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ANOKA COUNTY TRANSPORTATION DIVISION 1440 BUNKER LAKE BLVD NW

NOT VALID UNLESS SIGNED BY ANOKA COUNTY PERMIT NUMBER

ANDOVER, MN 55304 763-324-3176

highwaypermits@anokacountymn.gov

RIGHT OF WAY X

COMMERCIAL ACCESS

APPLICATION FOR PERMIT FOR INSTALLATION OF UTILITIES OR PLACING OBSTRUCTIONS ON THE COUNTY HIGHWAY SYSTEM ALL APPLICANTS MUST BE REGISTERED PRIOR TO PERMIT APPROVAL

APPLICANT NAME Davey Resource Group Inc.	CONTACT PERSON Damian Holynskyj
ADDRESS 1101 Haynes Street, Suit 211	CITY Raleigh, NC
PHONE NUMBER 732-778-5587	EMAIL Damian.Holynskyj@davey.com
COMPANY OR INDIVIDUAL PERFORMING WORK KBS Eart	hworks Inc
CONTACT PERSON Kory Strader	EMAIL kory@kbsearthworks.com
	PHONE NUMBER 336-362-0289
PERMIT WORK TO START 06/16/2025	
PERMIT WORK TO BE COMPLETED 11/28/2025	

DURATION OF JOB Work within County ROW should take 3-5 days.

ARE YOU BEING ASKED TO RELOCATE DUE TO A COUNTY PROJECT? No

ANOKA COUNTY PROJECT NUMBER

WORK SITE ADDRESS ~1,000 ft. west of 1291 181st St.

CITY Oak Grove

METHOD OF INSTALLATION/CONSTRUCTION Remove pavement, remove culvert, install new culvert, and repave.

NATURE OF WORK The purpose of the overall project is convert the existing agricultural fields into native wetlands to develop a wetland mitigation bank. To restore appropriate hydrology to the wetlands, the culvert beneath 181st St. needs to be replaced.

SURFACE TO BE DISTURBED

DITCH/BLVD



IS SIGNING AND STRIPING REQUIRED? NO

IF THE ROADWAY IS ENCROACHED, YOU MUST ATTACH A TRAFFIC CONTROL PLAN AND/OR REFERENCE THE MOST CURRENT VERSION OF THE MN TEMPORARY TRAFFIC CONTROL FIELD MANUAL (3+ DAYS REQUIRES PLANS TO BE SIGNED BY A LICENSED PE).

x BITUMINOUS

GRAVEL

CONCRETE

NONE

DEPTH FROM SURFACE 7 feet (60" minimum under county roads)

SIZE AND KIND OF PIPE/CABLE 30 inch RCP

NUMBER OF EXCAVATIONS 1

SIZE OF EXCAVATIONS 8' x 10' x 8' (Length, width, and depth)

LOCATION OF EXCAVATIONS ALL EXCAVATIONS ARE TO BE PROTECTED AT ALL TIMES AND THEN BACKFILLED WHEN UNATTENDED AND/OR OVERNIGHT Specific written descriptions of excavations - if shown on attached drawing, drawing shall be specific with depth and distance from centerline, curb, or other distinguishable location. Traffic control plans cannot be approved without specific excavation descriptions.

See plans for specifics, but excavation will be approximately 7 feet deep, 8 ft wide perpendicular to 181st St., crossing both lanes.

THIS PERMIT COVERS THE RIGHT OF WAY IN ANOKA COUNTY ONLY

ACTD reserves the right to make changes to these special conditions.



ANOKA COUNTY TRANSPORTATION DIVISION 1440 BUNKER LAKE BLVD NW ANDOVER, MN 55304 PERMIT PHONE: 763-324-3176 highwaypermits@anokacountymn.gov

GENERAL INFORMATION

One permit must be approved for each county road on which work will be performed prior to any work within the right of way by any utility/contractor. Emergency conditions which threaten the safety of the public and require immediate repair are exceptions to this rule. Under those circumstances, the utility/contractor is permitted to begin and/or complete the necessary repairs. The Anoka County Transportation Division (ACTD) shall be notified of emergency repairs as soon as feasible and a written permit is to be completed within two business days of occurrence.

A license-permit bond is generally required of the contractor as part of the registration process, the amount of which will be determined by the nature of the utility work.

A sketch or drawing shall accompany each permit application which will show the location of the proposed work/utility with reference to the county highway center line and right of way line. A complete set of plans is required for all sewer/water projects.

It shall be the responsibility of the applicant to determine which of the special conditions apply to each permit.

ACTD reserves the right to revoke any utility permit and halt work, if, upon inspection of any job site, the special conditions are not met, and/or a hazard exists for the applicant or public safety is threatened. The failure to comply with the terms and conditions of any applicable Federal, State, Regional, and local laws, rules and regulations, including any provision of Anoka County's Right-of-Way Ordinance shall be cause for immediate revocation of a permit.

The applicant shall notify ACTD immediately upon completion of project so that the ACTD can inspect the site to determine if restoration has been satisfactorily completed.

The undersigned hereby accepts the terms and conditions of this permit and the regulations of Anoka County, and agrees to fully comply therewith to the satisfaction of the ACTD. The county of Anoka, its officials, employees, and agents, shall be held harmless, by the applicant/permittee, from any demands, claims, lawsuits, or damages relating to the work described in this permit.

APPLICANT'S SIGNATURE

Danian Holynsky 2951649966A74FE DATE 5/8/2025

DATE

AUTHORIZATION OF PERMIT

In consideration of the applicant's agreement to comply in all respects with the regulations of the ACTD covering such operations, permission is hereby granted for the work to be done as described in the above application. Said work to be done in accordance with the general conditions listed above and the special conditions required as hereby stated. It is expressly understood that this permit is conditioned upon replacement or restoration of the county highway and its right of way to their original or to a satisfactory condition. It is further understood that this permit is issued subject to the approval of local city or township authorities having joint supervision over said street or highway.

APPROVED BY:

TITLE: Traffic Technician

NOT VALID UNLESS SIGNED BY ANOKA COUNTY

ANOKA COUNTY TRANSPORTATION DIVISION

1440 BUNKER LAKE BLVD NW

ANDOVER, MN 55304

PERMIT PHONE: 763-324-3176

highwaypermits@anokacountymn.gov

SPECIAL CONDITIONS

TRAFFIC CONTROL

cally Respo

1) Detours

Anoka Countv

MINNESOTA

- a) Detailed detour layouts shall be submitted to the traffic engineer for approval.
- b) No detours shall be permitted without prior approval of the Anoka county traffic engineer.
- c) A ten day notice must be given prior to the installation of any detour.
- d) It shall be the responsibility of the applicant to notify Anoka county central communications, local government bodies, and any affected bus companies ten days prior to any road closures/detours.
- e) Immediately upon completion of work and/or detours, all posts, barricades, and signs shall be removed from the right of way.

2) Traffic control devices

a) All traffic control devices, barricades, flashers, etc., shall be furnished by the applicant and shall be in accordance with the most recent edition of the Minnesota manual on uniform traffic control devices and temporary traffic control zone layouts – field manual of the same manual.

CONSTRUCTION REQUIREMENTS

- 1) Open cutting of bituminous or concrete surfaced roads will be allowed only at the discretion of the county engineer.
- 2) Neither supplies nor excavation materials shall be placed on the bituminous or concrete surface at any time.
- 3) No trenches will be allowed to remain open overnight.
- 4) Materials removed from the trench shall be used as backfill insofar as they are suitable. All backfill material shall conform to MNDOT specifications for compaction. The use of heavy equipment on top of trench, slapping with backhoe bucket and/or back casting to achieve compaction is prohibited. Any additional material required to back fill to the original grade shall be furnished by the applicant at no expense to the ACTD. All the base and surface courses damaged during construction operations shall be restored to a condition equal to or better than before operations began. The applicant shall be responsible for and restore any settlement.
- 5) All culverts, ditches, shoulders, and backslopes shall be restored to their original condition unless otherwise directed by the ACTD. Shoulders which have been previously constructed or reconstructed with special materials shall be replaced in kind. Restoration of signs, guardrails, guard posts, etc., are the sole responsibility of the applicant and shall be restored to their original condition.
- 6) All roadway maintenance required within the limits of the utility project that is related to the applicant's activities shall be the sole responsibility of the applicant for one year after completion of the project. Upon completion of the restoration work, the applicant shall request a final inspection by the ACTD. The ACTD's approved completion date shall be the starting date of the applicant's one-year responsibility.

HORIZONTAL BORING AND JACKING

- 1) All hard surface roadways shall be jacked or bored.
- 2) All crossings of Anoka County maintained roadbeds, shall be made by boring inside a casing or carrier pipe, or by jacking unless otherwise directed by the Anoka County Engineer. The auger shall lead the casing or carrier pipe by at least six inches whenever possible and never lead the carrier pipe by more than one inch.
- 3) The use of pneumatic devices to facilitate the roadbed crossings will be allowed in most cases with prior approval. In the event approval is not granted and applicant uses a pneumatic device to cross a roadbed and encounters an obstruction and/or unstable subbase material which makes forward or reverse motion of pneumatic device impossible, said pneumatic device then becomes part of the roadway subbase and permission to excavate to retrieve device will not be granted.
- 4) If a pneumatic device is used for the work permitted herein, the installation must be kept to a minimum of four feet below the surface of the roadway if the pneumatic device is less than two inches in diameter, and a minimum of five feet below the surface of the roadway if the pneumatic device is two inches in diameter or larger.

BITUMINOUS RESTORATION

- 1) The locations and dimensions of all openings to be made in the bituminous surface shall be approved by the ACTD prior to any cutting or any surface opening operations.
- 2) All openings in bituminous surfaces shall be cut in a straight line with the sides smooth and vertical. No ragged edges will be permitted. Cutting shall be done with a concrete saw.
- 3) All necessary dust control operations shall be carried out by the applicant at no expense to Anoka County.
- 4) The minimum requirement for subgrade replacement shall be the upper twelve inches of material and shall meet MNDOT specifications for class five placed in six inch layers compacted to one hundred percent of optimum density.
- 5) All manhole casings, gate valves, and other utility structures shall be set one quarter inch below the top of the finished surface.
- 6) Bituminous tack coat materials and application thereof shall conform to MNDOT specification 2357.
- 7) All bituminous surfacing shall be replaced as soon as practicable after the base construction. All bituminous surfacing shall be machine laid. Any exceptions must be approved by the ACTD. Bituminous surfacing shall be replaced to original pavement depth or to a minimum of six inches of bituminous mixture (2360), whichever is greater. Bituminous mixtures must be placed in lifts not exceeding three inches in thickness for base and binder courses and not exceeding two inches for the wear course.
- 8) All surface restoration regardless of size shall conform to existing grades.
- 9) Any unnecessary or negligent damage to bituminous surface in conjunction with the installation and/or repair of a utility shall be cut out and replaced in kind as directed by the ACTD.

Anoka County

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ANOKA COUNTY TRANSPORTATION DIVISION

1440 BUNKER LAKE BLVD NW

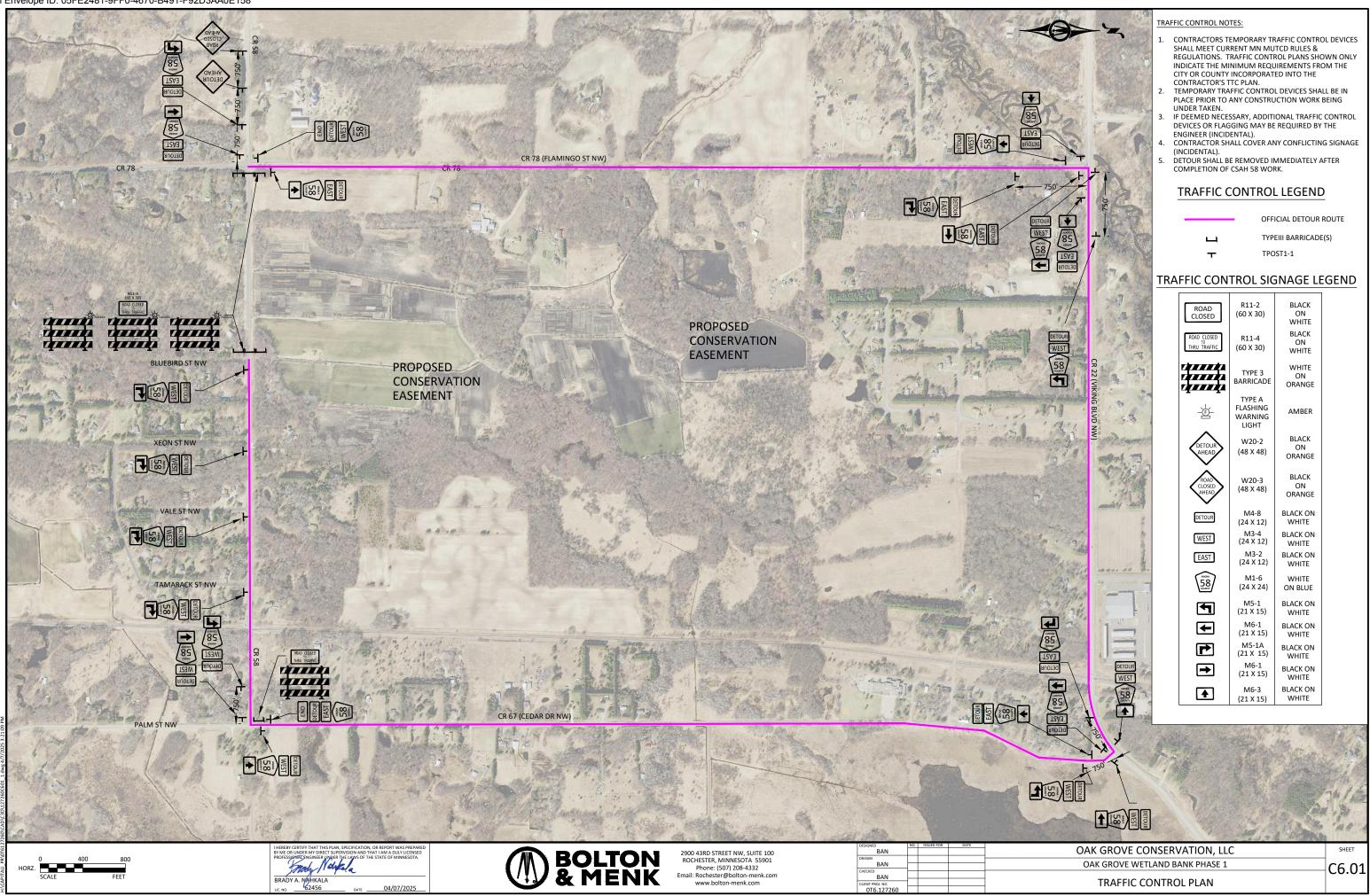
ANDOVER, MN 55304

PERMIT PHONE: 763-324-3176

highwaypermits@anokacountymn.gov

CO	NCRETE RESTORATION
1)	Curb and gutter, sidewalks, and driveways shall be restored in accordance with MNDOT specifications 2531 and 2521.
UTI	ILITY LINES
1) 2)	There shall be only a single pole line on the county right of way on either side of the center line thereof. Exact locations of longitudinal installations on county highways shall be located as directed by the ACTD.
SEC	CTION CORNER MONUMENTS
1) 2) 3)	Utility locations shall not interfere with the location of any section, quarter, witness, or right of way monuments. For assistance in locations, contact the Anoka County Surveyor's Office. The applicant shall be responsible for replacement of any existing property irons disturbed during construction. The applicant shall notify the Anoka County Surveyor's Office three working days in advance of any anticipated disturbance of any section, quarter, witness, or right of way monuments.
4)	Any monument disturbed during the course of construction, shall be reset by the Anoka County Surveyor's Office at the expense of the applicant.
ATT	ACHING TO BRIDGES/STRUCTURES
1)	No utility is permitted to be hung from, or otherwise attached to, any bridge or structure without having detailed plans approved by the Anoka County Engineer. These plans are to show approaches to the structure, method of installation, type, and dimension of housing for the utility.
ADI	DITIONAL PROVISIONS
1)	 All subcontractors, installers, and crew shall possess a physical or electronic copy of all documents in relation to the approved permit prior to the commencement of work and be kept on site. This includes, but it not limited to the following: a) Approved permit b) Any/all traffic control plans and/or layouts
2)	Shall notify Anoka County Permits at 763-324-3176 or highwaypermits@anokacountymn.gov
_,	a) At least 36 hours prior to the commencement of work
	b) With time frame of proposed of work
	c) Anticipated traffic control
	d) When work is complete - including restorations - to request a final inspection
3)	No work during inclement weather or when plows are out in any capacity
4) 5)	All traffic control shall be in accordance with the most current version of the MnDOT Temporary Traffic Control Field Manual
5)	For staking of right-of way or proposed infrastructure, contact Chris Osterhus at 763-324-3189 a minimum of 48 hours prior to the commencement of work.
ΙΝΙΤ	

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OAK GROVE WETLAND BANK PHASE 1

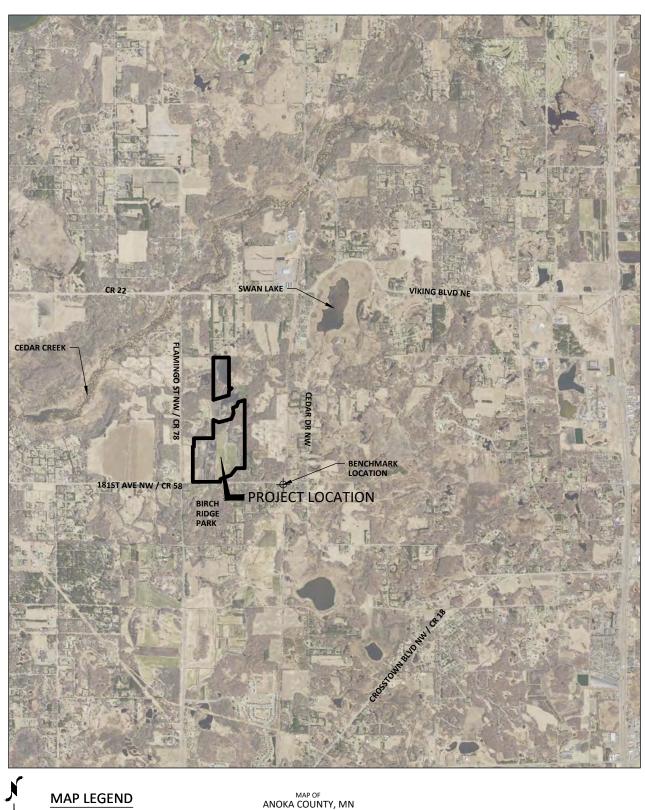
VEGETATION ESTABLISHMENT & WETLAND RESTORATION

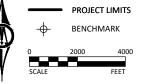
ANOKA COUNTY, MINNESOTA

SHEET NUMBER	SHEET TITLE
G0.01	TITLE SHEET
C1.01 - C1.03	CONSTRUCTION DETAILS & SPECIFICATIONS
C2.01	EXISTING CONDITIONS & REMOVAL PLAN
C3.01	PROPOSED SITE PLAN
C3.02	PROPOSED STORM SEWER PLAN AND PROFILE
C3.03	PROPOSED SWALE PLAN AND PROFILE
C3.04	SOUTH OUTLET SPILLWAY PLAN AND PROFILE
C5.01 - C5.02	PROPOSED SEEDING PLAN
C6.01	TRAFFIC CONTROL PLAN
C9.01	CROSS SECTIONS
THIS PLAN SET CON	TAINS <u>13</u> SHEETS.

RESOURCE LIST	
CITY OF OAK GROVE	ANOKA COUNTY
CITY HALL: 19900 NIGHTINGALE STREET NW OAK GROVE, MN 55011	COUNTY ENGINEER: JOE MACPHERSON
CITY ADMINISTRATOR: LOREN WICKHAM	ASSISTANT COUNTY ENGINEER: JERRY AUGE
MAYOR:	UTILITIES
WESTON ROLF	GAS
CITY COUNCIL MEMBERS:	
PAUL TRADEWELL	
MIKE WYLIE ANGIE BRAY JOHNSON	
JOHN WEST	TELEPHONE
PROJECT ENGINEER:	
(CONSULTANT)	
BRADY NAHKALA, P.E.	
BOLTON & MENK, INC. 2900 43RD ST NW	
SUITE 100	
ROCHESTER, MN 55901	CABLE
507.208.4332	
PUBLIC WORKS DIRECTOR:	
MATT ANDERSON	
PROJECT TECHNICIAN/WETLAND SPECIALIST:	ELECTRIC
(CONSULTANT) DANIEL DONAYRE	
507.625.4171 EXT 2646	
507.025.4171 EXT 2040	

IGNED	NO.	ISSUED FOR	DATE	
BAN				
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NT PROJ. NO.	1			
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NOTE:

EXISTING UTILITY INFORMATION ON THIS PLAN HAS BEEN PROVIDED BY THE OWNER. THE CONTRACTOR SHALL FIELD VERIFY EXACT LOCATIONS OF ALL EXISTING UTILITIES PRIOR TO COMMENCING CONSTRUCTION AS REQUIRED BY STATE LAW. NOTIFY GOPHER STATE ONE CALL 1-800-252-1166 OR 651-454-0002

REFERENCE MNDOT 2020 SPECIFICATIONS UNLESS OTHERWISE NOTED WITHIN

RADY A. NAHKALA



2900 43RD STREET NW, SUITE 100 ROCHESTER, MINNESOTA 55901 Phone: (507) 208-4332 Email: Rochester@bolton-menk.com www.bolton-menk.com

CONSTRUCTION PLANS FOR

APRIL 2025

	STATEMENT OF ESTIMATED QUANTITES			
ITEM #	ITEM	NOTES	UNIT	QUANTITY
1	MOBILIZATION		LS	1
2	TRAFFIC CONTROL	(3)	LS	1
3	TOPSOIL REMOVAL, SALVAGE, & SPREADING	(2)	CY	12,500
4	COMMON EXCAVATION	(1)(2)	CY	32,350
5	REMOVE METAL APRON		EA	4
6	REMOVE BITUMINOUS PAVEMENT		SY	150
7	REMOVE MISCELLANEOUS DEBRIS		LS	1
8	SAWING BIT PAVEMENT (FULL DEPTH)		LF	58
9	AGGREGATE BASE (LV) CLASS 5		SY	150
10	SELECT GRANULAR EMBANKMENT		CY	110
11	BITUMINOUS MATERIAL FOR TACK COAT		GAL	21
12	TYPE SP 9.5 WEARING COURSE MIXTURE (4;C)		SY	150
13	TYPE SP 9.5 NON WEAR COURSE MIXTURE (4;B)		SY	150
14	GENERIC FILL	(1)(2)	CY	32,350
15	CULVERT/TILE REMOVAL		LF	279
16	INLET/STRUCTURE REMOVAL		EA	2
17	GEOTEXTILE FILTER		SY	230
18	RIVER GRAVEL / CLASS I RIPRAP		CY	32
19	BOULDER		EA	176
20	RANDOM RIPRAP, CLASS II		CY	50
21	RANDOM RIPRAP, CLASS III		CY	35
22	30" RCP PIPE SEWER CL III		LF	81
23	30" RC PIPE APRON		EA	2
24	TRASH GUARD FOR 30" PIPE APRON		EA	2
25	POST MARKER (CULVERT ENDS)		EA	2
26	SEEDING - BROADCAST		AC	29.5
27	SEEDING - DRILLED		AC	63.1
28	STATE SEED MIX 35-241		LBS	121
29	WET MEADOW SEED MIX		LBS	205
30	EMERGENT WETLAND SEED MIX		LBS	140

ESTIMATED QUANTITY INCLUDES THE TOPSOIL REMOVAL, SALVAGE,& SPREADING QUANTITY. (1) VOLUMES ESTIMATED FROM LIMITED SURVEY DATA. BORROW AREAS WITHIN THE EASEMENT BOUNDARY SHOULD BE USED TO CREATE A BALANCED SITE. (2)

CONTRACTOR TO COORDINATE TRAFFIC CONTROL WITH ANOKA COUNTY HIGHWAY DEPARTMENT. (3)

 BM=904.604 MnDOT GEODETIC MARKER: ANOKA BM 30 METAL ROD (NAVD 88) 	HORIZONTAL: ANOKA COUNTY COORDINATE SYSTEM, NAD83 (2011)		D DRAWING RMATION
OAK GR	OVE CONSERVATION, LLC		SHEET
OAK GR	AK GROVE WETLAND BANK PHASE 1		G0.01
	TITLE SHEET		00.01

CLEARING AND GRUBBING

CONSTRUCTION REQUIREMENTS

MnDOT 2101 will apply to this Section. Tree clearing will be limited to November 1 to March 31, inclusive. Tree clearing seasonal restrictions do not apply to grubbing. Before tree trimming to remove overhanging branches, the Contractor shall inspect the branches to be trimmed for occupied bird nests and/or hollows that may be used by birds or bats. If absent, tree trimming will be completed without time restrictions.

GENERAL REMOVALS

DESCRIPTION

This section covers the furnishing of all labor, materials, tools, equipment, and performances of all work and services necessary or incidental to the removal of pavement and miscellaneous structures as indicated on the drawings or as specified

CONSTRUCTION REQUIREMENTS

Remove existing bituminous, fences, agricultural equipment, debris, and other specified items where shown on the plans and/or required for the construction of the project. Saw cut bituminous and concrete surfaces before excavation, to produce a clean-cut breakage joint. Dispose of all concrete and bituminous removal items, rubbish, and debris outside of the construction zone. It will be the Contractor's responsibility to secure all required permits and pay all fees associated with the disposal of the material and secure the disposal site. The Contractor shall take full responsibility to protect structures or other surface improvements from damage that are not to be removed. If damage to these facilities occurs due to the construction of the project, the Contractor shall replace or repair them at their expense. The Owner will designate which existing items removed as part of the construction, are to be salvaged. All other items will be disposed of by the Contractor. All existing storm sewer pipes being will be considered as debris and removed during the construction process.

AGGREGATE BASE

DESCRIPTION

This section covers the furnishing of all labor, materials, tools, equipment and performances of all work and services necessary or incidental to construct the aggregate base course as indicated on the drawings or as specified herein

MATERIALS

The material to be used shall conform to MnDOT Specification 2211 for Aggregate Base Class 5 modified so that the percent passing the No. 200 sieve shall be 5 to 10 percent.

CONSTRUCTION REQUIREMENTS

At the end of each day the Contractor shall eliminate surface indentations, including those caused by sheeps foot rollers and tractor cletes, and roll the surface with a steel wheel or rubber-tired roller. The depth and class of aggregate base to be constructed shall be as shown on the plans. Aggregate base construction shall take place only after the street subgrade condition and grade has been examined by the Owner. Pneumatic rollers are required for compaction on all aggregate base courses with recycled bituminous unless otherwise approved by the Owner. All aggregate base courses shall be compacted using the Quality Compaction Method. The compacted aggregate base shall be test rolled using a fully loaded aggregate truck (tandem) in a pattern approved by the Owner. The stability of the compacted base shall be considered adequate when the surface shows less than 1.0-inch of yielding or rutting after one pass, or as otherwise approved by the Owner. The test rolling of the compacted aggregate base using a fully loaded aggregate truck (tandem) shall be incidental.

FLEXIBLE PAVEMENT

DESCRIPTION

This section covers the furnishing of all labor, materials, tools, equipment and performances of all work and services necessary or incidental to the construction of plant-mixed bituminous surfacing utilizing the MnDOT Gyratory Design Specification (2360) as indicated on the plans or as specified herein. MnDOT 2360, 2357 and 3139 shall apply, except as modified herein.

MATERIALS

The bituminous material for tack coat will be limited to emulsified asphalt SS-1 and SS-1H (Anionic) and CSS-1 and CSS-1h (Cationic). Medium cure cutback asphalt (MC-250) may be used during the early and late construction season when it is anticipated the air temperature may drop below 32 degrees Fahrenheit. Cutback asphalt shall be used only when approved by the Owner.

CONSTRUCTION REQUIREMENTS

The tack coat shall not be applied when the road surface or weather conditions are unsuitable as determined by the Owner. At the time of applying bituminous tack coat material, the road surface shall be dry and clean and all necessary repairs or reconditioning work shall have been completed as provided for in the Contract and approved by the Owner. The Owner shall approve the time and rate of application. Only a MnDOT certified asphalt emulsion supplier is allowed to dilute the emulsion. When diluted, the supplier shall provide asphalt emulsion diluted 1-part emulsion to 1-part water. Dilution of asphalt emulsion in the field is not allowed. The Owner may waive the tack coat requirement when multiple lifts are paved on the same day. The temperature of the bituminous material at the time of application shall be approved by the Owner.

The Contractor is required to use the self-propelled pneumatic tire roller as an intermediate roller on the wearing courses. Compaction of non-wear and binder course bituminous mixtures shall be by the Maximum Density Method. Compaction of wear course bituminous mixtures shall be by the Ordinary Compaction Method.

PROPOSED EMBANKMENT

REMOVING, SALVAGING AND SPREADING TOPSOIL

The work shall consist of the removal of topsoil from borrow, embankment and spillway area(s), stockpiling the suitable topsoil material and then spreading it back on those areas as directed after construction is completed. Suitable topsoil material shall consist of friable surface soil reasonably free of grass, roots, weeds, sticks, stones or other foreign materials.

Spreading shall not be done when the ground or topsoil is frozen or excessively wet. Surfaces to be covered shall be lightly scarified just prior to the spreading operation. Upon completing construction of the embankment and spillway, blend topsoil against the borrow, embankment and spillway area and trim to blend with the area or slopes. Respread topsoil evenly over the entire crest and side slopes of the embankment, spillway and/or the surface of borrow area(s) in a 4-6 inch layer or as otherwise directed. Where the borrow site is outside the bank boundary area shown on the plan, the topsoil shall be reestablished at its original thickness. The surface of the topsoil shall be finished to a reasonably smooth surface free of low spots, humps, or large stones and ready for seed.

The Topsoil Removal, Salvage & Spreading quantity in borrow areas is estimated using an average depth of borrow of one foot. The contractor shall remove and salvage all friable topsoil material over the borrow area. All slopes in the topsoil borrow sites shall be graded to drain toward the wetland and shall have a maximum slope of 10:1 (H:V)

EXCAVATION

This work shall include all labor, materials, and equipment required for the excavation, hauling and spreading of materials as required by the drawings or as staked. The work includes the control of water during excavation, the shaping of slopes to the lines and grades shown and the disposal of unsuitable materials.

To the extent they are needed, suitable materials from the specified excavations may be used in the construction of permanent earthfill. Borrow area(s) shall be excavated and finally dressed in a manner to eliminate steep or unstable side slopes or other hazardous or unsightly conditions

MATERIAL REQUIREMENTS - DITCH PLUG AND DITCH FILL

All fill materials for the embankment construction shall be obtained from required excavations and designated borrow areas. Under no circumstances shall frozen materials be used in the construction of earthfills or embankments. Trees and brush shall not be used to fill ditches or to construct ditch plugs. Ditches shall be filled using on site soils.

The ditch plugs shall be constructed of compacted, relatively impermeable material consisting of on site soils. The proposed ditch plugs shall be capped with six inches of topsoil, to allow for vegetation establishment on the embankment. The top surfaces of ditch pluas shall include enough overbuild during construction to account for 20% settlement of the placed

fill height. A crown or cross-slope of approximately 5 percent shall be maintained to ensure effective drainage. The moisture content of the fill material shall be maintained within the limits required to: a) allow the soil to form a ball that does not readily separate when kneaded in the hand; b) prevent adherence of the fill material to the equipment treads or tracks; PLACEMENT OF RIPRAP (MnDOT 2511) c) prevent rutting by equipment, and; d) ensure that blending of the soil results in a reasonably homogenous mass. Material that is too wet when deposited on the fill shall either be removed or dried to the specified moisture content prior to compaction. If the top surface of the preceding laver of compacted fill or a foundation or abutment surface in the zone of contact with the fill becomes too dry to permit suitable bond, it shall either be removed or scarified and moistened by sprinkling to an acceptable moisture content prior to placement of the next layer of fill.

DITCH FILL

Fill shall not be placed until the required excavation and foundation preparations have been completed and inspected and approved by the Project Technician. Fill material shall be placed in approximately horizontal layers and compacted via two passes by a tracked piece of equipment across the entire fill surface of each lift. Materials placed by dumping in piles or windrows shall be spread uniformly. Each layer shall be graded, shaped, and compacted meeting Mn/DOT Specification 2106-3F2. The loose lift thickness, before compaction, should range between six and twelve inches. If the surface of any layer becomes too hard and smooth for a proper bond with the succeeding layer, it shall be scarified parallel to the axis of the fill to a DRAINAGE PIPE depth of not less than 4 inches before the next layer is placed.

DITCH PLUGS

Fill shall not be placed until the required excavation and foundation preparations have been completed and inspected and approved by the Project Technician. Fill material shall be placed in approximately horizontal layers and compacted via two passes by a tracked piece of equipment across the entire fill surface of each lift. Materials placed by dumping in piles or windrows shall be spread uniformly. The loose lift thickness, before compaction, should range between four and six inches. If the surface of any layer becomes too hard and smooth for a proper bond with the succeeding layer, it shall be scarified parallel to the axis of the fill to a depth of not less than 4 inches before the next laver is placed.

RIPRAP & GEOTEXTILE

DESCRIPTION

The work shall consist of furnishing and placing loose rock riprap and associated geotextile filter materials at the locations shown on the drawing, as a protective covering at inlets and outlets where the soil is susceptible to erosion

MATERIALS REQUIREMENTS RANDOM RIPRAP (MnDOT 3601)

Unless otherwise stated, quarry stone (angular crushed bedrock) rock riprap shall be used. Stones shall be generally round or cubiform in shape. Each individual stone shall have at least one fractured fac. Stone shall be free of soil and/or other debris prior to placement. Stone shall contain less than 10 percent of the following by weight:

- 1.1. Stones with defects that could cause rapid or excessive deterioration or degradation during service, such as cracks or seams
- Stones with a width or thickness less than 30 percent of the length.

For carbonate quarry/bedrock material used in total or inpart for riprap, the portion of the insoluble residue passing the #200 sieve is no greater than 10 percent. Use 100% virgin materials for riprap and granular filter. The approximate gradation (size) of stones for loose rock riprap shall meet MnDOT Specification 3601 for specified class. The stones shall be reasonably well graded within the percentages shown. The Contractor shall provide to the Project Technician documentation that the proposed material meets the gradation requirements, as specified.

GEOTEXTILE FILTER (MnDOT 3733)

Geotextiles shall meet or exceed the requirements of MnDOT Specification 3733. Unless otherwise specified, the Contractor shall furnish and install the geotextile to the guantities shown. The Contractor shall provide to the Project Technician manufacturer's certification that the geotextile used has minimum average roll values, which meet or exceed the requirements specified herein

The geotextile shall be a non-woven fabric of polymeric filaments or yarns such as polypropylene, polyethylene, polyester, or polyamide formed into a stable network such that the filaments/varns retain dimensional stability relative to each other. Geotextile shall be resistant to biological and chemical environments normally found in soils, and that is free of chemical reatment or coating that may significantly reduce porosity or permeabilit

Geotextile shall be uniform in texture thickness and appearance and be free of defects flaws cuts punctures or tears that would significantly alter its strength or filtering properties. The geotextile shall conform to the physical requirements specified

Deliver rolls of geotextile with an opaque plastic covering to protect the material from ultraviolet rays or contamination with mud, dirt, dust, or debris. Provide rolled geotextile labeled on the outside wrap and inside the core in accordance with ASTM D 4873 and as follows: Manufacturer, Product Name, and Roll number

Geotextile shall not be left exposed to the sun for a period in excess of 7 days without being covered by the appropriate protective soil or rock layer. Replace contaminated geotextile or geotextile exposed to the sun for more than seven days, as directed by the engineer

I HEREBY CERTIFY THAT THIS PLAN, SPECIFICATIO BY ME OR UNDER MY DIRECT SUPERVISION AND PROFESSIONATENGINEER UNDER THE LAWS OF	THAT I AM A DULY LICENSED	
BRADY A. NAHKALA		
LIC. NO62456 DATE	04/07/2025	

Provide geotextile meeting the requirements of Table 3733-1.

CONSTRUCTION REQUIREMENTS SUBGRADE SURFACE PREPARATION

The surface on which the geotextile and rock riprap are to be placed shall be cut or filled to the lines and grades as shown on the drawings. The surface shall be reasonably smooth, free of holes, depressions, mud, running water, stumps, large rocks, or other debris that would tend to tear or puncture the fabric. Compact loose foundation material before placing the riprap or filter naterial. Rock riprap and the geotextile filter materials shall not be placed until the foundation preparation is completed and the subgrade surfaces have been inspected and approved.

PLACEMENT OF GEOTEXTILE (MnDOT 2511.3B.2)

Geotextile shall be used beneath all rock riprap. The geotextile shall be uniformly placed on the approved prepared subgrade surface at the locations and in accordance with the details shown on the drawings and as specified

Place the fabric with the longest dimension parallel to the direction of water flow. If using fabric that is not seamed, overlap splices and joints at least 18 inches, except overlap splices and joints placed under water 36 inches. Provide shingled joint laps in the flow direction and from top to bottom of a slope to direct water flow over the joint without undermining the geotextil filter. The Contractor may sew multiple fabric pieces together, as specified in 3733, "Geotextiles," in lieu of joint overlapping. Bury the upgrade edges of the fabric a minimum of 6 inches to direct water flow over the fabric and prevent undermining. If not seamed, place washed steel pins, edge stakes, stones, or other material at locations and in quantities as approved by the engineer, to prevent movement of the geotextile during placement of riprap.

The rock riprap shall be placed on the geotextile material in such a manner that the smaller size material remains evenly Header and footer boulders shall be a minimum 2' x 4' x 12" and weigh no less than 1200 lbs. Sill rocks should be no less than distributed throughout. The maximum drop height of rock riprap onto the geotextile shall be 1-foot. Do not dump stones at the top of the slope and roll stone down the slope. When placing riprap, start at the lowest elevations and work upwards. Do not 12" in diameter. Do not plant vegetation within the in stream crossing. operate construction equipment directly on top of placed riprap.

Rock riprap shall be carefully placed by hand or machine on the surfaces to a depth equal to twice the d50 of the specified riprap, unless specified otherwise. Stones shall be securely bedded with individual stones firmly in contact one to another.

The boulders shall be placed flat on the geotextile material. Do not dump boulders at the top of the slope and roll stone down Sufficient handwork shall be performed to produce a neat and uniform surface. the slope. When placing boulders, start at the lowest elevations and work upwards. Do not operate construction equipment The in-place rock riprap shall be well graded. If necessary, individual stones shall be rearranged by hand to produce a directly on top of placed boulders. Boulders shall be carefully placed by hand or machine on the surfaces. Stones shall be well-graded mass. Spaces between the larger rocks shall be filled with smaller rocks. Smaller rocks shall not be grouped as a securely bedded with individual stones firmly in contact one to another. Sufficient handwork shall be performed to produce a substitute for larger rock. Flat slab rock shall be laid on edge. neat and uniform surface. Chinking rocks shall be well graded. If necessary, individual stones shall be rearranged by hand to produce a well-graded mass during backfill. Spaces between the larger rocks shall be filled with smaller rocks. Smaller rocks shall not be grouped as a substitute for larger rock. Flat slab rock shall be laid on edge.

DESCRIPTION

The work shall include all labor. materials. and equipment required to assemble the pipe sections, excavate and prepare the bed for the pipe and place and compact the backfill to the lines and grades shown on the drawings.

MATERIALS REQUIREMENTS

All materials must be handled and stored in a careful and workmanlike manner. All pipes and fittings must be of the length, SEED BED PREPARATION size and type specified. Unless otherwise noted, all pipes and fittings must be attached according to manufacturers' recommendations. All materials shall be carefully inspected before they are installed. All materials with physical imperfections The seed bed shall be disked to loosen surface soils and break apart large clumps of soil. A harrow shall then be implemented or that are damaged, lost, broken or deemed unsuitable due to the Contractor's method of installation, handling, or negligence to further pulverize the soil and smooth the surface of the restoration site. The entire area will be finished with a cultipacker or must be replaced at the Contractor's expense. Pipe shall meet the requirements of MnDOT Specification 2501.2(A)(5). roller to give a smooth planting surface. Once the seed bed preparation has been completed, the seed zones shall be staked in the field

2

REINFORCED CONCRETE PIPE (RCP)

Unless otherwise specified, the pipe shall meet the requirements of AASHTO M 170 and MnDOT Specification 3236.2(A). Gasketed couplers shall be provided for each pipe joint. Class III pipe shall be used for storm sewer or culvert crossings unless otherwise specified

CONSTRUCTION REQUIREMENTS

HANDLING THE PIPE

The Contractor shall furnish all equipment necessary to transport and place the pipe without damaging it or its coatings. When handling and placing the pipe, care shall be taken to prevent impact blows, abrasion damage, and gouging or cutting (by equipment or other site materials)

All special handling requirements of the manufacturer shall be strictly observed. Special care shall be taken to avoid impact when the pipe must be handled at temperatures of 40° F or less. The pipe shall be stored on a relatively flat surface so that the full length of the pipe is evenly supported.

CONNECTIONS

Where existing tile lines not shown on the drawings are crossed, they shall be bridged across the new trench or they shall be connected into the new tile lines

INSTALLATION AND ASSEMBLY OF PIPE

The trench or excavation for the placement of the pipe shall be constructed to elevations and grades as shown.

Unless otherwise noted, excavation for and subsequent installation of pipe sections shall begin at the outlet end and progress upstream. All field cut pipe ends shall have all burrs removed prior to assembling the joints. All pipelines shall be free of foreign material during installation. For storm sewer or culverts, all joints will not permit the intrusion of soil or backfill materials and shall meet the watertight requirements of ASTM F2436 or ASTM F2811. For RCP, all joints shall be rubber gasketed conforming to MnDOT Standard Plate 3006.

Pipe placed during any day shall be blinded by the end of the day. Trench shields, shoring and bracing, or other methods necessary to safeguard the workers and the work, and to prevent damage to existing improvements, shall be furnished, placed, and subsequently removed by the Contractor. Trenching and backfilling shall meet the installation requirements of MnDOT Specification 2501.3.

OUTLET LOCATION MARKING

All pipe outlets including concrete headwalls and pipe aprons shall be marked with a guide post

BACKFILLING

The bottom of the trench will be first excavated to a depth of approximately 15 percent of the outside pipe diameter below the established grade for the bottom of the pipe. Then the bottom of the trench will be further excavated to allow for the placent of 6.0-inches of granular bedding for a width of at least 60 percent of the outside diameter of the pipe. A pipe will be placed the bottom of the pre-shaped excavated trench. The bottom of the excavated trench will be shaped to fit the circumference the pipe up to 0.15 of the outside diameter of the pipe. The Contractor shall encase the pipe from the 0.15 outside diameter to

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Phone	: (507) 208-4332	BAN		1
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www.	bolton-menk.com	CLIENT PROJ. NO.		
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the 0.60 diameter height of the pipe with granular material compacted to 95 percent Standard Proctor Density or as ecommended by the pipe manufacturer, whichever is denser.

Select native material may be used as trench backfill above the granular bedding up to the bottom of the subgrade except in those conditions where the top of the pipe is less than 12.0-inches from the bottom of the subgrade in which case granular material compacted to 100 percent Standard proctor Density will be used as trench backfill the full width of the trench to the bottom of the subgrade excavation zone.

All trench backfill will be compacted in accordance with the Specified Density Method:

Under areas with proposed paved or structural improvements: 100 percent Standard Proctor from the proposed pavement subgrade elevation down 3.0-feet AND 95 percent Standard Proctor from the bottom of excavation up to 3.0-feet below the subgrade elevation

Under areas with no proposed paved or structural improvements: 95 percent Standard Proctor

Subgrade Excavation shall be performed when unsuitable material below the depth of the utility excavation and pipe bedding zone is encountered, as determined by the Owner in the field.

IN-STREAM FORD AND BOULDER PLACEMENT:

The work shall include all labor, materials, and equipment required to assemble the boulder weir, excavate and prepare the bed for the boulder placement, place chinking rocks and gravel backfill, and compact the system to lines and grades shown on the drawings. Excavation, special backfill, sill backfill, and chinking material are incidental to this item.

MATERIALS REQUIREMENTS

CONSTRUCTION REQUIREMENTS

SEEDING

DESCRIPTION

Seed bed preparation shall be conducted throughout the entire restoration site, wetland and buffer, and shall include the proposed vegetated maintenance road.

SEQUENCING OF SEEDIN

ENGING OF GEEDING		SECOM: X PLANTING TABLE	
Seed Mix "Wetland Meadow Mix"		SCORTA STRATING TOBLE	
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Seed Mix "Emergent Wetland Mix"			CBS/AC
Geed with Emergent wetland with	35 24]	DRILL SEEDER	36.5
Seed Mix State Seed Mix 35-241	WETLAND MEADOW MIX	DRUL SEEDER	4.3
	OAT COVER CROP	DRUL SCEDER	100
	EMERGEN EWETLAND MOX	BROADVAST	4.8

STATE SEED MIXES

State seed Mixes will be used for the project as follows

General Seeding - State Seed Mix 35-241, Mesic Prairie General

- Wetland Meadow Mix Type 2 Wetland
- Type 3 Wetland Emergent Wetland Mix

SEEDING RATES

Seed mixes shall be planted using the methods and rates described in the Seed Mix Planting Table

GENERAL CONSTRUCTION PHASING:

s	The contractor is required to provided an updated schedule and site management plan meeting the minimum requirements of
	Section 1717 of the Minnesota Standard Specifications for construction.

Notify Anoka County, City of Oak Grove, and City of Andover 1 week in advance of road closure work on CR 58.

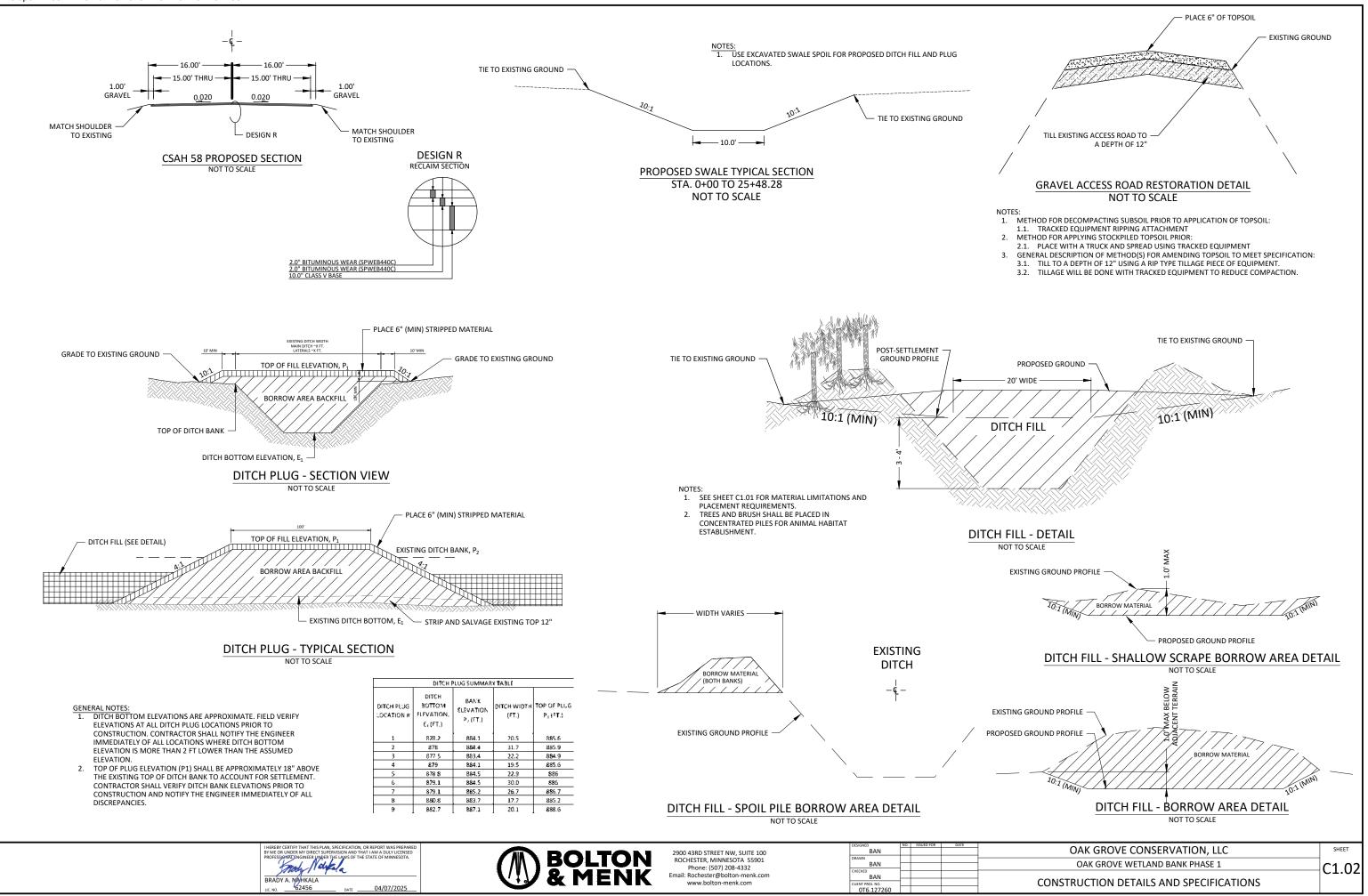
- 2 Perform removals Site grading.
- Construct CR 58 culvert. Contractor shall minimize the duration of road closure.

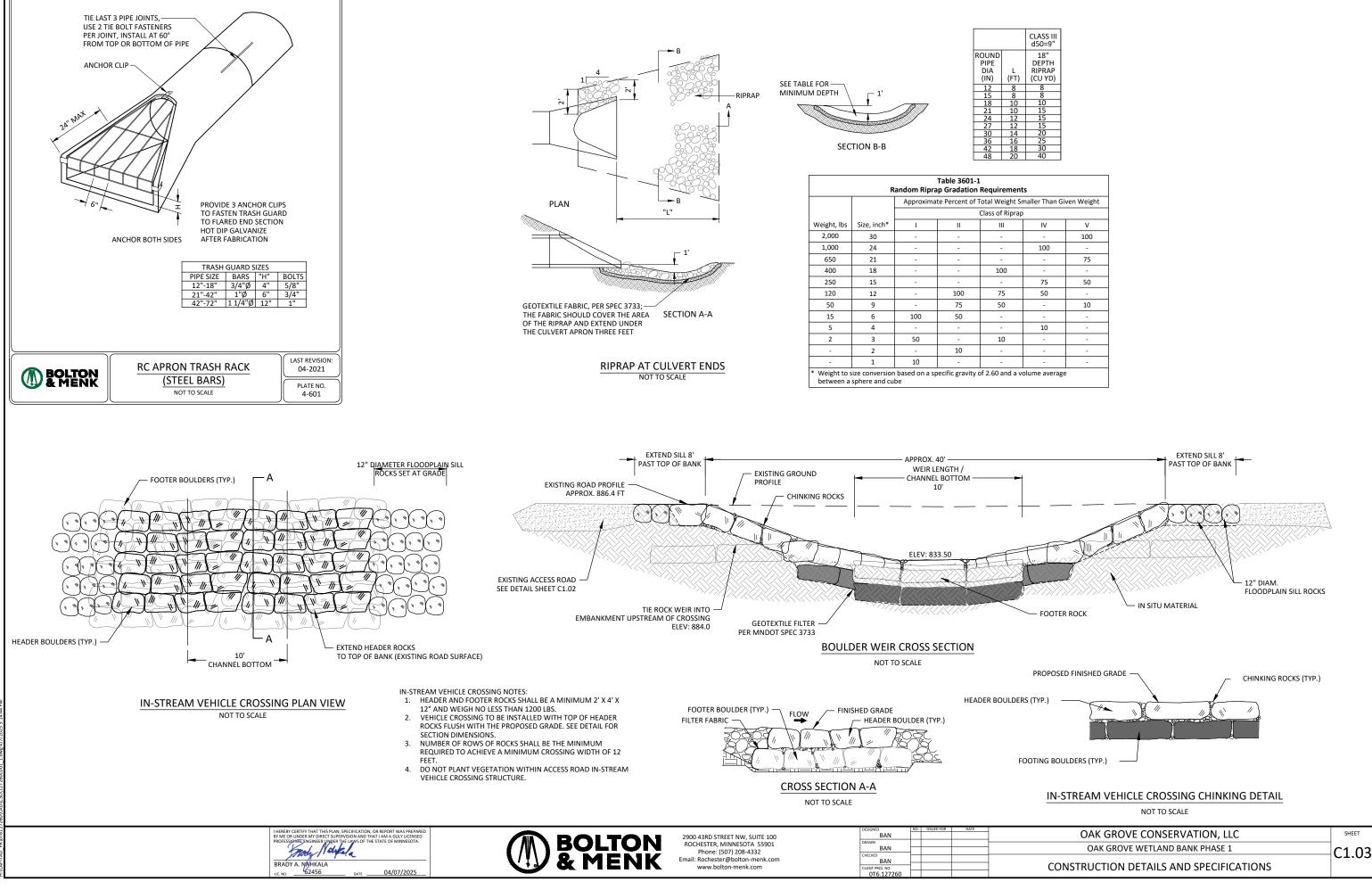
- 5 Spillway construction
- Access road restoration
- Final stabilization and seeding.

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OAK GROVE CONSERVATION, LLC OAK GROVE WETLAND BANK PHASE 1

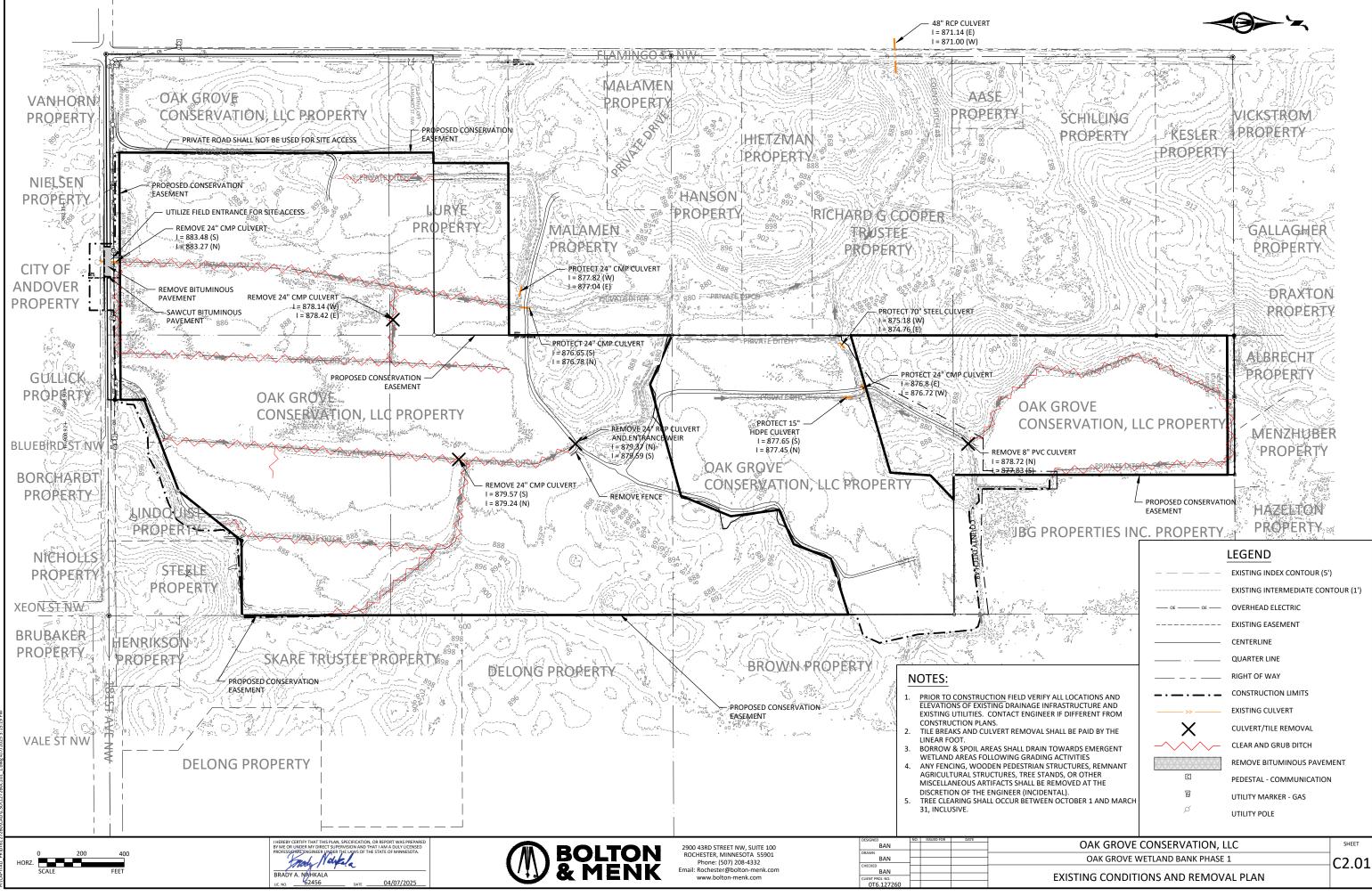
CONSTRUCTION DETAILS AND SPECIFICATIONS

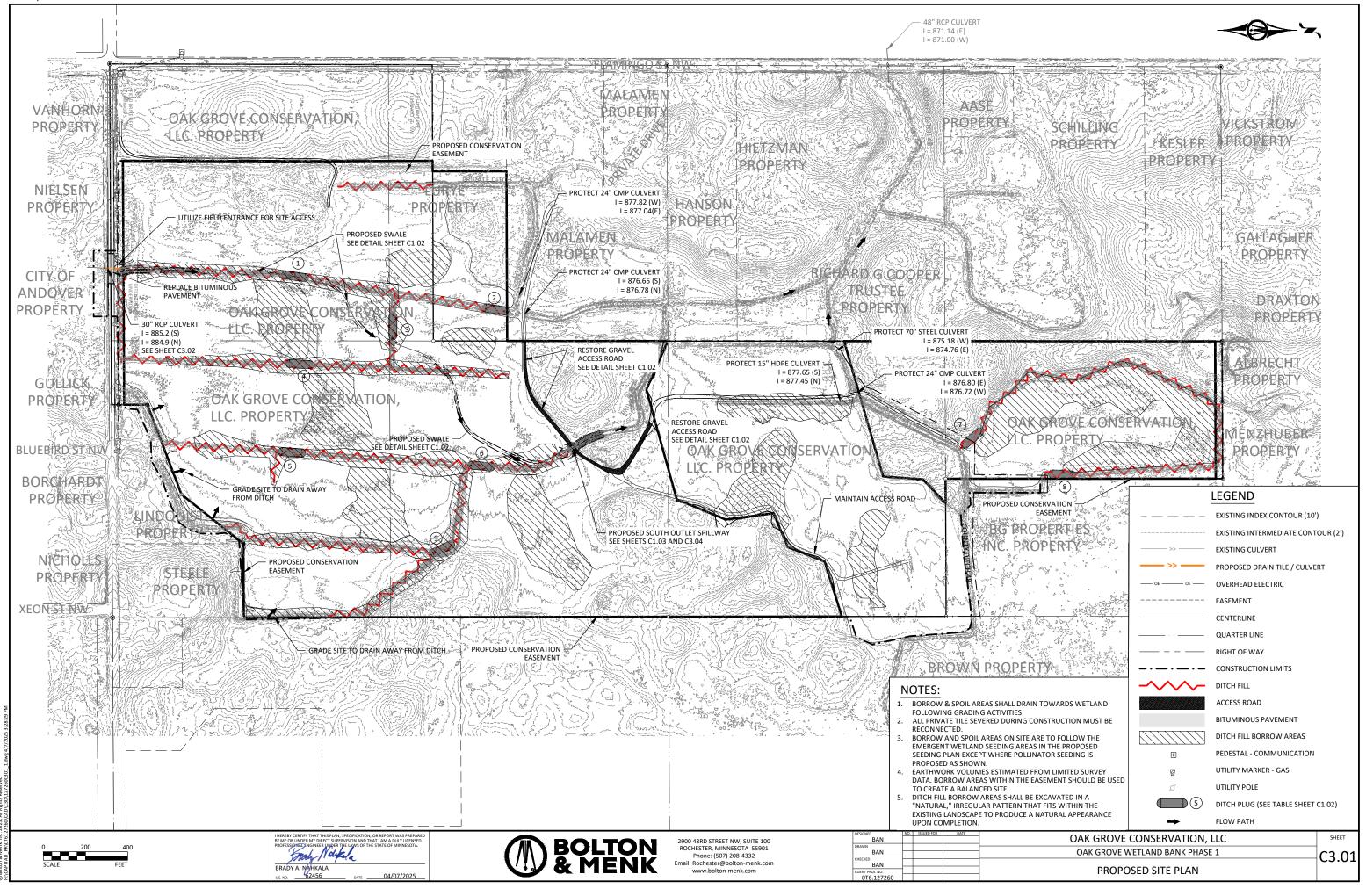


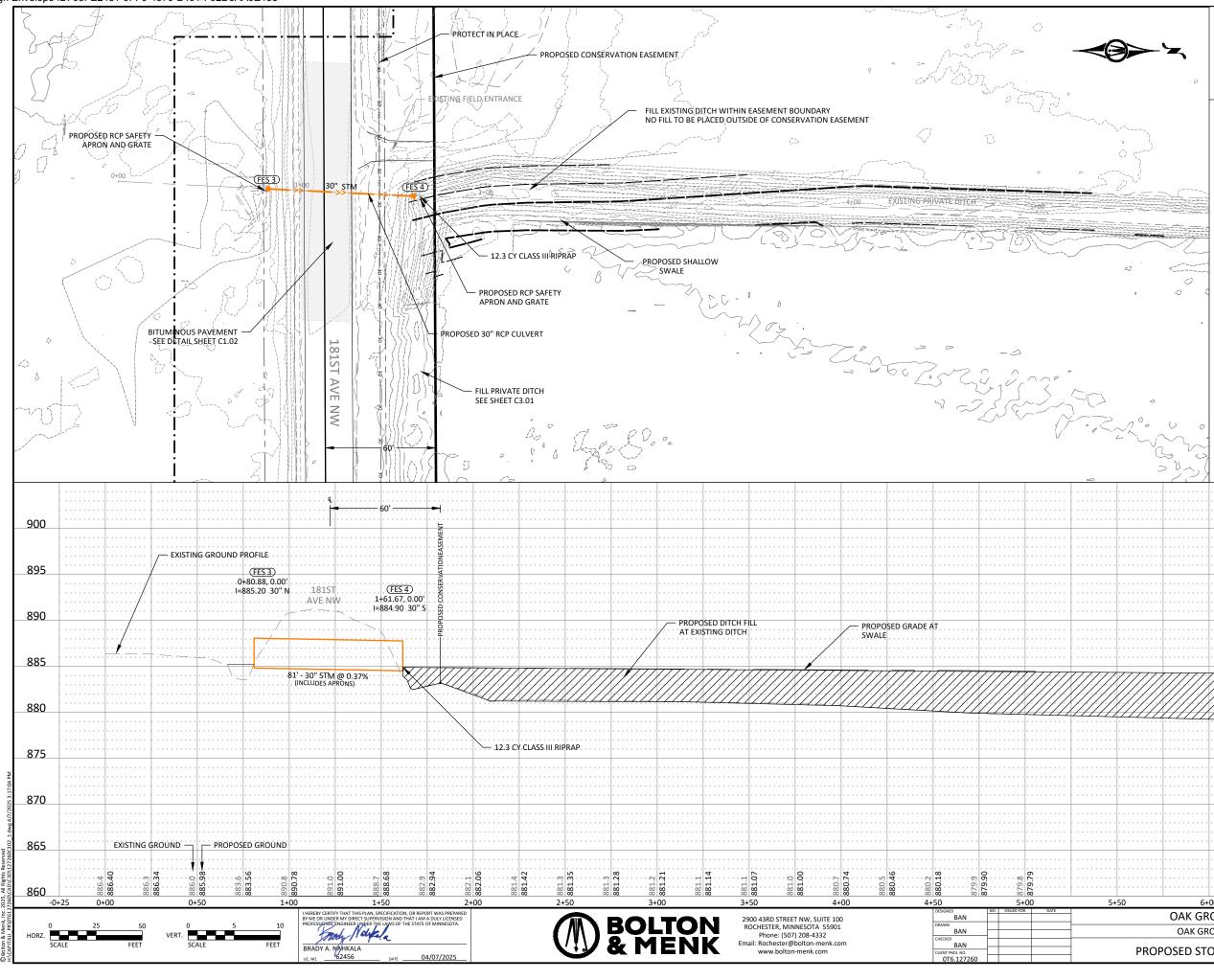


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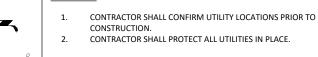




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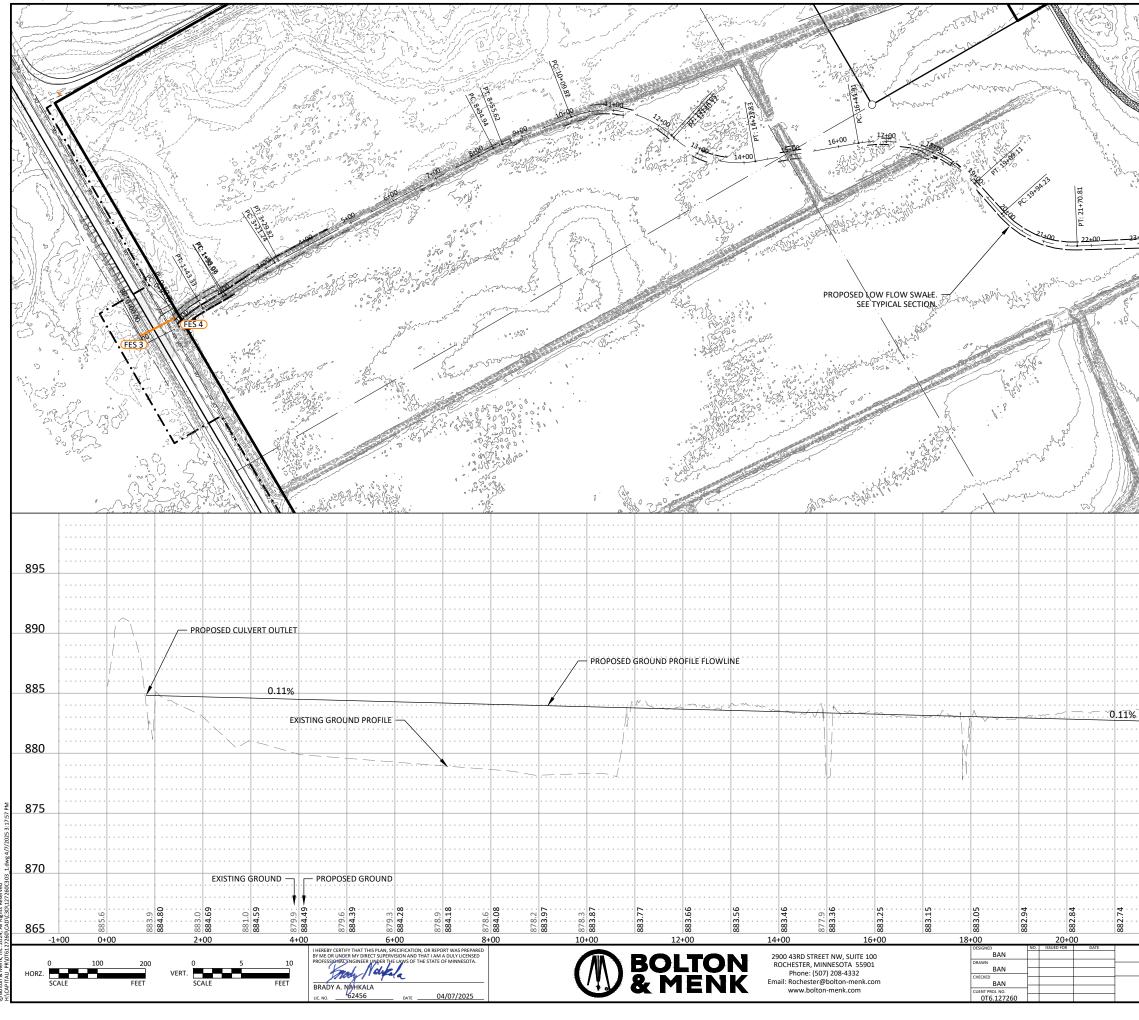
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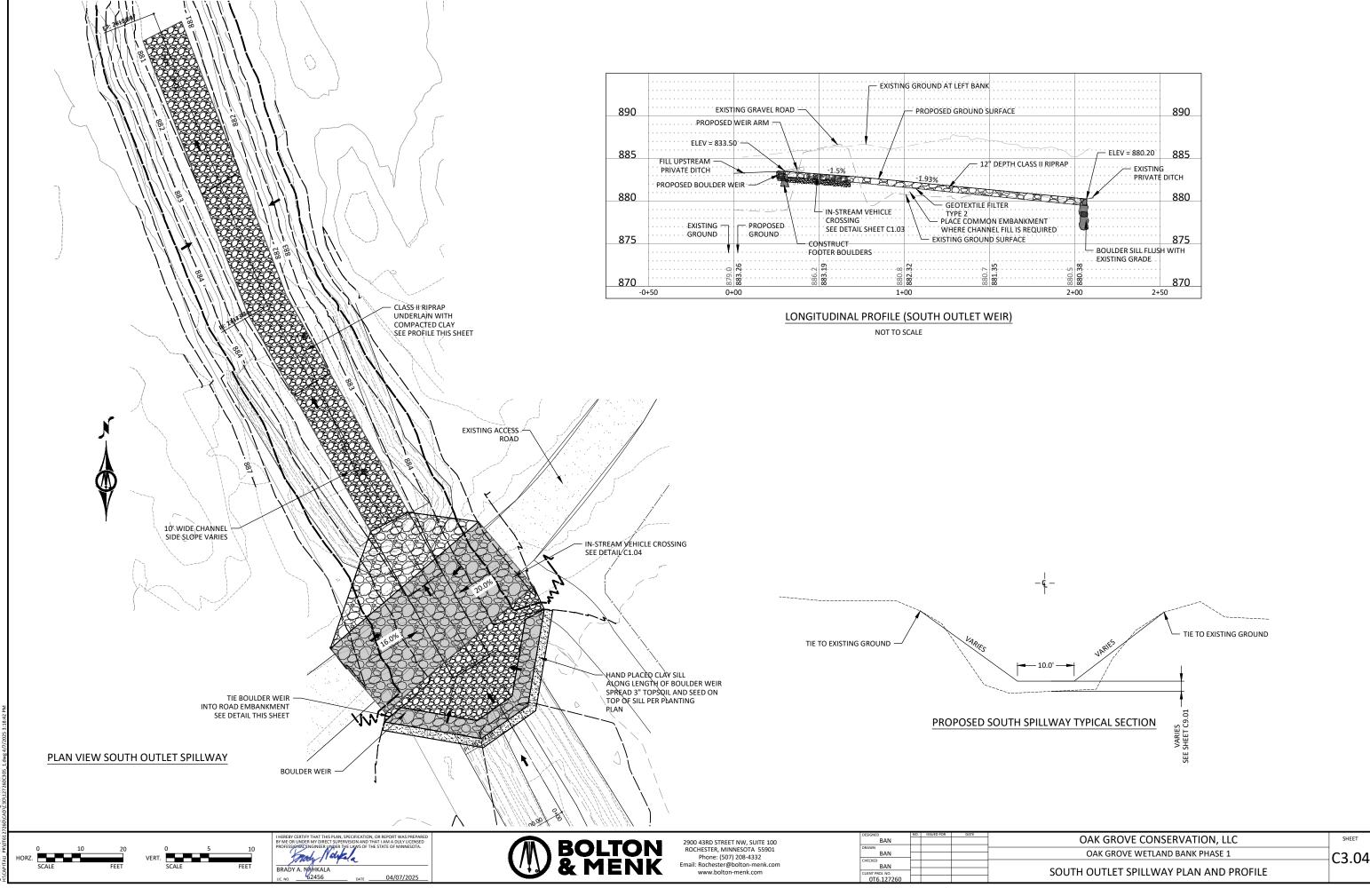
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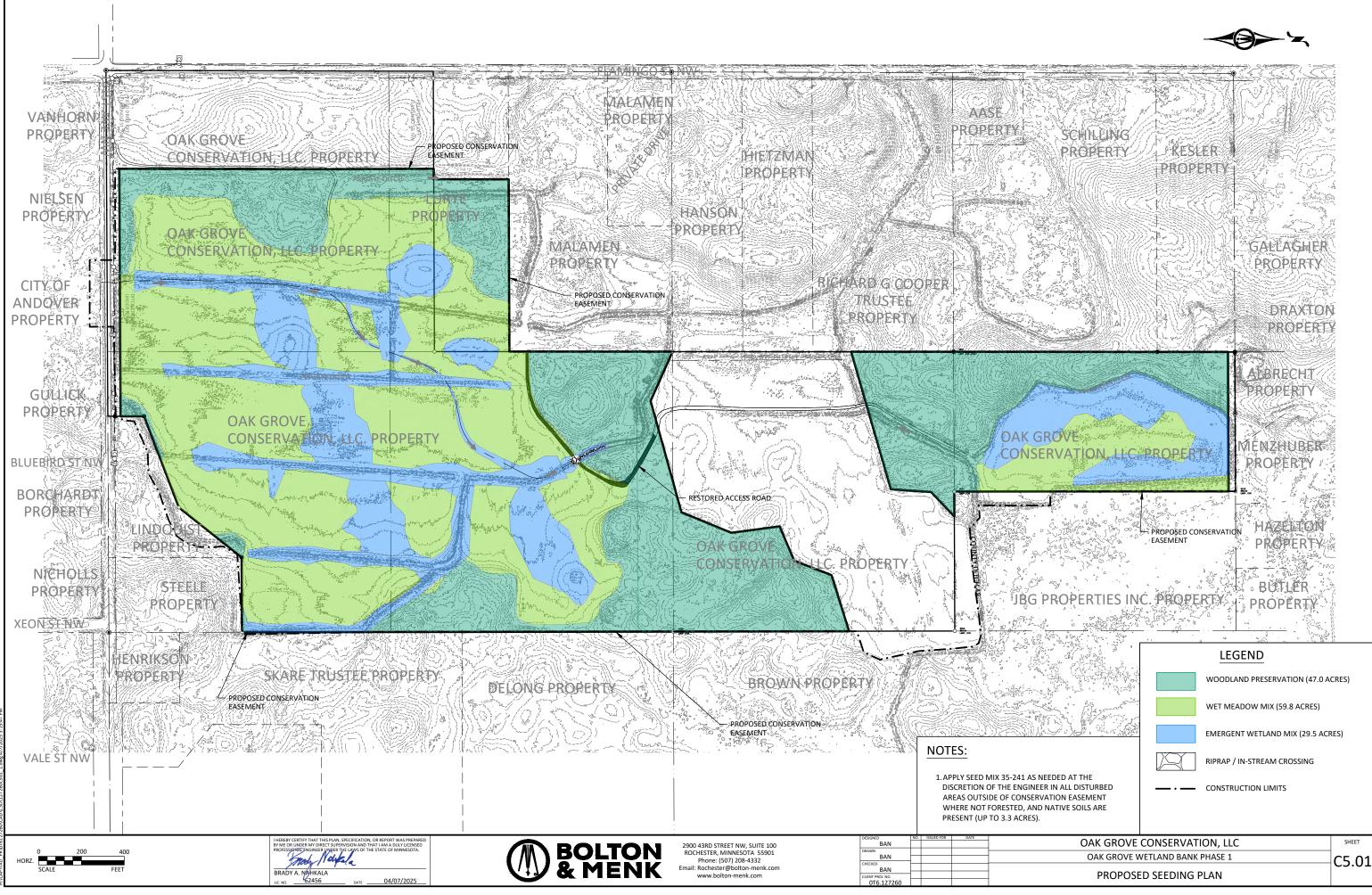
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Wetland Meadow Mix

Common Name	Scientific Name	Rate (Ib/ac)	% of Mix (% by wt)
Fringed brome	Bromus cialatus	1	55.56%
Virginia Wild Rye	Elymus virginicus	0.5	27.78%
Reed Manna Grass	Glyceria grandis	0.1	5.56%
Rice Cut Grass	Leersia oryzoides	0.2	11.11%
	Total Grasses:	1.8	100.00%
	Totals:	1.8	100.00%
	Wet Meadow - Forbs and Grasse	s mix	
Common Name	Scientific Name	Rate (Ib/ac)	% of Mix (9 by wt)
Scarlet Toothcup	Ammannia cocinea	0.125	3.81%
Rose milkweed	Asclepia incarnata	0.25	7.62%
Swamp Aster	Aster puniceus	0.063	1.90%
False aster	Boltonia asteroides	0.063	
Joe Pye Weed	Eupatorium maculatum	0.063	1.90%
Boneset	Eupatorium perfoliatum	0.031	0.95%
Bottle Gentian	Gentiana andrewsii	0.063	1.90%
Northern Blue Flag	Iris versicolor	0.125	3.81%
Prairie Blazing Star	Liatris pycnostachya	0.188	5.71%
Great Blue Lobelia	Lobelia siphilitica	0.063	1.90%
Water Horehound	Lycopus americanus	0.063	1.90%
Prairie Loosestrife	Lysimachia quadriflora	0.031	0.95%
Wild Mint	Metha arvensis	0.063	1.90%
Monkey Flower	Mimulus ringens	0.031	0.95%
Pinkweed	Polygonum pensylvanicum	0.063	1.90%
Mountain Mint	Pycnanthemum virginianum	0.031	0.95%
Black-eyed Susan	Rudbeckia hirta	0.188	5.71%
Grass-leaved Goldenrod	Solidago graminifolia	0.031	0.95%
Great Bur Reed	Sparganiam eurycarpum	0.5	15.24%
Blue Vervain	Verbena hastata	0.125	3.81%
Golden Alexanders	Zizia aurea	0.188	5.71%
	Total Forbs	2.343	71.43%
Porcupine sedge	Carex hystericina	0.188	5.71%
Common Fox Sedge	Carex stipata	0.375	11.43%
Brown Fox Sedge	Cares vulpinoidea	0.188	
Canada Rush	Juncus canadensis	0.063	1.90%
Common Rush	Juncus effusus	0.063	
Dark-green Bulrush	Scirpus atrovirens	0.063	
	Total Sedges and Rushes	0.938	28.57%
	Totals:	3.281	100.00%
	Oats Cover Crop	5.201	100100 /0
Common Name	Scientific Name	Rate (Ib/ac)	% of Mix (% by wt)
Oats	Avena sativa	100	100.00%
	Total:	100	100.00%

**Custom Wet Meadow Mix** 

105.08 lbs/ac

Emergent Wetland Mix

		Rale	% of Mix
Common Name	Scientific Name	(lb/ac)	(% by wt)
American Skrugh Grass	Beckmannia syzigachne	0.7	40 00%
Reed Manna Grass	Glyceria grandis	0.25	14.29%
Rice Cut Grass	Leersia oryzoides	0.3	17.14%
Cord Grass	Spartine pectineta	28.57	5.00%
	Total Grasses		100.00%
	Totals:	1.75	100.00%

Common Name	Scientific Name	Rate (kg/ha)	Rate (Ib/ac)	% of Mix (% by wt
Sweet Flag	Acorus americanus	0.31	0.28	921%
Large-flowered Water Plantain	Alisma trivale	0.45	0.4	13.16%
Scarlet Toothcup	Ammannia coccinea	0.07	0.06	1.97%
Rose Milkweed	Asclepias incarnata	0.31	0.28	9.21%
Pinkweed	Polygonum pensylvanicum	0.07	0.06	1.97%
Common Arrowhead	Sagittaria latifolia	0.34	0.3	9.87%
Great Bur Reed	Sparganium eurycarpum	0.55	0.49	16.12%
	Total Forbs	2.1	1.87	61.51%
Buttonbush	Cephalanthus occidentalis	0.13	0.12	3.95%
	Total Trees, Shrubs, and Vines	0.13	0.12	3.95%
Bristly Sedge	Carex comosa	0.2	0.18	5.92%
Common Lake Sedge	Carex lacustris	0.07	0.06	1.97%
Common Fox Sedge	Cares stipata	0.2	0.18	5.92%
Common Tussock Sedge	Carex stricta	0.04	0.04	1.32%
Spike Rush	Eleocharis acicularis	0.1	0.1	3.29%
Great Spike Rush	Eleocharis palustris	0.1	0.1	3.29%
Torrey's Rush	Juncus torreyi	0.04	0.04	1.32%
Wool Grass	Scirpus cyperinus	0.06	0.05	1.64%
Chairmaker's Rush	Scirpus pungens	0.17	0,15	4 93%
Great Bulrush	Scirpus validus	0,17	0,15	4 93%
	Total Sedges and Rushes	1.18	1.05	34.54%
	Totals:	3.41	3.04	100.00%

35-241 Mesic Prairie General

## Common Name big bluestem

Indian grass side-oats grama little bluestem

nodding wild rye slender wheatgrass kalm's brome prairie dropseed switchgrass

black-eyed susan
purple prairie clover
Early Sunflower
blue giant hyssop
lead plant
Canada milk vetch
white prairie clover
Canada tick trefoil
stiff sunflower
wild bergamot
stiff goldenrod
smooth aster
hoary vervain
golden alexanders
common milkweed
butterfly milkweed
blue vervain
rough blazing star
great blazing star

heath aster

Oats	

Purpose:

Planting Area:

I HERERY CERTIFY THAT THIS PLAN, SPECIFICATION, OR REPORT WAS PREPARED BY WE OR UNDERWYDIERC STUPENVSION AND THAT I AM A DILY LICENSED PROFESSIONACENSINEER UNDER THE LAWS OF THE STATE OF MINNESOTA.	
BRADY A. NAHKALA	

LIC. NO.



2900 43RD STREET NW, SUITE 100 ROCHESTER, MINNESOTA 55901 Phone: (507) 208-4332 Email: Rochester@bolton-menk.com www.bolton-menk.com

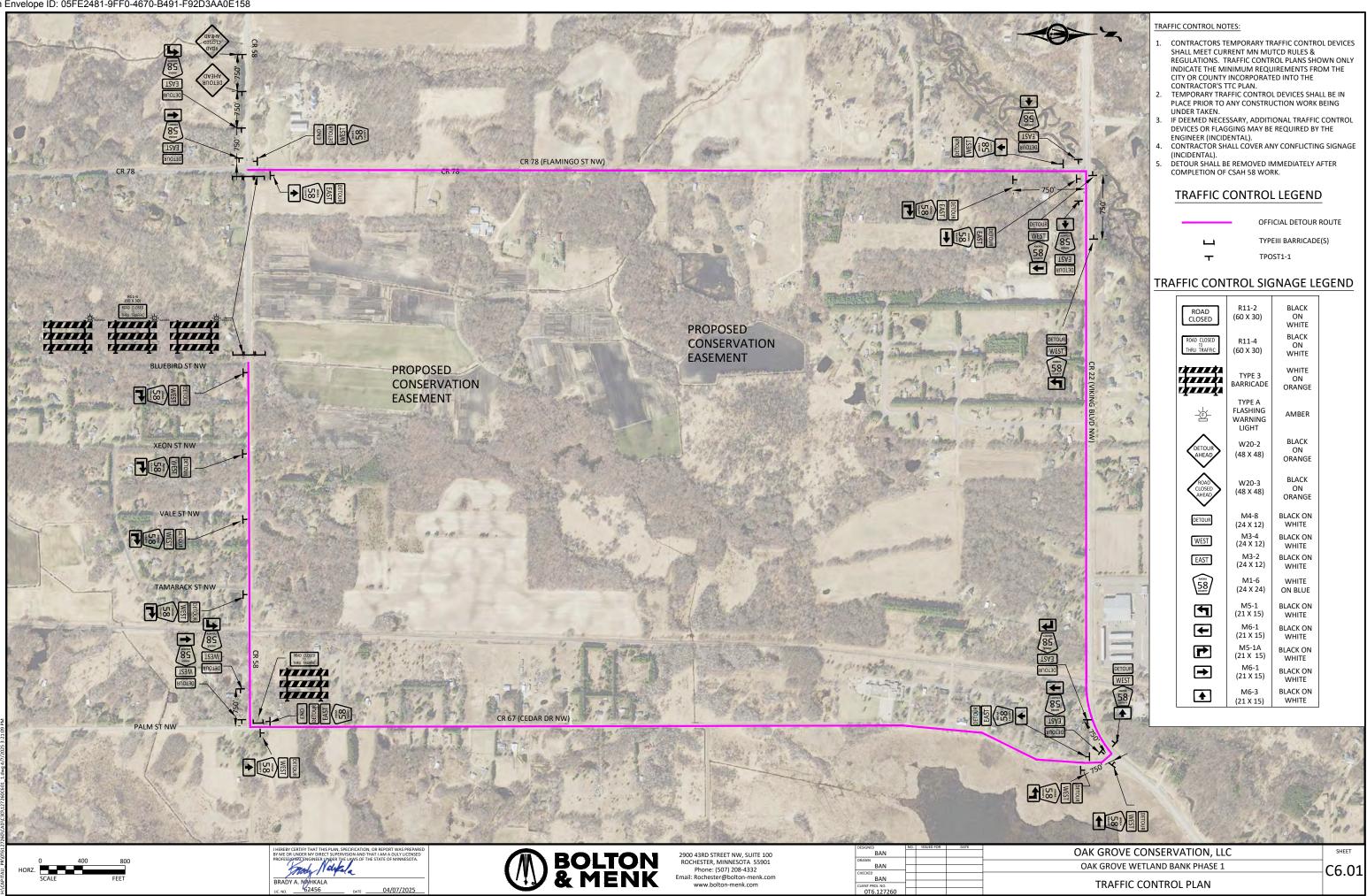
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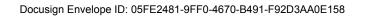
Scientific Name	Rate (Ib/ac) R	ate (kg/ha)	% of Mix (by weight)	Seeds/ sq ft
Andropogon gerardii	2.00	2.24	5.48%	7.35
Sorghastrum nutans	2.00	2.24	5.48%	8.82
Bouteloua curtipendula	1.60	1.79	4.39%	3.53
Schizachyrium	4.00	4 70	4.00%	
scoparium	1.60	1.79	4.39%	8.82
Elymus canadensis	1.17	1.31	3.20%	2.23
Elymus trachycaulus	1.00	1.12	2.73%	2.53
Bromus kalmii	0.50	0.56	1.37%	1.47
Sporobolus heterolepis	0.07	0.08	0.18%	0.39
Panicum virgatum	0.06	0.07	0.17%	0.32
Grasses Subtotal	10.00	11.21	27.39%	35.46
Rudbeckia hirta	0.31	0.35	0.86%	10.56
Dalea purpurea	0.19	0.21	0.51%	1.03
Heliopsis helianthoides	0.13	0.15	0.34%	0.29
Agastache foeniculum	0.06	0.07	0.15%	1.82
Amorpha canescens	0.06	0.07	0.15%	0.25
Astragalus canadensis	0.06	0.07	0.17%	0.39
Dalea candida	0.06	0.07	0.17%	0.44
Desmodium canadense	0.06	0.07	0.18%	0.13
Helianthus pauciflorus	0.06	0.07	0.17%	0.09
Monarda fistulosa	0.06	0.07	0.17%	1.61
Oligoneuron rigidum	0.06	0.07	0.17%	0.94
Symphyotrichum laeve	0.06	0.07	0.17%	1.26
Verbena stricta	0.06	0.07	0.17%	0.64
Zizia aurea	0.06	0.07	0.15%	0.23
Asclepias syriaca	0.04	0.04	0.10%	0.06
Asclepias tuberosa	0.04	0.04	0.10%	0.06
Verbena hastata	0.04	0.04	0.12%	1.50
Liatris aspera	0.03	0.03	0.08%	0.18
Liatris pycnostachya	0.03	0.03	0.09%	0.13
Symphyotrichum				
ericoides	0.03	0.03	0.09%	2.30
Forbs Subtotal	1.50	1.68	4.11%	23.89
Avena sativa	25.00	28.02	68.50%	11.14
Cover Crop Subtotal	25.00	28.02	68.50%	11.14
Total	36.50	40.91	100.00%	70.49
General mesic prairie mix conservation program pla	ntings.			
Tallgrass Aspen Parkland Provinces. Mn/DOT Distric				est

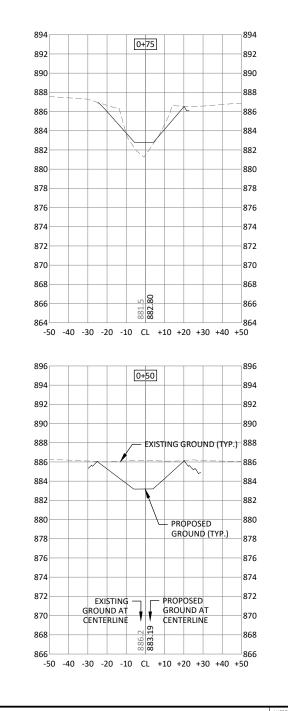
OAK GROVE CONSERVATION, LLC
OAK GROVE WETLAND BANK PHASE 1

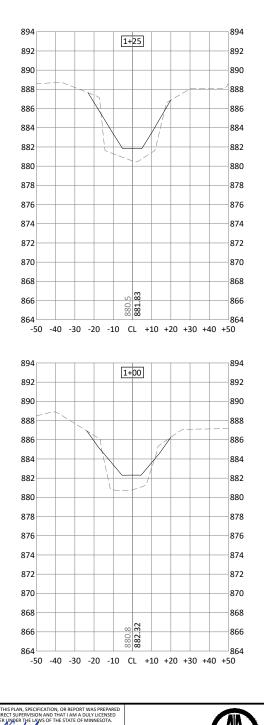
PROPOSED SEEDING PLAN

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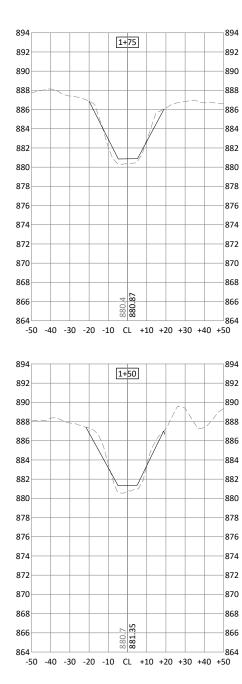


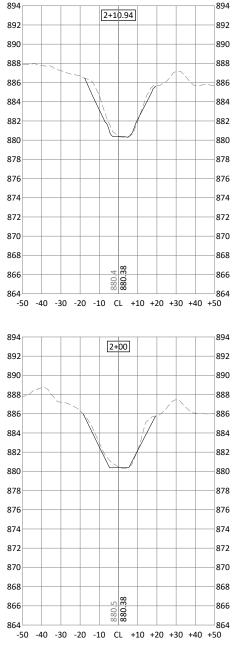


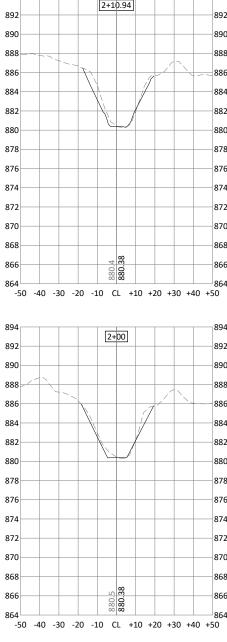


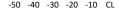


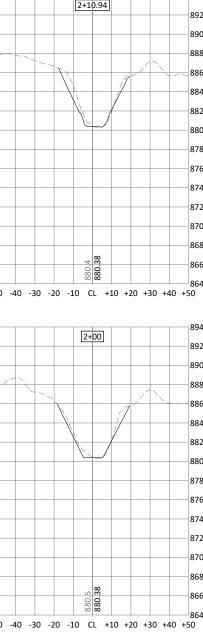
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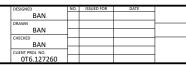




0	25	50	0	5	10	I HEREBY CERTIFY THAT THIS PLAN, SPECIFICATION, O BY ME OR UNDER MY DIRECT SUPERVISION AND THA' PROFESSIONALENGINEER UNDER THE LAWS OF THE S
HORZ.		FFFT	VERT.		FFFT	may dupla
SCALE		FEET	SCALE		FEET	BRADY A. NAHKALA



2900 43RD STREET NW, SUITE 100 ROCHESTER, MINNESOTA 55901 Phone: (507) 208-4332 Email: Rochester@bolton-menk.com www.bolton-menk.com



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Damian Holynskyj Damian.Holynskyj@davey.com Security Level: DocuSign.email ID: 1 5/7/2025 9:06:10 AM

Electronic Record and Signature Disclosure: Accepted: 5/7/2025 9:06:22 AM

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Susan Burgmeier Susan.Burgmeier@anokacountymn.gov

Associate Traffic Technician

Anoka County

Signing Group: Highway Permits

•••

Security Level: Email, Account Authentication (Optional)

## Electronic Record and Signature Disclosure: Accepted: 5/6/2025 7:42:09 AM

ID: 02afb2fe-7cd3-46ca-8ed5-11da9dcdf2b6

Holder: Highway Permits highwaypermits@anokacountymn.gov Pool: StateLocal Pool: Anoka County

## Signature

—signed by: Damian Holynsky _29516499F6A74FE...

Signature Adoption: Pre-selected Style Using IP Address: 96.242.221.198

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Damian.Holynskyj@davey.com

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