

04-24-2015 LETTING ITEM 150

INDEX OF SHEETS

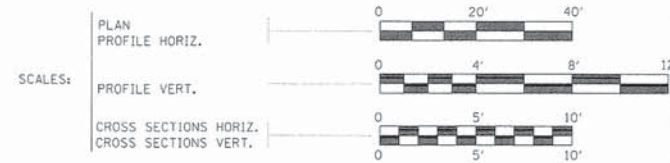
SHEET NO.	DESCRIPTION
1	COVER SHEET
2	SUMMARY OF QTYS, GENERAL NOTES, AND EARTHWORK
3	SCHEDULE OF QTYS & TYPICAL SECTIONS
4 - 11	PLAN & PROFILE
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LIST OF STANDARD DRAWINGS

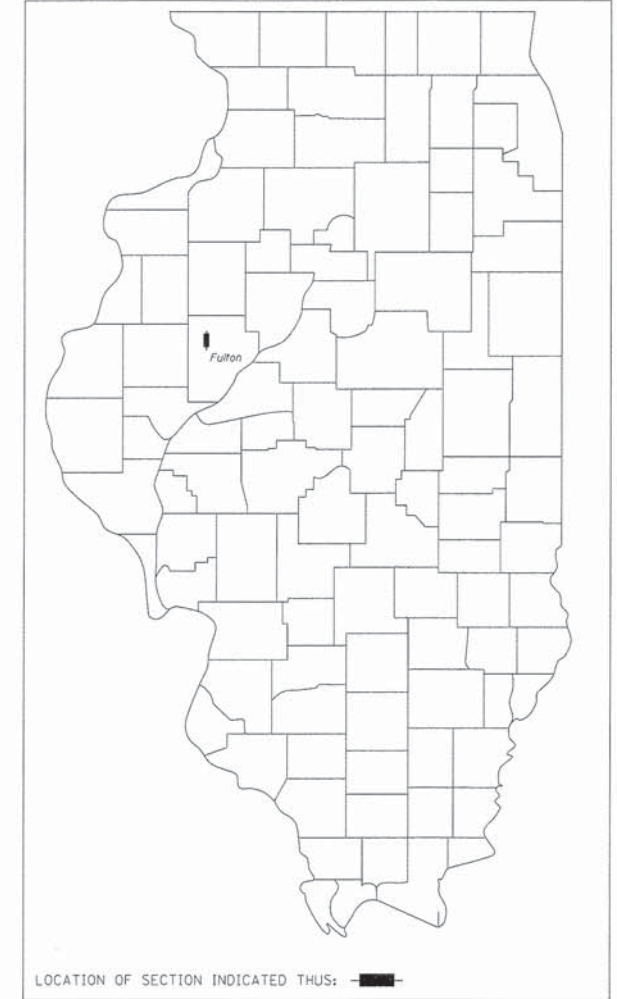
STANDARD NO.	DESCRIPTION
000001 - 06	STANDARD SYMBOLS, ABBREVIATIONS, AND PATTERNS
280001 - 07	TEMPORARY EROSION CONTROL SYSTEMS
515001 - 03	NAME PLATE FOR BRIDGES
630001 - 10	STEEL PLATE BEAM GUARDRAIL
630301 - 06	SHOULDER WIDENING FOR GUARDRAIL TERMINALS
631032 - 08	TRAFFIC BARRIER TERMINAL TYPE 6A
701006 - 05	OFF ROAD OPERATIONS, MULTILANE, 15' TO 24' FROM PAVEMENT EDGE
701301 - 04	OFF ROAD OPERATIONS, MULTILANE, 15' TO 24' FROM PAVEMENT EDGE, SHORT TIME OPERATIONS
701901 - 04	TRAFFIC CONTROL DEVICES
780001 - 05	TYPICAL PAVEMENT MARKINGS
BLR 21 - 9	TYPICAL APPLICATION OF TRAFFIC CONTROL DEVICES FOR CONSTRUCTION OF RURAL LOCAL HIGHWAYS
BLR 23 - 4	TRAFFIC BARRIER TERMINAL TYPE 1
BLR 24 - 2	MAILBOX TURNOUT FOR LOCAL ROADS

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION
PLANS FOR PROPOSED
BRIDGE REPLACEMENT

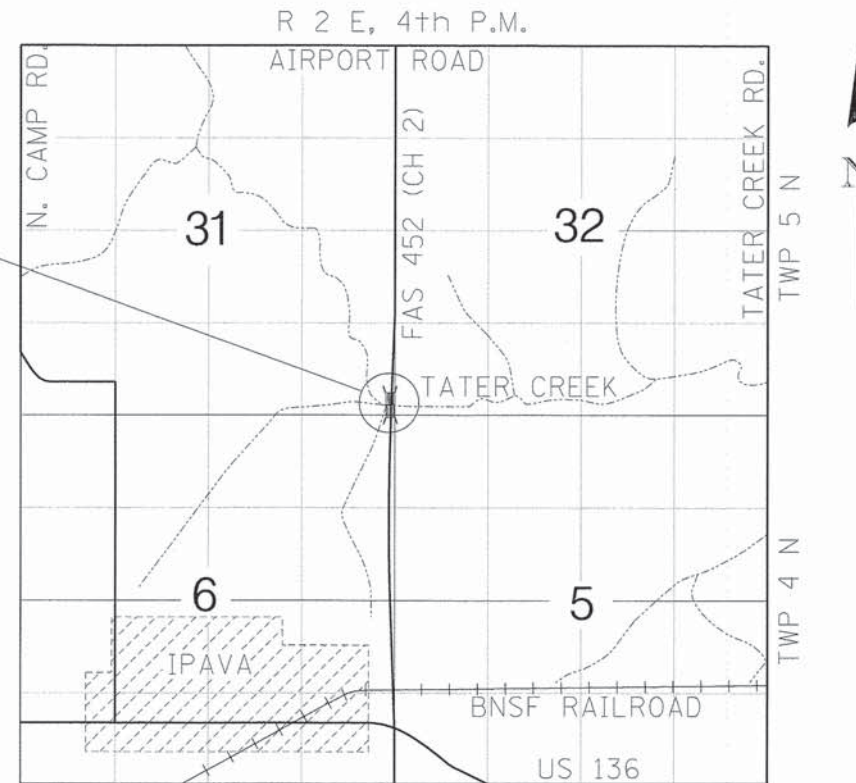
F.A.S. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
452	11-00130-08-BR	FULTON	33	1
ILLINOIS FED. AID PROJECT				



FULTON COUNTY
SECTION 11-00130-08-BR
FAS 452
COUNTY HIGHWAY 2
BRS-0452(126)
C-94-007-14
FUNDING TYPE: STP-BRIDGE



EXISTING (029-5005) & PROPOSED (029-3505) STRUCTURES



LOCATION MAP

ADT = 550 (CURRENT), 550 (DESIGN)
FUNCTIONAL CLASS = MAJOR COLLECTOR

NET LENGTH OF SECTION = 2400 FEET = 0.455 MILES



Jacob R. Wolf
Illinois Licensed Professional Engineer Number 55444
License Expires 11/30/2015

DESIGNED	-	K.J.H.
CHECKED	-	C.S.S.
DRAWN	-	C.S.S.
CHECKED	-	J.R.W.



ENGINEERING RESOURCE ASSOCIATES, INC.
CONSULTING ENGINEERS, SCIENTISTS & SURVEYORS
3002 CROSSING COURT
CHAMPAIGN, IL 61822
PHONE (217) 351-6268
FAX (217) 355-1902



FOR JOINT UTILITY INFORMATION
CALL TOLL FREE 1-800-892-0123

APPROVED *Jan 30 2015*
NICOLE GRUBE, PE FULTON COUNTY ENGINEER

PASSED *Feb. 3rd 2015*
DISRICT FOUR ENGINEER OF LOCAL ROADS & STREETS

Releasing For Bid Based on Limited Review
February 3 2015
DEPUTY DIRECTOR OF HIGHWAYS, REGION THREE ENGINEER

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

"PRINTED BY THE AUTHORITY OF THE STATE OF ILLINOIS"

SUMMARY OF QUANTITIES - SEC. 11-00130-08-BR

CODE	DESCRIPTION	UNIT	QUANTITY
• 20100500	Tree Removal, Acres	Acre	0.10
•• 20200100	Earth Excavation	Cu. Yd.	7053
21101615	Top Soil Furnish & Place, 4"	Sq. Yd.	9130
• 25000200	Seeding, Class 2	Acre	1.90
• 25000400	Nitrogen Fertilizer Nutrient	Pound	180
• 25000500	Phosphorus Fertilizer Nutrient	Pound	180
• 25000600	Potassium Fertilizer Nutrient	Pound	180
• 25100635	Heavy Duty Erosion Control Blanket	Sq. Yd.	9130
• 28000250	Temporary Erosion Control Seeding	Pound	195
• 28000305	Temporary Ditch Checks	Foot	1840
• 28000400	Perimeter Erosion Barrier	Foot	4700
•• 35700700	Pozzolanic Stabilized Base Course	Sq. Yd.	6540
40200800	Aggregate Surface Course, Type B	Ton	84
40600275	Bituminous Materials (Prime Coat)	Pound	26670
• 40603080	Hot-Mix Asphalt, Binder Course IL-19.0 N50	Ton	810
• 40603310	Hot-Mix Asphalt, Surface Course "C" N50	Ton	500
48101200	Aggregate Shoulders, Type B	Ton	520
50100100	Removal of Existing Structures	Each	1
50105220	Pipe Culverts Removal	Foot	50
50200100	Structure Excavation	Cu. Yd.	275
• 50300225	Concrete Structures	Cu. Yd.	33.6
50300260	Bridge Deck Grooving	Sq. Yd.	310
50300300	Protective Coat	Sq. Yd.	393
• 50400705	Precast Prestressed Concrete Deck Beams (42" Depth)	Sq. Ft.	2735
50800205	Reinforcement Bars, Epoxy Coated	Pound	11770
Δ 50901050	Steel Rolling, Type SM	Foot	183
• 51201400	Furnishing Steel Piles HP10x42	Foot	560
51202305	Driving Piles	Foot	560
51203400	Test Pile Steel HP10x42	Each	2
51204650	Pile Shoes	Each	18
51500100	Name Plates	Each	1
542C1063	Pipe Culverts, Class C, Type 2 18"	Foot	30
542C1069	Pipe Culverts, Class C, Type 2 24"	Foot	32
59300100	Controlled Low-Strength Material	Cu. Yd.	90
Δ 63000003	Steel Plate Beam Guardrail, Type A, 9 Ft. Posts	Foot	3751
Δ 63100087	Traffic Barrier Terminal, Type 6A	Each	4
Δ 63100167	Traffic Barrier Terminal, Type 1 (Special) Tangent	Each	8
• 67100100	Mobilization	L. Sum	1
Δ 78001110	Point Pavement Marker - Line 4"	Foot	9600
Δ 78201000	Terminal Marker - Direct Applied	Each	9
•• X5030306	Concrete Wearing Surface, 6"	Sq. Yd.	310
•• X7010216	Traffic Control and Protection (Special)	L. Sum	1
•• XX004565	Grouted Riprap	Sq. Yd.	684
•• XX004566	Concrete Cut-Off Wall	Cu. Yd.	7.2
• Z0013798	Construction Layout	L. Sum	1

- SEE STATE SPECIAL PROVISIONS.
- SEE SPECIAL PROVISIONS.
- Δ Specialty Items

GENERAL NOTES

- The locations of Existing utilities as shown on the plan are for information only, and are not guaranteed. It shall be the Contractor's responsibility to ascertain their exact location from the utility companies and by field inspection.
- See the Plan & Profile sheet for roadway and shoulder tapers.

DESIGNED -	K.J.H.
CHECKED -	C.S.S.
DRAWN -	C.S.S.
CHECKED -	J.R.W.



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UTILITIES

Call J.U.L.I.E. 1-800-892-0123
The Contractor shall coordinate the relocation of any utilities with the utility company where they conflict with the proposed improvements.

EARTHWORK SCHEDULE

LOCATION	EARTH EXCAVATION C.Y.	SHRINKAGE FACTOR	% USED	ADJUSTED EXCAVATION C.Y.	FILL REQUIRED C.Y.	EARTHWORK BALANCE C.Y.
Sta 0+00 to Sta 1+00	160	25%	100%	120	6	114
Sta 0+23 RT Field Entrance	7	25%	100%	5.5	5	114.5
LT/RT Terminal	0	25%	100%	0	5.5	109
Sta 1+00 to Sta 2+00	203	25%	100%	152.5	7.5	254
Sta 2+00 to Sta 3+00	258	25%	100%	193.5	1.5	446
Sta 3+00 to Sta 4+00	333.5	25%	100%	250	0	696
Sta 4+00 to Sta 4+50	199.5	25%	100%	149.5	0	845.5
Sta 4+50 to Sta 5+00	203.5	25%	100%	152.5	0	998
Sta 5+00 to Sta 5+50	196.5	25%	100%	147.5	1.5	1144
Sta 5+50 to Sta 6+00	209.5	25%	100%	157	1.5	1299.5
Sta 6+00 to Sta 7+00	462	25%	100%	346.5	0	1646
Sta 7+00 to Sta 8+00	478	25%	100%	358.5	0	2004.5
Sta 8+00 to Sta 9+00	486.5	25%	100%	365	6	2363.5
Sta 9+00 to Sta 10+00	405	25%	100%	304	8.5	2659
Sta 10+00 to Sta 10+53	186.5	25%	100%	140	1.5	2797.5
Sta 10+53 to Sta 11+00	151	25%	100%	113.5	0	2911
Sta 11+00 to Sta 11+44	84	25%	100%	63	2.5	2971.5
Sta 11+44 to Sta 11+55	13.5	25%	100%	10	1.5	2980
Bridge Omission						
Sta 12+42 to Sta 12+66	36.5	25%	100%	27.5	0.5	3007
Sta 12+66 to Sta 13+00	66.5	25%	100%	50	0.5	3056.5
Sta 13+00 to Sta 14+00	289.5	25%	100%	217	0	3273.5
Sta 13+42.75 RT Field Entrance	0	25%	100%	0	0	3273.5

DISTRICT 4 GENERAL NOTES

TREE REMOVAL

Fulton County should be contacted and prior approval obtained for any tree removal beyond the limits/locations included in the plans.

ENVIRONMENTAL REVIEWS

Prior to the use of any proposed borrow areas, use areas (temporary access roads, detours, run-arounds, etc.) and/or waste areas, the Contractor shall file the required environmental resource request surveys according to Section 107.22 of the Standard Specifications. These surveys are required in order for the Department to conduct cultural and biological resource surveys for the proposed site.

The required environmental resource documentation shall include the following:

- BDE Form 2289 (Cultural and Natural Resources Review of Borrow Areas)
- BDE Form 2290 (Waste/Use Area Review)
- A location map showing the size limits and location of the use area
- Color photographs depicting the use area
- Borrow Area Entry Agreement form - D4 P1010

Prior to any waste materials being removed from the construction site the required environmental resource surveys shall be obtained and filed by the Contractor. Excess waste products removed from the construction site shall be disposed of as required in Section 201.03 of the Standard Specifications.

Any protruding metal bars shall be removed prior to the disposal of broken concrete at approved disposal sites.

Please note that a minimum of four weeks shall be allowed for the District to obtain the required waste site environmental clearance and six weeks for the required borrow site environmental clearances.

ORDERING LENGTH CONFIRMATION - DRAINAGE ITEMS

The Contractor shall consult with the Engineer in regard to the exact length of the box/pipe culverts, storm sewers, and/or pipe drains required prior to ordering these items.

EARTHWORK SCHEDULE (Cont.)

LOCATION	EARTH EXCAVATION C.Y.	SHRINKAGE FACTOR	% USED	ADJUSTED EXCAVATION C.Y.	FILL REQUIRED C.Y.	EARTHWORK BALANCE C.Y.
Sta 14+00 LT/RT Terminal	0	25%	100%	0	5.5	3268
Sta 14+00 LT Field Entrance	18.5	25%	100%	14	8.5	3273.5
Sta 14+00 to Sta 15+00	380.5	25%	100%	285.5	0	3559
Sta 15+00 to Sta 15+46	195	25%	100%	146.5	0	3705.5
Sta 15+46 to Sta 16+00	222	25%	100%	166.5	0	3872
Sta 16+00 to Sta 17+00	391.5	25%	100%	293.5	0	4165.5
Sta 17+00 to Sta 17+58	257	25%	100%	193	0	4358.5
Sta 17+58 to Sta 18+00	185.5	25%	100%	139	0	4497.5
Sta 18+00 to Sta 18+55	202.5	25%	100%	152	0.5	4649
Sta 18+55 to Sta 19+00	144	25%	100%	108	1.5	4755.5
Sta 19+00 to Sta 19+49	127.5	25%	100%	95.5	4	4847
Sta 19+49 to Sta 20+00	109.5	25%	100%	82	3.5	4925.5
Sta 20+00 to Sta 20+53	91	25%	100%	68.5	4	4990
Sta 20+53 to Sta 21+00	54	25%	100%	40.5	7.5	5023
Sta 21+00 to Sta 21+50	35	25%	100%	26.5	13	5036.5
Sta 21+50 to Sta 22+00	27	25%	100%	20.5	16	5041
Sta 22+00 to Sta 22+50	30	25%	100%	22.5	13.5	5050
Sta 22+50 RT Terminal	0	25%	100%	0	2.5	5047.5
Sta 22+50 to Sta 23+00	38	25%	100%	28.5	10	5066
Sta 23+00 to Sta 23+50	50.5	25%	100%	38	5.5	5098.5
Sta 23+50 to Sta 24+00	64	25%	100%	48	1.5	5145
Sta 24+00 LT Terminal	0	25%	100%	0	2.5	5142.5

TOTALS: 7052.5= EARTH EXC.

SURPLUS = 5142.5
FURNISHED EXC. = 0

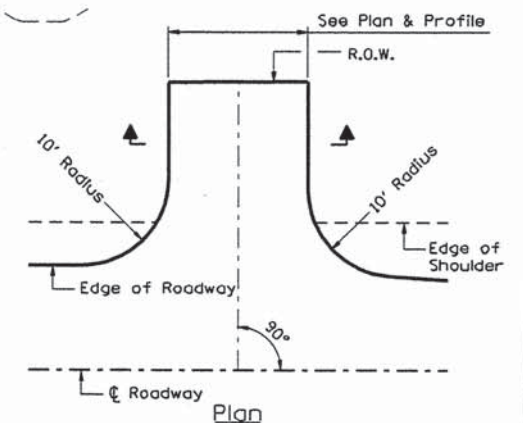
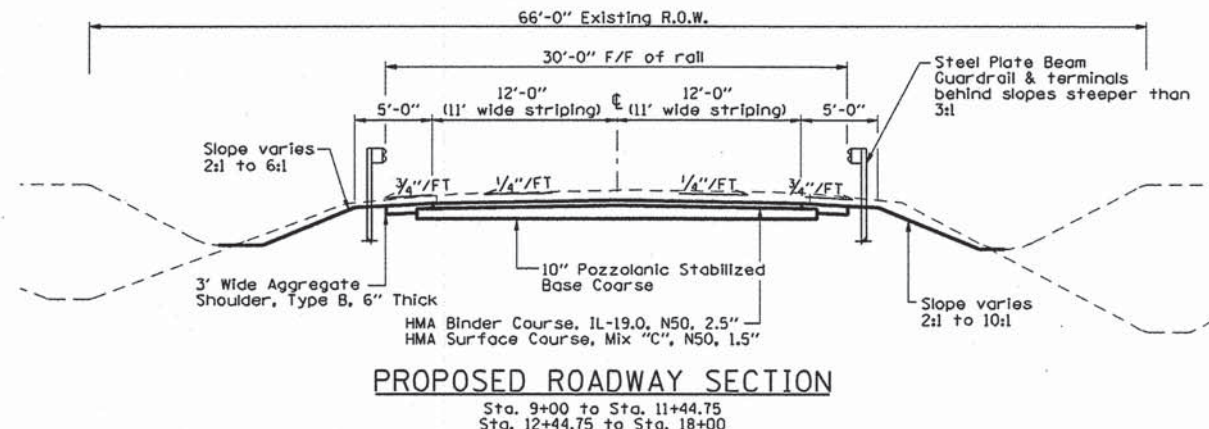
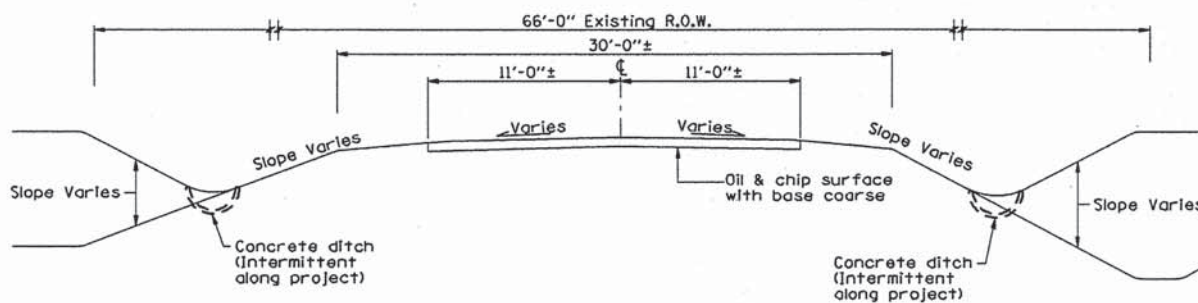
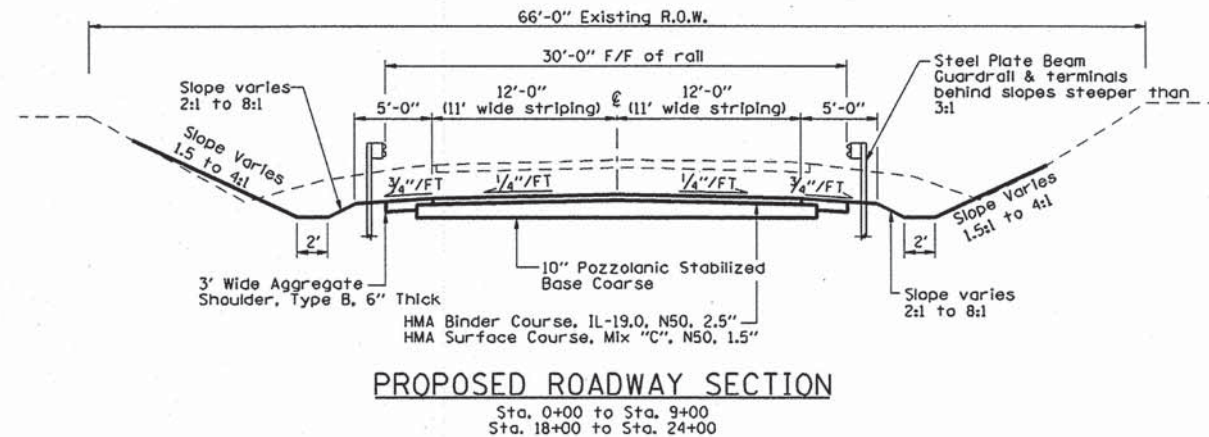
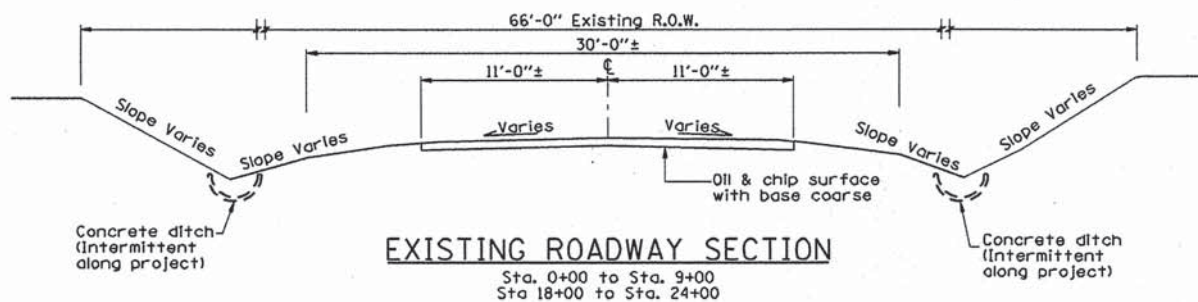
HOT-MIX ASPHALT MIXTURE REQUIREMENTS

Mixture Uses:	Surface Course	Binder Course
PG:	PG64-22	PG64-22
Design Air Voids:	4.0% @ N=50	4.0% @ N=50
Mixture Composition (Mixture Gradation):	IL-9.5	IL-19.0
Friction Aggregate:	Mix C	N.A.
Mixture Weight:	112 lbs/s.y./in.	112 lbs/s.y./in.
Quality Management Program:	OC / OA	OC / OA
Sublot Size:	N.A.	N.A.

Notes: Individual lift thickness of each mix type will be no less than three (3) times nominal maximum aggregate size and no more than 6 times nominal maximum aggregate size.

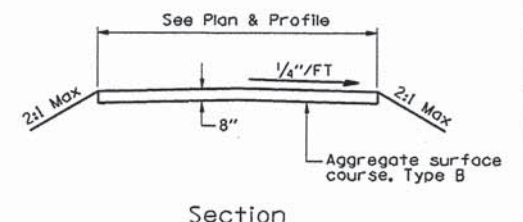
SUMMARY OF QUANTITIES, GENERAL NOTES, AND EARTHWORK
FAS 452 (CH2) OVER TATER CREEK
SEC 11-00130-08-BR
FULTON COUNTY

F.A.S. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
452	11-00130-08-BR	FULTON	33	2
CONTRACT NO. 89649				
[ILLINOIS] FED. AID PROJECT				



ENTRANCE DETAIL

Field Ent = Sta 0+23.0 RT
Field Ent = Sta 13+42.75 RT
Field Ent = Sta 14+51.75 LT



ENTRANCE DETAIL

Field Ent = Sta 0+23.0 RT
Field Ent = Sta 13+42.75 RT
Field Ent = Sta 14+51.75 LT

20100500
TREE REMOVAL, ACRES

LOCATION	ACRES
STA. 5+75.00 TO STA. 11+50.00 RT	0.08
STA. 12+50.00 TO STA. 12+90.00 RT	0.02
STR % = 0%	TOTAL 0.10

35700700
POZZOLANIC STABILIZED BASE COURSE

LOCATION	SQ FT
STA. 0+00.00 TO STA. 6+00.00	1700
STA. 18+00.00 TO STA. 24+00.00	1700
STA. 6+00.00 TO STA. 11+51.75	1565
STA. 12+44.75 TO STA. 18+00.00	1575
STR % = 52%	TOTAL 6540

40200800
AGGREGATE SURFACE COURSE, TYPE B

LOCATION	TONS
STA. 0+23.00 RT Field Ent.	18
STA. 13+42.75 RT Field Ent.	18
STA. 14+51.75 LT Field Ent.	18
STA. 23+95.50 Mailbox turnout	30
STR % = 57%	TOTAL 84

40600275
BITUMINOUS MATERIALS (PRIME COAT)

LOCATION	POUND
STA. 0+00.00 TO STA. 6+00.00	6940
STA. 18+00.00 TO STA. 24+00.00	6940
STA. 6+00.00 TO STA. 11+51.75	6370
STA. 12+44.75 TO STA. 18+00.00	6420
STR % = 50%	TOTAL 26670

DESIGNED -	K.J.H.
CHECKED -	C.S.S.
DRAWN -	C.S.S.
CHECKED -	J.R.W.

40603080
HMA BC IL-19.0 N50

LOCATION	TONS
STA. 0+00.00 TO STA. 6+00.00	210
STA. 18+00.00 TO STA. 24+00.00	210
STA. 6+00.00 TO STA. 11+51.75	195
STA. 12+44.75 TO STA. 18+00.00	195
STR % = 52%	TOTAL 810

40603310
HMA SC "C" N50

LOCATION	TONS
STA. 0+00.00 TO STA. 6+00.00	130
STA. 18+00.00 TO STA. 24+00.00	130
STA. 6+00.00 TO STA. 11+51.75	120
STA. 12+44.75 TO STA. 18+00.00	120
STR % = 52%	TOTAL 500

48101200
AGGREGATE SHOULDERS, TYPE B

LOCATION	TONS
STA. 0+00.00 TO STA. 6+00.00	135
STA. 18+00.00 TO STA. 24+00.00	135
STA. 6+00.00 TO STA. 11+51.75	125
STA. 12+44.75 TO STA. 18+00.00	125
STR % = 52%	TOTAL 520

63000003
STEEL PLATE BEAM GUARDRAIL, TYPE A, 9 FT POSTS

LOCATION	FEET
STA. 0+71.73 TO STA. 2+21.73 LT	150.0
STA. 2+21.73 TO STA. 5+08.81 LT	287.5
STA. 5+08.81 TO STA. 11+08.81 LT	600.0
STA. 0+95.89 TO STA. 2+20.89 RT	125.0
STA. 2+20.89 TO STA. 5+08.81 RT	287.5
STA. 5+08.81 TO STA. 11+08.81 RT	600.0
STA. 12+87.69 TO STA. 13+75.19 LT	87.5
STA. 14+17.75 TO STA. 19+92.75 RT	575.0
STA. 19+92.75 TO STA. 22+04.92 RT	212.5
STA. 14+71.50 TO STA. 19+96.50 LT	475.0
STA. 19+96.50 TO STA. 23+47.04 LT	350.0
STR % = 52%	TOTAL 3751

63100167
TRAFFIC BARRIER TERMINAL, TYPE 1 (SPECIAL) TANGENT

LOCATION	EACH
STA. 0+21.73 TO STA. 0+71.73 LT	1
STA. 0+45.89 TO STA. 0+95.89 RT	1
STA. 12+87.69 TO STA. 13+25.19 RT	1
STA. 13+75.19 TO STA. 14+25.19 LT	1
STA. 13+67.75 TO STA. 14+17.75 RT	1
STA. 14+71.50 TO STA. 15+21.50 LT	1
STA. 22+04.92 TO STA. 22+54.92 RT	1
STA. 23+47.04 TO STA. 23+97.04 LT	1
STR % = 57%	TOTAL 8

50800205
REINFORCEMENT BARS, EPOXY COATED

LOCATION	POUND
STA. 13+33.15	4410
STA. 14+63.54	7360
STR % = 0%	TOTAL 11770

63100087
TRAFFIC BARRIER TERMINAL, TYPE 6A

LOCATION	EACH
STA. 11+08.81 TO STA. 11+52.56 LT/RT	2
STA. 12+43.94 TO STA. 12+87.69 LT/RT	2
STR % = 0%	TOTAL 4

78001110
PAINT PAVEMENT MARKING - LINE 4"

LOCATION	FEET
STA. 0+00 TO STA. 6+00 2 WHITE, 2 YELLOW	2400
STA. 6+00 TO STA. 18+00 2 WHITE, 2 YELLOW	4800
STA. 18+00 TO STA. 24+00 2 WHITE, 2 YELLOW	2400
STR % = 50%	TOTAL 9600

TYPICAL SECTIONS & SCHEDULE OF QUANTITIES

FAS 452 (CH2) OVER TATER CREEK
SEC 11-00130-08-BR
FULTON COUNTY

F.A.S. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
452	11-00130-08-BR	FULTON	33	3
CONTRACT NO. 89649				
ILLINOIS FED. AID PROJECT				

BM #1 - R.R. Spike in Power Pole at STA 1+73.5, 32.5' LT., Elev. 163.07

NE 1/4, SEC. 6, T 4 N., R 2 E., 4th P.M.

20 0 20 40

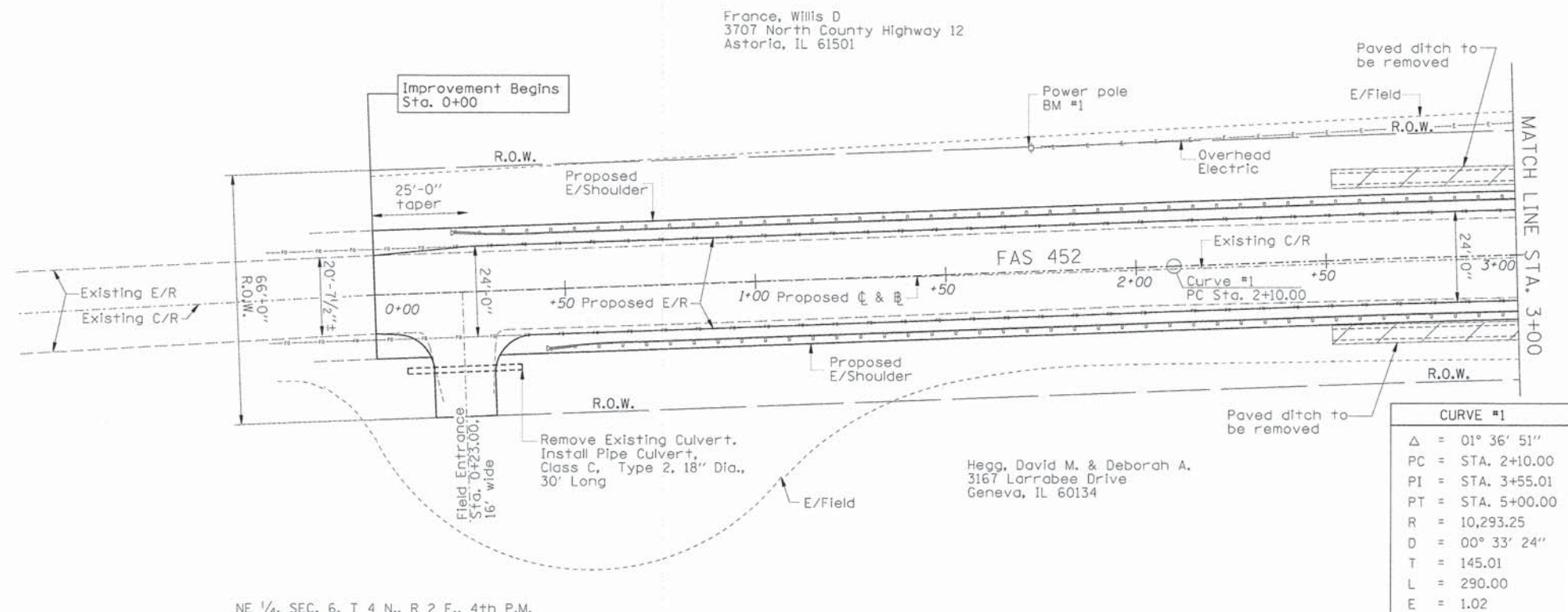
SCALE 1" = 20'



LEGEND

- Paved ditch removal
- Fiber optic line
- Overhead electric line
- Brush line
- Right of Way
- Guardrail
- Fence
- Area of existing riprap
- Tree - multiple trunk
- Power pole

DATE	
BY	
REVISIONS	
NO.	
DESCRIPTION	



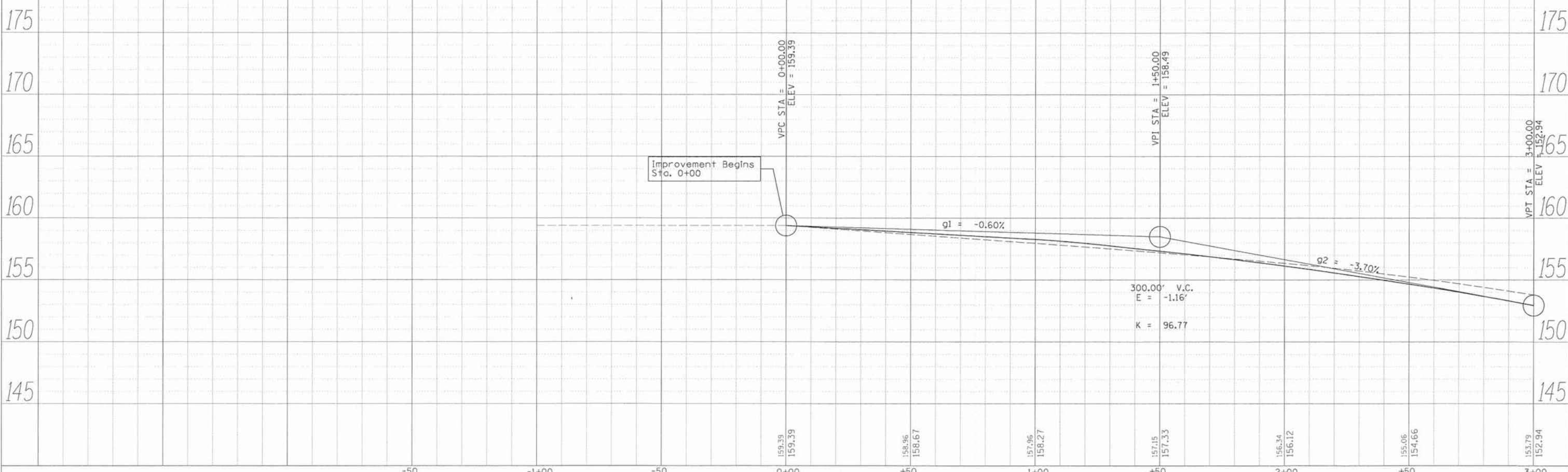
CURVE #1	
Δ	= 01° 36' 51"
PC	= STA. 2+10.00
PI	= STA. 3+55.01
PT	= STA. 5+00.00
R	= 10,293.25
D	= 00° 33' 24"
T	= 145.01
L	= 290.00
E	= 1.02

Hegg, David M. & Deborah A.
3167 Larrabee Drive
Geneva, IL 60134

CALL J.U.L.I.E. 1-800-892-0123
The contractor shall coordinate the relocation of any utilities with the utility company where they conflict with the proposed improvements.

NE 1/4, SEC. 6, T 4 N., R 2 E., 4th P.M.

DATE	
BY	
REVISIONS	
NO.	
DESCRIPTION	

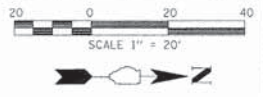


	USER NAME =	DESIGNED - KJH	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	PLAN AND PROFILE STA. 0+00 TO STA. 3+00	F.A.S. RTE. 452	SECTION 11-00130-08-BR	COUNTY FULTON	TOTAL SHEETS 33	SHEET NO. 4
	PLDT SCALE =	CHECKED - CSS	REVISED -						CONTRACT NO. 89649	ILLINOIS FED. AID PROJECT
	PLDT DATE =	DRAWN - CSS	REVISED -	SCALE: 1" = 20' H	SHEET 1 OF 8 SHEETS	STA. 0+00 TO STA. 3+00				
		CHECKED - JRW	REVISED -							

BM #2 - R.R. Spike in post at STA 6+89.5, 49' LT., Elev. 140.27

CURVE #1	
Δ	= 01° 36' 51"
PC	= STA. 2+10.00
PI	= STA. 3+55.01
PT	= STA. 5+00.00
R	= 10,293.25
D	= 00° 33' 24"
T	= 145.01
L	= 290.00
E	= 1.02

NE 1/4, SEC. 6, T 4 N., R 2 E., 4th P.M.

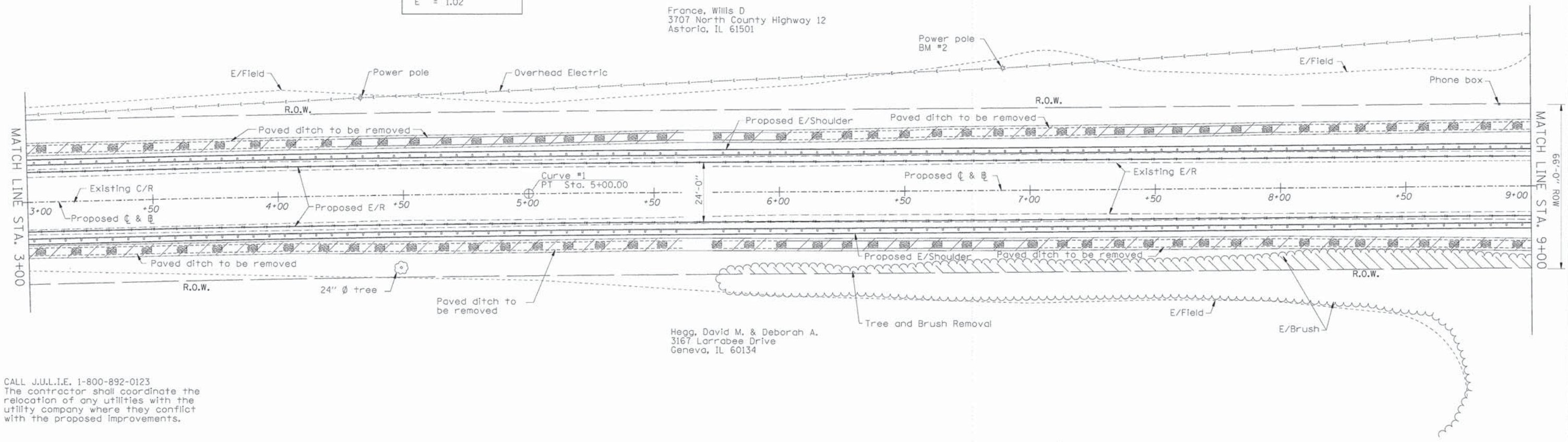


DATE	BY

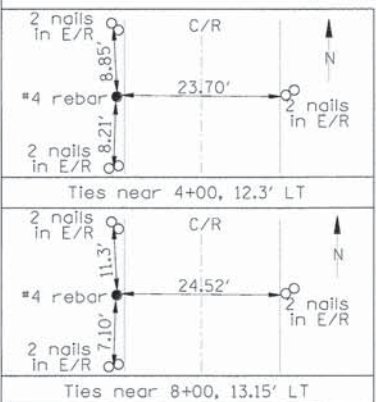
DATE	BY

France, Willis D
3707 North County Highway 12
Astoria, IL 61501

Hegg, David M. & Deborah A.
3167 Larrabee Drive
Geneva, IL 60134



CALL J.U.L.I.E. 1-800-892-0123
The contractor shall coordinate the relocation of any utilities with the utility company where they conflict with the proposed improvements.



LEGEND	
	Paved ditch removal
	Fiber optic line
	Overhead electric line
	Brush line
	Right of Way
	Guardrail
	Fence
	Area of existing riprap
	Tree - multiple trunk
	Power pole



USER NAME *	DESIGNED - KJH	REVISED -
PLOT SCALE *	CHECKED - CSS	REVISED -
PLOT DATE *	DRAWN - CSS	REVISED -
	CHECKED - JRW	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

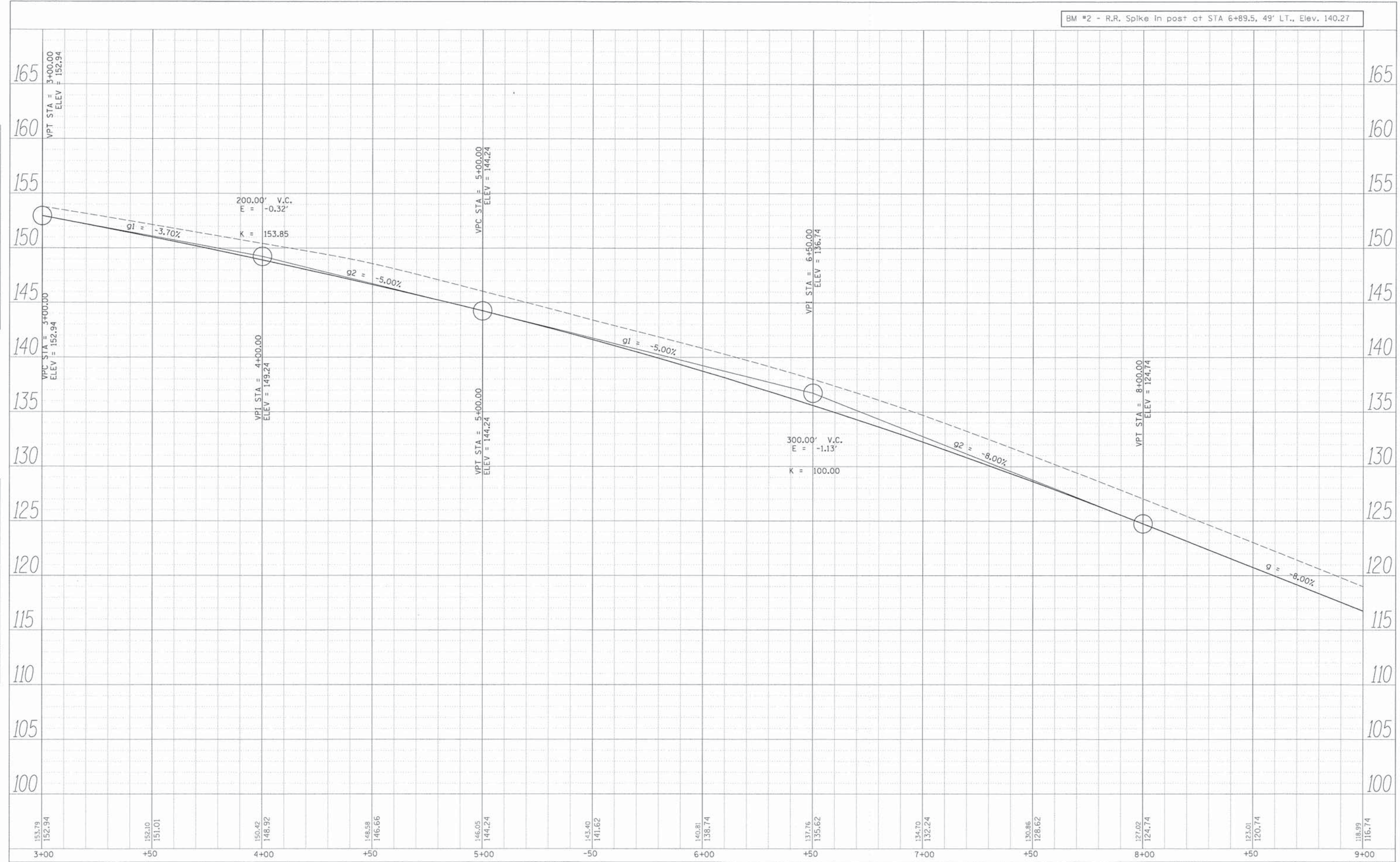
PLAN SHEET STA. 3+00 TO STA. 9+00
SCALE: 1" = 20' H SHEET 2 OF 8 SHEETS STA. 3+00 TO STA. 9+00

F.A.S. RTE. 452	SECTION 11-00130-08-BR	COUNTY FULTON	TOTAL SHEETS 33	SHEET NO. 5
CONTRACT NO. 89649				
ILLINOIS FED. AID PROJECT				

BM #2 - R.R. Spike in post of STA 6+89.5, 49' LT., Elev. 140.27

PLAN	DESIGNED	DATE
	BY	
	CHECKED	
	DATE	
	NO.	

PROFILE	DESIGNED	DATE
	BY	
	CHECKED	
	DATE	
	NO.	



153.79	152.10	150.42	146.58	146.05	143.40	140.81	137.76	134.70	130.86	127.02	125.01	118.99
152.94	151.01	148.92	146.66	144.24	141.62	138.74	135.62	132.24	128.62	124.74	120.74	116.74
3+00	+50	4+00	+50	5+00	-50	6+00	+50	7+00	+50	8+00	+50	9+00

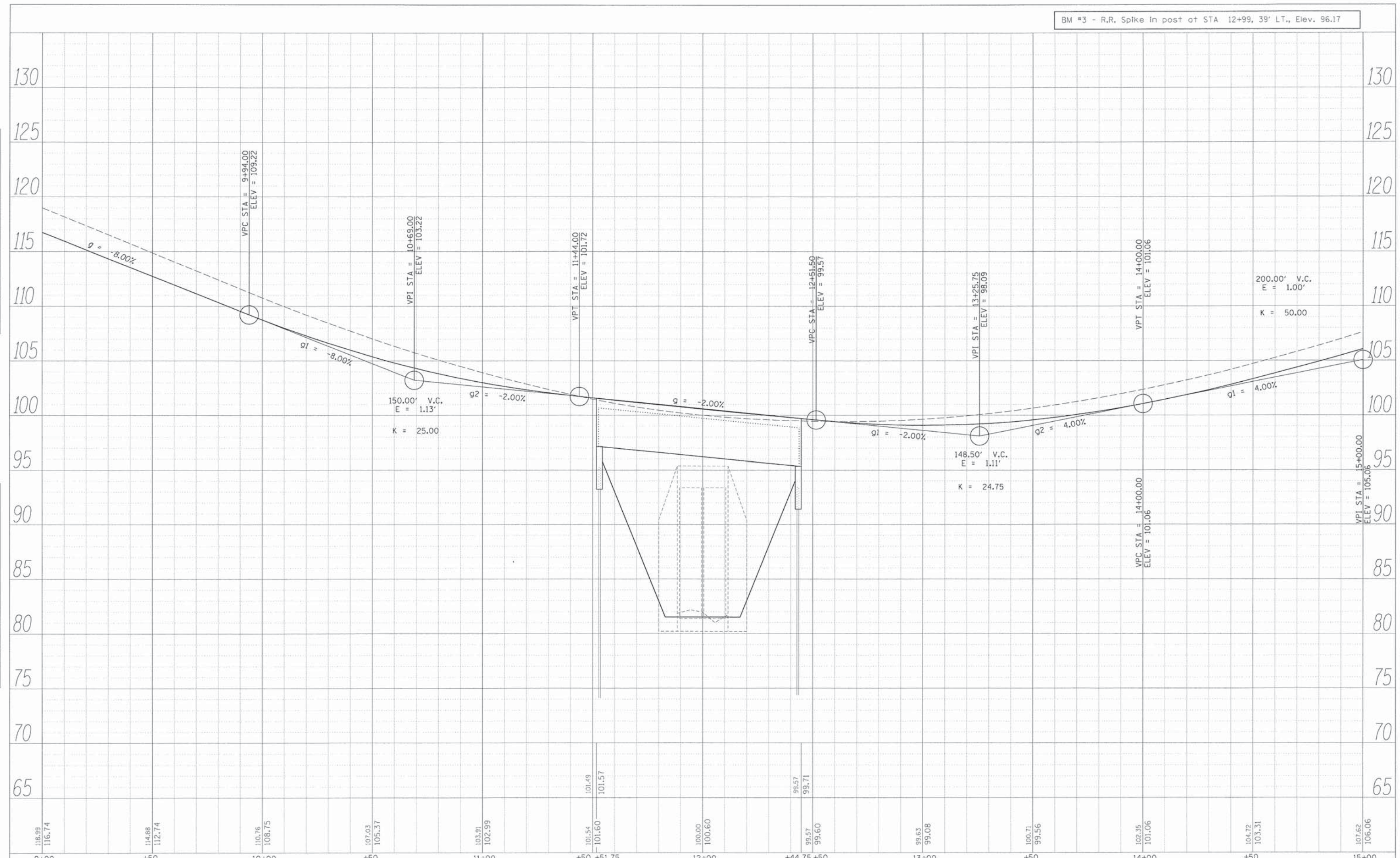
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PLLOT SCALE *	CHECKED - CSS	REVISED -
PLLOT DATE *	DRAWN - CSS	REVISED -
	CHECKED - JRW	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

PROFILE SHEET STA. 3+00 to STA. 9+00
SCALE: 1" = 20' H SHEET 3 OF 8 SHEETS STA. 3+00 TO STA. 9+00

F.A.S. RTE. 452	SECTION 11-00130-08-BR	COUNTY FULTON	TOTAL SHEETS 33	SHEET NO. 6
CONTRACT NO. 89649				
ILLINOIS FED. AID PROJECT				

BM #3 - R.R. Spike in post at STA 12+99, 39' LT., Elev. 96.17



PLAN	DATE
NO.	BY
CHECKED	DATE
NOTED	BY
ADD. FILE NAME	

PROFILE	DATE
NO.	BY
CHECKED	DATE
NOTED	BY
ADD. FILE NAME	

9+00	+50	10+00	+50	11+00	+50	+51.75	12+00	+44.75	+50	13+00	+50	14+00	+50	15+00													
116.99	116.74	114.88	112.74	110.76	108.75	107.03	105.37	103.91	102.99	101.54	101.60	101.49	101.57	100.00	100.60	99.57	99.60	99.63	99.08	100.71	99.56	102.35	101.06	104.72	103.31	107.62	106.06

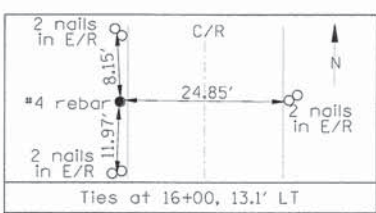
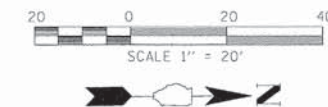
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PLOT SCALE =	CHECKED - CSS	REVISED -
PLOT DATE =	DRAWN - CSS	REVISED -
	CHECKED - JRW	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

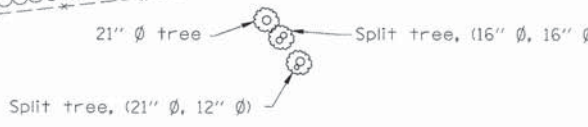
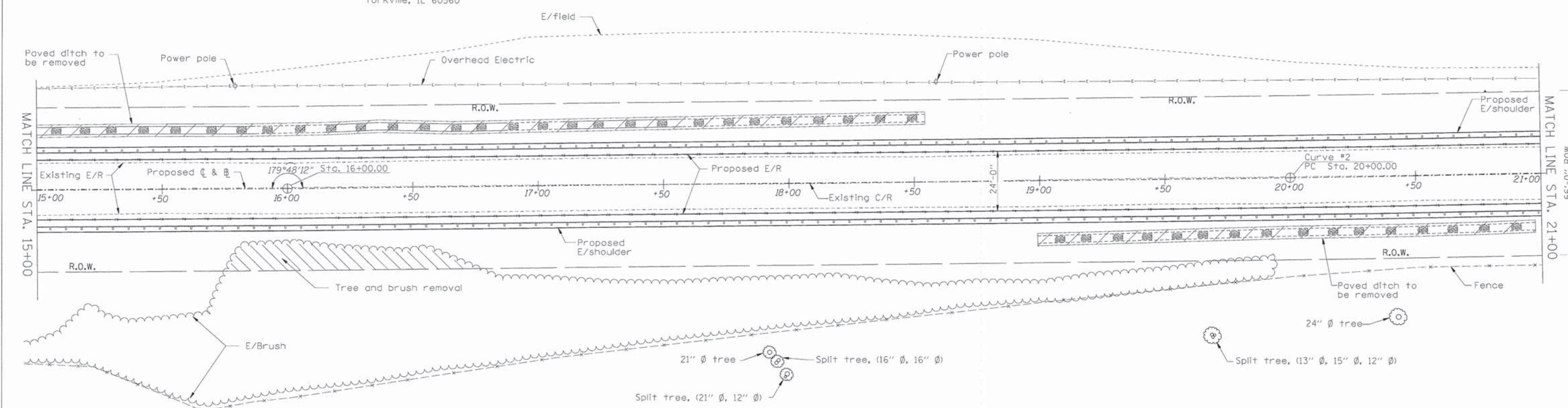
PROFILE SHEET STA. 9+00 to STA. 15+00
SCALE: 1" = 20' H SHEET 5 OF 8 SHEETS STA. 9+00 TO STA. 15+00

F.A.S. RTE. 452	SECTION 11-00130-08-BR	COUNTY FULTON	TOTAL SHEETS 33	SHEET NO. 8
CONTRACT NO. 89649			ILLINOIS FED. AID PROJECT	

SE 1/4, SEC. 31, T 5 N., R 2 E., 4th P.M.



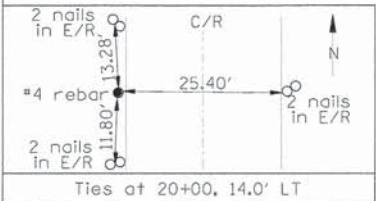
Peterson, Loren R.
6950 Minkler Road
Yorkville, IL 60560



Roddis Robert Dean Jr. TTEE C/O
Robert D. Sr. & Sandra L. Roddis Etal
12265 N. County Highway 2
Ipava, IL 61441

CURVE #2	
Δ	= 02° 21' 04"
PC	= STA. 20+00.00
PI	= STA. 22+00.03
PT	= STA. 24+00.00
R	= 9,748.08
D	= 00° 35' 16"
T	= 200.03
L	= 400.00
E	= 2.05

LEGEND	
	Paved ditch removal
	Fiber optic line
	Overhead electric line
	Brush line
	Right of Way
	Guardrail
	Fence
	Area of existing riprap
	Tree - multiple trunk
	Power pole



PLAN	DATE
DESIGNED	
CHECKED	
PLOTTED	
NOTE BOOK NO.	
FILE NAME	

PROFILE	DATE
DESIGNED	
CHECKED	
PLOTTED	
NOTE BOOK NO.	
FILE NAME	



USER NAME	DESIGNED	REVISIONS
KJH	KJH	1 -
CSS	CSS	2 -
JRW	JRW	3 -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

PLAN SHEET STA. 15+00 TO STA. 21+00

SCALE: 1" = 20' H SHEET 6 OF 8 SHEETS STA. 15+00 TO STA. 21+00

F.A.S. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
452	11-00130-08-BR	FULTON	33	9

CONTRACT NO. 89649
ILLINOIS FED. AID PROJECT

PLAN	DESIGNED	BY	DATE
	PLOTTED		
	GRADES CHECKED		
	ALIGNMENT CHECKED		
	NOTE BOOK NO.		
	DATE		
	FILE NAME		
	CADD FILE NAME		

PROFILE	DESIGNED	BY	DATE
	PLOTTED		
	GRADES CHECKED		
	ALIGNMENT CHECKED		
	NOTE BOOK NO.		
	DATE		
	FILE NAME		
	CADD FILE NAME		



15+00	+50	16+00	+50	17+00	+50	18+00	+50	19+00	+50	20+00	+50	21+00
107.62 106.06	111.03 109.39	114.59 113.06	118.48 117.06	122.38 121.06	126.50 125.06	130.46 129.06	134.29 133.06	137.76 136.84	140.81 140.20	143.47 143.14	145.60 145.64	147.23 147.72

USER NAME =	DESIGNED - KJH	REVISED -
PLLOT SCALE =	CHECKED - CSS	REVISED -
PLLOT DATE =	DRAWN - CSS	REVISED -
	CHECKED - JRW	REVISED -

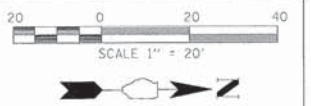
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

PROFILE SHEET STA. 15+00 to STA. 21+00
SCALE: 1" = 20' H SHEET 7 OF 8 SHEETS STA. 15+00 TO STA. 21+00

F.A.S. RTE. 452	SECTION 11-00130-08-BR	COUNTY FULTON	TOTAL SHEETS 33	SHEET NO. 10
CONTRACT NO. 89649				
ILLINOIS FED. AID PROJECT				

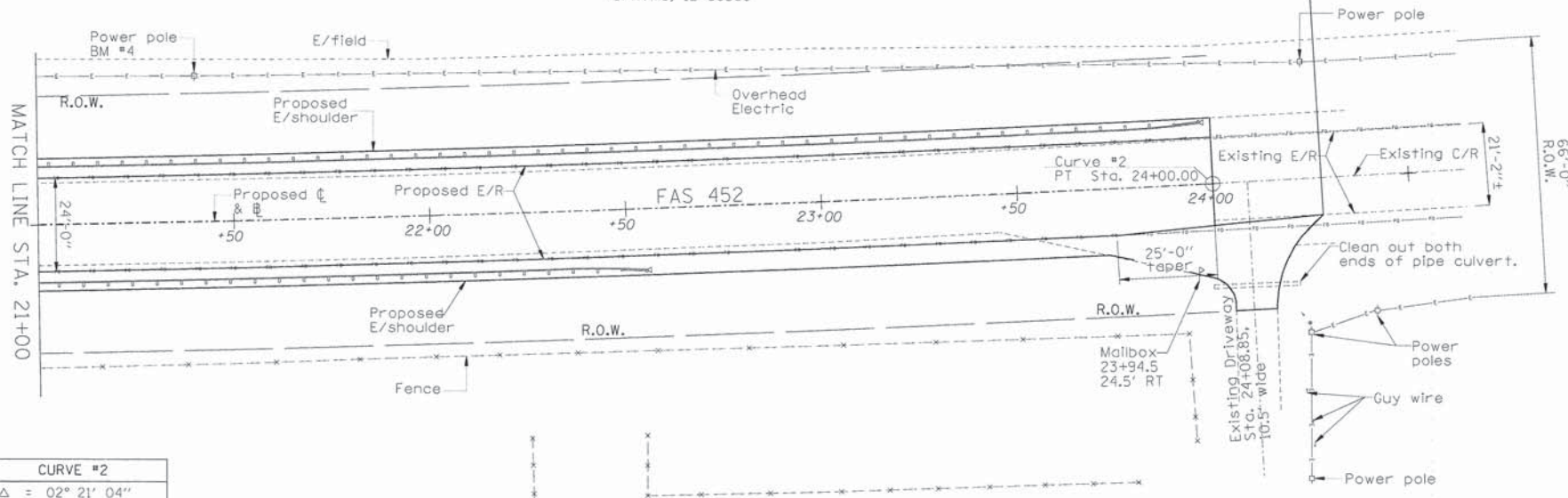
BM #4 - R.R. Spike in Power Pole at STA 21+40.5, 37.5' LT., Elev. 156.10

SE 1/4, SEC. 31, T 5 N., R 2 E., 4th P.M.



Peterson, Loren R.
6950 Minkler Road
Yorkville, IL 60560

Improvement Ends
Sta. 24+25



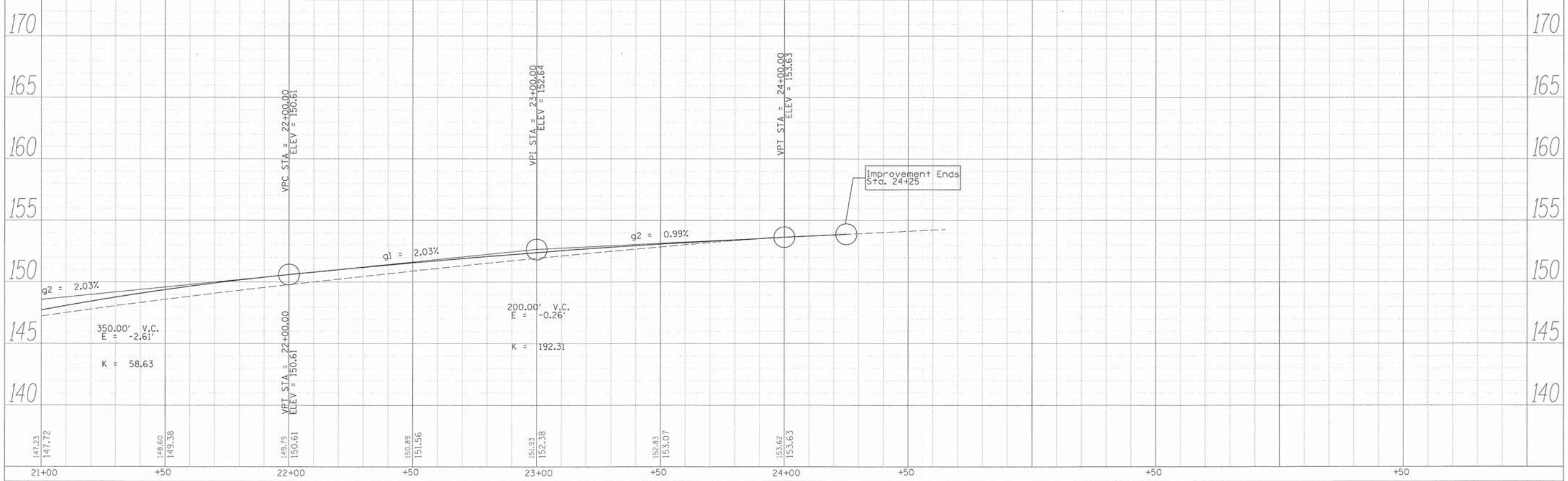
LEGEND	
	Paved ditch removal
	Fiber optic line
	Overhead electric line
	Brush line
	Right of Way
	Guardrail
	Fence
	Area of existing riprap
	Tree - multiple trunk
	Power pole

CURVE #2	
Δ	= 02° 21' 04"
PC	= STA. 20+00.00
PI	= STA. 22+00.03
PT	= STA. 24+00.00
R	= 9,748.08
D	= 00° 35' 16"
T	= 200.03
L	= 400.00
E	= 2.05

CALL J.U.L.I.E. 1-800-892-0123
The contractor shall coordinate the relocation of any utilities with the utility company where they conflict with the proposed improvements.

Roddis Robert Dean Jr. TTEE C/O
Robert D. Sr. & Sandra L. Roddis Etal
12265 N. County Highway 2
Ipava, IL 61441

SW 1/4, SEC. 32, T 5 N., R 2 E., 4th P.M.



Improvement Ends
Sta. 24+25



ENGINEERING RESOURCE ASSOCIATES, INC. CONSULTING ENGINEERS, SCIENTISTS & SURVEYORS	USER NAME *	DESIGNED - KJH	REVISIONS
	PLDT SCALE *	CHECKED - CSS	REVISIONS
	PLDT DATE *	DRAWN - CSS	REVISIONS
		CHECKED - JRW	REVISIONS

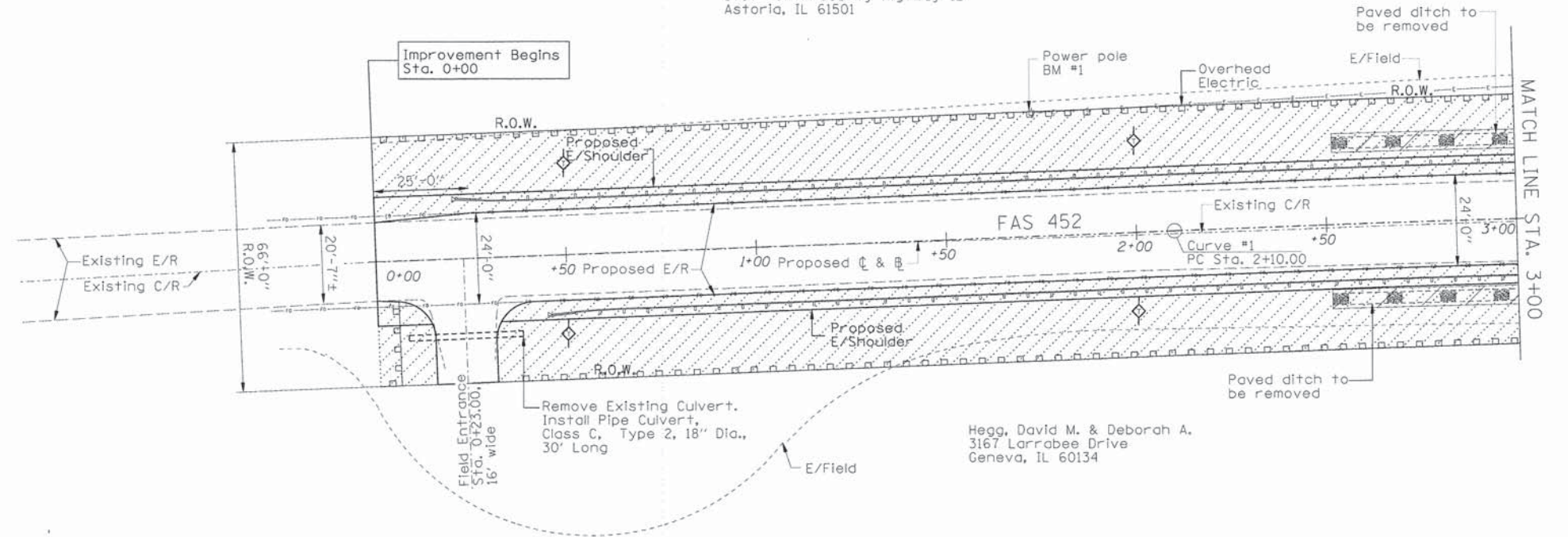
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

PLAN AND PROFILE STA. 21+00 to STA. 24+25
SCALE: 1" = 20' H | SHEET 8 OF 8 SHEETS | STA. 21+00 TO STA. 24+00

F.A.S. RTE. 452	SECTION 11-00130-08-BR	COUNTY FULTON	TOTAL SHEETS 33	SHEET NO. 11
				CONTRACT NO. 89649
ILLINOIS FED. AID PROJECT				



France, Willis D
3707 North County Highway 12
Astoria, IL 61501



EROSION CONTROL SEQUENCE

1. Placement of perimeter erosion control barrier prior to commencement of any work. See Standard 280001.
2. Removal of the existing structure
3. Earth excavation & structure excavation.
5. Construction of the substructure.
6. Placement of PPC deck beams
7. Place riprap.
8. Regrade for aggregate surface course placement and shoulders.
9. Install guardrail and bridge rail.
10. Removal and proper clean up of the temporary erosion controls.
11. Placement of the permanent erosion controls.

PERMANENT EROSION CONTROL

Heavy Duty Erosion Control Blanket
Seeding, Cl. 2 with Fertilizer

TEMPORARY EROSION CONTROL

- Temporary Ditch Check
- Perimeter Erosion Barrier
- Temporary Erosion Control Seeding

NICOLE GRUBE, PE FULTON COUNTY ENGINEER DATE

DATE	
BY	
REVISIONS	
NO.	
DATE	
BY	
REVISIONS	
NO.	
DATE	
BY	
REVISIONS	
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DATE	
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DATE	
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REVISIONS	
NO.	



ENGINEERING RESOURCE ASSOCIATES, INC.
CONSULTING ENGINEERS, SCIENTISTS & SURVEYORS

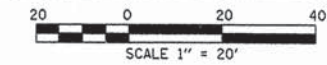
USER NAME =	DESIGNED - KJH	REVISIONS -
PLOT SCALE =	CHECKED - CSS	REVISIONS -
PLOT DATE =	DRAWN - CSS	REVISIONS -
	CHECKED - JRW	REVISIONS -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

EROSION CONTROL STA. 0+00 to STA. 3+00
SCALE: 1" = 20' H SHEET 1 OF 5 SHEETS STA. 0+00 TO STA. 3+00

F.A.S. RTE. 452	SECTION 11-00130-08-BR	COUNTY FULTON	TOTAL SHEETS 33	SHEET NO. 12
CONTRACT NO. 89649			ILLINOIS FED. AID PROJECT	

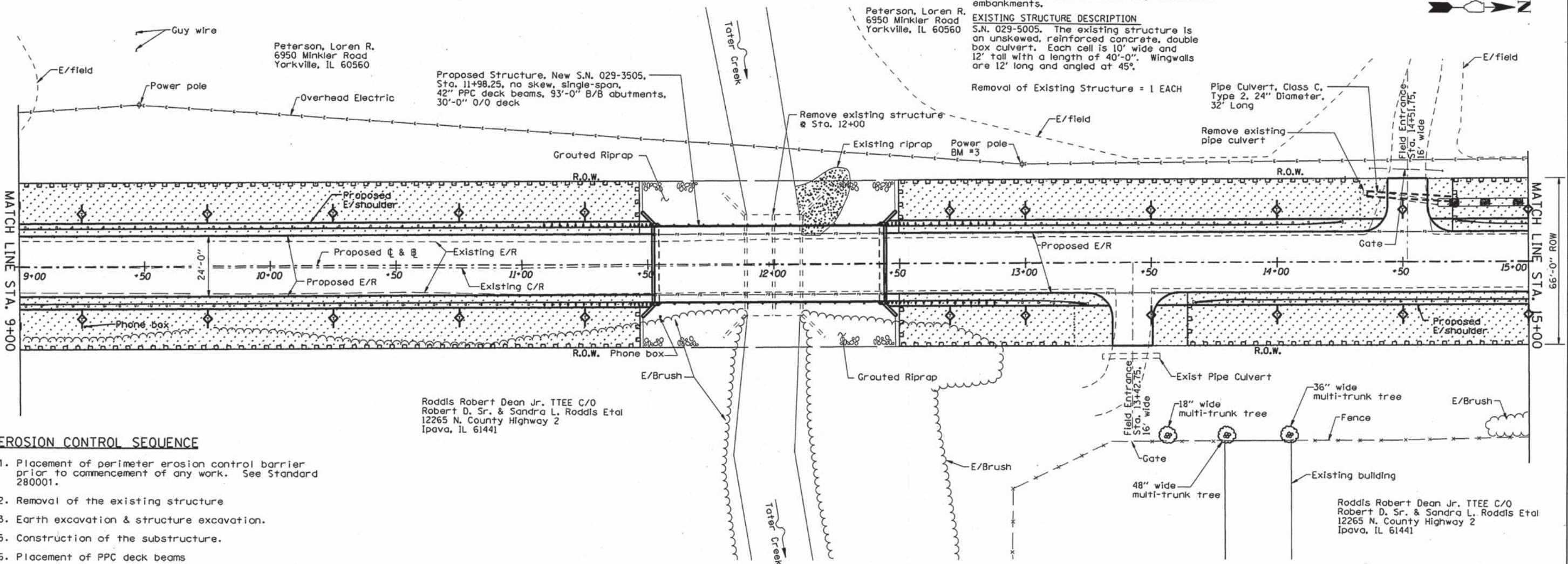
CHANNEL EXCAVATION
The Channel shall be excavated as shown within the existing right-of-way. Suitable excavated materials may be used in embankments.



EXISTING STRUCTURE DESCRIPTION
S.N. 029-5005. The existing structure is an unskewed, reinforced concrete, double box culvert. Each cell is 10' wide and 12' tall with a length of 40'-0". Wingwalls are 12' long and angled at 45°.

Removal of Existing Structure = 1 EACH

Pipe Culvert, Class C, Type 2, 24" Diameter, 32' Long



EROSION CONTROL SEQUENCE

1. Placement of perimeter erosion control barrier prior to commencement of any work. See Standard 280001.
2. Removal of the existing structure
3. Earth excavation & structure excavation.
5. Construction of the substructure.
6. Placement of PPC deck beams
7. Place riprap.
8. Regrade for aggregate surface course placement and shoulders.
9. Install guardrail and bridge rail.
10. Removal and proper clean up of the temporary erosion controls.
11. Placement of the permanent erosion controls.

PERMANENT EROSION CONTROL

- Heavy Duty Erosion Control Blanket
- Seeding, Cl. 2 with Fertilizer

TEMPORARY EROSION CONTROL

- Temporary Ditch Check
- Perimeter Erosion Barrier
- Temporary Erosion Control Seeding

TEMPORARY DITCH CHECKS		
LOCATION	LT/RT	FOOT
STA. 0+50	LT/RT	40
STA. 2+00	LT/RT	40
STA. 3+50	LT/RT	40
STA. 4+25	LT/RT	40
STA. 4+75	LT/RT	40
STA. 5+25	LT/RT	40
STA. 5+75	LT/RT	40
STA. 6+25	LT/RT	40
STA. 6+75	LT/RT	40
STA. 7+25	LT/RT	60
STA. 7+75	LT/RT	60
STA. 8+25	LT/RT	60
STA. 8+75	LT/RT	60
STA. 9+25	LT/RT	60
STA. 9+75	LT/RT	60
STA. 10+25	LT/RT	60
STA. 10+75	LT/RT	60
STA. 11+25	LT/RT	60
STA. 12+70	LT/RT	60

TEMPORARY DITCH CHECKS (Cont.)		
LOCATION	LT/RT	FOOT
STA. 13+00	LT/RT	60
STA. 13+50	LT/RT	60
STA. 14+00	LT/RT	60
STA. 14+50	LT/RT	60
STA. 15+00	LT/RT	60
STA. 15+50	LT/RT	60
STA. 16+00	LT/RT	60
STA. 16+50	LT/RT	60
STA. 17+00	LT/RT	40
STA. 17+50	LT/RT	40
STA. 18+00	LT/RT	40
STA. 18+50	LT/RT	40
STA. 19+00	LT/RT	40
STA. 19+50	LT/RT	40
STA. 20+00	LT/RT	40
STA. 20+50	LT/RT	40
STA. 22+00	LT/RT	40
STA. 23+50	LT/RT	40
STR % = 30%	TOTAL	1840

TEMPORARY EROSION CONTROL SEEDING			
LOCATION	LT/RT	FOOT	POUND
STA. 0+00.00 TO STA. 6+00.00	LT/RT	1200	50
STA. 6+00.00 TO STA. 11+51.75	LT/RT	1150	50
STA. 12+44.75 TO STA. 18+00.00	LT/RT	1150	50
STA. 18+00.00 TO STA. 24+00.00	LT/RT	1200	45
STR % = 51%	TOTAL		195

PERIMETER EROSION BARRIER			
LOCATION	LT/RT	FOOT	POUND
STA. 0+00.00 TO STA. 6+00.00	LT/RT	1200	1150
STA. 6+00.00 TO STA. 11+51.75	LT/RT	1150	1150
STA. 12+44.75 TO STA. 18+00.00	LT/RT	1150	1150
STR % = 48%	TOTAL		4700

NITROGEN FERTILIZER NUTRIENT			
PHOSPHORUS FERTILIZER NUTRIENT			
POTASSIUM FERTILIZER NUTRIENT			
LOCATION	LT/RT	FOOT	POUND
STA. 0+00.00 TO STA. 6+00.00	LT/RT	1200	45
STA. 6+00.00 TO STA. 11+51.75	LT/RT	1150	45
STA. 12+44.75 TO STA. 18+00.00	LT/RT	1150	45
STA. 18+00.00 TO STA. 24+00.00	LT/RT	1200	45
STR % = 52%	TOTAL		180

NICOLE GRUBE, PE FULTON COUNTY ENGINEER DATE

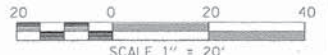


USER NAME =	DESIGNED - K.JH	REVISED -
PLLOT SCALE =	CHECKED - CSS	REVISED -
PLLOT DATE =	DRAWN - CSS	REVISED -
	CHECKED - JRW	REVISED -

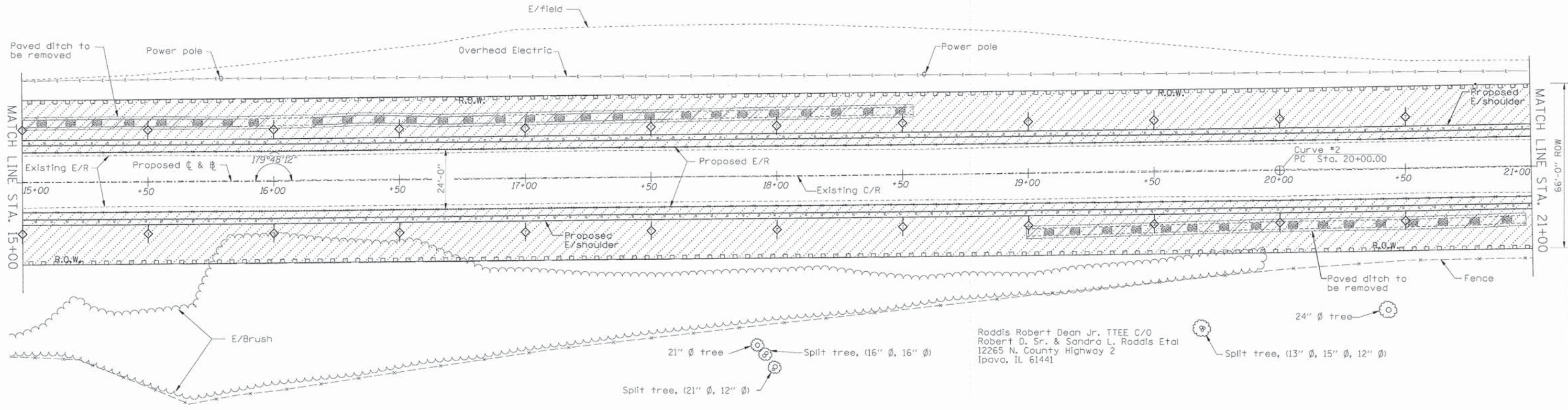
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

EROSION CONTROL STA 9+00 TO STA 15+00
SCALE: 1" = 20' H SHEET 3 OF 5 SHEETS STA. 9+00 TO STA. 15+00

F.A.S. RTE. 452	SECTION 11-00130-08-BR	COUNTY FULTON	TOTAL SHEETS 33	SHEET NO. 14
CONTRACT NO. 89649				
ILLINOIS FED. AID PROJECT				



Peterson, Loren R.
6950 Minkler Road
Yorkville, IL 60560



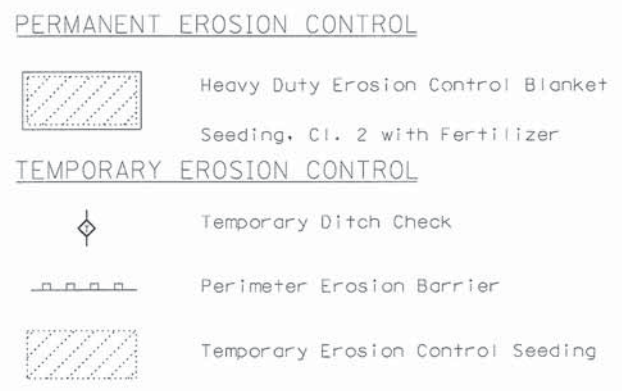
Roddis Robert Dean Jr. TTEE C/O
Robert D. Sr. & Sandra L. Roddis Etal
12265 N. County Highway 2
Ipava, IL 61441

DATE	
BY	
REVISION	
NO.	
DATE	
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REVISION	
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REVISION	
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DATE	
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REVISION	
NO.	
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REVISION	
NO.	
DATE	
BY	
REVISION	
NO.	

EROSION CONTROL SEQUENCE

1. Placement of perimeter erosion control barrier prior to commencement of any work. See Standard 280001.
2. Removal of the existing structure
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6. Placement of PPC deck beams
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8. Regrade for aggregate surface course placement and shoulders.
9. Install guardrail and bridge rail.
10. Removal and proper clean up of the temporary erosion controls.
11. Placement of the permanent erosion controls.



TOPSOIL FURNISH AND PLACE 4"

LOCATION	SQ. YD.
STA. 0+00.00 TO STA. 6+00.00 LT/RT	2370
STA. 6+00.00 TO STA. 11+51.75 LT/RT	2390
STA. 12+44.75 TO STA. 18+00.00 LT/RT	2210
STA. 18+00.00 TO STA. 24+00.00 LT/RT	2160
STR % = 52% TOTAL	9130

HEAVY DUTY EROSION CONTROL BLANKET

LOCATION	SQ. YD.
STA. 0+00.00 TO STA. 6+00.00 LT/RT	2370
STA. 6+00.00 TO STA. 11+51.75 LT/RT	2390
STA. 12+44.75 TO STA. 18+00.00 LT/RT	2210
STA. 18+00.00 TO STA. 24+00.00 LT/RT	2160
STR % = 52% TOTAL	9130

BILL OF MATERIAL - EROSION CONTROL

ITEM	UNIT	QUANTITY
Seeding, Class 2	ACRE	1.90
Nitrogen Fertilizer Nutrient	POUND	180
Phosphorus Fertilizer Nutrient	POUND	180
Potassium Fertilizer Nutrient	POUND	180
Temporary Erosion Control Seeding	POUND	195
Temporary Ditch Checks	FOOT	1840
Perimeter Erosion Barrier	FOOT	4700
Top Soil Furnish and Place 4"	SQ. YD.	9130
Heavy Duty Erosion Control Blanket	SQ. YD.	9130

NICOLE GRUBE, PE FULTON COUNTY ENGINEER DATE



USER NAME =	DESIGNED - KJH	REVISED -
	CHECKED - CSS	REVISED -
PLOT SCALE =	DRAWN - CSS	REVISED -
PLOT DATE	CHECKED - JRW	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

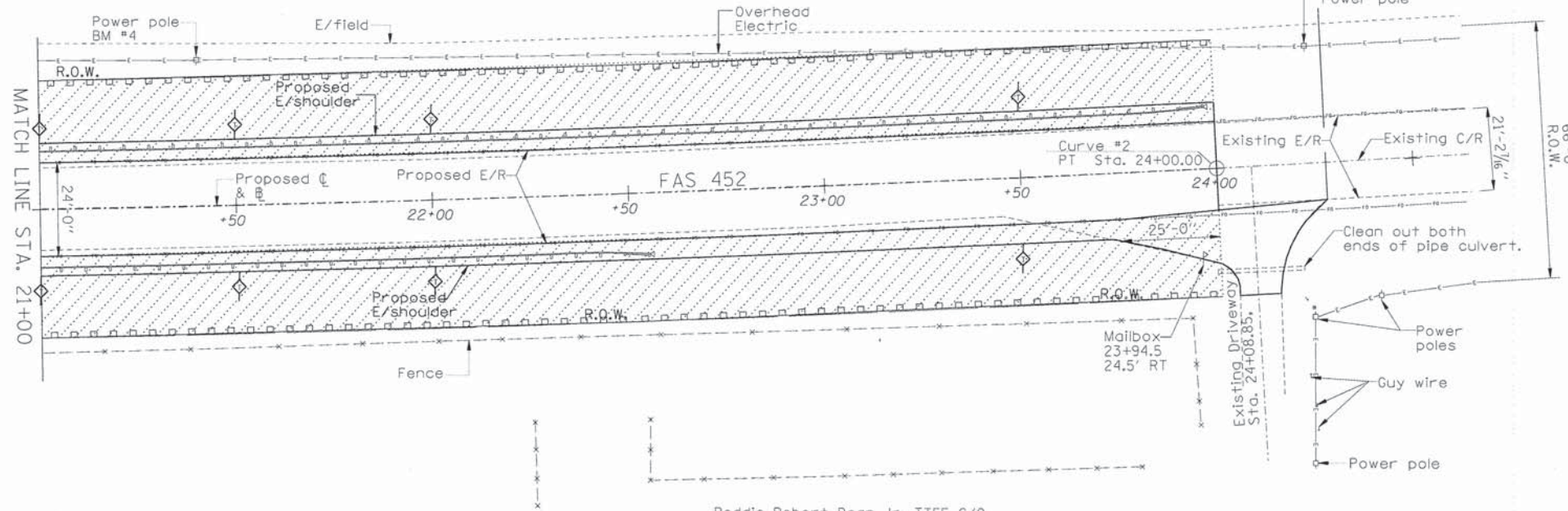
EROSION CONTROL STA. 15+00 to STA. 21+00
SCALE: 1" = 20' H SHEET 4 OF 5 SHEETS STA. 15+00 TO STA. 21+00

F.A.S. R.T.E. 452	SECTION 11-00130-08-BR	COUNTY FULTON	TOTAL SHEETS 33	SHEET NO. 15
CONTRACT NO. 89649			ILLINOIS FED. AID PROJECT	

SE 1/4, SEC. 31, T 5 N., R 2 E., 4th P.M.

Peterson, Loren R.
6950 Minkler Road
Yorkville, IL 60560

Improvement Ends
Sta. 24+25



Roddis Robert Dean Jr. TTEE C/O
Robert D. Sr. & Sandra L. Roddis Etal
12265 N. County Highway 2
Ipava, IL 61441

SW 1/4, SEC. 32, T 5 N., R 2 E., 4th P.M.

EROSION CONTROL SEQUENCE

1. Placement of perimeter erosion control barrier prior to commencement of any work. See Standard 280001.
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PERMANENT EROSION CONTROL

Heavy Duty Erosion Control Blanket
Seeding, Cl. 2 with Fertilizer

TEMPORARY EROSION CONTROL

- Temporary Ditch Check
- Perimeter Erosion Barrier
- Temporary Erosion Control Seeding

NICOLE GRUBE, PE FULTON COUNTY ENGINEER DATE



USER NAME =	DESIGNED - KJH	REVISED -
	CHECKED - CSS	REVISED -
PLOT SCALE =	DRAWN - CSS	REVISED -
PLOT DATE	CHECKED - JRW	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

EROSION CONTROL STA. 21+00 to STA. 24+00

SCALE: 1" = 20' H SHEET 5 OF 5 SHEETS STA. 21+00 TO STA. 24+00

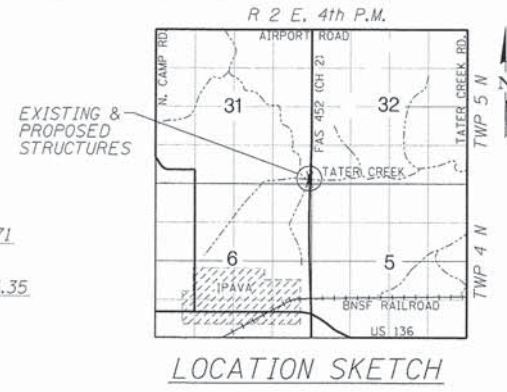
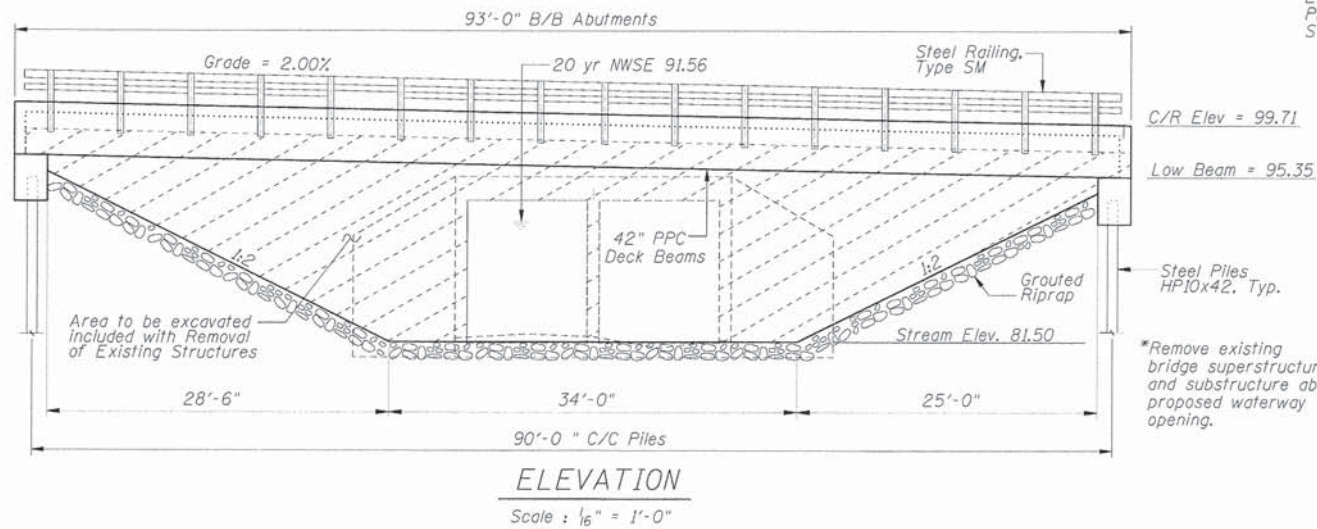
F.A.S. RTE. 452	SECTION 11-00130-08-BR	COUNTY FULTON	TOTAL SHEETS 33	SHEET NO. 16
CONTRACT NO. 89649			ILLINOIS FED. AID PROJECT	

DATE	
BY	
DESIGNED	
PLOTTED	
ALIGNED	
CHECKED	
DATE	
NO.	

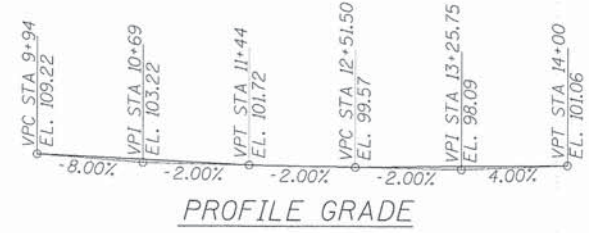
DATE	
BY	
DESIGNED	
PLOTTED	
GRADES CHECKED	
BY	
DATE	
NO.	

EXISTING STRUCTURE DESCRIPTION
 The existing structure is an unskewed, reinforced concrete, double box culvert. Each call is 10' wide and 12' tall with a length of 40'-0". Wingwalls are 12' long and angled at 45°. S.N. 029-5005.

BM #1 - R.R. Spike in Power Pole at STA 1+73.5, 32.5' LT., Elev. 163.07
 BM #2 - R.R. Spike in post at STA 6+89.5, 49' LT., Elev. 140.27
 BM #3 - R.R. Spike in post at STA 12+99, 39' LT., Elev. 96.17
 BM #4 - R.R. Spike in Power Pole at STA 21+40.5, 37.5' LT., Elev. 156.10



Structure No. 029-3505
 Sec. 11-00130-08-BR
 Built 20____
 FAS 452
 Fulton County
 Loading HL-93
NAME PLATE
 See Standard 515001



DESIGN SPECIFICATIONS

AASHTO (2012) and applicable Interims

DESIGN LOADING

HL-93
 50 P.S.F Future Wearing Surface

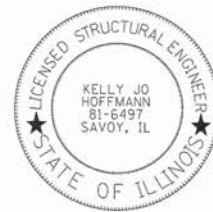
DESIGN STRESSES

$f'_c = 3,500$ psi (Cast in Place Concrete Substructure)
 $f'_c = 5,000$ psi (Cast in Place Concrete Wearing Surface)
 $f'_c = 5,000$ psi (P.P.C. Units)
 $f'_{ci} = 4,000$ psi (P.P.C. Units)
 $f_y = 60,000$ psi (Reinforcement)
 $f'_s = 270,000$ psi (1/2" ϕ Strands)
 $f'_{si} = 201,960$ psi (1/2" ϕ Strands)

WATERWAY DATA

Drainage Area 7.63 Sq. Mi.
 Existing Opening (20 Yr.) 196.1 Sq. Ft.
 Required Opening (20 Yr.) 337.4 Sq. Ft.
 Proposed Opening (20 Yr.) 542.3 Sq. Ft.
 Design Discharge (20 Yr.) 1990 C.F.S.
 Computed Discharge (100 Yr.) 3090 C.F.S.
 20 Yr. Head 0.02 Ft.
 100 Yr. Head 0.77 Ft.

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 LRFD Bridge Design Specifications."



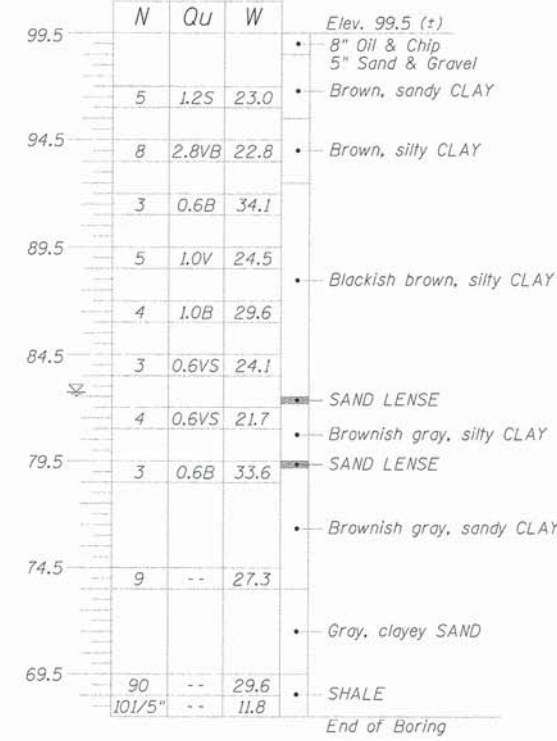
Kelly Jo Hoffmann
 KELLY JO HOFFMANN
 Illinois Licensed Structural Engineer Number 6497
 License Expires 11/30/16

BORING DATA

N - Standard Penetration Test - Blows per foot to drive 2" O.D. split spoon sampler 12" with 140 lb. hammer falling 30".
 Qu - Unconfined Compressive Strength - Tons/Sq. Ft.
 P - Penetrometer Field Test
 B - Bulging Failure
 S - Split Failure
 V - Shear Failure
 W - Water Content - Percentage of oven dry weight - %

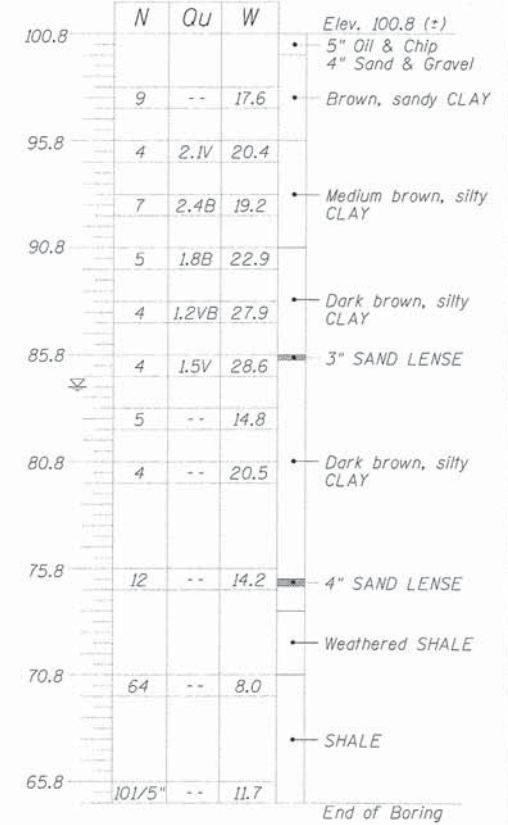
BORING B-1

Location: STA 12+39, 10.5' LT.
 Elev. 99.5 (+)
 Water Level: Elev. 82.7 (+)



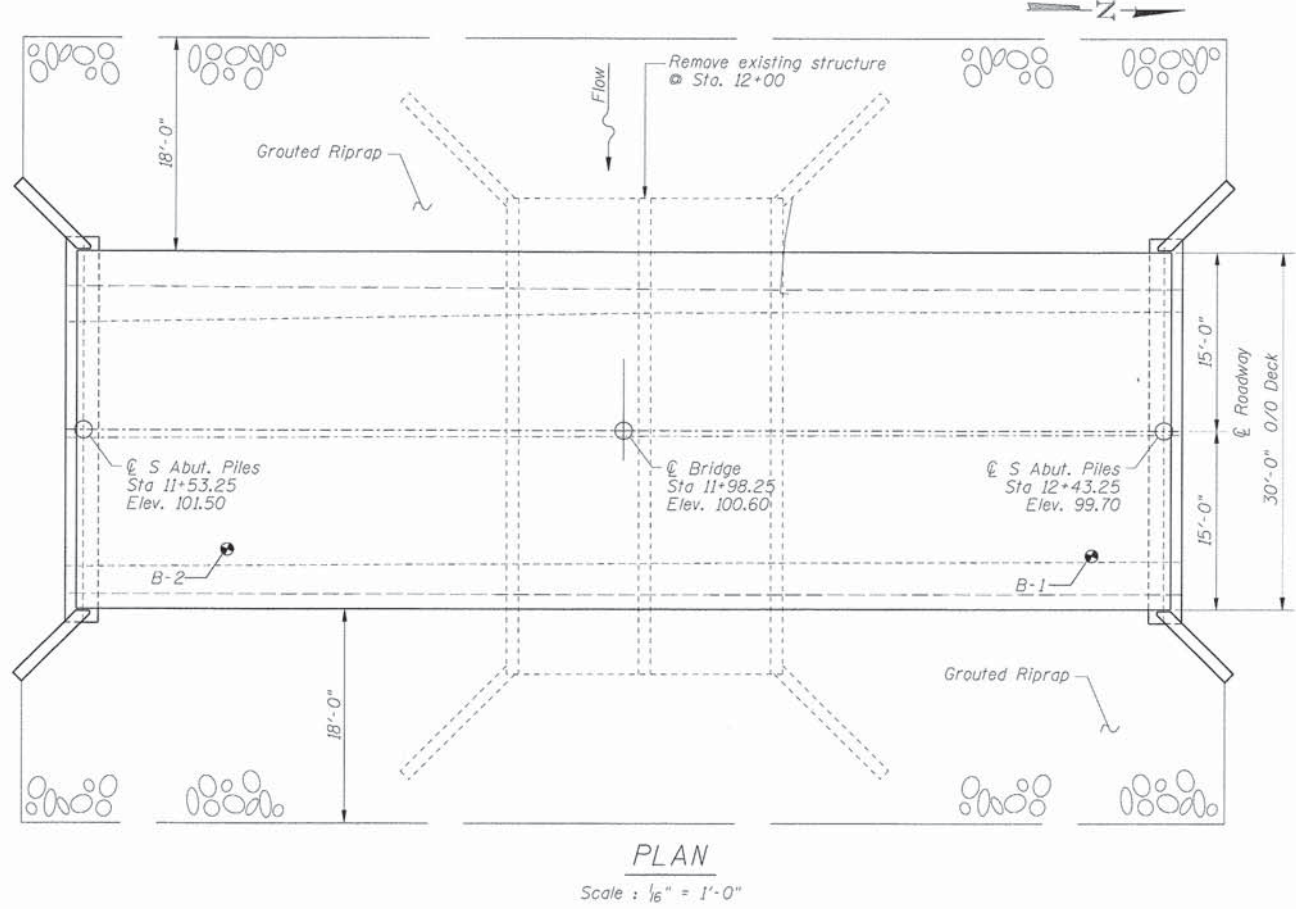
BORING B-2

Location: STA 11+67, 10.0' RT.
 Elev. 100.8 (+)
 Water Level: Elev. 84.3 (+)



TOTAL BILL OF MATERIAL

ITEM	UNIT	SUPER	SUB	TOTAL
Removal of Existing Structures	Each	1	-	1
Structure Excavation	Cu. Yd.	-	275	275
Concrete Wearing Surface, 6"	Sq. Yd.	310	-	310
Concrete Structures	Cu. Yd.	-	33.6	33.6
Bridge Deck Grooving	Sq. Yd.	310	-	310
Protective Coat	Sq. Yd.	393	-	393
Precast Prestressed Concrete Deck Beams (42" Depth)	Sq. Ft.	2735	-	2735
Reinforcement Bars, Epoxy Coated	Pound	7360	4410	11770
Steel Railing, Type SM	Foot	183	-	183
Furnishing Steel Piles HPI0x42	Foot	-	560	560
Driving Piles	Foot	-	560	560
Test Pile Steel HPI0x42	Each	-	2	2
Pile Shaes	Each	-	18	18
Name Plates	Each	-	1	1
Controlled Low-Strength Material	Cu. Yd.	-	90	90
Grouted Riprap	Sq. Yd.	-	684	684
Concrete Cut-Off Wall	Cu. Yd.	-	7.2	7.2



GENERAL NOTES

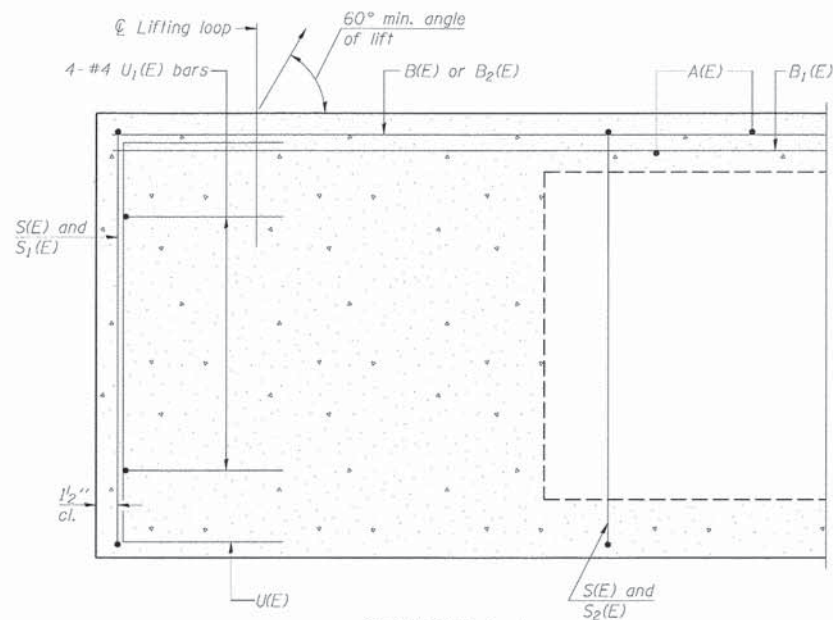
- The Contractor shall drive test piles to 110% of the Nominal Required Bearing specified in production locations at the substructures specified or approved by the Engineer before ordering the remainder of the piles.
- Boring Data is shown only as a guide to bidders in estimating soil conditions which may be encountered during construction.
- Class SI or MS Concrete shall be used in the abutments.
- Reinforcement bars shall conform to the requirements of ASTM A706, Grade 60 (IL Modified). See Special Provisions.
- Layout of slope protection system may be varied in the field to suit ground conditions as directed by the Engineer.

DESIGNED	K.J.H.
CHECKED	C.S.S.
DRAWN	C.S.S.
CHECKED	K.J.H.



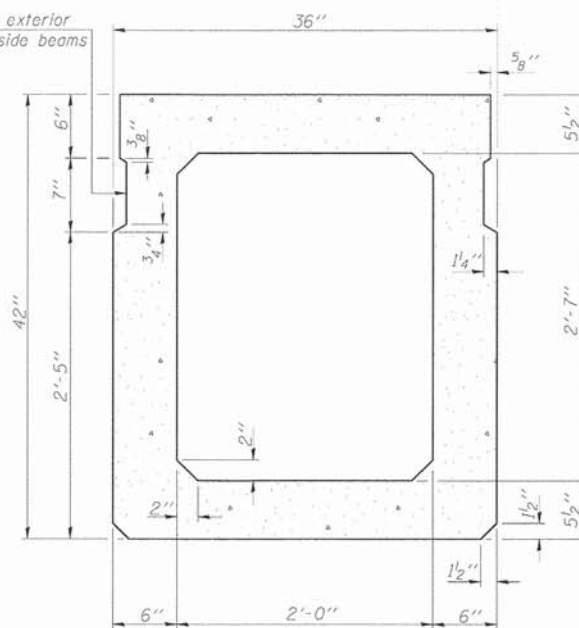
ENGINEERING RESOURCE ASSOCIATES, INC.
 CONSULTING ENGINEERS, SCIENTISTS & SURVEYORS
 3002 CROSSING COURT
 CHAMPAIGN, IL 61822
 PHONE (217) 351-6268
 FAX (217) 355-1902

BRIDGE SHEET 1 OF 9 SHEETS	F.A.S. RTE. 452	SECTION 11-00130-08-BR	COUNTY FULTON	TOTAL SHEETS 33	SHEET NO. 17
				CONTRACT NO. 89649	
ILLINOIS FED. AID PROJECT					

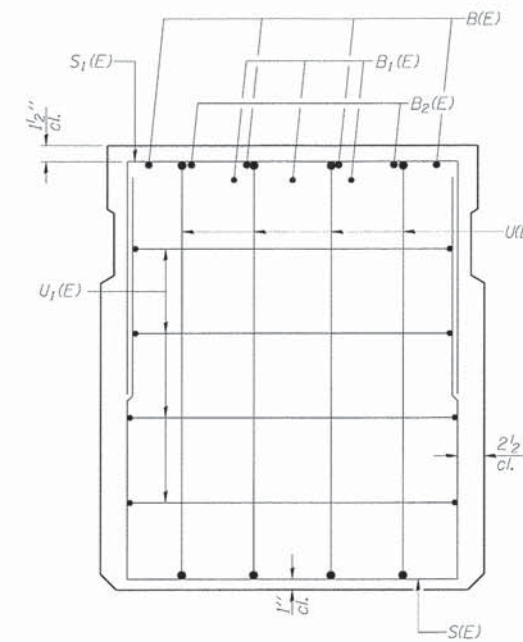


SECTION A-A

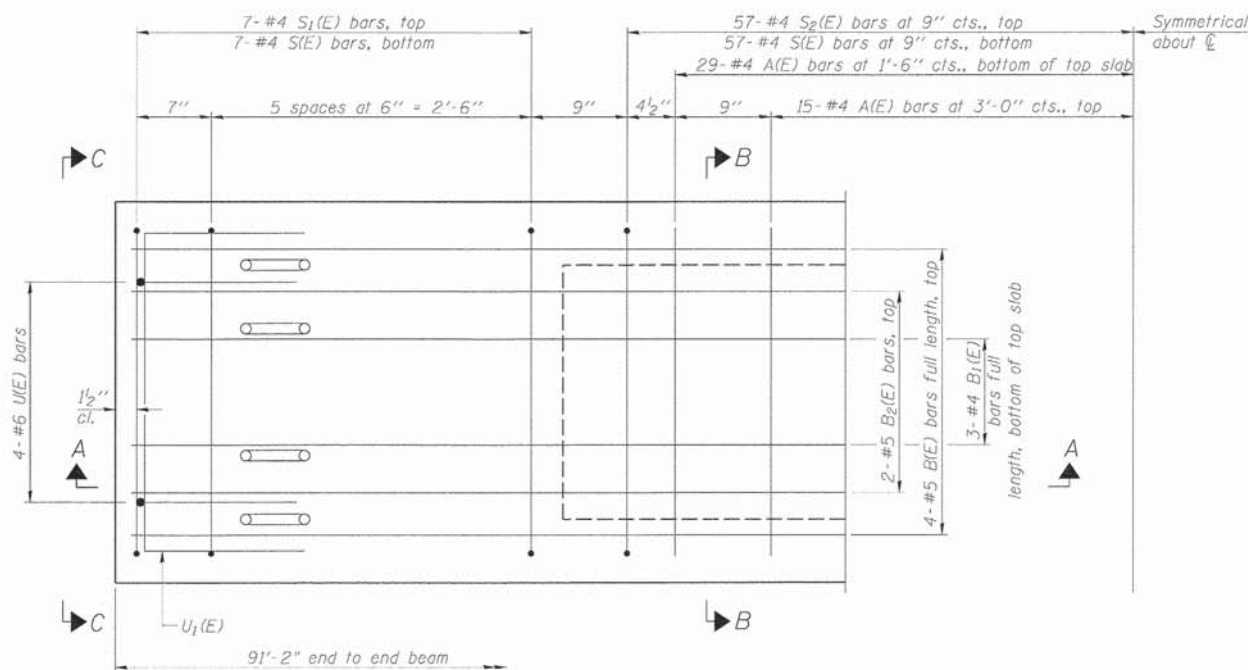
Omit key on exterior face of outside beams



SECTION B-B
(Showing dimensions)

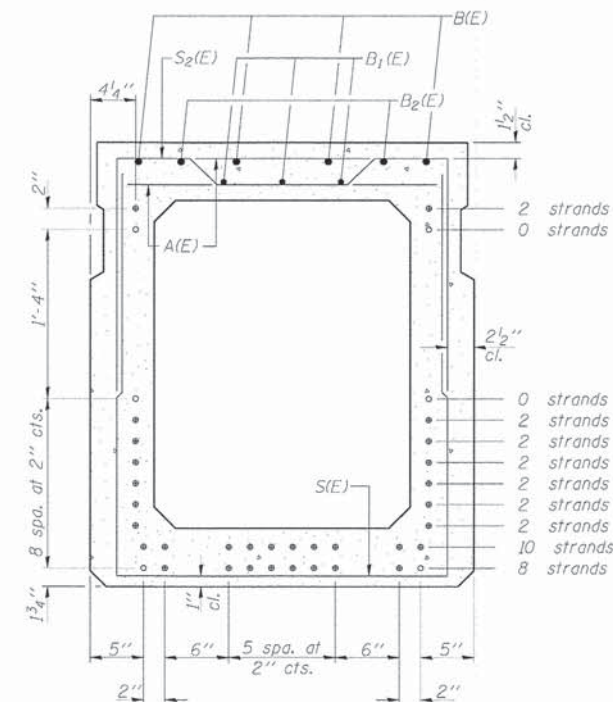


VIEW C-C



PLAN VIEW

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.



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.

BAR LIST
ONE BEAM ONLY
(For information only)

Bar	No.	Size	Length	Shape
A(E)	88	#4	2'-7"	—
B1(E)	24	#5	17'-4"	—
B2(E)	18	#4	17'-4"	—
S(E)	24	#5	10'-0"	—
S1(E)	128	#4	8'-11"	—
S2(E)	14	#4	6'-3"	U
U(E)	8	#6	5'-9"	U
U1(E)	8	#4	5'-0"	U

Note: See sheet 2 of 2 for additional details and Bill of Material.

MINIMUM BAR LAP

#4 bar = 2'-0"
#5 bar = 2'-6"

PD-4236-0 7-1-10

DESIGNED	K.J.H.
CHECKED	C.S.S.
DRAWN	C.S.S.
CHECKED	K.J.H.

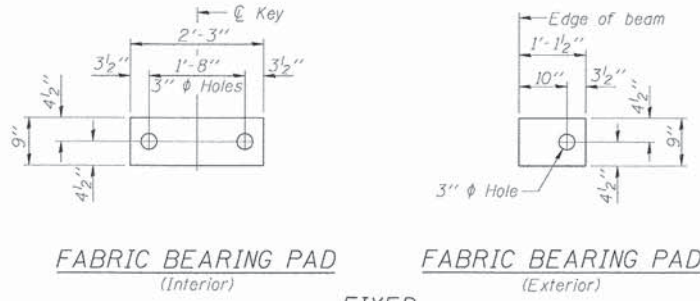


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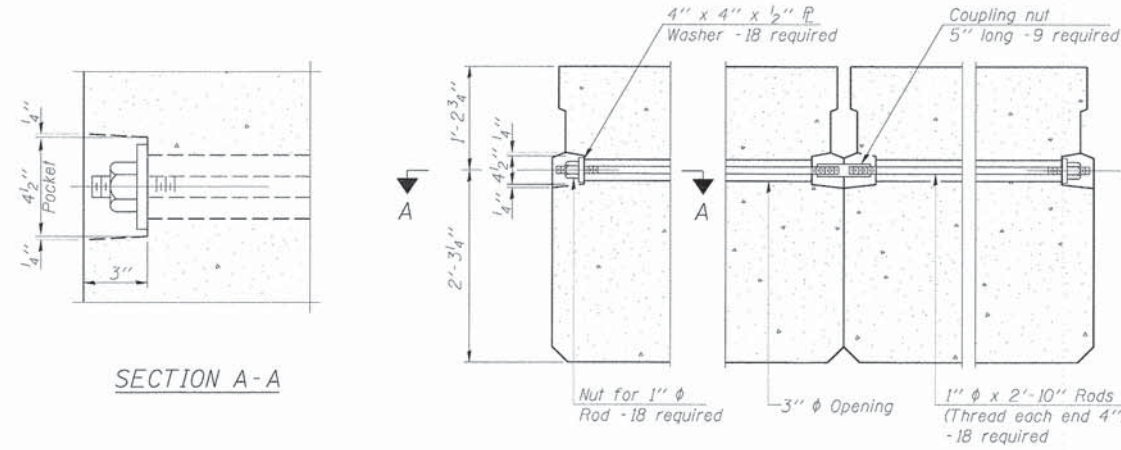
SUPERSTRUCTURE DETAILS (SHEET 1 OF 2)

FAS 452 (CH2) OVER TATER CREEK
SEC 11-00130-08-BR
FULTON COUNTY

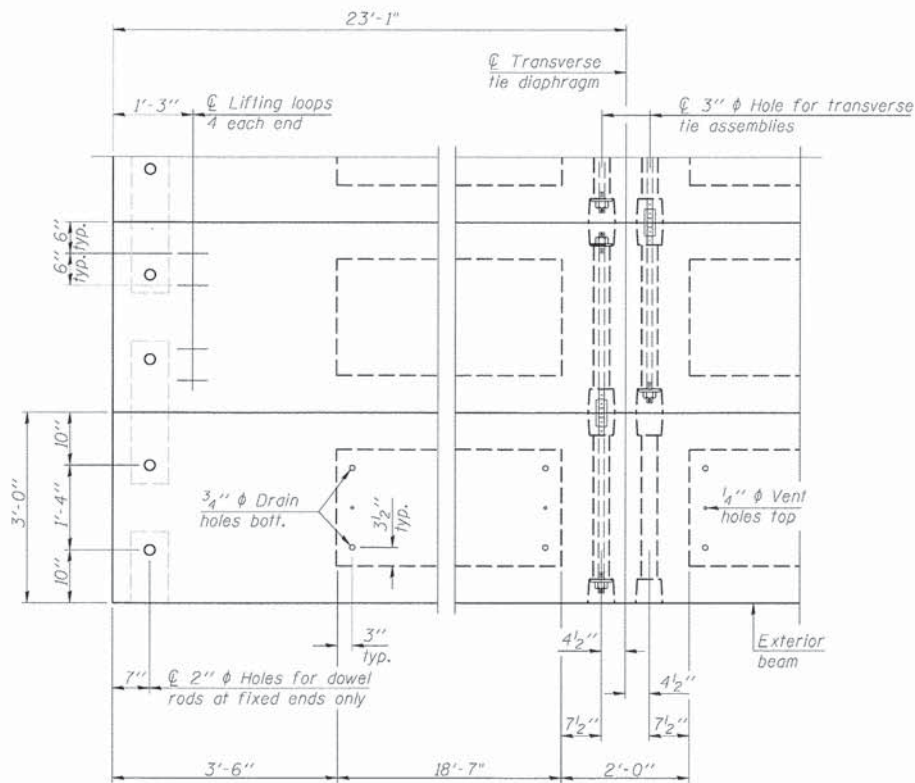
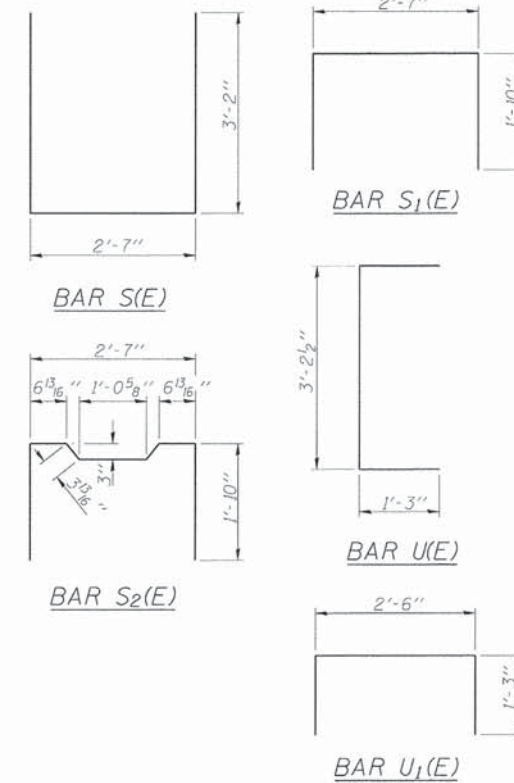
BRIDGE SHEET 2	F.A.S. RTE. 452	SECTION 11-00130-08-BR	COUNTY FULTON	TOTAL SHEETS 33	SHEET NO. 18
OF 9 SHEETS				CONTRACT NO. 89649	
ILLINOIS FED. AID PROJECT					



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

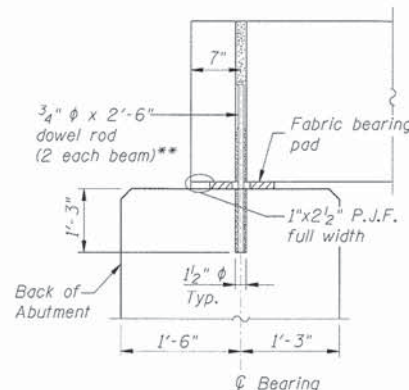


TYPICAL TRANSVERSE TIE ASSEMBLY
 Quantity Per Assembly

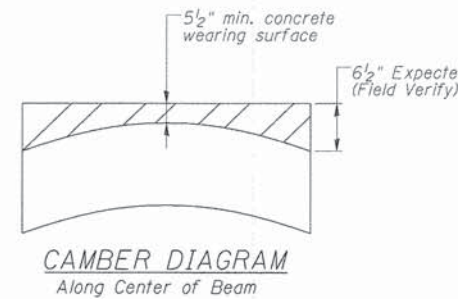


PLAN VIEW

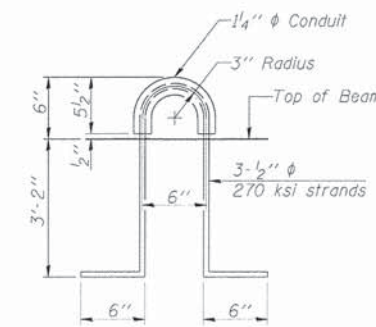
Note: Connect beams in pairs with the transverse tie configuration shown.



SECTION AT ABUTMENT
 **Dowel rods are to be grouted after beams are in place and prior to grouting shear keys



CAMBER DIAGRAM
 Along Center of Beam



LIFTING LOOP DETAIL

BILL OF MATERIAL

Precast Prestressed Conc. Deck Bms. (42" depth)	Sq. Ft.	2735
---	---------	------

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" 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. Reinforcement bars shall conform to ASTM A 706, Grade 60. (See Special Provisions). 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" lifting pin shall be used to engage the lifting loops during handling. Corrosion inhibitor, per Article 1020.05(b)(12) and 1021.06 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.

PD-4236-0D 7-1-10

DESIGNED	K.J.H.
CHECKED	C.S.S.
DRAWN	C.S.S.
CHECKED	K.J.H.

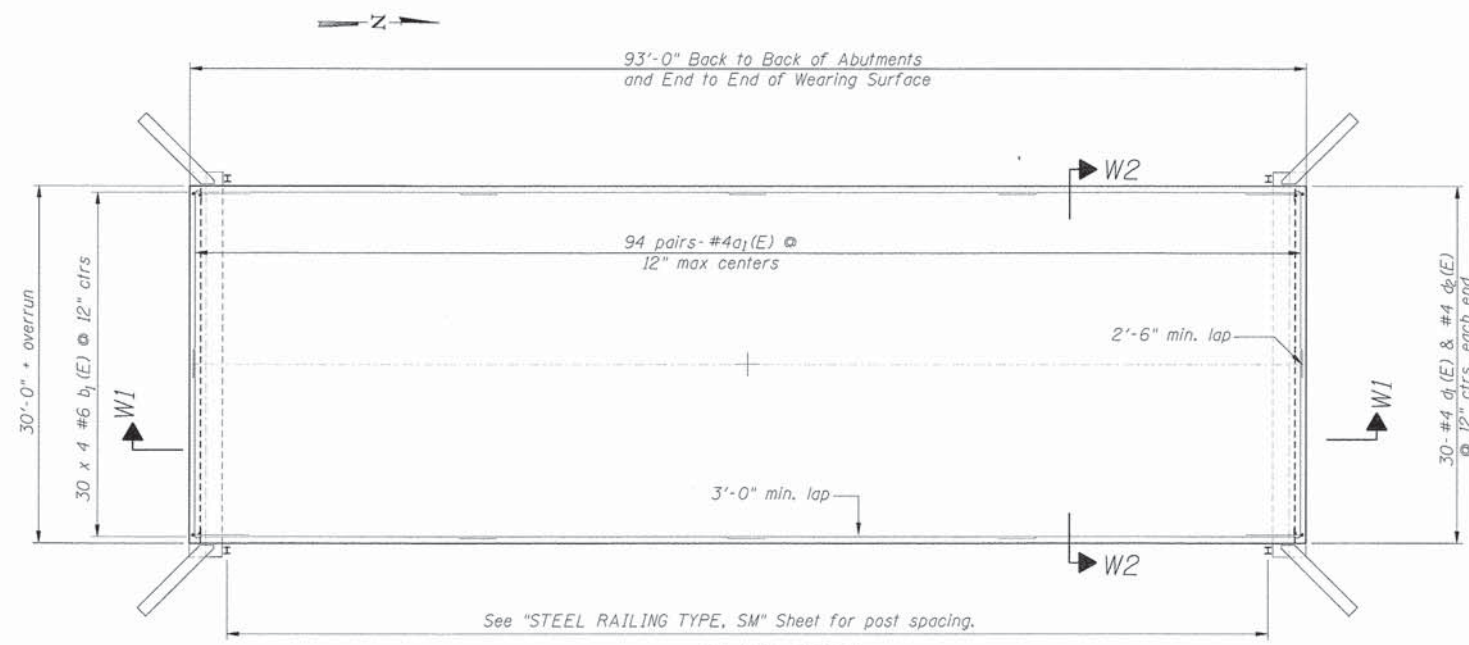


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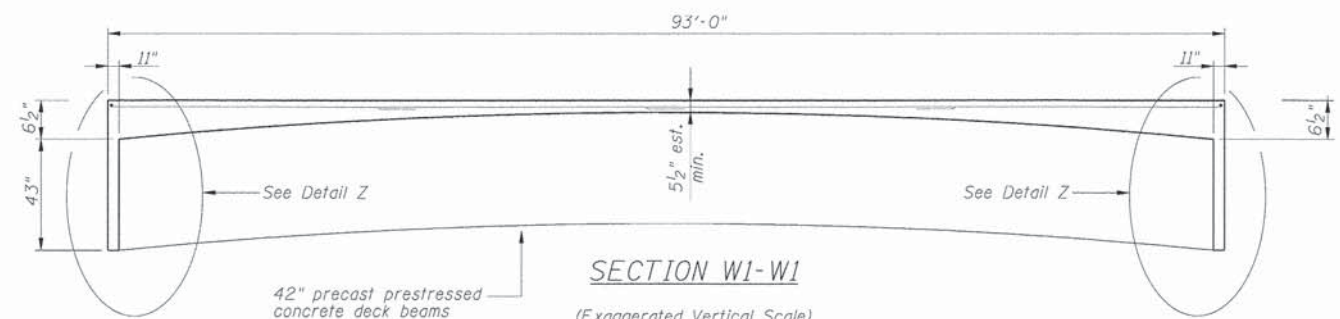
SUPERSTRUCTURE DETAILS (SHEET 2 OF 2)

FAS 452 (CH2) OVER TATER CREEK
 SEC 11-00130-08-BR
 FULTON COUNTY

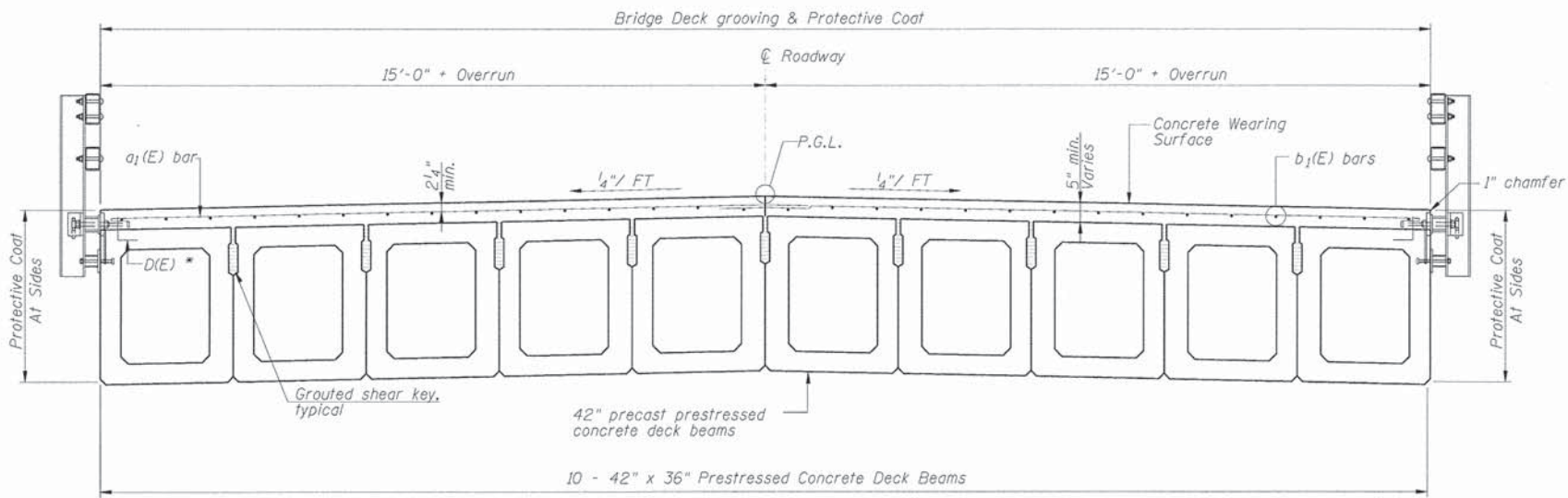
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OF 9 SHEETS				CONTRACT NO. 89649	
ILLINOIS FED. AID PROJECT					



PLAN VIEW

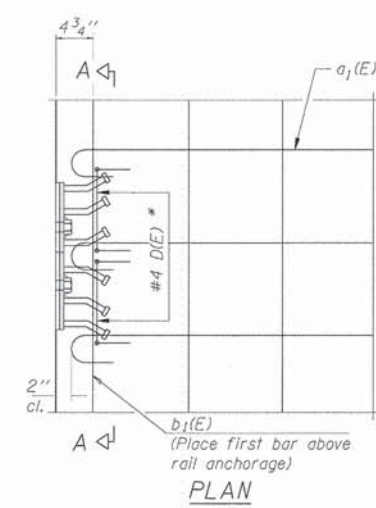


SECTION W1-W1
(Exaggerated Vertical Scale)



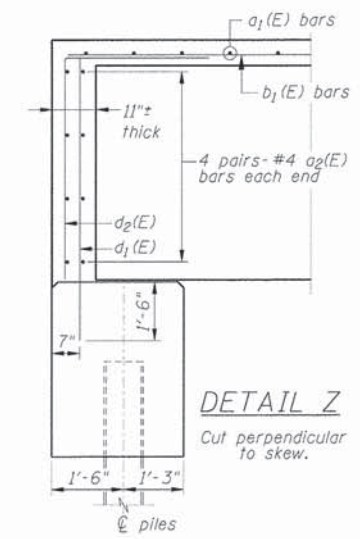
SECTION W2-W2

Section through beams and wearing surface.



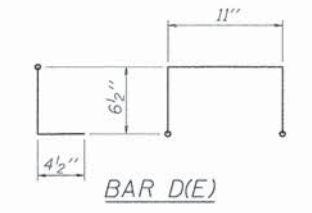
PLAN

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



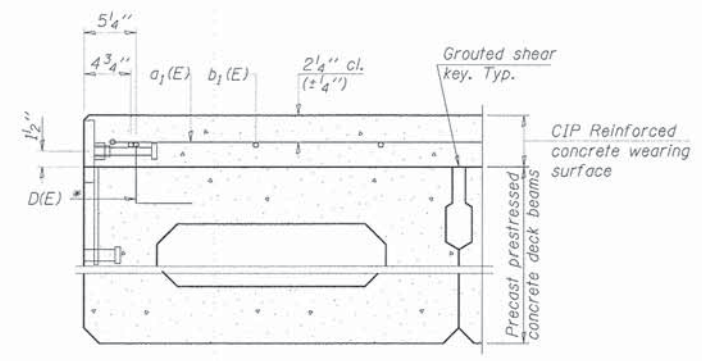
DETAIL Z

Cut perpendicular to skew.

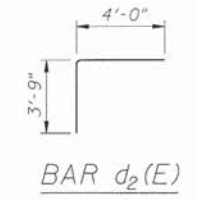


BAR D(E)

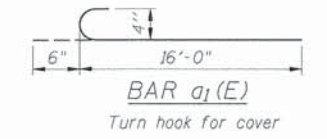
* Place 2-#4 D(E) bars in beam at each post location as shown. D(E) bar included in cost of beam, but not broken out in the PPC Deck Beam(s) Bill of Material(s).



SECTION THRU FASCIA BEAM



BAR d2(E)

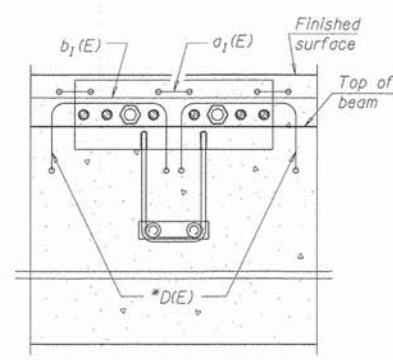


BAR a1(E)

Turn hook for cover

BILL OF MATERIAL				
Bar	No.	Size	Length	Shape
a1(E)	188	# 4	16'-6"	
a2(E)	16	# 4	16'-3"	
b1(E)	120	# 6	25'-6"	
d1(E)	60	# 4	5'-2"	
d2(E)	60	# 4	7'-9"	
Concrete Wearing Surface, 6"			Sq. Yds.	310
Bridge Deck Grooving			Sq. Yds.	310
Protective Coat			Sq. Yds.	393
Reinforcement Bars Epoxy Coated			Lbs.	7360

Notes : Reinforcement bars designated (E) shall be epoxy coated.
Bars indicated thus "30 x 4 -#6 b1 etc..." indicates 30 lines of bars with 4 lengths per line.
Concrete shall be Class BS.
Prior to the placement of the concrete, the top surface of the beams shall be clean and free of foreign material. See GBSP 34.



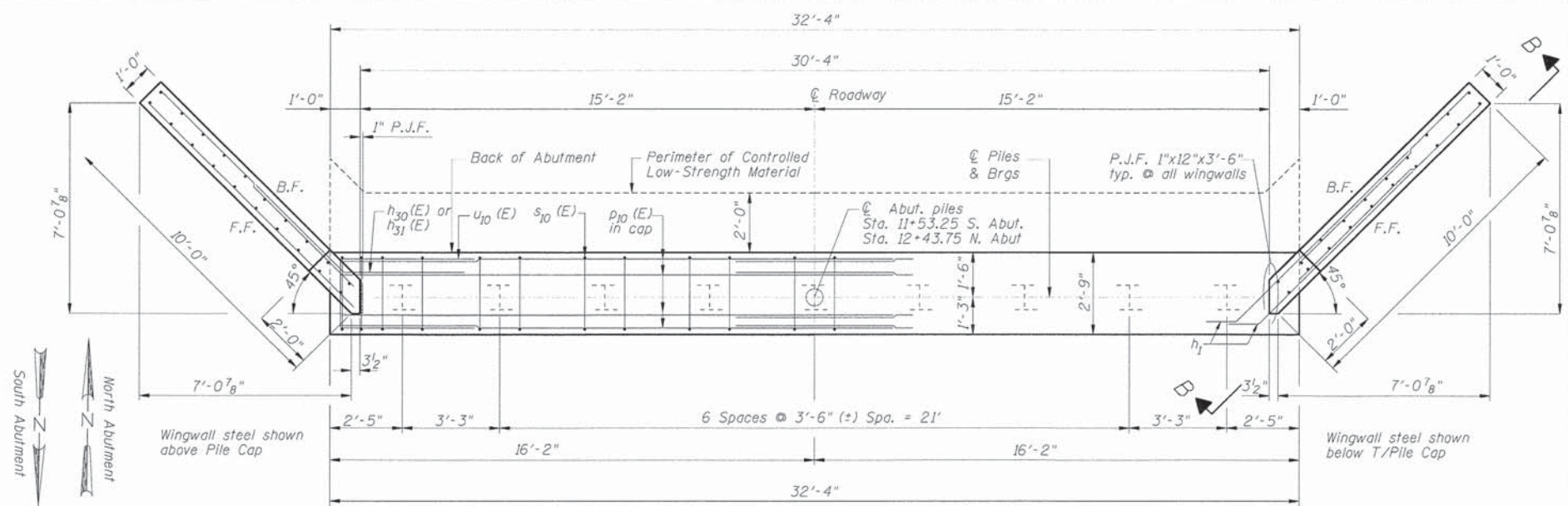
SECTION A-A

DESIGNED	-	K.J.H.
CHECKED	-	C.S.S.
DRAWN	-	C.S.S.
CHECKED	-	K.J.H.

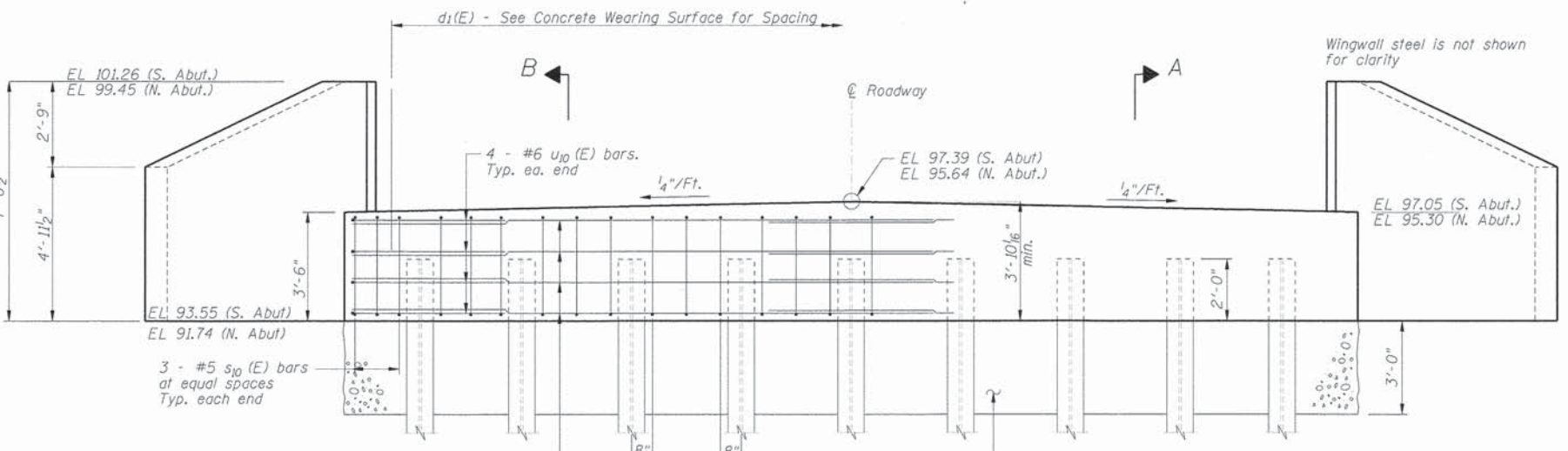
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CHAMPAIGN, IL 61822
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FAX (217) 355-1902

WEARING SURFACE DETAILS
FAS 452 (CH2) OVER TATER CREEK
SEC 11-00130-08-BR
FULTON COUNTY

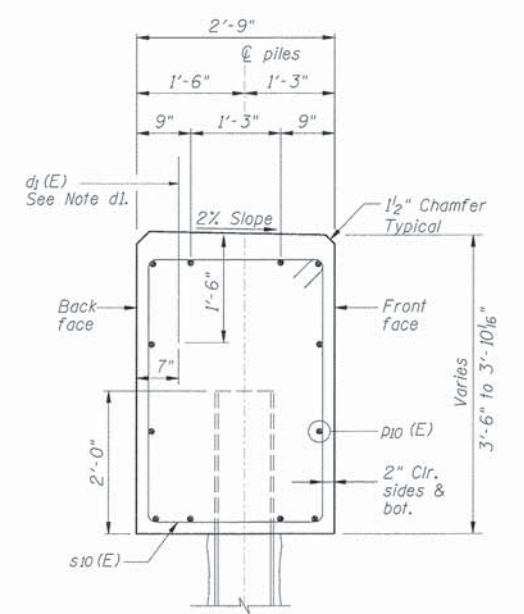
BRIDGE SHEET 4	F.A.S. RTE. 452	SECTION 11-00130-08-BR	COUNTY FULTON	TOTAL SHEETS 33	SHEET NO. 20
OF 9 SHEETS				CONTRACT NO. 89649	
ILLINOIS FED. AID PROJECT					



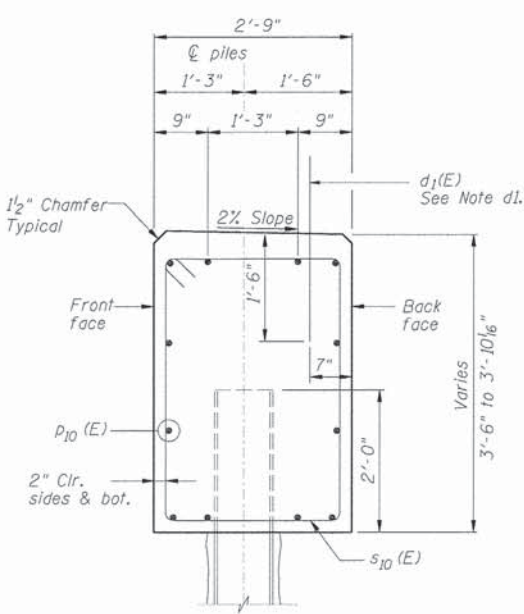
PLAN
Symmetrical about \bar{C}



ELEVATION
Symmetrical about \bar{C}



SECTION A - South Abut.
(Perpendicular to \bar{C} of Abutment)

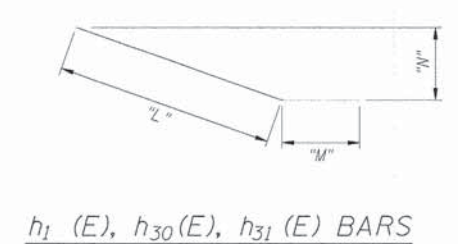


SECTION B - North Abut.
(Perpendicular to \bar{C} of Abutment)

Note d1: Bar $d_1(E)$ is included in the Concrete Wearing Surface. Full height of bar is not shown.

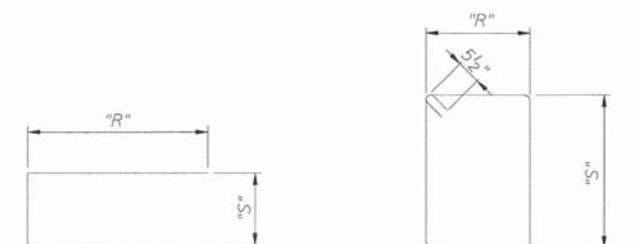
BILL OF MATERIAL - 2 ABUTS.

Bar	No.	Size	Length	Shape
$h_1(E)$	48	# 6	9'-1"	—
$h_{10}(E)$	24	# 5	8'-6"	—
$h_{11}(E)$	24	# 5	8'-0"	—
$h_{12}(E)$	8	# 5	9'-8"	—
$h_{13}(E)$	8	# 5	9'-2"	—
$h_{14}(E)$	4	# 5	8'-4"	—
$h_{15}(E)$	4	# 5	7'-10"	—
$h_{16}(E)$	4	# 5	6'-3"	—
$h_{17}(E)$	4	# 5	5'-9"	—
$h_{18}(E)$	4	# 5	4'-0"	—
$h_{19}(E)$	4	# 5	3'-6"	—
$h_{20}(E)$	4	# 5	10'-1"	—
$h_{21}(E)$	4	# 5	9'-5"	—
$h_{30}(E)$	16	# 6	8'-0"	—
$h_{31}(E)$	4	# 6	7'-2"	—
$p_{10}(E)$	48	# 6	18'-6"	—
$s_{10}(E)$	60	# 5	12'-1"	□
$u_{10}(E)$	16	# 6	12'-3"	□
$v_1(E)$	16	# 4	7'-4"	—
$v_2(E)$	8	# 4	7'-1"	—
$v_3(E)$	8	# 4	6'-8"	—
$v_4(E)$	8	# 4	6'-4"	—
$v_5(E)$	8	# 4	6'-0"	—
$v_6(E)$	8	# 4	5'-8"	—
$v_7(E)$	8	# 4	5'-4"	—
$v_8(E)$	8	# 4	5'-0"	—
$v_9(E)$	8	# 4	4'-8"	—
Concrete Structures		Cu. Yds.	33.6	
Reinforcement Bars, Epoxy Coated		Lbs.	4410	
Test Pile, Steel HPI0x42		Each	2	
Furnish Steel Piles HPI0x42		Foot	560	
Driving Piles		Foot	560	
Pile Shoes		Each	18	
Name Plate		Each	1	
Concrete Cut-off Wall		Cu. Yds.	7.2	
Structure Excavation		Cu. Yds.	275	
Controlled Low-Strength Material		Cu. Yds.	90	



$h_1(E), h_{30}(E), h_{31}(E)$ BARS

Bar	"L"	"M"	"N"
$h_1(E)$	8'-1"	1'-0"	0'-8 1/2"
$h_{30}(E)$	4'-0"	4'-0"	2'-10"
$h_{31}(E)$	4'-0"	3'-2"	2'-10"
$h_{20}(E)$	8'-3"	1'-10"	2'-8 1/2"
$h_{21}(E)$	8'-3"	1'-4"	2'-8 1/2"



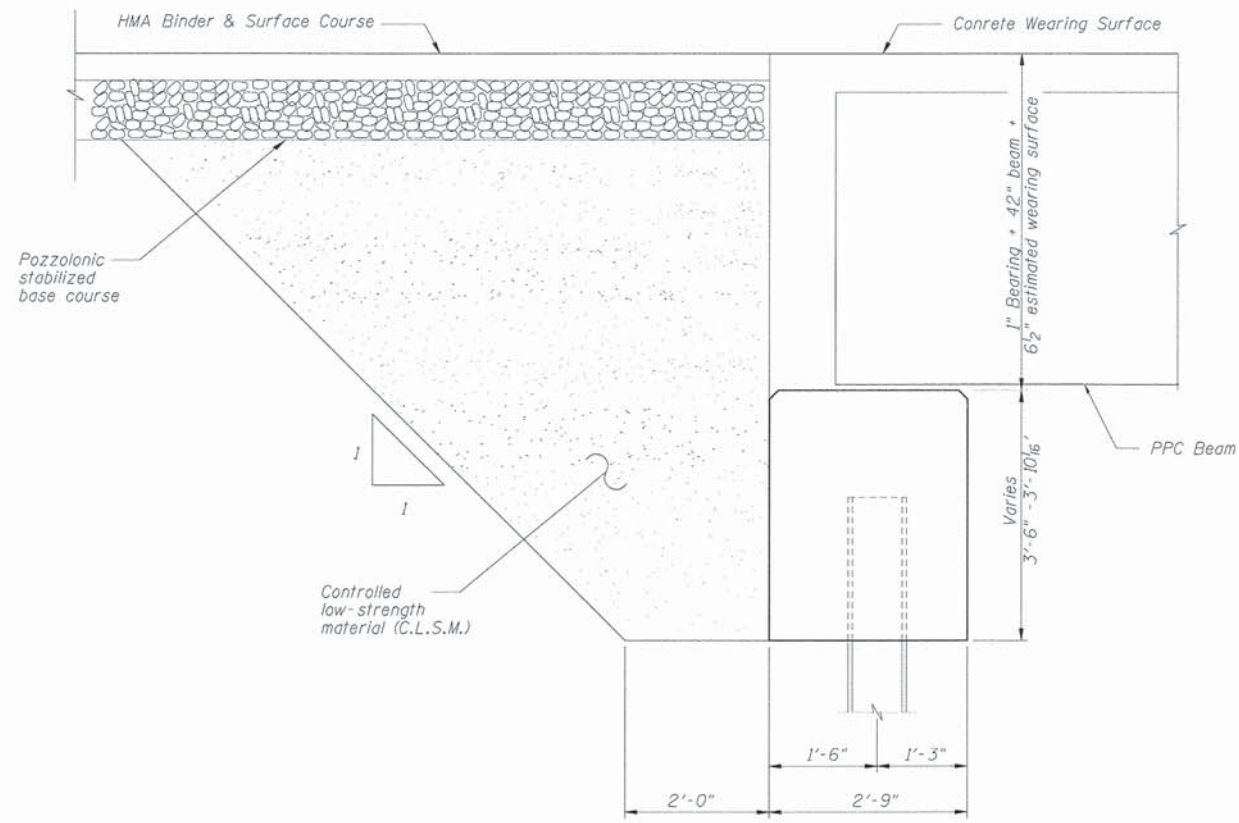
Bar	"R"	"S"
u_{10}	5'-0"	2'-3"
$s_{10}(E)$	2'-5"	3'-2"

DESIGNED	K.J.H.
CHECKED	C.S.S.
DRAWN	C.S.S.
CHECKED	K.J.H.

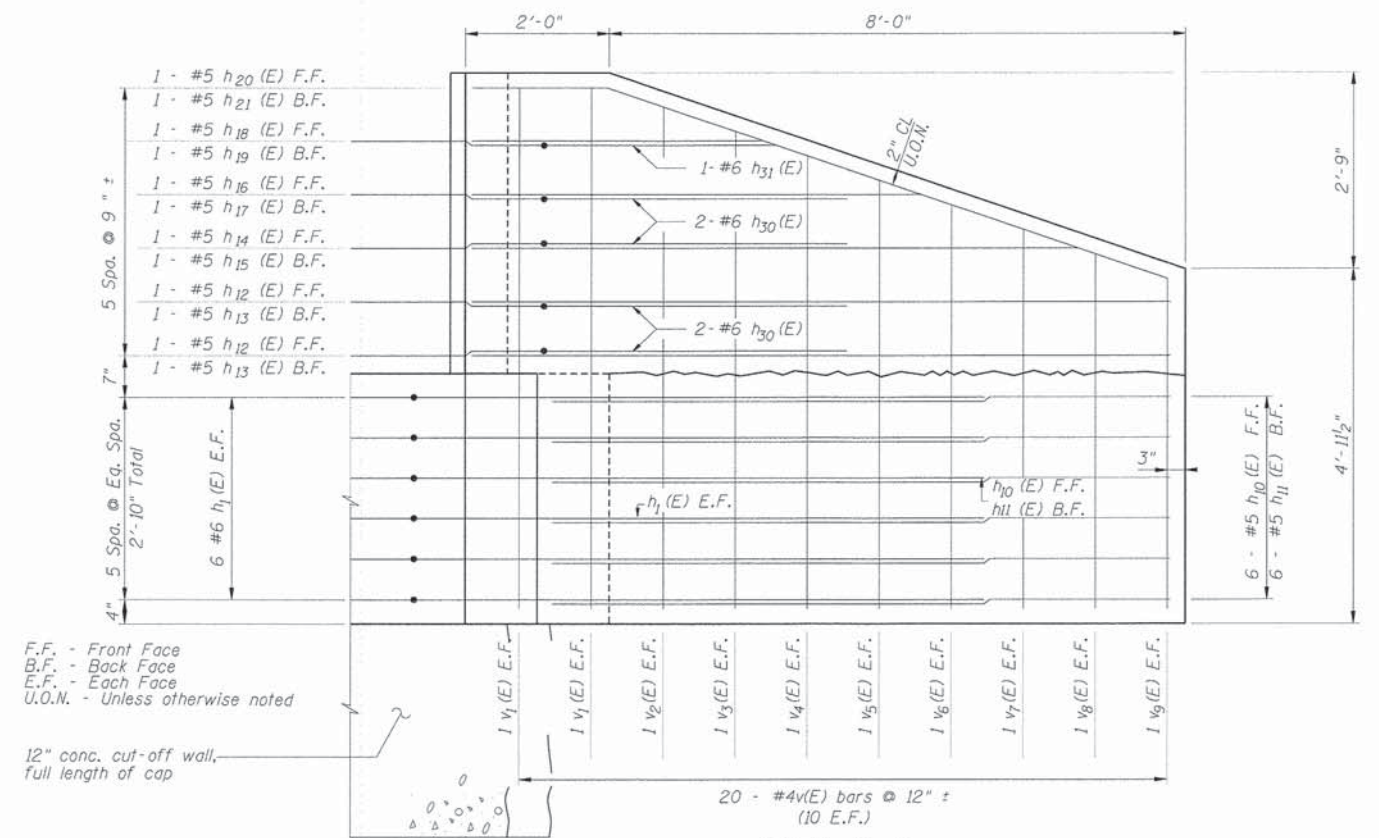
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CHAMPAIGN, IL 61822
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ABUTMENT DETAILS (SHEET 1 OF 2)
FAS 452 (CH2) OVER TATER CREEK
SEC 11-00130-08-BR
FULTON COUNTY

BRIDGE SHEET 5 OF 9 SHEETS	F.A.S. RTE. 452	SECTION 11-00130-08-BR	COUNTY FULTON	TOTAL SHEETS 33	SHEET NO. 21
			CONTRACT NO. 89649		
ILLINOIS FED. AID PROJECT					



**DETAIL
BEHIND ABUTMENT**



F.F. - Front Face
B.F. - Back Face
E.F. - Each Face
U.O.N. - Unless otherwise noted

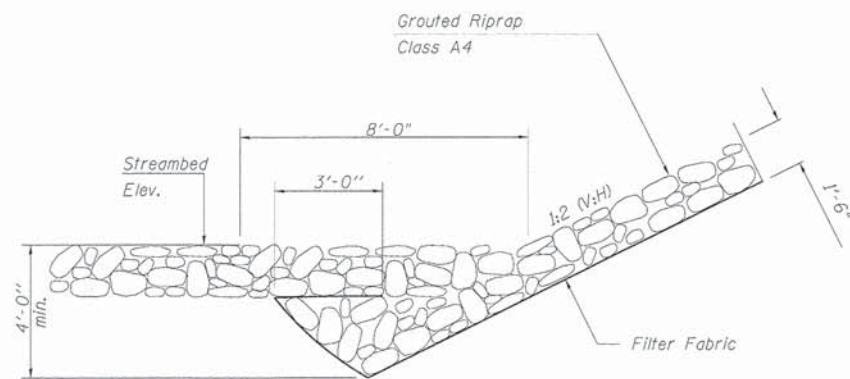
12" conc. cut-off wall,
Full length of cap

ELEV. B-B
Tops of wingwalls shall be poured
after beams are in place.
Concrete Wearing Surface wall
steel is not shown for clarity

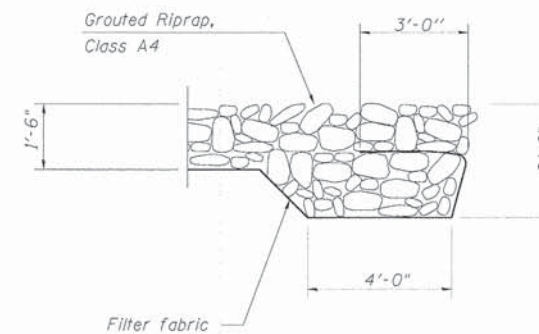
PILE DATA

Type: Steel HP 10 x 42
Nominal Required Bearing: 335 kips
Factored Resistance Available: 184.5 kips
Estimated Length: 35 ft.
No. Required: 8 @ North Abutment
8 @ South Abutment
Test Piles: 1 @ North Abutment
1 @ South Abutment
Total = 560 FT Pile
18 Pile Shoes

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



**RIPRAP SECTION
AT TOE OF SLOPE**



**RIPRAP SECTION PERPENDICULAR TO C ROAD
AT EDGE OF RIGHT OF WAY**

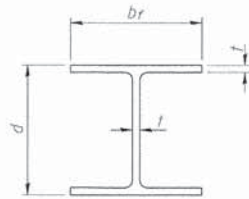
ABUTMENT DETAILS (SHEET 2 OF 2)
FAS 452 (CH2) OVER TATER CREEK
SEC 11-00130-08-BR
FULTON COUNTY

DESIGNED	K.J.H.
CHECKED	C.S.S.
DRAWN	C.S.S.
CHECKED	K.J.H.



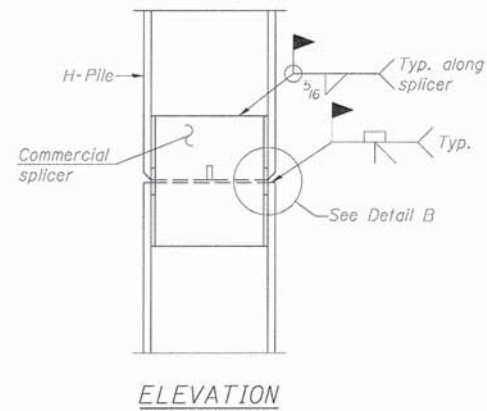
**ENGINEERING
RESOURCE
ASSOCIATES, INC.**
CONSULTING ENGINEERS, SCIENTISTS
& SURVEYORS
3002 CROSSING COURT
CHAMPAIGN, IL 61822
PHONE (217) 351-6268
FAX (217) 355-1902

BRIDGE SHEET 6	F.A.S. RTE. 452	SECTION 11-00130-08-BR	COUNTY FULTON	TOTAL SHEETS 33	SHEET NO. 22
OF 9 SHEETS	CONTRACT NO. 89649			ILLINOIS FED. AID PROJECT	

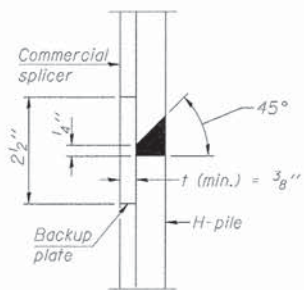


STEEL PILE TABLE

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

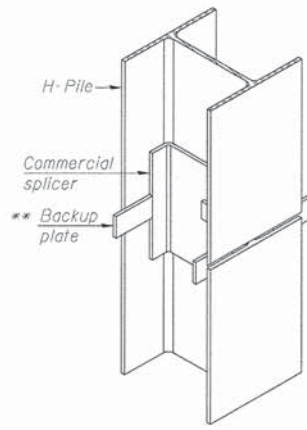


ELEVATION

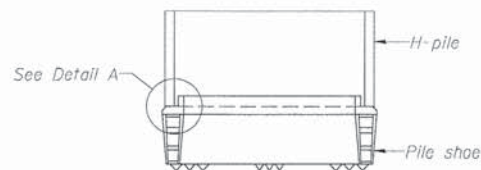


DETAIL "B"

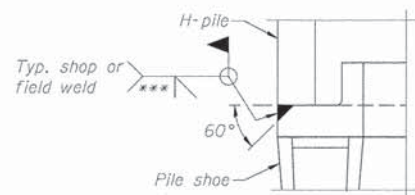
WELDED COMMERCIAL SPLICE



ISOMETRIC VIEW

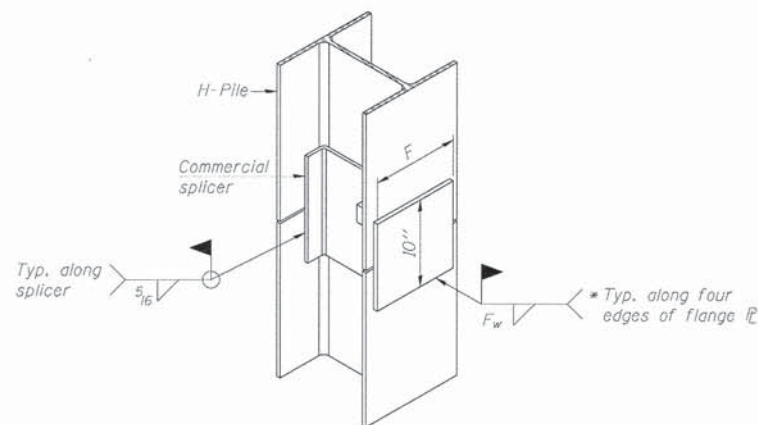


ELEVATION



DETAIL A

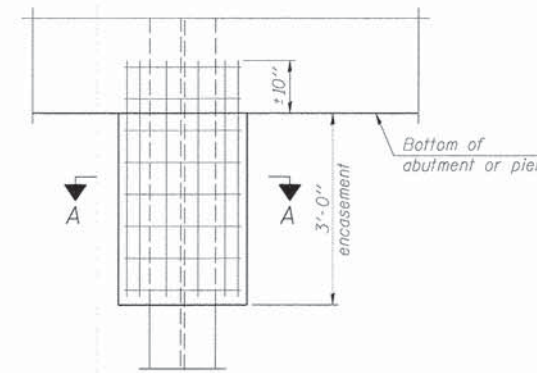
H-PILE SHOE ATTACHMENT



ISOMETRIC VIEW

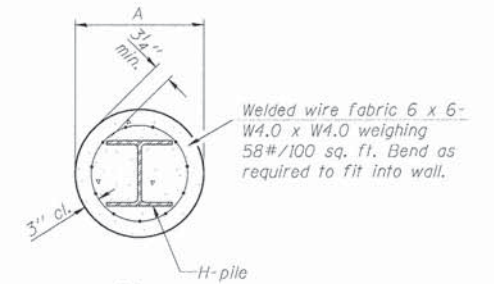
WELDED COMMERCIAL SPLICE ALTERNATE

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



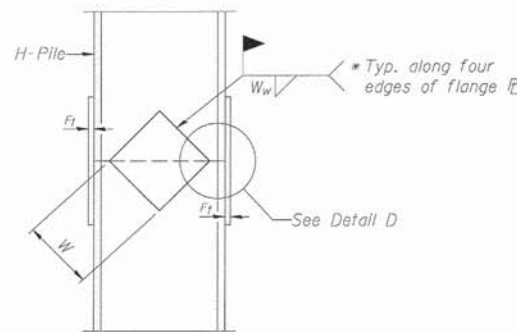
ELEVATION

PILE ENCASEMENT

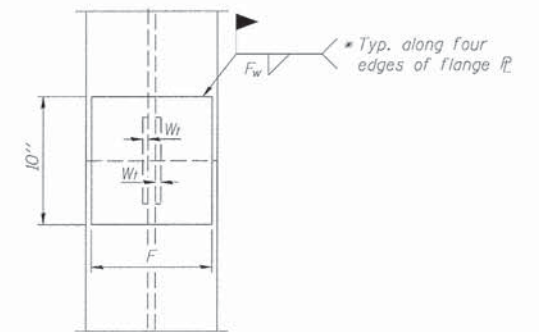


SECTION A-A

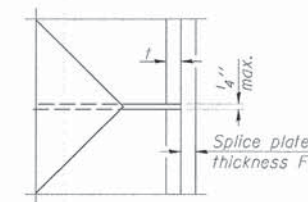
Note:
Forms for encasement may be omitted when soil conditions permit.



ELEVATION



END VIEW



DETAIL D

WELDED PLATE FIELD SPLICE

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

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

F-HP

7-1-10

DESIGNED	K.J.H.
CHECKED	C.S.S.
DRAWN	C.S.S.
CHECKED	K.J.H.

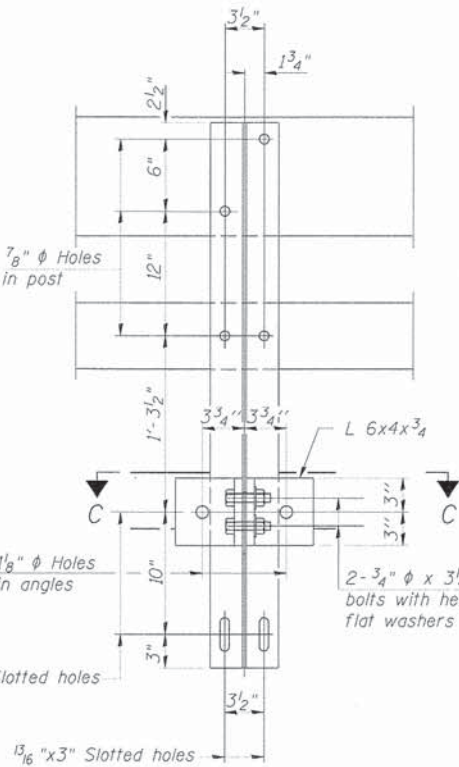
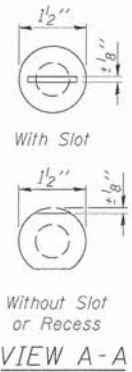
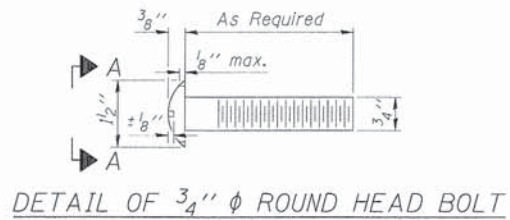


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3002 CROSSING COURT
CHAMPAIGN, IL 61822
PHONE (217) 351-6268
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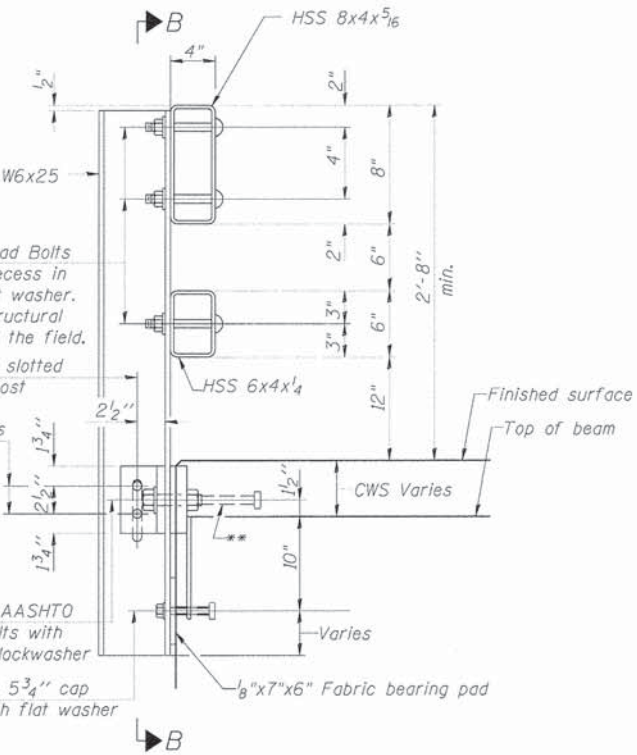
PILE DETAILS

FAS 452 (CH2) OVER TATER CREEK
SEC 11-00130-08-BR
FULTON COUNTY

BRIDGE SHEET 7	F.A.S. RTE. 452	SECTION 11-00130-08-BR	COUNTY FULTON	TOTAL SHEETS 33	SHEET NO. 23
OF 9 SHEETS			CONTRACT NO. 89649	ILLINOIS FED. AID PROJECT	

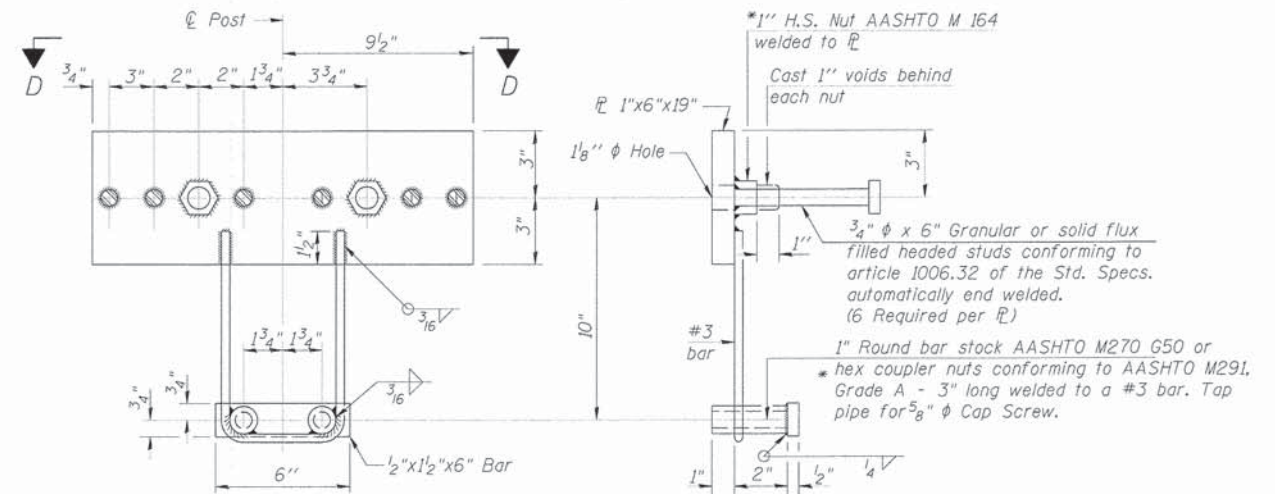


SECTION B-B



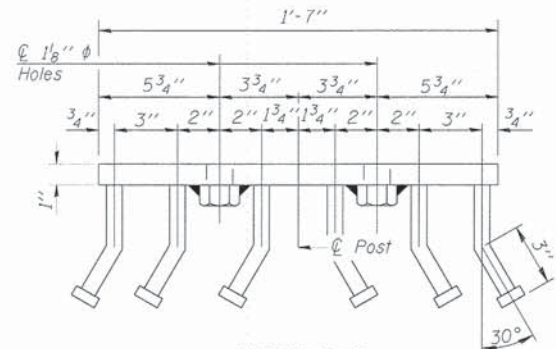
SECTION AT RAIL POST

**See note on sheet 2 of 2

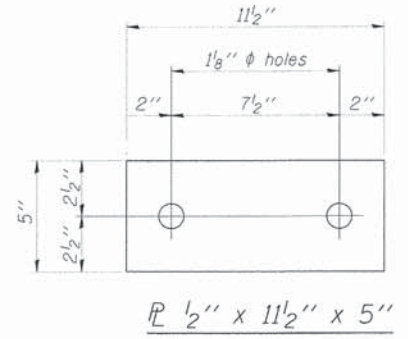


ANCHOR DEVICE

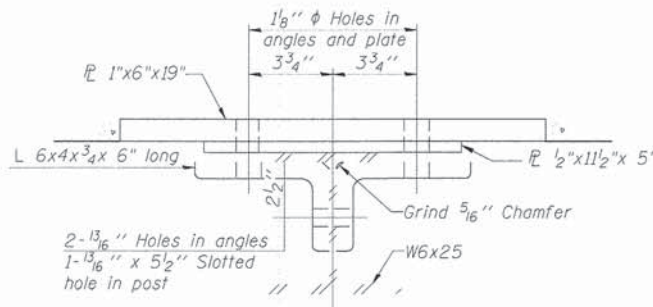
*Threaded areas shall be plugged or blocked off during casting of beam. Galvanized after fabrication.



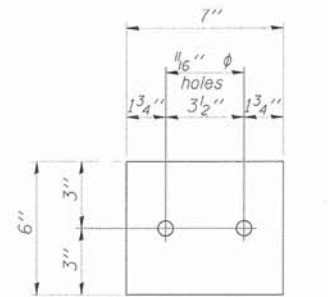
VIEW D-D



PL 1/2" x 11 1/2" x 5"



SECTION C-C



PL 1/2" x 7" x 6"

See "CONCRETE WEARING SURFACE" sheet for details on the pairs of D(E) bars at each embedded anchor in PPC deck beams.

R-34CWS

DESIGNED	K.J.H.
CHECKED	C.S.S.
DRAWN	C.S.S.
CHECKED	K.J.H.

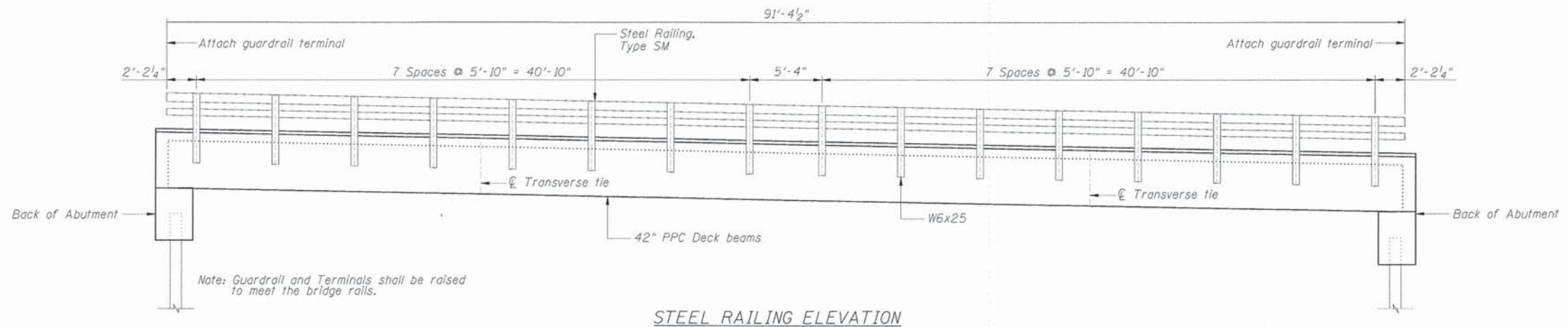


ENGINEERING RESOURCE ASSOCIATES, INC.
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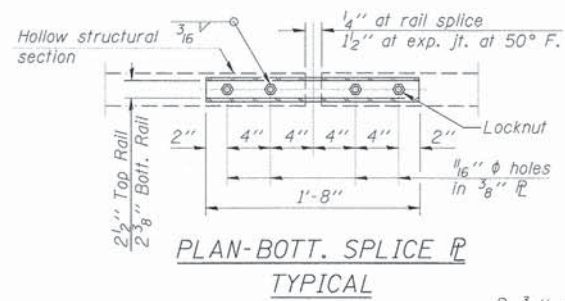
STEEL RAILING, TYPE SM (SHEET 1 OF 2)

FAS 452 (CH2) OVER TATER CREEK
SEC 11-00130-08-BR
FULTON COUNTY

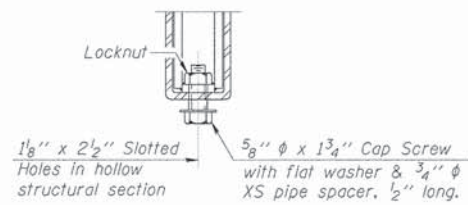
BRIDGE SHEET 8	F.A.S. RTE. 452	SECTION 11-00130-08-BR	COUNTY FULTON	TOTAL SHEETS 33	SHEET NO. 24
OF 9 SHEETS				CONTRACT NO. 89649	
ILLINOIS FED. AID PROJECT					



STEEL RAILING ELEVATION

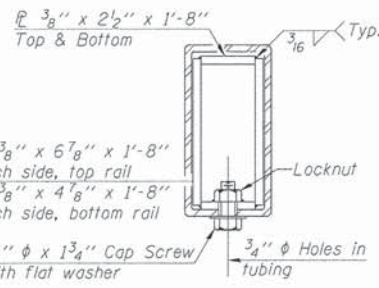


Updated in Revision 1



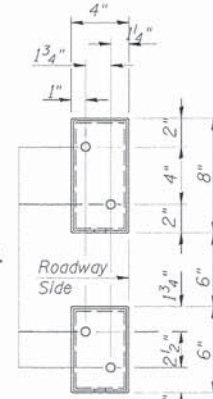
RAIL SPLICE CONNECTION AT EXPANSION JT.

Updated in Revision 1



SECTION AT RAIL SPLICE

Updated in Revision 1



VIEW E-E

Updated in Revision 1

ϕ - 5/8" reduced base welded studs. Provide 4 - 5/8" washers and self-locking nuts or nuts and jam nuts for guardrail connection shown on Std. 631032

BILL OF MATERIAL

Item	Unit	Quantity
Steel Railing, Type SM	Foot	183

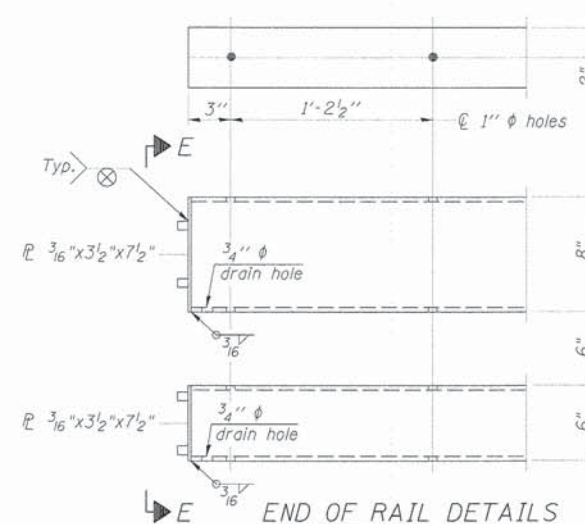
NOTES

All field drilled holes shall be coated with an approved zinc rich paint before erection.

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.

Bolts located at expansion joint shall be provided with locknuts and shall be tightened only to a point that will allow railing movement.

** 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.



Updated in Revision 1

STEEL RAILING, TYPE SM (SHEET 2 OF 2)

FAS 452 (CH2) OVER TATER CREEK
SEC 11-00130-08-BR
FULTON COUNTY

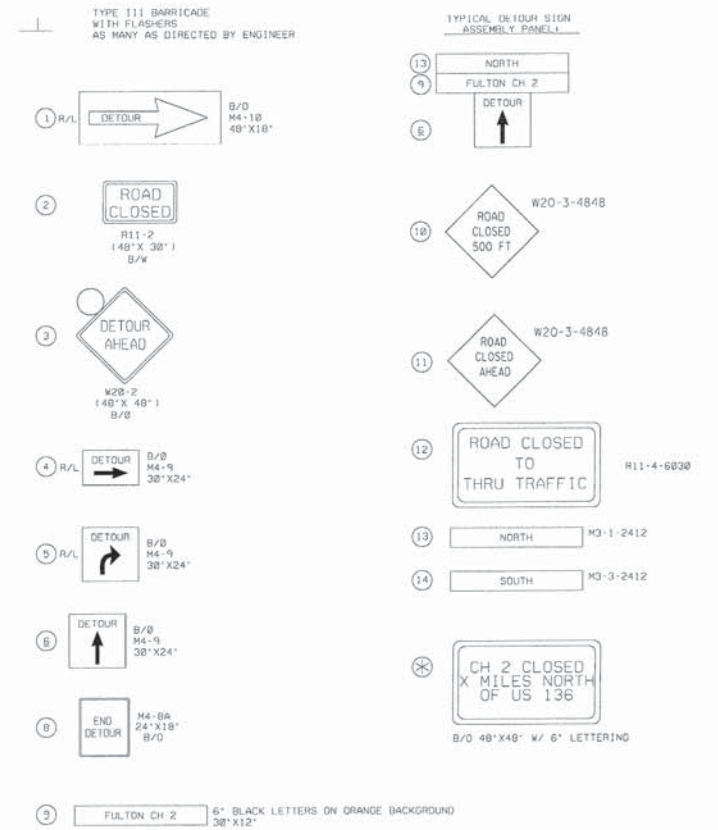
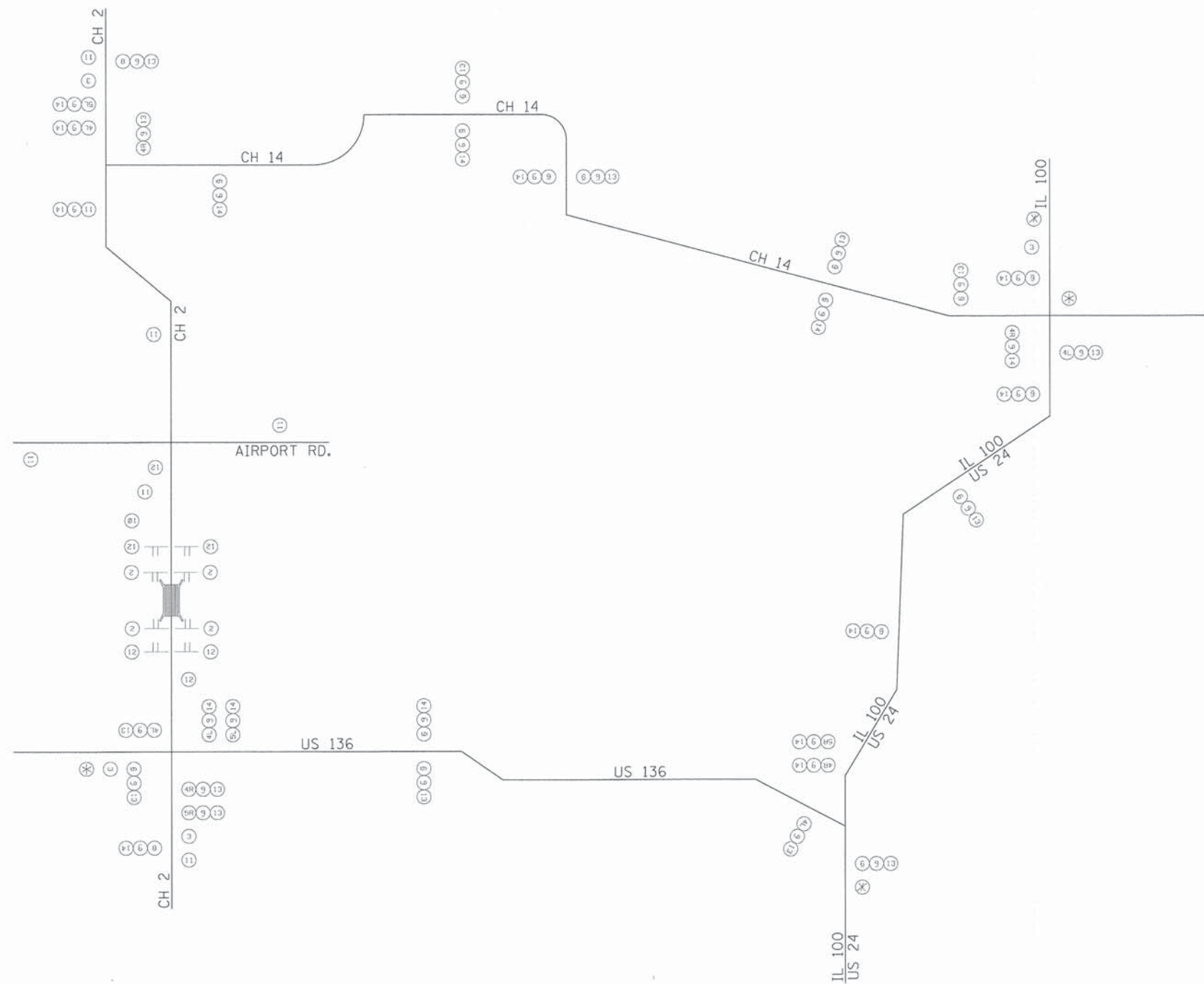
R-34CWS

DESIGNED	K.J.H.
CHECKED	C.S.S.
DRAWN	C.S.S.
CHECKED	K.J.H.



ENGINEERING
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FAX (217) 355-1902

BRIDGE SHEET	F.A.S. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
9	452	11-00130-08-BR	FULTON	33	25
				CONTRACT NO. 89649	
ILLINOIS FED. AID PROJECT					



- NOTES:
- MULTIPLE SIGNS AT ANY ONE LOCATION SHALL BE MOUNTED ON A COMMON POST OR STRUCTURE WHEN POSSIBLE. SIGNS MAY BE MOUNTED ON STREET LIGHT STANDARDS WHERE AVAILABLE. SIGN SPACING SHALL BE ACCORDING TO 100T DISTRICT DETAIL TC-21.
 - ALL DETOUR SIGNS SHALL BE MOUNTED A MINIMUM OF 7 FEET ABOVE THE EXISTING SURFACE ON POSTS DRIVEN INTO THE GROUND PER STATE STANDARD 781981.
 - B/O - BLACK LEGEND ON ORANGE BACKGROUND
B/W - BLACK LEGEND ON WHITE BACKGROUND
 - SIGN SPACING MAY BE ADJUSTED TO SUIT FIELD CONDITIONS.
 - L/R INDICATES LEFT OR RIGHT.
 - SIGNS NOT IN USE TO BE DROPPED OR BAGGED.
 - SIGNAGE SHOWN IS A SUGGESTED MINIMUM. COUNTY HAS THE RIGHT TO REQUEST ADDITIONAL SIGNAGE WITH NO ADDITIONAL COMPENSATION FOR CONTRACTOR.

DESIGNED	M.R.K.
CHECKED	J.R.W.
DRAWN	M.R.K.
CHECKED	J.R.W.

ENGINEERING RESOURCE ASSOCIATES, INC.
 CONSULTING ENGINEERS, SCIENTISTS & SURVEYORS
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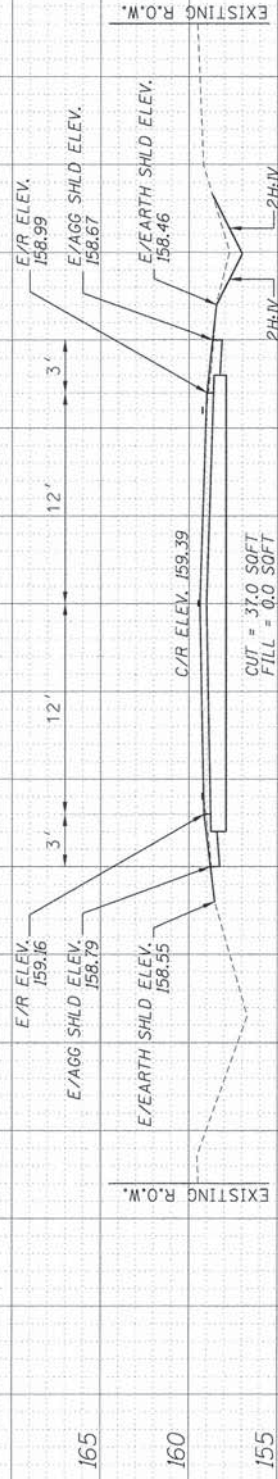
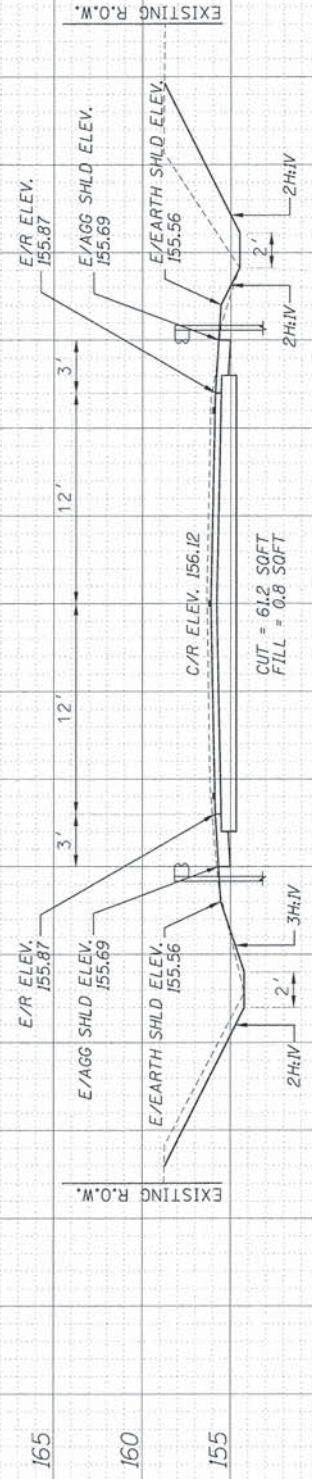
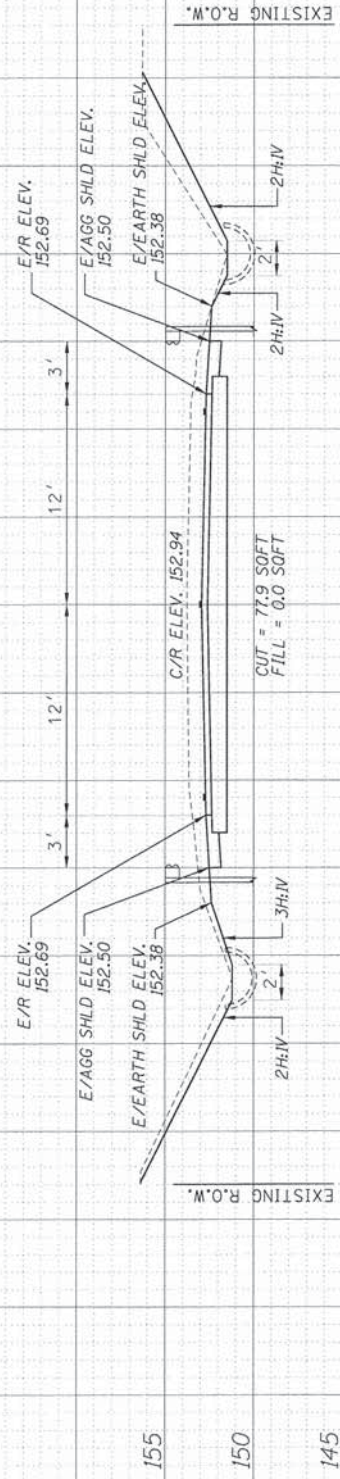
DETOUR PLAN SIGNAGE
 FAS 452 (CH2) OVER TATER CREEK
 SEC 11-00130-08-BR
 FULTON COUNTY

F.A.S. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
452	11-00130-08-BR	FULTON	33	26
				CONTRACT NO. 89649
ILLINOIS FED. AID PROJECT				

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

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

50 45 40 35 30 25 20 15 10 5 0 5 10 15 20 25 30 35 40 45 50 55



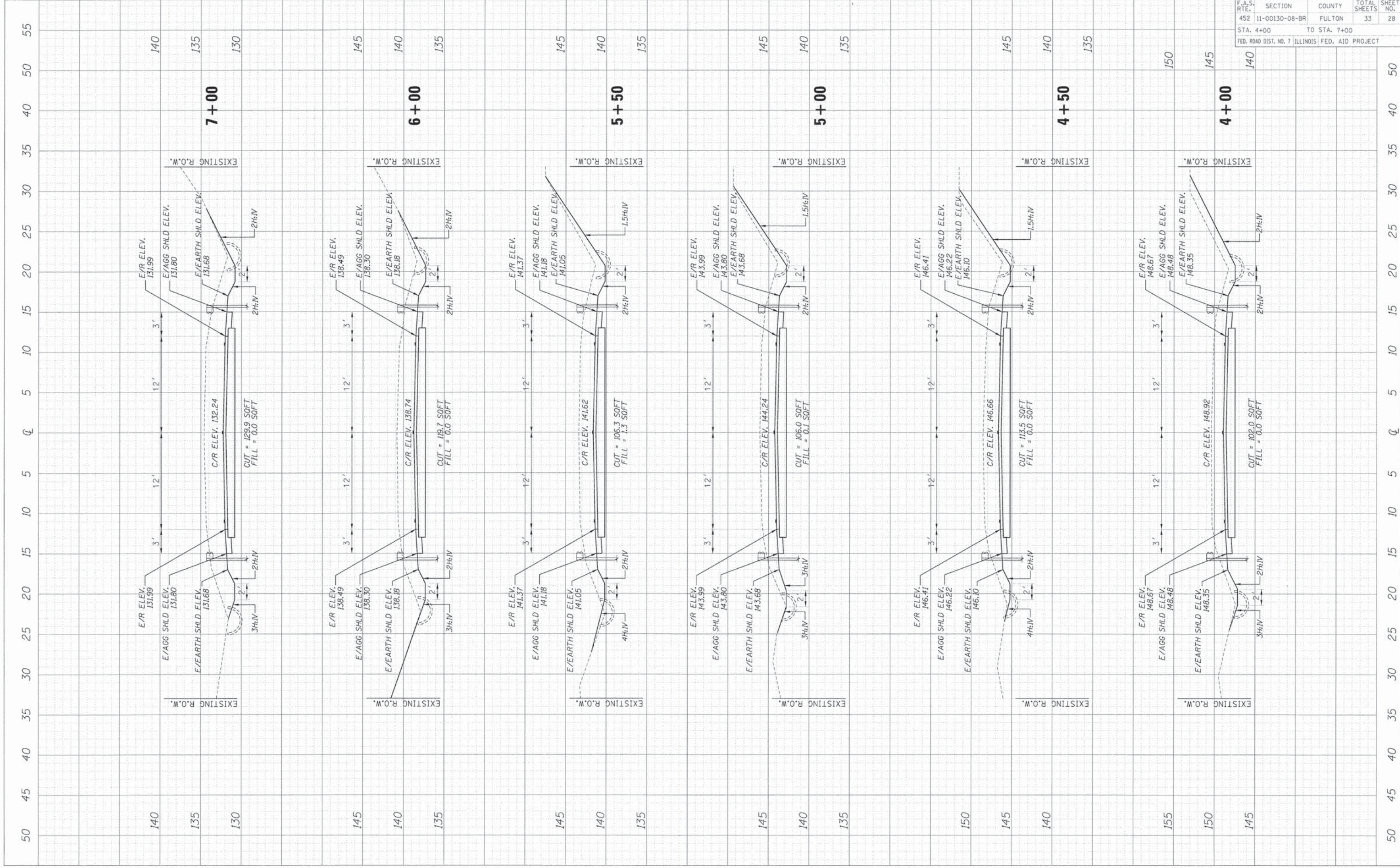
CONTRACT NO. 89649			
F.A.S. RTE.	SECTION	COUNTY	TOTAL SHEETS
452	11-00130-08-BR	FULTON	33
STA. 0+00		TO STA. 3+00	
FED. ROAD DIST. NO. 7		ILLINOIS FED. AID PROJECT	

50 45 40 35 30 25 20 15 10 5 0 5 10 15 20 25 30 35 40 45 50 55

FINAL SURVEY	BY	DATE
SURVEY PLOTTED		
NOTE BOOK		
TEMPLATE		
AREAS		
CHECKED		

ORIGINAL SURVEY	BY	DATE
PLOTTED		
NOTE BOOK		
TEMPLATE		
AREAS		
CHECKED		

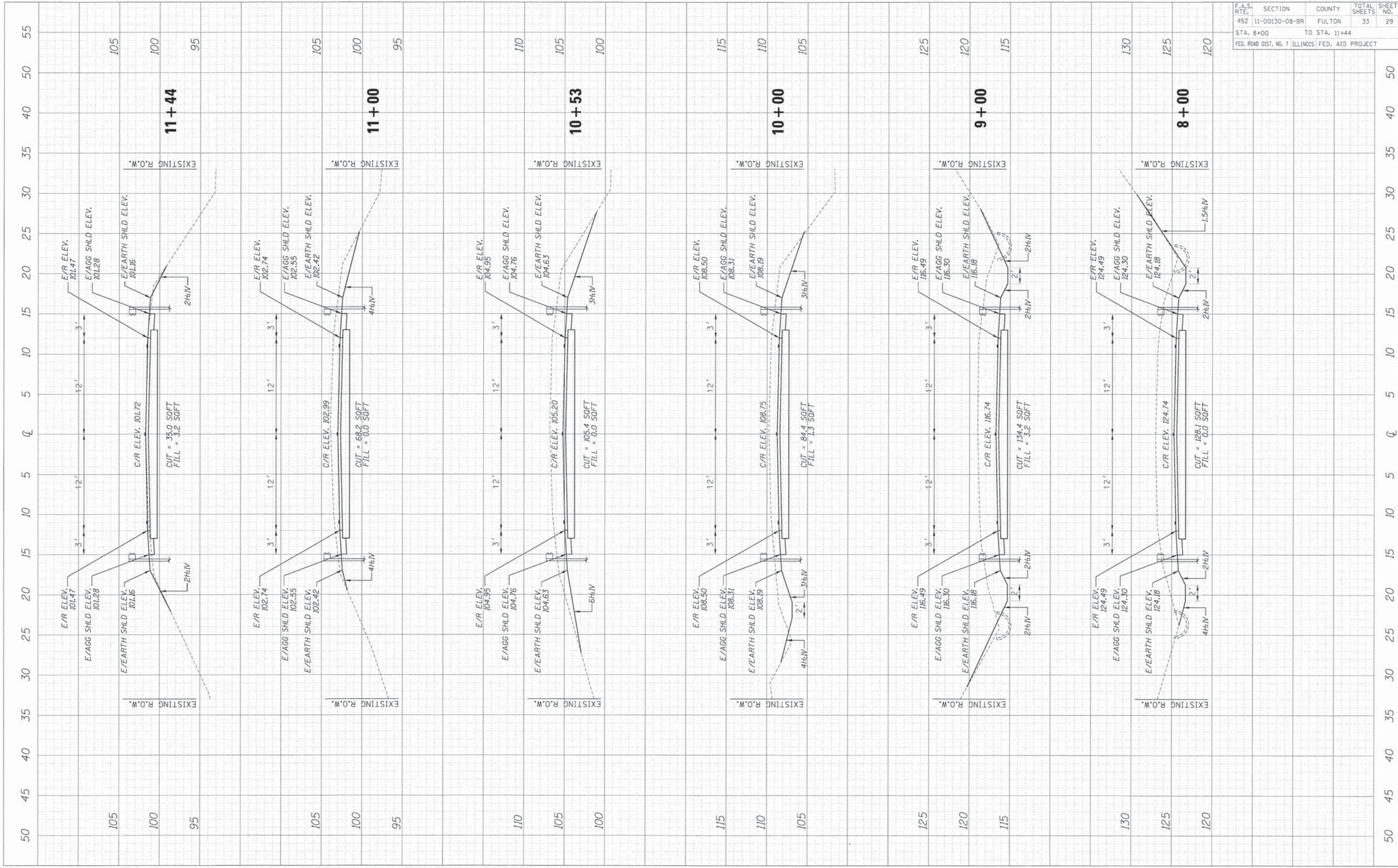
CONTRACT NO. 89649			
F.A.S. SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
452 11-00130-08-BR	FULTON	33	28
STA. 4+00 TO STA. 7+00		ILLINOIS FED. AID PROJECT	
FED. ROAD DIST. NO. 7			



ORIGINAL SURVEY PLOTTED
 CHECKED BY
 DATE
 NO. AREAS CHECKED

FINAL SURVEY PLOTTED
 CHECKED BY
 DATE
 NO. AREAS CHECKED

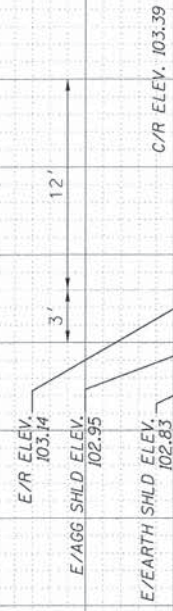
CONTRACT NO. 89649
 SECTION COUNTY TOTAL SHEET NO.
 452 11-00130-08-BR FULTON 33 29
 STA. 8+00 TO STA. 11+44
 FED. ROAD DIST. NO. 7 ILLINOIS FED. AID PROJECT



ORIGINAL SURVEY	DATE
NO.	
REWORKED	BY
PLOTTED	DATE
NOTE BOOK	
TEMPERATURE	
AREAS	
CHECKED	

FINAL SURVEY	DATE
NO.	
REWORKED	BY
PLOTTED	DATE
NOTE BOOK	
TEMPERATURE	
AREAS	
CHECKED	

50 45 40 35 30 25 20 15 10 5 Q 5 10 15 20 25 30 35 40 45 50 55



F.L. ϕ = 100.0'
 Remove existing culvert.
 Replace with new 24" culvert.

EXISTING R.O.W.

105 100 95

14 + 51.75
 Field Entrance



EXISTING R.O.W.

105 100 95

14 + 00



EXISTING R.O.W.

105 100 95

13 + 42.75
 Field Entrance



EXISTING R.O.W.

105 100 95

13 + 00



EXISTING R.O.W.

105 100 95

12 + 66



EXISTING R.O.W.

105 100 95

12 + 00

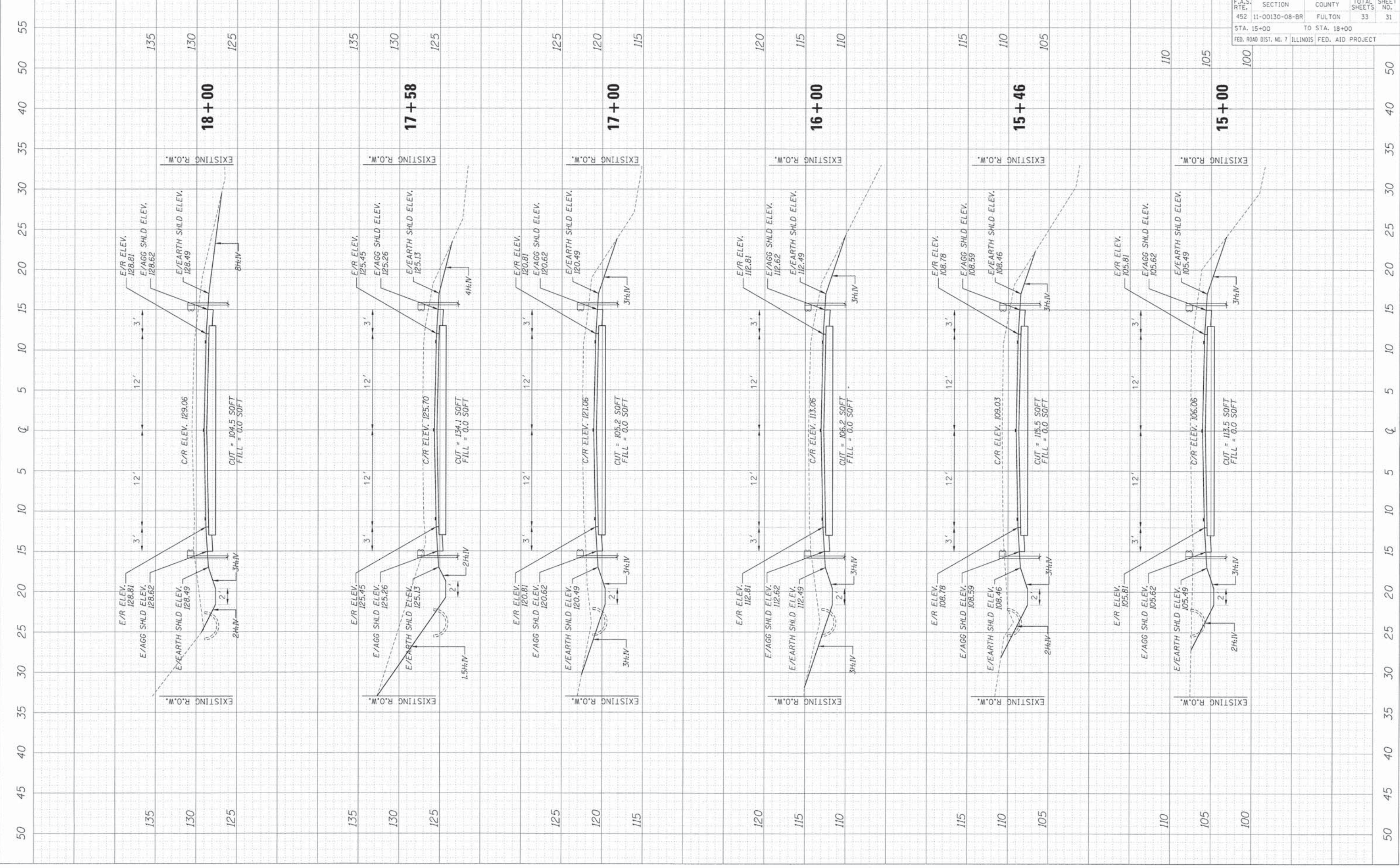
CONTRACT NO. 89649			
F.A.S. RTE.	SECTION	COUNTY	TOTAL SHEETS
452	11-00130-08-BR	FULTON	33
STA. 12+00		TO STA. 14+51.75	
FED. ROAD DIST. NO. 7 ILLINOIS FED. AID PROJECT			

50 45 40 35 30 25 20 15 10 5 Q 5 10 15 20 25 30 35 40 45 50 55

FINAL SURVEY	DATE
CONTRACT NO.	
PROJECT NAME	
DATE PLOTTED	
BY	
NO.	

ORIGINAL SURVEY	DATE
CONTRACT NO.	
PROJECT NAME	
DATE PLOTTED	
BY	
NO.	

CONTRACT NO. 89649			
F.A.S. RTE.	SECTION	COUNTY	TOTAL SHEETS
452	11-00130-08-BR	FULTON	33
STA. 15+00		TO STA. 18+00	
FED. ROAD DIST. NO. 7 ILLINOIS FED. AID PROJECT			



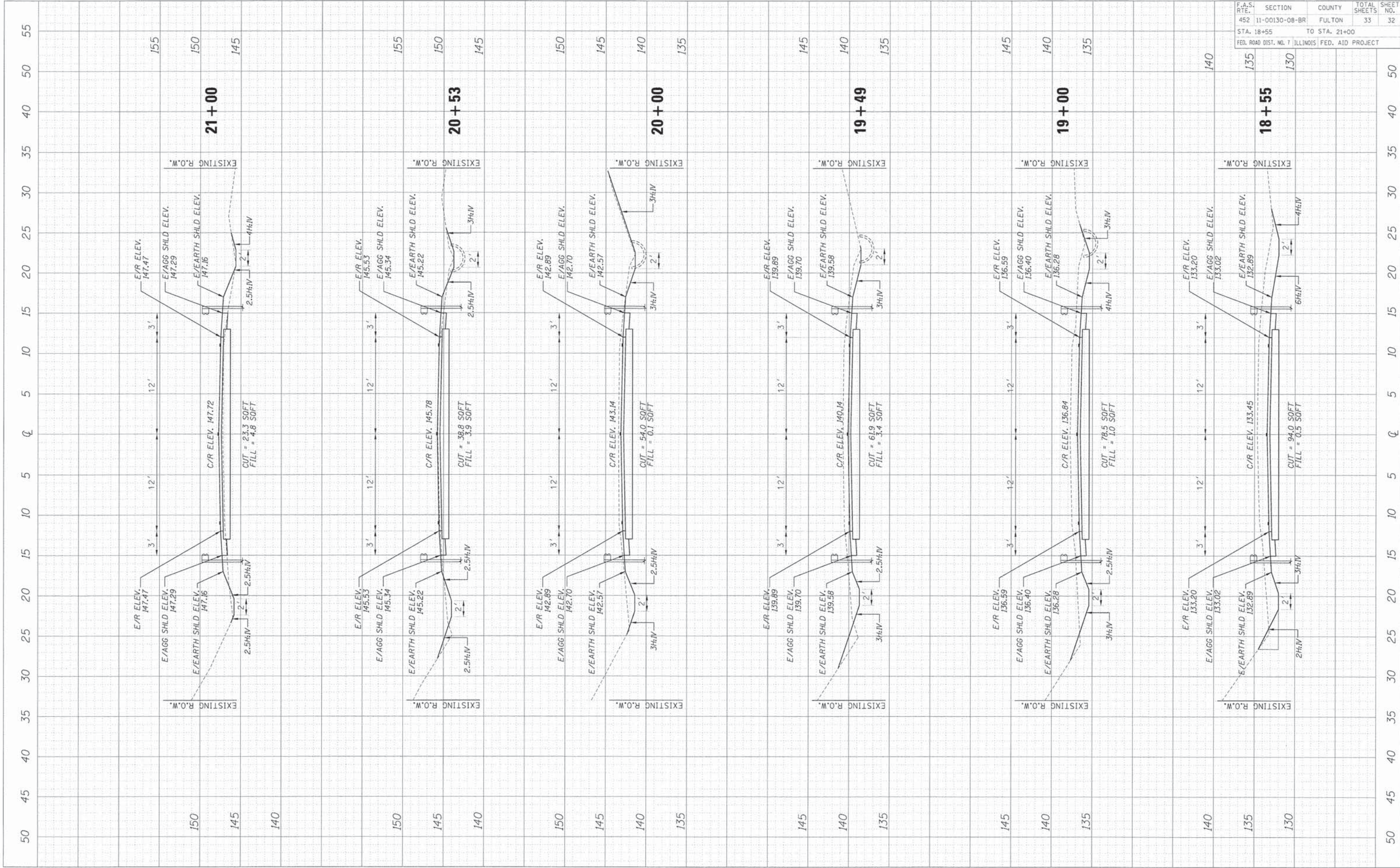
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50 45 40 35 30 25 20 15 10 5 Q 5 10 15 20 25 30 35 40 45 50 55

FINAL SURVEY	DATE
WORKSHEET	BY
PLOTTED	
NOTE BOOK	
TEMPLATE	
AREAS	
CHECKED	

ORIGINAL SURVEY	DATE
WORKSHEET	BY
PLOTTED	
NOTE BOOK	
TEMPLATE	
AREAS	
CHECKED	

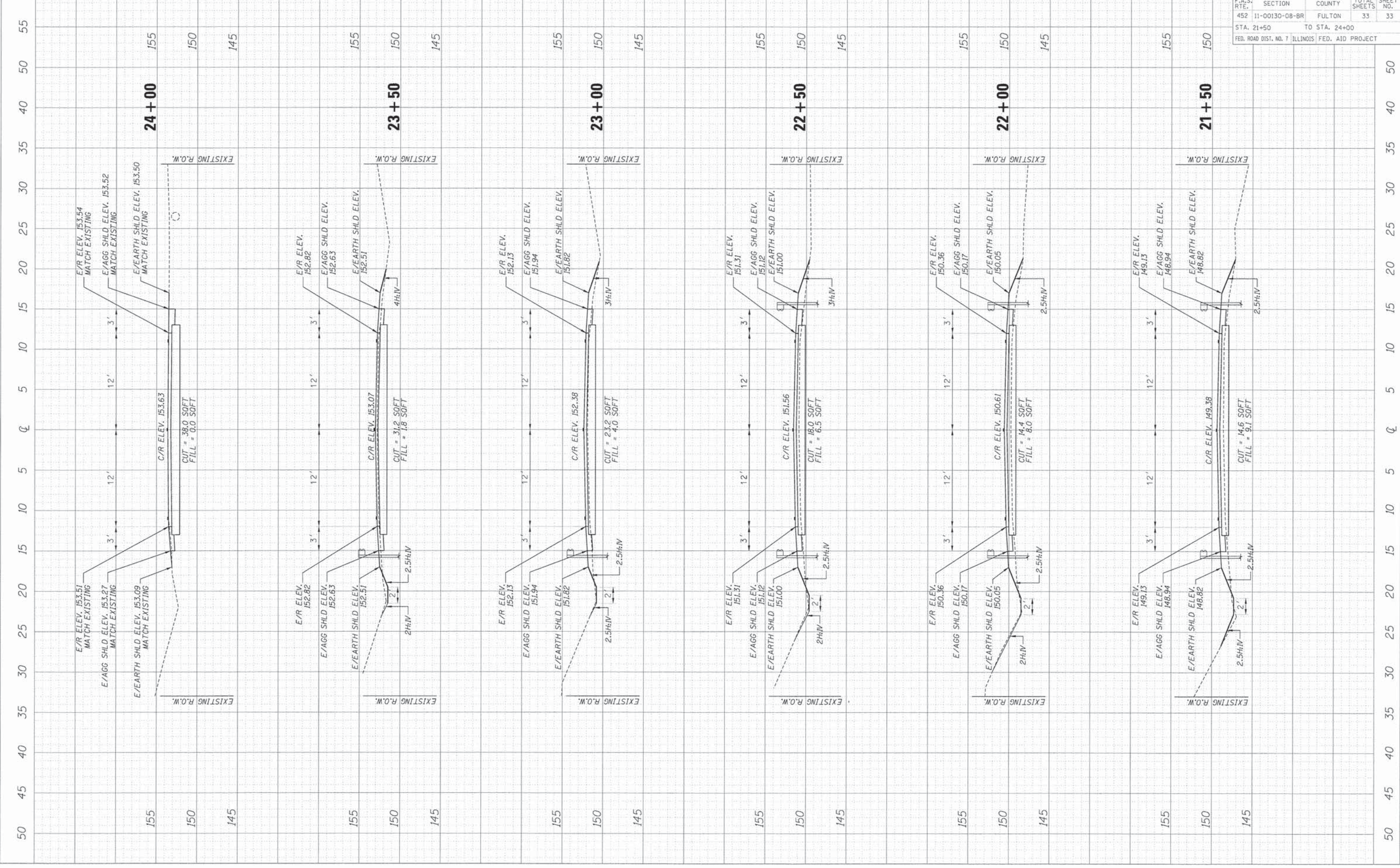
CONTRACT NO. 89649	
F.A.S. RTE.	SECTION
452 11-00130-08-BR	FULTON
STA. 18+55	TO STA. 21+00
FED. ROAD DIST. NO. 7 ILLINOIS	FED. AID PROJECT
TOTAL SHEETS	32
SHEET NO.	33



FINAL	DATE
SURVEY	BY
NOTE BOOK	
TEMPLATE	
AREAS	
CHECKED	
NO.	

ORIGINAL	DATE
SURVEY	BY
NOTE BOOK	
TEMPLATE	
AREAS	
CHECKED	
NO.	

CONTRACT NO. 89649			
F.A.S. RTE.	SECTION	COUNTY	TOTAL SHEETS
452	11-00130-08-BR	FULTON	33
STA. 21+50		TO STA. 24+00	
FED. ROAD DIST. NO. 7 ILLINOIS FED. AID PROJECT			



50 45 40 35 30 25 20 15 10 5 Q 5 10 15 20 25 30 35 40 45 50 55