

ITEM NUMBER	ITEM	UNIT	TOTAL QUANTITY	CONSTRUCTION CODES		
				X071(0011)	J000(0004)	LOCAL
20100110	TREE REMOVAL (6 TO 15 UNITS DIAMETER)	UNIT	972	933	39	
20100210	TREE REMOVAL (OVER 15 UNITS DIAMETER)	UNIT	420	420		
20200100	EARTH EXCAVATION	CU YD	3,512	657	2,855	
20200200	ROCK EXCAVATION	CU YD	12			12
20300100	CHANNEL EXCAVATION	CU YD	1,030	1,030		
20300200	ROCK EXCAVATION IN CHANNEL	CU YD	3	3		
20400800	FURNISHED EXCAVATION	CU YD	7,314	7,314		
20800150	TRENCH BACKFILL	CU YD	898	133	95	670
(1) 25000100	SEEDING, CLASS 1	ACRE	1.0	0.1	0.9	
(1) 25000300	SEEDING, CLASS 3	ACRE	0.75	0.65	0.1	
(1) 25000312	SEEDING, CLASS 4A	ACRE	0.75	0.75		
(1) 25000400	NITROGEN FERTILIZER NUTRIENT	POUND	200	105	95	
(1) 25000500	PHOSPHOROUS FERTILIZER NUTRIENT	POUND	200	105	95	
(1) 25000600	POTASSIUM FERTILIZER NUTRIENT	POUND	200	105	95	
(1) 25000700	AGRICULTURAL GROUND LIMESTONE	TON	4.4	2.4	2.0	
(1) 25100105	MULCH, METHOD 1	ACRE	2.3	1.2	1.1	
(1) 25100115	MULCH, METHOD 2	ACRE	2.3	1.2	1.1	
28000250	TEMPORARY EROSION CONTROL SEEDING	POUND	220	120	100	
* 28000305	TEMPORARY DITCH CHECKS	FOOT	540	520	20	
28000400	PERIMETER EROSION BARRIER	FOOT	1,595	840	755	
28000510	INLET FILTERS	EACH	12	4	8	
28100105	STONE RIPRAP, CLASS A3	SQ YD	272	90		182
28100113	STONE RIPRAP, CLASS A7	SQ YD	1,827	1,827		
28200200	FILTER FABRIC	SQ YD	2,318	2,318		
31100300	SUB-BASE GRANULAR MATERIAL, TYPE A 4"	SQ YD	5,549	2,822	2,727	
35100700	AGGREGATE BASE COURSE, TYPE A 8"	SQ YD	2,377	398	85	1,894
35600704	HOT-MIX ASPHALT BASE COURSE WIDENING, 7"	SQ YD	62	29.5	32.5	
40200700	AGGREGATE SURFACE COURSE, TYPE A 8"	SQ YD	124	56	68	
40201000	AGGREGATE FOR TEMPORARY ACCESS	TON	229	30	199	

ITEM NUMBER	ITEM	UNIT	TOTAL QUANTITY	CONSTRUCTION CODES		
				X071(0011)	J000(0004)	LOCAL
40600200	BITUMINOUS MATERIALS (PRIME COAT)	TON	4.5	0.1	0.5	3.9
40600982	HOT-MIX ASPHALT SURFACE REMOVAL - BUTT JOINT	SQ YD	160	76.7	83.3	
40603080	HOT-MIX ASPHALT BINDER COURSE, IL-19.0, N50	TON	370		21	349
40603510	POLYMERIZED HOT-MIX ASPHALT SURFACE COURSE, MIX "C", N50	TON	231	12	46	173
42000201	PORTLAND CEMENT CONCRETE PAVEMENT 7" (JOINTED)	SQ YD	3,887	2,224	1,663	
42001200	PAVEMENT FABRIC	SQ YD	323	250	73	
42001300	PROTECTIVE COAT	SQ YD	554	554		
42001420	BRIDGE APPROACH PAVEMENT CONNECTOR (PCC)	SQ YD	177	177		
42200100	PORTLAND CEMENT CONCRETE RAILROAD CROSSING	SQ YD	146	73	73	
42300200	PORTLAND CEMENT CONCRETE DRIVEWAY PAVEMENT, 6 INCH	SQ YD	116	24	92	
42300300	PORTLAND CEMENT CONCRETE DRIVEWAY PAVEMENT, 7 INCH	SQ YD	244	104	140	
42400100	PORTLAND CEMENT CONCRETE SIDEWALK 4 INCH	SQ FT	180	180		
44000100	PAVEMENT REMOVAL	SQ YD	3,599	2,297	1,302	
44000200	DRIVEWAY PAVEMENT REMOVAL	SQ YD	2,393		170	2223
44000500	COMBINATION CURB AND GUTTER REMOVAL	FOOT	537	356		181
* 50100100	REMOVAL OF EXISTING STRUCTURES	EACH	1	1		
* 50104400	CONCRETE HEADWALL REMOVAL	EACH	2		2	
50200100	STRUCTURE EXCAVATION	CU YD	1,061	91		970
50300225	CONCRETE STRUCTURES	CU YD	192.4	57.4		135.0
50300255	CONCRETE SUPERSTRUCTURE	CU YD	283.8	283.8		
50300260	BRIDGE DECK GROOVING	SQ YD	424	424		
* 50300280	CONCRETE ENCASEMENT	CU YD	14.6	14.6		
50500105	FURNISHING AND ERECTING STRUCTURAL STEEL	L SUM	1	1		
50500505	STUD SHEAR CONNECTORS	EACH	1,990	1,990		
50800105	REINFORCEMENT BARS	POUND	17,880	970		16,910
50800205	REINFORCEMENT BARS, EPOXY COATED	POUND	69,020	69,020		
50800515	BAR SPLICERS	EACH	66	66		
(1) 50901750	PARAPET RAILING	FOOT	296	296		
51201600	FURNISHING STEEL PILES HP12X53	FOOT	300	300		

* DENOTES SPECIAL PROVISION
(1) DENOTES SPECIALTY ITEM

CONSTRUCTION TYPE CODE: X071(0011) - HIGHWAY BRIDGE PROGRAM (STA. 45+50.00 TO STA. 55+30.00)
CONSTRUCTION TYPE CODE: J000(0004) - SURFACE TRANSPORTATION PROGRAM - URBAN (STA. 39+90.00 TO STA. 45+50.00)
LOCAL - CITY OF QUINCY (MULTI-USE PATH RETAINING WALLS AND KNAPHEIDE PARKING LOT)

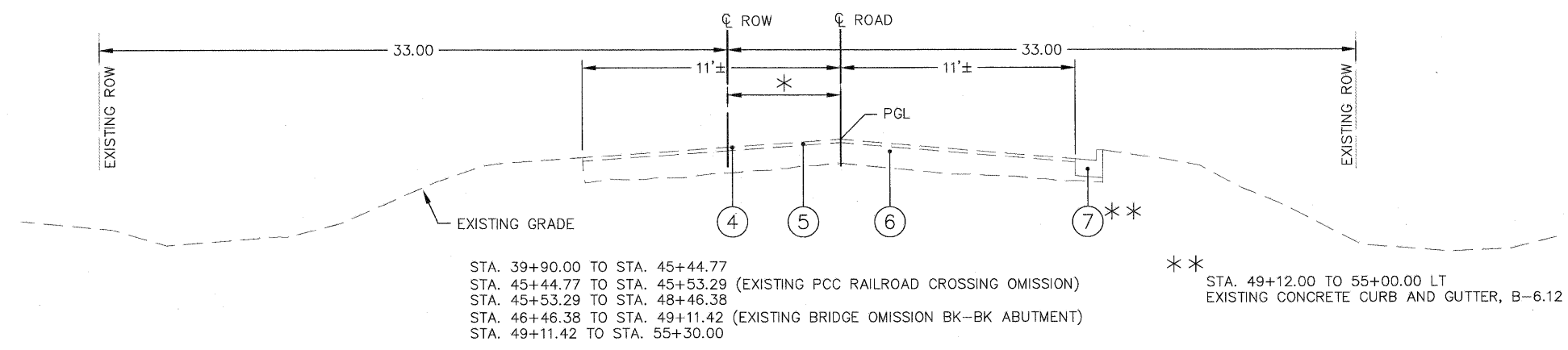


REVISIONS	
NAME	DATE

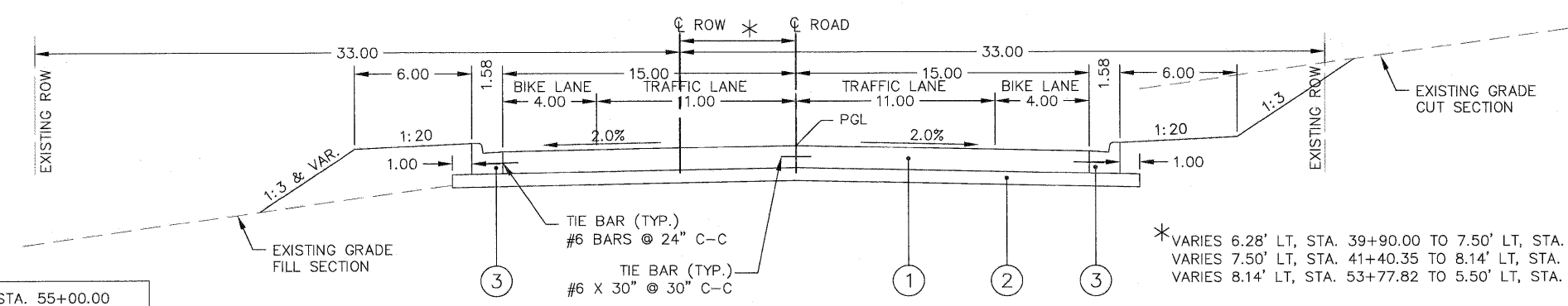
CITY OF QUINCY, ILLINOIS
N. 5TH STREET BRIDGE
SUMMARY OF QUANTITIES
SHEET 1 OF 3

SCALE: VERT. _____
HORIZ. _____
DATE _____ DRAWN BY: DBS
CHECKED BY: AMW

RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
N 5TH ST	03-00289-00-BR	ADAMS	90	6
STA.		TO STA.		
CONTRACT NO. 93542				



EXISTING TYPICAL SECTION
(NO SCALE)



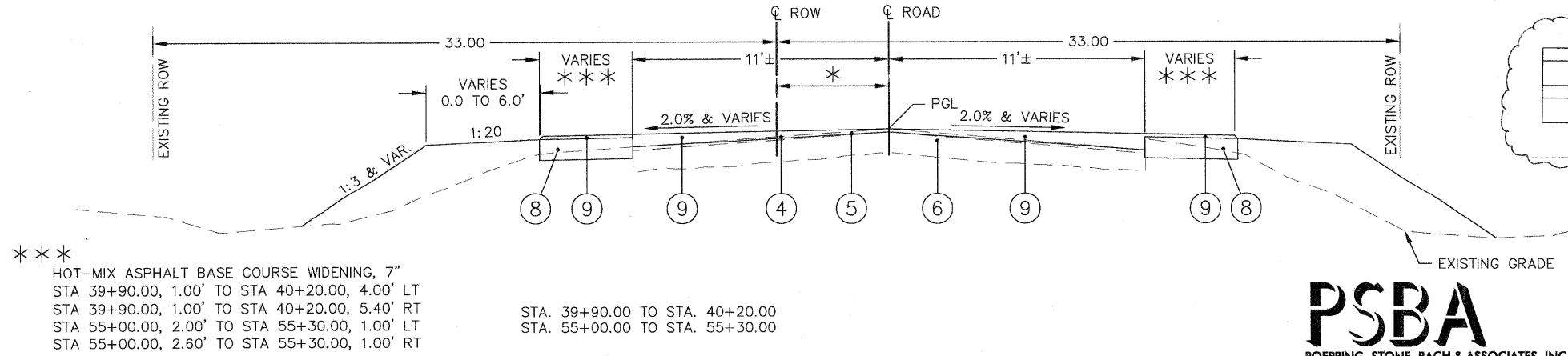
5TH ST. - STA. 40+20.00 TO STA. 55+00.00
 STRUCTURAL DESIGN TRAFFIC: YEAR 2021
 YEAR 2000 ADT = 725
 YEAR 2021 ADT = 1,099
 PV = 88% SU = 7% MU = 5%
 PV = 967 SU = 707 MU = 55
 DESIGN PERIOD: 20 YEARS
 ROAD/STREET CLASSIFICATION: CLASS III
 SUBGRADE SUPPORT: SSR = 6.5
 80,000 POUND LOAD LIMIT
 TRAFFIC FACTOR: TF = 0.41 CALCULATED
 TRAFFIC FACTOR: TF = 0.50 MINIMUM REQUIRED
 PROPOSED PAVEMENT:
 7.00" P.C.C. PAVEMENT - NON-REINFORCED
 12.50' TRANSVERSE DOWELLED JOINT SPACING
 4.00" SUBBASE GRANULAR MATERIAL, TYPE A

STA. 40+20.00 TO STA. 45+19.01
 STA. 45+19.01 TO STA. 45+44.77 (RAILROAD GRADE CROSSING - STD 420501)
 STA. 45+44.77 TO STA. 45+53.29 (CONC/RUBBER RAILROAD CROSSING OMISSION)
 STA. 45+53.29 TO STA. 45+79.06 (RAILROAD GRADE CROSSING - STD 420501)
 STA. 45+79.06 TO STA. 46+86.50
 STA. 46+86.50 TO STA. 47+60.00 (BRIDGE APPROACH CONNECTOR - STD 420401)
 STA. 47+60.00 TO STA. 48+16.50 (BRIDGE APPROACH PAVEMENT)
 STA. 48+16.50 TO STA. 49+43.50 (BRIDGE OMISSION BK-BK ABUTMENT)
 STA. 49+43.50 TO STA. 49+73.50 (BRIDGE APPROACH PAVEMENT)
 STA. 49+73.50 TO STA. 50+00.00 (BRIDGE APPROACH CONNECTOR - STD 420401)
 STA. 50+00.00 TO STA. 54+16.00
 STA. 54+16.00 TO STA. 54+80.00 (TAPER PAVEMENT WIDTH, 30' TO 22' @ 16:1)
 STA. 54+80.00 TO STA. 55+00.00

1. PORTLAND CEMENT CONCRETE PAVEMENT, 7" (DOWELED & JOINTED, MAX. 12.5-FT)
 2. SUB-BASE GRANULAR MATERIAL, TYPE A 4"
 3. COMBINATION CONCRETE CURB AND GUTTER, TYPE B-6.12
 4. EXISTING HOT-MIX ASPHALT SURFACE, 1.5" & VARIES
 5. EXISTING SEAL COAT, DEPTH VARIES
 6. EXISTING AGGREGATE BASE COURSE, DEPTH VARIES
 7. EXISTING CONCRETE CURB AND GUTTER, TYPE B-6.12
 8. HOT-MIX ASPHALT BASE COURSE WIDENING, 7"
 9. POLY HOT-MIX ASPHALT SURFACE COURSE, MIX "C", N50, 1.5" & VARIES
- NOTE: EXTEND SUB-BASE GRANULAR MATERIAL, TYPE A UNDER CURB A MINIMUM 4.0" THICKNESS.

HOT-MIX ASPHALT MIXTURE REQUIREMENTS			
ITEM	AGGREGATE COMPOSITION	ASPHALT GRADE	DESIGN AIR VOIDS
HMA BINDER CSE	IL - 19.0	PG 64-22	4.0% @ N50
HMA SURFACE CSE	IL - 9.5 or 12.5	SBS PG 64-28	4.0% @ N50
Mix "C"			

> Hot-Mix Asphalt quantities based on 112 lb./sq.yd./inch



PROPOSED TYPICAL SECTION
(NO SCALE)

PSBA
 POEPPING, STONE, BACH & ASSOCIATES, INC.
 ARCHITECTS ENGINEERS PLANNERS SURVEYORS
 100 S 54TH ST, P.O. BOX 709 • QUINCY, IL 62306
 WITH OFFICES IN IKSOKUK, IOWA & HANNIBAL, MISSOURI
 www.psba.com • PHONE 877-223-4605

REVISIONS	
NAME	DATE
Revised	2-28-11

CITY OF QUINCY, ILLINOIS
 N. 5TH STREET BRIDGE
 TYPICAL SECTIONS

SCALE: VERT. _____
 HORIZ. _____
 DATE _____
 DRAWN BY: DBS
 CHECKED BY: AMW
 5th ST - TYPICAL SECTIONS

RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
N 5TH ST	03-00289-00-BR	ADAMS	90	8

STA. TO STA.
CONTRACT NO. **93542**

LOCATION	CODE NO.		PCC PVMT 7" JOINTED SY YD
	42000201	42000201	
	LENGTH FOOT	AVE. WIDTH FOOT	
40+20.00 TO 45+19.01	499.01	30.00	1,663.4
45+79.06 TO 47+60.00	180.94	30.00	603.1
50+00.00 TO 54+16.00	416.00	30.00	1,386.7
54+16.00 TO 54+80.00	64.00	26.00	184.9
54+80.00 TO 55+00.00	20.00	22.00	48.9
TOTAL USE			3,887.0
			3,887

LOCATION	CODE NO.		CC&G B-6.12 FOOT	X6064200 CC&G B-6.12 SP FOOT
	60603800	60603800		
5TH STREET				
STA 40+20.00 - 41+51.77, LT			131.8	
STA 42+15.02 - 45+42.50, LT			327.4	
STA 45+66.00 - 46+86.50, LT			120.5	
STA 46+86.50 - 47+90.80, LT			104.3	
BRIDGE OMISSION				
STA 49+78.85 - 50+73.50, LT			94.7	
STA 50+73.50 - 52+58.49, LT			185.0	
STA 53+58.67 - 55+00.00, LT			141.3	
BRIDGE OMISSION				
STA 40+20.00 - 45+39.00, RT			519.0	
STA 45+62.00 - 46+86.50, RT			124.5	
STA 46+86.50 - 47+82.21, RT			95.7	
BRIDGE OMISSION				
STA 49+70.27 - 50+73.50, RT			103.2	
STA 50+73.50 - 54+80.00, RT			406.5	
STA 54+80.00 - 55+00.00, RT				20.0
GARDNER PARK RD				
41+51.8, 16.0 - 41+80.0, 38.3 LT			38.8	
41+80.0, 38.3 - 41+92.8, 58.4 LT			24.2	
42+15.0, 16.0 - 42+06.4, 41.0 LT			34.7	
PARKER HEIGHTS RD				
52+58.5, 16.0 - 52+86.5, 37.7 LT			38.2	
53+58.7, 16.0 - 53+30.7, 37.5 LT			38.0	
KNAPHEIDE ENTRANCE & P. LOT				
49+96.9, 16.0 - 50+07.4, 77.2 RT			66.4	
50+38.9, 16.0 - 51+08.8, 16.0 RT			117.1	
53+16.6, 46.0 - 53+25.5, 16.0 RT			41.1	
53+70.8, 25.3 - 53+83.1, 16.0 RT			34.7	
54+44.5, 26.4 - 54+50.0, 13.8 RT			18.9	
TOTAL USE			2,806	20.0
			2,806	20

LOCATION	CODE NO.		SUB-BASE GRAN MATL, 4" SQ YD
	31100300	31100300	
	WIDTH FOOT		
5TH STREET			
STA 40+20.00 TO STA 45+19.01	35.16		1,949.5
STA 45+19.01 TO STA 45+40.77	35.16		85.0
RR X-ING OMISSION			
STA 45+57.29 TO STA 45+79.06	35.16		85.0
STA 45+79.06 TO STA 46+83.50	35.16		706.9
STA 46+86.50 TO STA 47+60.00	35.16		91.8
BRIDGE OMISSION			
STA 49+76.50 TO STA 50+00.00	35.16		91.8
STA 50+00.00 TO STA 54+16.00	35.16		1,625.2
STA 54+16.00 TO STA 54+80.00	35.16		221.6
FROM ENTRANCE SCHEDULE			692.2
TOTAL USE			5,549.0
			5,549

LOCATION	CODE NO.		HMA BASE CSE WIDEN, 7" SQ YD
	35600704	35600704	
	WIDTH FOOT		
5TH STREET			
STA 39+90.00 - 40+20.00, LT	1.0 - 4.0		8.3
STA 39+90.00 - 40+20.00, RT	1.0 - 5.4		10.7
STA 55+00.00 - 55+30.00, LT	2.0 - 1.0		5.0
STA 55+00.00 - 55+30.00, RT	2.6 - 1.0		6.0
GARDNER PARK RD			
STA 11+00.00 - 11+15.00, LT	2.0 - 1.0		2.5
STA 11+00.00 - 11+15.00, RT	2.0 - 1.0		2.5
4' RR APPR. PAVT. TRANS.	30		27.0
TOTAL USE			62.0
			62

TRANSITION FROM EXISTING PAVEMENT WIDTH TO PROPOSED WIDTH

LOCATION	CODE NO.		PCC 4IN SIDEWALK SQ FT	60600605 CONC CURB TYPE B FOOT
	42400100	42400100		
	WIDTH FOOT	LENGTH FOOT		
5TH STREET				
* STA 47+87.83 - 47+96.83 RT 16.6'	5	9	45	14
STA 47+96.17 - 48+05.17 LT 16.6'	5	9	45	14
STA 49+54.83 - 49+63.83 RT 16.6'	5	9	45	14
* STA 49+63.17 - 49+72.17 LT 16.6'	5	9	45	14
TOTAL USE			180	56
			180	56

* TO BE RELOCATED TO END OF BARRIER TERMINALS

LOCATION	CODE NO.		HMA SURF REM BUTT JT SQ YD
	40600982	40600982	
	WIDTH FOOT		
5TH STREET			
STA 39+90.00 - 40+20.00	25.0		83.3
STA 55+00.00 - 55+30.00	23.0		76.7
TOTAL USE			160.0
			160

LOCATION	CODE NO.		RR CROSSING SQ YD
	42001200	42200100	
	PVMT FABRIC SQ YD	PCC RR CROSSING SQ YD	
5TH STREET			
STA 45+19.03 - 45+40.81	72.6		72.6
STA 45+57.00 - 45+79.06	72.6		72.6
TOTAL USE	145.2		145.2
	146		146

STANDARD 420501
PCC PAVEMENT ADJACENT TO RAILROAD CROSSING

LOCATION	CODE NO.		BR APPR PVT CON (PCC) SQ YD
	42001200	42001420	
	PVMT FABRIC SQ YD	BR APPR PVT CON (PCC) SQ YD	
5TH STREET			
STA 47+60.00 - 47+86.50	88.3		88.3
STA 49+73.50 - 50+00.00	88.3		88.3
TOTAL USE	176.6		176.6
	177		177

STANDARD 420401
BRIDGE APPROACH PAVEMENT CONNECTOR

LOCATION	CODE NO.		PERM. EROS. BARRIER FOOT
	28000400	28000400	
5TH STREET			
40+00.00 - 44+61.70, LT			465
42+15.00 - 45+01.75, RT			290
45+92.80 - 48+27.00, LT			240
45+85.00 - 48+95.00, RT			345
48+70.00 - 49+91.54, LT			130
49+30.00 - 52+90.00, RT			365
TOTAL USE			1,595

ENGINEER MAY ADJUST LOCATION AND LENGTH TO FIT FIELD CONDITIONS

LOCATION	CODE NO.		HMA SURF CSE "C" N50 TON
	40603510	40603510	
	THICKNESS INCH		
5TH STREET			
STA 39+90.00 - 40+20.00	2.25		12
STA 55+00.00 - 55+30.00	2.00		10
4' RR APPR. PAVT. TRANS.	2.00		3
ENTRANCE IMPROVEMENT SCHEDULE			206
TOTAL USE			231
			231

STA. 39+90.0 TO 40+20.0 - THICKNESS VARIES 1.5" TO 4.0"
STA. 55+00.0 TO 55+30.0 - THICKNESS VARIES 1.5" TO 3.0"

LOCATION	CODE NO.		BIT MATL (PR CT) TON
	40600200	40600200	
	SURFACE AREA SQ YD		
5TH STREET			
39+90.00 - 40+20.00, BC WIDEN	19.0		0.0270
39+90.00 - 40+20.00, SURF CSE	95.0		0.0361
45+40.8 - 45+44.8, SURF CSE	14.0		0.0200
45+53.3 - 45+57.3, SURF CSE	14.0		0.0200
55+00.00 - 55+30.00, BC WIDEN	11.0		0.0157
55+00.00 - 55+30.00, SURF CSE	80.0		0.0304
ENTRANCE IMPROVEMENT SCHEDULE			4.2883
TOTAL USE			4.4375
			4.5

0.000380 TON/SY (PAVEMENT)
0.001425 TON/SY (AGGREGATE)



REVISIONS	
NAME	DATE
Δ Revised	2-28-11

CITY OF QUINCY, ILLINOIS
N. 5TH STREET BRIDGE
SCHEDULE OF QUANTITIES
SHEET 2 OF 5

SCALE: VERT. HORIZ. DATE
DRAWN BY: DBS
CHECKED BY: AMW