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REINFORCED CONCRETE PIPE ELBOW REINFORCED CONCRETE PIPE TEE

542606 CATCH BASIN TYPE C

MANHOLE TYPE A, 72" DIAMETER CAST IRON STEPS STEEL PLATE BEAM GUARDRAIL FRAME AND LIDS, TYPE 1 GRATE TYPE 8

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CHAIN LINK FENCE RIGHT OF WAY MARKERS OFF-ROAD OPERATIONS, 2L, 2W, 15' TO 24' FROM PAVEMENT EDGE

LICENSE EXPIRES 11-30-2010

URBAN LANE CLOSURE, 2L, 2W, UNDIVIDED

TRAFFIC CONTROL DEVICES

TEMPORARY CONCRETE BARRIER TYPICAL PAVEMENT MARKINGS

Jed M. Monthey 1/28/10
ILLINOIS REGISTERED STRUCTURAL ENGINEER NO. 081-005450



49591

REGISTERED

STATE OF ILLINOIS **DEPARTMENT OF NATURAL RESOURCES** OFFICE OF WATER RESOURCES

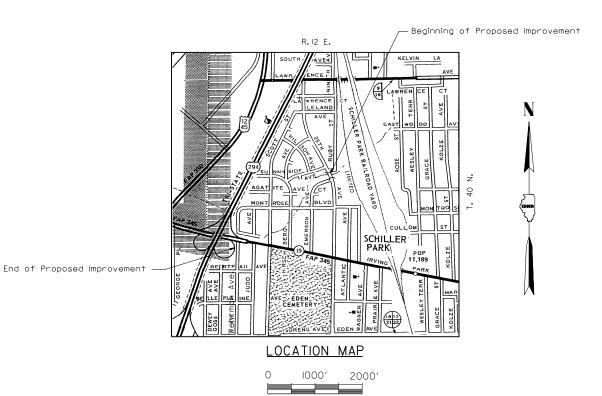
CRYSTAL CREEK FLOOD CONTROL PROJECT PHASE IIA

VILLAGES OF FRANKLIN PARK AND SCHILLER PARK

COOK COUNTY

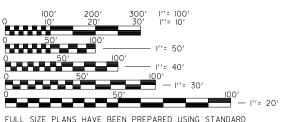
FR-413

2010





REGIONAL MAP



ENGINEERING SCALES, REDUCED SIZED PLANS WILL NOT CONFORM TO STANDARD SCALES, IN MAKING MEASUREMENTS ON REDUCED PLANS, THE ABOVE SCALES MAY BE USED.

SUBMITTED BY William J. Shuker DATE 1/28/10 MANAGER, DIVISION OF PROJECT IMPLEMENTATION APPROVED BY __ DATE <u>1/28/2010</u>

/1\ Revised 2/10/2010, RLP

CODE NO.	SUMMARY OF QUANTITIES PAY ITEM	UNIT	OUA STATE	NTITY LOCAL**
20100110	TREE REMOVAL (6 TO 15 UNITS DIAMETER)	UNIT	556	LUCAL***
20100210	TREE REMOVAL (OVER 15 UNITS DIAMETER)	UNIT	846	
20101400	NITROGEN FERTILIZER NUTRIENT	POUND	62	
20101500	PHOSPHORUS FERTILIZER NUTRIENT	POUND	62	
20101600	POTASSIUM FERTILIZER NUTRIENT	POUND	62	
20300100	CHANNEL EXCAVATION	CU YD	2,339	
21101505	TOPSOIL EXCAVATION AND PLACEMENT	CU YD	527	
25000310	SEEDING, CLASS 4	ACRE	0.55	
25000340	SEEDING, CLASS 6A	ACRE	0.13	
25100125	MULCH, METHOD 3	ACRE	0.68	
28000250	TEMPORARY EROSION CONTROL SEEDING	POUND	149	Λ
28000300	TEMPORARY DITCH CHECKS	EACH	11	
28000400	PERIMETER EROSION BARRIER	FOOT	3, 471	
28100107	STONE RIPRAP, CLASS A4	SO YD	867	
28100807	STONE DUMPED RIPRAP, CLASS A4	TON	324	
28200200	FILTER FABRIC	SQ YD	867	
35100500	AGGREGATE BASE COURSE, TYPE A 6"	SQ YD	14	
35501316	HOT-MIX ASPHALT BASE COURSE, 8"	SQ YD	331	
40300100	BITUMINOUS MATERIALS (PRIME COAT)	GALLON	25	
10603080	HOT-MIX ASPHALT BINDER COURSE, IL 190; N50	TON	128	
	HOT-MIX ASPHALT SURFACE COURSE, MIX "D", N50	TON	56	
	PORTLAND CEMENT CONCRETE SIDEWALK 6 INCH	SQ FT	1822	377
	PAVEMENT REMOVAL	SQ YD	556	
48101200	AGGREGATE SHOULDERS, TYPE B	TON	10	
	COMBINATION CONCRETE CURB AND GUTTER REMOVAL AND REPLACEMENT	FOOT	223	
	REMOVAL OF EXISTING STRUCTURES NO. 1	EACH	1	
	REMOVAL OF EXISTING STRUCTURES NO. 2	EACH	1	
	REMOVAL OF EXISTING STRUCTURES NO. 3	EACH	1	
	REMOVAL OF EXISTING STRUCTURES NO. 4	EACH	1	
	REMOVAL OF EXISTING STRUCTURES NO. 5	EACH	1	
	REMOVAL OF EXISTING STRUCTURES NO. 6	EACH	1	
	REMOVAL OF EXISTING STRUCTURES NO. 7	EACH	1	
	REMOVAL OF EXISTING STRUCTURES NO. 8	EACH	1	
*50101000			1	
		EACH	177	
	PIPE CULVERT REMOVAL	FOOT		
	STRUCTURE EXCAVATION	CU YD	4,543	05.5
	CONCRETE STRUCTURES	CU YD	48.8	25.8
	PRECAST PRESTRESSED CONCRETE DECK BEAMS (11" DEPTH)	SQ FT	294	299
	EXPANSION BOLTS 3/4 INCH	EACH	99	
50800105	REINFORCEMENT BARS	POUND	24,390	
	Note: Structure No. 2, 5 and 6 to be paid for by Locals.		/\ P.	vised 2/10

CODE NO.	SUMMARY OF QUANTITIES PAY ITEM	UNIT	STATE QUA	NTITY LOCAL*
50800205	REINFORCEMENT BARS, EPOXY COATED	POUND	27,920	4620
50800515	BAR SPLICERS	EACH	38	
50901720	BICYCLE RAILING	FOOT	180	
51100300	SLOPE WALL 6"	SQ YD	92	
51500100	NAME PLATES	EACH	9	3
54003000	CONCRETE BOX CULVERTS	CU YD	285.5	
54021004	PRECAST CONCRETE BOX CULVERT 10' X 4' (M273)	FOOT	50.5	
54021005	PRECAST CONCRETE BOX CULVERT 10' X 5' (M273)	FOOT	229	
54248510	CONCRETE COLLAR	CU YD	5.7	
550A0050	STORM SEWERS, CLASS A, TYPE 1 12"	FOOT	6	
550A0450	STORM SEWERS, CLASS A, TYPE 2 36"	FOOT	9	
550B0340	STORM SEWERS, CLASS B, TYPE 2 12"	FOOT	1	
55100200	STORM SEWER REMOVAL 6"	FOOT	10	
55100300	STORM SEWER REMOVAL 8"	FOOT	17	
55100400	STORM SEWER REMOVAL 10"	FOOT	9	
55100700	STORM SEWER REMOVAL 15"	FOOT	7	
55101200	STORM SEWER REMOVAL 24"	FOOT	7	
55101600	STORM SEWER REMOVAL 36"	F00T	16	
60207605	CATCH BASINS, TYPE C, TYPE 8 GRATE	EACH	1	
63000000	STEEL PLATE BEAM GUARDRAIL, TYPE A	FOOT	25	
63000025	STEEL PLATE BEAM GUARDRAIL, ATTACHED TO STRUCTURES	FOOT	100	
66400305	CHAIN LINK FENCE, 6'	FOOT	2927	141
*66410400	CHAIN LINK FENCE TO BE REMOVED AND RE-ERECTED	FOOT	740	1375
*67000500	ENGINEER'S FIELD OFFICE, TYPE B	CAL MO	20	Λ
67100100	MOBILIZATION	L SUM	1	
*70101800	TRAFFIC CONTROL AND PROTECTION, (SPECIAL)	L SUM	1	
70400100	TEMPORARY CONCRETE BARRIER	FOOT	165	
70400200	RELOCATE TEMPORARY CONCRETE BARRIER	FOOT	140	
*X0322923	SEGMENTAL CONCRETE BLOCK WALL	SQ FT	28,659	
*X0323384	WOOD INFORMATION SIGNS	SQ FT	30	
*x0323988	TEMPORARY SOIL RETENTION SYSTEM	SQ FT	118	
*Z0007601	BUILDING REMOVAL NO. 1	L SUM	1	
*Z0030240	IMPACT ATTENUATORS, TEMPORARY (NON-REDIRECTIVE), TEST LEVEL 2	EACH	1	
*Z0030340	IMPACT ATTENUATORS, RELOCATE (NON-REDIRECTIVE), TEST LEVEL 2	EACH	1	
*	CONSTRUCTION STAKING	L SUM	1	
*	SEEDING, MULCHING, AND FERTILIZING	ACRE	0.81	
*	TEMPORARY COFFERDAM SYSTEM	L SUM	1	
*	STONE FACE FINISH	SQ FT	270	270

Ti	REE RE	MOVAL SCH	EDULE
		TREE REMOVAL	TREE REMOVAL
STATION	OFFSET	(6 TO 15 UNITS DIAMETER) (UNIT)	(OVER 15 UNITS DIAMETER) (UNIT)
0+35	16' RT	12	(ONTT)
0+57	19' RT	14	
0+67	20' LT	10	
0+68	10' RT	6	
0+72	20' LT		
0+72		10	
	10' RT	8	20
0+73	20' RT		20
0+75	17' LT	0	24
0+76	16' RT	8	
0+82	18' LT		24
1+08	12' LT		18
1+18	12' LT	15	
1+18	10' LT	15	
1+26	8' LT	15	
2+54	6' RT	8	
2+61	4' RT		16
2+62	9' RT	10	
2+67	4' RT	11	
2+75	5' RT	10	
2+76	14' LT	6	
2+86	7' RT	12	
3+61	10' LT	1-	48
3+79	10 LT		56
	9' LT		
4+03		15	18
4+13	13' LT	15	
4+19	16' RT	12	
4+20	4' RT		25
4+61	3' RT		22
4+93	17' LT		22
4+97	16′ RT	12	
5+10	13' RT		24
5+24	9' RT	11	
5+42	2' RT		36
5+54	7' LT	8	
5+77	14' RT	10	
5+88	5' RT	8	
5+96	15' RT	7	
5+99	13' LT	· '	18
6+20	11' RT	10	10
	6' RT	10 8	
6+35		8	40
6+44	11' RT		16
6+71	11' RT		36
7+52	9' RT		16
7+61	6' RT	14	
9+91	18′ RT	15	
10+22	13' RT	10	
10+38	14' LT		25
10+54	14' RT	6	
10+99	1' RT		20
11+16	7' LT		72
11+60	7' LT		44
11+97	17' LT		50
14 + 10	9' LT		22
	7' LT		22
14+28		6	
14+39	5' LT	12	2.0
15+01	7' RT		22
15+02	11' LT	12	0.1
15+88	13' RT		24
<i>15+95</i>	8' LT	12	
16 + 05	5′ LT		20
<i>16 + 06</i>	10' RT	10	
16+07	6' LT	7	
16+22	4' LT	7	
16+36	4' LT	,	20
	-	Ω	20
16+41	11' RT	8	10
16+46	4' LT	_	16
16 + 72	9' RT	8	
17+17	9' LT	6	
17+20	9′ LT	7	
17+22	9' LT	8	

TREE	REMOV	/AL SCHEDU	LE (cont'd.)
STATION	OFFSET	TREE REMOVAL (6 TO 15 UNITS DIAMETER) (UNIT)	TREE REMOVA (OVER 15 UNIT. DIAMETER) (UNIT)
17+33	5′ RT	6	
17+36	7' RT	8	
17+37	6' LT	8	
17+47	5' RT	8	
17+57	7' LT	12	
17+69	3' RT		36
17+78	8' LT	11	
17+81	4' LT		18
18+13	1' LT	14	
18+37	5′ LT	10	
18+47	1' LT	12	
18 + 70	11' LT		18
18+77	11' RT	12	
19+14	10' RT	8	
19+24	13' RT	8	
19+30	13' LT	6	
19+46	14' LT	6	
28+26	10' LT	8	
	TOTAL	556	846

SEEDING & EROSION CONTROL SCHEDULE							
LOCATION	SEEDING MULCHING & FERTIL.	SEEDING CLASS 4 W/ MULCH METHOD 3	SEEDING CLASS 6A W/ MULCH METHOD 3	PERIMETER EROSION BARRIER		TEMPORARY DITCH CHECKS	
	ACRE	<i>ACRE</i>	ACRE	F00	T	LOCATION	EACH
	LT & RT	LT & RT	LT & RT	LT	RT	0+05	1
0+00 - 1+62	0.04	0.08	_	130	131	3+05	1
2+10 - 8+10	0.24	0.17	_	555	577	6+05	1
9+50 - 12+25	0.12	0.08	_	246	235	9+95	1
12+86 - 15+19	0.09	0.11	_	259	207	12+95	1
15+86 - 18+90	0.19	0.08	_	296	310	14+95	1
19+06 - 19+55	0.01	0.03	_	47	64	17+95	1
26+33 - 26+53	_	_	0.01	_	32	19+25	1
27+20 - 29+00	0.08	_	0.12	168	153	25+90	1
29+27 - 30+19	0.04	_	_	61	_	27+90	1
TOTAL	0.81	0.55	0.13	TOTAL	3,471	29+90	1
POTASSIUM FERTIL NUTRIENT @ 90 LE		50 LBS.	12 LBS.	TEMP EROS. CONTR		T _O	
PHOSPHOROUS FERTILIZER NUTRIENT ◎ 90 LBS./ACRE		50 LBS.	12 LBS.	SEEDING Pound!		T	11
NITROGEN FERTILI. NUTRIENT @ 90 LB]			
				Λ			

S	TONE RIPRAP, CLASS A4 & FILTER FAE	RIC	<u> </u>	
	LOCATION		SQ YD	
LT	0+50		30	
RT	0+50		44	
LT & RT	7+50		104	
LT & RT	10+00		94	
CULVERT	NO. 1		81	
CULVERT NO. 2				
CULVERT	NO. 3		59	
CULVERT	NO. 4		241	
STRUCTUF	RE NO. 1		42	
PIPE OUT	FALL LOCATIONS		45	
(SEE PIP.	E SCHEDULE ON SHEET 17)		45	
	TO [*]	TAL	867	

2+36 - 7+84 LT

2+36 - 7+84 RT

9+80 - 10+64 LT

9+80 - 11+50 RT 12+70 - 15+46 LT 13+10 - 13+55 RT

17+23 - 18+87 LT

17+18 - 18+87 RT

29+30 LT & RT

EACH

		REM	MOVAL OF EXISTING STRUCTURES	
NO.	LOCATION	TYPE	DESCRIPTION	EACH
1	2+33	FOOTBRIDGE 35' LENGTH	PRECAST CONCRETE BRIDGE SLAB WITH CONCRETE ABUTMENTS, STEEL HANDRAIL & SIDEWALK APPROACHES. U.S. 25TH AVE.	1
2	13+09	FOOTBRIDGE 25' LENGTH	WOOD PLANK DECK, NO SIDE RAILS, 2 WOOD POST PIERS. U.S. MONTROSE AVE.	1
3	14 + 79	FOOTBRIDGE 27' LENGTH	CONCRETE DECK, RED BRICK PARAPETS, SIDEWALK APPROACHES. D.S. HIRSCHBERG	1
4	<i>16 + 19</i>	FOOTBRIDGE 23' LENGTH	LONGITUDINAL WOOD PLANK DECK BOARDS, TIMBER GIRDERS, WOOD SIDE RAILS AND RAIL POSTS, SIDEWALKS, U.S. HIRSCHBERG	1
5	16 + 75	FOOTBRIDGE 24' LENGTH	LONGITUDINAL WOOD PLANK DECK BOARDS, TIMBER GIRDERS, WOOD SIDE RAILS & RAIL POSTS WITH UNDULATING PICKETS, SIDEWALKS	1
6	17+76	FOOTBRIDGE 24' LENGTH	WOOD FOOTBRIDGE	1
7	17+94	FOOTBRIDGE 25' LENGTH	LONGITUDINAL WOOD PLANK DECK BOARDS, TIMBER GIRDERS, WOOD SIDE RAILS & RAIL POSTS. D.S. ALLEY CULVERT	1
8	15+50	CULVERT	CAST-IN-PLACE CONCRETE SLAB ON STONE ABUTMENTS	1
9	18+96	BOX CULVERT	CONCRETE BOX CULVERT WITH CONCRETE CURB	1

STORM SEWERS, CLASS A, TYP.	E 1 12"
LOCATION	FOOT
SEE PIPE SCHEDULE ON SHEET 17	6

STORM SEWERS, CLASS A, TYP.	E 2 36"
LOCATION	F00T
SEE PIPE SCHEDULE ON SHEET 17	9

STORM SEWERS, CLASS B, TYP	E 2 12"
LOCATION	FOOT
SEE PIPE SCHEDULE ON SHEET 17	1

	STORM SEWER REMOVAL							
SIZE	LC	CATION			FOOT			
6"	SEE PIPE	SCHEDU	JLE ON	SHEET 17	10			
8"	11	п	н	п	17			
10"	"	n	"	п	9			
15"	"	п	и	п	7			
24"	"	н	н	п	7			
36"	"	п	н	н	16			

LOCATION	CU YD
SEE PIPE SCHEDULE ON SHEET 17	5.7
HAIN LINK FENCE TO BE REMO	VED
ND RE-ERECTED	
LOCATION FOOT	

532

566

103 171 277

50

181

160

75

CONCRETE COLLAR

JLL /	II L SCIILD	OLL ON	JIILLI	11	1
	STORI	1 SEW	IER F	REMOVAL	
SIZE	LC	CATION			FOOT
6"	SEE PIPE	SCHEDU	ULE ON	SHEET 17	10
8"	"	н	"	н	17
10"	"	п	"	н	9
15"	"	н	"	н	7
24"	н	"	н	п	7
36"	н	н	н	н	16

SCHEDULE OF EARTHWORK				
LOCATION	CHANNEL EXCAVATION CU YD	STRUCTURE EXCAVATION CU YD	TOPSOIL EXCAVATION AND PLACEMENT CU YD	TOPSOIL PLACEMENT (NOT PAID FOR) CU YD
0+33 - 1+50	375	494	43	17
2+31 - 7+84	802	1,851	176	175
9+80 - 12+14	342	598	46	114
12+90 - 15+13	226	628	59	39
15+87 - 18+87	440	972	80	60
19+06 - 19+55	78		37	33
27+44 - 28+80	76		86	66
TOTAL	2,339	4,543	527	504

SIZE LOCATION FOOT		PIPE CULVERT REMOVAL	
48" CTA 10,50 (7 CHIVEDTS @ 504) 177	SIZE	LOCATION	F00T
40 31A. 12+32 (3 CULVERT3 @ 39) 1//	48"	STA. 12+52 (3 CULVERTS @ 59')	177

BUIL			
LOCATION	DESCRIPTION		L SUM
STA. 11+00 LT	GARAGE		1

SEGMENTAL CONCRETE BLOCK WALL LOCATION SQ FT 0+33 - 1+50 LT & RT 2,775 2+31 - 7+84 LT & RT 11,735 9+80 - 12+14 LT & RT 4,488 12+90 - 15+13 LT & RT 4,081

15+87 - 18+87 LT & RT 5,580

STONE	DUMPED RIPRAP, CLAS	S A4
	LOCATION	TON
LT & RT	0+69 - 1+50	18
LT & RT	2+31 - 7+28	126
LT & RT	<i>10+38 - 12+1</i> 5	46
LT & RT	12+90 - 15+13	58
LT & RT	<i>15+87 - 18+87</i>	76
	TOTAL	324

TOTAL 28,659

SLOPE WALL 6"		
LOC	ATION	SQ YD
LT	7+70	22
RT	7+70	22
LT	9+95	25
RT	9+95	23
	TOTAL	92

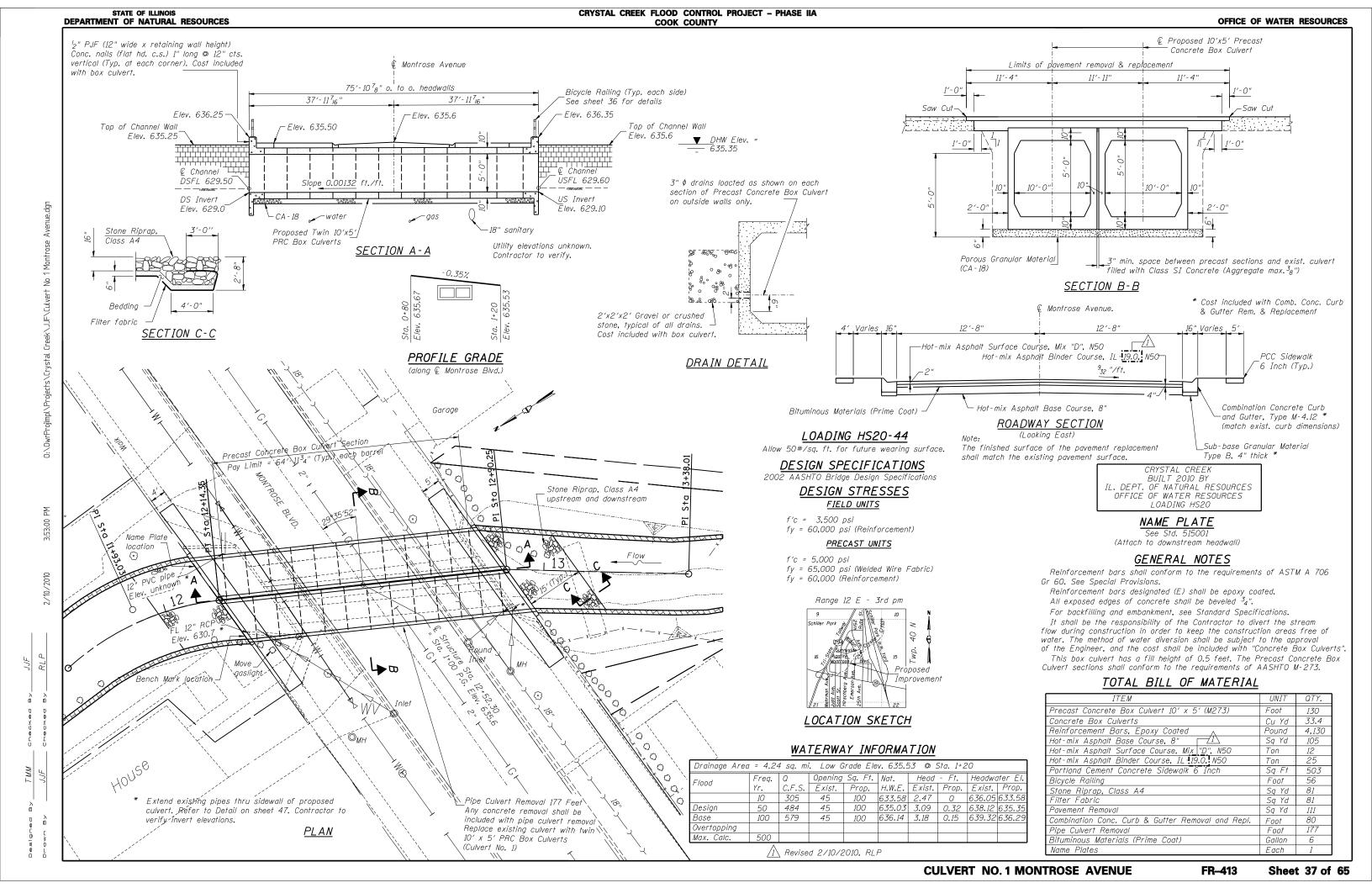
CATCH BASINS, TYPE C, TYPE 8 GRATE

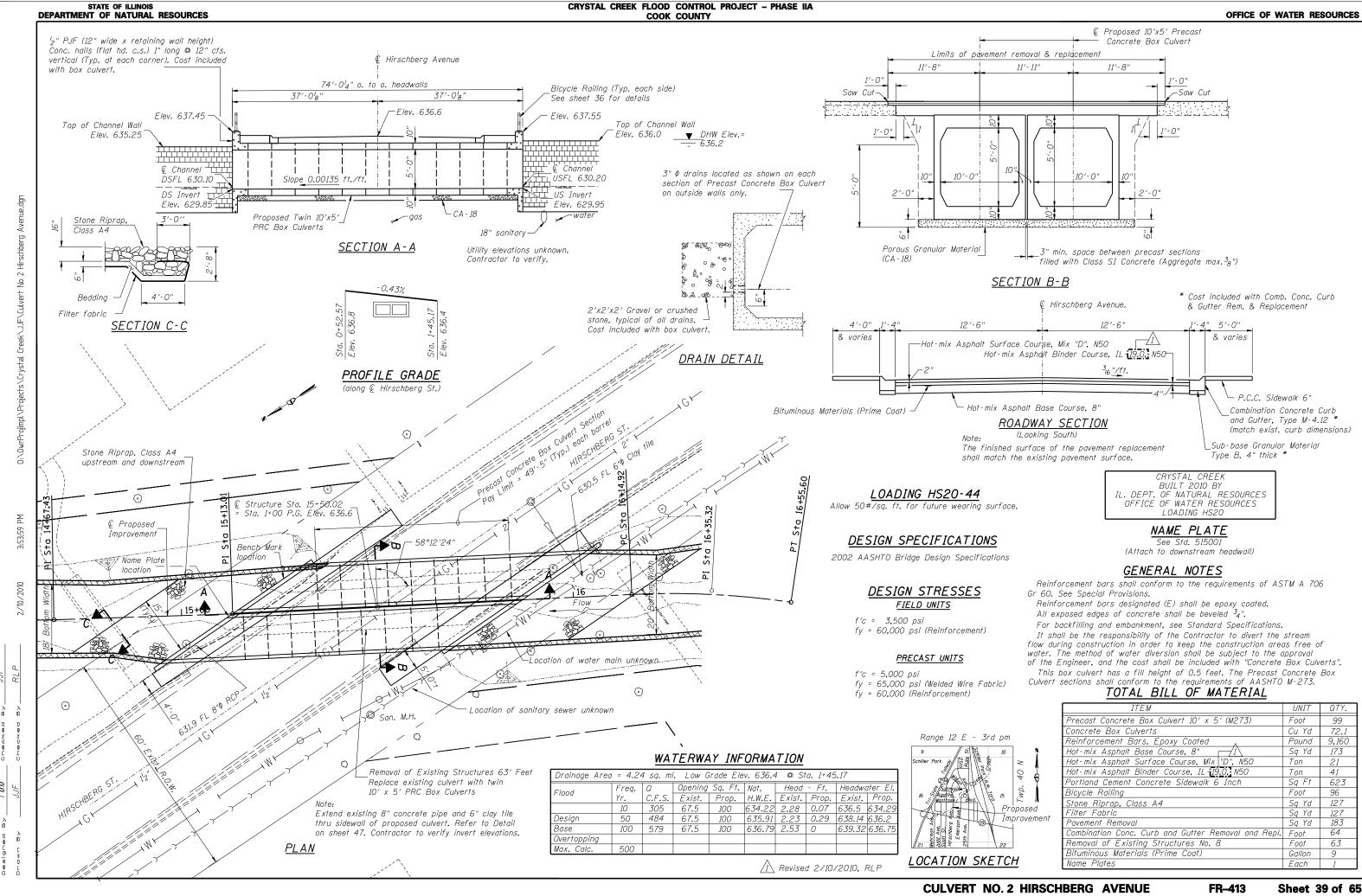
LOCATION

SEE PIPE SCHEDULE ON SHEET 17

CHAIN LINK FL	ENCE, 6'
LOCATION	FOOT
0+33 - 1+47 LT	116
0+33 - 1+47 RT	113
2+31 - 7+84 LT	541
2+31 - 7+84 RT	563
9+80 - 12+14 LT	232
9+80 - 12+14 RT	235
12+90 - 15+13 LT	244
12+90 - 15+13 RT	185
15+87 - 18+87 LT	276
15+87 - 18+87 LT	291
Structure #2	43
Structure #3	41
Structure #4	45
Structure #5	45
Structure #6	53
Structure #7	45
TOTAL	<i>3,068</i>

Revised 2/10/2010, RLP





Foot

