CITY OF DULUTH

7th Avenue East Flood Damage Reconstruction

CONSTRUCTION PLANS FOR: EXISTING STREET REPAIR
BITUMINOUS SURFACING, AGGREGATE BASE, CURB & GUTTER AND SIDEWALK.

GROSS LENGTH: 1010 FEET 0.190 MI LS
BRIDGE LENGTH: 0.00 FEET 0.000 MILES
EXCEPTION LENGTH: 0.00 FEET 0.000 MILES
NET LENGTH: 1000 FEET 0.190 MILES

LOCATED ON: 7th AVENUE EAST BETWEEN 4th STREET AND ONE BLOCK BELOW 1st STREET

INDEX MAP

PROJECT LOCATION
ST. LOUIS COUNTY
CITY OF DULUTH
51/2 OF SECTION 23
T 50 NORTH, R 14 WEST

BENCHMARKS
TOP OF HYDRANT SOUTH
CORNER OF SEVENTH AVENUE
EAST & 2nd STREET.
ELEVATION = 725.57

Gopher of State One Call
454-0002
1-800-252-1166

UNDERLINE DRAFTSMAN: DOUGLAS KERKLEF
PROJECT ENGINEER:

APPROVED: DAVID W. KERKLEF
CONTRACTOR TO NOTIFY 911 PERSONNEL PRIOR TO ALL ROAD CLOSURES.

THE SUBSURFACE UTILITY INFORMATION IN THIS PLAN IS UTILITY QUALITY LEVEL "D". THIS QUALITY LEVEL WAS DETERMINED ACCORDING TO THE GUIDELINES OF ACE/SE 38-02. ENTRIES STANDARDS GUIDELINES FOR THE COLLECTION AND DEPICTION OF EXISTING SUBSURFACE UTILITY DATA.

City of Duluth Proj. No. 1168

SALO ENGINEERING, INC.
404 Henry St.
Duluth, Minnesota 55802-1249

DESIGNER DRAFTSMAN: DOUGLAS KERKLEF
PROJECT ENGINEER:

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**CONSTRUCTION NOTES:**
1. Item to be used to clean & remove flood debris on existing roadway surface that will not be reconstructed.
2. Based on a 2' deep excavation at pavement removal areas.
3. Item to be used to fill washout areas outside road surface.
4. Item to be used to clean structure at STA: 3+27 - 14' left all material to be hauled off site and disposed of properly.
5. Item to be used to clean storm sewer pipe between structure at 3+27 - 14' L and next down stream structure approximately 37 LF. All material to be hauled off site and disposed of properly.
6. Item to be used to adjust castings within pavement and curb & gutter removal areas.
7. Aggregate base, class 5 base material to be incidental to item.
8. Contractor to provide traffic control including, but not limited advanced warning to construction areas, detour when roadway is closed to traffic, and any other control devices to meet MnDOT Field Manual requirements.
9. Item to be used on all inlet structures within the project as well as next down stream inlet structure.
10. Item to be used as directed by engineer to control sediment & storm water during construction.
4' TOPSOIL AND SOC, DISTANCE VARIES
4" CONCRETE WALK
4" AGGREGATE BASE CLASS 5 (INCIDENTAL) SPEC 2211

SELECT MATERIAL FROM COMMON BORROW (INCIDENTAL)

B624 CURB AND GUTTER (SPEC 2851)
GEOTEXTILE FABRIC TYPE V NON-WOVEN, LAID ON COMPACTED SUBGRADE, EXCAVATION LIMITS WIDTH (INCIDENTAL) COARSE FILTER AGGREGATE SPEC 3149.2H (INCIDENTAL)
4" PERFORATED PVC PIPE DRAIN, SPEC 2502

12" SELECT GRANULAR BORROW (CV) SPEC 2105 (MODIFIED 7%)
8-1/2" AGGREGATE BASE (CV) CL5 (SPEC 2211)
2" TYPE SP 12.5 NON-WEARING COURSE MIX (SPNW3303C)
1-1/2" TYPE SP 9.5 WEARING COURSE MIX (SPWEA3405C)

TYPICAL SECTION
URBAN STREET WITH SIDEWALKS

BASIS FOR PLANNED QUANTITIES
PLANT MIXED BITUMINOUS SURFACE
TYPE SP 12.5 BITUMINOUS MIXTURE 120 LBS./S.Y./1'
TYPE SP 9.5 BITUMINOUS MIXTURE 120 LBS./S.Y./1'

"THESE STANDARD PLATES AS APPROVED BY THE F.M.A.A. SHALL APPLY"

PLATE NO.  STANDARD PLATES
4440R1  MINIPOLE OR CATCH BASH COVER
4120R1  FRAME CASTING NO. 290A
4150R1  GRATE CASTING FOR CATCH BASINS
7100R1  CONCRETE CURB & GUTTER R404
9102R2  TURF ESTABLISHMENT AREAS

NOT APPROVED BY F.M.A.A.

CITY OF DULUTH PLATES
STRA-1  DRIVEWAY AND ALLEY ENTRANCE
STRA-3  CONCRETE RETAINING WALL
STRA-3  STREET RESTORATION OVER TRENCH

STRA-1  STORM MANHOLE CASTING
STRA-2  CATCH BASH/LURIB BOX CASTING
STRA-3  CATCH BASH CASTING
STRA-4  FABRIC WRAPPED CATCH BASH CASTING
STRA-5  FABRIC WRAPPED MANHOLE CASTING