

PUBLIC WORKS & UTILITIES COMMITTEE

13-0600R

RESOLUTION AMENDING CONTRACT NO. 21749 WITH SEH, INC. TO PROVIDE PROFESSIONAL ENGINEERING SERVICES FOR THE REPLACEMENT OF BOX CULVERTS IN KEENE CREEK AT 63RD AVENUE WEST, GREENE STREET AND BRISTOL STREET, TO INCREASE THE AMOUNT BY \$68,726 FOR A NEW TOTAL OF \$207,529.

CITY PROPOSAL:

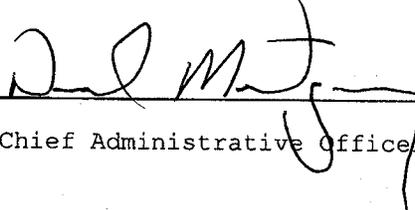
RESOLVED, that Contract 21749 with SEH, Inc. for professional engineering services for the replacement of box culverts in Keene Creek at 63rd Avenue West, Greene Street and Bristol Street, be amended to increase the amount by \$68,726 for a new total of \$207,529, payable from Disaster Recovery Fund 225, Department/Agency 125 (Finance), Object 5303 (Improvements Other than Buildings), city project nos. 1126, 1127 and 1146.

Approved:



Department Director

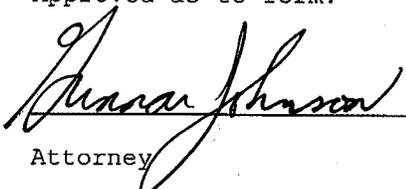
Approved for presentation to council:



Chief Administrative Officer

Purchasing Agent 

Approved as to form:



Attorney

Approved:



Auditor

ENG PFL:jh 11/26/2013

STATEMENT OF PURPOSE: This resolution will authorize an amendment to Contract 21749 with SEH, Inc. for professional engineering services related to the replacement of box culverts in Keene Creek at 63rd Avenue West, Greene Street and Bristol Street. Construction phase of these projects is scheduled for 2014,

funded by FEMA and flood bond monies. Due to the need to separate the plans to bid each site separately, increased funding is needed for the bidding and construction administration phases of the project.



Building a Better World
for All of Us™

November 22, 2013

RE: Keene Creek Box Culverts
Duluth, Minnesota
SEH No. DULUT 121595

Mr. Patrick Loomis, PE
City of Duluth Engineering
411 West 1st Street
Duluth, MN 55802

Dear Mr. Loomis:

As we discussed throughout the development of this project, SEH completed several additional tasks that were outside of our original contract scope. These items were either directed by the City or unforeseen, and outside our original scope. The majority of the work was in relation to separating Greene Street, 63rd, and Bristol Street into three individual plan and bid sets.

Our original contract for the survey, project management and meetings, environmental documentation, Box Culverts designs, construction administration, observation, staking, and testing is \$138,803. This fee was based on the assumption that all 3 projects would be designed as one plan set and one construction project. The City directed us to split the 3 projects into individual plan and bid sets. To date we have spent an additional \$39,284 in design and additional work. We also anticipate needing an additional \$14,000 in construction administration, observation, testing, and record drawings for the Bristol and 63rd Ave West construction. We had \$1,500 budgeted for environmental work that was not used on any of the projects.

We are requesting a contract amendment in the amount of \$68,726 (\$42,226 + \$28,000 – \$1,500). Per our original proposal letter, we anticipated separating these into 3 projects would add \$43,249 to the overall cost, not including soil borings or materials testing.

I have outlined below the additional work required on this project.

1. DNR Coordination **\$2,600**

We budgeted 2 hours for completion of DNR General Permits assuming this was one construction project. The time needed for separating these into separate permits, onsite meetings with the DNR, coordination with the DNR, and design of rock and substrate material took significantly longer than the 2 hours budgeted.

2. Project Management/Meetings **\$4,500**

This project was scheduled to be completed in the fall of 2012. After the City's decision to separate the projects and the DNR's decision to not allow the projects to be constructed in 2012, 63rd and Bristol were delayed one construction season. This has resulted in addition meeting and project management time.

Engineers | Architects | Planners | Scientists

Short Elliott Hendrickson Inc., 418 West Superior Street, Suite 200, Duluth, MN 55802-1512

SEH is an equal opportunity employer | www.sehinc.com | 218.279.3000 | 888.722.0547 | 888.908.8166 fax

3. Final Design **\$33,476**

Our contract assumed that all three projects were going to be one plan and bid set. As directed by the City, we separated the projects into 3 plan and bid sets. In addition, there was gas main work added to the 63rd Avenue project and sanitary sewer design added to the Bristol Street project. We had also started the Bristol /63rd plan set as one design until we were directed to separate these in the spring of 2013.

4. Geotechnical Borings **\$1,650**

Due to the City's gas and water main work on 63rd, we were asked to perform geotechnical borings on 63rd to provide bedrock elevations. This work was outside of our original contract.

5. Construction Administration/Observation/Staking/Testing **\$28,000**

This is an estimated cost to complete all construction services for the construction of 63rd and Bristol Street box culverts. The majority of this cost is to perform additional administration, observation, staking, and record drawings for the remaining projects. This also includes additional time for bidding assistance for 3 separate projects.

Our current contract does not include construction materials testing. We've included quotes from Braun Intertec to complete full concrete, bituminous and compaction testing on both projects. This is included in the above proposed cost. If the City decides to contract this work directly, this could be removed from our cost. The construction tasks would be billed hourly as needed.

Please call me after you review this request with any questions.

Sincerely,

SHORT ELLIOTT HENDRICKSON INC.



Matt Bolf, PE
Project Manager

sa

c: File

s:\aeld\dulut\1215952-proj-mgmt\keene creek contract amendment.docx

MINNESOTA DEPARTMENT OF TRANSPORTATION

CITY OF DULUTH

DEPARTMENT OF PUBLIC WORKS AND UTILITIES
ENGINEERING DIVISION

CONSTRUCTION PLANS FOR: BOX CULVERT REPLACEMENT

63rd AVENUE BOX CULVERTS

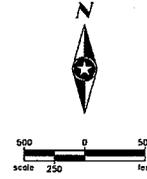
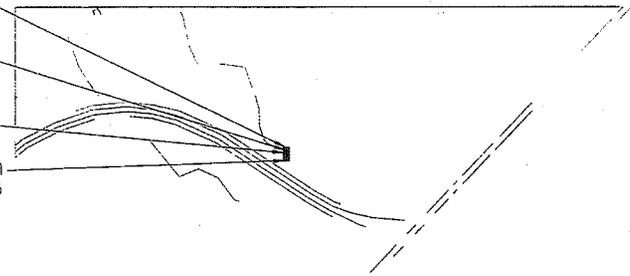
CITY PROJECT NO. 1126

DULUTH FLOOD SITE NO. 29

S.P. NO. 118-103-005

63rd AVE - KEENE CREEK		
GROSS LENGTH	129.28 FEET	0.0244 MILES
BRIDGES-LENGTH	22 FEET	0.042 MILES
EXCEPTIONS	0 FEET	0 MILES
NET LENGTH	129.28 FEET	0.0244 MILES
REF. POINT	0	

STA 11+54.09
END S.P. 118-103-005
63RD AVENUE
BRIDGE NO. 69K12
EXISTING
BRIDGE NO. L3140
STA 10+24.81
BEGIN S.P. 118-103-005



DESIGN DESIGNATION
S.P. 118-103-005

PROJECT	63RD AVE-KEENE CREEK BOX CULVERTS
DESIGN	10 TON
DESIGN SPEED	30 MPH
R-VALUE	30
ESALS	742,088
EXISTING A.D.T.	1,836
20 YR. PROJECTED A.D.T.	2,200
% HCADT	10%
FUNCTIONAL CLASSIFICATION	URBAN-COLLECTOR
NO. OF TRAFFIC LANES	2
NO. OF PARKING LANES	0

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

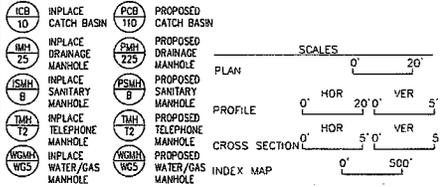


Know what's below.
Call before you dig.

LEGEND

- 5+00 6+00
- EXISTING
- RIGHT OF WAY
- PERMANENT EASEMENT
- PROPERTY LINE
- R.R. RIGHT OF WAY
- SANITARY SEWER AND MANHOLE
- FORCE MAIN
- SANITARY SEWER SERVICE & CLEANOUT
- WATER MAIN, HYDRANT AND VALVE
- WATER SERVICE AND CURB STOP BOX
- WATER VALVE MANHOLE
- STORM SEWER, APRON, MANHOLE AND CATCH BASIN
- CULVERT
- BULKHEAD
- BURIED FIBER OPTIC CABLE
- BURIED FIBER OPTIC DUCT OR CONDUIT
- BURIED PHONE CABLE AND PEDESTAL
- BURIED PHONE DUCT OR CONDUIT AND MANHOLE
- BURIED TV CABLE AND PEDESTAL
- BURIED ELECTRIC CABLE
- BURIED ELECTRIC DUCT OR CONDUIT AND MANHOLE
- OVERHEAD ELECTRIC, POLE AND DOWN GUY ANCHOR
- LIGHT POLE
- TRAFFIC SIGNAL STANDARD
- GAS MAIN
- GAS SIGN, VALVE AND VENT
- PETROLEUM PIPELINE
- SOIL BORING
- TRAVERSE POINT
- CONCRETE CURB AND GUTTER
- EXISTING PAVEMENT OR SIDEWALK
- SIGN (HWY, PARK, STOP, ETC.)
- STREET NAME SIGN
- DITCH
- RAILROAD TRACKS
- FENCE (UNIDENTIFIED)
- BARBED WIRE FENCE
- CHAIN LINK FENCE
- ELECTRIC WIRE FENCE
- WOOD FENCE
- WOODEN WIRE FENCE
- PLATE BEAM GUARDRAIL
- CABLE GUARDRAIL
- DECIDUOUS AND CONIFEROUS TREE
- BUSH-SHRUB
- WOODEN AREA
- WETLAND
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- DITCH
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- SILT FENCE
- FLOATATION SILT CURTAIN
- BOROLL
- LIGHT POLE
- TRAFFIC SIGNAL STANDARD
- SIGN (HWY, PARK, STOP, ETC.)
- STREET LIGHT FEED POINT
- STREET LIGHTING CABLE

MANHOLE & CATCH BASIN INDEX



Minn. Proj. No. ER MN12(258)

GOVERNING SPECIFICATIONS

THE 2005 EDITION OF THE MINNESOTA DEPARTMENT OF TRANSPORTATION "STANDARD SPECIFICATIONS FOR CONSTRUCTION" SHALL GOVERN.

THE 2013 EDITION OF THE CITY OF DULUTH PUBLIC WORKS AND UTILITIES DEPARTMENT STANDARD CONSTRUCTION SPECIFICATIONS AND ALL AMENDMENTS SHALL APPLY.

ALL TRAFFIC CONTROL DEVICES AND SIGNING SHALL CONFORM TO THE LATEST EDITION OF THE MINNESOTA MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES, INCLUDING THE LATEST FIELD MANUAL FOR TEMPORARY TRAFFIC CONTROL ZONE LAYOUTS.

INDEX

SHEET NO.	DESCRIPTION
1	TITLE SHEET
2	GENERAL LAYOUT
3-5	QUANTITIES & TABULATIONS
6	REMOVALS
7	SOIL CONSTRUCTION NOTES & PED RAMPS
8	TYPICAL SECTION & PAVEMENT PLAN
9-10	PAVEMENT JOINT DETAILS
11-15	PEDESTRIAN CURB RAMP DETAILS
16-19	CONSTRUCTION & EROSION CONTROL DETAILS
20	63RD AVE PLAN & PROFILE
21	GRADING PLAN
22	RESTORATION PLAN
23	TRAFFIC CONTROL PLAN
24-29	BRIDGE PLANS - BRIDGE 69K12

THIS PLAN CONTAINS 29 SHEETS

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.

SCOTT D. HEDLUND, P.E.

PROJECT ENGINEER (TYPED OR PRINTED NAME)	7/23/2013	40686
<i>Scott D. Hedlund</i>	DATE	REG. NO.
PROJECT ENGINEER		

CITY APPROVALS:

APPROVED	<i>Chadwick</i>	9/3/13
	CITY ENGINEER OF TRANSPORTATION	DATE
APPROVED	<i>Ernst</i>	9/3/13
	CHIEF ENGINEER OF UTILITIES	DATE
APPROVED	<i>JK</i>	9/3/13
	CITY ENGINEER	DATE

STATE APPROVALS:

REVIEWED FOR COMPLIANCE WITH STATE AID RULES/POLICY:	9/6	2013
<i>Walters</i>	DATE	YEAR
	DISTRICT STATE AID ENGINEER	
APPROVED FOR STATE AID AND FEDERAL AID FUNDING:	9/25	2013
<i>Stallman</i>	DATE	YEAR
	STATE AID ENGINEER	



PHONE: 218.279.3000
418 W SUPERIOR ST STE 200
DULUTH, MN 55802-1512
www.sehinc.com

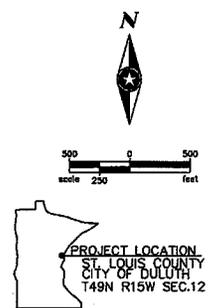
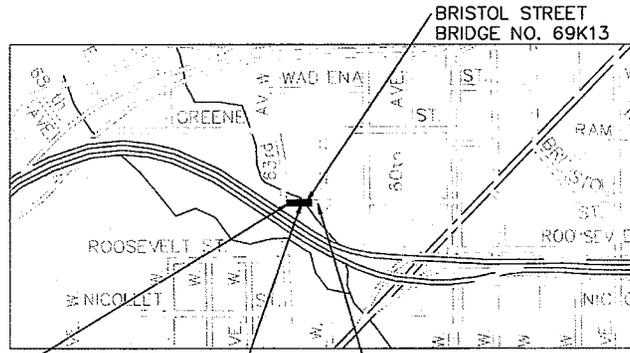
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MINNESOTA DEPARTMENT OF TRANSPORTATION
 CITY OF DULUTH
 DEPARTMENT OF PUBLIC WORKS AND UTILITIES
 ENGINEERING DIVISION

**CONSTRUCTION PLANS FOR: BOX CULVERT REPLACEMENT
 BRISTOL STREET BOX CULVERTS**

**CITY PROJECT NO. 1127
 DULUTH FLOOD SITE NO. 29
 S.A.P. NO. 118-080-047**

BRISTOL STREET - KEENE CREEK			
GROSS LENGTH	240.05 FEET	0.045 MILES	
BRIDGES-LENGTH	22.00 FEET	0.004 MILES	
EXCEPTIONS	0.0 FEET	0.0 MILES	
NET LENGTH	240.05 FEET	0.045 MILES	
REF. POINT	0		



**DESIGN DESIGNATION
 S.A.P. 118-080-047**

PROJECT	BRISTOL ST-KEENE CREEK BOX CULVERTS
DESIGN	10 TON
DESIGN SPEED	30 MPH
R-VALUE	30
ESALS	41,544
EXISTING A.D.T.	320
20 YR. PROJECTED A.D.T.	384
% HCAD	6%
FUNCTIONAL CLASSIFICATION	URBAN-LOCAL
NO. OF TRAFFIC LANES	2
NO. OF PARKING LANES	0

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



Know what's below.
 Call before you dig.

CITY OF DULUTH PROJECT NO. 1127

S.A.P. NO. 118-080-047

SHEET 1 OF 29 SHEETS

MINN. PROJ. NO.

GOVERNING SPECIFICATIONS

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SCOTT D. HEDLUND
 PROJECT ENGINEER (TYPED OR PRINTED NAME)
 9/10/2013 40886
 PROJECT ENGINEER DATE LIC. NO.

CITY APPROVALS:

APPROVED: [Signature] 10/8/13
 CHIEF ENGINEER OF TRANSPORTATION DATE
 APPROVED: [Signature] 10/8/13
 CHIEF ENGINEER OF UTILITIES DATE
 APPROVED: [Signature] 10/8/13
 CITY ENGINEER DATE

STATE APPROVALS:

REVIEWED FOR COMPLIANCE WITH STATE AID RULES/POLICY:
 [Signature] 10/10/2013
 DISTRICT STATE AID ENGINEER
 APPROVED FOR STATE AID/FEDERAL AID FUNDING:
 [Signature] 10/16/2013
 STATE AID ENGINEER



LEGEND

5+00 6+00

EXISTING

- RIGHT OF WAY
- PERMANENT EASEMENT
- PROPERTY LINE
- R.R. RIGHT OF WAY
- SANITARY SEWER AND MANHOLE
- FORCE MAIN
- SANITARY SEWER SERVICE & CLEANOUT
- WATER MAIN, HYDRANT AND VALVE
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- SOIL BORING
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- STREET NAME SIGN
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- RAILROAD TRACKS
- FENCE (UNIDENTIFIED)
- BARBED WIRE FENCE
- CHAIN LINK FENCE
- ELECTRIC WIRE FENCE
- WOOD FENCE
- WOVEN WIRE FENCE
- PLATE BEAM GUARDRAIL
- CABLE GUARDRAIL
- DECIDUOUS AND CONIFEROUS TREE
- BUSH-SHRUB
- WOODED AREA
- WETLAND
- BUILDING

PROPOSED

- NEW RIGHT OF WAY
- PERMANENT EASEMENT
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- SANITARY SEWER AND MANHOLE
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MANHOLE & CATCH BASIN INDEX

ICB 10	INPLACE CATCH BASIN	PCB 110	PROPOSED CATCH BASIN
IMH 25	INPLACE DRAINAGE MANHOLE	PMH 225	PROPOSED DRAINAGE MANHOLE
ISMH 8	INPLACE SANITARY MANHOLE	PSMH 8	PROPOSED SANITARY MANHOLE
TMH 12	INPLACE TELEPHONE MANHOLE	PTMH 12	PROPOSED TELEPHONE MANHOLE
WMH 105	INPLACE WATER/GAS MANHOLE	PWMH 105	PROPOSED WATER/GAS MANHOLE

SCALES

PLAN: 0' 20'

PROFILE: 0' 20' 5'

CROSS SECTION: 0' 5' 0' 5'

INDEX MAP: 0' 500'

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MINNESOTA DEPARTMENT OF TRANSPORTATION
 CITY OF DULUTH
 DEPARTMENT OF PUBLIC WORKS AND UTILITIES
 ENGINEERING DIVISION

CONSTRUCTION PLANS FOR: BOX CULVERT REPLACEMENT
GREENE STREET BOX CULVERT

CITY PROJECT NO. 1128
 DULUTH FLOOD SITE NO. 135

S.A.P. NO. 118-080-044

	FEET	MILES
GROSS LENGTH	422.15	.080
BRIDGES-LENGTH	15	.003
EXCEPTIONS	0	0
NET LENGTH	422.15	.080
REF. POINT	0	

LEGEND

EXISTING	PROPOSED
RIGHT OF WAY	NEW RIGHT OF WAY
PERMANENT EASEMENT	PERMANENT EASEMENT
PROPERTY LINE	PROPERTY LINE
R.R. RIGHT OF WAY	R.R. RIGHT OF WAY
SANITARY SEWER AND MANHOLE	SANITARY SEWER SERVICE & CLEANOUT
FORCE MAIN	FORCE MAIN
SANITARY SEWER SERVICE & CLEANOUT	WATER MAIN, HYDRANT AND VALVE
WATER MAIN, HYDRANT AND VALVE	WATER SERVICE AND CURB STOP BOX
WATER SERVICE AND CURB STOP BOX	WATER VALVE MANHOLE
WATER VALVE MANHOLE	STORM SEWER, APRON, MANHOLE AND CATCH BASIN
STORM SEWER, APRON, MANHOLE AND CATCH BASIN	CULVERT
CULVERT	BULKHEAD
BULKHEAD	BURIED FIBER OPTIC CABLE
BURIED FIBER OPTIC CABLE	BURIED FIBER OPTIC DUCT OR CONDUIT
BURIED FIBER OPTIC DUCT OR CONDUIT	BURIED PHONE CABLE AND PEDESTAL
BURIED PHONE CABLE AND PEDESTAL	BURIED PHONE DUCT OR CONDUIT AND MANHOLE
BURIED PHONE DUCT OR CONDUIT AND MANHOLE	BURIED TV CABLE AND PEDESTAL
BURIED TV CABLE AND PEDESTAL	BURIED ELECTRIC CABLE
BURIED ELECTRIC CABLE	BURIED ELECTRIC DUCT OR CONDUIT AND MANHOLE
BURIED ELECTRIC DUCT OR CONDUIT AND MANHOLE	OVERHEAD ELECTRIC POLE AND DOWN GUY ANCHOR
OVERHEAD ELECTRIC POLE AND DOWN GUY ANCHOR	LIGHT POLE
LIGHT POLE	TRAFFIC SIGNAL STANDARD
TRAFFIC SIGNAL STANDARD	GAS MAIN
GAS MAIN	GAS SIGN, VALVE AND VENT
GAS SIGN, VALVE AND VENT	PETROLEUM PIPELINE
PETROLEUM PIPELINE	SOIL BORING
SOIL BORING	TRAVERSE POINT
TRAVERSE POINT	CONCRETE CURB AND GUTTER
CONCRETE CURB AND GUTTER	EXISTING PAVEMENT OR SIDEWALK
EXISTING PAVEMENT OR SIDEWALK	SIGN (HWY, PARK, STOP, ETC.)
SIGN (HWY, PARK, STOP, ETC.)	STREET NAME SIGN
STREET NAME SIGN	DITCH
DITCH	RAILROAD TRACKS
RAILROAD TRACKS	FENCE (UNIDENTIFIED)
FENCE (UNIDENTIFIED)	BARBED WIRE FENCE
BARBED WIRE FENCE	CHAIN LINK FENCE
CHAIN LINK FENCE	ELECTRIC WIRE FENCE
ELECTRIC WIRE FENCE	WOOD FENCE
WOOD FENCE	WOVEN WIRE FENCE
WOVEN WIRE FENCE	PLATE BEAM GUARDRAIL
PLATE BEAM GUARDRAIL	CABLE GUARDRAIL
CABLE GUARDRAIL	DECIDUOUS AND CONIFEROUS TREE
DECIDUOUS AND CONIFEROUS TREE	BUSH-SHRUB
BUSH-SHRUB	WOODED AREA
WOODED AREA	WETLAND
WETLAND	BUILDING
BUILDING	PROPOSED
PROPOSED	NEW RIGHT OF WAY
NEW RIGHT OF WAY	PERMANENT EASEMENT
PERMANENT EASEMENT	TEMPORARY EASEMENT
TEMPORARY EASEMENT	SANITARY SEWER AND MANHOLE
SANITARY SEWER AND MANHOLE	FORCE MAIN
FORCE MAIN	SANITARY SEWER SERVICE & CLEANOUT
SANITARY SEWER SERVICE & CLEANOUT	WATER MAIN, HYDRANT AND VALVE
WATER MAIN, HYDRANT AND VALVE	WATER SERVICE AND CURB STOP BOX
WATER SERVICE AND CURB STOP BOX	WATER VALVE MANHOLE
WATER VALVE MANHOLE	STORM SEWER, MANHOLE AND CATCH BASIN
STORM SEWER, MANHOLE AND CATCH BASIN	CULVERT
CULVERT	BULKHEAD
BULKHEAD	DRAIN PIPE
DRAIN PIPE	CONCRETE CURB AND GUTTER
CONCRETE CURB AND GUTTER	SILT FENCE
SILT FENCE	FLATATION SILT CURTAIN
FLATATION SILT CURTAIN	BOREROLL
BOREROLL	LIGHT POLE
LIGHT POLE	TRAFFIC SIGNAL STANDARD
TRAFFIC SIGNAL STANDARD	SIGN (HWY, PARK, STOP, ETC.)
SIGN (HWY, PARK, STOP, ETC.)	STREET LIGHT FEED POINT
STREET LIGHT FEED POINT	STREET LIGHTING CABLE

MANHOLE & CATCH BASIN INDEX

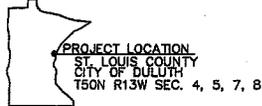
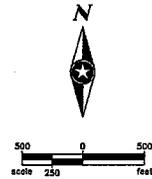
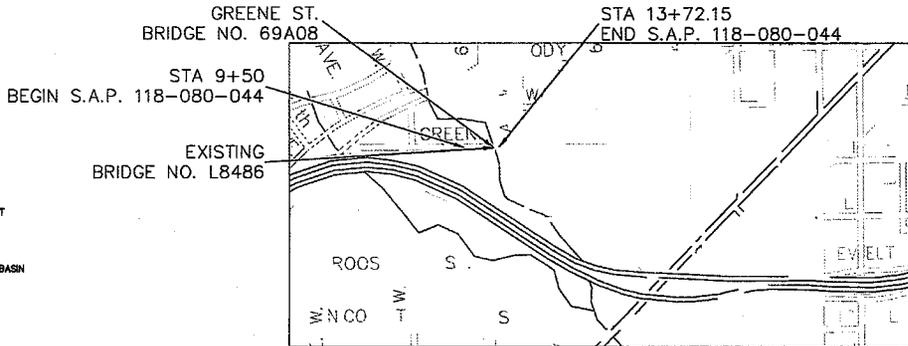
EXISTING	PROPOSED	PLAN	PROFILE	CROSS SECTION	INDEX MAP
ICB 10	PCB 110	SCALE 0' 20'	0' 20' 0" VER 5'	0' 5' 0" VER 5'	0' 500'
IMH 25	FMH 225				
ISMH 8	FSMH 7				
TMH 12	TMH 12				
WMH 12	WMH 12				
WGMH 12	WGMH 12				

DESIGN DESIGNATION
 S.A.P. 118-080-044

PROJECT KEENE CREEK BOX CULVERTS

DESIGN	422.15
DESIGN SPEED	20 MPH
R-VALUE	30
ESALS	1,588
EXISTING A.D.T.	12
20 YR. PROJECTED A.D.T.	15
% HCADT	6%
FUNCTIONAL CLASSIFICATION	RURAL
NO. OF TRAFFIC LANES	2
NO. OF PARKING LANES	0

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



MINN. PROJ. NO.

GOVERNING SPECIFICATIONS
 THE 2005 EDITION OF THE MINNESOTA DEPARTMENT OF TRANSPORTATION "STANDARD SPECIFICATIONS FOR CONSTRUCTION" SHALL GOVERN.

THE 2011 EDITION OF THE CITY OF DULUTH PUBLIC WORKS AND UTILITIES DEPARTMENT STANDARD CONSTRUCTION SPECIFICATIONS AND ALL AMENDMENTS SHALL APPLY.

ALL TRAFFIC CONTROL DEVICES AND SIGNING SHALL CONFORM TO THE LATEST EDITION OF THE MINNESOTA MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES, INCLUDING THE LATEST FIELD MANUAL FOR TEMPORARY TRAFFIC CONTROL ZONE LAYOUTS.

INDEX

SHEET NO.	DESCRIPTION
1	TITLE SHEET
2	ESTIMATED QUANTITIES
3	TABULATIONS
5	TYPICAL SECTIONS
6-9	DETAILS
10	PLAN AND PROFILES
11	EROSION CONTROL AND TURF ESTABLISHMENT
12	DETOUR SHEETS AND TRAFFIC CONTROL
13-17	BRIDGE NO. 69A08

THIS PLAN CONTAINS 17 SHEETS

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.

Matthew J. Bolf, P.E.
 PROJECT ENGINEER (TYPED OR PRINTED NAME)
 PROJECT ENGINEER: [Signature] DATE: 10/9/12 REG. NO. 43913

CITY APPROVALS:

APPROVED: [Signature] CHIEF ENGINEER OF TRANSPORTATION DATE: 10/9/12
 APPROVED: [Signature] CHIEF ENGINEER OF UTILITIES DATE: 10/9/12
 APPROVED: [Signature] CIVIL ENGINEER DATE: 10/9/12

STATE APPROVALS:

REVIEWED OR CONFORMANCE WITH STATE AID RULES/POLICY: [Signature] DATE: 10/10/12 DISTRICT STATE AID ENGINEER
 APPROVED FOR STATE AID AND FEDERAL AID FUNDING: [Signature] DATE: 10/12/12 STATE AID ENGINEER



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