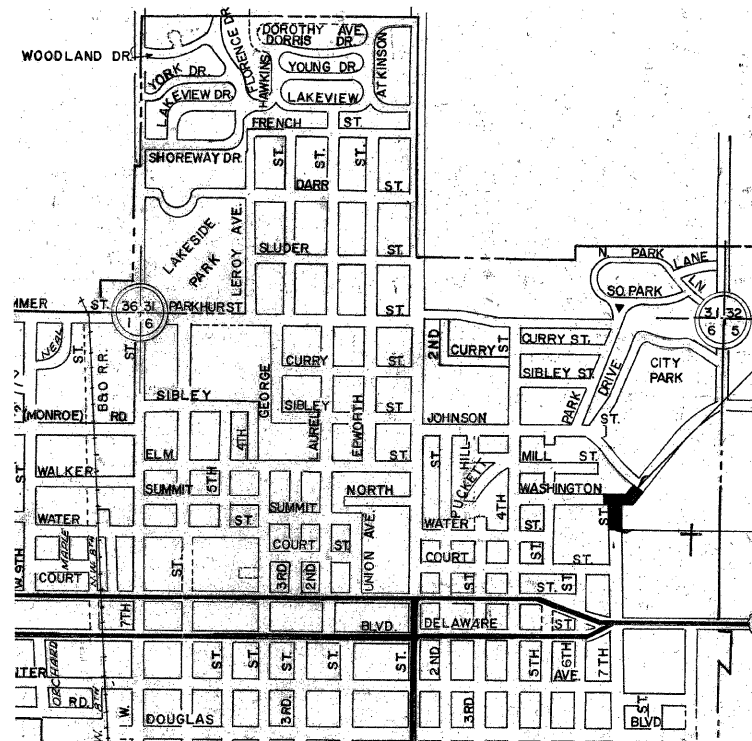


STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION
DIVISION OF HIGHWAYS
PLANS FOR PROPOSED
STREET IMPROVEMENT
S.T.U. FUNDS
CITY OF FAIRFIELD
WAYNE COUNTY
SECTION 06-00045-00-BR
N.E. SEVENTH ST. AND PARK ROAD (FAU ROUTE 8694)
PROPOSED STRUCTURE NO. 096-6011
PROJECT NO. M-5022(9)
JOB NO. C-97-006-08

INDEX OF SHEETS

1	COVER SHEET
2	SUMMARY OF QUANTITIES & DECORATIVE LIGHT DETAILS
3	TYPICAL SECTION, ENTRANCE DETAILS & PAVEMENT MARKING
4	PLAN & PROFILE
5-6	CROSS SECTIONS
7	PAVEMENT FINISHED ELEVATIONS
8-15	CULVERT PLANS
STANDARDS:	
420001-07	PAVEMENT JOINTS
420601-05	24" PCC PAVEMENT
420701-02	PAVEMENT FABRIC
424001-05	CURB RAMPS FOR SIDEWALKS
515001-02	NAME PLATE FOR BRIDGE
602301-01	INLET-TYPE A
602306-01	INLET-TYPE B
604001-02	FRAME & LIDS-TYPE 1
604051-02	FRAME & GRATE-TYPE 11
606001-03	CONC CURB-TYPE B & COMBO CONC. CURB & GUTTER
701901	TRAFFIC CONTROL DEVICES
BLR 21-7	TRAFFIC CONTROL
BLR 22-5	TRAFFIC CONTROL
720011	METAL POSTS
630001-07	SPBGR
720001	SIGN PANELS
720006-01	SIGN PANELS
780001-01	TYP. PAVEMENT MARKINGS
701801-03	SIDEWALK CLOSURE



SECTION 06-00045-00-BR
ENDS STA. 5+01.3

STA. 3+34-PROPOSED REINFORCED CONCRETE
BOX CULVERT (TRIPLE 10'-0" X 8'-6" X 116'-11 1/4")
30'-0" RDWY, SKEW = 60° L.F.
PROPOSED STR. NO. 096-6011
EXISTING STR. NO. 096-6006

SECTION 06-00045-00-BR
BEGINS STA. 0+80

CONTRACT NO. 95526

FUNCTIONAL CLASS: URBAN - MINOR ARTERIAL
ADT = 3750
DESIGN SPEED = 30 MPH

LOCATION MAP
APPROXIMATE SCALE: 1 INCH = 1,000 FEET
NET LENGTH = 421.3 FEET = 0.08 MILES

TOLL FREE JOINT UTILITY LOCATING
INFORMATION FOR EXCAVATORS (J.U.L.I.E.)
TELEPHONE NO. 1-800-892-0123

CONNOR & CONNOR, INC.
PROFESSIONAL DESIGN FIRM #184-000832

Michael Ross
REGISTERED PROFESSIONAL ENGINEER # 31350
ILLINOIS REGISTERED PROFESSIONAL ENGINEER # 31350
LICENSE EXPIRES NOVEMBER 30, 2009

APPROVED December 3, 2007
Sara Hutchcraft
LOCAL AGENCY REPRESENTATIVE

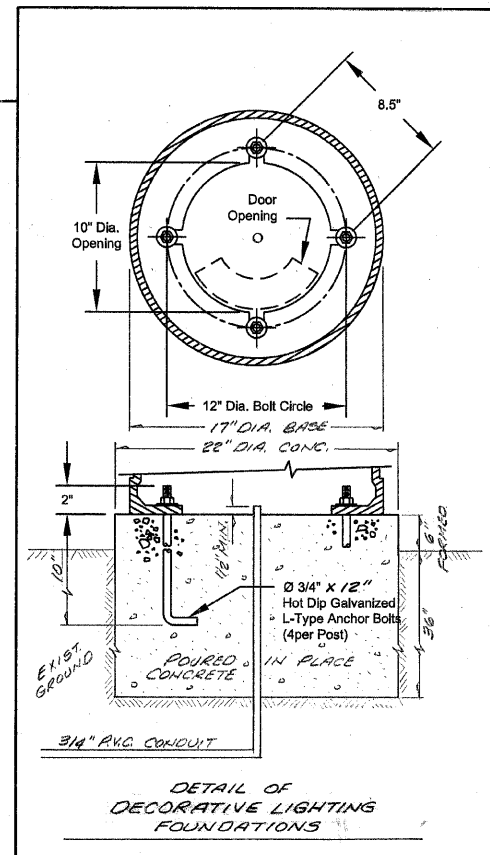
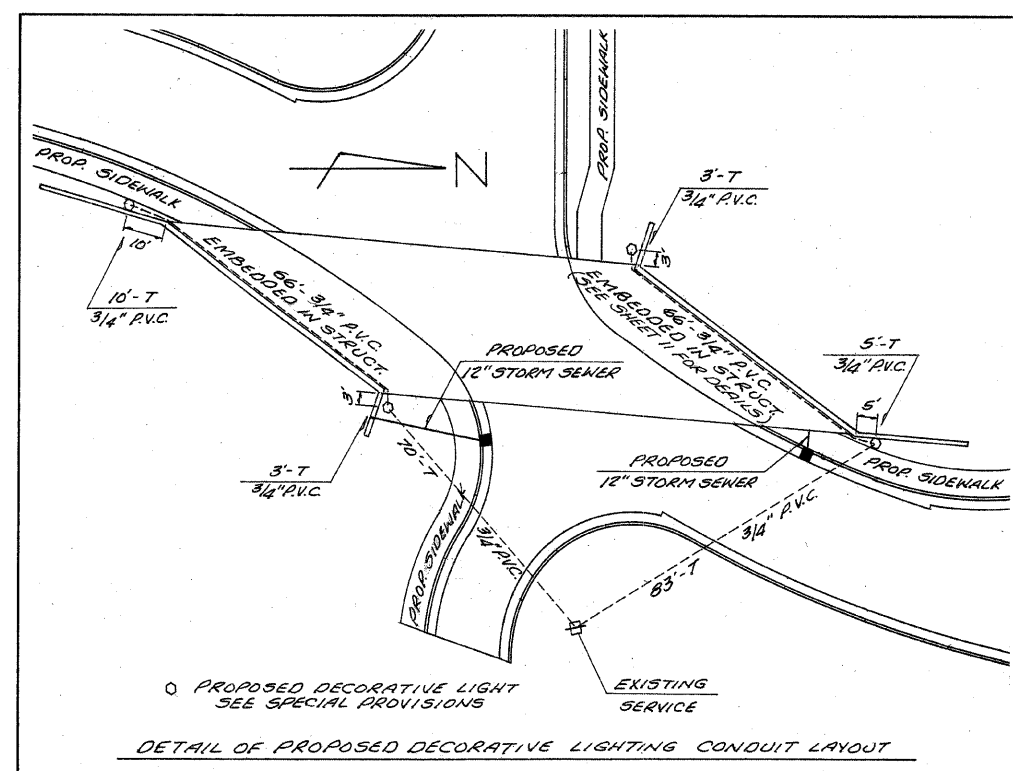
PASSED 1-02, 2008
Maurice E. Kroll
DISTRICT SEVEN ENGINEER
OF LOCAL ROADS & STREETS

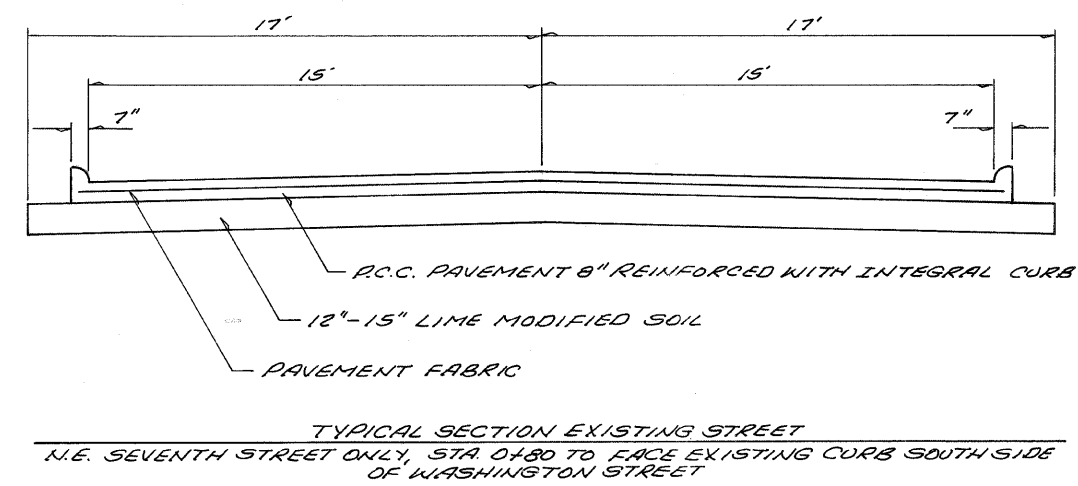
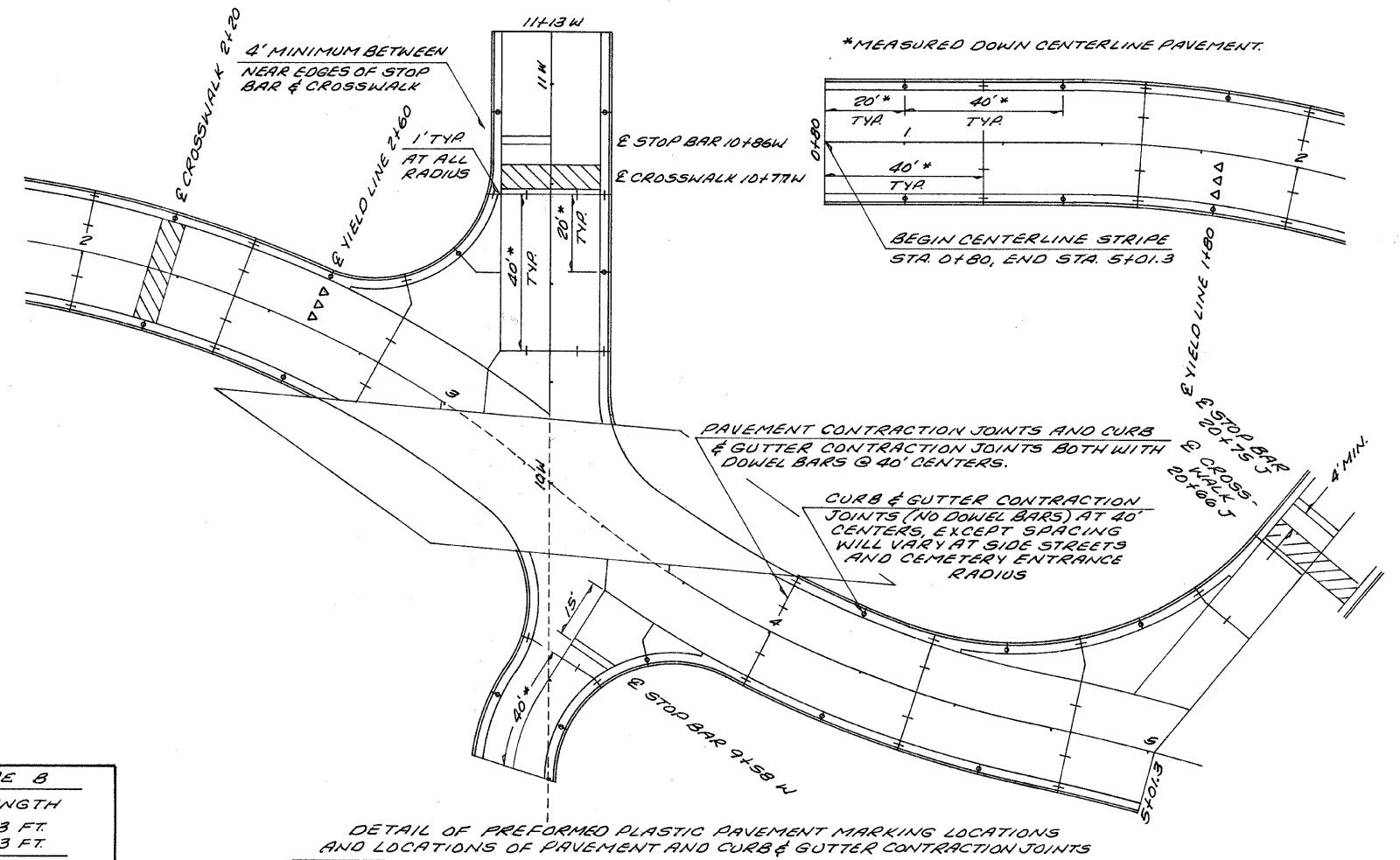
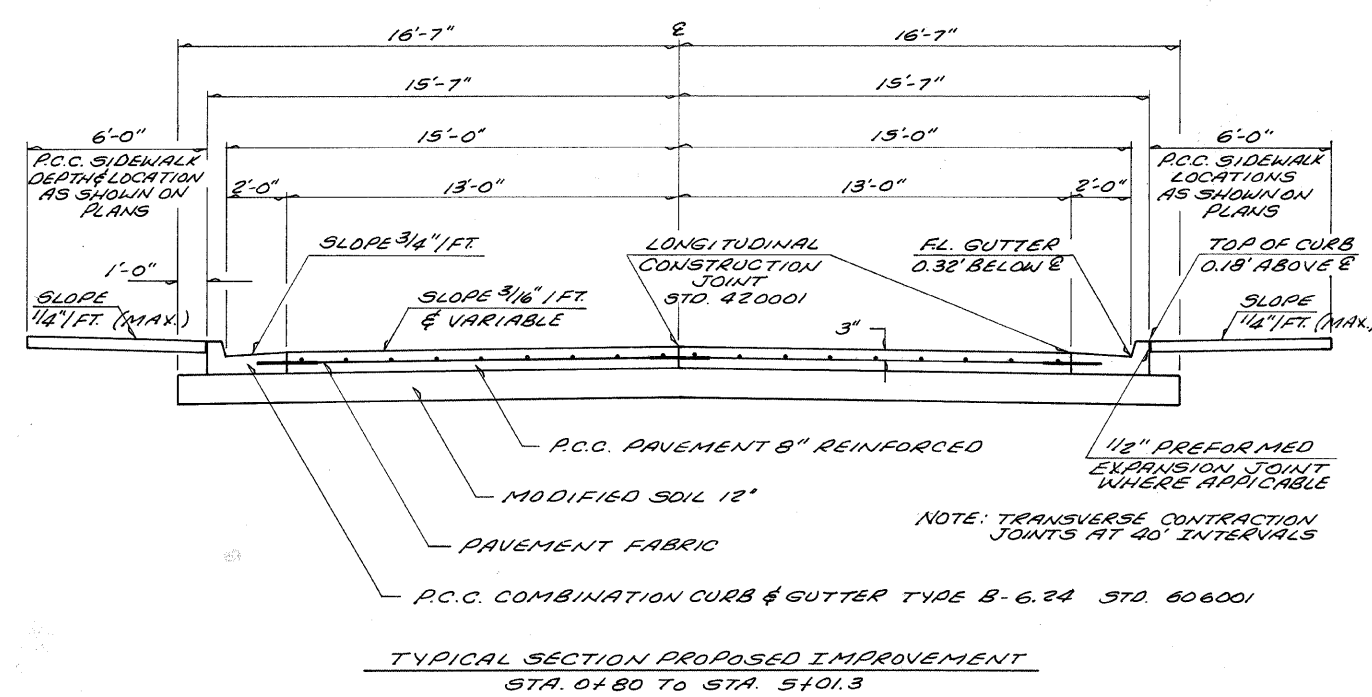
RELEASING FOR BID BASED ON LIMITED REVIEW
1-02, 2008
Christ M. Reed
DEPUTY DIRECTOR OF HIGHWAYS
REGION FOUR ENGINEER
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

SUMMARY OF QUANTITIES

QTY.	UNIT	ITEM	CODE
306	FOOT	ELECTRIC CABLE IN CONDUIT, NO. 10, 2C	XX007261 *
4	EACH	LIGHT POLE, SPECIAL	XX001136 *
32	CU YD	EARTH EXCAVATION	20200100
54	CU YD	CHANNEL EXCAVATION	20300100
265	CU YD	FURNISHED EXCAVATION	20400800
0.50	ACRE	SEEDING, CLASS 1 (SPECIAL)	25000900
71	TON	STONE DUMPED RIPRAP, CLASS A4	28100807
1946	SQ YD	PROCESSING MODIFIED SOIL 12"	30200650
49	TON	LIME	30201500
50	TON	AGGREGATE SURFACE COURSE, TYPE B	40200800
1636	SQ YD	PORTLAND CEMENT CONCRETE PAVEMENT 8"	42000300
1636	SQ YD	PAVEMENT FABRIC	42001200
94	SQ YD	PORTLAND CEMENT CONCRETE DRIVEWAY PAVEMENT, 6 INCH	42300200
2507	SQ FT	PORTLAND CEMENT CONCRETE SIDEWALK 4 INCH	42400100
1706	SQ FT	PORTLAND CEMENT CONCRETE SIDEWALK SPECIAL	42400500
50	SQ FT	DETECTABLE WARNINGS	42400800
878	SQ YD	PAVEMENT REMOVAL	44000100
81	SQ YD	DRIVEWAY PAVEMENT REMOVAL	44000200
533	FOOT	COMBINATION CURB AND GUTTER REMOVAL	44000500
441	SQ FT	SIDEWALK REMOVAL	44000600
1200	SQ YD	PAVEMENT REMOVAL (SPECIAL)	44004400
1	EACH	REMOVAL OF EXISTING STRUCTURES	50100100
3	EACH	FLOOR DRAINS	50300100
89900	POUND	REINFORCEMENT BARS, EPOXY COATED	50800205
198	FOOT	ALUMINUM RAILING	50900500
1	EACH	NAME PLATES	51500100
414.4	CU YD	CONCRETE BOX CULVERTS	54003000
208	FT	STORM SEWERS, TYPE 1, REINFORCED CONCRETE CULVERT, STORM DRAIN, AND SEWER PIPE, CLASS IV 12"	55019500
104	FT	STORM SEWERS, TYPE 1, REINFORCED CONCRETE CULVERT, STORM DRAIN, AND SEWER PIPE, CLASS IV 15"	55019600
206	FT	STORM SEWER REMOVAL 12"	55100500
18	FT	STORM SEWER REMOVAL 15"	55100700
743.4	CU YD	CONTROLLED LOW-STRENGTH MATERIAL	59300100
20	FOOT	PIPE DRAINS 4"	60100905
2	EACH	INLETS, TYPE A, TYPE 1 FRAME, CLOSED LID	60235300
7	EACH	INLETS, TYPE A, TYPE 11 FRAME AND GRATE	60236800
2	EACH	INLETS, TYPE B, TYPE 1 FRAME, CLOSED LID	60240215
2	EACH	MANHOLES TO BE ADJUSTED	60255500
8	EACH	REMOVING INLETS	60500060
926	FOOT	COMBINATION CONCRETE CURB AND GUTTER, TYPE B-6.24	60605000
50	FOOT	STEEL PLATE BEAM GUARD RAIL, TYPE B	63000005 *
237	FOOT	STEEL PLATE BEAM GUARD RAIL REMOVAL	63200305
6	CAL MO	ENGINEERS FIELD OFFICE, TYPE B	67000500
1	L SUM	MOBILIZATION	67100100
1	L SUM	TRAFFIC CONTROL AND PROTECTION	70101700
1	L SUM	TRAFFIC CONTROL AND PROTECTION, STANDARD 701801	70102440
6	SQ FT	SIGN PANEL - TYPE 1	72000100
26	FOOT	METAL POST - TYPE B	72900200
24	SQ FT	PREFORMED PLASTIC PAVEMENT MARKING, TYPE B - LETTERS AND SYMBOLS	78003100 *
110	FOOT	PREFORMED PLASTIC PAVEMENT MARKING, TYPE B - LINE 4"	78003110 *
374	FOOT	PREFORMED PLASTIC PAVEMENT MARKING, TYPE B - LINE 12"	78003150 *
39	FOOT	PREFORMED PLASTIC PAVEMENT MARKING, TYPE B - LINE 24"	78003180 *
1	L SUM	ELECTRIC UTILITY SERVICE CONNECTION	80400200 *
174	FOOT	CONDUIT IN TRENCH, 3/4" DIA., PVC	81012200 *
132	FOOT	CONDUIT EMBEDDED IN STRUCTURE, 3/4" DIA., PVC	81200200 *
174	FOOT	TRENCH AND BACKFILL FOR ELECTRIC WORK	81900200 *
4	EACH	LIGHT POLE FOUNDATION	83600100 *

* SPECIALTY ITEMS



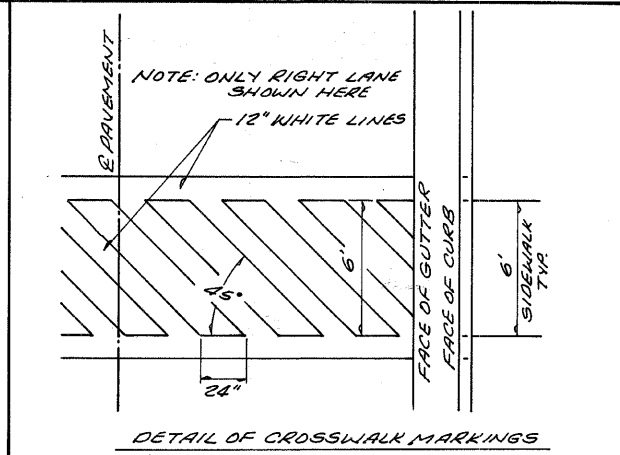
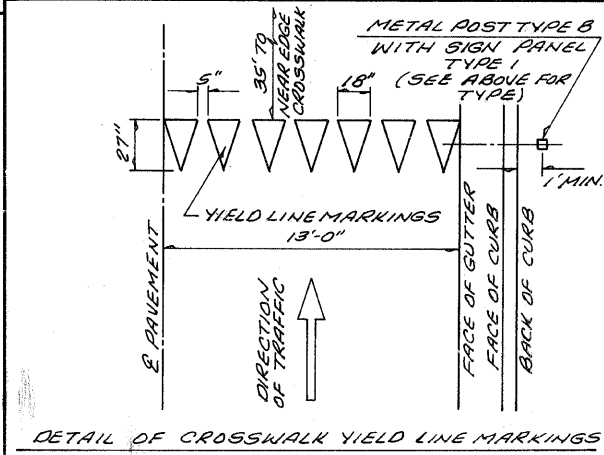
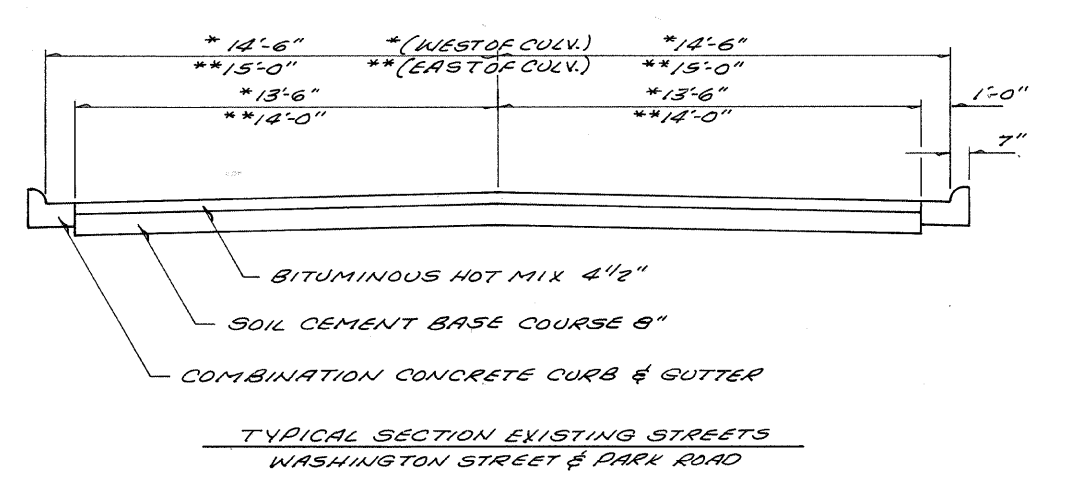


METAL POST TYPE B

LOCATION	LENGTH
RT. STA. 1+80	= 13 FT.
LT. STA. 2+60	= 13 FT.
TOTAL	= 26 FT.

SIGN PANEL TYPE 1

LOCATION	TYPE	AREA
RT. STA. 1+80	YIELD HERE TO PEDESTRIANS (R1-5a)	= 3.0 SQ. FT.
LT. STA. 2+60	YIELD HERE TO PEDESTRIANS (R1-5a)	= 3.0 SQ. FT.
TOTAL		= 6.0 SQ. FT.

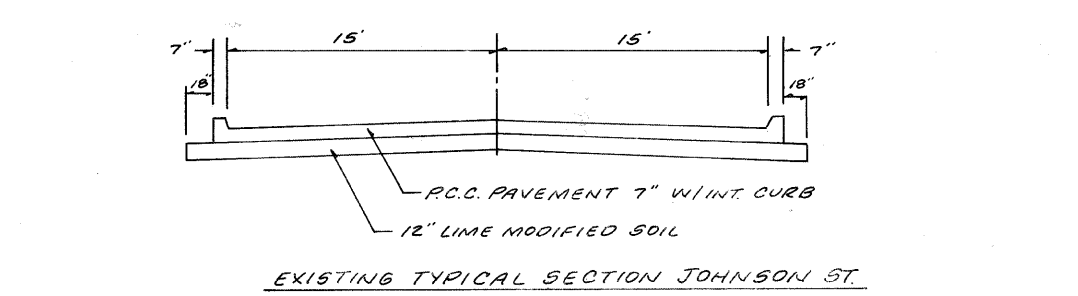
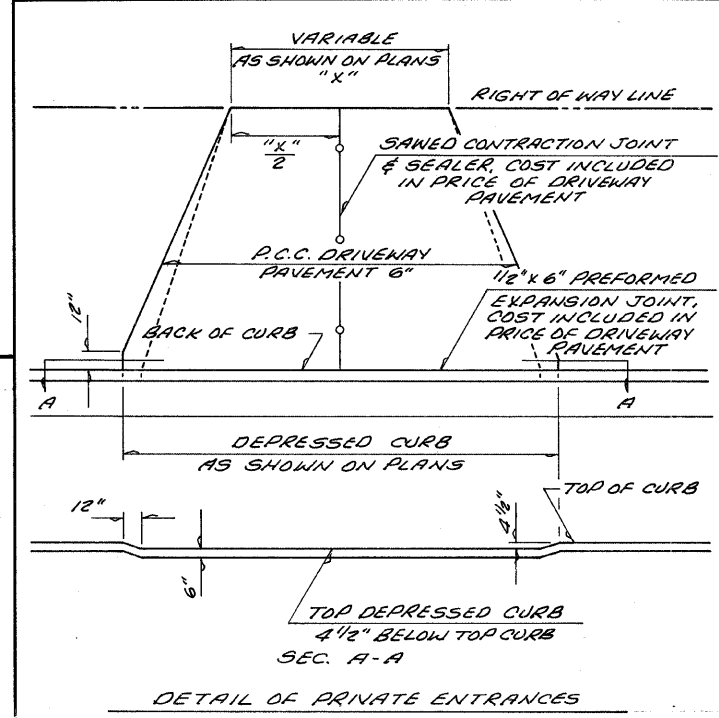


PREFORMED PLASTIC PAVEMENT MARKINGS LETTERS & SYMBOLS

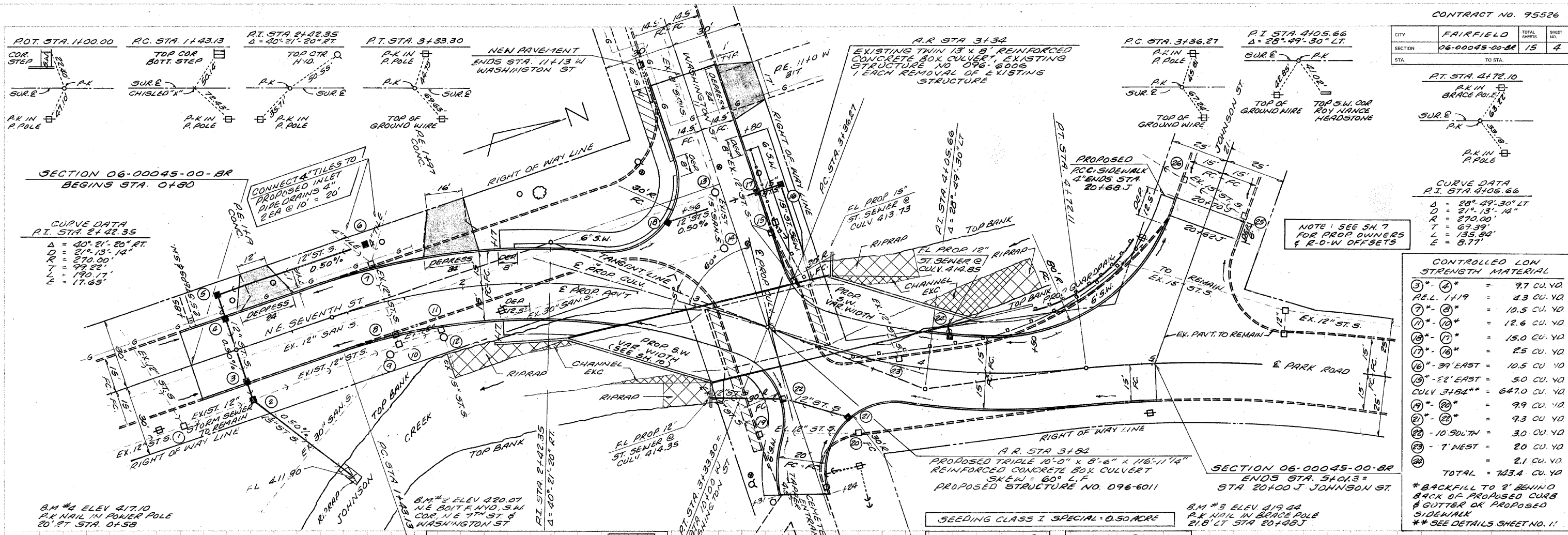
(WHITE) CROSSWALK YIELD LINES	RT. STA. 1+80	= 12 SQ. FT.
SEE DETAIL ABOVE	LT. STA. 2+60	= 12 SQ. FT.
TOTAL		= 24 SQ. FT.

PREFORMED PLASTIC PAVEMENT MARKING LINES

	4" LINES	12" LINES	24" LINES
(YELLOW) CENTERLINE STRIPE	STA. 0+80 TO STA. 5+0.3	= 110 FT.	
(WHITE) CROSSWALKS	LT. & RT. STA. 2+20	= 126 FT.	
SEE DETAIL ABOVE	LT. & RT. STA. 10+77W	= 122 FT.	
	LT. & RT. STA. 20+66J	= 126 FT.	
(WHITE) STOP BARS	RT. STA. 9+58W	= 13 FT.	
	LT. STA. 10+86W	= 13 FT.	
	LT. STA. 20+74J	= 13 FT.	
TOTAL	= 110 FT.	314 FT.	39 FT.



CITY	FAIRFIELD	TOTAL SHEETS	15	SHEET NO.	4
SECTION	06-00045-00-BR	TO STA.			



PAVEMENT REMOVAL W/IC STA 20+62J TO 20+70J = 28 STA 0+80 TO STA 3+14 = 850 TOTAL = 878 SQ. YD.	DRIVEWAY PAVEMENT REMOVAL LT STA 1+19 = 24.1 SQ. YD. LT STA 1+97 = 29.2 SQ. YD. RT STA 1+00 = 28.1 SQ. YD. TOTAL = 81.4 SQ. YD.
PAVEMENT REMOVAL (SPECIAL) WASHINGTON ST. 10+13N TO 11+13N PARK ROAD: EAST EDGE EXIST. CULV. TO 5+01.3 JOHNSON ST.: LT. 20+62J TO 20+62J TOTAL = 1200 SQ. YD.	P.C.C. DRIVEWAY PAVEMENT 6" LT STA 1+19 = 24.6 SQ. YD. LT STA 1+97 = 40.4 SQ. YD. RT STA 1+00 = 29.4 SQ. YD. TOTAL = 94.4 SQ. YD.
P.C.C. PAVEMENT 8" LT & RT STA 0+80 TO LT 20+62J = 1613 LT & RT 20+62J TO 20+70J = 29 TOTAL = 1636 SQ. YD.	P.C.C. COMBINATION CURB & GUTTER TYPE B-6.24 LT STA. 0+80 TO 11+13N = 280 FT. RT STA. 0+80 TO 2+69 CULV. = 186 FT. LT STA. 4+00 CULV. TO 20+70J = 136 FT. RT STA. 9+24N TO 5+01.3 = 169 FT. LT STA. 9+31N TO 9+33N CULV. = 56 FT. RT STA. 10+14N CULV. TO 11+13N = 99 FT. TOTAL = 926 FT.
PAVEMENT FABRIC LT & RT 0+80 TO LT 20+62J = 1613 LT & RT 20+62J TO 20+70J = 29 TOTAL = 1636 SQ. YD.	COMBINATION CURB & GUTTER REMOVAL LT STA. 9+18N TO 10+15N = 73 FT. RT STA. 11+13N TO 20+62J = 302 FT. RT STA. 9+30N TO 5+01.3 = 158 FT. TOTAL = 533 FT.

PAVEMENT REMOVAL (SPECIAL) WASHINGTON ST. 10+13N TO 11+13N PARK ROAD: EAST EDGE EXIST. CULV. TO 5+01.3 JOHNSON ST.: LT. 20+62J TO 20+62J TOTAL = 1200 SQ. YD.	P.C.C. DRIVEWAY PAVEMENT 6" LT STA 1+19 = 24.6 SQ. YD. LT STA 1+97 = 40.4 SQ. YD. RT STA 1+00 = 29.4 SQ. YD. TOTAL = 94.4 SQ. YD.
P.C.C. PAVEMENT 8" LT & RT STA 0+80 TO LT 20+62J = 1613 LT & RT 20+62J TO 20+70J = 29 TOTAL = 1636 SQ. YD.	P.C.C. COMBINATION CURB & GUTTER TYPE B-6.24 LT STA. 0+80 TO 11+13N = 280 FT. RT STA. 0+80 TO 2+69 CULV. = 186 FT. LT STA. 4+00 CULV. TO 20+70J = 136 FT. RT STA. 9+24N TO 5+01.3 = 169 FT. LT STA. 9+31N TO 9+33N CULV. = 56 FT. RT STA. 10+14N CULV. TO 11+13N = 99 FT. TOTAL = 926 FT.

PAVEMENT REMOVAL W/IC STA 20+62J TO 20+70J = 28 STA 0+80 TO STA 3+14 = 850 TOTAL = 878 SQ. YD.	DRIVEWAY PAVEMENT REMOVAL LT STA 1+19 = 24.1 SQ. YD. LT STA 1+97 = 29.2 SQ. YD. RT STA 1+00 = 28.1 SQ. YD. TOTAL = 81.4 SQ. YD.
PAVEMENT REMOVAL (SPECIAL) WASHINGTON ST. 10+13N TO 11+13N PARK ROAD: EAST EDGE EXIST. CULV. TO 5+01.3 JOHNSON ST.: LT. 20+62J TO 20+62J TOTAL = 1200 SQ. YD.	P.C.C. DRIVEWAY PAVEMENT 6" LT STA 1+19 = 24.6 SQ. YD. LT STA 1+97 = 40.4 SQ. YD. RT STA 1+00 = 29.4 SQ. YD. TOTAL = 94.4 SQ. YD.

PAVEMENT REMOVAL W/IC STA 20+62J TO 20+70J = 28 STA 0+80 TO STA 3+14 = 850 TOTAL = 878 SQ. YD.	DRIVEWAY PAVEMENT REMOVAL LT STA 1+19 = 24.1 SQ. YD. LT STA 1+97 = 29.2 SQ. YD. RT STA 1+00 = 28.1 SQ. YD. TOTAL = 81.4 SQ. YD.
PAVEMENT REMOVAL (SPECIAL) WASHINGTON ST. 10+13N TO 11+13N PARK ROAD: EAST EDGE EXIST. CULV. TO 5+01.3 JOHNSON ST.: LT. 20+62J TO 20+62J TOTAL = 1200 SQ. YD.	P.C.C. DRIVEWAY PAVEMENT 6" LT STA 1+19 = 24.6 SQ. YD. LT STA 1+97 = 40.4 SQ. YD. RT STA 1+00 = 29.4 SQ. YD. TOTAL = 94.4 SQ. YD.

PAVEMENT REMOVAL W/IC STA 20+62J TO 20+70J = 28 STA 0+80 TO STA 3+14 = 850 TOTAL = 878 SQ. YD.	DRIVEWAY PAVEMENT REMOVAL LT STA 1+19 = 24.1 SQ. YD. LT STA 1+97 = 29.2 SQ. YD. RT STA 1+00 = 28.1 SQ. YD. TOTAL = 81.4 SQ. YD.
PAVEMENT REMOVAL (SPECIAL) WASHINGTON ST. 10+13N TO 11+13N PARK ROAD: EAST EDGE EXIST. CULV. TO 5+01.3 JOHNSON ST.: LT. 20+62J TO 20+62J TOTAL = 1200 SQ. YD.	P.C.C. DRIVEWAY PAVEMENT 6" LT STA 1+19 = 24.6 SQ. YD. LT STA 1+97 = 40.4 SQ. YD. RT STA 1+00 = 29.4 SQ. YD. TOTAL = 94.4 SQ. YD.

LOCATION	TYPE	GRATE	INVERT
① 23.5' RT. 0+65	EXIST INLET TO REMAIN	416.89	412.88
② 22.0' RT. 1+00	INLET TA T.I.F.C.L.	415.70	412.17
③ 14.8' RT. 1+00	INLET TA T.I.I.F.G.	415.82	412.21
④ 14.8' LT. 1+00	INLET TA T.I.I.F.G.	415.82	412.36
⑤ 25.0' LT. 1+00	INLET TA T.I.F.C.L.	417.00	412.41
⑥ 25.0' LT. 1+67	INLET TA T.I.F.C.L.	417.00	412.75
⑦ 15.0' LT. 1+67	EXIST INLET TO BE REMOVED		
⑧ 15.0' RT. 1+67	EXIST INLET TO BE REMOVED		
⑨ 22.0' RT. 1+64	EXIST SAN. M.H. TO REMAIN	416.70	
⑩ 20.0' RT. 1+67	EXIST INLET TO BE REMOVED		
⑪ 17.0' RT. 1+88	EXIST INLET TO BE REMOVED		
⑫ 20.0' RT. 1+88	EXIST SAN. M.H. TO REMAIN	416.60	
⑬ 3.0' LT. 10+33N	EXIST SAN. M.H. TO BE ADJ.	418.46	411.96
⑭ 6.0' LT. 10+33N	EXIST SAN. M.H. TO BE ADJ.	418.35	411.35
⑮ 14.5' RT. 10+38W	EXIST INLET TO BE REMOVED		
⑯ 25.0' RT. 10+56W	INLET TA T.I.F.C.L.	417.40	414.15
⑰ 14.5' RT. 10+56W	INLET TA T.I.I.F.G.	417.70	414.19
⑱ 27.0' LT. 10+56W	INLET TA T.I.I.F.G.	417.52	414.18
⑲ 44.0' RT. 3+45	EXIST INLET TO BE REMOVED		
⑳ 32.0' RT. 3+40	EXIST INLET TO BE REMOVED		
㉑ 28.0' RT. 3+75	INLET TA T.I.I.F.G.	417.99	414.65
㉒ 26.0' RT. 3+48	INLET TA T.I.I.F.G.	418.03	414.51
㉓ 3.0' LT. 3+90	EXIST INLET TO BE REMOVED		
㉔ 15.0' LT. 4+12	INLET TA T.I.I.F.G.	418.31	414.89
㉕ 15.0' RT. 20+72J	EXIST INLET TO REMAIN	418.37	
㉖ 15.0' LT. 20+77J	EXIST INLET TO REMAIN	418.38	

GUARDRAIL REMOVAL LT 3+07 TO LT 3+43 = 63 FT. RT 3+22 TO RT 3+43 = 37 FT. RT 3+70 TO LT 20+47J = 137 FT. TOTAL = 237 FT.	STEEL PLATE BEAM GUARDRAIL, TYPE B 2 END SECTIONS (COST INCLUDED) LT. 3+50 TO LT. 20+46J TOTAL = 50 FT.
--	--

PROCESSING MODIFIED SOIL 12" LT. & RT. STA. 0+80 TO 20+62 J TOTAL = 1946 SQ. YD.	LIME LT. & RT. STA. 0+80 TO 20+62 J TOTAL = 49 TON
---	---

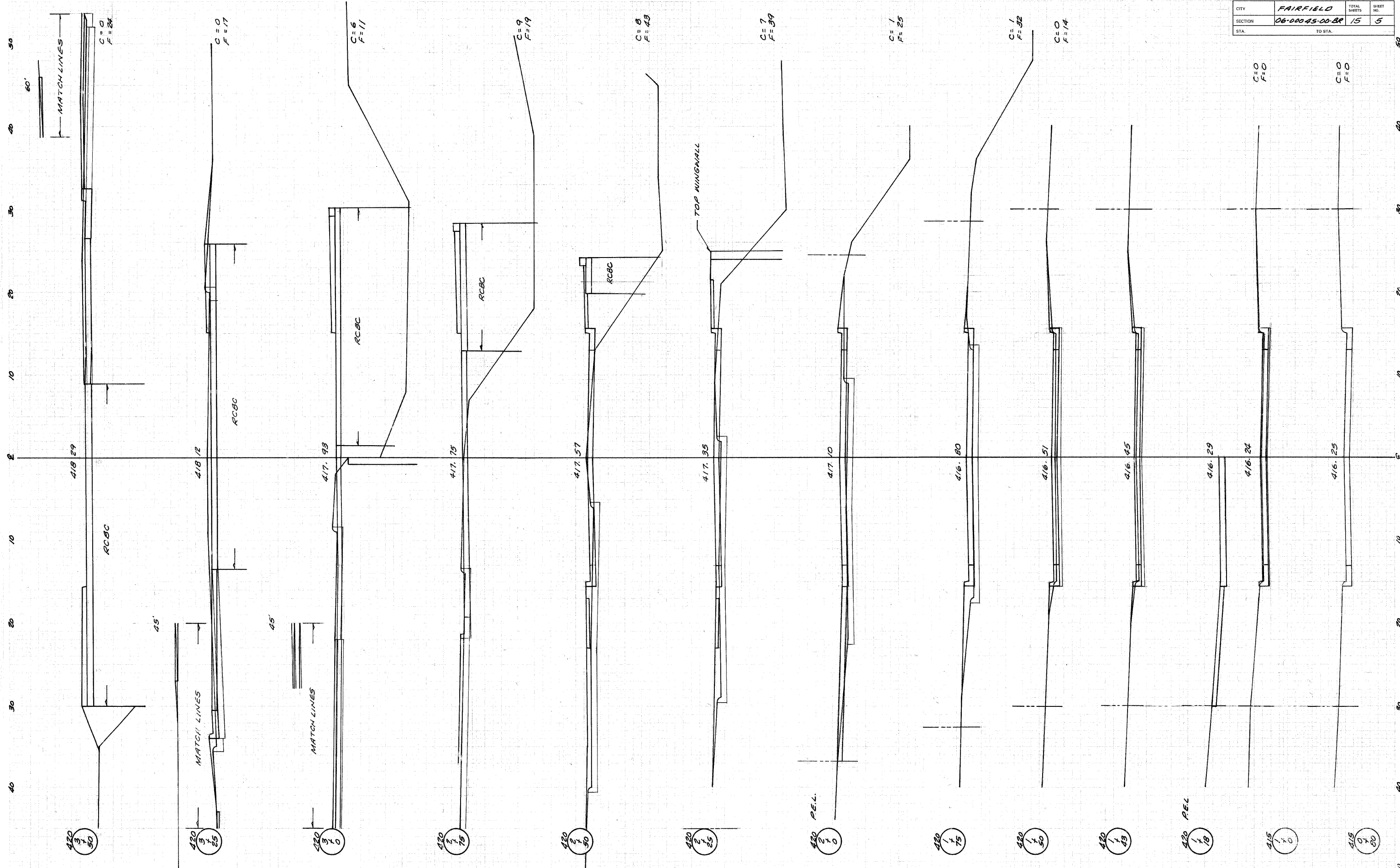
STONE DUMPED RIPRAP CL. A4 65' RT. STA. 1+30 = 2 TON N.W. WINGWALL = 21 TON N.E. WINGWALL = 18 TON S.W. WINGWALL = 15 TON S.E. WINGWALL = 15 TON TOTAL = 71 TON	DETECTABLE WARNINGS LT 10+77W = 10 SQ. FT. RT 10+77W = 10 SQ. FT. LT 2+55 = 10 SQ. FT. RT 2+55 = 10 SQ. FT. LT 20+65J = 10 SQ. FT. TOTAL = 50 SQ. FT.
--	--

STORM SEWER REMOVAL 12" ② - ⑩ = 66 FT. ⑦ - ⑨ = 28 FT. ⑮ - ⑰ = 18 FT. ⑲ - CULV. = 24 FT. ⑳ - CULV. = 24 FT. ㉑ - CREEK = 6 FT. ㉒ - CREEK = 22 FT. ㉓ - ㉔ = 42 FT. TOTAL = 206 FT.	P.C.C. SIDEWALK SPECIAL ON CULV. LT. = 834 SQ. FT. ON CULV. RT. = 872 SQ. FT. TOTAL = 1706 SQ. FT.
--	---

STORM SEWER TY. I R.C.C. CL. 4 15" ② - ③ = 5 FT. ③ - ④ = 20 FT. ④ - ⑤ = 8 FT. ⑤ - ⑥ = 65 FT. ⑦ - ⑩ = 39 FT. ⑪ - ㉒ = 28 FT. ㉓ - WING = 31 FT. ㉔ - CULV. = 4 FT. TOTAL = 208 FT.	STORM SEWER TY. I R.C.C. CL. 4 15" ② - CREEK = 54 FT. ③ - CULV. = 42 FT. ④ - ⑦ = 8 FT. TOTAL = 104 FT.
--	---

EARTH EXCAVATION	=	32 CU. YD.
EARTH EXCAVATION ADJUSTED 25%	=	24 CU. YD.
CHANNEL EXCAVATION	=	54 CU. YD.
CHANNEL EXCAVATION ADJUSTED 25%	=	41 CU. YD.
EMBANKMENT	=	330 CU. YD.
FURNISHED EXCAVATION	=	265 CU. YD.

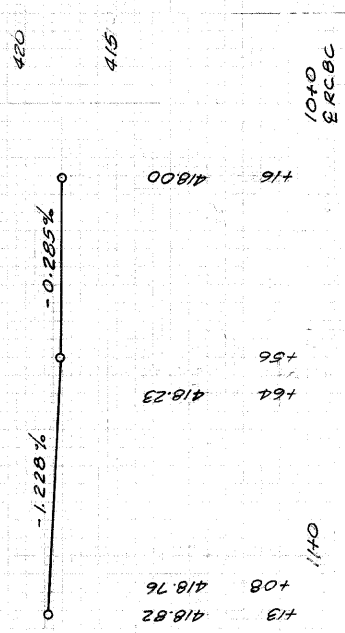
CITY	FAIRFIELD	TOTAL SHEETS	SHEET NO.
SECTION	06-000-45-00-BR	15	5
STA.	TO STA.		



PROJECT: ROADWAY
 DRAWN BY: [Name]
 CHECKED BY: [Name]
 DATE: [Date]

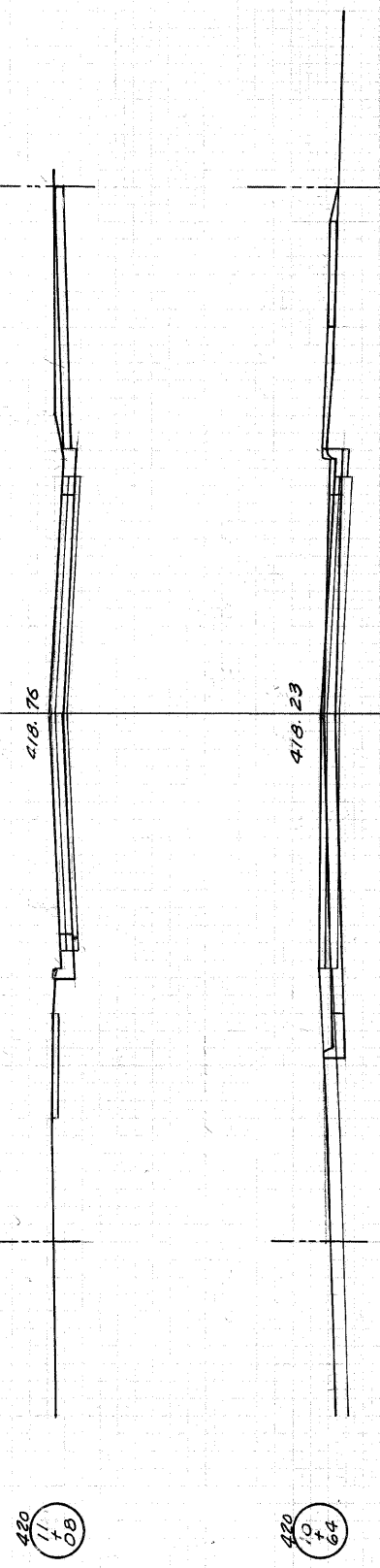
PROJECT: ROADWAY
 DRAWN BY: [Name]
 CHECKED BY: [Name]
 DATE: [Date]

CITY	FAIRFIELD	TOTAL SHEETS	SHEET NO.
SECTION	06-00045-00-BR	15	6
STA.	TO STA.		



PROFILE WASHINGTON STREET

50' 40' 30' 20' 10' 0' 10' 20' 30' 40' 50'



CROSS SECTIONS WASHINGTON ST.

C=0
F=14

C=0
F=34

C=0
F=28

C=1
F=34

C=2
F=15

420
1
1
08

420
1
0
64

420
4
4
72

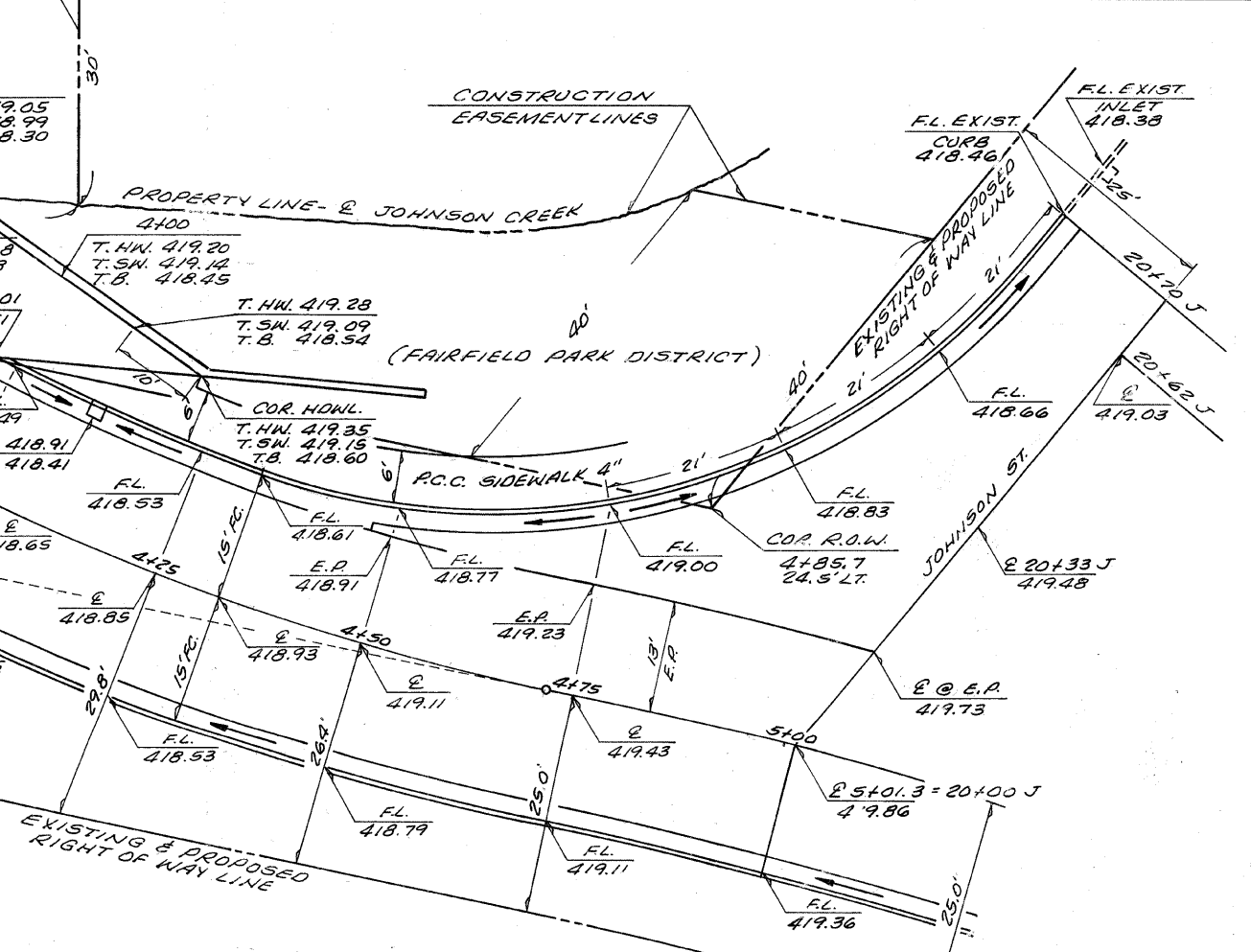
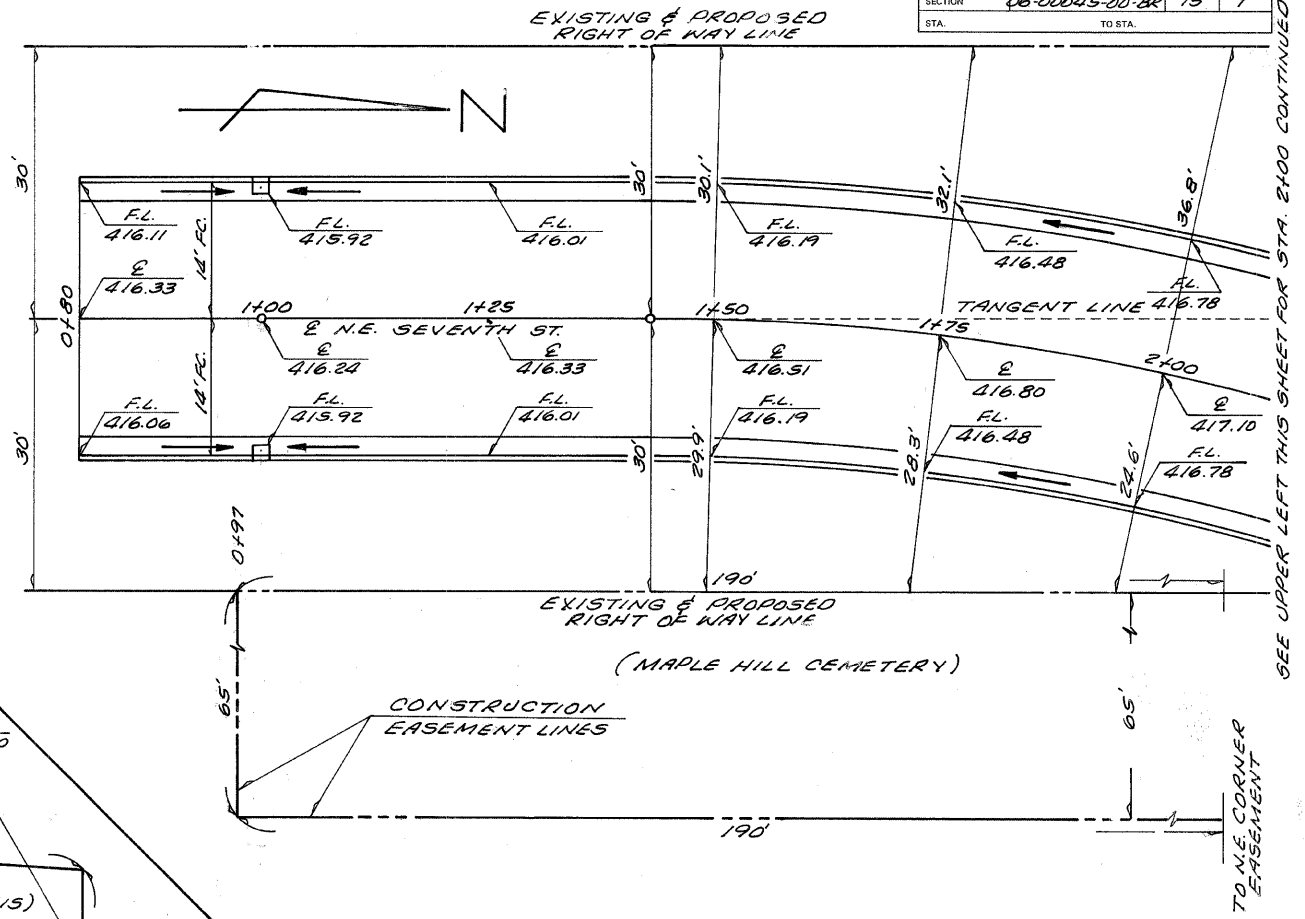
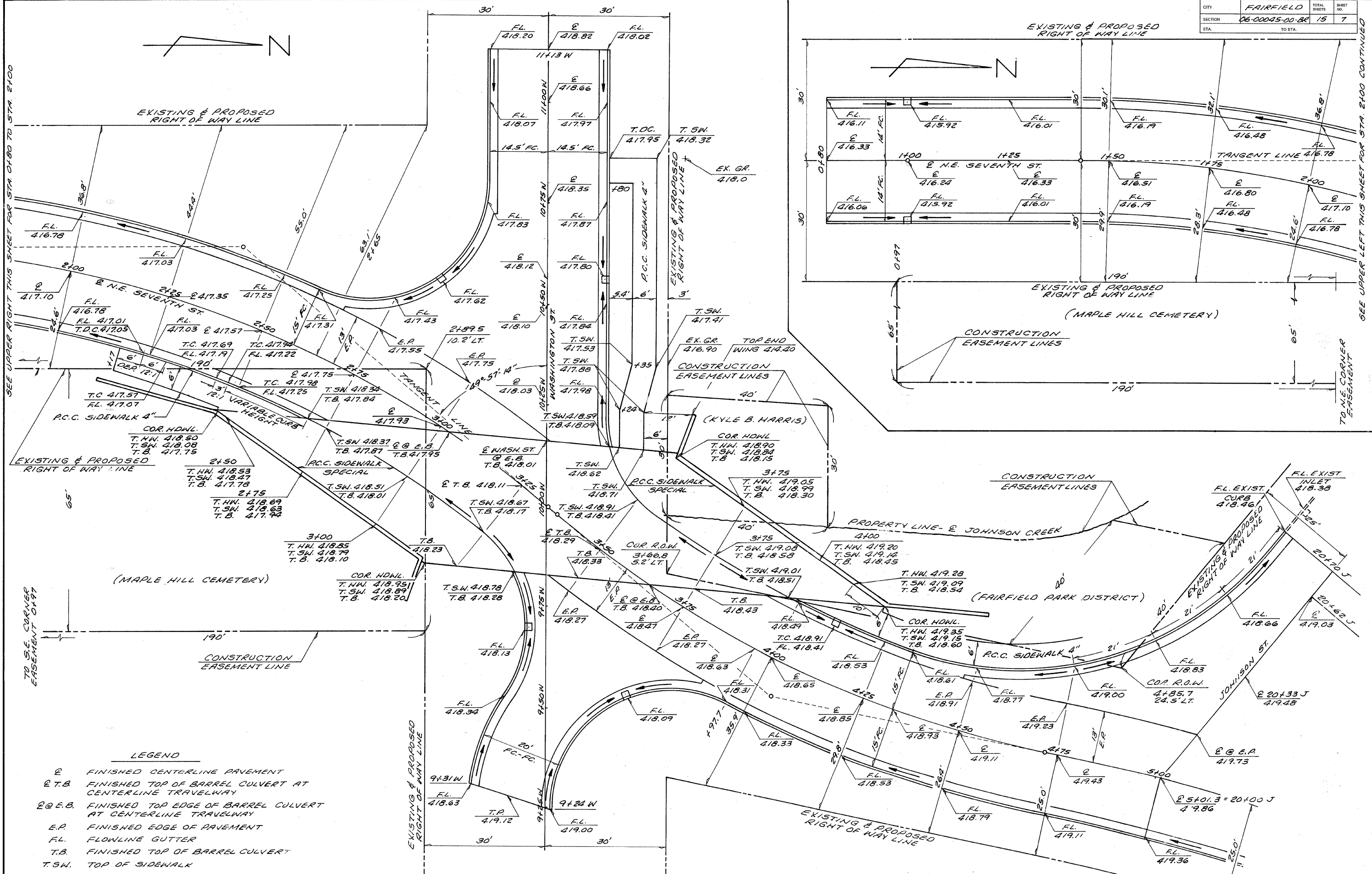
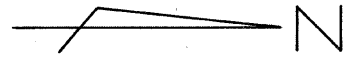
420
4
1
50

420
4
1
25

420
4
1
0

420
3
1
75

50' 40' 30' 20' 10' 0' 10' 20' 30' 40' 50'



SEE UPPER RIGHT THIS SHEET FOR STA. 0180 TO STA. 2100

SEE UPPER LEFT THIS SHEET FOR STA. 2100 CONTINUED

TO S.E. CORNER EASEMENT 0197

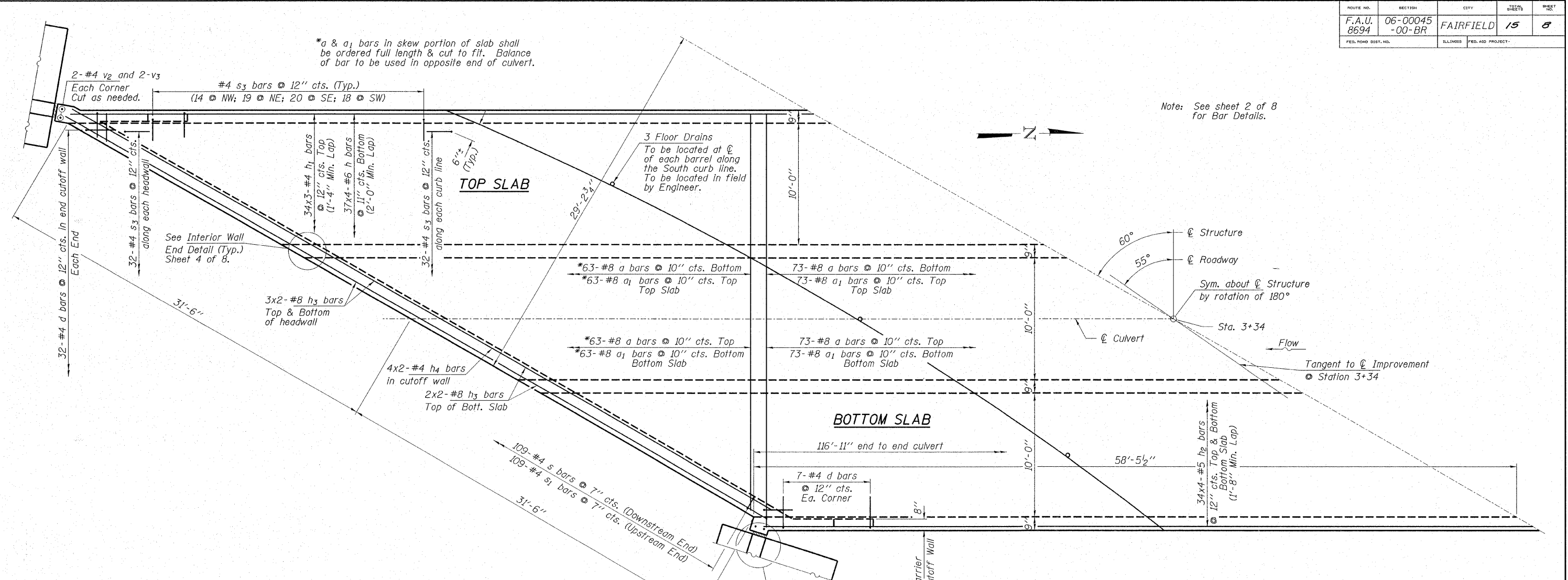
TO N.E. CORNER EASEMENT

LEGEND

- ⊕ FINISHED CENTERLINE PAVEMENT
- ⊕ T.B. FINISHED TOP OF BARREL CULVERT AT CENTERLINE TRAVELWAY
- ⊕ @ E.B. FINISHED TOP EDGE OF BARREL CULVERT AT CENTERLINE TRAVELWAY
- E.P. FINISHED EDGE OF PAVEMENT
- FL. FLOWLINE GUTTER
- T.B. FINISHED TOP OF BARREL CULVERT
- T.S.W. TOP OF SIDEWALK
- T.H.W. TOP OF HEADWALL CULVERT
- T.D.C. TOP OF DEPRESSED CURB
- E.K.G.R. EXISTING GROUND

DETAIL SHOWING: PROPOSED FINISHED ELEVATIONS
 EXISTING & PROPOSED RIGHT OF WAY LINES
 PROPOSED CONSTRUCTION EASEMENTS

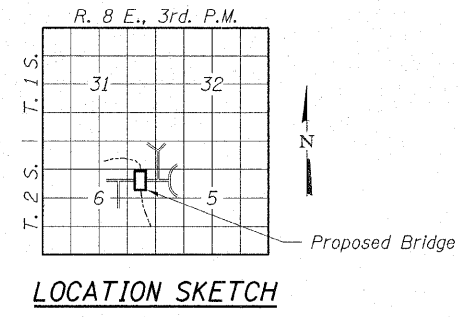
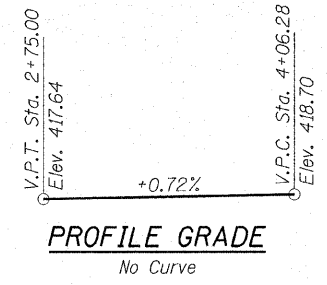
ROUTE NO. F.A.U. 8694	SECTION 06-00045 -00-BR	CITY FAIRFIELD	SHEET 15	SHEET 8
FED. ROAD DIST. NO.		ILLINOIS	FED. AID PROJECT	



Note: See sheet 2 of 8 for Bar Details.

GENERAL NOTES

Exposed edges shall be beveled 3/4".
 Reinforcement bars shall conform to the requirements of ASTM A706 Grade 60 (IL Modified.) See Special Provisions.
 Bars indicated thus 31x2-#5 etc. indicates 31 lines of bars with 2 lengths per line.
 All construction joints shall be bonded.
 Precast concrete box culverts will not be allowed.
 See sheets 8 of 8 for borings.
 Roadway surface (30' width) shall receive broomed finish.



JOHNSON CREEK
 BUILT 200. BY
 CITY OF FAIRFIELD
 WAYNE COUNTY
 SEC. 06-00045-00-BR
 STR. NO. 096-6011
 LOADING HS 20

NAME PLATE
 See Hwy. Std. 515001

SUMMARY OF QUANTITIES

Removal of Existing Structures	Each	1
Floor Drains	Each	3
Reinforcement Bars, Epoxy Coated	Pound	89,900
Aluminum Railing	Foot	198
Name Plates	Each	1
Concrete Box Culverts	Cu. Yd.	414.4

WATERWAY DATA

Drainage Area	195 Sq. Mi.
Existing Opening (30 yr)	198 Sq. Ft.
Req'd Opening (30 yr)	228 Sq. Ft.
Proposed Opening (30 yr)	228 Sq. Ft.
Design Discharge (30 yr)	996 C.F.S.
Created Head (30 yr)	0.4 Ft.
100 Yr. Discharge	1,331 C.F.S.
100 Yr. Created Head	0.5 Ft.

DESIGN HIGHWATER
 30 YR. H.W.E. = 416.3
 100 YR. H.W.E. = 417.2

LOADING HS 20-44

DESIGN STRESSES

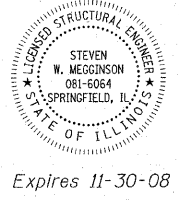
f'_c = 3,500 psi
 f_y = 60,000 psi (Reinf.)
 Max. Soil Pressure under footing = 2,400 p.s.f.

DESIGN SPECIFICATIONS

2002 AASHTO and all applicable interims

I certify that to the best of my knowledge, information and belief, this culvert design is structurally adequate for the design loading shown on the plans. The design is an economical one for the style of structure and complies with requirements of the current "AASHTO Standard Specifications for Highway Bridges".

Steven W. Megginson 3/20/07
 ILLINOIS STRUCTURAL NO. 081-6064



HAMPTON, LENZINI & RENWICK, INC.
 CIVIL & STRUCTURAL ENGINEERS
 LAND SURVEYORS

3085 STEVENSON DRIVE, SUITE 201
 SPRINGFIELD, ILLINOIS 62703
 (217) 546-3400

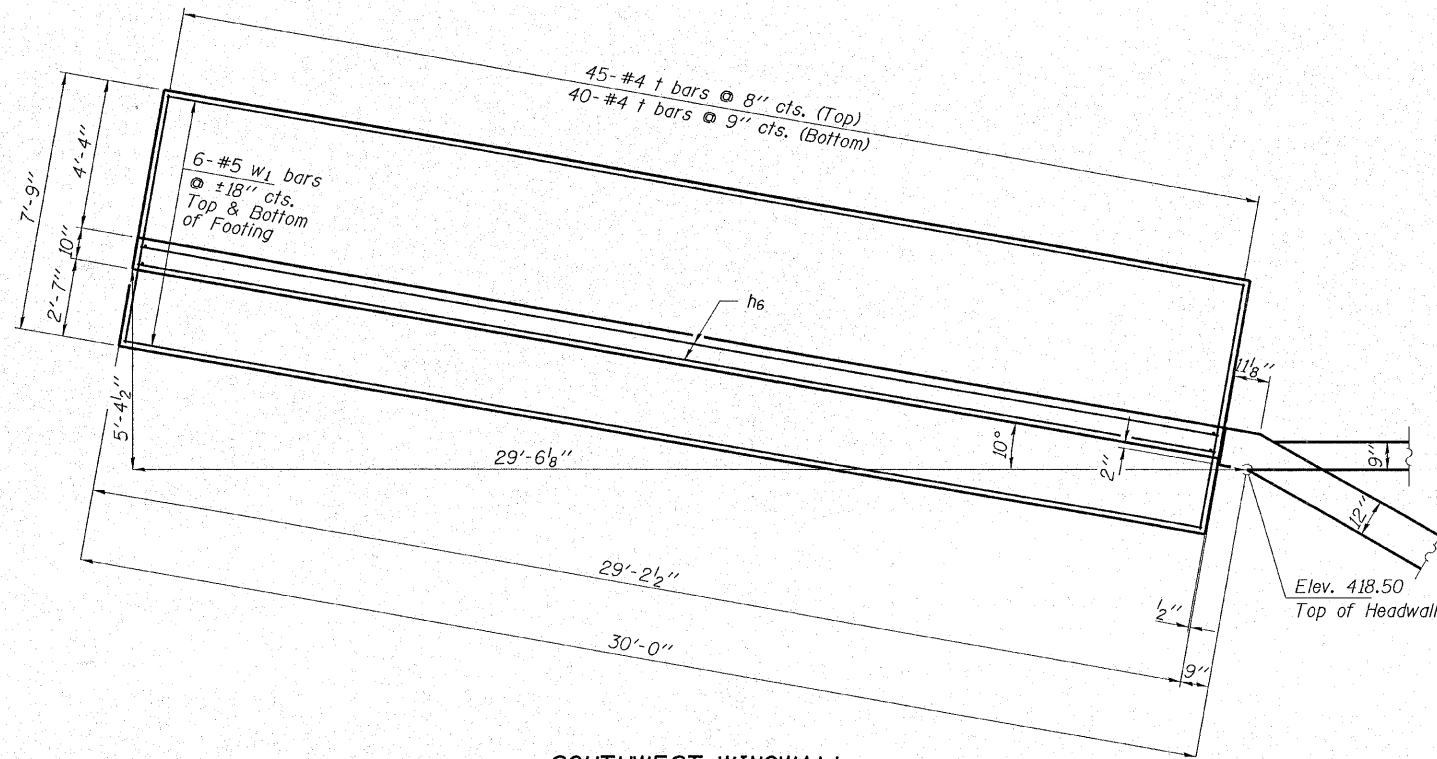
ILR

ELGIN • SPRINGFIELD

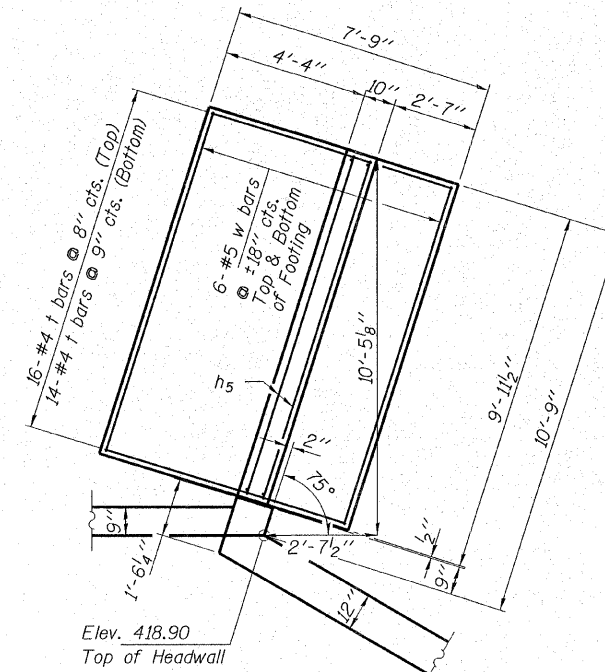
PROJECT NUMBER: 12-97-0008-1 DATE: 03/20/07
 DESIGNED: S.M.S. CHECKED: S.W.M. DRAWN: D.A.B.

CULVERT DETAILS
 SECTION 06-00045-00-BR
 CITY OF FAIRFIELD
 F.A.U. 8694 / WASHINGTON STREET
 STRUCTURE NO. 096-6011 / STATION 3+34

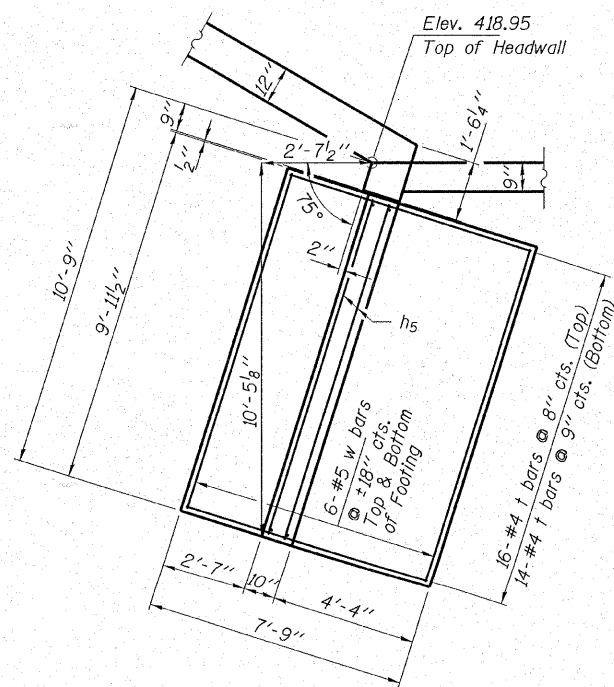
ROUTE NO. F.A.U. 8694	SECTION 06-00045 -00-BR	CITY FAIRFIELD	SHEETS 15	SHEET NO. 9
FED. ROAD DIST. NO.		ILLINOIS	FED. AID PROJECT-	



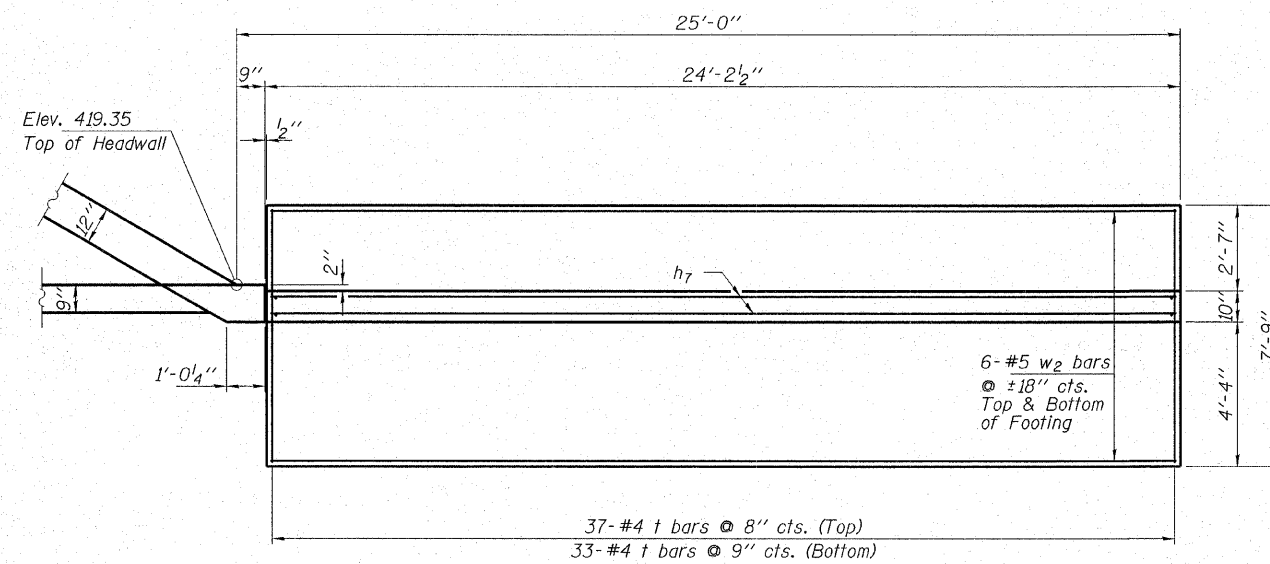
SOUTHWEST WINGWALL



NORTHWEST WINGWALL



SOUTHEAST WINGWALL



NORTHEAST WINGWALL

BILL OF MATERIAL

Bar	No.	Size	Length	Shape
a	272	#8	34'-6"	—
a1	272	#8	32'-8"	—
d	92	#4	5'-6"	└
h	292	#6	30'-8"	—
h1	102	#4	39'-9"	—
h2	272	#5	30'-4"	—
h3	32	#8	33'-6"	—
h4	16	#4	32'-2"	—
h5	42	#4	9'-7"	—
h6	21	#4	28'-10"	—
h7	21	#4	23'-10"	—
h8	48	#4	4'-8"	—
n	84	#6	6'-2"	┌
n1	80	#5	4'-3"	┌
s	109	#4	4'-9"	□
s1	109	#4	4'-7"	□
s2	36	#4	5'-1"	□
s3	199	#4	3'-7"	□
t	215	#4	7'-6"	—
v	488	#5	8'-6"	—
v1	488	#5	3'-5"	—
v2	8	#4	9'-3"	—
v3	8	#4	5'-8"	—
v4	31	#5	11'-5"	—
v5	4	#5	9'-5"	—
v6	4	#5	7'-9"	—
v7	12	#4	12'-9"	—
v8	37	#5	10'-8"	—
v9	4	#5	9'-0"	—
v10	4	#5	7'-4"	—
v11	12	#4	12'-4"	—
w	24	#5	9'-7"	—
w1	12	#5	28'-10"	—
w2	12	#5	23'-10"	—

MIN. BAR LAPS

- #4 - 1'-4" (Barrel)
- #5 - 1'-8" (Barrel)
- #6 - 2'-0" (Barrel)
- #6 - 2'-7" (Wingwalls)
- #8 - 3'-8" (Barrel)

All reinforcement bars shall be epoxy coated.
See Sheet 7 of 8 for Railing Inserts. Price included with Aluminum Railing.
See Sheet 4 of 8 for Corner Details.

HAMPTON, LENZINI & RENWICK, INC.
CIVIL & STRUCTURAL ENGINEERS
LAND SURVEYORS

HLR

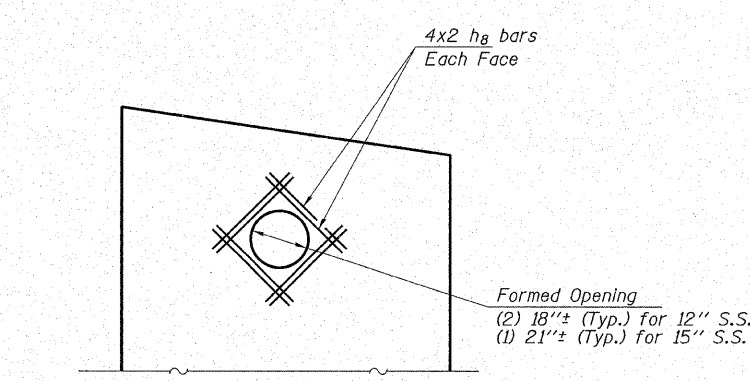
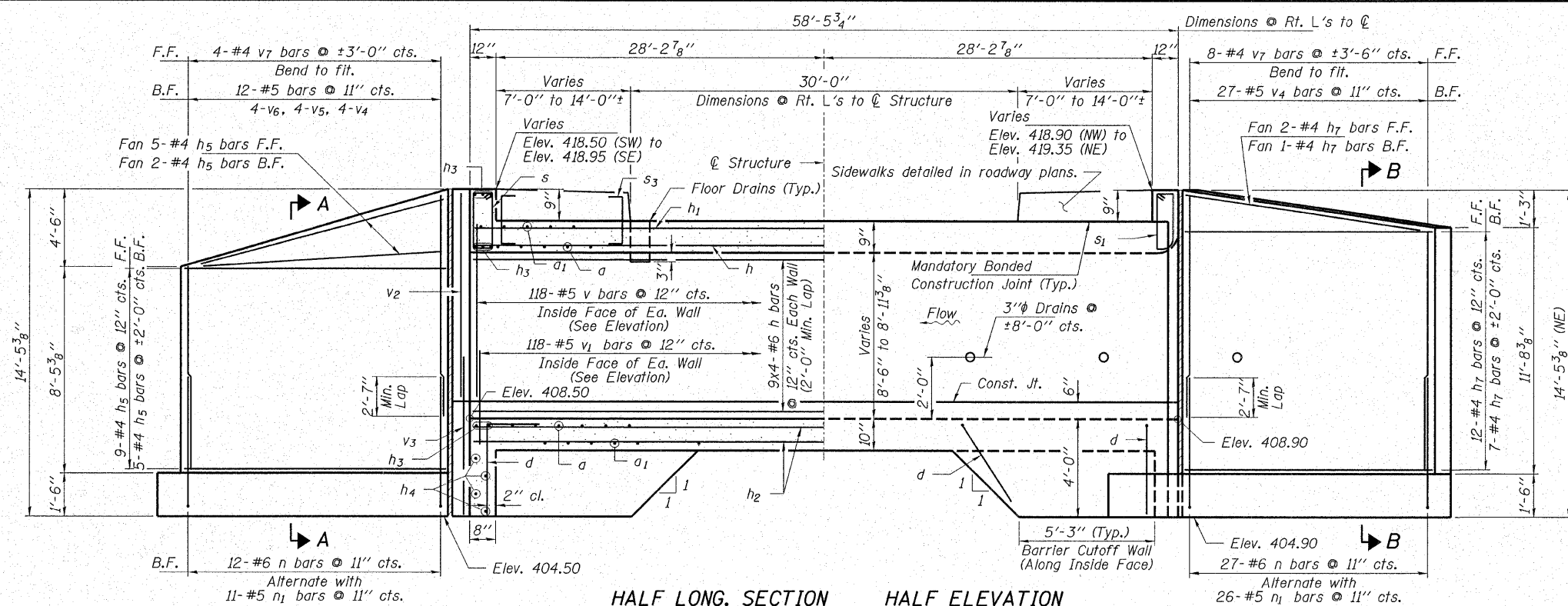
3085 STEVENSON DRIVE, SUITE 201
SPRINGFIELD, ILLINOIS 62703
(217) 546-3400

ELGIN • SPRINGFIELD

PROJECT NUMBER: 12-97-0008-1 DATE: 03/20/07
DESIGNED: S.M.S. CHECKED: S.W.M. DRAWN: D.A.B.

CULVERT DETAILS
SECTION 06-00045-00-BR
CITY OF FAIRFIELD
F.A.U. 8694 / WASHINGTON STREET
STRUCTURE NO. 096-6011 / STATION 3+34

ROUTE NO.	SECTION	CITY	TOTAL SHEETS	SHEET NO.
F.A.U. 8694	06-00045-00-BR	FAIRFIELD	16	10



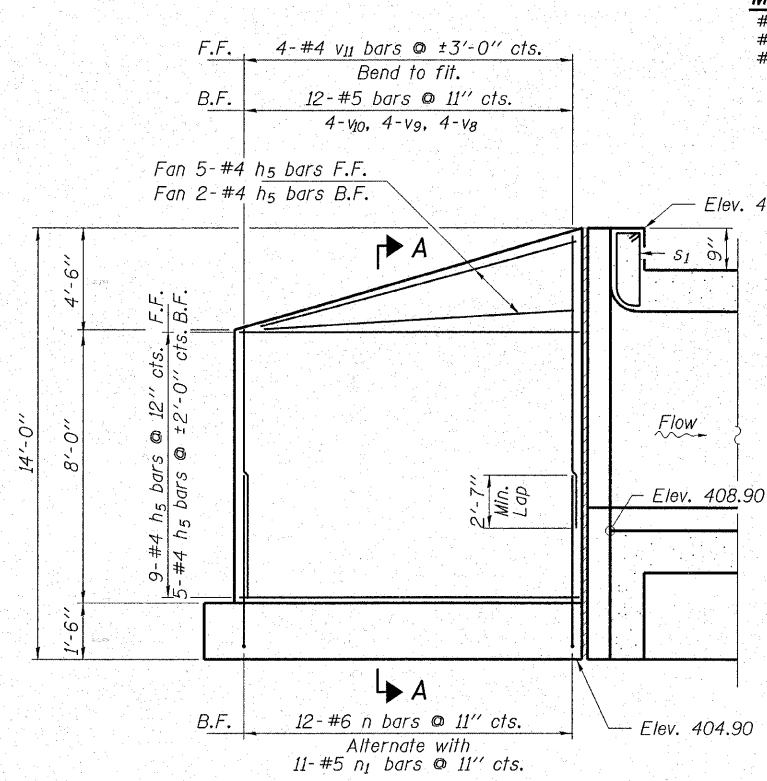
FORMED OPENING FOR STORM SEWERS
See Roadway Plan for elevations.

HALF LONG SECTION HALF ELEVATION
Showing reinforcement Showing outlines
Dimensions are at Right Angles to ϕ Structure.
(Looking West)

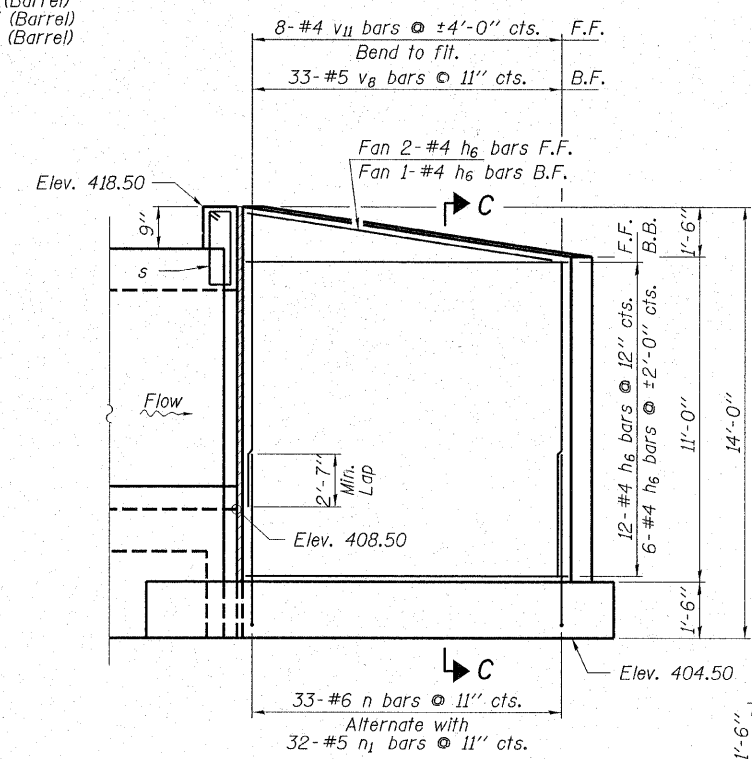
REINFORCEMENT - SOUTHEAST WINGWALL

REINFORCEMENT - NORTHEAST WINGWALL

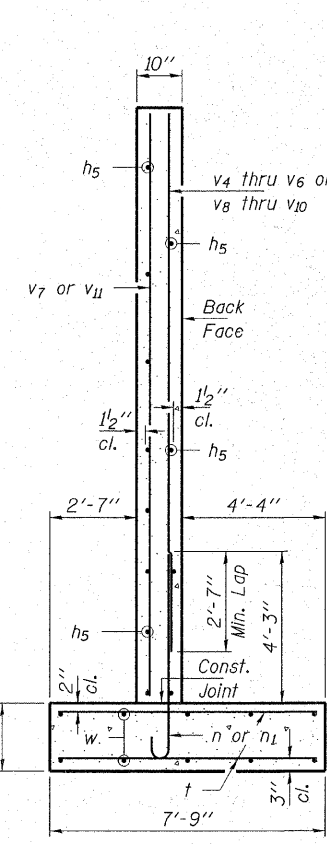
MIN. BAR LAP
#4 - 1'-4" (Barrel)
#6 - 2'-0" (Barrel)
#8 - 3'-8" (Barrel)



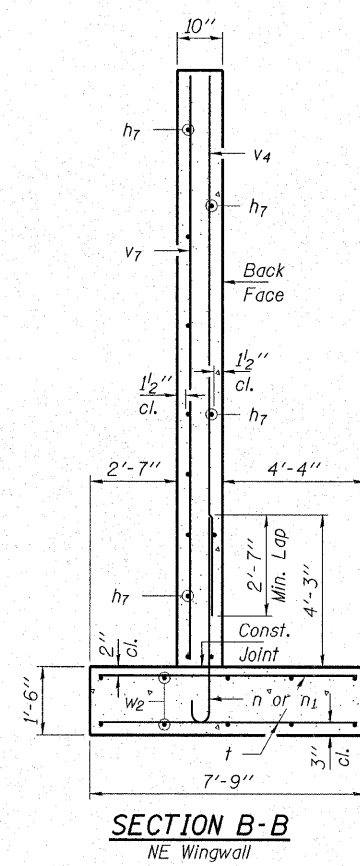
REINFORCEMENT - NORTHWEST WINGWALL
(Looking East)



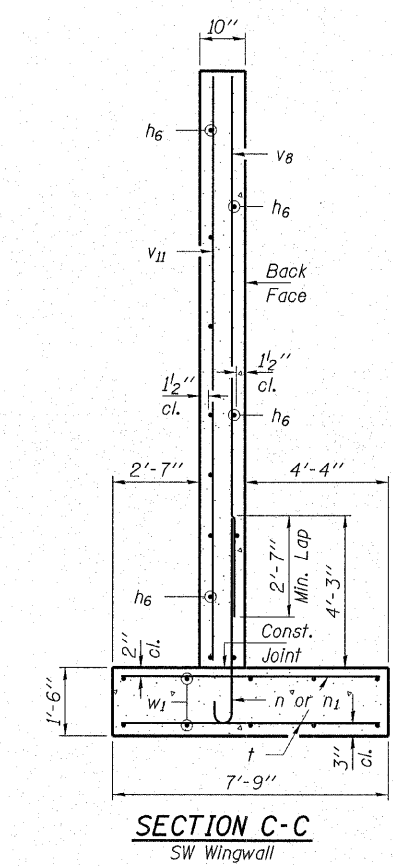
REINFORCEMENT - SOUTHWEST WINGWALL



SECTION A-A
SE & NW Wingwall



SECTION B-B
NE Wingwall



SECTION C-C
SW Wingwall

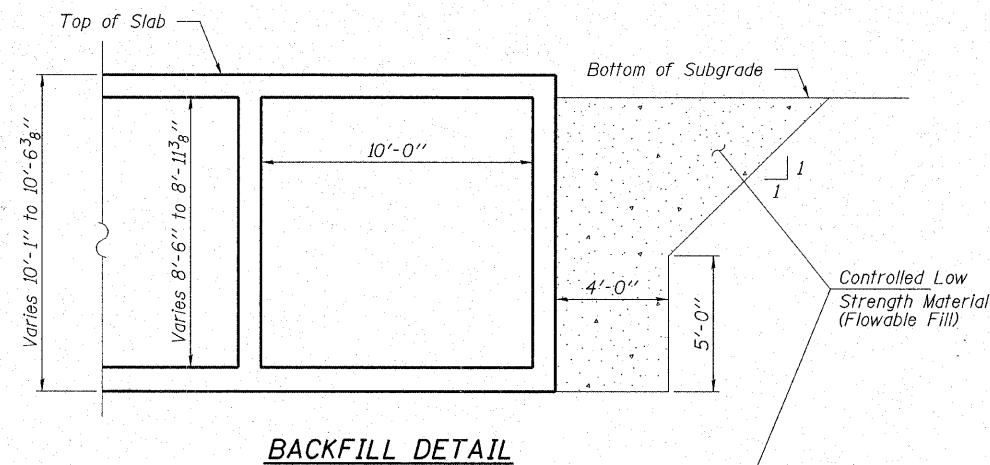
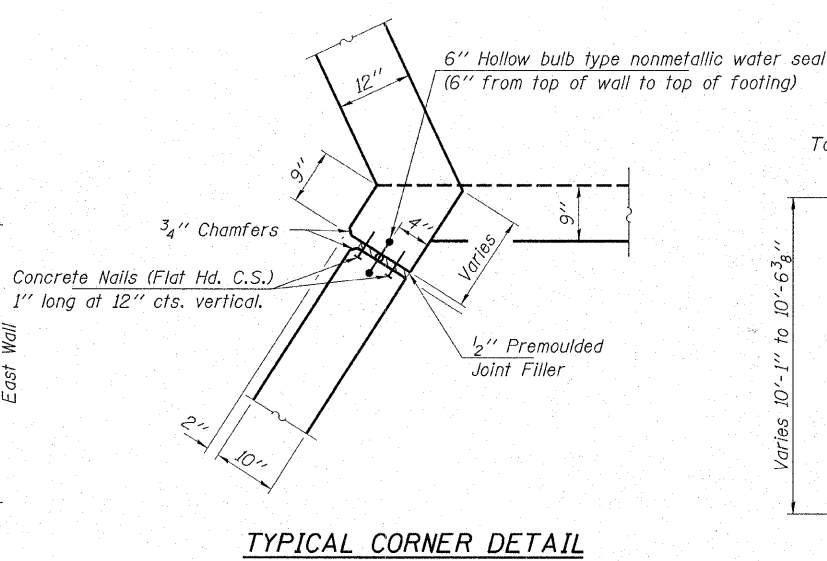
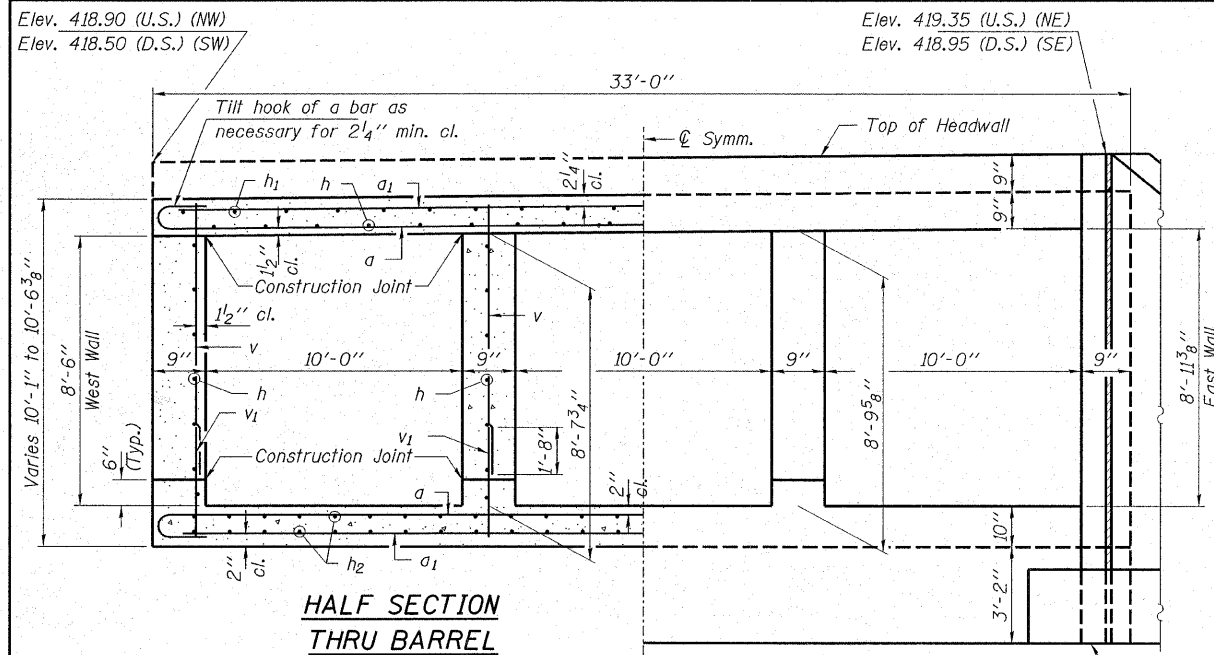
HAMPTON, LENZINI & RENWICK, INC.
CIVIL & STRUCTURAL ENGINEERS
LAND SURVEYORS
3085 STEVENSON DRIVE, SUITE 201
SPRINGFIELD, ILLINOIS 62703
(217) 546-3400

ELGIN • SPRINGFIELD

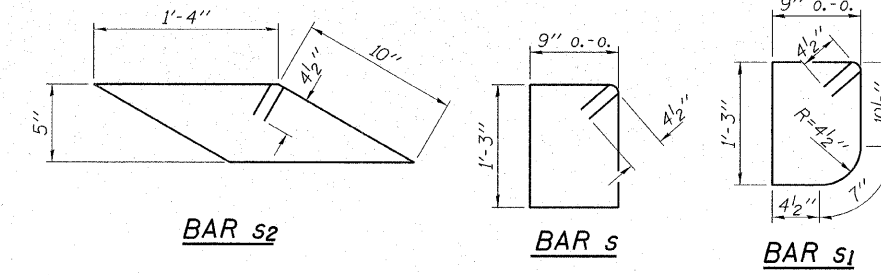
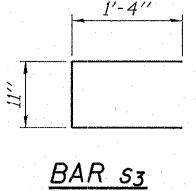
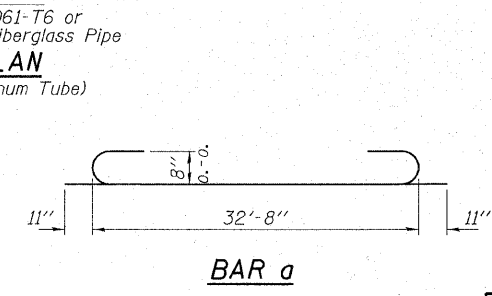
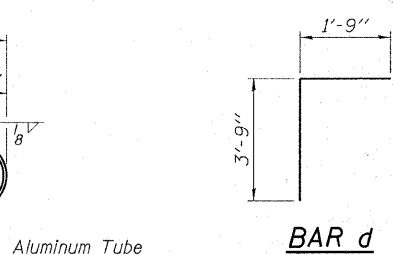
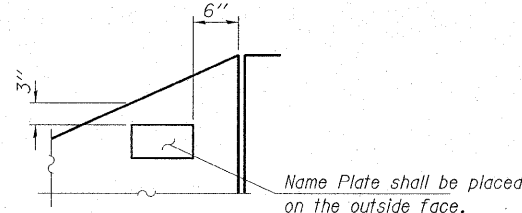
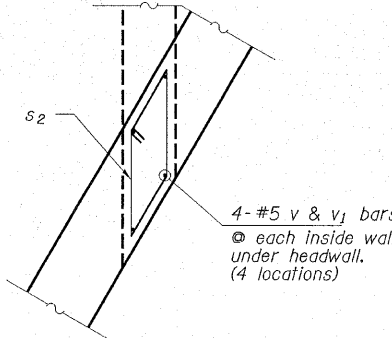
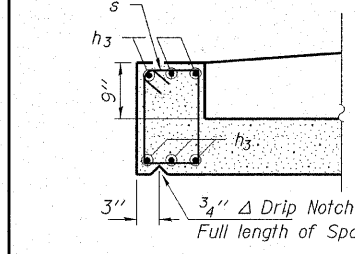
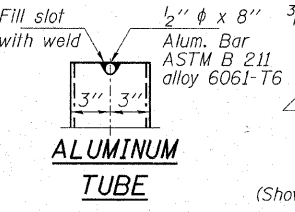
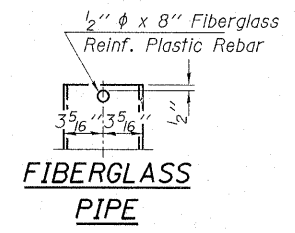
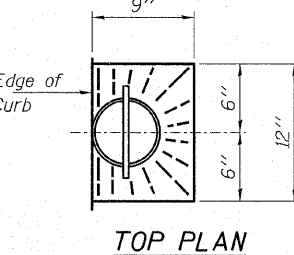
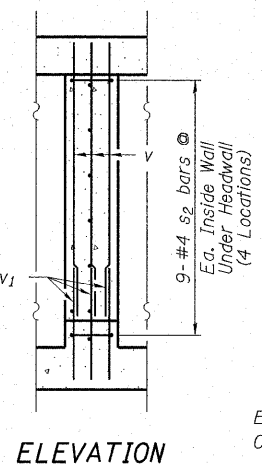
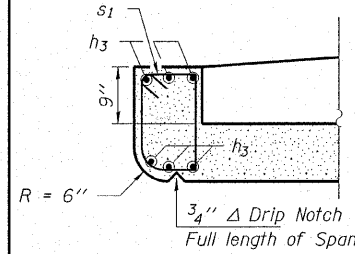
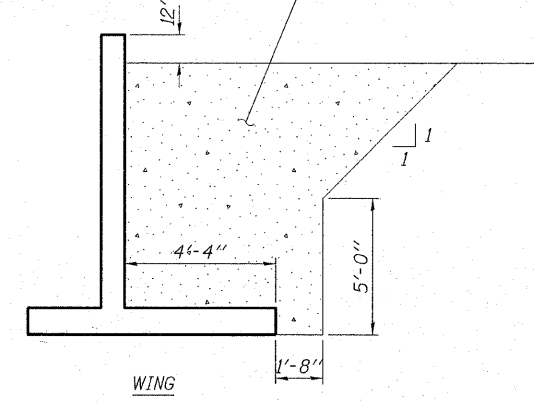
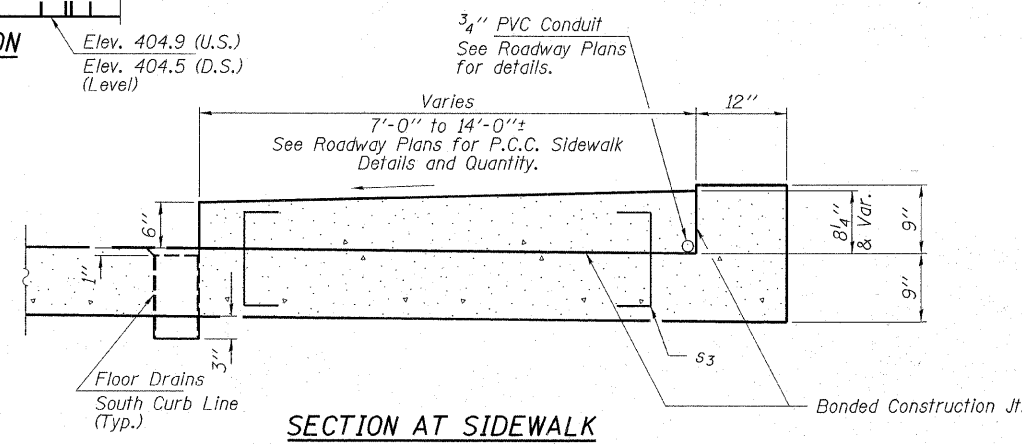
PROJECT NUMBER: 12-97-0008-1 DATE: 03/20/07
DESIGNED: S.M.S. CHECKED: S.W.M. DRAWN: D.A.B.

CULVERT DETAILS
SECTION 06-00045-00-BR
CITY OF FAIRFIELD
F.A.U. 8694 / WASHINGTON STREET
STRUCTURE NO. 096-6011 / STATION 3+34

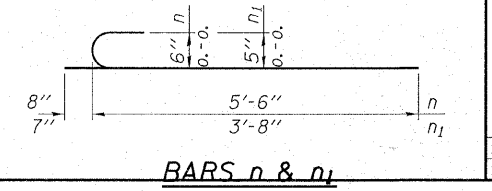
ROUTE NO.	SECTION	CITY	TOTAL SHEETS	SHEET NO.
F.A.U. 8694	06-00045-00-BR	FAIRFIELD	15	11
FED. ROAD DIST. NO.		ILLINOIS	FED. AID PROJECT	



ELEVATION
(Looking North)



INTERIOR WALL - END DETAIL
Typical Each End (4)



HAMPTON, LENZINI & RENWICK, INC.
 CIVIL & STRUCTURAL ENGINEERS
 LAND SURVEYORS

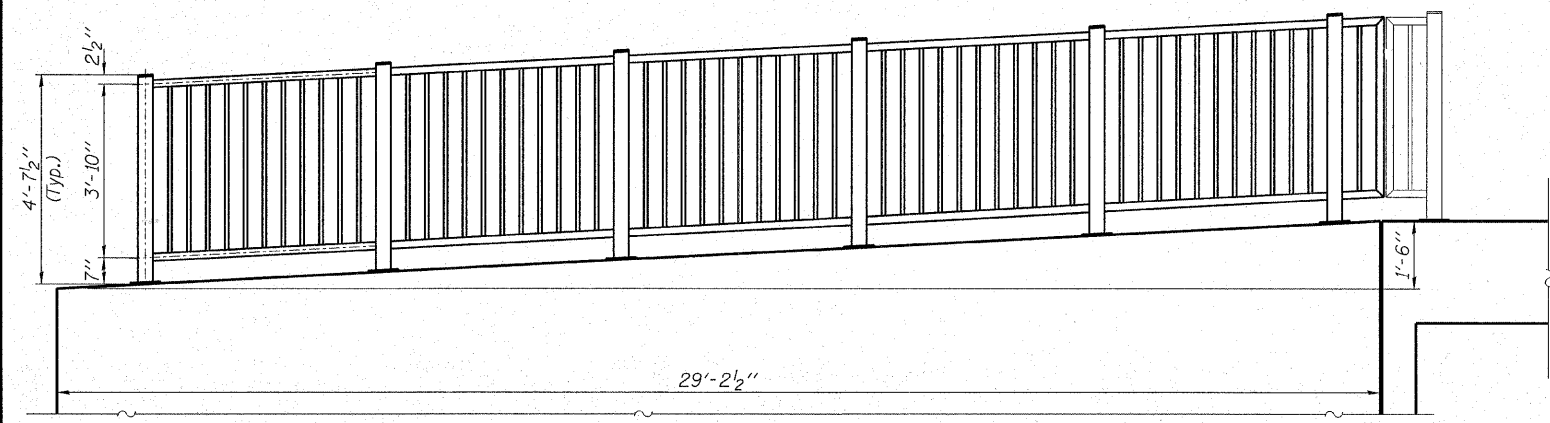
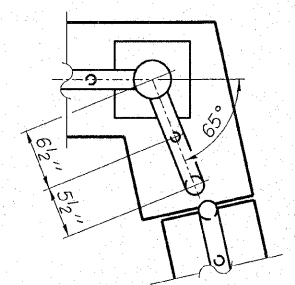
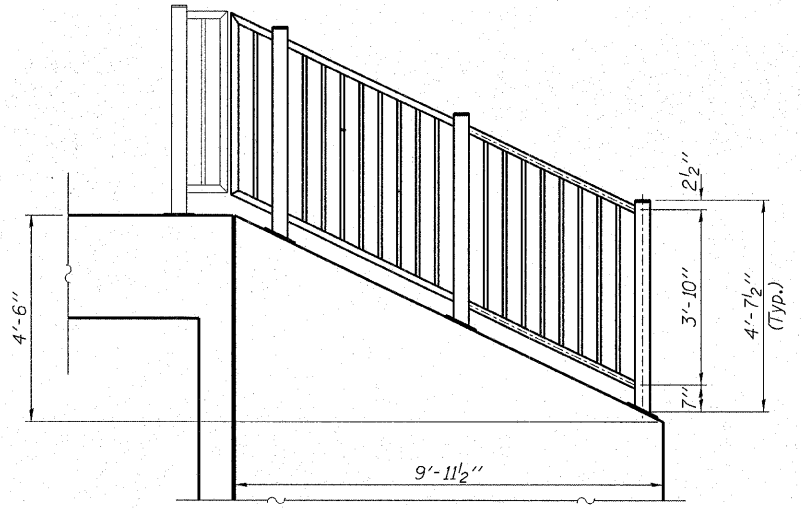
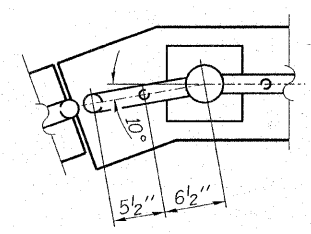
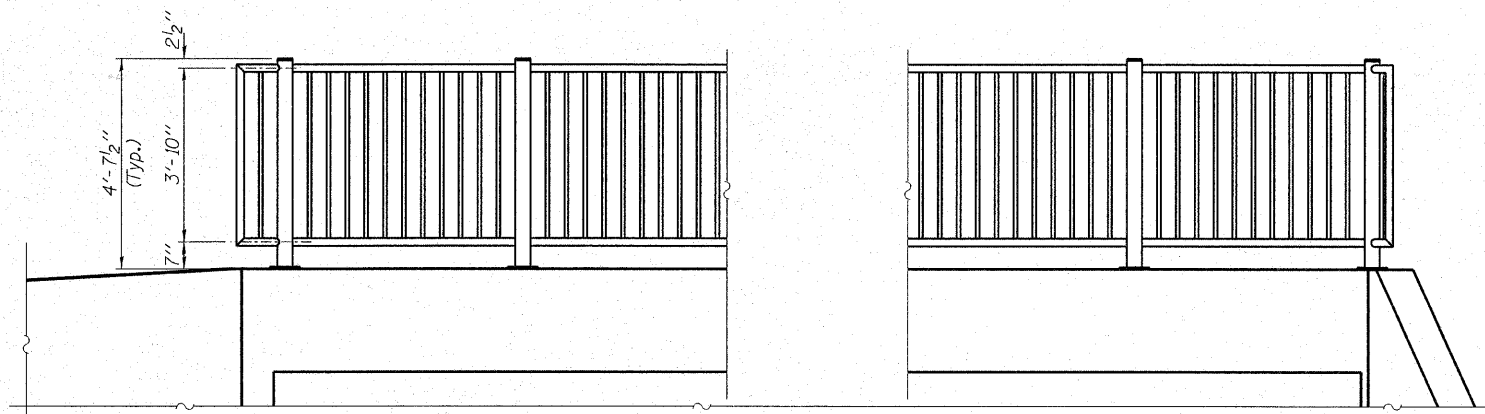
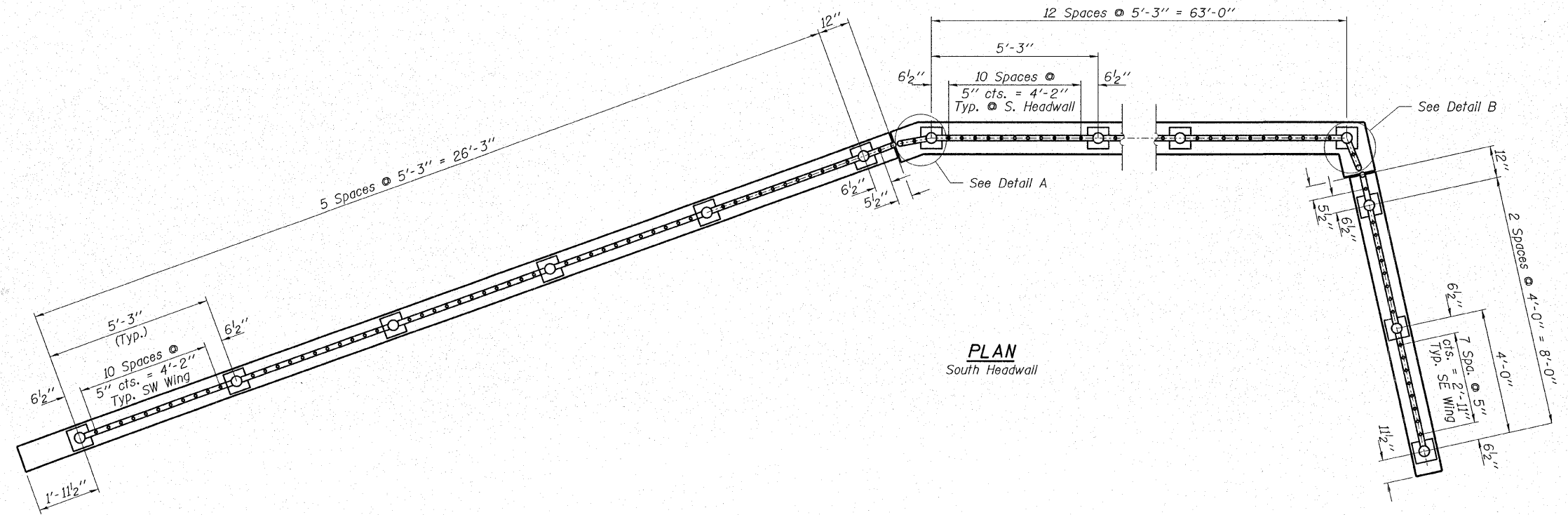
3085 STEVENSON DRIVE, SUITE 201
 SPRINGFIELD, ILLINOIS 62703
 (217) 546-3400

ELGIN • SPRINGFIELD

PROJECT NUMBER: 12-97-0008-1 DATE: 03/20/07
 DESIGNED: S.M.S. CHECKED: S.W.M. DRAWN: D.A.B.

CULVERT DETAILS
 SECTION 06-00045-00-BR
 CITY OF FAIRFIELD
 F.A.U. 8694 / WASHINGTON STREET
 STRUCTURE NO. 096-6011 / STATION 3+34

ROUTE NO. F.A.U. 8694	SECTION 06-00045 -00-BR	CITY FAIRFIELD	TOTAL SHEETS 15	SHEET NO. 12
FED. ROAD DIST. NO.		ILLINOIS	FED. AID PROJECT	



BILL OF MATERIAL

Item	Unit	Quantity
Aluminum Railing	Foot	198

Note: All wingwall and headwall elevations shall be field verified before fabrication.

HAMPTON, LENZINI & RENWICK, INC.
CIVIL & STRUCTURAL ENGINEERS
LAND SURVEYORS

HLR

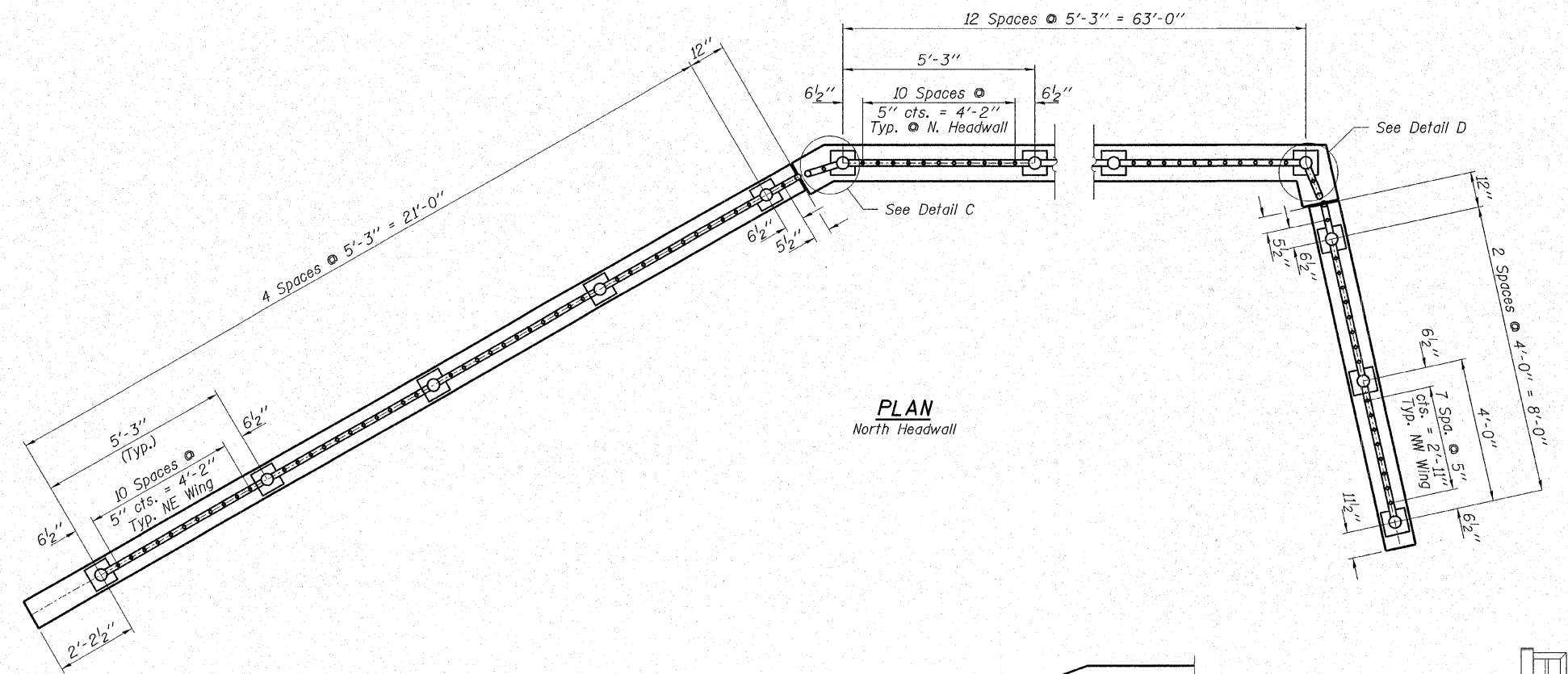
3085 STEVENSON DRIVE, SUITE 201
SPRINGFIELD, ILLINOIS 62703
(217) 548-3400

ELGIN • SPRINGFIELD

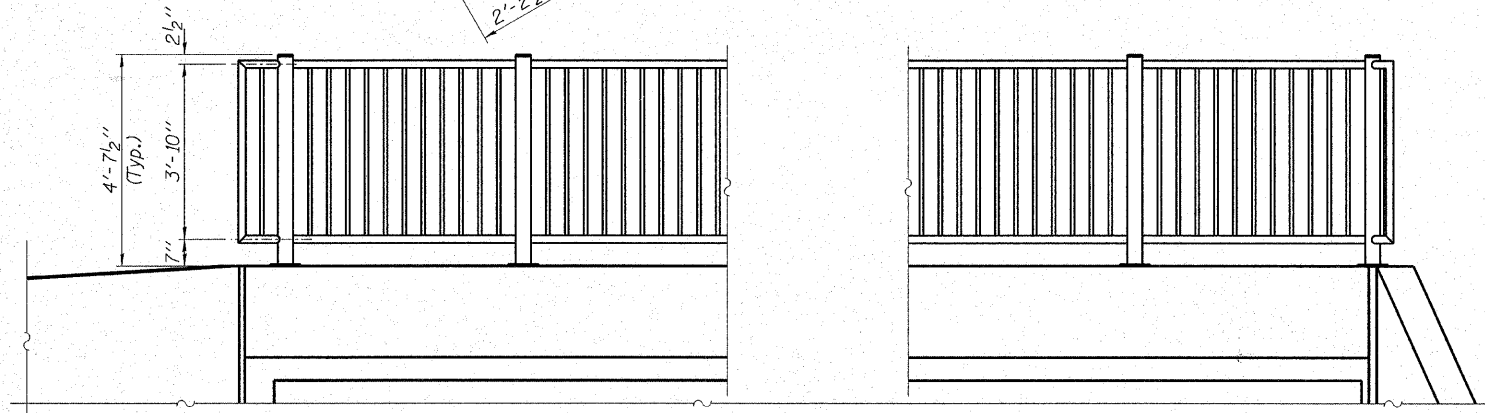
PROJECT NUMBER: 12-97-0008-1 DATE: 03/20/07
DESIGNED: S.M.S. CHECKED: S.W.M. DRAWN: D.A.B.

RAILING DETAILS
SECTION 06-00045-00-BR
CITY OF FAIRFIELD
F.A.U. 8694 / WASHINGTON STREET
STRUCTURE NO. 096-6011 / STATION 3+34

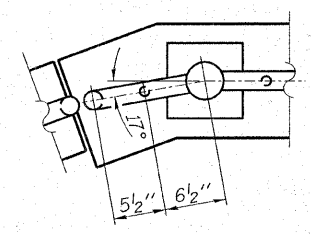
ROUTE NO. F.A.U. 8694	SECTION 06-00045 -00-BR	CITY FAIRFIELD	SHEET 15	SHEET 13
FED. ROAD DIST. NO.		ILLINOIS	FED. AID PROJECT	



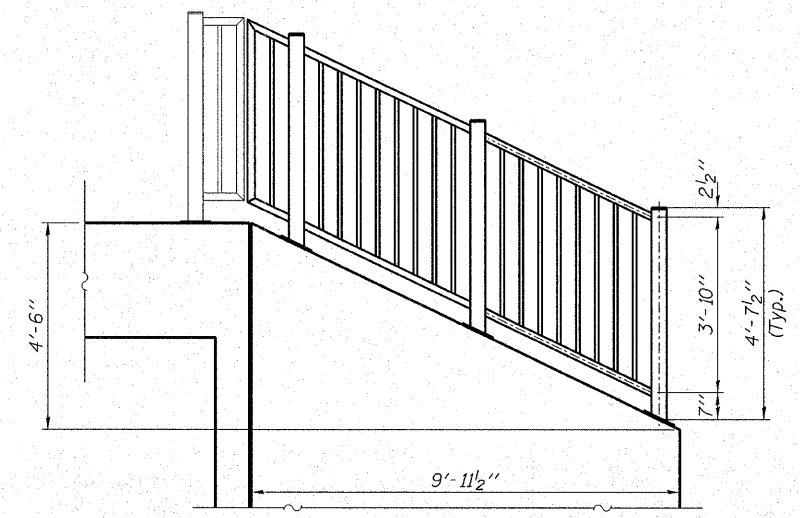
PLAN
North Headwall



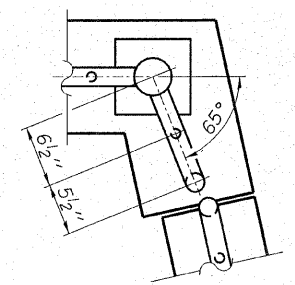
NORTH HEADWALL ELEVATION
(Looking South)



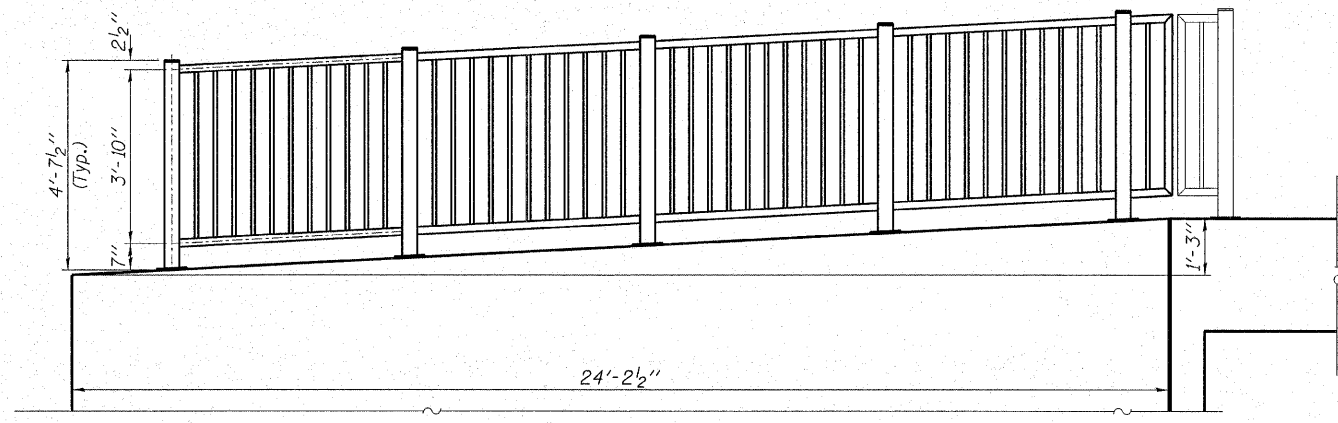
DETAIL C
(NE CORNER)



NORTHWEST WINGWALL



DETAIL D
(NW CORNER)



NORTHEAST WINGWALL

Note: All wingwall and headwall elevations shall be field verified before fabrication.

HAMPTON, LENZINI & RENWICK, INC.
CIVIL & STRUCTURAL ENGINEERS
LAND SURVEYORS

3085 STEVENSON DRIVE, SUITE 201
SPRINGFIELD, ILLINOIS 62703
(217) 546-3400

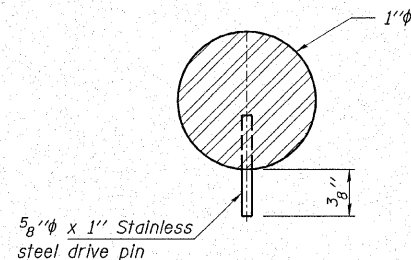
HLR

ELGIN • SPRINGFIELD

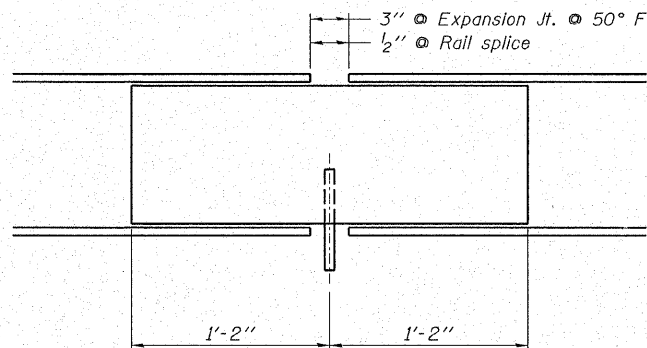
PROJECT NUMBER: 12-97-0008-1 DATE: 03/20/07
DESIGNED: S.M.S. CHECKED: S.W.M. DRAWN: D.A.B.

RAILING DETAILS
SECTION 06-00045-00-BR
CITY OF FAIRFIELD
F.A.U. 8694 / WASHINGTON STREET
STRUCTURE NO. 096-6011 / STATION 3+34

ROUTE NO.	SECTION	CITY	TOTAL SHEETS	SHEET NO.
F.A.U. 8694	06-00045-00-BR	FAIRFIELD	15	14
FED. ROAD DIST. NO.		ILLINOIS	FED. AID PROJECT	



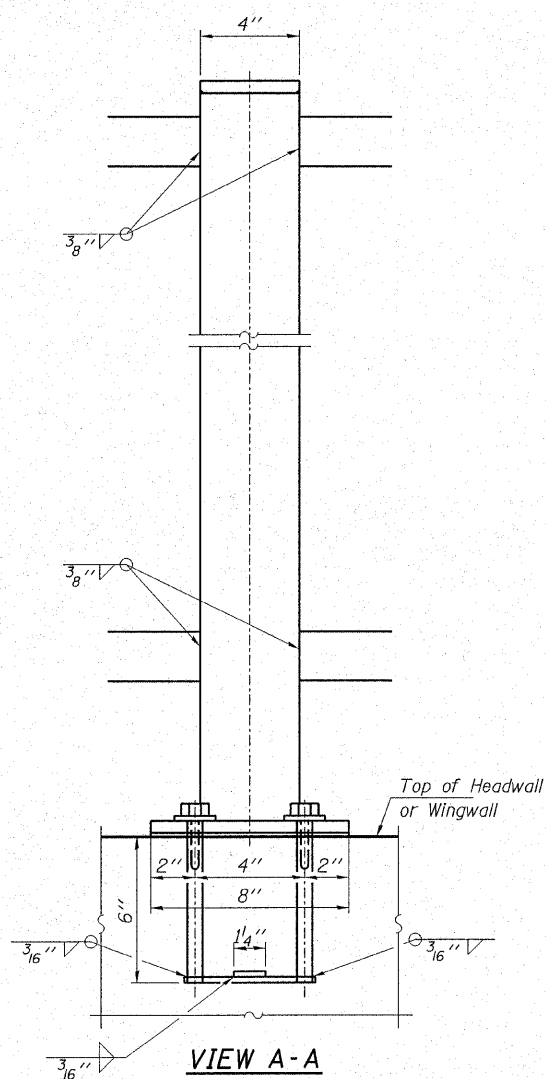
**TOP & BOTTOM RAIL
SPLICE BAR**



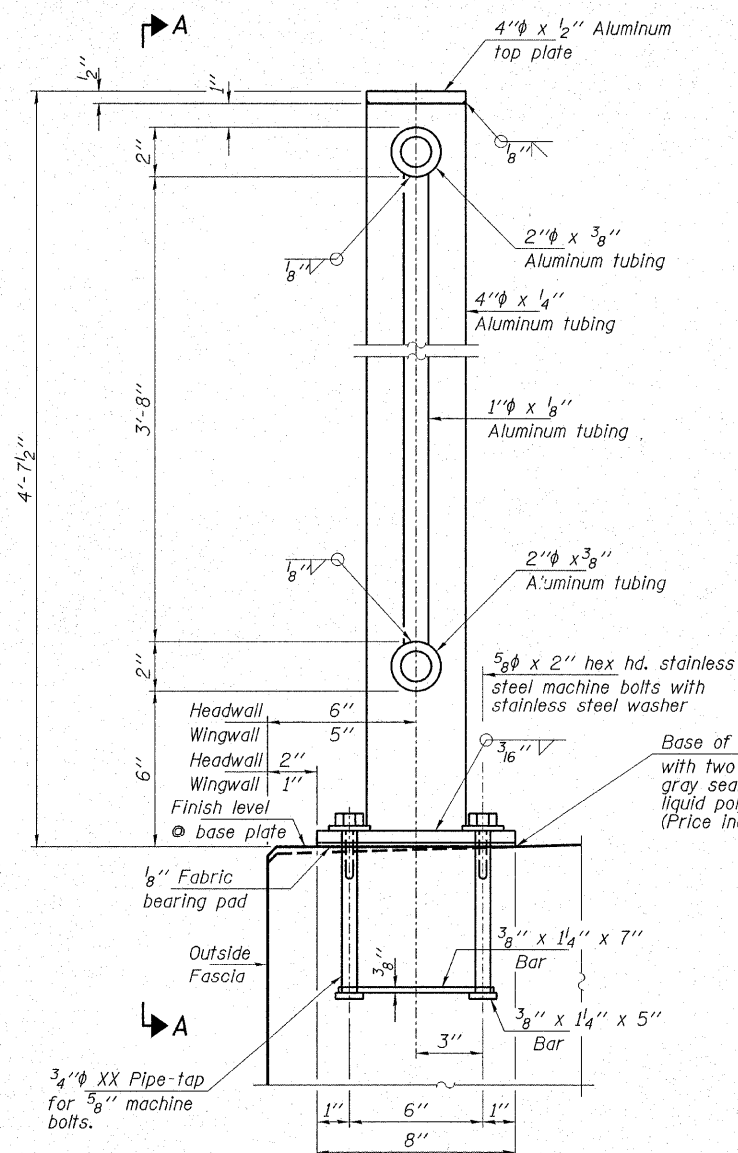
RAIL SPLICE

NOTES

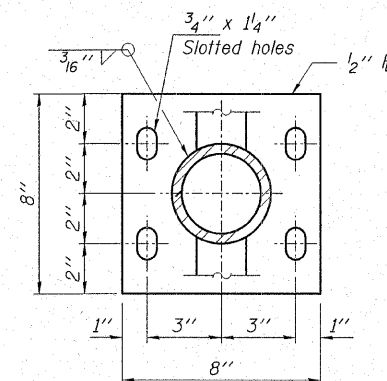
All Posts shall be vertical.
 All Aluminum Alloy Extruded Rail shall be supplied in modular lengths of 30 feet, except at the end of the culvert or over open wingwall joints where the rail shall be attached to a minimum of 2 posts.
 All joints in rail shall be spliced per detail.
 Provide 1-⁵/₈" and 2-¹/₆" Aluminum Shims for 25% of the Posts.
 Rail elements shall be parallel to Grade-high spots will be ground and low spots shimmed.
 Railing shall be in accordance with Section 509 of the Standard Specifications, except as noted, and will be paid for at the contract unit price per foot for ALUMINUM RAILING.
 Aluminum alloy rail shall conform to ASTM B221 alloy 6061-T6 or 6351-T5 with min. yield 35,000 psi, min. tensile 38,000 psi, and elongation of 10% in 2".
 Drilled and grouted anchor bolts may be substituted for the rail anchorage assembly. The anchor bolts shall be approved by the engineer.



VIEW A-A



SECTION AT RAIL POST



BASE PLATE

Note: All wingwall and headwall elevations shall be field verified before fabrication.

HAMPTON, LENZINI & RENWICK, INC.
 CIVIL & STRUCTURAL ENGINEERS
 LAND SURVEYORS

3085 STEVENSON DRIVE, SUITE 201
 SPRINGFIELD, ILLINOIS 62703
 (217) 546-3400

ELGIN • SPRINGFIELD

PROJECT NUMBER: 12-97-0008-1 DATE: 03/20/07
 DESIGNED: S.M.S. CHECKED: S.W.M. DRAWN: D.A.B.

RAILING DETAILS
 SECTION 06-00045-00-BR
 CITY OF FAIRFIELD
 F.A.U. 8694 / WASHINGTON STREET
 STRUCTURE NO. 096-6011 / STATION 3+34

ROUTE NO. F.A.U. 8694	SECTION 06-00045 -00-BR	CITY FAIRFIELD	TOTAL SHEETS 15	SHEET NO. 15
FED. ROAD DIST. NO.		ILLINOIS	FED. AID PROJECT	

FORM NO. B. D. 137 REV. 9-60

Sh. 1 of 1 Sh.

BRIDGE FOUNDATION BORING LOG

PROJECT WASHINGTON ST. BRIDGE POND CREEK BRANCH Date JANUARY 9, 1968
 ROUTE CH 5 (DEL. R.C. BOX CULVERT) Bored By J. R. ZEHNER
 SEC. 13CS (FAIRFIELD) STA. 2+21.5 Checked By J. J. KLAY
 COUNTY WAYNE

Boring No. 1
 Station 2+34
 Offset E

Surface Water El.	_____	Elevation	N	Qu t/s.f.	w (%)
Groundwater El. at Completion	<u>406.3</u>				
After ___ Hours	---				

Ground Surface	418.30				
EXISTING ROADWAY AND SUBBASE	416.3				
					-25
MEDIUM		12	0.7 S	18	
DAMP TO VERY DAMP, BROWN MOTTLED GREY, CLAY LOAM					
					-30
SOFT		7	0.3 B	21	
STIFF, BORDERING CLAY		11	1.8 S	20	
	408.3				-10
FREE WATER ENCOUNTERED AT ELEVATION 407.3					
		9	1.4 B&S	20	
STIFF, DAMP TO VERY DAMP, GREY MOTTLED BROWN, CLAY					
BORDERING CLAY LOAM		13	1.5 B	16	
					-15
	402.3				
BROWN MOTTLED GREY, HIGHLY WEATHERED		17		20	
MEDIUM TO DENSE, DAMP TO MOIST, GREY, WEATHERED, SHALE					
	398.8	43		13	
EXTENT OF EXPLORATION					-20
					-45

-Standard Penetration Test-
 blows per foot to drive 2"
 .D. Split Spoon Sampler 12" with
 10# hammer falling 30".

Qu - Unconfined Compressive
 Strength - t/sf

w - Water Content - percentage
 of oven dry weight - %

Type failure:
 B - Bulge Failure
 S - Shear Failure
 E - Estimated Value
 P - Penetrometer

BORING

HAMPTON, LENZINI & RENWICK, INC.
 CIVIL & STRUCTURAL ENGINEERS
 LAND SURVEYORS

HLR

3085 STEVENSON DRIVE, SUITE 201
 SPRINGFIELD, ILLINOIS 62703
 (217) 546-3400

ELGIN • SPRINGFIELD

PROJECT NUMBER: 12-97-0008-1 DATE: 03/20/07
 DESIGNED: S.M.S. CHECKED: S.W.M. DRAWN: D.A.B.

BORING LOG
 SECTION 06-00045-00-BR
 CITY OF FAIRFIELD
 F.A.U. 8694 / WASHINGTON STREET
 STRUCTURE NO. 096-6011 / STATION 3+34