

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
7711	17-00170-00-BR	COLES	26	1
		ILLINOIS	CONTRACT NO. 95884	

INDEX OF SHEETS

- 1 COVER SHEET
- 2 - 3 SUMMARY OF QUANTITIES
- 4 GENERAL NOTES AND TYPICAL SECTIONS
- 5 - 6 SCHEDULE OF QUANTITIES
- 7 PLAN AND PROFILE
- 8 - 19 GENERAL BRIDGE DETAILS
- 20 EROSION CONTROL PLAN
- 21 TRAFFIC CONTROL AND PROTECTION DEVICES
- 22 - 26 CROSS SECTIONS

PLANS FOR PROPOSED FEDERAL AID HIGHWAY

ROUTE FAU 7711/CH 27 (ODD FELLOWS RD.)
 SECTION 17-00170-00-BR
 PROJECT MWP9(383)
 BRIDGE REPLACEMENT OVER KICKAPOO CREEK
 COLES COUNTY

HIGHWAY STANDARDS

- 000001-08 STANDARD SYMBOLS, ABBREVIATIONS AND PATTERNS
- 001001-02 AREAS OF REINFORCEMENT BARS
- 280001-07 TEMPORARY EROSION CONTROL SYSTEMS
- 515001-04 NAME PLATE FOR BRIDGES
- 601001-05 PIPE UNDERDRAINS
- 601101-02 CONCRETE HEADWALL FOR PIPE UNDERDRAIN
- 630001-12 STEEL PLATE BEAM GUARDRAIL
- 630301-09 SHOULDER WIDENING FOR TYPE I (SPECIAL) GUARDRAIL TERMINALS
- 701901-08 TRAFFIC CONTROL DEVICES
- 725001-01 OBJECT AND TERMINAL MARKERS
- 780001-05 TYPICAL PAVEMENT MARKINGS
- 782006-01 GUARDRAIL AND BARRIER WALL REFLECTOR MOUNTING DETAILS
- BLR 27-1 TRAFFIC BARRIER TERMINAL TYPE 5A

ADT-CURRENT 3000 DESIGN ADT (20 YR.) 3700
 CLASS - (MAJOR COLLECTOR)
 DESIGN SPEED - 50 MPH



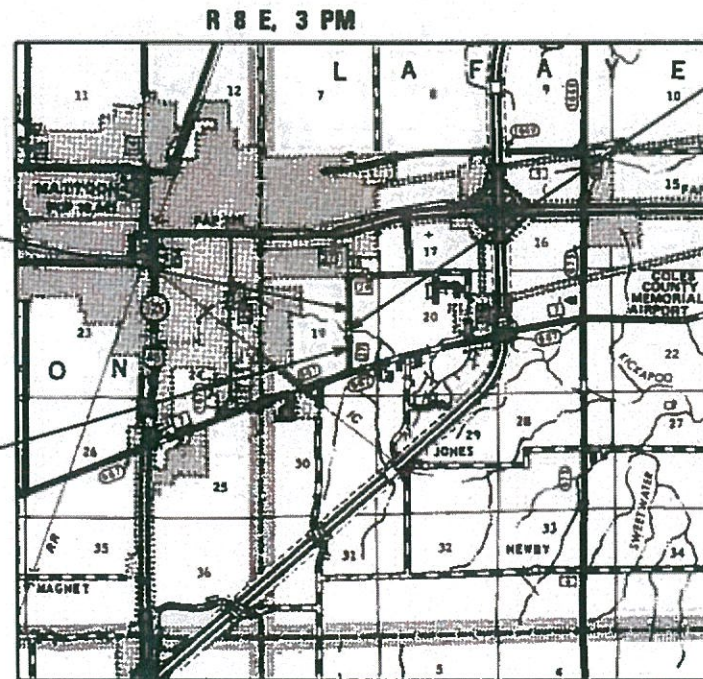
FULL SIZE PLANS HAVE BEEN PREPARED USING STANDARD ENGINEERING SCALES. REDUCED SIZED PLANS WILL NOT CONFORM TO STANDARD SCALES. IN MAKING MEASUREMENTS ON REDUCED PLANS, THE ABOVE SCALES MAY BE USED.

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



CONTRACT NO. 95884

C-97-100-21



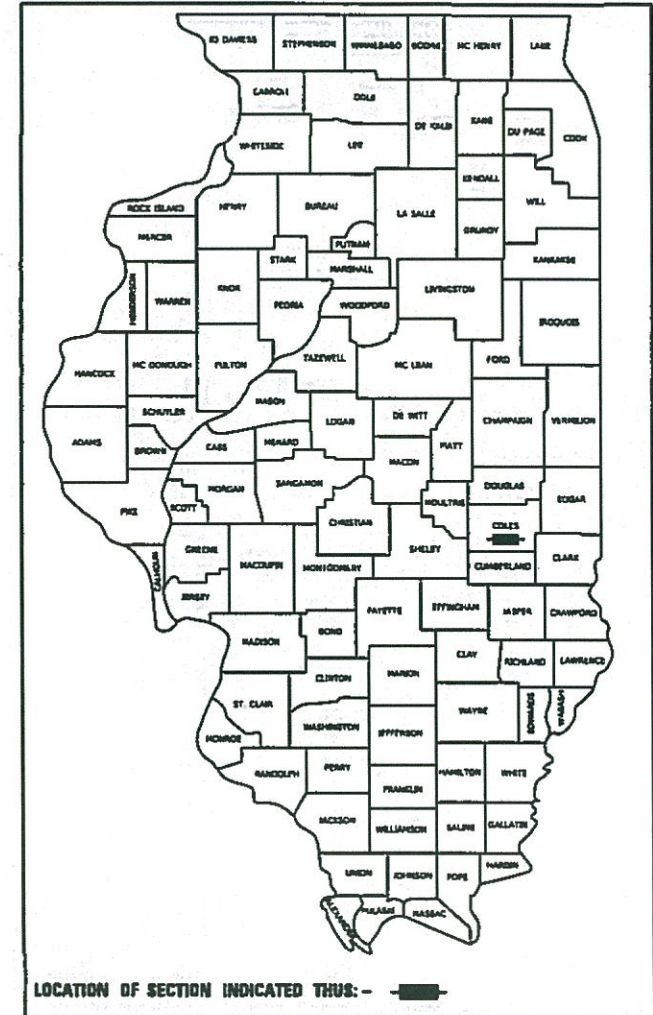
LOCATION MAP

GROSS LENGTH = 1100 FT. = 0.208 MILE
 NET LENGTH = 1100 FT. = 0.208 MILE

EXISTING STRUCTURE # 015-3205
 PROPOSED STRUCTURE # 015-3433
 STA. 15+00
 PRECAST PRESTRESSED DECK BEAM (27" DEPTH)
 WITH 5" MIN. CONC. WEARING SURFACE
 SINGLE SPAN, 65'-0" BK-BK ABUTMENTS
 32'-0" ROADWAY, SKEW 0 DEGREES



DATE: 10-6-2020
 STANLEY J. FEARDAY, P.E.
 LICENSE EXP. DATE 11-30-21



LOCATION OF SECTION INDICATED THUS: - [Symbol] -

APPROVED 11/04/2020
 [Signature]
 COLES COUNTY ENGINEER

PASSED 11-5-20
 [Signature]
 DISTRICT SEVEN ENGINEER OF LOCAL ROADS AND STREETS

RELEASING FOR BID BASED ON LIMITED REVIEW 11-5-20
 [Signature]
 REGION FOUR ENGINEER

PRINTED BY THE AUTHORITY OF THE STATE OF ILLINOIS

CODE NO.	ITEM	UNIT	CONCRUCTION CODE	
			80% FED 20% LOCAL	STRUCTURE SN 015-3433
			0010	
CODE NO.	ITEM	UNIT	TOTAL QUANTITY	
20200100	EARTH EXCAVATION	CU YD	3723	
20300100	CHANNEL EXCAVATION	CU YD	385	
25000200	SEEDING, CLASS 2	ACRE	1.5	
25000400	NITROGEN FERTILIZER NUTRIENT	POUND	135	
25000500	PHOSPHORUS FERTILIZER NUTRIENT	POUND	135	
25000600	POTASSIUM FERTILIZER NUTRIENT	POUND	135	
* 25100115	MULCH, METHOD 2	ACRE	1.5	
28000250	TEMPORARY EROSION CONTROL SEEDING	POUND	150	
28000305	TEMPORARY DITCH CHECKS	FOOT	275	
28000400	PERIMETER EROSION BARRIER	FOOT	248	
28000500	INLET AND PIPE PROTECTION	EACH	4	
28100107	STONE RIPRAP, CLASS A4	SQ YD	331	
28200200	FILTER FABRIC	SQ YD	331	
35101100	AGGREGATE BASE COURSE, TYPE A, 12"	SQ YD	3053	

* SPECIALTY PROVISION
 Δ SPECIALTY ITEM

CODE NO.	ITEM	UNIT	CONCRUCTION CODE	
			80% FED 20% LOCAL	STRUCTURE SN 015-3433
			0010	
CODE NO.	ITEM	UNIT	TOTAL QUANTITY	
40200100	AGGREGATE SURFACE COURSE, TYPE A	TON	188	
40600275	BITUMINOUS MATERIALS (PRIME COAT)	POUND	4255	
40600290	BITUMINOUS MATERIALS (TACK COAT)	POUND	1632	
40603085	HOT-MIX ASPHALT BINDER COURSE, IL-19.0, N70	TON	932	
40604002	HOT-MIX ASPHALT SURFACE COURSE, IL 9.5FG, MIX "C", N70	TON	279	
44000100	PAVEMENT REMOVAL	SQ YD	134	
48100500	AGGREGATE SHOULDERS, TYPE A 6"	SQ YD	912	
50100100	REMOVAL OF EXISTING STRUCTURES	EACH	1	
50105220	PIPE CULVERT REMOVAL	FOOT	157	
50200100	STRUCTURE EXCAVATION	CU YD	52	
50300225	CONCRETE STRUCTURES	CU YD	32.0	
50300260	BRIDGE DECK GROOVING	SQ YD	217	
50300300	PROTECTIVE COAT	SQ YD	232	
50400505	PRECAST PRESTRESSED CONCRETE DECK BEAMS (27" DEPTH)	SQ FT	2016	

* SPECIALTY PROVISION
 Δ SPECIALTY ITEM

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DRAWN - TLW	CHECKED - SAL	REVISED -
PLOT SCALE = 2.0000' / in.	DATE - AUG. 25, 2020	REVISED -
PLOT DATE = 10/15/2020		

**STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION**

SUMMARY OF QUANTITIES			
CH 27 (ODD FELLOWS ROAD) OVER KICKAPOO CREEK			
SCALE: 2.0000' / in.	SHEET	OF	SHEETS
	STA.		TO STA.

F.A. RTE. 7711	SECTION 17-00170-00-BR	COUNTY COLES	TOTAL SHEETS 26	SHEET NO. 2
CONTRACT NO. 95884				
ILLINOIS FED. AID PROJECT				

CONCRUCTION
CODE
80% FED
20% LOCAL
STRUCTURE
SN 015-3433
010

CODE NO.	ITEM	UNIT	TOTAL QUANTITY
50800205	REINFORCEMENT BARS, EPOXT COATED	POUND	7050
51200958	FURNISHING METAL SHELL PILES 14" X 0.250"	FOOT	590
51202305	DRIVING PILES	FOOT	590
51203200	TEST PILE STEEL METAL SHELL	EACH	2
51500100	NAME PLATES	EACH	1
542D0229	PIPE CULVERT CLASS D, TYPE 1, 24"	FOOT	356
59100100	GEOCOMPOSITE WALL DRAIN	SQ YD	38
59300100	CONRTROLLED LOW-STRENGTH MATERIAL	CU YD	38
60100060	CONCRETE HEADWALLS FOR PIPE DRAINS	EACH	4
Δ 63000001	STEEL PLATE BEAM GUARDRAIL, TYPE A, 6 FOOT POSTS	FOOT	75
Δ 63100075	TRAFFIC BARRIER TERMINAL, TYPE 5A	EACH	2
Δ 63100169	TRAFFIC BARRIER TERMINAL, TYPE 1 (SPECIAL) FLARED	EACH	2
67100100	MOBILIZATION	L SUM	1
70107025	CHANGEABLE MESSAGE SIGN	CAL DA	60

* SPECIALTY PROVISION
Δ SPECIALTY ITEM

CONCRUCTION
CODE
80% FED
20% LOCAL
STRUCTURE
SN 015-3433
010

CODE NO.	ITEM	UNIT	TOTAL QUANTITY
70300100	SHORT TERM PAVEMENT MARKING	FOOT	116
70300150	SHORT TERM PAVEMENT MARKING REMOVAL	SQ FT	39
Δ 72501000	TERMINAL MARKER - DIRECT APPLIED	EACH	4
Δ 78001110	PAINT PAVEMENT MARKING LINE 4"	FOOT	2342
* X0326440	SURFACE REMOVAL, VARIABLE DEPTH (SPECIAL)	SQ YD	1203
Δ * X2300017	STEEL RAILING, TYPE SM (SPECIAL)	FOOT	134
* X4400196	HOT-MIX ASPHALT SURFACE REMOVAL, SPECIAL	SQ YD	3012
* X5030305	CONCRETE WEARING SURFACE, 5"	SQ YD	224
* X7010216	TRAFFIC CONTROL & PROTECTION, (SPECIAL)	L SUM	1
* X7240300	SIGN REMOVAL	EACH	4
* Z0046304	PIPE UNDERDRAIN FOR STRUCTURES, 4"	FOOT	120

* SPECIALTY PROVISION
Δ SPECIALTY ITEM

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STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

SUMMARY OF QUANTITIES
CH 27 (ODD FELLOWS ROAD) OVER KICKAPOO CREEK

SCALE: 2.0000' / in. SHEET OF SHEETS STA. TO STA.

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
7711	17-00170-00-BR	COLES	26	3
CONTRACT NO. 95884			ILLINOIS FED. AID PROJECT	

GENERAL NOTES

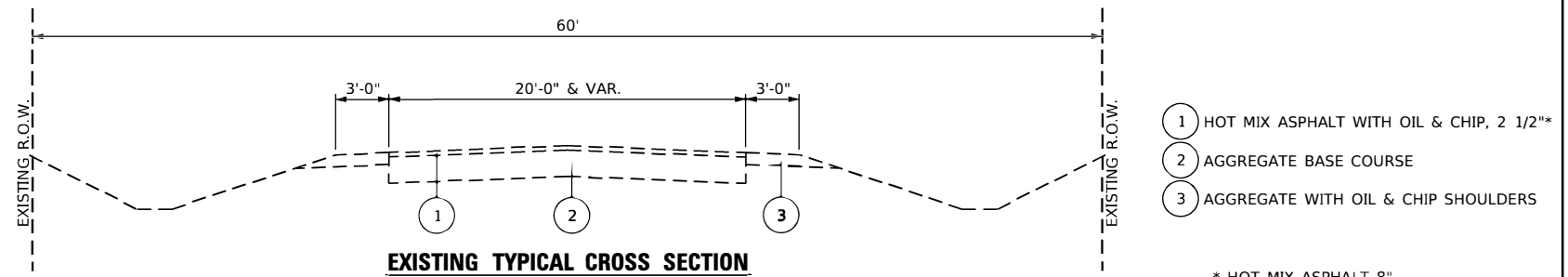
1. TEMPORARY EROSION CONTROL TO BE IMPLEMENTED PER THE PLANS AND AS DIRECTED BY THE ENGINEER.
2. THE CONTRACTOR SHALL PROVIDE POSITIVE DRAINAGE AT ALL TIMES WITHIN THE CONSTRUCTION AREAS AND PREVENT DRAINAGE OR PONDING OF WATER ONTO PRIVATE PROPERTY.
3. ONLY TREES OR SHRUBS MARKED FOR REMOVAL BY THE ENGINEER SHALL BE REMOVED BY THE CONTRACTOR.
4. ALL DISTURBED EARTH SURFACES WITHIN THE LIMITS OF THE R.O.W. AND EASEMENTS SHALL BE SEEDED AS DIRECTED BY THE ENGINEER.

COMMITMENTS

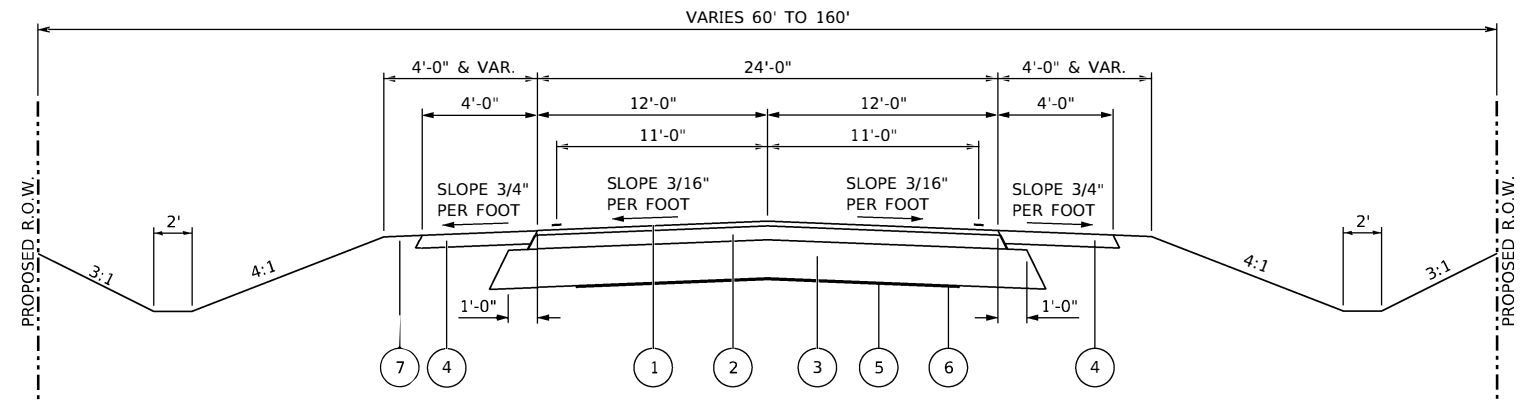
NO COMMITMENTS.

HMA MIXTURE REQUIREMENT TABLE

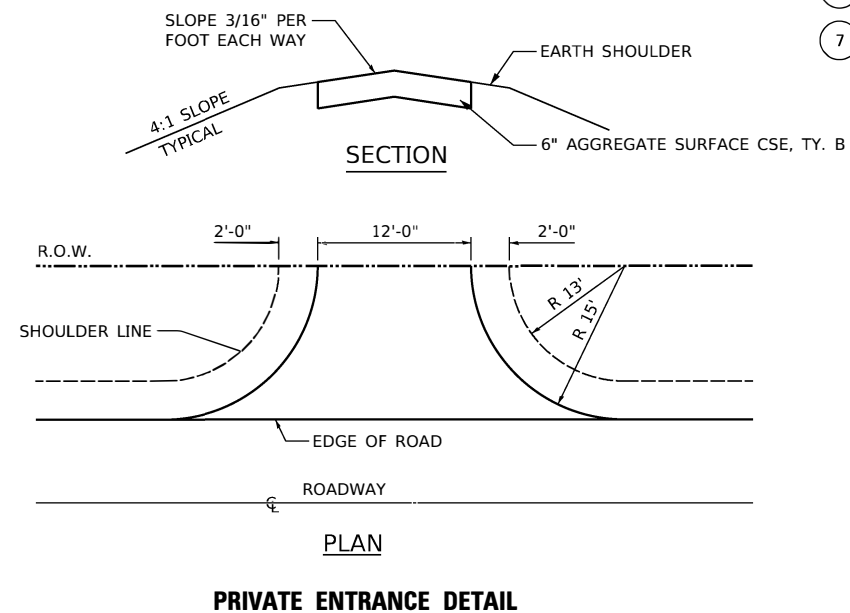
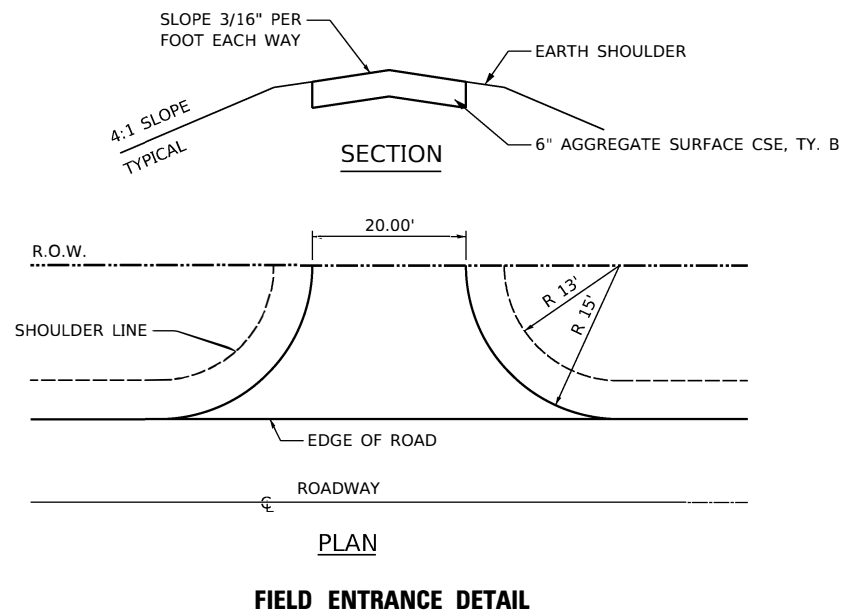
MIXTURE USES:	SURFACE COURSE	BINDER COURSE
FG:	PG 64-22	PG 64-22
DESIGN AIR VOIDS:	4.0% N = 70	4.0% N = 70
MIXTURE COMPOSITIONS: (MIXTURE GRADATIONS)	IL-9.5 FG	IL-19.0
FRICTION AGGREGATE:	MIX "C"	MIX "C"
QUALITY MANAGEMENT PROGRAM:	OC/OA	OC/CA



* HOT MIX ASPHALT 8"
STA: 14+52.5 TO STA: 14+82.5
STA: 15+17.5 TO STA: 15+47.5



- 1 HMA SURFACE COURSE, IL-9.5 FG, MIX "C", N70, 1 1/2"
- 2 HMA BINDER COURSE, IL 19.0, N70, 5"
- 3 AGGREGATE BASE COURSE, TYPE A, 12"
- 4 AGGREGATE SHOULDERS, TYPE A, 6"
- 5 SURFACE REMOVAL, VARIABLE DEPTH (SPECIAL)
STA: 11+67 TO STA: 14+52.5, STA: 15+47.5 TO STA: 18+03
- 6 HOT MIX ASPHALT SURFACE REMOVAL, SPECIAL
STA: 9+00 TO STA: 11+67, STA: 18+03 TO STA: 20+00
- 7 EARTH SHOULDER



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PLOT SCALE = 10.0000 ' / in.	DATE - AUG. 25, 2020	REVISED -
PLOT DATE = 10/15/2020		

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**GENERAL NOTES AND TYPICAL SECTIONS
CH 27 (ODD FELLOWS ROAD) OVER KICKAPOO CREEK**
SCALE: 10.0000 ' / in. SHEET OF SHEETS STA. TO STA.

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
7711	17-00170-00-BR	COLES	26	4
CONTRACT NO. 95884			ILLINOIS FED. AID PROJECT	

EARTHWORK SCHEDULE

1 LOCATION	2 EARTH EXCAVATION CU YD	3 STRUCTURE EXCAVATION CU YD	4 CHANNEL EXCAVATION CU YD	5 EARTH EXCAVATION ADJUSTED FOR SHRINKAGE CU YD	6 EMBANKMENT CU YD	7 EARTHWORK BALANCE WASTE (+) OR SHORTAGE (-) CU YD
STA 9+00 TO STA 20+00	3723	52	385	2832	996	1836
TOTAL	3723	52	385	2832	996	1836

COLUMN 1,2,&6 - LOCATION AND QUANTITIES FROM CROSS SECTIONS,
CUT = EARTH EXCAVATION FILL = EMBANKMENT
COLUMN 3 - QUANTITIES OF STRUCTURAL EXCAVATION (CUT) FROM BRIDGE PLANS
COLUMN 4 - QUANTITY OF CHANNEL EXCAVATION (CUT) IS UNSUITABLE MATERIAL FOR USE AS FILL
COLUMN 5 - QUANTITY OF EARTH EXCAVATION (CUT) ADJUSTED FOR A SHRINKAGE FACTOR OF 25%
COLUMN 7 - EARTHWORK BALANCE (-) = QUANTITY OF FURNISHED EXCAVATION NEEDED EARTHWORK BALANCE
(+) = QUANTITY OF EARTH EXCAVATION ADJUSTED FOR SHRINKAGE TO BE WASTED

*COST OF DISPOSING EXCESS CHANNEL AND STRUCTURE EXCAVATION SHALL BE INCLUDED IN COST OF EARTH EXCAVATION.

AGGREGATE BASE COURSE SCHEDULE

LOCATION				35101100 AGGREGATE BASE COURSE, TY A, 12"
STATION	TO	STATION	LT/RT	SQ YD
9+00		9+50	LT/RT	133.3
9+50		14+82.03	LT/RT	1537.0
15+17.80		19+50	LT/RT	1248.6
19+50		20+00	LT/RT	133.3
TOTAL				3052.2

AGG. SURFACE COURSE SCHEDULE

LOCATION		40200100 AGGREGATE SURFACE COURSE, TY A
STATION	LT/RT	TON
13+57	RT	52.0
14+02	LT	55.2
15+80	RT	55.3
17+85	LT	25.3
TOTAL		187.8

BITUMINOUS MATERIALS (PRIME COAT) SCHEDULE

LOCATION						40600275 BITUMINOUS MATERIALS (PRIME COAT) POUND
STATION	TO	STATION	LT/RT	SO FT	APP(S)	POUND
10+92.41		14+67.5	LT/RT	9002	1	2250.5
15+32.5		18+66.58	LT/RT	8018	1	2004.5
TOTAL						4255.0

HOT-MIX ASPHALT SURFACE COURSE SCHEDULE

LOCATION					40604002 HOT-MIX ASPHALT SURFACE COURSE, IL 9.5FG, MIX "C", N70 TON
STATION	TO	STATION	SQ FT	DEPTH INCH	TON
9+00		9+50	1113	1.5	12.1
9+50		14+82.03	12990	1.5	140.7
15+17.80		19+50	10481	1.5	113.5
19+50		20+00	1113	1.5	12.1
TOTAL					278.4

BITUMINOUS MATERIALS (TACK COAT) SCHEDULE

LOCATION						40600290 BITUMINOUS MATERIALS (TACK COAT) POUND
STATION	TO	STATION	SQ FT	APP(S)	POUND	
9+00		9+86.78	1987	1	49.7	
9+86.78		10+22.75	863	1	21.6	
10+22.75		10+92.41	1672	3	125.4	
10+92.41		14+67.50	9002	3	675.2	
15+32.50		18+66.58	8018	3	601.3	
18+66.58		19+33.59	1608	3	120.6	
19+33.59		19+66.55	780	1	19.5	
19+66.55		20+00	715	1	17.9	
TOTAL						1631.2

HOT-MIX ASPHALT BINDER COURSE SCHEDULE

LOCATION					40603085 HOT-MIX ASPHALT BINDER CSE, IL-19.0, N70 TON
STATION	TO	STATION	SQ FT	DEPTH INCH	TON
9+00		9+50	1121	5.0	40.5
9+50		14+82.03	12990	5.0	469.1
15+17.80		19+50	10553	5.0	381.1
19+50		20+00	1121	5.0	40.5
TOTAL					931.2

PAVEMENT REMOVAL SCHEDULE

LOCATION				LENGTH	WIDTH	44000100 PAVEMENT REMOVAL SQ YD
STATION	TO	STATION	LT/RT	FOOT	FOOT	SQ YD
14+52.5		14+82.5	LT/RT	30	20.0	66.7
15+17.5		15+47.5	LT/RT	30	20.0	66.7
TOTAL						133.4

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PLOT DATE = 10/15/2020	CHECKED - SAL	REVISED -
	DATE - AUG. 25, 2020	REVISED -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

SCHEDULE OF QUANTITIES			
CH 27 (ODD FELLOWS ROAD) OVER KICKAPOO CREEK			
SCALE: 2.0000' / in.	SHEET	OF SHEETS	STA. TO STA.

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
7711	17-00170-00-BR	COLES	26	5
CONTRACT NO. 95884				
ILLINOIS FED. AID PROJECT				

AGGREGATE SHOULDERS SCHEDULE							
LOCATION		LENGTH	WIDTH	48100500 AGGREGATE SHOULDERS, TYPE A 6"			
STATION	TO	STATION	LT/RT	FOOT	FOOT	SQ YD	
9+00		9+50	RT	50	VAR	12.7	
9+50		13+32	RT	382	4	169.8	
13+32		13+82	RT	VAR	VAR	30.0	
13+82		14+67.50	RT	85.5	4	38.0	
15+32.50		15+55	RT	22.5	4	10.0	
15+55		16+05	RT	VAR	VAR	32.2	
16+05		19+50	RT	345	4	153.3	
19+50		20+00	RT	VAR	VAR	11.6	
TOTAL							911.6
9+00		9+50	LT	50	VAR	13.5	
9+50		13+77	LT	427	4	189.8	
13+77		14+27	LT	VAR	VAR	30.0	
14+27		14+67.50	LT	40.5	4	18.0	
15+32.50		17+63.85	LT	231.4	4	102.8	
17+63.85		18+05.85	LT	VAR	VAR	26.4	
18+05.85		19+50	LT	144.15	4	64.1	
19+50		20+00	LT	VAR	VAR	9.4	
TOTAL							911.6

PAVEMENT MARKINGS								
LOCATION		LENGTH	70300100		70300150	78001110		
STATION		TO	STATION	LT/RT	FOOT	SHORT TERM PAVEMENT MARKING	SHORT TERM PAVEMENT MARKING REMOVAL	PAINT PAVEMENT MARKING - LINE 4"
9+00			20+00	LT	1100.0			1100.0
9+00			20+00	RT	1100.0			1100.0
9+00			20+00	CENTER	1100.0	116.0	38.6	142.0
TOTALS						116.0	38.6	2342.0

CULVERT REMOVAL SCHEDULE			
LOCATION			50105220
STATION			PIPE CULVERT REMOVAL
13+99.74		RT	20.0
14+00.41		LT	33.0
17+85		LT	104.0
TOTAL			157.0

SEEDING SCHEDULES										
LOCATION				25000200	25000400	25000500	25000600	25100115	28000250	
STATION				SEEDING, CLASS 2	NITROGEN FERTILIZER NUTRIENT	PHOSPHORUS FERTILIZER NUTRIENT	POTASSIUM FERTILIZER NUTRIENT	MULCH, METHOD 2	TEMP EROSION CONTROL SEEDING	
9+00			20+00	RT	0.72	64.8	64.8	64.8	0.72	72.0
9+00			20+00	LT	0.78	70.2	70.2	70.2	0.78	78.0
TOTALS					1.50	135.0	135.0	135.0	1.50	150.0

SIGN REMOVAL SCHEDULE		
LOCATION		X7010216
STATION		SIGN REMOVAL
14+78		2
15+24		2
TOTAL		4

HMA SURFACE REMOVAL SCHEDULE					
LOCATION		X0326440	X4400157		
STATION		SURFACE REMOVAL, VARIABLE DEPTH (SPECIAL)	HOT-MIX ASPHALT SURFACE REMOVAL, SPECIAL		
9+00					2573.3
11+67					634.4
15+47.5					567.8
18+03					437.8
TOTALS					3011.1
9+00					634.4
15+47.5					567.8
18+03					437.8
TOTALS					1202.2

GUARDRAIL SCHEDULE							
LOCATION				63100075	63000001	63100169	
STATION				TRAFFIC BARRIER TERMINAL, TYPE 5A	STEEL PLATE BEAM GUARDRAIL, TYPE A, 6 FOOT POSTS	TRAFFIC BARRIER TERMINAL, TYPE 1 (SPECIAL) FLARED	
13+78.25			22.0' RT				1.0
14+15.75			18.0' RT				37.5
14+53.25			16.63' RT		1.0		
15+33.5			16' LT		1.0		
15+46.75			16.63' LT				37.5
15+84.25			18.0' RT				1.0
16+21.75			22.0' RT				1.0
TOTALS					2.0		75.0

* TAPER GUARDRAIL 1:21 UNTIL RAIL IS OFFSET 18 FT; OFFSET IS TO FACE OF RAIL

LENGTH OF NEED:
STATION 13+90.75 20.7' RT & STATION 16+09.25 20.7' LT

SCHEDULE OF CULVERTS					
STATION & OFFSET		USFL	DSFL	542D0229	
STATION & OFFSET		USFL	DSFL	PIPE CULVERTS, CL D. TY 1, 24" (CMP)	
13+18.26 42.76' RT	13+85.81 50.59' RT	693.73	692.67	68	
13+73.97 41.27' LT	14+31.97 44.05' LT	693.71	692.95	58	
15+24.26 59.79' RT	16+10.86 51.48' RT	691.2	689.14	87	
17+55.37 39.51' LT	18+98 29.27' LT	695.38	694.10	143	
TOTAL				356	

PIPE UNDERDRAIN SCHEDULE			
LOCATION		50105220	Z0046304
STATION		CONCRETE HEADWALL FOR PIPE DRAINS	PIPE UNDERDRAIN FOR STRUCTURES, 4"
13+99.74			60.0
14+00.41			60.0
TOTALS			120.0
13+99.74			60.0
14+00.41			60.0
TOTALS			120.0

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 DRAWING: Schedule of Quantities.dgn
 DATE: 10/15/2020

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USER NAME = Sta34
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 DRAWN - TLW
 CHECKED - SAL
 DATE - AUG. 25, 2020
 PLOT SCALE = 2.0000' / in.
 PLOT DATE = 10/15/2020

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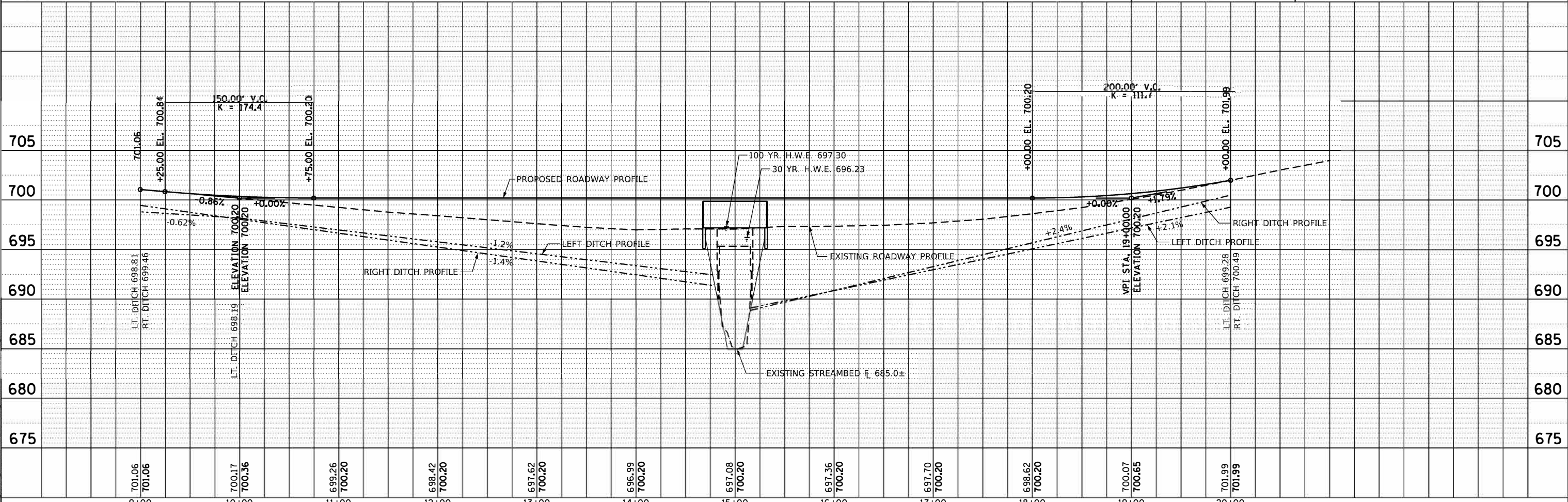
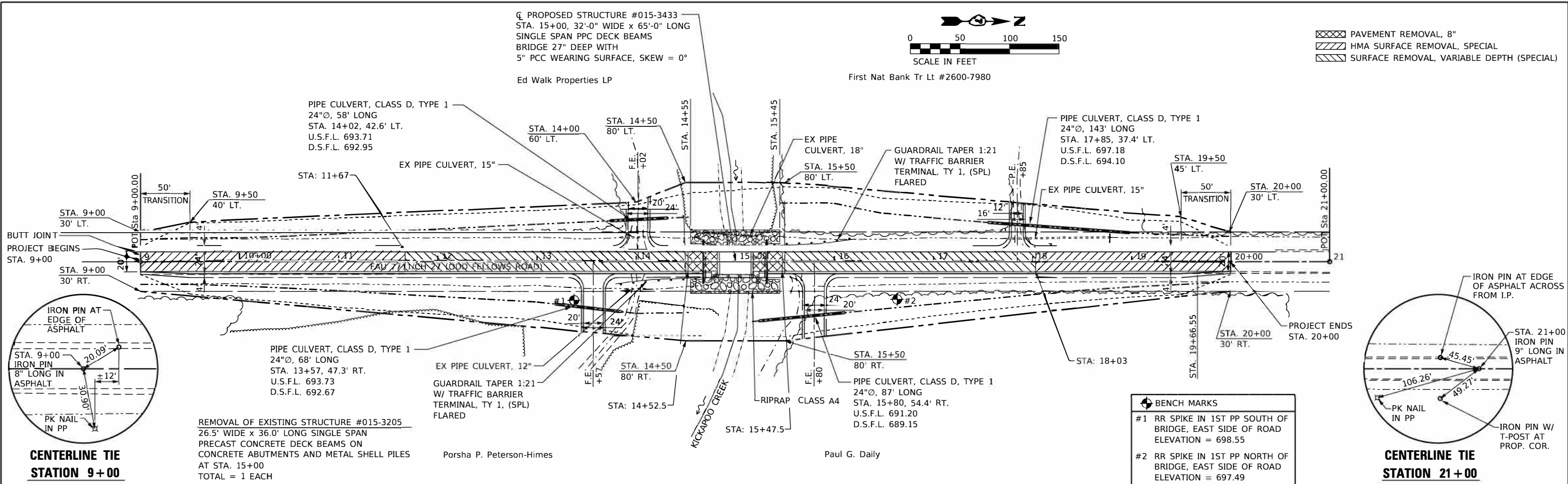
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

SCHEDULE OF QUANTITIES
CH 27 (ODD FELLOWS ROAD) OVER KICKAPOO CREEK
 SCALE: 2.0000' / in. SHEET OF SHEETS STA. TO STA.

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
7711	17-00170-00-BR	COLES	26	6
CONTRACT NO. 95884			ILLINOIS FED. AID PROJECT	

DATE	
BY	
PLAN	SURVEYED
	PLOTTED
	ALIGNED
	CHECKED
	DATE
	NO.
	NO.
	NO.
	NO.

DATE	
BY	
PROFILE	SURVEYED
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	STRUCTURE NOTATION
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	NO.
	NO.
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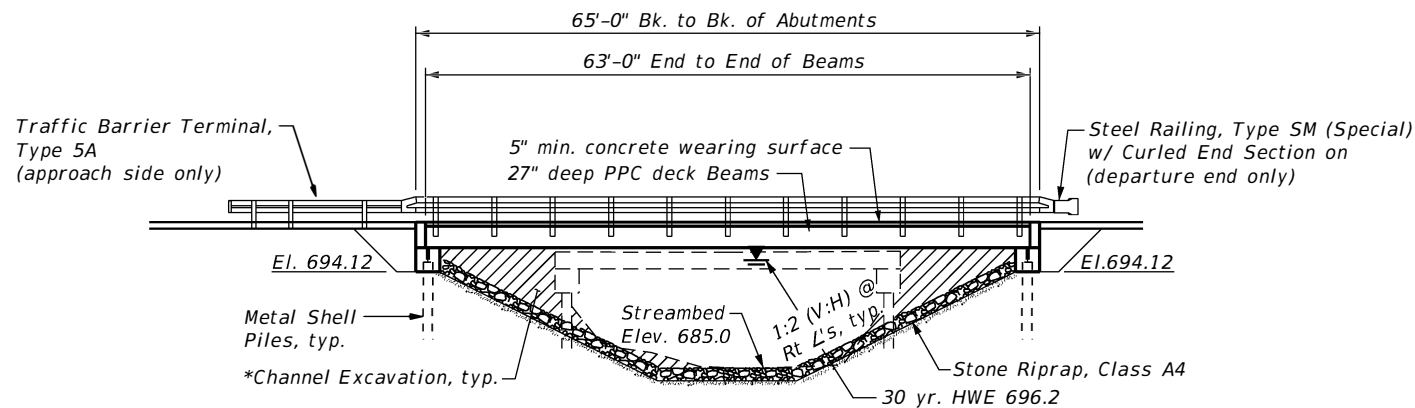


The Upchurch Group architects engineers surveyors Professional Design 123 North 15th Street Matteson, IL 61938 Phone: 312-235-3177 License No. 184-003401 e-mail: upchurchgroup@upchurchgroup.com		USER NAME = Sta34 DESIGNED - DRAWN - CHECKED - DATE -	REVISED - REVISED - REVISED - REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	PLAN AND PROFILE CH 27 (ODD FELLOWS ROAD) OVER KICKAPOO CREEK SCALE: 100.0000' / 1" SHEET OF SHEETS STA. TO STA.	F.A. RTE. 7711 SECTION 17-00170-00-BR COUNTY COLES TOTAL SHEETS 26 SHEET NO. 7 CONTRACT NO. 95884 ILLINOIS FED. AID PROJECT
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Bench Marks: RR spike in 1st PP south of bridge at Sta. 13+32, 35.8' Rt.±, Elev. 698.55, & RR spike in 1st PP north of bridge at Sta. 16+63, 29.7' Rt.±, Elev. 697.49

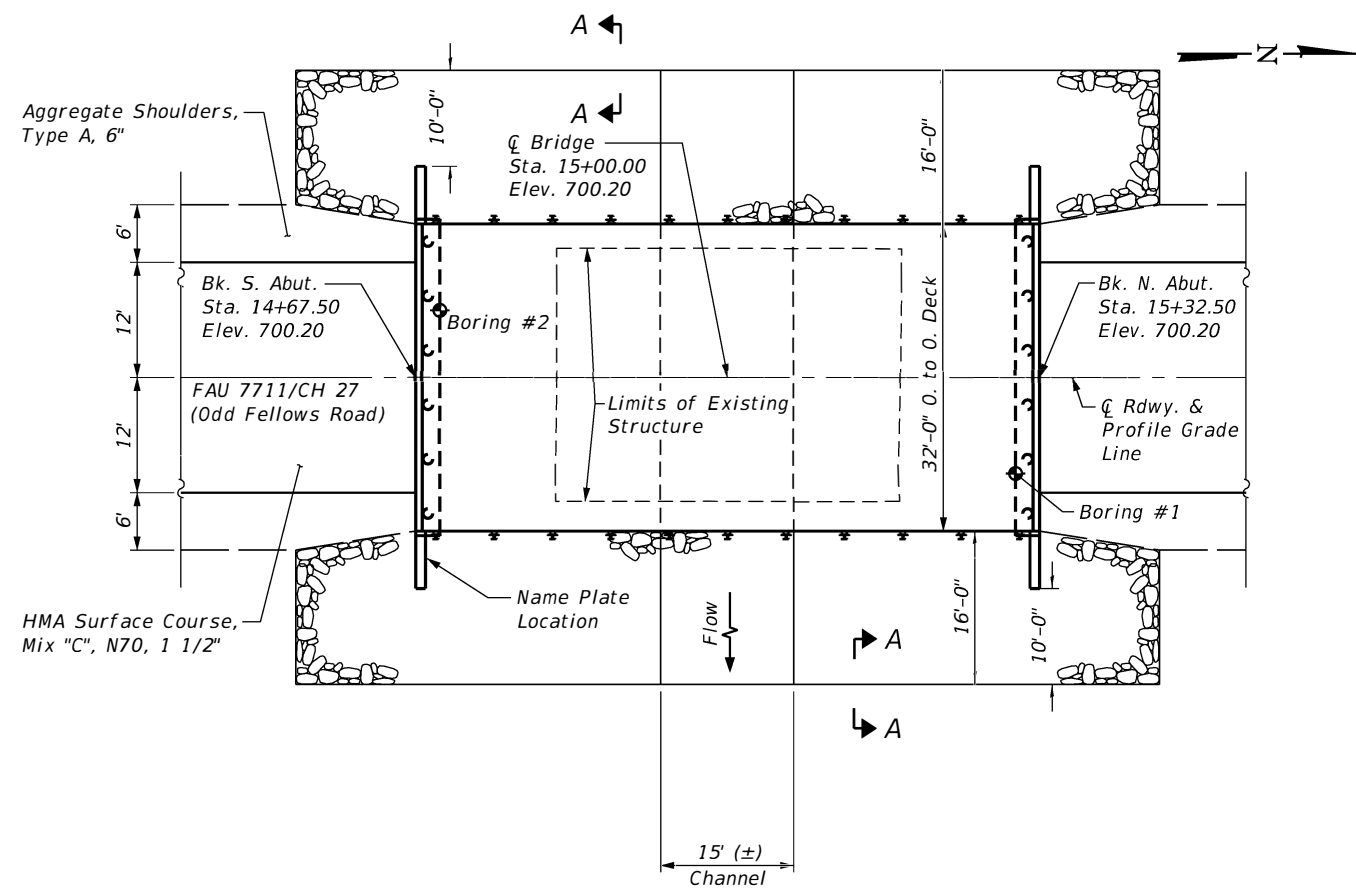
Existing Structure: S.N. 015-3205 was built in 1975. Existing structure is a single span precast concrete deck beam bridge on concrete pile bent abutments with metal shell piles, timber backwalls and wingwalls, 36.0' back to back abutments, and 26.5' width of deck. Road shall be closed to traffic during construction.

No Salvage.

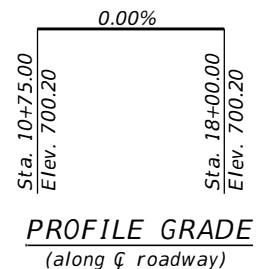


*Channel shall be excavated as shown with 2:1 slopes within the ROW. Suitable excavated materials may be used in embankments.

ELEVATION



PLAN



WATERWAY INFORMATION

Flood	Freq. Yr.	Q C.F.S.	Opening Ft ²		Nat. H.W.E.	Head - Ft.		Headwater El.	
			Exist.	Prop.		Exist.	Prop.	Exist.	Prop.
Design	30	1898	286	423	696.2	0.3	0.1	696.5	696.3
Base									
Scour Design Check	100	2570	286	482	697.3	0.8	0.2	698.1	697.5
Overtopping									
Max. Calc.	500	3502	286	482	698.4	0.6	0.6	699.0	699.0

10 year velocity through existing bridge = 4.3 fps
10 year velocity through proposed bridge = 3.4 fps

DESIGN SPECIFICATIONS
2014 AASHTO LRFD Bridge Design Specifications, 7th Edition with 2015 and 2016 Interims

LOADING HL-93

Allow 50#/sq. ft. for future wearing surface.

DESIGN STRESSES

FIELD UNITS

f'c = 3,500 psi
f'c = 5,000 psi (Concrete Wearing Surface)
fy = 60,000 psi (Reinforcement)

PRECAST PRESTRESSED UNITS

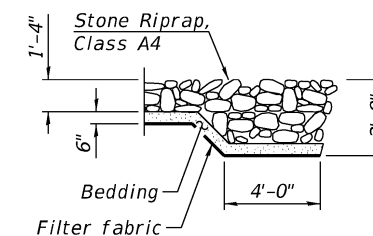
f'c = 6,000 psi
f'ci = 5,000 psi
f's = 270,000 psi (1/2" Ø low lax. strands)
f si = 201,960 psi (1/2" Ø low lax. strands)

SEISMIC DATA

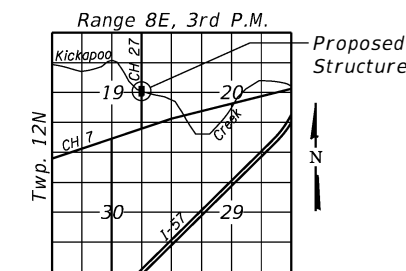
Seismic Performance Zone (SPZ) = 2
Design Spectral Acceleration at 1.0 sec. (SD1) = 0.177g
Design Spectral Acceleration at 0.2 sec. (SDS) = 0.365g
Soil Site Class = D

DESIGN SCOUR ELEVATION TABLE

Design Scour Elevation (ft.)	S. Abut.	N. Abut.
	694.12	694.12



SECTION A-A



LOCATION SKETCH

INDEX OF SHEETS

- 1 General Plan and Elevation
- 2 General Data
- 3 27" x 48" PPC Deck Beam
- 4 27" x 48" PPC Deck Beam Details
- 5 Superstructure
- 6 Superstructure Details
- 7-8 Steel Railing, Type SM (Special) with Concrete Wearing Surface
- 9 Abutments
- 10 Metal Shell Pile Details
- 11-12 Soil Borings

I certify that to the best of my knowledge, information and belief, this bridge 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 the requirements of the current AASHTO - Standard Specifications for Highway Bridges.

Martin J. Silvester

Martin J. Silvester
Licensed Structural Engineer
State of Illinois No. 081-004873
Expires 11-30-2020



GENERAL PLAN AND ELEVATION
C.H. 27 OVER KICKAPOO CREEK
SEC. 17-00170-00-BR
COLES COUNTY
STATION 15+00.00
STRUCTURE NO. 015-3433

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STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

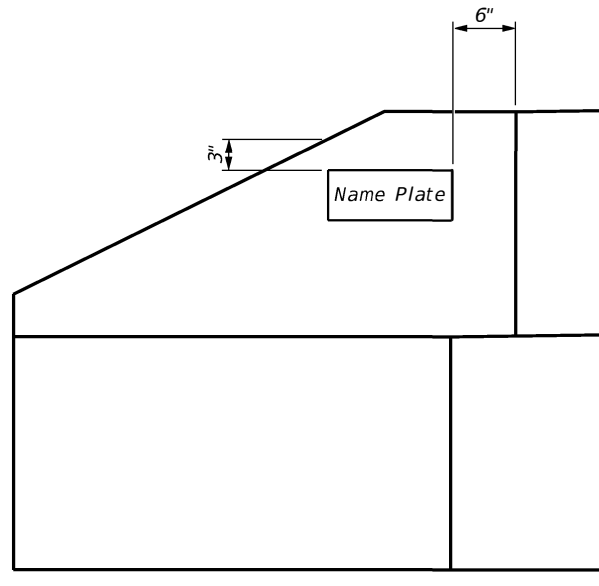
GENERAL PLAN AND ELEVATION
STRUCTURE NO. 015-3433

SCALE: 20.0000' / in. SHEET 1 OF 12 SHEETS STA. TO STA.

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
7711	17-00170-00-BR	COLES	26	8
CONTRACT NO. 95884				
ILLINOIS FED. AID PROJECT				

GENERAL NOTES

1. Reinforcement bars designated (E) shall be epoxy coated.
2. Layout of the slope protection system may be varied to suit ground conditions in the field as directed by the Engineer.
3. The Contractor shall drive one test pile in a permanent location at the North and South Abutments to 110% of the nominal required bearing specified as directed by the Engineer in the field prior to ordering the remainder of piles.



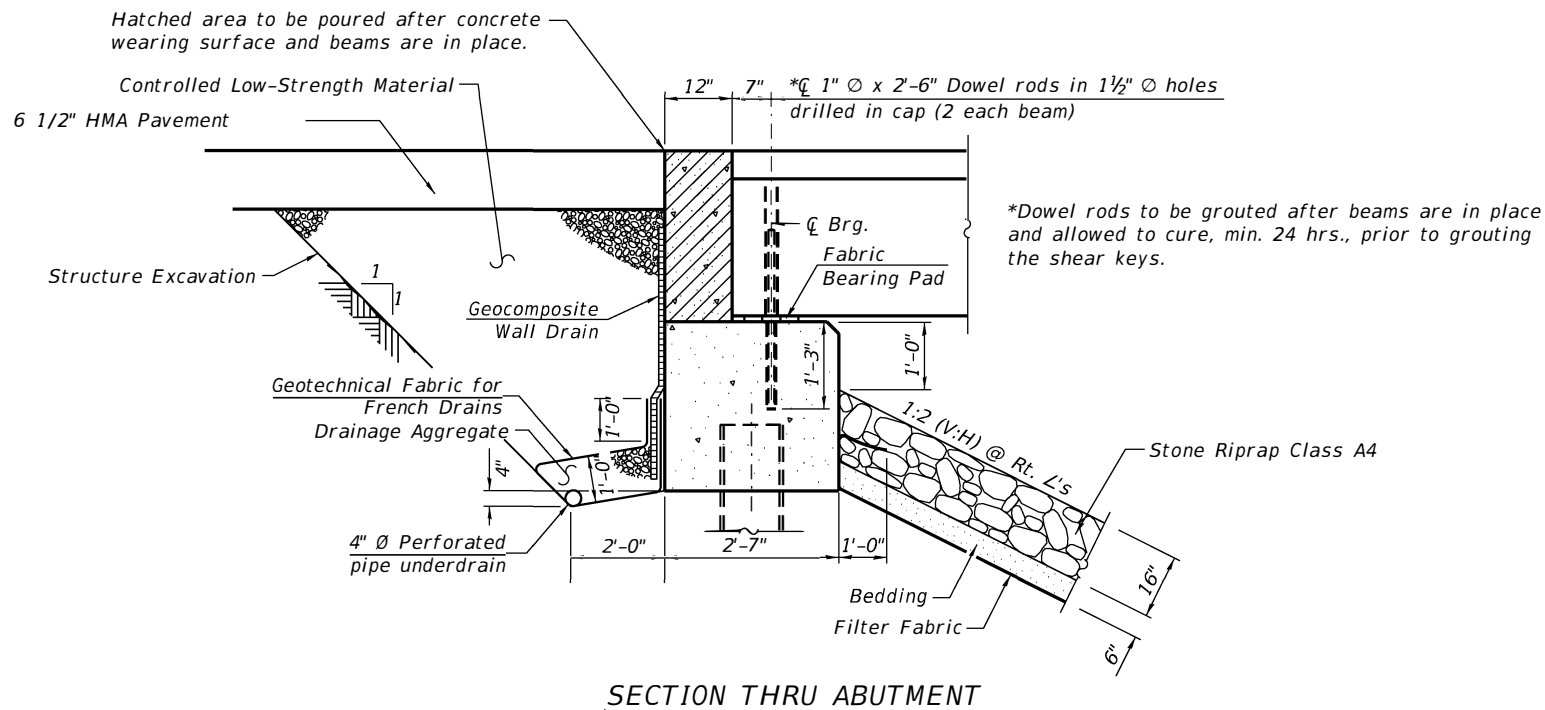
SOUTHEAST WINGWALL ELEVATION

CH 27 OVER KICKAPOO CREEK
 BUILT 20 BY
 COLES COUNTY
 SEC. 17-00170-00-BR
 STR. NO. 015-3433 LOADING HL-93

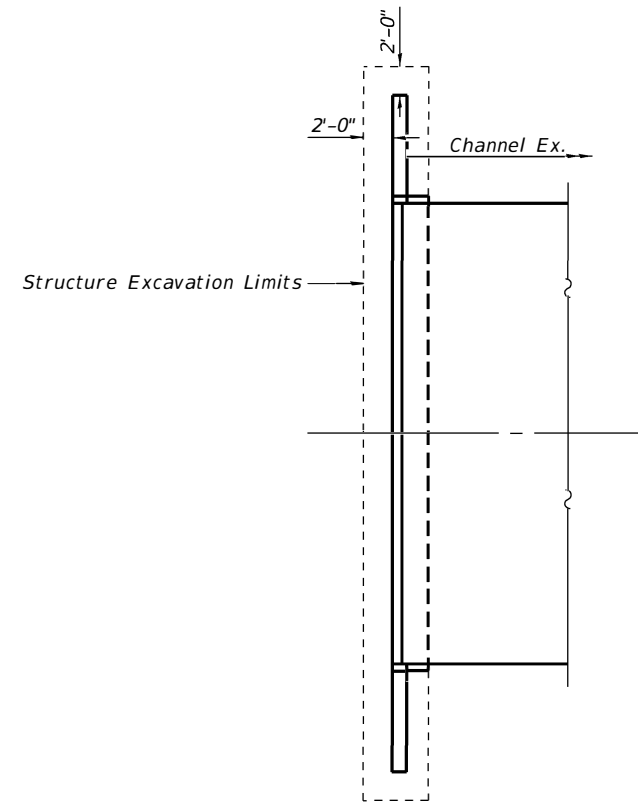
NAME PLATE
 See Std. 515001

TOTAL BILL OF MATERIAL

ITEM	UNIT	SUPER	SUB	TOTAL
Channel Excavation	Cu. Yd.			385
Stone Riprap, Class A4	Sq. Yd.		331	331
Filter Fabric	Sq. Yd.		331	331
Removal of Existing Structures	Each	1		1
Structure Excavation	Cu. Yd.		52	52
Concrete Structures	Cu. Yd.		32	32
Precast Prestressed Concrete Deck Beams (27" Depth)	Sq. Ft.	2016		2016
Reinforcement Bars, Epoxy Coated	Pound	2880	4170	7050
Steel Railing, Type SM (Special)	Foot	134		134
Furnishing Metal Shell Piles, 14" x 0.250	Foot		590	590
Driving Piles	Foot		590	590
Test Pile, Metal Shell	Each		2	2
Name Plates	Each		1	1
Controlled Low-Strength Material	Cu. Yd.		38	38
Bridge Deck Grooving	Sq. Yd.	217		217
Protective Coat	Sq. Yd.	232		232
Concrete Wearing Surface, 5"	Sq. Yd.	224		224
Geocomposite Wall Drain	Sq. Yd.		38	38
Pipe Underdrain for Structure, 4"	Foot		120	120



SECTION THRU ABUTMENT



PARTIAL PLAN
 (Showing Excavation Limits)

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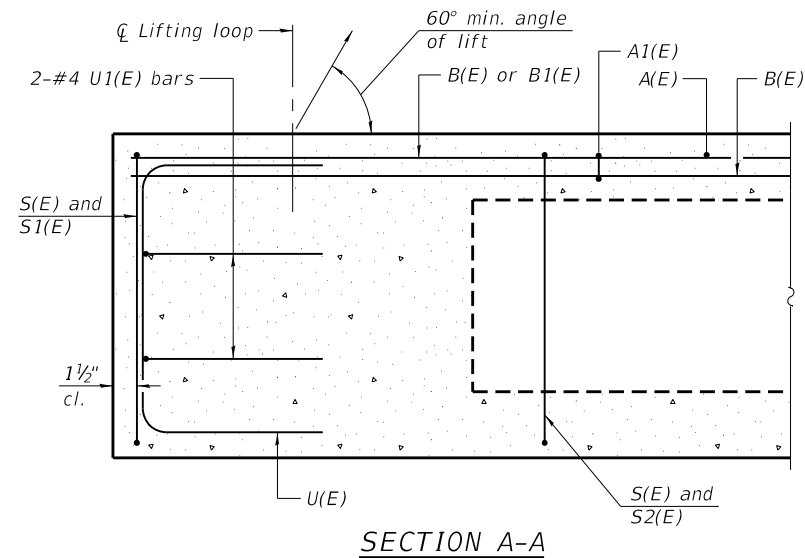
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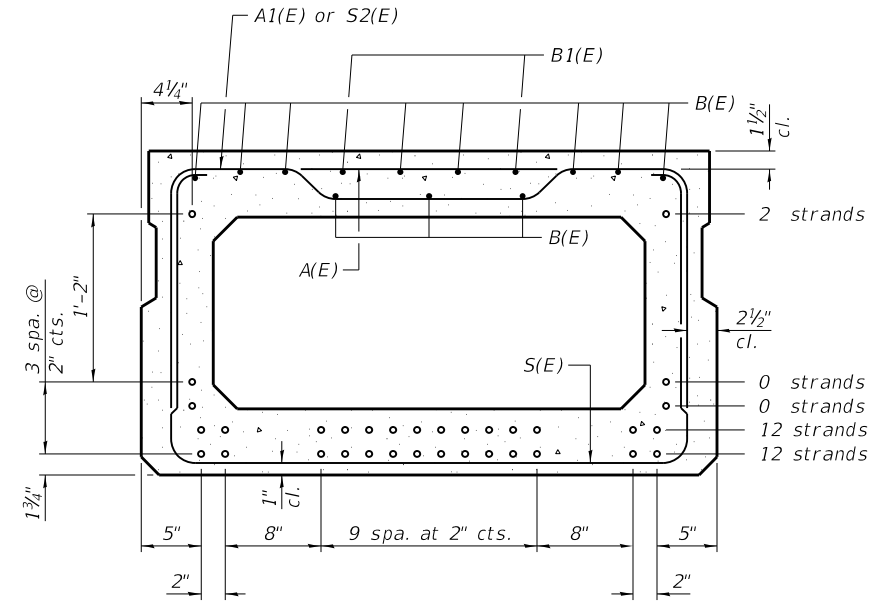
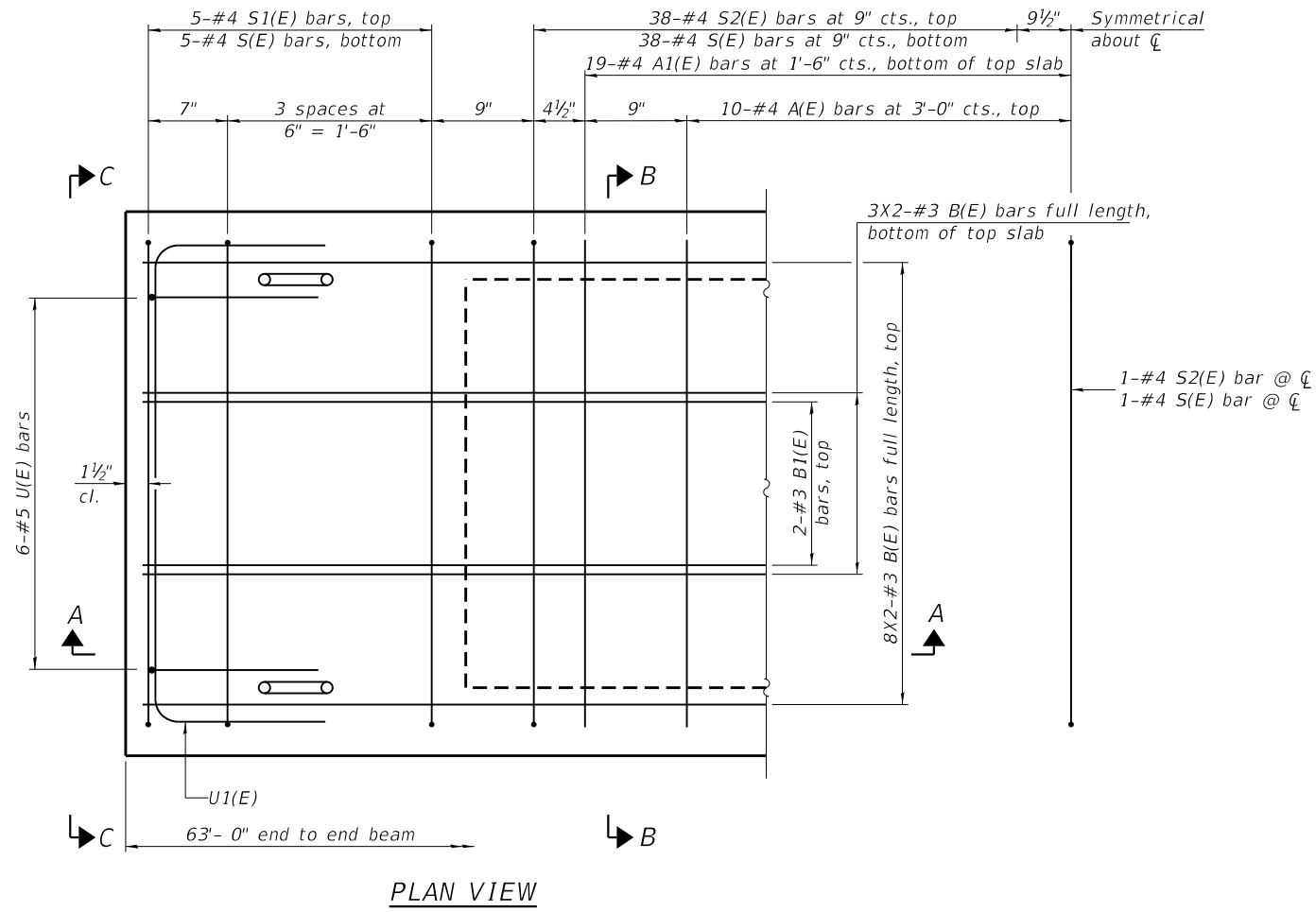
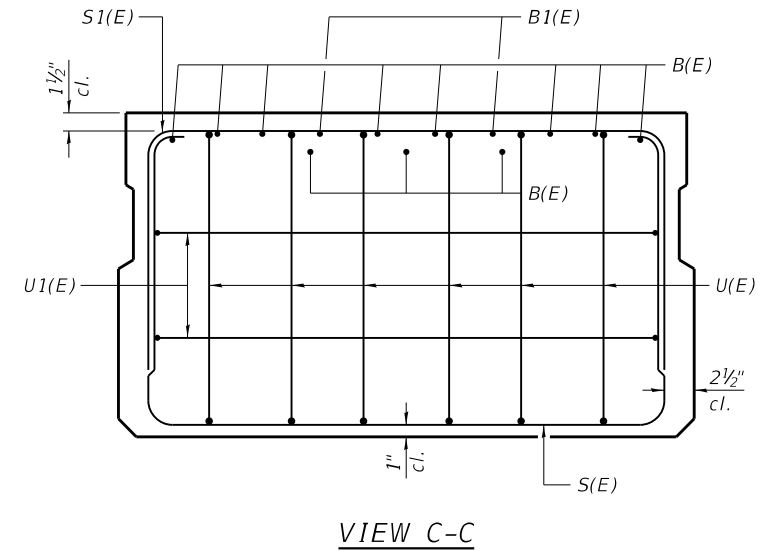
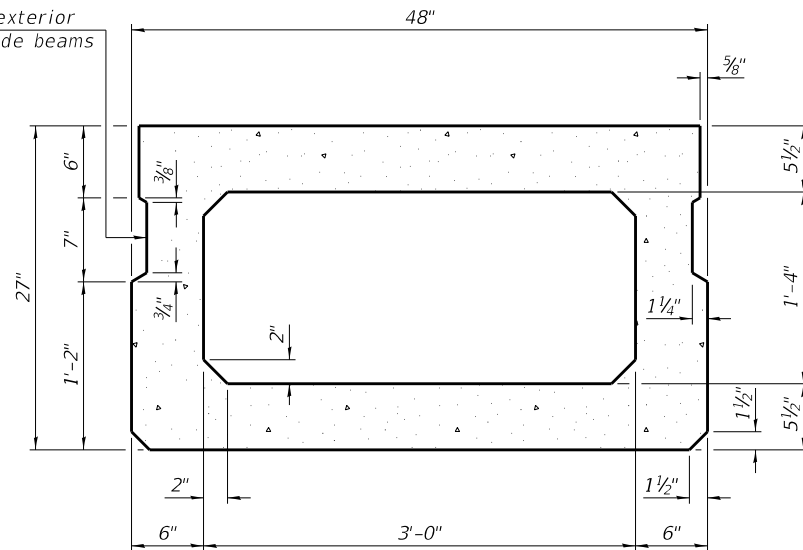
STATE OF ILLINOIS
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F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
7711	17-00170-00-BR	COLES	26	9
CONTRACT NO. 95884			ILLINOIS FED. AID PROJECT	



Omit key on exterior face of outside beams



BAR LIST
ONE BEAM ONLY
(For information only)

Bar	No.	Size	Length	Shape
A(E)	20	#4	3'-7"	—
A1(E)	38	#4	3'-10"	—
B(E)	22	#3	32'-2"	—
B1(E)	4	#3	10'-0"	—
D(E)	22	#4	2'-9"	┌
S(E)	87	#4	8'-5"	┌
S1(E)	10	#4	6'-11"	┌
S2(E)	77	#4	7'-2"	┌
U(E)	12	#5	4'-6"	┌
U1(E)	4	#4	6'-0"	┌

SECTION B-B
(Showing reinforcement and permissible strand locations)
Note:
Place the number of strands specified in each row symmetrically about the centerline of beam in the permissible strand locations shown.

MINIMUM BAR LAP
#3 bar = 1'-6"

Note:
Spacing of S(E) and S2(E) bars may be adjusted up to 4" in the immediate area of the transverse tie diaphragms to miss the block outs for the transverse ties.

Note:
See sheet 4 of 12 for additional details and Bill of Material.
See sheet 6 of 12 for details of D(E) bars.
* Fascia beams only.

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PD-2748-0

1-1-2020

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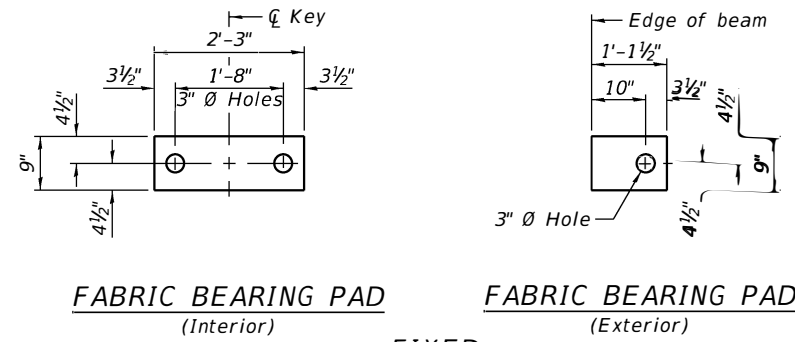
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STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

27" x 48" PPC DECK BEAM
STRUCTURE NO. 015-3433

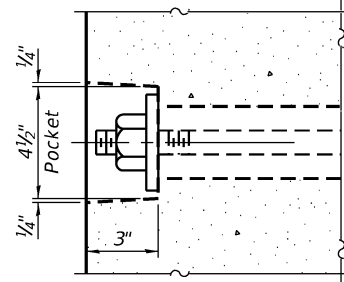
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CONTRACT NO. 95844			ILLINOIS FED. AID PROJECT	

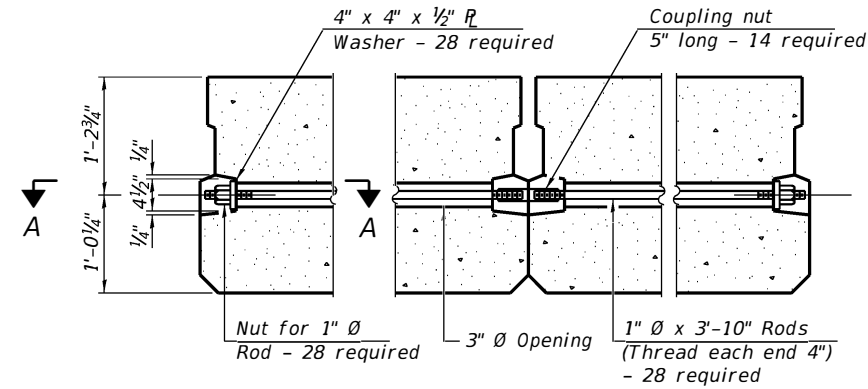


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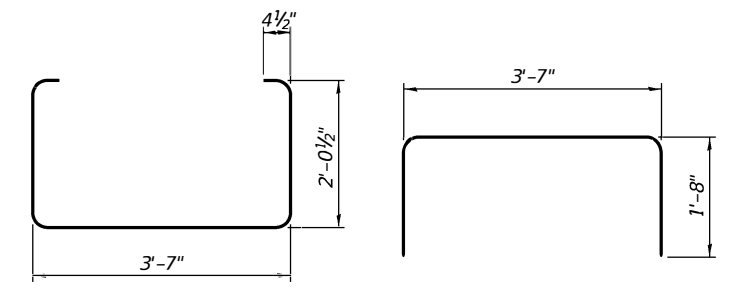
Notes:
 All bearing pads shall be 1" thick.
 Omit holes when using expansion bearings.
 Expansion bearing pads shall be bonded to the substructure.



SECTION A-A

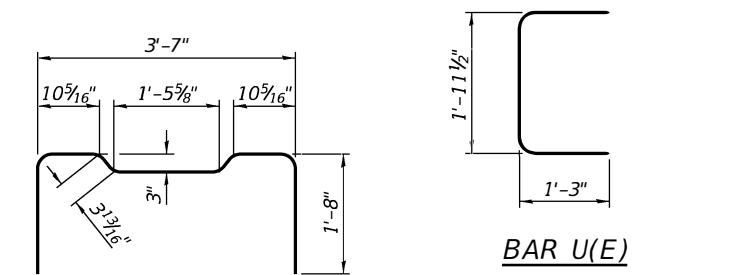


TYPICAL TRANSVERSE TIE ASSEMBLY



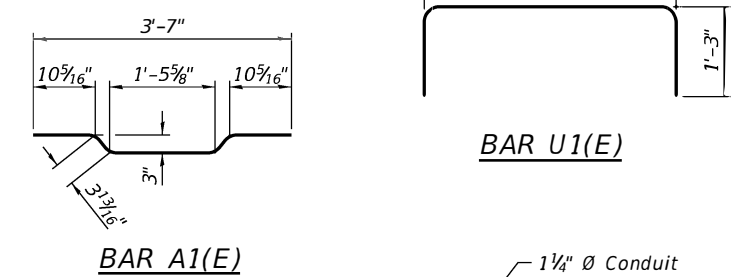
BAR S(E)

BAR S1(E)



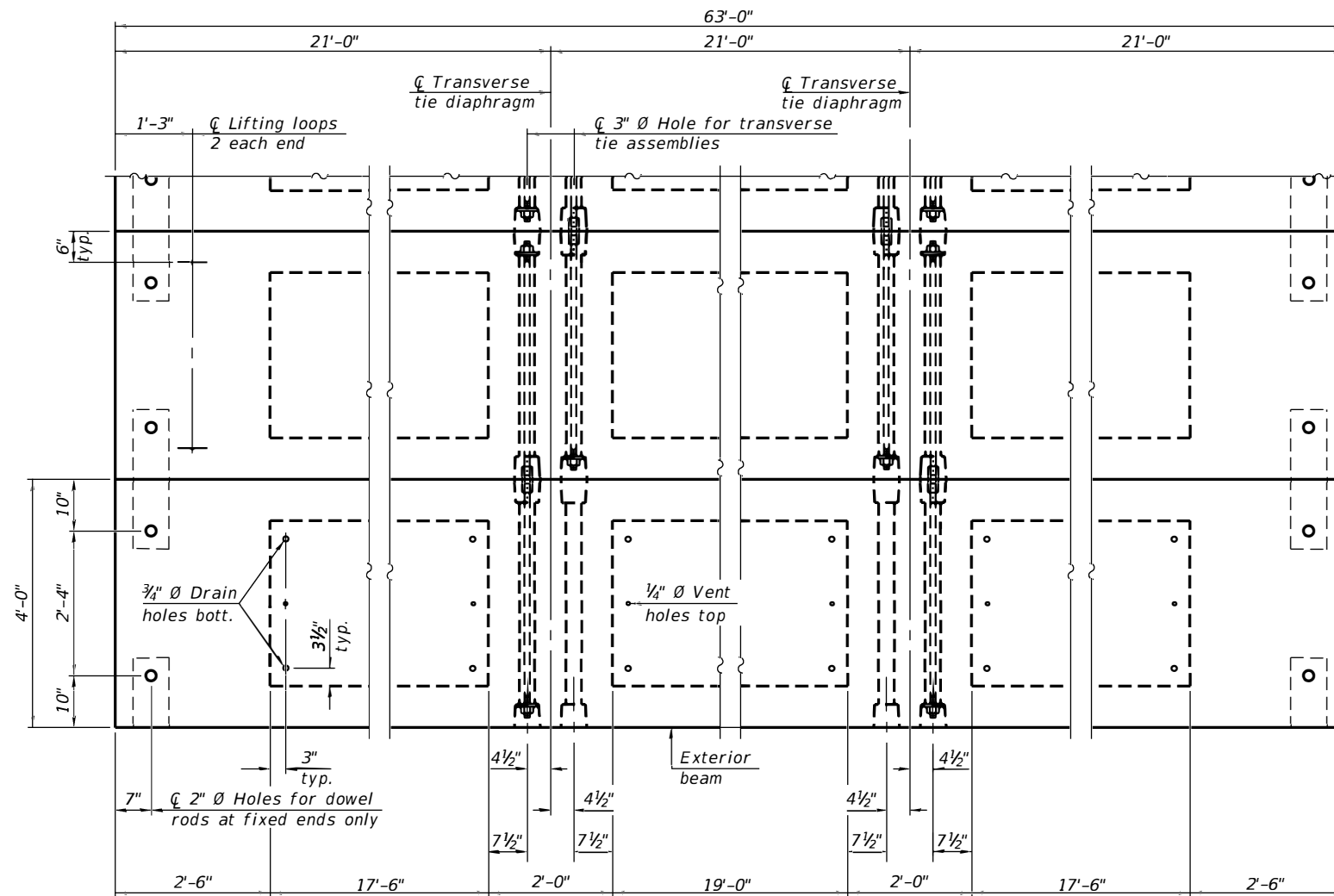
BAR S2(E)

BAR U(E)



BAR A1(E)

BAR U1(E)

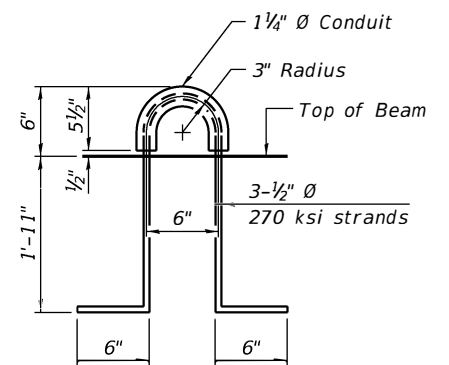


PLAN VIEW

Note:
 Connect beams in pairs with the transverse tie configuration shown.

NOTES

- Prestressing steel shall be uncoated high strength, low relaxation 7-wire strand, Grade 270. The nominal diameter shall be 1/2" and the nominal cross-sectional area shall be 0.153 sq. in.
- The 1" Ø rods in the transverse tie assembly shall be tightened to a snug fit and the threads set. Pockets on exterior faces of bridge shall be filled with grout after transverse tie assembly is in place.
- Two 1/8" fabric adjusting shims of the dimensions of the exterior bearing pad shall be provided for each bearing pad location.
- A minimum 2 1/2" Ø lifting pin shall be used to engage the lifting loops during handling.
- Corrosion Inhibitor, per Article 1020.05(b)(10) and 1021.07 of the Standard Specifications, shall be used in the concrete for precast prestressed concrete deck beams.
- Compressive strength of prestressed concrete, f'c, shall be 6000 psi.
- Compressive strength of prestressed concrete at release, f'ci, shall be 5000 psi.



LIFTING LOOP DETAIL

BILL OF MATERIAL

Precast Prestressed Conc. Deck Bms. (27" depth)	Sq. Ft.	2016
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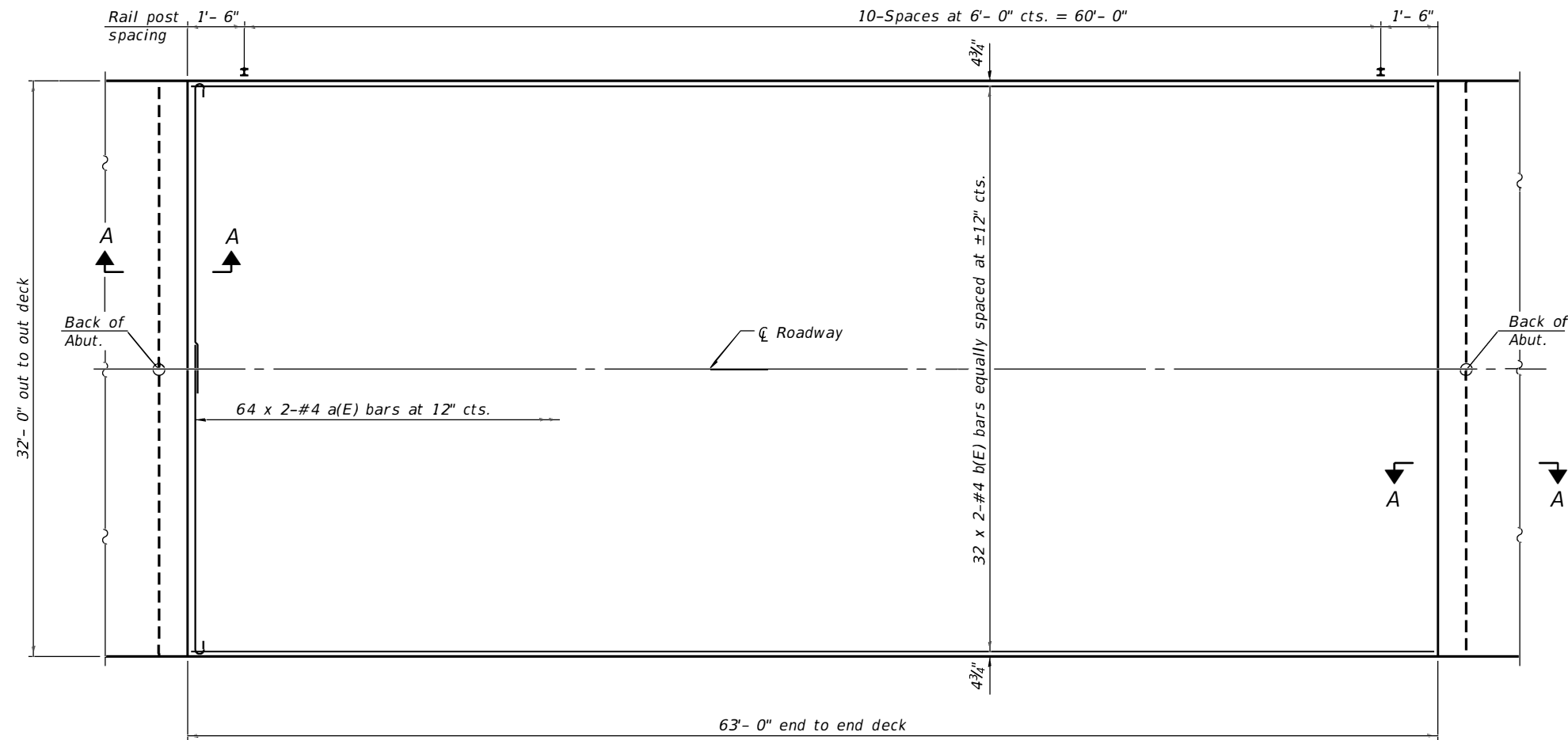
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**STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION**

**27" x 48" PPC DECK BEAM DETAILS
 STRUCTURE NO. 015-3433**

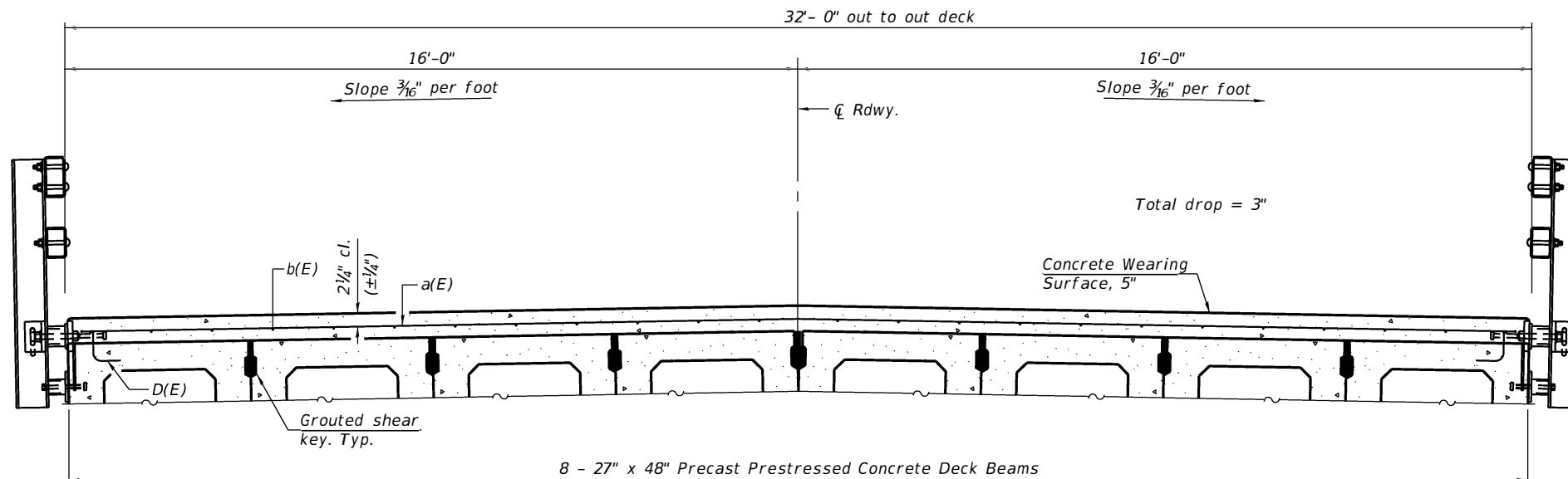
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CONTRACT NO. 95884			ILLINOIS FED. AID PROJECT	

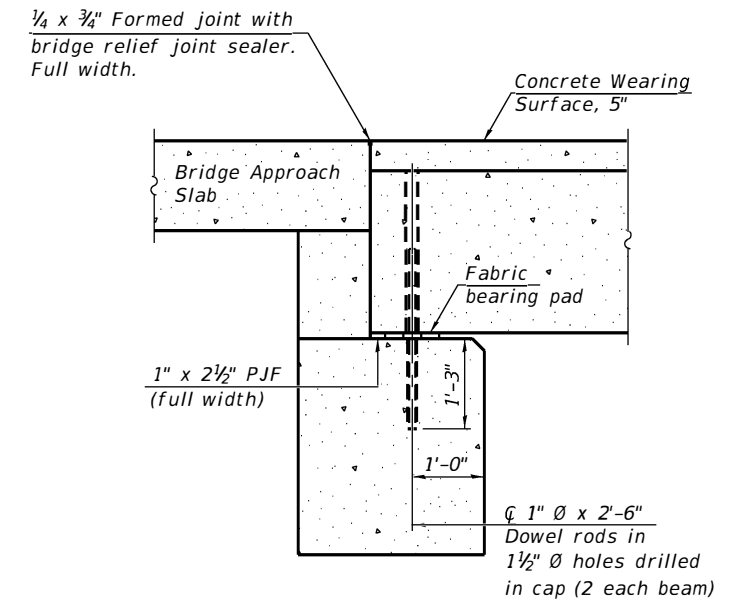


PLAN

MINIMUM BAR LAP
#4 bar = 2'-2"



CROSS SECTION
(Looking North)



SECTION A-A

Notes:
See sheet 6 of 12 for Superstructure Details and Bill of Material.
Bars indicated thus 20 x 2-#4 etc. indicates 20 lines of bars with 2 lengths per line.
Concrete wearing surface shall be placed prior to casting approach slab.
See sheet 4 of 12 for fabric bearing pad details.

SF-DB1742-CWS-R34-1-0 1-1-2020

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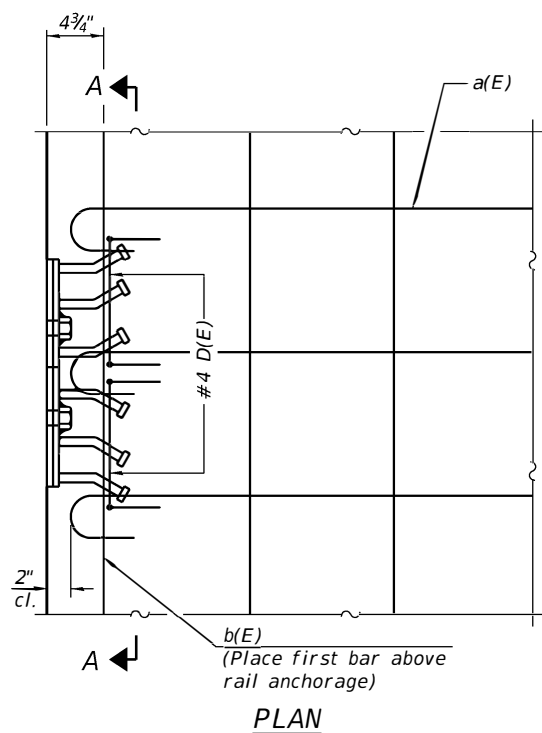
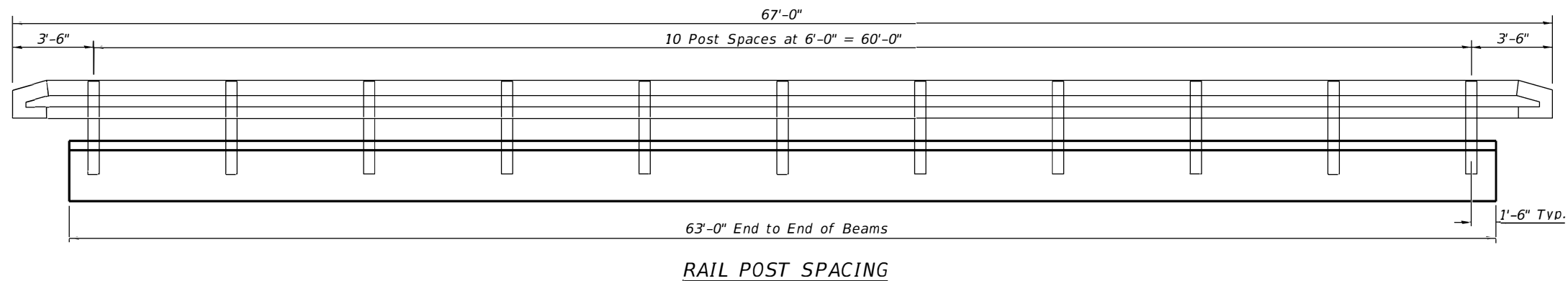
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DEPARTMENT OF TRANSPORTATION

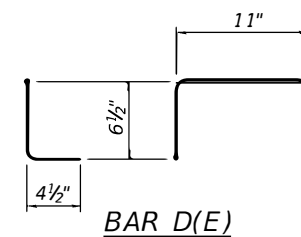
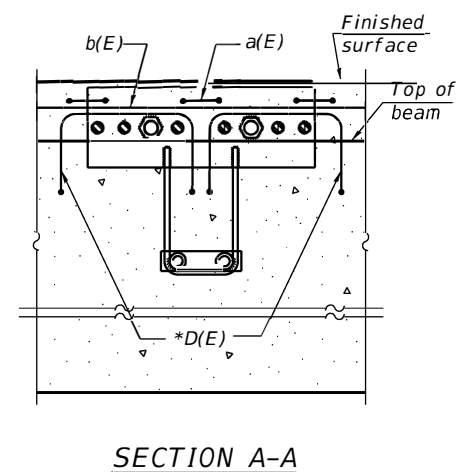
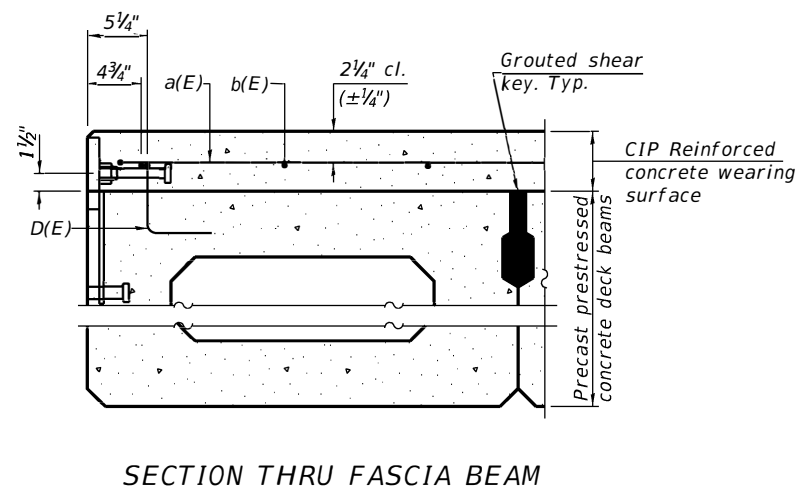
SUPERSTRUCTURE
STRUCTURE NO. 015-3433

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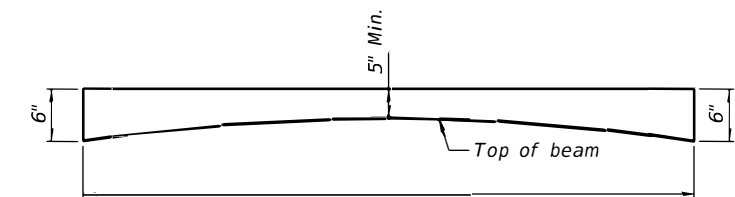
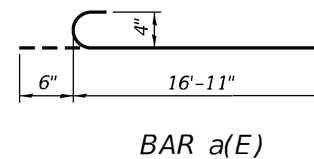
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7711	17-00170-00-BR	COLES	26	12
CONTRACT NO. 95884				
ILLINOIS FED. AID PROJECT				



Notes:
Formwork necessary for the wearing surface may be secured utilizing the bottom rail anchorage inserts and/or additional inserts cast into the beam.



* Place 2-#4 D(E) bars in beam at each post location as shown. D(E) bar included in cost of beam.



**SUPERSTRUCTURE
BILL OF MATERIAL**

Bar	No.	Size	Length	Shape
a(E)	128	#4	17'-5"	⌒
b(E)	64	#4	32'-5"	—
		Reinforcement Bars, Epoxy Coated	Pound	2880
		Concrete Wearing Surface, 5"	Sq. Yd.	224

Bars indicated thus 1 x 2-#4 etc. indicates 1 line of bars with 2 lengths per line.

SDF-DB1742-CWS-R34 1-1-2020

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**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

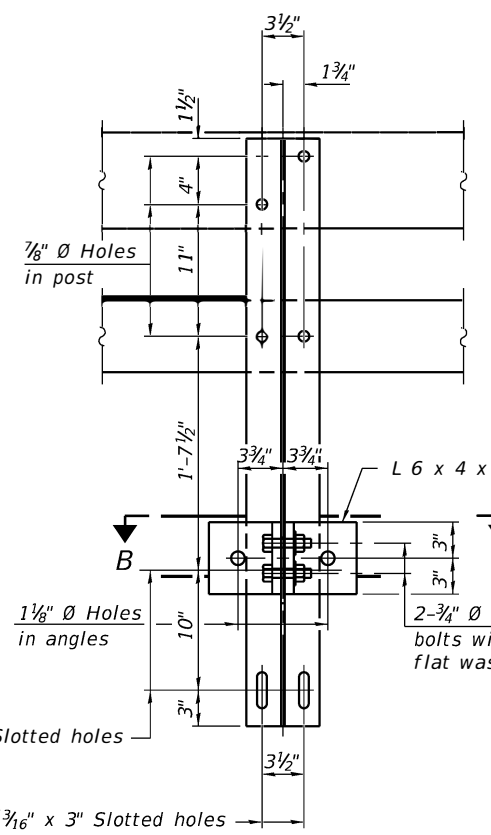
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STRUCTURE NO. 015-3433**

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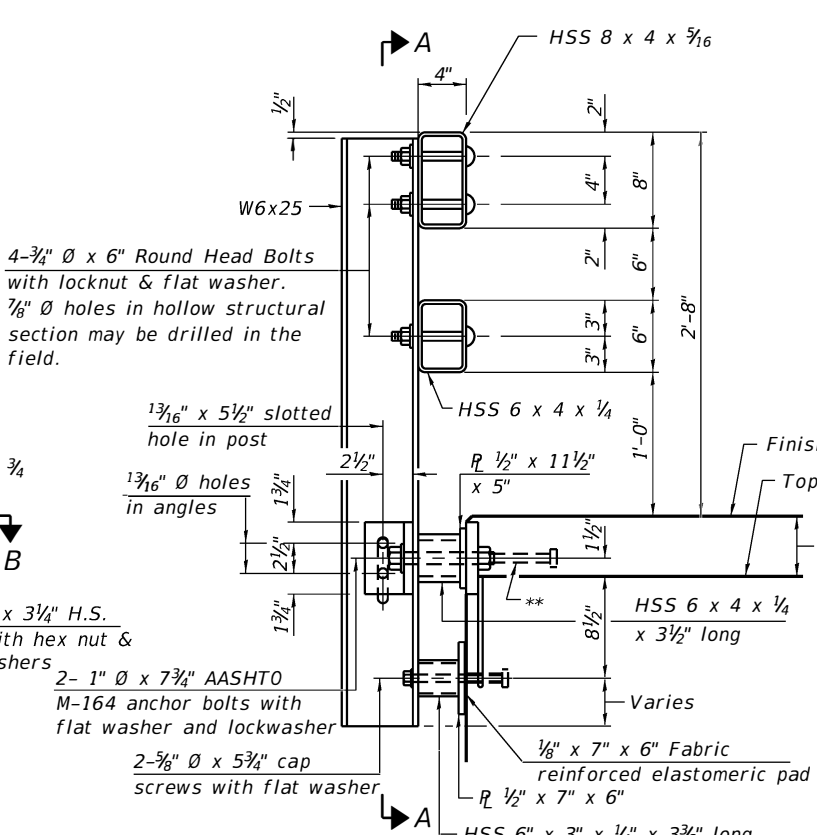
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7711	17-00170-00-BR	COLES	26	13
			CONTRACT NO. 95884	
			ILLINOIS FED. AID PROJECT	

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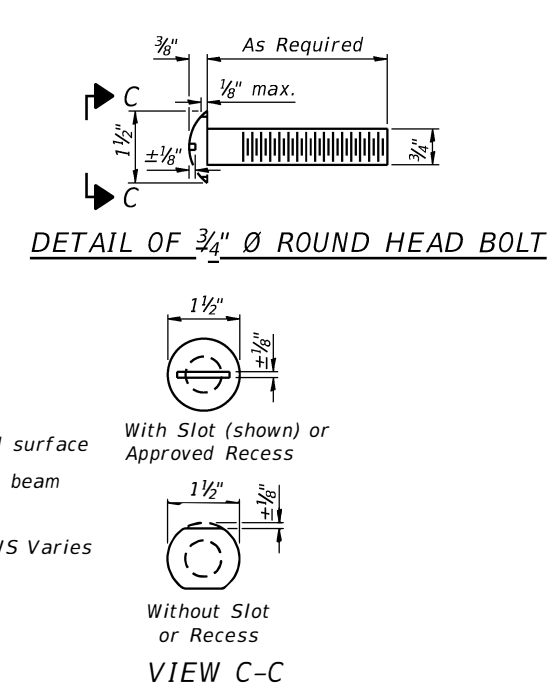
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 Professional Design
 Firm Corporation
 123 North 15th Street
 Moline, IL 61738
 Phone: 312.255.3177
 License No. 184-005401
 e-mail: upchurchgroup@upchurchgroup.com



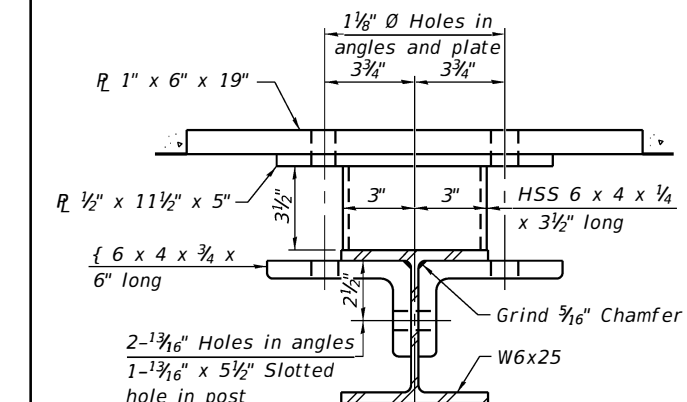
SECTION A-A



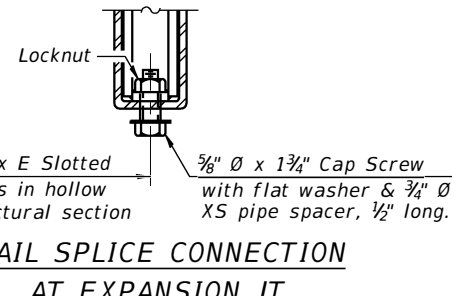
SECTION AT RAIL POST



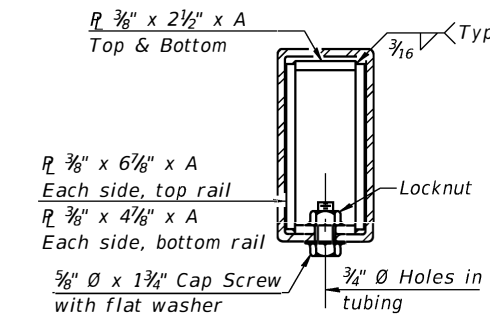
DETAIL OF 3/4" Ø ROUND HEAD BOLT



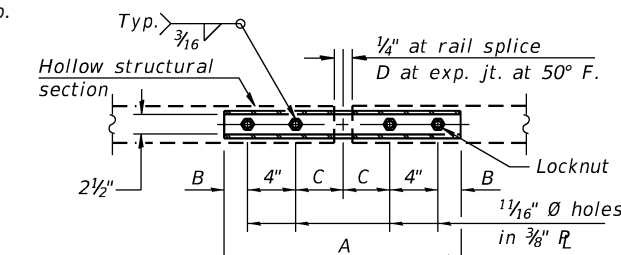
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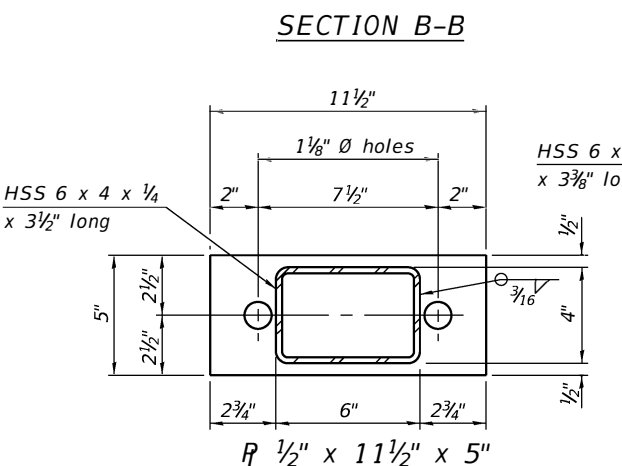
RAIL SPLICE CONNECTION AT EXPANSION JT.



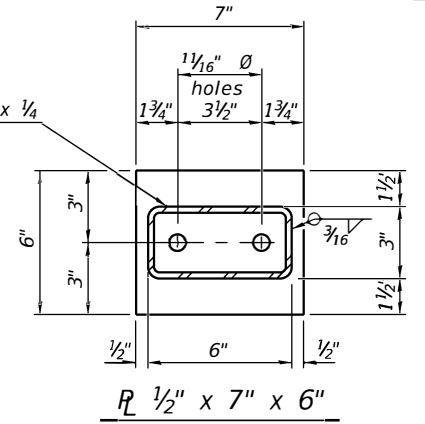
SECTION AT RAIL SPLICE



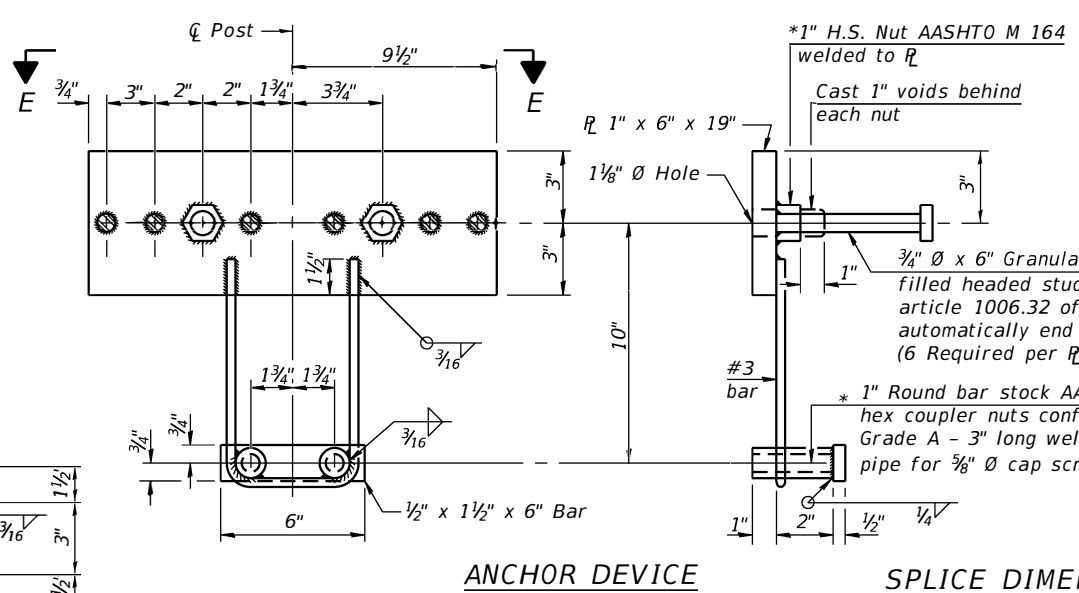
PLAN-BOTT. SPLICE R TYPICAL



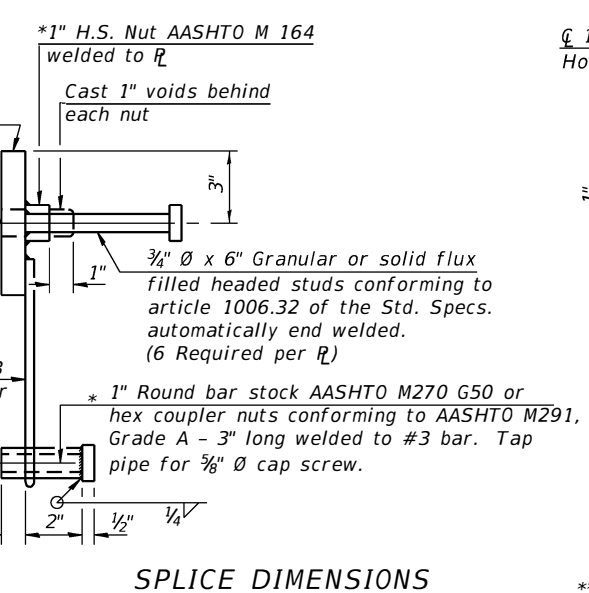
R 1/2" x 11 1/2" x 5"



R 1/2" x 7" x 6"



ANCHOR DEVICE



SPLICE DIMENSIONS

T	D	A	B	C	E
≤ 4"	2 1/2"	1'-8"	2"	4"	2 1/2"
> 4" ≤ 6 1/2"	3 3/4"	2'-0"	2 1/2"	5 1/2"	3 1/2"
> 6 1/2" ≤ 9"	5"	2'-4"	3 1/2"	6 1/2"	9"
> 9" ≤ 13"	7"	2'-10"	4 1/2"	8 1/2"	11"
Rail Splice	1/4"	1'-8"	2"	4"	

T = Total movement at expansion joint as shown on the design plans.

Notes:
 For multi-span bridges, sufficient 1/4" x 6" x 1'-2" galvanized steel shims shall be provided to align rail between adjacent spans.
 Cost included with Steel Railing, Type SM.
 Steel rail elements shall be galvanized according to Article 509.05 of the Standard Specifications.
 ** The studs of the anchor devices shall be placed below the top reinforcement bars and the outermost longitudinal reinforcement bar shall be placed directly above the studs of the rail post anchor device.

BILL OF MATERIAL

Item	Unit	Quantity
Steel Railing, Type SM (Special)	Foot	130

R-34CWS 8-11-2017 (6'-3" Maximum Post Spacing) (5" minimum to 7 1/8" maximum CWS thickness)

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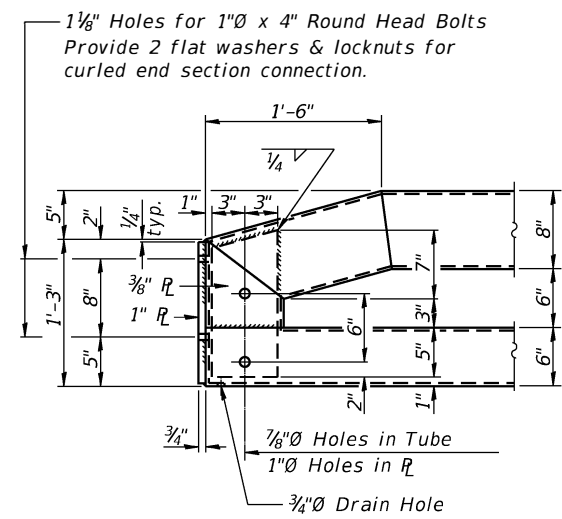
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	TLW	-
	SAL	-
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		-

STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION

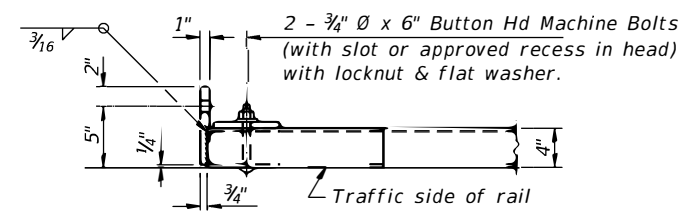
STEEL RAILING, TYPE SM (SPECIAL) WITH CONCRETE WEARING SURFACE - STRUCTURE NO. 015-3433

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
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CONTRACT NO. 95884				
ILLINOIS FED. AID PROJECT				

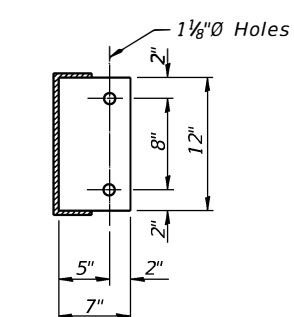
SCALE: 2.0000' / in. SHEET 7 OF 12 SHEETS STA. TO STA.



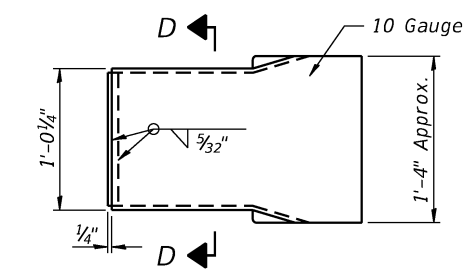
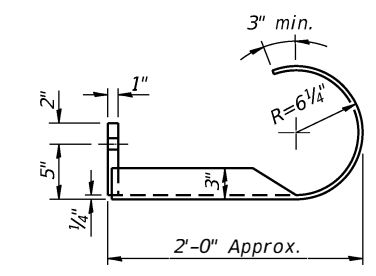
1/8" Holes for 1"Ø x 4" Round Head Bolts
Provide 2 flat washers & locknuts for
curled end section connection.



END OF RAIL DETAILS



SECTION D-D



CURLED END SECTION

(2 Req'd) Cost Included with Steel Bridge Rail, Type SM (Special).
Terminal Markers - Direct Applied shall be placed on end of
each Curled End Section. (Departure side only)

MODEL: Default
FILE NAME: P:\Civil\COLES COUNTY\Labayette #17_611612\Drawings\Steel Railing_Details.dgn

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USER NAME = Sta37	DESIGNED - SJF	REVISED -
	DRAWN - TLW	REVISED -
PLOT SCALE = 2.0000' / in.	CHECKED - SAL	REVISED -
PLOT DATE = 8/25/2020	DATE - AUG. 25, 2020	REVISED -

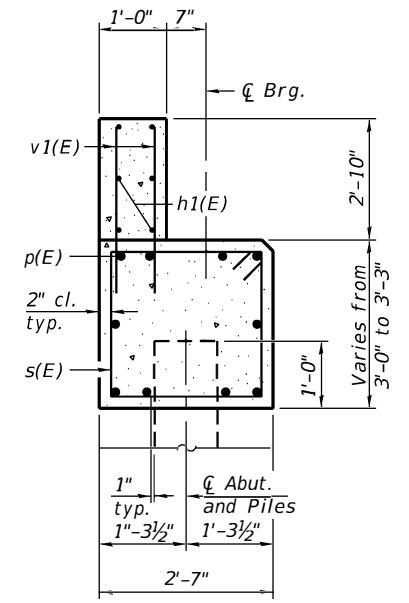
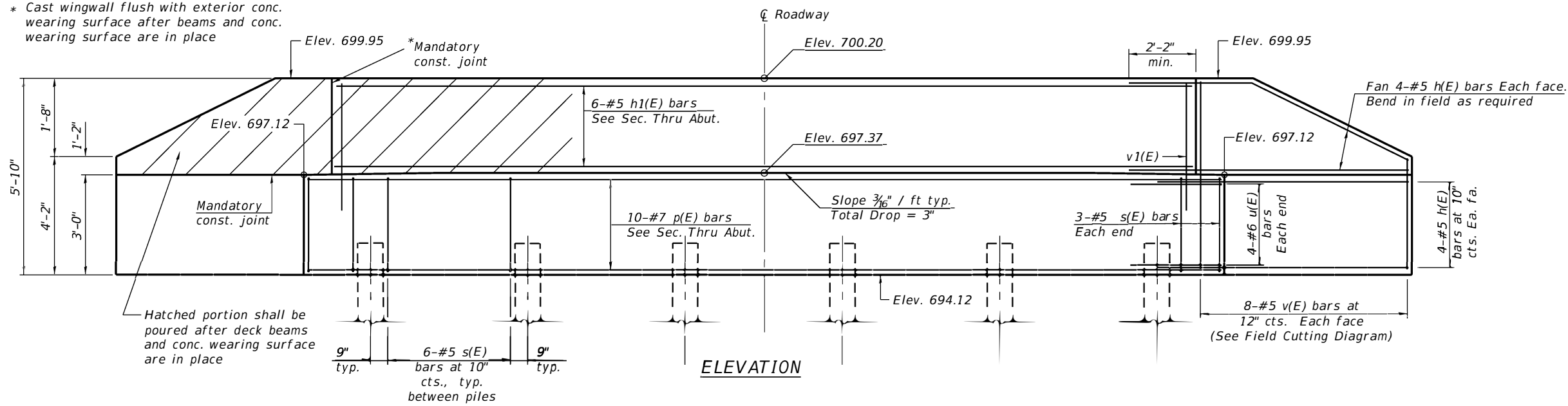
**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**STEEL RAILING, TYPE SM (SPECIAL) WITH
CONCRETE WEARING SURFACE - STRUCTURE NO. 015-3433**

SCALE: 2.0000' / in. SHEET 8 OF 12 SHEETS STA. TO STA.

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
7711	17-00170-00-BR	COLES	26	15
CONTRACT NO. 95884				
ILLINOIS FED. AID PROJECT				

* Cast wingwall flush with exterior conc. wearing surface after beams and conc. wearing surface are in place

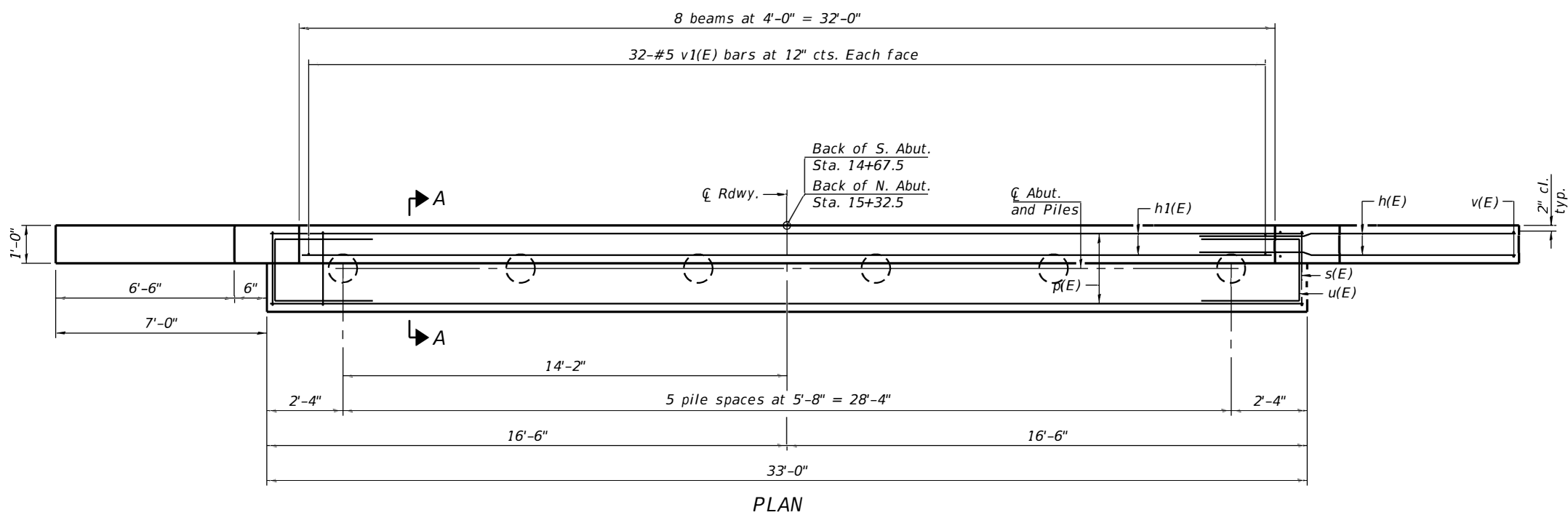


SECTION A-A

**BILL OF MATERIAL
BOTH ABUTMENTS**

Bar	No.	Size	Length	Shape
h(E)	64	#5	9'-6"	—
h1(E)	12	#5	31'-8"	—
p(E)	20	#7	32'-8"	—
s(E)	72	#5	10'-5"	□
u(E)	16	#6	7'-2"	□
v(E)	16	#5	9'-4"	—
v1(E)	128	#5	5'-2"	—
Structure Excavation		Cu. Yd.	52	
Concrete Structures		Cu. Yd.	32	
Reinforcement Bars, Epoxy Coated		Pound	4170	
Furnishing Metal Shell Piles, 14" x 0.250		Foot	590	
Driving Piles		Foot	590	
Test Pile, Metal Shell		Each	2	

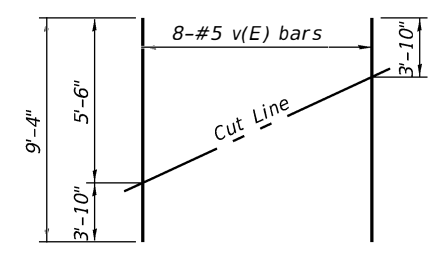
Notes:
Cast backwall after beams and concrete wearing surface have been erected.
Space reinforcement in cap to miss dowels.
For details of piles see sheet 10 of 12.



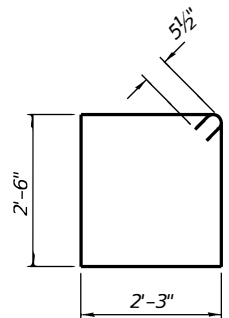
PLAN

PILE DATA

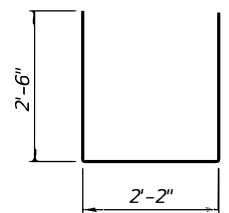
Type: Metal Shell 14" x 0.250
Nominal Required Bearing: 290 kips
Factored Resistance Available: 160 kips
Est. Length: 58' / Pile N. Abut.
60' / Pile S. Abut.
No. Production Piles: 5 N. & S. Abut.
No. Test Piles: 1 N. & S. Abut.



FIELD CUTTING DIAGRAM
Order v(E) bars full length. Cut as shown and use remainder of bars in opposite face.



BAR s(E)



BAR u(E)

MODEL: Default; FILE: Main; PLOT: COLES COUNTY; COLES COUNTY; #12_6116129; Drawings; Abutment_Details.dgn

AD-2742-0 2-17-2017

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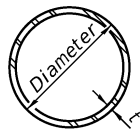
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PLOT DATE = 8/27/2020	CHECKED - SAL	REVISED -
	DATE - AUG. 25, 2020	REVISED -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**ABUTMENTS
STRUCTURE NO. 015-3433**

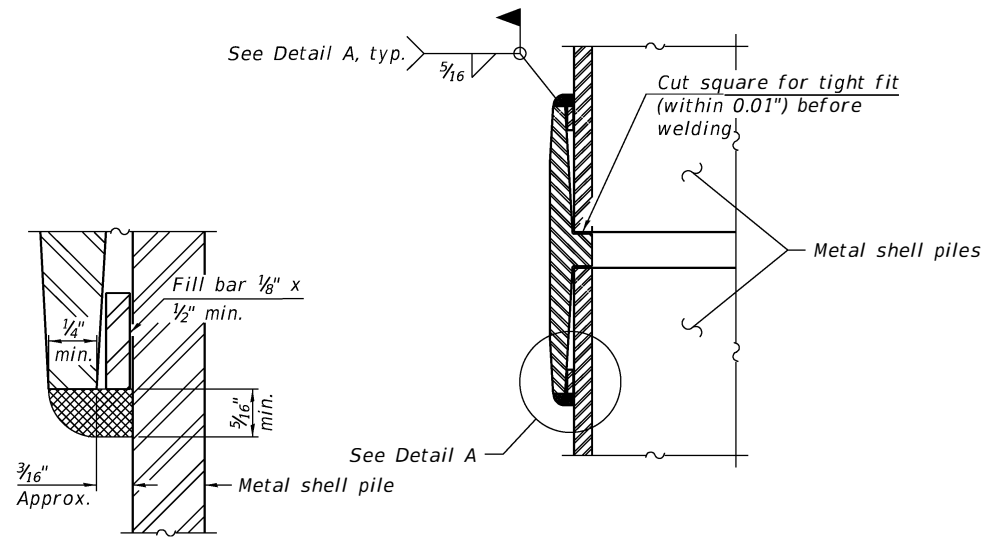
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F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
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CONTRACT NO. 956884				
ILLINOIS FED. AID PROJECT				

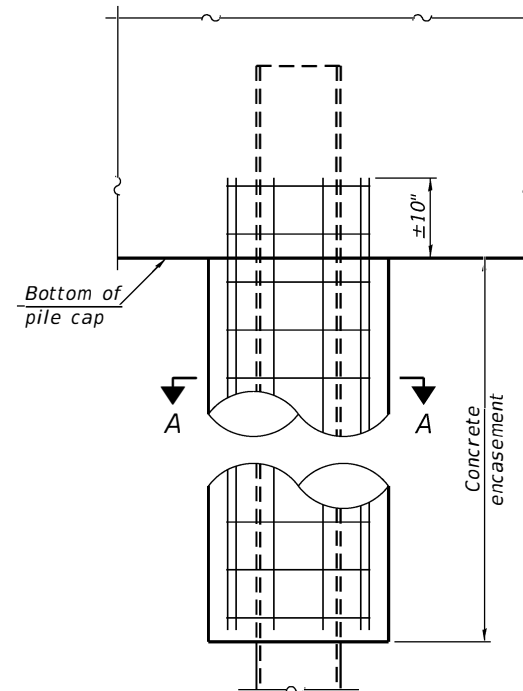


METAL SHELL PILE TABLE

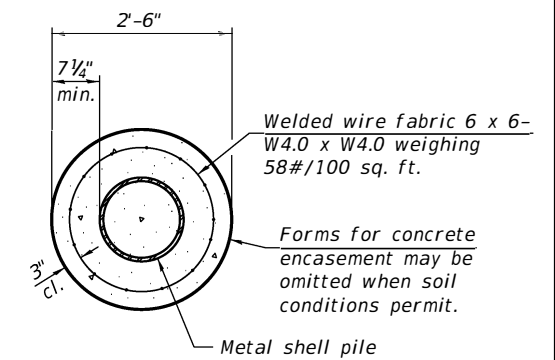
Designation and outside diameter	Wall thickness t	Weight per foot (Lbs./ft.)	Inside volume (yd. ³ /ft.)
PP12	0.250"	31.37	0.0267
PP14	0.250"	36.71	0.0368
PP14	0.312"	45.61	0.0361
PP16	0.312"	52.32	0.0478
PP16	0.375"	62.64	0.0470



DETAIL A

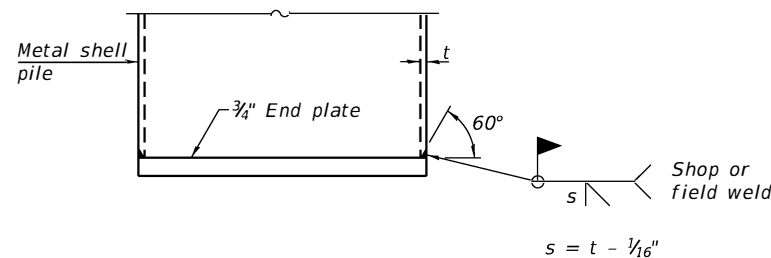


ELEVATION



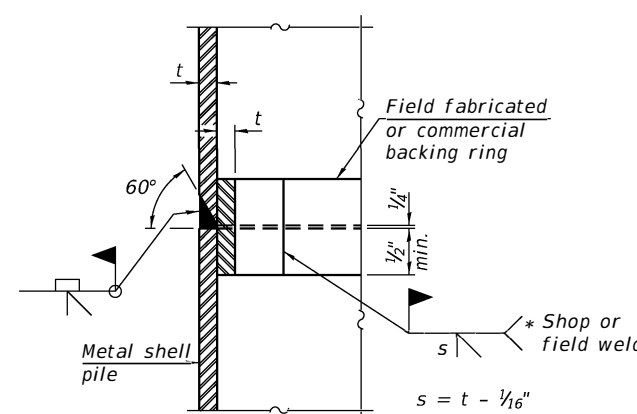
SECTION A-A

INDIVIDUAL PILE CONCRETE ENCASUREMENT
(When specified)

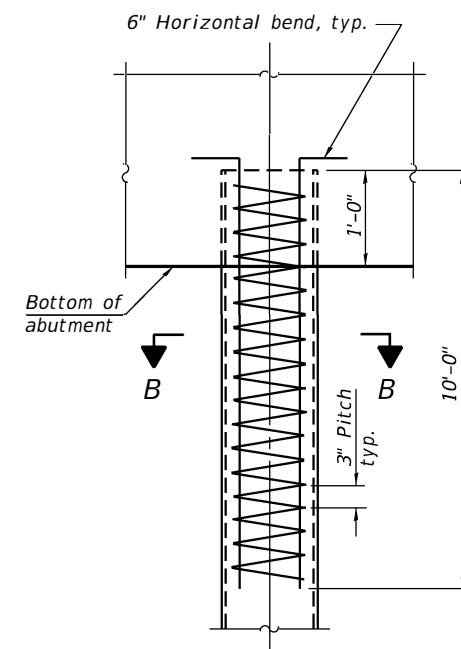


END PLATE ATTACHMENT

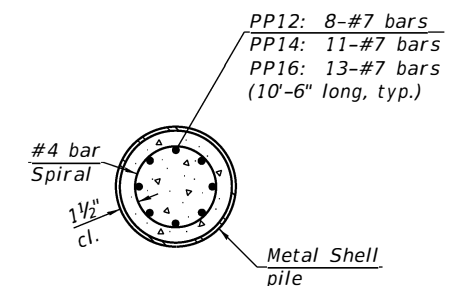
WELDED COMMERCIAL SPLICE
Notes:
The 1/8" x 1/2" min. fill bar may be constructed of 2 bars with a 1/8" max. gap between them.
Pile segments shall be driven to solid contact with splicer before welding.



COMPLETE PENETRATION WELD SPLICE
* Field fabricated backing ring may be made from pile shell by removing segment to allow reducing circumference and vertically rejoin with partial joint penetration weld.

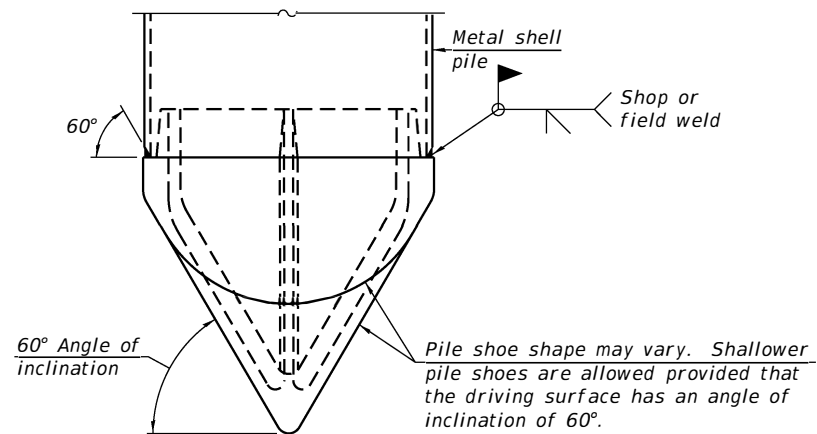


ELEVATION



SECTION B-B

REINFORCEMENT AT ABUTMENTS
(Omit when concrete encasement is specified)



PILE SHOE ATTACHMENT

(When called for on the plans, the Contractor shall furnish metal shell pile shoes consisting of a single piece conical pile point as shown. The pile shoes shall be cast in one piece steel according to either ASTM A 148 Grade 80-50 or AASHTO M 103 Grade 65-35 and shall provide full bearing over the full circumference of the metal shell pile. The pile shoe shall have tapered leads to assure proper alignment and fitting and shall be secured to the pile with a circumferential weld).

Note:
The metal shell piles shall be according to Article 1006.05 of the Standard Specifications.

F-MS 1-1-2020

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USER NAME = Sta37	DESIGNED - SJF	REVISED -
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STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

METAL SHELL PILE DETAILS
STRUCTURE NO. 015-3433

SCALE: 2.0000' / in. SHEET 10 OF 12 SHEETS STA. TO STA.

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
7711	17-00170-00-BR	COLES	26	17
CONTRACT NO. 95884				
ILLINOIS FED. AID PROJECT				

Bridge Foundation Boring Log

Project: H-17112 Bridge Odd Fellow Rd over Kickapoo Creek Date: 6/19/2017
 Section: Station Bored by: J. Carter
 Structure: 015-3205 Checked By: T. Holcomb
 County: Coles

Boring No. 2 Station: Offset:	Elevation	N	Qu	tsf	B	S	E	P	Surface Water Elev.	
									During Drilling	Upon Completion
	696.5	0								688.0
	693.0	5	0.7B	17						673.5
	690.5	2	0.2B	24						
	688.0	3	0.3B	23						
	685.0	7	1.9B	13						
		14	3.4B	13						

N = Standard Penetration Test Blows per foot to drive 2" O.D. Split Spoon Sampler 12" with a 140 lbs. hammer falling 30"
 Qu - Unconfined Compressive Strength in tons/sq.ft.
 w - Water Content - percentage of oven dry weight - %
 B = Bulge Failure
 S = Shear Failure
 E = Estimated Value
 P = Penetrometer

Bridge Foundation Boring Log

Project: H-17112 Bridge Odd Fellow Rd over Kickapoo Creek Date: 6/19/2017
 Section: Station Bored by: J. Carter
 Structure: 015-3205 Checked By: T. Holcomb
 County: Coles

Boring No. 2 Station: Offset:	Elevation	N	Qu	tsf	B	S	E	P	Surface Water Elev.	
									During Drilling	Upon Completion
	648.0	6								688.0
	643.0	9	1.7B	16						673.5
	631.5	50	2.8B	13						

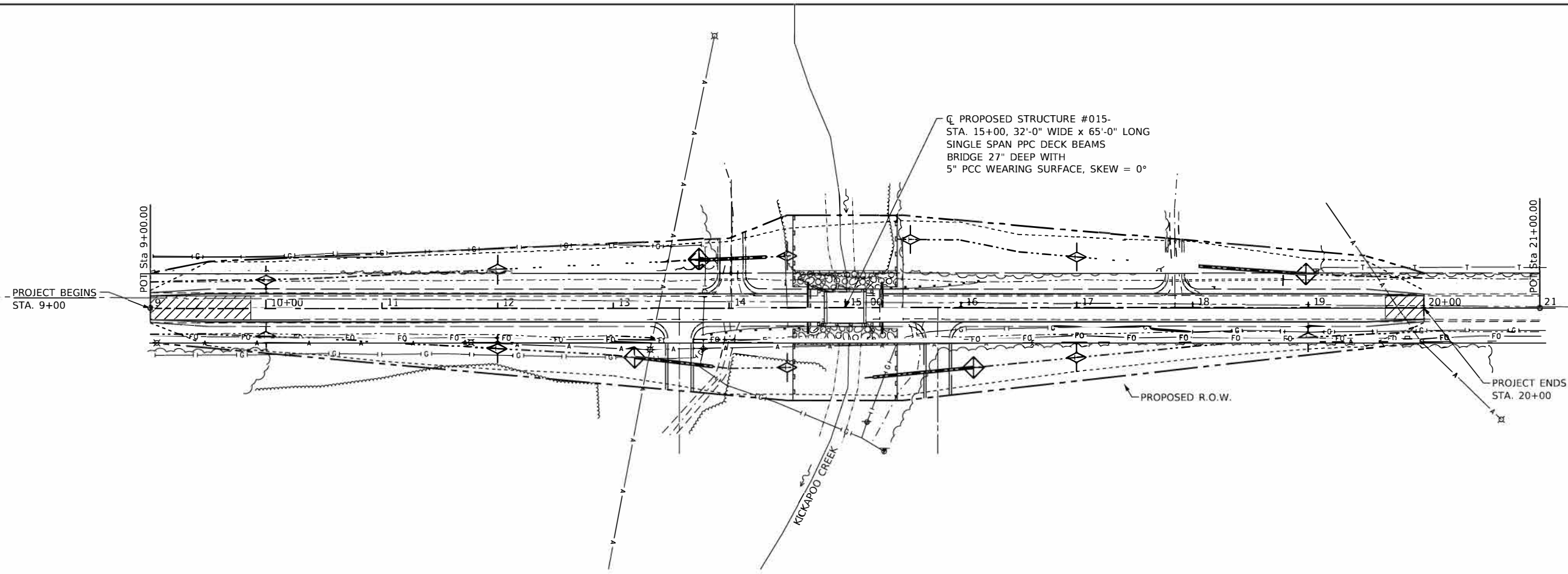
N = Standard Penetration Test Blows per foot to drive 2" O.D. Split Spoon Sampler 12" with a 140 lbs. hammer falling 30"
 Qu - Unconfined Compressive Strength in tons/sq.ft.
 w - Water Content - percentage of oven dry weight - %
 B = Bulge Failure
 S = Shear Failure
 E = Estimated Value
 P = Penetrometer

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


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PLOT DATE = 8/25/2020	CHECKED - SAL	REVISED -
	DATE - AUG. 25, 2020	REVISED -

SOIL BORINGS			
STRUCTURE NO. 015-3433			
SCALE: 2.0000' / in.	SHEET 12	OF 12 SHEETS	STA. TO STA.

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
7711	17-00170-00-BR	COLES	26	19
CONTRACT NO. 95884				
ILLINOIS FED. AID PROJECT				



LEGEND

-  DITCH CHECK
-  INLET AND PIPE PROTECTION
-  PERIMETER EROSION BARRIER

GENERAL NOTES

1. SEE STANDARD 280001.
2. SEEDING CLASS 2 WITH FERTILIZER AND MULCH WITHIN CONSTRUCTION LIMITS AND ALL DISTURBED AREAS.
3. PERIMETER EROSION BARRIER NEEDS TO BE ERECTED AS DIRECTED BY THE ENGINEER BEFORE ANY WORK BEGINS. SEE STD. 280001.
4. MAINTENANCE OF ALL EROSION CONTROL DEVICES WILL BE PERFORMED IMMEDIATELY AFTER A RAIN EVENT OR ANY DISTURBANCE OF THE CONTROL.
5. REMOVAL AND PROPER CLEAN UP OF ALL TEMPORARY EROSION DEVICES WILL BE REQUIRED AFTER PERMANENT EROSION CONTROL IS IN PLACE AND FUNCTIONING.
6. TOTAL AREA OF CONSTRUCTION:

ESTIMATED RUNOFF COEFFICIENT AFTER CONSTRUCTION:
 COURSE TEXTURED GRASS
 SOIL GREATER THAN 40% CLAY
 MODERATE SLOPE
 C=0.25

TEMPORARY DITCH CHECK SCHEDULE

STATION	LT	RT	LENGTH
10+00	26'	26'	25'
12+00	35'	37'	25'
14+50	47'	53'	25'
15+56	61'		25'
17+00	46'	45'	25'
19+00	31'	28'	25'

PERIMETER EROSION BARRIER

STATION	LT/RT	FOOT
14+55	LT/RT	124
15+45	LT/RT	124

INLET PROTECTION

STATION & OFFSET	NO.
13+18.26 42.76' RT	1
13+73.97 41.27' LT	1
15+24.26 59.79' RT	1
17+55.37 39.51' LT	1

MODEL: Default
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 Phone: 217.253.5177
 License No. 184-003401
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	DATE - AUG. 25, 2020	REVISED -

**STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION**

**EROSION CONTROL PLAN
 CH 27 (ODD FELLOWS ROAD) OVER KICKAPOO CREEK**

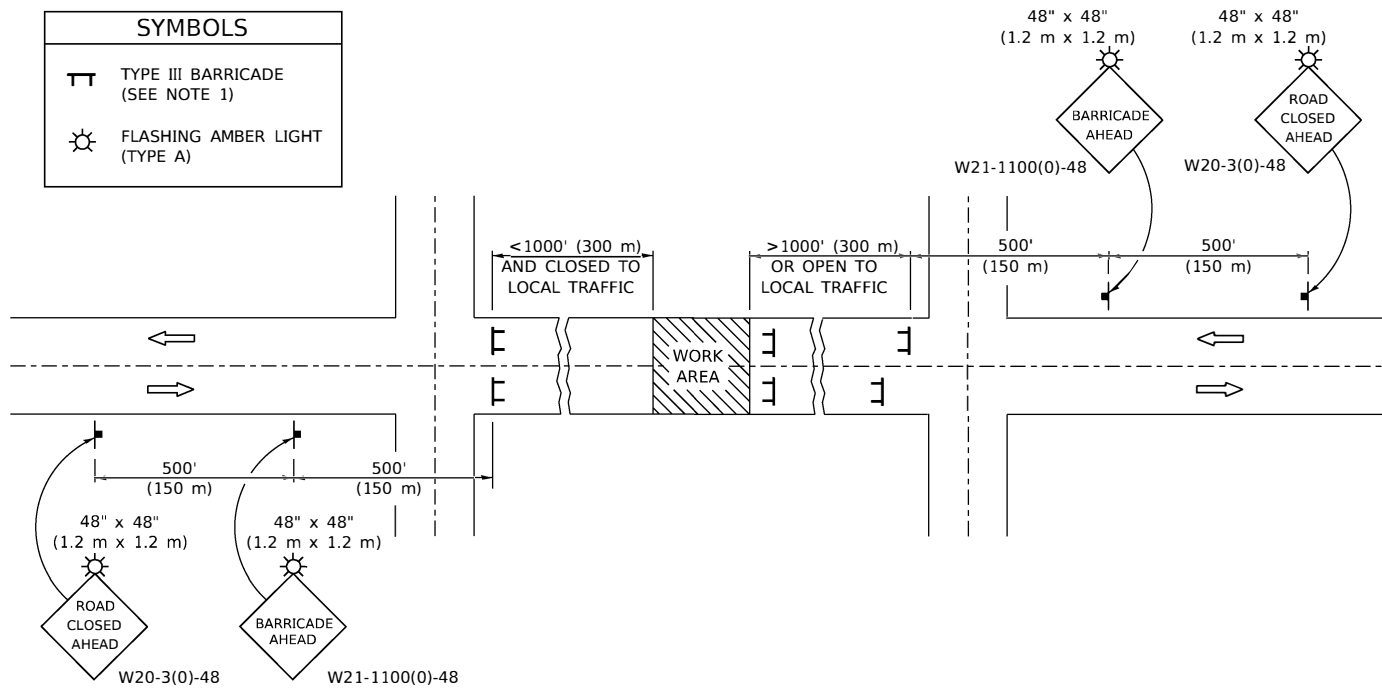
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F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
7711	17-00170-00-BR	COLES	26	20
CONTRACT NO. 95884				
ILLINOIS FED. AID PROJECT				

ROAD CLOSURE

SIDEROAD / STREET CLOSURE

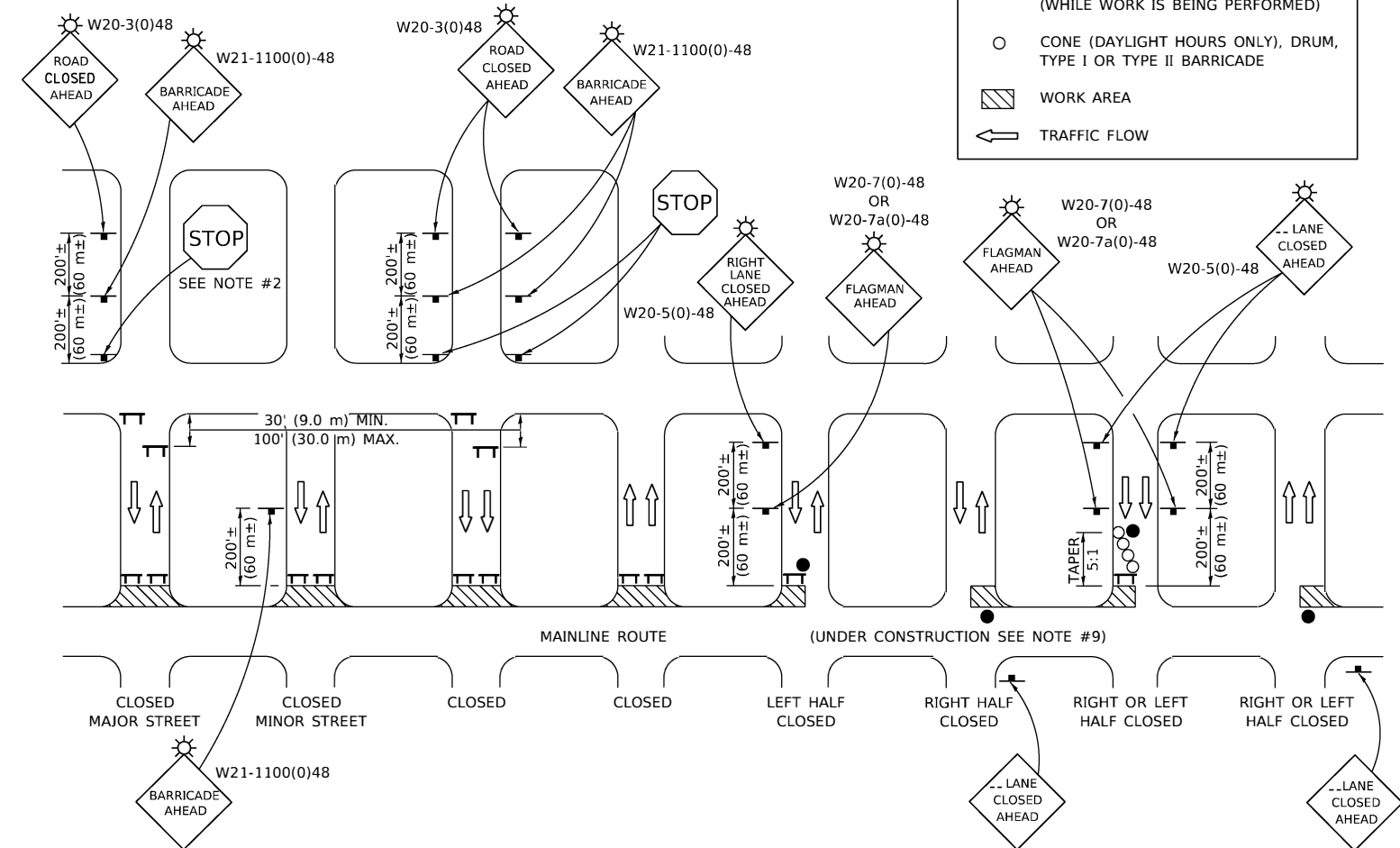
SYMBOLS	
	TYPE III BARRICADE (SEE NOTE 1)
	FLASHING AMBER LIGHT (TYPE A)



GENERAL NOTES

- TYPE III BARRICADES SHALL BE AS SHOWN ON STANDARD 701901 "TYPICAL APPLICATIONS OF TYPE III BARRICADES CLOSING A ROAD". EACH TYPE III BARRICADE SHALL HAVE TWO FLASHING AMBER LIGHTS MOUNTED ABOVE IT.
- IF THE ROAD IS OPEN TO LOCAL TRAFFIC OR EXCEEDS 1000' (300 m), ANOTHER SET OF TYPE III BARRICADES, EQUIPPED AS IN NOTE 1 ABOVE, SHALL BE PLACED AT EACH END OF THE WORK AREA.
- WHEN A STOP CONDITION EXISTS, NO SIGNS ARE REQUIRED IN ADVANCE OF THE "STOP" SIGN WHEN THE ROAD IS CLOSED WITHIN 100' (30 m) OF THE INTERSECTION.
- STANDARD 701901 SHALL APPLY FOR THE PLACEMENT & DESIGN OF TYPE III BARRICADES.
- IF A TYPE III BARRICADE WITH AN ATTACHED SIGN PANEL WHICH MEETS NCHRP 350 IS NOT AVAILABLE, THE SIGNS MAY BE MOUNTED ON AN NCHRP 350 TEMPORARY SIGN SUPPORT DIRECTLY IN FRONT OF THE BARRICADE.
- REFLECTORIZED STRIPING SHALL APPEAR ON BOTH SIDES OF THE TYPE III BARRICADES IF ROAD IS OPEN TO LOCAL TRAFFIC.
- ALL SIGNS SHALL BE POST MOUNTED IF THE CLOSURE TIME EXCEEDS FOUR DAYS.
- A MINIMUM OF TWO FLASHING LIGHTS SHALL BE USED AT NIGHT ON EACH APPROACH IN ADVANCE OF THE WORK AREA. FLASHING LIGHTS SHALL BE INSTALLED ABOVE THE FIRST TWO SIGNS IN THE SERIES.
- LONGITUDINAL DIMENSIONS MAY BE ADJUSTED SLIGHTLY TO FIT FIELD CONDITIONS.
- FORMS BT. 725 AND BT. 726 ARE REQUIRED.
- WHEN A SIDEROAD INTERSECTS THE HIGHWAY ON WHICH WORK IS BEING PERFORMED, ADDITIONAL TRAFFIC DEVICES SHALL BE ERECTED AND PROVIDED AS DIRECTED BY THE ENGINEER.
- AN ADDITIONAL SIGN MAY BE REQUIRED AT A MAJOR INTERSECTING ROAD IN ADVANCE OF THE CLOSURE. THE ADDITIONAL SIGN SHALL GIVE THE DISTANCE TO THE BARRICADE IN MILES OR FRACTIONS OF A MILE.

SYMBOLS	
	TYPE III BARRICADE (SEE NOTE)
	FLASHING LIGHT
	FLAGGER WITH TRAFFIC CONTROL SIGN (WHILE WORK IS BEING PERFORMED)
	CONE (DAYLIGHT HOURS ONLY), DRUM, TYPE I OR TYPE II BARRICADE
	WORK AREA
	TRAFFIC FLOW



GENERAL NOTES

- TYPE III BARRICADES SHALL BE AS SHOWN ON "TYPICAL APPLICATIONS OF TYPE III BARRICADES CLOSING A ROAD". EACH TYPE III BARRICADE SHALL HAVE TWO FLASHING AMBER LIGHTS MOUNTED ABOVE IT.
- WHERE A STOP CONDITION EXISTS, AS SHOWN ABOVE, WARNING SIGNS MAY BE OMITTED IN ADVANCE OF THE "STOP" SIGN.
- STANDARD 701901 SHALL APPLY FOR THE PLACEMENT & MANUFACTURE OF TYPE III BARRICADES.
- ALL SIGNS SHALL BE POST MOUNTED IF THE CLOSURE TIME EXCEEDS FOUR DAYS.
- ONE FLASHING LIGHT IS REQUIRED ABOVE EACH ADVANCE WARNING SIGN DURING HOURS OF DARKNESS.
- LONGITUDINAL DIMENSIONS MAY BE ADJUSTED SLIGHTLY TO FIT FIELD CONDITIONS.
- FORMS BT 725 AND BT 726 ARE REQUIRED.
- THE MAINLINE ROUTE TEMPORARY TRAFFIC CONTROL SHALL BE IN ACCORDANCE WITH THE PLANS, SPECIAL PROVISIONS AND STANDARD SPECIFICATIONS.
- ALL FLAGGERS REQUIRED AT SIDE ROADS AND ENTRANCES REMAINING OPEN TO TRAFFIC AND/OR ADDITIONAL BARRICADES REQUIRED BY THE ENGINEER TO CLOSE SIDE ROADS AND ENTRANCES WILL BE PAID FOR ACCORDING TO ARTICLE 109.04.

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

TRAFFIC CONTROL AND PROTECTION DEVICES
CH 27 (ODD FELLOWS ROAD) OVER KICKAPOO CREEK

SCALE: 40.0000' / in SHEET OF SHEETS STA. TO STA.

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
7711	17-00170-00-BR	COLES	26	21
CONTRACT NO. 95884				
ILLINOIS FED. AID PROJECT				

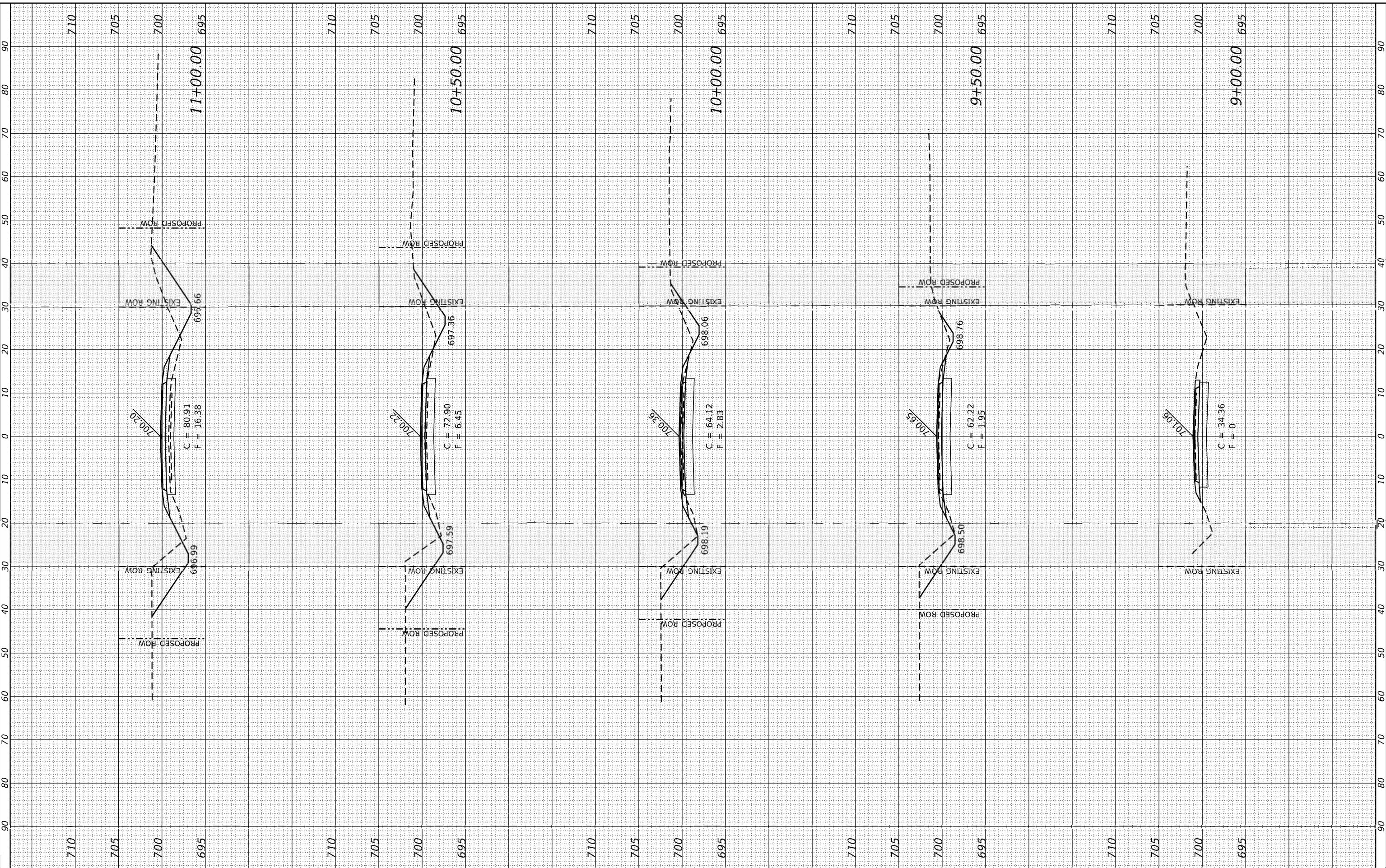
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Professional Design Firm Corporation
123 North 15th Street
Moline, IL 61938
Phone: 312.253.5177
License No. 184-963401
e-mail: upchurchgroup@upchurchgroup.com

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PLOT DATE = 8/25/2020	CHECKED - SAL	REVISED -
	DATE - AUG. 25, 2020	REVISED -

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ORIGINAL SURVEY NO.	SURVEYED PLOTTED TEMPLATE AREAS CHECKED	BY	DATE

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	DRAWN -	REVISED -
PLOT SCALE = 20.0000' / in	CHECKED -	REVISED -
PLOT DATE = 8/25/2020	DATE -	REVISED -

**STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION**

CROSS SECTIONS
CH 27 (ODD FELLOWS ROAD) OVER KICKAPOO CREEK
 SCALE: 20.0000' / in SHEET OF SHEETS STA. 9+00.00 TO STA. 11+00.00

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
7711	17-00170-00-BR	COLES	26	22
CONTRACT NO. 95884				
ILLINOIS FED. AID PROJECT				

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NOTE BOOK	TEMPLATE		
AREAS CHECKED			

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PLOT DATE = 10/5/2020

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DATE -

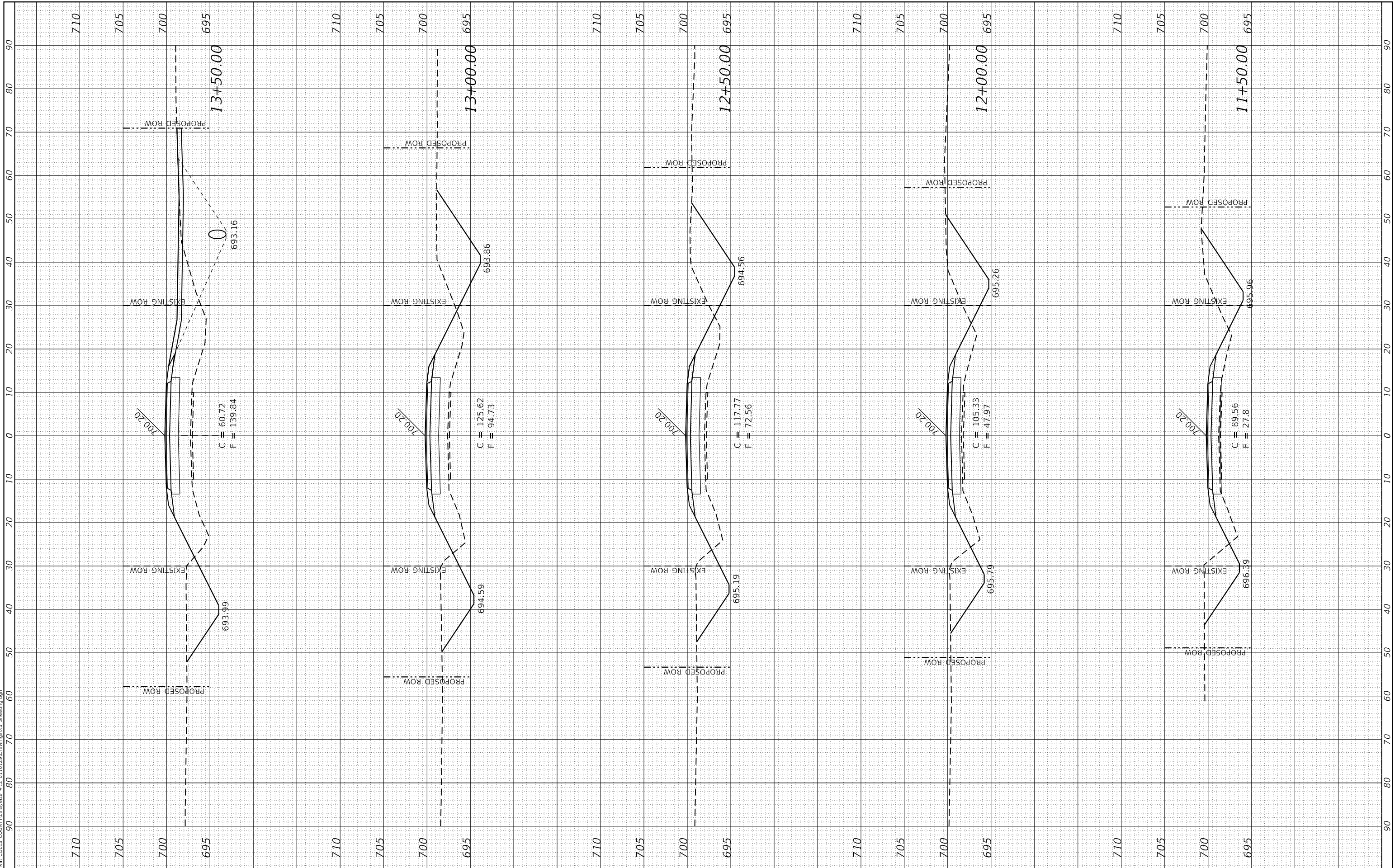
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**STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION**

**CROSS SECTIONS
 CH 27 (ODD FELLOWS ROAD) OVER KICKAPOO CREEK**

SCALE: 20.0000' / in. SHEET OF SHEETS STA. 11+50.00 TO STA. 13+50.00

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
7711	17-00170-00-BR	COLES	26	23
CONTRACT NO. 95884				
ILLINOIS FED. AID PROJECT				



FINAL SURVEY NO.	SURVEYED PLOTTED AREAS CHECKED	BY	DATE
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PLOT DATE = 10/5/2020

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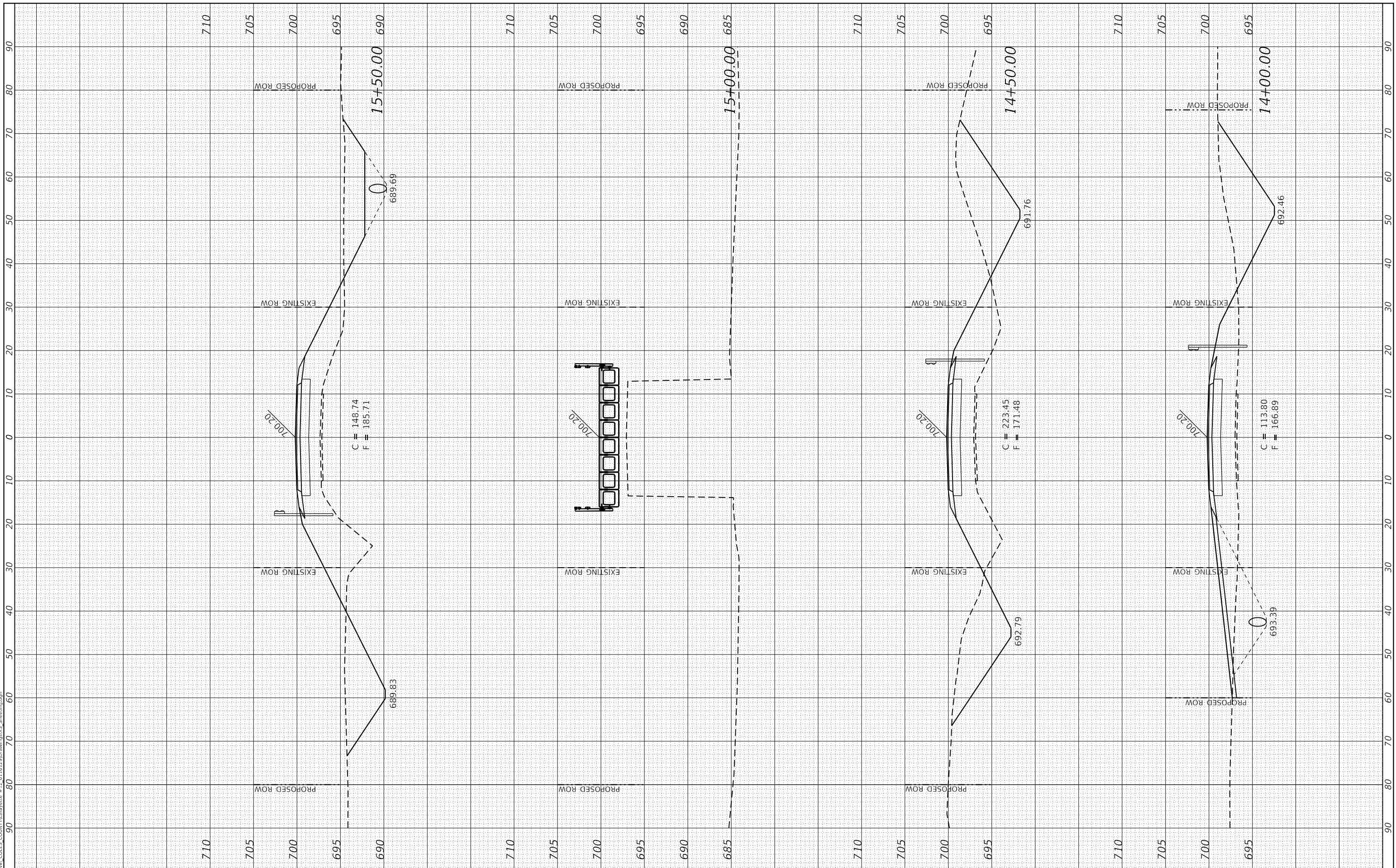
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**STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION**

**CROSS SECTIONS
 CH 27 (ODD FELLOWS ROAD) OVER KICKAPOO CREEK**

SCALE: 20.0000' / in. SHEET OF SHEETS STA. 14+00.00 TO STA. 15+50.00

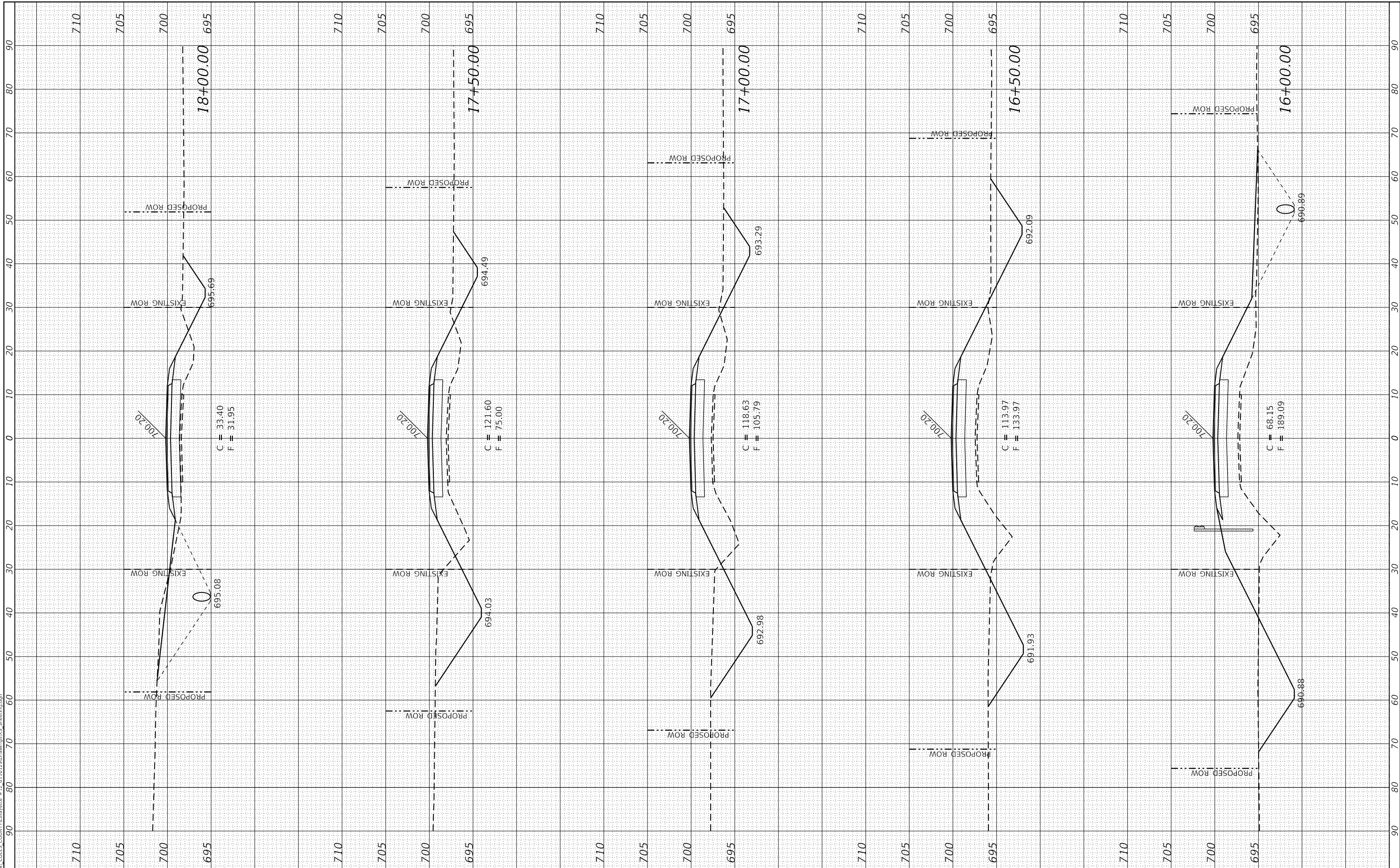
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CONTRACT NO. 95884				
ILLINOIS		FED. AID PROJECT		



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

ORIGINAL SURVEY NO.	SURVEYED PLOTTED AREAS CHECKED	BY	DATE
NOTE BOOK	TEMPLATE		
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PLOT DATE =	8/25/2020

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**STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION**

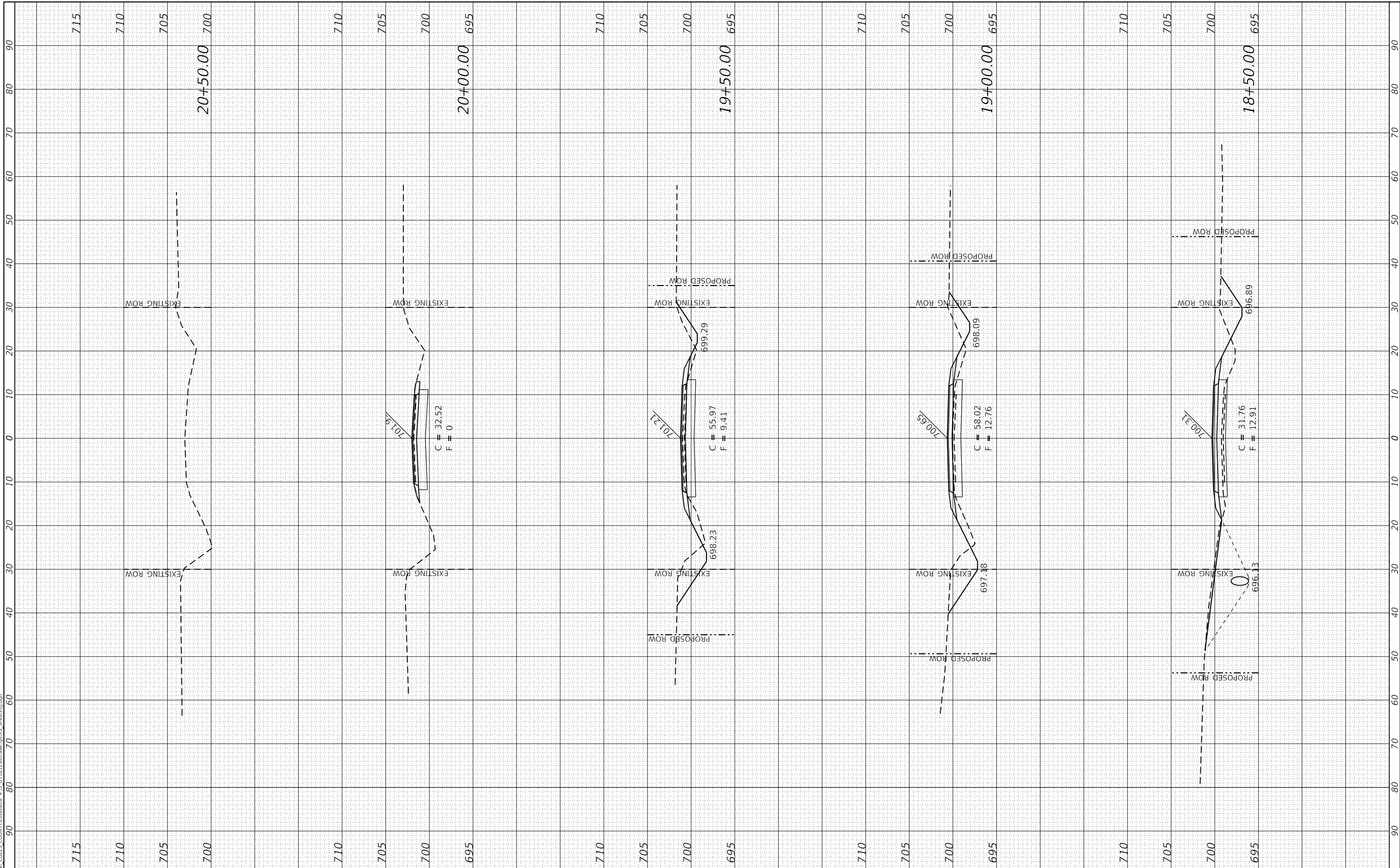
CROSS SECTIONS
CH 27 (ODD FELLOWS ROAD) OVER KICKAPOO CREEK
 SCALE: 20.0000' / in. SHEET OF SHEETS STA. 16+00.00 TO STA. 18+00.00

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
7711	17-00170-00-BR	COLES	26	25
CONTRACT NO. 95884				
ILLINOIS FED. AID PROJECT				

FINAL SURVEY NO.	SURVEYED	BY	DATE
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ORIGINAL SURVEY NO.	SURVEYED	BY	DATE
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AREAS CHECKED	AREAS CHECKED		

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 DATE: 8/25/2020



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	DRAWN -	REVISED -
PLOT SCALE = 20.0000' / in.	CHECKED -	REVISED -
PLOT DATE = 8/25/2020	DATE -	REVISED -

**STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION**

**CROSS SECTIONS
 CH 27 (ODD FELLOWS ROAD) OVER KICKAPOO CREEK**
 SCALE: 20.0000' / in. SHEET OF SHEETS STA. 18+50.00 TO STA. 20+50.00

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
7711	17-00170-00-BR	COLES	26	26
CONTRACT NO. 95884				
ILLINOIS FED. AID PROJECT				