

**AGREEMENT FOR MAINTENANCE OR OTHER ROADSIDE LANDSCAPING
WITHIN MILWAUKEE COUNTY TRUNK HIGHWAY (CTH) RIGHT-OF-WAY
AGREEMENT NO. 2019PP1**

The Milwaukee County Department of Transportation (MCDOT), in order to clearly define responsibilities for certain actions within County Highway right-of-way, herewith enters into an agreement with the City of Milwaukee, hereinafter designated as the "City", to perform the following actions within the limits of the right-of-way of the County Trunk Highway now designated as CTH PP West Good Hope Road, from approximately N. 87th St. to N. 51st St, in the City of Milwaukee, Milwaukee County, Wisconsin:

- Install, own and maintain bioswales and associated facilities (storm sewer connections, drains, plantings, etc.) in the medians as shown on the approved and attached 2018 approved plans for City of Milwaukee Plan File No. 251-4A through 251-14A and File No. 252-3 through 252-4, CTH PP West Good Hope Road, from approximately N. 87th St. to N. 51st St.

NOTE: A separate "Permit for Work or Encroachment within County Highway R.O.W." will be required before starting work. Submit a plan of precise description of the work with the permit application.

The agreement shall be subject to the following provisions and conditions:

1. The work will be performed as part of the City of Milwaukee Plan File No. 251-4A through 251-14A and File No. 252-3 through 252-4, CTH PP West Good Hope Road, from approximately N. 87th St. to N. 51st St (plans attached). A MCDOT permit is required prior to work starting as noted above. Any additional work not specified and approved in the plans will require a new MCDOT permit issued prior to work being completed.
2. The City will have ownership of the bioswales and associated facilities, receiving a full credit of about 70% for the Total Suspended Solids (TSS) reduction.
3. The City will maintain in good condition the bioswales and associated facilities to ensure that the facilities are and remain in proper working condition (i.e. operating as intended by the original design to infiltrate and treat stormwater runoff). This shall include, but not be limited to, the bioswale structures, drains, and connections to the MCDOT's storm sewer; weeding; replacement of dead/damaged plantings; and removal of litter and debris and maintenance in accordance to the City's bio-retention facility maintenance contract at no cost to the MCDOT. Plantings that interfere with the visibility and sight distance shall be removed by the City.
4. MCDOT will grant the City a permanent easement to enter the area of the bioswales and associated facilities for the purpose of performing the maintenance described above. The proper temporary traffic control shall be in place according to the Manual on Uniform Traffic Control Devices (MUCTD) when performing said maintenance.
5. MCDOT accepts no responsibility for loss or damage that may occur to the bioswales and plantings and the City shall be fully aware that the plantings are subject to mortality, thinning, normal hazard due to maintenance operations, snow control, calcium chloride damage, and public utility installation or alteration; trimming or removal if and when they cause restrictions to sight distance or hazardous snow or ice conditions on the roadway.
6. Should reconstruction or other improvement of the road be undertaken; and possible partial or complete abandonment or obliteration or return to private ownership if the future changes in road location should be made, the City shall remove or relocate their facilities at their expense.

7. If at any time after the City has assumed landscaping maintenance responsibility it shall come to the attention of MCDOT that the bioswales and associated facilities are not properly maintained pursuant to the terms of this agreement, the MCDOT or designee may issue a written notice to the City that a deficiency or deficiencies exist(s). Upon receipt of the notice, the City shall have a period of thirty (30) calendar days within which to correct the cited deficiencies. If said deficiencies are not corrected within this time period, MCDOT may terminate the agreement, in which case the City shall at its own expense and within sixty (60) days after written notice by MCDOT, remove all of the landscaping that the MCDOT directs be removed and return the right-of-way to its original condition, and relinquish any TSS removal credits from this project obtained per this agreement.
8. The City shall keep in force during the period of this agreement public liability insurance, property damage insurance and worker's compensation insurance through an insurance policy(ies).
9. The City agrees to indemnify and hold MCDOT harmless from any claim or cause of action arising in any way from the installation, maintenance (or deficiency thereof) or malfunction of the bioswales, trees and associated facilities, which the City will own and maintain under the terms of this agreement. The City also agrees to the following:

“The City agrees to indemnify and save harmless the MCDOT from and against all liabilities, claims, demands, judgements, losses, and all suits at law or in equity, costs and expenses, including reasonable attorney fees, for injury or death of any person or loss or damage to the property of any person, firm, organization or corporation, including both parties hereto and their employees, arising from the City's work under this agreement.”

This agreement is subject to the terms and conditions that follow and is executed by the undersigned under proper authority to execute such an agreement for the designated Municipality and upon acceptance by the MCDOT shall constitute an agreement between the City and the MCDOT.

Signed for and on behalf of Milwaukee County:

_____ Signature	Director, Department of Transportation (MCDOT) _____ Title	_____ Date
_____ Donna Brown-Martin Name (Written Clearly)		

Signed for and on behalf of the City of Milwaukee:

_____ Signature	Commissioner of Public Works _____ Title	_____ Date
_____ Jeffrey S. Polenske Name (Written Clearly)		

ISL W. GOOD HOPE RD.
 *5555 W. GOOD HOPE RD.
 BIO-SWALE 1BBSW
 P.F. NO. 251-4

ISL W. GOOD HOPE RD.
 *7101 W. GOOD HOPE RD.
 BIO-SWALE 1BBSW96
 P.F. NO. 251-9

(E/L)
 N. 87TH ST.
 INL W. GOOD HOPE RD.
 *8618 W. GOOD HOPE RD.
 BIO-SWALE 1BBSW99
 P.F. NO. 251-7

BIO-SWALE 1BBSW
 P.F. NO. 252-3

ISL W. GOOD HOPE RD.
 *8701 W. GOOD HOPE RD.
 BIO-SWALE 1BBSW94
 P.F. NO. 251-10

ISL W. GOOD HOPE RD.
 *7453 W. GOOD HOPE RD.
 BIO-SWALE 1BBSW98
 P.F. NO. 251-8

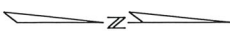
BIO-SWALE 1BBSW76
 P.F. NO. 251-14

WL OF N. 51ST ST.

INL W. GOOD HOPE RD.
 *4200 W. GOOD HOPE RD.
 WL OF N. 60TH ST.

FOR SPECIAL PROVISIONS SEE PLAN FILE NO. 188-5-116
 FOR DETAILS SEE PLAN FILE NO. 251-4
 SHEET NO. 1 OF 13 PLAN FILE NO. 251-4
 SHEET NO. 2 OF 13 PLAN FILE NO. 251-4
 SHEET NO. 3 OF 13 PLAN FILE NO. 251-4
 SHEET NO. 4 OF 13 PLAN FILE NO. 251-4
 SHEET NO. 5 OF 13 PLAN FILE NO. 251-4
 SHEET NO. 6 OF 13 PLAN FILE NO. 251-4
 SHEET NO. 7 OF 13 PLAN FILE NO. 251-4
 SHEET NO. 8 OF 13 PLAN FILE NO. 251-4
 SHEET NO. 9 OF 13 PLAN FILE NO. 251-4
 SHEET NO. 10 OF 13 PLAN FILE NO. 251-4
 SHEET NO. 11 OF 13 PLAN FILE NO. 251-4
 SHEET NO. 12 OF 13 PLAN FILE NO. 251-4
 SHEET NO. 13 OF 13 PLAN FILE NO. 251-4

CALL DIGGERS HOTLINE
 1-800-242-6511
 FROM 8:00 AM TO 5:00 PM MONDAY THROUGH FRIDAY
 FOR 24 HOUR SERVICE CALL 911



NO.	DATE	REVISION
1	08/11/2010	ISSUED FOR PERMIT
2	08/11/2010	REVISED PER COMMENTS
3	08/11/2010	REVISED PER COMMENTS
4	08/11/2010	REVISED PER COMMENTS
5	08/11/2010	REVISED PER COMMENTS
6	08/11/2010	REVISED PER COMMENTS
7	08/11/2010	REVISED PER COMMENTS
8	08/11/2010	REVISED PER COMMENTS
9	08/11/2010	REVISED PER COMMENTS
10	08/11/2010	REVISED PER COMMENTS
11	08/11/2010	REVISED PER COMMENTS
12	08/11/2010	REVISED PER COMMENTS
13	08/11/2010	REVISED PER COMMENTS

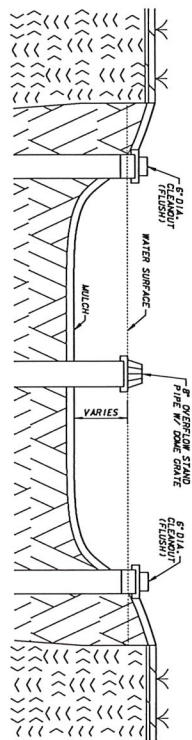
ENVIRONMENTAL ENGINEERING SECTION
 DEPARTMENT OF PUBLIC WORKS
 WISCONSIN

BIO-SWALE SITE PLAN
 W. GOOD HOPE ROAD
 595± WEST OF N. 51ST STREET
 TO
 60± EAST OF N. 50TH BOULEVARD

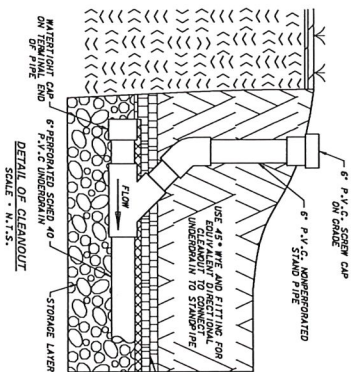
DATE: 08/11/2010
 TIME: 10:00 AM
 DRAWN BY: M. Beckel
 CHECKED BY: M. Beckel
 IN CHARGE: M. Beckel

PROJECT NO. 104, 105, 106
 SHEET NO. 1 OF 13 PLAN FILE NO. 251-4A

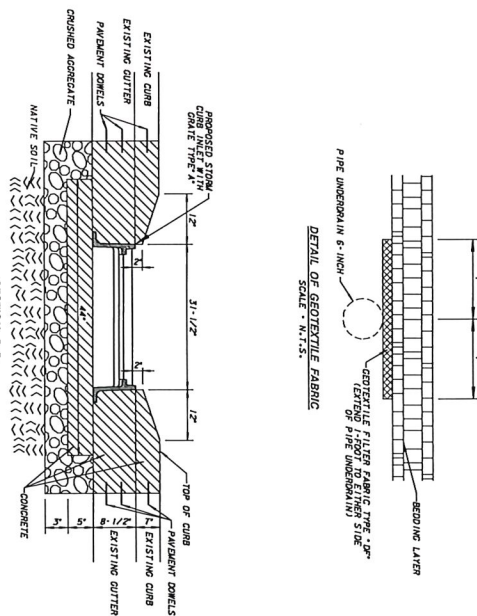
BIO-SWALE DETAILS



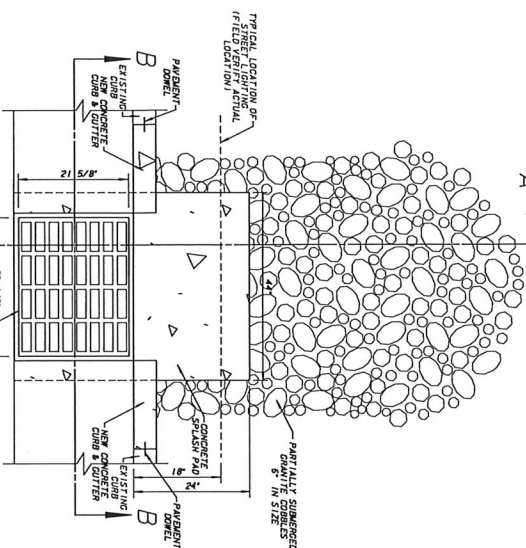
DETAIL OF 6" OVERFLOW STAND PIPE
SCALE - N.T.S.



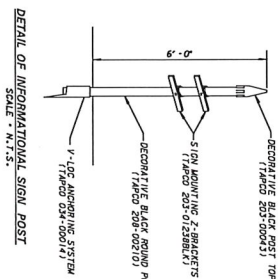
DETAIL OF CLEANOUT
SCALE - N.T.S.



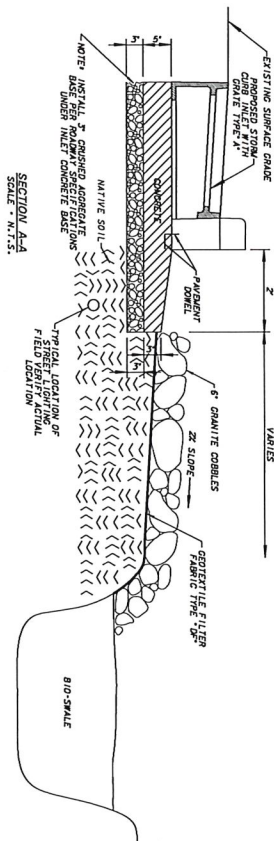
SECTION B-B
SCALE - N.T.S.



STORM CURB INLET WITH GRATE TYPE 'A'
SCALE - N.T.S.



DETAIL OF INFORMATIONAL SIGN POST
SCALE - N.T.S.



SECTION A-A
SCALE - N.T.S.

FOR SHEET A-1, SEE DRAWING SET PLAN FILE NO. 198-2-116
SHEET NO. 1 OF 13 IS PLAN FILE NO. 251-144
SHEET NO. 2 OF 13 IS PLAN FILE NO. 251-144
SHEET NO. 3 OF 13 IS PLAN FILE NO. 251-144
SHEET NO. 4 OF 13 IS PLAN FILE NO. 251-144
SHEET NO. 5 OF 13 IS PLAN FILE NO. 251-144
SHEET NO. 6 OF 13 IS PLAN FILE NO. 251-144
SHEET NO. 7 OF 13 IS PLAN FILE NO. 251-144
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SHEET NO. 9 OF 13 IS PLAN FILE NO. 251-144
SHEET NO. 10 OF 13 IS PLAN FILE NO. 251-144
SHEET NO. 11 OF 13 IS PLAN FILE NO. 251-144
SHEET NO. 12 OF 13 IS PLAN FILE NO. 252-14
SHEET NO. 13 OF 13 IS PLAN FILE NO. 252-14

LINE CODE LEGEND

1	EXISTING	2	PROPOSED
3	REMOVE	4	AS SHOWN
5	AS SHOWN	6	AS SHOWN
7	AS SHOWN	8	AS SHOWN
9	AS SHOWN	10	AS SHOWN
11	AS SHOWN	12	AS SHOWN
13	AS SHOWN	14	AS SHOWN
15	AS SHOWN	16	AS SHOWN
17	AS SHOWN	18	AS SHOWN
19	AS SHOWN	20	AS SHOWN
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91	AS SHOWN	92	AS SHOWN
93	AS SHOWN	94	AS SHOWN
95	AS SHOWN	96	AS SHOWN
97	AS SHOWN	98	AS SHOWN
99	AS SHOWN	100	AS SHOWN

CALL DIGGER HOTLINE
1-800-242-6511
OR AT THE PROJECT OFFICE AT THE LOCATION
OF THE WORK TO BE DONE OR CONTACT
THE ENGINEER AT THE OFFICE



ENVIRONMENTAL ENGINEERING SECTION
DEPARTMENT OF PUBLIC WORKS
WISCONSIN

BIO-SWALE DETAILS PLAN

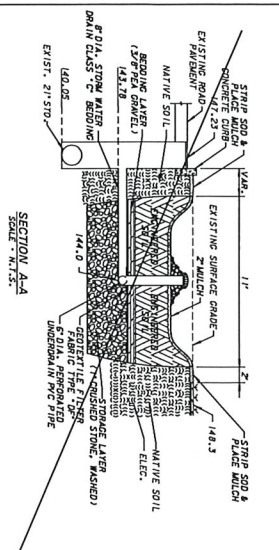
W. GOOD HOPE ROAD
595 ± EAST OF N. 51ST STREET
50 ± EAST OF N. 50TH BOULEVARD

DATE: 10/10/08
SCALE: AS SHOWN
PROJECT NO.: 08-10-208
CONTRACT NO.: 100-100-100
CONTRACT DESCRIPTION: WISCONSIN DEPARTMENT OF TRANSPORTATION
CONTRACT LOCATION: WISCONSIN DEPARTMENT OF TRANSPORTATION
CONTRACT DRAWING NO.: 08-10-208
CONTRACT DATE: 10/10/08
CONTRACT STATUS: UNDERWAY

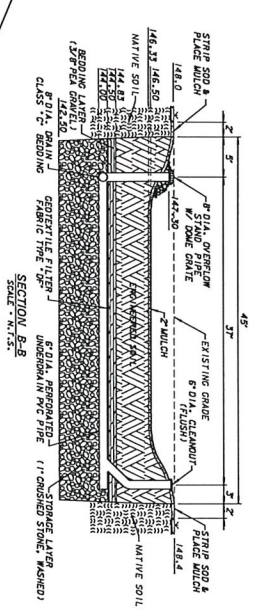
DESIGNED BY: S. BECKEL
CHECKED BY: [Signature]
DATE: 10/10/08

PROJECT ENGINEER: [Signature]
DATE: 10/10/08

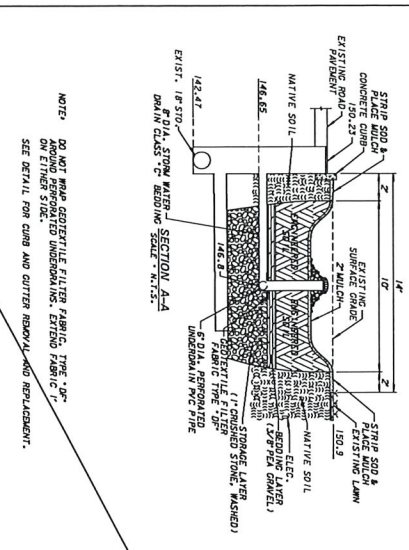
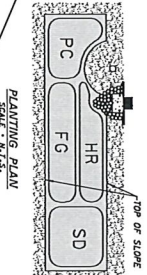
SHEET NO. 2 OF 13 PLAN FILE NO. 251-54



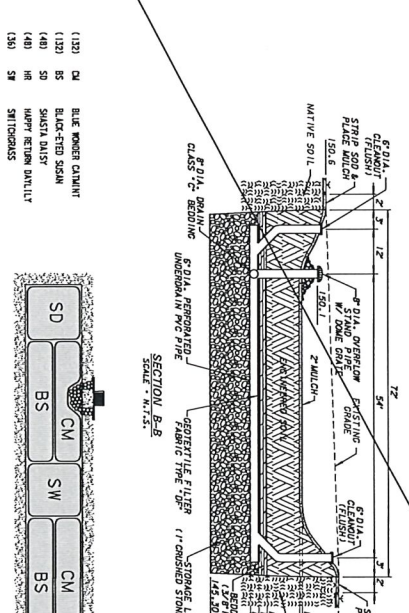
NOTE: DO NOT REMOVE GEOTEXTILE FILTER FABRIC, TYPE 'GP' AND/OR PERFORATED UNDERDRAINS, EXTEND FABRIC 1' OVER EITHER SIDE. SEE DETAIL FOR CURB AND GUTTER REMOVAL AND REPLACEMENT.



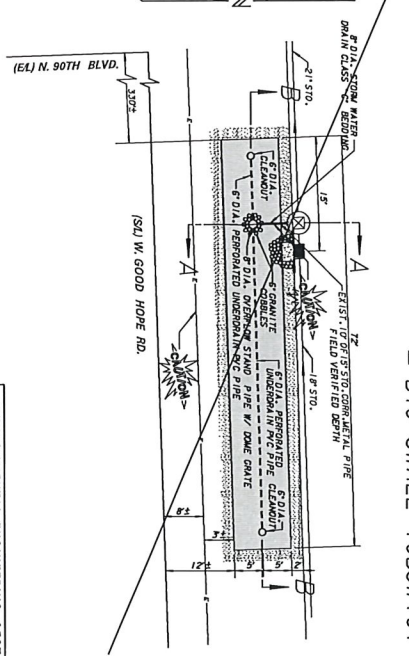
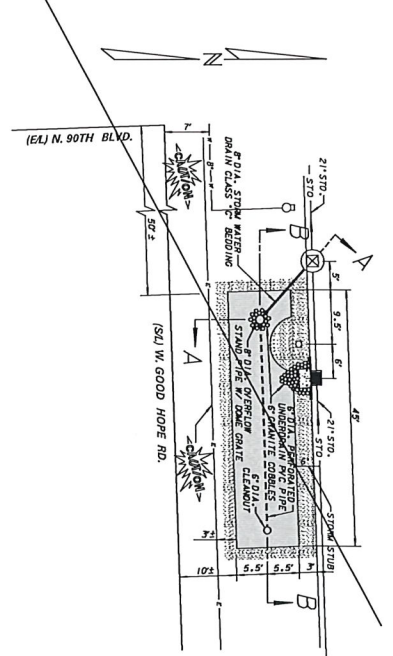
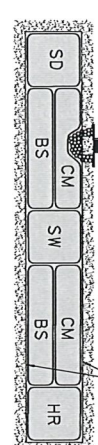
NOTE: DO NOT REMOVE GEOTEXTILE FILTER FABRIC, TYPE 'GP' AND/OR PERFORATED UNDERDRAINS, EXTEND FABRIC 1' OVER EITHER SIDE. SEE DETAIL FOR CURB AND GUTTER REMOVAL AND REPLACEMENT.



NOTE: DO NOT REMOVE GEOTEXTILE FILTER FABRIC, TYPE 'GP' AND/OR PERFORATED UNDERDRAINS, EXTEND FABRIC 1' OVER EITHER SIDE. SEE DETAIL FOR CURB AND GUTTER REMOVAL AND REPLACEMENT.



- (130) CM BLUE WOODS CHALK
- (130) BS BLACK-OTD SCUM
- (140) SD SHIRT DUST
- (140) HR HAPPY RETURN DUST
- (140) SG SMITHDUSTS



LINE CODE LEGEND

1	CONCRETE CURB	2	EXISTING SURFACE CHANNEL
3	EXISTING GRADE	4	EXISTING NATIVE SOIL
5	EXISTING 12\"/>		

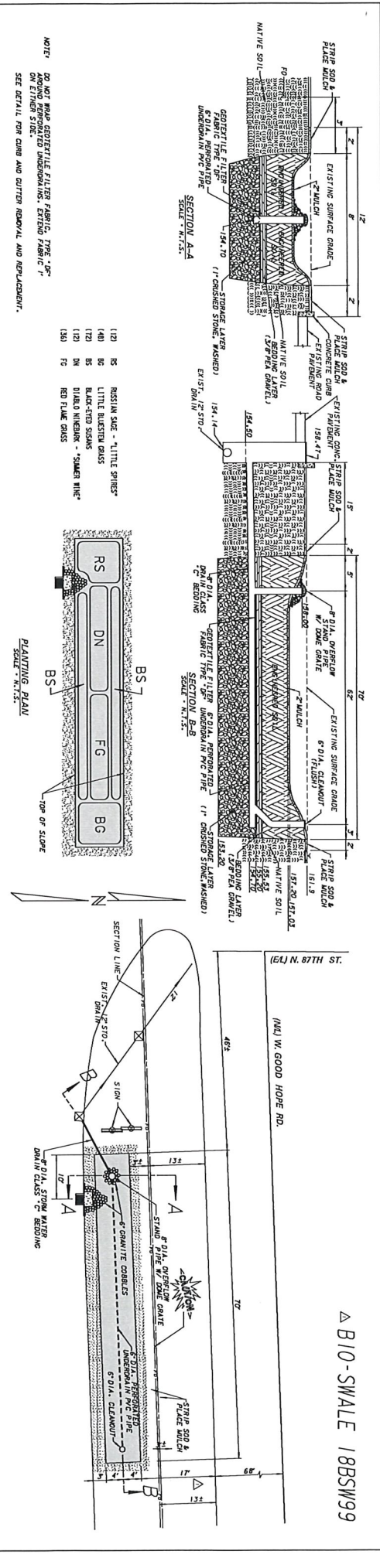
FOR SPECIAL PROVISIONS SEE PLAN FILE NO. 198-5-116
 FOR ALL FILE SECTIONS SEE PLAN FILE NO. 251-144
 SHEET NO. 1 OF 13 IS PLAN FILE NO. 251-144
 SHEET NO. 2 OF 13 IS PLAN FILE NO. 251-144
 SHEET NO. 3 OF 13 IS PLAN FILE NO. 251-144
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 SHEET NO. 11 OF 13 IS PLAN FILE NO. 251-144
 SHEET NO. 12 OF 13 IS PLAN FILE NO. 251-144
 SHEET NO. 13 OF 13 IS PLAN FILE NO. 251-144

ESTIMATE OF QUANTITIES

ITEM NO.	QUANTITY	UNIT	DESCRIPTION
100	1.00	LINEAL FEET	CONCRETE CURB
101	1.00	LINEAL FEET	EXISTING SURFACE CHANNEL
102	1.00	LINEAL FEET	EXISTING NATIVE SOIL
103	1.00	LINEAL FEET	EXISTING 12\"/>

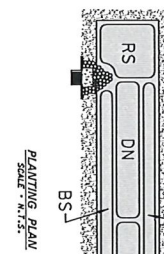
ENVIRONMENTAL ENGINEERING SECTION
 INFRASTRUCTURE SERVICES DIVISION
 DEPARTMENT OF PUBLIC WORKS
 GREEN STREET BIOSWALE PLAN
 W. GOOD HOPE ROAD (S/S)
 50'± EAST OF N. 90TH BOULEVARD
 W. GOOD HOPE ROAD (S/S)
 330'± EAST OF N. 90TH BOULEVARD

DATE: 07-13-2011
 DRAWN BY: J. S. [Signature]
 CHECKED BY: M. [Signature]
 PROJECT NO. 100-2011-001
 SHEET NO. 3 OF 13
 PLAN FILE NO. 251-6A

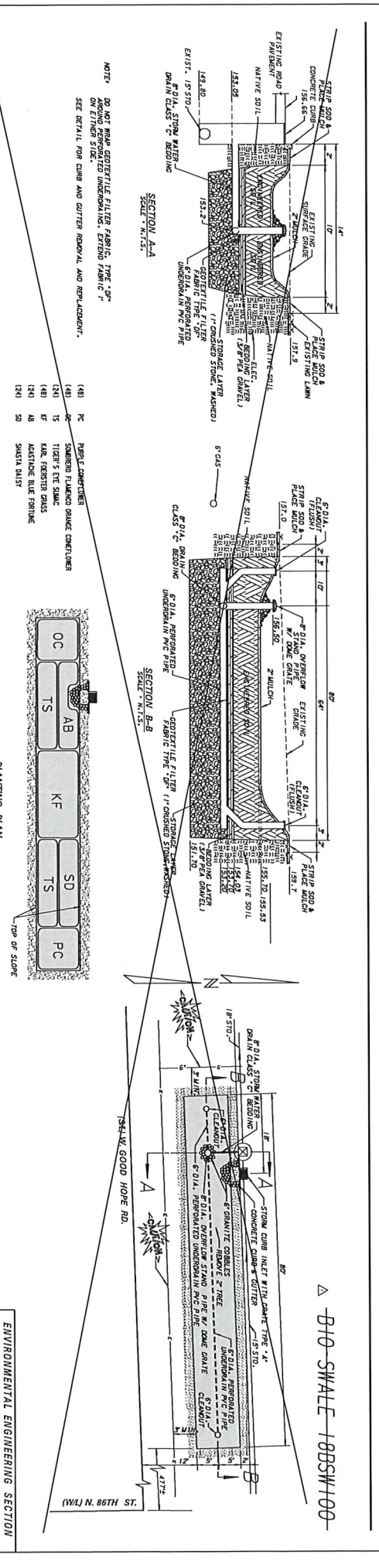


NOTE:
DO NOT REPAIR GEOTEXTILE FILTER FABRIC, TYPE 'FG' AROUND PERFORATED UNDERDRAINS. EXISTING FABRIC 'F' ON EITHER SIDE.
SEE DETAIL FOR CURB AND CUTTER REMOVAL AND REPLACEMENT.

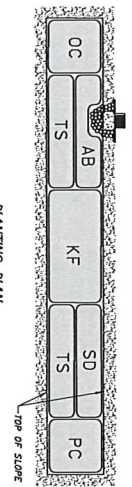
- (12) RS RIPRAP SIDE - "LITTLE SPRIES"
- (12) BS LITTLE RIPRAP GRASS
- (12) DN BLACK-ENDED SOANS
- (12) DN DILAO NICKERAK - "SMALL HICK"
- (13) FG RED FLAME GRASS



PLANTING PLAN
SCALE: 1/4" = 1'-0"



- (A) RC RIPRAP CURB
- (A) TS SANDSTONE FLANKED GRASS CURBLINE
- (A) TS TIGER'S TAIL GRASS
- (A) F KAR FORESTER GRASS
- (A) AB JUSTICE BLUE FERN
- (A) SD SHASTA BUSH



PLANTING PLAN
SCALE: 1/4" = 1'-0"

ESTIMATE OF QUANTITIES

ITEM NO.	DESCRIPTION	QUANTITY	UNIT	PRICE	TOTAL
1001	1" GEOTEXTILE FILTER FABRIC	1000	SQ. YD.	0.15	150.00
1002	1" STORAGE STONE	1000	CY	1.50	1500.00
1003	1" RIPRAP	1000	CY	2.00	2000.00
1004	CONCRETE CURB	1000	LINEAL FT.	1.00	1000.00
1005	GRASS SEED	1000	SQ. YD.	0.10	100.00
1006	SOIL	1000	CY	1.00	1000.00
1007	PAVEMENT	1000	SQ. YD.	1.00	1000.00
1008	UNDERDRAIN	1000	LINEAL FT.	1.00	1000.00
1009	GEOTEXTILE FILTER FABRIC	1000	SQ. YD.	0.15	150.00
1010	STORAGE STONE	1000	CY	1.50	1500.00
1011	RIPRAP	1000	CY	2.00	2000.00
1012	CONCRETE CURB	1000	LINEAL FT.	1.00	1000.00
1013	GRASS SEED	1000	SQ. YD.	0.10	100.00
1014	SOIL	1000	CY	1.00	1000.00
1015	PAVEMENT	1000	SQ. YD.	1.00	1000.00
1016	UNDERDRAIN	1000	LINEAL FT.	1.00	1000.00
1017	GEOTEXTILE FILTER FABRIC	1000	SQ. YD.	0.15	150.00
1018	STORAGE STONE	1000	CY	1.50	1500.00
1019	RIPRAP	1000	CY	2.00	2000.00
1020	CONCRETE CURB	1000	LINEAL FT.	1.00	1000.00
1021	GRASS SEED	1000	SQ. YD.	0.10	100.00
1022	SOIL	1000	CY	1.00	1000.00
1023	PAVEMENT	1000	SQ. YD.	1.00	1000.00
1024	UNDERDRAIN	1000	LINEAL FT.	1.00	1000.00
1025	GEOTEXTILE FILTER FABRIC	1000	SQ. YD.	0.15	150.00
1026	STORAGE STONE	1000	CY	1.50	1500.00
1027	RIPRAP	1000	CY	2.00	2000.00
1028	CONCRETE CURB	1000	LINEAL FT.	1.00	1000.00
1029	GRASS SEED	1000	SQ. YD.	0.10	100.00
1030	SOIL	1000	CY	1.00	1000.00
1031	PAVEMENT	1000	SQ. YD.	1.00	1000.00
1032	UNDERDRAIN	1000	LINEAL FT.	1.00	1000.00
1033	GEOTEXTILE FILTER FABRIC	1000	SQ. YD.	0.15	150.00
1034	STORAGE STONE	1000	CY	1.50	1500.00
1035	RIPRAP	1000	CY	2.00	2000.00
1036	CONCRETE CURB	1000	LINEAL FT.	1.00	1000.00
1037	GRASS SEED	1000	SQ. YD.	0.10	100.00
1038	SOIL	1000	CY	1.00	1000.00
1039	PAVEMENT	1000	SQ. YD.	1.00	1000.00
1040	UNDERDRAIN	1000	LINEAL FT.	1.00	1000.00
1041	GEOTEXTILE FILTER FABRIC	1000	SQ. YD.	0.15	150.00
1042	STORAGE STONE	1000	CY	1.50	1500.00
1043	RIPRAP	1000	CY	2.00	2000.00
1044	CONCRETE CURB	1000	LINEAL FT.	1.00	1000.00
1045	GRASS SEED	1000	SQ. YD.	0.10	100.00
1046	SOIL	1000	CY	1.00	1000.00
1047	PAVEMENT	1000	SQ. YD.	1.00	1000.00
1048	UNDERDRAIN	1000	LINEAL FT.	1.00	1000.00
1049	GEOTEXTILE FILTER FABRIC	1000	SQ. YD.	0.15	150.00
1050	STORAGE STONE	1000	CY	1.50	1500.00
1051	RIPRAP	1000	CY	2.00	2000.00
1052	CONCRETE CURB	1000	LINEAL FT.	1.00	1000.00
1053	GRASS SEED	1000	SQ. YD.	0.10	100.00
1054	SOIL	1000	CY	1.00	1000.00
1055	PAVEMENT	1000	SQ. YD.	1.00	1000.00
1056	UNDERDRAIN	1000	LINEAL FT.	1.00	1000.00
1057	GEOTEXTILE FILTER FABRIC	1000	SQ. YD.	0.15	150.00
1058	STORAGE STONE	1000	CY	1.50	1500.00
1059	RIPRAP	1000	CY	2.00	2000.00
1060	CONCRETE CURB	1000	LINEAL FT.	1.00	1000.00
1061	GRASS SEED	1000	SQ. YD.	0.10	100.00
1062	SOIL	1000	CY	1.00	1000.00
1063	PAVEMENT	1000	SQ. YD.	1.00	1000.00
1064	UNDERDRAIN	1000	LINEAL FT.	1.00	1000.00
1065	GEOTEXTILE FILTER FABRIC	1000	SQ. YD.	0.15	150.00
1066	STORAGE STONE	1000	CY	1.50	1500.00
1067	RIPRAP	1000	CY	2.00	2000.00
1068	CONCRETE CURB	1000	LINEAL FT.	1.00	1000.00
1069	GRASS SEED	1000	SQ. YD.	0.10	100.00
1070	SOIL	1000	CY	1.00	1000.00
1071	PAVEMENT	1000	SQ. YD.	1.00	1000.00
1072	UNDERDRAIN	1000	LINEAL FT.	1.00	1000.00
1073	GEOTEXTILE FILTER FABRIC	1000	SQ. YD.	0.15	150.00
1074	STORAGE STONE	1000	CY	1.50	1500.00
1075	RIPRAP	1000	CY	2.00	2000.00
1076	CONCRETE CURB	1000	LINEAL FT.	1.00	1000.00
1077	GRASS SEED	1000	SQ. YD.	0.10	100.00
1078	SOIL	1000	CY	1.00	1000.00
1079	PAVEMENT	1000	SQ. YD.	1.00	1000.00
1080	UNDERDRAIN	1000	LINEAL FT.	1.00	1000.00
1081	GEOTEXTILE FILTER FABRIC	1000	SQ. YD.	0.15	150.00
1082	STORAGE STONE	1000	CY	1.50	1500.00
1083	RIPRAP	1000	CY	2.00	2000.00
1084	CONCRETE CURB	1000	LINEAL FT.	1.00	1000.00
1085	GRASS SEED	1000	SQ. YD.	0.10	100.00
1086	SOIL	1000	CY	1.00	1000.00
1087	PAVEMENT	1000	SQ. YD.	1.00	1000.00
1088	UNDERDRAIN	1000	LINEAL FT.	1.00	1000.00
1089	GEOTEXTILE FILTER FABRIC	1000	SQ. YD.	0.15	150.00
1090	STORAGE STONE	1000	CY	1.50	1500.00
1091	RIPRAP	1000	CY	2.00	2000.00
1092	CONCRETE CURB	1000	LINEAL FT.	1.00	1000.00
1093	GRASS SEED	1000	SQ. YD.	0.10	100.00
1094	SOIL	1000	CY	1.00	1000.00
1095	PAVEMENT	1000	SQ. YD.	1.00	1000.00
1096	UNDERDRAIN	1000	LINEAL FT.	1.00	1000.00
1097	GEOTEXTILE FILTER FABRIC	1000	SQ. YD.	0.15	150.00
1098	STORAGE STONE	1000	CY	1.50	1500.00
1099	RIPRAP	1000	CY	2.00	2000.00
1100	CONCRETE CURB	1000	LINEAL FT.	1.00	1000.00

CALL DICKERS MTL LINE
1-800-242-8511



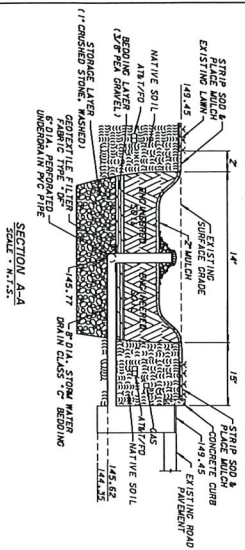
ENVIRONMENTAL ENGINEERING SECTION
INFRASTRUCTURE SERVICES DIVISION
DEPARTMENT OF PUBLIC WORKS
DIVISION OF TRANSPORTATION

GREEN STREET BIOSWALE PLAN
W. GOOD HOPE ROAD
46± EAST OF N. 87TH STREET
W. GOOD HOPE ROAD (S/S)
477± WEST OF N. 86TH STREET

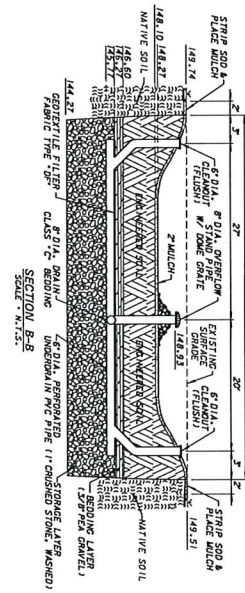
WISCONSIN PROFESSIONAL ENGINEER
ROBERT B. DICKERS
NO. 1000000000

DATE: 10/20/2010
SCALE: AS SHOWN
SHEET NO.: 4 OF 12
PLAN FILE NO.: 251-7A

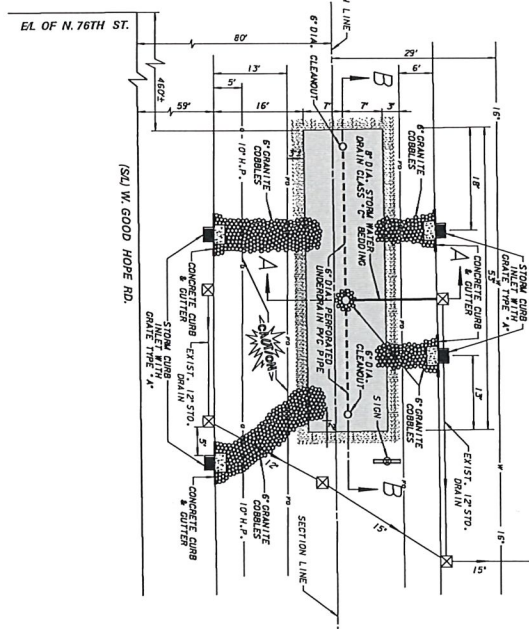
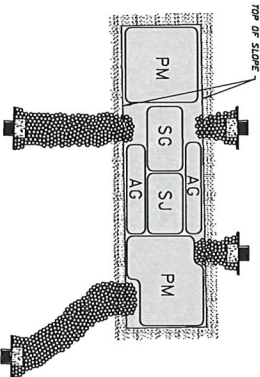
△ B10-SWALE 18BSW98



NOTE: DO NOT REMOVE GEOTEXTILE FILTER FABRIC, TYPE 'G', OR PERFORATED UNDERDRAINS, EXISTING FABRIC 'F'. SEE DETAIL FOR CURB AND GUTTER REMOVAL AND REPLACEMENT.



- (80) 1/2" CURB
- (20) 5" GRANITE COBBLES
- (120) 18\"/>
- (120) 5\"/>



LINE CODE LEGEND

LINE CODE	DESCRIPTION
1	STREET LIGHTING
2	CONCRETE DRIVE
3	ASPHALT DRIVE
4	GRAVEL DRIVE
5	GRAVEL DRIVE
6	GRAVEL DRIVE
7	GRAVEL DRIVE
8	GRAVEL DRIVE
9	GRAVEL DRIVE
10	GRAVEL DRIVE
11	GRAVEL DRIVE
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98	GRAVEL DRIVE
99	GRAVEL DRIVE
100	GRAVEL DRIVE

CONTRACT NO. 819, PP. 99-128
 PLAN NO. 819, PP. 142-144
 SHEET NO. 5 OF 13
 DATE: 08/11/03

FOR SPECIAL PROVISIONS SEE PLAN FILE NO. 198-5-118
 FOR SPECIAL PROVISIONS SEE PLAN FILE NO. 251-44
 SHEET NO. 1 OF 13 PLAN FILE NO. 251-44
 SHEET NO. 2 OF 13 PLAN FILE NO. 251-44
 SHEET NO. 3 OF 13 PLAN FILE NO. 251-44
 SHEET NO. 4 OF 13 PLAN FILE NO. 251-44
 SHEET NO. 5 OF 13 PLAN FILE NO. 251-44
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 SHEET NO. 12 OF 13 PLAN FILE NO. 251-44
 SHEET NO. 13 OF 13 PLAN FILE NO. 251-44

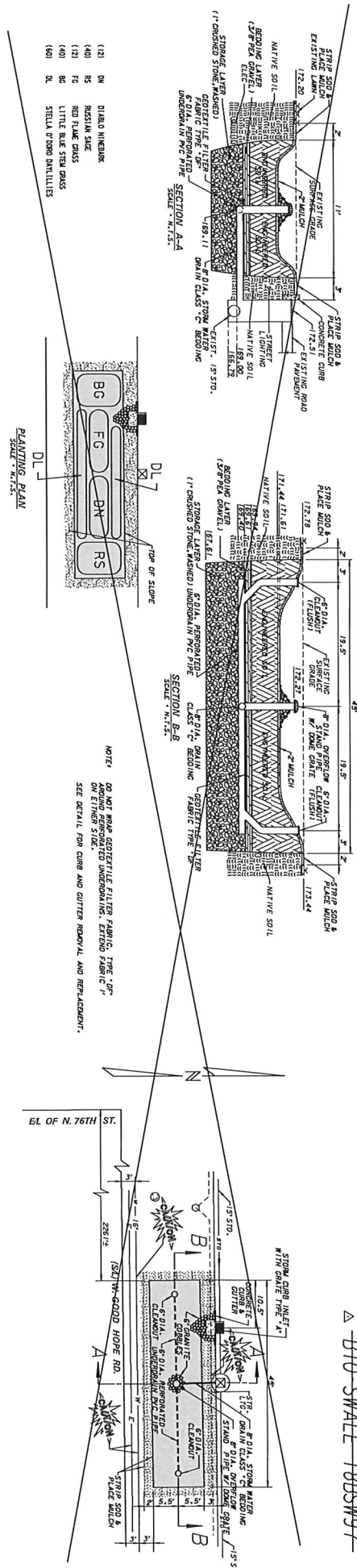
CALL DIGGERS HOTLINE
 1-800-242-8511
 FOR A FREE DIGGING SERVICE CARD



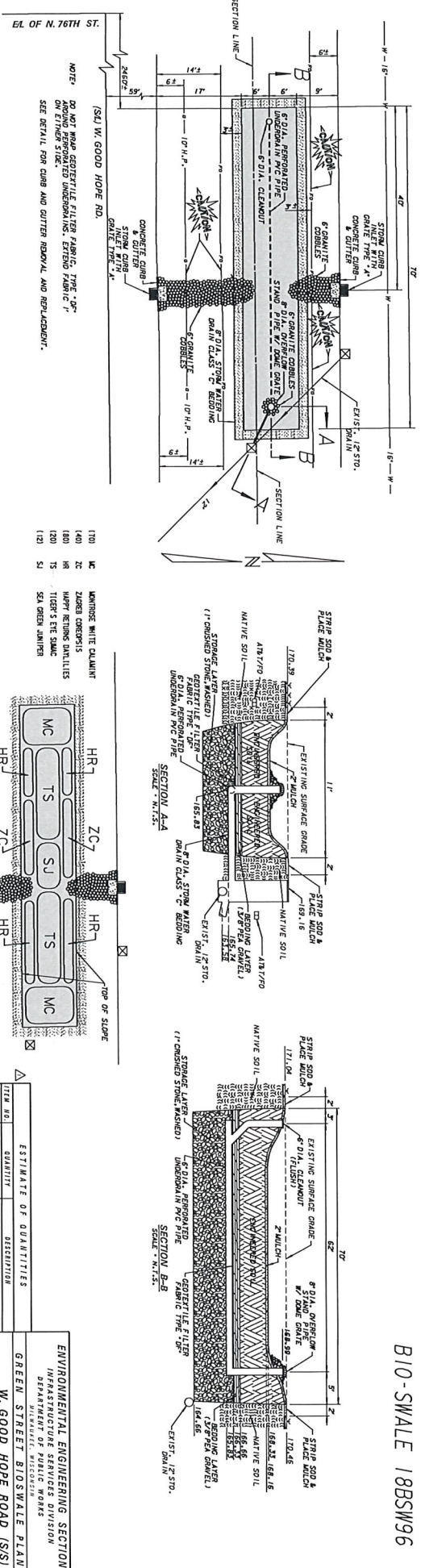
ITEM NO.	QUANTITY	DESCRIPTION
0001	1	STORM CURB WITH 3\"/>
0002	1	CONCRETE DRIVE
0003	1	GRAVEL DRIVE
0004	1	GRAVEL DRIVE
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0098	1	GRAVEL DRIVE
0099	1	GRAVEL DRIVE
0100	1	GRAVEL DRIVE

ENVIRONMENTAL ENGINEERING SECTION
 INFRASTRUCTURE SERVICES DIVISION
 DEPARTMENT OF PUBLIC WORKS
 BUREAU OF STREET DESIGN
 GREEN STREET BIOSWALE PLAN
 AT 460+ EAST OF N. 78TH STREET
 PLAN FILE NO. 251-8A
 SHEET NO. 5 OF 13

BIO-SWALE 18BSW97



NOTE: DO NOT MOW GEOTEXTILE FILTER FABRIC, TYPE 'G' OR ANY OTHER STRIPS, EXTENDING UNDER SWALE. EXTENDING FABRIC 'F' ON EITHER SIDE. SEE DETAIL FOR CURB AND CUTTER REMOVAL AND REPLACEMENT.



- (120) MC MANTON WHITE CALUMET
- (140) ZC ZONES CONCRETE
- (180) HR HAPPY RETURN DALLIES
- (200) TS TIGER'S EYE GRASS
- (210) S1 S1 GREEN JAMBIR

PLANTING PLAN
SCALE: N.T.S.

LINE CODE LEGEND

1	CONCRETE	2	ASPHALT
3	GRAVEL	4	STONE
5	GEOTEXTILE	6	SOIL
7	PLANTING	8	PAVING
9	CONCRETE	10	ASPHALT
11	GRAVEL	12	STONE
13	GEOTEXTILE	14	SOIL
15	PLANTING	16	PAVING

FOR SPECIAL REQUIREMENTS SEE PLAN FILE NO. 198-5-118
 FOR SPECIAL REQUIREMENTS SEE PLAN FILE NO. 201-5-144
 SHEET NO. 1 OF 15 PLAN FILE NO. 201-5-144
 SHEET NO. 2 OF 15 PLAN FILE NO. 201-5-144
 SHEET NO. 3 OF 15 PLAN FILE NO. 201-5-144
 SHEET NO. 4 OF 15 PLAN FILE NO. 201-5-144
 SHEET NO. 5 OF 15 PLAN FILE NO. 201-5-144
 SHEET NO. 6 OF 15 PLAN FILE NO. 201-5-144
 SHEET NO. 7 OF 15 PLAN FILE NO. 201-5-144
 SHEET NO. 8 OF 15 PLAN FILE NO. 201-5-144
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 SHEET NO. 10 OF 15 PLAN FILE NO. 201-5-144
 SHEET NO. 11 OF 15 PLAN FILE NO. 201-5-144
 SHEET NO. 12 OF 15 PLAN FILE NO. 201-5-144
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 SHEET NO. 15 OF 15 PLAN FILE NO. 201-5-144

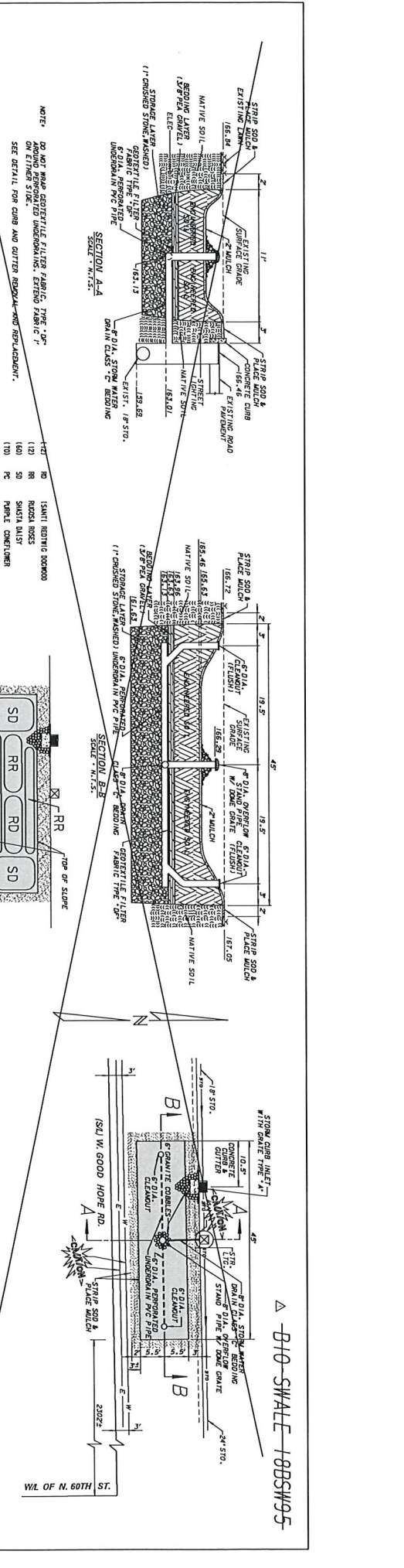
CALL DIOGERS HOTLINE
 1-800-242-8511
 FOR A FREE QUOTE ON YOUR PROJECT
 WE'LL BE THERE TO HELP YOU THROUGHOUT THE ENTIRE PROJECT



ESTIMATE OF QUANTITIES

ITEM NO.	QUANTITY	DESCRIPTION
1000	2	STORM CURB WITH GATE TYPE 'A'
1001	1	12" STORM DRAIN WITH GATE TYPE 'A'
1002	1	12" STORM DRAIN WITH GATE TYPE 'B'
1003	1	12" STORM DRAIN WITH GATE TYPE 'C'
1004	1	12" STORM DRAIN WITH GATE TYPE 'D'
1005	1	12" STORM DRAIN WITH GATE TYPE 'E'
1006	1	12" STORM DRAIN WITH GATE TYPE 'F'
1007	1	12" STORM DRAIN WITH GATE TYPE 'G'
1008	1	12" STORM DRAIN WITH GATE TYPE 'H'
1009	1	12" STORM DRAIN WITH GATE TYPE 'I'
1010	1	12" STORM DRAIN WITH GATE TYPE 'J'
1011	1	12" STORM DRAIN WITH GATE TYPE 'K'
1012	1	12" STORM DRAIN WITH GATE TYPE 'L'
1013	1	12" STORM DRAIN WITH GATE TYPE 'M'
1014	1	12" STORM DRAIN WITH GATE TYPE 'N'
1015	1	12" STORM DRAIN WITH GATE TYPE 'O'
1016	1	12" STORM DRAIN WITH GATE TYPE 'P'
1017	1	12" STORM DRAIN WITH GATE TYPE 'Q'
1018	1	12" STORM DRAIN WITH GATE TYPE 'R'
1019	1	12" STORM DRAIN WITH GATE TYPE 'S'
1020	1	12" STORM DRAIN WITH GATE TYPE 'T'
1021	1	12" STORM DRAIN WITH GATE TYPE 'U'
1022	1	12" STORM DRAIN WITH GATE TYPE 'V'
1023	1	12" STORM DRAIN WITH GATE TYPE 'W'
1024	1	12" STORM DRAIN WITH GATE TYPE 'X'
1025	1	12" STORM DRAIN WITH GATE TYPE 'Y'
1026	1	12" STORM DRAIN WITH GATE TYPE 'Z'

W. GOOD HOPE ROAD
 2460 1/2 EAST OF N. 76TH STREET
 ENVIRONMENTAL ENGINEERING SECTION
 INFRASTRUCTURE SERVICES DIVISION
 DEPARTMENT OF PUBLIC WORKS
 GREEN STREET, BIOSWALE PLAN
 W. GOOD HOPE ROAD (SS)
 2261 1/2 EAST OF N. 76TH STREET
 SHEET NO. 6 OF 13
 PLAN FILE NO. 251-9A



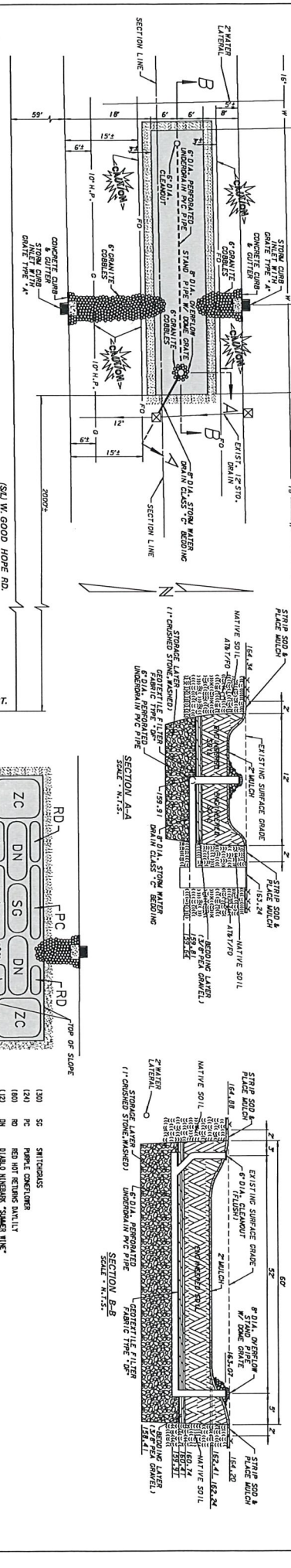
NOTE: DO NOT MASH GEOTEXTILE FILTER FABRIC, TYPE "GF" ON EITHER SIDE, UNDERMINING, EROSION, TRENCHING, OR CUTTING. SEE DETAIL FOR CURB AND CUTTER REPAIR AND REPLACEMENT.

120 NO ISMTI ROTARY DOOR
121 RR RUBBER ROSES
122 SD SHAFT DUST
123 PC PAPER CONE/TOWER

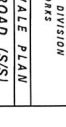
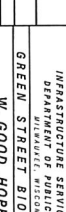
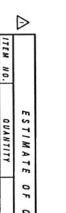


BIO-SWALE 18BSW94

BIO-SWALE 18BSW95



NOTE: DO NOT MASH GEOTEXTILE FILTER FABRIC, TYPE "GF" UNDERMINING, EROSION, TRENCHING, OR CUTTING. SEE DETAIL FOR CURB AND CUTTER REPAIR AND REPLACEMENT.



WISCONSIN PROFESSIONAL ENGINEER
MARTIN B. SPANBERG
E 37011
1000 EAST WISCONSIN AVENUE
MILWAUKEE, WISCONSIN 53212

ESTIMATE OF QUANTITIES

ITEM NO.	QUANTITY	DESCRIPTION
120	NO	ISMTI ROTARY DOOR
121	RR	RUBBER ROSES
122	SD	SHAFT DUST
123	PC	PAPER CONE/TOWER

W. GOOD HOPE ROAD
2000⁺ WEST OF N. 60TH STREET

ENVIRONMENTAL ENGINEERING SECTION
INFRASTRUCTURE SERVICES DIVISION
DEPARTMENT OF PUBLIC WORKS
BIWAUKEE, WISCONSIN

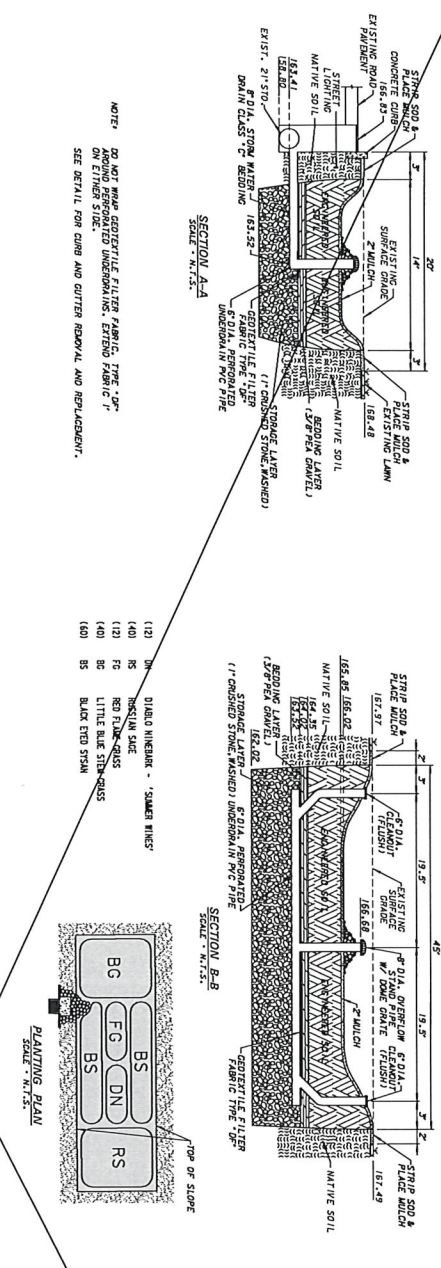
GREEN STREET BIOSWALE PLAN
W. GOOD HOPE ROAD (S/S)
2002⁺ WEST OF N. 60TH STREET

W. GOOD HOPE ROAD
2000⁺ WEST OF N. 60TH STREET

DATE: 11/10/11
DRAWN BY: S. SPANBERG
CHECKED BY: M. SPANBERG
APPROVED BY: M. SPANBERG

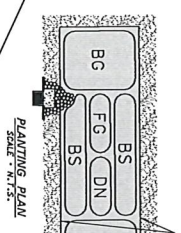
SHEET NO. 7 OF 13 PLAN FILE NO. 251-10A

B10-SWALE-18BSW93-

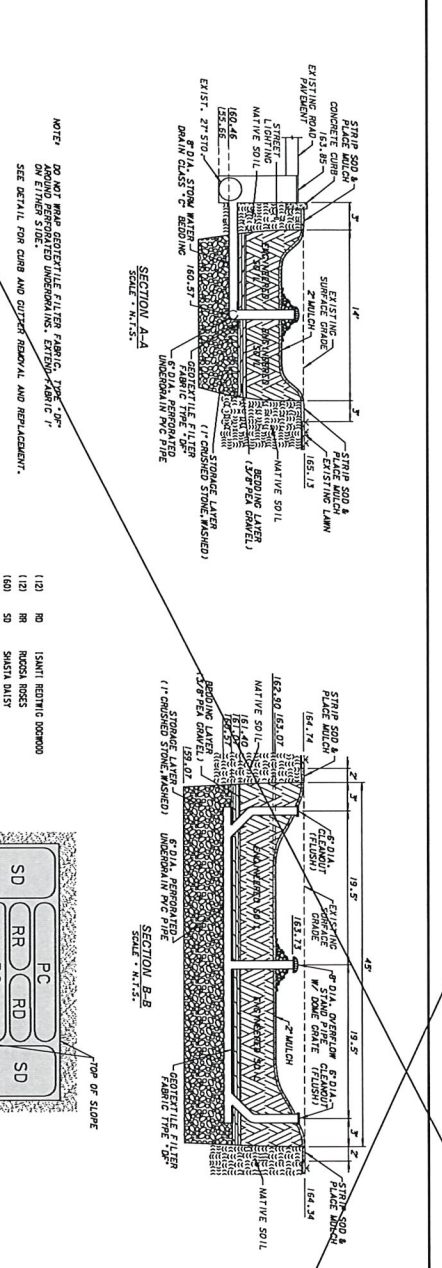


NOTE: DO NOT RAMP GEOTEXTILE FILTER FABRIC. TYPE "GP" ABOVE PERFORATED UNDERDRAINS. EXISTING FABRIC 'F' SEE DETAIL FOR CURB AND GUTTER REMOVAL AND REPLACEMENT.

- (12) 18" DIA. HOLLOW PIPE - 5' MARKER MARKS
- (14) 18" HOLLOW SLUE
- (12) 6" PE
- (40) 1/2" LITTLE BLUE STEEL GRILLS
- (10) 2" BLACK ENDS STYAN

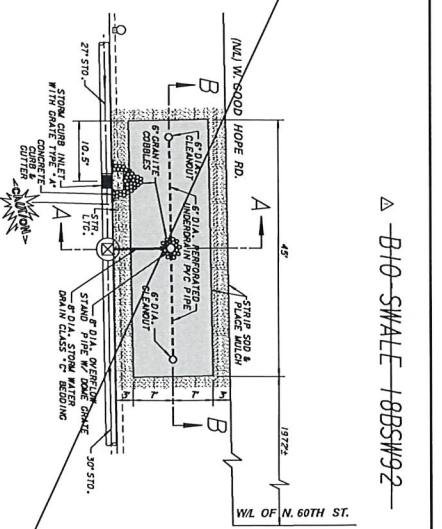
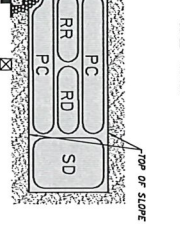


B10-SWALE-18BSW92-



NOTE: DO NOT RAMP GEOTEXTILE FILTER FABRIC. TYPE "GP" ABOVE PERFORATED UNDERDRAINS. EXISTING FABRIC 'F' ON OTHER SIDE. SEE DETAIL FOR CURB AND GUTTER REMOVAL AND REPLACEMENT.

- (12) 18" DIA. HOLLOW PIPE - 5' MARKER MARKS
- (14) 18" HOLLOW SLUE
- (12) 6" PE
- (40) 1/2" LITTLE BLUE STEEL GRILLS
- (10) 2" BLACK ENDS STYAN



LINE CODE LEGEND	
1	1.0000
2	2.0000
3	3.0000
4	4.0000
5	5.0000
6	6.0000
7	7.0000
8	8.0000
9	9.0000
10	10.0000
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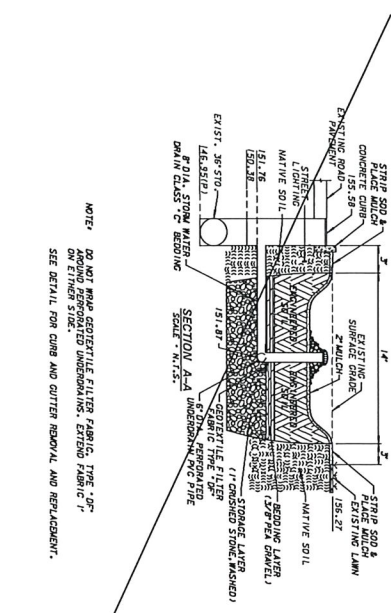
CALL DIERS' MAILING
1-800-242-8511
DIERS' MAILING SERVICE
1050 W. MILWAUKEE AVENUE, SUITE 200
MILWAUKEE, WI 53219

NO.	DESCRIPTION	QTY	UNIT
1	100' CONCRETE CURB	100	LF
2	100' 18" DIA. HOLLOW PIPE	100	LF
3	100' 18" HOLLOW SLUE	100	LF
4	100' 6" PE	100	LF
5	400' 1/2" LITTLE BLUE STEEL GRILLS	400	EA
6	100' 2" BLACK ENDS STYAN	100	EA
7	100' 17" DIA. STONE (WASHED)	100	CY
8	100' 17" DIA. PVC PIPE	100	LF
9	100' GEOTEXTILE FILTER FABRIC	100	SQ YD
10	100' BEDDING LAYER	100	CY
11	100' 6" DIA. AGGREGATE CLEANOUT	100	LF
12	100' 2" MULCH	100	CY

ESTIMATE OF QUANTITIES	
ITEM NO.	QUANTITY
1	100.00
2	100.00
3	100.00
4	100.00
5	400.00
6	100.00
7	100.00
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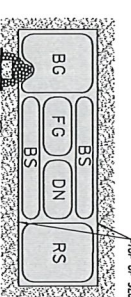
ENVIRONMENTAL ENGINEERING SERVICES
INFRASTRUCTURE SERVICES DIVISION
DEPARTMENT OF PUBLIC WORKS
BIRMGHAM, MISSISSIPPI
GREEN STREET BIOSWALE PLAN
W. GOOD HOPE ROAD (N/S)
AT 2303 1/2 WEST OF N. 60TH STREET
W. GOOD HOPE ROAD (N/S)
AT 1972 1/2 WEST OF N. 60TH STREET
DESIGNED BY: D. A. DIERS
CHECKED BY: J. R. SHERIDAN
DATE: 07/13/2011
SHEET NO. 8 OF 13
PLAN FILE NO. 251-171A

△ B10-SWALE 18BSW79



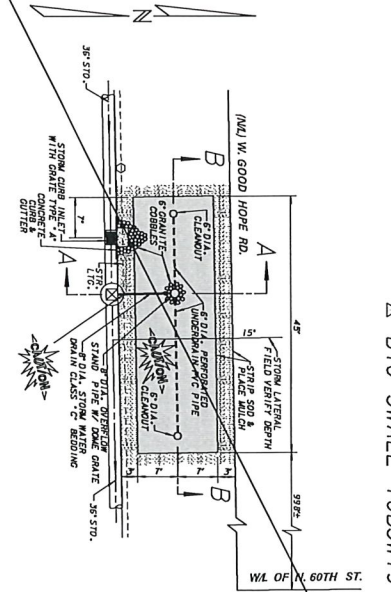
NOTE: DO NOT REMOVE EXISTING FILTER FABRIC, TRAP, TIE-INS AND REPERFORATED UNDERDRAIN SECTION FABRIC "F" ON EITHER SIDE.
SEE DETAIL FOR CURB AND CUTTER REMOVAL AND REPLACEMENT.

- (10) 1/2" DIA. WIREBARK - 'SHARK WINGS'
- (11) 1/2" DIA. WIREBARK - 'SHARK WINGS'
- (12) 1/2" DIA. WIREBARK - 'SHARK WINGS'
- (13) 1/2" DIA. WIREBARK - 'SHARK WINGS'
- (14) 1/2" DIA. WIREBARK - 'SHARK WINGS'
- (15) 1/2" DIA. WIREBARK - 'SHARK WINGS'
- (16) 1/2" DIA. WIREBARK - 'SHARK WINGS'
- (17) 1/2" DIA. WIREBARK - 'SHARK WINGS'
- (18) 1/2" DIA. WIREBARK - 'SHARK WINGS'
- (19) 1/2" DIA. WIREBARK - 'SHARK WINGS'
- (20) 1/2" DIA. WIREBARK - 'SHARK WINGS'



PLANTING PLAN
SCALE: N.T.S.

△ B10-SWALE 18BSW78

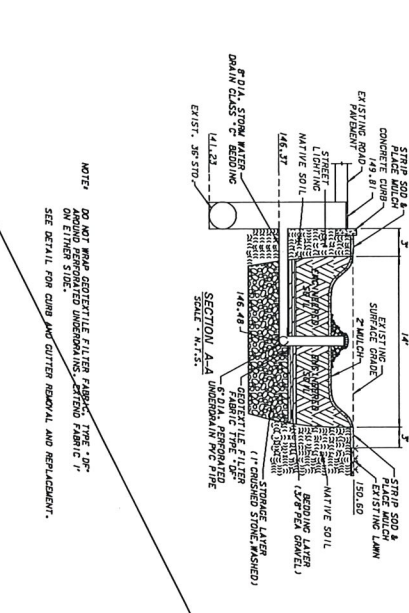


NOTE: DO NOT REMOVE EXISTING FILTER FABRIC, TRAP, TIE-INS AND REPERFORATED UNDERDRAIN SECTION FABRIC "F" ON EITHER SIDE.
SEE DETAIL FOR CURB AND CUTTER REMOVAL AND REPLACEMENT.

- (10) 1/2" DIA. WIREBARK - 'SHARK WINGS'
- (11) 1/2" DIA. WIREBARK - 'SHARK WINGS'
- (12) 1/2" DIA. WIREBARK - 'SHARK WINGS'
- (13) 1/2" DIA. WIREBARK - 'SHARK WINGS'
- (14) 1/2" DIA. WIREBARK - 'SHARK WINGS'
- (15) 1/2" DIA. WIREBARK - 'SHARK WINGS'
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- (19) 1/2" DIA. WIREBARK - 'SHARK WINGS'
- (20) 1/2" DIA. WIREBARK - 'SHARK WINGS'

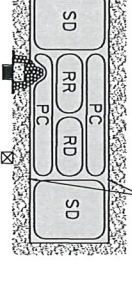


PLANTING PLAN
SCALE: N.T.S.

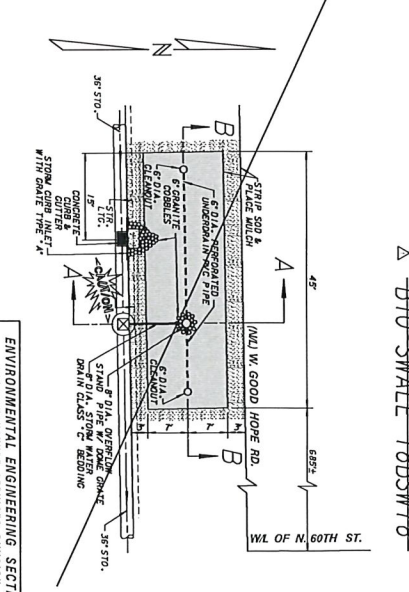


NOTE: DO NOT REMOVE EXISTING FILTER FABRIC, TRAP, TIE-INS AND REPERFORATED UNDERDRAIN SECTION FABRIC "F" ON EITHER SIDE.
SEE DETAIL FOR CURB AND CUTTER REMOVAL AND REPLACEMENT.

- (10) 1/2" DIA. WIREBARK - 'SHARK WINGS'
- (11) 1/2" DIA. WIREBARK - 'SHARK WINGS'
- (12) 1/2" DIA. WIREBARK - 'SHARK WINGS'
- (13) 1/2" DIA. WIREBARK - 'SHARK WINGS'
- (14) 1/2" DIA. WIREBARK - 'SHARK WINGS'
- (15) 1/2" DIA. WIREBARK - 'SHARK WINGS'
- (16) 1/2" DIA. WIREBARK - 'SHARK WINGS'
- (17) 1/2" DIA. WIREBARK - 'SHARK WINGS'
- (18) 1/2" DIA. WIREBARK - 'SHARK WINGS'
- (19) 1/2" DIA. WIREBARK - 'SHARK WINGS'
- (20) 1/2" DIA. WIREBARK - 'SHARK WINGS'



PLANTING PLAN
SCALE: N.T.S.



LINE CODE LEGEND

1	Proposed	2	Existing
3	Proposed	4	Existing
5	Proposed	6	Existing
7	Proposed	8	Existing
9	Proposed	10	Existing
11	Proposed	12	Existing
13	Proposed	14	Existing
15	Proposed	16	Existing
17	Proposed	18	Existing
19	Proposed	20	Existing
21	Proposed	22	Existing
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89	Proposed	90	Existing
91	Proposed	92	Existing
93	Proposed	94	Existing
95	Proposed	96	Existing
97	Proposed	98	Existing
99	Proposed	100	Existing

FOR SPECIAL PROVISIONS SEE PLAN FILE NO. 198-5-118
FOR DETAILS SEE PLAN FILE NO. 251-134
SHEET NO. 1 OF 15 PLAN FILE NO. 251-134
SHEET NO. 2 OF 15 PLAN FILE NO. 251-134
SHEET NO. 3 OF 15 PLAN FILE NO. 251-134
SHEET NO. 4 OF 15 PLAN FILE NO. 251-134
SHEET NO. 5 OF 15 PLAN FILE NO. 251-134
SHEET NO. 6 OF 15 PLAN FILE NO. 251-134
SHEET NO. 7 OF 15 PLAN FILE NO. 251-134
SHEET NO. 8 OF 15 PLAN FILE NO. 251-134
SHEET NO. 9 OF 15 PLAN FILE NO. 251-134
SHEET NO. 10 OF 15 PLAN FILE NO. 251-134
SHEET NO. 11 OF 15 PLAN FILE NO. 251-134
SHEET NO. 12 OF 15 PLAN FILE NO. 251-134
SHEET NO. 13 OF 15 PLAN FILE NO. 251-134
SHEET NO. 14 OF 15 PLAN FILE NO. 251-134
SHEET NO. 15 OF 15 PLAN FILE NO. 251-134



ESTIMATE OF QUANTITIES

ITEM NO.	QUANTITY	DISTRIBUTION
1	1.00	1.00
2	1.00	1.00
3	1.00	1.00
4	1.00	1.00
5	1.00	1.00
6	1.00	1.00
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95	1.00	1.00
96	1.00	1.00
97	1.00	1.00
98	1.00	1.00
99	1.00	1.00
100	1.00	1.00

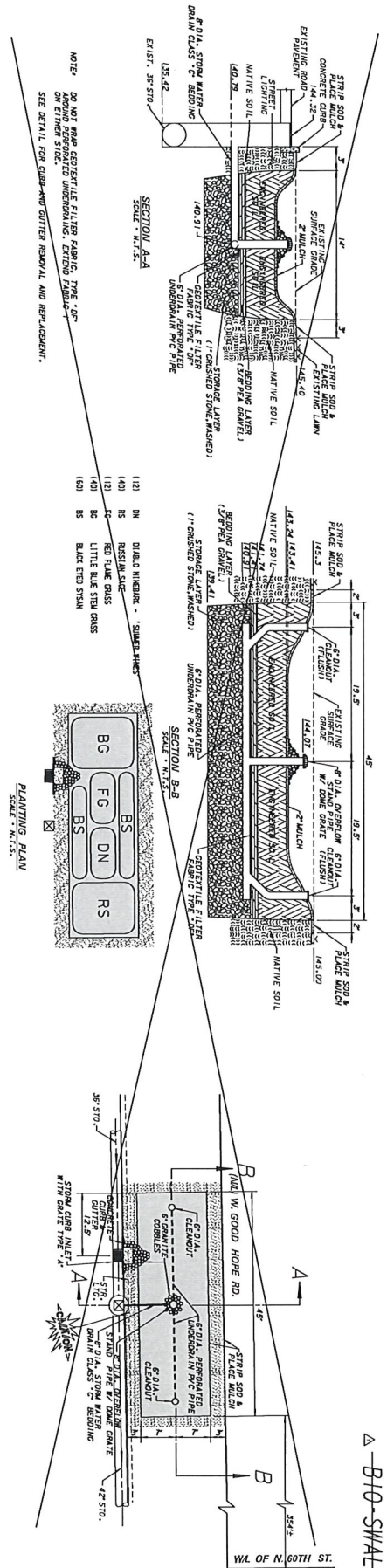
ENVIRONMENTAL ENGINEERING SECTION
INFRASTRUCTURE SERVICES DIVISION
DEPARTMENT OF PUBLIC WORKS
CITY OF MINNEAPOLIS

GREEN STREET B/SWALE PLAN
W. GOOD HOPE ROAD (N/S)
998 1/2 WEST OF N. 60TH STREET

W. GOOD HOPE ROAD (N/S)
688 1/2 WEST OF N. 60TH STREET

DATE: 07-20-2018
DRAWN BY: J. S. [Signature]
CHECKED BY: M. [Signature]
DESIGNED BY: M. [Signature]
PROJECT NO.: 2018-0018
SHEET NO. 19 OF 13 PLAN FILE NO. 251-134

△ B10-SWALE 18BSW77

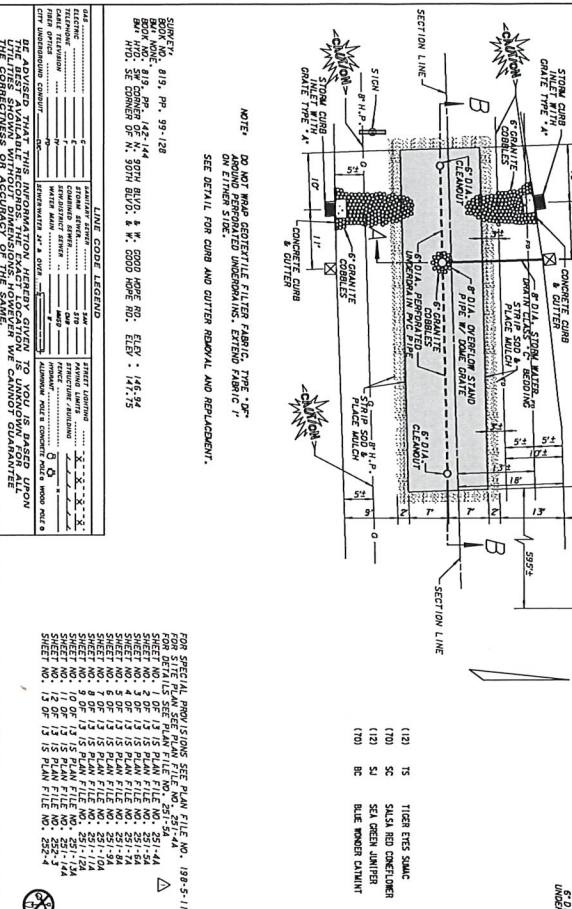


W.L. OF N. 51ST ST.

W.L. OF N. 60TH ST.

(N.W. W. GOOD HOPE RD.)

W.L. OF N. 60TH ST.



ESTIMATE OF QUANTITIES	
ITEM NO.	DESCRIPTION
0001	12" CONCRETE CURB
0002	12" CURB
0003	6" DIA. OVERFLOW CLEANOUT
0004	6" DIA. PERFORATED UNDERDRAIN
0005	18" DIA. STORAGE LAYER
0006	12" DIA. BEDDING
0007	2" WOOD CHIP
0008	1" CONCRETE
0009	1" SAND
0010	1" GRAVEL
0011	1" COARSE AGGREGATE
0012	1" FINE AGGREGATE
0013	1" S&W
0014	1" T&E
0015	1" S&O
0016	1" S&G
0017	1" S&B
0018	1" S&Y
0019	1" S&P
0020	1" S&M
0021	1" S&L
0022	1" S&K
0023	1" S&J
0024	1" S&I
0025	1" S&H
0026	1" S&G
0027	1" S&F
0028	1" S&E
0029	1" S&D
0030	1" S&C
0031	1" S&B
0032	1" S&A
0033	1" S&Z
0034	1" S&Y
0035	1" S&X
0036	1" S&W
0037	1" S&V
0038	1" S&U
0039	1" S&T
0040	1" S&S
0041	1" S&R
0042	1" S&Q
0043	1" S&P
0044	1" S&O
0045	1" S&N
0046	1" S&M
0047	1" S&L
0048	1" S&K
0049	1" S&J
0050	1" S&I
0051	1" S&H
0052	1" S&G
0053	1" S&F
0054	1" S&E
0055	1" S&D
0056	1" S&C
0057	1" S&B
0058	1" S&A
0059	1" S&Z
0060	1" S&Y
0061	1" S&X
0062	1" S&W
0063	1" S&V
0064	1" S&U
0065	1" S&T
0066	1" S&S
0067	1" S&R
0068	1" S&Q
0069	1" S&P
0070	1" S&O
0071	1" S&N
0072	1" S&M
0073	1" S&L
0074	1" S&K
0075	1" S&J
0076	1" S&I
0077	1" S&H
0078	1" S&G
0079	1" S&F
0080	1" S&E
0081	1" S&D
0082	1" S&C
0083	1" S&B
0084	1" S&A
0085	1" S&Z
0086	1" S&Y
0087	1" S&X
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0092	1" S&S
0093	1" S&R
0094	1" S&Q
0095	1" S&P
0096	1" S&O
0097	1" S&N
0098	1" S&M
0099	1" S&L
0100	1" S&K

ENVIRONMENTAL ENGINEERING SECTION
INFRASTRUCTURE SERVICES DIVISION
DEPARTMENT OF PUBLIC WORKS
DIVISION OF TRANSPORTATION, WISCONSIN

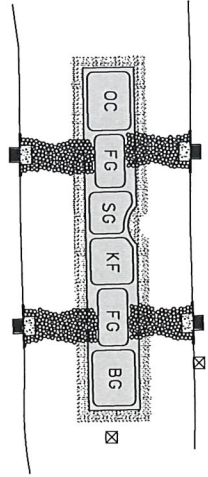
GREEN STREET BIOSWALE PLAN
W. GOOD HOPE ROAD (N/S)
354th WEST OF N. 60TH STREET
595th WEST OF N. 51ST STREET

W. GOOD HOPE ROAD
595th WEST OF N. 51ST STREET

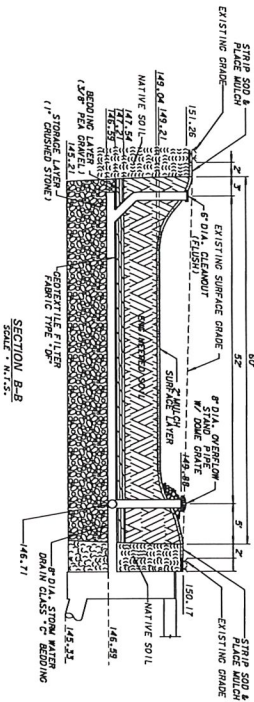
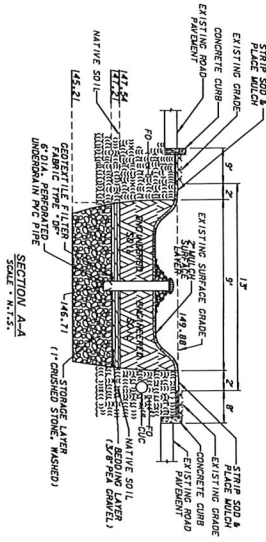
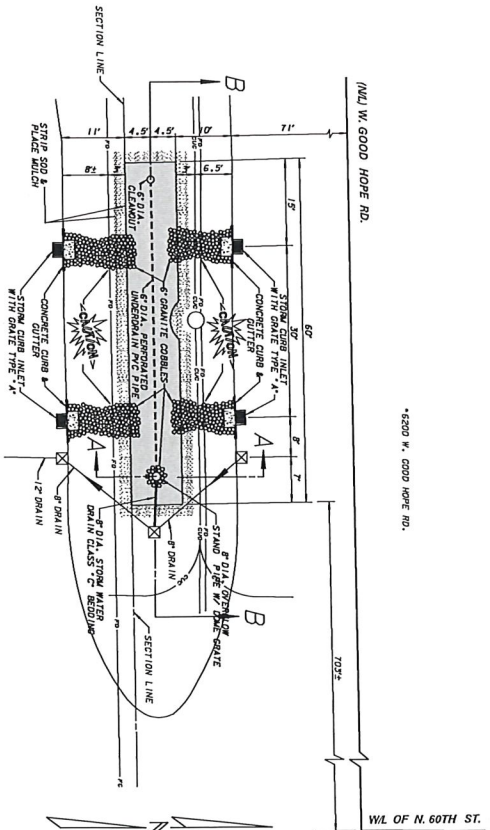
WISCONSIN
NURT B. SPANGLER
REGISTERED PROFESSIONAL ENGINEER
NO. 37171
EXPIRES 12/31/2014

DATE: 07-17-2013
SCALE: AS SHOWN
SHEET NO.: 11 OF 13
PLAN FILE NO.: 251-144

BIO-SWALE 18BSW



- (10) 56 SWITCHGRASS
- (80) 86 LITTLE BLUESTEM GRASS
- (80) 86 RED FLOWER GRASS
- (10) 06 SMOOTHED FLAMEGRASS COMPTONER
- (80) 86 FINE FLEET GRASS



NOTE: DO NOT WARP GEOTEXTILE FILTER FABRIC, TYPE "DF" OVER ANY UNDESIRABLE UNDERDRAIN. EXTEND FABRIC 1' SEE DETAIL FOR CURB AND CUTTER REMOVAL AND REPLACEMENT.

CONTRACT NO. 819, PP. 89-128
 BLDG. NO. 819, PP. 142-144
 801 W. 30TH AVE. & N. GOOD HOPE RD. FILE NO. 146.54
 801 W. 30TH AVE. & N. GOOD HOPE RD. FILE NO. 146.54
 801 W. 30TH AVE. & N. GOOD HOPE RD. FILE NO. 146.54

LINE CODE LEGEND

1	1" CRUSHED STONE	10	10% FINE SAND
2	2" CRUSHED STONE	11	11% FINE SAND
3	3" CRUSHED STONE	12	12% FINE SAND
4	4" CRUSHED STONE	13	13% FINE SAND
5	5" CRUSHED STONE	14	14% FINE SAND
6	6" CRUSHED STONE	15	15% FINE SAND
7	7" CRUSHED STONE	16	16% FINE SAND
8	8" CRUSHED STONE	17	17% FINE SAND
9	9" CRUSHED STONE	18	18% FINE SAND
10	10" CRUSHED STONE	19	19% FINE SAND
20	20% FINE SAND	21	21% FINE SAND
22	22% FINE SAND	23	23% FINE SAND
24	24% FINE SAND	25	25% FINE SAND
26	26% FINE SAND	27	27% FINE SAND
28	28% FINE SAND	29	29% FINE SAND
30	30% FINE SAND	31	31% FINE SAND
32	32% FINE SAND	33	33% FINE SAND
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74	74% FINE SAND	75	75% FINE SAND
76	76% FINE SAND	77	77% FINE SAND
78	78% FINE SAND	79	79% FINE SAND
80	80% FINE SAND	81	81% FINE SAND
82	82% FINE SAND	83	83% FINE SAND
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90	90% FINE SAND	91	91% FINE SAND
92	92% FINE SAND	93	93% FINE SAND
94	94% FINE SAND	95	95% FINE SAND
96	96% FINE SAND	97	97% FINE SAND
98	98% FINE SAND	99	99% FINE SAND
100	100% FINE SAND	101	101% FINE SAND

FOR SPECIAL NOTES SEE PLAN FILE NO. 198-5-116
 FROM DETAILS SEE PLAN FILE NO. 251-54
 SHEET NO. 4 OF 13 PLAN FILE NO. 251-54
 SHEET NO. 5 OF 13 PLAN FILE NO. 251-54
 SHEET NO. 6 OF 13 PLAN FILE NO. 251-54
 SHEET NO. 7 OF 13 PLAN FILE NO. 251-54
 SHEET NO. 8 OF 13 PLAN FILE NO. 251-54
 SHEET NO. 9 OF 13 PLAN FILE NO. 251-54
 SHEET NO. 10 OF 13 PLAN FILE NO. 251-54
 SHEET NO. 11 OF 13 PLAN FILE NO. 251-54
 SHEET NO. 12 OF 13 PLAN FILE NO. 252-4
 SHEET NO. 13 OF 13 PLAN FILE NO. 252-4

CALL DIGGERS NOTICE
 1-800-242-8511
 THE CITY OF WISCONSIN DEPARTMENT OF TRANSPORTATION
 DIVISION OF PUBLIC WORKS

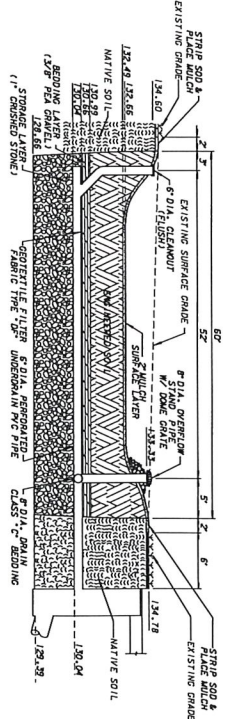
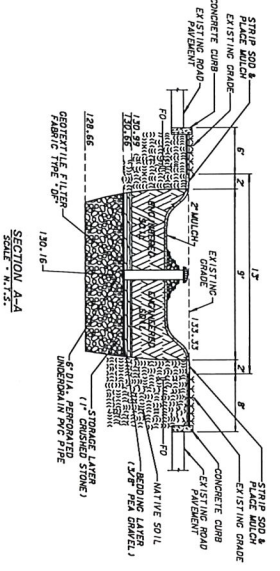
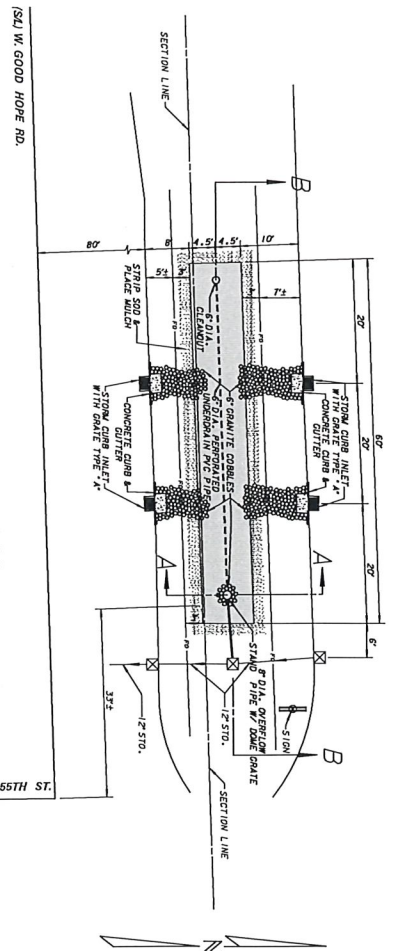
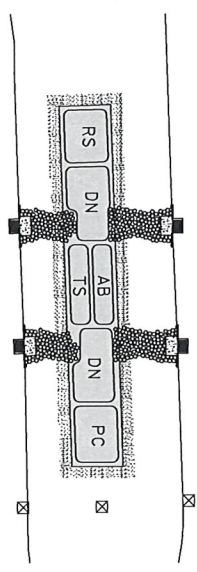


ESTIMATE OF QUANTITIES		ENVIRONMENTAL ENGINEERING SECTION	
ITEM NO.	QUANTITY	DESCRIPTION	INFRAStructure SERVICES DIVISION
40000	15.00	1" DIA. CLEANOUT	DEPARTMENT OF PUBLIC WORKS
40001	15.00	2" DIA. CLEANOUT	WISCONSIN
40002	15.00	3" DIA. CLEANOUT	GREEN STREET BIOSWALE PLAN
40003	15.00	4" DIA. CLEANOUT	AT 703 1/2 WEST OF N. 60TH STREET
40004	15.00	5" DIA. CLEANOUT	W. GOOD HOPE ROAD (N/S)
40005	15.00	6" DIA. CLEANOUT	
40006	15.00	7" DIA. CLEANOUT	
40007	15.00	8" DIA. CLEANOUT	
40008	15.00	9" DIA. CLEANOUT	
40009	15.00	10" DIA. CLEANOUT	
40010	15.00	11" DIA. CLEANOUT	
40011	15.00	12" DIA. CLEANOUT	
40012	15.00	13" DIA. CLEANOUT	
40013	15.00	14" DIA. CLEANOUT	
40014	15.00	15" DIA. CLEANOUT	
40015	15.00	16" DIA. CLEANOUT	
40016	15.00	17" DIA. CLEANOUT	
40017	15.00	18" DIA. CLEANOUT	
40018	15.00	19" DIA. CLEANOUT	
40019	15.00	20" DIA. CLEANOUT	
40020	15.00	21" DIA. CLEANOUT	
40021	15.00	22" DIA. CLEANOUT	
40022	15.00	23" DIA. CLEANOUT	
40023	15.00	24" DIA. CLEANOUT	
40024	15.00	25" DIA. CLEANOUT	
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40031	15.00	32" DIA. CLEANOUT	
40032	15.00	33" DIA. CLEANOUT	
40033	15.00	34" DIA. CLEANOUT	
40034	15.00	35" DIA. CLEANOUT	
40035	15.00	36" DIA. CLEANOUT	
40036	15.00	37" DIA. CLEANOUT	
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40038	15.00	39" DIA. CLEANOUT	
40039	15.00	40" DIA. CLEANOUT	
40040	15.00	41" DIA. CLEANOUT	
40041	15.00	42" DIA. CLEANOUT	
40042	15.00	43" DIA. CLEANOUT	
40043	15.00	44" DIA. CLEANOUT	
40044	15.00	45" DIA. CLEANOUT	
40045	15.00	46" DIA. CLEANOUT	
40046	15.00	47" DIA. CLEANOUT	
40047	15.00	48" DIA. CLEANOUT	
40048	15.00	49" DIA. CLEANOUT	
40049	15.00	50" DIA. CLEANOUT	
40050	15.00	51" DIA. CLEANOUT	
40051	15.00	52" DIA. CLEANOUT	
40052	15.00	53" DIA. CLEANOUT	
40053	15.00	54" DIA. CLEANOUT	
40054	15.00	55" DIA. CLEANOUT	
40055	15.00	56" DIA. CLEANOUT	
40056	15.00	57" DIA. CLEANOUT	
40057	15.00	58" DIA. CLEANOUT	
40058	15.00	59" DIA. CLEANOUT	
40059	15.00	60" DIA. CLEANOUT	
40060	15.00	61" DIA. CLEANOUT	
40061	15.00	62" DIA. CLEANOUT	
40062	15.00	63" DIA. CLEANOUT	
40063	15.00	64" DIA. CLEANOUT	
40064	15.00	65" DIA. CLEANOUT	
40065	15.00	66" DIA. CLEANOUT	
40066	15.00	67" DIA. CLEANOUT	
40067	15.00	68" DIA. CLEANOUT	
40068	15.00	69" DIA. CLEANOUT	
40069	15.00	70" DIA. CLEANOUT	
40070	15.00	71" DIA. CLEANOUT	
40071	15.00	72" DIA. CLEANOUT	
40072	15.00	73" DIA. CLEANOUT	
40073	15.00	74" DIA. CLEANOUT	
40074	15.00	75" DIA. CLEANOUT	
40075	15.00	76" DIA. CLEANOUT	
40076	15.00	77" DIA. CLEANOUT	
40077	15.00	78" DIA. CLEANOUT	
40078	15.00	79" DIA. CLEANOUT	
40079	15.00	80" DIA. CLEANOUT	
40080	15.00	81" DIA. CLEANOUT	
40081	15.00	82" DIA. CLEANOUT	
40082	15.00	83" DIA. CLEANOUT	
40083	15.00	84" DIA. CLEANOUT	
40084	15.00	85" DIA. CLEANOUT	
40085	15.00	86" DIA. CLEANOUT	
40086	15.00	87" DIA. CLEANOUT	
40087	15.00	88" DIA. CLEANOUT	
40088	15.00	89" DIA. CLEANOUT	
40089	15.00	90" DIA. CLEANOUT	
40090	15.00	91" DIA. CLEANOUT	
40091	15.00	92" DIA. CLEANOUT	
40092	15.00	93" DIA. CLEANOUT	
40093	15.00	94" DIA. CLEANOUT	
40094	15.00	95" DIA. CLEANOUT	
40095	15.00	96" DIA. CLEANOUT	
40096	15.00	97" DIA. CLEANOUT	
40097	15.00	98" DIA. CLEANOUT	
40098	15.00	99" DIA. CLEANOUT	
40099	15.00	100" DIA. CLEANOUT	

DATE: 08-20-2018
 TIME: 10:30 AM
 DRAWN BY: K. S. S...
 CHECKED BY: M. J. S...
 PROJECT: GREEN STREET BIOSWALE PLAN
 SHEET NO. 12 OF 13 PLAN FILE NO. 252-3

BIO-SWALE 18BSW

- (180) RS ROSSIGN SWALE - "LITTLE SPINES"
- (180) DN DIABLO VIBRATOR - "SMALLER RINGS"
- (180) PC PAPER CONCRETE
- (170) AB ALUMINUM BARS
- (170) TS TIGER'S EYE SAND



NOTE: DO NOT REMOVE GEOTEXTILE FILTER FABRIC, TYPE "G", AND/OR PERFORATED UNDERDRAINS, EXTEND FABRIC 1' BEYOND CURB AND CUTTER RIM, AND RE-PLACEMENT. SEE DETAIL FOR CURB AND CUTTER RIM, AND RE-PLACEMENT.

LINE CODE LEGEND

1	CONCRETE CURB	2	EXISTING ROAD
3	EXISTING GRADE	4	EXISTING GRADE
5	EXISTING GRADE	6	EXISTING GRADE
7	EXISTING GRADE	8	EXISTING GRADE
9	EXISTING GRADE	10	EXISTING GRADE
11	EXISTING GRADE	12	EXISTING GRADE
13	EXISTING GRADE	14	EXISTING GRADE
15	EXISTING GRADE	16	EXISTING GRADE
17	EXISTING GRADE	18	EXISTING GRADE
19	EXISTING GRADE	20	EXISTING GRADE
21	EXISTING GRADE	22	EXISTING GRADE
23	EXISTING GRADE	24	EXISTING GRADE
25	EXISTING GRADE	26	EXISTING GRADE
27	EXISTING GRADE	28	EXISTING GRADE
29	EXISTING GRADE	30	EXISTING GRADE
31	EXISTING GRADE	32	EXISTING GRADE
33	EXISTING GRADE	34	EXISTING GRADE
35	EXISTING GRADE	36	EXISTING GRADE
37	EXISTING GRADE	38	EXISTING GRADE
39	EXISTING GRADE	40	EXISTING GRADE
41	EXISTING GRADE	42	EXISTING GRADE
43	EXISTING GRADE	44	EXISTING GRADE
45	EXISTING GRADE	46	EXISTING GRADE
47	EXISTING GRADE	48	EXISTING GRADE
49	EXISTING GRADE	50	EXISTING GRADE
51	EXISTING GRADE	52	EXISTING GRADE
53	EXISTING GRADE	54	EXISTING GRADE
55	EXISTING GRADE	56	EXISTING GRADE
57	EXISTING GRADE	58	EXISTING GRADE
59	EXISTING GRADE	60	EXISTING GRADE
61	EXISTING GRADE	62	EXISTING GRADE
63	EXISTING GRADE	64	EXISTING GRADE
65	EXISTING GRADE	66	EXISTING GRADE
67	EXISTING GRADE	68	EXISTING GRADE
69	EXISTING GRADE	70	EXISTING GRADE
71	EXISTING GRADE	72	EXISTING GRADE
73	EXISTING GRADE	74	EXISTING GRADE
75	EXISTING GRADE	76	EXISTING GRADE
77	EXISTING GRADE	78	EXISTING GRADE
79	EXISTING GRADE	80	EXISTING GRADE
81	EXISTING GRADE	82	EXISTING GRADE
83	EXISTING GRADE	84	EXISTING GRADE
85	EXISTING GRADE	86	EXISTING GRADE
87	EXISTING GRADE	88	EXISTING GRADE
89	EXISTING GRADE	90	EXISTING GRADE
91	EXISTING GRADE	92	EXISTING GRADE
93	EXISTING GRADE	94	EXISTING GRADE
95	EXISTING GRADE	96	EXISTING GRADE
97	EXISTING GRADE	98	EXISTING GRADE
99	EXISTING GRADE	100	EXISTING GRADE

FOR SPECIAL PROVISIONS SEE PLAN FILE NO. 189-5-118
 FOR DETAILS SEE PLAN FILE NO. 252-4
 SHEET NO. 1 OF 15 PLAN FILE NO. 252-4
 SHEET NO. 2 OF 15 PLAN FILE NO. 252-4
 SHEET NO. 3 OF 15 PLAN FILE NO. 252-4
 SHEET NO. 4 OF 15 PLAN FILE NO. 252-4
 SHEET NO. 5 OF 15 PLAN FILE NO. 252-4
 SHEET NO. 6 OF 15 PLAN FILE NO. 252-4
 SHEET NO. 7 OF 15 PLAN FILE NO. 252-4
 SHEET NO. 8 OF 15 PLAN FILE NO. 252-4
 SHEET NO. 9 OF 15 PLAN FILE NO. 252-4
 SHEET NO. 10 OF 15 PLAN FILE NO. 252-4
 SHEET NO. 11 OF 15 PLAN FILE NO. 252-4
 SHEET NO. 12 OF 15 PLAN FILE NO. 252-4
 SHEET NO. 13 OF 15 PLAN FILE NO. 252-4
 SHEET NO. 14 OF 15 PLAN FILE NO. 252-4
 SHEET NO. 15 OF 15 PLAN FILE NO. 252-4

CALL DIGGERS NOTLINE
 1-800-242-8511
 916-431-2200
 916-431-2201
 916-431-2202
 916-431-2203
 916-431-2204
 916-431-2205
 916-431-2206
 916-431-2207
 916-431-2208
 916-431-2209
 916-431-2210
 916-431-2211
 916-431-2212
 916-431-2213
 916-431-2214
 916-431-2215
 916-431-2216
 916-431-2217
 916-431-2218
 916-431-2219
 916-431-2220



ITEM NO.	QUANTITY	DESCRIPTION	UNIT
1000	1.00	CONCRETE CURB	LINEAL FOOT
1001	1.00	EXISTING ROAD	SQ. YARD
1002	1.00	EXISTING GRADE	SQ. YARD
1003	1.00	EXISTING GRADE	SQ. YARD
1004	1.00	EXISTING GRADE	SQ. YARD
1005	1.00	EXISTING GRADE	SQ. YARD
1006	1.00	EXISTING GRADE	SQ. YARD
1007	1.00	EXISTING GRADE	SQ. YARD
1008	1.00	EXISTING GRADE	SQ. YARD
1009	1.00	EXISTING GRADE	SQ. YARD
1010	1.00	EXISTING GRADE	SQ. YARD
1011	1.00	EXISTING GRADE	SQ. YARD
1012	1.00	EXISTING GRADE	SQ. YARD
1013	1.00	EXISTING GRADE	SQ. YARD
1014	1.00	EXISTING GRADE	SQ. YARD
1015	1.00	EXISTING GRADE	SQ. YARD
1016	1.00	EXISTING GRADE	SQ. YARD
1017	1.00	EXISTING GRADE	SQ. YARD
1018	1.00	EXISTING GRADE	SQ. YARD
1019	1.00	EXISTING GRADE	SQ. YARD
1020	1.00	EXISTING GRADE	SQ. YARD
1021	1.00	EXISTING GRADE	SQ. YARD
1022	1.00	EXISTING GRADE	SQ. YARD
1023	1.00	EXISTING GRADE	SQ. YARD
1024	1.00	EXISTING GRADE	SQ. YARD
1025	1.00	EXISTING GRADE	SQ. YARD
1026	1.00	EXISTING GRADE	SQ. YARD
1027	1.00	EXISTING GRADE	SQ. YARD
1028	1.00	EXISTING GRADE	SQ. YARD
1029	1.00	EXISTING GRADE	SQ. YARD
1030	1.00	EXISTING GRADE	SQ. YARD
1031	1.00	EXISTING GRADE	SQ. YARD
1032	1.00	EXISTING GRADE	SQ. YARD
1033	1.00	EXISTING GRADE	SQ. YARD
1034	1.00	EXISTING GRADE	SQ. YARD
1035	1.00	EXISTING GRADE	SQ. YARD
1036	1.00	EXISTING GRADE	SQ. YARD
1037	1.00	EXISTING GRADE	SQ. YARD
1038	1.00	EXISTING GRADE	SQ. YARD
1039	1.00	EXISTING GRADE	SQ. YARD
1040	1.00	EXISTING GRADE	SQ. YARD
1041	1.00	EXISTING GRADE	SQ. YARD
1042	1.00	EXISTING GRADE	SQ. YARD
1043	1.00	EXISTING GRADE	SQ. YARD
1044	1.00	EXISTING GRADE	SQ. YARD
1045	1.00	EXISTING GRADE	SQ. YARD
1046	1.00	EXISTING GRADE	SQ. YARD
1047	1.00	EXISTING GRADE	SQ. YARD
1048	1.00	EXISTING GRADE	SQ. YARD
1049	1.00	EXISTING GRADE	SQ. YARD
1050	1.00	EXISTING GRADE	SQ. YARD

ENVIRONMENTAL ENGINEERING SECTION
 DEPARTMENT OF PUBLIC WORKS
 WISCONSIN DIVISION
 GREEN STREET BIOSWALE PLAN
 W. GOOD HOPE ROAD
 337 ± WEST OF N. 55TH STREET
 SHEET NO. 13 OF 15 PLAN FILE NO. 252-4