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**DECLARATION OF COVENANTS, EASEMENT AND AGREEMENT
FOR MAINTENANCE OF STORMWATER FACILITIES**

This Declaration of Covenants, Easement and Agreement for Maintenance of Stormwater Facilities (the “Agreement”) is made by and between Carleton College, a Minnesota nonprofit corporation, One North College Street, Northfield, MN 55057 (the “Owner” or “Responsible Party”), and the City of Northfield, a Minnesota municipal corporation, 801 Washington Street, Northfield, MN 55057 (the “City”); (collectively the “parties”).

RECITALS:

WHEREAS, the Owner is the owner of certain real property located in the City of Northfield, Rice County, Minnesota, legally described as follows:

See Exhibit A attached hereto and incorporated herein by reference (the “Property”); and

WHEREAS, the City Development Review Committee (“DRC”) approved a site plan for improvements for a development consisting of a road reconstruction and parking lot alteration and associated improvements including storm sewer, storm water management facilities, grading and erosion control facilities and other private improvements (the “project”) upon the Property; and

WHEREAS, all construction and site improvements for the project must be in conformance with the approved site plan (the “Site Plan”) and in conformance with City Code; and

WHEREAS, the Owner plans to install, operate, repair and maintain storm water facilities consisting of a stormwater infiltration system, filtration basins, sedimentation basins, pretreatment devices, and related appurtenances (the “Facilities”) on a portion of the Property for future use and benefit of the project; and

WHEREAS, the Facilities on the Property were designed by TKDA: Engineering, Architecture, and Planning in accordance with the requirements of City Code, Chapter 22, Environment, Article VI, Surface Water Management, Division 2, Stormwater Management; and

WHEREAS, the Owner shall install, operate, repair, and maintain the Facilities pursuant to City Code and in accordance with those approved plans and specifications, including but not limited to the following plans, attached hereto as Exhibits and incorporated herein by reference, hereinafter collectively referred to as the “specifications”:

- Exhibit B Erosion and Sediment Control Plan (C100 – C102)
 - Exhibit C SWPPP Narrative (C103 – C104)
 - Exhibit D Utility Plan (C300 - C302)
 - Exhibit E Storm Profiles and Schedules (C303 -C304)
 - Exhibit F Grading Plan (C400 – C402)
 - Exhibit G Landscape Plan and Planting Schedule (C600 – C603)
 - Exhibit H Site Details (C700 – C705)
 - Exhibit I Stormwater Management, Operation and Maintenance Plan/Checklist (The Plan is on file with the City of Northfield. The Plan outlines the schedule for inspections and the locations and items to be inspected. The Plan shall provide guidance as to when and where maintenance should be completed.)
- ; and

WHEREAS, in order to provide stormwater management and control, to meet the City’s stormwater permitting requirements, and to promote the water quality and volume control to the City's stormwater system and water bodies, the Owner and the City agree that it is reasonable and appropriate for the City to require the Owner and all subsequent owners of the Property to inspect, operate, repair, maintain and replace, at the Owner’s cost and expense, the Facilities on a regular basis to ensure that the Facilities function as intended in compliance with the specifications, applicable law, stormwater permitting requirements, as applicable, and this Agreement; and

WHEREAS, pursuant to City Code, the Owner and the City desire to set forth, in this recordable instrument, their agreement to establish covenants and declarations upon the Property for the installation of and ongoing operation, repair, maintenance and replacement of the Facilities on the Property by the Owner and the Owner’s successors and assigns at the Owner’s and the Owner’s successors’ and assigns’ cost and expense.

NOW, THEREFORE, in consideration of the foregoing facts and circumstances, and for other good and valuable consideration, the receipt and sufficiency of which is hereby acknowledged, the parties hereto agree as follows:

1. Installation, Construction and Maintenance.
 - a. Construction and Installation Requirements. The Owner shall construct and install the Facilities in accordance with the Site Plan, the approved specifications and this Agreement, at the Owner’s sole cost and expense.
 - b. Maintenance Obligation. The Owner shall operate, maintain, repair and replace, as applicable, the Facilities in accordance with the Site Plan, the approved

specifications, this Agreement, and applicable law and City Code, as amended, at the Owner's sole cost and expense.

- c. Snow and Leaf Removal and Prohibited Storage. The Owner shall sweep clean the private streets, driveways, parking area and walkways on the Property in April or May and October or November each year to remove from the Property all sand and salt deposited on the private streets, driveways, parking area and walkways. The Owner shall also remove all tree leaves from the Property after they fall to the ground in October or November each year.
- d. Personal Property or Debris Storage Prohibited. The Owner shall not deposit or store any personal property or debris, litter, or other objects within the Facilities or in any manner that will otherwise interfere with the proper operation and maintenance of the Facilities, and the Owner shall use reasonable efforts to keep the Facilities free of any debris, leaves, litter, or other objects.
- e. Maintenance of Vegetation. As applicable, the Owner shall maintain and, when necessary, replace approved plants and vegetation set forth in the specifications. Notwithstanding normal plant maintenance, such as pruning, dividing or thinning vegetation, the Owner shall seek approval from the City before materially altering the plants used as part of or in relation to the Facilities. The Owner shall not use any chemicals within the Facilities unless first approved by the City and only when necessary for the protection of the Facilities or vegetation associated therewith. The Owner shall repair any erosion within or surrounding the Facilities. The Owner shall conduct monthly inspections of the Facilities during the growing season, at the Owner's sole cost and expense, to ensure the Facilities and associated vegetation are maintained in material compliance with the specifications, this Agreement, and applicable law and City Code, as amended. If necessary, the Owner shall repair the Facilities if not in conformance with the standards set forth herein. Repairing landscape and vegetation to maintain a healthy plant community associated with the Facilities may include replacement of dead or diseased plants, vegetation or mulch and removal of noxious weeds, litter or other debris.
- f. Maintenance Costs. The Owner shall incur and pay all costs associated with operating, maintaining, repairing and replacing the Facilities on the Property pursuant to the terms and conditions of this Agreement and applicable law and City Code, as amended.
- g. Record Drawing Submittal. The Owner shall submit a record drawing to the City of the installed Stormwater Management Facilities. The Owner shall include all information referenced in the Record Plan Requirement document.

2. Inspections.

- a. Annual Inspections. The Facilities shall be inspected annually by a Qualified Person selected by the Owner to determine whether or not the same are functioning

in accordance with the specifications, this Agreement, and applicable law and City Code, as amended. As used in this Agreement, the term “Qualified Person” shall mean a professional engineer licensed by the State of Minnesota, or a person approved by the City Engineer based on training and experience. The Owner’s responsibilities under this Section shall be at the Owner’s sole cost and expense. If, as a result of the inspection, the Facilities or any portion thereof are determined not to be functioning in accordance with the specifications, this Agreement, or applicable law and the City Code, as amended, the Owner shall restore/repair/replace, as necessary, the Facilities, or portions thereof, as necessary or required by the City, to function as specified herein. Upon request from the Owner, the City Engineer may establish an inspection schedule permitting such inspections to be performed less frequently than annually, but the City Engineer may reinstate the annual inspection schedule at any time by notice to the Owner in the City Engineer’s sole judgment and discretion.

- b. City Notification of Inspection. The City shall be notified at least 48 hours prior to the annual inspections or any repair, maintenance or replacement of the Facilities and, at the sole cost of the City, a representative of the City may observe any inspection, repair, maintenance or replacement. The same shall be subject to any permitting that is applicable to the same.
- c. City Right of Entry and Independent Inspection. Pursuant to City Code, Section 22-306, which is incorporated herein by reference as amended, The City shall have right of entry onto the Property to inspect the Facilities at any reasonable time and in a reasonable manner, provided that the City shall use reasonable efforts to provide prior written notice to the Owner of its intent to enter the Property to inspect in order to allow a representative of the Owner to be present and observe any inspection. The City shall have the right to enter the Property upon reasonable notice to Owner (except in the event of an emergency) when the City has a reasonable basis to believe that a violation of the specifications, this Agreement, or applicable law and City Code, as amended, is occurring or has occurred and to enter upon the Property when necessary, in the City Engineer’s sole judgment and discretion, for abatement of a public nuisance or correction and enforcement of a violation of City Code or this Agreement. The City shall not be subject to or liable for any claims of trespass by the Owner in exercising its rights under this Agreement.
- d. Inspection and Maintenance Report. The Owner shall submit a report to the City, no later than two (2) weeks after any annual inspection or maintenance of the Facilities, providing the following information:
 - i. Date and time of inspection;
 - ii. Log of findings;
 - iii. Date and time of maintenance; and
 - iv. Log of maintenance performed.

3. Remediation and Waiver of Rights.

- a. Remediation Plan. If the City Engineer determines that the Facilities do not conform to the Site Plan, the approved specifications, this Agreement, or applicable law and City Code, as amended, the City Engineer shall notify the Owner of the deficiency in writing. The Owner shall submit a proposed remediation plan and schedule to the City Engineer within thirty (30) days after receipt of such written notice from the City. City and Owner shall use good faith efforts to agree on remediation plans. If the proposed remediation plan and schedule are not acceptable to the City Engineer, the City Engineer shall provide written notice to the Owner of the deficiency, and the Owner shall submit a revised plan to the City Engineer within fourteen (14) days after receipt of such written notice. If the City Engineer approves the proposed remediation plan and schedule, the Owner shall perform the remediation in compliance therewith at the Owner's sole cost and expense, subject to any applicable permitting requirements.
- b. Failure to Repair. If the Owner fails to submit a proposed remediation plan and schedule to the City Engineer as prescribed above, or fails to implement a City Engineer approved remediation plan to bring the Facilities into compliance with the specifications, this Agreement, or applicable law and City Code, as amended, then the same shall constitute an event of default, and at the sole cost and expense of the Owner, the City shall have the right, but no obligation, to prepare a remediation plan for the Facilities, enter upon the Property and complete all work necessary to correct the Facilities so as to bring the Facilities into compliance.
- c. Reimbursement to the City. The Owner shall reimburse the City within thirty (30) days after receipt of an invoice from the City for any and all reasonable costs incurred by the City in connection with preparing a remediation plan for the Facilities and all work completed by the City to bring the Facilities back into compliance or cure an event of default of any of the terms and conditions of this Agreement.
- d. Waiver of Rights and Certification. If the Owner does not timely reimburse the City as required above, the City may recover its costs by levying a special assessment against the Property certifying the same to the Rice County Auditor for collection in the same manner as property taxes upon the Property. The Owner, on behalf of itself and its successors and assigns, hereby acknowledges the benefit of such inspection/maintenance/repair/replacement of the Facilities to the Property by the City and hereby expressly waives any rights to hearings, notice of hearings, objections or appeal relating to the levying of any City assessments, the right to contest the City levied assessments under Minnesota Statutes § 429.081 or the certification of such levied assessments to the Rice County Auditor for collection with property taxes upon the Property.
- e. Right of Entry. The City shall have the right to enter the Property to implement the terms of this Paragraph 3 and enforce City Code, including but not limited to

Chapter 22, and applicable law. The City shall not be subject to or liable for any claims of trespass by the Owner. City Code, Section 22-308 is incorporated herein by reference, as amended.

4. Standards for Performance. Any act of construction, installation, operation, maintenance, repair or replacement to be performed under this Agreement shall be performed in a good and workmanlike manner pursuant to sound engineering practices and in compliance with all applicable governmental requirements, City Code, the Site Plan, the approved specifications, and applicable law and rules.
5. Grant of Easement. For valuable consideration, Owner conveys to the City an easement for inspection, maintenance and repair of the Facilities for purposes over, under, and across the Property (the “Easement”). The Easement hereby conveyed includes the right of the City, its contractors, employees, agents and assigns to:
 - a. reasonable right of ingress and egress to inspect the Facilities in accordance with the Agreement;
 - b. reasonable right of ingress and egress to perform the Owner’s remediation obligations upon default by Owner in accordance with this Agreement;
 - c. locate, construct, reconstruct, replace, operate, maintain, inspect, alter and repair the Facilities in accordance with this Agreement in the event the Owner fails to timely perform such obligations to the City Engineer’s satisfaction following notice thereof from the City to the Owner; and
 - d. cut, trim, or remove trees, shrubs, or other vegetation that, in the City’s judgment, unreasonably interfere with the Facilities in the event the Owner fails to timely perform such obligations to the City Engineer’s satisfaction following notice thereof from the City to the Owner.
6. Amendment, Release or Termination. Notwithstanding anything herein to the contrary, no amendment, release or termination of any of the provisions of this Agreement shall be effective or may be filed of record unless the City consents in writing to the amendment, release or termination. Such consent must be evidenced by a resolution duly approved by the City Council, or successor body. The Owner, on behalf of itself and its successors and assigns, expressly acknowledges and agrees that the City has no obligation whatsoever to approve or act upon any proposed amendment, release or termination, and may withhold or delay consent for any reason or no reason whatsoever, or may condition consent upon such terms and conditions as the City deems desirable, it being the City’s absolute right and prerogative to insist that the terms of this Agreement remain in effect and unaltered and to permit amendment, release or termination only at such times and under such circumstances, if any, as the City deems necessary or desirable in the exercise of the City’s sole judgment and discretion. The Owner, on behalf of itself and its successors and assigns, further agrees and covenants, consistent with this acknowledgment, not to institute any legal proceedings against the City on the grounds that the City failed to respond

appropriately to a proposed amendment, release or termination, and to indemnify the City against any expense, including litigation costs and attorneys fees, which the City incurs as a result of any violation by that party of this covenant. The City may, at any time, give up the right to approval granted hereunder, said action to be evidenced by City Council resolution. Notwithstanding anything herein to the contrary, the Property shall not be deemed dedicated to the public or otherwise public land. The City shall have no obligation and no right, other than as provided in this Agreement or under the ordinances, statutes and other laws, as applicable, under which the City operates, to maintain or administer the Property.

7. Duration. This Agreement shall constitute a covenant running with the land and shall be binding upon and inure to the benefit of the parties, and any and all of their successors and assigns.
8. Authority. The Owner covenants with the City that they are the fee owners of the Property as described above and have good right to create the covenants contained herein.
9. Attorney's Fees. If any action at law or in equity shall be brought by the City on account of any breach or default of this Agreement by the Owner, the City shall be entitled to recover from the Owner reasonable attorney's fees, the amount of which shall be fixed by the Court and shall be made a part of any judgment or decree rendered.

10. General Terms.

- a. RECITALS. The recitals to this Agreement are made a part hereof and incorporated herein by reference.
- b. VOLUNTARY AND KNOWING ACTION. The parties, by executing this Agreement, state that they have carefully read this Agreement and understand fully the contents thereof; that in executing this Agreement they voluntarily accept all terms described in this Agreement without duress, coercion, undue influence, or otherwise, and that they intend to be legally bound thereby.
- c. AUTHORIZED SIGNATORIES. The parties each represent and warrant to the other that (1) the persons signing this Agreement are authorized signatories for the entities represented, and (2) no further approvals, actions or ratifications are needed for the full enforceability of this Agreement against it; each party indemnifies and holds the other harmless against any breach of the foregoing representation and warranty.
- d. NOTICES. All communications, demands, notices, or objections permitted or required to be given or served under this Agreement shall be in writing and shall be deemed to have been duly given or served if delivered in person to the other party or its authorized agent or if deposited in the United States mail, postage prepaid, for mailing by certified or registered mail, and addressed to the other party to this Agreement, to the address set forth in this Agreement, or if to a party not a party to this Agreement, to the address designated by a party to this Agreement in the

foregoing manner. Any party may change its address by giving notice in writing, stating its new address, to any other party as provided in the foregoing manner. Commencing on the 10th day after the giving of such notice, such newly designated address shall be such address for the purpose of all communications, demands, notices, or objections permitted or required to be given or served under this Agreement.

- e. NOT PARTNERSHIP, JOINT VENTURE, OR FIDUCIARY RELATIONSHIP CREATED HEREBY. Nothing contained in this Agreement shall be interpreted as creating a partnership, joint venture, or relationship of principal and agent between the City and the Owner.
- f. CUMULATIVE RIGHTS. Except as otherwise expressly stated herein, no right or remedy herein conferred on or reserved to the City is intended to be exclusive of any other right or remedy hereby provided by law, but each shall be cumulative in, and in addition to, every other right or remedy given herein or hereafter existing at law, in equity, or by statute.
- g. COMPLIANCE WITH LAWS. Owner shall abide by all Federal, State and local laws, statutes, ordinances, rules and regulations now in effect or hereinafter adopted pertaining to this Agreement or to the Facilities, improvements, personal property, programs and staff for which the Owner is responsible.
- h. GOVERNING LAW. This Agreement shall be deemed to have been made and accepted in Rice County, Minnesota, and the laws of the State of Minnesota shall govern any interpretations or constructions of the Agreement without regard to its choice of law or conflict of laws principles. Northfield City Code, Chapter 22, Environment, Article VI, Surface Water Management, Division 2, Stormwater Management, is incorporated herein by reference, as amended.
- i. DATA PRACTICES. The parties acknowledge that this Agreement is subject to the requirements of Minnesota's Government Data Practices Act, Minnesota Statutes, Section 13.01 et seq.
- j. NO WAIVER. Any party's failure in any one or more instances to insist upon strict performance of any of the terms and conditions of this Agreement or to exercise any right herein conferred shall not be construed as a waiver or relinquishment of that right or of that party's right to assert or rely upon the terms and conditions of this Agreement. Any express waiver of a term of this Agreement shall not be binding and effective unless made in writing and properly executed by the waiving party.
- k. SEVERABILITY. The invalidity or unenforceability of any provision of this Agreement shall not affect the validity or enforceability of any other provision. Any invalid or unenforceable provision shall be deemed severed from this Agreement to the extent of its invalidity or unenforceability, and this

Agreement shall be construed and enforced as if the Agreement did not contain that particular provision to the extent of its invalidity or unenforceability.

1. HEADINGS AND CAPTIONS. Headings and captions contained in this Agreement are for convenience only and are not intended to alter any of the provisions of this Agreement and shall not be used for the interpretation of the validity of the Agreement or any provision hereof.
- m. SURVIVABILITY. All covenants, indemnities, guarantees, releases, representations and warranties by any party or parties, and any undischarged obligations of City and Owner arising prior to the expiration of this Agreement (whether by completion or earlier termination), shall survive such expiration.
- n. RECORDING. This Agreement shall bind the heirs, executors, administrators, assigns and successors of the parties. This Agreement shall be recorded by the City at the expense of the Owner within 30 days of full execution hereof.

[Remainder of page left intentionally blank.]

CITY OF NORTHFIELD

By: _____
Erica Zweifel, Its Mayor

Date: _____

By: _____
Lynette Peterson, Its City Clerk

Date: _____

COUNTY OF RICE)
) ss.
STATE OF MINNESOTA)

The foregoing instrument was acknowledged before me, a notary public in and for the above named County and State, on _____, 20____, by Erica Zweifel and Lynette Peterson, respectively the Mayor and City Clerk, on behalf of the City of Northfield, a municipal corporation under the laws of the State of Minnesota.

Notary Public

THIS INSTRUMENT WAS DRAFTED BY:

City of Northfield – Engineering Division
801 Washington Street
Northfield, MN 55057
507-645-3020

EXHIBIT A

Legal Description of Property
(See Following 6 Pages)

STORM WATER AGREEMENT DESCRIPTIONS

That part of the Northeast Quarter of Section 31, Township 112, Range 19, Rice County, Minnesota, described as commencing at the southeast corner of said Northeast Quarter; thence North 89 degrees 58 minutes 07 seconds West, assumed bearing, along the south line of said Northeast Quarter 2029.99 feet; thence North 00 degrees 01 minute 53 seconds East 460.31 feet to the point of beginning; thence North 00 degrees 44 minutes 35 seconds West 71.11 feet; thence North 88 degrees 41 minutes 31 seconds East 18.00 feet; thence South 00 degrees 44 minutes 35 seconds East 71.27 feet; thence South 89 degrees 15 minutes 25 seconds West 18.00 feet to the point of beginning.

And

That part of the Northeast Quarter of Section 31, Township 112, Range 19, Rice County, Minnesota, described as commencing at the southeast corner of said Northeast Quarter; thence North 89 degrees 58 minutes 07 seconds West, assumed bearing, along the south line of said Northeast Quarter 1907.88 feet; thence North 00 degrees 01 minute 53 seconds East 671.00 feet to the point of beginning; thence North 13 degrees 38 minutes 56 seconds West 10.80 feet; thence North 76 degrees 21 minutes 04 seconds East 33.49 feet; thence North 42 degrees 50 minutes 13 seconds East 5.21 feet; thence North 10 degrees 07 minutes 43 seconds East 22.71 feet; thence South 79 degrees 52 minutes 17 seconds East 16.54 feet; thence South 01 degree 00 minutes 03 seconds East 40.72 feet; thence South 88 degrees 59 minutes 57 seconds West 54.54 feet to the point of beginning.

And

That part of the Northeast Quarter of Section 31, Township 112, Range 19, Rice County, Minnesota, described as commencing at the southeast corner of said Northeast Quarter; thence North 89 degrees 58 minutes 07 seconds West, assumed bearing, along the south line of said Northeast Quarter 2134.28 feet; thence North 00 degrees 01 minute 53 seconds East 703.09 feet to the point of beginning; thence North 01 degree 18 minutes 31 seconds East 191.14 feet; thence South 88 degrees 41 minutes 29 seconds East 22.29 feet; thence South 06 degrees 43 minutes 03 seconds East 64.84 feet; thence South 00 degrees 05 minutes 42 seconds East 126.86 feet; thence North 88 degrees 41 minutes 29 seconds West 34.46 feet to the point of beginning.

And

That part of the Northeast Quarter of Section 31, Township 112, Range 19, Rice County, Minnesota, described as commencing at the southeast corner of said Northeast Quarter; thence North 89 degrees 58 minutes 07 seconds West, assumed bearing, along the south line of said Northeast Quarter 2062.29 feet; thence North 00 degrees 01 minute 53 seconds East a distance of 866.56 feet to the point of beginning; thence on a bearing of North 22.00 feet; thence South 89 degrees 42 minutes 37 seconds East 93.13 feet; thence on a bearing of South 22.00 feet; thence North 89 degrees 42 minutes 37 seconds West 93.13 feet to the point of beginning.

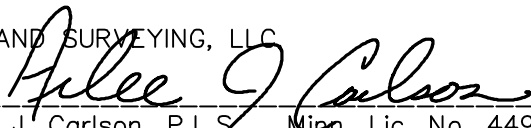
And

That part of the Northeast Quarter of Section 31, Township 112, Range 19, Rice County, Minnesota, described as commencing at the southeast corner of said Northeast Quarter; thence North 89 degrees 58 minutes 07 seconds West, assumed bearing, along the south line of said Northeast Quarter 2111.77 feet; thence North 00 degrees 01 minute 53 seconds East a distance of 1034.41 feet to the point of beginning; thence South 89 degrees 06 minutes 30 seconds West 78.40 feet; thence North 58 degrees 45 minutes 49 seconds East 94.28 feet; thence South 02 degrees 40 minutes 30 seconds West 47.72 feet to the point of beginning.

I hereby certify that this sketch, plan, or report was prepared by me or under my direct supervision and that I am a duly Licensed Land Surveyor under the laws of the State of Minnesota.

Dated this 10th day of July, 2025

SUNDE LAND SURVEYING, LLC

By: 
Arlee J. Carlson, P.L.S. Minn. Lic. No. 44900

SHEET 1 OF 6

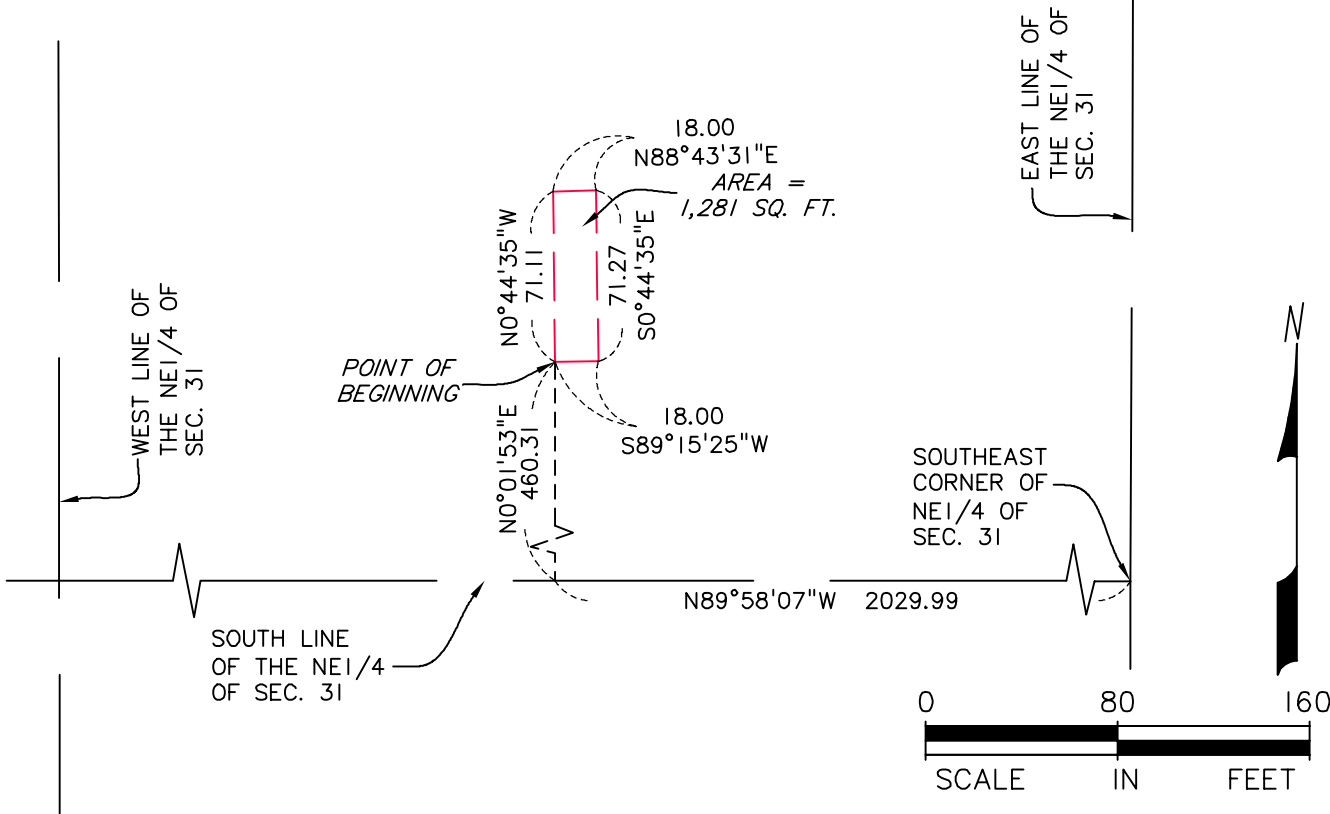
90-289-2025-B T.112, R.19, S.31
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SEDIMENTATION BASIN #1

NE 1/4 OF
SEC. 31, T. 112, R. 19



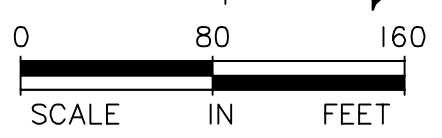
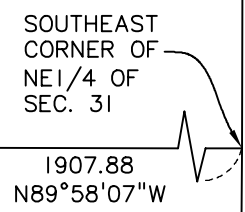
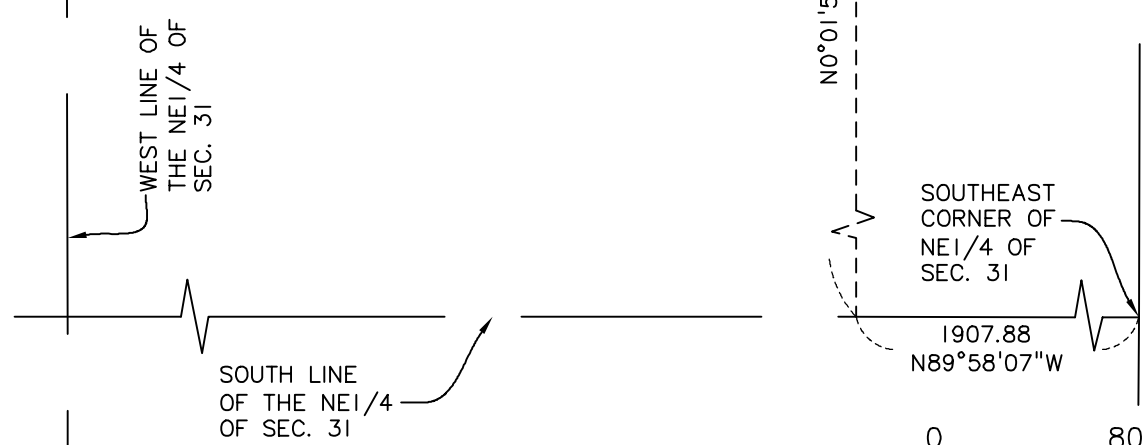
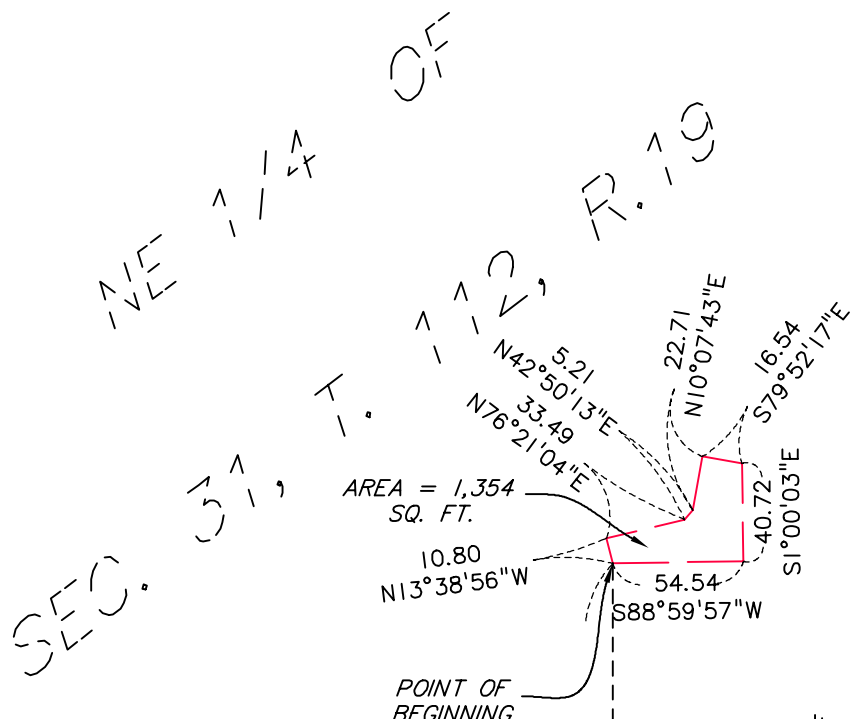
SHEET 2 OF 6

90-289-2025-B T.112, R.19, S.31
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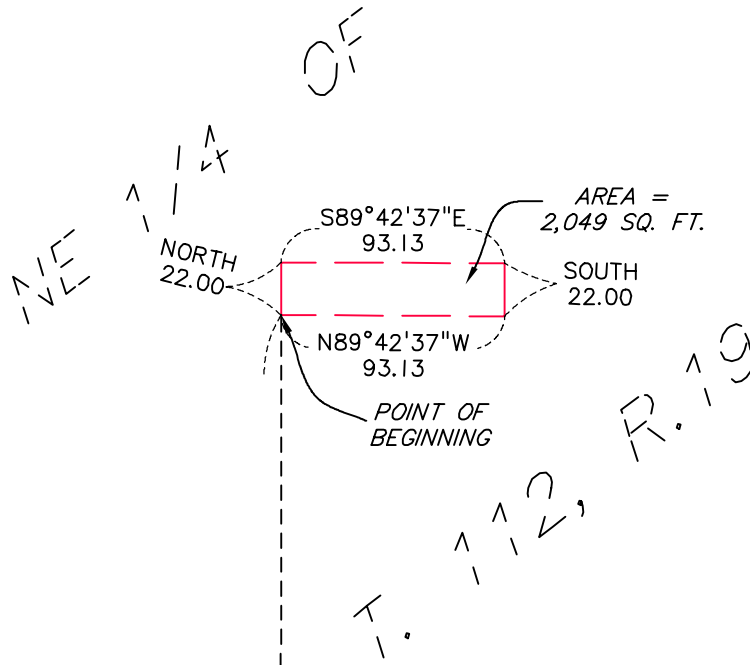


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SEDIMENTATION BASIN #2



SEDIMENTATION BASIN #4



SEC.

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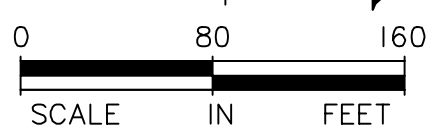
EAST LINE OF THE NE1/4 OF SEC. 31

WEST LINE OF THE NE1/4 OF SEC. 31

SOUTHEAST CORNER OF NE1/4 OF SEC. 31

N89°58'07\"/>

SOUTH LINE OF THE NE1/4 OF SEC. 31



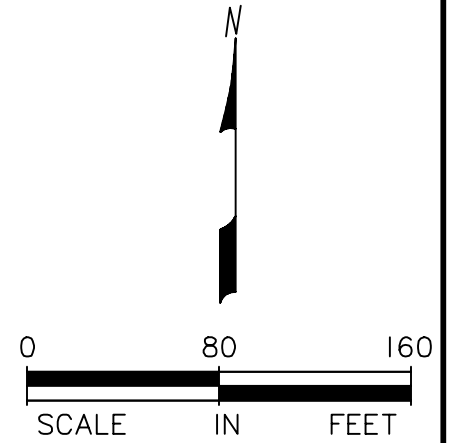
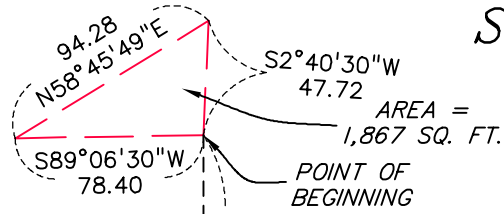
SHEET 5 OF 6



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90-289-2025-B T.112, R.19, S.31
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SEDIMENTATION BASIN #5



SEC. 31, T. 112, R. 19
NE 1/4 OF

N0°01'53"E 1034.41

WEST LINE OF THE NE1/4 OF SEC. 31

EAST LINE OF THE NE1/4 OF SEC. 31

SOUTHEAST CORNER OF NE1/4 OF SEC. 31

SOUTH LINE OF THE NE1/4 OF SEC. 31

N89°58'07"W 2111.77

SHEET 6 OF 6

90-289-2025-B T.112, R.19, S.31
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EXHIBIT B

Erosion and Sediment Control Plan (C100 – C102)

Jun 12, 2025 - 11:58am
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LEGEND

	RIGHT OF WAY & PROPERTY LINE
	APPROXIMATE CONSTRUCTION LIMITS
	EXISTING CONTOURS
	PROPOSED CONTOURS
	SILT FENCE OR ROCK FILTER LOG SEE DETAIL 1/C700 OR 2/C700
	INLET PROTECTION SEE DETAIL 3/C700
	CONSTRUCTION ENTRANCE SEE DETAIL 4/C700
	TREE PROTECTION SEE DETAIL 5/C700
	RAIN GUARDIAN TURRET SEE DETAIL 5/C702
	BEEHIVE INLET SEE DETAIL 4/C702
	RIPRAP SEE DETAIL 6/C702

- SEDIMENT AND EROSION CONTROL NOTES:**
- CONTRACTOR SHALL BE RESPONSIBLE FOR OBTAINING AND FOLLOW ALL REQUIREMENTS OF THE CONSTRUCTION GENERAL PERMIT AND SWPPP NARRATIVE.
 - SEE SWPPP NARRATIVE FOR FURTHER INFORMATION AND DIRECTION ON EROSION CONTROL MEASURES AND MONITORING.
 - TEMPORARY BMPs SHALL BE INSTALLED PRIOR TO ANY LAND DISTURBING ACTIVITIES AND SHALL REMAIN IN PLACE UNTIL FINAL STABILIZATION.
 - INSTALL PERIMETER CONTROL AS SHOWN AND AS REQUIRED BASED ON CONTRACTOR'S MEANS AND METHODS OF CONSTRUCTION. PERIMETER CONTROL IS SHOWN AT THE EDGE OF CONSTRUCTION FOR CLARITY, BUT SHALL BE INSTALLED AT THE MOST APPROPRIATE LOCATION TO SUPPORT THE CONSTRUCTION ACTIVITIES.
 - REMOVE ALL TRACKED SOILS AND SEDIMENT TRACKED OR OTHERWISE DEPOSITED OFFSITE AT THE END OF EACH WORKING DAY OR MORE OFTEN AS DIRECTED BY THE OWNER'S DESIGNATED REPRESENTATIVE.
 - STOCKPILES SHALL BE PLACED NO LESS THAN 25 FEET FROM ANY PRIVATE OR PUBLIC ROADWAYS (EXCLUDING SITE ACCESS). STABILIZE STOCKPILES IF REMAINING UNWORKED FOR MORE THAN 7 DAYS.
 - CONTRACTOR SHALL ESTABLISH CONCRETE WASHOUT PROCEDURES FOR RED-MIX TRUCKS, MANUAL MIXING AND HAND TOOLS.
 - STRAW BALES ARE NOT ALLOWED ON SITE IN ANY CAPACITY.
 - GROUNDWATER DEWATERING IS NOT ANTICIPATED. WEATHER RELATED DEWATERING SHALL BE TREATED BY SEDIMENT BASIN OR SILT SACK PRIOR TO DISCHARGE TO SURFACE WATER OR LEAVING THE SITE.
 - ALL PAVEMENT SAWCUTTING SHALL INCLUDE SLURRY VACUUMING. SLURRY SHALL BE DISPOSED OF IN A DEDICATED SLURRY DUMPSTER. REMOVE DUMPSTER FROM SITE AND DISPOSE OF IN A LAWFUL MANNER.
 - INSTALL PERIMETER CONTROL AROUND ALL STOCKPILES. THE TYPE OF PERIMETER CONTROL SHALL BE COMMENSURATE WITH THE SIZE AND MATERIAL OF THE STOCKPILE.
 - INSTALL CONSTRUCTION SITE EXIT CONTROL PRIOR TO LAND DISTURBING ACTIVITIES.
 - REMOVE ALL TEMPORARY EROSION CONTROL BMPs AFTER SITE STABILIZATION HAS BEEN ACHIEVED AND APPROVED BY AUTHORITY HAVING JURISDICTION.
 - PROVIDE TEMPORARY COVER SEEDING ON ANY AREAS NOT WORKED FOR 21 DAYS ON FLATTER THAN 10:1 SLOPES, 14 DAYS ON 10:1 TO 3:1 SLOPES AND 7 DAYS ON STEEPER THAN 3:1 SLOPES.

Carleton
CARLETON COLLEGE
 ONE NORTH COLLEGE STREET
 NORTHFIELD, MN 55057

TKDA

Terra
 CONSTRUCTION

THREE OAKS DRIVE RECONSTRUCTION

ALL CONTRACTORS AND SUBCONTRACTORS SHALL VERIFY ALL DIMENSIONS BY MEASUREMENT AT THE BUILDING AND/OR SITE

0 1
 BAR IS ONE INCH ON ORIGINAL DRAWING. IF NOT ONE INCH ON THIS DRAWING ADJUST SCALES ACCORDINGLY.

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2	2025-06-12	PR 01	
1	2025-04-07	ISSUED FOR BIDDING & PERMITTING	

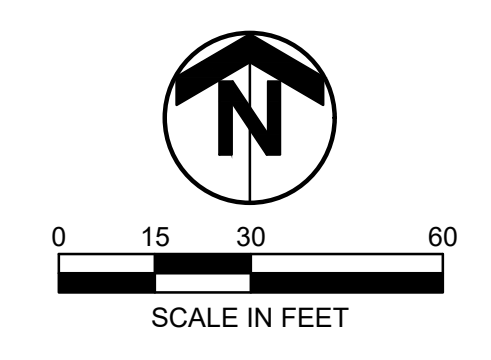
I HEREBY CERTIFY THAT THIS PLAN, SPECIFICATION, OR REPORT WAS PREPARED BY ME OR UNDER MY DIRECT SUPERVISION AND THAT I AM A DULY LICENSED PROFESSIONAL ENGINEER UNDER THE LAWS OF THE STATE OF MN.

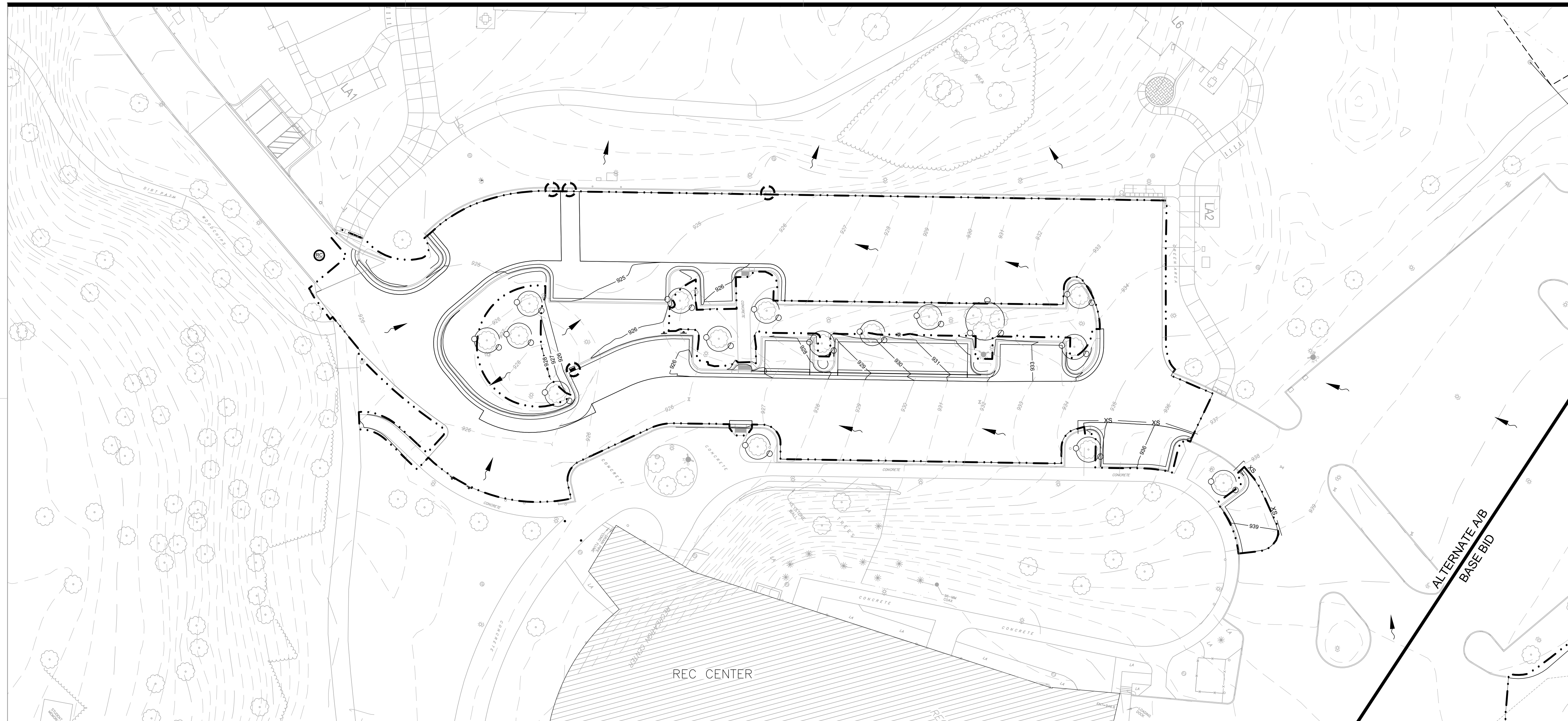
SIGNATURE: *Amanda Kieffer*
 PRINTED NAME: AMANDA KIEFFER
 LIC. NO.: 56216 DATE: 2025-04-07

DESIGNED	DRAWN	CHECKED	BPK
AMK	TTK		

EROSION AND SEDIMENT CONTROL PLAN - SOUTH

C101
 21157.000





SEE C101 FOR CONTINUATION

ALL CONTRACTORS AND SUBCONTRACTORS SHALL VERIFY ALL DIMENSIONS BY MEASUREMENT AT THE BUILDING AND/OR SITE



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SEDIMENT AND EROSION CONTROL NOTES:

1. CONTRACTOR SHALL BE RESPONSIBLE FOR OBTAINING AND FOLLOW ALL REQUIREMENTS OF THE CONSTRUCTION GENERAL PERMIT AND SWPPP NARRATIVE.
2. SEE SWPPP NARRATIVE FOR FURTHER INFORMATION AND DIRECTION ON EROSION CONTROL MEASURES AND MONITORING.
3. TEMPORARY BMPs SHALL BE INSTALLED PRIOR TO ANY LAND DISTURBING ACTIVITIES AND SHALL REMAIN IN PLACE UNTIL FINAL STABILIZATION.
4. INSTALL PERIMETER CONTROL AS SHOWN AND AS REQUIRED BASED ON CONTRACTORS MEANS AND METHODS OF CONSTRUCTION. PERIMETER CONTROL IS SHOWN AT THE EDGE OF CONSTRUCTION FOR CLARITY, BUT SHALL BE INSTALLED AT THE MOST APPROPRIATE LOCATION TO SUPPORT THE CONSTRUCTION ACTIVITIES.
5. REMOVE ALL TRACKED SOILS AND SEDIMENT TRACKED OR OTHERWISE DEPOSITED OFFSITE AT THE END OF EACH WORKING DAY OR MORE OFTEN AS DIRECTED BY THE OWNER'S DESIGNATED REPRESENTATIVE.
6. STOCKPILES SHALL BE PLACED NO LESS THAN 25 FEET FROM ANY PRIVATE OR PUBLIC ROADWAYS (EXCLUDING SITE ACCESS). STABILIZE STOCKPILES IF REMAINING UNWORKED FOR MORE THAN 7 DAYS.
7. CONTRACTOR SHALL ESTABLISH CONCRETE WASHOUT PROCEDURES FOR RED-MIX TRUCKS, MANUAL MIXING AND HAND TOOLS.
8. STRAW BALES ARE NOT ALLOWED ON SITE IN ANY CAPACITY.
9. GROUNDWATER DEWATERING IS NOT ANTICIPATED. WEATHER RELATED DEWATERING SHALL BE TREATED BY SEDIMENT BASIN OR SILT SACK PRIOR TO DISCHARGE TO SURFACE WATER OR LEAVING THE SITE.
10. ALL PAVEMENT SAWCUTTING SHALL INCLUDE SLURRY VACUUMING. SLURRY SHALL BE DISPOSED OF IN A DEDICATED SLURRY DUMPSTER. REMOVE DUMPSTER FROM SITE AND DISPOSE OF IN A LAWFUL MANNER.
11. INSTALL PERIMETER CONTROL AROUND ALL STOCKPILES. THE TYPE OF PERIMETER CONTROL SHALL BE COMMENSURATE WITH THE SIZE AND MATERIAL OF THE STOCKPILE.
12. INSTALL CONSTRUCTION SITE EXIT CONTROL PRIOR TO LAND DISTURBING ACTIVITIES.
13. REMOVE ALL TEMPORARY EROSION CONTROL BMPs AFTER SITE STABILIZATION HAS BEEN ACHIEVED AND APPROVED BY AUTHORITY HAVING JURISDICTION.
14. PROVIDE TEMPORARY COVER SEEDING ON ANY AREAS NOT WORKED FOR 21 DAYS ON FLATTER THAN 10:1 SLOPES, 14 DAYS ON 10:1 TO 3:1 SLOPES AND 7 DAYS ON STEEPER THAN 3:1 SLOPES.




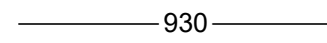





ALTERNATE A:

INCLUDES THE REMOVAL OF EXISTING PAVEMENT, UTILITIES, AND LANDSCAPING. PROPOSED PAVEMENT, CURB AND GUTTER, ADA RAMPS, NEW SIGNAGE, STORM SEWER, LANDSCAPING, AND A MILL AND OVERLAY OF PAVEMENT TO REMAIN.

ALTERNATE B:

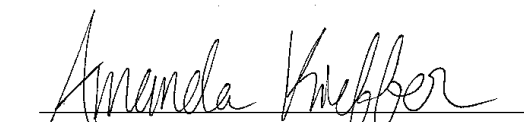
INCLUDES A MILL AND OVERLAY OF EXISTING PAVEMENT WITH NO ALTERATIONS TO THE SHAPE OF THE PARKING LOT.

LEGEND

-  RIGHT OF WAY & PROPERTY LINE
-  APPROXIMATE CONSTRUCTION LIMITS
-  EXISTING CONTOURS
-  PROPOSED CONTOURS
-  SILT FENCE OR ROCK FILTER LOG
SEE DETAIL 1/C700 OR 2/C700
-  INLET PROTECTION
SEE DETAIL 3/C700
-  CONSTRUCTION ENTRANCE
SEE DETAIL 4/C700
-  TREE PROTECTION
SEE DETAIL 5/C700
-  CURB INLET
SEE DETAIL 3/C702

NO.	DATE	ISSUED FOR BIDDING & PERMITTING	ISSUE RECORD
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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 MN.

SIGNATURE: 
PRINTED NAME: AMANDA KIEFFER
LIC. NO.: 56216 DATE: 2025-04-07

DESIGNED	DRAWN	CHECKED	BPK
AMK	TTK		

**EROSION AND SEDIMENT
CONTROL PLAN - REC
CENTER**

C102

21157.000

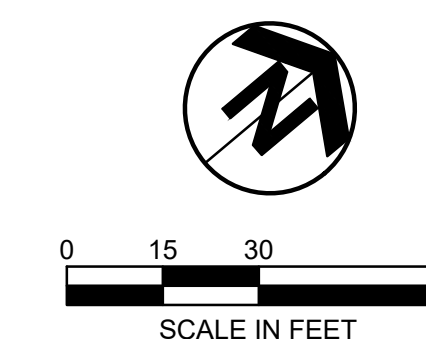


EXHIBIT C

SWPPP Narrative (C103 – C104)

STORM WATER POLLUTION PREVENTION PLAN (SWPPP) NARRATIVE

PROJECT DESCRIPTION/LOCATION

THE PROJECT IS LOCATED AT THE NORTHERN LIMITS OF THE CARLETON COLLEGE CAMPUS IN NORTHFIELD, MINNESOTA BOUNDED BY HIGHWAY 19 TO THE NORTH AND EXTENDING SOUTH ALONG THREE OAKS DRIVE TO THE RECREATION CENTER. THE EXISTING GRAVEL PARKING LOTS AND ROADWAY WILL BE PAVED WITH BITUMINOUS. THE REC. CENTER PARKING LOT WILL BE RECONFIGURED.

THE PLANNED SCOPE OF THE PROJECT INCLUDES: GRADING, SURFACE STORMWATER MANAGEMENT, VEGETATION ESTABLISHMENT, BITUMINOUS AND CONCRETE PAVING.

FOR THE SELECTION OF EROSION AND SEDIMENT CONTROLS FOR THE SITE, THE SWPPP CONSIDERS FACTORS SUCH AS PRECIPITATION FREQUENCY, INTENSITY, AND DURATION, THE NATURE OF RUNOFF/RUN-ON, AND RANGE OF ANTICIPATED SOIL PARTICLES.

THE SWPPP MUST BE AMENDED TO DOCUMENT ANY CHANGES TO EROSION AND SEDIMENT CONTROLS, METHODS OR PRACTICES. THESE AMENDMENTS MUST BE TIMELY, AND AN UPDATED SWPPP NEEDS TO BE KEPT AT THE SITE ENTRANCE AND/OR JOB TRAILER AT ALL TIMES.

RESPONSIBILITIES

PROVIDE A CERTIFIED EROSION CONTROL SUPERVISOR PER MNDOT SPECIFICATION 2573.3.A.1. EROSION CONTROL SUPERVISOR WILL OVERSEE IMPLEMENTATION OF SWPPP AND INSTALLATION, INSPECTION, AND MAINTENANCE OF THE EROSION PREVENTION AND SEDIMENT CONTROL BMPs BEFORE, DURING AND AFTER CONSTRUCTION UNTIL FINAL STABILIZATION HAS BEEN ESTABLISHED.

PROVIDE AT LEAST ONE CERTIFIED INSTALLER PER MNDOT SPECIFICATION 2573.3.A.2. FOR EACH CONTRACTOR OR SUBCONTRACTOR THAT PLACES THE PRODUCTS LISTED IN MNDOT SPECIFICATION SECTION 2573.3.A.2.

THE CONTRACTOR MUST PROVIDE PROOF OF TRAINING CERTIFICATION FOR EROSION CONTROL SUPERVISOR AND EROSION CONTROL INSTALLERS PRIOR TO BEGINNING THE WORK

ANY CHANGES TO THE SWPPP MUST BE DOCUMENTED BY THE EROSION CONTROL SUPERVISOR, APPROVED BY THE ENGINEER AND ADDED TO THE SWPPP.

CHAIN OF RESPONSIBILITY

THE CONTRACTOR IS RESPONSIBLE TO COMPLY WITH ALL ASPECTS OF THE CONSTRUCTION GENERAL STORMWATER PERMIT (NPDES) AND THE CITY OF NORTHFIELD PERMIT AT ALL TIMES UNTIL THE NOTICE OF TERMINATIONS (NOT) HAVE BEEN FILED. THE EROSION CONTROL SUPERVISOR WILL ENSURE THAT THE CONTRACTOR FULFILLS THEIR DUTIES.

LAND FEATURE CHANGES

TOTAL DISTURBED AREA	3.39 ACRES
EXISTING IMPERVIOUS SURFACE AREA	2.68 ACRES
PROPOSED IMPERVIOUS SURFACE AREA	2.62 ACRES
NEW AND/OR RECONSTRUCTED IMPERVIOUS AREA	1.88 ACRES

SOIL TYPES

SOIL TYPES ARE GENERALLY CLASSIFIED AS SILTY AND GRAVELLY SAND (SP, SP-SM). REFER TO GEOTECHNICAL INVESTIGATION REPORT.

ENVIRONMENTAL REVIEW

THERE ARE NO STORMWATER MITIGATION MEASURES REQUIRED AS A RESULT OF AN ENVIRONMENTAL, ARCHEOLOGICAL OR AGENCY REVIEW.

THIS PROJECT IS NOT LOCATED IN A WELL HEAD PROTECTION AREA.

THIS PROJECT IS NOT LOCATED IN A DRINKING WATER SUPPLY MANAGEMENT AREA (DWSMA).

THIS PROJECT IS NOT KNOWN TO BE LOCATED IN A KARST AREA. REFER TO STORMWATER MANAGEMENT REPORT FOR DOCUMENTATION.

THIS PROJECT IS NOT LOCATED IN AN EMERGENCY RESPONSE AREA (ERA) PER DEPARTMENT OF HEALTH.

WATER RELATED PERMITS

AGENCY	TYPE OF PERMIT
CITY OF NORTHFIELD	GRADING, SEDIMENT AND EROSION CONTROL PERMIT
MPCA	CONSTRUCTION STORMWATER PERMIT (MNR100001) (NPDES)

READ AND REVIEW ALL PERMITS FOR SPECIAL CONDITIONS THAT WILL AFFECT CONSTRUCTION OF THE PROJECT.

IF IT BECOMES NECESSARY TO DISTURB AREAS OUTSIDE OF THE CONSTRUCTION LIMITS, OPERATIONS SHOULD CEASE AND DETERMINATION MADE IF ADDITIONAL PERMITS ARE NEEDED OR EXISTING PERMITS NEED TO BE MODIFIED.

TEMPORARY DEWATERING ACTIVITIES MAY BE REQUIRED FOR SITE GRADING AND UTILITY WORK. CONTRACTOR IS RESPONSIBLE FOR OBTAINING THE PERMIT. SUBMIT A SITE MANAGEMENT PLAN TO THE ENGINEER FOR APPROVAL PRIOR TO COMMENCING WORK.

SPECIAL AND IMPAIRED WATERS

THE FOLLOWING SPECIAL OR IMPAIRED WATERS ARE LOCATED WITHIN ONE MILE (AERIAL RADIUS) OF THE PROJECT LIMITS.

WATERBODY NAME	IMPAIRED(S) OR SPECIAL STATUS
CANNON RIVER	SPECIAL WATER, IMPAIRED FOR TURBIDITY

AREAS OF ENVIRONMENTAL SENSITIVITY (AES)

THERE ARE NO WETLANDS WITHIN AND NEAR THE PROJECT BOUNDARY. EXISTING STORMWATER FACILITIES CONSISTING OF STORM SEWER ARE SHOWN ON THE EXISTING UTILITY PLANS.

PROJECT ORGANIZATION CONTACTS		PHONE
PROJECT ENGINEER	AMANDA M. KIEFFER	651-895-9601
SWPPP DESIGNER CERTIFIED IN DESIGN OF CONSTRUCTION SWPPP	JONATHAN N. LIBBY	651-726-7946
CITY OF NORTHFIELD (WATER QUALITY TECHNICIAN)	JAMES MCDERMOTT	507-645-3071
CARLETON COLLEGE (SWPPP CONTACT)		
EROSION CONTROL SUPERVISOR (CONTRACTOR TO COMPLETE)		
MINNESOTA POLLUTION CONTROL AGENCY STORMWATER HOTLINE	651-757-2119 OR 800-657-3804	
MPCA DUTY OFFICER 24 HR EMERGENCY NOTIFICATION	651-649-5451 OR 800-422-0798	

INSPECTIONS

INSPECT THE ENTIRE CONSTRUCTION SITE A MINIMUM OF ONCE EVERY SEVEN DAYS DURING ACTIVE CONSTRUCTION AND WITHIN 24 HOURS AFTER A RAINFALL EVENT GREATER THAN 0.5 INCHES IN 24 HOURS. INSPECT AND MAINTAIN ALL TEMPORARY AND PERMANENT WATER QUALITY MANAGEMENT, EROSION PREVENTION AND SEDIMENT CONTROL BMPs, SURFACE WATERS AND CONSTRUCTION SITE EXITS UNTIL ALL CONSTRUCTION IS COMPLETE AND THE SITE HAS UNDERGONE FINAL STABILIZATION. RECORD ALL INSPECTIONS AND MAINTENANCE ACTIVITIES IN WRITING WITHIN 24 HOURS. SUBMIT INSPECTION REPORTS IN A FORMAT THAT IS ACCEPTABLE TO THE PROJECT ENGINEER. INSPECTION AND MAINTENANCE RECORDS SHOULD INCLUDE, AT A MINIMUM, THE FOLLOWING INFORMATION:

- DATE AND TIME OF INSPECTION
- NAME OF PERSON(S) CONDUCTING INSPECTIONS
- FINDINGS OF INSPECTIONS, INCLUDING SPECIFIC LOCATION WHERE CORRECTIVE ACTIONS ARE NEEDED
- CORRECTIVE ACTIONS TAKEN (INCLUDING DATES, TIMES, AND PARTY COMPLETING MAINTENANCE ACTIVITIES)
- DATE AND AMOUNT OF RAINFALL EVENTS GREATER THAN 0.5 INCH IN 24 HOURS
- RAINFALL AMOUNTS MUST BE OBTAINED BY A PROPERLY MAINTAINED RAIN GAUGE INSTALLED ONSITE, OR BY A WEATHER STATION THAT IS WITHIN ONE MILE, OR BY A WEATHER REPORTING SYSTEM
- OBSERVE ANY DISCHARGE THAT MAY BE OCCURRING DURING THE INSPECTIONS - INCLUDE DESCRIPTION AND PHOTOS IN REPORT

PIPE AND STRUCTURE NOTES

- SIZE AND ELEVATION OF STORM SEWER PIPES AND CATCH BASINS HAVE BEEN SPECIFICALLY DESIGNED TO CONFORM TO CITY OF NORTHFIELD AND MPCA DESIGN STANDARDS AND PERMIT REQUIREMENTS. THE DESIGN COMPUTATIONS ARE ON FILE WITH THE ENGINEER. CHANGING THESE ITEMS OR THE DIRECTION OF FLOW FROM WHAT IS SHOWN ON THE PLANS MAY CAUSE PROBLEMS OFF THE PROJECT AND COULD MEAN THE PROJECT IS OUT OF COMPLIANCE WITH APPROVED DRAINAGE PERMITS. ANY CHANGES OF THE DRAINAGE SYSTEM MUST BE APPROVED BY THE ENGINEER.
- SUBSURFACE DRAINAGE TILES DAMAGED DURING CONSTRUCTION SHALL BE REPAIRED, REPLACED OR REROUTED, AND CONNECTED TO THE EXISTING TILE OR DRAINAGE SYSTEM TO ENSURE THAT EXISTING UPLAND DRAINAGE IS PERPETUATED. THIS SHALL BE DONE TO THE APPROVAL AND SATISFACTION OF THE ENGINEER.

EROSION AND SEDIMENT CONTROL MEASURES

AREA	TIME FRAME
ESTABLISH SEDIMENT CONTROL DEVICES ON ALL DOWN GRADIENT PERIMETERS AND UPGRADIENT OF ANY BUFFER ZONES	BEFORE ANY UP GRADIENT LAND DISTURBING ACTIVITIES BEGIN
REPAIR, REPLACE OR SUPPLEMENT PERIMETER CONTROL BMPs	WHEN THEY BECOME NONFUNCTIONAL, OR WHEN SEDIMENT ACCUMULATES TO HALF THE HEIGHT AND/OR DEPTH OF THE BMP BY THE END OF THE NEXT BUSINESS DAY AFTER DISCOVERY
REPLACE, REPAIR OR SUPPLEMENT ALL NONFUNCTIONAL BMPs	BY THE END OF THE NEXT BUSINESS DAY AFTER DISCOVERY
REPAIR, REPLACE, OR SUPPLEMENT INLET PROTECTION BMPs	WHEN THEY BECOME NONFUNCTIONAL, OR WHEN SEDIMENT ACCUMULATES TO HALF THE HEIGHT AND/OR DEPTH OF THE BMP BY THE END OF THE NEXT BUSINESS DAY AFTER DISCOVERY
REMOVE TRACKED SEDIMENT FROM PAVED SURFACES BOTH ON AND OFF SITE (LIGHTLY WET PRIOR TO SWEEPING)	WITHIN 24 HOURS OF DISCOVERY
REMOVE ALL DELTAS AND SEDIMENT DEPOSITED IN SURFACE WATERS AND RESTABILIZE	WITHIN 7 DAYS OF DISCOVERY

- PROVIDE PERIMETER CONTROL AROUND ALL STOCKPILES AND DO NOT PLACE THEM IN NATURAL BUFFER AREAS, SURFACE WATERS OR STORMWATER CONVEYANCES. TOPSOIL BERMS MUST BE STABILIZED IN ORDER TO BE CONSIDERED PERIMETER CONTROL BMPs.
- PROTECT STORM SEWER INLETS AT ALL TIMES WITH THE APPROPRIATE INLET PROTECTION BMP AND PROVIDE EMERGENCY OVERFLOW CAPABILITIES. SILT FENCE PLACED IN THE INLET GRATE IS NOT AN ACCEPTABLE INLET PROTECTION BMP FOR GRADING OPERATIONS.
- PLACE AND MAINTAIN CONSTRUCTION EXITS OF SUFFICIENT SIZE TO PREVENT TRACKING OF SEDIMENT ONTO PAVED SURFACES BOTH ON AND OFF THE PROJECT SITE. REGULAR STREET SWEEPING IS NOT AN ACCEPTABLE ALTERNATIVE TO PROPER CONSTRUCTION EXIT INSTALLATION AND MAINTENANCE.
- PROVIDE SCOUR PROTECTION AT OUTFALL OF DEWATERING ACTIVITIES. PROVIDE STABILIZATION IN TRENCHES CUT FOR DEWATERING OR SITE DRAINING PURPOSES.
- PREPARE AND SUBMIT A SITE MANAGEMENT PLAN AND CONTACT ALL APPROPRIATE AUTHORITIES PRIOR TO WORKING IN SURFACE WATERS.
- MAINTAIN ALL BMPs UNTIL WORK HAS BEEN COMPLETED, SITE HAS GONE UNDER FINAL STABILIZATION FOR PERMIT TERMINATION, AND THE NOTICE OF TERMINATION (NOT) HAS BEEN SUBMITTED TO THE MPCA.
- THIS SWPPP PLAN HAS TAKEN INTO ACCOUNT PRECIPITATION AMOUNTS, FREQUENCY, DURATION, NATURE OF THE STORMWATER RUNOFF AND RUNON ETC. IN THE SELECTION OF EROSION AND SEDIMENT CONTROLS LISTED.



CARLETON COLLEGE

ONE NORTH COLLEGE STREET
NORTHFIELD, MN 55057



THREE OAKS
DRIVE
RECONSTRUCTION

ALL CONTRACTORS AND SUBCONTRACTORS SHALL VERIFY ALL DIMENSIONS BY MEASUREMENT AT THE BUILDING AND/OR SITE



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SIGNATURE:
PRINTED NAME: AMANDA KIEFFER
LIC. NO.: 56216
DATE: 2025-04-07

DESIGNED	DRAWN	CHECKED
AMK	TTK	BPK

SWPPP NARRATIVE

C103

21157.000

STORM WATER POLLUTION PREVENTION PLAN (SWPPP) NARRATIVE (CONTINUED)

STABILIZATION

AREA	TIME FRAME	NOTES
LAST 200 LINEAL FEET OF DRAINAGE DITCH OR SWALE	WITHIN 24 HOURS OF CONNECTION TO SURFACE WATER OR PROPERTY EDGE	2A, 3A
REMAINING PORTIONS OF DRAINAGE DITCH OR SWALE	7 DAYS	3A
PIPE AND CULVERT OUTLETS	24 HOURS	
EXPOSED SOILS AND STOCKPILES	7 DAYS	1A
WHEN CONSTRUCTION HAS TEMP. OR PERM. CEASED	INITIATE IMMEDIATELY	

- TEMPORARY SOIL STOCKPILES WITHOUT SIGNIFICANT CLAY OR SILT AND STOCKPILED AND CONSTRUCTED ROAD BASE ARE EXEMPT FROM THE STABILIZATION REQUIREMENT.
- STABILIZE WETTED PERIMETER OF DITCH (I.E. WHERE THE DITCH GETS WET).
- APPLICATION OF MULCH, HYDROMULCH (SLOPE>2%), DISC ANCHORED MULCH (SLOPE>2%), TACKIFIER AND POLYACRYLAMIDE ARE NOT ACCEPTABLE STABILIZATION METHODS IN DITCHES AND SWALES.
- TEMPORARY OR PERMANENT DITCHES OR SWALES THAT ARE BEING USED AS A SEDIMENT CONTAINMENT SYSTEM DURING CONSTRUCTION MUST BE STABILIZED WITHIN 24 HOURS AFTER NO LONGER BEING USED AS A SEDIMENT CONTAINMENT SYSTEM.

ESTIMATED QUANTITIES FOR EROSION PREVENTION AND SEDIMENT CONTROL

ITEM	UNIT	EST. QTY	MNDOT SPEC.	NOTES
SILT FENCE	LIN. FT	1384	3886	INCLUDES MAINTENANCE
INLET PROTECTION	EA	10	3891	INCLUDES MAINTENANCE
ROCK CONSTRUCTION ENTRANCE	EA	2	3891	INCLUDES MAINTENANCE
EROSION CONTROL BLANKET	SQ. FT	0	3885	INCLUDES MAINTENANCE

QUANTITIES PROVIDED FOR INFORMATIONAL PURPOSES ONLY AS REQUIRED BY THE SWPPP

MATERIAL STORAGE, WASTE MANAGEMENT, FUELING AND DUST CONTROL

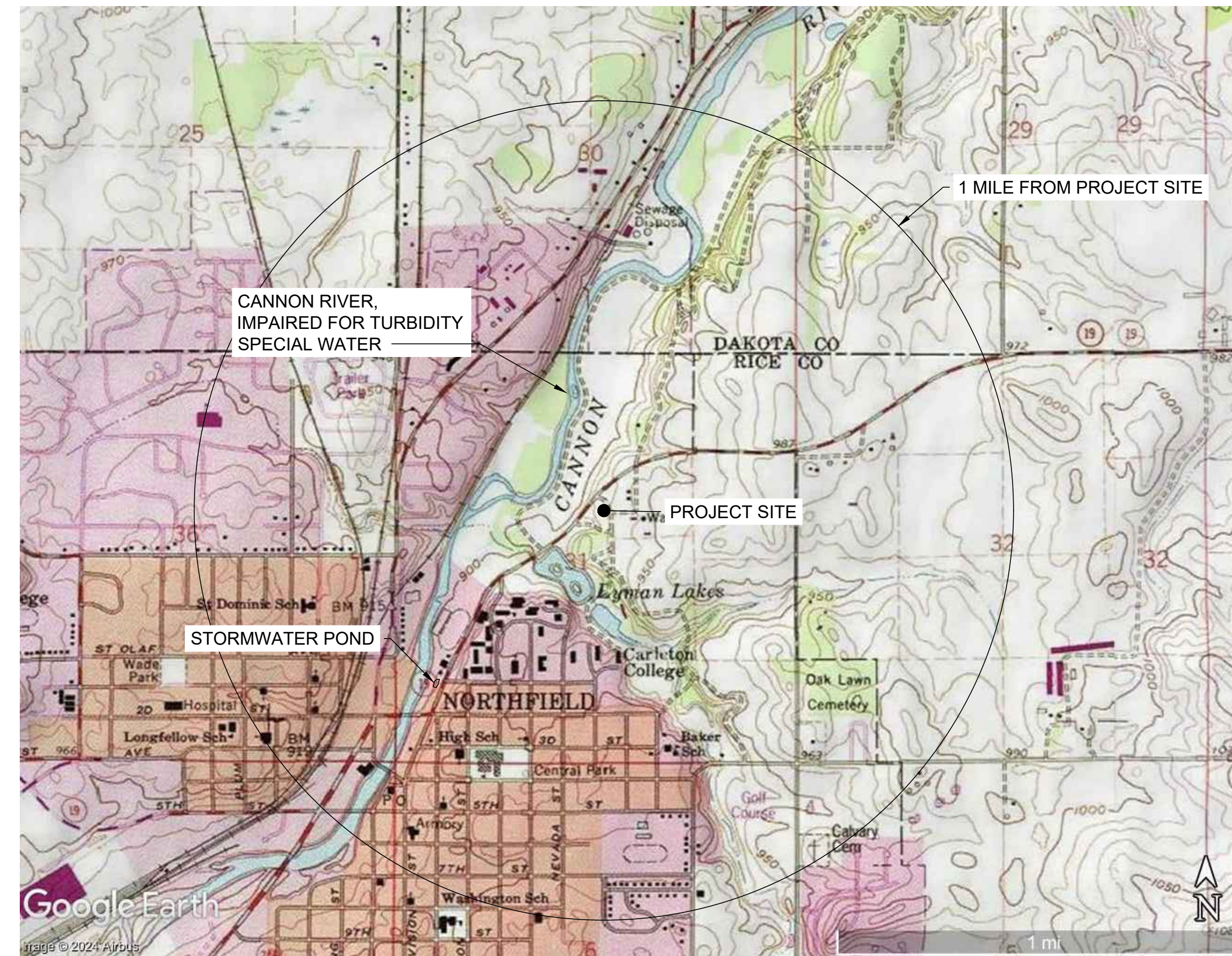
- PROVIDE A SPILL KIT AT EACH WORK LOCATION ON THE SITE. ENSURE ALL SPILLS ARE CLEANED UP IMMEDIATELY.
- STORE ALL LIQUID CHEMICALS UNDER COVER WITH SECONDARY CONTAINMENT. CREATE AND FOLLOW A WRITTEN DISPOSAL PLAN FOR ALL WASTE MATERIALS. STORE, COLLECT AND DISPOSE OF ALL SOLID WASTE.
- FUEL AND MAINTAIN VEHICLES IN A DESIGNATED CONTAINED AREA WHENEVER FEASIBLE. USE DRIP PANS OR ABSORBENT MATERIALS TO PREVENT SPILLS OR LEAKED CHEMICALS FROM DISCHARGING TO SURFACE WATER OR STORMWATER CONVEYANCES.
- PROVIDE EFFECTIVE CONTAINMENT FOR ALL LIQUID AND SOLID WASTES GENERATED BY WASHOUT OF CONCRETE, STUCCO, PAINT, FORM RELEASE OILS, CURING COMPOUNDS AND OTHER CONSTRUCTION MATERIALS. LIQUID AND SOLID WASHOUT WASTES MUST NOT CONTACT THE GROUND. DESIGN THE CONTAINMENT SO THAT IT DOES NOT RESULT IN RUNOFF FROM THE WASHOUT OPERATIONS OR CONTAINMENT AREA.
- USE METHODS AND OPERATIONAL PROCEDURES THAT PREVENT DISCHARGE OR PLACEMENT OF BITUMINOUS GRINDINGS, CUTTINGS, MILLINGS, AND OTHER BITUMINOUS WASTES FROM AREAS OF EXISTING OR FUTURE VEGETATED SOILS AND FROM ALL WATER CONVEYANCE SYSTEMS, INCLUDING INLETS, DITCHES AND CURB FLOW LINES.
- USE METHODS AND OPERATIONAL PROCEDURES THAT PREVENT CONCRETE DUST, STREET SWEEPING DUST, SAWCUT SLURRY, PLANING WASTE, CONCRETE WASH OUT, AND OTHER CONCRETE WASTES FROM LEAVING MNDOT RIGHT OF WAY, DEPOSITING IN EXISTING OR FUTURE VEGETATED AREAS, AND FROM ENTERING STORMWATER CONVEYANCE SYSTEMS, INCLUDING INLETS, DITCHES AND CURB FLOW LINES.
- LIMIT EXTERIOR VEHICLE AND EQUIPMENT WASHING TO A DEFINED AREA OF THE SITE.
- PORTABLE TOILETS MUST BE POSITIONED SO THAT THEY ARE SECURE.

IMPORTANT SWPPP NOTES FOR CONSTRUCTION ACTIVITY

- PREPARE AND SUBMIT A SITE MANAGEMENT PLAN FOR THE ENGINEER'S ACCEPTANCE FOR CONCRETE MANAGEMENT, CONCRETE SLURRY APPLICATION AREAS, WORK IN AND NEAR AREAS OF ENVIRONMENTAL SENSITIVITY, AREAS IDENTIFIED IN THE PLANS AS "SITE MANAGEMENT PLAN AREA", ANY WORK THAT WILL REQUIRE DEWATERING, AND AS REQUESTED BY THE ENGINEER. SUBMIT ALL SITE MANAGEMENT PLANS TO THE ENGINEER IN WRITING. ALLOW A MINIMUM OF 7 DAYS FOR OWNER AND ENGINEER TO REVIEW AND ACCEPT SITE MANAGEMENT PLAN SUBMITTALS. WORK WILL NOT BE ALLOWED TO COMMENCE IF A SITE MANAGEMENT PLAN IS REQUIRED UNTIL ACCEPTANCE HAS BEEN GRANTED BY THE ENGINEER. THERE WILL BE NO EXTRA TIME ADDED TO THE CONTRACT DUE TO THE UNTIMELY SUBMITTAL.
- ENGINEERED SOIL SHALL REMAIN UNCONTAMINATED (NOT MIXED WITH OTHER SOIL) BEFORE AND DURING INSTALLATION. PLACEMENT OF ENGINEERED SOILS SHALL BE ON DRY NATIVE SOIL ONLY.
- ROUTE STORMWATER AROUND UNSTABILIZED AREAS OF THE SITE WHENEVER FEASIBLE.
- CONSTRUCTION PROJECT SHOULD BE PHASED TO MINIMIZE THE DURATION OF EXPOSED SOILS.
- MINIMIZE COMPACTION OF SOILS AND PRESERVE TOPSOIL IN AREAS WHERE VEGETATION WILL BE ESTABLISHED.
- DIRECT DISCHARGES FROM BMPS TO VEGETATED AREAS WHENEVER FEASIBLE. PROVIDE VELOCITY DISSIPATION DEVICES AS NEEDED TO PREVENT EROSION.
- SILT FENCE OR FABRIC PLACED UNDER THE GRATE IS NOT AN APPROVED FORM OF INLET PROTECTION.
- DISCHARGE TURBID OR SEDIMENT LADEN WATER TO TEMPORARY SEDIMENT BASINS WHENEVER FEASIBLE.
- PROVIDE STABILIZATION IN ANY TRENCHES CUT FOR DEWATERING OR SITE DRAINING PURPOSES.
- REMOVE SEDIMENT FROM STORMWATER SYSTEM AND BMPS AT THE END OF PROJECT.
- PRESERVE A 50 FOOT NATURAL BUFFER OR (IF BUFFER IS INFEASIBLE) PROVIDE A DOUBLE ROW OF SEDIMENT CONTROLS WHEN A SURFACE WATER IS LOCATED WITHIN 50 FEET OF LAND DISTURBANCE AND STORMWATER FLOWS TO THE SURFACE WATER.
- SUBSOIL ALL DISTURBED GREEN SPACES EXCEPT AS LISTED IN MNDOT 2574.3A.5.
- ALL PORTABLE TOILETS MUST BE ANCHORED TO PREVENT TIPPING, EQUIPPED WITH SPILL PANS AND BE PLACED AT LEAST 25 FEET AWAY FROM STORM INLETS.
- REMOVE ALL TEMPORARY BMPS AFTER FINAL STABILIZATION.

OFFSITE FLOW INFORMATION DRAWING

REFER TO DRAINAGE AREA MAPS IN DRAINAGE REPORT FOR ADDITIONAL INFORMATION.



TREATMENT BEST MANAGEMENT PRACTICES (BMPS):

THERE ARE FIVE (5) STORMWATER BASINS PROPOSED WITH THIS PROJECT. (1) INFILTRATION BASIN, (2) FILTRATION BASINS, AND (2) SEDIMENT BASINS.

LANDSCAPING NOTES

- FILTER LOGS SHALL BE PLACED, AS NEEDED, TO TRAP SEDIMENT ON THE LOWER EDGE OF BEDS OR TREE HOLES. FILTER LOGS WILL BE CUT AND MATERIALS LEFT TO ACT AS SEDIMENT TRAPS.
- TILLING FOR BEDS OR TREE HOLES MUST BE PLANTED AND MULCHED WITH WOOD CHIP WITHIN 7 DAYS OR STABILIZED UNTIL PLANTING OPERATIONS CAN BE COMPLETED.

LONG TERM MAINTENANCE AND OPERATION

CARLETON COLLEGE IS RESPONSIBLE FOR LONG-TERM OPERATION AND MAINTENANCE.

PERMIT TERMINATION CONDITIONS

THE FOLLOWING CONDITIONS MUST BE MET PRIOR TO NOTICE OF TERMINATION (NOT):

- PERMANENT UNIFORM PERENNIAL VEGETATIVE COVER MUST BE ESTABLISHED AT 70% DENSITY OF ITS EXPECTED FINAL GROWTH.
- PERMANENT STORMWATER TREATMENT SYSTEM IS CONSTRUCTED, MEETS ALL REQUIREMENTS, AND IS OPERATING AS DESIGNED.
- ALL TEMPORARY SYNTHETIC EROSION PREVENTION AND SEDIMENT CONTROL BMPS MUST BE REMOVED.
- CLEAN OUT SEDIMENT FROM CONVEYANCE SYSTEMS AND PERMANENT STORMWATER TREATMENT SYSTEMS (RETURN TO DESIGN CAPACITY).
- SUBMIT A NOTICE OF TERMINATION (NOT) TO THE MPCA.
- WHEN SUBMITTING NOT, INCLUDE EITHER GROUND OR AERIAL PHOTOGRAPHS SHOWING 70% DENSITY VEGETATIVE COVER. PHOTOGRAPHS MUST INCLUDE DATE THE PHOTO WAS TAKEN.
- SWPPP, INCLUDING ALL INSPECTION REPORTS, MAINTENANCE RECORDS, TRAINING RECORDS AND OTHER INFORMATION REQUIRED BY PERMIT, MUST BE MADE AVAILABLE TO FEDERAL, STATE, AND LOCAL OFFICIALS FOR THREE (3) YEARS FOLLOWING THE NOT.



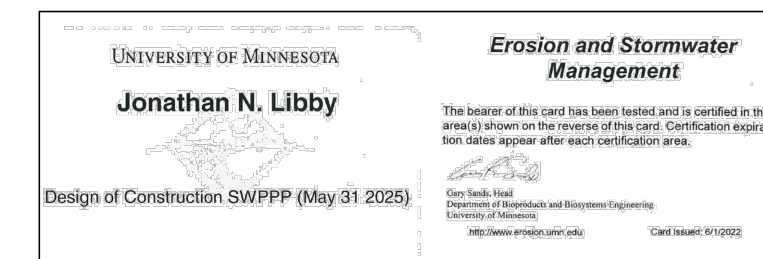
CARLETON COLLEGE

ONE NORTH COLLEGE STREET
NORTHFIELD, MN 55057



THREE OAKS
DRIVE
RECONSTRUCTION

SWPPP DESIGNER CERTIFICATION



ALL CONTRACTORS AND SUBCONTRACTORS SHALL VERIFY ALL DIMENSIONS BY MEASUREMENT AT THE BUILDING AND/OR SITE



BAR IS ONE INCH ON ORIGINAL DRAWING. IF NOT ONE INCH ON THIS DRAWING ADJUST SCALES ACCORDINGLY.

NO.	DATE	ISSUED FOR BIDDING & PERMITTING	ISSUE RECORD
1	2025-04-07	ISSUED FOR BIDDING & PERMITTING	

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 MN.

SIGNATURE: *Amanda Kieffer*
PRINTED NAME: AMANDA KIEFFER
LIC. NO.: 56216 DATE: 2025-04-07

DESIGNED	DRAWN	CHECKED	BPK
AMK	TTK		

SWPPP NARRATIVE

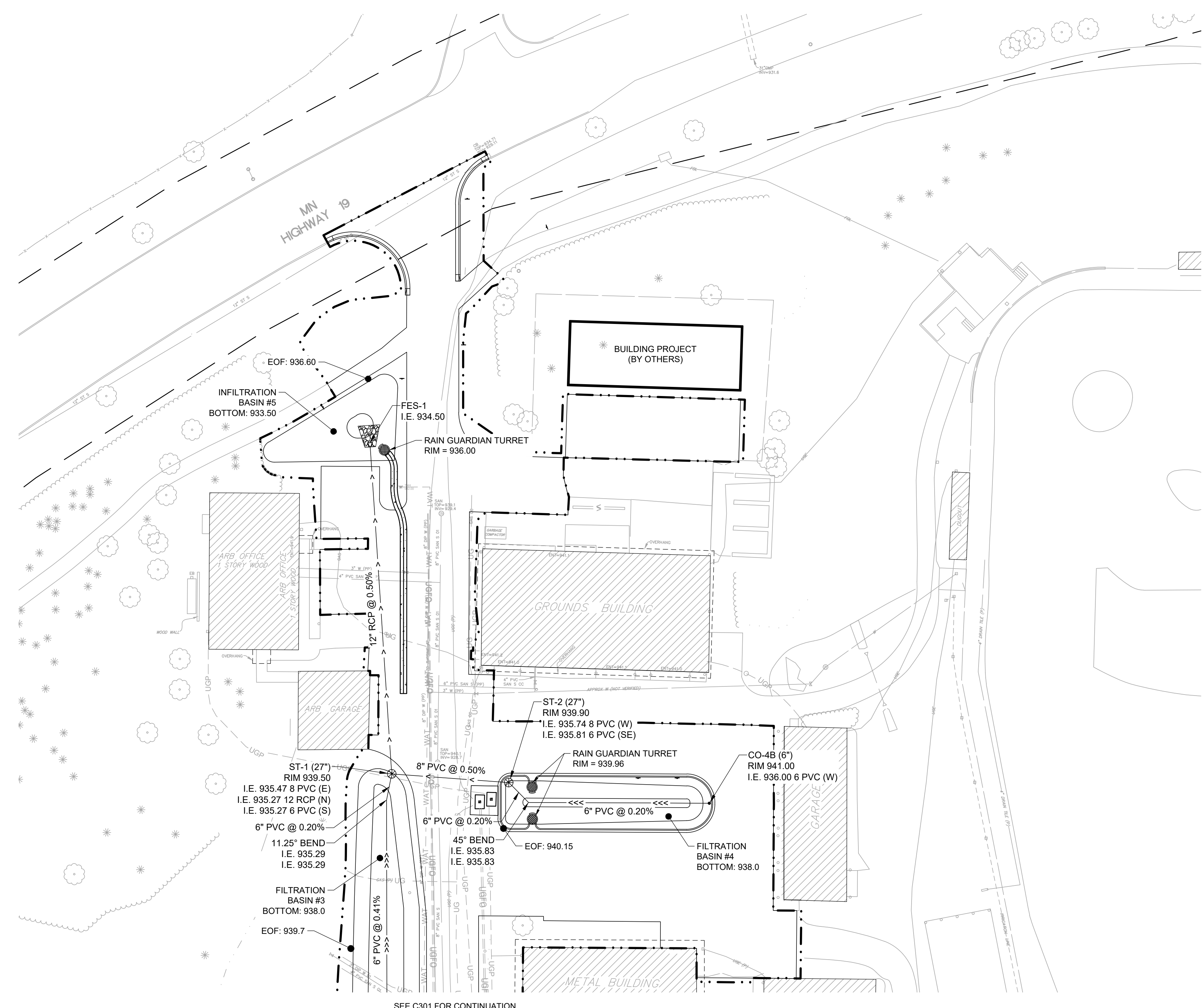
C104

21157.000

EXHIBIT D

Utility Plan (C300 - C302)

Apr 07, 2025 - 1:28pm
K:\a-f\CarletonCollege\21157000\04_Production\01_CAD\02_Sheets\C300 UTILITY PLANS.dwg



SEE C301 FOR CONTINUATION

- LEGEND**
- RIGHT OF WAY
 - - - - APPROXIMATE CONSTRUCTION LIMITS
 - >--- EXISTING SANITARY SEWER
 - <---< PROPOSED STORM SEWER
 - WAT --- DOMESTIC/CITY WATER
 - ⊙ SN EXISTING SANITARY STRUCTURE
 - ⊙ PROPOSED STORM STRUCTURE
 - CLEANOUT
 - ⊙ EXISTING HYDRANT
 - ⊙ EXISTING WATER VALVE
 - ⊙ RAIN GUARDIAN TURRET

- UTILITY NOTES:**
- UTILITIES SHOWN ON PLAN ARE DEPICTED TO ASCE 38-02 QUALITY LEVEL D.
 - THERE IS NO GUARANTEE THAT ALL UNDERGROUND UTILITIES IN SERVICE OR ABANDONED ARE SHOWN.
 - THE CONTRACTOR SHALL VERIFY THE LOCATION OF PUBLIC UNDERGROUND UTILITIES THROUGH GOPHER STATE ONE CALL PRIOR TO COMMENCING DEMOLITION OR CONSTRUCTION ACTIVITIES.
 - THE CONTRACTOR SHALL BE SOLELY RESPONSIBLE FOR ALL PRIVATE UTILITY LOCATES. CONTRACTOR SHALL HIRE A PRIVATE LOCATOR TO ASSIST WITH LOCATES. COST FOR LOCATES & REPAIR OF ANY DAMAGED UTILITIES SHALL BE INCURRED BY THE CONTRACTOR.
 - THE CONTRACTOR SHALL COORDINATE WORK ASSOCIATED WITH THE REMOVAL, RELOCATION OR ABANDONMENT OF UTILITIES WITH THE UTILITY COMPANY OR ENTITY HAVING OWNERSHIP OF EACH RESPECTIVE UTILITY. COSTS FOR DISCONNECTION, REMOVAL AND/OR RELOCATION OF EXISTING UTILITIES AS SHOWN ON THE DRAWINGS OR AS NECESSARY TO ALLOW FOR EXECUTION OF THE WORK SHALL BE PAID BY THE CONTRACTOR.
 - ALL EXISTING UTILITIES SHALL REMAIN IN SERVICE THROUGHOUT CONSTRUCTION, INCLUDING IRRIGATION, AND BE PROTECTED FROM CONSTRUCTION ACTIVITY. AVOID CRUSHING ALL UNDERGROUND UTILITIES, INCLUDING TELECOM DUCT BANK AND FIBER OPTIC, BY ANY MEANS NECESSARY. CONTRACTOR MUST ADEQUATELY SUPPORT THE UTILITIES DURING EXCAVATION.
 - IF UTILITY SERVICES MUST BE INTERRUPTED, THE CONTRACTOR SHALL COORDINATE THAT SHUTDOWN TO MINIMIZE IMPACT TO THE BUILDING AND EXISTING FACILITIES. COORDINATE SHUTDOWN AT LEAST ONE WEEK IN ADVANCE WITH THE OWNER.
 - ALL EXISTING AND PROPOSED SURFACE UTILITY FEATURES INCLUDING, BUT NOT LIMITED TO MANHOLE CASTINGS, HYDRANTS, PIPS, LIGHTPOLES, HANDHOLES, CLEANOUTS AND VALVE BOXES SHALL BE PROTECTED AND ADJUSTED TO PROPOSED FINISH GRADE.
 - PVC STORM SEWER SHALL MEET ASTM D-2241 SDR 26.



CARLETON COLLEGE
ONE NORTH COLLEGE STREET
NORTHFIELD, MN 55057



THREE OAKS DRIVE RECONSTRUCTION

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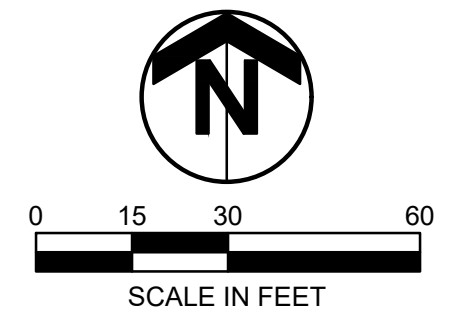
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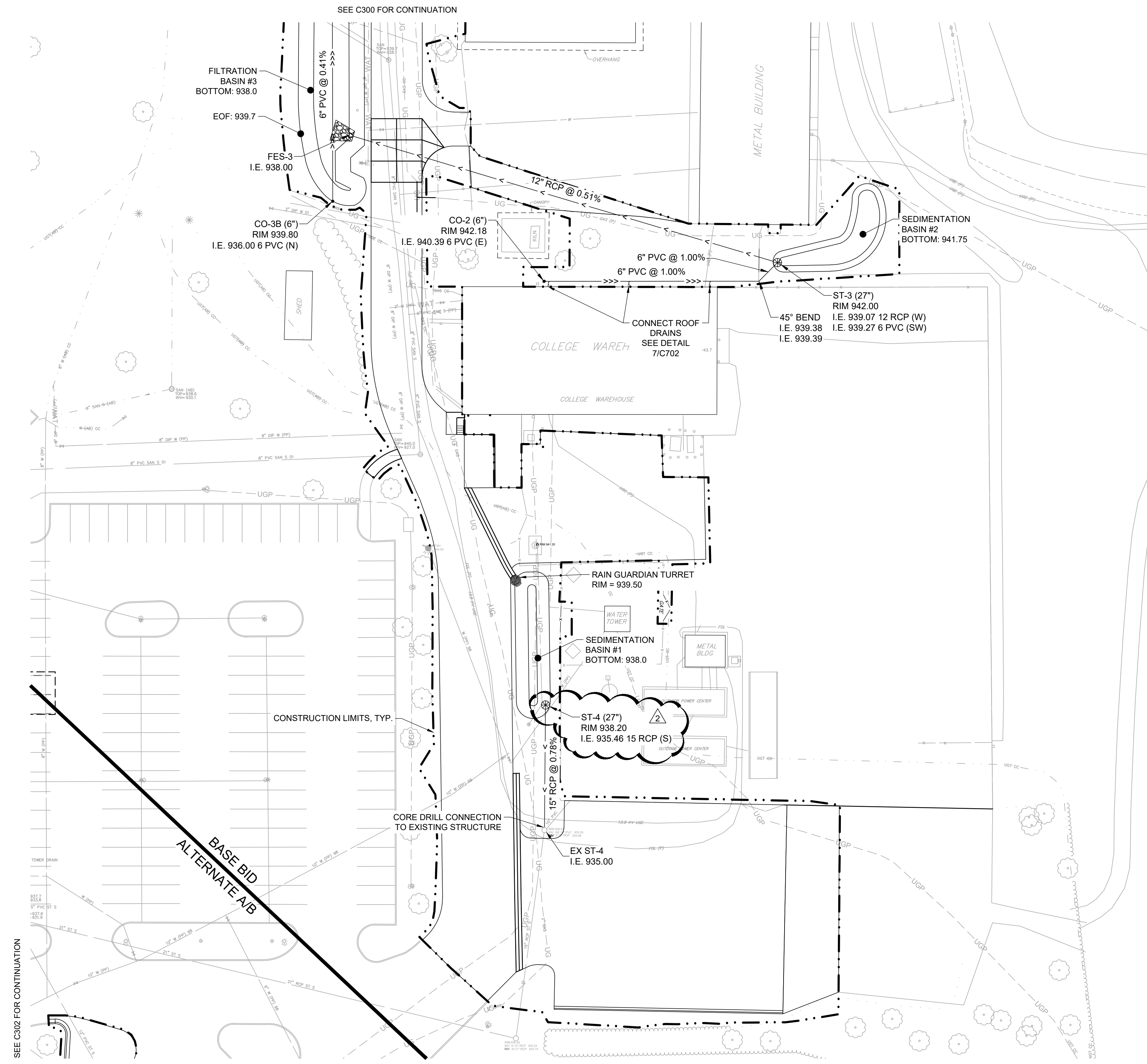
UTILITY PLAN - NORTH



C300

21157.000

Jun 12, 2025 - 12:00pm
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- LEGEND**
- RIGHT OF WAY
 - - - - - APPROXIMATE CONSTRUCTION LIMITS
 - - - - - EXISTING SANITARY SEWER
 - - - - - PROPOSED STORM SEWER
 - - - - - DOMESTIC/CITY WATER
 - ⊗ EXISTING SANITARY STRUCTURE
 - ⊗ PROPOSED STORM STRUCTURE
SEE DETAIL 3/C702 OR 4/C702
 - CLEANOUT
SEE DETAIL 8/C702
 - ⊕ EXISTING HYDRANT
 - ⊕ EXISTING WATER VALVE
 - ⊕ RAIN GUARDIAN TURRET
SEE DETAIL 5/C702

- UTILITY NOTES:**
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 3. THE CONTRACTOR SHALL VERIFY THE LOCATION OF PUBLIC UNDERGROUND UTILITIES THROUGH GOPHER STATE ONE CALL PRIOR TO COMMENCING DEMOLITION OR CONSTRUCTION ACTIVITIES.
 4. THE CONTRACTOR SHALL BE SOLELY RESPONSIBLE FOR ALL PRIVATE UTILITY LOCATES. CONTRACTOR SHALL HIRE A PRIVATE LOCATOR TO ASSIST WITH LOCATES. COST FOR LOCATES & REPAIR OF ANY DAMAGED UTILITIES SHALL BE INCURRED BY THE CONTRACTOR.
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 7. IF UTILITY SERVICES MUST BE INTERRUPTED, THE CONTRACTOR SHALL COORDINATE THAT SHUTDOWN TO MINIMIZE IMPACT TO THE BUILDING AND EXISTING FACILITIES. COORDINATE SHUTDOWN AT LEAST ONE WEEK IN ADVANCE WITH THE OWNER.
 8. ALL EXISTING AND PROPOSED SURFACE UTILITY FEATURES INCLUDING, BUT NOT LIMITED TO MANHOLE CASTINGS, HYDRANTS, PIVS, LIGHTPOLES, HANDHOLES, CLEANOUTS AND VALVE BOXES SHALL BE PROTECTED AND ADJUSTED TO PROPOSED FINISH GRADE.
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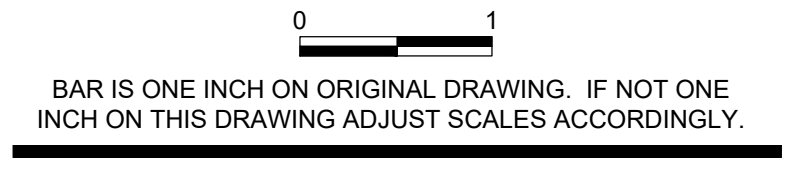


CARLETON COLLEGE
 ONE NORTH COLLEGE STREET
 NORTHFIELD, MN 55057



THREE OAKS DRIVE RECONSTRUCTION

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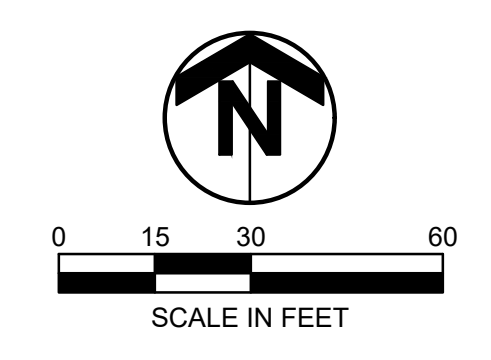
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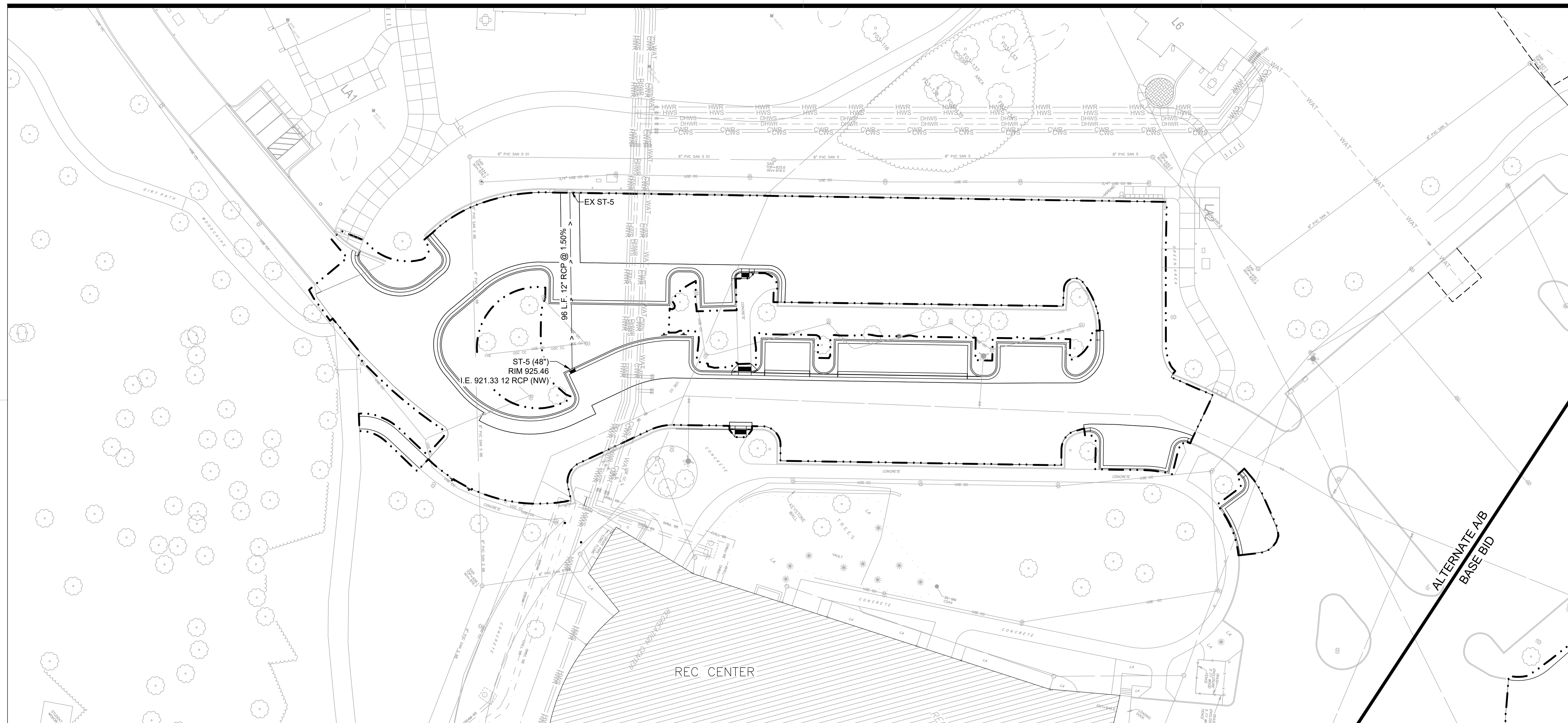
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AMK	TTK		

UTILITY PLAN - SOUTH



C301

21157.000



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DESIGNED	DRAWN	CHECKED	BPK
AMK	TTK		

UTILITY PLAN - REC CENTER

C302

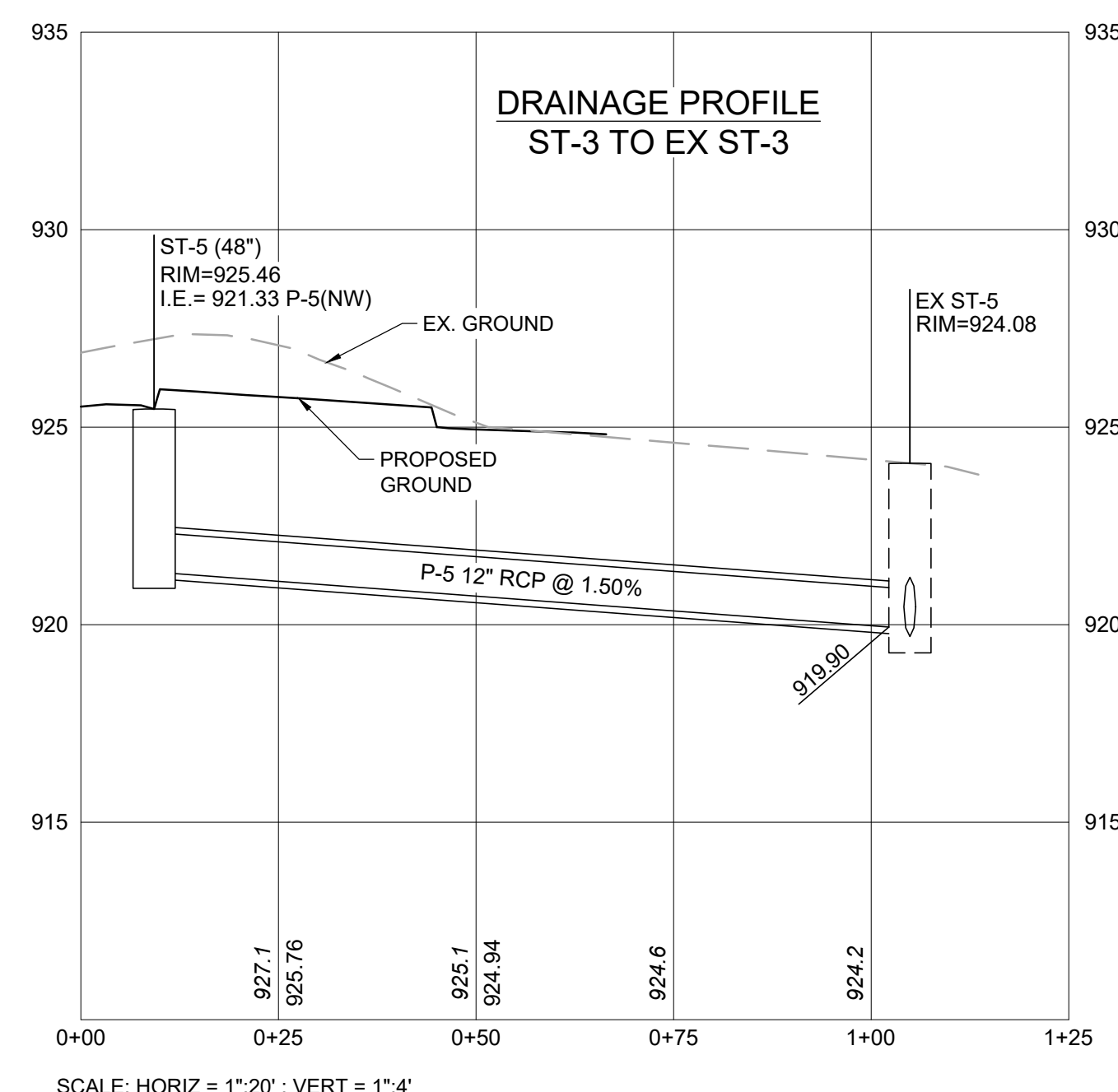
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LEGEND

- RIGHT OF WAY
- - - APPROXIMATE CONSTRUCTION LIMITS
- - - EXISTING SANITARY SEWER
- - - PROPOSED STORM SEWER
- - - DOMESTIC/CITY WATER
- SN EXISTING SANITARY STRUCTURE
- PROPOSED STORM STRUCTURE SEE DETAIL 3/C702 OR 4/C702
- CLEANOUT SEE DETAIL 8/C702
- EXISTING HYDRANT
- EXISTING WATER VALVE
- RAIN GUARDIAN TURRET SEE DETAIL 5/C702

UTILITY NOTES:

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STORM DRAIN PIPE SCHEDULE (ALTERNATE A)

PIPE NO.	DRAIN FROM	INLET ELEVATION	DRAIN TO	OUTLET ELEVATION	PIPE SIZE (IN)	MATERIAL	PIPE CLASS	PIPE GRADE
P-5	ST-5	921.33	EX ST-5	919.90	12	RCP	CLASS V	1.50%

STORM DRAIN STRUCTURE SCHEDULE (ALTERNATE A)

STRUCTURE NO.	STRUCTURE SIZE (IN)	STRUCTURE MATERIAL	CASTING	* TOP OF CASTING ELEVATION	OUTLET INVERT	OUTLET PIPE
ST-5	48 Ø	RC	NEENAH R-3067-VB	925.46	921.33	P-5

* TOP OF CASTING ELEVATIONS FOR BEEHIVE STYLE CASTINGS REFER TO THE TOPMOST ADJUSTING RING ELEVATION. TOP OF CASTING ELEVATION FOR CURB STYLE CASTINGS REFER TO THE TOP BACK OF CURB.

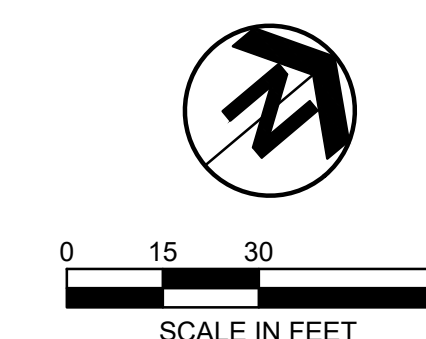
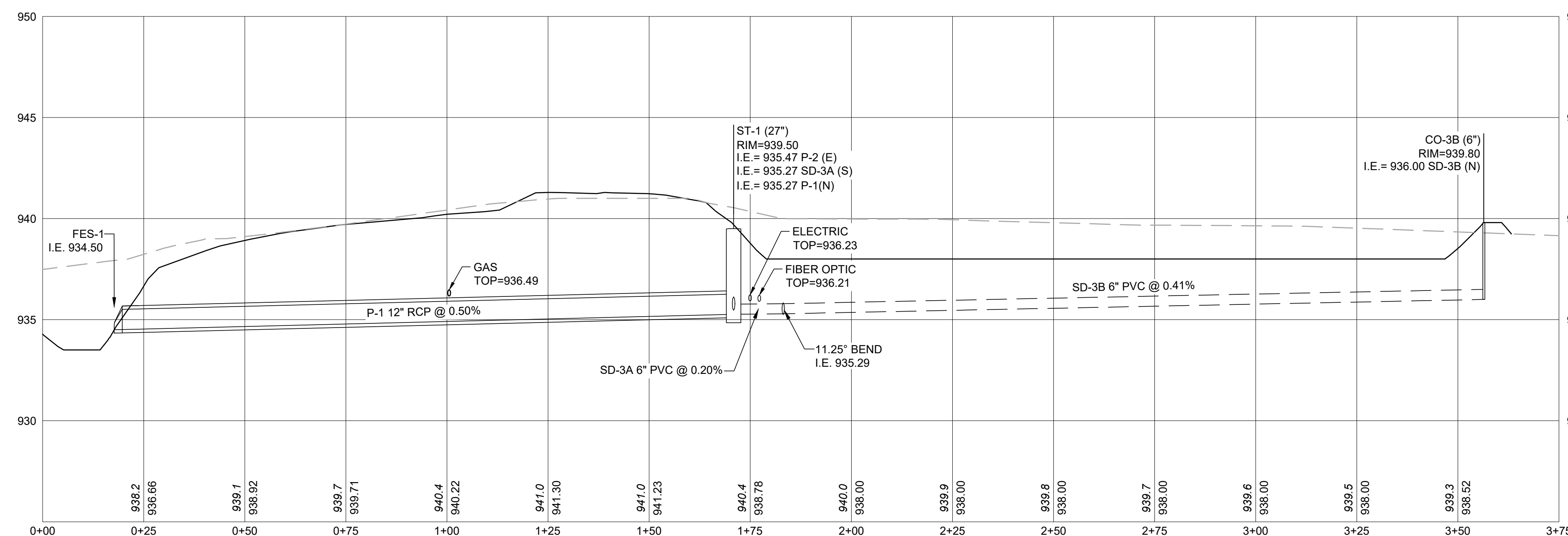


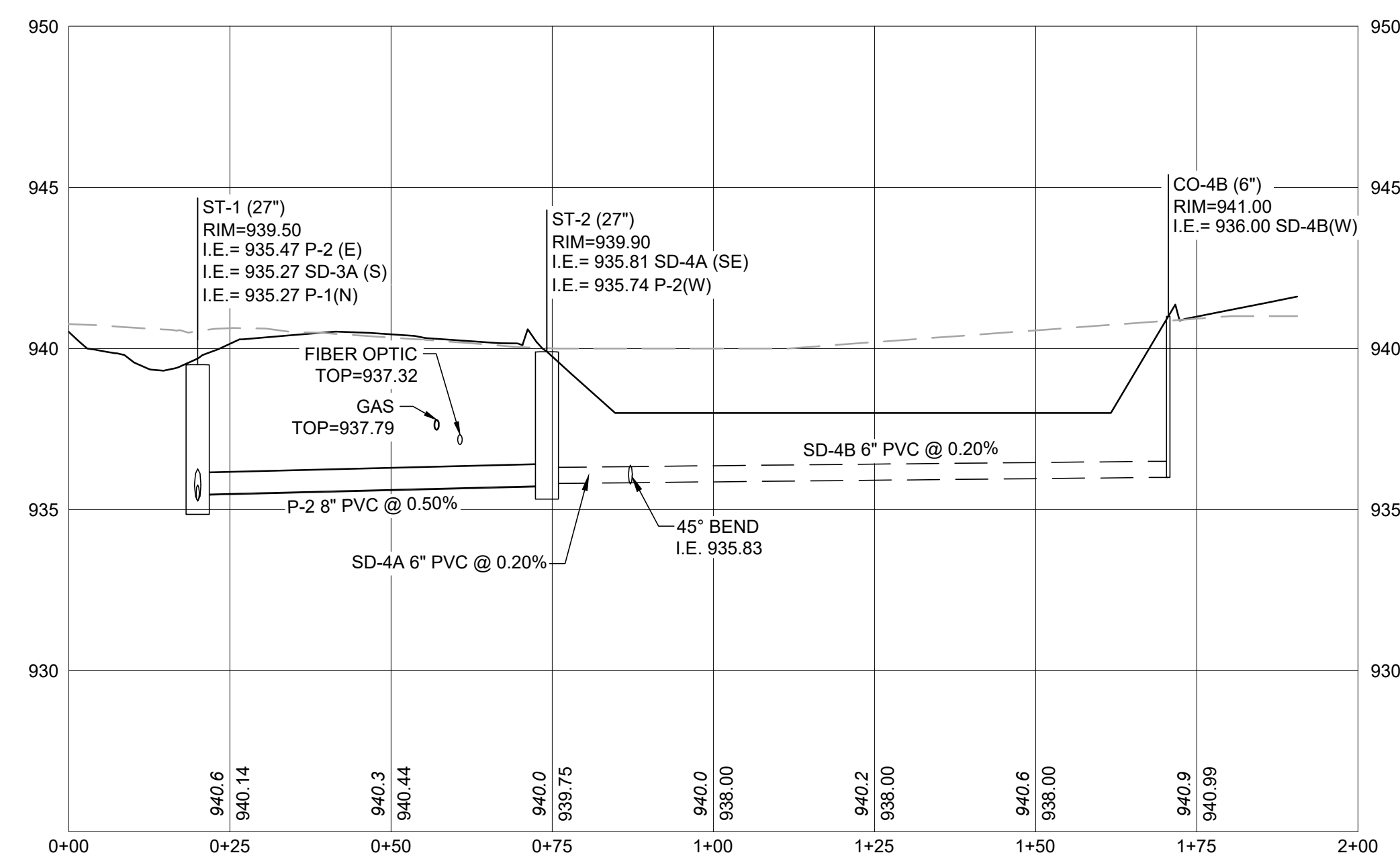
EXHIBIT E

Storm Profiles and Schedules (C303 -C304)

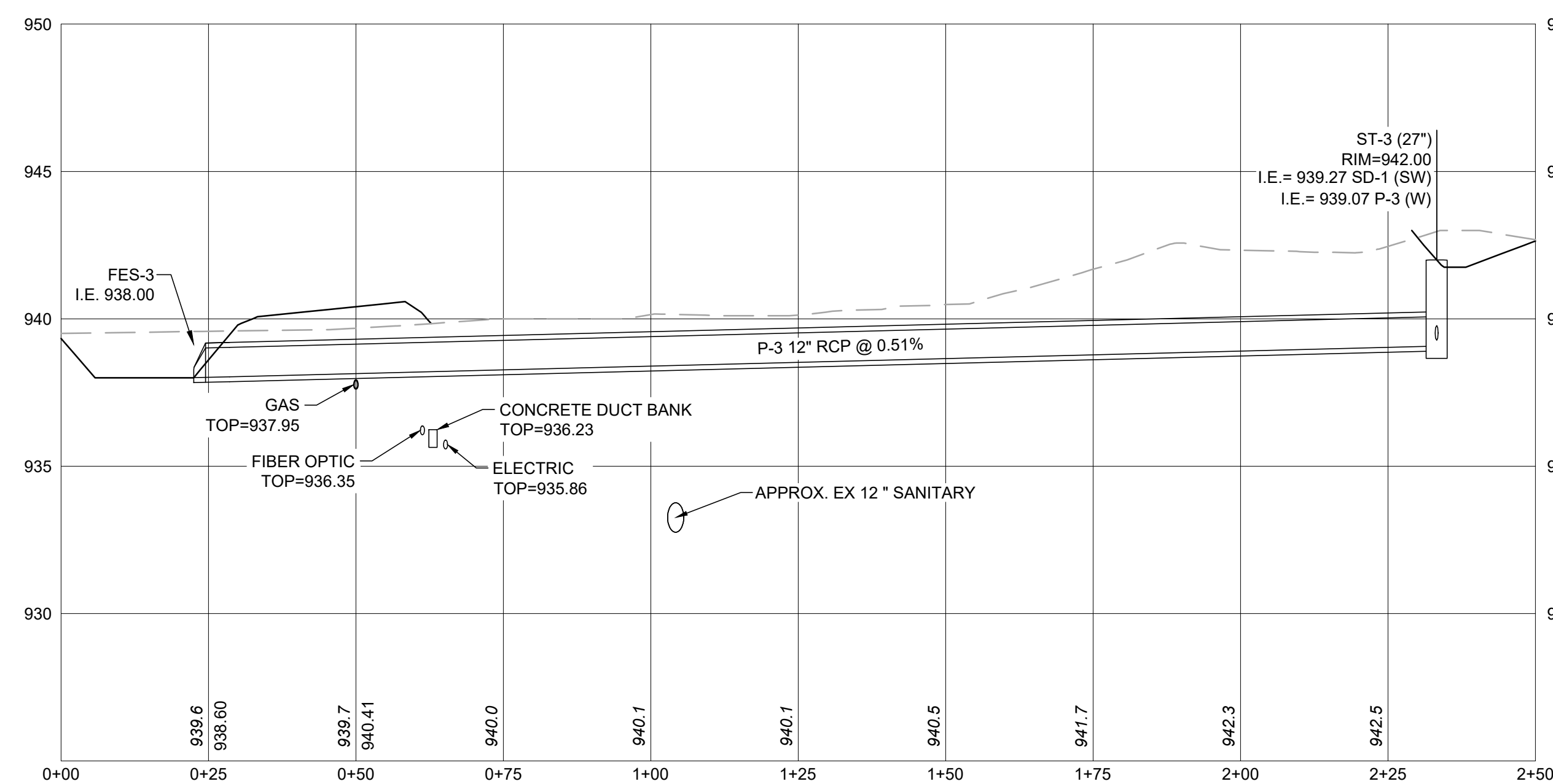
FES-1, ST-16, AND CO-3B



ST-1, ST-2, AND CO-4B



FES-3 TO ST-3

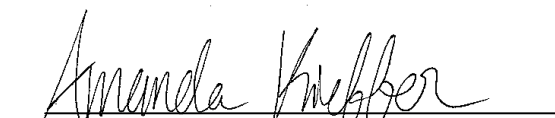


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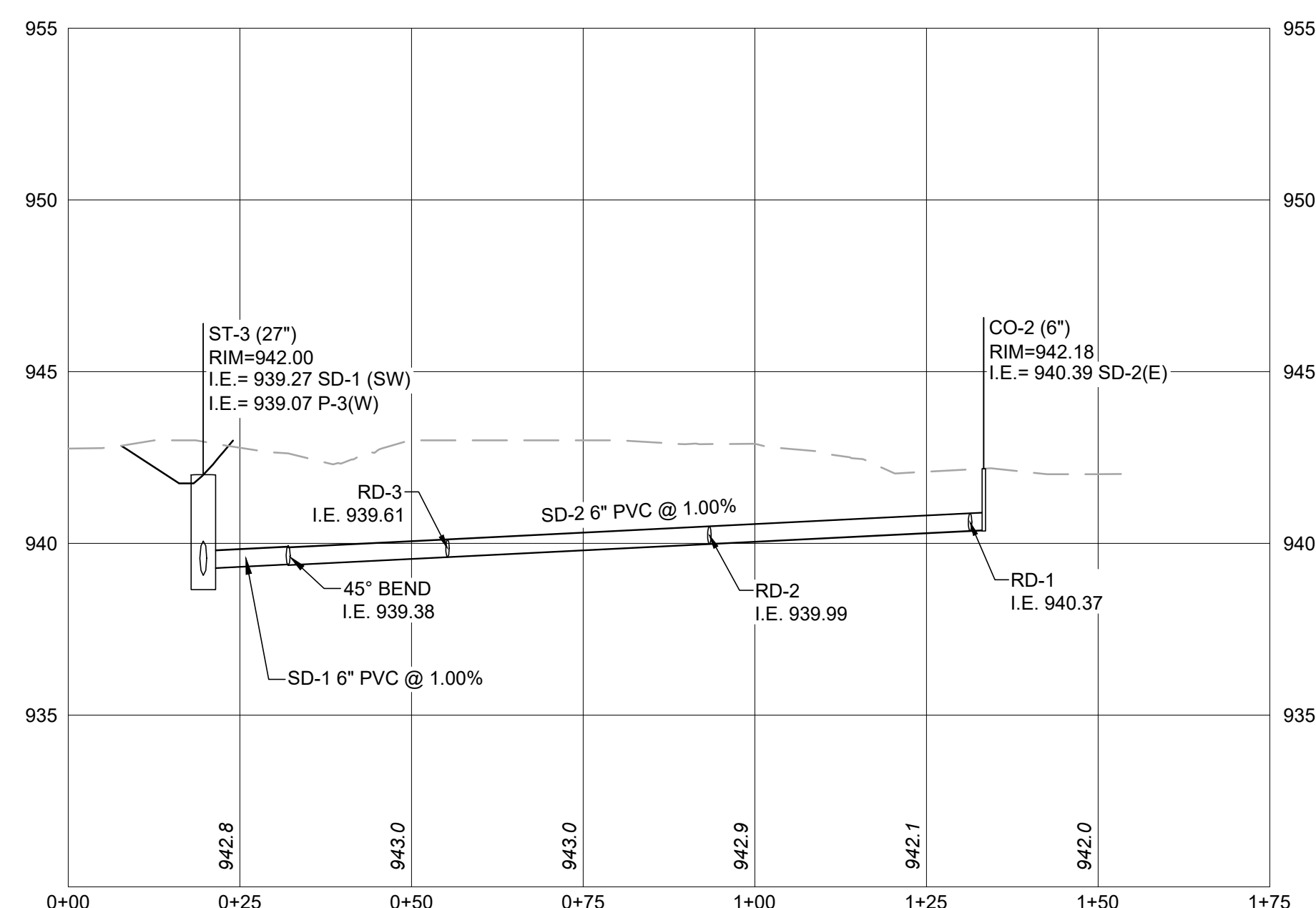
DESIGNED AMK DRAWN TTK CHECKED BPK

STORM PROFILES

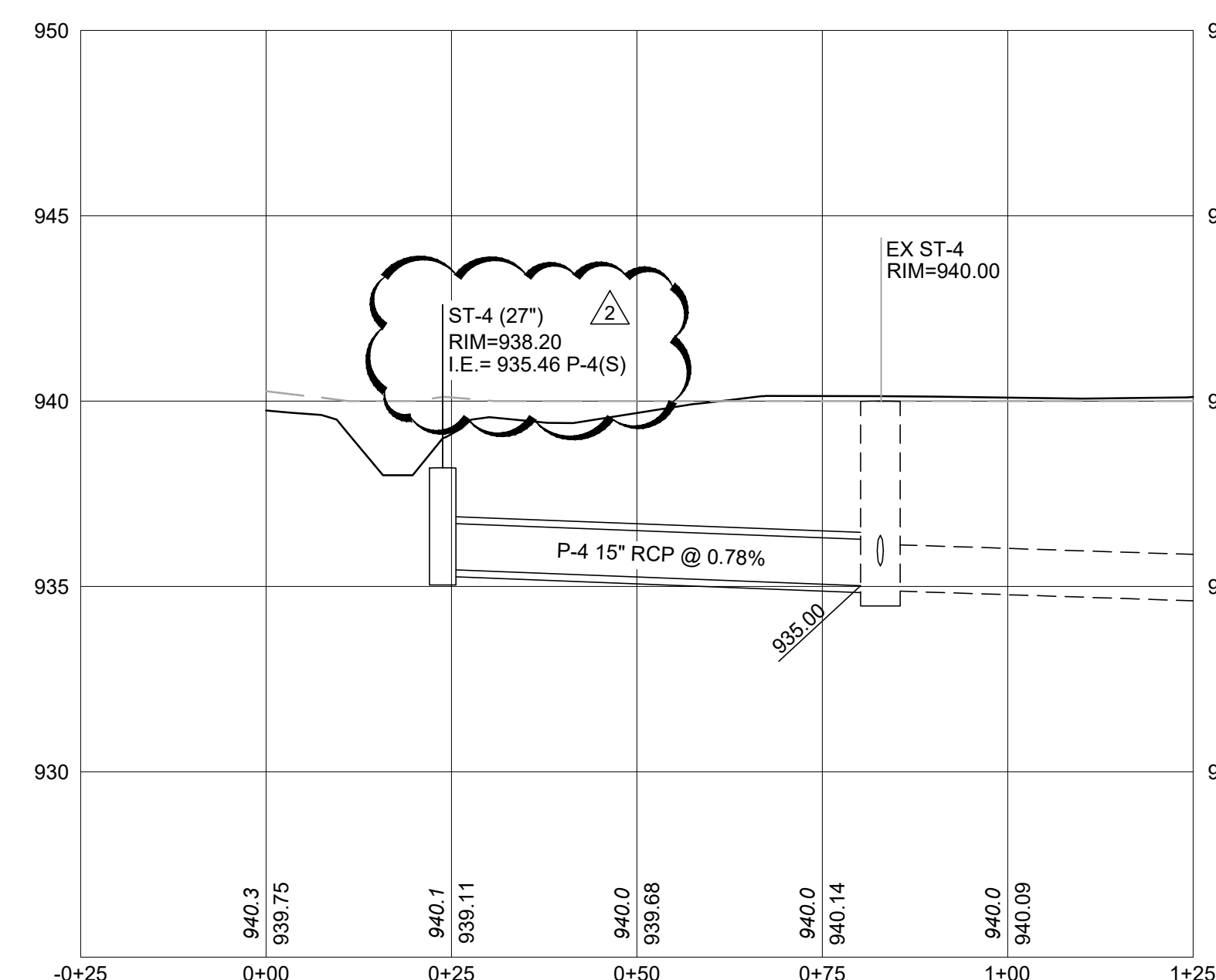
C303

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ST-3 TO CO-2



ST-4 TO EX ST-4



STORM DRAIN STRUCTURE SCHEDULE

STRUCTURE NO.	STRUCTURE TYPE	STRUCTURE SIZE (IN)	STRUCTURE MATERIAL	CASTING	* TOP OF CASTING ELEVATION	OUTLET INVERT	OUTLET PIPE
ST-1	MNDOT 4006 DESIGN G	27 Ø	RC	NEENAH R-4342	939.50	935.27	P-1
ST-2	MNDOT 4006 DESIGN G	27 Ø	RC	NEENAH R-4342	939.90	935.74	P-2
ST-3	MNDOT 4006 DESIGN G	27 Ø	RC	NEENAH R-4342	942.00	939.07	P-3
ST-4	MNDOT 4006 DESIGN G	27 Ø	RC	NEENAH R-4342	938.20	935.46	P-4

* TOP OF CASTING ELEVATIONS FOR BEEHIVE STYLE CASTINGS REFER TO THE TOP MOST ADJUSTING RING ELEVATION. TOP OF CASTING ELEVATION FOR CURB STYLE CASTINGS REFER TO THE TOP BACK OF CURB.

STORM CLEANOUT SCHEDULE

STRUCTURE NO.	STRUCTURE SIZE (IN)	STRUCTURE MATERIAL	CASTING	TOP OF CASTING ELEVATION	OUTLET INVERT	OUTLET PIPE
CO-2	6	PVC	THREADED CAP	942.18	940.39	SD-2
CO-3B	6	PVC	THREADED CAP	939.80	936.00	SD-3B
CO-4B	6	PVC	THREADED CAP	941.00	936.00	SD-4B

STORM DRAIN PIPE SCHEDULE

PIPE NO.	DRAIN FROM	INLET ELEVATION	DRAIN TO	OUTLET ELEVATION	PIPE SIZE (IN)	MATERIAL	PIPE GRADE
SD-1	45° BEND	939.39	ST-3	939.27	6	NON-PERFORATED PVC	1.00%
SD-2	CO-2	940.39	45° BEND	939.38	6	NON-PERFORATED PVC	1.00%
SD-3A	11.25° BEND	935.29	ST-1	935.27	6	PERFORATED PVC	0.20%
SD-3B	CO-3B	936.00	11.25° BEND	935.29	6	PERFORATED PVC	0.41%
SD-4A	45° BEND	935.83	ST-2	935.81	6	PERFORATED PVC	0.20%
SD-4B	CO-4B	936.00	45° BEND	935.83	6	PERFORATED PVC	0.20%

STORM DRAIN PIPE SCHEDULE

PIPE NO.	DRAIN FROM	INLET ELEVATION	DRAIN TO	OUTLET ELEVATION	PIPE SIZE (IN)	MATERIAL	PIPE CLASS	PIPE GRADE
P-1	ST-1	935.27	FES-1	934.50	12	RCP	RCP	0.50%
P-2	ST-2	935.74	ST-1	935.47	8	PVC	PVC	0.50%
P-3	ST-3	939.07	FES-3	938.00	12	RCP	CLASS V	0.51%
P-4	ST-4	935.46	EX ST-4	935.00	15	RCP	CLASS III	0.78%

STORM DRAIN APRON SCHEDULE

APRON NO.	APRON SIZE (IN)	APRON MATERIAL	INVERT ELEVATION	PIPE NO.
FES-1	12	RC	934.50	P-1
FES-3	12	RC	938.00	P-3

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DESIGNED AMK DRAWN TTK CHECKED BPK

STORM PROFILES AND SCHEDULES

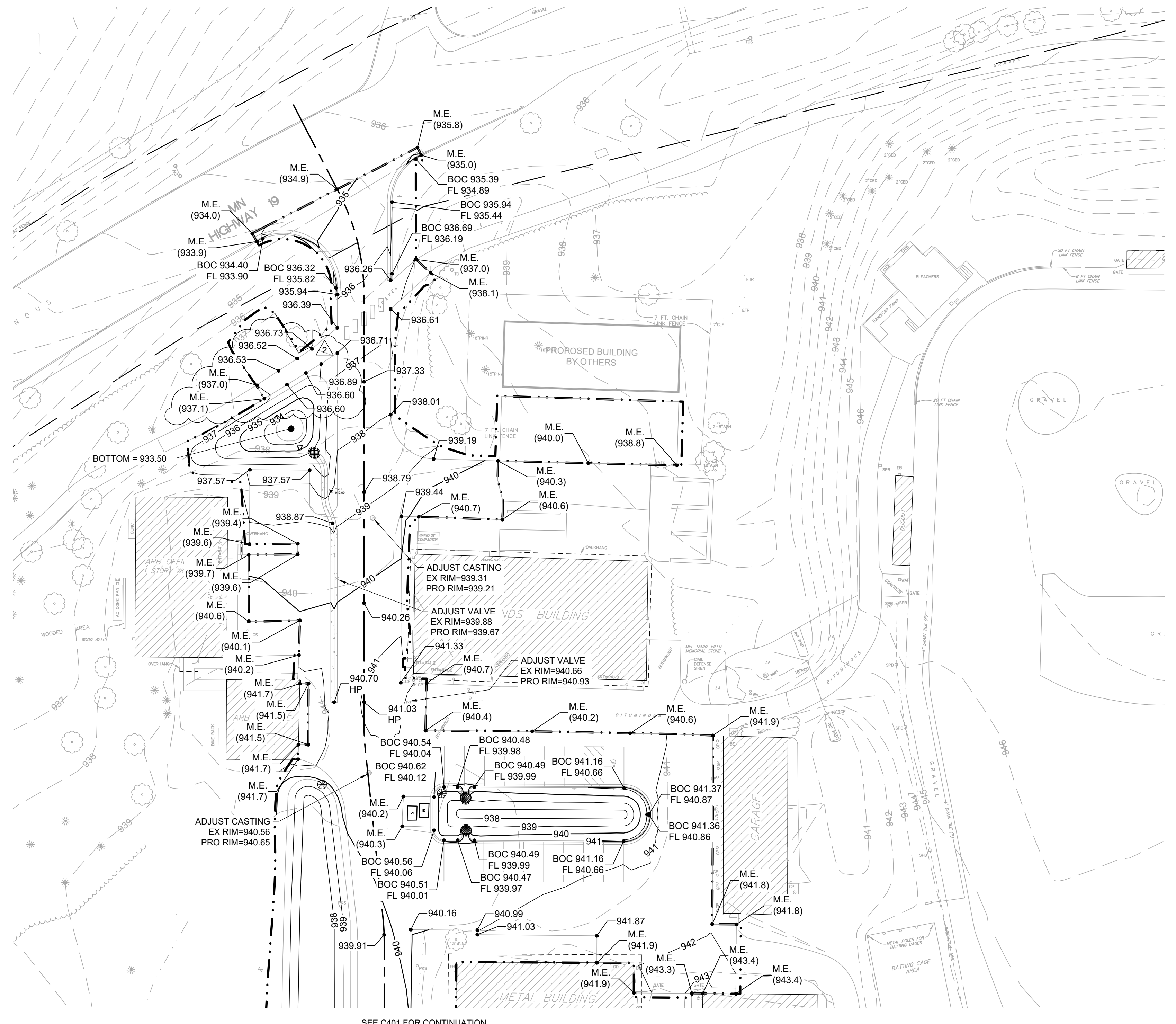
C304

21157.000

EXHIBIT F

Grading Plan (C400 – C402)

Jun 12, 2025 - 12:00pm
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SEE C401 FOR CONTINUATION

LEGEND

	RIGHT OF WAY
	APPROXIMATE CONSTRUCTION LIMITS
	EXISTING CONTOURS
	PROPOSED CONTOURS
	M.E. (XXX.X)
	BOC XXX.X FL XXX.X
	XXX.X
	HP XXX.X

- GENERAL GRADING NOTES:**
- LOCATE ALL UTILITIES IN CONSTRUCTION AREA PRIOR TO CONSTRUCTION. NOTIFY ENGINEER OF ANY CONFLICTS WITH PROPOSED UTILITY LOCATIONS. PROTECT EXISTING UTILITIES THROUGHOUT CONSTRUCTION.
 - REFER TO THE PROJECT GEOTECHNICAL REPORT PREPARED BY PSI, DATED 2/18/2025. ALL GRADING AND EARTHWORK SHALL CONFORM TO THE RECOMMENDATIONS AND REQUIREMENTS OF THESE REPORTS.
 - ALL MANHOLES, CATCH BASINS, CLEANOUTS, VALVE BOXES, FRAMES, COVERS, AND GRATES REMAINING IN PLACE SHALL BE ADJUSTED TO FINAL GRADES.
 - BACKFILL TO SUBGRADE ELEVATIONS, ACCOUNTING FOR FINAL SURFACING THICKNESS.
 - GRADE ALONG BUILDING SHALL HAVE POSITIVE DRAINAGE AWAY FROM THE BUILDING.
 - MAXIMUM CROSS-SLOPES FOR ACCESSIBLE AREAS AND ALONG ACCESSIBLE ROUTES SHALL NOT EXCEED 2%.
 - MAXIMUM SLOPE IN DIRECTION OF TRAVEL IN ACCESSIBLE AREAS AND ALONG ACCESSIBLE ROUTES SHALL NOT EXCEED 5%.
 - REFER TO EROSION CONTROL PLANS FOR ADDITIONAL DETAIL ON GRADING OF INFILTRATION BASINS AND PROTECTION DURING GRADING AND CONSTRUCTION OPERATIONS.



CARLETON COLLEGE
ONE NORTH COLLEGE STREET
NORTHFIELD, MN 55057



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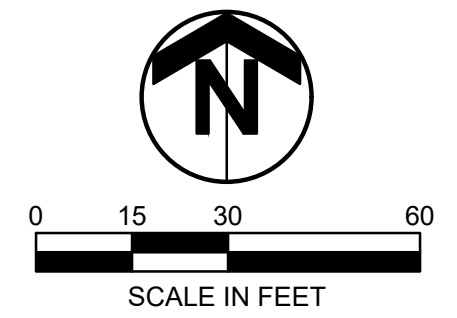
SIGNATURE: *Amanda Kieffer*
PRINTED NAME: AMANDA KIEFFER
LIC. NO.: 56216 DATE: 2025-04-07

DESIGNED	DRAWN	CHECKED	BPK
AMK	TTK		

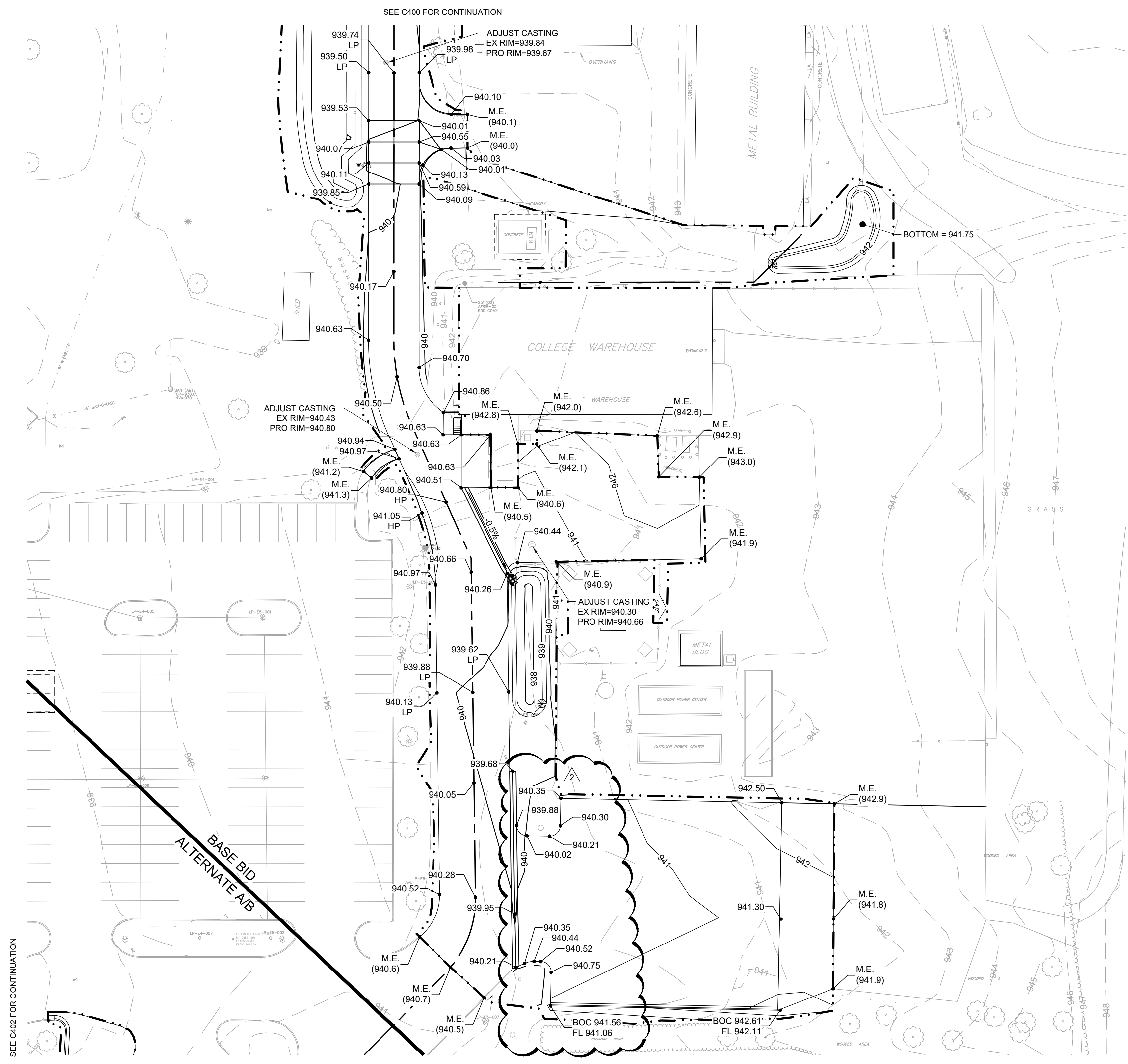
GRADING PLAN - NORTH

C400

21157.000



Jun 12, 2025 - 12:01pm
 K:\a-f\CarletonCollege\21157000\04_Production\01_CAD\02_Sheets\C400 GRADING PLANS.dwg



LEGEND

	RIGHT OF WAY
	APPROXIMATE CONSTRUCTION LIMITS
	EXISTING CONTOURS
	PROPOSED CONTOURS
	MATCH EXISTING ELEVATION
	BACK OF CURB/FLOW LINE ELEVATIONS
	PROPOSED ELEVATION
	HIGH POINT ELEVATION

- GENERAL GRADING NOTES:**
1. LOCATE ALL UTILITIES IN CONSTRUCTION AREA PRIOR TO CONSTRUCTION. NOTIFY ENGINEER OF ANY CONFLICTS WITH PROPOSED UTILITY LOCATIONS. PROTECT EXISTING UTILITIES THROUGHOUT CONSTRUCTION.
 2. REFER TO THE PROJECT GEOTECHNICAL REPORT PREPARED BY PSI, DATED 2/18/2025. ALL GRADING AND EARTHWORK SHALL CONFORM TO THE RECOMMENDATIONS AND REQUIREMENTS OF THESE REPORTS.
 3. ALL MANHOLES, CATCH BASINS, CLEANOUTS, VALVE BOXES, FRAMES, COVERS, AND GRATES REMAINING IN PLACE SHALL BE ADJUSTED TO FINAL GRADES.
 4. BACKFILL TO SUBGRADE ELEVATIONS, ACCOUNTING FOR FINAL SURFACING THICKNESS.
 5. GRADE ALONG BUILDING SHALL HAVE POSITIVE DRAINAGE AWAY FROM THE BUILDING.
 6. MAXIMUM CROSS-SLOPES FOR ACCESSIBLE AREAS AND ALONG ACCESSIBLE ROUTES SHALL NOT EXCEED 2%.
 7. MAXIMUM SLOPE IN DIRECTION OF TRAVEL IN ACCESSIBLE AREAS AND ALONG ACCESSIBLE ROUTES SHALL NOT EXCEED 5%.
 8. REFER TO EROSION CONTROL PLANS FOR ADDITIONAL DETAIL ON GRADING OF INFILTRATION BASINS AND PROTECTION DURING GRADING AND CONSTRUCTION OPERATIONS.

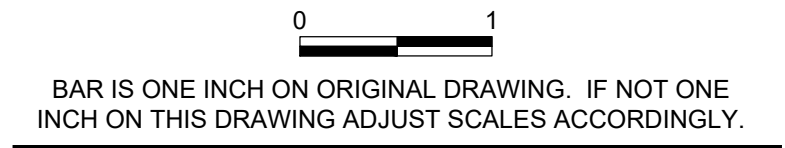


CARLETON COLLEGE
 ONE NORTH COLLEGE STREET
 NORTHFIELD, MN 55057



THREE OAKS DRIVE RECONSTRUCTION

ALL CONTRACTORS AND SUBCONTRACTORS SHALL VERIFY ALL DIMENSIONS BY MEASUREMENT AT THE BUILDING AND/OR SITE



NO.	DATE	ISSUE RECORD
2	2025-06-12	PR 01
1	2025-04-07	ISSUED OF BIDDING & PERMITTING

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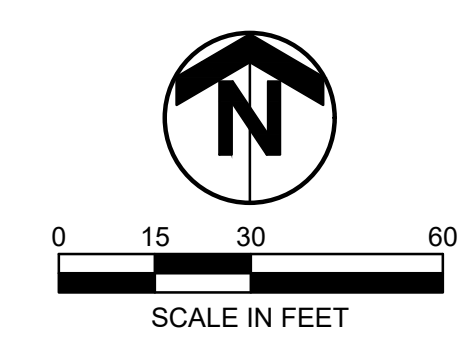
SIGNATURE: *Amanda Kieffer*
 PRINTED NAME: AMANDA KIEFFER
 LIC. NO.: 56216 DATE: 2025-04-07

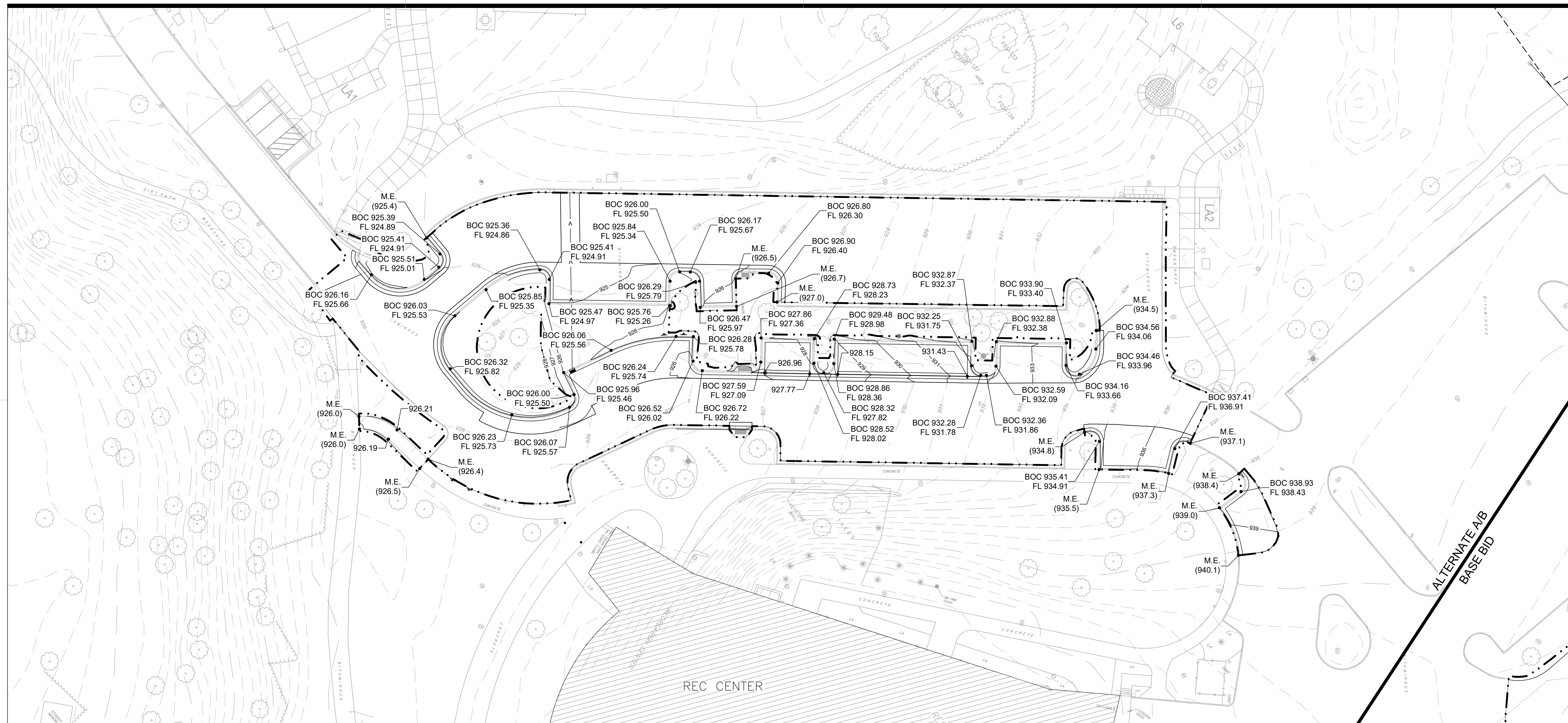
DESIGNED	DRAWN	CHECKED	BPK
AMK	TTK		

GRADING PLAN - SOUTH

C401

21157.000





SEE C401 FOR CONTINUATION

ALL CONTRACTORS AND SUBCONTRACTORS SHALL VERIFY ALL DIMENSIONS BY MEASUREMENT AT THE BUILDING AND/OR SITE



BAR IS ONE INCH ON ORIGINAL DRAWING. IF NOT ONE INCH ON THIS DRAWING ADJUST SCALES ACCORDINGLY.

GENERAL GRADING NOTES:

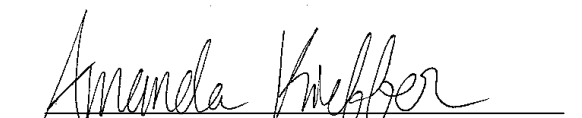
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6. MAXIMUM CROSS-SLOPES FOR ACCESSIBLE AREAS AND ALONG ACCESSIBLE ROUTES SHALL NOT EXCEED 2%.
7. MAXIMUM SLOPE IN DIRECTION OF TRAVEL IN ACCESSIBLE AREAS AND ALONG ACCESSIBLE ROUTES SHALL NOT EXCEED 5%.
8. REFER TO EROSION CONTROL PLANS FOR ADDITIONAL DETAIL ON GRADING OF INFILTRATION BASINS AND PROTECTION DURING GRADING AND CONSTRUCTION OPERATIONS.

LEGEND

- RIGHT OF WAY
- - - - - APPROXIMATE CONSTRUCTION LIMITS
- 930- EXISTING CONTOURS
- 929- EXISTING CONTOURS
- 930- PROPOSED CONTOURS
- 929- PROPOSED CONTOURS
- M.E. (XXX.X) MATCH EXISTING ELEVATION
- BOC XXX.X FL XXX.X BACK OF CURB/FLOW LINE ELEVATIONS
- XXX.X PROPOSED ELEVATION

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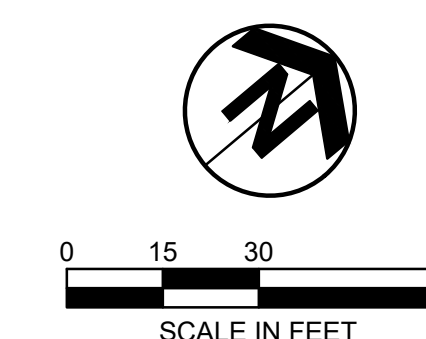
SIGNATURE: 
 PRINTED NAME: AMANDA KIEFFER
 LIC. NO.: 56216 DATE: 2025-04-07

DESIGNED	DRAWN	CHECKED	BPK
AMK	TTK		

**GRADING PLAN - REC
CENTER**

C402

21157.000

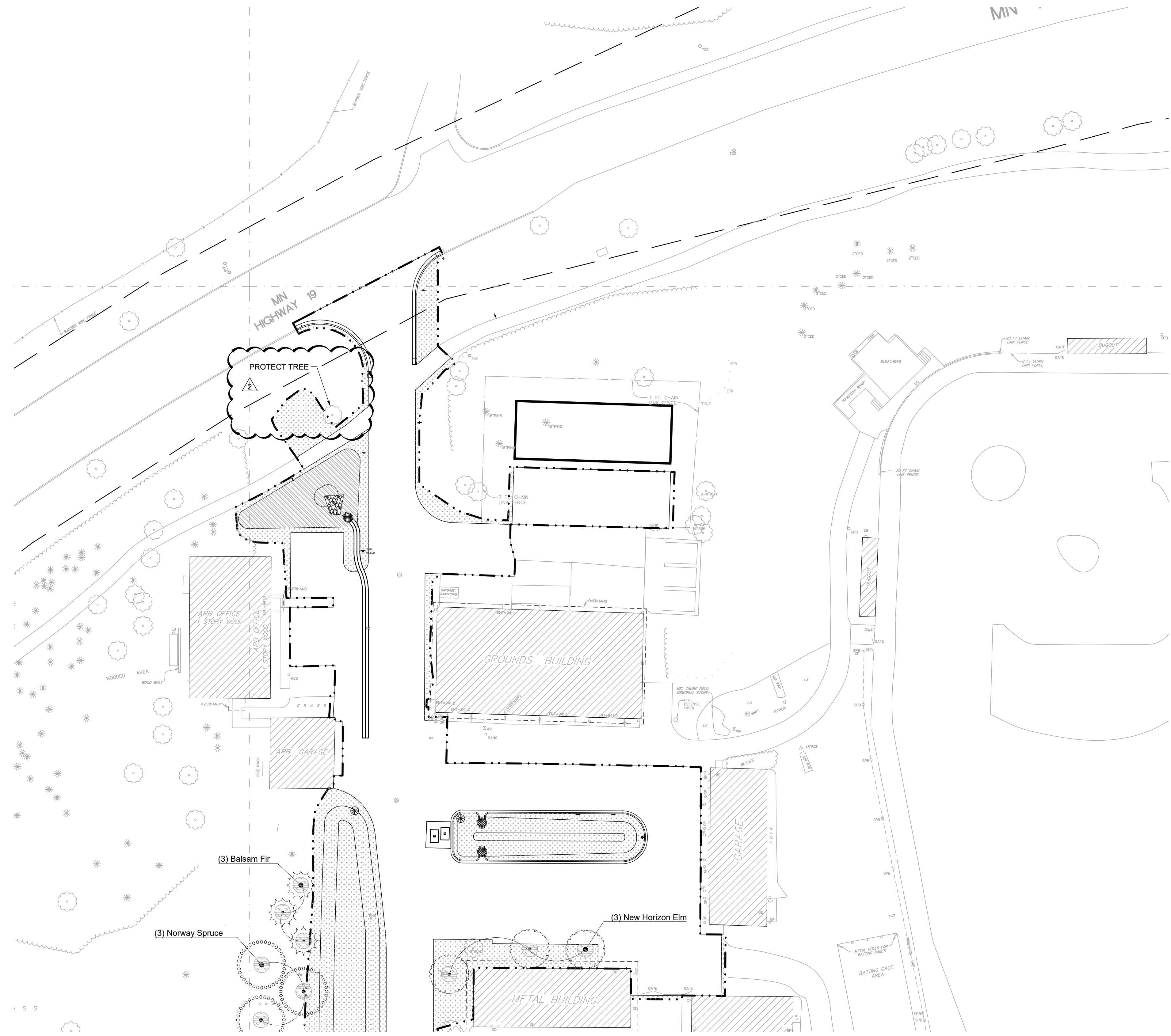


Apr 07, 2025 - 1:39pm K:\a-f\CarletonCollege\21157000\04_Production\01_CAD\02_Sheets\C402_Grading Plan-REC CENTER.dwg

EXHIBIT G

Landscape Plan and Planting Schedule (C600 – C603)

Jun 10, 2025 - 2:09pm
 \\tkda.com\projects\carleton\CarletonCollege\2115700004_Production\01_CAD\02_Sheets\C600_LANDSCAPE PLANS_06_10_25.dwg



SEE C601 FOR CONTINUATION

LEGEND

	RIGHT OF WAY
	APPROXIMATE CONSTRUCTION LIMITS
	DRY SHORT PRAIRIE SEED MIX SEE SPEC
	INFILTRATION BASIN SEED MIX SEE SPEC
	WESTERN RED CEDAR MULCH SEE SPEC

- LANDSCAPING NOTES:**
- LANDSCAPE DRAWINGS DO NOT CONSTITUTE AN OFFICIAL SURVEY OF THE SITE. CONFIRM ALL LOCATIONS OF SURFACE AND SUB-SURFACE FEATURES BEFORE BEGINNING INSTALLATION. ADVISE LANDSCAPE ARCHITECT OF ANY DISCREPANCIES. CONFIRM ALL QUANTITIES, SHAPES AND LOCATIONS OF BEDS, AND ADJUST TO CONFORM TO THE SITE CONDITIONS. CONFIRM ANY ADJUSTMENTS WITH THE LANDSCAPE ARCHITECT.
 - LOCATE ALL UTILITIES. NOTIFY THE LANDSCAPE ARCHITECT OF ANY CONFLICTS WITH PLANT INSTALLATION.
 - THE CONTRACTOR SHALL BE RESPONSIBLE FOR ALL MULCHES AND PLANTING SOIL QUANTITIES TO COMPLETE THE WORK SHOWN ON THE PLAN. VERIFY ALL QUANTITIES SHOWN ON THE PLANT SCHEDULE. THE CONTRACTOR SHALL REMOVE FROM THE SITE ALL SOD/TURF WHICH HAS BEEN REMOVED FOR NEW PLANT BEDS. LONG-TERM STORAGE OF MATERIALS OR SUPPLIES ON-SITE WILL NOT BE ALLOWED. ANY PLANT STOCK NOT PLANTED ON DAY OF DELIVERY SHALL BE HEELED IN AND WATERED UNTIL INSTALLATION. PLANTS NOT MAINTAINED IN THIS MANNER WILL BE REJECTED.
 - THE PLAN TAKES PRECEDENCE OVER THE PLANT SCHEDULE IF DISCREPANCIES EXIST. ADVISE LANDSCAPE ARCHITECT OF ANY DISCREPANCIES. CONTRACTOR TO STAKE PLANTING LOCATIONS FOR TREES AND PERENNIAL BEDS FOR LANDSCAPE ARCHITECT REVIEW PRIOR TO PLANTING OPERATIONS. CONTRACTOR TO PROVIDE ONE WEEK NOTICE TO LANDSCAPE ARCHITECT TO SCHEDULE.
 - PLANTING SOIL AMENDMENTS AND FINE GRADING TO BE COMPLETE AND APPROVED PRIOR TO PLANTING OPERATIONS.

- PROTECTION:**
- THE CONTRACTOR SHALL AVOID DAMAGING EXISTING TREES. DO NOT STORE OR DRIVE HEAVY MATERIALS OVER TREE ROOTS. DO NOT DAMAGE TREE BARK OR BRANCHES. REFER TO DETAILS FOR TREE PROTECTION.
 - THE CONTRACTOR SHALL KEEP PAVEMENTS, FIXTURES AND BUILDINGS CLEAN AND UNSTAINED. ANY DAMAGE TO EXISTING FACILITIES SHALL BE REPAIRED AT THE CONTRACTOR'S EXPENSE. THE PROJECT SITE SHALL BE KEPT CLEAR OF CONSTRUCTION WASTES AND DEBRIS.

- PLANT MATERIAL:**
- NO SUBSTITUTIONS OF PLANT MATERIAL SHALL BE ACCEPTED UNLESS APPROVED IN WRITING BY THE LANDSCAPE ARCHITECT. THE LANDSCAPE ARCHITECT RESERVES THE RIGHT TO REJECT ANY PLANTS WHICH ARE DEEMED UNSATISFACTORY.
 - ALL PLANTING STOCK SHALL CONFORM TO THE "AMERICAN STANDARD FOR NURSERY STOCK", ANSI-Z60, LATEST EDITION, OF THE AMERICAN ASSOCIATION OF NURSERYMEN, INC.
 - ALL PLANTS SHALL BE GUARANTEED FOR ONE YEAR FROM DATE OF OWNER'S ACCEPTANCE, UNLESS OTHERWISE SPECIFIED. REFER TO SPECIFICATION.
 - FOR ALL AREAS DISTURBED BY THE CONTRACTOR'S OPERATION, THE CONTRACTOR SHALL FILL TO FINISHED SUBGRADE ELEVATION AND PROVIDE 6" TOPSOIL AND PROVIDE SEEDING OR SOD REPLACEMENT OF OWNER'S CHOICE.
 - REFER TO 31 20 00 AND 32 93 00 FOR PLANTINGS, PLANTING SOIL, AND MULCH REQUIREMENTS.

- MAINTENANCE AND CARE:**
- MAINTENANCE SHALL BE PROVIDED IMMEDIATELY AFTER EACH PORTION OF THE WORK IS IN PLACE.
 - THERE ARE TWO WARRANTY PERIODS THAT EFFECT MAINTENANCE AND WATERING REQUIREMENTS. REFER TO SPECIFICATIONS FOR FULL INSPECTION, MAINTENANCE, AND WARRANTY REQUIREMENTS.

ALL CONTRACTORS AND SUBCONTRACTORS SHALL VERIFY ALL DIMENSIONS BY MEASUREMENT AT THE BUILDING AND/OR SITE



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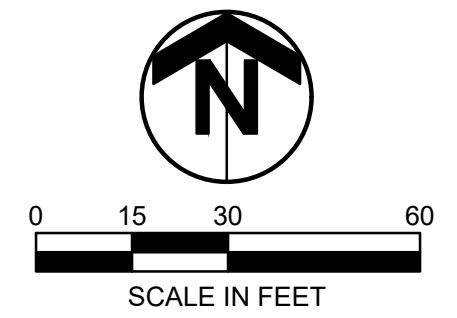
SIGNATURE:
 PRINTED NAME: STEVEN D. FOSS
 LIC. NO.: 56852 DATE: 2025-04-07

DESIGNED	DRAWN	CHECKED	SDF

LANDSCAPE PLAN - NORTH

C600

21157.000



Jun 11, 2025 - 1:34pm
 \\tkda.com\projects\la-f\CarletonCollege\2115700004_Production\01_CAD\02_Sheets\C600_LANDSCAPE PLANS_06_10_25.dwg



- LEGEND**
- RIGHT OF WAY
 - - - - - APPROXIMATE CONSTRUCTION LIMITS
 - [Pattern: Dotted] DRY SHORT PRAIRIE SEED MIX
SEE SPEC
 - [Pattern: Diagonal Lines] INFILTRATION BASIN SEED MIX
SEE SPEC
 - [Pattern: Horizontal Lines] WESTERN RED CEDAR MULCH
SEE SPEC

2

ALL CONTRACTORS AND SUBCONTRACTORS SHALL VERIFY ALL DIMENSIONS BY MEASUREMENT AT THE BUILDING AND/OR SITE

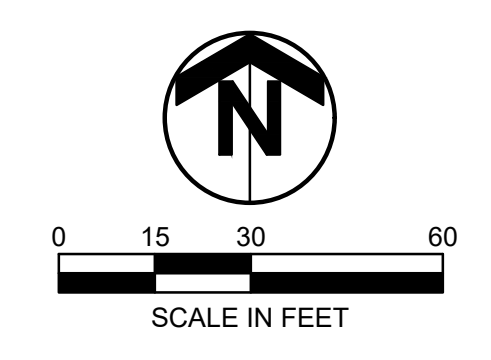
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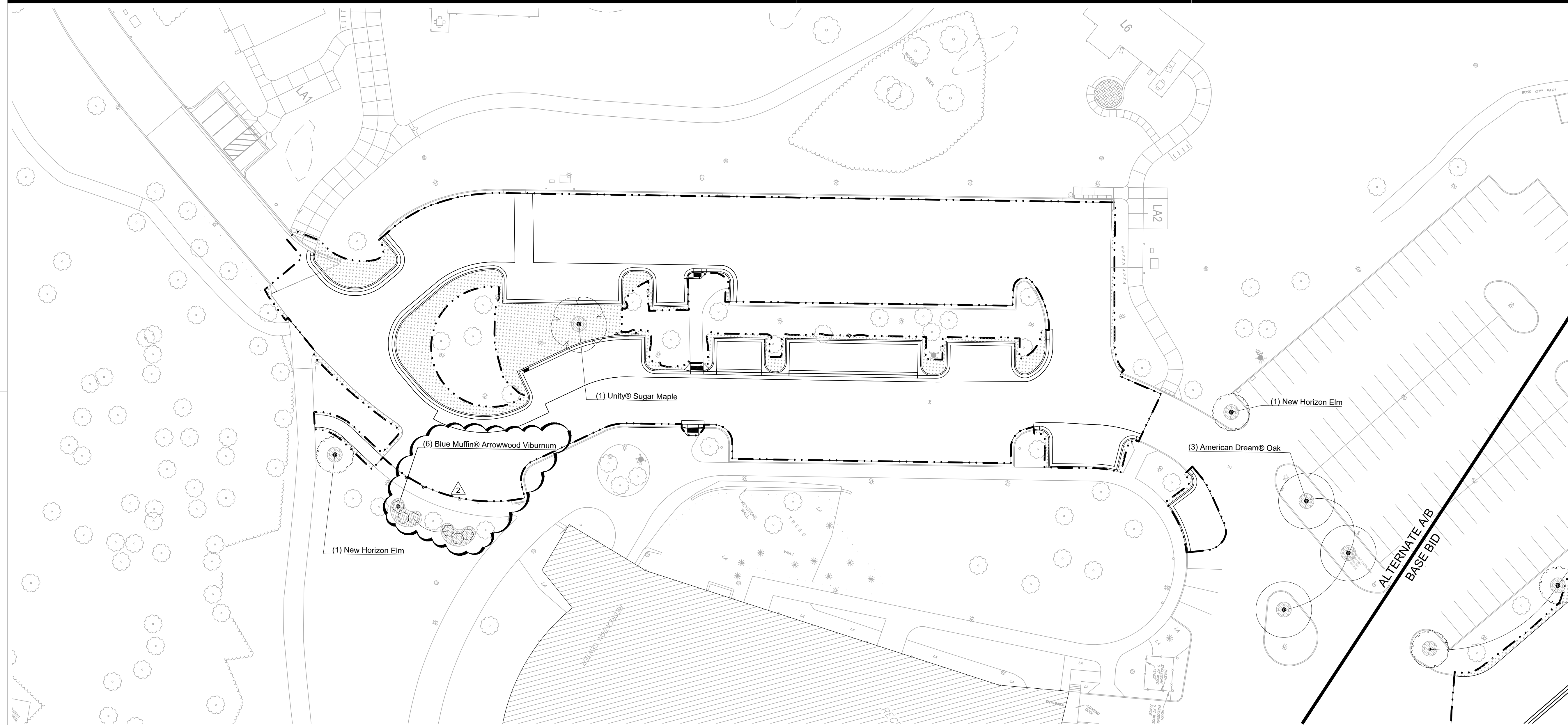
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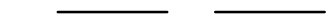



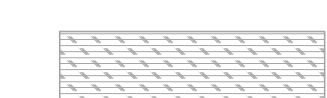
SIGNATURE: *[Signature]*
 PRINTED NAME: STEVEN D. FOSS
 LIC. NO.: 56852 DATE: 2025-04-07

DESIGNED	DRAWN	CHECKED
SDF	SDF	SDF





LEGEND

-  RIGHT OF WAY
-  APPROXIMATE CONSTRUCTION LIMITS
-  DRY SHORT PRAIRIE SEED MIX
SEE SPEC
-  INFILTRATION BASIN SEED MIX
SEE SPEC
-  WESTERN RED CEDAR MULCH
SEE SPEC

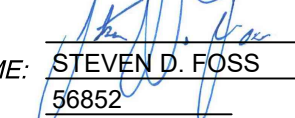
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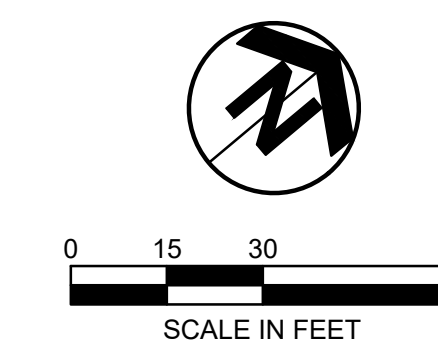
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DESIGNED	DRAWN	CHECKED	SDF

**LANDSCAPE PLAN -
REC CENTER**

C602

21157.000

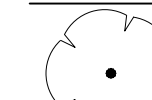




SYMBOL	BOTANICAL / COMMON NAME	SIZE	CONTAINER	QTY
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CONIFEROUS TREES



	Abies balsamea / Balsam Fir	6' Ht.	B&B	8
	Picea abies / Norway Spruce	6' Ht.	B&B	3

DECIDUOUS TREES

	Acer saccharum 'Jefcan' / Unity® Sugar Maple	2" Cal.	B&B	4
	Quercus bicolor 'JFS-KW12' / American Dream® Oak	2" Cal.	B&B	5
	Ulmus japonica x pumila 'New Horizon' / New Horizon Elm	2" Cal.	B&B	7

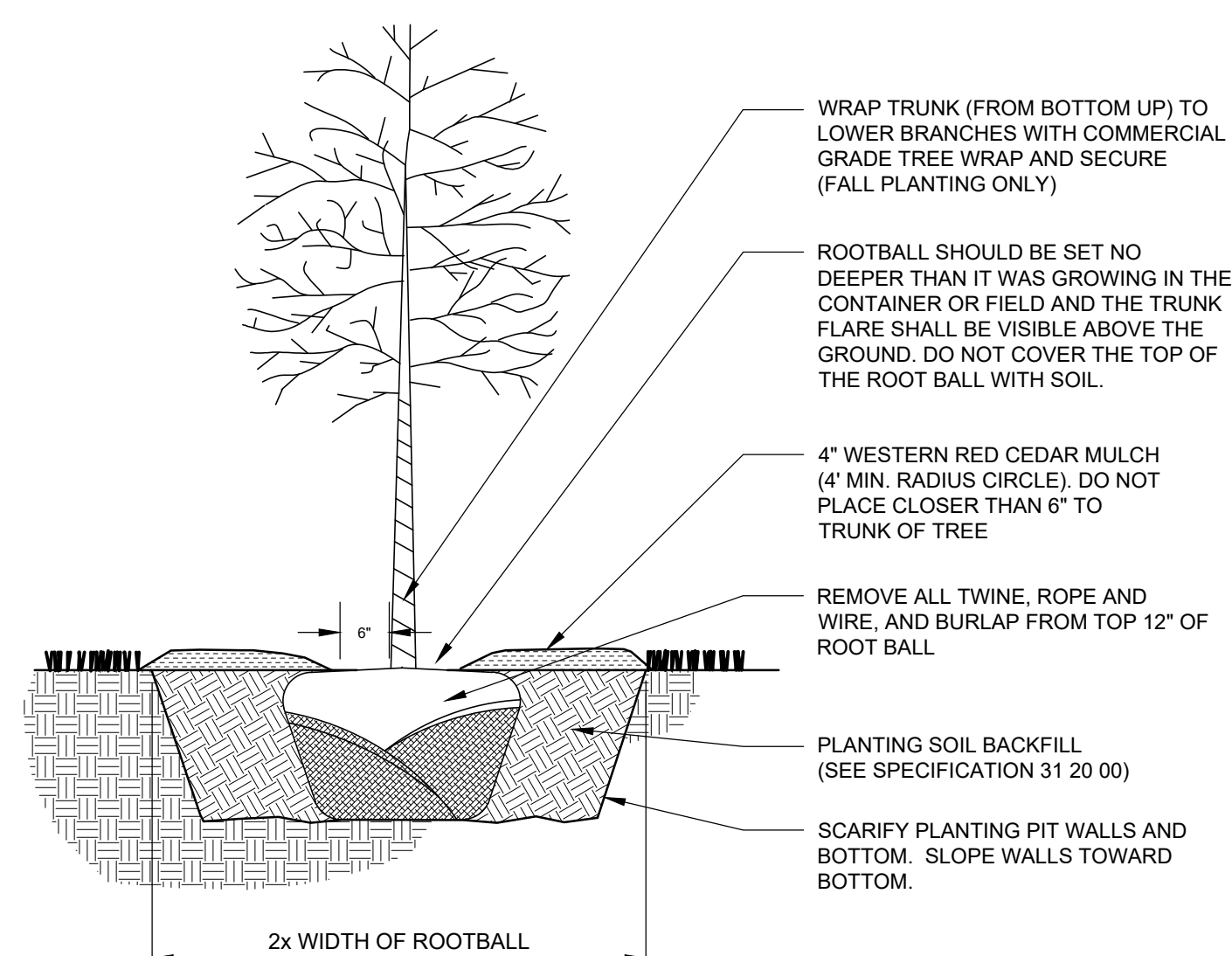
SYMBOL	CODE	BOTANICAL / COMMON NAME	SIZE	CONTAINER	QTY
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SHRUBS

	Viburnum dentatum 'Christom' / Blue Muffin® Arrowwood Viburnum	5 gal.	CONT.	6
	Viburnum lantana 'Mohican' / Mohican Viburnum	5 gal.	CONT.	9

1 PLANTING SCHEDULE

C603 NO SCALE



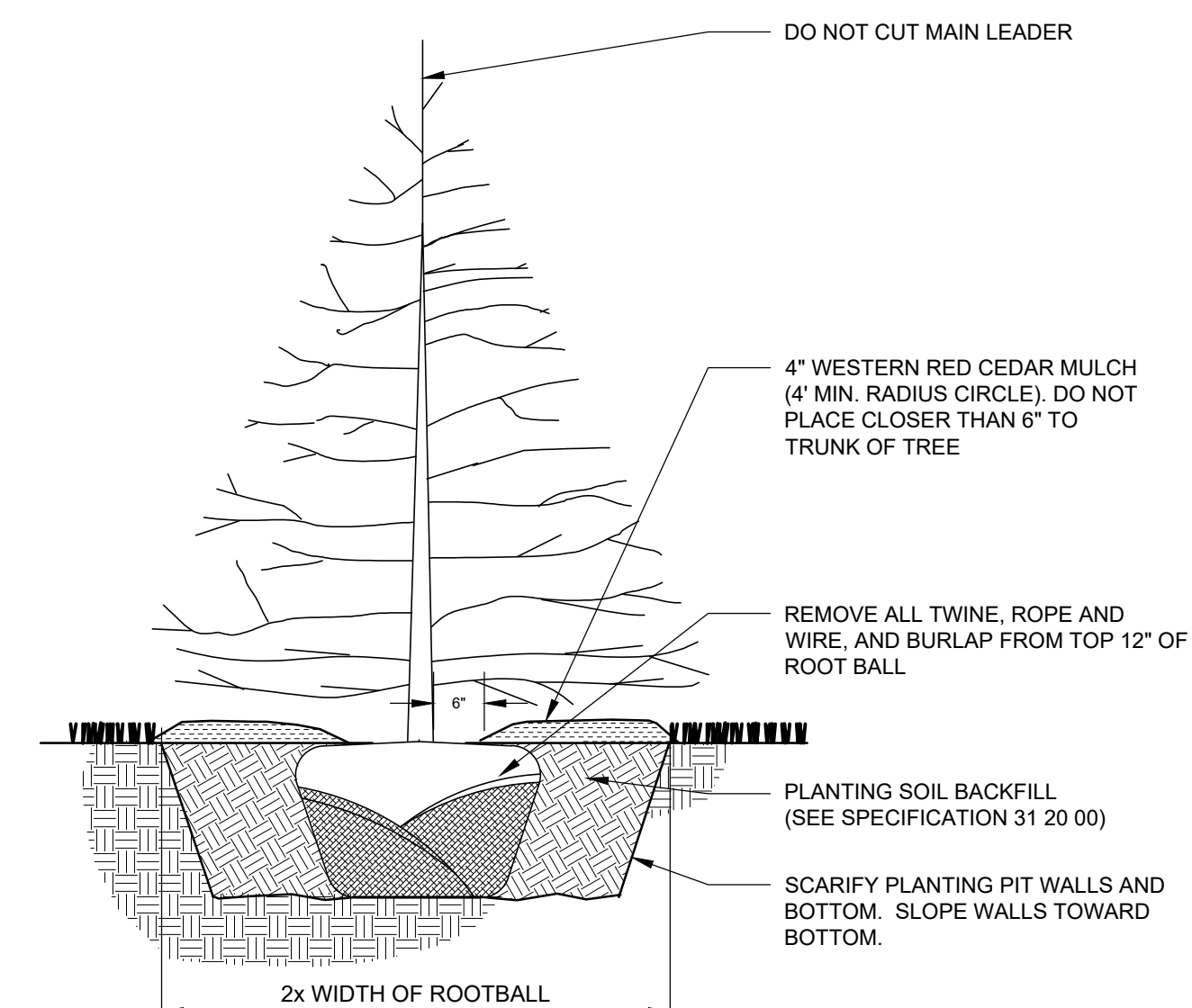
TREE SHALL BE PRUNED IMMEDIATELY AFTER PLANTING TO REMOVE DEAD, BROKEN, DISEASED, DYING OR RUBBING BRANCHES. CO-DOMINANT STEMS LESS THAN 4" IN DIA. AT THE FORK SHALL BE PRUNED OFF AND ONE MAIN STEM SHOULD REMAIN. TREE TOPPING OR HEADING IS NOT PERMITTED AT ANY TIME. STAKING IS NOT REQUIRED, BUT IF INSTALLED IT SHALL BE REMOVED NO LATER THAN ONE YEAR AFTER PLANTING

MARK THE NORTH SIDE OF THE TREE IN THE NURSERY AND ROTATE TREE TO FACE NORTH AT THE SITE WHENEVER POSSIBLE

SET TREE PLUMB

2 DECIDUOUS TREE PLANTING DETAIL

C603 NO SCALE



TREE SHALL BE PRUNED IMMEDIATELY AFTER PLANTING TO REMOVE DEAD, BROKEN, DISEASED, DYING OR RUBBING BRANCHES. CO-DOMINANT STEMS LESS THAN 4" IN DIA. AT THE FORK SHALL BE PRUNED OFF AND ONE MAIN STEM SHOULD REMAIN. TREE TOPPING OR HEADING IS NOT PERMITTED AT ANY TIME. STAKING IS NOT REQUIRED, BUT IF INSTALLED IT SHALL BE REMOVED NO LATER THAN ONE YEAR AFTER PLANTING

SET TREE PLUMB, STAKING AND GUYING AS NECESSARY

3 EVERGREEN TREE PLANTING DETAIL

C603 NO SCALE


ALL CONTRACTORS AND SUBCONTRACTORS SHALL VERIFY ALL DIMENSIONS BY MEASUREMENT AT THE BUILDING AND/OR SITE

0 1

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LIC. NO.: 56852 DATE: 2025-04-07

DESIGNED	DRAWN	CHECKED
SDF	SDF	SDF

**PLANTING SCHEDULE
AND DETAILS**

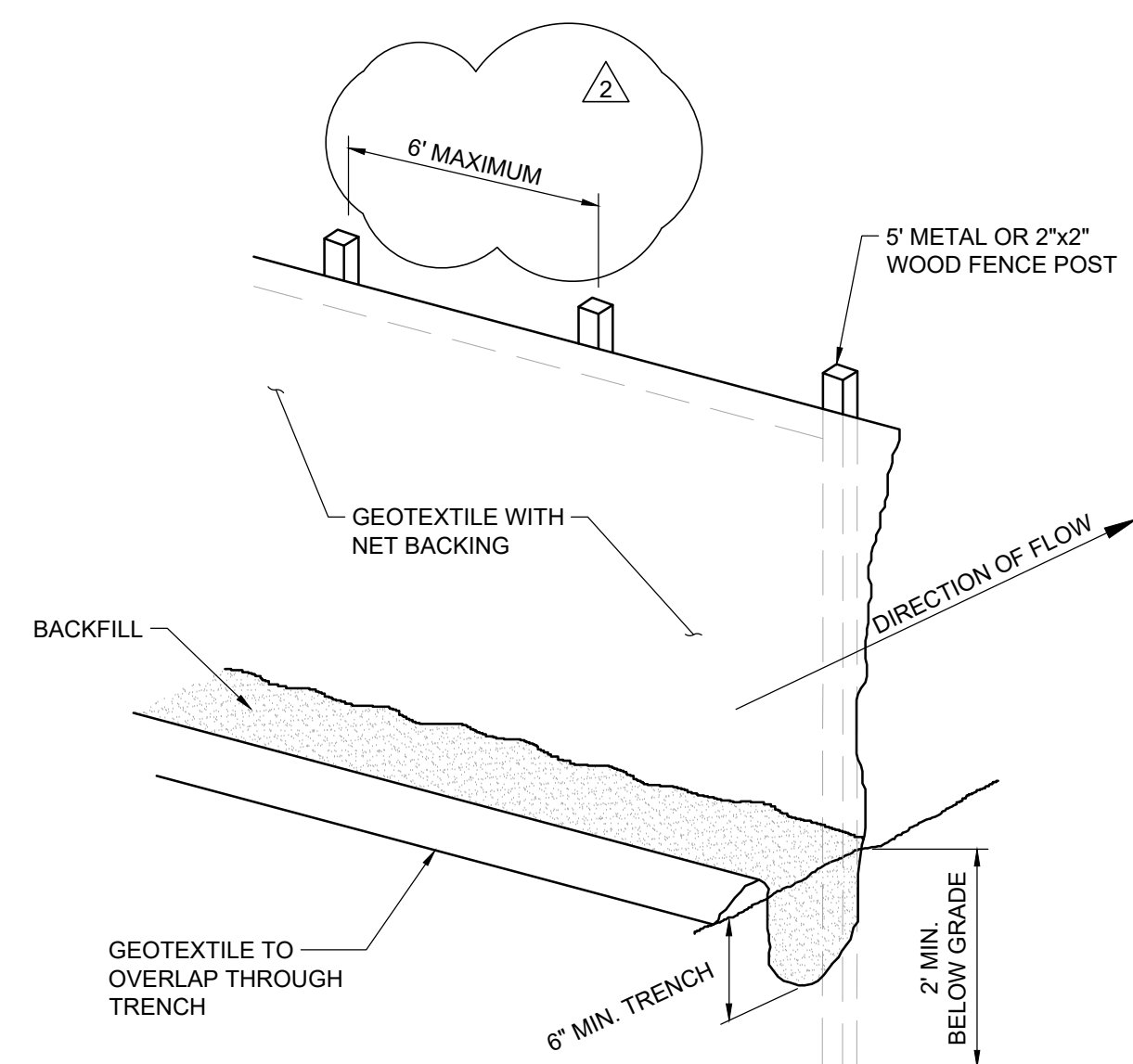
C603

21157.000

EXHIBIT H

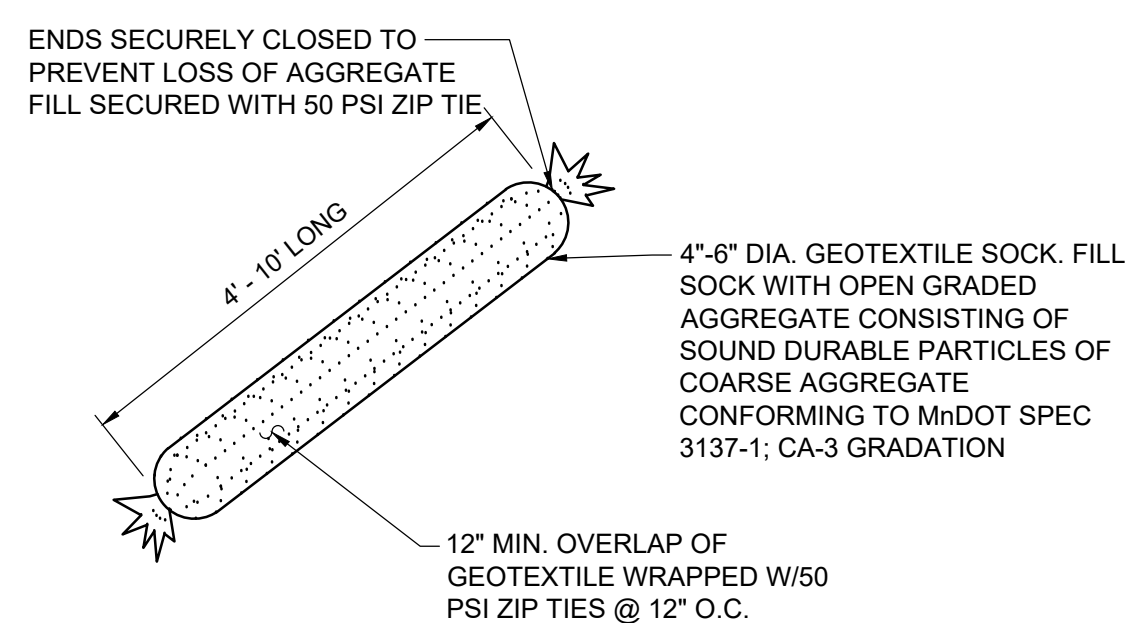
Site Details (C700 – C705)

**THREE OAKS
DRIVE
RECONSTRUCTION**

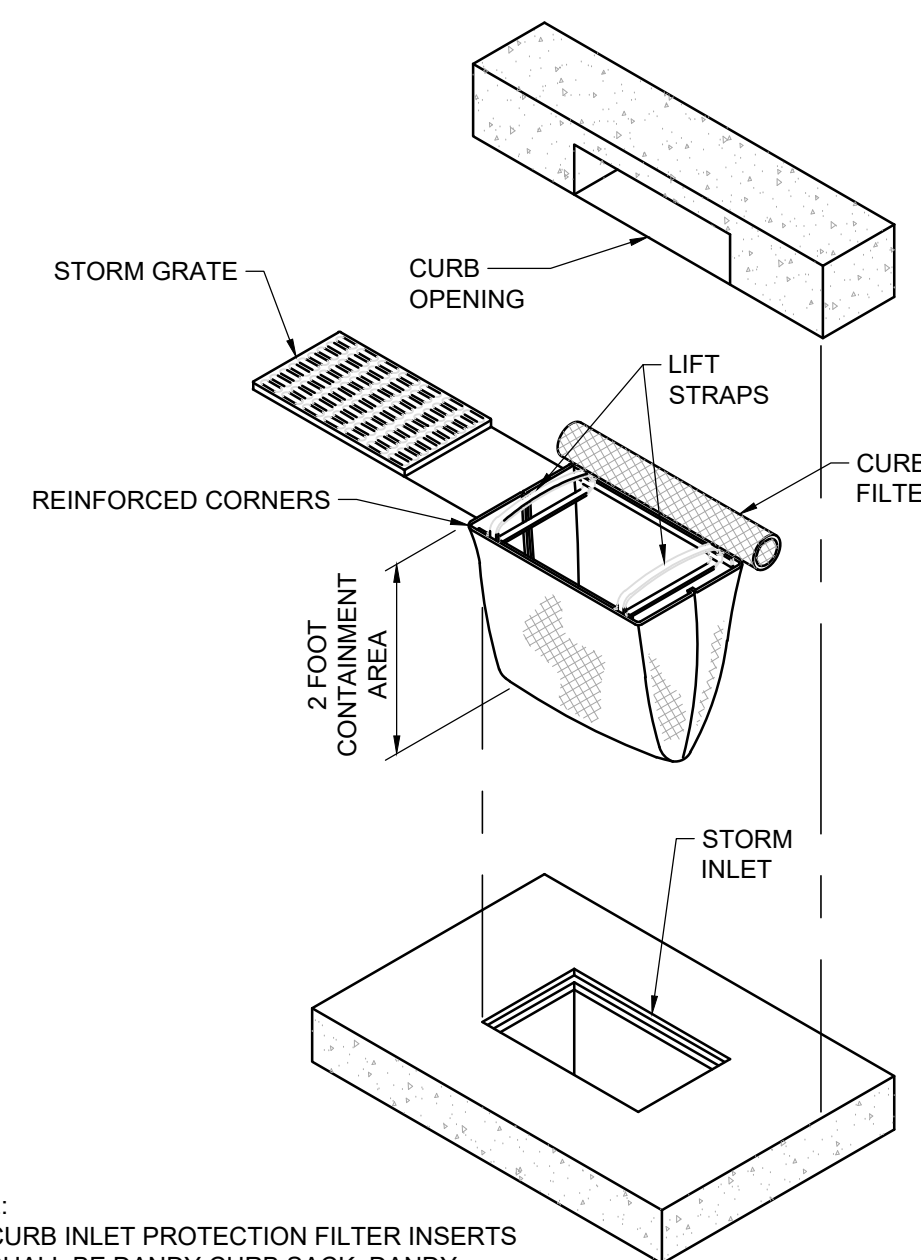


NOTE:
1. SILT FENCE SHALL CONFORM TO MNDOT 3886, TYPE B.
2. FENCING SHALL BE PLACED ALONG CONTOURS OR AS DIRECTED BY ENGINEER.

1 SILT FENCE
C700 NO SCALE

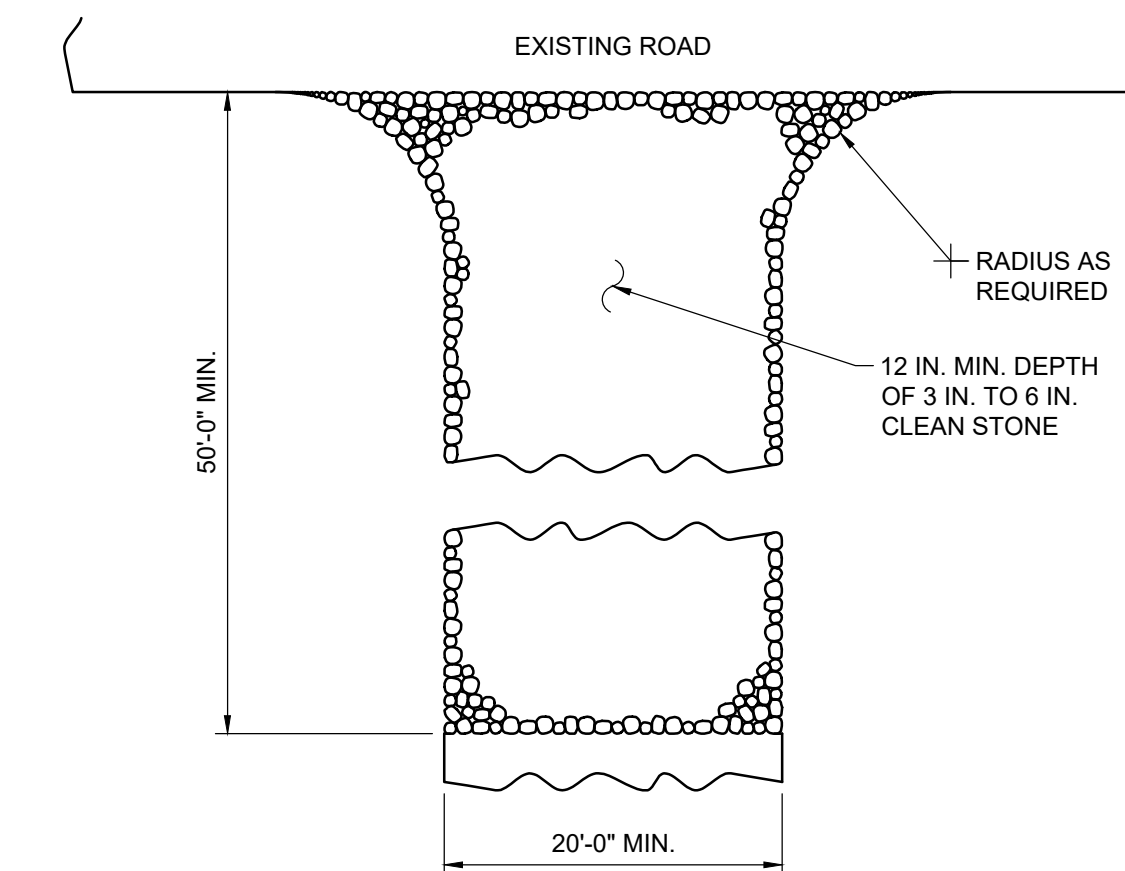


2 ROCK FILTER LOG TYPE
C700 NO SCALE



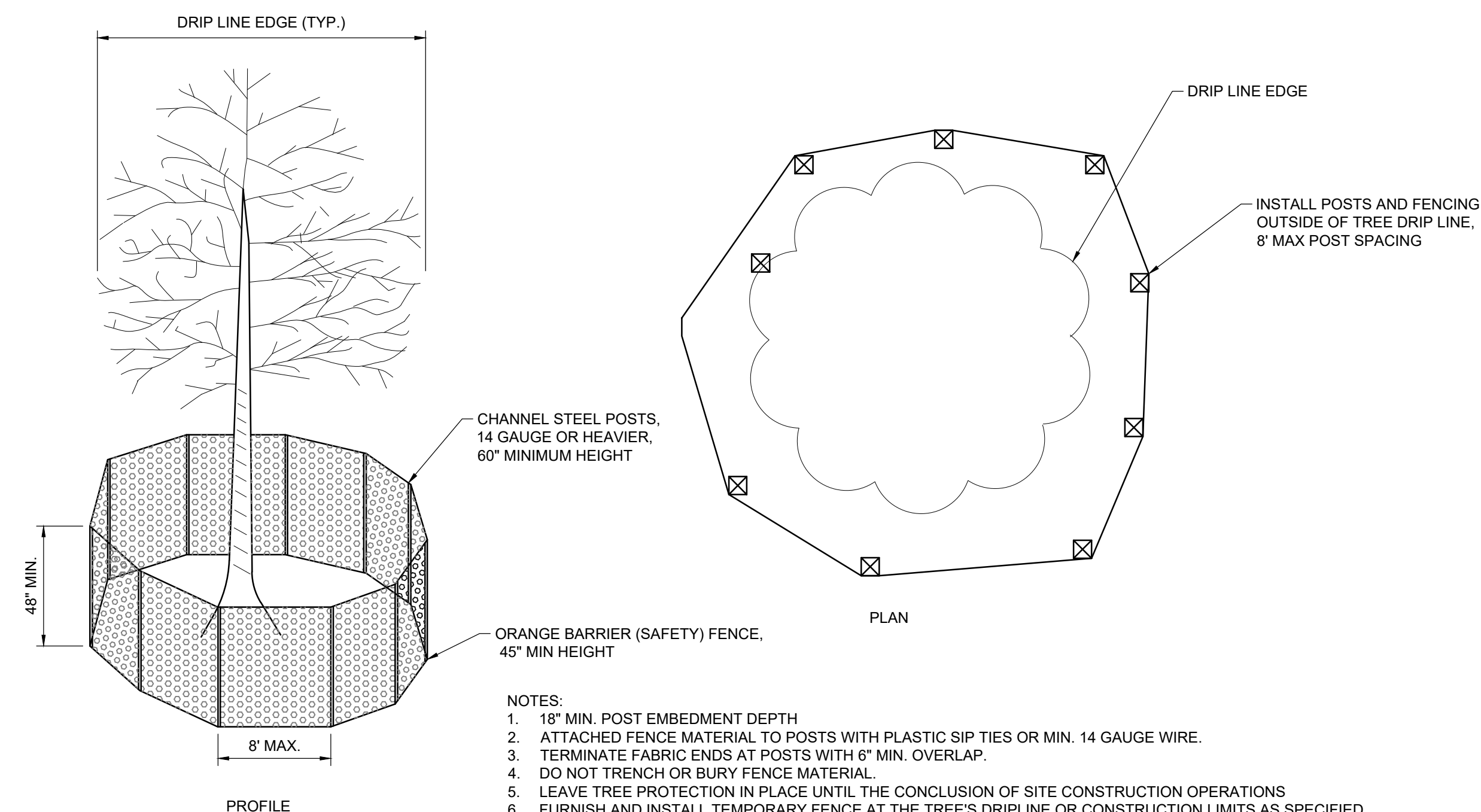
NOTE:
1. CURB INLET PROTECTION FILTER INSERTS SHALL BE DANDY CURB SACK, DANDY PRODUCTS INC. OR APPROVED EQUAL.

3 STORM INLET PROTECTION DETAIL
C700 NO SCALE



NOTES:
• ROCK MATERIAL SHALL BE REMOVED AND REPLACED AS VOIDS BECOME FILLED WITH SEDIMENT. ROCK MAY ALSO BE REMOVED, WASHED AND RESET TO ENSURE EFFICIENT REMOVAL AND PREVENT TRACKING ONTO PUBLIC ROADWAYS.
• MOUND ROCK MATERIAL AT ENTRANCE TO PAVED ROAD TO PREVENT RUNOFF FROM SITE ONTO ROAD VIA CONSTRUCTION ENTRANCE.

4 ROCK CONSTRUCTION ENTRANCE
C700 NO SCALE



NOTES:
1. 18" MIN. POST EMBEDMENT DEPTH
2. ATTACHED FENCE MATERIAL TO POSTS WITH PLASTIC SIP TIES OR MIN. 14 GAUGE WIRE.
3. TERMINATE FABRIC ENDS AT POSTS WITH 6" MIN. OVERLAP.
4. DO NOT TRENCH OR BURY FENCE MATERIAL.
5. LEAVE TREE PROTECTION IN PLACE UNTIL THE CONCLUSION OF SITE CONSTRUCTION OPERATIONS
6. FURNISH AND INSTALL TEMPORARY FENCE AT THE TREE'S DRIPLINE OR CONSTRUCTION LIMITS AS SPECIFIED PRIOR TO CONSTRUCTION.
7. WHEN POSSIBLE, PLACE FENCE 25 FEET BEYOND DRIPLINE.
8. PLACE TREE PROTECTION SIGNS AT 50' INTERVALS ALONG FENCE.
9. DAMAGED / RIPPED ROOTS WOULD NEED TO BE CUT CLEAN, PAINTED WITH ROOT PROTECTANT, AND COVERED WITH SOIL AND WOOD MULCH BY A CERTIFIED ARBORIST.

5 TREE PROTECTION
C700 NO SCALE

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0 1
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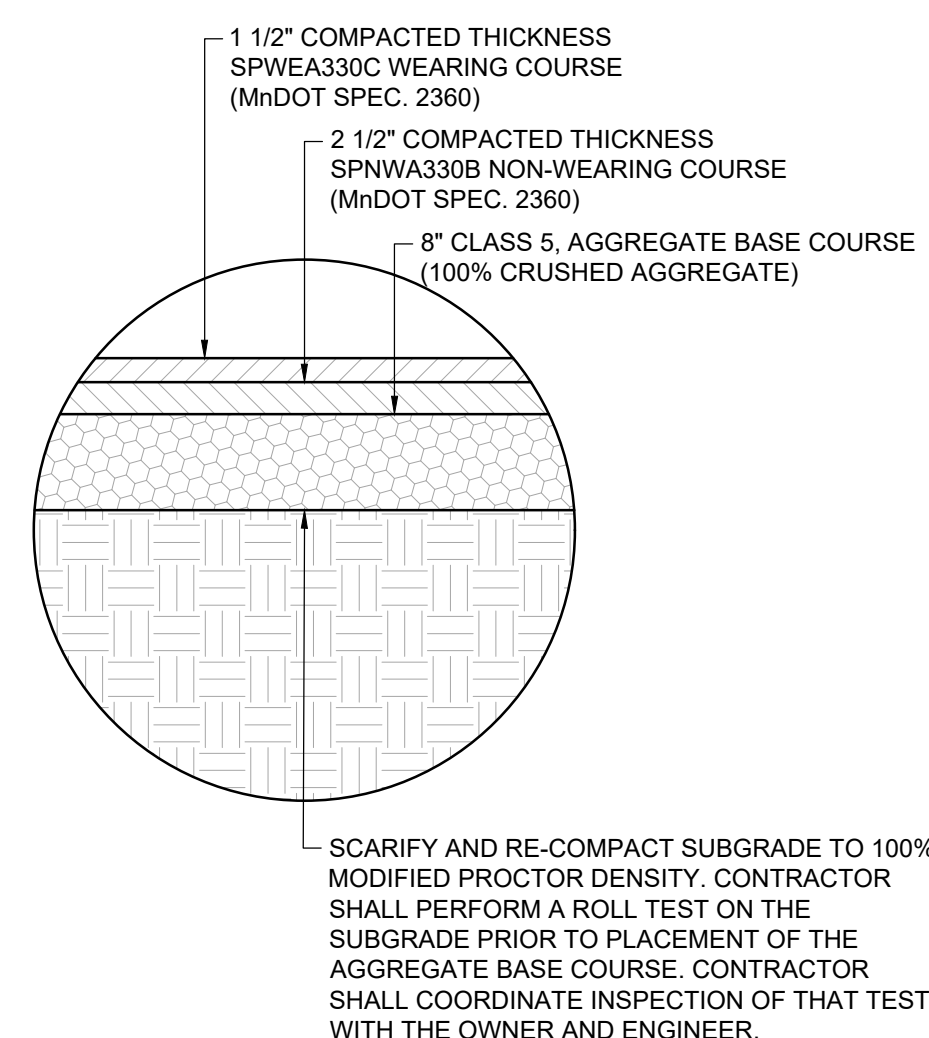
SIGNATURE: *Amanda Kieffer*
PRINTED NAME: AMANDA KIEFFER
LIC. NO.: 56216 DATE: 2025-04-07

DESIGNED	DRAWN	CHECKED
AMK	TTK	BPK

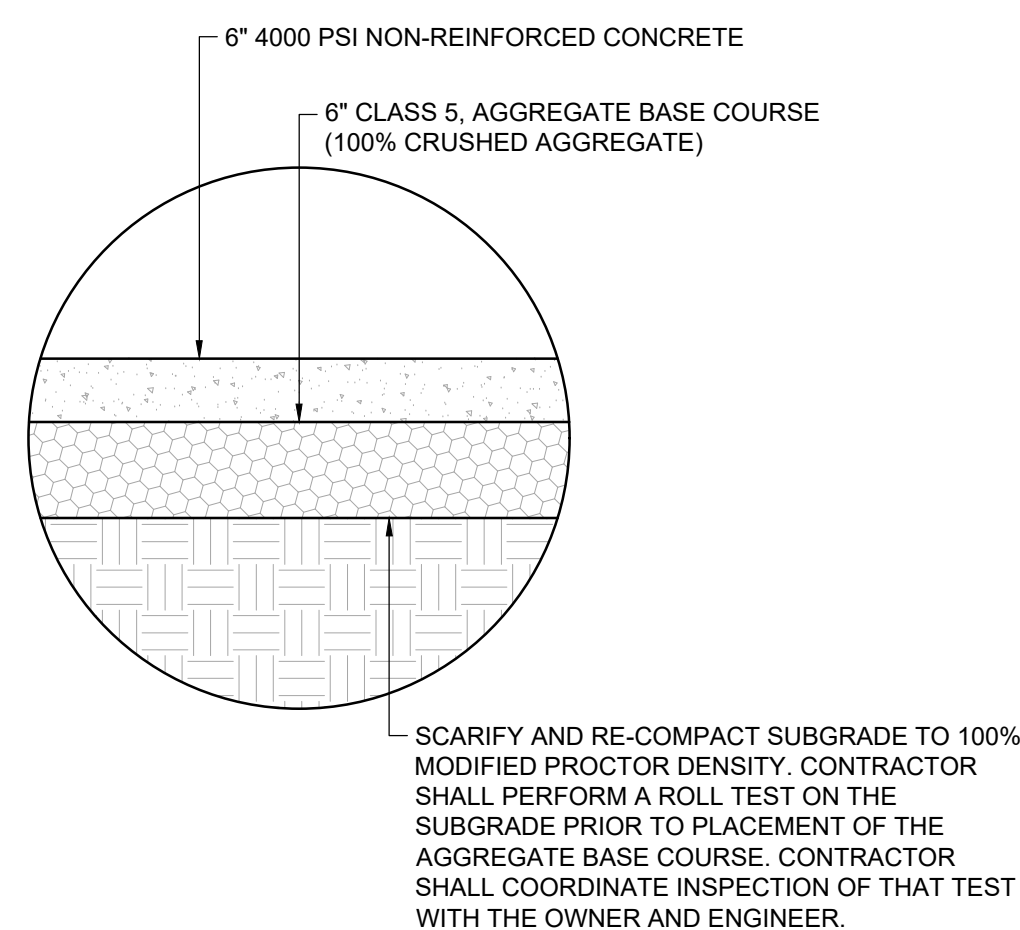
SITE DETAILS

C700

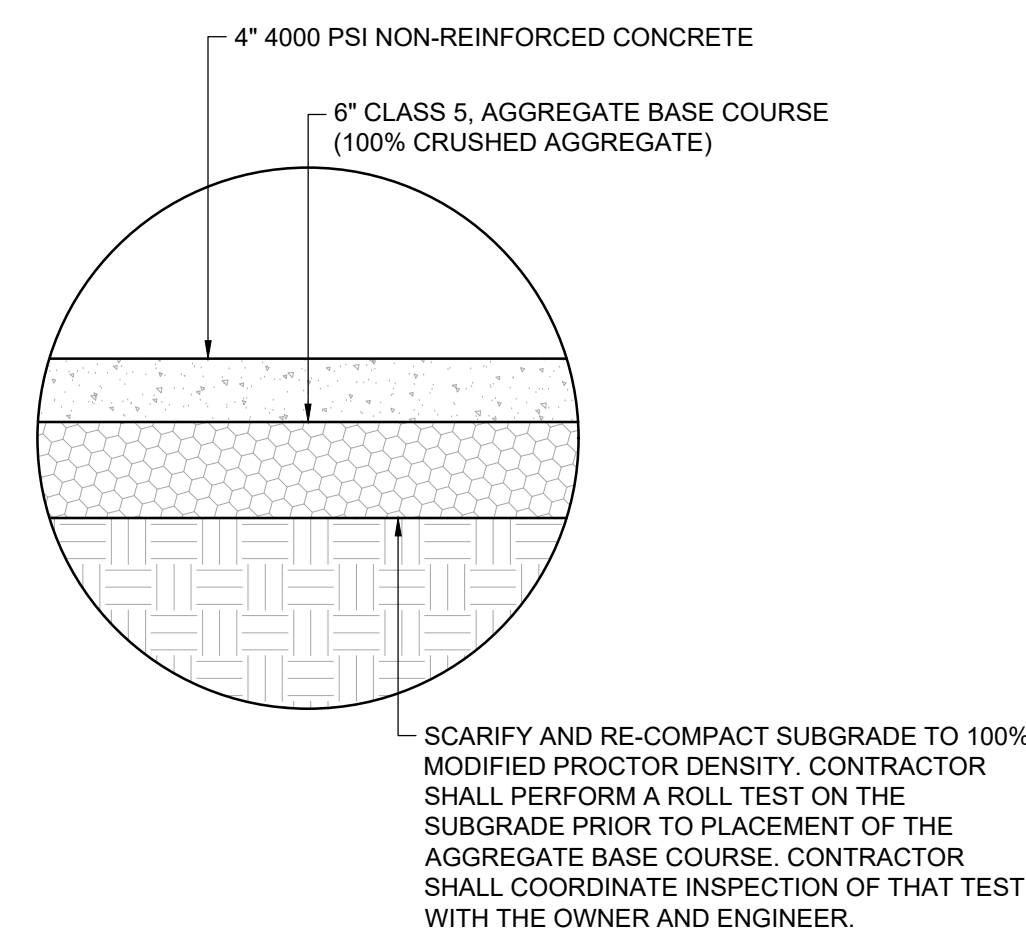
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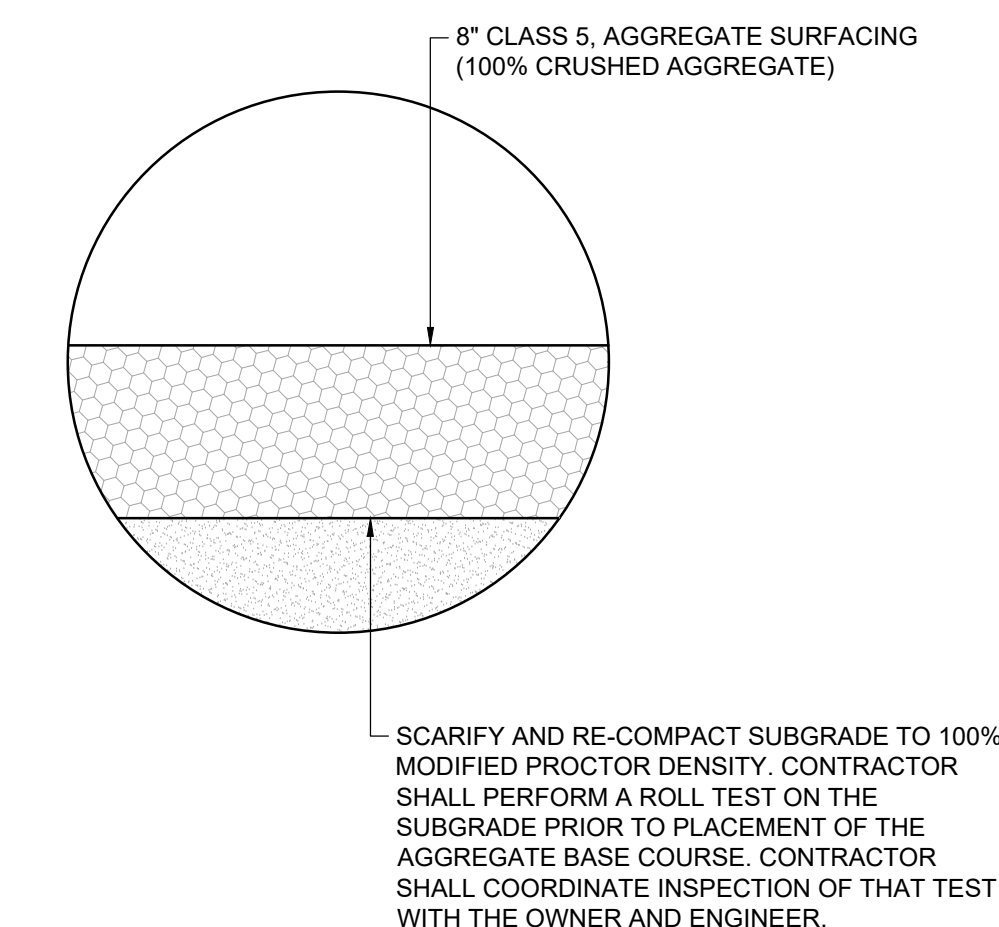
1 BITUMINOUS PAVEMENT SECTION
C701 NO SCALE



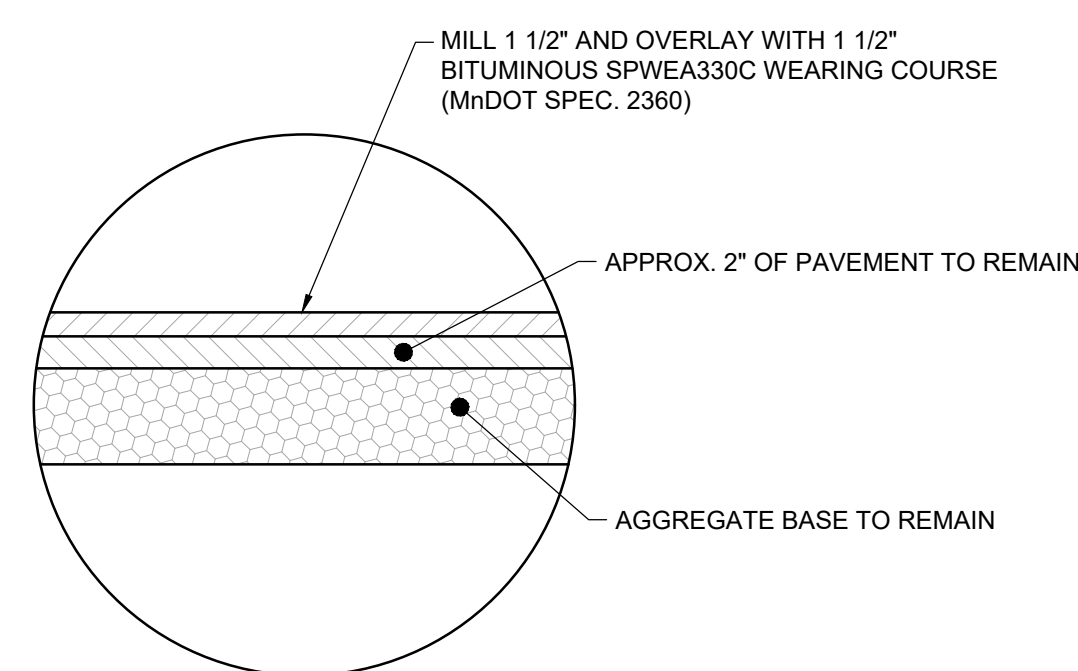
2 CONCRETE PAVEMENT SECTION
C701 NO SCALE



3 CONCRETE SIDEWALK SECTION
C701 NO SCALE

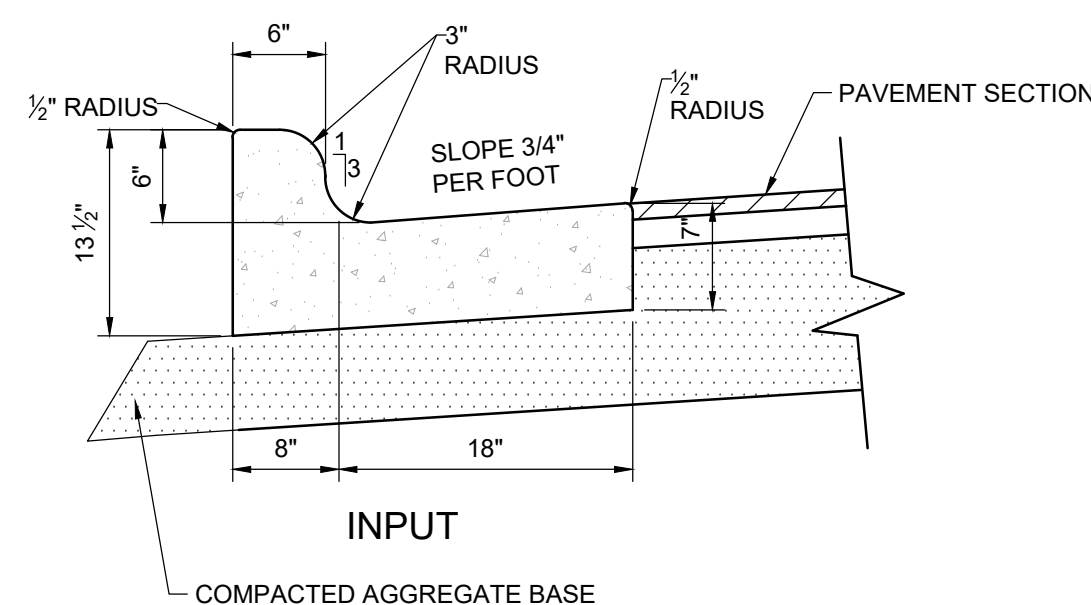


4 AGGREGATE SURFACING SECTION
C701 NO SCALE

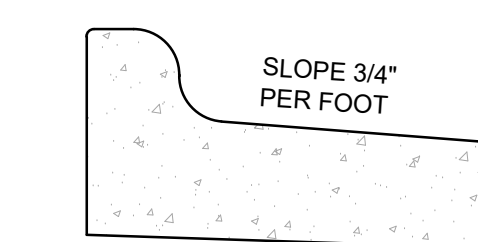


- NOTES:
- MARK AND PROTECT ALL IN PLACE STRUCTURES. REPAIR OR REPLACE IN-PLACE STRUCTURES DAMAGED OR DISTURBED BY MILLING OPERATIONS.
 - IF TRAFFIC IS OPENED PRIOR TO WEARING COURSE INSTALLATION, CONTRACTOR SHALL:
 - CONDUCT OPERATION TO PROVIDE A FLUSH SURFACE OVER THE ENTIRE PAVEMENT WIDTH.
 - CONSTRUCT TEMPORARY TAPERS TO ADJACENT UNMILLED PAVEMENT SURFACES, AND
 - PROTECT EXPOSED STRUCTURES FROM DAMAGE BY TRAFFIC.
 - CONTRACTOR SHALL SWEEP OR VACUUM ALL MILLED SURFACES AND RECYCLE OR DISPOSE OF RESULTING DEBRIS IN ACCORDANCE WITH LOCAL LAWS AND ORDINANCES.

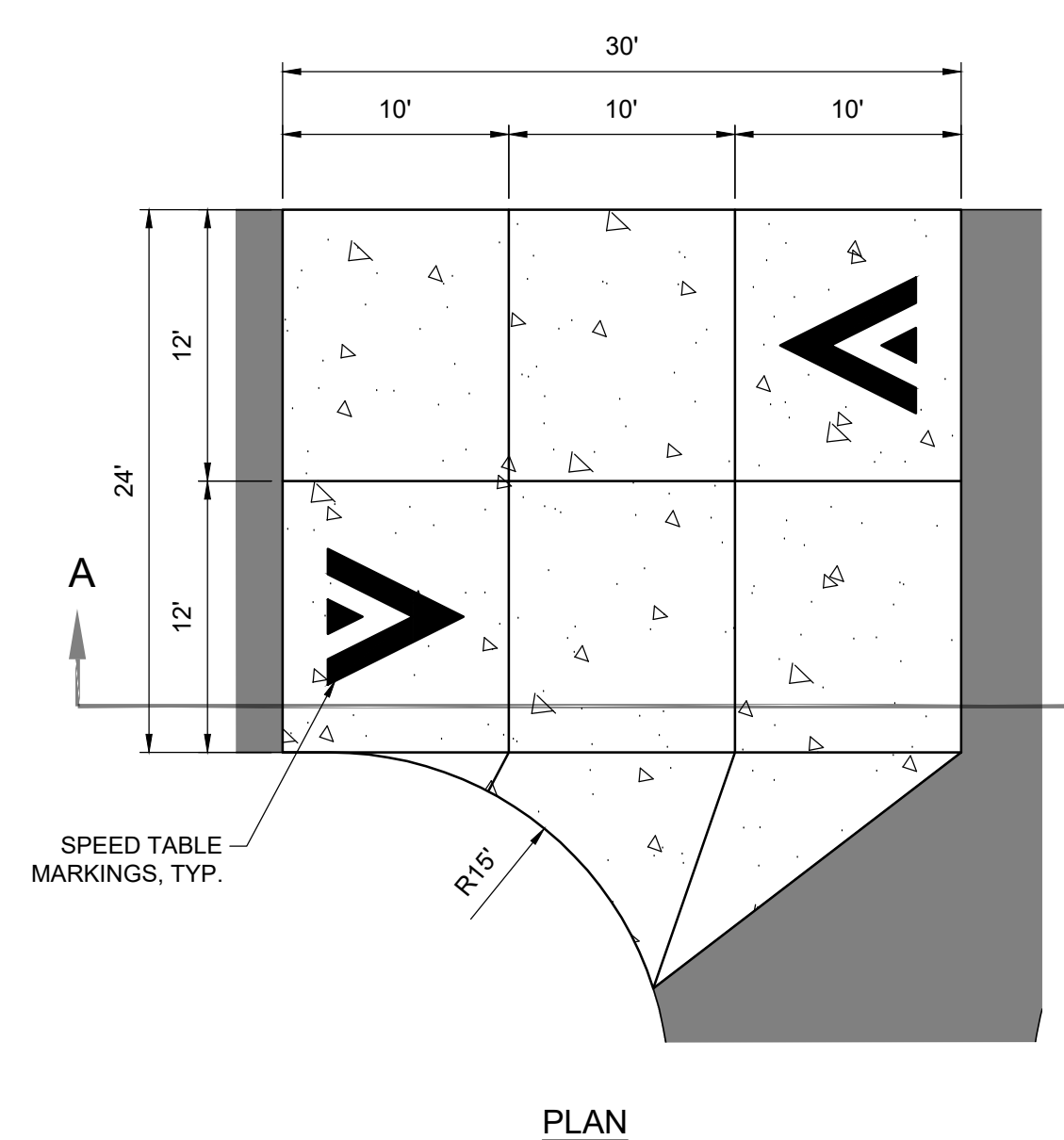
8 MILL AND OVERLAY SECTION
C701 NO SCALE



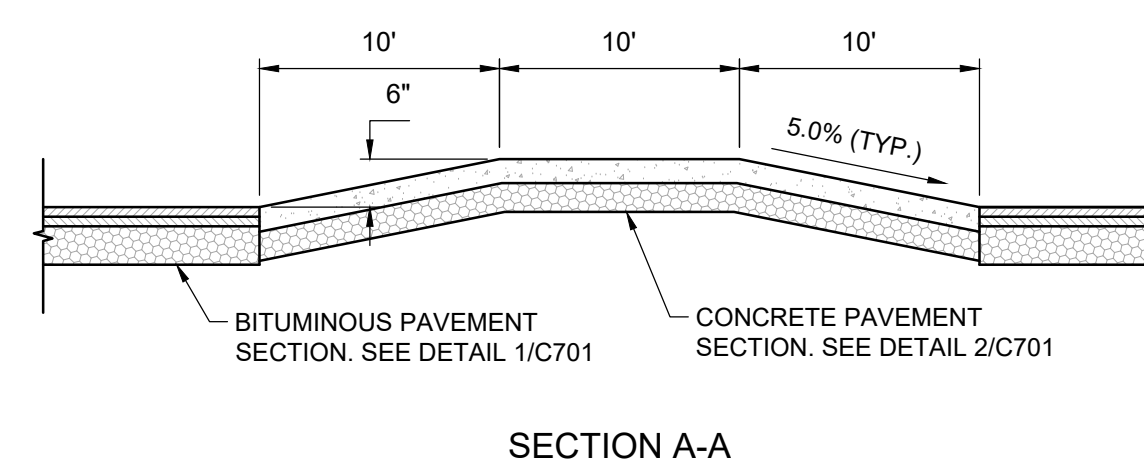
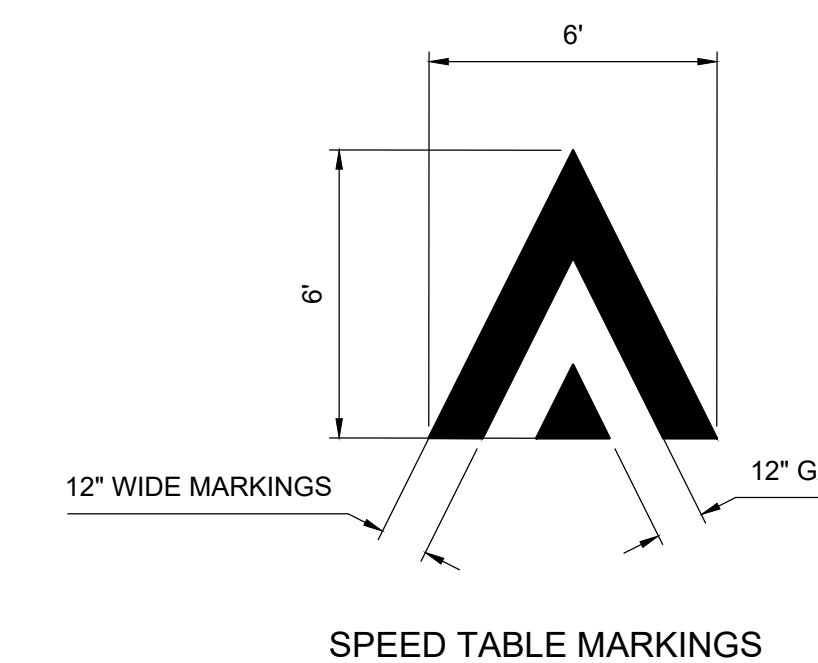
B618 CURB AND GUTTER DETAIL
C701 NO SCALE



6 CONCRETE VALLEY GUTTER
C701 NO SCALE



7 SPEED TABLE
C701 NO SCALE



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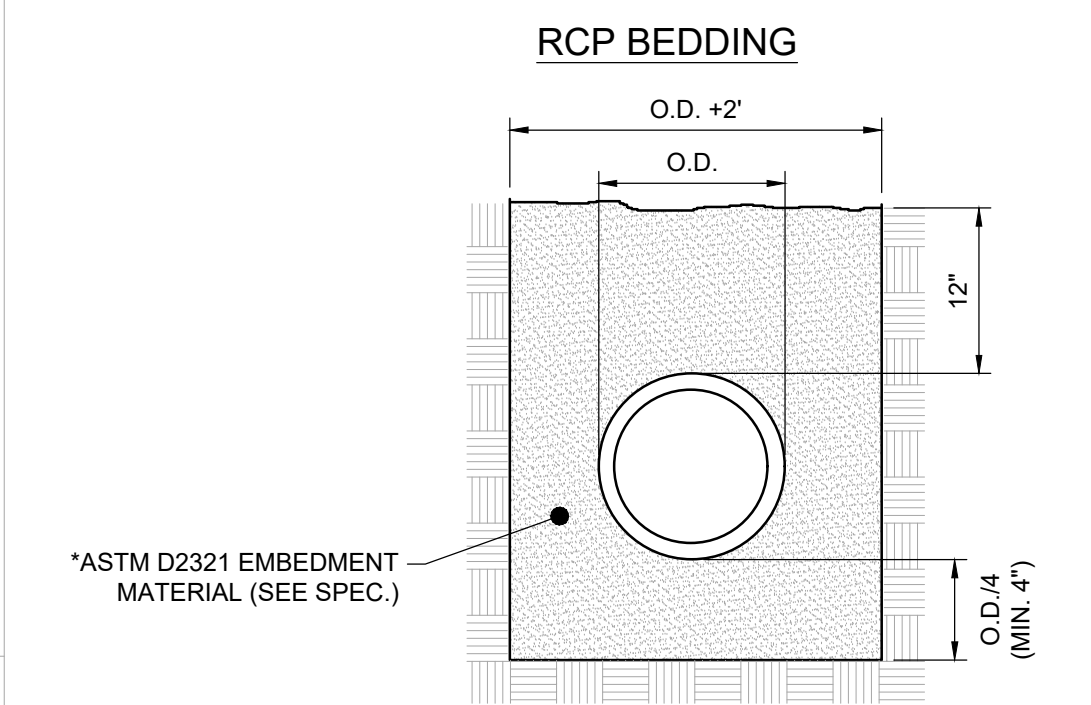
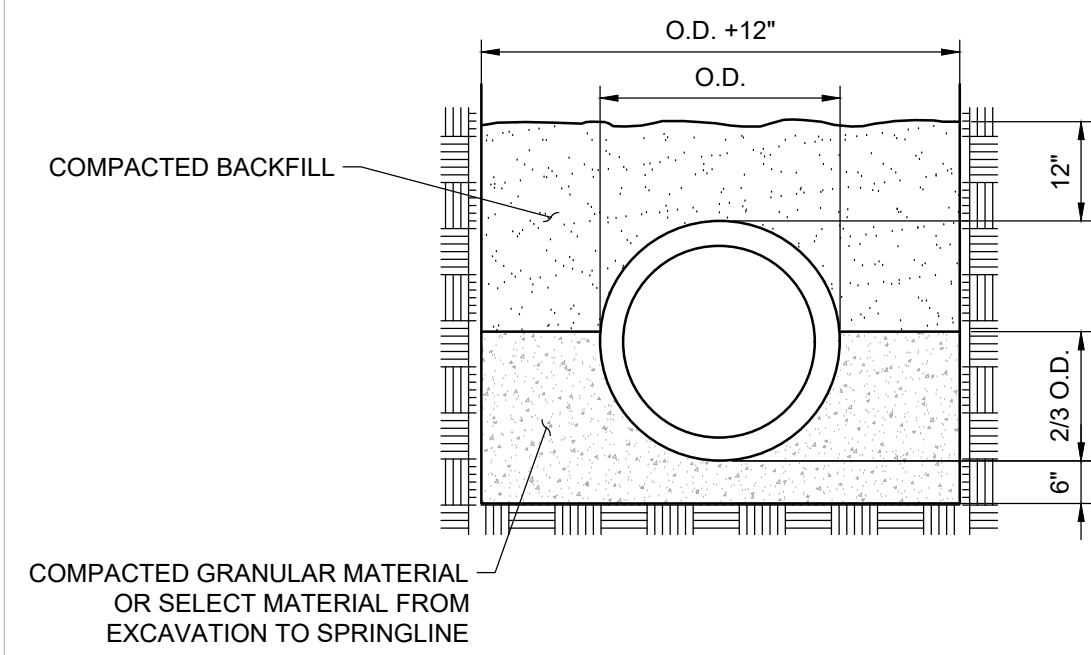
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DESIGNED	DRAWN	CHECKED	BPK
AMK	TTK		

SITE DETAILS

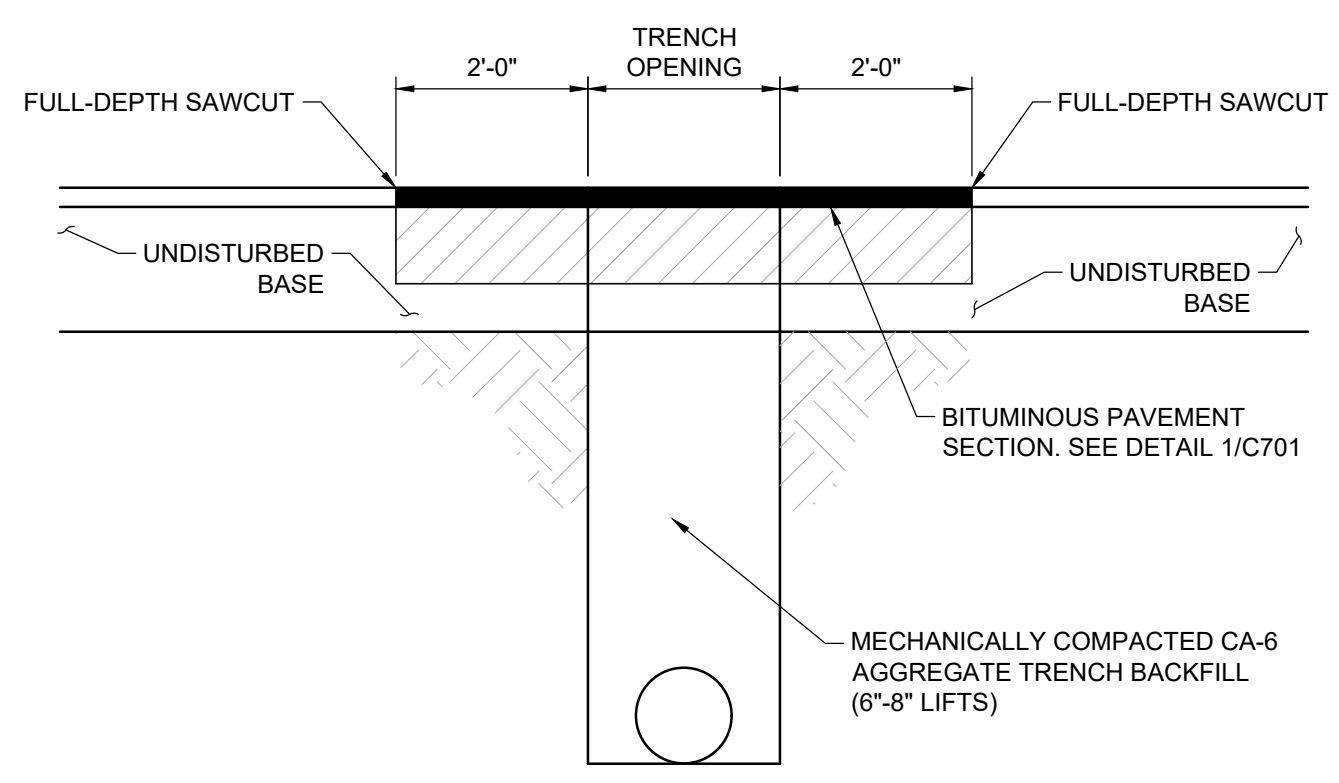
C701

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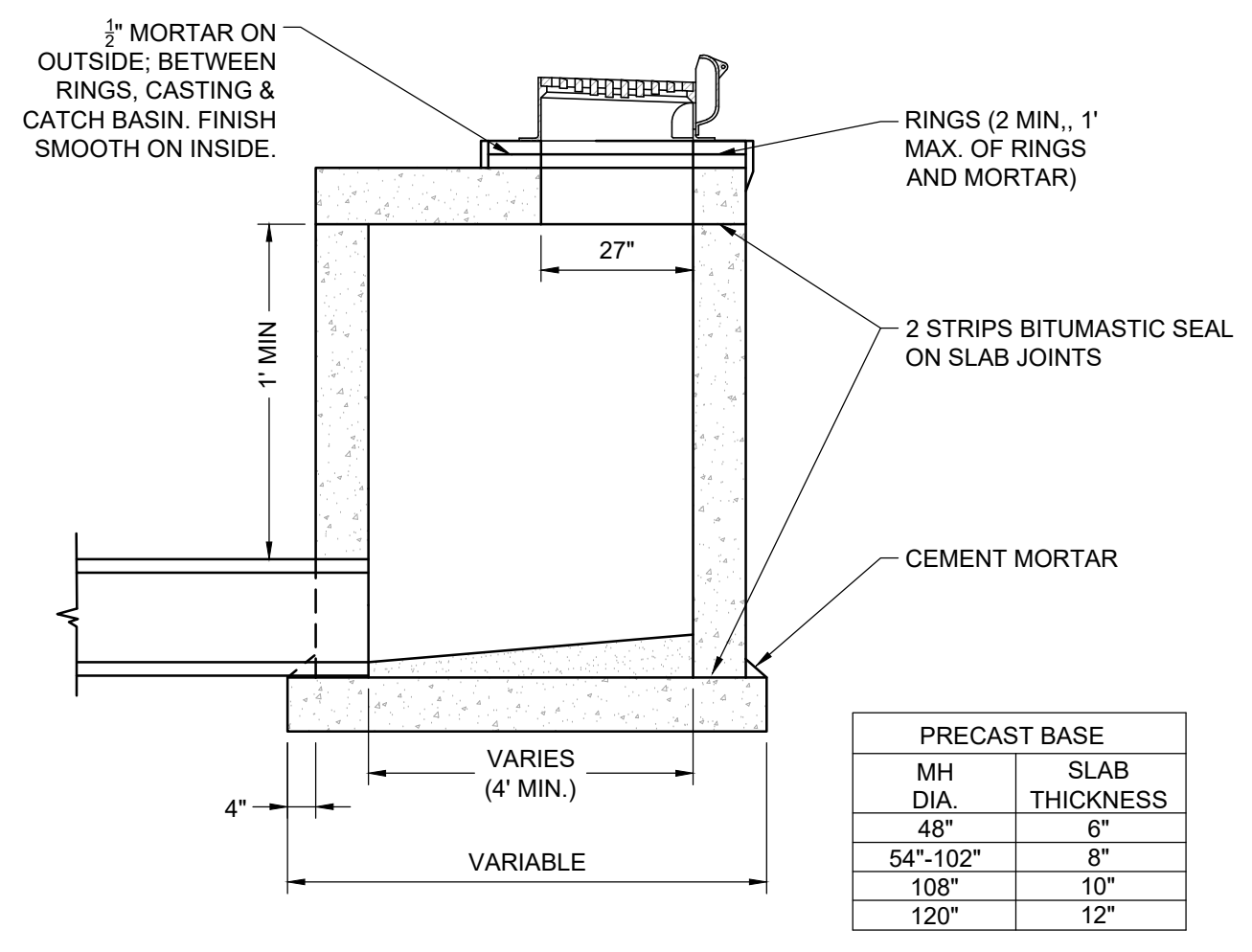


PIPE INSTALLATION IN ACCORDANCE WITH ASTM D2321, TABLE 2
*EMBEDMENT MATERIAL SHALL CONFORM TO ASTM D2321, TABLE 1.

1 PIPE BEDDING DETAIL
C702 NO SCALE

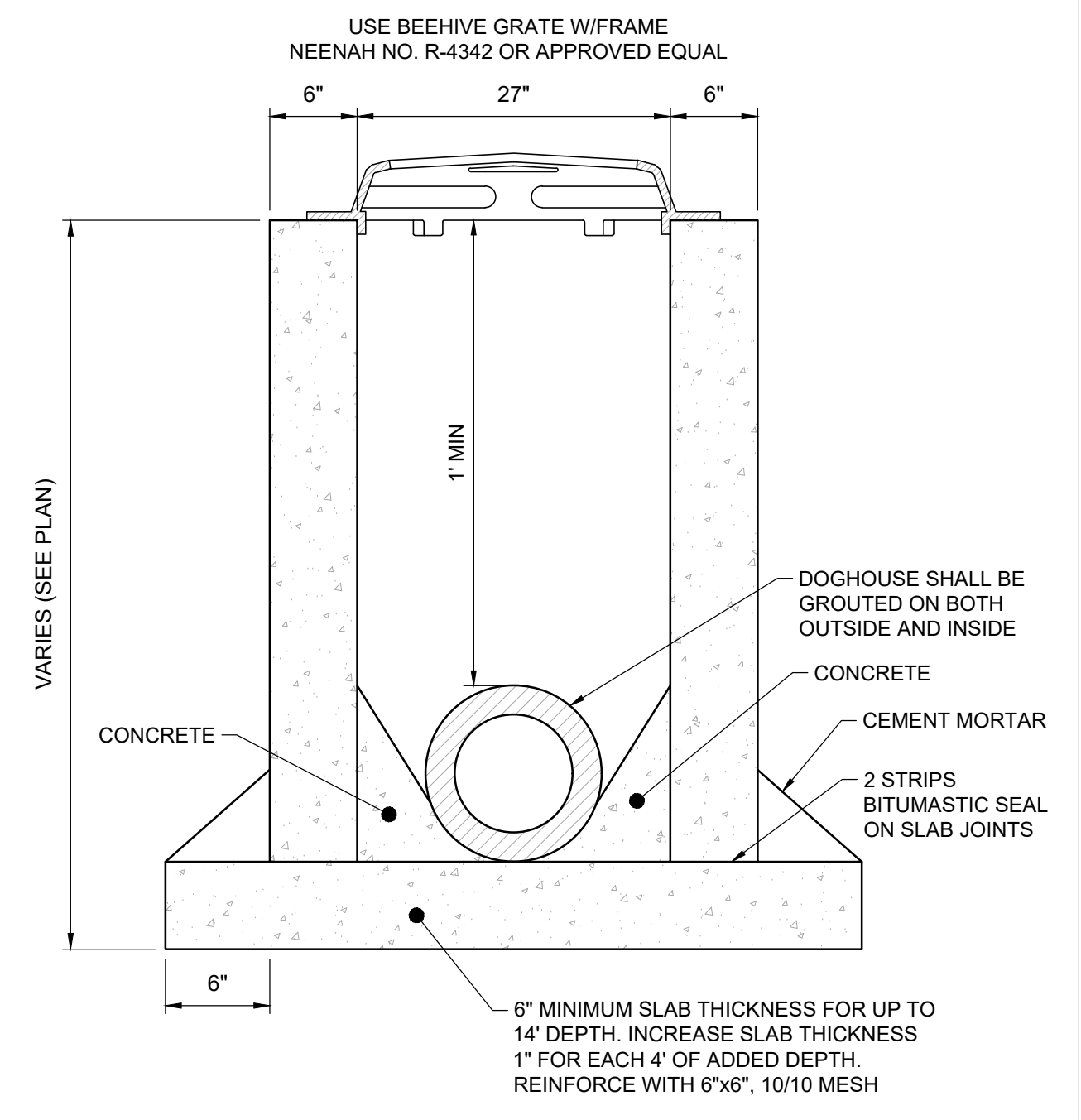


2 UTILITY PAVEMENT REPLACEMENT DETAIL
C702 NO SCALE



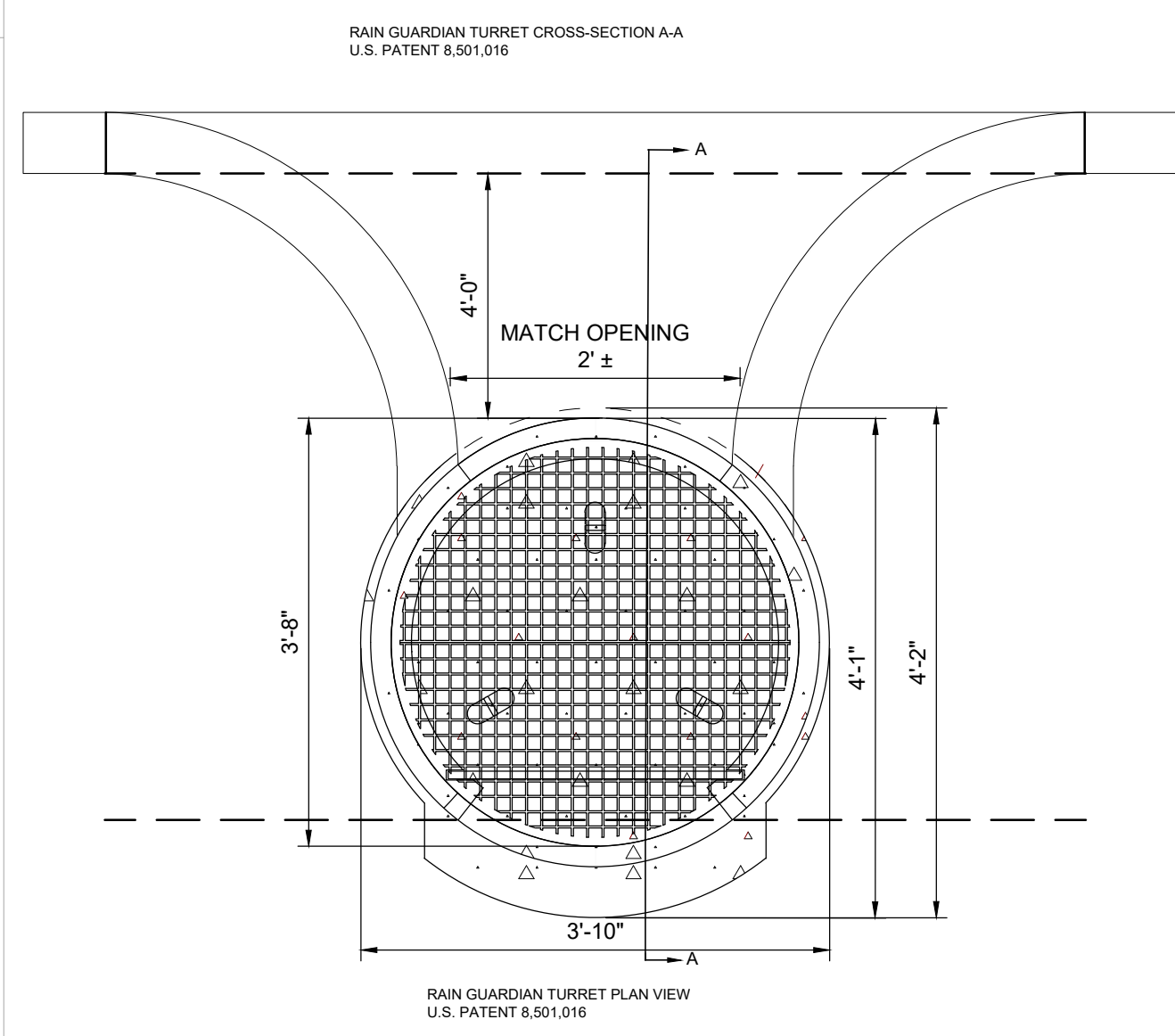
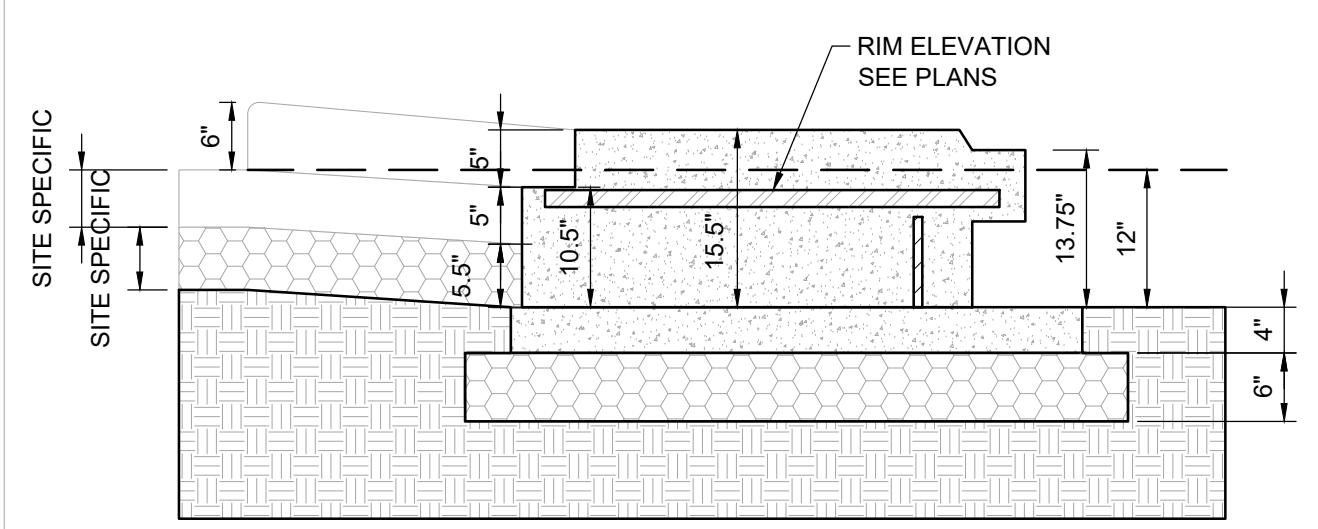
- NOTE:
- NO WOOD SHALL BE USED FOR ADJUSTING CASTING, CEMENT MORTAR ONLY.
 - CAST IRON CATCH BASIN FRAME & COVER CASTINGS PER TABLE.
 - PRECAST REINFORCED CONCRETE BASE SLAB & COVER SLAB PER ASTM C478.
 - PRECAST REINFORCED CONCRETE MANHOLE SECTIONS PER ASTM C478, FURNISHED WITH O-RING GASKETS & LUBRICANT, MEETING ASTM C433, OR 8" CONCRETE MANHOLE BLOCK MANHOLE SECTION WITH 1/2" MORTARED EXTERIOR.
 - INSTALL FLEXIBLE CONNECTION BETWEEN THE PIPE AND STRUCTURE PER ASTM C923-18.

3 CATCH BASIN
C702 NO SCALE

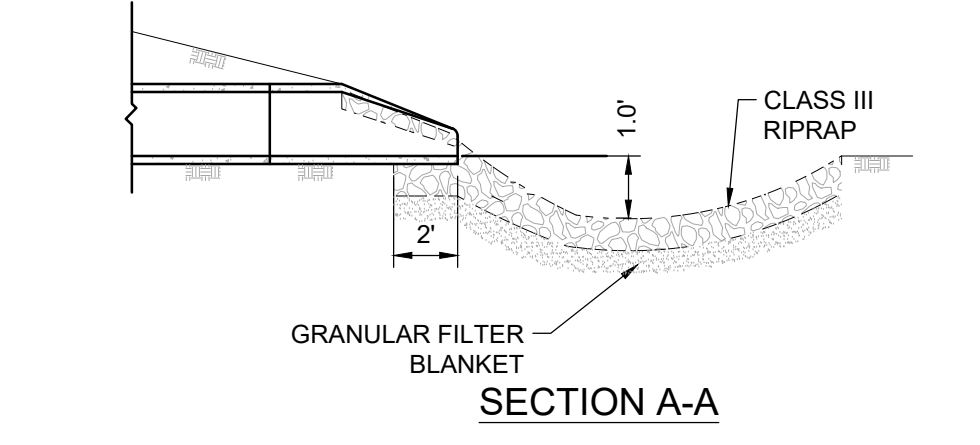
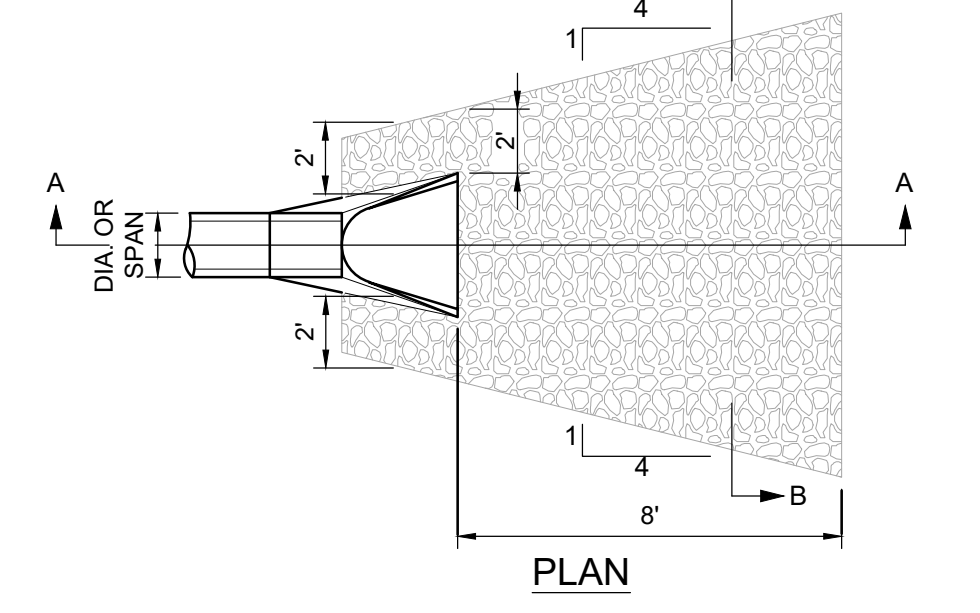
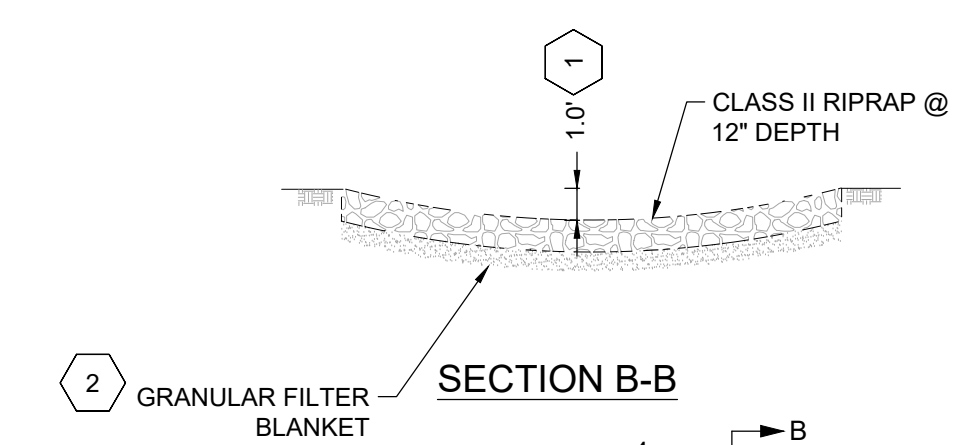


- NOTE:
- NO WOOD SHALL BE USED FOR ADJUSTING CASTING, CEMENT MORTAR ONLY.
 - PRECAST REINFORCED CONCRETE BASE SLAB PER ASTM C478.
 - PRECAST REINFORCED CONCRETE MANHOLE SECTIONS PER ASTM C478, FURNISHED WITH O-RING GASKETS & LUBRICANT, MEETING ASTM C433, OR 8" CONCRETE MANHOLE BLOCK MANHOLE SECTION WITH 1/2" MORTARED EXTERIOR.
 - INSIDE SURFACE SHALL BE FINISHED SMOOTH.

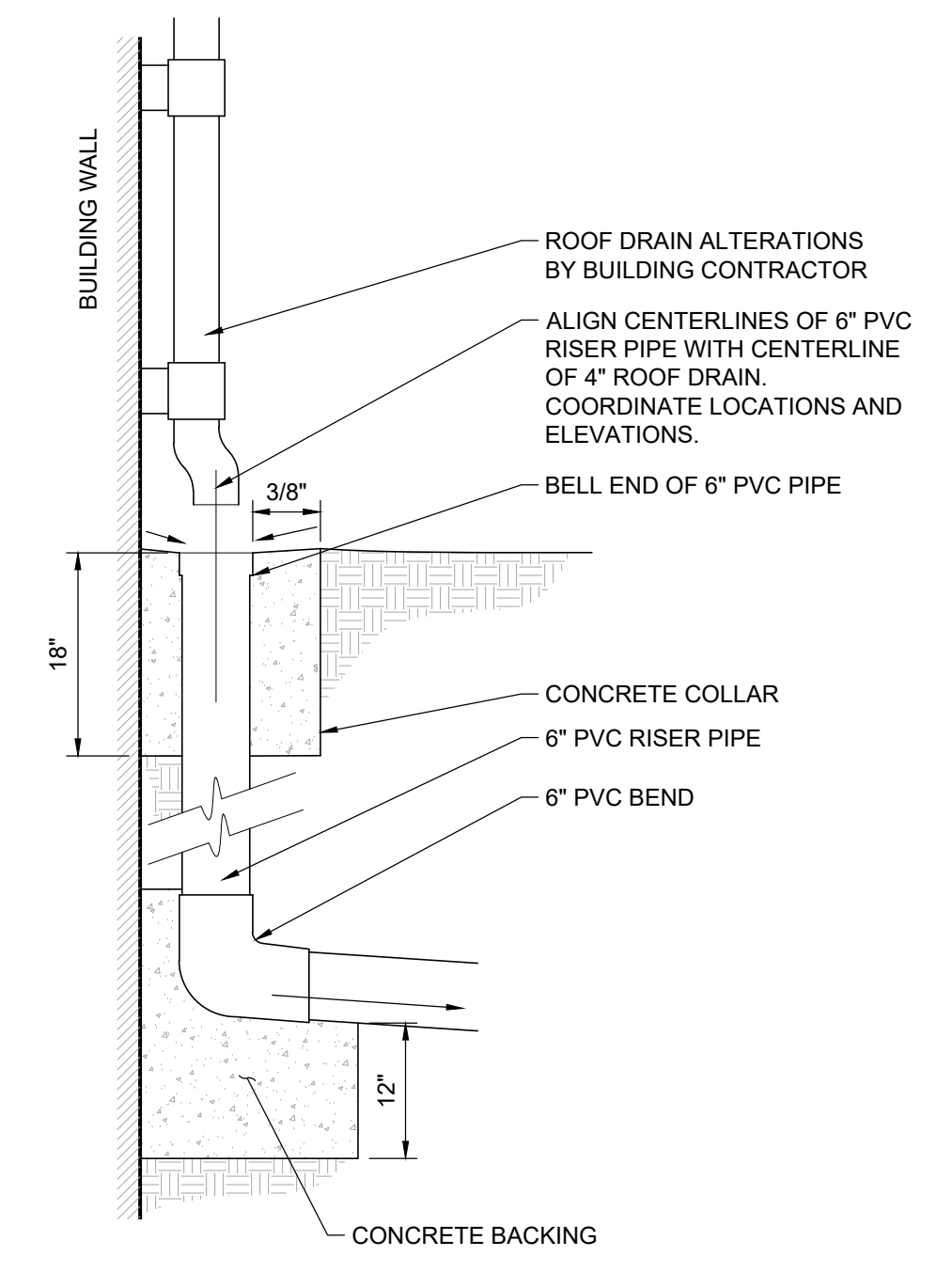
4 27" STORM MANHOLE
C702 NO SCALE



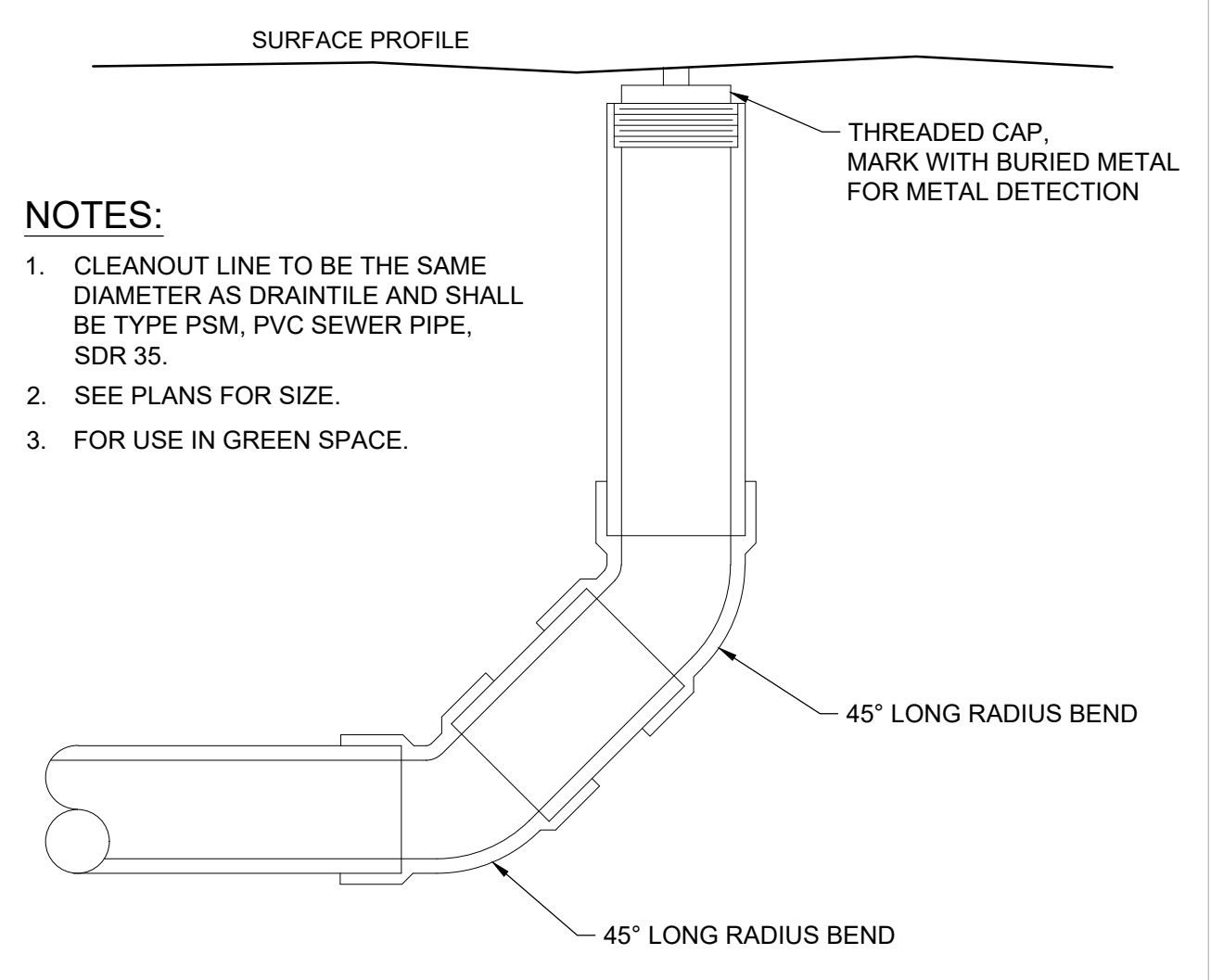
5 RAIN GUARDIAN TURRET DETAIL
C702 NO SCALE



6 RIPRAP AT RCP OUTLETS
C702 NO SCALE



7 ROOF DRAIN TIE IN
C702 NO SCALE



- NOTES:
- CLEANOUT LINE TO BE THE SAME DIAMETER AS DRAIN TILE AND SHALL BE TYPE PSM, PVC SEWER PIPE, SDR 35.
 - SEE PLANS FOR SIZE.
 - FOR USE IN GREEN SPACE.

8 SUBDRAIN CLEANOUT
C702 NO SCALE

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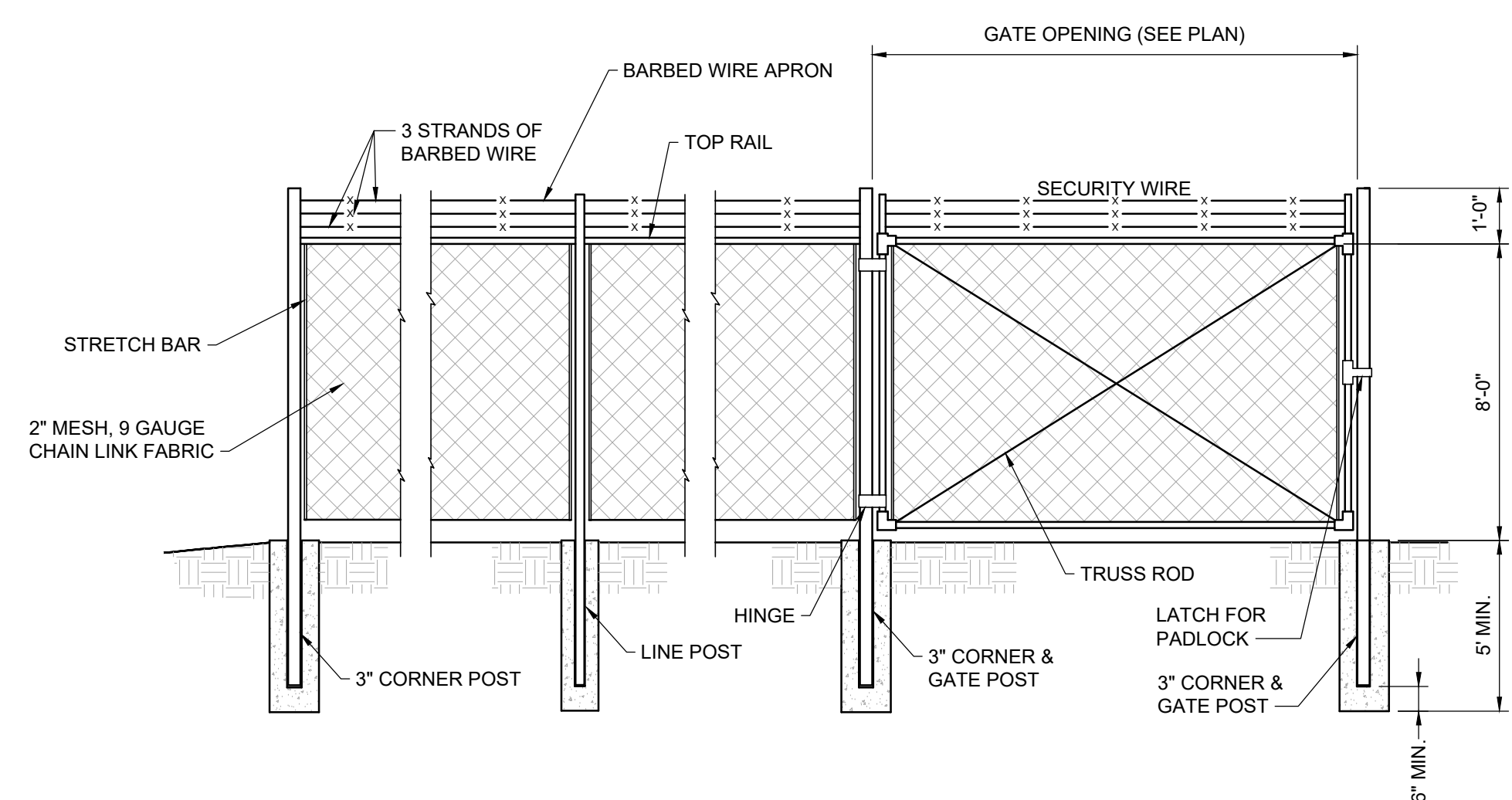
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PRINTED NAME: AMANDA KIEFFER
LIC. NO.: 56216 DATE: 2025-04-07

DESIGNED	DRAWN	CHECKED	BPK
AMK	TTK		

SITE DETAILS

C702

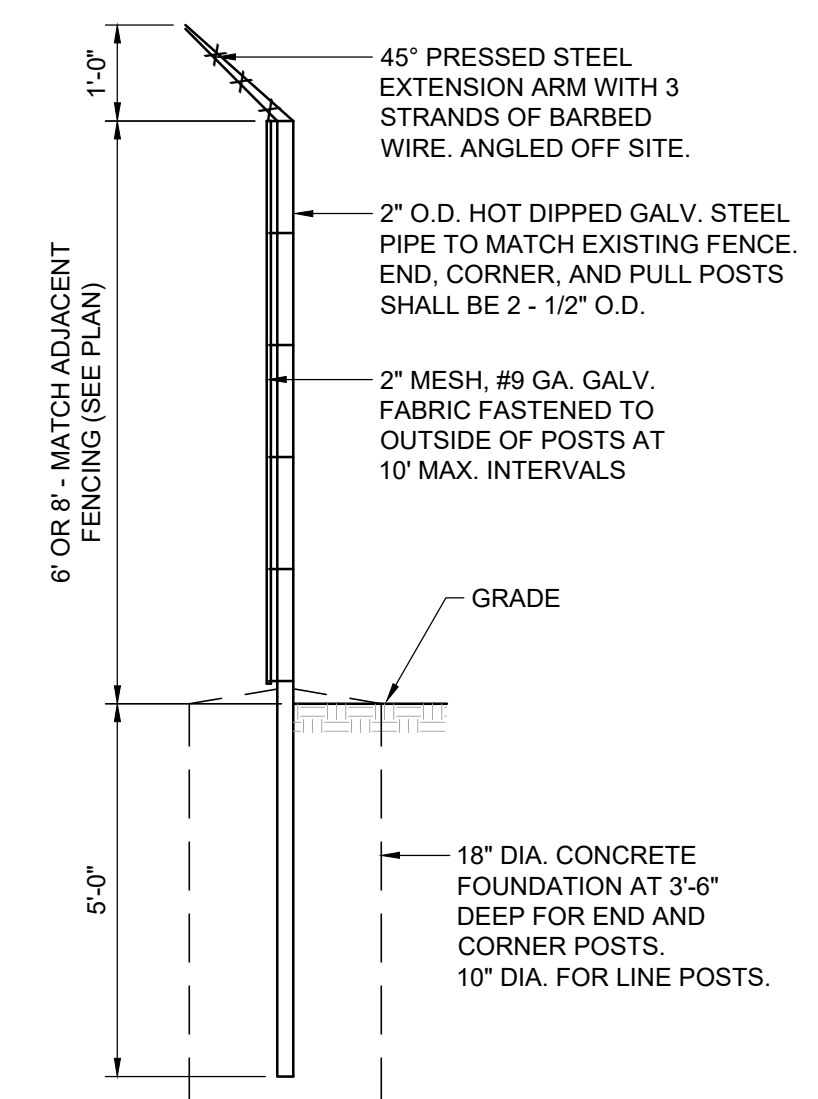
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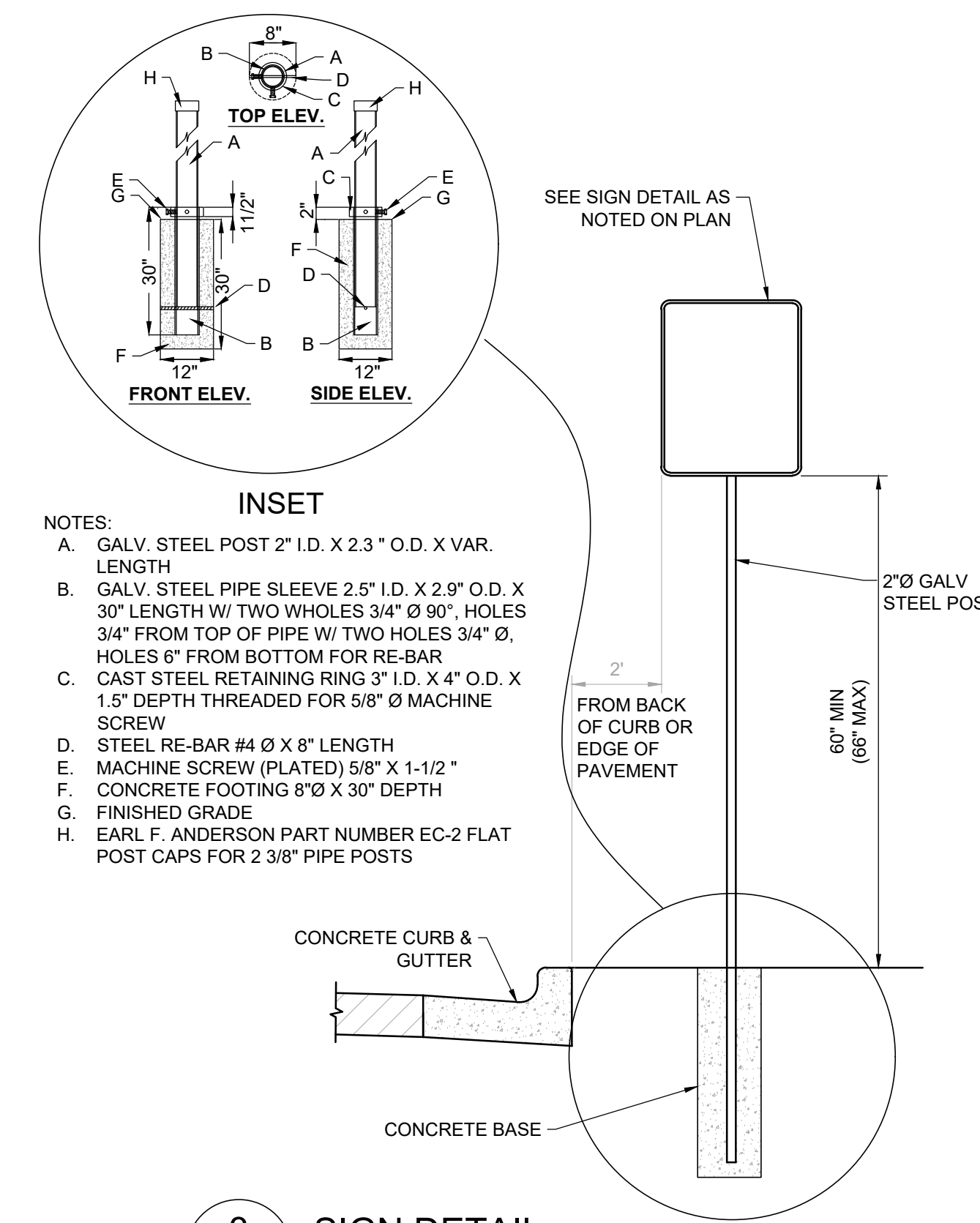
NOTES:
1. FINAL GATE DESIGN PER MANUFACTURERS RECOMMENDATIONS
2. FOOTING DEPTHS PER MANUFACTURERS RECOMMENDATIONS

1 TYPICAL CHAIN LINK FENCE AND GATES DETAIL
C703 NO SCALE

NOTES:
• CONTRACTOR SHALL SUBMIT SHOP DRAWINGS FOR THE CHAIN LINK FENCING AND GATES, INCLUDING THE FOLLOWING INFORMATION: GATE POSTS, RAILS AND FITTINGS, CHAIN LINK FABRIC, REINFORCEMENTS, AND ATTACHMENTS. FABRIC SHALL BE KNUCKLED AT BOTH TOP AND BOTTOM SELVAGES. FABRIC ON EACH GATE PANEL SHALL BE ONE PIECE.
• ALL STRUCTURAL AND ROLL-FORMED SHAPES SHALL CONFORM TO PROVISIONS OF ASTM A123 FOR GALVANIZED COATING.



2 LINE POST & FENCE DETAIL
C703 NO SCALE



NOTES:
A. GALV. STEEL POST 2" I.D. X 2.3" O.D. X VAR. LENGTH
B. GALV. STEEL PIPE SLEEVE 2.5" I.D. X 2.9" O.D. X 30" LENGTH W/ TWO WHOLES 3/4" Ø 90°, HOLES 3/4" FROM TOP OF PIPE W/ TWO HOLES 3/4" Ø, HOLES 6" FROM BOTTOM FOR RE-BAR
C. CAST STEEL RETAINING RING 3" I.D. X 4" O.D. X 1.5" DEPTH THREADED FOR 5/8" Ø MACHINE SCREW
D. STEEL RE-BAR #4 Ø X 8" LENGTH
E. MACHINE SCREW (PLATED) 5/8" X 1-1/2"
F. CONCRETE FOOTING 8"Ø X 30" DEPTH
G. FINISHED GRADE
H. EARL F. ANDERSON PART NUMBER EC-2 FLAT POST CAPS FOR 2 3/8" PIPE POSTS

3 SIGN DETAIL
C703 NO SCALE

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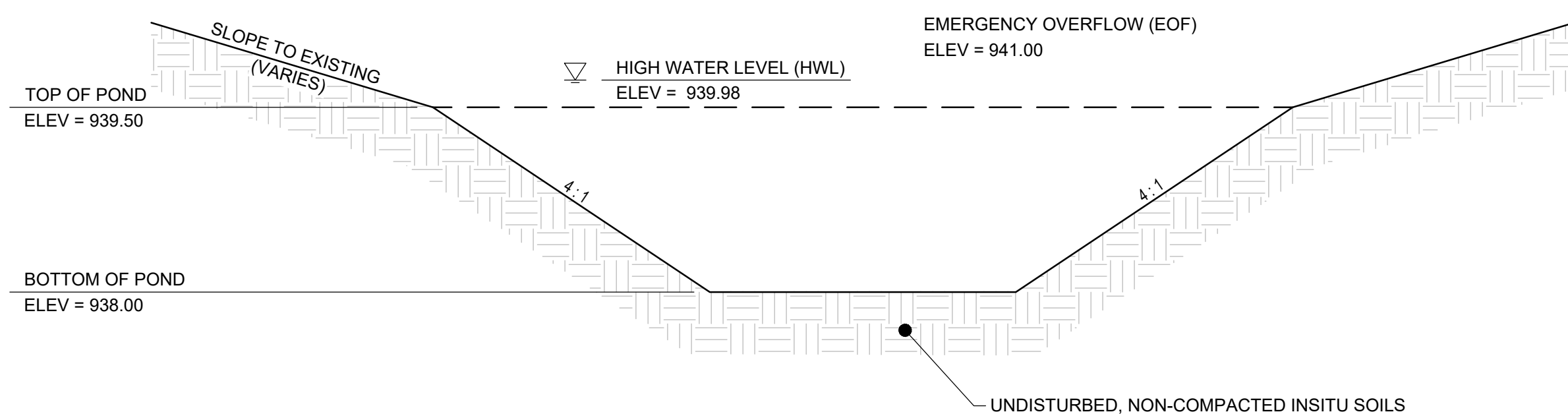
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AMK	TTK	BPK

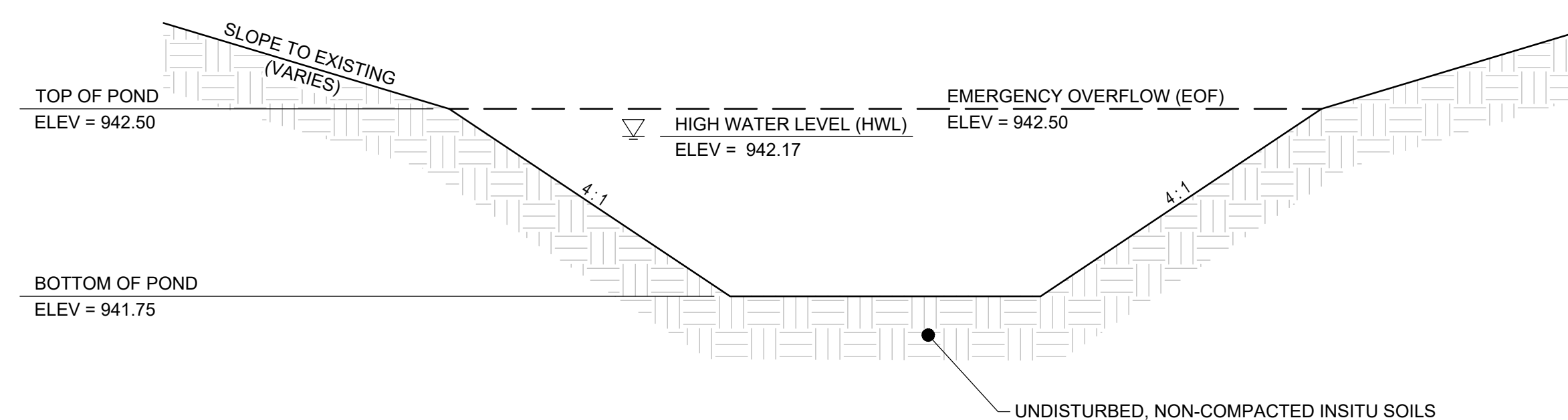
SITE DETAILS

C703

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1 SEDIMENTATION BASIN #1
C704 NO SCALE



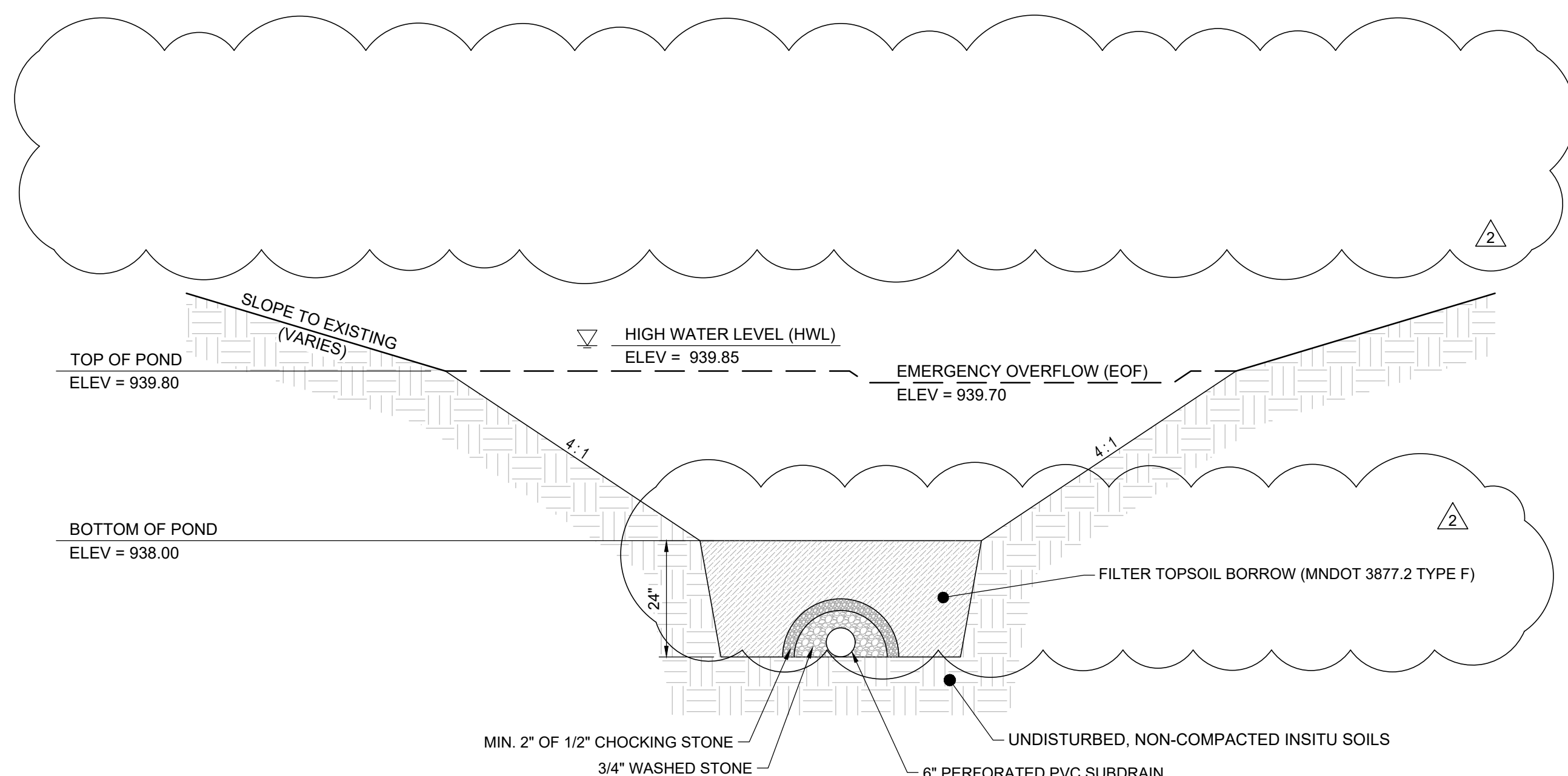
2 SEDIMENTATION BASIN #2
C704 NO SCALE

FILTRATION BASIN CONSTRUCTION:

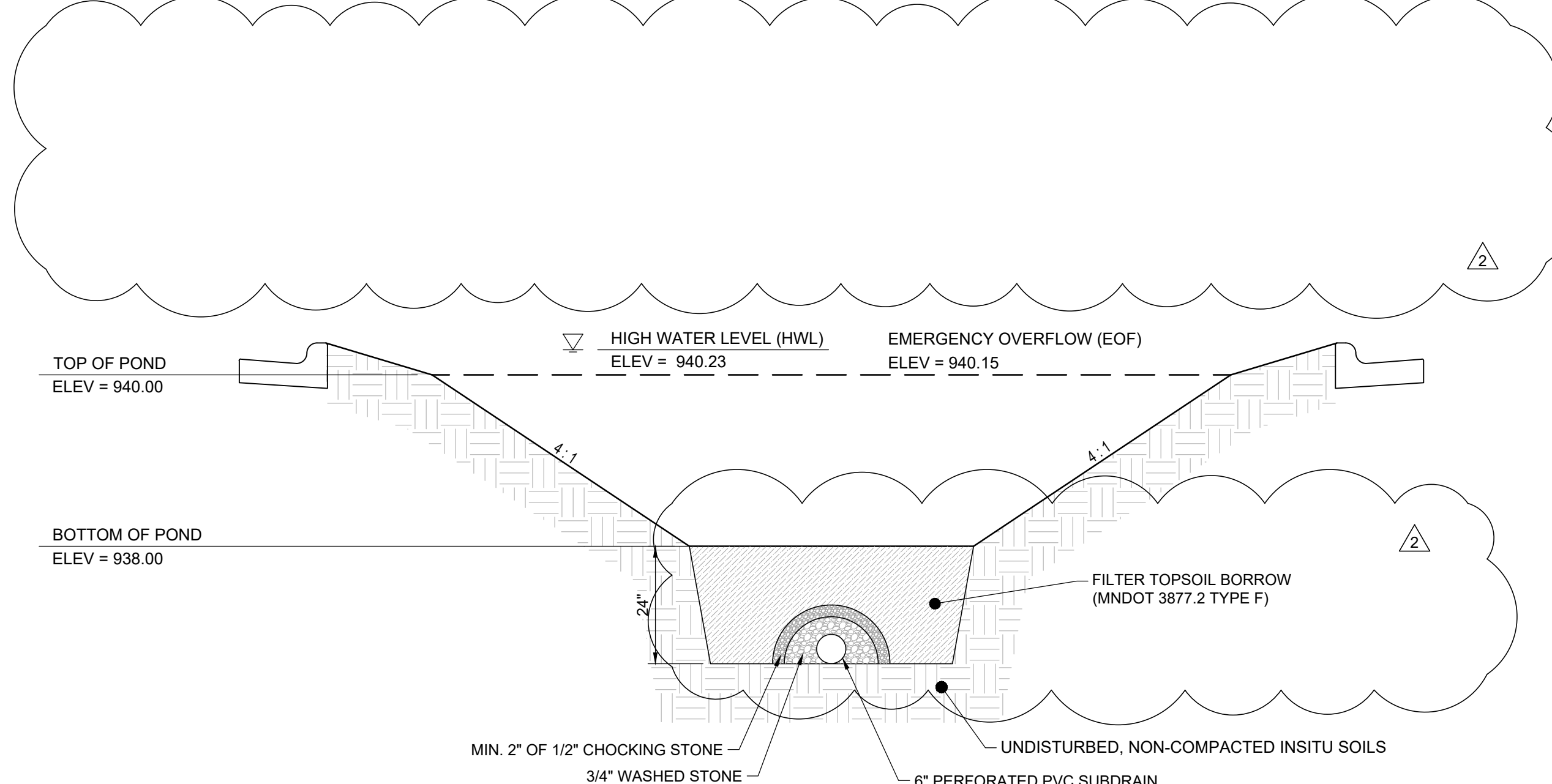
- WORK SHALL INCLUDE - ALL EXCAVATION AND CONSTRUCTION AS OUTLINED IN THE PLANS, SPECIFICATIONS, AND DETAILS OUTLINING THE CONSTRUCTION OF THE FILTRATION BASIN.
- THE CONTRACTOR SHALL MAINTAIN SILT FENCE AROUND THE PERIMETER OF THE FILTRATION BASIN DURING ALL PHASES OF CONSTRUCTION. THE FILTRATION AREA MUST BE STAKED OFF AND MARKED TO KEEP ALL CONSTRUCTION TRAFFIC, EQUIPMENT, AND MATERIAL STOCKPILES OUT OF THE PROPOSED FILTRATION AREA.
- THE CONTRACTOR SHALL ENSURE THAT THE FILTRATION BASIN IS NOT USED AS A SEDIMENT TRAP DURING CONSTRUCTION AND THAT NO RUNOFF ENTERS THE BASIN PRIOR TO THE COMPLETION OF CONSTRUCTION AND COMPLETE STABILIZATION OF SURROUNDING AREAS DRAINING TO THE BASIN. ALL UPLAND DRAINAGE MUST BE DIVERTED TO PREVENT RUNOFF FROM ENTERING FILTRATION BASIN WORK AREA.
- FILTRATION BASIN SHALL BE CONSTRUCTED AT THE END OF THE PROJECT AFTER ALL AREAS SURROUNDING IT AND DRAINING INTO IT HAVE BEEN CONSTRUCTED AND FULLY STABILIZED. IN ORDER TO AVOID SOIL COMPACTION IN THE BASIN, NO EQUIPMENT SHALL BE DRIVEN IN THE AREA OF THE BASIN PRIOR TO ITS CONSTRUCTION, AND WHEN IT IS CONSTRUCTED, ONLY LIGHT EARTH MOVING EQUIPMENT WITH TRACKS SHALL BE USED.
- AFTER FINAL GRADING, THE BASIN'S FLOOR SHALL BE TILLED TO A DEPTH OF AT LEAST 6 INCHES TO PROVIDE A WELL-AERATED, POROUS SURFACE. SMEARING OF THE SOIL IN THE BASIN SHALL BE AVOIDED AND IF SMEARING DOES OCCUR IT SHALL BE CORRECTED BY RAKING OR RETILLING OF THE BASIN.
- IMMEDIATELY FOLLOWING FILTRATION BASIN CONSTRUCTION, THE ENTIRE BASIN SHALL BE SEEDED AND STABILIZED AS INDICATED IN THE PLANS. FILTRATION BASIN MUST BE FULLY STABILIZED PRIOR TO ANY UPSTREAM RUNOFF BEING DIRECTED TO BASIN.

FILTRATION BASIN CONSTRUCTION:

- WORK SHALL INCLUDE - ALL EXCAVATION AND CONSTRUCTION AS OUTLINED IN THE PLANS, SPECIFICATIONS, AND DETAILS OUTLINING THE CONSTRUCTION OF THE FILTRATION BASIN.
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3 FILTRATION BASIN #3
C704 NO SCALE



4 FILTRATION BASIN #4
C704 NO SCALE

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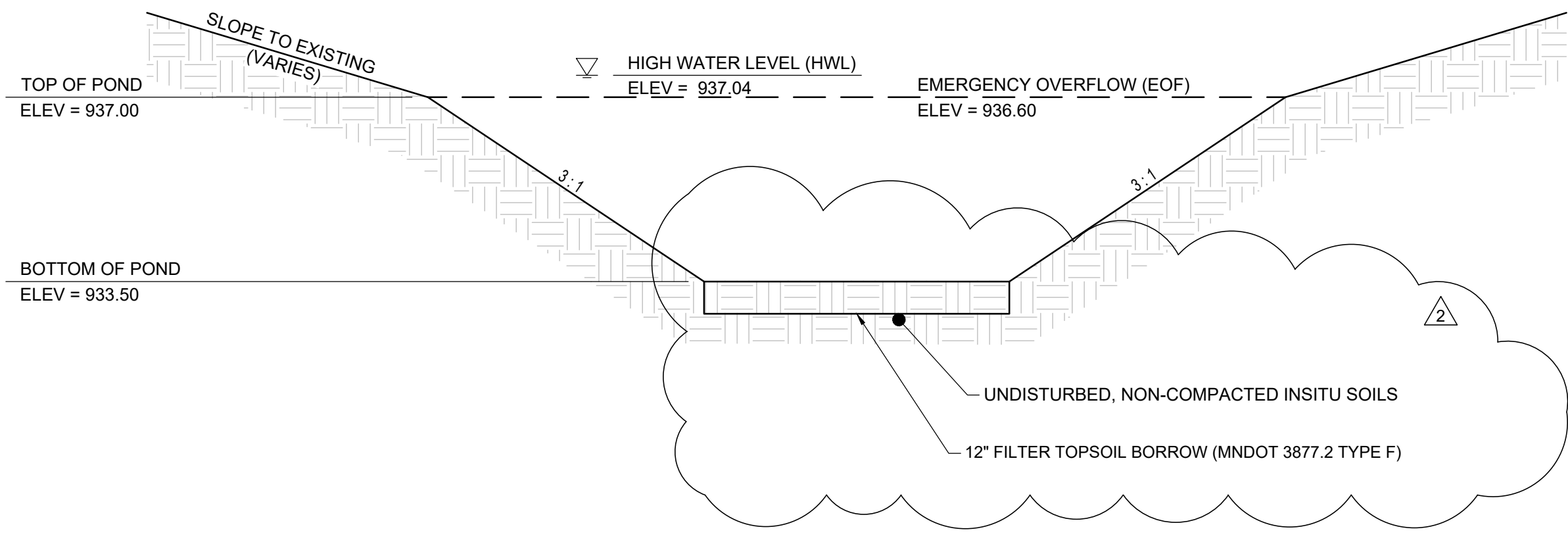
SITE DETAILS

C704

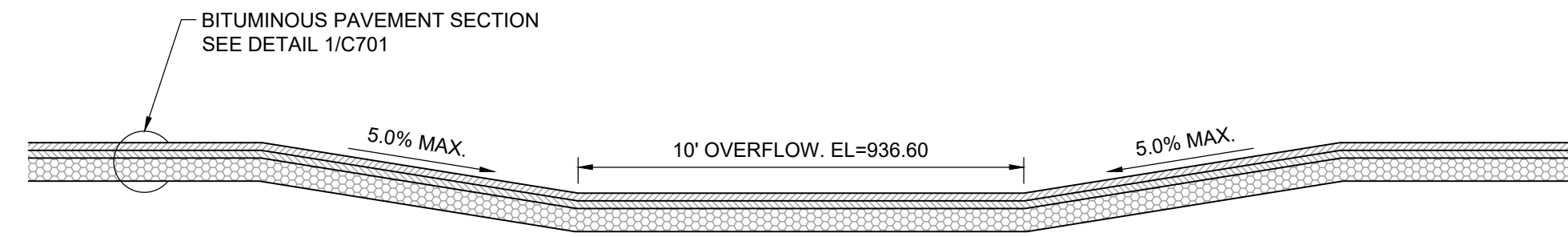
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INFILTRATION BASIN CONSTRUCTION:

- A. WORK SHALL INCLUDE - ALL EXCAVATION AND CONSTRUCTION AS OUTLINED IN THE PLANS, SPECIFICATIONS, AND DETAILS OUTLINING THE CONSTRUCTION OF THE INFILTRATION BASIN.
- B. THE CONTRACTOR SHALL MAINTAIN SILT FENCE AROUND THE PERIMETER OF THE INFILTRATION BASIN DURING ALL PHASES OF CONSTRUCTION. THE INFILTRATION AREA MUST BE STAKED OFF AND MARKED TO KEEP ALL CONSTRUCTION TRAFFIC, EQUIPMENT, AND MATERIAL STOCKPILES OUT OF THE PROPOSED INFILTRATION AREA.
- C. THE CONTRACTOR SHALL ENSURE THAT THE INFILTRATION BASIN IS NOT USED AS A SEDIMENT TRAP DURING CONSTRUCTION AND THAT NO RUNOFF ENTERS THE BASIN PRIOR TO THE COMPLETION OF CONSTRUCTION AND COMPLETE STABILIZATION OF SURROUNDING AREAS DRAINING TO THE BASIN. ALL UPLAND DRAINAGE MUST BE DIVERTED TO PREVENT RUNOFF FROM ENTERING INFILTRATION BASIN WORK AREA.
- D. INFILTRATION BASIN SHALL BE CONSTRUCTED AT THE END OF THE PROJECT AFTER ALL AREAS SURROUNDING IT AND DRAINING INTO IT HAVE BEEN CONSTRUCTED AND FULLY STABILIZED. IN ORDER TO AVOID SOIL COMPACTION IN THE BASIN, NO EQUIPMENT SHALL BE DRIVEN IN THE AREA OF THE BASIN PRIOR TO ITS CONSTRUCTION, AND WHEN IT IS CONSTRUCTED, ONLY LIGHT EARTH MOVING EQUIPMENT WITH TRACKS SHALL BE USED.
- E. AFTER FINAL GRADING, THE BASIN'S FLOOR SHALL BE TILLED TO A DEPTH OF AT LEAST 6 INCHES TO PROVIDE A WELL-AERATED, POROUS SURFACE. SMEARING OF THE SOIL IN THE BASIN SHALL BE AVOIDED AND IF SMEARING DOES OCCUR IT SHALL BE CORRECTED BY RAKING OR RETILLING OF THE BASIN.
- F. IMMEDIATELY FOLLOWING INFILTRATION BASIN CONSTRUCTION, THE ENTIRE BASIN SHALL BE SEEDED AND STABILIZED AS INDICATED IN THE PLANS. INFILTRATION BASIN MUST BE FULLY STABILIZED PRIOR TO ANY UPSTREAM RUNOFF BEING DIRECTED TO BASIN.



1 INFILTRATION BASIN #5
C705 NO SCALE



2 BASIN #5 EMERGENCY OVERFLOW
C705 NO SCALE



CARLETON COLLEGE
ONE NORTH COLLEGE STREET
NORTHFIELD, MN 55057



THREE OAKS DRIVE RECONSTRUCTION

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DESIGNED	DRAWN	CHECKED
AMK	TTK	BPK

SITE DETAILS

C705

21157.000

EXHIBIT I

Stormwater Maintenance Plan

Post-Construction Long-Term Maintenance Plan for 2025 Three Oaks Drive Improvements at Carleton College

System Description

The site consists of a series of stormwater management basins that capture runoff from the roadway, roofs, and parking areas at the north end of Carleton College Campus. The site is vegetated with native grasses, perennials, shrubs, and trees.

There are two (2) sedimentation basins, two (2) filtration basins, and one infiltration basin. The sedimentation basins are designed to detain and release stormwater at a reduced discharge rate and allow sediment to settle prior to discharge. The filtration basins provide treatment of suspended solids and phosphorus via filtration media and drain tile. Pre-treatment is provided on select basins by a Rain Guardian Turret structure which includes a grate and screen for trash and debris.

Regular inspection and maintenance are critical to the effective operation of the basins. Remove sediment and debris on a regular basis. It is the responsibility of the property owner to maintain all stormwater BMPs in accordance with the minimum design standards and other guidance provided. Refer to the Stormwater Memo for additional information.

Inspection Schedule

One inspection form shall be completed for each basin periodically as specified on the checklist. Typically, inspections are most beneficial twice annually, once in the early Spring and again in late Fall. For the first year of operation, more frequent inspection is recommended.

Erosion

The soil and mulch on the property shall be inspected for eroded areas and signs of channelized flow. Eroded areas shall be filled with soil or mulch and vegetated.

Sediment Accumulation & Clogging

Sediment accumulation within the facility may reduce the filtration and/or infiltration capacity and impair proper performance of the facility. The facility shall be inspected for accumulation of sediment as part of the inspection. Excessive sediment accumulation shall be removed.

Outlet Structure Maintenance

The Owner will be responsible for outlet structure maintenance. Periodically, the outlet pipe may clog with debris. Debris should be removed and appropriately disposed of off-site.

Standing Water

If standing water is observed more than 48 hours after a rain event, a comprehensive inspection should be performed. The facility owner shall contact the design engineer for additional guidance if standing water persists following cleaning of any obstructions or debris from outlets.

BASIN INSPECTION FORM

Three Oaks Drive, Carleton College, Northfield, MN		
Date:	Time:	Weather:
Inspector:		
Maintenance Item	Comments on Condition	Actions to be Taken
<i>Debris Cleanout (As Needed)</i>		
Trash and debris		
Inflow pipes are clean		
Outflow pipes are clean		
<i>Dewatering (Monthly)</i>		
After several storm events or an extreme storm event, inspect for signs of clogging of the inlet or outlet structures and sediment accumulation.		
<i>Sediment Deposition Cleanout (Annual)</i>		
No evidence of sedimentation in bottom of basin greater than 2 inches		
Contributing drainage area stabilized and free of erosion		
Note signs of pollution, such as oil sheens, discolored water, or unpleasant odors.		
<i>Outlet (Annual)</i>		
Outlet structure is in good condition		
No evidence of erosion adjacent to inlets		
<i>Comments and Actions Required:</i>		