICEBERRY / Sd1 / 16 QTY	
Q	DF DASIPHORA FRUTICOSA / CINQUEFOIL / Sd2 / 40 QTY	
O A	EN ERICAMERIA NAUSEOSA / RABBITBRUSH/ Sd0 / 60 QTY	
A	MR MAHONIA REPENS / CREEPING MAHONIA / GV1 / 190 QTY RT RHUS TRILOBATA / SKUNKBUSH / Sd0 / 8 QTY	
$\overline{\bullet}$	RA RIBES AUREUM / GOLDEN CURRANT / Sd0 / 8 GTT	
$\overline{\bullet}$	SA SYMPHORICARPOS ALBUS / SNOWBERRY / Sd2 / 11 QTY	
(3	PERENNIALS: ROCKY MTN COLOMBINE, LANCELEAF TICKSEED,	PROJECT IDENTIFICATION:
	PURPLE CONEFLOWER WASATCH PENSTEMON /P1 - P2	THREE CREEKS
		CONFLUENCE
E PLAN	TING PLAN NOTES	PROJECT OWNER:
	PLAN IS DIAGRAMMATIC. PLANT LOCATIONS ARE APPROXIMATE. DNS OF PLANT MATERIALS TO BE APPROVED BY THE OWNERS	SALT LAKE CITY
	Site St. 1 Burn Invite Rules TO BE ALL NOVED BT THE OWNERS	
N STA	VE IN THE FIELD PRIOR TO INSTALLATION.	CORPORATION
	VE IN THE FIELD PRIOR TO INSTALLATION. ERIAL SHALL CONFORM TO THE GUIDELINES ESTABLISHED BY "THE NDARD FOR NURSERY STOCK", PUBLISHED BY THE AMERICAN DF NURSERYMEN, INC.	
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LANDSCAPE IRRIGATION PLAN NOTES

1. ALL CONSTRUCTION AND MATERIALS SHALL BE IN ACCORDANCE WITH THESE CONTRACT DOCUMENTS AND THE MOST RECENT EDITIONS OF THE FOLLOWING THE INTERNATIONAL PLUMBING CODE, UTAH DRINKING WATER REGULATIONS, APWA MANUAL OF STANDARD PLANS AND SPECIFICATIONS, AND SLC PUBLIC UTILITIES MODIFICATIONS TO APWA STANDARD PLANS AND APPROVED MATERIALS AND SLC PUBLIC UTILITIES APWA SPECIFICATIONS MODIFICATIONS. THE CONTRACTOR IS REQUIRED TO ADHERE TO ALL OF THE ABOVE-MENTIONED DOCUMENTS UNLESS OTHERWISE NOTED AND APPROVED IN WRITING BY THE SALT LAKE CITY DIRECTOR OF PUBLIC UTILITIES.

2. CONTRACTOR MUST OBTAIN ALL THE NECESSARY PERMITS AND AGREEMENTS AND PAY ALL APPLICABLE FEES PRIOR TO ANY CONSTRUCTION ACTIVITIES. CONTACT SALT LAKE CITY ENGINEERING (535-6248) FOR PERMITS AND INSPECTIONS REQUIRED FOR ANY WORK CONDUCTED WITHIN SALT LAKE CITY'S PUBLIC RIGHT-OF-WAY. APPLICABLE UTILITY PERMITS MAY INCLUDE MAINLINE EXTENSION AGREEMENTS AND SERVICE CONNECTION PERMITS. ALL UTILITY WORK MUST BE BONDED. ALL CONTRACTORS MUST BE LICENSED TO WORK ON CITY UTILITY

3. SLC PUBLIC UTILITIES MUST APPROVE ALL WATER SERVICE CONNECTIONS. A MINIMUM 3-FOOT SEPARATION IS REQUIRED BETWEEN ALL WATER AND FIRE SERVICE TAPS INTO THE MAIN. ALL CONNECTIONS MUST BE MADE MEETING SLC PUBLIC UTILITIES REQUIREMENTS. A 5-FOOT MINIMUM BURY DEPTH (FINAL GRADE TO TOP OF PIPE) IS REQUIRED ON ALL WATER/FIRE LINES UNLESS OTHERWISE APPROVED BY PUBLIC UTILITIES. WATER LINE THRUST BLOCK AND RESTRAINTS ARE AS PER SLC APPROVED DETAIL DRAWINGS AND SPECIFICATIONS. ALL EXPOSED NUTS AND BOLTS WILL BE COATED WITH CHEVRON FM1 GREASE PLUS MINIMUM 8 MIL THICKNESS PLASTIC. PROVIDE STAINLESS STEEL NUTS, BOLTS ANI WASHERS FOR HIGH GROUNDWATER/ SATURATED CONDITIONS AT FLANGE

4. ALL WATERLINES INSTALLATIONS AND TESTING TO BE IN ACCORDANCE WITH AWWA SECTIONS C600, C601, C651, C206, C200, C900, C303 AWWA MANUAL M11 AND ALL OTHER APPLICABLE AWWA, UPWS, ASTM AND ANSI SPECIFICATIONS RELEVANT TO THE INSTALLATION AND COMPLETION OF THE PROJECT. AMENDMENT TO SECTION C600 SECTION 4.1.1; DOCUMENT TO READ MINIMUM TEST PRESSURE SHALL NOT BE LESS THAN 200 P.S.I. GAUGED TO A HIGH POINT OF THE PIPELINE BEING TESTED. ALL MATERIALS USED FOR WATERWORKS PROJECTS TO BE RATED FOR 150 P.S.I. MINIMUM OPERATING PRESSURE

5. CONTRACTOR IS TO INSTALL WATER SERVICE LINES. METER YOKES AND/OR ASSEMBLIES AND METER BOXS WITH LIDS LOCATED AS APPROVED ON THE PLANS PER APPLICABLE PUBLIC UTILITIES DETAIL DRAWINGS. METER BOXES ARE TO BE PLACED IN THE PARK STRIPS PERPENDICULAR TO THE WATERMAIN SERVICE TAP CONNECTION. ALL WATER METERS AND BACKFLOW PREVENTION DEVICES MUST BE LOCATED OUTSIDE OF ALL APPROACHES, DRIVEWAYS, PEDESTRIAN WALKWAY AND OTHER TRAVELED WAYS UNLESS OTHERWISE APPROVED ON PLANS.

6. CONTRACTOR SHALL BE RESPONSIBLE TO PERFORM BACKFLOW PREVENTION TESTS PER SALT LAKE CITY STANDARDS AND SUBMIT RESULTS TO PUBLIC UTILITIES. ALL TESTS MUST BE PERFORMED AND SUBMITTED TO PUBLIC UTILITIES WITHIN 10 DAYS OF INSTALLATION OR WATER TURN-ON. BACKFLOW TEST FORMS ARE AVAILABLE AT PUBLIC UTILITIES' CONTRACTS AND AGREEMENTS OFFICE.

7 THE IRRIGATION SYSTEM IS DESIGNED FOR MAXIMUM OF 35 GALLONS PER MINUTE AT 70 PSI STATIC MIN. VERIFY THE AVAILABLE WATER PRESSURE OF 110 PSI AT THE P.O.C. PRIOR TO CONSTRUCTION. REPORT ANY DIFFERENCE BETWEEN THE WATER PRESSURE SHOWN ON THE PLANS AND THE ACTUAL PRESSURE READING AT THE P.O.C. TO THE OWNER'S REPRESENTATIVE IN WRITING

DO NOT DELIBERATELY INSTALL THE IRRIGATION SYSTEM AS SHOWN ON THESE PLANS IF THERE ARE ANY OBVIOUS OBSTRUCTIONS OR INCONSISTENCIES IN THE FIELD THAT MIGHT NOT HAVE BEEN ANTICIPATED IN THE IRRIGATION DESIGN. NOTIFY THE PROJECT MANAGER OF ANY SUCH DIFFERENCE

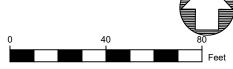
9. ADJUST ALL SPRINKLER HEADS, VALVES AND EQUIPMENT FOR OPTIMUM COVERAGE, AND ADJUST ARC RADIUS AND NOZZLE OF EACH SPRINKLER TO AVOID SPRAYING ONTO WALKS, STREETS, ETC.

10. COORDINATE IRRIGATION HEAD LOCATIONS WITH PLANT MATERIAL PLACEMENT.

11. THIS IRRIGATION DESIGN IS DIAGRAMMATIC. WHERE VALVES, PIPING AND ETC. ARE SHOWN OUTSIDE OF PLANTING AREAS, THE INTENT IS FOR THIS EQUIPMENT TO BE INSTALLED WITHIN THE PLANTING AREAS.

12. SLEEVE ALL PIPE UNDER PAVING OR WALLS ETC. WITH SCH. 40 PVC PIPE THAT IS 2X DIA. OF PIPE TO BE SLEEVED.

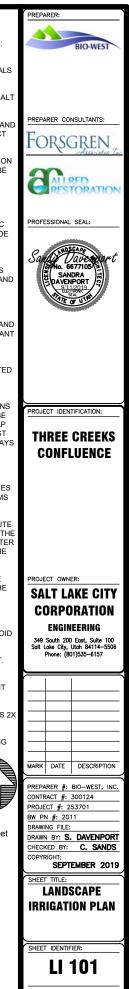
13. IRRIGATION SYSTEM ZONES TO BE CONSTRUCTED FOR APPROPRIATE WATERING OF PLANTS RELATIVE TO THEIR HYDRO ZONE FOR EACH OF THE PRESCRIBED SPECIES TO BE PLANTED. HYDROZONES ARE SHOWN ON SHEET LP 10"



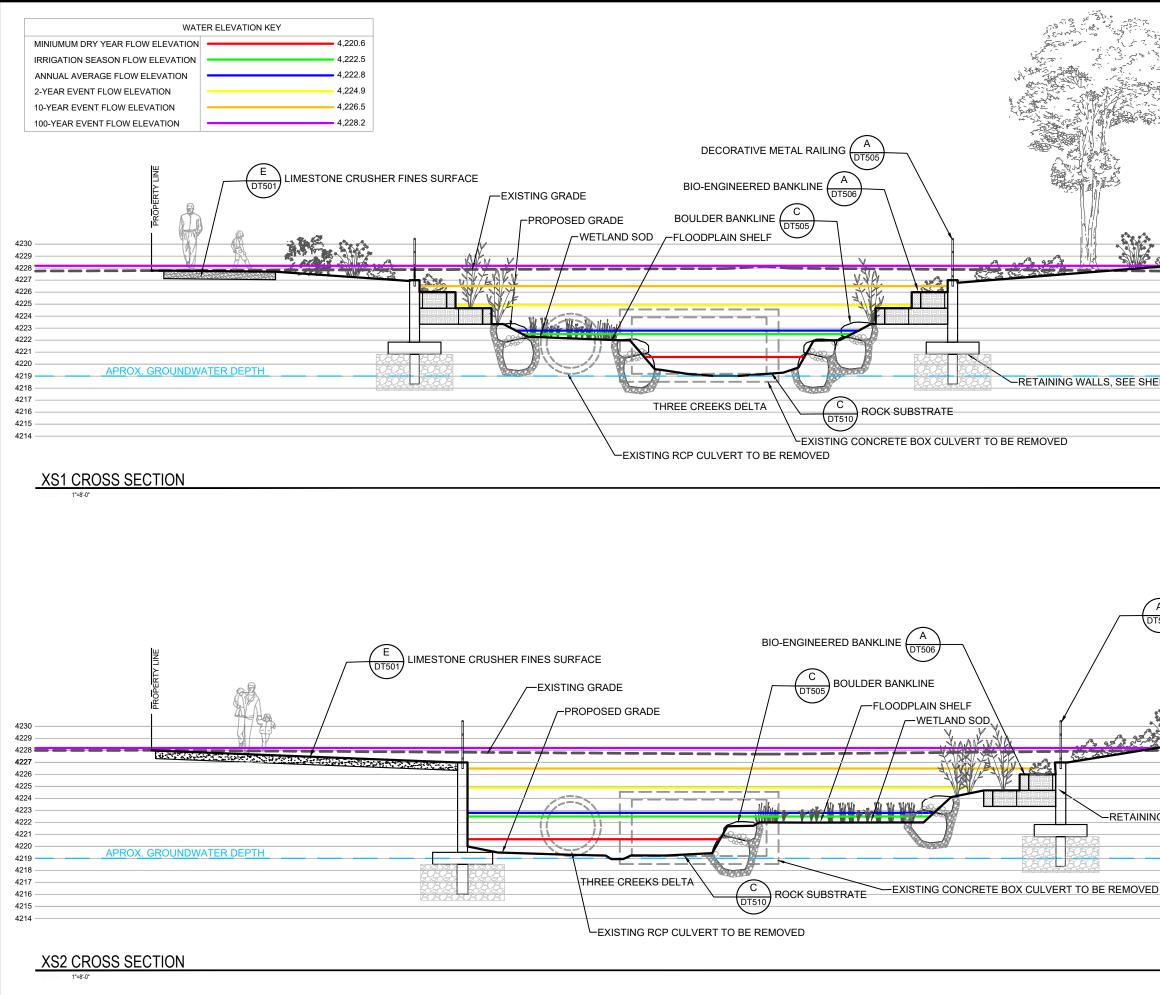
ROTORY SPRAY HEAD: RAIN BIRD 1800-SAM-PRS-12-R-VAN-1318, 12" POP-UP ROTORY NOZZLE, 13'-18' RADIUS RANGE (FULL @ 50 PSI: 18' RAD. 2.07 GPM) (HALF @ 50 PSI: 18' RAD. 1.03 GPM)

PRESSURE COMPENSATING FULL-CIRCLE BUBBLER, UMBRELLA PATTERN, 3' RADIUS: RAINBIRD 1806 1404 NOZZLE (1 GPM)

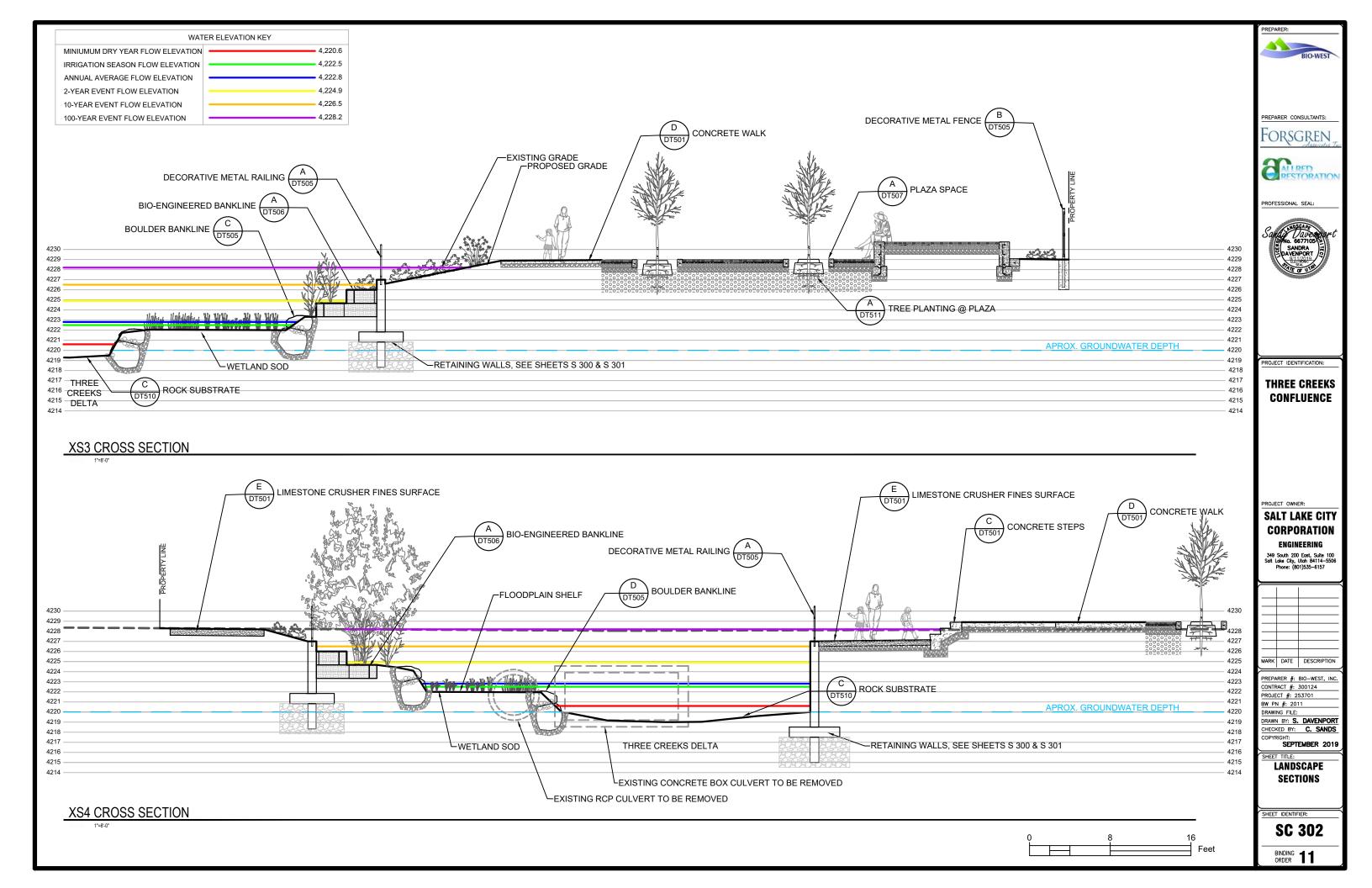
ROOT WATERING SYSTEM: RAINBIRD RWSBC1402 - 36" TUBE, 0.5 GPM BUBBLER & CHECK VALVE, 4" GRATE. TWO PER TREE.

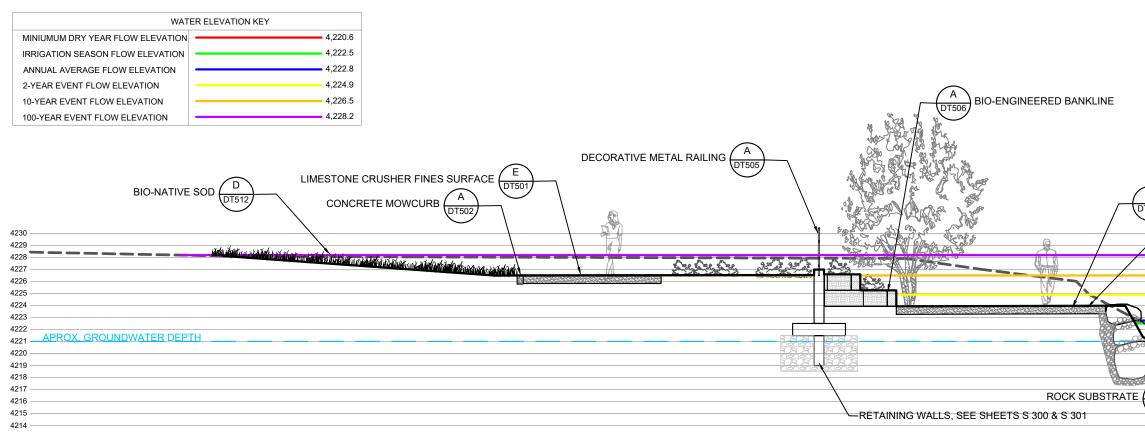


BINDING ORDER

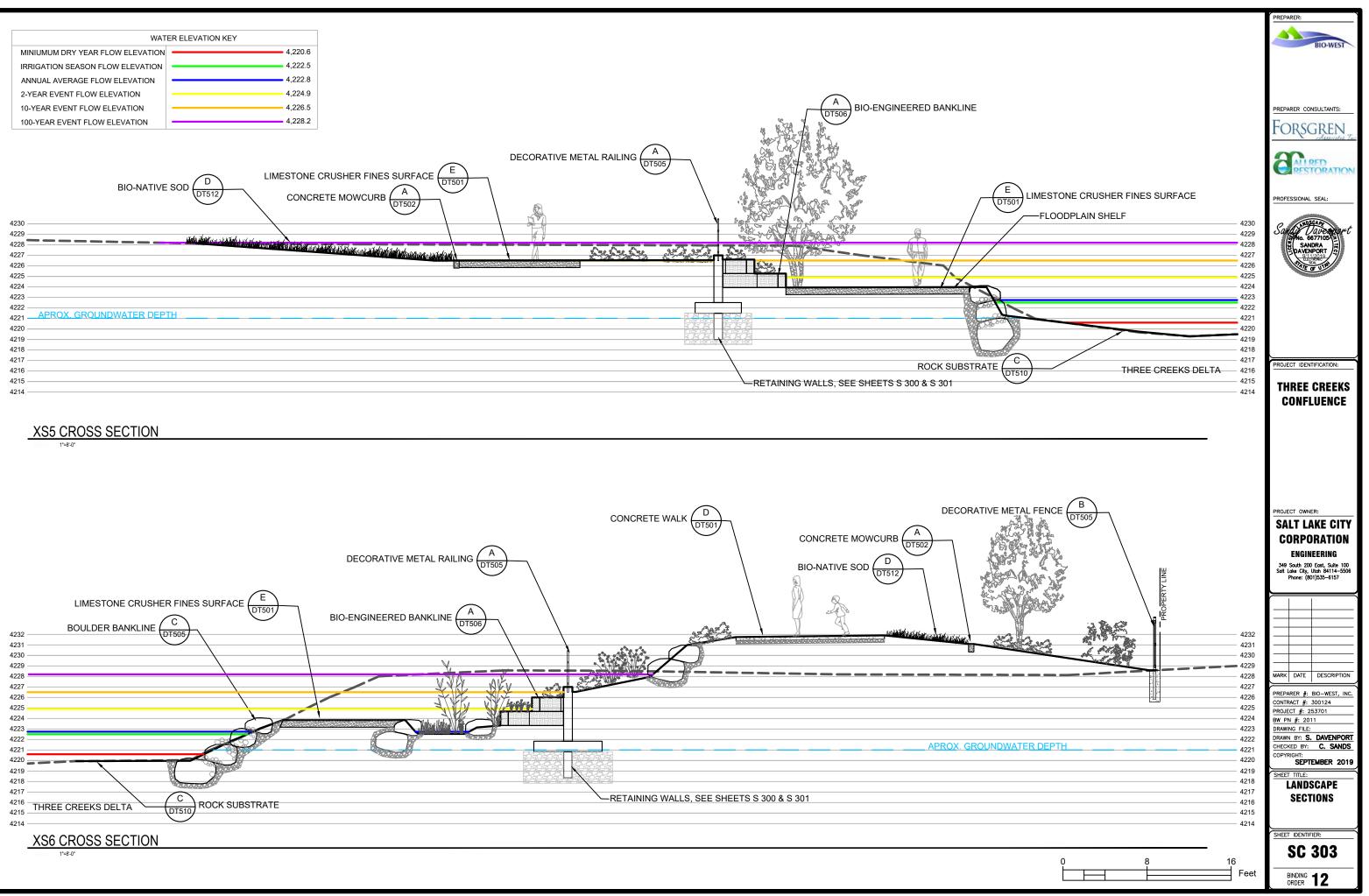


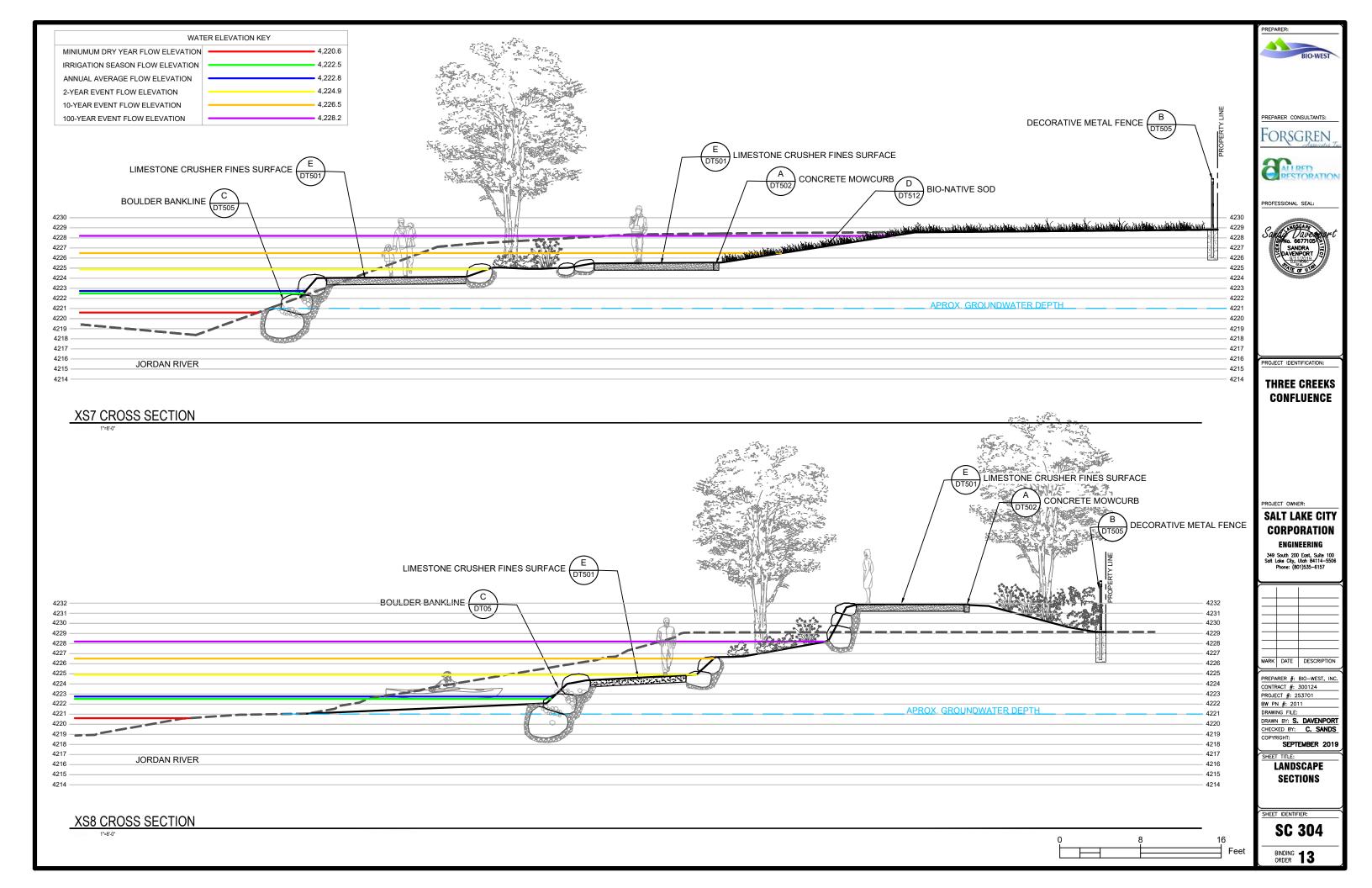
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		PROJECT OWNER: SALT LAKE CITY CORPORATION
E CONCRETE WALK		ENGINEERING 349 South 200 East, Suite 100 Salt Lake City, Utah 84114-5506 Phone: (801)535-6157
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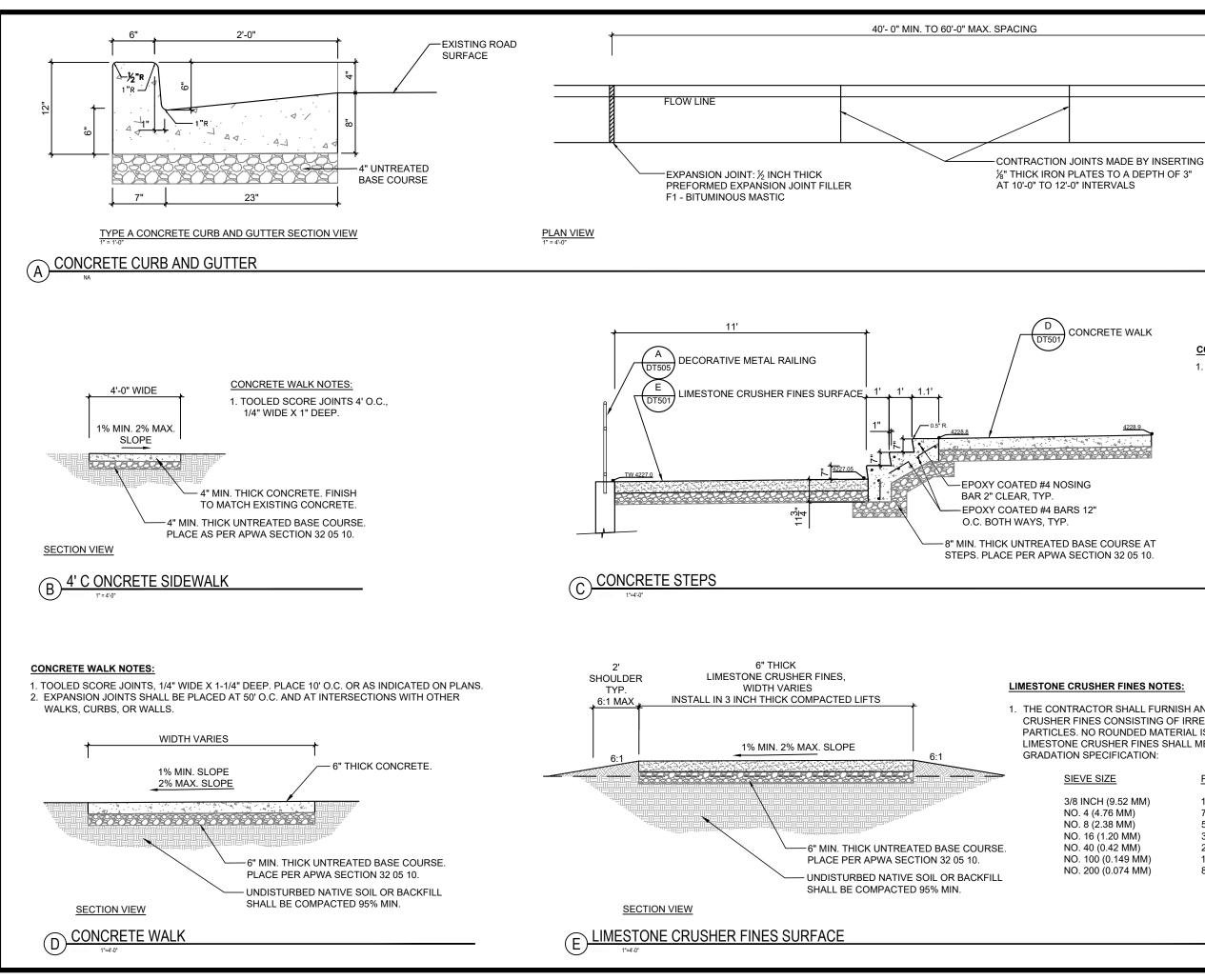


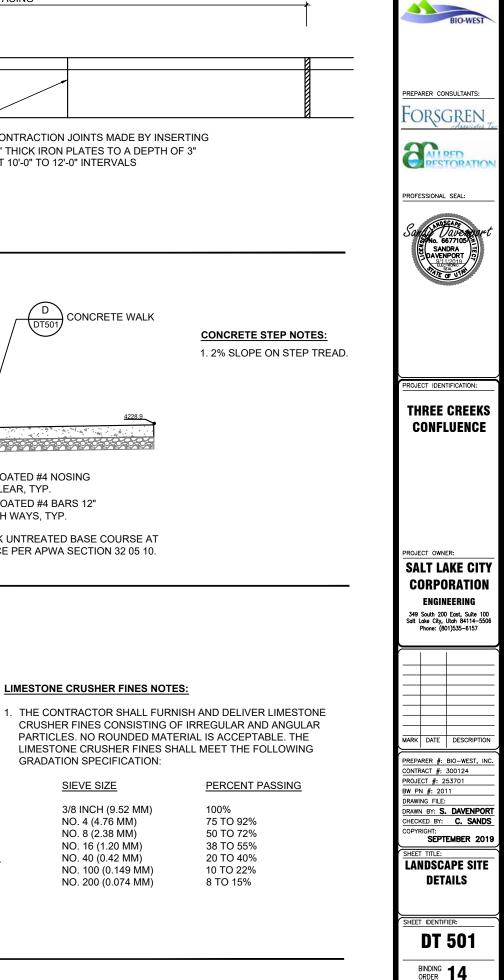


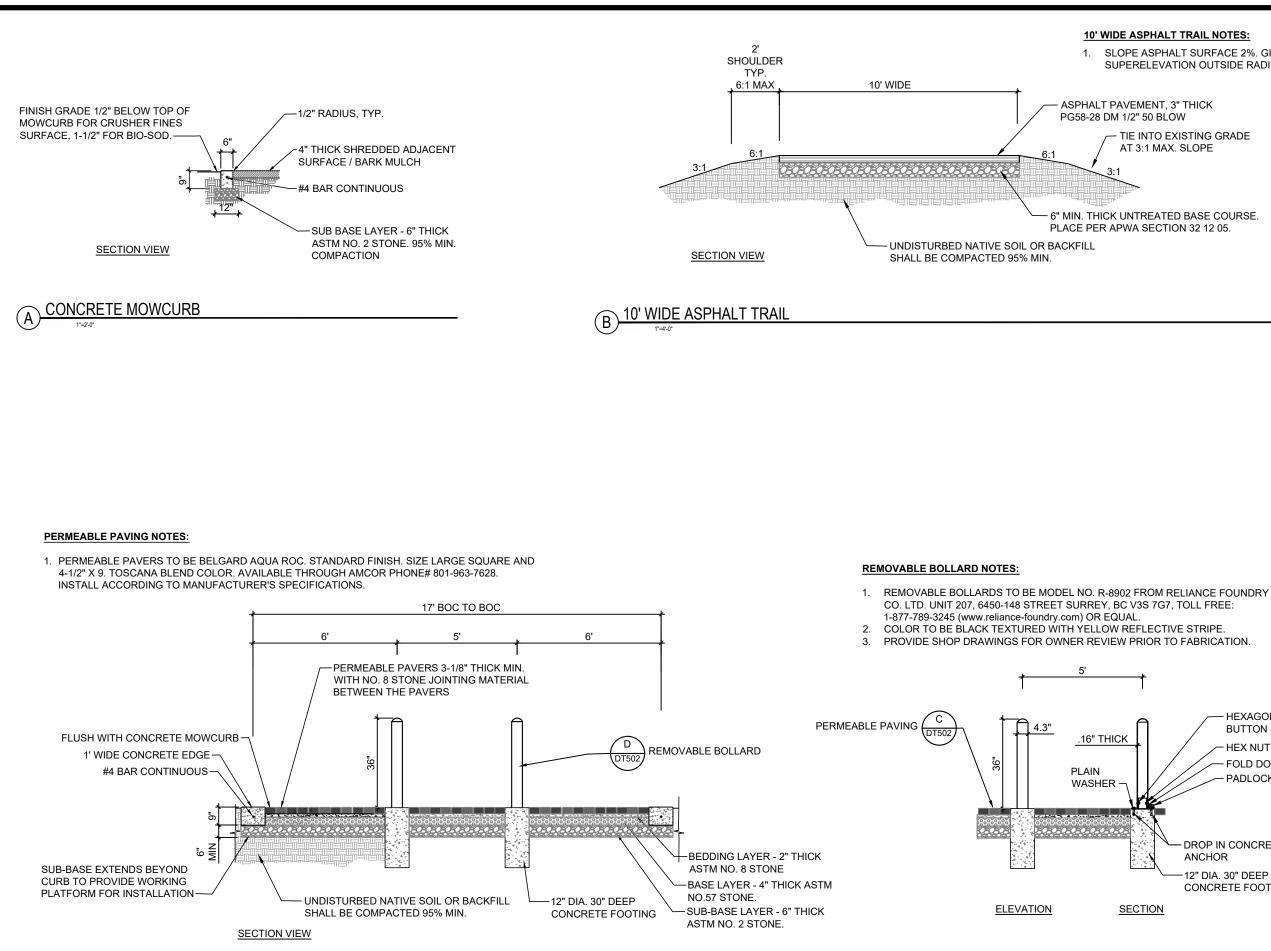
1"=8'-0











PERMEABLE PAVING - AT MAINTENANCE ACCESS (ADD ALTERNATE #3) (C)

REMOVABLE BOLLARD - FOLD DOWN MOUNT

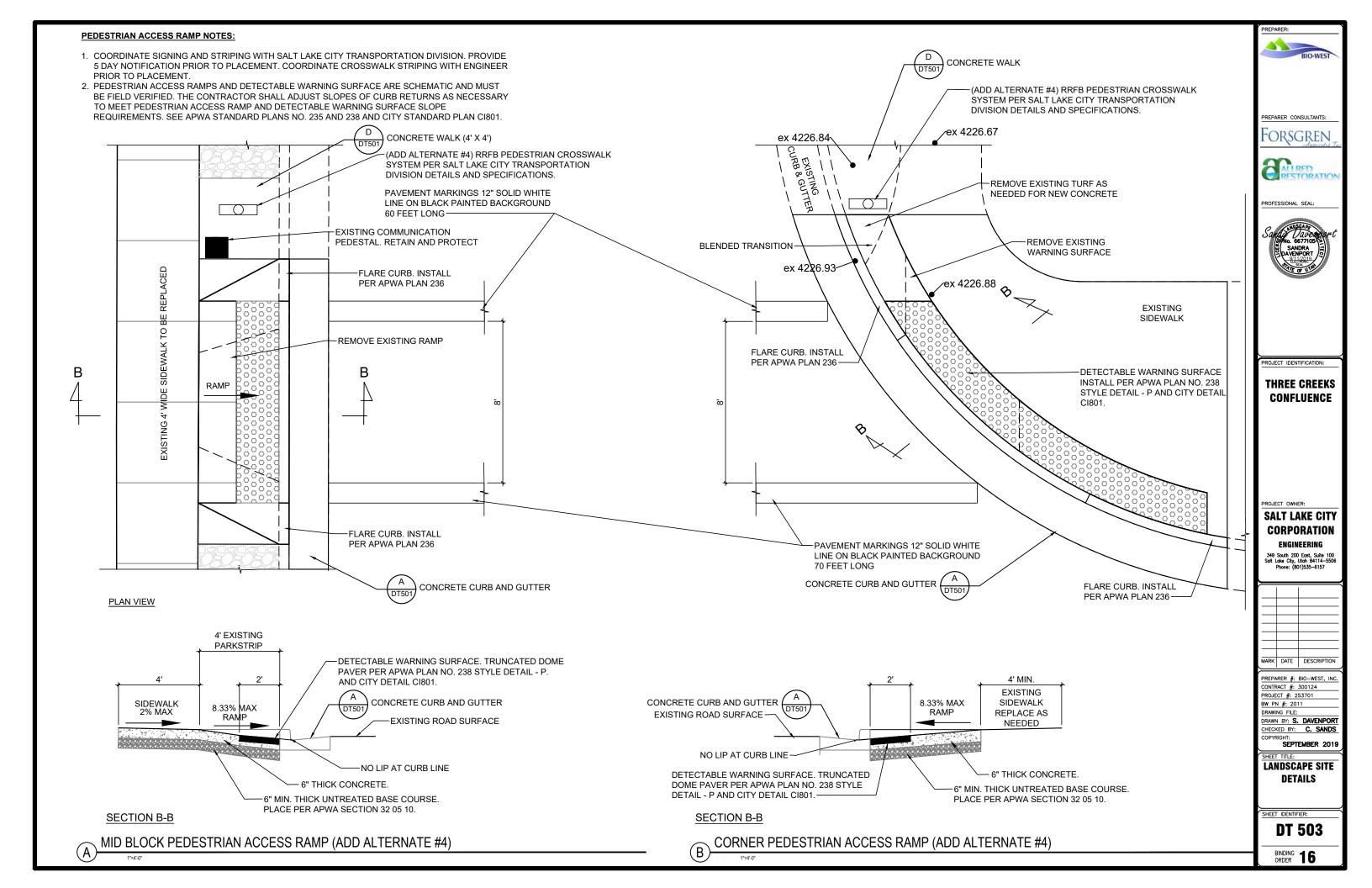
10' WIDE ASPHALT TRAIL NOTES:

SLOPE ASPHALT SURFACE 2%. GIVE HIGHER ELEVATION TO SUPERELEVATION OUTSIDE RADIUS WHERE APPLICABLE.

TIE INTO EXISTING GRADE AT 3:1 MAX. SLOPE

٦	HEXAGON SOCKET BUTTON HEAD CAP SCREW
	HEX NUT
	FOLD DOWN BASE
	PADLOCK PROVIDED BY OWNER
·]	DROP IN CONCRETE ANCHOR
	12" DIA. 30" DEEP CONCRETE FOOTING
<u>FION</u>	

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PREPARER:)
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	BIO-WEST
	INSULTANTS:
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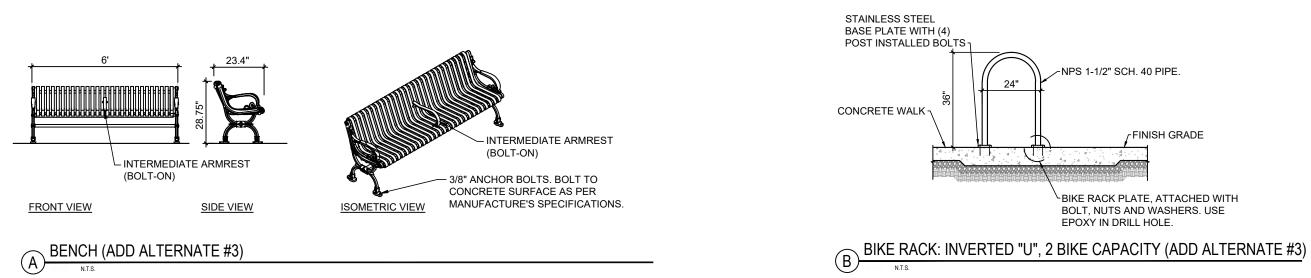
BENCH NOTES:

1. BENCH IS TO BE VICTOR STANLEY MODEL NO. CR-10 CLASSIC SERIES, 6 FOOT. BLACK WITH INTERMEDIATE ARM REST. OR EQUAL.

- 2. ALL FABRICATED METAL COMPONENTS ARE POWDER-COATED STEEL.
- 3. CONTRACTOR TO FURNISH ANCHOR BOLTS.
- 4. LOCATION TO BE DETERMINED BY OWNER.

BIKE RACK NOTES:

- ECONOMIC DEVELOPMENT.
- 2. COLOR TO BE BLACK TEXTURED PAINT OVER GALVANIZATION.

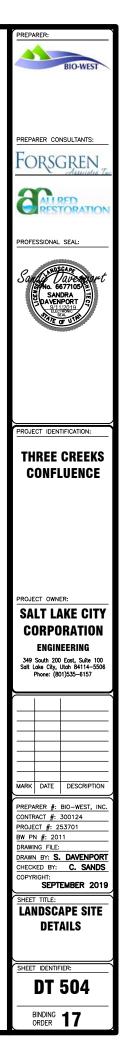


1. BIKE RACK TO BE PER SLCTRANS.COM STANDARD BICYCLE PARKING SECTION F1.f2 AND F1.q1 OF THE DIVISION OF TRANSPORTATION SALT LAKE CITY COMMUNITY &

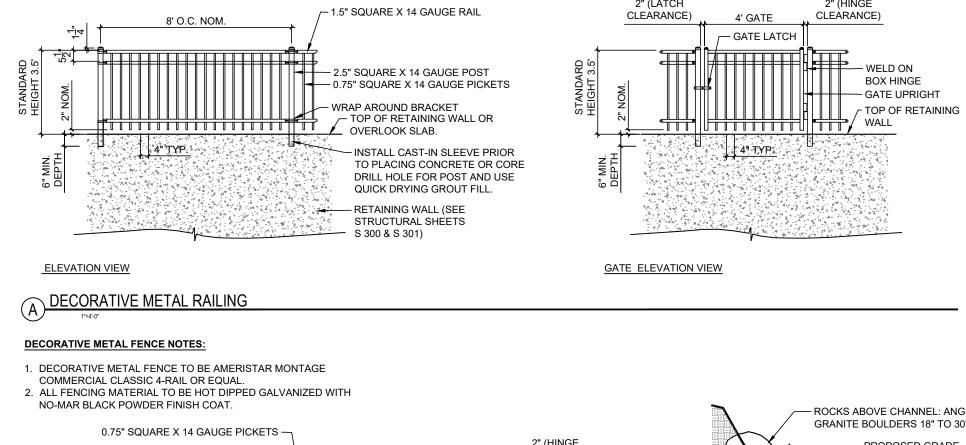
3. PROVIDE SHOP DRAWINGS FOR OWNER REVIEW PRIOR TO FABRICATION.

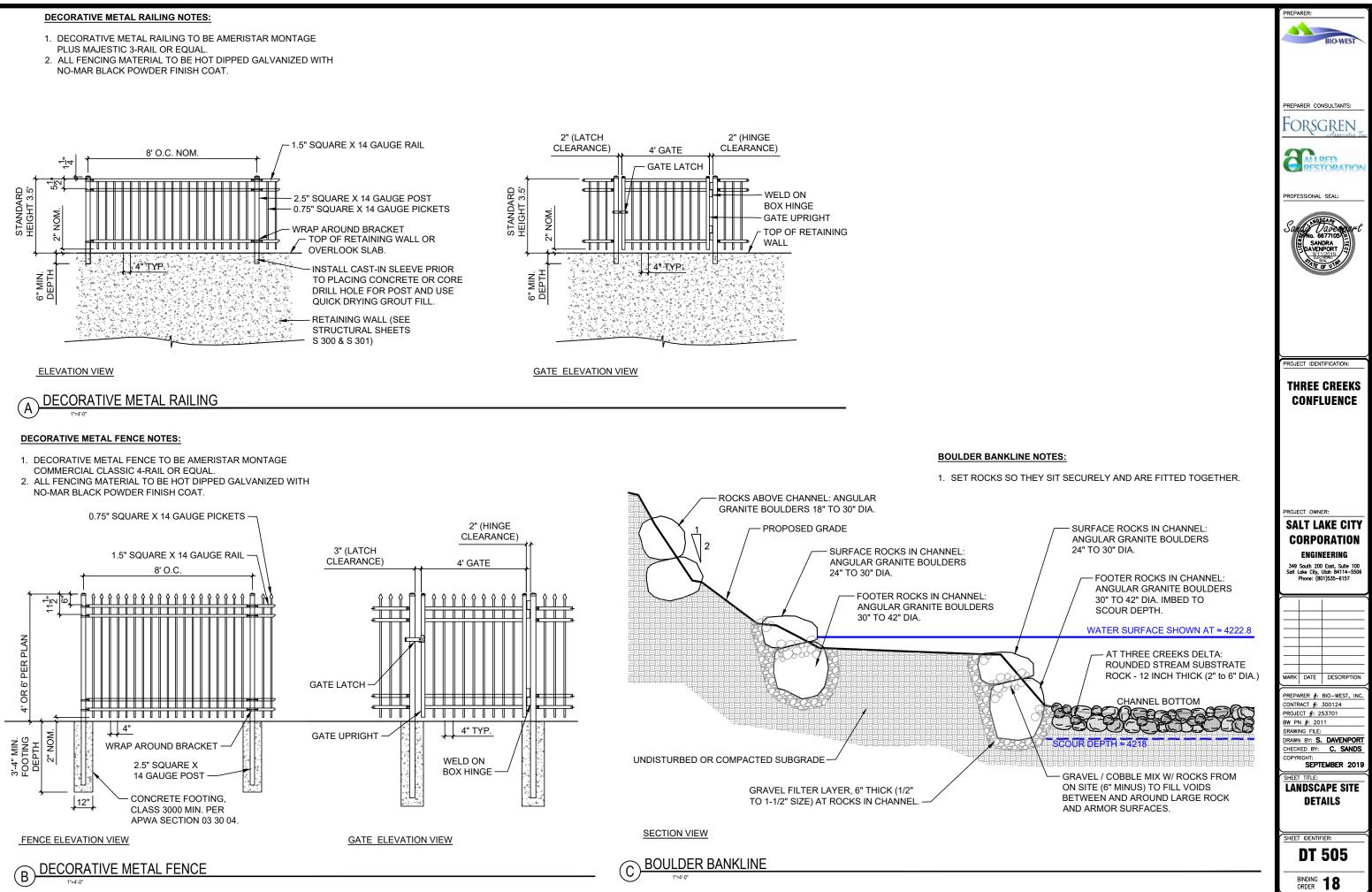
FINISH GRADE

BIKE RACK PLATE, ATTACHED WITH BOLT. NUTS AND WASHERS. USE



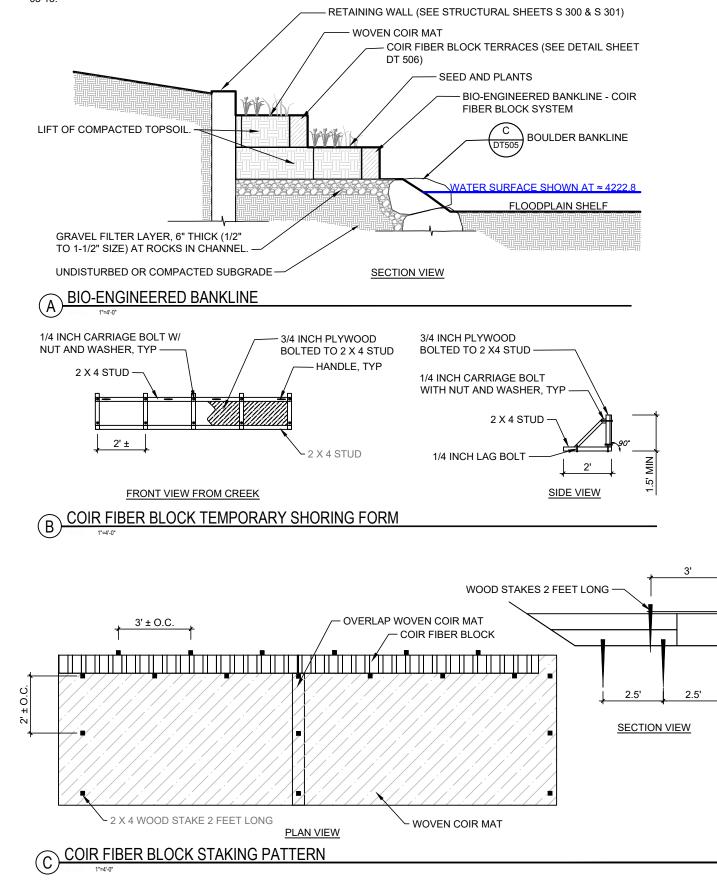
- PLUS MAJESTIC 3-RAIL OR EQUAL.
- NO-MAR BLACK POWDER FINISH COAT.



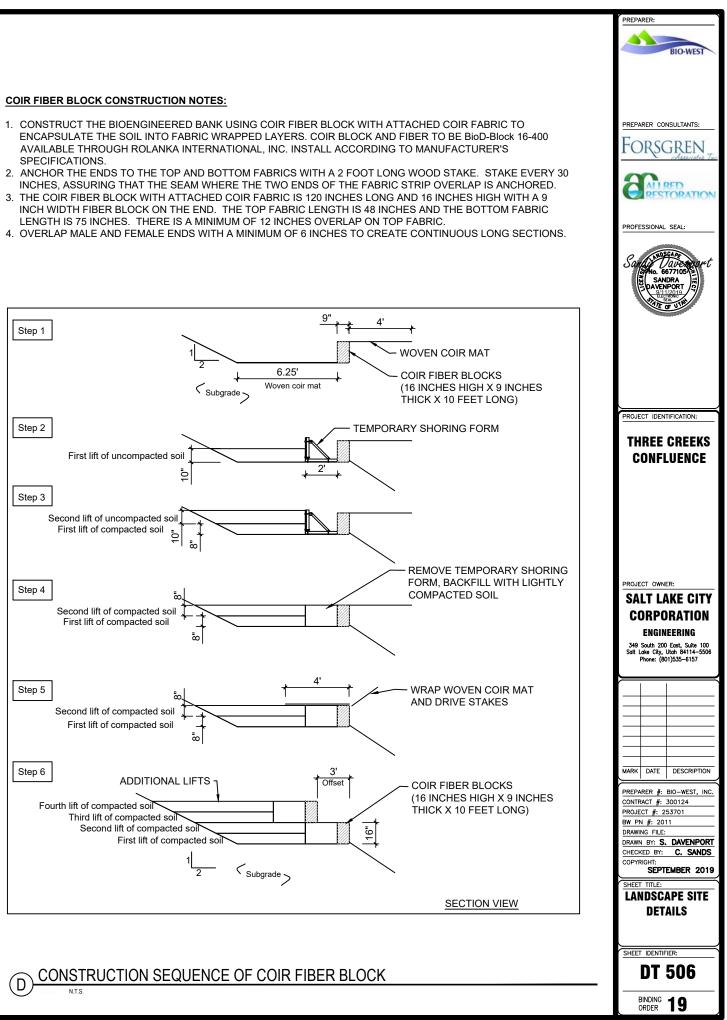


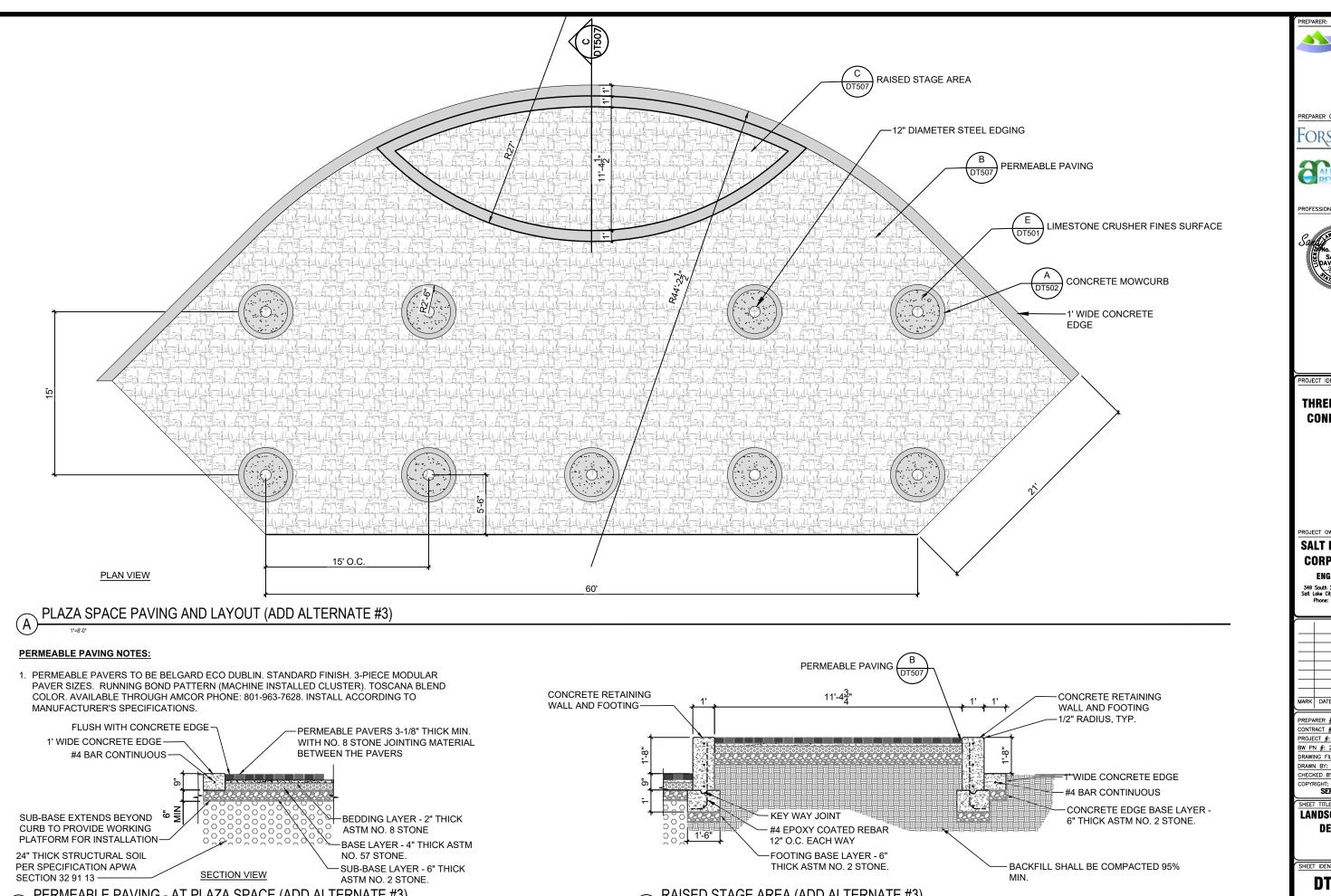


- 1. COIR FIBER BLOCK SHALL BE BioD-BLOCK 16-400, AVAILABLE THROUGH ROLANKA.COM
- 2. MATERIAL OBTAINED FROM EXCAVATION MAY BE USED AS FILL FOR COIR FIBER BLOCK TERRACE LIFT OF COMPACTED TOPSOIL. PROVIDED ORGANIC MATERIAL, RUBBISH, DEBRIS, AND OTHER **OBJECTIONABLE MATERIALS ARE REMOVED PER APWA SECTION 31** 05 13.



- SPECIFICATIONS.

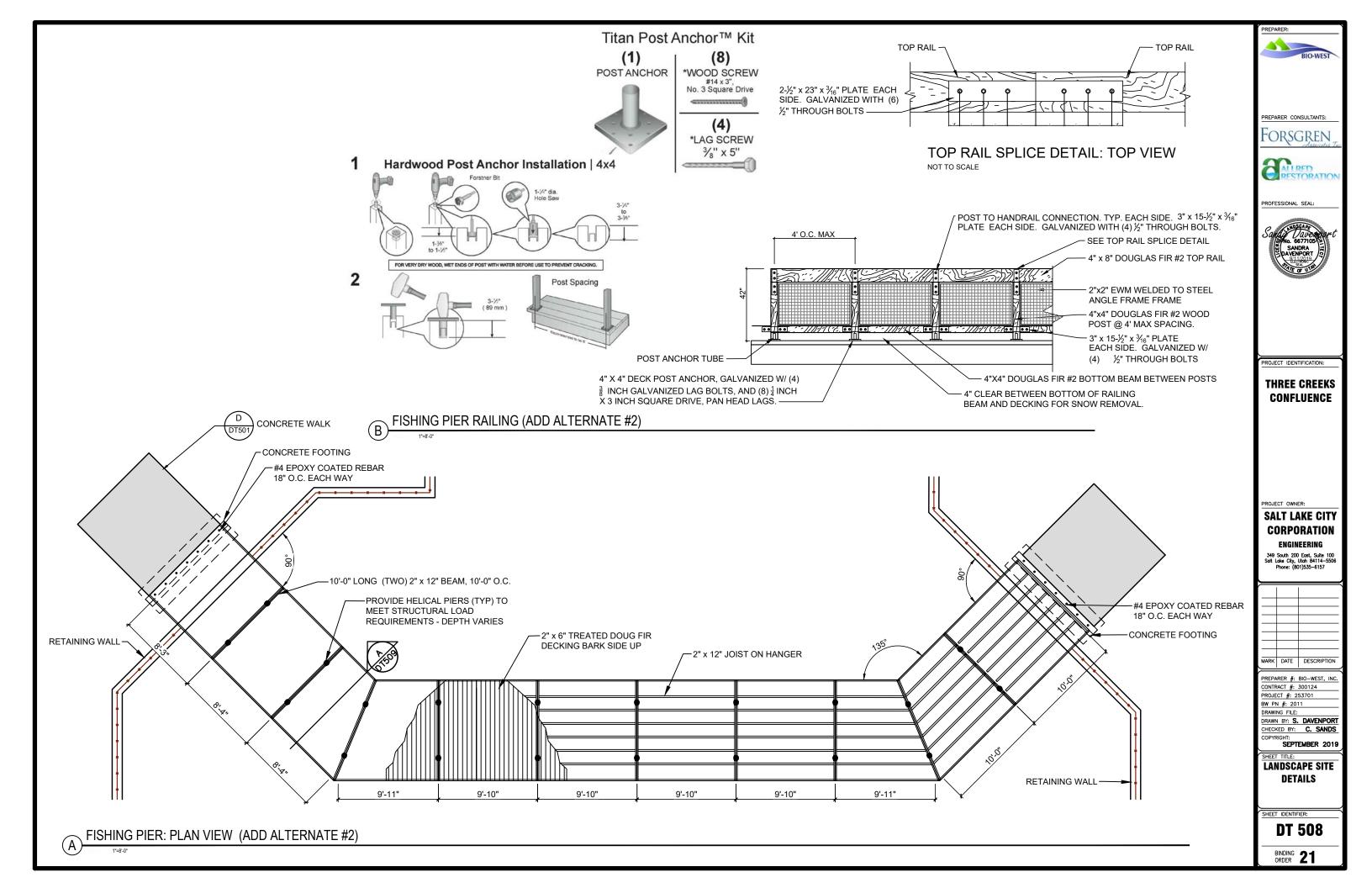


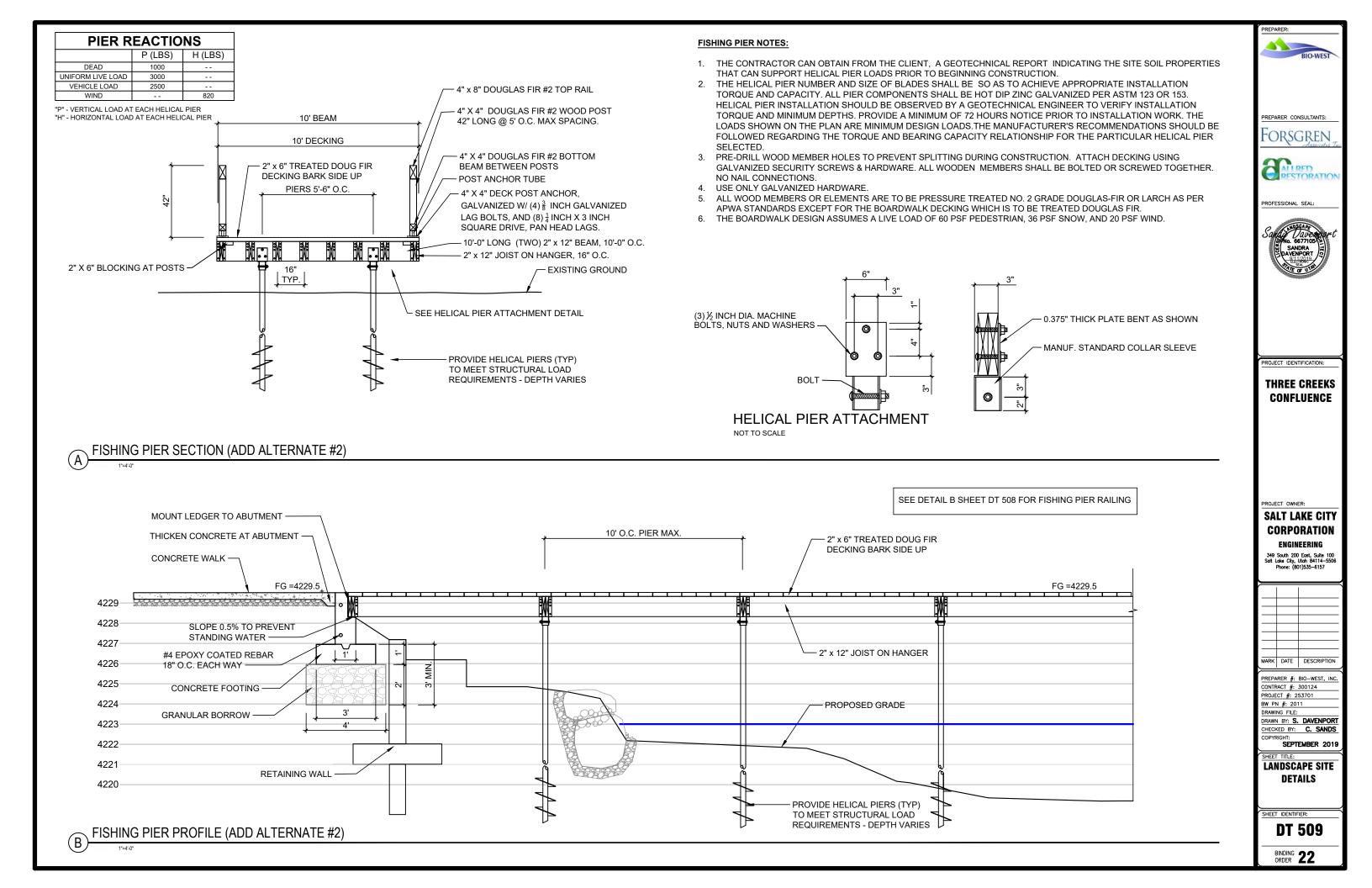






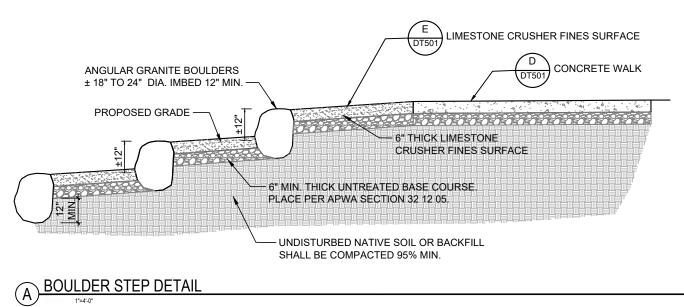
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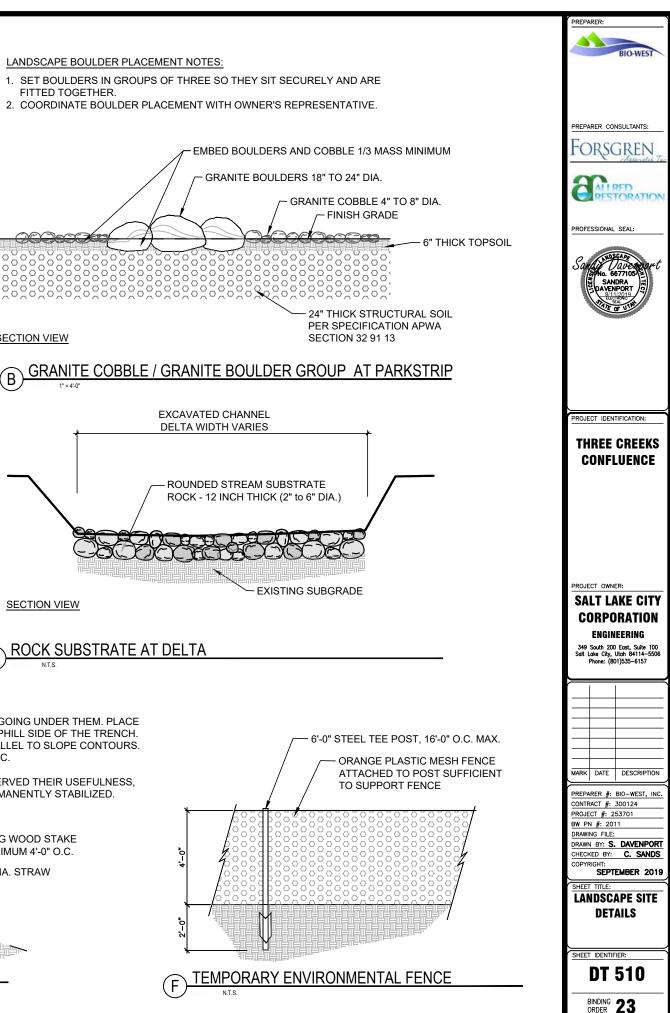


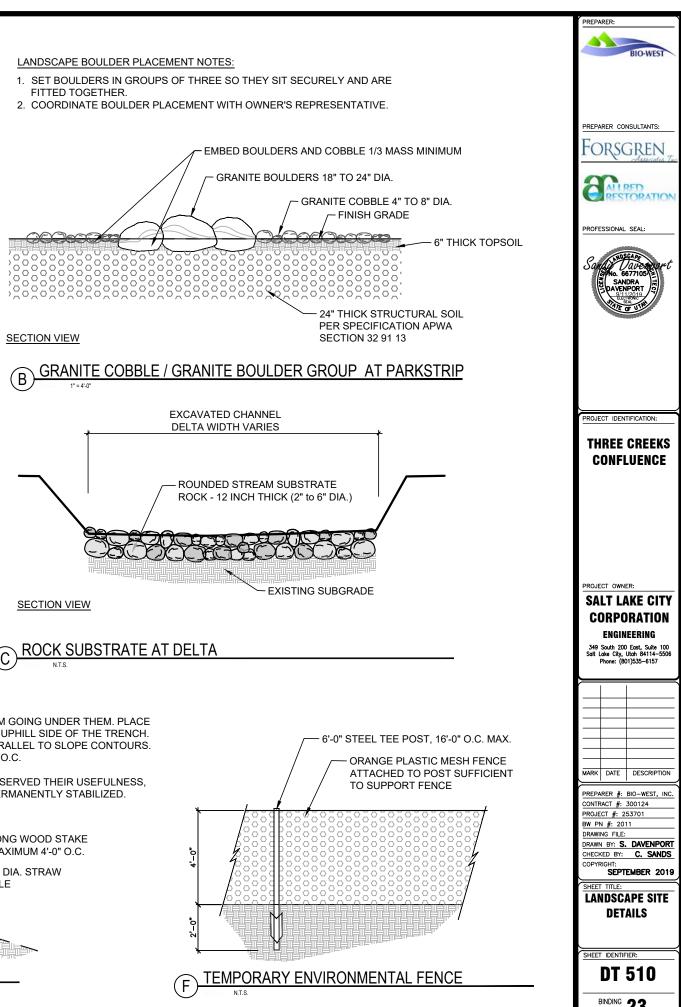


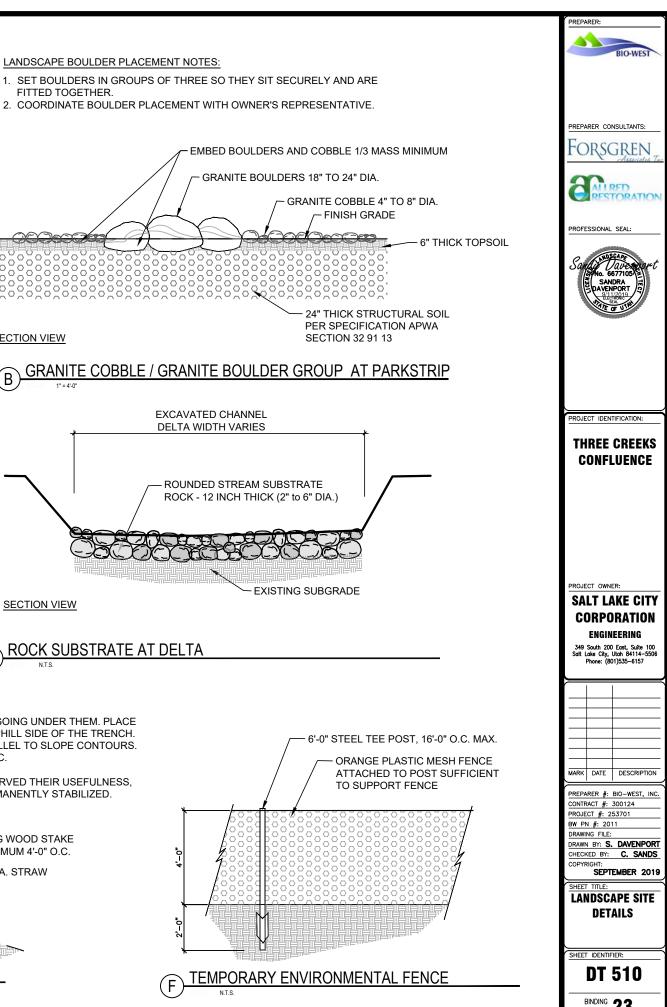
BOULDER STEP NOTES:

1. SET ROCKS SO THEY SIT SECURELY AND ARE FITTED TOGETHER.



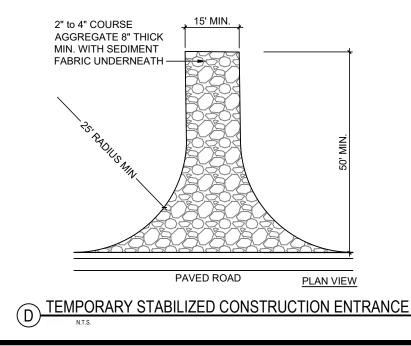






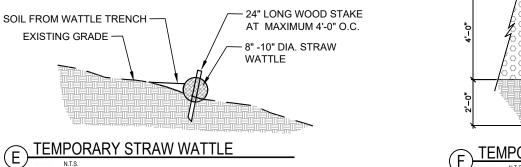
TEMPORARY CONSTRUCTION ENTRANCE / WASH AREA NOTES:

- 1. MOW EXISTING VEGETATION AS NECESSARY BEFORE INSTALLING DRAINAGE FABRIC AND/OR GRAVEL
- 2. COMPACT SUBGRADE
- 3. INSPECT DAILY FOR LOSS OF COBBLE OR SEDIMENT BUILDUP.
- 4. PREVENT CONSTRUCTION SITE DIRT, MUD, AND ROCKS FROM BEING TRACKED ONTO ADJACENT ROADS
- 5. REPAIR ENTRANCE AND REPLACE COBBLE AS REQUIRED TO MAINTAIN CONTROL IN GOOD WORKING CONDITION.
- 6. EXPAND STABILIZED AREA AS REQUIRED TO ACCOMMODATE TRAFFIC AND TO PREVENT EROSION AT DRIVEWAY.



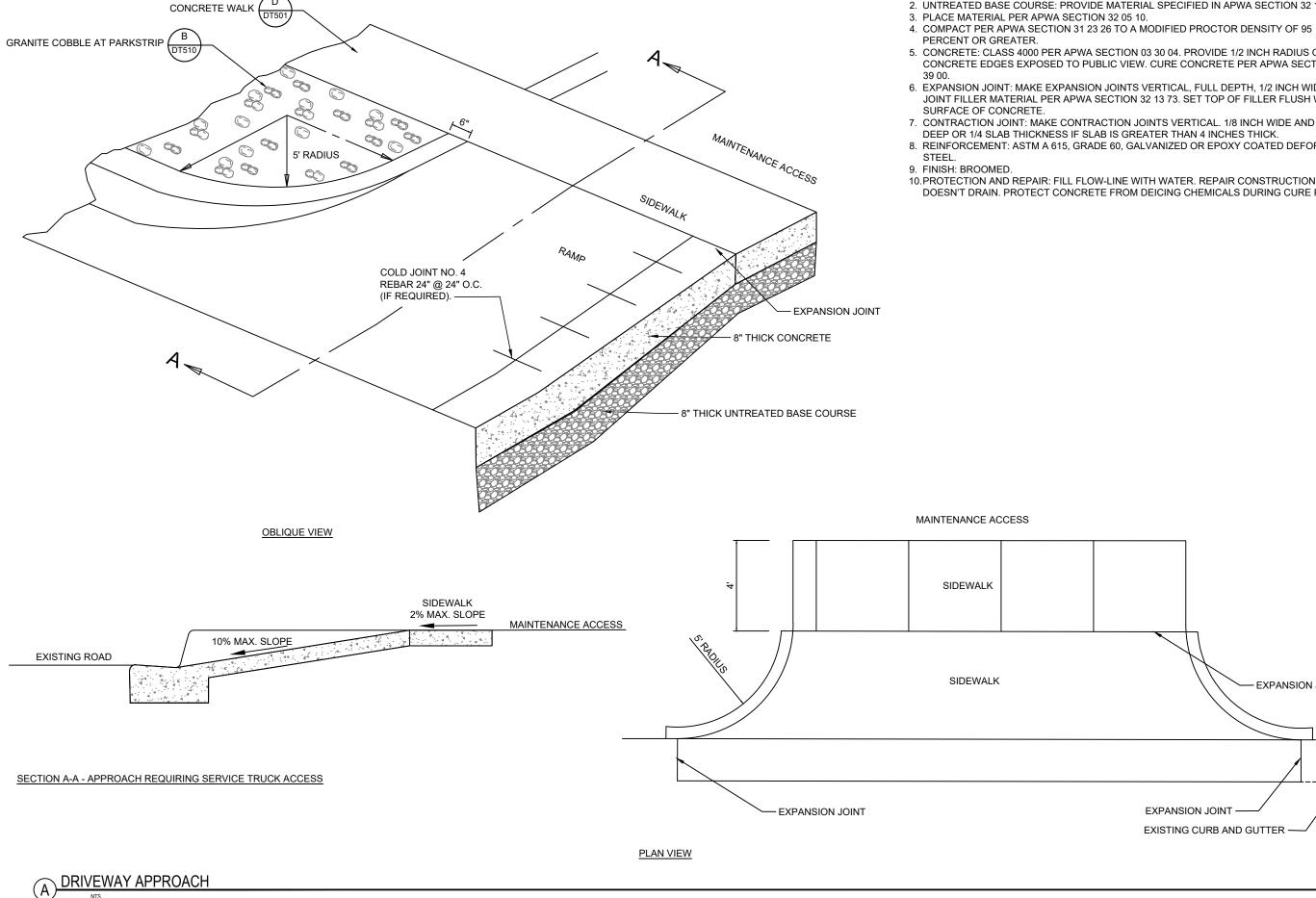
TEMPORARY STRAW WATTLE NOTES:

- 1. TRENCH IN STRAW WATTLES TO PREVENT FLOWS FROM GOING UNDER THEM. PLACE SOIL FROM EXCAVATING THE WATTLE TRENCH ON THE UPHILL SIDE OF THE TRENCH.
- 2. INSTALL WATTLES PERPENDICULAR TO FLOWS AND PARALLEL TO SLOPE CONTOURS.
- 3. STAKE THE WATTLES AT EACH END AND MAXIMUM 4'-0" O.C.
- 4. USE CERTIFIED WEED FREE / SEED FREE STRAW.
- 5. REMOVE STRAW WATTLE BARRIERS WHEN THEY HAVE SERVED THEIR USEFULNESS, BUT NOT BEFORE THE UP-SLOPE AREAS HAVE BEEN PERMANENTLY STABILIZED.



DRIVEWAY APPROACH NOTES:

- 39 00.
- SURFACE OF CONCRETE.



1. DRIVEWAY APPROACH TO BE CONSTRUCTED PER APWA STANDARD PLAN NO. 225. 2. UNTREATED BASE COURSE: PROVIDE MATERIAL SPECIFIED IN APWA SECTION 32 11 23.

5. CONCRETE: CLASS 4000 PER APWA SECTION 03 30 04. PROVIDE 1/2 INCH RADIUS ON CONCRETE EDGES EXPOSED TO PUBLIC VIEW. CURE CONCRETE PER APWA SECTION 03

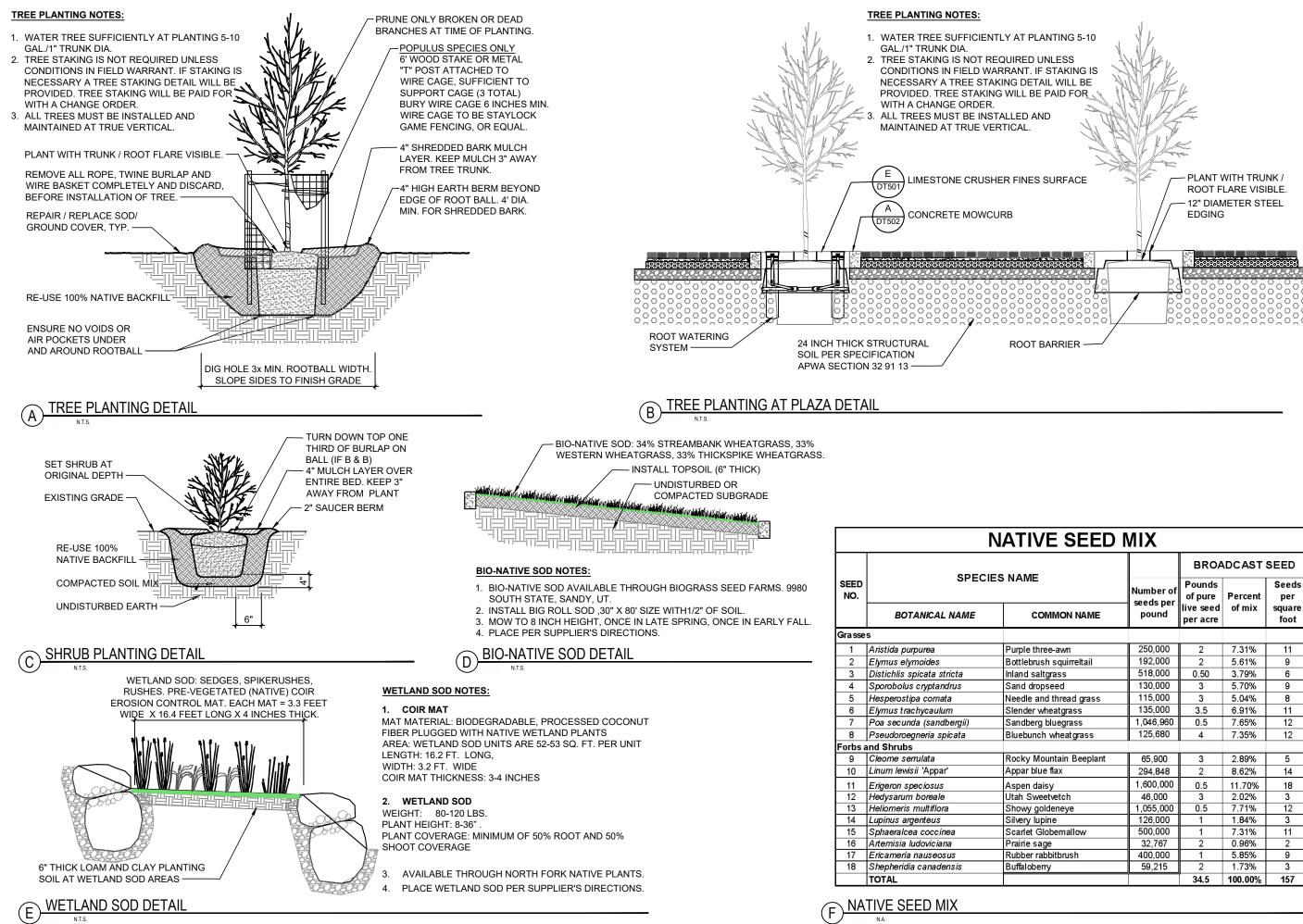
6. EXPANSION JOINT: MAKE EXPANSION JOINTS VERTICAL, FULL DEPTH, 1/2 INCH WIDE. JOINT FILLER MATERIAL PER APWA SECTION 32 13 73. SET TOP OF FILLER FLUSH WITH

7. CONTRACTION JOINT: MAKE CONTRACTION JOINTS VERTICAL. 1/8 INCH WIDE AND 1 INCH DEEP OR 1/4 SLAB THICKNESS IF SLAB IS GREATER THAN 4 INCHES THICK. 8. REINFORCEMENT: ASTM A 615, GRADE 60, GALVANIZED OR EPOXY COATED DEFORMED

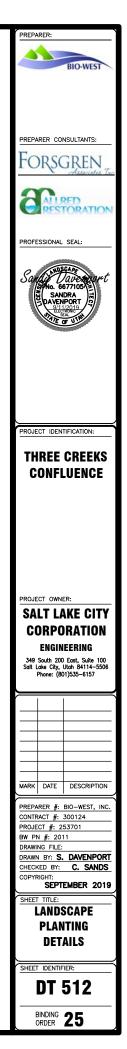
10. PROTECTION AND REPAIR: FILL FLOW-LINE WITH WATER. REPAIR CONSTRUCTION THAT DOESN'T DRAIN. PROTECT CONCRETE FROM DEICING CHEMICALS DURING CURE PERIOD.



ł	— EXPANSIO	DN JOINT
ON JOINT - GCURB AND	GUTTER —	

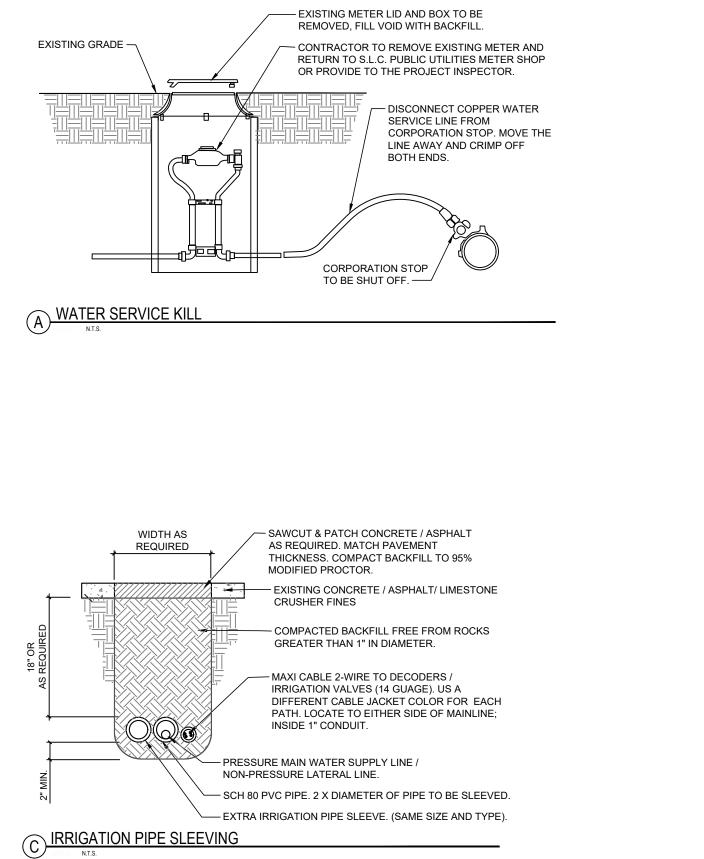


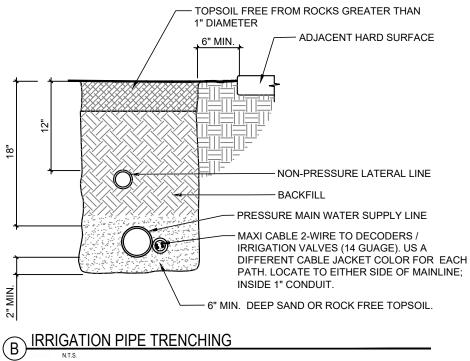
SEED N	ЛIХ			
		BROA	DCAST	SEED
	Numberof seedsper	Pounds of pure	Percent	Seeds per
ON NAME	pound	live seed per acre	of mix	square foot
۸'n	250,000	2	7.31%	11
uirreltail	192,000	2	5.61%	9
s	518,000	0.50	3.79%	6
ł	130,000	3	5.70%	9
read grass	115,000	3	5.04%	8
grass	135,000	3.5	6.91%	11
grass	1,046,960	0.5	7.65%	12
eatgrass	125,680	4	7.35%	12
in Beeplant	65,900	3	2.89%	5
[294,848	2	8.62%	14
	1,600,000	0.5	11.70%	18
ch	46,000	3	2.02%	3
eye	1,055,000	0.5	7.71%	12
	126,000	1	1.84%	3
nallow	500,000	1	7.31%	11
	32,767	2	0.96%	2
rush	400,000	1	5.85%	9
	59,215	2	1.73%	3
		34.5	100.00%	157

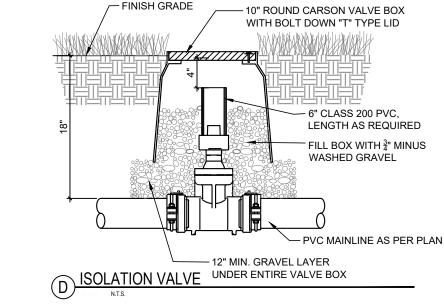


WATER SERVICE KILL NOTES:

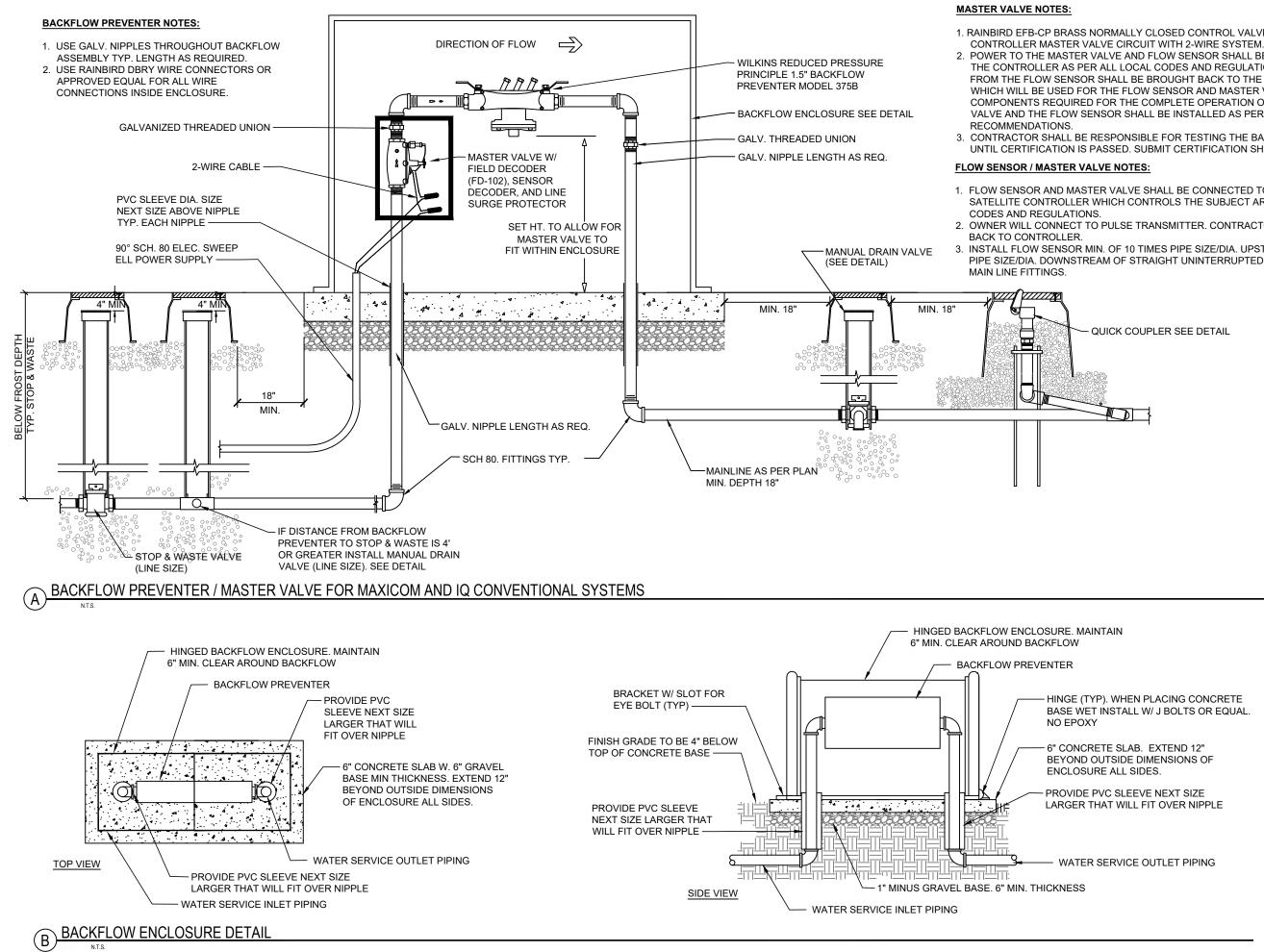
- EXISTING PIPES ARE TO BE DISCONNECTED FROM THE WATER MAIN. 1
- ALL WORK TO MEET REQUIREMENTS AND STANDARD SPECIFICATIONS OF S.L.C. PUBLIC 2. UTILITIES AND /OR OTHER GOVERNING AGENCIES.
- RESTORE CONSTRUCTION SITE TO MATCH SURROUNDING AREA. ANY DAMAGE TO ADJACENT 3. FACILITIES SHALL BE REPAIRED BY THE CONTRACTOR TO THE PROPERTY OWNERS SATISFACTION.
- 4. ALL WORK TO BE INSPECTED PRIOR TO BACKFILL BY S.L.C. PUBLIC UTILITIES.







PREPARER:
BIO-WEST
PREPARER CONSULTANTS:
EODCODENI
FORSGREN Associates Tuc
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RESTORATION
PROFESSIONAL SEAL:
Sandy Davenert
SANDRA
9/11/2019 ELECTRONIC SEAL
CF OF O
PROJECT IDENTIFICATION:
THREE CREEKS
CONFLUENCE
DPO IECT OWNER-
PROJECT OWNER:
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SALT LAKE CITY CORPORATION ENGINEERING 349 South 200 East, Suite 100 Soft Lake City, Uth 84114-5506
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1. RAINBIRD EFB-CP BRASS NORMALLY CLOSED CONTROL VALVE CONNECTED TO 2. POWER TO THE MASTER VALVE AND FLOW SENSOR SHALL BE BROUGHT FROM THE CONTROLLER AS PER ALL LOCAL CODES AND REGULATIONS. 2-WIRE CABLE FROM THE FLOW SENSOR SHALL BE BROUGHT BACK TO THE CONTROLLER, WHICH WILL BE USED FOR THE FLOW SENSOR AND MASTER VALVE. ALL COMPONENTS REQUIRED FOR THE COMPLETE OPERATION OF THE MASTER VALVE AND THE FLOW SENSOR SHALL BE INSTALLED AS PER MANUFACTURER'S

3. CONTRACTOR SHALL BE RESPONSIBLE FOR TESTING THE BACKFLOW ASSEMBLY UNTIL CERTIFICATION IS PASSED. SUBMIT CERTIFICATION SHEETS TO OWNER.

1. FLOW SENSOR AND MASTER VALVE SHALL BE CONNECTED TO THE CLOSEST SATELLITE CONTROLLER WHICH CONTROLS THE SUBJECT AREA PER ALL LOCAL

2. OWNER WILL CONNECT TO PULSE TRANSMITTER. CONTRACTOR TO BRING WIRE

3. INSTALL FLOW SENSOR MIN. OF 10 TIMES PIPE SIZE/DIA. UPSTREAM AND 5 TIMES PIPE SIZE/DIA. DOWNSTREAM OF STRAIGHT UNINTERRUPTED FLOW FROM ANY

- QUICK COUPLER SEE DETAIL

HINGE (TYP). WHEN PLACING CONCRETE BASE WET INSTALL W/ J BOLTS OR EQUAL.

BEYOND OUTSIDE DIMENSIONS OF

LARGER THAT WILL FIT OVER NIPPLE

- WATER SERVICE OUTLET PIPING

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IRRIGATION CONTROLER NOTES:

CONTRACTOR SHALL SUPPLY THE FOLLOWING ITEMS WHICH WILL BE INSTALLED BY THE CONTRACTOR, ALL OTHER ITEMS FOR THE COMPLETE AND OPERATIONAL IRRIGATION SYSTEM SHALL BE SUPPLIED AND INSTALLED BY THE CONTRACTOR:

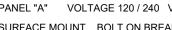
- 1. RAINBIRD IQ ESP-LXD SERIES 2-WIRE DECODER IRRIGATION CONTROLLER.
- 2. RAIN BIRD IQ ANTENNA PART NO. 4640 EXTERNAL ANTENNA.
- 3. RAIN BIRD IQ CELL CARTRIDGE PART NO. IQ4613B-IQ-NCC-GP WITH SERVICE (WITH RAINBIRD SIM CARD).
- 4. PT322 PULSE TRANSMITTER AS REQUIRED IF 1" FLOW SENSOR IS USED. 5. AG2401C3 SURGE ARRESTOR.
- 6. IQ EXPANSION STATION MODULES AS NEEDED FOR CONTROLLER
- 7. BLANK BACK PAN FROM ENCLOSURE.
- 8. 5 POSITION BUSS BAR (FOR GROUNDING).

IRRIGATION PANEL NOTES:

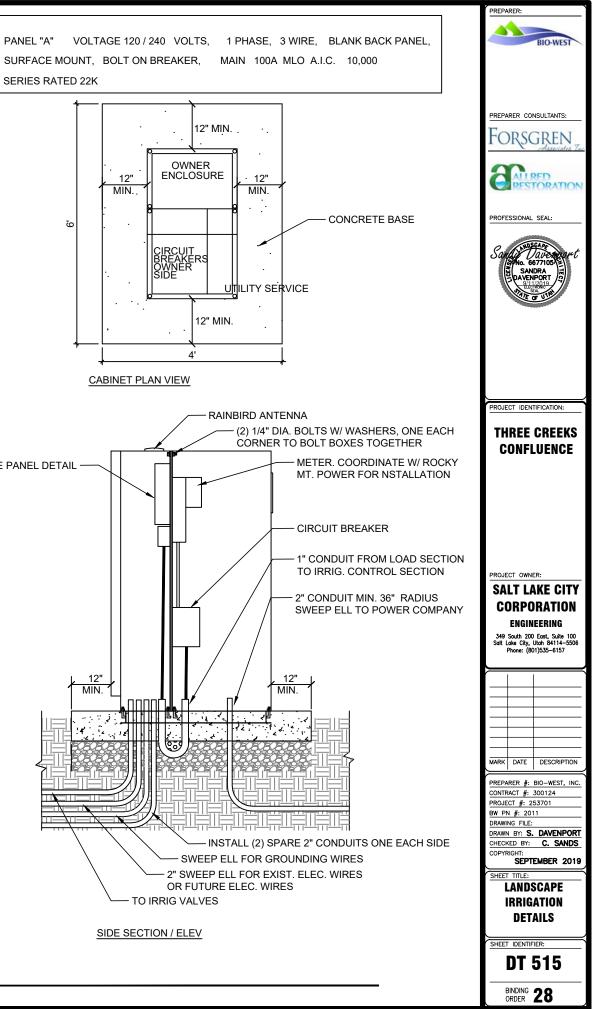
1. FURNISH AND INSTALL (1) 2 POLE, 20 AMP. ELECTRICALLY HELD CONTACTOR.

GENERAL NOTES:

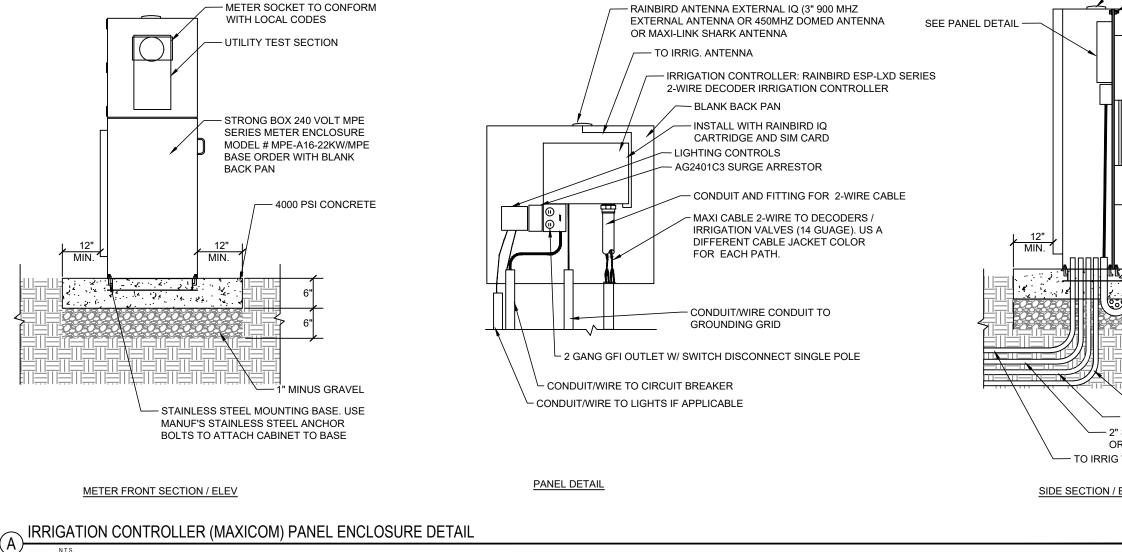
- 1. NEW STRONG BOX PANEL ENCLOSURE MODEL # MPE-A16-22KW / MPE AND NEW PANEL ON ONE SIDE WITH NEW IRRIGATION CONTROLLER, GFI OUTLET, SURGE. ARRESTER. AND DOMED ANTENNA, TO BE MOUNTED ON TOP OF ENCLOSURE .
- 2. CONTRACTOR TO COORDINATE INSTALLATION OF ELEC. METER W/ ROCKY MTN. POWER.
- 3. CONTRACTOR SHALL INSTALL LIGHTING CONTROL AND WIRES TO NEW ENCLOSURE IF APPI ICABLE
- 4. CONTRACTOR SHALL SUPPLY AND INSTALL GROUNDING GRID FOR IRRIGATION CONTROLLER AS PER DETAIL AND MANUFACTURES SPECIFICATIONS.
- CONTRACTOR SHALL TIE GROUNDING FROM UTILITY TO GROUNDING FROM IRRIGATION UTILITY TO BE NEC COMPLIANT.
- 6. CONTRACTOR SHALL INSTALL LONG SWEEP ELLS FOR ALL WIRES, SIZE AS SHOWN.
- 7 CONTRACTOR SHALL HOOK UP ALL 120V & 240V WIRING.
- 8. ORIENTATION OF ENCLOSURE TO BE APPROVED BY OWNER PRIOR TO PLACEMENT.
- 9. CONTRACTOR MUST COORDINATE WITH OWNER TO TEST AND VERIFY PROPER INSTALLATION TO RAINBIRD SPECIFICATIONS FOR GROUNDING REQUIREMENTS OF 10 OHM OR LESS BEFORE FINAL WALK THROUGH BY AN AUTHORIZED SERVICE PROVIDER.



SERIES RATED 22K

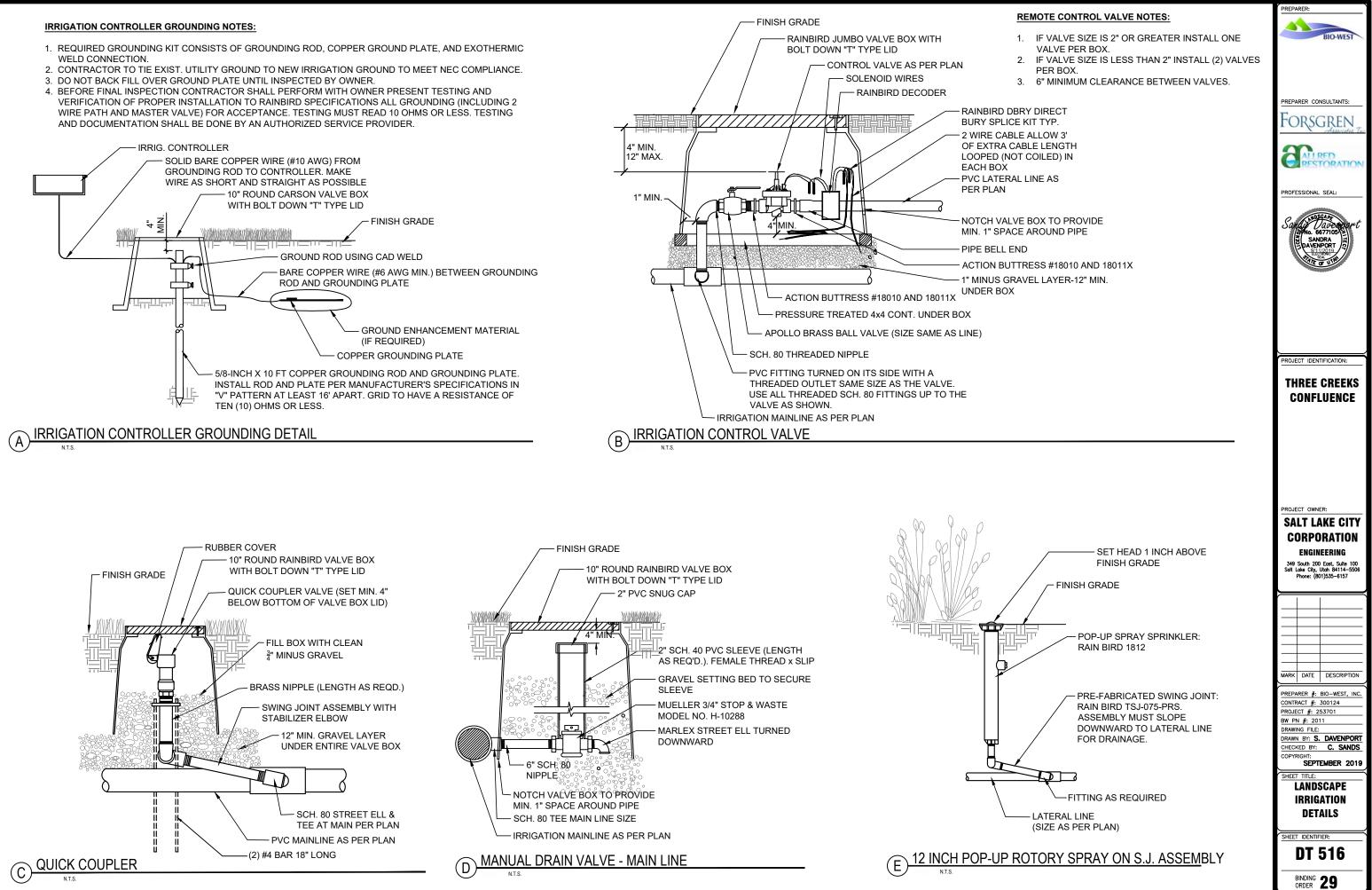




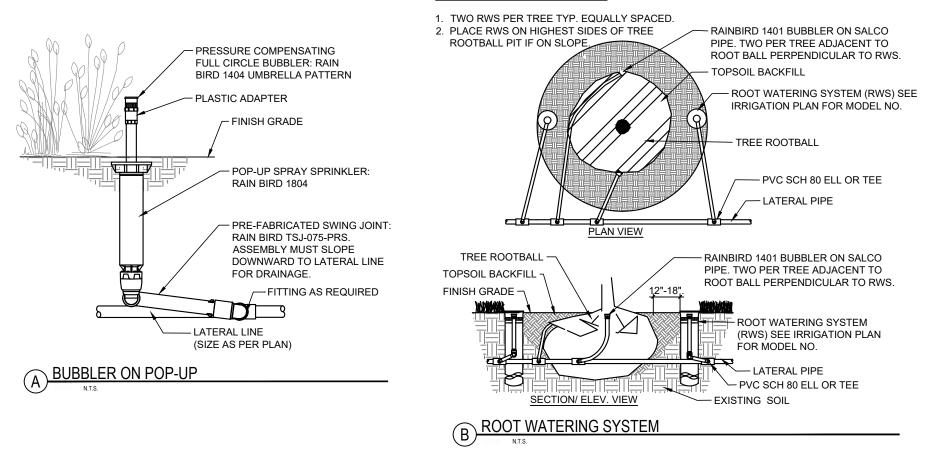


- WELD CONNECTION.

- VERIFICATION OF PROPER INSTALLATION TO RAINBIRD SPECIFICATIONS ALL GROUNDING (INCLUDING 2 WIRE PATH AND MASTER VALVE) FOR ACCEPTANCE. TESTING MUST READ 10 OHMS OR LESS. TESTING AND DOCUMENTATION SHALL BE DONE BY AN AUTHORIZED SERVICE PROVIDER.



ROOT WATERING SYSTEM NOTES:



PREPA	RER:	
		BIO-WEST
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SAI CO 349 5 Sat L P PROIONTR BW PN DRAWN DRAWN	LT L/ DRPO ENGIN South 200 https://www.com/ https://www.com/ https://www.com/ https://www.com/ https://www.com/ com/ second/ s	AKE CITY RATION ERATION EERING Dest, Suite 100 Unb Att14-5506 1)535-6157 BIO-WEST, INC. 300124 53701 11 DAVENPORT C. SANDS
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SAI CO 349 9 5 of L Soft L PROPER PROPER DRAWN CHECK COPYR	LT L/ DRPO ENGIN South 200 ENGIN South 200 ENGIN CONTENTION SOUTH 200 CONTENTION SEPT TITLE: ANDS RRIG DET.	AKE CITY RATION EERING EERING East, Suite 100 Unit B4114-5506 1)535-6157 DESCRIPTION BIO-WEST, INC. 300124 53701 II DAVENPORT C. SANDS EMBER 2019 SCAPE ATION AILS
SAI CO 349 9 5 of L Soft L PROPER PROPER DRAWN CHECK COPYR	LT L/ DRPO ENGIN South 200 ENGIN South 200 ENGIN CONTENTION SOUTH 200 CONTENTION SEPT TITLE: ANDS RRIG DET.	AKE CITY RATION EERING F.sst, Suite 100 Urb 84114-5506 1)535-6157 DESCRIPTION BIO-WEST, INC. 300124 BIO-WEST, INC. 300124 BIO-WEST, INC. 300124 BIO-WEST, INC. SCAPE ATION AILS IER:
SAIL SAIL Soft L PREPARA P	LT L/ DRPOO ENGIN South 200 Hone: (80 DATE DATE THE 20 ACT #: 20 A	AKE CITY RATION EERING F.sst, Suite 100 Urb 84114-5506 1)535-6157 DESCRIPTION BIO-WEST, INC. 300124 BIO-WEST, INC. 300124 BIO-WEST, INC. 300124 BIO-WEST, INC. SCAPE ATION AILS IER:

GENERAL

- ALL DESIGN, CONSTRUCTION, AND INSPECTION SHALL BE IN 1 CONFORMANCE WITH THE 2015 INTERNATIONAL BUILDING CODE (IBC) AND REFERENCED STANDARDS.
- THE CONTRACTOR SHALL VERIFY ALL DIMENSIONS AND CONDITIONS 2. AT THE SITE.
- 3. ALL OMISSIONS OR CONFLICTS BETWEEN THE VARIOUS ELEMENTS OF THE WORKING DRAWINGS AND/OR SPECIFICATIONS SHALL BE BROUGHT TO THE ATTENTION OF THE ENGINEER BEFORE PROCEEDING WITH ANY WORK INVOLVED.
- DRAWINGS INDICATE THE FINISHED PRODUCT. THEY DO NOT INDICATE 4. A METHOD OF CONSTRUCTION. CONTRACTOR SHALL TAKE ALL PRECAUTIONS NECESSARY TO PROTECT THE STRUCTURE DURING CONSTRUCTION. SUCH PRECAUTIONS SHALL INCLUDE, BUT NOT BE LIMITED TO, BRACING, SHORING FOR CONSTRUCTION EQUIPMENT. ETC..
- 5. THE CONTRACTOR SHALL BE RESPONSIBLE FOR COMPENSATING THE OWNER FOR ANY CHANGES MADE AS A RESULT OF A DEVIATION FROM THE CONTRACT DOCUMENTS, DEVIATION FROM THE SPECIFICATIONS, FAULTY MATERIALS, OR FAULTY WORKMANSHIP.
- OPTIONS ARE FOR THE CONTRACTOR'S CONVENIENCE. THE 6. CONTRACTOR SHALL BE RESPONSIBLE FOR COORDINATING ALL REQUIRED DESIGN CHANGES. COST ASSOCIATED WITH ANY DESIGN WORK INITIATED BY THE OPTION SHALL BE BORN BY THE CONTRACTOR.
- 7. CONTRACTOR SHALL BE RESPONSIBLE FOR SAFETY AND PROTECTION WITHIN AND ADJACENT TO THE JOB SITE.
- 8. TEMPORARY SHORING AND BRACING SHALL BE PROVIDED WHEREVER NECESSARY TO TAKE CARE OF ALL LOADS TO WHICH THE STRUCTURE MAY BE SUBJECTED INCLUDING WIND. SUCH BRACING SHALL BE LEFT IN PLACE AS LONG AS MAY BE REQUIRED FOR SAFETY OR UNTIL ALL THE STRUCTURAL ELEMENTS ARE COMPLETE.
- DURING AND AFTER CONSTRUCTION THE CONTRACTOR AND/OR 9. OWNER SHALL KEEP LOADS ON THE STRUCTURE WITHIN THE LIMITS OF THE DESIGN LOADS.
- THE GENERAL CONTRACTOR SHALL HAVE SHOP DRAWINGS REVIEWED 10. BY THE ENGINEER PRIOR TO THE FABRICATION OR ERECTION FOR THE FOLLOWING ITEMS: HELICAL PIERS, REINFORCING STEEL PRE-ENGINEERED, AND PRE-MANUFACTURED STRUCTURAL STEEL BRIDGE.
- 11. ALL DETAILS, SECTIONS, AND NOTES ARE INTENDED TO BE TYPICAL AND SHALL APPLY TO SIMILAR SITUATIONS UNLESS NOTED OR SHOWN OTHERWISE.
- REFER TO THE SPECIFICATIONS FOR ADDITIONAL INFORMATION NOT 12. COVERED ON THE DRAWINGS.
- OBSERVATION VISITS TO THE JOB SITE BY THE OWNER, ENGINEER OR 13. FIELD REPRESENTATIVES OF THE ENGINEER SHALL NEITHER BE CONSTRUED AS INSPECTION NOR APPROVAL OF CONSTRUCTION.
- SIZES, LOCATIONS, AND ANCHORAGE'S OF EQUIPMENT SHALL BE 14. VERIFIED IN THE FIELD WITH EQUIPMENT MANUFACTURERS (SUPPLIERS) PRIOR TO PLACING CONCRETE OR FABRICATING STEEL.

STRUCTURAL DESIGN LOADS

THE FOLLOWING STRUCTURAL DESIGN LOADS APPLY U.N.O.:

AASHTO DESIGN LOADS
LIVE LOAD
VEHICLE LOAD L = 10,000 LBS

SNOW LOAD:

GROUND SNOW LOAD	Pg = 43 PSF
SNOW IMPORTANCE FACTOR	ls = 1.00
SNOW EXPOSURE FACTOR	Ce = 1.00
SNOW THERMAL FACTOR	Ct = 1.2
FLAT SNOW LOAD	Pf = 36 PSF

WIND:

BASIC WIND SPEED	V = 115 MPH
WIND IMPORTANCE FACTOR	. lw = 1.00
WIND EXPOSURE	С

SEISMIC:

OCCUPANCY CATEGORY II SEISMIC IMPORTANCE FACTOR. IE = 1.00 SPECTRAL RESPONSE ACCELERATION. . SS = 1.574 SPECTRAL RESPONSE ACCELERATION. . S1 = .553 SEISMIC SOIL SITE CLASS F SPECTRAL RESPONSE COEFFICIENT ... SDS = .944 SPECTRAL RESPONSE COEFFICIENT ... SD1 = .844 SEISMIC DESIGN CATEGORY D

FOOTINGS

- FOOTING ELEVATIONS SHOWN ON PLAN ARE TOP OF 1. FOOTINGS AND ARE MINIMUM DEPTH. DIFFERENT OR UNUSUAL CONDITIONS SHALL BE REPORTED TO THE ENGINEER.
- 2. FOOTINGS SHALL BEAR AT A MINIMUM DEPTH OF 30" BELOW FINISHED GRADE.
- NO FOOTINGS SHALL BE PLACED IN WATER OR ON FROZEN 3. GROUND.
- ANY SOIL CONDITION ENCOUNTERED DURING EXCAVATION 4. THAT IS CONTRARY TO THE CONDITIONS USED FOR DESIGN OF FOOTINGS, OR ON THE DRAWINGS SHALL BE BROUGHT TO THE ATTENTION OF THE ENGINEER BEFORE PROCEEDING.
- ALL FOOTING EXCAVATIONS SHALL BE EXAMINED BY THE 5. ENGINEER FOR VERIFICATION OF ADEQUATE BEARING CONDITIONS BEFORE PLACING CONCRETE.
- COMPACT IMPORTED STRUCTURAL FILL AS UNDER 6. FOOTINGS AS REQUIRED TO AT LEAST 90% OF MAXIMUM DRY DENSITY AS DETERMINED BY (MODIFIED PROCTOR) ASTM D1557.
- 7. FOUNDATION SUBGRADE SHALL BE PREPARED IN ACCORDANCE WITH THE RECOMMENDATIONS GEOTECHNICAL REPORT PREPARED BY TERRACON DATED JANUARY 25, 2018.
- 8. ALLOWABLE BEARING CAPACITY = 1500 PSF

CONCRETE

- 1. ALL CONCRETE SHALL MEET THE REQUIREMENTS OF AND CONFORM TO ACI-604 (306) FOR COLD WEATHER FOR SEVEN DAYS AFTER PLACING.
- 2. STRENGTH 4500 PSI SLUMP: 4 INCH + 1 INCH MAX. WATER/CEMENT RATIO: 0.44
- 3. STRUCTURAL CONCRETE EXPOSURE CLASS: F2
- 4. MATERIALS
 - CEMENT: ASTM 150, TYPE I. COARSE AND FINE AGGREGATE: ASTM C33. WATER SHALL BE CLEAN AND POTABLE.
- 5. ADMIXTURES

WATER REDUCING ADMIXTURE: ASTM C494, ADMIXTURES SHALL BE USED IN EXACT ACCORDANCE WITH MANUFACTURER'S INSTRUCTIONS.

SYNERGIZED PERFORMANCE SYSTEMS: CONCRETE USING ADMIXTURES TO PRODUCE FLOWABLE CONCRETE MAY BE USED SUBJECT TO ENGINEER'S APPROVAL.

- ENGINEER OF RECORD.
- COMMENCING WORK.
- STANDARDS AND PRACTICES.
- SHALL BE CONTINUOUS THROUGH JOINTS AND EACH CONSTRUCTION JOINT SHALL BE KEYED.
- CONCRETE PENETRATIONS.

ACI-301. SPECIFICATION FOR STRUCTURAL CONCRETE FOR BUILDINGS. PROPORTIONING OF INGREDIENTS FOR EACH CONCRETE MIX SHALL BE BY METHOD 2 OR THE ALTERNATE PROCEDURE GIVEN IN ACI-301. PLACE CONCRETE PER ACI-304 PLACEMENT AND ACI-605 (305) FOR HOT WEATHER PLACEMENT, USE INTERIOR MECHANICAL VIBRATORS WITH 7,000 RPM MINIMUM FREQUENCY. DO NOT OVER-VIBRATE. CONCRETE SHALL BE PLACED MONOLITHICALLY BETWEEN CONSTRUCTION AND CONTROL JOINTS. PROTECT ALL CONCRETE FROM PREMATURE DRYING, EXCESSIVE HOT OR COLD TEMPERATURE

TWENTY-EIGHT DAY COMPRESSIVE STRENGTH SHALL BE:

6. AIR ENTRAIMENT: ASTM C260 AND ASTM C494, ENTRAIN 6% PLUS/MINUS 1 1/2% BY VOLUME IN ALL EXPOSED CONCRETE.

7. NO OTHER ADMIXTURE PERMITTED UNLESS APPROVED BY THE

8. A STATEMENT OF MIX DESIGN FOR ALL CONCRETE SHALL BE SUBMITTED TO AND REVIEWED BY THE ENGINEER PRIOR TO

9. ALL CONCRETE WORK SHALL BE PLACED. CURED. STRIPPED. AND PROTECTED AS DIRECTED BY THE SPECIFICATIONS AND ACI

10. BEFORE CONCRETE IS POURED CHECK WITH ALL TRADES TO ENSURE PROPER PLACEMENT OF ALL OPENINGS, SLEEVES, CURBS, CONDUITS, BOLTS, INSERTS, ETC. RELATIVE TO WORK.

11. REFER TO DRAWINGS FOR TYPICAL CONSTRUCTION JOINT DETAILS. UNLESS NOTED IN DRAWINGS, ALL REINFORCEMENT

12. CONTRACTOR SHALL SUBMIT A PLACEMENT PLAN FOR REVIEW INCLUDING ALL ITEMS EMBEDDED IN CONCRETE AND ALL



REINFORCING STEEL

- 1. ALL REINFORCEMENT SHALL BE DETAILED AND PLACED IN ACCORDANCE WITH BP-66(04): ACI DETAILING MANUAL 2011, ACI 350-11, AND ACI 318-14.
- 2. REINFORCING STEEL SHALL BE ASTM A615 GRADE 60. WELDED WIRE FABRIC SHALL CONFORM TO ASTM A82 AND ASTM A185.
- 3. ALL REINFORCEMENT SHALL BE SECURELY TIED AND HELD IN PLACE.
- 4. REINFORCING BARS THAT ARE TO BE WELDED, INCLUDING DEFORMED BAR ANCHORS (D.B.A.) SHALL COMPLY WITH ASTM A706 OR ANOTHER APPROVED WELDABLE GRADE AND SHALL BE WELDED IN ACCORDANCE WITH THE A.W.S. RECOMMENDATIONS.
- 5. ALL CONTINUOUS REINFORCEMENT SHALL TERMINATE WITH A 90 DEG. TURN OR A SEPARATE CORNER BAR. ALL SPLICES IN CONCRETE SHALL LAP THE LISTED LAP LENGTH.
- THE FOLLOWING CONCRETE COVER SHALL BE PROVIDED FOR REINFORCEMENT: A. CONCRETE CAST AGAINST AND PERMANENTLY EXPOSED TO EARTH: 3" B. ALL OTHER CONCRETE: 2"
- 7. PRIOR TO FABRICATION AND PLACEMENT, SHOP DRAWINGS FOR ALL REINFORCING STEEL SHALL BE REVIEWED BY THE ENGINEER.
- 8. REFER TO WALL CORNER AND WALL INTERSECTION REINFORCING DETAIL. IN GENERAL, THE WALL CORNER REINFORCING SIZES AND SPACING SHALL BE CALLED OUT ON THE PLANS AND REFERENCED TO THESE DETAILS AND THE TYPICAL HORIZONTAL WALL REINFORCING SHALL LAP WITH THE HORIZONTAL REINFORCING.
- 9. ALL BENDS, UNLESS OTHERWISE SHOWN, SHALL BE A 90 DEGREE STANDARD HOOK. REFER TO STANDARD CONCRETE HOOK DETAILS.
- 10. UNLESS INDICATED OTHERWISE, CONTRACTOR MAY SPLICE CONTINUOUS SLAB OR LONGITUDINAL BEAM BARS AT LOCATION OF HIS CHOOSING, EXCEPT THAT TOP BAR SPLICES SHALL BE LOCATED AT MIDSPAN AND BOTTOM BAR SPLICES SHALL BE LOCATED AT SUPPORTS. STAGGER SPLICES IN HORIZONTAL WALL BARS SO THAT NO TWO ADJACENT BARS IN THE SAME OR OPPOSITE CURTAIN ARE SPLICED AT THE SAME LOCATION. ALL REINFORCEMENT BENDS AND LAPS, UNLESS OTHERWISE NOTED, SHALL SATISFY THE REQUIREMENTS OF THE STD. CONCRETE HOOK SCHEDULE AND THE CONCRETE REINFORCEMENT LAP AND DEVELOPMENT SCHEDULES.

FORM WORK

- 1. FOLLOW RECOMMENDED PRACTICE FOR CONCRETE FORMWORK (ACI-347).
- 2. ALL SHORING SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR. FORMWORK SUPPORTS AND SHORING SHALL BE DESIGNED TO PROVIDE FINISHED CONCRETE SURFACES OF ALL FACES LEVEL, PLUMB, AND TRUE TO THE DIMENSIONS AND ELEVATIONS SHOWN. TOLERANCES AND VARIATIONS SHALL BE AS SPECIFIED.

SHOP DRAWINGS

SUBMIT SHOP DRAWINGS TO THE ARCHITECT/ENGINEER OF RECORD FOR THE FOLLOWING:

- 1. PRE-ENGINEERED, PRE-MANUFACTURER STEEL BRIDGE.
- 2. ANCHOR BOLTS.
- 3. REINFORCING STEEL.

STRUCTURAL STEEL

- 1. ALL STEEL SHALL BE FABRICATED AND ERECTED IN ACCORDANCE WITH AMERICAN INSTITUTE OF STEEL CONSTRUCTION SPECIFICATION FOR THE DESIGN, FABRICATION A ERECTION OF STRUCTURAL STEEL FOR BUILDING, LATEST EDITION.
- 2. OBTAIN APPROVAL OF THE ENGINEER OF RECORD PRIOR TO SITE CUTTING, MAKING ADJUSTMENTS OR PERFORMING FIELD WELDS NOT SCHEDULED OR SHOWN ON PLANS DETAILS.
- 3. ALL ASTM A325 BOLTING MATERIAL SHALL BE PROVIDED WITH CERTIFIED DIRECT TENS INDICATOR WASHERS AND HARDENED WASHERS FOR FIELD BOLTED CONNECTIONS.

ANCHOR BOLTS

1. CONCRETE ANCHOR RODS SHALL MEET THE QUALITY OF ASTM F1554 GRADE 55 KSI, GALVANIZED (ASTM A153, CLASS C) RODS AND SHALL HAVE A STANDARD HEX HEAD OR EQUAL DEFORMITY IN THE EMBEDDED PORTION.

POST-INSTALLTED ANCHORS

- 1. EXCEPT WHERE INDICATED ON THE DRAWINGS, POST-INSTALLED ANCHORS SHALL CONSIST OF THE FOLLOWING ANCHOR TYPES AS PROVIDED BY HILTI, INC. CONTACT HI AT (800) 879-8000 FOR PRODUCT RELATED QUESTIONS.
- 2. ANCHORAGE TO CONCRETE

ADHESIVE ANCHORS FOR CRACKED AND UNCRACKED CONCRETE USE: (A) HILTI HIT-HY 200 SAFE SET SYSTEM WITH HILTI HIT-Z ROD PER ICC ESR-3187.

- 3. REBAR DOWELING INTO CONCRETE
- (A) HILTI HIT-HY 200 SAFE SET SYSTEM WITH HILTI HOLLOW DRILL BIT SYSTEM WITH CONTINUOUSLY DEFORMED REBAR PER ICC ESR-3187.
- 4. INSTALL ANCHORS PER THE MANUFACTURER INSTRUCTIONS, AS INCLUDED IN THE AND PACKAGING.
- 5. THE CONTRACTOR SHALL ARRANGE AN ANCHOR MANUFACTURER'S REPRESENTATIVE PROVIDE ONSITE INSTALLATION TRAINING FOR ALL OF THEIR ANCHORING PRODUCTS SPECIFIED. THE STRUCTURAL ENGINEER OF RECORD MUST RECEIVE DOCUMENTED CONFIRMATION THAT ALL OF THE CONTRACTOR'S PERSONNEL WHO INSTALL ANCHORS ARE TRAINED PRIOR TO THE COMMENCEMENT OF INSTALLING ANCHORS.

	PREPARER:
AND	BIO-WEST 1603 West 1600 North + Logar, Libit 6432 + 415-532-4302
OR	PREPARER CONSULTANTS: FORSGREN Associates Inc.
SION	
R AN	PROFESSIONAL SEAL:
ILTI	
	PROJECT IDENTIFICATION: THREE CREEKS CONFLUENCE OPEN
	SPACE REACTIVATION AND RIPARIAN RESTORATION
CHOR	PROJECT OWNER:
то	CORPORATION ENGINEERING 349 South 200 East, Suite 100
6	Salt Lake City, Utah 84114-5506 Phone: (801)535-6157
	MARK DATE DESCRIPTION
	CONTRACT #: PROJECT #: 300124 BW PN #: 2011 DRAWING FILE: DRAWN BY: D. BOUDRERO CHECKED BY: K. DANA COPYRIGHT:
	SHEET TITLE:
	S 001 BINDING 32

SECTION 1704.2.5 FABRICATORS

APPROVED FABRICATOR - YES

FABRICATORS NAME:CONTECH. BIG R BRIDGE. EXCEL BRIDGE. WHEELER BRIDGE. US BRIDGE. OTHER MANUFACTURERS SHALL BE APPROVED BASED ON EXPERIENCE BY THE ENGINEER

FABRICATOR'S PLANT LOCATION:

REQUIRED IN-PLANT INSPECTIONS: NONE.

SECTION 1705.3 REQUIRED VERIFICATION AND INSPECTION OF CONCRETE CONSTRUCTION

	1			
VERIFICATION AND INSPECTION		PERIODIC	REFERENCED STANDARD	<u>IBC</u> REFERENCE
1. INSPECTION OF REINFORCING STEEL, INCLUDING PRESTRESSING TENDONS, AND VERIFY PLACEMENT.		х	ACI 318 CH. 20, 25.2, 25.3, 26.6.1-26.6.3	1908.4
2. INSPECT ANCHORS CAST IN CONCRETE.		Х	ACI 318:17.8.2	
3. INSPECT ANCHORS POST-INSTALLED IN HARDENED CONCRETE MEMBERS.				
a. ADHESIVE ANCHORS INSTALLED IN HORIZONTALLY OR UPWARDLY INCLINED ORIENTATIONS TO RESIST SUSTAINED TENSION LOADS.	x		ACI 318:17.8.2.4	
b. MECHANICAL ANCHORS AND ADHESIVE ANCHORS NOT DEFINED IN 3.a.		х	ACI 318: 17.8.2	
4. VERIFYING USE OF REQUIRED DESIGN MIX.		х	ACI 318: CH. 19, 26.4.3, 26.4.4	1904.1, 1904.2, 1908.2, 1908.3
5. PRIOR TO CONCRETE PLACEMENT, FABRICATE SPECIMENS FOR STRENGTH TESTS, PERFORM SLUMP AND AIR CONTENT TESTS, AND DETERMINE THE TEMPERATURE OF THE CONCRETE.	x		ASTM C172, ASTM C31, ACI 318: 26.4, 26.12	1908.10
6. INSPECT CONCRETE AND SHOTCRETE PLACEMENT FOR PROPER APPLICATION TECHNIQUES.	x		ACI 318: 26.5	1908.6, 1908.7, 1908.8
 VERIFY MAINTENANCE OF SPECIFIED CURING TEMPERATURE AND TECHNIQUES. 		х	ACI 318: 26.5.3-26.5.5	1908.9
8. INSPECT FORMWORK FOR SHAPE, LOCATION AND DIMENSIONS OF THE CONCRETE MEMBER BEING FORMED.		х	ACI 318: 26.11.1.2(b)	

SECTION 1705.6 REQUIRED VERIFICATION AND INSPECTION OF SOILS

VERIFICATION AND INSPECTION	CONTINUOUS DURING TASK LISTED	PERIODICALLY DURING TASK LISTED
1. VERIFY MATERIALS BELOW SHALLOW FOUNDATIONS ARE ADEQUATE TO ACHIEVE THE DESIGN BEARING CAPACITY.		Х
2. VERIFY EXCAVATIONS ARE EXTENDED TO PROPER DEPTH AND HAVE REACHED PROPER MATERIAL.		Х
3. PERFORM CLASSIFICATION AND TESTING OF COMPACTED FILL MATERIALS.		Х
4. VERIFY USE OF PROPER MATERIALS, DENSITIES AND LIFT THICKNESSES DURING PLACEMENT AND COMPACTION OF COMPACTED FILL.	х	
5. PRIOR TO PLACEMENT OF COMPACTED FILL, OBSERVE SUBGRADE AND VERIFY THAT SITE HAS BEEN PREPARED PROPERLY.		X

QUALITY ASSURANCE PLAN

- DOCUMENTS.
- 2 FOR A BUILDING PERMIT.
- 3 BUILDING OFFICIAL.
- 4. 1704.2.5.1.
- 5. SHALL BE PROVIDED IN ACCORDANCE WITH TABLE 1705.3.
- 6.
- 7. REPORT TO ENGINEER PRIOR TO INSTALLATION.

QUALITY ASSURANCE CONTRACTOR RESPONSIBILITY

EACH CONTRACTOR RESPONSIBLE FOR THE CONSTRUCTION OF A COMPONENT LISTED IN THE QUALITY ASSURANCE PLAN SHALL SUBMIT A WRITTEN CONTRACTOR'S STATEMENT OF RESPONSIBILITY TO THE BUILDING OFFICIAL AND TO THE OWNER PRIOR TO THE COMMENCEMENT OF WORK ON THE SYSTEM OR COMPONENT IN ACCORDANCE WITH IBC SECTION 1704.4. THE CONTRACTOR'S STATEMENT OF RESPONSIBILITY SHALL CONTAIN THE FOLLOWING:

- Α. CONTAINED IN THE QUALITY ASSURANCE PLAN.
- B. BY THE BUILDING OFFICIAL.
- C. THE DISTRIBUTION OF REPORTS.
- D.

SPECIAL INSPECTION SHALL BE PROVIDED ACCORDING TO IBC CHAPTER 17 FOR THE ITEMS IDENTIFIED IN THIS SECTION AND ON THE CONTRACT

THE NAMES AND CREDENTIALS OF SPECIAL INSPECTORS TO BE USED SHALL BE SUBMITTED TO THE BUILDING DEPARTMENT WHEN APPLYING

SPECIAL INSPECTION REPORTS SHALL BE DELIVERED TO THE OWNER BI-WEEKLY OR MORE FREQUENTLY AS REQUIRED BY THE INSPECTOR OR

OFF-SITE FABRICATION: WHERE FABRICATION OF STRUCTURAL LOAD-BEARING MEMBERS AND ASSEMBLIES IS BEING PERFORMED ON THE PREMISES OF A FABRICATORS SHOP, SPECIAL INSPECTION OF THE FABRICATED ITEMS SHALL BE IN ACCORDANCE WITH IBC SECTION 1704.2.5 UNLESS THE FABRICATOR IS APPROVED ACCORDING TO IBC SECTION

CONCRETE CONSTRUCTION: SPECIAL INSPECTIONS AND VERIFICATIONS

SOILS: SPECIAL INSPECTION SHALL BE PROVIDED FOR PLACEMENT OF FILL 12 INCHES OR MORE DEEP IN ACCORDANCE WITH SECTION 1705.6.

EPOXY ANCHORS: PRIOR TO AND DURING EPOXY INJECTION TO INSURE PROPER INSTALLATION AS PER MANUFACTURERS REQUIREMENTS. CONTRACTOR SHALL SUBMIT PROPOSED EPOXY MANUFACTURERS I.C.B.O.

ACKNOWLEDGMENT OF AWARENESS OF THE SPECIAL REQUIREMENTS

ACKNOWLEDGMENT THAT CONTROL WILL BE EXERCISED TO OBTAIN CONFORMANCE WITH THE CONSTRUCTION DOCUMENTS APPROVED

PROCEDURES FOR EXERCISING CONTROL WITHIN THE CONTRACTOR'S ORGANIZATION, THE METHOD AND FREQUENCY OF REPORTING, AND

IDENTIFICATION AND QUALIFICATIONS OF THE PERSON(S) EXERCISING SUCH CONTROL AND THE POSITION(S) IN THE ORGANIZATION.

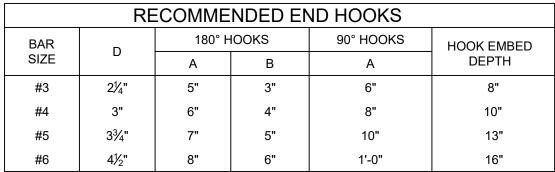


REINFORCEMENT LAP LENGTHS										
CONCRETE DESIGN STRENGTH - 4500 PSI										
BAR SIZE	#3	#4	#5	#6						
TOP BAR	1'-7"	2'-1"	2'-7"	3'-1"						
OTHER BAR	1'-3"	1'-7"	2'-0"	2'-5"						

NOTES:

- ALL REINFORCEMENT LAPS, UNLESS OTHERWISE NOTED, SHALL 1. SATISFY THE MINIMUM REQUIREMENTS SHOWN IN THE TABLE "REINFORCEMENT LAP LENGTHS."
- 2. TOP BARS SHALL BE DEFINED AS ANY HORIZONTAL BARS PLACED SUCH THAT MORE THAN 12" OF FRESH CONCRETE IS CAST IN THE MEMBER BELOW THE BAR, IN ANY SINGLE POUR. HORIZONTAL WALL BARS ARE CONSIDERED TOP BARS.

CONCRETE REINFORCEMENT LAP & DEVELOPMENT SCHEDULES

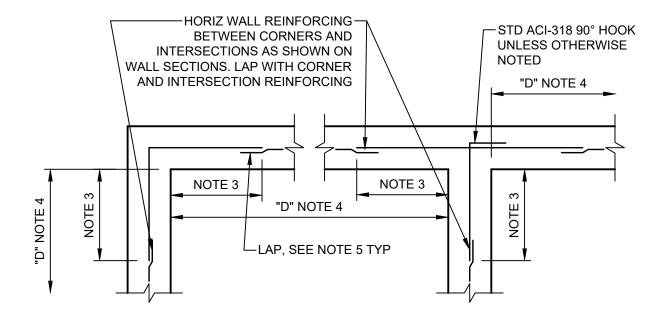


STD. CONCRETE HOOK SCHEDULE

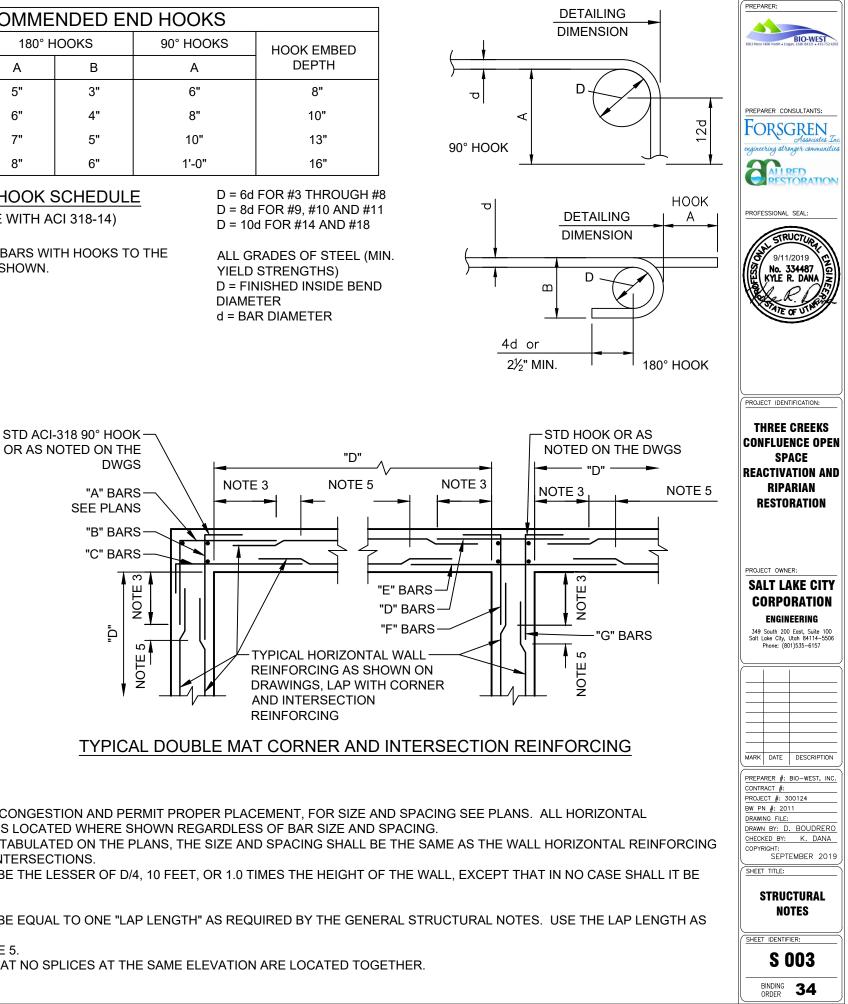
(IN ACCORDANCE WITH ACI 318-14)

NOTE: EMBED BARS WITH HOOKS TO THE DEPTH SHOWN.

YIELD STRENGTHS) D = FINISHED INSIDE BEND DIAMETER d = BAR DIAMETER



TYPICAL SINGLE MAT CORNER AND INTERSECTION REINFORCING



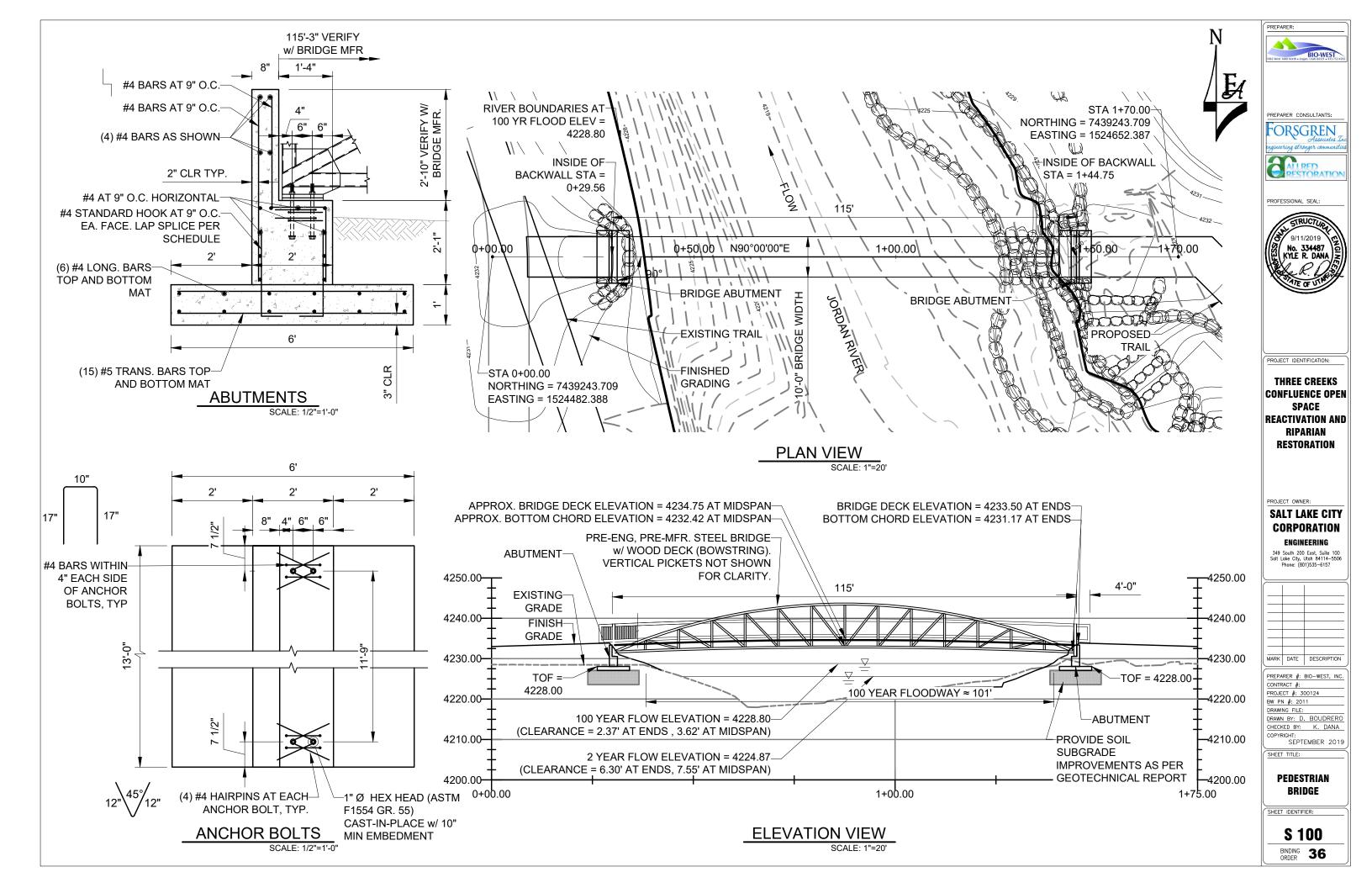
NOTES FOR CORNER AND INTERSECTION REINFORCING DETAILS

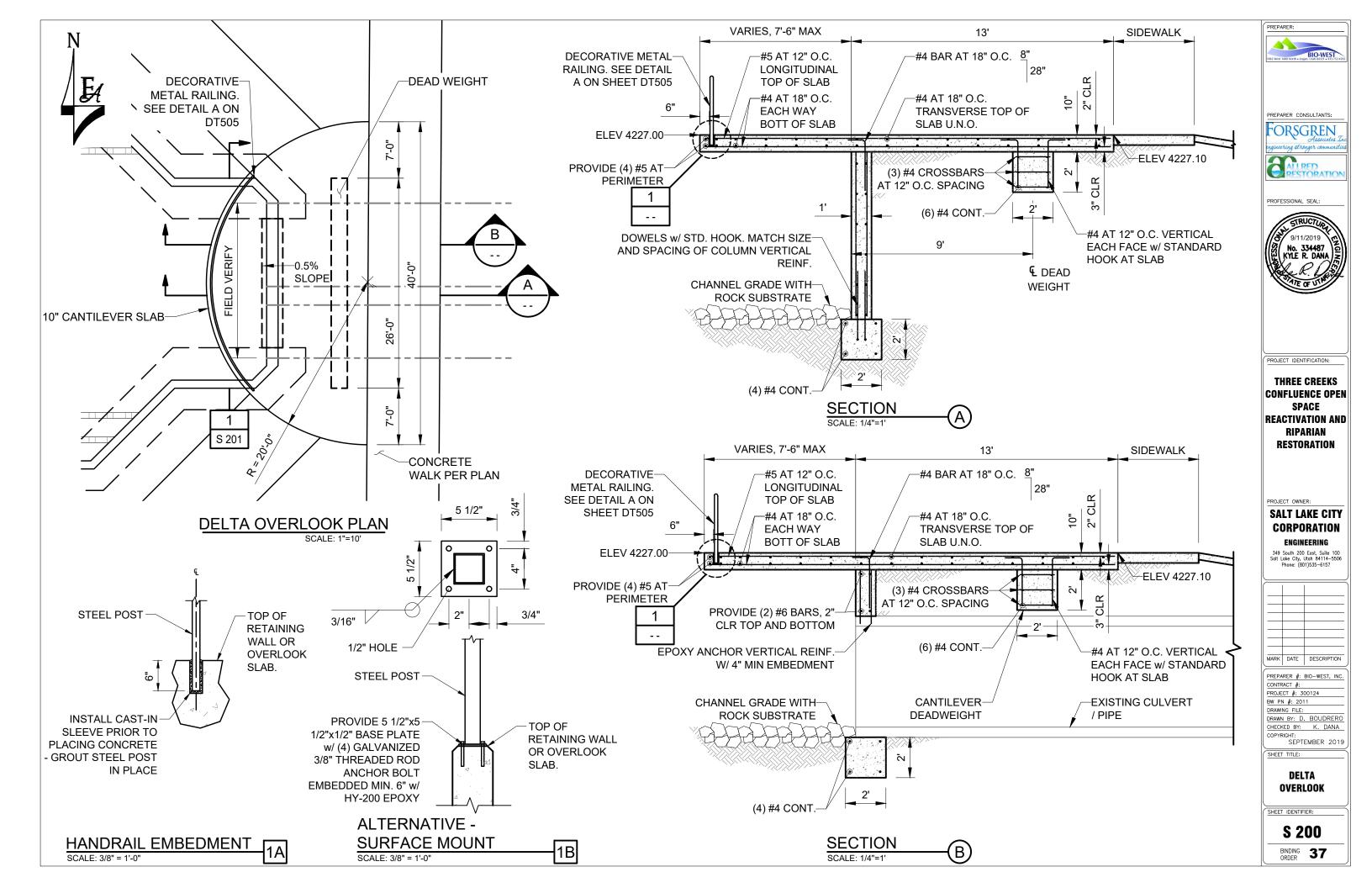
- TYPICAL HORIZONTAL WALL CORNER AND INTERSECTION REINFORCING LAYOUT IS SHOWN TO AVOID CONGESTION AND PERMIT PROPER PLACEMENT, FOR SIZE AND SPACING SEE PLANS. ALL HORIZONTAL 1 REINFORCING AT CORNERS AND INTERSECTIONS SHALL BE FABRICATED AND INSTALLED WITH SPLICES LOCATED WHERE SHOWN REGARDLESS OF BAR SIZE AND SPACING.
- WHERE THE CORNER OR INTERSECTION REINFORCING SIZE AND SPACING IS NOT SHOWN, NOTED OR TABULATED ON THE PLANS, THE SIZE AND SPACING SHALL BE THE SAME AS THE WALL HORIZONTAL REINFORCING 2. SHOWN ON THE WALL SECTIONS OR AS NOTED FOR THE REINFORCING BETWEEN THE CORNERS OR INTERSECTIONS.
- EXCEPT WHERE OTHERWISE SHOWN ON THE DRAWINGS. THE LENGTH INDICATED AS "NOTE 3" SHALL BE THE LESSER OF D/4. 10 FEET. OR 1.0 TIMES THE HEIGHT OF THE WALL. EXCEPT THAT IN NO CASE SHALL IT BE 3. LESS THAN THE SPLICE LENGTH.
- D = LENGTH OF WALL PARALLEL TO THE BAR LENGTH IN QUESTION. 4.
- EXCEPT WHERE OTHERWISE SHOWN ON THE DRAWINGS, THE LENGTH INDICATED AS "NOTE 5" SHALL BE EQUAL TO ONE "LAP LENGTH" AS REQUIRED BY THE GENERAL STRUCTURAL NOTES. USE THE LAP LENGTH AS 5 REQUIRED FOR THE SMALLER OF THE TWO REINFORCING BARS BEING SPLICED.
- HORIZONTAL BARS IN WALLS SHALL HAVE SPLICES STAGGERED ONE LAP LENGTH AS DEFINED IN NOTE 5. 6
- ALTERNATE SPLICE LOCATIONS OF HORIZONTAL BARS IN WALLS BETWEEN THE TWO CURTAINS SO THAT NO SPLICES AT THE SAME ELEVATION ARE LOCATED TOGETHER. 7.

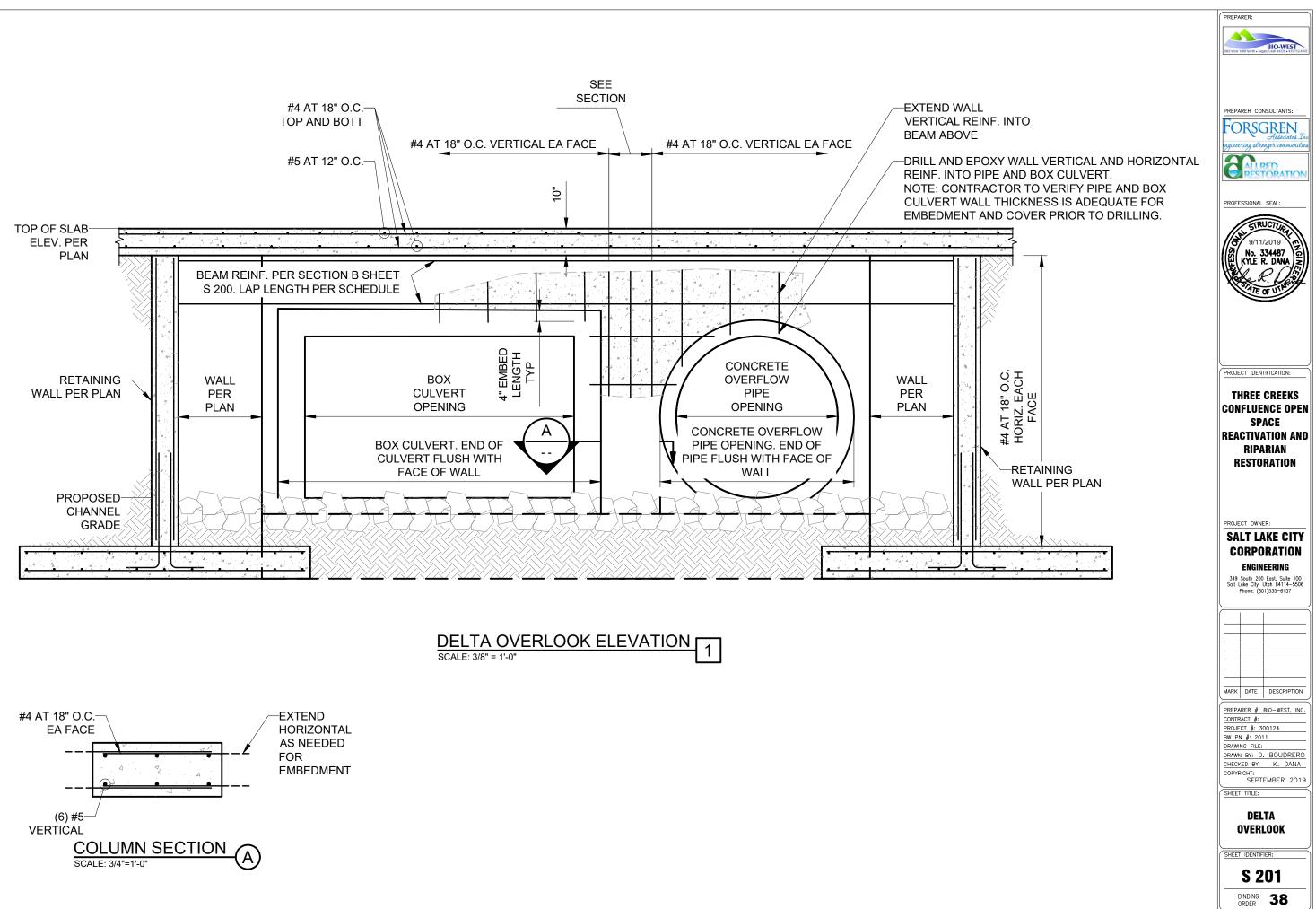
MATERIALS TESTING

- A. CONCRETE TESTS: TESTING OF COMPOSITE SAMPLES OF FRESH CONCRETE OBTAINED ACCORDING TO ASTM C 172 SHALL BE PERFORMED ACCORDING TO THE FOLLOWING REQUIREMENTS:
 - 1. TESTING FREQUENCY: OBTAIN ONE COMPOSITE SAMPLE FOR EACH DAY'S POUR OF EACH CONCRETE MIXTURE EXCEEDING 5 CU. YD., BUT LESS THAN 25 CU. YD. PLUS ONE SET FOR EACH ADDITIONAL 50 CU. YD. OR FRACTION THEREOF.
 - a. IF THE TOTAL VOLUME OF CONCRETE ON A GIVEN STRUCTURE IS SUCH THAT THE FREQUENCY OF TESTING WILL PROVIDE LESS THAN FIVE COMPRESSIVE-STRENGTH TESTS FOR EACH CONCRETE MIXTURE, TESTING SHALL BE CONDUCTED FROM AT LEAST FIVE RANDOMLY SELECTED BATCHES OR FROM EACH BATCH IF FEWER THAN FIVE ARE USED.
 - 2. SLUMP: ASTM C 143/C 143M; ONE TEST AT POINT OF PLACEMENT FOR EACH COMPOSITE SAMPLE, BUT NOT LESS THAN ONE TEST FOR EACH DAY'S POUR OF EACH CONCRETE MIXTURE. PERFORM ADDITIONAL TESTS WHEN CONCRETE CONSISTENCY APPEARS TO CHANGE.
 - 3. AIR CONTENT: ASTM C 231, PRESSURE METHOD, FOR NORMAL-WEIGHT CONCRETE; ONE TEST FOR EACH COMPOSITE SAMPLE, BUT NOT LESS THAN ONE TEST FOR EACH DAY'S POUR OF EACH CONCRETE MIXTURE.
 - 4. CONCRETE TEMPERATURE: ASTM C 1064/C 1064M; ONE TEST HOURLY WHEN AIR TEMPERATURE IS 40 DEG F AND BELOW AND WHEN 80 DEG F AND ABOVE, AND ONE TEST FOR EACH COMPOSITE SAMPLE
 - 5. UNIT WEIGHT: ASTM C 567, FRESH UNIT WEIGHT OF STRUCTURAL LIGHTWEIGHT CONCRETE; ONE TEST FOR EACH COMPOSITE SAMPLE, BUT NOT LESS THAN ONE TEST FOR EACH DAY'S POUR OF EACH CONCRETE MIXTURE.
 - 6. COMPRESSION TEST SPECIMENS: ASTM C 31/C 31M.
 - a. CAST AND LABORATORY CURE THREE SETS OF TWO STANDARD CYLINDER SPECIMENS FOR EACH COMPOSITE SAMPLE.
 - b. CAST AND FIELD CURE THREE SETS OF TWO STANDARD CYLINDER SPECIMENS FOR EACH COMPOSITE SAMPLE.
 - 7. COMPRESSIVE-STRENGTH TESTS: ASTM C 39/C 39M; TEST ONE SET OF TWO LABORATORY-CURED SPECIMENS AT 7 DAYS, TEST ONE SET OF TWO LABORATORY-CURED SPECIMENS AT 14 DAYS, AND ONE SET OF TWO SPECIMENS AT 28 DAYS.
 - a. TEST ONE SET OF TWO FIELD-CURED SPECIMENS AT 7 DAYS, ONE SET OF TWO FIELD-CURED SPECIMENS AT 14 DAYS, AND ONE SET OF TWO SPECIMENS AT 28 DAYS.
 - b. A COMPRESSIVE-STRENGTH TEST SHALL BE THE AVERAGE COMPRESSIVE STRENGTH FROM A SET OF TWO SPECIMENS OBTAINED FROM SAME COMPOSITE SAMPLE AND TESTED AT AGE INDICATED.
- B. COMPACTION TESTING:
 - 1. 8" MAXIMUM LIFTS ON IMPORTED GRANULAR BORROW AS REQUIRED.
 - 2. PROVIDE A MINIMUM OF (1) DENSITY TEST PER LIFT AT EACH BRIDGE FOOTING AND MINIMUM (1) TEST PER LIFT OF 25 FOOT SPACING FOR RETAINING WALL SUBGRADE PREPARATION.

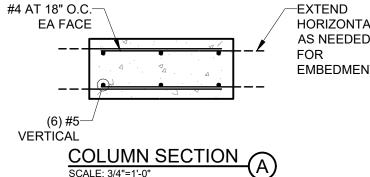
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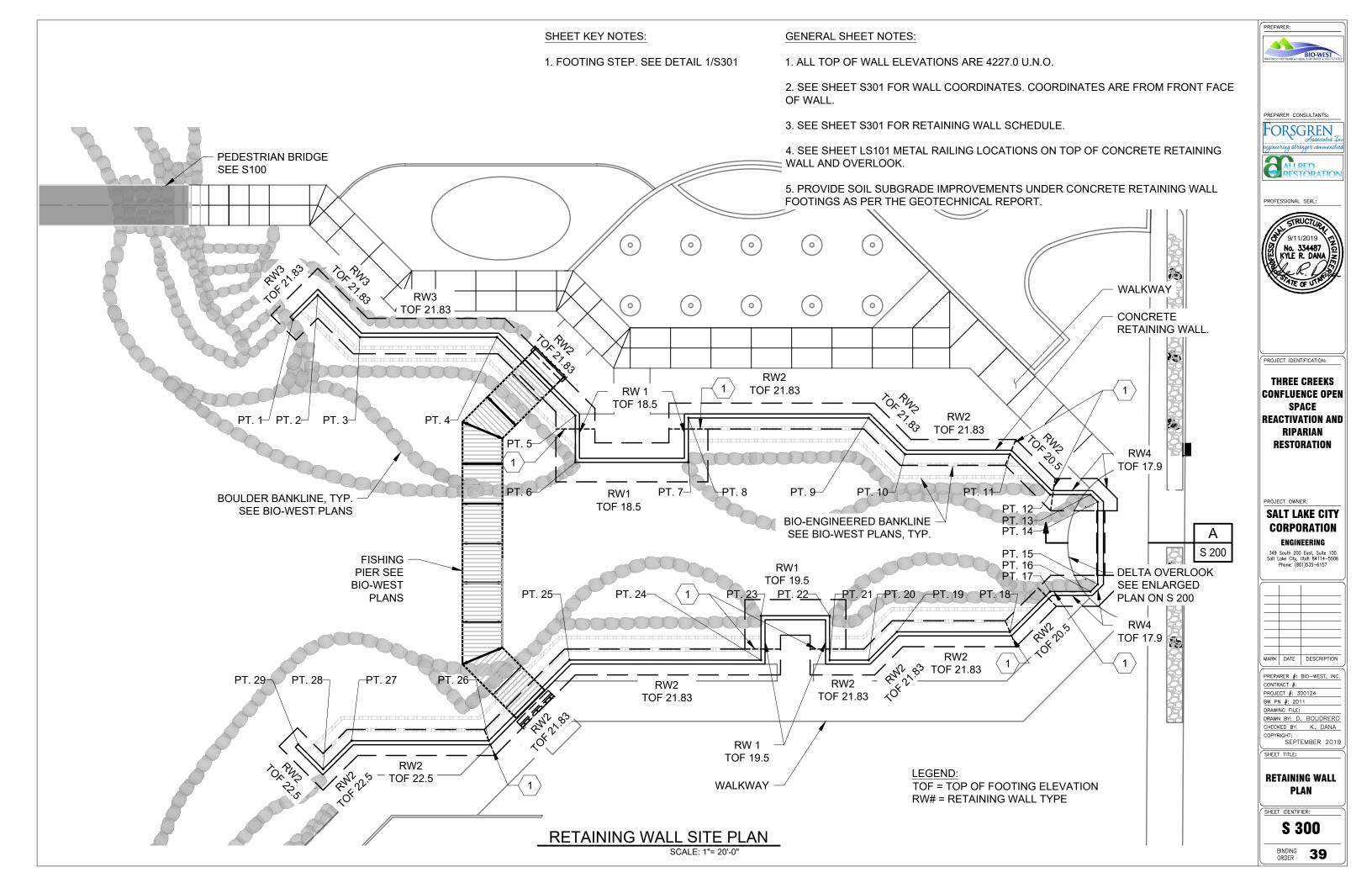


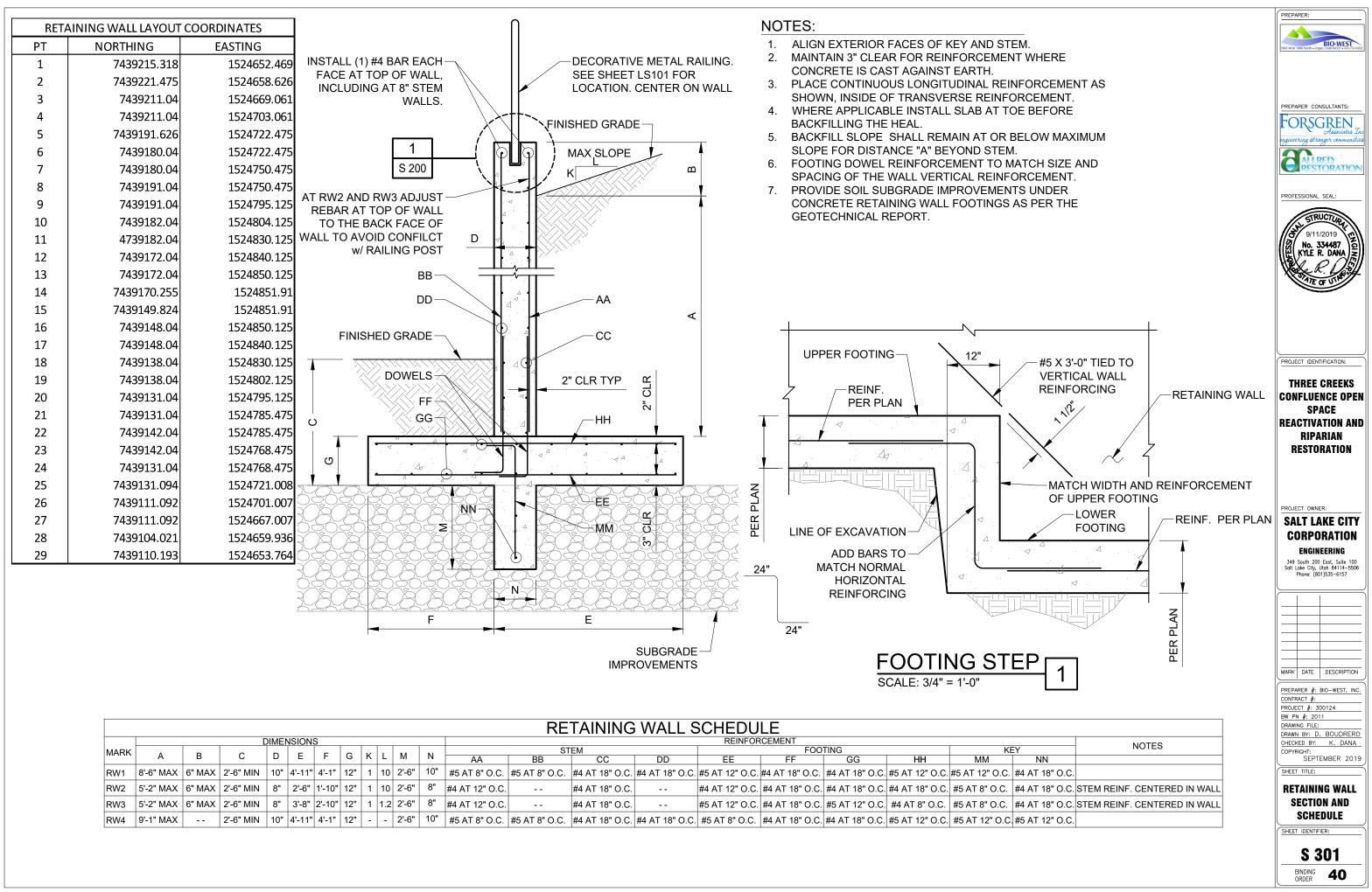












RETAINING WALL SCHEDULE																					
DIMENSIONS REINFORCEMENT																					
MARK						N		ST	ΈM		FOOTING				KEY						
	A	В	L L	טן	E	F	G	ĸ	L	М	N	AA	BB	CC	DD	EE	FF	GG	HH	MM	
RW1	8'-6" MAX	6" MAX	2'-6" MIN	10"	4'-11"	4'-1"	12"	1	10	2'-6"	10"	#5 AT 8" O.C.	#5 AT 8" O.C.	#4 AT 18" O.C.	#4 AT 18" O.C.	#5 AT 12" O.C.	#4 AT 18" O.C.	#4 AT 18" O.C.	#5 AT 12" O.C.	#5 AT 12" O.C.	#
RW2	5'-2" MAX	6" MAX	2'-6" MIN	8"	2'-6"	1'-10"	' 12"	1	10	2'-6"	8"	#4 AT 12" O.C.		#4 AT 18" O.C.		#4 AT 12" O.C.	#4 AT 18" O.C.	#4 AT 18" O.C.	#4 AT 18" O.C.	#5 AT 8" O.C.	#
RW3	5'-2" MAX	6" MAX	2'-6" MIN	8"	3'-8"	2'-10"	' 12"	1	1.2	2'-6"	8"	#4 AT 12" O.C.		#4 AT 18" O.C.		#5 AT 12" O.C.	#4 AT 18" O.C.	#5 AT 12" O.C.	#4 AT 8" O.C.	#5 AT 8" O.C.	#
RW4	9'-1" MAX		2'-6" MIN	10"	4'-11"	4'-1"	12"	-	-	2'-6"	10"	#5 AT 8" O.C.	#5 AT 8" O.C.	#4 AT 18" O.C.	#4 AT 18" O.C.	#5 AT 8" O.C.	#4 AT 18" O.C.	#4 AT 18" O.C.	#5 AT 12" O.C.	#5 AT 12" O.C	#

