Point #	Easting	Northing	Elev.	Desc
7	700.00	26.00	111.39	CHIS X
8	800.00	26.00	111.87	T
9	900.00	26.00	112.19	T
10	1000.00	26.00	112.42	PK
11	1100.00	26.00	113.63	T
12	1200.00	26.00	115.43	T
13	1300.00	26.00	117.01	T
14	1400.00	26.00	118.49	T
15	1500.00	26.00	119.65	T
16	1600.00	26.00	120.78	T
17	1700.00	26.00	121.90	T
18	1800.00	26.00	122.90	T
19	1900.00	26.00	123.70	T
20	2000.00	26.00	124.63	T
21	2100.00	26.00	124.05	T
22	2200.00	26.00	123.14	T
23	2300.00	26.00	122.34	T
24	2400.00	26.00	121.43	T
25	2500.00	26.00	120.91	T
26	2600.00	26.00	120.24	T
27	2700.00	26.00	119.66	T
28	2800.00	26.00	119.08	T
29	2900.00	26.00	118.55	T

Project Limits: N. 32nd St. - W. Lisbon Ave. to W. North Ave.		
Work Order No. ST211140129		Contractor: n/a
No. of Cores: 4		Locations Selected by:
Core Dia. (in): 4.75		Technician(s):
Pavement Width (ft):		Report Date:
Core No. 1		Distance from sidewalk curb - 8 ft.
Location: 1821 N 32nd St.	Sample Date: 12/3/13	Distance from sidewalk curb - East
Thickness (in.)	*Material Type*	*Layer Condition*
1.0	1/4 in. asphalt concrete	sound
1.2	3/4 in. asphalt concrete	sound
2.3	asphalt concrete, large aggregate	sound
1.5	asphalt concrete, large aggregate	sound
8	Brown Sand and Gravel with 2" crushed limestone	n/a
4+	Brown Silty Clay trace Sand and Gravel	n/a
Base Material: Brown Sand and Gravel with 2" crushed limestone		
Core Condition: sound		
Comment: Hand auger probe stopped at 12in. Below bottom of pavement		
Core No. 2		Distance from Sidewalk Curb - 7.5 ft
Location: 1935 N 32nd St.	Sample Date: 12/3/13	Direction from Sidewalk Curb - East
Thickness (in.)	*Material type*	*Layer Condition*
0.8	1/4 in. asphalt concrete	sound
1.3	3/4 in. asphalt concrete	sound
1.7	asphalt concrete, large aggregate	sound
1.5	asphalt concrete, large aggregate	sound
4 3/4	2-in. minus crushed limetstone	n/a
Base Material:	2-in. crushed limestone	
Core Condition	sound	
Comment	Hand auger probe refusal at 4 3/4 in. below bottom of pavement	

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.*
- *ANY TREES TO BE REMOVED AS PART OF THIS PROJECT WILL BE IN THE CONTRACT SPECIAL PROVISIONS.*
- *GRADE & SOD AREA BETWEEN THE CURB AND MAIN WALK UNLESS NOTED, OTHERWISE PLACE 1.5' WIDTH SOD IN LAWN AREAS DISTURBED BY CONSTRUCTION.*
- *IN AREAS OF GRINDING, GRIND TO OBTAIN 0.12' MINIMUM COVER AT CURB FLANGE, 0.17' MINIMUM AT BUTT JOINTS AND 0.21' MINIMUM ELSEWHERE.*

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

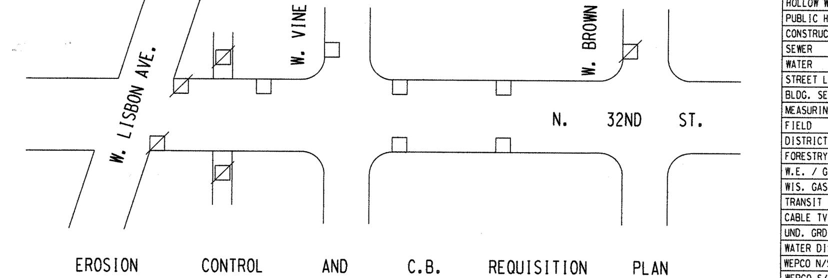
ESTIMATE / CERTIFICATE QUANTITIES

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.						
7" 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.						
3" CRUSHED STONE BASE	S.Y.						
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. 162	
PLAN OF: N. 32ND ST. (1800N, 3200W)				
W. LISBON AVE. TO W. NORTH AVE.				
THIS SECTION: W. LISBON AVE. TO 50' N. OF W. BROWN AVE.				
DRAWN BY	G. GUERRA	DATE: 11/7/13	PROJECT NO. ST211140129	SHEET 1 OF 3
DESCRIPTIONS BY	G. GUERRA	DATE: 11/7/13		
LEVELS BY	KLINKIEWICZ	DATE: 10/17/13	SCALE 1"=10'	1/4 SEC. 349 / ALD. DIST. 15
LEVELS TRANSF. BY	G. GUERRA	DATE: 03/14/14		
DESIGNED BY	S WALCZAK	DATE: 01/22/14	OBSTRUCTIONS - SEE OBSTRUCTION LIST	
GRADES TRANSF. BY	G. GUERRA	DATE: 03/14/14	REVISED:	
CHECKED BY	[signature]	DATE: 6-15-15	REVISED:	
APPROVED BY	[signature]	DATE: 6/30/15	REVISED:	
FILE: V:\PWELIB\PAVING\27279.FIN				
PLOT DATE: 02-JUN-2015				

THIS SHEET

STORM DRAINAGE UNITS		
C.B.W. - 0	RESET - 6	ABANDON - 0
PROJECT IN COMB AREA		



EROSION CONTROL AND C.B. REQUISITION PLAN

	TYPE M	☒ - CBW	☐ - RESET	X - ABANDON	
THIS SHEET	11	0	6	0	NO WORK
PROJECT TOTAL	25	0	19	0	

DATE / TO	2/7/15	3/2/16
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.		
WATER DIST.	1	
WEPCO N/S		
WEPCO S/S		
SEWER SERVICES		
UTILITY COOR.	1	
Traffic ENG.	1	
RM 506		6
PLAN SIZE	140'X17'	

N. 32ND ST. - W. LISBON AVE. TO W. NORTH AVE.
W. LISBON AVE. TO 50' N. OF W. BROWN ST
ST211140129
17" X 140"
(1 OF 3)

Core No. 3		Distance from Sidewalk Curb - 14ft
Location: 2037 N 32nd St.	Sample Date: 12/3/13	Direction from Sidewalk Curb - East
Thickness (in.)	Material type	Layer Condition
0.5	1/4 in. asphalt concrete	sound
0.8	3/4 in. asphalt concrete	sound
1.5	asphalt concrete, large aggregate	sound
1.2	1/4 in. asphalt concrete	sound
6 1/2+	Crushed Limestone	n/a
Base Material:	Crushed limestone	
Core Condition	sound	
Comment	Hand auger probe refusal at 5 1/2" below bottom of pavement	

Core No. 4		Distance Centerline - 0ft
Location: 2121 N 32nd St.	Sample Date: 12/3/13	Direction from Centerlin -
Thickness (in.)	Material type	Layer Condition
0.7	1/4 in. asphalt concrete	sound
1.0	3/4 in. asphalt concrete	sound
0.8	asphalt concrete, large aggregate	sound
12+	Light Brown Crushed Limestone	n/a
Base Material:	Light Brown Crushed limestone	
Core Condition	sound	
Comment	Hand auger probe stopped at 12" below bottom of pavement	

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. 163

PLAN OF: N. 32ND ST. (2000N, 3200W)

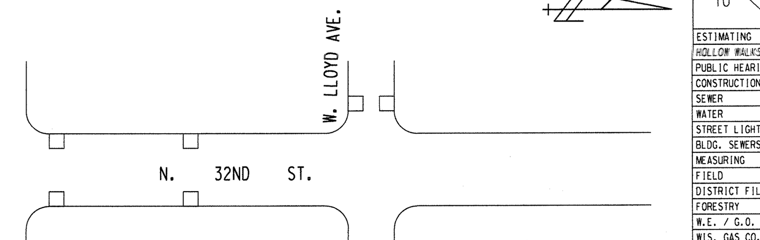
W. LISBON AVE. TO W. NORTH AVE.

THIS SECTION: W. LISBON AVE. TO 50' N. OF W. BROWN AVE.

DRAWN BY	G. GUERRA	DATE: 11/7/13	PROJECT NO.		
DESCRIPTIONS BY	G. GUERRA	DATE: 11/7/13	ST211140129	SHEET 2 OF 3	
LEVELS BY	KLINKIEWICZ	DATE: 10/17/13	SCALE	1/4 SEC.	ALD.DIST.
LEVELS TRANSF. BY	G. GUERRA	DATE: 03/14/14	1" = 10'	349	15
DESIGNED BY	WALCZAK	DATE: 1/22/14	OBSTRUCTIONS - SEE OBSTRUCTION LIST		
GRADES TRANSF. BY	G. GUERRA	DATE: 03/14/14	REVISED:		
CHECKED BY	[signature]	DATE: 6-15-15	REVISED:		
APPROVED BY	[signature]	DATE: 6/30/15	REVISED:		
FILE: V:\PWELIB\PAVING\27279.FIN					
PLOT DATE: 02-JUN-2015					

THIS SHEET

STORM DRAINAGE UNITS		
C.B.W.- 0	RESET- 6	ABANDON- 0
PROJECT IN COMB AREA		



EROSION CONTROL AND C.B. REQUISITION PLAN

	TYPE M	☒ - CBW	☐ - RESET	X - ABANDON	NO WORK
THIS SHEET	6	0	6	0	

TO \ DATE	7/7/15	3/7/16
ESTIMATING	1	
HOLLOW WALKS		
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.		
WATER DIST.	1	
WEPCO N/S		
WEPCO S/S		
SEWER SERVICES		
UTILITY COOR.	1	
Traffic ENG.	1	
RM 506		6
PLAN SIZE	17" X 140"	

N. 32ND ST. W. LISBON AVE. TO W. NORTH AVE. W. LISBON AVE. TO 50' N. OF W. BROWN ST. ST211140129 17" X 140" 52126 # (2 OF 3)

Core No. 5		Distance Centerline - 10ft
Location: 2218 N 32nd St.	Sample Date: 12/5/13	Direction from Centerlin - W
Thickness (in.)	*Material type*	*Layer Condition*
0.7	1/4 in. asphalt concrete	sound
1.2	3/4 in. asphalt concrete	sound
1.2	asphalt concrete, large aggregate	sound
1.0	asphalt concrete, primary aggregate	sound
4.2	3/4 in. asphalt concrete	sound
12+	Light Brown Crushed Limestone	n/a
Base Material:	Brown fine to medium Sand trace to little Gravel	
Core Condition	sound	
Comment	Hand auger probe stopped at 12" below bottom of pavement	

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. 164

PLAN OF: N. 32ND ST. (2200N, 3200W)

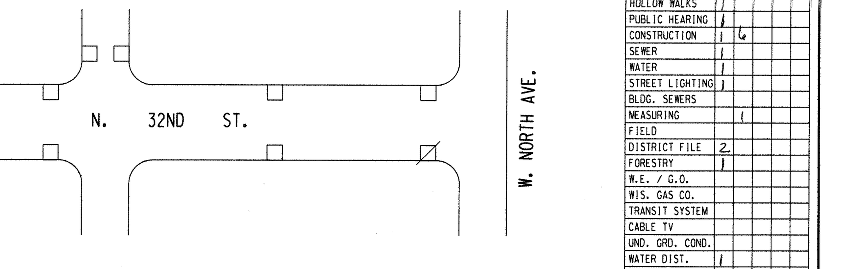
W. LISBON AVE. TO W. NORTH AVE.

THIS SECTION: +/- 600' S OF W. GARFIELD AVE. TO W. NORTH AVE

DRAWN BY	G. GUERRA	DATE: 11/7/13	PROJECT NO. ST211140129		SHEET 3 OF 3
DESCRIPTIONS BY	G. GUERRA	DATE: 11/7/13			
LEVELS BY	KLINKIEWICZ	DATE: 10/17/13	SCALE	1/4 SEC.	ALD.DIST.
LEVELS TRANSF. BY	G. GUERRA	DATE: 03/14/14	1" = 10'	349	15
DESIGNED BY	WALCZAK	DATE: 1/22/14	OBSTRUCTIONS - SEE OBSTRUCTION LIST		
GRADES TRANSF. BY	G. GUERRA	DATE: 03/14/14	REVISED:		
CHECKED BY	[signature]	DATE: 6-15-15	REVISED:		
APPROVED BY	[signature]	DATE: 6/30/15	REVISED:		
FILE: V:\PWELIB\PAVING\27279.FIN					
PLOT DATE: 02-JUN-2015					

THIS SHEET

STORM DRAINAGE UNITS		
C.B.W. - 0	RESET - 7	ABANDON - 0
PROJECT IN COMB AREA		



	EROSION	CONTROL	AND	C.B.	REQUISITION	PLAN
	TYPE M	☒ - CBW	☐ - RESET	X - ABANDON	⊘	
THIS SHEET	8	0	7	0	NO WORK	

TO \ DATE	7/7/15	3/17/16
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.		
WATER DIST.	1	
WEPCO N/S		
WEPCO S/S		
SEWER SERVICES		
UTILITY COOR.	1	
Traffic ENG.	1	
RM 506		6
PLAN SIZE	18"X129"	

N. 32ND ST. - W. GARFIELD AVE. TO W. NORTH AVE. - W. LISBON AVE. TO W. NORTH AVE.
ST211140129 12" X 129" (3 OF 3)