PROJECT ENGINEER: PATTI LEBEAU (618–346–3179) SQUAD LEADER: CHERYL KEPLAR (618–346–3186)

MICROFILMED REEL NUMBER AWARDED ____

RESIDENT ENGINEER

AS BUILT CHANGES WERE MADE ON THE FOLLOWING SHEETS

STATE OF ILLINOIS

DEPARTMENT OF TRANSPORTATION

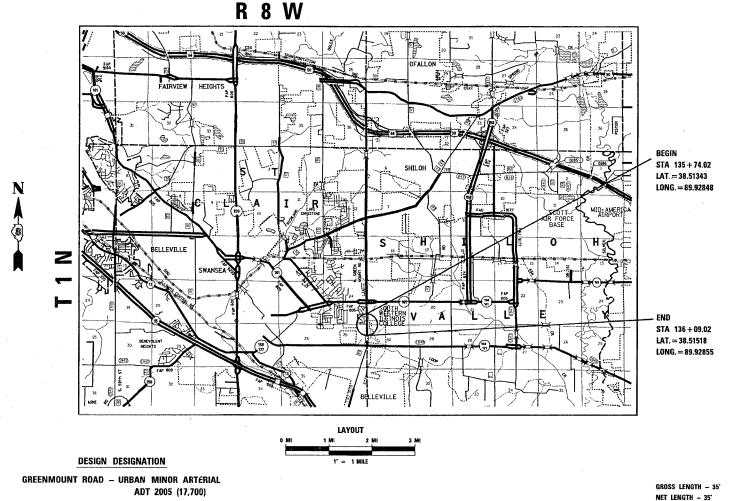
DIVISION OF HIGHWAYS

PROPOSED HIGHWAY PLANS

FAU ROUTE 9170 (GREENMOUNT ROAD) SECTION 124-21

PROJECT F-9170 ()
ST. CLAIR COUNTY

C-98-102-05



CONTRACT NO. 76938

J.U.L.ì.E.

1-800-892-0123

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

JOINT UTILITY LOCATION INFORMATION FOR EXCAVATION

ST. CLAIR COUNTY SECTION 1:

INDEX OF SHEETS

SUMMARY OF QUANTITIES ALIGNMENT TIES PLAN SHEET

PRECAST BOX CULVERT DETAILS

TYPICAL SECTION, GENERAL NOTES, COMMITMENTS AND HIGHWAY STANDARDS

STAGE CONSTRUCTION AND TRAFFIC CONTROL

FAU ROUTE 9170 (GREENMOUNT ROAD)

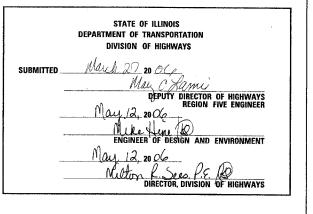
SII = 4 5%

MU = 1.6%

| CONTRACT NO. 76938 | COUNTY | TOTAL | SHEET | SHEET | NO. 19170 | 124-21 | ST. CLAIR | 10 | 1

D-98-081-05





PRINTED BY THE AUTHORITY
OF THE STATE OF ILLINOIS

GENERAL NOTES

- 1 SAW CUTTING ON ALL EDGES FOR REMOVAL ITEMS SHALL BE INCLUDED IN THE COST OF THE REMOVAL ITEM AS INDICATED AND IN ACCORDANCE WITH SECTION 440 OF THE STANDARD SPECIFICATIONS.
- 2 IF ANY SECTION OR SUB-SECTION MONUMENTS ARE ENCOUNTERED, THE ENGINEER SHALL BE NOTIFIED BEFORE SUCH MONUMENTS ARE REMOYED OR RESURFACED OVER. THE CONTRACTOR SHALL PROTECT AND CAREFULLY PRESERVE ALL PROPERTY MARKERS AND MONUMENTS UNTIL THE OWNER, AN AUTHORIZED SURVEYOR, OR AGENT HAS WITNESSED OR OTHERWISE REFERENCED THEIR LOCATION.
- 3 MIXTURES FOR JOINTS, CRACKS, AND FLANGWAYS SHALL BE PAID FOR ACCORDING TO ARTICLE 109.04 OF THE STANDARD SPECIFICATIONS.
- 4 THE THICKNESS OF THE BITUMINOUS MIXTURE SHOWN ON THE PLANS IS THE NOMINAL THICKNESS, DEVIATIONS FROM THE NOMINAL THICKNESS WILL BE PERMITTED WHEN SUCH DEVIATIONS OCCUR DUE TO IRREGULARITIES IN THE EXISTING SURFACE OR BASE ON WHICH THE BITUMINOUS MIXTURE IS PLACED.
- 5 ILLINOIS STATE LAW REQUIRES A 48-HOUR NOTICE BE GIVEN TO ALL UTILITIES BEFORE DIGGING. FIELD MARKING OF FACILITIES MAY BE OBTAINED BY CONTACTING JULLILE, OR FOR NON-MEMBERS, THE UTILITY COMPANY DIRECTLY. AGENCIES KNOWN TO HAVE FACILITIES WITHIN THE PROJECT AREA ARE AS FOLLOWS:

*AMEREN IP
*CHARTER COMMUNICATION, INC.
*ILLINOIS AMERICAN WATER CO.
*MCLEOD USA TELECOMMUNICATIONS, INC.
*SBC

MEMBERS OF J.U.L.I.E. (800)-892-0123 ARE INDICATED BY *. NON J.U.L.I.E. MEMBERS MUST BE NOTIFIED INDIVIDUALLY.

- 6 ALL SHORT TERM PAYEMENT MARKINGS WILL BE PLACED IN SUCH A MANNER SO AS NOT TO INTERFERE WITH THE PLACEMENT OF PERMANENT PAYEMENT MARKINGS.
- 7 HIGH EARLY STRENGTH CONCRETE MIX SHALL BE USED FOR ALL PCC PATCHING.
- 8 THE CONTRACTOR SHALL VERIFY ALL DIMENSIONS AND CONDITIONS IN THE FIELD PRIOR TO CONSTRUCTION AND ORDERING OF MATERIALS.
- 9 THE EXISTING CONCRETE BARRICADES AND SAND BARREL IMPACT ATTENUATORS ARE THE PROPERTY OF THE DEPARTMENT AND SHALL BE DELIVERED BY THE CONTRACTOR TO THE SCOTT SALT DOME AT IL 158 AND US 50 IN ST. CLAIR COUNTY. THE DELIVERY SHALL BE COORDINATED WITH THE OPERATIONS FIELD ENGINEER JOE MONROE (618-346-3279), THE COST OF THIS WORK SHALL BE INCLUDED IN THE COST OF SAND MODULE IMPACT ATTENUATOR TO BE REMOVED AND CONCRETE BARRIER REMOVAL.
- 10 THE QUANTITY PROVIDED FOR CONTROLLED LOW STRENGTH MATERIAL SHALL BE USED TO FILL ANY VOIDS, TO THE SATISFACTION OF THE ENGINEER, DUE TO EROSION UNDER THE PAYEMENT AND PROPOSED CULVERT SUB-GRADE. THIS WORK SHALL BE PERFORMED AFTER THE REMOVAL OF THE EXISTING CULVERT AND PRIOR TO THE INSTALLATION OF THE PROPOSED PRECAST BOX CULVERT.
- I ALL EROSION CONTROL PRODUCTS FURNISHED SHALL BE SPECIFICALLY RECOMMENDED BY THE MANUFACTURE FOR THE USE SPECIFIES IN THE EROSION CONTROL PLAN. PRIOR TO THE APPROVAL AND USE OF THE PRODUCT, THE CONTRACTOR SHALL SUBMIT TO THE ENGINEER A NOTARIZED CERTIFICATE BY THE PRODUCER STATING THE INTENDED USE OF THE PRODUCT AND THAT THE PHYSICAL PROPERTIES REQUIRED FOR THIS APPLICATION ARE MET OR EXCEEDED. THE CONTRACTOR SHALL PROVIDE MANUFACTURES RECOMMENDED INSTALLATION PROCEDURES TO FACILITATE THE ENGINEER IN CONSTRUCTION INSPECTION.
- 12 STRAW BALES, HAY BALES, PERIMETER EROSION BARRIER, AND SILT FENCES WILL NOT BE PERMITTED FOR TEMPORARY OR PERMANENT DITCH CHECKS. DITCH CHECKS SHALL BE COMPOSED OF AGGREGATE, SILT PANELS, ROLLED EXCELSIOR, URETHAME FOAM/CEOTEXTILE/SILT WEDGES, EARTH MEDIAN AND/OR OTHER MATERIAL APPROVED BY THE ENGINEER AND SEDIMENT CONTROL COORDINATOR.

COMMITMENTS

NONE

PERTINENT INFORMATION

FALL SESSION OF CLASSES START AUGUST 19, 2006 AT SWIC.

LIST OF STANDARDS

280001-02 420001-06 420701-01 442101-05 482006-01 701001-01 701006-02 701011-01 701201-02 701206-01	701301- 701306- 701311- 701326- 702001- 780001- 000001- 001001- 001001-

FROSION CONTROL SCHEDULE

						01011 00111	TOL DOTTLEBULL			
STA	†o	Sta	Offset	Length (ft)	Avg. Width (ft)	SEEDING CL 2A (QC)	NITROGEN FERTILIZER NUTRIENT (Ib)	PHOSPHORUS FERTILIZER NUTRIENT (Ib)	POTASSIUM FERTILIZER NUTRIENT (Ib)	MULCH METHOD 2 (ac)
135+10	to	135+92	RT	82	36	0.07	6.3	6.3	6.3	0.07
135+92	to	136+60	RT	68	36	0.06	5.4	5.4	5.4	0.06
								1		
135+40	to	135+60	LT	20	35	0.02	1.8	1.8	1.8	0.02
135+60	to	136+60	LT	100	35	0.08	7.2	7.2	7.2	0.08
		TOTAL =				0.23	20,7	20.7	20.7	0.23

SUB-BASE GRANULAR MATERIAL, TYPE B

LOCA	TION	SUB-BASE GRANULAR MATERIAL, TYPE B
STA.	STA.	TONS
135+74	136+09	234

* FURNISHED EXCAVATION

LOCA	TION	FURNISHED EXCAVATION
STA.	STA.	CU YD
135+10	137+57	426

* EARTH EXCAVATION

	LOCATION		EARTH EXCAVATION
STA.	STA.	LT/RT	(CY YDS)
135+50.	136+65	RT	135

• EARTH EXCAVATION QUANTITY WAS NOT REDUCED FROM FURNISHED EXCAVATION. IT WAS DETERMINED IT WOULD BE DIFFICULT TO UTILIZE EARTH EXCAVATION FOR EMBANKMENT. THEREFORE, THE QUANTITY WAS NOT REDUCED.

280001-02 420001-06 420701-01	701301-0 701306- 701311-0
442101-05	701326-
482006-01	702001-
701001-01	780001-
701006-02	781001-0
701011-01	000001-
701201-02	001001
701206-01	001006

GREENMOUNT ROAD VARIES VARIES 1' - 4.5' 1' - 4.5' 3/6"/1" 1/2"/1

EXISTING TYPICAL SECTION

STA. 135+74 TO STA. 136+09

GREENMOUNT ROAD VARIES VARIES 1' - 4.5' 1' - 4.5' MATCH EXISTING MATCH EXISTING MATCH EXISTING 6

PROPOSED TYPICAL SECTION

STA. 135+74 TO STA. 136+09

LEGEND

① EXISTING 8" PCC PAVEMENT EXISTING PCC WIDENING 8"

EXISTING 8" BIT. SHOULDER PROPOSED CLASS B PATCH TYPE IV - 8" (HIGH-EARLY-STRENGTH)

(5) PROPOSED BITUMINOUS SHOULDER - 8"

PROPOSED FURNISHED EXCAVATION
PROPOSED SUB-BASE GRANULAR MATERIAL, TYPE 8 (12" THICKNESS)

MIXTURE REQUIREMENT CHART

MIXTURE USE	SHOULDERS	TEMP. BITUMINOUS OVERLA
AC/PG	PG 58-22	PG 64-22
RAP % (MAX)	30%	15%
DESIGN AIR VOIDS	2.0% @ NDES=30	4.0% @ NDES=70
MIX COMPOSITION		
(GRADATION MIXTURE)		
FRICTION AGG	BAM	MIX C

ILLINOIS DEPARTMENT OF TRANSPORTATION TYPICAL SECTIONS, GENERAL NOTES. COMMITMENTS, AND HIGHWAY STANDARDS FAU ROUTE 9170

SECTION 124-2I ST. CLAIR COUNTY

CONTRACT NO. 76938

COUNTY TOTAL SHEET NO.

ST. CLAIR 10 2

TO STA.

FED. ROAD DIST. NO. ILLINOIS FED. AID PROJECT

SECTION

124-21

9170

3/13/2006 c:\projects\ 50.0000 '/ 1 DATE NAME SCALE ENCE ILLINOIS DEPARTMENT OF TRANSPORTATION

SUMMARY OF QUANTITIES

SUMMARY OF QUANTITIES			TOTAL	URBAN	STRUCTION TYPE	CODE
CODE NO	ITEM	UNIT	TOTAL QUANTITIES	100% STATE		
X0325427	CUT CONDIUIT IN TRENCH	EACH	2	2		
20200100	EARTH EXCAVATION	CU YD	135	135		
20400800	FURNISHED EXCAVATION	CU YD	426	426		
25000210	SEEDING, CLASS 2A	ACRE	0.23	0.23		
25000400	NITROGEN FERTILIZER NUTRIENT	POUND	20.7	20.7		
25000500	PHOSPHORUS FERTILIZER NUTRIENT	POUND	20.7	20.7		
25000600	POTASSIUM FERTILIZER NUTRIENT	POUND	20.7	20.7		
25100115	MULCH, METHOD 2	ACRE	0.23	0.23		
28000300	TEMPORARY DITCH CHECKS	EACH	9	9		
28000500	INLET AND PIPE PROTECTION	EACH	1	1		
28100107	STONE RIPRAP, CLASS A4	SQ YD	. 55	55		۵.
28200200	FILTER FABRIC.	SQ YD	55	55		
31101000	SUB-BASE GRANULAR MATERIAL, TYPE B	TON	234	234		
44001980	CONCRETE BARRIER REMOVAL	FOOT	125	125		
44004250	PAVED SHOULDER REMOVAL	SQ YD	175	175		
44200944	CLASS B PATCHES, TYPE IV, 8 INCH	SQ YD	105	105		
44201294	CLASS B PATCH-EXPANSION JOINT	FOOT	35	35		
44213100	PAVEMENT FABRIC	SQ YD	105	105		
44213200	SAW CUTS	FOOT	81	81		
48202600	BITUMINOUS SHOULDERS SUPERPAVE 8"	SQ YD	84	84		
50100100	REMOVAL OF EXISTING STRUCTURES	EACH	1	1		
50200100	STRUCTURE EXCAVATION	CU YD	276	276		
54010605	PRECAST CONCRETE BOX CULVERT 6' X 5'	FOOT	54	54		
67100100	MOBILIZATION	L SUM	1	1		
70100450	TRAFFIC CONTROL AND PROTECTION, STANDARD 701201	L SUM	1	1		
70100460	TRAFFIC CONTROL AND PROTECTION, STANDARD 701306	L SUM	. 1	1		
70100500	TRAFFIC CONTROL AND PROTECTION, STANDARD 701326	L SUM	1	1		
70101800	TRAFFIC CONTROL AND PROTECTION (SPECIAL)	L SUM	i	1		
78001110	PAINT PAVEMENT MARKING - LINE 4"	FOOT	149	149		
78100100	RAISED REFLECTIVE PAVEMENT MARKER	EACH	1	1		
80300100	LOCATING UNDERGROUND CABLE	FOOT	400	400		
		,				

en e*	7			CONTRA	ACT NO.	76938
	F.A.U. RTE.	SECTION	C	OUNTY	TOTAL SHEETS	SHEET NO.
	9170	124-2I		ST. CLAIF	₹ 10	3
	STA.		TO	STA.		
	FED. ROAD	DIST. NO.	ILLINOIS	FED. AIC	PROJECT	Г

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*SPECIALTY ITEMS

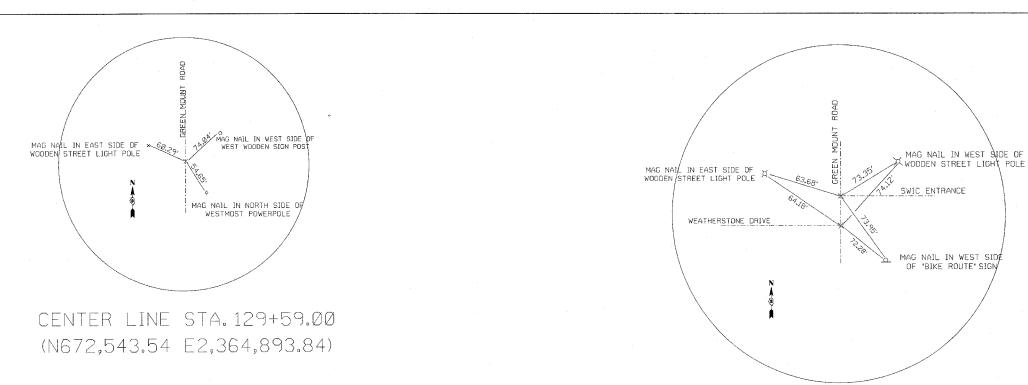
ILLINOIS DEPARTMENT OF TRANSPORTATION

SUMMARY OF QUANTITIES

		CUMMADY OF CHARTETIC			CONSTRUCTION TYPE CODE		
		SUMMARY OF QUANTITIES		TOTAL	URBAN 100% STATE		
	CODE NO	ITEM	UNIT	QUANTITIES	Y007		
×	81012500	CONDUIT IN TRENCH, 1 1/2" DIA., PVC	FOOT	150	150		
×	81500200	TRENCH AND BACKFILL FOR ELECTRICAL WORK	FOOT	150	150		
×	89502350	REMOVE AND REINSTALL ELECTRIC CABLE FROM CONDUIT	FOOT	885	885		
	X0987300	PRECAST CONCRETE BOX CULVERT END SECTIONS 6' X 5'	EACH	2	2		
	X7015000	CHANGEABLE MESSAGE SIGN	CAL MO	2	2		
	Z0013825	CONTROLLED LOW-STRENGTH MATERIAL	CU YD	5	5		
	Z0017202	DOWEL BARS 1 1/2"	EACH	24	24		
9	Z0056220	SAND MODULE IMPACT ATTENUATOR TO BE REMOVED	EACH	9	9		
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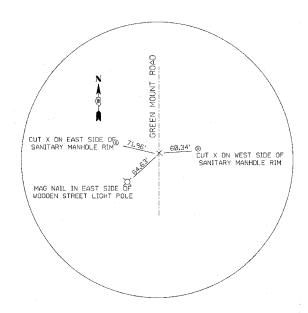
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* SPECIALTY ITEMS O SFTY-3N



| CONTRACT NO. 76938 | FAIL | SECTION | COUNTY | TOTAL | SHEET | SHEET | SHEET | ST. CLAIR | 10 | 5 |

C.L. 132+90.77 GREEN MOUNT ROAD = 0+74.73 WEATHERSTONE (N672,875.27 E2,364,888.19) C.L. 132+92.54 GREEN MOUNT ROAD = 0+00.00 SWIC ENT. (N672,877.03 E2,364,888.16)

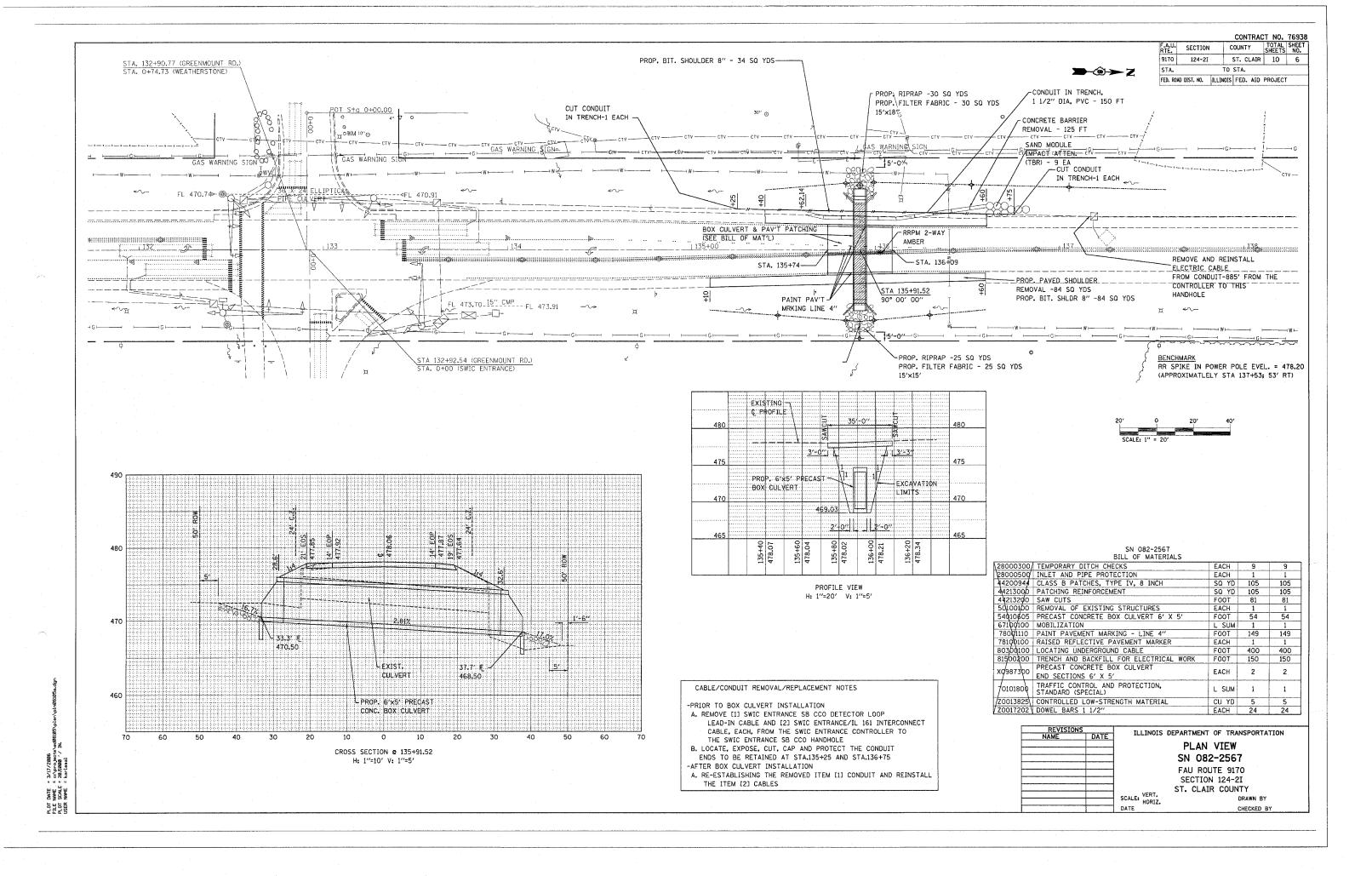


CENTER LINE STA. 136+61.39 (N673,245.83 E2,364,881.87)



PLOT DATE: 3/13/2006

sounters 3/13/2006 styprojects\ed08105\plan\pln08105o.dgn PEF-



- 1 THE TRAFFIC SIGNALS AT GREENMOUNT ROAD AND WEATHERSTONE/SWIC ENTRANCE SHALL BE PHASED TO FOUR WAY FLASHING RED DURING THE LANE CLOSURE. THE SIGNALS SHALL BE RESTORED TO THE ORIGINAL PHASING BEFORE THE LANE CAN BE OPENED TO TRAFFIC. THE COST OF THIS SHALL BE INCLUDED IN THE CONTRACT UNIT COST FOR TRAFFIC CONTROL AND PROTECTION (SPECIAL).
- 2. NO DROP OFF GREATER THAN 3 INCHES SHALL BE LEFT OVERNIGHT AT THE EDGE OF AN OPEN TRAVEL LANE. DROP OFFS SHALL BE FILLED WITH AGGREGATE AT THE END OF THE WORK DAY.
- 3. ALL EXCAVATION ADJACENT TO THE EDGE OF PAVEMENT SHALL BE PROTECTED WITH EXTENDED LEG BARRICADES AND APPROPRIATE LIGHTS DURING THE LANE CLOSURE.
- 4. "ROAD CONSTRUCTION AHEAD" SIGNS SHALL BE PLACED AT THE BEGINNING AND END OF THE PROJECT PLUS THE INTERSECTING SIDE ROADS, AND WILL BE INCLUDED IN THE TRAFFIC CONTROL PAY ITEMS. ALL CONSTRUCTION SIGNS SHALL BE FLUORESCENT ORANGE.
- 5. FLAGMEN SHALL BE PRESENT DURING ALL CLOSURE HOURS, INCLUDING LUNCH HOUR, AND NO ADDITIONAL COMPENSATION SHALL BE APPLIED.
- 6. MESSAGE BOARDS SHALL BE IN PLACE, AT A MINIMUM, ONE (1) WEEK PRIOR TO STAGE I. THE LOCATION OF THE MESSAGE BOARDS SHALL BE APPROVED BY THE ENGINEER.

STAGE I

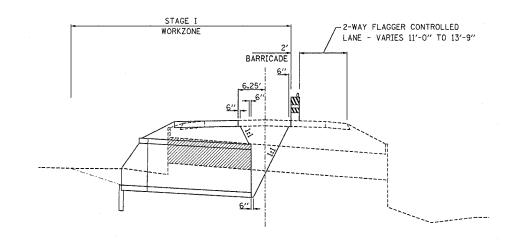
WORK- REMOVE AND REPLACE PORTION OF BOX CULVERT AS SHOWN IN STAGE I CROSS-SECTION (THIS SHEET).

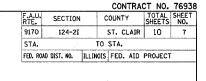
TRAFFIC CONTROL AND PROTECTION - THE CONTRACTOR SHALL UTILIZE "TRAFFIC CONTROL AND PROTECTION (SPECIAL)" FOR THIS STAGE OF THE PROJECT. THIS IS SHOWN ON SHEET NO. 7. AS STATED ON SHEET NO. 7. TRAFFIC CONTROL AND PROTECTION STANDARD 701201 (WITH ADDITIONS) SHALL BE UTILIZED DURING DAY-TIME WORK AND STANDARD 701206 (WITH ADDITIONS) SHALL BE UTILIZED AT NIGHT. AS STATED IN THE SPECIAL PROVISION "TRAFFIC CONTROL AND PROTECTION (SPECIAL)", STAGE I TRAFFIC CONTROL SHALL REMAIN IN-PLACE UNTIL STAGE I IS COMPLETED. THIS SHALL INCLUDE FILLING THE EXCAVATION WITH TEMPORARY AGGREGATE AND 3 INCHES OF BITUMINOUS CONCRETE. THIS SHALL BE COMPLETED TO THE SATISFACTION OF THE ENGINEER PRIOR TO THE OPENING OF THE LANE FOR TWO-WAY TRAFFIC. FOR STAGE I, THE ESTIMATED VOLUME OF AGGREGATE REQUIRED IS 116 CUBIC YARDS (232 TONS) AND 12 TONS OF BITUMINOUS CONCRETE. THE COST OF THE MATERIAL AND LABOR SHALL BE INCLUDED IN THE CONTRACT UNIT PRICE FOR "TRAFFIC CONTROL AND PROTECTION (SPECIAL)".

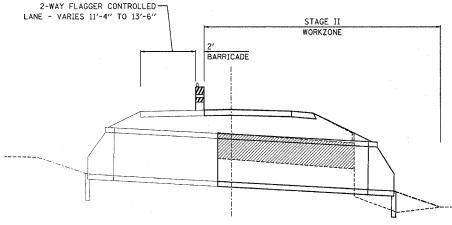
STAGE II

WORK- REMOVE AND REPLACE PORTION OF BOX CULVERT AS SHOWN IN STAGE II CROSS-SECTION (THIS SHEET).

TRAFFIC CONTROL AND PROTECTION - THE CONTRACTOR SHALL UTILIZE "TRAFFIC CONTROL AND PROTECTION (SPECIAL)" FOR THIS STAGE OF THE PROJECT. THIS IS SHOWN ON SHEET NO. 7. AS STATED ON SHEET NO. 7, TRAFFIC CONTROL AND PROTECTION STANDARD 701201 (WITH ADDITIONS) SHALL BE UTILIZED DURING DAY-TIME WORK AND STANDARD 701206 (WITH ADDITIONS) SHALL BE UTILIZED AT NIGHT. AS STATED IN THE SPECIAL PROVISION "TRAFFIC CONTROL AND PROTECTION (SPECIAL)". STAGE I TRAFFIC CONTROL SHALL REMAIN IN-PLACE UNTIL STAGE I IS COMPLETED. THIS SHALL INCLUDE FILLING THE EXCAVATION WITH TEMPORARY AGGREGATE AND 3 INCHES OF BITUMINOUS CONCRETE. THIS SHALL BE COMPLETED TO THE SATISFACTION OF THE ENGINEER PRIOR TO THE OPENING OF THE LANE FOR TWO-WAY TRAFFIC. FOR STAGE I, THE ESTIMATED VOLUME OF AGGREGATE REQUIRED IS 116 CUBIC YARDS (232 TONS) AND 12 TONS OF BITUMINOUS CONCRETE. THE COST OF THE MATERIAL AND LABOR SHALL BE INCLUDED IN THE CONTRACT UNIT PRICE FOR "TRAFFIC CONTROL AND PROTECTION (SPECIAL)".

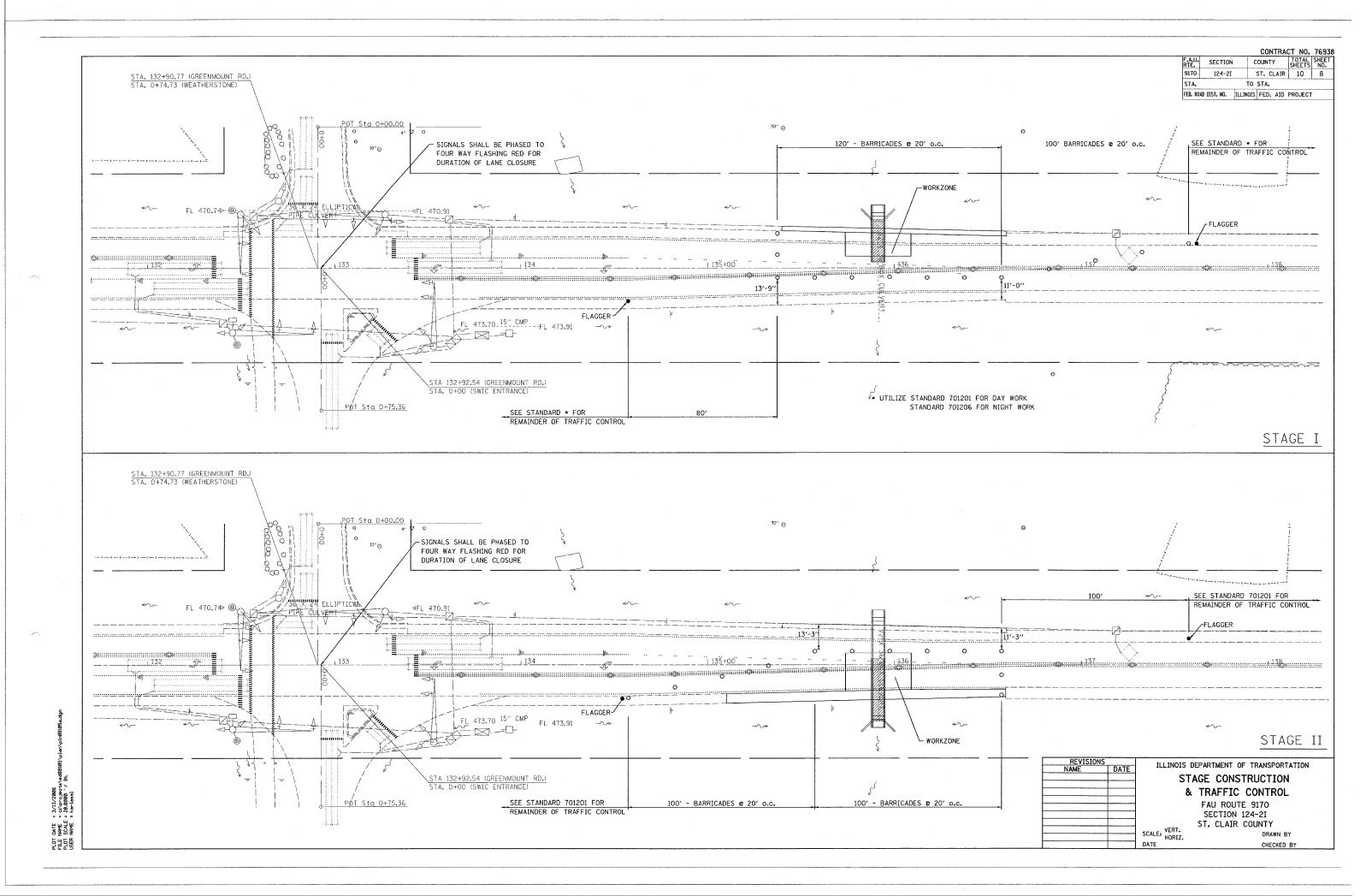






ILLINOIS DEPARTMENT OF TRANSPORTATION STAGE CONSTRUCTION & TRAFFIC CONTROL FAU ROUTE 9170 SECTION 124-2I ST. CLAIR COUNTY DRAWN BY

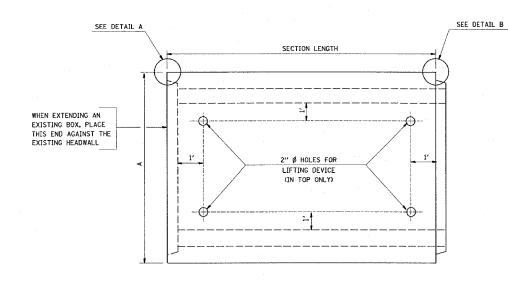
SCALE: VERT.



SECTION COUNTY TOTAL SHEETS 124-21 ST. CLAIR 10 9170 CONTRACT NO.: 76938

DETAIL OF PRECAST CONCRETE BOX CULVERT SECTION

(WITH COVER 2 FEET OR GREATER ASTM DESIGNATION C-789) DESIGN LOADING: HS-20-44



DETAIL A DETAIL B

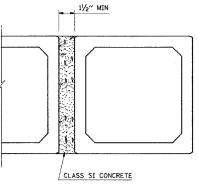
NOTE: INLET AND OUTLET ENDS SHALL BE COMPATIBLE

(TYP OUTLET END)

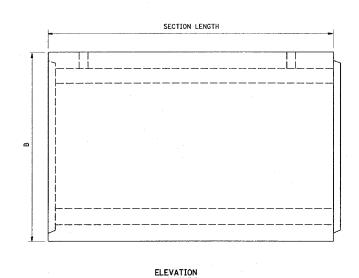
• THE D DIMENSION SHALL CONFORM TO THE MANUFACTURER'S STANDARDS.

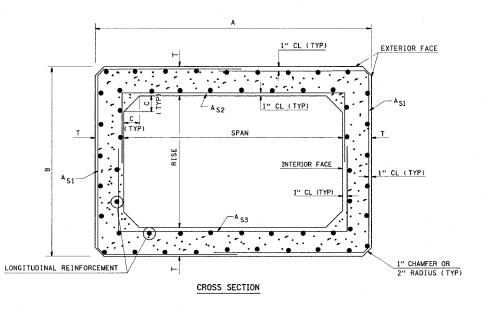
(TYP INLET END)





MULTIPLE UNIT PLACEMENT





GENERAL NOTES

SHOP PLANS FOR THE REINFORCEMENT SHALL BE SUBMITTED IN ACCORDANCE WITH THE REQUIREMENTS OF ARTICLE 504.04(A) OF THE STANDARD SPECIFICATIONS.

MINIMUM CONCRETE STRENGTH SHALL BE 5000 PSI AFTER 28 DAYS.

THE JOINTS OF THE PRECAST BOX SECTIONS SHALL BE SEALED WITH MASTIC IN ACCORDANCE WITH ARTICLE 755.01 OF THE STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION.

LIFTING HOLES SHALL BE FILLED WITH CONCRETE PLUGS AND MASTIC AFTER THE BOX SECTIONS ARE IN PLACE.

THE TERMS AS1, AS2, AND AS3 DENOTE THE REQUIRED STEEL AREAS FOR REINFORCEMENT AS SPECIFIED IN ASTM C 789. REINFORCEMENT SHALL BE OF WELDED WIRE FABRIC CONFORMING TO ASTM SPECIFICATIONS S 185.

DRAINAGE OPENINGS SHALL BE PROVIDED IN ACCORDANCE WITH ARTICLE 503.12 OF THE STANDARD SPECIFICATIONS, LOCATION AND SPACING OF THE OPENINGS SHALL BE SHOWN ON THE SHOP DRAWINGS.

DIMENSIONS

SPAN X RISE	T (INCHES)	A (FT-IN)	B (FT-IN)	C (INCHES)	SPAN X RISE	T (INCHES)	A (FT-IN)	B (FT-IN)	C
2′ X2′	4	2-8	2-8	4	9' X5'	9	10-6	6-6	9
3′ X2′	4	3-8	2-8	4	9' X6'	9	10-6	7-6	9
3′ X3′	4	3-8	3-8	4	9' X7'	9	10-6	8-6	9
4′ X2′	5	4-10	2-10	5	9′ X8′	9	10-6	9-6	9
4′ X3′	5	4-10	3-10	5	9, X3,	9	10-6	10-6	9
4' X4'	5	4-10	4-10	5					
5' X2'	6	6-0	3-0	6	10' X4'	10	11-8	5-8	10
5′ X3′	6	6-0	4-0	6	10' X5'	10	11-8	6-8	10
5' X4'	6	6-0	5-0	6	10′ X6′	10	11-8	7-8	10
5′ X5′	6	6-0	6-0	6	10' X7'	10	11-8	8-8	10
6′ X2′	7	7-2	3~2	7	10' X8'	10	11-8	9-8	10
6′ X3′	7	7-2	4-2	7	10' X9'	10	11-8	10-8	10
6' X4'	7	7-2	5-2	7	10' X10'	10	11-8	11-8	10
6' X5'	7	7-2	6-2	7					
6, Xe,	7	7-2	7-2	7	11' X4'	11	12-10	5~10	11
					11' X6"	11	12-10	7-10	11
					11' X8'	11	12-10	9-10	11
7′ X4′	8	8-4	5-4	8	11' X10'	11	12-10	11-10	11
7′ X5′	8	8-4	6-4	8	11' X11'	11	12-10	12-10	11
7′ X6′	8	8-4	7-4	8					
7′ X7′	8	8-4	8-4	8					
					12' X4'	12	14-0	6-0	12
8′ X4′	8	9-4	5-4	8	12' X6'	12	14-0	8-0	12
8′ X5′	8	9-4	6-4	8	12' X8'	12	14-0	10-0	12
8′ X6′	8	9-4	7-4	8	12' X10'	12	14-0	12-0	12
8' X7'	8	9-4	8-4	8	12' X12'	12	14-0	14-0	12
8' X8'	8	9-4	9-4	8			-		

ILLINOIS DEPARTMENT OF TRANSPORTATION

REVISIONS NAME

PRECAST CONCRETE BOX CULVERT SN 082-2567 FAU ROUTE 9170 SECTION 124-2I

ST. CLAIR COUNTY

PLOT DATE: 3/13/2006

DRAWN BY:

FAP ROUTE	SECTION	COUNTY	TOTAL SHEETS	SHEET HO
9170	124-2I	ST. CLAIR	10	10
STA.		TO STA.		
CONTR	ACT NO.			

GENERAL NOTES

SHOP PLANS FOR THE REINFORCEMENT SHALL BE SUBMITTED IN ACCORDANCE WITH THE REQUIREMENTS OF ARTICLE 504.04 (A) OF THE STANDARD SPECIFICATIONS.

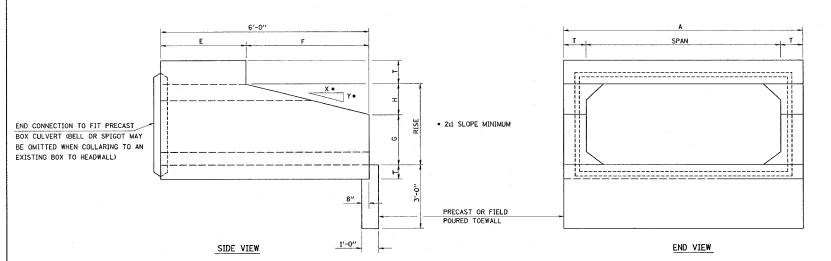
PLAN

MINIMUM CONCRETE STRENGTH SHALL BE 5000 PSI AFTER 28 DAYS.

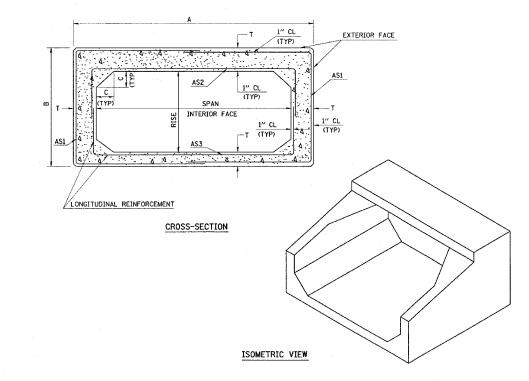
THE JOINTS OF THE PRECAST BOX SECTIONS SHALL BE SEALED WITH MASTIC IN ACCORDANCE WITH ARTICLE 755.01 OF THE STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION.

THE TERMS AS1, AS2, AS3 AND AS4 DENOTES THE REQUIRED STEEL AREAS FOR REINFORCEMENTS AS SPECIFIED IN ASTM C 789. REINFORCEMENT SHALL BE WELDED WIRE FABRIC CONFORMING TO ASTM SPECIFICATIONS A 185.

DETAIL OF PRECAST CONCRETE BOX CULVERT END SECTION



• NOTE: THE DIMENSIONS INDICATED ARE FOR END SECTIONS THAT ARE TO BE USED WITH PRECAST BOX CULVERT SECTIONS DESIGNED FOR 2' OR MORE OF FILL. THE DIMENSIONS MUST BE MODIFIED FOR THE END SECTION TO BE COMPATIBLE WITH PRECAST CULVERT SECTIONS DESIGNED FOR LESS THAN 2' OF FILL.



60.11 V DI	T	A	В	С	E	F	G	Н	SLOPE
SPAN X RIS	(INCHES)	(ET IN)	(FT-IN)	(INCHES)	l	/ CT TAIL	(FT-IN)	/ CT TNIX	(v. v.
	(INCHES)	(FI-IN)	(FI-IN)	(INCHES)	(FI-IN)	(FT-IN)	(F1-114)	(FT-IN)	(X: Y)
2' X 2'	4	2-8	2-8	. 4	3-0	3-0	1-0	1-0	3: 1
3' X 2'	4	3-8	2-8	4	3-0	3-0	1-0	1-0	3: 1
3′ X 3′	4	3-8	3-8	4	2-0	4-0	1-8	1-4	3: 1
4' X 2'	5	4-10	2-10	5	3-0	3-0	1-0	1-0	3: 1
4' X 3'	5	4-10	3-10	5	2-0	4-0	1-8	1-4	3: 1
4' X 4'	5	4-10	4-10	5	2-0	4-0	2-0	2-0	2: 1
5′ X 2′	6	6-0	3-0	6	3-0	3-0	1-0	1-0	3: 1
5' X 3'	6	6-0	4-0	6	2-0	4-0	1-8	1-4	3: 1
5′ X 4′	6	6-0	5-0	6	2-0	4-0	2-0	2-0	2: 1
5' X 5'	6	6-0	6-0	. 6					
6' X 2'	7	7-2	3-2	7	3-0	3-0	1-0	1-0	3: 1
6' X 3'	7	7-2	4-2	7	2-0	4-0	1-8	1-4	3: 1
6' X 4'	7	7-2	5-2	7	2-0	4-0	2-0	2-0	2: 1
6' X 5'		7-2	6-2	7					
6' X 6'	7	7-2	7-2	7			ļ		
				-					
									
7' X 4'	8	8-4	5-4	8	2-0	4-0	2-0	2-0	2: 1
7' X 5'	8	8-4	6-4	. 8			-		
7' X 6'	8	8-4	7-4	8				ļ	
7' X 7'		8-4	8-4	8					
									
0/ V 4/		9-4		8					
8' X 4' 8' X 5'	8	9-4	5-4 6-4	8	2-0	4-0	2-0	2-0	2: 1
8' X 6'	8	9-4	7-4	8					
8' X 6'	8	9-4	8-4	8					
8, X 8,	8	9-4	9-4	8			 		+
0 10	•	3-7	3-4	l°					
				1					+
		1							
9' X 5'	9	10-6	6~6	9					
9' X 6'	9	10-6	7-6	9	1				
9' X 7'	9	10-6	8-6	9					
9' X 8'	9	10-6	9-6	9					
9' X 9'	9	10-6	10-6	9					
		1					1		
10' X 4'	10	11-8	5-8	10					
10' X 5'	10	11-8	6-8	10					
10' X 6'	10	11-8	7-8	10			-		
10' X 7'	10	11-8	8-8	10					
10' X 8'	10	11-8	9-8	10					
10' X 9'	10	11-8	10-8	10					
10' X 10'	10	11-8	11-8	10					
11' X 4'	11	12-10	5-10	11					
11' X 6'	11	12-10	7-10	11					
11 X 8'	11	12-10	9-10	11					
11' X 10'	11	12-10	11-10	11					
11' X 11'	. 11	12-10	12-10	11					
								ļ	
12' X 4'	12	14-0	6-0	12				<u> </u>	
12' X 6'	12	14-0	8-0	12					
12' X 8'	12	14-0	10-0	12					
12' X 10'	12	14-0	12-0	12					
12' X 12'	12	14-0	14-0	12					
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	-								

ILLINOIS DEPARTMENT OF TRANSPORTATION

PRECAST CONCRETE

BOX CULVERT

SN 082-2567

FAU ROUTE 9170

SECTION 124-2I

ST. CLAIR COUNTY

DRAWN BY:

PLOT DATE: 3/13/2006

NOT TO SCALE

3/13/2006 culpurojectsljed08105ljplanlipun08105a.dgn •REF- END CONNECTION TO FIT PRECAST
BOX CULVERT (BELL OR SPIGOT MAY
BE OMITTED WHEN COLLARING TO AN
EXISTING BOX TO HEADWALL)