Addendum 1
Solicitation 20-99379
Piedmont Rec Area Green Infrastructure Improvements

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

1. Clearing is no longer included in the wetland restoration. Clearing and Grubbing has been clarified to include specific invasive species. Contractors will be expected to provide proof of a current applicators license at the time of the construction meeting.

2. Paragraph SP-6 (2105) Wetland Enhancement is replaced with the following:
   *This work will cut down existing vegetation and re-establish wetlands with native plantings. Contractor shall treat seed bearing invasive species. Contractor shall import and incorporate topsoil Organic Topsoil Borrow (MnDOT 2574.507) over the disturbed area. New topsoil to be mixed by tilling or other effective means with top 4” of existing soil. Disturbed areas to be seeded with MnDOT Seed mix 34-371 at a rate of 12.5 lbs/acre. The contract for Wetland enhancement includes maintenance of enhanced areas through three consecutive growing seasons. Contractor shall return a minimum of once per year through three consecutive growing seasons to maintain the areas of invasive species removal (awarded area, i.e. base bid or base bid and selected alternate area). Maintenance shall include removal of new invasive species and re-seeding areas that are disturbed, bare or thinly populated. Contractor time planting activities to accommodate best practices based on the growth season and treatment effectiveness.*

3. The upper parking lot is a designated staging area and needs to be top dressed with Class 5.

4. Railings have been added to both sides of the ADA accessible route and the concrete stairway of Alternate #1.

5. Contractors may propose similar diameter MnDOT 2501.503 RC PIPE CULVERT CLASS II as an alternate to CP PIPE CULVERT (SMOOTH). Bidders shall note the pipe material in the Bidder Question box of the solicitation.

6. Changes have been made to the bid form in the BidExpress solicitation. Contractors should be aware that separate pricing is not requested for alternates, rather the price for alternates shall be determined using the unit prices provided in the base bid.
7. Attached is a revised planset with changes per this addendum.

8. The following list of attendees is provided in lieu of a pre-bid sign-in sheet:
   Andy Dammer - VEIT
   Troy – Prairie Restorations
   Mike – Bougalis
   Rob Irving – Dirt Inc
   Mike Johnson – KTM
   Jim Shoberg – City of Duluth
   Will DeRocher - TKDA

Please acknowledge receipt of this Addendum by checking the acknowledgment box within the www.bidexpress.com solicitation.

Posted: July 2, 2020
CONSTRUCTION PLANS FOR:
PIEDMONT RECREATIONAL AREA GREEN INFRASTRUCTURE IMPROVEMENTS
CITY OF DULUTH
CONSTRUCTION PLANS FOR STORMWATER INFRASTRUCTURE AND ACCESSIBILITY IMPROVEMENTS

LOCATION MAP

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
06/18/20

LICENSE NO.
54757

GOPHER STATE ONE CALL
651.454.0002
800.202.1166
811
1.866.640.3637 (EMERGENCY LOCATES ONLY)
http://www.gopherstateonecall.org/submit

PROJECT LOCATION
ST. LOUIS COUNTY
CITY OF DULUTH
SECTION 29
T 50 , R 14

CONTRACTOR TO NOTIFY 911 PERSONNEL PRIOR TO ALL ROAD CLOSURES.

CONTRACTOR TO NOTIFY 911 PERSONNEL PRIOR TO ALL ROAD CLOSURES.
### CONSTRUCTION NOTES:

1. REMOVE STAIRS ITEM INCLUDES REMOVAL AND DISPOSAL OF EXISTING WOODEN STAIRCASE.
2. WETLAND RESTORATION PAY ITEM INCLUDES ALL LABOR, EQUIPMENT AND MATERIALS NECESSARY TO SCARIFY Delineated AREAS, TOPSOIL, SEED AND BLANKET EXCAVATED ROOT MASSES, CULTIVATION OF NATIVE PLANTINGS AND THREE (3) YEARS OF INVASIVE SPECIES MANAGEMENT. WETLAND RESTORATION AREA IS 0.45 ACRE.
3. CONCRETE STAIRWAY PAY ITEM INCLUDES LABOR, MATERIALS, EQUIPMENT AND SUBCUT FOR GROUND PREPARATION. HAND RAILINGS SHALL BE INSTALLED ALONG BOTH SIDES OF THE STAIRCASE AS WELL AS BOTH SIDES OF THE ACCESSIBLE WALKWAY.
4. INTERPRETIVE SIGN ITEM - TO BE PROVIDED BY OTHERS. CONTRACTOR TO INSTALL SIGN FOUNDATION, POSTS AND SIGN PANEL.
5. SEED MIXTURE 34-171 ITEM TO BE USED IN BWSR WT3 AND WETLAND RESTORATION AREAS. USES 5.3 LBS/ACRE.
6. SEED MIXTURE 25-151 ITEM TO BE USED IN RESTORATION ADJACENT TO ROADWAY AND TRAIL IN MOWED AREAS. USES 120 LBS/ACRE.
7. SEED MIXTURE 36-411 ITEM TO BE USED IN 'NO-MOW' AREAS. USES 35.5 LBS/ACRE.
8. PAY ITEM SHALL INCLUDE ALL EQUIPMENT, MATERIALS AND LABOR NECESSARY TO BLANKET ALL DISTURBED AREAS. DISTURBED AREAS INCLUDE GRADING AND WETLAND ENHANCEMENT. SEED AND BLANKETING OF AREAS USED FOR STAGING, BORROW OR SPOILS SHALL BE CONSIDERED INCIDENTAL TO THE COMMON EXCAVATION PAY ITEM.
9. PAY ITEM SHALL INCLUDE ALL EQUIPMENT, MATERIALS AND EQUIPMENT NECESSARY TO BARRICADE WORK AREAS DURING CONSTRUCTION. CONTRACTOR TO PROVIDE ADVANCED WARNING TO CITY AND EMERGENCY SERVICES OF ROAD CLOSURES AND BARRICADE GRADING AND CLEARING WORK ZONES. ROAD CLOSURES TO BE COMPLETED IN ACCORDANCE WITH MNDOT TRAFFIC CONTROL MANUAL DATED DECEMBER 2019. ALL SIGNAGE, BARRIERS AND FLAGGING SHALL BE CONSIDERED INCIDENTAL TO THE TRAFFIC CONTROL PAY ITEM.
10. CLEARING AND GRUBBING PAY ITEM SHALL INCLUDE ALL EQUIPMENT, LABOR AND MATERIALS NECESSARY TO CUT VEGETATION AND REMOVE ROOTS IN THE PLAN DESIGNATED AREAS. PAY ITEM INCLUDES WORK ASSOCIATED WITH REMOVING BRUSH FOR SITE FEATURES (PATHWAYS AND STORMWATER FEATURES) AS WELL AS INVASIVE SPECIES REMOVAL. PAY ITEM SHALL INCLUDE ALL VEGETATION, INDISCRIMINATE OF DIAMETER. CONTRACTOR TO PROTECT NATIVE AND SPECIAL TREES ADJACENT TO WORK AREAS. INVASIVE SPECIES WITHIN WETLANDS SHALL BE REMOVED BY MECHANICAL MEANS. OUTSIDE DELINEATED WETLANDS, HERBICIDE TREATMENT IS ALLOWED. CONTRACTOR SHALL SUPPLY PROOF OF HERBICIDE APPLICATION LICENSURE AT THE TIME OF THE RECONSTRUCTION MEETING.
11. PAY ITEM SHALL INCLUDE ALL EQUIPMENT,LABOR AND MATERIALS NECESSARY FOR INSTALLATION OF SAND FILTER IN FILTRATION BASIN.
12. PAY ITEM SHALL INCLUDED ALL EQUIPMENT, LABOR AND MATERIALS NECESSARY TO INSTALL TOPSOIL IN FILTRATION BASIN.
13. CONCRETE PATHWAY ALTERNATE IS A REPLACEMENT OF BITUMINOUS PAVEMENT WITH CONCRETE FOR PARK PATHWAYS.

### STATEMENT OF ESTIMATED QUANTITIES

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EXISTING CONDITIONS AND REMOVALS

CLEARING & GRUBBING LIMITS

1. CLEARING AND GRUBBING OF INVASIVE SPECIES SHALL INCLUDE BUCKTHORN, EURASIAN HONEYSUCKLE AND SPECIES IDENTIFIED ON THE MDA WEBSITE: https://www.mda.state.mn.us/plants-insects/minnesota-noxious-weed-list
2. REMOVAL TO FOLLOW INDUSTRY BEST PRACTICES ON TIMING FOR EFFECTIVENESS.
3. CONTRACTOR TO SUBMIT SCHEDULE OF REMOVAL FOR APPROVAL
4. SIGN TO BE POSTED WHEN SPRAYING
5. INVASIVE SPECIES CONTRACTOR TO HAVE A STATE HERBICIDE APPLICATORS LICENSE.

CONSTRUCTION NOTE:

CONTRACTOR STAGING AREA
TOPDRESS WITH CLASS 5 AGGREGATE
100 CY

WETLAND AREA
19545 SQ. FT.
0.45 ACRES

CLEAR INVASIVE SPECIES TO PARK LIMITS 11.55 AC

REMOVE PIPE APRONS (2) AND PIPE CULVERT (75 LF)

REMOVE WOODEN STAIRS
ADD ALT #1

SAWING BITUMINOUS
REMOVE BITUMINOUS PAVEMENT

ALL CONTRACTORS AND SUBCONTRACTORS SHALL VERIFY ALL DIMENSIONS BY MEASUREMENT AT THE BUILDING AND/or SITE.
10' BITUMINOUS PATH (CONCRETE SIDEWALK ALT #1)

EXISTING GRAVEL

SIDEWALK WITH TRUNCATED DOMES

PVI STA: 6+82.15
PVI ELEV: 1257.73
LENGTH: 50.00

7.19%

0.84%

ACCESSIBLE PATH PLAN & PROFILE STATION 6+00 TO 9+00
ACCESSIBLE PATH PLAN & PROFILE STATION 0+00 TO 1+31
### PLANT SCHEDULE

#### DECIDUOUS TREES

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#### DECIDUOUS SHRUBS

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PROJECT DESCRIPTION

This project will improve stormwater control and treatment in the Piedmont Recreation Area in Duluth, MN. Ground disturbing activities associated with this project will include grading, wetland enhancement, invasive species removal, drainage improvements, and pathway construction. The total land area anticipated to be disturbed by the project (exclusive of borrow and disposal areas) is 2.39 acres.

CONSTRUCTION NOTES

Construction shall be governed by the 2018 MnDOT standard specifications, and current 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 BMP's 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 available for rapid deployment when necessary.

THE EROSION AND SEDIMENTATION CONTROL BMP'S 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 BMP's 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 BMP's (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 BMP's for erosion.

CALCULATIONS

Total disturbed area = 2.39 acres
Post construction impervious area = 0.19 acres
Existing impervious area = 0.19 acres
Impervious net = 0.00 acres (no net increase)

TIMING OF BMP INSTALLATION

The SWPPP Engineer is:
WILL DEROCHER, P.E.
TKDA -
11 E. SUPERIOR ST. SUITE 420
DULUTH, MN 55802
218.491.7384
will.derocher@tkda.com

Contact:
PROJECT SUPERVISOR IS: (TBD)
NAME
ADDRESS
PHONE
EMAIL

MPCA
NPDES
JIM DEXTER
218.302.6632
james.dexter@state.mn.us

CONTRACTORS EROSION CONTROL SUPERVISOR
T.B.D.
218.730.4316
jshoberg@duluthmn.gov

PROJECT ENGINEER
WILL DEROCHER, PE
218.491.7384
will.derocher@tkda.com

CITY OF DULUTH
GRADING AND CONSTRUCTION
JIM SHOBERG, PLA
218.730.4316
jshoberg@duluthmn.gov

PROJECT MANAGER
N/A
T.B.D.
PHONE
EMAIL

CONTACTS

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 AVAILABLE FOR RAPID DEPLOYMENT WHEN NECESSARY.
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 manufacturer’s 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 will include, but not limited to, sumps, sump pumps, and settling basins. The contract engineer will inspect and approve the engineered system before use. The contractor will provide all necessary equipment for proper cleanup of concrete residue 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 pallet containing absorbent will be disposed of properly after the work is completed.

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 next 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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CONSTRUCTION NOTES:
1. CONCRETE WALKWAYS SHALL HAVE CONCRETE PED RAMPS AT BOTH SIDES OF PARKING LOT ENTRANCE.
2. PROVIDE 2% MAX CROSS SLOPE TO MAINTAIN POSITIVE DRAINAGE AWAY FROM WALKWAY THROUGH ITS ENTIRE LENGTH.

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SAWCUT PAVEMENT FOR A CONSISTENT PATCH INTERFACE

MECHANICALLY COMPACTED GRANULAR BACKFILL (6'-8" LIFTS)

REPLACED UTILITY

SAWCUT PAVEMENT FOR A CONSISTENT PATCH INTERFACE

MECHANICALLY COMPACTED GRANULAR BACKFILL (6'-8" LIFTS)

REPLACED UTILITY

CONSTRUCTION NOTES:
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SAWCUT PAVEMENT FOR A CONSISTENT PATCH INTERFACE
TABLE OF QUANTITIES
RIPRAP AT RCP OUTLETS

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<tr>
<th>CLASS III</th>
<th>DIA. OF ROUND PIPE (IN.)</th>
<th>DEPTH RIPRAP (CU. YDS.)</th>
<th>DEPTH GRANULAR FILTER (CU. YDS.)</th>
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<tr>
<td>9&quot;</td>
<td>18</td>
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<td>10&quot;</td>
<td>14</td>
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NOTES:
1. PIPE SIZES LARGER THAN THOSE SHOWN REQUIRE A SPECIAL DESIGN.
2. REQUIREMENTS FOR RIPRAP SIZE AND THICKNESS AND GRANULAR FILTER BLANKET WILL BE DESIGNED WITH THE PLANS.

KEY NOTES:
1. FOR PIPES GREATER THAN OR EQUAL TO 30", USE 1.5'.
2. THE CONTRACTOR, AT HIS OPTION, MAY SUBSTITUTE A GEOTEXTILE FABRIC, SPEC. 3733, FOR THE GRANULAR FILTER BLANKET UNLESS OTHERWISE SPECIFIED IN THE PLANS. THE FABRIC SHOULD COVER THE AREA OF THE RIPRAP AND EXTEND UNDER THE APRON 3FT.

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Provide stairs with a 1'-0" tread and a 6" rise. Adjust the sidewalk or superstructure elevations to make all risers 6" tall.

#3 at each tread

a) Provide stairs with a 1'-0" tread and a 6" rise.
b) Adjust the sidewalk or superstructure elevations to make all risers 6" tall.

#3@12" O.C. each way

The preferred number of risers in a flight of stairs is 14 to 16. The maximum number is 19.

Sealant

2-#4x1/4"x4" Kick Plate

Top of slab

Grout

Varies 4" Min.

Un. U.N.O.

Filtration basin detail

18" Sand

6" Topsoil

See note 1

Section A-A

Plan

Notes:

1. MnDOT Spec 2674.507 Filter Topsoil Borrow
2. Seed with MnDOT Seed Mix 36-411

Typical pathway section

10' Width

4% 2% 4% 2'

Typical pathway section

18" Sand

6" Topsoil

Max (slope 3H:1L)

SECTION A-A

Plan

Notes:

1. MnDOT Spec 2674.507 Filter Topsoil Borrow
2. Seed with MnDOT Seed Mix 36-411

Handrail detail

#3 Galv. pipe sleeve (3.068 I.D.) 6" long except where slab is less than 8" thick. Use sleeve 4 1/2" long Galv.

2 1/2" sched. 40 rails (typ. U.N.O.)

Galvanize ASTM A123

1 1/2" sched. 80 pipe post max. SPA 6'-0" U.N.O.

1/4"x4" Kick Plate

Top of slab

Grout

Sealant

Varies 4" Min.

Un. U.N.O.

Railings attachment

1:4 Top & Bot.

1 - 6"

3 - 6"

6" Topsoil

18" Sand

1 - 6"
BAR IS ONE INCH ON ORIGINAL DRAWING. IF NOT ONE INCH ON THIS DRAWING ADJUST SCALES ACCORDINGLY.

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

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 ENGINEER UNDER THE LAWS OF THE STATE OF MINNESOTA.
BAR IS ONE INCH ON ORIGINAL DRAWING. IF NOT ONE INCH ON THIS DRAWING ADJUST SCALES ACCORDINGLY.
PLANS FOR DITCH BLANKET INSTALLATION

1. Use check slot detail in alternate.
2. Place double row of staples staggered 4" apart and 6" on center.
3. Use 4" x 4" trench to place blanket, place single row of staples on top and trench sides at 12" spacing. Bury fill trench with soil and tamp.
4. Place staple check for channel slopes less than 2:1, space at 12" intervals, place double row of staples staggered 4" apart and 6" on center.
5. Use staple check for the following slopes:
   - 1:1 to 2:1 intervals
   - 1:4 to 2:1 intervals
6. Critical points shall be secured with proper staple pattern.

GENERAL BLANKET INSTALLATION REQUIREMENTS

1. Prepare soil as per specification 8714.
2. Lay parallel or perpendicular to the direction of water flow.
3. Use check slot detail as shown.
4. Place staple check for the following slopes:
   - 1:1 to 2:1 intervals
   - 1:4 to 2:1 intervals
5. Critical points shall be secured with proper staple pattern.