

135

01-18-2019 LETTING ITEM 135

STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION
 DIVISION OF HIGHWAYS
**PROPOSED
 HIGHWAY PLANS**

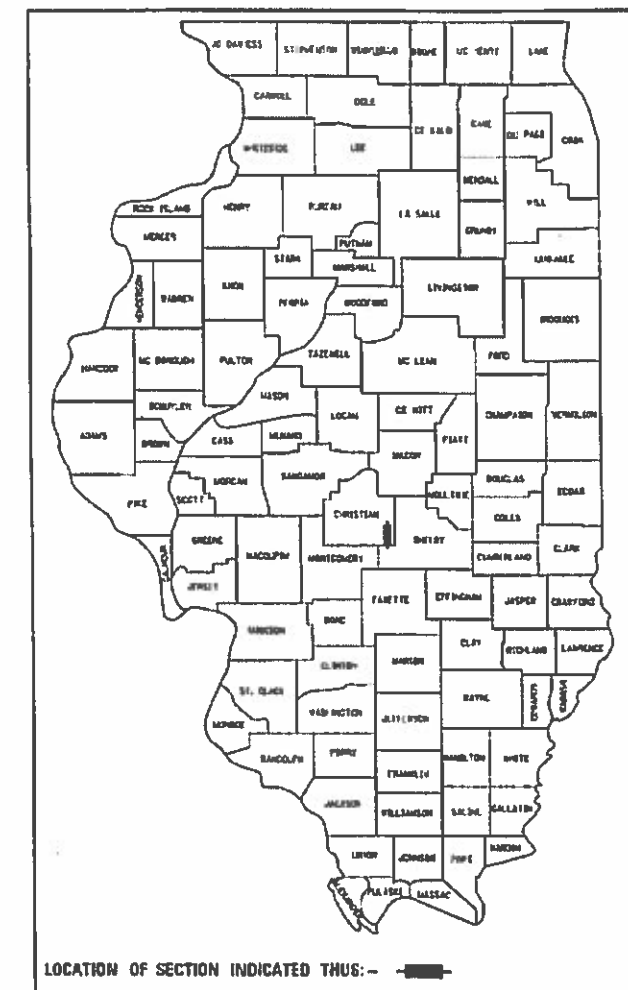
F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
322	43 CR	CHRISTIAN	33	1
		ILLINOIS	CONTRACT NO. 72C83	

INDEX OF SHEETS

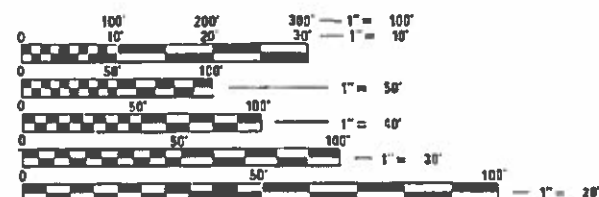
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FAP ROUTE 322 (US51)
 SECTION 43 CR
 PROJECT NHPP-TBYU(503)
 CULVERT REPLACEMENT OVER A DITCH
 0.87 MILES NORTH OF IL 16
 CHRISTIAN COUNTY

C-96-078-09



AVERAGE DAILY TRAFFIC
 3850 (2017)
 PV = 83.34% SU = 5.95% MU = 10.71%

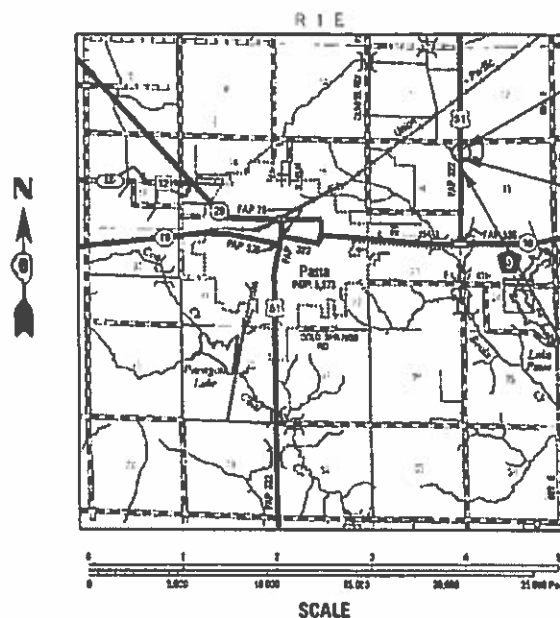


FULL SIZE PLANS HAVE BEEN PREPARED USING STANDARD ENGINEERING SCALES. REDUCED SIZED PLANS WILL NOT CONFORM TO STANDARD SCALES. IN MAKING MEASUREMENTS ON REDUCED PLANS, THE ABOVE SCALES MAY BE USED.

J.U.L.I.E.
 JOINT UTILITY LOCATION INFORMATION FOR EXCAVATION
 1-800-892-0123
 OR 811

PROJECT ENGINEER JAY WAVERING (217) 785-9046
 PROJECT MANAGER MICHAEL WHITLING (217) 524-0239

CONTRACT NO. 72C83



GROSS LENGTH = 900 FT. = 0.170 MILE
 NET LENGTH = 900 FT. = 0.170 MILE

END CONSTRUCTION
 STA. 115 + 00.00

STA. 110 + 55.00
 SN 011-2142 (PROP) SN 011-7036 (EX)
 10' SPAN X 3' RISE TRIPLE BOX
 PRECAST CULVERT 84' LONG WITH
 CAST-IN-PLACE END SECTIONS
 NO SKEW

BEGIN CONSTRUCTION
 STA. 106 + 00.00

FEHR GRAHAM
 ENGINEERING & ENVIRONMENTAL
 ILLINOIS DESIGN # 001-003925

ILLINOIS
 IOWA
 WISCONSIN



Mary Coombe Blosdick
 ILLINOIS PROFESSIONAL NO 43208
 EXPIRES 11-30-2019
 DATE: 08-15-2018

STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION
 DIVISION OF HIGHWAYS

SUBMITTED *4 October 2018*

[Signature]
 DEPUTY DIRECTOR OF HIGHWAYS, REGION ENGINEER

[Signature]
 ENGINEER OF DESIGN AND ENVIRONMENT

[Signature]
 DIRECTOR OF HIGHWAYS PROJECT IMPLEMENTATION

PRINTED BY THE AUTHORITY
 OF THE STATE OF ILLINOIS

SUMMARY OF QUANTITIES				NHPP FUNDING	
				PPS #6-00513-0000	
CODE NO.	ITEM	UNIT	TOTAL QUANTITY	ROADWAY 0004	BRIDGE 0004
				RURAL	S.N. 011-2142
20200100	EARTH EXCAVATION	CU YD	1161	1161	
20200500	EARTH EXCAVATION (WIDENING)	CU YD	349	349	
20800150	TRENCH BACKFILL	CU YD	52	52	
21301052	EXPLORATION TRENCH 52" DEPTH	FOOT	100	100	
25000200	SEEDING, CLASS 2	ACRE	1.25	1.25	
25000400	NITROGEN FERTILIZER NUTRIENT	POUND	98	98	
25000500	PHOSPHORUS FERTILIZER NUTRIENT	POUND	98	98	
25000600	POTASSIUM FERTILIZER NUTRIENT	POUND	98	98	
25000700	AGRICULTURAL GROUND LIMESTONE	TON	2.2	2.2	
25100115	MULCH, METHOD 2	ACRE	1.25	1.25	
28000250	TEMPORARY EROSION CONTROL SEEDING	POUND	109	109	
28000305	TEMPORARY DITCH CHECKS	FOOT	129	129	
28000500	INLET AND PIPE PROTECTION	EACH	2	2	
28001000	AGGREGATE (EROSION CONTROL)	TON	50	50	

* SPECIALTY ITEM

REV. - MS

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USER NAME = cconnor	DESIGNED - MCB	REVISED -
	DRAWN - CFC	REVISED -
PLOT SCALE = 100.000000' / in.	CHECKED - GLS	REVISED -
PLOT DATE = 8/15/2018	DATE -	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

SUMMARY OF QUANTITIES
US 51

SCALE: SHEET OF SHEETS STA. TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
322	43 CR	CHRISTIAN	33	3
			CONTRACT NO. 72C83	
ILLINOIS FED. AID PROJECT				

SUMMARY OF QUANTITIES				NHPP FUNDING	
				PPS #6-00513-0000	
CODE NO.	ITEM	UNIT	TOTAL QUANTITY	ROADWAY 0004	BRIDGE 0004
				RURAL	S.N. 011-2142
48203100	HOT-MIX ASPHALT SHOULDERS	TON	176	176	
50100100	REMOVAL OF EXISTING STRUCTURES	EACH	1		1
50105220	PIPE CULVERT REMOVAL	FOOT	70	70	
50200100	STRUCTURE EXCAVATION	CU YD	565		565
51500100	NAME PLATES	EACH	1		1
52200020	TEMPORARY SOIL RETENTION SYSTEM	SQ FT	224		224
54001001	BOX CULVERT END SECTIONS, CULVERT NO. 1	EACH	2		2
54011003	PRECAST CONCRETE BOX CULVERTS 10' X 3'	FOOT	243		243
542D0220	PIPE CULVERTS, CLASS D, TYPE 1 15"	FOOT	44	44	
542D0229	PIPE CULVERTS, CLASS D, TYPE 1 24"	FOOT	42	42	
54262715	METAL FLARED END SECTIONS 15"	EACH	2	2	
54262724	METAL FLARED END SECTIONS 24"	EACH	2	2	
61133100	FIELD TILE JUNCTION VAULTS, 2' DIA.	EACH	2	2	
61140200	STORM SEWERS (SPECIAL), 12"	FOOT	150	150	

* SPECIALTY ITEM

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	DRAWN - CFC	REVISED -
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PLOT DATE = 8/15/2018	DATE -	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

SUMMARY OF QUANTITIES
US 51

SCALE: SHEET OF SHEETS STA. TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
322	43 CR	CHRISTIAN	33	5
			CONTRACT NO. 72C83	
			ILLINOIS FED. AID PROJECT	

REV. - MS

SUMMARY OF QUANTITIES				NHPP FUNDING	
				PPS #6-00513-0000	
CODE NO.	ITEM	UNIT	TOTAL QUANTITY	ROADWAY 0004	BRIDGE 0004
				RURAL	S.N. 011-2142
66600105	FURNISHING AND ERECTING RIGHT OF WAY MARKERS	EACH	8	8	
67000400	ENGINEER'S FIELD OFFICE, TYPE A	CAL MO	9	9	
67100100	MOBILIZATION	L SUM	1	1	
70100405	TRAFFIC CONTROL AND PROTECTION, STANDARD 701321	EACH	1	1	
70100460	TRAFFIC CONTROL AND PROTECTION, STANDARD 701306	L SUM	1	1	
70100500	TRAFFIC CONTROL AND PROTECTION, STANDARD 701326	L SUM	1	1	
70106500	TEMPORARY BRIDGE TRAFFIC SIGNALS	EACH	1	1	
70300100	SHORT TERM PAVEMENT MARKING	FOOT	162	162	
70300150	SHORT TERM PAVEMENT MARKING REMOVAL	SQ FT	486	486	
70400100	TEMPORARY CONCRETE BARRIER	FOOT	387.5	387.5	
70400200	RELOCATE TEMPORARY CONCRETE BARRIER	FOOT	387.5	387.5	
70500100	TEMPORARY STEEL PLATE BEAM GUARDRAIL, TYPE A	FOOT	112.5	112.5	
70500615	TEMPORARY TRAFFIC BARRIER TERMINAL, TYPE 1	EACH	2	2	
70600260	IMPACT ATTENUATORS, TEMPORARY (FULLY REDIRECTIVE, NARROW), TEST LEVEL 3	EACH	2	2	

* SPECIALTY ITEM

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PLOT DATE = 8/15/2018	DATE -	REVISED -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**SUMMARY OF QUANTITIES
US 51**

SCALE: SHEET OF SHEETS STA. TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
322	43 CR	CHRISTIAN	33	6
			CONTRACT NO. 72C83	
		ILLINOIS	FED. AID PROJECT	

REV. - MS

SUMMARY OF QUANTITIES				NHPP FUNDING	
				PPS #6-00513-0000	
CODE NO.	ITEM	UNIT	TOTAL QUANTITY	ROADWAY 0004	BRIDGE 0004
				RURAL	S.N. 011-2142
70600332	IMPACT ATTENUATORS, RELOCATE (FULLY REDIRECTIVE, NARROW), TEST LEVEL 3	EACH	2	2	
* 72400600	RELOCATE SIGN PANEL ASSEMBLY - TYPE B	EACH	1	1	
* 72400710	RELOCATE SIGN PANEL - TYPE 1	SQ FT	11	11	
* 72501000	TERMINAL MARKER - DIRECT APPLIED	EACH	2	2	
* 78001120	PAINT PAVEMENT MARKING - LINE 5"	FOOT	2025	2025	
* 78100100	RAISED REFLECTIVE PAVEMENT MARKER	EACH	12	12	
78300200	RAISED REFLECTIVE PAVEMENT MARKER REMOVAL	EACH	12	12	
X0301852	DEWATERING STRUCTURE NO. 1	EACH	1		1
X0327979	PAVEMENT MARKING REMOVAL - GRINDING	SQ FT	733	733	
X0900064	MEMBRANE WATERPROOFING SYSTEM FOR BURIED STRUCTURES	SQ YD	338		338
* X2300009	LONG-SPAN GUARDRAIL OVER CULVERT, 18 FT 9 IN SPAN (SPECIAL)	FOOT	43.75	43.75	
X4401198	HOT-MIX ASPHALT SURFACE REMOVAL, VARIABLE DEPTH	SQ YD	1397	1397	
70107025	CHANGEABLE MESSAGE SIGN	CAL DA	210	210	
Ø Z0076600	TRAINEES	HOUR	500	500	
X7200201	WIDTH RESTRICTION SIGNING	L SUM	1	1	
Ø Z0076604	TRAINEES TRAINING PROGRAM GRADUATE	HOUR	500	500	
Z0023602	GRANULAR CULVERT BACKFILL	CU YD	100		100
Z0033700	LONGITUDINAL JOINT SEALANT	FOOT	900	900	

* SPECIALTY ITEM Ø 0042

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PLOT SCALE = 100.000000' / in.	CHECKED - GLS	REVISED -
PLOT DATE = 8/15/2018	DATE -	REVISED -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**SUMMARY OF QUANTITIES
US 51**

SCALE: SHEET OF SHEETS STA. TO STA.

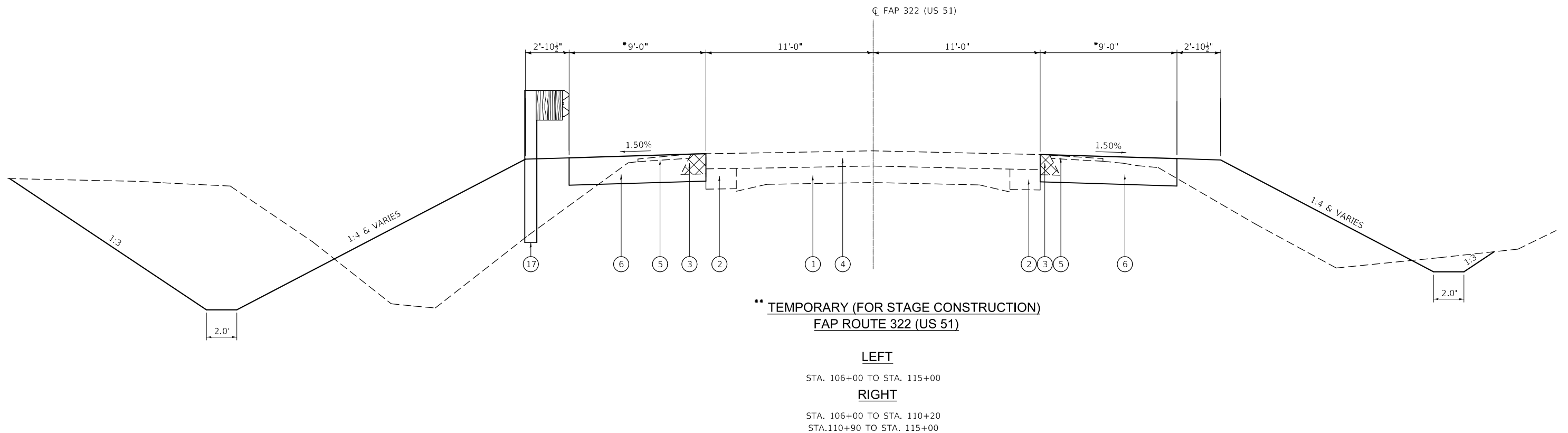
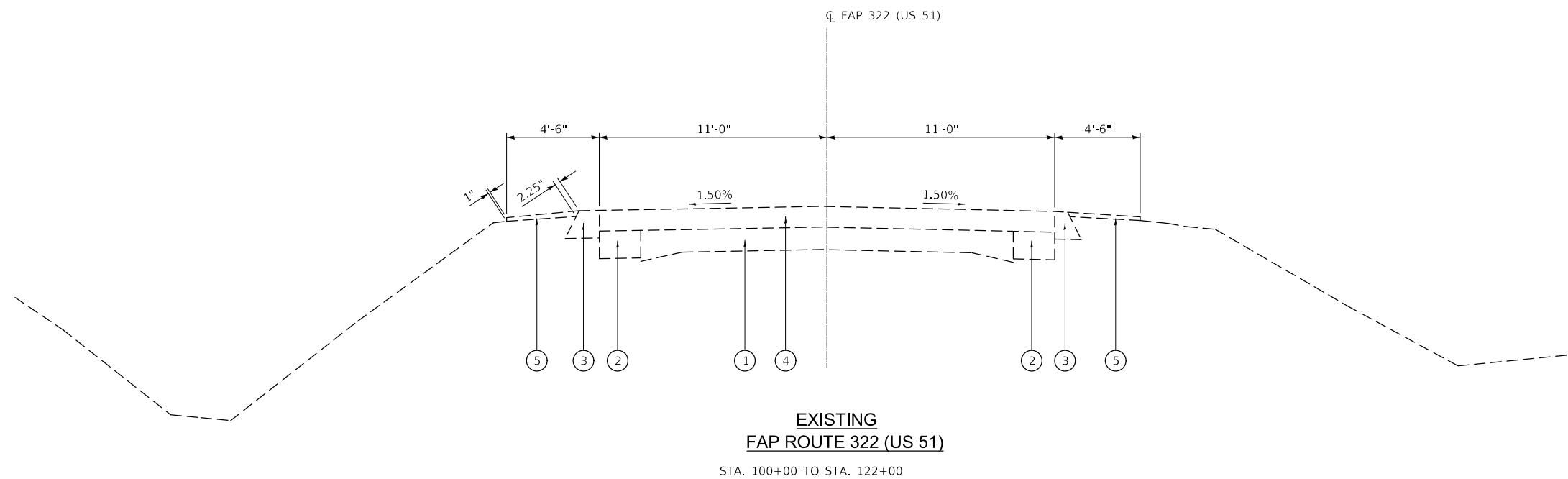
F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
322	43 CR	CHRISTIAN	33	7
			CONTRACT NO. 72C83	
ILLINOIS FED. AID PROJECT				

LEGEND

- ① EXIST. 9-6-9 PCC PAVEMENT
- ② EXIST. HMA WIDENING
- ③ EXIST. HMA SHOULDERS 6" MIN. TBR.
- ④ EXIST. HMA SURFACE
- ⑤ EXIST. AGGREGATE SHOULDERS, TYPE B
- ⑥ PROP. HMA BASE COURSE WIDENING, 10"
- ⑦ PROP. LEVELING BINDER (MACHINE METHOD), 3/4" AVG.
- ⑧ PROP. HMA SURFACE COURSE, 1 1/2"
- ⑨ PROP. AGGREGATE SHOULDERS, TYPE B
- ⑩ PROP. PAVEMENT MARKING, LINE 5"
- ⑪ PROP. HMA SHOULDERS, 2-1/4"
- ⑫ PROP. HMA SURFACE REMOVAL, 1 1/2"
- ⑬ PROP. GRANULAR CULVERT BACKFILL
- ⑭ PROP. HMA BASE COURSE, 10 1/2"
- ⑮ PROP. HMA SURFACE REMOVAL (VARIABLE DEPTH)
- ⑯ PROP. LONGITUDINAL JOINT SEALANT
- ⑰ PROP. TEMPORARY GUARDRAIL

* WIDTH OF HMA BASE COURSE / WIDENING VARIES FROM 4.0' TO 9.0'

** CONSTRUCTED PRE - STAGE I



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FEHR GRAHAM
ENGINEERING & ENVIRONMENTAL
ILLINOIS DESIGN FIRM NO. 184-003525

USER NAME = cconnor
DESIGNED - MCB
DRAWN - CFC
CHECKED - MCB
DATE -
PLOT SCALE = 2.000000' / in.
PLOT DATE = 8/15/2018

DESIGNED - MCB
DRAWN - CFC
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DATE -

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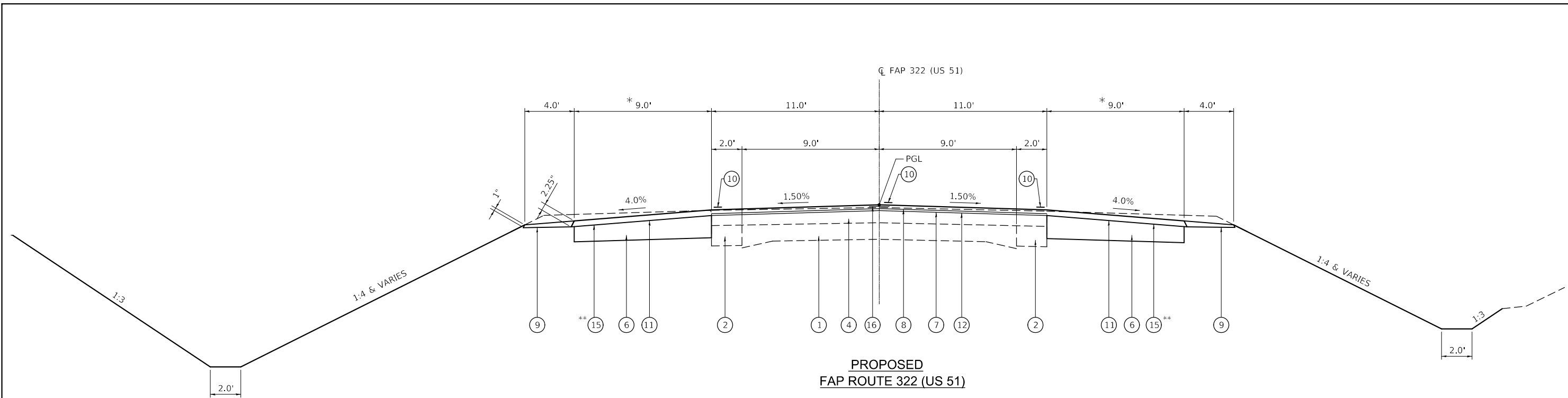
**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**TYPICAL SECTIONS
US 51**

SCALE: SHEET OF SHEETS STA. TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
322	43 CR	CHRISTIAN	33	8
CONTRACT NO. 72C83				
ILLINOIS FED. AID PROJECT				

FEHR GRAHAM PROJECT NUMBER: 17-430



**PROPOSED
FAP ROUTE 322 (US 51)**

STA. 106+00 TO STA. 110+20
STA. 110+90 TO STA. 115+00

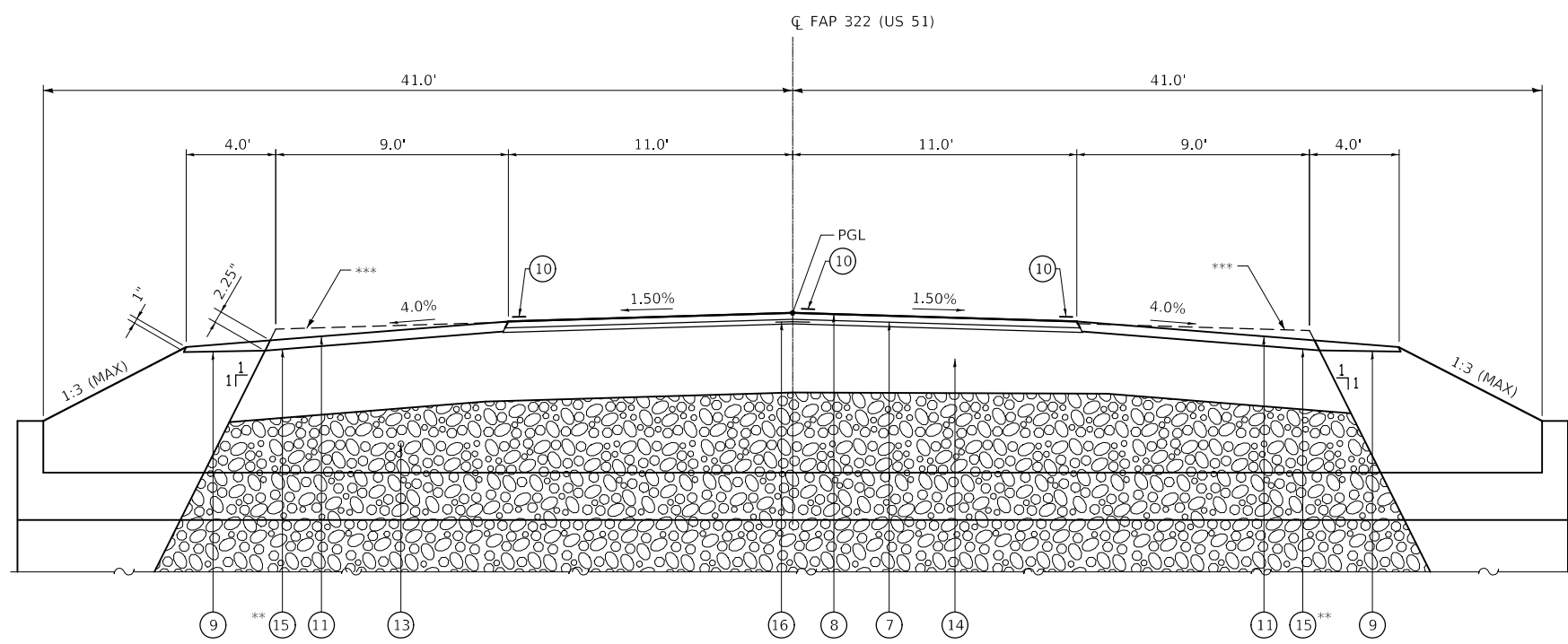
LEGEND

- ① EXIST. 9-6-9 PCC PAVEMENT
- ② EXIST. HMA WIDENING
- ③ EXIST. HMA SHOULDERS 6" MIN. TBR.
- ④ EXIST. HMA SURFACE
- ⑤ EXIST. AGGREGATE SHOULDERS, TYPE B
- ⑥ PROP. HMA BASE COURSE WIDENING, 10"
- ⑦ PROP. LEVELING BINDER (MACHINE METHOD), 3/4" AVG.
- ⑧ PROP. HMA SURFACE COURSE, 1 1/2"
- ⑨ PROP. AGGREGATE SHOULDERS, TYPE B
- ⑩ PROP. PAVEMENT MARKING, LINE 5"
- ⑪ PROP. HMA SHOULDERS, 2-1/4"
- ⑫ PROP. HMA SURFACE REMOVAL, 1 1/2"
- ⑬ PROP. GRANULAR CULVERT BACKFILL
- ⑭ PROP. HMA BASE COURSE, 10 1/2"
- ⑮ PROP. HMA SURFACE REMOVAL (VARIABLE DEPTH)
- ⑯ PROP. LONGITUDINAL JOINT SEALANT
- ⑰ PROP. TEMPORARY GUARDRAIL

* WIDTH OF HMA BASE COURSE / WIDENING VARIES FROM 4.0' TO 9.0'

** MILL 1 1/2" AT EDGE OF ROADWAY AND SLOPE 4% ACROSS WIDTH OF SHOULDER

*** TOP OF HMA BASE COURSE 10 1/2" WILL MATCH EXISTING PAVEMENT ELEVATION AND TEMPORARY WIDENING FOR STAGED CONSTRUCTION



**PROPOSED
FAP ROUTE 322 (US 51)**

STA 110+20 TO STA 110+90

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FEHR GRAHAM
ENGINEERING & ENVIRONMENTAL
ILLINOIS DESIGN FIRM NO. 184-003525

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PLOT SCALE = 2,000,000' / in.	DRAWN - CFC	REVISED -
PLOT DATE = 8/15/2018	CHECKED - MCB	REVISED -
	DATE -	REVISED -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

TYPICAL SECTIONS		US 51	
SCALE:	SHEET	OF SHEETS	STA. TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
322	43 CR	CHRISTIAN	33	9
CONTRACT NO. 72C83				
ILLINOIS FED. AID PROJECT				

SUMMARY OF EARTHWORK					
LOCATION	EARTH EXCAVATION	EARTH EXCAVATION WIDENING	EXCAVATION ADJUSTED FOR SHRINKAGE	EMBANKMENT	EARTHWORK BALANCE WASTE (+) OR SHORTAGE (-)
PRE-STAGE I	CU YD	CU YD	CU YD	CU YD	CU YD
LEFT	556.0	165.0	540.8	336.0	204.75
RIGHT	605.0	184.0	591.8	325.0	266.75
TOTAL	1161	349	1133	661	472

TRAFFIC CONTROL SCHEDULE					
STATION	OFFSET	TEMPORARY CONCRETE BARRIER (FOOT)	RELOCATE TEMPORARY CONCRETE BARRIER (FOOT)	IMPACT ATTENUATORS, TEMPORARY (FULLY REDIRECTIVE, NARROW), TEST LEVEL 3 (EACH)	IMPACT ATTENUATORS, RELOCATE (FULLY REDIRECTIVE, NARROW), TEST LEVEL 3 (EACH)
STAGE I					
STA 108+43.68 TO STA 109+95	4.61' RT TO 8' LT	150		2	
STA 109+95 TO STA 111+21.7	8' LT	125			
STA 111+21.7 TO STA 112+34.82	8' LT TO 5.20' RT	112.5			
STAGE II					
STA 108+81.77 TO STA 109+95	4.17' LT TO 8' RT		150		2
STA 109+95 TO STA 111+21.7	8' RT		125		
STA 111+21.7 TO STA 112+34.82	8' RT TO 4.61' LT		112.5		
TOTALS		387.5	387.5	2	2

TEMPORARY GUARDRAIL SCHEDULE				
STATION TO STATION	OFFSET	TEMPORARY STEEL PLATE BEAM GUARDRAIL, TYPE A (FOOT)	TEMPORARY TRAFFIC BARRIER TERMINAL, TYPE 1 (EACH)	LONG SPAN GUARDRAIL OVER CULVERT, 18 FT 9 IN SPAN (SPECIAL) (FOOT)
STA 109+26.61 TO STA 109+76.61	20' LT		1	
STA 109+76.61 TO STA 110+32.86	20' LT	56.25		
STA 110+32.86 TO STA 110+76.61	20' LT			43.75
STA 110+76.61 TO STA 111+32.86	20' LT	56.25		
STA 111+32.86 TO STA 111+82.86	20' LT		1	
TOTALS		112.5	2	43.75

DRAINAGE SCHEDULE									
LOCATION	OFFSET	TRENCH BACKFILL	EXPLORATION TRENCH 52" DEPTH	PIPE CULVERTS		METAL END SECTIONS		FIELD TILE JUNCTION VAULTS, 2' DIA	STORM SEWERS (SPECIAL), 12"
				CL D TY 1 15"	CL D TY 1 24"	15"	24"		
		CY	FOOT	FT	FT	EACH	EACH	EACH	FT
STA 110+55	49.6' LT TO 49.6' RT	52							
ENTRANCES									
STA 107+49.9	LT			44		2			
STA 107+52	RT				42		2		
STA 110+55	70' LT		50					1	
STA 110+55	70' RT		50					1	
STA 110+55	75' LT TO 75' RT								150
TOTALS		52	100	44	42	2	2	2	150

PAVEMENT MARKING SCHEDULE					
LOCATION	SIDE	DESCRIPTION	SHORT TERM PAVEMENT MARKING (FOOT)	SHORT TERM PAVEMENT MARKING REMOVAL (SQ FT)	PAINT PAVEMENT MARKING LINE, 5" (FOOT)
STA 106+00 TO STA 115+00	LT	WHITE EDGE LINE	108	12	900
STA 106+00 TO STA 115+00	RT	WHITE EDGE LINE	108	12	900
STA 106+00 TO STA 115+00	CL	YELLOW SKIP DASH	270	30	225
TOTALS			486	54	2025

RAISED REFLECTIVE PAVEMENT MARKER SCHEDULE			
STATION	LOCATION	RAISED REFLECTIVE PAVEMENT MARKER (EACH)	RAISED REFLECTIVE PAVEMENT MARKER REMOVAL (EACH)
STA 106+00 TO STA 115+00, CL	80' CENTERS	12	12
TOTALS		12	12

PAVEMENT SCHEDULE								
LOCATION STATION TO STATION	AGGREGATE SURFACE COURSE, TYPE B	HOT-MIX ASPHALT BASE COURSE, 10 1/2"	HOT-MIX ASPHALT BASE COURSE WIDENING, 10"	LEVELING BINDER (MACHINE METHOD), N50, .75"	HOT-MIX ASPHALT SURFACE COURSE, MIX "C", N50, 1.5"	AGGREGATE SHOULDERS, TYPE B	HOT-MIX ASPHALT SHOULDERS, 2.25"	LONGITUDINAL JOINT SEALANT
	TON	SQ YD	SQ YD	TON	TON	TON	TON	FOOT
US 51 ROADWAY								
STA 106+00 TO 115+00, LT				46.2	92.4			
STA 106+00 TO 115+00, RT				46.2	92.4			
STA 106+00 TO 115+00, CL								900
US 51 SHOULDERS								
STA 106+00 TO 107+45, RT			64.4			5.94	8.12	
STA 107+45 TO 108+35, RT			65			3.69	8.19	
STA 108+35 TO 110+20, RT			185			7.59	23.31	
STA 110+20 TO 110+90, RT						2.87	8.82	
STA 110+90 TO 112+82, RT			192			7.87	24.192	
STA 112+82 TO 113+72, RT			65			3.69	8.19	
STA 113+72 TO 115+00, RT			56.9			5.25	7.168	
STA 106+00 TO 107+45, LT			64.4			5.95	8.12	
STA 107+45 TO 108+35, LT			65			3.69	8.19	
STA 108+35 TO 112+82, LT			447			18.33	56.322	
STA 112+82 TO 113+72, LT			65			3.69	8.19	
STA 113+72 TO 115+00, LT			56.9			5.25	7.168	
US 51 ROADWAY & SHOULDERS								
STA 110+20 TO 110+90, LT		155.6						
STA 110+20 TO 110+90, RT		155.6						
ENTRANCES								
STA 107+45.00, LT	23.1							
STA 107+52.00, RT	31.1							
TOTAL	54	311	1327	92	185	74	176	900

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USER NAME = cconnor
 PLOT SCALE = 100.000000' / in.
 PLOT DATE = 8/15/2018

DESIGNED - MCB
 DRAWN - MMY
 CHECKED - GLS
 DATE -

REVISED -
 REVISED -
 REVISED -
 REVISED -

STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION

SCHEDULES OF QUANTITIES
 US 51

SCALE: SHEET OF SHEETS STA. TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
322	43 CR	CHRISTIAN	33	10
CONTRACT NO. 72C83				
ILLINOIS FED. AID PROJECT				

REMOVAL SCHEDULE							
LOCATION STATION TO STATION	PAVEMENT REMOVAL	HOT-MIX ASPHALT SURFACE REMOVAL, 1 1/2"	PAVED DITCH REMOVAL	PAVED SHOULDER REMOVAL	PIPE CULVERT REMOVAL	PAINT PAVEMENT MARKING REMOVAL - GRINDING	HOT-MIX ASPHALT SURFACE REMOVAL (VARIABLE DEPTH)
	SQ YD	SQ YD	FOOT	SQ YD	FEET	SQ FT	SQ YD
US 51 ROADWAY							
STA 106+15 TO STA 114+85, RT		1063.3					
STA 106+15 TO STA 114+85, LT		1063.3					
STA 110+20 TO STA 110+90, LT	155.6						
STA 110+20 TO STA 110+90, RT	85.6						
DITCHES							
STA 106+20 TO STA 106+50, LT			30				
STA 106+20 TO STA 106+50, RT			30				
STA 113+00 TO STA 114+80, RT			180				
SHOULDERS							
STA 106+00 TO STA 115+00, LT PRE STAGE I				85.2			
STA 106+00 TO STA 110+20, RT PRE STAGE I				86.5			
STA 110+20 TO STA 110+90, RT STAGE I				18.5			
STA 110+90 TO STA 115+00, RT PRE STAGE I				84.4			
STA 106+00 TO STA 107+45, LT							64.4
STA 107+45 TO STA 108+35, LT							65.0
STA 108+35 TO STA 112+82, LT							447.0
STA 112+82 TO STA 113+72, LT							65.0
STA 113+72 TO STA 115+00, LT							56.9
STA 106+00 TO STA 107+45, RT							64.4
STA 107+45 TO STA 108+35, RT							65.0
STA 108+35 TO STA 112+82, RT							447.0
STA 112+82 TO STA 113+72, RT							65.0
STA 113+72 TO STA 115+00, RT							56.9
WHITE EDGE LINE							
STA 107+00 TO STA 114+40, LT						310.8	
STA 106+60 TO STA 114+40, RT						327.6	
YELLOW SKIP DASH							
STA 108+00 TO STA 113+00, CL						94.5	
PIPE CULVERT - 15" CMP							
STA 107+31.66, 30.09' LT TO STA 107+68.03, 30.79' LT					36.4		
PIPE CULVERT - 18" CMP							
STA 107+35.15, 34.42' RT TO STA 107+68.06, 35.58' RT					32.91		
TOTAL	241	2127	240	275	70	733	1397

RIGHT-OF-WAY MARKERS SCHEDULE		
STATION	OFFSET	FURNISHING AND ERECTING RIGHT-OF-WAY MARKERS (EACH)
109+00	60' LT	1
109+00	60' RT	1
109+25	75' LT	1
109+25	75' RT	1
112+00	75' LT	1
112+00	75' RT	1
112+25	60' LT	1
112+25	60' RT	1
TOTAL		8

TEMPORARY EROSION CONTROL SCHEDULE			
STATION	SIDE	TEMPORARY DITCH CHECKS (FOOT)	INLET AND PIPE PROTECTION (EACH)
107+00	LT	10.75	
108+50	LT	10.75	
110+00	LT	10.75	
107+00	RT	10.75	
108+50	RT	10.75	
110+00	RT	10.75	
111+00	LT	10.75	
112+50	LT	10.75	
114+00	LT	10.75	
111+00	RT	10.75	
112+50	RT	10.75	
114+00	RT	10.75	
107+26	LT		1
107.29	RT		1
TOTAL		129	2

SIGN PANEL SCHEDULE			
STATION	OFFSET	RELOCATE SIGN PANEL ASSEMBLY (EACH)	RELOCATE SIGN PANEL, TYPE 1 (SQ FT)
STA 107+07.66	26.82' RT		5.5
STA 112+43.95	26.17' RT	1	
STA 113+20.42	29.01' LT		5.5
TOTALS		1	11

HOT-MIX ASPHALT SURFACE REMOVAL, BUTT JOINT		
LOCATION (STATION TO STATION)	WIDTH FEET	SQ YD
STA 106+00 TO 106+15	22	36.7
STA 114+85 TO 115+00	22	36.7
TOTAL		73

RIPRAP SCHEDULE	
LOCATION	STONE DUMPED RIPRAP, CLASS A4 (TON)
CHANNEL LT	186.6
TOTALS	187

RESURFACING SCHEDULE				
STATION TO STATION	SIDE	DESCRIPTION	BITUMINOUS MATERIALS (PRIME COAT) (POUND)	BITUMINOUS MATERIALS (TACK COAT) (POUND)
AGGREGATE SHOULDERS				
STA 110+20 TO STA 110+90	LT	UNDER HMA	350	
STA 110+20 TO STA 110+90	RT	BASE CSE	350	
MILLED ROADWAY SURFACE				
STA 106+00 TO STA 115+00	LT			495
STA 106+00 TO STA 115+00	RT			495
FOG COAT				
STA 106+00 TO STA 115+00	LT			247.5
STA 106+00 TO STA 115+00	RT			247.5
MILLED SHOULDERS				
STA 106+00 TO STA 107+45	RT			29.0
STA 107+45 TO STA 108+35	RT			29.3
STA 108+35 TO STA 112+82	RT			201.2
STA 112+82 TO STA 113+72	RT			29.3
STA 113+72 TO STA 115+00	RT			25.6
STA 106+00 TO STA 107+45	LT			29.0
STA 107+45 TO STA 108+35	LT			29.3
STA 108+35 TO STA 112+82	LT			201.2
STA 112+82 TO STA 113+72	LT			29.3
STA 113+72 TO STA 115+00	LT			25.6
TOTAL			700	2114

SEEDING SCHEDULE							
LOCATION	SEEDING, CLASS 2 (ACRE)	NITROGEN FERTILIZER NUTRIENT (POUND)	PHOSPHORUS FERTILIZER NUTRIENT (POUND)	POTASSIUM FERTILIZER NUTRIENT (POUND)	AGRICULTURAL GROUND LIMESTONE (TON)	MULCH METHOD 2 (ACRE)	TEMPORARY EROSION CONTROL SEEDING (POUND)
LT OF CL ROAD	0.55	49.5	49.5	49.5	1.1	0.55	55.0
RT OF CL ROAD	0.54	48.6	48.6	48.6	1.1	0.54	54.0
TOTALS	1.25	98	98	98	2.2	1.25	109

AGGREGATE EROSION CONTROL	
LOCATION	TON
STA 106+00, DITCH LT	
STA 106+00, DITCH RT	
STA 110+55 TO 110+90, 75' LT	
STA 115+00, DITCH LT	
STA 115+00, DITCH RT	
TOTAL	50

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FEHR GRAHAM
ENGINEERING & ENVIRONMENTAL
ILLINOIS DESIGN FIRM NO. 184-003525

USER NAME = cconnor
DESIGNED - MCB
DRAWN - MMY
PLOT SCALE = 100.000000' / in.
CHECKED - GLS
PLOT DATE = 8/15/2018
DATE -

REVISOR -
REVISOR -
REVISOR -
REVISOR -

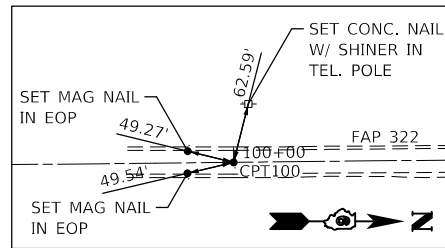
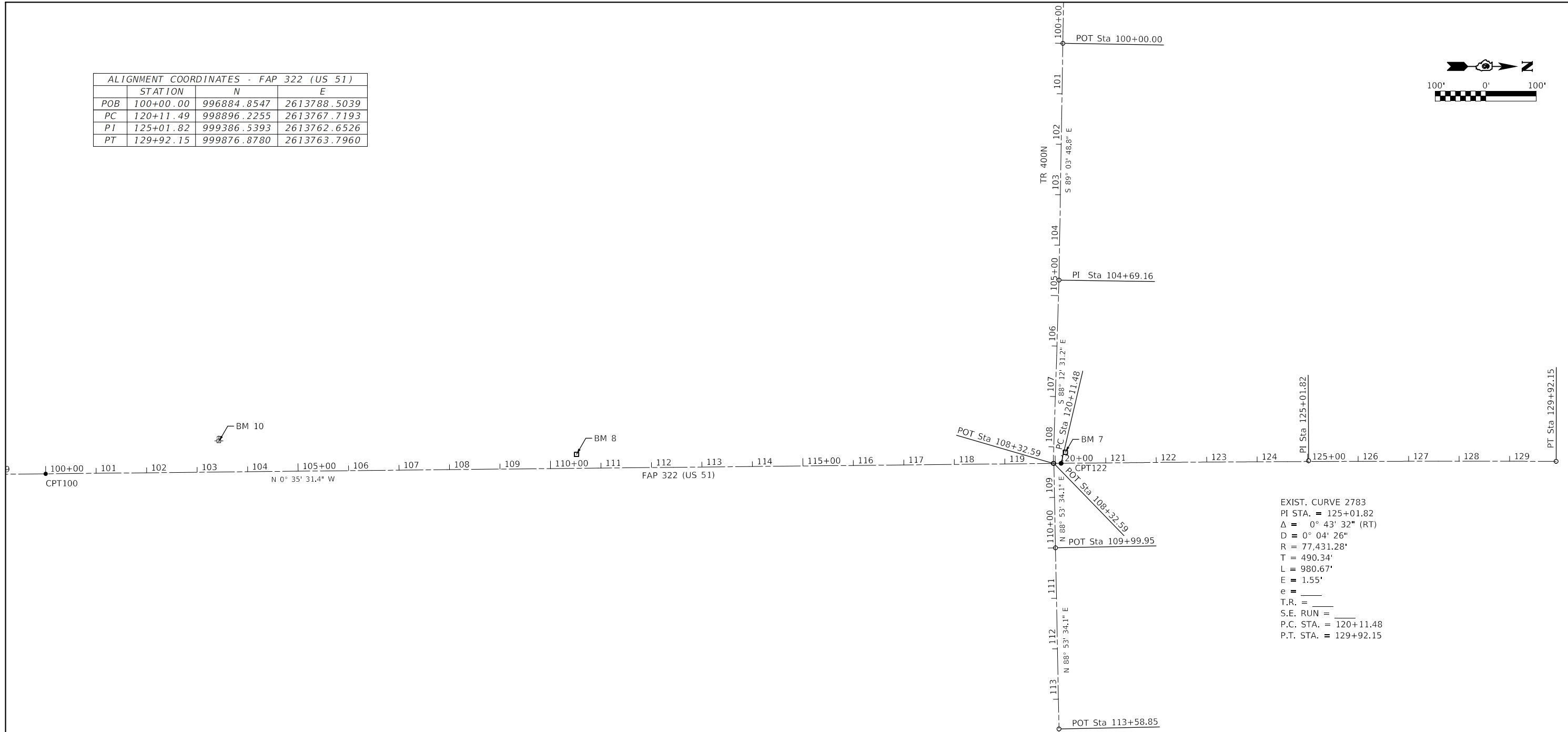
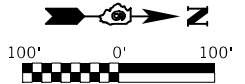
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

SCHEDULES OF QUANTITIES
US 51

SCALE: SHEET OF SHEETS STA. TO STA.

F.A.P. RTE. SECTION COUNTY TOTAL SHEETS SHEET NO.
322 43 CR CHRISTIAN 33 11
CONTRACT NO. 72C83
ILLINOIS FED. AID PROJECT

ALIGNMENT COORDINATES - FAP 322 (US 51)			
	STATION	N	E
POB	100+00.00	996884.8547	2613788.5039
PC	120+11.49	998896.2255	2613767.7193
PI	125+01.82	999386.5393	2613762.6526
PT	129+92.15	999876.8780	2613763.7960



CONTROL POINT #100

SET MAG NAIL IN C ROADWAY

STA. 100+00.00, C
N 996884.8547
E 2613788.5040

BENCHMARK 7

ELEV. 679.432

CHISELED "□" ON CENTER OF WEST CONC. HEADWALL, NORTHWEST QUAD OF US 51 AND TR 400N, 1.08 MILES NORTH OF IL RTE 16

BENCHMARK 8

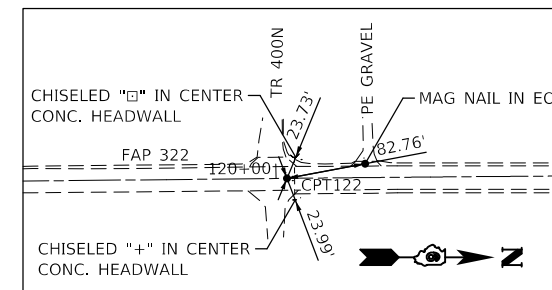
ELEV. 655.827

CHISELED "□" ON SOUTH END WEST CONC. HEADWALL 12'X3' BOX CULVERT UNDER US 51, 0.9 MILES NORTH OF IL RTE 16

BENCHMARK 10

ELEV. 664.59

RAILROAD SPIKE IN EAST FACE OF POWER POLE W/GUY WIRE, 3RD POWER POLE SOUTH OF BOX CULVERT ON WEST SIDE OF US 51, \pm STA. 103+43.6, 60.5' LT.



CONTROL POINT #122

SET MAG NAIL IN C ROADWAY

STA. 120+11.48, C
N 998896.2260
E 2613767.7190

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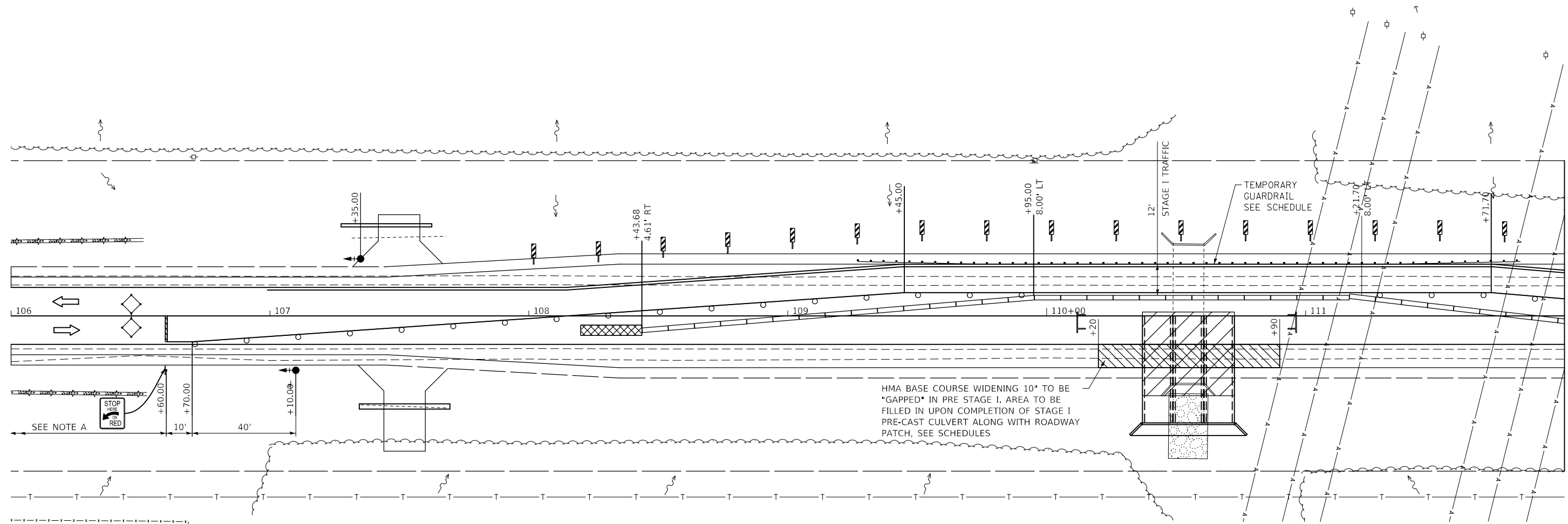
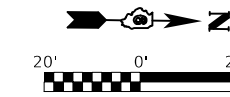
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PLOT SCALE = 200.000000' / in.	DRAWN - CFC	REVISED -
PLOT DATE = 8/15/2018	CHECKED - GLS	REVISED -
	DATE -	REVISED -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**ALIGNMENT, TIES & BENCHMARKS
US 51**

SCALE: SHEET OF SHEETS STA. TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
322	43 CR	CHRISTIAN	33	12
CONTRACT NO. 72C83				
ILLINOIS FED. AID PROJECT				



MATCHLINE STA 112+00.00

**SEQUENCE OF CONSTRUCTION
PRE-STAGE I**

1. CONSTRUCT HMA BASE COURSE WIDENING AND DITCH WORK ON THE LEFT AND RIGHT SIDE AS SHOWN ON THE TEMPORARY TYPICAL SECTION FOR STAGE CONSTRUCTION UTILIZING TCP STD 701326.

STAGE I

1. INSTALL STAGE I TRAFFIC CONTROL AND PROTECTION AS DETAILED IN THE PLANS AND ACCORDING TO STANDARD 701321. ALSO INSTALL TEMPORARY GUARDRAIL.
2. REMOVE CONFLICTING PAVEMENT MARKINGS, INSTALL TEMPORARY CONCRETE BARRIER, TEMPORARY IMPACT ATTENUATORS, AND TEMPORARY PAVEMENT MARKINGS.
3. SHIFT TRAFFIC TO STAGE I (SOUTHBOUND) LANE.
4. COMPLETE STAGE I STRUCTURAL, INSTREAM WORK AND ROADWAY PATCH.

NOTE A

REMAINDER OF SIGNING & DEVICES ACCORDING TO STANDARD 701321. ALL SIGNING AND PAVEMENT MARKING SHOWN OR ACCORDING TO STANDARD 701321 IS INCLUDED IN THE COST OF TRAFFIC CONTROL AND PROTECTION STANDARD 701321.

REMOVE/COVER ANY EXISTING CONFLICTING PAVEMENT MARKING. REFER TO STANDARD 701321 FOR ANY TRAFFIC CONTROL ITEMS NOT SHOWN.

LEGEND

- WORK AREA
- SIGN (SEE STD 701321)
- DRUM WITH STEADY BURNING LIGHT
- TRAFFIC SIGNAL
- TEMPORARY CONCRETE BARRIER
- IMPACT ATTENUATOR, TEMPORARY (NON-DIRECTIVE)
- TYPE III BARRICADE W/ LIGHTS
- DETECTOR LOOPS
- DIRECTION OF TRAFFIC



USER NAME = cconnor	DESIGNED - MCB	REVISED -
PLOT SCALE = 40,000,000' / in.	DRAWN - CFC	REVISED -
PLOT DATE = 8/15/2018	CHECKED - MCB	REVISED -
	DATE -	REVISED -

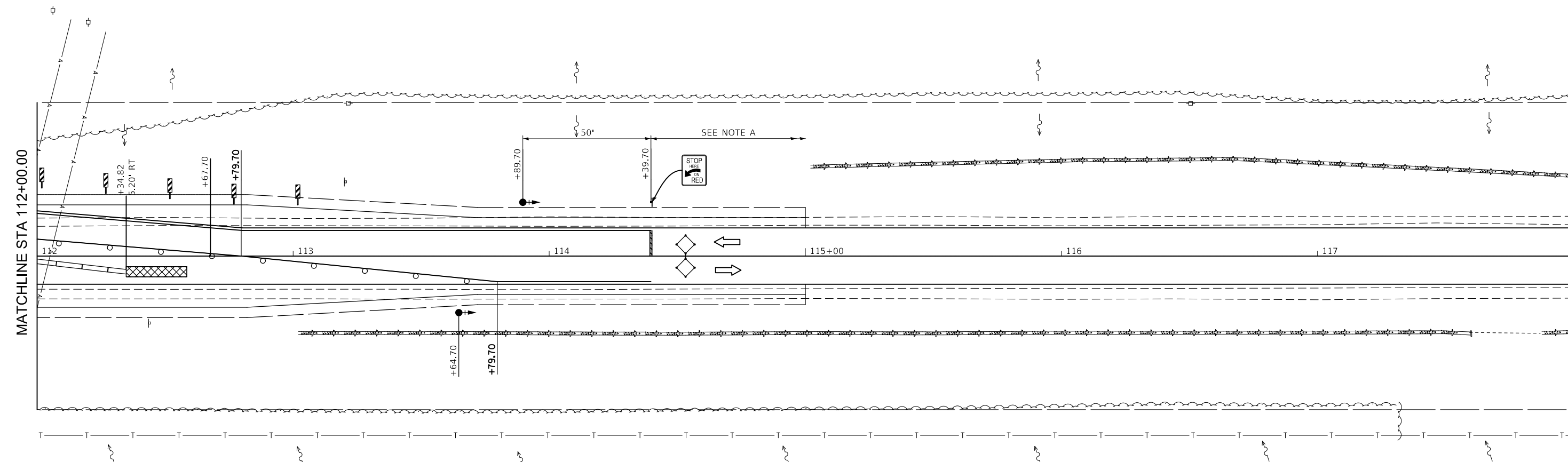
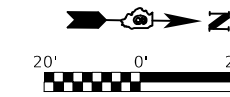
**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

STAGE I TRAFFIC CONTROL US 51			
SCALE:	SHEET	OF SHEETS	STA. TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
322	43 CR	CHRISTIAN	33	13
CONTRACT NO. 72C83				
ILLINOIS FED. AID PROJECT				

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FEHR GRAHAM PROJECT NUMBER: 17-430



SEQUENCE OF CONSTRUCTION
PRE-STAGE I

1. CONSTRUCT HMA BASE COURSE WIDENING AND DITCH WORK ON THE LEFT AND RIGHT SIDE AS SHOWN ON THE TEMPORARY TYPICAL SECTION FOR STAGE CONSTRUCTION UTILIZING TCP STD 701326.

STAGE I

1. INSTALL STAGE I TRAFFIC CONTROL AND PROTECTION AS DETAILED IN THE PLANS AND ACCORDING TO STANDARD 701321.
2. REMOVE CONFLICTING PAVEMENT MARKINGS, INSTALL TEMPORARY CONCRETE BARRIER, TEMPORARY IMPACT ATTENUATORS, AND TEMPORARY PAVEMENT MARKINGS.
3. SHIFT TRAFFIC TO STAGE I (SOUTHBOUND) LANE.
4. COMPLETE STAGE I STRUCTURAL, INSTREAM WORK AND ROADWAY PATCH.

NOTE A

REMAINDER OF SIGNING & DEVICES ACCORDING TO STANDARD 701321. ALL SIGNING AND PAVEMENT MARKING SHOWN OR ACCORDING TO STANDARD 701321 IS INCLUDED IN THE COST OF TRAFFIC CONTROL AND PROTECTION STANDARD 701321.

REMOVE/COVER ANY EXISTING CONFLICTING PAVEMENT MARKING. REFER TO STANDARD 701321 FOR ANY TRAFFIC CONTROL ITEMS NOT SHOWN.

LEGEND

- WORK AREA
- SIGN (SEE STD 701321)
- DRUM WITH STEADY BURNING LIGHT
- TRAFFIC SIGNAL
- TEMPORARY CONCRETE BARRIER
- IMPACT ATTENUATOR, TEMPORARY (NON-DIRECTIVE)
- TYPE III BARRICADE W/ LIGHTS
- DETECTOR LOOPS
- DIRECTION OF TRAFFIC

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 FEHR GRAHAM PROJECT NUMBER: 17-430



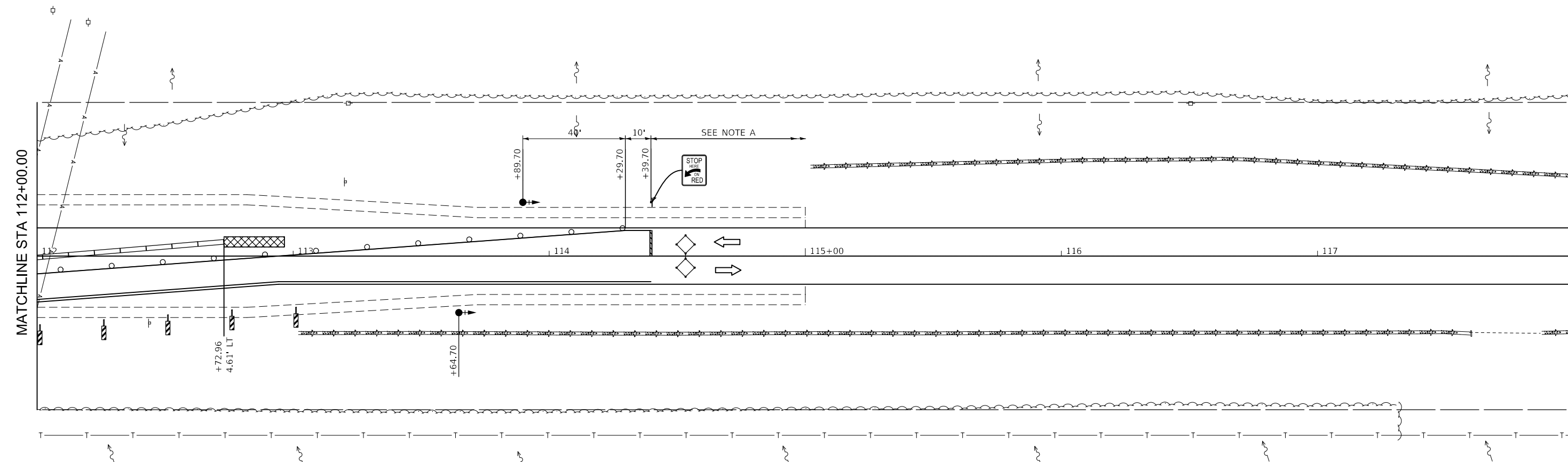
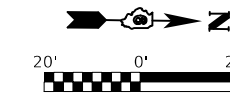
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PLOT DATE = 8/15/2018	CHECKED - MCB	REVISED -
	DATE -	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

STAGE I TRAFFIC CONTROL
US 51

SCALE: SHEET OF SHEETS STA. TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
322	43 CR	CHRISTIAN	33	14
CONTRACT NO. 72C83				
ILLINOIS FED. AID PROJECT				



**SEQUENCE OF CONSTRUCTION
STAGE II**

1. RELOCATE TEMPORARY CONCRETE BARRIER AND TEMPORARY IMPACT ATTENUATORS, REMOVE CONFLICTING PAVEMENT MARKINGS AND INSTALL TEMPORARY PAVEMENT MARKINGS, PLACE TRAFFIC IN STAGE II LANE.
2. SHIFT TRAFFIC TO STAGE II (NORTHBOUND) LANE.
3. REMOVE STAGE II PORTION OF THE PAVEMENT.
4. COMPLETE STAGE II STRUCTURAL, INSTREAM WORK AND ROADWAY PATCH.

POST - STAGE II

1. REMOVE STAGE II TRAFFIC CONTROL.
2. COMPLETE MILLING AND RESURFACING ACCORDING TO PROPOSED TYPICAL SECTIONS UTILIZING TCP STD 701326.

NOTE A

REMAINDER OF SIGNING & DEVICES ACCORDING TO STANDARD 701321. ALL SIGNING AND PAVEMENT MARKING SHOWN OR ACCORDING TO STANDARD 701321 IS INCLUDED IN THE COST OF TRAFFIC CONTROL AND PROTECTION STANDARD 701321.

REMOVE/COVER ANY EXISTING CONFLICTING PAVEMENT MARKING. REFER TO STANDARD 701321 FOR ANY TRAFFIC CONTROL ITEMS NOT SHOWN.

LEGEND

- WORK AREA
- SIGN (SEE STD 701321)
- DRUM WITH STEADY BURNING LIGHT
- TRAFFIC SIGNAL
- TEMPORARY CONCRETE BARRIER
- IMPACT ATTENUATOR, TEMPORARY (NON-DIRECTIVE)
- TYPE III BARRICADE W/ LIGHTS
- DETECTOR LOOPS
- DIRECTION OF TRAFFIC

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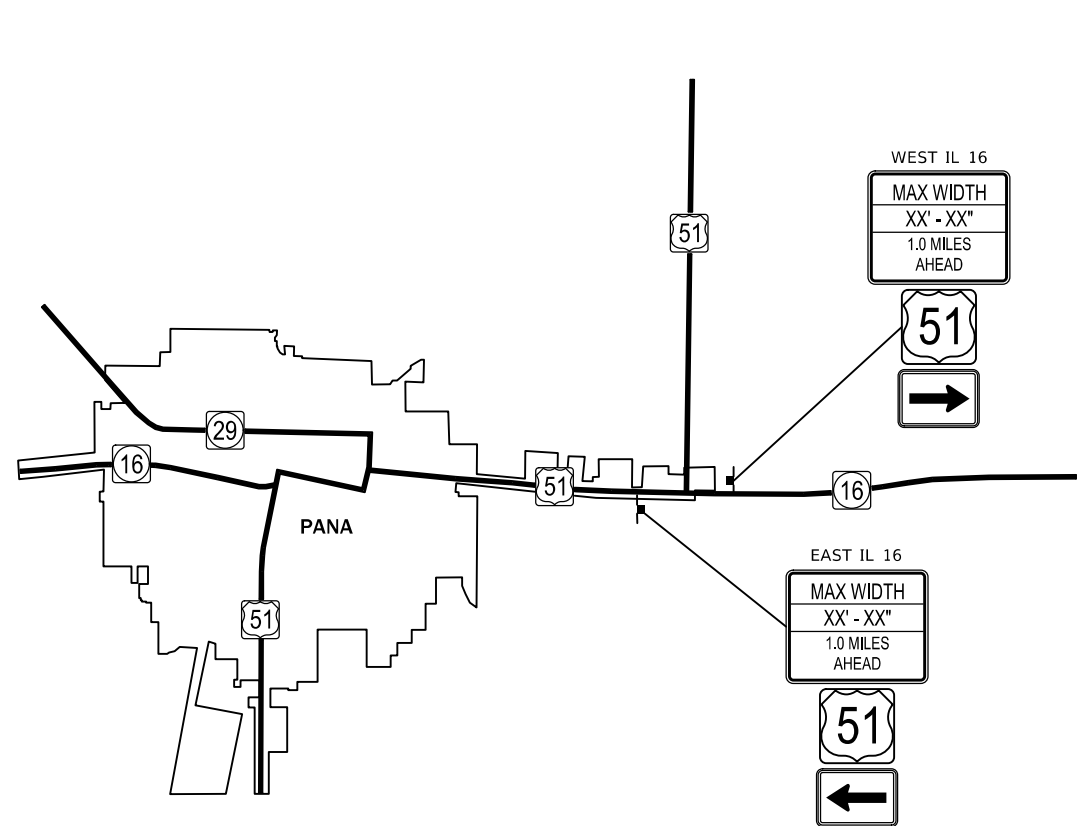
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PLOT DATE = 8/15/2018	CHECKED - MCB	REVISED -
	DATE -	REVISED -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

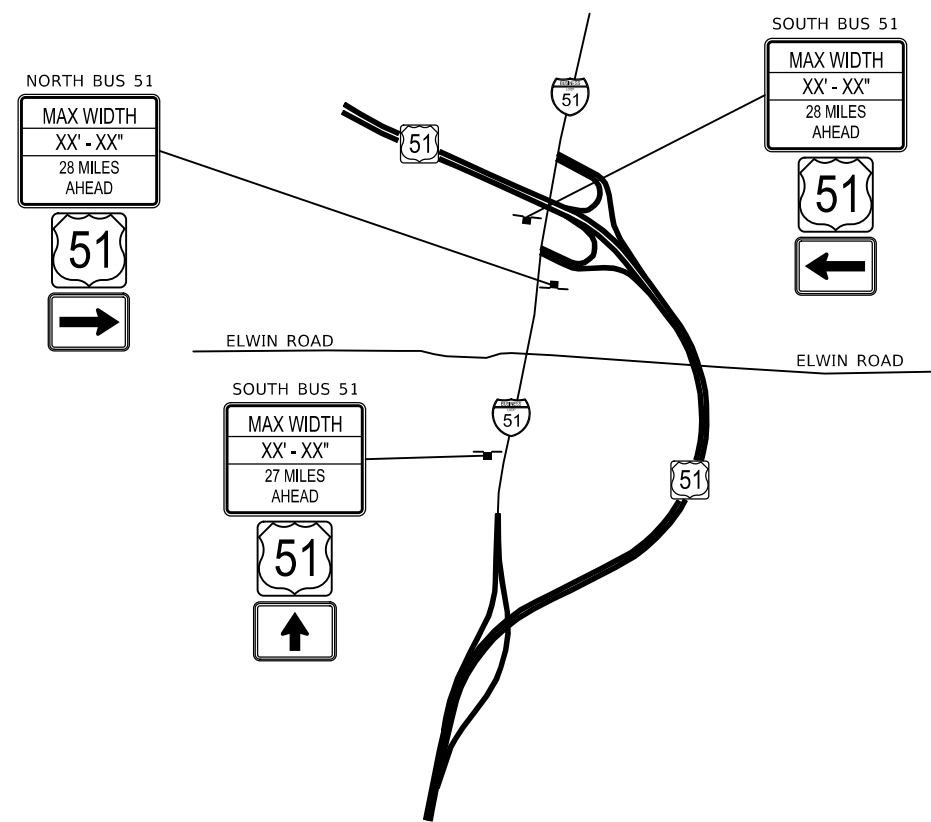
**STAGE II TRAFFIC CONTROL
US 51**

SCALE: SHEET OF SHEETS STA. TO STA.

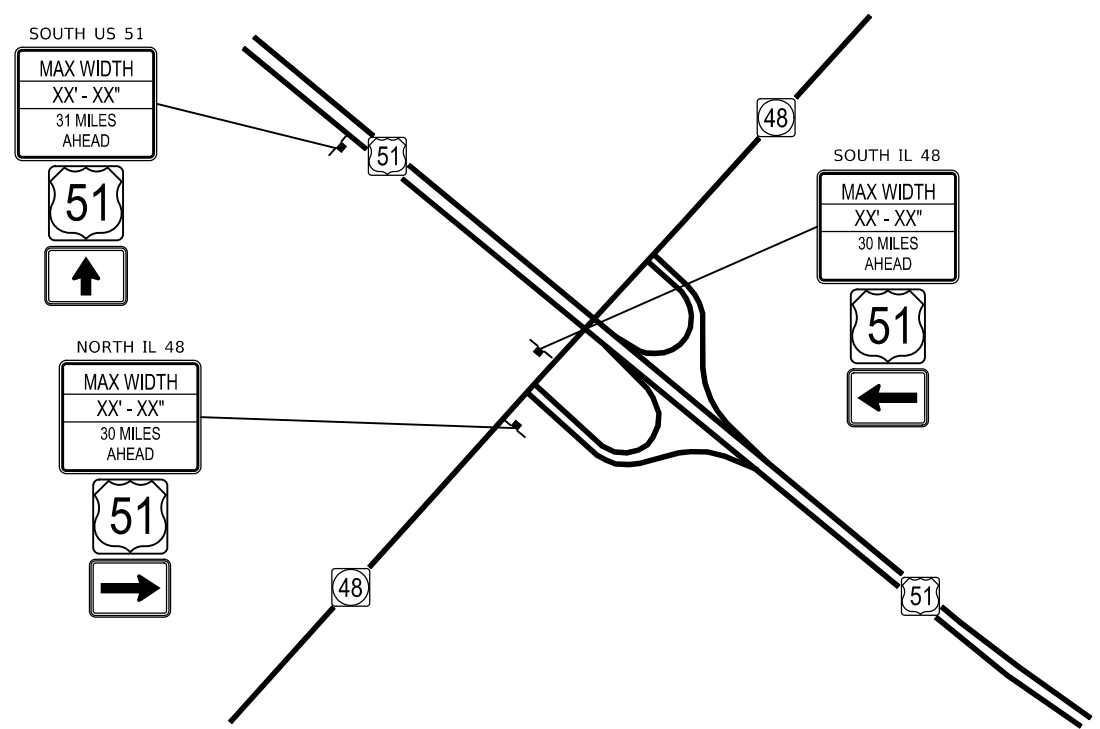
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CONTRACT NO. 72C83				
ILLINOIS FED. AID PROJECT				



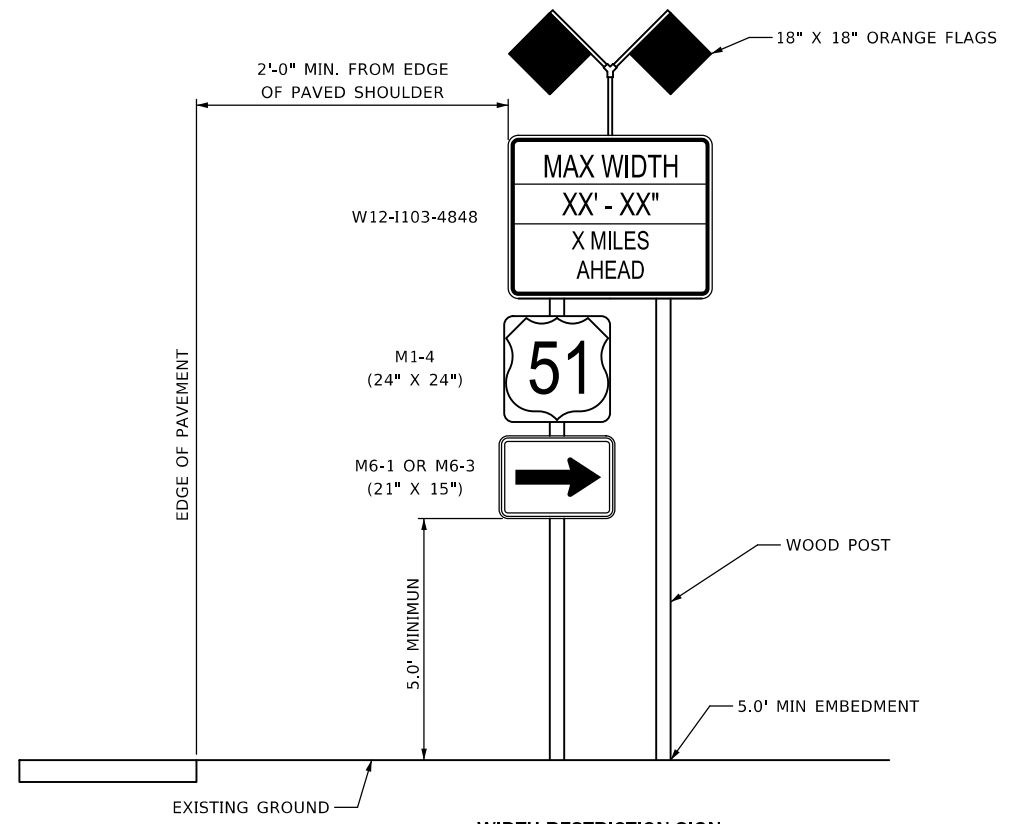
LOCATION 1
US 51/IL 16
CHRISTIAN COUNTY



LOCATION 2
US 51/ELWIN ROAD AND US 51/BUS 51
MACON COUNTY



LOCATION 3
US 51/IL 48
MACON COUNTY



WIDTH RESTRICTION SIGN
 XX' - XX" WIDTH AND X MILES ARE VARIABLE

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FEHR GRAHAM
 ENGINEERING & ENVIRONMENTAL
 ILLINOIS DESIGN FIRM NO. 184-003525

USER NAME = cconnor	DESIGNED -	REVISED -
PLOT SCALE = 40.0000 ' / in.	DRAWN -	REVISED -
PLOT DATE = 8/15/2018	CHECKED -	REVISED -
	DATE -	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

SIGNING DETAIL			
WIDTH RESTRICTION SIGN PLACEMENT			
SCALE:	SHEET	OF SHEETS	STA. TO STA.

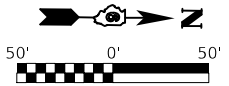
F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
322	43 CR	CHRISTIAN	33	17
CONTRACT NO. 72C83				
ILLINOIS FED. AID PROJECT				

FEHR GRAHAM PROJECT NUMBER: 17-430

EXISTING STRUCTURE
 SN 011-7036 AT STA 110+54.74
 12' SPAN X 3' RISE SINGLE BOX CULVERT
 55.2' LONG, NO SKEW. [TBR]

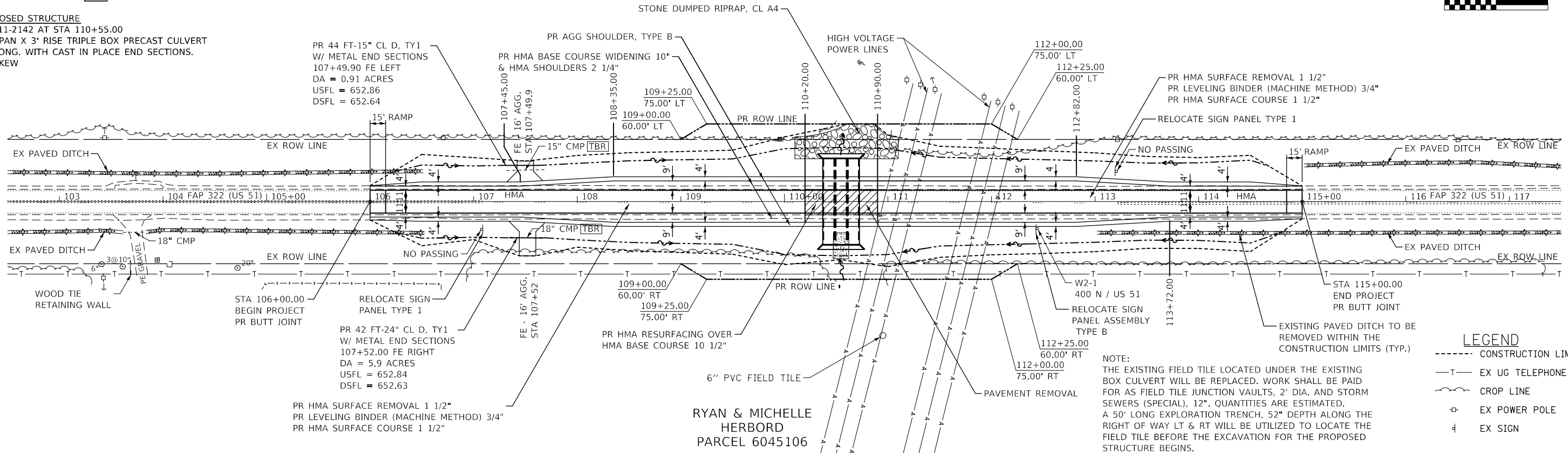
PROPOSED STRUCTURE
 SN 011-2142 AT STA 110+55.00
 10' SPAN X 3' RISE TRIPLE BOX PRECAST CULVERT
 84' LONG, WITH CAST IN PLACE END SECTIONS.
 NO SKEW

GABRIEL FARMS, INC.
 PARCEL 6045105



DATE	
BY	
PLAN	
NO.	
DATE	
BY	
PROFILE	
NO.	

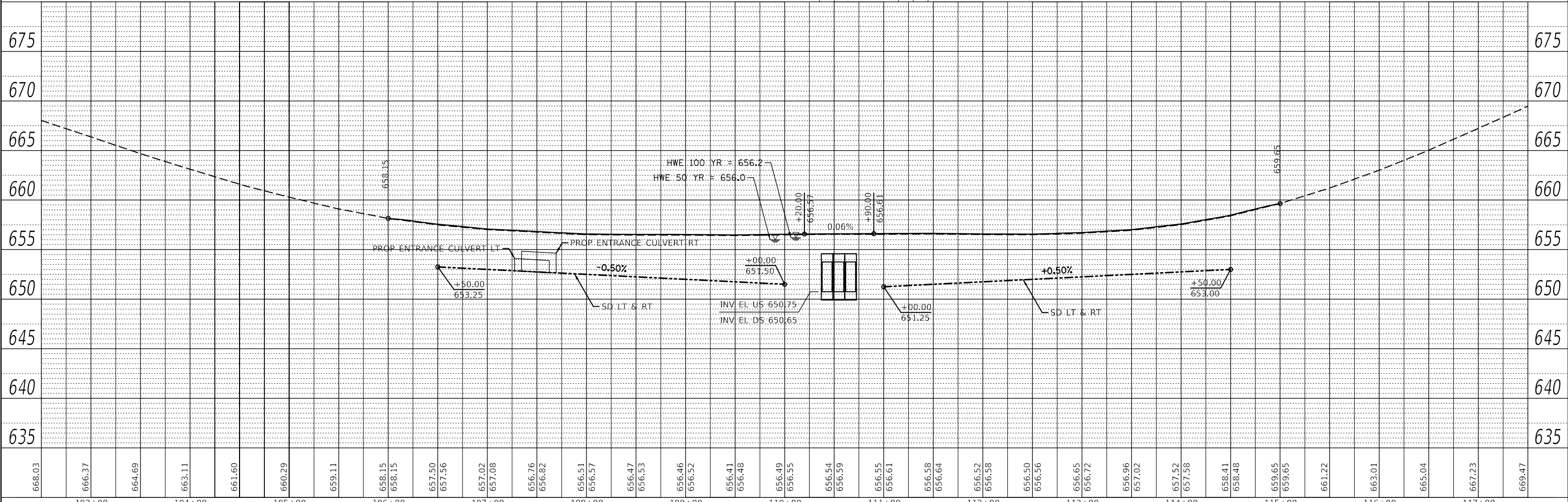
DATE	
BY	
PROFILE	
NO.	
DATE	
BY	
PLAN	
NO.	



NOTE:
 THE EXISTING FIELD TILE LOCATED UNDER THE EXISTING BOX CULVERT WILL BE REPLACED. WORK SHALL BE PAID FOR AS FIELD TILE JUNCTION VAULTS, 2' DIA. AND STORM SEWERS (SPECIAL), 12\".

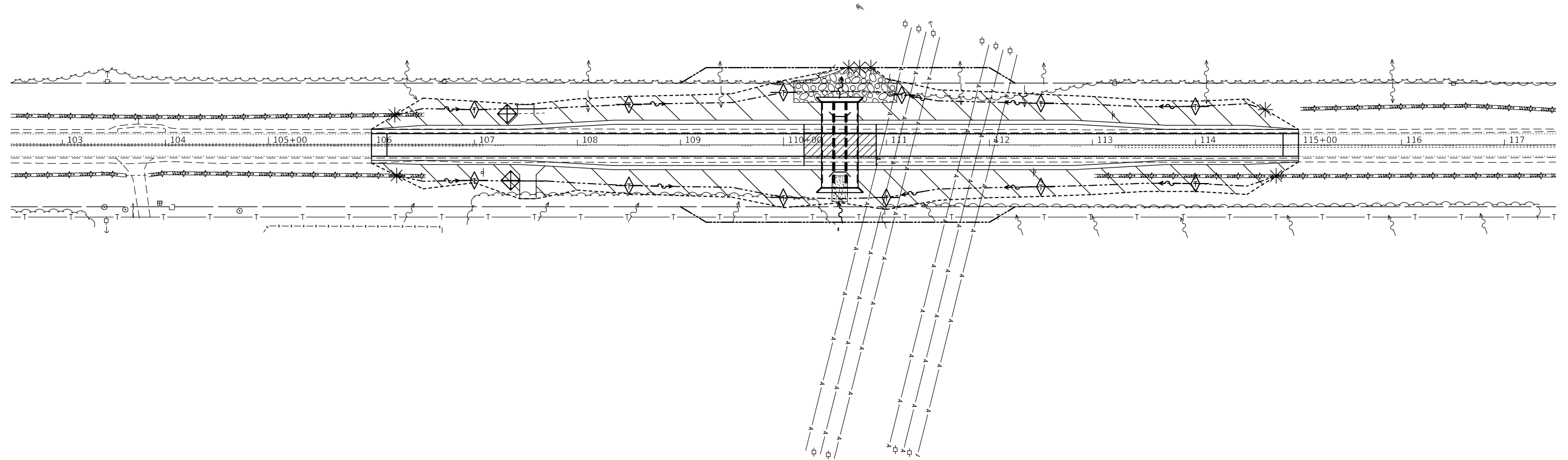
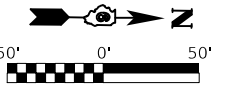
LEGEND

- CONSTRUCTION LIMITS
- T- EX UG TELEPHONE LINE
- ~ CROP LINE
- EX POWER POLE
- ⊥ EX SIGN








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FEHR GRAHAM ENGINEERING & ENVIRONMENTAL ILLINOIS DESIGN FIRM NO. 184-003525 ILLINOIS DESIGN FIRM NO. 184-003525 Fehr Graham Project Number: 17-430	USER NAME = cconnor DESIGNED - MCB DRAWN - CFC CHECKED - GLS DATE -	REVISED - REVISED - REVISED - REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	PLAN & PROFILE US 51	F.A.P. RTE. 322 SECTION 43 CR COUNTY CHRISTIAN CONTRACT NO. 72C83	TOTAL SHEETS 33 SHEET NO. 18
	PLOT SCALE = 100,000,000' / in. PLOT DATE = 8/15/2018	SCALE: SHEET OF SHEETS STA. TO STA.	ILLINOIS FED. AID PROJECT			



LEGEND

-  TEMPORARY EROSION CONTROL SEEDING
-  INLET AND PIPE PROTECTION
-  TEMPORARY DITCH CHECKS
-  AGGREGATE EROSION CONTROL
-  STONE DUMPED RIPRAP, CLASS A4

MODEL: Default
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 FEHR GRAHAM PROJECT NUMBER: 17-430

FEHR GRAHAM
 ENGINEERING & ENVIRONMENTAL
 ILLINOIS DESIGN FIRM NO. 184-003525

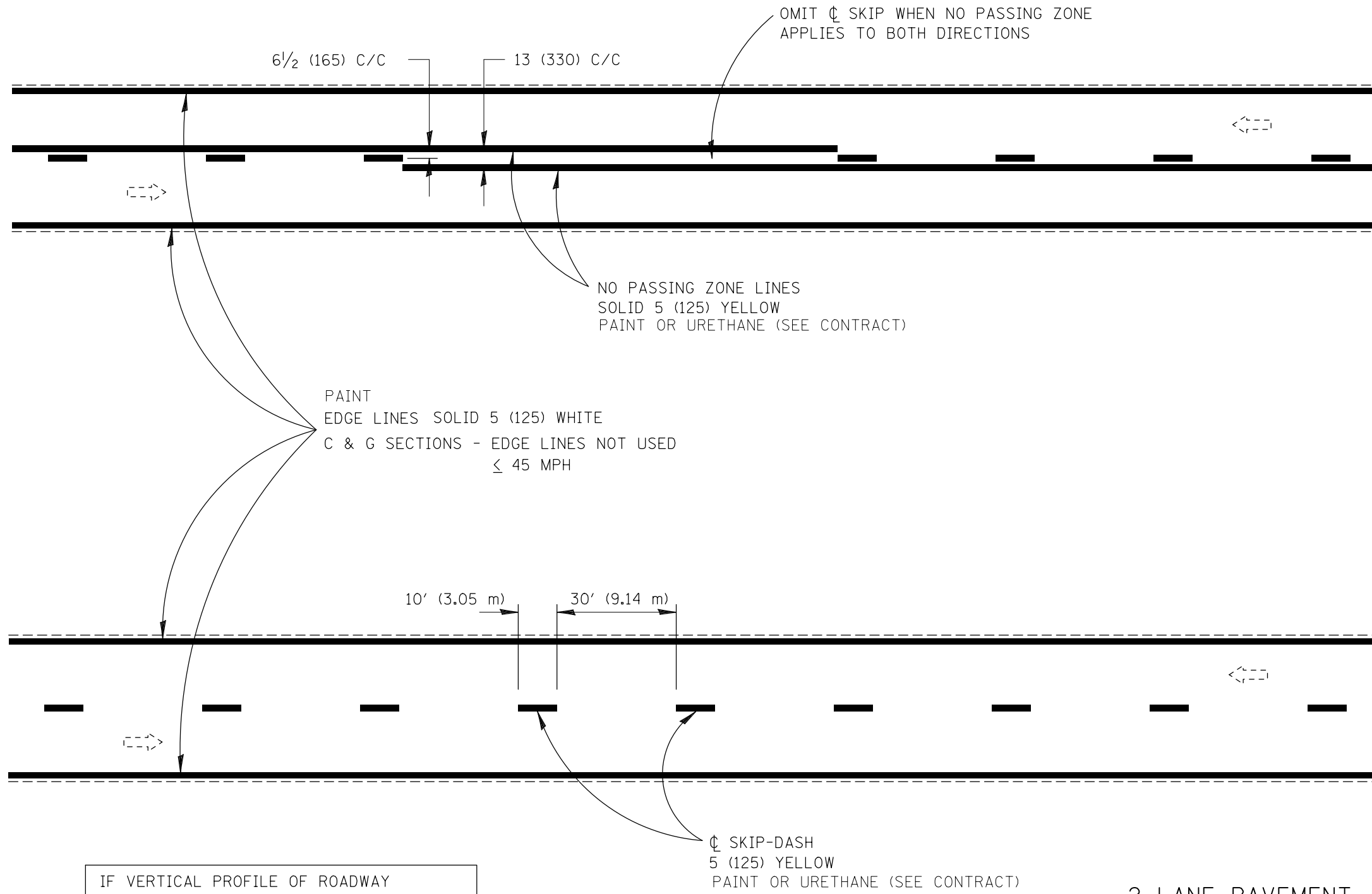
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PLOT SCALE = 100.000000' / in.	DRAWN - CFC	REVISED -
PLOT DATE = 8/15/2018	CHECKED - GLS	REVISED -
	DATE -	REVISED -

**STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION**

**EROSION CONTROL PLAN
 US 51**

SCALE: SHEET OF SHEETS STA. TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
322	43 CR	CHRISTIAN	33	19
CONTRACT NO.				
ILLINOIS FED. AID PROJECT				



PAINT
 EDGE LINES SOLID 5 (125) WHITE
 C & G SECTIONS - EDGE LINES NOT USED
 ≤ 45 MPH

SKIP-DASH
 5 (125) YELLOW
 PAINT OR URETHANE (SEE CONTRACT)

IF VERTICAL PROFILE OF ROADWAY IS CHANGED DURING CONSTRUCTION, "NO PASSING ZONES" ARE TO BE FIELD VERIFIED BY THE BUREAU OF OPERATIONS. THE RESIDENT ENGINEER SHALL NOTIFY THE BUREAU OF OPERATIONS 14 DAYS PRIOR TO PERMANENT PAVEMENT MARKINGS.

2 LANE PAVEMENT

MODEL: Default
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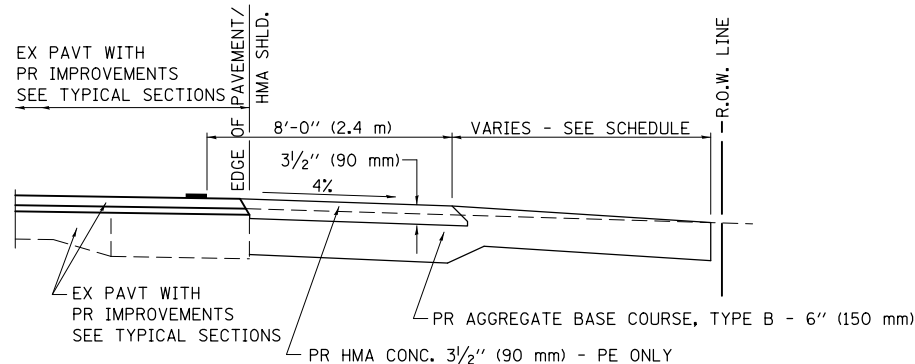


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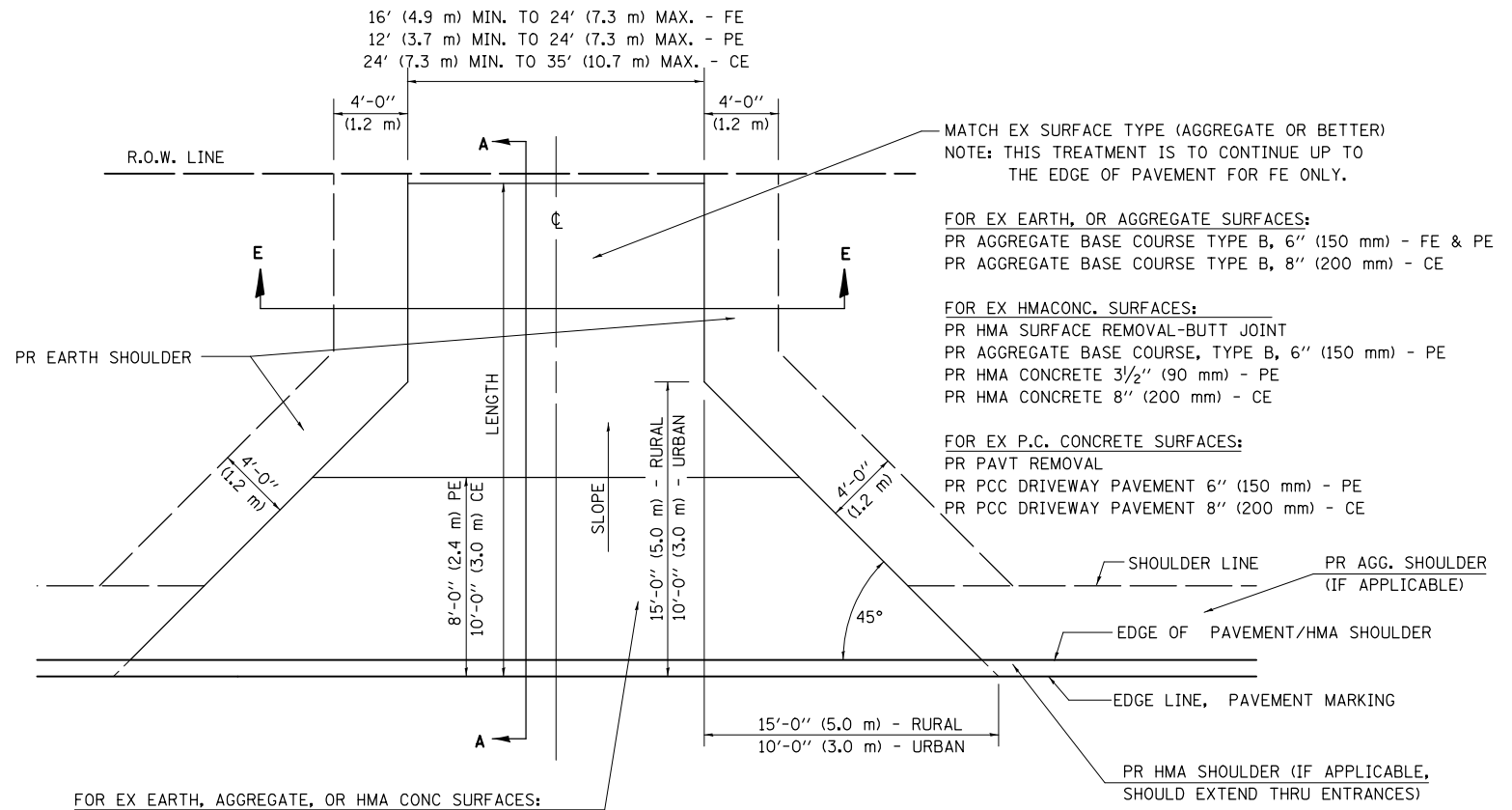
STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION

MISCELLANEOUS DETAILS PAVEMENT MARKING				
SCALE:	SHEET	OF	SHEETS	STA. TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
322	43 CR	CHRISTIAN	33	20
CONTRACT NO. 72C83				
ILLINOIS FED. AID PROJECT				



SECTION A-A FOR EX EARTH/AGGREGATE FE & PE



FOR EX EARTH, AGGREGATE, OR HMA CONC SURFACES:
 PR HMA SURFACE REMOVAL-BUTT JOINT (IF APPLICABLE)
 PR AGGREGATE BASE COURSE TYPE B 6" (150 mm) - FE
 PR AGGREGATE BASE COURSE TYPE B, 6" (150 mm) &
 PR HMA CONCRETE 3 1/2" (90 mm) - PE
 PR HMA CONCRETE 8" (200 mm) - CE

FOR P.C. CONCRETE SURFACES:
 PR PAVT REMOVAL
 PR PCC DRIVEWAY PAVT 6" (150 mm) - PE
 PR PCC DRIVEWAY PAVT 8" (200 mm) - CE

MATCH EX SURFACE TYPE (AGGREGATE OR BETTER)
 NOTE: THIS TREATMENT IS TO CONTINUE UP TO THE EDGE OF PAVEMENT FOR FE ONLY.

FOR EX EARTH, OR AGGREGATE SURFACES:
 PR AGGREGATE BASE COURSE TYPE B, 6" (150 mm) - FE & PE
 PR AGGREGATE BASE COURSE TYPE B, 8" (200 mm) - CE

FOR EX HMA/CONC. SURFACES:
 PR HMA SURFACE REMOVAL-BUTT JOINT
 PR AGGREGATE BASE COURSE, TYPE B, 6" (150 mm) - PE
 PR HMA CONCRETE 3 1/2" (90 mm) - PE
 PR HMA CONCRETE 8" (200 mm) - CE

FOR EX P.C. CONCRETE SURFACES:
 PR PAVT REMOVAL
 PR PCC DRIVEWAY PAVEMENT 6" (150 mm) - PE
 PR PCC DRIVEWAY PAVEMENT 8" (200 mm) - CE

GENERAL NOTES:

THE RESIDENT ENGINEER WILL DETERMINE THE EXACT TYPE OF IMPROVEMENT TO BE COMPLETED FOR ALL ENTRANCES, SIDEROADS AND MAILBOX TURNOUTS ON THIS PROJECT.

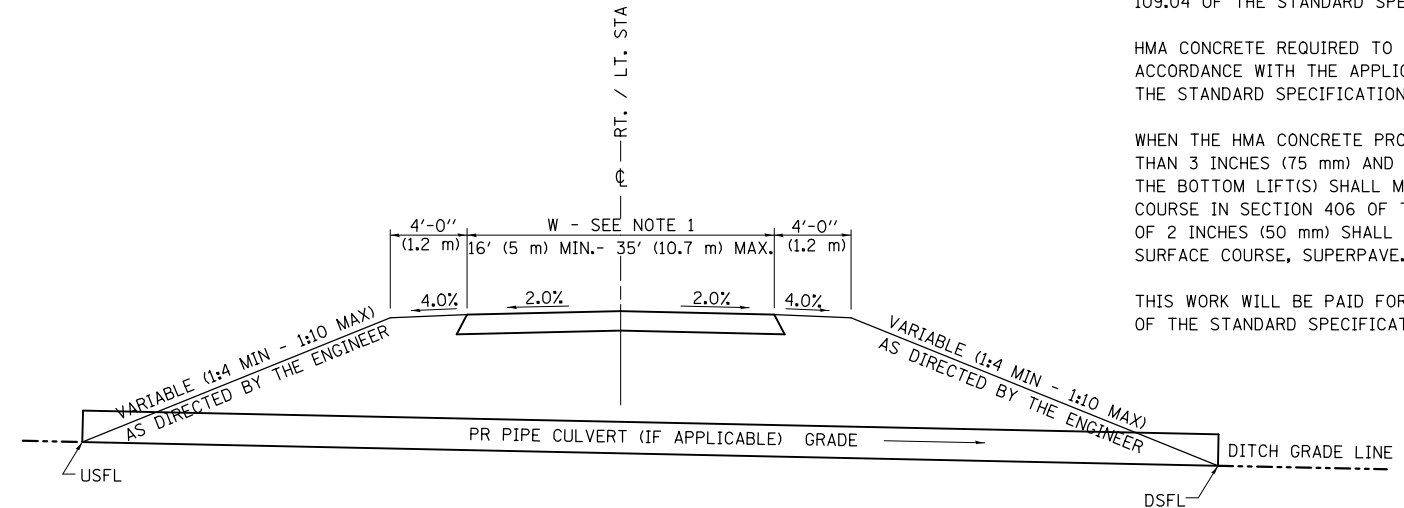
THE PLAN DETAILS AND SCHEDULES SHOULD BE USED AS A GUIDE FOR THE ENGINEER TO IMPLEMENT THE FINAL DESIGN. THE ENGINEER MAY DECIDE TO SALVAGE PORTIONS OF THE EXISTING ENTRANCE PAVEMENT STRUCTURE; THEREFORE, REDUCING PAY ITEM QUANTITIES. NO ADDITIONAL PAYMENT WILL BE ALLOWED FOR THIS REDUCTION IN QUANTITIES.

ANY WORK THE ENGINEER REQUIRES WHICH IS NOT COVERED BY A PAY ITEM CONTAINED IN THE PLANS WILL BE PAID FOR IN ACCORDANCE WITH ARTICLE 109.04 OF THE STANDARD SPECIFICATIONS.

HMA CONCRETE REQUIRED TO CONSTRUCT THE ENTRANCES SHALL BE IN ACCORDANCE WITH THE APPLICABLE PORTIONS OF SECTION 406 AND 408 OF THE STANDARD SPECIFICATIONS AND AS DIRECTED BY THE ENGINEER.

WHEN THE HMA CONCRETE PROPOSED FOR THE IMPROVEMENT IS THICKER THAN 3 INCHES (75 mm) AND REQUIRE PLACEMENT IN MORE THAN ONE LIFT. THE BOTTOM LIFT(S) SHALL MEET THE REQUIREMENTS OF HMA BASE COURSE IN SECTION 406 OF THE STANDARD SPECIFICATIONS AND THE TOP LIFT OF 2 INCHES (50 mm) SHALL MEET THE REQUIREMENTS OF HMA CONCRETE SURFACE COURSE, SUPERPAVE.

THIS WORK WILL BE PAID FOR IN ACCORDANCE WITH SECTIONS 351, 358, 408, 423 AND 440 OF THE STANDARD SPECIFICATIONS.



SECTION E - E ENTRANCE TYPICAL SECTION

NOTE 1: WIDTH OF ENTRANCE MAY BE INCREASED AT THE PIPE CULVERT DUE TO THE DITCHLINE BEING LOCATED IN THE ENTRANCE FLARE AREA.

ALL DIMENSIONS ARE IN INCHES (MILLIMETERS) UNLESS OTHERWISE SHOWN.

MODEL: Default
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FEHR GRAHAM
 ENGINEERING & ENVIRONMENTAL
 ILLINOIS DESIGN FIRM NO. 184-003525

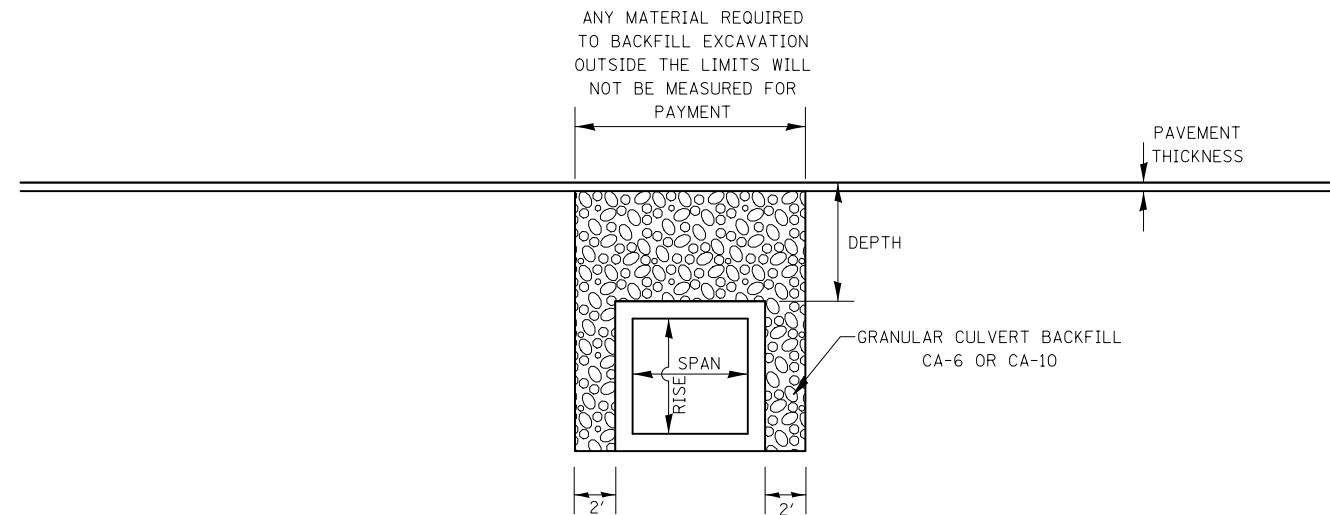
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	DATE -	REVISED -

**STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION**

**MISCELLANEOUS DETAILS
 FIELD ENTRANCE**

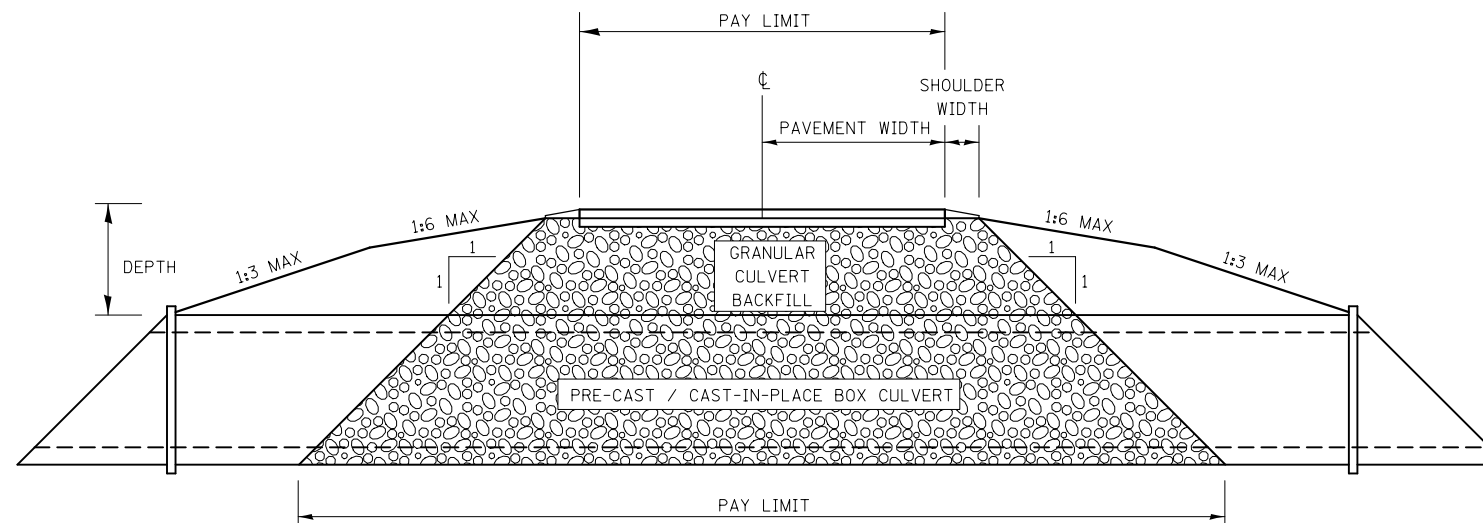
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F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
322	43 CR	CHRISTIAN	33	21
CONTRACT NO. 72C83				
ILLINOIS FED. AID PROJECT				



- DEPTH OF FILL \geq 2 FT & \leq 8 FT
- DEPTH OF FILL \leq SPAN OF LARGEST BOX CONFIGURATION

**PROFILE GRANULAR BACKFILL DETAIL
FOR EXISTING ALIGNMENTS & CONSTRUCTION**



NOTE:
SEE SHEET 24 FOR ADDITIONAL DETAILS.

**CROSS SECTION GRANULAR BACKFILL DETAIL
FOR EXISTING ALIGNMENTS & CONSTRUCTION**

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ENGINEERING & ENVIRONMENTAL
ILLINOIS DESIGN FIRM NO. 184-003525

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**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

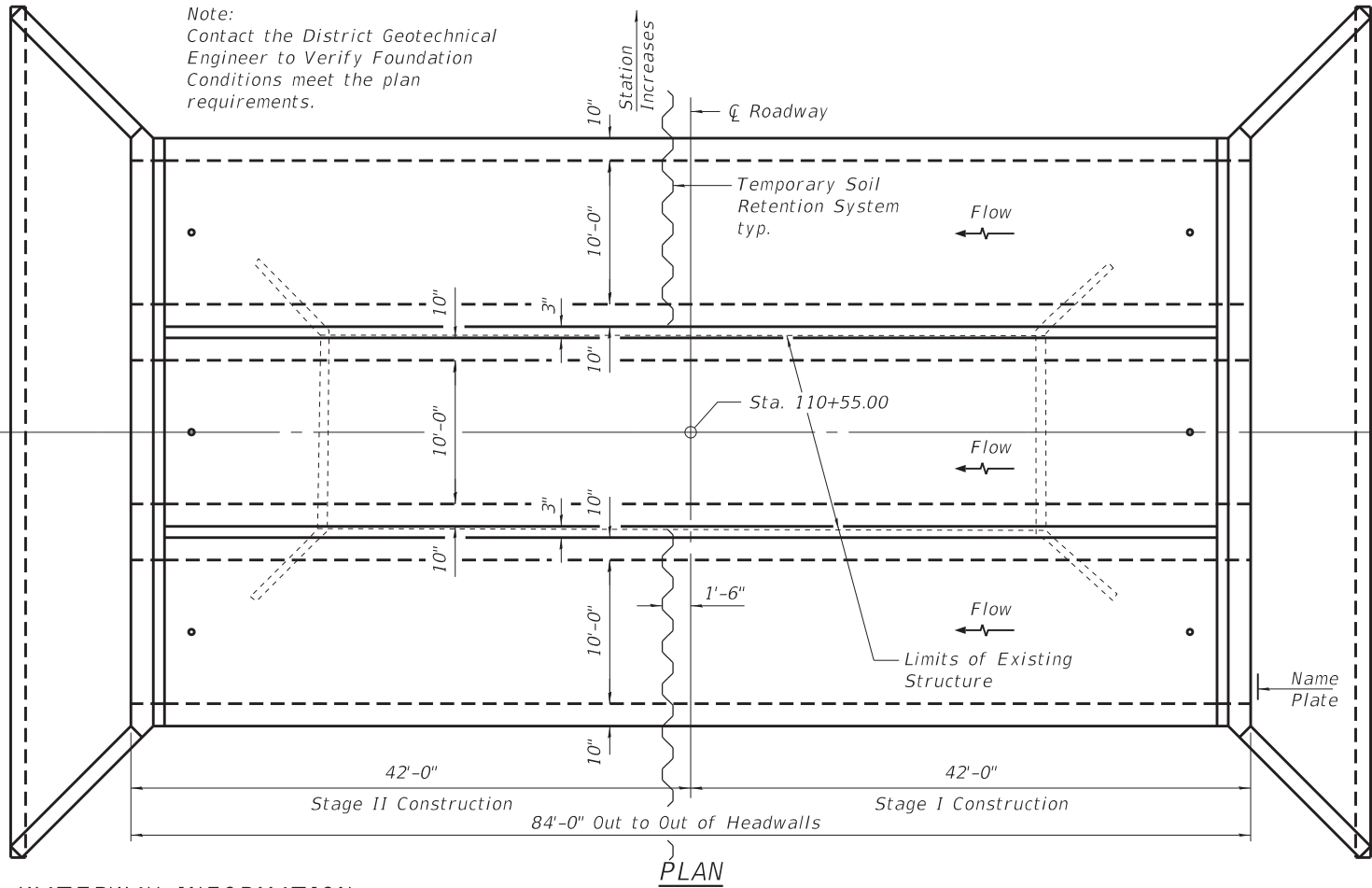
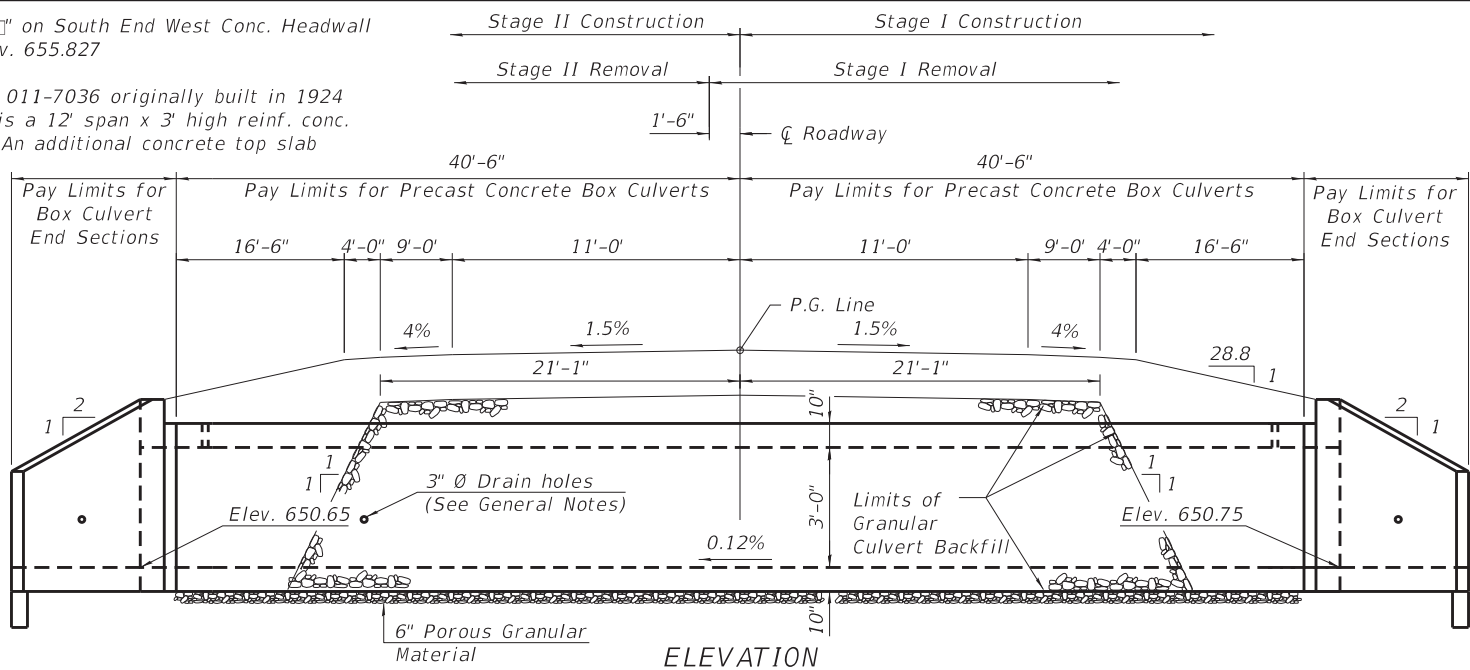
**MISCELLANEOUS DETAILS
GRANULAR BACKFILL DETAIL**

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322	43 CR	CHRISTIAN	33	22
CONTRACT NO. 72C83				
ILLINOIS FED. AID PROJECT				

Benchmark: Chiseled "□" on South End West Conc. Headwall
12'x3' Box Culvert, Elev. 655.827

Existing Structure: SN 011-7036 originally built in 1924 and extended in 1952 is a 12' span x 3' high reinf. conc. box culvert 55.2' long. An additional concrete top slab was added in 2009.



WATERWAY INFORMATION

Drainage Area = 0.4 sq. mi. Low Grade Elev. = 656.4 @ Sta. 109+50

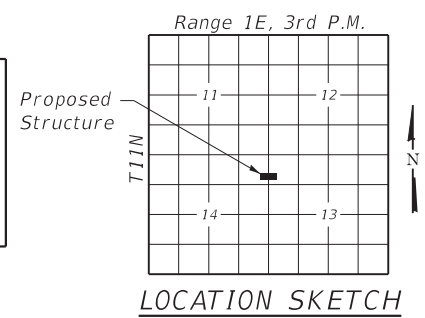
Flood	Freq. Yr.	Q C.F.S.	Opening Sq. Ft.		Nat. H.W.E.	Head - Ft.		Headwater El.	
			Exist.	Prop.		Exist.	Prop.	Exist.	Prop.
Design	10	265	32	83	655.6	1.0	0.2	656.6	655.8
Base	50	457	32	83	655.9	0.9	0.5	656.8	656.5
Overtopping	100	547	32	83	656.0	0.8	0.6	656.9	656.7
Max. Calc.	500	771	32	83	656.3	0.9	0.7	657.2	657.0



Mary Coombe Blodorf
ILLINOIS STRUCTURAL NO. 4859
EXPIRES 11/30/18
DATE: 08/15/18

STATION BUILT 2019 BY STATE OF ILLINOIS
F.A.P. RT. 322 SEC. 43 CR
LOADING HL-93
STR. NO. 011-2142

NAME PLATE
See Std. 515001

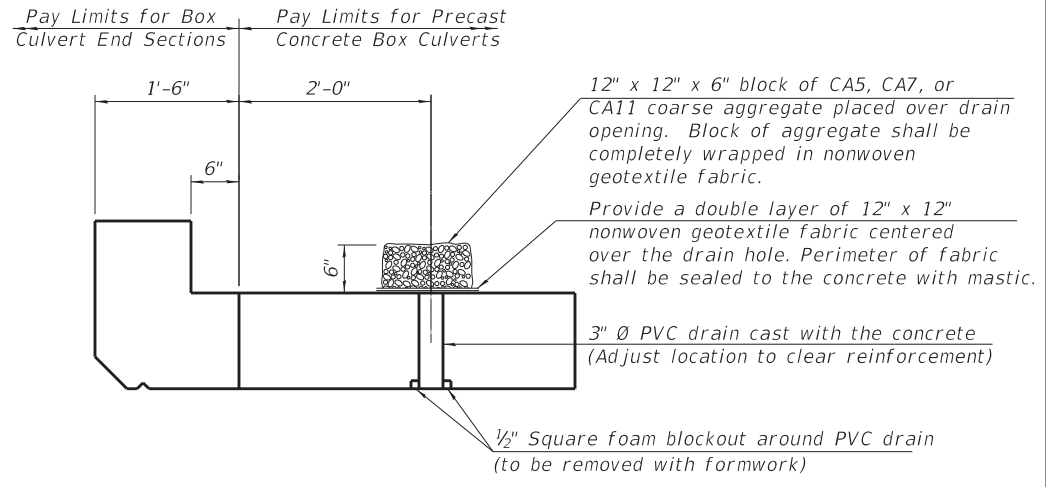


INDEX OF SHEETS

- General Plan and Elevation
- Stage Construction Details
- 4. Multi-cell Concrete Box Culvert Apron End Section Details
- 6. Boring Logs

GENERAL NOTES

The design fill height for this box is 1.89 ft. The precast box culvert sections shall conform to the requirements of ASTM C 1577.
Drain holes shall be provided on exterior culvert walls for each precast box segment with a clear rise greater than 3 ft. The drain hole shall be located within 1/3 of the clear rise of the box culvert, shall not intercept the haunch, and shall conform to the requirements of Article 503.11 of the Standard Specification.
Nonwoven geotextile fabric shall conform to the requirements of Art. 1080.01 of the Standard Specifications. The minimum weight of the fabric shall be 6 ounces per square yard.



DRAIN DETAIL

(All costs associated with furnishing and constructing the above drain detail will not be measured for payment but shall be included in the contract unit price for the associated work.)

DESIGN SPECIFICATIONS

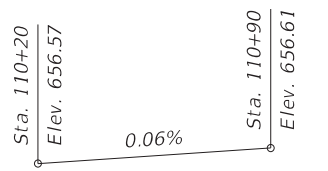
2012 AASHTO LRFD Bridge Design Specifications
6th Edition

LOADING HL-93

DESIGN STRESSES

PRECAST UNITS
f'c = 5,000 psi
fy = 65,000 psi (Welded Wire Reinforcement)

FIELD UNITS
f'c = 3,500 psi
fy = 65,000 psi (Welded Wire Reinforcement)



PROFILE GRADE

TOTAL BILL OF MATERIAL

ITEM	UNIT	TOTAL
Removal of Existing Structures	Each	1
Name Plates	Each	1
Box Culvert End Sections, Culvert No. 1	Each	2
Precast Concrete Box Culverts, 10x3	Foot	243
Granular Culvert Backfill	Cu. Yd.	100
Temporary Soil Retention System	Sq. Ft.	224
Structure Excavation	Cu. Yd.	565
Membrane Waterproofing System for Buried Structures	Sq. Yd.	338

GENERAL PLAN AND ELEVATION

US 51 OVER DITCH
F.A.P. RTE. 322 SEC. 43 CR
CHRISTIAN COUNTY
STATION 110+55.00
S.N. 011-2142

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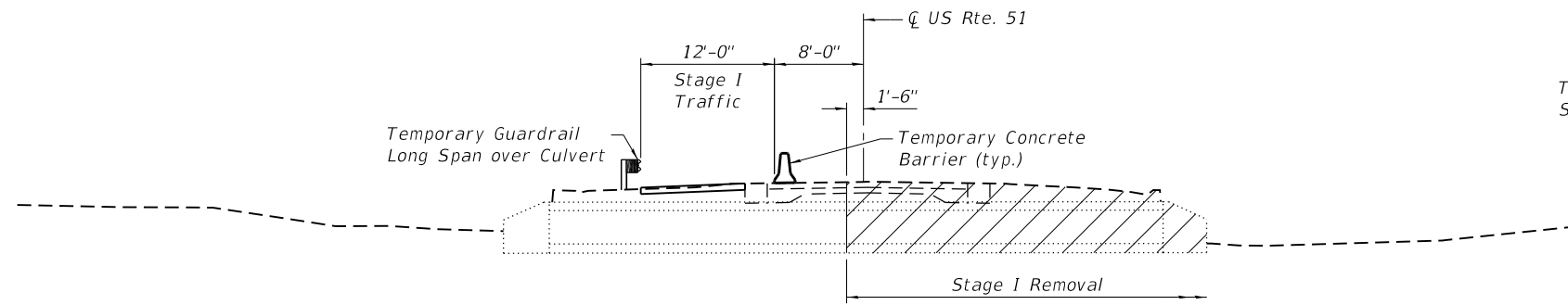
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ENGINEERING & ENVIRONMENTAL
ILLINOIS DESIGN FIRM NO. 184-003525
ILLINOIS PROJECT NUMBER: 17-430

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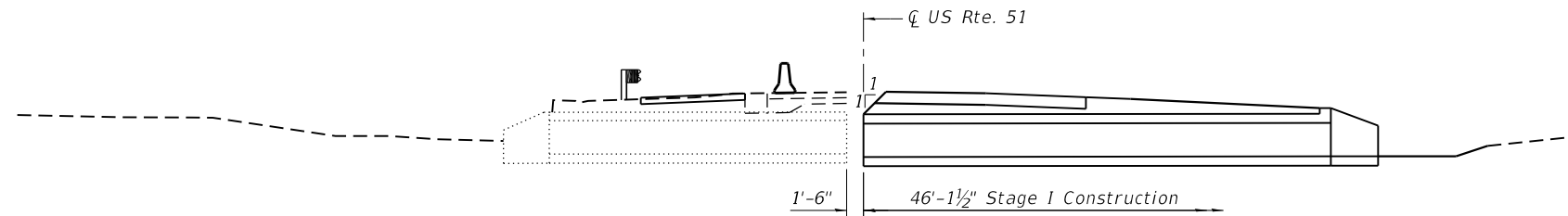
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DEPARTMENT OF TRANSPORTATION

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
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ILLINOIS FED. AID PROJECT CONTRACT NO. 72C83				

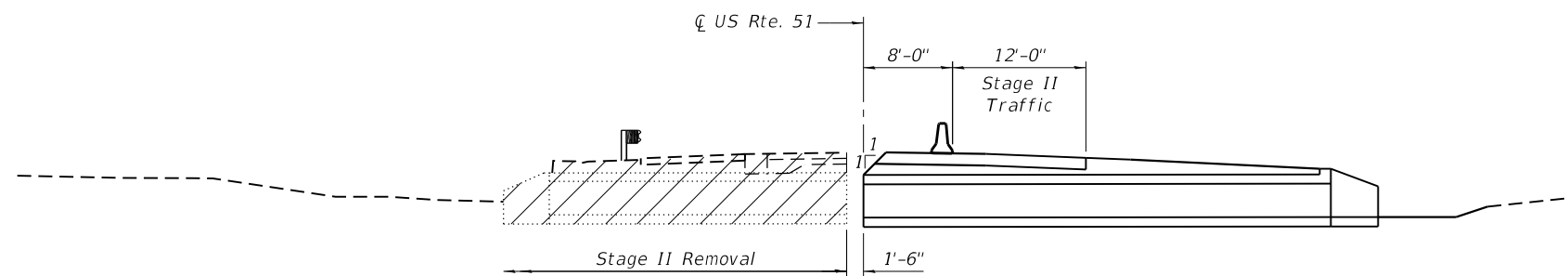
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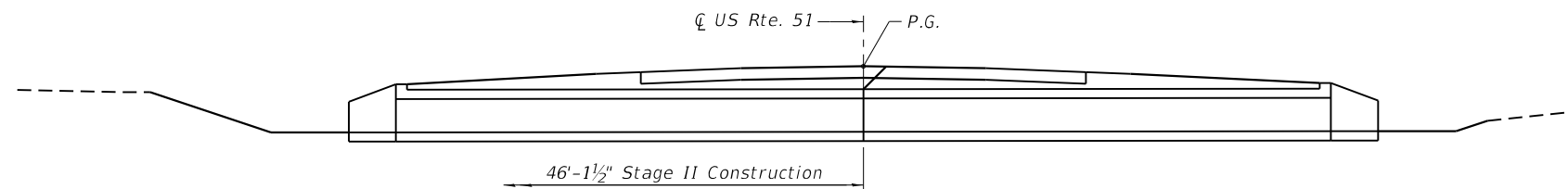
STAGE I REMOVAL
 (Looking North)



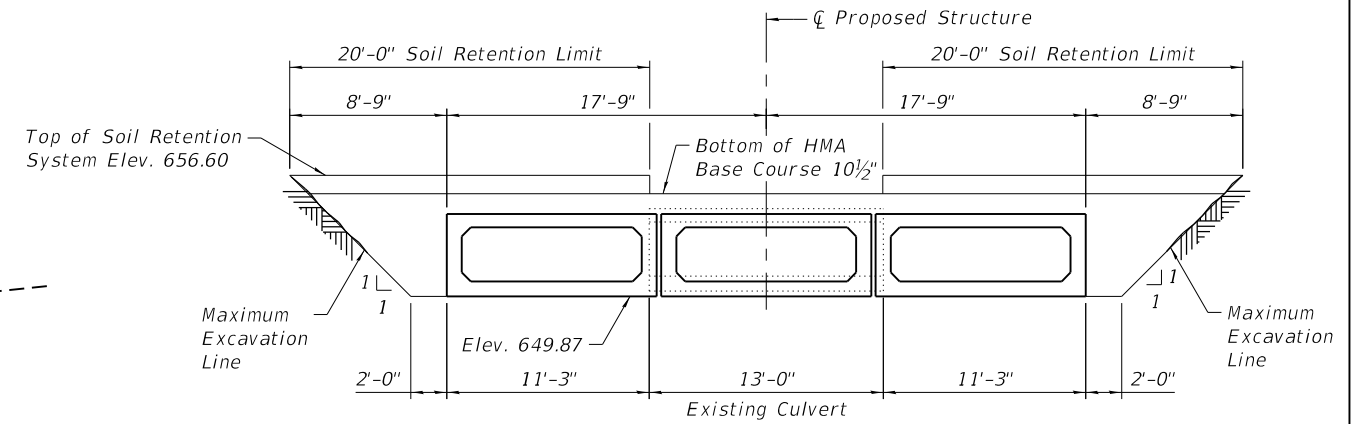
STAGE I CONSTRUCTION
 (Looking North)



STAGE II REMOVAL
 (Looking North)

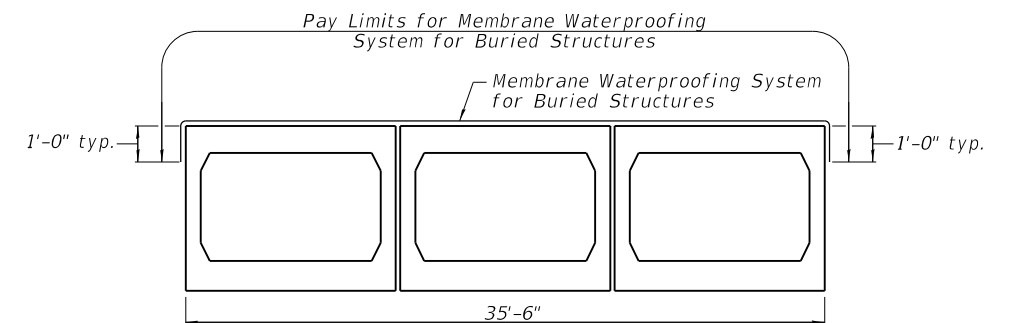


STAGE II CONSTRUCTION
 (Looking North)



TEMPORARY SOIL RETENTION SYSTEM

Notes:
 The Contractor shall submit a temporary soil retention system design including plan details and calculations for review and acceptance by the Engineer.
 Hatched area indicates Removal of Existing Structures and Removal of the additional slab added over the top slab is included in Removal of Existing Structures
 See roadway plans for quantity of Temporary Concrete Barrier and Temporary Guardrail.



MEMBRANE WATERPROOFING SYSTEM FOR BURIED STRUCTURES

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F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
322	43 CR	CHRISTIAN	33	24
CONTRACT NO. 72C83				
ILLINOIS FED. AID PROJECT				

GENERAL NOTES

Box Culvert End Sections shall be constructed according to the requirements of Section 540 of the Standard Specifications except as modified herein. End sections will be paid for at the contract unit price per each for Box Culvert End Sections.

Box section dimensions, materials, and reinforcement details for Box Culvert End Sections shall be according to the requirements for ASTM C 1577 as required for the design of the portion of the culvert within the limits of Precast Concrete Box Culverts except as modified herein.

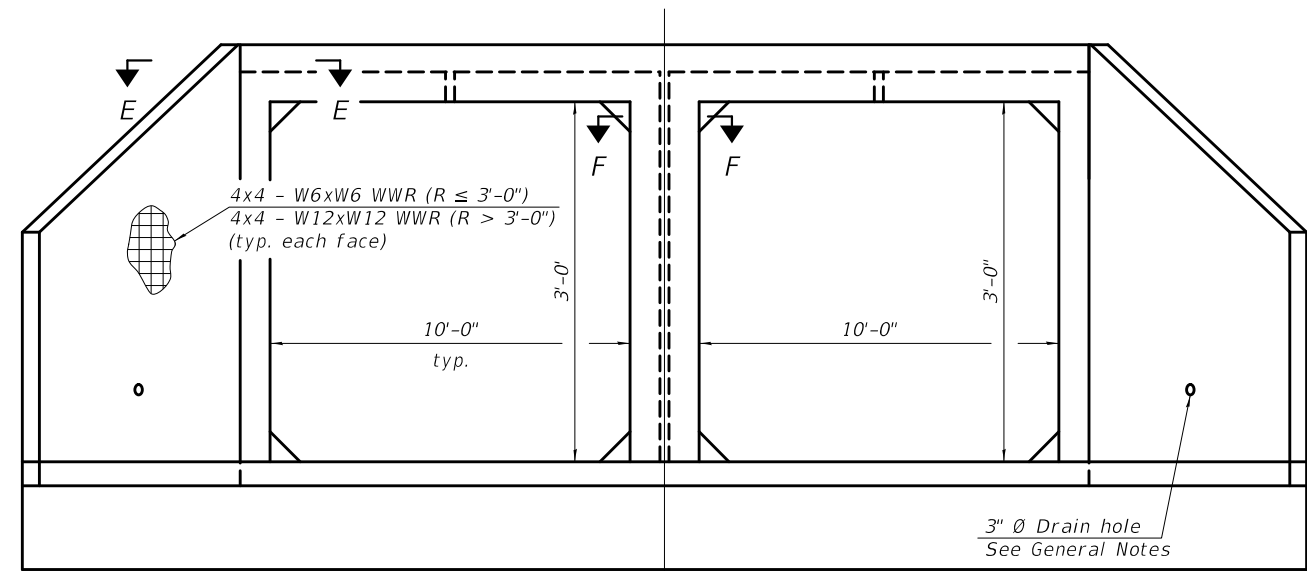
The contractor may use reinforcement bars in lieu of welded wire reinforcement (WWR). Reinforcement bars shall be limited to the sizes of #3 through #5 bars, a maximum spacing of the lesser of 8" or the member thickness, and shall result in an area of reinforcement equal to or greater than that provided by the WWR. Minimum lap lengths detailed herein are applicable to WWR and reinforcement bars.

One drain hole shall be provided in each wingwall for end sections of box culverts having an opening with a clear rise greater than 3 ft. The drain hole shall be located within 1/3 of the clear rise of the box culvert and shall conform to the requirements of Article 503.11 of the Standard Specifications.

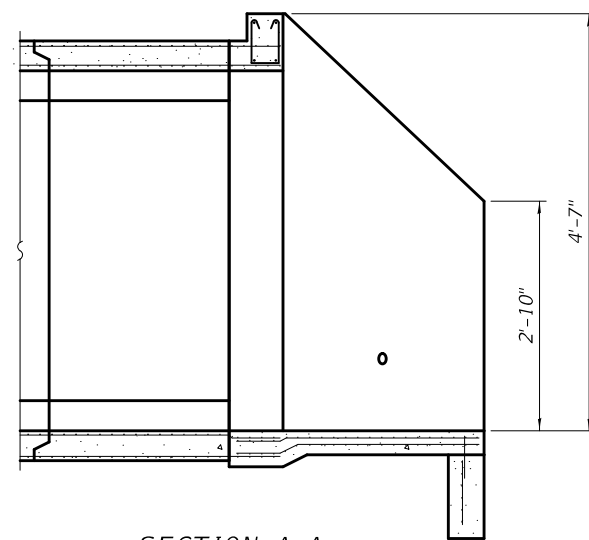
Shop drawings that detail slab thickness and reinforcement layout for the Box Culvert End Sections shall be provided to the Engineer for review and approval. Reinforcement bars not detailed herein shall be detailed with a clear distance at the end of the reinforcement not less than 1#2" nor more than 2".

The estimated quantity of concrete for 1 Box Culvert End Section is 15.0 Cu. Yd. The details contained herein are for constructing end sections using cast-in-place construction. A Precast option is not allowed.

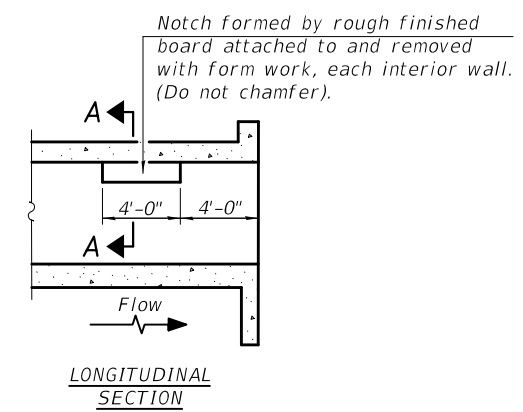
The dimensions shown are for a triple box culvert.



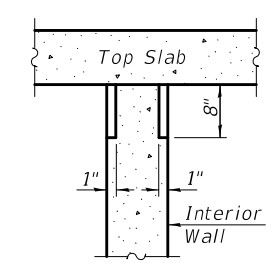
END VIEW



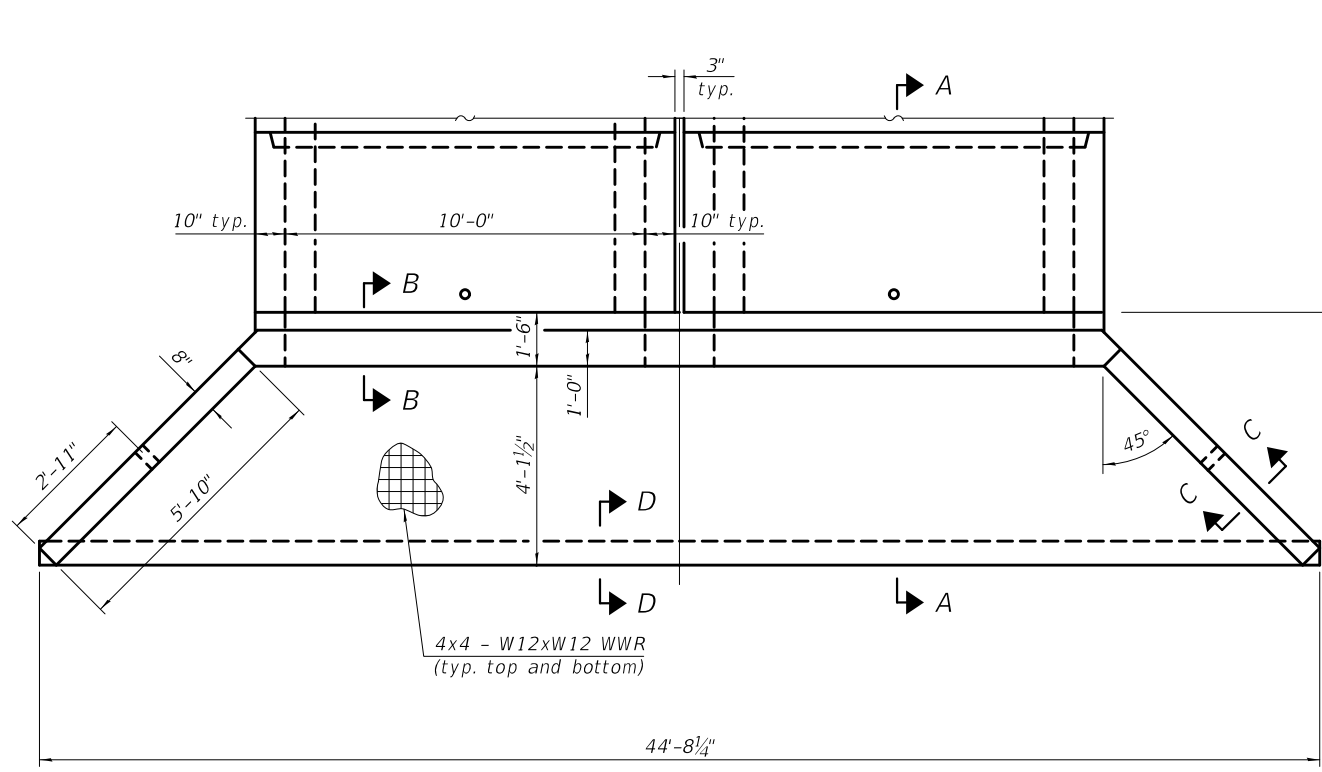
SECTION A-A



LONGITUDINAL SECTION



**SECTION A-A
PHOEBE NESTING
SITE DETAILS
(Downstream End Only)**



PLAN

BILL OF MATERIAL

Item	Unit	Total
Box Culvert End Sectons	Each	2

MCB-AES

2-17-2017

(Sheet 1 of 2)

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DEPARTMENT OF TRANSPORTATION**

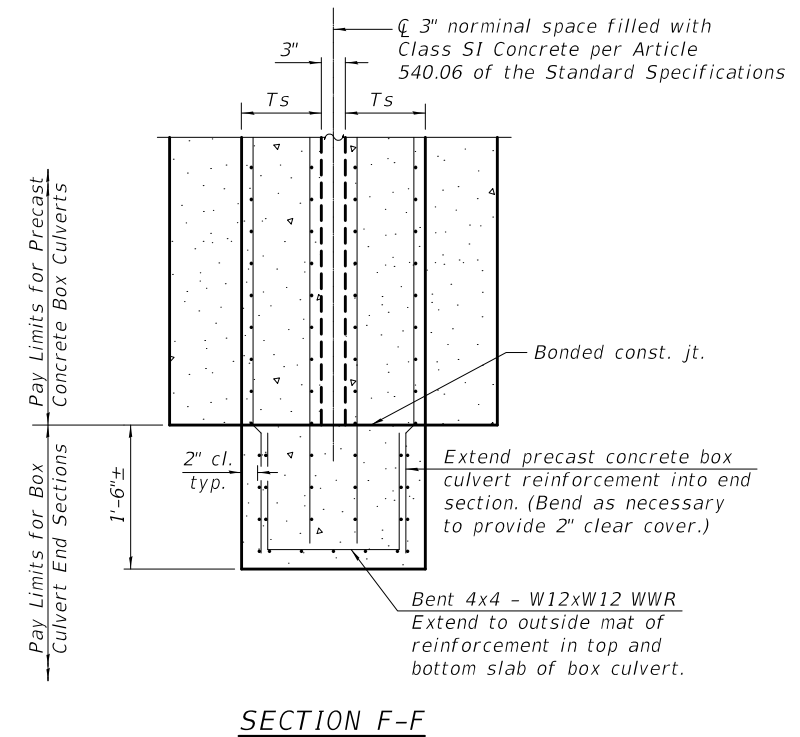
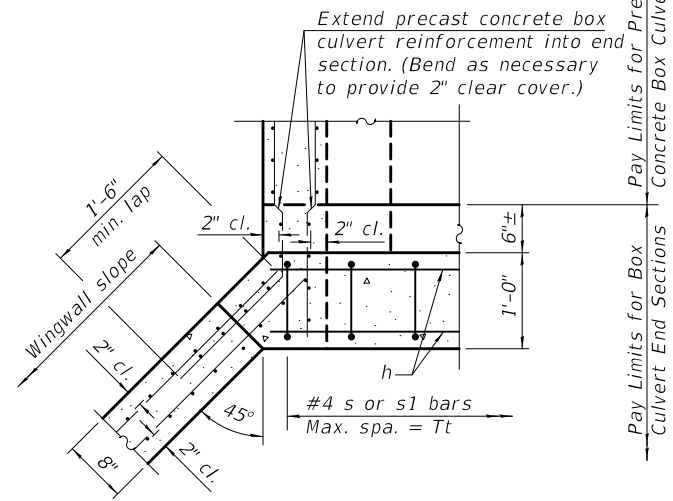
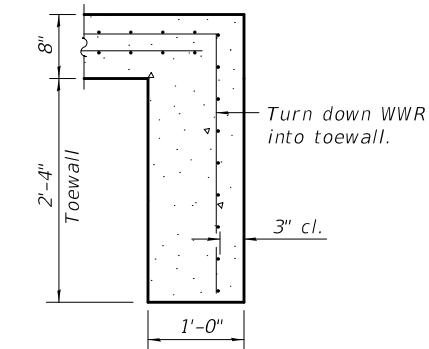
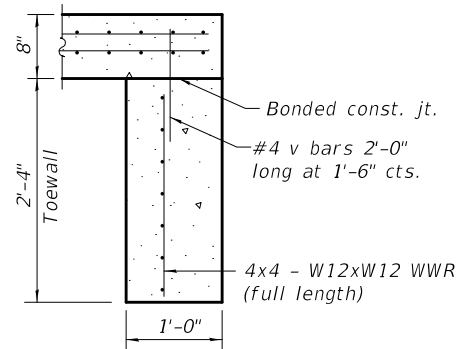
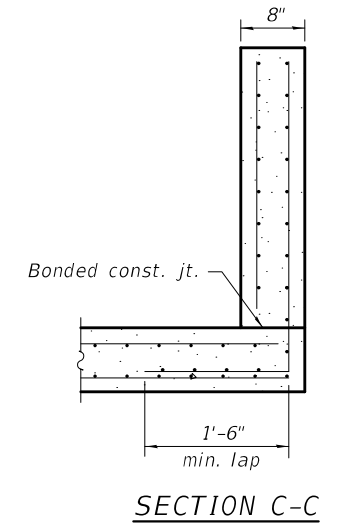
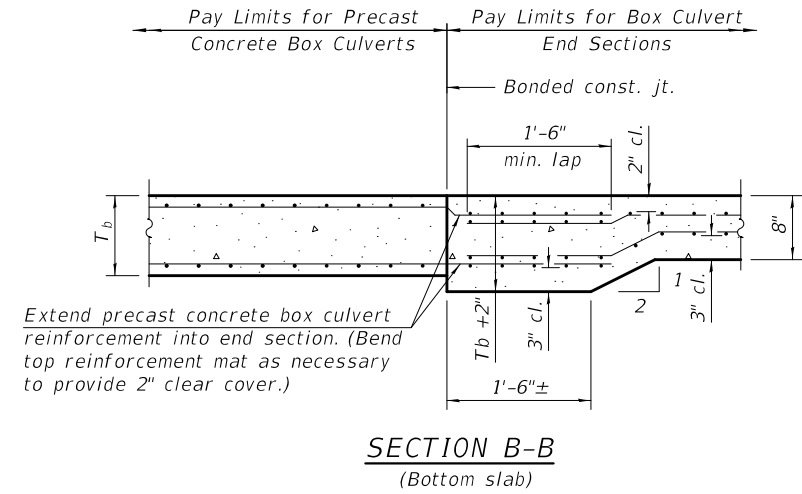
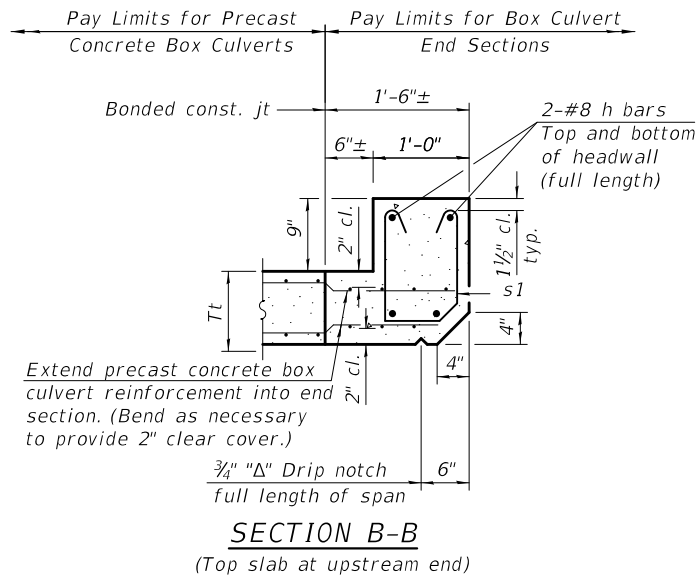
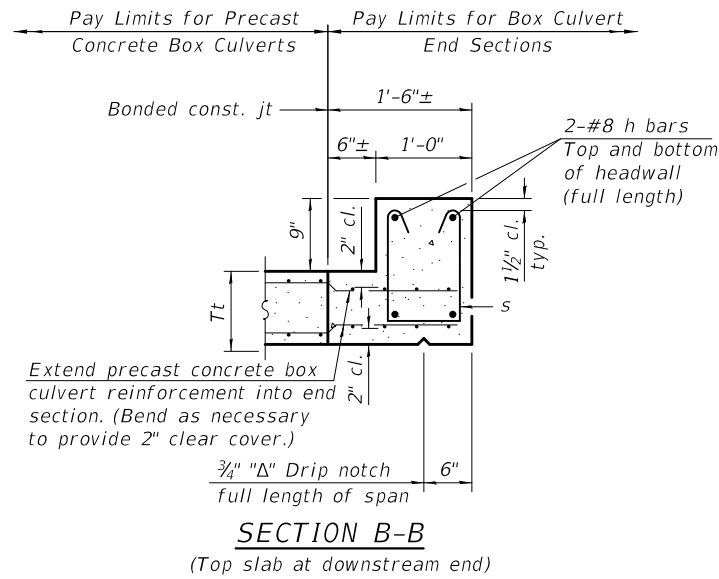
**CONCRETE BOX CULVERT APRON END
SECTION DETAILS - STRUCTURE NO. 011-2142**

SHEET 3 OF 5 SHEETS

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
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ILLINOIS FED. AID PROJECT

FEHR GRAHAM PROJECT NUMBER: 17-430

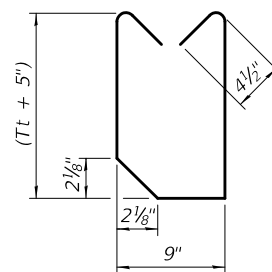
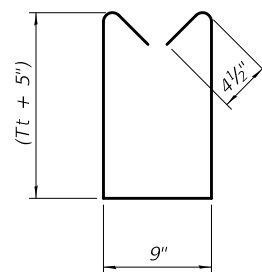


TOEWALL CONSTRUCTION SEQUENCE

1. Perform excavation and construct toewall.
2. Backfill accordingly and prepare bedding for box culvert end sections.
3. Construct remainder of box culvert end section.

Note:

If soil conditions permit, the toewall may be poured monolithically with the bottom slab of the end section using Alt. Section D-D subject to approval from the Engineer.



MCB-AES

2-17-2017

(Sheet 2 of 2)

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F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
322	43 CR	CHRISTIAN	33	26
CONTRACT NO. 72C83				
ILLINOIS FED. AID PROJECT				



SOIL BORING LOG

ROUTE IL 51 DESCRIPTION IL 51 over Unnamed Ditch LOGGED BY M. Tappan

SECTION 43 CR LOCATION NW 1/4, SEC. 25, TWP. 13N, RNG. 2W, 3 PM

COUNTY Christian DRILLING METHOD HSA HAMMER TYPE 140 # Auto

STRUCT. NO. EX SN 011-7036
PR SN 001-7142
Station 110+55

BORING NO. 1 SW WW
Station 110+48
Offset 15.0ft LT
Ground Surface Elev. 656.3 ft

DEPTH (ft)	BULGE (in)	UCS (tsf)	MOIST (%)	DESCRIPTION	DEPTH (ft)	BULGE (in)	UCS (tsf)	MOIST (%)
0				Dark Gray Moist SILTY CLAY (Fill) Poor Recovery	0			
1					0			
2	2.0	24			0	.70	77	
4	P				0	B		
					WOH			
				Tan and Gray Moist SILTY CLAY (Fill) Poor Recovery				
2					0			
3	2.5	21			0	.0	27	
4	P				0	B		
651.30	-5				631.80			
				Light Reddish Brown and Gray Moist SILTY CLAY Poor Recovery				
1					-25	WOH		
2	1.2	30						
3	P							
648.80								
				Tan and Light Gray Moist SILTY CLAY LOAM				
1								
1	.70	26						
2	B							
646.30	-10							
				Very Dark Gray Moist SILTY CLAY				
0								
2	1.1	33						
2	B							
0								
1	1.0	37						
2	B							
-15								
				Gray Very Moist SILTY CLAY with Gastropod Shells and Some Organics				
0								
1	.50	43						
1	B							
638.80								
				Brown and Light Gray Moist SILT LOAM with 6" Seam Brown Organic SILT with Gastropod Shells				
0								
1	1.0	35						
2	P							
-20								

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Latitude 39.24, 105N Longitude 88.02, 2370W Datum NAD83 Job Number D-96-080-11

The Unconfined Compressive Strength (UCS) Failure Mode is indicated by (B-Bulge, S-Shear, P-Penetrometer, E-Estimated)
Abbreviations W.O.H - Sampler Advanced By Weight of Hammer, W.O.P - Advanced By Weight of Pipe, B.S. - Before Seating
The SPT (N value) is the sum of the last two blow values in each sampling zone (AASHTO T206) BBS, from 137 (Rev. 8-99)

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STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

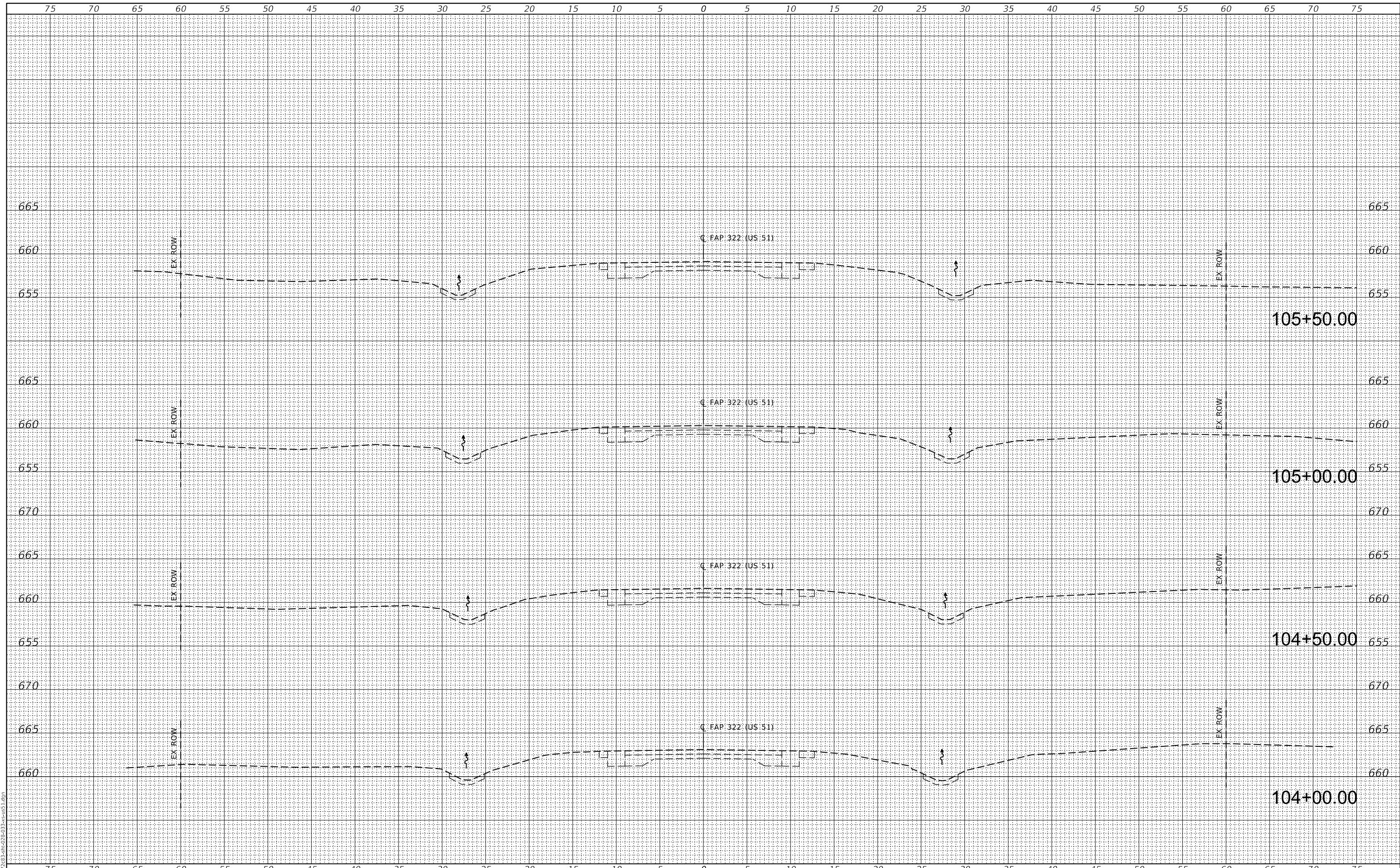
SOIL BORINGS
STRUCTURE NO. 011-2142
SHEET 5 OF 5 SHEETS

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
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			CONTRACT NO. 72C83	
		ILLINOIS FED. AID PROJECT		

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

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

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FEHR GRAHAM
ENGINEERING & ENVIRONMENTAL
ILLINOIS DESIGN FIRM NO. 184-003525
FEHR GRAHAM PROJECT NUMBER: 17-430

USER NAME = cconnor	DESIGNED - MCB	REVISED -
	DRAWN - CFC	REVISED -
PLOT SCALE = 10.000000' / in.	CHECKED - MCB	REVISED -
PLOT DATE = 8/15/2018	DATE -	REVISED -

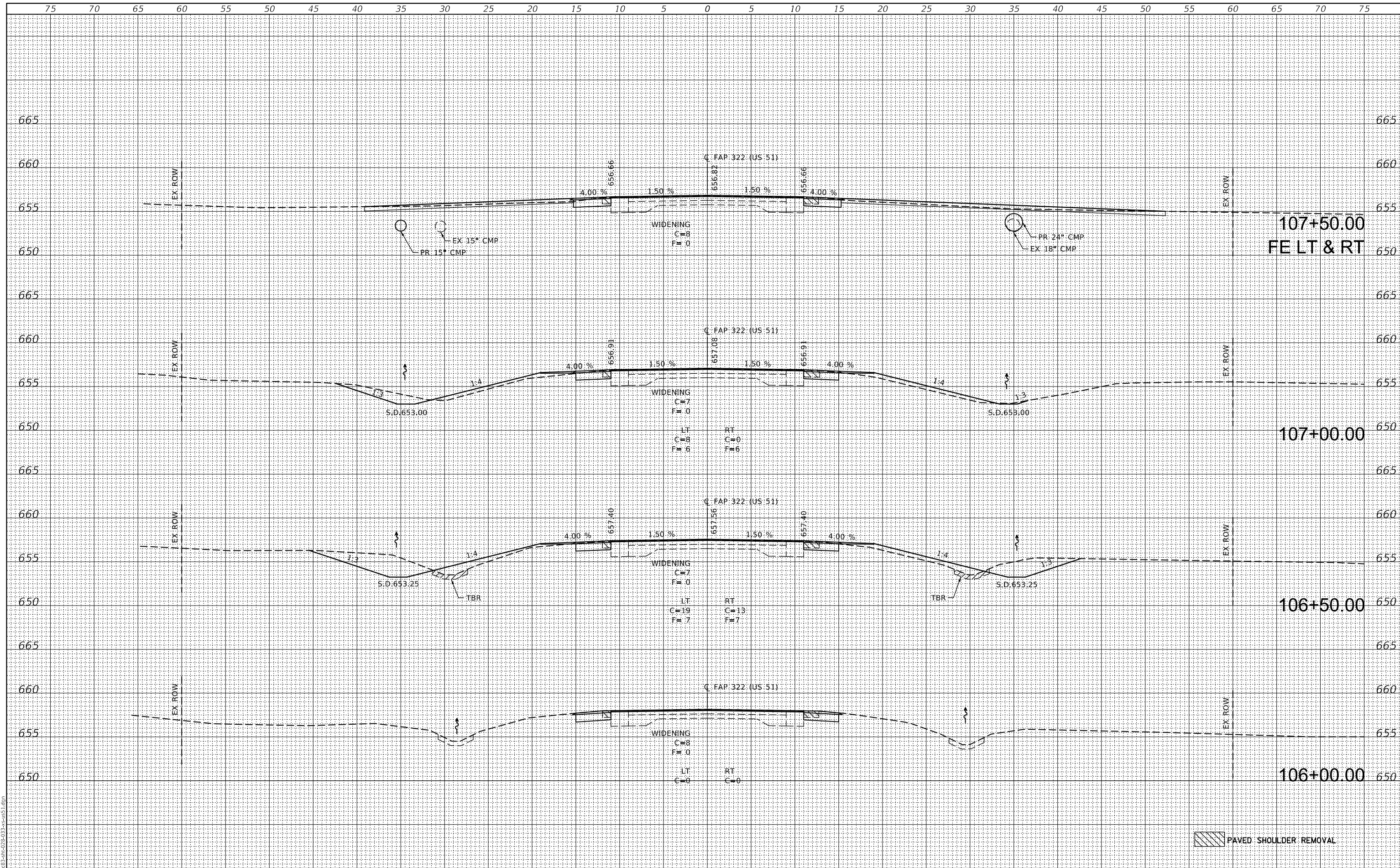
**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

CROSS SECTIONS US 51	
SCALE:	SHEET OF SHEETS
STA. 104+00.00	TO STA. 105+50.00

F.A.P. RTE. 322	SECTION 43 CR	COUNTY CHRISTIAN	TOTAL SHEETS 33	SHEET NO. 28
CONTRACT NO. 72C83				
ILLINOIS FED. AID PROJECT				

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

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



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FEHR GRAHAM
 ENGINEERING & ENVIRONMENTAL
 ILLINOIS DESIGN FIRM NO. 184-003525

USER NAME = cconnor	DESIGNED - MCB	REVISED -
	DRAWN - CFC	REVISED -
PLOT SCALE = 10.000000' / in.	CHECKED - MCB	REVISED -
PLOT DATE = 8/15/2018	DATE -	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

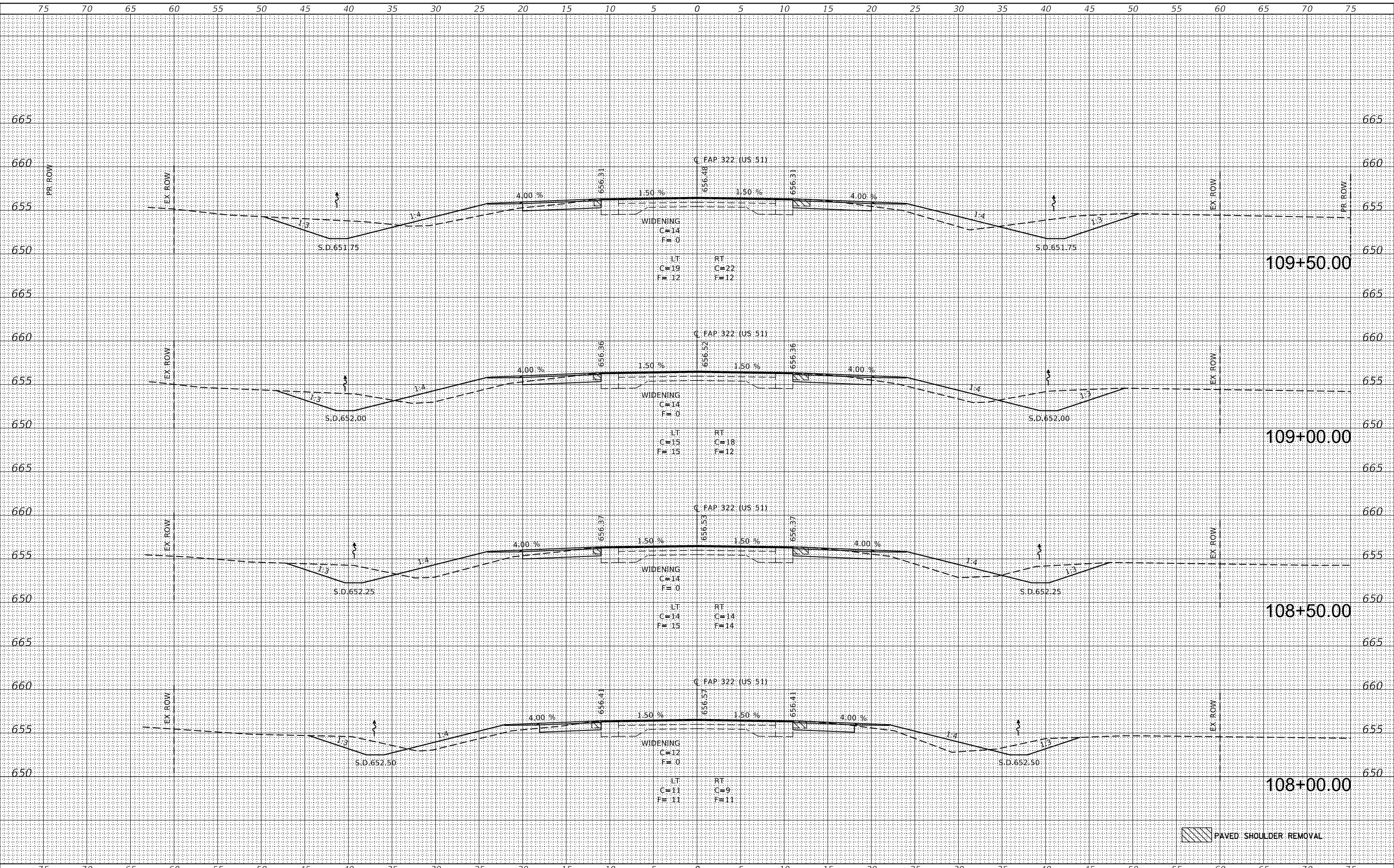
CROSS SECTIONS	
US 51	
SCALE:	SHEET OF SHEETS
STA. 106+00.00	TO STA. 107+50.00

F.A.P. RTE. 322	SECTION 43 CR	COUNTY CHRISTIAN	TOTAL SHEETS 33	SHEET NO. 29
CONTRACT NO. 72C83				
ILLINOIS FED. AID PROJECT				

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

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

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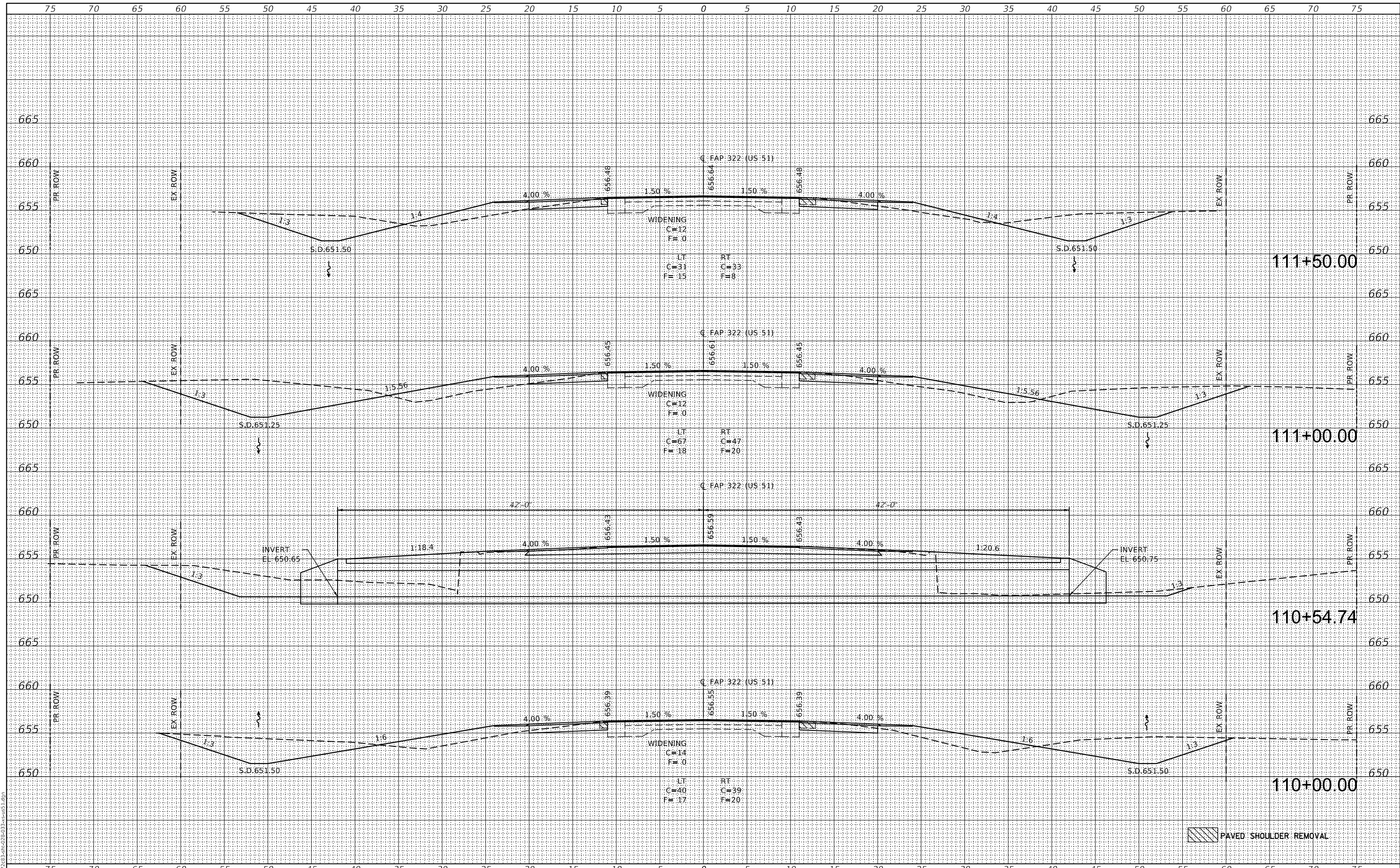


75	70	65	60	55	50	45	40	35	30	25	20	15	10	5	0	5	10	15	20	25	30	35	40	45	50	55	60	65	70	75																																				
FEHR GRAHAM ENGINEERING & ENVIRONMENTAL ILLINOIS DESIGN FIRM NO. 184-003525 ILLINOIS PROJECT NUMBER: 17-430																USER NAME = cconnor DESIGNED - MCB DRAWN - CFC CHECKED - MCB DATE - PLOT SCALE = 10.000000' / in. PLOT DATE = 8/15/2018											REVISED - REVISED - REVISED - REVISED -										STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION										CROSS SECTIONS US 51										F.A.P. RTE. 322 SECTION 43 CR COUNTY CHRISTIAN TOTAL SHEETS 33 SHEET NO. 30 CONTRACT NO. 72C83 ILLINOIS FED. AID PROJECT									
SCALE:																SHEET										OF										SHEETS										STA. 108+00.00										TO STA. 109+50.00										

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

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

MODEL: Definit
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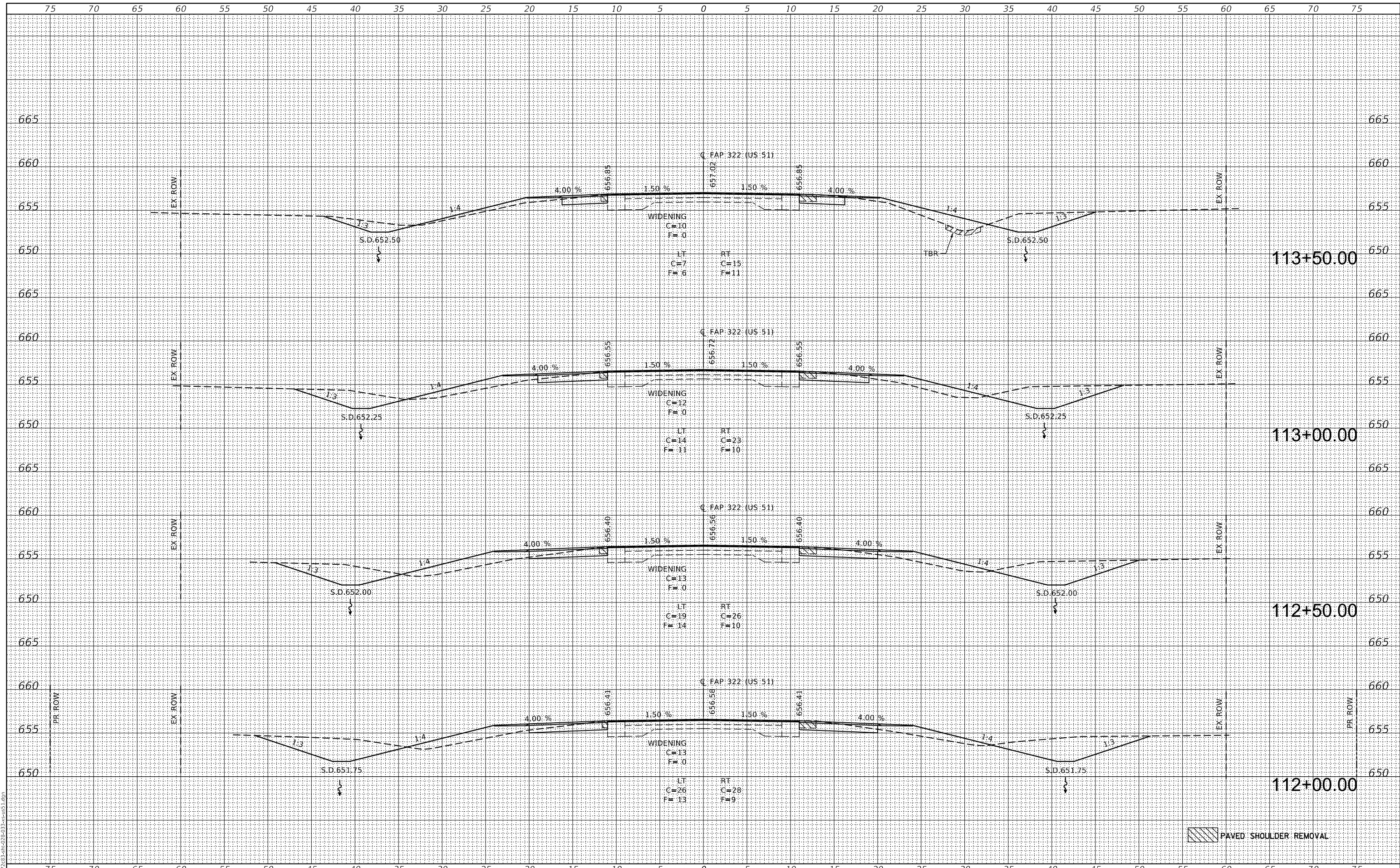


FEHR GRAHAM ENGINEERING & ENVIRONMENTAL ILLINOIS DESIGN FIRM NO. 184-003525 ILLINOIS PROJECT NUMBER: 17-430	USER NAME = cconnor DESIGNED - MCB DRAWN - CFC CHECKED - MCB DATE -	REVISED - REVISED - REVISED - REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	CROSS SECTIONS US 51		F.A.P. RTE. 322 SECTION 43 CR COUNTY CHRISTIAN CONTRACT NO. 72C83	TOTAL SHEETS 33 SHEET NO. 31
	PLOT SCALE = 10.000000' / in. PLOT DATE = 8/15/2018	SCALE: SHEET OF SHEETS STA. 110+00.00 TO STA. 111+50.00		ILLINOIS FED. AID PROJECT			

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

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

MODEL: Definit
 FILE NAME: ...087283-sh-02-03-4-05.dgn



PAVED SHOULDER REMOVAL

FEHR GRAHAM
 ENGINEERING & ENVIRONMENTAL
 ILLINOIS DESIGN FIRM NO. 184-003525
 FEHR GRAHAM PROJECT NUMBER: 17-430

USER NAME = cconnor	DESIGNED - MCB	REVISED -
	DRAWN - CFC	REVISED -
PLOT SCALE = 10.000000' / in.	CHECKED - MCB	REVISED -
PLOT DATE = 8/15/2018	DATE -	REVISED -

**STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION**

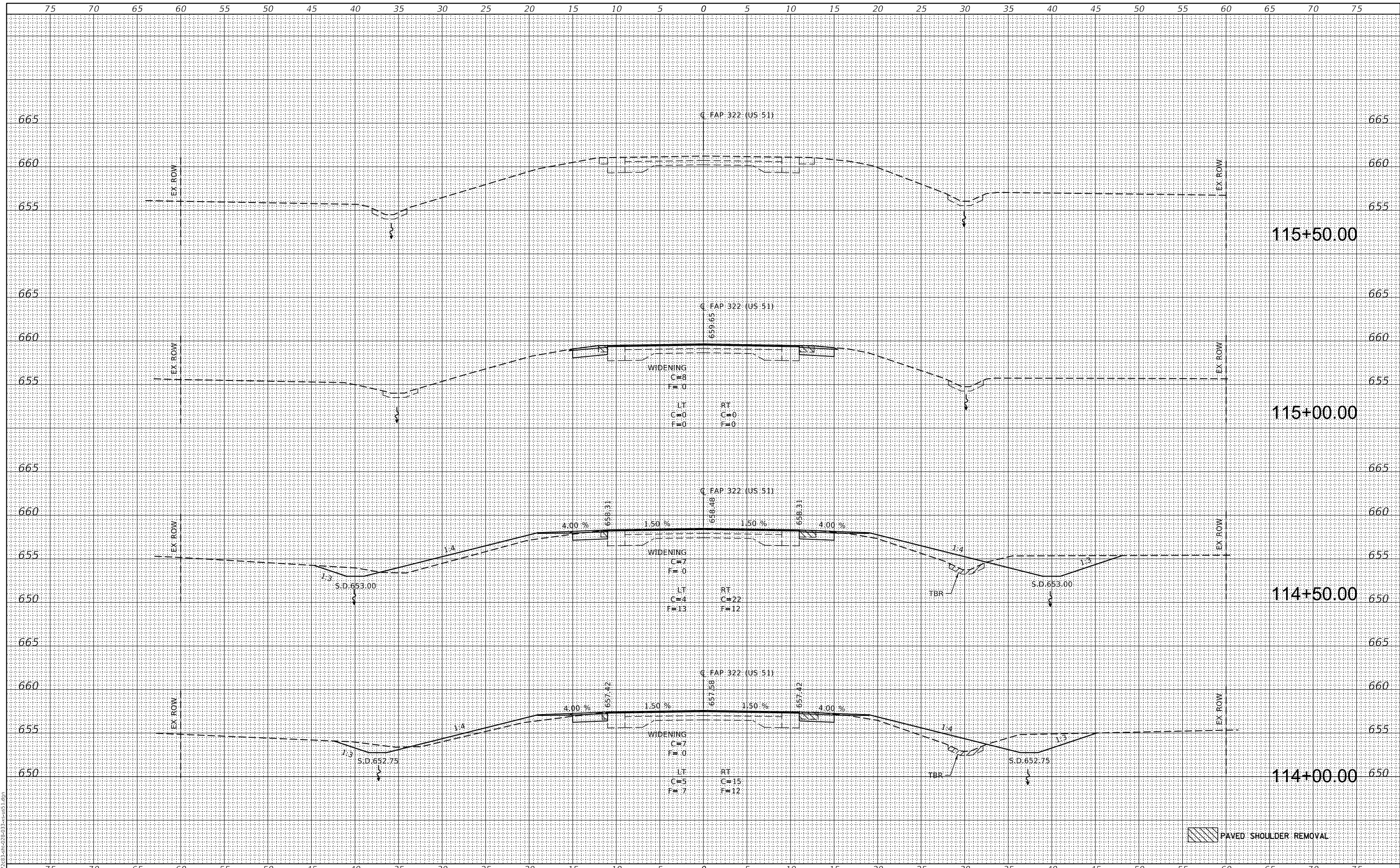
CROSS SECTIONS	
US 51	
SCALE:	SHEET OF SHEETS
STA. 112+00.00 TO STA. 113+50.00	

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
322	43 CR	CHRISTIAN	33	32
CONTRACT NO. 72C83				
ILLINOIS FED. AID PROJECT				

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

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

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 FILE NAME: ...087283-sh-028-033-sec05.dgn



FEHR GRAHAM
 ENGINEERING & ENVIRONMENTAL
 ILLINOIS DESIGN FIRM NO. 184-003525
 FEHR GRAHAM PROJECT NUMBER: 17-430

USER NAME = cconnor	DESIGNED - MCB	REVISED -
	DRAWN - CFC	REVISED -
PLOT SCALE = 10.000000' / in.	CHECKED - MCB	REVISED -
PLOT DATE = 8/15/2018	DATE -	REVISED -

**STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION**

CROSS SECTIONS US 51	
SCALE:	SHEET OF SHEETS STA. 114+00.00 TO STA. 115+50.00

F.A.P. RTE. 322	SECTION 43 CR	COUNTY CHRISTIAN	TOTAL SHEETS 33	SHEET NO. 33
CONTRACT NO. 72C83				
ILLINOIS FED. AID PROJECT				