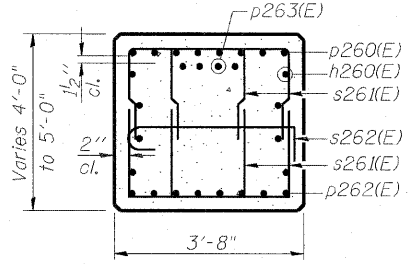
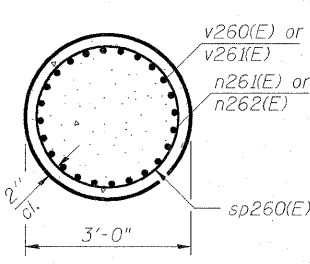


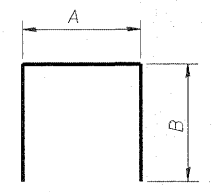
SEC. A-A



SEC. B-B

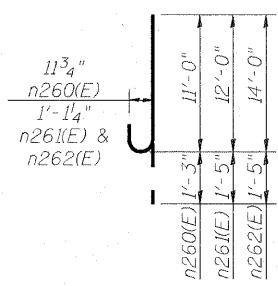


SEC. C-C

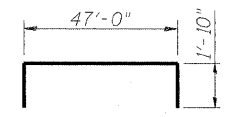


BARS
A & B DIMENSIONS

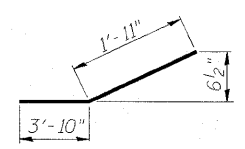
Bar	A	B
s261(E)	2'-2"	4'-0"
s263(E)	3'-2"	2'-3"
s265(E)	3'-2"	11'-0"
t261(E)	12'-8"	1'-10"
u261(E)	3'-4"	4'-2"



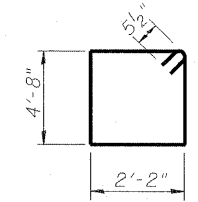
BAR n260(E), n261(E) & n262(E)



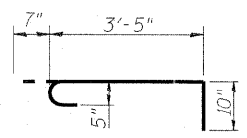
BAR p260(E)



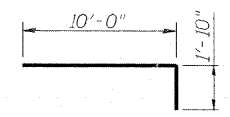
BAR p262(E)



BAR s260(E)

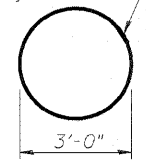


BAR s262(E)

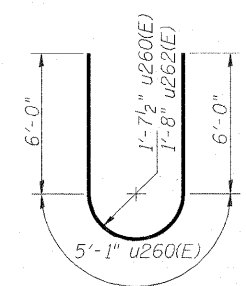


BAR p263(E)

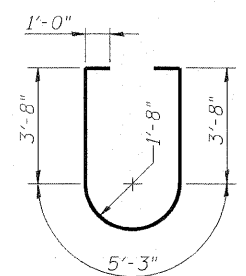
Shop welded per AWS D1.4 or mechanically spliced; cost included in Reinforcement Bars. Epoxy Coated



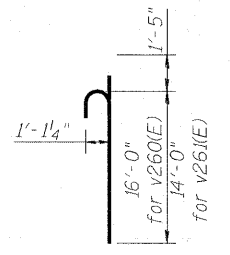
BAR s264(E)



BARS u260(E) & u262(E)



BAR u263(E)



BAR v260(E) or v261(E)

k:\projects\63016609\082-0322 & 0324 - figure\900.cad\301.dwg\76c76_5027.dwg\14-Pier13-2.dwg



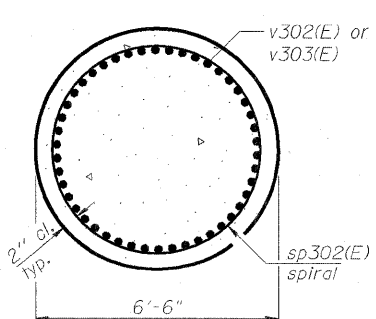
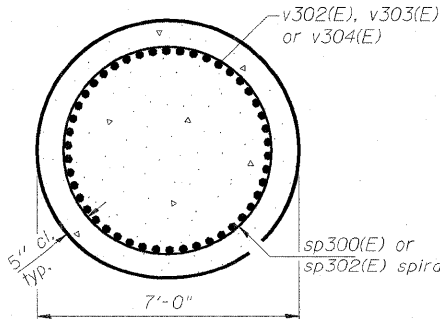
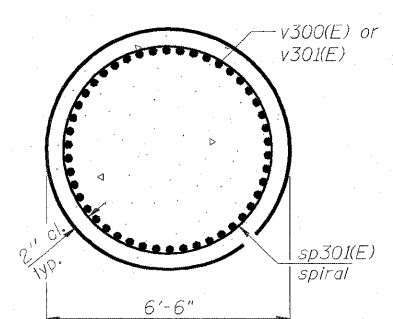
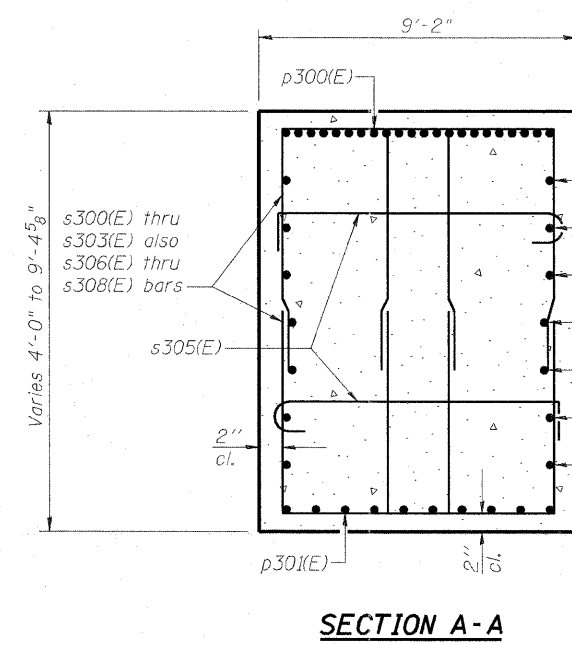
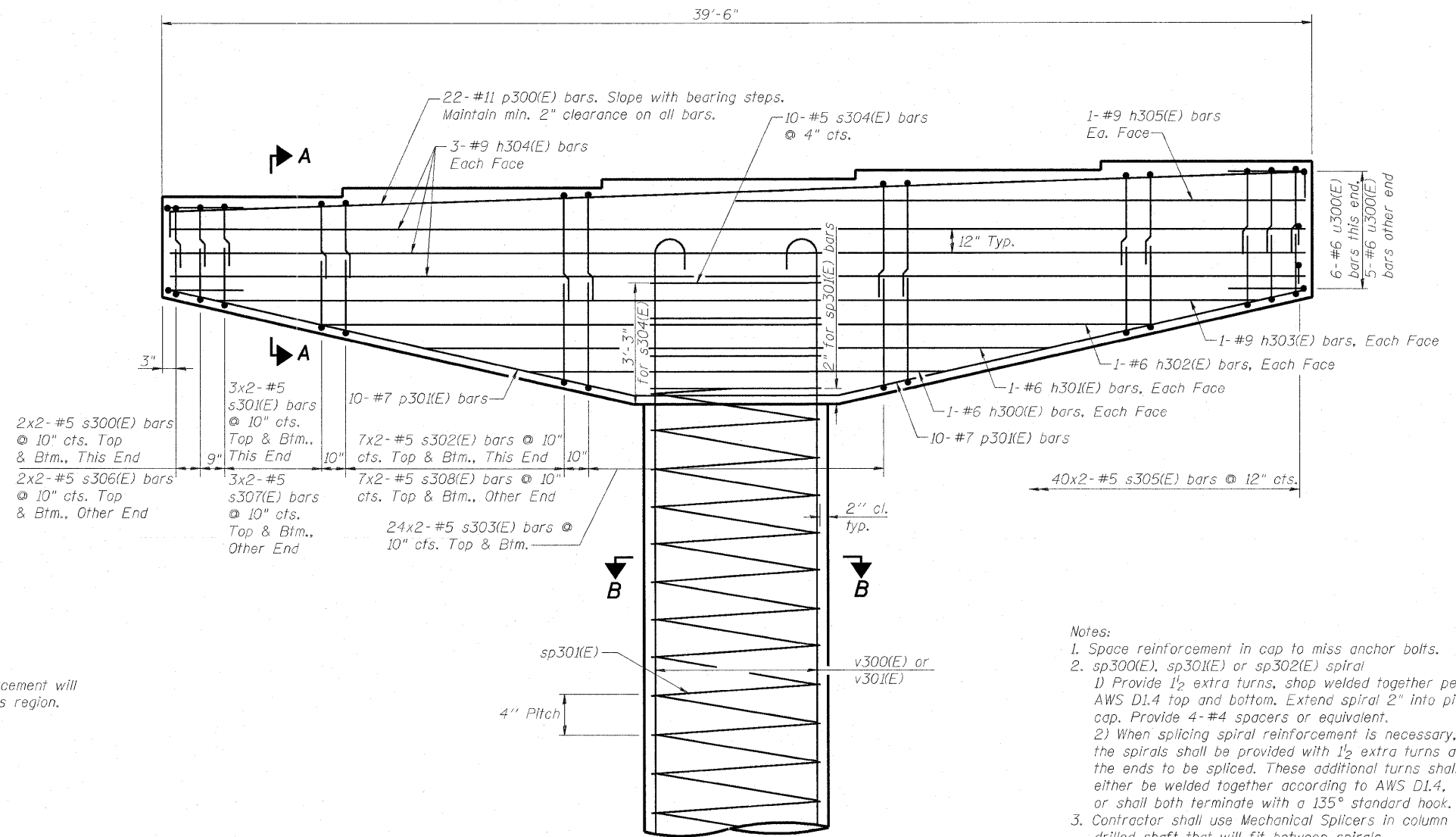
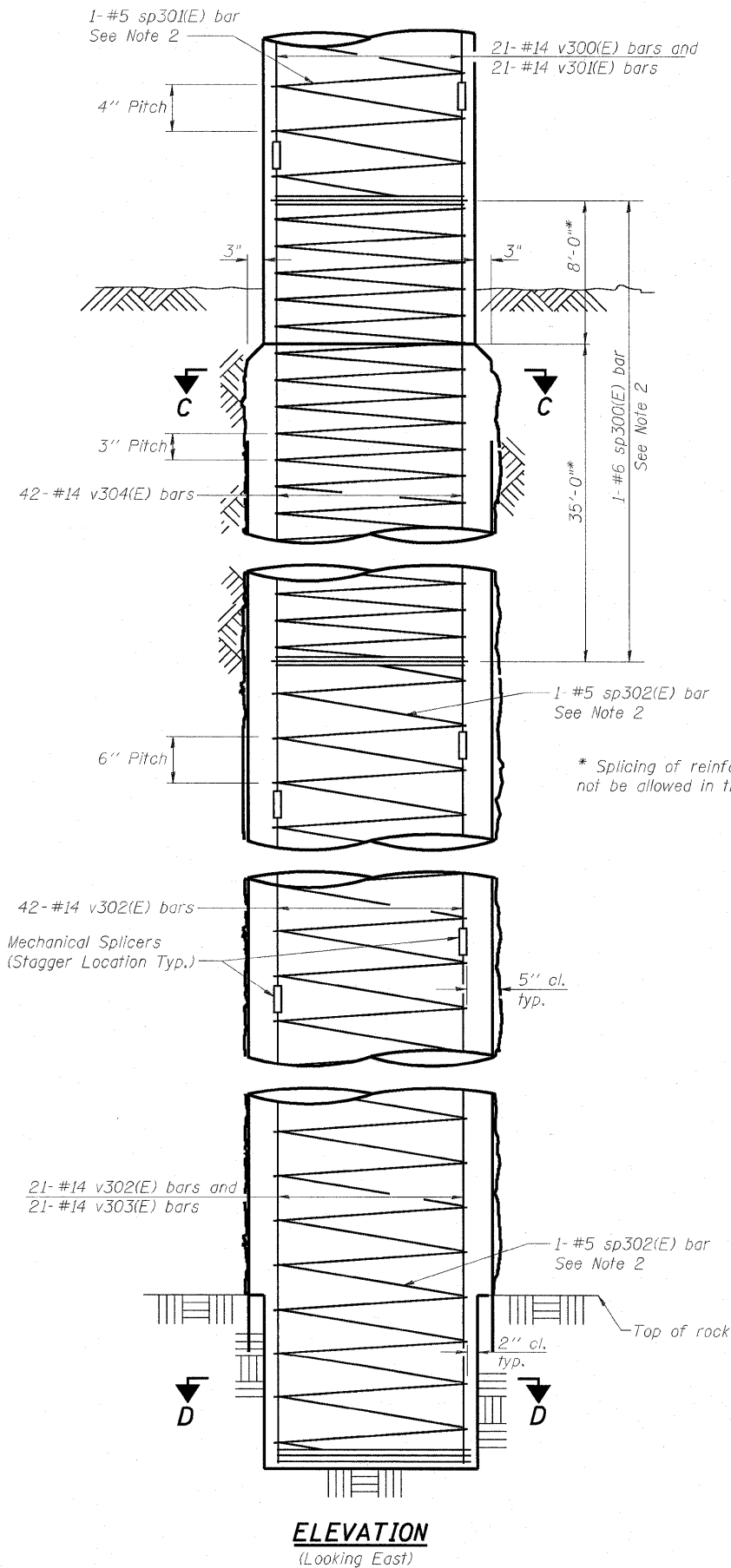
USER NAME =	DESIGNED - DDB	REVISED -
PLOT SCALE = 0.166667' / IN.	DRAWN - BRD	REVISED -
PLOT DATE = 6/30/2011	CHECKED - LLV	REVISED -
	DATE - 07-01-11	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

PIER - UNIT 4 - PIER 13 - DETAILS
I-70E OVER I-55, CSX & KCS RAILROADS

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
70	82-1-B-2	ST. CLAIR	399	301
S.N. 082-0322 & S.N. 082-0324		CONTRACT NO. 76C76		
FED. ROAD DIST. NO.		ILLINOIS FED. AID PROJECT		

SCALE: SHEET S-174 OF S-234 SHEETS STA. TO STA.



- Notes:
- Space reinforcement in cap to miss anchor bolts.
 - sp300(E), sp301(E) or sp302(E) spiral
 - Provide 1/2 extra turns, shop welded together per AWS D1.4 top and bottom. Extend spiral 2" into pier cap. Provide 4-#4 spacers or equivalent.
 - When splicing spiral reinforcement is necessary, the spirals shall be provided with 1/2 extra turns at the ends to be spliced. These additional turns shall either be welded together according to AWS D1.4, or shall both terminate with a 135° standard hook.
 - Contractor shall use Mechanical Splicers in column and drilled shaft that will fit between spirals.
 - Contractor shall test the Drilled Shaft in accordance with special provision for Crosshole Sonic Logging.

Min. Lap Lengths
#5 bars: 3'-3"

H:\p\projects\60046680\082-0322 & 0324 - F1\river\900\con\301-drawing\76a08-master\consolidated\structural\082-0322-sheet\082-0324-Pier1-2.dgn
 082-0322 & 0324 - F1\river\900\con\301-drawing\76a08-master\consolidated\structural\082-0322-sheet\082-0324-Pier1-2.dgn



USER NAME =	DESIGNED - DDB	REVISED -
PLOT SCALE = 0.166667' / IN.	DRAWN - BRD	REVISED -
PLOT DATE = 8/15/2011	CHECKED - LLV	REVISED -
	DATE - 08-12-11	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

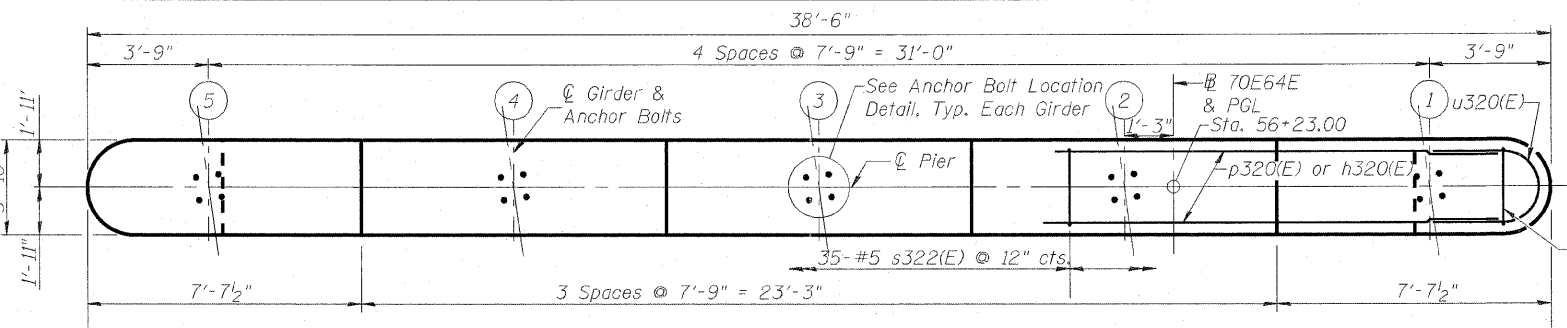
PIER - S.N. 082-0324 - PIER 1 - DETAILS
I-70E OVER I-55, CSX & KCS RAILROADS

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
70	82-1-B-2	ST. CLAIR	399	303
S.N. 082-0322 & S.N. 082-0324		CONTRACT NO. 76C76		
FED. ROAD DIST. NO.		ILLINOIS FED. AID PROJECT		

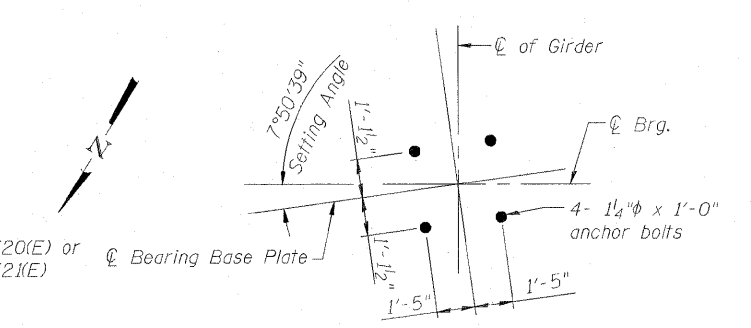
SCALE: SHEET S-176 OF S-234 SHEETS STA. TO STA.

Notes:

1. Space reinforcement in cap to miss anchor bolts.
2. Pour steps monolithically with cap.
3. For details of piles, see sheet S-187 of S-234.
4. ϕ of Pier is radial to ϕ 70E64E at Sta. 56+23.00.
5. #5 sp320(E) spiral, each column
 - 1) Provide $1\frac{1}{2}$ extra turns, shop welded together per AWS D1.4 top and bottom. Extend spiral 2" into pier cap & crashwall. Provide 4-#4 spacers or equivalent.
 - 2) When splicing spiral reinforcement is necessary, the spirals shall be provided with $1\frac{1}{2}$ extra turns at the ends to be spliced. These additional turns shall either be welded together according to AWS D1.4, or shall both terminate with a 135° standard hook.
6. Contractor shall use Mechanical Splicers in columns that will fit between spirals.



TOP PLAN



ANCHOR BOLT LOCATION DETAIL

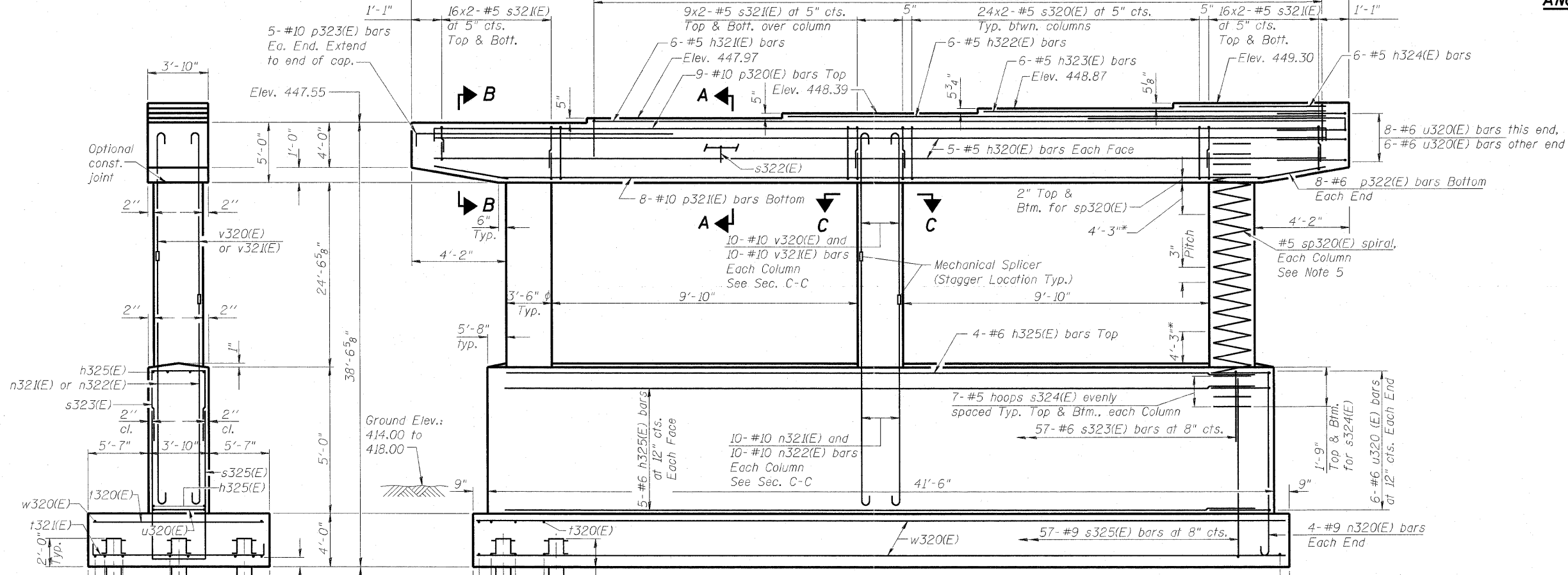
PILE DATA

Type: HP 12x63
 Nominal Required Bearing: 400 kips
 Factored Resistance Available: 200 kips
 Est. Length: 102'
 No. Production Piles: 33
 No. Test Piles: 0

BILL OF MATERIAL

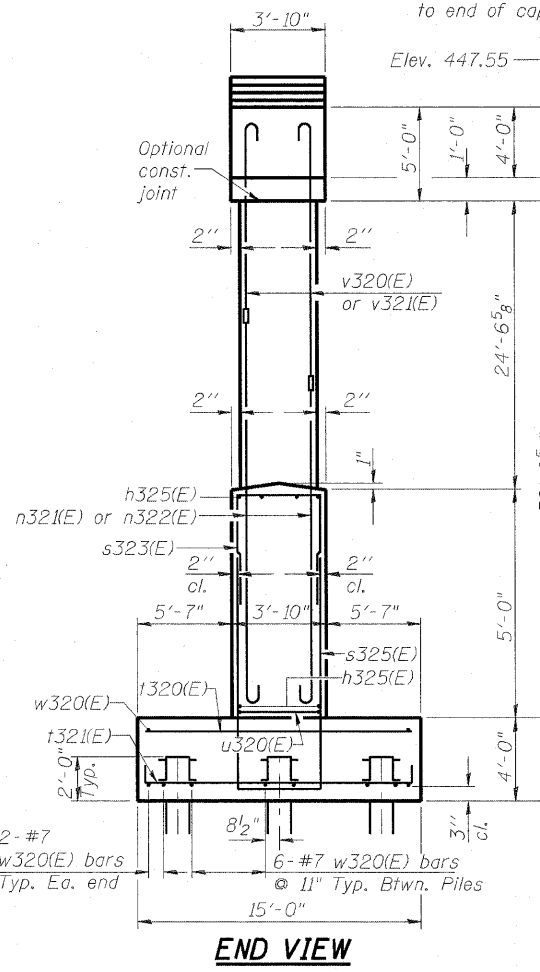
Bar	No.	Size	Length	Shape
h320(E)	10	#5	34'-8"	
h321(E)	6	#5	28'-9"	
h322(E)	6	#5	21'-0"	
h323(E)	6	#5	13'-3"	
h324(E)	6	#5	5'-6"	
h325(E)	14	#6	37'-8"	
n320(E)	8	#9	9'-9"	U
n321(E)	30	#10	11'-5"	U
n322(E)	30	#10	13'-5"	U
p320(E)	9	#10	38'-4"	U
p321(E)	8	#10	31'-2"	U
p322(E)	16	#6	5'-8"	U
p323(E)	10	#10	11'-10"	U
s320(E)	96	#5	14'-11"	U
s321(E)	164	#5	10'-4"	U
s322(E)	35	#5	4'-11"	U
s323(E)	57	#6	8'-0"	U
s324(E)	42	#5	9'-11"	U
s325(E)	57	#9	20'-6"	U
sp320(E)	3	#5	24'-11"	W
t320(E)	44	#7	14'-8"	U
t321(E)	76	#9	18'-4"	U
u320(E)	26	#6	17'-4"	U
u321(E)	30	#5	11'-0"	U
v320(E)	30	#10	24'-0"	U
v321(E)	30	#10	22'-0"	U
w320(E)	32	#7	42'-8"	U
Structure Excavation		Cu. Yd.	231.5	
Concrete Structures		Cu. Yd.	181.7	
Reinforcement Bars, Epoxy Coated		Pound	35,740	
Furnishing Steel Piles HP12x63		Foot	3,366	
Driving Piles		Foot	3,366	
Pile Shoes		Each	33	
Mechanical Splicers		Each	60	

** Length is height of spiral.
 See next sheet for Bar Details and Sections.

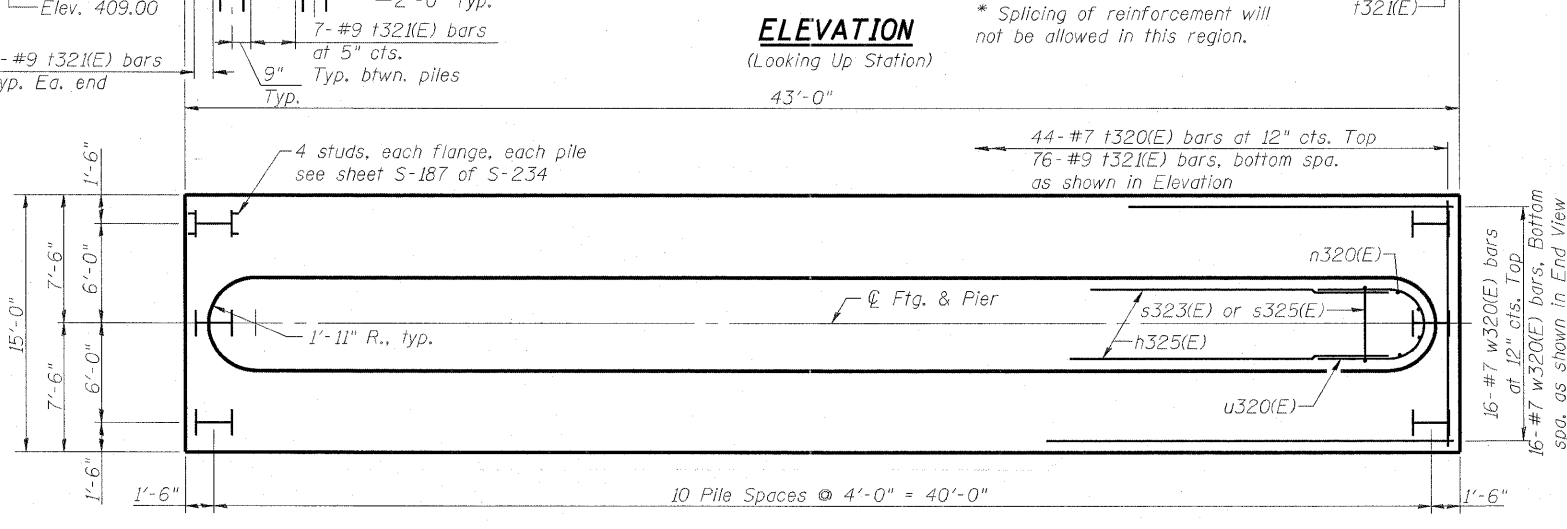


ELEVATION
(Looking Up Station)

* Splicing of reinforcement will not be allowed in this region.



END VIEW



FOOTING PLAN



USER NAME =	DESIGNED - DDB	REVISED -
PLOT SCALE = 0.166667' / IN.	DRAWN - BRD	REVISED -
PLOT DATE = 6/30/2011	CHECKED - LLV	REVISED -
	DATE - 07-01-11	REVISED -

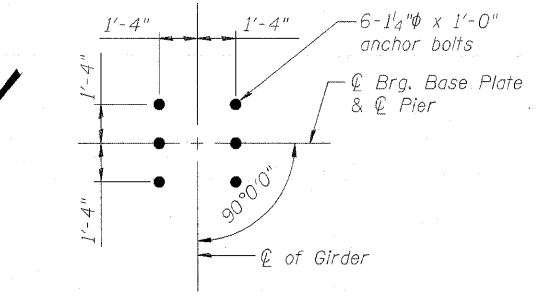
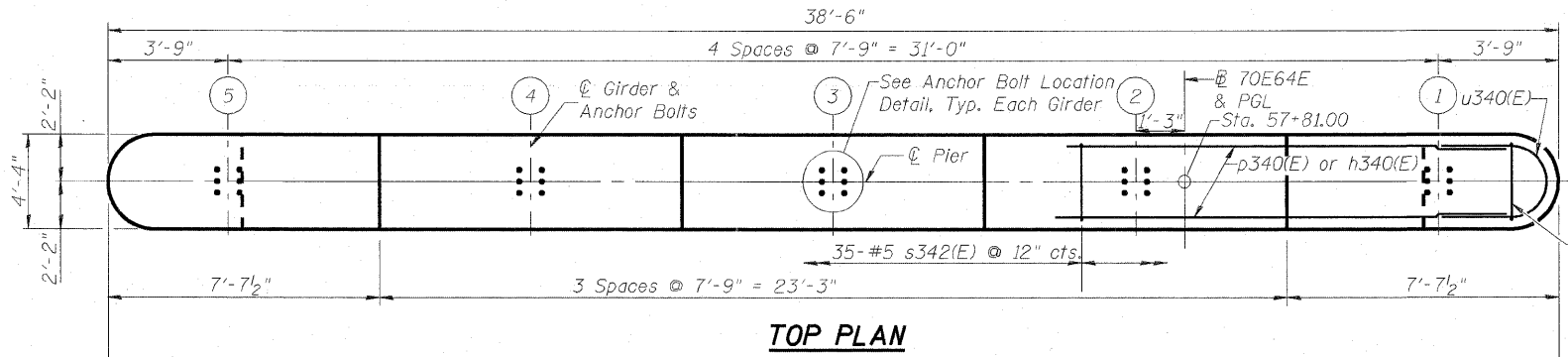
STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION

PIER - S.N. 082-0324 - PIER 2 - PLANS & ELEVATIONS
 I-70E OVER I-55, CSX & KCS RAILROADS

SCALE: SHEET S-177 OF S-234 SHEETS STA. TO STA.

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
70	82-1-B-2	ST. CLAIR	399	304
S.N. 082-0322 & S.N. 082-0324		CONTRACT NO. 76C76		
FED. ROAD DIST. NO.		ILLINOIS FED. AID PROJECT		

- Notes:
1. Space reinforcement in cap to miss anchor bolts.
 2. Pour steps monolithically with cap.
 3. For details of piles, see sheet S-187 of S-234.
 4. ϕ of Pier is radial to ϕ 70E64E at Sta. 57+81.00.
 5. #5 sp340(E) spiral, each column
 - 1) Provide 1/2 extra turns, shop welded together per AWS D1.4 top and bottom. Extend spiral 2" into pier cap & crashwall. Provide 4-#4 spacers or equivalent.
 - 2) When splicing spiral reinforcement is necessary, the spirals shall be provided with 1/2 extra turns at the ends to be spliced. These additional turns shall either be welded together according to AWS D1.4, or shall both terminate with a 135° standard hook.
 6. Contractor shall use Mechanical Splicers in columns that will fit between spirals.



ANCHOR BOLT LOCATION DETAIL

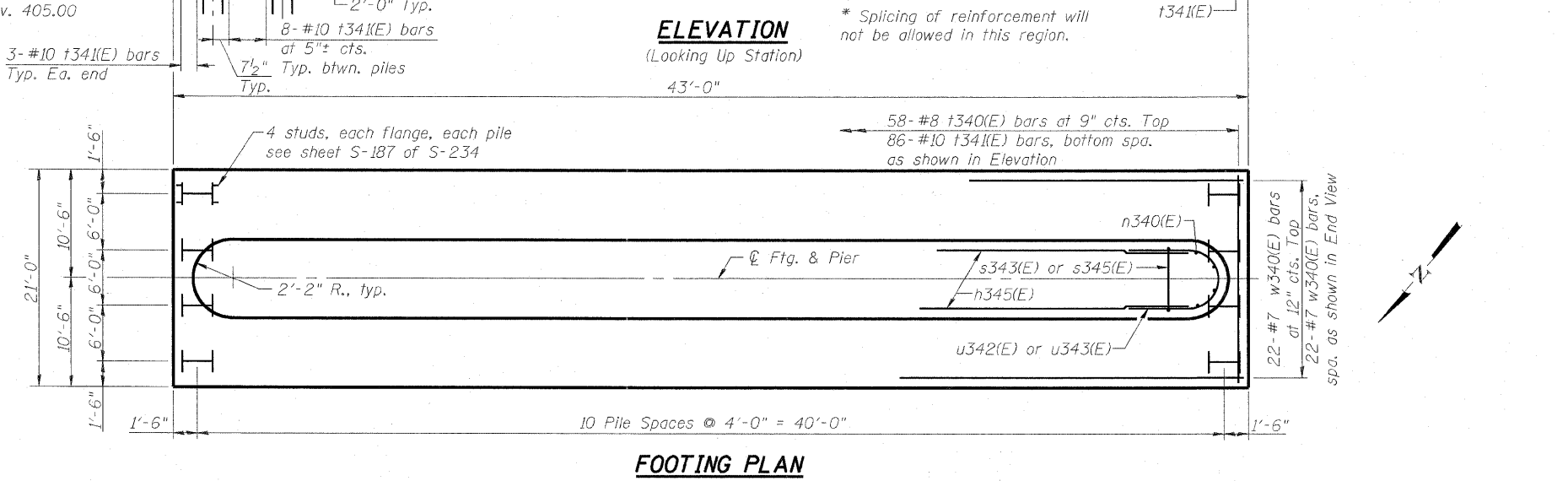
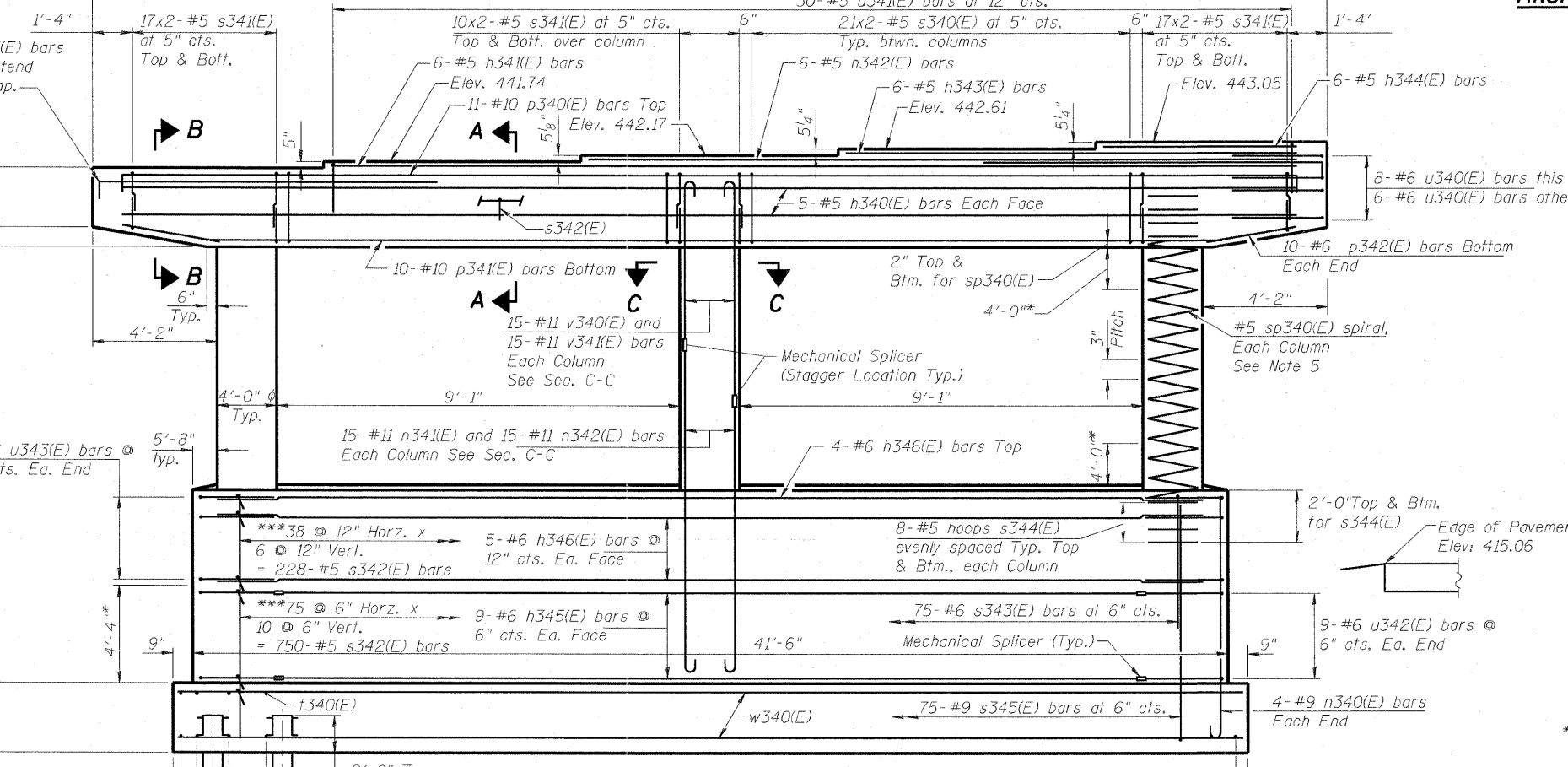
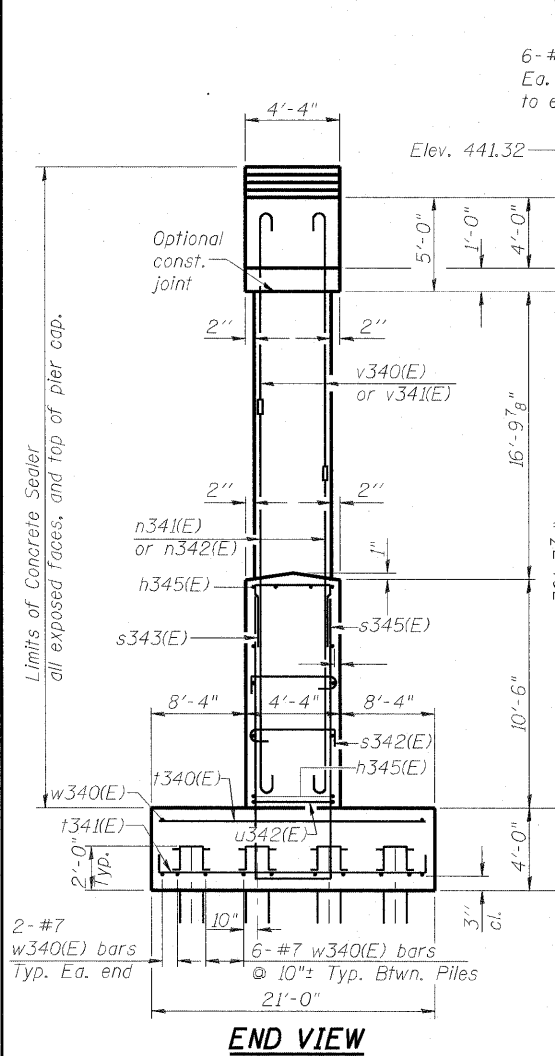
PILE DATA

Type: HP 12x63
 Nominal Required Bearing: 400 kips
 Factored Resistance Available: 200 kips
 Est. Length: 102'
 No. Production Piles: 44
 No. Test Piles: 0

BILL OF MATERIAL

Bar	No.	Size	Length	Shape
h340(E)	10	#5	34'-2"	
h341(E)	6	#5	28'-6"	
h342(E)	6	#5	20'-9"	
h343(E)	6	#5	13'-0"	
h344(E)	6	#5	5'-3"	
h345(E)	18	#6	25'-2"	
h346(E)	14	#6	37'-2"	
n340(E)	8	#9	15'-3"	
n341(E)	45	#11	16'-7"	
n342(E)	45	#11	18'-7"	
p340(E)	11	#10	37'-10"	
p341(E)	10	#10	31'-2"	
p342(E)	20	#6	5'-4"	
p343(E)	12	#10	11'-10"	
s340(E)	84	#5	15'-7"	
s341(E)	176	#5	10'-8"	
s342(E)	1013	#5	5'-6"	
s343(E)	75	#6	8'-4"	
s344(E)	48	#5	11'-6"	
s345(E)	75	#9	31'-10"	
sp340(E)	3	#5	17'-3"	
t340(E)	58	#8	20'-8"	
t341(E)	86	#10	24'-4"	
u340(E)	14	#6	18'-2"	
u341(E)	30	#5	11'-6"	
u342(E)	18	#6	18'-3"	
u343(E)	12	#6	15'-7"	
v340(E)	45	#11	17'-11"	
v341(E)	45	#11	15'-11"	
w340(E)	44	#7	42'-8"	
Structure Excavation			Cu. Yd.	348.2
Concrete Structures			Cu. Yd.	260.6
Reinforcement Bars, Epoxy Coated			Pound	61,940
Furnishing Steel			Foot	4,488
Piles HP12x63			Foot	4,488
Driving Piles			Each	44
Pile Shoes			Each	126
Mechanical Splicers			Sq. Ft.	2519
Concrete Sealer				

** Length is height of spiral.
 See next sheet for Bar Details and Sections.



***Both hooks of s342(E) bars shall engage horiz. & vert. bars and 90° hook on two successive s342(E) bars on same vert. bar shall be alternated end for end. Includes row of s342(E) bars on the top mat of pile cap.

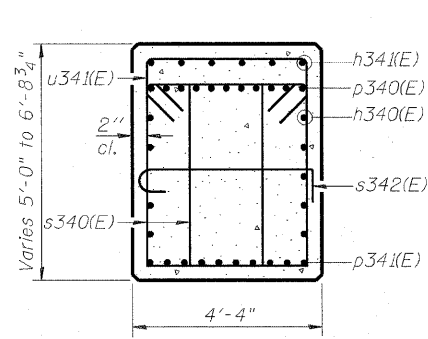


USER NAME =	DESIGNED - DDB	REVISED -
PLOT SCALE = 0.166667' / IN.	DRAWN - BRD	REVISED -
PLOT DATE = 6/30/2011	CHECKED - LLV	REVISED -
	DATE - 07-01-11	REVISED -

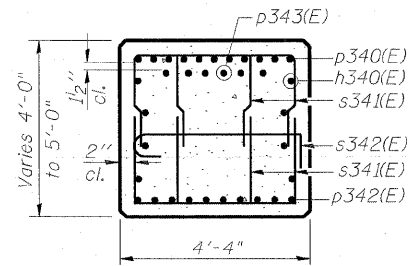
STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION

PIER - S.N. 082-0324 - PIER 3 - PLANS & ELEVATIONS
 I-70E OVER I-55, CSX & KCS RAILROADS

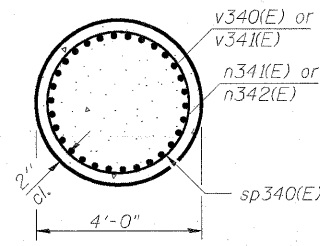
F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
70	82-1-B-2	ST. CLAIR	399	306
S.N. 082-0322 & S.N. 082-0324	CONTRACT NO. 76C76			
FED. ROAD DIST. NO.	ILLINOIS FED. AID PROJECT			



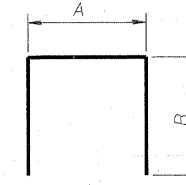
SEC. A-A



SEC. B-B



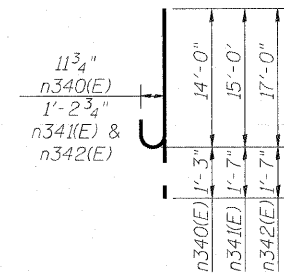
SEC. C-C



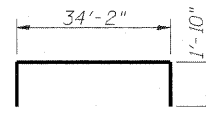
BARS

A & B DIMENSIONS

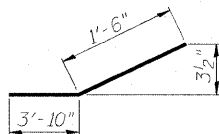
Bar	A	B
s341(E)	2'-8"	4'-0"
s343(E)	3'-10"	2'-3"
s345(E)	3'-10"	14'-0"
1341(E)	20'-8"	1'-10"
u341(E)	4'-0"	3'-9"



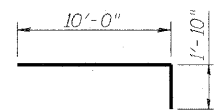
BAR n340(E), n341(E) & n342(E)



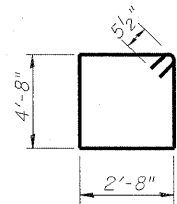
BAR p340(E)



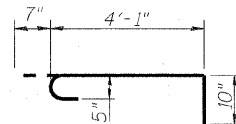
BAR p342(E)



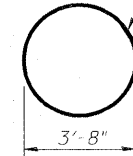
BAR p343(E)



BAR s340(E)

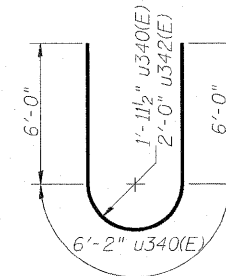


BAR s342(E)

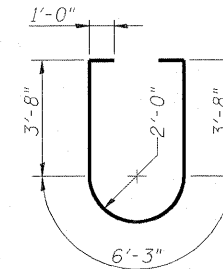


BAR s344(E)

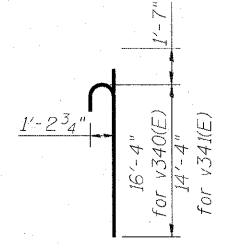
Shop welded per AWS D1.4 or mechanically spliced; cost included in Reinforcement Bars. Epoxy Coated



BARS u340(E) & u342(E)



BAR u343(E)



BAR v340(E) or v341(E)

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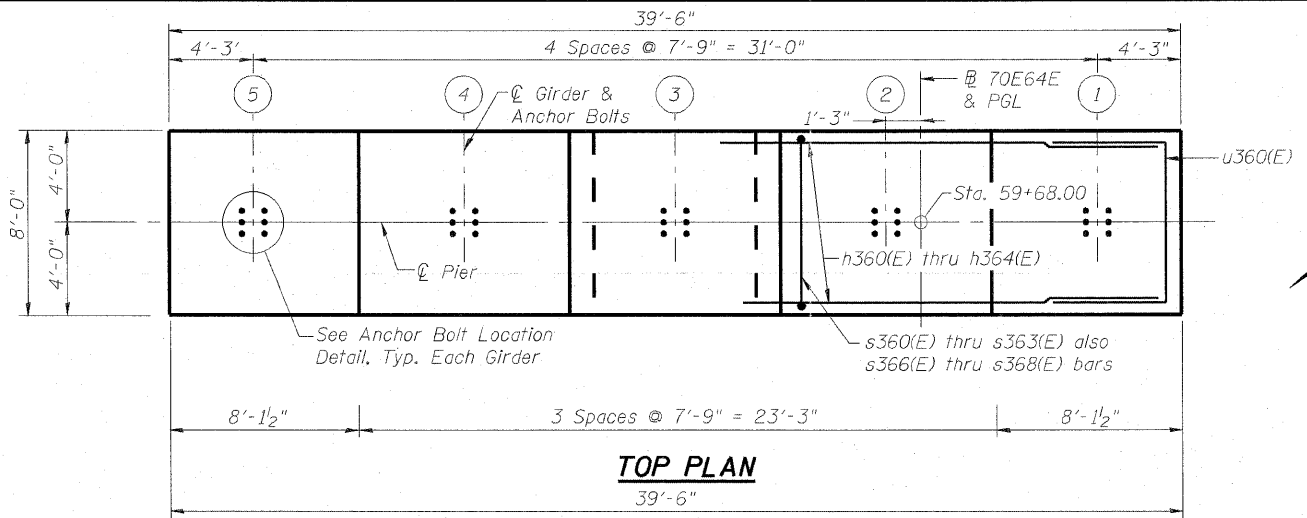
USER NAME =	DESIGNED - DDB	REVISED -
	DRAWN - BRD	REVISED -
PLOT SCALE = 0.166667' / IN.	CHECKED - LLV	REVISED -
PLOT DATE = 6/30/2011	DATE - 07-01-11	REVISED -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

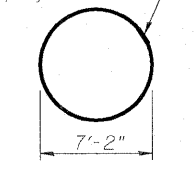
PIER - S.N. 082-0324 - PIER 3 - DETAILS		
I-70E OVER I-55, CSX & KCS RAILROADS		
SCALE:	SHEET S-180 OF S-234 SHEETS	STA. TO STA.

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
70	82-1-B-2	ST. CLAIR	399	307
S.N. 082-0322 & S.N. 082-0324			CONTRACT NO. 76C76	
FED. ROAD DIST. NO.		ILLINOIS FED. AID PROJECT		

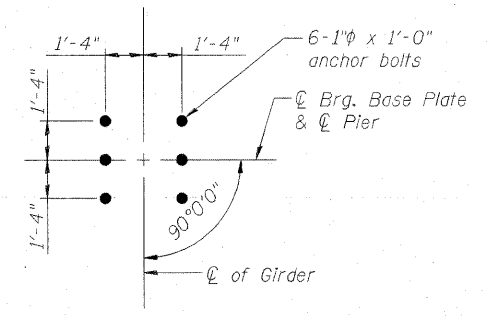
Notes:
 1. Pour steps monolithically with cap.
 2. ϕ of Pier is perpendicular to ϕ 70E64E at Sta. 59+68.00.



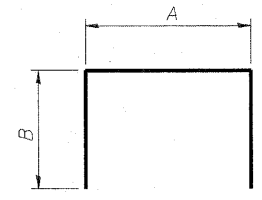
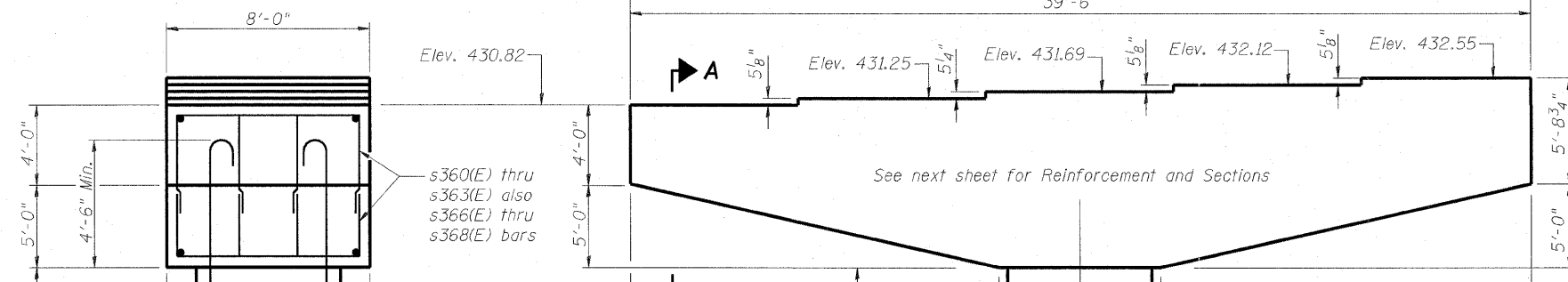
Shop welded per AWS D1.4 or mechanically spliced; cost included in Reinforcement Bars, Epoxy Coated



BAR s364(E)



ANCHOR BOLT LOCATION DETAIL



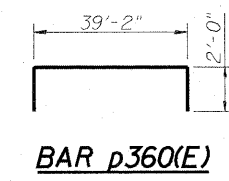
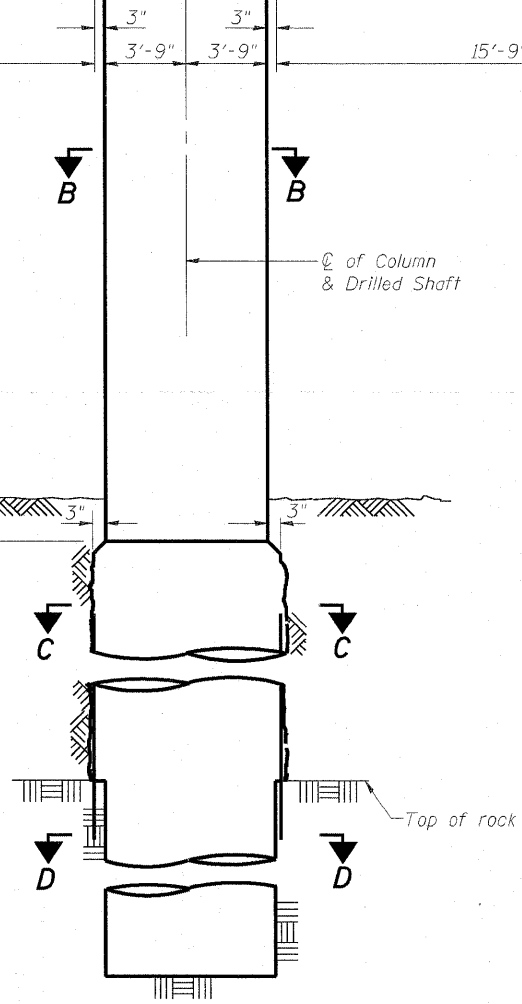
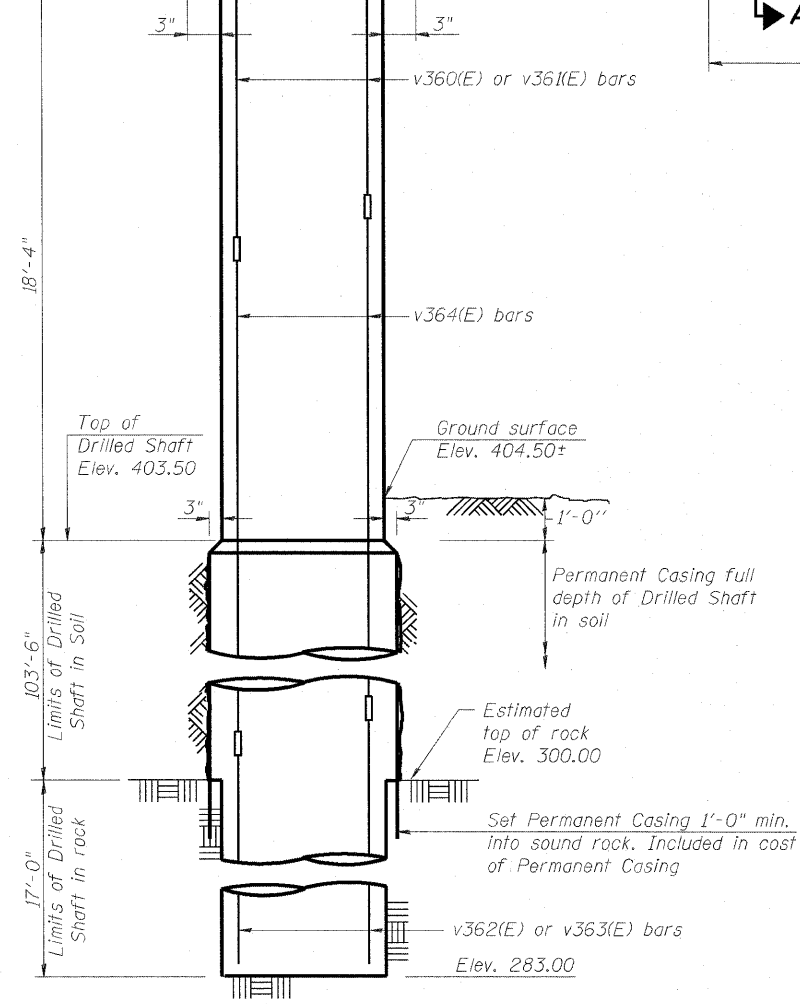
BARS A & B DIMENSIONS

Bar	A	B
s360(E)	5'-1"	3'-8"
s361(E)	5'-1"	4'-7"
s362(E)	5'-1"	5'-9"
s363(E)	5'-1"	6'-4"
s366(E)	5'-1"	5'-4"
s367(E)	5'-1"	5'-6"
s368(E)	5'-1"	6'-0"
u360(E)	7'-7"	6'-0"

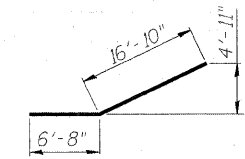
BILL OF MATERIAL

Bar	No.	Size	Length	Shape
h360(E)	2	#6	13'-11"	—
h361(E)	2	#6	21'-0"	—
h362(E)	2	#6	28'-0"	—
h363(E)	2	#9	35'-1"	—
h364(E)	6	#9	39'-2"	—
h365(E)	2	#9	19'-7"	—
p360(E)	24	#11	43'-2"	—
p361(E)	20	#7	23'-6"	—
s360(E)	20	#5	12'-5"	—
s361(E)	28	#5	14'-3"	—
s362(E)	48	#5	16'-7"	—
s363(E)	80	#5	17'-9"	—
s364(E)	12	#5	22'-6"	—
s365(E)	82	#5	9'-1"	—
s366(E)	20	#5	15'-9"	—
s367(E)	28	#5	16'-1"	—
s368(E)	48	#5	17'-1"	—
sp360(E)	1	#7	51'-0"	—
sp361(E)	1	#5	9'-6"	—
sp362(E)	2	#6	39'-3"	—
u360(E)	12	#6	19'-7"	—
v360(E)	36	#14	13'-3"	—
v361(E)	36	#14	15'-3"	—
v362(E)	108	#14	37'-0"	—
v363(E)	36	#14	39'-0"	—
v364(E)	72	#14	57'-0"	—
Structure Excavation		Cu. Yd.	3.5	
Concrete Structures		Cu. Yd.	122.1	
Reinforcement Bars, Epoxy Coated		Pound	110,270	
Drilled Shaft in Soil		Cu. Yd.	192.7	
Drilled Shaft in Rock		Cu. Yd.	27.8	
Permanent Casing		Lin. Ft.	104	
Mechanical Splicers		Each	216	
Crosshole Sonic Logging		Each	1	

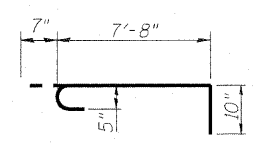
** Length is height of spiral.



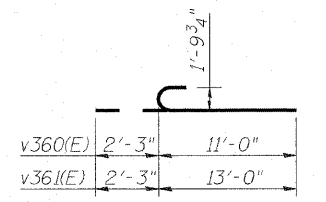
BAR p360(E)



BAR p361(E)



BAR s365(E)



BAR v360(E) & v361(E)



USER NAME =
 PLOT SCALE = 0.166667' / IN.
 PLOT DATE = 8/15/2011

DESIGNED - DDB
 DRAWN - BRD
 CHECKED - LLV
 DATE - 08-12-11

REVISED -
 REVISED -
 REVISED -
 REVISED -

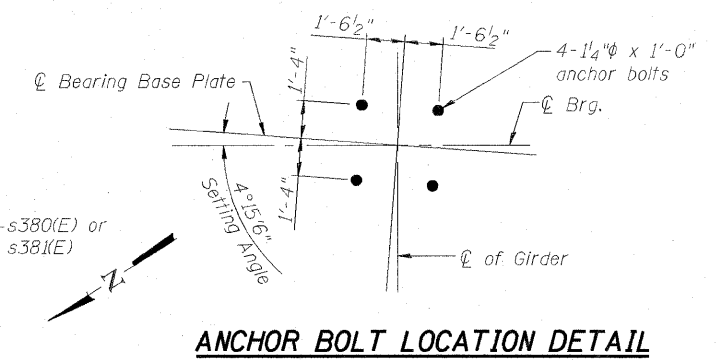
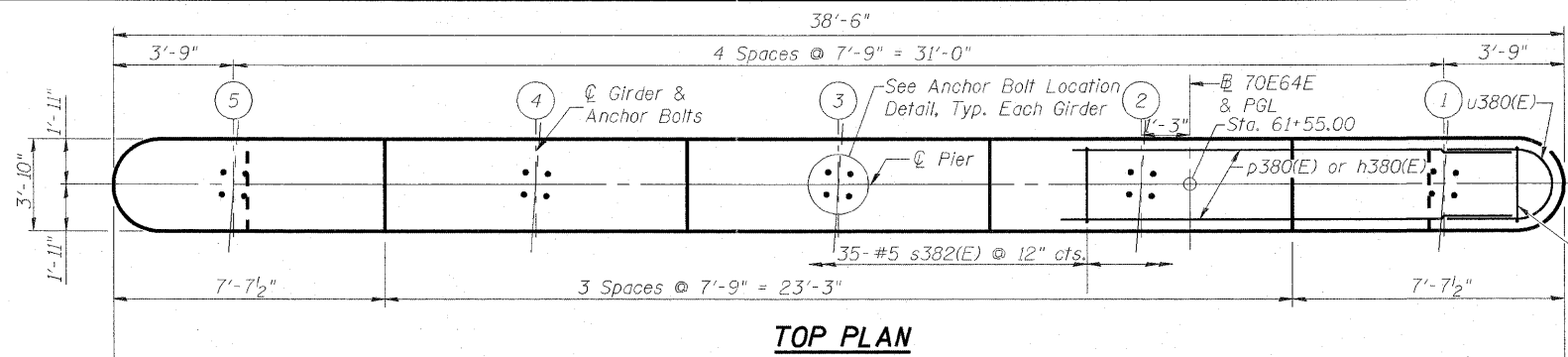
STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION

PIER - S.N. 082-0324 - PIER 4 - PLAN & ELEVATIONS
 I-70E OVER I-55, CSX & KCS RAILROADS

SCALE: SHEET S-181 OF S-234 SHEETS STA. TO STA.

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
70	82-1-B-2	ST. CLAIR	399	308
S.N. 082-0322 & S.N. 082-0324		CONTRACT NO. 76C76		
FED. ROAD DIST. NO.		ILLINOIS FED. AID PROJECT		

- Notes:
1. Space reinforcement in cap to miss anchor bolts.
 2. Four steps monolithically with cap.
 3. For details of piles, see sheet S-187 of S-234.
 4. ϕ of Pier is radial to 70E64E at Sta. 61+55.00.
 5. #5 sp380(E) spiral, each column
 - 1) Provide $1\frac{1}{2}$ extra turns, shop welded together per AWS D1.4 top and bottom. Extend spiral 2" into pier cap & crashwall. Provide 4-#4 spacers or equivalent.
 - 2) When splicing spiral reinforcement is necessary, the spirals shall be provided with $1\frac{1}{2}$ extra turns at the ends to be spliced. These additional turns shall either be welded together according to AWS D1.4, or shall both terminate with a 135° standard hook.
 6. Contractor shall use Mechanical Splicers in columns that will fit between spirals.



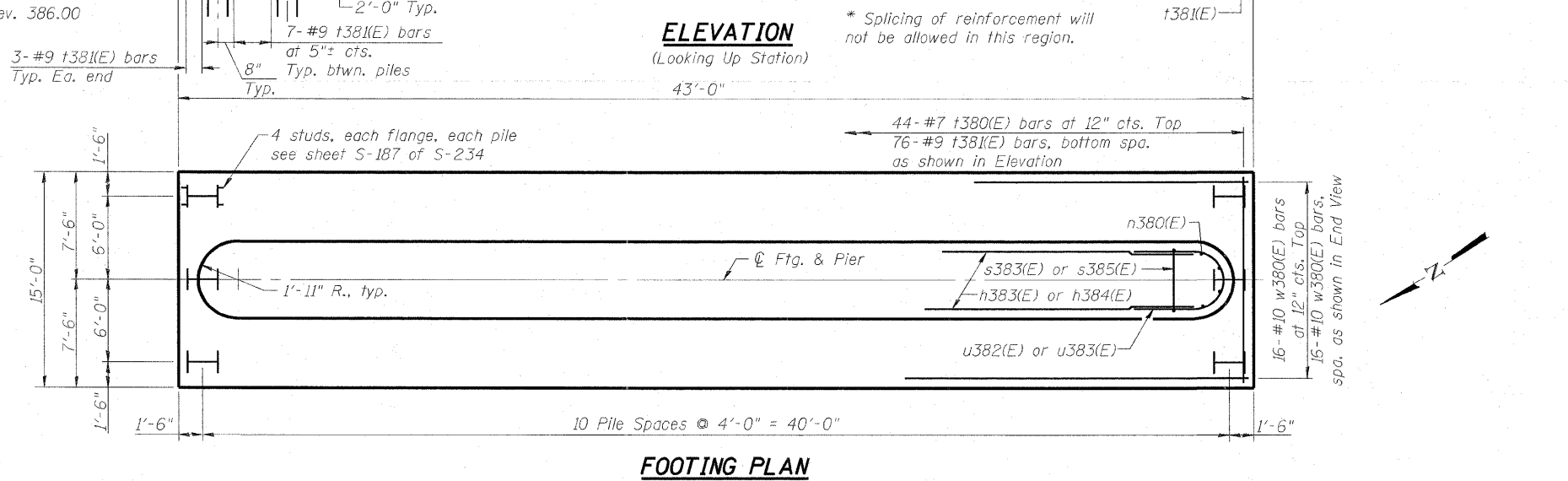
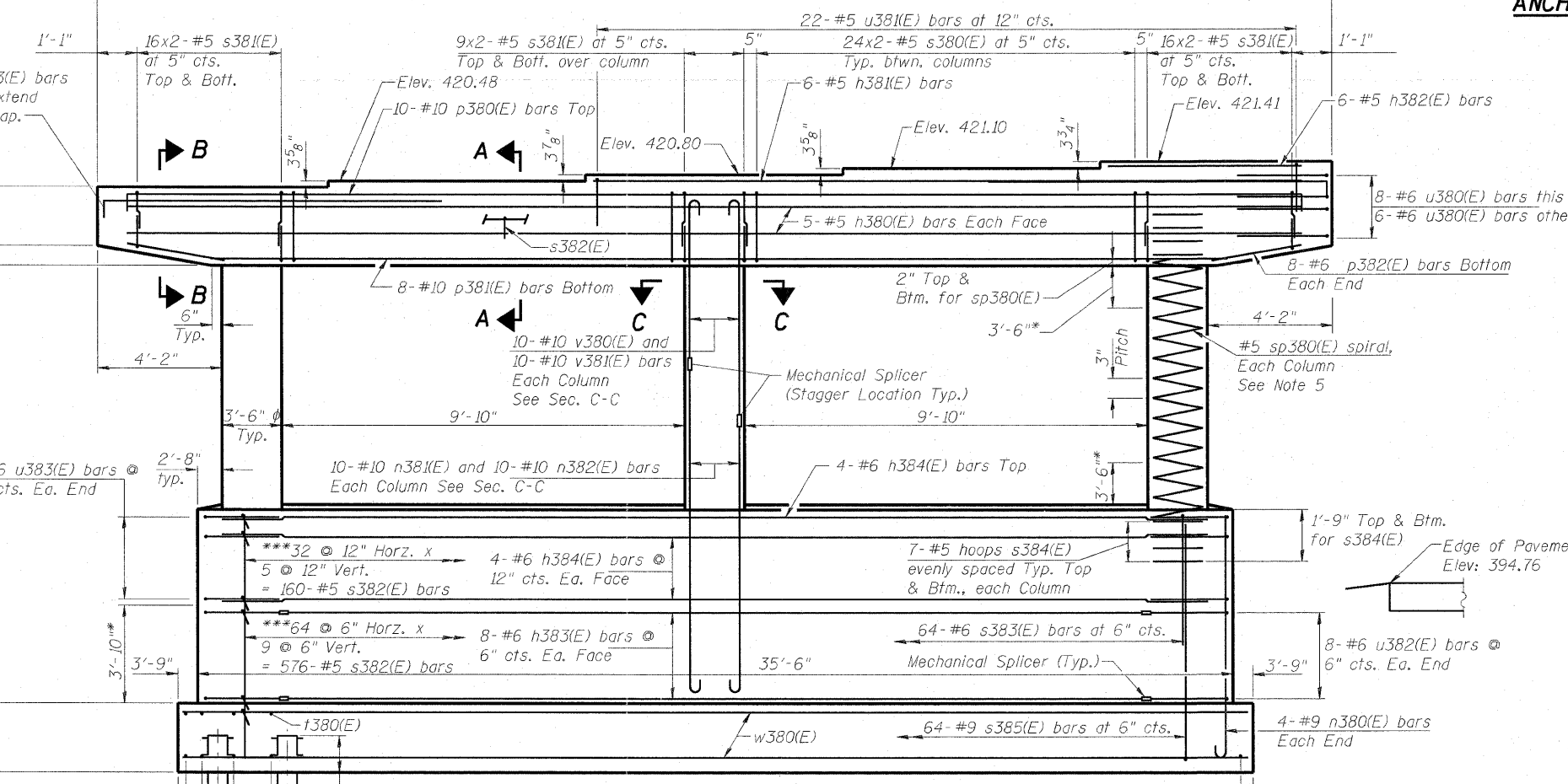
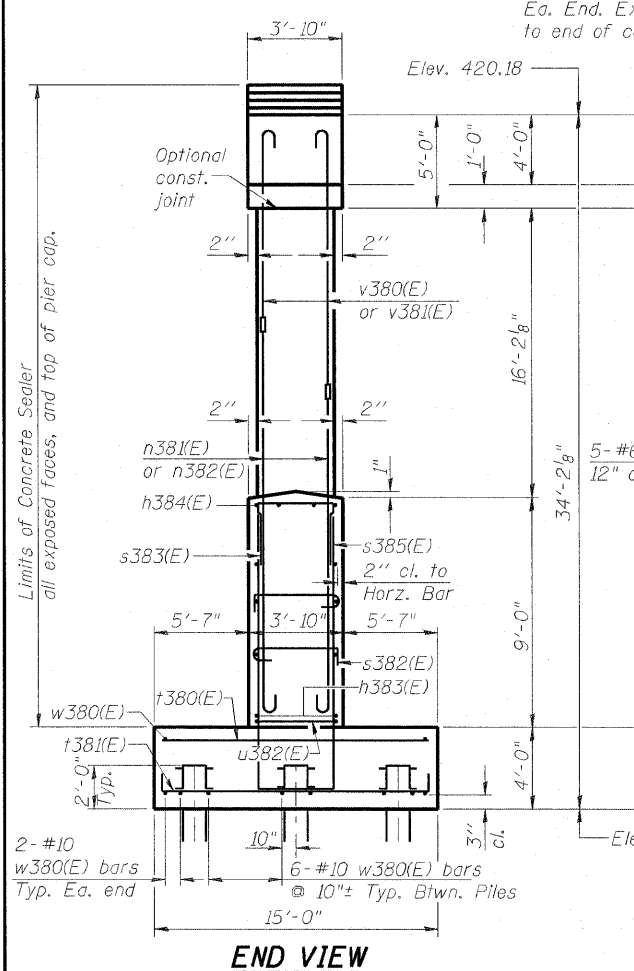
PILE DATA

Type: HP 12x63
 Nominal Required Bearing: 400 kips
 Factored Resistance Available: 200 kips
 Est. Length: 88'
 No. Production Piles: 33
 No. Test Piles: 0

BILL OF MATERIAL

Bar	No.	Size	Length	Shape
h380(E)	10	#5	34'-8"	
h381(E)	6	#5	21'-0"	
h382(E)	6	#5	5'-6"	
h383(E)	16	#6	19'-8"	
h384(E)	12	#6	31'-8"	
n380(E)	8	#9	13'-9"	
n381(E)	30	#10	15'-5"	
n382(E)	30	#10	17'-5"	
p380(E)	10	#10	38'-4"	
p381(E)	8	#10	31'-2"	
p382(E)	16	#6	5'-8"	
p383(E)	10	#10	11'-10"	
s380(E)	96	#5	14'-11"	
s381(E)	164	#5	10'-4"	
s382(E)	771	#5	5'-0"	
s383(E)	64	#6	7'-10"	
s384(E)	42	#5	9'-11"	
s385(E)	64	#9	28'-4"	
** sp380(E)	3	#5	16'-7"	
t380(E)	44	#7	14'-8"	
t381(E)	76	#9	18'-4"	
u380(E)	14	#6	17'-4"	
u381(E)	22	#5	10'-0"	
u382(E)	16	#6	17'-6"	
u383(E)	10	#6	14'-10"	
v380(E)	30	#10	15'-7"	
v381(E)	30	#10	13'-7"	
w380(E)	32	#10	42'-8"	
Structure Excavation		Cu. Yd.	264.6	
Concrete Structures		Cu. Yd.	186.9	
Reinforcement Bars, Epoxy Coated		Pound	43,240	
Furnishing Steel Piles, HP 12x63		Foot	2,904	
Driving Piles		Foot	2,904	
Pile Shoes		Each	33	
Mechanical Splicers		Each	92	
Concrete Sealer		Sq. Ft.	2102	

** Length is height of spiral.
 See next sheet for Bar Details and Sections.



AECOM

USER NAME =
 PLOT SCALE = 0.165667' / IN.
 PLOT DATE = 8/15/2011

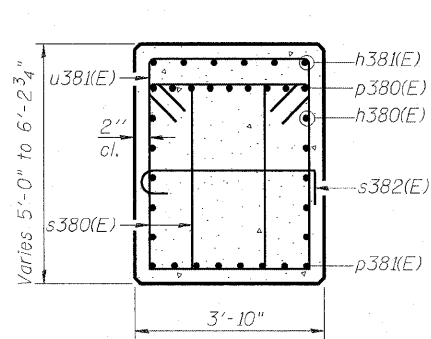
DESIGNED - DDB	REVISIONS -
DRAWN - BRD	REVISIONS -
CHECKED - LLV	REVISIONS -
DATE - 08-12-11	REVISIONS -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

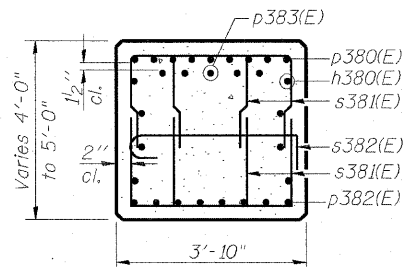
PIER - S.N. 082-0324 - PIER 5 - PLANS & ELEVATIONS
I-70E OVER I-55, CSX & KCS RAILROADS

SCALE: SHEET S-183 OF S-234 SHEETS STA. TO STA.

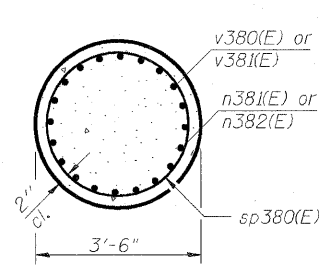
F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
70	82-1-B-2	ST. CLAIR	399	310
S.N. 082-0322 & S.N. 082-0324			CONTRACT NO. 76C76	
FED. ROAD DIST. NO. [ILLINOIS] FED. AID PROJECT				



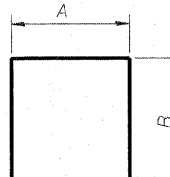
SEC. A-A



SEC. B-B



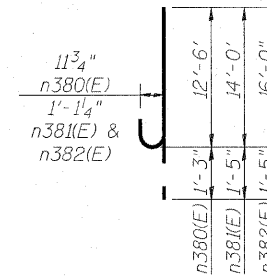
SEC. C-C



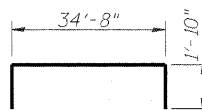
BARS

A & B DIMENSIONS

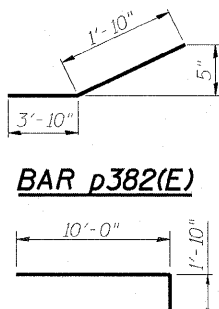
Bar	A	B
s381(E)	2'-4"	4'-0"
s383(E)	3'-4"	2'-3"
s385(E)	3'-4"	12'-6"
t381(E)	14'-8"	1'-10"
u381(E)	3'-6"	3'-3"



BAR n380(E), n381(E) & n382(E)

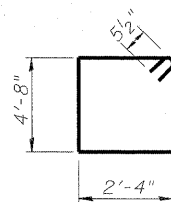


BAR p380(E)

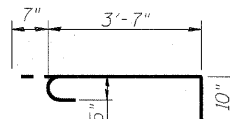


BAR p382(E)

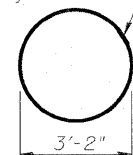
BAR p383(E)



BAR s380(E)

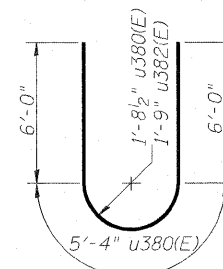


BAR s382(E)

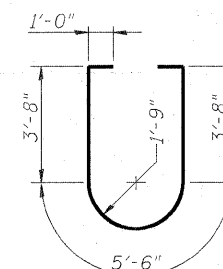


BAR s384(E)

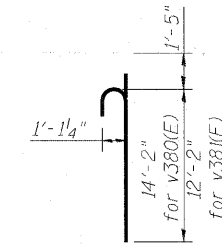
Shop welded per AWS D1.4 or mechanically spliced; cost included in Reinforcement Bars, Epoxy Coated



BARS u380(E) & u382(E)



BAR u383(E)



BAR v380(E) or v381(E)

K:\projects\60046609\082-0322 & 0324 - F.I. over 900.cad\901.dwg\76c081.master_consolidated\structural\082-0322-sheet\082-0324-Flr5-2.dgn



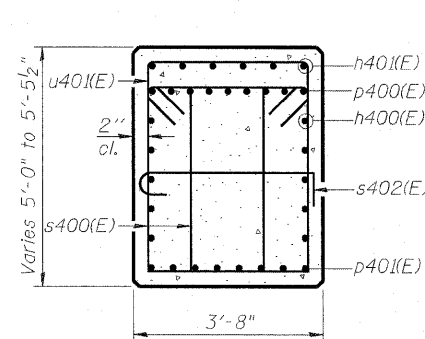
USER NAME =	DESIGNED - DDB	REVISED -
PLOT SCALE = 0.165667' / IN.	DRAWN - BRD	REVISED -
PLOT DATE = 8/15/2011	CHECKED - LLV	REVISED -
	DATE - 08-12-11	REVISED -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

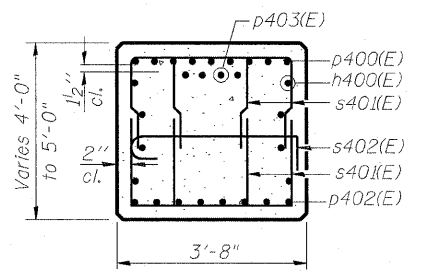
**PIER - S.N. 082-0324 - PIER 5 - DETAILS
I-70E OVER I-55, CSX & KCS RAILROADS**

SCALE: SHEET S-184 OF S-234 SHEETS STA. TO STA.

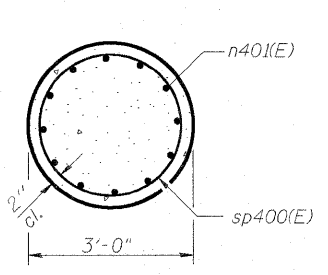
F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
70	82-1-B-2	ST. CLAIR	399	311
S.N. 082-0322 & S.N. 082-0324		CONTRACT NO. 76C76		
FED. ROAD DIST. NO.		ILLINOIS FED. AID PROJECT		



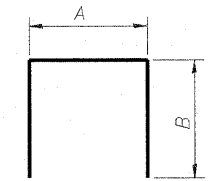
SEC. A-A



SEC. B-B

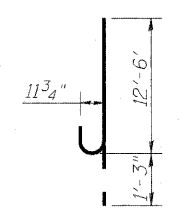


SEC. C-C

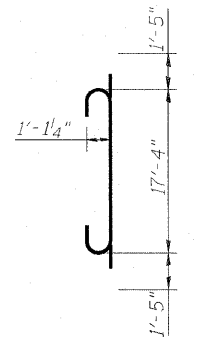


BARS
A & B DIMENSIONS

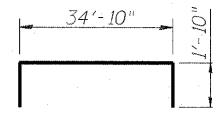
Bar	A	B
s401(E)	2'-0"	4'-0"
s403(E)	3'-2"	2'-3"
s405(E)	3'-2"	13'-0"
t401(E)	14'-8"	1'-10"
u401(E)	3'-4"	3'-0"



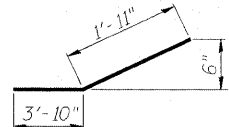
BAR n400(E)



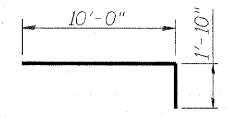
BAR n401(E)



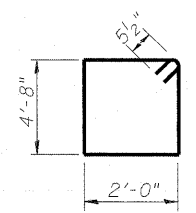
BAR p400(E)



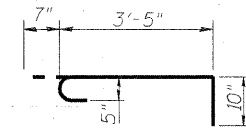
BAR p402(E)



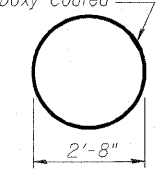
BAR p403(E)



BAR s400(E)

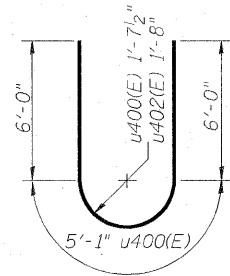


BAR s402(E)

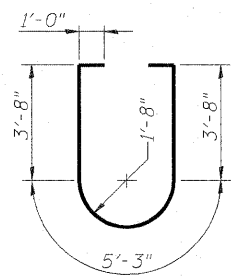


BAR s404(E)

Shop welded per AWS D1.4 or mechanically spliced; cost included in Reinforcement Bars. Epoxy Coated



BARS u400(E) & u402(E)



BAR u403(E)

I:\projects\08246609\m082-0322 & 0324 f:\govern\100\cod\100\drawings\76c76-master_consolidated\structural\082-0322\sheet\082-0324-PIER6-2.dgn



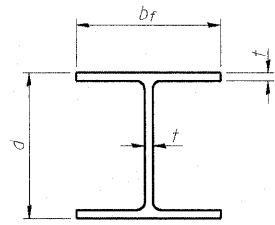
USER NAME =	DESIGNED - DDB	REVISED -
PLOT SCALE = 0.166667' / IN.	DRAWN - BRD	REVISED -
PLOT DATE = 6/30/2011	CHECKED - LLV	REVISED -
	DATE - 07-01-11	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

PIER - S.N. 082-0324 - PIER 6 - DETAILS
I-70E OVER I-55, CSX & KCS RAILROADS

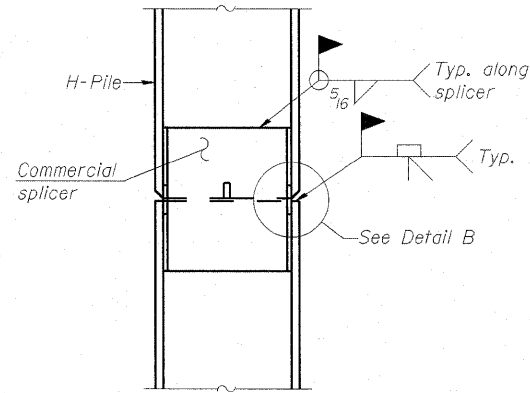
SCALE: SHEET S-186 OF S-234 SHEETS STA. TO STA.

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
70	82-1-B-2	ST. CLAIR	399	313
S.N. 082-0322 & S.N. 082-0324		CONTRACT NO. 76C76		
FED. ROAD DIST. NO.		ILLINOIS FED. AID PROJECT		

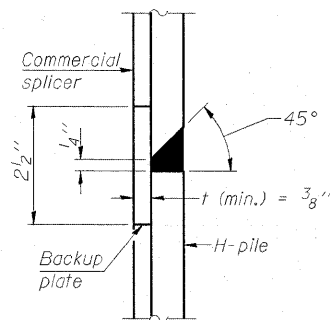


STEEL PILE TABLE

Designation	Depth d	Flange width b _f	Web and Flange thickness t	Encasement diameter A
HP 14x117	14 1/4"	14 7/8"	1 3/16"	30"
x102	14"	14 3/4"	1 1/16"	30"
x89	13 7/8"	14 3/4"	5/8"	30"
x73	13 5/8"	14 5/8"	1/2"	30"
HP 12x84	12 1/4"	12 1/4"	1 1/16"	24"
x74	12 1/8"	12 1/4"	5/8"	24"
x63	12"	12 1/8"	1/2"	24"
x53	11 3/4"	12"	7/16"	24"
HP 10x57	10"	10 1/4"	9/16"	24"
x42	9 3/4"	10 1/8"	7/16"	24"
HP 8x36	8"	8 1/8"	7/16"	18"

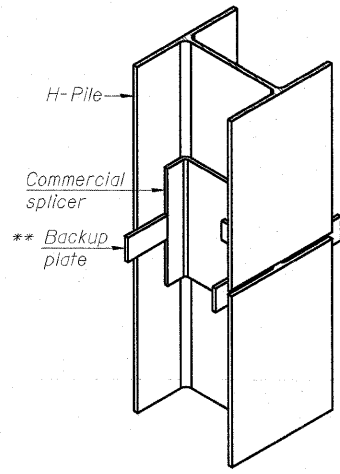


ELEVATION

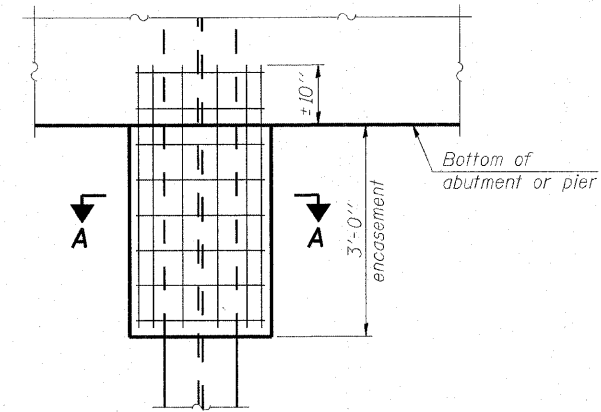


DETAIL "B"

WELDED COMMERCIAL SPLICE

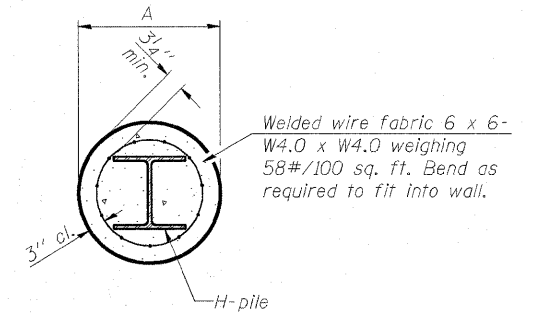


ISOMETRIC VIEW



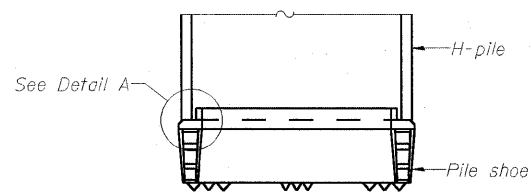
ELEVATION

PILE ENCASEMENT

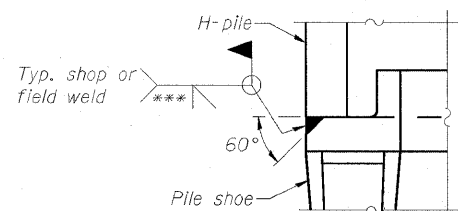


SECTION A-A

Note: Forms for encasement may be omitted when soil conditions permit.

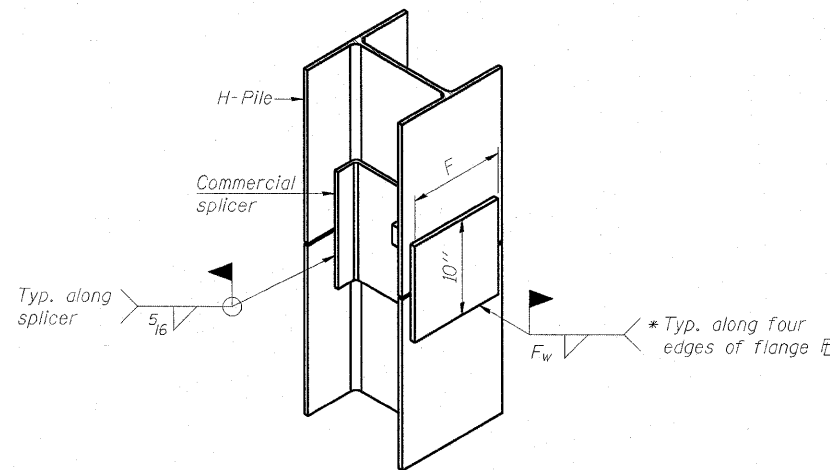


ELEVATION



DETAIL A

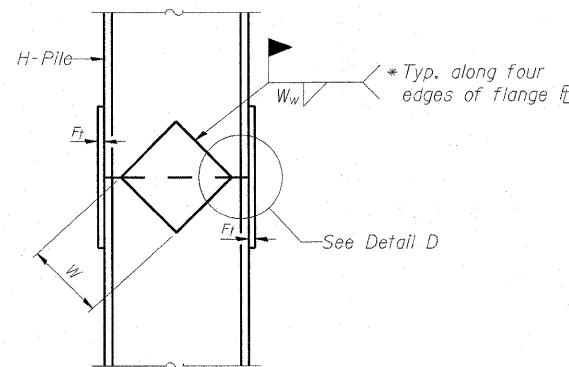
H-PILE SHOE ATTACHMENT



ISOMETRIC VIEW

WELDED COMMERCIAL SPLICE ALTERNATE

- * Interrupt welds 1/4" from end of web and/or each flange.
- ** Remove portions of backup plates that extend outside the flanges.
- *** Weld size per pile shoe manufacturer (5/16" min.).

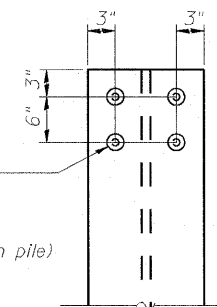


ELEVATION

DETAIL D

WELDED PLATE FIELD SPLICE

Designation	F	F _t	F _w	W	W _t	W _w
HP 14x117	12 1/2"	1"	7/8"	7 3/4"	5/8"	1/2"
x102	12 1/2"	7/8"	3/4"	7 3/4"	5/8"	1/2"
x89	12 1/2"	3/4"	1 1/16"	7 3/4"	5/8"	1/2"
x73	12 1/2"	5/8"	9/16"	7 3/4"	5/8"	1/2"
HP 12x84	10"	7/8"	1 1/16"	6 1/2"	5/8"	1/2"
x74	10"	7/8"	1 1/16"	6 1/2"	5/8"	1/2"
x63	10"	5/8"	1/2"	6 1/2"	1/2"	3/8"
x53	10"	5/8"	1/2"	6 1/2"	1/2"	3/8"
HP 10x57	8"	3/4"	9/16"	5 1/4"	1/2"	3/8"
x42	8"	5/8"	9/16"	5 1/4"	1/2"	3/8"
HP 8x36	7"	5/8"	7/16"	4 1/4"	1/2"	3/8"



STUD DETAIL

4-3/4" ϕ x 4" Granular or solid flux filled headed studs automatically end welded. Cost included with Furnishing Piles. (Typ. each flange, each pile)

Note: The steel H-piles shall be according to AASHTO M270 Grade 50.

I:\projects\60046629\m082-0322 & 0324 - F:\gover\900_cad\301_drawing\76c76-master_consolidated\structure\082-0322-sheet1.dwg



USER NAME =
 PLOT SCALE = 0.2" = 1' / IN.
 PLOT DATE = 6/27/2011

DESIGNED - DDB
 DRAWN - BRD
 CHECKED - LLV
 DATE - 07-01-11

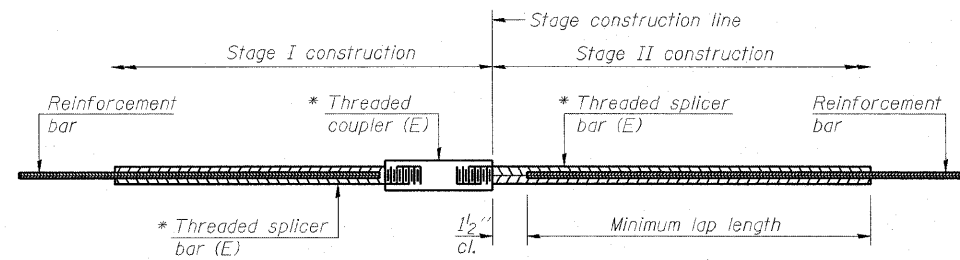
REVISED -
 REVISED -
 REVISED -
 REVISED -

STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION

HP PILE DETAILS
 I-70E OVER I-55, CSX & KCS RAILROADS

SCALE: SHEET S-187 OF S-234 SHEETS STA. TO STA.

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
70	82-1-B-2	ST. CLAIR	399	314
S.N. 082-0322 & S.N. 082-0324		CONTRACT NO. 76C76		
FED. ROAD DIST. NO.		ILLINOIS FED. AID PROJECT		



STANDARD BAR SPLICER ASSEMBLY

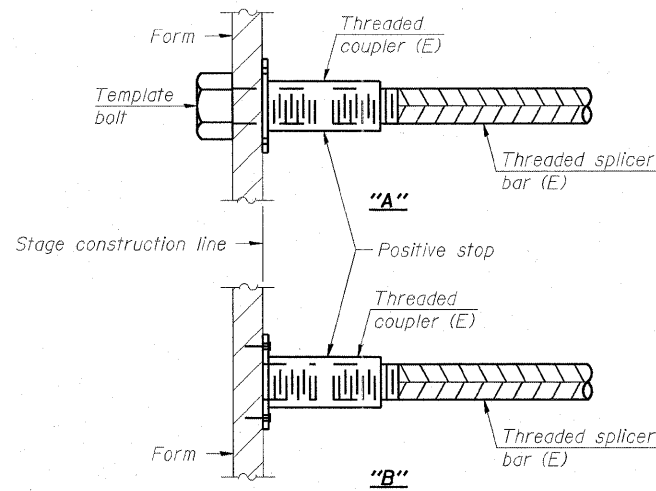
Minimum Lap Lengths					
Bar size to be spliced	Table 1	Table 2	Table 3	Table 4	Table 5
3, 4	1'-5"	1'-11"	2'-1"	2'-4"	2'-3"
5	1'-9"	2'-5"	2'-7"	2'-11"	2'-10"
6	2'-1"	2'-11"	3'-1"	3'-6"	3'-4"
7	2'-9"	3'-10"	4'-2"	4'-8"	4'-6"
8	3'-8"	5'-1"	5'-5"	6'-2"	5'-10"
9	4'-7"	6'-5"	6'-10"	7'-9"	7'-5"

- Table 1: Black bar, 0.8 Class C
- Table 2: Black bar, Top bar lap, 0.8 Class C
- Table 3: Epoxy bar, 0.8 Class C
- Table 4: Epoxy bar, Top bar lap, 0.8 Class C
- Table 5: Epoxy bar, Top bar lap, Class B

Threaded splicer bar length = min. lap length + 1/2" + thread length

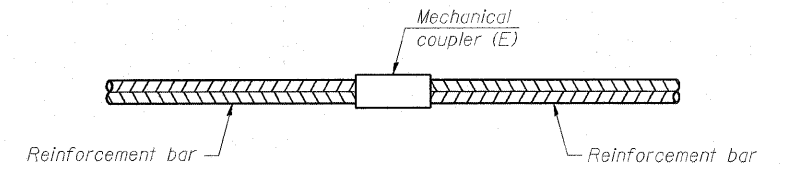
* Epoxy not required on Bar Splicer Assembly components used in conjunction with black bars.

Location	Bar size	No. assemblies required	Table for minimum lap length



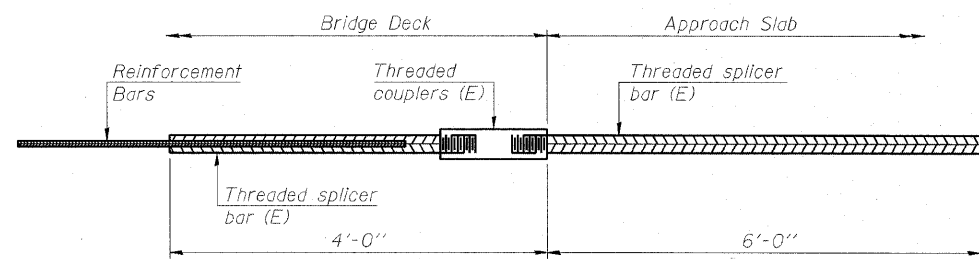
INSTALLATION AND SETTING METHODS

"A" : Set bar splicer assembly by means of a template bolt.
 "B" : Set bar splicer assembly by nailing to wood forms or cementing to steel forms.
 (E) : Indicates epoxy coating.



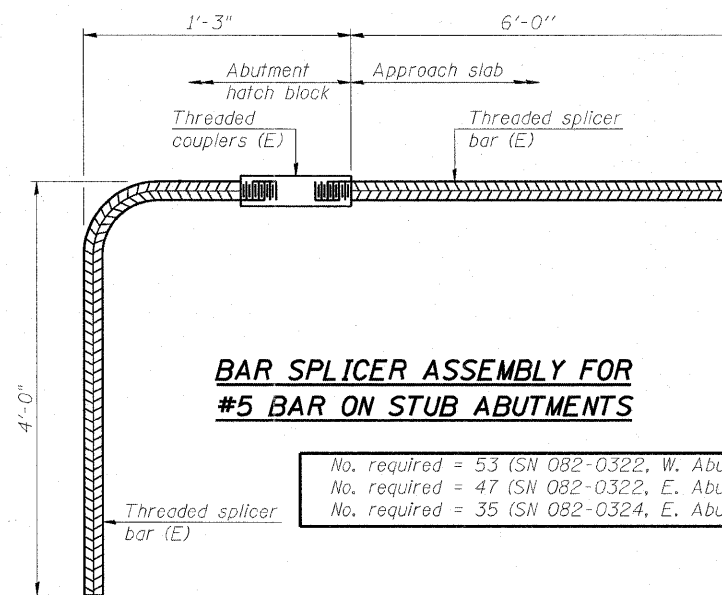
STANDARD MECHANICAL SPLICER

Location	Bar Size	No. assemblies required
Pier 1 (SN 082-0322)	#10	72
Pier 2 (SN 082-0322)	#10	80
Pier 3 (SN 082-0322)	#10	78
Pier 3 (SN 082-0322)	#5	10
Pier 4 (SN 082-0322)	#10	102
Pier 4 (SN 082-0322)	#5	10
Pier 5 (SN 082-0322)	#10	112
Pier 5 (SN 082-0322)	#6	48
Pier 6 (SN 082-0322)	#10	0
Pier 6 (SN 082-0322)	#6	36
Pier 7 (SN 082-0322)	#10	72
Pier 8 (SN 082-0322)	#10	72
Pier 9 (SN 082-0322)	#14	232
Pier 10 (SN 082-0322)	#10	192
Pier 10 (SN 082-0322)	#6	40
Pier 11 (SN 082-0322)	#10	96
Pier 11 (SN 082-0322)	#6	36
Pier 12 (SN 082-0322)	#6	32
Pier 12 (SN 082-0322)	#9	192
Pier 13 (SN 082-0322)	#10	96
Pier 13 (SN 082-0322)	#6	28
Pier 1 (SN 082-0324)	#14	126
Pier 2 (SN 082-0324)	#10	60
Pier 3 (SN 082-0324)	#11	90
Pier 3 (SN 082-0324)	#6	36
Pier 4 (SN 082-0324)	#14	216
Pier 5 (SN 082-0324)	#10	60
Pier 5 (SN 082-0324)	#6	32
Pier 6 (SN 082-0324)	#6	28
TOTAL		2284



BAR SPLICER ASSEMBLY FOR #5 BAR ON INTEGRAL OR SEMI-INTEGRAL ABUTMENTS

No. required = 0



BAR SPLICER ASSEMBLY FOR #5 BAR ON STUB ABUTMENTS

No. required = 53 (SN 082-0322, W. Abut.)
 No. required = 47 (SN 082-0322, E. Abut.)
 No. required = 35 (SN 082-0324, E. Abut.)

NOTES

Splicer bars shall be deformed with threaded ends and have a minimum 60 ksi yield strength.
 All reinforcement shall be lapped and tied to the splicer bars.
 Bar Splicer assemblies shall be epoxy coated according to the requirements for reinforcement bars. See Section 508 of the Standard Specifications.
 See special provision for Mechanical Splicers.
 See approved list of bar splicer assemblies and mechanical splicers for alternatives.

K:\projects\60046695\082-0322 & 0324\1-piper-1900\cad\901_drawing\76020-master-consolidated\structural\082-0322\sheet\082-0322-0324-76C76-SH02-Bar-Splicer.dgn



USER NAME =	DESIGNED - DDB	REVISED -
PLOT SCALE = 0.25" / IN.	DRAWN - BRD	REVISED -
PLOT DATE = 8/15/2011	CHECKED - LLV	REVISED -
	DATE - 08-12-11	REVISED -

STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION

BAR SPLICER ASSEMBLY AND MECHANICAL SPLICER DETAILS
 I-70E OVER I-55, CSX & KCS RAILROADS

SCALE: SHEET S-188 OF S-234 SHEETS STA. TO STA.

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
70	82-1-B-2	ST. CLAIR	399	315
S.N. 082-0322 & S.N. 082-0324			CONTRACT NO. 76C76	
FED. ROAD DIST. NO.			ILLINOIS FED. AID PROJECT	

SHELBY TUBE TEST: B-3 ST (1 of 1)

SHELBY TUBE TEST: B-3A ST (1 of 2)



SHELBY TUBE TEST RESULTS

Page 1 of 1

Date 10/11/00

ROUTE FAP 998		DESCRIPTION Trilevel Interchange		DRILLED BY KJB		TRIAxIAL DATA															
SECTION	82-1	LOCATION East St. Louis, IL, SEC. 12, TWP. 2N, RNG. 10W				S	R	UNIT	S	M	C	P	T								
COUNTY	St. Clair	STRUCT. NO. 082-0322 / 082-0324				DE	CO	WE	ST	MO	CO	PH	TE								
BORING NO. B-3 ST		Station 52+98.8		Ground Surface Elev. 417.8 ft		Tube Length 24 in		Tube Diameter 3 in													
Offset 17ft Left		Begin Sampling Depth 0 ft																			
SOIL TYPE, DESCRIPTION AND OBSERVATIONS													(ft)	(no)	(%)	(pcf)	(tsf)	(%)	(tsf)	(deg)	
Brown, SILTY CLAY with brick/concrete fragments (FILL)													1-1	100				20	0.1	21	CU
Brown, SILTY CLAY with brick/concrete fragments (FILL) (disturbed)													1-2	100							
Brown, SILTY CLAY with brick/concrete fragments (FILL) (disturbed)													1-3	100							
Brown, SILTY CLAY with brick/concrete fragments (FILL) (disturbed)													1-4	83							
Brown and gray, SILTY CLAY (disturbed)													2-1	17							
Brown and gray, SILTY CLAY (disturbed)													2-2	100							
Brown and gray, SILTY CLAY (disturbed)													2-3	100							
Brown and gray, SILTY CLAY													2-4	100	117	5.8	27				Qu
Brown, SILTY CLAY													3-1	100	118	1.8	27				Qu
Brown, SILTY CLAY (disturbed)													3-2	100							
Brown, SILTY CLAY													4-1	100	119		28	0.0	26	CU	
Brown, SILTY CLAY (disturbed)													4-2	100	114		29			Con	
Brown, SILTY CLAY (disturbed)													4-3	100							
Brown, SILTY CLAY (disturbed)													4-4	33							
Brown, SILTY CLAY, trace sand													5-1	100	101		25				
Brown, SILTY CLAY, trace sand (disturbed)													5-2	25							
Brown, SANDY LOAM - No recovery													6-1	0							

The "Unit Weight" column indicates the "wet" or "moist" unit weight of the sample
 The "Strength" column represents the "unconfined compressive" strength of the sample (AASHTO T 208)
 The "Test Type" indicates if Unconsolidated Undrained (UU) or Consolidated Undrained (CU) test procedures (AASHTO T 296 or T 297) were used



SHELBY TUBE TEST RESULTS

Page 1 of 2

Date 11/2/00

ROUTE FAP 998		DESCRIPTION Trilevel Interchange		DRILLED BY KJB		TRIAxIAL DATA															
SECTION	82-1	LOCATION East St. Louis, IL, SEC. 12, TWP. 2N, RNG. 10W				S	R	UNIT	S	M	C	P	T								
COUNTY	St. Clair	STRUCT. NO. 082-0322 / 082-0324				DE	CO	WE	ST	MO	CO	PH	TE								
BORING NO. B-3A ST		Station 52+98.8		Ground Surface Elev. 417.8 ft		Tube Length 24 in		Tube Diameter 3 in													
Offset 17ft Left		Begin Sampling Depth 0 ft																			
SOIL TYPE, DESCRIPTION AND OBSERVATIONS													(ft)	(no)	(%)	(pcf)	(tsf)	(%)	(tsf)	(deg)	
Topsoil													1-1	100							
Topsoil													1-2	100							
Black, SILTY CLAY (FILL)													1-3	100	123	0.9	21				Qu
Black, SILTY CLAY, trace glass (FILL) (disturbed)													1-4	83							
Black, SILTY CLAY, trace roots (FILL)													2-1	100	119	2.0	20				Qu
Black, SILTY CLAY, trace roots (FILL) (disturbed)													2-2	100							
Black, SILTY CLAY, trace roots (FILL) (disturbed)													2-3	17							
Brown CLAY, trace roots (FILL)													3-1	83	122		23				Con
Green and gray CLAY (FILL) (disturbed)													3-2	100							
Green and gray CLAY (FILL) (disturbed)													3-3	100							
Brown, SILTY CLAY (disturbed)													4-1	17							
Brown, SILTY CLAY (disturbed)													4-2	100							
Brown, SILTY CLAY													4-3	100	113	0.9	24				Qu
Brown, SILTY CLAY													4-4	100	111	0.6	28				Qu
Brown, SILTY CLAY													5-1	33							
Greenish brown SILT, trace fine grained sand													6-1	100	112	0.4	32				Qu
Greenish brown SILT, trace fine grained sand													6-2	100	116	0.6	35				Qu
Greenish brown SILT, trace fine grained sand													6-3	100	115	0.6	35				Qu
Greenish brown SILT, trace fine grained sand (disturbed)													6-4	100							
Brown SILT, trace fine grained sand (disturbed)													7-1	33							
Brown SILT, trace fine grained sand													7-2	100	117	0.5	29				Qu

The "Unit Weight" column indicates the "wet" or "moist" unit weight of the sample
 The "Strength" column represents the "unconfined compressive" strength of the sample (AASHTO T 208)
 The "Test Type" indicates if Unconsolidated Undrained (UU) or Consolidated Undrained (CU) test procedures (AASHTO T 296 or T 297) were used

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USER NAME =	DESIGNED - PJL	REVISED -
PLOT SCALE = 0.2" = 1' / IN.	DRAWN - BRD	REVISED -
PLOT DATE = 6/27/2011	CHECKED - DDB	REVISED -
	DATE - 07-01-11	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

BORING LOGS III
I-70E OVER I-55, CSX & KCS RAILROADS

SCALE: SHEET S-192 OF S-234 SHEETS STA. TO STA.

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
70	82-1-B-2	ST. CLAIR	399	319
S.N. 082-0322 & S.N. 082-0324		CONTRACT NO. 76C76		
FED. ROAD DIST. NO.		ILLINOIS FED. AID PROJECT		

SHELBY TUBE TEST: B-3A ST (2 of 2)

SHELBY TUBE TEST: B-3B ST (1 of 1)



SHELBY TUBE TEST RESULTS

Page 2 of 2

Date 11/2/00

ROUTE FAP 998 DESCRIPTION Trilevel Interchange DRILLED BY KB
 SECTION 82-1 LOCATION East St. Louis, IL, SEC. 12, TWP. 2N, RNG. 10W
 COUNTY St. Clair STRUCT. NO. 082-0322 / 082-0324
 Station NA
 BORING NO. B-3A ST
 Station 62+98.8 Ground Surface Elev. 417.6 ft Tube Length 24 in
 Offset 17ft Left Begin Sampling Depth 0 ft Tube Diameter 3 in

SOIL TYPE, DESCRIPTION AND OBSERVATIONS	DEPTH (ft)	SPECIMEN (no)	RECOVER (%)	UNIT WEIGHT (pcf)	STRENGTH (tsf)	TRIAxIAL DATA		
						MOISTURE (%)	COHESION (tsf)	PHI (deg)
Brown and Gray, FINE GRAINED SAND	7-3	100						
Brown and gray SANDY LOAM	7-4	100						
Brown and gray SANDY LOAM	8-1	0						

The "Unit Weight" column indicates the "wet" or "moist" unit weight of the sample
 The "Strength" column represents the "unconfined compressive" strength of the sample (AASHTO T 208)
 The "Test Type" indicates if Unconsolidated Undrained (UU) or Consolidated Undrained (CU) test procedures (AASHTO T 296 or T 297) were used



SHELBY TUBE TEST RESULTS

Page 1 of 1

Date 6/26/01

ROUTE FAP 998 DESCRIPTION Trilevel Interchange DRILLED BY TR
 SECTION 82-1 LOCATION East St. Louis, IL, SEC. 12, TWP. 2N, RNG. 10W
 COUNTY St. Clair STRUCT. NO. 082-0322 / 082-0324
 Station NA
 BORING NO. B-3B ST
 Station 62+98.8 Ground Surface Elev. 417.6 ft Tube Length 24 in
 Offset 17ft Left Begin Sampling Depth 0 ft Tube Diameter 3 in

SOIL TYPE, DESCRIPTION AND OBSERVATIONS	DEPTH (ft)	SPECIMEN (no)	RECOVER (%)	UNIT WEIGHT (pcf)	STRENGTH (tsf)	MOISTURE (%)	COHESION (tsf)	PHI (deg)	TEST TYPE
Dark brown, SILTY CLAY to CLAY with trace cinders (FILL) (disturbed)									
Dark brown, SILTY CLAY (FILL) (disturbed)	1-1	67							Qu
Dark brown, SILTY CLAY (FILL) (disturbed)	1-2	100	114	10	21				
Dark brown, SILTY CLAY (FILL) (disturbed)	1-3	100							
Dark brown, SILTY CLAY (FILL) (disturbed)	1-4	100							
Brown CLAY, trace cinders (disturbed)	2-1	100							
Brown CLAY, trace cinders	2-2	100	117	26	0.0	27			CU
Brown CLAY, trace cinders	2-3	87	117	26					CU
Brown SILT, trace sand	3-1	100	112	29	0.0	22.5			CU
Brown SILT, trace sand	3-2	100	109	28					CU
Brown SILT, trace sand (disturbed)	3-3	17							
Brown, SANDY LOAM	4-1	100							
Brown, FINE GRAINED SAND	4-2	100							
	4-3	100							
	4-4	87							
	5-1	100							
	5-2	100							
	5-3	100							
	5-4	100							

The "Unit Weight" column indicates the "wet" or "moist" unit weight of the sample
 The "Strength" column represents the "unconfined compressive" strength of the sample (AASHTO T 208)
 The "Test Type" indicates if Unconsolidated Undrained (UU) or Consolidated Undrained (CU) test procedures (AASHTO T 296 or T 297) were used

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USER NAME =	DESIGNED - PJL	REVISED -
PLOT SCALE = 0.2" = 1' / IN.	DRAWN - BRD	REVISED -
PLOT DATE = 6/27/2001	CHECKED - DDB	REVISED -
	DATE - 07-01-11	REVISED -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**BORING LOGS IV
I-70E OVER I-55, CSX & KCS RAILROADS**

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
70	82-1-B-2	ST. CLAIR	399	320
S.N. 082-0322 & S.N. 082-0324		CONTRACT NO. 76C76		
FED. ROAD DIST. NO.		ILLINOIS FED. AID PROJECT		

SCALE: SHEET S-193 OF S-234 SHEETS STA. TO STA.

SHELBY TUBE TEST: B-3C ST (1 of 1)

BORING LOG: B-7 (1 of 3)



SHELBY TUBE TEST RESULTS

Page 1 of 1

Date 6/26/01

ROUTE: FAP 998 DESCRIPTION: Trilevel Interchange DRILLED BY: TR

SECTION: 82-1 LOCATION: East St. Louis, IL, SEC. 12, TWP. 2N, RNG. 9W

COUNTY: St. Clair STRUCT. NO.: 082-0322 / 082-0324 Station: NA

BORING NO.: B-3C ST Station: 52+98.8 Ground Surface Elev.: 417.6 ft Tube Length: 24 in Offset: 17ft Left Begin Sampling Depth: 0 ft Tube Diameter: 3 in

SOIL TYPE, DESCRIPTION AND OBSERVATIONS	TRIAxIAL DATA							TEST TYPE	
	DEPTH (ft)	(no)	(%)	(pcf)	(tsf)	(%)	(tsf)		(deg)
Topsoil (FILL)									
Brown, SILTY CLAY to CLAY	1-1	100							
Brown SILT (disturbed)	1-2	100							
Brown SILT, 2" of brown, SILTY CLAY at bottom (disturbed)	1-3	100							
Brown, SILTY CLAY (disturbed)	1-4	67	114	2.0	26				Qu
Brown, SILTY CLAY	2-1	100	120		25				Con
Brown CLAY to brown SAND, trace silt	2-2	100	116		23	0.0	28.8		CU
Brown CLAY to brown SAND, trace silt (disturbed)	2-3	100							
Brown, SANDY LOAM	3-1	100							
	3-2	100							
	3-3	67							
	4-1	50							
Brown, SANDY LOAM	5-1	100							
Brown SANDY LOAM	5-2	100							
Brown SANDY LOAM	5-3	100							
Brown LOAM	5-4	100	118		31				Con
Brown, FINE GRAINED SAND	5-1	100				24			
	6-2	100							
	6-3	100							
	6-4	100							

The "Unit Weight" column indicates the "wet" or "moist" unit weight of the sample
 The "Strength" column represents the "unconfined compressive" strength of the sample (AASHTO T 208)
 The "Test Type" indicates if Unconsolidated Undrained (UU) or Consolidated Undrained (CU) test procedures (AASHTO T 296 or T 297) were used

BMPR FORM 1004A (Rev. 8-99)



SOIL BORING LOG

Page 1 of 3

Date 6/11/01

ROUTE: FAP 998 DESCRIPTION: Trilevel Interchange LOGGED BY: BEC

SECTION: 82-1 LOCATION: East St. Louis, IL, SEC. 7, TWP. 2N, RNG. 9W

COUNTY: St. Clair DRILLING METHOD: Hollow Stem Auger and Mud Rotary HAMMER TYPE: Automatic Hammer

STRUCT. NO. Station	BORING NO. Station Offset	Ground Surface Elev.	D (ft)	B (/6")	U (tsf)	M (%)	Surface Water Elev.	Stream Bed Elev.	Groundwater Elev.:	First Encounter	Upon Completion	After ** Hrs.	D (ft)	L (/6")	U (tsf)	M (%)
082-0370 NA	B-7 79+35 9.00ft Right	384.00					Unknown	Unknown	**	**	**					
Asphalt with gravel/crushed limestone (fill) - 12 inches							383.00									
FINE GRAINED SAND with gravel/crushed limestone and asphalt (FILL)							381.00	11								
Brown, SILTY LOAM							378.50	5								
								6								
								2	0.1	21						
								1								
								1								
								3								
Very loose, brown, MEDIUM GRAINED SAND with some COARSE GRAINED SAND Start Mud Rotary @ 6'							373.50									
								2								
								1								
								3								
								1								
								3								
								10								
								12								
								5								
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The Unconfined Compressive Strength (UCS) Failure Mode is indicated by (B-Bulge, S-Shear, P-Penetrometer)
 The SPT (N value) is the sum of the last two blow values in each sampling zone (AASHTO T206)
 * Rimac not measured due to sample disturbance
 ** Not measured due to drilling methods used

BBS, from 137 (Rev. 8-99)



USER NAME =	DESIGNED - PJL	REVISED -
PLOT SCALE = 1/4" = 1' / IN.	DRAWN - BRD	REVISED -
PLOT DATE = 6/27/2001	CHECKED - DDB	REVISED -
	DATE - 07-01-11	REVISED -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**BORING LOGS V
I-70E OVER I-55, CSX & KCS RAILROADS**

SCALE: SHEET S-194 OF S-234 SHEETS STA. TO STA.

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
70	82-1-B-2	ST. CLAIR	399	321
S.N. 082-0322 & S.N. 082-0324		CONTRACT NO. 76C76		
FED. ROAD DIST. NO.		ILLINOIS FED. AID PROJECT		

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SHELBY TUBE TEST: B-11 ST (1 of 2)

SHELBY TUBE TEST: B-11 ST (2 of 2)



SHELBY TUBE TEST RESULTS

Page 1 of 2
Date 2/21/01

ROUTE FAP 998 DESCRIPTION Trilevel Interchange DRILLED BY PG

SECTION 82-1 LOCATION East St. Louis, IL, SEC. 7, TWP. 2N, RNG. 9W

COUNTY St. Clair STRUCT. NO. 082-0322

Station 75+50.48 Ground Surface Elev. 416.9 ft Tube Length 24 in

Offset 24ft Left Begin Sampling Depth -1 ft Tube Diameter 3 in

SOIL TYPE, DESCRIPTION AND OBSERVATIONS	TRIAxIAL DATA						
	DEPTH (ft)	(no)	(%)	(pcf)	(tsf)	(%)	(tsf) (deg)
Brown, SANDY LOAM (FILL)	1-1	100					
Brown, SANDY LOAM (FILL)	1-2	100					
Brown, CLAY (FILL) (disturbed)	2-1	58					
Brown, CLAY (FILL)	2-2	100	118	1.6	30		Qu
Brown, SILTY CLAY (FILL) (disturbed)	3-1	50					
Brown, SILTY CLAY (FILL)	3-2	100	113	1.1	26		Qu
Brown CLAY (FILL) (disturbed)	3-3	100			37		
Reddish brown, SILTY CLAY (FILL)	4-1	100	112	1.0	36		Qu
Reddish brown, SILTY CLAY (FILL) (disturbed)	4-2	100					
Greenish brown, SILTY to SANDY LOAM	4-3	67					
Brown CLAY LOAM (disturbed)	5-1	50					
Brown CLAY LOAM (disturbed)	5-2	100					
Brown CLAY LOAM	5-3	100	114	0.6	34		Qu
Greenish brown, SILTY LOAM (disturbed)	6-1	83					
Greenish brown, SILTY LOAM (disturbed)	6-2	100					
Brown, silty CLAY, trace clay	6-3	100	116		36		Con
Brown, SILTY CLAY	6-4	100	114		33	0.0	32.6 CU
Brown, FINE GRAINED SAND	7-1	100					
	7-2	100					

The "Unit Weight" column indicates the "wet" or "moist" unit weight of the sample
 The "Strength" column represents the "unconfined compressive" strength of the sample (AASHTO T 208)
 The "Test Type" indicates if Unconsolidated Undrained (UU) or Consolidated Undrained (CU) test procedures (AASHTO T 296 or T 297) were used



SHELBY TUBE TEST RESULTS

Page 2 of 2
Date 2/21/01

ROUTE FAP 998 DESCRIPTION Trilevel Interchange DRILLED BY PG

SECTION 82-1 LOCATION East St. Louis, IL, SEC. 7, TWP. 2N, RNG. 9W

COUNTY St. Clair STRUCT. NO. 082-0322

Station 75+50.48 Ground Surface Elev. 416.9 ft Tube Length 24 in

Offset 24ft Left Begin Sampling Depth -1 ft Tube Diameter 3 in

SOIL TYPE, DESCRIPTION AND OBSERVATIONS	TRIAxIAL DATA						
	DEPTH (ft)	(no)	(%)	(pcf)	(tsf)	(%)	(tsf) (deg)
	7-3	100					
	7-4	100					
Brown and gray CLAY LOAM (disturbed)	8-1	83					
Brown and gray CLAY LOAM	8-2	100	113	0.7	25		Qu
Brown, SILT LOAM (disturbed)	8-3	100					

The "Unit Weight" column indicates the "wet" or "moist" unit weight of the sample
 The "Strength" column represents the "unconfined compressive" strength of the sample (AASHTO T 208)
 The "Test Type" indicates if Unconsolidated Undrained (UU) or Consolidated Undrained (CU) test procedures (AASHTO T 296 or T 297) were used

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USER NAME =	DESIGNED - PJL	REVISED -
PLOT SCALE = 0.2" = 1' / IN.	DRAWN - BRD	REVISED -
PLOT DATE = 6/27/2011	CHECKED - DDB	REVISED -
	DATE - 07-01-11	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

BORING LOGS IX
I-70E OVER I-55, CSX & KCS RAILROADS

SCALE: SHEET S-198 OF S-234 SHEETS STA. TO STA.

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
70	82-1-B-2	ST. CLAIR	399	325
S.N. 082-0322 & S.N. 082-0324		CONTRACT NO. 76C76		
FED. ROAD DIST. NO.		ILLINOIS FED. AID PROJECT		

BORING LOG: B-16 (Page 4 of 4)

Page 4 of 4
Date 2/20/01

Illinois Department of Transportation
Division of Highways
Geotechnology, Inc.

SOIL BORING LOG

ROUTE FAP 998 DESCRIPTION Trilevel Interchange LOGGED BY BEC

SECTION 82-1 LOCATION East St. Louis, IL, SEC. 7, TWP. 2N, RNG. 9W

COUNTY St. Clair DRILLING METHOD HSA with MR DRILL RIG/
HAMMER EFFICIENCY Automatic Hammer

STRUCT. NO. <u>082-0322</u>	D	B	U	M	Surface Water Elev. <u>Unknown</u> ft	
Station <u>NA</u>	E	L	C	S	Stream Bed Elev. <u>Unknown</u> ft	
BORING NO. <u>B-16</u>	T	O	S	Q	Groundwater Elev.:	
Station <u>64+49.44</u>	H	W	S	u	First Encounter <u>∞</u> ft	
Offset <u>24ft Left</u>					Upon Completion <u>**</u> ft	
Ground Surface Elev. <u>416.1</u> ft	(ft)	(#)	(%)	(tsf)	After <u>**</u> Hrs. <u>**</u> ft	

CRYSTALLINE LIMESTONE -
See Rock Core Log (continues)

End of Boring

The Unconfined Compressive Strength (UCS) Failure Mode is indicated by (B-Bulge, S-Shear, P-Penetrometer)
The SPT (N value) is the sum of the last two blow values in each sampling zone (AASHTO T206)

* Rimac attempted, not measured due to sample disturbance
** Not measured due to drilling methods used

BBS, form 137 (Rev. 8-85)

ROCK CORE LOG: B-16 CORE (Page 1 of 1)

Page 1 of 1
Date 2/20/01

Illinois Department of Transportation
Division of Highways
Geotechnology, Inc.

ROCK CORE LOG

ROUTE FAP 998 DESCRIPTION Trilevel Interchange LOGGED BY BEC

SECTION 82-1 LOCATION East St. Louis, IL, SEC. 7, TWP. 2N, RNG. 9W

COUNTY St. Clair CORING METHOD Wireline

STRUCT. NO. <u>082-0322</u>	CORING BARREL TYPE & SIZE <u>NX (2.985 in.)</u>	D	C	R	R	C	C	S
Station <u>NA</u>	Core Diameter <u>2</u> in	E	O	E	Q	C	O	T
BORING NO. <u>B-16 Core</u>	Top of Rock Elev. <u>299.6</u> ft	P	R	C	D	O	R	R
Station <u>64+49.44</u>	Begin Core Elev. <u>299.6</u> ft	T	E	O	E	E	E	E
Offset <u>24ft Left</u>		H	R	R				
Ground Surface Elev. <u>416.1</u> ft		(ft)	(#)	(%)	(%)	(min/ft)	(tsf)	

LIMESTONE, hard, gray, micritic, massive, with chert inclusions and occasional stylolites, fresh to slightly weathered with some discoloration along stylolites, broken from 116.5' - 117' with deposits of white clay along breaks

End of Boring

Color pictures of the cores Yes
Cores will be stored for examination until September 1, 2002
The "Strength" column represents the uniaxial compressive strength of the core sample (ASTM D-2938)
BBS, form 138 (Rev. 8-85)

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USER NAME =	DESIGNED - P.J.L.	REVISED -
PLOT SCALE = 0.2" = 1' / IN.	DRAWN - BRD	REVISED -
PLOT DATE = 6/27/2011	CHECKED - DDB	REVISED -
	DATE - 07-01-11	REVISED -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

BORING LOGS XIV	
I-70E OVER I-55, CSX & KCS RAILROADS	
SCALE:	SHEET 5-203 OF 5-234 SHEETS STA. TO STA.

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
70	82-1-B-2	ST. CLAIR	399	330
S.N. 082-0322 & S.N. 082-0324		CONTRACT NO. 76C76		
FED. ROAD DIST. NO.		ILLINOIS FED. AID PROJECT		

SHELBY TUBE TEST: B-16 ST (1 of 2)

SHELBY TUBE TEST: B-16 ST (2 of 2)



SHELBY TUBE TEST RESULTS

Page 1 of 2

Date 2/21/01

ROUTE FAP 998 DESCRIPTION Trilevel Interchange DRILLED BY PG

SECTION 82-1 LOCATION East St. Louis, IL, SEC. 7, TWP. 2N, RNG. 9W

COUNTY St. Clair STRUCT. NO. 082-0322

Station NA

BORING NO. B-16 ST

Station 416+91 Ground Surface Elev. 416.1 ft Tube Length 24 in

Offset 28ft Right Begin Sampling Depth -1 ft Tube Diameter 3 in

DEPTH (ft)	SOIL TYPE, DESCRIPTION AND OBSERVATIONS							TRIAXIAL DATA						
	(no)	(%)	(pcf)	(tsf)	(%)	(tsf)	(deg)	(no)	(%)	(pcf)	(tsf)	(deg)		
1-1	0													
2-1	0													
3-1	0													
4-1	79													
5-1	0													
6-1	100													
6-2	100													
7-1	0													

The "Unit Weight" column indicates the "wet" or "moist" unit weight of the sample
 The "Strength" column represents the "unconfined compressive" strength of the sample (AASHTO T 208)
 The "Test Type" indicates if Unconsolidated Undrained (UU) or Consolidated Undrained (CU) test procedures (AASHTO T 296 or T 297) were used

BMPR FORM 1004A (Rev. 8-99)



SHELBY TUBE TEST RESULTS

Page 2 of 2

Date 2/21/01

ROUTE FAP 998 DESCRIPTION Trilevel Interchange DRILLED BY PG

SECTION 82-1 LOCATION East St. Louis, IL, SEC. 7, TWP. 2N, RNG. 9W

COUNTY St. Clair STRUCT. NO. 082-0322

Station NA

BORING NO. B-16 ST

Station 416+91 Ground Surface Elev. 416.1 ft Tube Length 24 in

Offset 28ft Right Begin Sampling Depth -1 ft Tube Diameter 3 in

DEPTH (ft)	SOIL TYPE, DESCRIPTION AND OBSERVATIONS							TRIAXIAL DATA						
	(no)	(%)	(pcf)	(tsf)	(%)	(tsf)	(deg)	(no)	(%)	(pcf)	(tsf)	(deg)		
8-1	100													
9-1	98													
9-2		127			19	0.2	18.8							
9-3					22									
9-4														
10-1	100													
11-1	100					20								
12-1	83					21								
12-2	100													
12-3	100													

The "Unit Weight" column indicates the "wet" or "moist" unit weight of the sample
 The "Strength" column represents the "unconfined compressive" strength of the sample (AASHTO T 208)
 The "Test Type" indicates if Unconsolidated Undrained (UU) or Consolidated Undrained (CU) test procedures (AASHTO T 296 or T 297) were used

BMPR FORM 1004A (Rev. 8-99)

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USER NAME =	DESIGNED - P.J.L.	REVISED -
PLOT SCALE = 0.2" = 1' / IN.	DRAWN - BRD	REVISED -
PLOT DATE = 5/27/2011	CHECKED - DDB	REVISED -
	DATE - 07-01-11	REVISED -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**BORING LOGS XV
I-70E OVER I-55, CSX & KCS RAILROADS**

SCALE: SHEET S-204 OF S-234 SHEETS STA. TO STA.

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
70	82-1-B-2	ST. CLAIR	399	331
S.N. 082-0322 & S.N. 082-0324		CONTRACT NO. 76C76		
FED. ROAD DIST. NO.		ILLINOIS FED. AID PROJECT		

BORING LOG: B-17 (4 of 4)

ROCK CORE LOG: B-17 CORE (1 of 1)

BORING LOG: RW-69 (1 of 1)



Illinois Department of Transportation
Division of Highways
Geotechnical, Inc.

SOIL BORING LOG

Page 4 of 4

Date 12/4/00

ROUTE FAP 998 DESCRIPTION Trilevel Interchange LOGGED BY BEC/JCB
SECTION 82-1 LOCATION East St. Louis, IL, SEC. 7, TWP. 2N, RNG. 9W
COUNTY St. Clair DRILLING METHOD HSA with MR HAMMER TYPE Automatic Hammer

STRUCT. NO. 082-0324 SURFACE WATER ELEV. Unknown ft
Station NA Stream Bed Elev. Unknown ft
BORING NO. B-17 GROUNDWATER ELEV.:
Station 63+72.12 First Encounter ** ft
Offset 75.18ft Right Upon Completion ** ft
Ground Surface Elev. 415.60 ft After ** Hrs. ** ft

DEPTH (ft)	BULGE (in)	WATER (%)	UNSAT. (%)	MOIST. (%)	DESCRIPTION
0					CRYSTALLINE LIMESTONE - See Rock Core Log (continued)
292.60					End of Boring
-125					
-130					
-135					
-140					

The Unconfined Compressive Strength (UCS) Failure Mode is indicated by (B-Bulge, S-Shear, P-Penetrometer)
The SPT (N value) is the sum of the last two blow values in each sampling zone (AASHTO T208)
* Rimac not measured due to sample disturbance BBS, from 137 (Rev. 8-99)
** Not measured due to drilling methods used



Illinois Department of Transportation
Division of Highways
Geotechnical, Inc.

ROCK CORE LOG

Page 1 of 1

Date 12/4/00

ROUTE FAP 998 DESCRIPTION Trilevel Interchange LOGGED BY BEC/JCB
SECTION 82-1 LOCATION East St. Louis, IL, SEC. 7, TWP. 2N, RNG. 9W
COUNTY St. Clair CORING METHOD Wireline

STRUCT. NO. 082-0324 CORING BARREL TYPE & SIZE NX (2.985 in.)
Station NA
BORING NO. B-17 Core Core Diameter 2 in
Station 63+72.12 Top of Rock Elev. 302.10 ft
Offset 75.18ft Right Begin Core Elev. 302.10 ft
Ground Surface Elev. 415.60 ft

DEPTH (ft)	RECOVERY (%)	QUANTITY (%)	CORE DIAMETER (in)	STRENGTH (tsf)	DESCRIPTION
0	99	99	2.8		LIMESTONE, light gray to gray, finely to medium crystalline, fresh to slightly weathered, occasional horizontal fractures, with weathering along fractures, moderately hard, fossiliferous from 114' - 116'
118					Clay parting at 118'
120	96	96	2.8		LIMESTONE, light gray to gray, finely to medium crystalline, fresh to slightly weathered, occasional horizontal fractures, with weathering along fractures, moderately hard, becoming greenish-gray and shaly at 122.75'
122.75					Clay parting at 122'
129.60					End of Boring
-125					
-130					
-135					
-140					

Color pictures of the cores Yes
Cores will be stored for examination until September 1, 2002
The "Strength" column represents the uniaxial compressive strength of the core sample (ASTM D-2938)
BBS, form 138 (Rev. 8-99)



Illinois Department of Transportation
Division of Highways
Geotechnical, Inc.

SOIL BORING LOG

Page 1 of 1

Date 4/3/02

ROUTE FAP 998 DESCRIPTION Trilevel Interchange LOGGED BY KMP
SECTION 82-1 LOCATION East St. Louis, IL, SEC. 7, TWP. 2N, RNG. 9W
COUNTY St. Clair DRILLING METHOD HSA with MR DRILL RIG/
HAMMER EFFICIENCY Automatic Hammer

STRUCT. NO. 082-0324 SURFACE WATER ELEV. Unknown ft
Station NA Stream Bed Elev. Unknown ft
BORING NO. RW-69 GROUNDWATER ELEV.:
Station 63+69.1 First Encounter 403.9 ft
Offset 5ft Left Upon Completion ** ft
Ground Surface Elev. 414.9 ft After ** Hrs. ** ft

DEPTH (ft)	BULGE (in)	WATER (%)	UNSAT. (%)	MOIST. (%)	DESCRIPTION
0					Topsoil - 12 inches
413.9					Medium stiff, gray, SILTY CLAY (continued)
2					Medium stiff, brown, SILTY LOAM
3					Medium dense, brown, SANDY LOAM
4					See Gradation Test Results
5					Medium dense, brown, FINE GRAINED SAND
6					See Gradation Test Results
7					Soft to medium stiff, brown, SILT
8					End of Boring
9					See Gradation Test Results
10					
11					
12					
13					
14					
15					
16					
17					
18					
19					
20					
21					
22					
23					
24					
25					
26					
27					
28					
29					
30					
31					
32					
33					
34					
35					
36					
37					
38					
39					
40					

The Unconfined Compressive Strength (UCS) Failure Mode is indicated by (B-Bulge, S-Shear, P-Penetrometer)
The SPT (N value) is the sum of the last two blow values in each sampling zone (AASHTO T208)
* Rimac attempted, not measured due to sample disturbance BBS, from 137 (Rev. 8-99)
** Not measured due to drilling methods used

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USER NAME =	DESIGNED - P.J.L.	REVISED -
PLOT SCALE = 0.2" = 1' / IN.	DRAWN - BRD	REVISED -
PLOT DATE = 6/27/2011	CHECKED - DDB	REVISED -
	DATE - 07-01-11	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

BORING LOGS XVII
I-70E OVER I-55, CSX & KCS RAILROADS

SCALE: SHEET S-206 OF S-234 SHEETS STA. TO STA.

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
70	82-1-B-2	ST. CLAIR	399	333
S.N. 082-0322 & S.N. 082-0324		CONTRACT NO. 76C76		
FED. ROAD DIST. NO.		ILLINOIS FED. AID PROJECT		

BORING LOG: B-404 (1 of 4)



Illinois Department of Transportation
Division of Highways
Geotechnology, Inc.

SOIL BORING LOG

Page 1 of 4
Date 4/17/09

ROUTE FAP 998 DESCRIPTION Trilevel Interchange LOGGED BY DTC
SECTION 82-1 LOCATION East St. Louis, IL, SEC. 12, TWP. 2N, RNG. 10W
COUNTY St. Clair DRILLING METHOD HSA with MR HAMMER TYPE CME 75 / 80%

STRUCT. NO.	Station	DEPTH (ft)	BLOW (blows/6")	UCS (tsf)	MOISTURE (%)	DESCRIPTION	DEPTH (ft)	BLOW (blows/6")	UCS (tsf)	MOISTURE (%)
082-0322	NA					Surface Water Elev. <u>Unknown</u> ft				
						Stream Bed Elev. <u>Unknown</u> ft				
B-404	53+44.25					Groundwater Elev.: First Encounter <u>**</u> ft				
	Offset <u>18.65ft Right</u>					Upon Completion <u>**</u> ft				
	Ground Surface Elev. <u>418.57</u> ft					After <u>**</u> Hrs. <u>**</u> ft				
		418.07	2			Medium dense, brownish gray, FINE GRAINED SAND (continued)	11			
			3	24			12			
			3				8			
		415.57	2			Medium stiff, brown, SILTY CLAY (FILL)	7			
			2	27			19			
			4				10			
			4				14			
		413.07	2			Medium stiff, brown, SILTY LOAM	10			
			3	25			8			
			4				10			
			2				9			
			3	17			11			
			3				13			
			3				14			
		405.57	3			Medium dense, brownish gray, FINE GRAINED SAND	9			
			4				11			
			7				16			
			3				14			
			4				16			
			5				19			
		382.57	3			Medium dense, brownish gray, FINE TO MEDIUM GRAINED SAND				
			4							
			5							
			4			See attached grain size distribution	9			
			6				11			
			7				16			

The Unconfined Compressive Strength (UCS) Failure Mode is indicated by (B-Bulge, S-Shear, P-Penetrometer)
The SPT (N value) is the sum of the last two blow values in each sampling zone (AASHTO T206)
* Rimac not measured due to sample disturbance BBS, from 137 (Rev. 8-99)
** Not measured due to drilling methods used

BORING LOG: B-404 (2 of 4)



Illinois Department of Transportation
Division of Highways
Geotechnology, Inc.

SOIL BORING LOG

Page 2 of 4
Date 4/17/09

ROUTE FAP 998 DESCRIPTION Trilevel Interchange LOGGED BY DTC
SECTION 82-1 LOCATION East St. Louis, IL, SEC. 12, TWP. 2N, RNG. 10W
COUNTY St. Clair DRILLING METHOD HSA with MR HAMMER TYPE CME 75 / 80%

STRUCT. NO.	Station	DEPTH (ft)	BLOW (blows/6")	UCS (tsf)	MOISTURE (%)	DESCRIPTION	DEPTH (ft)	BLOW (blows/6")	UCS (tsf)	MOISTURE (%)
082-0322	NA					Surface Water Elev. <u>Unknown</u> ft				
						Stream Bed Elev. <u>Unknown</u> ft				
B-404	53+44.25					Groundwater Elev.: First Encounter <u>**</u> ft				
	Offset <u>18.65ft Right</u>					Upon Completion <u>**</u> ft				
	Ground Surface Elev. <u>418.57</u> ft					After <u>**</u> Hrs. <u>**</u> ft				
		376.57	22			Medium dense, brownish gray, FINE TO MEDIUM GRAINED SAND (continued)	16			
			19				17			
			14			Dense to very dense, brown gray, FINE GRAINED SAND	15			
			14				15			
			12				31			
			14				43			
			14				50/5			
			14			medium dense	14			
			16				16			
			19				19			
			30				32			
			40			See attached grain size distribution	23			
			40				32			

The Unconfined Compressive Strength (UCS) Failure Mode is indicated by (B-Bulge, S-Shear, P-Penetrometer)
The SPT (N value) is the sum of the last two blow values in each sampling zone (AASHTO T206)
* Rimac not measured due to sample disturbance BBS, from 137 (Rev. 8-99)
** Not measured due to drilling methods used

BORING LOG: B-404 (3 of 4)



Illinois Department of Transportation
Division of Highways
Geotechnology, Inc.

SOIL BORING LOG

Page 3 of 4
Date 4/17/09

ROUTE FAP 998 DESCRIPTION Trilevel Interchange LOGGED BY DTC
SECTION 82-1 LOCATION East St. Louis, IL, SEC. 12, TWP. 2N, RNG. 10W
COUNTY St. Clair DRILLING METHOD HSA with MR HAMMER TYPE CME 75 / 80%

STRUCT. NO.	Station	DEPTH (ft)	BLOW (blows/6")	UCS (tsf)	MOISTURE (%)	DESCRIPTION	DEPTH (ft)	BLOW (blows/6")	UCS (tsf)	MOISTURE (%)
082-0322	NA					Surface Water Elev. <u>Unknown</u> ft				
						Stream Bed Elev. <u>Unknown</u> ft				
B-404	53+44.25					Groundwater Elev.: First Encounter <u>**</u> ft				
	Offset <u>18.65ft Right</u>					Upon Completion <u>**</u> ft				
	Ground Surface Elev. <u>418.57</u> ft					After <u>**</u> Hrs. <u>**</u> ft				
		333.57	13			Dense to very dense, brown gray, FINE GRAINED SAND (continued)	20			
			13				20			
			13				24			
			13				24			
			14				14			
			9				9			
			9				9			
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SHELBY TUBE TEST: B-404 ST (1 of 1)

BORING LOG: B-405 (1 of 3)



SHELBY TUBE TEST RESULTS

Page 1 of 1
Date 4/21/09

ROUTE FAP 998 DESCRIPTION Trilevel Interchange		DRILLED BY BS		TRIAxIAL DATA					
SECTION 82-1	LOCATION East St. Louis, IL, SEC. 12, TWP. 2N, RNG. 10W	S	R	UNIT	S	M	C	P	T
COUNTY St. Clair	STRUCT. NO. 082-0322	DE	RE	WE	ST	OR	OH	PH	TE
BORING NO. B-404ST	Station 53+44.25	TH	CO	IG	RE	U	I	S	ST
Ground Surface Elev. 418.57 ft	Tube Length 24 in	N	N	H	T	R	O	A	T
Offset 18.65ft Right	Begin Sampling Depth 0 ft	Y	E	T	H	E	N	N	P
SOIL TYPE, DESCRIPTION AND OBSERVATIONS		(ft)	(no)	(pcf)	(tsf)	(%)	(tsf)	(deg)	
Black, SILTY LOAM (FILL), with cinders and slag	1-1	100			17				
Black, SILTY LOAM (FILL), with cinders and slag	1-2	100			26				
Black, SILTY CLAY (FILL), with cinders and slag	1-3	100	108	0.6	26				Qu
Brown, SILTY LOAM (FILL)	2-1	100	115		29				
Brown, CLAY (FILL)	2-2	33	113		37				Consd
Brown, CLAY (FILL), with inclusions of cinders, slag, and gravel	3-1	100	109		35				
Brown, CLAY (FILL), with inclusions of cinders, slag, and gravel	3-2	83	121	1.5	26				Qu
Brown, SILTY LOAM	4-1	100							
Brown, CLAY	4-2	100	117		23	0.7			UU
Brown, SILTY LOAM	4-3	67	120		21				Consd

The "Unit Weight" column indicates the "wet" or "moist" unit weight of the sample
 The "Strength" column represents the "unconfined compressive" strength of the sample (AASHTO T 208)
 The "Test Type" indicates if Unconsolidated Undrained (UU) or Consolidated Undrained (CU) test procedures (AASHTO T 296 or T 297) were used

BMPR FORM 1004A (Rev. 8-99)



SOIL BORING LOG

Page 1 of 3
Date 2/4/09

ROUTE FAP 998 DESCRIPTION Trilevel Interchange		DRILLED BY REW		TRIAxIAL DATA					
SECTION 82-1	LOCATION East St. Louis, IL, SEC. 12, TWP. 2N, RNG. 10W	D	B	U	M				
COUNTY St. Clair	DRILLING METHOD HSA with MR	E	L	C	O				
BORING NO. B-405	Station 56+68.318	P	O	S	I				
Ground Surface Elev. 421.20 ft	Begin Sampling Depth 0 ft	T	W	Q	S				
Offset 11.40ft Right	Ground Surface Elev. 421.20 ft	H	S	U	T				
SOIL TYPE, DESCRIPTION AND OBSERVATIONS		(ft)	(/6")	(tsf)	(%)				
Surface Water Elev. Unknown ft									
Stream Bed Elev. Unknown ft									
Groundwater Elev. First Encounter ** ft									
Upon Completion ** ft									
After Hrs. ** ft									
Gray, black, brown SILT (FILL), with sand, cinders, brick and concrete debris	400.20								
Medium dense, grayish brown, SANDY LOAM (continued)	400.20								
Medium stiff to stiff, gray, SILTY CLAY LOAM	7								
	9								
	4								
	3								
	3								
	4				44				
	4								
	5								
	5								
	8								
	2								
	2								
	2								
	6								
	6				21				
	6								
	393.20								
Medium dense, grayish brown, FINE GRAINED SAND, trace silt	9								
Medium stiff, gray, SILT, trace clay	10								
	15								
	2								
	2								
	3				28				
	3								
	2								
	3								
	2								
	3				26				
	3								
	15								
Medium stiff, gray, SILTY CLAY LOAM	405.20								
	2								
	3				29				
	3								
Medium dense, grayish brown, SANDY LOAM	403.20								
	6								
	9								
	9								
	10								
	15								
	40								

The Unconfined Compressive Strength (UCS) Failure Mode is indicated by (B-Bulge, S-Shear, P-Penetrometer)
 The SPT (N value) is the sum of the last two blow values in each sampling zone (AASHTO T206)
 * Rimoc not measured due to sample disturbance
 ** Not measured due to drilling methods used

BBS, from 137 (Rev. 8-99)

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USER NAME =	DESIGNED - PJL	REVISED -
PLOT SCALE = 0.2" = 1' IN.	DRAWN - BRD	REVISED -
PLOT DATE = 6/27/2011	CHECKED - DDB	REVISED -
	DATE - 07-01-11	REVISED -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**BORING LOGS XX
I-70E OVER I-55, CSX & KCS RAILROADS**

SCALE: SHEET S-209 OF S-234 SHEETS STA. TO STA.

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
70	82-1-B-2	ST. CLAIR	399	336
S.N. 082-0322 & S.N. 082-0324		CONTRACT NO. 76C76		
FED. ROAD DIST. NO.		ILLINOIS FED. AID PROJECT		

BORING LOG: RW-410 (1 of 1)



Illinois Department of Transportation
Division of Highways
Geotechnology, Inc.

SOIL BORING LOG

Page 1 of 1

Date 3/3/09

ROUTE FAP 99B DESCRIPTION Trilevel Interchange LOGGED BY LAH
SECTION 82-1 LOCATION East St. Louis, IL, SEC. 7, TWP. 2N, RNG. 9W
COUNTY St. Clair DRILLING METHOD HSA with MR below 15 ft HAMMER TYPE CME 75 / 80%

STRUCT. NO. Station	BORING NO. Station	Offset	Ground Surface Elev.	D (ft)	B (/6")	U (tsf)	M (%)	Surface Water Elev.		D (ft)	B (/6")	U (tsf)	M (%)
								Unknown	Unknown				
082-0322 NA	RW-410 77	36.00ft Right	417.57					Unknown	Unknown				
Gray, CLAY (FILL), with cinders and sand								SHff, gray, SILTY CLAY LOAM					
				2						2			
				3		27				3		27	
				2		35				8			
			395.07										
				1						6			
			413.57							8			
				4		32				8			
				4						8			
			392.57										
				2						1			
				3	2.1	31				1		32	
			409.57							1			
				0									
				1		30				6			
			407.57							8			
				0									
				0									
			404.57										
				0						11			
				2	0.5	41				14			
				2	B					15			
				0									
				1	0.9	31							
				1	S								
				0									
				1	1.0	39				7			
			397.57							6			
				2	S					7			

End of Boring
The Unconfined Compressive Strength (UCS) Failure Mode is indicated by (B-Bulge, S-Shear, P-Penetrometer)
The SPT (N value) is the sum of the last two blow values in each sampling zone (AASHTO T206)
* Rimac not measured due to sample disturbance
** Not measured due to drilling methods used
BBS, from 157 (Rev. 8-99)

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SHELBY TUBE TEST: RW-410 ST (1 of 2)

SHELBY TUBE TEST: RW-410 ST (1 of 2)



SHELBY TUBE TEST RESULTS

Page 1 of 2

Date 4/21/09

ROUTE FAP 998 DESCRIPTION Trilevel Interchange DRILLED BY BS

SECTION 82-1 LOCATION East St. Louis, IL, SEC. 7, TWP. 2N, RNG. 9W

COUNTY St. Clair STRUCT. NO. 082-0322

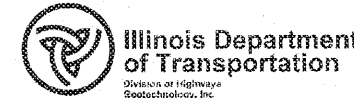
BORING NO. RW-410ST Station 77 Ground Surface Elev. 417.6 ft Tube Length 24 in

Offset 36ft Right Begin Sampling Depth -1 ft Tube Diameter 3 in

SOIL TYPE, DESCRIPTION AND OBSERVATIONS	DEPTH (ft)	SPECCIMEN		UNIT WEIGHT		STRENGTH		MOISTURE		COHESION (tsf)	PHI (deg)	TEST TYPE
		(no)	(%)	(pcf)	(tsf)	(%)	(tsf)	(deg)				
Gray to black, CLAY (FILL), with roots, cinders, tile fragments, and gravel	1-1	100	103		31							CU
Gray to black, CLAY (FILL), with roots, cinders, tile fragments, and gravel	1-2	100	91	0.5	45							CU
Gray to black, CLAY (FILL), with roots, cinders, tile fragments, and gravel	1-3	67			35							CU
Black, SAND (FILL), cinders, with slag, roots, and brick fragments	2-1	100			21							CU
Gray to black, CLAY LOAM	2-2	100	112		30							CU
Gray CLAY, with iron staining	2-3	100	114	0.8	33							CU
Gray CLAY, with iron staining	2-4	33										CU
Gray, CLAY	3-1	100	112	1.2	34							CU
Gray, CLAY	3-2	100	112	1.3	36							CU
Gray, CLAY	3-3	100	117		29							CU
Gray, SILTY LOAM, with clay partings	4-1	100	113		31							UU
Gray, SILTY LOAM, with clay partings	4-2	100										UU
Gray, SILTY LOAM, with clay partings	4-3	100	112	0.7	29							UU
Gray, SILTY LOAM, with clay partings	4-4	33	114		30							UU
Brown, SILTY LOAM	5-1	100										UU
Green, CLAY	5-2	100	107		45							CU
Gray, SILTY LOAM	5-3	100	118		37	0.0	39					CU
Gray, SILTY LOAM	5-4	67	113		32							CU
Gray, CLAY	6-1	100			39							CU
Gray, SANDY CLAY LOAM	6-2	100	114	0.2	34							UU
Gray, SANDY CLAY LOAM, trace gravel	6-3	100	114	0.4	34							UU
Gray, CLAY	6-4	83	117		33							CU
Gray, SANDY LOAM	7-1	100										CU
Gray, CLAY, with iron staining	7-2	100	116		33							CU

The "Unit Weight" column indicates the "wet" or "moist" unit weight of the sample
 The "Strength" column represents the "unconfined compressive" strength of the sample (AASHTO T 208)
 The "Test Type" indicates if Unconsolidated Undrained (UU) or Consolidated Undrained (CU) test procedures (AASHTO T 296 or T 297) were used

BMPR FORM 1004A (Rev. 8-89)



SHELBY TUBE TEST RESULTS

Page 2 of 2

Date 4/21/09

ROUTE FAP 998 DESCRIPTION Trilevel Interchange DRILLED BY BS

SECTION 82-1 LOCATION East St. Louis, IL, SEC. 7, TWP. 2N, RNG. 9W

COUNTY St. Clair STRUCT. NO. 082-0322

BORING NO. RW-410ST Station 77 Ground Surface Elev. 417.6 ft Tube Length 24 in

Offset 36ft Right Begin Sampling Depth -1 ft Tube Diameter 3 in

SOIL TYPE, DESCRIPTION AND OBSERVATIONS	DEPTH (ft)	SPECCIMEN		UNIT WEIGHT		STRENGTH		MOISTURE		COHESION (tsf)	PHI (deg)	TEST TYPE
		(no)	(%)	(pcf)	(tsf)	(%)	(tsf)	(deg)				
Gray, CLAY, with iron staining	7-3	100	113		43	0.0	29					CU
Gray, CLAY, with iron staining	7-4	83	111		42							CU
Gray, SILTY CLAY LOAM	8-1	100	110		42							CU
Gray, SILTY CLAY LOAM	8-2	100	114	0.4	35							CU
Gray, SILTY CLAY LOAM	8-3	100	110	0.5	43							CU
Medium stiff, gray, SILTY LOAM with iron staining	9-1	100	117		35							UU
Medium stiff, gray, SILTY LOAM with iron staining	9-2	100	117	0.8	32							UU
Medium stiff, gray, SILTY LOAM with iron staining	9-3	100	117	0.6	33							UU
Medium stiff, gray, SILTY LOAM with iron staining	9-4	33										UU
Brown, SANDY LOAM	10-1	100			22							UU
Medium stiff, gray, SILTY CLAY LOAM, with iron nodules	10-2	100	119		30							UU
Medium stiff, gray CLAY LOAM, with iron nodules	10-3	100	116	1.0	33							UU
Medium stiff, gray CLAY LOAM, with iron nodules	10-4	33										UU
Soft, gray, CLAY, with iron staining	11-1	100	116		26							UU
Medium stiff, gray, SILTY LOAM, with iron nodules	11-2	100			23							UU
Gray, SANDY LOAM, with iron staining	11-3	100			15							UU
Brown, SILTY CLAY LOAM	12-1	100	116		24							UU
Brown, SILTY LOAM	12-2	100			24							UU
Brown, SILTY LOAM	12-3	67	112		24							UU
Brown, SANDY LOAM	13-1	100	108		19							UU
Brown, SANDY LOAM	13-2	67			11							UU
Brown, SANDY LOAM	13-3	33	101		7							UU

The "Unit Weight" column indicates the "wet" or "moist" unit weight of the sample
 The "Strength" column represents the "unconfined compressive" strength of the sample (AASHTO T 208)
 The "Test Type" indicates if Unconsolidated Undrained (UU) or Consolidated Undrained (CU) test procedures (AASHTO T 296 or T 297) were used

BMPR FORM 1004A (Rev. 8-89)

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USER NAME =	DESIGNED - PJL	REVISED -
PLOT SCALE = 0/2" = 1' / IN.	DRAWN - BRD	REVISED -
PLOT DATE = 6/27/2011	CHECKED - DDB	REVISED -
	DATE - 07-01-11	REVISED -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**BORING LOGS XXIX
I-70E OVER I-55, CSX & KCS RAILROADS**

SCALE: SHEET S-218 OF S-234 SHEETS STA. TO STA.

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
70	82-1-B-2	ST. CLAIR	399	345
S.N. 082-0322 & S.N. 082-0324		CONTRACT NO. 76C76		
FED. ROAD DIST. NO.		ILLINOIS FED. AID PROJECT		

SHELBY TUBE TEST: B-416 ST (1 of 2)



SHELBY TUBE TEST RESULTS

Page 1 of 2

Date 4/7/09

ROUTE FAP 998 DESCRIPTION Trilevel Interchange DRILLED BY BS

SECTION 82-1 LOCATION East St. Louis, IL, SEC. 7, TWP. 2N, RNG. 9W

COUNTY St. Clair STRUCT. NO. 082-W310

BORING NO. B-416ST

Station 64+85.22 Ground Surface Elev. 413.00 ft Tube Length 24 in

Offset 4.54ft Left Begin Sampling Depth 3 ft Tube Diameter 3 in

SOIL TYPE, DESCRIPTION AND OBSERVATIONS	DEPTH		UNIT		STRENGTH		MOISTURE		COHESION		TEST TYPE
	(ft)	(no)	(%)	(pcf)	(tsf)	(%)	(tsf)	(deg)			
Gray brown, CLAY LOAM	1-1	100		42							UU
Gray brown, CLAY LOAM	1-2	100	119		23						UU
Gray brown, CLAY LOAM	1-3	33	118		25						UU
Gray, CLAY LOAM, with silt	2-1	100									Consol
Gray, CLAY LOAM, with silt	2-2	100	120		23						CU
Brownish gray, CLAY LOAM	3-1	100	121		28						CU
Brownish gray, CLAY LOAM	3-2	100	118		26	0.1	32				CU
Brownish gray, CLAY LOAM	3-3	100	113		43						CU
Brown, CLAY	4-1	100	120		33						Qu
Brown, CLAY	4-2	100	120	0.5	33						Qu
Grayish brown, CLAY	4-3	100			31						Qu
Grayish brown, CLAY	4-4	100	115	0.6	37						Qu
Gray, CLAY, trace iron stains	5-1	100	117		34						Qu
Gray, CLAY, trace iron stains	5-2	100			36						Qu
Gray, CLAY, trace iron stains	5-3	100			33						Qu
Grayish brown, SANDY LOAM	6-1	100									UU
Grayish brown, SANDY LOAM	6-2	100									UU
Gray, CLAY, trace fine sand, silt, iron staining	6-3	100	111	0.5	42						UU
Gray, CLAY, trace fine sand, silt, iron staining	6-4	33									Consol
Brown and gray, CLAY, trace fine sand, iron staining	7-1	100									Qu
Gray, CLAY	7-2	100	113	0.3	30						Qu

The "Unit Weight" column indicates the "wet" or "moist" unit weight of the sample
 The "Strength" column represents the "unconfined compressive" strength of the sample (AASHTO T 208)
 The "Test Type" indicates if Unconsolidated Undrained (UU) or Consolidated Undrained (CU) test procedures (AASHTO T 296 or T 297) were used

BMPR FORM 1004A (Rev. 8-99)

SHELBY TUBE TEST: B-416 ST (2 of 2)



SHELBY TUBE TEST RESULTS

Page 2 of 2

Date 4/7/09

ROUTE FAP 998 DESCRIPTION Trilevel Interchange DRILLED BY BS

SECTION 82-1 LOCATION East St. Louis, IL, SEC. 7, TWP. 2N, RNG. 9W

COUNTY St. Clair STRUCT. NO. 082-W310

BORING NO. B-416ST

Station 64+85.22 Ground Surface Elev. 413.00 ft Tube Length 24 in

Offset 4.54ft Left Begin Sampling Depth 3 ft Tube Diameter 3 in

SOIL TYPE, DESCRIPTION AND OBSERVATIONS	DEPTH		UNIT		STRENGTH		MOISTURE		COHESION		TEST TYPE
	(ft)	(no)	(%)	(pcf)	(tsf)	(%)	(tsf)	(deg)			
Brown, SANDY LOAM	7-3	100	114	1.4	34						UU
Brown, MEDIUM GRAINED SAND	7-4	33									Qu
Grayish brown, SILTY LOAM	8-1	100	107	0.5	46						Qu
Grayish brown, SILTY LOAM	8-2	100	117	2.0	31						Qu
Grayish brown, SILTY LOAM	8-3	100	111	0.6	42						Qu
Gray, CLAY	8-4	100	107	0.5	46						Qu
Gray, SANDY LOAM	9-1	100	106		49						UU
Gray, CLAY	9-2	100	107	0.4	47						UU
Gray, FINE GRAINED SAND	9-3	100									Qu
Gray, FINE GRAINED SAND	9-4	100									Qu
Gray, CLAY	10-1	100	98	0.1	34						Qu
Gray, FINE GRAINED SAND	10-2	100			27						Qu
Gray, SANDY LOAM	11-1	100			26						Qu
Gray, FINE GRAINED SAND	11-2	100			12						Qu
Brown, FINE GRAINED SAND, with gravel	11-3	100			7						Qu

The "Unit Weight" column indicates the "wet" or "moist" unit weight of the sample
 The "Strength" column represents the "unconfined compressive" strength of the sample (AASHTO T 208)
 The "Test Type" indicates if Unconsolidated Undrained (UU) or Consolidated Undrained (CU) test procedures (AASHTO T 296 or T 297) were used

BMPR FORM 1004A (Rev. 8-99)

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USER NAME =	DESIGNED - P.J.L.	REVISED -
DRAWN - BRD	CHECKED - DDB	REVISED -
PLOT SCALE = 1/4" = 1' IN.	DATE - 07-01-11	REVISED -
PLOT DATE = 6/27/2011		

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**BORING LOGS XXXVII
I-70E OVER I-55, CSX & KCS RAILROADS**

SCALE: SHEET 5-226 OF 5-234 SHEETS STA. TO STA.

F.A.I. RTE. 70	SECTION 82-1-B-2	COUNTY ST. CLAIR	TOTAL SHEETS 399	SHEET NO. 353
S.N. 082-0322 & S.N. 082-0324		CONTRACT NO. 76C76		
FED. ROAD DIST. NO.		ILLINOIS FED. AID PROJECT		

SHELBY TUBE TEST: B-422 ST (1 of 2)



SHELBY TUBE TEST RESULTS

Page 1 of 2

Date 2/27/09

ROUTE		DESCRIPTION		DRILLED BY		MU		TRIAxIAL DATA						
SECTION		LOCATION		STRICT. NO.		STATION		DEPTH	UNIT	STRENGTH	MOISTURE	COHESION	PHI	TEST
COUNTY		STRUCT. NO.		STATION		GROUND SURFACE ELEV.		DEPTH	UNIT	STRENGTH	MOISTURE	COHESION	PHI	TEST
FAP 998		Trilevel Interchange		MU										
82-1		East St. Louis, IL, SEC. 7, TWP. 2N, RNG. 9W		082-0325		NA								
St. Clair		082-0325		NA		413.00 ft								
B-422ST		65+21.58		NA		24 in								
6.88ft Left		0		NA		3 in								
SOIL TYPE, DESCRIPTION AND OBSERVATIONS														
SILTY CLAY LOAM (FILL), with gravel, asphalt and glass								1-1	100					
SILTY CLAY LOAM (FILL), with gravel, asphalt and glass								1-2	100					
Brown, LOAM								1-3	100	116		18		
Brown, LOAM								1-4	33	113		17		
Brown to gray, LOAM, trace gravel								2-1	100					
Brown to gray, LOAM, trace gravel								2-2	100	114		19		
Brown to gray, LOAM, trace gravel								2-3	100					
Brown to gray, LOAM, trace gravel								2-4	17	115		21		
Brown, SANDY CLAY LOAM, trace gravel								3-1	100					
Brown, SANDY CLAY LOAM, trace gravel								3-2	100	113		24		Consol
Brown, SANDY CLAY LOAM, trace gravel								3-3	100					
Brown, SANDY CLAY LOAM, trace gravel								3-4	33			0.2	29	CU
Brown, SANDY SILTY LOAM								4-1	100					
Brown, SANDY SILTY LOAM								4-2	100	115	0.5	29		QU
Brown, SANDY CLAY LOAM								4-3	100	115	0.5	28		QU
Brown, SANDY LOAM								4-4	83					
Brown, SANDY LOAM								5-1	100					
Brown, SANDY LOAM								5-2	100	92		10		
Brown, SANDY LOAM								5-3	100	115	0.8	28		QU
Brown, CLAY LOAM								5-4	100	117	0.8	27		UU
Brown, SANDY LOAM								6-1	100					
Brown, SANDY LOAM								6-2	100	94		10		
Brown, SANDY LOAM								6-3	83					
Brown, SANDY LOAM								7-1	100					
Brown, SANDY LOAM								7-2	100	114		30		

The "Unit Weight" column indicates the "wet" or "moist" unit weight of the sample
 The "Strength" column represents the "unconfined compressive" strength of the sample (AASHTO T 208)
 The "Test Type" indicates if Unconsolidated Undrained (UU) or Consolidated Undrained (CU) test procedures (AASHTO T 296 or T 297) were used
 BMPR FORM 1004A (Rev. 8-99)

SHELBY TUBE TEST: B-422 ST (2 of 2)



SHELBY TUBE TEST RESULTS

Page 2 of 2

Date 2/27/09

ROUTE		DESCRIPTION		DRILLED BY		MU		TRIAxIAL DATA						
SECTION		LOCATION		STRICT. NO.		STATION		DEPTH	UNIT	STRENGTH	MOISTURE	COHESION	PHI	TEST
COUNTY		STRUCT. NO.		STATION		GROUND SURFACE ELEV.		DEPTH	UNIT	STRENGTH	MOISTURE	COHESION	PHI	TEST
FAP 998		Trilevel Interchange		MU										
82-1		East St. Louis, IL, SEC. 7, TWP. 2N, RNG. 9W		082-0325		NA								
St. Clair		082-0325		NA		413.00 ft								
B-422ST		65+21.58		NA		24 in								
6.88ft Left		0		NA		3 in								
SOIL TYPE, DESCRIPTION AND OBSERVATIONS														
Brown, SANDY LOAM								7-3	83					
Brown, SANDY LOAM								8-1	100					
Brown, CLAY LOAM, with sand								8-2	100	118	0.6	30		QU
Brown, CLAY LOAM, with sand								8-3	100	109	0.5	30		QU
Brown, CLAY LOAM, with sand								8-4	67	115	0.9	33		UU
Black to gray, SILTY LOAM								9-1	100	117		34		Consol
Black to gray, SILTY LOAM								9-2	100	117	0.7	34		QU
Black to gray, SILTY LOAM								9-3	67					
Brown, SANDY LOAM								10-1	100					
Brown, SANDY LOAM								10-2	100					
Brown, SANDY LOAM								10-3	83	101		15		

The "Unit Weight" column indicates the "wet" or "moist" unit weight of the sample
 The "Strength" column represents the "unconfined compressive" strength of the sample (AASHTO T 208)
 The "Test Type" indicates if Unconsolidated Undrained (UU) or Consolidated Undrained (CU) test procedures (AASHTO T 296 or T 297) were used
 BMPR FORM 1004A (Rev. 8-99)

I:\projects\68046608\082-0322 & 0324\figover\9802.cad\101.dwg 2/27/09 10:00 AM



USER NAME =	DESIGNED - P.J.L.	REVISED -
PLOT SCALE = 0.2" = 1' / IN.	DRAWN - BRD	REVISED -
PLOT DATE = 6/27/2011	CHECKED - DDB	REVISED -
	DATE - 07-01-11	REVISED -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**BORING LOGS XL
I-70E OVER I-55, CSX & KCS RAILROADS**

SCALE: SHEET S-229 OF S-234 SHEETS STA. TO STA.

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
70	82-1-B-2	ST. CLAIR	399	356
S.N. 082-0322 & S.N. 082-0324		CONTRACT NO. 76C76		
FED. ROAD DIST. NO.		ILLINOIS FED. AID PROJECT		

BORING LOG: B-427 (Page 3 of 3)



Illinois Department of Transportation
Division of Highways
Geotechnology, Inc.

SOIL BORING LOG

Page 3 of 3

Date 8/9/11

ROUTE FAP 998 DESCRIPTION Trityel Interchange LOGGED BY BJS
SECTION 82-1 LOCATION East St. Louis, IL, SEC. 18, TWP. 2N, RNG. 0W
COUNTY St. Clair DRILLING METHOD HSA with MR below 15 ft HAMMER TYPE CME 75 / 65%

STRUCT. NO. Station	BORING NO. Station Offset Ground Surface Elev.	D E P T H	B L O W S	U C S Qu	M O I S T U R E (%)	Surface Water Elev.		Stream Bed Elev.		Groundwater Elev.		D E P T H (ft)	B L O W S (bl)	U C S (tsf)	M O I S T (%)
						ft	ft	ft	ft	ft	ft				
082-0322 NA	B-427 87+70 0ft Right 384.4					Unknown	Unknown	Unknown	Unknown	**	**				
Medium dense to very dense, gray, FINE TO MEDIUM GRAINED SAND (continued)															
CRYSTALLINE LIMESTONE - See Rock Core Log						299.4									
CRYSTALLINE LIMESTONE - See Rock Core Log (continued)															
End of Boring						289.4									

The Unconfined Compressive Strength (UCS) Failure Mode is indicated by (B-Bulge, S-Shear, P-Perimeter)
The SPT (N value) is the sum of the last two blow values in each sampling zone (AASHTO T205)
* Rimac attempted, not measured due to sample disturbance
** Not measured due to drilling methods used

K:\projects\6804680\082-0322 & 0324\fig\980.cad\301.dwg\980.master_consolidated\structure\082-0322\sheet\082-0322-0324-76C76-SJ44-Boring-log-44.dgn



USER NAME =	DESIGNED - P.J.L.	REVISED -
PLOT SCALE = 0.2" = 1' / IN.	DRAWN - BRD	REVISED -
PLOT DATE = 6/27/2011	CHECKED - DDB	REVISED -
	DATE - 07-01-11	REVISED -

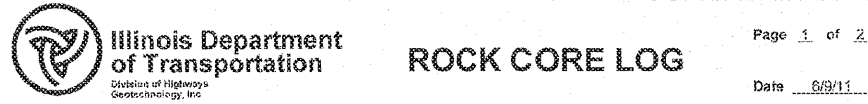
**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**BORING LOGS XLIV
I-70E OVER I-55, CSX & KCS RAILROADS**

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
70	82-1-B-2	ST. CLAIR	399	360
S.N. 082-0322 & S.N. 082-0324		CONTRACT NO. 76C76		
FED. ROAD DIST. NO. ILLINOIS FED. AID PROJECT				

SCALE: SHEET 5-233 OF 5-234 SHEETS STA. TO STA.

ROCK CORE LOG: B-427 CORE (Page 1 of 2)



ROUTE FAP 998 DESCRIPTION Trilevel Interchange LOGGED BY LAH

SECTION 82-1 LOCATION East St. Louis, IL, SEC. 18, TWP. 2N, RNG. 9W

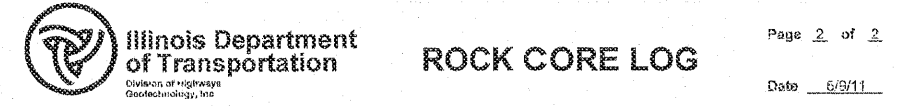
COUNTY St. Clair CORING METHOD Wireline

STRUCT. NO. 082-0322 CORING BARREL TYPE & SIZE NX
 Station NA
 BORING NO. B-427 Core Core Diameter 2 in
 Station 67+70 Top of Rock Elev. 299.4 ft
 Offset 6ft Right Begin Core Elev. 289.4 ft
 Ground Surface Elev. 384.4 ft

DEPTH (ft)	RECOVERY (%)	ROQ (%)	RTM (min/ft)	STRENGTH (tsf)
1	100	100	2	1183.0
Hard, gray, very finely crystalline, massive, slightly weathered to fresh, LIMESTONE				
moderately weathered stylolite - 0.5"				
2	100	100	2	2181.0
Moderately hard, gray, very finely crystalline, massive, slightly weathered, argillaceous LIMESTONE				
3	100	76	1.8	1131.0
soft, blue, clayey shale seam - 1.25" soft, blue, clayey shale seam - 0.75"				
Moderately hard, gray, very finely crystalline, massive, slightly weathered to fresh, LIMESTONE				
4	100	100	1.7	370.0
Moderately hard, gray, very finely crystalline, thick bedded, slightly weathered, argillaceous LIMESTONE				
Moderately hard, gray, very finely crystalline to micritic, massive, fresh, LIMESTONE				

Color pictures of the cores Yes
 Cores will be stored for examination until 12-10-11
 The "Strength" column represents the uniaxial compressive strength of the core sample (ASTM D-2938)
 BBS, form 138 (Rev. 8-99)

ROCK CORE LOG: B-427 CORE (Page 2 of 2)



ROUTE FAP 998 DESCRIPTION Trilevel Interchange LOGGED BY LAH

SECTION 82-1 LOCATION East St. Louis, IL, SEC. 18, TWP. 2N, RNG. 9W

COUNTY St. Clair CORING METHOD Wireline

STRUCT. NO. 082-0322 CORING BARREL TYPE & SIZE NX
 Station NA
 BORING NO. B-427 Core Core Diameter 2 in
 Station 67+70 Top of Rock Elev. 299.4 ft
 Offset 6ft Right Begin Core Elev. 289.4 ft
 Ground Surface Elev. 384.4 ft

DEPTH (ft)	RECOVERY (%)	ROQ (%)	RTM (min/ft)	STRENGTH (tsf)
5	100	94	1.8	1042.0
Moderately hard, gray, very finely crystalline to micritic, massive, fresh, LIMESTONE (continued) argillaceous bands				
6	100	100	1.6	611.0
argillaceous bands argillaceous marbling				
End of boring				

Color pictures of the cores Yes
 Cores will be stored for examination until 12-10-11
 The "Strength" column represents the uniaxial compressive strength of the core sample (ASTM D-2938)
 BBS, form 138 (Rev. 8-99)

K:\projects\60046608\082-0322 & 0324\1\user\900\csc\901\drawings\766288.master_cen\082-0322-sheet1\082-0322-sheet1.dwg

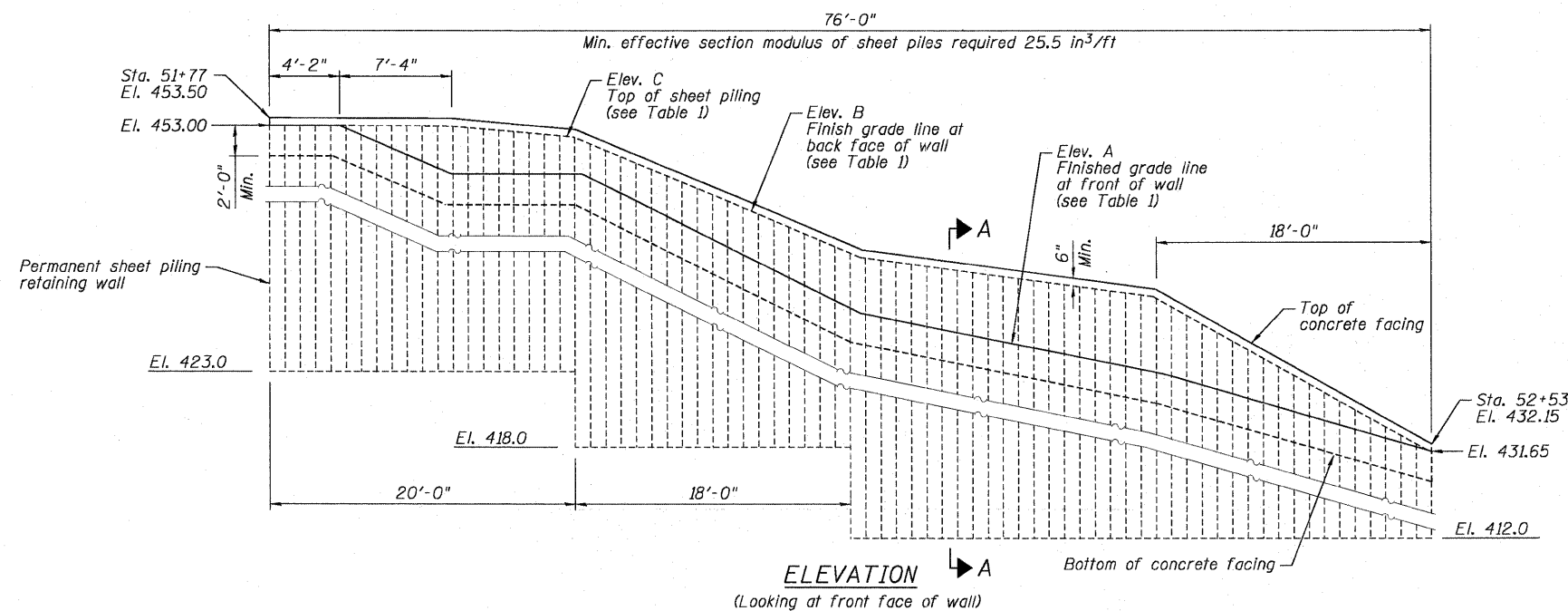


USER NAME =	DESIGNED - P.J.L.	REVISED -
PLOT SCALE = 8x2 1/2" / IN.	DRAWN - BRD	REVISED -
PLOT DATE = 6/27/2011	CHECKED - DDB	REVISED -
	DATE - 07-01-11	REVISED -

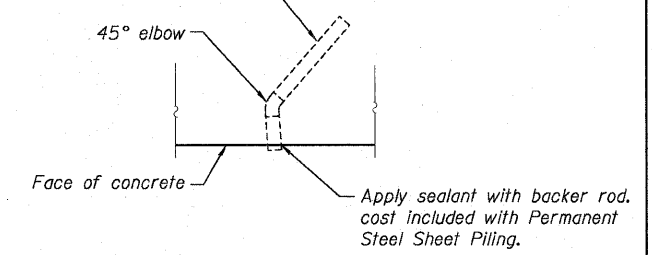
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

BORING LOGS XLV
I-70E OVER I-55, CSX & KCS RAILROADS
SCALE: SHEET 5-234 OF 5-234 SHEETS STA. TO STA.

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
70	82-1-B-2	ST. CLAIR	399	361
S.N. 082-0322 & S.N. 082-0324			CONTRACT NO. 76C76	
FED. ROAD DIST. NO.		ILLINOIS FED. AID PROJECT		



4" dia x 2'-6" long Sch 80 PVC pipe with end cap, 12-1/2" evenly distributed holes and fabric wrapped. Pushed or predrilled into backfill. Cost of installing weep holes included with Permanent Steel Sheet Piling.



WEEP HOLE DETAIL

DESIGN SPECIFICATIONS
2002 AASHTO - Standard Specifications for Highway Bridges

DESIGN STRESSES
f'c = 3,500 psi
fy = 60,000 psi (reinf.)
fy = 39,000 psi (M202 Grade 39)

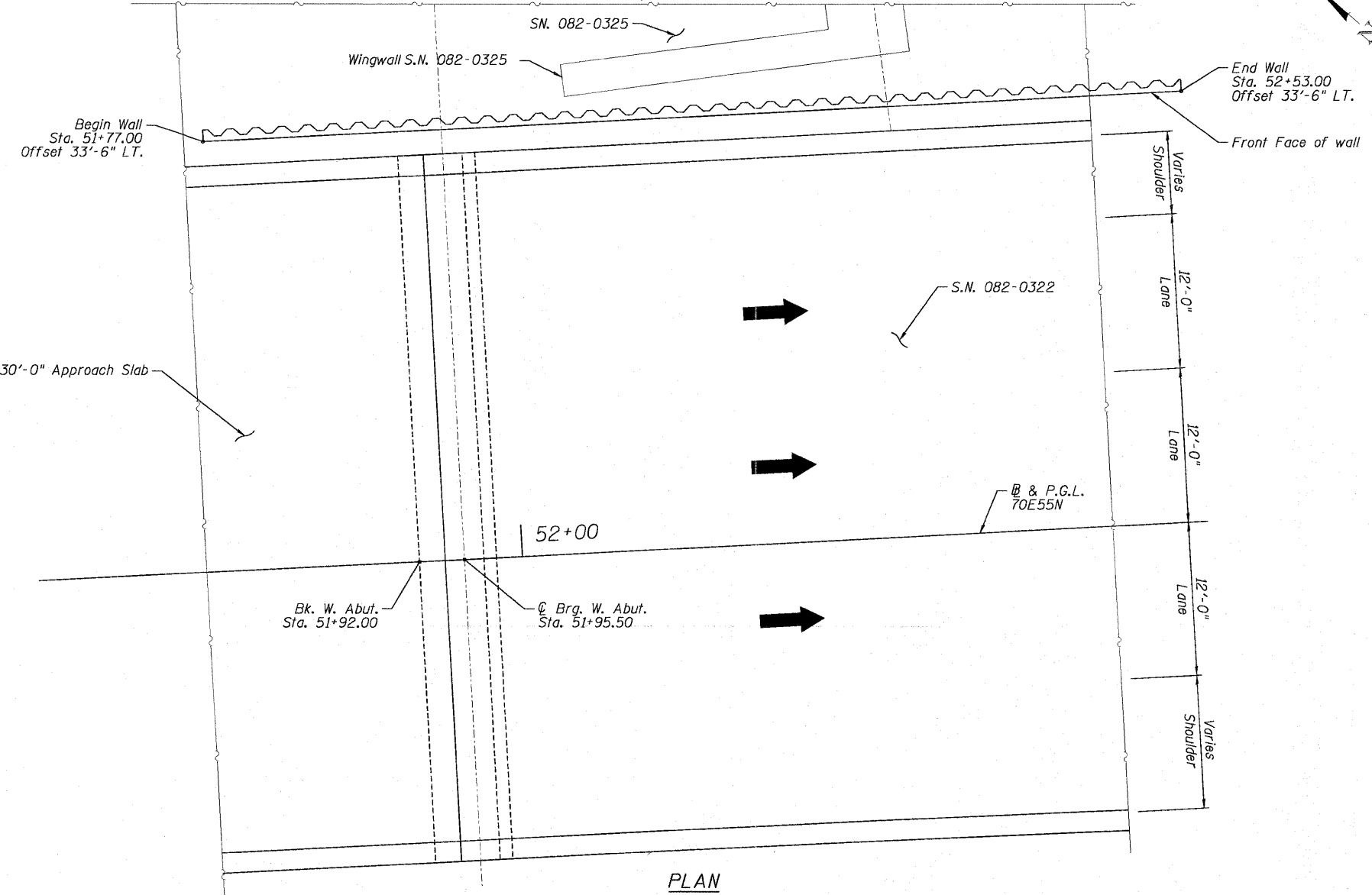


TABLE 1

Station	Offset	Elev. A (feet)	Elev. B (feet)	Elev. C (feet)
51+77	33'-6"	453.00	453.00	453.00
51+81.17	33'-6"	453.00	453.00	453.00
51+88.5	33'-6"	449.83	452.63	453.00
51+97	33'-6"	449.83	452.25	452.25
52+15	33'-6"	440.90	444.03	444.03
52+35	33'-6"	436.85	441.85	441.85
52+53	33'-6"	431.65	431.65	431.65

Notes:
Station and offset are measured from @ 70E55N to the front face of the wall.

BILL OF MATERIAL

Bar	No.	Size	Length	Shape
h1(E)	3	#5	12'-6"	—
h2(E)	6	#5	11'-1"	—
h3(E)	3	#5	8'-1"	—
h4(E)	6	#5	22'-8"	—
h5(E)	8	#5	23'-4"	—
h6(E)	8	#5	20'-9"	—
v1(E)	4	#5	2'-2"	—
v2(E)	4	#5	7'-6"	—
v3(E)	4	#5	9'-11"	—
v4(E)	9	#5	9'-11"	—
v5(E)	10	#5	12'-6"	—
v6(E)	9	#5	9'-4"	—
u1(E)	6	#5	4'-6"	□
Concrete Structures		Cu. Yd.		20
Reinforcement Bars, Epoxy Coated		Pound		1070
Permanent Steel Sheet Piling		Sq. Ft.		2204



USER NAME =	DESIGNED - DDB	REVISED -
PLOT SCALE = 0.0093333' / 1"	DRAWN - GF	REVISED -
PLOT DATE = 8/9/2011	CHECKED - DEV	REVISED -
	DATE - 08-12-11	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

PERMANENT STEEL SHEET PILE WALL - GENERAL PLAN
I-70E OVER I-55, CSX & KCS RAILROADS

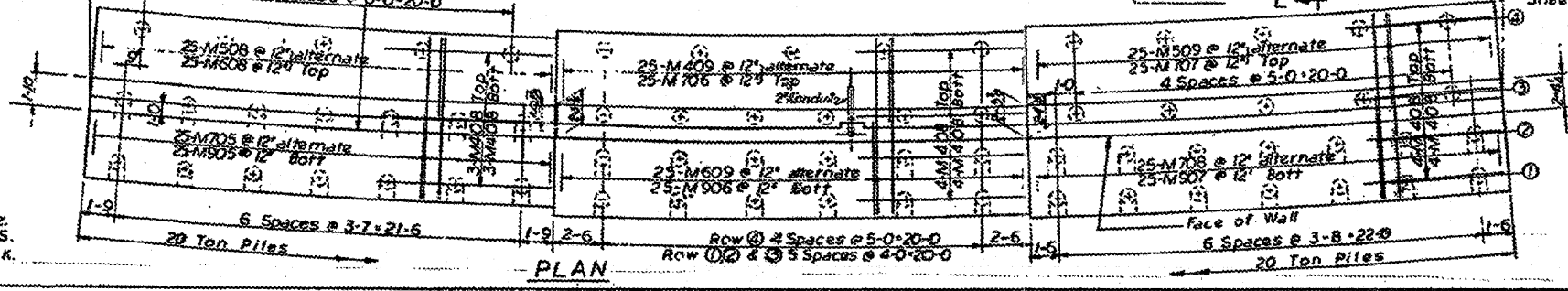
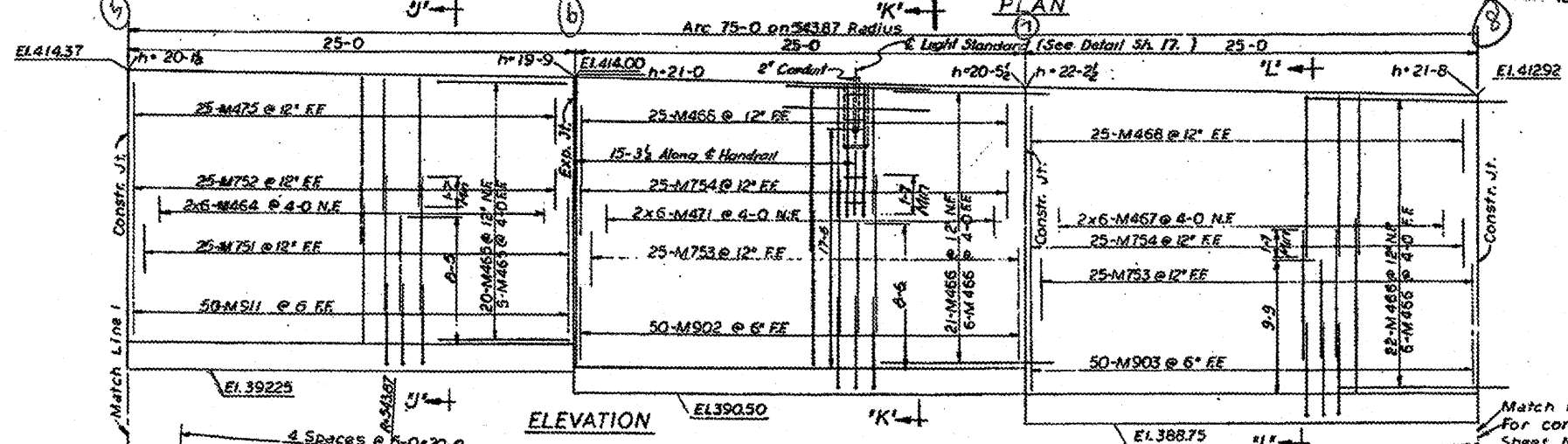
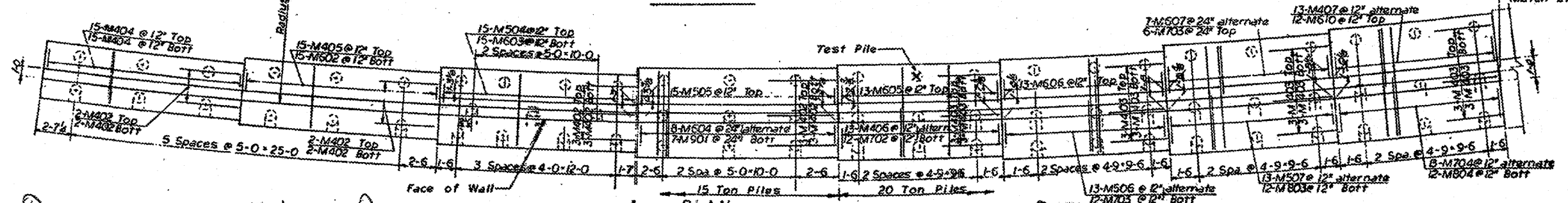
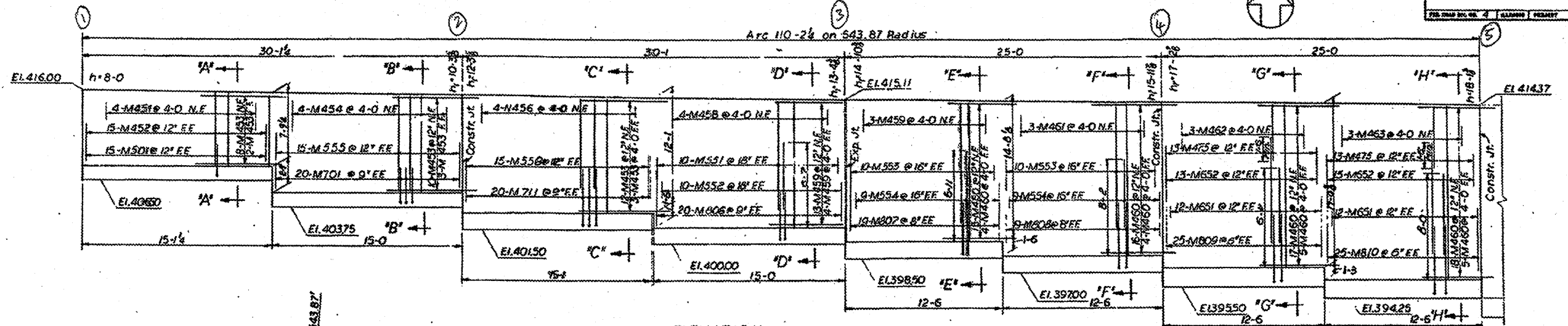
SCALE: SHEET S-234A OF S-234 SHEETS STA. 51+77 TO STA. 52+53

F.A.I. RTE. 70	SECTION 82-1-B-2	COUNTY ST. CLAIR	TOTAL SHEETS 399	SHEET NO. 361A
S.N. 082-0322 & S.N. 082-0324		CONTRACT NO. 76C76		
FED. ROAD DIST. NO. ILLINOIS FED. AID PROJECT				

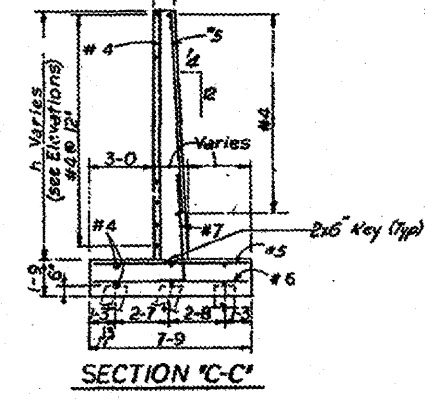
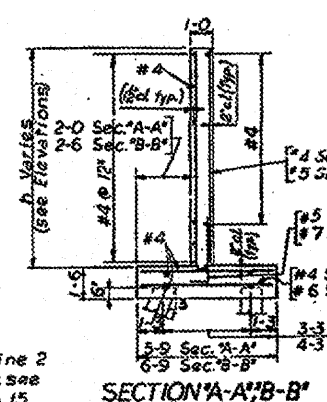
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FOR INFORMATION ONLY

PROJECT NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
F.A.I. - 7	82-1B-2	ST. CLAIR	399	42
DATE: MAY 1958 CHICAGO, ILLINOIS SHEET NO. 14				



NOTE
All longitudinal dimensions measured along face of wall.



STATE OF ILLINOIS
DEPARTMENT OF PUBLIC WORKS & BLDGS.
DIVISION OF HIGHWAYS
CITY OF EAST ST. LOUIS
EAST ST. LOUIS EXPRESSWAY
RETAINING WALL "M"
DETAILS

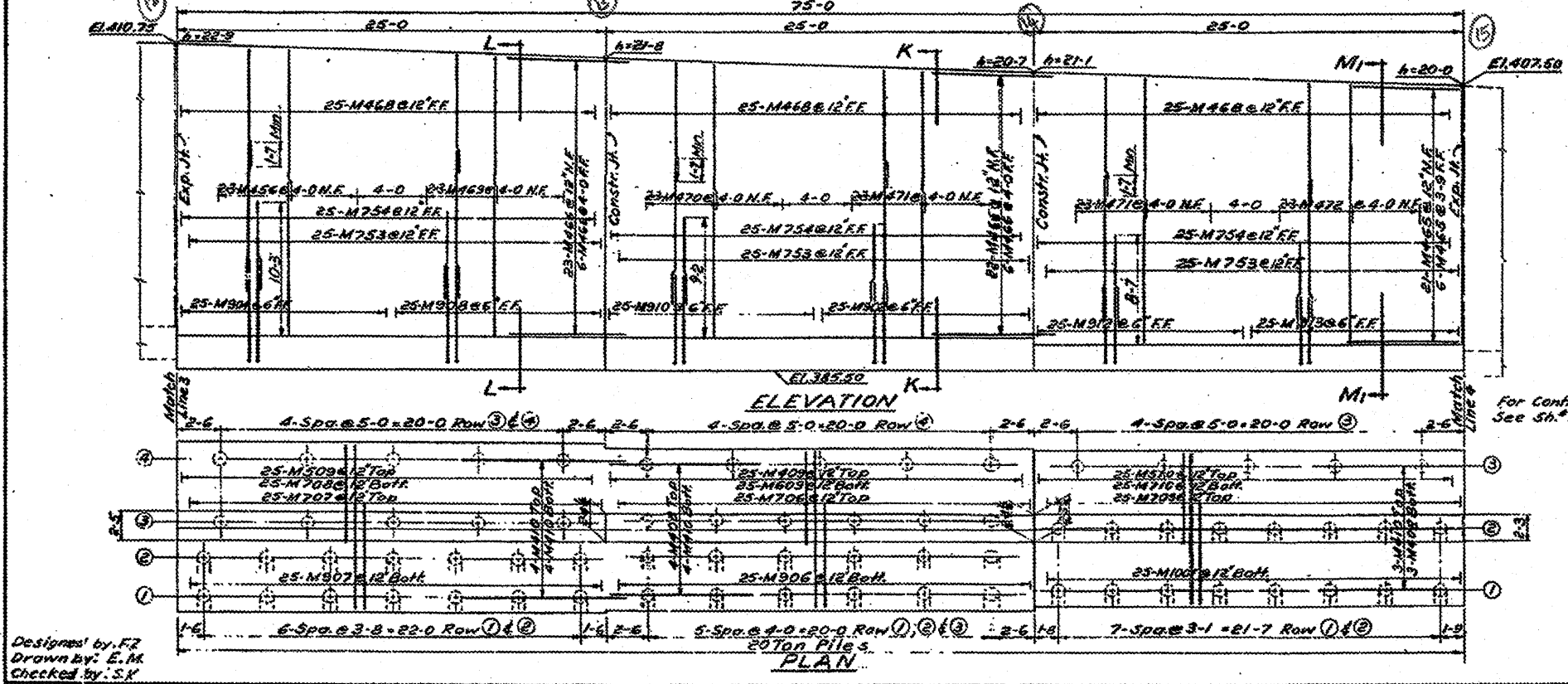
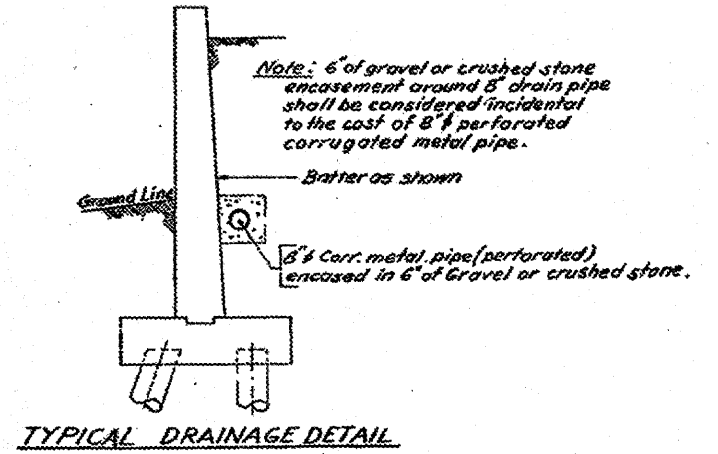
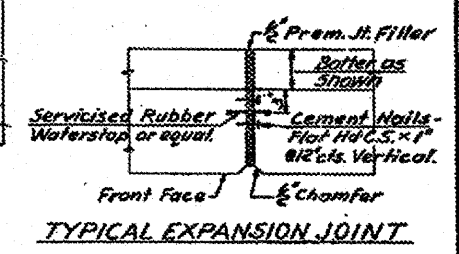
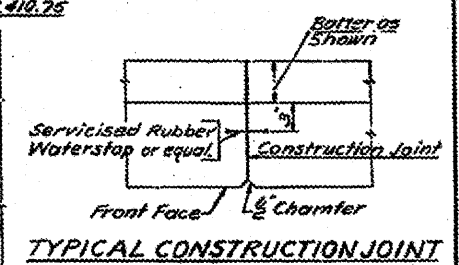
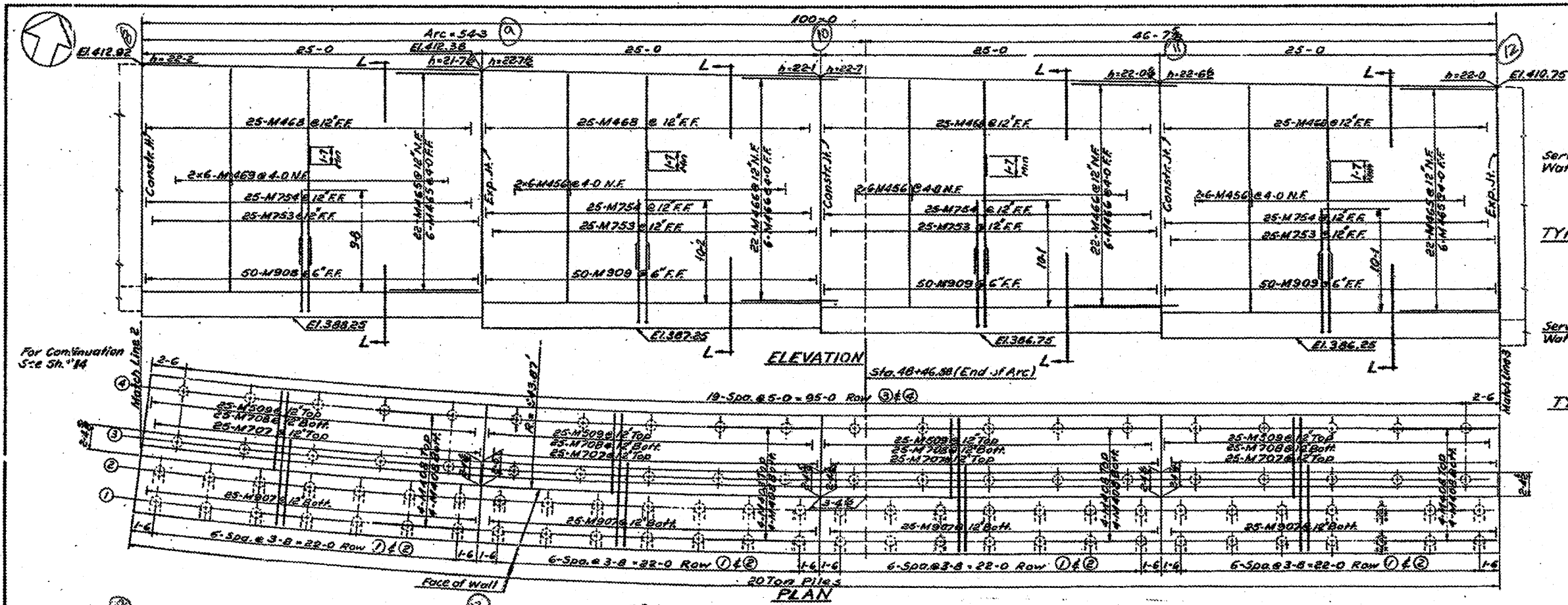
H. W. LOCHNER, INC.
ENGINEERS
CHICAGO, ILLINOIS

Designed by: F.Z.
Drawn by: P.S.
Checked by: S.K.

FILE NAME	USER NAME = bhata	DESIGNED -	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	EXISTING RETAINING WALL PLANS	F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.	
#FILE#	PLDT SCALE = 48,000' / 1" IN.	DRAWN - CF	REVISED -			70	82-1B-2	ST. CLAIR	399	363	
	PLDT DATE = 6/30/2011	CHECKED - AB	REVISED -			SCALE: NONE		SHEET 2 OF 7 SHEETS		STA.	TO STA.
		DATE - 07/01/2011	REVISED -					FED. ROAD DIST. NO.		ILLINOIS FED. AID PROJECT	CONTRACT NO. 76C76

FOR INFORMATION ONLY

PROJECT NO.	REV.	DATE	BY
F.A.I. 7	ST. CLAIR	DS	43
FOR ROAD DIST. NO. 4 ILLINOIS FED. AID PROJECT			



For Continuation See Sh. #16

For Drainage Layout see General Plan

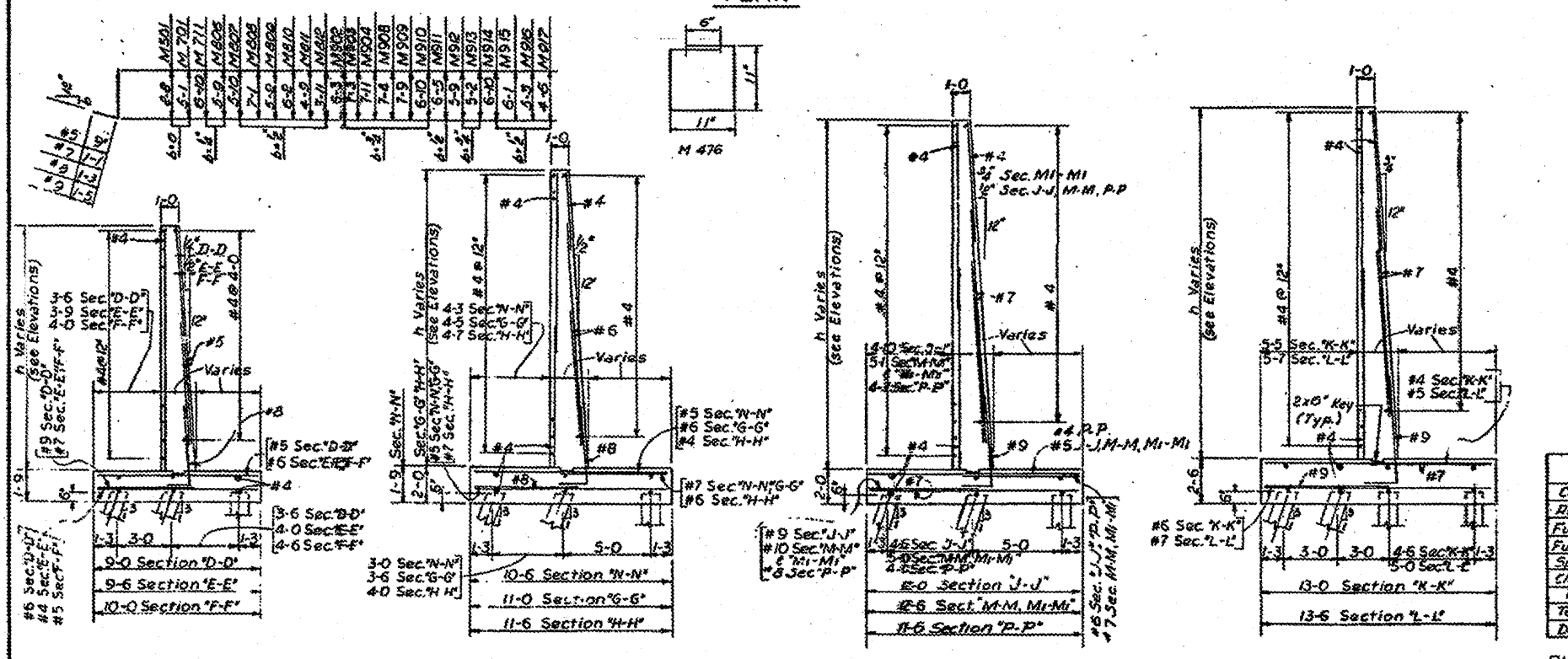
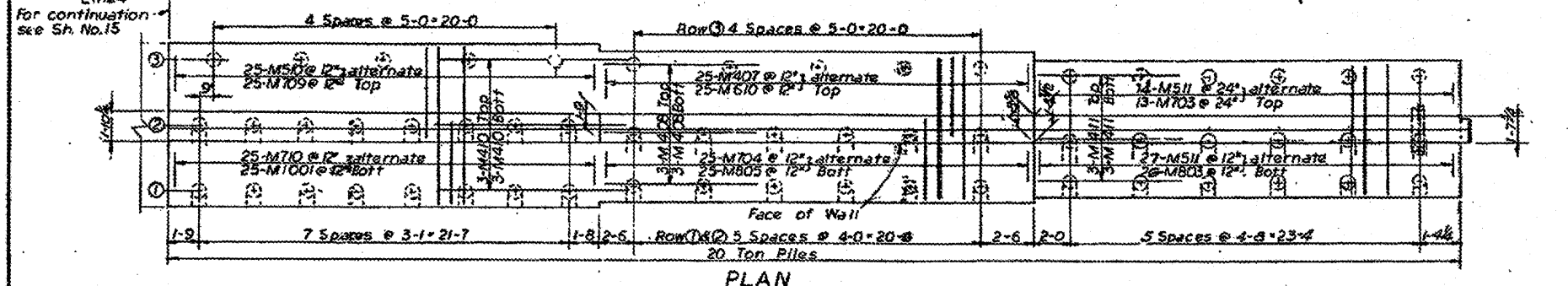
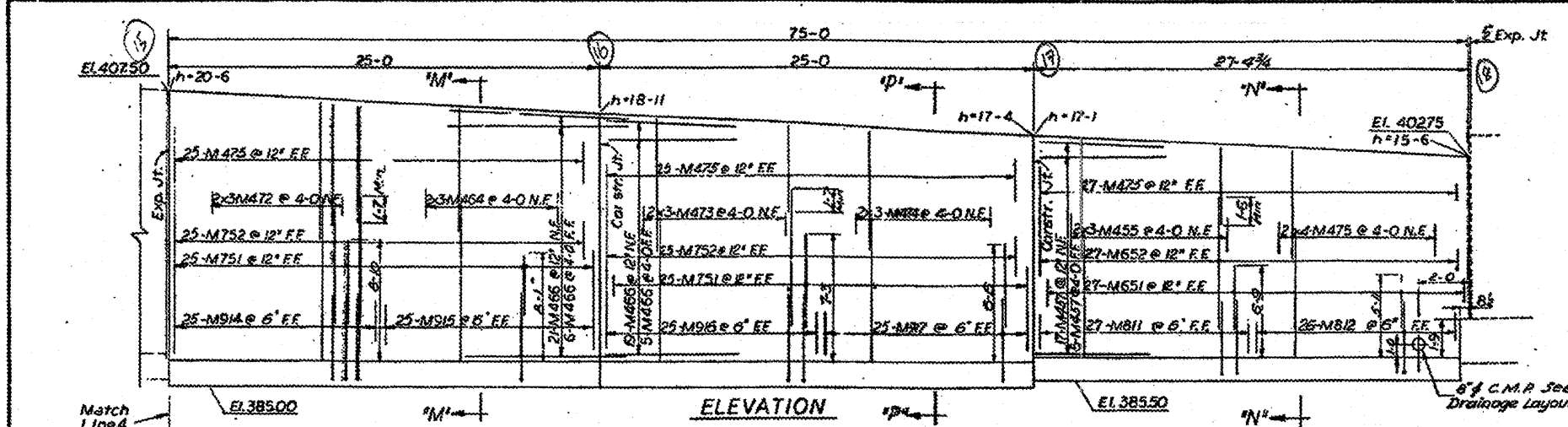
Designed by: FZ
Drawn by: E.M.
Checked by: S.K.

STATE OF ILLINOIS
DEPARTMENT OF PUBLIC WORKS & BLDGS.
DIVISION OF HIGHWAYS
&
CITY OF EAST ST. LOUIS
EAST ST. LOUIS EXPRESSWAY
RETAINING WALL "M"
DETAILS
H.W. LOCHNER, INC.
ENGINEERS
CHICAGO, ILLINOIS
DATE: MAY 1958 SHEET NO. 15.

FILE NAME =	USER NAME = Bhatta	DESIGNED -	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	EXISTING RETAINING WALL PLANS	F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.	
9FILEL6	PLOT SCALE = 48,000' / in.	DRAWN - GF	REVISED -			TO	82-1-B-2	ST. CLAIR	399	364	
	PLOT DATE = 6/30/2011	CHECKED - AB	REVISED -			SCALE: NONE SHEET 3 OF 7 SHEETS STA. TO STA.					
		DATE - 07/01/2011	REVISED -			FED. ROAD DIST. NO. ILLINOIS FED. AID PROJECT CONTRACT NO. 76C76					

FOR INFORMATION ONLY

PROJECT NO.	SHEET NO.	COUNTY	TOTAL SHEETS
FAI-7	202	St. Clair	56
DATE: MAY 1958		CHICAGO, ILLINOIS	



BAR SCHEDULE				
LOC	MARK	NO. REQ'D	SIZE	LENGTH
M402	20	#4	14-6	---
M403	24	---	12-0	---
M404	30	---	5-3	---
M405	15	---	6-3	---
M406	73	---	9-0	---
M407	38	---	11-0	---
M408	67	---	24-6	---
M409	50	---	12-6	---
M410	21	---	26-0	---
M411	6	#4	28-8	---

BAR SCHEDULE				
LOC	MARK	NO. REQ'D	SIZE	LENGTH
M501	15	#5	5-5	---
M504	15	---	7-3	---
M505	15	---	8-6	---
M506	13	---	9-6	---
M507	13	---	10-6	---
M508	25	---	11-6	---
M509	180	---	13-0	---
M510	50	---	12-0	---
M511	41	#5	10-0	---

BAR SCHEDULE				
LOC	MARK	NO. REQ'D	SIZE	LENGTH
M903	50	#9	8-8	---
M904	25	---	9-4	---
M905	25	---	7-8	---
M906	50	---	8-3	---
M907	150	---	8-5	---
M908	75	---	8-9	---
M909	150	---	9-2	---
M910	25	---	8-3	---
M911	30	---	7-10	---
M912	25	---	7-2	---
M913	25	---	6-7	---
M914	25	---	8-3	---
M915	25	---	7-6	---
M916	25	---	6-8	---
M917	25	#9	5-4	---
M1001	50	#10	8-4	---

BAR SCHEDULE				
LOC	MARK	NO. REQ'D	SIZE	LENGTH
M451	4	#4	7-8	---
M452	15	---	7-7	---
M453	38	---	15-2	---
M454	4	---	10-2	---
M455	6	---	9-0	---
M456	46	---	12-0	---
M457	22	---	26-6	---
M458	4	---	13-3	---
M459	20	---	14-6	---
M460	84	---	13-6	---
M461	3	---	15-10	---
M462	3	---	15-10	---
M463	3	---	18-0	---
M464	18	---	10-6	---
M465	108	---	24-6	---
M466	219	---	26-0	---
M467	12	---	11-8	---
M468	225	---	9-3	---
M469	18	---	11-6	---
M470	6	---	11-3	---
M471	24	---	11-0	---
M472	12	---	10-9	---
M473	6	---	10-0	---
M474	6	---	9-6	---
M475	136	---	8-8	---
M476	5	---	4-2	---
M477	4	#4	8-0	---
M551	10	#5	10-10	---
M552	10	---	4-0	---

BAR SCHEDULE				
LOC	MARK	NO. REQ'D	SIZE	LENGTH
M603	38	#8	6-8	---
M604	12	---	6-10	---
M605	25	---	7-1	---
M606	20	---	7-0	---
M607	19	---	7-1	---
M608	19	---	8-4	---
M609	25	---	6-3	---
M610	25	---	7-3	---
M611	27	---	6-0	---
M612	26	#8	5-2	---
M601	7	#9	6-4	---
M902	75	#9	7-8	---

BILL OF MATERIALS		
Class "A" Concrete	C.Y.	882.9
Reinforcement bars	L.B.	78,970
Furn. Crecosated Piles (Up to 200)	L.F.	640
Furn. Crecosated Piles (201 to 300)	L.F.	8667
Special Excavation	C.Y.	16,344
Class "A" Excavation for Structures	C.Y.	557
8" Part. C.M.P.	L.F.	448
Test Pile (Timber)	EA.	1
Driving Timber Piles	L.F.	9307

FILE DATA:
 32-15 Ton piles, estimated average length 20 ft.
 321-20 Ton piles, estimated average length 27 ft.
 Test pile indicated thus ⊗

NOTE: For General Notes see Sh. No. 1
 For Expansion Jt., Construction Jt. & Drainage details see Sh. No. 15.

STATE OF ILLINOIS
 DEPARTMENT OF PUBLIC WORKS & BLDGS.
 DIVISION OF HIGHWAYS
 &
 CITY OF EAST ST. LOUIS
EAST ST. LOUIS EXPRESSWAY

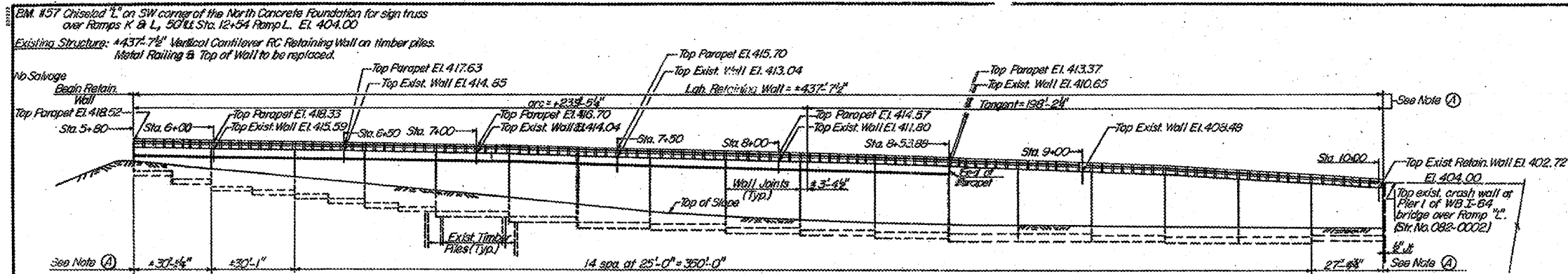
RETAINING WALL "M"
 DETAILS

H. W. LOCHNER, INC.
 ENGINEERS
 DATE: MAY 1958 CHICAGO, ILLINOIS SHEET NO. 16

FOR INFORMATION ONLY

ROUTE NO.	SEC.	COUNTY	TOTAL SHEETS	SHEET NO.
70	#	ST. CLAIR	163	131
STA.	TO STA.		PROJECT	
			ILLINOIS	
FED. ROAD DIST. NO.	PROJECT			

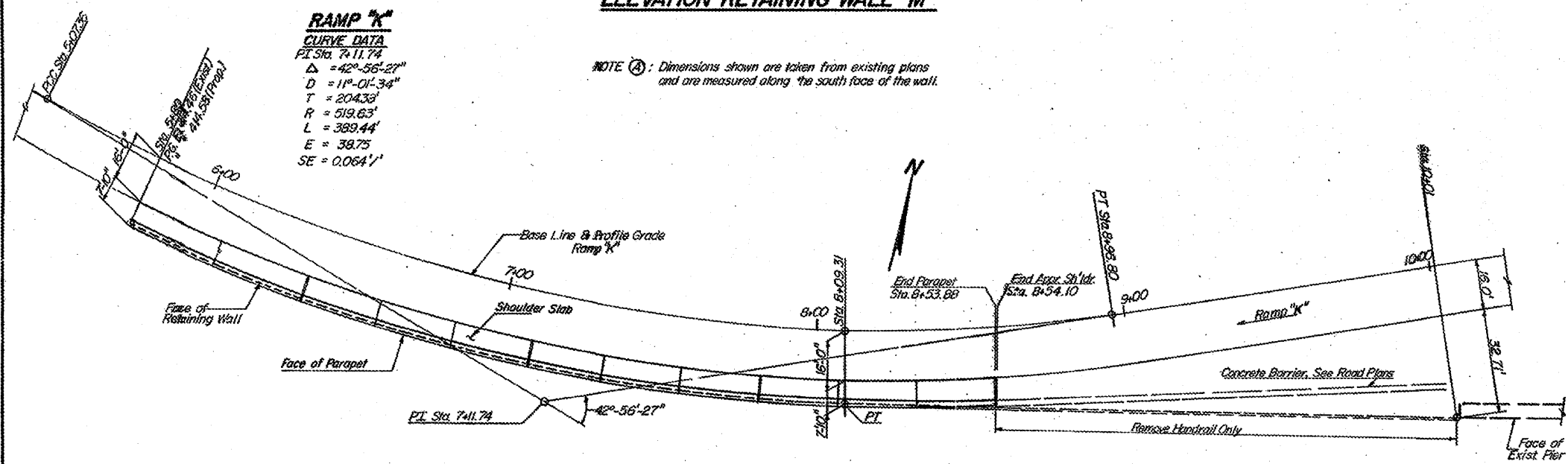
#82-(1,2)R-2 SH 1.1 of 3



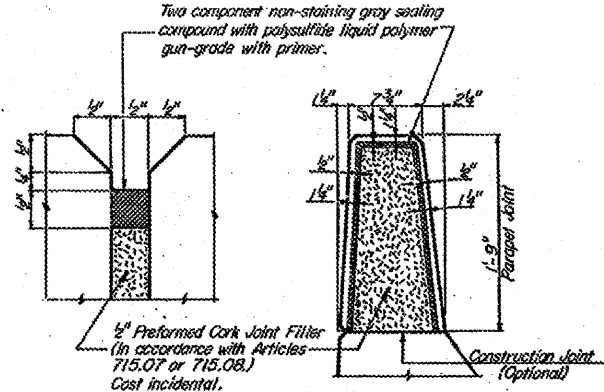
ELEVATION-RETAINING WALL "M"

RAMP "K"
CURVE DATA
 PT Sta. 7+11.74
 $\Delta = 42^\circ-56'-27''$
 $D = 11^\circ-01'-34''$
 $T = 204.33'$
 $R = 519.63'$
 $L = 399.44'$
 $E = 39.75'$
 $SE = 0.0641'$

NOTE (A): Dimensions shown are taken from existing plans and are measured along the south face of the wall.



PLAN-RETAINING WALL "M"



DETAILS OF PARAPET JOINT

DESIGN STRESSES

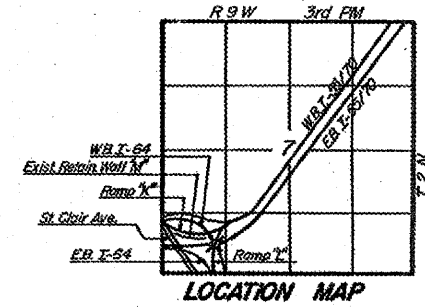
Existing - 1959 AASHTO Specifications
 $f_c = 1,000$ psi. (Substructure with Earth Pressure)
 $f_s = 20,000$ psi. (Reinforcement)

Proposed - 1989 AASHTO Specifications
 $f_c = 3,500$ psi.
 $f_y = 60,000$ psi. (Reinforcement)

GENERAL NOTES

- Construction Specifications: The 1988 edition of the State of Illinois Department of Transportation's "Standard Specifications for Road and Bridge Construction," addenda and the Special Provisions shall govern.
- Reinforcement bars shall conform to the requirements of AASHTO M-31, M-42 or M-53, Grade 60.
- Plan dimensions and details relative to the existing structure have been taken from existing plans or from field surveys, and are subject to nominal construction variations. It shall be the Contractor's responsibility to verify such dimensions and details in the field and make necessary approved adjustments prior to construction or ordering of materials. Such variations shall not be cause for additional compensation for a change in scope of work. However, the Contractor will be paid for the quantity actually furnished at the unit price bid for the work.
- All transverse and longitudinal dimensions are measured horizontally.
- All dimensions are measured at a temperature of 50° F.
- Expansion bolts shall consist of approved expansion anchors, providing minimum certified proof load = 4,000 lbs., and 3/4" x 12" hooked bolts.
- The light standard originally on the retaining wall was previously removed.

TOTAL BILL OF MATERIAL		
Item	Unit	Total
Class X Concrete	Cu. Yd.	132.1
Reinforcement Bars Epoxy Coated	Lbs.	19,540
Concrete Removal	Cu. Yd.	10.3
Earth Excavation	Cu. Yd.	32.9
Protective Coat	Sq. Yd.	313.1
Handrail Removal	Lin. Ft.	439.5
Expansion Bolts 3/4" x 12"	Each	188



LOCATION MAP

GENERAL PLAN & ELEVATION RETAINING WALL "M"

FAI Route 70
 SECTION 82-(1,2) R-2
 STA. 5+80 to STA. 10+01
 ST. CLAIR COUNTY

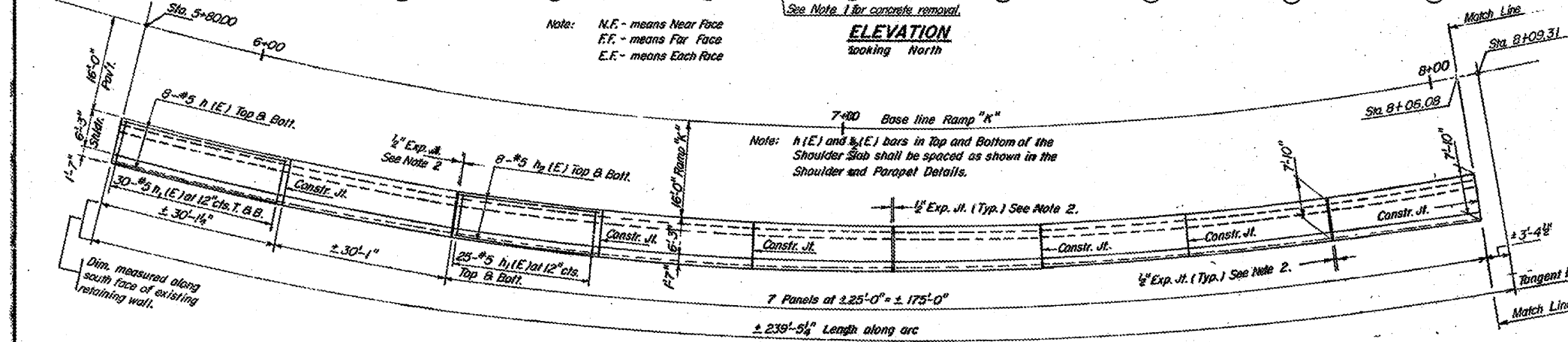
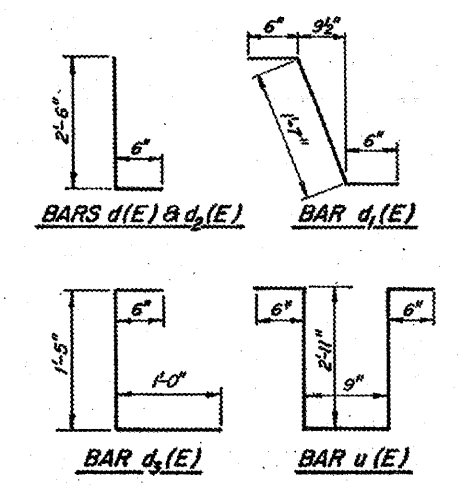
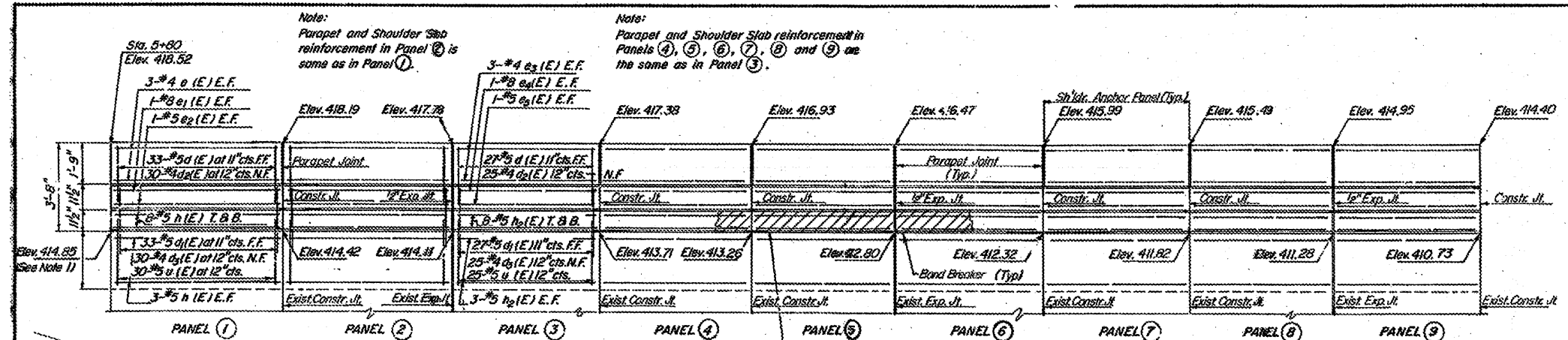
Des. RLL Ch. Dr.
SANDOVAL ENGINEERS, INC.

APPROVED
 Ralph S. Anderson
 Paul R. Anderson
 4-9-27-1990

FILE NAME =	USER NAME = bhata	DESIGNED -	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	EXISTING RETAINING WALL PLANS	F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.	
#FILEL#		DRAWN - GF	REVISED -			70	82-1-B-2	ST. CLAIR	399	366	
	PLOT SCALE = 48,000' / in.	CHECKED - AB	REVISED -			CONTRACT NO. 76C76					
	PLOT DATE = 6/30/2011	DATE - 07/01/2011	REVISED -			FED. ROAD DIST. NO. ILLINOIS FED. AID PROJECT					

FOR INFORMATION ONLY

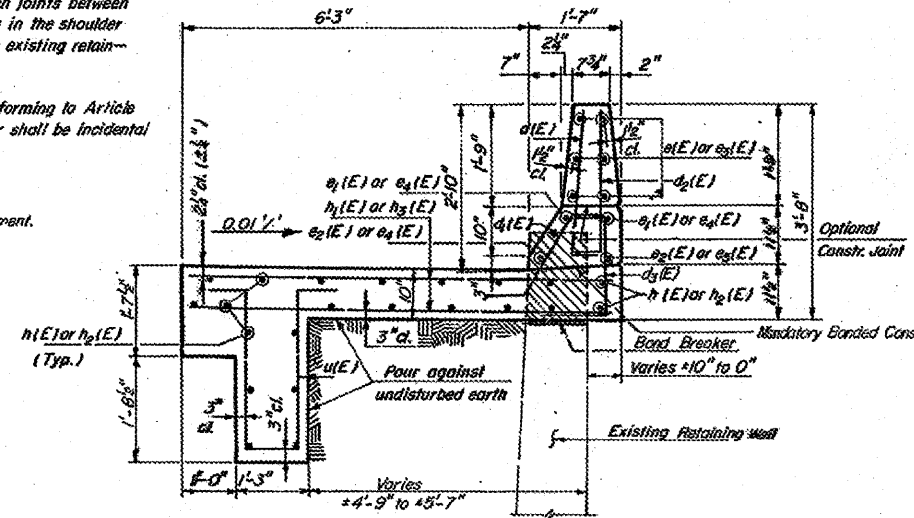
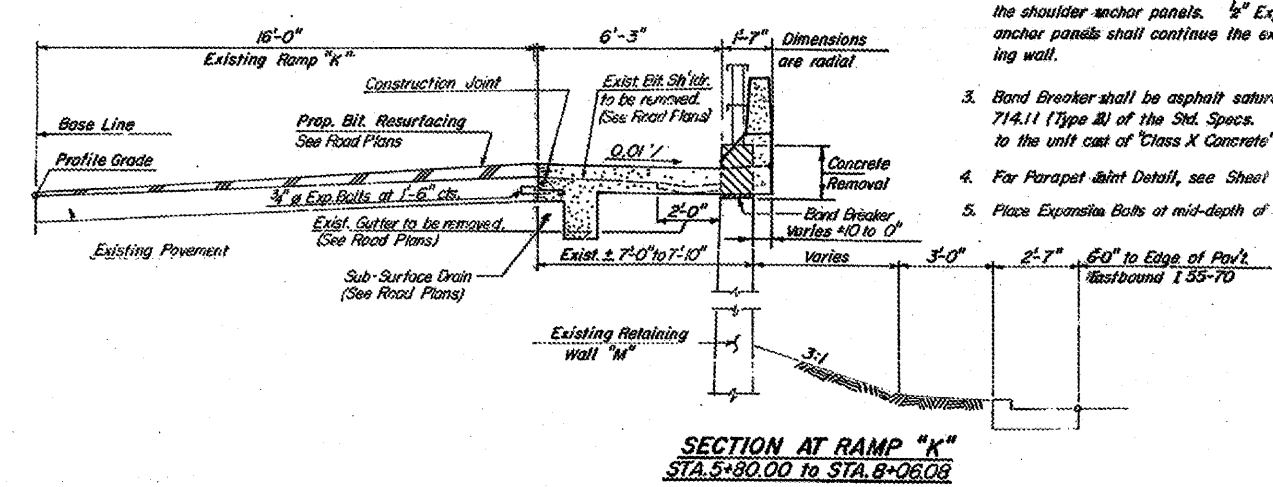
ROUTE NO.	SEC.	COUNTY	TOTAL SHEETS	SHEET NO.
FAI-70	#	ST. CLAIR	163	132
STA.	TO STA.	PROJECT		
82-(1,2) R-2		Sh. 1, 2 of 3.		



BILL OF MATERIAL

Bar No.	Size	Length	Shape
Sta. 5+80.00 to Sta. 8+06.08			
d1(E)	#5	3'-0"	L
d2(E)	#5	2'-7"	L
d3(E)	#4	3'-0"	J
d4(E)	#4	2'-11"	J
e1(E)	#4	25'-9"	
e2(E)	#8	25'-9"	
e3(E)	#4	25'-9"	
e4(E)	#4	24'-9"	
e5(E)	#5	24'-9"	
b1(E)	#5	25'-9"	
b2(E)	#5	7'-7"	
b3(E)	#5	24'-9"	
u(E)	#5	7'-7"	L
Class X Concrete Cu. Yd. 107.7			
Reinf. Bars Epoxy Coated Lbs. 15,990			
Concrete Removal Cu. Yd. 8.6			
Earth Excavation Cu. Yd. 27.1			
Protective Coat Sq. Yd. 259.9			
Handrail Removal L.in. Ft. 236			
Expansion Bolts 3/4" x 12" Each 155			

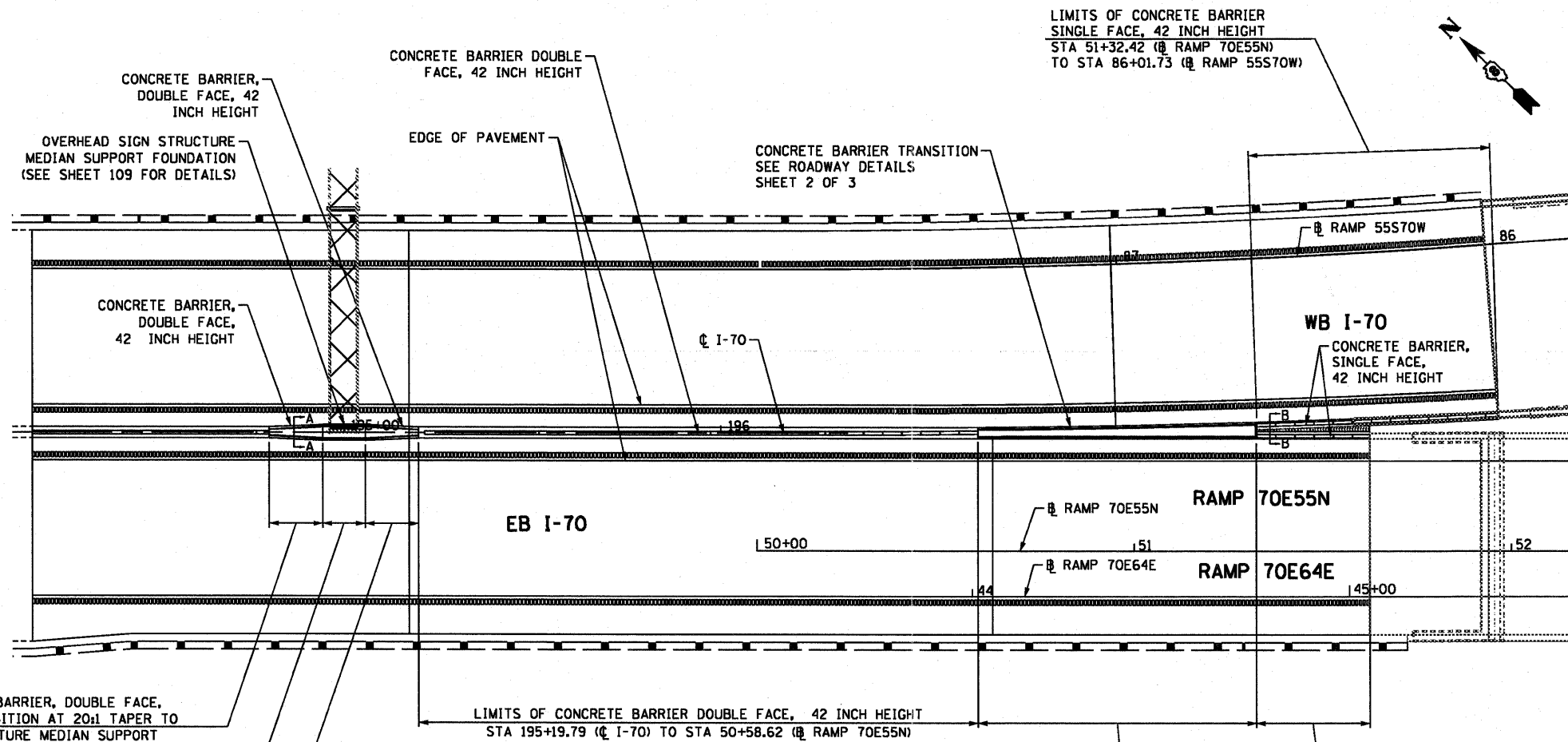
- Notes:
- Top of existing retaining wall (shown hatched) to be removed to the elevations shown on the ELEVATION VIEW, and all existing reinforcement shall be removed or cut flush for placement of the band breaker. Cost of cutting bars and furnishing and placing band breaker are included in the unit price for "Concrete Removal".
 - Except where shown in the PLAN VIEW, use construction joints between the shoulder anchor panels. 1/2" Expansion joints shown in the shoulder anchor panels shall continue the expansion joints in the existing retaining wall.
 - Band Breaker shall be asphalt saturated roofing felt, conforming to Article 714.11 (Type B) of the Std. Specs. Cost of Band Breaker shall be incidental to the unit cost of "Class X Concrete".
 - For Parapet Joint Detail, see Sheet #1.
 - Place Expansion Bolts at mid-depth of existing concrete pavement.



SHOULDER & PARAPET DETAILS
STA. 5+80.00 to STA. 8+06.08

FAI Route 70
SECTION 82-(1,2) R-2
STA. 5+80 to STA. 10+01
ST. CLAIR COUNTY

SANDOVAL ENGINEERS, INC.

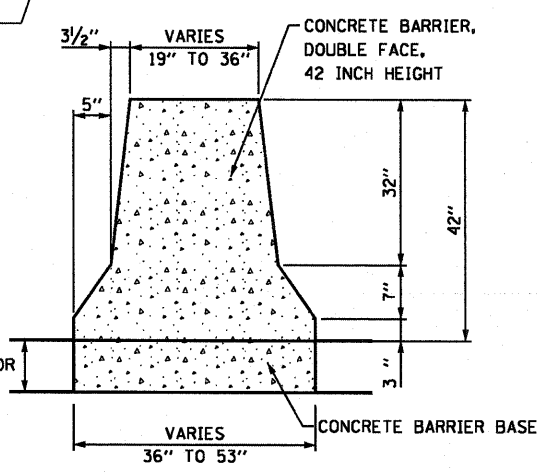


- NOTES:**
- DIMENSIONS AND REINFORCEMENT DETAILS APPLY TO ALL CONCRETE BARRIER, SINGLE FACE, 42 INCH HEIGHT (SPECIAL) (SPECIAL) SHOWN IN THE PLANS
 - THERE SHALL BE A MINIMUM 6" OVERLAP BETWEEN CONCRETE THICKNESS IN BARRIER WALL BASE AND CONCRETE THICKNESS IN ADJACENT SHOULDER TO PROVIDE ADEQUATE CONCRETE ABOVE AND BELOW THE TIE BAR.
 - TOP SHOULDER EDGE OF BARRIER BASE GUTTER SHALL MATCH THE TOP OF SHOULDER ELEVATION.
 - CONTRACTION AND EXPANSION JOINTS SHALL BE IN ACCORDANCE WITH ARTICLE 637.08 OF THE STANDARD SPECIFICATIONS.
 - REINFORCING BARS SHALL MEET THE REQUIREMENTS OF AASHTO M31 (ASTM A615), GRADE 60, AND SHALL CONFORM TO SECTION 508 OF THE STANDARD SPECIFICATIONS.
 - REINFORCING BARS DESIGNATED "E" SHALL BE EPOXY COATED.
 - REINFORCEMENT BENDING DETAILS SHALL BE IN ACCORDANCE WITH THE "MANUAL OF STANDARD PRACTICE FOR DETAILING REINFORCED CONCRETE STRUCTURES", ACI 315, LATEST EDITION.
 - REINFORCEMENT BAR BENDING DIMENSIONS ARE OUT TO OUT.
 - 3/4" PREFORMED JOINT FILLER SHALL BE USED WHERE CONCRETE BARRIER, SINGLE FACE, 42 INCH HEIGHT MEETS CONCRETE BARRIER, SINGLE FACE, 42 INCH HEIGHT (SPECIAL). PAYMENT SHALL BE INCLUDED IN COST OF CONCRETE BARRIER, SINGLE FACE, 42 INCH HEIGHT

LIMITS OF CONCRETE BARRIER, DOUBLE FACE, 42 INCH HEIGHT TRANSITION AT 20:1 TAPER TO OVERHEAD SIGN STRUCTURE MEDIAN SUPPORT FOUNDATION STA 194+80.21 TO STA 194+94.37

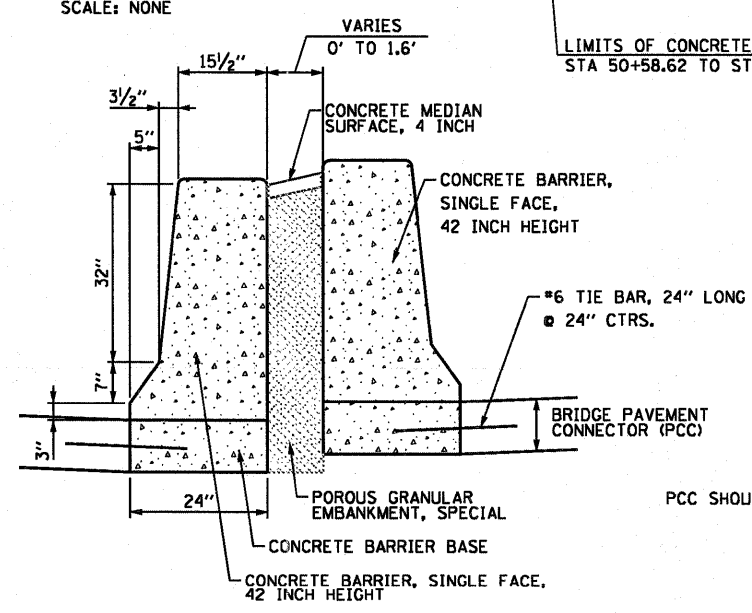
LIMITS OF OVERHEAD SIGN STRUCTURE MEDIAN SUPPORT FOUNDATION STA 194+94.37 TO STA 195+05.63

LIMITS OF CONCRETE BARRIER, DOUBLE FACE, 42 INCH HEIGHT TRANSITION AT 20:1 TAPER FROM OVERHEAD SIGN STRUCTURE MEDIAN SUPPORT FOUNDATION STA 195+05.63 TO STA 195+19.79



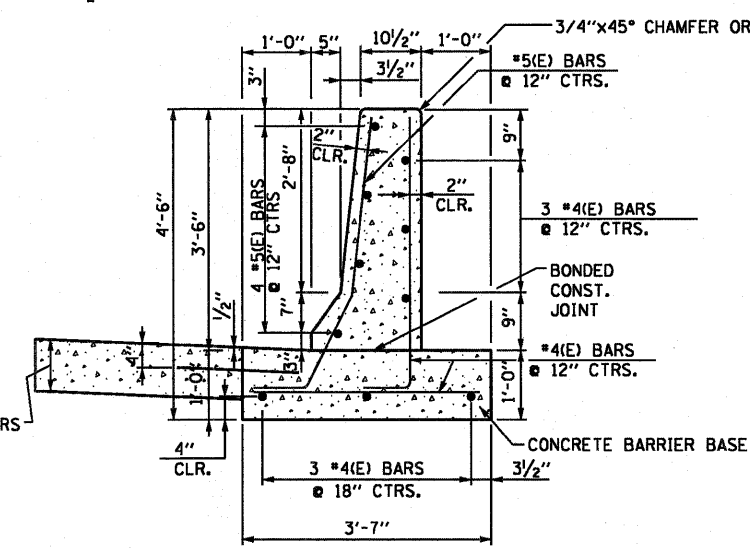
SECTION A-A
CONCRETE BARRIER, DOUBLE FACE, 42 INCH HEIGHT
TRANSITION TO OVERHEAD SIGN STRUCTURE
MEDIAN SUPPORT FOUNDATION

SCALE: NONE
 STA 194+80.21 TO STA 194+94.37 (I-70)
 STA 195+05.63 TO STA 195+19.79 (I-70)



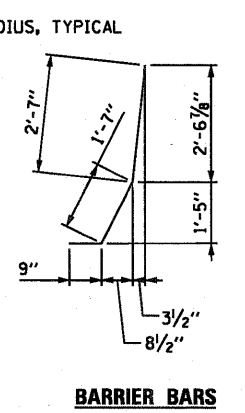
SECTION B-B
CONCRETE BARRIER, SINGLE FACE, 42 INCH HEIGHT

SCALE: NONE
 STA 51+32.42 TO STA 51+62.00 (RAMP 70E55N)
 STA 51+32.42 (RAMP 70E55N) TO STA 86+01.73 (RAMP 55S70W) AND
 STA 57+91.08 TO STA 58+51.43 (RAMP 70E64E) NOT SHOWN



SECTION C-C
CONCRETE BARRIER, SINGLE FACE, 42 INCH HEIGHT (SPECIAL)

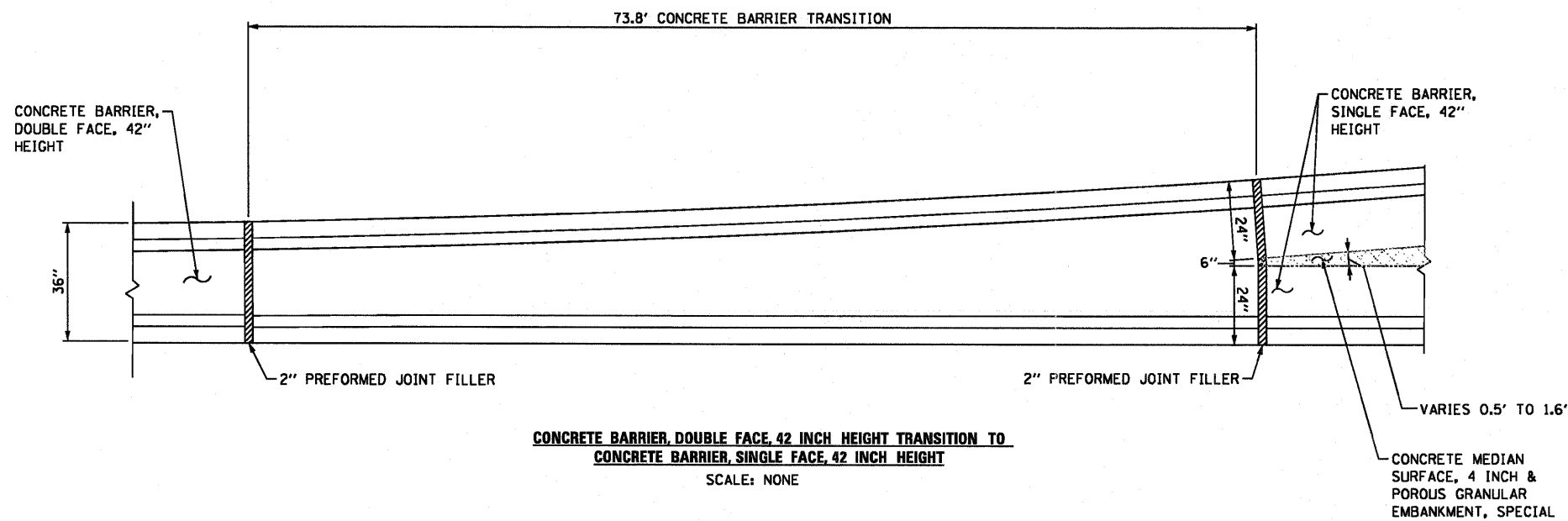
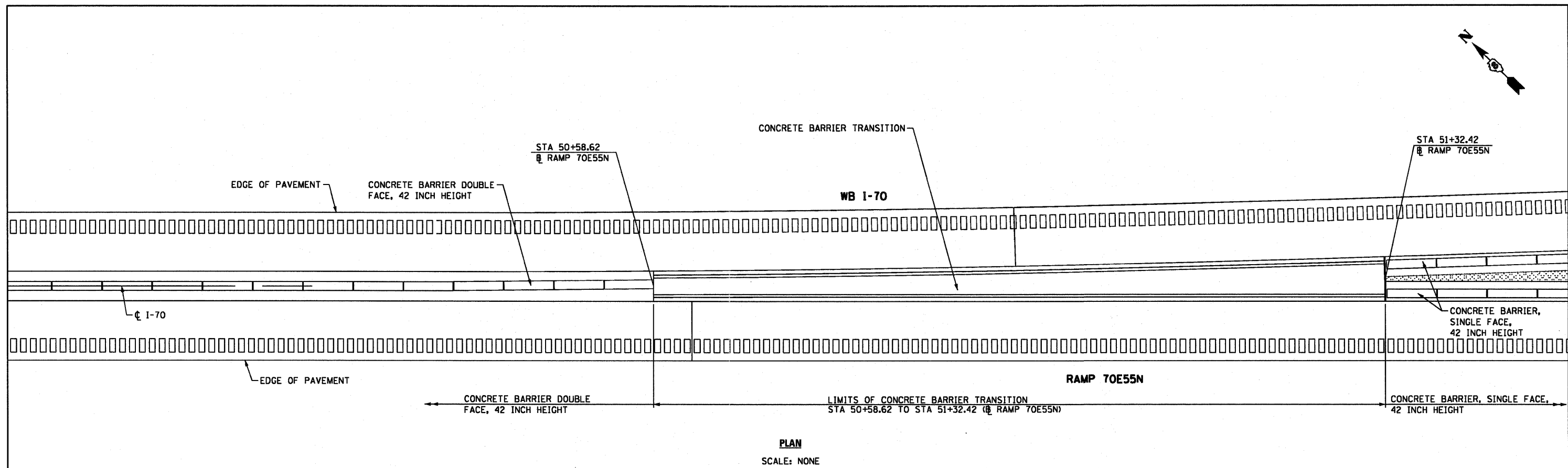
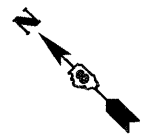
SCALE: NONE
 STA 75+08.00 TO STA 77+50.06 (RAMP 70E55N) - NOT SHOWN
 STA 19+51.32 TO STA 20+00.95 - (RAMP P) NOT SHOWN
 STA 92+03.08 TO STA 97+94.43 - (SB I-55) NOT SHOWN



BARRIER BARS

USER NAME = searab	DESIGNED OP	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	ROADWAY DETAILS		F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.			
PLT SCALE = 48.000' / 1"	DRAWN OP	REVISED -				64/998	82-1-B-2	ST. CLAIR	399	369			
PLT DATE = 6/30/2011	CHECKED DBM	REVISED -				SCALE: NONE		SHEET NO. 1 OF 3 SHEETS		STA.	TO STA.	CONTRACT NO. 76C76	
	DATE 07-01-11	REVISED -				SCALE: NONE		SHEET NO. 1 OF 3 SHEETS		STA.	TO STA.	CONTRACT NO. 76C76	
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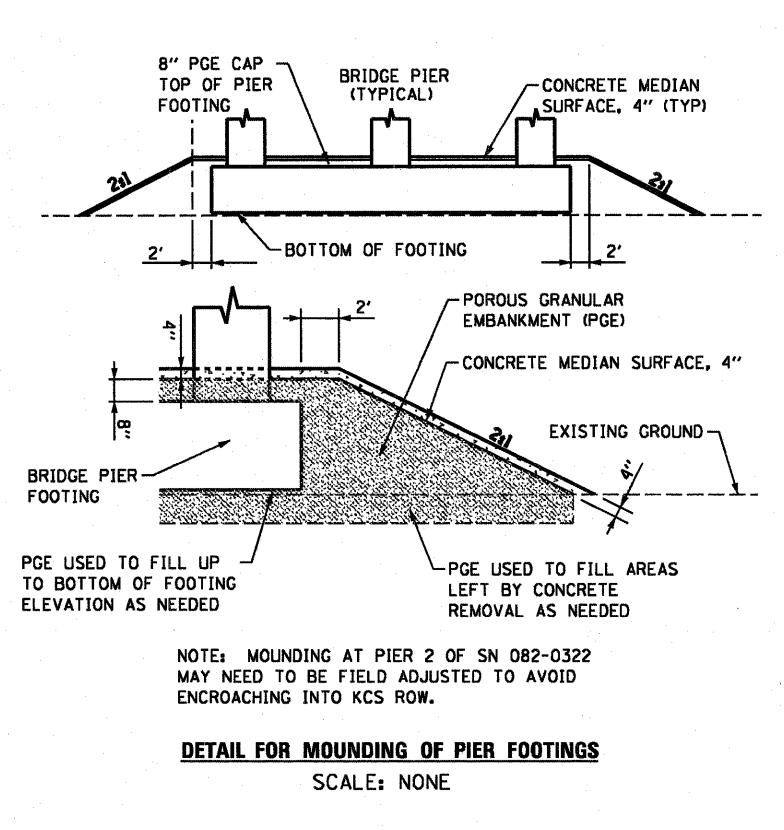
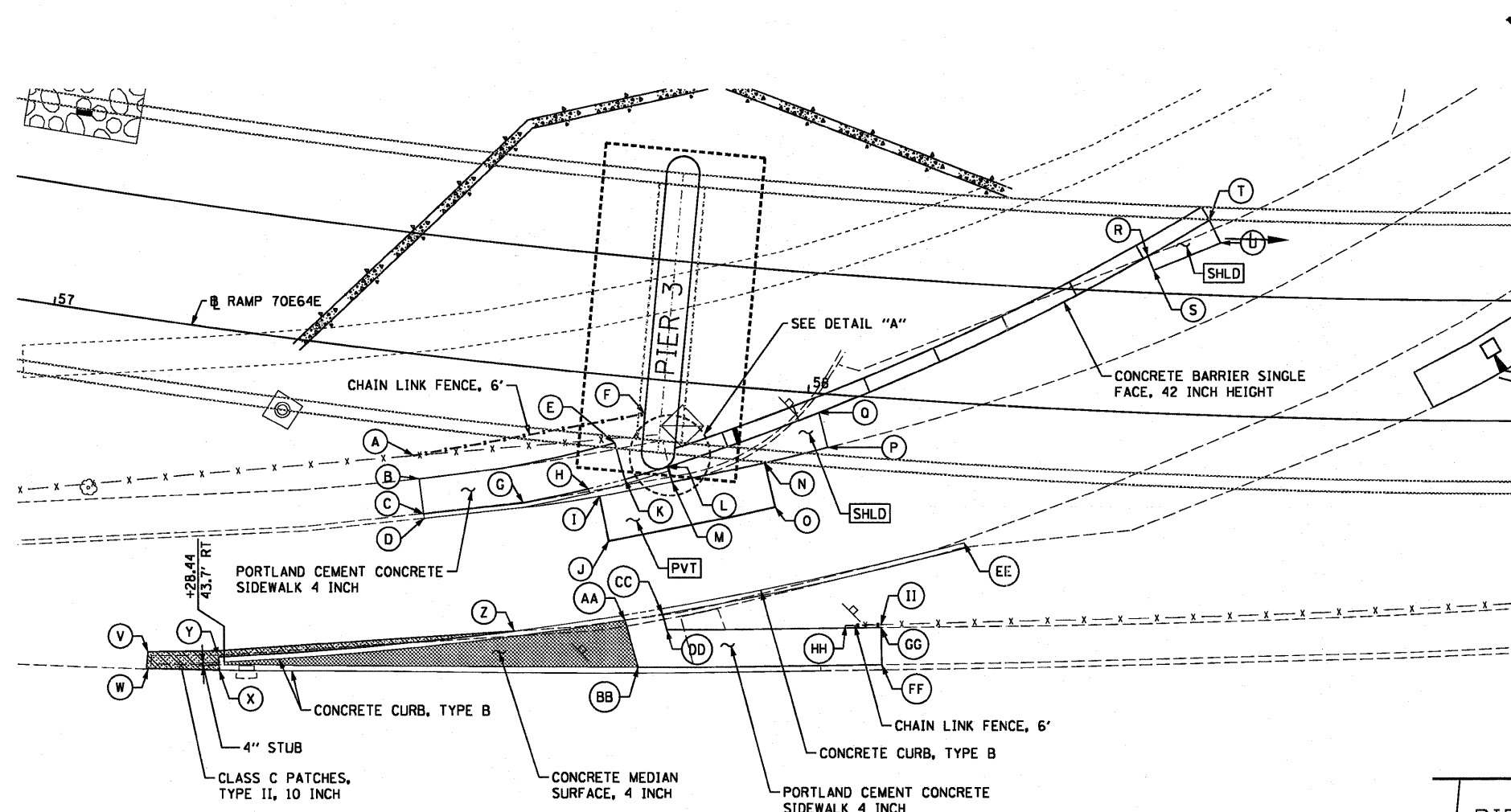
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GENERAL NOTES

1. CONTRACTOR OPTIONS FOR FILL BETWEEN BARRIER WALLS (WHEN NEEDED):
 - A. PLACE 4" CLASS SI CONCRETE.
 - B. PLACE 12" OF GRANULAR MATERIAL AT BASE BETWEEN WALLS.
 - C. PLACE GRANULAR MATERIAL FROM BASE TO BOTTOM OF 4" CAP. FORMING MATERIAL FOR 4" CAP MAY REMAIN IN PLACE.
2. REINFORCING STEEL SHALL EXTEND CONTINUOUS THROUGH CONSTRUCTION JOINTS. AT JOINTS WITH EXISTING BARRIER WALL TO REMAIN, SEE STANDARD 637006 FOR JOINT DETAILS.
3. EXPANSION JOINTS SHOWN ON THIS DRAWING SHALL BE PREFORMED JOINT MATERIAL (BITUMINOUS TYPE) FILLER SHALL MEET AASHTO DESIGNATION M-33.
4. ALL REINFORCING STEEL SHALL BE GRADE 40 OR GRADE 60 MEETING THE REQUIREMENTS OF AASHTO M31 OR ASTM A615.
5. ALL WORK DETAILED HEREIN SHALL BE INCLUDED IN THE COST OF THE VARIOUS CONCRETE BARRIER PAY ITEMS.
6. PREFORMED JOINT FILLER SHALL BE INCLUDED IN THE COST OF THE CONCRETE BARRIER TRANSITION.
7. JOINTS SHALL BE CONSTRUCTED AS SHOWN ON THE PLANS AND IN ACCORDANCE WITH ARTICLE 637.08 OF THE STANDARD SPECIFICATIONS

USER NAME = searab	DESIGNED OP	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	ROADWAY DETAILS			F.A.I. RTE. 64/998	SECTION 82-1-B-2	COUNTY ST. CLAIR	TOTAL SHEETS 399	SHEET NO. 370	
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PLDT DATE = 6/30/2011	CHECKED DBM	REVISED -										
	DATE 07-01-11	REVISED -		FED. ROAD DIST. NO. ILLINOIS FED. AID PROJECT								

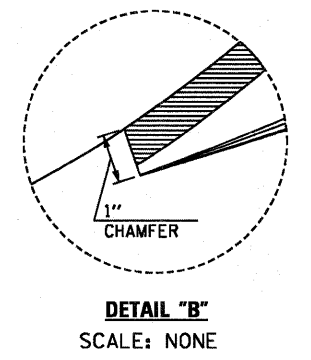
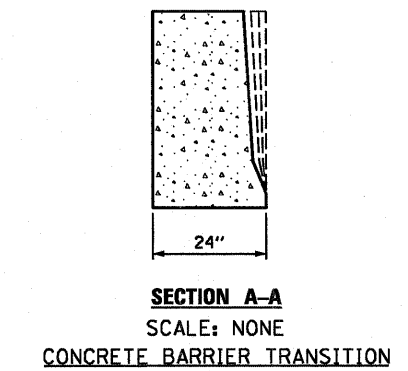
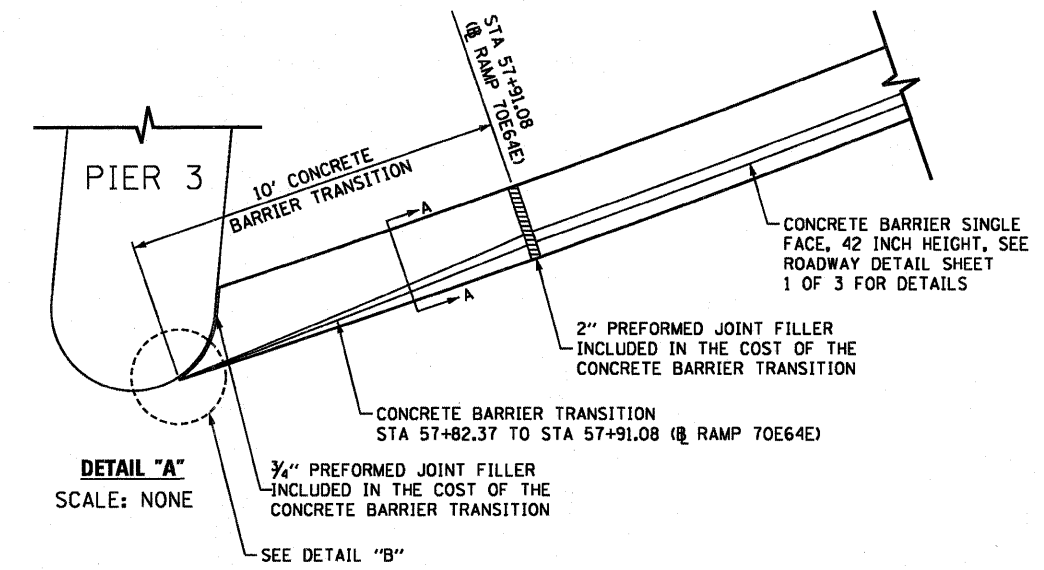


PVT - PCC PVT 10 JOINTED STAB SUBBASE HMA 4 AGG BASE CSE A 12
SHLD - PCC SHOULDERS 10 AGG BASE CSE A 12

POINT	STA	O/S	NOTES
A	57+49.33	13.4' RT	BEGIN CHAIN LINK FENCE, 6'
B	57+50.39	16.4' RT	EDGE OF PCC SIDEWALK
C	57+51.49	20.9' LT	EDGE OF PCC SIDEWALK/ BACK OF CONCRETE CURB
D	57+51.63	21.4' RT	FACE OF CONCRETE CURB
E	57+75.23	8.9' RT	EDGE OF PCC SIDEWALK, END OF SIDEWALK
F	57+78.84	4.6' RT	END CHAIN LINK FENCE, 6'
G	57+64.17	18.0' RT	BACK OF CONCRETE CURB
H	57+72.37	15.3' RT	BACK OF CONCRETE CURB, BEGIN DEPRESSED
I	57+73.95	16.1' RT	EDGE OF PCC PAVEMENT
J	57+75.70	21.8' RT	EDGE OF PCC PAVEMENT
K	57+77.01	13.5' RT	BACK OF CONCRETE CURB, END DEPRESSED
L	57+82.38	11.3' RT	BACK OF CONCRETE CURB, END OF CONCRTE CURB
M	57+83.20	13.3' RT	EDGE OF PCC PAVEMENT
N	57+95.02	9.7' RT	EDGE OF PCC PAVEMENT
O	57+96.83	15.4' RT	EDGE OF PCC PAVEMENT
P	58+03.08	7.0' RT	EDGE OF PCC SHOULDER
Q	58+01.59	2.5' RT	EDGE OF PCC SHOULDER
R	58+43.95	20.8' LT	EDGE OF PCC SHOULDER
S	58+44.78	19.0' LT	EDGE OF PCC SHOULDER

POINT	STA	O/S	NOTES
T	58+51.99	25.9' LT	EDGE OF PCC SHOULDER
U	58+53.60	23.0' LT	EDGE OF PCC SHOULDER
V	57+18.64	43.7' RT	EDGE OF CLASS C PATCHES
W	57+18.76	45.9' RT	EDGE OF CLASS C PATCHES/ EX EOP
X	57+27.95	44.8' RT	EDGE OF CLASS C PATCHES/ EX EOP
Y	57+27.64	43.1' RT	EDGE OF CLASS C PATCHES
Z	57+64.71	35.0' RT	EDGE OF CLASS C PATCHES
AA	57+78.74	32.1' RT	BACK OF CONCRETE CURB, BEGIN DEPRESSED
BB	57+80.97	38.1' RT	BACK OF CONCRETE CURB
CC	57+83.47	30.8' RT	BACK OF CONCRETE CURB, END DEPRESSED
DD	57+84.21	32.8' RT	EDGE OF PCC SIDEWALK
EE	58+21.61	18.3' RT	FACE OF CONCRETE CURB
FF	58+12.04	35.2' RT	BACK OF EX CONCRETE CURB
GG	58+11.64	30.3' RT	EDGE OF PCC SIDEWALK
HH	58+07.03	30.4' RT	BEGIN CHAIN LINK FENCE, 6'
II	58+11.60	29.9' RT	END CHAIN LINK FENCE, 6'

NOTES:
ALL STATIONS AND OFFSETS ARE TAKEN OF RAMP 70E64E

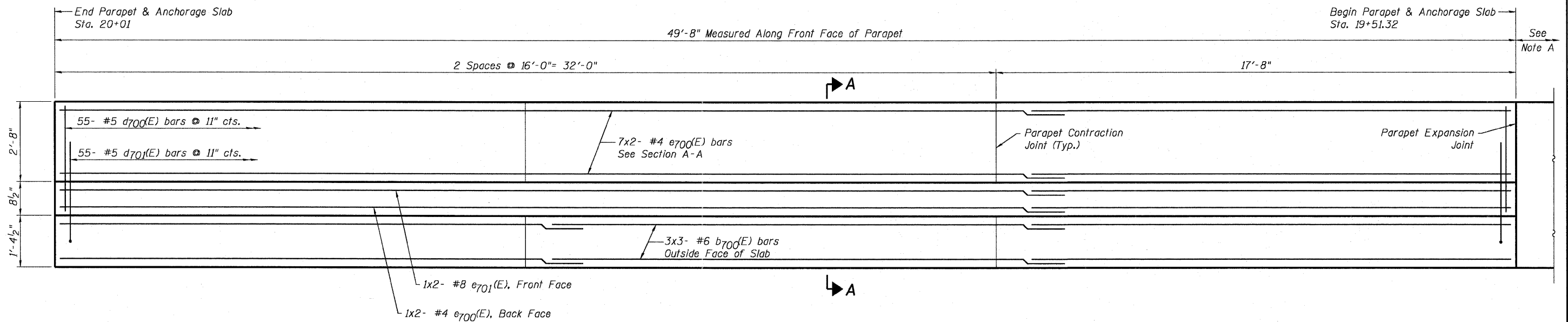


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PLOT SCALE = 20.000' / in.	CHECKED DBM	REVISED -		CONTRACT NO. 76C76				
PLOT DATE = 8/9/2011	DATE 08-12-11	REVISED -		SCALE: 1" = 10'	SHEET NO.	OF SHEETS	STA.	TO STA.
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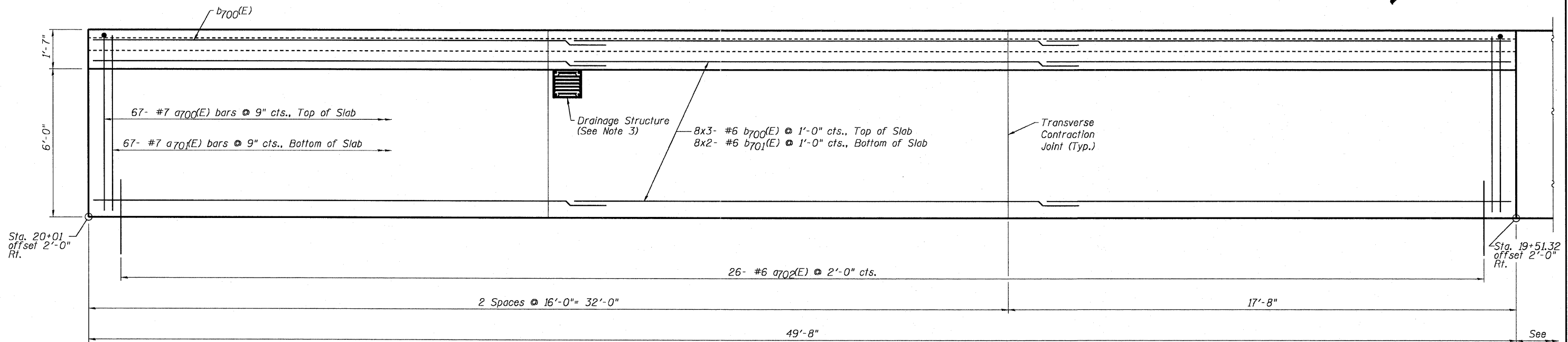
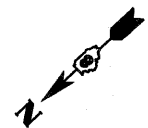
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	DATE 08-12-11	REVISED -														
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OUTSIDE ELEVATION OF PARAPET
(N.T.S.)

NOTE A:

Parapet & Anchorage Slab by
Others under contract 76C51.



PLAN - PARAPET & ANCHORAGE SLAB
(N.T.S.)

Min. Bar Laps

Bar	Length
#4	2'-7"
#6	3'-10"
#8	6'-9"

NOTES:

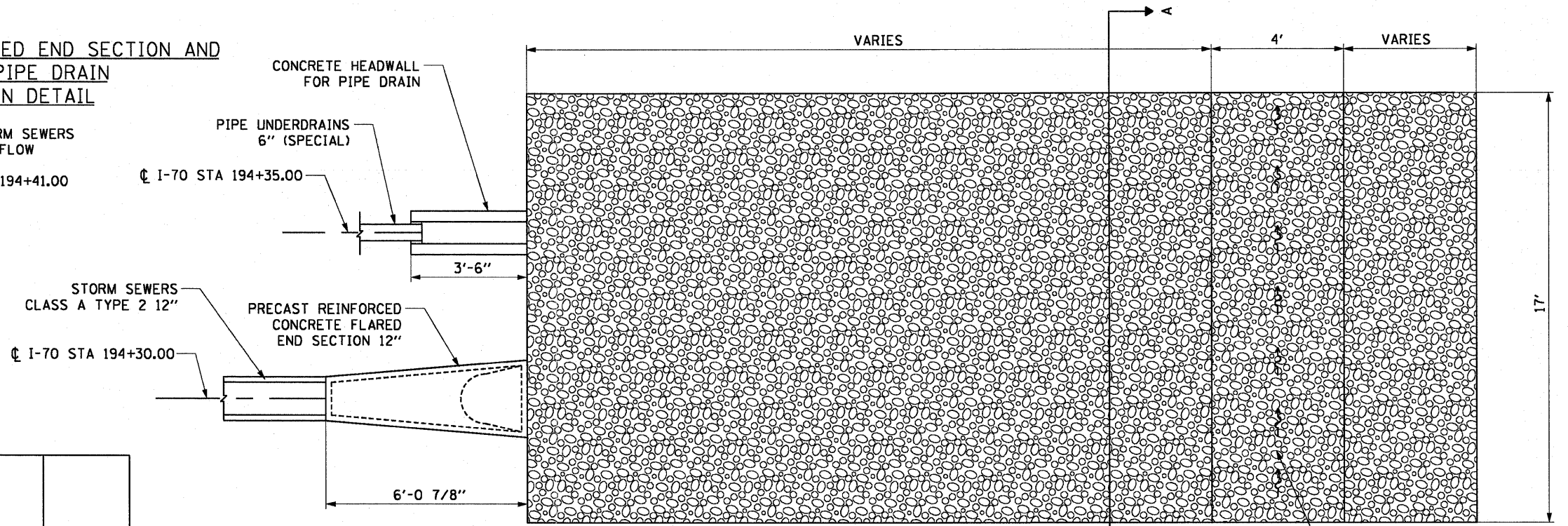
- Optional full depth construction joints with 1/2" chamfers may be placed in Anchorage slab and parapet at contraction joint location(s).
- Bars indicated thus 7x2-#6 etc. indicates 7 lines of bars with 2 lengths per line.
- For Drainage Structure location, type, and size, see drainage sheets.
- For Section A-A see sheet S-2.

FILE #	FILE NAME = DBTr-76C76-shr-MomentSlab-01.dgn	USER NAME = BhattA	DESIGNED - DEV	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	PARAPET & ANCHORAGE SLAB		F.A.I. RTE. 70	SECTION 82-1-B-2	COUNTY ST. CLAIR	TOTAL SHEETS 399	SHEET NO. 372
	PLOT SCALE = 0:2.00000 1' / in.	CHECKED - ATB	REVISOR -	DATE - 07-01-11		SCALE: N.T.S.	SHEET S-1 OF S-2 SHEETS	STA. 19+51.32 TO STA. 20+01	FED. ROAD DIST. NO.	ILLINOIS FED. AID PROJECT	CONTRACT NO. 76C76	

**PRECAST REINFORCED CONCRETE FLARED END SECTION AND
CONCRETE HEADWALL FOR PIPE DRAIN
STONE RIPRAP PROTECTION DETAIL**

FOR PIPE UNDERDRAINS AND STORM SEWERS
PERPENDICULAR TO DITCH FLOW

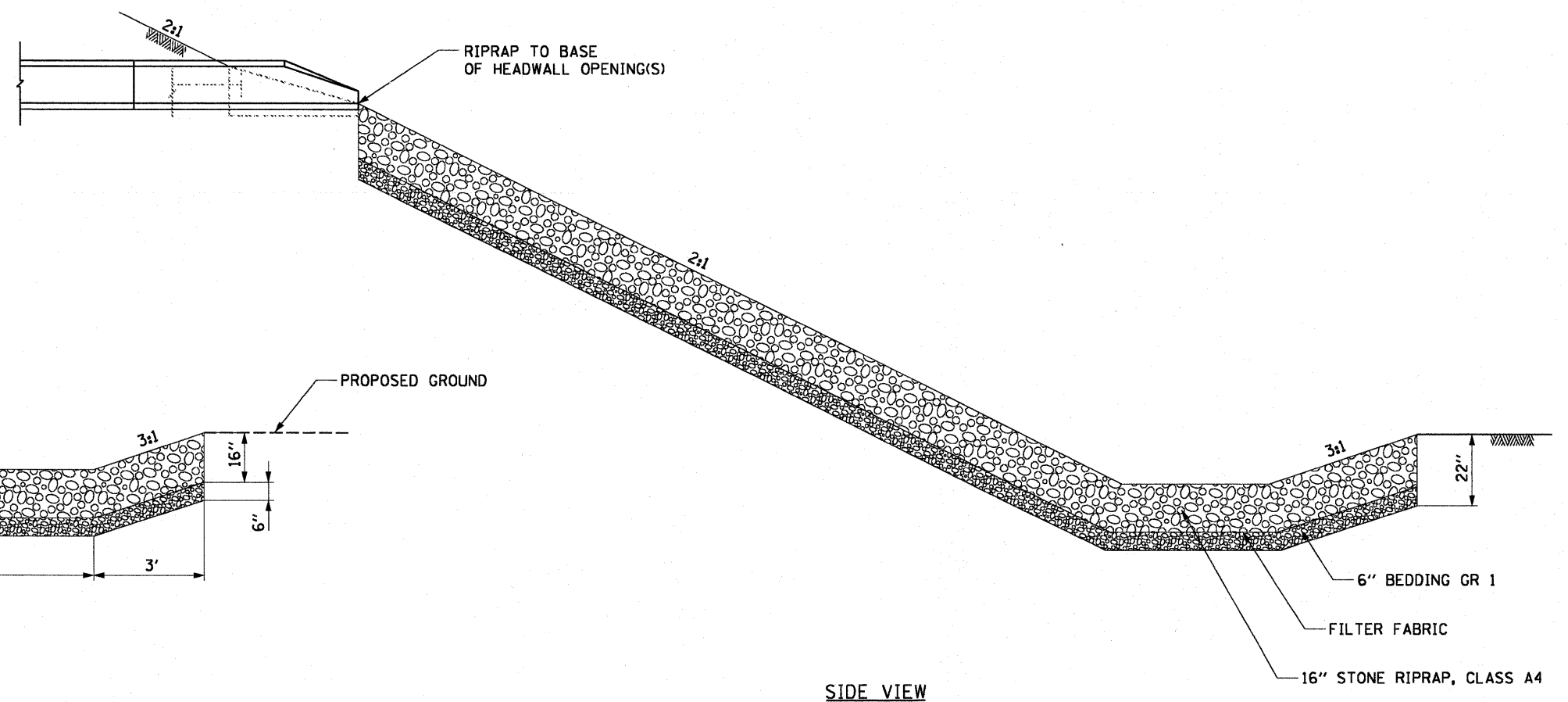
☉ I-70: STA 194+24.00 TO STA 194+41.00



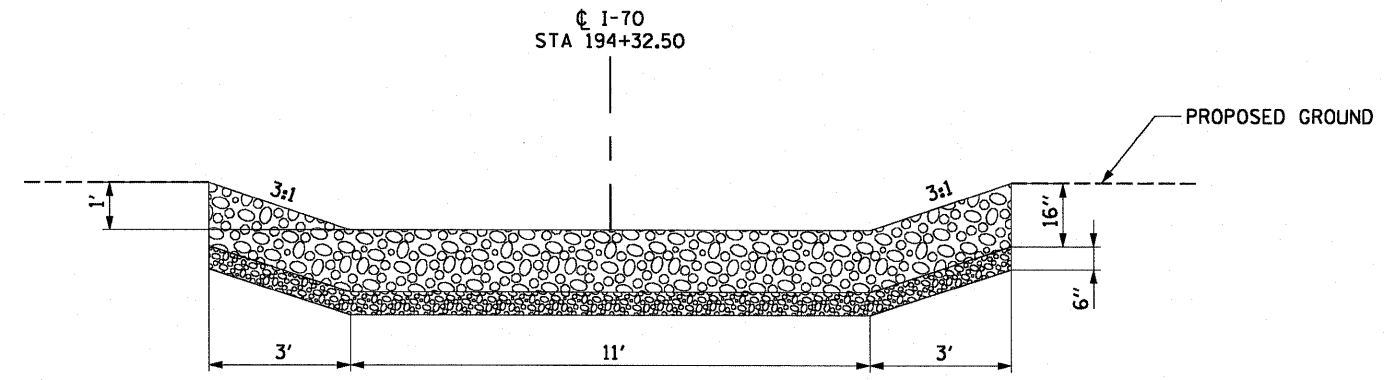
PLAN VIEW

STATION	OFFSET	STRUCTURE NO.	STONE RIPRAP, CLASS A4	FILTER FABRIC
			SQ YD	SQ YD
☉ I-70				
194+32.50	75.50' LT	S 1-02	168	168
		S 1-03		
TOTALS			168	168

NOTE: STATION AND OFFSET ARE PROVIDED FOR THE UPSTREAM CENTERLINE OF THE RIPRAP CHANNEL

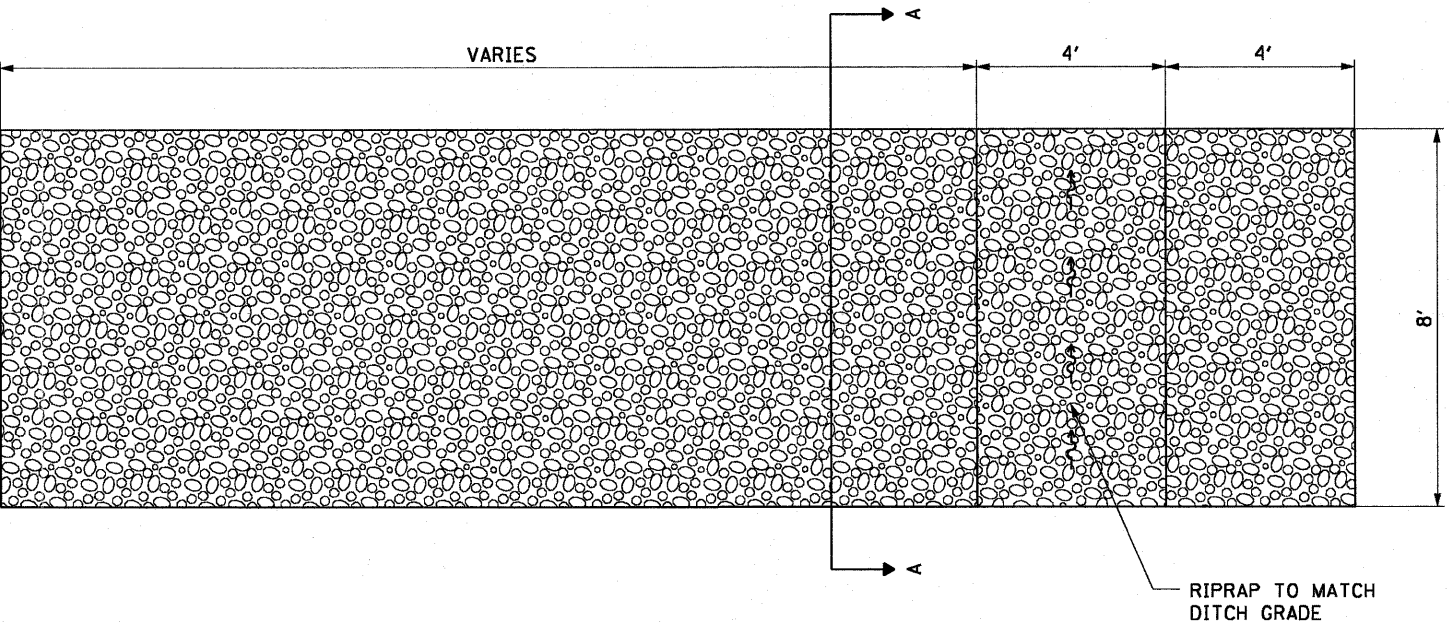
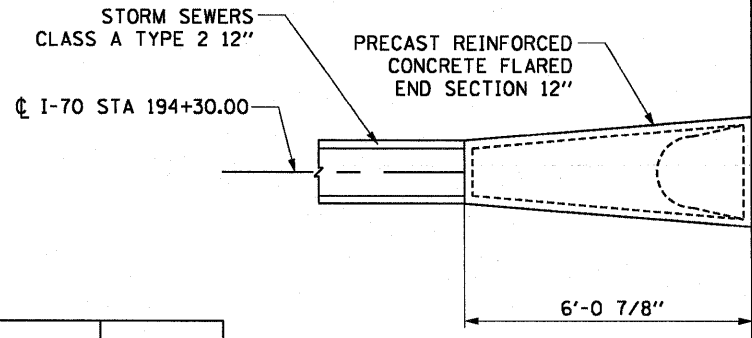


SIDE VIEW



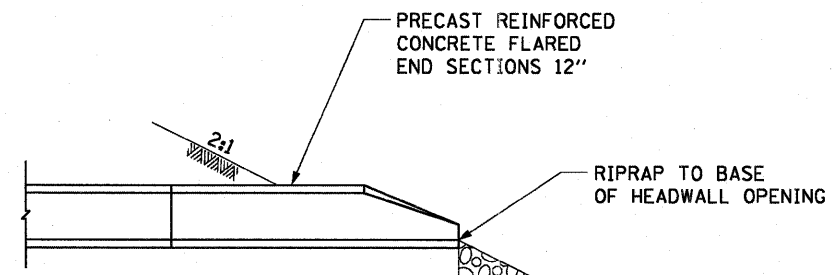
SECTION A-A

USER NAME = sear-ab	DESIGNED KLK	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	DRAINAGE DETAIL 2			F.A.I. RTE. 64/998	SECTION 82-1-B-2	COUNTY ST. CLAIR	TOTAL SHEETS 399	SHEET NO. 375	
PLLOT SCALE = 2.0000' / in.	DRAWN KLK	REVISED -		SCALE: NONE	SHEET NO. 2 OF 5 SHEETS	STA. TO STA.	CONTRACT NO. 76C76					
PLLOT DATE = 6/30/2011	CHECKED EEY	REVISED -										
	DATE 07-01-11	REVISED -		FED. ROAD DIST. NO. ILLINOIS FED. AID PROJECT								

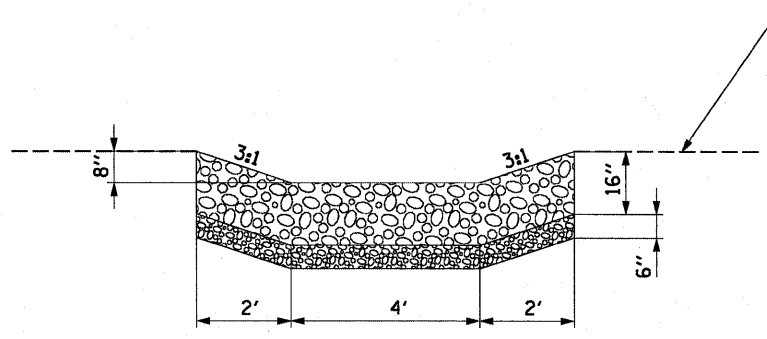


STATION	OFFSET	STRUCTURE NO.	STONE RIPRAP, CLASS A4	FILTER FABRIC
			SQ YD	SQ YD
☉ I-70				
196+30.00	72.00' LT	S 1-06	82	82
TOTALS			82	82

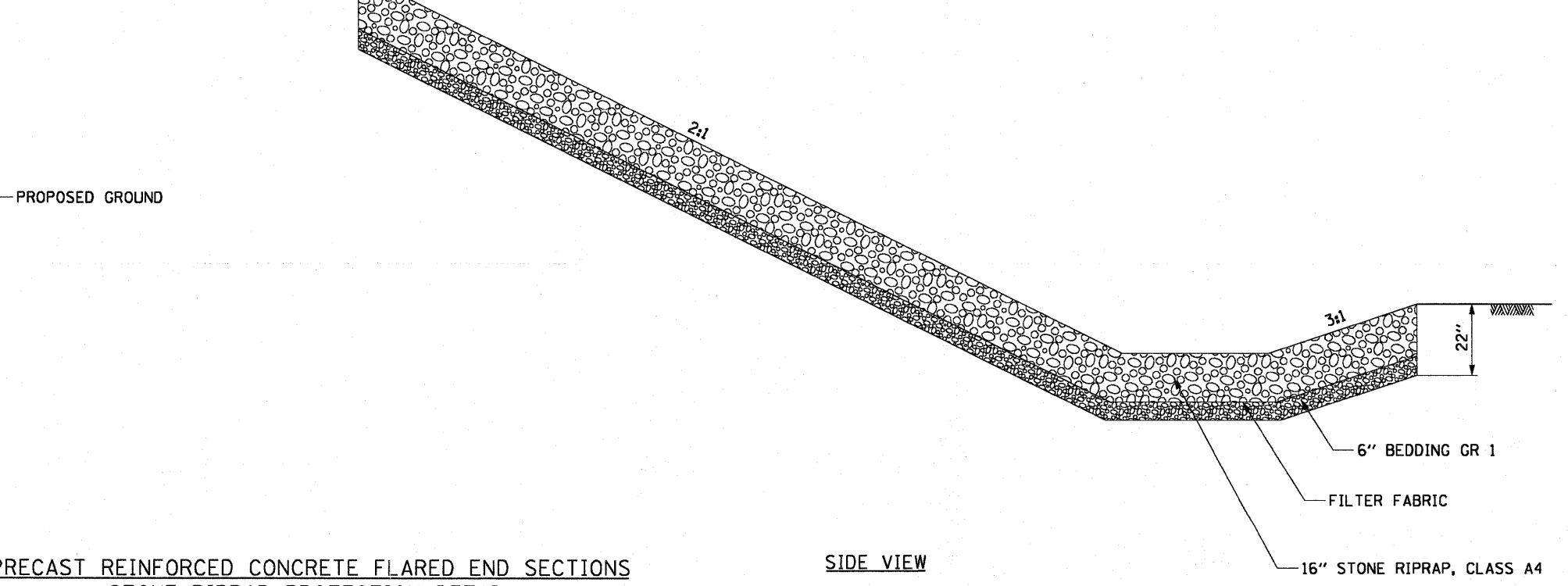
NOTE: STATION AND OFFSET ARE PROVIDED FOR THE UPSTREAM CENTERLINE OF THE RIPRAP CHANNEL



PLAN VIEW



SECTION A-A



SIDE VIEW

**PRECAST REINFORCED CONCRETE FLARED END SECTIONS
STONE RIPRAP PROTECTION DETAIL**

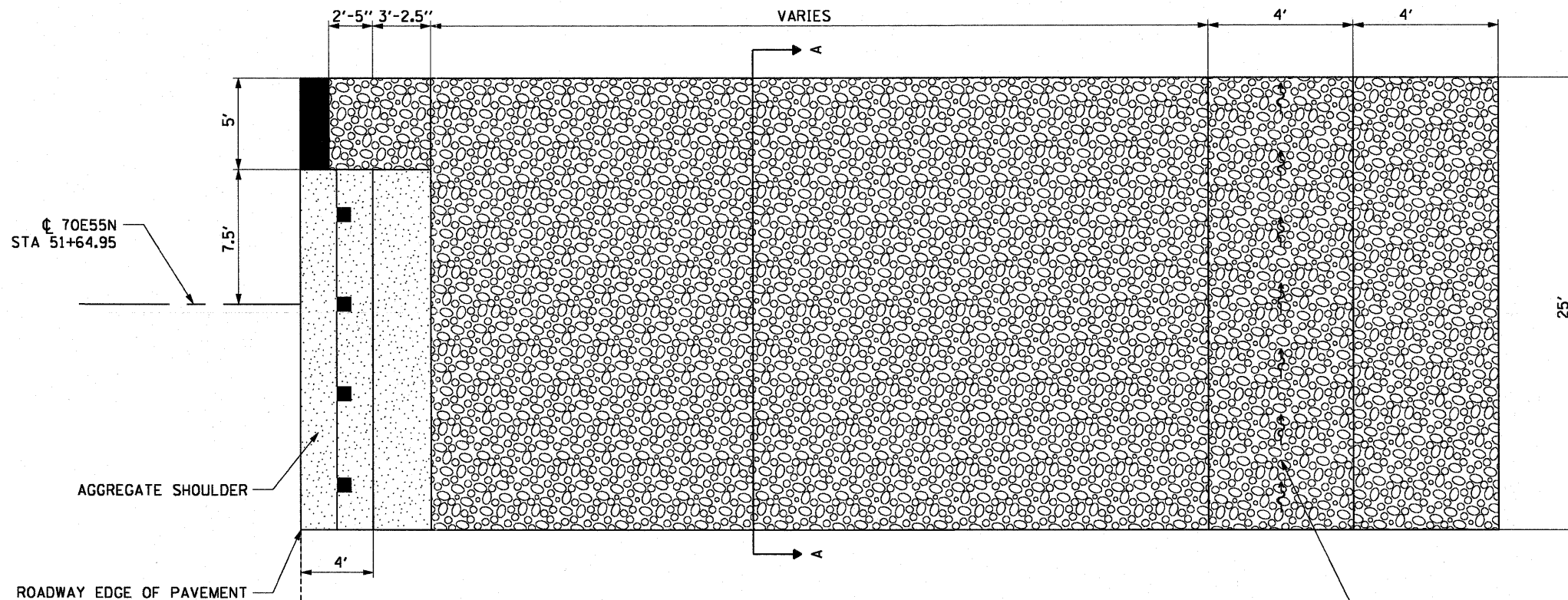
FOR STORM SEWERS PERPENDICULAR TO DITCH FLOW

☉ I-70: STA 196+30.00

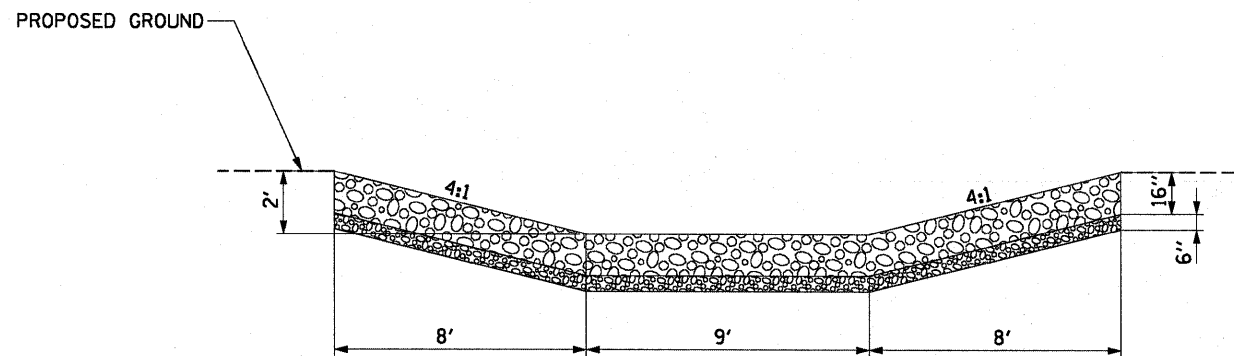
USER NAME = searab	DESIGNED KLK	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	DRAINAGE DETAIL 3			F.A.I. RTE. 64/998	SECTION 82-1-B-2	COUNTY ST. CLAIR	TOTAL SHEETS 399	SHEET NO. 376	
PLOT SCALE = 2.0000' / 1"	DRAWN KLK	REVISED -		SCALE: NONE	SHEET NO. 3 OF 5 SHEETS	STA. TO STA.	FED. ROAD DIST. NO. ILLINOIS FED. AID PROJECT					
PLOT DATE = 6/30/2011	CHECKED EEY	REVISED -										
	DATE 07-01-11	REVISED -										

		STONE RIPRAP, CLASS A4	FILTER FABRIC
STATION	OFFSET	SO YD	SO YD
☉ 70E55N			
51+64.95	26.00' LT	331	331
TOTALS			

NOTE: STATION AND OFFSET ARE PROVIDED FOR THE UPSTREAM CENTERLINE OF THE RIPRAP CHANNEL



PLAN VIEW

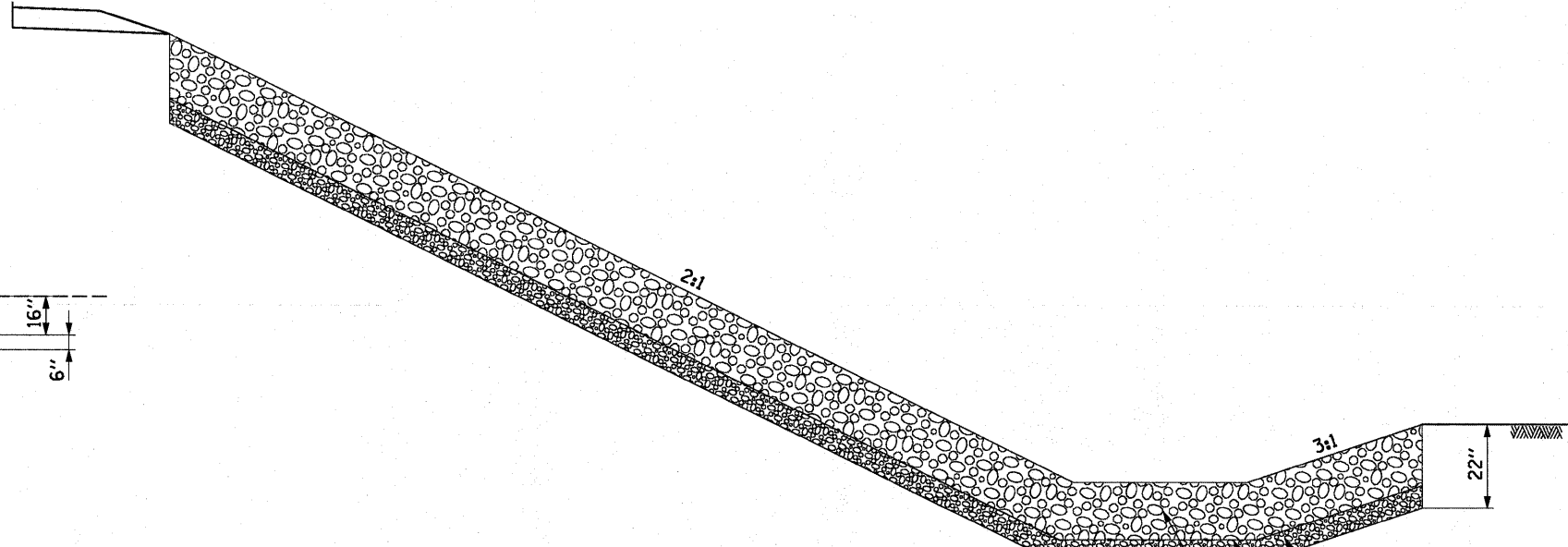


SECTION A-A

BRIDGE DECK DRAINAGE
STONE RIPRAP PROTECTION DETAIL

FOR FLYOVER BRIDGE S.N. 082-0322

☉ 70E55N: STA 51+64.95



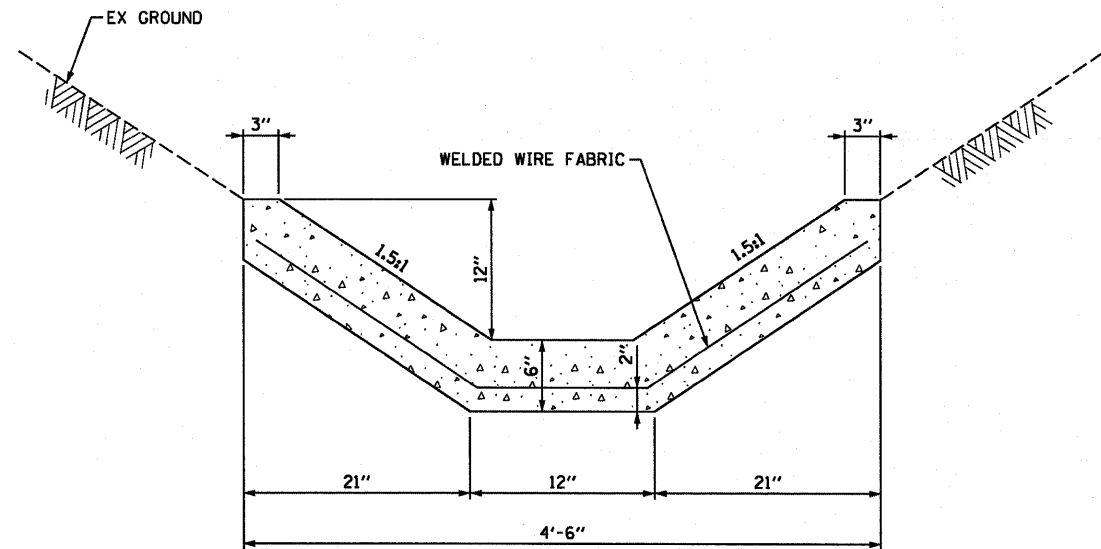
SIDE VIEW

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

DRAINAGE DETAIL 4

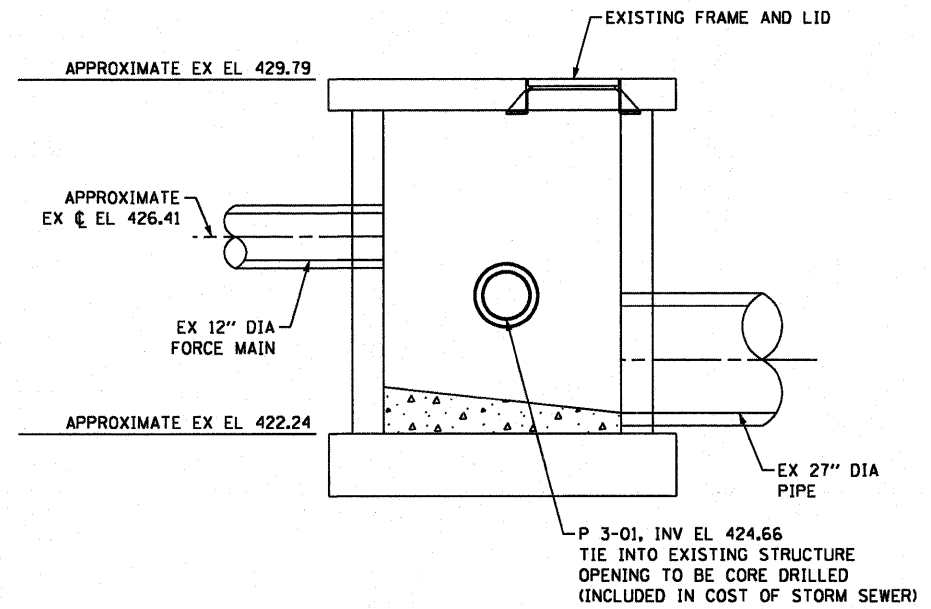
SCALE: NONE SHEET NO. 4 OF 5 SHEETS STA. TO STA.

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
64/998	82-1-B-2	ST. CLAIR	399	377
FED. ROAD DIST. NO.		ILLINOIS FED. AID PROJECT		



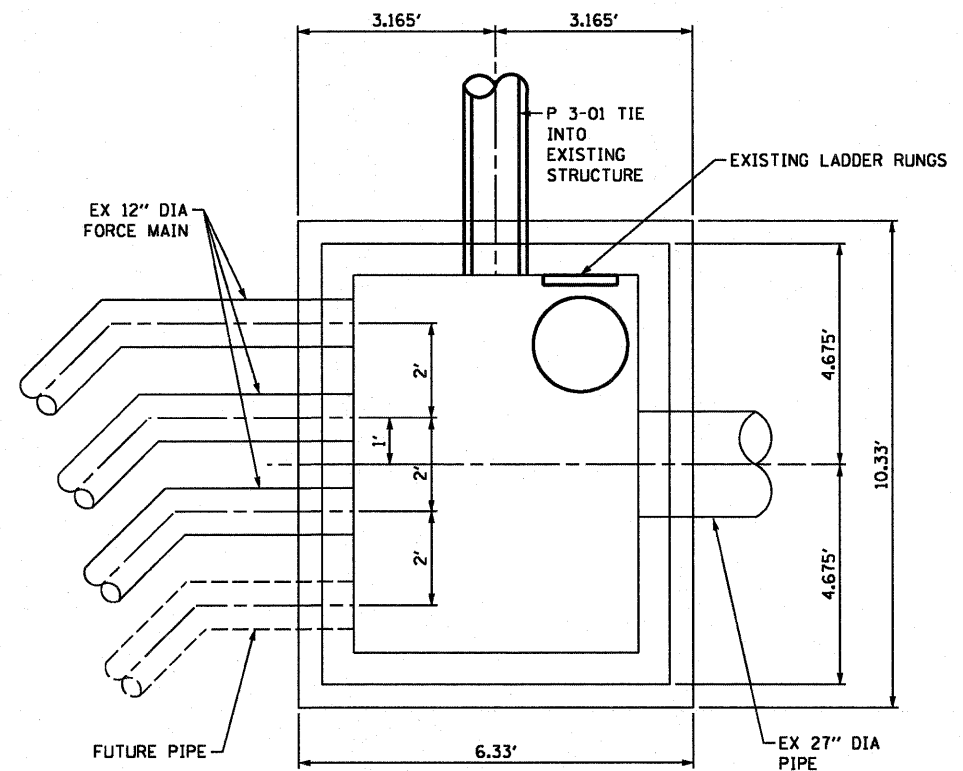
PAVED DITCH (SPECIAL)

SCALE: NONE



SECTIONAL VIEW

SCALE: NONE



PLAN VIEW

SCALE: NONE

NOTE: CONTRACTOR MUST MAINTAIN FLOW IN FORCE MAINS DURING CONSTRUCTION.

FORCE MAIN STRUCTURE TIE-IN DETAIL

SCALE: NONE

USER NAME = searsb	DESIGNED BS/OP	REVISED -
PLDT SCALE = 20.000' / in.	DRAWN BS/OP	REVISED -
PLDT DATE = 6/30/2011	CHECKED DBM	REVISED -
	DATE 07-01-11	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

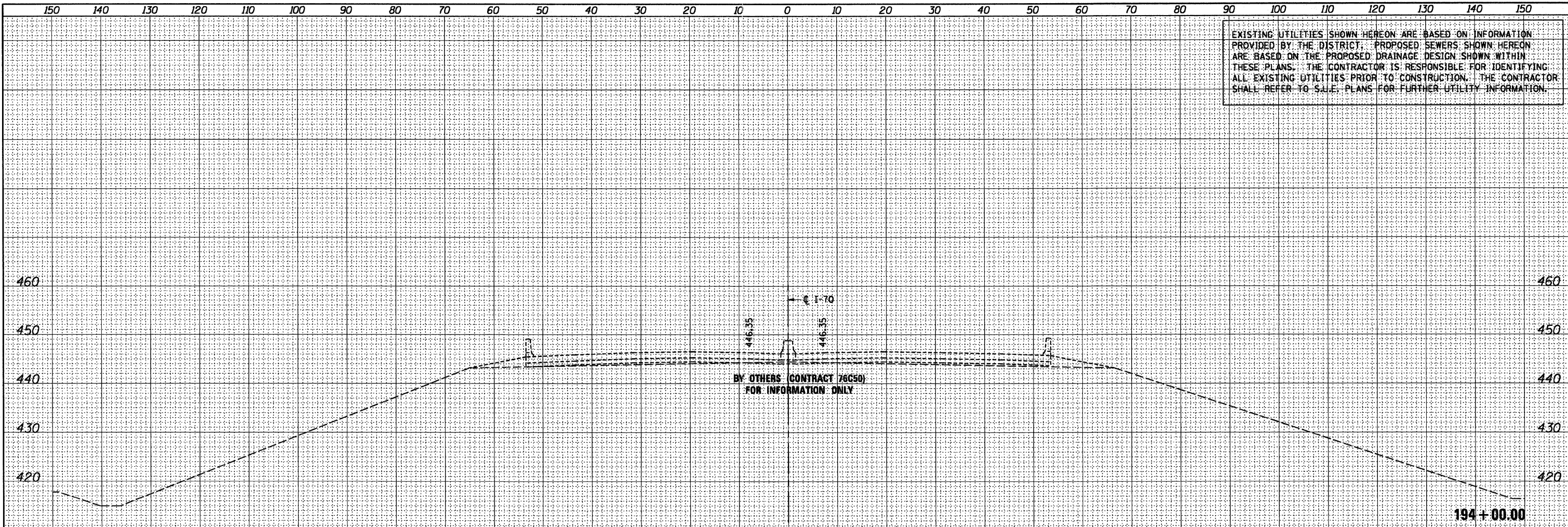
DRAINAGE DETAIL 5

SCALE: NONE SHEET NO. 5 OF 5 SHEETS STA. TO STA.

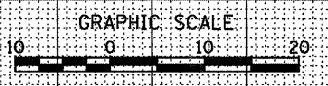
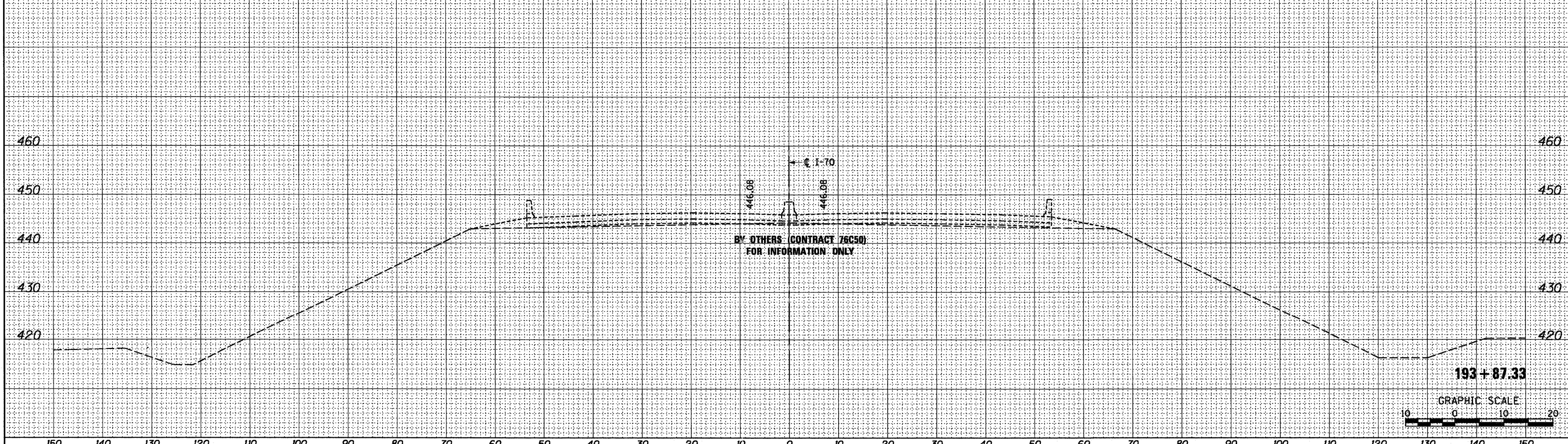
F.A.I. RTE. 64/998	SECTION 82-1-B-2	COUNTY ST. CLAIR	TOTAL SHEETS 399	SHEET NO. 377A
FED. ROAD DIST. NO.		ILLINOIS FED. AID PROJECT		
CONTRACT NO. 76C76				

EXISTING UTILITIES SHOWN HEREON ARE BASED ON INFORMATION PROVIDED BY THE DISTRICT. PROPOSED SEWERS SHOWN HEREON ARE BASED ON THE PROPOSED DRAINAGE DESIGN SHOWN WITHIN THESE PLANS. THE CONTRACTOR IS RESPONSIBLE FOR IDENTIFYING ALL EXISTING UTILITIES PRIOR TO CONSTRUCTION. THE CONTRACTOR SHALL REFER TO S.U.E. PLANS FOR FURTHER UTILITY INFORMATION.

FINAL SURVEY	DATE
SURVEYED	BY
PLOTTED	
NOTE BOOK	
AREAS CHECKED	
NO.	

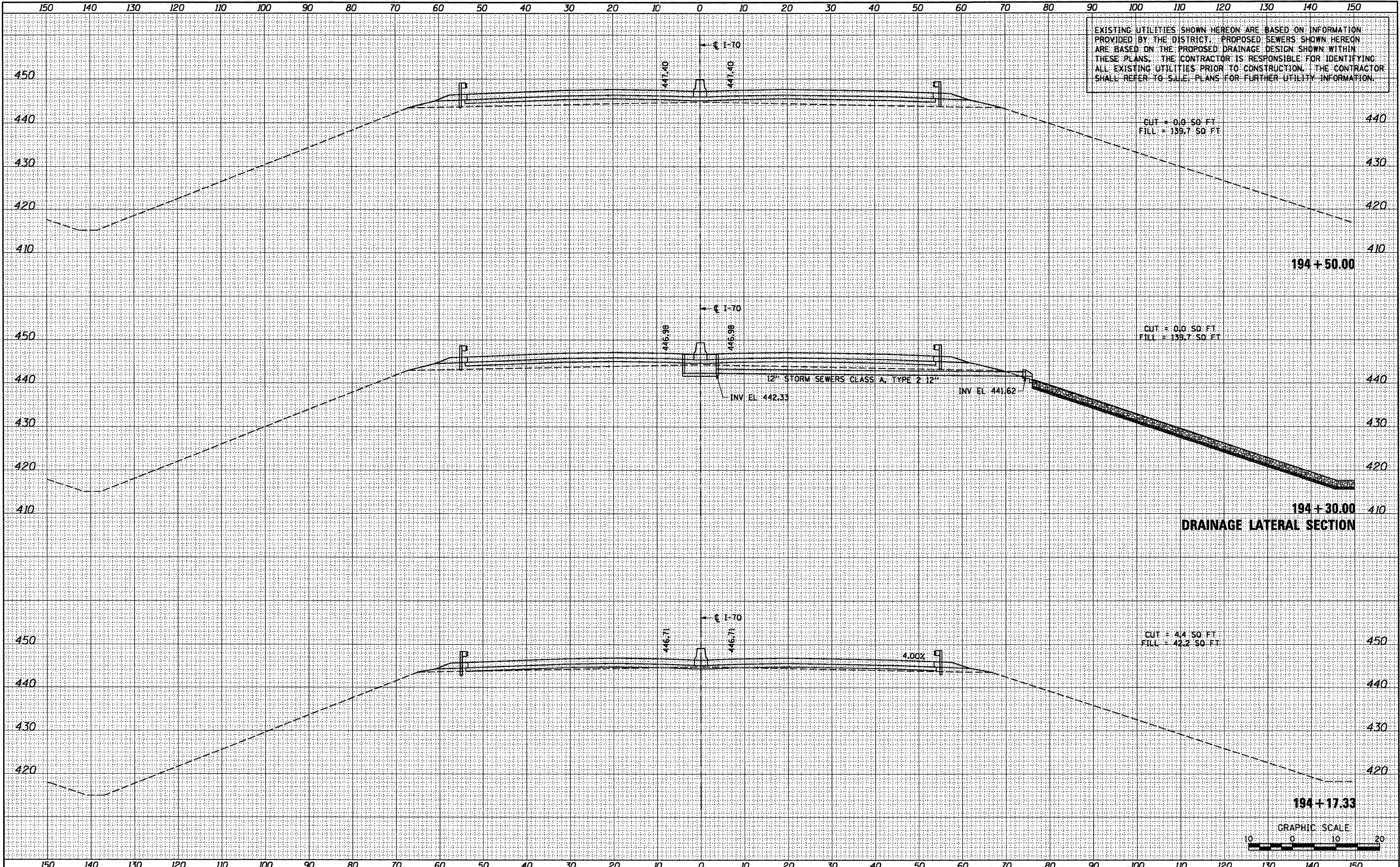


ORIGINAL SURVEY	DATE
SURVEYED	BY
PLOTTED	
NOTE BOOK	
AREAS CHECKED	
NO.	



FILE NAME = P:\P68046609\1000_Geopak\76C76\XS-Sheets\08TR-76C76-shs.XS.170.dgn	USER NAME = searab	DESIGNED OP	REVISIONS -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	CROSS SECTIONS - I-70	F.A.I. RTE. 64/998	SECTION 82-1-B-2	COUNTY ST. CLAIR	TOTAL SHEETS 399	SHEET NO. 378
PLDT SCALE = 20.0000' / in.	CHECKED DBM	REVISIONS -	SCALE: 1" = 10'			SHEET NO. 1 OF 4 SHEETS	STA. 193+87.33 TO STA. 194+00.00	FED. ROAD DIST. NO.	ILLINOIS FED. AID PROJECT	
PLDT DATE = 6/30/2011	DATE 07-01-11	REVISIONS -								

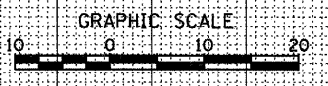
EXISTING UTILITIES SHOWN HEREON ARE BASED ON INFORMATION PROVIDED BY THE DISTRICT. PROPOSED SEWERS SHOWN HEREON ARE BASED ON THE PROPOSED DRAINAGE DESIGN SHOWN WITHIN THESE PLANS. THE CONTRACTOR IS RESPONSIBLE FOR IDENTIFYING ALL EXISTING UTILITIES PRIOR TO CONSTRUCTION. THE CONTRACTOR SHALL REFER TO S.U.E. PLANS FOR FURTHER UTILITY INFORMATION.



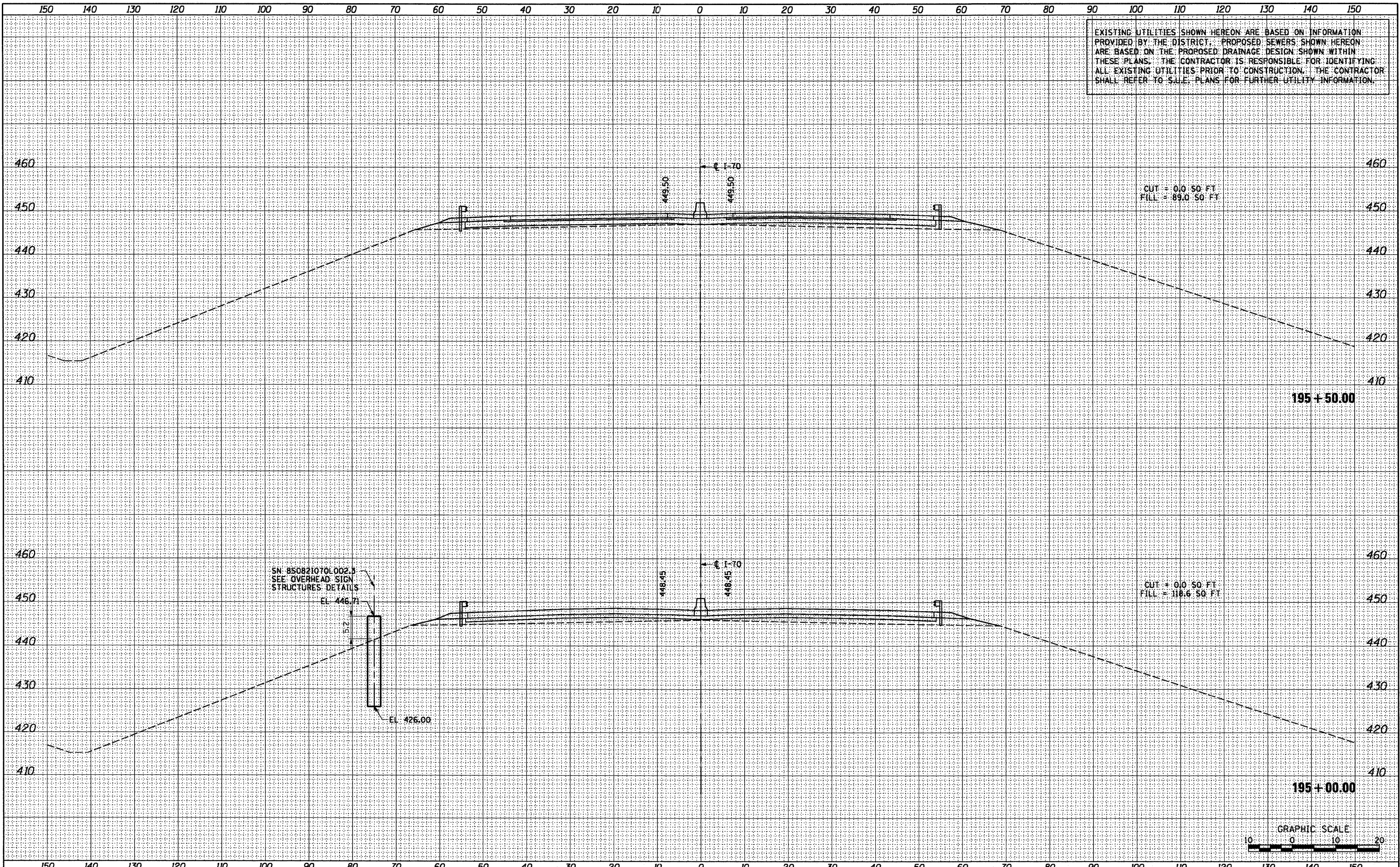
DATE	
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FINAL SURVEY	
SURVEYED	
PLOTTED	
NOTE BOOK	
AREAS CHECKED	
NO.	

DATE	
BY	
ORIGINAL SURVEY	
SURVEYED	
PLOTTED	
NOTE BOOK	
AREAS CHECKED	
NO.	

DRAINAGE LATERAL SECTION



EXISTING UTILITIES SHOWN HEREON ARE BASED ON INFORMATION PROVIDED BY THE DISTRICT. PROPOSED SEWERS SHOWN HEREON ARE BASED ON THE PROPOSED DRAINAGE DESIGN SHOWN WITHIN THESE PLANS. THE CONTRACTOR IS RESPONSIBLE FOR IDENTIFYING ALL EXISTING UTILITIES PRIOR TO CONSTRUCTION. THE CONTRACTOR SHALL REFER TO S.U.E. PLANS FOR FURTHER UTILITY INFORMATION.

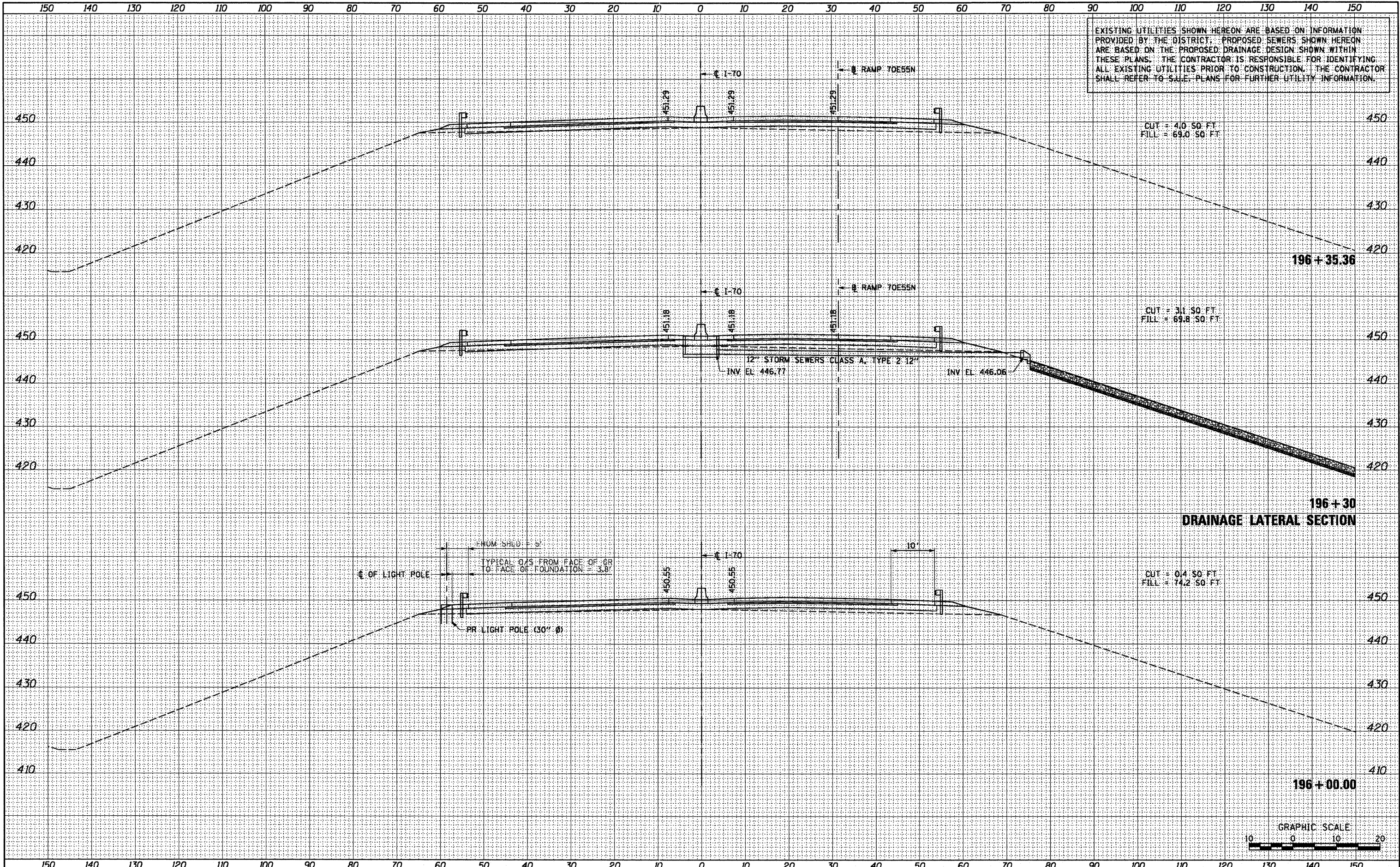


DATE	
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FINAL SURVEY	
SURVEYED	
PLOTTED	
NOTE BOOK	
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AREAS CHECKED	

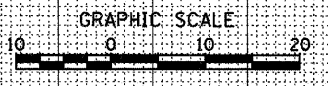
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BY	
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PLOTTED	
NOTE BOOK	
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AREAS CHECKED	

FILE NAME = P:\P62046629\1022_Geopak\76C76\XS-Sheets\08TR	USER NAME = sear-sb	DESIGNED OP	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	CROSS SECTIONS - I-70	F.A.I. RTE. 64/998	SECTION 82-1-B-2	COUNTY ST. CLAIR	TOTAL SHEETS 399	SHEET NO. 380	
	76C76-shr.XS_170.dgn	DRAWN OP	REVISED -			SCALE: 1" = 10'	SHEET NO. 3 OF 4 SHEETS	STA. 195+00.00 TO STA. 195+50.00	CONTRACT NO. 76C76		
	PLOT SCALE = 20.0000' / in.	CHECKED DBM	REVISED -			FED. ROAD DIST. NO. ILLINOIS FED. AID PROJECT					
	PLOT DATE = 6/30/2011	DATE 07-01-11	REVISED -								

EXISTING UTILITIES SHOWN HEREON ARE BASED ON INFORMATION PROVIDED BY THE DISTRICT. PROPOSED SEWERS SHOWN HEREON ARE BASED ON THE PROPOSED DRAINAGE DESIGN SHOWN WITHIN THESE PLANS. THE CONTRACTOR IS RESPONSIBLE FOR IDENTIFYING ALL EXISTING UTILITIES PRIOR TO CONSTRUCTION. THE CONTRACTOR SHALL REFER TO SALE PLANS FOR FURTHER UTILITY INFORMATION.



DRAINAGE LATERAL SECTION



DATE	
BY	
FINAL SURVEY	
SURVEYED	
PLOTTED	
NOTE BOOK	
AREAS CHECKED	
NO.	

DATE	
BY	
ORIGINAL SURVEY	
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PLOTTED	
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AREAS CHECKED	
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		DATE	07-01-11	REVISED	-

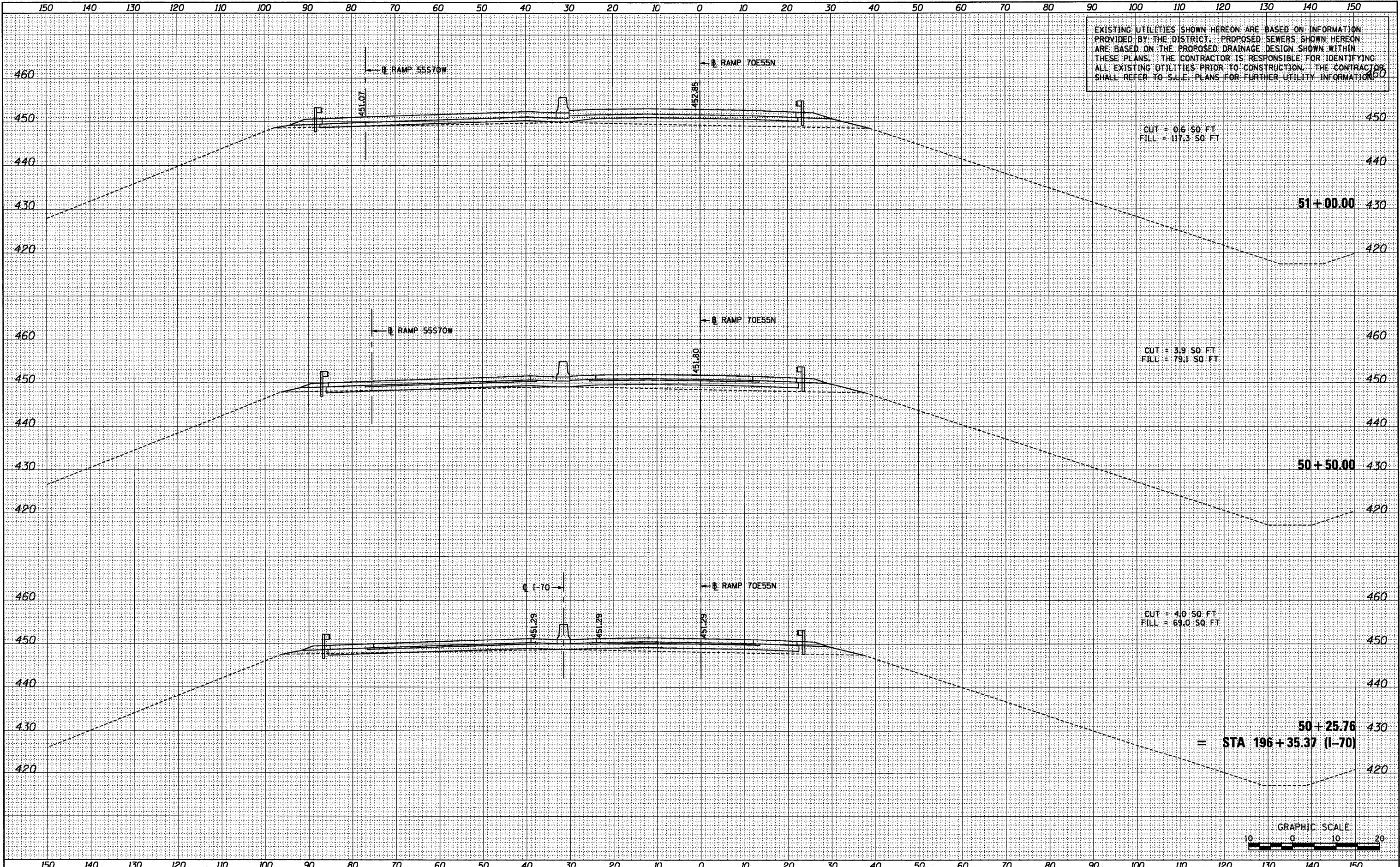
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

CROSS SECTIONS - I-70

SCALE: 1" = 10'	SHEET NO. 4 OF 4 SHEETS	STA. 196+00.00 TO STA. 196+35.36
-----------------	-------------------------	----------------------------------

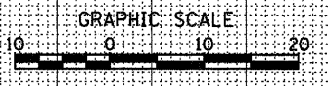
F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
64/998	82-1-B-2	ST. CLAIR	399	381
FED. ROAD DIST. NO.			ILLINOIS FED. AID PROJECT	
			CONTRACT NO. 76C76	

EXISTING UTILITIES SHOWN HEREON ARE BASED ON INFORMATION PROVIDED BY THE DISTRICT. PROPOSED SEWERS SHOWN HEREON ARE BASED ON THE PROPOSED DRAINAGE DESIGN SHOWN WITHIN THESE PLANS. THE CONTRACTOR IS RESPONSIBLE FOR IDENTIFYING ALL EXISTING UTILITIES PRIOR TO CONSTRUCTION. THE CONTRACTOR SHALL REFER TO S.U.E. PLANS FOR FURTHER UTILITY INFORMATION.



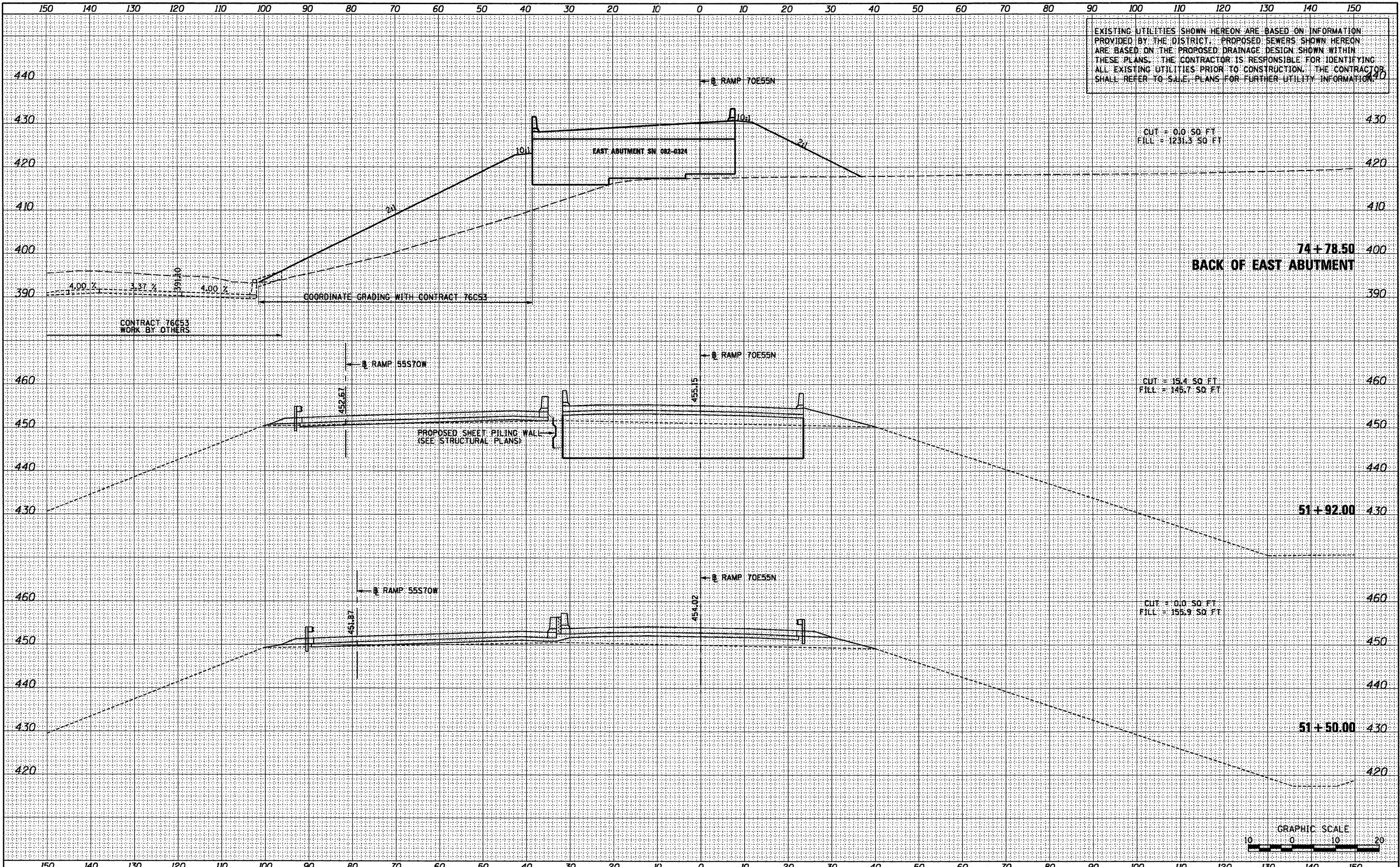
DATE	
BY	
FINAL SURVEY	
SURVEYED	
PLOTTED	
NOTE BOOK	
AREAS CHECKED	
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DATE	
BY	
ORIGINAL SURVEY	
SURVEYED	
PLOTTED	
NOTE BOOK	
AREAS CHECKED	
NO.	



FILE NAME =	USER NAME = sear:ab	DESIGNED	OP	REVISED	-	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	CROSS SECTIONS - I-70 / RAMP 70E55N		F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
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	PLLOT SCALE = 20.0000' / in.	CHECKED	DBM	REVISED	-		CONTRACT NO. 76C76						
	PLLOT DATE = 6/30/2011	DATE	07-01-11	REVISED	-		SCALE: 1" = 10'		SHEET NO. 1 OF 7 SHEETS	STA. 50+25.76 TO STA. 50+50.00	FED. ROAD DIST. NO.	ILLINOIS FED. AID PROJECT	

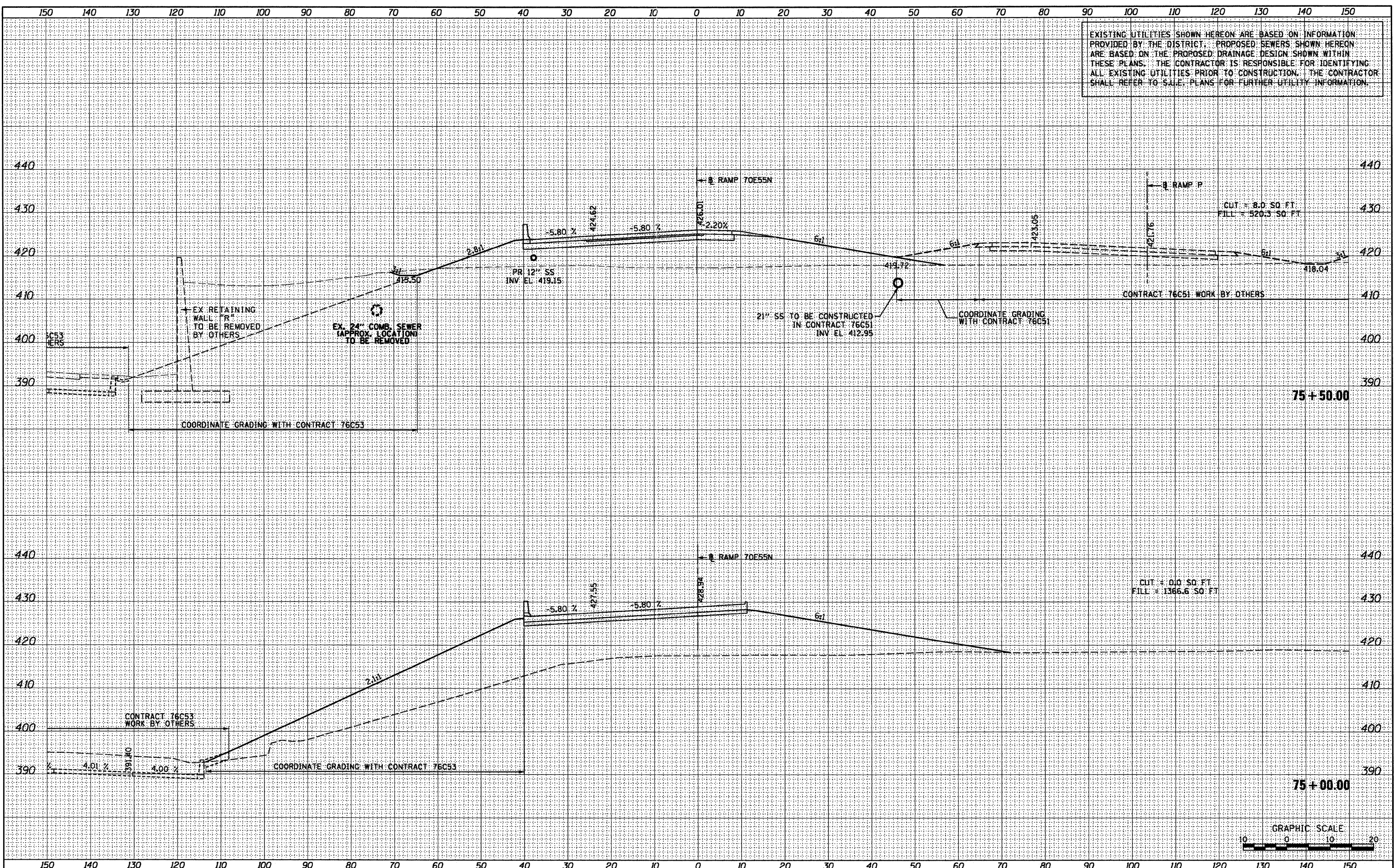
EXISTING UTILITIES SHOWN HEREON ARE BASED ON INFORMATION PROVIDED BY THE DISTRICT. PROPOSED SEWERS SHOWN HEREON ARE BASED ON THE PROPOSED DRAINAGE DESIGN SHOWN WITHIN THESE PLANS. THE CONTRACTOR IS RESPONSIBLE FOR IDENTIFYING ALL EXISTING UTILITIES PRIOR TO CONSTRUCTION. THE CONTRACTOR SHALL REFER TO S.U.E. PLANS FOR FURTHER UTILITY INFORMATION.



DATE	
BY	
SURVEYED	
PLOTTED	
NOTE BOOK	
AREAS CHECKED	
NO.	

DATE	
BY	
SURVEYED	
PLOTTED	
NOTE BOOK	
AREAS CHECKED	
NO.	

EXISTING UTILITIES SHOWN HEREON ARE BASED ON INFORMATION PROVIDED BY THE DISTRICT. PROPOSED SEWERS SHOWN HEREON ARE BASED ON THE PROPOSED DRAINAGE DESIGN SHOWN WITHIN THESE PLANS. THE CONTRACTOR IS RESPONSIBLE FOR IDENTIFYING ALL EXISTING UTILITIES PRIOR TO CONSTRUCTION. THE CONTRACTOR SHALL REFER TO S.U.E. PLANS FOR FURTHER UTILITY INFORMATION.



DATE	
BY	
FINAL SURVEY	
PLOTTED	
NOTE BOOK	
AREAS	
NO.	

DATE	
BY	
ORIGINAL SURVEY	
PLOTTED	
NOTE BOOK	
AREAS	
NO.	

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	PLOT DATE = 6/30/2011	DATE	07-01-11	REVISED	-

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

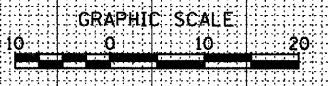
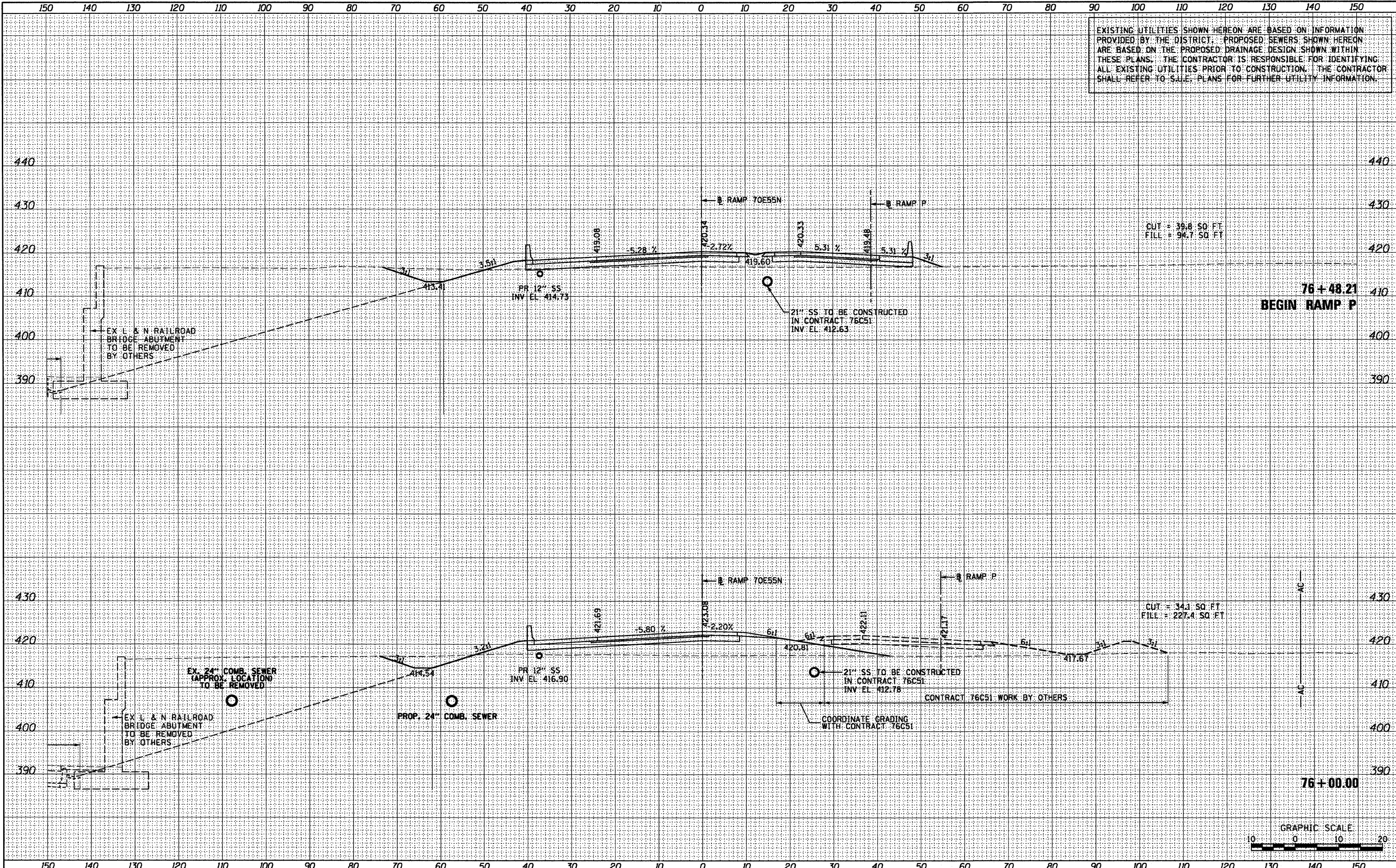
CROSS SECTIONS - I-70 / RAMP 70E55N	
SCALE: 1" = 10'	SHEET NO. 3 OF 7 SHEETS
STA. 75+00.00	TO STA. 75+50.00

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
64/998	82-1-B-2	ST. CLAIR	399	384
CONTRACT NO. 76C76		FED. ROAD DIST. NO. ILLINOIS FED. AID PROJECT		

EXISTING UTILITIES SHOWN HEREON ARE BASED ON INFORMATION PROVIDED BY THE DISTRICT. PROPOSED SEWERS SHOWN HEREON ARE BASED ON THE PROPOSED DRAINAGE DESIGN SHOWN WITHIN THESE PLANS. THE CONTRACTOR IS RESPONSIBLE FOR IDENTIFYING ALL EXISTING UTILITIES PRIOR TO CONSTRUCTION. THE CONTRACTOR SHALL REFER TO S.U.E. PLANS FOR FURTHER UTILITY INFORMATION.

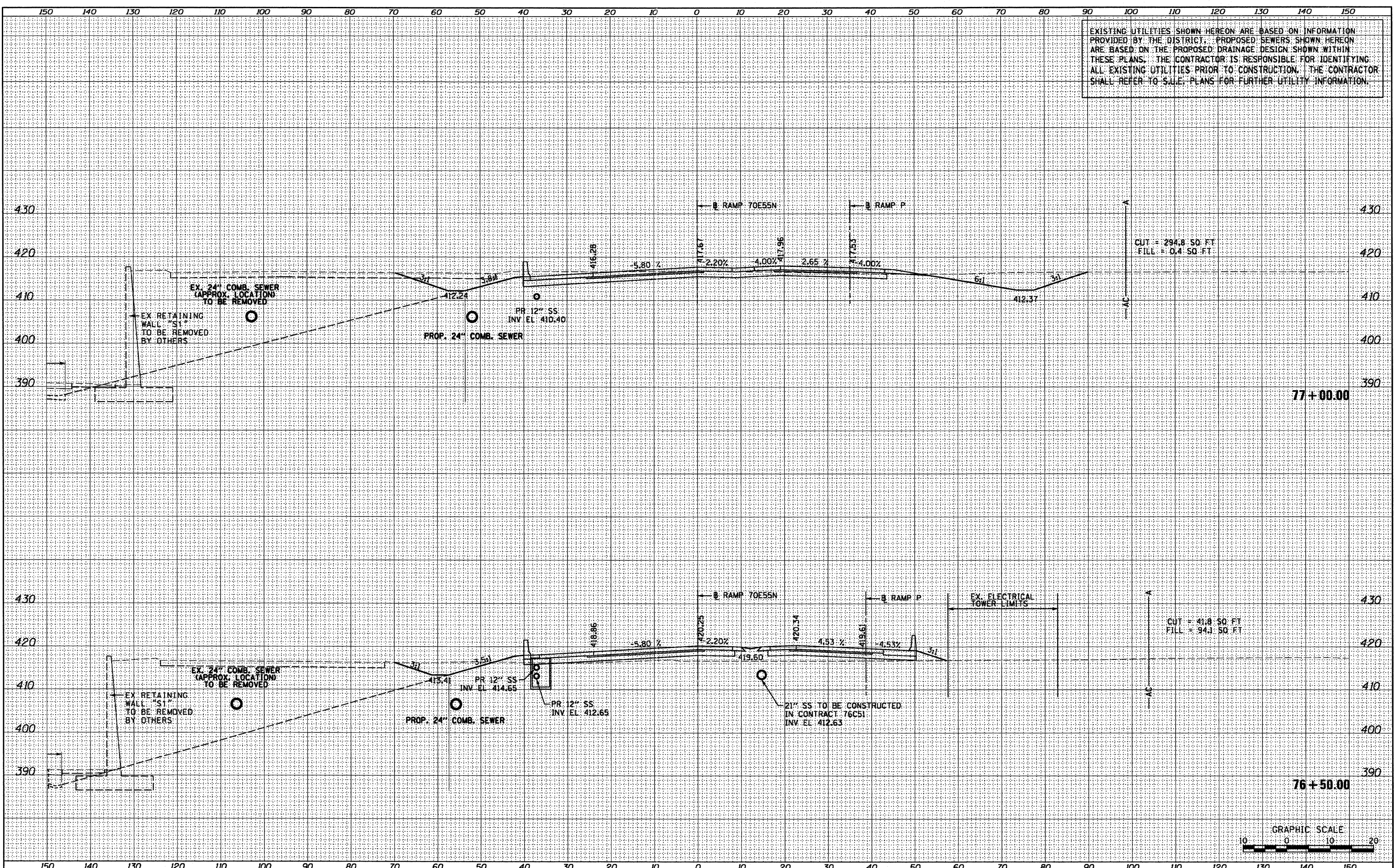
DATE	
BY	
FINAL SURVEY	
PLOTTED	
NOTE BOOK	
NO.	

DATE	
BY	
ORIGINAL SURVEY	
PLOTTED	
NOTE BOOK	
NO.	



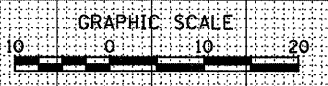
FILE NAME =	USER NAME = searab	DESIGNED	OP	REVISED	-	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	CROSS SECTIONS - I-70 / RAMP 70E55N		F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
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	PLOT SCALE = 20.0000' / in.	CHECKED	DBM	REVISED	-		CONTRACT NO. 76C76						
	PLOT DATE = 6/30/2011	DATE	07-01-11	REVISED	-		SCALE: 1" = 10'		SHEET NO. 4 OF 7 SHEETS	STA. 76+00.00 TO STA. 76+48.21	FED. ROAD DIST. NO.	ILLINOIS FED. AID PROJECT	

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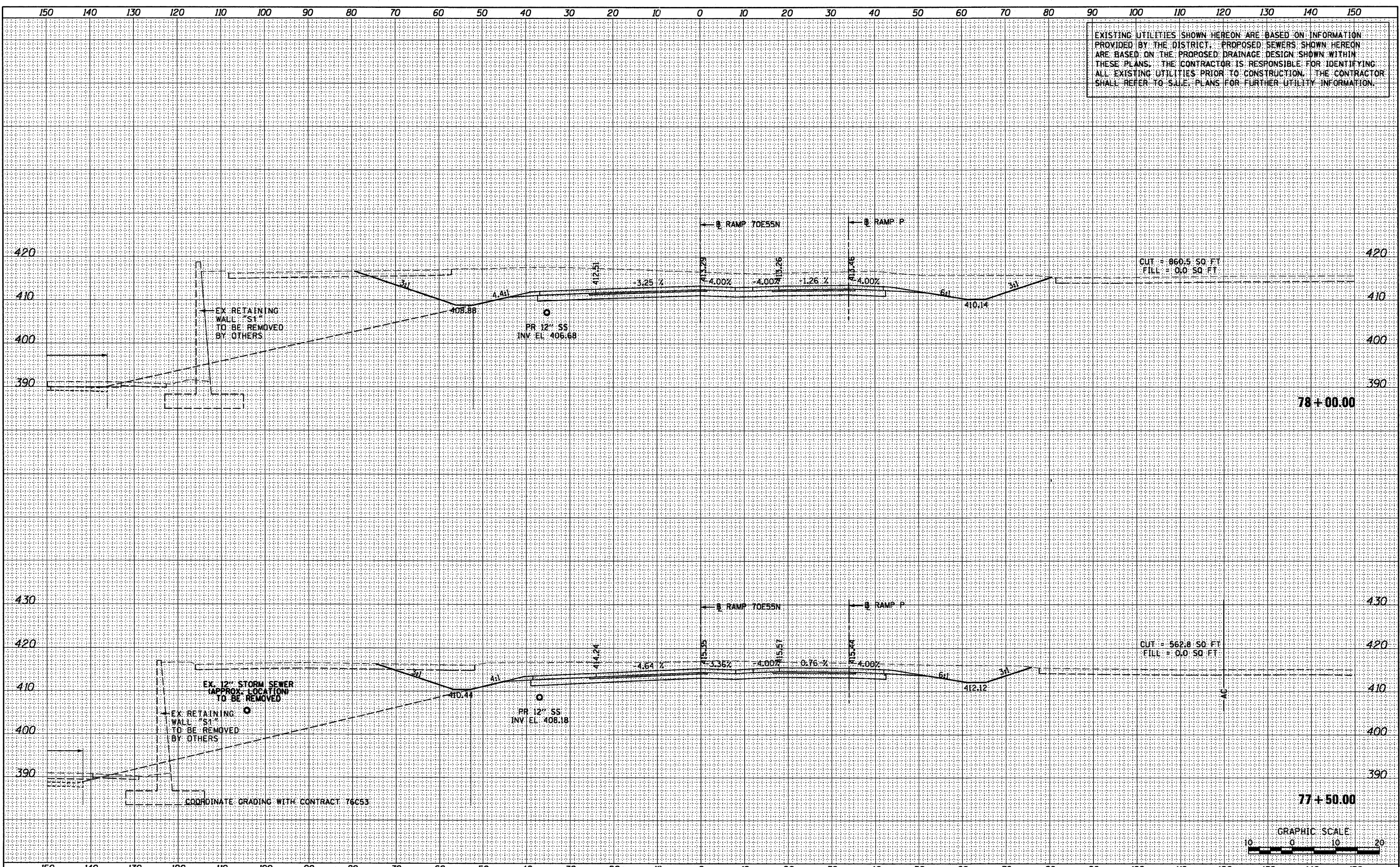
DATE	
BY	
FINAL SURVEY	
PLOTTED	
DATE	
NOTE BOOK	
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AREAS CHECKED	

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ORIGINAL SURVEY	
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NOTE BOOK	
NO.	
AREAS CHECKED	



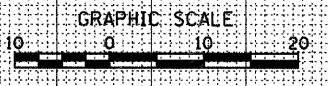
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P:\P60246629\1020_Geopak\76C76\XS-Sheets\08TR-76C76-shr.XS-70E55N.dgn	76C76-shr.XS-70E55N.dgn	DRAWN	OP	REVISED	-				64/998	82-1-B-2	ST. CLAIR	399	386
PLDT SCALE = 20.0000' / in.		CHECKED	DBM	REVISED	-				CONTRACT NO. 76C76				
PLDT DATE = 6/30/2011		DATE	07-01-11	REVISED	-				FED. ROAD DIST. NO. ILLINOIS FED. AID PROJECT				

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DATE	
BY	
FINAL SURVEY	
PLOTTED	
NOTE BOOK	
AREAS CHECKED	
NO.	

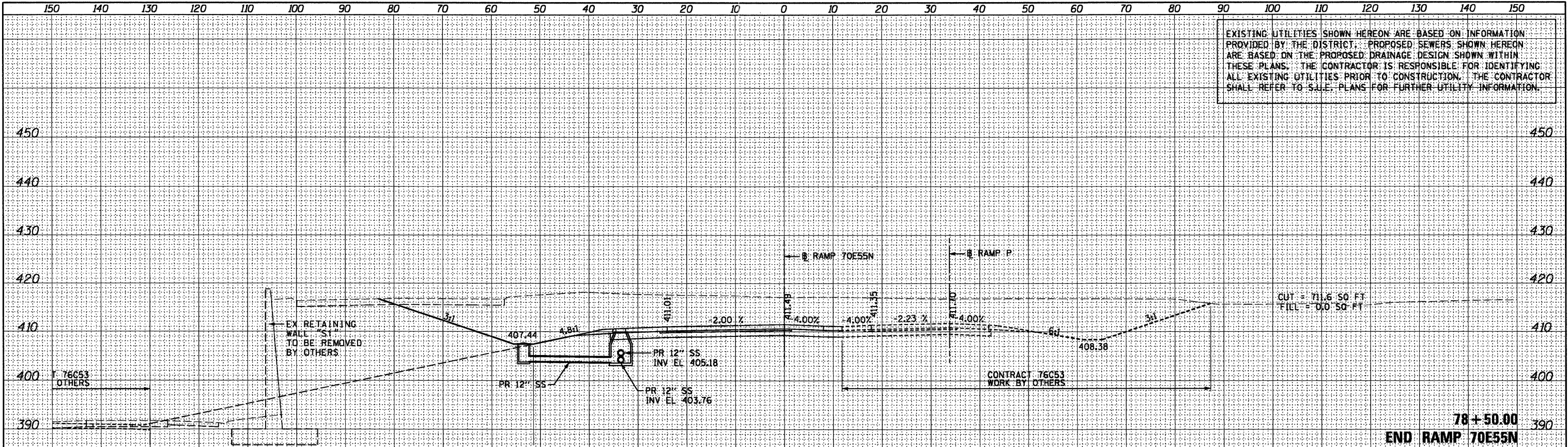
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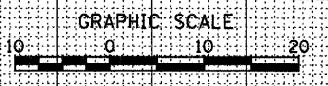
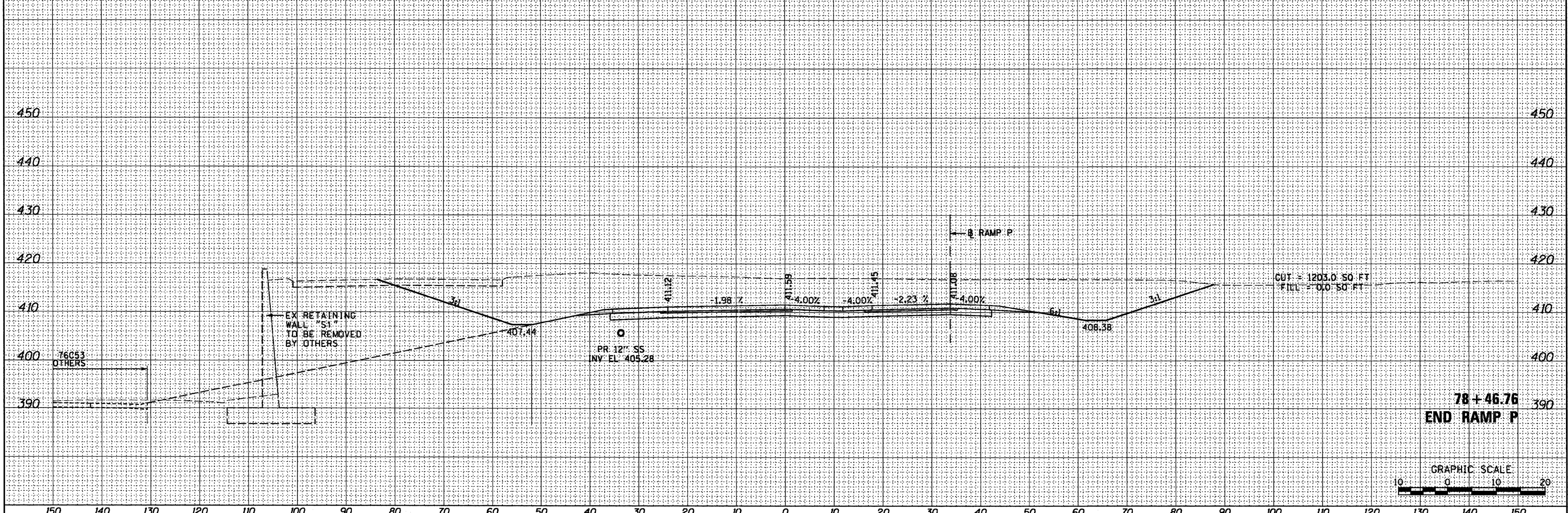
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	PLDT SCALE = 20.0000' / in.	CHECKED	DBM	REVISED	-				CONTRACT NO. 76C76				
	PLDT DATE = 6/30/2011	DATE	07-01-11	REVISED	-				FED. ROAD DIST. NO. ILLINOIS FED. AID PROJECT				
									SCALE: 1" = 10'		SHEET NO. 6 OF 7 SHEETS		STA. 77+50.00 TO STA. 78+00.00

EXISTING UTILITIES SHOWN HEREON ARE BASED ON INFORMATION PROVIDED BY THE DISTRICT. PROPOSED SEWERS SHOWN HEREON ARE BASED ON THE PROPOSED DRAINAGE DESIGN SHOWN WITHIN THESE PLANS. THE CONTRACTOR IS RESPONSIBLE FOR IDENTIFYING ALL EXISTING UTILITIES PRIOR TO CONSTRUCTION. THE CONTRACTOR SHALL REFER TO S.U.E. PLANS FOR FURTHER UTILITY INFORMATION.

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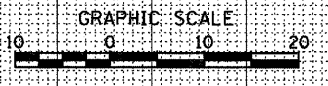
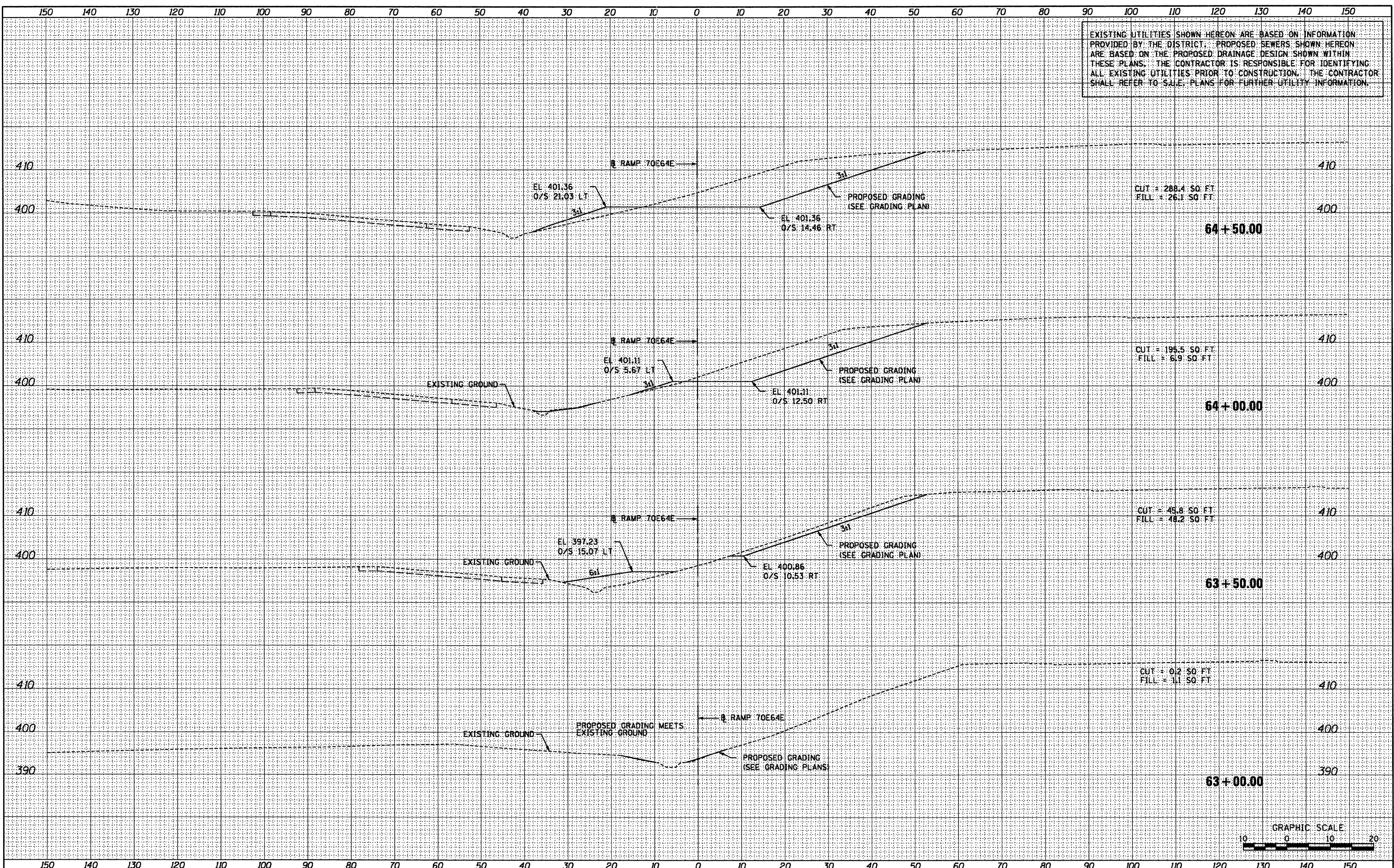


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FILE NAME =	USER NAME = sear-sb	DESIGNED OP	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	CROSS SECTIONS - I-70/RAMP 70E55N	F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
P:\P62046669\1020_Geopak\76C76\XS-Sheets\08TR	-76C76-sh1_XS_70E55N.dgn	DRAWN OP	REVISED -			64/998	82-1-B-2	ST. CLAIR	399	388
PLT SCALE = 28.0000' / in.		CHECKED DBM	REVISED -			CONTRACT NO. 76C76				
PLT DATE = 6/30/2011		DATE 07-01-11	REVISED -			FED. ROAD DIST. NO. ILLINOIS FED. AID PROJECT				
						SCALE: 1" = 10' SHEET NO. 7 OF 7 SHEETS STA. 78+46.76 TO STA. 78+50.00				

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BY: _____

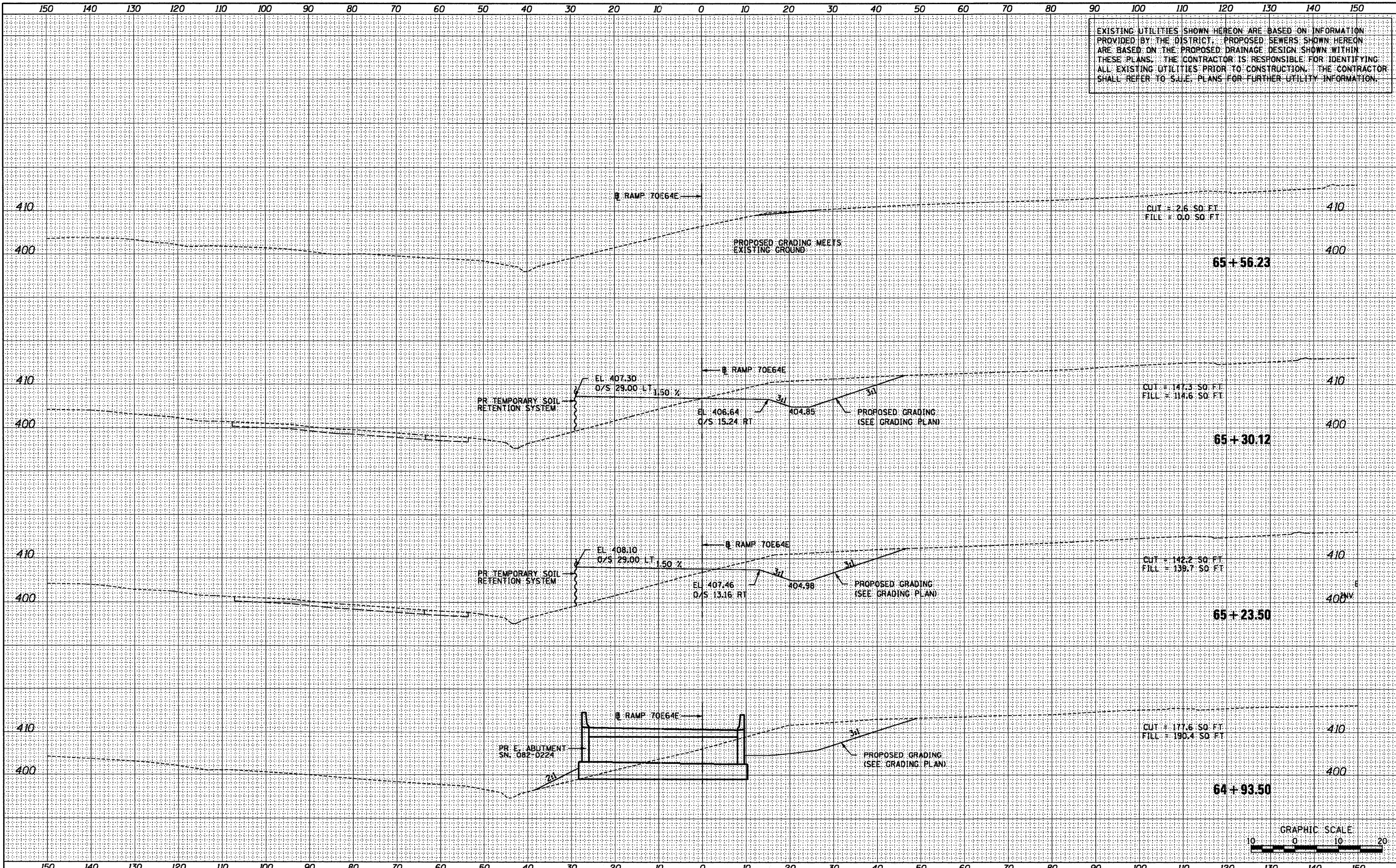
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DATE: 00'00'03"
BY: 64+00.00

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FILE NAME =	USER NAME = searab	DESIGNED OP	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	CROSS SECTIONS - RAMP 70E64E	F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
P:\P60046609\1000_Geopak\76C76\XS-Sheets\08TR-76C76-sh1.XS-70E64E.dgn	DRAWN OP	REVISED -	64/998			82-1-B-2	ST. CLAIR	399	389	
PLLOT SCALE = 20.0000' / 1 in.	CHECKED DBM	REVISED -	CONTRACT NO. 76C76							
PLLOT DATE = 6/30/2011	DATE 07-01-11	REVISED -	FED. ROAD DIST. NO. ILLINOIS FED. AID PROJECT							
SCALE: 1" = 10'						SHEET NO. 1 OF 2 SHEETS		STA. 63+00.00 TO STA. 64+50.00		

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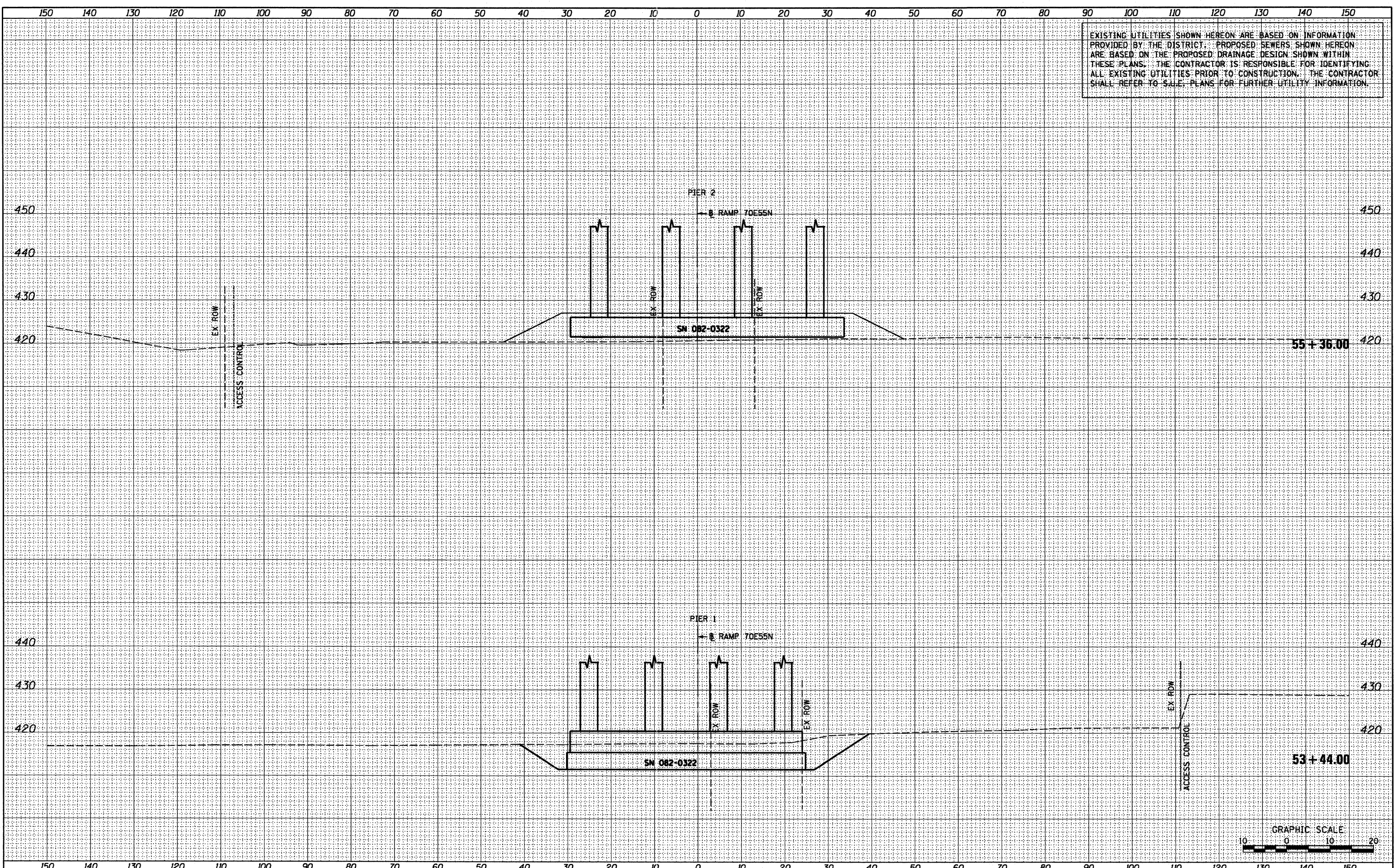


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FILE NAME =	USER NAME = sear-sb	DESIGNED OP	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	CROSS SECTIONS - RAMP 70E64E		F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.	
P:\P62046629\1020_Geopak\76C76\XS-Sheets\08TR-76C76-shr.XS-70E64E.dgn		DRAWN OP	REVISED -		SCALE: 1" = 10'	SHEET NO. 2 OF 2 SHEETS	STA. 64+93.50 TO STA. 65+56.23	64/998	82-1-B-2	ST. CLAIR	399	390
PLT SCALE = 20.0000' / in.		CHECKED DBM	REVISED -									
PLT DATE = 6/30/2011		DATE 07-01-11	REVISED -					FED. ROAD DIST. NO.	ILLINOIS FED. AID PROJECT			

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	PLDT DATE = 6/30/2011	DATE	07-01-11	REVISED	-

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

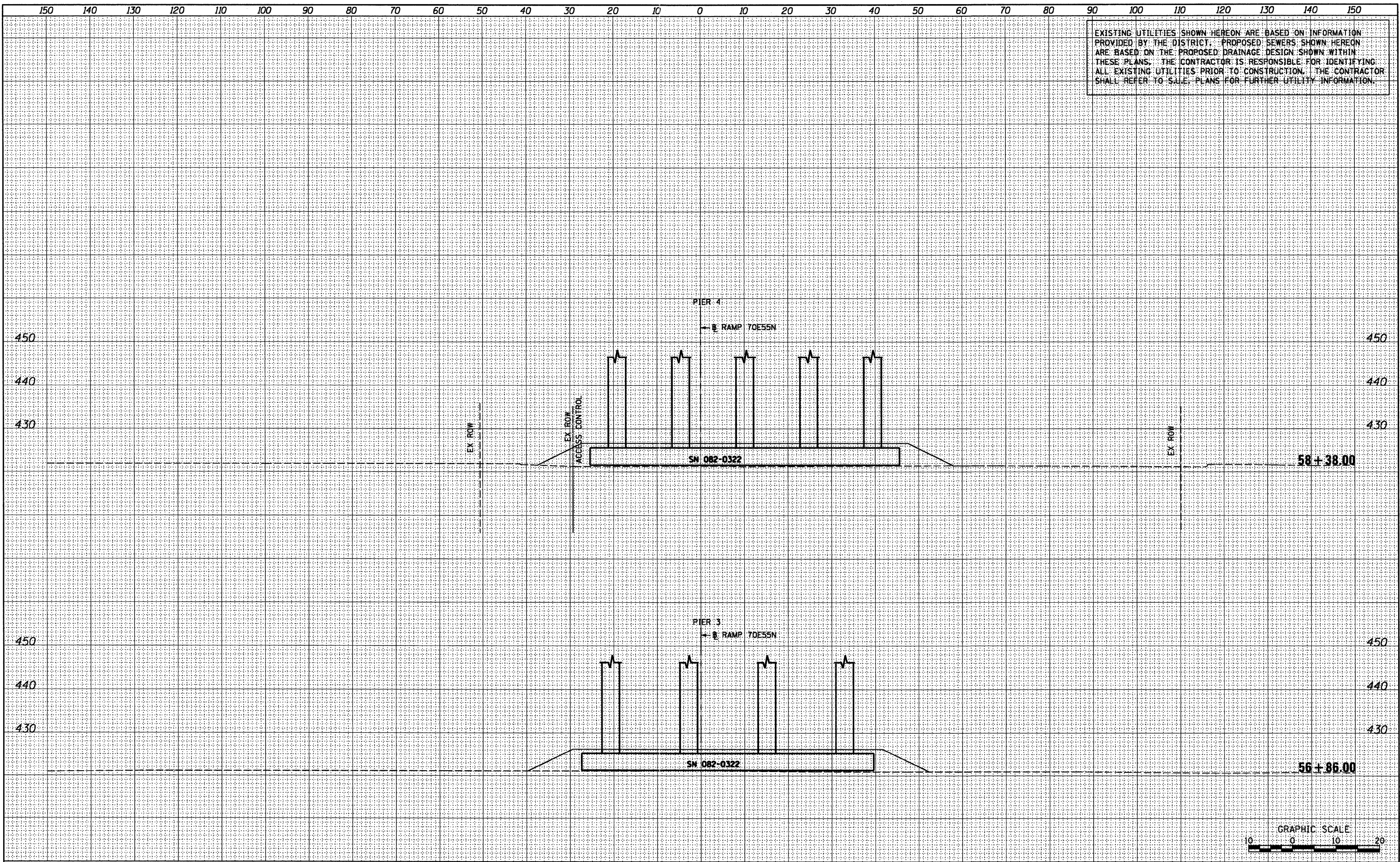
CROSS SECTIONS - SN 082-0322 PIERS
SCALE: 1" = 10' SHEET NO. 1 OF 6 SHEETS STA. 53+44.00 TO STA. 55+36.00

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
64/998	82-1-B-2	ST. CLAIR	399	391
CONTRACT NO. 76C76				
FED. ROAD DIST. NO.		ILLINOIS FED. AID PROJECT		

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FILE NAME = P:\P60046609\1000_Geopak\76C76\XS-Sheets\08TR
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 PLOT DATE = 6/30/2011

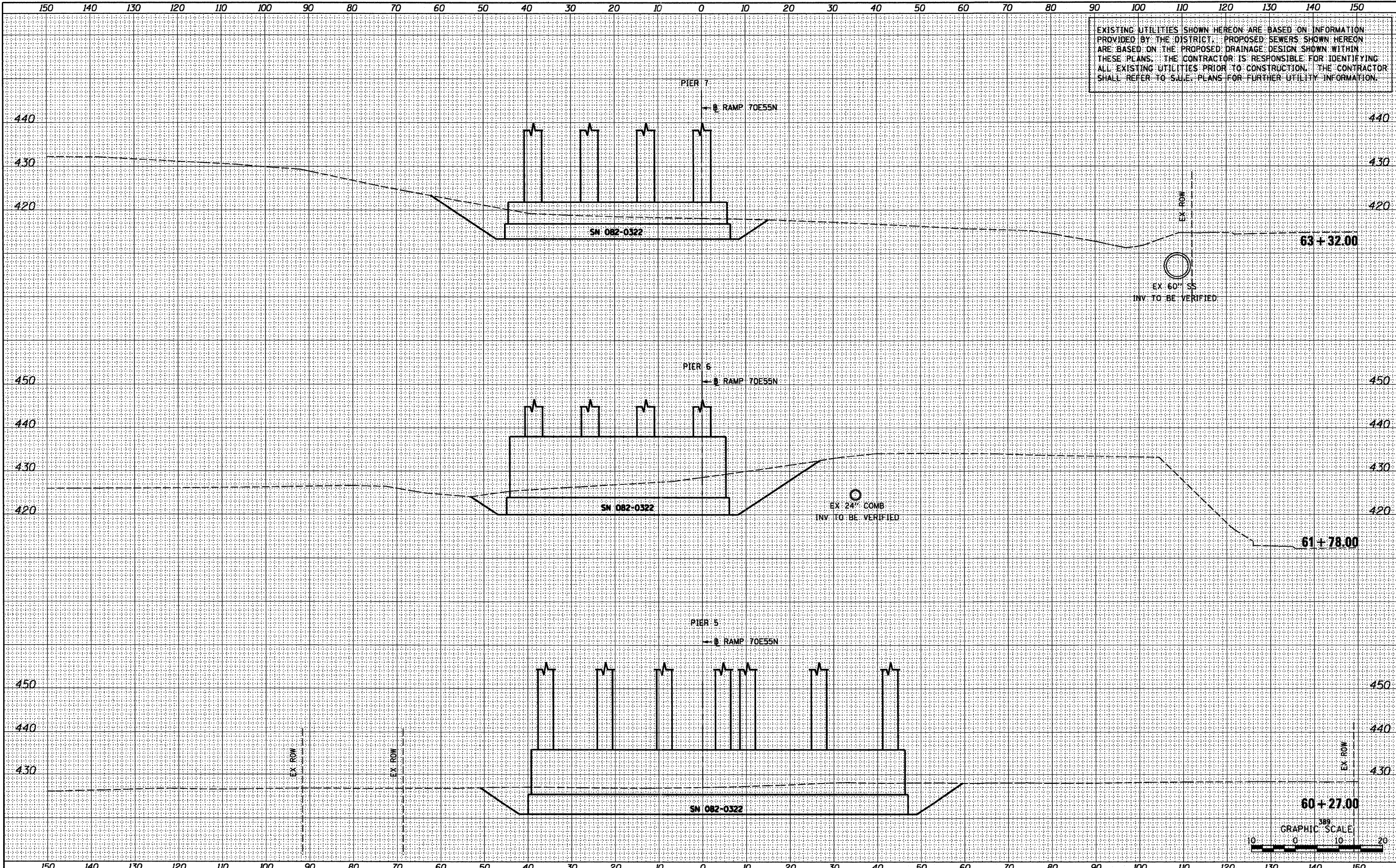
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**STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION**

CROSS SECTIONS - SN 082-0322 PIERS
 SCALE: 1" = 10' SHEET NO. 2 OF 6 SHEETS STA. 56+86.00 TO STA. 58+38.00

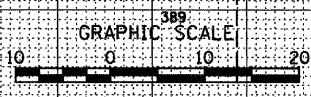
F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
64/998	82-1-B-2	ST. CLAIR	399	392
CONTRACT NO. 76C76		FED. ROAD DIST. NO. ILLINDIS FED. AID PROJECT		

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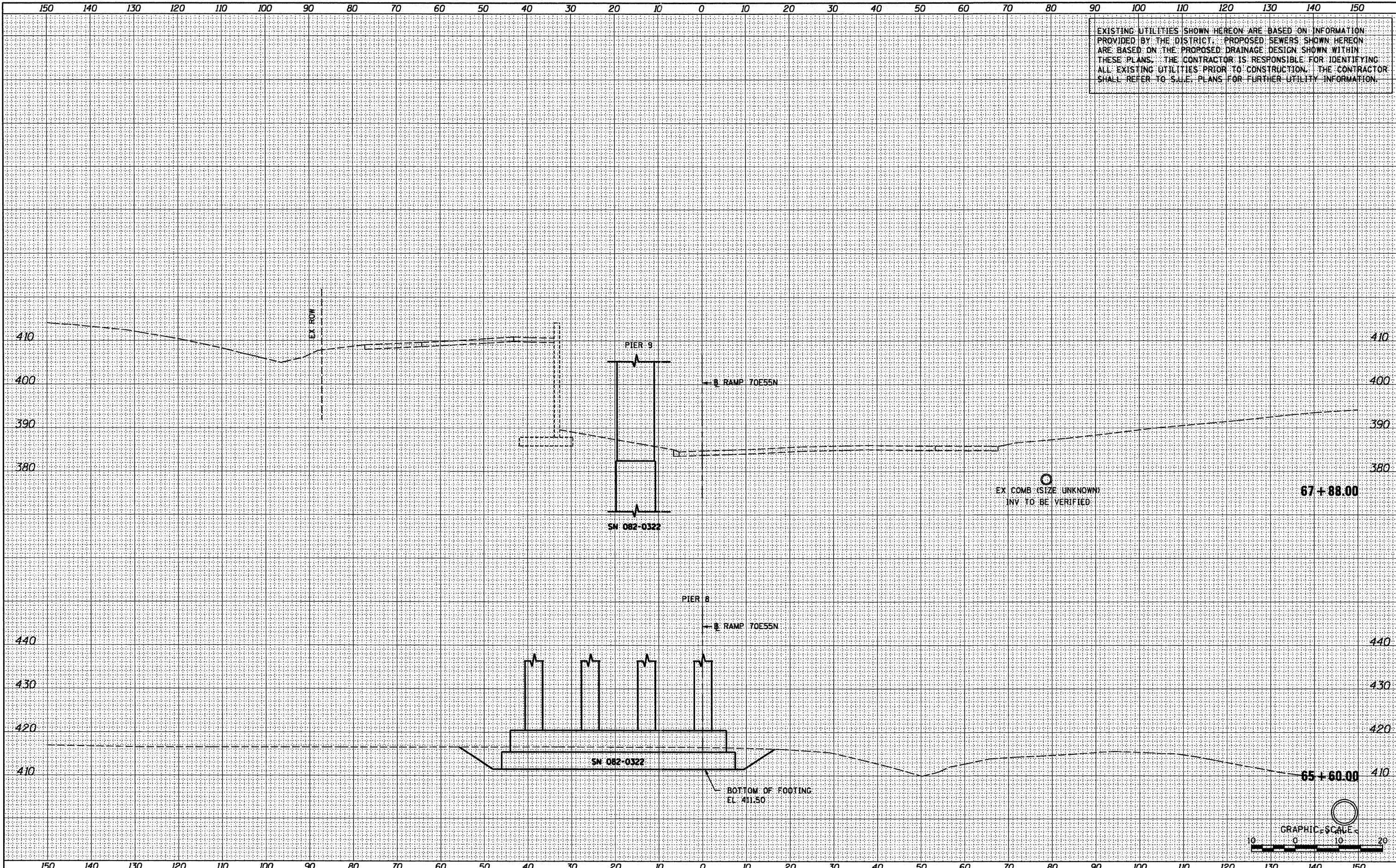
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P:\P6204669\1020_Ceopak\76C76\XS-Sheets\08TR	-76C76-sh.XS_082-0322 Piers.dgn	DRAWN OP	REVISED -			64/998	82-1-B-2	ST. CLAIR	399	393
PLDT SCALE = 20.0000' / in.		CHECKED DBM	REVISED -			CONTRACT NO. 76C76				
PLDT DATE = 8/9/2011		DATE 08-12-11	REVISED -			FED. ROAD DIST. NO. ILLINOIS FED. AID PROJECT				

SCALE: 1" = 10' SHEET NO. 3 OF 6 SHEETS STA. 60+27.00 TO STA. 63+32.00

EXISTING UTILITIES SHOWN HEREON ARE BASED ON INFORMATION PROVIDED BY THE DISTRICT. PROPOSED SEWERS SHOWN HEREON ARE BASED ON THE PROPOSED DRAINAGE DESIGN SHOWN WITHIN THESE PLANS. THE CONTRACTOR IS RESPONSIBLE FOR IDENTIFYING ALL EXISTING UTILITIES PRIOR TO CONSTRUCTION. THE CONTRACTOR SHALL REFER TO S.U.E. PLANS FOR FURTHER UTILITY INFORMATION.

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FILE NAME =	USER NAME = searab	DESIGNED	OP	REVISED	-
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	PLLOT DATE = 6/30/2011	DATE	07-01-11	REVISED	-

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

CROSS SECTIONS - SN 082-0322 PIERS

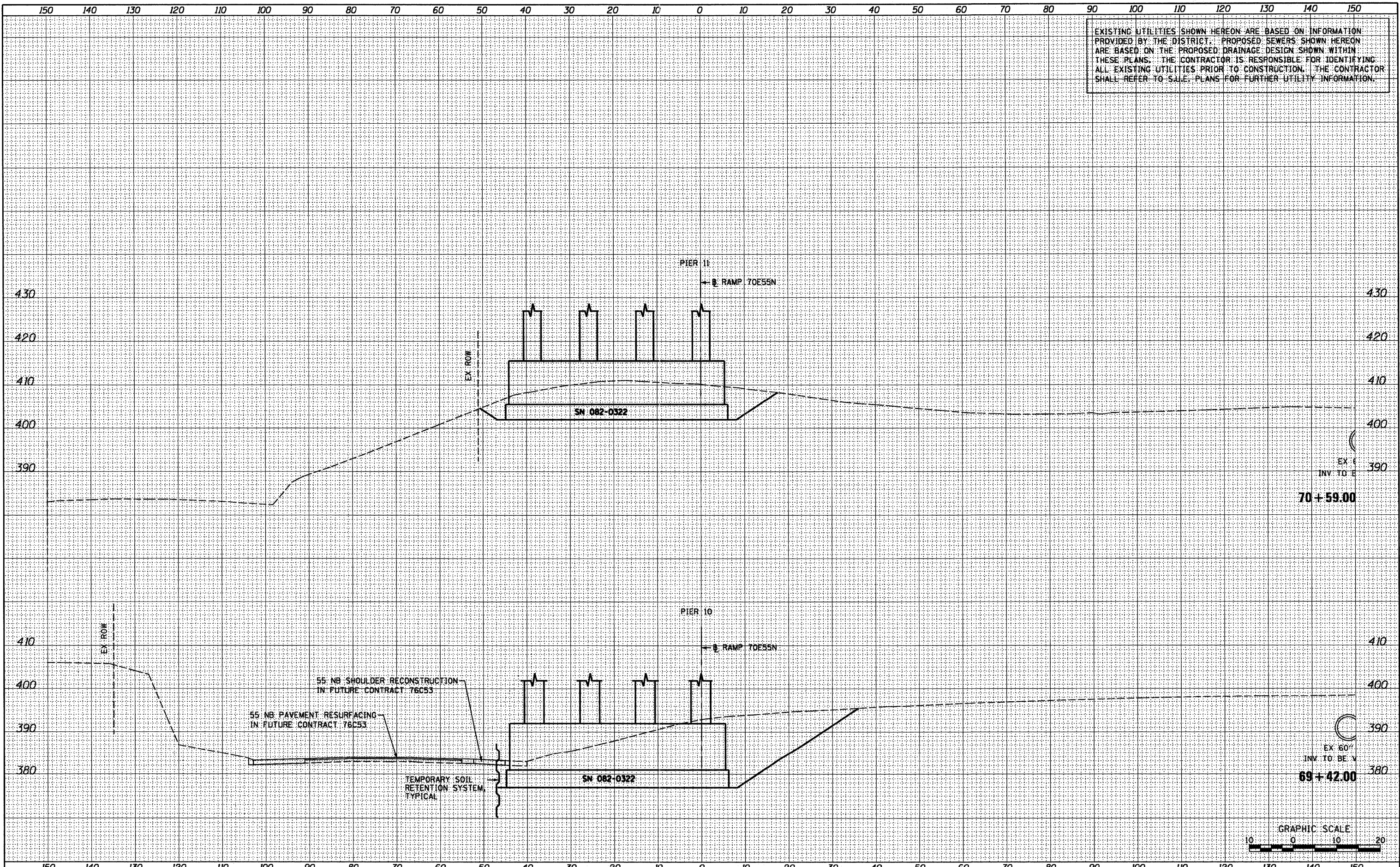
SCALE: 1" = 10' SHEET NO. 4 OF 6 SHEETS STA. 65+60.00 TO STA. 67+88.00

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
64/998	82-1-B-2	ST. CLAIR	399	394
FED. ROAD DIST. NO.			ILLINOIS FED. AID PROJECT	
			CONTRACT NO. 76C76	

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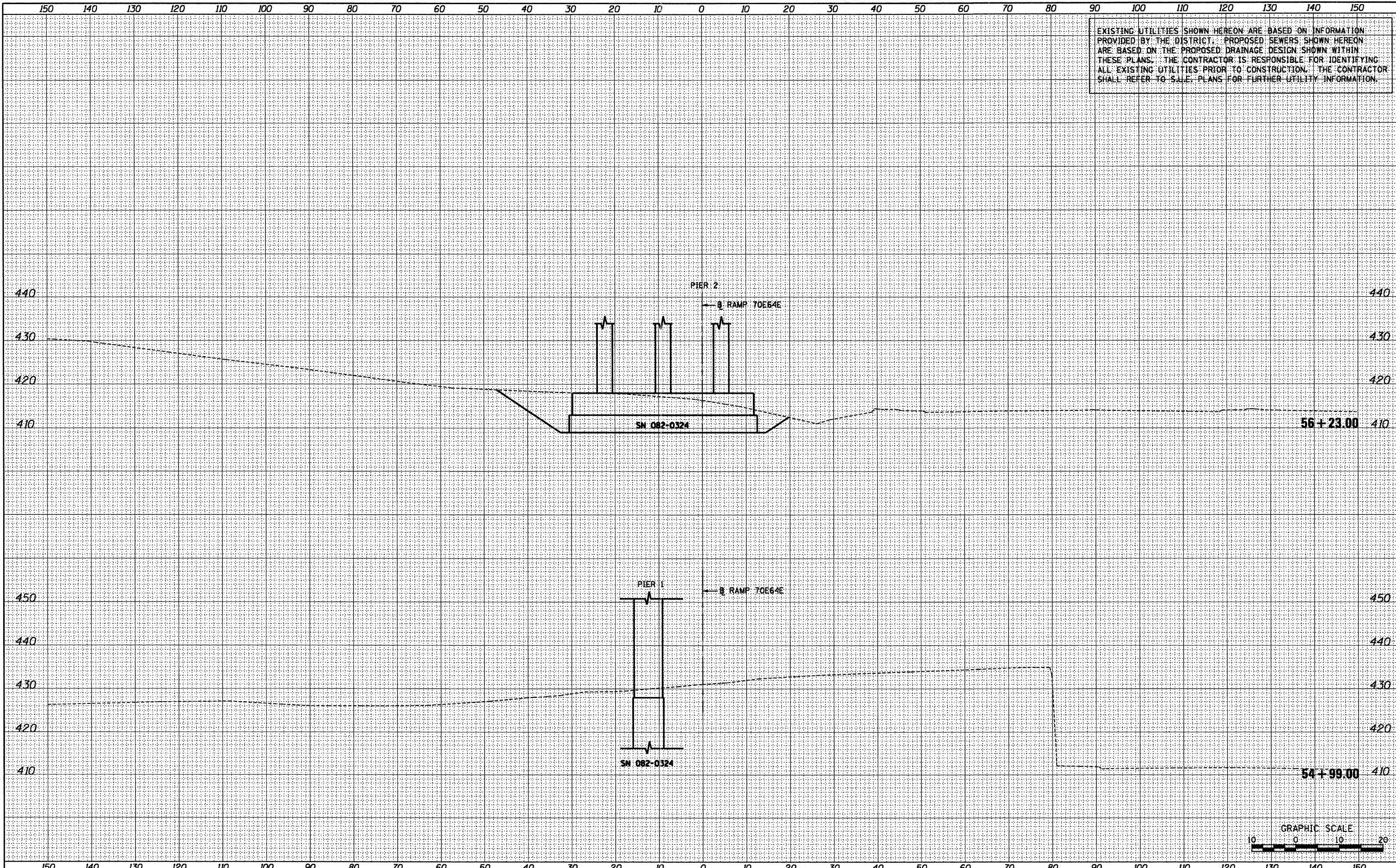


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	-76C76-shl.XS_082-0322 Piers.dgn	DRAWN OP	REVISED -		SCALE: 1" = 10'	SHEET NO. 5 OF 6 SHEETS	STA. 69+42.00 TO STA. 70+59.00	CONTRACT NO. 76C76		FED. ROAD DIST. NO. [ILLINOIS] FED. AID PROJECT		
	PLDT SCALE = 20.0000' / in.	CHECKED DBM	REVISED -									
	PLDT DATE = 8/9/2011	DATE 08-12-11	REVISED -									

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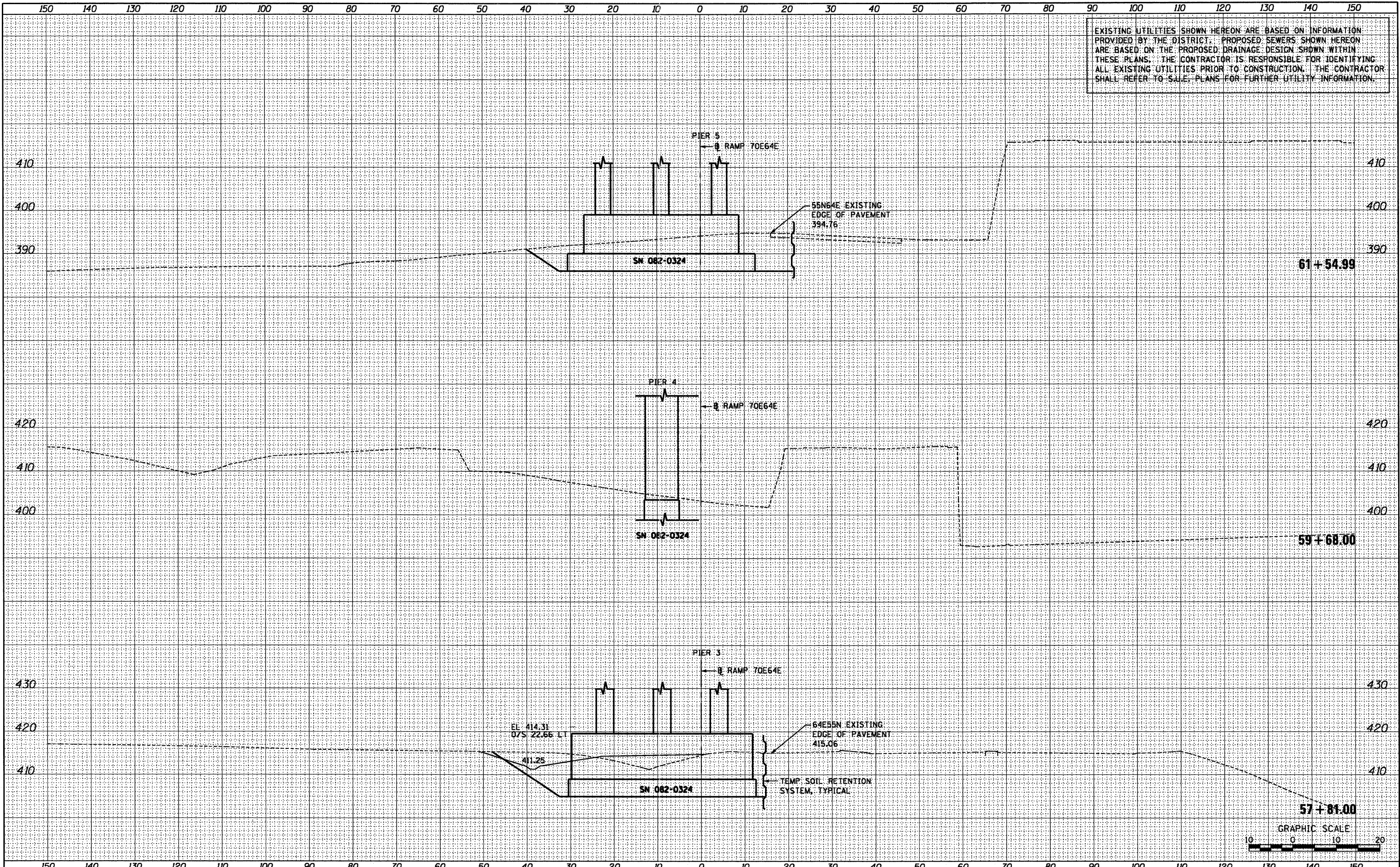
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FILE NAME =	USER NAME = sear-sb	DESIGNED OP	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	CROSS SECTIONS - SN 082-0324 PIERS			F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
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PLDT DATE = 6/30/2011	DATE	CHECKED DBM	REVISED -		CONTRACT NO. 76C76							
	07-01-11	DATE	REVISED -		FED. ROAD DIST. NO. ILLINOIS FED. AID PROJECT							

SCALE: 1" = 10' SHEET NO. 1 OF 3 SHEETS STA. 54+99.00 TO STA. 56+23.00

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