

Information for: File # 2013-01786-RQM

Applicant: City of Princeton
Corps Contact: Robert Maroney
Address: 10867 East Gull Lake Drive NW Brainerd, Minnesota 56401
E-Mail: robert.q.maroney@usace.army.mil
Phone: (651) 290-5766
Primary County: Mille Lacs, Minnesota
Legal Description: NW ¼ Sections 27, Township 36 North, Range 26 West
Complete On: 26 July 2013
Posting Expires On: 7 August 2013
Authorization Type: LOP-05-MN

This application is being reviewed in accordance with the practices for documenting Corps jurisdiction under Sections 9 & 10 of the Rivers and Harbor Act of 1899 and Section 404 of the Clean Water Act identified in Regulatory Guidance Letter 07-01. We have made a preliminary determination that the aquatic resources that would be impacted by the proposed project are regulated by the Corps of Engineers under Section 404 of the Clean Water Act. Our jurisdictional review and final jurisdictional determination could result in modifications to the scope of the project's regulated water body and/or wetland impacts and compensatory mitigation requirements identified above. Approved jurisdictional determinations are posted on the St. Paul District web page at <http://www.mvp.usace.army.mil/>.

Project:

PROJECT DESCRIPTION AND PURPOSE:

The proposed project is to stabilize the banks of the Rum River in two locations. The project would disturb approximately 950 lineal feet of the Rum River and would include approximately 4,400 square feet of fill placed into the Rum River. The applicant is proposing to stabilize the stream bank slopes with native tree plantings and tree revetments. The project would include bank shaping and the installation of logjam structures for water velocity control.

WATERS OF THE UNITED STATES SUBJECT TO LOSS:

The proposal would place fill material in approximately 950 lineal feet of the Rum River and would include approximately 4,400 square feet of fill placed in the Rum River.

ALTERNATIVES CONSIDERED:

Project Alternatives

Alternative A: No Build

The stream bank at each site would continue to erode in its current condition. As a result, downstream water quality would continue to degrade. Therefore, this option was not deemed feasible.

Alternative B: Rip-Rap Bank stabilization

This alternative would consist of hard armoring both sites with rip-rap or cable concrete. Although this alternative would reduce temporary watercourse impacts, the alternative would not provide riparian habitat or be aesthetically preferred in these areas. This option was not chosen due to increased material costs and the preferred soft-engineering practices, as proposed in the chosen alternative.

Applicant Preferred Alternative:

This project proposes stream stabilization measures to address erosion problems and reduce phosphorus loads on the Rum River. The proposed improvements would include excavation and stabilization activities above and below the surveyed water level of 954 feet. The proposed activities include reshaping of the stream bank above 954 feet and installation of specific “soft” engineering stabilization measures below 945 feet. The designed stabilization measures for the proposed project would include the following:

1. “Benched” shaping of slopes to support native vegetation growth;
2. installation of a variety of bank stabilization measures, including tree revetments, live & dead stakes, live fascines, and erosion control blankets, and;
3. installation of stream velocity reduction measures, include installing tree logjams at 30 degrees upstream from the bank.

The proposed stabilization measures were chosen based on commonly used and accepted techniques to meet the stabilization objective(s) at each site.

COMPENSATORY MITIGATION:

Because this project is stream bank stabilization proposed with native plantings no mitigation would be required.

Drawings See attached.

PLAN SYMBOLS

- STATE LINE
- COUNTY LINE
- TOWNSHIP OR RANGE LINE
- SECTION LINE
- QUARTER LINE
- SIXTEENTH LINE
- RIGHT-OF-WAY LINE
- SLOPE EASEMENT
- PRESENT RIGHT-OF-WAY
- CONTROL OF ACCESS LINE
- PROPERTY LINES (EXCEPT LAND LINES)
- VACATED PLATTED PROPERTY
- CORPORATE OR CITY LIMITS
- TRUNK HIGHWAY CENTER LINE
- RETAINING WALL
- RAILROAD
- RAILROAD RIGHT-OF-WAY
- RIVER OR CREEK
- DRY RUN
- DRAINAGE DITCH
- GRASS TILE
- CULVERT
- DROP INLET
- GUARD RAIL
- BARBED WIRE FENCE
- WOODEN WIRE FENCE
- CHAIN LINK FENCE
- RAILROAD SHOW FENCE
- STONE WALL OR FENCE
- HEEDGE
- RAILROAD CROSSING SIGN
- RAILROAD CROSSING BELL
- ELECTRIC WARNING SIGN
- CROSSING GATE
- MEANDER CORNER
- SPRINGS
- WASH
- TIMBER
- ORCHARD
- BRUSH
- NURSERY
- CATCH BASIN
- FIRE HYDRANT
- CATTLE GUARD
- OVERPASS (HIGHWAY OVER)
- UNDERPASS (HIGHWAY UNDER)
- BRIDGE
- BUILDING (ONE STORY FRAME)
- F - FRAME C - CONCRETE
- S - STONE T - TILE
- B - BRICK ST - STUCCO
- IRON ROD OR PIPE
- MONUMENT (STONE, CONCRETE, OR METAL)
- WOODEN HUB
- PROFILE P.V.I.
- GRAVEL PIT
- SAND PIT
- BORROW PIT
- ROCK QUARRY

UTILITY SYMBOLS

- POWER POLE LINE
- TELEPHONE OR TELEGRAPH POLE LINE
- JOINT TELEPHONE AND POWER ON POWER POLE
- ON TELEPHONE POLES
- ANCHOR
- STREET LIGHT
- FEDERAL (TELEPHONE CABLE TERMINAL)
- GAS MAIN
- WATER MAIN
- CONDUIT
- TELEPHONE CABLE IN CONDUIT
- ELECTRIC CABLE IN CONDUIT
- TELEPHONE MANHOLE
- ELECTRIC MANHOLE
- BURIED TELEPHONE CABLE
- BURIED ELECTRIC CABLE
- AERIAL TELEPHONE CABLE
- SEWER (SANITARY OR STORM)
- SEWER MANHOLE

SCALES



2013 STREAMBANK STABILIZATION PROJECT FOR THE CITY OF PRINCETON, MN.

CONSTRUCTION PLAN FOR ISD. 476 AND ABNEY RECYCLING, INC. SITES
LOCATED ON RUM RIVER



THE SUBSURFACE UTILITY INFORMATION SHOWN ON THESE DRAWINGS CONCERNING TYPE AND LOCATION OF PRIVATE AND PUBLIC UTILITIES HAS BEEN DESIGNATED UTILITY LEVEL D. THESE QUALITY LEVELS WERE DETERMINED ACCORDING TO THE GUIDELINES OF CI/ASCE 38-02, ENTITLED "STANDARD GUIDELINES FOR THE COLLECTION AND DEPICTION OF EXISTING SUBSURFACE DATA". THE CONTRACTOR IS TO DETERMINE THE TYPE AND LOCATION OF PRIVATE UTILITIES AS MAY BE DEEMED NECESSARY TO AVOID DAMAGE THERETO.

EXCAVATION NOTICE SYSTEM

A CALL TO GOPHER STATE ONE (651-454-0002) IS REQUIRED A MINIMUM OF 48 HOURS PRIOR TO PERFORMING ANY EXCAVATION.

DRAWER:
DWG. NO.

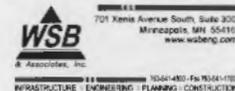
GOVERNING SPECIFICATIONS

THE 2005 EDITION OF THE MINNESOTA DEPARTMENT OF TRANSPORTATION "STANDARD SPECIFICATIONS FOR HIGHWAY CONSTRUCTION" SHALL GOVERN.
ALL TRAFFIC CONTROL DEVICES AND SIGNING SHALL CONFORM TO THE MN MUTCD INCLUDING THE FIELD MANUAL FOR TEMPORARY TRAFFIC CONTROL ZONE LAYOUTS, ALL TRAFFIC CONTROL DEVICES SHALL HAVE RETROREFLECTIVE SHEETING.

INDEX

SHEET NO.	DESCRIPTION
SHEET 1	TITLE SHEET
SHEET 2-4	GENERAL NOTES, DETAILS, EROSION CONTROL
SHEETS 5-6	SITE ACCESS AND QUANTITIES
SHEET 7-8	STREAMBANK STABILIZATION
SHEETS 9-10	SWPPP PLAN

ALL APPLICABLE FEDERAL, STATE, AND LOCAL LAWS AND ORDINANCES WILL BE COMPLIED WITH IN THE CONSTRUCTION OF THIS PROJECT.



I HEREBY CERTIFY THAT THIS PLAN WAS PREPARED BY ME OR UNDER MY DIRECT SUPERVISION AND THAT I AM A DULY LICENSED PROFESSIONAL ENGINEER UNDER THE LAWS OF THE STATE OF MINNESOTA.

ENGR. TODD E. HUBNER
DATE February 2013 U.C. NO. 24043

Prepared for:

City of Princeton
705 Second Street North
Princeton, Minnesota 55371
(763) 389-2040

SHEET NO. 1 OF 10 SHEETS

SPECIAL NOTE

THE PRINCETON 2013 STREAMBANK STABILIZATION PROJECT IS A BUILD-IN-THE-FIELD PROJECT. THE RESTORATION WORK TO BE COMPLETED ALONG THE RUM RIVER AND ITS WEST BRANCH TRIBUTARY WILL BE DIRECTED, IN THE FIELD, BY THE CONSTRUCTION OBSERVER INCLUDING INDIVIDUAL SITE ACCESS, USAGE OF EQUIPMENT, TREE REMOVALS, IMPLEMENTATION OF EROSION AND SEDIMENT CONTROL, MANAGEMENT PRACTICES, SITE RESTORATION, TURF ESTABLISHMENT, AND THE PLACEMENT OF THE PROPOSED IMPROVEMENTS.

SEQUENCING OF PROPOSED IMPROVEMENTS

1. PROVIDE TRAFFIC CONTROL SIGNS AS NEEDED INCIDENTAL
2. INSTALL ROCK CONSTRUCTION ENTRANCE, SILT FENCE AND SILT CURTAIN
3. ESTABLISH CONSTRUCTION ACCESS ROAD
4. CLEAR AND GRUB AS MARKED IN THE FIELD AND AS DIRECTED BY ENGINEER
5. PLACE TREE AND BRUSH REVETMENT PER PLANS
6. PLACE FACINES AND PLANTINGS
7. TIP TREES UPSTREAM OF EMBANKMENT PROJECT
8. SHAPE AND GRADE EMBANKMENT PER PLANS
9. SEED DISTURBED EMBANKMENT AND PLACE JUTE BLANKET
10. REMOVE SILT CURTAIN, SILT FENCE AND ROCK CONSTRUCTION ENTRANCE AFTER FINAL STABILIZATION IS ACHIEVED.

Construction Notes

1. Seed and mulch all disturbed areas, not blanketed.
2. See recommendations for seeding and mulching in construction specification MN-6. Disturbed areas to be seeded prior to blanket placement. The native seed has special seeding directives.
3. landowner is responsible for obtaining all necessary easements and/or permits prior to the start of any construction.
4. Governing specifications - the construction and material specifications prepared for this project shall govern. These specifications are part of the plan.
5. The excavated material may be used to fill in between brush layers to fill voids.
6. Pollution control - the contractor shall utilize diversions, silt fences, and other effective BMP's as necessary to control erosion and/or sediment transport. No water which transports sediment resulting from earth moving or other construction activities shall be permitted to discharge into the waters of the State of Minnesota, or beyond the construction limits of the project. Floating silt fence is required in open water.
7. Erosion control - the contractor shall have on site or in close proximity, 20 small bales 100'x20' sheet of plastic and 1 bag of oats. If incimate weather or is forecasted during construction, the contractor and inspector shall determine the appropriate erosion control measures to be taken.
8. Topsoil excavated from top of slope areas, shall be used as topsoil for the terraced area. Those areas with soil fill shall be seeded with cover crop immediately. If construction is completed after September 5th, special mulching procedures shall be approved by the engineer.
9. Other areas disturbed by construction activities shall be blanketed or mulched, except after September 5th where blanket is required. No other exposed soil areas are planned except as noted above and shall be the responsibility of the contractor as part of the construction erosion control job.
10. Salvage and maintain existing fallen trees on bank. Reposition and secure to bank (16 planned).
11. Trees tipped into the river shall mimic trees fallen into river naturally. The trees shall be pushed over so the top of tree branches are pointed upstream, approximately 30 degrees from bank.
12. Construction is limited to one site at a time. Contractor must stabilize site and have all erosion control BMP's in place before moving to another site.
13. Construction at the Princeton Middle School site (Site 2) cannot begin until the school is out of session for the summer (June 1, 2013).

EROSION AND SEDIMENT CONTROL NOTES

1. EROSION CONTROL BLANKET SHALL BE ORGANIC NET STRAW AND COCONUT BLANKET SC150BN PRODUCED BY NORTH AMERICAN GREEN OR ENGINEER-APPROVED EQUAL.
2. SEE SPECIFICATIONS FOR SEEDING DATES AND REAPPLICATION RATES.
3. ALL DISTURBED AREAS MUST BE TEMPORARILY OR PERMANENTLY STABILIZED WITHIN 24 HOURS PRIOR TO A FORECASTED 20% OR GREATER RAINFALL EVENT, SEE SWPPP AND SPECIFICATIONS.
4. CONTRACTOR IS RESPONSIBLE TO LOCATE AND FIELD VERIFY ALL EXISTING UTILITIES PRIOR TO WORK.
5. ROADS, PARKING LOTS, TRAILS, FENCES, SIGNS AND ALL OTHER ASSOCIATED AND EXISTING SITE FEATURES SHALL BE PROTECTED DURING CONSTRUCTION. CONTRACTOR RESPONSIBLE FOR REPAIRING ALL DAMAGE CAUSED.
6. CONTRACTOR SHALL INSTALL ALL SEDIMENT CONTROL BMP'S PRIOR TO COMMENCEMENT OF GRADING FOR EACH PHASE OF CONSTRUCTION. ALL GROUND DISTURBANCE GENERATED BY GRADING ACTIVITIES SHALL BE STABILIZED AND RESTORED BY FINISH GRADING WITH EXISTING TOPSOIL, APPLYING NATIVE SEED W/COVER CROP AND EROSION CONTROL BLANKET.
7. ALL AREAS DISTURBED TO GAIN ACCESS TO MAINTENANCE AREAS SHALL BE RE-STABILIZED AND WILL BE CONSIDERED INCIDENTAL TO THE PROJECT.

RESTORATION SEEDING SPECIFICATIONS:

ACCESS SHALL BE GAINED TO PROJECT SITES THROUGH CITY OWNED PROPERTY, PUBLIC RIGHT OF WAY OR ACCESS EASEMENTS. ALL AREAS DISTURBED TO GAIN ACCESS TO PROJECT SITES SHALL BE RE-STABILIZED WITH AND WILL BE CONSIDERED INCIDENTAL TO THE PROJECT:

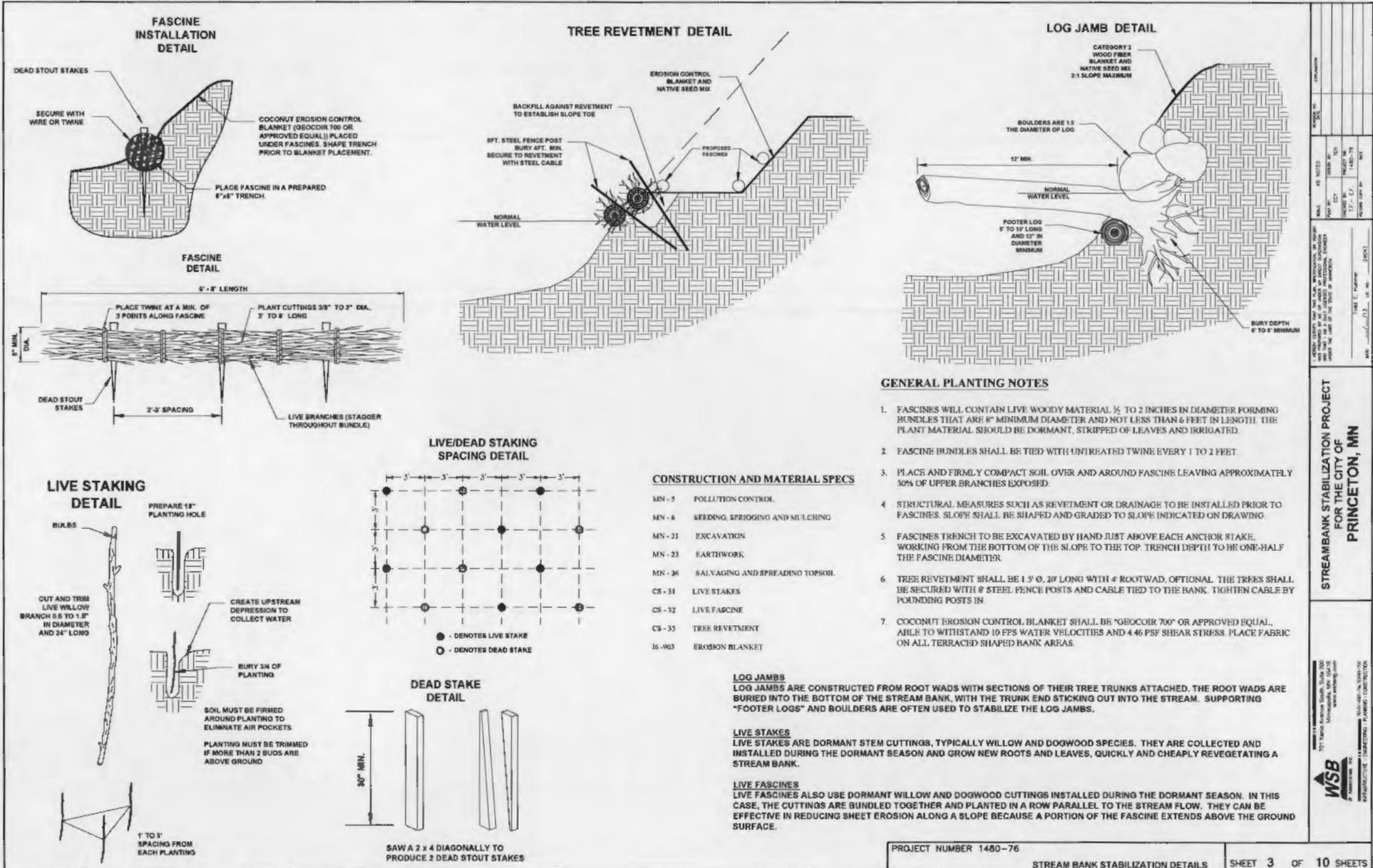
- SEED MIX MNDOT 250 @ 70 LBS/AC
- FERTILIZER MNDOT TYPE II @ 200 LBS/AC
- MULCH MNDOT TYPE III @ 2 TON/AC AND DISC ANCHORED MULCHED (SLOPES LESS THAN 4:1)
- BLANKET MNDOT TYPE III FOR SLOPES GREATER THAN 4:1

NATIVE SEEDING SPECIFICATIONS:

- ALL NATIVE SEEDING WILL BE DONE PRIOR TO STAKING DOWN THE EROSION BLANKET. ALL LIVE STAKES WILL BE PLANTED INTO THE EROSION BLANKET.
- SHORELINE GRASS SEED MIX @ 36LBS/AC (APPROX. 0.30 AC)
- TALL/WET GRASS SEED MIX @ 36 LBS/AC (APPROX. 0.40 AC)
- TALL/WET FLOWER SEED MIX @ 5 LBS/AC (APPROX. 0.40 AC)
- MESIC GRASS SEED MIX @ 28 LBS/AC (APPROX. 0.20 AC)
- MESIC FLOWER SEED MIX @ 7 LBS/AC (APPROX. 0.20 AC)
- SHORT/DRY GRASS SEED MIX @ 25 LBS/AC (APPROX. 0.50 AC)
- SHORT/DRY FLOWER SEED MIX @ 6 LBS/AC (APPROX. 0.50 AC)
- OATS COVER CROP @ 24 LBS/AC (APPROX. 2.0 AC)

DATE: 11/13/13	SCALE: AS SHOWN	PROJECT NO: 1480-76	SHEET NO: 2	TOTAL SHEETS: 10
<p>STREAMBANK STABILIZATION PROJECT FOR THE CITY OF PRINCETON, MN</p>				
<p>WSB & ASSOCIATES, INC. ENGINEERS, PLANNERS, ARCHITECTS</p>				

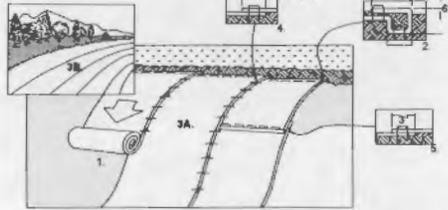
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DATE	AS NOTED	BY	DATE
PROJECT NO.	1480-76	SHEET NO.	3
<p>STREAMBANK STABILIZATION PROJECT FOR THE CITY OF PRINCETON, MN</p>			
<p>W&B CONSULTANTS, INC. 1000 University Ave. Suite 200, Princeton, MN 55974 PH: 507-783-1111 FAX: 507-783-1112 WWW.WANDBCONSULTANTS.COM</p>			

K:\01480-76\01480-76\01480-76 Details 1 M3.dwg DETAILS

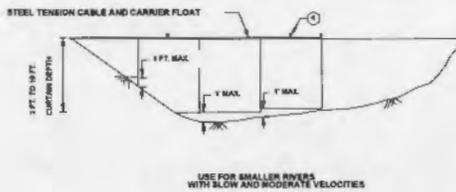
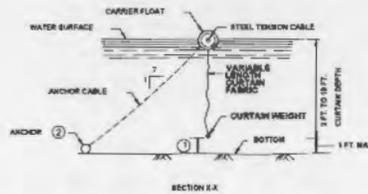
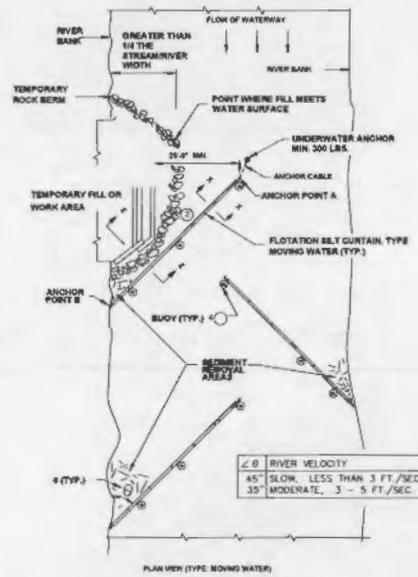
EROSION CONTROL BLANKET INSTALLATION DETAIL



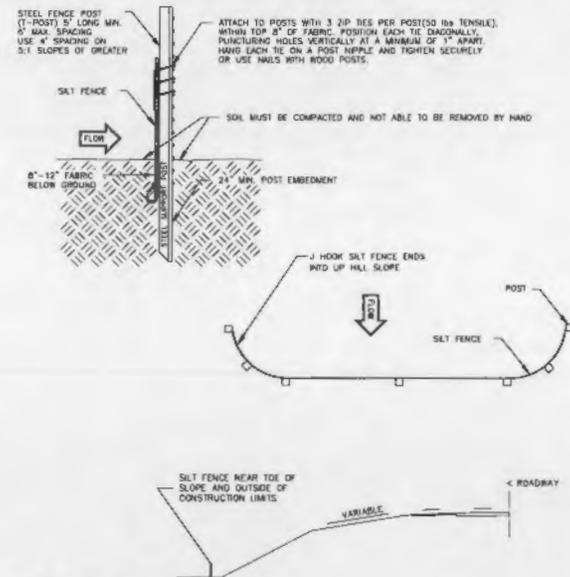
1. PREPARE SOIL BEFORE INSTALLING BLANKETS, INCLUDING ANY NECESSARY APPLICATION OF LIMB, FERTILIZER, AND SEED.
2. BEGIN AT THE TOP OF THE SLOPE BY ANCHORING THE BLANKET IN A 6" (15cm) DEEP X 6" (15cm) WIDE TRENCH WITH APPROXIMATELY 12" (30cm) OF BLANKET EXTENDED BEYOND THE UP-SLOPE PORTION OF THE TRENCH. ANCHOR THE BLANKET WITH A ROW OF STAPLES/STAKES APPROXIMATELY 12" (30cm) APART IN THE BOTTOM OF THE TRENCH. BACKFILL AND COMPACT THE TRENCH AFTER STAPLING. APPLY SEED TO COMPACTED SOIL AND FOLD REMAINING 12" (30cm) PORTION OF BLANKET BACK OVER SEED AND COMPACTED SOIL. SECURE BLANKET OVER COMPACTED SOIL WITH A ROW OF STAPLES/STAKES SPACED APPROXIMATELY 12" (30cm) APART ACROSS THE WIDTH OF THE BLANKET.
3. ROLL THE BLANKETS (A) DOWN OR (B.) HORIZONTALLY (PREFERABLE) ACROSS THE SLOPE. BLANKETS WILL UNROLL WITH APPROPRIATE SIDE IN APPROPRIATE LOCATIONS AS SHOWN IN THE STAPLE PATTERN GUIDE. WHEN USING OPTIONAL DOT SYSTEM, STAPLES/STAKES SHOULD BE PLACED THROUGH EACH OF THE COLORED DOTS CORRESPONDING TO THE APPROPRIATE STAPLE PATTERN.
4. THE EDGES OF PARALLEL BLANKETS MUST BE STAPLED WITH APPROXIMATELY 2"-5" (5cm-12.8cm) OVERLAP DEPENDING ON BLANKET TYPE. TO ENSURE PROPER SEAM ALIGNMENT, PLACE THE EDGE OF THE OVERLAPPING BLANKET (BLANKET BEING INSTALLED ON TOP) EVEN WITH THE COLORED SEAM STITCH ON THE PREVIOUSLY INSTALLED BLANKET.
5. CONSECUTIVE BLANKETS SPICED DOWN THE SLOPE MUST BE PLACED END OVER END (SHINGLE STYLE) WITH AN APPROXIMATE 3" (7.6cm) OVERLAP. STAPLE THROUGH OVERLAPPED AREA, APPROXIMATELY 12" (30cm) APART ACROSS ENTIRE BLANKET WIDTH.
6. BLANKETS MAY BE PLACED HORIZONTALLY FROM THE REVETMENT TO THE TOE OF THE SECOND TIER.

NOTE:
 "IN LOOSE SOIL CONDITIONS, THE USE OF STAPLE OR STAKE LENGTHS GREATER THAN 6" (16cm) MAY BE NECESSARY TO PROPERLY SECURE THE BLANKETS.

FLOATING SILT CURTAIN DETAIL

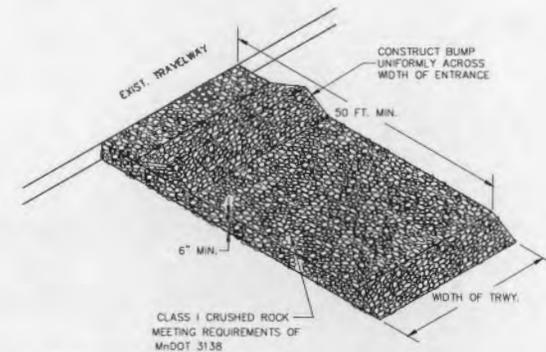


SILT FENCE



- NOTES**
1. WOOD POST CAN BE USED ON SLOPES 10:1 OR FLATTER, USE A WOOD LATH AND 2 NAILS ON EACH WOOD POST.
 2. SEDIMENT SHALL BE REMOVED WHEN IT REACHES 1/3 THE HEIGHT OF THE FENCE OR 9" DEEP MAX.
 3. SILT FENCE SHALL BE INSPECTED WEEKLY AND AFTER EACH 1" RAIN EVENT IN 24 HOURS. ANY REQUIRED REPAIRS SHALL BE MADE IMMEDIATELY.
 4. MONOLAMENT GEOTEXTILE FABRIC PER MnDOT TABLE 3886-1 MACHINE SLICED.

ROCK CONSTRUCTION ENTRANCE



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DATE	11/14/13
SCALE	AS SHOWN
DESIGNED BY	W.S.B.
CHECKED BY	W.S.B.
DATE	11/14/13
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PROJECT TITLE	STREAMBANK STABILIZATION PROJECT FOR THE CITY OF PRINCETON, MN
PROJECT LOCATION	PRINCETON, MN
PROJECT NUMBER	1480-78
DATE	11/14/13
SCALE	AS SHOWN
DESIGNED BY	W.S.B.
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DATE	11/14/13
SCALE	AS SHOWN



ESTIMATED QUANTITIES

QUANTITY	UNIT	ITEM
300	CY	SALVAGE TOPSOIL
1800	CY	EXCAVATION
400	LF	FLOATING SILT CURTAIN
800	LF	SILT FENCE
1	LS	POLLUTION CONTROL
30	EACH	TREE REVETMENT
1	EACH	ROCK CONSTRUCTION ENTRANCE
1700	SY	JUTE EROSION BLANKET
425	EACH	1"x2"x18" STAKES
1	ACRE	DISTURBED LAWN SEEDING AND MULCHING
3	EACH	TREE LOG JAMB PLACEMENT
1	EACH	PLANTING PLAN
425	EACH	LIVE STAKES
900	LF	LIVE FASCINES W/DEAD STAKES
1700	SY	NATIVE SEEDING

NOTES

- EXCAVATION QUANTITIES ESTIMATED -- BASED ON CITY SUPPLIED CONTOURS.
- TOPSOIL QUANTITIES ESTIMATED -- ASSUMED 6" DEPTH.
- COMPACTION NOT ESTIMATED IN CALCULATED VOLUMES.
- CONTRACTOR SHALL CONSTRUCT, MAINTAIN, AND REMOVE TEMPORARY ACCESS ROAD. ACCESS ROAD TO CONSIST OF A 2FT. SECTION OF WOOD SHREDS (OR APPROVED EQUAL). ALL ASSOCIATED COST FOR ACCESS ROAD SHALL BE CONSIDERED INCIDENTAL TO THE PROJECT.



PROJECT NUMBER 1480-76

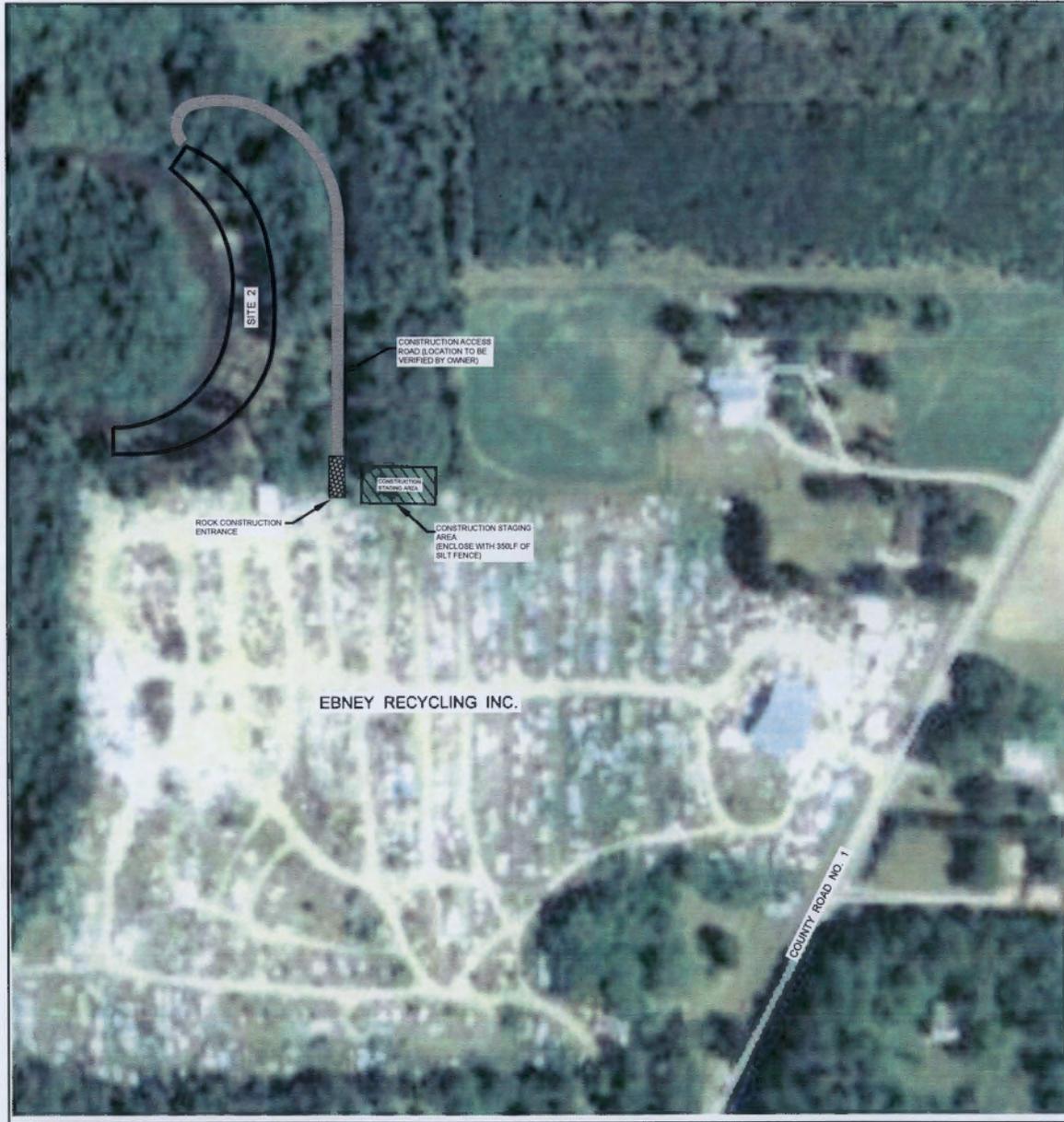
SITE 1 - ISD NO. 477
SITE ACCESS AND QUANTITIES

SHEET 5 OF 10 SHEETS

WSB ENGINEERING, INC. 701 North Avenue South, Suite 200, Minneapolis, MN 55415
 PROJECT NO. 1480-76 SHEET NO. 5 OF 10
 DATE: 11/13/13

STREAMBANK STABILIZATION PROJECT FOR THE CITY OF PRINCETON, MN

WSB ENGINEERING, INC. 701 North Avenue South, Suite 200, Minneapolis, MN 55415
 PROJECT NO. 1480-76 SHEET NO. 5 OF 10
 DATE: 11/13/13



ESTIMATED QUANTITIES

QUANTITY	UNIT	ITEM
1	EACH	ROCK CONSTRUCTION ENTRANCE
900	CY	SALVAGE TOPSOIL
2900	CY	EXCAVATION
500	CY	EARTHFILL
1200	LF	FLOATING SILT CURTAIN
2000	LF	SILT FENCE
500	LF	CONSTRUCTION FENCE
1	LS	POLLUTION CONTROL
135	EACH	TREE REVETMENT
6325	SY	JUTE EROSION BLANKET
1600	EACH	1"x2"x18" STAKES
1.5	ACRE	DISTURBED LAWN SEEDING AND MULCHING
7	EACH	TREE LOG JAMB PLACEMENT
1	EACH	PLANTING PLAN
1600	EACH	LIVE STAKES
4050	LF	LIVE FASCINES W/DEAD STAKES
6325	SY	NATIVE SEEDING

NOTES

- EXCAVATION QUANTITIES ESTIMATED - BASED ON CITY SUPPLIED CONTOURS.
- TOPSOIL QUANTITIES ESTIMATED - ASSUMED 6" DEPTH.
- COMPACTION NOT ESTIMATED IN CALCULATED VOLUMES.
- CONTRACTOR TO PROTECT EXISTING BITUMINOUS TRAIL. REPAIR OR REPLACEMENT OF TRAIL SHALL BE CONSIDERED INCIDENTAL TO THE PROJECT.



PROJECT NUMBER 1480-76

SITE 2 - ABNEY RECYCLING INC.
SITE ACCESS AND QUANTITIES

SHEET 6 OF 10 SHEETS

I HEREBY CERTIFY THAT THIS PLAN, SPECIFICATION, OR REPORT WAS PREPARED BY ME OR UNDER MY CLOSE PERSONAL SUPERVISION AND THAT I AM A LICENSED PROFESSIONAL ENGINEER UNDER THE LAWS OF THE STATE OF MINNESOTA.

DATE: _____ TIME: _____

PROJECT NO. _____ SHEET NO. _____

WSB ENGINEERING & PLANNING CONSTRUCTION

1111 Avenue South, Suite 200
 Minneapolis, MN 55426
 www.wsbeng.com

WSB
 ENGINEERING & PLANNING CONSTRUCTION

STREAMBANK STABILIZATION PROJECT FOR THE CITY OF PRINCETON, MN

K:\01480-76\Cad\M3\01480-76 AQ M3.dwg, SITE 2

FOR INFORMATION ONLY - SEE SHEET 10 FOR PROJECT LOCATION



- NOTES:**
1. CONTRACTOR SHALL PLACE PERIMETER CONTROLS PRIOR TO INITIATING WORK.
 2. CONTRACTOR SHALL PHASE GRADING OF SLOPES TO LIMIT THE AREA EXPOSED TO SOILS PER WORK DAY.
 3. ALL FINISHED SLOPES SHALL BE PERMANENTLY STABILIZED WITHIN 24 HOURS OF EXPOSING SOILS. MEASURES SHALL BE IMPLEMENTED TEMPORARILY ON PERMANENTLY STABILIZED WITHIN 24 HOURS BEFORE FORECASTED RAIN EVENTS.
 4. ALL STEEP SLOPES SHALL BE TEMPORARILY OR PERMANENTLY STABILIZED WITHIN 24 HOURS AND BEFORE FORECASTED RAIN EVENTS.

PROJECT NUMBER 1480-76
SITE 1
2013 STREAM BANK STABILIZATION PROJECT
SHEET 7 OF 10 SHEETS



STREAMBANK STABILIZATION PROJECT FOR THE CITY OF PRINCETON, MN

DATE	DESCRIPTION
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10/27/20	REVISED
11/03/20	REVISED
11/10/20	REVISED
11/17/20	REVISED
11/24/20	REVISED
12/01/20	REVISED
12/08/20	REVISED
12/15/20	REVISED
12/22/2	

