AGREEMENT FOR MAINTENANCE OR OTHER ROADSIDE LANDSCAPING WITHIN MILWAUKEE COUNTY TRUNK HIGHWAY (CTH) RIGHT-OF-WAY AGREEMENT NO. 2018S1

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 S, West Mill Road, from approximately N. 49th St. to N. 89th 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 2017 approved plans for City of Milwaukee Plan File No. 248-33 through 248-42, CTH S, West Mill Road, from approximately N. 49th St. to N. 89th 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. 248-33 through 248-42, CTH S, West Mill Road, from approximately N. 49th St. to N. 89th 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 facilites, 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:

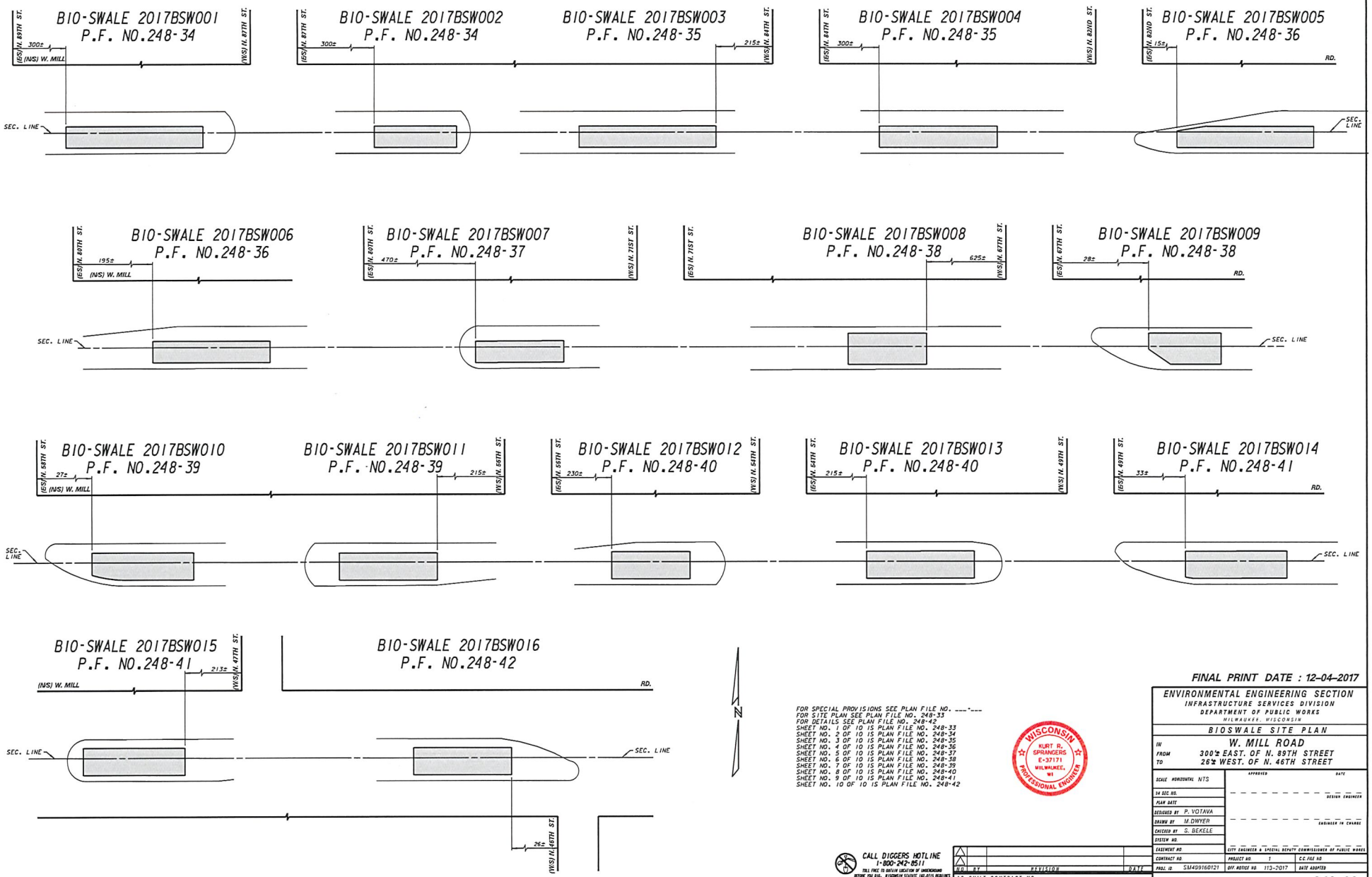
	Interim Director, Department of Transportation (MCDOT)	
Signature	Title	Date

James Martin
Name (Written Clearly)

Signed for and on behalf of the City of Milwaukee:

	Commissioner of Public Works	
Signature	Title	Date

Ghassan A. Korban
Name (Written Clearly)



FOR SPECIAL PROVISIONS SEE PLAN FILE NO. ---'---
FOR SITE PLAN SEE PLAN FILE NO. 248-33
FOR DETAILS SEE PLAN FILE NO. 248-42
SHEET NO. 1 OF 10 IS PLAN FILE NO. 248-33
SHEET NO. 2 OF 10 IS PLAN FILE NO. 248-34
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WISCONSIN
KURT R. SPRANGERS
E-37171
MILWAUKEE, WI
PROFESSIONAL ENGINEER

CALL DIGGERS HOTLINE
1-800-242-8511
TOLL FREE TO OBTAIN LOCATION OF UNDERGROUND
BEFORE YOU DIG. WISCONSIN STATUTE 182.0175 REQUIRES
MIN. OF 3 WORK DAYS NOTICE BEFORE YOU EXCAVATE

NO.	BY	REVISION	DATE

AS BUILT CONTRACT NO.
DATE ENT'D. ENT'D. BY

FINAL PRINT DATE : 12-04-2017

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

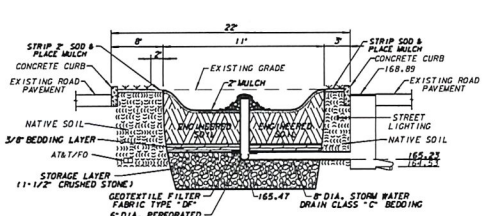
BIOSWALE SITE PLAN

IN W. MILL ROAD
FROM 300'± EAST. OF N. 89TH STREET
TO 26'± WEST. OF N. 46TH STREET

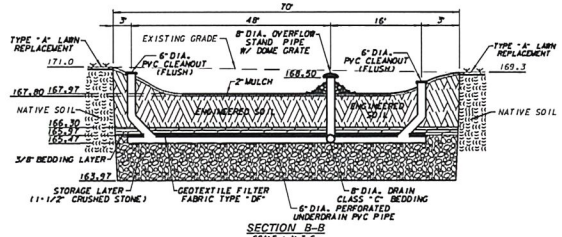
SCALE HORIZONTAL NTS	APPROVED DATE
S4 SEC NO.	DESIGN ENGINEER
PLAN DATE	
DESIGNED BY P. VOTAVA	
DRAWN BY M.DWYER	ENGINEER IN CHARGE
CHECKED BY S. BEKELE	
SYSTEM NO.	
EASEMENT NO.	CITY ENGINEER & SPECIAL DEPUTY COMMISSIONER OF PUBLIC WORKS
CONTRACT NO.	PROJECT NO. 1 / C.C. FILE NO.
PROJ. ID SM49016012I	OFF. NOTICE NO. 113-2017 / DATE ADOPTED

SHEET NO. 1 OF 10 PLAN FILE NO. 248-33

BIO-SWALE NO. 1

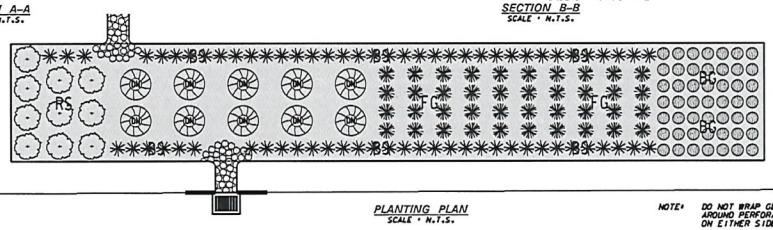


SECTION A-A
SCALE - N.T.S.



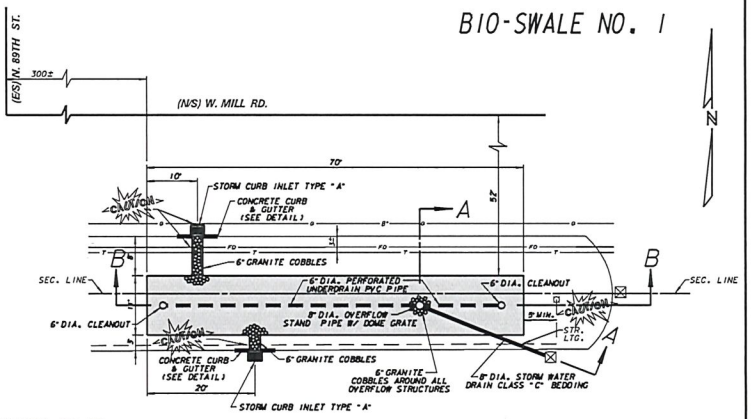
SECTION B-B
SCALE - N.T.S.

(10)	DN	DIABLO NINEBARK - "SUMMER WINE"
(10)	RS	RUSSIAN SAGE - "LITTLE SPIRE"
(40)	FG	RED FLAME GRASS
(50)	BG	LITTLE BLUESTEM GRASS
(70)	BS	BLACK EYED SUSAN



PLANTING PLAN
SCALE - N.T.S.

NOTE: DO NOT WRAP GEOTEXTILE FILTER FABRIC, TYPE "DF" AROUND PERFORATED UNDERDRAINS. EXTEND FABRIC 1' ON EITHER SIDE.



SECTION LINE IS C/L OF ROADWAY OF W. MILL RD.

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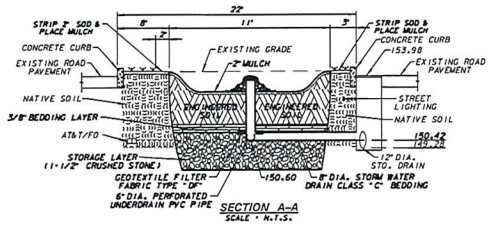
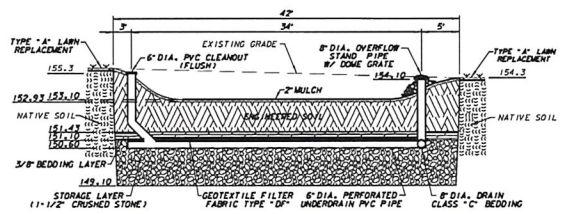
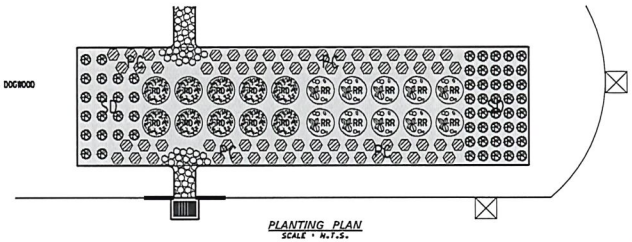


SECTION A-A
SCALE - N.T.S.



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

(10)	RD	ISANTI DWARF RED TWIG DOGWOOD
(10)	RR	RUGOSA ROSES
(60)	SD	SHASTA DAISIES
(70)	PC	PURPLE CONEFLOWER



PLANTING PLAN
SCALE - N.T.S.

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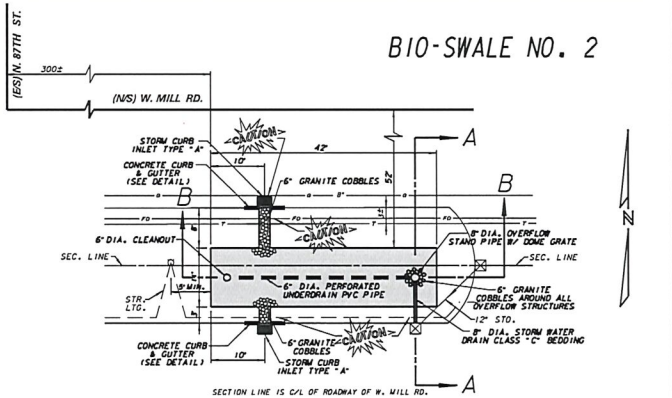

SECTION LINE IS C/L OF ROADWAY OF W. MILL RD.

FOR SPECIAL PROVISIONS SEE PLAN FILE NO. ---"---
FOR SITE PLAN SEE PLAN FILE NO. 248-33
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SHEET NO. 9 OF 10 IS PLAN FILE NO. 248-41
SHEET NO. 10 OF 10 IS PLAN FILE NO. 248-42

SURVEY:
BOOK NO. 815, PP. 21
BM STANDARD BENCHMARK 58-34, ON NW. CORNER OF N. 84TH ST. AND W. MILL RD. ELEV. 153.85
HYDRANT (NW. BOLT), ON E/S *8447 W. MILL RD. ELEV. 152.84
HYDRANT (NW. BOLT), ON W/S *8537 W. MILL RD. ELEV. 156.29
HYDRANT (NW. BOLT), ON SE CORNER OF N. 87TH ST. AND W. MILL RD. ELEV. 160.76
HYDRANT (NW. BOLT), ON W/S *8821 W. MILL RD. ELEV. 175.20

LINE CODE LEGEND

GAS	G	SANITARY SEWER	SAN
ELECTRIC	E	STORM SEWER	STO
TELEPHONE	T	COMBINED SEWER	CMB
CABLE TELEVISION	TV	NEW DISTRICT SEWER	NMSD
FIBER OPTICS	FO	WATER MAIN	W
CITY UNDERGROUND CONDUIT	CUC	SEWERWATER 24" & OVER	
STREET LIGHTING			
PAVING LIMITS			
STRUCTURE / BUILDING			
FENCE	X		
HYDRANT			
ALUMINUM POLE	CONCRETE POLE	WOOD POLE	

BE ADVISED THAT THIS INFORMATION HEREBY GIVEN TO YOU IS BASED UPON THE BEST AVAILABLE RECORDS. THE EXACT LOCATION IS UNKNOWN FOR ALL UTILITIES SHOWN WITHOUT DIMENSIONS. HOWEVER WE CANNOT GUARANTEE THE CORRECTNESS OR ACCURACY OF THE SAME.

CALL DIGGERS HOTLINE
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TOLL FREE TO OBTAIN LOCATION OF UNDERGROUND
BEFORE YOU DIG. WISCONSIN STATUTE 182.0175 REQUIRES
NOTIFICATION OF 3 WORK DAYS BEFORE YOU EXCAVATE

NO.	BY	REVISION	DATE

AS BUILT CONTRACT NO.
DATE ENT'D ENT'D. BY

ESTIMATE OF QUANTITIES

ITEM NO.	QUANTITY	DESCRIPTION
44010	4	STORM CURB INLETS WITH GRATE TYPE "A"
50025	31 SQ. YDS	TYPE "A" LAWN REPLACEMENT
50039	34 FT	6" DIA. STORM WATER DRAIN, CLASS "C" BED
50043	89 SQ. YDS	6" GRANITE COBBLES
50100	38	PAVEMENT DOWELS
50316	40 FT	CONCRETE CURB AND GUTTER
70061	88 FT	6" DIA PERFORATED UNDERDRAIN PVC PIPE
70064	3	6" DIA PVC CLEANOUTS
91056	106 CU. YDS	ENGINEERED SOIL
91154	24 SQ. YDS	GEOTEXTILE FILTER FABRIC TYPE "DF"
91160	93 CU. YDS.	1-1/2" CRUSHED STONE
92005	274 CU. YDS	EXCAVATION AND OFFSITE DISPOSAL
92034	7	8" DIA OVERFLOW STAND PIPES W/GRATE
92043	16 CU. YDS.	3/8" BEDDING LAYER
92091	11 CU. YDS.	SHREDDED HARDWOOD BARK MULCH
95009	330	PLANT POTS
95015	1	INFORMATIONAL SIGN POST

WISCONSIN
KURT R. SPRANGERS
E-37171
MILWAUKEE, WI
PROFESSIONAL ENGINEER

FINAL PRINT DATE : 12-04-2017

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

GREEN STREET BIOSWALE PLAN

W. MILL ROAD
AT 300'± EAST OF N. 89TH STREET

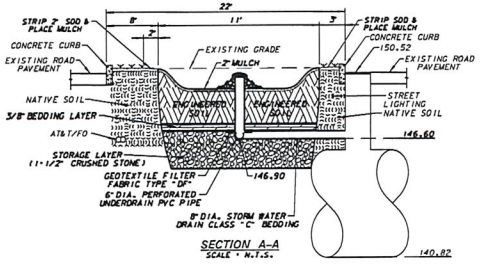
W. MILL ROAD
AT 300'± EAST OF N. 87TH STREET

SCALE	HORIZONTAL 1" = 10' VERTICAL 1" = NTS	APPROVED / DATE
14 SEC. NO.	14-3, 15-2	DESIGN ENGINEER
PLAN DATE		
DESIGNED BY	P. VOTAVA	
DRAWN BY	M. DWYER	ENGINEER IN CHARGE
CHECKED BY	S. BEKELE	
SYSTEM NO.	2080, 2082	
EASEMENT NO.		CITY ENGINEER & SPECIAL DEPUTY COMMISSIONER OF PUBLIC WORKS
CONTRACT NO.		PROJECT NO. / C.C. FILE NO.
PROJ. ID	SM499160121	DEV. NOTICE NO. 113-2017 / DATE ADOPTED

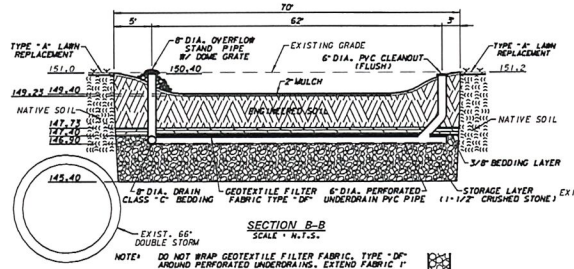
SHEET NO. 2 OF 10 PLAN FILE NO. 248-34

MADE _____ SCANNED _____ MICROFILMED _____

BIO-SWALE NO. 3



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



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

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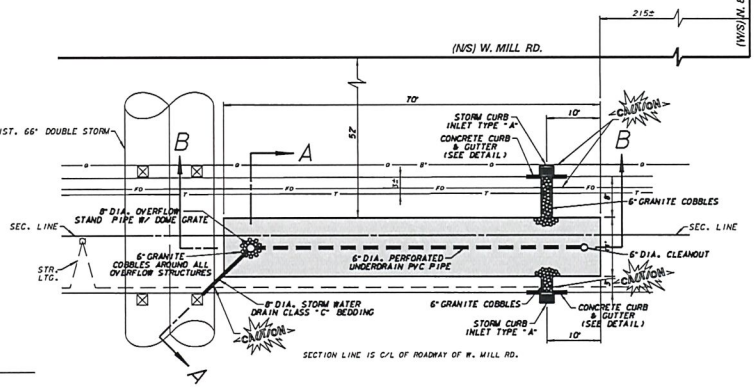
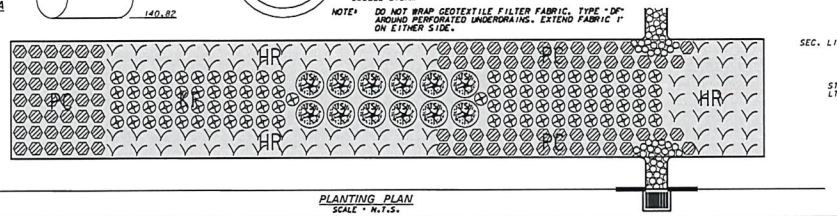
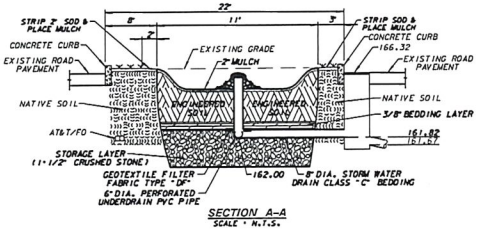




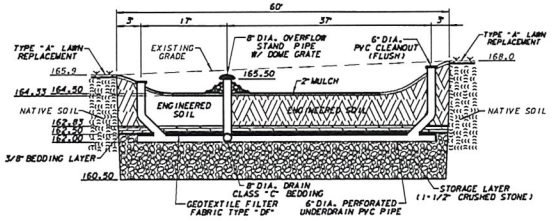
(12)	TS	TIGER EYE SUMAC
(80)	HR	HAPPY RETURN DAYLILIES
(90)	KF	KARL FOERSTER GRASS
(100)	PC	PURPLE CONEFLOWER

PLANTING PLAN
SCALE = N.T.S.

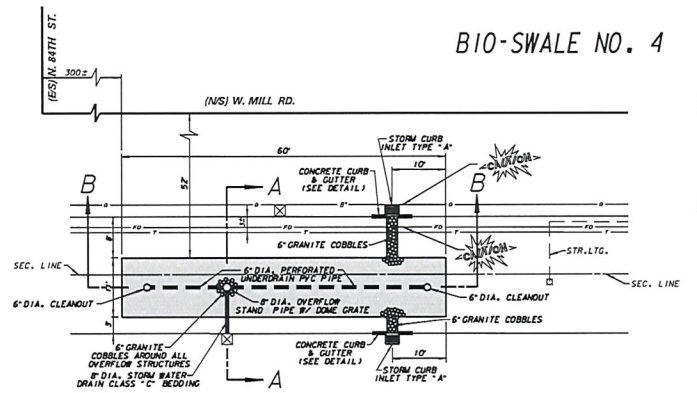
BIO-SWALE NO. 4

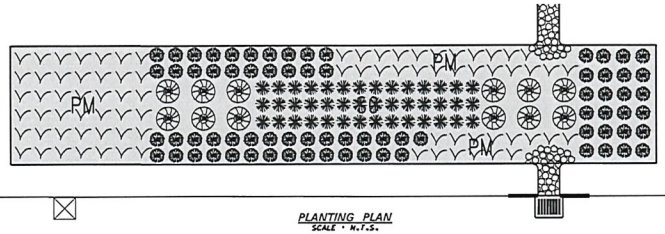


SECTION A-A
SCALE = N.T.S.



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





(12)	DN	DIABLO NINEBARK - "SUMMER WINE"
(40)	SG	SWITCH GRASS
(73)	MM	MONTROSE WHITE CALAMINT
(88)	PM	PARDON ME DAYLILIES

PLANTING PLAN
SCALE = N.T.S.

SURVEY:
BOOK NO. 815, PP. 21
BM: STANDARD BENCHMARK 58-34, ON NW. CORNER OF N. 84TH ST. AND W. MILL RD. ELEV. 153.85
HYDRANT (NW. BOLT), ON E/S *8447 W. MILL RD. ELEV. 152.84
HYDRANT (NW. BOLT), ON W/S *8537 W. MILL RD. ELEV. 156.29
HYDRANT (NW. BOLT), ON SE CORNER OF N. 87TH ST. AND W. MILL RD. ELEV. 160.76
HYDRANT (NW. BOLT), ON W/S *8821 W. MILL RD. ELEV. 175.20

SURVEY:
BOOK NO. 815, PP. 24
BM: STANDARD BENCHMARK 58-34, ON NW. CORNER OF N. 84TH ST. AND W. MILL RD. ELEV. 153.85
HYDRANT (NW. BOLT), IN FRONT OF *8201 W. MILL RD. ELEV. 179.81
HYDRANT (NW. BOLT), ON SE. CORNER OF N. 80TH ST. AND W. MILL RD. ELEV. 185.09
HYDRANT (NW. BOLT), ON E/SIDE OF *7901 W. MILL RD. ELEV. 182.95
HYDRANT (NW. BOLT), ON SW. CORNER OF N. 77TH ST. AND W. MILL RD. ELEV. 165.04
HYDRANT (NW. BOLT), ON SE. CORNER OF N. 76TH ST. AND W. MILL RD. ELEV. 155.97

NOTE: DO NOT WRAP GEOTEXTILE FILTER FABRIC, TYPE "DF" AROUND PERFORATED UNDERDRAINS. EXTEND FABRIC 1' ON EITHER SIDE.

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WISCONSIN
KURT R. SPRANGERS
E-37171
MILWAUKEE, WI
PROFESSIONAL ENGINEER

CALL DIGGERS HOTLINE
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LINE CODE LEGEND

GAS	G	SANITARY SEWER	SAN
ELECTRIC	E	STORM SEWER	STM
TELEPHONE	T	COMBINED SEWER	CMB
CABLE TELEVISION	TV	MMSD DISTRICT SEWER	MMSD
FIBER OPTICS	FO	WATER MAIN	W
CITY UNDERGROUND CONDUIT	CUC	SEWER/WATER 24" & OVER	

STREET LIGHTING
PAVING LIMITS
STRUCTURE / BUILDING
FENCE
HYDRANT
ALUMINUM POLE ⊖ CONCRETE POLE ⊖ WOOD POLE ⊖

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ESTIMATE OF QUANTITIES

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50043	10 SQ. YDS.	6" GRANITE COBBLES
50200	16	PAVEMENT DOWELS
50316	40 FT.	CONCRETE CURB AND GUTTER
70061	114 FT.	6" DIA PERFORATED UNDERDRAIN PVC PIPE
70064	2	6" DIA. PVC CLEANOUTS
91056	124 CU. YDS.	ENGINEERED SOIL
91154	29 SQ. YDS.	GEOTEXTILE FILTER FABRIC TYPE "DF"
91160	107 CU. YDS.	1 1/2" CRUSHED STONE
92005	370 CU. YDS.	EXCAVATION AND OFFSITE DISPOSAL
92034	2	8" DIA. OVERFLOW STAND PIPES W/GRATE
92043	19 CU. YDS.	3/8" BEDDING LAYER
93001	13 CU. YDS.	SHREDDED HARDWOOD BARK MULCH
95009	495	PLANT PODS
95015	1	INFORMATIONAL SIGN POST

NO.	BY	REVISION	DATE

AS BUILT CONTRACT NO.
DATE ENT'D ENT'D BY

FINAL PRINT DATE : 12-04-2017

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

GREEN STREET BIOSWALE PLAN

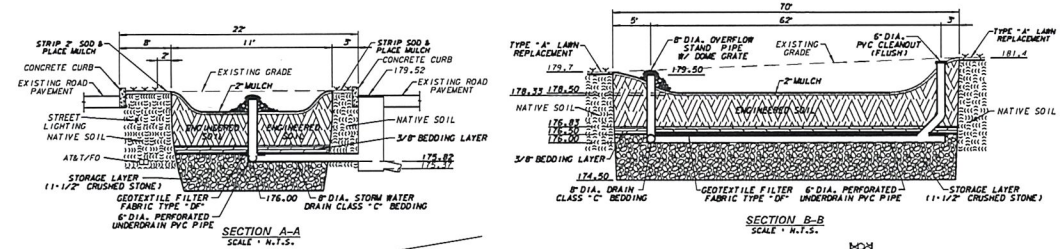
W. MILL ROAD
AT 215'± WEST OF N. 84TH STREET

W. MILL ROAD
AT 300'± EAST OF N. 84TH STREET

SCALE HORIZONTAL 1" = 10' VERTICAL 1" = NTS
APPROVED DATE
DESIGN ENGINEER
ENGINEER IN CHARGE
14 SEC. 80.142, 143, 152, 153
PLAN DATE
DESIGNED BY P. VOTAVA
DRAWN BY M. DWYER
CHECKED BY S. BEKELE
SYSTEM NO. 2083
EASEMENT NO.
CITY ENGINEER & SPECIAL DEPUTY COMMISSIONER OF PUBLIC WORKS
CONTRACT NO.
PROJECT NO. 1 CC FILE NO.
PREL NO. SM499160121 BFF NOTICE NO. 113-2017 DATE ADOPTED

SHEET NO. 3 OF 10 PLAN FILE NO. 248-35

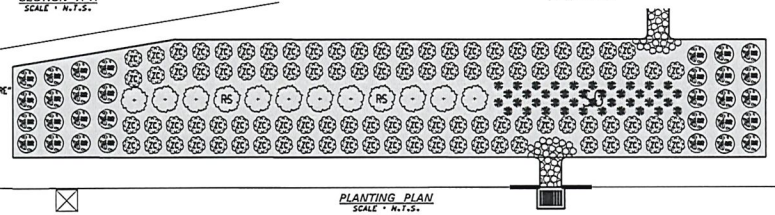
MADE SCANNED MICROFILMED



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

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

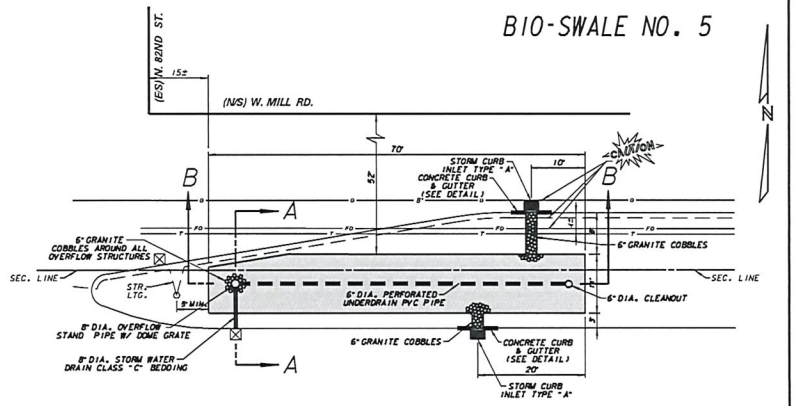
(12)	RS	RUSSIAN SAGE - "LITTLE SPIRE"
(31)	RR	RUGOSA ROSES
(40)	SG	INDIAN STEEL GRASS
(98)	ZC	ZAGREB COREOPSIS



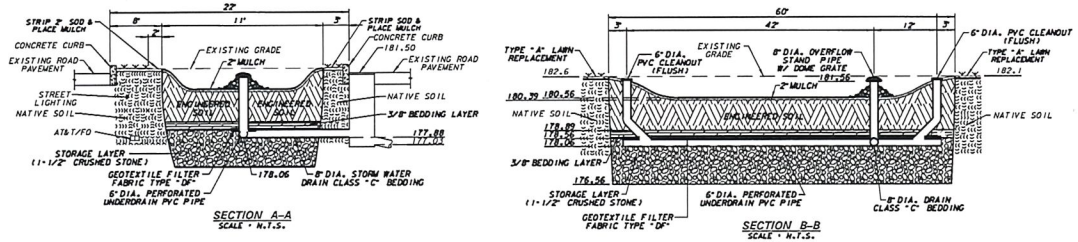
PLANTING PLAN
SCALE = N.T.S.

NOTE: DO NOT WRAP GEOTEXTILE FILTER FABRIC, TYPE "DF" AROUND PERFORATED UNDERDRAINS. EXTEND FABRIC 1' ON EITHER SIDE.

BIO-SWALE NO. 5



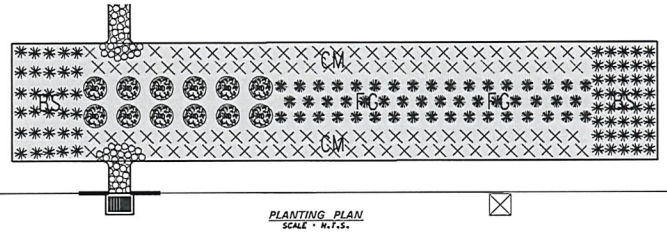
SECTION LINE IS C/L OF ROADWAY OF W. MILL RD.



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

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

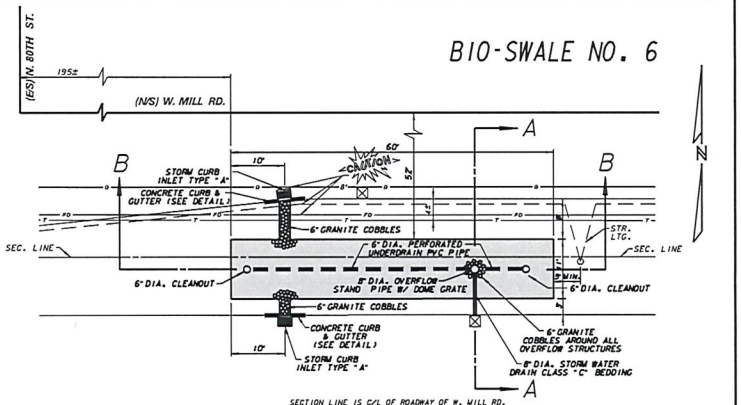
(12)	RO	ISANTI DWARF RED TWIG DOGWOOD
(50)	FG	FLAME GRASS
(70)	BS	BLACK EYED SUSANS
(108)	CM	BLUE WONDER CATMINT



PLANTING PLAN
SCALE = N.T.S.

NOTE: DO NOT WRAP GEOTEXTILE FILTER FABRIC, TYPE "DF" AROUND PERFORATED UNDERDRAINS. EXTEND FABRIC 1' ON EITHER SIDE.

BIO-SWALE NO. 6



SECTION LINE IS C/L OF ROADWAY OF W. MILL RD.

FINAL PRINT DATE : 12-04-2017

SURVEY:
BOOK NO. 815, PP. 24
BM: STANDARD BENCHMARK 58-34, ON NW. CORNER OF N. 84TH ST. AND W. MILL RD. ELEV. 153.85
HYDRANT (NW. BOLT), IN FRONT OF #8201 W. MILL RD. ELEV. 179.81
HYDRANT (NW. BOLT), ON SE. CORNER OF N. 80TH ST. AND W. MILL RD. ELEV. 185.09
HYDRANT (NW. BOLT), ON E/SIDE OF #7901 W. MILL RD. ELEV. 182.95
HYDRANT (NW. BOLT), ON SW. CORNER OF N. 77TH ST. AND W. MILL RD. ELEV. 165.04
HYDRANT (NW. BOLT), ON SE. CORNER OF N. 76TH ST. AND W. MILL RD. ELEV. 155.97

FOR SPECIAL PROVISIONS SEE PLAN FILE NO. ---'---
FOR SITE PLAN SEE PLAN FILE NO. 248-33
FOR DETAILS SEE PLAN FILE NO. 248-42
SHEET NO. 1 OF 10 IS PLAN FILE NO. 248-33
SHEET NO. 2 OF 10 IS PLAN FILE NO. 248-34
SHEET NO. 3 OF 10 IS PLAN FILE NO. 248-35
SHEET NO. 4 OF 10 IS PLAN FILE NO. 248-36
SHEET NO. 5 OF 10 IS PLAN FILE NO. 248-37
SHEET NO. 6 OF 10 IS PLAN FILE NO. 248-38
SHEET NO. 7 OF 10 IS PLAN FILE NO. 248-39
SHEET NO. 8 OF 10 IS PLAN FILE NO. 248-40
SHEET NO. 9 OF 10 IS PLAN FILE NO. 248-41
SHEET NO. 10 OF 10 IS PLAN FILE NO. 248-42

LINE CODE LEGEND

GAS	SANITARY SEWER — SAN	STREET LIGHTING
ELECTRIC — E	STORM SEWER — STO	PAVING LIMITS
TELEPHONE — T	COMBINED SEWER — CMB	STRUCTURE / BUILDING
CABLE TELEVISION — TV	MSD DISTRICT SEWER — MSD	FENCE — I
FIBER OPTICS — FO	WATER MAIN	HYDRANT
CITY UNDERGROUND CONDUIT — CUC	SEWER/WATER 24" & OVER	ALUMINUM POLE & CONCRETE POLE & WOOD POLE

BE ADVISED THAT THIS INFORMATION HEREBY GIVEN TO YOU IS BASED UPON THE BEST AVAILABLE RECORDS. THE EXACT LOCATION IS UNKNOWN FOR ALL UTILITIES SHOWN WITHOUT DIMENSIONS, HOWEVER WE CANNOT GUARANTEE THE CORRECTNESS OR ACCURACY OF THE SAME.

CALL DIGGERS HOTLINE
1-800-242-8511
TOLL FREE TO OBTAIN LOCATION OF UNDERGROUND
BEFORE YOU DIG. WISCONSIN STATUTE 182.0175 REQUIRES
NOT. OF 3 WORK DAYS NOTICE BEFORE YOU EXCAVATE

NO.	BY	REVISION	DATE

AS BUILT CONTRACT NO.
DATE ENT'D. ENT'D. BY

WISCONSIN
KURT R. SPRANGERS
E-37171
MILWAUKEE, WI
PROFESSIONAL ENGINEER

ESTIMATE OF QUANTITIES

ITEM NO.	QUANTITY	DESCRIPTION
44010	4	STORM CURB INLETS WITH GRATE TYPE "A"
50025	25 SQ. YDS.	TYPE "A" LAWN REPLACEMENT
50039	18 FT.	6" DIA. STORM WATER DRAIN, CLASS "C" BED
50043	19 SQ. YDS.	6" GRANITE COBBLES
50059	36	PAVEMENT DOWELS
50076	40 FT.	CONCRETE CURB AND GUTTER
70061	116 FT.	6" DIA. PERFORATED UNDERDRAIN PVC PIPE
70064	3	6" DIA. PVC CLEANOUTS
91056	114 CU. YT	ENGINEERED SOIL
91154	29 SQ. YDS.	GEOTEXTILE FILTER FABRIC, TYPE "DF"
91160	107 CU. YDS.	1 1/2" CRUSHED STONE
92001	303 CU. YDS.	EXCAVATION AND DESITE DISPOSAL
92034	2	8" DIA. OVERFLOW STAND PIPES W/GRATE
92043	19 CU. YDS.	3/8" BEDDING LAYER
93001	13 CU. YDS.	SHREDDED HARDWOOD BARK MULCH
95009	421	PLANT POTS
95015	1	INFORMATIONAL SIGN POST

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

GREEN STREET BIOSWALE PLAN

W. MILL ROAD
AT 15'± EAST OF N. 82ND STREET

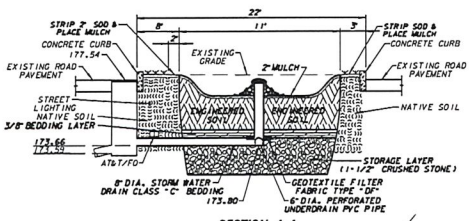
W. MILL ROAD
AT 195'± EAST OF N. 80TH STREET

SCALE HORIZONTAL 1" = 10' VERTICAL 1" = NTS	APPROVED	DATE
14 SEC. NO. 142, 153		DESIGN ENGINEER
PLAN DATE		
DESIGNED BY P. VOTAVA		ENGINEER IN CHARGE
DRAWN BY M. DWYER		
CHECKED BY S. BEKELE		
SYSTEM NO. 2083.2100		
EASEMENT NO.	CITY ENGINEER & SPECIAL DEPUTY COMMISSIONER OF PUBLIC WORKS	
CONTRACT NO.	PROJECT NO. 1	E.C. FILE NO.
PREC. ID SIM499160121	OFF. NOTICE NO. 113-2017	DATE ADOPTED

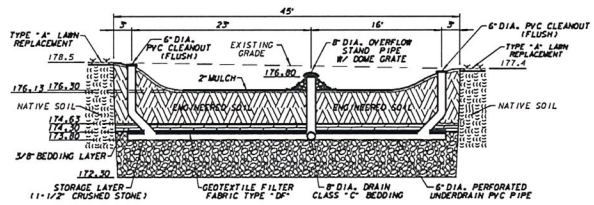
SHEET NO. 4 OF 10 PLAN FILE NO. 248-36

MICRO _____ SCANNED _____ MICROFILMED _____

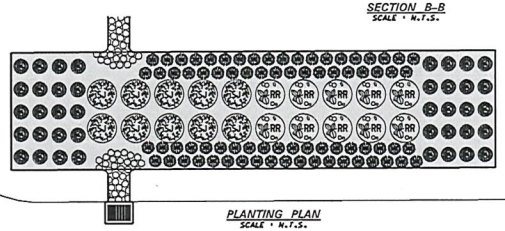
BIO-SWALE NO. 7



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



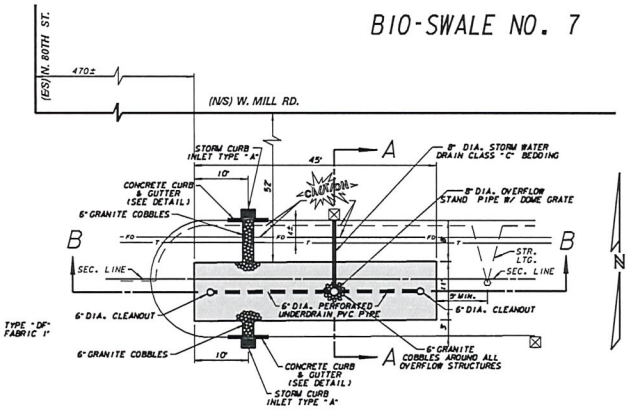
SECTION B-B
SCALE : N.T.S.



(10)	RR	RUGOSA ROSES
(10)	SJ	SEA GREEN JUNIPER
(40)	MS	WAY NIGHT SALVIA
(76)	MW	MONTROSE WHITE CALAMINT

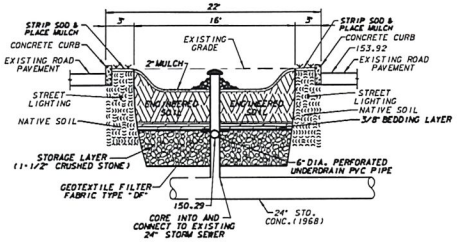
NOTE: DO NOT WRAP GEOTEXTILE FILTER FABRIC, TYPE "DF" AROUND PERFORATED UNDERDRAINS. EXTEND FABRIC 1' ON EITHER SIDE.

PLANTING PLAN
SCALE : N.T.S.

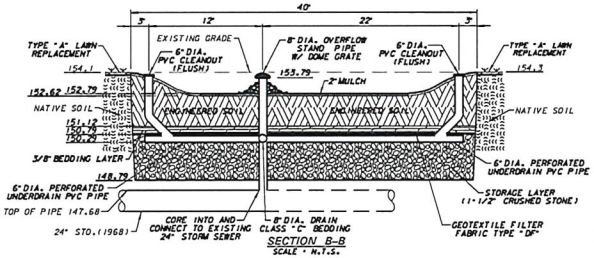


SECTION LINE IS C/L OF ROADWAY OF W. MILL RD.

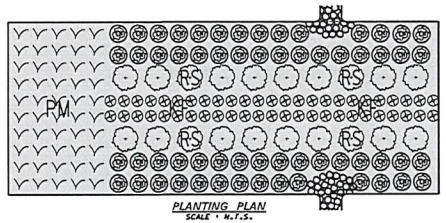
BIO-SWALE NO. 8



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



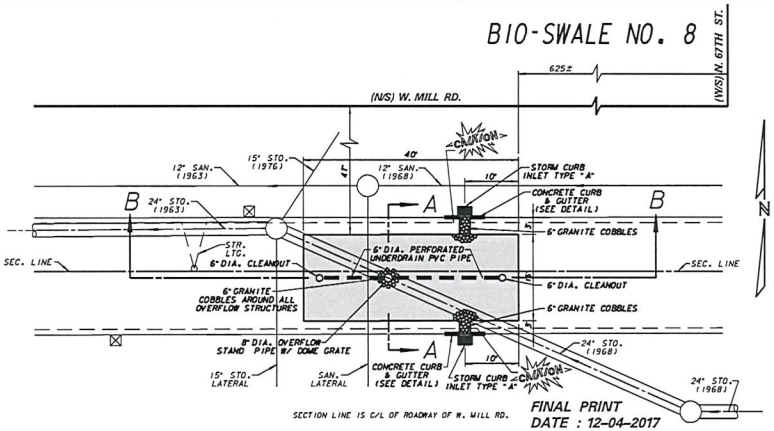
SECTION B-B
SCALE : N.T.S.



(20)	RS	RUSSIAN SAGE - "LITTLE SPIRE"
(50)	KF	KARL FOERSTER GRASS
(50)	PM	PARDON ME DAYLILY
(60)	CH	COOL SPLASH HONEYSUCKLE

PLANTING PLAN
SCALE : N.T.S.

NOTE: DO NOT WRAP GEOTEXTILE FILTER FABRIC, TYPE "DF" AROUND PERFORATED UNDERDRAINS. EXTEND FABRIC 1' ON EITHER SIDE.



SECTION LINE IS C/L OF ROADWAY OF W. MILL RD.

FINAL PRINT
DATE : 12-04-2017

SURVEY:
BOOK NO. 815, PP. 24
BM: STANDARD BENCHMARK 58-34, ON NW. CORNER OF N. 84TH ST. AND W. MILL RD. ELEV. 153.85
HYDRANT (NW. BOLT), IN FRONT OF +8201 W. MILL RD. ELEV. 179.81
HYDRANT (NW. BOLT), ON SE. CORNER OF N. 80TH ST. AND W. MILL RD. ELEV. 185.09
HYDRANT (NW. BOLT), ON E/SIDE OF +7901 W. MILL RD. ELEV. 182.95
HYDRANT (NW. BOLT), ON SW. CORNER OF N. 77TH ST. AND W. MILL RD. ELEV. 165.04
HYDRANT (NW. BOLT), ON SE. CORNER OF N. 76TH ST. AND W. MILL RD. ELEV. 155.97

SURVEY:
BOOK NO. 815, PP. 28
BM: HYDRANT (NW. BOLT), ON SE. CORNER OF N. 76TH ST. AND W. MILL RD. ELEV. 155.97
HYDRANT (NW. BOLT), ON SW. CORNER OF N. 73RD ST. AND W. MILL RD. ELEV. 155.85
HYDRANT (NW. BOLT), ON NW. CORNER OF N. 71ST ST. AND W. MILL RD. ELEV. 153.94
HYDRANT (NW. BOLT), ON NW. CORNER OF N. 67TH ST. AND W. MILL RD. ELEV. 163.03

SURVEY:
BOOK NO. 815, PP. 31
BM: HYDRANT (NW. BOLT), ON SW. CORNER OF N. 67TH ST. AND W. MILL RD. ELEV. 163.03
HYDRANT (NW. BOLT), IN FRONT OF +6604 W. MILL RD. ELEV. 163.57
HYDRANT (NW. BOLT), ON SE. CORNER OF N. 64TH ST. AND W. MILL RD. ELEV. 143.36
HYDRANT (NW. BOLT), IN FRONT OF "RITE WAY BUS COMPANY" (+6301 W. MILL RD.) ELEV. 134.42
HYDRANT (NW. BOLT), 300' WEST OF N. 60TH ST., S/SIDE OF W. MILL RD. ELEV. 124.02
HYDRANT (NW. BOLT), ON NW. CORNER OF N. 60TH ST. AND W. MILL RD. ELEV. 113.29

FOR SPECIAL PROVISIONS SEE PLAN FILE NO. ----
FOR SITE PLAN SEE PLAN FILE NO. 248-33
FOR DETAILS SEE PLAN FILE NO. 248-42
SHEET NO. 1 OF 10 IS PLAN FILE NO. 248-33
SHEET NO. 2 OF 10 IS PLAN FILE NO. 248-34
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SHEET NO. 6 OF 10 IS PLAN FILE NO. 248-38
SHEET NO. 7 OF 10 IS PLAN FILE NO. 248-39
SHEET NO. 8 OF 10 IS PLAN FILE NO. 248-40
SHEET NO. 9 OF 10 IS PLAN FILE NO. 248-41
SHEET NO. 10 OF 10 IS PLAN FILE NO. 248-42

LINE CODE LEGEND

GAS	G	SANITARY SEWER	SAN	STREET LIGHTING	
ELECTRIC	E	STORM SEWER	STO	PAVING LIMITS	
TELEPHONE	T	COMBINED SEWER	CMB	STRUCTURE / BUILDING	
CABLE TELEVISION	TV	SEMI-DISTRICT SEWER	SWED	FENCE	
FIBER OPTICS	FO	WATER MAIN	W	HYDRANT	
CITY UNDERGROUND CONDUIT	CUC	SEWER/WATER 24" & OVER		ALUMINUM POLE / CONCRETE POLE / WOOD POLE	

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1-800-242-8511
TOLL FREE TO OBTAIN LOCATION OF UNDERGROUND
BEFORE YOU DIG. WISCONSIN STATUTE 182.0175 REQUIRES
MIN. OF 3 WORK DAYS NOTICE BEFORE YOU EXCAVATE

NO.	BY	REVISION	DATE

AS BUILT CONTRACT NO.
DATE ENT'D. ENT'D. BY

WISCONSIN
KURT R. SPRANGERS
E-37171
MILWAUKEE, WI
PROFESSIONAL ENGINEER

ESTIMATE OF QUANTITIES

ITEM NO.	QUANTITY	DESCRIPTION
44010	2	STORM CURB INLETS WITH GRATE TYPE "A"
50025	13 SQ YDS.	TYPE "A" LAWN REPLACEMENT
50030	14 FT.	6" DIA. STORM WATER DRAIN, CLASS "C" BED
50043	6 SQ YDS.	6" GRANITE COBBLES
50300	18	PAVEMENT DOWELS
50316	20 FT.	CONCRETE CURB AND GUTTER
70061	39 FT.	6" DIA PERFORATED UNDERDRAIN PVC PIPE
70064	1	6" DIA. PVC CLEANOUTS
91056	37 CU YDS.	ENGINEERED SOIL
91154	18 SQ YDS.	GEOTEXTILE FILTER FABRIC, TYPE "DF"
91160	37 CU YDS.	1 1/2" CRUSHED STONE
92005	105 SQ YDS.	EXCAVATION AND OFFSITE DISPOSAL
92034	1	8" DIA. OVERFLOW STAND PIPE W/GRATE
92043	7 CU YDS.	3/8" BEDDING LAYER
93001	5 CU YDS.	SHREDDED HARDWOOD BARK MULCH
95009	136	PLANT POTS
99015	1	INFORMATIONAL SIGN POST

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

GREEN STREET BIOSWALE PLAN

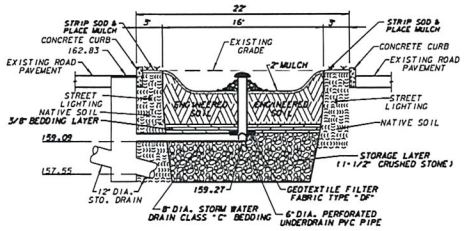
W. MILL ROAD
AT 470'± EAST OF N. 80TH STREET

W. MILL ROAD
AT 625'± WEST OF N. 67TH STREET

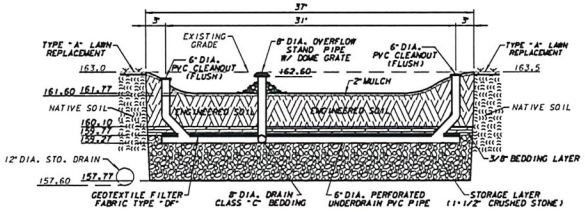
SCALE	HORIZONTAL 1"=10' VERTICAL 1"=NTS	APPROVED	DATE
S4 SEC 86.141, 142, 153, 154		DESIGN ENGINEER	
PLAN DATE			
DESIGNED BY	P.V./E.B.		
DRAWN BY	M.DWYER	ENGINEER IN CHARGE	
CHECKED BY	S.BEKELE		
SYSTEM NO.	2100	CITY ENGINEER & SPECIAL DEPUTY COMMISSIONER OF PUBLIC WORKS	
EASEMENT NO.			
CONTRACT NO.		PROJECT NO. 1	CC FILE NO.
PROJ. ID	SM499160121	OFF NOTICE NO. 113-2017	DATE ADOPTED

SHEET NO. 5 OF 10 PLAN FILE NO. 248-37

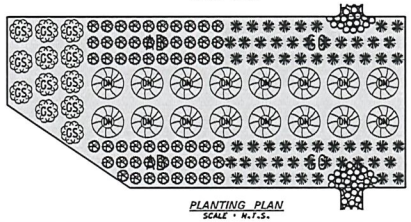
MICRO _____ SCANNED _____ MICROFILMED _____



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



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

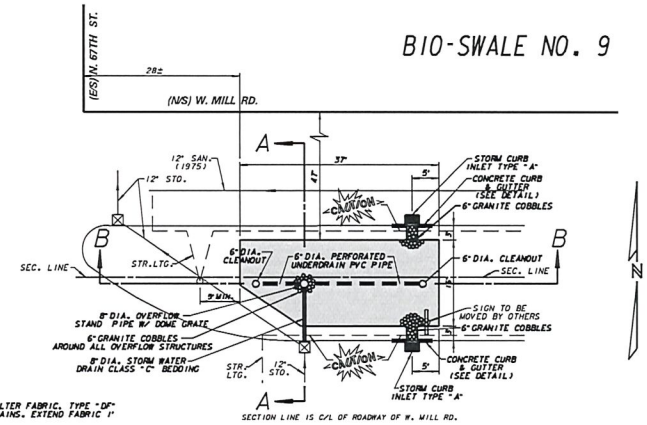


(12)	GS	GROW LOW SUMAC
(16)	DM	DIABLO NINEBARK - "SUMMER WINE"
(60)	SG	INDIAN STEEL GRASS
(67)	AB	AGASTACHE BLUE FORTUNE

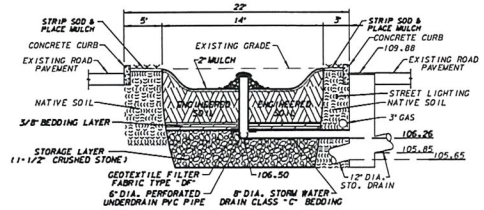
PLANTING PLAN
SCALE : N.T.S.

NOTE: DO NOT WRAP GEOTEXTILE FILTER FABRIC, TYPE "DF" AROUND PERFORATED UNDERDRAINS. EXTEND FABRIC 1' ON EITHER SIDE.

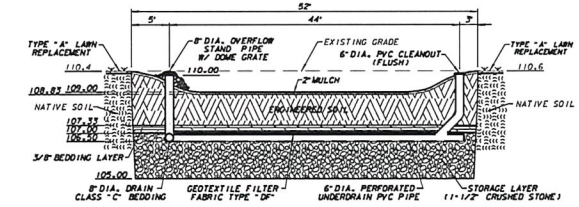
BIO-SWALE NO. 9



SECTION LINE IS C/L OF ROADWAY OF W. MILL RD.

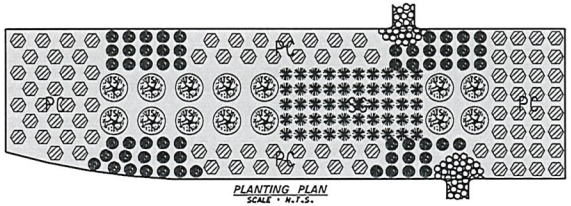


SECTION A-A
SCALE : N.T.S.



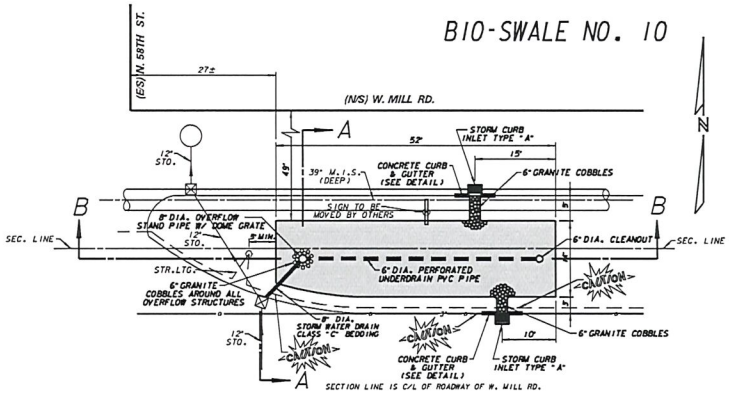
SECTION B-B
SCALE : N.T.S.

(14)	TS	TIGER EYES SUMAC
(50)	SG	SWITCH GRASS
(60)	NS	MAY NIGHT SALVIA
(90)	PC	PURPLE CONEFLOWER



PLANTING PLAN
SCALE : N.T.S.

BIO-SWALE NO. 10



SECTION LINE IS C/L OF ROADWAY OF W. MILL RD.

FINAL PRINT DATE : 12-04-2017

SURVEY:
BOOK NO. 815, PP. 31

BM: HYDRANT (NW. BOLT), ON SW. CORNER OF N. 67TH ST. AND W. MILL RD.	ELEV.	163.03
HYDRANT (NW. BOLT), IN FRONT OF "6604" W. MILL RD.	ELEV.	163.57
HYDRANT (NW. BOLT), ON SE. CORNER OF N. 64TH ST. AND W. MILL RD.	ELEV.	143.36
HYDRANT (NW. BOLT), IN FRONT OF "RITE WAY BUS COMPANY" (*6301 W. MILL RD.)	ELEV.	134.42
HYDRANT (NW. BOLT), 300' WEST OF N. 60TH ST., S/SIDE OF W. MILL RD.	ELEV.	124.02
HYDRANT (NW. BOLT), ON NW. CORNER OF N. 60TH ST. AND W. MILL RD.	ELEV.	113.29

SURVEY:
BOOK NO. 815, PP. 34

BM: HYDRANT (NW. BOLT), ON NW. CORNER OF N. 60TH ST. AND W. MILL RD.	ELEV.	113.29
HYDRANT (NW. BOLT), ON NE. CORNER OF N. 58TH ST. AND W. MILL RD.	ELEV.	112.08
HYDRANT (NW. BOLT), IN FRONT OF "5737" W. MILL RD.	ELEV.	111.38
HYDRANT (NW. BOLT), ON SW. CORNER OF N. 56TH ST. AND W. MILL RD.	ELEV.	115.88
HYDRANT (NW. BOLT), ON NE. CORNER OF N. 54TH ST. AND W. MILL RD.	ELEV.	120.75
HYDRANT (NW. BOLT), IN FRONT OF "5307" W. MILL RD.	ELEV.	118.14
HYDRANT (NW. BOLT), ON SW. CORNER OF N. 52ND ST. AND W. MILL RD.	ELEV.	110.59

NOTE: DO NOT WRAP GEOTEXTILE FILTER FABRIC, TYPE "DF" AROUND PERFORATED UNDERDRAINS. EXTEND FABRIC 1' ON EITHER SIDE.

FOR SPECIAL PROVISIONS SEE PLAN FILE NO. ---"---
FOR SITE PLAN SEE PLAN FILE NO. 248-33
FOR DETAILS SEE PLAN FILE NO. 248-42
SHEET NO. 1 OF 10 IS PLAN FILE NO. 248-33
SHEET NO. 2 OF 10 IS PLAN FILE NO. 248-34
SHEET NO. 3 OF 10 IS PLAN FILE NO. 248-35
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SHEET NO. 8 OF 10 IS PLAN FILE NO. 248-40
SHEET NO. 9 OF 10 IS PLAN FILE NO. 248-41
SHEET NO. 10 OF 10 IS PLAN FILE NO. 248-42

WISCONSIN KURT R. SPRANGERS E-37171 MILWAUKEE, WI PROFESSIONAL ENGINEER

CALL DIGGERS HOTLINE 1-800-242-8511
TOLL FREE TO OBTAIN LOCATION OF UNDERGROUND BEFORE YOU DIG. WISCONSIN STATUTE 182.0175 REQUIRES MIN. OF 3 WORK DAYS NOTICE BEFORE YOU EXCAVATE

NO.	BY	REVISION	DATE

AS BUILT CONTRACT NO.
DATE ENT'D ENT'D BY

ESTIMATE OF QUANTITIES

ITEM NO.	QUANTITY	DESCRIPTION
44010	4	STORM CURB INLETS WITH GRATE TYPE "A"
50025	20 SQ. YDS.	TYPE "A" LAWN REPLACEMENT
50030	11 FT.	6" DIA. STORM WATER DRAIN, CLASS "C" BED
50043	6 SQ. YDS.	6" GRANITE COBBLES
50200	36	PAVEMENT DOWELS
50316	40 FT.	CONCRETE CURB AND GUTTER
70061	65 FT.	6" DIA. PERFORATED UNDERDRAIN PVC PIPE
70064	4	6" DIA. PVC CLEANOUTS
91056	87 CU. YT.	ENGINEERED SOIL
91154	15 SQ. YDS.	GEOTEXTILE FILTER FABRIC, TYPE "DF"
91160	90 CU. YDS.	1 1/2" CRUSHED STONE
92005	250 CU. YDS.	EXCAVATION AND OFFSITE DISPOSAL
92034	2	8" DIA. OVERFLOW STAND PIPES, WEIGHATE
92043	15 CU. YDS.	3/8" BEDDING LAYER
93001	11 CU. YDS.	SHREDDED HARDWOOD BARK MULCH
95009	335	PLANT POTS
95015	1	INFORMATIONAL SIGN POST

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

GREEN STREET BIOSWALE PLAN

W. MILL ROAD
AT 28'± EAST OF N. 67TH STREET

W. MILL ROAD
AT 27'± EAST OF N. 58TH STREET

SCALE HORIZONTAL 1" = 10' VERTICAL 1" = NTS
IN SEC. NO. 139, 140, 155, 156
PLAN DATE
DESIGNED BY P.V./E.B.
DRAWN BY M.DWYER
CHECKED BY S.BEKELE
SYSTEM NO. 2099
EASEMENT NO.
CONTRACT NO.
PROJ. ID SM499160121

APPROVED DATE
DESIGN ENGINEER
ENGINEER IN CHARGE
CITY ENGINEER & SPECIAL DEPUTY COMMISSIONER OF PUBLIC WORKS
PROJECT NO. 1 C.C. FILE NO.
OFF. NOTICE NO. 113-2017 DATE ADOPTED

SHEET NO. 6 OF 10 PLAN FILE NO. 248-38

LINE CODE LEGEND

GAS	G	SANITARY SEWER	SAN	STREET LIGHTING	
ELECTRIC	E	STORM SEWER	STO	PAVING LIMITS	
TELEPHONE	T	COMBINED SEWER	CMB	STRUCTURE / BUILDING	
CABLE TELEVISION	TV	SEW. DISTRICT SEWER	MSD	FENCE	
FIBER OPTICS	FO	WATER MAIN	W	HYDRANT	
CITY UNDERGROUND CONDUIT	CUC	SEWER/WATER 24" & OVER		ALUMINUM POLE & CONCRETE POLE & WOOD POLE	

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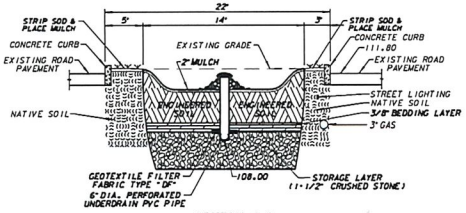
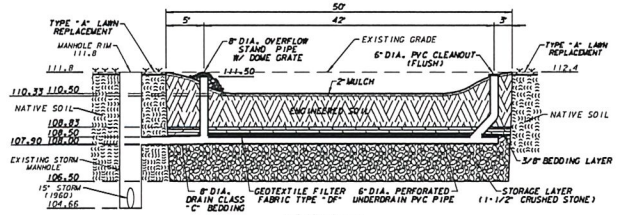
WMS _____ SCANNED _____ MICROFILMED _____



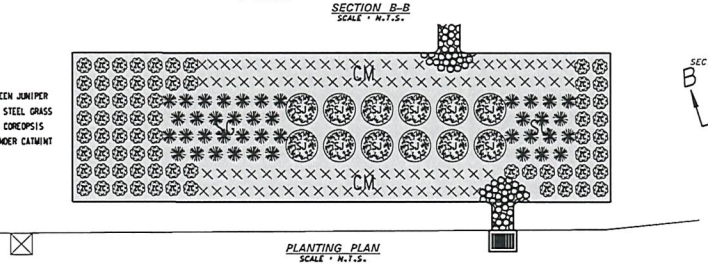
SECTION A-A
SCALE : N.T.S.



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

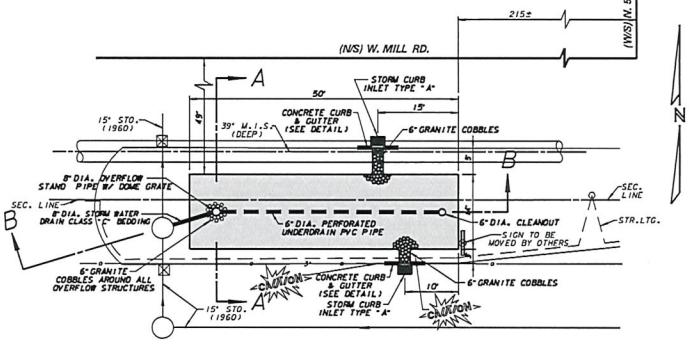
NOTE: DO NOT WRAP GEOTEXTILE FILTER FABRIC, TYPE "DF" AROUND PERFORATED UNDERDRAINS. EXTEND FABRIC 1' ON EITHER SIDE.

(12)	SJ	SEA GREEN JUNIPER
(40)	SG	INDIAN STEEL GRASS
(70)	ZC	ZAGREB COREOPSIS
(90)	CM	BLUEBONDER CATMINT

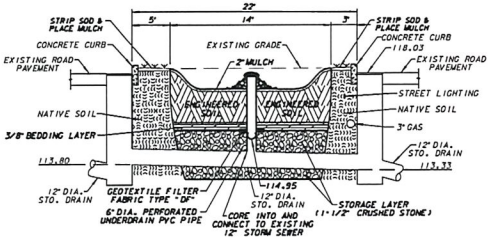


PLANTING PLAN
SCALE : N.T.S.

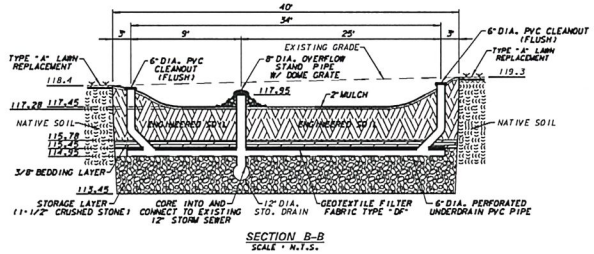
BIO-SWALE NO. 11



SECTION LINE IS C/L OF ROADWAY OF W. MILL RD.

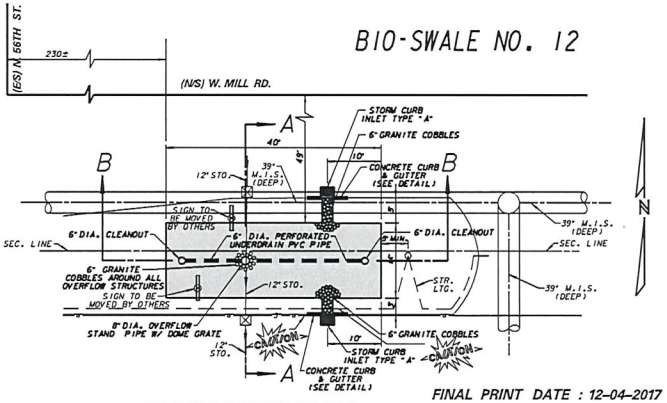


SECTION A-A
SCALE : N.T.S.



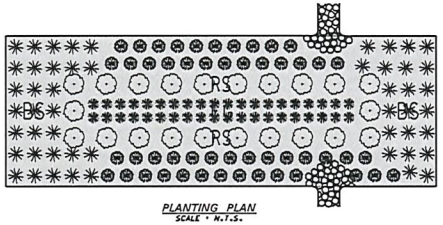
SECTION B-B
SCALE : N.T.S.

BIO-SWALE NO. 12



SECTION LINE IS C/L OF ROADWAY OF W. MILL RD.

(22)	RS	RUSSIAN SAGE - "LITTLE SPIRE"
(40)	FG	FLAME GRASS
(50)	BS	BLACK EYED SUSAN
(50)	MW	MONTROSE WHITE CALAMINT



PLANTING PLAN
SCALE : N.T.S.

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SURVEY:
BOOK NO. 815, PP. 34
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HYDRANT (NW. BOLT), ON NE. CORNER OF N. 58TH ST. AND W. MILL RD. ELEV. 112.08
HYDRANT (NW. BOLT), IN FRONT OF +5737 W. MILL RD. ELEV. 111.38
HYDRANT (NW. BOLT), ON SW. CORNER OF N. 56TH ST. AND W. MILL RD. ELEV. 115.88
HYDRANT (NW. BOLT), ON NE. CORNER OF N. 54TH ST. AND W. MILL RD. ELEV. 120.75
HYDRANT (NW. BOLT), IN FRONT OF +5307 W. MILL RD. ELEV. 118.14
HYDRANT (NW. BOLT), ON SW. CORNER OF N. 52ND ST. AND W. MILL RD. ELEV. 110.59

FOR SPECIAL PROVISIONS SEE PLAN FILE NO. ---"---
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FOR DETAILS SEE PLAN FILE NO. 248-42
SHEET NO. 1 OF 10 IS PLAN FILE NO. 248-33
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SHEET NO. 10 OF 10 IS PLAN FILE NO. 248-42

WISCONSIN
KURT R. SPRANGERS
E-37171
MILWAUKEE, WI
PROFESSIONAL ENGINEER

CALL DIGGERS HOTLINE
1-800-242-8511
TOLL FREE TO HELP LOCATE UNDERGROUND UTILITIES BEFORE YOU DIG, WISCONSIN STATUTE 182.0175 REQUIRES YOU, OF 3 WORK DAYS NOTICE BEFORE YOU EXCAVATE

LINE CODE LEGEND

GAS	G	SANITARY SEWER	SAN	STREET LIGHTING	
ELECTRIC	E	STORM SEWER	STO	PAVING LIMITS	X X X X
TELEPHONE	T	COMBINED SEWER	CMB	STRUCTURE / BUILDING	
CABLE TELEVISION	TV	SEW.DISTRICT SEWER	MSD	FENCE	
FIBER OPTICS	FO	WATER MAIN	W	HYDRANT	
CITY UNDERGROUND CONDUIT	CUC	SEWER/WATER 24" & OVER		ALUMINUM POLE & CONCRETE POLE & WOOD POLE	

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NO.	BY	REVISION	DATE

AS BUILT CONTRACT NO.
DATE CHK'D CHK'D BY

ESTIMATE OF QUANTITIES

ITEM NO.	QUANTITY	DESCRIPTION
44010	4	STORM CURB INLETS WITH GRATE TYPE "A"
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50043	8 SQ YDS	6" GRANITE COBBLES
50305	36	PAVEMENT GOWFLS
50376	40 FT	CONCRETE CURB AND GUTTER
70061	66 FT	6" DIA. PERFORATED UNDERDRAIN PVC PIPE
70064	2	6" DIA. PVC CLEANOUTS
91056	103 CU YDS	ENGINEERED SOIL
91154	23 SQ YDS	GEOTEXTILE FILTER FABRIC, TYPE "DF"
91160	106 CU YDS	1-1/2" CRUSHED STONE
92005	299 CU YDS	EXCAVATION AND OFFSITE DISPOSAL
92034	2	8" DIA. OVERFLOW STAND PIPES W/GRATE
92043	18 CU YDS	3/8" BEDDING LAYER
93001	15 CU YDS	SHREDDED HARDWOOD BARK MULCH
95009	426	PLANT POTS
95015	1	INFORMATIONAL SIGN POST

FINAL PRINT DATE : 12-04-2017

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

GREEN STREET BIOSWALE PLAN

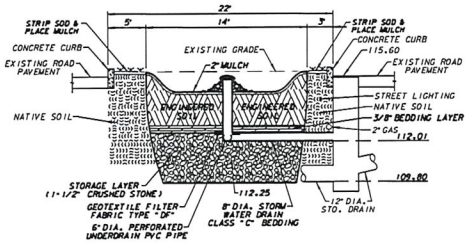
W. MILL ROAD
AT 215'± WEST OF N. 56TH STREET

W. MILL ROAD
AT 230'± EAST OF N. 56TH STREET

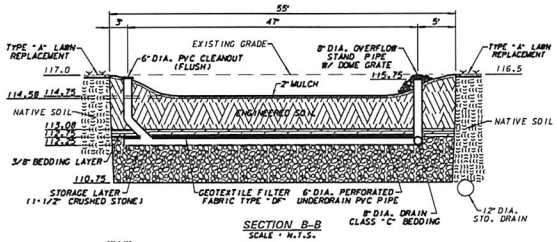
SCALE	HORIZONTAL 1" = 10' VERTICAL 1" = NTS	APPROVED	DATE
14 SEC. NO.	139, 150		DESIGN ENGINEER
PLAN DATE			
DESIGNED BY	P. VOTAVA		ENGINEER IN CHARGE
DRAWN BY	M.DWYER		
CHECKED BY	S.BEKELE		
SYSTEM NO.	2128		
EASEMENT NO.		CITY ENGINEER & SPECIAL DEPUTY COMMISSIONER OF PUBLIC WORKS	
CONTRACT NO.		PROJECT NO. 1	C.C FILE NO.
PROJ. ID	SM4991601021	DPW NOTICE NO. 113-2017	DATE ADOPTED

SHEET NO. 7 OF 10 PLAN FILE NO. 248-39

MADE _____ SCANNED _____ MICROFILMED _____

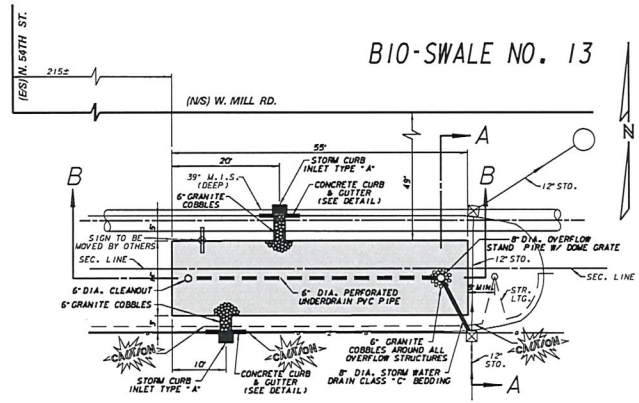


SECTION A-A
SCALE : N.T.S.



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

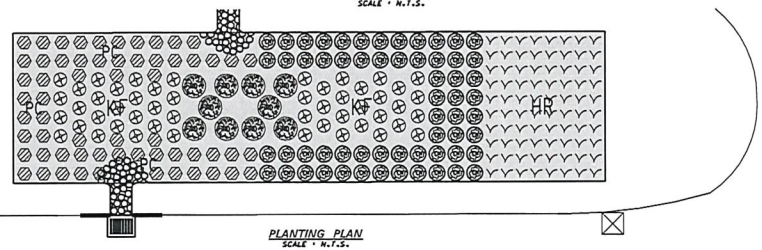
BIO-SWALE NO. 13



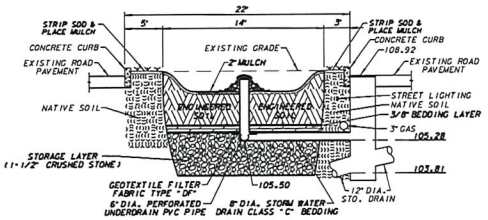
SECTION LINE IS C/L OF ROADWAY OF W. MILL RD.

(10)	RD	IVORY HALO RED TWIG DOGWOOD
(50)	KF	KARL FOERSTER GRASS
(60)	CH	COOL SPLASH HONEYSUCKLE
(60)	PC	PURPLE CONEFLOWER
(80)	HR	HAPPY RETURN DAYLILY

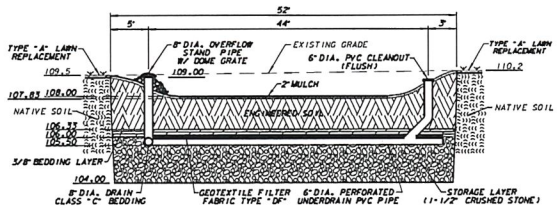
NOTE: DO NOT WRAP GEOTEXTILE FILTER FABRIC, TYPE "DF" AROUND PERFORATED UNDERDRAINS. EXTEND FABRIC 1' ON EITHER SIDE.



PLANTING PLAN
SCALE : N.T.S.

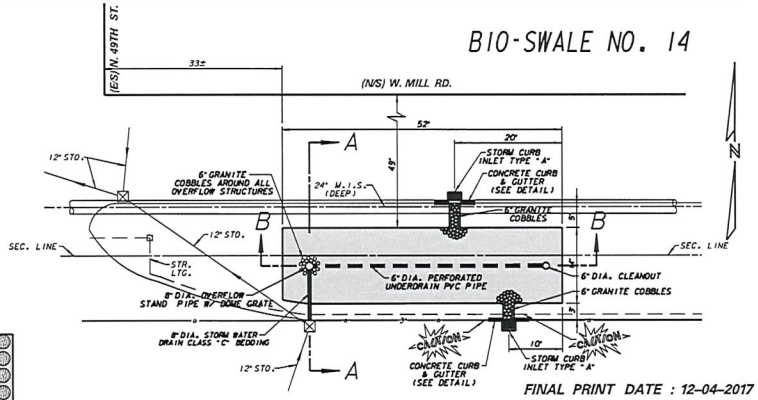


SECTION A-A
SCALE : N.T.S.



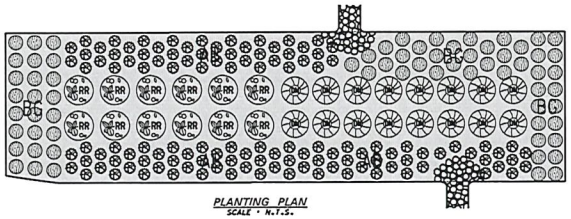
SECTION B-B
SCALE : N.T.S.

BIO-SWALE NO. 14



SECTION LINE IS C/L OF ROADWAY OF W. MILL RD.

(12)	RR	RUGOSA ROSES
(16)	DM	DIABLO NINEBARK - "SUMMER WINE"
(70)	BG	LITTLE BLUESTEM GRASS
(112)	AB	AGASTACHE BLUE FORTUNE



PLANTING PLAN
SCALE : N.T.S.

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HYDRANT (NW. BOLT), ON NE. CORNER OF N. 58TH ST. AND W. MILL RD. ELEV. 112.08
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HYDRANT (NW. BOLT), ON NE. CORNER OF N. 54TH ST. AND W. MILL RD. ELEV. 120.75
HYDRANT (NW. BOLT), IN FRONT OF *5307 W. MILL RD. ELEV. 118.14
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SURVEY:
BOOK NO. 815, PP. 38
BM: HYDRANT (NW. BOLT), ON NE. CORNER OF N. 51ST ST. AND W. MILL RD. ELEV. 108.58
HYDRANT (NW. BOLT), ON S/SIDE OF W. MILL RD., E/S *4901 W. MILL RD. ELEV. 110.82
HYDRANT (NW. BOLT), ON S/SIDE OF W. MILL RD., ACROSS FROM *4714 W. MILL RD. ELEV. 117.10
HYDRANT (NW. BOLT), ON S/SIDE OF W. MILL RD., N/SIDE OF *4621 W. MILL RD. ELEV. 126.06
HYDRANT (NW. BOLT), ON SE. CORNER OF N. 46TH ST. AND W. MILL RD. ELEV. 119.06
HYDRANT (NW. BOLT), ON S/SIDE OF W. MILL RD., E/SIDE OF *4562 W. WOOLWORTH AVE., *REGENT MINI STORAGE* ELEV. 115.21
HYDRANT (NW. BOLT), ON S/SIDE OF W. MILL RD., 50' WEST OF N. SHERMAN BLVD. ELEV. 112.94

FOR SPECIAL PROVISIONS SEE PLAN FILE NO. ----
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SHEET NO. 10 OF 10 IS PLAN FILE NO. 248-42

LINE CODE LEGEND

GAS	G	SANITARY SEWER	SAN
ELECTRIC	E	STORM SEWER	STR
TELEPHONE	T	COMBINED SEWER	CMB
CABLE TELEVISION	TV	NEW DISTRICT SEWER	NMSD
FIBER OPTICS	FO	WATER MAIN	W
CITY UNDERGROUND CONDUIT	CUC	SEWER/WATER 24" & OVER	S/W
STREET LIGHTING		PAVING LIMITS	
STRUCTURE /BUILDING		FENCE	
HYDRANT		ALUMINUM POLE & CONCRETE POLE & WOOD POLE	

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TOLL FREE TO DETERMINE LOCATION OF UNDERGROUND
BEFORE YOU DIG. WISCONSIN STATUTE 182.0175 REQUIRES
NOW, OF 3 WORK DAYS NOTICE BEFORE YOU EXCAVATE

DATE	BY	REVISION	DATE

AS BUILT CONTRACT NO.
DATE ENT'D ENT'D. BY

WISCONSIN
KURT R. SPRANGERS
E-37171
MILWAUKEE, WI
PROFESSIONAL ENGINEER

ESTIMATE OF QUANTITIES

ITEM NO.	QUANTITY	DESCRIPTION
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50843	8 SQ. YDS.	6" GRANITE COBBLES
50899	16	PAVEMENT DOWELS
50976	40 FT.	CONCRETE CURB AND GUTTER
70061	61 FT.	6" DIA. PERFORATED UNDERDRAIN PVC PIPE
70064	3	6" DIA. PVC CLEANOUTS
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95000	422	PLANT POTS
95015	1	INFORMATIONAL SIGN POST

FINAL PRINT DATE : 12-04-2017

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

GREEN STREET BIOSWALE PLAN

W. MILL ROAD
AT 215'± EAST OF N. 54TH STREET

W. MILL ROAD
AT 33'± EAST OF N. 49TH STREET

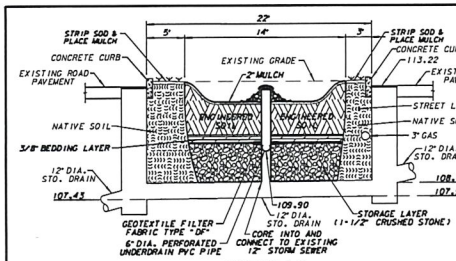
SCALE HORIZONTAL 1" = 10' VERTICAL 1" = NTS
S4 SEC.18:138, 139, 156, 157
PLAN DATE
DESIGNED BY P. VOTAVA
DRAWN BY M.DWYER
CHECKED BY S.BEKELE
SYSTEM NO. 2128
EASEMENT NO.
CONTRACT NO.
PROJ. ID SM499160101

APPROVED DATE
DESIGN ENGINEER
ENGINEER IN CHARGE
CITY ENGINEER & SPECIAL DEPUTY COMMISSIONER OF PUBLIC WORKS
PROJECT NO. 1 G.C. FILE NO.
DEV. NOTICE NO. 113-2017 DATE ADOPTED

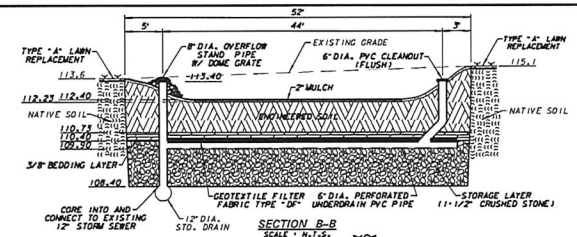
SHEET NO. 8 OF 10 PLAN FILE NO. 248-40

INKED _____ SCANNED _____ MICROFILMED _____

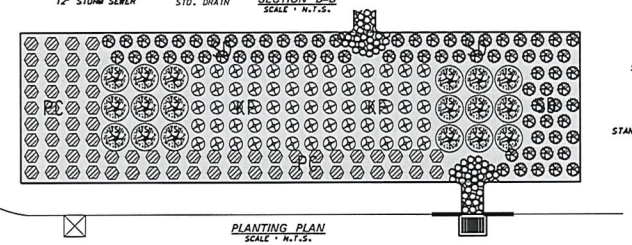
BIO-SWALE NO. 15



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



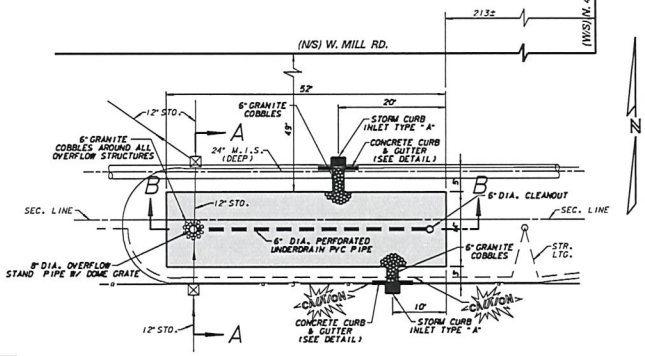
SECTION B-B
SCALE : N.T.S.



PLANTING PLAN
SCALE : N.T.S.

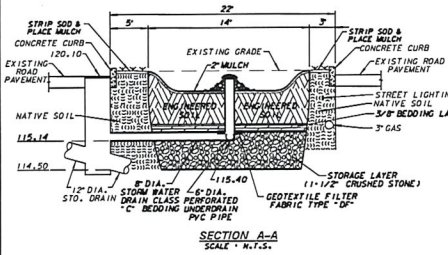
(18)	TS	TIGER EYES SUMAC
(70)	KF	KARL FOERSTER GRASS
(70)	PC	PURPLE CONEFLOWER
(70)	SD	SHASTA DAISIES

NOTE: DO NOT WRAP GEOTEXTILE FILTER FABRIC, TYPE "DF" AROUND PERFORATED UNDERDRAINS. EXTEND FABRIC 1' ON EITHER SIDE.

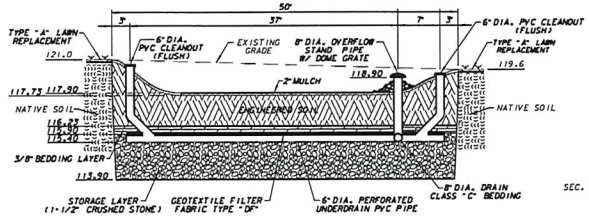


SECTION LINE IS C/L OF ROADWAY OF W. MILL RD.

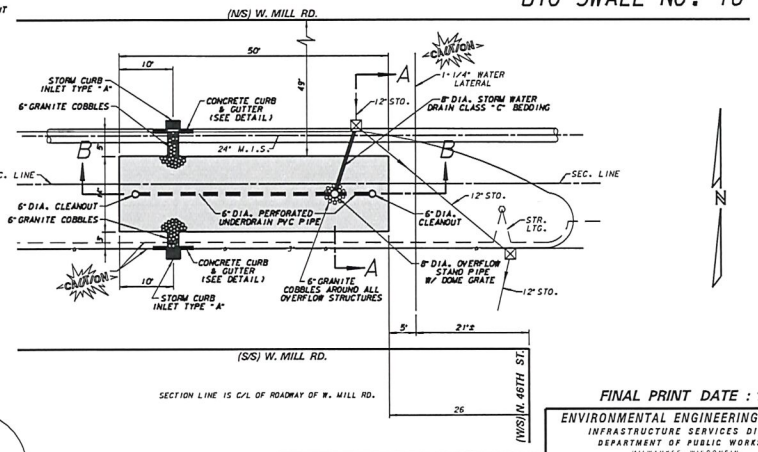
BIO-SWALE NO. 16



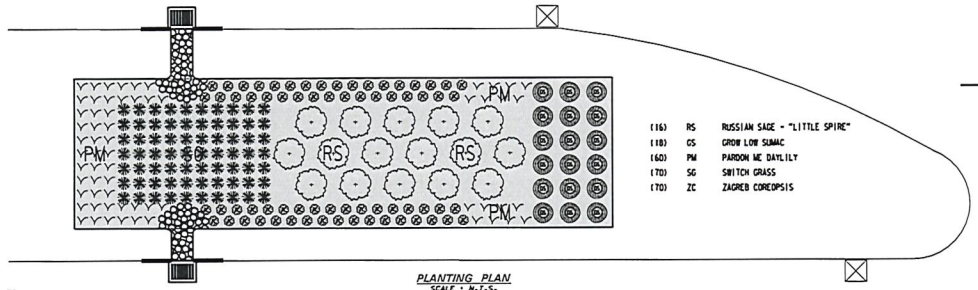
SECTION A-A
SCALE : N.T.S.



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



SECTION LINE IS C/L OF ROADWAY OF W. MILL RD.



(16)	RS	RUSSIAN SAGE - "LITTLE SPIRE"
(18)	GS	GROW LOW SUMAC
(60)	PM	PARDON ME DAYLILY
(70)	SG	SWITCH GRASS
(70)	ZC	ZAGREB COREOPSIS

PLANTING PLAN
SCALE : N.T.S.

SURVEY:
BOOK NO. 815, PP. 38
DM HYDRANT (NW. BOLT), ON NE. CORNER OF N. 51ST ST. AND W. MILL RD. ELEV. 108.58
HYDRANT (NW. BOLT), ON S/SIDE OF W. MILL RD., E/S "4901 W. MILL RD. ELEV. 110.82
HYDRANT (NW. BOLT), ON S/SIDE OF W. MILL RD., ACROSS FROM "4714 W. MILL RD. ELEV. 117.10
HYDRANT (NW. BOLT), ON S/SIDE OF W. MILL RD., W/SIDE OF "4621 W. MILL RD. ELEV. 126.06
HYDRANT (NW. BOLT), ON SE. CORNER OF N. 46TH ST. AND W. MILL RD. ELEV. 119.06
HYDRANT (NW. BOLT), ON S/SIDE OF W. MILL RD., E/SIDE OF "4562 W. WOOLWORTH AVE., "REGENT MINI STORAGE" ELEV. 115.21
HYDRANT (NW. BOLT), ON S/SIDE OF W. MILL RD., 50' WEST OF N. SHERMAN BLVD. ELEV. 112.94

FOR SPECIAL PROVISIONS SEE PLAN FILE NO. ---
FOR SITE PLAN SEE PLAN FILE NO. 248-33
FOR DETAILS SEE PLAN FILE NO. 248-42
SHEET NO. 1 OF 10 IS PLAN FILE NO. 248-33
SHEET NO. 2 OF 10 IS PLAN FILE NO. 248-34
SHEET NO. 3 OF 10 IS PLAN FILE NO. 248-35
SHEET NO. 4 OF 10 IS PLAN FILE NO. 248-36
SHEET NO. 5 OF 10 IS PLAN FILE NO. 248-37
SHEET NO. 6 OF 10 IS PLAN FILE NO. 248-38
SHEET NO. 7 OF 10 IS PLAN FILE NO. 248-39
SHEET NO. 8 OF 10 IS PLAN FILE NO. 248-40
SHEET NO. 9 OF 10 IS PLAN FILE NO. 248-41
SHEET NO. 10 OF 10 IS PLAN FILE NO. 248-42

NOTE: DO NOT WRAP GEOTEXTILE FILTER FABRIC, TYPE "DF" AROUND PERFORATED UNDERDRAINS. EXTEND FABRIC 1' ON EITHER SIDE.

WISCONSIN KURT R. SPRANGERS E-37171 MILWAUKEE, WI PROFESSIONAL ENGINEER

CALL DIGGERS HOTLINE 1-800-242-8511
TOLL FREE TO OBTAIN LOCATION OF UNDERGROUND UTILITIES BEFORE YOU DIG. WISCONSIN STATUTE 182.0175 REQUIRES NOW, OF 3 WORK DAYS NOTICE BEFORE YOU EXCAVATE

NO.	BY	REVISION	DATE

AS BUILT CONTRACT NO.
DATE ENT'D. ENT'D. BY

ESTIMATE OF QUANTITIES

ITEM NO.	QUANTITY	DESCRIPTION
44010	4	STORM CURB INLETS WITH GRATE TYPE "A"
50075	20 SQ. YDS.	TYPE "A" LAWN REPLACEMENT
50839	111 FT.	8" DIA. STORM WATER DRAIN, CLASS "C" BED
50843	6 SQ. YDS.	6" GRANITE COBBLES
50300	38	PAVEMENT DOWELS
50316	40 FT.	CONCRETE CURB AND GUTTER
70061	88 FT.	6" DIA. PERFORATED UNDERDRAIN PVC PIPE
70064	7	6" DIA. PVC CLEANOUTS
91056	96 CU. YDS.	ENGINEERED SOIL
91154	26 SQ. YDS.	GEOTEXTILE FILTER FABRIC, TYPE "DF"
91180	198 CU. YDS.	1-1/2" CRUSHED STONE
92005	334 CU. YDS.	EXCAVATION AND OFFSITE DISPOSAL
92034	7	4" DIA. OVERFLOW STAND PIPES W/GRATE
92043	20 CU. YDS.	3/8" BEDDING LAYER
93001	12 CU. YDS.	SHREDDED HARDWOOD BARK MULCH
95002	438	PLANT POTS
95015	1	INFORMATIONAL SIGN POST

FINAL PRINT DATE : 12-04-2017

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

GREEN STREET BIOSWALE PLAN

W. MILL ROAD
AT 213'± WEST OF N. 47TH STREET

W. MILL ROAD
AT 26'± WEST OF N. 46TH STREET

SCALE	HORIZONTAL 1" = 10'	APPROVED / DATE
	VERTICAL 1" = NTS	
1/4 SEC. NO.	138, 157	DESIGN ENGINEER
PLAN DATE		
DESIGNED BY	E.BEANE	
DRAWN BY	M.DWYER	ENGINEER IN CHARGE
CHECKED BY	S.BEKELE	
SYSTEM NO.	2105	
EASEMENT NO.		CITY ENGINEER & SPECIAL DEPUTY COMMISSIONER OF PUBLIC WORKS
CONTRACT NO.		PROJECT NO. 1 / C.C. FILE NO.
PROJ. ID.	SM499160121	OFF. NOTICE NO. 113-2017 / DATE ADOPTED

SHEET NO. 9 OF 10 PLAN FILE NO. 248-41

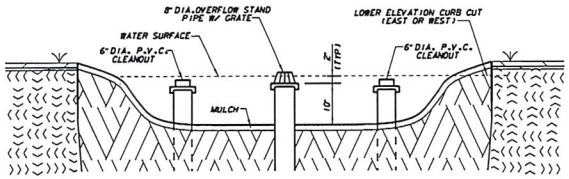
LINE CODE LEGEND

GAS	G	SANITARY SEWER	SAN
ELECTRIC	E	STORM SEWER	STO
TELEPHONE	T	COMBINED SEWER	CMB
CABLE TELEVISION	TV	SEW.DISTRICT SEWER	MSD
FIBER OPTICS	FO	WATER MAIN	W
CITY UNDERGROUND CONDUIT	CUC	SEWER/WATER 24" & OVER	
STREET LIGHTING		PAVING LIMITS	
STRUCTURE /BUILDING		FENCE	F
HYDRANT		ALUMINUM POLE & CONCRETE POLE & WOOD POLE	

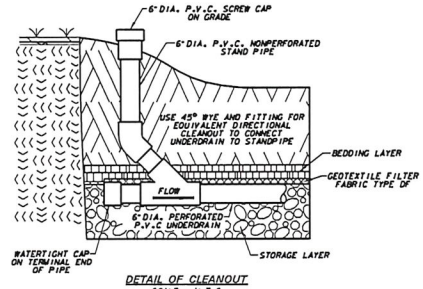
BE ADVISED THAT THIS INFORMATION HEREBY GIVEN TO YOU IS BASED UPON THE BEST AVAILABLE RECORDS. THE EXACT LOCATION IS UNKNOWN FOR ALL UTILITIES SHOWN WITHOUT DIMENSIONS. HOWEVER WE CANNOT GUARANTEE THE CORRECTNESS OR ACCURACY OF THE SAME.

NMED ____ SCANNED ____ MICROFILMED ____

BIO-SWALE DETAILS



DETAIL OF 8" OVERFLOW STAND PIPE
SCALE = N.T.S.



DETAIL OF CLEANOUT
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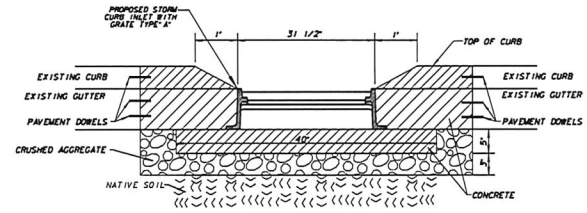
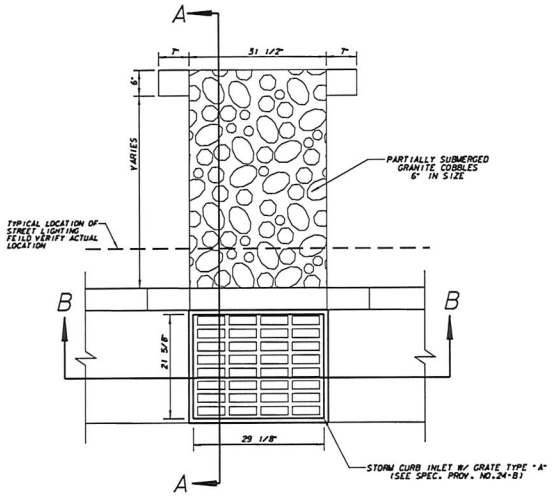
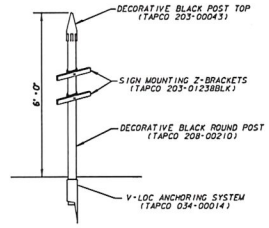


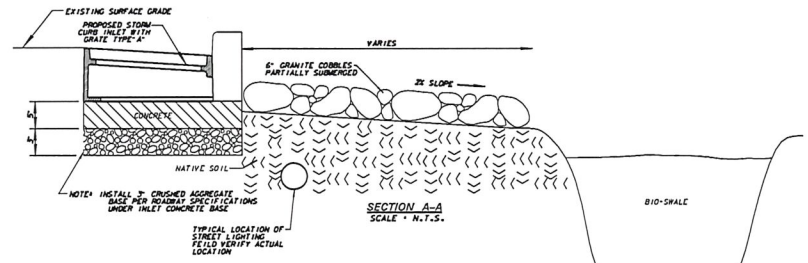
SECTION B-B
SCALE = N.T.S.



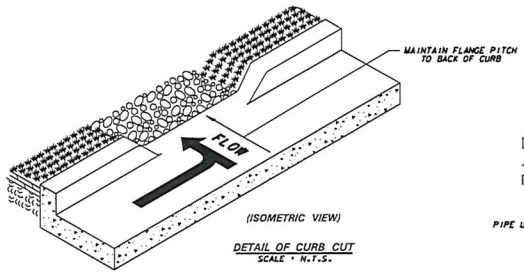
STORM CURB INLET WITH GRATE TYPE "A"
SCALE = N.T.S.



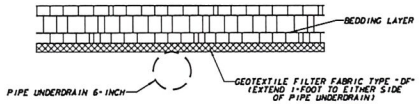
DETAIL OF INFORMATIONAL SIGN
SCALE = N.T.S.



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



DETAIL OF CURB CUT
SCALE = N.T.S.



DETAIL OF GEOTEXTILE FABRIC
SCALE = N.T.S.

FOR SPECIAL PROVISIONS SEE PLAN FILE NO. ---'---
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SHEET NO. 9 OF 10 IS PLAN FILE NO. 248-41
SHEET NO. 10 OF 10 IS PLAN FILE NO. 248-42

LINE CODE LEGEND

GAS	G	SANITARY SEWER	SAN	STREET LIGHTING	
ELECTRIC	E	STORM SEWER	STO	PAVING LIMITS	
TELEPHONE	T	COMBINED SEWER	CMB	STRUCTURE / BUILDING	
CABLE TELEVISION	TV	MSD DISTRICT SEWER	MSD	FENCE	
FIBER OPTICS	FO	WATER MAIN	W	HYDRANT	
CITY UNDERGROUND CONDUIT	CUC	SEWER/WATER 24" & OVER		ALUMINUM POLE & CONCRETE POLE & WOOD POLE	

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TELL THEM TO REVIEW LOCATION OF UNDERGROUND
BEFORE YOU DIG. WISCONSIN STATUTE 182.0175 REQUIRES
MIN. OF 3 WORK DAYS NOTICE BEFORE YOU EXCAVATE

WISCONSIN
KURT R. SPRANGERS
E-32171
MILWAUKEE, WI
PROFESSIONAL ENGINEER

FINAL PRINT DATE : 12-04-2017

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

BIOSWALE DETAILS PLAN

IN W. MILL ROAD
FROM 300'± EAST. OF N. 89TH STREET
TO 26'± WEST. OF N. 46TH STREET

SCALE	HORIZONTAL 1" = 10' VERTICAL 1" = NTS	APPROVED	DATE
14 SEC. NO.			DESIGN ENGINEER
PLAN DATE			
DESIGNED BY	P.VOTAVA		ENGINEER IN CHARGE
DRAWN BY	M.DWYER		
CHECKED BY	S.BEKELE		
SYSTEM NO.			
EASEMENT NO.		CITY ENGINEER & SPECIAL DEPUTY COMMISSIONER OF PUBLIC WORKS	
CONTRACT NO.		PROJECT NO.	C.C. FILE NO.
PROJ. ID	SM499160121	DEV. NOTICE NO. 113-2017	DATE ADOPTED

NO.	BY	REVISION	DATE

AS BUILT CONTRACT NO.
DATE ENT'D ENT'D. BY

SHEET NO. 10 OF 10 PLAN FILE NO. 248-42

MMED _____ SCANNED _____ MICROFILMED _____