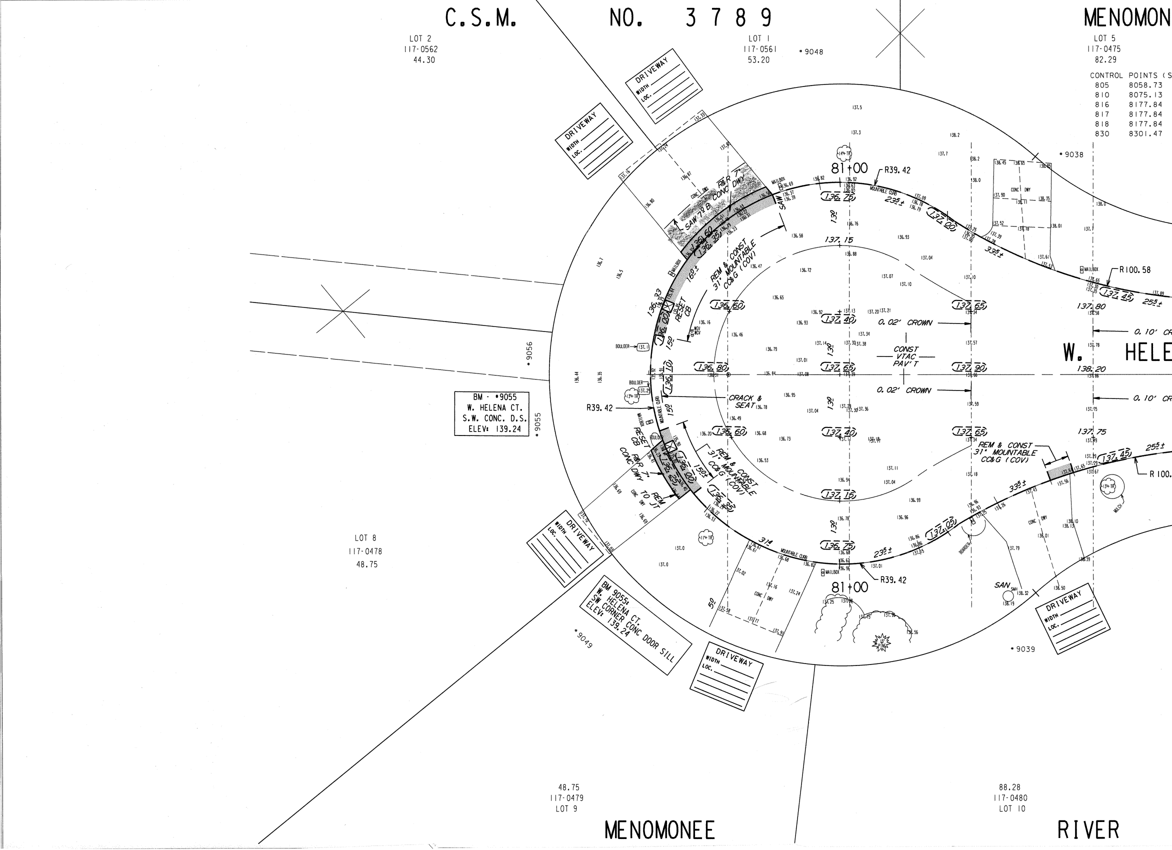
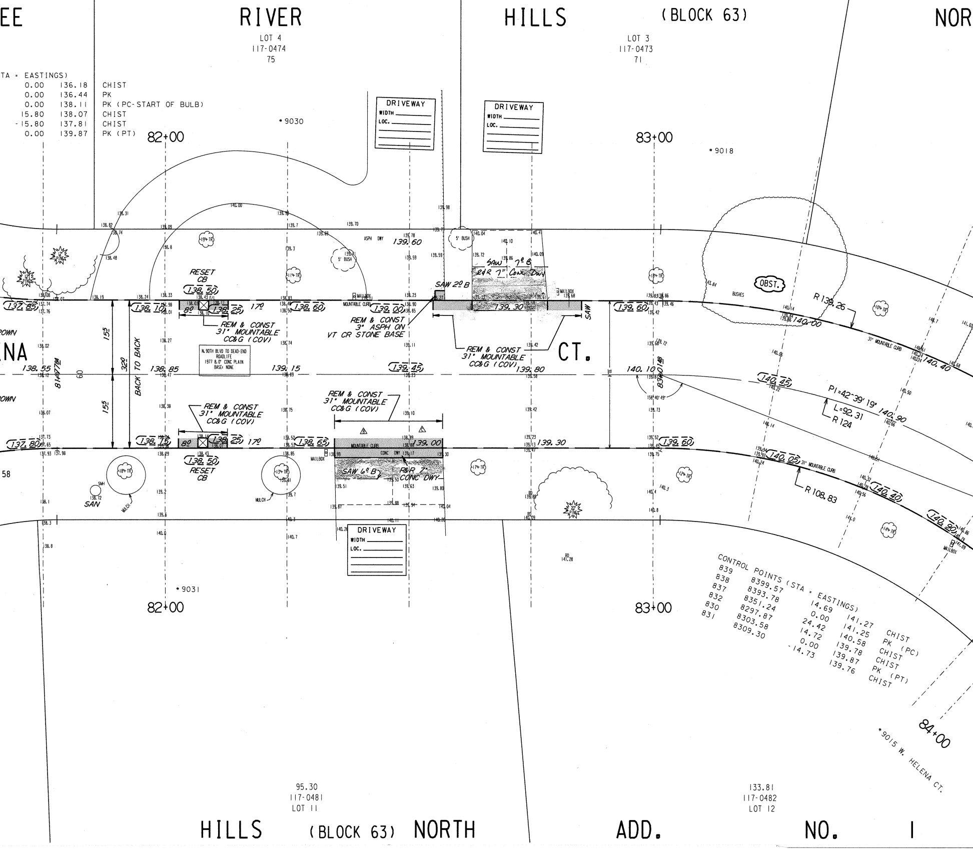

C.S.M. NO. 3789
MENOMON
LOT 2
117-0562
44.30
LOT 1
117-0561
53.20
*9048
LOT 5
117-0475
82.29
*9038
*9056
*9055
*9049
*9039
BM - *9055
W. HELENA CT.
S.W. CONC. D.S.
ELEV: 139.24
BM 9055:
W. HELENA CT.
SW CORNER CONC DOOR SILL
ELEV: 139.24
DRIVEWAY
WIDTH
LOC.
81+00
R39.42
R100.58
0.02' CROWN
0.10' CR
CONST
VTAC
PAV'T
CRACK & SEAT
REM & CONST
31" MOUNTABLE
CC&G (COV)
R&R 7" CONC DWY
SAW 7" B
SAW
RESET CB
REM TO JT
MOUNTABLE CURB
MAILBOX
BOULDER
CONC DWY
SAN
SMH
MULCH
W. HELE
LOT 8
117-0478
48.75
48.75
117-0479
LOT 9
88.28
117-0480
LOT 10
MENOMONEE
RIVER

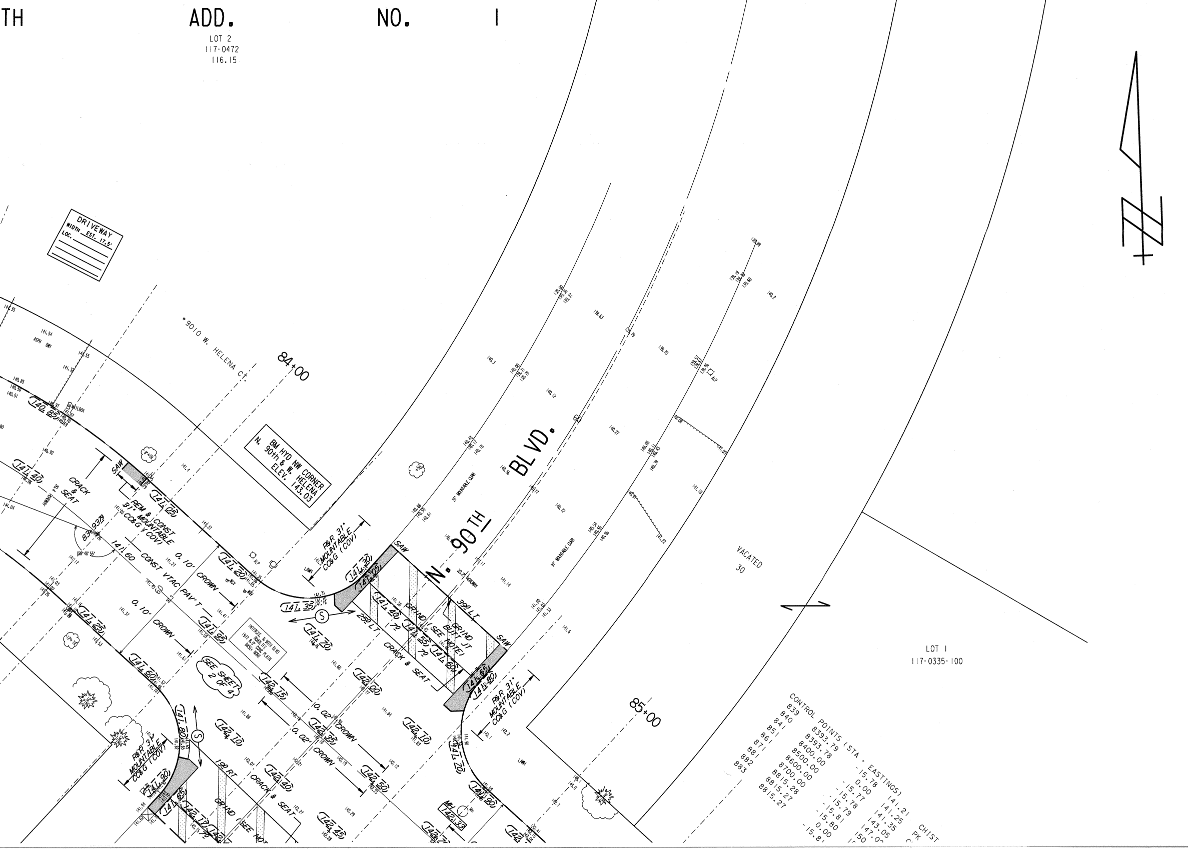
CONTROL	POINTS (S
805	8058.73
810	8075.13
816	8177.84
817	8177.84
818	8177.84
830	8301.47


EE
RIVER
HILLS
(BLOCK 63)
NOR
LOT 4
117-0474
75
LOT 3
117-0473
71
DRIVEWAY
WIDTH
LOC.
DRIVEWAY
WIDTH
LOC.
DRIVEWAY
WIDTH
LOC.
* 9030
* 9018
* 9031
82+00
83+00
84+00
RESET CB
138.50
138.70
8º
138.25
17º
138.60
139.00
139.60
ASPH DWY
5' BUSH
19" TR
11" TR
18" TR
10" TR
14" TR
17" TR
13" TR
12" TR
12" PINE
20" PINE
MAILBOX
MOUNTABLE CURB
SAW 2º B
SAW 7º B
R&R 7" CONC DWY
139.30
SAW
139.60
REM & CONST 31" MOUNTABLE CC&G (COV)
REM & CONST 3" ASPH ON VT CR STONE BASE
REM & CONST 31" MOUNTABLE CC&G (COV)
REM & CONST 31" MOUNTABLE CC&G (COV)
REM & CONST 31" MOUNTABLE CC&G (COV)
N. 90TH BLVD TO DEAD-END
ROADLIFE
1977 8.0" CONC PLAIN
BASE: NONE
NA
CT.
137.85
138.55
138.85
139.15
139.45
139.80
140.10
137.80
138.75
8º
138.25
17º
138.65
139.00
139.30
139.60
RESET CB
138.50
SAW 6º B
R&R 7" CONC DWY
CONC DWY
15'
15'
32'
BACK TO BACK
ROWN
ROWN
58
SAN
SMH
MULCH
MULCH
OBST.
BUSHES
R 139.26
140.00
140.40
31" MOUNTABLE CURB
140.45
PI=42°39'19"
L=92.31
R 124
140.90
140.05
31" MOUNTABLE CURB
R 108.83
140.40
140.90
158°40'49"
RD
95.30
117-0481
LOT 11
133.81
117-0482
LOT 12
HILLS (BLOCK 63) NORTH
ADD.
NO. 1
*9015 W. HELENA CT.

TA = EASTINGS)			
0.00	136.18	CHIST	
0.00	136.44	PK	
0.00	138.11	PK (PC-START OF BULB)	
15.80	138.07	CHIST	
-15.80	137.81	CHIST	
0.00	139.87	PK (PT)	

CONTROL POINTS (STA = EASTINGS)

839	8399.57	14.69	141.27	CHIST
838	8393.78	0.00	141.25	PK (PC)
837	8351.24	24.42	140.58	CHIST
832	8297.87	14.72	139.78	CHIST
830	8303.58	0.00	139.87	PK (PT)
831	8309.30	-14.73	139.76	CHIST


TH ADD. NO. 1
LOT 2
117-0472
116.15
DRIVEWAY
WIDTH EST. 17.5'
LOC.
9010 W. HELENA CT.
84+00
BM HYD NW CORNER
N. 90th & W. HELENA
ELEV. 143.03
N. 90TH BLVD.
31' MOUNTABLE CURB
32.2' ROADWAY
VACATED
30
LOT 1
117-0335-100
85+00
SAW
REM & CONST
31' MOUNTABLE
CC&G (COV)
CRACK & SEAT
83.9379
CONST VTAC PAV'T
0.10' CROWN
0.02' CROWN
R&R 31' MOUNTABLE CC&G (COV)
250 LT
390 LT
190 RT
GRIND (SEE NOTE)
GRIND BUTT JT
SEE SHEET 2 OF 4
INTERSEC. N. 90TH BLVD
DEADLINE
1977 8.C CONC PLAIN
BASE: NONE
MAILBOX
ALP
ASPH DWY
LAWN
MH
142.33
141.40
141.05
141.20
141.35
141.30
141.05
141.40
141.55
141.60
141.65
141.80
141.25
141.95
141.60
141.70
142.75
142.35
142.70
142.40
142.00
142.10
142.50
142.45
141.70
141.90
141.80
141.90
141.85
142.17
140.85
CONTROL POINTS (STA - EASTINGS)
839 8393.79 -15.78 141.21 CHIST
840 8393.78 0.00 141.25 PK
841 8400.00 -15.77 141.35
851 8500.00 -15.78 143.05
861 8600.00 -15.79 147.0
871 8700.00 -15.81 150
881 8815.28 -15.80
882 8815.27 0.00
883 8815.27 -15.81

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 TWO EQUAL PASSES WITH A 0.10' CROWN IN EACH PASS, REDUCING THROUGH THE INTERSECTIONS AS SHOWN.*
- *REMOVE ANY ASPHALT PATCHES WITHIN THE LIMITS OF CONSTRUCTION PRIOR TO CRACK & SEAT.*
- *ANY SAWING ALONG THE CURB FLANGE SHALL BE INCLUDED IN THE PRICE BID FOR CURB AND GUTTER.*

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.						
☒	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.						
	CONCRETE BASE	S.Y.						
☒	TACK COAT	GAL.						
☒	BASE PREP. FOR ASPHALT SURFACE	L.S.						
☒	V.T.ASPH.CONC.PAV'T.(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						
☒	CRACK & SEAT	S.Y.						
☒	JT & CRACK REPAIR	L.F.						1000

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

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

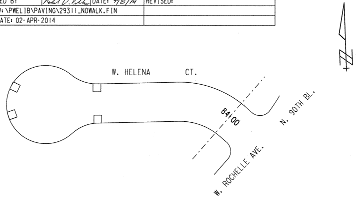
FILE NO.

PLAN OF: W. HELENA ST.
N. 86TH ST. TO N. 90TH BL.
THIS SECTION: W. HELENA CT.

DRAWN BY	S. BIEGANSKI	DATE: 1/2/14	PROJECT NO. ST211140118		SHEET 1 OF 4
DESCRIPTIONS BY	S. BIEGANSKI	DATE: 1/2/14			
LEVELS BY	LUECKING	DATE: 11/2013	SCALE	1/4 SEC.	ALD.DIST.
LEVELS TRANSF. BY		DATE:	1" = 10'	117	9
DESIGNED BY	M. MANHARDT	DATE: 2/10/14	OBSTRUCTIONS - SEE OBSTRUCTION LIST		
GRADES TRANSF. BY	G. LANGE	DATE: 3/14/14	REVISED:		
CHECKED BY	D. Ulatowski	DATE: 4/5/14	REVISED:		
APPROVED BY	Robert D. Vilter	DATE: 4/8/14	REVISED:		
FILE: V:\PWELIB\PAVING\29311_NOWALK.FIN					
PLOT DATE: 02-APR-2014					

THIS SHEET

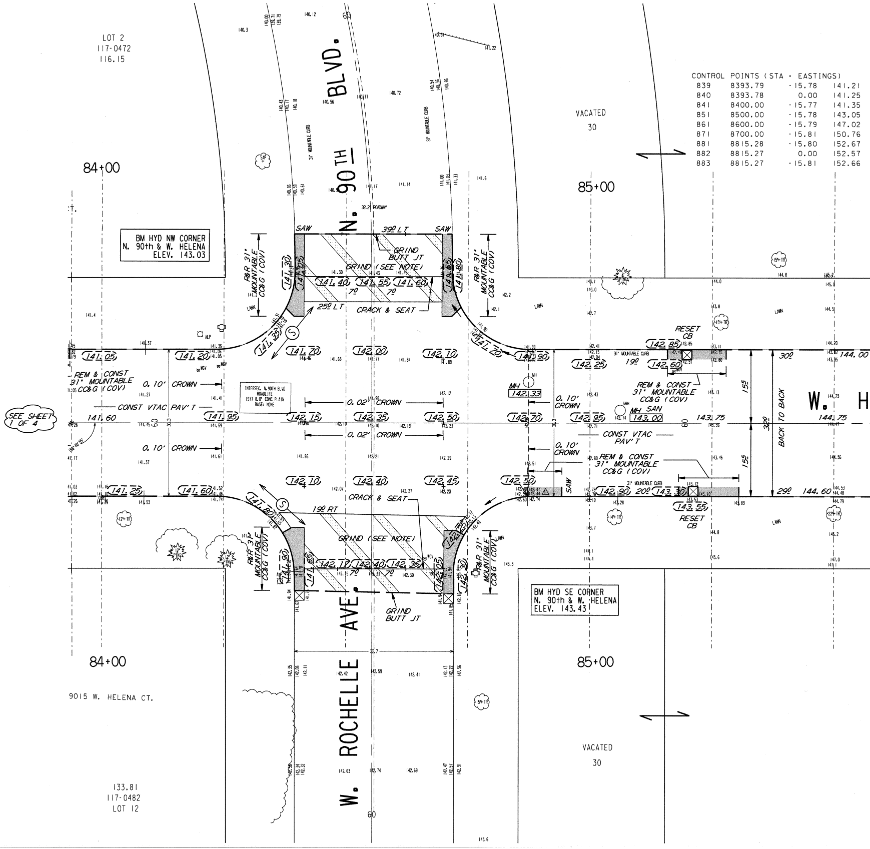
STORM DRAINAGE UNITS		
C.B.W.- 0	RESET- 4	ABANDON- 0
PROJECT IN SEPARATED AREA		


W. HELENA CT.
84+00
N. 90TH BL.
W. ROCHELLE AVE.

	EROSION CONTROL TYPE M	AND C.B. ☒ - CBW	REQUISITION ☐ - RESET	PLAN ✕ - ABANDON	☐ NO WORK
THIS SHEET	4	0	4	0	
PROJECT TOTAL	20	0	14	0	

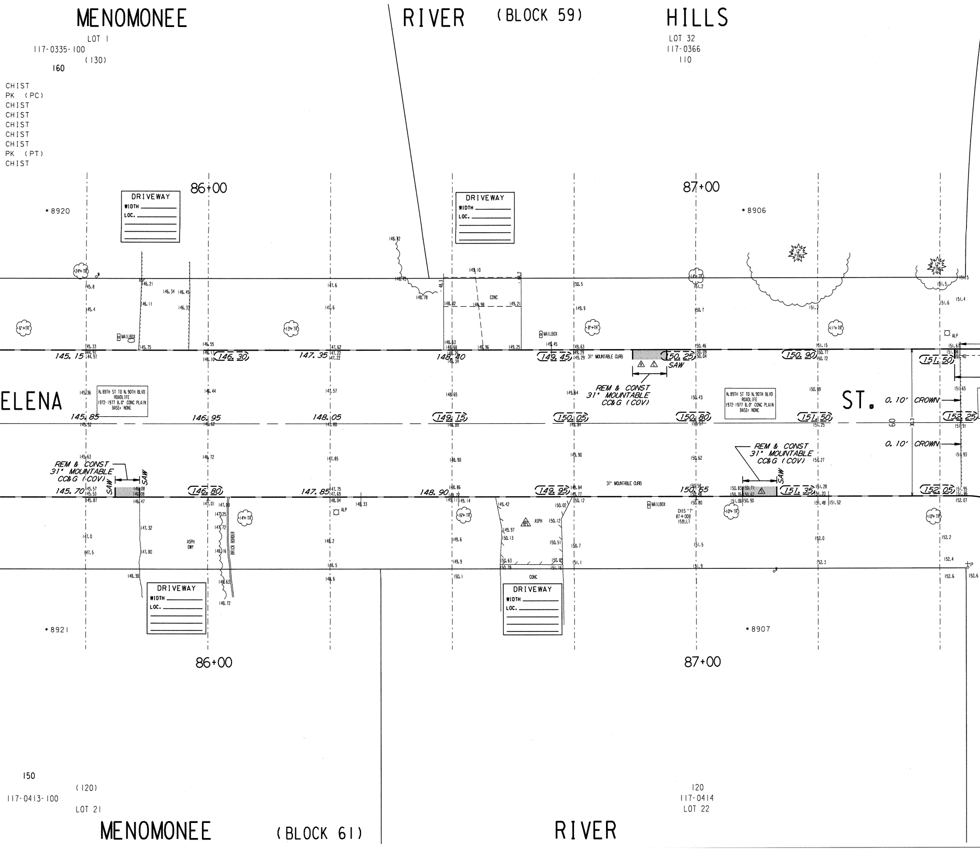
TO \ DATE	6/17/14				
ESTIMATING	1				
HOLLOW WALKS	1				
PUBLIC HEARING	1				
CONSTRUCTION	7				
SEWER	1				
WATER	1				
STREET LIGHTING	1				
BLDG. SEWERS	1				
MEASURING	1				
FIELD	1				
DISTRICT FILE	2				
FORESTRY	1				
W.E. / G.O.					
WIS. GAS CO.	1				
TRANSIT SYSTEM					
CABLE TV					
UND. GRD. COND.	1				
WATER DIST.	1				
WEPCO N/S	1				
WEPCO S/S					
SEWER SERVICES					
UTILITY COOR.	1				
Traffic Eng	1				
RM 506	15				
PLAN SIZE					

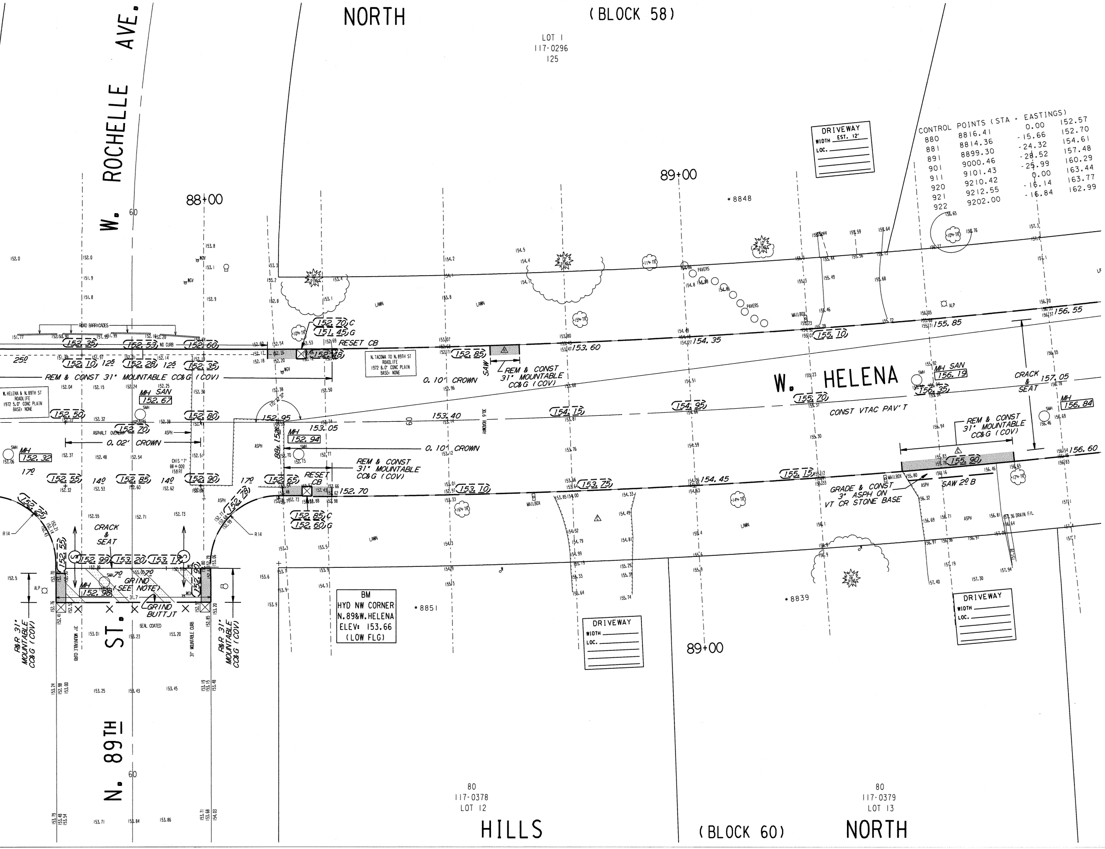
W. HELENA CT.
W. HELENA ST. - N. 86TH ST. TO N. 90TH BL. (NO WALK)
ST211140118 18" X 38" 29311 # (1 OF 4)


LOT 2
117-0472
116.15
N. 90TH BLVD.
VACATED
30
84+00
85+00
BM HYD NW CORNER
N. 90th & W. HELENA
ELEV. 143.03
SAW
39º LT
GRIND BUTT JT
GRIND (SEE NOTE)
141.40
141.55
141.60
7º
R&R 31" MOUNTABLE CC&G (COV)
25º LT
CRACK & SEAT
141.30
141.05
141.20
141.35
141.70
142.00
142.10
141.70
141.90
142.25
142.85
142.60
RESET CB
19º
30º
144.00
REM & CONST 31" MOUNTABLE CC&G (COV)
0.10' CROWN
CONST VTAC PAV'T
INTERSEC. N. 90TH BLVD
ROADLIFE
1977 8.0" CONC PLAIN
BASE: NONE
0.02' CROWN
MH 142.33
MH SAN 143.00
141.60
141.95
142.15
142.35
142.50
142.70
142.95
143.75
144.75
15º
32º
BACK TO BACK
W. H
SEE SHEET 1 OF 4
141.25
141.60
142.10
142.40
142.45
142.50
142.90
20º
143.30
143.55
29º
144.60
141.80
19º RT
142.17
142.40
142.36
141.90
141.65
142.05
142.30
142.25
GRIND BUTT JT
BM HYD SE CORNER
N. 90th & W. HELENA
ELEV. 143.43
W. ROCHELLE AVE.
84+00
85+00
9015 W. HELENA CT.
133.81
117-0482
LOT 12
VACATED
30
60

CONTROL POINTS (STA = EASTINGS)

839	8393.79	-15.78	141.21
840	8393.78	0.00	141.25
841	8400.00	-15.77	141.35
851	8500.00	-15.78	143.05
861	8600.00	-15.79	147.02
871	8700.00	-15.81	150.76
881	8815.28	-15.80	152.67
882	8815.27	0.00	152.57
883	8815.27	-15.81	152.66


MENOMONEE
RIVER (BLOCK 59)
HILLS
LOT 1
117-0335-100
(130)
160
LOT 32
117-0366
110
CHIST
PK (PC)
CHIST
CHIST
CHIST
CHIST
CHIST
PK (PT)
CHIST
86+00
87+00
DRIVEWAY
WIDTH
LOC.
• 8920
• 8906
• 8921
• 8907
MAILBOX
CONC
ASPH
ASPH DWY
BRICK BORDER
ALP
31" MOUNTABLE CURB
REM & CONST 31" MOUNTABLE CC&G (COV)
SAW
N. 89TH ST TO N. 90TH BLVD ROADLIFE 1972-1977 8.0" CONC PLAIN BASE: NONE
ELENA
ST.
0.10' CROWN
60
30.3
CHIS "T" 87+009 158LLT
145.15
146.30
147.35
148.40
149.45
150.25
150.90
151.50
145.85
146.95
148.05
149.15
150.05
150.80
151.50
152.25
145.70
146.80
147.85
148.90
149.95
150.55
151.35
152.05
24" TR
13" TR
8" TR
11" TR
14" TR
16" TR
10" TR
12" PINE
150
(120)
117-0413-100
LOT 21
120
117-0414
LOT 22
MENOMONEE (BLOCK 61)
RIVER



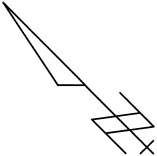
NORTH
(BLOCK 58)
LOT 1
117-0296
125
W. ROCHELLE AVE.
60
88+00
89+00
•8848
•8851
•8839
ROAD BARRICADES
NO CURB
(152.35)
(152.53)
(152.60)
(152.10) 12.5
(152.28) 12.5
(152.35)
25.0
REM & CONST 31" MOUNTABLE CC&G (COV)
W. HELENA & N. 89TH ST
ROADLIFE
1972 5.0" CONC PLAIN
BASE: NONE
N. TACOMA TO N. 89TH ST
ROADLIFE
1972 8.0" CONC PLAIN
BASE: NONE
MH SAN 152.67
(152.50)
(152.70)
(152.80)
ASPHALT OVERLAY
ASPH
0.02' CROWN
MH 152.32
17.0
(152.55) 14.0 (152.85) 14.0 (152.90)
17.0
CHIS "T"
88+00.0
15.8 RT
(152.70) C
(151.45) G
RESET CB
(152.48)
172°32'37"
152.95
153.05
88+15.28
MH 152.94
0.10' CROWN
REM & CONST 31" MOUNTABLE CC&G (COV)
RESET CB
(152.65)
152.70
(152.85) C
(152.60) G
(152.78)
(152.25)
R14
R14
CRACK & SEAT
(152.55)
(152.99) (153.20) (153.17)
(152.90)
MH 152.98
7.0
GRIND (SEE NOTE)
7.0
31.7
GRIND BUTTJT
SEAL COATED
31" MOUNTABLE CURB
R&R 31" MOUNTABLE CC&G (COV)
R&R 31" MOUNTABLE CC&G (COV)
ALP
N. 89TH ST.
60
BM
HYD NW CORNER
N.89&W.HELENA
ELEV: 153.66
(LOW FLG)
LAWN
20" PINE
10" TR
15" TR
14" TR
16" TR
12" TR
PAVERS
MAILBOX
(152.85)
SAW
REM & CONST 31" MOUNTABLE CC&G (COV)
0.10' CROWN
153.40
60
30.6 ROADWAY
153.60
(154.15)
(153.10)
(153.75)
154.35
(154.95)
154.45
(155.10)
(155.70)
(155.15)
W. HELENA
CONST VTAC PAV'T
155.85
156.55
MH SAN 156.19
(156.35)
CRACK & SEAT
157.05
MH 156.84
REM & CONST 31" MOUNTABLE CC&G (COV)
(155.90)
156.60
GRADE & CONST 3" ASPH ON VT CR STONE BASE
SAW 2.0 B
ASPH
157.36 DRAIN F/L
DRIVEWAY
WIDTH EST. 12'
LOC.
DRIVEWAY
WIDTH
LOC.
DRIVEWAY
WIDTH
LOC.
80
117-0378
LOT 12
HILLS
(BLOCK 60)
80
117-0379
LOT 13
NORTH

CONTROL POINTS (STA = EASTINGS)

880	8816.41	0.00	152.57
881	8814.36	-15.66	152.70
891	8899.30	-24.32	154.61
901	9000.46	-28.52	157.48
911	9101.43	-25.99	160.29
920	9210.42	0.00	163.44
921	9212.55	-16.14	163.77
922	9202.00	-16.84	162.99

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.*



SEE SHEET 3 OF 4

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.						
	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.						
	CONCRETE BASE	S.Y.						
	TACK COAT	GAL.						
	BASE PREP. FOR ASPHALT SURFACE	L.S.						
	V.T.ASPH.CONC.PAV'T.(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						

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

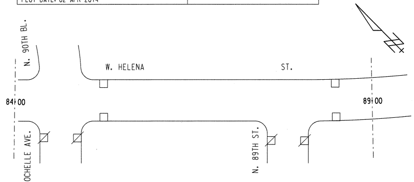
FILE NO. 257

PLAN OF: W. HELENA ST.
N. 86TH ST. TO N. 90TH BL.
THIS SECTION: N. 90TH BL. TO PT. E. OF N. 89TH ST.

DRAWN BY	S. BIEGANSKI	DATE: 1/2/14	PROJECT NO.		
DESCRIPTIONS BY	S. BIEGANSKI	DATE: 1/2/14	ST211140118	SHEET 2 OF 4	
LEVELS BY	LUECKING	DATE: 11/2013	SCALE	1/4 SEC.	ALD.DIST.
LEVELS TRANSF. BY		DATE:	1"=10'	117	9
DESIGNED BY	M. MANHARDT	DATE: 2/10/14	OBSTRUCTIONS - SEE OBSTRUCTION LIST		
GRADES TRANSF. BY	G. LANGE	DATE: 3/14/14	REVISED:		
CHECKED BY	D. Ulatowski	DATE: 4/4/14	REVISED:		
APPROVED BY		DATE:	REVISED:		
FILE: V:\PWELIB\PAVING\29311_NOWALK.FIN					
PLOT DATE: 02-APR-2014					

THIS SHEET

STORM DRAINAGE UNITS		
C.B.W.- 0	RESET- 4	ABANDON- 0
PROJECT IN SEPARATED AREA		

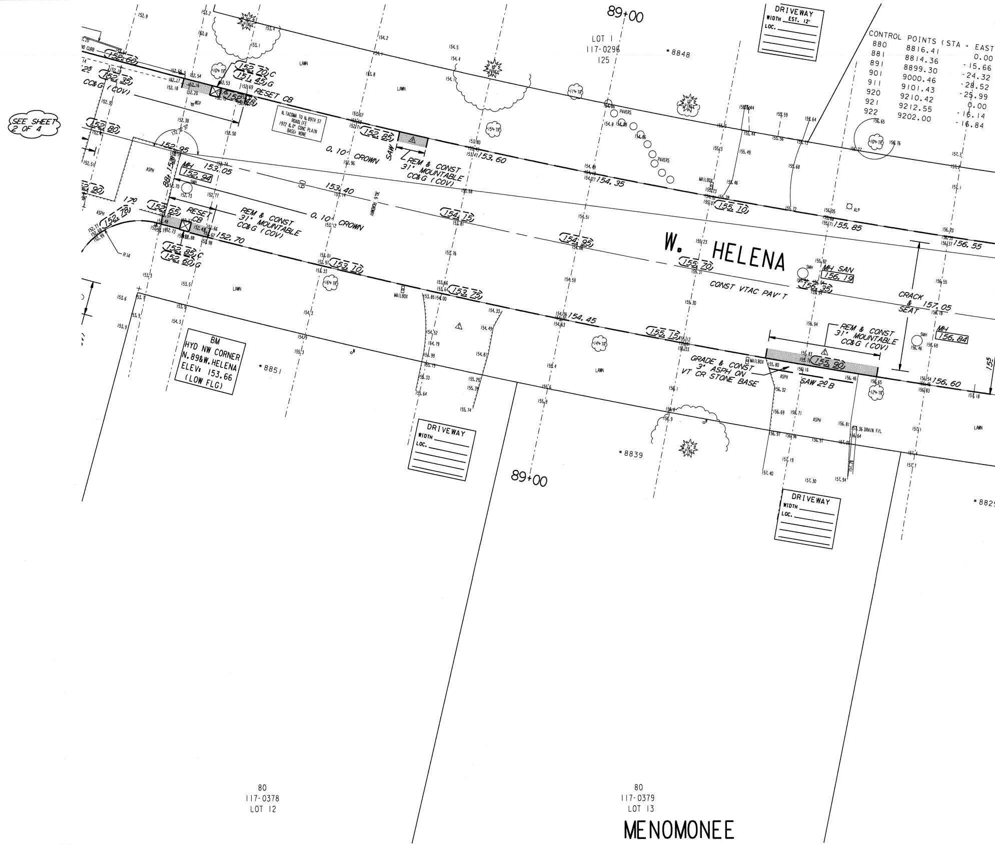

N. 90TH BL.
W. HELENA
ST.
84+00
89+00
W. ROCHELLE AVE.
N. 89TH ST.

DATE / TO	6/17/14				
ESTIMATING	1				
HOLLOW WALKS	1				
PUBLIC HEARING	1				
CONSTRUCTION	7				
SEWER	1				
WATER	1				
STREET LIGHTING	1				
BLDG. SEWERS	1				
MEASURING	1				
FIELD	1				
DISTRICT FILE	2				
FORESTRY	1				
W.E. / G.O.					
WIS. GAS CO.	1				
TRANSIT SYSTEM					
CABLE TV					
UND. GRD. COND.	1				
WATER DIST.	1				
WEPCO N/S	1				
WEPCO S/S					
SEWER SERVICES					
UTILITY COOR.	1				
Traffic Eng RM 506	1				
	15				
PLAN SIZE					

EROSION CONTROL AND C.B. REQUISITION PLAN

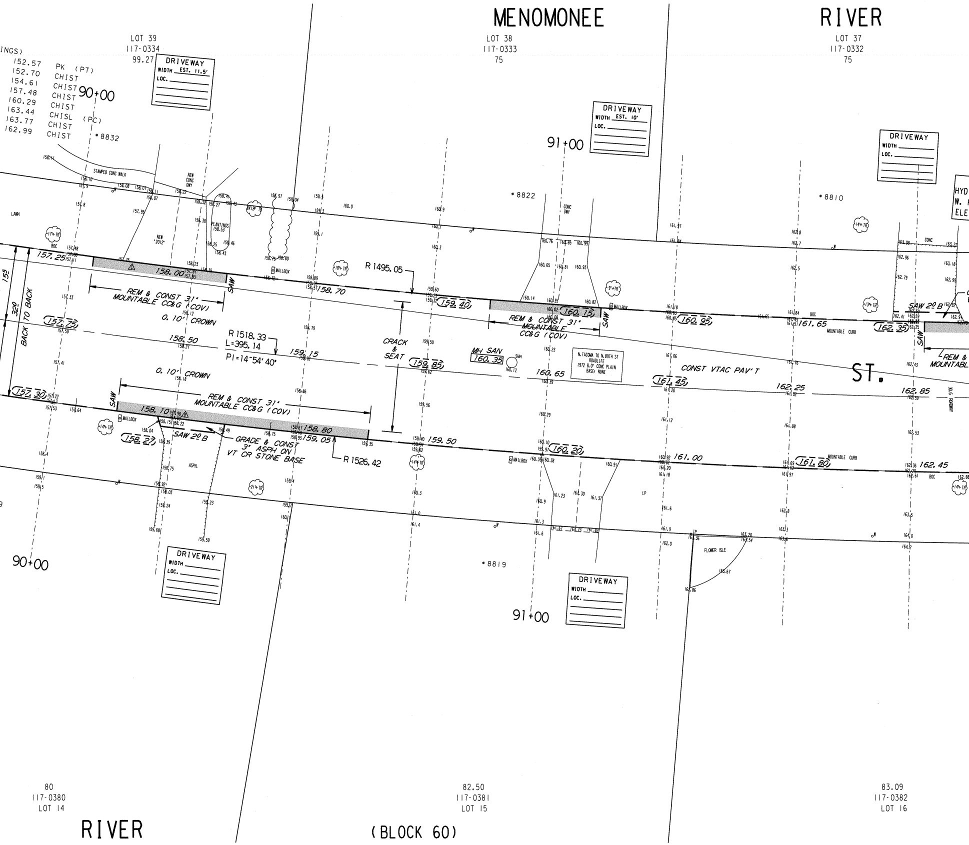
	TYPE M	☒ - CBW	☐ - RESET	× - ABANDON	⧄
THIS SHEET	8	0	4	0	NO WORK

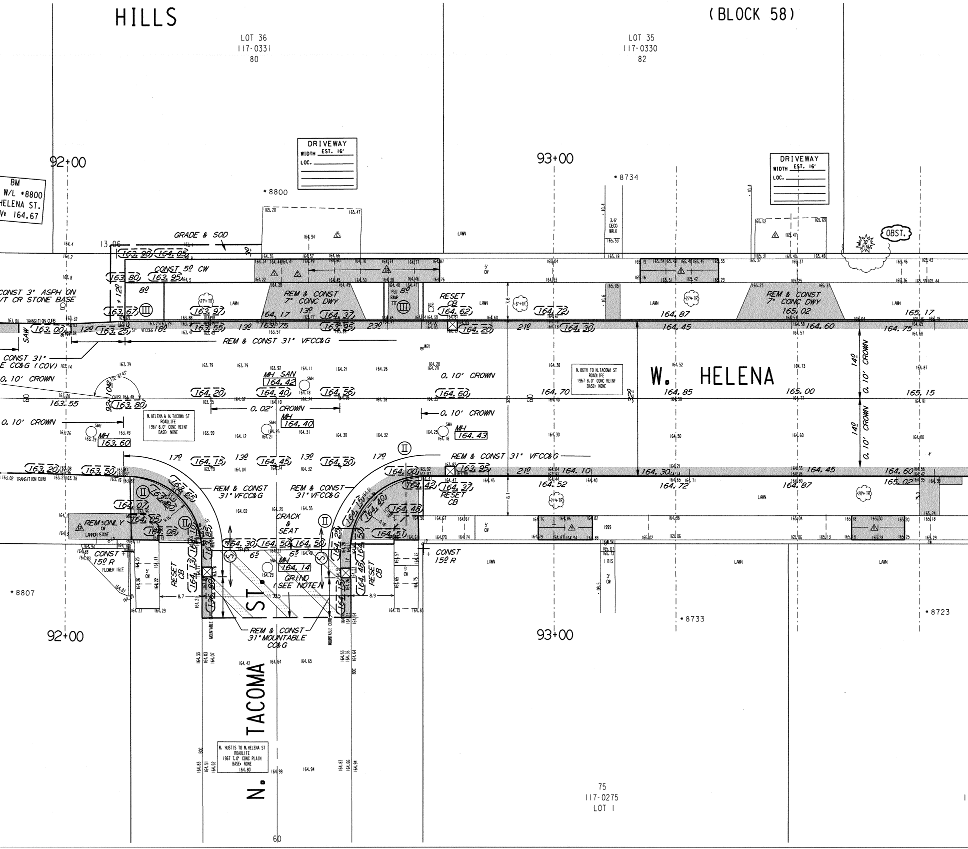
W. HELENA ST. - N. 86TH ST. TO N. 90TH BL. (NO WALK) (2 OF 4)
N. 90TH BL. TO PT. E. OF N. 89TH ST. ST211140118 18" X 38" # 29311 257

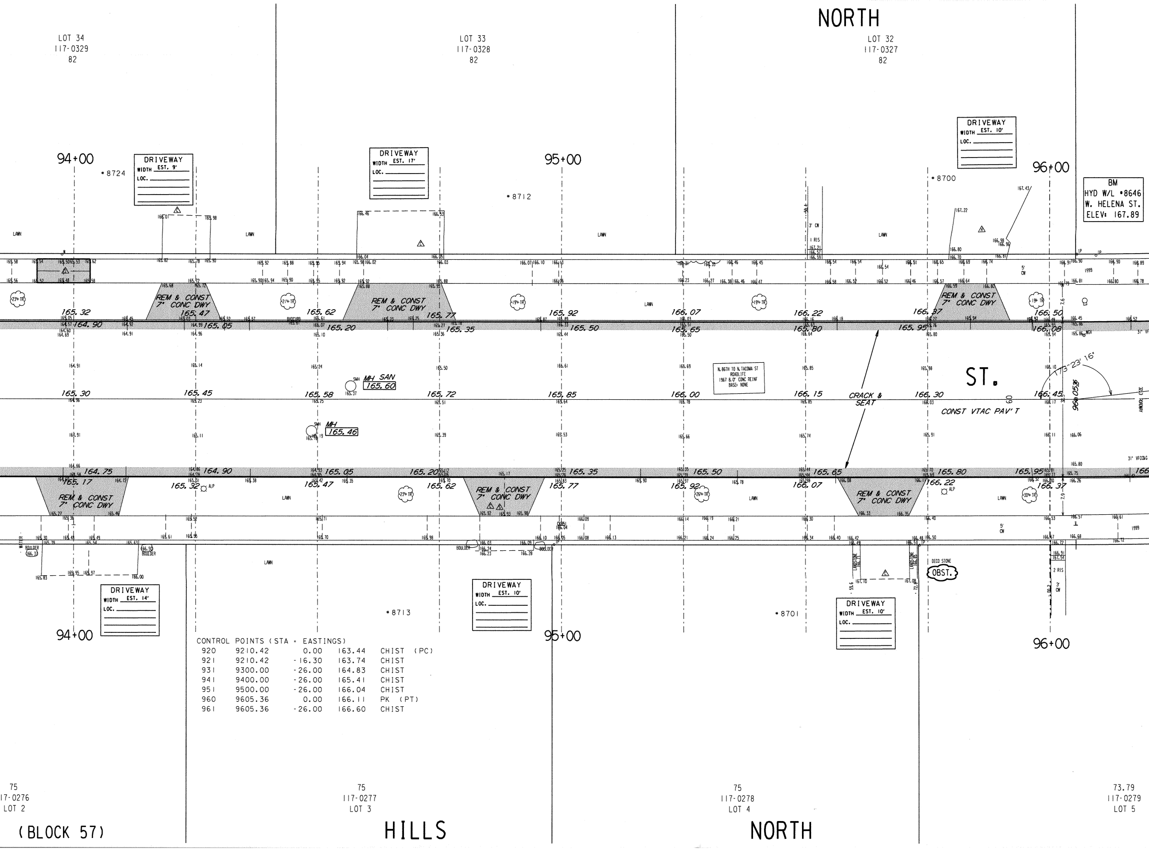

SEE SHEET 2 OF 4
89+00
LOT 1
117-0296
125
*8848
DRIVEWAY
WIDTH EST. 12'
LOC.
W. HELENA
CONST VTAC PAV'T
0.10' CROWN
REM & CONST 31" MOUNTABLE CC&G (COV)
RESET CB
SAW
N. TACOMA TO N. 89TH ST ROAD LIFE 1972 8.0" CONC PLAIN BASE: NONE
MH 153.05
152.94
MH SAN
156.19
MH
156.84
CRACK & SEAT
157.05
GRADE & CONST 3" ASPH ON VT CR STONE BASE
SAW 2" B
BM
HYD NW CORNER
N.89&W.HELENA
ELEV: 153.66
(LOW FLG)
*8851
*8839
*882
LAWN
ASPH
PAVERS
MAILBOX
ALP
SMH
R14
179
88+15
153.40
154.15
154.95
155.70
156.35
152.60
152.35
152.80
152.90
152.78
152.65
152.85 C
152.60 G
152.70 C
151.45 G
152.48
152.70
152.85
153.10
153.60
153.75
154.35
154.45
155.10
155.15
155.85
155.90
156.55
156.60
DRIVEWAY
WIDTH
LOC.
80
117-0378
LOT 12
80
117-0379
LOT 13
MENOMONEE

CONTROL POINTS (STA = EAST

880	8816.41	0.00
881	8814.36	-15.66
891	8899.30	-24.32
901	9000.46	-28.52
911	9101.43	-25.99
920	9210.42	0.00
921	9212.55	-16.14
922	9202.00	-16.84

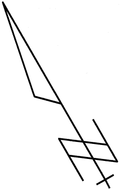

MENOMONEE
RIVER
LOT 39
117-0334
99.27
LOT 38
117-0333
75
LOT 37
117-0332
75
INGS)
152.57 PK (PT)
152.70 CHIST
154.61 CHIST
157.48 CHIST
160.29 CHIST
163.44 CHISL (PC)
163.77 CHIST
162.99 CHIST
90+00
91+00
DRIVEWAY
WIDTH EST. 11.5'
LOC.
DRIVEWAY
WIDTH EST. 10'
LOC.
DRIVEWAY
WIDTH
LOC.
HYD
W.
ELE
*8832
*8822
*8810
*8819
STAMPED CONC WALK
NEW CONC DWY
NEW "2012"
PLANTINGS 158.53
CONC DWY
LAWN
ASPH.
MAILBOX
SMH
LP
FLOWER ISLE
MOUNTABLE CURB
BOC
CONC
157.25
158.00
158.70
159.40
160.15
160.95
161.65
162.35
157.75
158.50
159.15
159.85
160.65
161.45
162.25
162.85
157.30
158.10
158.27
158.80
159.05
159.50
160.20
161.00
161.80
162.45
155
32'
BACK TO BACK
REM & CONST 31' MOUNTABLE CC&G (COV)
REM & CONST 31' MOUNTABLE CC&G (COV)
REM & CONST 31' MOUNTABLE CC&G (COV)
REM & MOUNTABL
SAW
SAW 2º B
SAW 2º B
0.10' CROWN
0.10' CROWN
R 1495.05
R 1518.33
L=395.14
PI=14°54'40"
R 1526.42
CRACK & SEAT
GRADE & CONST 3" ASPH ON VT CR STONE BASE
MH SAN 160.35
N. TACOMA TO N. 89TH ST ROADLIFE 1972 8.0" CONC PLAIN BASE: NONE
CONST VTAC PAV'T
ST.
30.6 ROADWAY
80
117-0380
LOT 14
82.50
117-0381
LOT 15
83.09
117-0382
LOT 16
RIVER
(BLOCK 60)


HILLS
(BLOCK 58)
LOT 36
117-0331
80
LOT 35
117-0330
82
92+00
93+00
BM
W/L •8800
HELENA ST.
V: 164.67
DRIVEWAY
WIDTH EST. 16'
LOC.
DRIVEWAY
WIDTH EST. 16'
LOC.
•8800
•8734
•8807
•8733
•8723
GRADE & SOD
CONST 5' CW
CONST 3" ASPH ON
T CR STONE BASE
REM & CONST
7" CONC DWY
REM & CONST
7" CONC DWY
PED
RAMP
RESET
CB
RESET
CB
RESET
CB
RESET
CB
3.6'
DECO
WALK
OBST.
20"
PINE
LAWN
TRANSITION CURB
SAW
CONST 31"
E CC&G (COV)
REM & CONST 31" VFCC&G
REM & CONST 31" VFCC&G
0.10' CROWN
0.10' CROWN
0.10' CROWN
0.10' CROWN
0.10' CROWN
0.02' CROWN
MH SAN
164.42
MH
163.60
MH
164.40
MH
164.43
MH
164.14
W. HELENA & N. TACOMA ST
ROADLIFE
1967 8.0" CONC REINF
BASE: NONE
N. 86TH TO N. TACOMA ST
ROADLIFE
1967 8.0" CONC REINF
BASE: NONE
W. HUSTIS TO W. HELENA ST
ROADLIFE
1967 7.0" CONC PLAIN
BASE: NONE
164.80
W. HELENA
REM & CONST
31" VFCC&G
REM & CONST
31" VFCC&G
CRACK
&
SEAT
REM ONLY
LANNON STONE
CONST
15' R
FLOWER ISLE
CONST
15' R
GRIND
(SEE NOTE)
REM & CONST
31" MOUNTABLE
CC&G
MOUNTABLE
MOUNTABLE CURB
N. TACOMA ST
75
117-0275
LOT 1
60
60
60
32'
14'
14'
13.06
12'
8'
8'
13'
13'
23'
21'
21'
17'
13'
13'
17'
6'
6'
8.7
8.9
33.5
163.00
163.25
163.20
163.50
163.55
163.80
163.67
163.97
163.95
164.05
163.90
163.80
164.17
164.37
163.95
164.20
164.40
164.56
164.60
164.62
164.20
164.72
164.30
164.70
164.87
164.45
164.85
165.02
164.60
165.00
165.17
164.75
165.15
164.15
164.45
164.50
164.00
164.42
164.37
163.95
164.10
164.52
164.72
164.30
164.45
164.87
164.60
165.02
164.30
164.50
164.50
164.07
164.05
164.08
164.48
164.51


NORTH
LOT 34
117-0329
82
LOT 33
117-0328
82
LOT 32
117-0327
82
94+00
95+00
96+00
DRIVEWAY WIDTH EST. 9' LOC.
DRIVEWAY WIDTH EST. 17' LOC.
DRIVEWAY WIDTH EST. 10' LOC.
DRIVEWAY WIDTH EST. 14' LOC.
BM
HYD W/L •8646
W. HELENA ST.
ELEV: 167.89
•8724
•8712
•8700
•8713
•8701
LAWN
REM & CONST 7" CONC DWY
MH SAN 165.60
MH 165.46
N. 86TH TO N. TACOMA ST ROADLIFE 1967 8.0" CONC REINF BASE: NONE
CRACK & SEAT
ST.
CONST VTAC PAV'T
BOULDER
DECO STONE
OBST.
ALP
1999
165.32
164.90
165.47
165.05
165.62
165.20
165.77
165.35
165.92
165.50
166.07
165.65
166.22
165.80
166.37
165.95
166.50
166.08
165.30
165.45
165.58
165.72
165.85
166.00
166.15
166.30
166.45
164.75
165.17
165.32
165.05
165.47
165.20
165.62
165.35
165.77
165.50
165.92
165.65
166.07
165.80
166.22
165.95
166.37
75
117-0276
LOT 2
75
117-0277
LOT 3
75
117-0278
LOT 4
73.79
117-0279
LOT 5
(BLOCK 57)
HILLS
NORTH

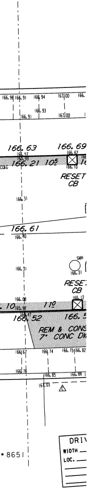
CONTROL POINTS (STA • EASTINGS)

920	9210.42	0.00	163.44	CHIST (PC)
921	9210.42	-16.30	163.74	CHIST
931	9300.00	-26.00	164.83	CHIST
941	9400.00	-26.00	165.41	CHIST
951	9500.00	-26.00	166.04	CHIST
960	9605.36	0.00	166.11	PK (PT)
961	9605.36	-26.00	166.60	CHIST



NOTES :

- Ⓘ, Ⓘⓘ, Ⓘⓘⓘ, 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.


166.98
166.91
166.94
167.00
166.
166.93
166.91
167.00
166.63
166.69
166.57
165.99
166.62
166.21
105
166.10
CC&G
RESET
CB
166.31
166.61
166.40
166.31
SMH
166.31
RESE
CB
166.08
166.12
10
165.92
110
166.47
166.52
166.5
REM & CONS
7" CONC DV
166.67
166.74
166.75
166.82
166.76
166.85
166.88
167.03
C
DRI
WIDTH
LOC.
* 8651

SEE SHEET 4 OF 4

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
VG	VERY GOOD
VP	VERY POOR

ESTIMATE / CERTIFICATE QUANTITIES

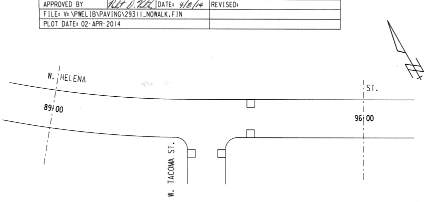
	DESCRIPTION	UNIT	ASSESS.	X-ING			PLAN TOT.	PROJ.TOT.
	MOBILIZATION	L.S.						
	FINISHING ROADWAY	L.S.						
	BARRICADING AND SIGNING	L.S.						
	CUTTING	C.Y.						
	ROADWAY CUTTING	C.Y.						
	FILLING	C.Y.						
	ROADWAY FILLING	C.Y.						
	PAVEMENT REMOVAL	S.Y.						
	BITUMINOUS SURFACE REMOVAL	S.Y.						
	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.						
	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.						
	CONCRETE BASE	S.Y.						
	TACK COAT	GAL.						
	BASE PREP. FOR ASPHALT SURFACE	L.S.						
	V.T.ASPH.CONC.PAV'T.(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						

DEPARTMENT OF PUBLIC WORKS INFRASTRUCTURE SERVICES DIVISION FIELD OPERATIONS FIELD & DESIGN ENGINEERING MILWAUKEE, WISCONSIN					FILE NO. 258
PLAN OF: W. HELENA ST.					
N. 86TH ST. TO N. 90TH BL.					
THIS SECTION: PT. E. OF N. 89TH ST. TO PT. E. OF W. TACOMA ST.					
DRAWN BY	S. BIEGANSKI	DATE: 1/2/14	PROJECT NO. ST211140118		SHEET 3 OF 4
DESCRIPTIONS BY	S. BIEGANSKI	DATE: 1/2/14			
LEVELS BY	LUECKING	DATE: 11/2013	SCALE	1/4 SEC.	ALD.DIST.
LEVELS TRANSF. BY		DATE:	1"=10'	117	9
DESIGNED BY	M. MANHARDT	DATE: 2/10/14	OBSTRUCTIONS - SEE OBSTRUCTION LIST		
GRADES TRANSF. BY	G. LANGE	DATE: 3/14/14	REVISED:		
CHECKED BY	D. Ulatoski	DATE: 4/5/14	REVISED:		
APPROVED BY	Robt D. V	DATE: 4/8/14	REVISED:		
FILE: V:\PWELIB\PAVING\29311_NOWALK.FIN					
PLOT DATE: 02-APR-2014					

THIS SHEET

STORM DRAINAGE UNITS		
C.B.W. - 0	RESET - 4	ABANDON - 0
PROJECT IN SEPARATED AREA		

DATE / TO	6/17/14				
ESTIMATING	1				
HOLLOW WALKS	1				
PUBLIC HEARING	1				
CONSTRUCTION	7				
SEWER	1				
WATER	1				
STREET LIGHTING	1				
BLDG. SEWERS	1				
MEASURING	1				
FIELD	1				
DISTRICT FILE	2				
FORESTRY	1				
W.E. / G.O.					
WIS. GAS CO.	1				
TRANSIT SYSTEM					
CABLE TV					
UND. GRD. COND.	1				
WATER DIST.	1				
WEPCO N/S	1				
WEPCO S/S					
SEWER SERVICES					
UTILITY COOR.	1				
Traffic Eng	1				
RM506	15				
PLAN SIZE					

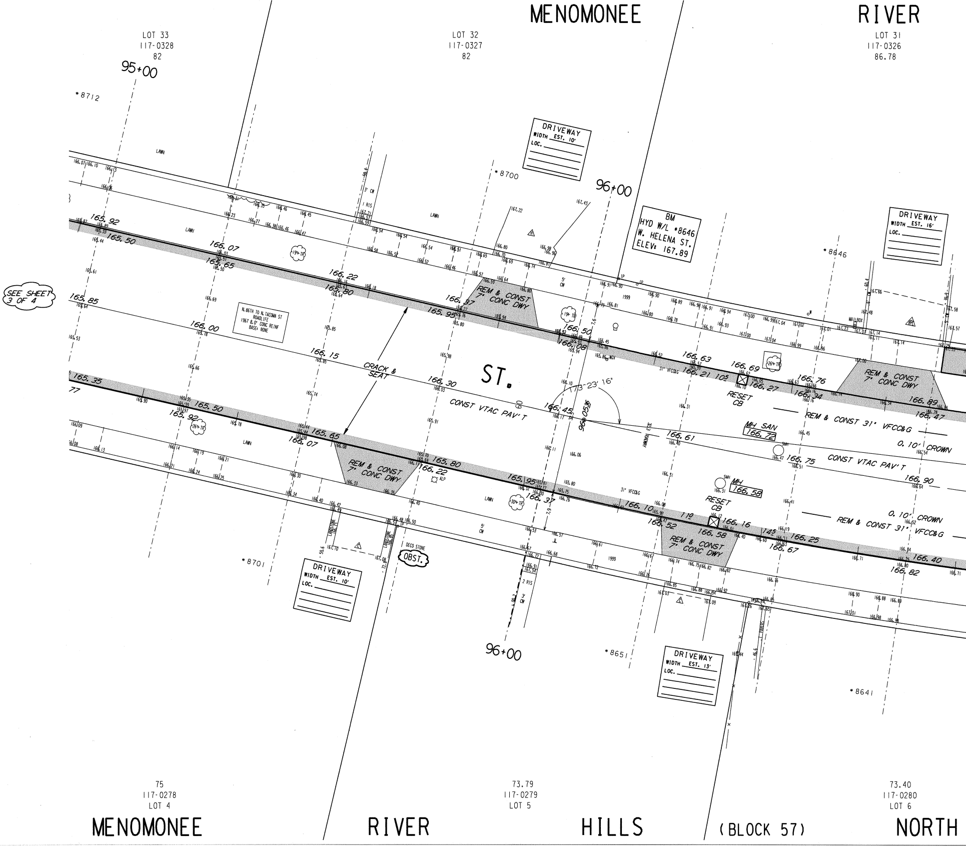

W. HELENA
ST.
89+00
96+00
W. TACOMA ST.

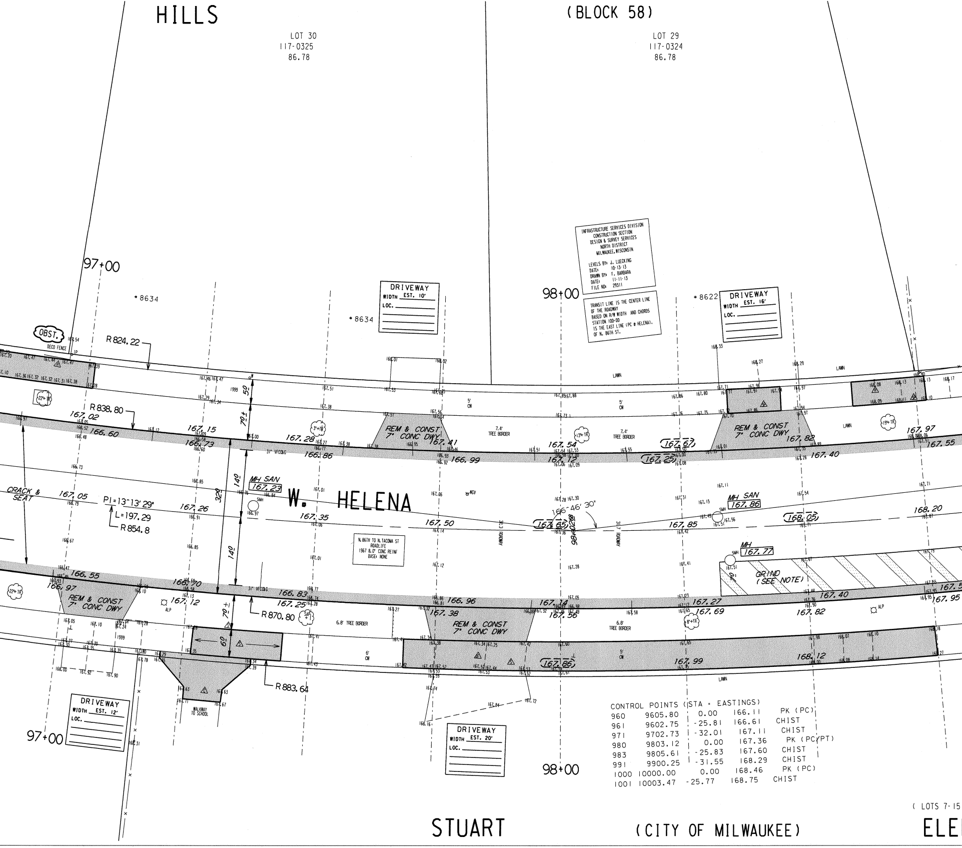
EROSION CONTROL AND C.B. REQUISITION PLAN

	TYPE M	☒ - CBW	☐ - RESET	× - ABANDON	☐ NO WORK
THIS SHEET	4	0	4	0	

W. HELENA ST. - N. 86TH ST. TO N. 90TH BL. (NO WALK) 18" X 120" (3 OF 4)

PT. E. OF N. 89TH ST. TO PT. E. OF W. ST211140118 29311 # 258


MENOMONEE RIVER
LOT 33
117-0328
82
LOT 32
117-0327
82
LOT 31
117-0326
86.78
95+00
96+00
*8712
*8700
*8646
*8701
*8651
*8641
DRIVEWAY WIDTH EST. 10' LOC.
DRIVEWAY WIDTH EST. 16' LOC.
DRIVEWAY WIDTH EST. 13' LOC.
BM HYD W/L *8646 W. HELENA ST. ELEV: 167.89
SEE SHEET 3 OF 4
N. 86TH TO N. TACOMA ST ROADLIFE 1967 & 0' CONC REINF BASE: NONE
CRACK & SEAT
ST.
CONST VTAC PAV'T
173°23'16"
96+05
REM & CONST 7' CONC DWY
RESET CB
MH SAN 166.72
MH 166.58
REM & CONST 31' VFCC&G
0.10' CROWN
OBST.
LAWN
DECO STONE
75
117-0278
LOT 4
73.79
117-0279
LOT 5
73.40
117-0280
LOT 6
MENOMONEE RIVER HILLS (BLOCK 57) NORTH


HILLS
(BLOCK 58)
LOT 30
117-0325
86.78
LOT 29
117-0324
86.78
97+00
98+00
*8634
*8634
*8622
DRIVEWAY
WIDTH EST. 10'
LOC.
DRIVEWAY
WIDTH EST. 16'
LOC.
DRIVEWAY
WIDTH EST. 12'
LOC.
DRIVEWAY
WIDTH EST. 20'
LOC.
OBST.
DECO FENCE
R 824.22
R 838.80
R 854.8
R 870.80
R 883.64
PI = 13°13' 29"
L = 197.29
CRACK & SEAT
MH SAN
167.23
MH SAN
167.86
MH
167.77
SMH
W. HELENA
166°46' 30"
REM & CONST 7" CONC DWY
REM & CONST 7" CONC DWY
REM & CONST 7" CONC DWY
REM & CONST 7" CONC DWY
GRIND (SEE NOTE)
7.4' TREE BORDER
7.4' TREE BORDER
6.8' TREE BORDER
6.8' TREE BORDER
5' CW
5' CW
6' CW
5' CW
LAWN
31" VFCC&G
31" VFCC&G
32.3 ROADWAY
31.7 ROADWAY
70±
70±
140
140
320
50
60
ALP
ALP
WALKWAY TO SCHOOL
1999
1999
167.02
166.60
167.15
166.73
167.28
166.86
167.41
166.99
167.54
167.12
(167.67)
(167.25)
167.82
167.40
167.97
167.55
167.05
167.26
167.35
167.50
(167.65)
167.85
(168.05)
168.20
166.55
166.97
166.70
167.12
166.83
167.25
166.96
167.38
167.14
167.56
167.27
167.69
167.40
167.82
(167.86)
167.99
168.12
STUART
(CITY OF MILWAUKEE)
(LOTS 7-15
ELE

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

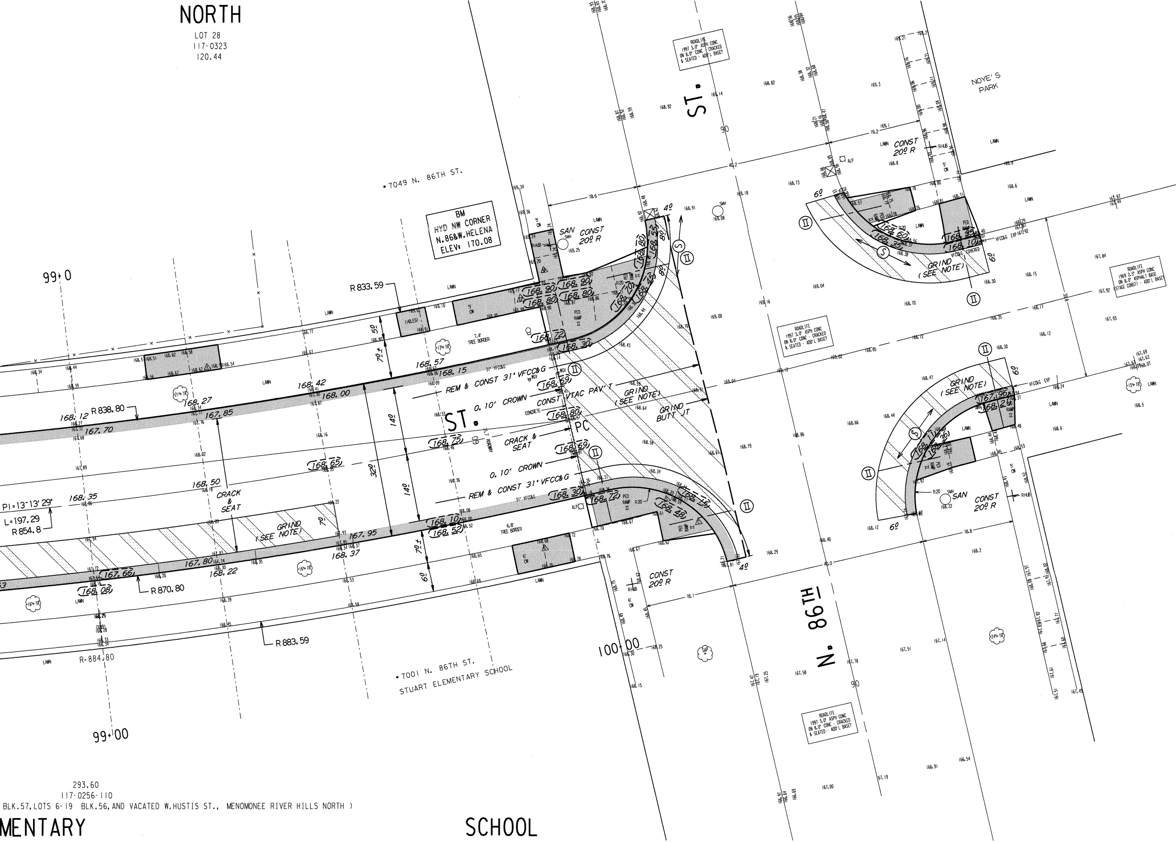
LEVELS BY: J. LUECKING
DATE: 10-13-13
DRAWN BY: F. BARBARA
DATE: 11-11-13
FILE NO: 29311

TRANSIT LINE IS THE CENTER LINE OF THE ROADWAY BASED ON R/W WIDTH AND CHORDS STATION 100+00 IS THE EAST LINE (PC @ HELENA). OF N. 86TH ST.

N. 86TH TO N. TACOMA ST
ROADLIFE
1967 8.0" CONC REINF
BASE: NONE

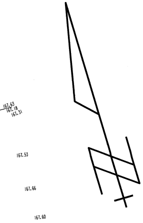
CONTROL POINTS (STA - EASTINGS)

960	9605.80	0.00	166.11	PK (PC)
961	9602.75	-25.81	166.61	CHIST
971	9702.73	-32.01	167.11	CHIST
980	9803.12	0.00	167.36	PK (PC/PT)
983	9805.61	-25.83	167.60	CHIST
991	9900.25	-31.55	168.29	CHIST
1000	10000.00	0.00	168.46	PK (PC)
1001	10003.47	-25.77	168.75	CHIST


NORTH
LOT 28
117-0323
120.44
•7049 N. 86TH ST.
BM
HYD NW CORNER
N.86&W.HELENA
ELEV: 170.08
99+0
R 833.59
R 838.80
R 854.8
R 870.80
R 883.59
R=884.80
PI=13°13'29"
L=197.29
REM & CONST 31' VFCC&G
0.10' CROWN
CONST VTAC PAV'T
CRACK & SEAT
GRIND (SEE NOTE)
GRIND BUTT JT
ST.
PC
SAN CONST 20º R
CONST 20º R
PED RAMP II
TREE BORDER
LAWN
ROADLIFE 1997 3.0" ASPH CONC ON 8.0" CONC - CRACKED & SEATED - ADD'L BASE?
ROADLIFE 1969 2.5" ASPHALT BASE ON 8.0" ASPHALT BASE (STAGE CONST) - ADD'L BASE?
NOYE'S PARK
N. 86TH
100+00
99+00
•7001 N. 86TH ST.
STUART ELEMENTARY SCHOOL
293.60
117-0256-110
BLK.57, LOTS 6-19 BLK.56, AND VACATED W.HUSTIS ST., MENOMONEE RIVER HILLS NORTH)
MENTARY
SCHOOL

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.*


167.63
167.18
167.31
167.53
167.66
167.60

ESTIMATE / CERTIFICATE QUANTITIES

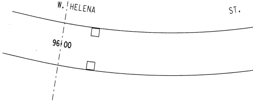
DESCRIPTION	UNIT	ASSESS.	X-ING			PLAN TOT.	PROJ.TOT.
MOBILIZATION	L.S.						
FINISHING ROADWAY	L.S.						
BARRICADING AND SIGNING	L.S.						
CUTTING	C.Y.						
ROADWAY CUTTING	C.Y.						
FILLING	C.Y.						
ROADWAY FILLING	C.Y.						
PAVEMENT REMOVAL	S.Y.						
BITUMINOUS SURFACE REMOVAL	S.Y.						
CURB &/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.						
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.						
CONCRETE BASE	S.Y.						
TACK COAT	GAL.						
BASE PREP. FOR ASPHALT SURFACE	L.S.						
V.T.ASPH.CONC.PAV'T.(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						

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

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

PLAN OF: W. HELENA ST.
N. 86TH ST. TO N. 90TH BL.
THIS SECTION: PT. E. OF W. TACOMA ST. TO N. 86TH ST.

DRAWN BY	S. BIEGANSKI	DATE: 1/2/14	PROJECT NO. ST211140118	
DESCRIPTIONS BY	S. BIEGANSKI	DATE: 1/2/14		
LEVELS BY	LUECKING	DATE: 11/2013	SCALE	1/4
LEVELS TRANSF. BY		DATE:	1"=10'	1
DESIGNED BY	M. MANHARDT	DATE: 2/10/14	OBSTRUCTIONS - SEE	
GRADES TRANSF. BY	G. LANGE	DATE: 3/14/14	REVISED:	
CHECKED BY	D. Ulatowski	DATE: 4/5/14	REVISED:	
APPROVED BY		DATE:	REVISED:	
FILE: V:\PWELIB\PAVING\29311_NOWALK.FIN				
PLOT DATE: 02-APR-2014				


W. HELENA ST.
96+00

EROSION CONTROL AND C.B.

	TYPE M	☒ - CBW	☐ - RESET
THIS SHEET	4	0	2

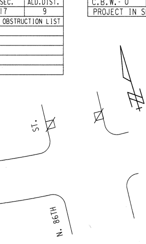
FILE NO.
259

SHEET 4 OF 4	
SEC.	ALD.DIST.
17	9

OBSTRUCTION LIST

THIS SHEET

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



TO \ DATE	6/17/14				
ESTIMATING	1				
HOLLOW WALKS	1				
PUBLIC HEARING	1				
CONSTRUCTION	7				
SEWER	1				
WATER	1				
STREET LIGHTING	1				
BLDG. SEWERS	1				
MEASURING	1				
FIELD	1				
DISTRICT FILE	2				
FORESTRY	1				
W.E. / G.O.					
WIS. GAS CO.	1				
TRANSIT SYSTEM					
CABLE TV					
UND. GRD. COND.	1				
WATER DIST.	1				
WEPCO N/S	1				
WEPCO S/S					
SEWER SERVICES					
UTILITY COOR.	Y				
Traffic Eng	1				
RM 506 J	15				
PLAN SIZE					

REQUISITION	PLAN
× - ABANDON	☒
0	NO WORK

W. HELENA ST. - N. 86TH ST. TO N. 90TH BL. (NO WALK) (4 OF 4)

PT. E. OF W. TACOMA ST. TO N. 86TH ST. ST211140118 18" X 98" 29311 #