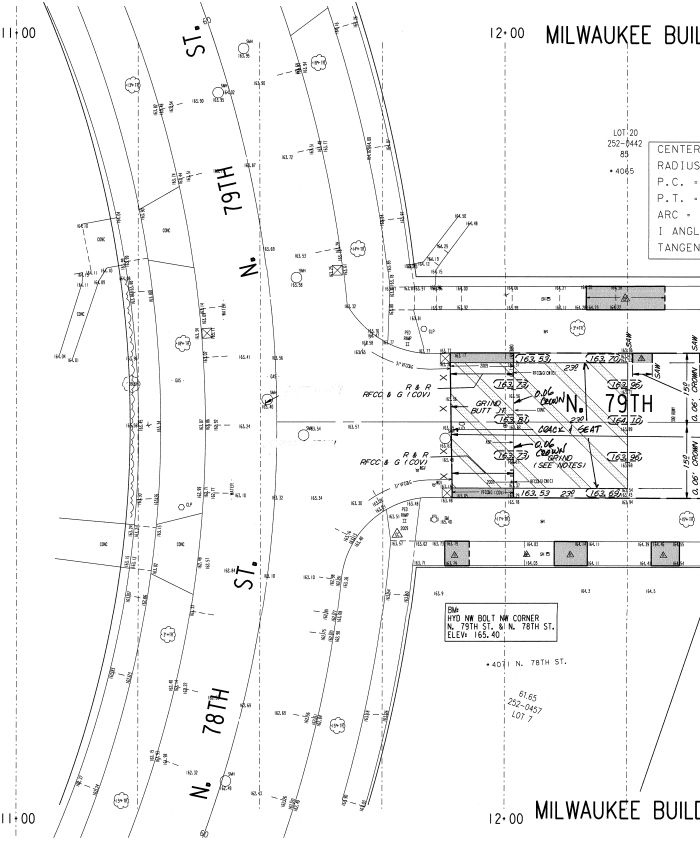
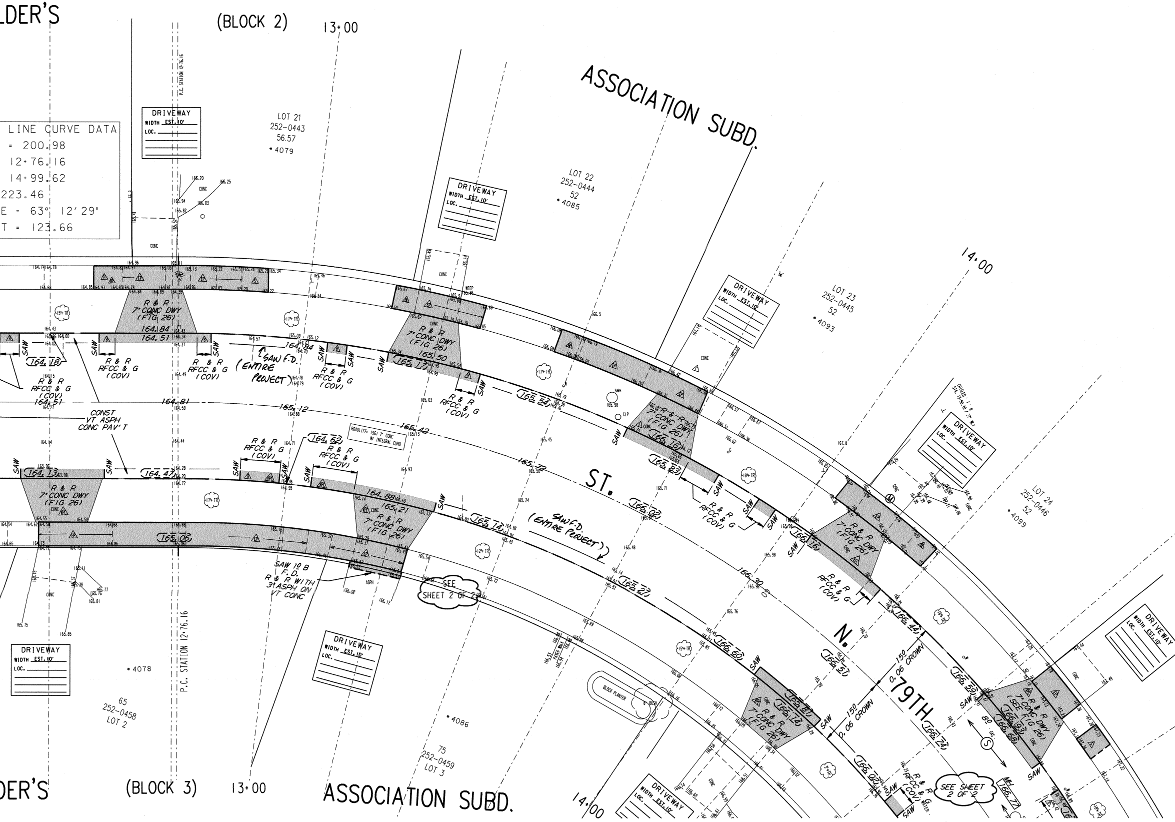
INFRASTRUCTURE SERVICES DIVISION
CONSTRUCTION SECTION
DESIGN & SURVEY SERVICES
NORTH DISTRICT
MILWAUKEE, WISCONSIN

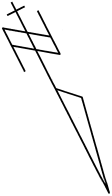
LEVELS BY: L. BEKELE
DATE: 04-29-2014
DRAWN BY: M. SHIBILSKI
DATE: 04-29-2014
FILE NO: 29304

TRANSIT LINE IS THE CENTER LINE
OF THE STREET
BASED ON CURBS
STATION 20+00
IS THE SOUTHWEST LOT CORNER
OF N. 79TH AND W. HOPE


11+00
12+00
MILWAUKEE BUIL
N. 79TH ST.
N. 78TH ST.
N. 79TH
LOT 20
252-0442
85
4065
CENTER
RADIUS
P.C. =
P.T. =
ARC =
I ANGL
TANGEN
R & R
RFCC & G (COV)
GRIND
BUTT JT
0.06 CROWN
CRACK & SEAT
GRIND
(SEE NOTES)
163.53
163.70
163.73
163.96
163.81
164.10
163.69
23⁰
SAW
15⁰ 0.06' CROWN
30⁰ ROWY
31" VFCC&G
2009
RFCC&G (CWIC)
VFCC&G (COV)
CONC
ASP
PED RAMP II
CLP
SMH
GAS
WATER
BUSH
WGV
BM 165.40
GC
3"+TR
13"+TR
14"+TR
15"+TR
17"+TR
18"+TR
BM:
HYD NW BOLT NW CORNER
N. 79TH ST. & N. 78TH ST.
ELEV: 165.40
4071 N. 78TH ST.
61.65
252-0457
LOT 7
60

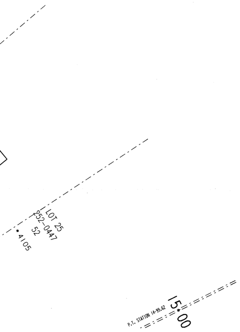


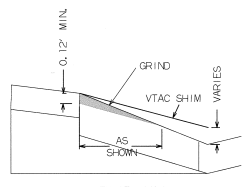
LDER'S
(BLOCK 2)
13+00
ASSOCIATION SUBD.
LINE CURVE DATA
= 200.98
12+76.16
14+99.62
223.46
E = 63° 12'29"
T = 123.66
P.C. STATION 12+76.16
DRIVEWAY
WIDTH EST. 10'
LOC.
LOT 21
252-0443
56.57
•4079
LOT 22
252-0444
52
•4085
LOT 23
252-0445
52
•4093
LOT 24
252-0446
52
•4099
14+00
R & R
7" CONC DWY
(FIG 26)
164.84
164.51
SAW
164.18
R & R
RFCC & G
(COV)
164.51
CONST
VT ASPH
CONC PAV'T
164.81
165.12
165.42
165.72
SAW F.D.
(ENTIRE PROJECT)
164.84
165.17
165.50
165.54
ROADLIFE® 1961 7" CONC W/ INTEGRAL CURB
164.62
164.13
164.47
164.88
165.21
165.06
165.14
SAW F.D.
(ENTIRE PROJECT)
166.02
165.76
165.83
166.16
ST.
N.
79TH
166.30
165.27
166.44
166.60
166.51
166.53
150
0.06 CROWN
166.81
166.14
166.74
166.02
166.93
166.68
(SEE FIG 26)
SAW 1/2 B
F.D.
R & R WITH
3" ASPH ON
VT CONC
SEE SHEET 2 OF 2
SEE SHEET 2 OF 2
SMH
CLP
BLOCK PLANTER
BUSH
•4078
65
252-0458
LOT 2
•4086
75
252-0459
LOT 3
ODER'S
(BLOCK 3)
13+00
ASSOCIATION SUBD.
14+00



NOTES :

- (I), (II), (III), DENOTES RAMP TYPE.
- CONSTRUCT ALL CARRIAGE WALKS AND DRIVEWAYS PER CITY OF MILWAUKEE SPECIFICATIONS.
- OFFSET MEASUREMENTS TO TREES, WOOD POLES AND LIGHT POLES ARE TAKEN TO EDGE NEAREST THE CENTERLINE.
- OFFSET MEASUREMENTS TO HYDRANTS ARE TAKEN TO THE OPERATING NUT.
- GRADE & PLACE 1.5' WIDTH OF SOD IN LAWN AREAS DISTURBED BY CONSTRUCTION UNLESS OTHERWISE DIRECTED.
- PROJECT IS DESIGNED TO BE CONSTRUCTED IN 2 EQUAL PASSES WITH A 0.06 CROWN IN EACH PASS.
- IN AREAS OF GRINDING, GRIND TO ACHIEVE 0.12' MINIMUM COVER AT FLANGES, 0.17' AT BUTT JOINTS, AND 0.21' MINIMUM ELSEWHERE.
- REMOVE ASPHALT PATCHES WITHIN LIMITS OF CONSTRUCTION AS DIRECTED BY CONSTRUCTION SUPERVISOR.
- F.D. SAW ALONG THE CURB FLANGE (2 FT FROM FACE) ALONG ENTIRE PROJECT.
- ANY TREE TO BE REMOVED AS PART OF THIS PROJECT WILL BE INDICATED IN THE CONTRACT SPECIAL PROVISIONS.
- INTERNAL MANHOLE SEALS ARE REQUIRED IN ALL MANHOLES MARKED "SAN." (SANITARY).


LOT 25
252-0447
52
4105
P.T. STATION 14+99.62
15+00


0.12' MIN.
GRIND
VTAC SHIM
VARIES
AS SHOWN
EXIST. CW
EXIST. CONC.
DWY APPR.

TYPICAL SECTION
ASPHALT SHIM ON DRIVEWAYS

CONDITION OF CONCRETE	
B	BROKEN
BL	BLUE LINED
BP	BACK PITCHED
C	CRACKED
EP	EXCESSIVE PITCH
H	HEAVED
JF	JOINT FAILURE
MJ	MUD JACKED
P	PATCHED
PC	POOR CONDITION
S	SETTLED
SP	SPALLED
VGC	VERY GOOD
VPC	VERY POOR

ESTIMATE / CERT

	DESCRIPTION	UNIT	ASSE
☒	MOBILIZATION	L.S.	
☒	FINISHING ROADWAY	L.S.	
☒	BARRICADING AND SIGNING	L.S.	
☒	CUTTING	C.Y.	
☒	ROADWAY CUTTING	C.Y.	
☒	FILLING	C.Y.	
☒	ROADWAY FILLING	C.Y.	
	PAVEMENT REMOVAL	S.Y.	
	BITUMINOUS SURFACE REMOVAL	S.Y.	
☒	CURB &/OR CURB & GUTTER REMOVAL	L.F.	
☒	CONC.WALK &/OR DRIVEWAY REMOVAL	S.F.	
☒	SAWING (FULL DEPTH)	L.F.	
	SAWING	L.F.	
	TREES CLEARING	I.D.	
	TREES GRUBBING	I.D.	
☒	RF CONCRETE CURB & GUTTER	L.F.	
	V.T. CONC.WALK &/OR DRIVEWAY	C.Y.	
☒	5" CONCRETE WALK	S.F.	
☒	7" CONCRETE DRIVEWAY	S.F.	
	CONCRETE PAVEMENT	S.Y.	
	7" CONCRETE ALLEY PAVEMENT	S.Y.	
☒	V.T. CONCRETE BASE	C.Y.	
☒	6" CONCRETE BASE	S.Y.	
☒	TACK COAT	GAL.	
☒	BASE PREP. FOR ASPHALT SURFACE	L.S.	
☒	V.T.ASPH.CONC.PAV'T.(1/2 MAX.)	S.Y.	
	CRUSHED STONE BASE		
	CRUSHED GRAVEL BASE		
☒	GRAVEL FILLING	TON	
☒	SODDING	S.Y.	
☒	TOPSOIL	C.Y.	
☒	PAVEMENT GRINDING (ASPHALT)	S.Y.	
	PAVEMENT GRINDING (CONCRETE)	S.Y.	
	SEALING PAV'T JOINTS & CRACKS	S.Y.	
☒	MANHOLE RINGS	EACH	
☒	SEWER FRAME ADJUSTMENT	V.F.	
☒	MANHOLE SEAL (CITY FURNISHED)	EACH	
☒	EROSION CONTROL (TYPE M)	EACH	
☒	JOINT AND CRACK REPAIR	L.F.	
☒	CRACK & SEAT	S.Y.	

IFICATE QUANTITIES

ESS.	X- ING			PLAN TOT.	PROJ.TOT.
					740

DEPARTMENT OF PUBLIC WORKS
INFRASTRUCTURE SERVICES DIVISION
FIELD OPERATIONS
FIELD & DESIGN ENGINEERING
MILWAUKEE, WISCONSIN

FILE NO. 459

PLAN OF: N. 79TH ST. (4000N, 7900W)

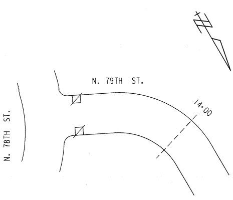
N. 78TH ST. TO W. HOPE AVE.

THIS SECTION: N. 78TH ST. TO STATION 14+00

DRAWN BY	W. SNYDER	DATE: 06-16-14	PROJECT NO. ST211140106		SHEET 1 OF 2
DESCRIPTIONS BY	W. SNYDER	DATE: 06-16-14			
LEVELS BY	BEKELE	DATE: 05-07-14	SCALE	1/4 SEC.	ALD.DIST.
LEVELS TRANSF. BY	SHIBILSKI	DATE: 05-07-14	1" = 10'	252	5
DESIGNED BY	SCHULTZ	DATE: 08-28-14	OBSTRUCTIONS - SEE OBSTRUCTION LIST		
GRADES TRANSF. BY	W. SNYDER	DATE: 10-07-14	REVISED:		
CHECKED BY	D. Ulatowski	DATE: 11/24/14	REVISED:		
APPROVED BY	Robert B. Vilkie	DATE: 11/26/14	REVISED:		
FILE: V:\PWELIB\PAVING\29304.FIN					
PLOT DATE: 19-NOV-2014					

THIS SHEET

STORM DRAINAGE UNITS		
C.B.W. - 0	RESET - 0	ABANDON - 0
PROJECT IN (SEPARATED) AREA		


N. 79TH ST.
14+00
N. 78TH ST.

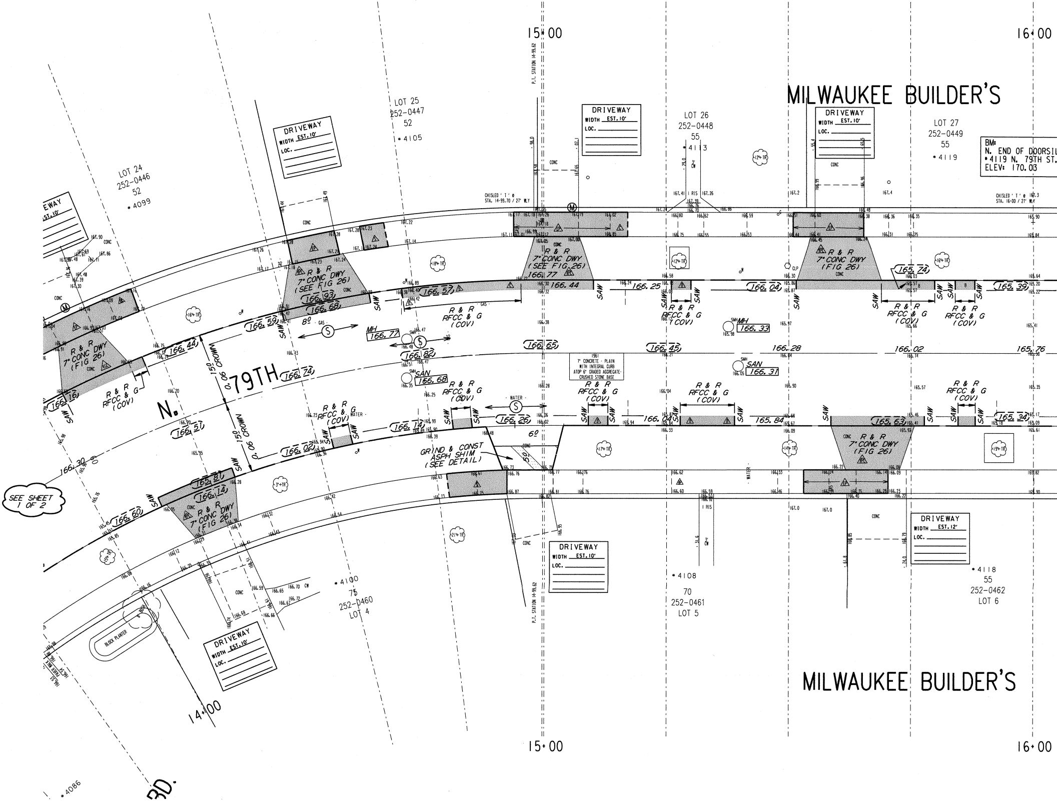
	EROSION	CONTROL	AND	C.B.	REQUISITION	PLAN
	TYPE M	☒ - CBW		☐ - RESET	╳ - ABANDON	⧄ NO WORK
THIS SHEET	2	0		0	0	
PROJECT TOTAL	6	0		2	0	

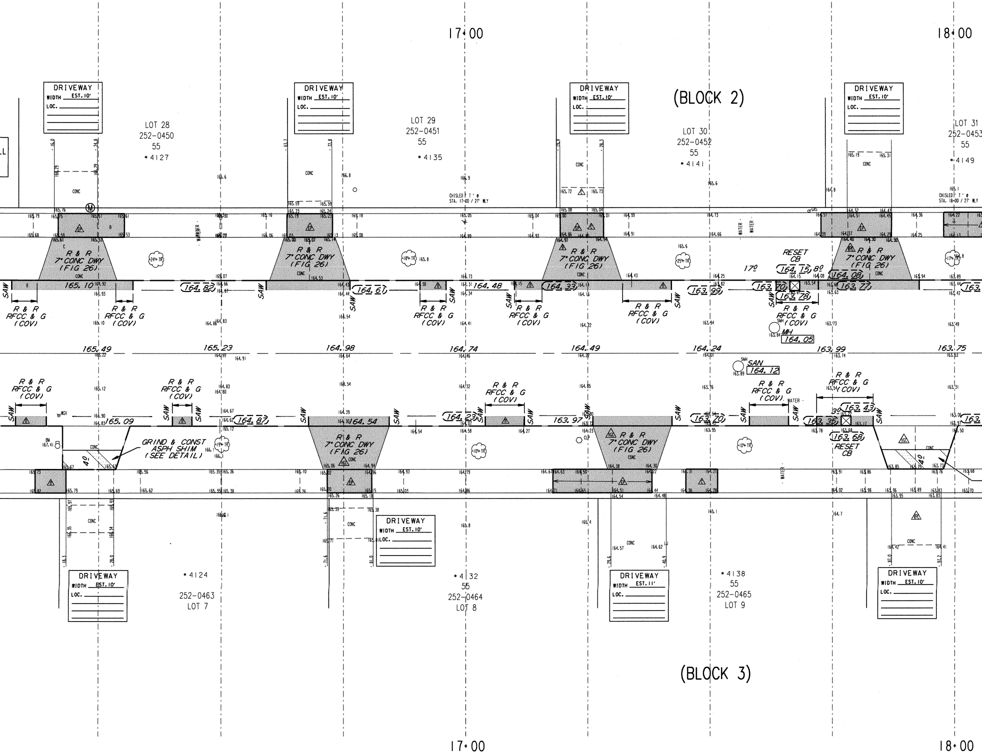
DATE / TO	12/1/14	5/13/15			
ESTIMATING	1				
HOLLOW WALKS	1				
PUBLIC HEARING	1				
CONSTRUCTION	1	6			
SEWER	1				
WATER	1				
STREET LIGHTING	1				
BLDG. SEWERS					
MEASURING		1			
FIELD					
DISTRICT FILE	2				
FORESTRY	1				
W.E. / G.O.					
WIS. GAS CO.					
TRANSIT SYSTEM					
CABLE TV					
UND. GRD. COND.	1				
WATER DIST.	1				
WEPCO N/S					
WEPCO S/S					
SEWER SERVICES					
UTILITY COOR.	1				
TrafficEng	1				
Rm 506		6			
PLAN SIZE	18"X90"				

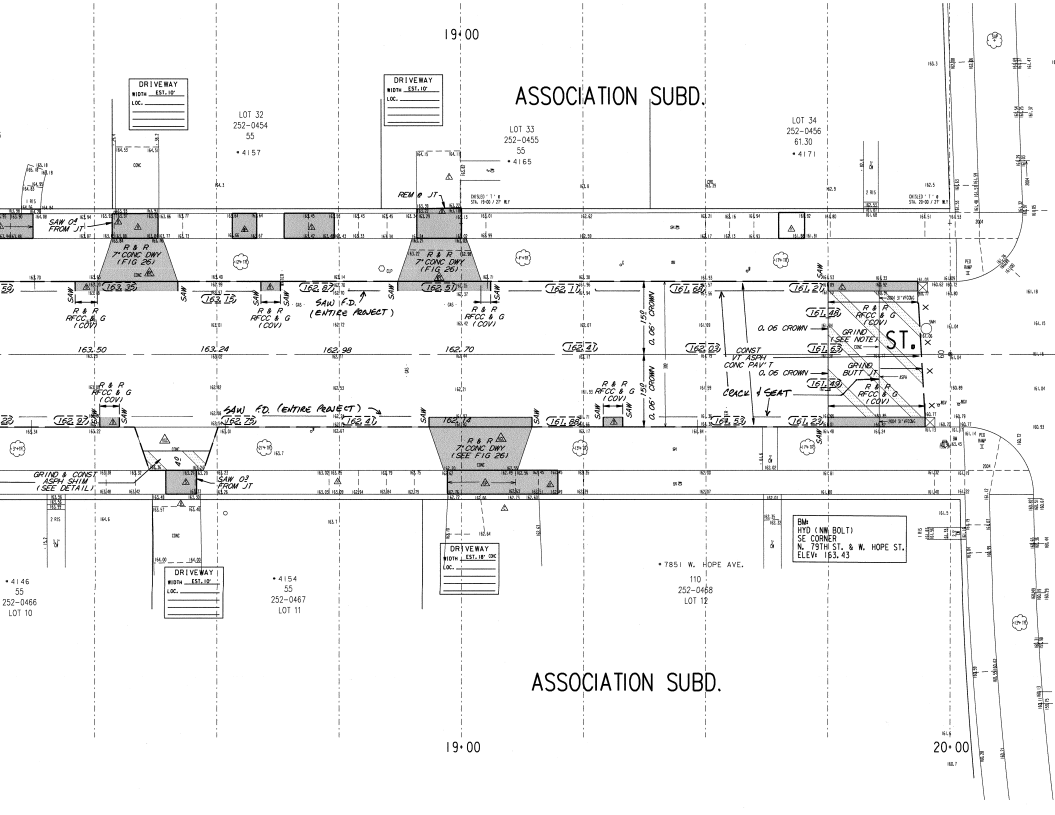
N. 78TH ST. TO STATION 14+00

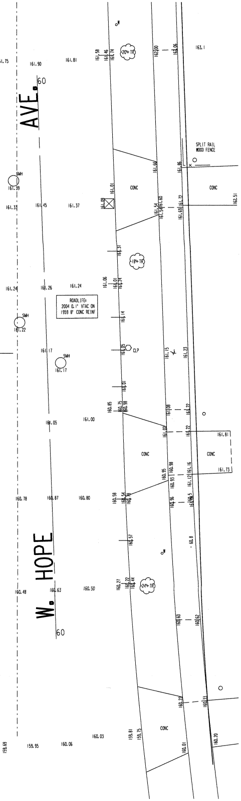
N. 79TH ST., N. 78TH ST. TO W. HOPE AVE.

ST211140106 18" X 82" 29304 # (1 OF 2)

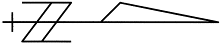

15+00
16+00
14+00
MILWAUKEE BUILDER'S
MILWAUKEE BUILDER'S
N. 79TH
RD.
SEE SHEET 1 OF 2
BM: N. END OF DOORSIL •4119 N. 79TH ST. ELEV: 170.03
LOT 24 252-0446 52 •4099
LOT 25 252-0447 52 •4105
LOT 26 252-0448 55 •4113
LOT 27 252-0449 55 •4119
•4100 75 252-0460 LOT 4
•4108 70 252-0461 LOT 5
•4118 55 252-0462 LOT 6
•4086
DRIVEWAY WIDTH EST. 10' LOC.
DRIVEWAY WIDTH EST. 12' LOC.
R & R 7" CONC DWY (SEE FIG 26)
R & R 7" CONC DWY (FIG 26)
R & R RFCC & G (COV)
GRIND & CONST ASPH SHIM (SEE DETAIL)
1961 7" CONCRETE - PLAIN WITH INTEGRAL CURB ATOP 6" GRADED AGGREGATE-CRUSHED STONE BASE
1.5% 0.06 CROWN
P.T. STATION 14+99.62
CHISLED ' T ' @ STA. 14+99.70 / 27' WLY
CHISLED ' T ' @ STA. 16+00 / 27' WLY
MH 166.77
SAN 166.68
SAN 166.31
MH 166.33
SAW
CONC
WATER
GAS
BLOCK PLANTER
166.30
166.60
166.16
166.51
166.44
166.74
166.59
166.93
166.68
166.57
166.44
166.77
166.25
166.04
165.74
165.39
166.65
166.45
166.28
166.02
165.76
166.82
166.14
166.26
166.04
165.84
165.63
165.34
166.02
165.81
166.14

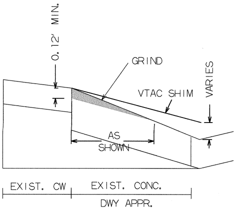

17+00
18+00
(BLOCK 2)
DRIVEWAY
WIDTH EST. 10'
LOC.
LOT 28
252-0450
55
*4127
LOT 29
252-0451
55
*4135
LOT 30
252-0452
55
*4141
LOT 31
252-0453
55
*4149
CONC
CHISLED T @ STA. 17+00 / 27' WLY
CHISLED T @ STA. 18+00 / 27' WLY
R & R
7" CONC DWY
(FIG 26)
RESET
CB
R & R
RFCC & G
(COV)
SAW
165.10
164.82
164.61
164.48
164.33
163.99
163.70
163.78
164.15
163.77
164.08
MH
164.05
165.49
165.23
164.98
164.74
164.49
164.24
163.99
163.75
SAN
164.12
165.09
164.87
164.54
164.23
163.97
163.70
163.35
163.43
163.68
GRIND & CONST
ASPH SHIM
(SEE DETAIL)
24" TR
18" TR
25" TR
17" TR
19" TR
10" TR
WATER
DRIVEWAY
WIDTH EST. 11'
*4124
252-0463
LOT 7
*4132
55
252-0464
LOT 8
*4138
55
252-0465
LOT 9
(BLOCK 3)


19+00
ASSOCIATION SUBD.
DRIVEWAY
WIDTH EST. 10'
LOC.
LOT 32
252-0454
55
• 4157
DRIVEWAY
WIDTH EST. 10'
LOC.
LOT 33
252-0455
55
• 4165
LOT 34
252-0456
61.30
• 4171
REM @ JT
CHISLED 'T' @ STA. 19+00 / 27' WLY
CHISLED 'T' @ STA. 20+00 / 27' WLY
SAW 0' FROM JT
R & R
7" CONC DWY
(FIG 26)
R & R
7" CONC DWY
(FIG 26)
SAW
R & R
RFCC & G
(COV)
SAW F.D.
(ENTIRE PROJECT)
0.06 CROWN
GRIND
(SEE NOTE)
ST.
CONST
VT ASPH
CONC PAV'T
GRIND
BUTT JT
CRACK & SEAT
150
0.06' CROWN
163.35
163.15
162.87
162.51
162.11
161.68
161.27
161.48
161.63
161.49
161.23
163.50
163.24
162.98
162.70
162.41
162.03
162.97
162.75
162.41
162.14
161.88
161.53
SAW F.D. (ENTIRE PROJECT)
2004 31' VFCC&G
PED RAMP II
R & R
7" CONC DWY
(SEE FIG 26)
GRIND & CONST
ASPH SHIM
(SEE DETAIL)
SAW 0' FROM JT
4'
DRIVEWAY
WIDTH EST. 10'
LOC.
DRIVEWAY
WIDTH EST. 18'
LOC.
• 4146
55
252-0466
LOT 10
• 4154
55
252-0467
LOT 11
• 7851 W. HOPE AVE.
110
252-0468
LOT 12
BM:
HYD (NW BOLT)
SE CORNER
N. 79TH ST. & W. HOPE ST.
ELEV: 163.43
ASSOCIATION SUBD.
19+00
20+00



AVE.
60
W. HOPE
60
SMH
161.39
SMH
161.22
SMH
161.17
CLP
20"+ TR
18"+ TR
24"+ TR
CONC
CONC
CONC
CONC
CONC
SPLIT RAIL
WOOD FENCE
ROADLIFE:
2004 0.1" VTAC ON
1959 8" CONC REINF
161.90
161.81
163.1
162.51
161.45
161.37
161.26
161.24
161.17
161.05
161.00
161.81
161.73
160.78
160.87
160.80
160.48
160.63
160.50
160.03
159.95
160.06
159.69





0.12' MIN.
GRIND
VTAC SHIM
VARIES
AS
SHOWN
EXIST. CW
EXIST. CONC.
DWY APPR.

TYPICAL SECTION
ASPHALT SHIM ON DRIVEWAYS

CONDITION OF CONCRETE	
B	BROKEN
BL	BLUE LINED
BP	BACK PITCHED
C	CRACKED
EP	EXCESSIVE PITCH
H	HEAVED
JF	JOINT FAILURE
MJ	MUD JACKED
P	PATCHED
PC	POOR CONDITION
S	SETTLED
SP	SPALLED
VGC	VERY GOOD
VPC	VERY POOR

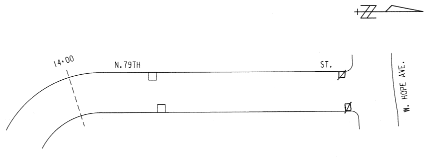
ESTIMATE / CERTIFICATE QUANTITIES

	DESCRIPTION	UNIT	ASSESS.	X-ING			PLAN TOT.	PROJ.TOT.
	MOBILIZATION	L.S.						
	FINISHING ROADWAY	L.S.						
	BARRICADING AND SIGNING	L.S.						
	CUTTING	C.Y.						
	ROADWAY CUTTING	C.Y.						
	FILLING	C.Y.						
	ROADWAY FILLING	C.Y.						
	PAVEMENT REMOVAL	S.Y.						
	BITUMINOUS SURFACE REMOVAL	S.Y.						
	CURB &/OR CURB & GUTTER REMOVAL	L.F.						
	CONC.WALK &/OR DRIVEWAY REMOVAL	S.F.						
	SAWING (FULL DEPTH)	L.F.						
	SAWING	L.F.						
	TREES CLEARING	I.D.						
	TREES GRUBBING	I.D.						
		L.F.						
	V.T. CONC.WALK &/OR DRIVEWAY	C.Y.						
	5" CONCRETE WALK	S.F.						
	7" CONCRETE DRIVEWAY	S.F.						
		S.Y.						
	7" CONCRETE ALLEY PAVEMENT	S.Y.						
	V.T. CONCRETE BASE	C.Y.						
		S.Y.						
	TACK COAT	GAL.						
	BASE PREP. FOR ASPHALT SURFACE	L.S.						
	V.T.ASPH.CONC.PAV'T.(___ MAX.)	S.Y.						
	GRAVEL FILLING	TON						
	SODDING	S.Y.						
	TOPSOIL	C.Y.						
	PAVEMENT GRINDING (ASPHALT)	S.Y.						
	PAVEMENT GRINDING (CONCRETE)	S.Y.						
	SEALING PAV'T JOINTS & CRACKS	S.Y.						
	MANHOLE RINGS	EACH						
	SEWER FRAME ADJUSTMENT	V.F.						
	MANHOLE SEAL (CITY FURNISHED)	EACH						
	EROSION CONTROL (TYPE M)	EACH						

DEPARTMENT OF PUBLIC WORKS INFRASTRUCTURE SERVICES DIVISION FIELD OPERATIONS FIELD & DESIGN ENGINEERING MILWAUKEE, WISCONSIN					FILE NO. 460
PLAN OF:	N. 79TH ST.				(4100N, 7900W)
N. 78TH ST. TO W. HOPE AVE.					
THIS SECTION: STATION 14+00 TO W. HOPE AVE.					
DRAWN BY	W. SNYDER	DATE: 06-16-14	PROJECT NO. ST211140106		SHEET 2 OF 2
DESCRIPTIONS BY		DATE:			
LEVELS BY	BEKELE	DATE: 05-07-14	SCALE	1/4 SEC.	ALD.DIST.
LEVELS TRANSF. BY	SHIBILSKI	DATE: 05-07-14	1" = 10'	252	5
DESIGNED BY	SCHULTZ	DATE: 08-28-14	OBSTRUCTIONS - SEE OBSTRUCTION LIST		
GRADES TRANSF. BY	W. SNYDER	DATE: 10-07-14	REVISED:		
CHECKED BY	D. Ulatowski	DATE: 11/24/14	REVISED:		
APPROVED BY	Robert D. Vihl	DATE: 11/26/14	REVISED:		
FILE: V:\PWELIB\PAVING\29304.FIN					
PLOT DATE: 19-NOV-2014					

THIS SHEET

STORM DRAINAGE UNITS		
C.B.W.- 0	RESET- 2	ABANDON- 0
PROJECT IN (SEPARATED) AREA		


14+00
N.79TH
ST.
W. HOPE AVE.

EROSION CONTROL AND C.B. REQUISITION PLAN

	TYPE M	☒ - CBW	☐ - RESET	X - ABANDON	∅
THIS SHEET	4	0	2	0	NO WORK

DATE / TO	12/1/14	5/19/15			
ESTIMATING	1				
HOLLOW WALKS	1				
PUBLIC HEARING	1				
CONSTRUCTION	1	6			
SEWER	1				
WATER	1				
STREET LIGHTING	1				
BLDG. SERVICES					
MEASURING		1			
FIELD					
DISTRICT FILE	2				
FORESTRY	1				
W.E. / G.O.					
WIS. GAS CO.					
TRANSIT SYSTEM					
CABLE TV					
UND. GRD. COND.	1				
WATER DIST.	1				
WEPCO N/S					
WEPCO S/S					
SEWER SERVICES					
UTILITY COOR.	1				
Traffic Eng	1				
Rm 506		6			
PLAN SIZE	18" X 102"				

N. 79TH ST., N. 78TH ST. TO W. HOPE AVE.
STATION 14+00 TO W. HOPE AVE.   ST211140106   18" X 102"   29304   # (2 OF 2)