

1720 NEW STREET RETAINING WALL
CIVIL PLAN

ADDENDUM #1

CITY PROJECT NO. 1303

PROJECT LOCATION
ST. LOUIS COUNTY
CITY OF DULUTH

GSOC

MN. TOLL
FREE 1-800-252-1166

GOVERNING SPECIFICATIONS

THE 2014 EDITION OF THE MINNESOTA DEPARTMENT OF TRANSPORTATION "STANDARD SPECIFICATIONS FOR CONSTRUCTION" SHALL GOVERN.
(AVAILABLE AT: <http://www.dot.state.mn.us/tecsup/>)

THE 2360 PLANT MIXED ASPHALT PAVEMENT COMBINED 2360/2350 (GYRATORY/MARSHALL DESIGN) SPECIFICATION FOR 2012 CONSTRUCTION SEASON SHALL APPLY.
(AVAILABLE AT: <http://www.mrr.dot.state.mn.us/pavement/bituminous/bituminous.asp>)

ALL TRAFFIC CONTROL DEVICES AND SIGNING SHALL CONFORM TO THE MN MUTCD, INCLUDING THE FIELD MANUAL DATED FEBRUARY 2011.
(AVAILABLE AT: <http://www.dot.state.mn.us/trafficeng/otepubl/fieldmanual2007/index.html>)

THE CURRENT EDITION OF THE CITY OF DULUTH PUBLIC WORKS AND UTILITIES DEPARTMENT STANDARD CONSTRUCTION SPECIFICATIONS AND SUPPLEMENTS OR ADDENDUMS SHALL APPLY.
<http://www.duluthmn.gov/engineering/standard-construction-specifications/>

BASIS OF BEARING / CONTROL

BEARINGS BASED ON THE ST. LOUIS COUNTY TRANSVERSE MERCATOR COORDINATE SYSTEM OF 1996.

POINT NAME:	NORTHING:	EASTING:	ELEVATION:	DESCRIPTION:
CONTROL POINT #1	3337682	4839137	778.91	BM FLAGPOLE
CONTROL POINT #2				
CONTROL POINT #3				
CONTROL POINT #4				
CONTROL POINT #5				

SHEET INDEX

SHEET NAME:	DESCRIPTION:
C1.0	TITLE
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C7.0	SITE & GRADING PLAN
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UTILITY DETAIL LEVEL

THE SUBSURFACE UTILITY INFORMATION IN THIS PLAN IS UTILITY LEVEL B. 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".

CITY APPROVALS

APPROVED	CITY ENGINEER	APPROVED
APPROVED	CHIEF ENGINEER - UTILITIES	APPROVED
APPROVED	CHIEF ENGINEER - TRANSPORTATION	APPROVED

CITY OF DULUTH PROJECT NO. 1303

Northland
Consulting Engineers L.L.P.
Structural, Civil and Forensic Engineering Services
Voice: (218) 727-5995
Fax: (218) 727-7779
www.nce-engineers.com

Project Name:
**1720 NEW STREET
RETAINING WALL**
1720 NEW STREET, DULUTH, MN

I hereby certify that this plan, specification, or report was prepared by me or under my direct supervision and that I am a duly licensed Professional Engineer under the laws of the State of Minnesota.

May 22, 2015
Lic. No: 40926
Engineer: David G. Bolf

Project#: 14-265
Date: 05/22/15
Drawn By: TTP
Checked By: DGB
ADDENDUM #1
5-22-15

TITLE SHEET
Sheet Number
C1.0

DATE: _____

Initial _____

Statement of Estimated Quantities						
City of Duluth Project No. 1303 / New Street Retaining Wall				May 22, 2015		
LINE	SPEC.	ITEM	UNIT OF	ESTIMATED	UNIT	TOTAL
NO.	NO.	DESCRIPTION	MEASURE	QUANTITIES	COST	COST
1	2021.501	MOBILIZATION	LUMP SUM	1		
2	2101.511	CLEARING & GRUBBING	LUMP SUM	1		
3	2104.501	REMOVE RETAINING WALL	LIN FT	4		
4	2104.510	REMOVE DEBRIS (FAILED WALL)	LUMP SUM	1		
5	2104.521	SALVAGE GUARDRAIL & REINSTALL	LIN FT	35		
6	2105.501	COMMON EXCAVATION (P)	CU YD	15		
7	2105.522	SELECT GRANULAR BORROW MOD. 7% (CV)	CU YD	10		
8	2411.618	PREFABRICATED MODULAR BLOCK WALL	SQ FT	180		
9	2557.501	WIRE FENCE DESIGN 48V-9322	LIN FT	26		
10	2563.601	TRAFFIC CONTROL	LUMP SUM	1		
11	2573.502	SILT FENCE, TYPE HEAVY DUTY	LIN FT	30		
12	2575.505	SOD TYPE LAWN	SQ YD	40		
13	3877.501	TOPSOIL BORROW (CV)	CU YD	10		

GRAND TOTAL: _____



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STATEMENT OF
ESTIMATED
QUANTITIES
Sheet Number

C2.0

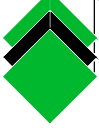
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GENERAL NOTES			OR PLANS ARE SUBJECT TO REMOVAL AND REPLACEMENT AT THE CONTRACTOR'S EXPENSE.		27. CONTRACTOR TO PROVIDE ALL LABOR, MATERIALS, EQUIPMENT AND SERVICES NECESSARY TO COMPLETE ALL PROJECT SITE WORK, SITE CLEARING, DEMOLITION, ROADWAY EXCAVATION, RELOCATIONS, STRUCTURE EXCAVATION, TRENCHING/BACKFILLING, ALL BORING, DRILLING, SITE GRADING AND EARTHWORK INCLUDING ALL PAVING, PIPING, UTILITY LINE CONSTRUCTION, CURBS, SIDEWALKS, SITE CONCRETE WORK AND OTHER MISCELLANEOUS SITE WORK STRUCTURES AND ITEMS INDICATED ON THE PLANS AND IN THE CONTRACT DOCUMENTS.
1. ALL WORK SHALL BE DONE IN ACCORDANCE WITH THE CURRENT EDITION OF THE MINNESOTA DEPARTMENT OF TRANSPORTATION "STANDARD SPECIFICATIONS FOR CONSTRUCTION" CONCURRENT WITH THE PERMIT DATE. (AVAILABLE AT: http://www.dot.state.mn.us/pre-letting/spec/	16. ALL WORK IS TO BE COMPLETED IN A SAFE MANNER IN ACCORDANCE WITH THESE CONSTRUCTION SPECIFICATIONS. ANY DEVIATION THEREFROM MUST BE APPROVED IN WRITING BY THE ENGINEER. INSTALLATION MUST CONFORM WITH THE REQUIREMENTS OF ALL GOVERNMENTAL REGULATING AGENCIES AND THE COST OF CONFORMING TO SUCH REGULATIONS MUST BE INCLUDED IN THE UNIT BID PRICES. EXAMPLES OF SUCH REGULATIONS, WITHOUT ATTEMPTING TO BE INCLUSIVE, ARE:	A. SPECIAL COMPACTION AND PAVING FOR STREET CROSSINGS.		28. THE ENGINEER OR OWNER SHALL NOT BE RESPONSIBLE FOR CONSTRUCTION.	
2. THE CURRENT EDITION OF THE CITY OF DULUTH PUBLIC WORKS AND UTILITIES DEPARTMENT STANDARD CONSTRUCTION SPECIFICATIONS AND SUPPLEMENTS OR ADDENDUMS SHALL APPLY. (AVAILABLE AT: http://www.duluthmn.gov/engineering/standard-construction-specifications/)	B. SHORING WHEN REQUIRED BECAUSE OF THE TRENCH DEPTH.		29. ALL OBSTRUCTIONS IN RIGHT OF WAY SHALL BE REMOVED BEFORE ANY CONSTRUCTION IS PERMITTED.		
3. CONTRACTOR SHALL ACQUIRE ALL NECESSARY PERMITS.	C. CLOSING A TRENCH IN THOSE AREAS WHERE NO OPEN TRENCH IS ALLOWED OVERNIGHT.		30. ANY QUANTITIES SHOWN ON PLANS ARE NOT VERIFIED BY THE ENGINEER. QUANTITIES ARE APPROXIMATE ONLY AND INTENDED AS A GUIDE FOR ESTIMATING PURPOSES. THE CONTRACTOR IS RESPONSIBLE FOR PROVIDING HIS OWN QUANTITY TAKE OFFS. THE OWNER DOES NOT VERIFY ANY CUT/FILL QUANTITIES IF SHOWN ON THE PLANS.		31. ALL WORK DONE UNDER THIS CONTRACT SHALL BE DONE TO THE SATISFACTION OF THE OWNER AND ENGINEER. THE OWNER AND ENGINEER SHALL MAKE DECISIONS REGARDING QUESTIONS THAT MAY ARISE WITH RESPECT TO THE MEANING OF THE PLANS AND SPECIFICATIONS. THE OWNER'S AND ENGINEER'S DETERMINATIONS AND DECISIONS THEREON SHALL BE FINAL AND CONCLUSIVE.
4. ANY DIFFERENCES BETWEEN PLANS AND SPECIFICATIONS AND QUESTIONS REGARDING INTERPRETATIONS OF PLANS AND SPECIFICATIONS SHALL BE RESOLVED BY THE ENGINEER OR OWNER. THE CONTRACTOR WILL NOT BE PERMITTED TO TAKE ADVANTAGE OF ANY ERRORS OR OMISSIONS IN THE PLANS AND SPECIFICATIONS. THE GENERAL INTENT AND MEANING WILL GOVERN. THE ENGINEER OR OWNER WILL PROVIDE FULL INSTRUCTIONS WHEN CHANGED CONDITIONS, ERRORS OR OMISSIONS ARE DISCOVERED BY THE CONTRACTOR.	D. BARRICADING AND TRAFFIC CONTROL AS REQUIRED.		32. THE CONTRACTOR OR SUBCONTRACTORS SHALL NOT DEVIATE FROM THESE PLANS OR MAKE FIELD CHANGES WITHOUT NOTIFYING IN WRITING, THE OWNER AND ENGINEER REQUESTING APPROVAL OF THESE MODIFICATIONS. ANY CHANGES MADE WITHOUT EXPRESS WRITTEN APPROVAL OF THE OWNER AND ENGINEER ARE SUBJECT TO REMOVAL AT THE EXPENSE OF THE CONTRACTOR OR SUBCONTRACTOR.		
5. THE CONTRACTOR IS REQUIRED TO TAKE DUE PRECAUTIONARY MEASURES TO PROTECT THE UTILITY LINES SHOWN AND ANY OTHER LINES NOT OF RECORD OR NOT SHOWN ON THESE PLANS. THE CONTRACTOR SHALL BE RESPONSIBLE FOR NOTIFYING "GSOC" AT (1-800-252-1166) TWO WORKING DAYS PRIOR TO ANY EXCAVATION OR CONSTRUCTION.	17. ALL REVISIONS TO THE APPROVED CONSTRUCTION DRAWINGS AND SPECIFICATIONS MUST BE APPROVED BY THE OWNER PRIOR TO CONSTRUCTION. ANY UNAPPROVED REVISIONS ARE SUBJECT TO REMOVAL AND/OR REPLACEMENT AT THE CONTRACTOR'S EXPENSE.	33. THE 2360 PLANT MIXED ASPHALT PAVEMENT COMBINED 2360/2350 (GYRATORY/MARSHALL DESIGN) SPECIFICATION FOR 2012 CONSTRUCTION SEASON SHALL APPLY. BITUMINOUS MIX QUANTITIES BASED ON 115 LBS / SY-IN. (AVAILABLE AT: http://www.mrr.dot.state.mn.us/pavement/bituminous/bituminous.asp)	34. ALL CONSTRUCTION REMOVAL ITEMS SHALL BE DISPOSED OF AT AN APPROVED WASTE SITE.		
6. ALTHOUGH SUCH WORK MAY NOT BE SPECIFICALLY NOTED ON THESE PLANS. CONTRACTOR SHALL FURNISH AND INSTALL ALL SUPPLEMENTARY OR MISCELLANEOUS FITTINGS, APPURTENANCES AND DEVICES INCIDENTAL TO OR NECESSARY FOR A SOUND, SECURE AND COMPLETE INSTALLATION.	18. THE QUANTITIES AND SITE CONDITIONS DEPICTED IN THESE PLANS ARE FOR INFORMATIONAL PURPOSES ONLY AND ARE SUBJECT TO ERROR AND OMISSION. CONTRACTORS SHALL SATISFY THEMSELVES AS TO ACTUAL QUANTITIES AND SITE CONDITIONS PRIOR TO BIDDING THE WORK FOR THE CONSTRUCTION COVERED BY THESE PLANS.	34. ALL CONSTRUCTION REMOVAL ITEMS SHALL BE DISPOSED OF AT AN APPROVED WASTE SITE.	35. CONTRACTOR IS REQUIRED TO POSSESS & FOLLOW THE GOVERNING SPECIFICATIONS REFERENCED IN THIS PLAN.		
7. ALL CONCRETE STRUCTURES SHALL CONFORM TO SPEC 2461 STRUCTURAL CONCRETE OF MINNESOTA MATERIALS LAB SUPPLEMENTAL SPECIFICATIONS FOR CONSTRUCTION CURRENT EDITION CONCURRENT WITH THE PERMIT DATE.. (AVAILABLE AT: http://www.dot.state.mn.us/pre-letting/spec/2014/2014-Materials-Lab-Supplement.pdf)	19. A REASONABLE EFFORT HAS BEEN MADE TO SHOW THE LOCATIONS OF EXISTING UNDERGROUND FACILITIES AND UTILITIES IN THE CONSTRUCTION AREA. THE CONTRACTOR IS RESPONSIBLE FOR ANY DAMAGE TO UTILITIES AND/OR FACILITIES CAUSED DURING THEIR CONSTRUCTION OPERATIONS. CONTRACTOR SHALL CALL "GSOC" AT (1-800-252-1166) PRIOR TO ANY EXCAVATION.	TRAFFIC CONTROL			
8. ALL CONCRETE CURB SHALL CONFORM TO SPEC 2531 CONCRETE CURBING OF MINNESOTA MATERIALS LAB SUPPLEMENTAL SPECIFICATIONS FOR CONSTRUCTION CURRENT EDITION CONCURRENT WITH THE PERMIT DATE. (AVAILABLE AT: http://www.dot.state.mn.us/pre-letting/spec/2014/2014-Materials-Lab-Supplement.pdf)	20. THE CONTRACTOR IS RESPONSIBLE FOR ALL COORDINATION OF CONSTRUCTION AFFECTING UTILITIES AND THE COORDINATION OF ANY NECESSARY UTILITY RELOCATION WORK.	1. THE WORK UNDER THIS SECTION SHALL BE IN ACCORDANCE WITH THE REFERENCED MANUAL OF UNIFORM TRAFFIC CONTROL DEVICES (MUTCD) SHALL BE CONSIDERED A MINIMUM STANDARD FOR THE PROTECTION OF WORKMEN AND THE TRAVELING PUBLIC.			
9. EQUIPMENT OR MATERIALS SPECIFIED IN THESE PLANS HAVE BEEN SPECIFIED BECAUSE THEY MEET THE PARAMETERS NEEDED TO PERFORM A CERTAIN FUNCTION. THERE MAY BE OTHER MANUFACTURERS OF SIMILAR EQUIPMENT OR MATERIALS THAT CAN BE USED IN LIEU OF THE ONES SPECIFIED HEREIN. ANY MODIFICATIONS TO SAID EQUIPMENT OR MATERIALS NEED TO BE APPROVED IN WRITING BY THE ENGINEER PRIOR TO THEIR BEING CONSIDERED FOR USE.	21. THESE PLANS ARE SUBJECT TO THE INTERPRETATION OF INTENT BY THE ENGINEER. ALL QUESTIONS REGARDING THESE PLANS SHALL BE PRESENTED TO THE ENGINEER. ANYONE WHO TAKES UPON THEMSELVES THE INTERPRETATION OF THE DRAWINGS OR MAKES REVISIONS TO THEM WITHOUT CONFERRING WITH THE DESIGN ENGINEER SHALL BE RESPONSIBLE FOR THE CONSEQUENCES THEREOF.	2. PRIOR TO THE COMMENCEMENT OF ANY CONSTRUCTION OPERATIONS BY THE CONTRACTOR, A TRAFFIC CONTROL PLAN SHALL BE SUBMITTED TO THE ENGINEER FOR APPROVAL. THE TRAFFIC CONTROL PLAN SHALL BE SUBMITTED A MINIMUM OF 2 WEEKS PRIOR TO THE BEGINNING OF CONSTRUCTION AND MAY INCLUDE FURNISHING, INSTALLING, MAINTAINING, MOVING AND REMOVING BARRICADES, WARNING SIGNS, LIGHTS, SIGNALS, CONES, AND ALL OTHER TRAFFIC CONTROL DEVICES, FLAGGING SERVICES AND PILOT TRUCKS, TO PROVIDE SAFE AND EFFICIENT PASSAGE THROUGH AND/OR AROUND THE WORK AREA. ADDITIONALLY, THE TRAFFIC CONTROL PLAN SHALL PROVIDE FOR MOVEMENT OF PEDESTRIAN AND VEHICULAR TRAFFIC THROUGH CONSTRUCTION ZONES AND PROTECT WORKMEN IN OR ADJACENT TO THE WORK ZONE. IT SHALL ALSO SPECIFICALLY AND GRAPHICALLY IDENTIFY A PROPOSED SEQUENCE OF OPERATIONS AND A COMPATIBLE METHOD OF MAINTAINING TRAFFIC. NO DETOURS SHALL BE OPENED TO TRAFFIC UNTIL APPROVED BY THE GOVERNING AUTHORITY OR ITS AUTHORIZED REPRESENTATIVE.			
10. BY SUBMISSION OF HIS BID PROPOSAL THE CONTRACTOR ACKNOWLEDGES THAT HE\SHE HAS THOROUGHLY EXAMINED THE LOCATION OF THE WORK TO BE PERFORMED, IS FAMILIAR WITH LOCAL CONDITIONS, AND HAS THE RESOURCES TO LAYOUT AND CONSTRUCT THESE PLANS.	22. NOTHING CONTAINED IN THE CONTRACT DOCUMENTS SHALL CREATE, NOR SHALL BE CONSTRUED TO CREATE ANY CONTRACTUAL RELATIONSHIP BETWEEN THE ENGINEER AND THE CONTRACTOR OR ANY SUBCONTRACTOR.	3. VEHICULAR ACCESS SHALL BE MAINTAINED TO ALL DRIVEWAYS AND SIDE STREETS AT ALL POSSIBLE TIMES. WHEN ACCESS MUST BE RESTRICTED TO ONE LANE FOR CONSTRUCTION, THE CONTRACTOR SHALL GIVE WRITTEN NOTICE TO EACH AFFECTED RESIDENT NOT LESS THAN 72 HOURS IN ADVANCE.			
11. THE CONTRACTOR SHALL PRESERVE AND PROTECT ALL SURVEY CONTROL STAKES SET FOR LINE, GRADE, OR CONTROL IN THEIR ORIGINAL LOCATIONS. ANY EXPENSES INCURRED IN REPLACING ANY SUCH SURVEY STAKES WHICH THE CONTRACTOR OR HIS SUBCONTRACTORS MAY HAVE FAILED TO PRESERVE SHALL BE THE FINANCIAL RESPONSIBILITY OF THE CONTRACTOR.	23. THE ENGINEER SHALL NOT BE RESPONSIBLE FOR CONSTRUCTION MEANS, METHODS, TECHNIQUES, SEQUENCES OR PROCEDURES OR SAFETY PRECAUTIONS OR PROGRAMS UTILIZED IN CONNECTION WITH THE WORK. THE ENGINEER WILL NOT BE RESPONSIBLE FOR THE CONTRACTOR'S FAILURE TO CARRY OUT THE WORK IN ACCORDANCE WITH THE CONTRACT DOCUMENTS.				
12. THE CONTRACTOR IS RESPONSIBLE FOR UNCOVERING ALL EXISTING UTILITY LINES BEING CONNECTED TO BY VIRTUE OF THESE PLANS. HE\SHE SHALL BE RESPONSIBLE FOR VERIFYING THEIR ELEVATION AND LOCATION. THE CONTRACTOR IS ALSO RESPONSIBLE FOR PROTECTING ALL UTILITIES WHETHER BEING CONNECTED TO OR NOT.	24. PRIOR TO BIDDING THE WORK, THE CONTRACTOR SHALL THOROUGHLY SATISFY HIMSELF AS TO THE ACTUAL CONDITIONS, EARTHWORK QUANTITIES AND REQUIREMENTS OF WORK AND EXCESS OR DEFICIENCY IN EARTHWORK QUANTITIES, IF ANY. NO CLAIM SHALL BE MADE AGAINST THE OWNER/DEVELOPER OR ENGINEER FOR ANY EXCESS OR DEFICIENCY THEREIN, ACTUAL OR RELATIVE.				
13. ALL WORKMANSHIP AND MATERIALS THROUGHOUT THE JOB SHALL BE OF THE HIGHEST QUALITY. ALL MATERIALS SHALL BE NEW, UNLESS APPROVED BY THE ENGINEER.	25. ALL MATERIALS ARE TO BE INSTALLED IN ACCORDANCE WITH MANUFACTURES RECOMMENDATIONS UNLESS OTHERWISE DIRECTED BY THE PROJECT SPECIFICATIONS.				
14. CONTRACTOR SHALL AT ALL TIMES COORDINATE WORK WITH OTHER CONTRACTORS INVOLVED WITH ONGOING CONSTRUCTION OF THIS PROJECT.	26. ALL PAVING AND GRADING CONSTRUCTION WORK WITHIN THE PUBLIC RIGHT OF WAY, ON PRIVATE STREETS, ACCESS WAYS, PARKING AREAS, EASEMENTS AND LOT GRADING SHALL CONFORM TO THE GOVERNING MUNICIPALITY MINIMUM STANDARDS AND SPECIFICATIONS, MINNESOTA DEPARTMENT OF TRANSPORTATION STANDARD PLATES WILL CONTINUE TO APPLY WHERE NOT ADOPTED OR INCLUDED BY THE GOVERNING MUNICIPALITY. THE REFERENCE DOCUMENTS AND SPECIFICATIONS INCLUDED WITHIN THIS PLAN ARE HEREBY MADE A PART OF THE CONTRACT DOCUMENTS AND PROJECTS MANUAL. WHERE THERE IS A CONFLICT BETWEEN THESE NOTES AND THE PROJECT MANUAL, THE MORE STRINGENT OF THE REQUIREMENTS SHALL GOVERN UNLESS PRIOR CLARIFICATION FROM THE DESIGN ENGINEER HAS BEEN GIVEN IN WRITING TO THE CONTRACTOR.				
15. ALL WORK AND MATERIALS WHICH DO NOT CONFORM TO THE SPECIFICATIONS AND /					

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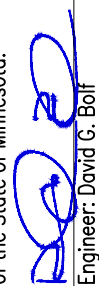
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ADDENDUM #1
5-22-15

GENERAL
NOTES

Sheet Number
C3.0

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APPROVALS	
1.	THE CONTRACTOR IS TO USE THE OFFICIAL CONSTRUCTION SET OF PLANS AND DRAWINGS FOR CONSTRUCTION. IT IS THE CONTRACTORS DUTY TO ACQUIRE AN OFFICIAL SET OF APPROVED PLANS AND SHALL HAVE A SET OF THESE PLANS WITH HIM/HER ON SITE AT ALL TIMES DURING THE DURATION OF THIS PROJECT.
INSPECTION	
1.	ALL MATERIALS USED AND ALL WORK DONE BY THE CONTRACTOR SHALL BE SUBJECT AT ALL TIMES TO THE INSPECTION, TESTING, AND APPROVAL OF THE OWNER OR HIS REPRESENTATIVE AND THE ENGINEER.
2.	THE OWNER OR HIS REPRESENTATIVE WILL MAKE PERIODIC INSPECTIONS OF THE DIFFERENT PHASES OF THE SITE WORK.
3.	THE CONTRACTOR SHALL CONTACT THE APPROPRIATE PUBLIC UTILITY COMPANIES FOR COORDINATION AND INSPECTION OF TRENCHING, BEDDING AND BACKFILLING DONE IN CONJUNCTION WITH THE INSTALLATION OF THOSE UTILITIES ASSOCIATED WITH THIS PROJECT
UTILITIES	
1.	ALL SANITARY SEWER CONSTRUCTION SHALL BE IN ACCORDANCE WITH 2503 PIPE SEWER SPEC OF THE CITY OF DULUTH, MINNESOTA CONSTRUCTION STANDARDS (AVAILABLE AT: http://www.duluthmn.gov/engineering/spec_book/PDFs/2013%20Standard%20Construction%20Specifications.pdf)
2.	ALL WATERLINE CONSTRUCTION SHALL BE IN ACCORDANCE WITH 2504 WATER MAIN AND SERVICE LINE INSTALLATION SPEC OF THE CITY OF DULUTH, MINNESOTA CONSTRUCTION STANDARDS (AVAILABLE AT: http://www.duluthmn.gov/engineering/spec_book/PDFs/2013%20Standard%20Construction%20Specifications.pdf)
3.	ALL GAS LINE CONSTRUCTION SHALL BE IN ACCORDANCE WITH 2505 GAS MAIN SPEC OF THE CITY OF DULUTH, MINNESOTA CONSTRUCTION STANDARDS. (AVAILABLE AT: http://www.duluthmn.gov/engineering/spec_book/PDFs/2013%20Standard%20Construction%20Specifications.pdf)
4.	UTILITIES IF INDICATED ON PLANS ARE APPROXIMATE LOCATIONS ONLY, TAKEN FROM THE UTILITY COMPANY MAPS. IF THE CONTRACTOR ENCOUNTERS ANY LINES OR TAPS NOT INDICATED ON THE DRAWINGS, MARKED IN THE FIELD BY THE UTILITY COMPANY OR OTHERS THAT MAY INTERFERE WITH HIS WORK, HE/SHE SHALL NOTIFY THE APPROPRIATE UTILITY COMPANY IMMEDIATELY FOR DISPOSITION OF THOSE FACILITIES. IT IS THE CONTRACTOR'S RESPONSIBILITY TO VERIFY THE EXACT LOCATIONS OF ALL PUBLIC AND PRIVATE UTILITY LINES IN THE AREA OF WORK.
FIELD ENGINEERING:	
1.	THE CONTRACTOR SHALL CAREFULLY PRESERVE ALL STAKES, REFERENCE AND CONTROL POINTS, ETC. AGAINST DESTRUCTION AND SHALL PROMPTLY NOTIFY HIS ENGINEER/SURVEYOR OF ANY STAKES WHICH HAVE BEEN DISTURBED. IN CASE OF RESTAKING DUE TO TIMING LAG CAUSED BY THE CONTRACTOR'S WILLFUL OR CARELESS DESTRUCTION, THE CONTRACTOR MAY BE CHARGED BY THE OWNER WITH THE RESULTING EXPENSE FOR THE RESTAKING.
2.	ENGINEER/SURVEYOR SHALL BE NOTIFIED TWO WORKING DAYS (48 HOURS) MINIMUM PRIOR TO THE FIELD STAKING SCHEDULING. CITY WILL PROVIDE TWO CONTROL POINTS, ONE AT EACH END OF THE PROJECT.
3.	ANY QUESTIONS RAISED RELATIVE TO THE ACCURACY OF IMPROVEMENT INSTALLATION SHALL NOT BE RAISED SUBSEQUENT TO COMPLETION OF THE WORK UNLESS ALL SURVEY STAKES ARE MAINTAINED INTACT. SHOULD SUCH STAKES NOT BE PRESENT AND VERIFIED AS TO THEIR ORIGIN, NO CLAIM FOR ADDITIONAL COMPENSATION FOR CORRECTION SHALL BE PRESENTED TO ANY PARTY AND SUCH WORK SHALL BE CORRECTED BY THE CONTRACTOR AT HIS EXPENSE.
4.	ALL CONSTRUCTION STAKING FOR GRADE, ALIGNMENT AND CONTROLS SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR AS SPECIFIED BELOW.
5.	THE CONTRACTOR'S ENGINEER/SURVEYOR AND THE DESIGN ENGINEER CANNOT GUARANTEE THE ACCURACY OF CONSTRUCTION STAKES FOR GRADE OR ALIGNMENT AFTER THE SURVEY CREW HAS LEFT THE SITE DUE TO VANDALISM AND CONSTRUCTION OPERATIONS. IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO REVIEW IN THE FIELD ALL CONSTRUCTION STAKING DONE PRIOR TO BEGINNING THE PLACEMENT OF FORMS OR BEGINNING CONSTRUCTION FOR THAT PHASE OF THE WORK. THE CONTRACTOR SHALL NOTIFY HIS ENGINEER/SURVEYOR IMMEDIATELY FOR VERIFICATION OF GRADE AND ALIGNMENT SHOULD A PROBLEM ARISE IN THE FIELD. IT WILL BE THE CONTRACTOR'S RESPONSIBILITY TO PROVIDE COMPENSATION TO HIS ENGINEER/SURVEYOR FOR PRECHECKS AND RESTAKING.

LEGEND									
DESCRIPTION	NEW	EXISTING	REMOVAL	FUTURE	DESCRIPTION	NEW	EXISTING	REMOVAL	FUTURE
SITE PROPERTY LINE					VALVE WITH CURB STOP				
RIGHT OF WAY					METER				
EASEMENT					RISER				
LOT LINE					JUNCTION BOX				
SECTION LINE					REGULATOR				
CONTROL POINT					REDUCE PRESSURE ZONE				
SOIL BORING					UTILITY BOX				
CALCULATED CORNER					UTILITY POLE / GUY WIRE				
MONUMENT WITHOUT CAP					AIR RELEASE VALVE WITH CURB STOP				
MONUMENT WITH CAP					BLOW OFF VALVE WITH CURB STOP				
CENTERLINE					MONITORING WELL				
CURB & GUTTER					WELL				
BITUMINOUS PAVEMENT					FIRE HYDRANT				
BITUMINOUS SAWCUT					SANITARY SEWER LINE				
CONCRETE PAVEMENT					STORM SEWER LINE				
CONCRETE SAWCUT					WATER LINE				
PAVERS					GAS LINE				
CONCRETE SIDEWALK					ELECTRICAL LINE				
CONCRETE STAIRS					FIBER OPTIC LINE				
BUILDING					TELECOMMUNICATION LINE				
WALL					LEGEND NOTES: 1. THIS LEGEND IS INTENDED TO COVER ALL SYMBOLS AND LINETYPES USED BY NORTHLAND CONSULTING ENGINEERS. 2. THIS LEGEND MAY CONTAIN SYMBOLS AND LINETYPES THAT ARE NOT SHOWN ON THE PLAN. 3. SHEET NOTES AND DESCRIPTIONS GOVERN OVER ALL LEGEND DESCRIPTIONS.				
FENCE	CHAIN LINK	CHAIN LINK	CHAIN LINK						
	BARB WIRE	BARB WIRE	BARB WIRE						
	WOOD	WOOD	WOOD						
GUARD RAIL									
STRIPING SINGE WHITE									
STRIPING DOUBLE YELLOW									
SIGN									
MAJOR CONTOUR									
MINOR CONTOUR									
FLOW LINE									
FLOW ARROW									
HIGH POINT									
LOW POINT									
GRADE BREAK									
TOP									
TOE									
CUT									
FILL									
VEGETATION / TREE LINE									
SILT FENCE									
SOCK									
RIP-RAP									
GRAVEL / ROCK									
FILTER FABRIC									
EROSION CONTROL BLANKET									
SOD									
WETLAND									
CONIFER TREE									
DECIDUOUS TREE									
SANITARY SEWER MANHOLE									
STORM SEWER MANHOLE									
WATER MANHOLE									
GAS MANHOLE									
ELECTRIC MANHOLE									
TELECOMMUNICATION MANHOLE									
FIBER OPTIC MANHOLE									
CATCH BASIN									
CLEANOUT WITH CURB STOP									
YARD DRAIN									
APRON									
CAP									



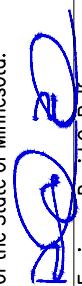
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RETAINING WALL
1720 NEW STREET, DULUTH, MN

I hereby certify that this plan, specification, or report was prepared by me or under my direct supervision and that I am a duly licensed Professional Engineer under the laws of the State of Minnesota.



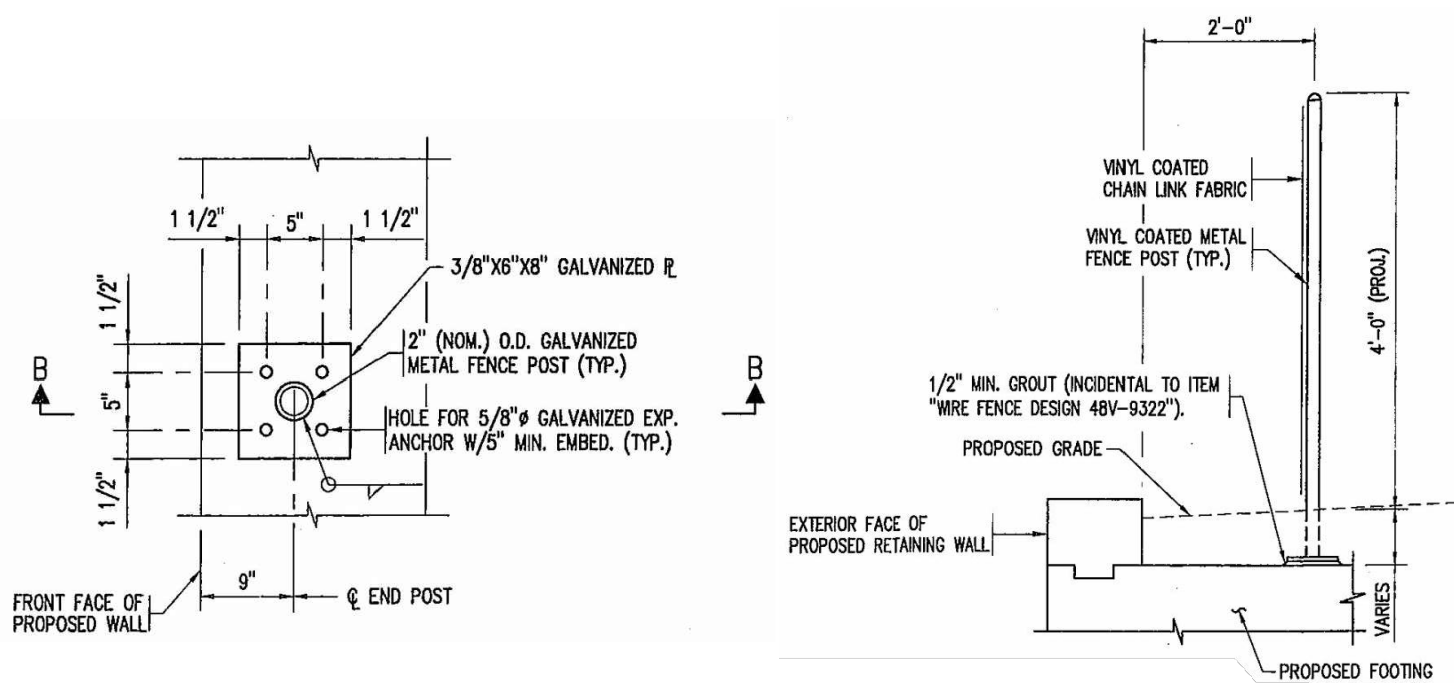
May 22, 2015
Lic. No: 40926
Engineer: David G. Bolf

Project#: 14-265
Date: 05/22/15
Drawn By: TTP
Checked By: DGB

ADDENDUM #1
5-22-15

GENERAL
NOTES

Sheet Number
C4.0



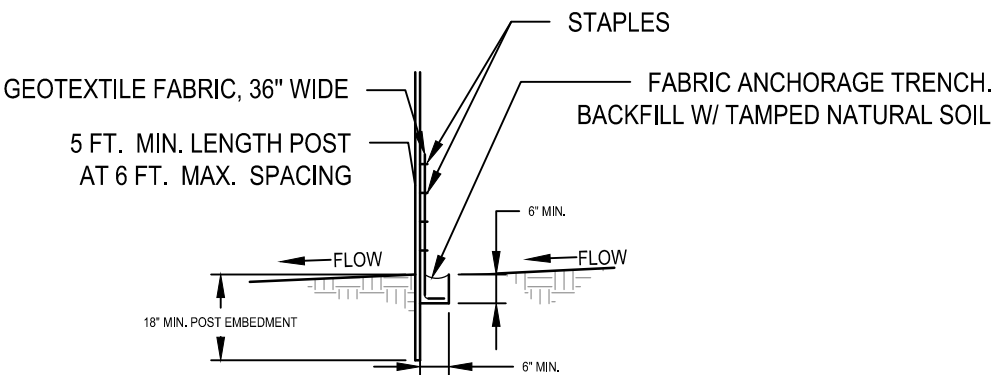
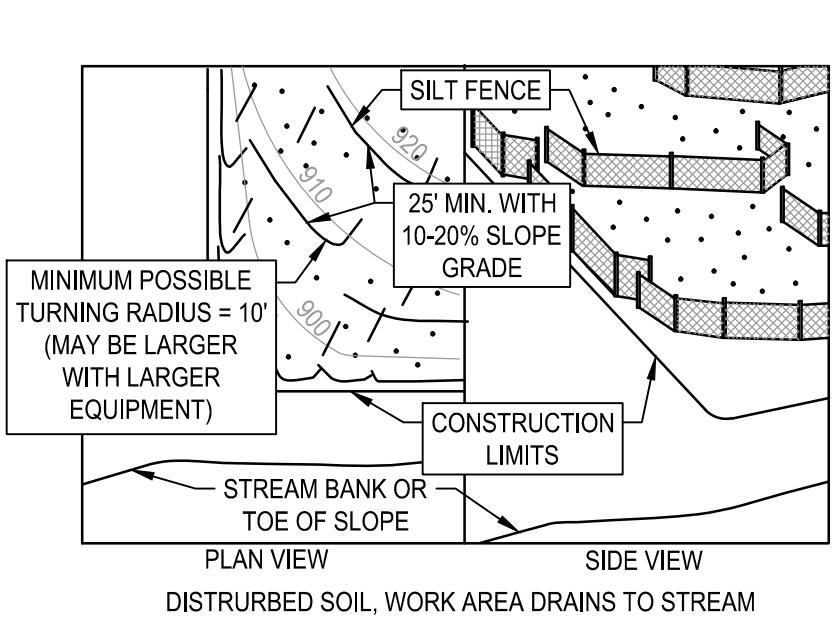
VINYL COATED CHAIN LINK FENCE DETAIL

CHAIN LINK FENCE NOTES:
-STRUCTURAL STEEL PER MNDOT SPEC. 3306
-STRUCTURAL PIPE PER MNDOT SPEC. 3362
-GALVANIZE THE FENCE POST ANCHORAGE AFTER FABRICATION PER MNDOT SPEC. 3394. GALVANIZE THE FASTENERS PER MNDOT SPEC. 3392.

CHAIN LINK FENCE DETAILS:
FENCE SHALL BE PROVIDED AND INSTALLED ACCORDING TO STANDARD PLATE 9322K WITH THE FOLLOWING EXCEPTIONS:

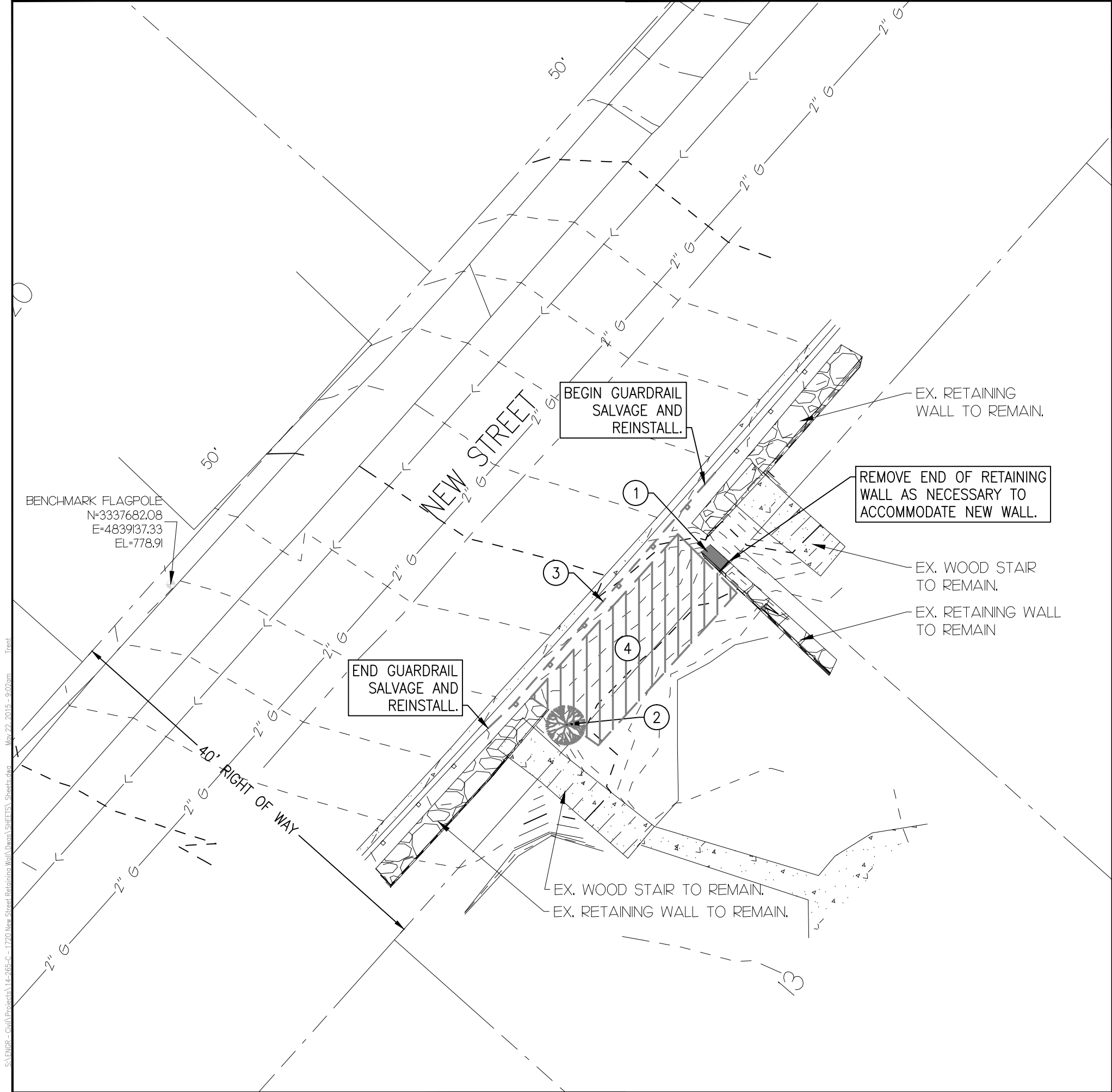
1. ALL END POSTS AND INTERMEDIATE LINE POSTS SHALL BE 2" NOM. DIAMETER AS DETAILED AND NOTED ABOVE.
2. ALL FENCE COMPONENTS EXCEPT BASE PLATE AND PIPE SLEEVE ANCHORS SHALL BE BLACK, VINYL COATED.

PAYMENT FOR FURNISHING AND INSTALLING FENCES AS DETAILED AND NOTED ABOVE SHALL BE INCLUDED IN PRICE BID FOR ITEM "WIRE FENCE DESIGN 48V-9322".

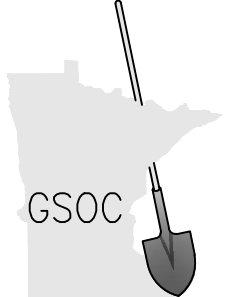
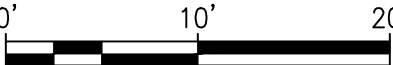
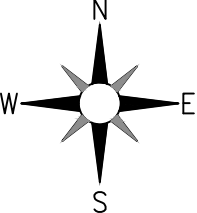


SILT FENCE, PREASSEMBLED
DESIGN GUIDELINES:
TO PROTECT AREAS FROM SHEET FLOW. MAXIMUM CONTRIBUTING AREA:
1 ACRE.

SILT FENCE INSTALLATION



EXISTING CONDITIONS & REMOVALS PLAN NOTES	
①	 REMOVE RETAINING WALL.
②	 CLEAR AND GRUB TREE.
③	 SALVAGE AND RE-INSTALL GUARDRAIL.
④	 REMOVE ALL DEBRIS FROM RETAINING WALL FAILURE.



MN. TOLL FREE 1-800-252-1166

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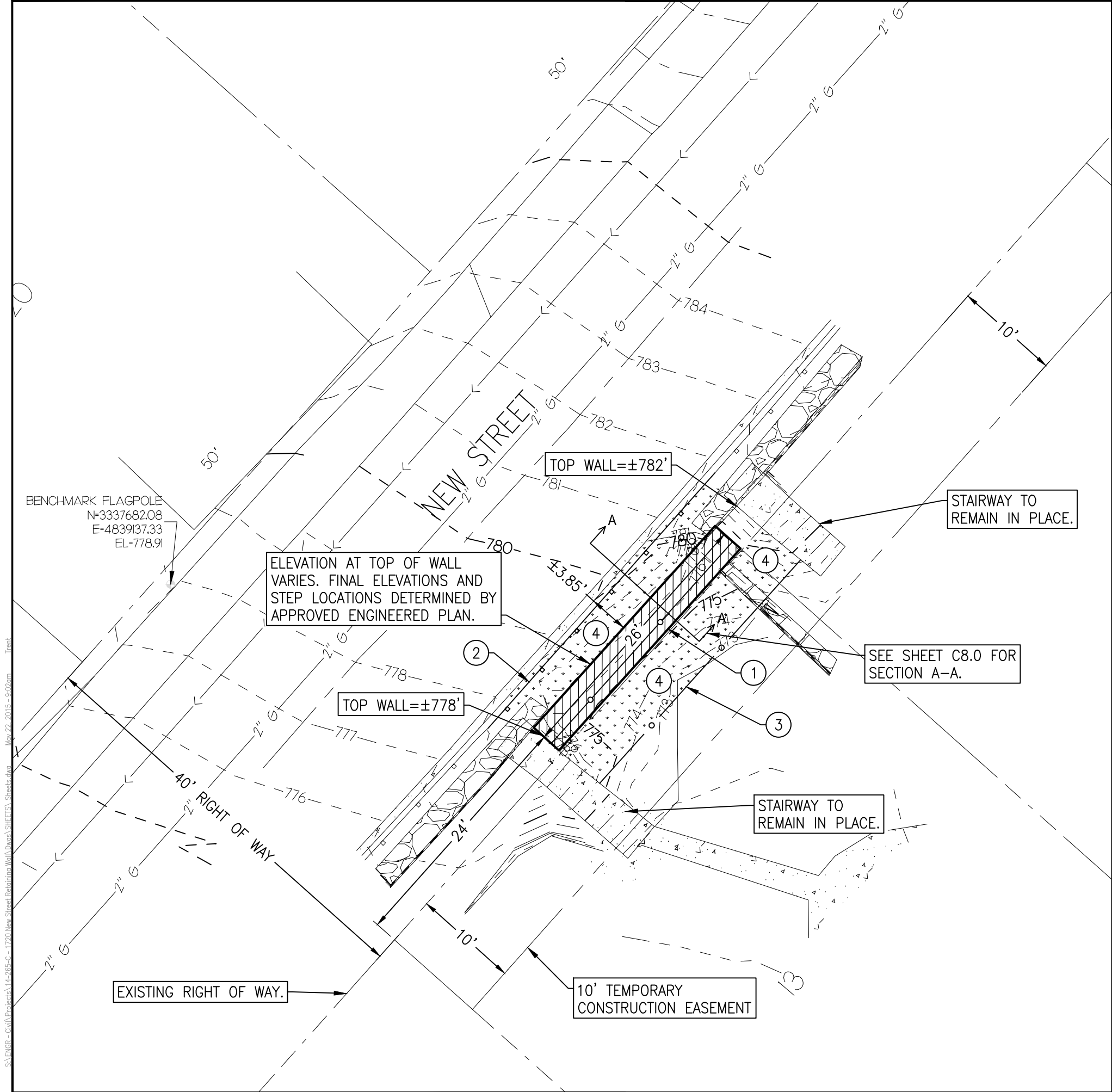
Project#: 14-265
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ADDENDUM #1
1 5-22-15

REMOVALS
PLAN

Sheet Number
C6.0

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SITE & GRADING PLAN NOTES	
①	CONSTRUCT NON-REINFORCED GRAVITY RETAINING WALL WITH VINYL COATED CHAIN LINK FENCE. SEE SECTION A-A ON SHEET C8.0.
②	REINSTALL SALVAGED GUARD RAIL.
③	INSTALL SILT FENCE PER DETAIL ON SHEET C5.0.
④	PLACE 4" TOPSOIL AND SOD ALL DISTURBED AREAS.

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Northland
Consulting Engineers L.L.P.
Structural, Civil and Forensic Engineering Services
Voice: (218) 727-5995
Fax: (218) 727-7779
www.nce-engineers.com

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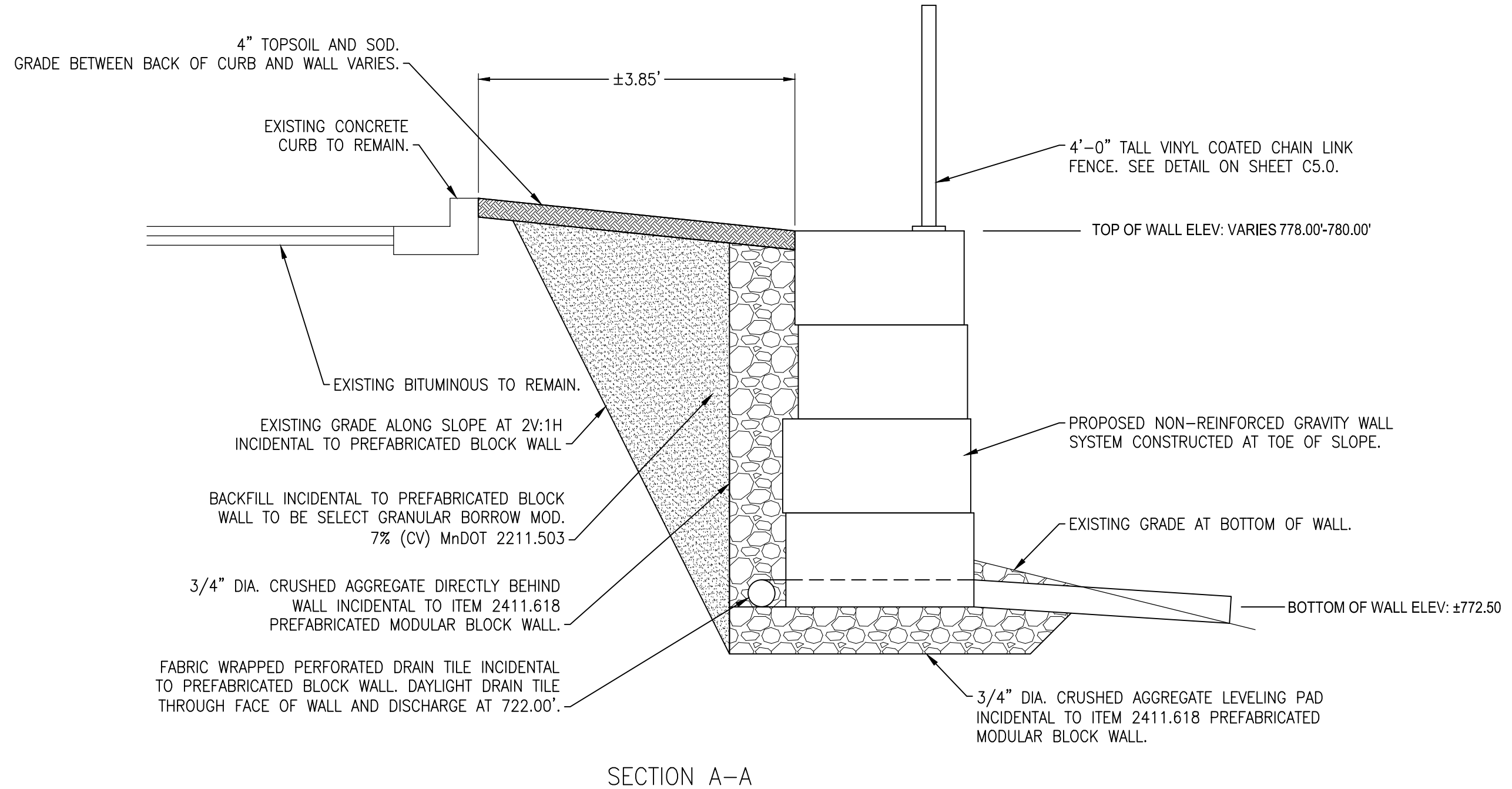
Project#: 14-265
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1 5-22-15

SITE & GRADING PLAN

Sheet Number
C7.0

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RETAINING
WALL SECTION

Sheet Number

C8.0