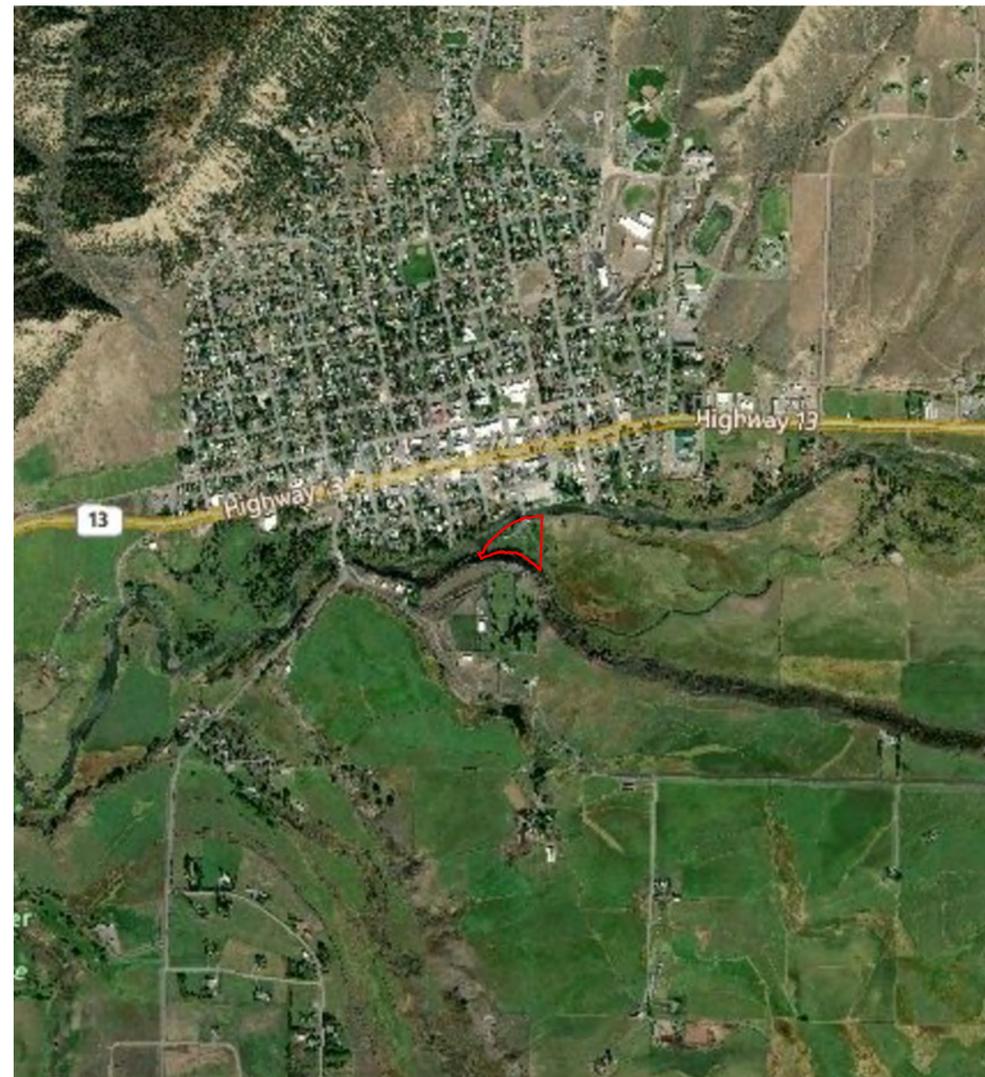
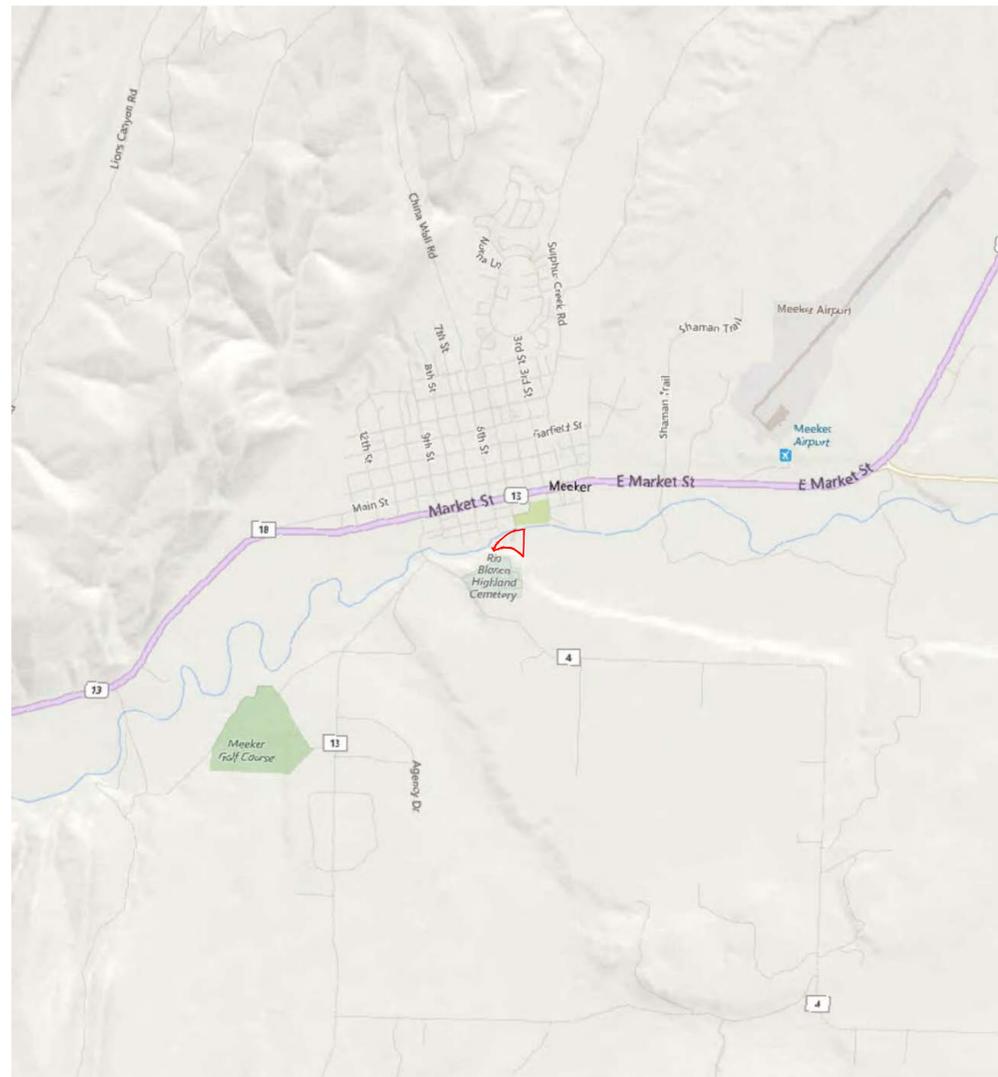


CIRCLE PARK ENHANCEMENT AND SHORELINE STABILIZATION PLAN

20 5TH STREET MEEKER, COLORADO

TOWN OF MEEKER, COLORADO
DECEMBER 11, 2020



1 LOCUS MAP/ USGS
ANSI D (22"x34") SCALE: 1"=2000'
TABLOID (11"x17") SCALE: 1"=4000'
LOCUS MAP SOURCE: MASSGIS DATA-USGS TOPOGRAPHIC QUADRANGLE IMAGES

2 ORTHO-PHOTOGRAPH
ANSI D (22"x34") SCALE: 1"=1000'
TABLOID (11"x17") SCALE: 1"=2000'
BASE MAP SOURCE: MICROSOFT DIGITALGLOBE ORTHO IMAGERY (2018)

SHEET INDEX

- 1.0: COVER
- 2.0: EXISTING CONDITIONS SURVEY AND PHASE 1 OVERLAY PLAN
- 3.0: DEMOLITION AND EROSION CONTROLS
- 4.0 GRADING PLAN
- 4.1 ACCESSIBLE RAMP GRADING
- 5.0: LANDSCAPE PLAN
- 5.1: PLANTING BED DESIGN PLAN
- 6.0: LIGHTING PLAN
- 7.0: IRRIGATION PLAN
- 8.0: DETAILS: EROSION CONTROL DETAILS
- 8.1: DETAILS: PATH AND SURFACE DETAILS AND NOTES
- 8.2: DETAILS: RIVER ACCESS AND SLOPE STABILIZATION DETAILS AND NOTES
- 8.3: DETAILS: LANDSCAPE DETAILS AND NOTES
- 8.4: DETAILS: LANDSCAPE AND BASIN DETAILS
- 8.5 DETAILS: LIGHTING DETAILS AND NOTES
- 8.6 DETAILS: IRRIGATION DETAILS AND NOTES
- 9.0: PHOTO EXAMPLES

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Prepared for:

RECREATION &
PARK DISTRICT
Meeker, Colorado
101 UTE ROAD
MEEKER, CO 81641

LEGEND

Stamp:

Project Title:
**WHITE RIVER
RIVERFRONT
ENHANCEMENTS**
20 5TH STREET
MEEKER, CO

Sheet Title:
COVER

Date:	12/11/2020
Scale:	As Shown
Drawn by:	TS
Checked by:	NG
File #	48063.00

REVISIONS		
Date:	By:	Note:

Sheet No:
1.0



A Portion of Outlot 9
14.06 Acres ±
 (Calculated to North Edge of White River)

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- LEGEND
- ⊕ FOUND MONUMENT AS DESCRIBED
 - ⊙ SET REBAR AND ALUM CAP PLS 36574
 - ⊠ BBQ GRILL
 - ⊙ LIGHT POLE
 - ⊙ UTILITY POLE
 - ⊙ WATER VALVE
 - ⊙ IRRIGATION CONT. VALVE
 - ⊙ SIGN (SINGLE POLE)
 - OVERHEAD ELECTRIC LINE
 - FENCELINE
 - UNDERGROUND ELECTRIC LINE
 - CONCRETE
 - STONE
 - RIVER / CREEK / DITCH
 - ASPHALT PAVING
 - PHASE 1 DESIGN AREA (BY OTHERS)

ANSI D (22"x34") SCALE: 1"=30'
 TABLOID (11"x17") SCALE: 1"=60'


Stamp:

Project Title:
WHITE RIVER RIVERFRONT ENHANCEMENTS
 20 5TH STREET
 MEEKER, CO

Sheet Title:
EXISTING CONDITIONS SURVEY AND PHASE 1 OVERLAY PLAN

Date:	12/11/2020
Scale:	As Shown
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Date:	By:	Note:

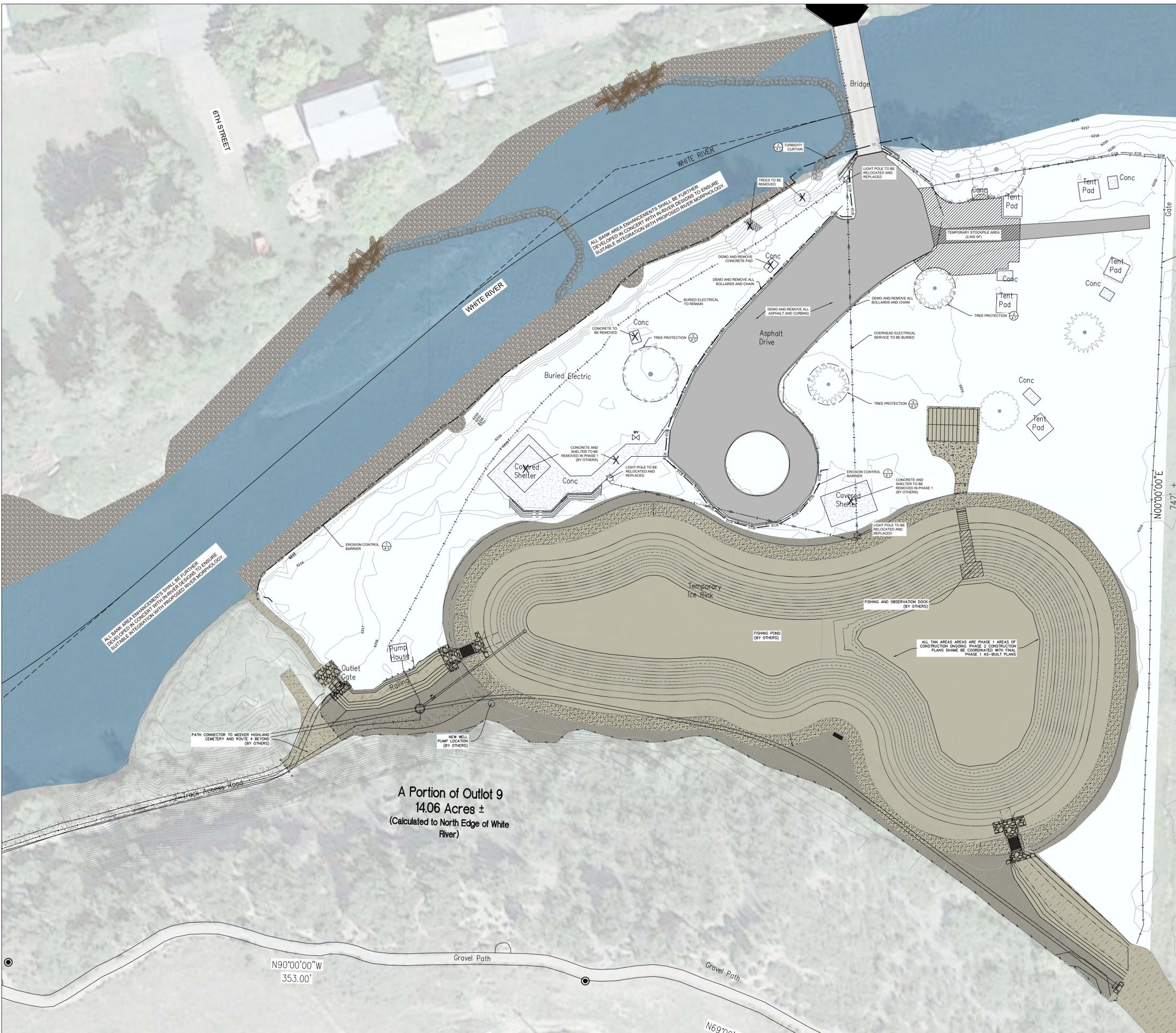
Sheet No:
2.0

NOTES
 EXISTING CONDITIONS SURVEY DEVELOPED BY SGM PLAN DATED FEBRUARY 13, 2018.



Know what's below
Call before you dig.

PLANS FOR BID PURPOSED ONLY. NOT FOR CONSTRUCTION



- DEMOLITION NOTES**
1. PLAN INTENDED AS A GUIDELINE FOR DEMOLITION. LANDSCAPE ARCHITECT MAKES NO WARRANTY AS TO THE COMPLETENESS OR EXTENT OF ITEMS TO BE REMOVED, RELOCATED, OR PROTECTED IN PLACE. CONTRACTOR RESPONSIBLE FOR LOCATING ALL UTILITIES PRIOR TO CONSTRUCTION.
 2. CONTRACTOR SHALL VERIFY PHASE 1 AS-BUILT CONDITIONS AND COORDINATE DEMOLITION PLAN ACCORDINGLY.
 3. COORDINATE WITH OWNER ON ALL UNIDENTIFIED EXISTING ITEMS TO DETERMINE IF THEY SHOULD BE REMOVED, RELOCATED, OR PROTECTED IN PLACE.
 4. CONTRACTOR RESPONSIBLE FOR LOCATING ALL UTILITIES PRIOR TO CONSTRUCTION.
 5. CONTRACTOR SHALL CLEAR AND GRUB AREAS DISTURBED BY GRADING, DEBRIS, VEGETATION, STUMPS, ROOTS, AND OTHER MATERIALS NOT SUITABLE FOR BACKFILL SHALL BE REMOVED FROM THE SITE AND DISPOSED OF BY THE CONTRACTOR.
 6. CLEAR AND GRUB AREAS AS NECESSARY FOR IMPROVEMENT WORK INCLUDING BUT NOT LIMITED TO PLAYWORK AND LANDSCAPE AREAS.
 7. CONTRACTOR SHALL REMOVE ALL DEBRIS FROM THE DEMOLITION AREAS ON A DAILY BASIS.
 8. PROVIDE TREE PROTECTION FENCE AROUND ALL EXISTING TREES TO REMAIN WITHIN THE AREA OF WORK, PER SPECIFICATIONS. REFER TO DETAIL 3 ON SHEET 41 FOR TREE PROTECTION DETAILS.
 9. HAND DIG WITHIN DRILLPIE OF EXISTING TREES. SEE DETAIL 3 ON SHEET 41.
 10. STOCKPILE ALL BOLLERS ENCOUNTERED ON-SITE DURING DEMOLITION FOR POTENTIAL REUSE.
 11. CONTRACTOR TO PLAN AND MAINTAIN IRRIGATION LINES, PIPES, AND WIRES DURING CONSTRUCTION.
- EROSION CONTROL PLAN AND CONSTRUCTION SEQUENCING**
- EROSION AND SEDIMENT CONTROL METHODS FOR THE PROJECT INCLUDE STRUCTURAL AND STABILIZATION PRACTICES. STRUCTURAL PRACTICES INVOLVE THE CONSTRUCTION OF DEVICES TO DIVERT AND LIMIT RUNOFF. STABILIZATION PRACTICES WILL BE IMPLEMENTED TO COVER EXPOSED SOIL SO THAT DISCHARGE OF SEDIMENT IS MINIMIZED. AN ADEQUATE STOCKPILE OF EROSION CONTROL MATERIALS WILL BE MAINTAINED AT THE PROJECT SITE IN THE EVENT OF AN EMERGENCY OR ROUTINE REPAIR.
- TO FURTHER MINIMIZE SEDIMENT LOSS ON THE SITE, A GENERAL CONSTRUCTION SEQUENCE PLAN HAS BEEN DEVELOPED. THE FOLLOWING ARE PROCEDURES TO BE FOLLOWED:
12. ALL VEHICLES AND EQUIPMENT BROUGHT TO THE PROJECT SITE SHALL BE CLEAN AND FREE OF INVASIVE PLANT MATERIAL.
 13. AN ENVIRONMENTAL RESOURCE SPECIALIST SHALL MARK OUT RESOURCE BOUNDARIES RELATED TO WETLAND AND RIVERBANK STABILIZATION AREAS IN THE FIELD PRIOR TO CONSTRUCTION.
 14. PRIOR TO ANY SITE GRADING OR SITE WORK, THE CONTRACTOR SHALL INSTALL ALL SEDIMENT AND EROSION CONTROLS AS SHOWN ON THE RESTORATION PLAN, PLUS ANY ADDITIONAL CONTROLS REQUESTED BY THE ENVIRONMENTAL RESOURCE SPECIALIST BASED ON-SITE CONDITIONS TO PREVENT SEDIMENT FROM LEAVING THE SITE OR FURTHER ENCRoACHING INTO WETLANDS, THE PHASE 1 POND, OR THE WHITE RIVER.
 15. THE CONTRACTOR FOREMAN SHALL BE DESIGNATED AS THE ON-SITE INDIVIDUAL RESPONSIBLE FOR THE DAILY MONITORING AND MAINTENANCE OF ALL SEDIMENT AND EROSION CONTROLS. ANY BREACH OR FAILURE IN SEDIMENT CONTROLS SHALL BE IMMEDIATELY REPAIRED OR REPLACED. SEDIMENT BUILD-UP BEHIND ANY EROSION CONTROL BARRIER SHALL BE REMOVED WHENEVER SEDIMENT HAS ACCUMULATED TO 3-INCHES IN DEPTH.
 16. THE CONTRACTOR SHALL INCORPORATE PERMANENT EROSION CONTROL FEATURES, PERMANENT SLOPE STABILIZATION, AND VEGETATION INTO THE PROJECT PLANS AT THE EARLIEST PRACTICAL TIME TO MINIMIZE THE NEED FOR TEMPORARY CONTROLS.
 17. ANY AREA DISTURBED WITHIN THE LIMIT OF BANK WORK IS TO BE SEED AS NOTED IN THE LANDSCAPE PLAN UNLESS SPECIFIED OTHERWISE. THE GROUND SURFACE SHALL BE SCARIFIED PRIOR TO SEEDING. AFTER SEEDING, STRAW MULCH SHALL BE APPLIED TO THE GROUND SURFACE AT A RATE OF 2,500 LBS/ACRE. SEEDS AND/OR PLANTED SLOPES GREATER THAN 3:1 SHALL BE COVERED WITH A BIODEGRADABLE EROSION CONTROL BLANKET SPECIFIED IN THE PLANS.
 18. THE CONTRACTOR SHALL MAINTAIN TEMPORARY EROSION AND SEDIMENTATION CONTROL SYSTEMS IN GOOD CONDITION UNTIL THE SITE IS STABLE, AS VERIFIED BY THE ENVIRONMENTAL RESOURCE SPECIALIST. ONCE THE SITE IS STABLE, THE SEDIMENT AND EROSION CONTROLS MAY BE REMOVED UNDER THE DIRECTION OF THE ENVIRONMENTAL RESOURCE SPECIALIST.
 19. SHOULD ANY EROSION CONTROL BLANKET BE UTILIZED, THEY SHALL BE COMPOSED OF NON-SYNTHETIC MATERIALS (E.G., JUTE MATTING). NO EROSION CONTROL BLANKETS COMPOSED OF PLASTIC-BASED MATERIALS SHALL BE USED.

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LEGEND

- MAJOR CONTOURS
- MINOR CONTOURS
- PROPOSED CONTOURS
- FENCE
- PARK ENHANCEMENT AREA
- PHASE 1 DESIGN AREA (BY OTHERS)
- EROSION CONTROL BARRIER
- TREE PROTECTION
- TURBIDITY CURTAIN
- TREE TO BE REMOVED

ANSI D (22"x34") SCALE: 1"=30'
 TABLOID (11"x17") SCALE: 1"=60'

0 15 30 60

Project Title:
WHITE RIVER RIVERFRONT ENHANCEMENTS
 20 5TH STREET
 MEEKER, CO

Sheet Title:
DEMOLITION AND EROSION CONTROLS

OWNER: SMITH, DAVID RANCHES INC.

A Portion of Outlot 9
 14.06 Acres ±
 (Calculated to North Edge of White River)

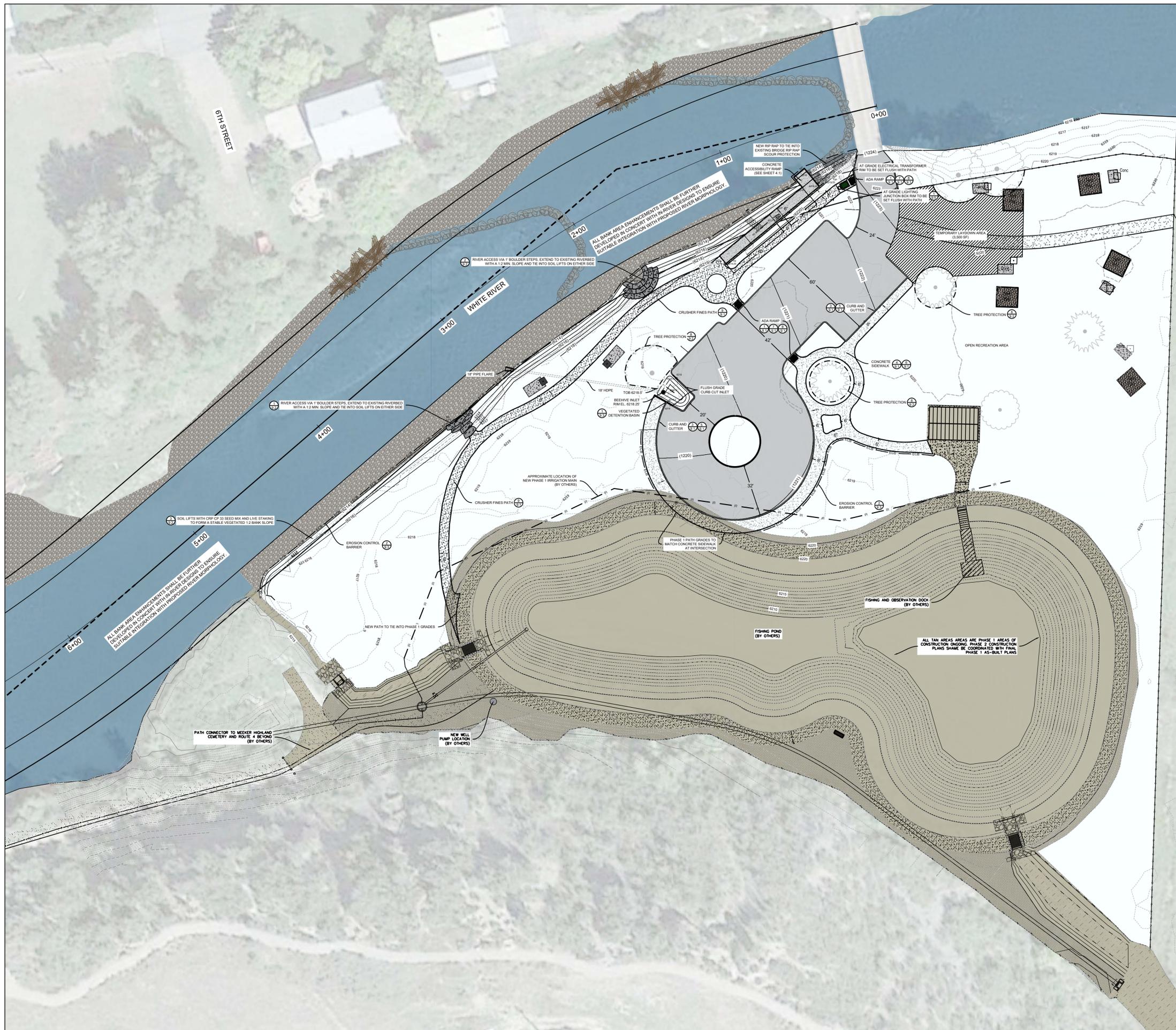
Date:	12/11/2020
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Drawn by:	TS
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File #	48063.00

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Date:	By:	Note:

Sheet No:
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EROSION CONTROL PLAN AND CONSTRUCTION SEQUENCING

EROSION AND SEDIMENT CONTROL METHODS FOR THE PROJECT INCLUDE STRUCTURAL AND STABILIZATION PRACTICES. STRUCTURAL PRACTICES INVOLVE THE CONSTRUCTION OF DEVICES TO DIVERT AND LIMIT RUNOFF. STABILIZATION PRACTICES WILL BE IMPLEMENTED TO COVER EXPOSED SOIL SO THAT DISCHARGE OF SEDIMENT IS MINIMIZED. AN ADEQUATE STOCKPILE OF EROSION CONTROL MATERIALS WILL BE MAINTAINED AT THE PROJECT SITE IN THE EVENT OF AN EMERGENCY OR ROUTINE REPAIR.

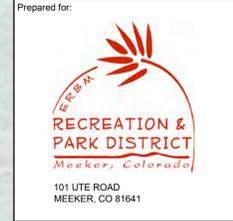
TO FURTHER MINIMIZE SEDIMENT LOSS ON THE SITE, A GENERAL CONSTRUCTION SEQUENCE PLAN HAS BEEN DEVELOPED. THE FOLLOWING ARE PROCEDURES TO BE FOLLOWED:

1. ALL VEHICLES AND EQUIPMENT BROUGHT TO THE PROJECT SITE SHALL BE CLEAN AND FREE OF INVASIVE PLANT MATERIAL.
2. AN ENVIRONMENTAL RESOURCE SPECIALIST SHALL MARK OUT RESOURCE BOUNDARIES RELATED TO WETLAND AND RIVERBANK STABILIZATION AREAS IN THE FIELD PRIOR TO CONSTRUCTION.
3. PRIOR TO ANY SITE GRADING OR SITE WORK, THE CONTRACTOR SHALL INSTALL ALL SEDIMENT AND EROSION CONTROLS AS SHOWN ON THE RESTORATION PLAN, PLUS ANY ADDITIONAL CONTROLS REQUESTED BY THE ENVIRONMENTAL RESOURCE SPECIALIST BASED ON SITE CONDITIONS TO PREVENT SEDIMENT FROM LEAVING THE SITE OR FURTHER ENCRoACHING INTO WETLANDS. THE PHASE 1 POND, OR THE WHITE RIVER.
4. THE CONTRACTOR FOREMAN SHALL BE DESIGNATED AS THE ON-SITE INDIVIDUAL RESPONSIBLE FOR THE DAILY MONITORING AND MAINTENANCE OF ALL SEDIMENT AND EROSION CONTROLS. ANY BREACH OR FAILURE IN SEDIMENT CONTROLS SHALL BE IMMEDIATELY REPAIRED OR REPLACED. SEDIMENT BUILD-UP BEHIND ANY EROSION CONTROL BARRIER SHALL BE REMOVED WHENEVER SEDIMENT HAS ACCUMULATED TO 3-INCHES IN DEPTH.
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BANK RESTORATION NOTES

9. ERODED PORTIONS OF RIVERBANK ARE TO BE RESTORED WITH 12" BIODEGRADABLE SOIL LIFTS AS SHOWN IN THE DETAILS. LIFTS WILL BE INSTALLED BY HAND AND ASSOCIATED MINOR EARTHWORK WILL ALSO BE COMPLETED BY HAND OR WITH LIGHT MACHINERY. UPGRADEMENT AREAS ADJACENT TO BANK STABILIZATION WORK SHALL TO BE REVEGETATED, AS NEEDED.
10. A FRAGILE "PLANTING BED" CONSISTENCY SHALL BE PREPARED. ANY COMPACTION CAUSED BY EXCAVATION SHALL BE ALLEVIATED.
11. SOIL LIFTS ARE TO BE PLANTED WITH NATIVE WOODY SPECIES, THEN SEEDED WITH NATIVE SEED (SEE PLANTING SCHEDULE). PLANT SUBSTITUTIONS DUE TO COMMERCIAL AVAILABILITY OR HYDROLOGIC CONDITIONS MUST BE APPROVED BY THE ENVIRONMENTAL RESOURCE SPECIALIST.
12. THE EROSION CONTROL BARRIER UPGRADEMENT OF BANKWORK OR BETWEEN THE RIVER AND RESTORATION AREAS SHALL BE REMOVED UPON STABILIZATION OF THE RESTORATION AREAS AND THE AREA RAKED TO ELIMINATE ANY BERRS THAT MAY BE PRESENT. ANY BARE SOIL THAT RESULTS FROM THE REMOVAL OF THE EROSION CONTROLS SHALL BE SEEDED WITH THE SPECIFIED SEED MIX. ALL STAKES AND TWINE SHALL BE REMOVED.

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101 UTE ROAD
MEEKER, CO 81641

LEGEND

- MAJOR CONTOURS
- MINOR CONTOURS
- PROPOSED CONTOURS
- FENCE
- PARK ENHANCEMENT AREA
- PHASE 1 DESIGN AREA (BY OTHERS)
- EROSION CONTROL BARRIER
- TREE PROTECTION
- TURBIDITY CURTAIN
- TREE TO BE REMOVED

ANSI D (22"x34") SCALE: 1"=30'
 TABLOID (11"x17") SCALE: 1"=60'

Stamp:

Project Title:
**WHITE RIVER
 RIVERFRONT
 ENHANCEMENTS**
 20 5TH STREET
 MEEKER, CO

Sheet Title:
**EROSION CONTROL
 AND GRADING**

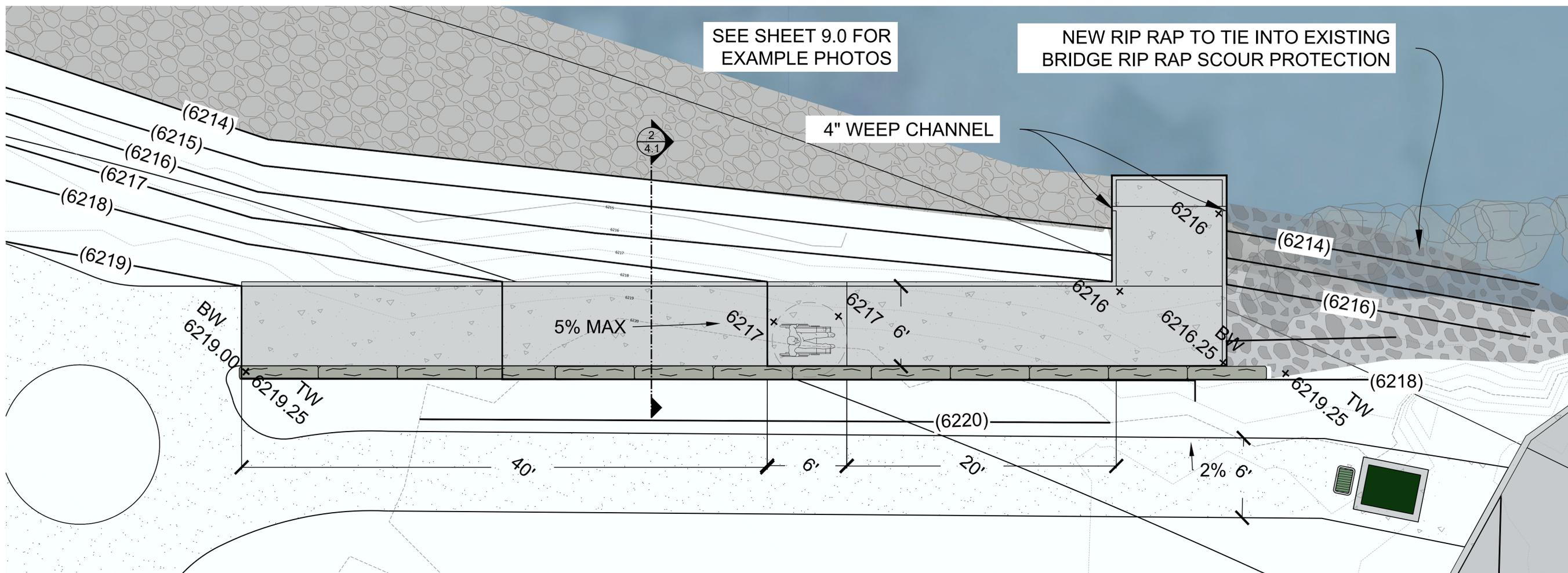
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Checked by:	NG
File #	48063.00

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Date:	By:	Note:

Sheet No:
 4.0





SEE SHEET 9.0 FOR
EXAMPLE PHOTOS

NEW RIP RAP TO TIE INTO EXISTING
BRIDGE RIP RAP SCOUR PROTECTION

4" WEEP CHANNEL

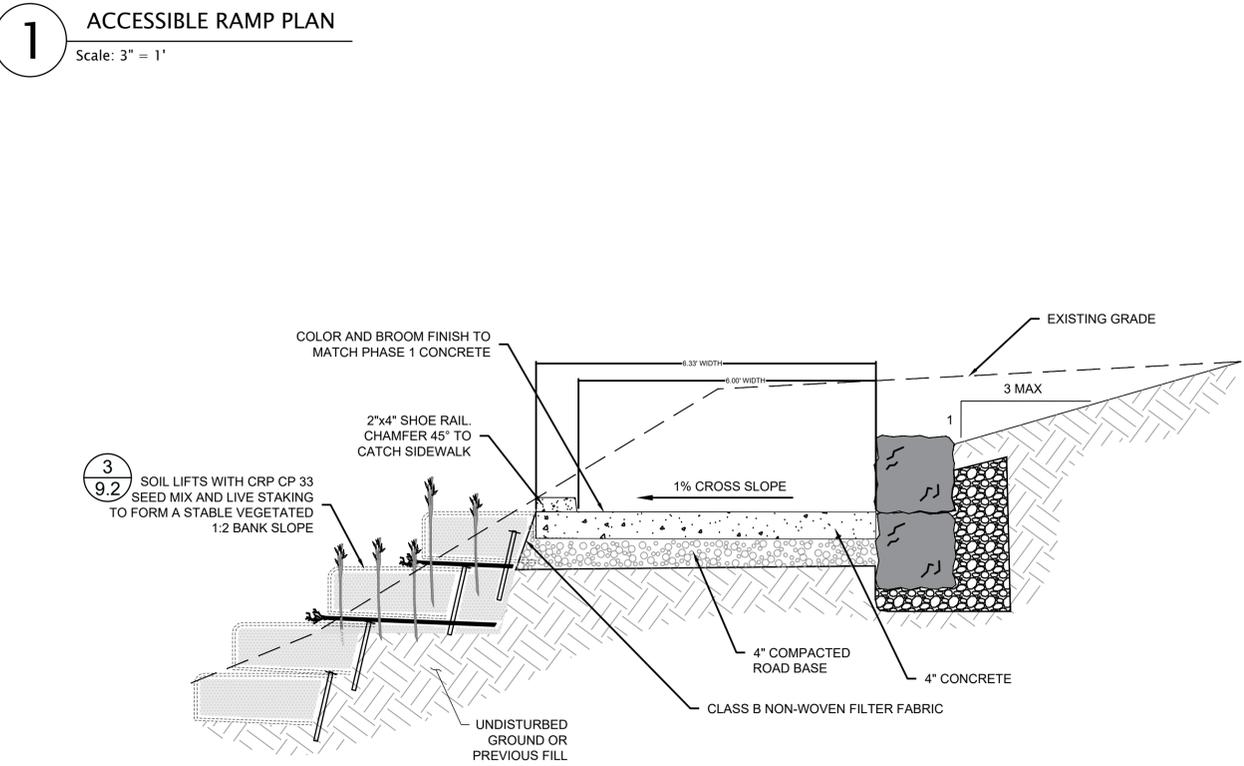
5% MAX

BW 6219.00
TW 6219.25

BW 6216.25
TW 6219.25

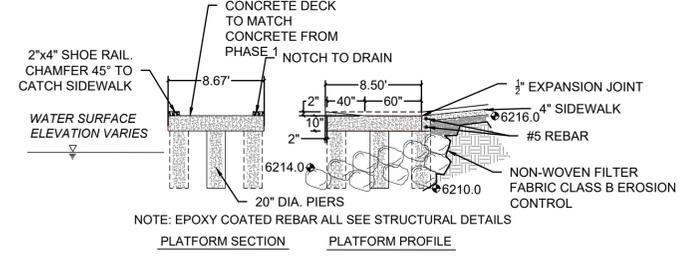
1 ACCESSIBLE RAMP PLAN

Scale: 3" = 1'



2 CONCRETE RAMP SECTION A

SCALE: NTS



NOTE: EPOXY COATED REBAR ALL SEE STRUCTURAL DETAILS

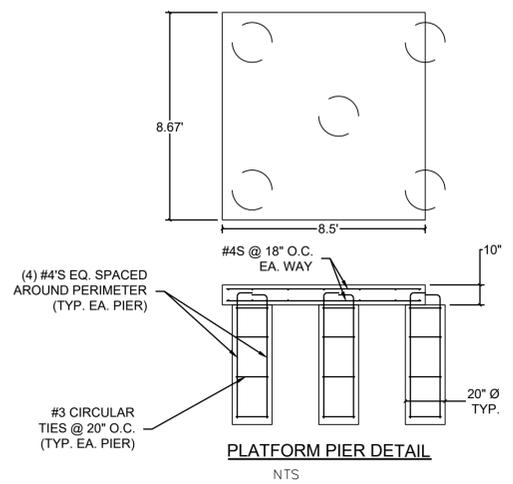
CONCRETE ACCESSIBLE PLATFORM

NTS

GENERAL NOTES:
1. FINAL RAMP DESIGN SHALL BE FURTHER DEVELOPED IN CONCERT WITH IN-RIVER DESIGNS TO ENSURE SUITABLE INTEGRATION WITH PROPOSED RIVER MORPHOLOGY.

GENERAL CONCRETE NOTES:
1. WORK IN STRICT ACCORDANCE WITH THE LATEST EDITION OF THE INTERNATIONAL BUILDING CODE, ACI 318 AND LOCAL ORDINANCES.
2. VERIFY ALL CONDITIONS AND DIMENSIONS PRIOR TO POURING CONCRETE.
3. USE GRADE 60 REINFORCING STEEL.
4. MIN. CONCRETE COMPRESSIVE STRENGTH: $f_c = 3000$ psi.
5. BEAR ALL EXTERIOR FOOTINGS BELOW FROST DEPTH.
6. BEAR FOOTINGS ON UNDISTURBED NATURAL MATERIAL, OR ON PROPERLY PLACED AND COMPACTED GRANULAR FILL.
7. ALL WOOD MEMBERS TO BE NON-INCISED SEE SPECIFICATIONS

GENERAL RETAINING WALL NOTES:
1. DESIGN LATERAL PRESSURE METHOD: EQUIVALENT FLUID PRESSURE (E.F.P.)
2. ASSUMED SOIL VALUES:
ALLOWABLE SOIL BEARING: 1500 psf/ft
ACTIVE SOIL PRESSURE: 35 psf/ft
PASSIVE SOIL PRESSURE: 250 psf/ft
3. VERIFY SOIL VALUES THROUGH GEOTECHNICAL TESTING.



PLATFORM PIER DETAIL

NTS

3 ACCESSIBLE RIVER ACCESS RAMP

SCALE: NTS

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Prepared for:
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Meeker, Colorado
101 UTE ROAD
MEEKER, CO 81641

LEGEND
- - - MAJOR CONTOURS
- - - MINOR CONTOURS
- - - PROPOSED CONTOURS
- - - FENCE
[] PARK ENHANCEMENT AREA
[] PHASE 1 DESIGN AREA (BY OTHERS)
[] EROSION CONTROL BARRIER
[] TREE PROTECTION
[] TURBIDITY CURTAIN
[X] TREE TO BE REMOVED

ANSI D (22"x34") SCALE: 1"=30'
TABLOID (11"x17") SCALE: 1"=60'

Project Title:
WHITE RIVER RIVERFRONT ENHANCEMENTS
20 5TH STREET
MEEKER, CO

Sheet Title:
EROSION CONTROL AND GRADING

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- LEGEND
- MAJOR CONTOURS
 - MINOR CONTOURS
 - PROPOSED CONTOURS
 - FENCE
 - PHASE 1 IMPLEMENTATION (BY OTHERS)
 - SLOPE STABILIZATION AND RESEEDING AREA
 - FORMAL PLANTING AREAS
 - LANDSCAPE SEEDING AREA
 - STORMWATER RAINGARDEN
 - EXISTING SOD
 - POST AND CHAIN BOLLARDS

ANSI D (22"x34") SCALE: 1"=30'
 TABLOID (11"x17") SCALE: 1"=60'

Stamp:

Project Title:
WHITE RIVER RIVERFRONT ENHANCEMENTS
 20 5TH STREET
 MEEKER, CO

Sheet Title:
LANDSCAPE PLAN

Date:	12/11/2020
Scale:	As Shown
Drawn by:	TS
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File #	48063.00

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Date:	By:	Note:

Sheet No:
5.0



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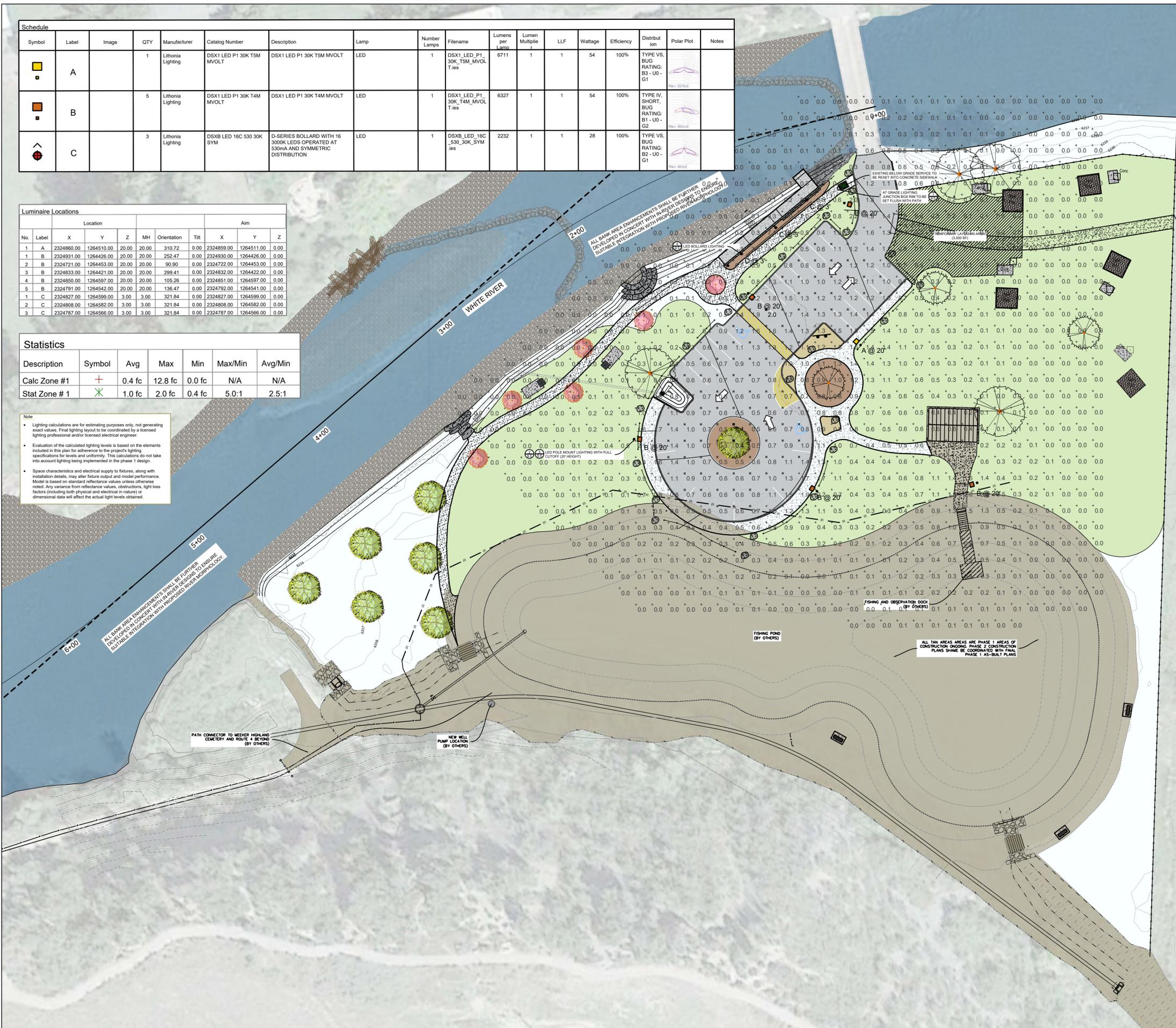
Symbol	Label	Image	QTY	Manufacturer	Catalog Number	Description	Lamp	Number Lamps	Filename	Lumens per Lamp	Lumen Multiple	LLF	Wattage	Efficiency	Distribution	Polar Plot	Notes
■	A		1	Lithonia Lighting	DSX1 LED P1 30K T5M MVOLT	DSX1 LED P1 30K T5M MVOLT	LED	1	DSX1_LED_P1_30K_T5M_MVOLT.T.ies	6711	1	1	54	100%	TYPE VS. BUG RATING: B3-U0-G1		
■	B		5	Lithonia Lighting	DSX1 LED P1 30K T4M MVOLT	DSX1 LED P1 30K T4M MVOLT	LED	1	DSX1_LED_P1_30K_T4M_MVOLT.T.ies	6327	1	1	54	100%	TYPE IV, SHORT, BUG RATING: B1-U0-G2		
⤴	C		3	Lithonia Lighting	DSXB LED 16C 530 30K SYM	D-SERIES BOLLARD WITH 16 3000K LEDS OPERATED AT 530mA AND SYMMETRIC DISTRIBUTION	LED	1	DSXB_LED_16C_530_30K_SYM.ies	2232	1	1	28	100%	TYPE VS. BUG RATING: B2-U0-G1		

Luminaire Locations											
Location											Aim
No.	Label	X	Y	Z	MH	Orientation	Tilt	X	Y	Z	
1	A	2324860.00	1264510.00	20.00	20.00	310.72	0.00	2324859.00	1264511.00	0.00	
1	B	2324931.00	1264426.00	20.00	20.00	252.47	0.00	2324930.00	1264426.00	0.00	
2	B	2324721.00	1264453.00	20.00	20.00	90.90	0.00	2324722.00	1264453.00	0.00	
3	B	2324833.00	1264421.00	20.00	20.00	299.41	0.00	2324832.00	1264422.00	0.00	
4	B	2324850.00	1264597.00	20.00	20.00	105.26	0.00	2324851.00	1264597.00	0.00	
5	B	2324791.00	1264542.00	20.00	20.00	136.47	0.00	2324792.00	1264541.00	0.00	
1	C	2324827.00	1264599.00	3.00	3.00	321.84	0.00	2324827.00	1264599.00	0.00	
2	C	2324808.00	1264582.00	3.00	3.00	321.84	0.00	2324808.00	1264582.00	0.00	
3	C	2324787.00	1264566.00	3.00	3.00	321.84	0.00	2324787.00	1264566.00	0.00	

Statistics						
Description	Symbol	Avg	Max	Min	Max/Min	Avg/Min
Calc Zone #1	+	0.4 fc	12.8 fc	0.0 fc	N/A	N/A
Stat Zone #1	X	1.0 fc	2.0 fc	0.4 fc	5.0:1	2.5:1

Note

- Lighting calculations are for estimating purposes only, not generating exact values. Final lighting layout to be coordinated by a licensed lighting professional and/or licensed electrical engineer.
- Evaluation of the calculated lighting levels is based on the elements included in this plan for adherence to the project's lighting specifications for levels and uniformity. This calculations do not take into account lighting being implemented in the phase 1 design.
- Space characteristics and electrical supply to fixtures, along with installation details, may alter fixture output and model performance. Model is based on standard reflectance values unless otherwise noted. Any variance from reflectance values, obstructions, light loss factors (including both physical and electrical in nature) or dimensional data will affect the actual light levels obtained.



Prepared by:
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Prepared for:

RECREATION & PARK DISTRICT
 Meeker, Colorado
 101 UTE ROAD
 MEEKER, CO 81641

LEGEND

- MAJOR CONTOURS
- MINOR CONTOURS
- - - PROPOSED CONTOURS
- FENCE
- PARK ENHANCEMENT AREA
- PHASE 1 DESIGN AREA (BY OTHERS)

ANSI D (22"x34") SCALE: 1"=30'
 TABLOID (11"x17") SCALE: 1"=60'

Stamp:
 Project Title:
WHITE RIVER RIVERFRONT ENHANCEMENTS
 20 5TH STREET
 MEEKER, CO

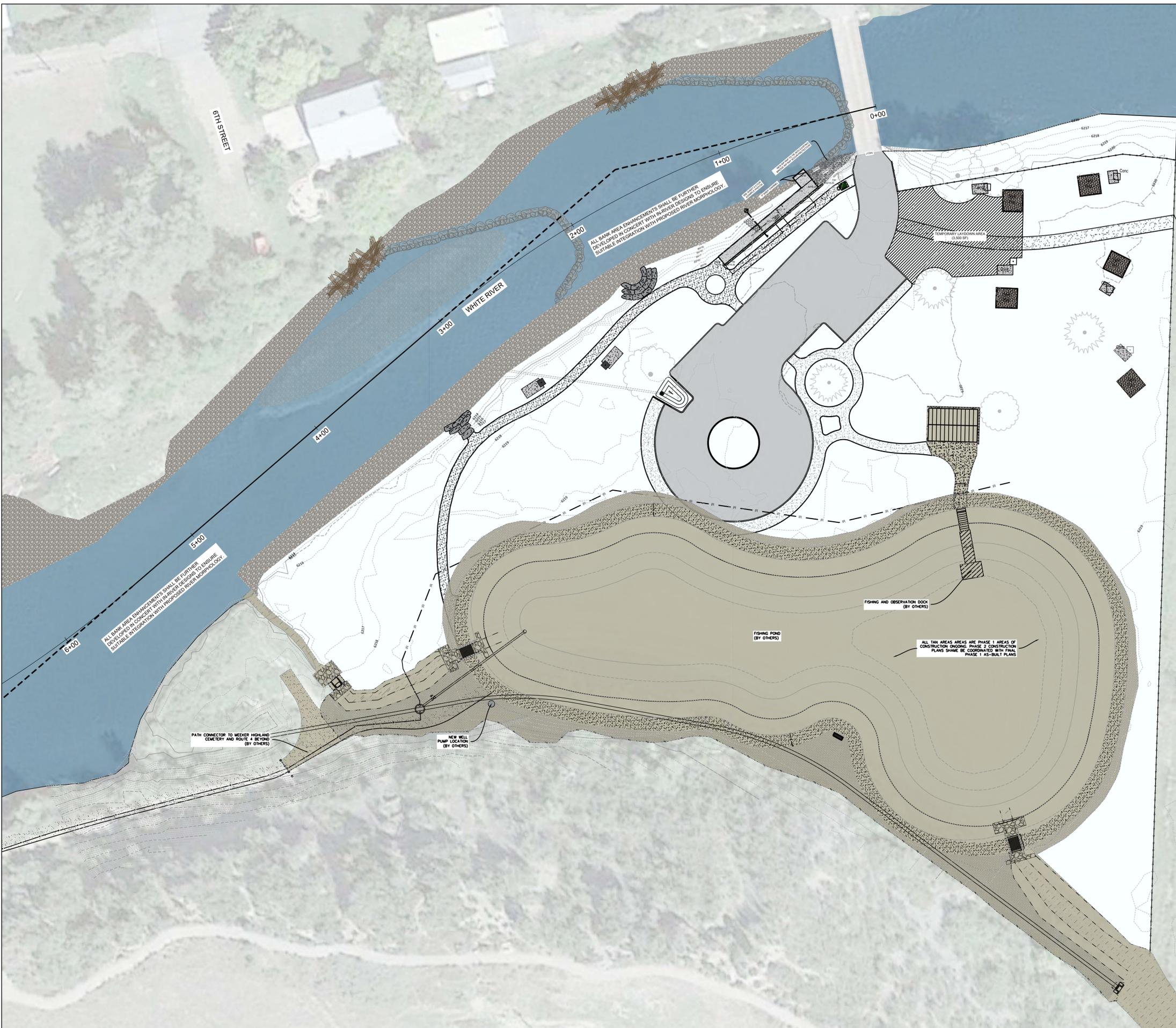
Sheet Title:
LIGHTING PLAN

Date: 12/11/2020
 Scale: As Shown
 Drawn by: TS
 Checked by: NG
 File #: 48063.00

REVISIONS		
Date:	By:	Note:

Sheet No:
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LEGEND
 - - - MAJOR CONTOURS
 - - - MINOR CONTOURS
 --- FENCE
 [Tan Shaded Area] PHASE 1 IMPLEMENTATION (BY OTHERS)

ANSI D (22"x34") SCALE: 1"=30'
 TABLOID (11"x17") SCALE: 1"=60'


Stamp:

Project Title:
WHITE RIVER RIVERFRONT ENHANCEMENTS
 20 5TH STREET
 MEEKER, CO

Sheet Title:
IRRIGATION PLAN

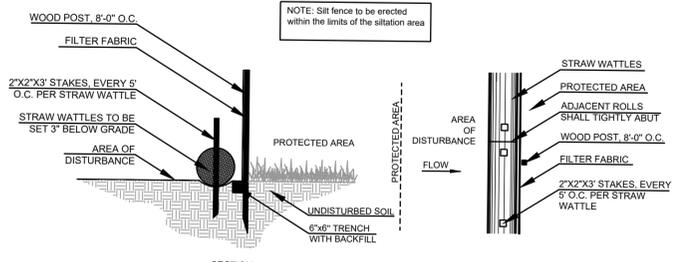
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Checked by:	NG
File #	48063.00

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Date:	By:	Note:

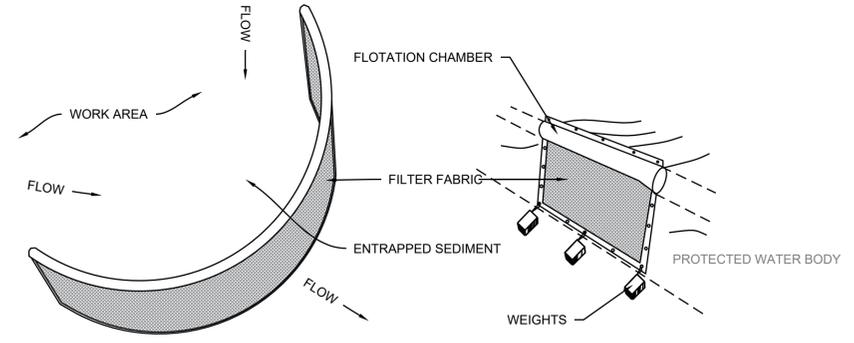
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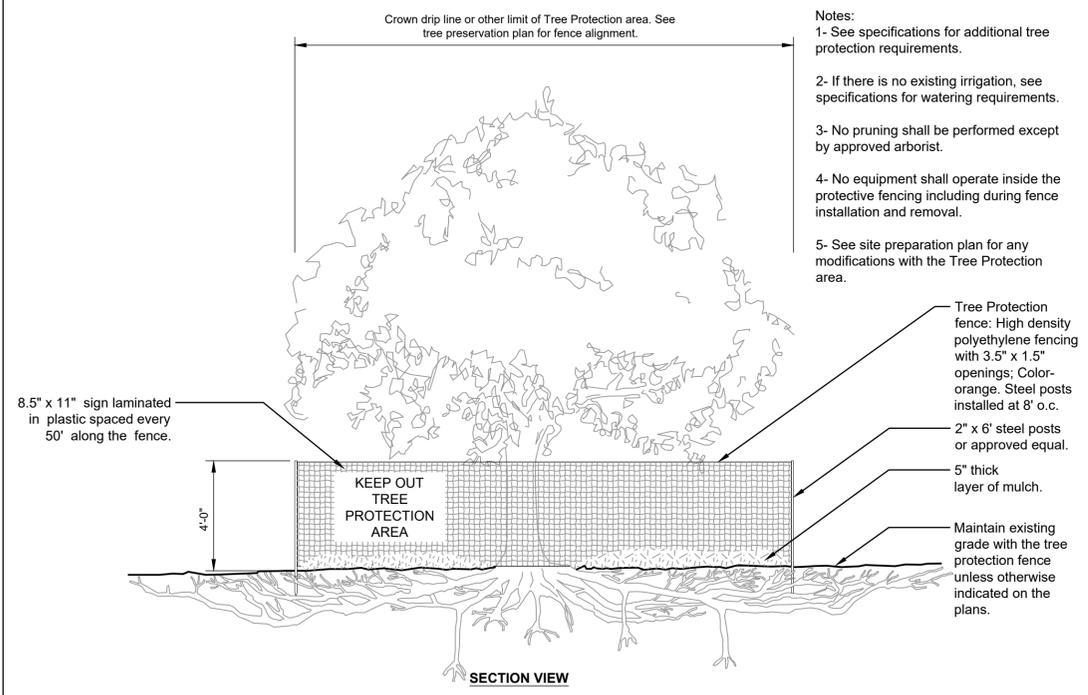
PLANS FOR BID PURPOSED ONLY. NOT FOR CONSTRUCTION



1 EROSION CONTROL BARRIER - SILTFENCE WITH STRAW WATTLES
Scale: NTS



2 TURBIDITY CURTAIN DETAIL FOR IN-WATER SEDIMENT CONTROL (TYP.)
Scale: NTS



3 TREE PROTECTION

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LEGEND

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WHITE RIVER RIVERFRONT ENHANCEMENTS
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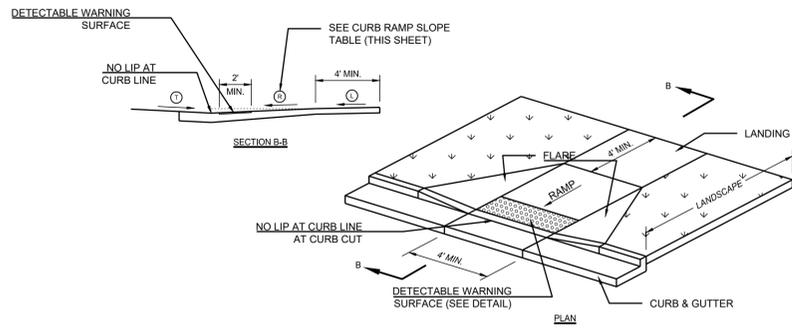
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EROSION CONTROL DETAILS

Date:	12/11/2020
Scale:	As Shown
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Checked by:	NG
File #	48063.00

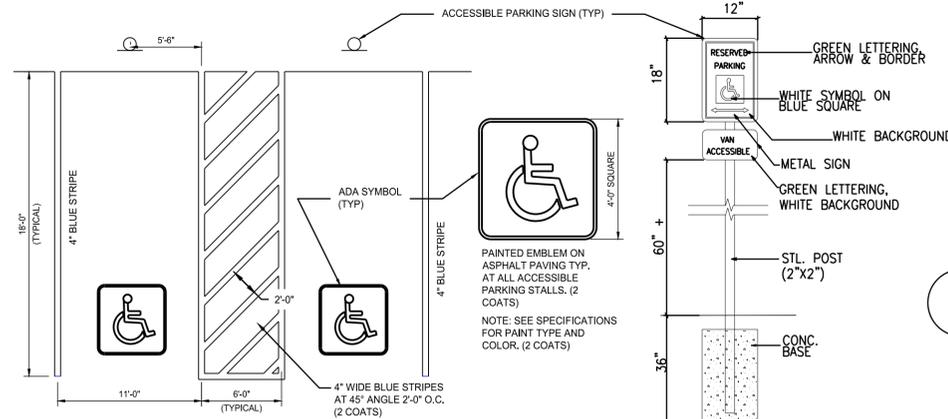
REVISIONS		
Date:	By:	Note:

Sheet No:
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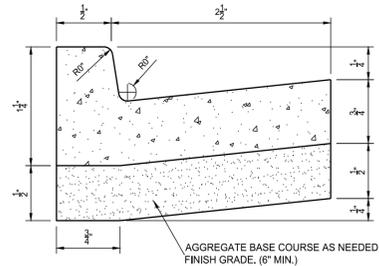




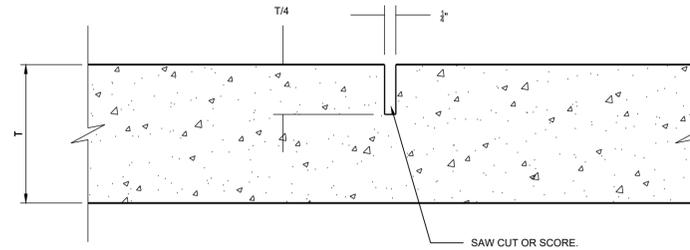
1 ADA RAMP DETAIL
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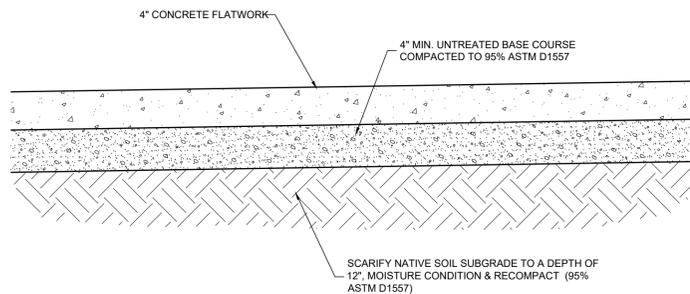
2 ADA PARKING DETAIL
SCALE: NTS



3 30" CURB AND GUTTER DETAIL
SCALE: NTS

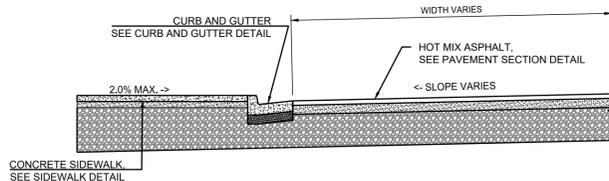


NOTES:
1. SEE NOTES FOR CONCRETE SLABS ON GRADE ON SHEET C002.

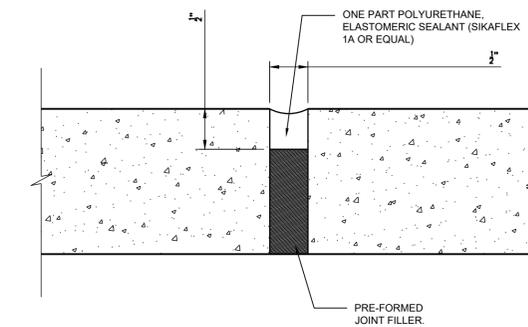


NOTE:
1. REFER TO DETAIL K5/C501 FOR CONTROL AND EXPANSION JOINT DETAILS.
2. GRADE TO DRAIN, 2% MIN. CROSS SLOPE.

4 4" CONCRETE SIDEWALK DETAIL
SCALE: NTS

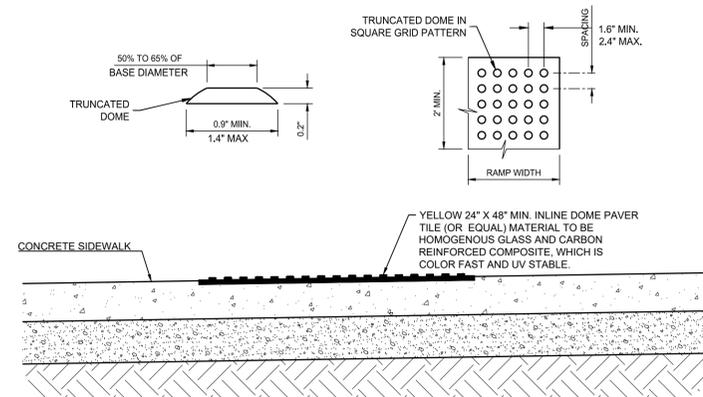


5 PARKING CURB SECTION DETAIL
SCALE: NTS



NOTES:
1. SEE NOTES FOR CONCRETE SLABS ON GRADE ON SHEET C002.
2. FOR CURB & GUTTER AND SIDEWALK, PLACE EXPANSION JOINTS AT 50' INTERVALS, EXCEPT WHEN USING SLIP FORM MACHINE. PLACE AT BEGINNING AND END OF EACH CONTINUOUS RUN.
3. EXPANSION JOINTS SHALL BE INSTALLED ON ALL FLATWORK AND SIDEWALKS ADJACENT TO ANY STRUCTURE

6 STANDARD CONCRETE JOINT DETAILS
SCALE: NTS



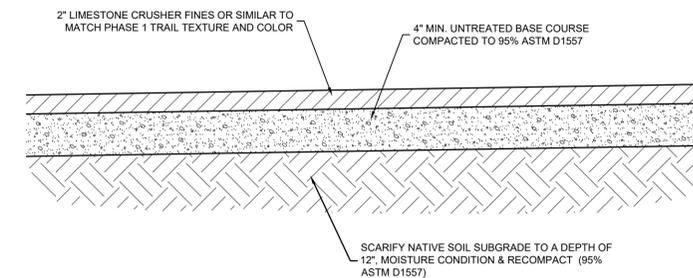
7 DETECTABLE WARNING PAD DETAIL
SCALE: NTS

CURB RAMP SLOPE TABLE		
ITEM	MAX. RUNNING SLOPE *	MAX. CROSS SLOPE *
(L) LANDING	2% (1V:50H)	2% (1V:50H)
(R) RAMP	8.33% (1V:12H)	2% (1V:50H)
(T) TRANSITION	5% (1V:20H) (a)	2% (1V:50H)
SIDEWALK	--	2% (1V:50H)
FLARE	10% (1V:10H)	--

* RUNNING SLOPE IS IN THE DIRECTION OF PEDESTRIAN TRAVEL, WHILE CROSS SLOPE IS PERPENDICULAR TO PEDESTRIAN TRAVEL.
(a) TRANSITION RUNNING SLOPE NEEDS TO BE CONSTANT ACROSS ENTIRE CURB CUT. WARP GUTTER PAN TO MEET REQUIRED TRANSITION SLOPE AT CURB CUT.

- NOTES:
1. CONFIGURATION OF RAMPS AND LANDINGS MAY VARY TO FIT SITE CONDITIONS, BUT MUST MEET DIMENSION AND SLOPE REQUIREMENTS.
2. PROVIDE DETECTABLE WARNING SURFACE FOR FULL WIDTH OF RAMP. SEE DETAIL FOR DETECTABLE WARNING SURFACE DIMENSIONS.
3. LOCATE DETECTABLE WARNING SURFACE SO THAT THE EDGE NEAREST THE STREET IS 6 OR 8 INCHES FROM THE CURB LINE.
4. PROVIDE DETECTABLE WARNING SURFACE THAT CONTRASTS WITH ADJACENT WALKING SURFACE, EITHER LIGHT-ON-DARK OR DARK-ON-LIGHT. ACCEPTABLE COLORS INCLUDE: RED, BLACK OR YELLOW.
5. CURB RAMPS SHALL COMPLY WITH AMERICANS WITH DISABILITIES ACT (ADA) REQUIREMENTS.

8 CURB RAMP SLOPE TABLE
SCALE: NTS



NOTE:
1. GRADE TO DRAIN, 2% MIN. CROSS SLOPE.
2. CROSS SLOPE TO PITCH DOWN GRADIENT TO PROMOTE POSITIVE DRAINAGE
3. CONSTRUCT PATH 6' WIDE.

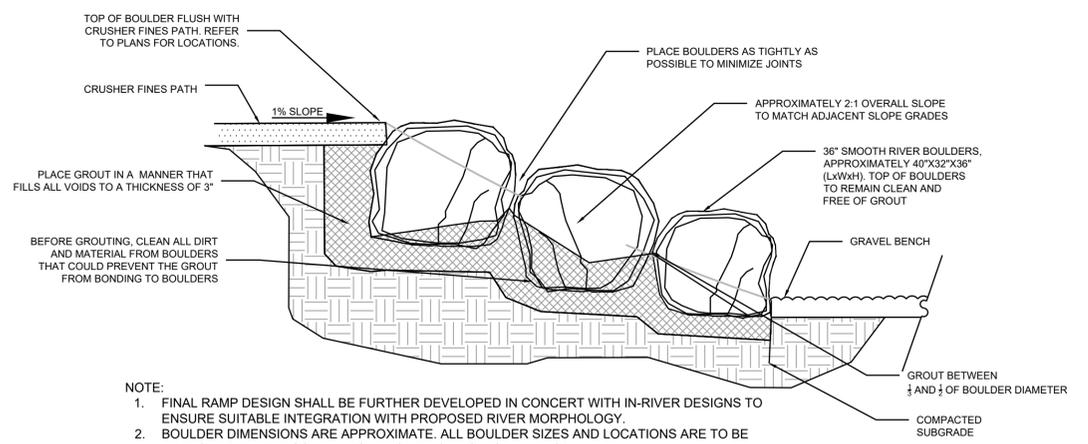
9 AGGREGATE WALKING PATH



Know what's below
Call before you dig.

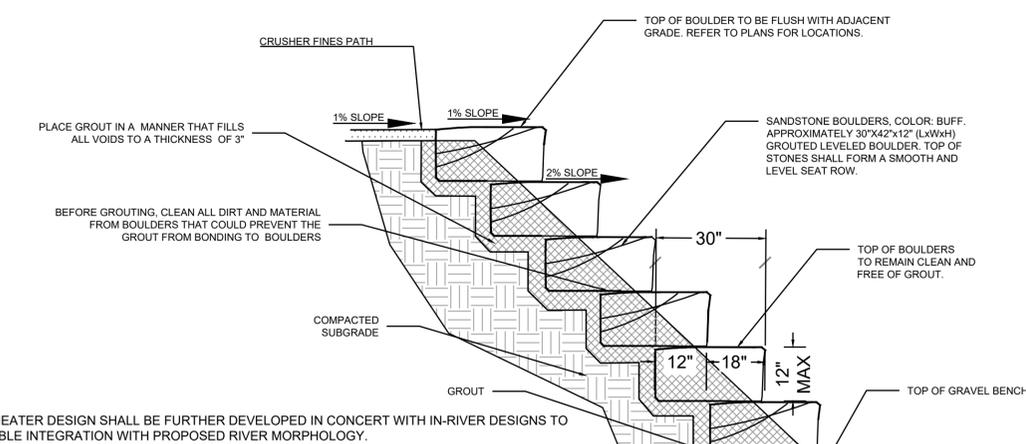
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Drawn by:	TS
Checked by:	NG
File #	48063.00

REVISIONS		
Date:	By:	Note:



- NOTE:
1. FINAL RAMP DESIGN SHALL BE FURTHER DEVELOPED IN CONCERT WITH IN-RIVER DESIGNS TO ENSURE SUITABLE INTEGRATION WITH PROPOSED RIVER MORPHOLOGY.
 2. BOULDER DIMENSIONS ARE APPROXIMATE. ALL BOULDER SIZES AND LOCATIONS ARE TO BE APPROVED BY LANDSCAPE ARCHITECT PRIOR TO INSTALLATION.
 3. ALL GROUT SHALL HAVE A MINIMUM 28-DAY COMPRESSIVE STRENGTH EQUAL TO 3200 PSI.
 4. ONE CUBIC YARD OF GROUT SHALL HAVE A MINIMUM OF SIX (6) SACKS OF TYPE II PORTLAND CEMENT.
 5. A MAXIMUM OF 25% TYPE F FLY ASH MAY BE SUBSTITUTED FOR THE PORTLAND CEMENT.
 6. FOR TYPE A GROUT, THE AGGREGATE SHALL BE COMPRISED OF 70% NATURAL SAND (FINES) AND 30% 3/8-INCH ROCK (COARSE).
 7. THE GROUT SLUMP SHALL BE 4-INCHES TO 6-INCHES.
 8. AIR ENTRAINMENT SHALL BE 5.5%-7.5%.
 9. TO CONTROL SHRINKAGE AND CRACKING, 1.5 POUNDS OF FIBERMESH, OR EQUIVALENT, SHALL BE USED PER CUBIC YARD OF GROUT.

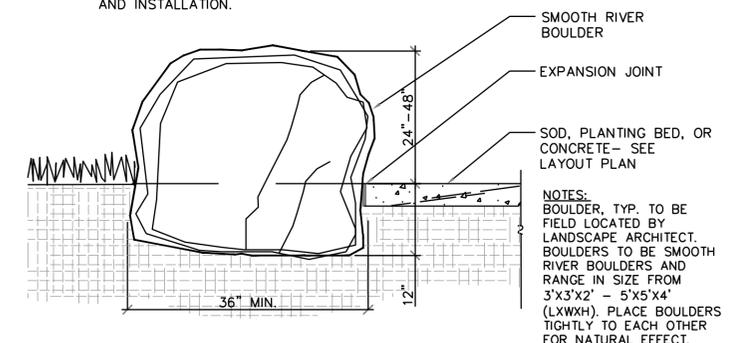
1 BOULDER STEPS RIVER ACCESS
 Scale: NTS



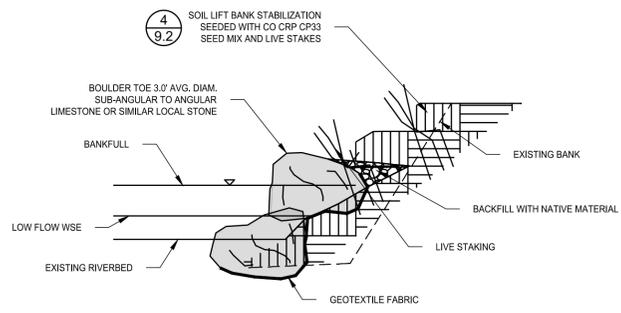
- NOTE:
1. FINAL AMPHITHEATER DESIGN SHALL BE FURTHER DEVELOPED IN CONCERT WITH IN-RIVER DESIGNS TO ENSURE SUITABLE INTEGRATION WITH PROPOSED RIVER MORPHOLOGY.
 2. ALL GROUT SHALL HAVE A MINIMUM 28-DAY COMPRESSIVE STRENGTH EQUAL TO 3200 PSI.
 3. ONE CUBIC YARD OF GROUT SHALL HAVE A MINIMUM OF SIX (6) SACKS OF TYPE II PORTLAND CEMENT.
 4. A MAXIMUM OF 25% TYPE F FLY ASH MAY BE SUBSTITUTED FOR THE PORTLAND CEMENT.
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 6. THE GROUT SLUMP SHALL BE 4-INCHES TO 6-INCHES.
 7. AIR ENTRAINMENT SHALL BE 5.5%-7.5%.
 8. TO CONTROL SHRINKAGE AND CRACKING, 1.5 POUNDS OF FIBERMESH, OR EQUIVALENT, SHALL BE USED PER CUBIC YARD OF GROUT.
 9. BOULDER DIMENSIONS ARE APPROXIMATE. ALL BOULDER SIZES AND LOCATIONS ARE TO BE APPROVED BY LANDSCAPE ARCHITECT PRIOR TO INSTALLATION.

2 STONE AMPHITHEATER RIVER ACCESS
 Scale: NTS

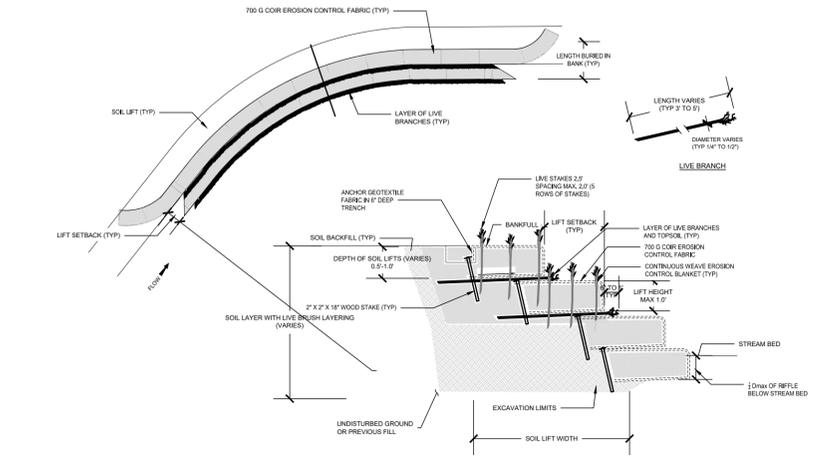
- NOTES:
1. ENSURE APPROXIMATELY 1/3 OF BOULDER IS BURIED BELOW TOP OF FINISH GRADE. SET BOULDER AS SHOWN IN ELEVATION.
 2. PLACE FOAM AROUND BASE OF BOULDER WHERE ADJACENT TO NEW CONCRETE. COVER BOULDER IN PLASTIC FOR PROTECTION, POUR CONCRETE UP TO BOULDERS, REMOVE PLASTIC, CUT FOAM, AND CAULK BETWEEN BOULDER AND CONCRETE.
 3. ALL BOULDERS SHALL BE SELECTED BY LANDSCAPE ARCHITECT PRIOR TO DELIVERY AND INSTALLATION.



3 LANDSCAPE BOULDER
 Scale: 1" = 1'-0"



4 BOULDER TOE
 SCALE: NTS



5 SOIL LIFT BANK STABILIZATION
 SCALE: NTS

- NOTES:
1. ALL BANK AREA ENHANCEMENTS SHALL BE FURTHER DEVELOPED IN CONCERT WITH IN-RIVER DESIGNS TO ENSURE SUITABLE INTEGRATION WITH PROPOSED RIVER MORPHOLOGY.
 2. THE SOIL BACKFILL USED FOR LIFTS AND TOPSOIL USED FOR LAYERING WITH THE LIVE BRANCHES SHALL BE FREE OF ANY LARGE ROOTS OR WOODY DEBRIS AND SHALL GENERALLY BE FREE FROM ANY GRAVEL OR COBBLE MATERIAL.
 3. SOIL BACKFILL SHALL BE COMPACTED SUCH THAT FUTURE SETTLING WILL BE KEPT TO A MINIMUM. YET, NOT SUCH THAT THE UNDERLYING SOIL LIFT IS DISPLACED OR DAMAGED.
 4. THE TOP OF THE BACKFILL FOR THE FIRST LIFT SHALL BE SLOPED AT APPROXIMATELY 5% AWAY FROM THE STREAM.
 5. PLACE A LAYER OF TOPSOIL AND LIVE BRANCHES ON TOP OF EACH SOIL LIFT SUCH THAT APPROXIMATELY 6 INCHES TO 1 FOOT OF EACH LIVE BRANCH WILL BE EXPOSED AND THE REMAINING 2\"/>



PLANT SCHEDULE

DECIDUOUS TREES	CODE	BOTANICAL NAME	COMMON NAME	SIZE	CONTAINER	QTY
	AME GRA	Amelanchier x grandiflora 'Autumn Brilliance'	Autumn Brilliance Serviceberry	2" Cal.	B&B	6
	GLE IM2	Gleditsia triacanthos inermis 'Impcole' TM	Imperial Honeylocust	2.5" Cal.	B&B	7

SHRUBS	CODE	BOTANICAL NAME	COMMON NAME	SIZE	CONTAINER	QTY
	AME RGN	Amelanchier alnifolia 'Regent'	Regent Serviceberry	5 gal.	Pot	11
	CAR CLA	Caryopteris x clandonensis 'Blue Mist'	Blue Mist Bluebeard	5 gal.	Pot	7
	CHR NAU	Chrysothamnus nauseosus	Dwarf Blue Rabbitbrush	5 gal.	Pot	6
	COR RES	Cornus sericea	Red Twig Dogwood	5 gal.	Pot	11
	FAL PAR	Fallugia paradoxa	Apache Plume	5 gal.	Pot	1
	POT RUC	Potentilla fruticosa 'purdornii'	Forever Gold Cinquefoil	5 gal.	Pot	5
	PRU BES	Prunus besseyi	Sand Cherry	5 gal.	Pot	1
	RHU GRO	Rhus aromatica 'Gro-Low'	Gro-Low Fragrant Sumac	5 gal.	Pot	7
	RHU TIG	Rhus typhina 'Tiger Eyes'	Tiger Eyes Sumac	5 gal.	Pot	8
	YUC HAR	Yucca harrimaniae	Harriman's Yucca	5 gal.	Pot	12

PERENNIALS	CODE	BOTANICAL NAME	COMMON NAME	SIZE	CONTAINER	QTY
	ASC TUB	Asclepias tuberosa	Butterfly Milkweed	1 gal.	Pot	21
	GAI ARI	Gaillardia aristata	Common Gaillardia	1 gal.	Pot	12
	SCH LIT	Schizachyrium scoparium	Little Bluestem Grass	1 gal.	Pot	28
	STA PIN	Stanleya pinnata	Prince's Plume	5 gal.		9

GROUND COVERS	CODE	BOTANICAL NAME	COMMON NAME	SIZE	CONTAINER	SPACING	QTY
	AMS JN2	Amsonia jonesii	Jones' Bluestar	1 gal.	Pot	18" o.c.	19

1 PLANT SCHEDULE
Scale: NTS

COLORADO CRP CP33 DIVERSE GRASSES AND FORBS MIX W/ SHRUBS

Common name N=Native, I=Introduced	Genus, species	Recommended Cultivar	% of seed mix	Pounds (lbs) pure live seed (PLS)
Grasses, forbs				
Switchgrass	<i>Panicum virgatum</i>	Blackwell, Neb28, Pathfinder	10.0	0.22
Big bluestem	<i>Andropogon gerardii</i>	Bison, Champ, Kaw, Pawnee	10.0	0.55
Little bluestem	<i>Schizachyrium scoparium</i>	Pastura, Camper, Cimn., Blaze	10.0	0.34
Yellow indiangrass	<i>Sorghastrum nutans</i>	Cheyenne, Holt Llano	10.0	0.51
Winterfat	<i>Krascheninnikovia lanata</i>		5.0	0.35
Western Yarrow	<i>Achillea lanulosa</i>		2.0	0.01
Alfalfa	<i>Medicago sativa</i>	Ladak	2.0	0.08
Blanketflower	<i>Gaillardia aristata</i>		4.0	0.18
Sainfoin	<i>Onobrychis viciifolia</i>	Shoshone	3.0	1.05
Black-eyed Susan	<i>Rudbeckia hirta</i>		4.0	0.02
Rocky Mountain Beeplant	<i>Cleome serrulata</i>		0.5	0.07
Alsike clover	<i>Trifolium hybridum</i>		7.0	0.09
Prairie Coneflower	<i>Ratibida columnifera</i>		4.5	0.04
Plains coreopsis	<i>Coreopsis tinctoria</i>		1.0	0.01
Blue flax	<i>Linum perenne</i>	Appar	2.0	0.06
Illinois bundleflower	<i>Desmanthus illinoensis</i>		3.0	0.22
Cicer milkvetch	<i>Astragalus cicer</i>	Lutana, Monarch	5.0	0.22
Rocky mtn. penstemon	<i>Penstemon strictus</i>	Bandera	1.0	0.02
Purple prairie clover	<i>Dalea purpurea purpurea</i>	Kaneb	2.0	0.06
Annual sunflower	<i>Helianthus annuus</i>		1.0	0.15
Shrubs				
Maximilian sunflower	<i>Helianthus maximiliani</i>	Prairie Gold	5.0	0.24
Yellow sweetclover	<i>Melilotus officinale</i>		3.0	0.10
Rubber rabbitbrush	<i>Encarnaria nauseosa</i>		5.0	0.11
Total lbs PLS (lbs PLS/acre)				4.70

*Seed matrix provided by Pheasants Forever

2 COLORADO CRP CP33 DIVERSE GRASSES AND FORBS MIX W/ SHRUBS SEED MIXES
Scale: NTS

COLORADO CRP CP42 POLLINATOR SEED MIX-LOAM SOILS

Common name N=Native, I=Introduced	Genus, species	Recommended Cultivar	% of seed mix	Pounds (lbs) pure live seed (PLS)
Grasses, forbs				
Switchgrass	<i>Panicum virgatum</i>	Blackwell, Neb28, Pathfinder	9.0	0.17
Little bluestem	<i>Schizachyrium scoparium</i>	Pastura, Camper, Cimn., Blaze	9.0	0.26
Yellow indiangrass	<i>Sorghastrum nutans</i>	Cheyenne, Holt Llano	9.0	0.35
Big bluestem	<i>Andropogon gerardii</i>	Bison, Champ, Kaw, Pawnee	9.0	0.42
Showy milkweed	<i>Asclepias speciosa</i>		1.0	0.09
Plains coreopsis	<i>Coreopsis tinctoria</i>		5.0	0.03
Blanketflower	<i>Gaillardia aristata</i>		10.0	0.37
Maximilian sunflower	<i>Helianthus maximiliani</i>	Prairie Gold	2.0	0.08
Prairie Coneflower	<i>Ratibida columnifera</i>		8.0	0.07
Purple prairie clover	<i>Dalea purpurea purpurea</i>	Kaneb	2.0	0.05
Annual sunflower	<i>Helianthus annuus</i>		2.0	0.25
Small burnet	<i>Sanguisorba minor</i>	Delar	3.0	0.53
Alfalfa	<i>Medicago sativa</i>	Ladak	2.0	0.07
Sainfoin	<i>Onobrychis viciifolia</i>	Shoshone	2.0	0.55
Yellow sweetclover	<i>Melilotus officinale</i>		2.0	0.08
Blue flax	<i>Linum perenne</i>	Appar	8.0	0.20
Black-eyed Susan	<i>Rudbeckia hirta</i>		8.0	0.03
Western Yarrow	<i>Achillea lanulosa</i>		7.0	0.02
Rocky mtn. penstemon	<i>Penstemon strictus</i>	Bandera	2.0	0.03
Total lbs PLS (lbs PLS/acre)				3.71

*Seed matrix provided by Pheasants Forever

3 COLORADO CRP CP42 POLLINATOR SEED MIX-LOAM SOILS
Scale: NTS

HIGH PLAINS/FOOTHILLS WET MEADOW SEED MIX

Common name	Genus, species	% of seed mix	Pounds (lbs)
Grasses, forbs			
Alkali Bulrush	<i>bolboschoenus maritimus</i>	15.0	3.27
Canada Wildrye	<i>elymus canadensis</i>	15.0	3.27
Switchgrass	<i>panicum virgatum</i>	15.0	3.27
Indian Grass	<i>sorghastrum nutans</i>	12.0	2.61
Prairie Cordgrass	<i>spartina pectinata</i>	7.0	1.52
Nebraska Sedge	<i>carex nebrascensis</i>	6.0	1.31
Spikerush	<i>eleocharis palustris</i>	6.0	1.31
Hard Stem Bulrush	<i>schoenoplectus acutus</i>	6.0	1.31
Soft Stem Bulrush	<i>schoenoplectus tabernaemontani</i>	6.0	1.31
Olney's Three-Square Bulrush	<i>schoenoplectus americanus</i>	6.0	1.31
Baltic Rush	<i>juncus balticus</i>	4.0	0.87
Woolly Sedge	<i>carex pellita</i>	2.0	0.44
Total lbs (lbs/acre)			21.34

*Seed matrix provided by Western Native Seed

4 HIGH PLAINS/FOOTHILLS WET MEADOW SEED MIX
Scale: NTS

SEEDING GUIDANCE

- SEED METHODOLOGY: THE FOLLOWING METHODOLOGY PROVIDES SEQUENCING FOR ESTABLISHING THE SEED MIXES PRESCRIBED ON THE PLANS. THIS PROCESS SHOULD BEGIN FOLLOWING FINAL GRADING. THIS METHODOLOGY DOES NOT SPECIFY A TEMPORARY COVER CROP. A COVER CROP MAY BE NEEDED TO STABILIZE THE SITE DEPENDING ON WEATHER CONDITIONS AND CONSTRUCTION TIMING RELATIVE TO THE SEASONS AND THE IDEAL TIME FRAME FOR ESTABLISHING THE SEEDING AREAS. THE BEST TIME TO SEED FOR THIS PROJECT IS IN THE SPRING WHEN THE SOILS ARE AT A NORMAL MOISTURE CONTENT LEVEL (MOIST, NOT SATURATED) AND NO LATER THAN JUNE 30. WEATHER FORECASTS SHOULD BE MONITORED AS OCCASIONAL WATERING MAY BE NECESSARY IF A DRY SPRING SEASON OCCURS. THE SEEDING SEQUENCE SHOULD BEGIN NO LONGER THAN 48 HOURS AFTER FINAL GRADING. SITE STABILIZATION TECHNIQUES SHOULD BE UTILIZED IN THIS 48-HOUR TIME PERIOD.
- SOIL SCARIFICATION/ SEED BED PREPARATION: SEED BED PREPARATION IS THE PROCESS OF SCARIFYING AND LOOSENING THE SOIL SURFACE TO CREATE A LOOSE, FRIABLE, SOIL SURFACE. THE SOIL SURFACE SHOULD BE A UNIFORM PLANAR SURFACE THAT IS FLAT AND WITHOUT EXCESSIVE RIDGES, FURROWS, RUTS OR MOUNDS AND LOW SPOTS WHERE WATER CAN COLLECT. SOIL SCARIFICATION SHOULD ONLY OCCUR WHEN WEATHER, SOIL CONDITIONS, AND CONSTRUCTION PHASING ALLOWS FOR NO LONGER THAN 48 HOURS BETWEEN SCARIFICATION (THE BEGINNING OF THE SEEDING PROCESS) AND COVERING THE SEED WITH WEED FREE STRAW MULCH (NOT HAY), OR EROSION CONTROL BLANKET. THE SOIL SHOULD BE SCARIFIED TO MAXIMUM DEPTH OF 3 INCHES (SEE BELOW). DURING THIS PROCESS, AREAS WHERE COARSE GRAVEL DOMINATES THE SOIL SURFACE SHOULD BE IDENTIFIED AND AMENDED WITH FINE SANDY-SOIL COMMON BORROW GENERATED FROM ON-SITE EARTHWORK. THE IMPORTATION OF TOPSOIL SHOULD BE A LAST RESORT AND ONLY USED AS AN AMENDMENT FOR "LOCALIZED" SPOTS THAT LACK THE CHARACTERISTICS OF A SOIL SEED BED.
- SEED APPLICATION: A WELL-PREPARED SEED BED PROVIDES A LOOSE FRIABLE SOIL SURFACE FOR WHICH THE SEED CAN BE SOWN INTO. SEED APPLICATION IS A TWO-PART PROCESS: 1) SEED APPLICATION AT PROPER RATES PER ACRE AND 2) SOW THE SEED INTO THE SOIL ¼ TO ½" DEPTH MAXIMUM. APPROPRIATE SEED RATES FOR EACH PRESCRIBED SEED MIX ARE SPECIFIED ON THE ACCOMPANYING DETAILS.
 - SEEDING BY HAND: CHECK THE SEED LABEL PRIOR TO OPENING THE BULK BAG TO CONFIRM THE CORRECT SEED IS BEING APPLIED TO THE SPECIFIED LOCATION. THE BULK BAGS OF SEED SHOULD BE AGITATED BY HAND ON SITE TO REDISTRIBUTE THE SEEDS IN THE MATRIX BEFORE SPREADING. IN BARE AREAS A WEED FREE STRAW MULCH MAY BE USED TO COVER THE SOIL SURFACE FOLLOWING THE SEED APPLICATION.
 - SOWING THE SEED: ONCE THE SEED IS SPREAD THE SEED MUST BE SOWN INTO THE SOIL TO THE DEPTH ABOVE TO INCREASE CHANCES OF GERMINATION BY KEEPING SOIL MOISTURE CLOSE TO THE SEED. THE SEED CAN BE SOWN BY A NUMBER OF WAYS INCLUDING "TRACKED" IN WITH A LOW PSI RUBBER TIRE OR TRACKED MACHINE, USING A YORK LANDSCAPE RAKE OR SIMILAR, OR THE TRADITIONAL MEANS OF USING A METAL LEAF RAKE.
- RESEEDING: AREAS TO BE RESEEDED SHALL FOLLOW THE SAME SEEDING SEQUENCE OUTLINED ABOVE. IT IS EXPECTED THAT SOME SEEDING AREAS MAY NOT GERMINATE, BUT THAT OVER TIME THE PLANTED AREAS SHALL FILL IN THROUGH SEED PROLIFERATION AND GROWTH HABITS. AREAS LARGE ENOUGH TO BE IDENTIFIED THROUGH MONITORING AS BEING DOMINATED BY WEEDS OR OTHER INVASIVE SPECIES THAT HAVE OUT COMPETED THE SPECIFIED SEED MIX OR AREAS DEEMED UNSTABLE DUE TO LOW PLANT GROWTH SHALL BE RESEEDED ACCORDINGLY.
- PLANT SUCCESSION NOTES: IT IS POSSIBLE THAT OVER TIME SOME SEEDING AREAS MIGHT BECOME DOMINATED BY NATIVE PLANT SPECIES EXISTING IN THE SOIL SEED BANK. ONE EXAMPLE OF THIS IS THE LIKELIHOOD THAT VARIOUS TYPES OF NATIVE SEDGES NOT INCLUDED IN THE SEED MIX COULD EMERGE IN WETLAND AREAS. ESTABLISHED EXISTING NATIVE SPECIES ARE HIGHLY DESIRABLE BECAUSE THEY ARE PROVEN TO EXIST AND THRIVE IN THE IDENTIFIED PLANTING AREAS AND ADD TO LANDSCAPE DIVERSITY. NATIVE SPECIES THAT EMERGE DUE TO BEING IN THE SOIL SEED BANK SHOULD REMAIN. THOROUGH AND REGULAR MONITORING DURING THE MATURATION OF THE ESTABLISHMENT AREAS IS A KEY COMPONENT TO BALANCING AREAS TO BE RESEEDED AND AREAS WHERE SUCCESSIONAL PLANT GROWTH OF NATIVES SHOULD BE ALLOWED TO THRIVE.

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LEGEND

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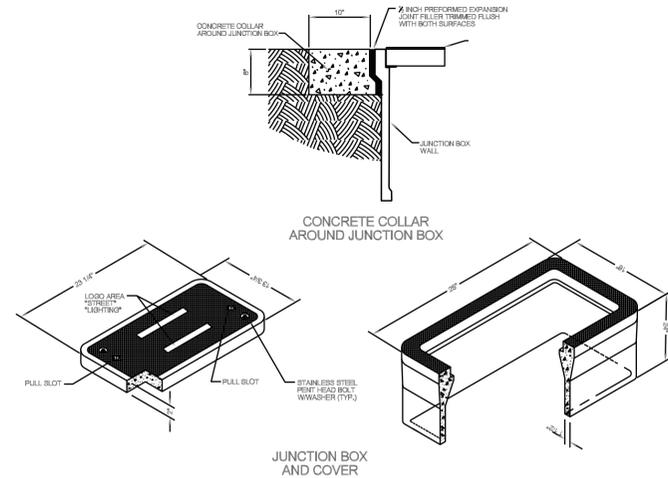
Project Title:
WHITE RIVER RIVERFRONT ENHANCEMENTS
 20 5TH STREET
 MEEKER, CO

Sheet Title:
LANDSCAPE DETAILS AND NOTES

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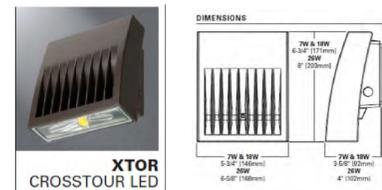
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UNDERGROUND PULL BOXES SHALL BE QUAZITE® AS MANUFACTURED BY STRONGWELL OR APPROVED EQUAL. THE PULL/SPLICE BOX SHALL BE CONSTRUCTED OF POLYMER CONCRETE CONSISTING OF SAND AND AGGREGATE BOUND TOGETHER WITH A POLYMER RESIN. INTERNAL REINFORCEMENT MAY BE PROVIDED BY MEANS OF STEEL, FIBERGLASS, OR A COMBINATION OF THE TWO. BOXES AND COVERS SHALL BE CONCRETE GRAY, AND SUSTAIN A MINIMUM VERTICAL TEST LOAD OF 22,568# OVER A 10 SQUARE IN AREA. BOXES SHALL BE STACKED FOR SPECIFIED DEPTH.

1 BELOW GRADE POLYMER-CONCRETE JUNCTION BOX DETAIL
Scale: NTS



○ WALL MOUNTED LED LUMINAIRE, FULL CUT-OFF HOUSING, CAST ALUMINUM HOUSING, FORWARD THROW, 20 INPUT WATTS, 3500K-4000K NEUTRAL WHITE LIGHT, BRONZE FINISH, SMALL COMPACT HOUSING TO MOUNT AND FIT ON EXISTING WOOD BEAMS (< 8" OVERALL HEIGHT), PROVISIONS FOR SURFACE CONDUIT ENTRY. LUMARK CROSSTOUR-XTOR2A-N OR EQUAL.

7 WALL MOUNTED LIGHT - TYPE C
Scale: NTS

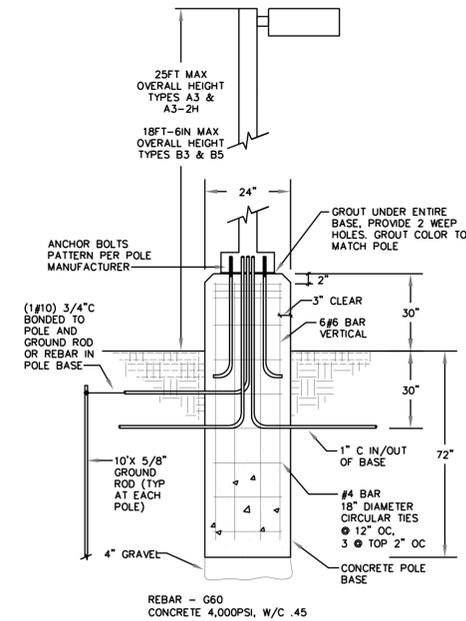


Specifications
EPA: 1.2 ft² (0.11 m²)
Length: 33" (838 mm)
Width: 13" (330 mm)
Height: 7-1/2" (190 mm)
Weight: 27 lbs (12.2 kg) (max)

●○ A3 ○●○ A3-2H
DOUBLE AND SINGLE HEAD PARKING LOT LUMINAIRE, FULL CUT-OFF HOUSING, CAST ALUMINUM HOUSING, TYPE 3S DISTRIBUTION, 60 LED ENGINE, 530mA DRIVER, (100 INPUT WATTS), MOUNTED ON A 2'-6" SQUARE STEEL POLE MOUNTED ON A 2'-6" TALL CONCRETE POLE BASE - 25' O.A.H. (SEE DETAIL). LITHONIA-DSX1LED-60C-530-40K-T3S-120V-SPA-DDBXD; 22'-6" SQUARE STEEL POLE.

●○ B3 & B5
SINGLE HEAD POLE LUMINAIRE, FULL CUT-OFF HOUSING, CAST ALUMINUM HOUSING, TYPE (B3) 3S DISTRIBUTION, TYPE (B5) 5M DISTRIBUTION, 30 LED ENGINE, 530mA DRIVER, (55 INPUT WATTS), MOUNTED ON A 15' SQUARE STEEL POLE MOUNTED ON A 2'-6" TALL CONCRETE POLE BASE - 18'-6" O.A.H. (SEE DETAIL). LITHONIA-DSX1LED-30C-530-40K-5M OR 3S-120V-SPA-DDBXD; 15' SQUARE STEEL POLE.

2 LED POLE LIGHT - TYPE A & B SERIES
Scale: NTS



3 TYPE A & B SERIES LIGHT POLE BASE DETAIL
Scale: NTS

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**RECREATION &
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Meeker, Colorado
 101 UTE ROAD
 MEEKER, CO 81641

LEGEND

Stamp:

Project Title:
**WHITE RIVER
 RIVERFRONT
 ENHANCEMENTS**
 20 5TH STREET
 MEEKER, CO

Sheet Title:
**IRRIGATION DETAILS
 AND NOTES**

Date:	12/11/2020
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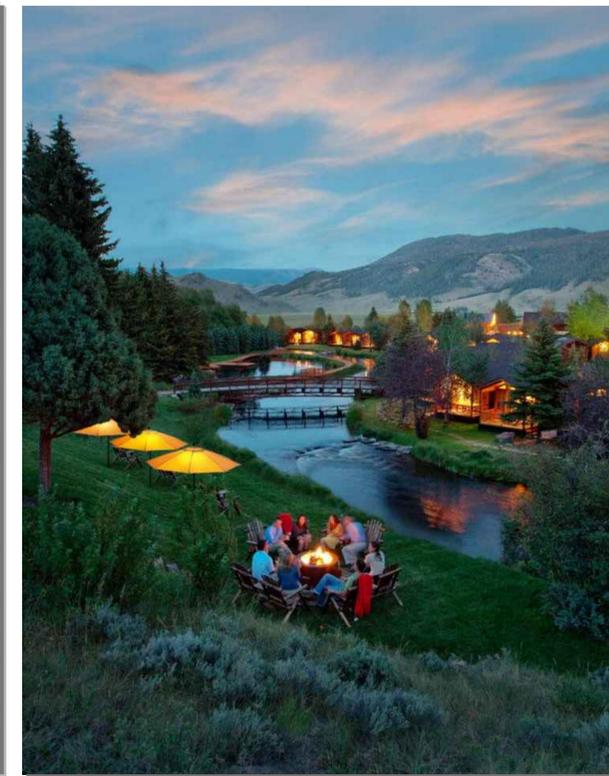
**Know what's below
 Call before you dig.**



Example: Amphitheater Steps



Example: Yampa River Tailwater Rock J-Hook



Example: Flat Creek Rustic-jhook



Example: Water Accessibility Ramp



Example: Water Accessibility Ramp - 2



Example: Water Accessibility Ramp - 3

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Stamp:

Project Title:
**WHITE RIVER
 RIVERFRONT
 ENHANCEMENTS**
 20 5TH STREET
 MEEKER, CO

Sheet Title:
PHOTO EXAMPLES

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SWCA OPINION OF PROBABLE COSTS FOR CIRCLE PARK IMPROVEMENTS: CIRCLE PARK

Item No.	Item Description	Unit	Estimated Quantity	Unit Price	Price
1-1	Permitting	L.S.	1	\$2,000.00	\$2,000.00
1-2	Construction Observation and Stakeout	L.S.	1	\$10,000.00	\$10,000.00
1-3	Mobilization	L.S.	1	\$35,000.00	\$35,000.00
1-4	Remove and Dispose of Cable Fence and Bollards	L.F.	500	\$2.00	\$1,000.00
1-5	Remove and Dispose of Concrete Curb	L.F.	600	\$8.00	\$4,800.00
1-6	Remove and Dispose of Asphalt Paving	S.F.	12,430	\$0.40	\$4,972.00
1-7	Remove and Dispose of Fence	L.F.	665	\$1.00	\$665.00
1-8	Remove and Dispose of Concrete Flatwork	S.F.	0	\$5.00	\$0.00
1-9	Erosion Controls	L.S.	1	\$11,000.00	\$11,000.00
2-1	Curb and Gutter	L.F.	680	\$45.00	\$30,600.00
2-2	Untreated Base Course (Asphalt Areas)	C.Y.	300	\$40.00	\$12,000.00
2-3	Asphalt Pavement	Ton	422	\$150.00	\$63,300.00
2-4	Asphalt Pavement Markings and Striping	L.S.	1	\$2,000.00	\$2,000.00
2-5	Concrete Flatwork (Non-ramp)	S.F.	3,220	\$5.50	\$17,710.00
2-6	Crusher Fines Path	S.F.	2,810	\$6.00	\$16,860.00
2-7	Encapsulated Soil Lift Bank Stabilization	L.F.	410	\$150.00	\$61,500.00
2-8	Stone Steps and Amphitheater	Ton	50	\$300.00	\$15,000.00
2-9	Rip-Rap	C.Y.	3	\$65.00	\$195.00
2-10	Overhead Parking Light	Each	8	\$6,000.00	\$48,000.00
2-11	Stock Tight Fence	L.F.	680	\$5.00	\$3,400.00
2-12	3 Feet x 3 Feet Storm Drain Box	Each	1	\$2,000.00	\$2,000.00
2-13	18 Inch Reinforced Concrete Pipe	L.F.	96	\$80.00	\$7,680.00
2-14	Concrete Accessible Platform	L.S.	1	\$10,000.00	\$10,000.00
2-15	Concrete Accessible Ramp	S.F.	480	\$8.00	\$3,840.00
2-16	Retaining Wall	C.Y.	17	\$700.00	\$11,900.00
2-17	Landscape Installation	L.S.	1	\$40,000.00	\$40,000.00
2-18	Bank and Pollinator Habitat Seeding	S.F.	20,000	\$0.10	\$2,000.00
2-19	Access Gate, 8 Feet	Each	1	\$500.00	\$500.00
2-20	Site Electrical Conduit and Conductor	L.S.	1	\$6,000.00	\$6,000.00
2-21	Park Entry Sign	Each	1	\$800.00	\$800.00
2-22	Portalet	Each	2	\$800.00	\$1,600.00
3-1	Construction Management (~5%)	L.S.	1	\$21,216.10	\$21,216.10
3-2	Contingency (~15%)	L.S.	1	\$63,648.30	\$63,648.30

Total Probable Construction Cost \$ 511,186.40

In providing estimates of probable construction cost, the Client acknowledges that the Consultant has no control over the cost or availability of labor, equipment, materials, market conditions, or the Contractor's method of pricing. The Consultant's estimates of probable construction costs are made on the basis of the consultant's professional judgement and experience. The consultant makes no warranty, express or implied, that the bids or negotiated costs of the work will not vary from the consultant's estimate of probable construction cost.

Item No.	Assumptions
Gen	Estimate to be further refined and updated with each iteration of the design plan
Gen	Estimate does not include irrigation
1-6	Assumes all asphalt will be removed and not resurfaced
1-8	Assumes concrete removal in and around covered shelters will be completed in Phase 1
2-3	Assumes 13,438sf * 5-inch depth suitable for light-duty traffic
2-5	Assumes only the Phase 2 sidewalk areas around the parking and shelter structure
2-9	Assumes minor stabilization of Accessible Ramp slope area
2-9	Prices can vary widely based on location, availability, and rock quality
2-11	Includes one pedestrian gate for river access
2-17	Preliminary cost only. Final estimate will be based on actual plant layout quantities
2-18	Based on Pheasants Forever CO PF CRP CP42 Preferred Pollinator mix. Assumes pond area installation during Phase 1 final grading

SWCA OPINION OF PROBABLE COSTS FOR CIRCLE PARK IMPROVEMENTS: IN-RIVER

Item No.	Item Description	Unit	Estimated Quantity	Unit Price	Price
1-1	Permitting	L.S.	1	\$12,000.00	\$12,000.00
1-2	Construction Observation and Stakeout	L.S.	1	\$10,000.00	\$10,000.00
1-3	Construction Surveying	L.S.	1	\$10,000.00	\$10,000.00
1-4	Mobilization	L.S.	1	\$20,000.00	\$20,000.00
1-5	Erosion Controls	L.S.	1	\$6,000.00	\$6,000.00
2-1	Un-Improved Temporary Construction Access Road (~500 Ft)	L.S.	1	\$2,500.00	\$2,500.00
2-2	Grading Cut Sta (~5,200 Yds)	L.S.	1	\$39,000.00	\$39,000.00
2-3	Grading Fill Haul Distance (50-200 Ft) (~5,200 Yds)	L.S.	1	\$39,000.00	\$39,000.00
2-4	Clearing and Grubbing (As directed by Owner or onsite Engineer)	Acre	0.15	\$2,000.00	\$300.00
2-5	Bank Stabilization Structure: Rock J-Hook @ 230Tons/Structure (2-3 Ton Boulders ~3.5 Ft Diameter)	Each	2	\$35,000.00	\$70,000.00
2-6	Toe Wood (12 Ft by 4 Ft)	L.F.	100	\$150.00	\$15,000.00
2-7	Transplants for Revegetation from Mid-Channel Bar	Acre	0.15	\$5,000.00	\$750.00
3-1	Construction Management (~5%)	L.S.	1	\$10,627.50	\$10,627.50
3-2	Contingency (~15%)	L.S.	1	\$31,882.50	\$31,882.50
Total Probable Construction Cost				\$ 267,060.00	

In providing estimates of probable construction cost, the Client acknowledges that the Consultant has no control over the cost or availability of labor, equipment, materials, market conditions, or the Contractor's method of pricing. The Consultant's estimates of probable construction costs are made on the basis of the consultant's professional judgement and experience. The consultant makes no warranty, express or implied, that the bids or negotiated costs of the work will not vary from the consultant's estimate of probable construction cost.

SWCA OPINION OF PROBABLE COSTS FOR CIRCLE PARK IMPROVEMENTS: 3RD STREET

Item No.	Item Description	Unit	Estimated Quantity	Unit Price	Price
1-1	Permitting	L.S.	1	\$5,000.00	\$5,000.00
1-2	Mobilization	L.S.	1	\$6,000.00	\$6,000.00
1-3	Erosion Controls	L.S.	1	\$1,500.00	\$1,500.00
2-1	Curb and Gutter	L.F.	160	\$45.00	\$7,200.00
2-2	Untreated Base Course (Asphalt Areas)	C.Y.	14	\$40.00	\$540.00
2-3	Asphalt Pavement	Ton	27	\$150.00	\$4,050.00
2-4	Asphalt Pavement Markings and Striping	L.S.	1	\$1,000.00	\$1,000.00
2-5	Crusher Fines Path	S.F.	385	\$6.00	\$2,310.00
2-6	Encapsulated Soil Lift Bank Stabilization	L.F.	140	\$150.00	\$21,000.00
2-7	Rip-Rap	C.Y.	6	\$65.00	\$390.00
2-8	Concrete Accessible Ramp	S.F.	310	\$8.00	\$2,480.00
2-9	Landscape Installation	L.S.	1	\$10,000.00	\$10,000.00
2-10	Mulch (Open Area)	S.F.	2,440	\$0.40	\$976.00
2-11	Bank and Pollinator Habitat Seeding	S.F.	5,175	\$0.10	\$517.50
2-12	Board-on-Board Fence	L.F.	100	\$12.00	\$1,200.00
3-1	Construction Management (~5%)	L.S.	1	\$2,958.18	\$2,958.18
3-2	Contingency (~15%)	L.S.	1	\$8,874.53	\$8,874.53

Total Probable Construction Cost \$ 75,996.20

In providing estimates of probable construction cost, the Client acknowledges that the Consultant has no control over the cost or availability of labor, equipment, materials, market conditions, or the Contractor's method of pricing. The Consultant's estimates of probable construction costs are made on the basis of the consultant's professional judgement and experience. The consultant makes no warranty, express or implied, that the bids or negotiated costs of the work will not vary from the consultant's estimate of probable construction cost.

Item No.	Assumptions
Gen	Estimate to be further refined and updated with each iteration of the design plan
2-3	Assumes 860sf of new asphalt * 5-inch depth suitable for light-duty traffic
2-6	Assumes full soil lift stabilization within seeding area
2-7	Prices can vary widely based on location, availability, and rock quality
2-9	Preliminary cost only. Final estimate will be based on actual plant layout quantities
2-10	Includes recommended weed fabric underlayment
2-11	Based on Pheasants Forever CO PF CRP CP42 Preferred Pollinator mix
2-12	Includes one pedestrian gate for adjacent residential access

SWCA OPINION OF PROBABLE COSTS FOR CIRCLE PARK IMPROVEMENTS: 10TH STREET

Item No.	Item Description	Unit	Estimated Quantity	Unit Price	Price
1-1	Permitting	L.S.	1	\$5,000.00	\$5,000.00
1-2	Mobilization	L.S.	1	\$2,000.00	\$2,000.00
1-3	Erosion Controls	L.S.	1	\$900.00	\$900.00
2-1	Gravel Parking Area	S.F.	1,400	\$6.00	\$8,400.00
2-2	Crusher Fines Path	S.F.	710	\$6.00	\$4,260.00
2-3	Rip-Rap	C.Y.	4	\$65.00	\$227.50
2-4	Stone Steps	Ton	4	\$300.00	\$1,200.00
3-1	Construction Management (~5%)	L.S.	1	\$849.38	\$849.38
3-2	Contingency (~15%)	L.S.	1	\$2,548.13	\$2,548.13
Total Probable Construction Cost					\$ 25,385.00

In providing estimates of probable construction cost, the Client acknowledges that the Consultant has no control over the cost or availability of labor, equipment, materials, market conditions, or the Contractor's method of pricing. The Consultant's estimates of probable construction costs are made on the basis of the consultant's professional judgement and experience. The consultant makes no warranty, express or implied, that the bids or negotiated costs of the work will not vary from the consultant's estimate of probable construction cost.

Item No.	Assumptions
Gen	Estimate to be further refined and updated with each iteration of the design plan
2-2	Estimate does not include adjacent paths to Water Street or 8th Street
2-3	Prices can vary widely based on location, availability, and rock quality