

FOR INDEX OF SHEETS, SEE SHEET NO. 2

PROJECT LOCATED IN BUTLER TOWNSHIP

07-31-2020 LETTING ITEM 085

TWP. NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
15	17-02154-001-BR	VERMILION	32	1

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION
DIVISION OF HIGHWAYS
**PROPOSED
HIGHWAY PLANS**
TOWNSHIP ROAD 15 (3900 NORTH)
OVER WHISKEY CREEK
SECTION 17-02154-00-BR
BRIDGE REPLACEMENT
VERMILION COUNTY
JOB NO. C-95-003-21
PROJECT NO. ALPE(667)
STP-BR / TBP FUNDS



TRAFFIC DATA

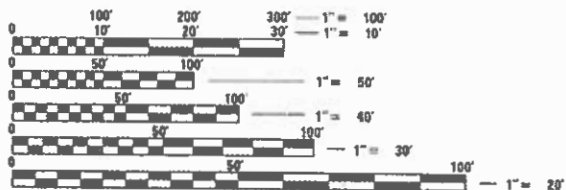
2003 ADT = 50
2032 ADT = 61

DESIGN/POSTED SPEED

DESIGN SPEED = 30 MPH
POSTED SPEED = 35 MPH

FUNCTIONAL CLASSIFICATION

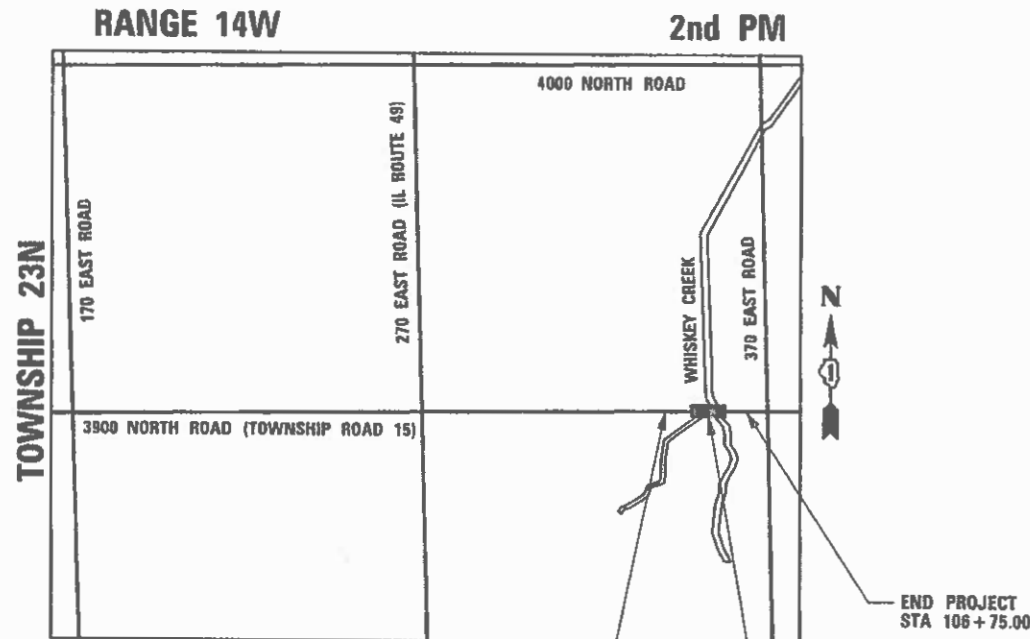
LOCAL ROAD



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

TOWNSHIP: BUTLER
CONTRACT NO. 91595



LOCATION MAP NOT TO SCALE
GROSS AND NET LENGTH = 400 FT. = 0.076 MILES

ENGINEERING RESOURCE ASSOCIATES, INC.
MELISSA F. LANGE, S.E.



MELISSA F. LANGE, S.E.
091-006488
EXP 11-30-2020
DATE 04-17-2020

APPROVED 4/20 2020
Mary Kemble
BUTLER TOWNSHIP ROADWAY COMMISSIONER

APPROVED 4/20 2020
Adrian L. Anewell
VERMILION COUNTY, COUNTY ENGINEER

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

PASSED APRIL 24 2020
[Signature]
DISTRICT 5 ENGINEER OF LOCAL ROADS & STREETS

RELEASING FOR BID
BASED ON LIMITED
REVIEW April 24 2020
[Signature]
REGION 3 ENGINEER

**PRINTED BY THE AUTHORITY
OF THE STATE OF ILLINOIS**



INDEX OF SHEETS

- 1 COVER SHEET
- 2 INDEX OF SHEETS, HIGHWAY STANDARDS
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- 9 PLAN & PROFILE
- 10 SEDIMENT AND EROSION CONTROL PLAN
- 11 PLANTING PLAN
- 12-26 STRUCTURAL PLANS
- 27-32 CROSS SECTIONS

HIGHWAY STANDARDS

STANDARD NO.	DESCRIPTION
000001-07	STANDARD SYMBOLS, ABBREVIATES AND PATTERNS
001001-02	AREAS OF REINFORCEMENT BARS
280001-07	TEMPORARY EROSION CONTROL SYSTEMS
515001-04	NAME PLATE FOR BRIDGES
630001-12	STEEL PLATE BEAM GUARDRAIL
701901-08	TRAFFIC CONTROL DEVICES
725001-01	OBJECT AND TERMINAL MARKERS
BLR 21-9	TYPICAL APPLICATION OF TRAFFIC CONTROL DEVICES FOR CONSTRUCTION ON RURAL LOCAL HIGHWAYS
BLR 27-1	TRAFFIC BARRIER TERMINAL, TYPE 5A

SURVEY DATUM

THE VERTICAL DATUM IS NAVD88.

GENERAL NOTES

1. ALL CONSTRUCTION SHALL BE IN CONFORMANCE WITH THE APPLICABLE REQUIREMENTS SET FORTH IN "THE STANDARD SPECIFICATIONS FOR ROADWAY AND BRIDGE CONSTRUCTION" ADOPTED APRIL 1, 2016 THEREINAFTER REFERRED TO AS THE STANDARD SPECIFICATIONS; THE LATEST EDITION OF THE "ILLINOIS MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES FOR STREETS AND HIGHWAYS" IN EFFECT ON THE DATE OF INVITATION FOR BIDS; THE "SUPPLEMENTAL SPECIFICATIONS AND RECURRING SPECIAL PROVISIONS" LATEST EDITION; INTERIM SPECIAL PROVISIONS INCLUDED IN THE CONTRACT DOCUMENTS; AND THE DETAILS AND STANDARD CONTAINED IN THESE PLANS.
2. BEFORE STARTING ANY EXCAVATION, THE CONTRACTOR SHALL CALL "JULIE" AT 1-800-892-0123 FOR FIELD LOCATIONS OF BURIED ELECTRIC, TELEPHONE, GAS, WATER, SEWER, CABLE TELEVISION AND ALL OTHER FACILITIES.
3. THE LOCATIONS OF THE EXISTING UTILITIES, AS SHOWN ON THE PLANS, REPRESENT DATA RECEIVED FROM VARIOUS SOURCES AND ARE NOT GUARANTEED TO BE CORRECT OR ALL INCLUSIVE. THE CONTRACTOR SHALL CONDUCT THEIR OWN INVESTIGATIONS INTO THE LOCATION, SIZE, DEPTH, AND NATURE OF ANY AND ALL EXISTING UTILITIES WHICH MAY INTERFERE WITH THE WORK UNDER THIS CONTRACT. ANY EXISTING UTILITIES WHICH ARE TO REMAIN IN SERVICE SHALL BE FULLY PROTECTED BY THE CONTRACTOR AND ANY DAMAGE CAUSED BY THE CONSTRUCTION SHALL BE IMMEDIATELY REPAIRED AT NO ADDITIONAL COST IN ACCORDANCE WITH ARTICLE 105.07.
4. ALL WORK SHALL BE COMPLETED WITHIN THE WORK LIMITS OF THE PROJECT SHOWN ON THE PLANS. NO EQUIPMENT, MATERIAL YARD OR FIELD OFFICE SHALL BE SET UP OR STORED ON COUNTY OR PRIVATE PROPERTY WITHOUT WRITTEN PERMISSION OF THE ENGINEER.
5. THE CONTRACTOR SHALL TAKE EXTREME CAUTION DURING ALL PHASES OF CONSTRUCTION TO PREVENT THE DEPOSITION OF ANY MATERIAL INTO THE WATERWAY. ALL PROPOSED CONSTRUCTION ACTIVITIES SHALL BE IN ACCORDANCE WITH THE U.S. ARMY CORPS OF ENGINEERS PERMIT AUTHORIZED UNDER SECTION 404 OF THE CLEAN WATER ACT. THE IEPA HAS ISSUED SECTION 401 WATER QUALITY CERTIFICATION FOR THIS ACTIVITY. SEE SPECIAL PROVISIONS FOR CONDITIONS.
6. AGGREGATE SURFACE COURSE, TYPE B SHALL BE CRUSHED LIMESTONE, GRADATION CA-6.
7. THE FOLLOWING RATES OF APPLICATION ARE USED FOR CALCULATING QUANTITIES:
1.80 TON/CY - AGGREGATE SURFACE COURSE
1.75 TON/CY OR 0.78 TON/SY - STONE DUMPED RIPRAP
9. ALL ELEVATIONS SHOWN IN THE PLANS ARE BASED ON NORTH AMERICAN VERTICAL DATUM OF 1988 (NAVD 88). (GN105.09A)

MOVA1: 1/16/2020
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		DRAWN	= K. KOLODZIEJCZYK	REVISED	=
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PLOT DATE	= 5/11/2020	DATE	= APRIL 17TH, 2020	REVISED	=

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

INDEX, HIGHWAY STANDARDS & GENERAL NOTES
TOWNSHIP ROAD 15 (3900 NORTH)

SCALE: N.T.S. SHEET 1 OF 1 SHEETS STA. TO STA.

TWP. RD.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
15	17-02154-00-BR	VERMILION	32	2
CONTRACT NO. 91595			ILLINOIS FED. AID PROJECT: ALPE1667	



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CODE NO.	ITEM	UNIT	CONSTRUCTION CODE	
			STR: FED	TBP: STATE
			TOTAL QUANTITY	
20300100	CHANNEL EXCAVATION	CU YD		134
20400800	FURNISHED EXCAVATION	CU YD		94
25000312	SEEDING, CLASS 4A	ACRE		0.500
25000314	SEEDING, CLASS 4B	ACRE		0.250
25100115	MULCH METHOD 2	ACRE		0.750
28000250	TEMPORARY EROSION CONTROL SEEDING	POUND		80
28000305	TEMPORARY DITCH CHECKS	FOOT		160
28000315	AGGREGATE DITCH CHECKS	TON		23
28000400	PERIMETER EROSION BARRIER	FOOT		974
28000500	INLET AND PIPE PROTECTION	EACH		1
40200800	AGGREGATE SURFACE COURSE, TYPE B	TON		422
50200100	STRUCTURE EXCAVATION	CU YD		65.1
50300225	CONCRETE STRUCTURES	CU YD		28.3
50400305	PRECAST PRESTRESSED CONCRETE DECK BEAMS (17" DEPTH)	SQ FT		1247
50800205	REINFORCEMENT BARS, EPOXY COATED	POUND		3,120
Δ 50900205	STEEL RAILING, TYPE S-1	FOOT		93
51201600	FURNISHING STEEL PILES HP 12X53	FOOT		248
51202305	DRIVING PILES	FOOT		248
51203600	TEST PILE STEEL HP12X53	EACH		2
51204650	PILE SHOES	EACH		10

Δ SPECIALTY ITEMS

USER NAME = mrange	DESIGNED - K. KOLODZIEJCZYK	REVISED -
PLGT SCALE = 1/2"=1'-0" (1"=1')	DRAWN - K. KOLODZIEJCZYK	REVISED -
PLGT DATE = 5/1/2020	CHECKED - M. LANGE	REVISED -
	DATE - APRIL 17TH, 2020	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

SUMMARY OF QUANTITIES I
TOWNSHIP ROAD 15 (3900 NORTH)

SCALE: N.T.S. SHEET 1 OF 2 SHEETS STA. TO STA.

FWP. RD.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
15	17-02154-00-BR	VERMILION	32	3
			CONTRACT NO. 91595	
ILLINOIS FED. AID PROJECT: ALPE1687				



CODE NO.	ITEM	UNIT	CONSTRUCTION CODE	
			STR: FED	TBP: STATE
			TOTAL QUANTITY	
51500100	NAME PLATES	EACH		1
542C0229	PIPE CULVERTS, CLASS C, TYPE 1 24"	FOOT		32
59300100	CONTROLLED LOW-STRENGTH MATERIAL	CU YD		43
Δ 63000001	STEEL PLATE BEAM GUARDRAIL, TYPE A, 6 FOOT POSTS	FOOT		37.5
Δ 63100075	TRAFFIC BARRIER TERMINAL, TYPE 5A	EACH		4
Δ 63100167	TRAFFIC BARRIER TERMINAL, TYPE 1 (SPECIAL) TANGENT	EACH		3
67100100	MOBILIZATION	L SUM		1
Δ 72500300	OBJECT MARKER - TYPE 3	EACH		1
Δ 72501000	TERMINAL MARKER - DIRECT APPLIED	EACH		3
X2020410	EARTH EXCAVATION (SPECIAL)	CU YD		279
X2810808	STONE DUMPED RIPRAP, CLASS A4 (SPECIAL)	TON		327
X5010205	REMOVAL OF EXISTING STRUCTURES (SPECIAL)	EACH		1
Δ X6330725	STEEL PLATE BEAM GUARDRAIL (SHORT RADIUS)	FOOT		12.5
X7011800	TRAFFIC CONTROL AND PROTECTION, STANDARD BLR 21	L SUM		1
XX004566	CONCRETE CUT-OFF WALL	CU YD		6.4
Z0013798	CONSTRUCTION LAYOUT	L SUM		1

Δ SPECIALTY ITEMS

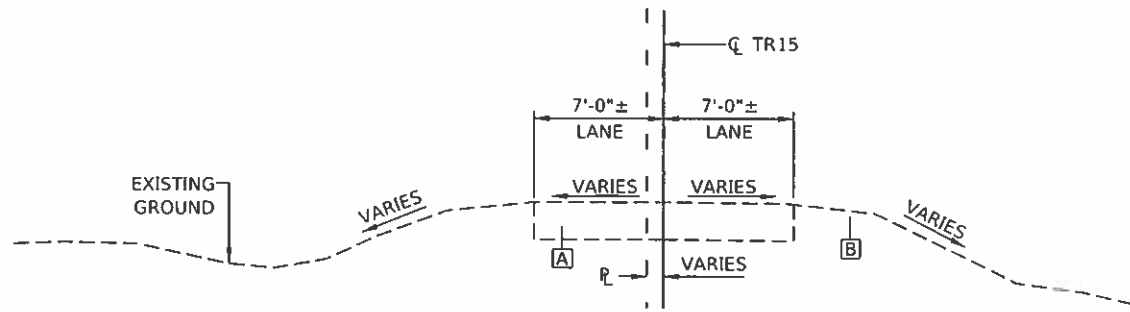
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 P.O. BOX 1000, VERMILION, ILLINOIS 62454-1000

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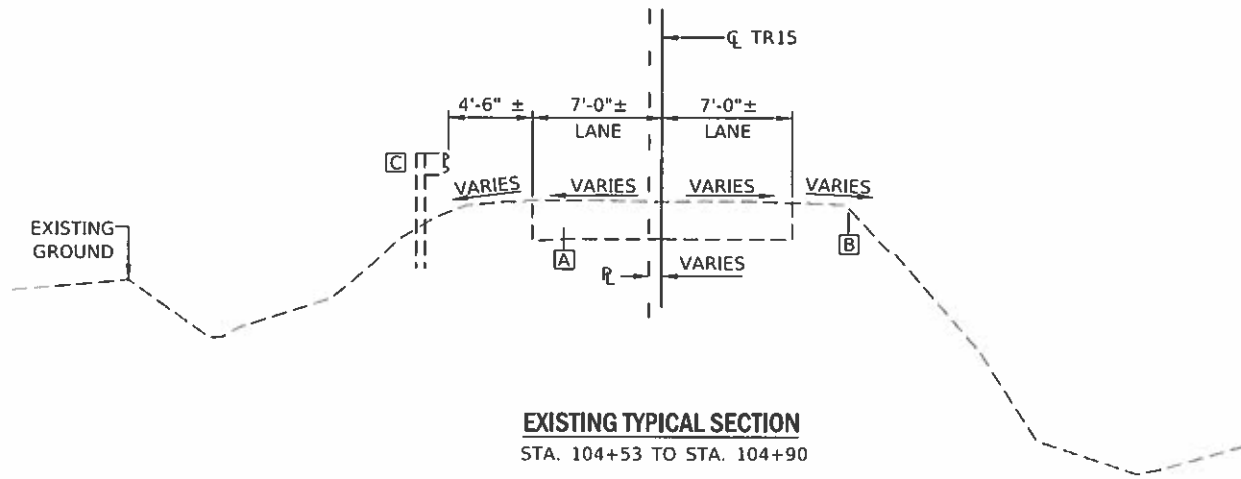
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

SUMMARY OF QUANTITIES II
TOWNSHIP ROAD 15 (3900 NORTH)

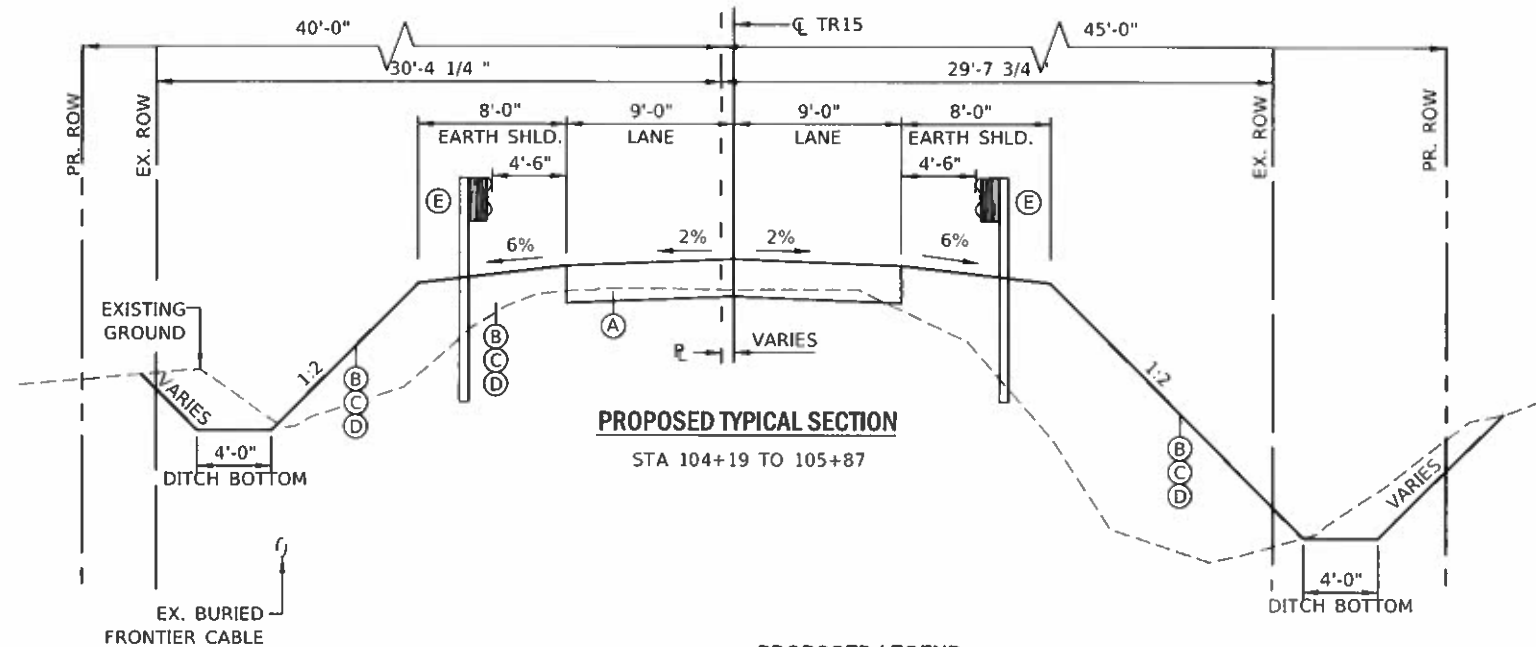
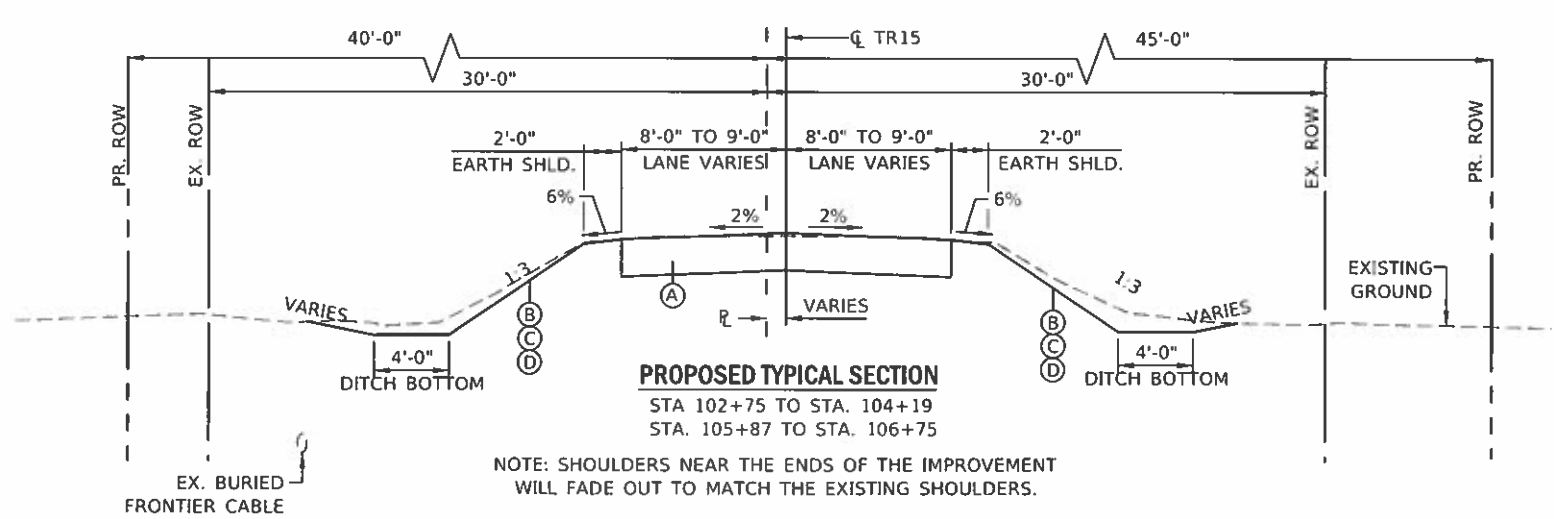
TWP NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
15	17-02154-00-BR	VERMILION	32	4
CONTRACT NO. 91595				
SCALE: N.T.S.	SHEET 2 OF 2 SHEETS	STA. TO STA.	ILLINOIS FED. AID PROJECT: ALPE1667	



EXISTING TYPICAL SECTION
STA 102+60 TO STA. 104+53
STA. 105+17 TO STA. 106+90



EXISTING TYPICAL SECTION
STA. 104+53 TO STA. 104+90

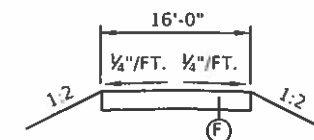
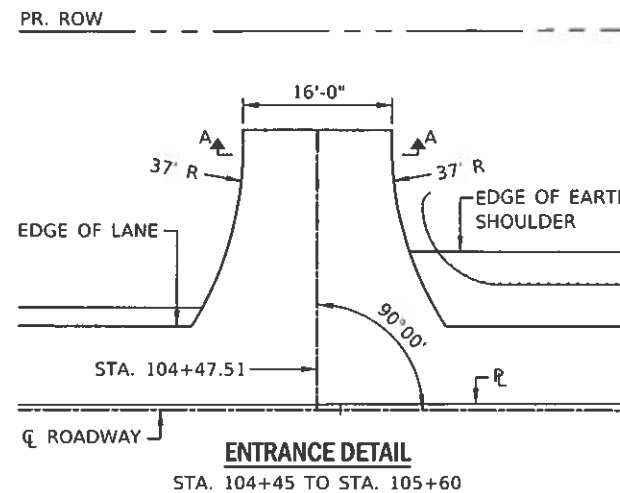


PROPOSED LEGEND

- (A) AGGREGATE SURFACE COURSE, TYPE B, 12-INCHES
- (B) EARTH WORK
- (C) MULCH METHOD 2
- (D) SEEDING (OF THE CLASS SPECIFIED) WITH MULCH, METHOD 2
- (E) STEEL PLATE BEAM GUARDRAIL
- (F) AGGREGATE SURFACE COURSE, TYPE B, 6-INCHES

EXISTING LEGEND

- (A) AGGREGATE SURFACE COURSE
- (B) EARTH SHOULDERS
- (C) STEEL PLATE BEAM GUARDRAIL



MO:\1 - Proj\411
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PLOT SCALE	5:0.0000' = 1" / in.	CHECKED	M. LANGE	REVISED	
PLOT DATE	5/1/2020	DATE	2020-07-15, 2020	REVISED	

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

TYPICAL SECTIONS
TOWNSHIP ROAD 15 (3900 NORTH)

SCALE: N.T.S. SHEET 1 OF 1 SHEETS STA. TO STA.

TWP. RD.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
15	17-02154-00-BR	VERMILION	32	5
CONTRACT NO. 91595			ILLINOIS FED. AID PROJECT: ALPE1667	



EARTHWORK SCHEDULE

LOCATION	END AREAS		EARTHWORK				
	EXCAVATION (CUT)	EMBANKMENT (FILL)	EARTH EXCAVATION (SPECIAL)	EARTH EXCAVATION TO BE USED IN EMBANKMENT (25% SHRINKAGE)	EMBANKMENT	FURNISHED EXCAVATION BALANCE WASTE (+) OR SHORTAGE (-)	CHANNEL EXCAVATION
	(SQ FT)	(SQ FT)	(CU YD)	(CU YD)	(CU YD)	(CU YD)	(CU YD)
102 + 50	0	0					0
103 + 00	27.48	3.5	25.4	19.1	3.2	15.8	0
103 + 50	23.4	7.97	47.1	35.3	10.6	24.7	0
104 + 00	26.8	44.9	46.5	34.9	49.0	-14.1	0
104 + 50	8.4	65.3	32.6	24.4	102.0	-77.6	0
104 + 77	18.3	83.3	13.2	9.9	73.4	-63.5	
5+40.00							1.5
5+50.00							2.9
5+55.00							6.4
5+63.00							18.4
5+72.87							79.1
5+99.87							14.6
6+08.00							7.3
6+16.00							2.9
6+21.00							0.2
6+31.00							
105 + 29	19.8	44.5					
105 + 50	14.6	23.6	13.5	10.1	26.7	-16.6	0
106 + 00	26.2	8.5	37.8	28.3	29.7	-1.4	0
106 + 50	20.7	0.1	43.4	32.6	8.0	24.6	0
107 + 00	0	0	19.2	14.4	0.1	14.3	0
ADJUSTED =			278.7	209.0	302.7	-93.7	133.4
			279			-94	134

RESTORATION SCHEDULE

LOCATION	205000312	25000314
	SEEDING, CLASS 4A	SEEDING, CLASS 4B
	(ACRE)	(ACRE)
102 + 50 - 103 + 00	0.021	0.002
103 + 00 - 103 + 50	0.048	0.007
103 + 50 - 104 + 00	0.054	0.010
104 + 00 - 104 + 50	0.050	0.012
104 + 50 - 105 + 00	0.028	0.005
105 + 00 - 105 + 50	0.023	0.008
105 + 50 - 106 + 00	0.046	0.016
106 + 00 - 106 + 50	0.044	0.009
106 + 50 - 107 + 00	0.018	0.001
	0.331	0.071
ADJUSTED =	0.500	0.250

PAVEMENT SCHEDULE

LOCATION	40200800
	AGGREGATE SURFACE COURSE, TYPE B
	(TON)
102 + 50 - 103 + 00	27.0
103 + 00 - 103 + 50	55.6
103 + 50 - 104 + 00	58.0
104 + 00 - 104 + 50	68.8
104 + 50 - 105 + 00	40.2
105 + 00 - 105 + 50	27.8
105 + 50 - 106 + 00	59.6
106 + 00 - 106 + 50	57.2
106 + 50 - 107 + 00	27.2
	421.4
ADJUSTED =	422

GUARDRAIL SCHEDULE

LOCATION	63000001	63100075	63100167	72500300	72501000	X6330725
	STEEL PLATE BEAM GUARDRAIL, TYPE A, 6 FOOT POSTS	TRAFFIC BARRIER TERMINAL, TYPE 5A	TRAFFIC BARRIER TERMINAL, TYPE 1 (SPECIAL TANGENT)	OBJECT MARKER - TYPE 3	TERMINAL MARKER - DIRECT APPLIED	STEEL PLATE BEAM GUARDRAIL (SHORT RADIUS)
	(FOOT)	(EACH)	(EACH)	(EACH)	(EACH)	(FOOT)
102 + 50 - 103 + 00	0	0	0	0	0	0
103 + 00 - 103 + 50	0	0	0	0	0	0
103 + 50 - 104 + 00	0	0	0	0	0	0
104 + 00 - 104 + 50	0	0	0	1	1	0
104 + 50 - 105 + 00	12.5	2	1	0	0	12.5
105 + 00 - 105 + 50	25.0	2	0	0	0	0
105 + 50 - 106 + 00	0	0	2	0	2	0
106 + 00 - 106 + 50	0	0	0	0	0	0
106 + 50 - 107 + 00	0	0	0	0	0	0
	37.5	4	3	1	3	12.5
ADJUSTED =	37.5	4	3	1	3	12.5

EROSION CONTROL SCHEDULE

LOCATION	25100115	28000250	28000305	28000315	28000400	28000500	X2810808
	MULCH METHOD 2	TEMPORARY EROSION CONTROL SEEDING	TEMPORARY DITCH CHECKS	AGGEGATE DITCH CHECKS	PERIMETER EROSION BARRIER	INLET AND PIPE PROTECTION	STONE DUMPED RIPRAP, CLASS A4 (SPECIAL)
	(ACRE)	(POUND)	(FOOT)	(TON)	(FOOT)	(EACH)	(TON)
102 + 50 - 103 + 00	0.024	2.4	40	0	168	0	0.0
103 + 00 - 103 + 50	0.055	5.5	0	0	100	0	0.0
103 + 50 - 104 + 00	0.064	6.4	0	0	100	0	0.0
104 + 00 - 104 + 50	0.062	6.2	20	0	100	0	0.0
104 + 50 - 105 + 00	0.033	3.3	10	23	68	1	149.0
105 + 00 - 105 + 50	0.031	3.1	40	0	71	0	178.0
105 + 50 - 106 + 00	0.062	6.2	0	0	100	0	0.0
106 + 00 - 106 + 50	0.052	5.2	0	0	100	0	0.0
106 + 50 - 107 + 00	0.019	1.9	50	0	167	0	0.0
	0.402	40.2	160	23	974	1	327.0
ADJUSTED =	0.750	80.0	160	23	974	1	327

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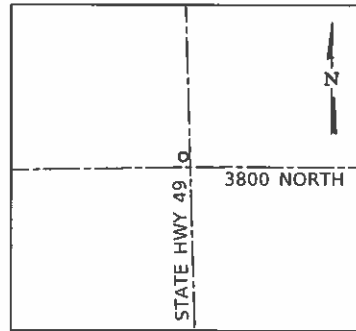
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PLOT DATE = 5/1/2020	DATE - APRIL 17TH, 2020	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

SCHEDULE OF QUANTITIES
TOWNSHIP ROAD 15 (3900 NORTH)

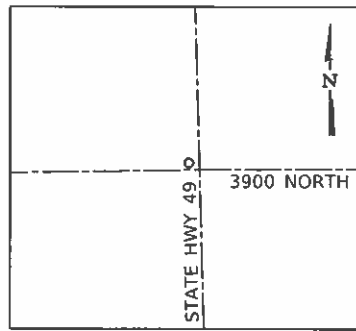
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TWP. RD.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
15	17-02154-00-BR	VERMILION	32	6
CONTRACT NO. 91595			ILLINOIS FED. AID PROJECT: ALPE1667	



BENCHMARK IE-012
ELEV. 739.53

STAINLESS STEEL ROD WITH LOGO CAP LOCATED IN THE SOUTHWEST QUADRANT OF THE JUNCTION OF STATE HIGHWAY 49 WITH COUNTY ROAD 3900 NORTH AT 28.0' SOUTH OF CENTERLINE OF COUNTY ROAD 3900 NORTH; 160.5' WEST OF CENTERLINE OF STATE HIGHWAY 49; 57.4' SOUTHWEST OF A WOODEN POST FOR SPEED LIMIT SIGN AND 4' NORTH OF A CULTIVATION LINE.



BENCHMARK IE-013
ELEV. 757.93

STAINLESS STEEL ROD WITH LOGO CAP LOCATED IN THE NORTHWEST QUADRANT OF THE JUNCTION OF STATE HIGHWAY 49 WITH COUNTY ROAD 3800 NORTH AT 30.5' SOUTH OF CENTERLINE OF COUNTY ROAD 3800 NORTH; 48.6' WEST OF CENTERLINE OF STATE HIGHWAY 49 AND 23.1' NORTHWEST OF THE NORTH END OF A 24" CORRUGATED METAL PIPE.

BENCHMARK "A"

ELEV. 730.67

STA. 104+61.59, 22.99' LT
N 1370433.8622 E 1110563.8010
CROSS CONTROL ON TOP OF A 24" DIP

CONTROL POINT #2

ELEV. 732.216

STA. 101+24.61, 10.74' RT
N 1370398.3310 E 1110227.0590
SET IRON PIPE CAP

CONTROL POINT #1

ELEV. 731.738

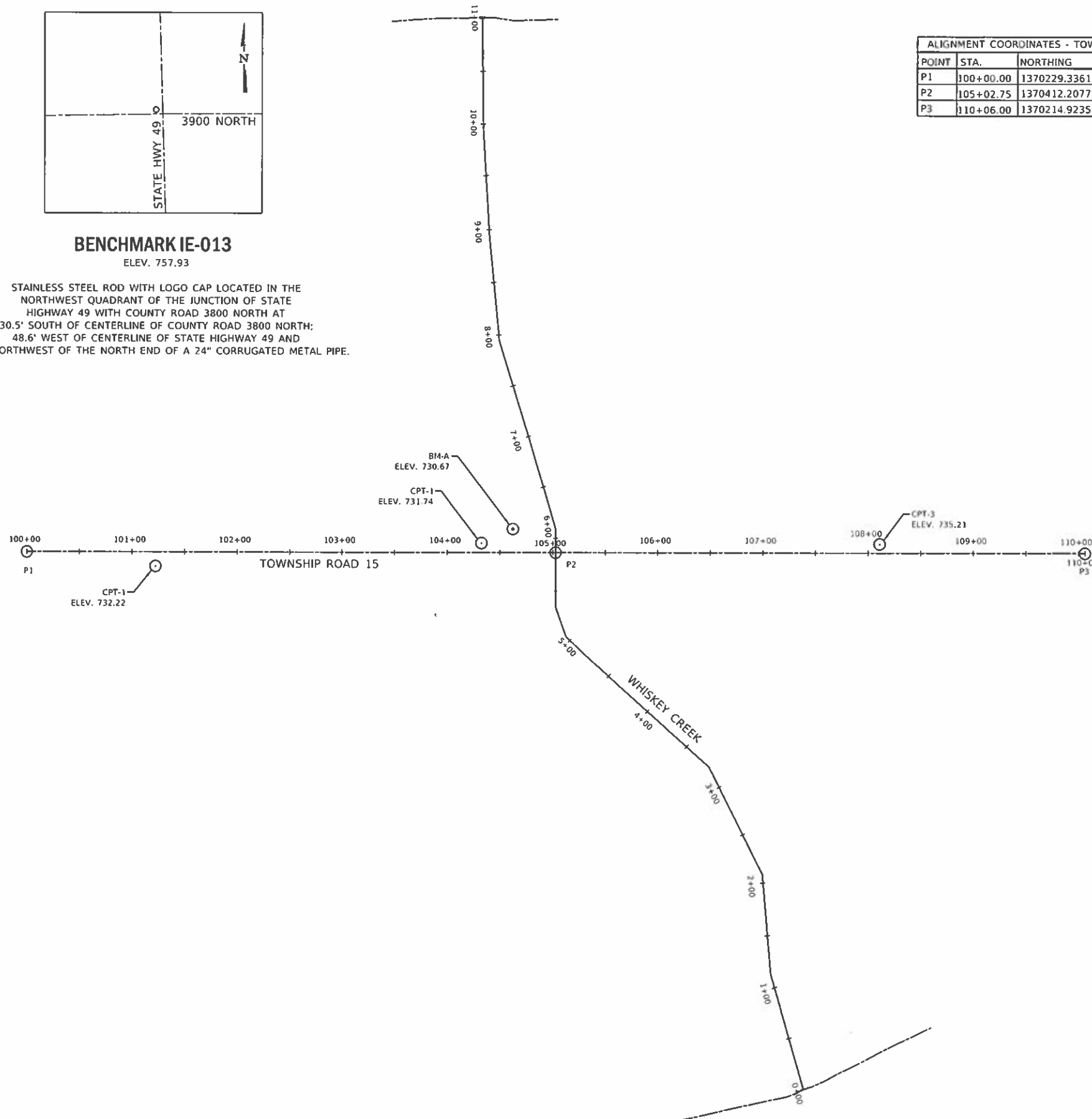
STA. 104+34.57, 11.64' LT
N 1370423.3160 E 1110536.9630
SET IRON PIPE CAP

CONTROL POINT #3

ELEV. 735.201

STA. 108+13.05, 11.16' LT
N 1370425.9070 E 1110915.4310
SET IRON PIPE CAP

ALIGNMENT COORDINATES - TOWNSHIP RD. 15			
POINT	STA.	NORTHING	EASTING
P1	100+00.00	1370229.3361	1109931.6698
P2	105+02.75	1370412.2077	1110605.1392
P3	110+06.00	1370214.9235	1110006.5070



MODAL: 1747.rvt
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USER NAME = mjlange	DESIGNED - K. KOŁODZIEJCZYK	REVISED -
	DRAWN - K. KOŁODZIEJCZYK	REVISED -
PLOT SCALE = 55:1,000@ 1" = 1'	CHECKED - M. LANGE	REVISED -
PLOT DATE = 5/1/2020	DATE - APRIL 17TH, 2020	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

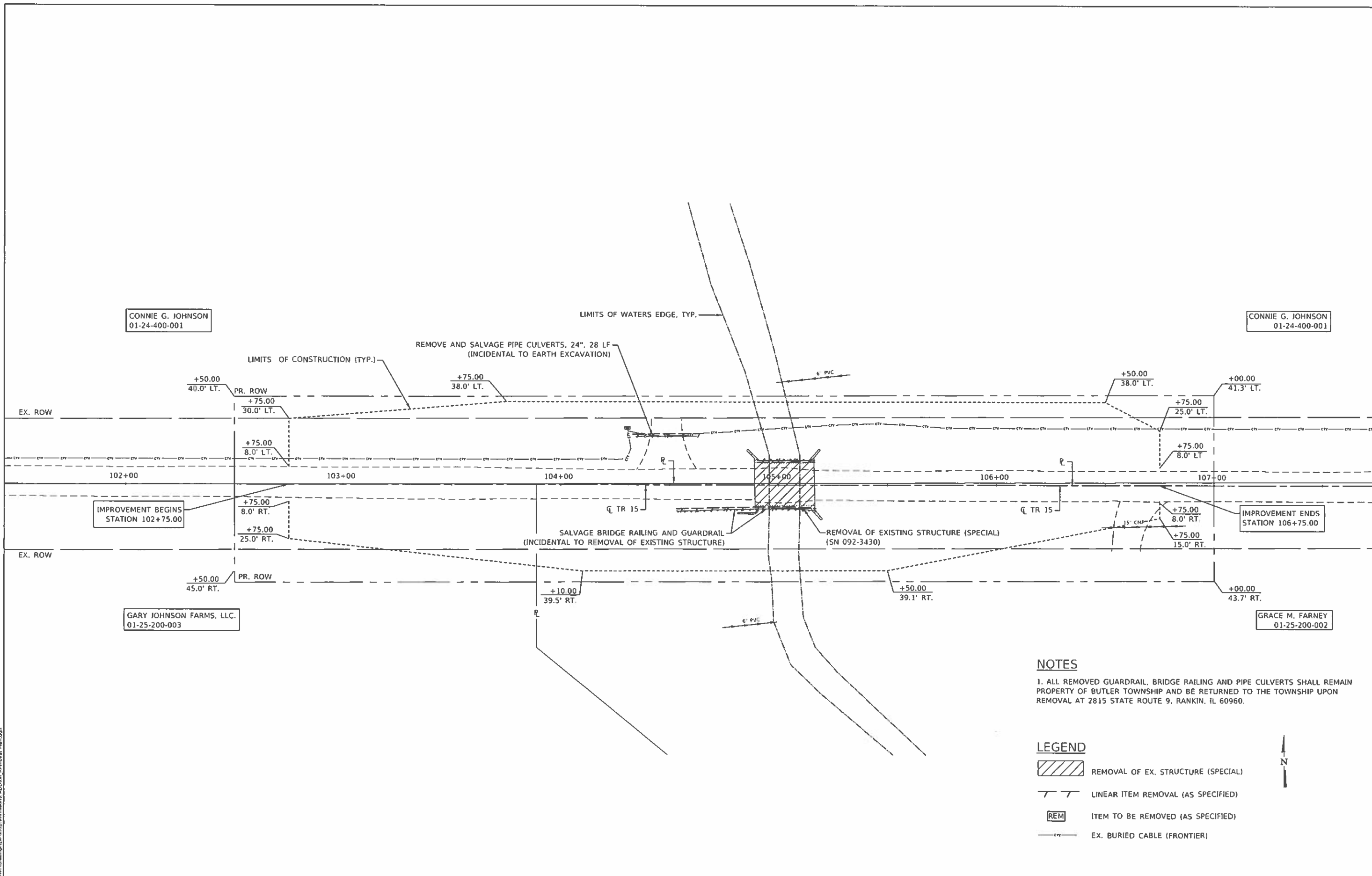
ALIGNMENTS, TIES & BENCHMARKS
TOWNSHIP ROAD 15 (3900 NORTH)

SCALE: SHEET 1 OF 1 SHEETS STA. 100+00 TO STA. 110+06

TWP. RD. 15	SECTION 17-02154-00-BR	COUNTY VERMILION	TOTAL SHEETS 32	SHEET NO. 7
CONTRACT NO. 91595				ILLINOIS FED. AID PROJECT: ALPE1667



HDY:\17\17171\17171.dwg
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CONNIE G. JOHNSON
01-24-400-001

CONNIE G. JOHNSON
01-24-400-001

IMPROVEMENT BEGINS
STATION 102+75.00

IMPROVEMENT ENDS
STATION 106+75.00

GARY JOHNSON FARMS, LLC.
01-25-200-003

GRACE M. FARNEY
01-25-200-002

NOTES

1. ALL REMOVED GUARDRAIL, BRIDGE RAILING AND PIPE CULVERTS SHALL REMAIN PROPERTY OF BUTLER TOWNSHIP AND BE RETURNED TO THE TOWNSHIP UPON REMOVAL AT 2815 STATE ROUTE 9, RANKIN, IL 60960.

LEGEND

- REMOVAL OF EX. STRUCTURE (SPECIAL)
- LINEAR ITEM REMOVAL (AS SPECIFIED)
- ITEM TO BE REMOVED (AS SPECIFIED)
- EX. BURIED CABLE (FRONTIER)



USER NAME	= mlange	DESIGNED	- K. KOLODZIECZYK	REVISED	-
		DRAWN	- K. KOLODZIECZYK	REVISED	-
PLOT SCALE	= 20x1/3200in = 1/160 in.	CHECKED	- M. LANGE	REVISED	-
PLOT DATE	= 5/12/2020	DATE	- APRIL 17TH, 2020	REVISED	-

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**REMOVAL PLAN
TOWNSHIP ROAD 15 (3900 NORTH)**

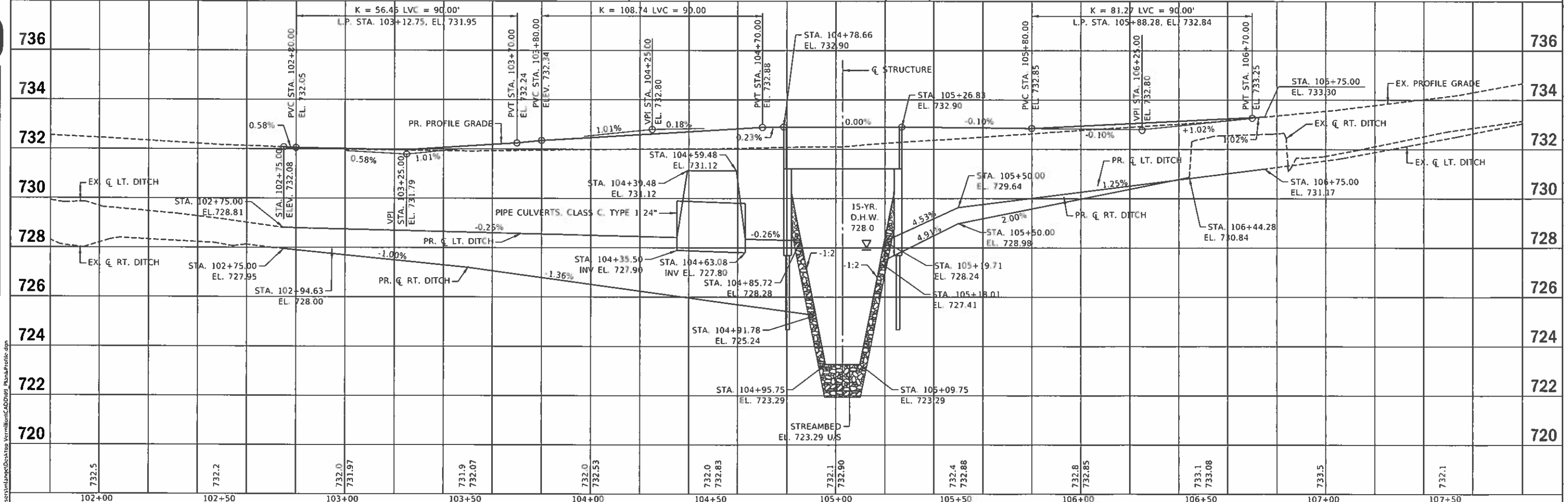
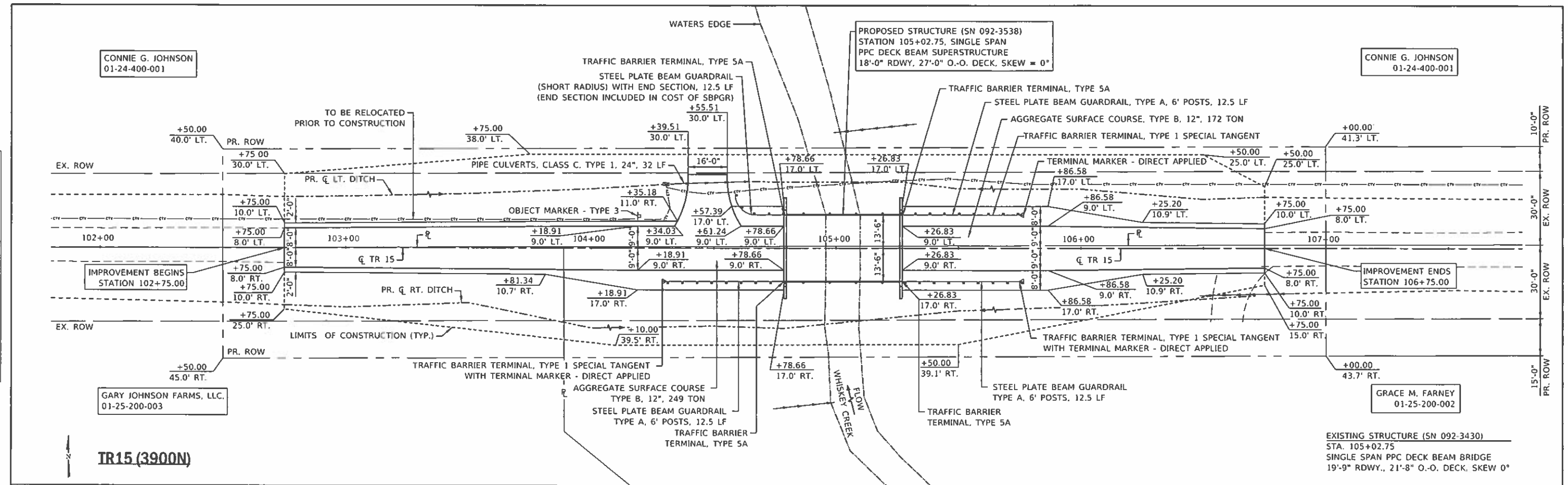
SCALE: 1" = 20' SHEET **1** OF 1 SHEETS STA. 102+75 TO STA. 106+75

TWP RD.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
15	17-02154-00-BR	VERMILION	32	8
CONTRACT NO. 91595			ILLINOIS FED. AID PROJECT: ALPE1667	

DATE
BY
PROJECT NO.
SHEET NO.
DATE
BY
PROJECT NO.
SHEET NO.

ENGINEERING RESOURCE ASSOCIATES

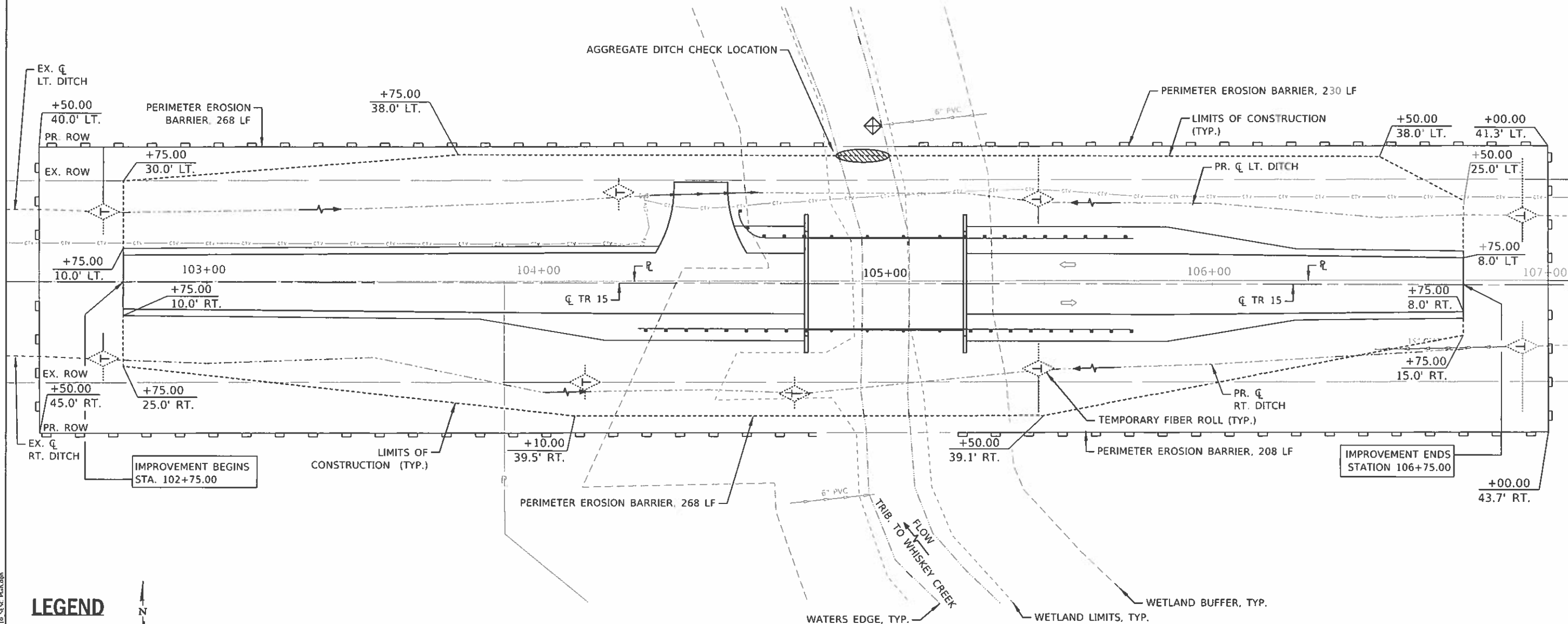
PROFILE
NOTED
NO.
DATE
BY
PROJECT NO.
SHEET NO.



USER NAME	= mlang	DESIGNED	- K. KOLODZIECZYK	REVISED	-	<p align="center">STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION</p>	<p align="center">PLAN AND PROFILE TOWNSHIP ROAD 15 (3900 NORTH)</p>				TWP.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.				
PLOT SCALE	= 20' = 1" (VERTICAL) / 1" = 40' (HORIZONTAL)	CHECKED	- M. LANGE	REVISED	-		SCALE	SHEET	OF	SHEETS	STA.	102+75	TO STA.	106+75	15	17-02 154-00-BR	VERMILION	32	9
PLOT DATE	= 5/1/2020	DATE	- APRIL 17TH, 2020	REVISED	-														

NOTES

1. DIVERSION OF STREAM FLOW WILL BE INCIDENTAL TO THE VARIOUS WORK ITEMS ASSOCIATED WITH IN-STREAM WORK.
2. THE EROSION CONTROL MEASURES INDICATED ON THE PLANS ARE THE MINIMUM REQUIREMENTS. THE CONTRACTOR IS RESPONSIBLE FOR INSTALLATION OF ANY ADDITIONAL EROSION CONTROL MEASURES NECESSARY TO PREVENT EROSION AND SEDIMENTATION AS DETERMINED BY THE ENGINEER OR THE COUNTY.
3. ALL AREAS OF DISTURBED SOIL SHALL BE STABILIZED WITH EROSION CONTROL BLANKET FOLLOWING COMPLETION OF SOIL DISTURBING ACTIVITIES.
4. WORK IN THE WATERWAY SHOULD BE TIMED TO TAKE PLACE DURING LOW OR NO-FLOW CONDITIONS. LOW FLOW CONDITIONS ARE FLOW AT OR BELOW THE NORMAL ELEVATION.
5. ALL SEDIMENT AND EROSION CONTROL ITEMS SHALL BE INSTALLED AND MAINTAINED PER THE DETAILS PROVIDED IN THE ILLINOIS URBAN MANUAL AND WITHIN THE STANDARD SPECIFICATIONS.
5. WORK MAY NOT BE PERFORMED IN THE WATER, EXCEPT FOR THE PLACEMENT OF NON-ERODIBLE MATERIALS NECESSARY FOR THE CONSTRUCTION OF COFFERDAMS (STEEL SHEETS, AQUA BARRIERS, RIP RAP, GEOTEXTILE LINER, ETC.) EARTHEN COFFERDAMS ARE NOT PERMISSIBLE. LUMBER TO BE USED FOR TEMPORARY CONSTRUCTION ACTIVITIES MUST BE FREE OF ALL CHEMICAL TREATMENT. THE COFFERDAMS MUST BE CONSTRUCTED FROM THE UPLAND AREA AND NO EQUIPMENT MAY ENTER THE WATER AT ANY TIME. ONCE THE COFFERDAMS ARE IN PLACE AND ISOLATED AREA IS DEWATERED, EQUIPMENT MAY ENTER THE COFFERED AREA TO PERFORM THE REQUIRED WORK. LOW GROUND-PRESSURE EQUIPMENT IS REQUIRED FOR WORK IN WETLANDS.
6. THE PORTION OF THE SIDE SLOPE THAT IS ABOVE THE OBSERVED WATER ELEVATION SHALL BE STABILIZED AS SPECIFIED IN THE PLANS PRIOR TO ACCEPTING FLOWS. THE SUBSTRATE AND TOE OF SLOPE THAT HAS BEEN DISTURBED DUE TO CONSTRUCTION ACTIVITIES SHALL BE RESTORED TO PROPOSED OR PRE-CONSTRUCTION CONDITIONS AND FULLY STABILIZED PRIOR TO ACCEPTING FLOWS.



LEGEND

- FLOW DIRECTION
- BUFFER LIMITS (25 FT)
- EX. BURIED CABLE (FRONTIER)
- INLET AND PIPE PROTECTION
- WATERS EDGE
- PERIMETER EROSION BARRIER (SILT FENCE)
- EX. STORM SEWER
- AGGREGATE DITCH CHECK
- WETLAND LIMITS
- LIMITS OF CONSTRUCTION
- FIBER ROLL

MOH:1: D:\dwg\17-02154-00-01.dwg
 FILE NAME: C:\Users\mlange\OneDrive\Documents\17-02154-00-01.dwg
 DATE: 5/11/2020

USER NAME	mlange	DESIGNED	K. KOLODZIECZYK	REVISED	-
		DRAWN	K. KOLODZIECZYK	REVISED	-
PLOT SCALE	= 1500.0000 1" = 150'	CHECKED	M. LANGE	REVISED	-
PLOT DATE	= 5/11/2020	DATE	APRIL 17TH 2020	REVISED	-

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

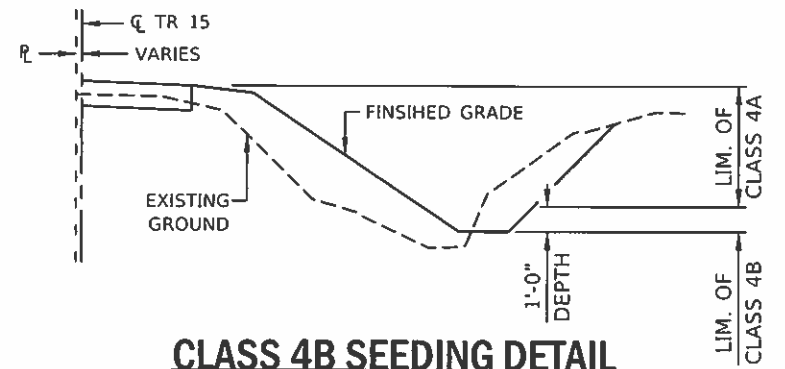
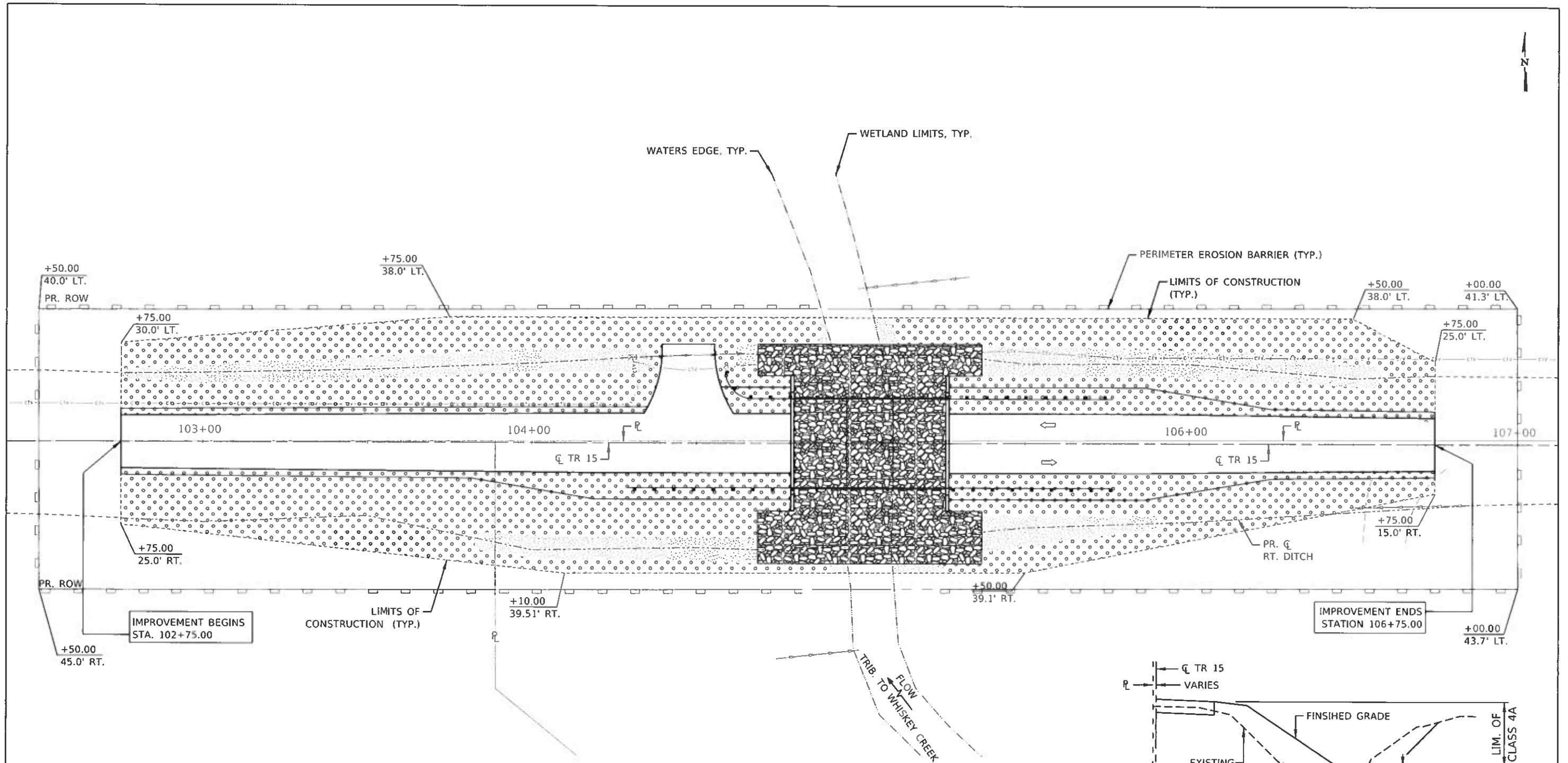
SEDIMENT AND EROSION CONTROL PLAN
TOWNSHIP ROAD 15 (3900 NORTH)

SCALE: 1" = 15' SHEET 1 OF 1 SHEETS STA. 102+75 TO STA. 106+75

TWP. RD.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
15	17-02154-00-BR	VERMILION	32	10
ILLINOIS FED. AID PROJECT: ALPE16671			CONTRACT NO. 91595	



MORRIS: I:\InRoads\17-02154-00-01\17-02154-00-01.dwg



LEGEND

- EX. BURIED CABLE (FRONTIER)
- EX. STORM SEWER
- PERIMETER EROSION BARRIER (SILT FENCE)
- LIMITS OF CONSTRUCTION
- CLASS 4A (LOW PROFILE GRASSES) TEMPORARY EROSION CONTROL SEEDING MULCH METHOD 2 (0.500 ACRE)
- STONE DUMPED RIPRAP (AS SPECIFIED)
- CLASS 4B (WL GRASSES, SEDGES, RUSHES) TEMPORARY EROSION CONTROL SEEDING MULCH METHOD 2 (0.250 ACRE)

USER NAME = mlange	DESIGNED - K. KOLODZIECZYK	REVISED -
	DRAWN - K. KOLODZIECZYK	REVISED -
PLOT SCALE = 1/320,000th 1" = 1/320,000'	CHECKED - M. LANGE	REVISED -
PLOT DATE = 5/11/2020	DATE - APRIL 17TH, 2020	REVISED -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**PLANTING PLAN
TOWNSHIP ROAD 15 (3900 NORTH)**

SCALE: 1" = 15' SHEET 1 OF 1 SHEETS STA. 102+75 TO STA. 106+75

TWP. RD. 15	SECTION 17-02154-00-BR	COUNTY VERMILION	TOTAL SHEETS 32	SHEET NO. 11
CONTRACT NO. 91595			ILLINOIS FED. AID PROJECT: ALPE16671	

Benchmark: Cross control on top of a 24" DIP located at Sta 104+61.59, 22.99' LT., Elev. 730.67 (N 1370433.8622, E 1110563.8010)

Existing Structure: SN 092-3430 is a single-span PPC deck beam superstructure supported on concrete abutments and steel HP piles carrying 3900 North Road (TR 15) over Whiskey Creek. The PPC deck beams were produced in the late 1960's and salvaged from another bridge before being transported and installed at this site in 1999. Back-to-back abutment length is 27'-4" and the out-to-out deck width is 21'-8". The existing bridge is to be removed and replaced.

Traffic Control: The roadway will be closed to through traffic for the duration of construction.

Salvage: Existing bridge railing and guardrail shall be salvage and returned to Butler Township.

DESIGN SCOUR ELEVATION TABLE

Event / Limit State	Design Scour Elevations (ft.)			Item 113
	W. Abut.	E. Abut.		
Q100	728.15	728.15		8
Q200	728.15	728.15		
Design	728.15	728.15		
Check	728.15	728.15		

WATERWAY INFORMATION

Drainage Area = 0.5 sq. mi. Low Grade Elev. 732.90 @ Sta. 105+02.75

Flood	Freq. Yr.	Q C.F.S.	Opening Ft ²		Head - Ft.		Headwater El.		
			Exist.	Prop.	Exist.	Prop.	Exist.	Prop.	
	10	223	69	86	727.5	0.3	0.1	727.8	727.6
Design	15	264	80	97	727.8	0.3	0.1	728.1	728.0
Base	100	437	111	138	729.0	0.3	0.2	729.3	729.2
Overtopping									
Max. Calc.	500	601	140	172	729.9	0.3	0.2	730.2	730.1

10-Yr. Velocity through Existing Structure = 4.4 f.p.s.
 10-Yr Velocity through Proposed Structure = 5.1 f.p.s.

SEISMIC DATA

Seismic Performance Zone (SPZ) = 1
 Design Spectral Acceleration at 1.0 sec. (SD1) = 0.081g
 Design Spectral Acceleration at 0.2 sec. (SDS) = 0.148g
 Soil Site Class = C

DESIGN SPECIFICATIONS

2017 AASHTO LRFD Bridge Design Specifications, 8th Edition

DESIGN STRESSES

FIELD UNITS

$f'_c = 3,500$ psi (Abutment)
 $f_y = 60,000$ psi (Reinforcement)

PRECAST UNITS

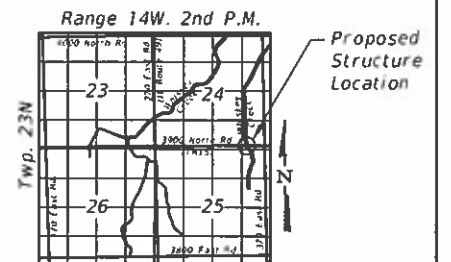
$f'_c = 6,000$ psi
 $f_{ci} = 5,000$ psi
 $f_{pu} = 270,000$ psi (1/2" \varnothing Low Lax Strands)
 $f_{pbt} = 201,960$ psi (1/2" \varnothing Low Lax Strands)

ENGINEERING RESOURCE ASSOCIATES, INC.
 MELISSA F. LANGE, S.E.

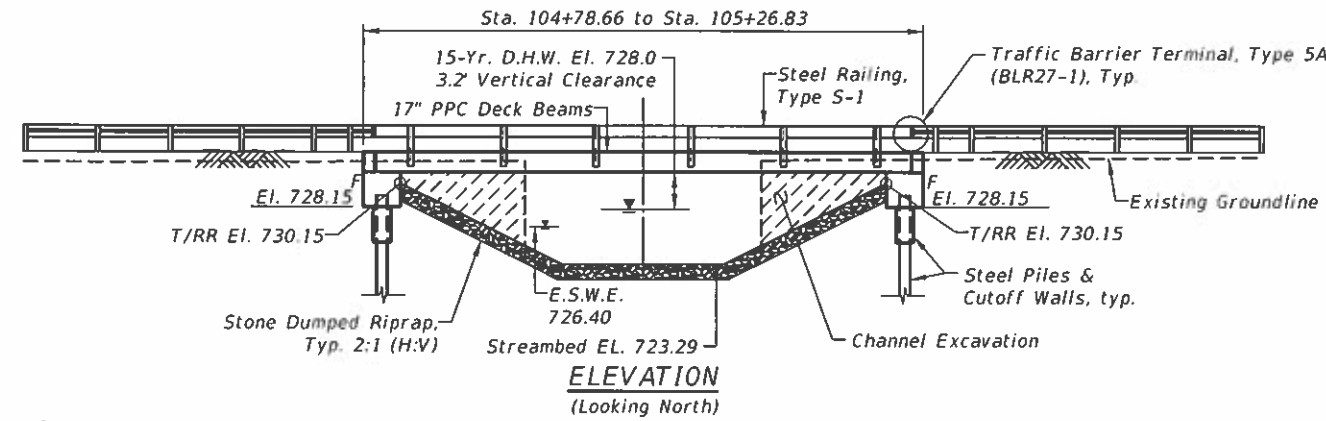


Signature: *M. Lange*
 MELISSA F. LANGE, S.E.
 # 081-006488
 EXP 11-30-2020
 DATE 04-17-2020

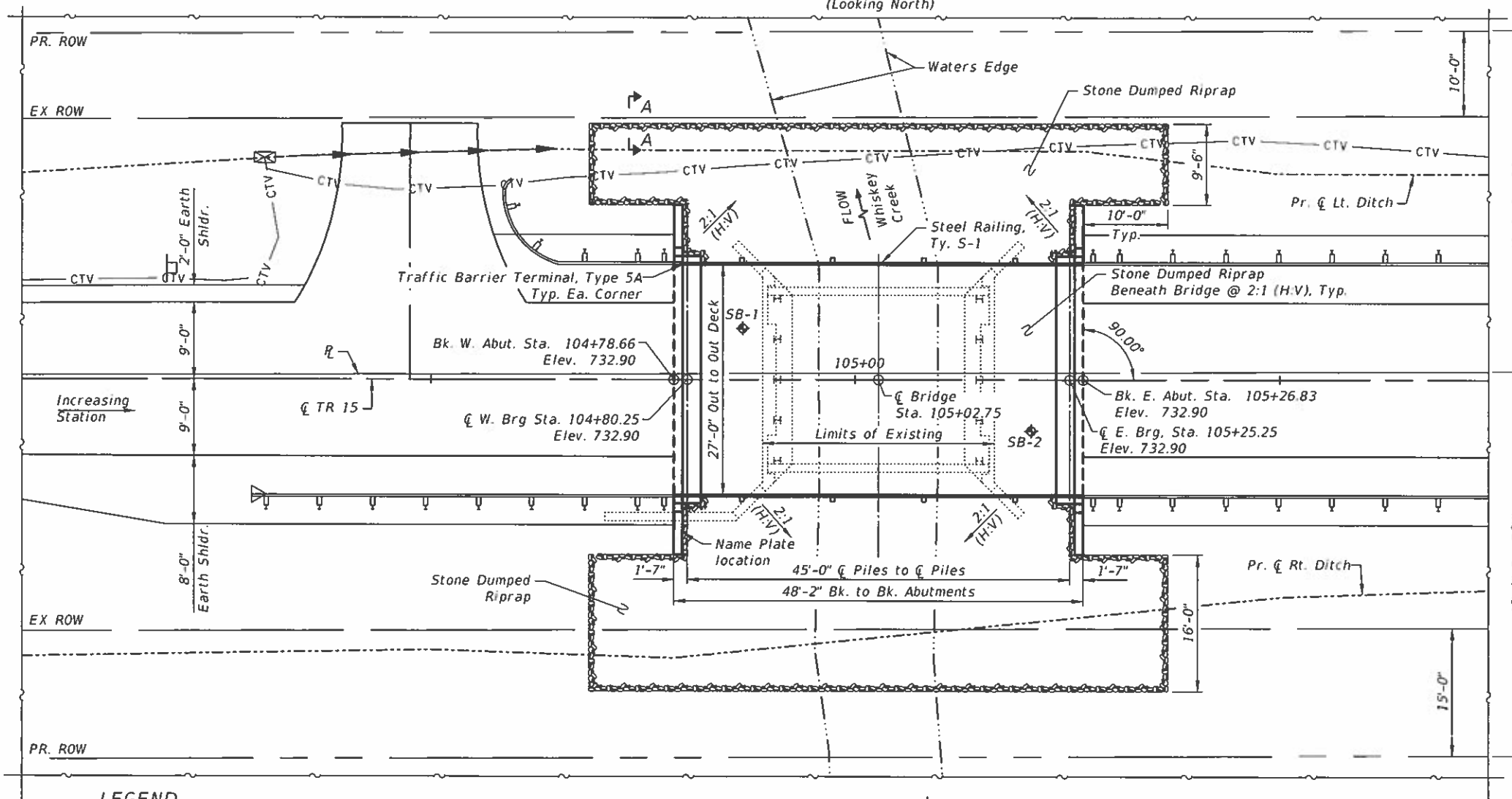
I certify to the best of my knowledge, information and belief, this bridge design is structurally adequate for the design loading shown on the plans. The design is an economical one for the style of the structure and complies with the requirements of the current "AASHTO LRFD Bridge Design Specifications."



GENERAL PLAN & ELEVATION
3900 NORTHRD OVER WHISKEY CREEK
T.R. 15 - SEC 17-02154-00-BR
VERMILION COUNTY
STA. 105+02.75
STRUCTURE NO. 092-3538



LOADING HL-93
 Allow 50#/sq. ft. for future wearing surface.



LEGEND

- Soil Boring
- Ex. Buried Cable (Frontier)
- Channel Excavation

PLAN

STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION

GENERAL PLAN AND ELEVATION
 STRUCTURE NO. 092-3538

SCALE: 8:0.000" = 1' / 8" SHEET 1 OF 15 SHEETS STA. TO STA.

TWP. RD.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
15	17-02154-00-BR	VERMILION	32	12
				CONTRACT NO. 91595
ILLINOIS FED. AID PROJECT: ALPE16671				



MOBILE: 312-947-1111
 FILE NAME: C:\Users\mfrank\Desktop\17-02154-00-BR\17-02154-00-BR-12.dwg

CAST-IN-PLACE CONCRETE

1. Class SI Concrete shall be used in the abutments.

CONSTRUCTION

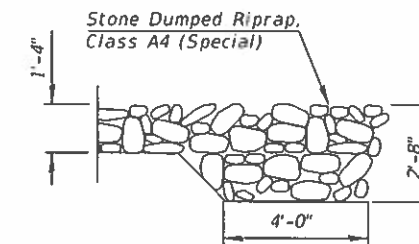
- The Contractor shall not scale dimensions from the contract plans for construction. Scales shown are for information only. Plan dimensions and details relative to existing plans are subject to nominal construction variations. The Contractor shall field verify existing dimensions and details affecting new construction and make necessary approved adjustments prior to construction or ordering of materials. Such variations shall not be the cause for additional compensation for a change in the scope of work, however, the Contractor will be paid for the quantity actually furnished at the unit price bid for the work.
- No construction joints except those shown on the plans will be allowed unless approved by the Engineer.
- It shall be the Contractor's responsibility to verify the location of all utilities prior to starting construction. Contact J.U.L.I.E., 800-892-0123.
- The soil boring logs represent point information. Presentation of this information in no way implies that subsurface conditions are the same at locations other than the exact location of the boring.
- Layout of the slope protection system may be varied to suit ground conditions in the field as directed by the Engineer.
- Lifting holes shall be filled with concrete plugs and mastic after beams are in place.
- Diversion of stream flow will be incidental to the various work items associated with in-stream work.
- The Contractor shall drive two HP test piles in a permanent location (one per abutment) as shown on the Abutment Details 1 of this plan set and as directed by the Engineer before ordering remainder of piles.

WHISKEY CREEK
 BUILT 2020 BY
 VERMILION COUNTY
 BUTLER TOWNSHIP
 SEC. 17-02154-00-BR
 T.R. 15 STA. 105+02.75
 STR. NO. 092-3538
 LOADING HL-93

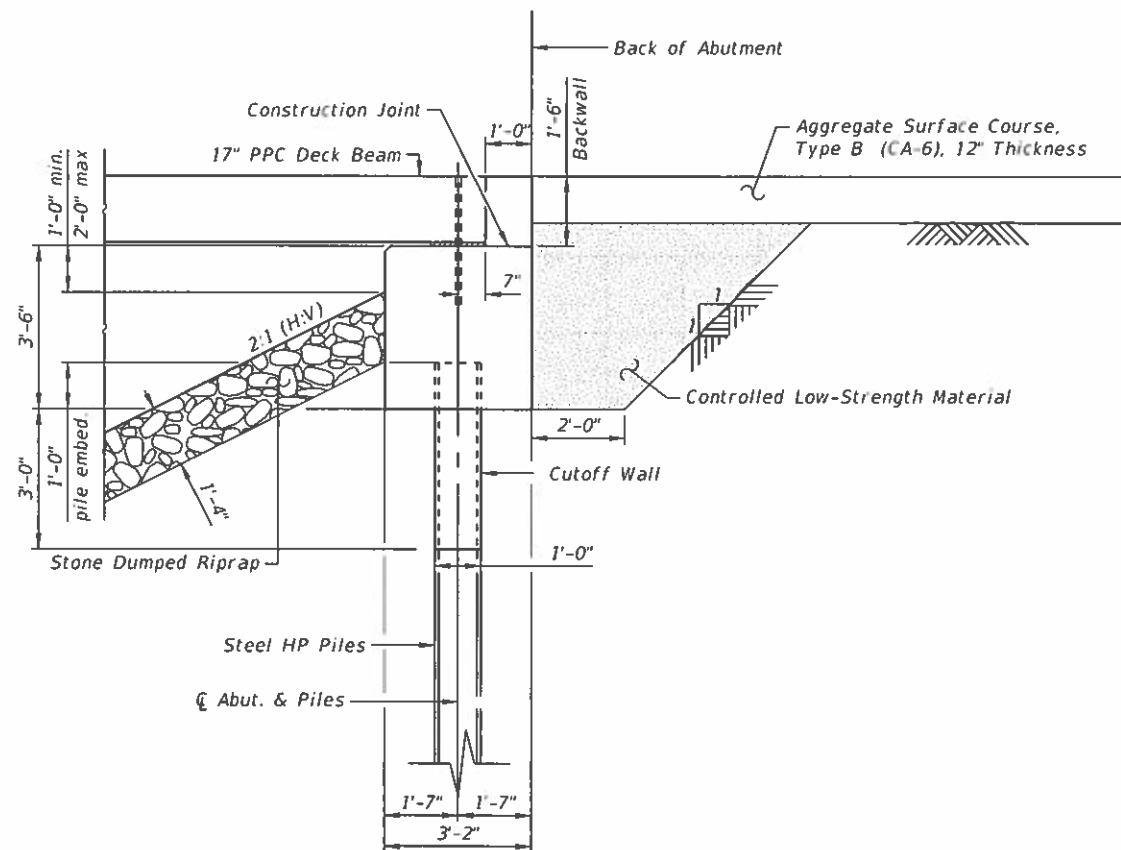
NAME PLATE
 See Std. 515001.
 Plate to be installed
 on southwest wingwall.

TOTAL BILL OF MATERIALS

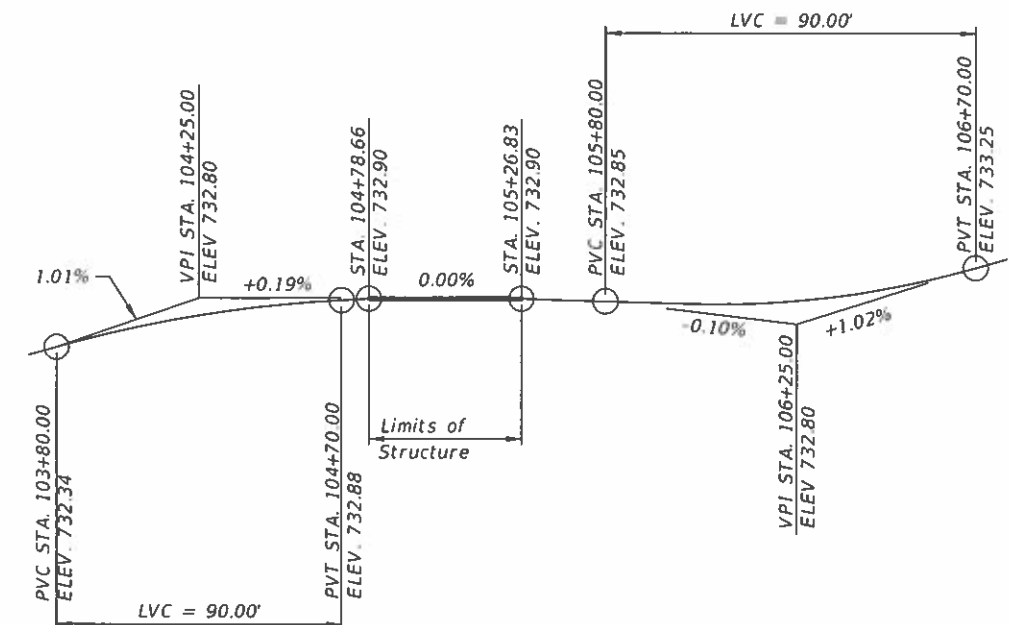
ITEM	UNIT	QUANTITY
Channel Excavation	134	Cu. Yd.
Structure Excavation	65.1	Cu. Yd.
Concrete Structures	28.3	Cu. Yd.
Precast Prestressed Concrete Deck Beams (17" Depth)	1,247	Sq. Ft.
Reinforcement Bars, Epoxy Coated	3,120	Pound
Steel Railing, Type S1	93	Foot
Furnishing Steel Piles HP 12x53	248	Foot
Driving Piles	248	Foot
Test Pile Steel HP 12x53	2	Each
Piles Shoes	10	Each
Name Plates	1	Each
Controlled Low-Strength Material	43.0	Cu. Yd.
Stone Dumped Riprap, Class A4 (Special)	327	Ton
Removal of Existing Structures (Special)	1	Each
Concrete Cut-off Wall	6.4	Cu. Yd.



SECTION A-A



SECTION THRU ABUTMENT



TR15 PROFILE GRADE
 (along centerline of roadway)



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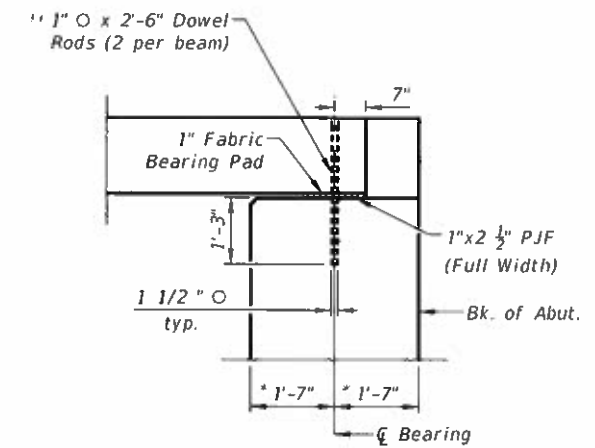
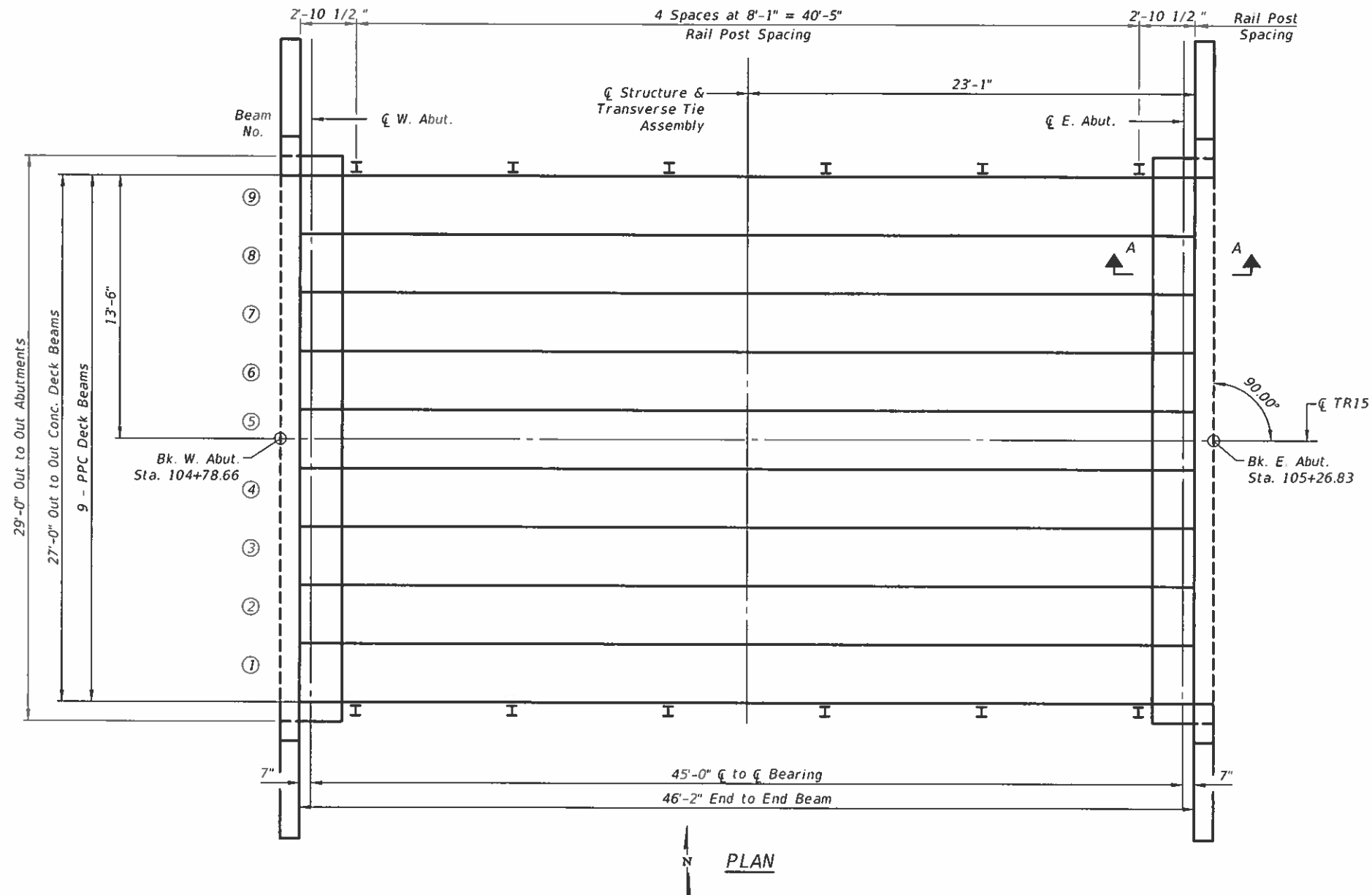
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PLLOT SCALE = 4.0000" = 1' 0"	DRAWN - K. KOLODZIECZYK	REVISED -
PLLOT DATE = 5/12/2020	CHECKED - M. LANGE	REVISED -
	DATE - APRIL 17TH, 2020	REVISED -

**STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION**

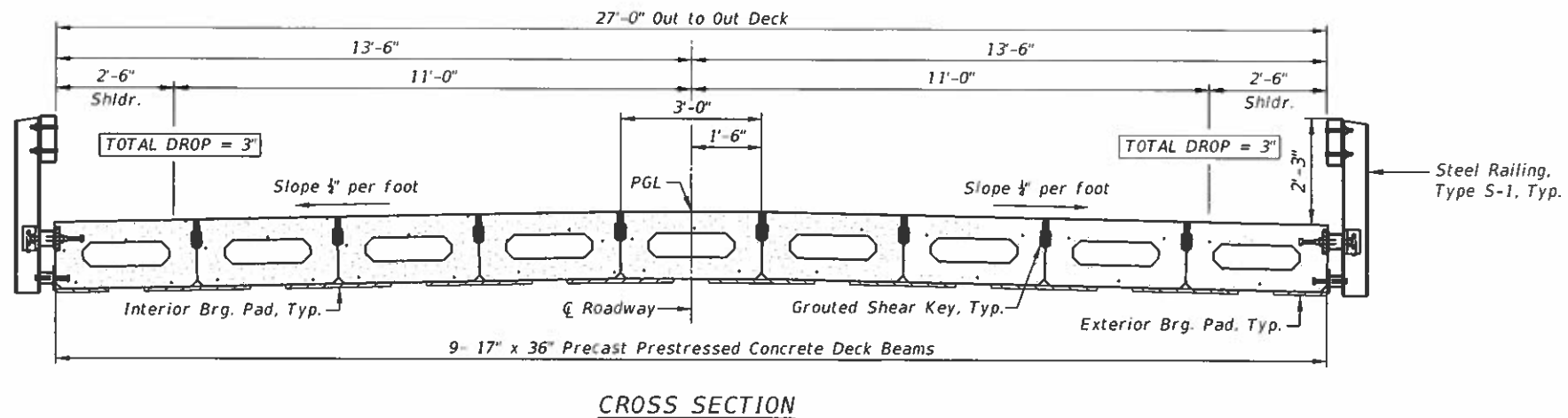
**GENERAL DATA
 STRUCTURE NO. 092-3538**

SCALE: N.T.S. SHEET 2 OF 15 SHEETS STA. TO STA.

TWP. RD. 15	SECTION 17-02154-00-BR	COUNTY VERMILION	TOTAL SHEETS 32	SHEET NO. 13
CONTRACT NO. 91595				
ILLINOIS FED. AID PROJECT: ALP61667				



* Perpendicular to the ζ of Abutment
 **Dowel rods to be grouted after beams are in place and prior to grouting the shear keys.



NOTES

See Sheet 13 for Bill of Materials.
 See Sheet 15 and 16 for superstructure details.
 See Sheet 17 for railing details.

M0941: 1/14/20
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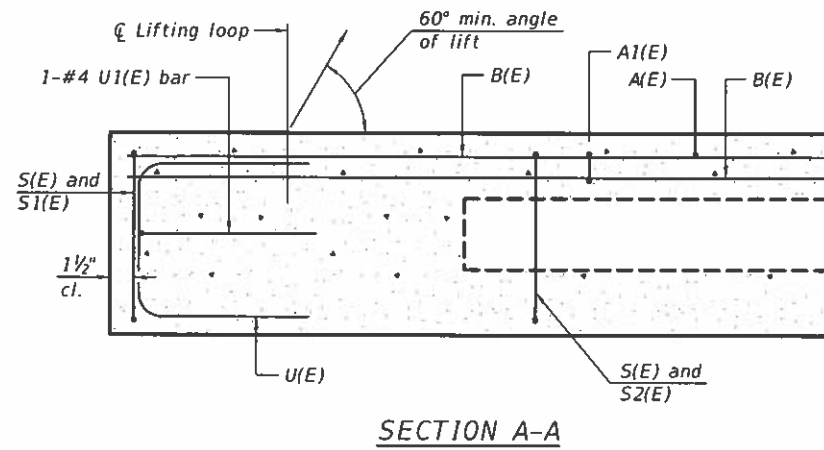
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	DRAWN - K. KOLODZIECZYK	REVISED -
PLOT SCALE = 3/8"=1'-0" (1/4" = 1')	CHECKED - M. LANGE	REVISED -
PLOT DATE = 5/11/2020	DATE - APRIL 17TH, 2020	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

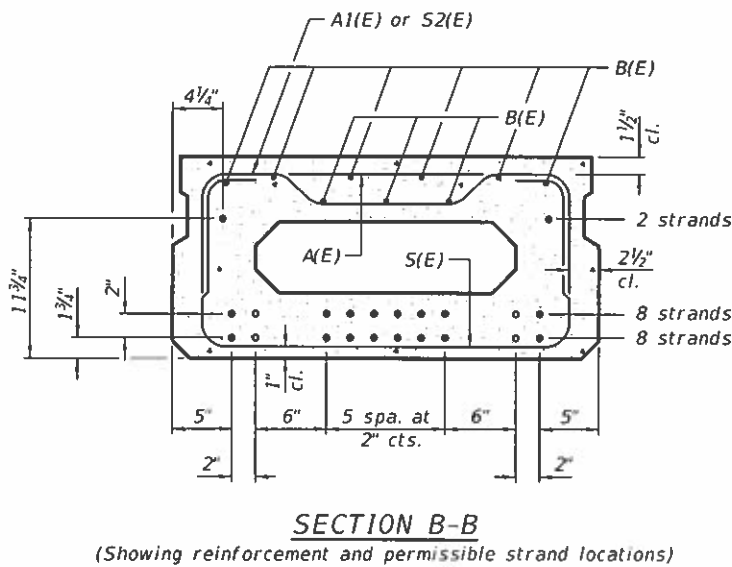
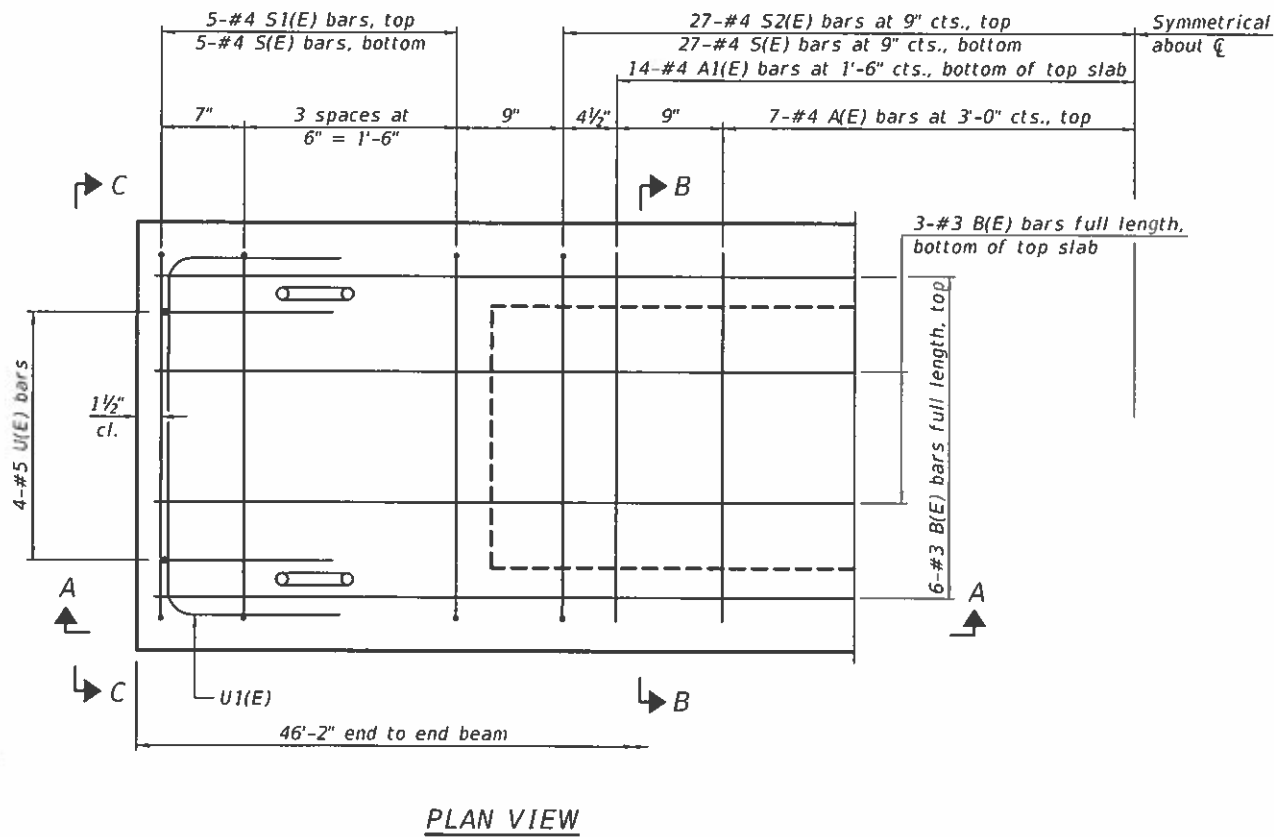
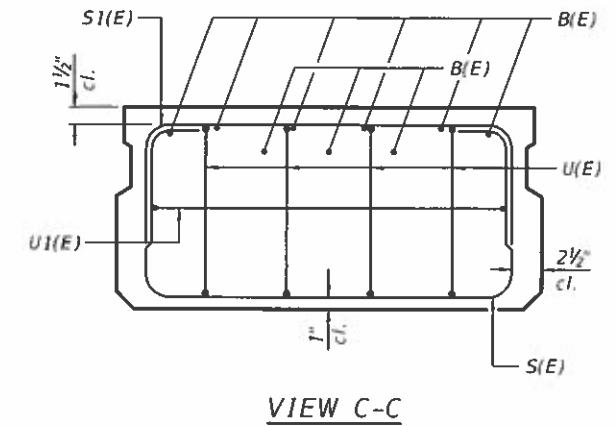
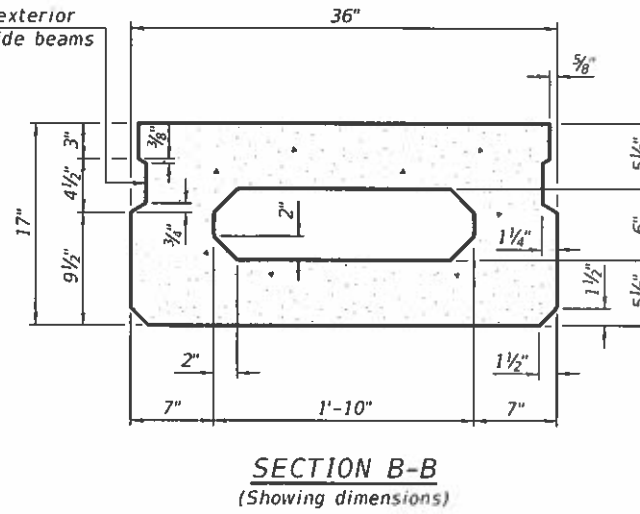
SUPERSTRUCTURE
STRUCTURE NO. 092-3538

SCALE: N.T.S. SHEET 3 OF 15 SHEETS STA. TO STA.

TWP. RD.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
15	17-02154-00-BR	VERMILION	32	14
CONTRACT NO. 91595			ILLINOIS FED. AID PROJ. CT. ALPEI667	



Omit key on exterior
face of outside beams



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)	14	#4	2'-7"	—
A1(E)	28	#4	2'-10"	~
B(E)	9	#3	45'-10"	—
S(E)	58	#4	5'-9"	U
S1(E)	10	#4	4'-3"	U
S2(E)	58	#4	4'-6"	U
U(E)	8	#5	3'-8"	C
U1(E)	2	#4	5'-0"	U

Note:
See sheet 13 for additional details and Bill of Material.

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.

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

PD-1736-0

1-1-2020

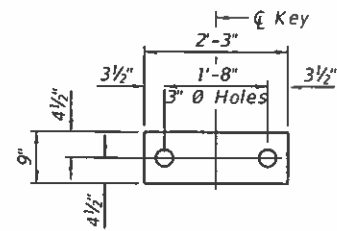
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	DRAWN - K. KOLODZIECZYK	REVISED -
PLOT SCALE = 1:0.0000 1" = 1'	CHECKED - M. LANGE	REVISED -
PLOT DATE = 5/1/2020	DATE - APRIL 17TH, 2020	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

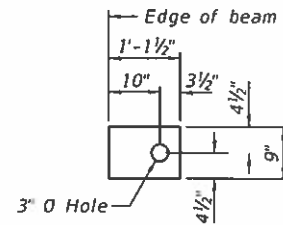
SUPERSTRUCTURE DETAILS I
STRUCTURE NO. 092-3538

SCALE: N.T.S. SHEET 4 OF 15 SHEETS STA. TO STA.

TWP. RD.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
15	17-02154-00-BR	VERMILION	32	15
CONTRACT NO. 91595				
ILLINOIS FED. AID PROJECT: ALPE16671				



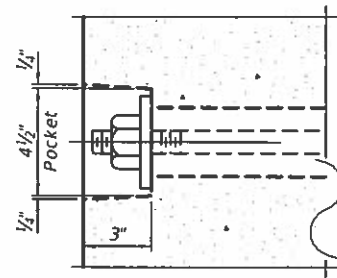
FABRIC BEARING PAD
(Interior)



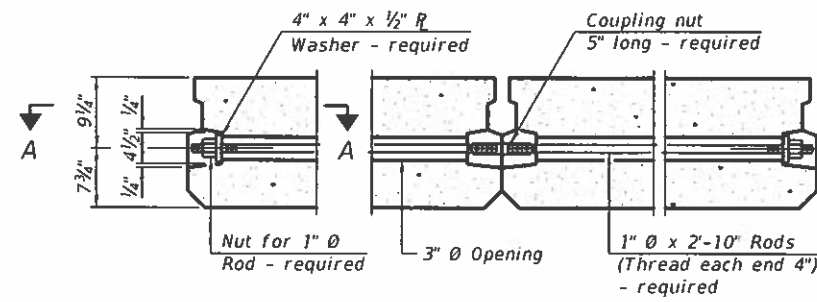
FABRIC BEARING PAD
(Exterior)

FIXED

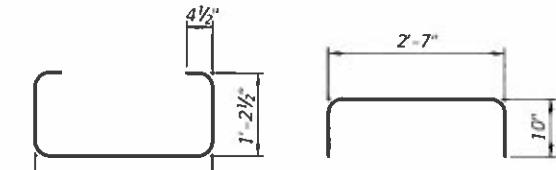
Notes:
All bearing pads shall be 1" thick.
Omit holes when using expansion bearings.
Expansion bearing pads shall be bonded to the substructure.



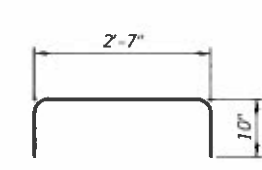
SECTION A-A



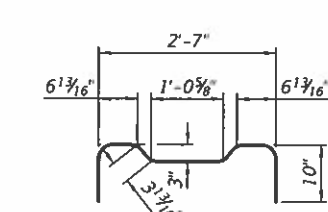
TYPICAL TRANSVERSE TIE ASSEMBLY



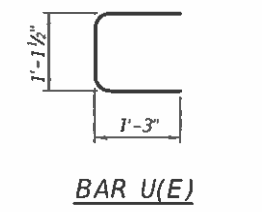
BAR S(E)



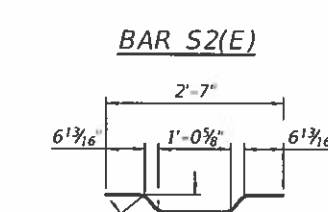
BAR S1(E)



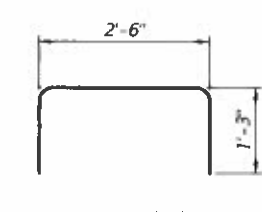
BAR U(E)



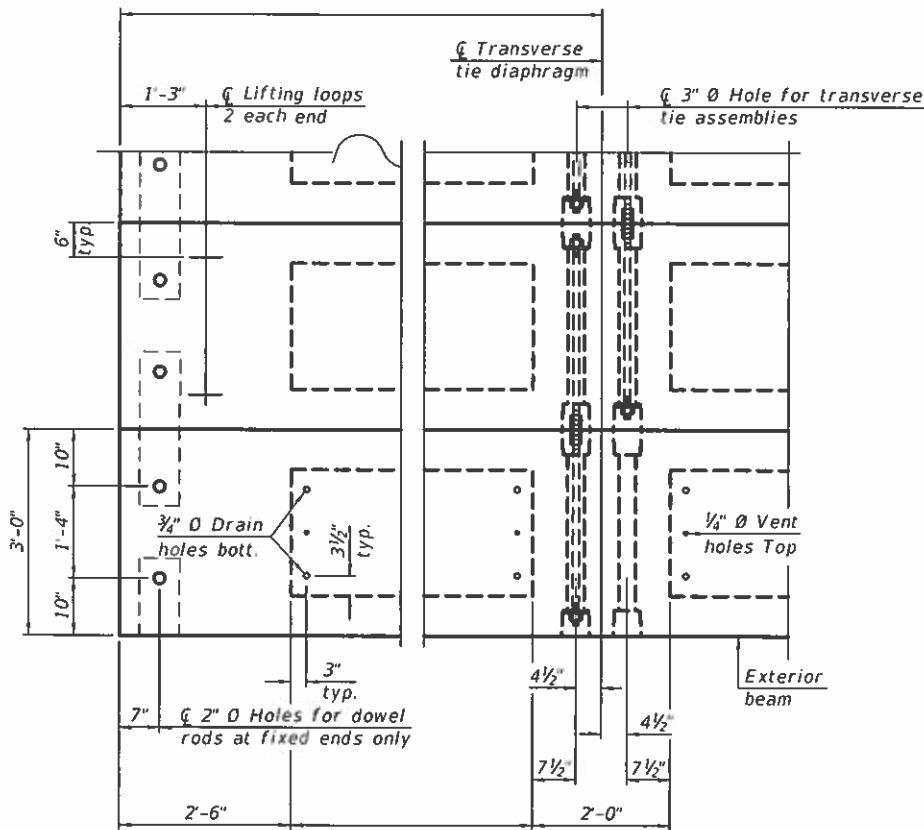
BAR U1(E)



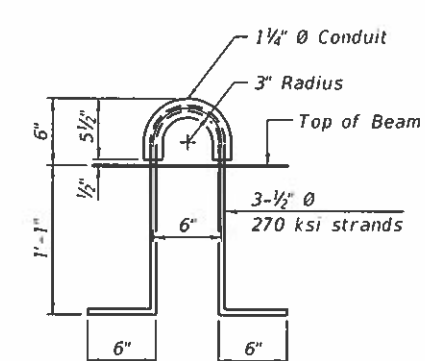
BAR A1(E)



BAR U1(E)



PLAN VIEW



LIFTING LOOP DETAIL

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" diameter 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" diameter 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.

BILL OF MATERIAL

Precast Prestressed Conc. Deck Bms. (17" depth)	Sq. Ft.	1,247
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PDD-1736-0 1-1-2020

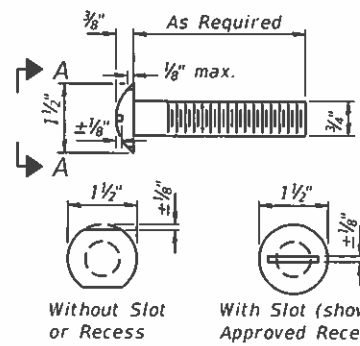
USER NAME	DESIGNED - K. KOLODZIEJCZYK	REVISED -
DRAWN - K. KOLODZIEJCZYK	REVISED -	
CHECKED - M. LANGE	REVISED -	
DATE - APRIL 17TH, 2020	REVISED -	

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

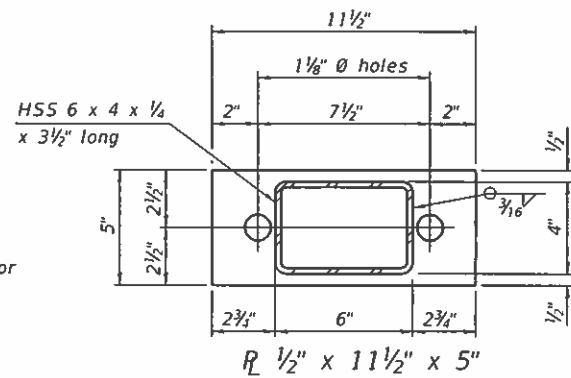
SUPERSTRUCTURE DETAILS II
STRUCTURE NO. 092-3538

SCALE: N.T.S. SHEET 5 OF 15 SHEETS STA. TO STA.

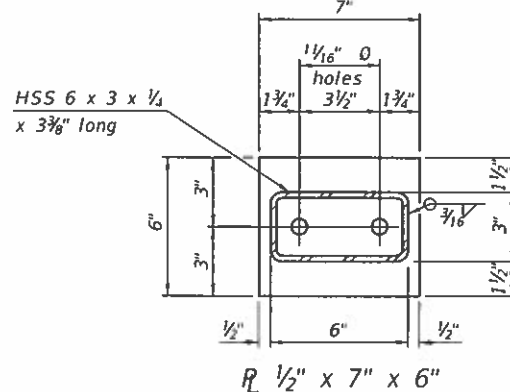
TWP. RD.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
15	17-02154-00-BR	VERMILION	32	16
CONTRACT NO. 91595				
ILLINOIS FED. AID PROJECT: ALPE(687)				



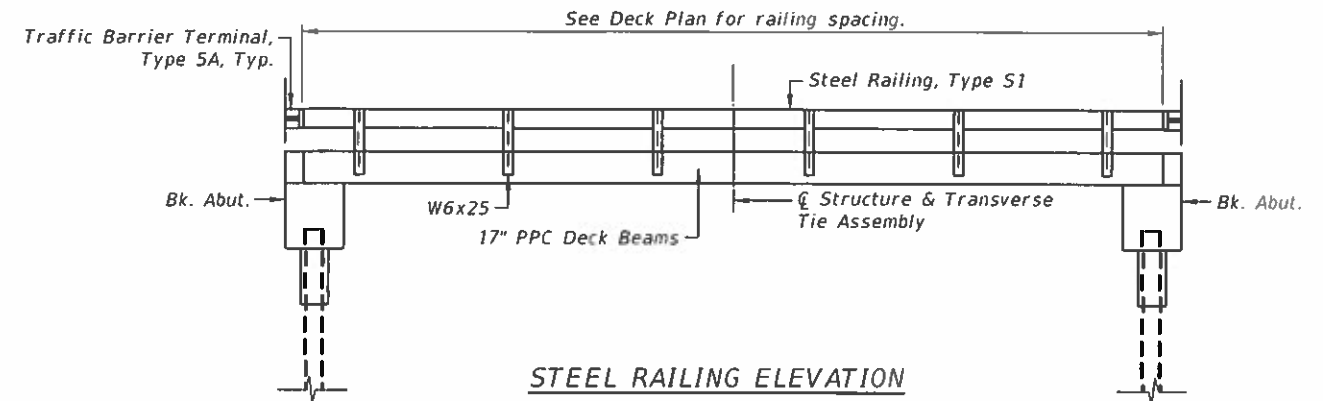
**VIEW A-A
ROUND HEAD BOLT**



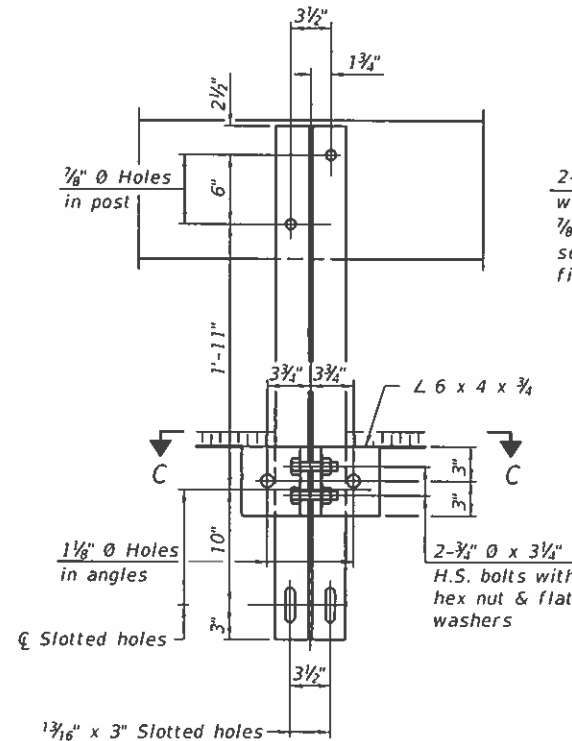
R 1/2" x 11 1/2" x 5"



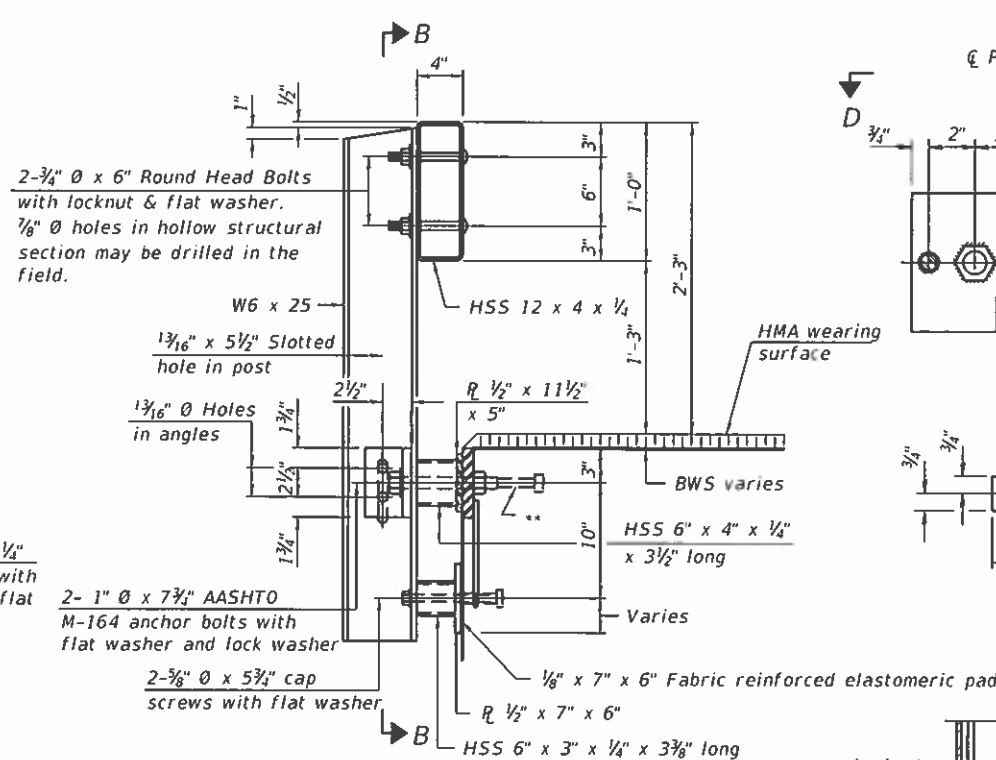
R 1/2" x 7" x 6"



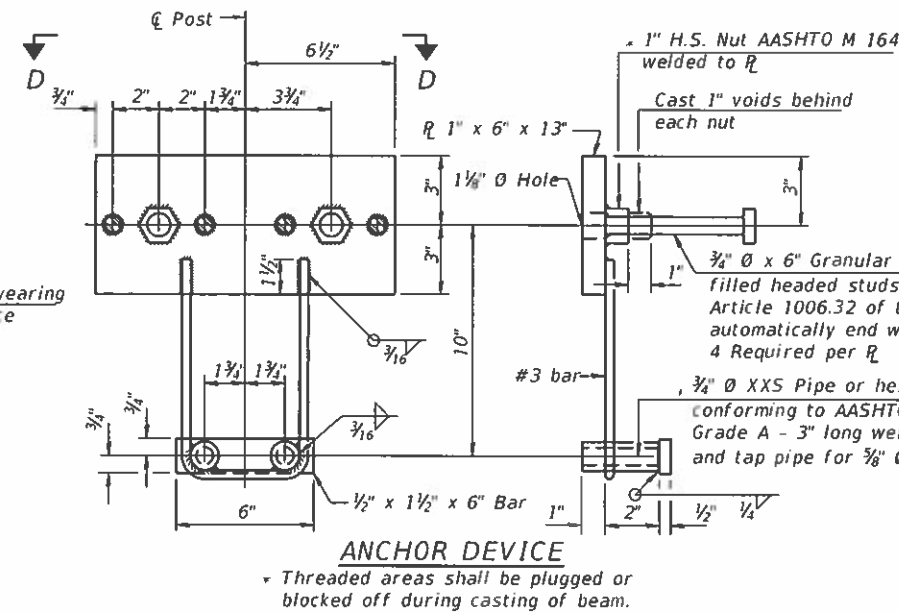
**STEEL RAILING ELEVATION
(10'-9" Maximum Post Spacing)**



SECTION B-B



SECTION AT RAILING POST



ANCHOR DEVICE

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

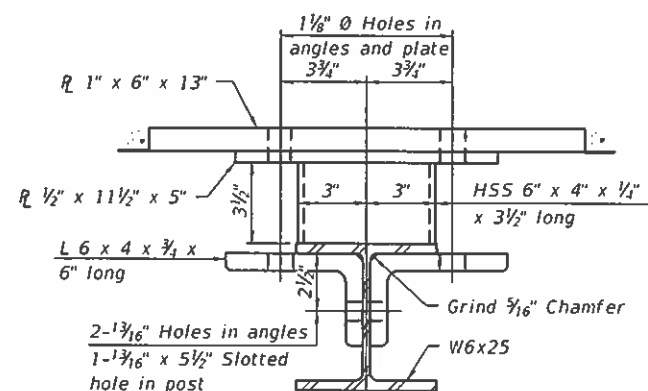
SPLICE DIMENSIONS

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	1/2"	1'-8"	2"	4"	

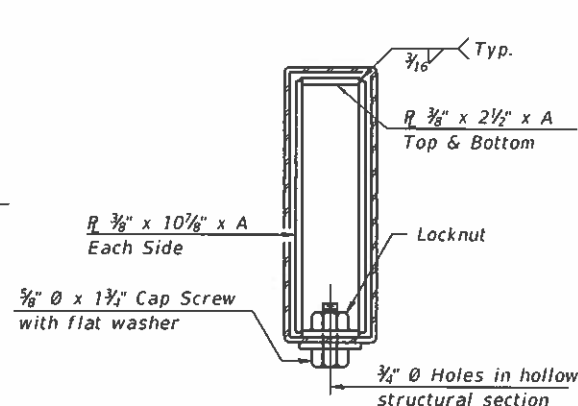
T = Total movement at expansion joint as shown on the design plans.

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 S-1.
All steel rail elements shall be galvanized according to Article 509.05 of the Standard Specifications.

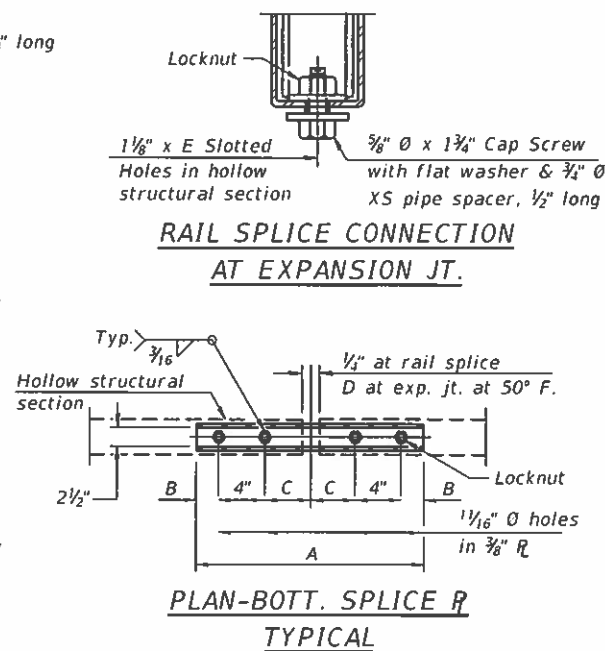
**The studs of the anchor devices shall be placed below the top reinforcement bars and the outermost longitudinal reinforcement bar shall be placed directly above the studs of the rail post anchor device. The anchorage studs may be bent down 1/2" to accommodate the top reinforcement bar placement.



SECTION C-C

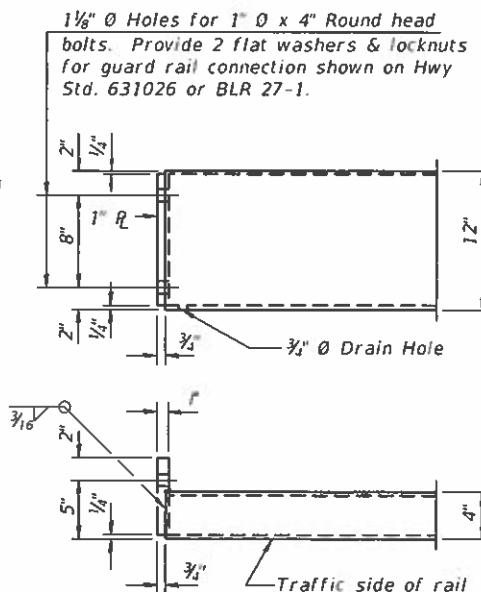


SECTIONS AT RAIL SPLICE

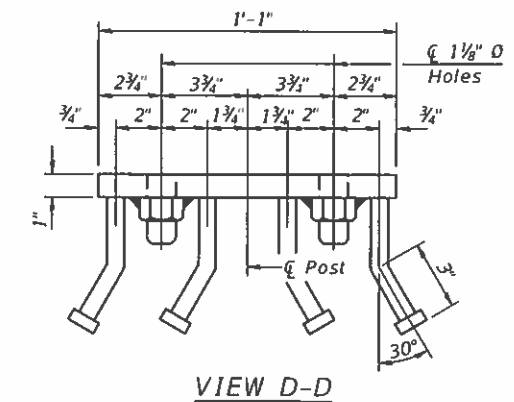


**RAIL SPLICE CONNECTION
AT EXPANSION JT.**

**PLAN-BOTT. SPLICE R
TYPICAL**



END OF RAIL DETAILS



VIEW D-D

BILL OF MATERIAL

Item	Unit	Quantity
Steel Railing, Type S-1	Foot	93

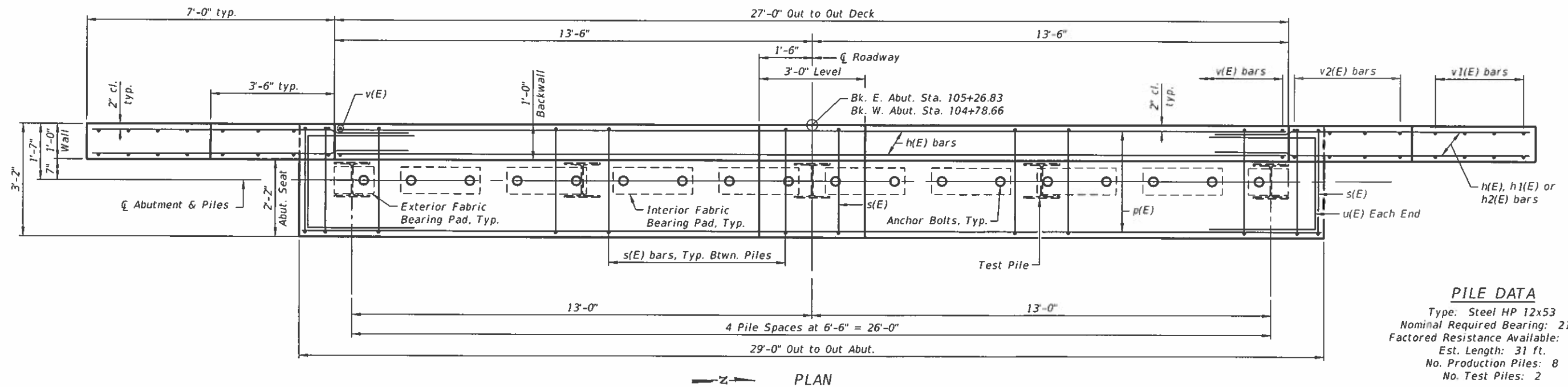
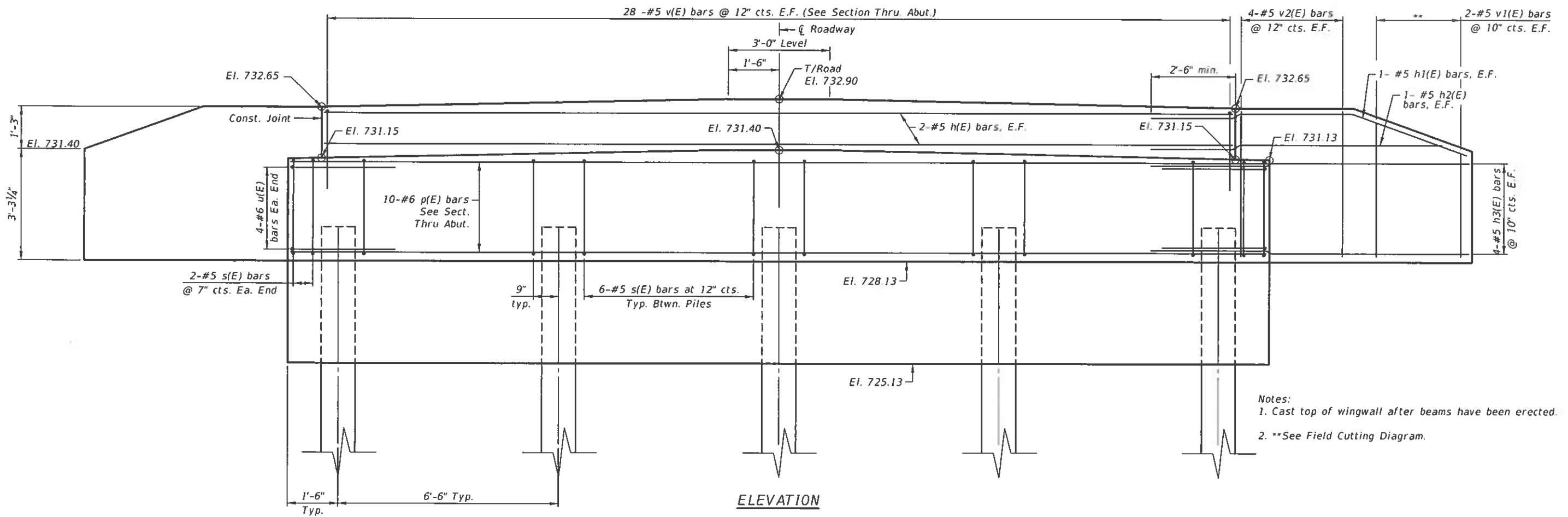
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PLOT SCALE = 5:0.0000 1" = 10'	DRAWN - K. KOLODZIECZYK	REVISED -
PLOT DATE = 5/1/2020	CHECKED - M. LANGE	REVISED -
	DATE - APRIL 17TH, 2020	REVISED -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**STEEL RAILING TYPE S-1
STRUCTURE NO. 092-3538**

SCALE: N.T.S. SHEET 6 OF 15 SHEETS STA. TO STA.

TWP. RD.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
15	17-02154-00-BR	VERMILION	32	17
CONTRACT NO. 91595				
ILLINOIS FED. AID PROJECT: ALPE(687)				



PILE DATA
 Type: Steel HP 12x53
 Nominal Required Bearing: 218k
 Factored Resistance Available: 120k
 Est. Length: 31 ft.
 No. Production Piles: 8
 No. Test Piles: 2

NOTED: 1/24/20
 FILE NAME: C:\Users\mrange\OneDrive\Documents\CADD\037_Abument_Details.rvt

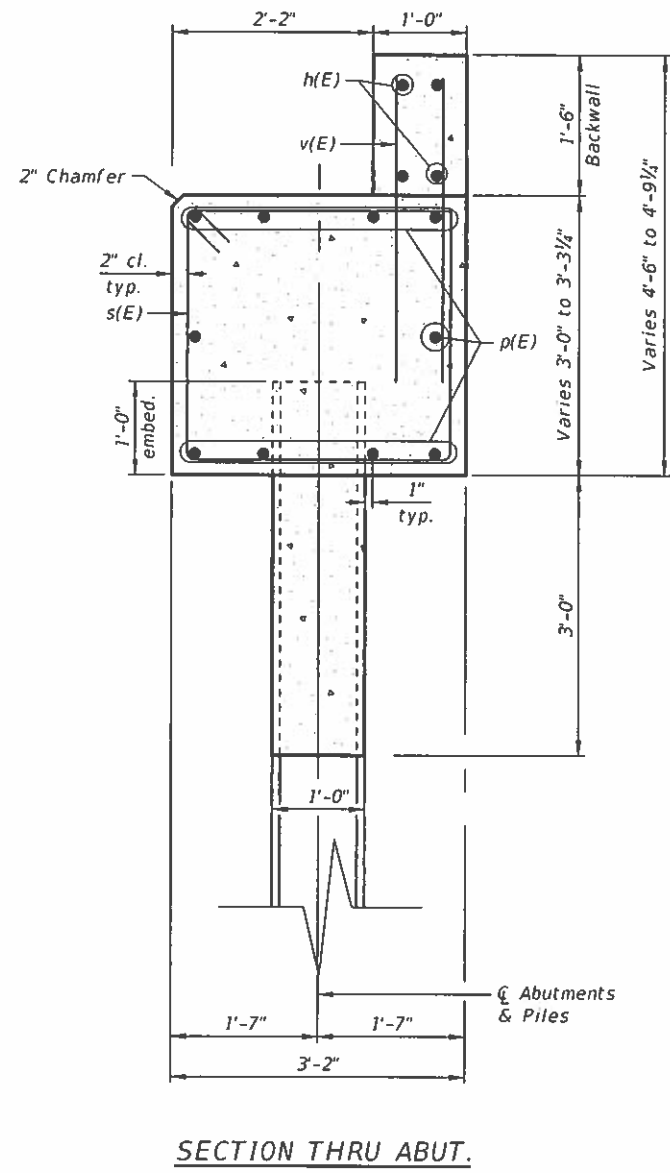
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	DRAWN - K. KOLODZIECZYK	REVISED -
PLOT SCALE = 1:6,0000 1" = 1 ft.	CHECKED - M. LANGE	REVISED -
PLOT DATE = 5/1/2020	DATE - APRIL 17TH, 2020	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

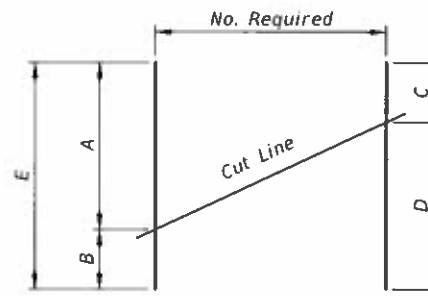
ABUTMENT DETAILS I
STRUCTURE NO. 092-3538

SCALE: 1:6,000 1" = 1 ft. SHEET 7 OF 15 SHEETS STA. TO STA.

TWP. RD.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
15	17-02154-00-BR	VERMILION	32	18
CONTRACT NO. 91595				
ILLINOIS FED. AID PROJECT: ALPE1667				



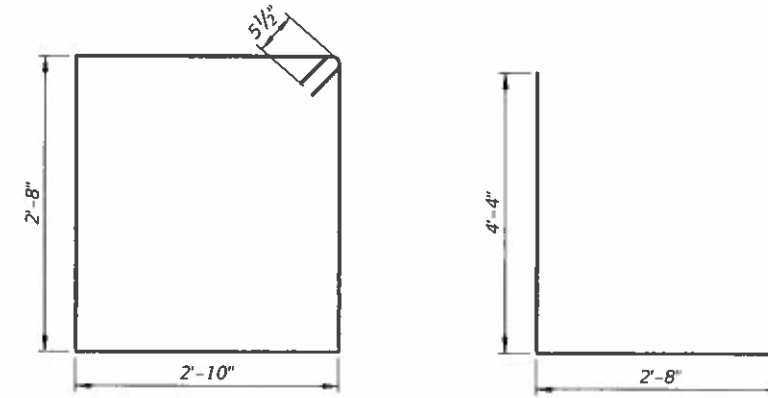
SECTION THRU ABUT.



FIELD CUTTING DIAGRAM

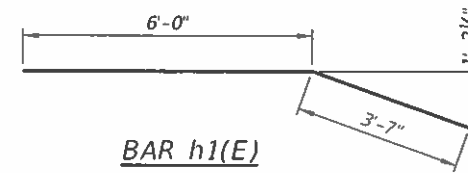
Order v1(E) full length. Cut as shown and use remainder of bars in opposite face.

Bar	No.	A	B	C	D	E
v1(E)	2	3'-10"	3'-0"	3'-7"	3'-3"	6'-10"



BAR s(E)

BAR u(E)



BAR h1(E)

BILL OF MATERIAL

(Two Abutments)

Bar	No.	Size	Length	Shape
h(E)	8	#5	26'-8"	—
h1(E)	8	#5	9'-7"	—
h2(E)	8	#5	8'-7"	—
h3(E)	32	#5	8'-6"	—
p(E)	20	#6	28'-8"	—
s(E)	56	#5	11'-11"	□
u(E)	16	#6	11'-4"	U
v(E)	112	#5	3'-3"	—
v1(E)	16	#5	6'-10"	—
v2(E)	32	#5	4'-2"	—
Structure Excavation			Cu. Yd.	65.1
Concrete Structures			Cu. Yd.	28.3
Reinforcement Bars, Epoxy Coated			Pound	3,120
Furnishing - Piles, Steel HP 12x53			Foot	248
Driving Piles			Foot	248
Pile Shoes			Each	5
Test Pile, Steel HP 12x53			Each	2
Controlled Low Strength Material			Cu. Yd.	43.0
Concrete Cut Off Wall			Cu. Yd.	6.4

M0191 - 10.dwg
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 17-APR-2020 10:00 AM

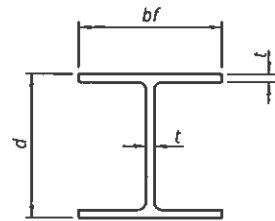
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	DRAWN - K. KOLODZIECZYK	REVISED -
PLOT SCALE = 1:0.0000 1" = 1'	CHECKED - M. LANGE	REVISED -
PLOT DATE = 5/1/2020	DATE - APRIL 17TH 2020	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

ABUTMENT DETAILS II
STRUCTURE NO. 092-3538

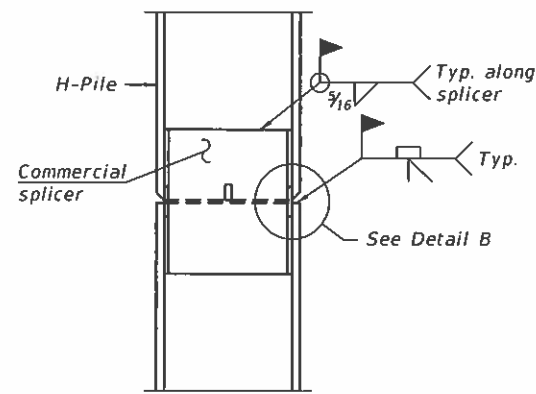
SCALE: N.T.S. SHEET 8 OF 15 SHEETS STA. TO STA.

TWP. RD. 15	SECTION 17-02154-00-BR	COUNTY VERMILION	TOTAL SHEETS 32	SHEET NO. 19
ILLINOIS FED. AID PROJECT: ALPE(667)			CONTRACT NO. 91595	

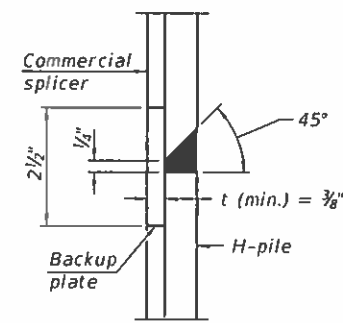


STEEL PILE TABLE

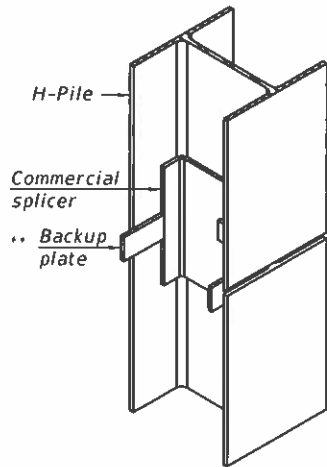
Designation	Depth d	Flange width bf	Web and Flange thickness t	Encasement diameter A
HP 14x117	14 1/4"	14 7/8"	1 3/16"	30"
x102	14"	14 3/4"	1 1/16"	30"
x89	13 3/8"	14 3/4"	5/8"	30"
x73	13 3/8"	14 3/8"	1/2"	30"
HP 12x84	12 1/4"	12 1/4"	1 1/16"	24"
x74	12 1/8"	12 1/4"	5/8"	24"
x63	12"	12 1/8"	1/2"	24"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



ELEVATION

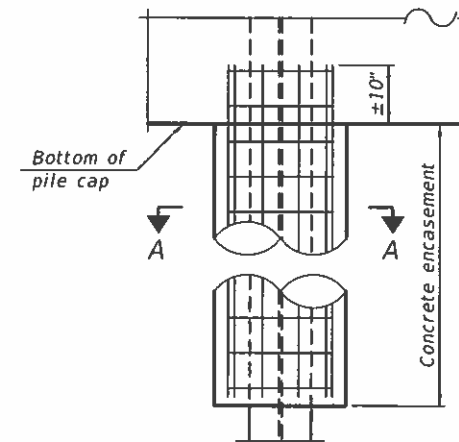


DETAIL "B"

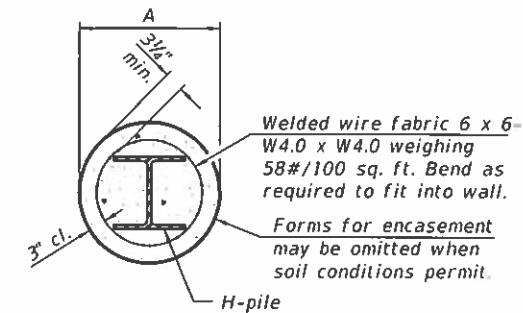


ISOMETRIC VIEW

WELDED COMMERCIAL SPLICE

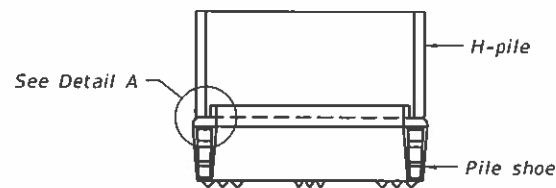


ELEVATION

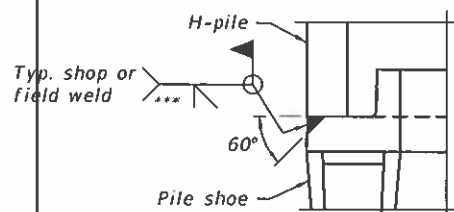


SECTION A-A

INDIVIDUAL PILE CONCRETE ENCASMENT (when specified)

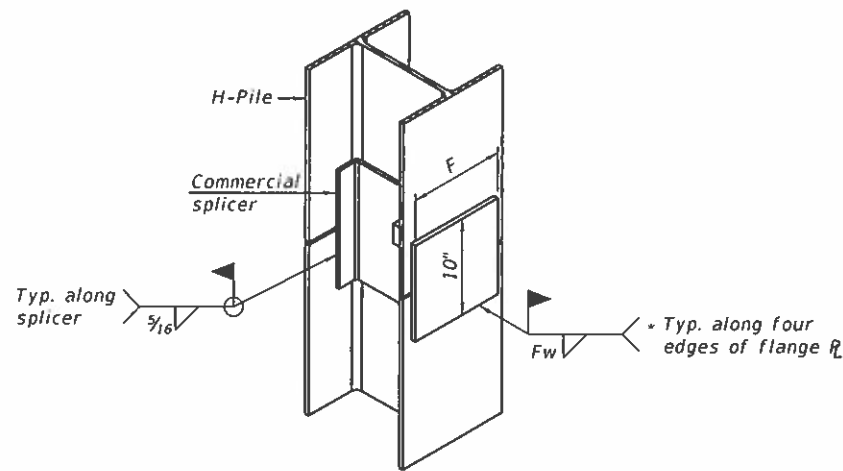


ELEVATION



DETAIL A

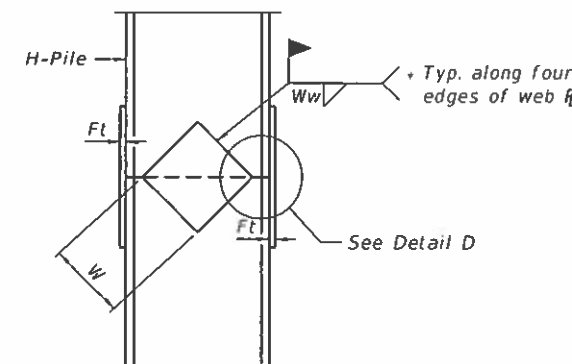
SHOE ATTACHMENT



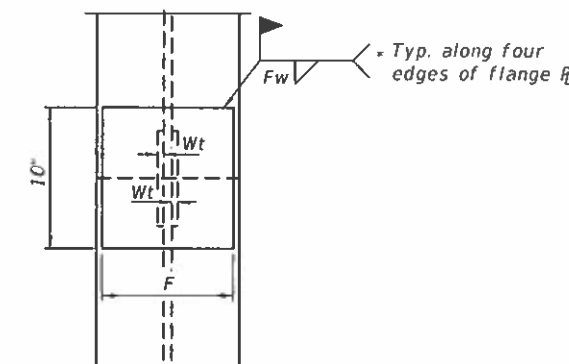
ISOMETRIC VIEW

WELDED COMMERCIAL SPLICE ALTERNATE

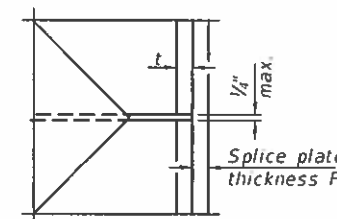
- * Interrupt welds 1/4" from end of web and/or each flange.
- ** Remove portions of backup plates that extend outside the flanges.
- *** Weld size per pile shoe manufacturer (3/16" min.).



ELEVATION



END VIEW



DETAIL D

WELDED PLATE FIELD SPLICE

Designation	F	Ft	Fw	W	Wt	Ww
HP 14x117	12 1/2"	1"	7/8"	7 3/4"	5/8"	1/2"
x102	12 1/2"	3/8"	3/4"	7 3/4"	5/8"	1/2"
x89	12 1/2"	3/4"	1 1/16"	7 3/4"	5/8"	1/2"
x73	12 1/2"	5/8"	9/16"	7 3/4"	5/8"	1/2"
HP 12x84	10"	7/8"	1 1/16"	6 1/2"	5/8"	1/2"
x74	10"	7/8"	1 1/16"	6 1/2"	5/8"	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

1-1-2020

USER NAME = mlange	DESIGNED - K. KOLODZIEJCZYK	REVISED -
PLOT SCALE = 1:10,000 @ 1" = 100'	DRAWN - K. KOLODZIEJCZYK	REVISED -
PLOT DATE = 5/1/2020	CHECKED - M. LANGE	REVISED -
	DATE - APRIL 17TH, 2020	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

HP PILE DETAILS
STRUCTURE NO. 092-3538

SCALE: N.T.S. SHEET 9 OF 15 SHEETS STA. TO STA.

TWP. RD.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
15	17-02154-00-BR	VERMILION	32	20
CONTRACT NO. 91595				
ILLINOIS FED. AID PROJECT ALPE(667)				



BRIDGE FOUNDATION SOIL BORING LOG

MET Midwest Engineering and Testing, Inc.

Route: TR 15 over Whiskey Creek
Section: 17-02154-00-BR
County: Vermilion
Structure No. 092-3538
Station: 105+26.83
Offset: 6' N. of C.L.

Boring: B-1
Page: Page 1 of 2
Date of Boring: February 5, 2019
Drilled By: Zach Wilcoxon
Checked By: Nick Wendling, PE
MET Project No: 93010

Table with columns for Depth (ft.), Blows (6"), Qu (tsf), MC (%), and Soil Description. Includes data for Crushed Stone, silty clay, and silty clay with sand and small gravel.

N - Standard Penetration Test (SPT) = Sum of last two blow values in sample
MC- Moisture Content - Percent of dry weight
Qu- Unconfined Compressive Strength- tons per square foot (tsf)
Type Failure Qu test B-Bulge S-Shear P-Penetrometer

BRIDGE FOUNDATION SOIL BORING LOG

MET Midwest Engineering and Testing, Inc.

Route: TR 15 over Whiskey Creek
Section: 17-02154-00-BR
County: Vermilion
Structure No. 092-3538
Station: 09+84
Offset: 6' N. of C.L.

Boring: B-1
Page: Page 2 of 2
Date of Boring: February 5, 2019
Drilled By: Zach Wilcoxon
Checked By: Nick Wendling, PE
MET Project No: 93010

Table with columns for Depth (ft.), Blows (6"), Qu (tsf), MC (%), and Soil Description. Includes data for Gray silty clay with sand and small gravel.

N - Standard Penetration Test (SPT) = Sum of last two blow values in sample
MC- Moisture Content - Percent of dry weight
Qu- Unconfined Compressive Strength- tons per square foot (tsf)
Type Failure Qu test B-Bulge S-Shear P-Penetrometer

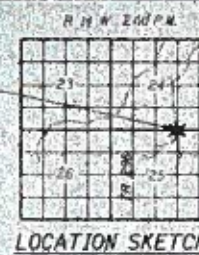
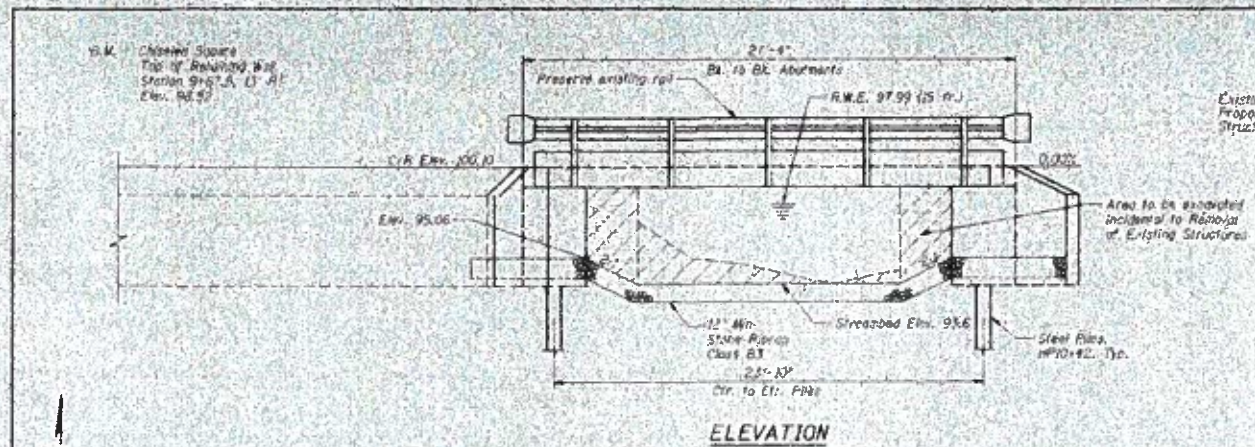
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Table with columns for USER NAME, DESIGNED, DRAWN, CHECKED, PLOT SCALE, PLOT DATE, DATE, and REVISIONS.

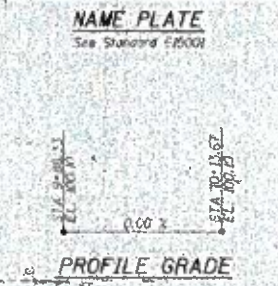
STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION

SOIL BORINGS I STRUCTURE 092-3538

Table with columns for TWP RD., SECTION, COUNTY, TOTAL SHEETS, SHEET NO., SCALE, N.T.S., SHEET 10 OF 15 SHEETS, STA., TO STA., ILLINOIS FED. AID PROJECT: ALPE1667



NAME PLATE
See Station 43000



DESIGN SPECIFICATIONS
AASHTO (1998) and applicable Interim (1997) - (1998)

ABUT DESIGN LOADING
HS 20-44
25 F.S.F. Future Heavy Surface

DESIGN STRESSES
 $f_c = 3,500$ psi (Cast in Place Concrete)
 $f_s = 60,000$ psi (Reinforcement)

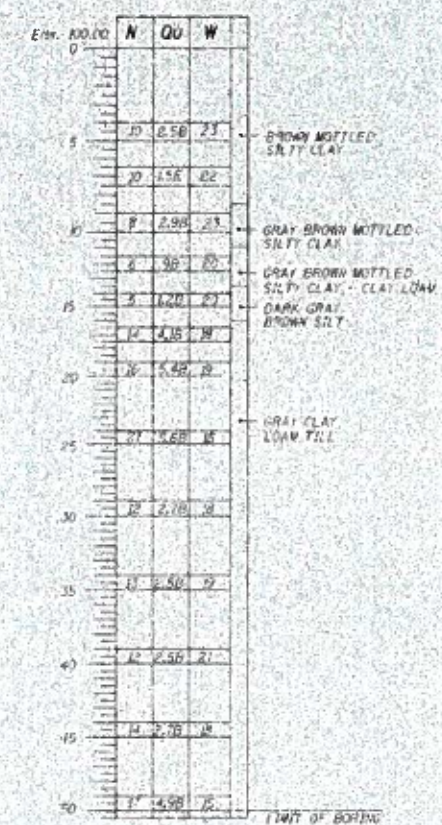
WATERWAY DATA

Drainage Area	0.54 Sq. Mi.
Existing Opening (15 Yr.)	49.8 Sq. Ft.
Required Opening (15 Yr.)	76.2 Sq. Ft.
Proposed Opening (15 Yr.)	85 Sq. Ft.
Design Discharge (15 Yr.)	180 C.F.S.
Computed Discharge (100 Yr.)	287 C.F.S.
15 Yr. Head	0 Ft.
100 Yr. Head	0.06 Ft.

BORING DATA

N - Standard Penetration Test - Blows per Foot to drive 2" G.D.
 Q_u - Split Spore sampler (2") with 140 lb. hammer falling 30"
 Q_u - Uncor. Bed Compressive Strength - Tons/Sq. Ft.
 W - Water Content - Percentage of even dry weight
 S - Duge Failure, S - Shear Failure, S - Estimated Value

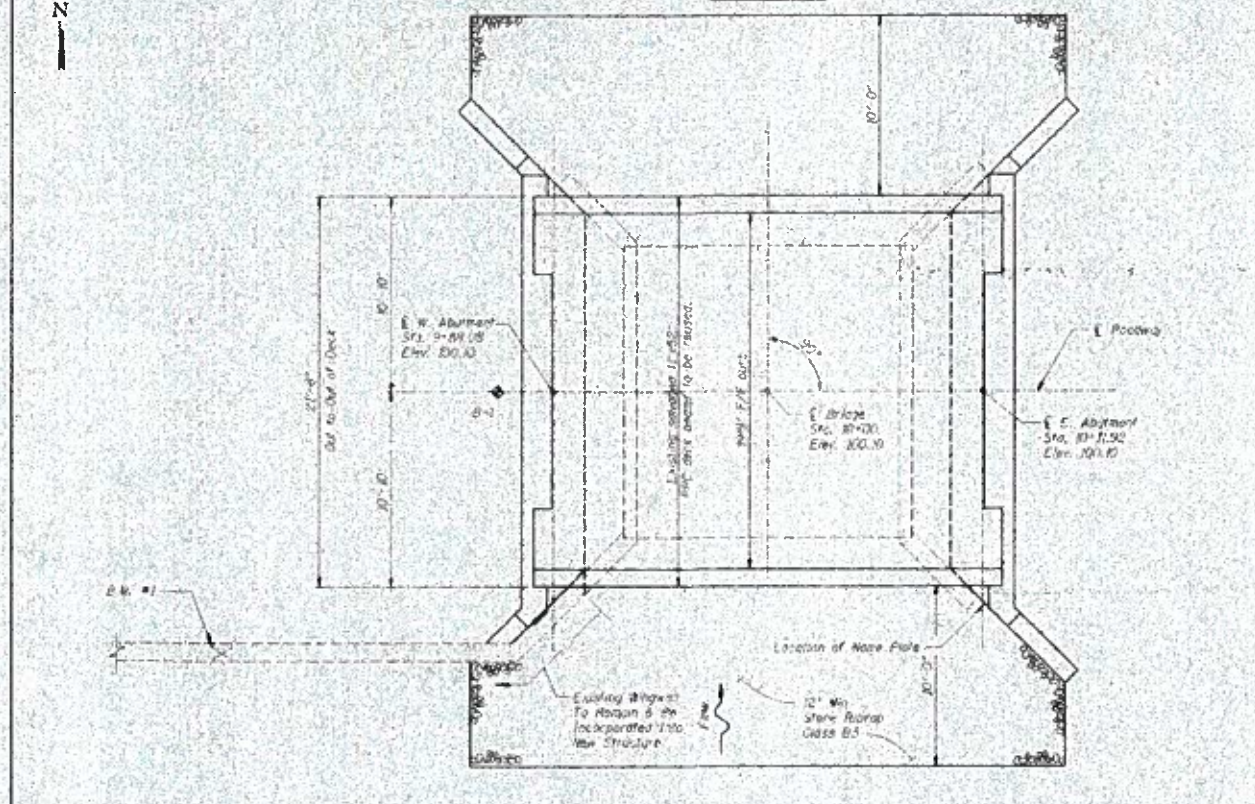
Blow No.	Blow Count	Penetration	Q _u	W	S
1	10	1.56	23		
2	10	1.56	22		
3	10	2.98	21		
4	10	3.96	20		
5	10	4.20	20		
6	10	4.15	19		
7	10	4.42	18		
8	10	4.42	18		
9	10	2.76	18		
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11	10	2.50	17		
12	10	2.76	16		
13	10	2.50	15		
14	10	2.76	14		
15	10	4.58	12		



BORING B-1
STA 9+85.0 RT

TOTAL BILL OF MATERIAL

ITEM	UNIT	SUPER	SUB	TOTAL
Repair of Existing Structures	Sq. ft.	1		1
Erecting Salvaged Precast Prestressed Concrete Deck Beams	Sq. ft.	637		637
Concrete Structures	Cu. Yds.		58.4	58.4
Steel Piles, #10x42	Foot		288	288
Steel Piles, Steel #10x42	Foot		2	2
Steel Shells	Sq. Yds.		8	8
Cure, Cut-off Wall	Sq. Yds.		4.3	4.3
Stone Drilled Pier, Class B1	Ton		67	67
House Plate	Each		1	1
Reinforcement Bars	Pound		3690	3690
Structure Encasement	Cu. Yds.		15.4	15.4



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. This design is an approximate one for the type of structure and complies with the requirements of the current AASHTO Standard Specifications for Highway Bridges.

Keith E. Brandau
 KEITH E. BRANDAU
 Illinois Licensed Structural Engineer Number #305
 License Expires 11/30/00

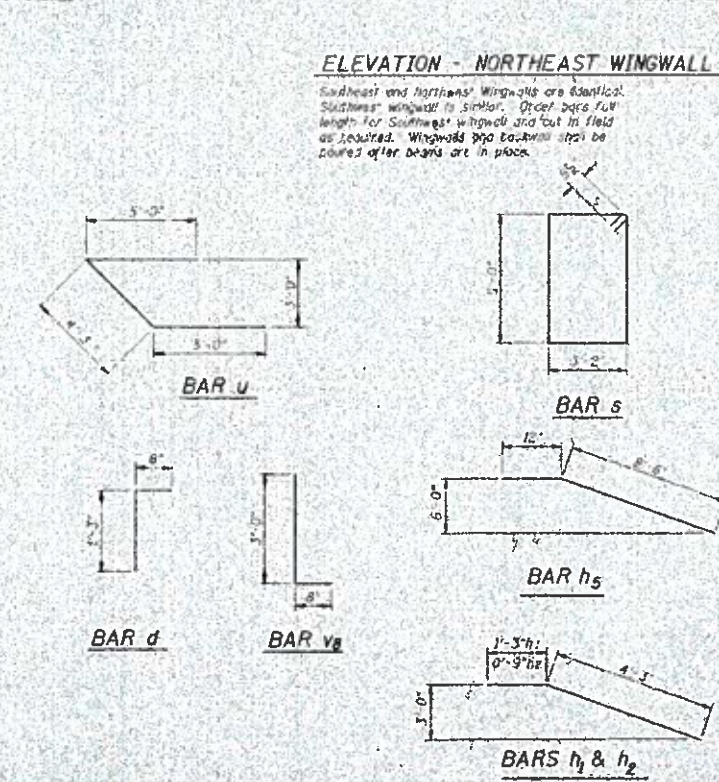
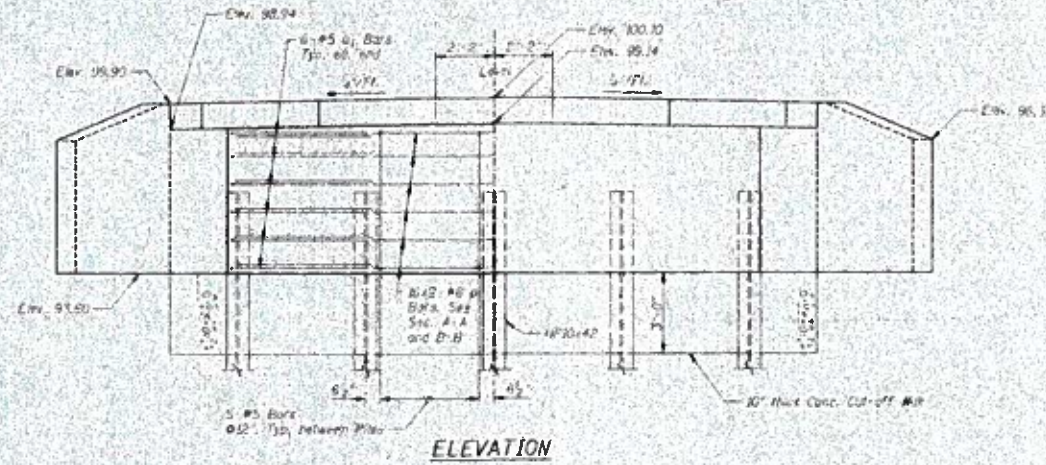
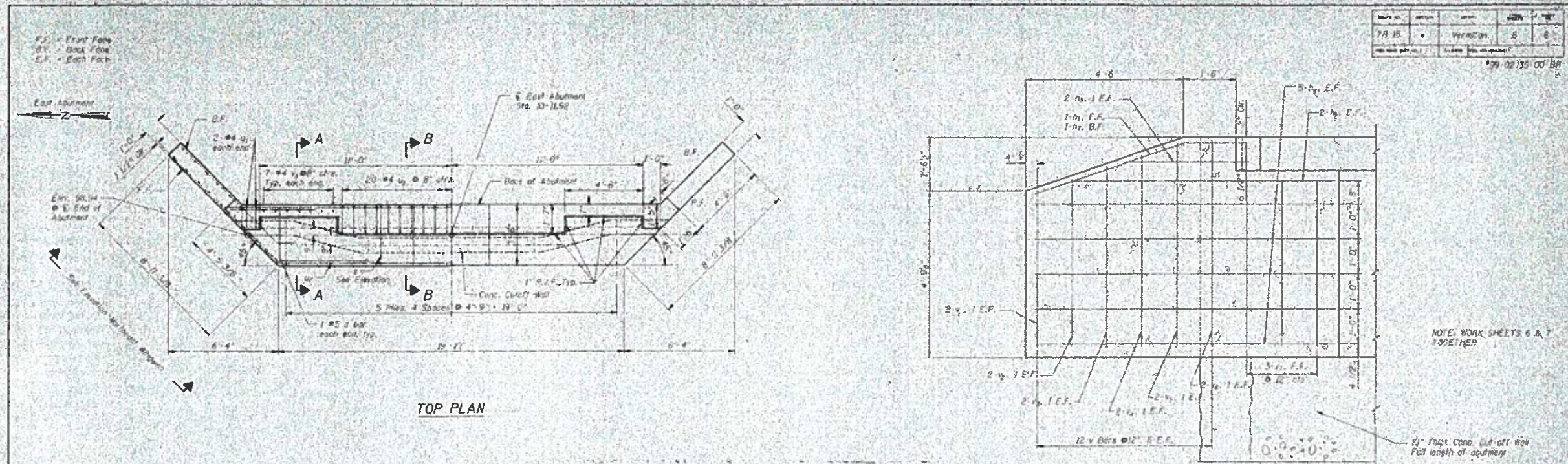


- GENERAL NOTES**
- The Contractor shall drive 1 steel test pile in a representative location of each abutment as directed by the Engineer before creating the remainder of piles.
 - Boring Data is shown only as a guide to bidders in estimating soil conditions which may be encountered during construction.
 - Class SF or MS Concrete shall be used in the abutments.
 - Masonry selected salvaged from the existing structure shall not be reused and shall be disposed of off the job by the Contractor.

DESIGN	DATE	REVISION	BY	APP'D
DR				
CHK				
APP'D				

FRAUENHÖFFER
 Frauenthoffer and Associates, P.C. Consulting Engineers
 3002 Crossing Court, Champaign, IL 61822 217-361-6268

GENERAL PLAN AND ELEVATION
 BUTLER ROAD DISTRICT
 SECTION 99-02135-00-BR
 VERMILION COUNTY



BILL OF MATERIAL
2 ABUTMENTS

Bar	No.	Size	Length	Shape
u	20	#4	1' 11"	
u	47	#5	13'-05"	
h ₁	4	#5	5'-0"	
h ₂	12	#5	3'-3"	
h ₃	8	#5	4'-9"	
h ₄	40	#5	9'-6"	
v	11	#4	5'-0"	
d	64	#6	11'-0"	
s	44	#5	17'-3"	
u	24	#6	14'-3"	
u	8	#4	7'-1"	
u	40	#4	7'-3"	
v ₁	8	#4	4'-3"	
v ₂	8	#4	4'-7"	
v ₃	8	#4	5'-0"	
v ₄	8	#4	5'-4"	
v ₅	8	#4	5'-9"	
v ₆	8	#4	5'-10"	
v ₇	12	#4	4'-9"	
v ₈	28	#4	3'-8"	
Concrete Structures	Cu. Yds.		38.4	
Reinforcing Bars	Lbs.		73692	
Test Pile, Steel HP10x42	Each		2	
Steel Piles, HP10x42	Each		2	
Form Plate, 2" x 12"	Each		23.1	
Concrete Cut-off Wall	Cu. Yds.		4.5	
Structure Excavation	Cu. Yds.		12.4	

PILE DATA

Type: Steel HP 2 x 42
No. Required: 4 East Abutment
4 West Abutment
Capacity: 31 T/Pile
Est. Length: 36 Ft. E. Abutment
36 Ft. W. Abutment
Test Piles: 1 East Abutment
1 West Abutment

DESIGN	D.W. WILSON	DATE		REVISION	
DR	D.W. WILSON				
CHK	S.E. BRANDEG				
APP'D	K.E. BRANDEG				

FRAUENHOFER
Frauenhofer and Associates, P.C., Consulting Engineers
3002 Crossing Court, Champaign, IL 61822 217-357-6268

EAST ABUTMENT
BUTLER TOWNSHIP
SECTION 99-02135-00-BR
VERMILION COUNTY

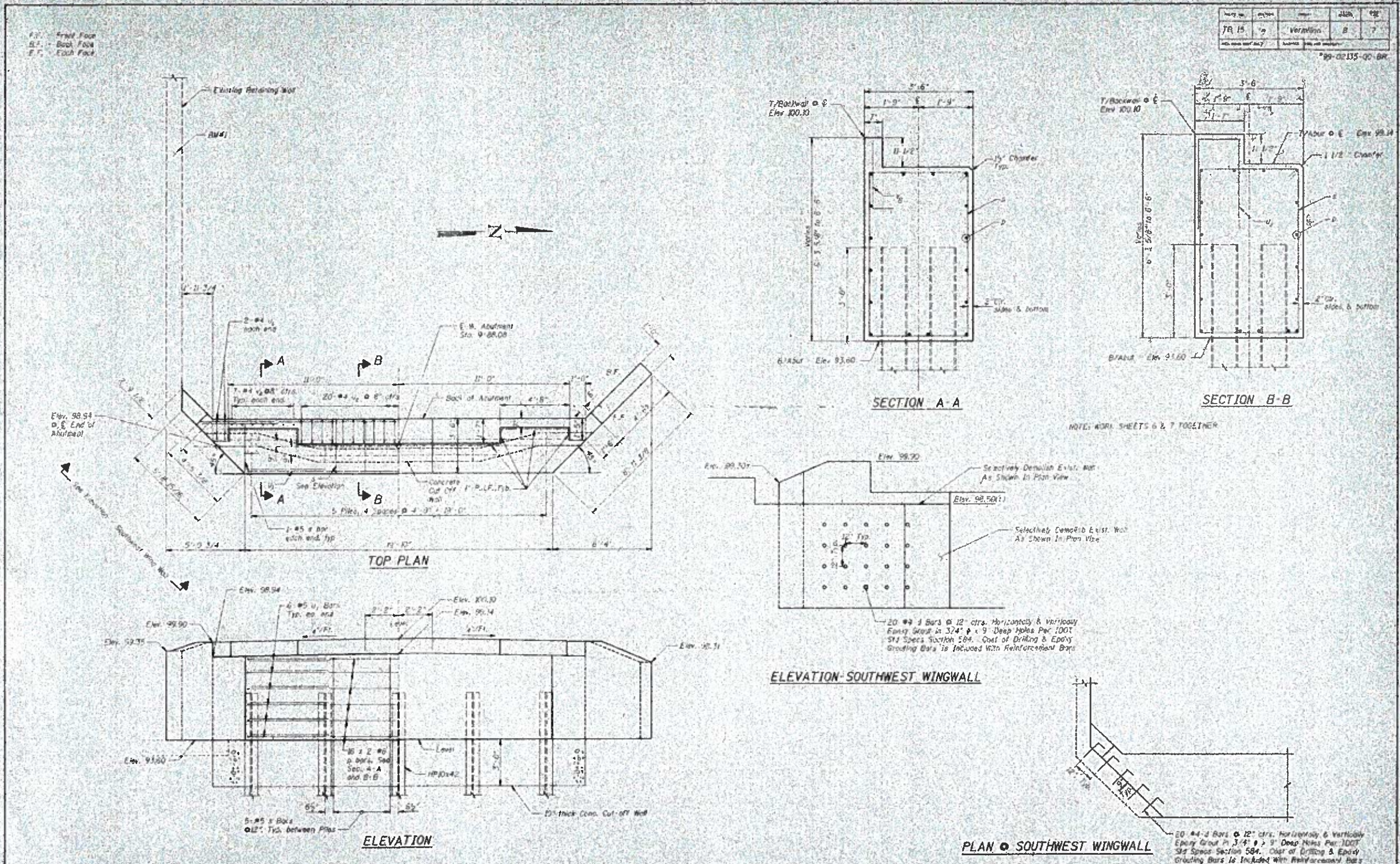
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PLOT DATE	= 5/1/2020	CHECKED	- M. LANGE	REVISED	-
		DATE	- APRIL 17TH, 2020	REVISED	-

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

EXISTING PLANS
STRUCTURE NO. 092-3430

TWP. RD.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
15	17-02154-00-BR	VERMILION	32	24
CONTRACT NO. 91595			ILLINOIS FED. AID PROJECT: ALPE16671	

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DESIGNER	DESIGNED	DESIGNED	REVISION
DR.	DRAWN	REVISION	
CHK.	CHECKED	REVISION	
APP.	DATE	REVISION	

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

FRAUENHOFER
Frauenhoffer and Associates, P.C. Consulting Engineers
3002 Crossing Court, Champaign, IL 61822 217-351-6288

WEST ABUTMENT
BUTLER TOWNSHIP
SECTION 99-02135-00-BH
VERMILION COUNTY

EXISTING PLANS
STRUCTURE NO. 092-3430

SCALE: N.T.S. SHEET 14 OF 15 SHEETS STA. TO STA.

TWP. RD.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
15	17-02154-00-BR	VERMILION	32	25
CONTRACT NO. 91595				

ILLINOIS FED. AID PROJECT ALP616671

DATE	BY	CHKD	APP
7/15			

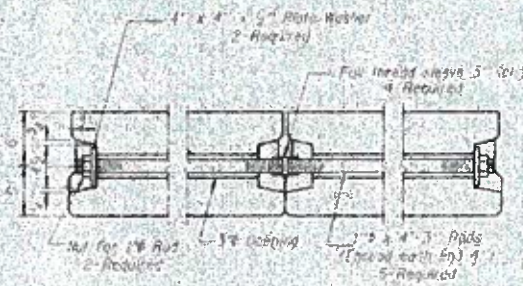
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FABRIC BEARING PAD
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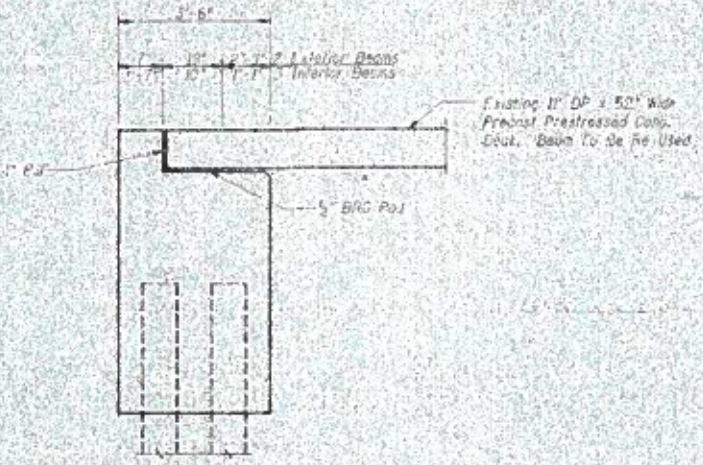


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(Elevation)

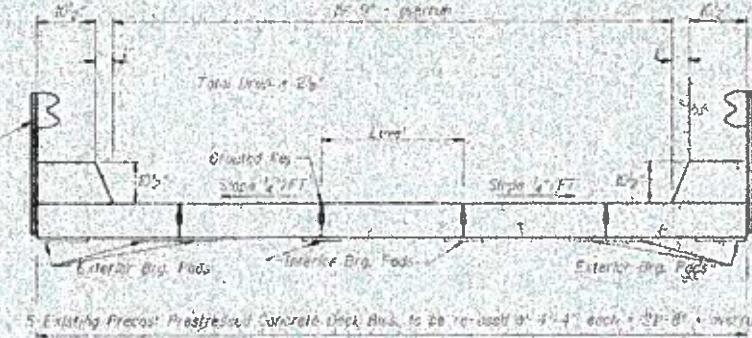


TYPICAL TRANSVERSE TIE ASSEMBLY

Note: Provide all non-hardware for the Transverse Tie Assembly as shown above. Fast is included with Erecting Splices Precast Prestressed Concrete Deck Beams.



SECTION AT ABUT



CROSS SECTION

Re-use existing posts and rails. Remove and curbed end section at the southwest corner and affix "Steel Plate Beam Guardrail Attached to Structures" (Milway Standard 6.3000) Rail Element Splice.

NOTES

- The 1/2 rods in the transverse tie assembly shall be tightened to a snug fit and the threads set. Washers that retain transverse tie bar on outside shall be fixed with girth after transverse tie assembly is in place.
- The bearing seat surfaces shall be prepared by grinding to assure firm and even bearing. Two (2) fabric adjusting strips of the dimension of the Exterior Bearing Pad shall be provided for each bearing.
- Keyway surfaces shall be cleaned to remove form oil or other build breaking material prior to placement of the beams. Grouting shall be done by sandblasting the keyway areas between top of the beam and the bottom edge of the key.
- All of the work shown or referenced on this sheet shall be included with "Erecting Splices Precast Prestressed Concrete Deck Beams." See Special Provisions.

DRN	D.W. Wadler				
CHK	D.W. Wadler				
APP	A.E. BARNES				
DATE	5/1/2020	BY	MSD		

FRAUENHÖFFER

Engineer and Associate, P.C. Consulting Engineers
300 Crossing Court, Champlain, IL 62612 317-373-1266

SUPERSTRUCTURE

BUTLER ROAD DISTRICT
SECTION 09-02154-00-BR
VERMILION COUNTY

SHEET	8
DATE	JAN 2020
NO.	90556

USER NAME	= mlange	DESIGNED	= K. KOLODZIECZYK	REVISED	=
PLOT SCALE	= 40x.0000 = 1" / 40'	DRAWN	= K. KOLODZIECZYK	REVISED	=
PLOT DATE	= 5/1/2020	CHECKED	= M. LANGE	REVISED	=
		DATE	= APRIL 17TH 2020	REVISED	=

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

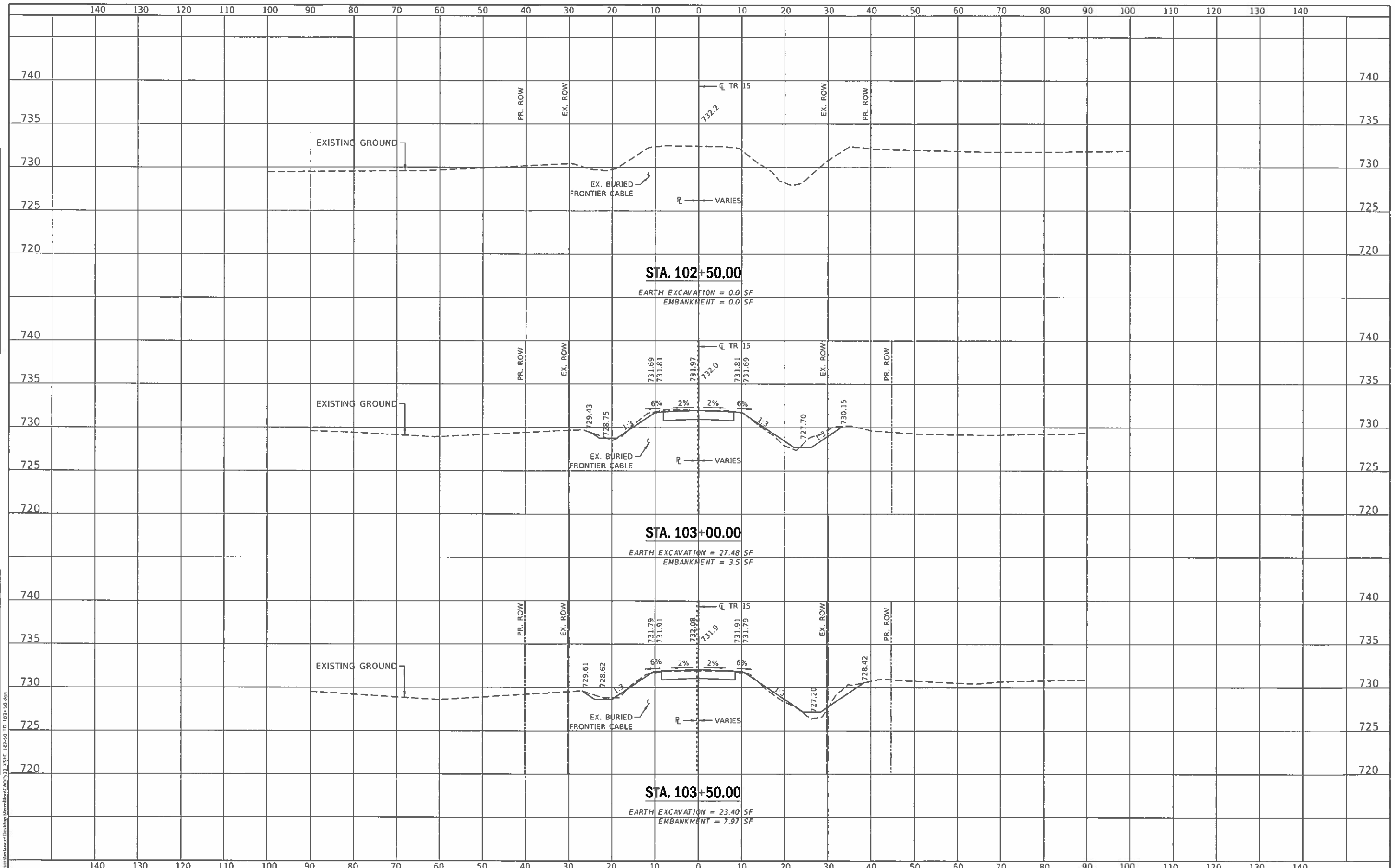
EXISTING PLANS
STRUCTURE NO. 092-3430

SCALE: N.T.S. SHEET 8 OF 15 SHEETS STA. TO STA.

TWP. RD.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
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CONTRACT NO. 91595			ILLINOIS FED. AID PROJECT: ALPE1667	

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PLOT SCALE = 1/8" = 100'	DRAWN - K. KOŁODZIECZYK	REVISED -
PLOT DATE = 5/1/2020	CHECKED - M. LANGE	REVISED -
	DATE - APRIL 17TH, 2020	REVISED -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

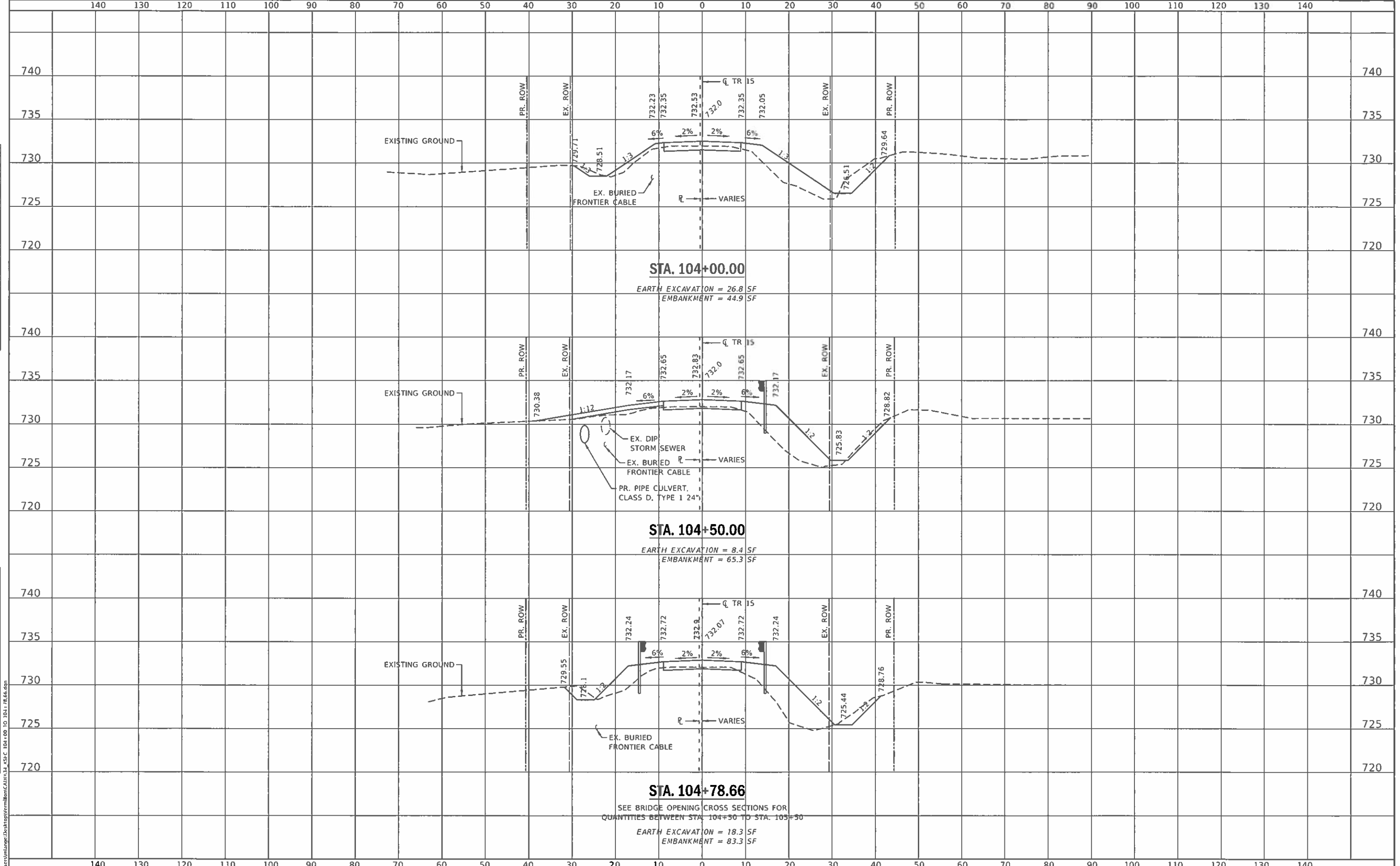
CROSS SECTION 102 + 50 TO 103 + 50

SCALE: 1/4" = 100' SHEET 1 OF 4 SHEETS STA. 102+50 TO STA. 103+50

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CONTRACT NO. 91595			ILLINOIS FED. AID PROJECT: ALPE1667	

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ENGINEERING RESOURCE ASSOCIATES

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PLOT SCALE = 1/8" = 10'-0"	DRAWN - K. KOŁODZIEJCZYK	REVISED -
PLOT DATE = 5/11/2020	CHECKED - M. LANGE	REVISED -
	DATE - APRIL 17TH, 2020	REVISED -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

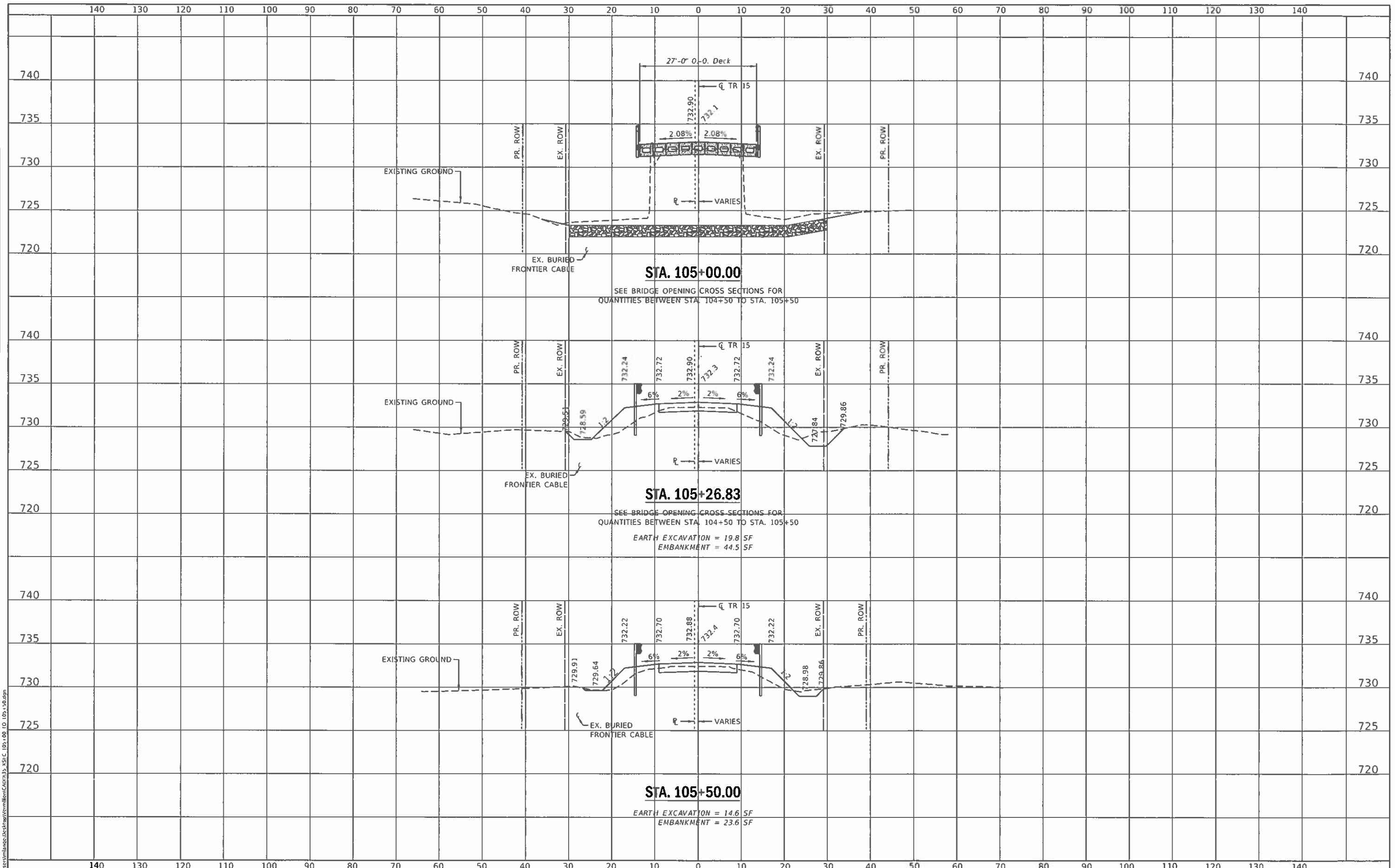
CROSS SECTION 104 + 00 TO 104 + 78.66

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TWP. RD. 15	SECTION 17-02 154-00-BR	COUNTY VERMILION	TOTAL SHEETS 32	SHEET NO. 28
CONTRACT NO. 91595				ILLINOIS FED. AID PROJECT: ALPE1667

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PLOT DATE = 5/1/2020	DATE - APRIL 17TH, 2020	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

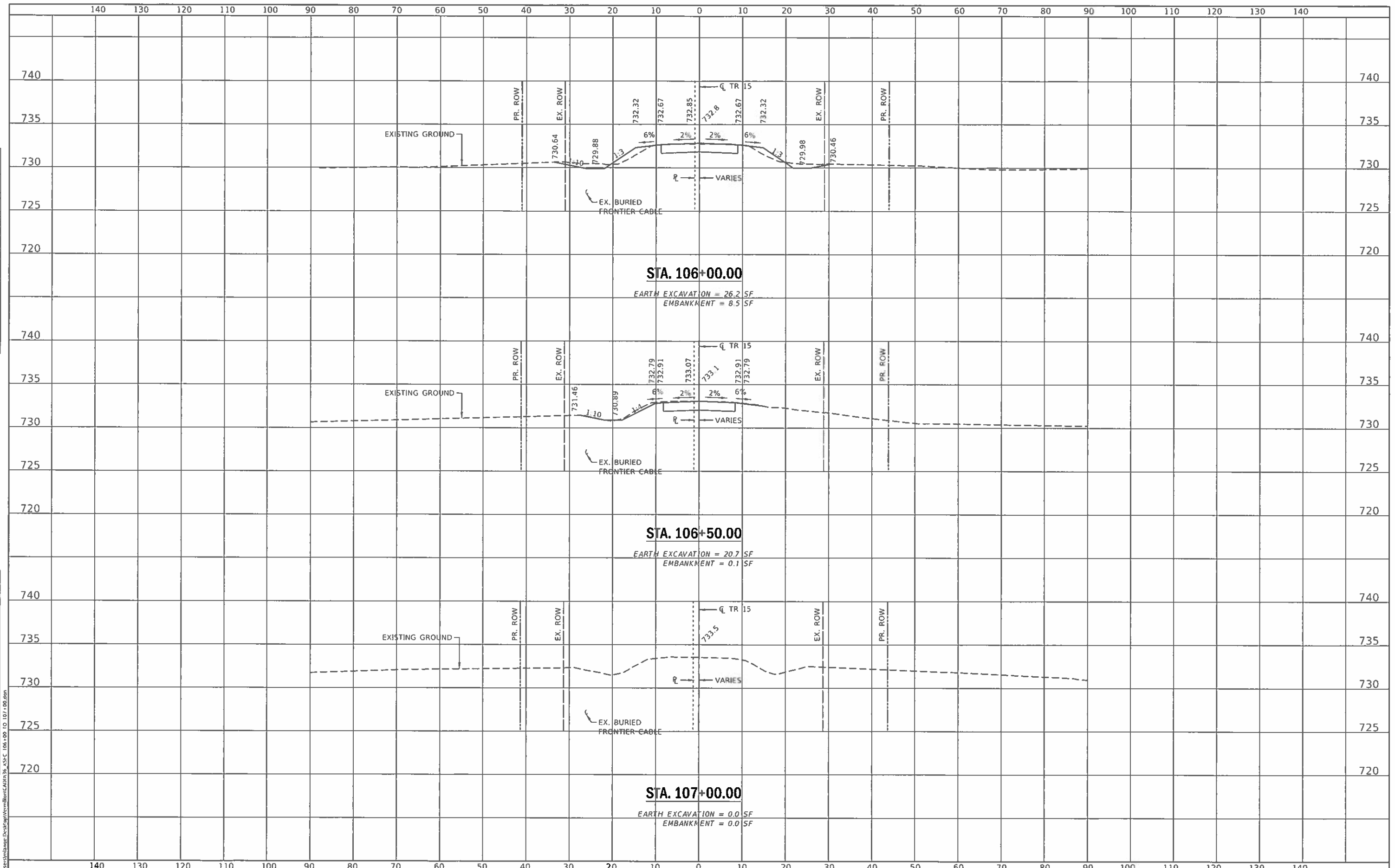
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CONTRACT NO. 91595				ILLINOIS FED. AID PROJECT: ALPE(667)

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USER NAME = mlange	DESIGNED - K. KOLODZIECZYK	REVISED -
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DATE - APRIL 17TH, 2020		

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

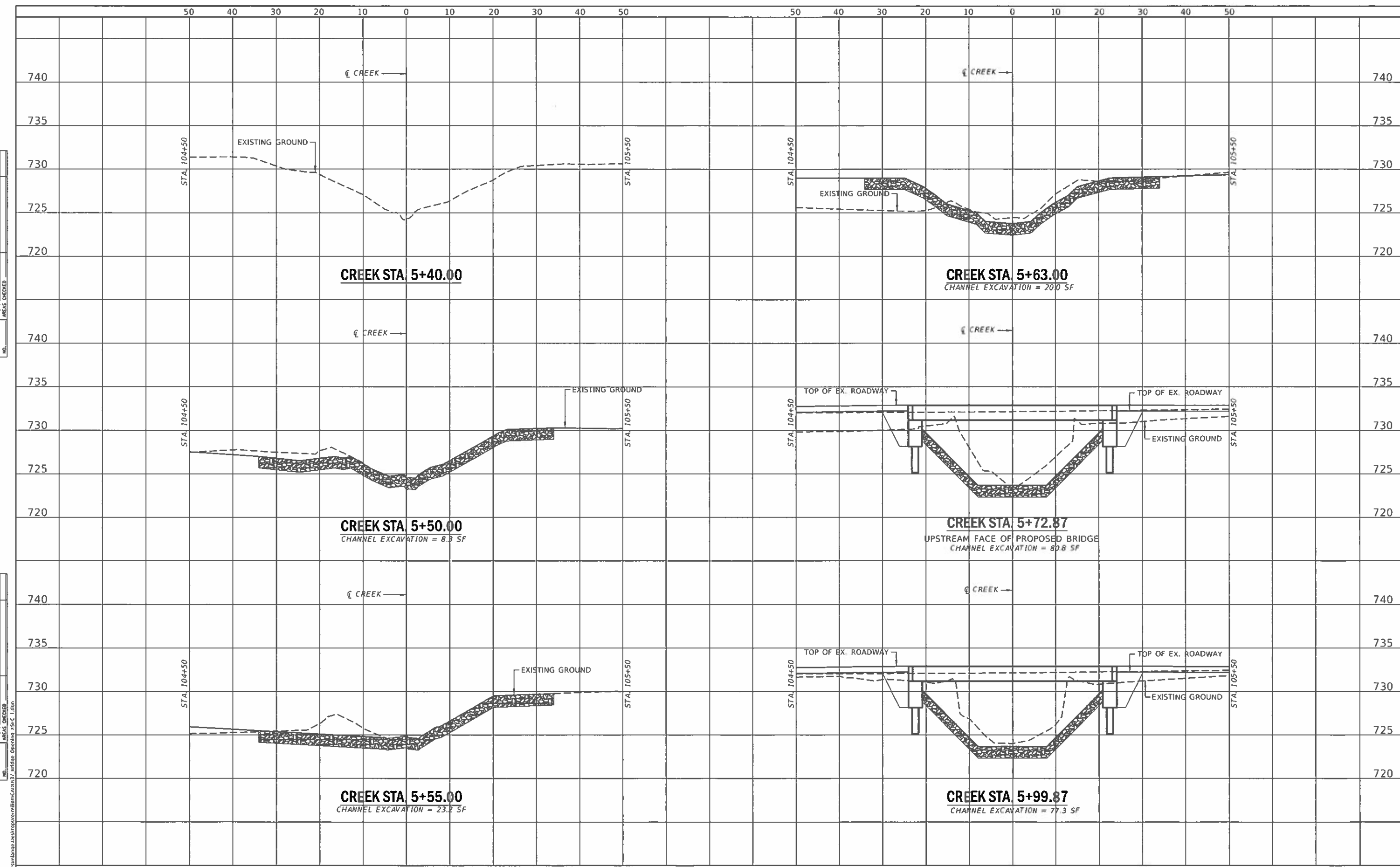
CROSS SECTION 106+00 TO 107+00

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TWP. RD. 15	SECTION 17-02 154-00-BR	COUNTY VERMILION	TOTAL SHEETS 32	SHEET NO. 30
CONTRACT NO. 91595				ILLINOIS FED. AID PROJECT: ALPE1667

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ENGINEERING RESOURCE ASSOCIATES

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		DRAWN	K. KOLODZIECZYK	REVISED	
		CHECKED	M. LANGE	REVISED	
		DATE	APRIL 17TH, 2020	REVISED	

**STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION**

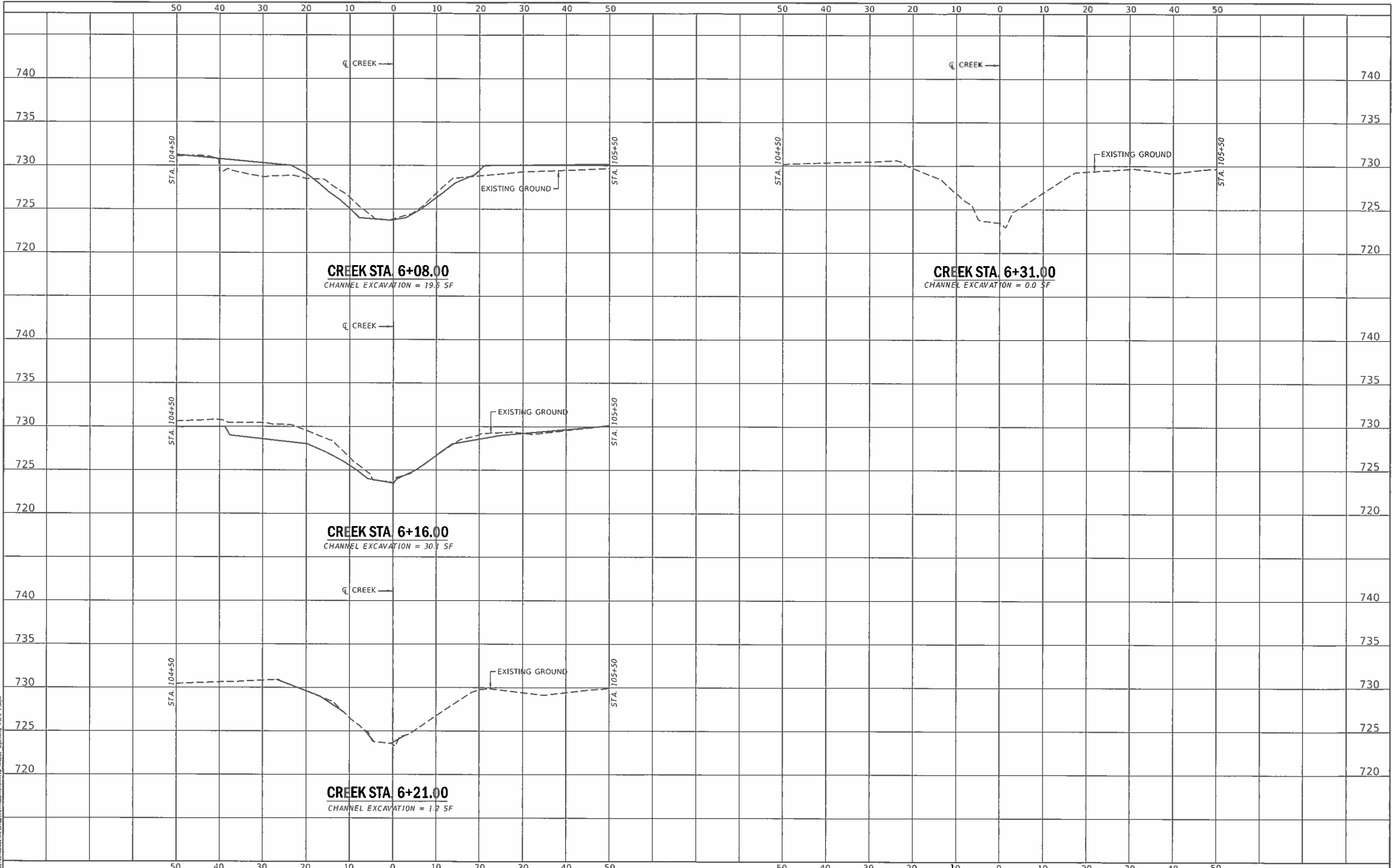
BRIDGE OPENING CROSS SECTIONS I

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TWP. RD.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
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CONTRACT NO. 91595			ILLINOIS FED. AID PROJECT: A/PE/567	

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	DRAWN - K. KOLODZIECZYK	REVISED -
PLOT SCALE = 1001.0000" = 1" / in.	CHECKED - M. LANGE	REVISED -
PLOT DATE = 5/13/2020	DATE - APRIL 17TH, 2020	REVISED -

**STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION**

BRIDGE OPENING CROSS SECTIONS II

SCALE: 10:0.0000" = 1" SHEET 2 OF 2 SHEETS STA. 6+08 TO STA. 6+31

TWP. RD.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
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CONTRACT NO. 91595				
ILLINOIS FED. AID PROJECT: A/PE/667				