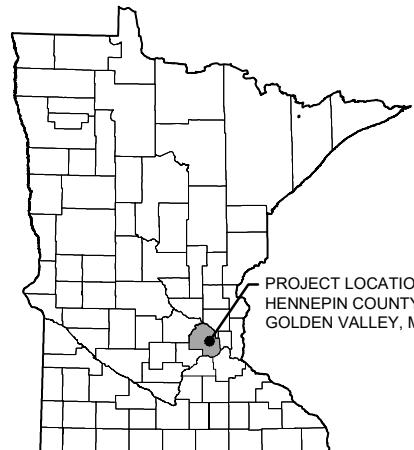


BASSETT CREEK MAIN STEM RESTORATION - PHASE 1

BASSETT CREEK WATERSHED MANAGEMENT COMMISSION



MINNESOTA COUNTY MAP

CONTACTS:

ENGINEER CONTACT:
 Jessica Olson
 Barr Engineering Co.
 325 South Lake Avenue
 Duluth, MN 55802
 218-259-7118
 jolson@barr.com

OWNER'S REPRESENTATIVE CONTACT:
 Laura Jester
 Bassett Creek Watershed Management Commission
 P.O. Box 270825
 Golden Valley, MN 55427
 952-270-1990
 laura.jester@keystonewaters.com

PROPERTY OWNER'S REPRESENTATIVE:
 Emma Rakestraw
 City of Golden Valley
 7800 Golden Valley Road
 Golden Valley, MN 55427
 763-593-8084
 erakestraw@goldenvalleymn.gov

GENERAL NOTES:

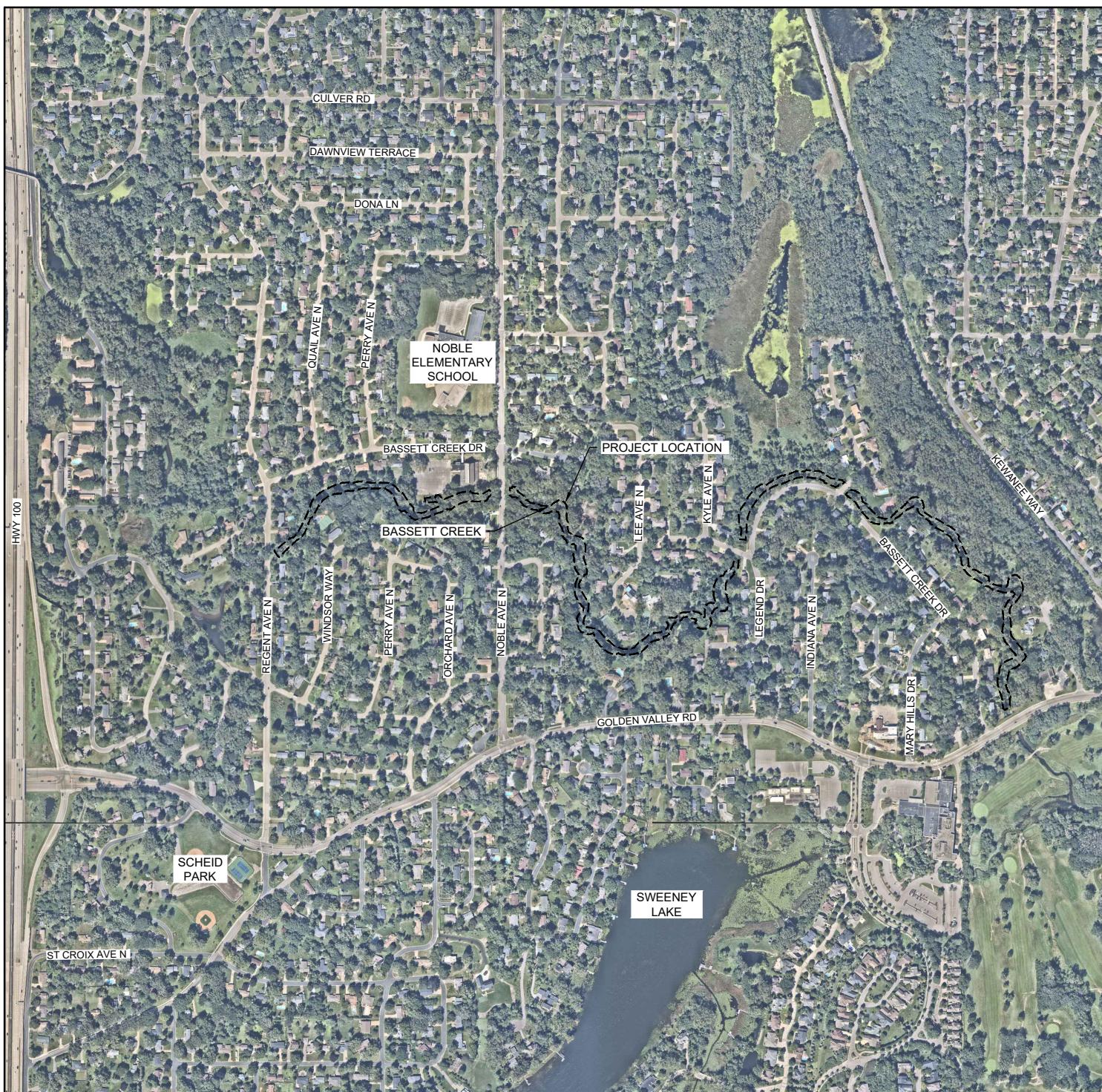
1. CONTOUR DATA SHOWN IN THIS PLAN SET IS BASED ON SURVEY PERFORMED BY BARR ENGINEERING IN MARCH 2025 (LIDAR DRONE) AND APRIL 2025 (SURVEY-GRADE GPS).
2. IMAGERY: NEARMAP PICTOMETRY LTD, AUGUST 2024.
3. HORIZONTAL DATUM AND COORDINATE SYSTEM: HENNEPIN COUNTY COORDINATES, NAD83, US SURVEY FEET.
4. VERTICAL DATUM: NAVD88.



GOPHER STATE ONE CALL:
 CALL BEFORE YOU DIG.
 1-800-252-1166



ORIGINAL DRAWING SIZE: ANSI FULL BLEED B11100 X 17100 INCHES | PLOT SCALE: 1:12 | PLOT DATE: 1/13/2025 9:51 AM
 CADD USER: ERIC P. FITZGERALD FILE: MADE/DESIGN202214.00/2327214_G-01.DWG



1 PLAN: PROJECT LOCATION
 0 400 800
 SCALE IN FEET



INDEX OF SHEETS

G-01 TITLE SHEET, PROJECT LOCATION AND SHEET INDEX
 G-02 ESTIMATED QUANTITIES, GENERAL NOTES, AND LEGEND
 G-03 STORMWATER POLLUTION PREVENTION PLAN (SWPPP)
 G-04 STORMWATER POLLUTION PREVENTION PLAN (SWPPP)
 G-05 EXISTING CONDITIONS, REMOVALS, TREE PROTECTION & EROSION CONTROL PLAN (STA. 0+00 - 9+00)
 G-06 EXISTING CONDITIONS, REMOVALS, TREE PROTECTION & EROSION CONTROL PLAN (STA. 9+00 - 18+00)
 G-07 EXISTING CONDITIONS, REMOVALS, TREE PROTECTION & EROSION CONTROL PLAN (STA. 18+00 - 27+00)
 G-08 EXISTING CONDITIONS, REMOVALS, TREE PROTECTION & EROSION CONTROL PLAN (STA. 27+00 - 36+00)
 G-09 EXISTING CONDITIONS, REMOVALS, TREE PROTECTION & EROSION CONTROL PLAN (STA. 36+00 - 45+00)
 G-10 EXISTING CONDITIONS, REMOVALS, TREE PROTECTION & EROSION CONTROL PLAN (STA. 45+00 - 54+00)
 G-11 EXISTING CONDITIONS, REMOVALS, TREE PROTECTION & EROSION CONTROL PLAN (STA. 54+00 - 63+00)
 G-12 EXISTING CONDITIONS, REMOVALS, TREE PROTECTION & EROSION CONTROL PLAN (STA. 63+00 - 72+00)
 G-13 EROSION CONTROL DETAILS
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C-01 SITE LAYOUT
 C-02 STREAM RESTORATION PLAN & PROFILE (STA. 0+00 - 9+00)
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 C-06 STREAM RESTORATION PLAN & PROFILE (STA. 36+00 - 45+00)
 C-07 STREAM RESTORATION PLAN & PROFILE (STA. 45+00 - 54+00)
 C-08 STREAM RESTORATION PLAN & PROFILE (STA. 54+00 - 63+00)
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 C-10 STREAM CROSS SECTIONS
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D-01 STREAM STABILIZATION DETAILS
 D-02 STREAM STABILIZATION DETAILS
 D-03 STREAM STABILIZATION DETAILS
 D-04 STREAM STABILIZATION DETAILS
 D-05 STREAM STABILIZATION DETAILS
 D-06 RAINWATER GARDEN DETAILS

INDEX ITEMS IN GRAY ARE PLACEHOLDERS
 AND NOT INCLUDED IN THIS DRAWING SET.

90% DESIGN
 ISSUED FOR REVIEW
 NOT FOR CONSTRUCTION

I HEREBY CERTIFY THAT THIS PLAN, SPECIFICATION, OR REPORT WAS PREPARED BY ME OR UNDER MY DIRECT SUPERVISION AND THAT I AM A DULUTH LICENSED PROFESSIONAL ENGINEER UNDER THE LAWS OF THE STATE OF MINNESOTA.
 PRINTED NAME: _____
 SIGNATURE: _____
 DATE: _____ LICENSE #: _____

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 B EPF ADB2 JCO 11/13/2025 ISSUED FOR REVIEW
 A EPF JCO JCO 06/20/2025 ISSUED FOR REVIEW
 # BY CHK APP DATE RELEASE/REVISION DESCRIPTION

BARR
 BARR ENGINEERING CO.
 4300 MARKETPOINTE DRIVE
 SUITE 200
 MINNEAPOLIS, MN 55435
 PH: 1-800-632-2277
 WWW.BARR.COM
 MINNESOTA ENGINEERING FIRM
 NUMBER 10104111545

BASSETT CREEK WATERSHED MANAGEMENT COMMISSION
 GOLDEN VALLEY, MINNESOTA

BASSETT CREEK MAIN STEM RESTORATION - PHASE 1
 GOLDEN VALLEY, MINNESOTA
 TITLE SHEET, PROJECT LOCATION,
 AND SHEET INDEX

BARR PROJECT # 23272114.00
 DWG # G-01
 REV # B

GENERAL NOTES:

TOPO AND CONTROL GROUND SURVEY CONDUCTED BY BARR ENGINEERING IN MARCH AND APRIL 2025 IN HENNEPIN COUNTY FEET PROJECTION.
IMAGERY: NEARMAP PICTOMETRY LTD, 2024.
1. CONTRACTOR IS RESPONSIBLE TO LOCATE AND FIELD VERIFY ALL EXISTING UTILITIES PRIOR TO WORK.
2. MINIMIZE DISTURBANCE OF EXISTING VEGETATION, WITH THE EXCEPTION OF AREAS OF VEGETATION REMOVAL AS INDICATED ON THE DRAWINGS.
3. DO NOT DISTURB TREES AND SHRUBS NOT MARKED FOR REMOVAL, INCLUDING MINIMIZING DISTURBANCE OF SOILS WITHIN THE TREE DRIPLINE. DO NOT STOCKPILE MATERIALS OR DRIVE VEHICLES/EQUIPMENT WITHIN TREE DRIPLINE(S) UNLESS APPROVED BY ENGINEER.
4. AVOID OR MINIMIZE DISTURBANCE THROUGH ALL CONSTRUCTION ACCESS ROUTES. COORDINATE WITH CITY AND ADJACENT PROPERTY OWNERS TO FLAG SPECIFIC LANDSCAPING FOR PROTECTION.
5. ALL EXISTING ROADS, PARKING LOTS, TRAILS, FENCES, SIGNS, OR SIMILAR SHALL BE PROTECTED DURING CONSTRUCTION, EXCEPT WHERE SHOWN ON PLANS FOR REMOVAL. CONTRACTOR RESPONSIBLE TO COORDINATE SURVEYS WITH THE CITY AND/OR OWNER TO DOCUMENT PRE-CONSTRUCTION EXISTING CONDITION ISSUES.
6. CONTRACTOR SHALL INSTALL AND MAINTAIN ALL EROSION CONTROL BMPs PRIOR TO COMMENCEMENT OF GRADING FOR EACH LOCATION DURING CONSTRUCTION. EROSION CONTROL PLANS ARE PROVIDED INSIDE THE PROJECT STORMWATER POLLUTION PREVENTION PLAN (SWPPP).
7. ALL GROUND DISTURBANCE GENERATED FROM GRADING ACTIVITIES SHALL BE STABILIZED AND RESTORED WITH TOPSOIL, SEED W/COVER CROP AND EROSION CONTROL BLANKET OR STRAW MULCH.
8. CONTRACTOR TO MAINTAIN EXISTING STREAM BOTTOM WIDTH SO NOT TO DECREASE CREEK CROSS SECTIONAL AREA DURING RIPRAP INSTALLATION.
9. CONSTRUCTION LIMITS AS SHOWN ARE APPROXIMATE FINAL CONSTRUCTION LIMITS TO BE COORDINATED WITH THE OWNER AND/OR ENGINEER AND STAKED IN THE FIELD.
10. STREAM FEATURE LOCATIONS MAY BE FIELD FIT AS DIRECTED BY ENGINEER.
11. SWEEP PAVEMENT DAILY, OR AS REQUIRED TO KEEP FROM TRACKING MATERIALS OFFSITE.
12. REPAIR OR REMOVE ITEMS THAT ARE DAMAGED, REPAIR AND REPLACE DAMAGED ITEMS TO A CONDITION AT LEAST EQUAL TO THAT WHICH EXIST PRIOR TO THE START OF WORK.
13. OBTAIN ANY REQUIRED PERMITS, NOT PROVIDED BY THE ENGINEER, BEFORE PERFORMING TREE REMOVAL/PROTECTION NOTES:
1. ADDITIONAL TREE REMOVALS MAY BE REQUESTED AND APPROVED AT TIME OF CONSTRUCTION.
2. ASH TREES MUST BE REMOVED BETWEEN OCTOBER 1ST AND APRIL 30TH AND TAKEN TO AN APPROVED SITE FOR DISPOSAL. CONTRACTOR MUST PROVIDE ASSURANCE THAT ASH TREES DO NOT LEAVE QUARANTINED AREA.
3. CONTRACTOR SHALL FOLLOW ALL ROAD RESTRICTION REGULATIONS WHEN REMOVING TREES.
4. LANDSCAPE ARCHITECT SHALL MARK ALL TREES FOR REMOVAL PRIOR TO ANY CONSTRUCTION ACTIVITY. COORDINATE WITH LANDSCAPE ARCHITECT TWO (2) WEEKS PRIOR TO CONSTRUCTION.
5. REMOVE AND DISPOSE OF ALL WOOD AND DEBRIS IN ACCORDANCE WITH ALL LOCAL RULES AND REGULATIONS.
6. CONTRACTOR TO VERIFY AND RECORD QUANTITY OF TREES REMOVED WITH DIAMETER GREATER THAN 6".
7. ALL TREES NOT MARKED FOR REMOVAL SHALL BE AVOIDED AND ANY GRADING OR COMPACTION WITHIN THE DRIPLINE SHALL BE MINIMIZED.
8. CONSTRUCTION MATERIALS, STOCKPILES, EQUIPMENT, AND TEMPORARY FACILITIES SHALL NOT BE STORED OR OPERATED WITHIN THE TREE PROTECTION ZONE (EQUAL TO DRIPLINE).
9. ROOTS OUTSIDE OF THE TREE PROTECTION ZONE EXPOSED OR DAMAGED DURING EXCAVATION OR OTHER CONSTRUCTION ACTIVITY SHALL BE CLEANLY CUT AS DIRECTED BY THE CITY FORESTER.
10. ADDITIONAL TREE PROTECTION MEASURES MAY BE REQUIRED.

EROSION & SEDIMENT CONTROL NOTES:

1. INSTALL PERIMETER EROSION CONTROL AT THE LOCATIONS SHOWN ON THE PLANS PRIOR TO THE COMMENCEMENT OF ANY UPSLOPE LAND DISTURBANCE OR CONSTRUCTION ACTIVITIES.
2. BEFORE BEGINNING CONSTRUCTION, INSTALL A TEMPORARY ROCK CONSTRUCTION ENTRANCE AT EACH POINT WHERE VEHICLES ENTER OR EXIT THE CONSTRUCTION SITE.
3. INSTALL INLET PROTECTION AT ALL PUBLIC AND PRIVATE CATCH BASIN INLETS WHICH RECEIVE RUNOFF FROM THE DISTURBED AREAS. CONTRACTOR SHALL CLEAN, REMOVE SEDIMENT, OR REPLACE STORM DRAIN INLET PROTECTION DEVICES ON A ROUTINE BASIS SUCH THAT THE DEVICES ARE FULLY FUNCTIONAL FOR THE NEXT RAIN EVENT. SEDIMENT DEPOSITED IN AND/OR PLUGGING DRAINAGE SYSTEMS IS THE RESPONSIBILITY OF THE CONTRACTOR. HAY BALES OR FILTER FABRIC WRAPPED GRATES ARE NOT ALLOWED FOR INLET PROTECTION.
4. LOCATE SOIL OR DIRT STOCKPILES NO LESS THAN 25 FEET FROM ANY PUBLIC OR PRIVATE ROADWAY OR DRAINAGE CHANNEL. IF REMAINING FOR MORE THAN SEVEN DAYS, STABILIZE THE STOCKPILES BY MULCHING, VEGETATIVE COVER, TARP, OR OTHER MEANS. CONTROL EROSION FROM ALL STOCKPILES BY PLACING SILT BARRIERS AROUND THE PILES. TEMPORARY STOCKPILES LOCATED ON PAVED SURFACES MUST BE NO LESS THAN TWO FEET FROM THE DRAINAGE/GUTTER LINE AND SHALL BE COVERED IF LEFT MORE THAN 24 HOURS.
5. NATURAL TOPOGRAPHY AND SOIL CONDITIONS MUST BE PROTECTED, INCLUDING RETENTION ONSITE OF NATIVE TOPSOIL TO THE GREATEST EXTENT POSSIBLE.
6. ADDITIONAL MEASURES, SUCH AS HYDRAULIC MULCHING AND OTHER PRACTICES AS SPECIFIED BY THE WATERSHED MANAGEMENT COMMISSION MUST BE USED ON SLOPES OF 3:1 (H:V) OR STEEPER TO PROVIDE ADEQUATE STABILIZATION.
7. CONSTRUCTION SITE WASTE SUCH AS DISCARDED BUILDING MATERIALS, CONCRETE TRUCK WASHOUT, CHEMICALS, LITTER AND SANITARY WASTE MUST BE PROPERLY MANAGED.
8. ALL TEMPORARY EROSION AND SEDIMENT CONTROL BMPs MUST BE MAINTAINED UNTIL COMPLETION OF CONSTRUCTION AND VEGETATION IS ESTABLISHED SUFFICIENTLY TO ENSURE STABILITY OF THE SITE, AS DETERMINED BY THE WATERSHED MANAGEMENT COMMISSION, AND ALL FINAL STABILIZATION REQUIREMENTS ARE ACHIEVED.
9. ALL DISTURBED AREAS MUST BE STABILIZED WITHIN 7 CALENDAR DAYS AFTER LAND-DISTURBING WORK HAS TEMPORARILY OR PERMANENTLY CEASED ON A PROPERTY THAT DRAINS TO AN IMPAIRED WATER, WITHIN 14 DAYS ELSEWHERE.
10. THE PERMITTEE MUST, AT A MINIMUM, INSPECT, MAINTAIN AND REPAIR ALL DISTURBED SURFACES AND ALL EROSION AND SEDIMENT CONTROL FACILITIES AND SOIL STABILIZATION MEASURES EVERY DAY WORK IS PERFORMED ON THE SITE AND AT LEAST WEEKLY UNTIL LAND-DISTURBING ACTIVITY HAS CEASED. THEREAFTER, THE PERMITTEE MUST PERFORM THESE RESPONSIBILITIES AT LEAST WEEKLY UNTIL VEGETATIVE COVER IS ESTABLISHED. THE PERMITTEE WILL MAINTAIN A LOG OF ACTIVITIES UNDER THIS SECTION FOR INSPECTION BY THE DISTRICT ON REQUEST.
11. CHANGES TO APPROVED EROSION CONTROL PLAN MUST BE APPROVED BY THE EROSION CONTROL INSPECTOR PRIOR TO IMPLEMENTATION. CONTRACTOR TO PROVIDE INSTALLATION AND DETAILS FOR ALL PROPOSED ALTERNATE TYPE DEVICES.
12. IF DEWATERING OR PUMPING OF WATER IS NECESSARY, THE CONTRACTOR IS RESPONSIBLE FOR OBTAINING ALL NECESSARY PERMITS AND/OR APPROVALS PRIOR TO DISCHARGE OF ANY WATER FROM THE SITE. IF THE DISCHARGE FROM THE DEWATERING OR PUMPING PROCESS IS TURBID OR CONTAINS SEDIMENT LADEN WATER, IT MUST BE TREATED THROUGH THE USE OF SEDIMENT TRAPS, VEGETATIVE FILTER STRIPS, OR OTHER SEDIMENT REDUCING MEASURES SUCH THAT THE DISCHARGE IS NOT VISIBLY DIFFERENT FROM THE RECEIVING WATER. ADDITIONAL EROSION CONTROL MEASURES MAY BE REQUIRED AT THE DISCHARGE POINT TO PREVENT SCOUR EROSION.
13. ACTIVITIES MUST BE CONDUCTED SO AS TO MINIMIZE THE POTENTIAL TRANSFER OF AQUATIC INVASIVE SPECIES (E.G., ZEBRA MUSSELS, EURASIAN WATERMILFOIL, ETC.) TO THE MAXIMUM EXTENT POSSIBLE. SEE SECTION 4.6 OF THE SWPPP (SHEET G-03) FOR FURTHER DETAIL.
14. WHEREVER CONSTRUCTION ACCESS ROUTE CROSSES EXISTING TRAILS, PROTECT WITH MATTING OR ENGINEER-APPROVED ALTERNATIVE.

STATEMENT OF ESTIMATED QUANTITIES

SEQ TO BE PROVIDED

MASTER LEGEND

960	EXISTING 10' CONTOUR
962	EXISTING 2' CONTOUR
P/L	EXISTING PROPERTY LINE
ESMT	EXISTING EASEMENT
>	EXISTING STORM SEWER
SAN	EXISTING SANITARY SEWER
GAS	EXISTING GAS LINE
OE	EXISTING OVERHEAD ELECTRIC
W	EXISTING WATERMAIN
UGFO	EXISTING UNDERGROUND FIBER OPTIC
X	EXISTING FENCE
WT	EXISTING WETLAND DELINEATION
OHWL	100-YEAR HWL
CONSTRUCTION LIMITS	EXISTING LIGHT POLE
EXISTING UTILITY POLE	EXISTING HYDRANT
EXISTING SIGN	EXISTING SANITARY MANHOLE
EXISTING STORM MANHOLE	EXISTING TREE
EXISTING TREE REMOVAL	EXISTING TREE PROTECTION
PROPOSED 5' CONTOUR (NOT INCLUDED IN 50% PLANS)	RIPRAP
PROPOSED 1' CONTOUR (NOT INCLUDED IN 50% PLANS)	TOE WOOD
X	PROPOSED TREE PROTECTION FENCING
101	TREE IDENTIFICATION NUMBER, SEE TABLE FOR TREE SURVEY AND TREE REMOVAL SUMMARY
RIPRAP	RIPRAP
TOE WOOD	TOE WOOD
VRSS	VRSS
GRADING AREA	GRADING AREA
ROOT WAD	ROOT WAD
BOULDER CROSS VANE	BOULDER CROSS VANE
J-HOOK BOULDER VANE	J-HOOK BOULDER VANE
COIR LOGS	COIR LOGS
FASCINES	FASCINES
SILT FENCE	SILT FENCE
SL	SEDIMENT CONTROL LOGS
CONSTRUCTION ACCESS	CONSTRUCTION ACCESS
INLET PROTECTION	INLET PROTECTION

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I HEREBY CERTIFY THAT THIS PLAN, SPECIFICATION, OR REPORT 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.

PRINTED NAME: _____
SIGNATURE: _____
DATE: _____ LICENSE #: _____

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B	EPF	ADB2	JCO	11/13/2025	ISSUED FOR REVIEW
A	EPF	JCO	JCO	06/20/2025	ISSUED FOR REVIEW
#	BY	CHK	APP	DATE	RELEASE/REVISION DESCRIPTION



BASSETT CREEK WATERSHED MANAGEMENT COMMISSION
GOLDEN VALLEY, MINNESOTA

BASSETT CREEK MAIN STEM RESTORATION - PHASE 1
GOLDEN VALLEY, MINNESOTA
ESTIMATED QUANTITIES, GENERAL NOTES, AND LEGEND

BARR PROJECT # 23272114.00
DWG # G-02
REV # B

1.0 GENERAL CONSTRUCTION ACTIVITY INFORMATION:

THIS STORMWATER POLLUTION PREVENTION PLAN (SWPPP) HAS BEEN PREPARED IN COMPLIANCE WITH THE MINNESOTA GENERAL STORMWATER PERMIT FOR CONSTRUCTION ACTIVITY NO. MNR100001 (GENERAL PERMIT), AS REQUIRED BY THE MINNESOTA POLLUTION CONTROL AGENCY (MPCA) UNDER THE NATIONAL POLLUTANT DISCHARGE ELIMINATION SYSTEM/STATE DISPOSAL SYSTEM (NPDES/SDS) PROGRAM.

THE PROJECT IS LOCATED IN THE CITY OF GOLDEN VALLEY, HENNEPIN COUNTY, MINNESOTA. PROPOSED CONSTRUCTION ACTIVITIES WILL TAKE PLACE ALONG BASSETT CREEK BETWEEN THE CULVERT OUTLET AT REGENT AVE N AND THE CULVERT INLET AT GOLDEN VALLEY RD. THE APPROXIMATE CENTROID OF THE PROJECT HAS A LATITUDE OF 45.002886 AND A LONGITUDE OF -93.337206.

THE PROJECT WORK INVOLVES THE REMOVAL AND REPLACEMENT OF STORM SEWER PIPE AND STRUCTURES, ALONG YORK AVENUE S FROM WEST 53RD STREET TO THE OUTLET AT MINNEHAHA CREEK AND ALONG W 53RD ST FROM ABBOTT AVE S TO XERXES AVE S. CONSTRUCTION WILL CONSIST OF TREE REMOVAL AND CLEARING/GRUBBING, EXCAVATION OF STREAM BANKS, INSTALLATION OF CROSS VANES, TOE WOOD, VRSS, RIPRAP, AND OTHER STREAM RESTORATION MEASURES, AND SITE RESTORATION. THE PROJECT IS NOT PART OF A LARGER COMMON PLAN OF DEVELOPMENT. EROSION PREVENTION AND SEDIMENT CONTROL MEASURES ARE REQUIRED TO MINIMIZE SEDIMENT FROM BEING TRANSPORTED TO BASSETT CREEK, AN EPA - APPROVED IMPAIRED WATER. REFER TO PROJECT DRAWINGS FOR FURTHER DETAILS. (CSW PERMIT PART III.A.1)

1.1 PROJECT SIZE AND CUMULATIVE IMPERVIOUS SURFACE:

- THE ANTICIPATED AREA OF DISTURBANCE IS APPROXIMATELY 9.57 ACRES.
- THE TOTAL AREA OF PRE-CONSTRUCTION IMPERVIOUS AREA IS APPROXIMATELY 0.00 ACRES.
- THE TOTAL AREA OF POST-CONSTRUCTION IMPERVIOUS AREA IS APPROXIMATELY 0.00 ACRES.
- THE TOTAL NEW IMPERVIOUS AREA IS APPROXIMATELY 0.00 ACRES.

1.2 DATES OF CONSTRUCTION:

- ANTICIPATED START DATE: JULY 2026

ANTICIPATED END DATE: NOVEMBER 2026

1.3 CONTACT INFORMATION:

ORGANIZATION	CONTACT NAME	ADDRESS	EMAIL	PHONE
CITY OF GOLDEN VALLEY	DREW CHIRPICH	7800 GOLDEN VALLEY RD, GOLDEN VALLEY, MN 55427	ROSE.STENGLIN@MINNEAPOLISMN.GOV	(763) 593-8000
BASSETT CREEK WATERSHED MANAGEMENT COMMISSION	LAURA JESTER	16145 HILLCREST LANE, EDEN PRAIRIE, MN 55346	LAURA.JESTER@KEYSTONEWATERS.COM	(952) 270-1990
METROPOLITAN COUNCIL	MANKING LEE	390 ROBERT ST, NORTH SAINT PAUL, MN 55101-1805	VSANNES@MINNEHAHACREEK.ORG	(651) 602-1000
BARR ENGINEERING	JESSICA OLSON	4300 MARKET POINTE DR, SUITE 200, MINNEAPOLIS, MN 55435	JOLSON@BARR.COM	(218) 529-7118
BARR ENGINEERING	KAREN CHANDLER	4300 MARKET POINTE DR, SUITE 200, MINNEAPOLIS, MN 55435	KCHANDLER@BARR.COM	(952) 832-2813

OPERATOR / GENERAL CONTRACTOR (WILL OVERSEE IMPLEMENTATION OF THE SWPPP): TBD

MAILING ADDRESS: TBD

CONTACT PERSON: TBD

TITLE: TBD

PHONE NUMBER: TBD

EMAIL ADDRESS: TBD

2.0 RECEIVING WATERS:

WATERS WITHIN ONE MILE (NEAREST STRAIGHT LINE DISTANCE) THAT ARE LIKELY TO RECEIVE STORMWATER RUNOFF FROM THE PROJECT SITE (CSW PERMIT ITEM 5.10) INCLUDE:

NAME OF WATER BODY	TYPE ⁽¹⁾	WATER BODY ID ⁽²⁾	SPECIAL WATER? ⁽³⁾	IMPAIRED WATER? ⁽³⁾	PUBLIC WATER WITH WORK IN WATER RESTRICTIONS?
BASSETT CREEK	CREEK	07010206-811	YES	YES	YES
SWEENEY LAKE	LAKE	27-0035-01	NO	NO	YES

(1) TYPE EXAMPLES: DITCH, POND, WETLAND, CALCAREOUS FEN, LAKE, STREAM, RIVER

(2) WATER BODY IDENTIFICATION (ID) MIGHT NOT BE AVAILABLE FOR ALL WATER BODIES. USE THE SPECIAL AND IMPAIRED WATERS SEARCH TOOL AT: [HTTPS://WWW.PCA.STATE.MN.US/WATER/STORMWATER-SPECIAL-AND-IMPAIRED-WATERS-SEARCH](https://WWW.PCA.STATE.MN.US/WATER/STORMWATER-SPECIAL-AND-IMPAIRED-WATERS-SEARCH)

(3) REFER TO CSW PERMIT SECTION 23. IMPAIRED WATER FOR THE FOLLOWING POLLUTANT(S) OR STRESSOR(S): PHOSPHORUS (NUTRIENT EUTROPHICATION BIOLOGICAL INDICATORS), TURBIDITY, TOTAL SUSPENDED SOLIDS (TSS), DISSOLVED OXYGEN, OR AQUATIC BIOTA (FISH BIOASSESSMENT, AQUATIC PLANT BIOASSESSMENT, AND AQUATIC MACROINVERTEBRATE BIOASSESSMENT)

2.1 SPECIAL AND IMPAIRED WATERS: THE MPCA'S SPECIAL AND IMPAIRED WATERS SEARCH TOOL WAS USED TO LOCATE SPECIAL AND IMPAIRED WATERS WITHIN ONE MILE (AERIAL RADIUS MEASUREMENT) OF THE PROJECT SITE. BASSETT CREEK HAS EPA-APPROVED IMPAIRMENTS FOR FISH BIOASSESSMENTS AND BENTHIC MACROINVERTEBRATES BIOASSESSMENTS. THESE IMPAIRMENTS ARE CONSIDERED NON-CONSTRUCTION RELATED AND DO NOT REQUIRE ADDITIONAL BEST MANAGEMENT PRACTICES (BMPS) OR PLAN REVIEW FOR COMPLIANCE WITH THE GENERAL PERMIT. (CSW PERMIT ITEM 2.7 AND SECTION 23)

THIS PROJECT DOES NOT INCLUDE ANY ADDITIONAL BMPS OR OTHER SPECIFIC CONSTRUCTION RELATED IMPLEMENTATION ACTIVITIES IDENTIFIED IN AN APPROVED TOTAL MAXIMUM DAILY LOAD (TMDL). (CSW PERMIT ITEM 5.19)

2.2 PUBLIC WATERS WITH WORK IN WATER RESTRICTIONS: BASSETT CREEK IS IDENTIFIED BY THE DNR AS A PUBLIC WATER. WORK IS RESTRICTED FOR NON-TROUT STREAMS IN MINNEAPOLIS MINNESOTA BETWEEN MARCH 15 - JUNE 15. DURING THE RESPECTIVE RESTRICTION PERIODS, ALL EXPOSED SOILS WITHIN 200 FEET OF THE WATER'S EDGE WILL HAVE EROSION PREVENTION STABILIZATION ACTIVITIES INITIATED IMMEDIATELY AFTER CONSTRUCTION ACTIVITY HAS CEASED (AND COMPLETED WITHIN 24 HOURS). (CSW PERMIT ITEM 5.11)

2.3 WETLAND IMPACTS: THIS PROJECT WILL NOT REQUIRE EXCAVATION AND FILL IN WETLANDS AS PART OF PROJECT CONSTRUCTION. (CSW PERMIT ITEMS 2.4 AND 2.10, AND SECTION 22)

2.4 ENVIRONMENTAL REVIEW AND OTHER REQUIRED REVIEWS: NO FEDERAL, STATE, OR LOCAL ENVIRONMENTAL REVIEWS OR ASSOCIATED ENVIRONMENTAL APPROVALS FOR THE PROJECT REQUIRE STORMWATER MITIGATION MEASURE. (CSW PERMIT ITEMS 2.8, 2.9, AND 5.16)

2.5 KARST AREAS OR DRINKING WATER SUPPLY MANAGEMENT AREAS: THIS PROJECT DOES NOT INCLUDE ANY KARST OR DRINKING WATER SUPPLY MANAGEMENT AREAS. (CSW PERMIT ITEMS 16.19, 16.20, AND 18.10)

3.0 PROJECT PLANS AND SPECIFICATIONS:

REQUIRED FEATURE

- PROJECT LOCATION AND CONSTRUCTION LIMITS
- EXISTING AND FINAL GRADES, INCLUDING DRAINAGE AREA BOUNDARIES, DIRECTIONS OF FLOW AND ALL DISCHARGE POINTS WHERE STORMWATER IS LEAVING THE SITE OR ENTERING A SURFACE WATER
- SOIL TYPES AT THE SITE
- LOCATIONS OF IMPERVIOUS SURFACES
- LOCATIONS OF AREAS NOT BE DISTURBED (E.G., BUFFER ZONES, WETLANDS, ETC.)
- LOCATIONS OF AREAS OF STEEP SLOPES
- LOCATIONS OF AREAS WHERE CONSTRUCTION WILL BE PHASED TO MINIMIZE DURATION OF EXPOSED SOILS
- PORTIONS OF THE SITE THAT DRAIN TO A PUBLIC WATER WITH DNR WORK IN WATER RESTRICTIONS FOR FISH SPAWNING TIMEFRAMES
- LOCATIONS OF ALL TEMPORARY AND PERMANENT EROSION AND SEDIMENT CONTROL BMPS AS REQUIRED IN PERMIT SECTIONS 8 THROUGH 10 AND 14 THROUGH 19
- BUFFER ZONES AS REQUIRED IN PERMIT ITEMS 9.17 AND 23.11
- LOCATIONS OF POTENTIAL POLLUTION-GENERATING ACTIVITIES IDENTIFIED IN PERMIT SECTION 12
- STANDARD DETAIL PLATES FOR EROSION AND SEDIMENT CONTROL BMPS TO BE INSTALLED AT THE SITE

SHEET NUMBER
G-01, C-01

C-02 THRU C-09
G-04
C-02 THRU C-09
C-02 THRU C-09
NA

NA
NA
NA

G-05 THRU G-12
NA
NA

G-13, G-14

4.0 BEST MANAGEMENT PRACTICES (BMPS):

4.1 EROSION PREVENTION PRACTICES:

- BEFORE LAND DISTURBING ACTIVITIES BEGIN, THE LIMITS OF THE AREAS TO BE DISTURBED DURING CONSTRUCTION WILL BE DELINEATED WITH FLAGS, STAKES, SIGNS, SILT FENCE, ETC.
- TEMPORARY STABILIZATION OF SOILS AND SOIL STOCKPILES: (CSW PERMIT ITEMS 8.4, 8.5, AND 23.9)
 - AREAS OF EXPOSED SOIL WILL BE STABILIZED WITH EROSION CONTROL BLANKET, PRESERVATION OF MATURE VEGETATION, MULCH OR EQUIVALENT MEASURES.
 - IF PRESENT, SOIL STOCKPILES WILL BE STABILIZED WITH MULCH (SUCH AS STRAW MULCH, EROSION CONTROL BLANKETS OR EQUIVALENT MEASURES).
 - TEMPORARY STOCKPILES WITHOUT SIGNIFICANT SILT, CLAY, OR ORGANIC COMPONENTS (E.G., CLEAN AGGREGATE STOCKPILES, DEMOLITION CONCRETE STOCKPILES, SAND STOCKPILES) AND THE CONSTRUCTED BASE COMPONENTS OF ROADS, PARKING LOTS, AND SIMILAR SURFACES ARE EXEMPT FROM THESE STABILIZATION REQUIREMENTS.
- STABILIZATION OF DITCH AND SWALE WETTED PERIMETERS: (CSW PERMIT ITEMS 8.6 THROUGH 8.8)
 - IF SOILS WITHIN EXISTING STORMWATER DITCHES OR SWALES ARE DISTURBED, THEY WILL BE STABILIZED WITH CHANNEL EROSION CONTROL BLANKET, RIPRAP, TURF REINFORCEMENT MAT OR EQUIVALENT MEASURES.
 - MULCH, HYDROMULCH, TACKIFIER, POLYACRYLAMIDE, OR SIMILAR EROSION PREVENTION PRACTICES WILL NOT BE USED TO STABILIZE ANY PART OF AN EXISTING STORMWATER DITCH OR SWALE WITH A CONTINUOUS SLOPE OF GREATER THAN 2 PERCENT.
 - THE LAST 200 LINEAL FEET OF LENGTH OF THE NORMAL WETTED PERIMETER OF ANY TEMPORARY OR PERMANENT DITCH OR SWALE THAT DRAINS WATER FROM ANY PORTION OF THE CONSTRUCTION SITE, OR DIVERTS WATER AROUND THE SITE, WITHIN 200 LINEAL FEET FROM THE PROPERTY EDGE, OR FROM THE POINT OF DISCHARGE INTO ANY SURFACE WATER WILL BE STABILIZED WITHIN 24 HOURS AFTER CONNECTING TO A SURFACE WATER OR PROPERTY EDGE.
 - STABILIZATION OF THE REMAINING PORTIONS OF ANY TEMPORARY OR PERMANENT DITCHES OR SWALES WILL BE COMPLETED WITHIN 7 CALENDAR DAYS AFTER CONNECTING TO A SURFACE WATER OR PROPERTY EDGE AND CONSTRUCTION IN THAT PORTION OF THE DITCH HAS TEMPORARILY OR PERMANENTLY CEASED.
- ENERGY DISSIPATION AT PIPE OUTLETS: ENERGY DISSIPATION AT PIPE OUTLETS WILL BE PROVIDED WITH ONE OR MORE OF THE FOLLOW METHODS: RIP RAP, SPLASH PADS, GABIONS, OR EQUIVALENT MEASURES. (CSW PERMIT ITEM 8.9)
- EROSION PREVENTION IMPLEMENTATION TIMELINES: (CSW PERMIT ITEMS 5.4, 8.4 THROUGH 8.6, AND 23.9)
 - STABILIZATION OF EXPOSED SOIL AREAS (INCLUDING STOCKPILES) WILL BE INITIATED IMMEDIATELY TO LIMIT SOIL EROSION WHENEVER ANY CONSTRUCTION ACTIVITY HAS PERMANENTLY OR TEMPORARILY CEASED ON ANY PORTION OF THE SITE AND WILL NOT RESUME FOR A PERIOD EXCEEDING 14 CALENDAR DAYS.
 - IF THE EXPOSED SOIL AREAS DRAIN TO A DISCHARGE POINT THAT IS WITHIN ONE MILE (AERIAL RADIUS MEASUREMENT) OF A SPECIAL OR IMPAIRED WATER (SEE SECTION 2.0), STABILIZATION OF EXPOSED SOIL AREAS (INCLUDING STOCKPILES) WILL BE INITIATED IMMEDIATELY TO LIMIT SOIL EROSION WHENEVER ANY CONSTRUCTION ACTIVITY HAS PERMANENTLY OR TEMPORARILY CEASED ON ANY PORTION OF THE SITE AND WILL NOT RESUME FOR A PERIOD EXCEEDING 7 CALENDAR DAYS.
 - THE FOLLOWING ACTIVITIES CAN BE TAKEN TO INITIATE STABILIZATION: PREPPING THE SOIL FOR VEGETATIVE OR NON-VEGETATIVE STABILIZATION, APPLYING MULCH OR OTHER NON-VEGETATIVE PRODUCT TO THE EXPOSED SOIL AREA, OR SEEDING OR PLANTING THE EXPOSED AREA.
- ADDITIONAL EROSION PREVENTION MEASURES: THE FOLLOWING ADDITIONAL EROSION PREVENTION METHODS WILL BE IMPLEMENTED AT THE SITE DURING CONSTRUCTION: (CSW PERMIT ITEMS 8.2, 8.3, AND 8.10)
 - SOIL DISTURBANCE WILL BE MINIMIZED WHEREVER POSSIBLE TO AID IN EROSION PREVENTION.
 - EXISTING VEGETATION WILL BE PRESERVED WHEREVER POSSIBLE TO LIMIT EXPOSED SOIL AND THUS WILL SERVE AS NATURAL VEGETATIVE BUFFERS.
 - EXPOSED SOIL ON STEEP SLOPES (<3H:1V) WILL BE STABILIZED USING EROSION CONTROL BLANKETS AND SEEDING.
 - HORIZONTAL SLOPE GRADING WILL BE UTILIZED TO MINIMIZE EROSION POTENTIAL.
 - TERRACING WILL BE USED TO MINIMIZED EROSION POTENTIAL.

4.2 SEDIMENT CONTROL PRACTICES:

- DOWNGRADIENT PERIMETER CONTROLS: (CSW PERMIT ITEMS 9.2 THROUGH 9.6)
 - SEDIMENT CONTROL PRACTICES WILL BE ESTABLISHED ON ALL DOWNGRADIENT PERIMETERS AND LOCATED UPGRADIENT OF ANY BUFFER ZONES. PERIMETER SEDIMENT CONTROLS WILL INCLUDE: SILT FENCE, SEDIMENT CONTROL LOGS / BIOROLLS (FILLED WITH COMPOST, WOOD CHIPS, ROCK, ETC.), VEGETATIVE BUFFERS (RETAIN EXISTING VEGETATION WHERE POSSIBLE), OR EQUIVALENT MEASURES.
 - PERIMETER SEDIMENT CONTROL PRACTICES MUST BE INSTALLED BEFORE ANY UPGRADIENT LAND-DISTURBING ACTIVITIES BEGIN AND REMAIN IN PLACE UNTIL PERMANENT COVER HAS BEEN ESTABLISHED.
 - IF SEDIMENT CONTROL PRACTICES HAVE BEEN ADJUSTED OR REMOVED TO ACCOMMODATE SHORT-TERM ACTIVITIES (SUCH AS CLEARING, GRUBBING, OR PASSAGE OF VEHICLES), THE CONTROLS MUST BE RE-INSTALLED IMMEDIATELY AFTER THE SHORT-TERM ACTIVITY HAS BEEN COMPLETED. SEDIMENT CONTROL PRACTICES MUST BE RE-INSTALLED BEFORE THE NEXT PRECIPITATION EVENT, EVEN IF THE SHORT-TERM ACTIVITY IS NOT COMPLETE.
 - IF THE DOWNGRADIENT SEDIMENT CONTROLS ARE OVERLOADED (BASED ON FREQUENT FAILURE OR EXCESSIVE MAINTENANCE REQUIREMENT), INSTALL ADDITIONAL UPGRADIENT SEDIMENT CONTROL PRACTICES OR REDUNDANT BMPS TO ELIMINATE THE OVERLOADING AND AMEND THE SWPPP TO IDENTIFY THESE ADDITIONAL PRACTICES.
- SOIL STOCKPILE PERIMETER CONTROLS: TEMPORARY SOIL STOCKPILES WILL BE SURROUNDED BY: DOUBLE ROWS OF SILT FENCE, SEDIMENT CONTROL LOGS OR EQUIVALENT MEASURES, AND SHALL NOT BE PLACED IN ANY NATURAL BUFFERS OR SURFACE WATERS. (CSW PERMIT ITEMS 9.9 AND 9.10)
- STORM DRAIN INLET PROTECTION: (CSW PERMIT ITEMS 9.7 AND 9.8)
 - INLET PROTECTION BMPS WILL BE INSTALLED AROUND ALL STORM DRAIN INLETS DOWNGRADIENT OF CONSTRUCTION ACTIVITIES.
 - STORM DRAIN INLETS WILL BE PROTECTED UNTIL ALL SOURCES WITH POTENTIAL FOR DISCHARGING TO THE INLET HAVE BEEN STABILIZED.
 - INLET PROTECTION BMPS WILL BE: SEDIMENT CONTROL LOG, FILTER SACKS, OR EQUIVALENT MEASURES.
- VEHICLE TRACKING BMPS: (CSW PERMIT ITEMS 9.11 AND 9.12)
 - VEHICLE TRACKING BMPS WILL BE INSTALLED TO MINIMIZE THE TRACKING OUT OF SEDIMENT FROM THE CONSTRUCTION AREA AND WILL INCLUDE: ROCK PADS AND MUD MATS OR AN EQUIVALENT SYSTEM.
 - IF SUCH VEHICLE TRACKING BMPS ARE NOT ADEQUATE TO PREVENT SEDIMENT FROM BEING TRACKED ONTO THE PAVED ROAD, STREET SWEEPING WILL ALSO BE EMPLOYED. SEDIMENT WILL BE REMOVED BY SWEEPING WITHIN 24 HOURS.
- PROTECTION OF INFILTRATION AREAS: IF NECESSARY, ADDITIONAL SEDIMENT CONTROLS (E.G., DIVERSION BERMS) WILL BE INSTALLED TO KEEP RUNOFF AWAY FROM PLANNED INFILTRATION AREAS WHEN EXCAVATED PRIOR TO ESTABLISHING PERMANENT COVER WITHIN THE CONTRIBUTING DRAINAGE AREA. (CSW PERMIT ITEMS 16.4 AND 16.5)
- MINIMIZATION OF SOIL COMPACTION AND PRESERVATION OF TOPSOIL: SOIL COMPACTION WILL BE MINIMIZED AND TOPSOIL WILL BE PRESERVED WHERE POSSIBLE. (CSW PERMIT ITEMS 5.24, 9.14, AND 9.15)
- PRIORITY OF ONSITE INFILTRATION AND SEDIMENT REMOVAL: (CSW PERMIT ITEM 9.16)
 - PRIOR TO OFFSITE DISCHARGE, INFILTRATION AND SEDIMENT REMOVAL WILL BE IMPLEMENTED ONSITE WHERE POSSIBLE.
 - DISCHARGES FROM BMPS WILL BE DIRECTED TO VEGETATED AREAS OF THE SITE (INCLUDING ANY NATURAL BUFFERS) IN ORDER TO INCREASE SEDIMENT REMOVAL AND MAXIMIZE STORMWATER INFILTRATION. IF EROSION IS NOTED TO OCCUR AS THE RESULT OF SUCH A DISCHARGE, VELOCITY DISSIPATION BMPS WILL BE CONSIDERED AND INSTALLED AS NECESSARY TO PREVENT EROSION.
- BUFFER ZONE OR REDUNDANT SEDIMENT CONTROLS TO PROTECT SURFACE WATERS: (CSW PERMIT ITEM 9.17)
 - A 50-FOOT NATURAL BUFFER WILL BE PRESERVED IN CONSTRUCTION AREAS DISCHARGING TO A NON-SPECIAL/NON-IMPAIRED SURFACE WATER OR WETLAND. IF A NON-SPECIAL/NON-IMPAIRED SURFACE WATER OR WETLAND IS LOCATED WITHIN 50 FEET OF THE PROJECT'S EARTH DISTURBANCES AND STORMWATER FLOWS TO THE SURFACE WATER, OR WHEN A BUFFER IS INFEASIBLE, REDUNDANT SEDIMENT CONTROLS WILL BE PROVIDED.
 - A 100-FOOT NATURAL BUFFER WILL BE PRESERVED IN CONSTRUCTION AREAS DISCHARGING TO A SPECIAL OR IMPAIRED SURFACE WATER. IF A SPECIAL OR IMPAIRED SURFACE WATER IS LOCATED WITHIN 100 FEET OF THE PROJECT'S EARTH DISTURBANCES AND STORMWATER FLOWS TO THE SURFACE WATER, OR WHEN A BUFFER IS INFEASIBLE, REDUNDANT SEDIMENT CONTROLS WILL BE PROVIDED.
 - REDUNDANT PERIMETER CONTROLS WILL BE INSTALLED AT LEAST 5 FEET APART UNLESS LIMITED BY LACK OF AVAILABLE SPACE.
- USE OF SEDIMENTATION TREATMENT CHEMICALS (E.G., POLYMERS, FLOCCULANTS, ETC.) IS NOT ANTICIPATED AS PART OF THE PROJECT. (CSW PERMIT ITEMS 5.22 AND 9.18)
- THE PROJECT WILL NOT INCLUDE 10 OR MORE ACRES OF DISTURBED SOIL DRAINING TO A COMMON LOCATION OR 5 OR MORE ACRES DRAINING TO A COMMON LOCATION WITHIN 1 MILE OR A SPECIAL OR IMPAIRED WATER THEREFORE TEMPORARY SEDIMENT BASINS ARE NOT REQUIRED. (CSW PERMIT ITEMS 5.6, 9.13, AND 23.10 AND SECTION 14)
- DEWATERING AND BASIN DRAINING: (CSW PERMIT SECTION 10 AND ITEM 10.5)
 - THE FOLLOWING WILL BE USED TO TREAT/DISPOSE OF TURBID OR SEDIMENT-LADEN WATER DURING DEWATERING OR BASIN DRAINING: TEMPORARY OR PERMANENT SEDIMENT BASINS OR EQUIVALENT MEASURES.
 - THE FOLLOWING WILL BE USED TO PREVENT EROSION OR SCOUR OF DISCHARGE POINTS DURING DEWATERING OR BASIN DRAINING: RIPRAP OR EQUIVALENT MEASURES.
 - FILTERS FOR BACKWASH WATER WILL BE MANAGED ON THE SITE OR PROPERLY DISPOSED OF BY: INCORPORATING BACKWASH WATER INTO TEMPORARY OR PERMANENT SEDIMENT BASINS OR EQUIVALENT MEASURES.
- BMP DESIGN FACTORS: THE FOLLOWING BMP DESIGN FACTORS HAVE BEEN CONSIDERED IN DESIGNING THE TEMPORARY EROSION PREVENTION AND SEDIMENT CONTROL BMPS:

5.0 PERMANENT STORMWATER MANAGEMENT SYSTEM:

A PERMANENT STORMWATER MANAGEMENT SYSTEM IS REQUIRED IF THE PROJECT RESULTS IN ONE ACRE OR MORE OF NEW IMPERVIOUS SURFACES OR RESULTS IN A NET INCREASE OF ONE OR MORE ACRES OF CUMMULATIVE NEW IMPERVIOUS SURFACES IN TOTAL OR IF THE PROJECT IS PART OF A LARGER PLAN OF DEVELOPMENT. (CSW PERMIT ITEM 15.3)

5.1 A PERMANENT STORMWATER TREATMENT SYSTEM IS NOT REQUIRED. (CSW PERMIT ITEMS 5.15, 15.4-15.9, AND 23.14)

5.2 THIS IS NOT A LINEAR PROJECT WITH LACK OF RIGHT OF WAY. (CSW PERMIT ITEM 15.9)

5.3 THIS PROJECT DOES NOT DISCHARGE TO A TROUT STREAM (OR A TRIBUTARY TO A TROUT STREAM). (CSW PERMIT ITEM 23.12)

6.0 INSPECTION AND MAINTENANCE ACTIVITIES:

6.1 PERSONS WITH REQUIRED TRAINING: TRAINED INDIVIDUALS INCLUDE THOSE PARTIES RESPONSIBLE FOR INSTALLING, SUPERVISING, REPAIRING, INSPECTING, AND MAINTAINING EROSION PREVENTION AND SEDIMENT CONTROL BMPs AT THE SITE. TRAINED INDIVIDUALS ARE ALSO RESPONSIBLE FOR IMPLEMENTATION OF THE SWPPP AND COMPLIANCE WITH THE GENERAL PERMIT UNTIL THE CONSTRUCTION ACTIVITIES ARE COMPLETE, PERMANENT COVER HAS BEEN ESTABLISHED, AND A NOTICE OF TERMINATION (NOT) HAS BEEN SUBMITTED. (CSW PERMIT ITEMS 5.20, 5.21, AND 11.9 AND SECTION 21)

THESE INDIVIDUALS WILL BE TRAINED IN ACCORDANCE WITH THE REQUIREMENTS OF THE GENERAL PERMIT, INCLUDING THE REQUIREMENT THAT THE CONTENT AND EXTENT OF TRAINING WILL BE COMMENSURATE WITH THE INDIVIDUAL'S JOB DUTIES AND RESPONSIBILITIES.

BELOW IS A LIST OF PEOPLE RESPONSIBLE FOR THIS PROJECT WHO ARE KNOWLEDGEABLE AND EXPERIENCED IN THE APPLICATION OF EROSION PREVENTION AND SEDIMENT CONTROL BMPs.

TRAINED INDIVIDUAL	RESPONSIBILITY	TRAINING ENTITY*	TRAINING DATE
ERIC FITZGERALD	PREPARATION OF THE SWPPP	UNIVERSITY OF MINNESOTA	MAY 2025
TBD	OVERSIGHT OF SWPPP IMPLEMENTATION, REVISION, AND AMENDMENT	TBD	TBD
TBD	PERFORMANCE OF SWPPP INSPECTIONS	TBD	TBD
TBD	PERFORMANCE OR SUPERVISION OF INSTALLATION, MAINTENANCE, AND REPAIR OF BMPs	TBD	TBD

*TRAINING DOCUMENTATION AVAILABLE UPON REQUEST.

6.2 FREQUENCY OF INSPECTIONS: A TRAINED PERSON WILL ROUTINELY INSPECT THE ENTIRE CONSTRUCTION SITE. (CSW PERMIT ITEMS 11.2, 11.10, AND 23.13)

- AT LEAST ONCE EVERY 7 DAYS DURING ACTIVE CONSTRUCTION
- WITHIN 24 HOURS AFTER A RAINFALL EVENT GREATER THAN 0.5 INCHES IN 24 HOURS

INSPECTION FREQUENCY MAY BE ADJUSTED UNDER THE FOLLOWING CIRCUMSTANCES:

- WHERE PARTS OF THE CONSTRUCTION AREAS HAVE PERMANENT COVER, BUT WORK REMAINS ON OTHER PARTS OF THE SITE, INSPECTIONS OF THE AREAS WITH PERMANENT COVER MAY BE REDUCED TO ONCE PER MONTH.
- WHERE CONSTRUCTION AREAS HAVE PERMANENT COVER AND NO CONSTRUCTION ACTIVITY IS OCCURRING ON THE SITE, INSPECTIONS CAN BE REDUCED TO ONCE PER MONTH AND, AFTER 12 MONTHS, MAY BE SUSPENDED COMPLETELY UNTIL CONSTRUCTION ACTIVITY RESUMES.
- WHERE CONSTRUCTION ACTIVITY HAS BEEN SUSPENDED DUE TO FROZEN GROUND CONDITIONS, THE INSPECTIONS MAY BE SUSPENDED. THE REQUIRED INSPECTIONS AND MAINTENANCE SCHEDULE MUST BEGIN WITHIN 24 HOURS AFTER RUNOFF OCCURS AT THE SITE OR UPON RESUMING CONSTRUCTION, WHICHEVER COMES FIRST.

6.3 INSPECTION REQUIREMENTS: EACH CONSTRUCTION STORMWATER SITE INSPECTION WILL INCLUDE INSPECTION OF THE FOLLOWING AREAS: (CSW PERMIT ITEMS 11.3 THROUGH 11.8)

- ALL EROSION PREVENTION AND SEDIMENT CONTROL BMPs AND POLLUTION PREVENTION MANAGEMENT MEASURES
- SURFACE WATERS FOR EVIDENCE OF EROSION AND SEDIMENT DEPOSITION
- CONSTRUCTION SITE VEHICLE EXIT LOCATIONS FOR EVIDENCE OF OFFSITE SEDIMENT TRACKING
- STREETS AND OTHER AREAS ADJACENT TO THE PROJECT FOR EVIDENCE OF OFF SITE ACCUMULATIONS OF SEDIMENT

6.4 MAINTENANCE REQUIREMENTS: MAINTENANCE OF THE FOLLOWING AREAS AND BMPs WILL BE PERFORMED AS FOLLOWS: (CSW PERMIT ITEMS 11.3 THROUGH 11.8)

- NONFUNCTIONAL BMPs WILL BE REPAIRED, REPLACED, OR SUPPLEMENTED WITH FUNCTIONAL BMPs BY THE END OF THE NEXT BUSINESS DAY AFTER DISCOVERY OR AS SOON AS FIELD CONDITIONS ALLOW ACCESS.
- PERIMETER CONTROL DEVICES WILL BE REPAIRED, REPLACED, OR SUPPLEMENTED WHEN THEY BECOME NONFUNCTIONAL OR THE SEDIMENT REACHES 1/2 THE HEIGHT OF THE DEVICE.
- TEMPORARY AND PERMANENT SEDIMENTATION BASINS WILL BE DRAINED AND THE SEDIMENT REMOVED WHEN THE DEPTH OF SEDIMENT COLLECTED IN THE BASIN REACHES 1/2 THE STORAGE VOLUME.
- DELTAS AND SEDIMENT DEPOSITED IN SURFACE WATERS WILL BE REMOVED, AND THE AREAS WHERE SEDIMENT REMOVAL RESULTS IN EXPOSED SOIL WILL BE RE-STABILIZED. THE REMOVAL AND STABILIZATION WILL BE COMPLETED WITHIN 7 CALENDAR DAYS OF DISCOVERY UNLESS PRECLUDED BY LEGAL, REGULATORY, OR PHYSICAL ACCESS CONSTRAINTS. IF PRECLUDED DUE TO ACCESS CONSTRAINTS, REASONABLE EFFORTS TO OBTAIN ACCESS WILL BE USED. REMOVAL AND STABILIZATION WILL TAKE PLACE WITHIN 7 CALENDAR DAYS OF OBTAINING ACCESS.
- TRACKED SEDIMENT ON PAVED SURFACES WILL BE REMOVED WITHIN 1 CALENDAR DAY OF DISCOVERY.
- AREAS UNDERGOING STABILIZATION WILL BE RESTABILIZED AS NECESSARY TO ACHIEVE REQUIRED COVER.

6.5 RECORDKEEPING REQUIREMENTS: (CSW PERMIT ITEMS 11.11 AND 24.5 AND SECTIONS 6 AND 20)

1. ALL INSPECTIONS AND MAINTENANCE ACTIVITIES WILL BE RECORDED IN WRITING WITHIN 24 HOURS OF BEING CONDUCTED AND THESE RECORDS WILL BE RETAINED WITH THE SWPPP. RECORDS OF EACH INSPECTION AND MAINTENANCE ACTIVITY WILL INCLUDE THE DATE AND TIME; NAME OF INSPECTOR(S); FINDINGS OF INSPECTIONS; CORRECTIVE ACTIONS (INCLUDING DATES, TIMES, AND PARTY COMPLETING MAINTENANCE ACTIVITIES); AND DATE OF ALL RAINFALL EVENTS GREATER THAN 0.5 INCHES IN 24 HOURS AND THE AMOUNT OF RAINFALL FOR EACH EVENT.
 - a. IF ANY DISCHARGE IS OBSERVED DURING THE INSPECTION, THE LOCATION AND APPEARANCE OF THE DISCHARGE (I.E., COLOR, ODOR, SETTLED OR SUSPENDED SOLIDS, OIL SHEEN, AND OTHER OBVIOUS INDICATORS OF POLLUTANTS) WILL BE DOCUMENTED AND A PHOTOGRAPH WILL BE TAKEN.
2. THE SWPPP WILL BE AMENDED TO INCLUDE ADDITIONAL OR MODIFIED BMPs TO CORRECT PROBLEMS OR ADDRESS SITUATIONS WHENEVER THERE IS A CHANGE IN DESIGN, CONSTRUCTION, OPERATION, MAINTENANCE, WEATHER, OR SEASONAL CONDITIONS THAT HAS A SIGNIFICANT EFFECT ON THE DISCHARGE OF POLLUTANTS TO SURFACE WATERS OR GROUNDWATER.
 - a. THE SWPPP WILL BE AMENDED WHEN INSPECTIONS OR INVESTIGATIONS BY THE SITE OWNER, OPERATOR, OR CONTRACTORS OR BY USEPA/MPCA OFFICIALS INDICATE THAT THE SWPPP IS NOT EFFECTIVE IN ELIMINATING OR MINIMIZING THE DISCHARGE OF POLLUTANTS TO SURFACE WATERS OR GROUNDWATER; THE DISCHARGES ARE CAUSING WATER QUALITY STANDARD EXCEEDANCES; OR THE SWPPP IS NOT CONSISTENT WITH A USEPA APPROVED TMDL.
 - b. ANY AMENDMENTS TO THE SWPPP PROPOSED AS A RESULT OF THE INSPECTION WILL BE DOCUMENTED AS REQUIRED WITHIN 7 CALENDAR DAYS.
 - c. AMENDMENTS WILL BE COMPLETED BY AN APPROPRIATELY TRAINED INDIVIDUAL. CHANGES INVOLVING THE USE OF A LESS STRINGENT BMP WILL INCLUDE A JUSTIFICATION DESCRIBING HOW THE REPLACEMENT BMP IS EFFECTIVE FOR THE SITE CHARACTERISTICS.
3. RECORDS RETENTION: THE SWPPP, INCLUDING ALL CHANGES TO IT, AND INSPECTION AND MAINTENANCE RECORDS WILL BE KEPT AT THE SITE DURING CONSTRUCTION BY THE PERMITTEE WHO HAS OPERATIONAL CONTROL OF THE SITE. THE SWPPP CAN BE KEPT IN EITHER A FIELD OFFICE OR IN AN ON SITE VEHICLE DURING NORMAL WORKING HOURS.
4. RECORD AVAILABILITY: THE PERMITTEES WILL MAKE THE SWPPP, INCLUDING INSPECTION REPORTS, MAINTENANCE RECORDS, AND TRAINING RECORDS, AVAILABLE TO FEDERAL, STATE, AND LOCAL OFFICIALS WITHIN THREE DAYS UPON REQUEST FOR THE DURATION OF THE PERMIT COVERAGE AND FOR THREE YEARS FOLLOWING THE NOTICE OF TERMINATION.

7.0 POLLUTION PREVENTION MEASURES:

1. ANY CONSTRUCTION PRODUCTS AND LANDSCAPE MATERIALS THAT HAVE THE POTENTIAL TO LEACH POLLUTANTS WILL BE STORED UNDER COVER (E.G., PLASTIC SHEETING OR TEMPORARY ROOFS) TO PREVENT DISCHARGE OF POLLUTANTS THROUGH MINIMIZATION OF CONTACT WITH STORMWATER. STORAGE OF SUCH MATERIALS WITHIN THE PROJECT AREA WILL BE MINIMIZED TO THE EXTENT POSSIBLE. (CSW PERMIT ITEM 12.2)
2. PESTICIDES, FERTILIZERS, AND TREATMENT CHEMICALS WILL BE STORED UNDER COVER (E.G., PLASTIC SHEETING, TEMPORARY ROOFS, WITHIN A BUILDING, OR IN WEATHER-PROOF CONTAINERS) TO PREVENT DISCHARGE OF POLLUTANTS THROUGH MINIMIZATION OF CONTACT WITH STORMWATER. STORAGE OF SUCH MATERIALS WITHIN THE PROJECT AREA WILL BE MINIMIZED TO THE EXTENT POSSIBLE. (CSW PERMIT ITEM 12.3)
3. HAZARDOUS MATERIALS AND TOXIC WASTE (E.G., OIL, DIESEL FUEL, GASOLINE, HYDRAULIC FLUIDS, PAINT SOLVENTS, PETROLEUM-BASED PRODUCTS, WOOD PRESERVATIVES, ADDITIVES, CURING COMPOUNDS, AND ACIDS) WILL BE STORED AND DISPOSED OF IN COMPLIANCE WITH MINNESOTA RULES CHAPTER 7045, INCLUDING SECONDARY CONTAINMENT (AS APPLICABLE). HAZARDOUS MATERIALS WILL BE PROPERLY STORED IN SEALED CONTAINERS TO PREVENT SPILLS, LEAKS, OR OTHER DISCHARGES AND PREVENT PRECIPITATION FROM FALLING ONTO THE CONTAINERS OR STORED HAZARDOUS MATERIALS. (CSW PERMIT ITEMS 2.3 AND 12.4)
4. SOLID WASTE WILL BE COLLECTED, STORED, AND DISPOSED OF PROPERLY IN COMPLIANCE WITH MINNESOTA RULES CHAPTER 7035. THIS INCLUDES STORAGE WITHIN COVERED TRASH CONTAINERS AND DAILY REMOVAL OF LITTER AND DEBRIS. STORAGE OF SOLID WASTE WITHIN THE PROJECT AREA WILL BE MINIMIZED TO THE EXTENT POSSIBLE. (CSW PERMIT ITEM 12.5)
5. PORTABLE TOILETS WILL BE LOCATED AWAY FROM SURFACE WATERS AND POSITIONED AND SECURED TO THE GROUND SO THEY WILL NOT BE TIPPED OR KNOCKED OVER. SANITARY WASTE WILL BE DISPOSED OF IN ACCORDANCE WITH MINNESOTA RULES, CHAPTER 7041. PORTABLE TOILETS WILL BE PERIODICALLY EMPTIED AND THE WASTE HAULED OFF-SITE BY A LICENSED HAULER. (CSW PERMIT ITEM 12.6)
6. VEHICLE FUELING WILL ONLY OCCUR IN DESIGNATED AREAS. SPILL KITS SIZED APPROPRIATELY FOR THE AMOUNT OF FUELING TAKING PLACE WILL BE LOCATED. SPILL KITS WILL BE CLEARLY LABELED AND CONTAIN MATERIALS TO ASSIST IN SPILL CLEANUP INCLUDING ABSORBENT PADS, BOOMS FOR CONTAINING SPILLS, AND HEAVY-DUTY PROTECTIVE GLOVES. SPILLS WILL BE REPORTED TO THE MINNESOTA DUTY OFFICER AS REQUIRED BY MINNESOTA STATUTES, SECTION 115.061. (CSW PERMIT ITEMS 2.3 AND 12.7)
 - a. ANY FUEL TANKS BROUGHT ON-SITE WILL HAVE PROPERLY SIZED CONTAINMENT AND WILL NOT BE TOPPED OFF TO AVOID SPILLS FROM OVERFILLING. FUEL TANKS WILL MEET INDUSTRY STANDARDS (DESIGNED TO HOLD FUEL TYPE, PROPERLY MAINTAINED, NOT ILLEGALLY MODIFIED, NOT MISSING LEAK INDICATOR FLOATS FOR DOUBLE WALLED TANKS, SIGHT GAUGES NOT USED, ETC.) OR BE REMOVED FROM THE WORK AREA.
 - b. GUIDELINES FOR SPILL PREVENTION AND RESPONSE INCLUDE:
 - TAKE REASONABLE STEPS TO PREVENT THE DISCHARGE OF SPILLED OR LEAKED CHEMICALS, INCLUDING FUEL, FROM ANY AREA WHERE CHEMICALS OR FUEL WILL BE LOADED OR UNLOADED, INCLUDING THE USE OF DRIP PANS OR ABSORBENTS UNLESS INFEASIBLE;
 - PERFORM REGULAR PREVENTATIVE MAINTENANCE ON TANKS AND FUEL LINES;
 - INSPECT PUMPS, CYLINDERS, HOSES, VALVES, AND OTHER MECHANICAL EQUIPMENT ON-SITE FOR DAMAGE OR DETERIORATION;
 - DO NOT WASH OR RINSE FUELING AREAS WITH WATER;
 - MAINTAIN ADEQUATE SUPPLIES TO CLEAN UP DISCHARGED MATERIALS AND PROVIDE AN APPROPRIATE DISPOSAL METHOD FOR RECOVERED SPILLED MATERIALS;
 - REPORT AND CLEAN UP SPILLS IMMEDIATELY AS REQUIRED BY MINNESOTA STATUTES, SECTION 115.061, USING DRY CLEAN UP MEASURES WHERE POSSIBLE; AND
 - MAINTAIN COPIES OF SAFETY DATA SHEETS (SDSS) FOR HAZARDOUS MATERIALS ON-SITE IN LOCATIONS READILY AVAILABLE TO EMERGENCY RESPONDERS.
7. IF VEHICLE AND EQUIPMENT WASHING IS NECESSARY, A VEHICLE WASH STATION WILL BE LOCATED IN A DESIGNATED AREA. RUNOFF FROM THE WASHING AREA WILL BE CONTAINED IN A SEDIMENT BASIN AND WASTE FROM THE WASHING ACTIVITY WILL BE PROPERLY DISPOSED OF. ANY SOAPS, DETERGENTS, OR SOLVENTS WILL BE PROPERLY USED AND STORED. ANY DETERGENTS AND OTHER CLEANERS NOT PERMITTED FOR DISCHARGE WILL NOT BE USED. (CSW PERMIT ITEMS 2.3 AND 12.8)
8. THE PROJECT WILL NOT RESULT IN CONCRETE OR OTHER WASHOUT ACTIVITIES. NO CONCRETE WASHOUT WILL BE ALLOWED ON SITE. (CSW PERMIT ITEMS 2.3 AND 12.9)

8.0 PERMANENT COVER AND PERMIT TERMINATION CONDITIONS:

1. THE AREAS DISTURBED DURING CONSTRUCTION WILL BE STABILIZED WITH PERMANENT COVER UPON COMPLETION OF WORK. PERMANENT COVER MAY BE VEGETATIVE OR NON-VEGETATIVE, AS APPROPRIATE. ESTABLISHMENT OF PERMANENT COVER MAY INCLUDE THE FOLLOWING ACTIVITIES: SEEDING, MULCHING, AND EROSION CONTROL BLANKETS. (CSW PERMIT ITEM 5.17)
2. FOR A CONSTRUCTION-SITE TO ACHIEVE "PERMANENT COVER", THE FOLLOWING REQUIREMENTS MUST BE COMPLETED PRIOR TO TERMINATION OF PERMIT COVERAGE: (CSW PERMIT SECTIONS 4 AND 13)
 - a. ALL SOIL DISTURBING CONSTRUCTION ACTIVITIES HAVE BEEN COMPLETED AND PERMANENT COVER HAS BEEN INSTALLED OVER ALL AREAS. VEGETATIVE COVER CONSISTS OF A UNIFORM PERENNIAL VEGETATION WITH A DENSITY OF 70% OF ITS EXPECTED FINAL GROWTH. VEGETATION IS NOT REQUIRED WHERE THE FUNCTION OF A SPECIFIC AREA DICTATES NO VEGETATION (SUCH AS IMPERVIOUS SURFACES OR THE BASE OF A SAND FILTER).
 - b. ALL SEDIMENT HAS BEEN REMOVED FROM CONVEYANCE SYSTEMS, INCLUDING CULVERTS.
 - c. ALL TEMPORARY SYNTHETIC EROSION PREVENTION AND SEDIMENT CONTROL BMPs HAVE BEEN REMOVED. BMPs DESIGNED TO DECOMPOSE ON-SITE MAY BE LEFT IN PLACE.

WITHIN 30 DAYS AFTER THE TERMINATION CONDITIONS ARE COMPLETE, A NOTICE OF TERMINATION (NOT) FORM WILL BE SUBMITTED TO THE MPCA.

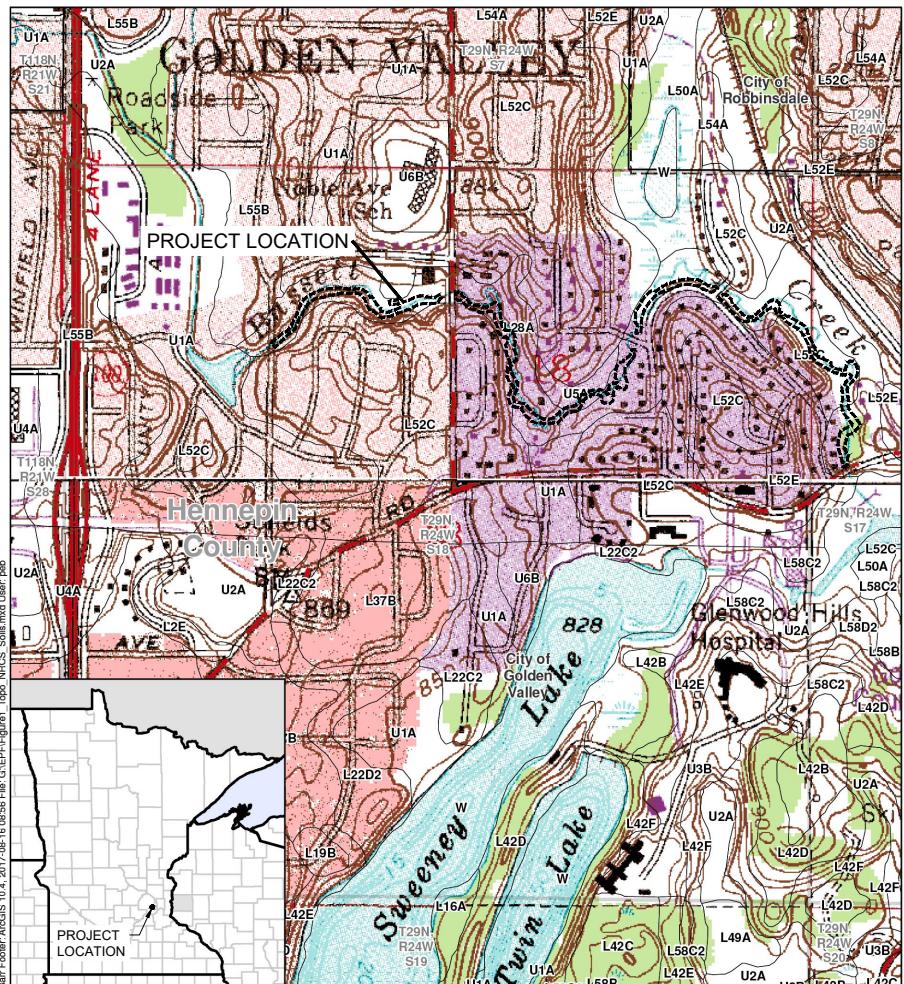


Figure 1

TOPOGRAPHIC MAP WITH SURFACE WATERS AND SOIL TYPES
Stormwater Pollution Prevention Plan

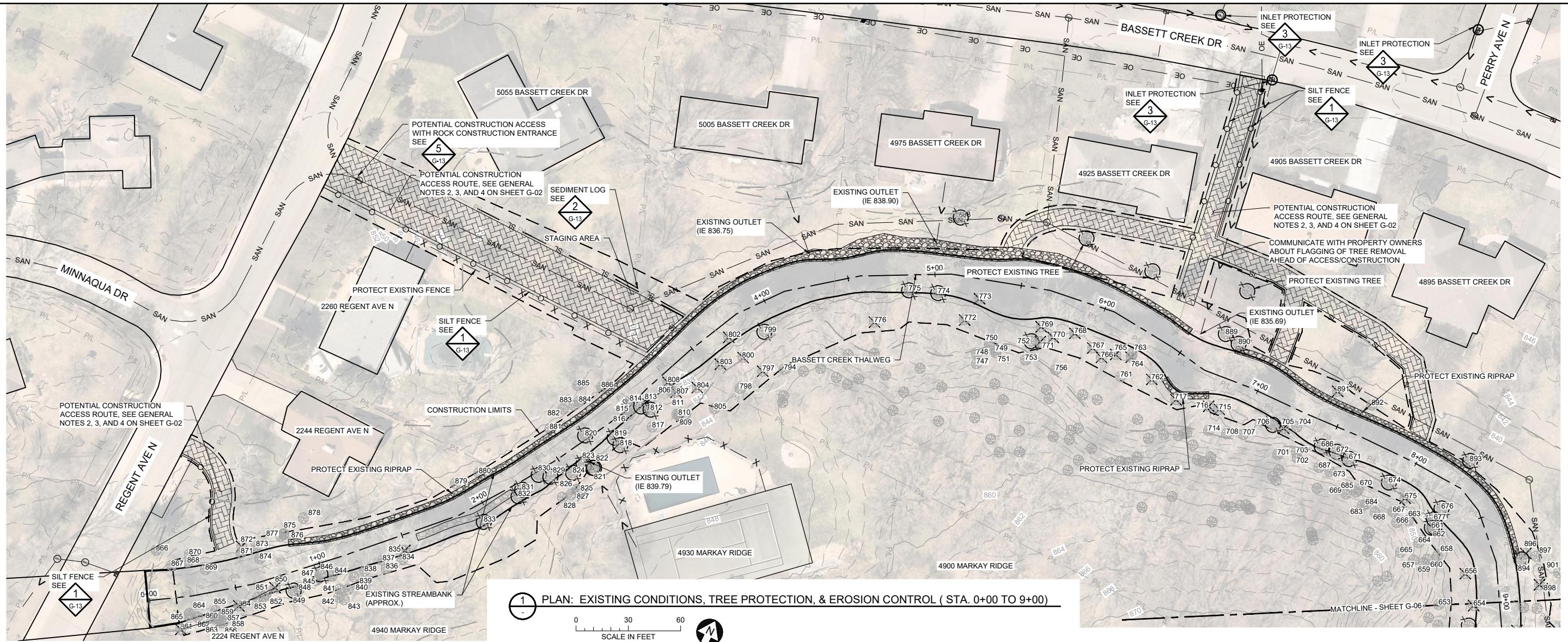
Hennepin County, Minnesota

- Survey Area Status Map
- Statewide SSURGO Data
- County Boundary

(SEE PAGE 2 OF 2)

90% DESIGN
ISSUED FOR REVIEW
NOT FOR CONSTRUCTION

BARR PROJECT #	23272114.00
DWG #	G-04
REV #	B



ORIGINAL DRAWING SIZE: ANSI/FI-B11.00 X 17.00 (INCHES) PLOT SCALE: 1:12 PLT DATE: 1/13/2025 11:17 AM
CADD USER: ERIC P. FITZGERALD FILE: MADE/DESIGN/2022/214.00/2327114.G-06.DWG

TREE ID#	TREE SPECIES	DBH (INCHES)	TREE HEALTH	REMOVE
653	Ash/Green	12	Dead	
654	Box Elder	16	Dead	X
656	Box Elder	8	Dead	X
657	Basswood/American	20	Healthy	
658	Basswood/American	23	Healthy	
659	Basswood/American	8	Healthy	
660	Ironwood	5	Healthy	
661	Basswood/American	18	Healthy	
662	Basswood/American	23	Healthy	
663	Basswood/American	8	Healthy	
664	Basswood/American	13	Healthy	
665	Ironwood	4	Healthy	
666	Oak/Bur	23	Healthy	
667	Ironwood	4	Healthy	
668	Ironwood	5	Healthy	
669	Ironwood	8	Healthy	
670	Ironwood	7	Healthy	
671	Ironwood	7	Healthy	
672	Birch/Paper	13	Healthy	
673	Ironwood	5	Healthy	
674	Ironwood	4	Healthy	
675	Buckthorn	4	Healthy	X
676	Basswood/American	17	Healthy	
677	Basswood/American	8	Healthy	
683	Ash/Green	12	Dead	

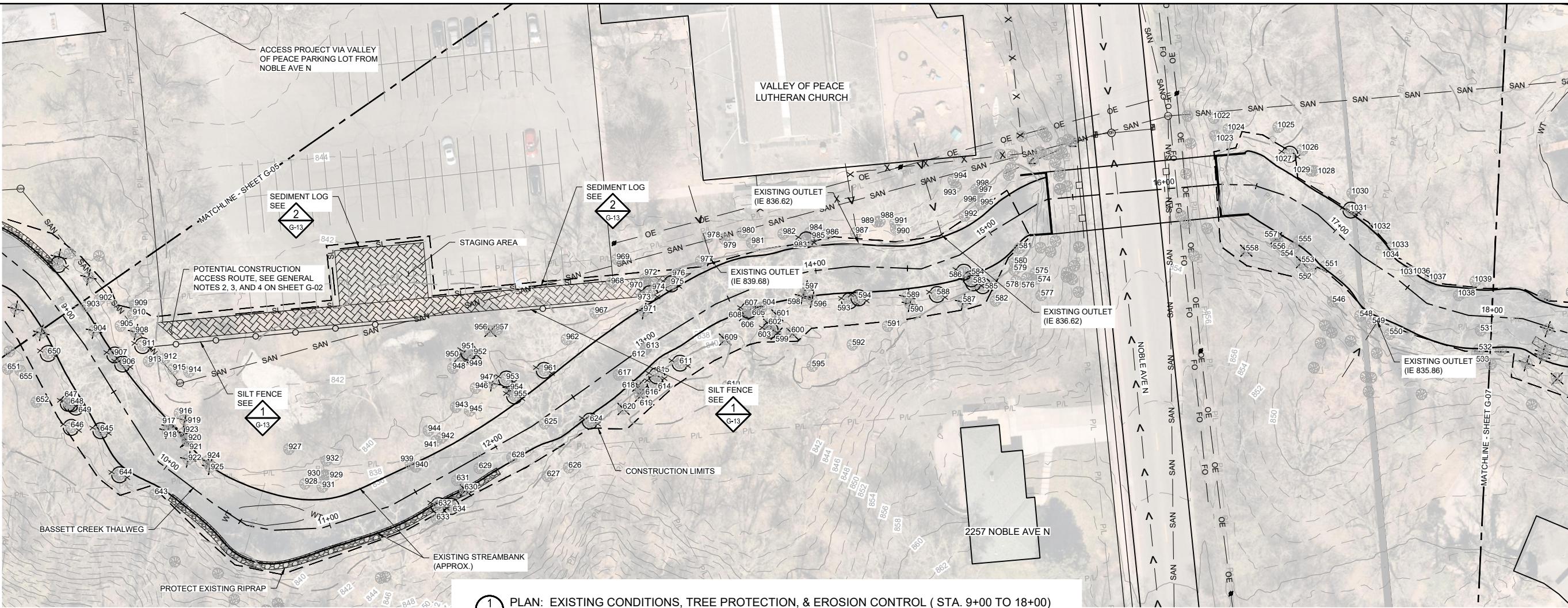
TREE ID#	TREE SPECIES	DBH (INCHES)	TREE HEALTH	REMOVE
684	Ironwood	9	Healthy	
685	Ironwood	8	Healthy	
686	Ironwood	4	Healthy	
687	Ironwood	5	Healthy	
701	Basswood/American	25	Healthy	
702	Ironwood	9	Healthy	
703	Ironwood	6	Healthy	
704	Ash/Green	17	Dead	
705	Buckthorn	6	Healthy	X
706	Basswood/American	21	Healthy	
707	Basswood/American	25	Healthy	
708	Basswood/American	22	Healthy	
714	Ironwood	5	Healthy	
715	Kentucky Coffeetree	5	Healthy	X
716	Box Elder	18	Healthy	X
717	Buckthorn	5	Healthy	X
747	Basswood/American	25	Healthy	
748	Basswood/American	24	Dead	
749	Ironwood	5	Healthy	
750	Ironwood	4	Healthy	
751	Elm/American	12	Healthy	
752	Oak/Bur	15	Healthy	X
753	Oak/Bur	18	Dead	
756	Oak/Bur	23	Healthy	
761	Box Elder	10	Healthy	

TREE ID#	TREE SPECIES	DBH (INCHES)	TREE HEALTH	REMOVE
762	Box Elder	13	Healthy	X
763	Ash/Black	6	Healthy	
764	Buckthorn	4	Healthy	X
765	Buckthorn	4	Healthy	X
766	Buckthorn	7	Healthy	X
767	Box Elder	10	Healthy	X
768	Ash/Green	7	Healthy	X
769	Buckthorn	6	Healthy	X
770	Buckthorn	4	Healthy	X
771	Ash/White	11	Dead	X
772	Buckthorn	8	Healthy	X
773	Ash/Green	14	Dead	X
774	Basswood/American	23	Healthy	
775	Cedar/White	11	Healthy	
776	Box Elder	15	Healthy	X
794	Box Elder	14	Healthy	
797	Buckthorn	5	Healthy	X
798	Oak/Bur	26	Dead	
799	Hackberry	12	Healthy	
800	Buckthorn	4	Healthy	X
802	Box Elder	13	Healthy	X
803	Box Elder	4	Healthy	X
804	Box Elder	12	Healthy	X
805	Maple/Red	13	Healthy	
806	Box Elder	15	Healthy	

TREE ID#	TREE SPECIES	DBH (INCHES)	TREE HEALTH	REMOVE
807	Box Elder	5	Healthy	X
808	Elm/American	4	Healthy	
809	Birch/River	12	Healthy	
810	Birch/River	11	Healthy	
811	Birch/River	11	Healthy	
812	Mulberry	5	Healthy	X
813	Elm/American	5	Healthy	
814	Ash/Green	6	Healthy	
815	Ash/Green	6	Healthy	
816	Ash/Green	13	Healthy	
817	Maple/Silver	15	Healthy	
818	Maple/Silver	13	Healthy	
819	Ash/Green	6	Healthy	
820	Elm/American	9	Healthy	
821	Maple/Silver	16	Healthy	
822	Maple/Silver	13	Healthy	
823	Maple/Silver	10	Healthy	
824	Maple/Silver	16	Healthy	
825	Birch/River	16	Healthy	
826	Birch/River	10	Healthy	
827	Birch/River	15	Healthy	
828	Birch/River	9	Healthy	
829	Box Elder	10	Healthy	
830	Mulberry	8	Healthy	X
831	Mulberry	14	Healthy	X

TREE ID#	TREE SPECIES	DBH (INCHES)	TREE HEALTH	REMOVE
832	Mulberry	16	Healthy	
833	Elm/American	4	Healthy	
834	Maple/Silver	26	Healthy	
835	Box Elder	8	Healthy	X
836	Ash/Green	5	Healthy	
837	Maple/Silver	23	Healthy	
838	Maple/Silver	14	Healthy	
839	Maple/Red	7	Healthy	
840	Cottonwood	11	Healthy	
841	Cottonwood	28	Healthy	
842	Maple/Silver	13	Healthy	
843	Maple/Silver	13	Healthy	
844	Ash/Green	4	Healthy	
845	Ash/Green	10	Healthy	
846	Elm/American	15	Healthy	
847	Ash/White	4	Dead	
848	Elm/American	11	Healthy	
849	Elm/American	12	Healthy	
850	Ash/Green	4	Dying	X
851	Elm/American	5	Healthy	
852	Elm/American	4	Healthy	
853	Elm/American	5	Healthy	
854	Ash/Green	12	Dying	X
855	Elm/American	12	Healthy	
856	Ash/Green	14	Healthy	
881	Box Elder	10	Healthy	

TREE ID#	TREE SPECIES	DBH (INCHES)	TREE HEALTH	REMOVE
857	Ash/Green	4	Healthy	
858	Ash/Green	4	Healthy	
859	Elm/American	6	Healthy	
860	Elm/American	4	Healthy	
861	Ash/Green	14	Dying	X
862	Elm/American	5	Healthy	
863	Ash/Green	17	Dying	X
864	Ash/Green	16	Healthy	
865	Willow/Black	35	Healthy	
866	Pine/Austrian	16	Healthy	
867	Mulberry	11	Healthy	
868	Elm/American	5	Healthy	
869	Elm/American	6	Healthy	
870	Pine/Austrian	16	Healthy	
871	Elm/American	11	Healthy	
872	Buckthorn	4	Healthy	X
873	Elm/American	12	Healthy	



1 PLAN: EXISTING CONDITIONS, TREE PROTECTION, & EROSION CONTROL (STA. 9+00 TO 18+00)

0 30 60
SCALE IN FEET



ORIGINAL DRAWING SIZE: ANSI FULL-BLEED B11.00 X 17.00 (INCHES) PLOT SCALE: 1:12 PLOT DATE: 1/13/2025 11:17 AM
CADD USER: ERIC P. FITZGERALD FILE: MADE/DESIGN/2022/14/0023272114_G-06.DWG

TREE ID#	TREE SPECIES	DBH (INCHES)	TREE HEALTH	REMOVE	TREE ID#	TREE SPECIES	DBH (INCHES)	TREE HEALTH	REMOVE	TREE ID#	TREE SPECIES	DBH (INCHES)	TREE HEALTH	REMOVE	TREE ID#	TREE SPECIES	DBH (INCHES)	TREE HEALTH	REMOVE	TREE ID#	TREE SPECIES	DBH (INCHES)	TREE HEALTH	REMOVE	TREE ID#	TREE SPECIES	DBH (INCHES)	TREE HEALTH	REMOVE
531	Ash/Green	8	Healthy		585	Box Elder	9	Healthy		613	Basswood/American	12	Healthy		652	Box Elder	15	Healthy		929	Ash/Black	5	Healthy		970	Ash/Green	6	Healthy	
532	Ironwood	4	Healthy		586	Maple/Silver	8	Healthy		614	Basswood/American	6	Healthy		655	Buckthorn	5	Healthy	X	930	Ash/Black	4	Healthy		971	Box Elder	5	Healthy	X
533	Hackberry	4	Healthy		587	Box Elder	13	Dead	X	615	Basswood/American	9	Healthy		902	Cottonwood	36	Healthy		931	Elm/American	17	Healthy		972	Elm/American	6	Healthy	
534	Basswood/American	22	Healthy		588	Walnut/Black	4	Healthy		616	Buckthorn	4	Healthy	X	903	Elm/American	8	Healthy		932	Elm/American	23	Healthy		973	Cottonwood	32	Healthy	
535	Hackberry	5	Healthy		589	Ash/Green	10	Dead	X	617	Basswood/American	11	Healthy		904	Ash/White	4	Healthy	X	933	Basswood/American	10	Healthy		974	Elm/American	4	Healthy	
546	Ironwood	8	Healthy		590	Ash/Green	4	Healthy	X	618	Buckthorn	4	Healthy	X	905	Cottonwood	36	Healthy		940	Basswood/American	14	Healthy		975	Elm/American	10	Healthy	
548	Ironwood	5	Healthy		591	Box Elder	14	Healthy		619	Buckthorn	6	Healthy	X	907	Box Elder	12	Healthy		941	Elm/American	16	Healthy		976	Mulberry	13	Healthy	X
549	Ironwood	7	Healthy		592	Ash/Green	4	Healthy		620	Buckthorn	4	Healthy	X	908	Cottonwood	10	Dead	X	942	Elm/American	16	Healthy		977	Elm/American	4	Healthy	
550	Ironwood	7	Healthy		593	Box Elder	13	Healthy		624	Basswood/American	7	Healthy		909	Basswood/American	11	Healthy		943	Elm/American	9	Healthy		978	Ash/Green	4	Healthy	
551	Ironwood	7	Healthy		594	Box Elder	10	Healthy		625	Cottonwood	45	Healthy		910	Basswood/American	13	Healthy		944	Elm/American	11	Healthy		979	Box Elder	4	Healthy	
552	Ironwood	7	Healthy		595	Box Elder	11	Healthy		626	Burning Bush	5	Healthy		911	Box Elder	10	Healthy		945	Box Elder	12	Healthy		980	Ash/Green	6	Healthy	
553	Buckthorn	4	Healthy	X	596	Ash/Green	15	Dead	X	627	Basswood/American	7	Healthy		912	Elm/American	7	Healthy		946	Ash/Green	12	Healthy		981	Box Elder	15	Healthy	
554	Birch/Paper	5	Dead		597	Box Elder	9	Healthy	X	628	Box Elder	15	Healthy		913	Cottonwood	31	Healthy		947	Ash/Green	8	Dead	X	982	Mulberry	13	Healthy	X
555	Ash/Green	5	Healthy		598	Elm/American	4	Healthy	X	629	Cherry/Sp	5	Healthy		914	Ash/Green	7	Healthy		948	Maple/Red	7	Healthy		983	Hackberry	5	Healthy	
556	Ash/Green	6	Healthy	X	599	Buckthorn	6	Healthy	X	630	Buckthorn	4	Healthy	X	915	Elm/American	12	Healthy		949	Buckthorn	4	Healthy	X	984	Elm/American	8	Healthy	
557	Buckthorn	5	Healthy	X	600	Buckthorn	4	Healthy	X	631	Box Elder	4	Healthy		916	Elm/American	12	Healthy		950	Buckthorn	4	Healthy	X	985	Elm/American	16	Healthy	
558	Buckthorn	5	Healthy	X	601	Buckthorn	6	Healthy	X	632	Basswood/American	6	Healthy		917	Ash/Green	7	Healthy	X	951	Maple/Red	4	Healthy		986	Mulberry	8	Healthy	X
574	Box Elder	9	Healthy		602	Buckthorn	4	Healthy	X	633	Basswood/American	16	Healthy		918	Ash/Green	5	Healthy	X	952	Buckthorn	4	Healthy	X	987	Mulberry	4	Healthy	X
575	Ash/Green	7	Healthy		603	Cottonwood	46	Healthy		634	Basswood/American	7	Healthy		919	Ash/Green	11	Dead	X	953	Honeysuckle/Tatarian	5	Healthy		988	Ash/Green	15	Healthy	
576	Maple/Silver	11	Healthy		604	Mulberry	4	Healthy	X	643	Ash/Green	4	Healthy		920	Box Elder	13	Dead	X	954	Hackberry	4	Healthy		989	Cherry/Sp	4	Healthy	
577	Ash/Green	6	Healthy		605	Buckthorn	5	Healthy	X	644	Mulberry	10	Healthy	X	921	Buckthorn	4	Healthy	X	955	Cottonwood	33	Healthy		990	Cottonwood	33	Healthy	
578	Ash/Green	4	Healthy		606	Buckthorn	6	Healthy	X	645	Box Elder	13	Healthy		922	Ash/Green	13	Healthy	X	956	Buckthorn	5	Healthy	X	991	Box Elder	16	Healthy	
579	Ash/Green	12	Healthy		607	Basswood/American	12	Healthy		646	Box Elder	13	Healthy		923	Ash/Green	10	Healthy	X	957	Mulberry	5	Healthy	X	992	Elm/American	5	Healthy	
580	Ash/Green	7	Healthy		608	Buckthorn	7	Healthy	X	647	Box Elder	10	Healthy		924	Ash/Green	13	Dead	X	961	Box Elder	12	Healthy		993	Mulberry	5	Healthy	X
581	Elm/Siberian	6	Healthy	X	609	Basswood/American	5	Healthy	X	648	Buckeye	5	Healthy		925	Elm/American	8	Healthy	X	962	Elm/American	11	Healthy		994	Mulberry	6	Healthy	X
582	Ash/Green	7	Healthy		610	Cottonwood	40	Healthy		649	Box Elder	15	Healthy		927	Ash/Green	10	Healthy		967	Ash/Green	10	Healthy		995	Ash/Green	4	Healthy	
583	Cottonwood	10	Healthy		611	Basswood/American	11	Healthy		650	Box Elder	16	Healthy		928	Elm/American	7	Healthy		968	Elm/American	17	Healthy		996	Maple/Red	11	Dead	
584	Cottonwood	10	Healthy		612	Basswood/American	6	Healthy		651	Box Elder	8	Healthy		929	Buckeye	4	Healthy		969	Buckeye	14	Healthy	X	997	Mulberry	14	Healthy	X

BARR
BARR ENGINEERING CO.
4300 MARKETPOINTE DRIVE
SUITE 200
MINNEAPOLIS, MN 55435

PH: 1-800-632-2277
WWW.BARR.COM
MINNESOTA ENGINEERING FIRM
NUMBER 10104111545

BASSETT CREEK WATERSHED MANAGEMENT COMMISSION
GOLDEN VALLEY, MINNESOTA

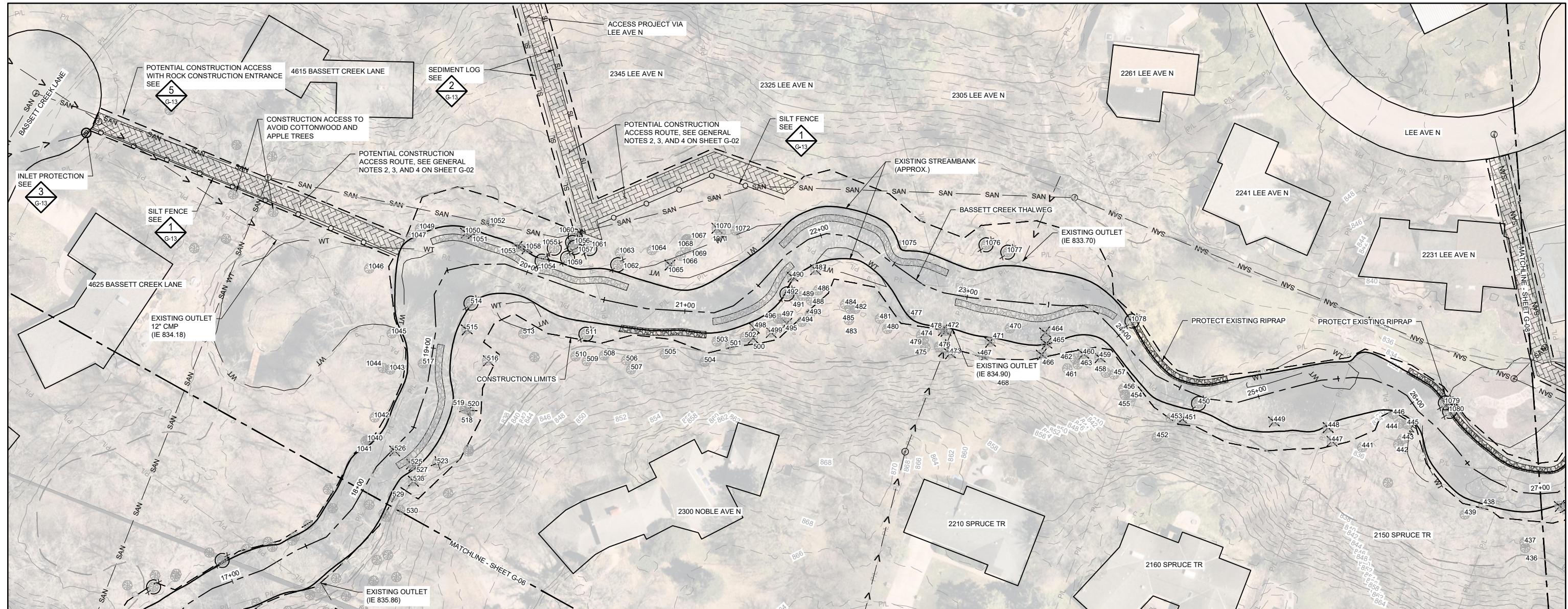
BASSETT CREEK MAIN STEM RESTORATION - PHASE 1
GOLDEN VALLEY, MINNESOTA
EXISTING CONDITIONS, REMOVALS, TREE PROTECTION
& EROSION CONTROL PLAN
(STA. 9+00 TO 18+00)

BARR PROJECT # 23272114.00
DWG # G-06
REV # B

PRINTED NAME: _____
SIGNATURE: _____
DATE: _____ LICENSE #: _____

B EPF ADB2 JCO 11/13/2025 ISSUED FOR REVIEW
A EPF JCO 06/20/2025 ISSUED FOR REVIEW
BY CHK APP DATE RELEASE/REVISION DESCRIPTION

90% DESIGN
ISSUED FOR REVIEW
NOT FOR CONSTRUCTION



1 PLAN: EXISTING CONDITIONS, TREE PROTECTION, & EROSION CONTROL (STA. 18+00 TO 27+00)

A scale bar and a north arrow are shown. The scale bar is a horizontal line with tick marks. The numbers 0, 30, and 60 are placed above the line. Below the line, the text 'SCALE IN FEET' is written. To the right of the scale bar is a north arrow, which is a circle with a stylized 'N' and an arrow pointing upwards.

TREE ID#	TREE SPECIES	DBH (INCHES)	TREE HEALTH	REMOVE	TREE ID#	TREE SPECIES	DBH (INCHES)	TREE HEALTH	REMOVE	TREE ID#	TREE SPECIES	DBH (INCHES)	TREE HEALTH	REMOVE	TREE ID#	TREE SPECIES	DBH (INCHES)	TREE HEALTH	REMOVE	TREE ID#	TREE SPECIES	DBH (INCHES)	TREE HEALTH	REMOVE	TREE ID#	TREE SPECIES	DBH (INCHES)	TREE HEALTH	REMOVE					
436	Box Elder	13	Healthy		457	Hackberry	11	Healthy		477	Basswood/American	10	Healthy		497	Box Elder	20	Healthy		518	Maple/Silver	32	Healthy		1051	Buckthorn	6	Healthy	X	1071	Box Elder	4	Healthy	
437	Box Elder	15	Healthy		458	Hackberry	13	Healthy		478	Hackberry	10	Healthy	X	498	Buckthorn	4	Healthy	X	519	Box Elder	6	Healthy		1052	Box Elder	20	Healthy		1072	Mulberry	12	Healthy	
438	Elm/American	15	Healthy		459	Box Elder	8	Dead	X	479	Basswood/American	4	Healthy		499	Buckthorn	4	Healthy	X	520	Ash/Green	4	Healthy		1053	Box Elder	10	Healthy	X	1075	Ash/Green	14	Healthy	
439	Ash/Green	10	Healthy		460	Box Elder	5	Dead	X	480	Walnut/Black	8	Healthy		500	Buckthorn	4	Healthy	X	523	Box Elder	6	Healthy		1054	Cottonwood	31	Healthy		1076	Maple/Silver	33	Healthy	
441	Box Elder	15	Healthy		461	Cherry/Sp	5	Healthy		481	Box Elder	19	Dead		501	Box Elder	7	Healthy		525	Buckthorn	4	Healthy	X	1055	Cottonwood	31	Healthy		1077	Maple/Silver	33	Healthy	
442	Box Elder	11	Healthy		462	Box Elder	20	Healthy		482	Box Elder	18	Dying		502	Basswood/American	23	Dead		526	Buckthorn	5	Healthy	X	1056	Cottonwood	36	Healthy		1078	Willow/Black	32	Healthy	
443	Box Elder	13	Healthy		463	Cherry/Black	5	Healthy		483	Cherry/Sp	6	Healthy		503	Box Elder	4	Healthy		527	Buckthorn	4	Healthy	X	1057	Elm/American	31	Healthy		1079	Birch/River	10	Healthy	
444	Box Elder	14	Healthy		464	Cherry/Black	8	Healthy	X	484	Cherry/Sp	10	Healthy		504	Basswood/American	18	Healthy		528	Buckthorn	4	Healthy	X	1058	Box Elder	10	Healthy	X	1080	Ash/Green	18	Healthy	
445	Elm/Siberian	5	Healthy	X	465	Cherry/Sp	7	Healthy	X	485	Box Elder	9	Healthy		505	Basswood/American	21	Healthy		529	Ironwood	7	Healthy		1059	Box Elder	12	Healthy		1060	Box Elder	9	Healthy	
446	Box Elder	12	Healthy		466	Box Elder	7	Healthy	X	486	Canada Plum	4	Healthy		506	Ash/White	10	Healthy		530	Box Elder	9	Healthy		1061	Box Elder	13	Healthy		1062	Box Elder	12	Healthy	
447	Buckthorn	6	Healthy	X	467	Box Elder	13	Dead	X	487	Buckthorn	7	Healthy	X	507	Ash/Green	15	Healthy		1040	Ash/Green	5	Healthy		1063	Ash/Green	4	Healthy		1064	Box Elder	5	Healthy	
448	Buckthorn	5	Healthy	X	468	Cherry/Sp	8	Healthy		488	Cherry/Sp	7	Healthy		508	Box Elder	13	Healthy		1041	Ash/Green	8	Healthy		1065	Box Elder	7	Healthy		1066	Buckthorn	9	Healthy	X
449	Mulberry	7	Healthy	X	469	Box Elder	14	Healthy		489	Cherry/Sp	6	Healthy		509	Basswood/American	14	Healthy		1042	Maple/Silver	16	Healthy		1067	Cottonwood	32	Healthy		1068	Ash/Green	10	Healthy	
450	Elm/American	13	Healthy		470	Basswood/American	6	Healthy		490	Box Elder	11	Healthy	X	510	Basswood/American	10	Healthy		1043	Hackberry	11	Healthy		1069	Elm/American	10	Healthy		1070	Buckthorn	6	Healthy	X
451	Buckthorn	4	Healthy	X	471	Basswood/American	15	Healthy	X	491	Maple/Silver	15	Healthy		511	Oak/Bur	22	Healthy		1044	Ash/Green	11	Healthy		1071	Box Elder	4	Healthy		1072	Mulberry	12	Healthy	
452	Basswood/American	12	Healthy		472	Ash/Green	11	Dead	X	492	Maple/Silver	10	Healthy		513	Elm/American	8	Healthy		1045	Maple/Silver	27	Healthy		1073	Cherry/Sp	9	Healthy		1074	Cherry/Sp	10	Healthy	
453	Box Elder	13	Healthy		473	Ash/Green	15	Dead	X	493	Cherry/Sp	9	Healthy		514	Hackberry	9	Healthy		1046	Ash/Green	18	Healthy		1075	Ash/Green	14	Healthy		1076	Maple/Silver	33	Healthy	
454	Hackberry	10	Healthy		474	Cherry/Sp	5	Healthy		494	Cherry/Sp	10	Healthy		515	Ash/Green	10	Dead	X	1047	Ash/Green	4	Healthy		1077	Maple/Silver	33	Healthy		1078	Willow/Black	32	Healthy	
455	Hackberry	7	Healthy		475	Basswood/American	18	Healthy		495	Buckthorn	5	Healthy	X	516	Buckthorn	5	Healthy	X	1049	Ash/Green	9	Healthy		1079	Birch/River	10	Healthy		1080	Ash/Green	18	Healthy	
456	Hackberry	4	Healthy		476	Basswood/American	8	Healthy		496	Hackberry	4	Healthy		517	Box Elder	11	Healthy		1050	Box Elder	5	Healthy	X	1081	Buckthorn	6	Healthy	X	90% DESIGN ISSUED FOR REVIEW NOT FOR CONSTRUCTION				

ORIGINAL DRAWING SIZE: ANSI FULL BLEED (11.00 X 17.00 INCHES) PLOT SCALE: 1:2 PLOT DATE: 11/13/2025 11:18 AM
CADD USER: ERIC P. FITZGERALD FILE: M:\DES\GN1\32327114.00\232327114_G-05.DWG

I HEREBY CERTIFY THAT THIS PLAN, SPECIFICATION, OR REPORT 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.

PRINTED NAME _____
SIGNATURE _____

DATE _____ LICENSE # _____

	-	-	-	-	-	-
	-	-	-	-	-	-
	-	-	-	-	-	-
	-	-	-	-	-	-
	-	-	-	-	-	-

	EPF	ADB2	JCO	11/13/2025	ISSUED FOR R
#	EPF	JCO	JCO	06/20/2025	ISSUED FOR R

BY CHK APP DATE RELEASE/REVISION DESCRIPTION

BARR

BARR ENGINEERING CO. PH: 1-800-632-2277
4300 MARKETPOINTE DRIVE WWW.BARR.COM
SUITE 200 MINNESOTA ENGINEERING
MINNEAPOLIS, MN 55435 NUMBER 10104111545

BASSETT CREEK WATERSHED MANAGEMENT COMMISSION
GOLDEN VALLEY, MINNESOTA

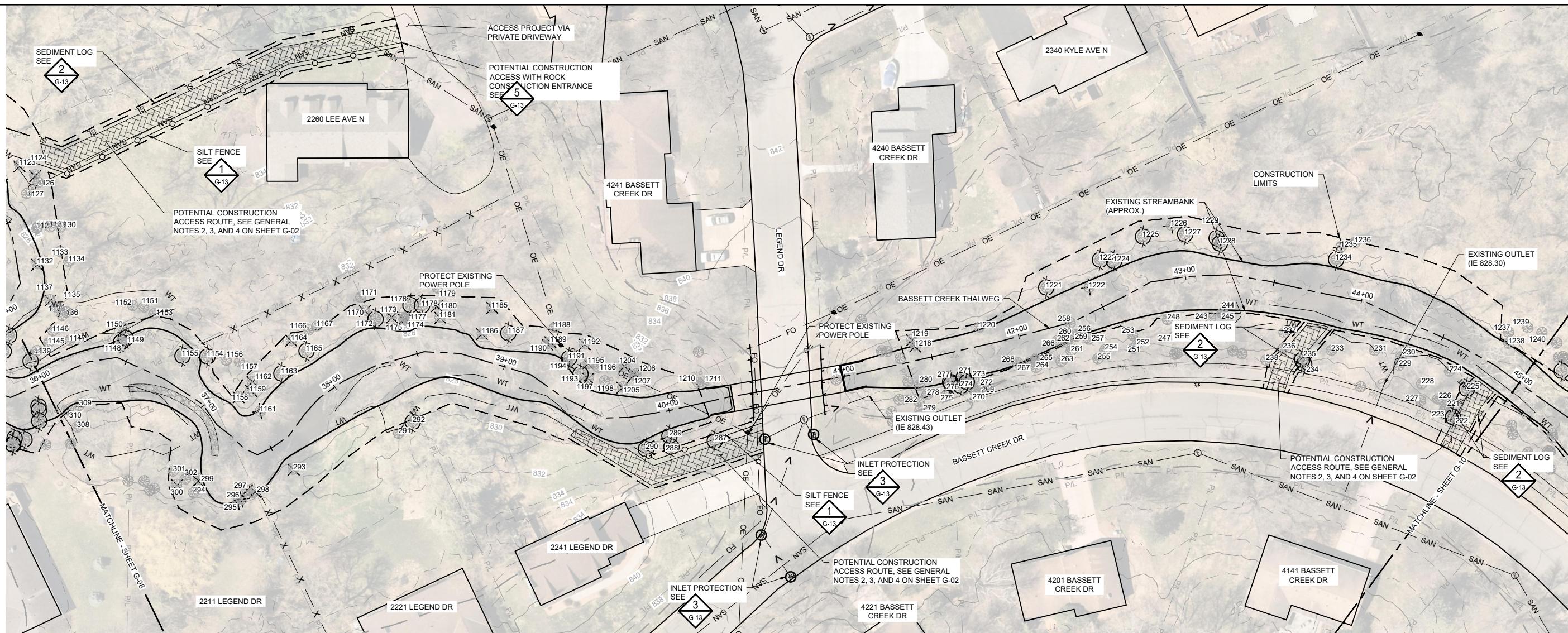
11 of 11 | Page

BASSETT CREEK MAIN STEM RESTORATION - PHASE 1 GOLDEN VALLEY, MINNESOTA

EXISTING CONDITIONS, REMOVALS, TREE PROTECTION
& EROSION CONTROL PLAN
(STA. 18+00 TO 27+00)

BARR PROJECT #
23272114.00
DWG #
G-07
REV #
B

TREE ID#	TREE SPECIES	DBH (INCHES)	TREE HEALTH	REMOVE
307	Maple/Silver	16	Healthy	
311	Basswood/American	9	Healthy	
312	Basswood/American	8	Healthy	
313	Basswood/American	6	Healthy	
314	Basswood/American	4	Healthy	
315	Birch/River	8	Healthy	
316	Birch/River	6	Healthy	
317	Birch/River	5	Healthy	
318	Birch/River	4	Healthy	
319	Box Elder	7	Healthy	X
320	Box Elder	8	Healthy	X
321	Ash/Green	11	Healthy	
322	Ash/Green	7	Healthy	X
323	Buckeye	10	Healthy	
324	Box Elder	10	Healthy	X
325	Apple	12	Healthy	
326	Apple	13	Healthy	
327	Box Elder	7	Healthy	
328	Box Elder	7	Healthy	
329	Box Elder	7	Healthy	
330	Box Elder	4	Healthy	
331	Apple	4	Healthy	
332	Elm/American	23	Healthy	
333	Box Elder	8	Healthy	
335	Box Elder	4	Healthy	
336	Elm/Siberian	4	Healthy	X
337	Elm/Siberian	4	Healthy	X
338	Box Elder	7	Healthy	
339	Box Elder	4	Healthy	
340	Box Elder	6	Healthy	
341	Apple	6	Healthy	
342	Cottonwood	18	Healthy	
344	Cottonwood	24	Healthy	
345	Cottonwood	22	Healthy	
346	Cottonwood	25	Healthy	
347	Box Elder	5	Healthy	
348	Cottonwood	23	Healthy	
349	Elm/Siberian	8	Healthy	X
350	Box Elder	5	Healthy	
351	Box Elder	4	Healthy	
352	Maple/Silver	6	Healthy	
353	Maple/Silver	8	Healthy	
354	Cottonwood	23	Healthy	
355	Box Elder	8	Healthy	
356	Box Elder	8	Healthy	
357	Box Elder	5	Healthy	
358	Box Elder	6	Healthy	
359	Buckthorn	4	Healthy	X
360	Walnut/Black	5	Healthy	
361	Cottonwood	23	Healthy	
362	Cottonwood	23	Healthy	
363	Birch/Paper	12	Healthy	
364	Cottonwood	30	Healthy	
365	Cottonwood	22	Healthy	
366	Elm/American	8	Healthy	
367	Box Elder	12	Healthy	X
368	Box Elder	5	Healthy	X
369	Ash/Green	10	Healthy	
370	Apple	7	Healthy	
371	Ash/Green	10	Healthy	X
372	Walnut/Black	11	Healthy	
373	Box Elder	10	Healthy	X
374	Apple	6	Healthy	
375	Maple/Silver	6	Healthy	X
376	Maple/Silver	7	Healthy	X
377	Maple/Silver	15	Healthy	
378	Maple/Silver	10	Healthy	
379	Maple/Silver	10	Healthy	
380	Box Elder	9	Healthy	X
381	Box Elder	5	Healthy	X
382	Box Elder	10	Healthy	X
383	Box Elder	8	Healthy	X
384	Box Elder	6	Healthy	X
385	Box Elder	8	Healthy	X
386	Box Elder	18	Healthy	
387	Spruce/Black	11	Healthy	
388	Spruce/Black	15	Healthy	
389	Apple	18	Healthy	
390	Basswood/American	18	Healthy	
391	Willow/Black	29	Healthy	
392	Box Elder	4	Healthy	
393	Box Elder	8	Healthy	
394	Box Elder	9	Healthy	
396	Birch/River	8	Healthy	
397	Birch/River	9	Healthy	
400	Elm/Siberian	11	Healthy	X
401	Birch/River	6	Healthy	
402	Birch/River	9	Healthy	
403	Cottonwood	23	Healthy	
404	Box Elder	5	Healthy	
405	Ash/Green	15	Healthy	
406	Box Elder	7	Healthy	
407	Box Elder	10	Healthy	
408	Buckeye	7	Healthy	
409	Box Elder	10	Healthy	
410	Maple/Red	8	Healthy	
411	Hackberry	11	Healthy	
412	Box Elder	5	Healthy	
413	Walnut/Black	13	Healthy	X
414	Box Elder	11	Healthy	X
416	Ash/Green	15	Dead	X
417	Box Elder	7	Dead	X
418	Buckthorn	5	Healthy	X
419	Box Elder	11	Dead	X
420	Box Elder	9	Healthy	X
421	Box Elder	15	Healthy	
422	Cottonwood	23	Healthy	
423	Box Elder	12	Healthy	
424	Buckthorn	5	Healthy	X
425	Box Elder	6	Healthy	
426	Box Elder	11	Healthy	
427	Cottonwood	22	Healthy	X
428	Cottonwood	22	Healthy	
429	Box Elder	12	Healthy	X
430	Box Elder	15	Healthy	X
431	Box Elder	15	Healthy	
432	Box Elder	14	Healthy	
433	Buckthorn	8	Healthy	X
434	Box Elder	15	Healthy	X
435	Elm/American	16	Healthy	
436	Elm/American	10	Healthy	
437	Ash/Green	15	Healthy	
438	Box Elder	5	Healthy	
439	Box Elder	5	Healthy	
440	Box Elder	4	Healthy	
441	Box Elder	8	Healthy	
442	Box Elder	7	Healthy	
443	Box Elder	13	Healthy	X
444	Box Elder	7	Healthy	
445	Box Elder	11	Healthy	
446	Box Elder	8	Healthy	
447	Box Elder	10	Healthy	
448	Box Elder	10	Healthy	
449	Box Elder	10	Healthy	
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516	Box Elder	10	Healthy	
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519	Box Elder	10	Healthy	
520	Box Elder	10	Healthy	
521	Box Elder			

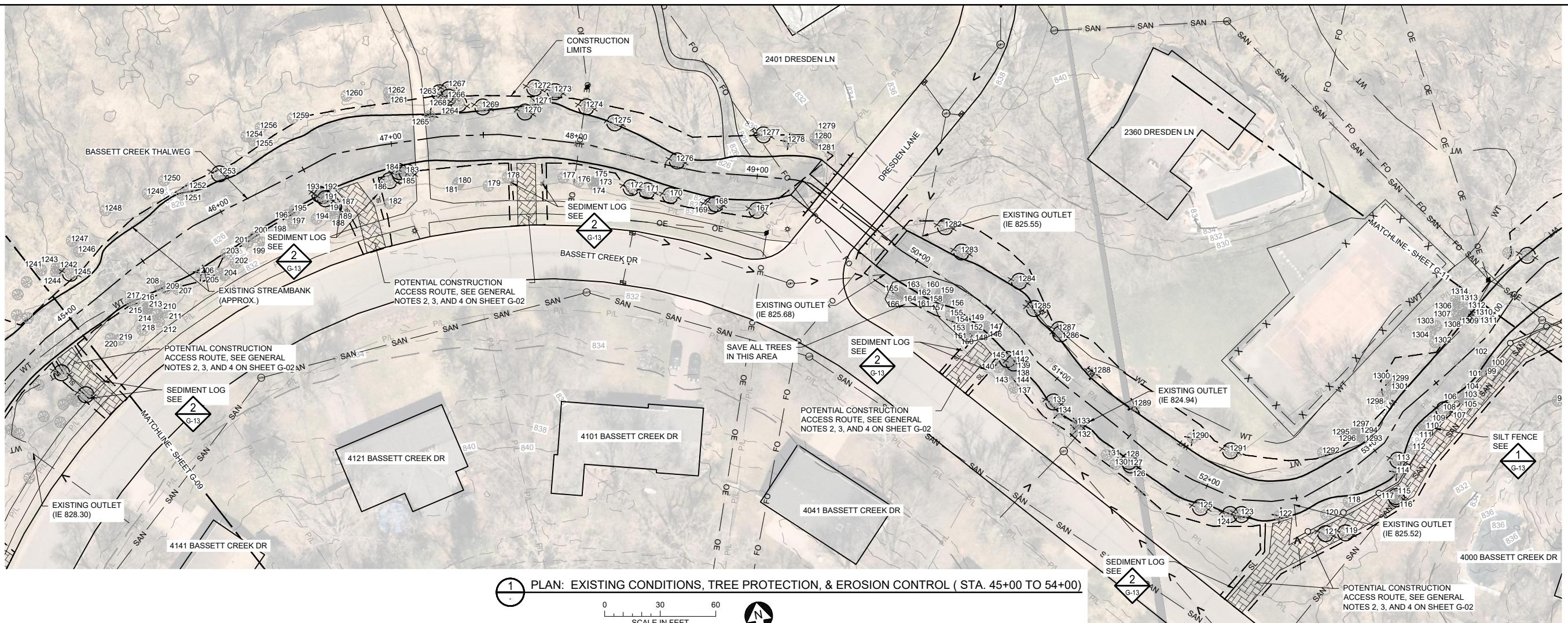


1 PLAN: EXISTING CONDITIONS, TREE PROTECTION, & EROSION CONTROL (STA. 36+00 TO 45+00)

0 30 60
SCALE IN FEET



TREE ID#	TREE SPECIES	DBH (INCHES)	TREE HEALTH	REMOVE
221	Box Elder	21	Healthy	
222	Hackberry	4	Healthy	
223	Ash/Green	4	Healthy	
224	Elm/Siberian	5	Healthy	X
225	Box Elder	13	Healthy	
226	Box Elder	16	Healthy	
227	Box Elder	8	Healthy	
228	Box Elder	15	Healthy	
229	Maple/Silver	13	Healthy	
230	Maple/Silver	28	Healthy	
231	Box Elder	13	Healthy	
232	Box Elder	11	Healthy	
233	Walnut/Black	6	Healthy	
234	Box Elder	23	Healthy	
235	Ash/Green	4	Healthy	
236	Maple/Silver	5	Healthy	
237	Box Elder	12	Healthy	
238	Box Elder	13	Healthy	
239	Ash/Green	5	Healthy	
240	Elm/American	8	Healthy	
241	Box Elder	14	Healthy	
242	Walnut/Black	4	Healthy	
243	Elm/American	14	Healthy	
244	Elm/Siberian	14	Healthy	X
245	Maple/Silver	5	Healthy	
246	Box Elder	6	Healthy	
247	Box Elder	15	Healthy	
248	Box Elder	15	Healthy	
249	Cottonwood	23	Healthy	
250	Maple/Silver	4	Healthy	
251	Elm/American	9	Healthy	
252	Elm/American	17	Healthy	
253	Box Elder	10	Healthy	
254	Box Elder	13	Healthy	
255	Elm/American	9	Healthy	
256	Ash/Green	11	Dead	
257	Basswood/American	15	Healthy	
258	Basswood/American	5	Healthy	
259	Box Elder	10	Healthy	
260	Apple	4	Healthy	
261	Elm/American	5	Healthy	
262	Cherry/Sp	6	Healthy	
263	Box Elder	14	Healthy	
264	Apple	5	Healthy	
265	Apple	10	Healthy	
266	Apple	5	Healthy	
267	Box Elder	18	Healthy	
268	Box Elder	12	Healthy	
269	Box Elder	13	Healthy	
270	Box Elder	8	Healthy	
271	Elm/Siberian	14	Healthy	X
272	Elm/Siberian	5	Healthy	X
273	Box Elder	7	Healthy	
274	Box Elder	11	Healthy	
275	Elm/American	15	Healthy	
276	Elm/American	13	Healthy	
277	Elm/American	8	Healthy	
278	Elm/American	4	Healthy	
279	Maple/Red	5	Healthy	
280	Maple/Silver	5	Healthy	
282	Maple/Silver	4	Healthy	
287	Elm/Siberian	4	Healthy	X
288	Elm/Siberian	5	Healthy	X
289	Elm/Siberian	4	Healthy	X
290	Maple/Silver	4	Healthy	
291	Box Elder	14	Healthy	
292	Box Elder	12	Healthy	
293	Buckthorn	5	Healthy	X
294	Box Elder	5	Healthy	X
295	Box Elder	15	Healthy	X
296	Box Elder	18	Healthy	X
297	Box Elder	13	Dead	X
298	Buckthorn	6	Healthy	X
299	Buckthorn	4	Healthy	X
300	Buckthorn	4	Healthy	X
301	Elm/American	20	Healthy	
302	Elm/American	6	Healthy	X
308	Maple/Silver	11	Healthy	
309	Box Elder	12	Healthy	
310	Box Elder	13	Healthy	
312	Buckthorn	5	Healthy	X
314	Buckthorn	4	Healthy	X
315	Box Elder	15	Healthy	
316	Buckthorn	7	Healthy	X
317	Box Elder	18	Dead	
318	Elm/American	22	Healthy	
319	Elm/American	10	Healthy	
320	Box Elder	15	Healthy	
321	Buckthorn	4	Healthy	X
322	Box Elder	20	Healthy	X
323	Box Elder	20	Healthy	
324	Box Elder	20	Healthy	
325	Box Elder	20	Healthy	
326	Box Elder	20	Healthy	
327	Box Elder	20	Healthy	
328	Box Elder	20	Healthy	
329	Box Elder	20	Healthy	
330	Box Elder	20	Healthy	
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416	Box Elder	20	Healthy	
417	Box Elder	20	Healthy	
418	Box Elder	20	Healthy	
419	Box Elder	20	Healthy	
420	Box Elder	20	Healthy	
421	Box Elder	20	Healthy	
422	Box Elder	20	Healthy	
423	Box Elder	20	Healthy	
424	Box Elder	20	Healthy	
425	Box Elder	20	Healthy	
426	Box Elder	20	Healthy	
427	Box Elder	20	Healthy	
428	Box Elder	20	Healthy	



Tree ID#	Tree Species	DBH (Inches)	Tree Health	Remove
98	Basswood/American	23	Healthy	
99	Maple/Silver	16	Healthy	
100	Maple/Silver	6	Healthy	
101	Maple/Silver	6	Healthy	
102	Maple/Silver	9	Healthy	
103	Maple/Silver	7	Healthy	
104	Maple/Silver	10	Healthy	
105	Box Elder	5	Healthy	
106	Maple/Silver	8	Healthy	
107	Maple/Silver	5	Healthy	
108	Maple/Silver	12	Healthy	
109	Box Elder	14	Healthy	
110	Box Elder	8	Healthy	
111	Maple/Silver	10	Healthy	
112	Box Elder	4	Healthy	
113	Maple/Silver	13	Healthy	
114	Maple/Silver	7	Healthy	X
115	Box Elder	9	Healthy	
116	Maple/Sugar	17	Healthy	
117	Maple/Silver	12	Healthy	
118	Maple/Silver	16	Healthy	
119	Box Elder	12	Healthy	
120	Maple/Silver	23	Healthy	
121	Box Elder	11	Healthy	
122	Box Elder	6	Healthy	X
123	Walnut/Black	6	Healthy	
124	Box Elder	13	Healthy	
125	Walnut/Black	9	Healthy	
126	Box Elder	15	Healthy	
127	Box Elder	12	Healthy	
128	Box Elder	12	Healthy	
129	Box Elder	7	Healthy	
130	Box Elder	7	Healthy	X
131	Box Elder	6	Healthy	X
132	Buckthorn	8	Healthy	X
133	Buckthorn	8	Healthy	X
134	Buckthorn	6	Healthy	X
135	Walnut/Black	6	Healthy	
136	Buckeye	5	Healthy	
137	Buckeye	5	Healthy	
138	Ash/Green	6	Healthy	
139	Ash/Green	6	Healthy	
140	Ash/Green	6	Healthy	
141	Maple/Silver	11	Healthy	
142	Maple/Silver	12	Healthy	
143	Maple/Silver	5	Healthy	
144	Maple/Silver	5	Healthy	
145	Maple/Silver	12	Healthy	
146	Maple/Silver	4	Healthy	
147	Maple/Silver	15	Healthy	
148	Maple/Silver	13	Healthy	
149	Maple/Silver	8	Healthy	
150	Ash/Green	7	Healthy	
151	Maple/Silver	6	Healthy	
152	Maple/Silver	13	Healthy	
153	Maple/Silver	10	Healthy	
154	Elm/American	13	Healthy	
155	Maple/Silver	8	Healthy	
156	Maple/Silver	9	Dead	
157	Maple/Silver	7	Healthy	
158	Maple/Silver	11	Healthy	
159	Maple/Silver	7	Healthy	
160	Maple/Silver	5	Healthy	
161	Maple/Silver	15	Healthy	
162	Maple/Silver	9	Healthy	
163	Box Elder	14	Healthy	
164	Ash/Green	10	Healthy	
165	Ash/Green	8	Healthy	
166	Ash/Green	10	Healthy	
167	Hackberry	4	Healthy	
168	Box Elder	16	Healthy	
169	Elm/American	15	Healthy	
170	Box Elder	16	Healthy	
171	Box Elder	15	Healthy	
172	Box Elder	13	Healthy	
173	Elm/Siberian	12	Healthy	X
174	Hackberry	9	Healthy	
175	Hackberry	9	Dying	
176	Hackberry	5	Healthy	
177	Box Elder	12	Healthy	
178	Walnut/Black	4	Healthy	
179	Elm/American	14	Healthy	
180	Box Elder	6	Healthy	
181	Box Elder	5	Healthy	
182	Box Elder	5	Healthy	
183	Maple/Silver	11	Healthy	
184	Maple/Silver	13	Healthy	
185	Maple/Silver	7	Healthy	
186	Maple/Silver	4	Healthy	
187	Box Elder	4	Healthy	
188	Box Elder	4	Healthy	
189	Box Elder	7	Healthy	
190	Box Elder	4	Healthy	
191	Maple/Silver	6	Healthy	
192	Maple/Silver	6	Healthy	
193	Maple/Silver	22	Healthy	
194	Box Elder	11	Healthy	
195	Ash/Green	6	Dead	
196	Canada Plum	6	Healthy	
197	Elm/American	10	Healthy	
198	Ash/Green	4	Healthy	
199	Buckeye	14	Healthy	
200	Box Elder	14	Healthy	
201	Basswood/American	6	Healthy	
202	Box Elder	13	Dead	
203	Box Elder	16	Healthy	
204	Box Elder	12	Healthy	
205	Box Elder	11	Healthy	
206	Elm/American	5	Healthy	X
207	Elm/American	12	Healthy	
208	Maple/Silver	20	Healthy	
209	Box Elder	5	Healthy	
210	Cottonwood	22	Healthy	
211	Box Elder	10	Healthy	
212	Cottonwood	25	Healthy	
213	Box Elder	12	Healthy	
214	Cottonwood	22	Healthy	
215	Cottonwood	9	Healthy	
216	Maple/Silver	10	Healthy	
217	Maple/Silver	11	Healthy	
218	Cottonwood	22	Healthy	
219	Cottonwood	24	Healthy	
220	Box Elder	5	Healthy	
221	Box Elder	4	Healthy	
222	Box Elder	6	Healthy	
223	Box Elder	22	Healthy	
224	Box Elder	24	Healthy	
225	Box Elder	13	Healthy	
226	Box Elder	7	Healthy	
227	Box Elder	10	Healthy	
228	Box Elder	13	Healthy	
229	Box Elder	12	Healthy	
230	Box Elder	13	Healthy	
231	Box Elder	9	Healthy	
232	Box Elder	18	Healthy	
233	Box Elder	14	Healthy	
234	Box Elder	12	Healthy	
235	Box Elder	10	Healthy	
236	Box Elder	17	Dead	
237	Box Elder	12	Healthy	
238	Hackberry	4	Healthy	
239	Box Elder	9	Healthy	
240	Maple/Red	4	Healthy	
241	Honeylocust	9	Healthy	
242	Apple	11	Healthy	
243	Spruce Sp.	8	Healthy	
244	Ash/Green	25	Healthy	
245	Box Elder	5	Healthy	
246	Box Elder	6	Healthy	
247	Box Elder	22	Healthy	
248	Maple/Silver	15	Healthy	X
249	Hackberry	5	Healthy	
250	Maple/Silver	6	Healthy	
251	Maple/Silver	13	Healthy	
252	Box Elder	9	Healthy	
253	Box Elder	18	Healthy	
254	Box Elder	14	Healthy	
255	Box Elder	12	Healthy	
256	Box Elder	10	Healthy	
257	Box Elder	17	Dead	
258	Box Elder	12	Healthy	
259	Box Elder	12	Healthy	
260	Box Elder	22	Healthy	
261	Box Elder	15	Healthy	
262	Box Elder	15	Healthy	
263	Box Elder	5	Healthy	
264	Box Elder	6	Healthy	
265	Box Elder	22	Healthy	
266	Maple/Silver	15	Healthy	
267	Box Elder	17	Dead	
268	Box Elder	6	Healthy	
269	Maple/Silver	15	Healthy	
270	Mulberry	17	Healthy	X

90% DESIGN
ISSUED FOR REVIEW
NOT FOR CONSTRUCTION

ORIGINAL DRAWING SIZE: ANSI FULL BLEED (11.00 X 17.00 INCHES) PLOT SCALE: 1:2 PLOT DATE: 11/13/2025 11:19 AM
CADD USER: ERIC P. FITZGERALD FILE: M:\DES\GN1\23272114.00\23272114_G-05.DWG

I HEREBY CERTIFY THAT THIS PLAN, SPECIFICATION, OR REPORT 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.

PRINTED NAME _____
SIGNATURE _____

DATE _____ LICENSE # _____

	-	-	-	-	-	-
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	EPF	ADB2	JCO	11/13/2025	ISSUED FOR R
#	EPF	JCO	JCO	06/20/2025	ISSUED FOR R

BY CHK APP DATE RELEASE/REVISION DESCRIPTION

BARR

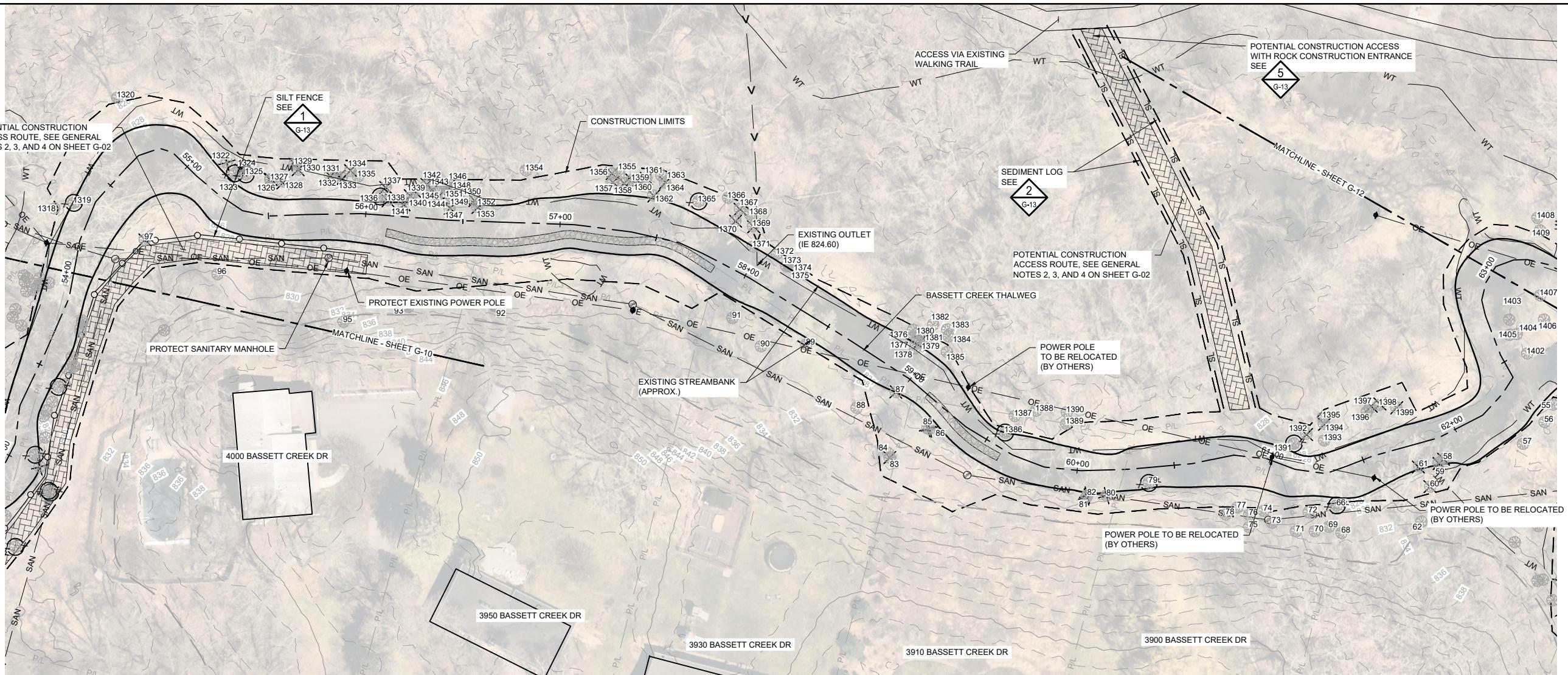
BARR ENGINEERING CO. PH: 1-800-632-2277
4300 MARKETPOINTE DRIVE WWW.BARR.COM
SUITE 200 MINNESOTA ENGINEERING
MINNEAPOLIS, MN 55435 NUMBER 10104111545

BASSETT CREEK WATERSHED MANAGEMENT COMMISSION
GOLDEN VALLEY, MINNESOTA

BASSETT CREEK MAIN STEM RESTORATION - PHASE I GOLDEN VALLEY, MINNESOTA

**EXISTING CONDITIONS, REMOVALS, TREE PROTECTION
& EROSION CONTROL PLAN
(STA. 45+00 TO 54+00)**

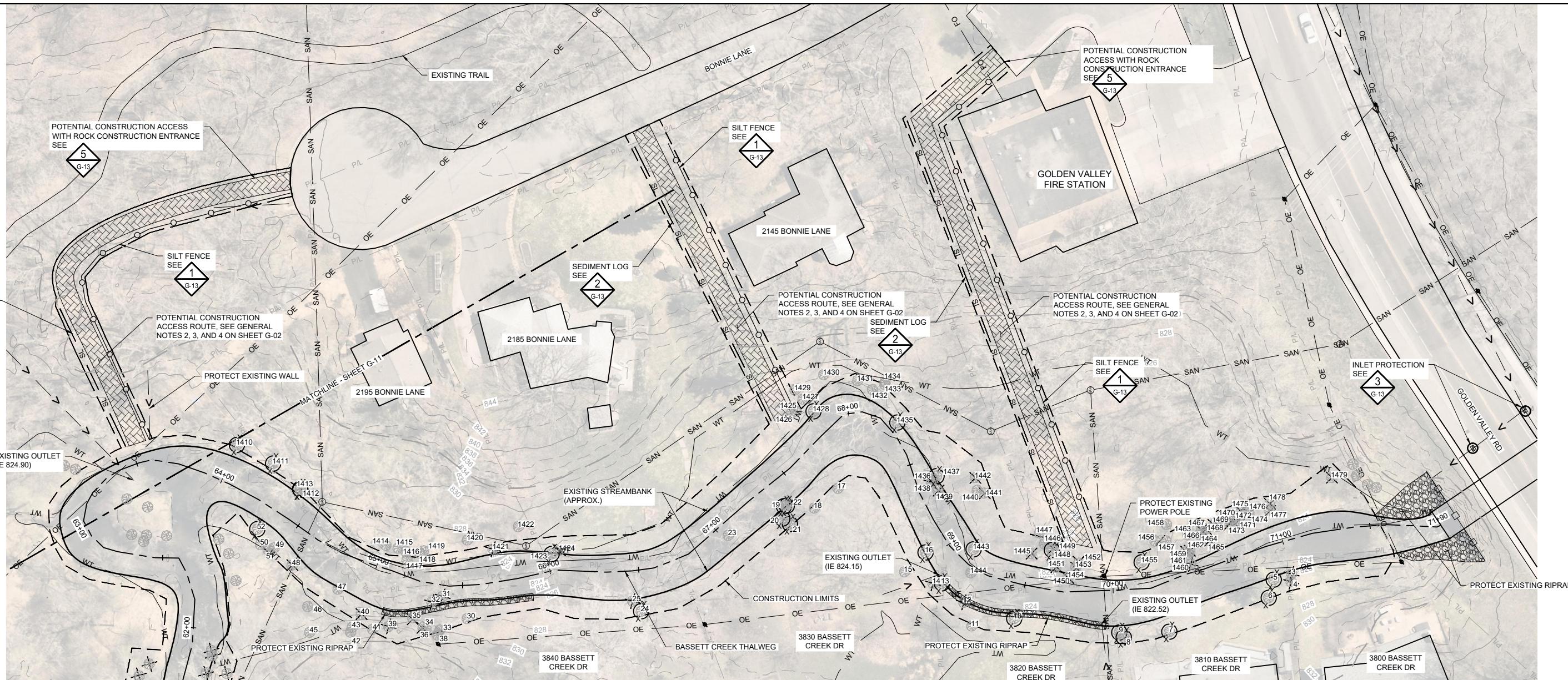
	BARR PROJECT #
	23272114.00
	DWG #
	G-10
	REV #
	B



1 PLAN: EXISTING CONDITIONS, TREE PROTECTION, & EROSION CONTROL (STA. 54+00 TO 63+00)

0 30 60
SCALE IN FEET

TREE ID#	TREE SPECIES	DBH (INCHES)	TREE HEALTH	REMOVE	TREE ID#	TREE SPECIES	DBH (INCHES)	TREE HEALTH	REMOVE	TREE ID#	TREE SPECIES	DBH (INCHES)	TREE HEALTH	REMOVE	TREE ID#	TREE SPECIES	DBH (INCHES)	TREE HEALTH	REMOVE	TREE ID#	TREE SPECIES	DBH (INCHES)	TREE HEALTH	REMOVE
55	Box Elder	12	Healthy		83	Willow/Black	26	Healthy	X	1328	Buckthorn	13	Healthy	X	1352	Buckthorn	4	Healthy	X	1376	Box Elder	12	Healthy	
56	Ash/Green	23	Healthy		84	Spruce/Black	11	Healthy	X	1329	Buckthorn	8	Healthy	X	1353	Buckthorn	4	Healthy	X	1377	Box Elder	8	Healthy	
57	Box Elder	8	Healthy		85	Box Elder	10	Healthy	X	1330	Box Elder	9	Healthy	X	1354	Maple/Silver	36	Healthy		1378	Box Elder	13	Healthy	
58	Buckthorn	5	Healthy	X	86	Box Elder	9	Healthy	X	1331	Buckthorn	6	Healthy	X	1355	Ash/Green	19	Healthy		1379	Buckthorn	7	Healthy	X
59	Buckthorn	7	Healthy	X	87	Spruce/Black	6	Dead	X	1332	Buckthorn	9	Healthy	X	1356	Buckthorn	5	Healthy	X	1380	Buckthorn	6	Healthy	X
60	Buckthorn	4	Healthy	X	88	Oak/White	25	Healthy		1333	Buckthorn	5	Healthy	X	1357	Buckthorn	5	Healthy	X	1381	Buckthorn	4	Healthy	X
61	Buckthorn	6	Healthy	X	89	Spruce Sp.	11	Healthy		1334	Buckthorn	9	Healthy	X	1358	Buckthorn	4	Healthy	X	1382	Buckthorn	4	Dead	X
62	Basswood/American	13	Healthy		90	Spruce Sp.	12	Healthy		1335	Box Elder	12	Healthy		1359	Buckthorn	4	Healthy	X	1383	Ash/Green	5	Healthy	
66	Cottonwood	26	Healthy		91	Spruce/Black	14	Healthy		1336	Box Elder	11	Healthy		1360	Buckthorn	4	Healthy	X	1384	Ash/Green	4	Healthy	
68	Ash/Green	11	Dying		92	Ash/Green	14	Healthy		1337	Buckthorn	6	Healthy	X	1361	Buckthorn	4	Healthy	X	1385	Buckthorn	4	Dead	X
69	Box Elder	5	Healthy		93	Ash/Green	14	Healthy		1338	Buckthorn	5	Healthy	X	1362	Buckthorn	6	Healthy	X	1386	Box Elder	15	Healthy	
70	Ash/Green	4	Healthy		94	Ash/Green	12	Healthy		1339	Buckthorn	5	Healthy	X	1363	Ash/Green	12	Healthy		1387	Cottonwood	23	Healthy	
71	Ash/Green	8	Healthy		95	Oak/Bur	30	Healthy		1340	Buckthorn	5	Healthy	X	1364	Buckthorn	5	Healthy	X	1388	Cottonwood	39	Healthy	
72	Box Elder	16	Healthy		96	Basswood/American	30	Healthy		1341	Buckthorn	5	Healthy	X	1365	Maple/Silver	35	Healthy		1389	Ash/Green	4	Healthy	
73	Ash/Green	4	Healthy		97	Ash/Green	12	Dead		1342	Buckthorn	5	Healthy	X	1366	Ash/Green	22	Healthy		1390	Cottonwood	20	Healthy	
74	Ash/Green	4	Healthy		1318	Box Elder	28	Healthy		1343	Buckthorn	5	Healthy	X	1367	Buckthorn	5	Healthy	X	1391	Cottonwood	38	Healthy	
75	Ash/Green	5	Healthy		1319	Box Elder	18	Healthy		1344	Buckthorn	5	Healthy	X	1368	Ash/Green	5	Healthy		1392	Buckthorn	5	Healthy	X
76	Apple	8	Healthy		1320	Willow/Black	24	Healthy		1345	Ash/Green	10	Healthy		1369	Buckthorn	5	Healthy	X	1393	Elm/American	5	Healthy	
77	Ash/Green	6	Healthy		1322	Ash/Green	12	Dead	X	1346	Ash/Green	16	Healthy		1370	Buckthorn	4	Healthy	X	1394	Buckthorn	8	Healthy	X
78	Box Elder	5	Healthy		1323	Box Elder	15	Healthy		1347	Buckthorn	4	Healthy	X	1371	Ash/Green	6	Healthy		1395	Cottonwood	23	Healthy	
79	Elm/Siberian	13	Healthy	X	1324	Buckthorn	4	Healthy	X	1348	Buckthorn	4	Healthy	X	1372	Ash/Green	12	Healthy		1396	Box Elder	12	Healthy	
80	Box Elder	8	Healthy	X	1325	Cottonwood	14	Healthy		1349	Buckthorn	9	Healthy	X	1373	Ash/Green	10	Healthy		1397	Buckthorn	6	Healthy	X
81	Box Elder	13	Healthy	X	1326	Buckthorn	6	Healthy	X	1350	Box Elder	12	Dead	X	1374	Ash/Green	16	Healthy		1398	Buckthorn	6	Healthy	X
82	Box Elder	8	Healthy	X	1327	Box Elder	16	Healthy	X	1351	Buckthorn	4	Healthy	X	1375	Ash/Green	13	Healthy		1399	Buckthorn	5	Healthy	X



1 PLAN: EXISTING CONDITIONS, TREE PROTECTION, & EROSION CONTROL (STA. 63+00 TO 72+00)

0 30 60
SCALE IN FEET



3	Box Elder	7	Healthy	X
4	Ash/Green	5	Healthy	X
5	Hackberry	4	Healthy	
6	Cedar/White	11	Healthy	
7	Maple/Silver	23	Healthy	
8	Maple/Silver	21	Healthy	
9	Maple/Silver	16	Healthy	
10	Oak/ Swamp White	10	Healthy	
11	Basswood/American	23	Healthy	
12	Ash/Green	5	Healthy	X
13	Maple/Red	7	Healthy	
14	Ash/Green	5	Healthy	X
15	Ash/Green	5	Healthy	
16	Box Elder	7	Healthy	
17	Maple/Sugar	16	Healthy	
18	Cottonwood	33	Healthy	
19	Box Elder	4	Healthy	
20	Box Elder	5	Healthy	
21	Box Elder	5	Healthy	
22	Maple/Silver	14	Healthy	
23	Ash/Green	20	Healthy	
24	Maple/Silver	33	Healthy	
25	Ash/Green	4	Healthy	X
30	Box Elder	11	Healthy	
31	Box Elder	4	Dying	X
32	Box Elder	9	Healthy	X
33	Box Elder	4	Healthy	
34	Ash/Green	25	Healthy	
35	Buckthorn	4	Healthy	X
36	Buckthorn	5	Healthy	X
38	Hackberry	5	Healthy	
39	Ash/Green	14	Dead	X
40	Buckthorn	6	Healthy	X
41	Box Elder	5	Dead	
42	Box Elder	4	Healthy	
43	Box Elder	9	Healthy	
45	Hackberry	4	Healthy	
46	Box Elder	4	Healthy	
47	Ash/Green	4	Healthy	X
48	Buckthorn	4	Healthy	X
49	Box Elder	8	Healthy	
50	Ash/Green	10	Healthy	
51	Ash/Green	11	Healthy	
52	Box Elder	12	Healthy	
1410	Box Elder	16	Healthy	
1411	Box Elder	11	Healthy	
1412	Cottonwood	26	Healthy	
1413	Cottonwood	24	Healthy	
1414	Cottonwood	26	Healthy	
1415	Cottonwood	24	Healthy	
1416	Ash/Green	5	Healthy	
1417	Ash/White	4	Healthy	
1418	Cottonwood	33	Healthy	
1419	Box Elder	4	Healthy	
1420	Hackberry	8	Healthy	
1421	Box Elder	9	Healthy	X
1422	Box Elder	12	Healthy	
1423	Maple/Silver	24	Healthy	
1424	Buckthorn	4	Healthy	X
1425	Maple/Silver	12	Healthy	
1426	Maple/Silver	14	Healthy	
1427	Maple/Silver	18	Healthy	
1428	Maple/Silver	18	Healthy	
1429	Maple/Silver	18	Healthy	
1430	Box Elder	13	Healthy	
1431	Hackberry	14	Healthy	
1432	Hackberry	14	Healthy	
1433	Hackberry	15	Healthy	
1434	Hackberry	10	Healthy	
1435	Cottonwood	30	Healthy	
1436	Ash/Green	10	Healthy	
1437	Maple/Amur	6	Healthy	
1438	Ash/Green	14	Healthy	X
1439	Buckthorn	7	Healthy	X
1440	Box Elder	6	Healthy	
1441	Buckthorn	9	Healthy	X
1442	Buckthorn	8	Healthy	X
1443	Walnut/Black	4	Healthy	
1444	Maple/Silver	4	Healthy	X
1445	Buckthorn	10	Healthy	X
1446	Box Elder	12	Dead	
1447	Ash/Green	10	Healthy	
1448	Buckthorn	7	Healthy	X
1449	Ash/Green	18	Healthy	
1450	Buckthorn	7	Healthy	X
1451	Ash/Green	15	Healthy	
1452	Buckthorn	5	Healthy	X
1453	Buckthorn	4	Healthy	X
1454	Buckthorn	4	Healthy	X
1455	Box Elder	8	Healthy	
1456	Box Elder	14	Healthy	
1457	Box Elder	5	Healthy	
1458	Box Elder	13	Healthy	
1459	Basswood/American	16	Dead	
1460	Ash/Green	4	Healthy	X
1461	Buckthorn	4	Healthy	X
1462	Buckthorn	5	Healthy	X
1463	Box Elder	6	Healthy	
1464	Willow/Black	39	Healthy	
1465	Buckthorn	8	Healthy	X
1466	Buckthorn	4	Healthy	X
1467	Buckthorn	4	Healthy	X
1468	Buckthorn	4	Healthy	X
1469	Buckthorn	4	Healthy	X
1470	Buckthorn	4	Healthy	X
1471	Buckthorn	4	Healthy	X
1472	Buckthorn	5	Healthy	X
1473	Buckthorn	5	Healthy	X
1474	Buckthorn	7	Healthy	X
1475	Buckthorn	13	Healthy	
1476	Ash/Black	13	Healthy	
1477	Buckthorn	5	Healthy	X
1478	Buckthorn	5	Healthy	X
1479	Buckthorn	4	Healthy	X

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BARR PROJECT # 23272114.00
DWG # G-12
REV # B

BASSETT CREEK MAIN STEM RESTORATION - PHASE I
GOLDEN VALLEY, MINNESOTA

EXISTING CONDITIONS, REMOVALS, TREE PROTECTION
& EROSION CONTROL PLAN
(STA. 63+00 TO 72+00)

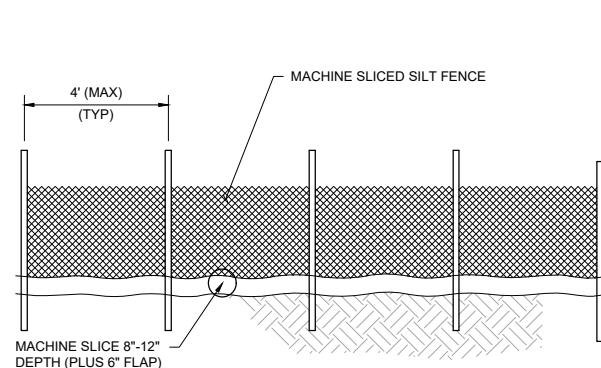
I HEREBY CERTIFY THAT THIS PLAN, SPECIFICATION, OR REPORT WAS PREPARED BY ME OR UNDER MY DIRECT SUPERVISION AND THAT I AM A DULY LICENSED PROFESSIONAL ENGINEER UNDER THE LAWS OF THE STATE OF MINNESOTA.

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DATE: _____ LICENSE #: _____

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B EPF ADB2 JCO 11/13/2025 ISSUED FOR REVIEW
A EPF JCO 06/20/2025 ISSUED FOR REVIEW
BY CHK APP DATE RELEASE/REVISION DESCRIPTION

BARR
BARR ENGINEERING CO.
4300 MARKETPOINTE DRIVE
SUITE 200
MINNEAPOLIS, MN 55435
PH: 1-800-632-2277
WWW.BARR.COM
MINNESOTA ENGINEERING FIRM
NUMBER 1010411545

BASSETT CREEK WATERSHED MANAGEMENT COMMISSION
GOLDEN VALLEY, MINNESOTA

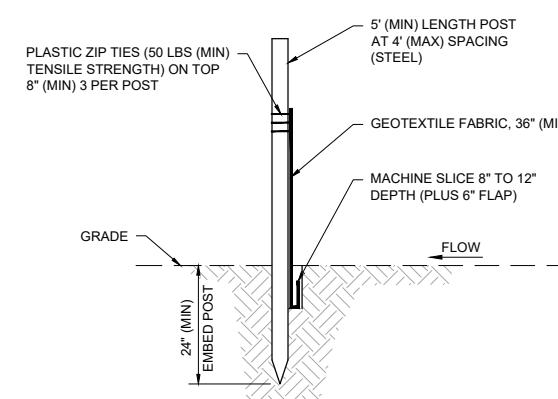


DOWNSTREAM VIEW

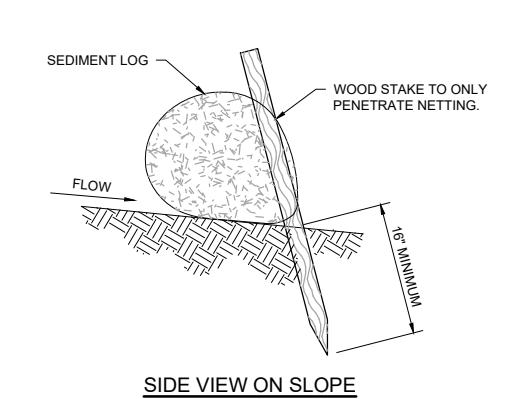
NOTES:

1. INSTALL SILT FENCE PRIOR TO ANY GRADING WORK IN THE AREA TO BE PROTECTED AND MAINTAIN THROUGHOUT THE CONSTRUCTION PERIOD. REMOVE SILT FENCE AND ANY ACCUMULATED SEDIMENT IN CONJUNCTION WITH THE FINAL GRADING AND SITE STABILIZATION.
2. NO HOLES OR GAPS SHALL BE PRESENT IN/UNDER SILT FENCE. PREPARE AREA AS NEEDED TO SMOOTH SURFACE OR REMOVE DEBRIS.
3. REMOVE ACCUMULATED SEDIMENT WHEN BUILD UP REACHES 1/2 OF FENCE HEIGHT. OR INSTALL A SECOND SILT FENCE DOWNSTREAM OF THE ORIGINAL FENCE AT A SUITABLE DISTANCE.
4. WHEN SPLICES ARE NECESSARY MAKE SPLICE AT POST ACCORDING TO SPLICE DETAIL. PLACE THE END POST OF THE SECOND FENCE INSIDE THE END POST OF THE FIRST FENCE. ROTATE BOTH POSTS TOGETHER AT LEAST 180 DEGREES TO CREATE A TIGHT SEAL WITH THE FABRIC MATERIAL. CUT THE FABRIC NEAR THE BOTTOM OF THE POSTS TO ACCOMMODATE THE 6 INCH FLAP, THEN DRIVE BOTH POSTS AND BURY THE FLAP AND COMPACT BACKFILL.

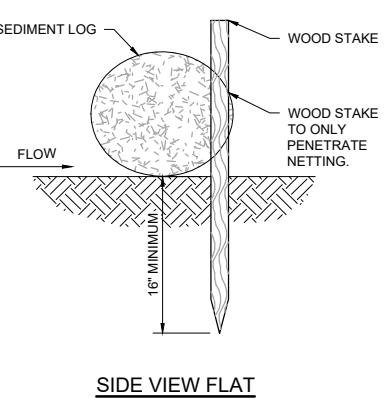
1 DETAIL: SILT FENCE - MACHINE SLICED
- NOT TO SCALE



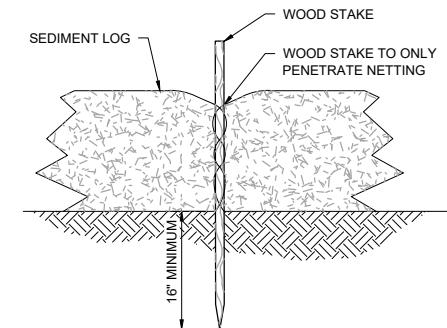
SECTION VIEW



SIDE VIEW ON SLOPE



SIDE VIEW FLAT

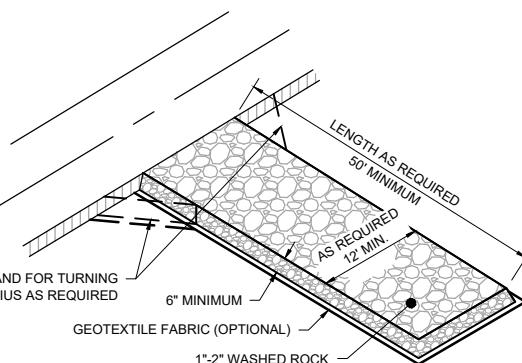


FRONT VIEW

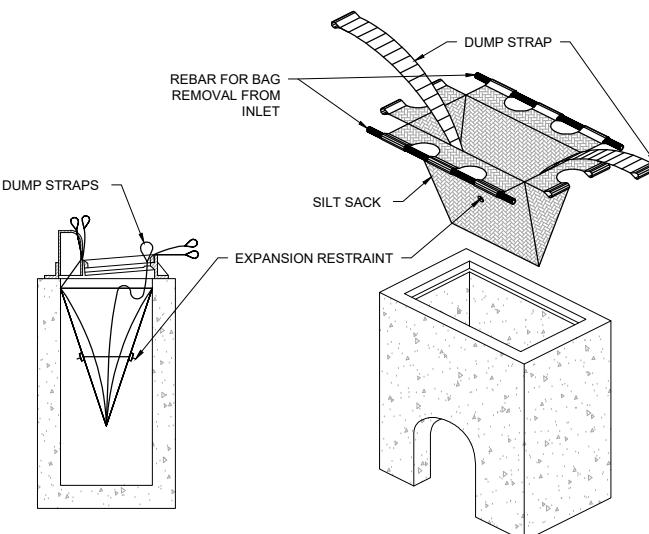
NOTES:

1. INSTALL SEDIMENT LOG ALONG CONTOURS (CONSTANT ELEVATION).
2. NO GAPS SHALL BE PRESENT UNDER SEDIMENT LOG. PREPARE AREA AS NEEDED TO SMOOTH SURFACE OR REMOVE DEBRIS.
3. REMOVE ACCUMULATED SEDIMENT WHEN REACHING 1/3 OF LOG HEIGHT.
4. MAINTAIN SEDIMENT LOG THROUGHOUT THE CONSTRUCTION PERIOD AND REPAIR OR REPLACED AS REQUIRED.

2 DETAIL: SEDIMENT LOG - STAKING
- NOT TO SCALE



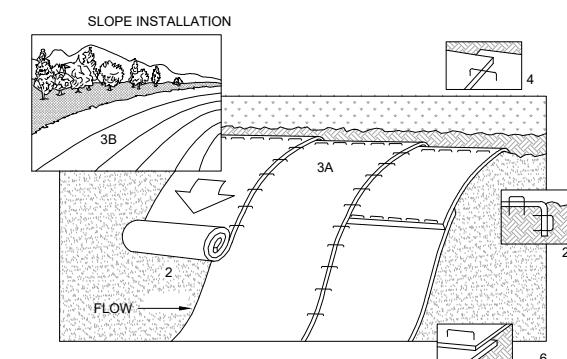
TOP VIEW



NOTES:

1. INSTALL INLET PROTECTION PRIOR TO ANY GRADING WORK IN THE AREA TO BE PROTECTED OR IMMEDIATELY FOLLOWING ANY CATCHBASIN INSTALLATION AND MAINTAIN THROUGHOUT THE CONSTRUCTION PERIOD.
2. MATERIALS SHALL BE SUFFICIENT TO ALLOW FLOW WHILE BLOCKING SEDIMENT. NO HOLES OR GAPS SHALL BE PRESENT IN/AROUND FILTER SACK.
3. CLEAN FILTER SACK AND REMOVE ACCUMULATED SEDIMENT AS REQUIRED TO ALLOW FLOW INTO THE CATCHBASIN AND PREVENT SEDIMENT FROM LEAVING THE DEVICE.
4. REMOVE DEVICE AND ANY ACCUMULATED SEDIMENT IN CONJUNCTION WITH THE FINAL GRADING AND SITE STABILIZATION.

3 DETAIL: INLET PROTECTION, FILTER SACK TYPE
- NOT TO SCALE



NOTES:

1. REFER TO MANUFACTURER RECOMMENDATIONS FOR STAPLE PATTERNS FOR SLOPE INSTALLATIONS.
2. PREPARE SOIL BY LOOSENING TOP 1-2 INCHES AND APPLY SEED (AND FERTILIZER WHERE REQUIRED) PRIOR TO INSTALLING BLANKETS. GROUND SHOULD BE SMOOTH AND FREE OF DEBRIS.
3. BEGIN (A) AT THE TOP OF THE SLOPE AND ROLL THE BLANKETS DOWN OR (B) AT ONE END OF THE SLOPE AND ROLL THE BLANKETS HORIZONTALLY ACROSS THE SLOPE.
4. THE EDGES OF PARALLEL BLANKETS MUST BE STAPLED WITH APPROXIMATELY 6" OVERLAP, WITH THE UPHILL BLANKET ON TOP.
5. WHEN BLANKETS MUST BE SPLICED DOWN THE SLOPE, PLACE BLANKETS END OVER END (SHINGLE STYLE) WITH APPROXIMATELY 6" OVERLAP. STAPLE THROUGH OVERLAPPED AREA, APPROXIMATELY 12" APART.
6. BLANKET MATERIALS SHALL BE AS SPECIFIED OR AS APPROVED BY ENGINEER.

4 DETAIL: EROSION CONTROL BLANKET - INSTALLATION
- NOT TO SCALE

NOTES:

1. MAINTAIN ENTRANCE THROUGHOUT THE CONSTRUCTION PERIOD AND REPAIR OR REPLACE AS REQUIRED TO PREVENT TRACKING OFFSITE.
2. REMOVE ENTRANCE IN CONJUNCTION WITH FINAL GRADING AND SITE STABILIZATION.
3. INCLUDE WASH-OFF BERM WITH A MINIMUM HEIGHT OF 2 FEET ABOVE THE ADJACENT ROADWAY AND WITH MAXIMUM SIDE SLOPES OF 4:1.
4. IF CONSTRUCTION ENTRANCE IS LESS THAN 50 FT, ALTERNATIVE EQUIVALENT MEASURES MUST BE TAKEN AND APPROVED BY ENGINEER PRIOR TO INSTALLATION.

5 DETAIL: CONSTRUCTION ENTRANCE - ROCK
- NOT TO SCALE

BASSETT CREEK MAIN STEM RESTORATION - PHASE 1
GOLDEN VALLEY, MINNESOTA

EROSION CONTROL DETAILS

BARR PROJECT # 23272114.00
DWG # G-13
REV # B

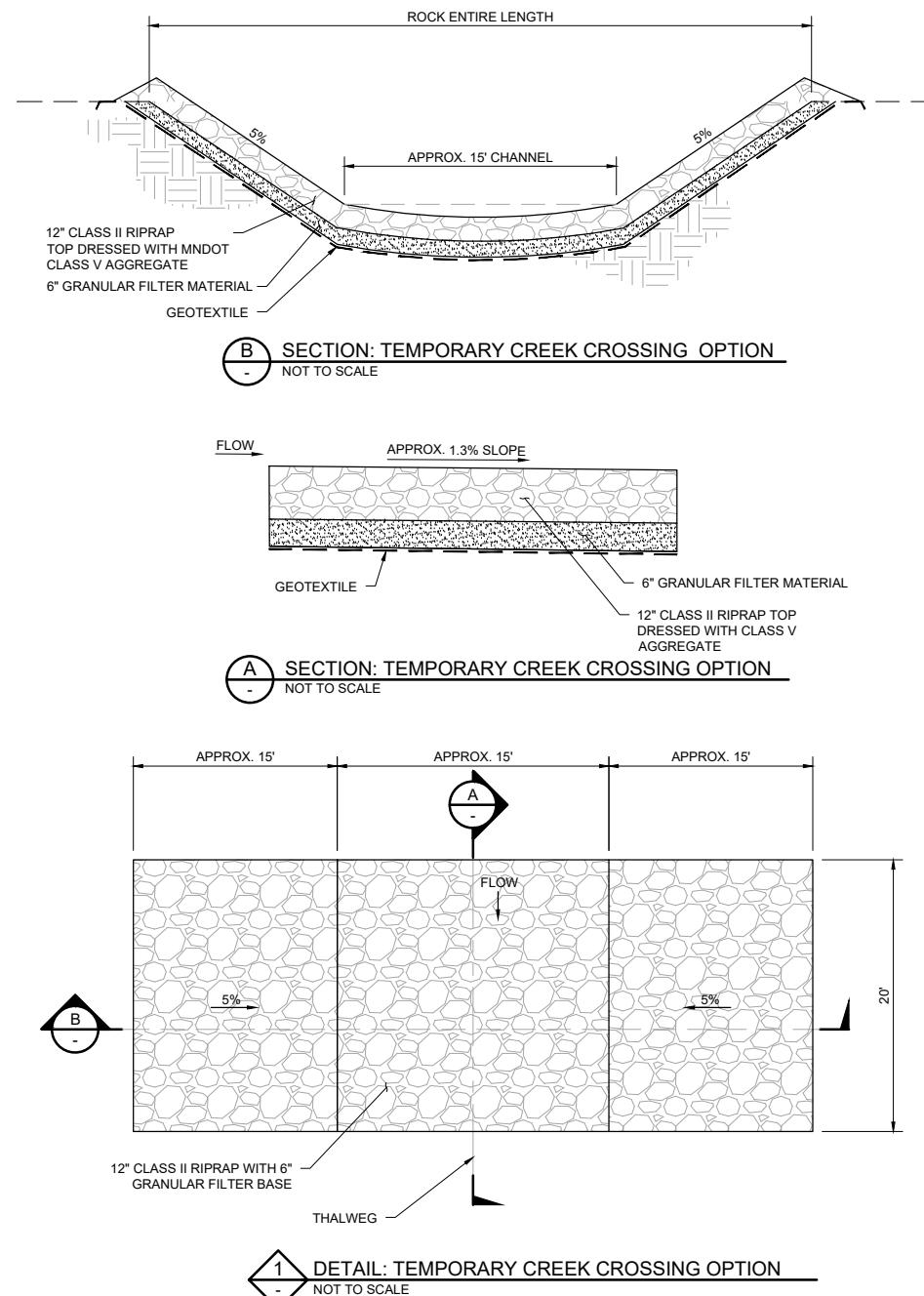
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NUMBER 10104111545

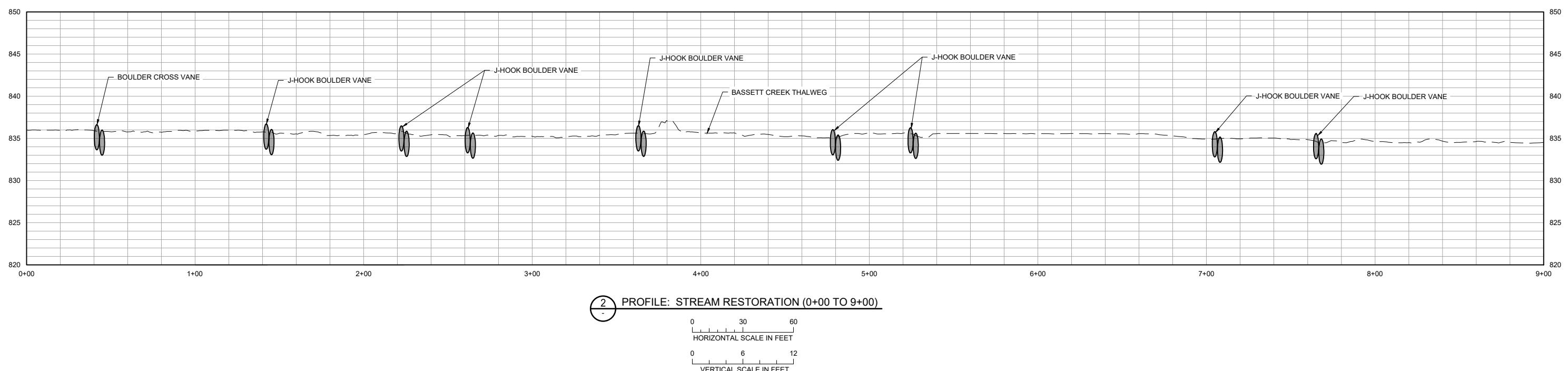
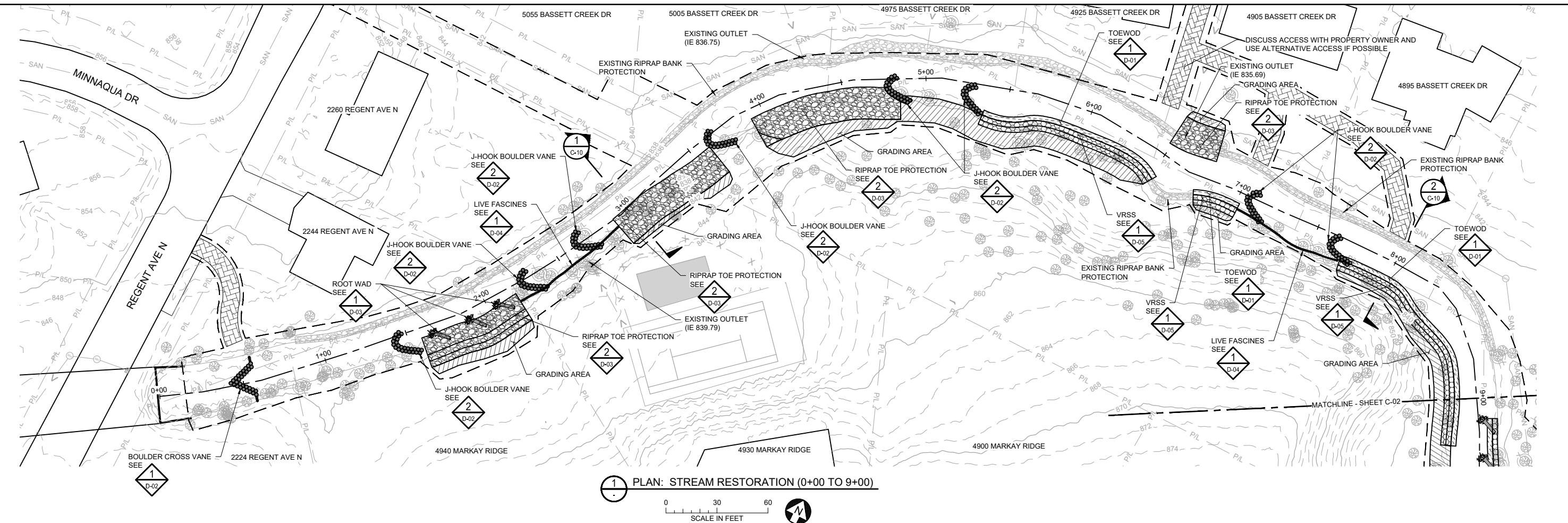
BASSETT CREEK WATERSHED MANAGEMENT COMMISSION
GOLDEN VALLEY, MINNESOTA

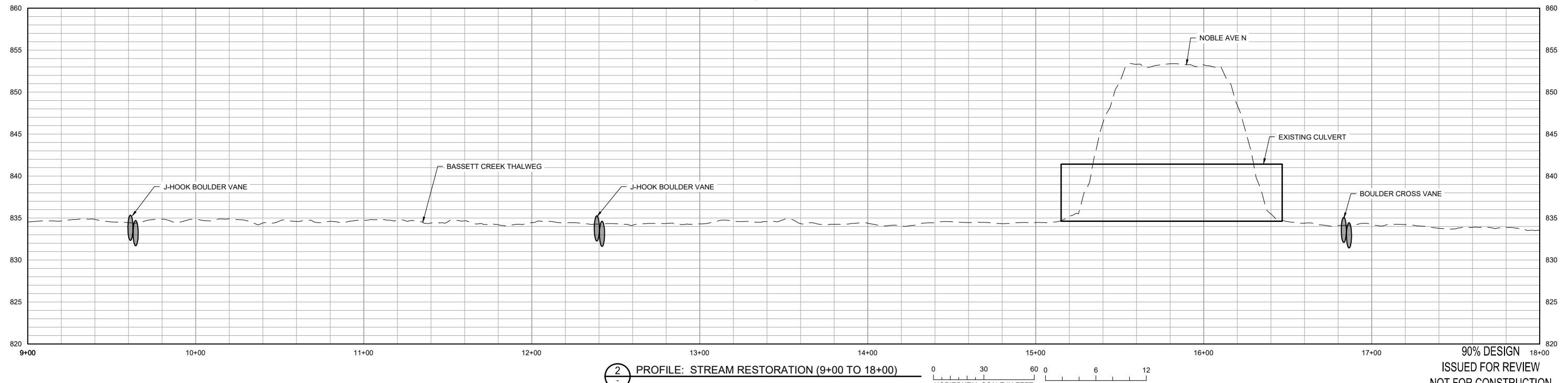
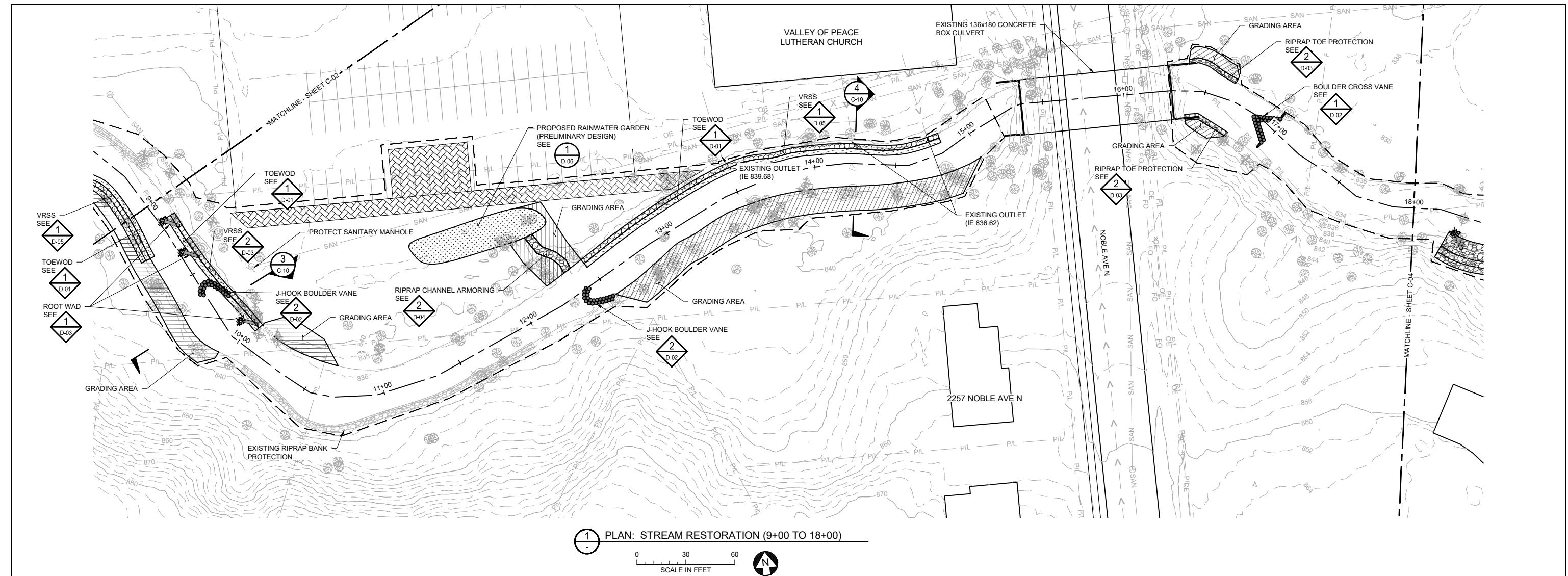
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B	EPF	ADB2	JCO	11/13/2025	ISSUED FOR REVIEW
A	EPF	JCO	JCO	06/20/2025	ISSUED FOR REVIEW
#	BY	CHK	APP	DATE	RELEASE/REVISION DESCRIPTION







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A EPF JCO JCO 06/20/2025 ISSUED FOR REVIEW
BY CHK APP DATE RELEASE/REVISION DESCRIPTION

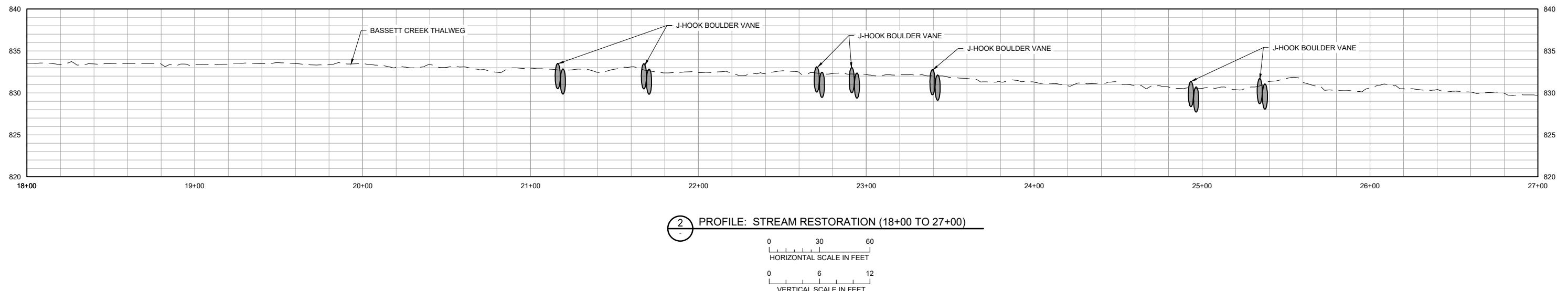
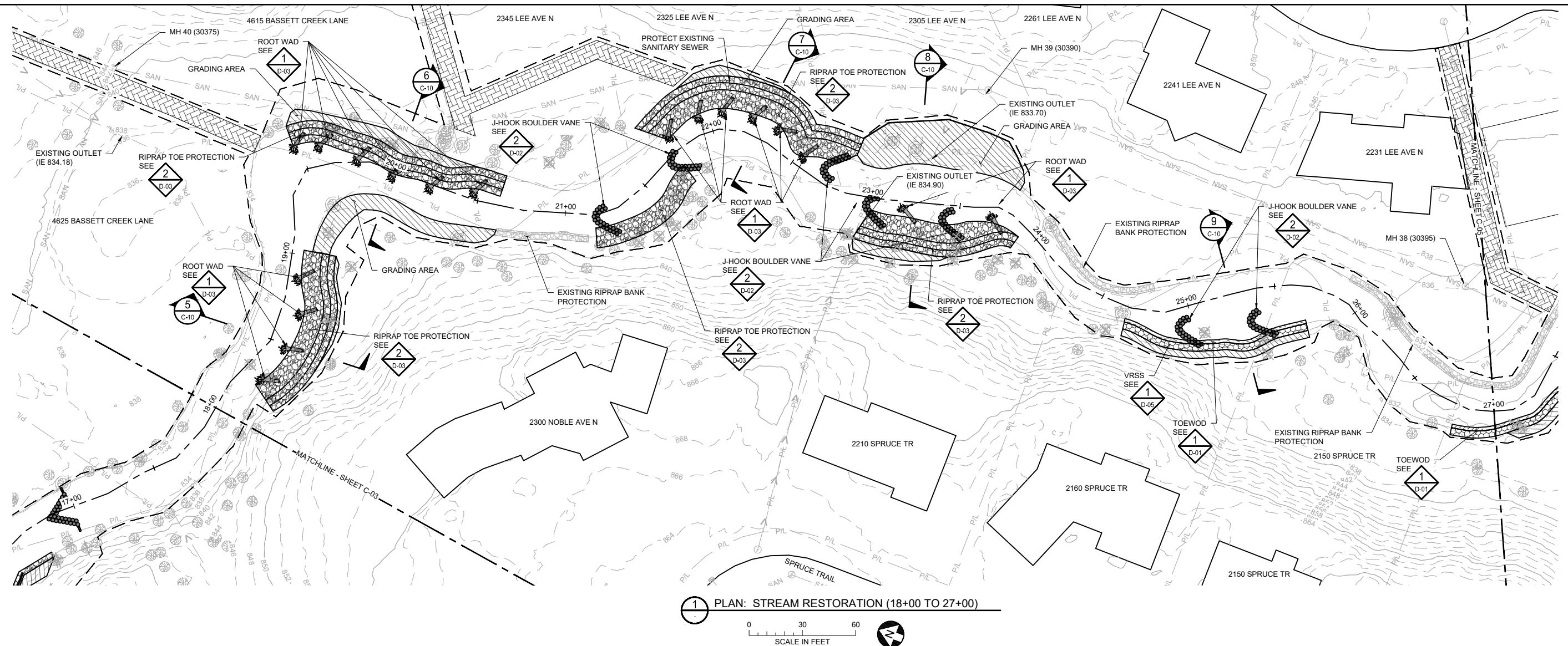
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MINNESOTA ENGINEERING FIRM
NUMBER 10104111545

BASSETT CREEK WATERSHED MANAGEMENT COMMISSION
GOLDEN VALLEY, MINNESOTA

BASSETT CREEK MAIN STEM RESTORATION - PHASE 1
GOLDEN VALLEY, MINNESOTA
STREAM RESTORATION
PLAN & PROFILE
(STA. 9+00 TO 18+00)

BARR PROJECT # 23272114.00
DWG # C-03
REV # B

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EPF	ADB2	JCO	11/13/2025	ISSUED FOR R
EPF	JCO	JCO	06/20/2025	ISSUED FOR R
BY	CHK	APP	DATE	

RELEASE/REVISION DESCRIPTION

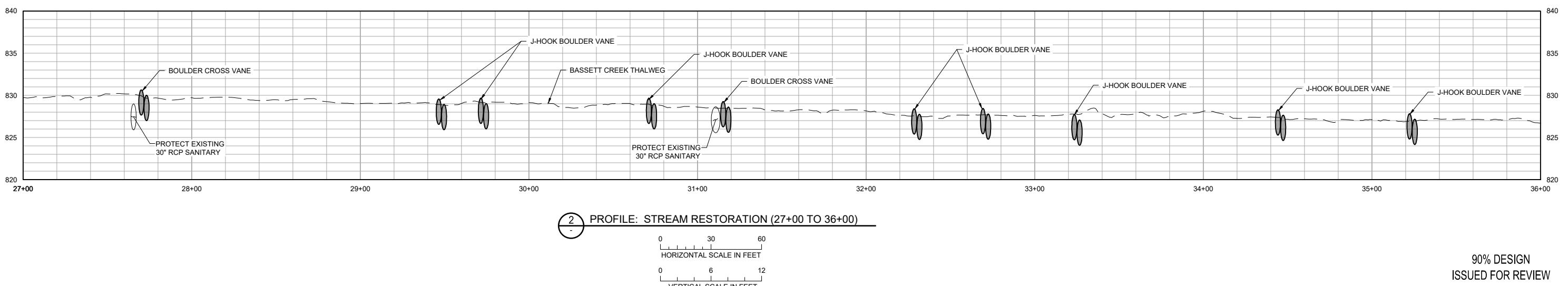
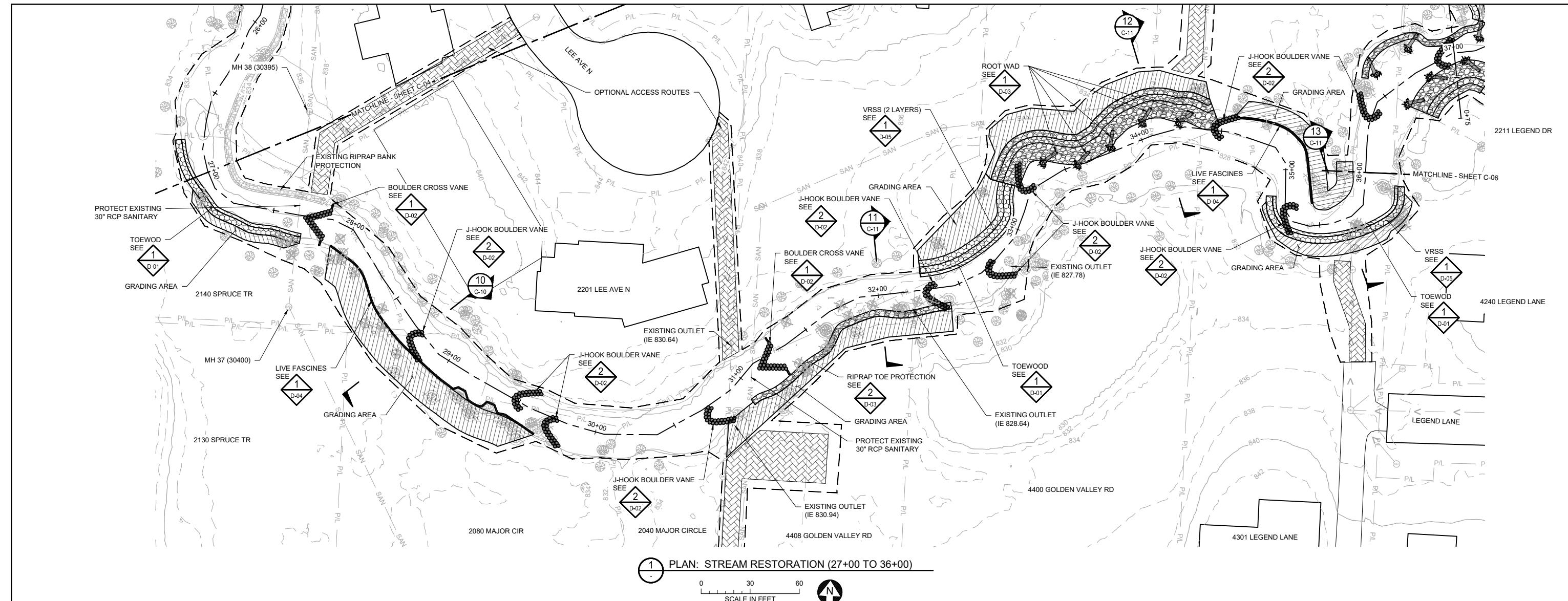
BASSETT CREEK WATERSHED MANAGEMENT COMMISSION
GOLDEN VALLEY, MINNESOTA

1

**BASSETT CREEK MAIN STEM RESTORATION- PHASE 1
GOLDEN VALLEY, MINNESOTA
STREAM RESTORATION**

PLAN & PROFILE
(STA. 18+00 TO 27+00)

BARR PROJECT #
23272114.00
DWG #
C-04
REV #
B



ORIGINAL DRAWING SIZE: ANSI FULL BLEED (11.00 X 17.00 INCHES) PLOT SCALE: 1:1 PLOT DATE: 11/13/2025 11:39 AM
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PROFESSIONAL ENGINEER UNDER THE LAWS OF THE
STATE OF MINNESOTA.

PRINTED NAME _____
SIGNATURE _____

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-	-	-	-	-
-	-	-	-	-
-	-	-	-	-
B	EPF	ADB2	JCO	11/13/20
A	EPF	JCO	JCO	06/20/20
#	BY	CHUK	APP	DATE

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The logo for BARR Engineering consists of a stylized 'B' and 'A' graphic followed by the word 'BARR' in a bold, sans-serif font. Below the graphic, the company name 'BARR ENGINEERING CO.' is printed in a smaller, all-caps sans-serif font, with '4300 MARKETPOINTE DRIVE' and 'SUITE 200' on separate lines. To the right, the phone number 'PH: 1-800-632-3333' and website 'WWW.BARR.COM' are listed, with 'MINNESOTA ENGINEERS' in a smaller font at the bottom right.

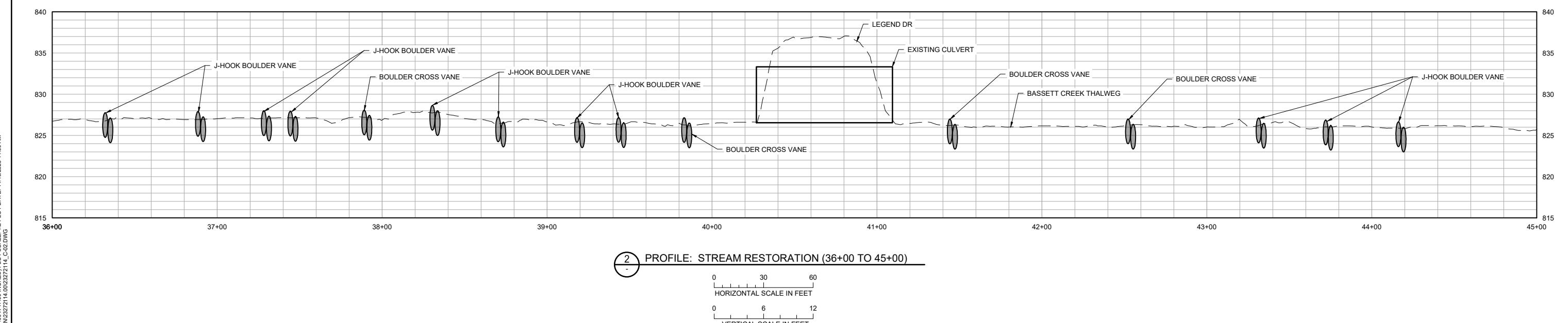
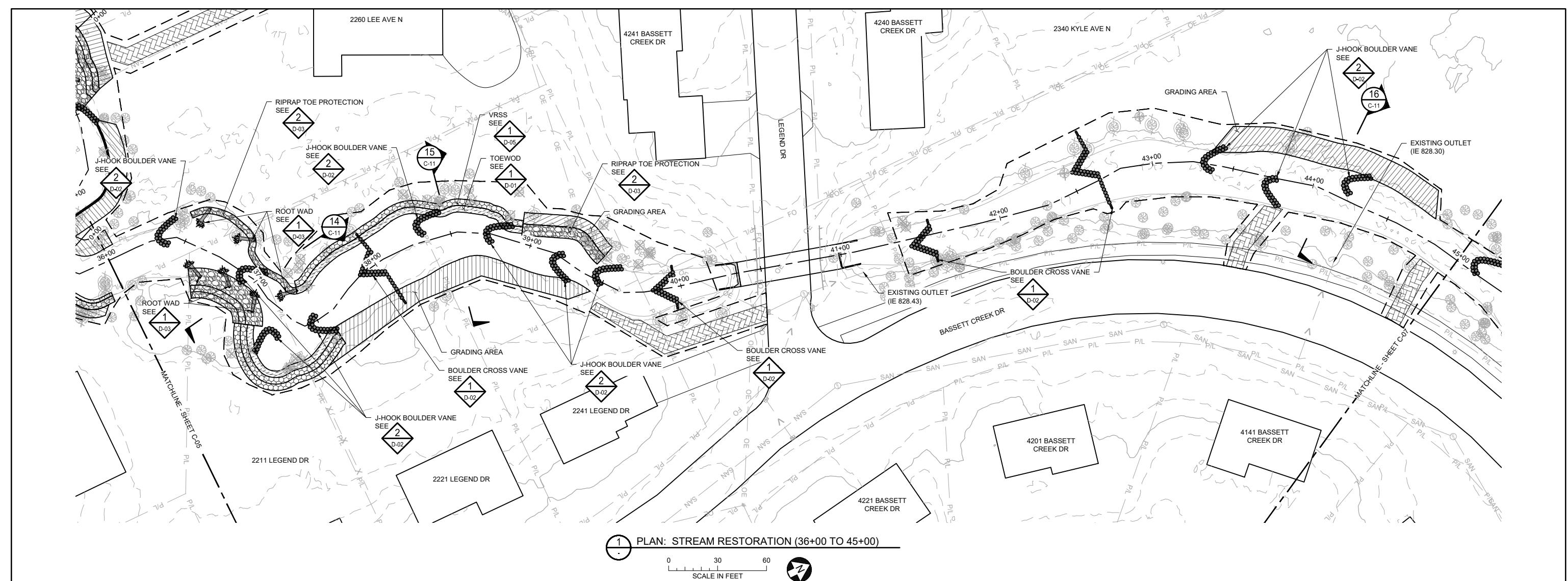
BASSETT CREEK WATERSHED MANAGEMENT COMMISSION
GOLDEN VALLEY, MINNESOTA

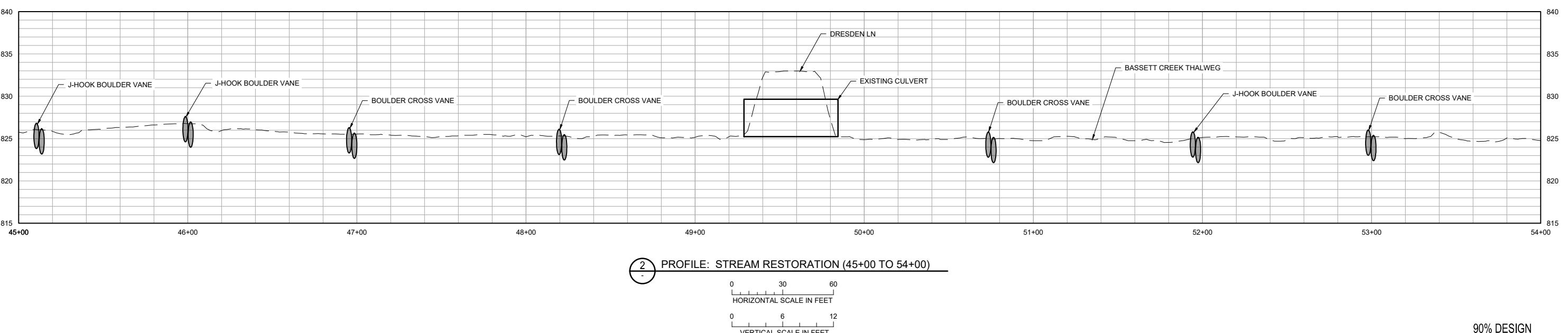
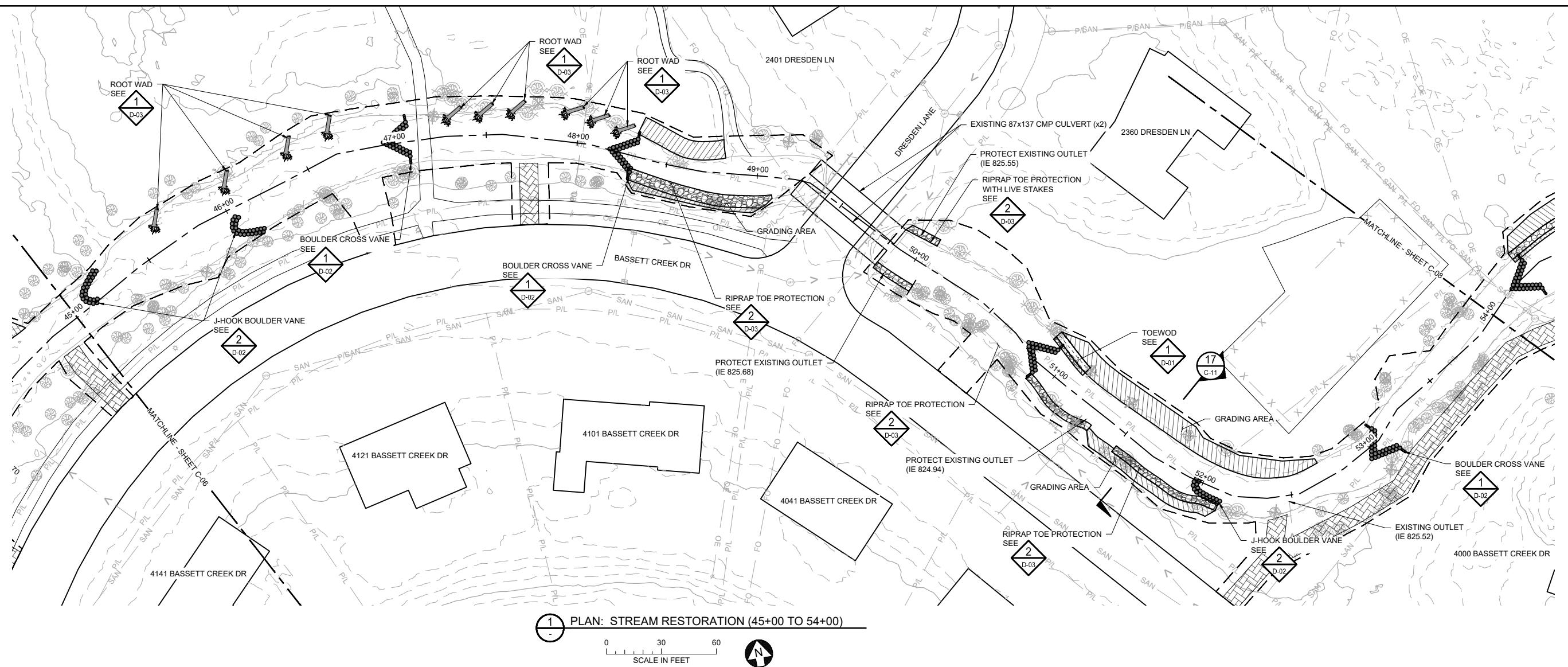
11. *What is the primary purpose of the following statement?*

BASSETT CREEK MAIN STEM RESTORATION - PHASE 1
GOLDEN VALLEY, MINNESOTA
STREAM RESTORATION

**STAKEOUT RESTORATION
PLAN & PROFILE
(STA. 27+00 TO 36+00)**

BARR PROJECT #
23272114.00
DWG #
C-05
REV #
B





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A EPF JCO JCO 06/20/2025 ISSUED FOR REVIEW
BY CHK APP DATE RELEASE/REVISION DESCRIPTION

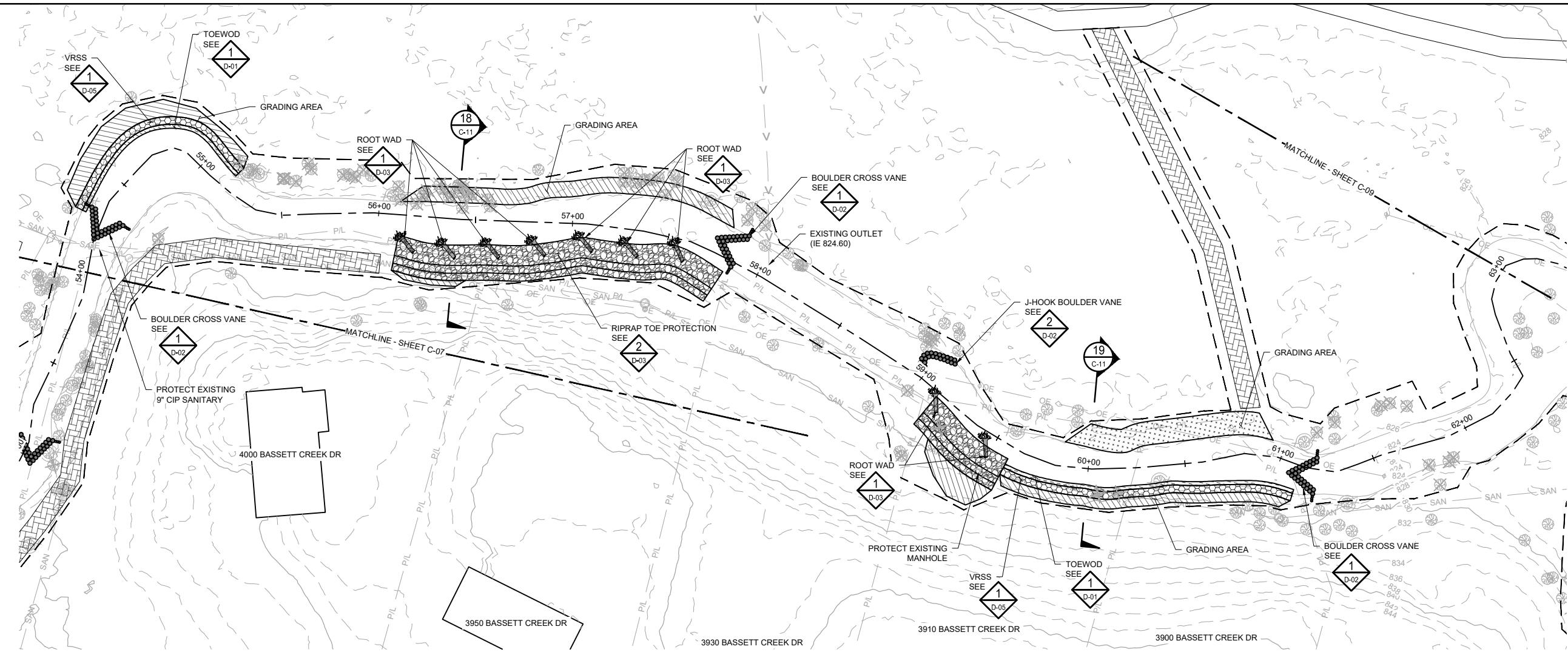


BASSETT CREEK WATERSHED MANAGEMENT COMMISSION
GOLDEN VALLEY, MINNESOTA

BASSETT CREEK MAIN STEM RESTORATION - PHASE 1
GOLDEN VALLEY, MINNESOTA
STREAM RESTORATION
PLAN & PROFILE
(STA. 45+00 TO 54+00)

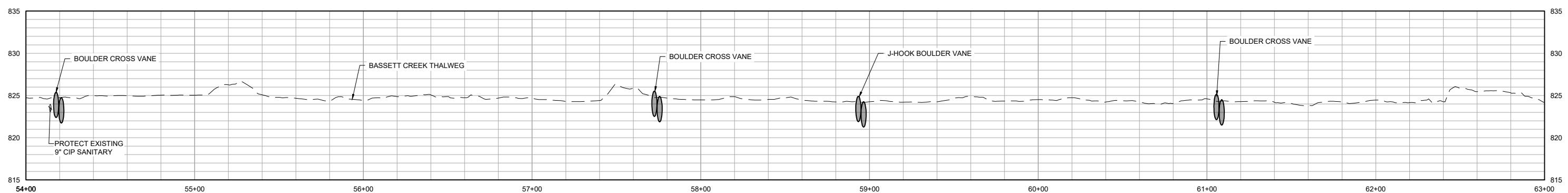
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1 PLAN: STREAM RESTORATION (54+00 TO 63+00)

0 30 60
SCALE IN FEET

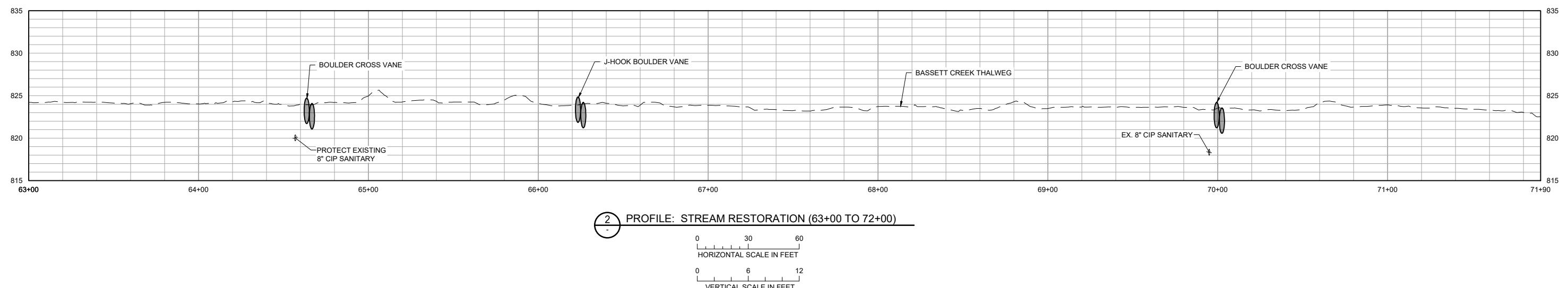
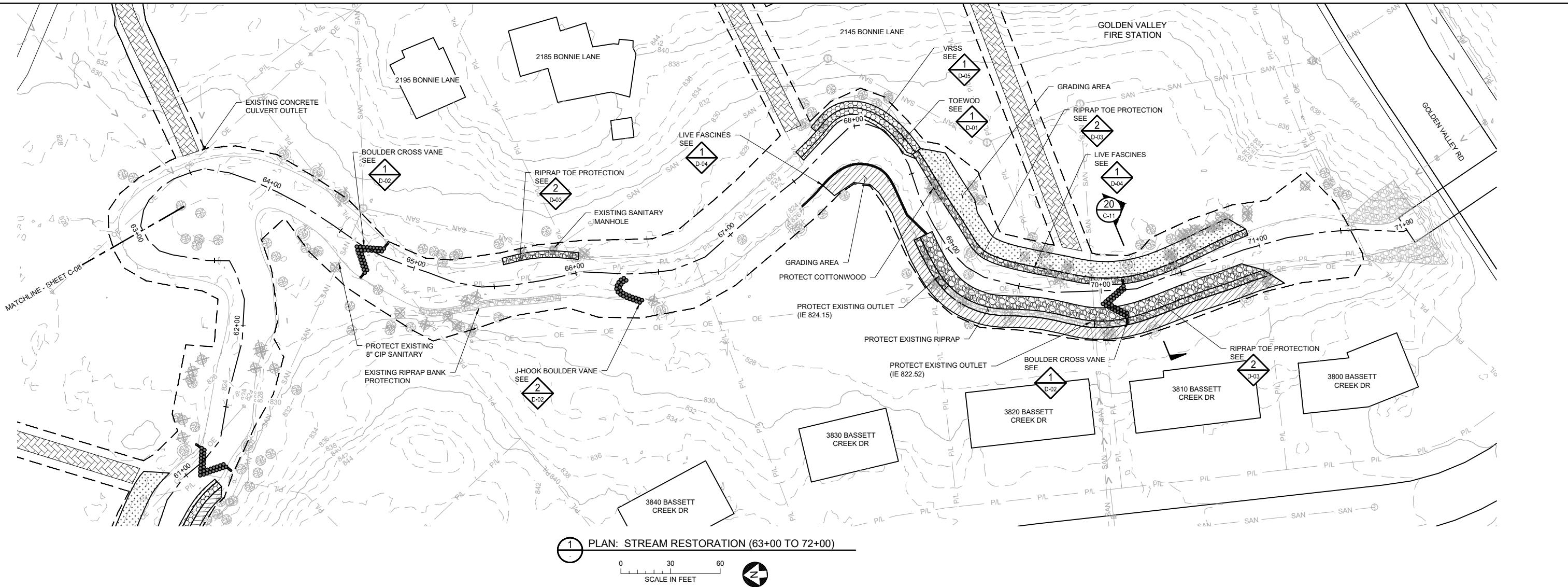


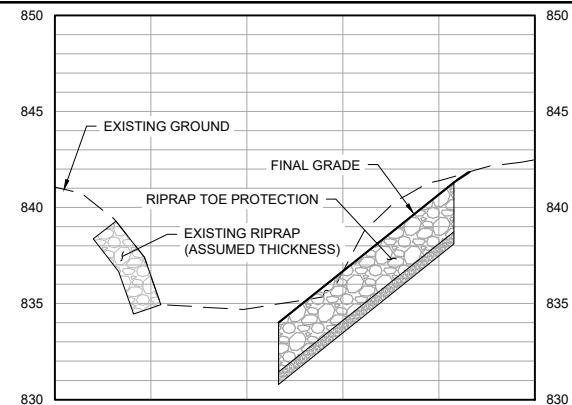
2 PROFILE: STREAM RESTORATION (54+00 TO 63+00)

0 30 60
HORIZONTAL SCALE IN FEET

0 6 12
VERTICAL SCALE IN FEET

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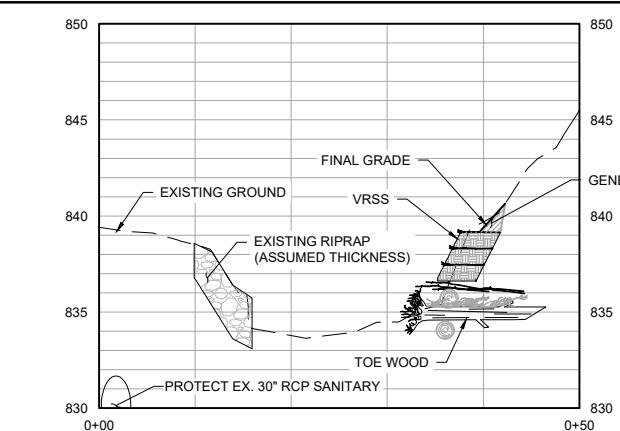




1 SECTION: STREAM RESTORATION (STA. 3+00)

0 10 20
HORIZONTAL SCALE IN FEET

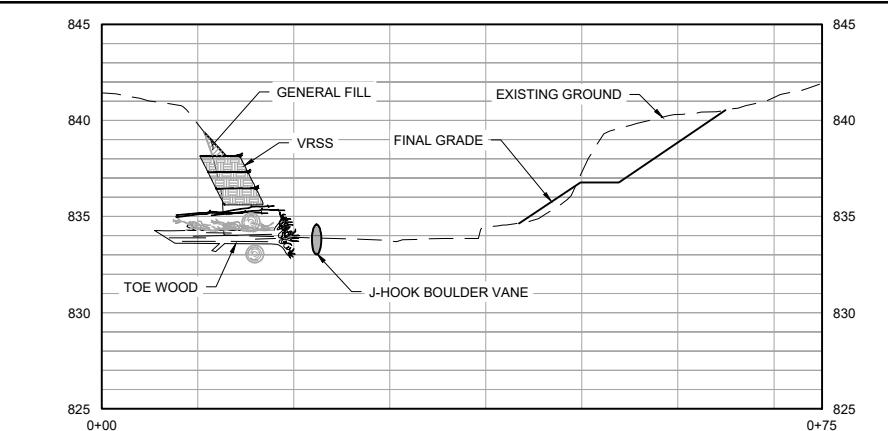
0 5 10
VERTICAL SCALE IN FEET



2 SECTION: STREAM RESTORATION (STA. 8+00)

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HORIZONTAL SCALE IN FEET

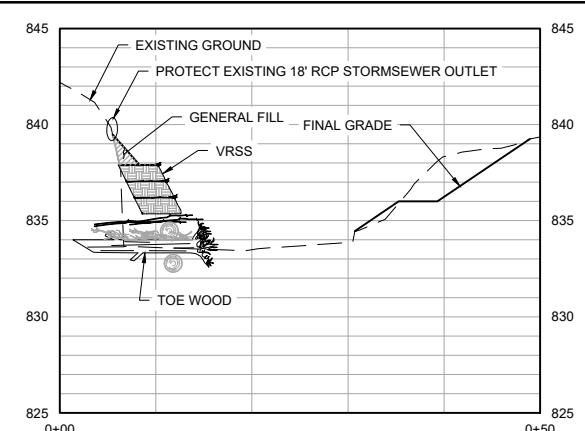
0 5 10
VERTICAL SCALE IN FEET



3 SECTION: STREAM RESTORATION (STA. 9+75)

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HORIZONTAL SCALE IN FEET

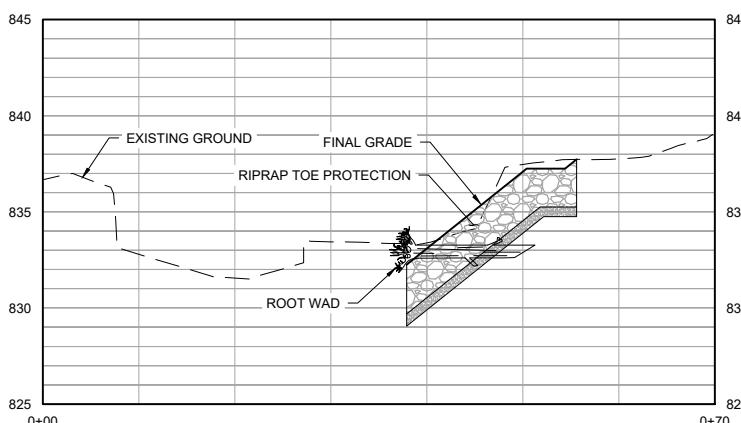
0 5 10
VERTICAL SCALE IN FEET



4 SECTION: STREAM RESTORATION (STA. 14+25)

0 10 20
HORIZONTAL SCALE IN FEET

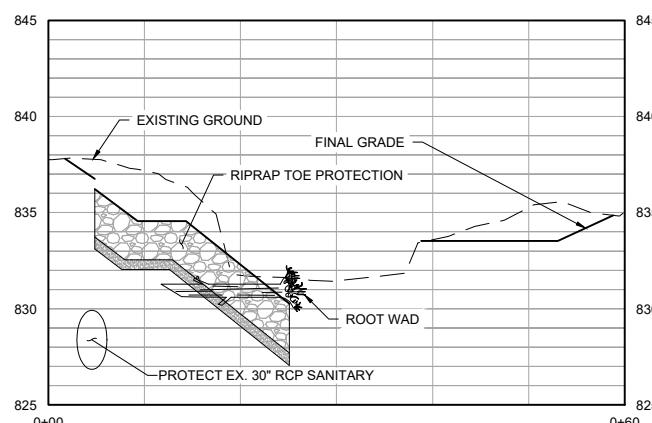
0 5 10
VERTICAL SCALE IN FEET



5 SECTION: STREAM RESTORATION (STA. 18+50)

0 10 20
HORIZONTAL SCALE IN FEET

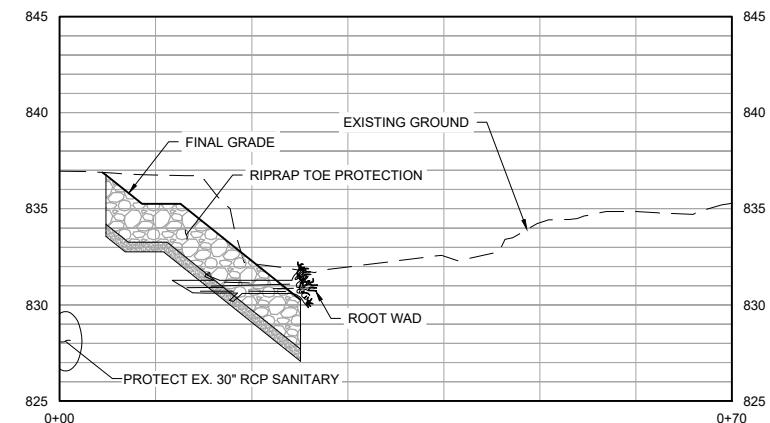
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VERTICAL SCALE IN FEET



6 SECTION: STREAM RESTORATION (STA. 20+00)

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HORIZONTAL SCALE IN FEET

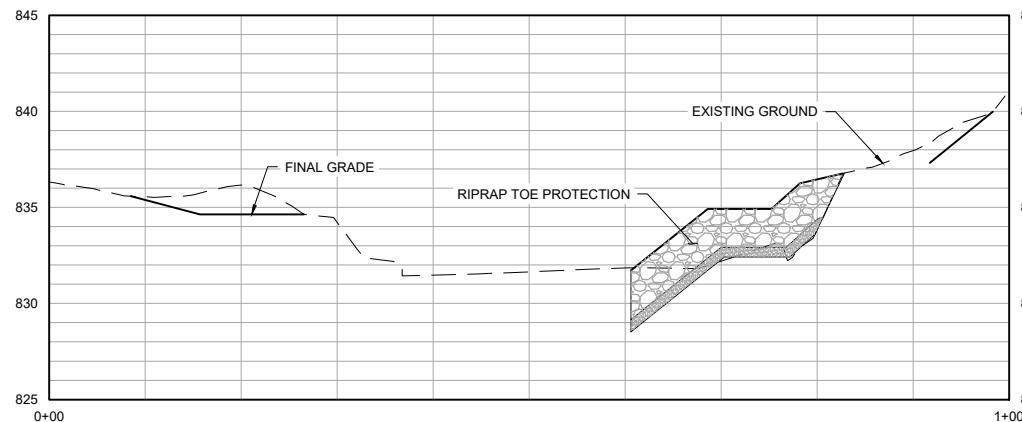
0 5 10
VERTICAL SCALE IN FEET



7 SECTION: STREAM RESTORATION (STA. 22+25)

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HORIZONTAL SCALE IN FEET

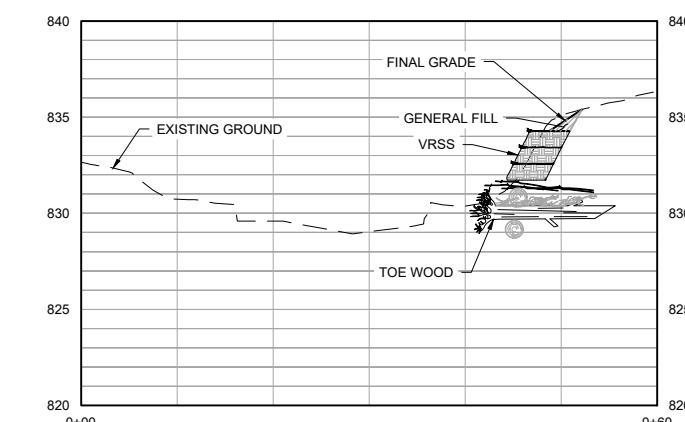
0 5 10
VERTICAL SCALE IN FEET



8 SECTION: STREAM RESTORATION (STA. 23+25)

0 10 20
HORIZONTAL SCALE IN FEET

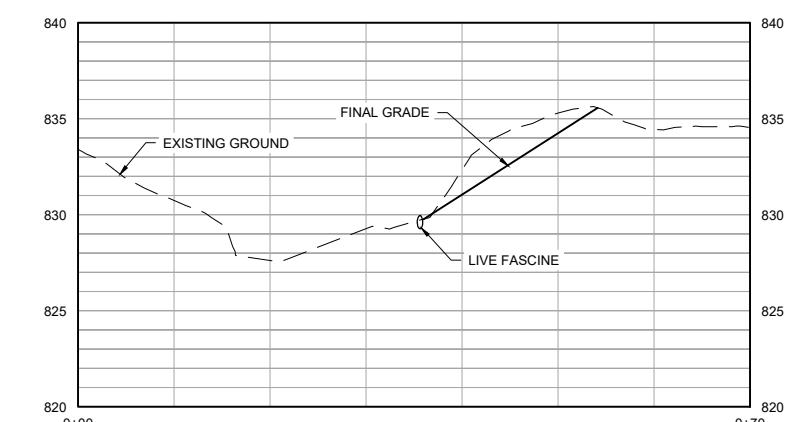
0 5 10
VERTICAL SCALE IN FEET



9 SECTION: STREAM RESTORATION (STA. 25+25)

0 10 20
HORIZONTAL SCALE IN FEET

0 5 10
VERTICAL SCALE IN FEET



10 SECTION: STREAM RESTORATION (STA. 28+75)

0 10 20
HORIZONTAL SCALE IN FEET

0 5 10
VERTICAL SCALE IN FEET

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BASSETT CREEK WATERSHED MANAGEMENT COMMISSION
GOLDEN VALLEY, MINNESOTA

BASSETT CREEK MAIN STEM RESTORATION - PHASE 1
GOLDEN VALLEY, MINNESOTA

BARR PROJECT # 23272114.00
DWG # C-10
REV # B

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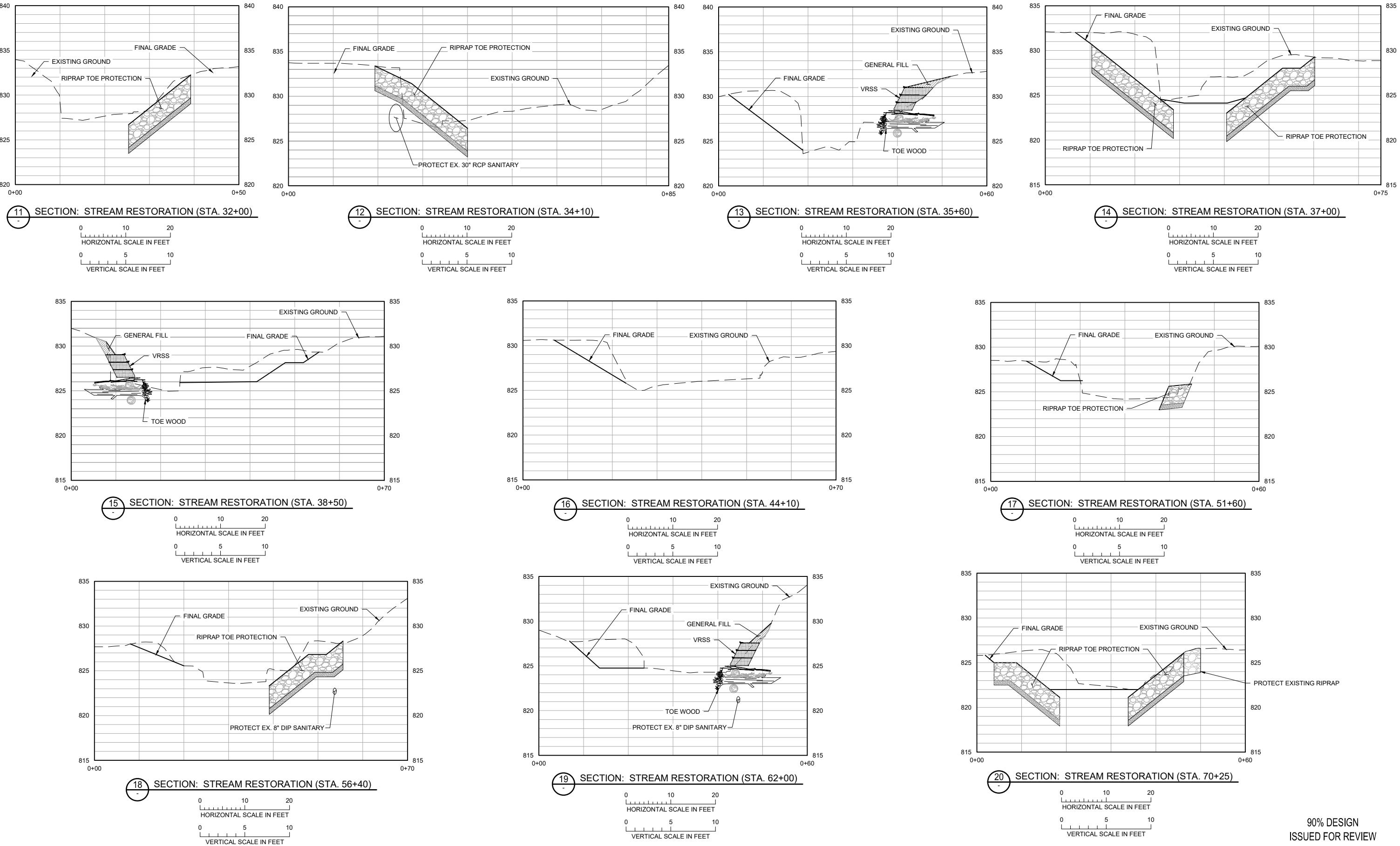
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A EPP JCO JCO 06/20/2025 ISSUED FOR REVIEW

BY CHK APP DATE

RELEASE/REVISION DESCRIPTION

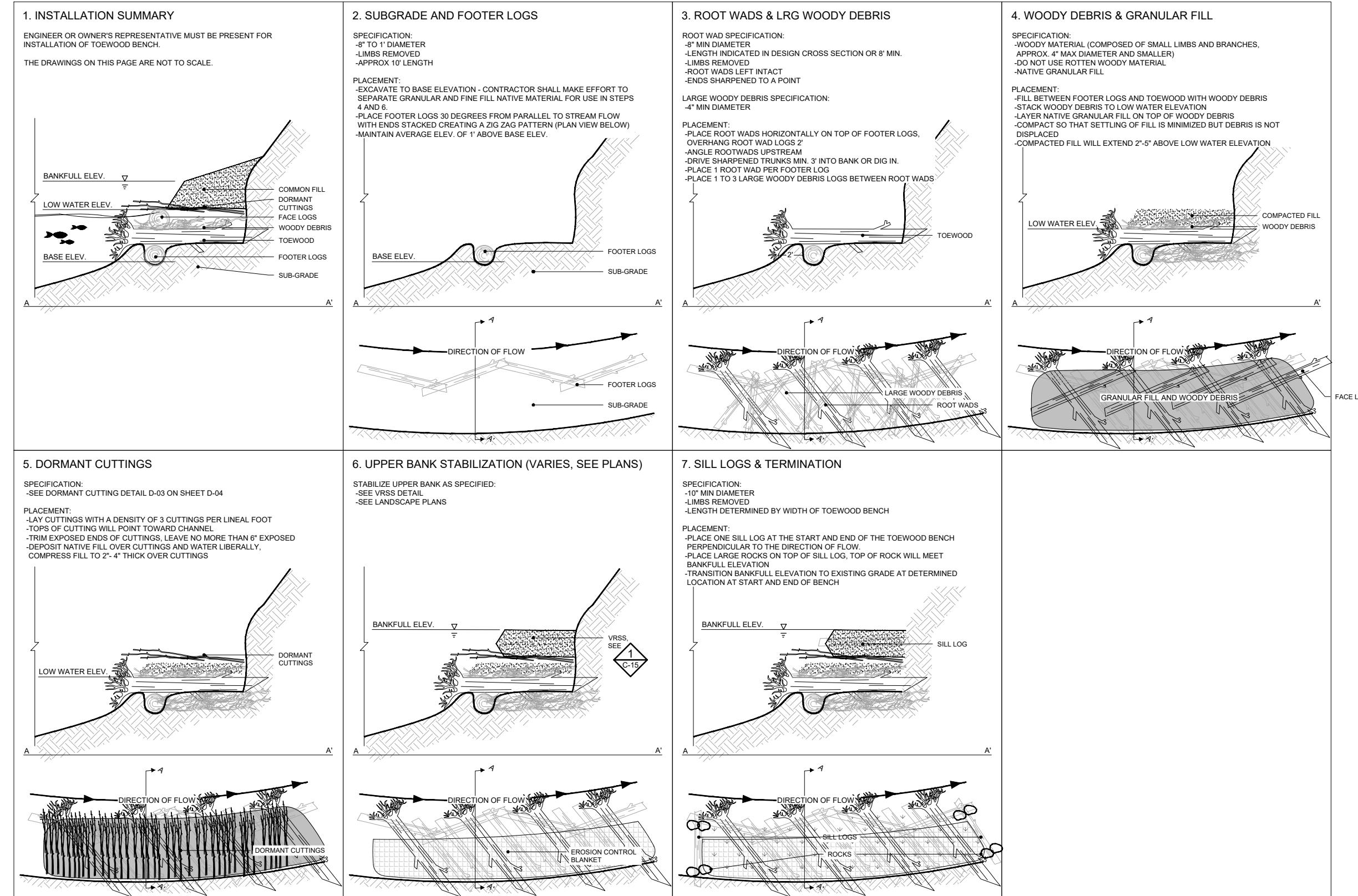
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SUITE 200
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PH: 1-800-632-2277
WWW.BARR.COM
MINNESOTA ENGINEERING FIRM
NUMBER 10104111545

STREAM SECTIONS



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STREAM SECTIONS											



1 DETAIL: TOE WOOD
NOT TO SCALE

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BY CHK APP DATE RELEASE/REVISION DESCRIPTION

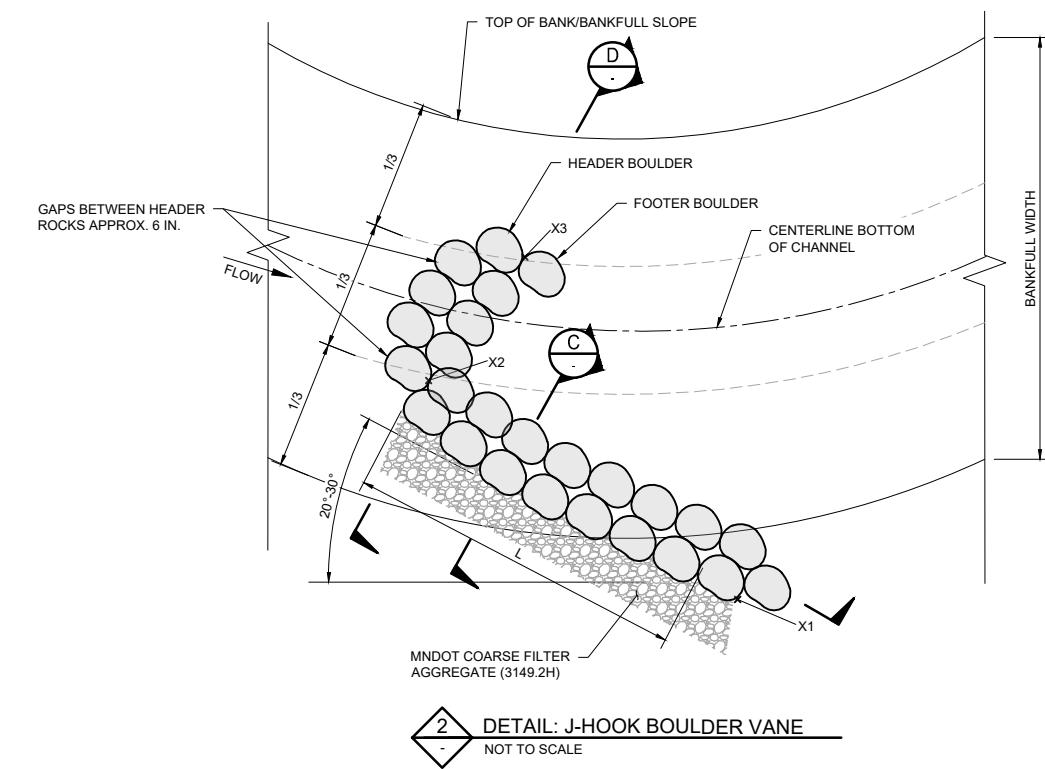
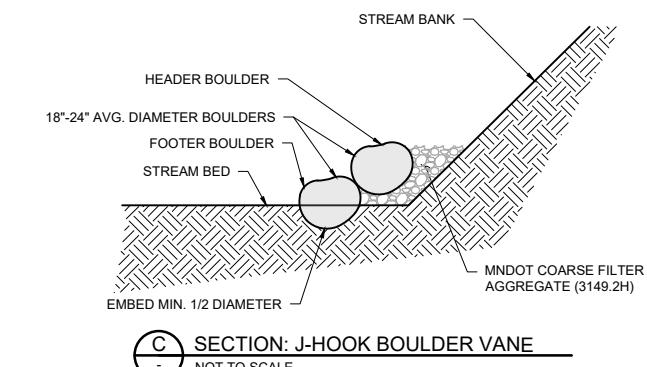
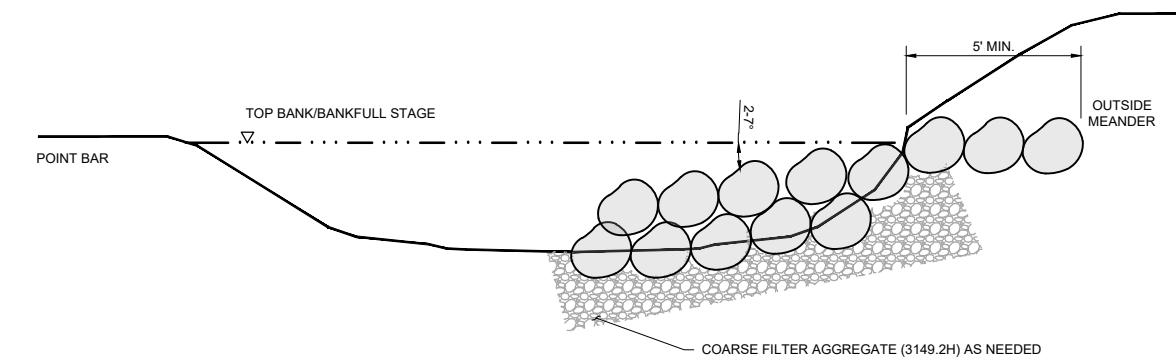
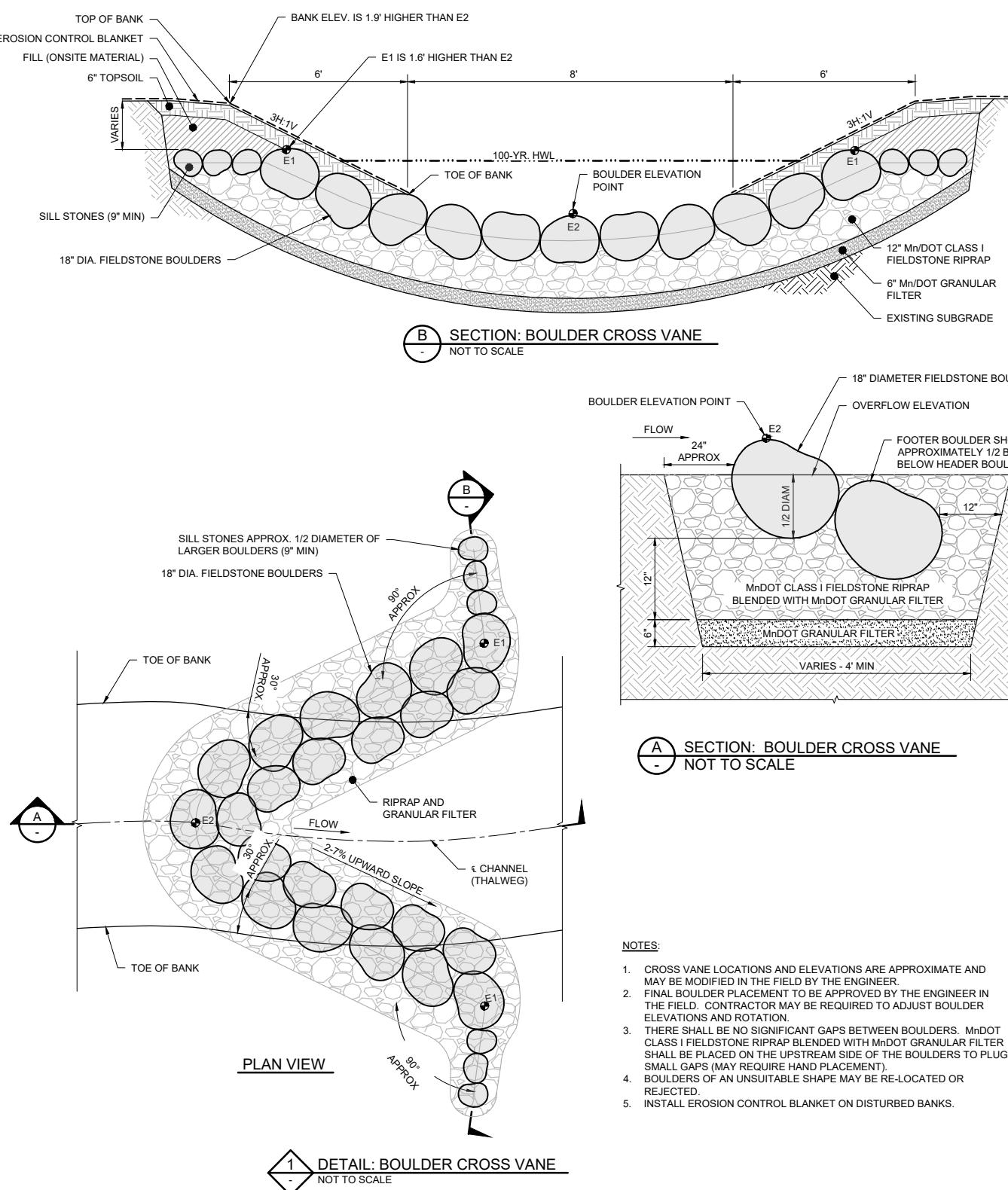
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BASSETT CREEK WATERSHED MANAGEMENT COMMISSION
GOLDEN VALLEY, MINNESOTA

BASSETT CREEK MAIN STEM RESTORATION - PHASE 1
GOLDEN VALLEY, MINNESOTA
STREAM STABILIZATION DETAILS

BARR PROJECT # 23272114.00
DWG # D-01
REV # B

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NOTES:

1. COARSE BACKFILL (MNDOT COARSE FILTER AGGREGATE) SHALL BE PLACED TO A THICKNESS EQUAL TO THE DEPTH OF THE HEADER AND FOOTER BOULDERS AND SHALL EXTEND OUT FORM THE VANE ARMS TO THE STREAM BANK.
2. THE VANE ARM OF THE BOULDER J-HOOK SHALL BE CONSTRUCTED FIRST, FOLLOWED BY THE HOOK.
3. BOULDER J-HOOK VANES SHALL BE BUILT TYPICALLY AS FOLLOWS:
 - A. OVER EXCAVATE STREAM BED TO A DEPTH EQUAL TO THE TOTAL THICKNESS OF THE HEADER AND FOOTER BOULDERS.
 - B. PLACE FOOTER BOULDERS OF THE VANE ARM. THERE SHALL BE NO GAPS BETWEEN BOULDERS.
 - C. PLACE COARSE BACKFILL BEHIND THE FOOTER BOULDERS.
 - D. INSTALL HEADER BOULDERS ON THE VANE ARM ON TOP OF AND SET SLIGHTLY BACK FROM THE FOOTER BOULDERS (SUCH THAT PART OF THE HEADER BOULDER IS RESTING ON THE COARSE BACKFILL). HEADER BOULDERS SHALL SPAN THE SEAMS OF THE FOOTER BOULDERS. THERE SHALL BE NO GAPS BETWEEN BOULDERS.
 - E. PLACE COARSE BACKFILL BEHIND HEADER BOULDERS ENSURING THAT ANY VOIDS BETWEEN THE BOULDERS ARE FILLED.
 - F. PLACE EACH BOULDER TO FORM THE HOOK BY INSTALLING A FOOTER BOULDER, THEN A HEADER BOULDER, GAPS AS WIDE AS 1/4 TO 1/3 THE BOULDER DIAMETER SHALL BE LEFT BETWEEN THE HOOK BOULDERS.

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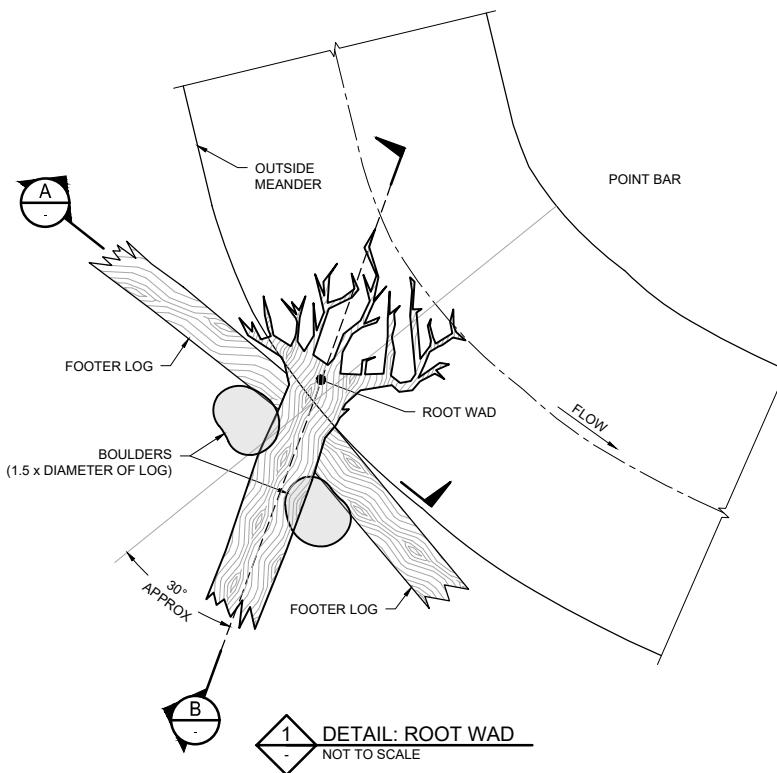
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BASSETT CREEK WATERSHED MANAGEMENT COMMISSION
GOLDEN VALLEY, MINNESOTA

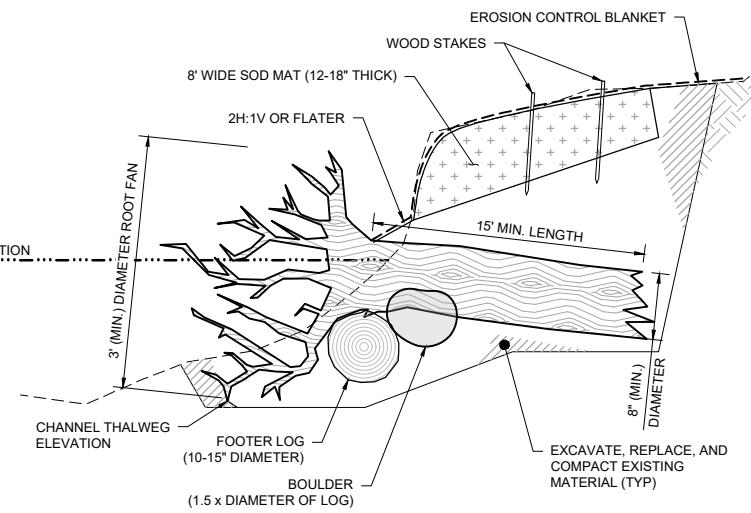
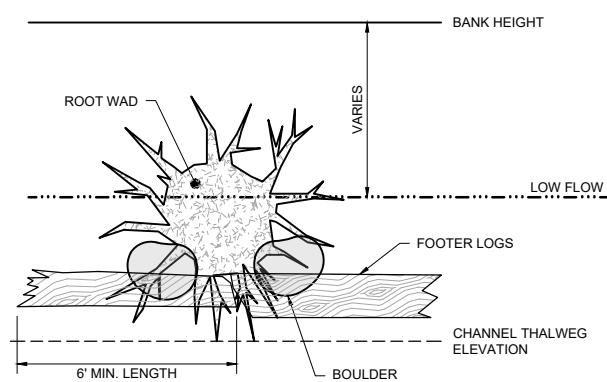
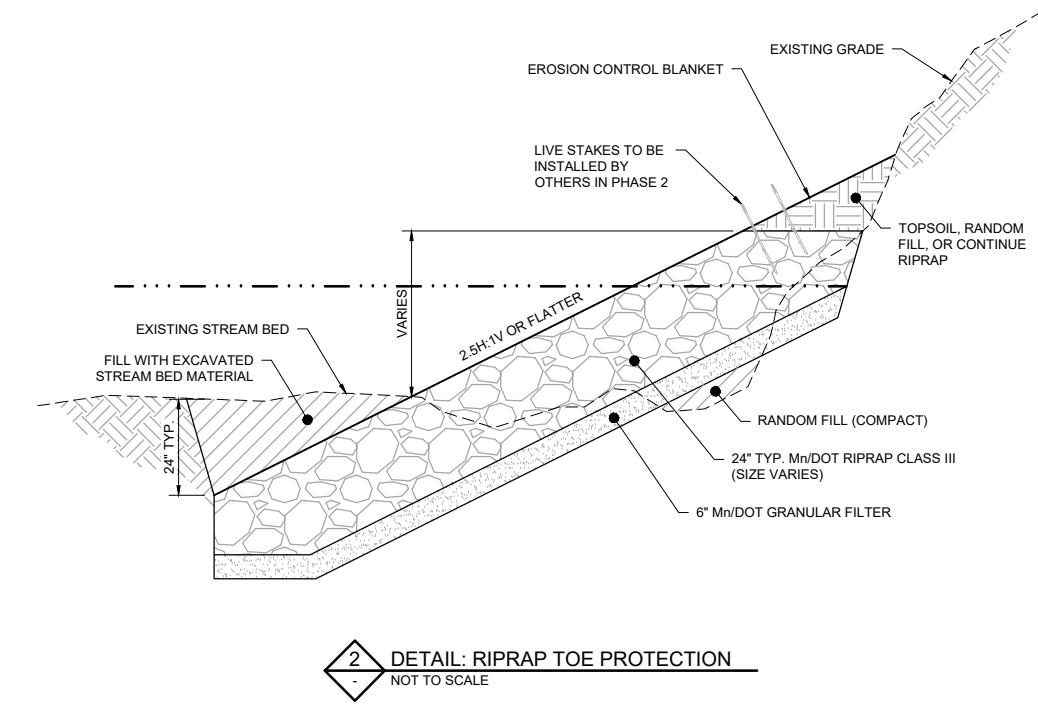
BASSETT CREEK MAIN STEM RESTORATION - PHASE 1
GOLDEN VALLEY, MINNESOTA
STREAM STABILIZATION DETAILS

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BARR PROJECT # 23272114.00
DWG # D-02
REV # B



GENERAL NOTES:

1. THE ENGINEER MUST BE NOTIFIED AT LEAST 3 DAYS PRIOR TO ROOT WAD INSTALLATION AND MUST BE ON SITE DURING INSTALLATION.
2. TO THE EXTENT POSSIBLE, ROOT WADS SHOULD BE CREATED FROM TREES THAT WILL BE REMOVED FROM THE SITES WITHIN THE PROJECT AREA.
3. CONSTRUCTION SHOULD PROCEED FROM DOWNSTREAM TO UPSTREAM IN AREAS WHERE MORE THAN ONE ROOT WAD WILL BE INSTALLED AS SHOWN ON THE DRAWINGS.
4. EXCAVATE A TRENCH ALONG THE STREAMBANK TOE FOR THE FOOTER LOGS.
5. PLACE THE FOOTER LOGS INTO THE TRENCH, WITH THE TOPS OF THE LOGS AT SPECIFIED ELEVATIONS FOR EACH SITE.
6. EXCAVATE A TRENCH IN WHICH TO PLACE THE ROOT WAD. IN SOFT SOILS IT MAY BE POSSIBLE TO DRIVE THE ROOT WAD INTO THE BANK WITH EQUIPMENT AFTER SHARPENING THE END TO A POINT. CARE SHALL BE TAKEN NOT TO DAMAGE THE ROOT WAD.
7. THE ROOT WAD MUST BE PLACED IN THE BANK SO THAT THE BACK OF THE ROOT FAN RESTS AGAINST THE FRONT OF THE FOOTER LOG.
8. THE ROOT FAN MUST BE PLACED SUCH THAT THE FAN IS ANGLED UPSTREAM AS SHOWN AND AS DIRECTED BY THE ENGINEER.
9. MOVING UPSTREAM, THE PROCESS IS REPEATED FOR EACH ADDITIONAL ROOT WAD AS SHOWN ON THE DRAWINGS.
10. LARGE BOULDERS ARE PLACED ON EITHER SIDE OF THE TRUNK OF EACH ROOTWAD.
11. PLACE BACK FILL OVER THE BOULDERS AS NECESSARY WITH A COARSE FILTER AGGREGATE (MN/DOT STANDARD SPECIFICATION 3142.2H) AND MATCH EXISTING GRADE WITH 6" OF TOPSOIL.
12. REVEGETATE AND STABILIZE WITH EROSION CONTROL BLANKET AS SPECIFIED FOR EACH SITE AS SHOWN IN THE DRAWINGS AND DIRECTED BY THE ENGINEER.
13. TRIM THE ROOTS THAT EXTEND ABOVE THE STREAM BANK TO A HEIGHT SLIGHTLY BELOW BANK HEIGHT AS DIRECTED BY THE ENGINEER.
14. USE SELECT ON-SITE TREES AS NOTED IN GENERAL NOTES.



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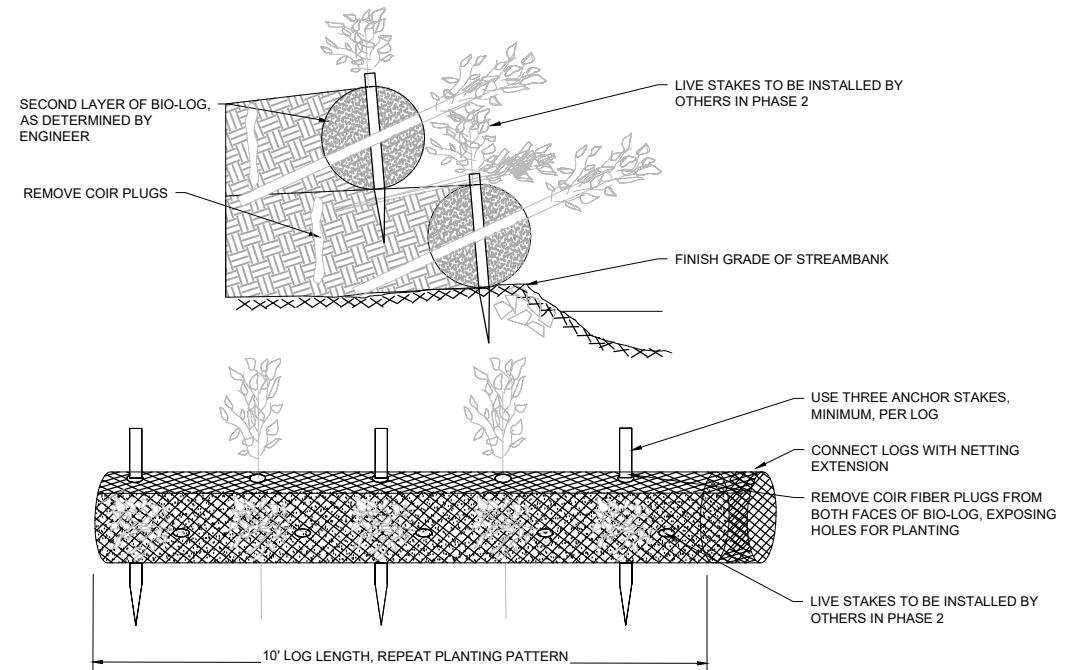
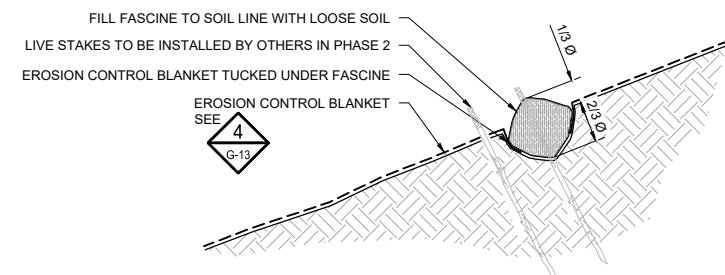
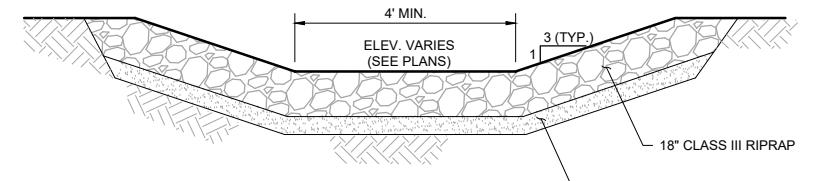
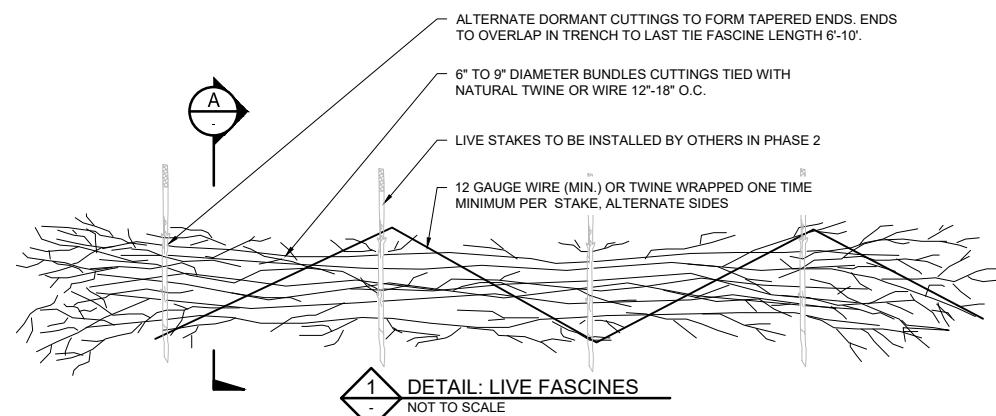
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MINNESOTA ENGINEERING FIRM
NUMBER 10104111545

BASSETT CREEK WATERSHED MANAGEMENT COMMISSION
GOLDEN VALLEY, MINNESOTA

BASSETT CREEK MAIN STEM RESTORATION - PHASE 1
GOLDEN VALLEY, MINNESOTA
STREAM STABILIZATION DETAILS

BARR PROJECT #	23272114.00
DWG #	D-03
REV #	B



GENERAL

1. THE ENGINEER MUST BE NOTIFIED AT LEAST 3 DAYS PRIOR TO FASCINES INSTALLATION AND MUST BE ON SITE DURING INSTALLATION.
2. THE DORMANT CUTTINGS FOR FASCINES SHOULD ONLY BE INSTALLED DURING THE DORMANT SEASON, AFTER LEAF DROP IN THE FALL AND BEFORE BUD BREAK IN THE SPRING.
3. AT LEAST 50% OF DORMANT CUTTINGS SHOULD BE HARVESTED FROM TREE AND SHRUB SPECIES CAPABLE OF PROPAGATING FROM CUTTINGS, INCLUDING WILLOW, DOGWOOD, COTTONWOOD, ELDERBERRY, AND ALDER.

PREPARATION

4. DORMANT CUTTINGS FOR FASCINE SHALL BE $\frac{1}{2}$ "-2" MINIMUM BUTT DIAMETER.
5. ASSEMBLE THE FASCINE BY LAYING OUT DORMANT CUTTINGS WITH THE CUT ENDS PLACED IN OPPOSITE DIRECTIONS IN A LONG SAUSAGE-LIKE BUNDLE.
6. TIE BUNDLES WITH TWINE AT 12"-18" INCREMENTS. FINISHED BUNDLES SHOULD BE 6"-9" IN DIAMETER.

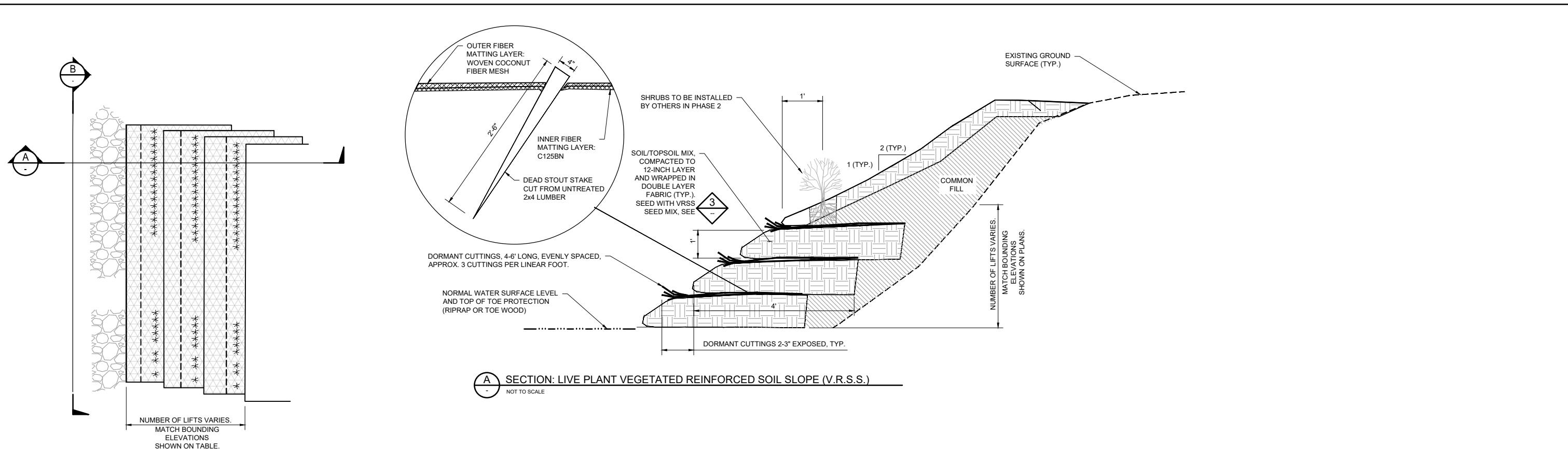
PLACEMENT

7. CONSTRUCT FASCINES FROM LOWEST TO HIGHEST ELEVATION.
8. INSTALL FASCINES PARALLEL TO CONTOURS, UNLESS SPECIFIED OTHERWISE.
9. EXCAVATE A HORIZONTAL TRENCH ALONG THE SLOPE. THE TRENCH SHOULD BE ROUGHLY 2/3 THE DIAMETER OF THE FASCINE.
10. DISPOSE EXCAVATED SOIL ON-SITE ABOVE ORDINARY HIGH WATER LINE.
11. INSTALL EROSION CONTROL BLANKET ACROSS THE TRENCH AND CUT ALONG THE CENTERLINE OF THE TRENCH. STAKE ENDS OF BLANKET IN THE BOTTOM OF THE TRENCH. 6-8" OF THE BLANKET SHOULD BE TUCKED UNDER THE FASCINE.
12. PLACE BUNDLES IN TRENCH, BACKFILL, COMPACT, AND WATER.

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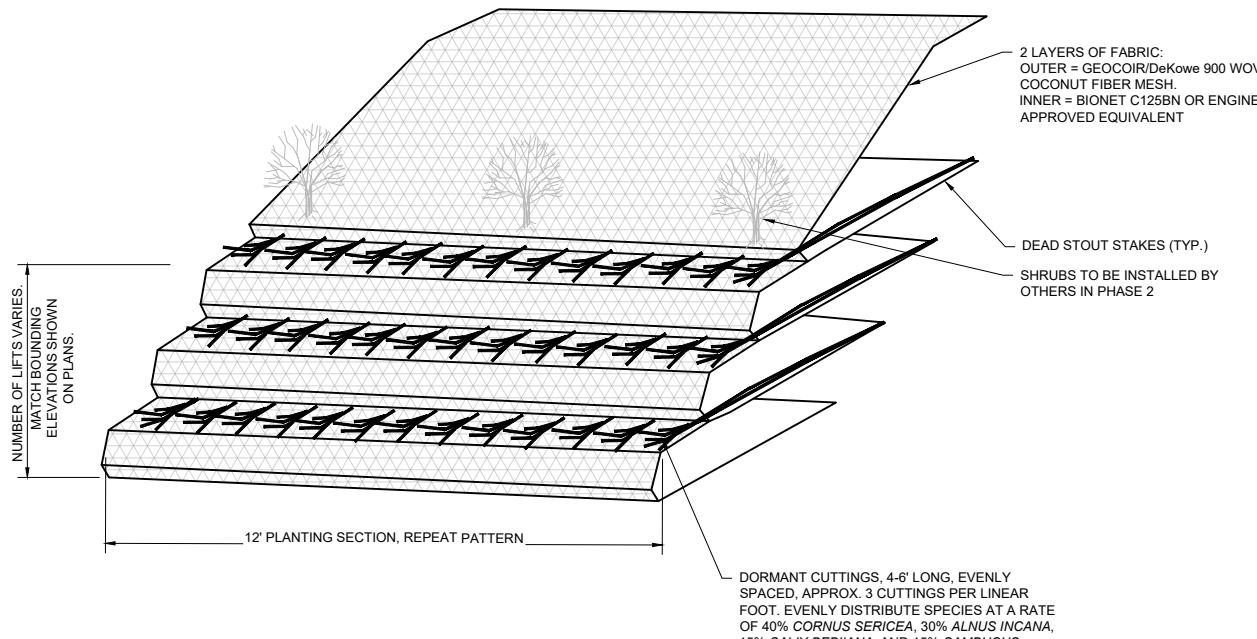
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A	EPF	JCO	JCO	06/20/2025	ISSUED FOR REVIEW
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1 DETAIL: LIVE PLANT VEGETATED REINFORCED SOIL SLOPE (V.R.S.S.)
NOT TO SCALE

NOTES:

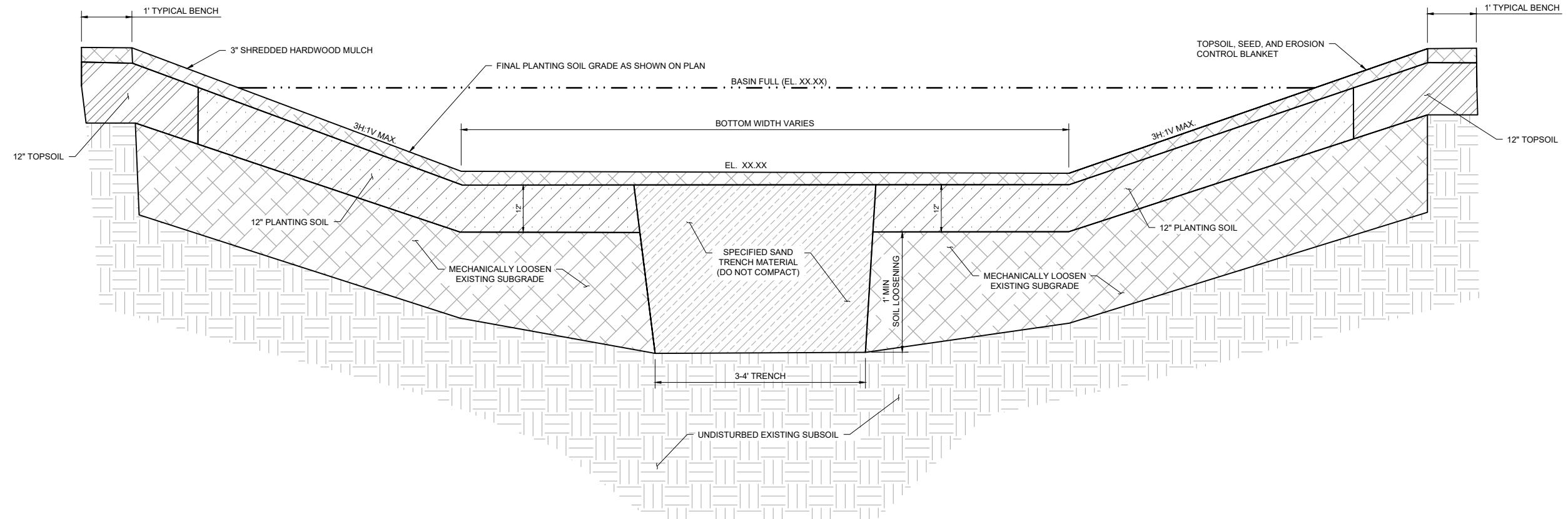
1. THE ENGINEER MUST BE NOTIFIED AT LEAST 3 DAYS PRIOR TO VRSS INSTALLATION AND MUST BE ON SITE DURING INSTALLATION.
2. SOAK DORMANT CUTTINGS FOR A MINIMUM OF 24 HOURS IN FLOWING WATER BEFORE PLANTING. SOAKING FOR 5-7 DAYS IS CONSIDERED IDEAL. THE DORMANT CUTTINGS SHOULD ONLY BE INSTALLED DURING THE DORMANT SEASON, AFTER LEAF DROP IN THE FALL AND BEFORE BUD BREAK IN THE SPRING. DORMANT CUTTINGS STORED IN COLD STORAGE WITH NO VISIBLE SIGN OF BUD BREAK MAY BE USED INTO LATE SPRING.
3. INSTALL RIPRAP AND GRANULAR FILTER AGGREGATE AS SPECIFIED IN SECTION 02375 AND AS SHOWN ON THE DRAWINGS.
4. EXCAVATE THE EXISTING STREAMBANK SLOPE SHOREWARD FROM AND LEVEL WITH THE TOP OF THE RIPRAP TO FORM A STABLE, UNDISTURBED SURFACE. A FLAT BENCH SHOULD BE CREATED FROM THE TOE OF THE STABLE CUT SLOPE TO THE TOE OF THE PROPOSED STREAM BANK RIPRAP.
5. DORMANT CUTTINGS ARE TO BE PLACED ON TOP OF THE RIPRAP EXCAVATED BENCH AT 3 BRANCHES PER LINEAR FOOT; THE BASAL END OF THE CUTTINGS SHOULD EXTEND AT LEAST 2 FOOT PAST THE BACK OF THE RIPRAP. NO MORE THAN 6 INCHES OF THE BUDDING END OF THE LIVE BRANCH SHOULD EXTEND PAST THE FRONT OF THE RIPRAP. COVER THE DORMANT CUTTINGS WITH TOPSOIL TO CREATE AN EVEN SURFACE FOR THE CONSTRUCTION OF THE FIRST SOIL LIFT.
6. LAY NATURAL FIBER MATTING ON BOTTOM OF THE BENCH, OVERLAPPING ADJACENT MATTING BY 1 FOOT. THE OUTER EXPOSED FIBER MATTING LAYER OF EACH SOIL LIFT SHALL BE GEOCOIR/DEKOWE 900 WOVEN COCONUT FIBER MESH, BIOD-MATTM 90, OR AN ENGINEER APPROVED EQUIVALENT.
7. THE INNER LAYER OF EACH SOIL LIFT SHALL BE BIONET C125BN OR AN ENGINEER APPROVED EQUIVALENT. LAY THE INNER LAYER OF BIONET ON TOP OF NATURAL FIBER MATTING OF EACH SOIL LIFT. FABRIC SHOULD BE INSTALLED SMOOTH WITH NO UNNECESSARY FOLDS OR WRINKLES. STAKE THE SHOREWARD END OF THE FIBER MATTING IN PLACE WITH WOODEN STAKES SPACED EVERY THREE FEET AS SHOWN ON THE DRAWINGS.
8. THE FIRST 6 TO 8 INCHES OF THE BOTTOM SOIL LIFT SHALL BE FILLED WITH GRAVEL AND SAND MATERIAL EXCAVATED FROM THE STREAM BED. THE TOP 6 TO 8 INCHES ON THE FRONT OF SURFACE LAYER SHOULD BE COMPRISED OF TOPSOIL MIX AS SHOWN ON THE DRAWINGS.
9. THE TOPSOIL LAYER SHALL BE SEEDED WITH THE VRSS SEED MIX AT 0.7 POUNDS PER 1,000 SQUARE FEET OF LIFT SURFACE AREA AS SHOWN ON THE DRAWINGS.
10. FOLD THE FIBER MATTING OVER THE FILL MATERIAL AND STAKE IN PLACE SO THE FABRIC IS TAUT AND SMOOTH WITH NO UNNECESSARY FOLDS OR WRINKLES. BACKFILL BEHIND THE BOTTOM SOIL LIFT WITH GRANULAR FILTER MATERIAL TO MEET THE EXISTING SLOPE AS SHOWN ON THE DRAWINGS.



Common Name	Scientific Name	PLS Rate (lb/acr)	% of Mix (by weight)
Hairy Wood Chess	Bromus pubescens	0.4	7.41%
Canada Blue Joint Grass	Calamagrostis canadensis	0.75	13.89%
Silky Wild Rye	Elymus villosus	1.5	27.78%
Fowl Manna Grass	Glyceria striata	0.7	12.96%
Fowl Bluegrass	Poa palustris	0.75	13.89%
Prairie Cord Grass	Spartina pectinata	1	18.52%
Grasses Subtotal		5.10	94%
Bristly Sedge	Carex comosa	0.1	1.85%
Field Oval Sedge	Carex molesta	0.2	3.70%
Sedges Subtotal		0.30	6%
Natives Subtotal		5.40	100.00%

2 VRSS SEED MIX
NOT TO SCALE

B SECTION: LIVE PLANT VEGETATED REINFORCED SOIL SLOPE (V.R.S.S.)
NOT TO SCALE



1 SECTION: RAINWATER GARDEN (PRELIMINARY DESIGN)
NOT TO SCALE

I HEREBY CERTIFY THAT THIS PLAN, SPECIFICATION, OR REPORT 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.					
PRINTED NAME: _____					
SIGNATURE: _____					
DATE: _____ LICENSE #: _____					

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B	EPF	ADB2	JCO	11/13/2025	ISSUED FOR REVIEW
A	EPF	JCO	JCO	06/20/2025	ISSUED FOR REVIEW
#	BY	CHK	APP	DATE	RELEASE/REVISION DESCRIPTION