

CONSTRUCTION PLANS FOR REPAIR OF COUNTY DITCH NO. 20 MCLEOD COUNTY, MINNESOTA

BIDDING DOCUMENTS



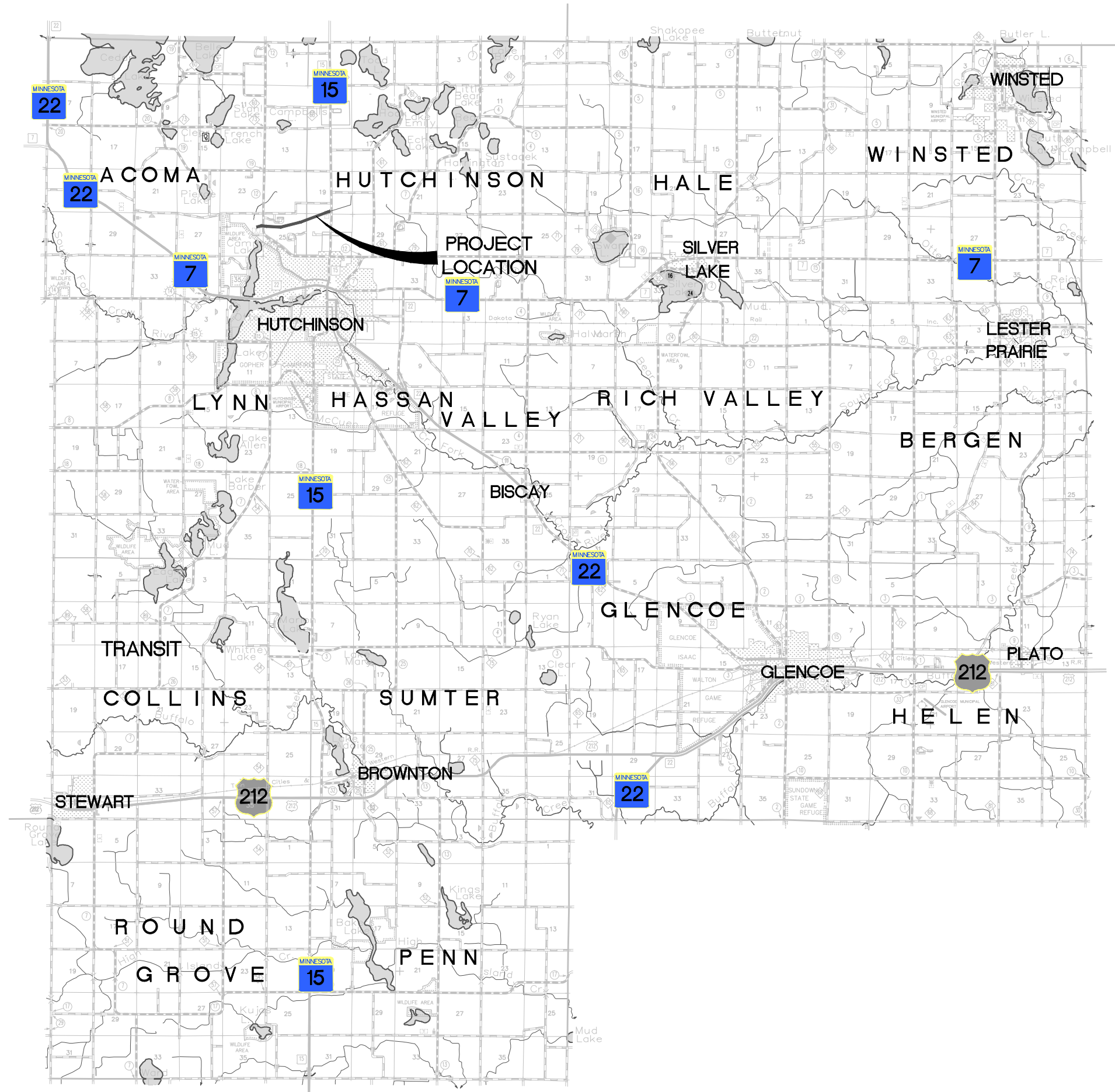
SHEET INDEX

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- 5 CEMETERY PLAN AND PROFILE
- 6-7 PROFILE
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ALL TRAFFIC CONTROL DEVICES AND SIGNING SHALL CONFORM TO THE MUTCD, INCLUDING "FIELD MANUAL FOR TEMPORARY TRAFFIC CONTROL ZONE LAYOUTS", - CURRENT EDITION.

NOTE:
THE SUBSURFACE UTILITY QUALITY INFORMATION IN THIS PLAN IS LEVEL D. THIS UTILITY QUALITY LEVEL WAS DETERMINED ACCORDING TO THE GUIDELINES OF C1/ASCE 38-02 ENTITLED "STANDARD GUIDELINES FOR THE COLLECTION AND DEPICTION OF EXISTING SUBSURFACE UTILITY DATA."

THE CONTRACTOR SHALL CALL THE GOPHER STATE ONE CALL SYSTEM AT 811 BEFORE COMMENCING EXCAVATION.



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| DRAWN BY: | SJP | | | | |
| DESIGNER: | CJV | | | | |
| CHECKED BY: | CJV | | | | |
| DESIGN TEAM | NO. | BY | DATE | REVISIONS | |

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

Chuck Vermeersch
Date: 8/10/15

CHUCK VERMEERSCH, PE
Lic. No. 43842

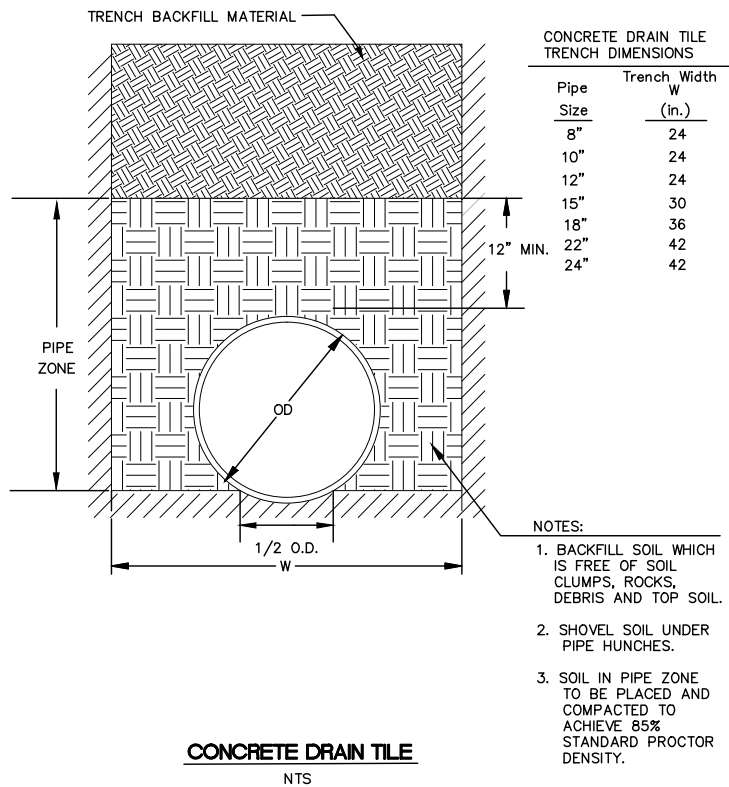
PHONE: 800.838.8666
1390 HWY. 15 S.
SUITE 200, PO BOX 308
HUTCHINSON, MN 55350-0308
www.sehinc.com

CONSTRUCTION PLANS FOR
REPAIR OF
COUNTY DITCH NO. 20,
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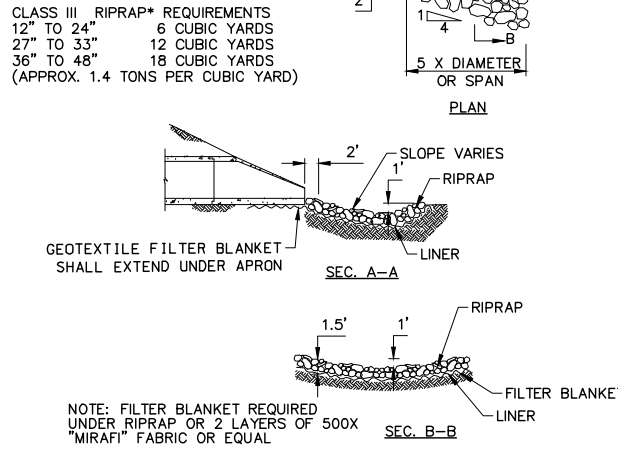
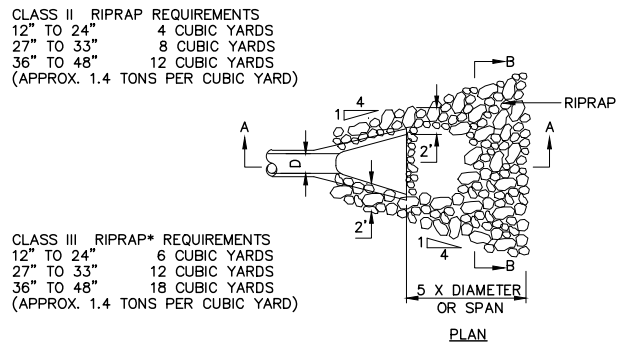
TITLE

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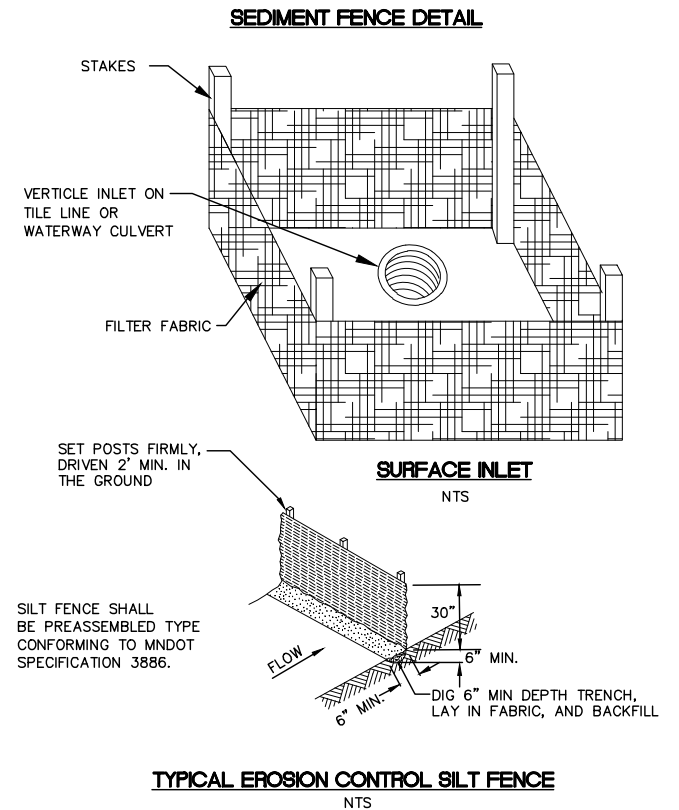
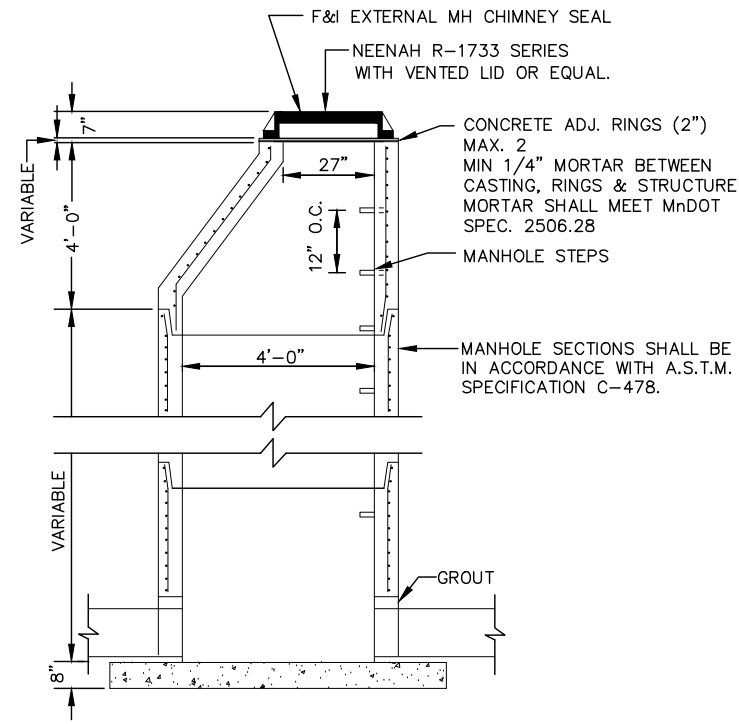
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CONCRETE DRAIN TILE
NTS



CLASS II AND III RIPRAP AT OUTLETS
NTS



SHAPED TRENCH BOTTOM INSITU INSTALLATION

THIS APPLIES ONLY TO THOSE INSITU SOIL CONDITIONS WHERE THE NATIVE SOIL CAN BE CUT TO A STABLE SHAPED TRENCH FOR BURIAL DEPTHS OF 7' OR LESS

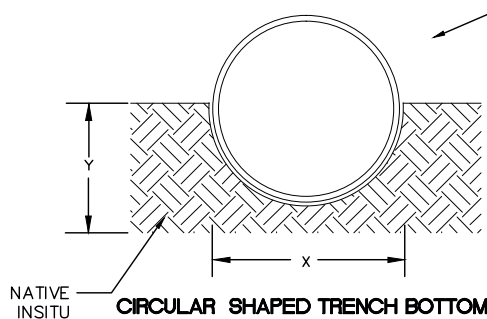


TABLE 1

| ROUNDED TRENCH DIMENSIONS | | |
|---------------------------|-----------------|-----------------|
| PIPE DIA. (IN.) | WIDTH "X" (IN.) | DEPTH "Y" (IN.) |
| 8 | 9.5 | 4.80 |
| 10 | 11.6 | 5.80 |
| 12 | 14.2 | 7.10 |
| 15 | 18.3 | 9.20 |
| 18 | 21.5 | 10.80 |

ACCEPTABLE BACKFILL MATERIAL AND COMPACTION REQUIREMENTS SEE SPECIFICATION SECTION 33 46 30

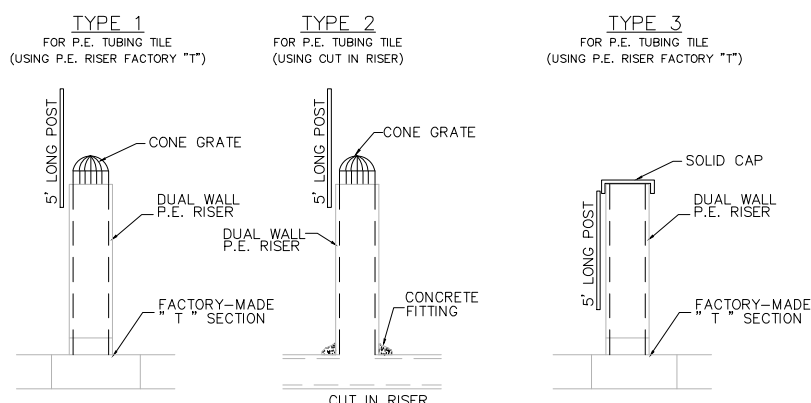
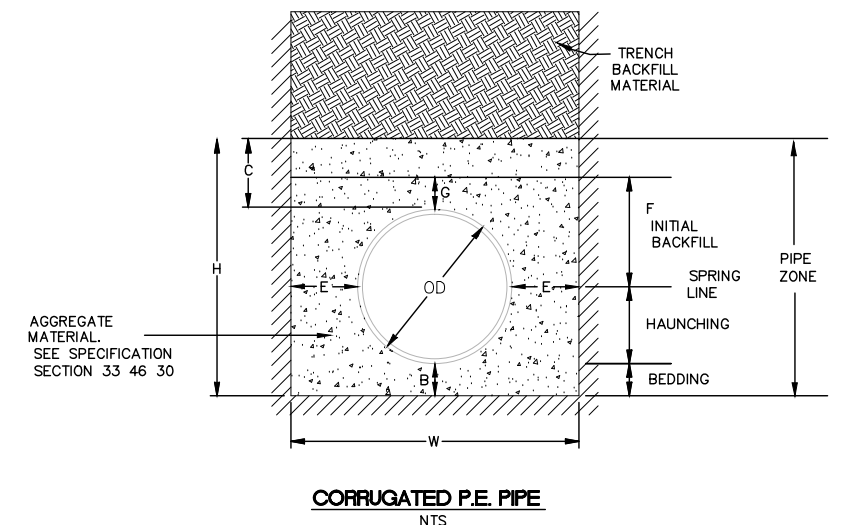
1. A ROUND TRENCH BOTTOM MAY BE FORMED WITH THE USE OF A SHAPED TRENCHER OR WITH A BACKHOE WITH A HALF-CIRCLE SHAPED BUCKET, ALSO REFERRED TO AS A "SPOON".
2. THE ROUNDED TRENCH BOTTOM SHOULD CLOSELY FIT THE OUTSIDE OF THE PIPE TO PROVIDE SUFFICIENT SUPPORT OF THE PIPE. APPROXIMATE DIMENSIONS OF THE ROUNDED TRENCH BOTTOM ARE FOUND IN TABLE 1

FLAT TRENCH BOTTOM INSTALLATION

CPE PIPE ENVELOPE & TRENCH DIMENSIONS (1)

| Pipe Size | Pipe OD (Nominal) in. | B Bed Depth Aggregate Material (2) in. | C Min. Cover (2) in. | H Min. Trench Depth (OD+B+C) ft. | E Envelope Width in. | W Min. Trench Width (OD+2E) in. | F Initial Backfill (2) in. | G Initial Backfill Over Pipe in. |
|-----------|-----------------------|--|----------------------|----------------------------------|----------------------|---------------------------------|----------------------------|----------------------------------|
| 4" | 4.8 | 4 - 6 | 12 | 17 - 21 | 8 | 21 | 8 | 6 |
| 6" | 6.9 | 4 - 6 | 12 | 19 - 23 | 8 | 23 | 10 | 6 |
| 8" | 9.1 | 4 - 6 | 12 | 22 - 26 | 8 | 25 | 11 | 6 |
| 10" | 11.4 | 4 - 6 | 12 | 24 - 28 | 8 | 28 | 12 | 6 |
| 12" | 14.5 | 4 - 6 | 12 | 26 - 30 | 8 | 31 | 13 | 6 |
| 15" | 17.6 | 4 - 6 | 12 | 30 - 34 | 8 | 34 | 15 | 6 |
| 18" | 21.2 | 4 - 6 | 12 | 34 - 38 | 9 | 39 | 17 | 6 |

- (1) Refer To Specific Manufacture's Installation Instructions.
- (2) Aggregate Material. See Project Manual Specification 33 46 30.



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| DRAWN BY: SdP | | | | |
| DESIGNER: CdV | | | | |
| CHECKED BY: CdV | | | | |
| DESIGN TEAM | NO. | BY | DATE | REVISIONS |

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 Date: 8/10/15
 Lic. No. 43842

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 HUTCHINSON, MN 55350-0308
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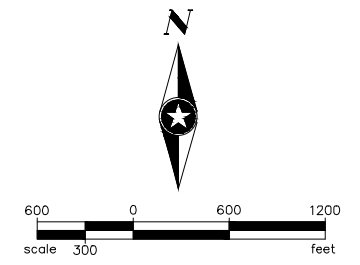
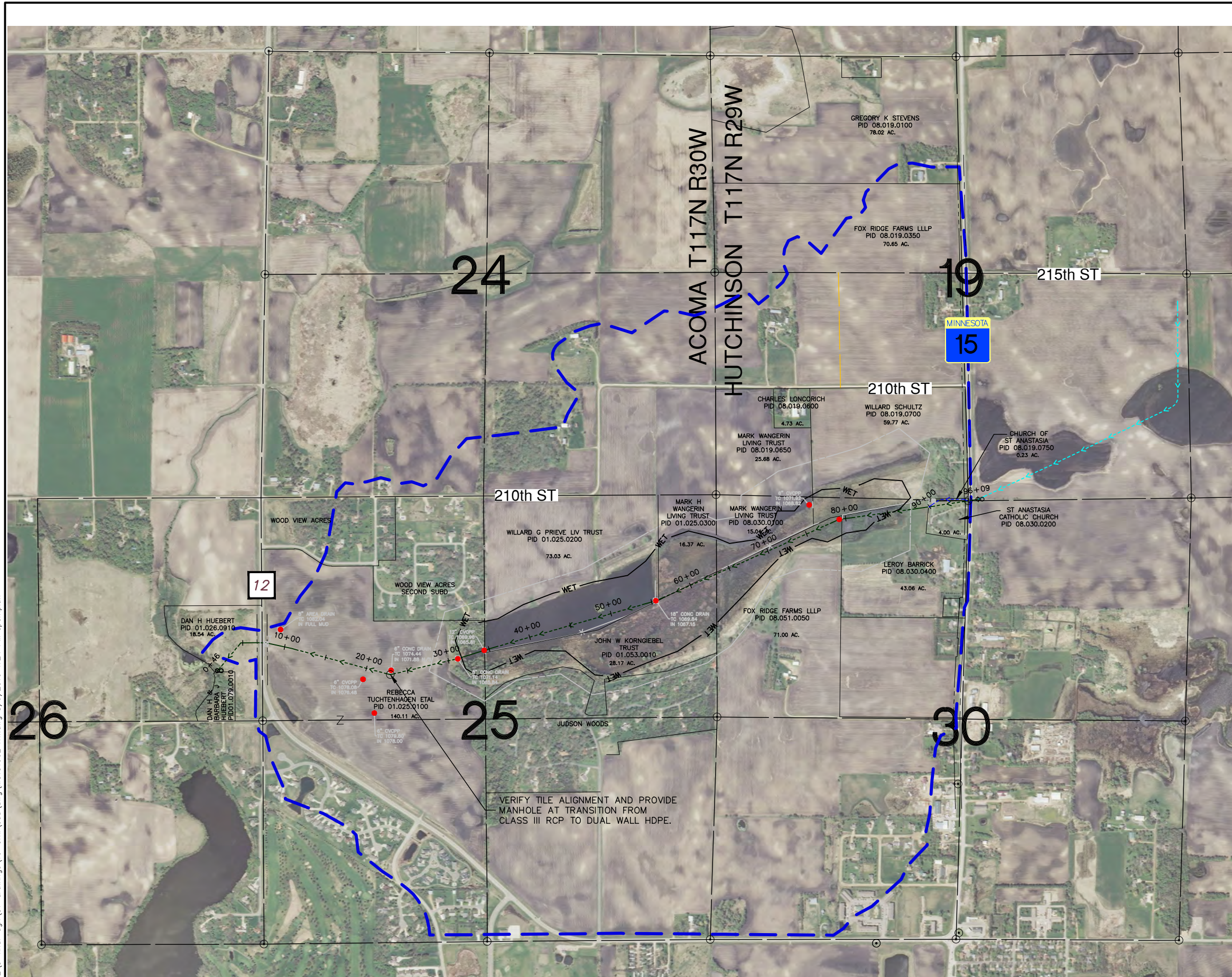
CONSTRUCTION PLANS FOR
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DETAILS

FILE NO.
 MCLEO 131902

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- LEGEND**
- SECTION LINES
 - PROPOSED TILE RELOCATION
 - WATERSHED
 - PROPERTY LINE
 - EXISTING CD 20 TILE
 - EXISTING CD 22 TILE (NOT INCLUDED IN PROJECT)
 - EXISTING TILE INLET
 - PROPOSED NEW TILE INLET
 - C.S.A.H.
 - TRUNK HWY

DRAWN BY: SJP
 DESIGNER: CJV
 CHECKED BY: CJV

| DESIGN TEAM | NO. | BY | DATE | REVISIONS |
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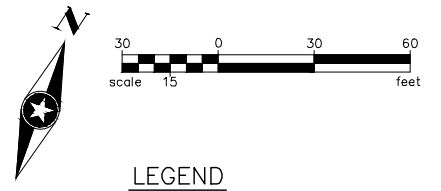
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**CONSTRUCTION PLANS FOR
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PLAN VIEW / WATERSHED

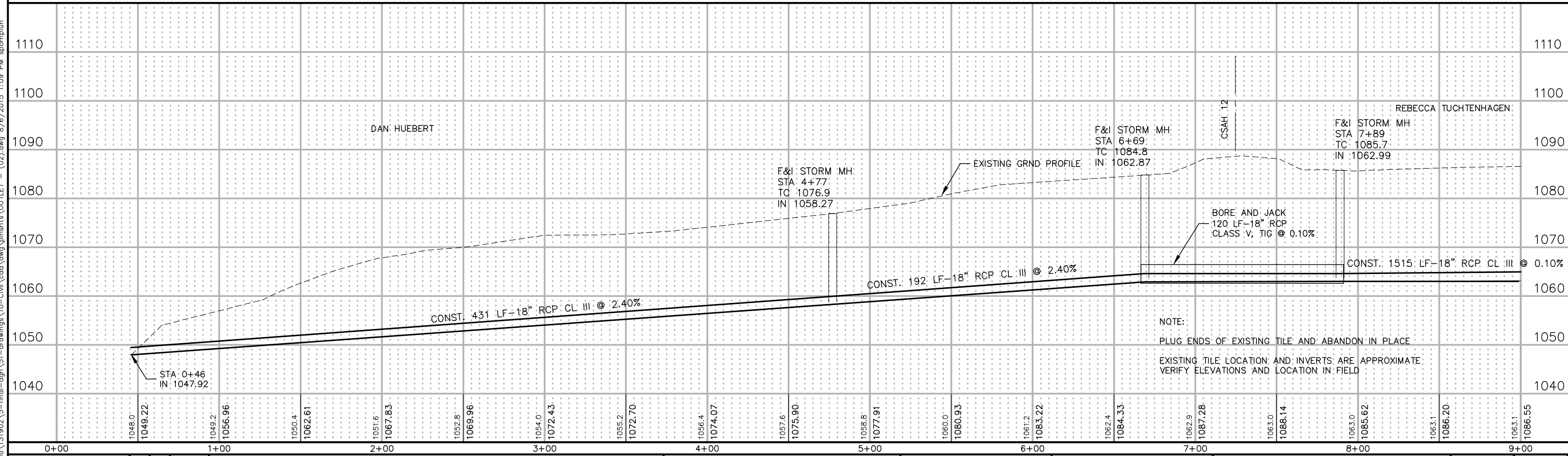
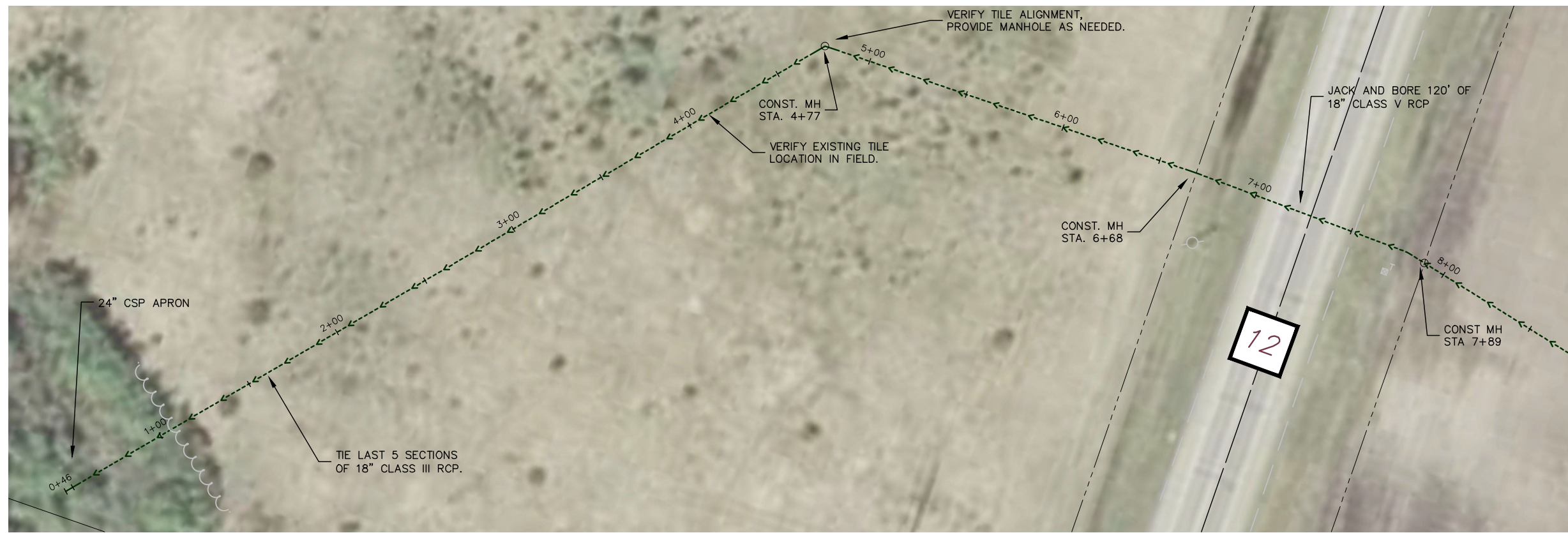
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 MCLEO 131902

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LEGEND

- SECTION LINES
- EXISTING OPEN DITCH
- PROPOSED TILE RELOCATION
- WATERSHED
- PROPERTY LINE
- EXISTING CD 22 TILE (NOT INCLUDED IN PROJECT)
- PROPOSED EASEMENT
- EXISTING TILE INLET
- PROPOSED NEW TILE INLET
- C.S.A.H.
- TRUNK HWY



DRAWN BY: SJP
 DESIGNER: CJV
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 Date: 8/10/15 Lic. No. 43842

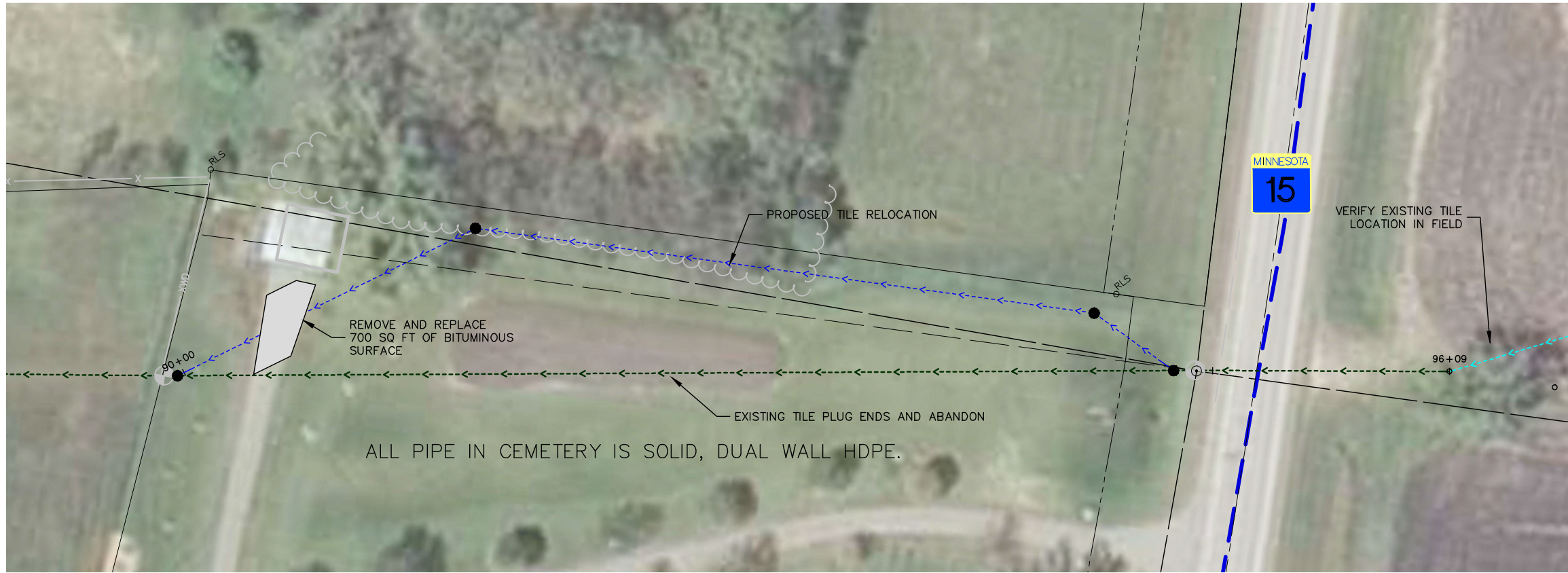


**CONSTRUCTION PLANS FOR
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OUTLET

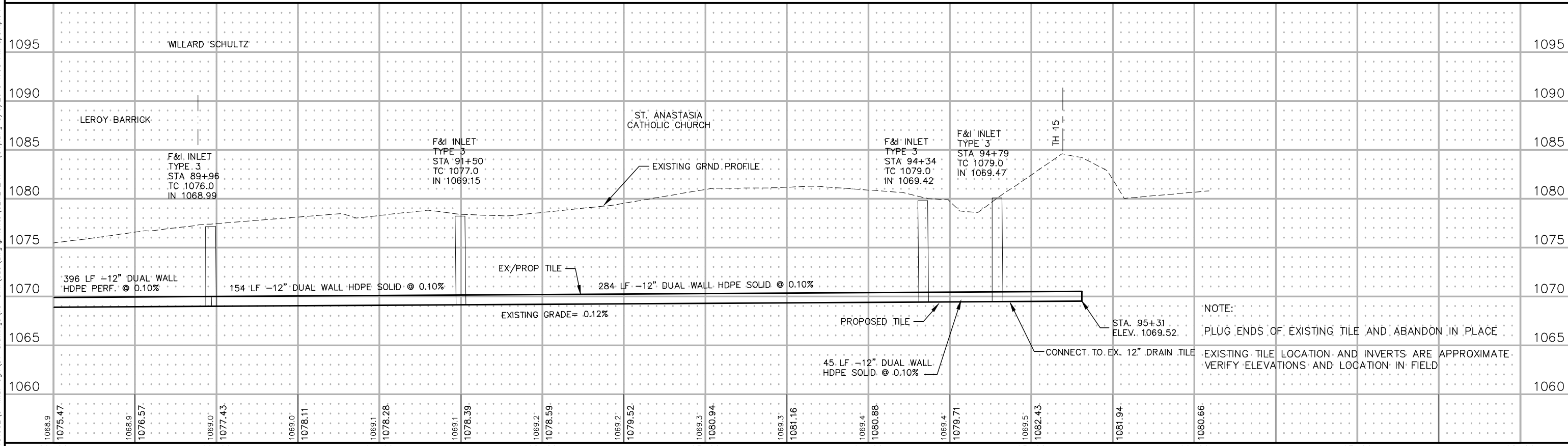
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- LEGEND**
- SECTION LINES
 - PROPOSED TILE RELOCATION
 - WATERSHED
 - PROPERTY LINE
 - EXISTING CD 20 TILE
 - EXISTING CD 22 TILE (NOT INCLUDED IN PROJECT)
 - EXISTING TILE INLET
 - PROPOSED NEW TILE INLET
 - C.S.A.H.
 - TRUNK HWY

ALL PIPE IN CEMETERY IS SOLID, DUAL WALL HDPE.

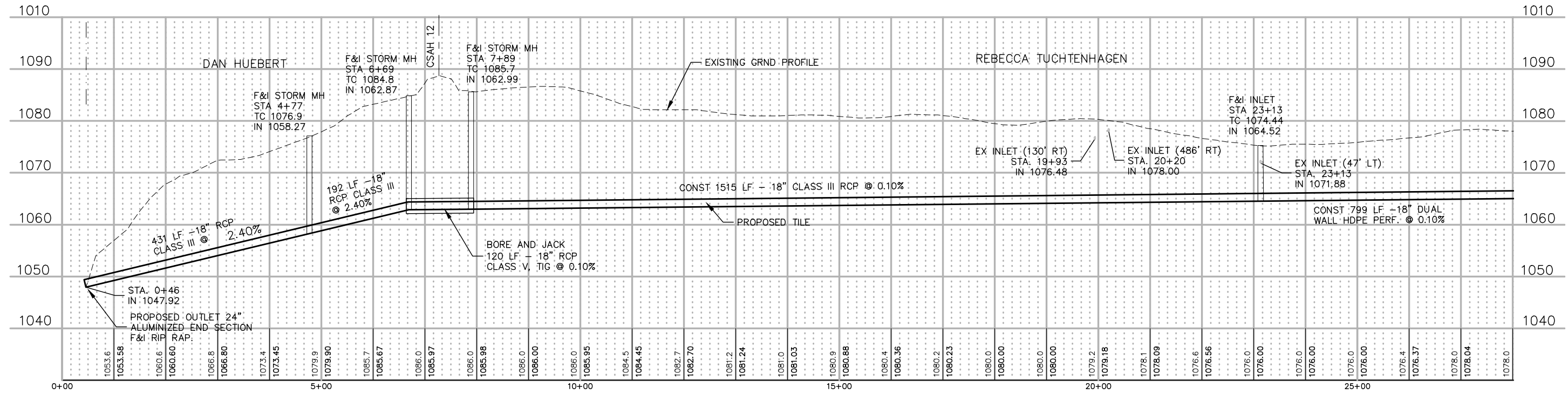


NOTE:
 PLUG ENDS OF EXISTING TILE AND ABANDON IN PLACE
 EXISTING TILE LOCATION AND INVERTS ARE APPROXIMATE
 VERIFY ELEVATIONS AND LOCATION IN FIELD

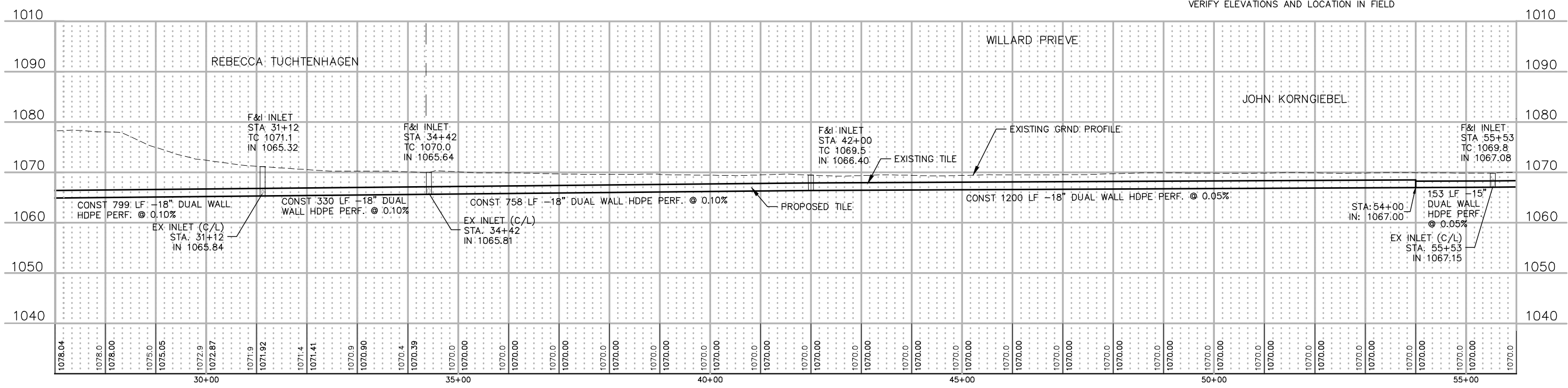
| DRAWN BY: SJP DESIGNER: CJV CHECKED BY: CJV | <table border="1" style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th>NO.</th> <th>BY</th> <th>DATE</th> </tr> </thead> <tbody> <tr> <td> </td> <td> </td> <td> </td> </tr> <tr> <td> </td> <td> </td> <td> </td> </tr> </tbody> </table> | NO. | BY | DATE | | | | | | | REVISIONS | I HEREBY CERTIFY THAT THIS PLAN WAS PREPARED BY ME OR UNDER MY DIRECT SUPERVISION AND THAT I AM A DULY LICENSED PROFESSIONAL ENGINEER UNDER THE LAWS OF THE STATE OF MINNESOTA. CHUCK VERMEERSCH, PE Date: 8/10/15 Lic. No. 43842 | PHONE: 800.838.8666 1390 HWY. 15 S. SUITE 200, PO BOX 308 HUTCHINSON, MN 55350-0308 www.sehinc.com | CONSTRUCTION PLANS FOR REPAIR OF COUNTY DITCH NO. 20, MCLEOD COUNTY, MINNESOTA | CEMETERY | FILE NO. MCLEO 131902 | <div style="border: 1px solid black; padding: 5px; display: inline-block;"> 5 8 </div> |
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NOTE:
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 EXISTING TILE LOCATION AND INVERTS ARE APPROXIMATE
 VERIFY ELEVATIONS AND LOCATION IN FIELD



NOTE:
 PLUG ENDS OF EXISTING TILE AND ABANDON IN PLACE
 EXISTING TILE LOCATION AND INVERTS ARE APPROXIMATE
 VERIFY ELEVATIONS AND LOCATION IN FIELD



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 DESIGNER: Cdv
 CHECKED BY: Cdv

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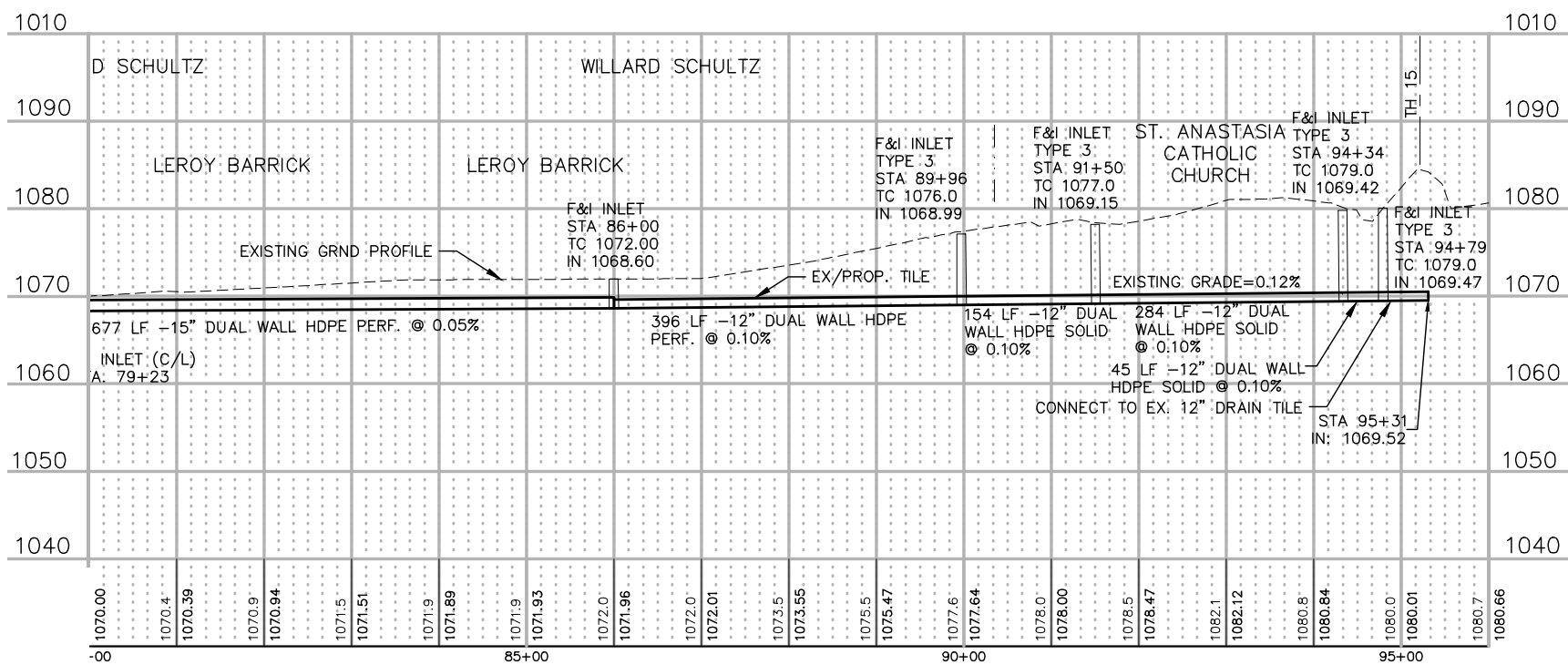
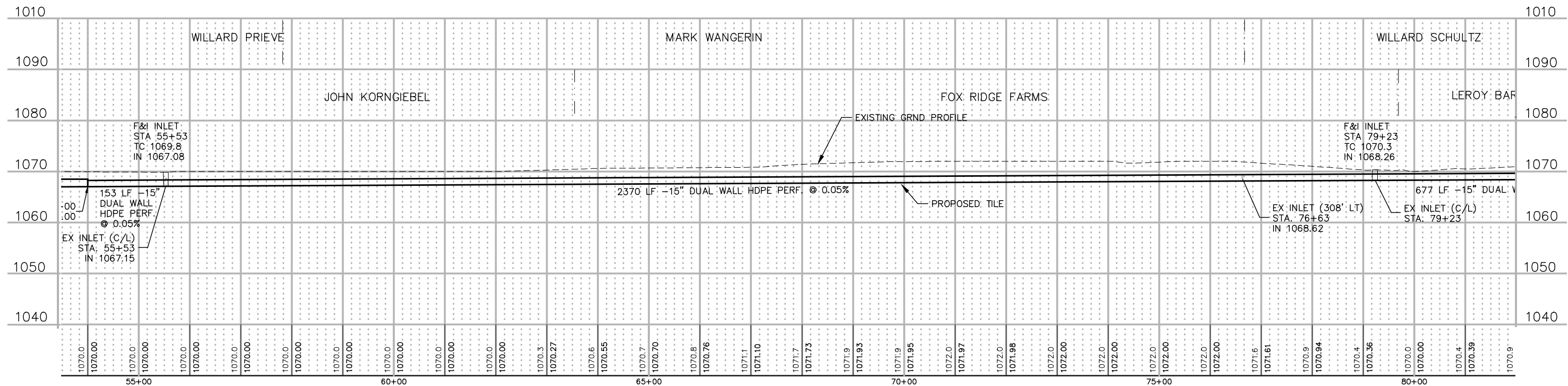
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Chuck Vermeersch
 CHUCK VERMEERSCH, PE
 Date: 8/10/15 Lic. No. 43842



CONSTRUCTION PLANS FOR
 REPAIR OF
 COUNTY DITCH NO. 20,
 MCLEOD COUNTY, MINNESOTA

PROFILES

FILE NO.
 MCLEO 131902
 6
 8



| EXISTING INLET SCHEDULE | | | | |
|-------------------------|-------|--------|------------|-----------|
| STRUCTURE | STA | OFFSET | INV. ELEV. | SIZE (IN) |
| INLET | 9+07 | 187 LT | - | |
| INLET | 19+93 | 130 RT | 1076.48 | 6 |
| INLET | 20+20 | 486 RT | 1078 | 6 |
| INLET | 23+13 | 47 LT | 1071.88 | 6 |
| INLET | 31+12 | 0.0 | 1065.84 | 8 |
| INLET | 34+42 | 0.0 | 1065.81 | 12 |
| INLET | 55+53 | 0.0 | 1067.15 | 18 |
| INLET | 76+63 | 308 LT | 1068.62 | 6 |
| INLET | 79+23 | 0.0 | | |

NOTE:
 PLUG ENDS OF EXISTING TILE AND ABANDON IN PLACE
 EXISTING TILE LOCATION AND INVERTS ARE APPROXIMATE
 VERIFY ELEVATIONS AND LOCATION IN FIELD

| PIPE TABLE | | | | |
|------------|--------|-----------------------------|-----------------------------|----------------------|
| STA FROM | STA TO | EXISTING TILE SIZE (INCHES) | PROPOSED TILE SIZE (INCHES) | PROPOSED TILE TYPE |
| 0+46 | 6+69 | 18 | 18 | CLASS III RCP |
| 6+99 | 7+89 | 18 | 18 | CLASS V RCP TIG |
| 7+89 | 23+13 | 18 | 18 | CLASS III RCP |
| 23+13 | 40+00 | 18 | 18 | DUAL WALL HDPE PERF. |
| 40+00 | 54+00 | 16 | 18 | DUAL WALL HDPE PERF. |
| 54+00 | 69+00 | 15 | 15 | DUAL WALL HDPE PERF. |
| 69+00 | 86+00 | 14 | 15 | DUAL WALL HDPE PERF. |
| 86+00 | 89+97 | 12 | 12 | DUAL WALL HDPE PERF. |
| 89+97 | 94+82 | 12 | 12 | DUAL WALL HDPE SOLID |

| PROPOSED INLET AND MANHOLE SCHEDULE | | | | |
|-------------------------------------|-------|--------|------------|------------|
| STRUCTURE | STA | OFFSET | INV. ELEV. | SIZE (IN.) |
| MANHOLE | 4+77 | 0 | 1058.27 | - |
| MANHOLE | 6+69 | 0 | 1062.87 | - |
| MANHOLE | 7+89 | 0 | 1062.99 | - |
| MANHOLE | 23+13 | 0 | 1064.52 | - |
| INLET | 31+12 | 0 | 1065.32 | 8 |
| INLET | 34+42 | 0 | 1065.84 | 12 |
| INLET | 42+00 | 0 | 1066.4 | 12 |
| INLET | 55+53 | 0 | 1067.08 | 18 |
| INLET | 79+23 | 0 | 1068.26 | 12 |
| INLET | 86+00 | 0 | 1068.6 | 12 |
| INLET | 89+96 | 0 | 1068.99 | 12 |
| INLET | 91+50 | 0 | 1069.15 | 12 |
| INLET | 94+34 | 0 | 1069.42 | 12 |
| INLET | 94+79 | 0 | 1069.47 | 12 |

DRAWN BY: SJP
 DESIGNER: CJV
 CHECKED BY: CJV

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 Lic. No. 43842



CONSTRUCTION PLANS FOR
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PROFILE

FILE NO.
 MCLEOD 131902
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Project: REPAIR OF MCLEOD COUNTY DITCH NO. 20

SWPPP DESIGNER(S): SANDRA POMPLUN

Owner: MCLEOD COUNTY
830 East 11th St.
Glencoe, Minnesota 55336

CERTIFICATION: DESIGN OF CONSTRUCTION SWPPP EXP. MAY 31, 2018

SWPPP SUMMARY/OVERVIEW

This Stormwater Pollution Prevention Plan (SWPPP) has been developed by Short Elliott Hendrickson, Inc. for the owner to address the requirements of NPDES Permit MN R100001, Part III, Subpart A. This SWPPP includes a combination of narrative and references to plan sheets that describe the temporary and permanent storm water management plan for the project. The numbered sections below correspond to the same sections of the NPDES Permit.

PART III. STORMWATER DISCHARGE DESIGN REQUIREMENTS

A. Stormwater Pollution Prevention Plan

Nature of construction activity:

This ditch maintenance project consists of the repair and replacement of tile within the project area as shown in the project drawings.

- 1. Person knowledgeable in erosion prevention and sediment control and who will oversee implementation of the SWPPP, and the installation, inspection, and maintenance of the erosion prevention and sediment control BMPs before and during construction: Contractor.

Responsible for long-term operation and maintenance:

Owner, MCLEOD COUNTY
830 East 11th St.
Glencoe, Minnesota 55336

- 2. Training requirements: See Part III.A.2.a,b,c,d. Contractor to submit proof of SWPPP maintenance and installation certification before construction is to begin.

CONTRACTOR'S SWPPP INSPECTOR: _____ PHONE NO. _____

CARD NUMBER: _____ CERTIFICATION: _____ EXP. _____

- 3. Narrative describing timing of installation of BMPs in Parts III, IV, Appendix A: The Contractor and the Owner or Owner's representative shall meet on site prior to the start of grading operations to discuss the locations where silt fence and other erosion control features are proposed and to recommend any additions or modifications prior to installation.

Silt fence and other erosion prevention features will be placed prior to any construction activities and on an as needed basis as determined by the contractor and owner or the owner's representative in the field.

The site is an existing ditch for McLeod County that is being maintained and repaired.

Erosion and sediment control devices shall be removed once the site is stabilized.

4. SWPPP Requirements:

a. Erosion Prevention and Sediment Control BMPs

Temporary: Erosion and sediment control prevention features will be placed as described herein and as determined in the field by the Contractor or Engineer. Existing vegetation will be retained whenever possible. The contractor will conduct construction operations to minimize the area of exposed or disturbed soil at any given time, to the extent practical.

Permanent Turf Establishment: Side slope areas of the ditch will be seeded. Disturbed areas of the site where seeding is required will be seeded with Mn/DOT Seed Mixtures as approved by the McLeod County.

The site is an existing ditch for McLeod County that is being maintained and repaired.

b. Estimated preliminary quantities tabulation

- Rock Log Inlet Protection - 100 L.F.
- Preassembled Silt Fence - 300 L.F.
- Permanent Seeding MnDot Mix 25-141 - 4,000 S.Y.
- Mulch Material MnDot Type 1 and Disk Anchoring -3 Tons

c. Impervious surface

Preconstruction 0 acres of Impervious
Post Construction 0 acres of Impervious

d. Site map with existing and final grades and drainage areas, soil types and impervious surfaces.

e. Locations of areas not to be disturbed: Areas within the construction limits to be disturbed are shown in the cross sections of the project drawings. Areas adjacent to and outside of the construction limits are in agricultural production and will not be disturbed as part of the project.

f. Locations where construction will be phased to minimized exposed soil areas: The entire project will be phased as described in Part III.A.3

g. Surface waters and wetlands within 1 mile that will receive stormwater: Otter (North Arm/Campbells), Crow River South Fork

- 5. Amendments to the SWPPP:
 - The SWPPP will be amended as needed and/or as required by provisions of the Permit.All exposed soil areas must be stabilized as soon as possible to limit soil erosion but in no case later than seven (7) days after the construction activity in that portion of the site has temporarily or permanently ceased.
 - Seeding shall be done weekly for the areas disturbed that week.

- 6. Mitigation measures required from previous reviews (EAW, EIS, local, etc): n/a

- 7. Karst and drinking water supply management area measures: n/a

- 8. Calcareous fen: n/a

- 9. Discharges to Impaired waters and TMDL: Crow River South Fork 07010205-540) Mercury in Fish Major Watershed: South Fork of Crow River

- A. Temporary Sediment Basins
Use of temporary sediment basins is not anticipated.

- B. Permanent Stormwater Management System
Stormwater will be managed through the use existing stormwater conveyance and treatment infrastructure

PART IV. CONSTRUCTION ACTIVITY REQUIREMENTS

- A. Stormwater Pollution Prevention Plan
The SWPPP and BMPs identified will be installed and implemented in an appropriate and functional manner.

- B. Erosion Prevention Practices
See Part III.A.3 for erosion prevention and sediment control BMPs.

- C. Sediment Control Practices
See Part III.A.3 for erosion prevention and sediment control BMPs.

- D. Dewatering and Basin Draining
 - Dewatering is incidental to the project. If any dewatering is required, the contractor must either outlet the water to a temporary sediment basin or utilize a sediment control system approved by engineer in the field.
 - Discharge water shall be properly treated to effectively remove sediment.
 - Discharge water shall be dispersed over effective energy dissipation measure

- E. Inspections and Maintenance
The construction site will be observed by the contractor's SWPPP inspector once every 7 days during active construction and within 24 hours after a rainfall event greater than 0.5 inches in 24 hours.

Repairs must be made within 24 hours of discovering BMP maintenance needs

When sediment is observed up to approximately one-third of the height of silt fence, sediment will be removed. Silt fence will be repaired, replaced, or supplemented if it becomes nonfunctional.

Tracked sediment will be removed within 24 hrs of discovery.
Sediment will be removed from conveyances within 7 days.

Permanent seeding will be observed for growth and washouts.

A summary maintenance/construction observation report will be recorded after each site visit/observation, with information outlined in Part IV.E.2

F. Pollution Prevention Management Measures

- 1. Solid Waste: Collected sediment, asphalt and concrete millings, floating debris, paper, plastic, fabric, construction and demolition debris and other wastes must be disposed of properly and must comply with MPCA disposal requirements. No stockpiling on site.
- 2. The disposal of any hazardous waste and materials will comply with MPCA regulations.
- 3. External washing of trucks, construction vehicles, or engine degreasing shall not be allowed on site.
- 4. Concrete washout will not be allowed on site unless the proper disposal methods are followed according to guidelines set forth by MPCA.

G. Final Stabilization

See Part III.A.3 for permanent erosion and sediment control.
The permittee will submit a Notice of Termination (NOT) within 30 days after final stabilization is complete.

- All soil disturbing activities have been completed.
- Exposed soils have been uniformly stabilized to min. 70% vegetation coverage.
- All ditches, ponds, storm sewer conveyance systems have been cleared of sediment.
- All BMPs have been properly removed and disposed of.

Appendix A.

- A. General Requirements
All requirements in this Appendix are in addition to BMPs already specified. The provisions in this Appendix take precedence.

- B. Requirements for Discharge to Special Water
n/a

- C. Additional BMPs for Special Waters & Impaired Waters
All exposed soil areas must be stabilized as soon as possible to limit soil erosion but in no case later than seven (7) days after the construction activity in that portion of the site has temporarily or permanently ceased. Seeding shall be done weekly for the areas disturbed that week. The entire project will be phased as described in Part III.A.3

- D. Requirements for Discharging to Wetlands
n/a

- E. Discharges Requiring Environmental Review
n/a

- F. Discharges Affecting Endangered or Threatened Species
n/a

- G. Discharges Affecting Historic Places or Archeological Sites
n/a

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DRAWN BY: SJP
DESIGNER: CJV
CHECKED BY: CJV

| DESIGN TEAM | NO. | BY | DATE | REVISIONS |
|-------------|-----|----|------|-----------|
| | | | | |

I HEREBY CERTIFY THAT THIS PLAN WAS PREPARED BY ME OR UNDER MY DIRECT SUPERVISION AND THAT I AM A DULY LICENSED PROFESSIONAL ENGINEER UNDER THE LAWS OF THE STATE OF MINNESOTA.
Chuck Vermeersch
CHUCK VERMEERSCH, PE
43842
8/10/15



CONSTRUCTION PLANS FOR
REPAIR OF
COUNTY DITCH NO. 20,
MCLEOD COUNTY, MINNESOTA

STORM WATER
POLLUTION PREVENTION PLAN

FILE NO.
MCLEO 131902

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