

CITY OF SALIDA COLORADO

ARKANSAS RIVER WW PARK MAINTENANCE

NOVEMBER 10, 2023

PROPOSED MAINTENANCE DATES: JANUARY-FEBRUARY 2024



COLORADO ONE-CALL IS THE UNDERGROUND UTILITY NOTIFICATION CENTER FOR THE STATE OF COLORADO. THROUGH THIS FACILITY, CONTRACTORS CAN NOTIFY OPERATORS OF UNDERGROUND FACILITIES OF PROPOSED EXCAVATIONS TO REQUEST THAT THE UNDERGROUND FACILITIES BE MARKED BEFORE YOU DIG. CONTRACTORS WHO ENGAGES IN ANY TYPE OF EXCAVATION ARE REQUIRED TO CONTACT COLORADO ONE-CALL AND PROVIDE ADVANCED NOTICE.

CONTRACTOR MUST CALL THE 811 HOTLINE OR 800-922-1987 AT LEAST TWO WORKING DAYS PRIOR TO BEGINNING EXCAVATION. THE HOTLINE OPERATOR WILL NOTIFY LOCAL UTILITIES OF THE DIG LOCATION, AND UTILITY REPRESENTATIVES WILL MARK UNDERGROUND UTILITIES WITH PAINT OR FLAGS. PRIVATE PROPERTY UTILITY LINES WILL NOT BE LOCATED BY THE REPRESENTATIVE. CONTRACTOR IS RESPONSIBLE FOR LOCATING AND PROTECTING ALL UTILITIES FROM DAMAGE.

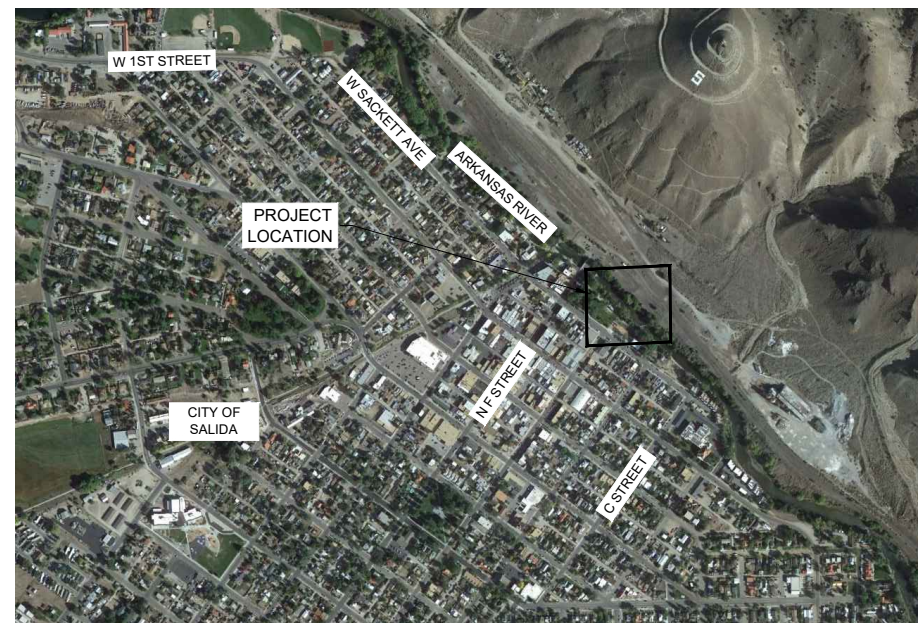
PROJECT:

THE SCOPE OF WORK FOR THIS PROJECT INCLUDES BUT IS NOT LIMITED TO THE REMOVAL AND REPLACEMENT OF LARGE GROUTED BOULDERS, CONCRETE, AND NATIVE COBBLE ARMORING AT, ADJACENT TO, AND APPURTENANT TO AN EXISTING RIVER STRUCTURE. THIS RIVER STRUCTURE IS A POPULAR TAKE-OUT AND DESTINATION FOR RIVER RECREATIONALISTS IN THE CITY OF SALIDA AND IS SCHEDULED FOR REPAIR/MAINTENANCE/MODIFICATION/IMPROVEMENT. CHANNEL GRADING, BANK STABILIZATION AND GREENWAY TRAIL MAINTENANCE/MODIFICATION IS ALSO PROPOSED AS PART OF THIS STRUCTURE MAINTENANCE PROJECT. THE EXISTING STRUCTURE WILL BE REPAIRED AND MODIFIED AT THE SAME LOCATION AS EXISTING WITH THE SAME MATERIALS.

PROJECT LOCATION:

LATITUDE: 38°32'11.7"N
LONGITUDE: 105°59'20.0"W

CHAFFEE COUNTY



VICINITY MAP



SCOUT WAVE SITE PLAN



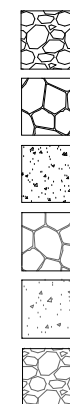
SHEET INDEX:

- 01 COVER SHEET
- 02 EXISTING CONDITIONS
- 03 STAGING, ACCESS, WATER CONTROL
- 04 PROPOSED STRUCTURE MAINTENANCE
- 05 STRUCTURE PLAN VIEW
- 06 STRUCTURE PROFILES
- 07 STRUCTURE CROSS SECTIONS
- 08 STRUCTURE PROFILES
- 09 BANK TRAIL DETAILS
- 10 WATER CONTROL TYPICAL
- 11 TYPICAL BMPs

PROJECT OWNER:

CITY OF SALIDA COLORADO
448 E. FIRST STREET, SUITE 112
SALIDA, COLORADO 81201

LEGEND:



- RIPRAP
- GROUTED BOULDER STRUCTURE
- CONCRETE STRUCTURES
- EXISTING GROUTED BOULDER STRUCTURES
- EXISTING CONCRETE STRUCTURES
- EXISTING 18" SCOUR PROTECTION AND/OR NATIVE ARMOR MATERIALS

ABBREVIATIONS:

- AVG AVERAGE
- DTL DETAIL
- E EAST
- ELEV ELEVATION
- FT FEET
- IN INCHES
- MAX MAXIMUM
- MIN MINIMUM
- N NORTH
- NTS NOT TO SCALE
- OC ON CENTER
- OHWM ORDINARY HIGH WATER MARK
- SHT SHEET
- STA STATION
- STD STANDARD
- TYP TYPICAL

RECREATION ENGINEERING AND PLANNING
485 ARAPAHOE AVE.
BOULDER, CO 80302
WWW.BOATERPARKS.COM

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448 E. FIRST STREET
SUITE 112
SALIDA, CO 81201

ARKANSAS RIVER WW PARK MAINTENANCE
SALIDA, COLORADO
ARKANSAS RIVER
90% DESIGN SET
COVER & TOC

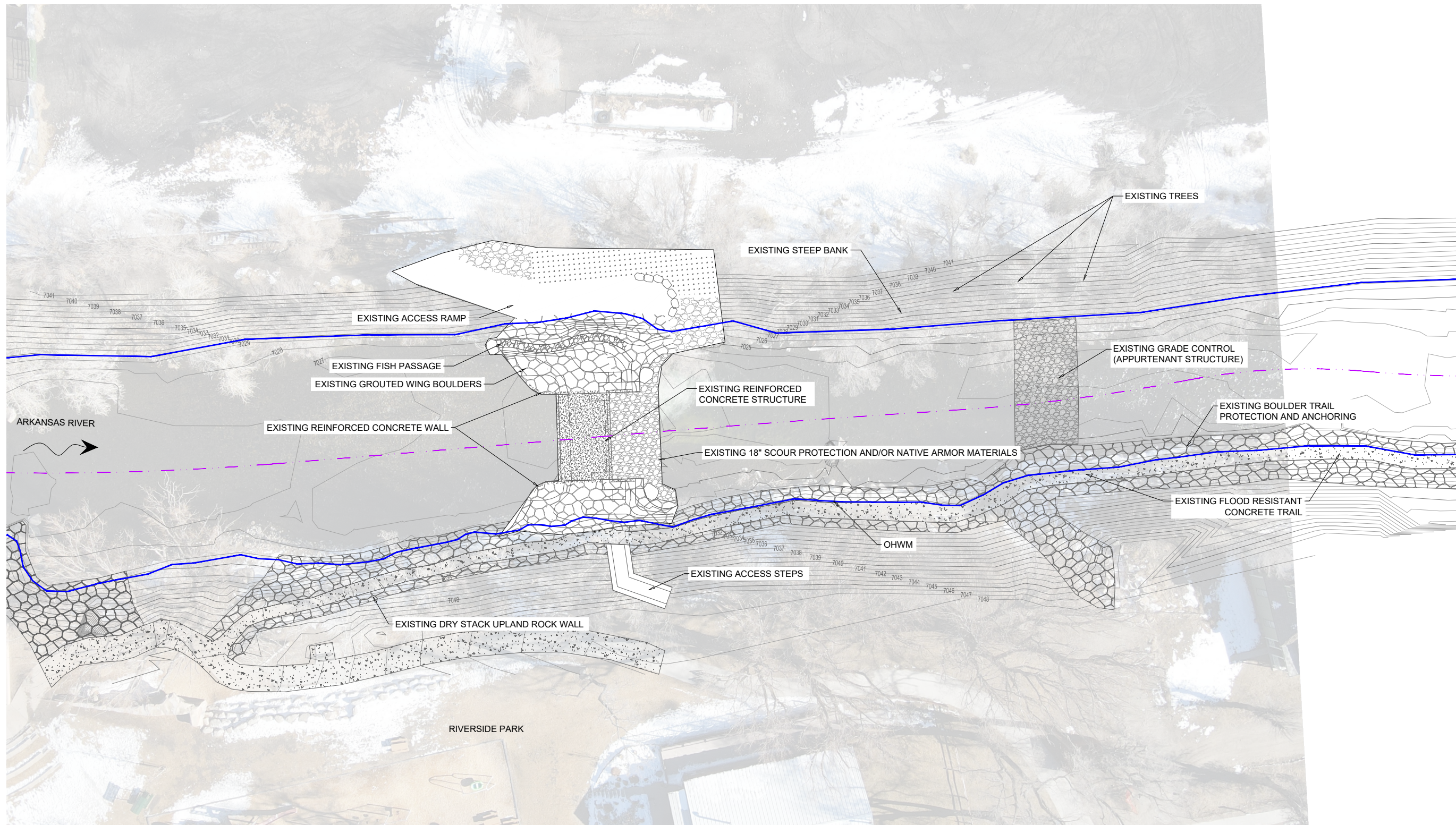
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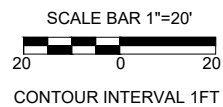
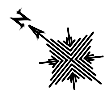
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1
SHEET 1 OF 12

**PERMIT SET FOR REVIEW
NOT FOR CONSTRUCTION**



EXISTING SCOUT WAVE PLAN VIEW

- - - - - WATERWAY CENTERLINE (THALWEG)
- ORDINARY HIGH WATER MARK (OHWM)



HATCH LEGEND

- EXISTING GROUTED BOULDER STRUCTURES
- EXISTING CONCRETE STRUCTURES
- EXISTING 18" SCOUR PROTECTION AND/OR NATIVE ARMOR MATERIALS

NOTE:

NO PARCEL BOUNDARIES ARE SHOWN ON ANY SHEETS FOR CLARITY. ALL PROPOSED WORK WILL TAKE PLACE ON CITY OF SALIDA PROPERTY OR TRAIL & MAINTENANCE EASEMENT AGREEMENTS WITH THE CITY.

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EXISTING SCOUT WAVE STRUCTURE

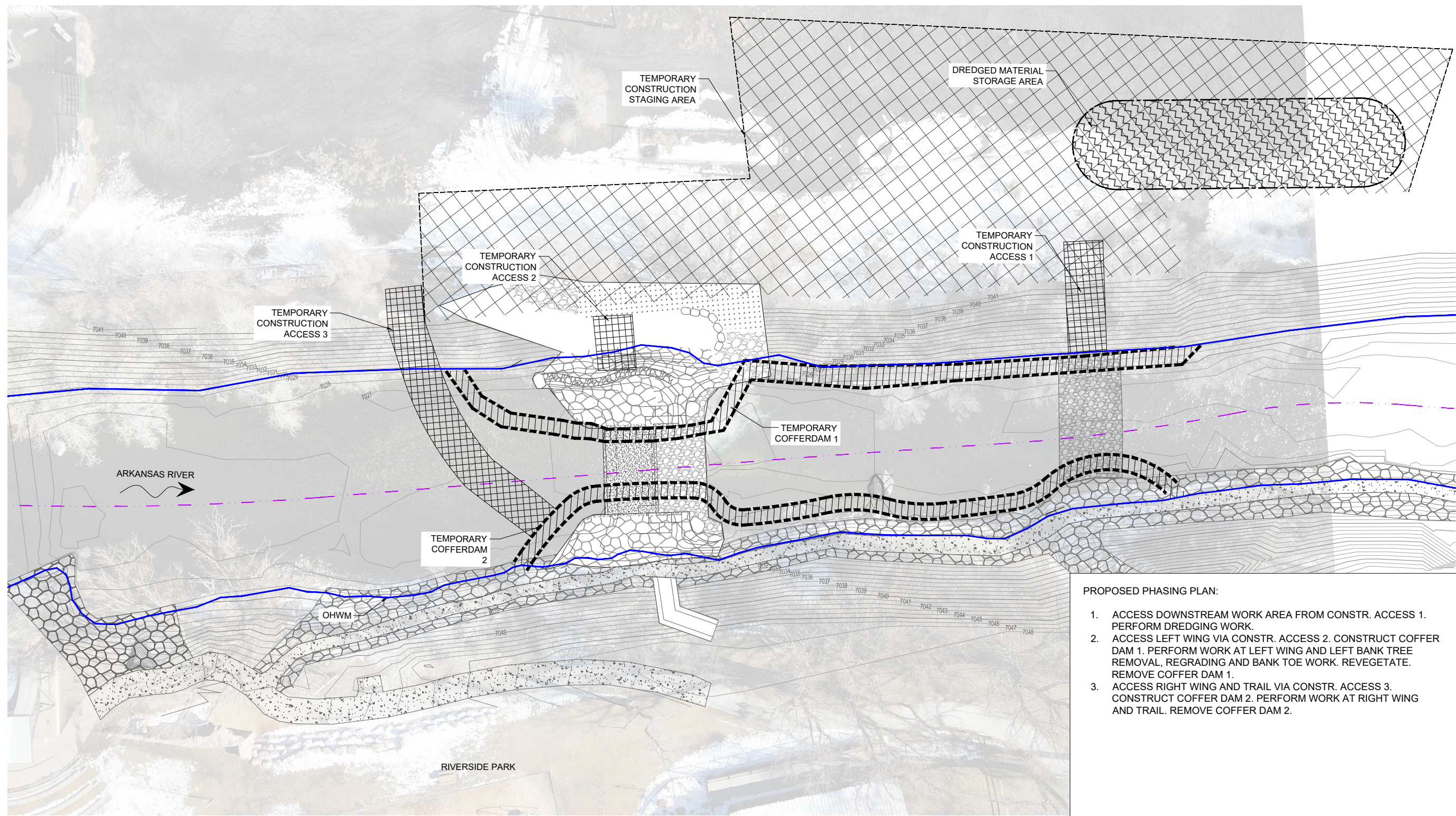
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SHEET 2 OF 12



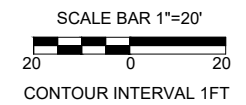
- PROPOSED PHASING PLAN:**
1. ACCESS DOWNSTREAM WORK AREA FROM CONSTR. ACCESS 1. PERFORM DREDGING WORK.
 2. ACCESS LEFT WING VIA CONSTR. ACCESS 2. CONSTRUCT COFFER DAM 1. PERFORM WORK AT LEFT WING AND LEFT BANK TREE REMOVAL, REGRADING AND BANK TOE WORK. REVEGETATE. REMOVE COFFER DAM 1.
 3. ACCESS RIGHT WING AND TRAIL VIA CONSTR. ACCESS 3. CONSTRUCT COFFER DAM 2. PERFORM WORK AT RIGHT WING AND TRAIL. REMOVE COFFER DAM 2.

NOTE:
 THE WATER CONTROL AND CONSTRUCTION PHASING PLAN SHOWN HERE IS PRELIMINARY AND INTENDED TO DEMONSTRATE ONE POSSIBLE PHASING APPROACH THAT IS FEASIBLE. FINAL WATER CONTROL AND PHASING PLAN TO BE DEVELOPED BY SELECTED CONSTRUCTION CONTRACTOR, AND SUBMITTED TO ENGINEER FOR REVIEW AND APPROVAL.

LEGEND

- CONSTRUCTION STAGING
- ORDINARY HIGH WATER MARK (OHWM)
- TEMPORARY COFFERDAM
- [Hatched Box] TEMPORARY CONSTRUCTION STAGING
- [Cross-hatched Box] TEMPORARY CONSTRUCTION ACCESS
- [Wavy Hatched Box] DREDGED MATERIAL STORAGE AREA
- [Diagonal Hatched Box] TEMPORARY COFFER DAM

STAGING, ACCESS, WATER CONTROL AND MATERIAL STORAGE



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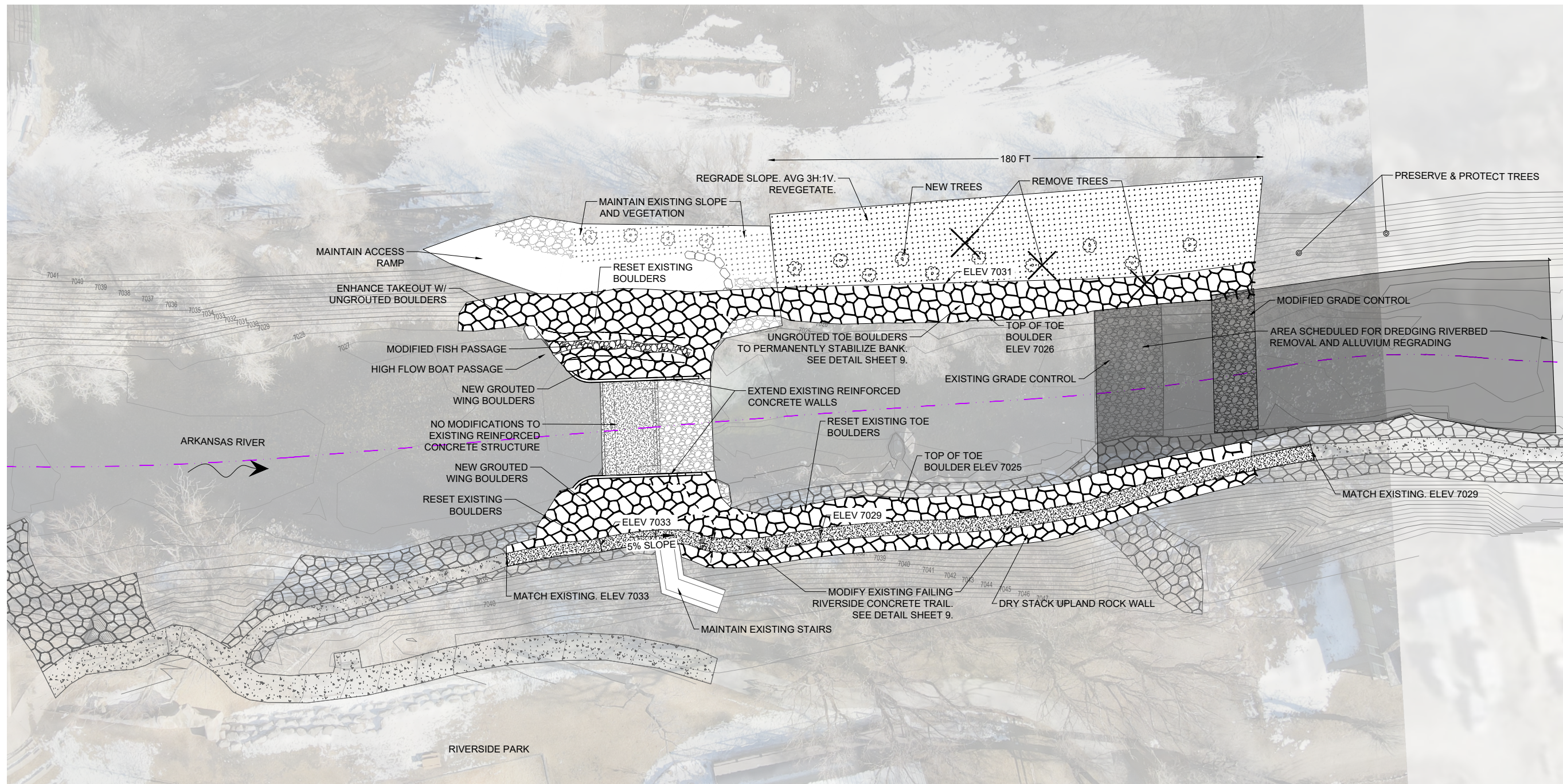
ARKANSAS RIVER WW PARK MAINTENANCE
 ARKANSAS RIVER SALIDA, COLORADO
 90% DESIGN SET
 STAGING ACCESS WATER CONTROL

REVISIONS:

NO.	DATE

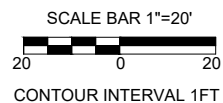
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 SHEET 3 OF 12



SALIDA SCOUT WAVE MAINTENANCE IMPROVEMENTS PLAN VIEW

- WATERWAY CENTERLINE (THALWEG)
- ORDINARY HIGH WATER MARK (OHWM)



HATCH LEGEND

- | | | | |
|--|----------------------------|--|-------------------------------------------------------------|
| | GROUTED BOULDER STRUCTURES | | EXISTING GROUTED BOULDER STRUCTURES |
| | CONCRETE STRUCTURES | | EXISTING CONCRETE STRUCTURES |
| | RIPRAP | | EXISTING 18" SCOUR PROTECTION AND/OR NATIVE ARMOR MATERIALS |



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ARKANSAS RIVER WW PARK MAINTENANCE

ARKANSAS RIVER SALIDA, COLORADO

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PROPOSED STRUCTURE MODIFICATIONS

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PLOT DATE: 11/10/2023

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SHEET 4 OF 12

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ARKANSAS RIVER SALIDA, COLORADO

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PLAN VIEW STRUCTURE MODIFICATIONS

REVISIONS:

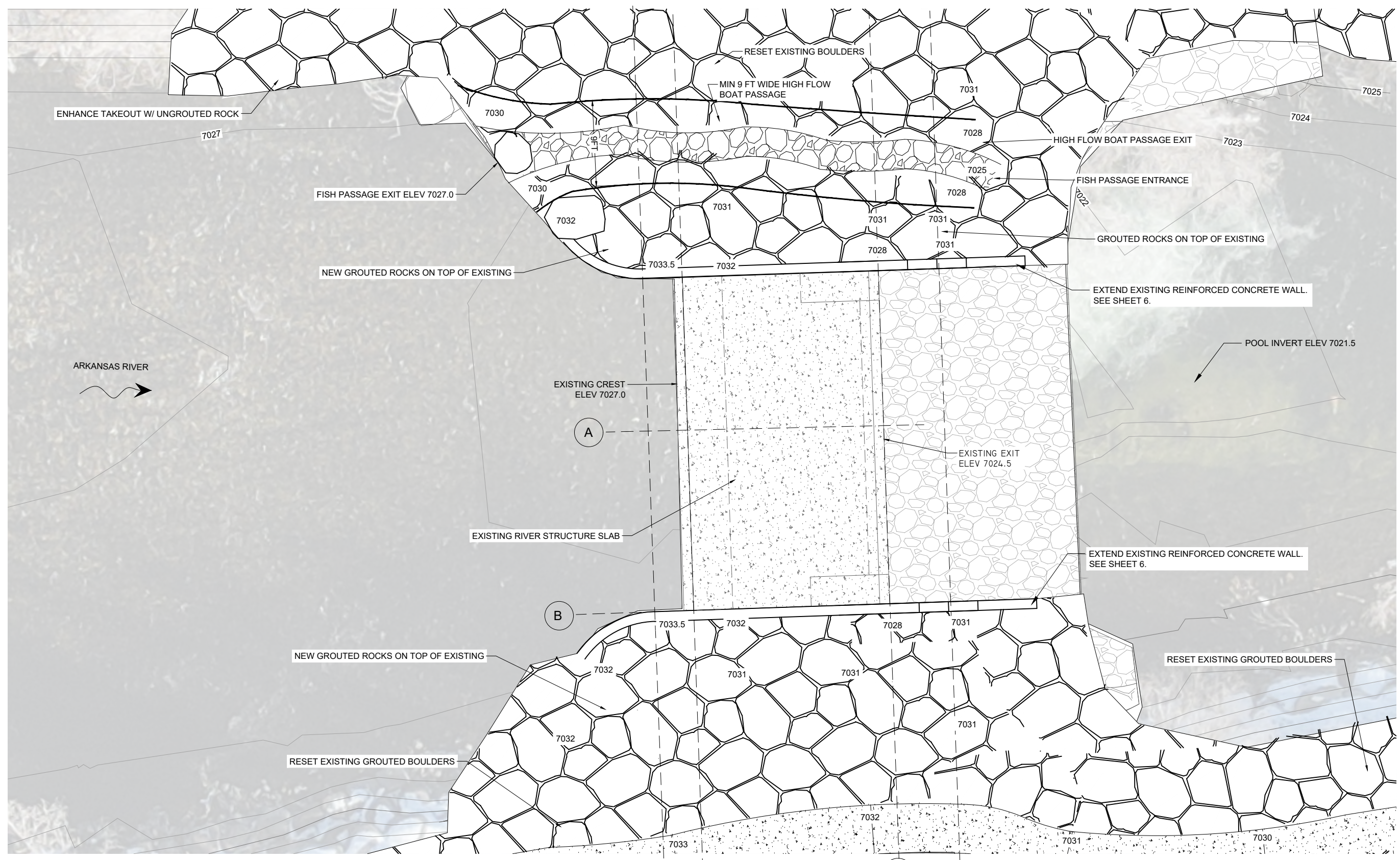
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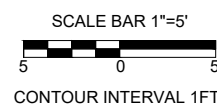
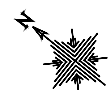
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SHEET 5 OF 12



SCOUT WAVE STRUCTURE MAINTENANCE MODIFICATIONS PLAN VIEW

NOTE:
CONCRETE WALL AND GROUTED ROCK WINGS ON BOTH SIDES OF THE DROP STRUCTURE MIRROR ONE ANOTHER WITH THE SAME ELEVATIONS AND GEOMETRY. DIMENSIONS AND GEOMETRY LABELED ON ONE SIDE ONLY FOR CLARITY IN SOME INSTANCES.



HATCH LEGEND

- GROUTED BOULDER STRUCTURES
- CONCRETE STRUCTURES
- RIPRAP
- EXISTING GROUTED BOULDER STRUCTURES
- EXISTING CONCRETE STRUCTURES
- EXISTING 18" SCOUR PROTECTION AND/OR NATIVE ARMOR MATERIALS

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STRUCTURE PROFILE

REVISIONS:

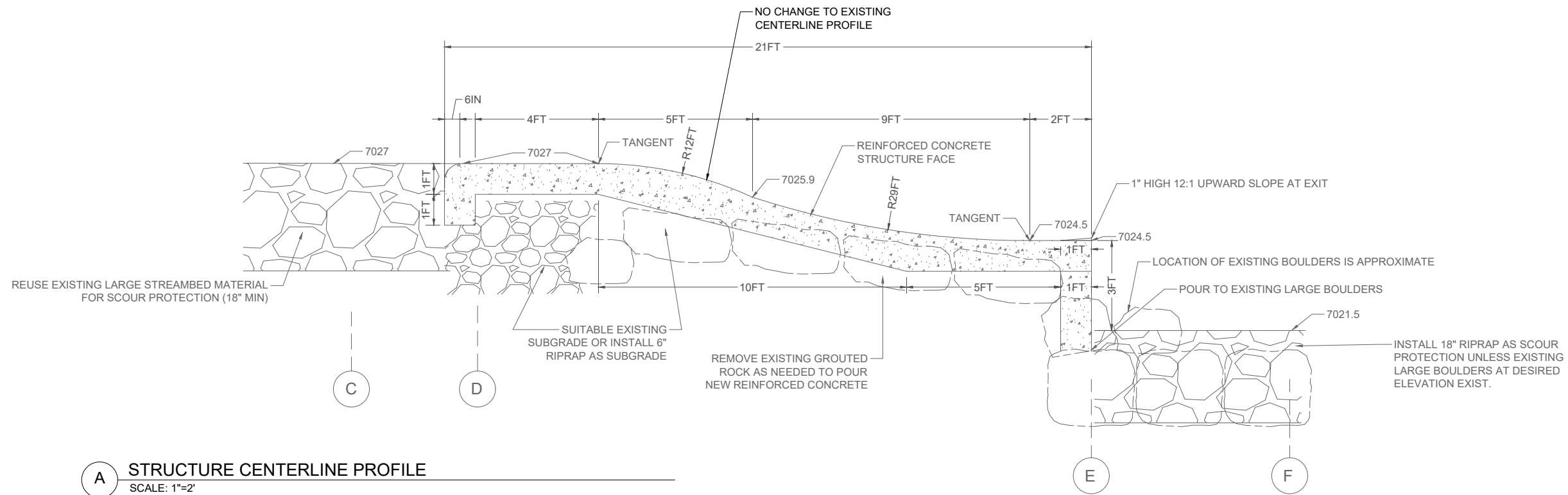
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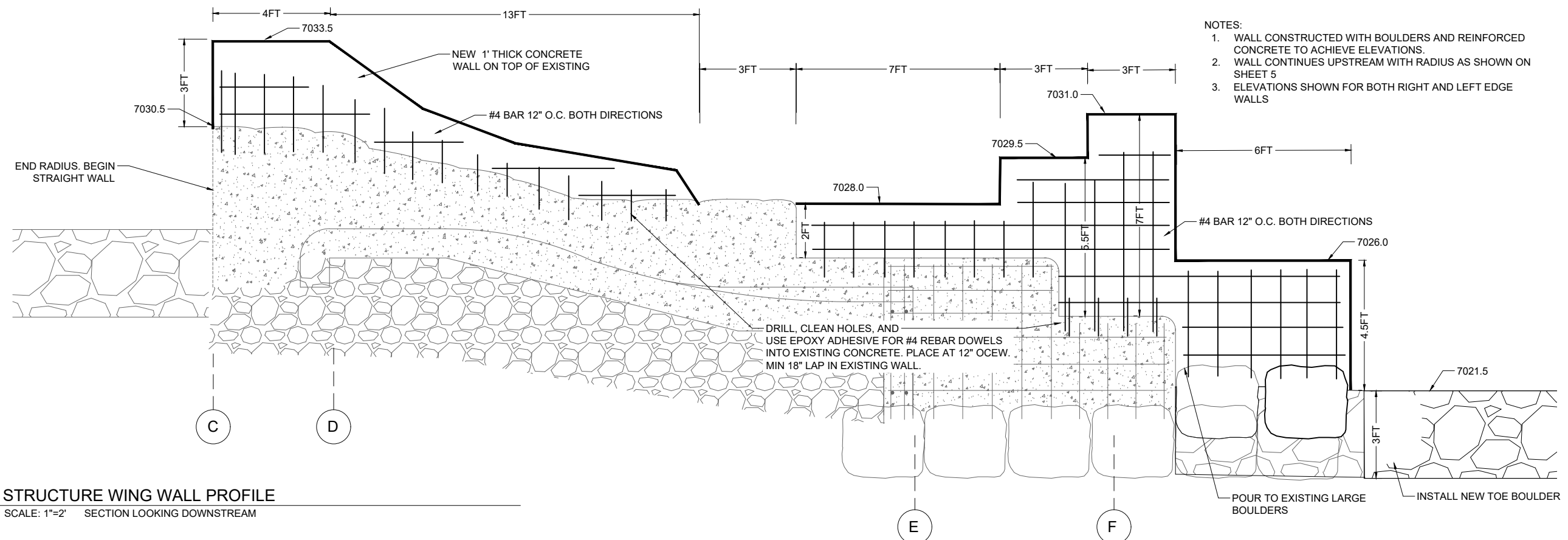
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SHEET 6 OF 12



A STRUCTURE CENTERLINE PROFILE
SCALE: 1"=2'



B STRUCTURE WING WALL PROFILE
SCALE: 1"=2' SECTION LOOKING DOWNSTREAM

- NOTES:
1. WALL CONSTRUCTED WITH BOULDERS AND REINFORCED CONCRETE TO ACHIEVE ELEVATIONS.
 2. WALL CONTINUES UPSTREAM WITH RADIUS AS SHOWN ON SHEET 5
 3. ELEVATIONS SHOWN FOR BOTH RIGHT AND LEFT EDGE WALLS

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STRUCTURE CROSS SECTIONS

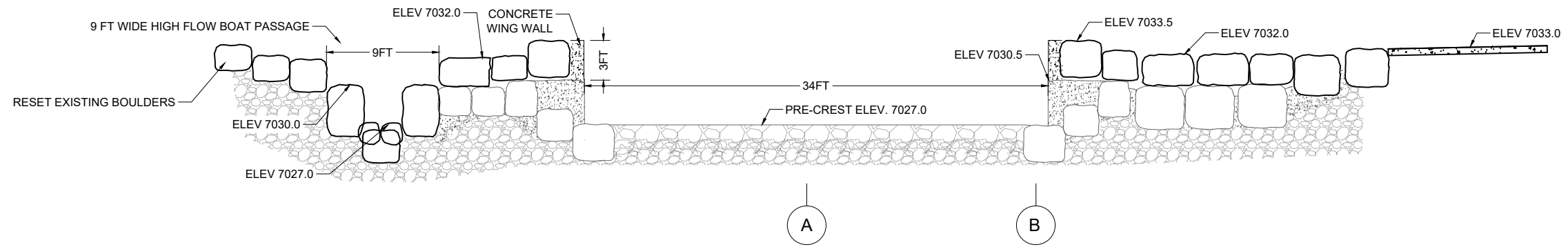
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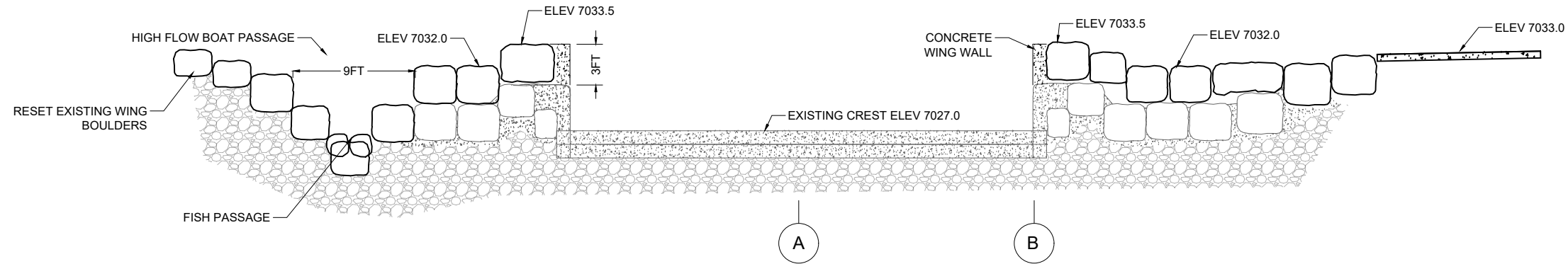
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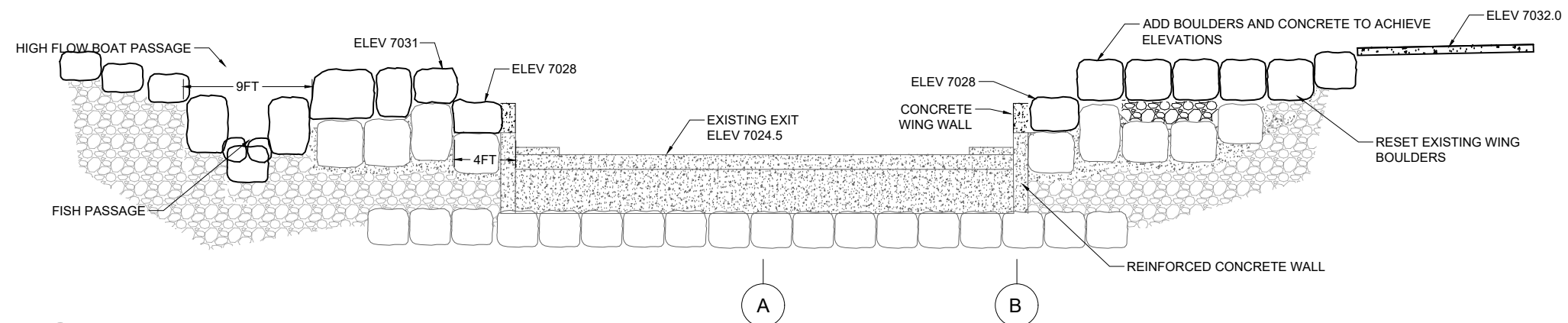
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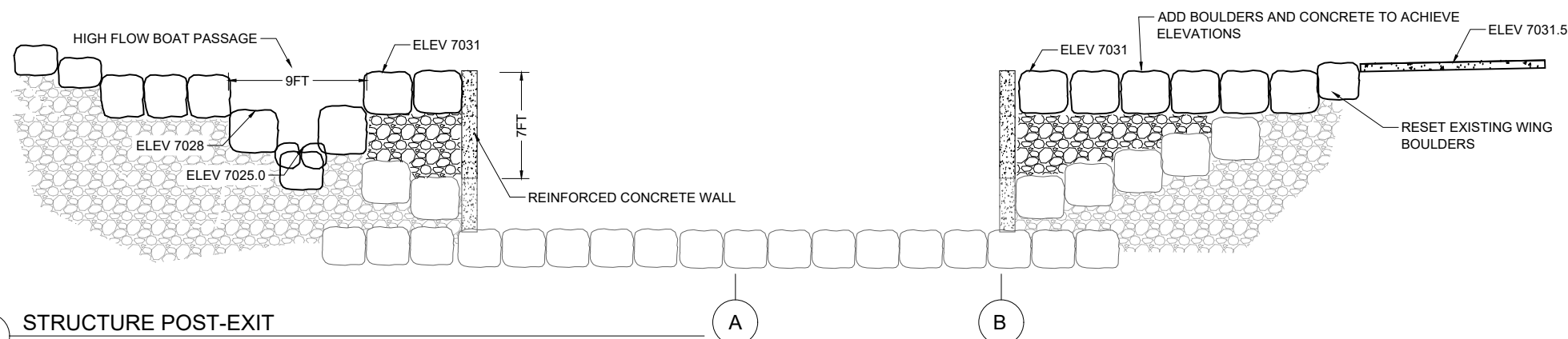
C STRUCTURE PRE-CREST
SCALE: 1"=5'



D STRUCTURE CREST
SCALE: 1"=5' SECTION LOOKING DOWNSTREAM



E STRUCTURE EXIT
SCALE: 1"=5' SECTION LOOKING DOWNSTREAM



F STRUCTURE POST-EXIT
SCALE: 1"=5' SECTION LOOKING DOWNSTREAM

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STRUCTURE PROFILE WING FISH

REVISIONS:

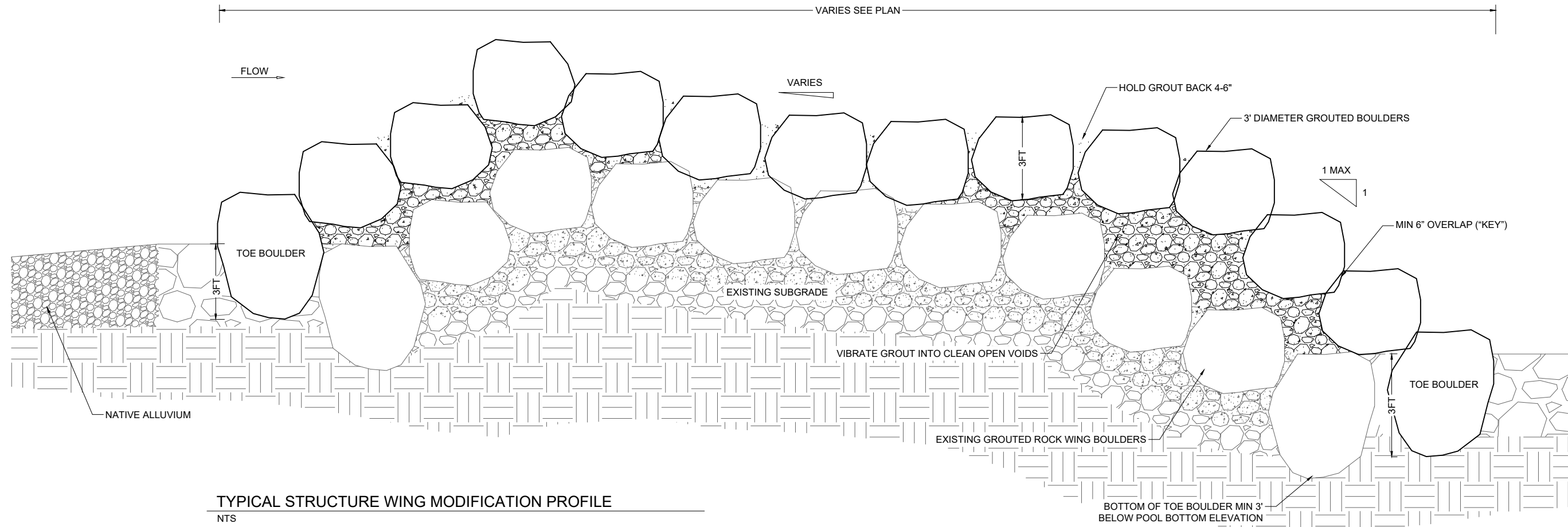
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PLOT DATE:	11/10/2023		

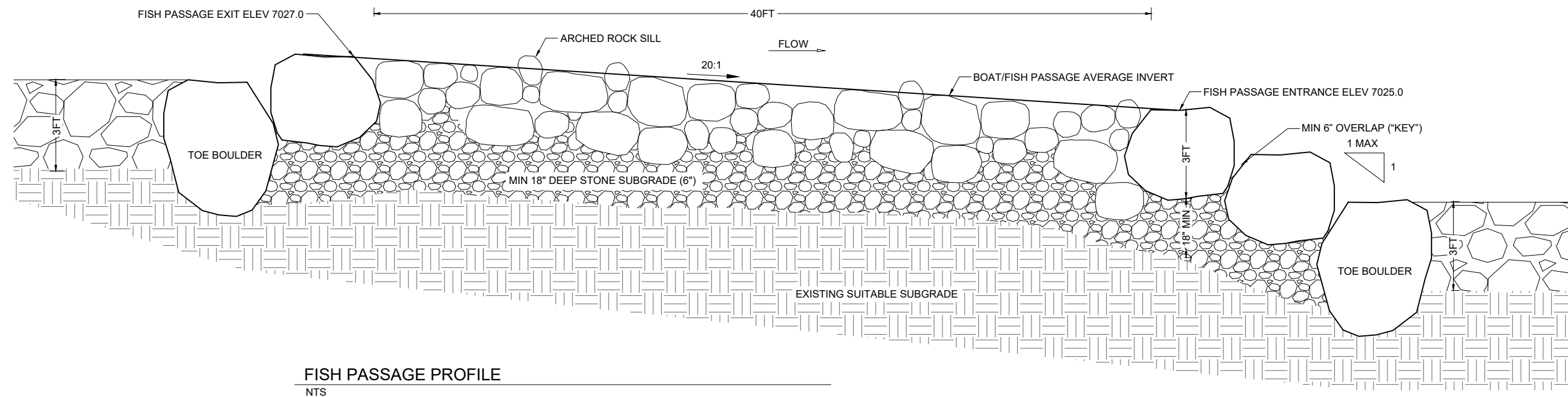
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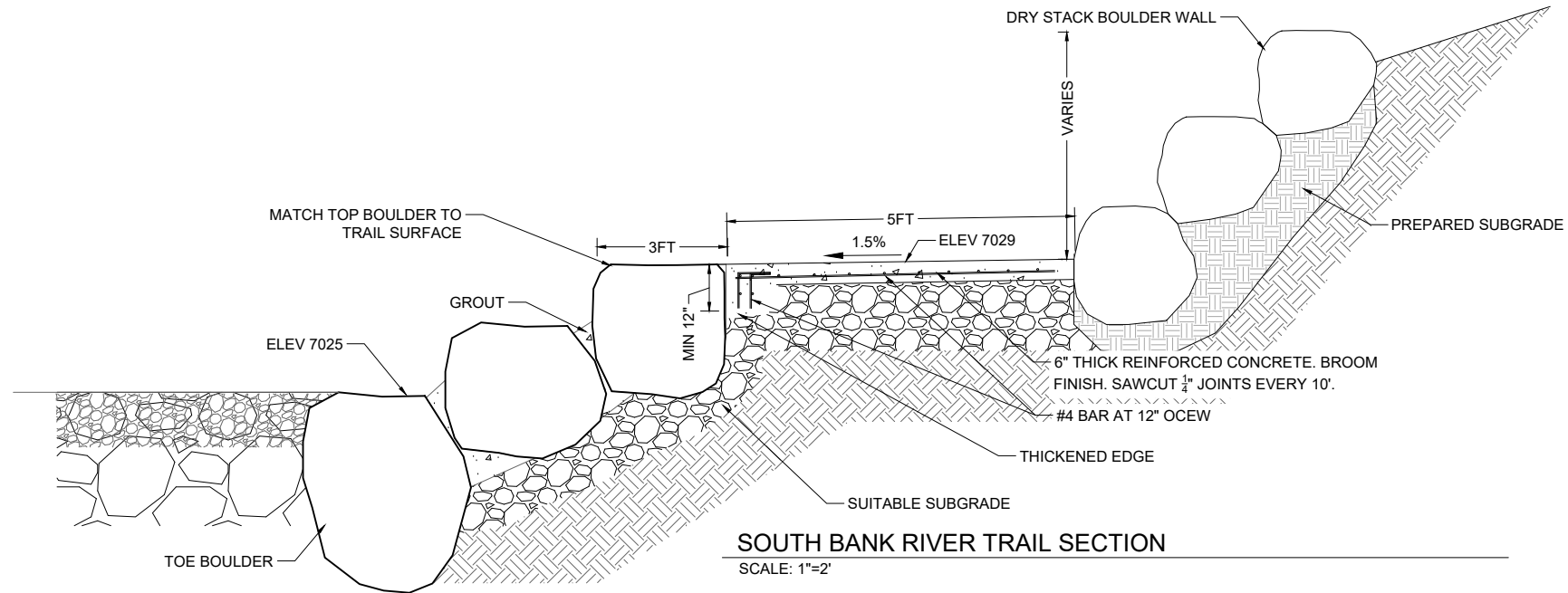
SHEET 8 OF 12



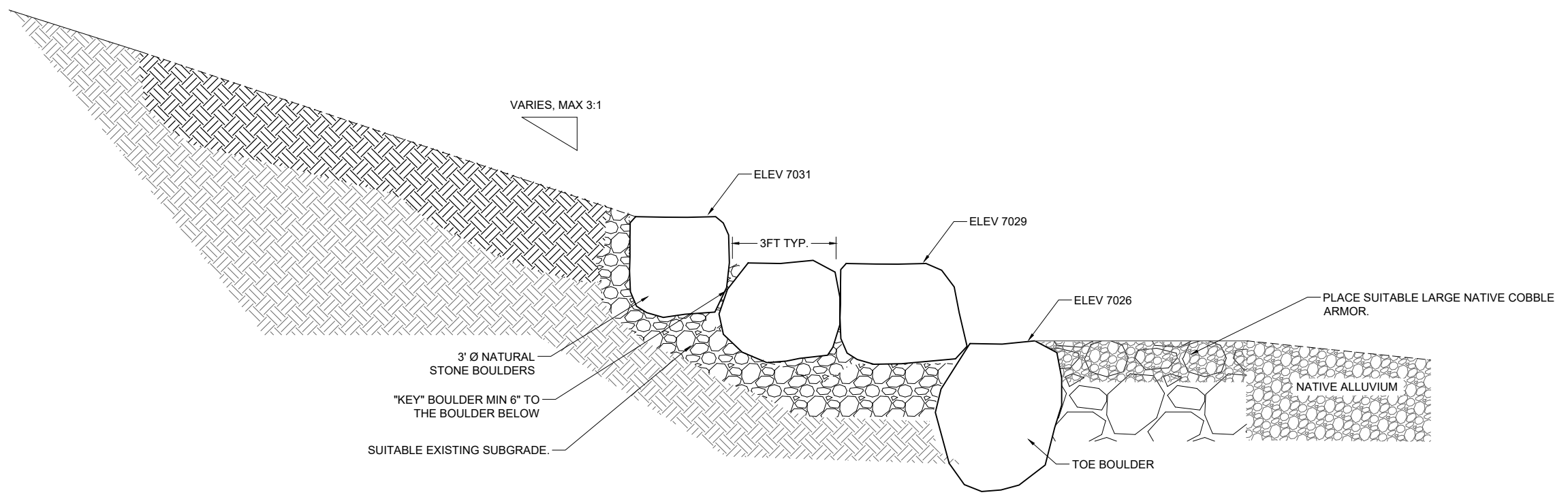
TYPICAL STRUCTURE WING MODIFICATION PROFILE
NTS



FISH PASSAGE PROFILE
NTS



SOUTH BANK RIVER TRAIL SECTION
SCALE: 1"=2'



STONE BANK SECTION
SCALE: 1"=2'

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ARKANSAS RIVER SALIDA, COLORADO
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BANK TRAIL DETAILS

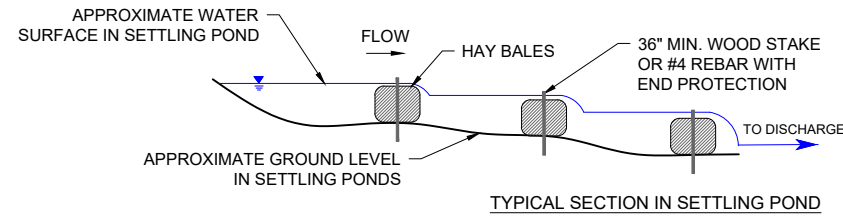
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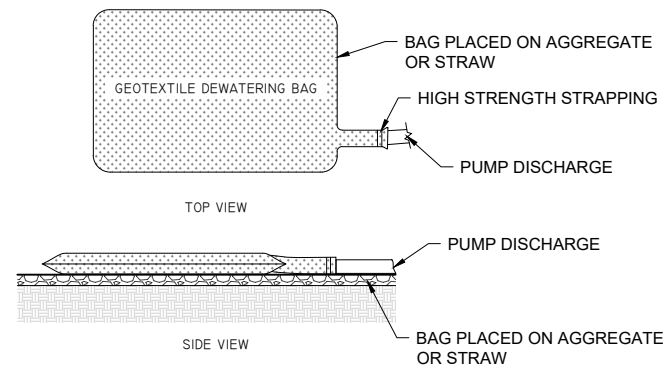
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9
SHEET 9 OF 12

CARE OF PUMPED WATER OPTIONS



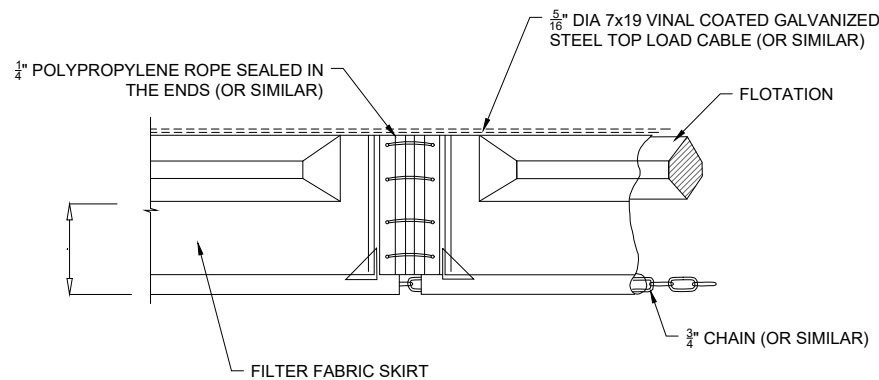
NOTE: SCHEMATIC LAYOUT TO DESCRIBE FUNCTIONALITY ONLY. ACTUAL LAYOUT TO BE DETERMINED BY CONTRACTOR, PER PERMIT CONDITIONS.

SETTLING POND OPTION



NOTE: SCHEMATIC LAYOUT TO DESCRIBE FUNCTIONALITY ONLY. ACTUAL LAYOUT AND BAG SIZING TO BE DETERMINED BY CONTRACTOR, PER PERMIT CONDITIONS.

GEOTEXTILE BAG OPTION

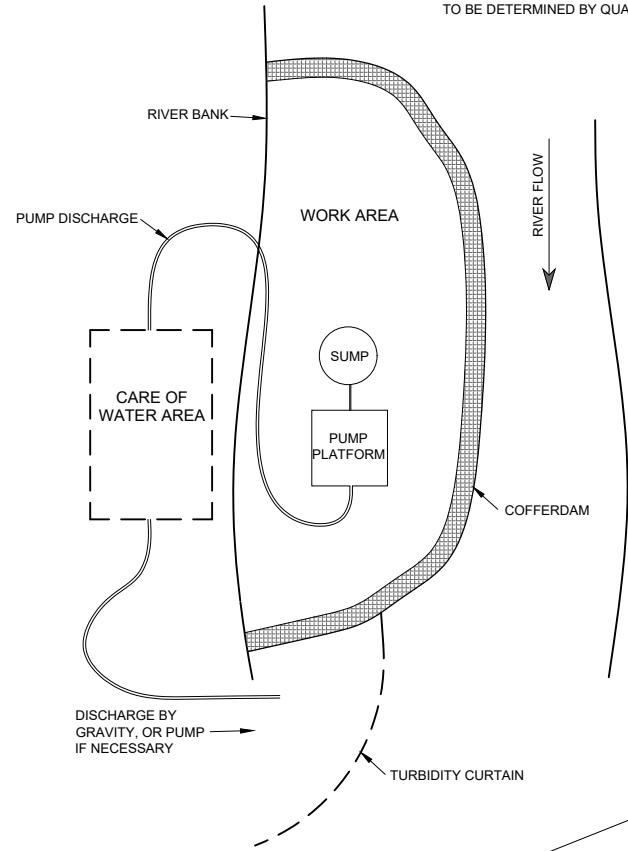


NOTE: SCHEMATIC DETAIL TO DESCRIBE FUNCTIONALITY ONLY. ACTUAL DETAIL AND SIZING TO BE DETERMINED BY CONTRACTOR, PER PERMIT CONDITIONS.

TURBIDITY CURTAIN OPTION

TYPICAL LAYOUT DEWATERING AREA

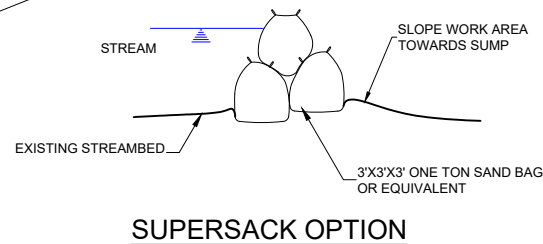
NOTE: SCHEMATIC LAYOUT TO DESCRIBE FUNCTIONALITY ONLY. ACTUAL LAYOUT TO BE DETERMINED BY QUALIFIED CONTRACTOR, PER PERMIT CONDITIONS.



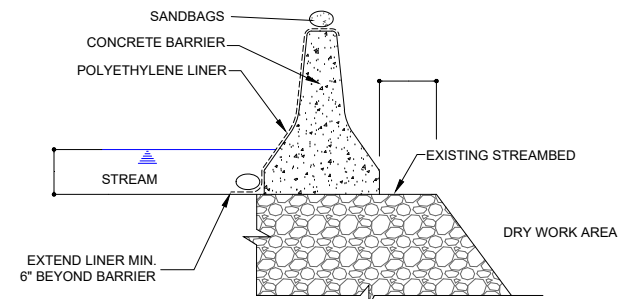
DEWATERING NOTES:

1. SUMPS CAN BE MADE FROM DIGGING A HOLE AND INSERTING A PERFORATED PIPE AND BACKFILLING WITH CLEAN DRAIN ROCK OR OTHER APPROVED METHOD.
2. CARE OF PUMPED WATER SHALL BE BASED UPON SITE SPECIFICS AND QUALITY OF WATER. METHODS OF TURBIDITY CONTROL SHALL BE DETERMINED BY THE CONTRACTOR. SCHEMATIC ALTERNATIVES ARE IDENTIFIED BELOW. THE CONTRACTOR SHALL REDUCE THE TURBIDITY OF DISCHARGED WATER TO THE MAXIMUM EXTENT PRACTICABLE.
3. UPON COMPLETION, GEOTEXTILE BAGS, VISQUENE, SETTLED FINES, AND ANY OTHER CARE OF WATER MATERIALS SHALL BE REMOVED AND DISPOSED OF OFFSITE BY THE CONTRACTOR.
4. PUMP STATION SHALL BE ELEVATED. FUEL CONTAINMENT BMP'S SHALL BE ONSITE AT ALL TIMES.
5. PUMP REMAINING WATER IN CONSTRUCTION AREA AS NECESSARY TO MANAGE GROUNDWATER AND LEAKAGE. ALL DISCHARGED WATER MUST BE ROUTED TO THE CARE OF WATER AREA AS NECESSARY PER PERMIT CONDITIONS.
6. CONTRACTOR IS RESPONSIBLE FOR OWN SECURITY DURING CONSTRUCTION. ANY VANDALISM WILL BE CORRECTED AT CONTRACTOR'S OWN EXPENSE.
7. THE CONTRACTOR SHALL BE RESPONSIBLE FOR CARE OF ALL WATER DURING CONSTRUCTION INCLUDING MAINTENANCE OF ALL DITCHES, COFFERDAMS, LEVEES, DIVERSIONS AND PUMPS TO KEEP THE WORK AREA FREE FROM WATER.
8. DEWATERING PLAN DETAILS SHOWN HERE ARE ILLUSTRATIVE. PRIOR TO COMMENCING ANY WORK, THE CONTRACTOR IS TO COMPLETE AND SUBMIT A DEWATERING PLAN APPLICABLE TO THIS PROJECT.
9. CONTRACTOR IS RESPONSIBLE FOR LAYOUT AND DESIGN OF COFFERDAM. CONTRACTOR SHALL SUBMIT A PLAN FOR COFFERDAM INSTALLATION, RIVER DIVERSION AND EROSION CONTROL INCLUDING LOCATION, SIZE, HEIGHT, SEQUENCING AND TIMING OF EACH COMPONENT. COFFERDAMS OR FILLS FOR ACCESS AND PIPE EXTENSIONS AND MATTING AT END OF BYPASS PIPE EXTENSIONS AND CARE OF PUMPED WATER SHALL BE PLACED AND REMOVED IN A MANNER THAT PREVENTS EROSION OR RELEASE OF SEDIMENT.
10. ALL COFFER DAM PLANS AND PIPE EXTENSIONS AND MATTING AT END OF BYPASS PIPE EXTENSIONS AND CARE OF PUMPED WATER SHALL BE PROVIDED DIRECTLY TO REP AND WILL BE REVIEWED BY THE ENGINEER AND APPROPRIATE PERMITTING AGENCIES.
11. ALTERNATE COFFER DAM METHODS PRESENTED TO DESCRIBE FUNCTIONALITY ONLY. ACTUAL METHOD TO BE DETERMINED BY QUALIFIED CONTRACTOR, PER PERMIT CONDITIONS, IN ORDER TO ACHIEVE DRY WORK AREA.
12. CONTRACTOR IS SOLELY RESPONSIBLE FOR ALL DEWATERING AND COFFERDAMS DURING CONSTRUCTION. REPAIRS AND REPLACEMENTS DUE TO NATURAL CAUSES ARE AT THE SOLE EXPENSE OF THE CONTRACTOR.
13. AFTER COMPLETION OF CONSTRUCTION, COFFERDAMS AND PIPE EXTENSIONS AND MATTING AT END OF BYPASS PIPE EXTENSIONS MUST BE COMPLETELY REMOVED AND RIVER BANK AREAS STABILIZED AND RESTORED.

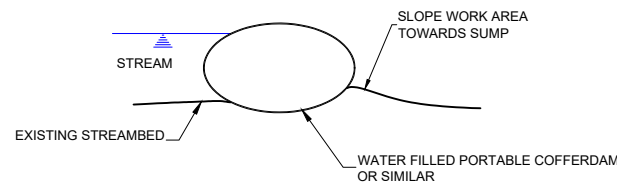
COFFERDAM OPTIONS



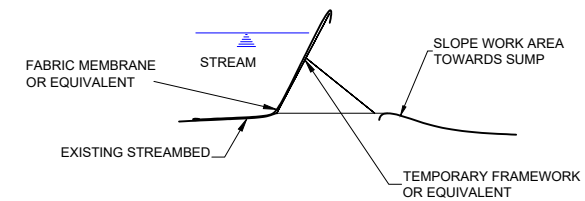
SUPERSACK OPTION



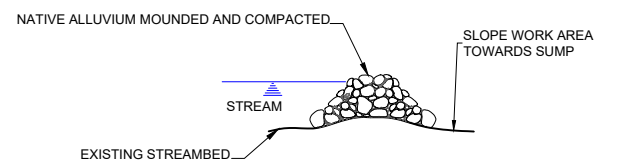
CONCRETE BARRIER OPTION



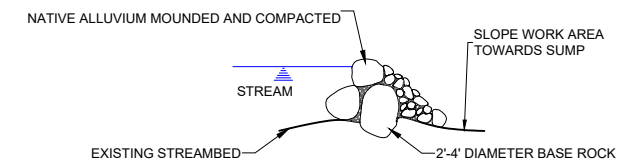
WATER FILLED OPTION



"PORTADAM" OPTION



TYPICAL COFFER DAM CROSS SECTION



TYPICAL COFFER DAM CROSS SECTION

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ARKANSAS RIVER WW PARK MAINTENANCE
ARKANSAS RIVER
SALIDA, COLORADO

90% DESIGN SET

DEWATERING TYPICAL

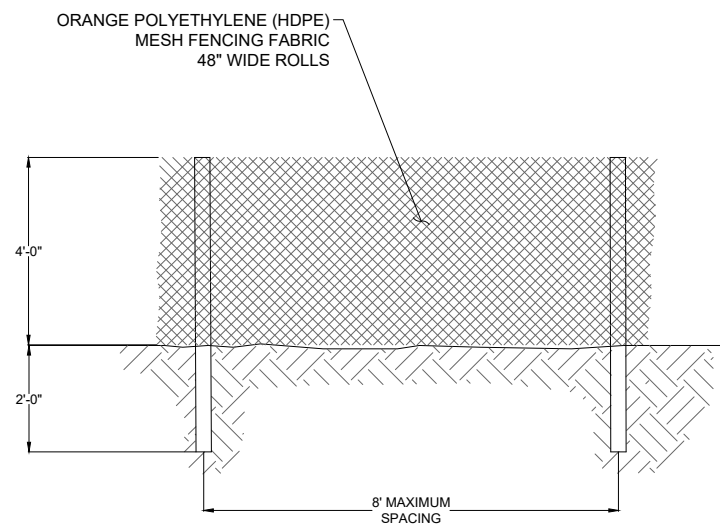
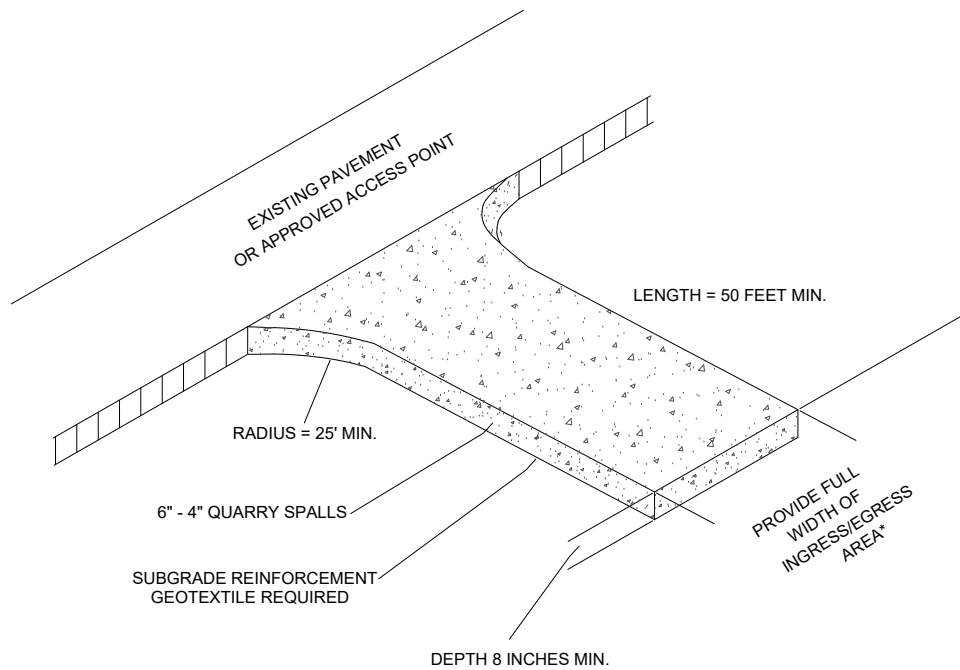
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DRAWING NO.

10



- NOTES:**
- 2"x 2"x 6" STEEL FENCE POSTS. INSTALL AROUND TREE DRIP LINE WHERE APPLICABLE.
 - FASTEN FABRIC TO FENCE PER MANUFACTURERS RECOMMENDATION.
 - INSURE ALL POST ARE SET FIRM AND STABLE INTO GROUND MIN. 2'-0" DEPTH.

BMP'S PLUS TEMPORARY SEDIMENT AND EROSION CONTROLS SHALL BE MAINTAINED TO BE FUNCTIONAL UNTIL THE SITE HAS REACHED FINAL STABILIZATION

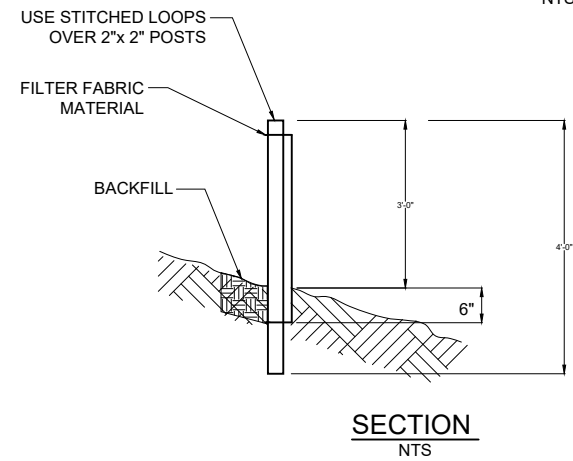
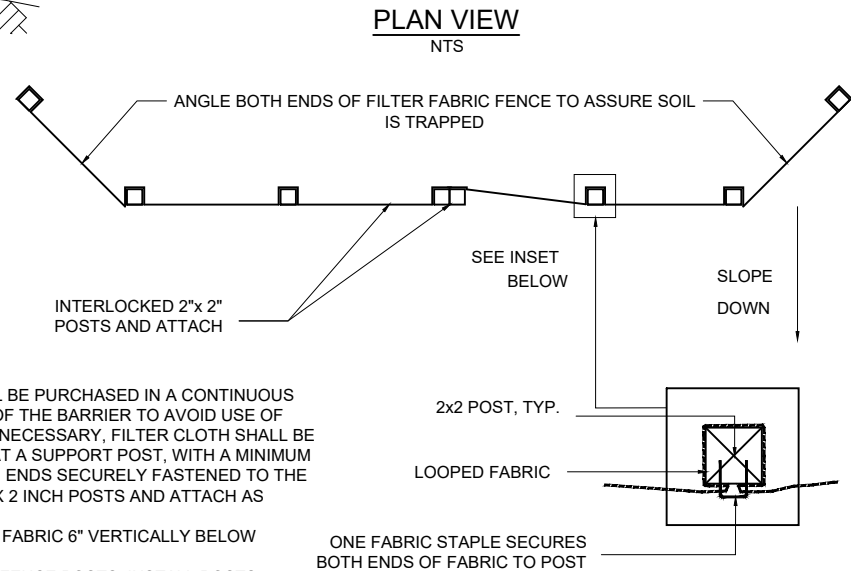
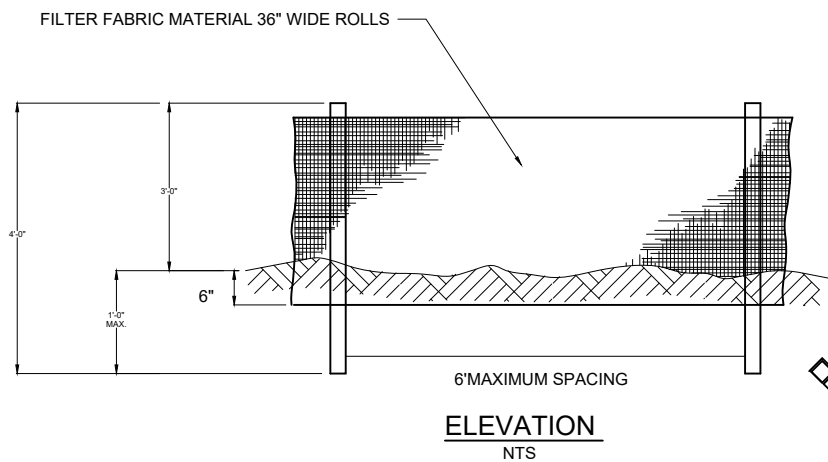
ALL APPROPRIATE SEDIMENT AND POLLUTION CONTROL MEASURES, AND BEST MANAGEMENT PRACTICES (BMP'S) SHALL BE IN PLACE TO MINIMIZE SEDIMENTATION AND RIVERBED IMPACTS PRIOR TO INITIATING IN-RIVER / RIVERBANK WORK

CONTRACTOR SHALL BE WHOLLY RESPONSIBLE FOR THE DESIGN, IMPLEMENTATION, AND MAINTENANCE OF SEDIMENT AND EROSION CONTROLS IN CONFORMANCE WITH CONSTRUCTION STANDARDS AND THE REQUIREMENTS OF REGULATORY AGENCIES THROUGHOUT THE CONSTRUCTION PERIOD. THE ENGINEER WILL NOT BE ON-SITE TO APPROVE, REVIEW, OR MAINTAIN THE CONTROLS

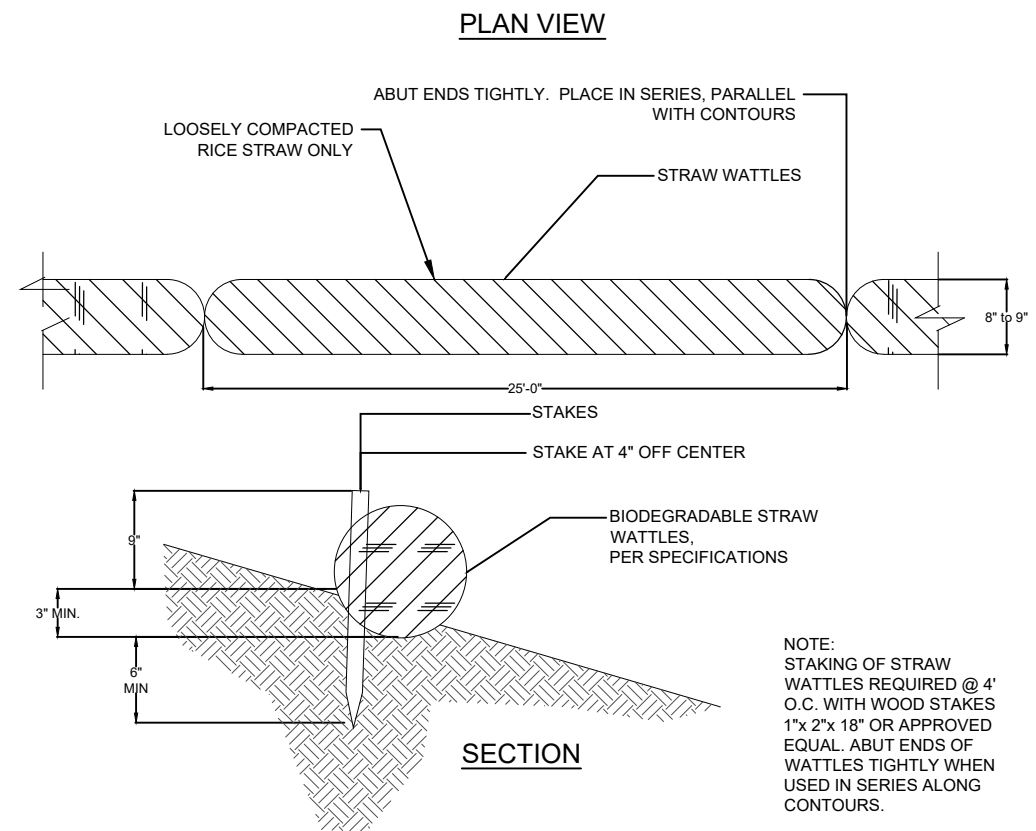
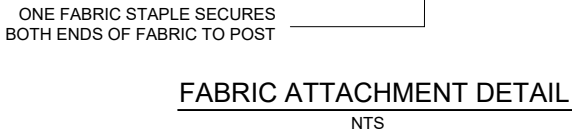
CONSTRUCTION ENTRANCES SHALL BE INSTALLED AS NECESSARY TO PROVIDE ACCESS TO CONSTRUCTION AREAS FROM ALL EXISTING ROADWAYS AND PATHS TO MINIMIZE GROUND DISTURBANCE AND SEDIMENT TRACKING FROM VEHICLE TIRES. ADJACENT ROADWAYS AND PATHS SHALL BE VISUALLY INSPECTED DAILY TO ENSURE THAT SEDIMENT IS NOT BEING CARRIED OFF-SITE. IF SEDIMENT IS BEING CARRIED OFF-SITE, THE ADJACENT ROADWAYS AND PATHS SHALL BE SWEEPED CLEAN DAILY. THE CONTRACTOR SHALL IMPLEMENT THE NECESSARY SITE EROSION CONTROL MEASURES FOR INHIBITING DUST, WIND, AND AIR SEDIMENT MOVEMENT OFFSITE DURING ALL PHASES OR STAGES OF CONSTRUCTION

INLET PROTECTION MUST BE INCLUDED AT ALL STORM, SEWER, AND CULVERT LINKS. APPROPRIATE BMP'S INCLUDE ROCK SOCKS, SEDIMENT CONTROL LOGS, OR SIMILAR

CONTRACTOR SHALL NOT STORE EQUIPMENT BELOW THE ORDINARY HIGH-WATER LINE, AND TAKES FULL RESPONSIBILITY FOR ANY MATERIALS VANDALIZED, DAMAGED, BROKEN, OR LOST AS A RESULT OF RIVER EVENTS ALL FUELING OPERATIONS, LUBRICATING, HYDRAULIC TOPPING OFF, FUEL TANK PURGING, AND EQUIPMENT MAINTENANCE/REPAIRS SHALL BE PERFORMED AT AN UPLAND SITE OUTSIDE OF THE BANKS OF ANY SITE WATERWAYS AT A LOCATION TO BE DETERMINED BY THE ENGINEER OR OWNER. THESE ACTIVITIES SHALL TAKE PLACE ON AN APPROVED PAD WITH SPILL CONTROL/ COLLECTION DEVICES IN PLACE



- NOTES:**
- THE FILTER FABRIC SHALL BE PURCHASED IN A CONTINUOUS ROLL CUT TO THE LENGTH OF THE BARRIER TO AVOID USE OF JOINTS. WHEN JOINTS ARE NECESSARY, FILTER CLOTH SHALL BE SPLICED TOGETHER ONLY AT A SUPPORT POST, WITH A MINIMUM 6-INCH OVERLAP, AND BOTH ENDS SECURELY FASTENED TO THE POST, OR OVERLAP 2 INCH X 2 INCH POSTS AND ATTACH AS SHOWN.
 - BURY BOTTOM OF FILTER FABRIC 6" VERTICALLY BELOW FINISHED GRADE.
 - 2"x 2" FIR, PINE OR STEEL FENCE POSTS. INSTALL POSTS UPHILL OF FILTER FABRIC.
 - STITCHED LOOPS TO BE INSTALLED ON THE UPHILL SIDE OF FABRIC.
 - COMPACT ALL AREAS OF FILTER FABRIC TRENCH.
 - FILTER FABRIC FENCES SHALL BE INSPECTED BY CONTRACTOR IMMEDIATELY AFTER EACH RAINFALL AND AT LEAST DAILY DURING PROLONGED RAINFALL. ANY REQUIRED REPAIRS SHALL BE MADE IMMEDIATELY.



RECREATION ENGINEERING AND PLANNING
485 ARAPAHOE AVE.
BOULDER CO 80302
WWW.BOATERPARKS.COM

DRAFT

PROJECT OWNER:
CITY OF SALIDA
448 E FIRST STREET
SUITE 112
SALIDA, CO 81201

ARKANSAS RIVER WW PARK MAINTENANCE

ARKANSAS RIVER

SALIDA, COLORADO

90% DESIGN SET

TYPICAL BMP'S

REVISIONS:

NO.	DATE

DESIGNED: SL DRAFTED: RG
CHECKED: ML
PLOT DATE: 11/10/2023

DRAWING NO.

11

SHEET 11 OF 12