



CITY OF DULUTH
PURCHASING DIVISION
Room 100 City Hall
411 West First Street
Duluth, Minnesota 55802-1199
218/730-5340
purchasing@duluthmn.gov

Addendum 2
File 17-0472
Project: Clyde Connector Trail Restoration

This addendum serves to notify all bidders of the following changes to the solicitation documents:

1. Pre-bid sign-in sheet for pre-bid meeting held on August 10, 2017 is posted to the website (<http://www.duluthmn.gov/purchasing/bids-request-for-proposals/>).
2. Bids for this project, as well as the Stewart Creek Bridge Restoration project, are due Thursday August 17, 2017 at 2 pm (due at same time).
3. Stakes will be provided along centerline of the trail for planned elevations/construction. Common excavation quantities will be measured for payment based on these elevations and finished cross section in the field. The trail shall be constructed with a width of 10 feet, but can be constructed to a minimum width of 6 feet in areas where trees or large boulders or bedrock prohibit wider construction. Field changes in width shall be authorized by the Engineer or City of Duluth.
4. To mitigate tree removal near the Skyline parking lot, the trail will stay on existing alignment from station 37+00 to the top end, Station 42+68 instead of moving west to lessen grade.
5. The project is intended to be awarded to the firm with the lowest base bid with alternates authorized to the awarded firm based on remaining budget funds. However, the City still reserves the right to split the award where there is substantial savings to the City, to waive informalities, and to reject any and all bids.
6. Details 2/3 and 3/3 showing the construction of stone retaining walls along the Clyde Trail have been revised. The intent of the details is to illustrate the use of natural stone, obtained from grading work on the project site, to create small stone retaining walls and armoring. The nature of the work would be for the Contractor to salvage larger stone suitable for creating these walls from the common excavation materials encountered onsite. The use of these walls is to provide support for the edges of the trail base and protection against erosion. The work shall be paid for as

Stone Retaining Wall (SY) as measured in the field.

7. Two 12-inch diameter CMP culverts have been added to the project work per the SEQ on Sheet 2 of the Plan and as shown at the locations noted on Sheet 4 of the Plans.

8. Obscure and Revegetate Existing Trail pay item is provided for work done to obscure and remove existing trail grade from use between Stations 32+00 to 21+ 00 and 20+00 to 17+00 as shown on the layout on Sheet 4 of the Plans. Because the trail is being extended in length and on a new alignment to improve grades for trail users, the old alignment needs to be removed from public use. This can be accomplished by placing extra common excavation over these areas, seeding, and placement of scattered boulders to discourage use by the public and to foster growth of plants to cover the old alignment. Seed mix used to re-vegetate these areas should be the Mixture 36-311. All materials, labor, and equipment necessary to accomplish this work shall be paid for under this pay item.

9. All excavated material is estimated to be reused within the limits project. There are areas to use common excavation in construction of storm water berms/ponding areas, embankment in areas where the trail is being constructed in low/slope areas requiring fill per the Plans. It is permissible for contractors to flatten in-slopes, use excess material in trail obliteration areas, and to place excess material in old borrow areas as noted along the trail corridor. Handling and disposal of any excess material shall be the responsibility of the contractor.

10. A revised Exhibit A to the Bid form is attached.

11. An updated planset is attached.

12. Updated MN105 prevailing wage rates are attached.

Please acknowledge receipt of this Addendum by initialing and dating Addendum #2 below the bid form on the invitation for bids.

Posted: August 14, 2017

EXHIBIT A to Bid Form - REVISED
17-0472 Clyde Connector Trail Restoration

| BASE BID | | | | | | |
|--|--------------|---|-----------------|--------------------|------------|-----------|
| LINE NO. | SPEC. NUMBER | ITEM DESCRIPTION | UNIT OF MEASURE | ESTIMATED QUANTITY | UNIT PRICE | TOTAL |
| 1 | 2012.601 | TRAFFIC CONTROL | Lump Sum | 1 | \$ | \$ |
| 2 | 2021.501 | MOBILIZATION | Lump Sum | 1 | \$ | \$ |
| 3 | 2101.501 | CLEARING | Acre | 1.5 | \$ | \$ |
| 4 | 2101.502 | CLEARING (4" OR GREATER) | Tree | 39 | \$ | \$ |
| 5 | 2101.506 | GRUBBING | Acre | 1.5 | \$ | \$ |
| 6 | 2105.501 | COMMON EXCAVATION | Cubic Yard | 2940 | \$ | \$ |
| 7 | 2105.503 | ROCK EXCAVATION | Cubic Yard | 250 | \$ | \$ |
| 8 | 2105.604 | GEOTEXTILE FABRIC TYPE V | Square Yard | 240 | \$ | \$ |
| 10 | 2118.603 | AGGREGATE TRAIL SURFACING (CV) 3/4" LIMESTONE | Cubic Yard | 460 | \$ | \$ |
| 12 | 2411.604 | STONE RETAINING WALL | Square Yard | 300 | \$ | \$ |
| 13 | 2501.511 | 12" CS PIPE CULVERT | Linear Foot | 64 | \$ | \$ |
| 14 | 2540.602 | SITE IDENTIFICATION SIGN | Each | 2 | \$ | \$ |
| 15 | 2541.602 | OBSCURE AND REVEGETATE EXISTING TRAIL | Square Yard | 870 | \$ | \$ |
| 16 | 2571.502 | CONIFEROUS TREE 4' HT B&B | Tree | 75 | \$ | \$ |
| 17 | 2571.502 | DECIDUOUS TREE 2" CALL BR | Tree | 86 | \$ | \$ |
| 18 | 2571.602 | TREE PROTECTION | Each | 10 | \$ | \$ |
| 19 | 2572.511 | TRAIL SPILLWAY | Each | 10 | \$ | \$ |
| 20 | 2573.535 | CONSTRUCTION STABILIZED EXIT | Each | 1 | \$ | \$ |
| 21 | 2573.533 | SEDIMENT CONTROL LOG TYPE COMPOST | Linear Foot | 1420 | \$ | \$ |
| 22 | 2574.508 | FERTILIZER TYPE 10-10-10 | Pound | 420 | \$ | \$ |
| 23 | 2574.525 | FILTER TOPSOIL BORROW | Cubic Yard | 245 | \$ | \$ |
| 24 | 2575.501 | SEEDING | Acre | 1.2 | \$ | \$ |
| 25 | 2575.502 | SEED, MIXTURE 36-311 | Pound | 41 | \$ | \$ |
| 26 | 2575.523 | EROSION CONTROL BLANKET, CATEGORY 3 | Square Yard | 5270 | \$ | \$ |
| TOTAL FOR BASE BID (transfer this amount to the Bid Form) | | | | | | \$ |

| ALTERNATE 1 - DWP GRADING NEAR REMOVED TRESTLE | | | | | | |
|--|--------------|--------------------------|-----------------|-----------|------------|-------|
| LINE NO. | SPEC. NUMBER | ITEM DESCRIPTION | UNIT OF MEASURE | ALT 1 DWP | UNIT PRICE | TOTAL |
| 3 | 2101.501 | CLEARING | Acre | 0.1 | \$ | \$ |
| 4 | 2101.502 | CLEARING (4" OR GREATER) | Tree | 1 | \$ | \$ |
| 5 | 2101.506 | GRUBBING | Acre | 0.1 | \$ | \$ |
| 6 | 2105.501 | COMMON EXCAVATION | Cubic Yard | 236 | \$ | \$ |
| 8 | 2105.604 | GEOTEXTILE FABRIC TYPE V | Square Yard | 30 | \$ | \$ |
| 9 | 2118.501 | SALVAGE AGGREGATE | Cubic Yard | 50 | \$ | \$ |

| | | | | | | |
|---|----------|---|-------------|-----|----|----|
| 10 | 2118.603 | AGGREGATE TRAIL SURFACING (CV) 3/4" LIMESTONE | Cubic Yard | 37 | \$ | \$ |
| 12 | 2411.604 | STONE RETAINING WALL | Square Yard | 150 | \$ | \$ |
| 19 | 2572.511 | TRAIL SPILLWAY | Each | 2 | \$ | \$ |
| 21 | 2573.533 | SEDIMENT CONTROL LOG TYPE COMPOST | Linear Foot | 160 | \$ | \$ |
| 22 | 2574.508 | FERTILIZER TYPE 10-10-10 | Pound | 35 | \$ | \$ |
| 24 | 2575.501 | SEEDING | Acre | 0.1 | \$ | \$ |
| 25 | 2575.502 | SEED, MIXTURE 36-311 | Pound | 3 | \$ | \$ |
| 26 | 2575.523 | EROSION CONTROL BLANKET, CATEGORY 3 | Square Yard | 370 | \$ | \$ |
| TOTAL FOR ALTERNATE 1 (transfer this amount to the Bid Form) | | | | | | \$ |

| ALTERNATE 2 - LOWER CLYDE | | | | | | |
|---|--------------|---|-----------------|----------------------|------------|-------|
| LINE NO. | SPEC. NUMBER | ITEM DESCRIPTION | UNIT OF MEASURE | ESTIMATED QUANTITIES | UNIT PRICE | TOTAL |
| 3 | 2101.501 | CLEARING | Acre | 0.9 | \$ | \$ |
| 4 | 2101.502 | CLEARING (4" OR GREATER) | Tree | 21 | \$ | \$ |
| 5 | 2101.506 | GRUBBING | Acre | 0.9 | \$ | \$ |
| 6 | 2105.501 | COMMON EXCAVATION | Cubic Yard | 1884 | \$ | \$ |
| 8 | 2105.604 | GEOTEXTILE FABRIC TYPE V | Square Yard | 120 | \$ | \$ |
| 10 | 2118.603 | AGGREGATE TRAIL SURFACING (CV) 3/4" LIMESTONE | Cubic Yard | 595 | \$ | \$ |
| 12 | 2411.604 | STONE RETAINING WALL | Square Yard | 450 | \$ | \$ |
| 15 | 2541.602 | OBSURE AND REVEGETATE EXISTING TRAIL | Square Yard | 1050 | \$ | \$ |
| 17 | 2571.502 | DECIDUOUS TREE 2" CALL BR | Tree | 16 | \$ | \$ |
| 19 | 2572.511 | TRAIL SPILLWAY | Each | 6 | \$ | \$ |
| 21 | 2573.533 | SEDIMENT CONTROL LOG TYPE COMPOST | Linear Foot | 625 | \$ | \$ |
| 22 | 2574.508 | FERTILIZER TYPE 10-10-10 | Pound | 210 | \$ | \$ |
| 24 | 2575.501 | SEEDING | Acre | 0.6 | \$ | \$ |
| 25 | 2575.502 | SEED, MIXTURE 36-311 | Pound | 21 | \$ | \$ |
| 26 | 2575.523 | EROSION CONTROL BLANKET, CATEGORY 3 | Square Yard | 2944 | \$ | \$ |
| TOTAL FOR ALTERNATE 2 (transfer this amount to the Bid Form) | | | | | | \$ |

| ALTERNATE 3 - subsume 3/4"- limestone with Class 5 gravel* | | | | | | |
|--|--------------|---|-----------------|----------------------|------------|--------|
| LINE NO. | SPEC. NUMBER | ITEM DESCRIPTION | UNIT OF MEASURE | ESTIMATED QUANTITIES | UNIT PRICE | TOTAL* |
| 11 | 2118.603 | AGGREGATE TRAIL SURFACING (CV) CL.5 | Cubic Yard | 1092 | \$ | \$ |
| 10 | 2118.603 | AGGREGATE TRAIL SURFACING (CV) 3/4" LIMESTONE | Cubic Yard | 1092 | \$ | \$ |
| INCREASE/DECREASE* FOR ALTERNATE 3 (transfer this amount as an increase/decrease to the Bid Form) | | | | | | \$ |

* Subtract the limestone price from the Class 5 price. Enter the difference as an increase or decrease on the bid form.

The 3/4"- limestone is already included in the Base, Alt 1 and Alt 2 bids. Alt 3 will compare pricing with Class 5 gravel.

LEGEND

EXISTING

| | |
|--|---------------------------------|
| | MAJOR CONTOUR (10') |
| | MINOR CONTOUR (2') |
| | EXISTING TRAIL |
| | BITUMINOUS |
| | CENTERLINE |
| | OVERHEAD ELECTRIC |
| | APPROXIMATE PROPERTY BOUNDARIES |

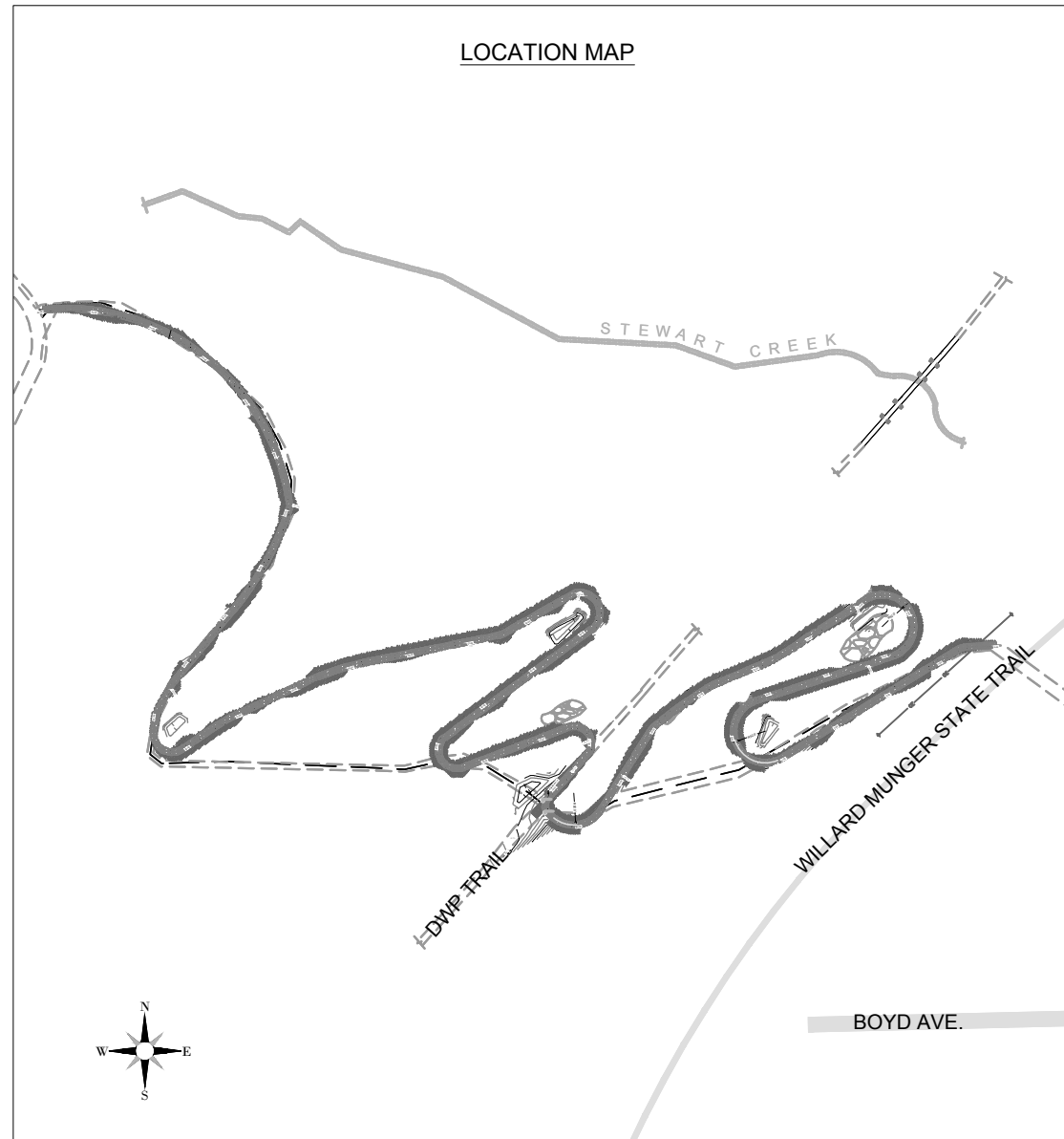
PROPOSED

| | |
|--|--------------------------------|
| | PROPOSED CONTOUR - MAJOR (10') |
| | PROPOSED CONTOUR - MINOR (2') |
| | 4" SLOTTED DRAINTILE |
| | SILT FENCE |
| | STORM SEWER |
| | RIP RAP/ ROCK ARMORING |
| | ROCK STABILIZED ENTRANCE |
| | SEEDING |
| | STORMWATER BASIN |
| | TRAIL SPILLWAY |

CONSTRUCTION PLANS FOR:
CLYDE CONNECTOR TRAIL
CITY OF DULUTH

CONSTRUCTION PLANS FOR TRAIL REALIGNMENT, GRADING, AND STORMWATER CONTROLS.

LOCATION MAP



SPECIFICATION REFERENCE

- 1.) THE MINNESOTA DEPARTMENT OF NATURAL RESOURCES "TRAIL PLANNING, DESIGN, AND DEVELOPMENT GUIDELINES" SHALL APPLY.
- 2.) THE 2016 MNDOT STANDARD SPECIFICATIONS FOR CONSTRUCTION SHALL APPLY.
- 3.) TRAFFIC CONTROL DEVICES AND SIGNING SHALL CONFORM TO THE MN MUTCD, INCLUDING THE FIELD MANUAL DATED FEBRUARY 2015.

SHEET LIST TABLE

| SHEET NUMBER | SHEET TITLE |
|--------------|-----------------------------------|
| 1 | TITLE SHEET |
| 2 | STATEMENT OF ESTIMATED QUANTITIES |
| 3 | TYPICAL SECTION |
| 4 | CLYDE CONNECTOR TRAIL LAYOUT |
| 5 | DETAILS |
| 6 | SWPPP |
| 8 | STORMWATER CONTROLS |
| 9 | PLAN & PROFILES |
| 20 | CROSS SECTIONS |

PROJECT LOCATION



ST. LOUIS COUNTY
CITY OF DULUTH
SECTION 27
T 49 , R 15

CONTRACTOR TO NOTIFY 911 PERSONNEL
PRIOR TO ALL ROAD CLOSURES.

THIS PLAN SET CONTAINS 27 SHEETS

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

DATE AUGUST 4, 2017 LIC. NO. 26422

EXISTING UTILITY LOCATIONS

THE CONTRACTOR SHALL VERIFY ALL EXISTING UNDERGROUND UTILITY LOCATIONS AND ELEVATIONS PRIOR TO CONSTRUCTION. ALL INPLACE UTILITIES MAY NOT BE SHOWN ON THIS PLAN & THOSE THAT ARE SHOWN, MAY NOT BE SHOWN IN THE EXACT LOCATIONS.

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

GOPHER STATE ONE CALL

651.454.0002
800.252.1166
811
1.866.640.3637 (EMERGENCY LOCATES ONLY)
<http://www.gopherstateonecall.org/submit>



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.
JEFFREY S. GOETZMAN
DATE AUGUST 4, 2017 LIC. NO. 26422



11 E. Superior Street Suite 420
Duluth, MN. 55802
218.724.8578
tkda.com

CLYDE CONNECTOR TRAIL

DULUTH

MINNESOTA

TITLE SHEET

PROJECT NO.
16346.000

RECORD NO. SHEET NO.
1

| NO. | DATE | BY | DESCRIPTION OF REVISIONS |
|-----|------|------|--------------------------|
| 5 | ---- | ---- | ----- |
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| 1 | ---- | ---- | ----- |

| | |
|----------|-------|
| DESIGNED | DRAWN |
| WD | WD |
| CHECKED | |
| JG | |

| LINE NO. | NOTE NO. | SPEC. NUMBER | ITEM DESCRIPTION | UNIT OF MEASURE | BASE BID | ALT 1 DWP | ALT 2 LOWER CLYDE | ALT 3 SURFACING |
|----------|----------|--------------|---|-----------------|----------|-----------|-------------------|-----------------|
| 1 | 11 | 2012.601 | TRAFFIC CONTROL | Lump Sum | 1 | | | |
| 2 | | 2021.501 | MOBILIZATION | Lump Sum | 1 | | | |
| 3 | 1 | 2101.501 | CLEARING | Acre | 1.5 | 0.1 | 0.9 | |
| 4 | 1 | 2101.502 | CLEARING (4" OR GREATER) | Tree | 39 | 1 | 21 | |
| 5 | 1 | 2101.506 | GRUBBING | Acre | 1.5 | 0.1 | 0.9 | |
| 6 | 2 | 2105.501 | COMMON EXCAVATION | Cubic Yard | 2940 | 236 | 1884 | |
| 7 | | 2105.503 | ROCK EXCAVATION | Cubic Yard | 250 | | | |
| 8 | 5 | 2105.604 | GEOTEXTILE FABRIC TYPE V | Square Yard | 240 | 30 | 120 | |
| 9 | 6 | 2118.501 | SALVAGE AGGREGATE | Cubic Yard | | 50 | | |
| 10 | 7 | 2118.603 | AGGREGATE TRAIL SURFACING (CV) 3/4" LIMESTONE | Cubic Yard | 460 | 37 | 595 | |
| 11 | 7 | 2118.603 | AGGREGATE TRAIL SURFACING (CV) CL.5 | Cubic Yard | | | | 1092 |
| 12 | 8 | 2411.604 | STONE RETAINING WALL | Square Yard | 300 | 150 | 450 | |
| 13 | 15 | 2501.511 | 12" CS PIPE CULVERT | Linear Foot | 64 | | | |
| 14 | | 2540.602 | SITE IDENTIFICATION SIGN | Each | 2 | | | |
| 15 | 14 | 2541.602 | OBSCURE AND REVEGETATE EXISTING TRAIL | Square Yard | 870 | | 1050 | |
| 16 | 1 | 2571.502 | CONIFEROUS TREE 4' HT B&B | Tree | 75 | | | |
| 17 | 1 | 2571.502 | DECIDUOUS TREE 2" CALL BR | Tree | 86 | | 16 | |
| 18 | 9 | 2571.602 | TREE PROTECTION | Each | 10 | | | |
| 19 | 10 | 2572.511 | TRAIL SPILLWAY | Each | 10 | 2 | 6 | |
| 20 | 13 | 2573.535 | CONSTRUCTION STABILIZED EXIT | Each | 1 | | | |
| 21 | | 2573.533 | SEDIMENT CONTROL LOG TYPE COMPOST | Linear Foot | 1420 | 160 | 625 | |
| 22 | 4 | 2574.508 | FERTILIZER TYPE 10-10-10 | Pound | 420 | 35 | 210 | |
| 23 | 12 | 2574.525 | FILTER TOPSOIL BORROW | Cubic Yard | 245 | | | |
| 24 | 4 | 2575.501 | SEEDING | Acre | 1.2 | 0.1 | 0.6 | |
| 25 | 4 | 2575.502 | SEED, MIXTURE 36-311 | Pound | 41 | 3 | 21 | |
| 26 | 4 | 2575.523 | EROSION CONTROL BLANKET, CATEGORY 3 | Square Yard | 5270 | 370 | 2944 | |

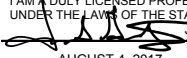
CONSTRUCTION NOTES:

1. ITEM INCLUDES CLEARING AND GRUBBING TREES AS NECESSARY TO PROVIDE CONTRACTOR WITH SITE ACCESS. ALL TREES/ROOTS SHALL BE CUT CLEANLY WITH A SAW OR AX ACCORDING TO DETAIL 2/5. ANY MAPLE OR BIRCH TREES >6" DIAMETER AT CHEST HEIGHT ARE SUBJECT TO THE UDC TREE REPLACEMENT REQUIREMENTS AND SHALL BE ONLY BE CUT UNDER THE DIRECTION OF THE CITY OR PROJECT ENGINEER. REPLACEMENT TREES SHALL BE PLANTED ON CITY PROPERTY BETWEEN STATION 34+00 AND SKYLINE PARKWAY. TREES AND SHRUBS REMOVED ONSITE MAY BE CHIPPED AND USED AS MULCH OR BLOWN AS GROUND COVER TO A MAXIMUM DEPTH OF 4". MULCH MAY ALSO BE MIXED UP TO 30% WITH FILTER TOPSOIL BORROW AND UTILIZED IN THE STORMWATER CONTROL FEATURES AS COMPOST.
2. ALTERNATE 1 INCLUDES TRAIL GRADING OF THE DWP TRAIL AT THE INTERSECTION OF THE DWP AND CLYDE CONNECTOR TRAILS. MAXIMUM GRADE ON THE DWP TRAIL SHALL BE 8.3% OR LESS TO MEET TRAIL ACCESSIBILITY REQUIREMENTS. EXCESS GRANULAR MATERIAL MAY BE USED TO FILL RUTS IN THE CLYDE TRAIL BELOW THE DWP TO IMPROVE CONSTRUCTION ACCESS. SEE SHEET 13 FOR DETAILS.
3. ALTERNATE 2 REPRESENTS THE PORTION OF THE CLYDE TRAIL BETWEEN 95TH AVE. WEST AND THE DWP TRAIL INTERSECTION. IF ALTERNATE IS NOT ACCEPTED, CONTRACTOR MUST ASSUME THAT ACCESS FROM 95TH AVE. WEST WILL ONLY BE IMPROVED ON THE EXISTING ALIGNMENT TO THE EXTENT REQUIRED FOR CONSTRUCTION ACCESS.
4. ALL DISTURBED AREAS SHALL BE SEEDED, BLANKETED AND STABILIZED. MNDOT SEED MIX 36-311 (WOODLAND EDGE NE) SHALL BE APPLIED AT A RATE OF 33.5 LBS/ AC.
5. GEOTEXTILE FABRIC SHALL BE INSTALLED AT THE SPILLWAY OVERFLOWS AND UNDER ANY RIP RAP ARMORING.
6. SALVAGE AGGREGATE ITEM SHALL INCLUDE ALL WORK AND MATERIALS ASSOCIATED WITH SALVAGING AND REINSTALLING AGGREGATE ALONG DWP TRAIL. AGGREGATE SHALL BE SALVAGED PRIOR TO GRADING. 6" OF AGGREGATE SHALL BE REINSTALLED AND COMPACTED ALONG REGRADED SECTION OF DWP TO MATCH EXISTING TRAIL.
7. AGGREGATE TRAIL SURFACING ITEM REPRESENTS 6" OF AGGREGATE MATERIAL, INSTALLED AND COMPACTED OVER THE TRAIL SURFACE. ALTERNATE 3 INCLUDED A SUBSTITUTION OF CLASS V MATERIAL INSTEAD OF ¾" MINUS CRUSHED LIMESTONE.
8. ITEM REPRESENTS NATURAL STONE RETAINING WALLS INSTALLED ALONG THE EDGE OF THE TRAIL WHERE EXISTING MATERIALS WOULD NOT RETAIN A 2:1 BACKSLOPE TO DAYLIGHT. SEE DETAIL 2⁄3 AND 3⁄5.
9. TREE PROTECTION SHALL BE PROVIDED AROUND MAPLE, BIRCH & PINE TREES THAT WILL REMAIN IN PLACE DURING CONSTRUCTION. A BARRIER SHALL BE CONSTRUCTED AROUND THE DRIP LINE OF THE TREE TO ENSURE THE TREE IS PROTECTED FROM MACHINE AND EQUIPMENT STRIKES AS WELL AS MATERIAL STORAGE ON THE ROOT SYSTEM.
10. ITEM REPRESENTS THE TRAIL SPILLWAY, ARMORING AND CHECK DAM DETAILED ON ON SHEET 3 AND 5. ALL MATERIALS CALLED OUT WITHIN THE DETAIL ARE CONSIDERED INCIDENTAL TO THE TRAIL SPILLWAY ITEM. CONTRACTOR TO ENSURE THE ENTIRE TRAIL DRAINS TO THE DOWNHILL SIDE OF THE TRAIL TREAD. ANY BERMS ON THE DOWNHILL SIDE SHALL BE CUT EVERY 25-50' TO ALLOW STORMWATER TO DISCHARGE OFF TRAIL TREAD.
11. TRAFFIC CONTROL ITEM SHALL INCLUDE FURNISHING AND INSTALLING BARRIERS, SIGNS AND FLASHERS TO CLOSE THE CLYDE TRAIL AT SKYLINE PARKWAY, AT THE DWP INTERSECTION AND THE INTERSECTION WITH THE WILLARD MUNGER TRAIL.
12. ITEM REPRESENTS THE PLANTING MEDIA WITHIN THE STORMWATER TREATMENT BASINS. BASINS SHALL HAVE A MINIMUM 12" OF FILTER MEDIA, BE SEEDED AND BLANKETED.
13. CONSTRUCTION STABILIZED EXITS SHALL BE INSTALLED AT THE WILLARD MUNGER/ 95 TH. AVE. EXIT TO PREVENT TRACKING INTO THE PAVED SURFACES.
14. ITEM SHALL INCLUDE WORK AND MATERIALS NECESSARY TO BARRICADE EXISTING TRAIL WITH BOULDERS AND RE-VEGETATE TO DISCOURAGE USE OF THE EXISTING TRAIL ALIGNMENT ONCE CONSTRUCTION IS COMPLETE.
15. ITEM INCLUDES REMOVAL AND REPLACEMENT OF 14 LF PVC PIPE WITH 14' OF 12" CS PIPE AT STATION ~41+50 AND INSTALLATION OF 50 LF OF 12" CS PIPE AT THE SKYLINE ENTRANCE TO THE MAGNEY SKI TRAIL, ACROSS FROM PARKING LOT.

Plot Date: 08/11/2017
Drawing name: K:\d\lul\lul_City\163460004_Production\01_CAD\02_Sheets\Title Sheet.dwg
User: City of Duluth, Project: Clyde Connector, Proposed, Basins

| | | | |
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| 5 | ---- | ---- | |
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| 3 | ---- | ---- | |
| 2 | ---- | ---- | |
| 1 | 8/11/17 | JG | ADDENDUM #1 |
| NO. | DATE | BY | DESCRIPTION OF REVISIONS |

| | |
|----------|-------|
| DESIGNED | DRAWN |
| WD | WD |
| CHECKED | |
| JG | |

| | |
|---|---------------------|
| 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. | |
|  | JEFFREY S. GOETZMAN |
| DATE | AUGUST 4, 2017 |
| LIC. NO. | 26422 |

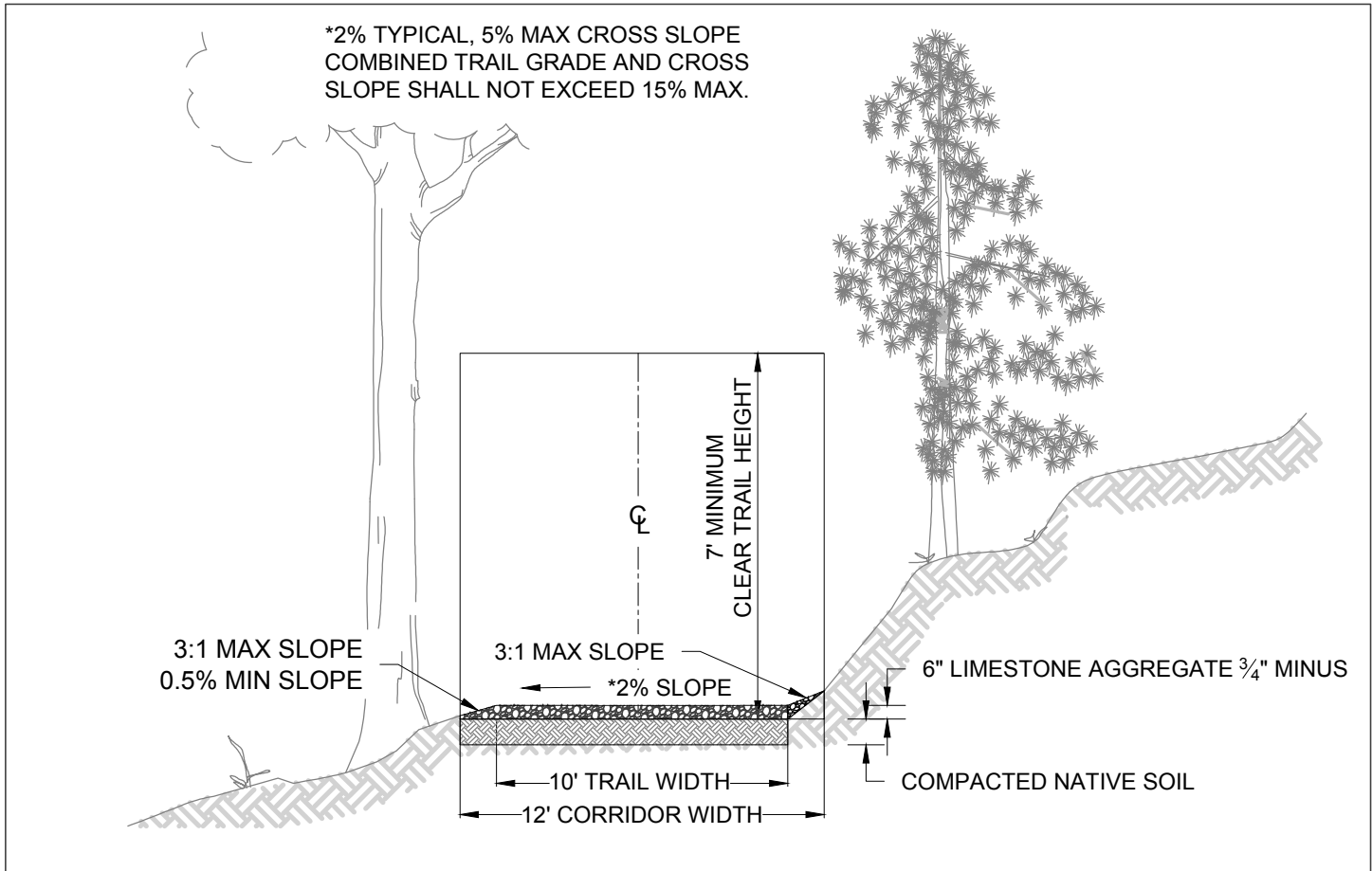


11 E. Superior Street Suite 420
Duluth, MN. 55802
218.724.8578
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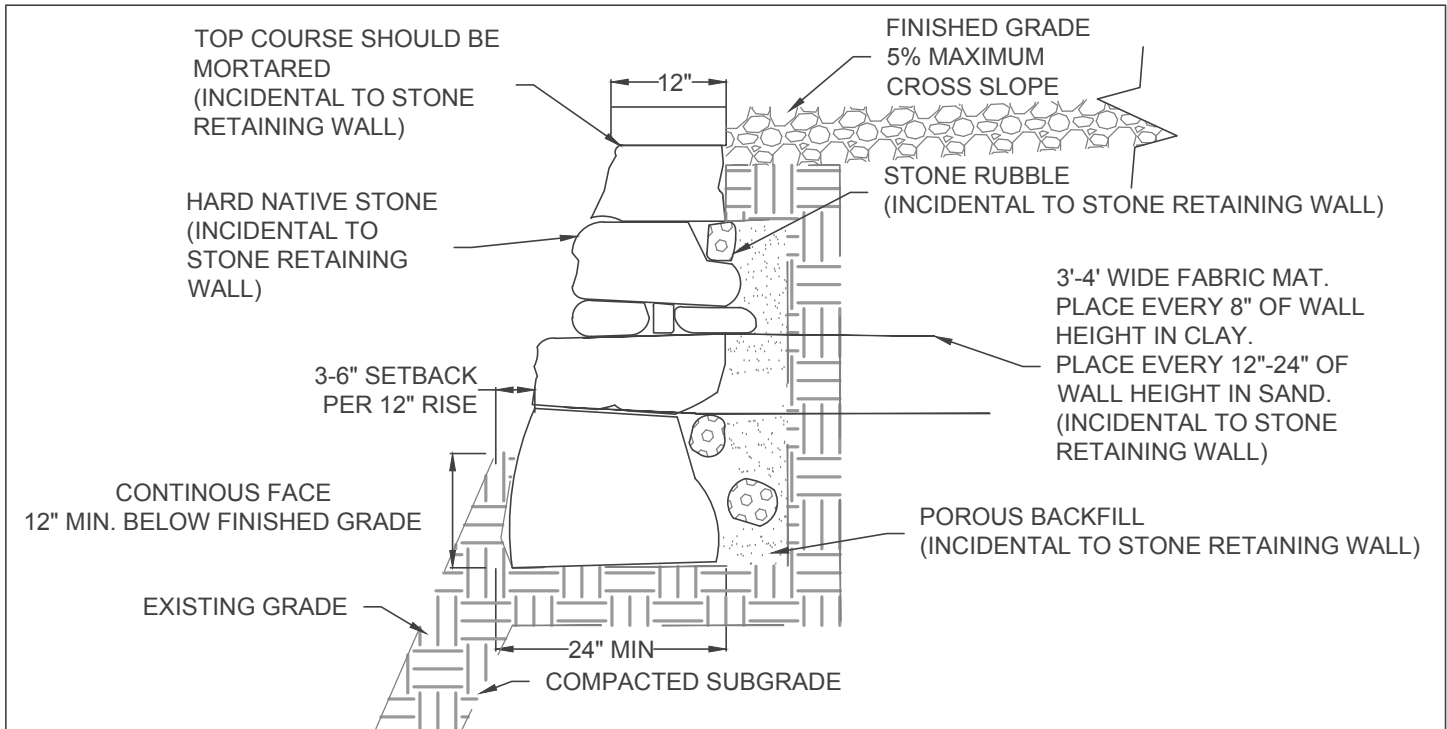
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| CLYDE CONNECTOR TRAIL | |
| DULUTH | MINNESOTA |

| | |
|-----------------------------------|--|
| STATEMENT OF ESTIMATED QUANTITIES | |
|-----------------------------------|--|

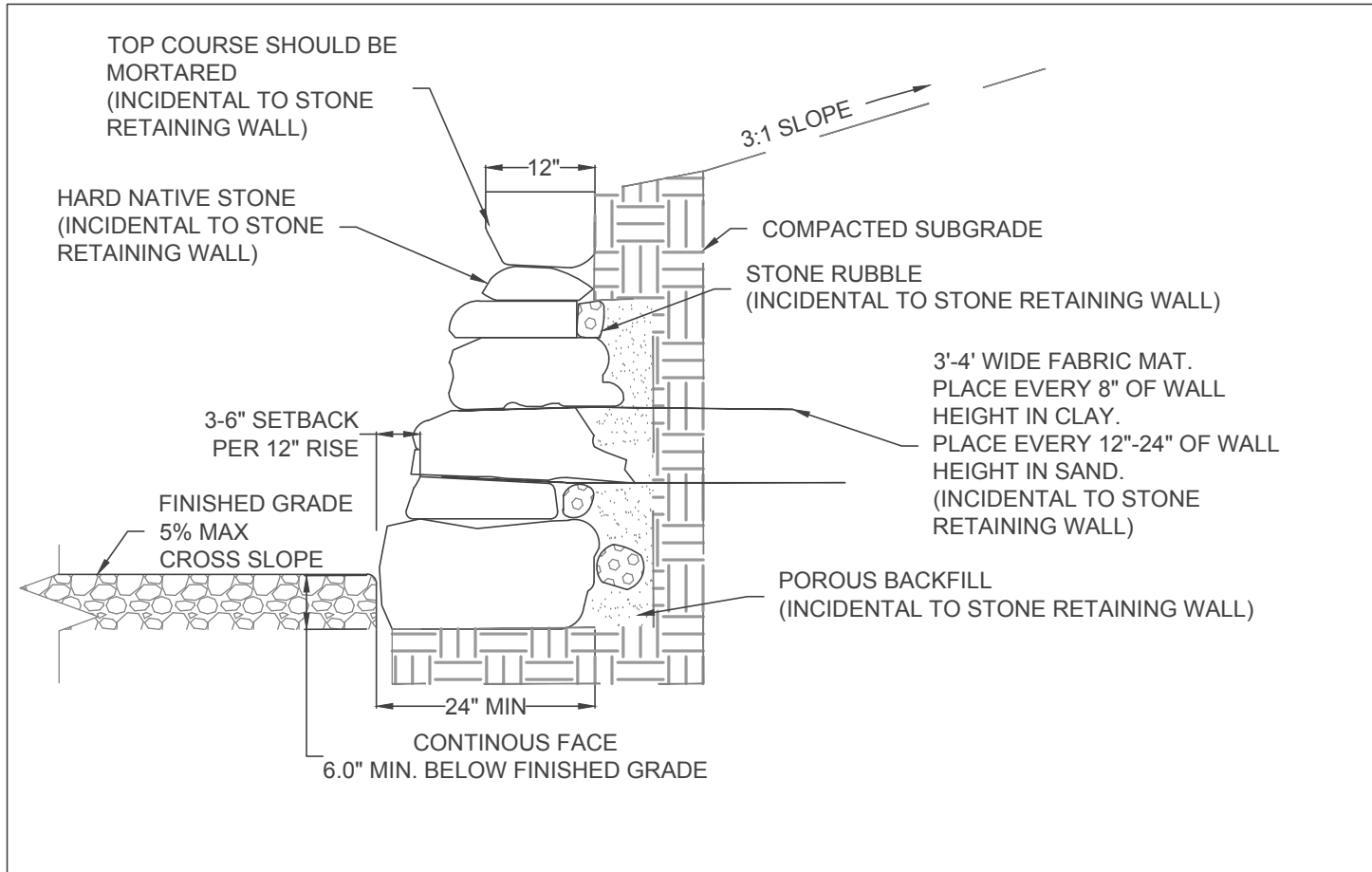
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| PROJECT NO. 16346.000 | |
| RECORD NO. | SHEET NO. 2R |



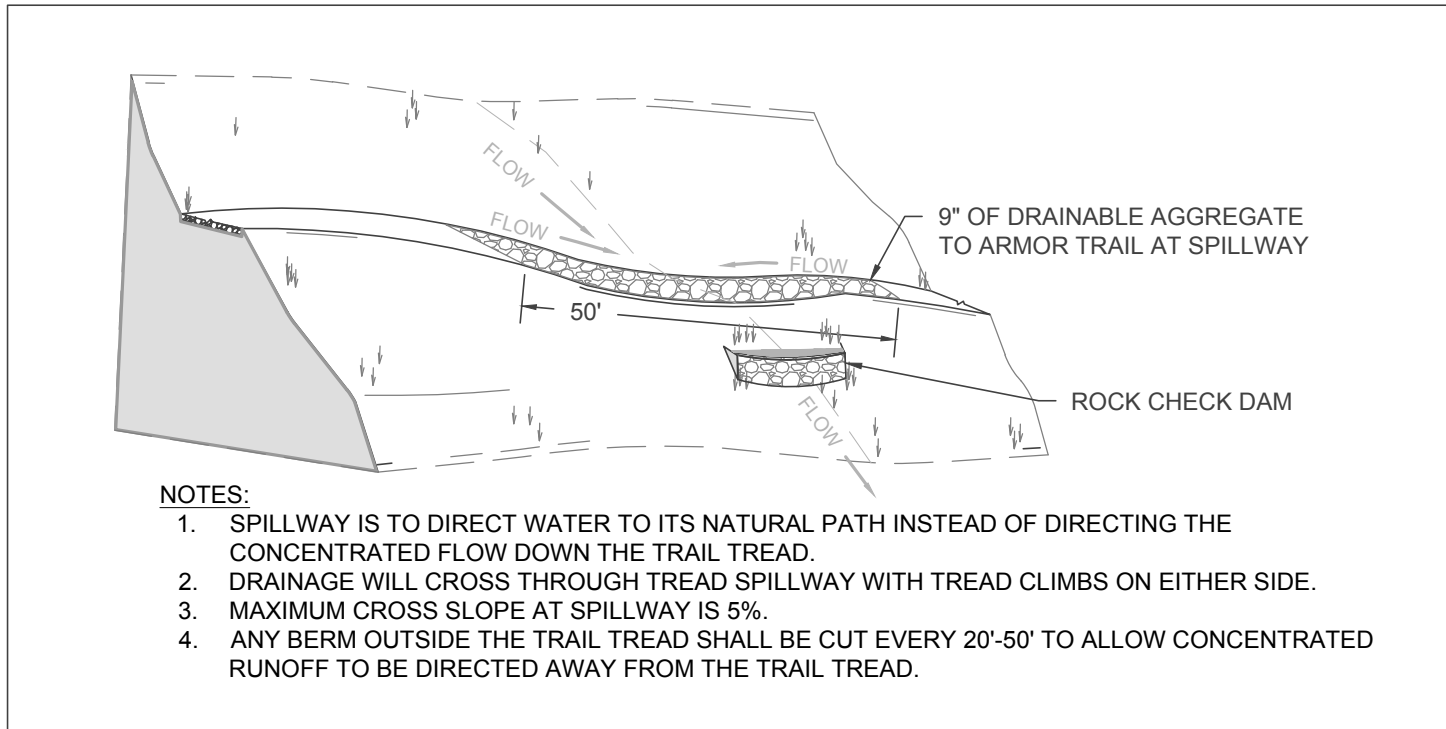
1
3 TYPICAL TRAIL SECTION
NO SCALE



3
3 STONE RETAINING WALL - LOWER SIDE WHERE DAYLIGHT SLOPES EXCEED 1:2
NO SCALE



2
3 STONE RETAINING WALL - UPPER SIDE WHERE DAYLIGHT SLOPES EXCEED 1:2
NO SCALE



- NOTES:
1. SPILLWAY IS TO DIRECT WATER TO ITS NATURAL PATH INSTEAD OF DIRECTING THE CONCENTRATED FLOW DOWN THE TRAIL TREAD.
 2. DRAINAGE WILL CROSS THROUGH TREAD SPILLWAY WITH TREAD CLIMBS ON EITHER SIDE.
 3. MAXIMUM CROSS SLOPE AT SPILLWAY IS 5%.
 4. ANY BERM OUTSIDE THE TRAIL TREAD SHALL BE CUT EVERY 20'-50' TO ALLOW CONCENTRATED RUNOFF TO BE DIRECTED AWAY FROM THE TRAIL TREAD.

4
3 TRAIL SPILLWAY
NO SCALE

Plot Date: 08/11/2017
Drawing Name: K:\A\Hull_City\1634600004_Production\01_CAD\02_Sheets\Typical Section.dwg
User: tkda

| NO. | DATE | BY | DESCRIPTION OF REVISIONS |
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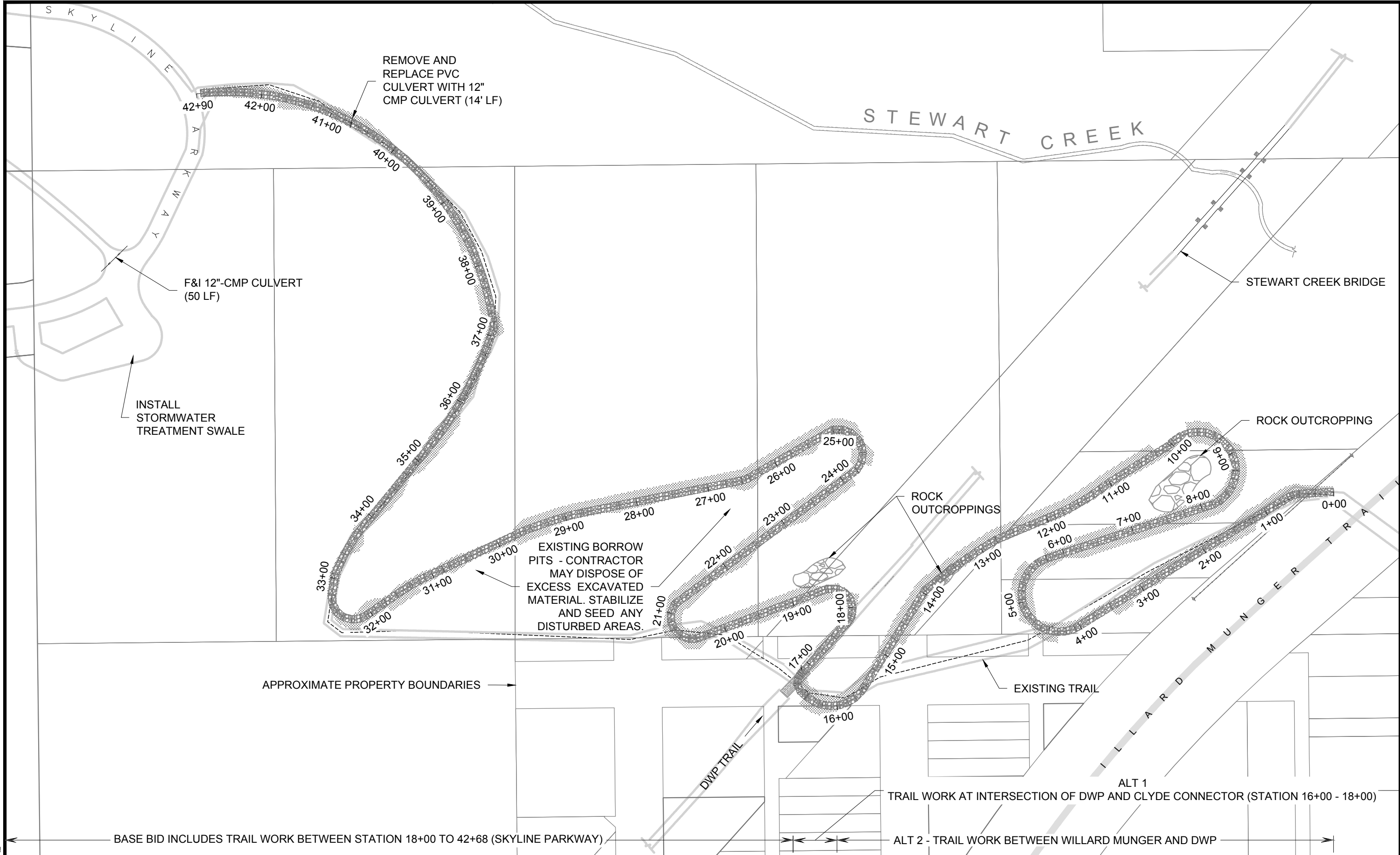
| | |
|--|-------------|
| DESIGNED WD | DRAWN WD |
| CHECKED JG | |
| I HEREBY CERTIFY THAT THIS PLAN WAS PREPARED BY ME OR UNDER MY DIRECT SUPERVISION AND THAT I AM A DULY LICENSED PROFESSIONAL ENGINEER UNDER THE LAWS OF THE STATE OF MINNESOTA. JEFFREY S. GOETZMAN DATE AUGUST 4, 2017 LIC. NO. 26422 | |



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Duluth, MN. 55802
218.724.8578
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| CLYDE CONNECTOR TRAIL | |
| DULUTH | MINNESOTA |
| PROJECT STATUS: DESIGN | |

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| TYPICAL SECTIONS | |
| PROJECT NO. 16346.000 | SHEET NO. 3 |



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JEFFREY S. GOETZMAN
DATE AUGUST 4, 2017 LIC. NO. 26422



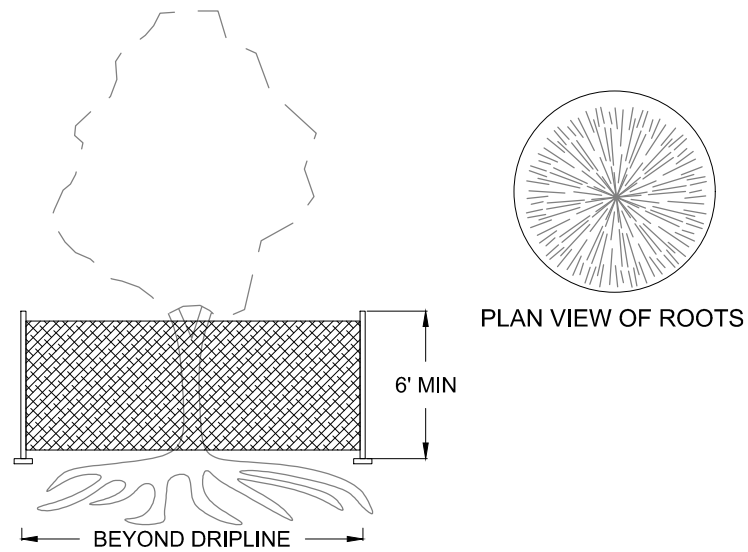
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| CLYDE CONNECTOR TRAIL | |
| DULUTH | MINNESOTA |

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| CLYDE CONNECTOR TRAIL LAYOUT | |
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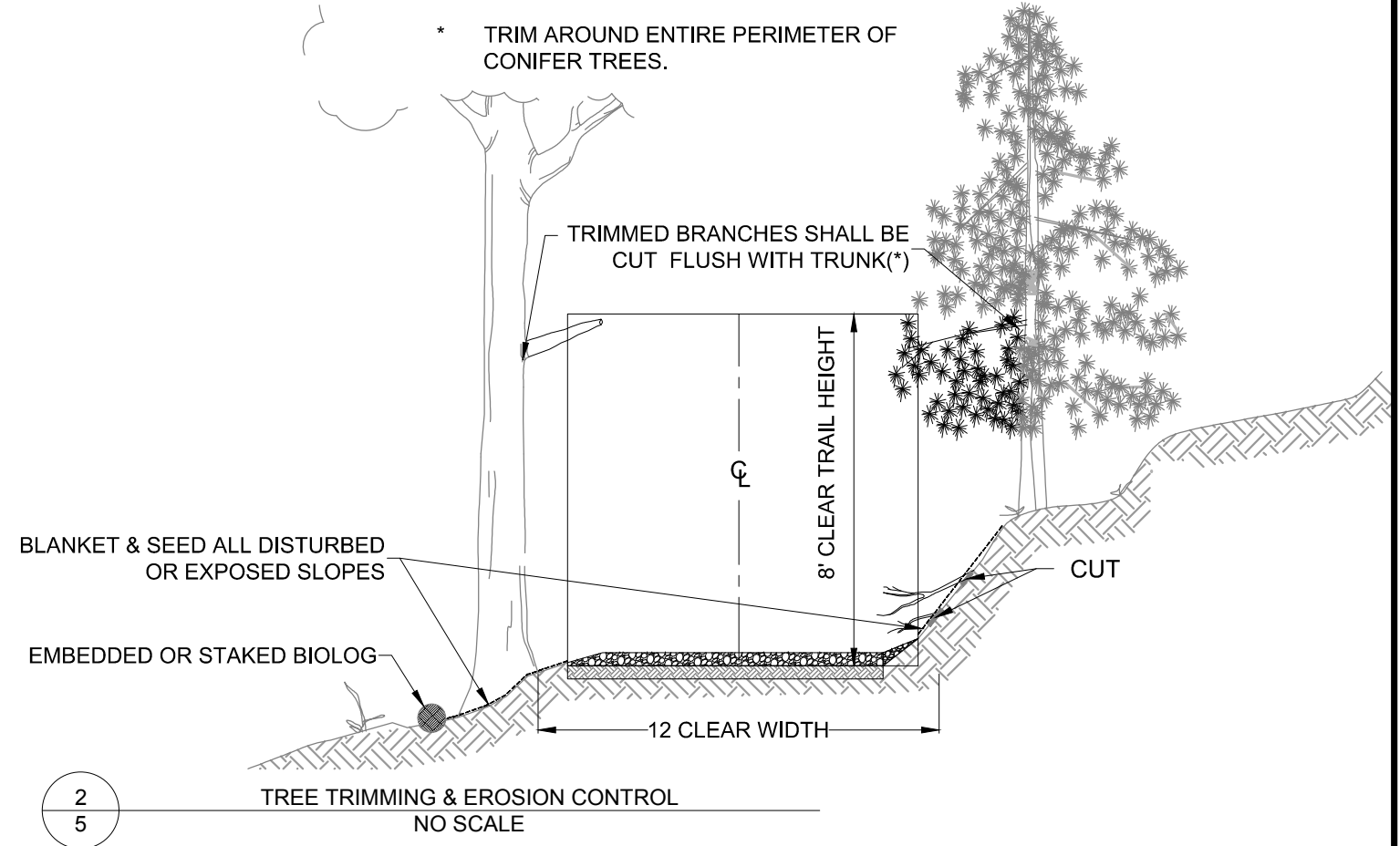
Plot Date: 08/11/2017
Drawing Name: K:\a\Houlihan_City\16346\000004_Production\01_CAD\01_Xrefs\Clyde Connector_Proposed_Base.dwg
Xrefs: Clyde Connector_Existing_Base



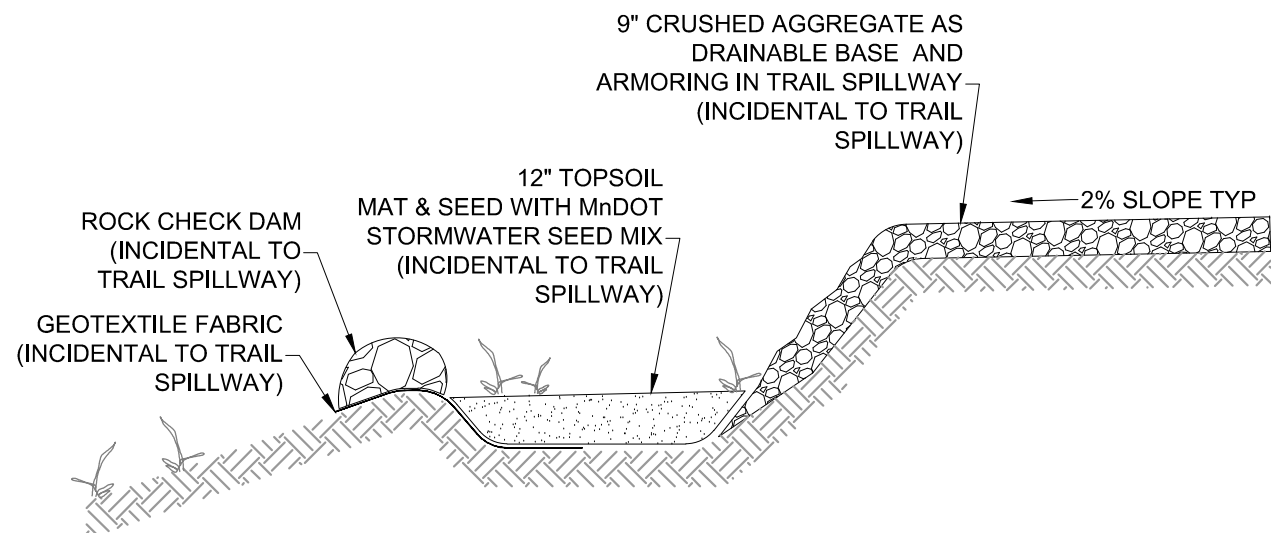
NOTES:

1. TREE PROTECTION SHALL BE IN PLACE PRIOR TO COMMENCING GRADING WORK.
2. DIAMETER OF PROTECTION ZONE SHOULD BE ONE FOOT FOR EACH INCH OF TRUNK DIAMETER BREAST HEIGHT OR $\frac{1}{2}$ HEIGHT OF TREE, WHICHEVER IS GREATER.
3. TEMPORARY FENCING (6 FT. HIGH) SHALL BE PLACED AT THE DRIP LINE OF THE TREE TO BE SAVED. FENCE SHALL COMPLETELY ENCIRCLE THE TREE(S). TO INSTALL FENCE POSTS, AVOID DRIVING POSTS OR STAKES INTO MAJOR ROOTS.
4. NO STOCKPILING OF MATERIALS, VEHICULAR TRAFFIC, OR STORAGE IS ALLOWED WITHIN THE LIMIT OF THE FENCING.

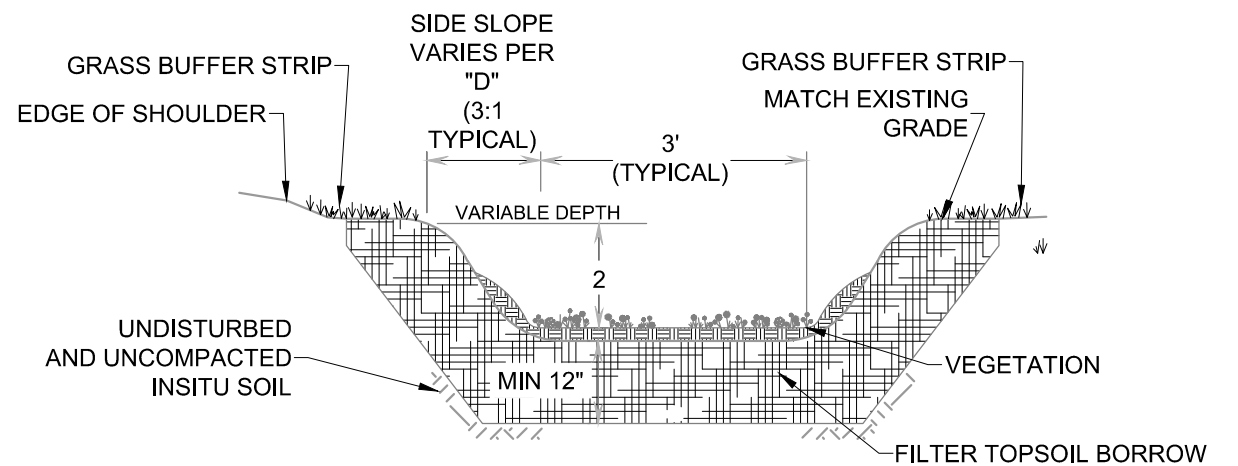
1
5 TREE PROTECTION
NO SCALE



2
5 TREE TRIMMING & EROSION CONTROL
NO SCALE



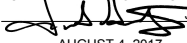
3
5 CHECK DAM AT TRAIL SPILLWAY
NO SCALE



4
5 STORMWATER TREATMENT BASIN
NO SCALE

FIELD BOOK:
Plot Date: 08/11/2017
Drawing name: K:\a-f\luluth_City\16346000\04_Production\01_CAD\02_Sheets\Details.dwg
User:

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| 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. | |
|  JEFFREY S. GOETZMAN DATE AUGUST 4, 2017 LIC. NO. 26422 | |



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CLYDE CONNECTOR TRAIL

DULUTH

MINNESOTA

DETAILS

| | |
|--------------------------|----------------|
| PROJECT NO. 16346.000 | |
| RECORD NO. | SHEET NO. 5 |

PROJECT DESCRIPTION

THIS PROJECTED WILL REALIGN THE CLYDE CONNECTOR TRAIL IN DULUTH MINNESOTA. GROUND DISTURBING ACTIVITIES ASSOCIATED TO THIS PROJECT WILL INCLUDED TRAIL CLEARING AND GRADING AND THE TOTAL LAND AREA ANTICIPATED TO BE DISTURBED BY THE PROJECT (EXCLUSIVE OF BORROW AND DISPOSAL AREAS) IS 2.6 ACRES.

SWPPP IMPLEMENTATION CONTACTS

| AGENCY | PERMIT | | PHONE/ EMAIL |
|--|--------|-------------------|--|
| PROJECT MANAGER | N/A | MICHAEL LEBEAU | 218.730.4434 mlebeau@duluthmn.gov |
| CONTRACTOR'S EROSION CONTROL SUPERVISOR | N/A | T.B.D. | PHONE EMAIL |
| CITY OF DULUTH | N/A | JIM SHOBERG, PLA | 218.730.4316 jshoberg@duluthmn.gov |
| PROJECT ENGINEER | N/A | JEFF GOETZMAN, PE | 218.491.7385 jeff.goetzman@tdka.com |
| MNDNR | N/A | T.B.D. | PHONE EMAIL |

CONSTRUCTION NOTES

CONSTRUCTION SHALL BE GOVERNED BY THE 2016 MNDOT STANDARD SPECIFICATIONS,
CITY OF DULUTH - MINNESOTA STANDARD CONSTRUCTION SPECIFICATIONS AND SPECIAL PROVISIONS.

THE CONTRACTOR SHALL BE RESPONSIBLE FOR IMPLEMENTATION OF THE SWPPP AND THE INSTALLATION, INSPECTION AND MAINTENANCE OF THE EROSION AND SEDIMENT CONTROL BMPs FOR THE DURATION OF THE PROJECT.

THE CONTRACTOR SHALL KEEP THE INSPECTION AND MAINTENANCE LOGS IN ACCORDANCE WITH THIS SWPPP, ALL PERMITS, ALL INSPECTION AND MAINTENANCE RECORDS AND DESIGN CALCULATIONS. THE CONTRACTOR SHALL MAINTAIN A RESPONSIBLY SIZED STOCKPILE OF EROSION CONTROL DEVICES.

CALCULATIONS

TOTAL DISTURBED AREA = 2.6 ACRES
POST CONSTRUCTION IMPERVIOUS AREA = 1.0 ACRES
EXISTING IMPERVIOUS AREA = 0.9 ACRES
IMPERVIOUS NET = 0.1 ACRES (INCREASE)

TIMING OF BMP INSTALLATION

THE EROSION AND SEDIMENTATION CONTROL BMPs SHALL BE INSTALLED PRIOR TO ANY CONSTRUCTION ACTIVITY TO MINIMIZE EROSION FROM DISTURBED SURFACES AND CAPTURE SEDIMENT ON SITE, AND SHALL MEET THE NPDES PERMIT PART IV CONSTRUCTION ACTIVITY REQUIREMENTS.

1. TEMPORARY PERIMETER CONTROL BMPs WILL BE INSTALLED BEFORE ANY UP GRADIENT SOIL DISTURBANCES OCCUR.
2. PERMANENT AND TEMPORARY SEDIMENT TRAPS AND BASINS (IF APPLICABLE) WILL BE CONSTRUCTED BEFORE ANY SITE DISTURBANCES ARE PERMITTED.
3. DITCHES/ WET SWALES SHALL BE EXCAVATED TO GRADING GRADE AND PROTECTED WITH BALE CHECKS AND SILT FENCE UNTIL ROAD AND UTILITY CONSTRUCTION HAS BEEN STABILIZED. FINAL DITCH GRADES AND FILTER MEDIUM SHALL BE PLACED AFTER TURF HAS BEEN ESTABLISHED.
4. TOPSOIL, SEED, EROSION CONTROL BLANKET AND NECESSARY ADDITIONAL TEMPORARY EROSION CONTROL BMPs (IF APPLICABLE) SHALL BE PLACED WITHIN 7 DAYS OF COMPLETION OF ANY EMBANKMENT.
5. PLACEMENT OF RIPRAP SHALL BE COMPLETED WITHIN 24 HOURS OF CULVERT PLACEMENT, AND DONE IN ONE CONTINUOUS OPERATION.
6. DISTURBED AREAS IN WHICH CONSTRUCTION ACTIVITIES HAVE CEASED OR WILL BE SUSPENDED FOR 7 DAYS OR MORE SHALL BE STABILIZED WITH TEMPORARY OR PERMANENT BMPs FOR EROSION.

CONTACTS

THE SWPPP ENGINEER IS:
JEFF GOETZMAN, P.E.
TKDA -
11 E. SUPERIOR ST. SUITE #420
DULUTH, MN 55802
218.491.7385
jeff.goetzman@tkda.com


PROJECT SUPERVISOR IS: (TBD)

NAME

ADDRESS

PHONE

EMAIL

| | | | | | | | | | | | | |
|-----|------|----|--------------------------|--|--|---|--|-----------------------|-----------|-------|---------------------------------|-----------------------|
| | | | DESIGNED WD | DRAWN WD | 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  JEFFREY S. GOETZMAN |  | 11 E. Superior St. Suite 420 Duluth, MN. 55802 218.724.8578 tkda.com | CLYDE CONNECTOR TRAIL | | SWPPP | PROJECT NO. 16346.000 | |
| | | | CHECKED JG | DATE <u>AUGUST 4, 2017</u> LIC. NO. <u>26422</u> | | | | DULUTH | MINNESOTA | | RECORD NO. | SHEET NO. 6 |
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STORM WATER POLLUTION PREVENTION PLAN

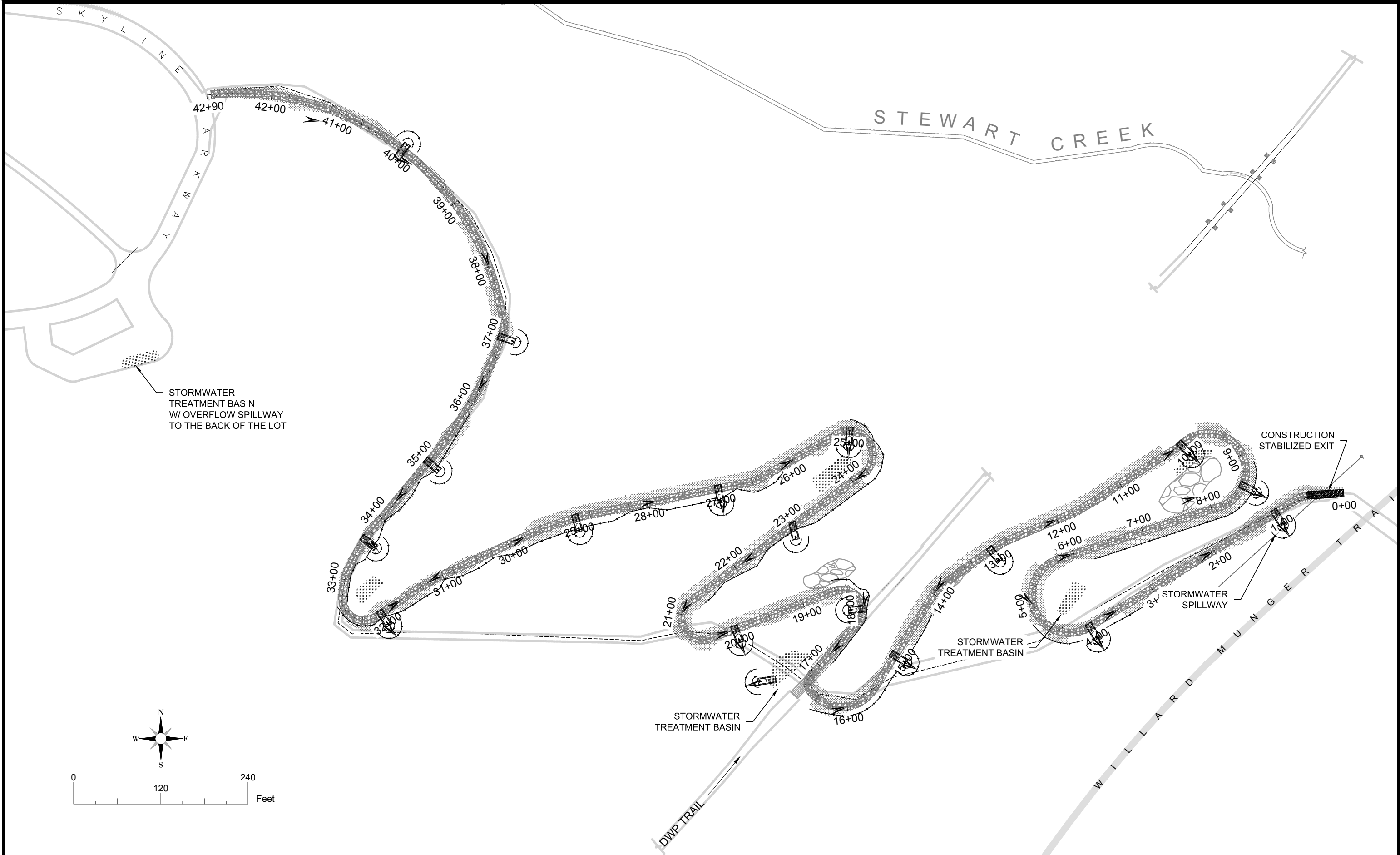
1. The current City of Duluth Construction Standards, shall apply.
Contractor will be permittee for the MPCA NPDES stormwater construction permit for this project - Contractors signature on permit is required.
Submit Initial Erosion Control (EC) schedule at or before PreCon.
Submit EC schedule alterations/adjustments weekly thereafter for Engineers approval.
2. The Contractor is responsible for EC Quality Control on this project. (MnDOT 1717.2 B)
Contractor shall phase/sequence the project to minimize exposure to erosion. Contractor shall place or otherwise construct erosion control and sediment containment devices to minimize the runoff, tracking and sediment loss from disturbed areas of the project site.
3. Sediment and erosion control devices shall be functional before site is disturbed.
4. Total disturbed area is 2.6 acres, beginning impervious area is 0.9 acres, and new impervious area is 1.0 acres.
5. Receiving water is Stewart Creek.
6. Disturbed slopes not actively worked shall be protected from soil erosion with temporary or permanent cover within permit requirements but in no case greater than 7 days of being worked.
Use erosion control blanket with soil staples, or engineer approved equal.
7. At minimum, the following controls will be implemented at the construction site:
 - * Sediment control logs shall be used in conjunction with other erosion BMPs.
 - * Rock ditch checks, or approved equal, are to be used to reduce ditch velocities and reduce erosion.
 - * Storm inlets and outlet area shall be protected with rip rap.
 - * Stabilized construction entrance shall be used to reduce sediment tracking.
 - * Storm inlets shall be continuously protected by rock filled socks, or specified inlet protection devices.
 - * Permanent vegetation will be established right after topsoil is re-spread.
 - * Control all site waste, debris, material storage, concrete washout, to prevent impacts to any drainageway.
 - * All exposed soil areas with a slope of 3:1 or steeper, that have a continuous positive slope to a special water must have temporary erosion protection or permanent cover within 3 days after the area is no longer actively being worked. All other slopes that have a continuous positive slope to a special water must have temporary erosion protection or permanent cover within 7 days after the area is no longer actively being worked.
8. All slopes and ditches shall be stabilized prior to opening new culverts into existing drainage ways.
9. If any stockpile is to remain in place for more than 3 days, sediment and erosion control devices shall be used.
10. Water pumped or otherwise discharged from the site during construction dewatering shall be directed through effective filtering device(s), and discharged to an energy dissipating device to eliminate erosion at the outlet.
11. Site dust generation must be controlled by application of water by spray trucks or similarly effective means of dust control.
12. The contractor shall take all possible precautions to prevent appreciable soil tracking onto roadways. Where sediment has been tracked-out from the site onto the surface of off-site streets, other paved areas, and sidewalks, the deposited sediment must be removed by the end of the same work day in which the trackout occurs or by the end of the next work day if track-out occurs on a non-work day. The tracked sediment must be removed by sweeping, shoveling, vacuuming, or by using other similarly effective means of sediment removal. Hosing or sweeping tracked out sediment into any stormwater conveyance (unless it is connected to a sediment basin, sediment trap, or similarly effective control), storm drain inlet, or surface water is prohibited.
13. Stabilized construction entrance(s) shall be removed and area restored after grading is complete.
14. JAW MnDot 1717.2 B, the contractor QC program shall ensure that a competent individual shall inspect erosion and sediment control devices weekly and after each rain event. All nonfunctional devices shall be repaired/replaced/cleaned. Maintain NPDES Log of all weekly and rain event inspections - include the corrective actions that were taken and update the SWPPP to reflect the amended plan. Inspection logs and a current SWPPP shall be maintained on site and available upon request.
15. Where not otherwise specified; MnDot Sp Provision S-246; Rapid Stabilization Method 4 shall be used when quick stabilization is needed. Use Cat III erosion control blanket (ECB) [N. American Green S150 or approved equal]. Use with seed mixture 36-311 @ 33.5 lbs per acre and fertilizer 10-10-10 @ 200 lbs per acre. The fertilizer, seed, and blanket shall be placed as per Mn/DOT 2575.3. The upgrade end of each blanket strip shall be buried at least 6 inches in a vertical check slot. Staples shall be placed at seams and throughout the blanket at a maximum spacing in all directions of 2 feet.

CONSTRUCTION PRACTICES TO MINIMIZE STORM WATER CONTAMINATION

TO PREVENT STORM WATER CONTAMINATION FROM OCCURRING, THE FOLLOWING BMPS WILL BE IMPLEMENTED:

1. All areas that are rough graded must be kept in a smooth condition to allow sheet flow of storm water wherever practical and always ready for surface application of degradable or non-degradable blankets, mulch, or other protective covers.
2. A stabilized construction entrance/exit will be constructed to reduce vehicle tracking of sediments off the project right of way.
3. All non-hazardous waste materials will be collected and stored in a securely lidded metal dumpster or other approved containment method at the end of each day. Any alternative to a metal dumpster must be submitted in writing for approval by the project engineer. All trash and construction debris from the site will be deposited in the dumpster. The dumpster will be emptied as necessary to function as intended for debris collection. No construction materials will be buried on-site. The contractor's erosion control supervisor will instruct all personnel regarding the correct procedure for disposal.
4. A licensed sanitary waste management contractor will collect all sanitary waste from the portable units at a rate necessary to maintain design function.
5. All vehicles on site will be monitored for leaks and receive regular preventative maintenance to reduce the chance of leakage.
6. Fertilizers will be stored in a covered shed and partially used bags will be transferred to a sealable bin to reduce chance of spillage.
7. Petroleum products will be stored in tightly sealed containers, which are clearly labeled.
8. Spill kits will be included with all fueling sources and maintenance activities. Secondary containment measures will be installed and maintained by the contractor.
9. Any asphalt substances used on site will be applied in accordance with manufacturers recommendations.
10. All paint containers and curing compounds will be tightly sealed and stored when not required for use. Excess paint will not be discharged to the storm water system but will be properly disposed of according to manufacturer's instructions.
11. Materials and equipment necessary for spill clean up will be kept in an enclosed trailer or shed on site. Equipment will include, but not limited to, brooms, mops, dust pans, rags, gloves, absorbent (kitty litter). Oil absorbent brooms and diapers, and buckets.
12. All spills will be contained and cleaned up immediately upon discovery. Spills large enough to reach the stormwater conveyance system will be reported to the Minnesota duty officer at 1.800.422.0798.
13. Concrete trucks will not be allowed to wash out or discharge surplus concrete or drum wash water on the site. Unless done in an engineered containment system. The engineered system must include site drawings for the project file and written assurance that the system will work as designed and leave no discharge of concrete or concrete residue potential to waters of the state during a minimum of a 100 year storm event.
14. Form release oil used for concrete work must be applied over a pallet containing absorbent to collect excess liquid. The absorbent material will be replaced and properly disposed of when saturated.
15. Discharges from basin dewatering operations that are turbid or sediment laden shall be discharged to temporary sediment basins constructed on the site to provide treatment prior to discharge to a water of the state.
16. Clogged or compromised filters must be replaced. Where there is evidence of sediment accumulation adjacent to the inlet protection measure, deposited sediment shall be removed by the end of the same work day on which it is found or by the end of the following work day if removal by the same work day is not feasible.
17. Accumulated sediment shall be removed where the depth of sediment has reached half of the working height of the sediment retaining device. Sediment shall be removed by the end of the work day on which it is found or by the end of the following work day if removal by the same work day is not feasible.

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| | | | | DESIGNED WD | DRAWN WD | <div>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</div> <div></div> <div>JEFFREY S. GOETZMAN</div> <div>DATE <u>AUGUST 4, 2017</u> LIC. NO. <u>26422</u></div> | <div></div> <div>11 E. Superior St. Suite 420 Duluth, MN. 55802 218.724.8578 tkda.com</div> | CLYDE CONNECTOR TRAIL | | SWPPP | PROJECT NO. 16346.000 | | |
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Plot Date: 08/11/2017
Drawing Name: K:\A\H\H\H\City\16346\000004_Production\01_CAD\01_Xrefs\Clyde Connector_Proposed_Base.dwg
Xrefs: Clyde Connector_Base.dwg

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JEFFREY S. GOETZMAN
DATE AUGUST 4, 2017 LIC. NO. 26422

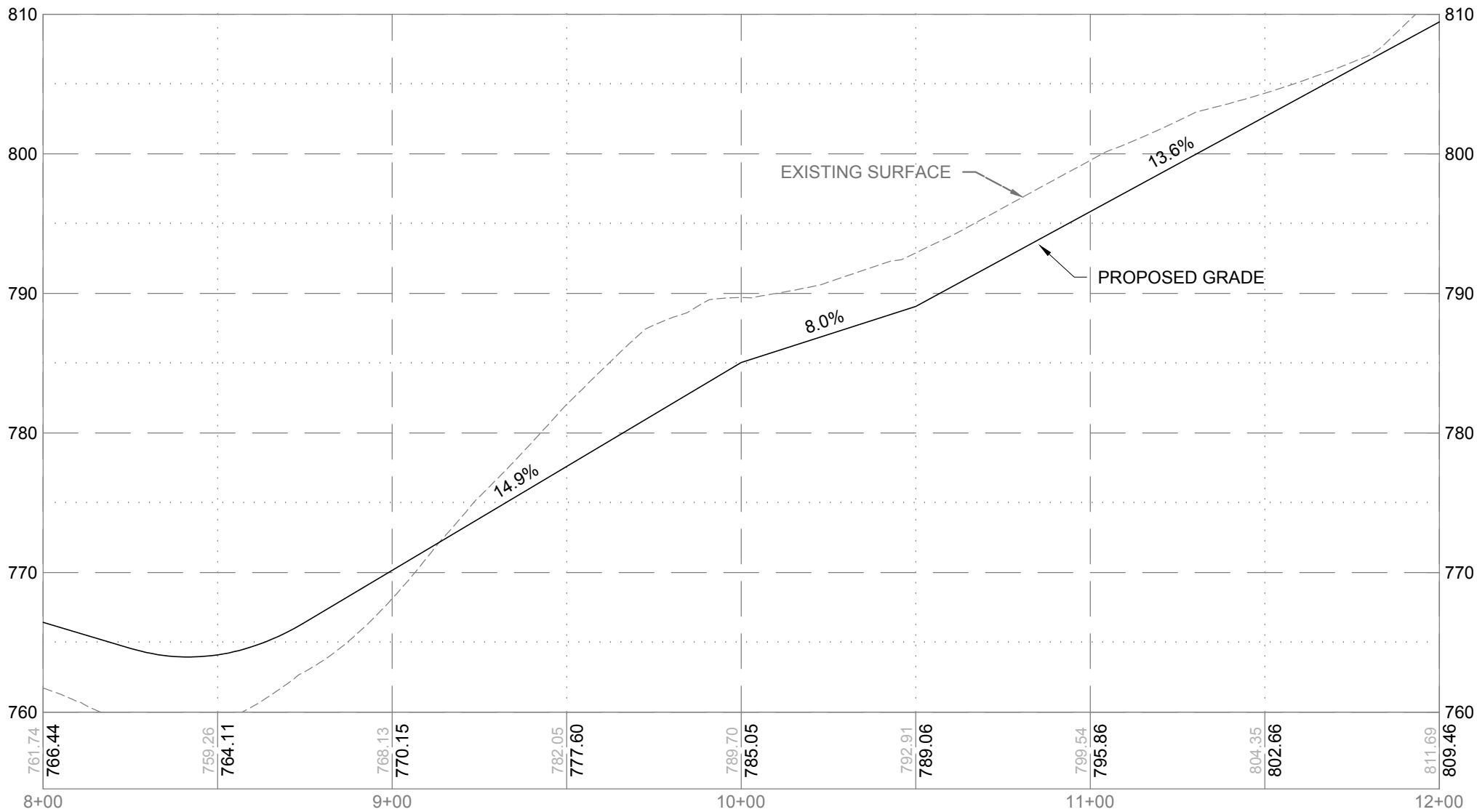


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| CLYDE CONNECTOR TRAIL | |
| DULUTH | MINNESOTA |

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| STORMWATER CONTROLS | |
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FIELD BOOK: FIELDBOOK
Plot Date: 08/11/2017
Drawing Name: KdaDuluth_City163460004_Production01_CAD102_SheetsClyde Connector Trail Plan & Profile.dwg
User: Clyde Connector_Proposed_Lines_Clyde Connector_Layout_Base

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| CLYDE CONNECTOR TRAIL | |
| DULUTH | MINNESOTA |


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FIELD BOOK: FIELDBOOK
Plot Date: 08/11/2017
Drawing Name: K:\d\du\du\City\1634600004_Productions\01_CAD\02_Sheets\Clyde Connector Trail Plan & Profile.dwg
User: Clyde Connector_Proposed_Last Clyde Connector_Existing_Base

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DATE AUGUST 4, 2017 LIC. NO. 26422

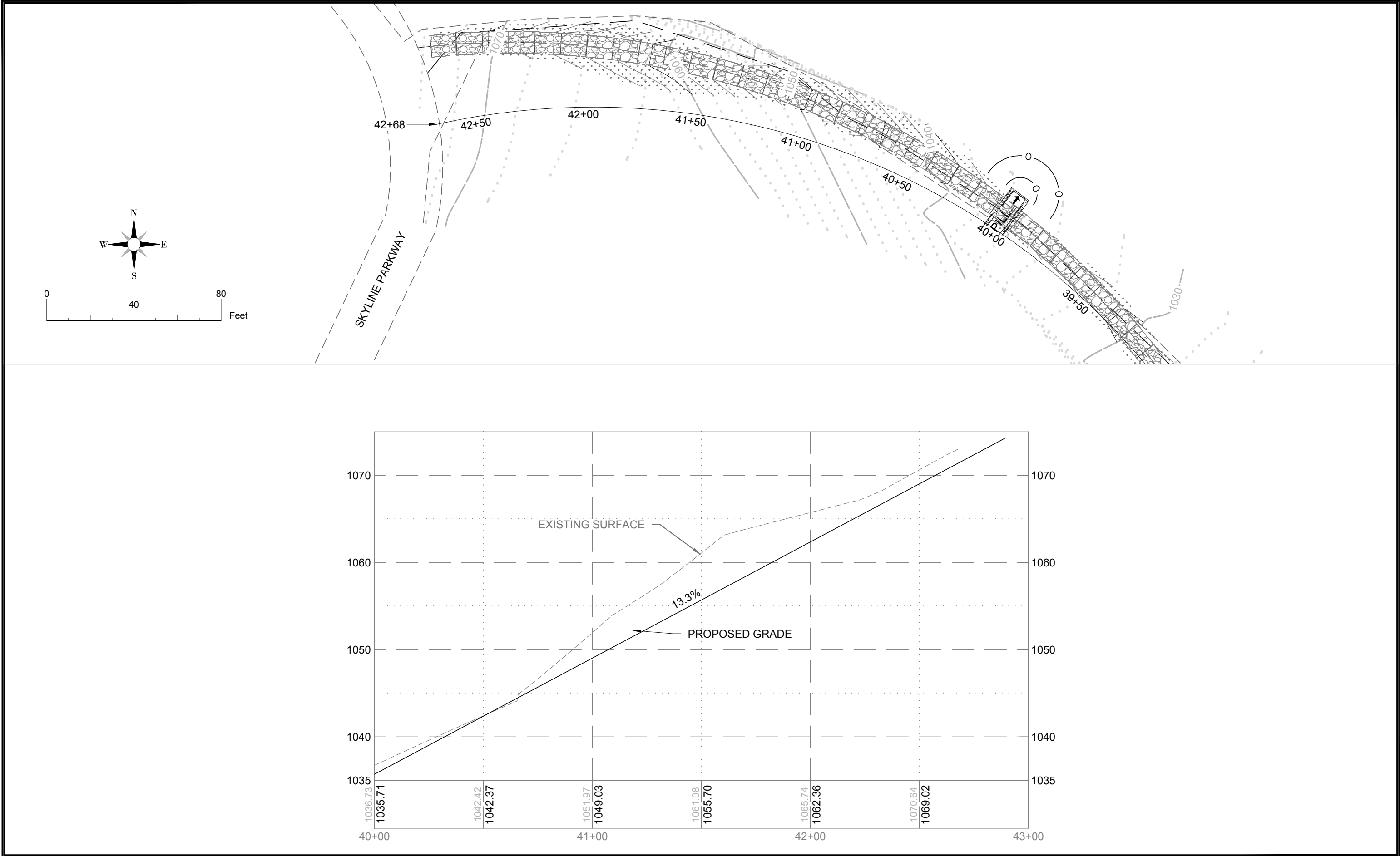


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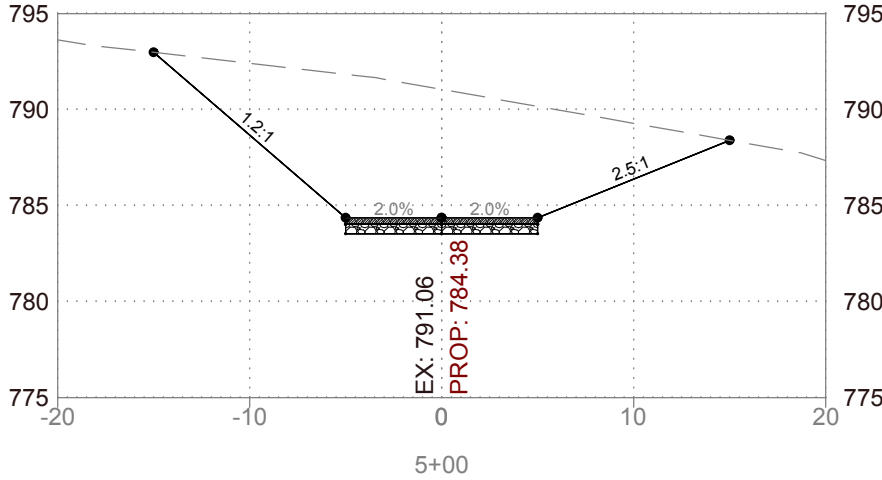
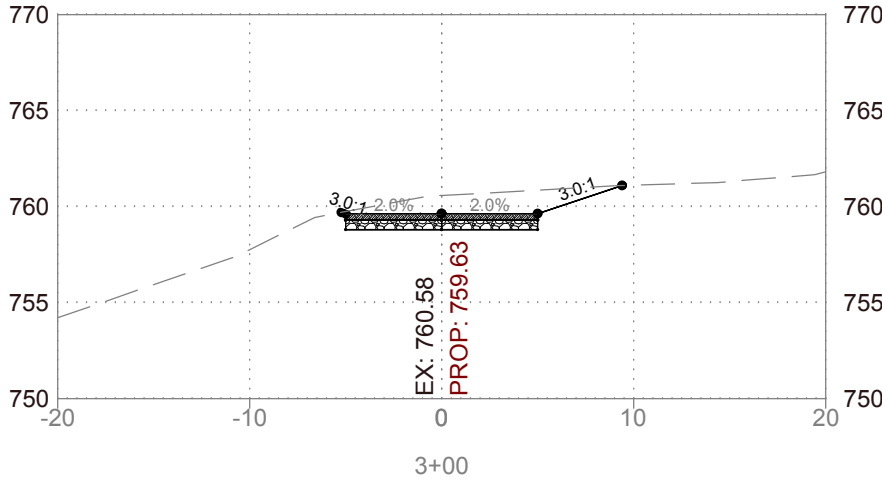
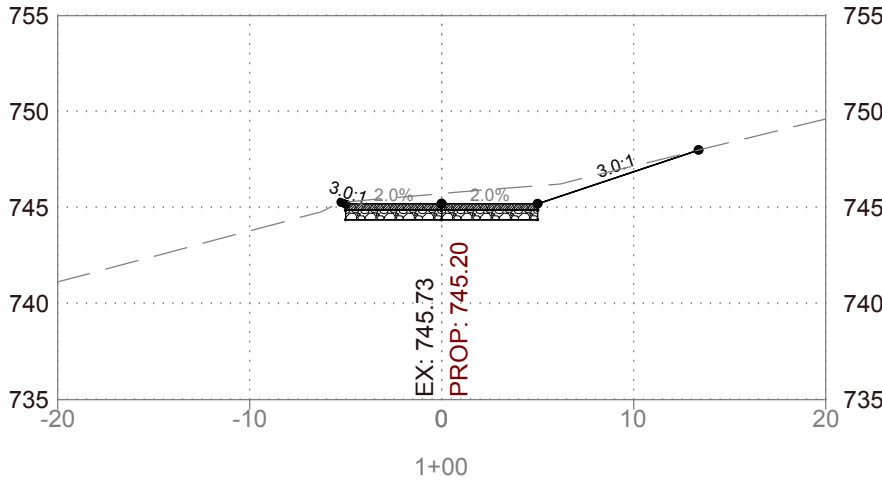
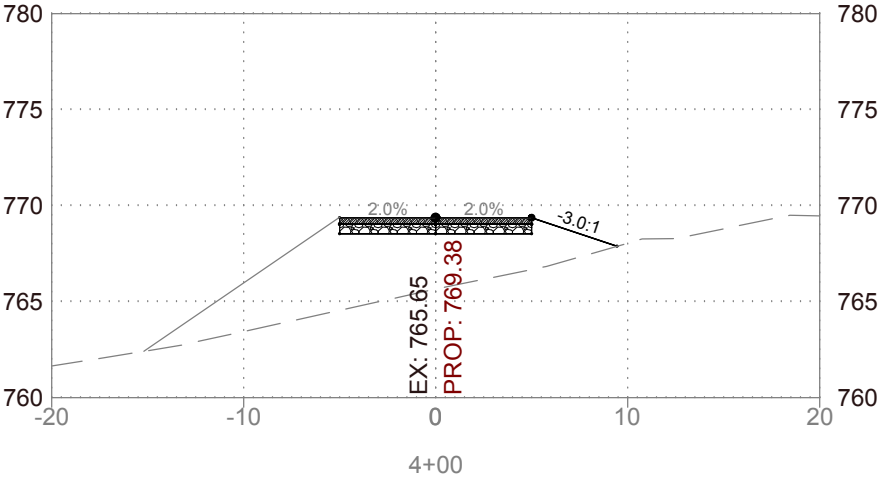
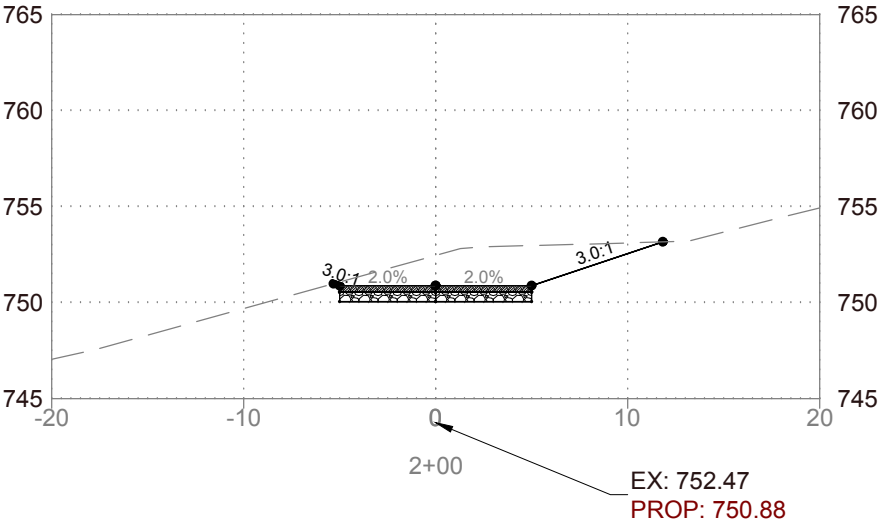
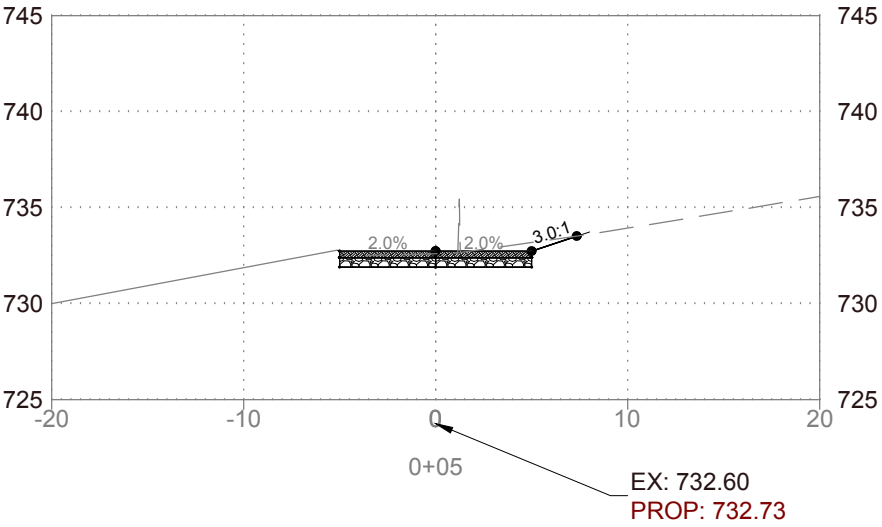
CLYDE CONNECTOR TRAIL
DULUTH MINNESOTA

40+00 - 43+00 (END)
PLAN & PROFILE

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| PROJECT NO. 16346.000 | |
| RECORD NO. | SHEET NO. 19 |



- NOTES:
SEE TRAIL TYPICAL SECTION -
SHEET 3.
1. MINIMUM TRAIL WIDTH IS 6'
WHERE NECESSARY TO
PRESERVED SPECIMEN TREES
(PINE, OAK, MAPLE, BIRCH >6"
DIA.)
 2. CROSS SLOPE IS 2% TO THE
DOWNHILL SIDE.
MAXIMUM CROSS SLOPE IS 5%.
 3. MAXIMUM COMBINED TRAIL
GRADE AND CROSS SLOPE IS
15%.
 4. TRAIL ALIGNMENT MAY BE
SHIFTED TO FIT THE EXISTING
TOPOGRAPHY AND AVOID
SPECIMEN TREES. SHIFTS > 20'
FROM PLAN WILL NEED TO BE
VERIFIED WITH A CITY OF
DULUTH REPRESENTATIVE OR
PROJECT ENGINEER PRIOR TO
CONSTRUCTION.



Plot Date: 08/11/2017
Drawing Name: K:\A\H\H\H\City\1634600004_Production\01_CAD\01_Xrefs\Clyde Connector_Proposed_Base.dwg
Xref: Clyde Connector_Existing_Base

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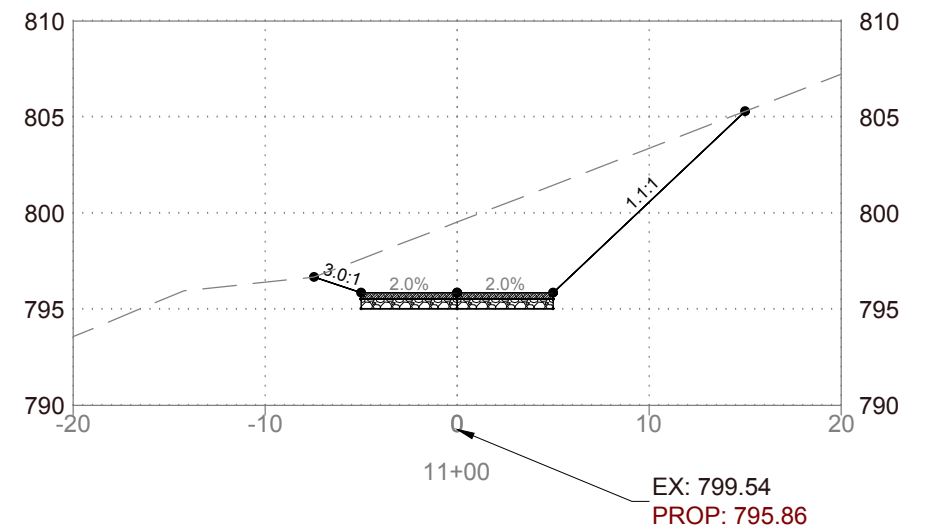
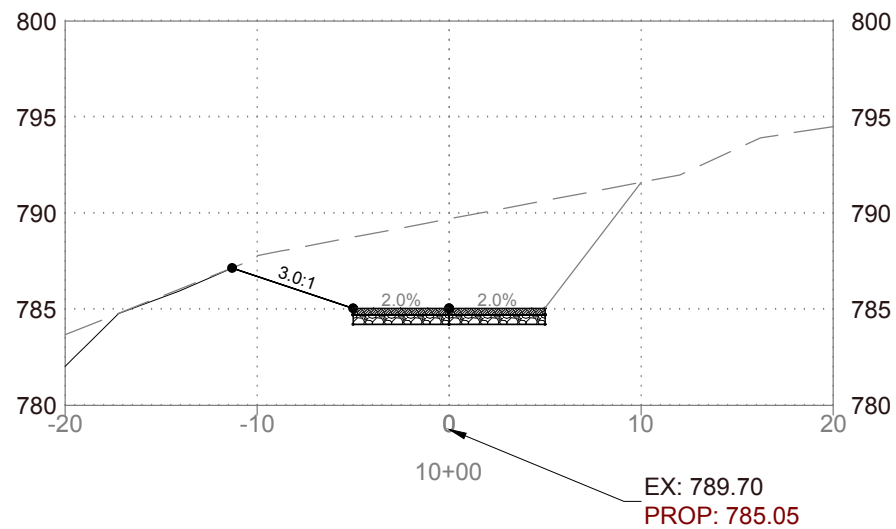
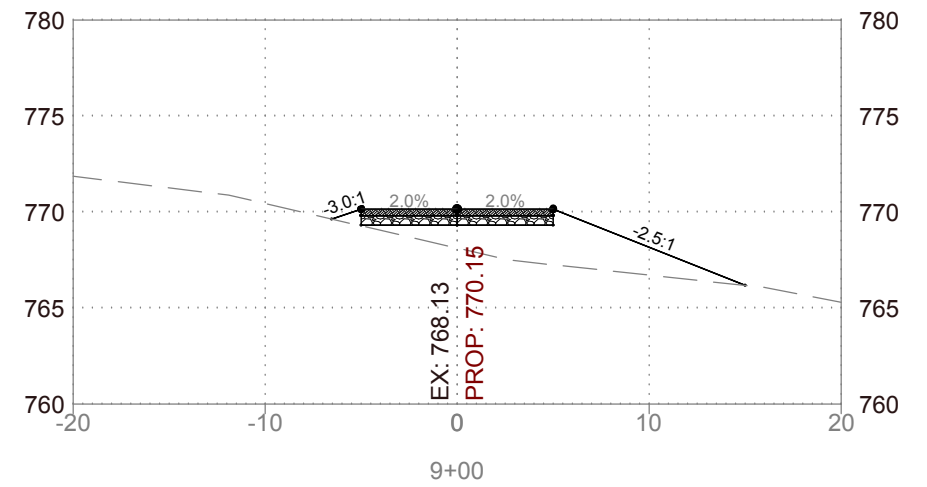
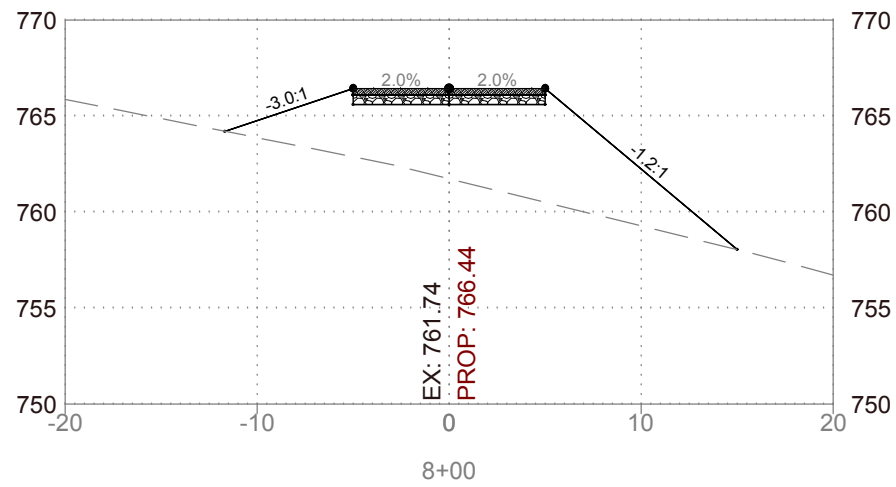
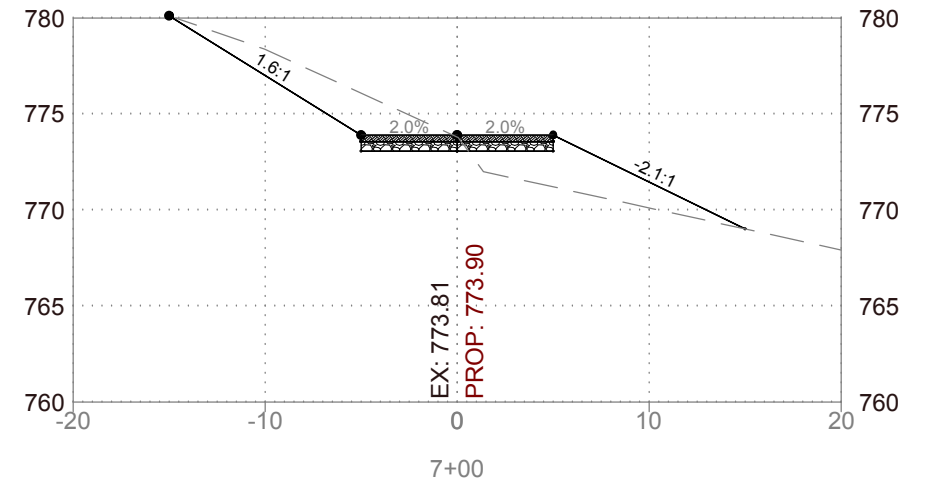
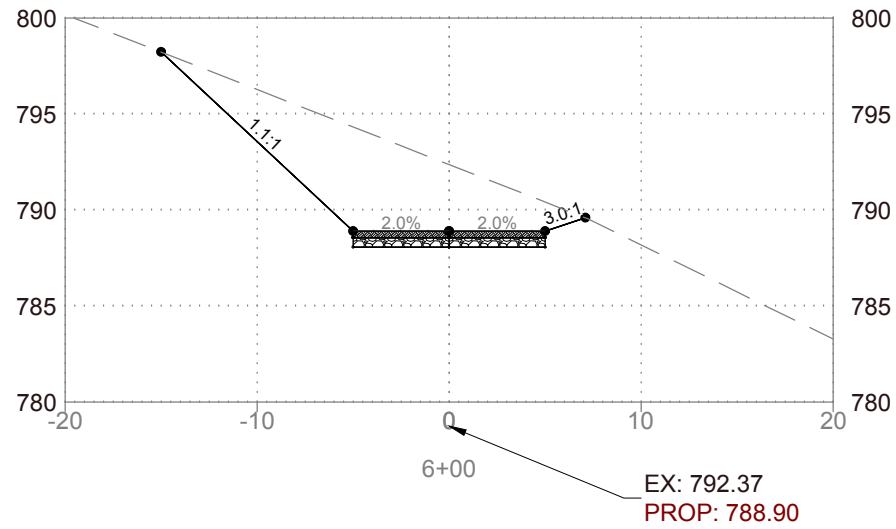


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| CLYDE CONNECTOR TRAIL | |
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| CROSS SECTIONS | |
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| PROJECT NO. 16346.000 | |
| RECORD NO. | SHEET NO. 20 |



Plot Date: 08/11/2017
Drawing Name: K:\A\010101_City\1634600004_Production\01_CAD\01_Xrefs\Clyde Connector_Proposed_Base.dwg
Xrefs: Clyde Connector_Existing_Base

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| DESIGNED | DRAWN |
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| CHECKED | |
| JG | |
| 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. | |
| DATE | LIC. NO. |



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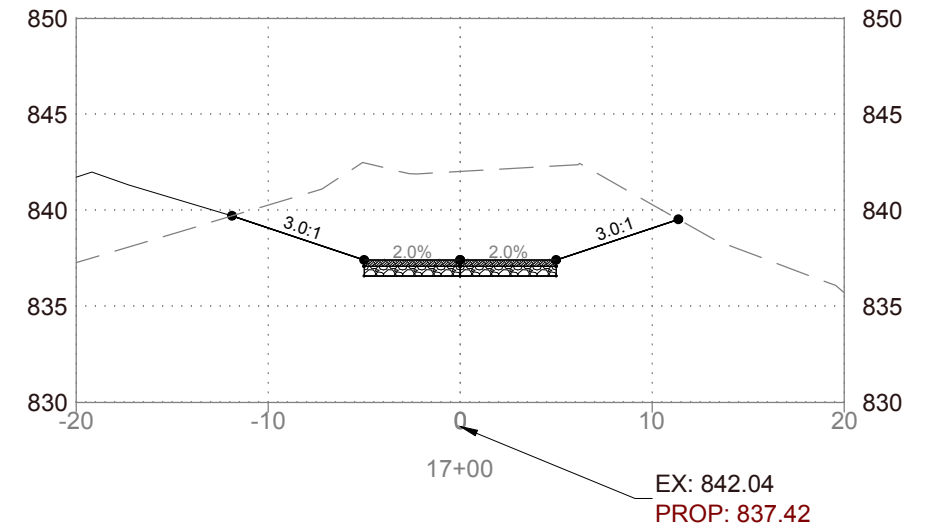
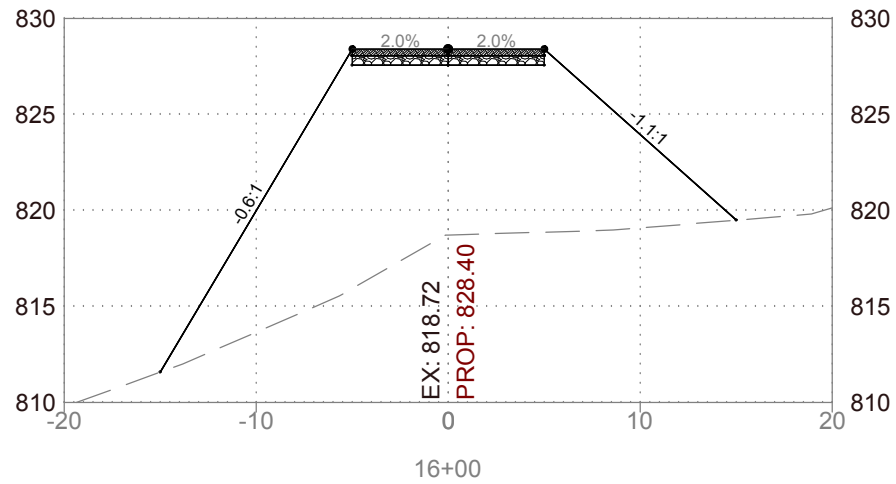
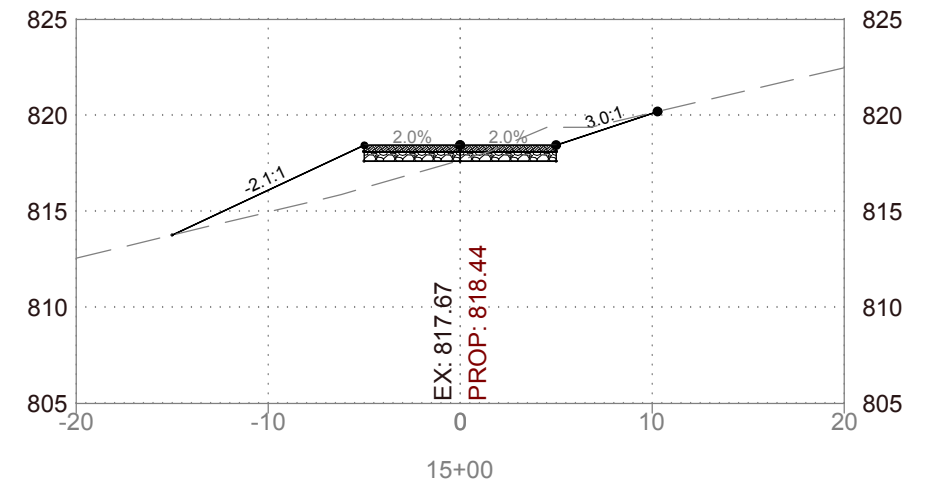
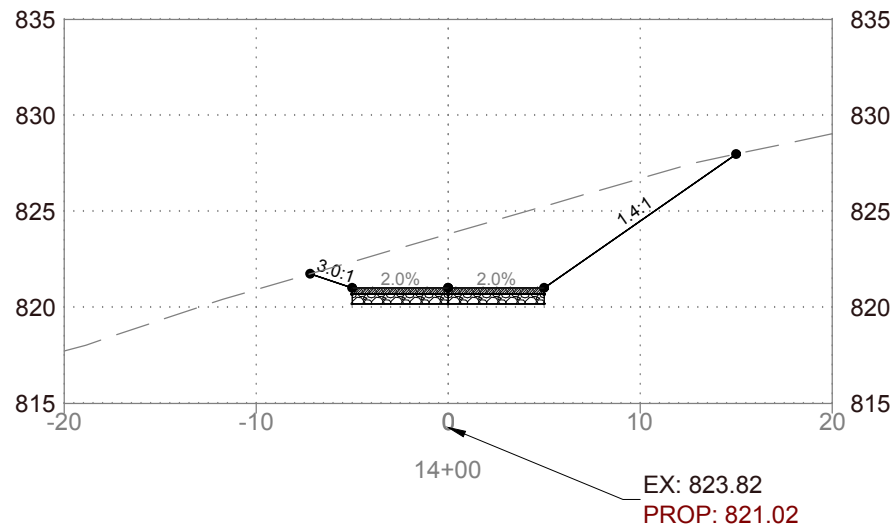
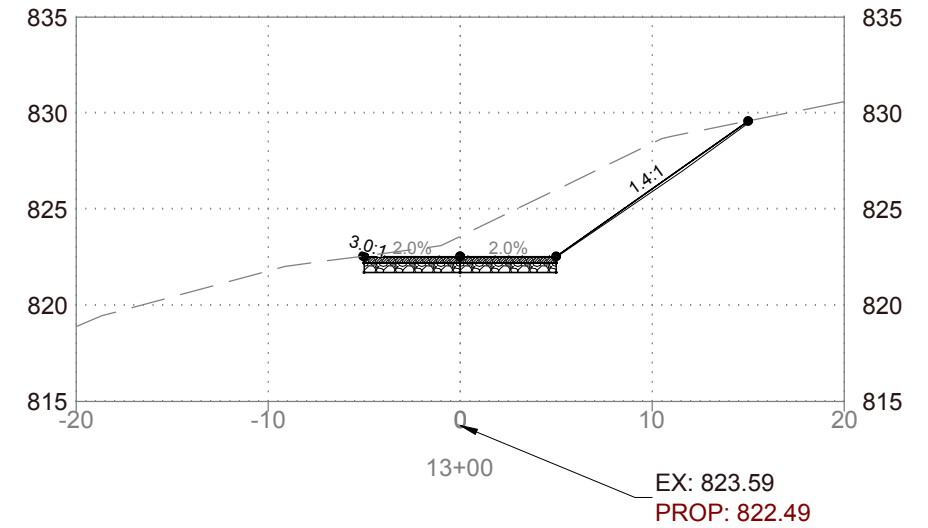
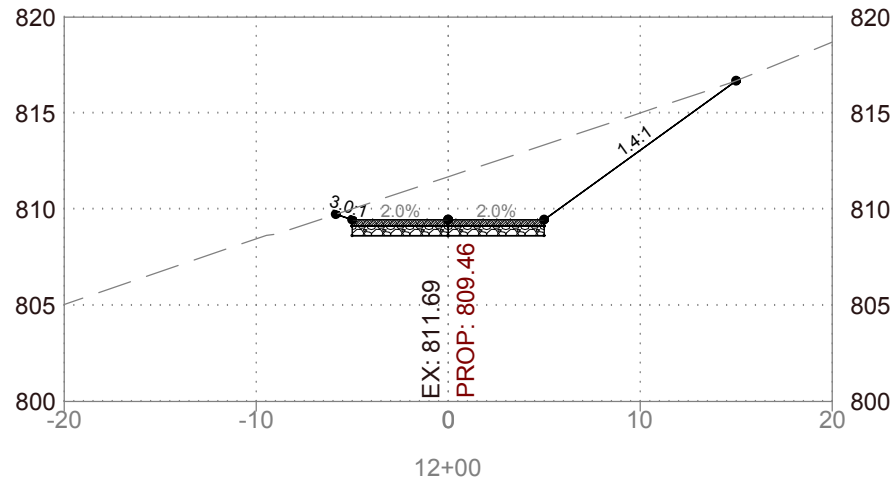
DULUTH

MINNESOTA

CROSS SECTIONS

PROJECT NO.
16346.000

RECORD NO.
SHEET NO.
21



Plot Date: 08/11/2017
Drawing Name: K:\10\101\City\16346\0004_Production\01_CAD\01_Xrefs\Clyde Connector_Proposed_Base.dwg
Xrefs: Clyde Connector_Existing_Base

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| DESIGNED | DRAWN |
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| CHECKED | |
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JEFFREY S. GOETZMAN
DATE AUGUST 4, 2017 LIC. NO. 26422



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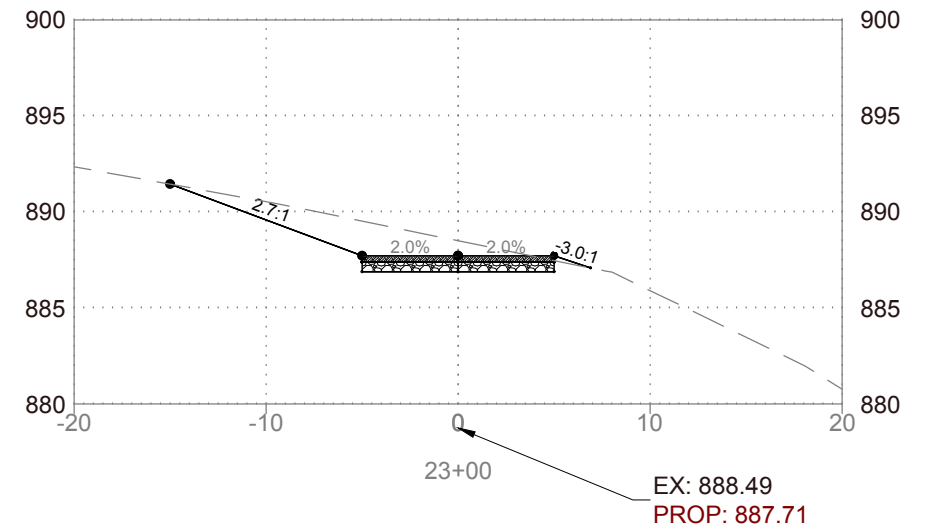
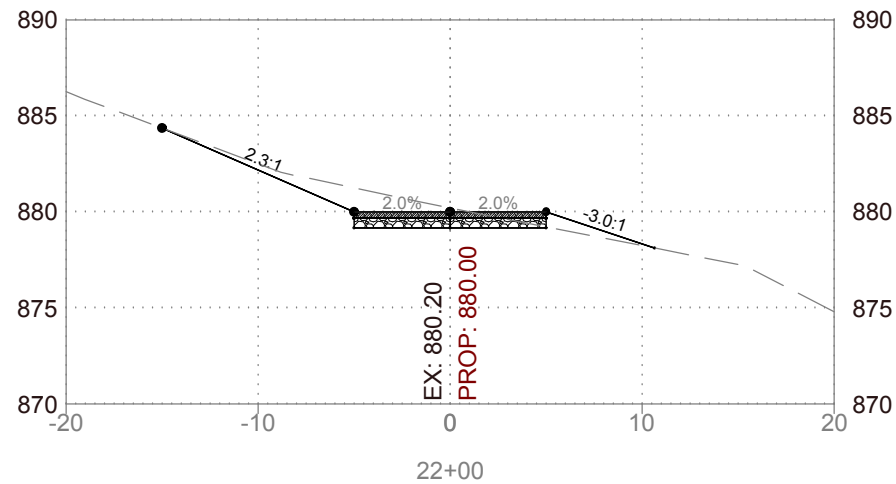
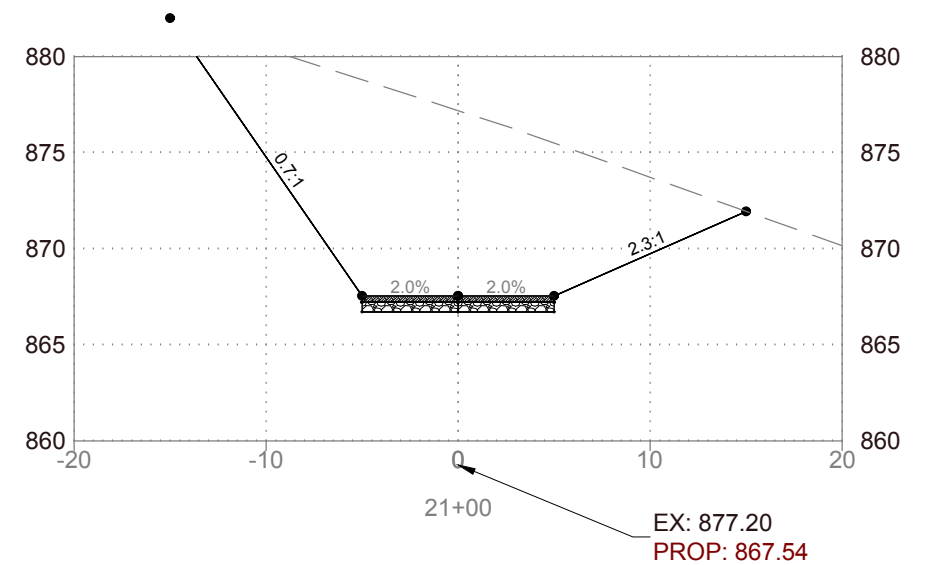
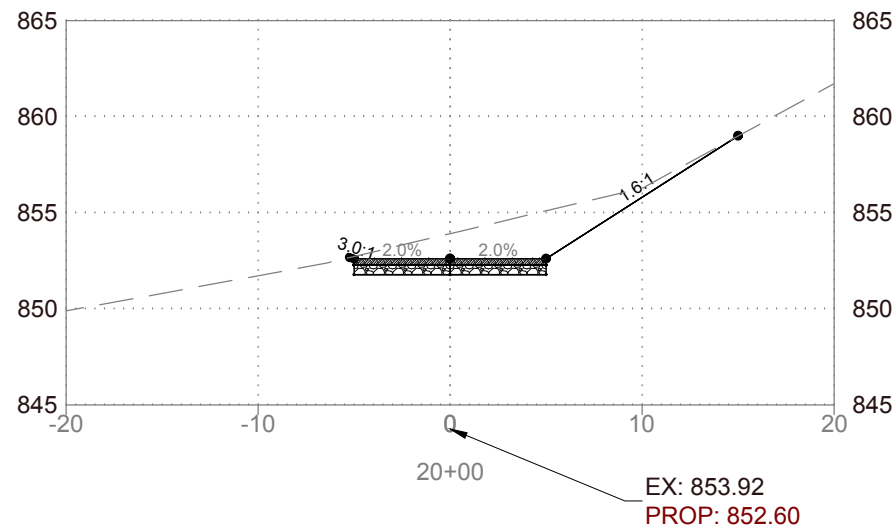
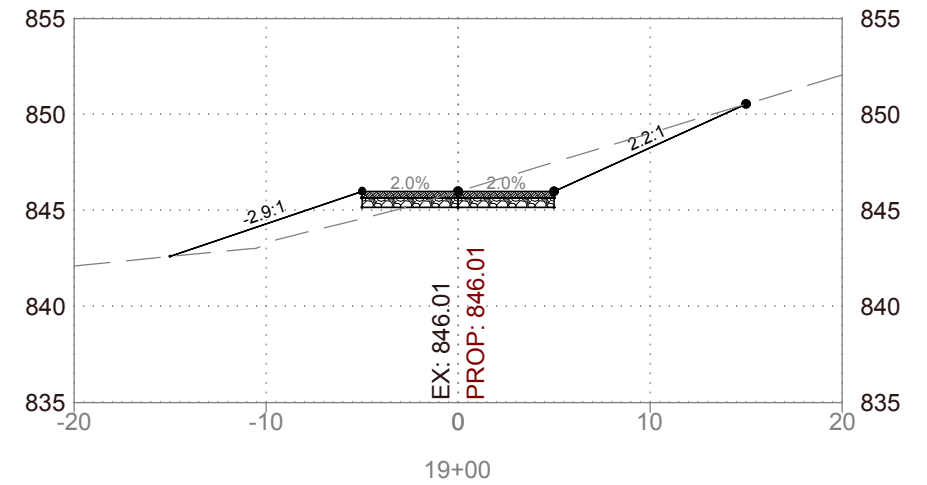
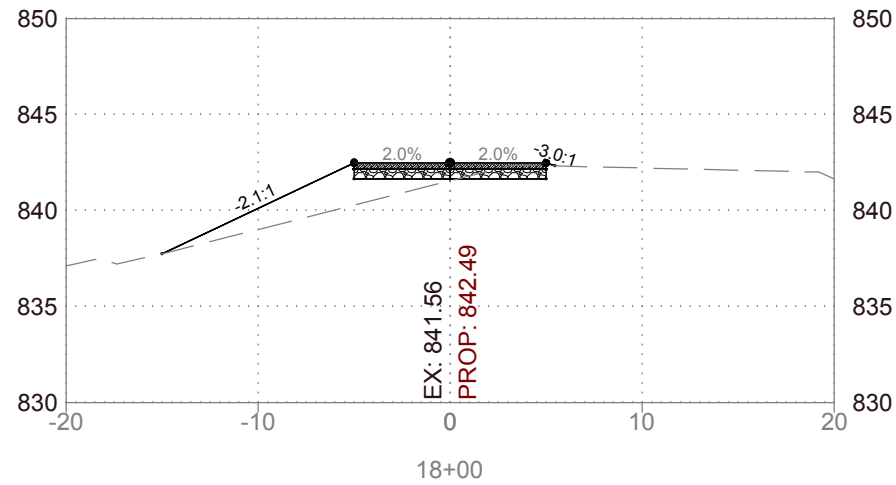
DULUTH

MINNESOTA

CROSS SECTIONS

PROJECT NO.
16346.000

RECORD NO.
SHEET NO.
21



Plot Date: 08/11/2017
Drawing Name: K:\010\0101_City\16346\00004_Production\01_CAD\01_Xref\Clyde Connector_Proposed_Base.dwg
Xref: Clyde Connector_Existing_Base

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CLYDE CONNECTOR TRAIL

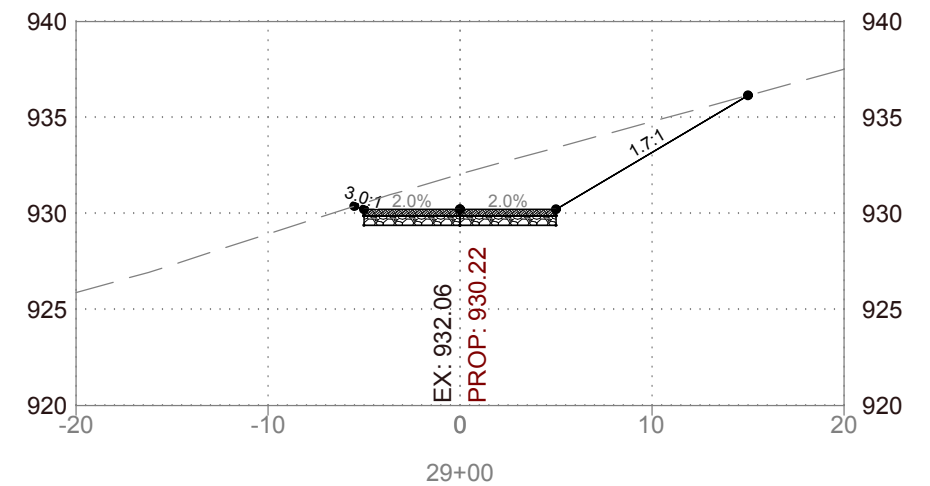
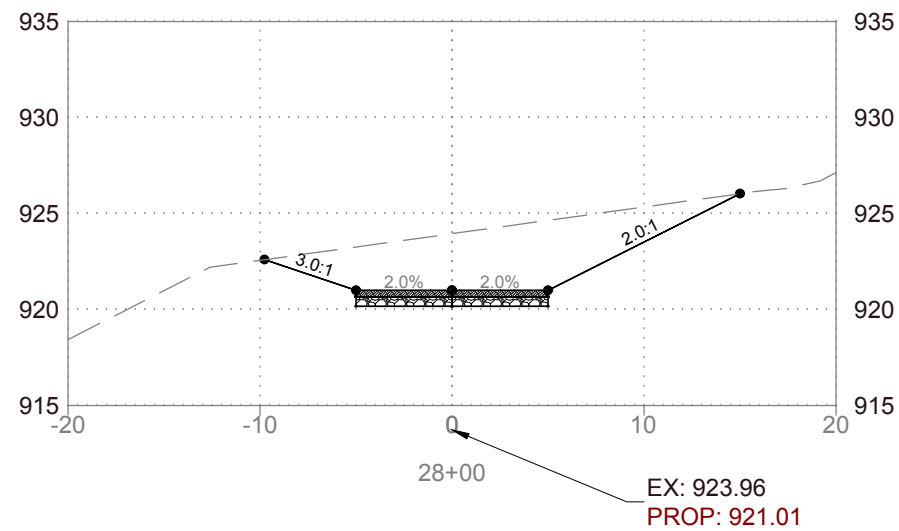
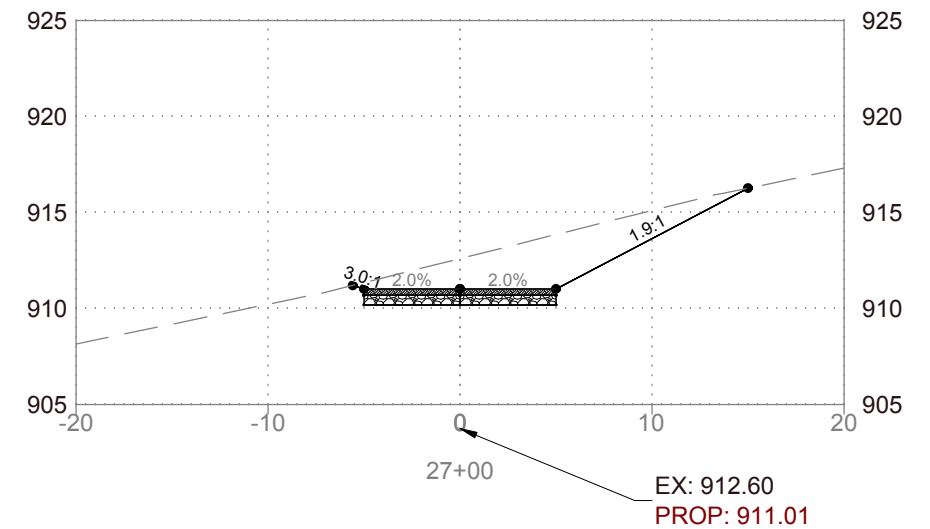
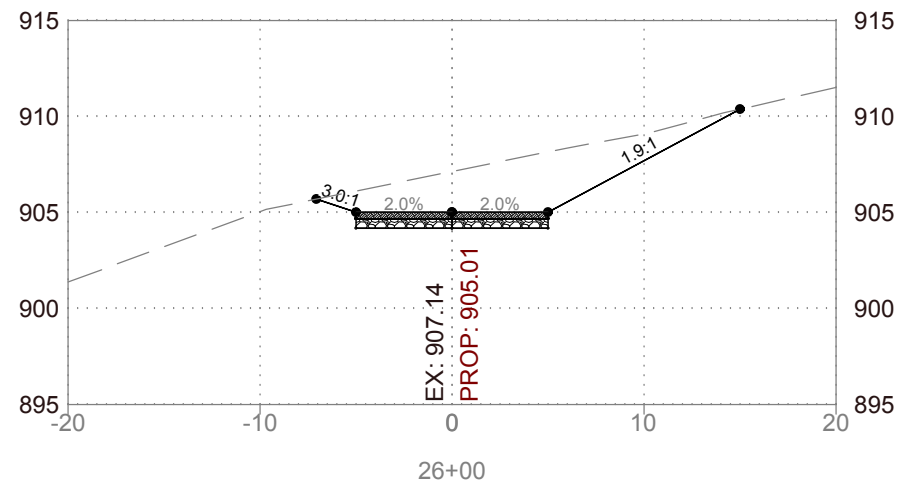
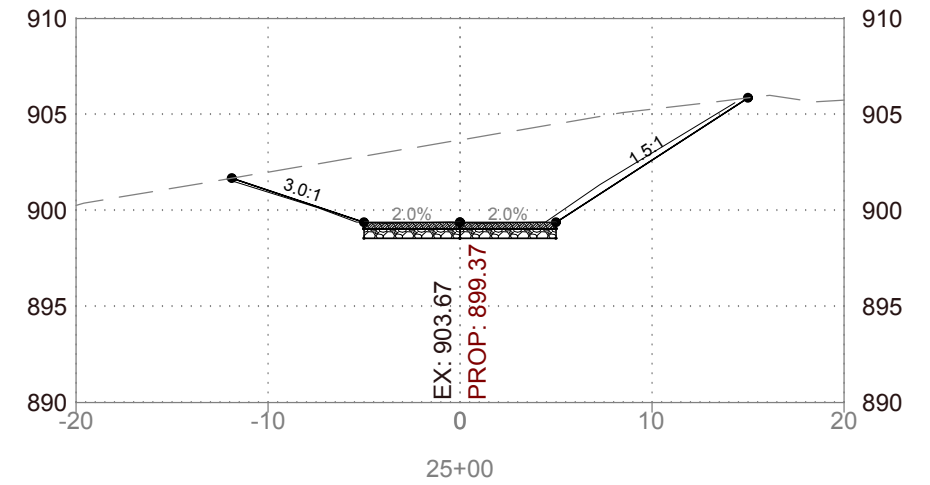
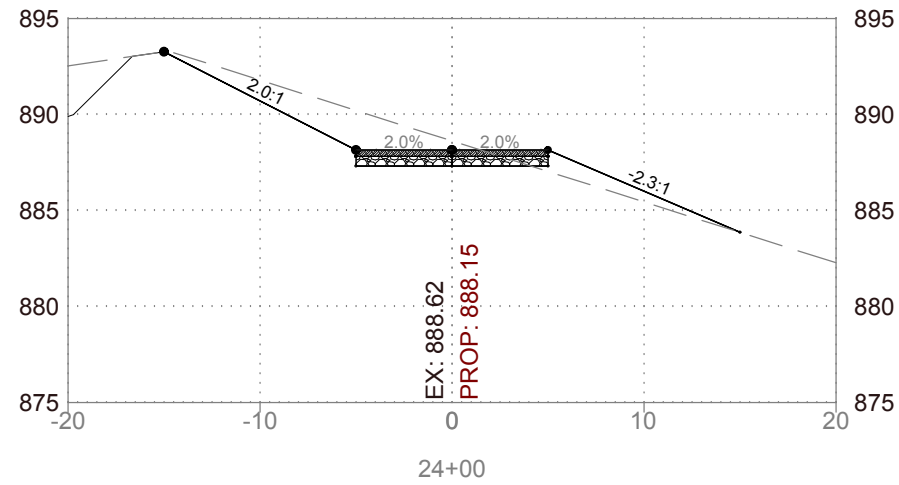
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CROSS SECTIONS

PROJECT NO.
16346.000

RECORD NO.
SHEET NO.
23



Plot Date: 08/11/2017
Drawing Name: K:\A\H\H\H\City\16346\0004_Production\01_CAD\01_Xref\Clyde Connector_Proposed_Base.dwg
Xref: Clyde Connector_Existing_Base

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CLYDE CONNECTOR TRAIL

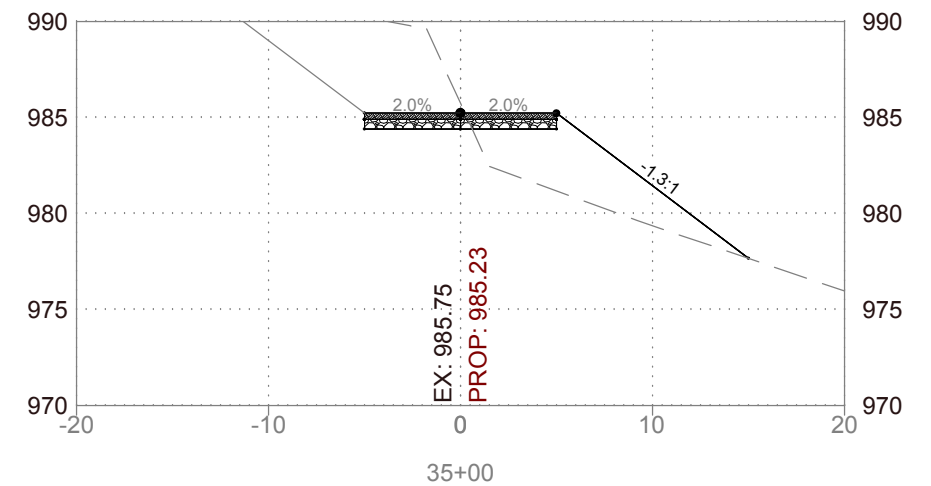
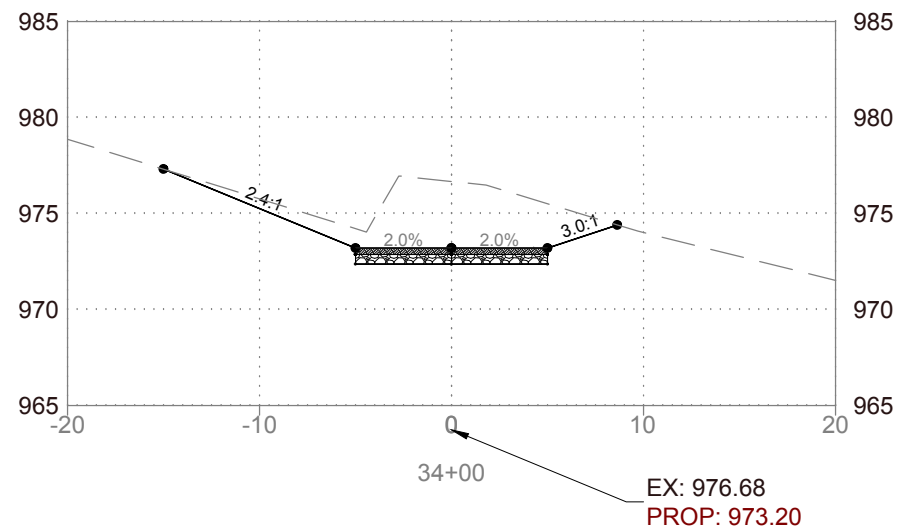
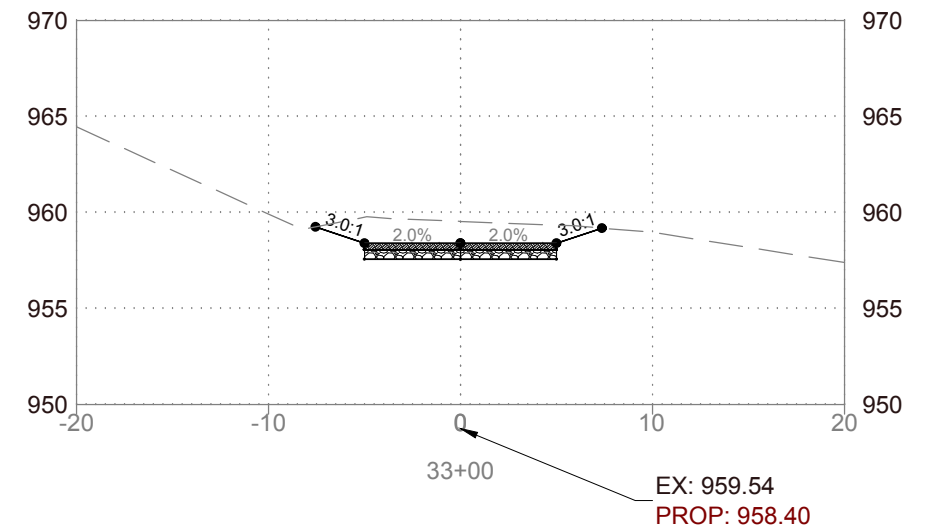
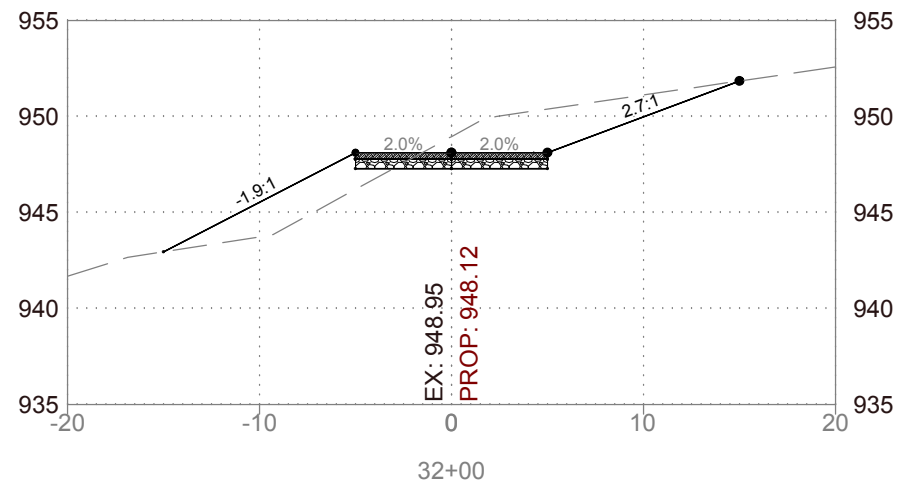
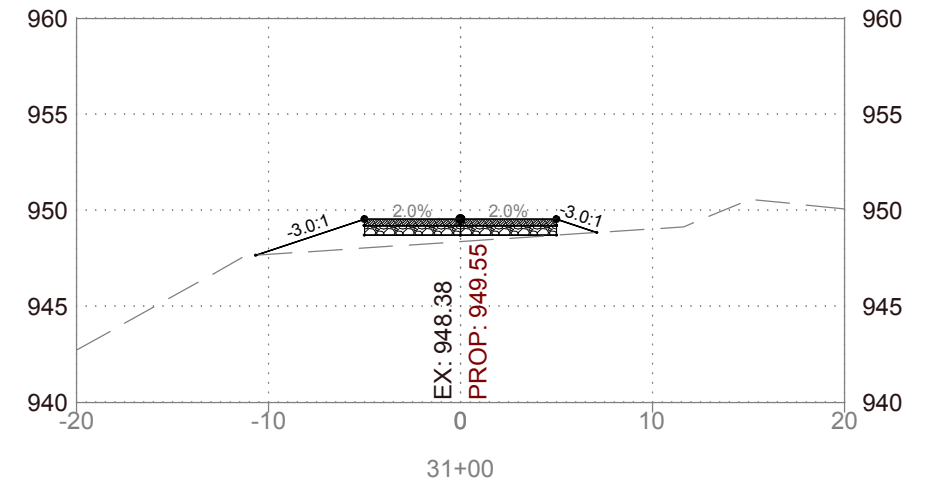
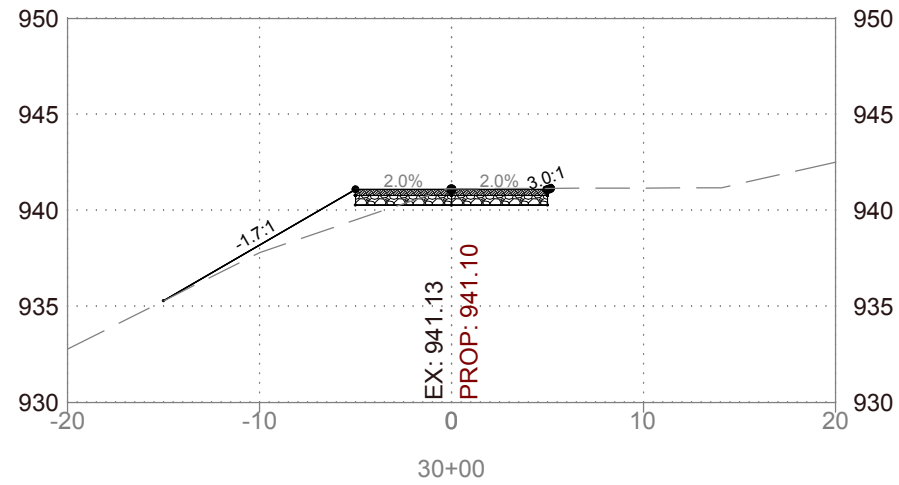
DULUTH

MINNESOTA

CROSS SECTIONS

PROJECT NO.
16346.000

RECORD NO.
SHEET NO.
24



Plot Date: 08/11/2017
Drawing Name: K:\A\010101\City\16346\00004_Production\01_CAD\01_Xrefs\Clyde Connector_Proposed_Base.dwg
Xrefs: Clyde Connector_Existing_Base

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DATE AUGUST 4, 2017 LIC. NO. 26422

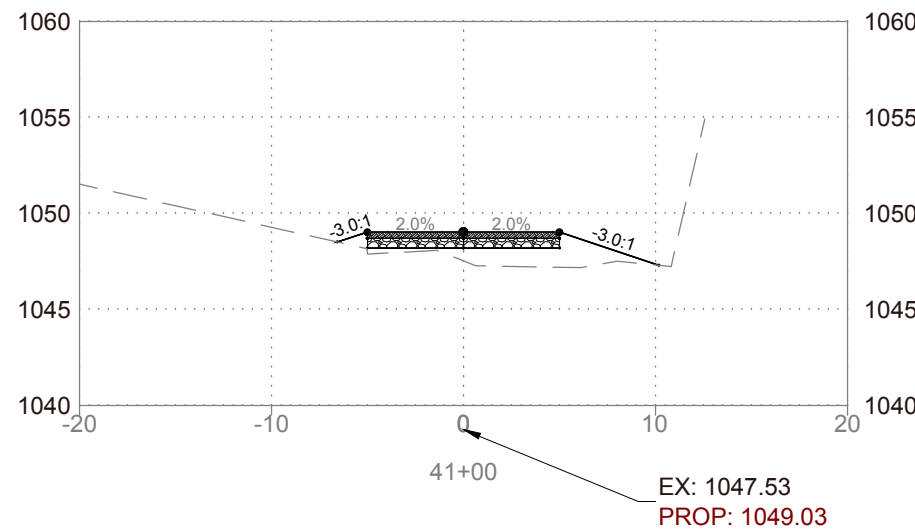
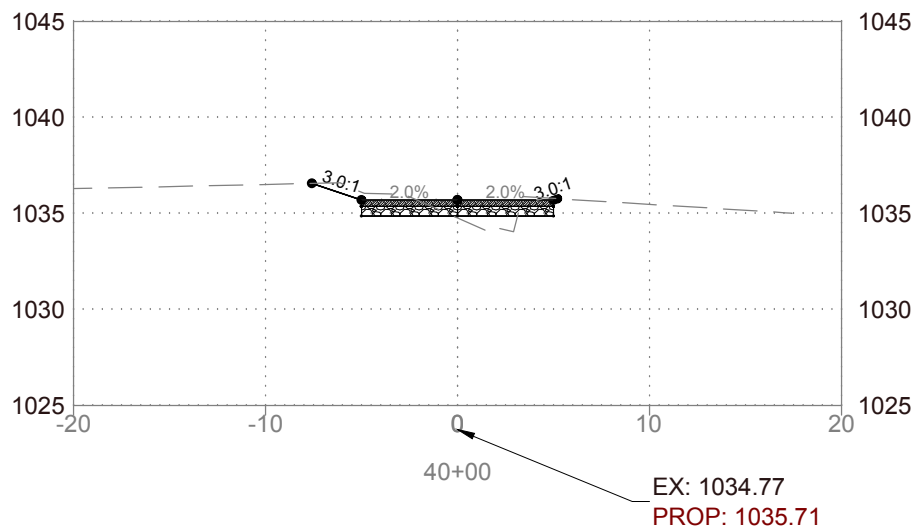
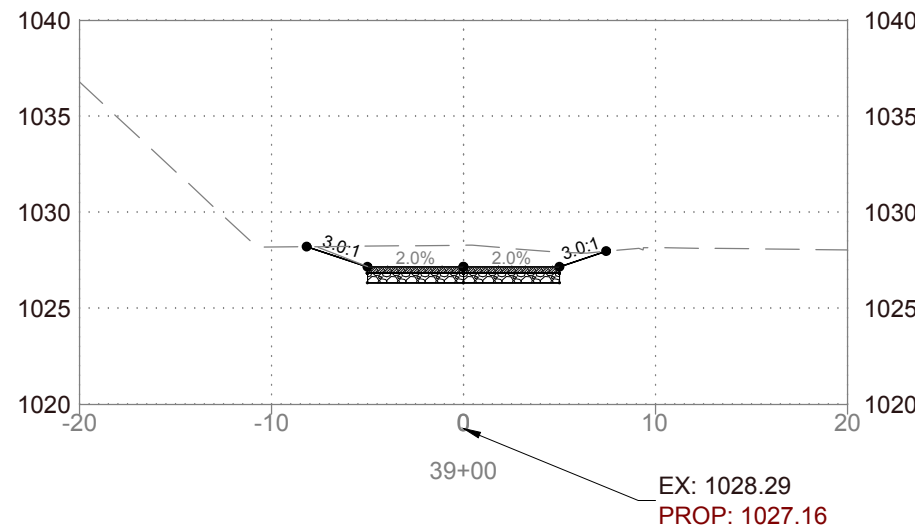
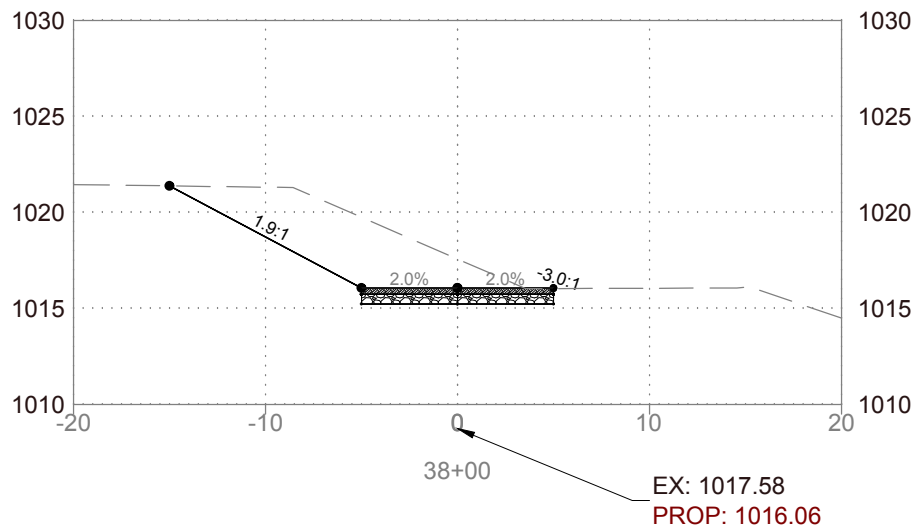
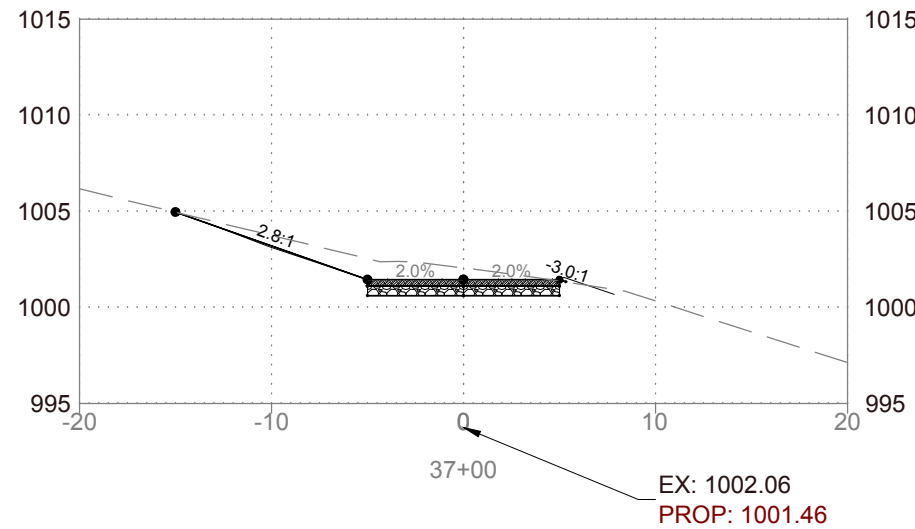
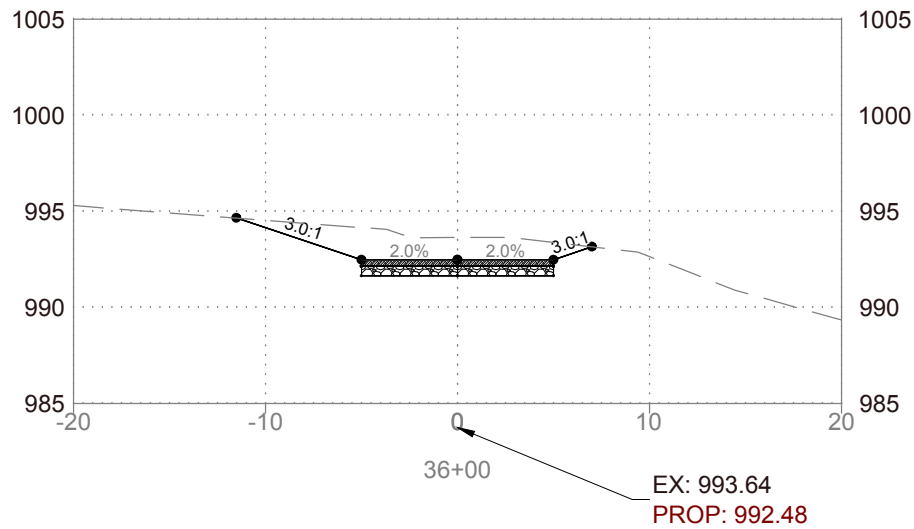


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| CLYDE CONNECTOR TRAIL | |
| DULUTH | MINNESOTA |

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| CROSS SECTIONS | |
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| PROJECT NO. 16346.000 | |
| RECORD NO. | SHEET NO. 25 |



Plot Date: 08/11/2017
Drawing Name: K:\10\101\101_City\1014000004_Production\101_CAD\101_Xref\101_City_Connector_Proposed_Base.dwg
Xref: 101_City_Connector_Base.dwg

| NO. | DATE | BY | DESCRIPTION OF REVISIONS |
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JEFFREY S. GOETZMAN
DATE AUGUST 4, 2017 LIC. NO. 26422

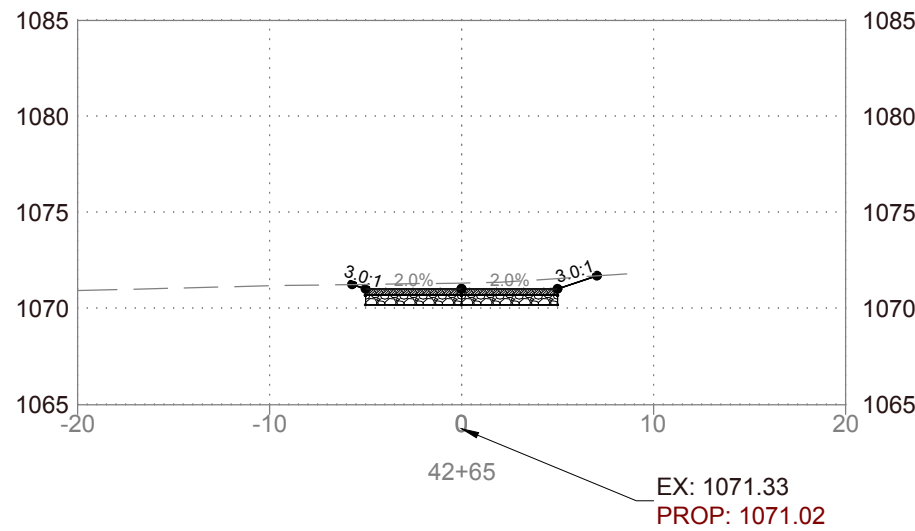
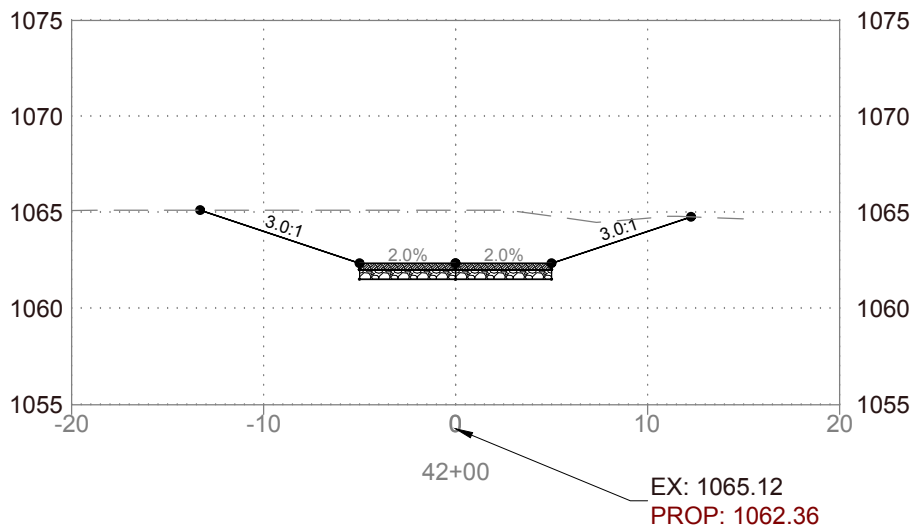


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CLYDE CONNECTOR TRAIL
DULUTH MINNESOTA

CROSS SECTIONS

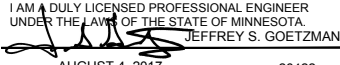
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| PROJECT NO. | 16346.000 |
| RECORD NO. | SHEET NO. |
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Plot Date: 08/11/2017
Drawing name: K:\A\H\H\H_City\16346\0004_Production\01_CAD\01_Xrefs\Clyde Connector_Proposed_Base.dwg
Xrefs: Clyde Connector_Existing_Base

| NO. | DATE | BY | DESCRIPTION OF REVISIONS |
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DATE AUGUST 4, 2017 LIC. NO. 26422



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DULUTHMINNESOTA

CROSS SECTIONS

PROJECT NO.
16346.000

RECORD NO. SHEET NO.
27

General Decision Number: MN170105 08/11/2017 MN105

Superseded General Decision Number: MN20160105

State: Minnesota

Construction Type: Heavy

County: St Louis County in Minnesota.

HEAVY CONSTRUCTION PROJECTS

Note: Under Executive Order (EO) 13658, an hourly minimum wage of \$10.20 for calendar year 2017 applies to all contracts subject to the Davis-Bacon Act for which the contract is awarded (and any solicitation was issued) on or after January 1, 2015. If this contract is covered by the EO, the contractor must pay all workers in any classification listed on this wage determination at least \$10.20 (or the applicable wage rate listed on this wage determination, if it is higher) for all hours spent performing on the contract in calendar year 2017. The EO minimum wage rate will be adjusted annually. Additional information on contractor requirements and worker protections under the EO is available at www.dol.gov/whd/govcontracts.

| Modification Number | Publication Date |
|---------------------|------------------|
| 0 | 01/06/2017 |
| 1 | 02/03/2017 |
| 2 | 03/03/2017 |
| 3 | 04/14/2017 |
| 4 | 05/19/2017 |
| 5 | 06/23/2017 |
| 6 | 07/14/2017 |
| 7 | 07/21/2017 |
| 8 | 08/11/2017 |

BOIL0647-004 01/01/2017

| | Rates | Fringes |
|-------------------------|----------|---------|
| BOILERMAKER..... | \$ 35.65 | 29.89 |
| ----- | | |
| CARP0361-020 05/01/2016 | | |

ST LOUIS COUNTY (Southern 1/3 including Cotton, Floodwood, Fond Du Lac, and Proctor)

| | Rates | Fringes |
|--------------------------------------|----------|---------|
| CARPENTER (Including Form Work)..... | \$ 34.57 | 18.16 |
| ----- | | |
| CARP0361-021 05/01/2016 | | |

ST LOUIS (Duluth)

| | Rates | Fringes |
|--------------------------------------|----------|---------|
| CARPENTER (Including Form Work)..... | \$ 34.57 | 18.16 |

CARP0606-010 05/01/2015

ST LOUIS COUNTY (Northeast 2/3 including Cook, Cusson, Ely; and Western part including Chisholm, Greaney, and Orr)

| | Rates | Fringes |
|--------------------------------------|----------|---------|
| CARPENTER (Including Form Work)..... | \$ 34.11 | 17.08 |

ELEC0242-012 06/04/2017

ST. LOUIS (South part bounded on the north by the north line of Kelsey Township extended east & west)

| | Rates | Fringes |
|------------------|----------|---------|
| ELECTRICIAN..... | \$ 35.90 | 25.64 |

ELEC0294-006 05/29/2016

ST. LOUIS (North part bounded on the south by the south line of Ellsburg Township, extended east & west)

| | Rates | Fringes |
|------------------|----------|---------|
| ELECTRICIAN..... | \$ 35.60 | 71.72% |

ENGI0049-064 05/01/2017

| | Rates | Fringes |
|---------------------------|----------|---------|
| OPERATOR: Power Equipment | | |
| Group 2..... | \$ 35.54 | 19.70 |
| Group 3..... | \$ 34.99 | 19.70 |
| Group 4..... | \$ 34.69 | 19.70 |
| Group 5..... | \$ 31.65 | 19.70 |
| Group 6..... | \$ 30.44 | 19.70 |

POWER EQUIPMENT OPERATOR CLASSIFICATIONS

GROUP 2: Crane with over 135' Boom, excluding jib; Dragline & Hydraulic Backhoe with shovel-type controls, 3 cubic yards and over; Grader/Blade finishing earthwork and bituminous.

GROUP 3: Dragline & Hydraulic Backhoe with shovel-type controls up to 3 cubic yards; Loader 5 cu yd and over;

Mechanic; Tandem Scraper; Truck Crane; Crawler Crane

GROUP 4: Bituminous Roller 8 tons & over; Crusher/Crushing Plant; Drill Rig; Elevating Grader; Loader over 1 cu yd; Grader; Pump; Scraper up to 32 cu yd; Farm Tractor with Backhoe attachment; Skid Steer Loader over 1 cu yd with Backhoe attachment; Bulldozer over 50 hp.

GROUP 5: Bituminous Roller under 8 tons; Bituminous Rubber Tire Roller; Loader up to 1 cu yd; Bulldozer 50 hp or less.

GROUP 6: Oiler; Self-Propelled Vibrating Packer 35 hp and over.

CRANE OVER 135' BOOM, EXCLUDING JIB - \$.25 PREMIUM;

CRANE OVER 200' BOOM, EXCLUDING JIB - \$.50 PREMIUM

UNDERGROUND WORK:

UNNELS, SHAFTS, ETC. - \$.25 PREMIUM

UNDER AIR PRESSURE - \$.50 PREMIUM

HAZARDOUS WASTE PROJECTS (PPE Required):

LEVEL A - \$1.25 PREMIUM

LEVEL B - \$.90 PREMIUM

LEVEL C - \$.60 PREMIUM

IRON0512-028 06/05/2016

| | Rates | Fringes |
|--|----------|---------|
| IRONWORKER, STRUCTURAL AND REINFORCING..... | \$ 31.54 | 24.90 |

* LABO1091-006 05/01/2017

ST LOUIS (South of T. 55 N)

| | Rates | Fringes |
|----------------------------|----------|---------|
| LABORERS | | |
| (1) Common or General..... | \$ 29.93 | 18.26 |
| (2) Mason Tender | | |
| Cement/Concrete..... | \$ 30.13 | 18.26 |
| (6) Pipe Layer..... | \$ 32.43 | 18.26 |

* LABO1091-007 05/01/2017

SOUTHERN ST. LOUIS COUNTY

| | Rates | Fringes |
|---|----------|---------|
| LABORER | | |
| Common or General (Natural Gas Pipeline only)..... | \$ 29.93 | 18.26 |

* LABO1097-002 05/01/2017

NORTHERN ST. LOUIS COUNTY

| | Rates | Fringes |
|--|----------|---------|
| LABORER | | |
| Common or General (Natural Gas Pipeline only)..... | \$ 27.87 | 20.32 |
| ----- | | |
| * LABO1097-005 05/01/2017 | | |

ST LOUIS (North of T. 55 N)

| | Rates | Fringes |
|----------------------------|----------|---------|
| LABORERS | | |
| (1) Common or General..... | \$ 27.87 | 20.32 |
| (2) Mason Tender | | |
| Cement/Concrete..... | \$ 28.07 | 20.32 |
| (6) Pipe Layer..... | \$ 30.37 | 20.32 |
| ----- | | |
| PLAS0633-036 05/01/2017 | | |

ST. LOUIS COUNTY (North of T 55N)

| | Rates | Fringes |
|-----------------------------------|----------|---------|
| CEMENT MASON/CONCRETE FINISHER... | \$ 33.95 | 18.13 |
| ----- | | |
| PLAS0633-039 05/01/2017 | | |

ST. LOUIS COUNTY (South of T 55N)

| | Rates | Fringes |
|-----------------------------------|----------|---------|
| CEMENT MASON/CONCRETE FINISHER... | \$ 33.95 | 18.13 |
| ----- | | |
| TEAM0160-018 05/01/2017 | | |

| | Rates | Fringes |
|--|----------|---------|
| TRUCK DRIVER (DUMP) | | |
| (1) Articulated Dump Truck.. | \$ 30.25 | 16.60 |
| (2) 3 Axles/4 Axles; 5 Axles receive \$0.30 additional per hour..... | \$ 29.70 | 16.60 |
| (3) Tandem Axles; & Single Axles..... | \$ 29.60 | 16.60 |
| ----- | | |
| SUMN2009-072 09/28/2009 | | |

| | Rates | Fringes |
|-------------------------|----------|---------|
| LABORER: Landscape..... | \$ 12.88 | 4.61 |
| ----- | | |

WELDERS - Receive rate prescribed for craft performing

operation to which welding is incidental.

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Note: Executive Order (EO) 13706, Establishing Paid Sick Leave for Federal Contractors applies to all contracts subject to the Davis-Bacon Act for which the contract is awarded (and any solicitation was issued) on or after January 1, 2017. If this contract is covered by the EO, the contractor must provide employees with 1 hour of paid sick leave for every 30 hours they work, up to 56 hours of paid sick leave each year. Employees must be permitted to use paid sick leave for their own illness, injury or other health-related needs, including preventive care; to assist a family member (or person who is like family to the employee) who is ill, injured, or has other health-related needs, including preventive care; or for reasons resulting from, or to assist a family member (or person who is like family to the employee) who is a victim of, domestic violence, sexual assault, or stalking. Additional information on contractor requirements and worker protections under the EO is available at www.dol.gov/whd/govcontracts.

Unlisted classifications needed for work not included within the scope of the classifications listed may be added after award only as provided in the labor standards contract clauses (29CFR 5.5 (a) (1) (ii)).

The body of each wage determination lists the classification and wage rates that have been found to be prevailing for the cited type(s) of construction in the area covered by the wage determination. The classifications are listed in alphabetical order of "identifiers" that indicate whether the particular rate is a union rate (current union negotiated rate for local), a survey rate (weighted average rate) or a union average rate (weighted union average rate).

Union Rate Identifiers

A four letter classification abbreviation identifier enclosed in dotted lines beginning with characters other than "SU" or "UAVG" denotes that the union classification and rate were prevailing for that classification in the survey. Example: PLUM0198-005 07/01/2014. PLUM is an abbreviation identifier of the union which prevailed in the survey for this classification, which in this example would be Plumbers. 0198 indicates the local union number or district council number where applicable, i.e., Plumbers Local 0198. The next number, 005 in the example, is an internal number used in processing the wage determination. 07/01/2014 is the effective date of the most current negotiated rate, which in this example is July 1, 2014.

Union prevailing wage rates are updated to reflect all rate

changes in the collective bargaining agreement (CBA) governing this classification and rate.

Survey Rate Identifiers

Classifications listed under the "SU" identifier indicate that no one rate prevailed for this classification in the survey and the published rate is derived by computing a weighted average rate based on all the rates reported in the survey for that classification. As this weighted average rate includes all rates reported in the survey, it may include both union and non-union rates. Example: SULA2012-007 5/13/2014. SU indicates the rates are survey rates based on a weighted average calculation of rates and are not majority rates. LA indicates the State of Louisiana. 2012 is the year of survey on which these classifications and rates are based. The next number, 007 in the example, is an internal number used in producing the wage determination. 5/13/2014 indicates the survey completion date for the classifications and rates under that identifier.

Survey wage rates are not updated and remain in effect until a new survey is conducted.

Union Average Rate Identifiers

Classification(s) listed under the UAVG identifier indicate that no single majority rate prevailed for those classifications; however, 100% of the data reported for the classifications was union data. EXAMPLE: UAVG-OH-0010 08/29/2014. UAVG indicates that the rate is a weighted union average rate. OH indicates the state. The next number, 0010 in the example, is an internal number used in producing the wage determination. 08/29/2014 indicates the survey completion date for the classifications and rates under that identifier.

A UAVG rate will be updated once a year, usually in January of each year, to reflect a weighted average of the current negotiated/CBA rate of the union locals from which the rate is based.

WAGE DETERMINATION APPEALS PROCESS

1.) Has there been an initial decision in the matter? This can be:

- * an existing published wage determination
- * a survey underlying a wage determination
- * a Wage and Hour Division letter setting forth a position on a wage determination matter
- * a conformance (additional classification and rate) ruling

On survey related matters, initial contact, including requests for summaries of surveys, should be with the Wage and Hour

Regional Office for the area in which the survey was conducted because those Regional Offices have responsibility for the Davis-Bacon survey program. If the response from this initial contact is not satisfactory, then the process described in 2.) and 3.) should be followed.

With regard to any other matter not yet ripe for the formal process described here, initial contact should be with the Branch of Construction Wage Determinations. Write to:

Branch of Construction Wage Determinations
Wage and Hour Division
U.S. Department of Labor
200 Constitution Avenue, N.W.
Washington, DC 20210

2.) If the answer to the question in 1.) is yes, then an interested party (those affected by the action) can request review and reconsideration from the Wage and Hour Administrator (See 29 CFR Part 1.8 and 29 CFR Part 7). Write to:

Wage and Hour Administrator
U.S. Department of Labor
200 Constitution Avenue, N.W.
Washington, DC 20210

The request should be accompanied by a full statement of the interested party's position and by any information (wage payment data, project description, area practice material, etc.) that the requestor considers relevant to the issue.

3.) If the decision of the Administrator is not favorable, an interested party may appeal directly to the Administrative Review Board (formerly the Wage Appeals Board). Write to:

Administrative Review Board
U.S. Department of Labor
200 Constitution Avenue, N.W.
Washington, DC 20210

4.) All decisions by the Administrative Review Board are final.

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END OF GENERAL DECISION