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SWCA ENVIRONMENTAL CONSULTANTS

SWCA Environmental Consultants

1063 W Horsetooth Rd
Building B, Suite 200
Fort Collins, CO 80526
(p)970.237.4096
www.swca.com

Prepared for:

EAGLE RECREATION & PARK DISTRICT
Meeker, Colorado

101 UTE ROAD
MEEKER, CO 81641

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'

0 15 30 60

Stamp:

Project Title:

WHITE RIVER RIVERFRONT ENHANCEMENTS

20 5TH STREET
MEEKER, CO

Sheet Title:

LANDSCAPE PLAN

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(p)970.237.4096
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LEGEND

- LANDSCAPE SCREENING AREA
- SLOPE STABILIZATION AND RESEEDING AREA
- MULCH OPEN SPACE AREA
- CRUSHER FINES PATH
- CONCRETE SIDEWALK AND RAMP
- ARMORED CONVEYANCE SWALE
- PEDESTRIAN CROSSING STRIPPING
- BOARD-ON-BOARD PRIVACY FENCE

ANSI D (22"x34") SCALE: 1"=20'
TABLOID (11"x17") SCALE: 1"=40'

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WHITE RIVER
RIVERFRONT
ENHANCEMENTS

20 5TH STREET
MEEKER, CO

Sheet Title:

3RD STREET
PROPOSED CONCEPTUAL
ENHANCEMENTS

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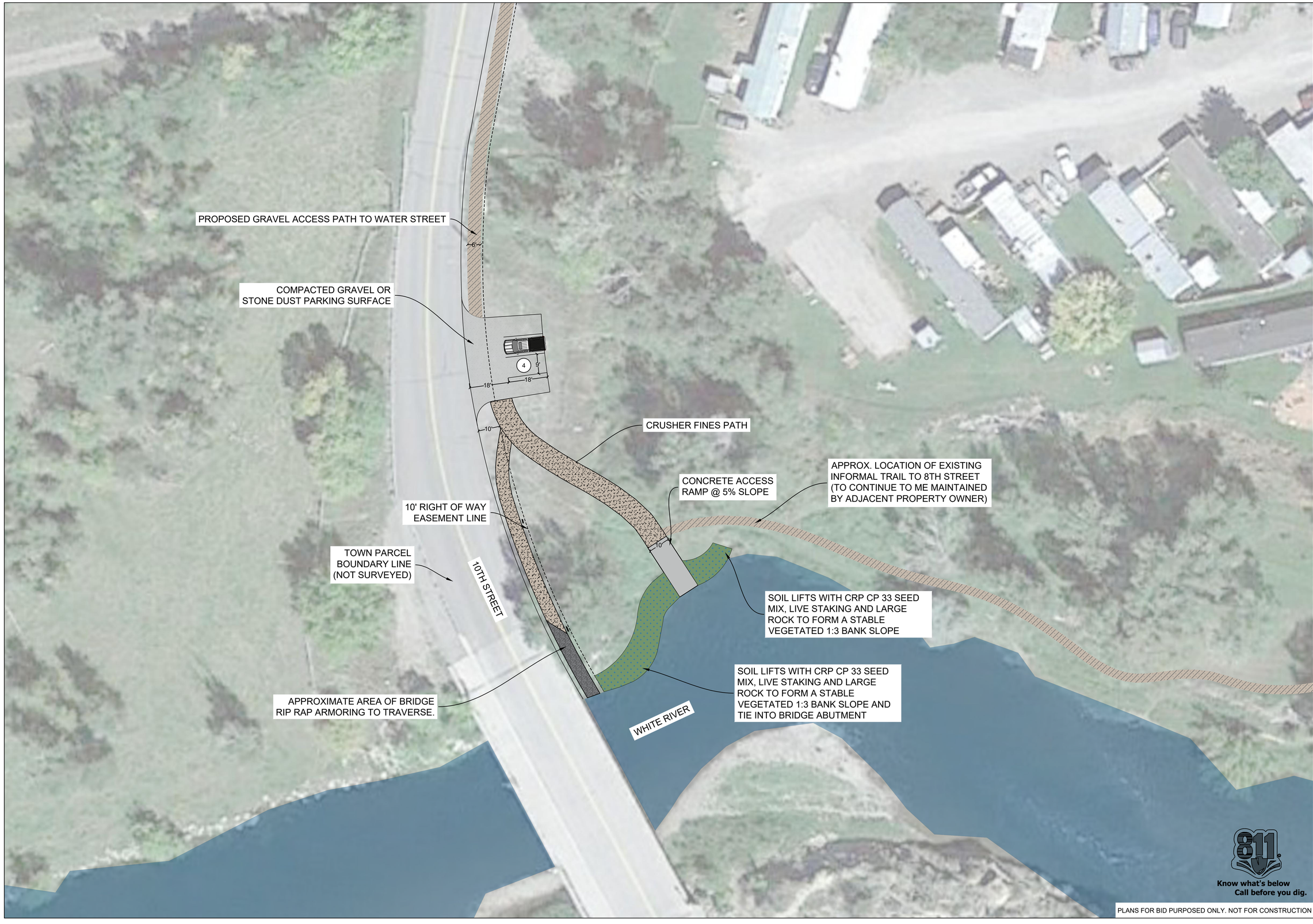

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LEGEND

- PROPERTY LINE
- 10TH STREET RIGHT-OF-WAY
- COMPACTED GRAVEL PARKING
- COMPACTED GRAVEL PATH
- RIPRAP STREAM BANK STABILIZATION
- ADJACENT PATHS TO WATER ST AND 8TH STREET (NO ACTION PROPOSED)

ANSI D (22"x34") SCALE: 1"=20'
TABLOID (11"x17") SCALE: 1"=40'

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WHITE RIVER
RIVERFRONT
ENHANCEMENTS

20 5TH STREET
MEEKER, CO

Sheet Title:

10TH STREET
PROPOSED CONCEPTUAL
ENHANCEMENTS

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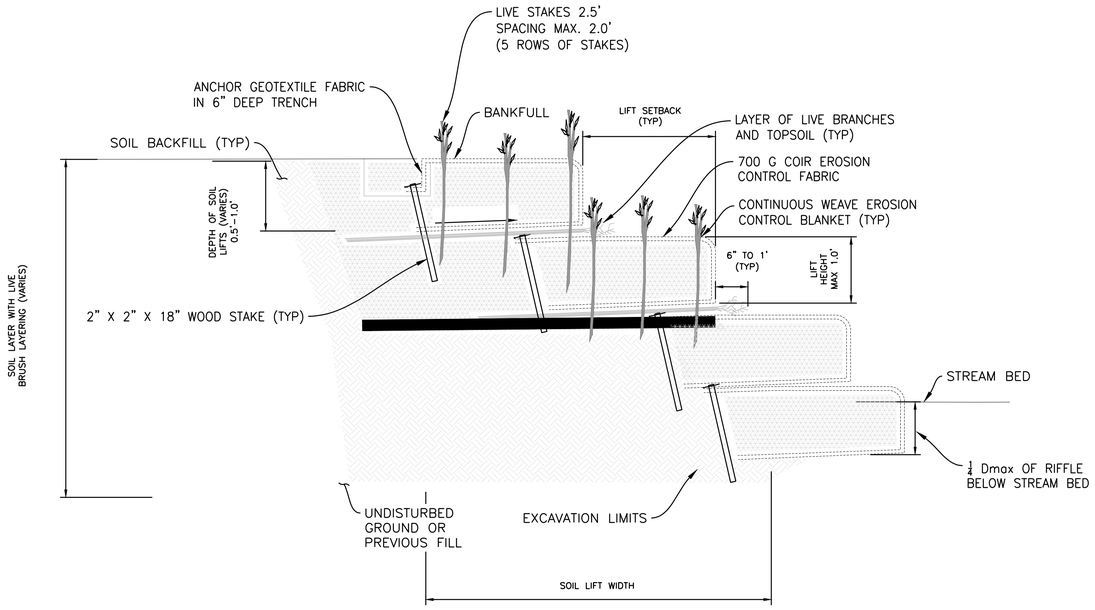

NOTES:

1. 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.
2. 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.
3. THE TOP OF THE BACKFILL FOR THE FIRST LIFT SHALL BE SLOPED AT APPROXIMATELY 5% AWAY FROM THE STREAM.
4. 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 REMAINDER (2' TO 4') OF EACH LIVE BRANCH WILL BE COVERED BY THE NEXT SOIL LIFT.
5. LIVE BRANCHES SHALL BE OF THE SPECIES SPECIFIED FOR LIVE STAKES OR APPROVED BY THE ENGINEER AND SHALL EXCLUDE INVASIVE SPECIES.
6. PLACE A LAYER OF 6.5 FEET WIDE GEOCOIR DEKOWE 700 EROSION CONTROL BLANKET, OR EQUIVALENT, ON TOP OF THE TOPSOIL AND LIVE BRANCHES SUCH THAT 2.5 FEET OF THE BLANKET WILL BE BURIED BELOW THE NEXT SOIL LIFT. ALLOW THE REMAINING 4.0 FEET OF BLANKET TO HANG OVER THE PRECEDING SOIL LIFT OR COIR FIBER LOGS.
7. PLACE A LAYER OF 6.5 FEET WIDE NON-WOVEN COIR MATTING OVER THE EROSION CONTROL BLANKET TO THE SAME LIMITS.
8. SOIL CAN BE COMPACTED BY STACKING A PIECE OF 2 X 6 SAWN LUMBER EDGEWAYS UP TO THE LIFT HEIGHT SPECIFIED IN THE STRUCTURE TABLE AND SECURING WITH WOODEN STAKES TO PROVIDE A RIGID BACKSTOP FOR COMPACTING SOIL LIFT.
9. PLACE SOIL BACKFILL UP TO THE LIFT HEIGHT SPECIFIED OF NO GREATER THAN 1.0 FT BEING CAREFUL NOT TO PUSH/PULL OR TEAR THE FABRIC PREVIOUSLY PLACED.
10. THE TOP OF THE SOIL BACKFILL SHALL BE FLAT WITHIN THE LIFT SETBACK DISTANCE SPECIFIED IN THE STRUCTURE TABLE. BEYOND THE LIFT SETBACK DISTANCE, THE SOIL BACKFILL SHALL BE SLOPED AT AN APPROXIMATE 5% SLOPE AWAY FROM THE STREAM.
11. TOP DRESS THE SOIL LIFT WITH TOPSOIL FROM THE FACE OF THE SOIL LIFT BACK INTO THE FLOODPLAIN AT LEAST 4FT.
12. REMOVE THE SAWN LUMBER AND WOODEN STAKES FROM THE FACE OF THE SOIL LIFT AND WRAP THE FACE AND TOP OF THE SOIL LIFT USING THE WOVEN AND NON-WOVEN COIR MATTING HANGING OVER THE PREVIOUS LIFT/COIR FIBER LOGS.
13. THE EROSION CONTROL FABRIC SHALL BE PULLED AS TIGHT AS POSSIBLE WITHOUT TEARING OR EXCESSIVELY DISTORTING THE FABRIC.
14. SECURE THE EROSION CONTROL AND NON-WOVEN MATTING IN PLACE BY STAKING THE END OF THE EROSION CONTROL FABRIC WITH WOODEN STAKES ON 1.5-FOOT CENTERS.
15. BEGIN CONSTRUCTION OF THE NEXT SOIL LIFT BY REPEATING THE PREVIOUS NOTES STARTING WITH NOTE 6.
16. THE OVERALL SLOPE CREATED BY THE LIVE BRUSH LAYERING SHALL MATCH THE PROPOSED CROSS SECTION SHAPE FOR THE OUTER BANK OF THE THE TYPICAL POOL CROSS-SECTION FOR EACH REACH.
17. THE COIR BLANKETS AND GEOTEXTILE FABRIC USED FOR THE UPPER MOST SOIL LIFT WILL BE SECURED WITHIN A 6 INCH DEEP TRENCH AS SHOWN IN DETAIL.
18. THE SURFACE OF THIS STRUCTURE SHALL BE FINISHED TO A SMOOTH AND COMPACT SURFACE IN ACCORDANCE WITH THE LINES, GRADES, AND CROSS-SECTIONS OR ELEVATIONS SHOWN ON THE DRAWINGS. THE DEGREE OF FINISH FOR ELEVATIONS SHALL BE WITHIN 0.1 FT OF THE GRADES AND ELEVATIONS INDICATED OR APPROVED BY THE ENGINEER.
19. RE-DRESSING OF CHANNEL AND BANKFULL BENCH/FLOODPLAIN WILL LIKELY BE REQUIRED FOLLOWING INSTALLATION OF IN-STREAM STRUCTURES AND SHALL BE CONSIDERED INCIDENTAL TO CONSTRUCTION.
20. THE LOWER BANK STABILIZATION IS CRITICAL TO THE DESIGN INTENT OF THIS PROJECT. VARIANCE FROM SOIL LIFT STABILIZATION WILL ONLY BE CONSIDERED IF SUITABLE FILL MATERIAL IS NOT AVAILABLE ONSITE.

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20 5TH STREET
MEEKER, CO

Sheet Title:
SOIL LIFT

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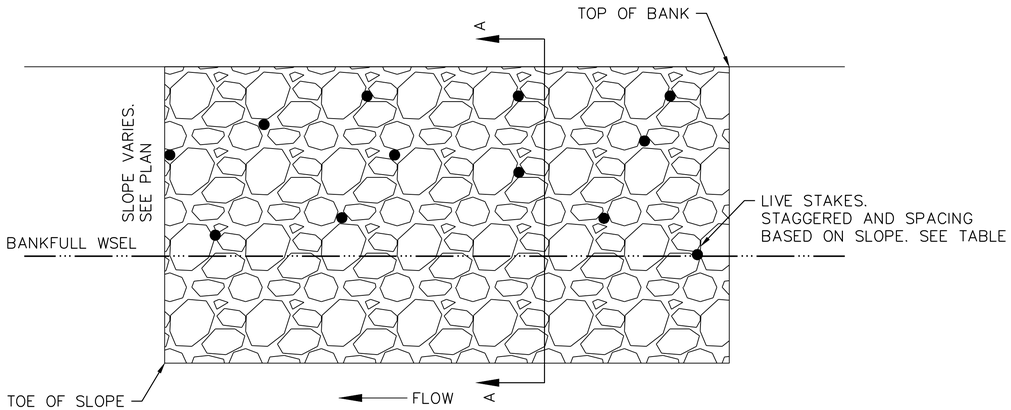
PLAN–SYMBOL



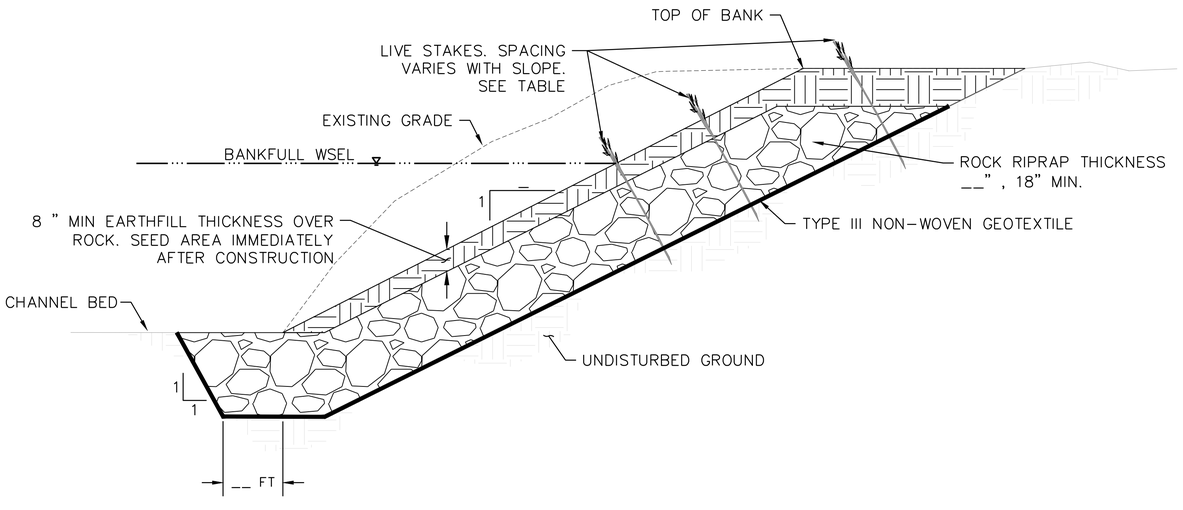
PLAN VIEW

NOTES

1. VEGETATED RIPRAP IS A BANK STABILIZATION PRACTICE THAT PROTECTS A STREAMBANK FROM EROSION, REDUCES LOCAL FLOW VELOCITIES, TRAPS SEDIMENT DURING HIGH FLOWS, AND ENHANCES THE ESTABLISHMENT AND GROWTH OF NATIVE VEGETATION USING LIVE BRANCHES AND CUTTINGS ANCHORED TO THE SLOPES.
2. RIPRAP SHALL BE KEYED INTO THE STREAM BED TO AN ELEVATION BELOW THE COMPUTED SCOUR DEPTH TO AVOID UNDERMINING AT THE TOE OF SLOPE.
3. LIVE STAKES SHALL BE IN CONTACT WITH THE SOIL BELOW THE RIPRAP AND ANY GEOTEXTILE PRESENT BELOW THE RIPRAP A MINIMUM OF 12 INCHES, PLANTING OF CUTTINGS DURING THE DORMANT SEASON OF THE PLANT SPECIES PREFERRED.
4. LIVE STAKES SHALL BE 0.5 INCHES TO 2 INCHES IN DIAMETER AND GENERALLY 3 FEET LONG WITH SIDE BRANCHES CLEARLY REMOVED.
5. THE BOTTOM (BASAL) END OF LIVE STAKES SHALL BE CLEANLY CUT AT A 45 DEGREE ANGLE. THE TOP OF ALL LIVE STAKES SHALL BE CUT SQUARE (FLAT). ALL PLANTINGS SHALL BE INSTALLED PERPENDICULAR TO THE SLOPE.
6. LIVE STAKES FOR VEGETATED RIPRAP MAY BE INSTALLED THE DAY THEY ARE HARVESTED IF WATERED. SOAKING FOR A MINIMUM 24 HOURS IS REQUIRED WHEN PLANTING IS DELAYED.
7. AT LEAST TWO BUDS OR BUD SCARS SHALL BE PRESENT ON THE STAKE WHEN PLANTED.
8. VOIDS IN RIPRAP WHERE LIVE STAKES ARE SHALL BE BACKFILLED WITH A WATER AND SOIL SLURRY MIXTURE TO A MINIMUM DEPTH OF HALF THE RIPRAP LAYER THICKNESS.
9. OTHER VARIATIONS MAY BE USED SUCH AS RIPRAP WITH BRUSH LAYERING AND POLE PLANTING, BENT POLE (HORIZONTAL) METHOD, OR WILLOW BUNDLE METHOD.

LIVE STAKE SPACING TABLE	
SLOPE H:V	SPACING ON–CENTER IN FEET
1.5:1	1.5 TO 2.5
2:1	1.5 TO 3
3:1	3 TO 5
FLATTER	AS DIRECTED BY ENGINEER

GRADATION OF ROCK RIPRAP		
PERCENT PASSING	DESIGN ENVELOPE SIZE	SIZE (INCHES)
100	1.5(D50)–2.0(D50)	18–24
85	1.3(D50)–1.8(D50)	16–22
50	1.0(D50)–1.5(D50)	12–18
15	0.3(D50)–0.5(D50)	4–6



SECTION A–A

DETAIL – VEGETATED RIPRAP
NOT TO SCALE

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VEGETATED RIPRAP

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