

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION
DIVISION OF HIGHWAYS

**PROPOSED
HIGHWAY PLANS**

F.A.P. ROUTE 793 (IL 143)
SECTION (40, 112)BR-1
PROJECT STP-0793(023)
BRIDGE REPLACEMENT
IL 143 OVER SHOAL CREEK
BOND COUNTY

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
793	(40, 112)BR-1	ILLINOIS	95	1
ILLINOIS CONTRACT NO. 76967				

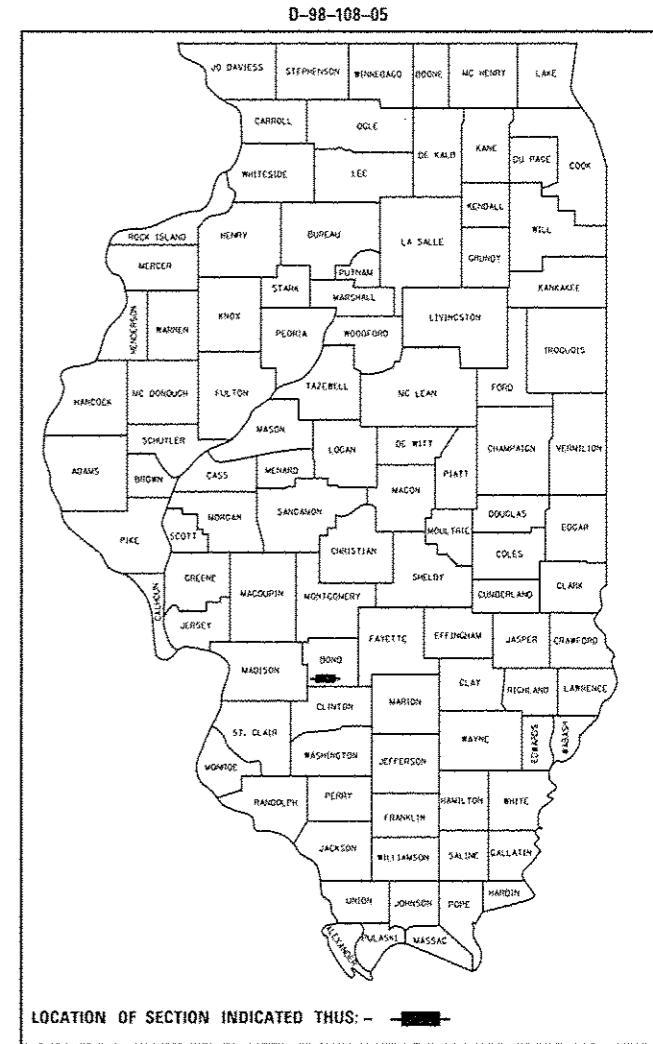
INDEX OF SHEETS

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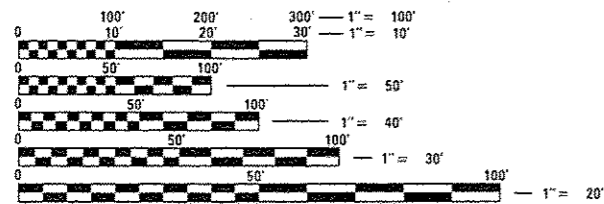
FOR LIST OF HIGHWAY STANDARDS, SEE SHEET NO. 2

STATION 385 + 04.50, 0° SKEW
PROPOSED STRUCTURE NO. 003-0062
NINE SPAN STEEL GIRDER BRIDGE 1352'-0" BK. TO BK. ABUTMENTS
REINFORCED CONCRETE DECK 35'-2" O. TO O. ON STEEL
COMPOSITE WEB PLATE GIRDERS AND REINFORCED CONCRETE
PIERS AND ABUTMENTS.
LATITUDE: 38.7758
LONGITUDE: -89.4994

C-98-136-05

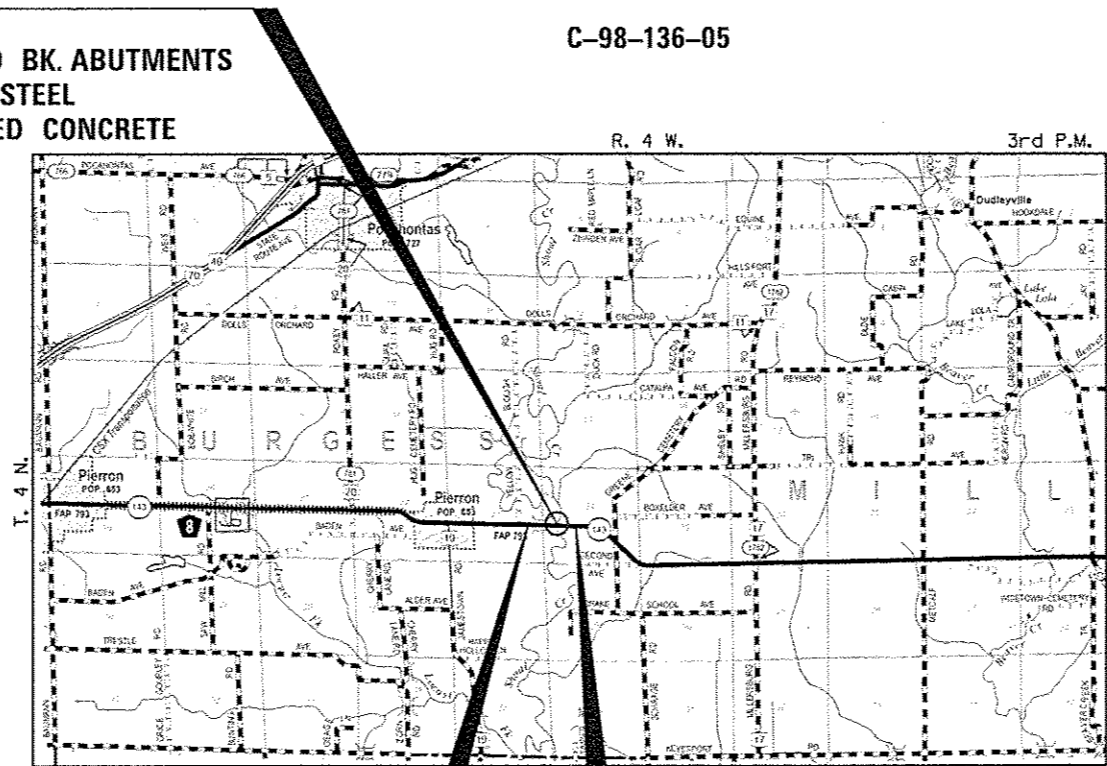


DESIGN DESIGNATION:
ADT 1800 (17) MINOR ARTERIAL
3.16 (FD-20)



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.

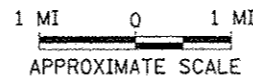
J.U.L.I.E.
JOINT UTILITY LOCATION INFORMATION FOR EXCAVATION
1-800-892-0123
OR 811



BEGIN IMPROVEMENT
STA 372 + 00
LATITUDE: 38.7758
LONGITUDE: -89.50.55

END IMPROVEMENT
STA 398 + 00
LATITUDE: 38.7757
LONGITUDE: -89.4965

SIGNED: *Brian M. Borgman* DATE: 11/13/2017
EXPIRES: 11/30/2017



GROSS LENGTH = 2,600.00 FT. = 0.492 MILE
NET LENGTH = 2,600.00 FT. = 0.492 MILE

Hutchison Engineering, Inc.
SINCE 1945
1801 West Lafayette
PO Box 820
Jacksonville, Illinois 62651
PHONE : (217)245-7164 FAX (217)243-0468

PROJECT ENGINEER: HERVE GELIN PHONE: (618)346-3179
SQUAD LEADER: CECIL DOWNING PHONE: (618)346-3186

CONTRACT NO. 76967

PRINTED BY THE AUTHORITY
OF THE STATE OF ILLINOIS

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

SUBMITTED *Jan 20 2017*
Jeffrey Z. K... REGIONAL ENGINEER
May 12 2017
Maureen M. Addis PE ENGINEER OF DESIGN AND ENVIRONMENT
May 12 2017
... DIRECTOR OF PROGRAM DEVELOPMENT

GENERAL NOTES

- ILLINOIS STATE LAW REQUIRES A 48-HOUR NOTICE BE GIVEN TO ALL UTILITIES WITHIN THE PROJECT AREA BEFORE DIGGING. FIELD MARKING OF FACILITIES MAY BE OBTAINED BY CONTACTING J.U.L.I.E. OR FOR NON-MEMBERS, THE UTILITY COMPANY DIRECTLY. AGENCIES KNOWN TO HAVE FACILITIES WITHIN THE PROJECT AREA ARE AS FOLLOWS:
 - *AT&T ILLINOIS
 - *FRONTIER NORTH, INC.
 - *CENTERPOINT ENERGY
 - *SOUTHWESTERN ELECTRIC COOPERATION, INC.

MEMBERS OF J.U.L.I.E. CALL TOLL FREE (800) 892-0123 OR 811 AND ARE INDICATED BY *.
NON-J.U.L.I.E. MEMBERS MUST BE NOTIFIED INDIVIDUALLY.
- THE CONTRACTOR SHALL VERIFY ALL DIMENSIONS AND CONDITIONS IN THE FIELD PRIOR TO CONSTRUCTION AND ORDERING MATERIALS.
- THE REMOVAL OF THE BRIDGE APPROACH PAVEMENT, CONNECTOR, AND SLEEPER SLAB IS INCLUDED IN THE COST OF PAVEMENT REMOVAL.
- IF THE CONTRACTOR, FOR HIS CONSTRUCTION ACTIVITY, REMOVES TREES WITHIN THE RIGHT-OF-WAY LIMITS WHICH ARE NOT DESIGNATED ON THE PLANS FOR REMOVAL, I.E. IN ORDER TO GAIN ACCESS TO THE PROJECT SITE; IT WILL BE HIS RESPONSIBILITY TO REPLACE THE TREES AT A 1:1 RATIO. THE TREES WILL BE REPLACED WITH A 1 GALLON NATIVE ILLINOIS TREE SPECIES AND SHALL BE APPROVED BY THE ENGINEER. THE TREE REMOVAL AND TREE REPLACEMENT WILL BE AT THE CONTRACTOR'S EXPENSE, AND NO ADDITIONAL COMPENSATION WILL BE ALLOWED.
- ALL EXISTING AND PROPOSED RIGHT-OF-WAY LINES AND PROPERTY LINES SHOWN ON THE PLAN SHEETS ARE GRAPHICAL REPRESENTATIONS AND SHALL NOT BE USED AS A MEANS TO ESTABLISH OWNERSHIP. IN ALL MATTERS RELATING TO RIGHT-OF-WAY, THE PLAT OF HIGHWAYS SHALL BE THE CONTROLLING DOCUMENT.
- ALL ELEVATIONS REFER TO THE USGS MEAN SEA LEVEL DATUM.
- EXISTING STRUCTURE PLANS ARE AVAILABLE FOR REVIEW IN THE DISTRICT OFFICE. CONTACT HERVE GELIN AT (618)-346-3179.
- THE CONTRACTOR SHALL PROVIDE LABOR AND MATERIALS REQUIRED TO IMPRINT PAVEMENT STATION NUMBERS IN THE FINISHED SURFACE OF THE PAVEMENT AND/OR OVERLAY. THE NUMBERS SHALL BE APPROXIMATELY 3/4 INCHES WIDE, 5 INCHES HEIGHT, AND 3/8 INCHES DEEP.

THE PAVEMENT STATION NUMBERS SHALL BE INSTALLED AS SPECIFIED HEREIN:
 INTERVAL - 250 FEET
 BOTTOM OF NUMBERS - 6 INCHES FROM THE INSIDE EDGE OF THE PAVEMENT MARKING LOCATION:
 2-LANE PAVEMENT - RIGHT EDGE OF PAVEMENT IN DIRECTION OF INCREASING STATIONS
 POSITION - STATIONS SHALL BE PLACED SO THEY CAN BE READ FROM THE ADJACENT SHOULDER
 FORMAT - "XX+XX", WHERE X REPRESENTS THE PAVEMENT STATION
 THE STAMPED STATIONS SHALL BE FILLED WITH SAND IMMEDIATELY AFTER STAMPING AND PRIOR TO ADDITIONAL ROLLING.
 THIS WORK WILL NOT BE PAID FOR SEPARATELY, BUT WILL BE CONSIDERED INCLUDED IN THE COST OF THE ASSOCIATED PAVEMENT AND/OR OVERLAY PAY ITEMS.
- ALL EROSION CONTROL PRODUCTS FURNISHED SHALL BE SPECIFICALLY RECOMMENDED BY THE MANUFACTURER FOR THE USE SPECIFIED IN THE EROSION CONTROL PLAN. PRIOR TO APPROVAL AND USE OF THE PRODUCT, THE CONTRACTOR SHALL SUBMIT TO THE ENGINEER A NOTARIZED CERTIFICATION BY THE PRODUCER STATING THE INTENDED USE OF THE PRODUCT AND THAT THE PHYSICAL PROPERTIES REQUIRED FOR THIS APPLICATION ARE MET OR EXCEEDED. THE CONTRACTOR SHALL PROVIDE MANUFACTURER RECOMMENDED INSTALLATION PROCEDURES TO FACILITATE THE ENGINEER IN CONSTRUCTION INSPECTION.
- TEMPORARY SEEDING SHALL BE COMPLETED ON A WEEKLY BASIS ON EXPOSED GROUND AND SHALL BE PAID FOR AS "TEMPORARY EROSION CONTROL SEEDING" AND NO OTHER PAYMENT WILL BE PERMITTED. FOR CALCULATION PURPOSES, THREE APPLICATIONS OF TEMPORARY SEEDING WERE ASSUMED.
- ALL AREAS DISTURBED FOR ANY REASON SHALL BE PERMANENTLY SEEDDED AS DIRECTED BY THE ENGINEER. ALL AREAS DISTURBED BY THE CONTRACTOR OUTSIDE THE PROPOSED CONSTRUCTION LIMITS SHALL BE SEEDDED AT THE CONTRACTOR'S EXPENSE.
- THE CONTRACTOR SHALL BE REQUIRED TO PROVIDE ACCESS TO ALL ADJACENT PROPERTIES AT ALL TIMES DURING CONSTRUCTION OF THE PROJECT.
- THE RIGHT OF WAY MARKERS SHALL BE INSTALLED SO THAT THE BACK OF THE POST IS TWELVE INCHES (12") INSIDE THE RIGHT OF WAY BOUNDARY. THE RIGHT OF WAY MARKER SHALL BE A WITNESS TO THE RIGHT OF WAY CORNER, WHICH IS THE PROPERTY PIN. THE RIGHT OF WAY CORNER OR PROPERTY PIN IS A 3/4" IRON ROD WITH IDOT ALUMINUM CAP THAT SHALL NOT BE REMOVED, DAMAGED, OR DISTURBED WHEN SETTING THE RIGHT OF WAY MARKER AT THE TWELVE INCHES (12") OFFSET.

14. THE FOLLOWING MIXTURE REQUIREMENTS ARE APPLICABLE FOR THIS PROJECT:

ROUTE	FAP 793 (IL 143)
SECTION	(40,112)BR-1
COUNTY	BOND
CONTRACT	76967

ADT (CONSTRUCTION YR):	2000
MU%	7
SU%	9
20 YR. ESAL'S:	1.00

MIXTURE USE	SURFACE	BINDER
AC/PG	PG 64-22	PG 64-22
RAP % (MAX)	SEE SPECIAL PROVISION	SEE SPECIAL PROVISION
DESIGN AIR VOIDS	4.0% @ Ndes=70	4.0% @ Ndes=70
MIX COMPOSITION: (GRADATION)	IL 9.5	IL 19.0
FRICTION AGG	MIXTURE "C"	MIXTURE "B"
QUALITY MGMT PROGRAM	QC/QA	QC/QA

MIXTURE USE	SHOULDERS ≥ 2.25"	SHOULDERS < 2.25"
AC/PG	PG 64-22	PG 64-22
RAP % (MAX)	SEE SPECIAL PROVISION	SEE SPECIAL PROVISION
DESIGN AIR VOIDS	4.0% @ Ndes=30	4.0% @ Ndes=30
MIX COMPOSITION: (GRADATION)	IL 19.0L	IL 9.5L
FRICTION AGG		
QUALITY MGMT PROGRAM	QC/QA	QC/QA

15. FACTORS FOR ESTIMATING PLAN QUANTITIES ARE AS FOLLOWS AND SHALL NOT BE USED FOR THE BASIS OF FINAL QUANTITIES:

HOT-MIX ASPHALT BINDER COURSE	112 LB/SQ YD/IN
HOT-MIX ASPHALT SURFACE COURSE	112 LB/SQ YD/IN
AGGREGATE (SURFACE, BASE, & BACKFILL)	2.05 TON/CU YD
BITUMINOUS MATERIALS:	
PRIME COAT FOR AGGREGATE BASES	0.25 LB/SF
TACK COAT FOR HMA LIFTS	0.025 LB/SF
RIP RAP	1.5 TON/CU YD
SEEDING, CLASS 2	200 LB/ACRE
TEMPORARY EROSION CONTROL SEEDING	100 LB/ACRE
NITROGEN FERTILIZER NUTRIENT	90 LB/ACRE
PHOSPHORUS FERTILIZER NUTRIENT	90 LB/ACRE
POTASSIUM FERTILIZER NUTRIENT	90 LB/ACRE
MULCH	2 TON/ACRE

COMMITMENTS

- TREE REMOVAL WILL NOT OCCUR FROM APRIL 1ST THROUGH SEPTEMBER 30TH DUE TO POTENTIAL NORTHERN LONG-EARED BAT HABITAT.
- THERE IS A USGS GAGING STATION LOCATED ADJACENT TO THE EXISTING STRUCTURE THAT WILL BE IMPACTED BY THE PROPOSED IMPROVEMENTS. THE CONTRACTOR SHALL ABIDE BY ANY COORDINATION BETWEEN THE ENGINEER AND THE USGS REGARDING THE GAGING STATION. TRENT LEGG AT USGS (618-242-4495 OR 618-237-2939) SHALL BE CONTACTED A MINIMUM OF TWO WEEKS BEFORE CONSTRUCTION IS TO BEGIN.
- NO WORK SHALL BE CONDUCTED ON THE BRIDGE FROM APRIL 1 THROUGH AUGUST 15 OF ANY CONSTRUCTION YEAR IN ORDER TO PROTECT NESTING BIRDS UNDER THE BRIDGE.
- IF THE BRIDGE WORK CANNOT BE STARTED UNTIL AFTER APRIL 1, NETTING OR OTHER OBSTRUCTIONS SHOULD BE PLACED UNDER THE BRIDGE PRIOR TO APRIL 1 TO PREVENT BIRDS FROM NESTING UNDER THE BRIDGE. THIS WORK WILL NOT BE PAID FOR SEPARATELY, BUT WILL BE CONSIDERED INCLUDED IN THE COST OF THE CONTRACT.

LIST OF IDOT STANDARDS

- 000001-06 STANDARD SYMBOLS, ABBREVIATIONS AND PATTERNS
- 001001-02 AREAS OF REINFORCEMENT BARS
- 001006 DECIMAL OF AN INCH AND OF A FOOT
- 280001-07 TEMPORARY EROSION CONTROL SYSTEMS
- 420406 PAVEMENT CONNECTOR (HMA) FOR BRIDGE APPROACH SLAB
- 482001-02 HMA SHOULDER ADJACENT TO FLEXIBLE PAVEMENT
- 515001-03 NAME PLATE FOR BRIDGES
- 542401-02 METAL END SECTION FOR PIPE CULVERTS
- 630001-11 STEEL PLATE BEAM GUARDRAIL
- 630301-07 SHOULDER WIDENING FOR TYPE 1 (SPECIAL) GUARDRAIL TERMINALS
- 631031-15 TRAFFIC BARRIER TERMINAL, TYPE 6
- 635001-02 DELINEATORS
- 666001-01 RIGHT OF WAY MARKERS
- 701901-06 TRAFFIC CONTROL DEVICES
- 720001-01 SIGN PANEL MOUNTING DETAILS
- 720006-04 SIGN PANEL ERECTION DETAILS
- 725001-01 OBJECT AND TERMINAL MARKERS
- 728001-01 TELESCOPING STEEL SIGN SUPPORT
- 780001-05 TYPICAL PAVEMENT MARKINGS
- 781001-04 TYPICAL APPLICATIONS RAISED REFLECTIVE PAVEMENT MARKERS
- 782006 GUARDRAIL AND BARRIER WALL REFLECTOR MOUNTING DETAILS
- BLR 21-9 TYPICAL APPLICATION OF TRAFFIC CONTROL DEVICES FOR CONSTRUCTION ON RURAL LOCAL HIGHWAYS
- BLR 22-7 TYPICAL APPLICATION OF TRAFFIC CONTROL DEVICES FOR CONSTRUCTION ON RURAL LOCAL HIGHWAYS

LEGEND

- PROPOSED DITCH
- EXISTING DITCH/SWALE
- SPECIAL DITCH LEFT
- SPECIAL DITCH RIGHT
- ITEM TO BE REMOVED
- EXISTING ELEVATION
- ITEM TO BE REMOVED
- TREE REMOVAL, ACRES
- PAVEMENT REMOVAL
- PROPOSED RIPRAP
- HEAVY DUTY EROSION CONTROL BLANKET

PROJECT COORDINATES

STATION	OFFSET	NAD 1983 STATE PLANE		TRUNCATED GROUND COORDINATES		DESCRIPTION
		GRID COORDINATES		COMBINATION FACTOR: 0.9999787374		
		NORTHING	EASTING	NORTHING	EASTING	
FEET						
368+16.40	14.98' RT	768707.5946	2484659.6002	768723.9394	484712.4308	5/8" REBAR WITH IDOT CAP
379+65.02	19.90' RT	768673.4345	2485807.7028	768689.7786	485860.5578	5/8" REBAR WITH IDOT CAP
391+47.16	17.94' RT	768645.3126	2488989.4854	768661.6561	489042.4081	5/8" REBAR WITH IDOT CAP
400+87.88	15.16' LT	768654.4536	2487930.7172	768670.7973	487983.6174	5/8" REBAR WITH IDOT CAP

NOTES:

- AFTER THE APPLICATION OF THE COMBINATION FACTOR, THE EASTING FOR THE TRUNCATED GROUND COORDINATES HAS BEEN TRUNCATED TO DISTINGUISH THEM AS GROUND COORDINATES.
- SEE PLAN SHEETS FOR PROJECT COORDINATE TIE POINTS.

FILE NAME =	USER NAME = gelinh	DESIGNED -	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	F.A.P. 793 (IL 143) GENERAL NOTES, STANDARDS, LEGEND & PROJECT COORDINATES	F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
p:\IL\084EBIDINTEG\illinois.gov\PIDOT\Documents\IDOT Offices\District 8\Projects\edit\BRAND\DATA\CAD\sheets\D876967-sht-genno-REVISED -	PLOT SCALE = 1:920000 FT / IN.	CHECKED -	REVISED -			793	(40, 112)BR-1	BOND	95	2
PLOT DATE = 3/7/2017	DATE -	REVISED -				CONTRACT NO. 76967			ILLINOIS FED. AID PROJECT	
						SCALE: NONE	SHEET NO. 1 OF 1 SHEETS	STA.	TO STA.	

80% FEDERAL
20% STATE

CONSTR. CODE

RURAL

CODE NO.	ITEM	UNIT	TOTAL QUANTITY	BRIDGE
				0011 ✓ 003-0062
20100110	TREE REMOVAL (6 TO 15 UNITS DIAMETER)	UNIT	1,076	1,076
20100210	TREE REMOVAL (OVER 15 UNITS DIAMETER)	UNIT	1,434	1,434
20100500	TREE REMOVAL, ACRES	ACRE	1.00	1.00
20200100	EARTH EXCAVATION	CU YD	7,520	7,520
20400800	FURNISHED EXCAVATION	CU YD	2,790	2,790
25000200	SEEDING, CLASS 2	ACRE	2.75	2.75
25000314	SEEDING, CLASS 4B	ACRE	3.25	3.25
25000400	NITROGEN FERTILIZER NUTRIENT	POUND	530	530
25000500	PHOSPHORUS FERTILIZER NUTRIENT	POUND	530	530
25000600	POTASSIUM FERTILIZER NUTRIENT	POUND	530	530
25100115	MULCH, METHOD 2	ACRE	3.00	3.00
25100635	HEAVY DUTY EROSION CONTROL BLANKET	SQ YD	10,532	10,532
28000250	TEMPORARY EROSION CONTROL SEEDING	POUND	1,764	1,764
28000305	TEMPORARY DITCH CHECKS	FOOT	98	98

14

FILE NAME *	USER NAME = bbergman	DESIGNED -	REVISED -
\\transportation\3892\CADD SHEETS\0878967-shr-500.dgn		DRAWN -	REVISED -
	PLOT SCALE = 100.0000' / 1"	CHECKED -	REVISED -
#MODELNAME*	PLOT DATE = 1/11/2017	DATE -	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

F.A.P. 793 (IL 143)
SUMMARY OF QUANTITIES

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
793	140, 1121BR-1	BOND	95	3
CONTRACT NO. 76967			ILLINOIS FED. AID PROJECT	

SCALE: NONE SHEET 1 OF 6 SHEETS STA. TO STA.

80% FEDERAL
20% STATE

CONSTR. CODE

RURAL

CODE NO.	ITEM	UNIT	TOTAL QUANTITY	BRIDGE	
				0011	003-0062
28000400	PERIMETER EROSION BARRIER	FOOT	5,339	5,339	
28000500	INLET AND PIPE PROTECTION	EACH	3	3	
28100107	STONE RIPRAP, CLASS A4	SQ YD	2,100	2,100	
28200200	FILTER FABRIC	SQ YD	1,675	1,675	
31100910	SUBBASE GRANULAR MATERIAL, TYPE A 12"	SQ YD	4,460	4,460	
40200700	AGGREGATE SURFACE COURSE, TYPE A 8"	SQ YD	610	610	
40600275	BITUMINOUS MATERIALS (PRIME COAT)	POUND	7,514	7,514	
40600290	BITUMINOUS MATERIALS (TACK COAT)	POUND	2,164	2,164	
40603085	HOT-MIX ASPHALT BINDER COURSE, IL-19.0, N70	TON	1,502	1,502	
40603315	HOT-MIX ASPHALT SURFACE COURSE, MIX "C", N70	TON	352	352	
42000070	PAVEMENT CONNECTOR (HMA) FOR BRIDGE APPROACH SLAB	SQ YD	72	72	
44000100	PAVEMENT REMOVAL	SQ YD	4,256	4,256	
48100100	AGGREGATE SHOULDERS, TYPE A	TON	234	234	
48203038	HOT-MIX ASPHALT SHOULDERS, 10 1/4"	SQ YD	1,040	1,040	

14

FILE NAME =	USER NAME = bborghnan	DESIGNED -	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	F.A.P. 793 (IL 143) SUMMARY OF QUANTITIES	F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
V:\Transportation\3898\CADD SHEETS\0876\67-shr-500.dgn	DRAWN -	REVISED -	793			(40, 112)BR-1	BOND	95	4	
MODELNAME*	PLOT SCALE = 1/8" = 1' / in.	CHECKED -	REVISED -			CONTRACT NO. 76967		ILLINOIS FED. AID PROJECT		
	PLOT DATE = 1/12/2017	DATE -	REVISED -			SCALE: NONE	SHEET 2 OF 6 SHEETS	STA.	TO STA.	

80% FEDERAL
20% STATE

CONSTR. CODE

CODE NO.	ITEM	UNIT	RURAL	
			TOTAL QUANTITY	BRIDGE 0011 003-0062
50100300	REMOVAL OF EXISTING STRUCTURES NO. 1	EACH	1	1
50100400	REMOVAL OF EXISTING STRUCTURES NO. 2	EACH	1	1
50105220	PIPE CULVERT REMOVAL	FOOT	73	73
50200100	STRUCTURE EXCAVATION	CU YD	1,660	1,660
50300100	FLOOR DRAINS	EACH	16	16
50300225	CONCRETE STRUCTURES	CU YD	853.7	853.7
50300255	CONCRETE SUPERSTRUCTURE	CU YD	1,542.7	1,542.7
50300260	BRIDGE DECK GROOVING	SQ YD	4,690	4,690
50300280	CONCRETE ENCASEMENT	CU YD	9.1	9.1
50300300	PROTECTIVE COAT	SQ YD	6,150	6,150
50301350	CONCRETE SUPERSTRUCTURE (APPROACH SLAB)	CU YD	92.1	92.1
50500105	FURNISHING AND ERECTING STRUCTURAL STEEL	LSUM	1	1
50500505	STUD SHEAR CONNECTORS	EACH	15,714	15,714
50800205	REINFORCEMENT BARS, EPOXY COATED	POUND	528,770	528,770

119

FILE NAME *	USER NAME = bbongman	DESIGNED -	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	F.A.P. 793 (IL 143) SUMMARY OF QUANTITIES		F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
\\Transportation\3098\CADD SHEETS\0876967-shr-900.dgn		DRAWN -	REVISED -				793	140, 112/BR-1	BCND	95	5
MODELNAME*	PLOT SCALE = 100.0000 "/ in.	CHECKED -	REVISED -				SCALE: NONE	SHEET 3 OF 6 SHEETS	STA.	TO STA.	ILLINOIS FED. AID PROJECT
	PLOT DATE = 1/11/2017	DATE -	REVISED -								

80% FEDERAL
20% STATE

CONSTR. CODE

RURAL

CODE NO.	ITEM	UNIT	TOTAL QUANTITY	BRIDGE	
				0011	003-0062
50800530	MECHANICAL SPLICERS	EACH	900	900	
51201600	FURNISHING STEEL PILES HP12X53	FOOT	9,246	9,246	
51201610	FURNISHING STEEL PILES HP12X63	FOOT	3,216	3,216	
51202305	DRIVING PILES	FOOT	12,462	12,462	
51203600	TEST PILE STEEL HP12X53	EACH	3	3	
51203610	TEST PILE STEEL HP12X63	EACH	1	1	
51500100	NAME PLATES	EACH	1	1	
52000220	FINGER PLATE EXPANSION JOINT, 6"	FOOT	64	64	
52000600	FABRIC REINFORCED ELASTOMERIC TROUGH	FOOT	77	77	
52100030	ELASTOMERIC BEARING ASSEMBLY, TYPE III	EACH	12	12	
52100520	ANCHOR BOLTS, 1"	EACH	24	24	
52100530	ANCHOR BOLTS, 1 1/4"	EACH	192	192	
54201069	PIPE CULVERTS, CLASS D, TYPE 2 24"	FOOT	124	124	
54215559	METAL END SECTIONS 24"	EACH	4	4	

FILE NAME =	USER NAME = bbergman	DESIGNED -	REVISED -
W:\Transportation\3898\CADD SHEETS\0876967-sht-SGD.dgn		DRAWN -	REVISED -
	PLOT SCALE = 1/8"=1'-0"	CHECKED -	REVISED -
RMODELNAME =	PLOT DATE = 1/11/2017	DATE -	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

F.A.P. 793 (IL 143)
SUMMARY OF QUANTITIES

SCALE: NONE SHEET 4 OF 6 SHEETS STA. TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
793	140, 112/BR-1	BOND	95	6
CONTRACT NO. 76967			ILLINOIS FED. AID PROJECT	

80% FEDERAL
20% STATE

CONSTR. CODE

CODE NO.	ITEM	UNIT	RURAL	
			TOTAL QUANTITY	BRIDGE 0011 003-0062
58700300	CONCRETE SEALER	SQ FT	848	848
59100100	GEOCOMPOSITE WALL DRAIN	SQ YD	58	58
* 63000001	STEEL PLATE BEAM GUARDRAIL, TYPE A, 6 FOOT POSTS	FOOT	750.0	750.0
* 63100085	TRAFFIC BARRIER TERMINAL, TYPE 6	EACH	4	4
* 63100167	TRAFFIC BARRIER TERMINAL, TYPE 1 (SPECIAL) TANGENT	EACH	4	4
63200310	GUARDRAIL REMOVAL	FOOT	634	634
66600105	FURNISHING AND ERECTING RIGHT OF WAY MARKERS	EACH	23	23
67000400	ENGINEER'S FIELD OFFICE, TYPE A	CAL MO	20	20
67100100	MOBILIZATION	LSUM	1	1
X7015005	CHANGEABLE MESSAGE SIGN	CAL DA	240	240
* 72000100	SIGN PANEL - TYPE 1	SQ FT	6	6
* 72400310	REMOVE SIGN PANEL - TYPE 1	SQ FT	6	6
* 72501000	TERMINAL MARKER - DIRECT APPLIED	EACH	4	4
* 72800100	TELESCOPING STEEL SIGN SUPPORT	FOOT	24	24

* SPECIALTY ITEM

FILE NAME =	USER NAME = bbergman	DESIGNED -	REVISED -
\\transportation\3890\CADD SHEETS\076967-shr-500.dgn		DRAWN -	REVISED -
	PLOT SCALE = 1/8"=1'-0"	CHECKED -	REVISED -
MODELNAME =	PLOT DATE = 1/19/2017	DATE -	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

F.A.P. 793 (IL 143)
SUMMARY OF QUANTITIES

SCALE: NONE SHEET 5 OF 6 SHEETS STA. TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
793	140, 112)BR-1	BOND	95	7
CONTRACT NO. 76967			[ILLINOIS] FED. AID PROJECT	

80% FEDERAL
20% STATE

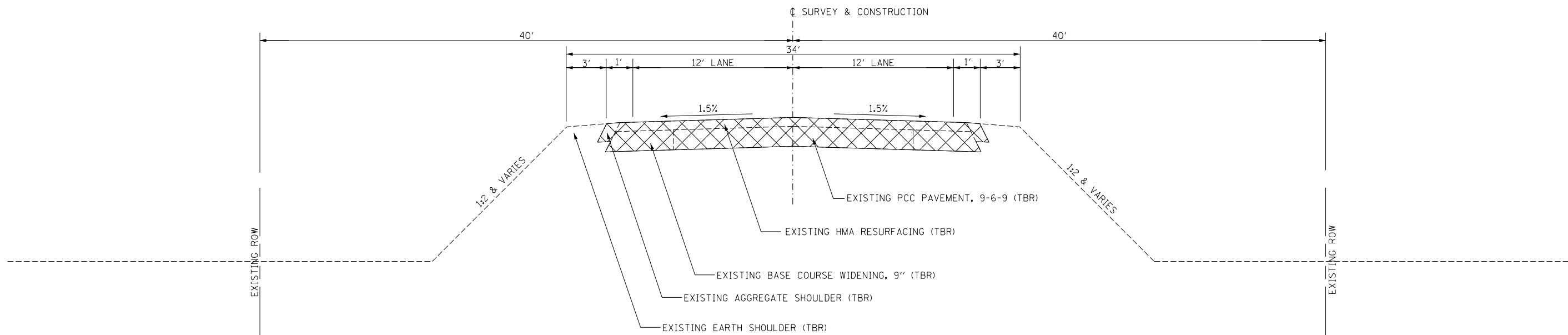
CONSTR. CODE

RURAL

CODE NO.	ITEM	UNIT	TOTAL QUANTITY	CONSTR. CODE	
				BRIDGE	0011 003-0062
* 78000200	THERMOPLASTIC PAVEMENT MARKING - LINE 4"	FOOT	2,668		2,668
* 78003110	PREFORMED PLASTIC PAVEMENT MARKING, TYPE B - LINE 4"	FOOT	3,182		3,182
* 78100100	RAISED REFLECTIVE PAVEMENT MARKER	EACH	16		16
* 78200005	GUARDRAIL REFLECTORS, TYPE A	EACH	7		7
* 78200011	BARRIER WALL REFLECTORS, TYPE C	EACH	10		10
X5210150	HIGH LOAD MULTI-ROTATIONAL BEARINGS, GUIDED EXPANSION, 400K	EACH	36		36
X5210330	HIGH LOAD MULTI-ROTATIONAL BEARINGS, FIXED - 400K	EACH	12		12
X5860110	GRANULAR BACKFILL FOR STRUCTURES	CU YD	120		120
X6660445	RIGHT OF WAY AND PROPERTY CORNERS	EACH	3		3
X7010216	TRAFFIC CONTROL AND PROTECTION, (SPECIAL)	LSUM	1		1
X7830070	GROOVING FOR RECESSED PAVEMENT MARKING 5"	FOOT	3,182		3,182
Z0013798	CONSTRUCTION LAYOUT	LSUM	1		1
Z0018002	DRAINAGE SCUPPERS, DS-11	EACH	36		36
φ 20076600	TRAINEES	Hour	2000		2000
Z0033700	LONGITUDINAL JOINT SEALANT	FOOT	3,507		3,507
φ 20076604	TRAINEES TRAINING PROGRAM GRADUATE	Hour	2000		2000
Z0046304	PIPE UNDERDRAINS FOR STRUCTURES 4"	FOOT	150		150

* SPECIALTY ITEM
φ 0042

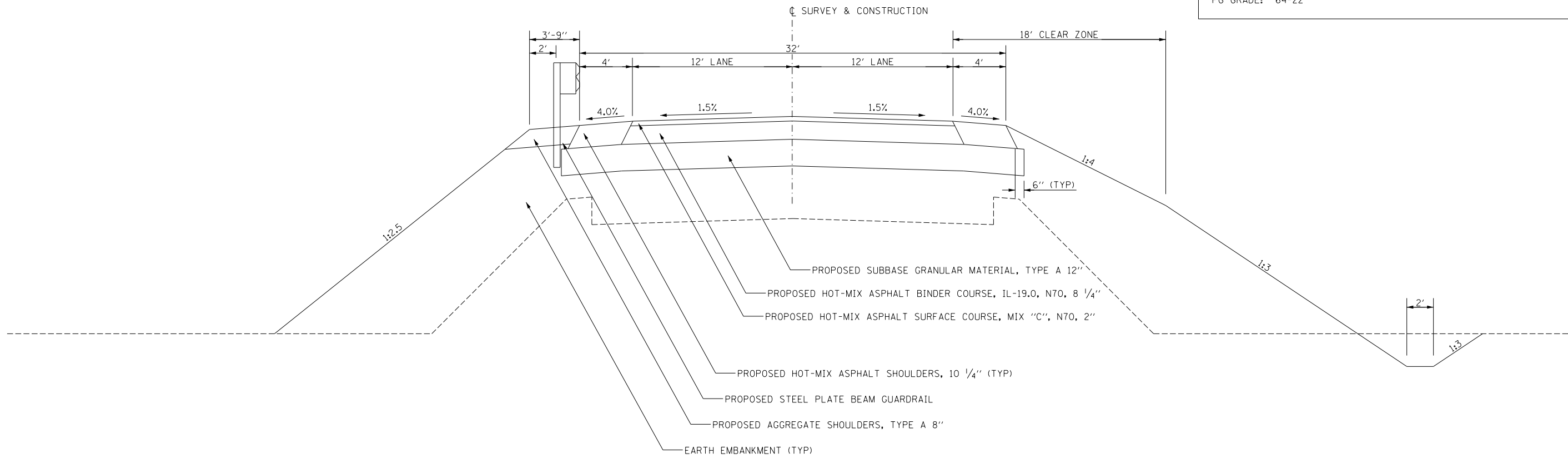
FILE NAME =	USER NAME = bborgman	DESIGNED -	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	F.A.P. 793 (IL 143) SUMMARY OF QUANTITIES	F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.	
V:\Transportation\3898\CAOD SHEETS\0878\RB7-sht-500.dgn		DRAWN -	REVISED -			793	140, 112IBR-1		BOND	95	8
#MODELNAME#	PLOT SCALE = 1/8" = 100.0000' / in.	CHECKED -	REVISED -			SCALE: NONE		SHEET 6 OF 6 SHEETS		STA. TO STA.	
	PLOT DATE = 1/19/2017	DATE -	REVISED -			ILLINOIS FED. AID PROJECT CONTRACT NO. 76967					



EXISTING TYPICAL SECTION

STA 372+00 TO STA 379+94
 STA 379+94 TO STA 391+23 BRIDGE OMISSION
 STA 391+23 TO STA 398+00

STRUCTURAL DESIGN INFORMATION	
STRUCTURAL DESIGN TRAFFIC:	YEAR 2027
PV=1,700	SU=95 MU=200
ROAD/STREET CLASSIFICATION:	CLASS III
PERCENT OF STRUCTURAL DESIGN TRAFFIC IN DESIGN LANE:	
P=50%	S=50% M=50%
SUBGRADE SUPPORT RATING:	FAIR
TRAFFIC FACTOR:	ACTUAL TF=0.87
	MIN TF=3.16
PG GRADE:	64-22



PROPOSED TYPICAL SECTION

STA 372+00 TO STA 375+96

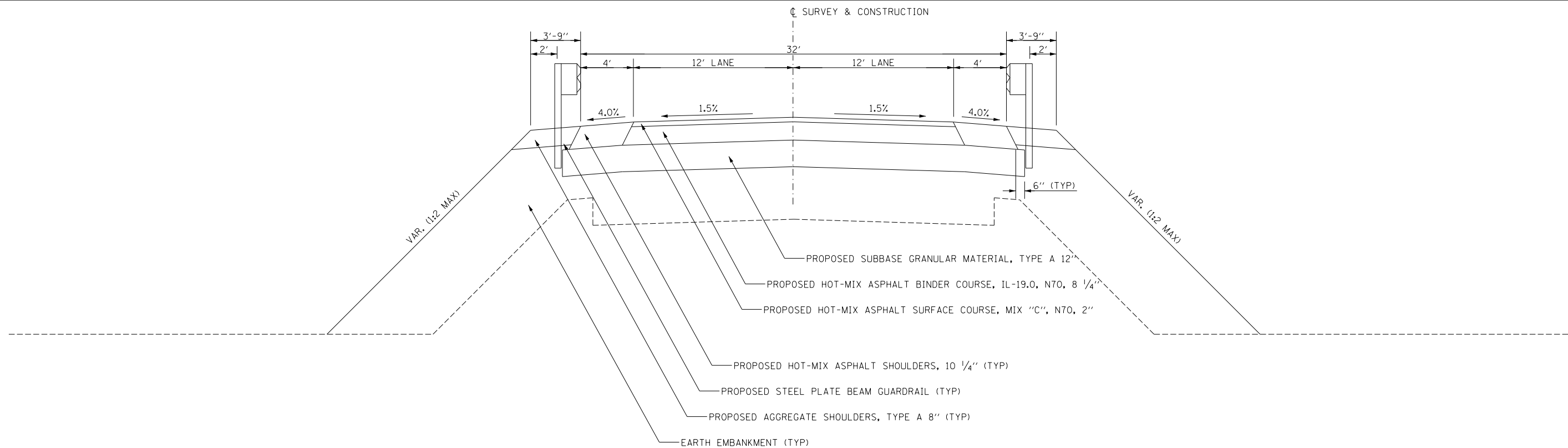
FILE NAME =	USER NAME = bborgmen	DESIGNED -	REVISED -
V:\Transportation\3890\CADD SHEETS\0876967-typical.dgn		DRAWN -	REVISED -
\$MODELNAME\$	PLOT SCALE = 20.0000' / in.	CHECKED -	REVISED -
	PLOT DATE = 1/11/2017	DATE -	REVISED -

**STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION**

**F.A.P. 793 (IL 143)
 ROADWAY TYPICAL SECTIONS**

SCALE: N/A SHEET 1 OF 2 SHEETS STA. TO STA.

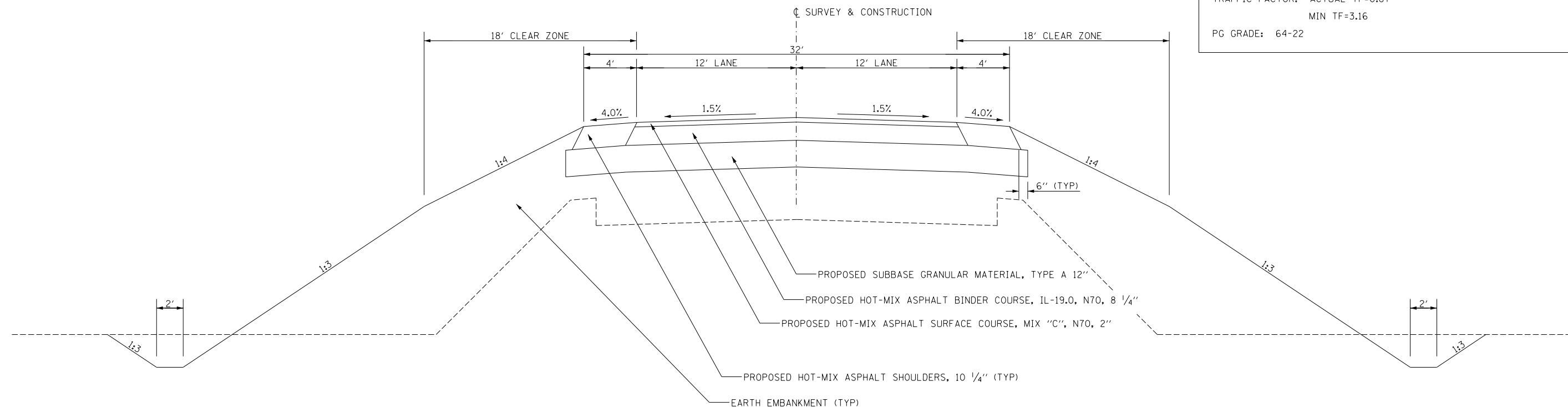
F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
793	(40,112)BR-1	BOND	95	9
CONTRACT NO. 76967				
ILLINOIS FED. AID PROJECT				



PROPOSED TYPICAL SECTION

STA 375+96 TO STA 377+99
 STA 377+99 TO STA 392+10 BRIDGE AND BRIDGE APPROACH PAVEMENT OMISSION
 STA 392+10 TO STA 394+12 LT
 STA 392+10 TO STA 393+00 RT

STRUCTURAL DESIGN INFORMATION	
STRUCTURAL DESIGN TRAFFIC: YEAR 2027	
PV=1,700 SU=95 MU=200	
ROAD/STREET CLASSIFICATION: CLASS III	
PERCENT OF STRUCTURAL DESIGN TRAFFIC IN DESIGN LANE:	
P=50% S=50% M=50%	
SUBGRADE SUPPORT RATING: FAIR	
TRAFFIC FACTOR: ACTUAL TF=0.87	
MIN TF=3.16	
PG GRADE: 64-22	



PROPOSED TYPICAL SECTION

STA 394+12 TO STA 398+00 LT
 STA 393+00 TO STA 398+00 RT

FILE NAME =	USER NAME = bborgmen	DESIGNED -	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	F.A.P. 793 (IL 143) ROADWAY TYPICAL SECTIONS		F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.	
V:\Transportation\3890\CADD SHEETS\0876967-typical.dgn		DRAWN -	REVISED -		SCALE: N/A	SHEET 2 OF 2 SHEETS	STA.	TO STA.	793	(40,112)BR-1	BOND	95 10
\$MODELNAME\$		CHECKED -	REVISED -									
	PLOT DATE = 1/11/2017	DATE -	REVISED -									CONTRACT NO. 76967

TREE REMOVAL

STATION	OFFSET	TREE REMOVAL	
		6 TO 15 UNITS	OVER 15 UNITS
		UNITS	
371+47.61	30.29' RT		16
372+35.88	27.90' RT		18
372+48.24	29.03' RT	14	
372+56.32	28.40' RT		24
372+91.43	25.82' RT		18
373+09.59	26.43' RT	10	
373+58.48	26.39' RT	14	
373+87.04	23.63' RT		20
374+91.57	24.92' RT		16
375+38.26	27.31' RT		16
375+61.42	26.97' RT		30
375+84.23	27.91' RT		22
376+49.29	30.18' RT		20
376+79.75	29.03' RT		20
377+19.45	26.07' RT	14	
378+16.90	32.05' RT		20
378+20.70	37.65' RT	8	
378+23.08	28.28' RT		16
378+29.19	56.87' RT		24
378+34.11	52.14' RT	14	
378+35.48	47.52' RT	6	
378+35.78	54.68' RT	14	
378+36.00	44.26' RT	8	
378+38.72	49.49' RT		24
378+39.07	51.59' RT		28
378+43.18	47.15' RT	12	
378+43.95	40.85' RT		20
378+93.48	34.81' RT		16
378+97.12	36.47' RT	14	
379+16.14	34.92' RT	10	
379+20.67	37.61' RT	8	
379+25.16	37.13' RT	8	
381+50.54	30.57' LT	10	
381+86.25	38.74' LT	10	
382+19.31	42.10' LT	10	
382+29.53	39.66' LT		30

STATION	OFFSET	TREE REMOVAL	
		6 TO 15 UNITS	OVER 15 UNITS
		UNITS	
382+36.08	49.44' LT		30
382+62.28	38.46' LT		20
382+74.01	37.86' LT	6	
382+79.13	47.88' LT	10	
382+82.53	44.34' LT	12	
382+83.89	39.65' LT	12	
383+53.92	40.94' LT		20
383+56.80	32.07' LT	10	
383+97.14	42.40' LT		30
384+35.88	38.76' LT	12	
384+38.88	33.54' LT	6	
384+52.25	45.64' LT	10	
384+53.08	33.97' LT	6	
384+84.42	40.67' LT		30
385+00.97	38.94' LT		18
385+12.81	41.10' LT	12	
385+13.02	47.32' LT		18
385+20.20	39.22' LT	6	
385+49.11	40.29' LT	12	
385+56.96	42.40' LT	6	
385+62.01	43.95' LT	12	
385+69.40	36.74' LT	12	
385+85.44	49.53' LT	12	
386+36.37	42.33' LT	10	
386+41.83	42.71' LT		30
386+43.88	48.98' LT		24
386+53.73	46.10' LT	8	
386+58.62	43.02' LT	8	
386+69.15	40.19' LT		40
386+80.73	42.71' LT		16
387+05.10	47.64' LT		18
387+29.22	40.02' LT		16
387+35.24	48.49' LT	12	
387+47.78	40.46' LT	12	
387+54.27	48.24' LT	6	
387+65.77	36.50' LT	8	

STATION	OFFSET	TREE REMOVAL	
		6 TO 15 UNITS	OVER 15 UNITS
		UNITS	
388+06.69	42.62' LT		16
388+15.24	38.00' LT	14	
388+33.08	25.73' LT		18
388+44.18	27.59' LT	14	
388+53.89	40.52' LT	8	
388+56.32	30.43' LT		18
388+57.94	33.03' LT	10	
388+90.16	48.67' RT	8	
389+09.42	44.31' LT	6	
389+12.52	43.89' LT		20
389+13.10	34.51' RT		16
389+14.64	40.51' RT		16
389+17.45	41.90' RT		24
389+19.33	45.56' LT		30
389+22.18	44.68' RT	8	
389+30.37	42.97' LT		48
389+34.94	46.18' LT	14	
390+11.38	49.31' LT	8	
390+12.39	51.24' LT	8	
390+16.69	48.32' LT	14	
390+24.85	51.62' LT	14	
390+29.52	41.06' LT	12	
390+31.58	28.34' LT		18
390+43.21	28.39' LT	6	
390+55.18	28.59' LT	8	
390+57.03	38.29' LT	8	
390+84.16	24.56' LT		20
390+99.04	25.86' LT		30
391+40.79	35.74' LT	12	
391+50.45	36.00' LT	6	
391+60.25	34.02' LT	14	
391+61.16	32.11' LT		20
391+90.40	41.33' LT	8	
392+02.71	29.66' LT	12	
392+19.51	29.96' LT	12	
392+25.55	34.63' LT		16

STATION	OFFSET	TREE REMOVAL	
		6 TO 15 UNITS	OVER 15 UNITS
		UNITS	
392+26.58	32.17' LT	6	
392+27.88	25.60' LT		30
392+34.02	31.99' LT	12	
392+36.66	34.97' LT		16
392+43.13	31.13' LT	12	
392+72.80	33.71' LT	10	
392+79.25	29.10' LT		26
392+87.16	29.73' LT	8	
392+88.79	32.58' LT	6	
392+98.04	34.49' LT	6	
392+98.21	24.57' LT		18
392+99.20	34.49' LT		18
393+16.15	24.27' LT	8	
393+19.65	36.09' LT	6	
393+24.27	23.83' LT	14	
393+32.97	29.70' LT		16
393+36.85	28.86' LT		20
393+44.46	27.94' LT		30
393+48.21	35.15' LT	6	
395+06.34	59.64' LT		30
395+08.67	45.11' LT	10	
395+08.91	48.52' LT		36
395+17.79	52.83' LT	6	
395+24.90	53.21' LT	6	
395+25.24	46.64' LT	8	
395+62.65	39.01' LT	10	
395+65.90	33.13' LT	10	
395+70.21	30.61' LT		24
395+74.66	30.11' LT	8	
395+80.69	31.48' LT		18
395+86.65	32.20' LT	10	
396+02.91	37.15' LT	6	
396+03.81	38.91' LT	6	
396+15.87	30.71' LT	14	
396+24.39	39.25' LT	8	
396+33.59	32.27' LT	10	

STATION	OFFSET	TREE REMOVAL	
		6 TO 15 UNITS	OVER 15 UNITS
		UNITS	
396+49.79	27.42' LT	8	
396+50.73	26.79' LT		20
396+56.88	38.44' LT	10	
396+70.12	39.97' LT	8	
396+72.09	41.39' LT	8	
396+97.30	40.86' LT	10	
397+07.08	36.37' LT		18
397+09.58	36.35' LT	12	
397+47.87	34.11' LT	6	
397+50.46	35.81' LT	10	
397+50.83	36.23' LT	10	
397+60.41	29.68' LT		20
397+68.90	37.63' LT	6	
397+70.04	26.44' LT	10	
397+72.15	27.05' LT	12	
397+78.67	32.88' LT	12	
397+86.67	33.26' LT		16
397+94.70	38.00' LT		24
397+97.38	23.66' LT	14	
397+97.90	37.01' LT	12	
398+00.10	30.20' LT	12	
398+03.22	27.68' LT		20
398+06.19	28.61' LT	10	
398+13.42	44.82' LT	6	
398+19.79	44.00' LT	6	
398+25.15	41.43' LT	6	
398+26.87	28.37' LT	14	
398+28.22	23.10' LT	14	
398+35.96	33.33' LT	10	
398+36.78	26.01' LT	8	
398+41.73	29.07' LT	8	
398+45.67	25.63' LT		16
TOTALS		1,076	1,434

TREE REMOVAL, ACRES

STATION TO STATION	SIDE	AREA ACRES	
371+50	381+50	LT	0.77
TOTAL		0.77	
USE		1.00	

TEMPORARY DITCH CHECKS

STATION	SIDE	TEMPORARY DITCH CHECKS FOOT
373+75	RT	14
378+00	RT	14
380+50	RT	14
390+03	RT	14
390+03	LT	14
392+50	RT	14
392+50	LT	14
TOTAL		98

PERIMETER EROSION BARRIER

STATION TO STATION	SIDE	PERIMETER EROSION FOOT	
372+00	389+34	LT	1,790
372+00	375+27	RT	363
375+47	389+34	RT	1,444
390+12	394+82	LT	529
390+12	395+01	RT	553
395+02	398+50	LT	355
395+21	398+00	RT	305
TOTAL		5,339	

TEMPORARY EROSION CONTROL SEEDING

STATION TO STATION	SIDE	TEMPORARY EROSION CONTROL SEEDING (3 APPLICATIONS) POUND	
372+00	378+18	RT	240
372+00	378+18	LT	150
378+18	389+34	RT	408
378+18	389+34	LT	393
390+12	391+91	RT	69
390+12	391+91	LT	75
391+91	398+00	RT	219
391+91	398+00	LT	210
TOTALS		1,764	
USE		1,764	

ENTRANCE SCHEDULE

STATION	SIDE	WIDTH	AGGREGATE SURFACE COURSE, TYPE A 8" SQ YD
375+36.55	RT	20'	233.7
394+99.29	LT	20'	180.9
395+03.57	RT	20'	194.6
TOTAL			609.2
USE			610

PAVEMENT REMOVAL

STATION TO STATION	PAVEMENT REMOVAL SQ YD	
372+00.00	379+95.00	2,296.7
391+22.00	398+00.00	1,958.7
TOTALS		4,255.4
USE		4,256

INLET AND PIPE PROTECTION

STATION	SIDE	INLET AND PIPE PROTECTION EACH
375+05	RT	1
395+38	RT	1
398+50	LT	1
TOTAL		3

PAVEMENT SCHEDULE

STATION TO STATION	SUBBASE GRANULAR MATERIAL, TYPE A 12" SQ YD	BITUMINOUS MATERIALS (PRIME COAT) POUND	BITUMINOUS MATERIALS (TACK COAT) POUND	HOT-MIX ASPHALT BINDER COURSE, IL 19.0, N70 TON	HOT-MIX ASPHALT SURFACE COURSE, MIX "C", N70 TON	PAVEMENT CONNECTOR (HMA) FOR BRIDGE APPROACH SLAB SQ YD	LONGITUDINAL JOINT SEALANT FOOT
372+00.00	377+89.00	2,246.9	3,785.6	1,090.1	756.5	177.1	1767.0
377+89.00	377+99.00					35.6	
392+10.00	392+20.00					35.6	
392+20.00	398+00.00	2,212.6	3,727.7	1,073.4	745.0	174.4	1740.0
TOTALS		4,459.5	7,513.3	2,163.5	1,501.5	351.5	3,507.0
USE		4,460	7,514	2,164	1,502	352	3,507

PIPE CULVERT SCHEDULE

STATION	SIDE	TYPE	STANDARD	PIPE CULVERTS, CLASS D, TYPE 2 24" FOOT	METAL END SECTIONS 24" EACH
375+36.55	RT	PIPE CULVERT W/ END SECTIONS	542401	64	2
395+03.57	RT	PIPE CULVERT W/ END SECTIONS	542401	60	2
TOTALS				124	4

EARTHWORK

STATION TO STATION	EARTH EXCAVATION	EXCAVATION TO BE USED IN EMBANKMENT ADJUSTED FOR SHRINKAGE *	EMBANKMENT	BALANCE WASTE (+) OR SHORTAGE (-) CU YD	
BEGINNING OF PROJECT TO PROPOSED BACK OF ABUTMENT					
372+00.00	378+28.50	608.0	456.0	4,432.8	-3,976.8
PROPOSED BACK OF ABUTMENT TO LIMITS OF EXCAVATION					
378+28.50	380+10.00	4,303.9	3,227.9	80.0	+3,147.9
BRIDGE OMISSION					
LIMITS OF EXCAVATION TO PROPOSED BACK OF ABUTMENT					
390+10.00	391+80.50	1,526.9	1,145.2	90.6	+1,054.6
PROPOSED BACK OF ABUTMENT TO END OF PROJECT					
391+80.50	398+50.00	1,078.7	809.0	3,820.7	-3,011.7
TOTALS		7,517.5	5,638.1	8,424.1	-2,786.0
USE		7,520	5,630	8,430	-2,790

SEEDING SCHEDULE

STATION TO STATION	SIDE	SEEDING, CLASS 2 ACRE	SEEDING, CLASS 4B ACRE	NITROGEN FERTILIZER NUTRIENT POUND	PHOSPHORUS FERTILIZER NUTRIENT POUND	POTASSIUM FERTILIZER NUTRIENT POUND	MULCH, METHOD 2 ACRE	HEAVY DUTY EROSION CONTROL BLANKET SQ YD	
372+00	378+18	RT	0.80		72.0	72.0	72.0	0.12	2,288.2
372+00	378+18	LT	0.41	0.09	45.0	45.0	45.0		2,451.7
378+18	389+34	RT		1.36	122.4	122.4	122.4	1.14	643.8
378+18	389+34	LT		1.31	117.9	117.9	117.9	1.21	
390+12	391+91	RT		0.23	20.7	20.7	20.7	0.09	464.6
390+12	391+91	LT		0.25	22.5	22.5	22.5	0.14	428.6
391+91	398+00	RT	0.73		65.7	65.7	65.7	0.14	2,207.8
391+91	398+50	LT	0.70		63.0	63.0	63.0	0.12	2,047.0
TOTALS			2.64	3.24	529.2	529.2	529.2	2.96	10,531.7
USE			2.75	3.25	530	530	530	3.00	10,532

*SHRINKAGE FACTOR = 25%

GUARDRAIL REMOVAL

STATION TO STATION		SIDE	GUARDRAIL
			FOOT
378+28	379+93	LT	165
378+78	379+93	RT	115
391+24	393+14	LT	190
391+24	392+88	RT	164
TOTAL			634

CULVERT REMOVAL

STATION	SIDE	SIZE & TYPE	PIPE CULVERT	REMOVAL OF
			REMOVAL	EXISTING
			FOOT	STRUCTURES NO. 2
				EACH
378+30	RT & LT	24" BOX CULVERT*		1
384+91	RT	18" PIPE CULVERT	11	
384+98	LT	15" PIPE CULVERT	22	
395+01	RT	12" PIPE CULVERT	40	
TOTALS			73	1

* EXISTING 24" BOX CULVERT TO BE REMOVED IS 63' LONG

SIGNING SCHEDULE

STATION	OFFSET	SIDE	REMOVE SIGN	SIGN PANEL	TELESCOPING
			PANEL - TYPE 1	- TYPE 1	STEEL SIGN
			SQ FT	FOOT	SUPPORT
378+07	19'	RT		3	11.8
379+88	19'	RT	3		
391+30	19'	LT	3		
392+02	19'	LT		3	11.8
TOTALS			6	6	23.6
USE			6	6	24

RIGHT OF WAY MARKERS AND PROPERTY CORNERS

STATION	OFFSET	SIDE	FURNISHING AND	RIGHT OF WAY AND
			ERECTING RIGHT	PROPERTY CORNERS
			OF WAY MARKERS	
			EACH	
371+50.00	39.48	RT	1	
371+50.00	40.52	LT	1	
372+50.00	64.49	RT	1	
372+50.00	55.51	LT	1	
376+00.00	79.54	RT	1	1
377+00.00	79.56	RT	1	
378+00.00	55.43	LT	1	
379+50.00	74.59	RT	1	
379+80.01	50.90	LT	1	
380+50.00	49.61	RT	1	
381+90.29	50.37	LT	1	
381+95.91	49.63	RT	1	
390+19.89	51.74	RT	1	
390+19.91	52.23	LT	1	
392+50.00	74.79	RT	1	
392+50.00	75.21	LT	1	
395+17.12	75.17	LT	1	1
395+25.49	74.83	RT	1	1
395+27.95	118.76	RT	1	
395+59.07	55.16	LT	1	
397+50.00	55.14	LT	1	
398+50.00	40.12	LT	1	
408+54.71	98.59	RT	1	
TOTALS			23	3

SHOULDER SCHEDULE

STATION TO STATION		SIDE	AGGREGATE	HOT-MIX ASPHALT
			SHOULDERS, TYPE A	SHOULDERS, 10 1/4"
			SQ FT	SQ YD
372+00.00	378+14.67	LT	115.2	261.8
372+00.00	375+64.66	RT		162.1
375+64.66	378+14.67	RT	46.5	99.7
391+94.33	393+33.89	RT	25.0	50.6
391+94.33	394+46.37	LT	46.5	100.6
393+33.89	398+00.00	RT		207.2
394+46.37	398+00.00	LT		157.2
TOTALS			233.2	1,039.2
USE			234	1,040

PAVEMENT MARKING SCHEDULE

STATION TO STATION		THERMOPLASTIC		PREFORMED PLASTIC	
		PAVEMENT MARKING -		PAVEMENT MARKING -	
		LINE 4"		TYPE B - 4"	
		YELLOW	WHITE	YELLOW	WHITE
		SKIP DASH	SOLID	SKIP DASH	SOLID
		10' - 30'		10' - 30'	
		FOOT			
372+00	377+99	150	1198		
377+99	392+10			360	2822
392+10	398+00	140	1180		
TOTALS		290	2,378	360	2,822
USE		2,668		3,182	

RAISED REFLECTIVE PAVEMENT MARKERS

STATION TO STATION		RAISED	
		REFLECTIVE	
		PAVEMENT MARKER	
		TWO-WAY AMBER MARKER	
		EACH	
372+00	377+99	8	
392+10	398+00	8	
TOTALS		16	

GUARDRAIL SCHEDULE

STATION TO STATION		SIDE	STEEL PLATE BEAM	TRAFFIC BARRIER	TRAFFIC BARRIER
			GUARDRAIL, TYPE	TERMINAL, TYPE 6	TERMINAL, TYPE 1
			A, 6 FOOT POSTS		(SPECIAL)
			FOOT	EACH	TANGENT
372+34.02	378+17.17	LT	487.5	1	1
375+96.62	378+17.17	RT	125.0	1	1
391+91.83	394+12.39	LT	125.0	1	1
391+91.83	392+99.89	RT	12.5	1	1
TOTALS			750.0	4	4

GUARDRAIL & BARRIER WALL REFLECTORS

STATION TO STATION		SIDE	GUARDRAIL	BARRIER WALL	TERMINAL MARKER,
			REFLECTORS, TYPE A	REFLECTORS, TYPE C	DIRECT APPLIED
			EACH		
372+34.02	394+12.39	LT	4	5	2
375+96.62	392+99.89	RT	3	5	2
TOTALS			7	10	4

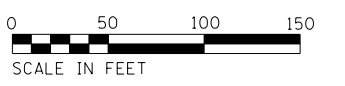
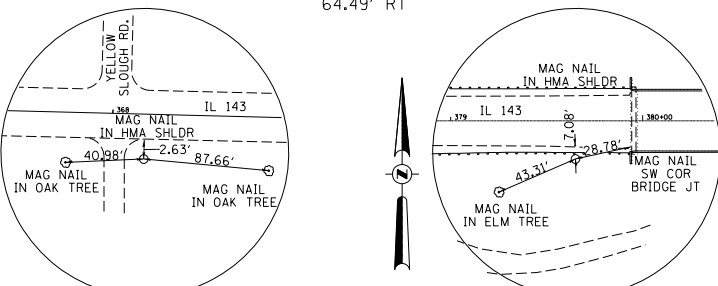
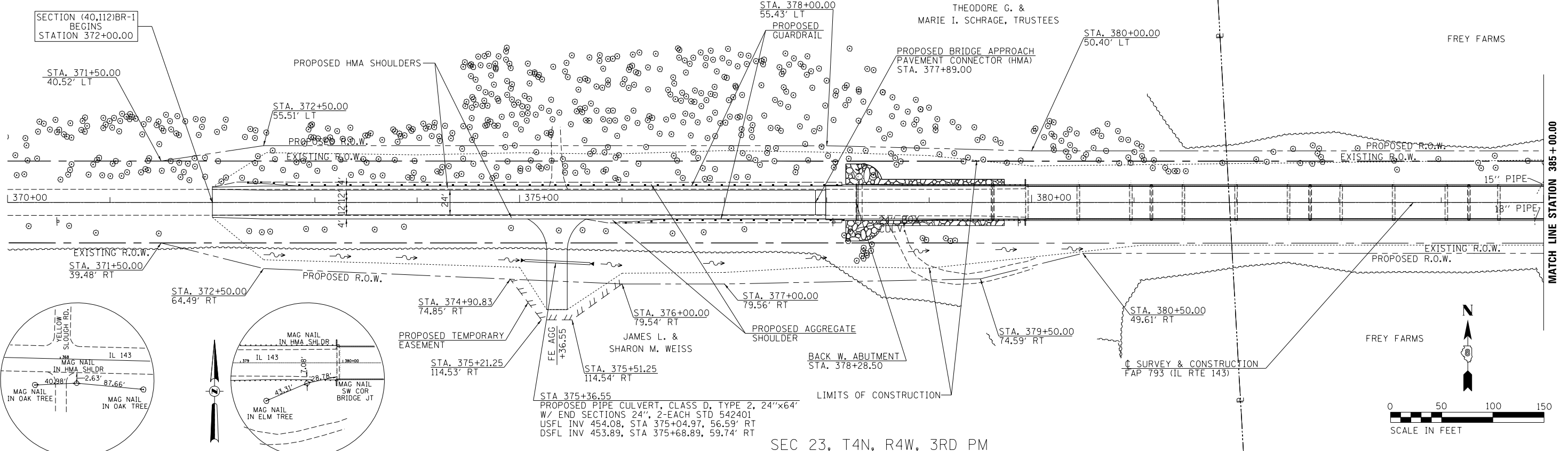
SEC 23, T4N, R4W, 3RD PM

THEODORE G. & MARIE I. SCHRAGE, TRUSTEES

FREY FARMS

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

DATE	
BY	
SURVEYED	
PLOTTED	
GRADES CHECKED	
STRUCTURE	
NOT AT THIS OFFICE	
NO.	
NO.	
NO.	
NO.	

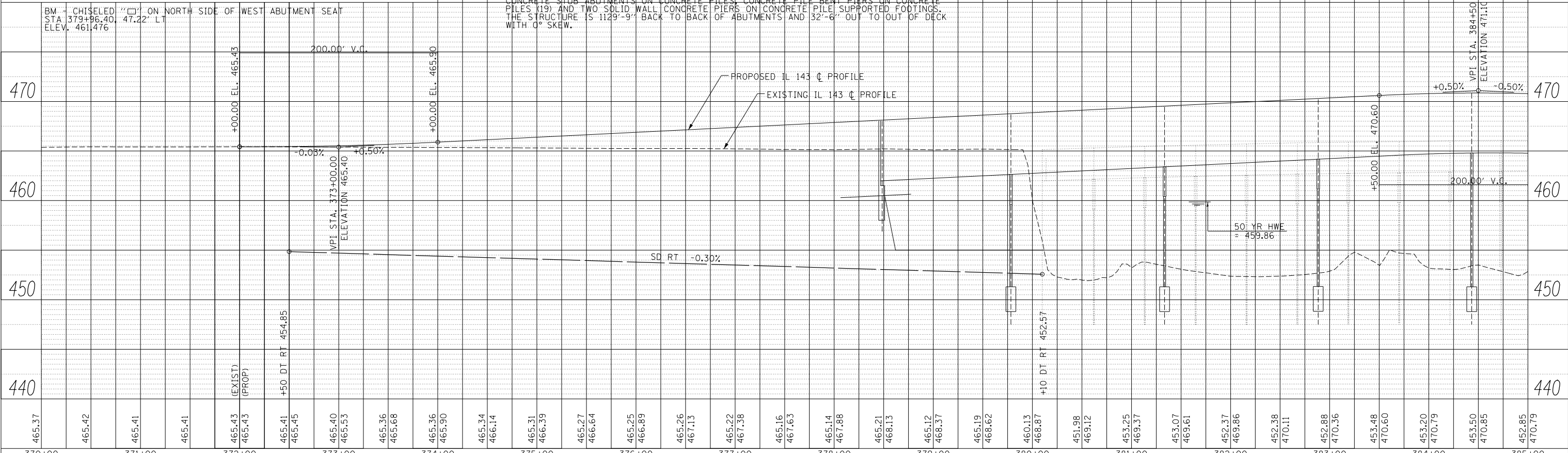


STA 368+16.40, 14.98' RT
I.P. WITH IDOT CAP
N 768,723.9394 E 484,712.4308

STA 379+65.02, 19.90' RT
I.P. WITH IDOT CAP
N 768,689.7786 E 485,860.5578

EXISTING BRIDGE: SN 003-0034 BUILT AS SBI 127A, SECTION 112B IN 1934. STRUCTURE WAS REBUILT AND WIDENED IN 1972 AS FAP 793, SECTION 112BR. THE EXISTING STRUCTURE CONSISTS OF 21 SPANS WITH 20 SIMPLE SPAN RC DECK ON STEEL W-BEAM UNITS (18 WEST, 2 EAST OF MAIN SPAN) AND A SINGLE SPAN STEEL THRU PLATE GIRDER WITH STEEL FLOOR BEAMS AND RC DECK SUPERSTRUCTURE. THE EXISTING SUBSTRUCTURE CONSISTS OF CONCRETE STUB ABUTMENTS ON CONCRETE PILES, CONCRETE PILE BENT PIERS ON CONCRETE PILES (19) AND TWO SOLID WALL CONCRETE PIERS ON CONCRETE PILE SUPPORTED FOOTINGS. THE STRUCTURE IS 1129'-9" BACK TO BACK OF ABUTMENTS AND 32'-6" OUT TO OUT OF DECK WITH 0° SKEW.

PROPOSED BRIDGE: PROPOSED SUPERSTRUCTURE IS A 9-SPAN REINFORCED CONCRETE DECK ON 54" WEB STEEL PLATE GIRDER (COMPOSITE). THE PROPOSED SUBSTRUCTURE UNITS ARE SOLID WALL PIERS WITH PILE SUPPORTED FOOTINGS AND PILE SUPPORTED STUB ABUTMENTS. THE PROPOSED BRIDGE LENGTH IS 1352'-0" BACK TO BACK OF ABUTMENTS AND 35'-2" OUT TO OUT OF DECK, WITH 0° SKEW.



FILE NAME =	USER NAME = bborgman	DESIGNED -	REVISED -
V:\Transportation\389\0\CADD SHEETS\0876967-sht-plnprfl.dgn		DRAWN -	REVISED -
#MODELNAMEs	PLOT SCALE = 100.0000' / in.	CHECKED -	REVISED -
	PLOT DATE = 1/11/2017	DATE -	REVISED -


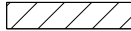
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

F.A.P. 793 (IL 143)
PLAN AND PROFILE

SCALE: 1"=50'-0" SHEET 1 OF 2 SHEETS STA. 372+00.00 TO STA. 385+00.00

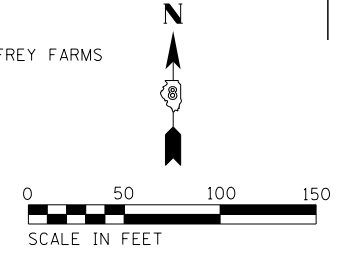
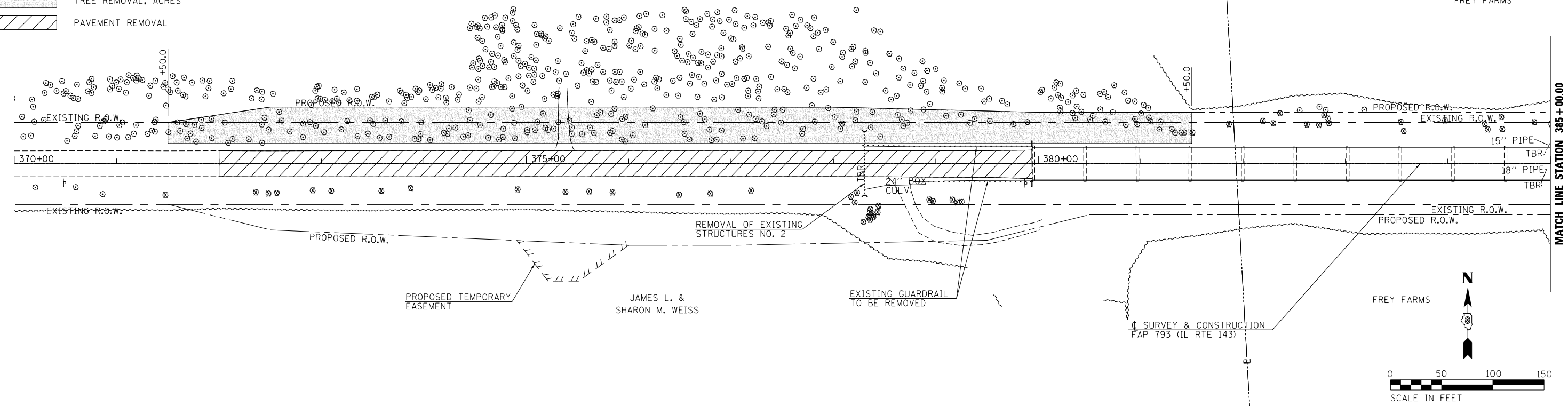
F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
793	(40, 112)BR-1	BOND	95	14
CONTRACT NO. 76967				
ILLINOIS FED. AID PROJECT				

LEGEND


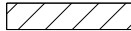
- TBR ITEM TO BE REMOVED
- X TREE REMOVAL
-  TREE REMOVAL, ACRES
-  PAVEMENT REMOVAL

THEODORE G. &
MARIE I. SCHRAGE, TRUSTEES

FREY FARMS



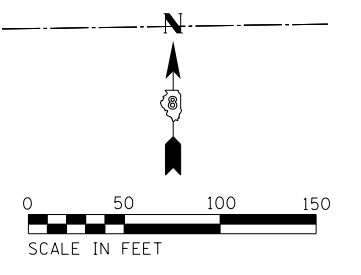
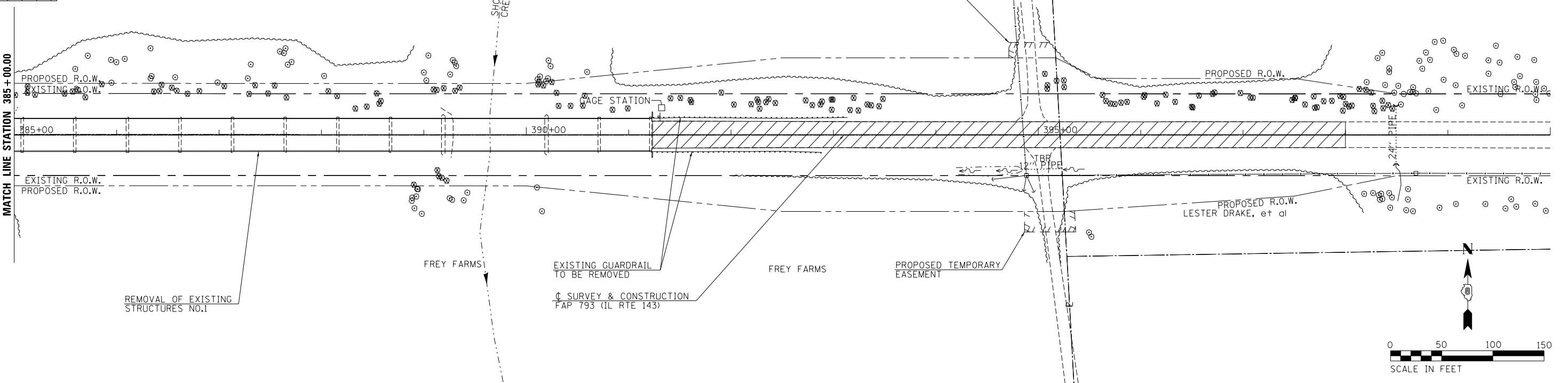
LEGEND

- TBR ITEM TO BE REMOVED
- X TREE REMOVAL
-  TREE REMOVAL, ACRES
-  PAVEMENT REMOVAL

FREY FARMS

FREY FARMS

LESTER DRAKE, et al



FILE NAME = T	USER NAME = CADD SHEETS D	DESIGNED - DRAWN -	REVISED - REVISED -
	PLOT SCALE =	CHECKED -	REVISED -
	PLOT DATE	DATE -	REVISED -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**F.A.P. 793 (IL 143)
REMOVAL PLANS**

SCALE: 1"=50'-0" SHEET NO. 1 OF 1 SHEETS STA. 371+50.00 TO STA. 398+00.00

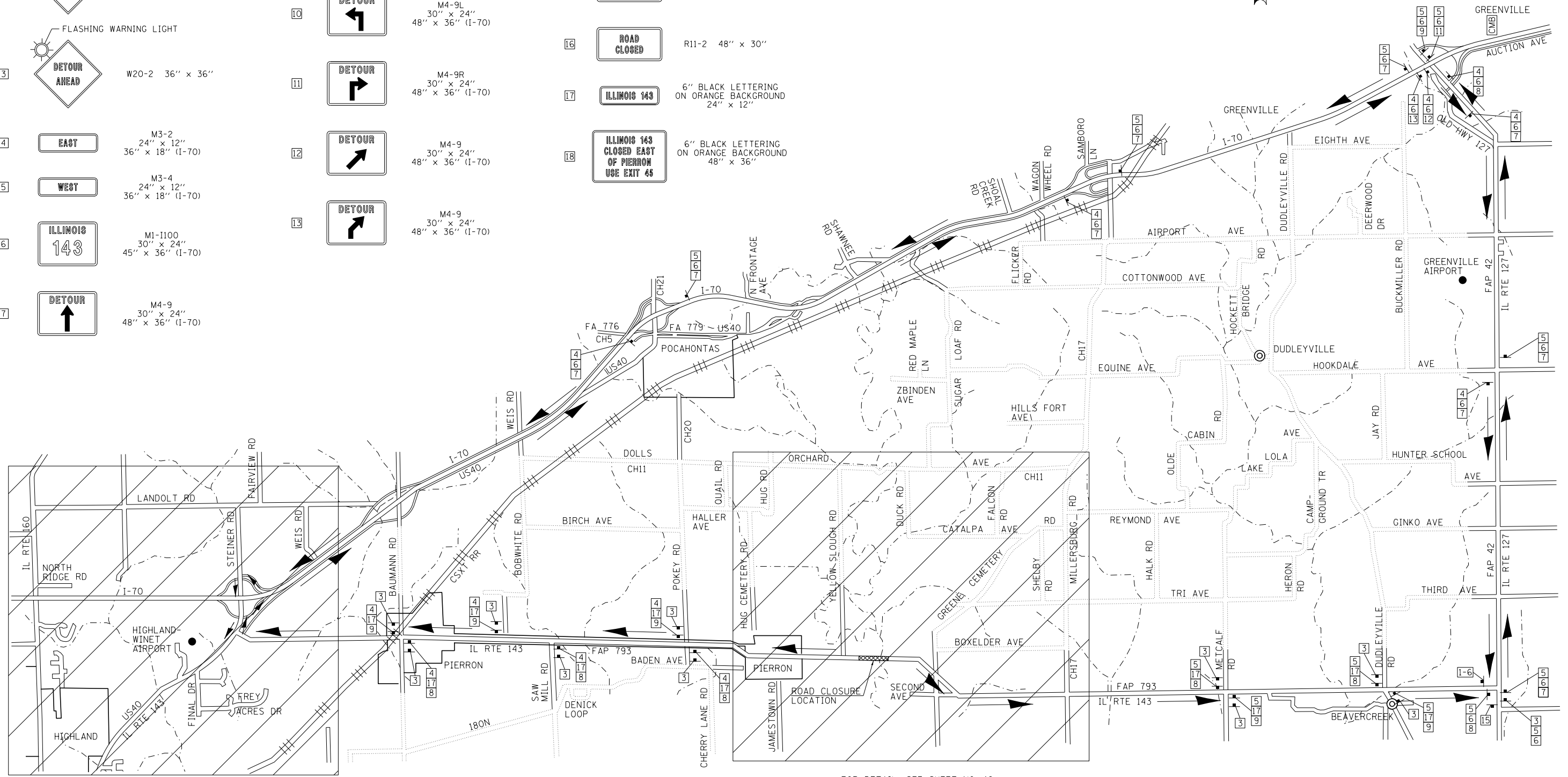
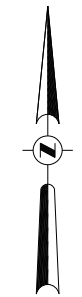
F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
793	(40, 112)BR-1	BOND	95	16
CONTRACT NO. 76967				
ILLINOIS FED. AID PROJECT				

- 1-1 ROAD CLOSED R11-3a(0) 60" x 30"
- 1-2 X MILES AHEAD 1-1 = 1 MILE
1-2 = 2 MILES
1-6 = 6 MILES
- 1-6 LOCAL TRAFFIC ONLY

- 8 DETOUR
- 9 DETOUR
- 10 DETOUR
- 11 DETOUR
- 12 DETOUR
- 13 DETOUR

- 14 ROAD CLOSED 500 FT W20-3 36" x 36"
- 15 END DETOUR M4-8A 24" x 18"
- 16 ROAD CLOSED R11-2 48" x 30"
- 17 ILLINOIS 143 6" BLACK LETTERING ON ORANGE BACKGROUND 24" x 12"
- 18 ILLINOIS 143 CLOSED EAST OF PIERRON USE EXIT 45 6" BLACK LETTERING ON ORANGE BACKGROUND 48" x 36"

- MAP LEGEND
- PROPOSED DETOUR ROUTE
 - POST MOUNTED SIGN
 - TYPE III BARRICADE
 - ROAD CLOSURE LOCATION
 - CHANGEABLE MESSAGE BOARD



FOR DETAIL, SEE SHEET NO. 18

FOR DETAIL, SEE SHEET NO. 19

FILE NAME =	USER NAME = bborgman	DESIGNED - MVM	REVISED -
V:\Transportation\3890\CADD SHEETS\0876967-shr-detour-1.dgn		DRAWN - JCW	REVISED -
\$MODELNAME\$	PLOT SCALE = 6000.00' / in.	CHECKED - MVM	REVISED -
	PLOT DATE = 1/11/2017	DATE - 3/31/16	REVISED -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**F.A.P. 793 (IL 143)
DETOUR PLAN**

SCALE: N/A SHEET 1 OF 3 SHEETS STA. TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
793	(40, 112)BR-1	BOND	95	17
CONTRACT NO. 76967				
ILLINOIS FED. AID PROJECT				

1-1 ROAD CLOSED
 1-2 X MILES AHEAD
 1-6 LOCAL TRAFFIC ONLY

R11-3a(0)
 60"x30"
 1-1 = 1 MILE
 1-2 = 2 MILES
 1-6 = 6 MILES

2 FLASHING WARNING LIGHT
 ROAD CLOSED AHEAD
 W20-3 36" x 36"

3 FLASHING WARNING LIGHT
 DETOUR AHEAD
 W20-2 36" x 36"

4 EAST
 M3-2 24" x 12"
 36" x 18" (I-70)

5 WEST
 M3-4 24" x 12"
 36" x 18" (I-70)

6 ILLINOIS 143
 M1-I100 30" x 24"
 45" x 36" (I-70)

7 DETOUR
 M4-9 30" x 24"
 48" x 36" (I-70)

8 DETOUR
 M4-9L 30" x 24"
 48" x 36" (I-70)

9 DETOUR
 M4-9R 30" x 24"
 48" x 36" (I-70)

10 DETOUR
 M4-9L 30" x 24"
 48" x 36" (I-70)

11 DETOUR
 M4-9R 30" x 24"
 48" x 36" (I-70)

12 DETOUR
 M4-9 30" x 24"
 48" x 36" (I-70)

13 DETOUR
 M4-9 30" x 24"
 48" x 36" (I-70)

14 FLASHING WARNING LIGHT
 ROAD CLOSED 500 FT
 W20-3 36" x 36"

15 END DETOUR
 M4-8A 24" x 18"

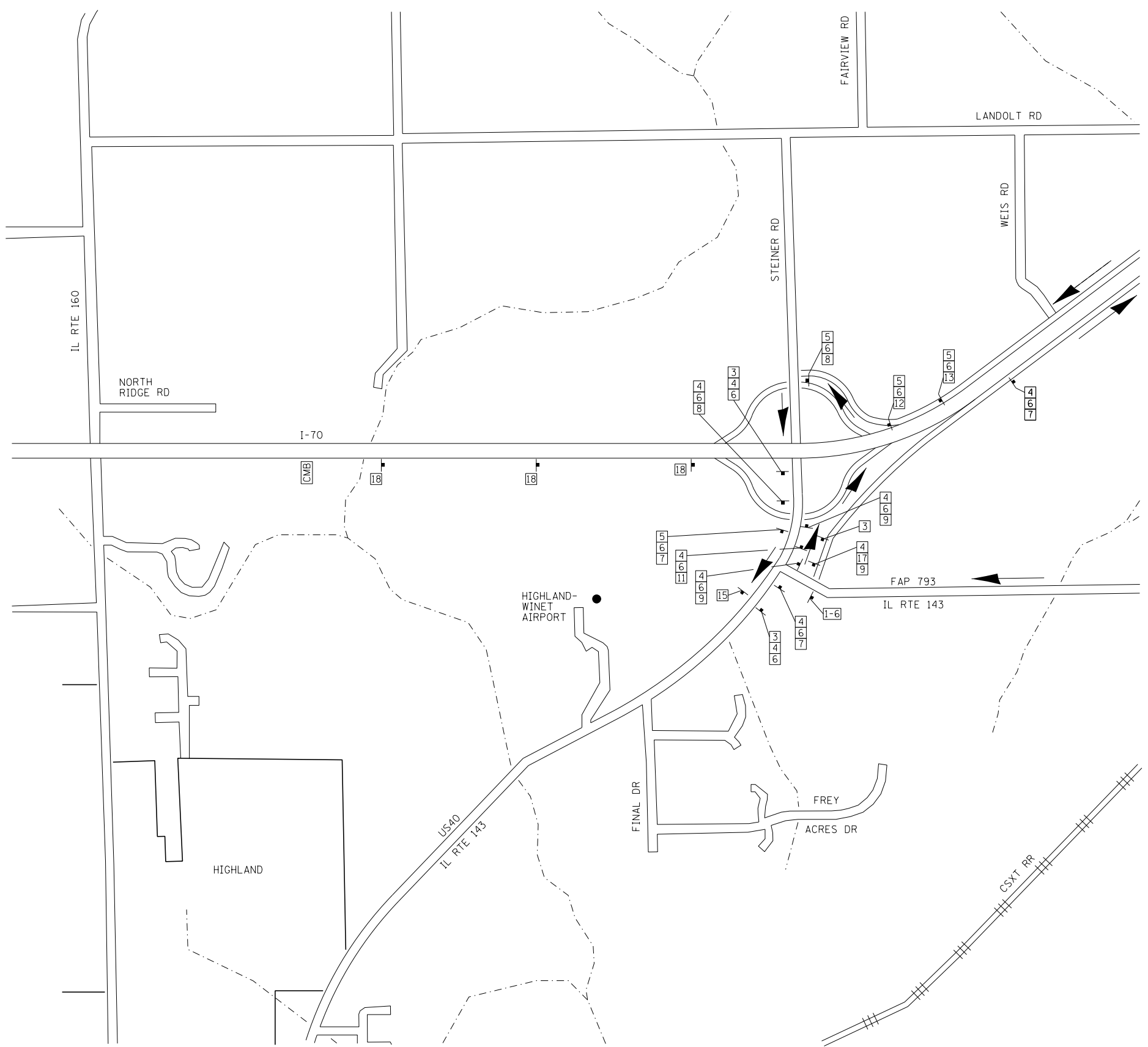
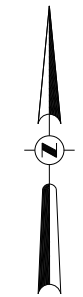
16 ROAD CLOSED
 R11-2 48" x 30"

17 ILLINOIS 143
 6" BLACK LETTERING ON ORANGE BACKGROUND
 24" x 12"

18 ILLINOIS 143 CLOSED EAST OF PIERRON USE EXIT 46
 6" BLACK LETTERING ON ORANGE BACKGROUND
 48" x 36"

MAP LEGEND

- ➔ PROPOSED DETOUR ROUTE
- ▬ POST MOUNTED SIGN
- ⚡ TYPE III BARRICADE
- ▨ ROAD CLOSURE LOCATION
- CMB CHANGEABLE MESSAGE BOARD



FILE NAME =	USER NAME = bborgmen	DESIGNED - MVM	REVISED -
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	PLOT DATE = 1/11/2017	DATE - 3/31/16	REVISED -

STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION

F.A.P. 793 (IL 143)
 DETOUR PLAN

SCALE: N/A SHEET 2 OF 3 SHEETS STA. TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
793	(40, 112)BR-1	BOND	95	18
CONTRACT NO. 76967				
ILLINOIS FED. AID PROJECT				

- 1-1 ROAD CLOSED
- 1-2 X MILES AHEAD
- 1-6 LOCAL TRAFFIC ONLY

R11-3a(0)
60"x30"
1-1 = 1 MILE
1-2 = 2 MILES
1-6 = 6 MILES

- 14 FLASHING WARNING LIGHT
ROAD CLOSED 500 FT
W20-3 36" x 36"

- 15 END DETOUR
M4-8A 24" x 18"

- 16 ROAD CLOSED
R11-2 48" x 30"

- 17 ILLINOIS 143
6" BLACK LETTERING ON ORANGE BACKGROUND
24" x 12"

- 18 ILLINOIS 143 CLOSED EAST OF PIERRON USE EXIT 48
6" BLACK LETTERING ON ORANGE BACKGROUND
48" x 36"

- 2 FLASHING WARNING LIGHT
ROAD CLOSED AHEAD
W20-3 36" x 36"

- 3 FLASHING WARNING LIGHT
DETOUR AHEAD
W20-2 36" x 36"

- 4 EAST
M3-2 24" x 12"
36" x 18" (I-70)

- 5 WEST
M3-4 24" x 12"
36" x 18" (I-70)

- 6 ILLINOIS 143
M1-I100 30" x 24"
45" x 36" (I-70)

- 7 DETOUR
M4-9 30" x 24"
48" x 36" (I-70)

- 8 DETOUR
M4-9L 30" x 24"
48" x 36" (I-70)

- 9 DETOUR
M4-9R 30" x 24"
48" x 36" (I-70)

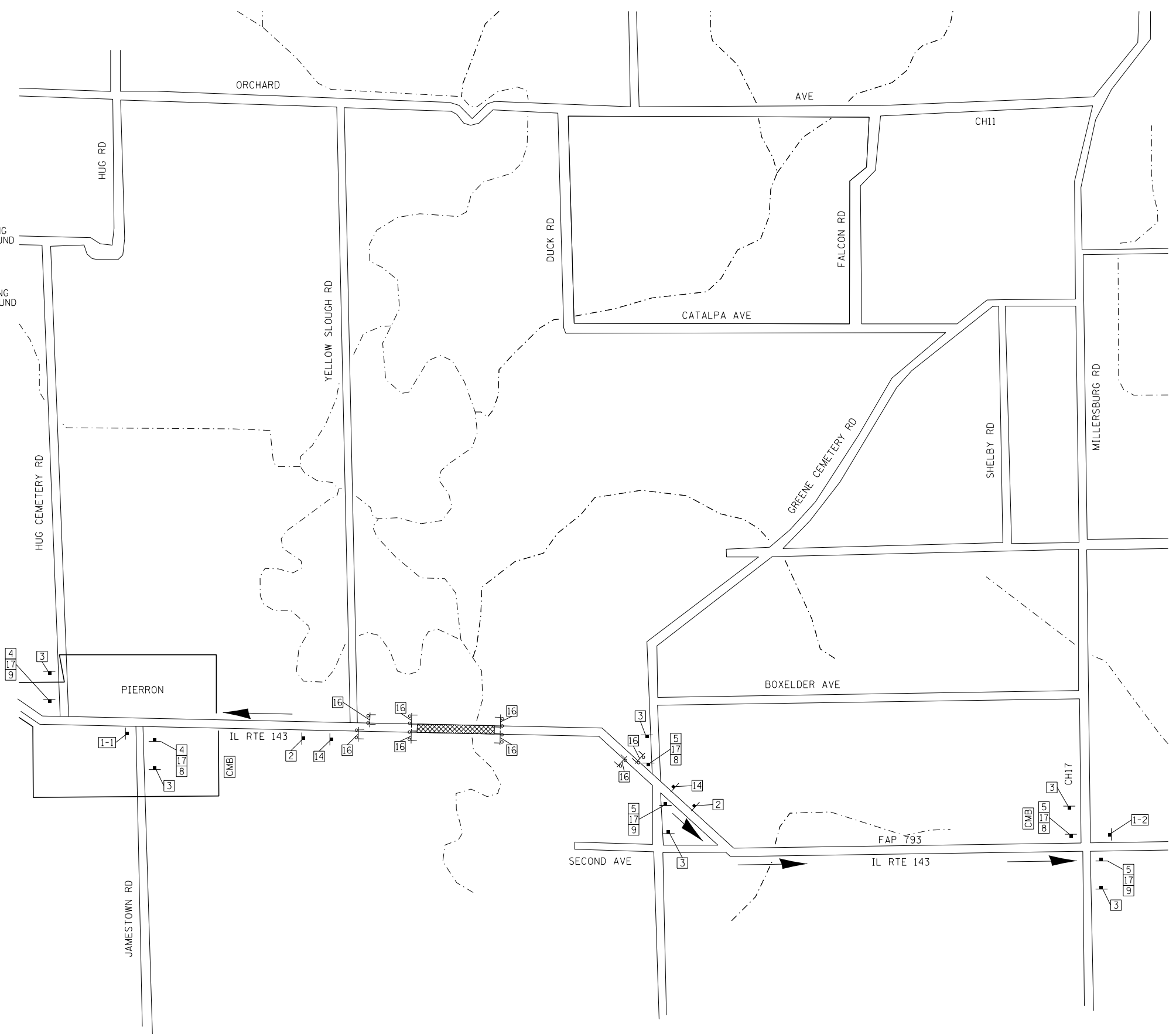
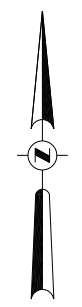
- 10 DETOUR
M4-9L 30" x 24"
48" x 36" (I-70)

- 11 DETOUR
M4-9R 30" x 24"
48" x 36" (I-70)

- 12 DETOUR
M4-9 30" x 24"
48" x 36" (I-70)

- 13 DETOUR
M4-9 30" x 24"
48" x 36" (I-70)

- MAP LEGEND
- PROPOSED DETOUR ROUTE
 - ⊥ POST MOUNTED SIGN
 - ↑↓ TYPE III BARRICADE
 - ▨ ROAD CLOSURE LOCATION
 - CMB CHANGEABLE MESSAGE BOARD



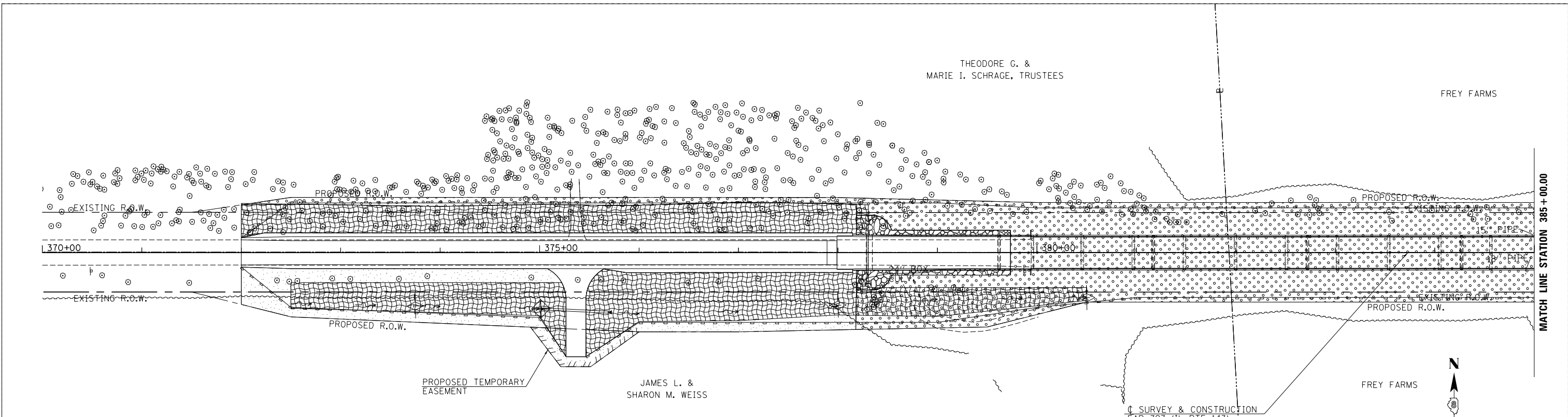
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\$MODELNAME\$	PLOT SCALE = 2000.00' / in.	CHECKED - MVM	REVISED -
	PLOT DATE = 1/11/2017	DATE - 3/31/16	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION




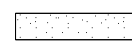

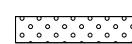

F.A.P. 793 (IL 143)
DETOUR PLAN

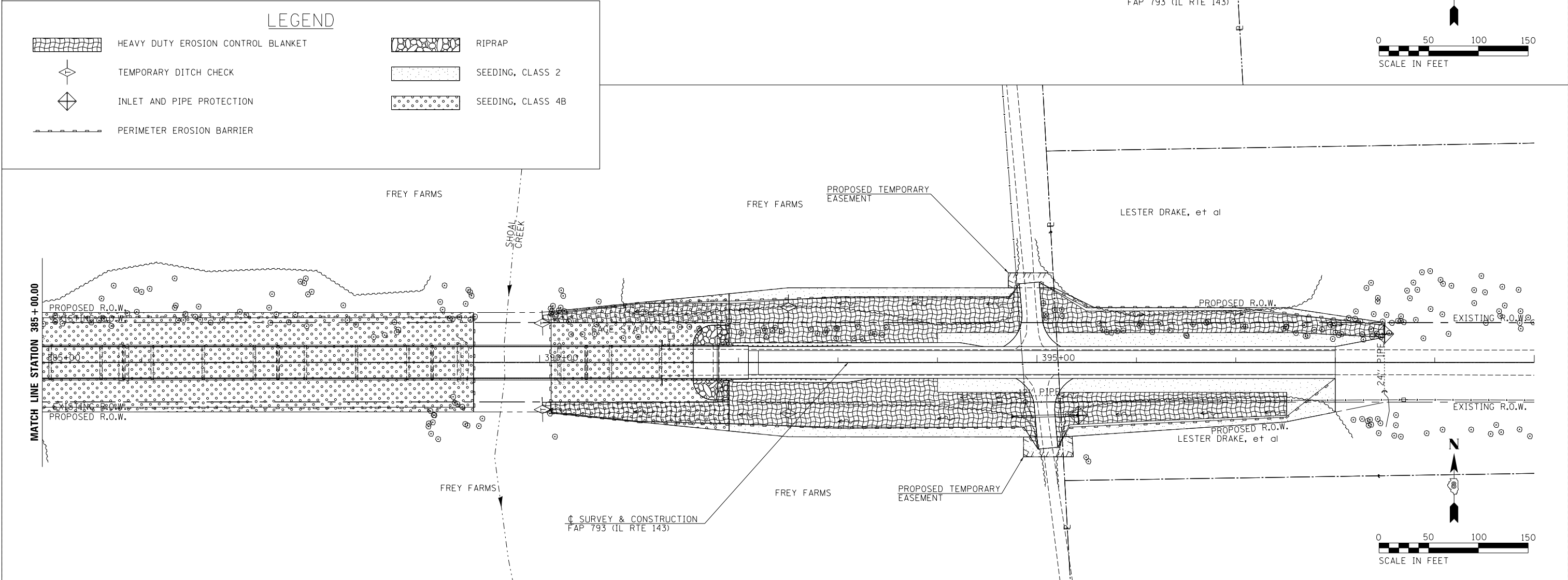
SCALE: N/A SHEET 3 OF 3 SHEETS STA. TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
793	(40, 112)BR-1	BOND	95	19
CONTRACT NO. 76967				
ILLINOIS FED. AID PROJECT				



LEGEND

-  HEAVY DUTY EROSION CONTROL BLANKET
-  RIPRAP
-  TEMPORARY DITCH CHECK
-  SEEDING, CLASS 2
-  INLET AND PIPE PROTECTION
-  SEEDING, CLASS 4B
-  PERIMETER EROSION BARRIER



FILE NAME =	USER NAME = bborgman	DESIGNED -	REVISED -
V:\Transportation\3890\CADD SHEETS\0876967-shr-eros.dgn		DRAWN -	REVISED -
	PLOT SCALE = 100.0000' / in.	CHECKED -	REVISED -
	PLOT DATE = 1/11/2017	DATE -	REVISED -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**F.A.P. 793 (IL 143)
EROSION CONTROL PLANS**

SCALE: 1"=50'-0" SHEET NO. 1 OF 1 SHEETS STA. 372+00.00 TO STA. 398+00.00

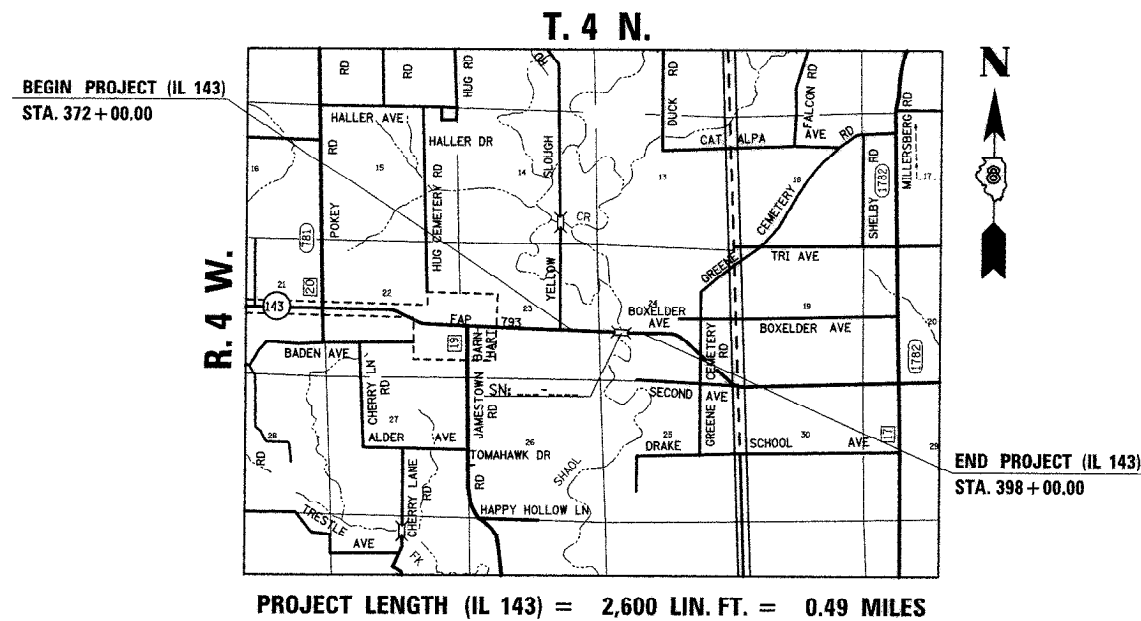
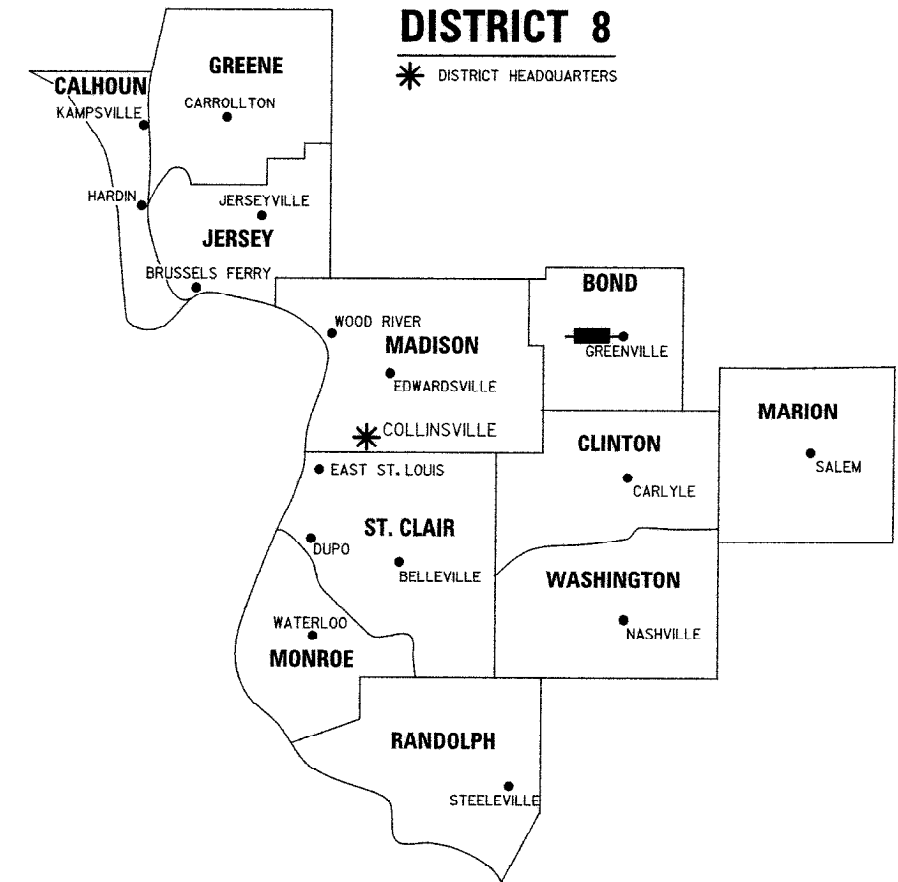
F.A.P. R.T.E.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
793	(40, 112)BR-1	BOND	95	20
CONTRACT NO. 76967				
ILLINOIS FED. AID PROJECT				

SHEET INDEX		
SHEET NO.	STATION TO STATION	DESCRIPTION
1		COVER SHEET
2		GENERAL NOTES & LEGEND
3	368+78.98 TO 381+93.12	PARCELS 8109071 & 072
4	381+93.12 TO 395+21.31	PARCELS 8109073 & 074
5	395+21.31 TO 408+49.28	PARCELS 8109075 & 076
6		TOTAL HOLDING SHEET & SECTION DETAILS

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION
DIVISION OF HIGHWAYS
PLAT OF HIGHWAYS

FAP ROUTE 793 (IL 143)
SECTION (40,112) BR-1
BOND COUNTY
JOB NO.
R-98-009-11

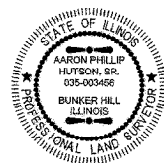
SPACE RESERVED FOR RECORDING OFFICER



PREPARED BY:



3555 COLLEGE AVE.
ALTON, ILLINOIS 62002
PHONE: (618) 433-9229
DESIGN FIRM NUMBER: 184-004243



Aaron P. Hutson Sr. 2/5/16
AARON P. HUTSON SR., PLS NO. 3456
LICENSE EXPIRATION DATE: 11/30/2016

SHEET 1 OF 6

ILLINOIS DEPARTMENT OF TRANSPORTATION DIVISION OF HIGHWAYS/REGION 5/DISTRICT 8 1102 EASTPORT PLAZA DRIVE COLLINSVILLE, ILLINOIS 62234-6198				
F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
793	(40,112) BR-1	BOND	95	21
CONTRACT NO. 76967				
FED. ROAD DIST. NO. ILLINOIS FED. AID PROJECT				

LEGEND FOR EXISTING TOPOGRAPHIC SYMBOLS

TRAFFIC SIGNAL HANDHOLE	⊠	DRAINAGE FLOW LINE	— —
TRAFFIC SIGNAL GULFBOX	○	RIP RAP	— — — —
TRAFFIC SIGNAL HANDHOLE	⊠	HEADWALL	— —
TRAFFIC SIGNAL SIGNAL POST	○	CULVERT END SECTION	— —
TRAFFIC SIGNAL STEEL MAST ARM	— —	DRAINAGE MANHOLE	⊠
TRAFFIC SIGNAL COMBINED MAST ARM	— —	INLET	⊠
TRAFFIC SIGNAL PEDESTRIAN PUSH BUTTON	●	ROADWAY DITCH FLOW	— — — —
TRAFFIC SIGNAL WOODEN POLE	○	VEGETATION LINE	— — — —
TRAFFIC SIGNAL VEHICLE DETECTION PRIORITY	⊠	STUMP	⊠
TRAFFIC SIGNAL VEHICLE DETECTION MAGNET	⊠	SHRUB	⊠
TRAFFIC SIGNAL JUNCTION BOX	⊠	EVERGREEN TREE	⊠
TRAFFIC SIGNAL CONTROLLER	⊠	DECIDUOUS TREE	⊠
TRAFFIC SIGNAL HEAVY DUTY HANDHOLE	⊠	WOODS/BUSH PATTERN	⊠
RAILROAD CANTILEVER MAST ARM	— — — —	TRAFFIC SIGN	⊠
RAILROAD CROSSBUCK	— — — —	GAURDRAIL POST	⊠
RAILROAD TRACK PATTERN	— — — —	GAURDRAIL PATTERN	— — — —
RAILROAD ABANDON PATTERN	— — — —	FIELD LINE	— — — —
RAILROAD CROSSGATE	— — — —	LEVEE/NOISE BARRIER	— — — —
RAILROAD CONTROL BOX	⊠	FENCE PATTERN	— — — —
RAILROAD FLASHING SIGNAL	⊠	MAIL BOX	⊠
TELEPHONE SPLICE BOX ABOVE GROUND	⊠	ADVERTISING SIGN	⊠
UTILITY POWER POLE	⊠	MARSH	⊠
TELEPHONE POLE	⊠	LIGHTING HANDHOLE	⊠
UTILITY TRAFFIC SIGNAL	⊠	LIGHTING POWER POLE	⊠
UTILITY LIGHT POLE	⊠	LIGHTING JUNCTION BOX	⊠
FIRE HYDRANT	⊠	LIGHTING HEAVYDUTY HANDHOLE	⊠
UTILITY MANHOLE	⊠	LIGHTING CONTROLLER	⊠
UTILITY TELEPHONE POLE	⊠	LIGHTING PULL POINT	⊠
UTILITY GUY POLE	⊠	HIGHWAY LIGHTING ELECTRICAL GROUND	⊠
PIPELINE WARNING SIGN	⊠	HIGHWAY LIGHTING SINGLE UNIT	⊠
UTILITY HANDHOLE	⊠	HIGHWAY LIGHTING DOUBLE UNIT	⊠
UTILITY SPLICE ABOVE GROUND	⊠	EXISTING CONCRETE BARRIER	— — — —
UTILITY JUNCTION BOX	⊠	EXISTING CREEK OR DITCH	— — — —
UTILITY HEAVY DUTY HANDHOLE	⊠	EXISTING EDGE OF PAVEMENT	— — — —
UTILITY DOUBLE HANDHOLE	⊠		
UTILITY CONTROLLER	⊠		
UTILITY WATER METER	⊠		

RIGHT OF WAY LEGEND

	QUARTER SECTION CORNERS
	SECTION CORNERS
---	EXISTING CENTERLINE
---	EXISTING RIGHT OF WAY LINE
---	FORMER RIGHT OF WAY LINE
---	EXISTING IDOT EASEMENT LINE
---	EXISTING EASEMENT LINE
---	BUILDING SETBACK LINE
---AC---	EXISTING ACCESS CONTROL LINE
---AC---	EXISTING RIGHT OF WAY & PROPOSED ACCESS CONTROL LINE
---AC---	PROPOSED ACCESS CONTROL LINE
---	PROPOSED CENTERLINE
---	PROPOSED RIGHT OF WAY LINE
---	PROPOSED TEMPORARY EASEMENT LINE
---	PROPOSED PERMANENT EASEMENT LINE
---	SECTION LINE
---	QUARTER SECTION LINE
---	QUARTER QUARTER SECTION LINE
---	PROPERTY LINE
---	APPARENT PROPERTY LINE
---	MEASURED DIMENSION
---	RECORDED DIMENSION
□	FOUND STONE
○	FOUND IRON PIPE OR IRON ROD AT CORNER UNLESS OTHERWISE NOTED
●	SET 5/8 INCH IRON ROD WITH PLASTIC CAP IDENTIFIED BY SURVEYORS LICENSE NUMBER AT CORNER UNLESS OTHERWISE NOTED
⊠	PERMANENT SURVEY MONUMENT, I.D.O.T. STD. 667101 (TO BE SET BY OTHERS)
▲	SET 5/8 INCH IRON ROD AS SURVEY CONTROL UNLESS OTHERWISE NOTED
+	FOUND CUT CROSS
+	SET CUT CROSS
---	SAME OWNERSHIP
⊠	EXISTING BUILDING

■ STAKING OF PROPOSED RIGHT OF WAY CORNERS. SET 5/8 INCH METAL ROD WITH DIVISION OF HIGHWAY SURVEY ALUMINUM CAP TO MONUMENT THE POSITION SHOWN. IDENTIFIED BY INSCRIPTION DATA AND SURVEYORS LICENSE NUMBER. (PROPOSED RIGHT OF WAY CORNERS SET IN CULTIVATED AREAS SHALL BE A MINIMUM OF 20 INCHES BELOW THE GROUND SURFACE).

LEGEND FOR ABBREVIATIONS

A/C	ACCESS CONTROL
AC	ACRE
AVE	AVENUE
BK	BOOK
BLVD	BOULEVARD
CL	CENTERLINE
CH	COUNTY HIGHWAY
Ch	CHAIN
DB	DEED BOOK
E	EAST
EX	EXISTING
FA	FEDERAL AID
FAI	FEDERAL AID INTERSTATE
FAP	FEDERAL AID PRIMARY
FAS	FEDERAL AID SECONDARY
FAUS	FEDERAL AID URBAN SECONDARY
FND	FUND
ha	HECTARE
IP	IRON PIPE
IR	IRON ROD
LT	LEFT
m	METER
m²	SQUARE METERS
N	NORTH
N & BC	NAIL AND BOTTLE CAP
N & C	NAIL AND CAP
N & W	NAIL AND WASHER
NE	NORTHEAST
NW	NORTHWEST
PB	PLAT BOOK
PG	PAGE
POB	POINT OF BEGINNING
POC	POINT OF COMMENCEMENT
POT	POINT OF TANGENCY
PL	PROPERTY LINE
PR	PROPOSED
RD	ROAD
ROW	RIGHT OF WAY
RR	RAILROAD
RRS	RAILROAD SPIKE
RT	RIGHT
RTE	ROUTE
S	SOUTH
SBI	STATE BOND ISSUE
SE	SOUTHEAST
SQ FT	SQUARE FEET
SR	STATE ROUTE
ST	STREET
STA	STATION
SMK	SURVEY MARKER
SW	SOUTHWEST
TWP	TOWNSHIP
TR	TOWNSHIP ROAD
USGS	U.S. GEOLOGICAL SURVEY
W	WEST
PLA	PROPERTY LINE FOR APPRAISAL PURPOSES ONLY

PROPOSED PARCEL NUMBER LEGEND

8001001	PROPOSED FEE SIMPLE ACQUISITION
8001001PE	PROPOSED PERMANENT EASEMENT
8001001TE	PROPOSED TEMPORARY EASEMENT
8001001DED	PROPOSED DEDICATION
8001001AC	PROPOSED ACCESS CONTROL LINE

CURVE ABBREVIATIONS

PC	POINT OF CURVATURE
PI	POINT OF INTERSECTION
PT	POINT OF TANGENCY
PRC	POINT OF REVERSE CURVE
PCC	POINT OF COMPOUND CURVE
CB	CHORD BEARING
R	RADIUS OF CURVE
L	CURVE LENGTH
CB	CHORD BEARING
C	CHORD LENGTH
D	DEGREE OF CURVE
e	EXTERNAL
Δ	CENTRAL ANGLE

TOTAL HOLDING AREA SOURCE TABLE

1	AREA ACCORDING TO THE SURVEY PERFORMED BY THE CONSULTANT.
2	AREA LISTED IN RECORDED DEED.
3	AREA ACCORDING TO A RECORDED SUBDIVISION PLAT.
4	AREA ACCORDING TO A PLAT OF SURVEY.
5	AREA CALCULATED FROM RECORDED DEEDS OR TITLE COMMITMENTS - NOT SURVEYED.
6	AREA ACCORDING TO COUNTY TAX MAPS AND COUNTY ASSESSMENT RECORDS.
7	AREA ACCORDING TO OTHER RECORDS, SEE NOTE ON THE PLAT OF HIGHWAYS.

TOPOGRAPHIC STATEMENT

THE TOPOGRAPHY SHOWN HEREON WAS PROVIDED TO THE SURVEYOR BY THE ILLINOIS DEPARTMENT OF TRANSPORTATION. THE SURVEYOR VISUALLY FIELD VERIFIED THE EXISTENCE OF THE TOPOGRAPHY SHOWN HEREON.

BASIS OF COORDINATE & BEARING STATEMENT

COORDINATES AND BEARINGS SHOWN HEREON ARE BASED ON SURVEY CONTROL DATA AS PROVIDED BY THE ILLINOIS DEPARTMENT OF TRANSPORTATION. THE COORDINATES FOR THIS PROJECT ARE GROUND COORDINATES. THE TRUNCATED AND SCALED COORDINATES ARE BASED ON THE ILLINOIS STATE PLANE COORDINATE SYSTEM, WEST ZONE, NAD 83 (2007). THE COMBINATION GRID FACTOR UTILIZED FOR THIS PROJECT IS 0.999978738.

PREPARED BY:

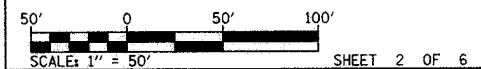


3555 COLLEGE AVE.
ALTON, ILLINOIS 62002
PHONE: (618) 433-9229
DESIGN FIRM NUMBER: 184-004243



Aaron P. Hutson, Sr. 4/5/16
AARON P. HUTSON SR., PLS NO. 3456
LICENSE EXPIRATION DATE: 11/30/2016

ILLINOIS DEPARTMENT OF TRANSPORTATION
PLAT OF HIGHWAYS
FAP ROUTE 793 (IL 143)
SECTION (40,112) BR-1
BOND COUNTY
JOB NO. R-98-009-11



ILLINOIS DEPARTMENT OF TRANSPORTATION
DIVISION OF HIGHWAYS/REGION 5/DISTRICT 8
1102 EASTPORT PLAZA DRIVE
COLLINGSVILLE, ILLINOIS 62234-6198

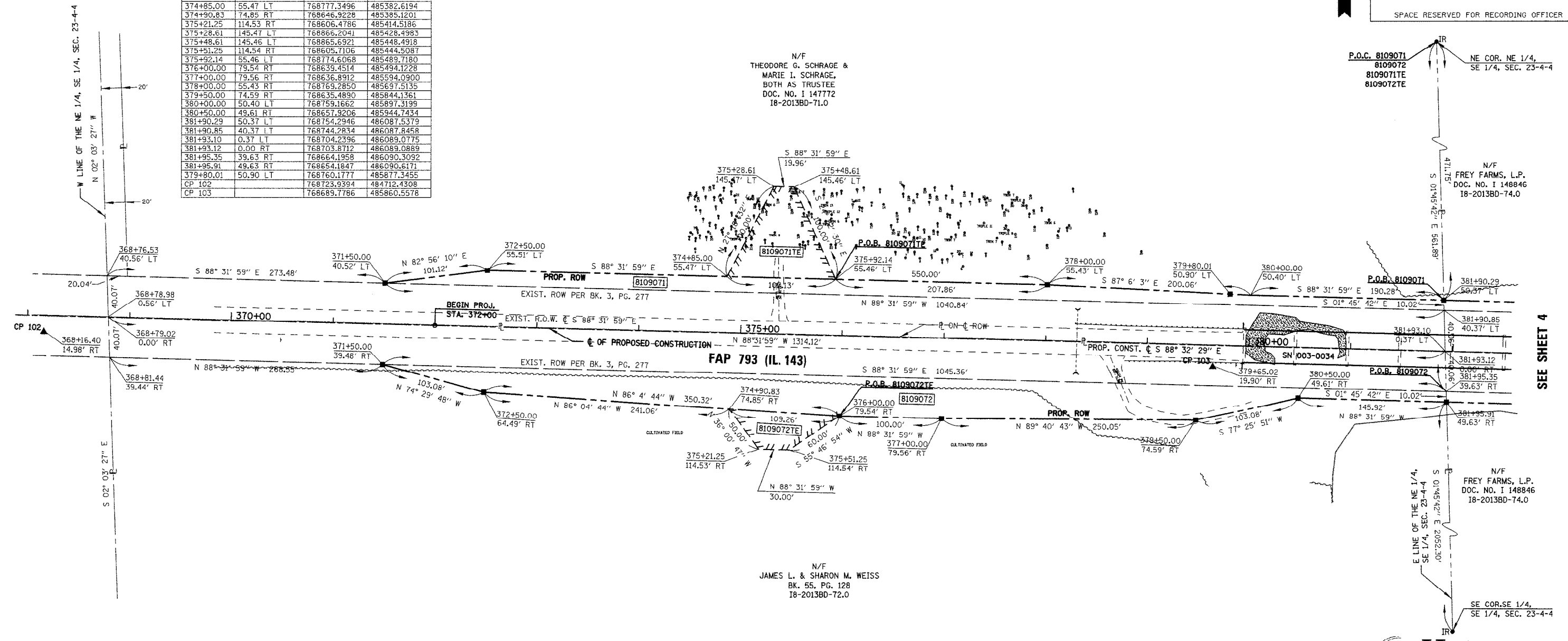
F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
793	(40,112) BR-1	BOND	95	22
CONTRACT NO. 76967				
FED. ROAD DIST. NO.		ILLINOIS FED. AID PROJECT		

SEE LEGENDS, TOPOGRAPHIC STATEMENT, SURVEYORS NOTE(S) AND BASIS OF COORDINATES & BEARINGS STATEMENT ON SHEET 2

STATION	OFFSET	NORTH	EAST
368+76.53	40.56 LT	768777.9330	484773.9522
368+78.98	0.56 RT	768737.8839	484775.3911
368+79.02	0.00 RT	768737.3197	484775.4113
368+81.44	39.44 RT	768697.8348	484776.8299
371+50.00	39.48 RT	768690.9593	485045.2944
371+50.00	40.52 LT	768770.9313	485047.3425
372+50.00	64.49 RT	768663.4072	485144.6216
372+50.00	55.51 LT	768783.3662	485147.6931
374+85.00	55.47 LT	768777.3496	485382.6194
374+90.83	74.85 RT	768646.9228	485385.1201
375+21.25	114.53 RT	768606.4786	485414.5186
375+28.61	145.47 LT	768866.2041	485428.4983
375+48.61	145.46 LT	768865.6921	485448.4918
375+51.25	114.54 RT	768605.7106	485444.5087
375+92.14	55.46 LT	768774.6068	485489.7180
376+00.00	79.54 RT	768639.4514	485494.1228
377+00.00	79.56 RT	768636.8912	485594.0900
378+00.00	55.43 RT	768769.2850	485697.5135
379+50.00	74.59 RT	768635.4890	485844.1361
380+00.00	50.40 LT	768759.1662	485897.3199
380+50.00	49.61 RT	768657.9206	485944.7434
381+90.29	50.37 LT	768754.2946	486087.5379
381+90.85	40.37 LT	768744.2834	486087.8458
381+93.10	0.37 LT	768704.2396	486089.0775
381+93.12	0.00 RT	768703.8712	486089.0889
381+95.35	39.63 RT	768664.1958	486090.3092
381+95.91	49.63 RT	768654.1847	486090.6171
379+80.01	50.90 LT	768760.1777	485877.3455
CP 102		768723.9394	484712.4308
CP 103		768689.7786	485860.5578



SPACE RESERVED FOR RECORDING OFFICER



SEE SHEET 4

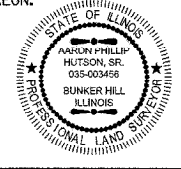
Hutson & Associates
 3555 COLLEGE AVE.
 ALTON, ILLINOIS 62002
 PHONE: (618) 433-0229
 DESIGN FIRM NUMBER: 184-004243

* SEE TOTAL HOLDING AREA SOURCE TABLE ON SHEET 2

PARCEL NO.	OWNER	TOTAL HOLDING ACRES	GROSS		FEE SIMPLE ACQUISITION PREVIOUSLY DEDICATED AND/OR USED		NET		REMAINDER ACRES	EASEMENTS		PERMANENT TAX NUMBER	PROPERTY ACQUIRED BY
			ACRES	SO. FT.	ACRES	SO. FT.	ACRES	SO. FT.		PE = PERMANENT	TE = TEMPORARY		
8109071	THEODORE G. SCHRAGE, AS TRUSTEE UNDER THE PROVISIONS OF A TRUST AGREEMENT DATED APRIL 10, 2006, AND KNOWN AS THE TWIN OAKS FARM TRUST NO. 1, AS TO AN UNDIVIDED 1/2 INTEREST; AND MARIE I. SCHRAGE, AS TRUSTEE UNDER THE PROVISIONS OF A TRUST AGREEMENT DATED APRIL 10, 2006, AND KNOWN AS THE TWIN OAKS FARM TRUST NO. 2 18-2013BD-71.0	15.6750	1.5145	65,973	1.2067	52,567	0.3078	13,406	14.1605	0.1313	5,719	07-12-23-403-001	
8109072	JAMES LEE WEISS & SHARON MARIE WEISS, HUSBAND & WIFE, AS JOINT TENANTS 18-2013BD-72.0	62.1648	1.8886	82,266	1.2066	52,560	0.6820	29,706	60.2762	0.0601	2,619	07-12-23-404-001	

STATE OF ILLINOIS)
) SS
 COUNTY OF MACOUPIN)
 I, AARON P. HUTSON SR., AN ILLINOIS PROFESSIONAL LAND SURVEYOR, STATE THAT I HAVE SURVEYED THE PLAT OF HIGHWAY SHOWN HEREON AND THAT THIS PROFESSIONAL SERVICE CONFORMS TO THE CURRENT ILLINOIS MINIMUM STANDARDS FOR A BOUNDARY SURVEY OF THE EXISTING RIGHT OF WAY, SHOWN HEREON.
 DATED 2/5/16

 AARON P. HUTSON SR., PLS. NO. 3456
 LICENSE EXPIRATION DATE: 11/30/2016



ILLINOIS DEPARTMENT OF TRANSPORTATION
PLAT OF HIGHWAYS
 FAP ROUTE 793 (IL 143)
 SECTION (40,112) BR-1
 BOND COUNTY
 JOB NO. R-98-009-11
 STATION 368+78.98 TO STATION 381+93.12

50' 0 50' 100'
 SCALE: 1" = 50' SHEET 3 OF 6

ILLINOIS DEPARTMENT OF TRANSPORTATION
 DIVISION OF HIGHWAYS/REGION 5/DISTRICT 8
 1102 EASTPORT PLAZA DRIVE
 COLLINSVILLE, ILLINOIS 62234-6196

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
793	(40,112) BR-1	BOND	95	23

COMPLETION DATE OF FIELD WORK PERFORMED
 LAND SURVEY: 1/20/15 ROW STAKING: 2/01/16

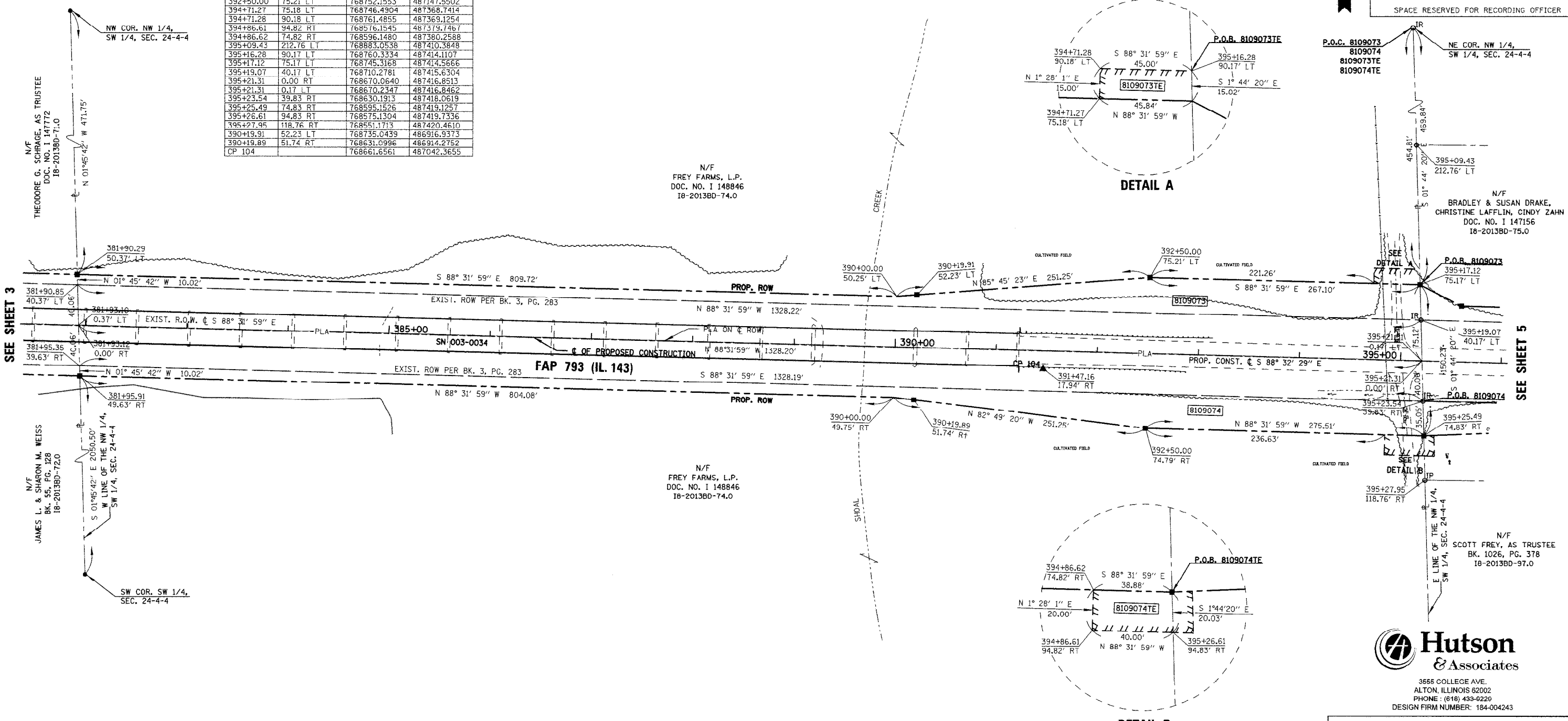
FED. ROAD DIST. NO. ILLINOIS FED. AID PROJECT CONTRACT NO. 76967

SEE LEGENDS, TOPOGRAPHIC STATEMENT, SURVEYORS NOTE(S) AND BASIS OF COORDINATES & BEARINGS STATEMENT ON SHEET 2

STATION	OFFSET	NORTH	EAST
381+90.29	50.37 LT	768754.2946	486087.5379
381+90.85	40.37 LT	768744.2834	486087.8458
381+93.10	0.37 LT	768704.2396	486089.0775
381+93.12	0.00 RT	768703.8712	486089.0889
381+95.35	39.63 RT	768664.1958	486090.3092
381+95.91	49.63 RT	768654.1847	486090.6171
390+00.00	49.75 RT	768633.5985	486094.4320
390+00.00	50.25 LT	768733.5640	486896.9921
392+50.00	74.79 RT	768602.2061	487143.7100
392+50.00	75.21 LT	768752.1553	487147.5502
394+71.27	75.18 LT	768746.4904	487368.7414
394+71.28	90.18 LT	768761.4855	487369.1254
394+86.61	94.82 RT	768576.1545	487379.7467
394+86.62	74.82 RT	768596.1480	487380.2588
395+09.43	212.76 LT	768883.0538	487410.3848
395+16.28	90.17 LT	768760.3334	487414.1107
395+17.12	75.17 LT	768745.3168	487414.5666
395+19.07	40.17 LT	768710.2781	487415.6304
395+21.31	0.00 RT	768670.0640	487416.8513
395+21.31	0.17 LT	768670.2347	487416.8462
395+23.54	39.83 RT	768630.1913	487418.0619
395+25.49	74.83 RT	768595.1526	487419.1257
395+26.61	94.83 RT	768575.1304	487419.7336
395+27.95	118.76 RT	768551.1713	487420.4610
390+19.91	52.23 LT	768735.0439	486916.9373
390+19.89	51.74 RT	768631.0996	486914.2752
CP 104		768661.6561	487042.3655



SPACE RESERVED FOR RECORDING OFFICER



SEE SHEET 3

SEE SHEET 5

* SEE TOTAL HOLDING AREA SOURCE TABLE ON SHEET 2

PARCEL NO.	OWNER	TOTAL HOLDING ACRES	FEE SIMPLE ACQUISITION						REMAINDER ACRES	EASEMENTS		PERMANENT TAX NUMBER	PROPERTY ACQUIRED BY
			GROSS		PREVIOUSLY DEDICATED AND/OR USED		NET			PE = PERMANENT TE = TEMPORARY	EASEMENT PURPOSE		
			ACRES	SQ. FT.	ACRES	SQ. FT.	ACRES	SQ. FT.					
8109073	FREY FARMS, L.P. 18-2013BD-74.0	16.2395	1,7500	76,230	1,2197	53,128	0.5303	23,102	14.4895	0.0156	681	GRADING & ENTRANCE CONSTRUCTION	07-12-24-309-001
8109074	FREY FARMS, L.P. 18-2013BD-74.0	47.0152	1,7540	76,404	1,2196	53,127	0.5344	23,277	45,2612	0.0181	789	GRADING & ENTRANCE CONSTRUCTION	07-12-24-309-001

STATE OF ILLINOIS)
) SS
COUNTY OF MACOUPIN)

I, AARON P. HUTSON SR., AN ILLINOIS PROFESSIONAL LAND SURVEYOR, STATE THAT I HAVE SURVEYED THE PLAT OF HIGHWAY SHOWN HEREON AND THAT THIS PROFESSIONAL SERVICE CONFORMS TO THE CURRENT ILLINOIS MINIMUM STANDARDS FOR A BOUNDARY SURVEY OF THE EXISTING RIGHT OF WAY, SHOWN HEREON.

DATED 2/5/16
Aaron P. Hutson Sr.
AARON P. HUTSON SR., PLS. NO. 3456
LICENSE EXPIRATION DATE: 11/30/2016



Hutson & Associates
3655 COLLEGE AVE.
ALTON, ILLINOIS 62002
PHONE: (618) 433-9229
DESIGN FIRM NUMBER: 184-004243

ILLINOIS DEPARTMENT OF TRANSPORTATION
PLAT OF HIGHWAYS
FAP ROUTE 793 (IL 143)
SECTION (40,112) BR-1
BOND COUNTY
JOB NO. R-98-009-11
STATION 381+93.12 TO STATION 395+21.31

SCALE: 1" = 50'

SHEET 4 OF 6

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
793	(40,112) BR-1	BOND	95	24

CONTRACT NO. 76967

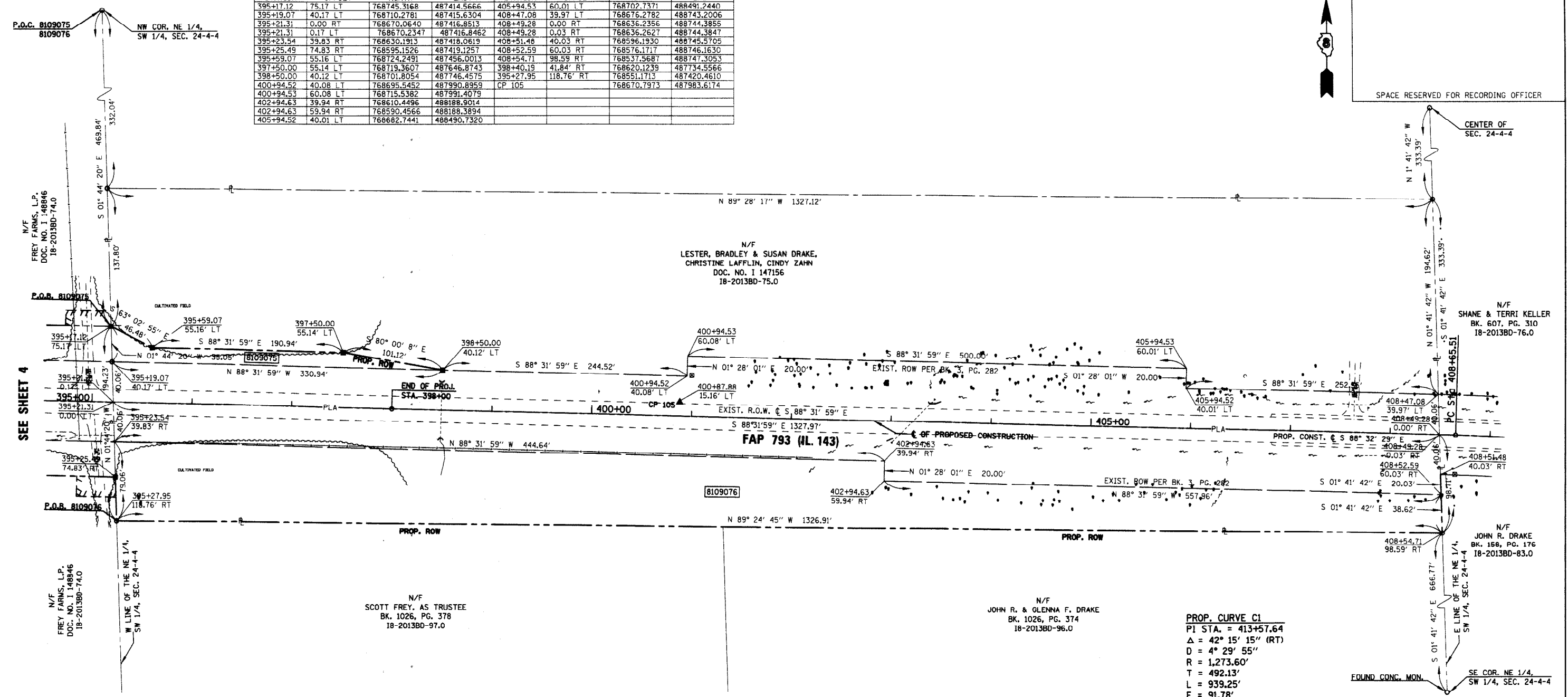
FED. ROAD DIST. NO. ILLINOIS FED. AID PROJECT

SEE LEGENDS, TOPOGRAPHIC STATEMENT, SURVEYORS NOTE(S) AND BASIS OF COORDINATES & BEARINGS STATEMENT ON SHEET 2

STATION	OFFSET	NORTH	EAST	STATION	OFFSET	NORTH	EAST
395+17.12	75.17 LT	768745.3168	487414.5666	405+94.53	60.01 LT	768702.7371	488491.2440
395+19.07	40.17 LT	768710.2781	487415.6304	408+47.08	39.97 LT	768676.2782	488743.2006
395+21.31	0.00 RT	768670.0640	487416.8513	408+49.28	0.00 RT	768636.2356	488744.3855
395+21.31	0.17 LT	768670.2347	487416.8462	408+49.28	0.03 RT	768636.2627	488744.3847
395+23.54	39.83 RT	768630.1913	487418.0619	408+51.48	40.03 RT	768596.1930	488745.5705
395+25.49	74.83 RT	768595.1526	487419.1257	408+52.59	60.03 RT	768576.1717	488746.1630
395+25.49	55.16 LT	768724.2491	487456.0013	408+54.71	98.59 RT	768537.5687	488747.3053
397+50.00	55.14 LT	768719.3607	487466.8743	398+40.19	41.84' RT	768620.1239	487734.5566
398+50.00	40.12 LT	768701.8054	487746.4575	395+27.95	118.76' RT	768551.1713	487420.4610
400+94.52	40.08 LT	768695.5452	487990.8959	CP 105			
400+94.53	60.08 LT	768715.5382	487991.4079				
402+94.63	39.94 RT	768610.4496	488188.9014				
402+94.63	59.94 RT	768590.4566	488188.3894				
405+94.52	40.01 LT	768682.7441	488490.7320				



SPACE RESERVED FOR RECORDING OFFICER



PROP. CURVE C1
 PI STA. = 413+57.64
 Δ = 42° 15' 15" (RT)
 D = 4° 29' 55"
 R = 1,273.60'
 T = 492.13'
 L = 939.25'
 E = 91.78'
 P.C. STA. = 408+65.51
 P.T. STA. = 418+04.75

Hutson & Associates
 3585 COLLEGE AVE.
 ALTON, ILLINOIS 62002
 PHONE: (618) 433-9229
 DESIGN FIRM NUMBER: 184-004243

ILLINOIS DEPARTMENT OF TRANSPORTATION
PLAT OF HIGHWAYS
 FAP ROUTE 793 (IL 143)
 SECTION (40,112) BR-1
 BOND COUNTY
 JOB NO. R-98-009-11
 STATION 395+21.31 TO STATION 408+49.28

50' 0 50' 100'
 SCALE: 1" = 50' SHEET 5 OF 6

ILLINOIS DEPARTMENT OF TRANSPORTATION
 DIVISION OF HIGHWAYS/REGION 5/DISTRICT 8
 1102 EASTPORT PLAZA DRIVE
 COLLINSVILLE, ILLINOIS 62234-6198

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
793	(40,112) BR-1	BOND	95	25

CONTRACT NO. 76967
 FED. ROAD DIST. NO. [] ILLINOIS FED. AID PROJECT []

STATE OF ILLINOIS)
) SS
 COUNTY OF MACOUPIN)

I, AARON P. HUTSON SR., AN ILLINOIS PROFESSIONAL LAND SURVEYOR, STATE THAT I HAVE SURVEYED THE PLAT OF HIGHWAY SHOWN HEREON AND THAT THIS PROFESSIONAL SERVICE CONFORMS TO THE CURRENT ILLINOIS MINIMUM STANDARDS FOR A BOUNDARY SURVEY OF THE EXISTING RIGHT OF WAY, SHOWN HEREON.

DATED: 2/5/16

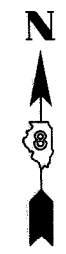
 AARON P. HUTSON SR., PLS NO. 3456
 LICENSE EXPIRATION DATE: 11/30/2016



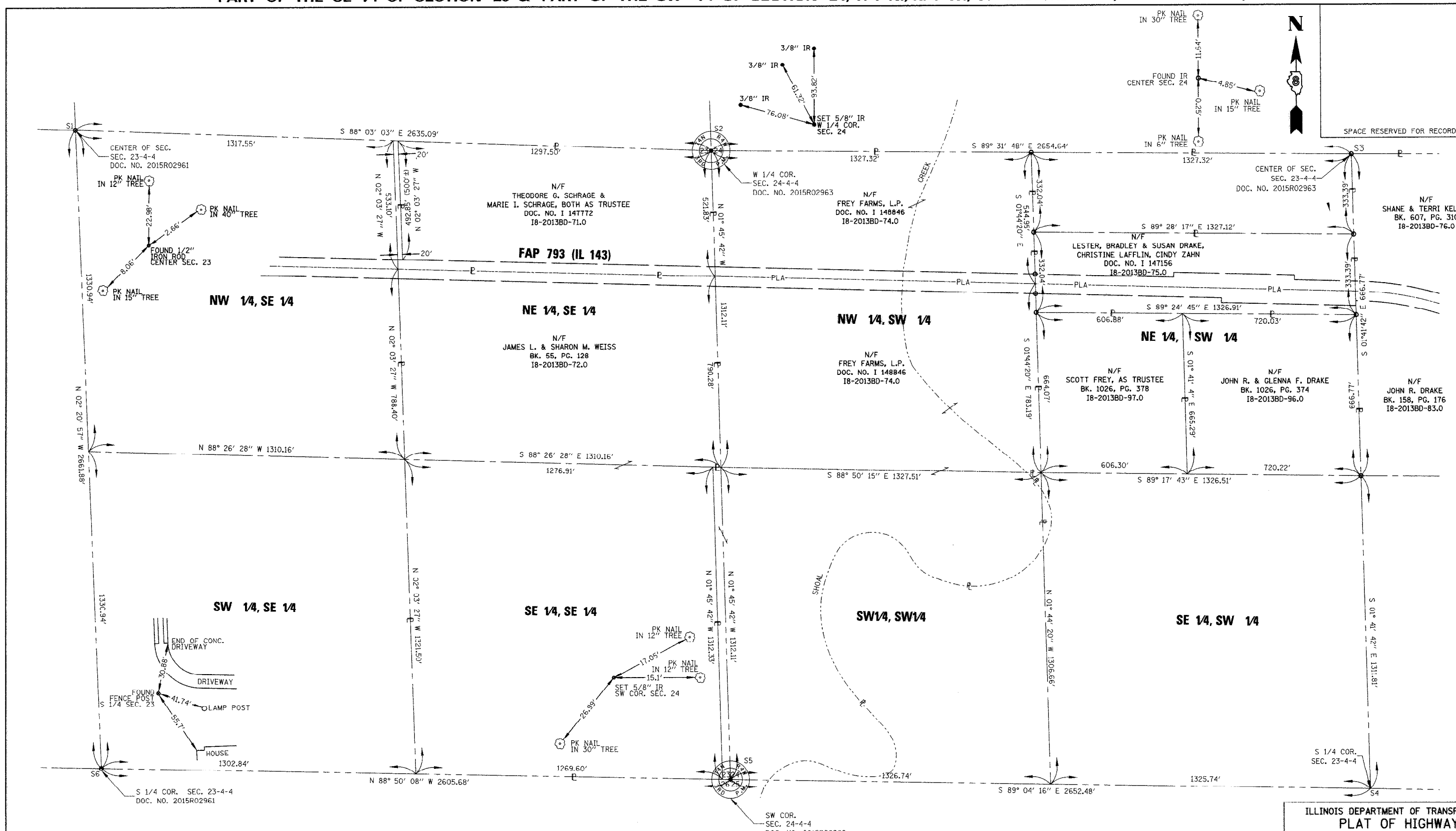
* SEE TOTAL HOLDING AREA SOURCE TABLE ON SHEET 2

PARCEL NO.	OWNER	TOTAL HOLDING	FEE SIMPLE ACQUISITION						REMAINDER	EASEMENTS		PERMANENT TAX NUMBER	PROPERTY ACQUIRED BY	
			GROSS		PREVIOUSLY DEDICATED AND/OR USED		NET			PE = PERMANENT TE = TEMPORARY	EASEMENT PURPOSE			
			ACRES	SQ. FT.	ACRES	SQ. FT.	ACRES	SQ. FT.						ACRES
8109075	LESTER DRAKE, BRADLEY DRAKE & SUSAN DRAKE, CHRISTINE LAFFLIN, & CINDY ZAHN, IN JOINT TENANCY 18-2013BD-75.0	6.8126	1,5553	67,747	1,4490	63,118	0,1063	4,629	5,2573	N/A	N/A	N/A	07-12-24-304-001	
8109076	LESTER DRAKE, BRADLEY DRAKE & SUSAN DRAKE, CHRISTINE LAFFLIN, & CINDY ZAHN, IN JOINT TENANCY 18-2013BD-75.0	3.3150	3,3150	144,403	1,4753	64,265	1,8397	80,138	0,0000	N/A	N/A	N/A	07-12-24-304-001	

COMPLETION DATE OF FIELD WORK PERFORMED
 LAND SURVEY: 1/20/15 ROW STAKING: 2/01/16



SPACE RESERVED FOR RECORDING OFFICER

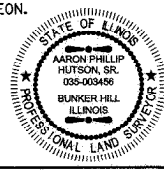


STATE OF ILLINOIS)
) SS
 COUNTY OF MACOUPIN)

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DATED 2/5/16

 AARON P. HUTSON SR., PLS. NO. 3456
 LICENSE EXPIRATION DATE: 11/30/2016



SEE LEGENDS, TOPOGRAPHIC STATEMENT, SURVEYORS NOTE(S) AND BASIS OF COORDINATES & BEARINGS STATEMENT ON SHEET 2

STATION	NORTH	EAST
S1	769315.4499	483439.4677
S2	769225.8249	486073.0344
S3	769204.0478	488727.5827
S4	766559.8500	488805.8303
S5	766602.8549	486153.7126
S6	766655.8087	483548.5757



ILLINOIS DEPARTMENT OF TRANSPORTATION
 PLAT OF HIGHWAYS
 FAP ROUTE 793 (IL 143)
 SECTION (40,112) BR-1
 BOND COUNTY
 JOB NO. R-98-009-11
 TOTAL HOLDING & SECTION DETAILS

SCALE: 1" = 200'

ILLINOIS DEPARTMENT OF TRANSPORTATION
 DIVISION OF HIGHWAYS/REGION 5/DISTRICT 8
 1102 EASTPORT PLAZA DRIVE
 COLLINGSVILLE, ILLINOIS 62234-6198

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
793	(40,112) BR-1	BOND	95	26

COMPLETION DATE OF FIELD WORK PERFORMED: _____
 LAND SURVEY: 1/20/15 ROW STAKING: 2/01/16 CONTRACT NO. 76967
 FED. ROAD DIST. NO. _____ ILLINOIS FED. AID PROJECT

BENCH MARK

BM #22 - Chiseled "□" on north side of west abutment seat.
Sta. 379+96.4, 17.2' L1., Elev. = 461.48

EXISTING STRUCTURES

SN 003-0034 Originally built as SBI 127A, Section 112B in 1934. It was rebuilt and widened in 1972 as FAP 793. Section 112BR. The existing structure consists of 21 spans with 20 simple span RC deck on steel W-beam units (18 west, 2 east of main span) and a single span steel thru plate girder with steel floor beams and RC deck superstructure. The existing substructure consists of concrete stub abutments on concrete piles, concrete pile bent piers on concrete piles (19) and two solid wall concrete piers on concrete pile supported footings. The structure is 1129'-9" bk. to bk. of abutments and 32'-6" out to out of deck with no skew. The existing structure is to be removed and replaced.

The roadway will be closed during construction. Traffic will be detoured during construction.

Salvage: None.



Signed: *[Signature]*

Date: 1/10/2017

License Expires: 11/30/2018

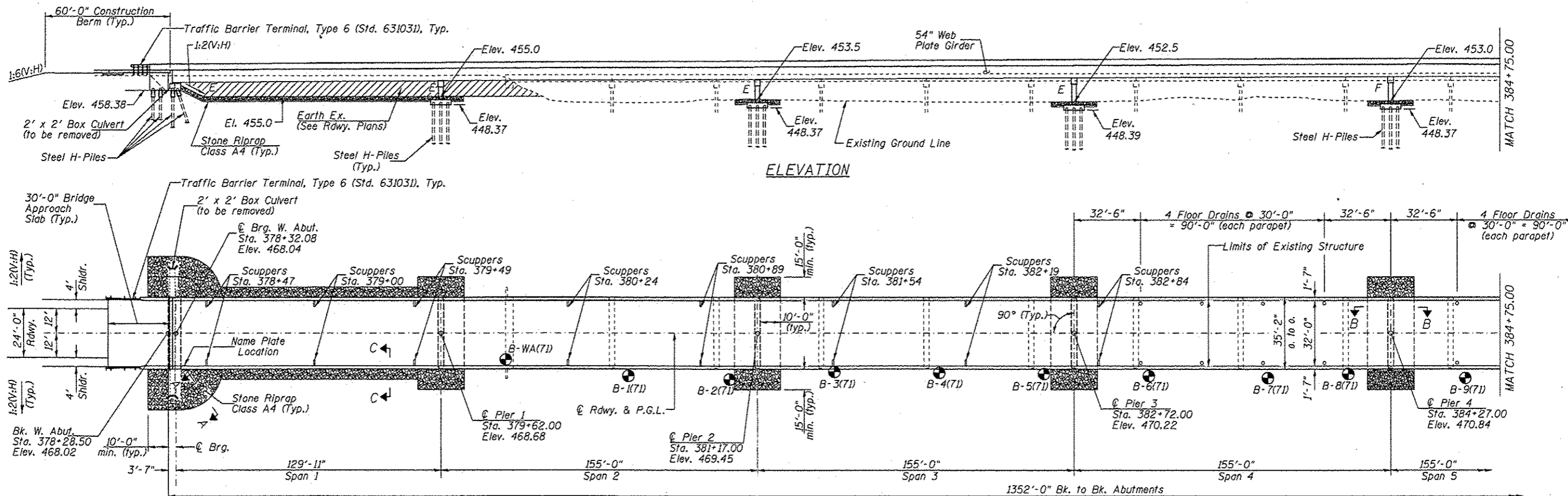
Sheets 10, 15-16 & 27-31.



Lic. Exp. 11/30/18

Sheets 1-9, 11-14, 17-26 & 32-59.

Note: See Sheet 3 of 59 for Index of Sheets and Sections A-A, B-B & C-C.



ELEVATION

PLAN

● Boring Locations

WATERWAY INFORMATION

Drainage Area = 679 Sq. Miles		Low Grade Elev. 465.00 @ Sta. 354+49.60				
Flood Yr.	Freq.	Q C.F.S.	Opening Sq. Ft.	Nat. H.W.E. Prop.	Head - Ft. Exist. Prop.	Headwater El. Exist. Prop.
10	21,100	6,007	7,458	458.92	1.81 1.49	460.74 460.41
Design	50	30,500	7,369	8,911 459.86	2.20 1.80	462.06 461.66
Base	100	34,300	7,711	9,428 460.20	2.33 1.91	462.53 462.11
Overtopping						
Max. Calc.	500	43,200	8,054	10,441 460.93	2.67 2.13	463.60 463.06

LOADING HL-93

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

SEISMIC DATA

Seismic Performance Zone (SPZ) = 2
Design Spectral Acceleration at 1.0 sec. (S₁) = 0.24g
Design Spectral Acceleration at 0.2 sec. (S_{0.2}) = 0.55g
Soil Site Class = D

DESIGN STRESSES

FIELD UNITS

f'_c = 3,500 psi
f'_c = 4,000 psi (Superstructure Concrete)
f_y = 60,000 psi (Reinforcement)
f_y = 50,000 psi (M270 Grade 50)
f_y = 36,000 psi (M270 Grade 36)

DESIGN SPECIFICATIONS

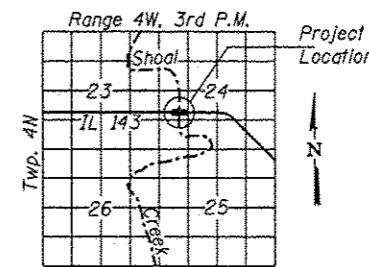
2014 AASHTO LRFD Bridge Design Specifications, 7th Edition with 2015 Interims

DESIGN SCOUR ELEVATION TABLE

Design Scour Elevations (ft.)											Item 113
	W. Abut.	Pier 1	Pier 2	Pier 3	Pier 4	Pier 5	Pier 6	Pier 7	Pier 8	S. Abut.	
Q100	458.0	447.5	443.5	442.5	443.0	446.7	446.8	445.0	449.0	457.4	5
Q500	458.0	443.5	439.5	438.5	439.0	444.7	442.5	441.0	451.0	457.4	
Design	458.0	447.5	443.5	442.5	443.0	446.7	446.8	445.0	445.0	457.4	
Check	458.0	443.5	439.5	438.5	439.0	444.7	442.5	441.0	445.0	457.4	

APPROVED
For Structural Adequacy Only

[Signature]
Engineer of Bridges & Structures



LOCATION SKETCH

GENERAL PLAN & ELEVATION
ILL. RTE. 143 OVER SHOAL CREEK
F.A.P. ROUTE 793
SECTION (40, 112) BR-1
BOND COUNTY
STATION 385+04.50
STR. NO. 003-0062

Hutchison Engineering, Inc.
Jacksonville, Peoria & Shorewood, Illinois

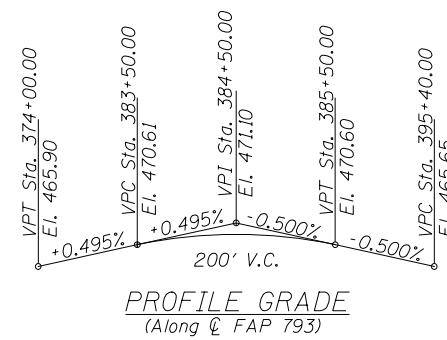
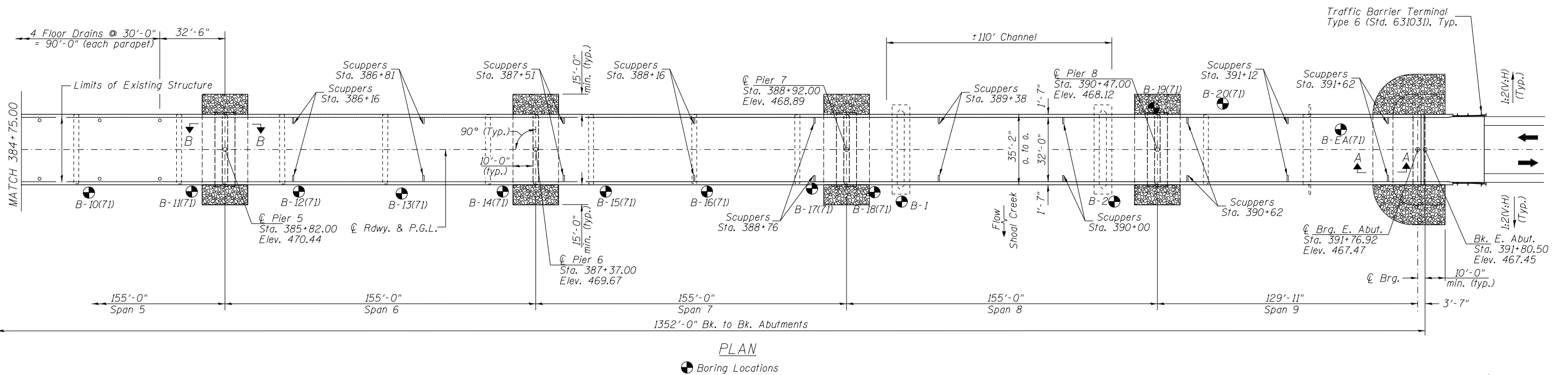
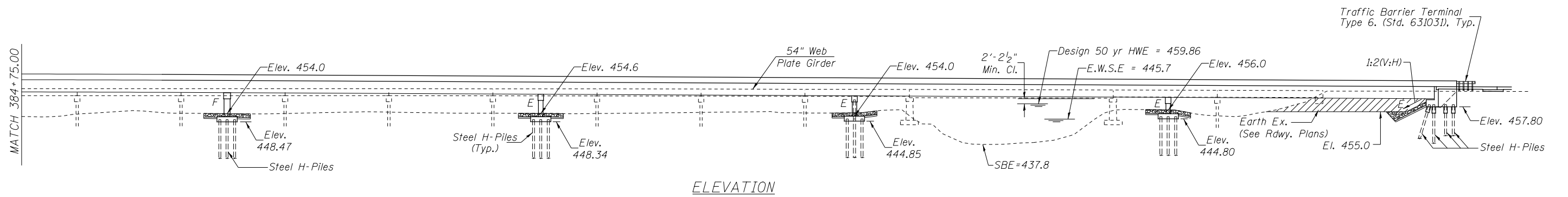
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PLOT SCALE = NONE	CHECKED - JOH	REVISED -
PLOT DATE = 1/10/2017	DRAWN - TAC	REVISED -
	CHECKED - BAN	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

GENERAL PLAN AND ELEVATION
STRUCTURE NO. 003-0062

SHEET NO. 1 OF 59 SHEETS

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
793	(40,112)BR-1	BOND	95	27
CONTRACT NO. 76967			ILLINOIS FED. AID PROJECT	

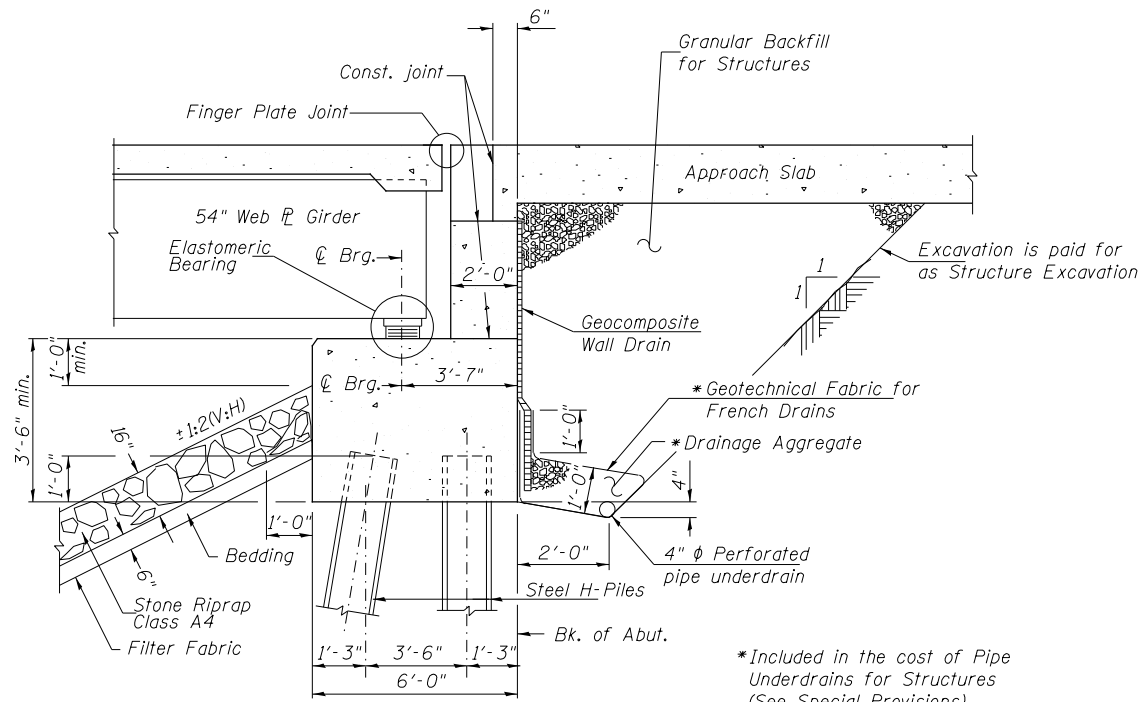


GENERAL PLAN & ELEVATION 2
 ILL. RTE. 143 OVER SHOAL CREEK
 F.A.P. ROUTE 793
 SECTION (40, 112) BR-1
 BOND COUNTY
 STATION 385+04.50
 STR. NO. 003-0062



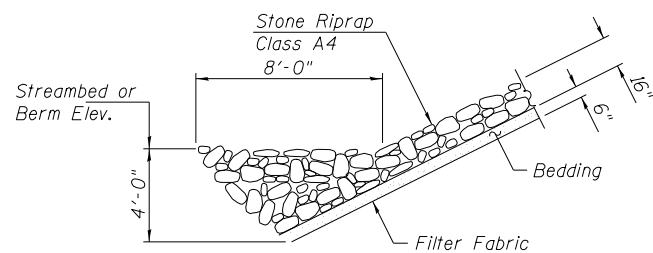
Hutchison Engineering, Inc. Jacksonville, Peoria & Shorewood, Illinois	USER NAME =	DESIGNED - BAN	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	GENERAL PLAN AND ELEVATION STRUCTURE NO. 003-0062	F.A.P. RTE. 793	SECTION (40,112)BR-1	COUNTY BOND	TOTAL SHEETS 95	SHEET NO. 28
	PLOT SCALE = NONE	CHECKED - JOH	REVISED -			CONTRACT NO. 76967				
	PLOT DATE = 1/10/2017	DRAWN - TAC	REVISED -			ILLINOIS FED. AID PROJECT				
		CHECKED - BAN	REVISED -							

V:\Bridge\3890-Bond\SHOAL CR\0030062-76967-002-GPE.dgn

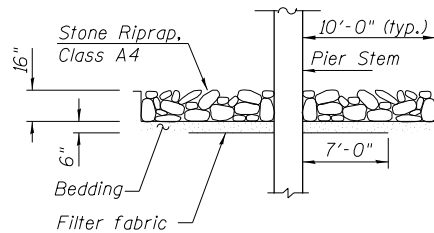


SECTION THRU ABUTMENTS

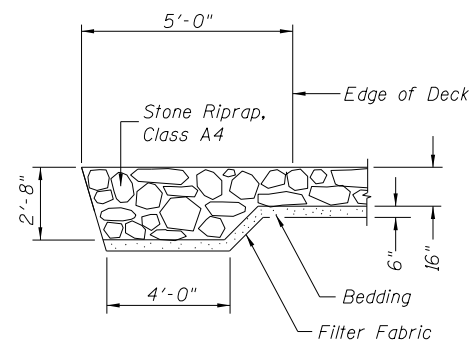
Note:
All drainage system components shall extend parallel to the abutment back wall until they intersect the wingwalls. The pipe shall extend under the wingwall until intersecting with the side slopes. The pipes shall drain into concrete headwalls. (See Article 601.05 of the Standard Specifications and Highway Standard 60110).



SECTION A-A



SECTION B-B



SECTION C-C

STATION 385+04.50
BUILT 20L BY
STATE OF ILLINOIS
F.A.P. RT. 793 SEC. (40, 112)BR-1
LOADING HL-93
STR. NO. 003-0062

NAME PLATE
(See Std. 515001)

TOTAL BILL OF MATERIAL

ITEM	UNIT	SUPER	SUB	TOTAL
Stone Riprap, Class A4	Sq. Yd.	-	2,100	2,100
Filter Fabric	Sq. Yd.	-	1,675	1,675
Removal of Existing Structures No. 1	Each	-	-	1
Structure Excavation	Cu. Yd.	-	1,660	1,660
Floor Drains	Each	16	-	16
Concrete Structures	Cu. Yd.	-	853.7	853.7
Concrete Superstructure	Cu. Yd.	1,542.7	-	1,542.7
Bridge Deck Grooving	Sq. Yd.	4,690	-	4,690
Concrete Encasement	Cu. Yd.	-	9.1	9.1
Protective Coat	Sq. Yd.	6,150	-	6,150
Concrete Superstructure (Approach Slab)	Cu. Yd.	92.1	-	92.1
Furnishing and Erecting Structural Steel	L. Sum	1	-	1
Stud Shear Connectors	Each	15,714	-	15,714
Reinforcement Bars, Epoxy Coated	Pound	430,980	97,790	528,770
Mechanical Splicers	Each	-	900	900
Furnishing Steel Piles HP12x53	Foot	-	9,246	9,246
Furnishing Steel Piles HP12x63	Foot	-	3,216	3,216
Driving Piles	Foot	-	12,462	12,462
Test Pile Steel HP12x53	Each	-	3	3
Test Pile Steel HP12x63	Each	-	1	1
Name Plates	Each	1	-	1
Finger Plate Expansion Joint, 6"	Foot	64	-	64
Fabric Reinforced Elastomeric Trough	Foot	77	-	77
Elastomeric Bearing Assembly, Type III	Each	12	-	12
Anchor Bolts, 1"	Each	24	-	24
Anchor Bolts, 1 1/4"	Each	192	-	192
Concrete Sealer	Sq. Ft.	-	848	848
Geocomposite Wall Drain	Sq. Yd.	-	58	58
High Load Multi-Rotational Bearings, Guided Expansion, 400k	Each	36	-	36
High Load Multi-Rotational Bearings, Fixed - 400k	Each	12	-	12
Granular Backfill for Structures	Cu. Yd.	-	120	120
Drainage Scuppers, DS-11	Each	36	-	36
Pipe Underdrains for Structures 4"	Foot	-	150	150

GENERAL NOTES

Fasteners shall be ASTM A325 Type 1, mechanically galvanized bolts in 7/8" ϕ , in holes 15/16" ϕ , unless otherwise noted.
Calculated weight of Structural Steel = 1,924,030 lb (AASHTO M270 Gr. 50)
= 83,950 lb (AASHTO M270 Gr. 36)
No field welding is permitted except as specified in the contract documents.
Reinforcement bars designated (E) shall be epoxy coated.
Bearing seat surfaces shall be constructed or adjusted to the designated elevations within a tolerance of 1/8 inch (0.01 ft.). Adjustment shall be made either by grinding the surface or by shimming the bearings.
Concrete Sealer shall be applied to the designated areas of the abutments.
The existing structural steel coating contains lead. The Contractor shall take appropriate precautions to deal with the presence of lead on this project.
The Inorganic Zinc Rich Primer / Acrylic / Acrylic Paint System shall be used for shop and field painting of new structural steel except where otherwise noted. The color of the final finish coat for all steel surfaces shall be Gray, Munsell No. 5B 7/1.
Layout of the slope protection system may be varied to suit ground conditions in the field as directed by the Engineer.
The embankment configuration shown shall be the minimum that must be placed and compacted prior to construction of the abutments.
Finger plate expansion joints shall be assembled in their final relative position with the ends in place for shop inspection and acceptance.

INDEX OF SHEETS

SHEET #'s	DESCRIPTION
1-2	General Plan & Elevation
3	General Data
4	Footing Layout
5-9	Top of Slab Elevations
10	Approach Slab Elevations
11	Superstructure
12-14	Superstructure Details
15-16	Bridge Approach Slab Details
17	Drainage Scupper, DS-11
18-20	Finger Plate Expansion Joint Details
21-23	Framing Plan
24-26	Structural Steel Details
27	Bearing Details - Abutments
28	Bearing Details - Piers 1,2,3,6,7 & 8
29	Bearing Details - Piers 4 & 5
30	Abutments
31	Abutment Details
32	Pier 1
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39	Pier 8
40	HP Pile Details
41	Concrete Parapet Slipforming Option
42	Bar Splicer Assembly and Mechanical Splicer Details
43-59	Soil Boring Logs

Hutchison Engineering, Inc.
Jacksonville, Peoria & Shorewood, Illinois

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PLOT SCALE = NONE	CHECKED - JOH	REVISED -
PLOT DATE = 1/10/2017	DRAWN - TAC	REVISED -
	CHECKED - BAN	REVISED -

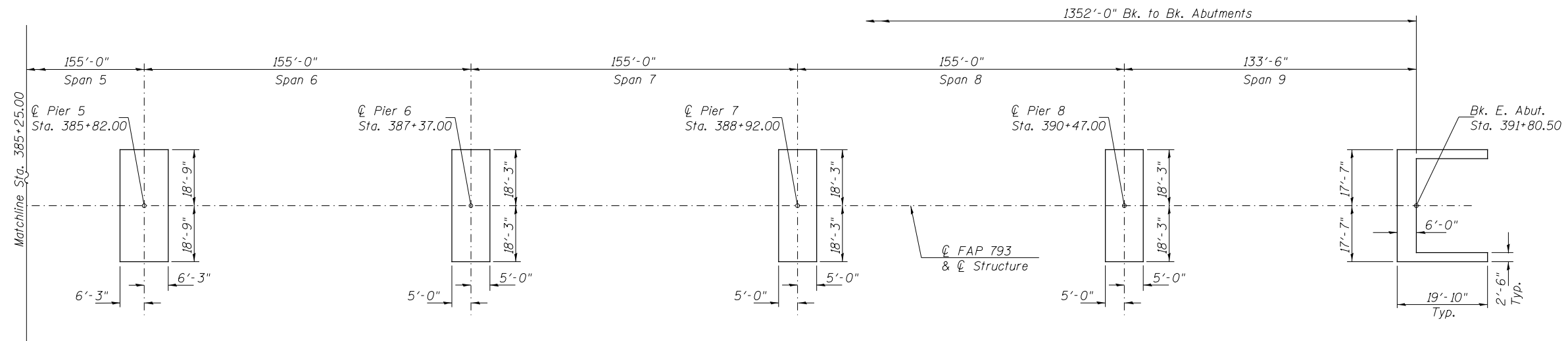
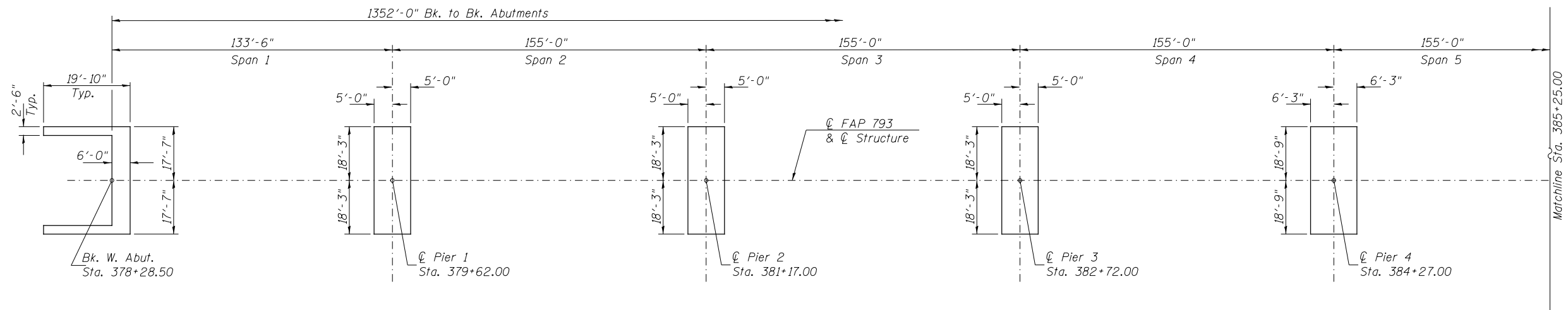
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

GENERAL DATA
STRUCTURE NO. 003-0062

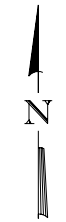
SHEET NO. 3 OF 59 SHEETS

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
793	(40,112)BR-1	BOND	95	29
CONTRACT NO.			76967	

ILLINOIS FED. AID PROJECT



PLAN



Hutchison Engineering, Inc.
 Jacksonville, Peoria & Shorewood, Illinois

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PLOT DATE = 1/10/2017	DRAWN - TAC	REVISED -
	CHECKED - BAN	REVISED -

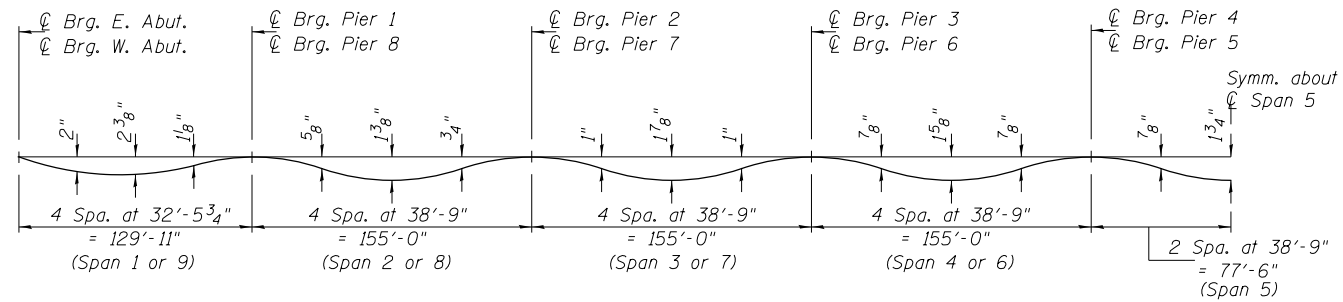
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

FOOTING LAYOUT
STRUCTURE NO. 003-0062

SHEET NO. 4 OF 59 SHEETS

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
793	(40,112)BR-1	BOND	95	30
CONTRACT NO. 76967				

ILLINOIS FED. AID PROJECT

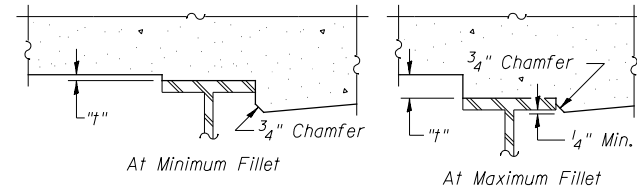


DEAD LOAD DEFLECTION DIAGRAM

(Includes weight of concrete only.)

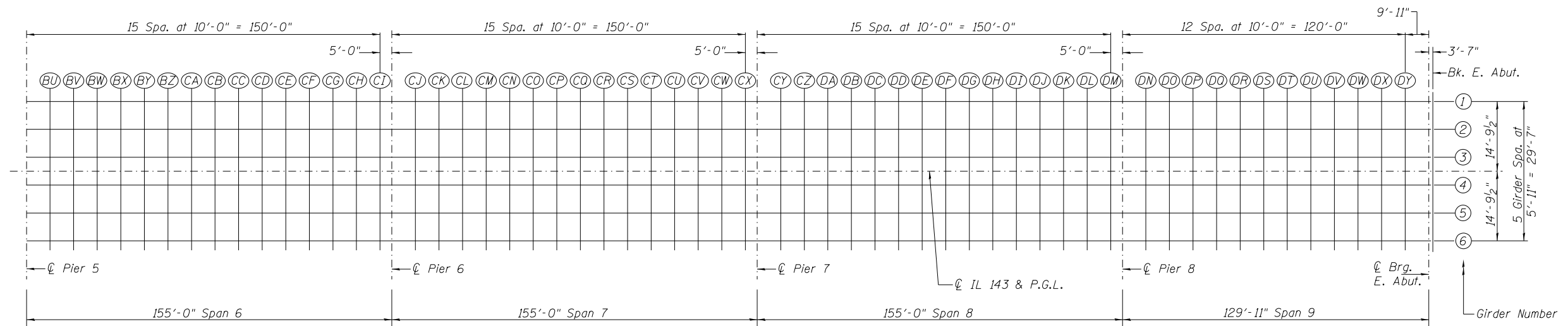
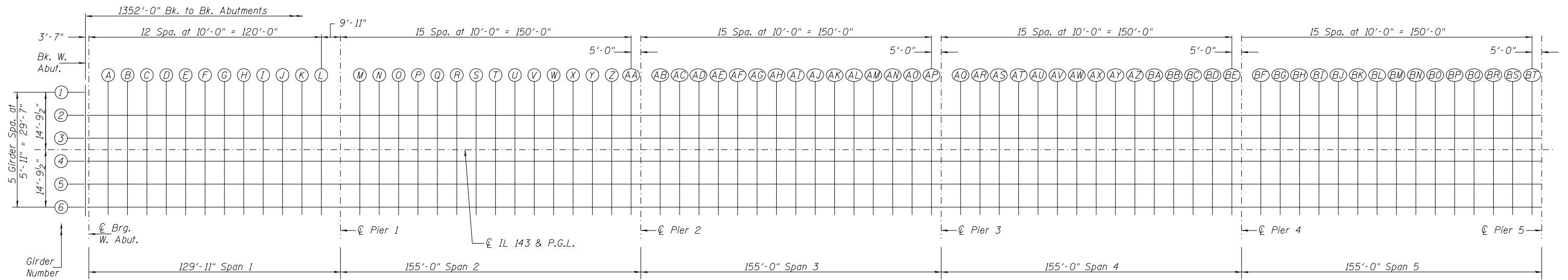
Note:

The above deflections are not to be used in the field if the engineer is working from the grade elevations adjusted for dead load deflections as shown in tables on sheets 6, 7, 8 & 9 of 59 sheets.



To determine "t": After all structural steel has been erected, elevations of the top flanges of the beams shall be taken at intervals shown below. These elevations subtracted from the "Theoretical Grade Elevations Adjusted for Dead Load Deflection" shown on sheets 6-9 of 59, minus slab thickness, equals the fillet heights "t" above top flange of beams.

FILLET HEIGHTS



PLAN



Hutchison Engineering, Inc.
Jacksonville, Peoria & Shorewood, Illinois

USER NAME =	DESIGNED - BAN	REVISED -
PLOT SCALE = NONE	CHECKED - JOH	REVISED -
PLOT DATE = 3/8/2017	DRAWN - TAC	REVISED -
	CHECKED - BAN	REVISED -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**TOP OF SLAB ELEVATIONS
STRUCTURE NO. 003-0062**

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
793	(40,112)BR-1	BOND	95	31
CONTRACT NO.			76967	

SHEET NO. 5 OF 59 SHEETS

ILLINOIS FED. AID PROJECT

GIRDER 1

GIRDER 2

Location	Station	Offset	Theoretical Grade Elevations	Theoretical Grade Elevations Adjusted For Dead Load Deflection
BK OF W ABUT	37828.50	-14.79	467.78	467.78
CL BRG W ABUT	37832.08	-14.79	467.80	467.80
A	37842.08	-14.79	467.85	467.92
B	37852.08	-14.79	467.90	468.02
C	37862.08	-14.79	467.95	468.11
D	37872.08	-14.79	468.00	468.19
E	37882.08	-14.79	468.05	468.26
F	37892.08	-14.79	468.10	468.31
G	37902.08	-14.79	468.15	468.34
H	37912.08	-14.79	468.20	468.36
I	37922.08	-14.79	468.25	468.37
J	37932.08	-14.79	468.30	468.38
K	37942.08	-14.79	468.35	468.39
L	37952.08	-14.79	468.40	468.41
CL BRG PIER 1	37962.00	-14.79	468.45	468.45
M	37972.00	-14.79	468.50	468.49
N	37982.00	-14.79	468.55	468.55
O	37992.00	-14.79	468.60	468.62
P	38002.00	-14.79	468.65	468.70
Q	38012.00	-14.79	468.70	468.77
R	38022.00	-14.79	468.74	468.84
S	38032.00	-14.79	468.79	468.91
T	38042.00	-14.79	468.84	468.96
U	38052.00	-14.79	468.89	469.00
V	38062.00	-14.79	468.94	469.04
W	38072.00	-14.79	468.99	469.07
X	38082.00	-14.79	469.04	469.09
Y	38092.00	-14.79	469.09	469.12
Z	38102.00	-14.79	469.14	469.15
AA	38112.00	-14.79	469.19	469.19
CL BRG PIER 2	38117.00	-14.79	469.22	469.22
AB	38127.00	-14.79	469.26	469.27
AC	38137.00	-14.79	469.31	469.34
AD	38147.00	-14.79	469.36	469.42
AE	38157.00	-14.79	469.41	469.50
AF	38167.00	-14.79	469.46	469.58
AG	38177.00	-14.79	469.51	469.65
AH	38187.00	-14.79	469.56	469.71
AI	38197.00	-14.79	469.61	469.76
AJ	38207.00	-14.79	469.66	469.81
AK	38217.00	-14.79	469.71	469.84
AL	38227.00	-14.79	469.76	469.86
AM	38237.00	-14.79	469.81	469.88
AN	38247.00	-14.79	469.86	469.89
AO	38257.00	-14.79	469.91	469.92
AP	38267.00	-14.79	469.96	469.96
CL BRG PIER 3	38272.00	-14.79	469.98	469.98
AQ	38282.00	-14.79	470.03	470.03
AR	38292.00	-14.79	470.08	470.10
AS	38302.00	-14.79	470.13	470.18
AT	38312.00	-14.79	470.18	470.26
AU	38322.00	-14.79	470.23	470.33
AV	38332.00	-14.79	470.28	470.40
AW	38342.00	-14.79	470.33	470.47
AX	38352.00	-14.79	470.38	470.52
AY	38362.00	-14.79	470.42	470.56
AZ	38372.00	-14.79	470.47	470.58
BA	38382.00	-14.79	470.50	470.59
BB	38392.00	-14.79	470.53	470.59
BC	38402.00	-14.79	470.56	470.59
BD	38412.00	-14.79	470.58	470.59
BE	38422.00	-14.79	470.60	470.59
CL BRG PIER 4	38427.00	-14.79	470.60	470.60
BF	38437.00	-14.79	470.61	470.61
BG	38447.00	-14.79	470.62	470.64
BH	38457.00	-14.79	470.61	470.66
BI	38467.00	-14.79	470.61	470.69
BJ	38477.00	-14.79	470.60	470.70
BK	38487.00	-14.79	470.58	470.71
BL	38497.00	-14.79	470.56	470.70
BM	38507.00	-14.79	470.53	470.68
BN	38517.00	-14.79	470.50	470.64
BO	38527.00	-14.79	470.47	470.59
BP	38537.00	-14.79	470.42	470.52
BQ	38547.00	-14.79	470.38	470.44
BR	38557.00	-14.79	470.33	470.36
BS	38567.00	-14.79	470.28	470.29
BT	38577.00	-14.79	470.23	470.23

Location	Station	Offset	Theoretical Grade Elevations	Theoretical Grade Elevations Adjusted For Dead Load Deflection
CL BRG PIER 5	38582.00	-14.79	470.20	470.20
BU	38592.00	-14.79	470.15	470.16
BV	38602.00	-14.79	470.10	470.12
BW	38612.00	-14.79	470.05	470.10
BX	38622.00	-14.79	470.00	470.08
BY	38632.00	-14.79	469.95	470.06
BZ	38642.00	-14.79	469.90	470.03
CA	38652.00	-14.79	469.85	469.99
CB	38662.00	-14.79	469.80	469.94
CC	38672.00	-14.79	469.75	469.89
CD	38682.00	-14.79	469.70	469.82
CE	38692.00	-14.79	469.65	469.74
CF	38702.00	-14.79	469.60	469.66
CG	38712.00	-14.79	469.55	469.58
CH	38722.00	-14.79	469.50	469.51
CI	38732.00	-14.79	469.45	469.45
CL BRG PIER 6	38737.00	-14.79	469.43	469.43
CJ	38747.00	-14.79	469.38	469.38
CK	38757.00	-14.79	469.33	469.35
CL	38767.00	-14.79	469.28	469.33
CM	38777.00	-14.79	469.23	469.31
CN	38787.00	-14.79	469.18	469.29
CO	38797.00	-14.79	469.13	469.27
CP	38807.00	-14.79	469.08	469.23
CQ	38817.00	-14.79	469.03	469.18
CR	38827.00	-14.79	468.98	469.13
CS	38837.00	-14.79	468.93	469.06
CT	38847.00	-14.79	468.88	468.98
CU	38857.00	-14.79	468.83	468.90
CV	38867.00	-14.79	468.78	468.82
CW	38877.00	-14.79	468.73	468.74
CX	38887.00	-14.79	468.68	468.68
CL BRG PIER 7	38892.00	-14.79	468.65	468.65
CY	38902.00	-14.79	468.60	468.60
CZ	38912.00	-14.79	468.55	468.57
DA	38922.00	-14.79	468.50	468.54
DB	38932.00	-14.79	468.45	468.52
DC	38942.00	-14.79	468.40	468.49
DD	38952.00	-14.79	468.35	468.46
DE	38962.00	-14.79	468.30	468.42
DF	38972.00	-14.79	468.25	468.37
DG	38982.00	-14.79	468.20	468.31
DH	38992.00	-14.79	468.15	468.24
DI	39002.00	-14.79	468.10	468.17
DJ	39012.00	-14.79	468.05	468.09
DK	39022.00	-14.79	468.00	468.02
DL	39032.00	-14.79	467.95	467.95
DM	39042.00	-14.79	467.90	467.90
CL BRG PIER 8	39047.00	-14.79	467.88	467.88
DN	39057.00	-14.79	467.83	467.84
DO	39067.00	-14.79	467.78	467.82
DP	39077.00	-14.79	467.73	467.81
DQ	39087.00	-14.79	467.68	467.80
DR	39097.00	-14.79	467.63	467.79
DS	39107.00	-14.79	467.58	467.77
DT	39117.00	-14.79	467.53	467.73
DU	39127.00	-14.79	467.48	467.69
DV	39137.00	-14.79	467.43	467.62
DW	39147.00	-14.79	467.38	467.54
DX	39157.00	-14.79	467.33	467.45
DY	39167.00	-14.79	467.28	467.34
CL BRG E ABUT	39176.92	-14.79	467.23	467.23
BK OF E ABUT	39180.50	-14.79	467.21	467.21

Location	Station	Offset	Theoretical Grade Elevations	Theoretical Grade Elevations Adjusted For Dead Load Deflection
BK OF W ABUT	37828.50	-8.87	467.89	467.89
CL BRG W ABUT	37832.08	-8.87	467.91	467.91
A	37842.08	-8.87	467.96	468.02
B	37852.08	-8.87	468.01	468.12
C	37862.08	-8.87	468.06	468.22
D	37872.08	-8.87	468.11	468.30
E	37882.08	-8.87	468.15	468.36
F	37892.08	-8.87	468.20	468.41
G	37902.08	-8.87	468.25	468.44
H	37912.08	-8.87	468.30	468.46
I	37922.08	-8.87	468.35	468.47
J	37932.08	-8.87	468.40	468.48
K	37942.08	-8.87	468.45	468.49
L	37952.08	-8.87	468.50	468.51
CL BRG PIER 1	37962.00	-8.87	468.55	468.55
M	37972.00	-8.87	468.60	468.59
N	37982.00	-8.87	468.65	468.65
O	37992.00	-8.87	468.70	468.73
P	38002.00	-8.87	468.75	468.80
Q	38012.00	-8.87	468.80	468.88
R	38022.00	-8.87	468.85	468.95
S	38032.00	-8.87	468.90	469.01
T	38042.00	-8.87	468.95	469.06
U	38052.00	-8.87	469.00	469.11
V	38062.00	-8.87	469.05	469.14
W	38072.00	-8.87	469.10	469.17
X	38082.00	-8.87	469.14	469.19
Y	38092.00	-8.87	469.19	469.22
Z	38102.00	-8.87	469.24	469.25
AA	38112.00	-8.87	469.29	469.29
CL BRG PIER 2	38117.00	-8.87	469.32	469.32
AB	38127.00	-8.87	469.37	469.37
AC	38137.00	-8.87	469.42	469.44
AD	38147.00	-8.87	469.47	469.52
AE	38157.00	-8.87	469.52	469.60
AF	38167.00	-8.87	469.57	469.68
AG	38177.00	-8.87	469.61	469.75
AH	38187.00	-8.87	469.66	469.82
AI	38197.00	-8.87	469.71	469.87
AJ	38207.00	-8.87	469.76	469.91
AK	38217.00	-8.87	469.81	469.94
AL	38227.00	-8.87	469.86	469.96
AM	38237.00	-8.87	469.91	469.98
AN	38247.00	-8.87	469.96	470.00
AO	38257.00	-8.87	470.01	470.02
AP	38267.00	-8.87	470.06	470.06
CL BRG PIER 3	38272.00	-8.87	470.09	470.09
AQ	38282.00	-8.87	470.13	470.14
AR	38292.00	-8.87	470.18	470.20
AS	38302.00	-8.87	470.23	470.28
AT	38312.00	-8.87	470.28	470.36
AU	38322.00	-8.87	470.33	470.44
AV	38332.00	-8.87	470.38	470.51
AW	38342.00	-8.87	470.43	470.57
AX	38352.00	-8.87	470.48	470.62
AY	38362.00	-8.87	470.53	470.66
AZ	38372.00	-8.87	470.57	470.68
BA	38382.00	-8.87	470.60	470.69
BB	38392.00	-8.87	470.64	470.70
BC	38402.00	-8.87	470.66	470.69
BD	38412.00	-8.87	470.68	470.69
BE	38422.00	-8.87	470.70	470.70
CL BRG PIER 4	38427.00	-8.87	470.71	470.71
BF	38437.00	-8.87	470.71	470.72
BG	38447.00	-8.87	470.72	470.74
BH	38457.00	-8.87	470.72	470.77
BI	38467.00	-8.87	470.71	470.79
BJ	38477.00	-8.87	470.70	470.81
BK	38487.00	-8.87	470.68	470.81
BL	38497.00	-8.87	470.66	470.81
BM	38507.00	-8.87	470.64	470.78
BN	38517.00	-8.87	470.60	470.74
BO	38527.00	-8.87	470.57	470.69
BP	3			

GIRDER 3

Q FAP 793 AND PROFILE GRADE

Location	Station	Offset	Theoretical Grade Elevations	Theoretical Grade Elevations Adjusted For Dead Load Deflection
BK OF W ABUT	37828.50	-2.96	467.98	467.98
CL BRG W ABUT	37832.08	-2.96	468.00	468.00
A	37842.08	-2.96	468.05	468.11
B	37852.08	-2.96	468.09	468.21
C	37862.08	-2.96	468.14	468.31
D	37872.08	-2.96	468.19	468.39
E	37882.08	-2.96	468.24	468.45
F	37892.08	-2.96	468.29	468.50
G	37902.08	-2.96	468.34	468.53
H	37912.08	-2.96	468.39	468.55
I	37922.08	-2.96	468.44	468.56
J	37932.08	-2.96	468.49	468.57
K	37942.08	-2.96	468.54	468.58
L	37952.08	-2.96	468.59	468.60
CL PIER 1	37962.00	-2.96	468.64	468.64
M	37972.00	-2.96	468.69	468.68
N	37982.00	-2.96	468.74	468.74
O	37992.00	-2.96	468.79	468.81
P	38002.00	-2.96	468.84	468.89
Q	38012.00	-2.96	468.89	468.97
R	38022.00	-2.96	468.94	469.04
S	38032.00	-2.96	468.99	469.10
T	38042.00	-2.96	469.04	469.15
U	38052.00	-2.96	469.08	469.20
V	38062.00	-2.96	469.13	469.23
W	38072.00	-2.96	469.18	469.26
X	38082.00	-2.96	469.23	469.28
Y	38092.00	-2.96	469.28	469.31
Z	38102.00	-2.96	469.33	469.34
AA	38112.00	-2.96	469.38	469.38
CL BRG PIER 2	38117.00	-2.96	469.41	469.41
AB	38127.00	-2.96	469.46	469.46
AC	38137.00	-2.96	469.51	469.53
AD	38147.00	-2.96	469.56	469.61
AE	38157.00	-2.96	469.60	469.69
AF	38167.00	-2.96	469.65	469.77
AG	38177.00	-2.96	469.70	469.84
AH	38187.00	-2.96	469.75	469.90
AI	38197.00	-2.96	469.80	469.96
AJ	38207.00	-2.96	469.85	469.98
AK	38217.00	-2.96	469.90	470.03
AL	38227.00	-2.96	469.95	470.05
AM	38237.00	-2.96	470.00	470.07
AN	38247.00	-2.96	470.05	470.09
AO	38257.00	-2.96	470.10	470.11
AP	38267.00	-2.96	470.15	470.15
CL BRG PIER 3	38272.00	-2.96	470.17	470.17
AQ	38282.00	-2.96	470.22	470.22
AR	38292.00	-2.96	470.27	470.29
AS	38302.00	-2.96	470.32	470.37
AT	38312.00	-2.96	470.37	470.45
AU	38322.00	-2.96	470.42	470.52
AV	38332.00	-2.96	470.47	470.60
AW	38342.00	-2.96	470.52	470.66
AX	38352.00	-2.96	470.57	470.71
AY	38362.00	-2.96	470.62	470.75
AZ	38372.00	-2.96	470.66	470.77
BA	38382.00	-2.96	470.69	470.78
BB	38392.00	-2.96	470.72	470.79
BC	38402.00	-2.96	470.75	470.78
BD	38412.00	-2.96	470.77	470.78
BE	38422.00	-2.96	470.79	470.79
CL BRG PIER 4	38427.00	-2.96	470.79	470.79
BF	38437.00	-2.96	470.80	470.80
BG	38447.00	-2.96	470.81	470.83
BH	38457.00	-2.96	470.81	470.85
BI	38467.00	-2.96	470.80	470.88
BJ	38477.00	-2.96	470.79	470.90
BK	38487.00	-2.96	470.77	470.90
BL	38497.00	-2.96	470.75	470.89
BM	38507.00	-2.96	470.72	470.87
BN	38517.00	-2.96	470.69	470.83
BO	38527.00	-2.96	470.66	470.78
BP	38537.00	-2.96	470.62	470.71
BQ	38547.00	-2.96	470.57	470.63
BR	38557.00	-2.96	470.52	470.55
BS	38567.00	-2.96	470.47	470.48
BT	38577.00	-2.96	470.42	470.42

Location	Station	Offset	Theoretical Grade Elevations	Theoretical Grade Elevations Adjusted For Dead Load Deflection
CL BRG PIER 5	38582.00	-2.96	470.40	470.40
BU	38592.00	-2.96	470.35	470.35
BV	38602.00	-2.96	470.30	470.31
BW	38612.00	-2.96	470.25	470.29
BX	38622.00	-2.96	470.20	470.27
BY	38632.00	-2.96	470.15	470.25
BZ	38642.00	-2.96	470.10	470.22
CA	38652.00	-2.96	470.05	470.18
CB	38662.00	-2.96	470.00	470.14
CC	38672.00	-2.96	469.95	470.08
CD	38682.00	-2.96	469.90	470.01
CE	38692.00	-2.96	469.85	469.93
CF	38702.00	-2.96	469.80	469.86
CG	38712.00	-2.96	469.75	469.78
CH	38722.00	-2.96	469.70	469.70
CI	38732.00	-2.96	469.65	469.64
CL BRG PIER 6	38737.00	-2.96	469.62	469.62
CJ	38747.00	-2.96	469.57	469.57
CK	38757.00	-2.96	469.52	469.54
CL	38767.00	-2.96	469.47	469.52
CM	38777.00	-2.96	469.42	469.50
CN	38787.00	-2.96	469.37	469.48
CO	38797.00	-2.96	469.32	469.46
CP	38807.00	-2.96	469.27	469.42
CQ	38817.00	-2.96	469.22	469.37
CR	38827.00	-2.96	469.17	469.32
CS	38837.00	-2.96	469.12	469.25
CT	38847.00	-2.96	469.07	469.17
CU	38857.00	-2.96	469.02	469.09
CV	38867.00	-2.96	468.97	469.01
CW	38877.00	-2.96	468.92	468.93
CX	38887.00	-2.96	468.87	468.87
CL BRG PIER 7	38892.00	-2.96	468.85	468.85
CY	38902.00	-2.96	468.80	468.79
CZ	38912.00	-2.96	468.75	468.76
DA	38922.00	-2.96	468.70	468.73
DB	38932.00	-2.96	468.65	468.71
DC	38942.00	-2.96	468.60	468.68
DD	38952.00	-2.96	468.55	468.65
DE	38962.00	-2.96	468.50	468.61
DF	38972.00	-2.96	468.45	468.56
DG	38982.00	-2.96	468.40	468.50
DH	38992.00	-2.96	468.35	468.44
DI	39002.00	-2.96	468.30	468.36
DJ	39012.00	-2.96	468.25	468.29
DK	39022.00	-2.96	468.20	468.21
DL	39032.00	-2.96	468.15	468.14
DM	39042.00	-2.96	468.10	468.09
CL BRG PIER 8	39047.00	-2.96	468.07	468.07
DN	39057.00	-2.96	468.02	468.03
DO	39067.00	-2.96	467.97	468.01
DP	39077.00	-2.96	467.92	468.00
DQ	39087.00	-2.96	467.87	467.99
DR	39097.00	-2.96	467.82	467.98
DS	39107.00	-2.96	467.77	467.96
DT	39117.00	-2.96	467.72	467.93
DU	39127.00	-2.96	467.67	467.88
DV	39137.00	-2.96	467.62	467.81
DW	39147.00	-2.96	467.57	467.73
DX	39157.00	-2.96	467.52	467.64
DY	39167.00	-2.96	467.47	467.53
CL BRG E ABUT	39176.92	-2.96	467.42	467.42
BK OF E ABUT	39180.50	-2.96	467.40	467.40

Location	Station	Offset	Theoretical Grade Elevations	Theoretical Grade Elevations Adjusted For Dead Load Deflection
BK OF W ABUT	37828.50	0.00	468.02	468.02
CL BRG W ABUT	37832.08	0.00	468.04	468.04
A	37842.08	0.00	468.09	468.15
B	37852.08	0.00	468.14	468.26
C	37862.08	0.00	468.19	468.35
D	37872.08	0.00	468.24	468.43
E	37882.08	0.00	468.29	468.49
F	37892.08	0.00	468.34	468.54
G	37902.08	0.00	468.39	468.58
H	37912.08	0.00	468.44	468.60
I	37922.08	0.00	468.49	468.61
J	37932.08	0.00	468.54	468.62
K	37942.08	0.00	468.59	468.63
L	37952.08	0.00	468.63	468.65
CL BRG PIER 1	37962.00	0.00	468.68	468.68
M	37972.00	0.00	468.73	468.73
N	37982.00	0.00	468.78	468.79
O	37992.00	0.00	468.83	468.86
P	38002.00	0.00	468.88	468.93
Q	38012.00	0.00	468.93	469.01
R	38022.00	0.00	468.98	469.08
S	38032.00	0.00	469.03	469.14
T	38042.00	0.00	469.08	469.20
U	38052.00	0.00	469.13	469.24
V	38062.00	0.00	469.18	469.27
W	38072.00	0.00	469.23	469.30
X	38082.00	0.00	469.28	469.33
Y	38092.00	0.00	469.33	469.35
Z	38102.00	0.00	469.38	469.38
AA	38112.00	0.00	469.43	469.42
CL BRG PIER 2	38117.00	0.00	469.45	469.45
AB	38127.00	0.00	469.50	469.51
AC	38137.00	0.00	469.55	469.58
AD	38147.00	0.00	469.60	469.65
AE	38157.00	0.00	469.65	469.74
AF	38167.00	0.00	469.70	469.81
AG	38177.00	0.00	469.75	469.89
AH	38187.00	0.00	469.80	469.95
AI	38197.00	0.00	469.85	470.00
AJ	38207.00	0.00	469.90	470.04
AK	38217.00	0.00	469.95	470.07
AL	38227.00	0.00	470.00	470.09
AM	38237.00	0.00	470.05	470.11
AN	38247.00	0.00	470.09	470.13
AO	38257.00	0.00	470.14	470.15
AP	38267.00	0.00	470.19	470.19
CL BRG PIER 3	38272.00	0.00	470.22	470.22
AQ	38282.00	0.00	470.27	470.27
AR	38292.00	0.00	470.32	470.34
AS	38302.00	0.00	470.37	470.41
AT	38312.00	0.00	470.42	470.49
AU	38322.00	0.00	470.47	470.57
AV	38332.00	0.00	470.52	470.64
AW	38342.00	0.00	470.57	470.70
AX	38352.00	0.00	470.61	470.75
AY	38362.00	0.00	470.66	470.79
AZ	38372.00	0.00	470.70	470.82
BA	38382.00	0.00	470.74	470.83
BB	38392.00	0.00	470.77	470.83
BC	38402.00	0.00	470.80	470.83
BD	38412.00	0.00	470.82	470.82
BE	38422.00	0.00	470.83	470.83
CL BRG PIER 4	38427.00	0.00	470.84	470.84
BF	38437.00	0.00	470.85	470.85
BG	38447.00	0.00	470.85	470.87
BH	38457.00	0.00	470.85	470.90
BI	38467.00	0.00	470.84	470.92
BJ	38477.00	0.00	470.83	470.94
BK	38487.00	0.00	470.82	470.95
BL	38497.00	0.00	470.80	470.94
BM	38507.00	0.00	470.77	470.92
BN	38517.00	0.00	470.74	470.88
BO	38527.00	0.00	470.70	470.82
BP	38537.00	0.00	470.66	470.76
BQ	38547.00	0.00	470.61	470.68
BR	38557.00	0.00	470.5	

GIRDER 4

GIRDER 5

Location	Station	Offset	Theoretical Grade Elevations	Theoretical Grade Elevations Adjusted For Dead Load Deflection
BK OF W ABUT	37828.50	2.96	467.98	467.98
CL BRG W ABUT	37832.08	2.96	468.00	468.00
A	37842.08	2.96	468.05	468.11
B	37852.08	2.96	468.09	468.21
C	37862.08	2.96	468.14	468.31
D	37872.08	2.96	468.19	468.39
E	37882.08	2.96	468.24	468.45
F	37892.08	2.96	468.29	468.50
G	37902.08	2.96	468.34	468.53
H	37912.08	2.96	468.39	468.55
I	37922.08	2.96	468.44	468.56
J	37932.08	2.96	468.49	468.57
K	37942.08	2.96	468.54	468.58
L	37952.08	2.96	468.59	468.60
CL BRG PIER 1	37962.00	2.96	468.64	468.64
M	37972.00	2.96	468.69	468.68
N	37982.00	2.96	468.74	468.74
O	37992.00	2.96	468.79	468.81
P	38002.00	2.96	468.84	468.88
Q	38012.00	2.96	468.89	468.97
R	38022.00	2.96	468.94	469.04
S	38032.00	2.96	468.99	469.10
T	38042.00	2.96	469.04	469.15
U	38052.00	2.96	469.08	469.20
V	38062.00	2.96	469.13	469.23
W	38072.00	2.96	469.18	469.26
X	38082.00	2.96	469.23	469.28
Y	38092.00	2.96	469.28	469.31
Z	38102.00	2.96	469.33	469.34
AA	38112.00	2.96	469.38	469.38
CL BRG PIER 2	38117.00	2.96	469.41	469.41
AB	38127.00	2.96	469.46	469.46
AC	38137.00	2.96	469.51	469.53
AD	38147.00	2.96	469.56	469.61
AE	38157.00	2.96	469.60	469.69
AF	38167.00	2.96	469.65	469.77
AG	38177.00	2.96	469.70	469.84
AH	38187.00	2.96	469.75	469.90
AI	38197.00	2.96	469.80	469.96
AJ	38207.00	2.96	469.85	470.00
AK	38217.00	2.96	469.90	470.03
AL	38227.00	2.96	469.95	470.05
AM	38237.00	2.96	470.00	470.07
AN	38247.00	2.96	470.05	470.09
AO	38257.00	2.96	470.10	470.11
AP	38267.00	2.96	470.15	470.15
CL BRG PIER 3	38272.00	2.96	470.17	470.17
AQ	38282.00	2.96	470.22	470.22
AR	38292.00	2.96	470.27	470.29
AS	38302.00	2.96	470.32	470.37
AT	38312.00	2.96	470.37	470.45
AU	38322.00	2.96	470.42	470.52
AV	38332.00	2.96	470.47	470.60
AW	38342.00	2.96	470.52	470.66
AX	38352.00	2.96	470.57	470.71
AY	38362.00	2.96	470.62	470.75
AZ	38372.00	2.96	470.66	470.77
BA	38382.00	2.96	470.69	470.78
BB	38392.00	2.96	470.72	470.79
BC	38402.00	2.96	470.75	470.78
BD	38412.00	2.96	470.77	470.78
BE	38422.00	2.96	470.79	470.79
CL BRG PIER 4	38427.00	2.96	470.79	470.79
BF	38437.00	2.96	470.80	470.80
BG	38447.00	2.96	470.81	470.83
BH	38457.00	2.96	470.81	470.85
BI	38467.00	2.96	470.80	470.88
BJ	38477.00	2.96	470.79	470.90
BK	38487.00	2.96	470.77	470.90
BL	38497.00	2.96	470.75	470.89
BM	38507.00	2.96	470.72	470.87
BN	38517.00	2.96	470.69	470.83
BO	38527.00	2.96	470.66	470.78
BP	38537.00	2.96	470.62	470.71
BQ	38547.00	2.96	470.57	470.63
BR	38557.00	2.96	470.52	470.55
BS	38567.00	2.96	470.47	470.48
BT	38577.00	2.96	470.42	470.42

Location	Station	Offset	Theoretical Grade Elevations	Theoretical Grade Elevations Adjusted For Dead Load Deflection
CL BRG PIER 5	38582.00	2.96	470.40	470.40
BU	38592.00	2.96	470.35	470.35
BV	38602.00	2.96	470.30	470.31
BW	38612.00	2.96	470.25	470.29
BX	38622.00	2.96	470.20	470.27
BY	38632.00	2.96	470.15	470.25
BZ	38642.00	2.96	470.10	470.22
CA	38652.00	2.96	470.05	470.18
CB	38662.00	2.96	470.00	470.14
CC	38672.00	2.96	469.95	470.08
CD	38682.00	2.96	469.90	470.01
CE	38692.00	2.96	469.85	469.93
CF	38702.00	2.96	469.80	469.86
CG	38712.00	2.96	469.75	469.78
CH	38722.00	2.96	469.70	469.70
CI	38732.00	2.96	469.65	469.64
CL BRG PIER 6	38737.00	2.96	469.62	469.62
CJ	38747.00	2.96	469.57	469.57
CK	38757.00	2.96	469.52	469.54
CL	38767.00	2.96	469.47	469.52
CM	38777.00	2.96	469.42	469.50
CN	38787.00	2.96	469.37	469.48
CO	38797.00	2.96	469.32	469.46
CP	38807.00	2.96	469.27	469.42
CQ	38817.00	2.96	469.22	469.37
CR	38827.00	2.96	469.17	469.32
CS	38837.00	2.96	469.12	469.25
CT	38847.00	2.96	469.07	469.17
CU	38857.00	2.96	469.02	469.09
CV	38867.00	2.96	468.97	469.01
CW	38877.00	2.96	468.92	468.93
CX	38887.00	2.96	468.87	468.87
CL BRG PIER 7	38892.00	2.96	468.85	468.85
CY	38902.00	2.96	468.80	468.79
CZ	38912.00	2.96	468.75	468.76
DA	38922.00	2.96	468.70	468.73
DB	38932.00	2.96	468.65	468.71
DC	38942.00	2.96	468.60	468.68
DD	38952.00	2.96	468.55	468.65
DE	38962.00	2.96	468.50	468.61
DF	38972.00	2.96	468.45	468.56
DG	38982.00	2.96	468.40	468.50
DH	38992.00	2.96	468.35	468.44
DI	39002.00	2.96	468.30	468.36
DJ	39012.00	2.96	468.25	468.29
DK	39022.00	2.96	468.20	468.21
DL	39032.00	2.96	468.15	468.14
DM	39042.00	2.96	468.10	468.09
CL BRG PIER 8	39047.00	2.96	468.07	468.07
DN	39057.00	2.96	468.02	468.03
DO	39067.00	2.96	467.97	468.01
DP	39077.00	2.96	467.92	468.00
DQ	39087.00	2.96	467.87	467.99
DR	39097.00	2.96	467.82	467.98
DS	39107.00	2.96	467.77	467.96
DT	39117.00	2.96	467.72	467.93
DV	39127.00	2.96	467.67	467.88
DW	39137.00	2.96	467.62	467.81
DY	39147.00	2.96	467.57	467.73
DX	39157.00	2.96	467.52	467.64
DY	39167.00	2.96	467.47	467.53
CL BRG E ABUT	39176.92	2.96	467.42	467.42
BK OF E ABUT	39180.50	2.96	467.40	467.40

Location	Station	Offset	Theoretical Grade Elevations	Theoretical Grade Elevations Adjusted For Dead Load Deflection
BK OF W ABUT	37828.50	8.87	467.89	467.89
CL BRG W ABUT	37832.08	8.87	467.91	467.91
A	37842.08	8.87	467.96	468.02
B	37852.08	8.87	468.01	468.12
C	37862.08	8.87	468.06	468.22
D	37872.08	8.87	468.11	468.30
E	37882.08	8.87	468.15	468.36
F	37892.08	8.87	468.20	468.41
G	37902.08	8.87	468.25	468.44
H	37912.08	8.87	468.30	468.46
I	37922.08	8.87	468.35	468.47
J	37932.08	8.87	468.40	468.48
K	37942.08	8.87	468.45	468.49
L	37952.08	8.87	468.50	468.51
CL BRG PIER 1	37962.00	8.87	468.55	468.55
M	37972.00	8.87	468.60	468.59
N	37982.00	8.87	468.65	468.65
O	37992.00	8.87	468.70	468.73
P	38002.00	8.87	468.75	468.80
Q	38012.00	8.87	468.80	468.88
R	38022.00	8.87	468.85	468.95
S	38032.00	8.87	468.90	469.01
T	38042.00	8.87	468.95	469.06
U	38052.00	8.87	469.00	469.11
V	38062.00	8.87	469.05	469.17
W	38072.00	8.87	469.10	469.17
X	38082.00	8.87	469.14	469.19
Y	38092.00	8.87	469.19	469.22
Z	38102.00	8.87	469.24	469.25
AA	38112.00	8.87	469.29	469.29
CL BRG PIER 2	38117.00	8.87	469.32	469.32
AB	38127.00	8.87	469.37	469.37
AC	38137.00	8.87	469.42	469.44
AD	38147.00	8.87	469.47	469.52
AE	38157.00	8.87	469.52	469.60
AF	38167.00	8.87	469.57	469.68
AG	38177.00	8.87	469.61	469.75
AH	38187.00	8.87	469.66	469.82
AI	38197.00	8.87	469.71	469.87
AJ	38207.00	8.87	469.76	469.91
AK	38217.00	8.87	469.81	469.94
AL	38227.00	8.87	469.86	469.96
AM	38237.00	8.87	469.91	469.98
AN	38247.00	8.87	469.96	470.00
AO	38257.00	8.87	470.01	470.02
AP	38267.00	8.87	470.06	470.06
CL BRG PIER 3	38272.00	8.87	470.09	470.09
AQ	38282.00	8.87	470.13	470.14
AR	38292.00	8.87	470.18	470.20
AS	38302.00	8.87	470.23	470.28
AT	38312.00	8.87	470.28	470.36
AU	38322.00	8.87	470.33	470.44
AV	38332.00	8.87	470.38	470.51
AW	38342.00	8.87	470.43	470.57
AX	38352.00	8.87	470.48	470.62
AY	38362.00	8.87	470.53	470.66
AZ	38372.00	8.87	470.57	470.68
BA	38382.00	8.87	470.60	470.69
BB	38392.00	8.87	470.64	470.70
BC	38402.00	8.87	470.66	470.69
BD	38412.00	8.87	470.68	470.69
BE	38422.00	8.87	470.70	470.70
CL BRG PIER 4	38427.00	8.87	470.71	470.71
BF	38437.00	8.87	470.71	470.72
BG	38447.00	8.87	470.72	470.74
BH	38457.00	8.87	470.72	470.77
BI	38467.00	8.87	470.71	470.79
BJ	38477.00	8.87	470.70	470.81
BK	38487.00	8.87	470.68	470.81
BL	38497.00	8.87	470.66	470.81
BM	38507.00	8.87	470.64	470.78
BN	38517.00	8.87	470.60	470.74
BO	38527.00	8.87	470.57	470.69
BP	38537.00	8.87	470.53	470.62
BQ	38547.00	8.87	470.48	470.55
BR	38557.00	8.87	470.43	

GIRDER 6

Location	Station	Offset	Theoretical Grade Elevations	Theoretical Grade Elevations Adjusted For Dead Load Deflection	Location	Station	Offset	Theoretical Grade Elevations	Theoretical Grade Elevations Adjusted For Dead Load Deflection
BK OF W ABUT	37828.50	14.79	467.78	467.78	CL BRG PIER 5	38582.00	14.79	470.20	470.20
CL BRG W ABUT	37832.08	14.79	467.80	467.80	BU	38592.00	14.79	470.15	470.16
A	37842.08	14.79	467.85	467.92	BV	38602.00	14.79	470.10	470.12
B	37852.08	14.79	467.90	468.02	BW	38612.00	14.79	470.05	470.10
C	37862.08	14.79	467.95	468.11	BX	38622.00	14.79	470.00	470.08
D	37872.08	14.79	468.00	468.19	BY	38632.00	14.79	469.95	470.06
E	37882.08	14.79	468.05	468.26	BZ	38642.00	14.79	469.90	470.03
F	37892.08	14.79	468.10	468.31	CA	38652.00	14.79	469.85	469.99
G	37902.08	14.79	468.15	468.34	CB	38662.00	14.79	469.80	469.94
H	37912.08	14.79	468.20	468.36	CC	38672.00	14.79	469.75	469.89
I	37922.08	14.79	468.25	468.37	CD	38682.00	14.79	469.70	469.82
J	37932.08	14.79	468.30	468.38	CE	38692.00	14.79	469.65	469.74
K	37942.08	14.79	468.35	468.39	CF	38702.00	14.79	469.60	469.66
L	37952.08	14.79	468.40	468.41	CG	38712.00	14.79	469.55	469.58
CL BRG PIER 1	37962.00	14.79	468.45	468.45	CH	38722.00	14.79	469.50	469.51
M	37972.00	14.79	468.50	468.49	CI	38732.00	14.79	469.45	469.45
N	37982.00	14.79	468.55	468.55	CL BRG PIER 6	38737.00	14.79	469.43	469.43
O	37992.00	14.79	468.60	468.62	CJ	38747.00	14.79	469.38	469.38
P	38002.00	14.79	468.65	468.70	CK	38757.00	14.79	469.33	469.35
Q	38012.00	14.79	468.70	468.77	CL	38767.00	14.79	469.28	469.33
R	38022.00	14.79	468.74	468.84	CM	38777.00	14.79	469.23	469.31
S	38032.00	14.79	468.79	468.91	CN	38787.00	14.79	469.18	469.29
T	38042.00	14.79	468.84	468.96	CO	38797.00	14.79	469.13	469.27
U	38052.00	14.79	468.89	469.00	CP	38807.00	14.79	469.08	469.23
V	38062.00	14.79	468.94	469.04	CQ	38817.00	14.79	469.03	469.18
W	38072.00	14.79	468.99	469.07	CR	38827.00	14.79	468.98	469.13
X	38082.00	14.79	469.04	469.09	CS	38837.00	14.79	468.93	469.06
Y	38092.00	14.79	469.09	469.12	CT	38847.00	14.79	468.88	468.98
Z	38102.00	14.79	469.14	469.15	CU	38857.00	14.79	468.83	468.90
AA	38112.00	14.79	469.19	469.19	CV	38867.00	14.79	468.78	468.82
CL BRG PIER 2	38117.00	14.79	469.22	469.22	CW	38877.00	14.79	468.73	468.74
AB	38127.00	14.79	469.26	469.27	CX	38887.00	14.79	468.68	468.68
AC	38137.00	14.79	469.31	469.34	CL BRG PIER 7	38892.00	14.79	468.65	468.65
AD	38147.00	14.79	469.36	469.42	CY	38902.00	14.79	468.60	468.60
AE	38157.00	14.79	469.41	469.50	CZ	38912.00	14.79	468.55	468.57
AF	38167.00	14.79	469.46	469.58	DA	38922.00	14.79	468.50	468.54
AG	38177.00	14.79	469.51	469.65	DB	38932.00	14.79	468.45	468.52
AH	38187.00	14.79	469.56	469.71	DC	38942.00	14.79	468.40	468.49
AI	38197.00	14.79	469.61	469.76	DD	38952.00	14.79	468.35	468.46
AJ	38207.00	14.79	469.66	469.81	DE	38962.00	14.79	468.30	468.42
AK	38217.00	14.79	469.71	469.84	DF	38972.00	14.79	468.25	468.37
AL	38227.00	14.79	469.76	469.86	DG	38982.00	14.79	468.20	468.31
AM	38237.00	14.79	469.81	469.88	DH	38992.00	14.79	468.15	468.24
AN	38247.00	14.79	469.86	469.89	DI	39002.00	14.79	468.10	468.17
AO	38257.00	14.79	469.91	469.92	DJ	39012.00	14.79	468.05	468.09
AP	38267.00	14.79	469.96	469.96	DK	39022.00	14.79	468.00	468.02
CL BRG PIER 3	38272.00	14.79	469.98	469.98	DL	39032.00	14.79	467.95	467.95
AQ	38282.00	14.79	470.03	470.03	DM	39042.00	14.79	467.90	467.90
AR	38292.00	14.79	470.08	470.10	CL BRG PIER 8	39047.00	14.79	467.88	467.88
AS	38302.00	14.79	470.13	470.18	DN	39057.00	14.79	467.83	467.84
AT	38312.00	14.79	470.18	470.26	DO	39067.00	14.79	467.78	467.82
AU	38322.00	14.79	470.23	470.33	DP	39077.00	14.79	467.73	467.81
AV	38332.00	14.79	470.28	470.40	DQ	39087.00	14.79	467.68	467.80
AW	38342.00	14.79	470.33	470.47	DR	39097.00	14.79	467.63	467.79
AX	38352.00	14.79	470.38	470.52	DS	39107.00	14.79	467.58	467.77
AY	38362.00	14.79	470.42	470.56	DT	39117.00	14.79	467.53	467.73
AZ	38372.00	14.79	470.47	470.58	DU	39127.00	14.79	467.48	467.69
BA	38382.00	14.79	470.50	470.59	DV	39137.00	14.79	467.43	467.62
BB	38392.00	14.79	470.53	470.59	DW	39147.00	14.79	467.38	467.54
BC	38402.00	14.79	470.56	470.59	DX	39157.00	14.79	467.33	467.45
BD	38412.00	14.79	470.58	470.59	DY	39167.00	14.79	467.28	467.34
BE	38422.00	14.79	470.60	470.59	CL BRG E ABUT	39176.92	14.79	467.23	467.23
CL BRG PIER 4	38427.00	14.79	470.60	470.60	BK OF E ABUT	39180.50	14.79	467.21	467.21
BF	38437.00	14.79	470.61	470.61					
BG	38447.00	14.79	470.62	470.64					
BH	38457.00	14.79	470.61	470.66					
BI	38467.00	14.79	470.61	470.69					
BJ	38477.00	14.79	470.60	470.70					
BK	38487.00	14.79	470.58	470.71					
BL	38497.00	14.79	470.56	470.70					
BM	38507.00	14.79	470.53	470.68					
BN	38517.00	14.79	470.50	470.64					
BO	38527.00	14.79	470.47	470.59					
BP	38537.00	14.79	470.42	470.52					
BQ	38547.00	14.79	470.38	470.44					
BR	38557.00	14.79	470.33	470.36					
BS	38567.00	14.79	470.28	470.29					
BT	38577.00	14.79	470.23	470.23					

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

TOP OF SLAB ELEVATIONS
STRUCTURE NO. 003-0062

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
793	(40,112)BR-1	BOND	95	35
ILLINOIS FED. AID PROJECT			CONTRACT NO. 76967	

USER NAME =	DESIGNED - BAN	REVISED -
PLOT SCALE = NONE	CHECKED - JOH	REVISED -
PLOT DATE = 1/10/2017	DRAWN - TAC	REVISED -
	CHECKED - BAN	REVISED -

PRINT DATE: 1/9/2017 10:40:00 AM Y:\1602100_IL_143_over_ShoalCreek_Phase_I\INDGN\Bridge\Final\PlotSheets\0030062-76967-013-TOAS_Elevations.dgn

NORTH EDGE OF SHOULDER

Location	Station	Offset	Theoretical Grade Elevations
Begin W. Appr. Slab	377+99.00	-16.00	467.61
A1	378+09.00	-16.00	467.66
A2	378+19.00	-16.00	467.71
End W. Appr. Slab	378+29.00	-16.00	467.76
Begin E. Appr. Slab	391+80.00	-16.00	467.19
A3	391+90.00	-16.00	467.14
A4	392+00.00	-16.00	467.09
End E. Appr. Slab	392+10.00	-16.00	467.04

NORTH EDGE OF PAVEMENT

Location	Station	Offset	Theoretical Grade Elevations
Begin W. Appr. Slab	377+99.00	-12.00	467.69
A1	378+09.00	-12.00	467.74
A2	378+19.00	-12.00	467.79
End W. Appr. Slab	378+29.00	-12.00	467.84
Begin E. Appr. Slab	391+80.00	-12.00	467.27
A3	391+90.00	-12.00	467.22
A4	392+00.00	-12.00	467.17
End E. Appr. Slab	392+10.00	-12.00	467.12

☉ ROADWAY AND PROFILE GRADE

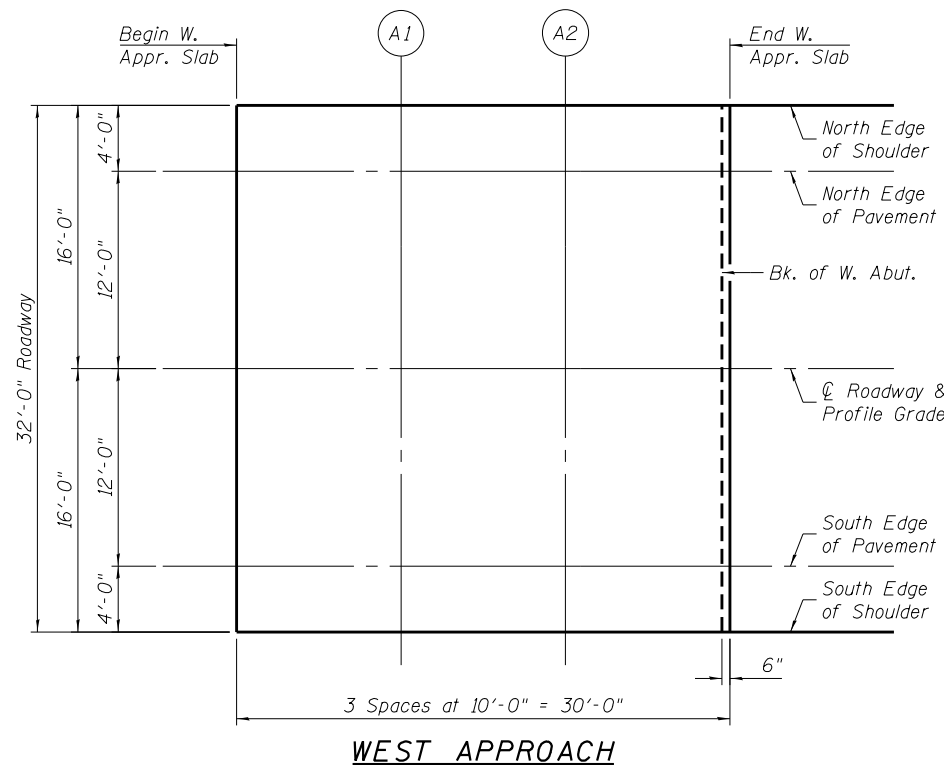
Location	Station	Offset	Theoretical Grade Elevations
Begin W. Appr. Slab	377+99.00	0.00	467.87
A1	378+09.00	0.00	467.92
A2	378+19.00	0.00	467.97
End W. Appr. Slab	378+29.00	0.00	468.02
Begin E. Appr. Slab	391+80.00	0.00	467.45
A3	391+90.00	0.00	467.40
A4	392+00.00	0.00	467.35
End E. Appr. Slab	392+10.00	0.00	467.30

SOUTH EDGE OF PAVEMENT

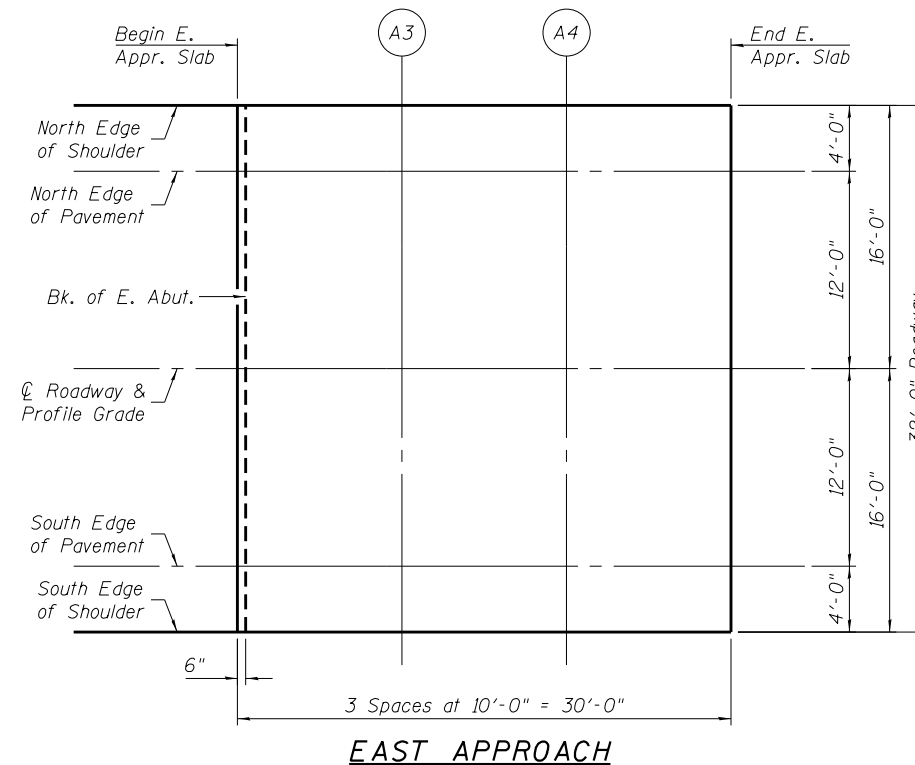
Location	Station	Offset	Theoretical Grade Elevations
Begin W. Appr. Slab	377+99.00	12.00	467.69
A1	378+09.00	12.00	467.74
A2	378+19.00	12.00	467.79
End W. Appr. Slab	378+29.00	12.00	467.84
Begin E. Appr. Slab	391+80.00	12.00	467.27
A3	391+90.00	12.00	467.22
A4	392+00.00	12.00	467.17
End E. Appr. Slab	392+10.00	12.00	467.12

SOUTH EDGE OF SHOULDER

Location	Station	Offset	Theoretical Grade Elevations
Begin W. Appr. Slab	377+99.00	16.00	467.61
A1	378+09.00	16.00	467.66
A2	378+19.00	16.00	467.71
End W. Appr. Slab	378+29.00	16.00	467.76
Begin E. Appr. Slab	391+80.00	16.00	467.19
A3	391+90.00	16.00	467.14
A4	392+00.00	16.00	467.09
End E. Appr. Slab	392+10.00	16.00	467.04

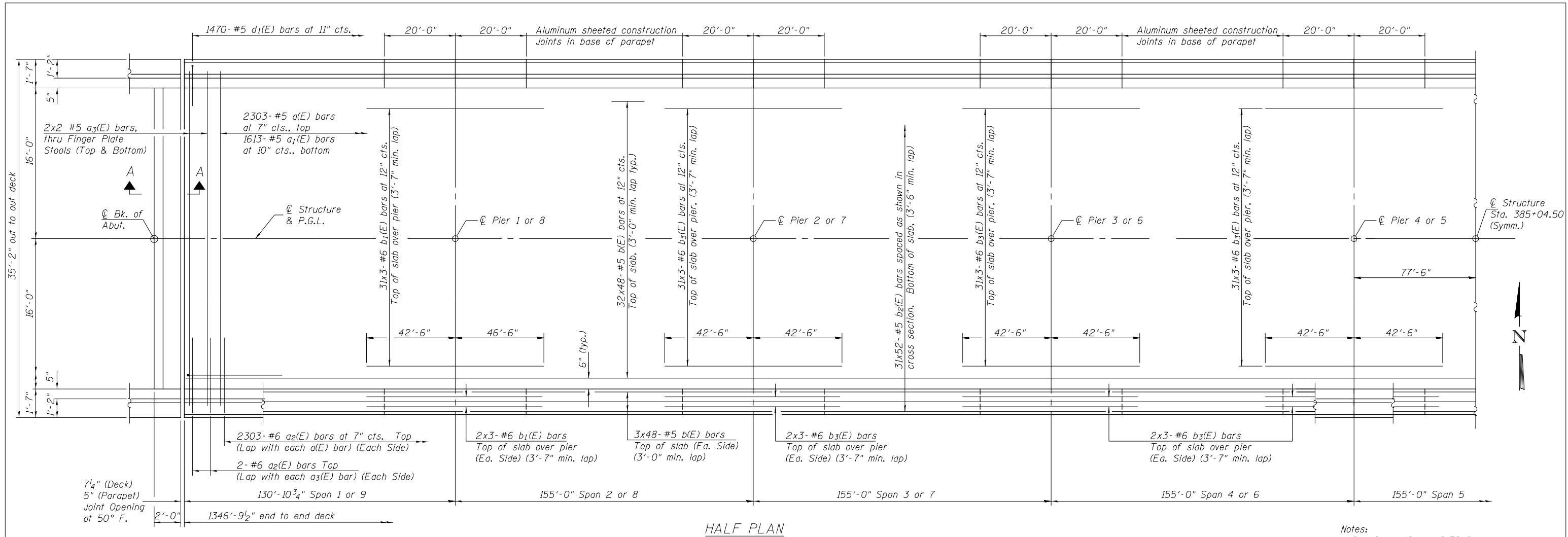


WEST APPROACH

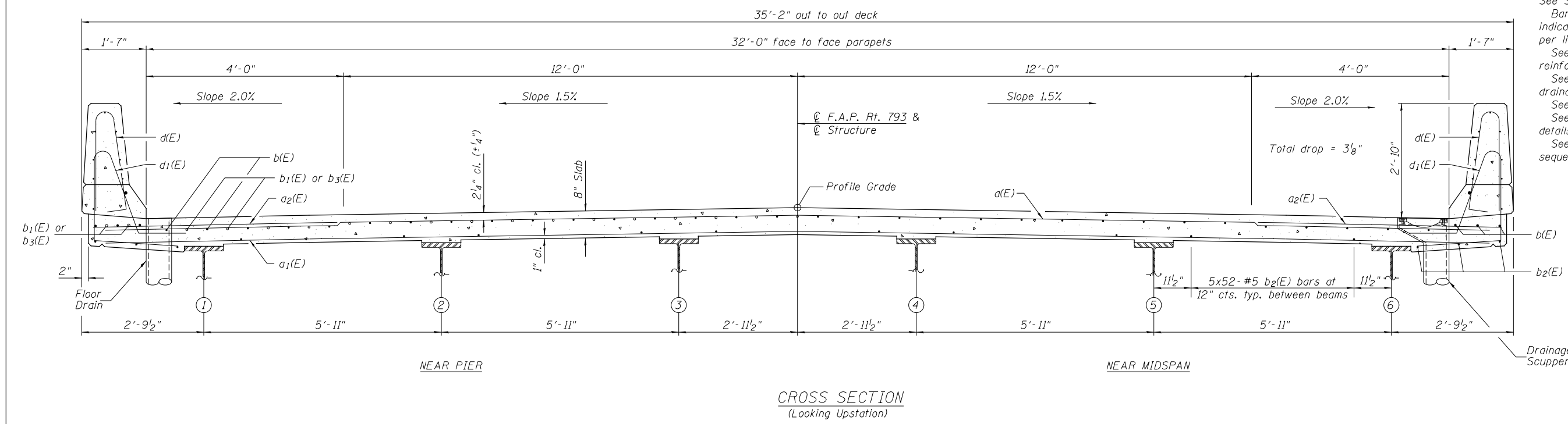


EAST APPROACH

PLAN



HALF PLAN

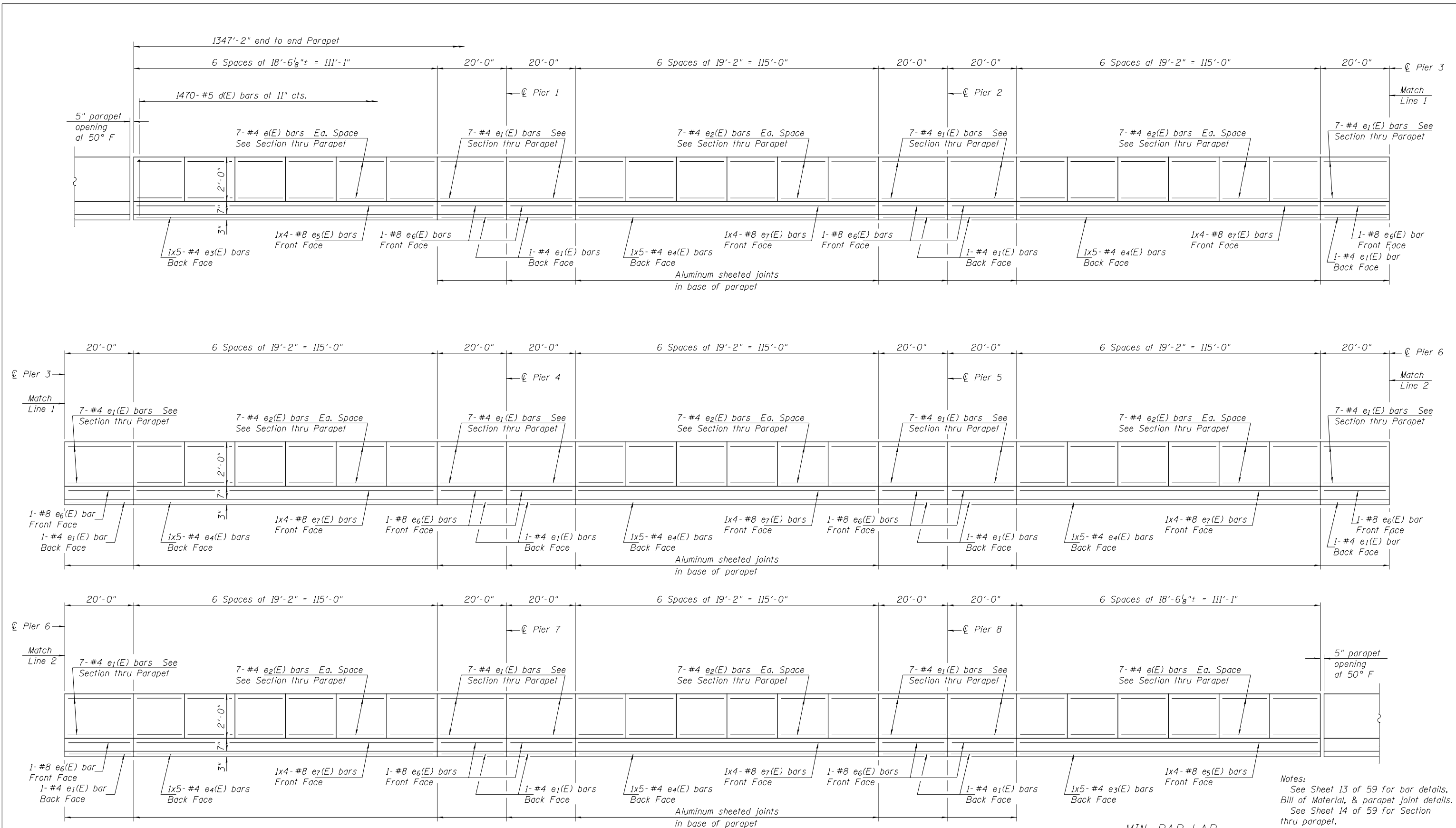


CROSS SECTION
(Looking Upstation)

Notes:
 See Sheet 12-14 of 59 for superstructure details.
 See Sheet 13 of 59 for Section A-A.
 See Sheet 13 of 59 for Bill of Material.
 Bars indicated thus 20 x 3-#5 etc. indicates 20 lines of bars with 3 lengths per line.
 See Sheet 12 of 59 for parapet reinforcement.
 See Sheet 1 & 2 of 59 for floor drain and drainage scupper locations.
 See Sheet 14 of 59 for floor drain details.
 See Sheet 17 of 59 for drainage scupper details.
 See Sheet 14 of 59 for deck pouring sequence.

MIN. BAR LAP
 (Deck)
 #5 bar (Top) = 3'-0"
 #5 bar (Bott.) = 3'-6"
 #6 bar (Top) = 3'-7"

Hutchison Engineering, Inc. Jacksonville, Peoria & Shorewood, Illinois	USER NAME =	DESIGNED - BAN	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	SUPERSTRUCTURE STRUCTURE NO. 003-0062	F.A.P. RTE. 793	SECTION (40,112)BR-1	COUNTY BOND	TOTAL SHEETS 95	SHEET NO. 37
	PLOT SCALE = NONE	CHECKED - JOH	REVISED -			CONTRACT NO. 76967				
	PLOT DATE = 1/10/2017	DRAWN - TAC	REVISED -			ILLINOIS FED. AID PROJECT				
		CHECKED - BAN	REVISED -							

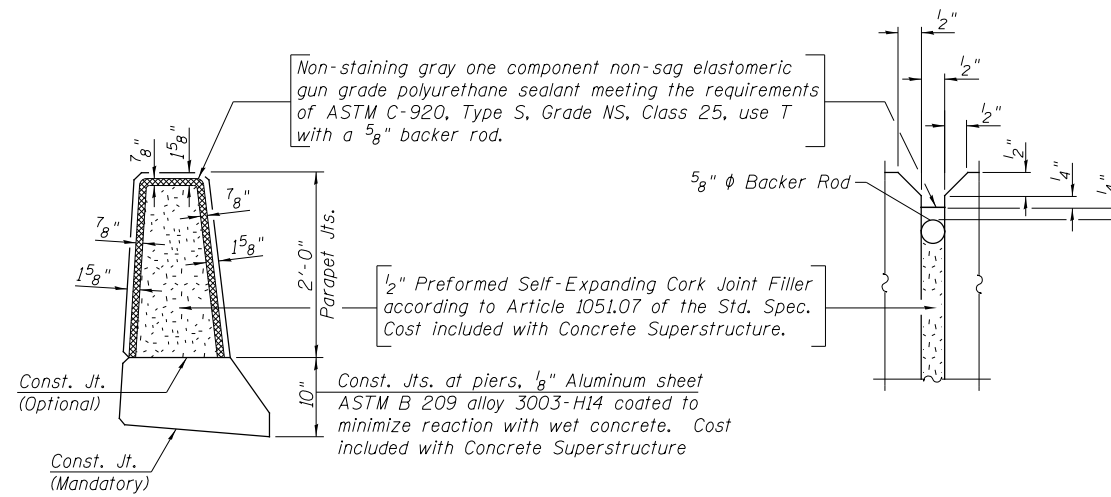


INSIDE ELEVATION OF PARAPET

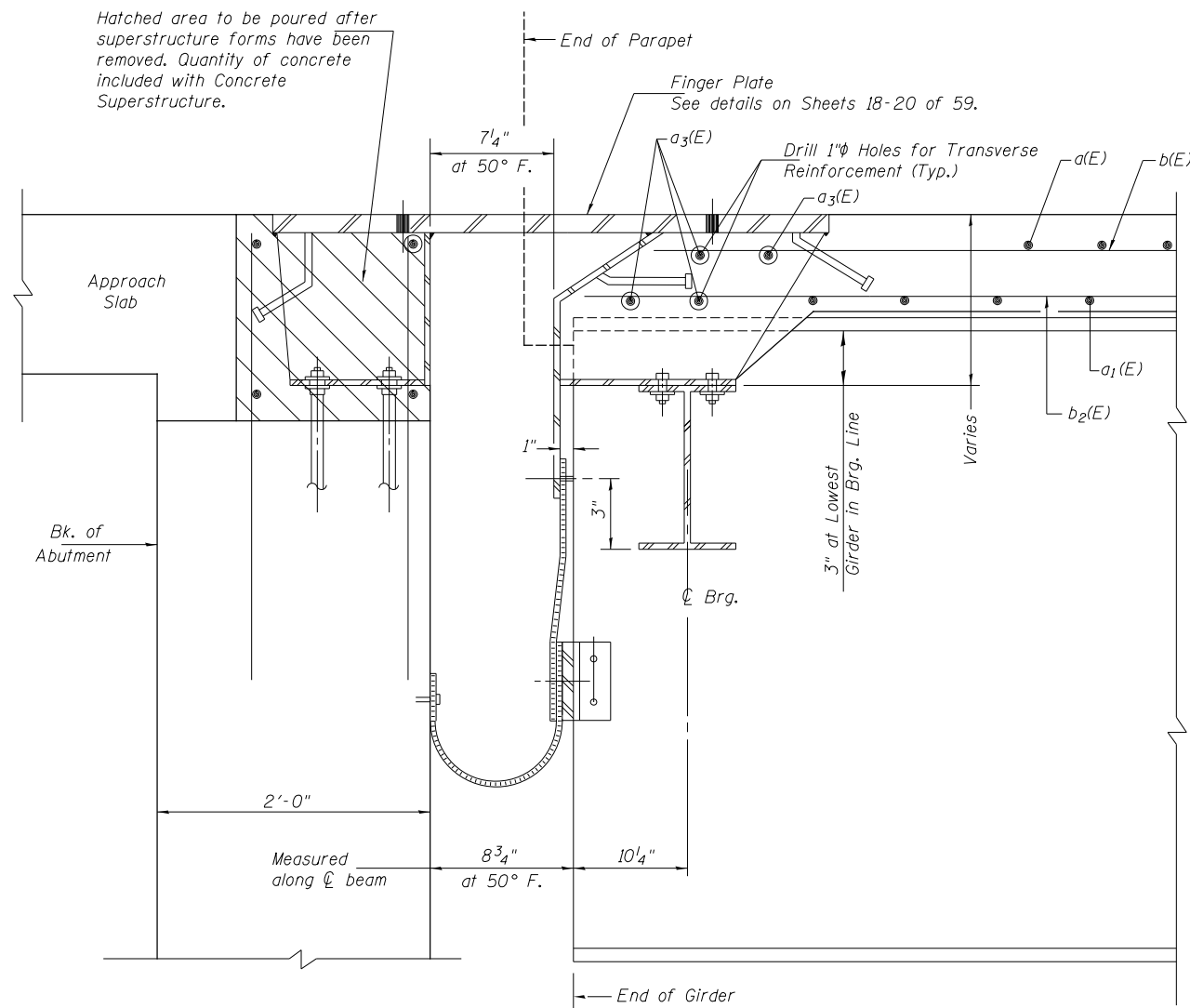
MIN. BAR LAP
(Parapet)
#4 bar = 2'-8"
#8 bar = 5'-11"

Notes:
See Sheet 13 of 59 for bar details,
Bill of Material, & parapet joint details.
See Sheet 14 of 59 for Section
thru parapet.
Bars indicated thus 1X4- #4 etc.,
indicates 1 line of bars with 4 lengths
per line.

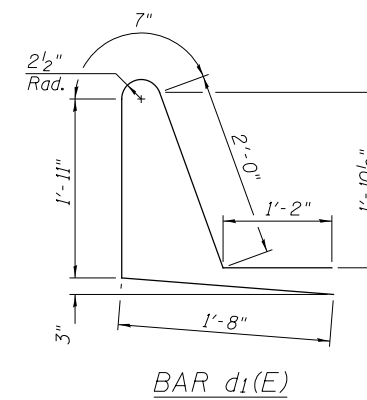
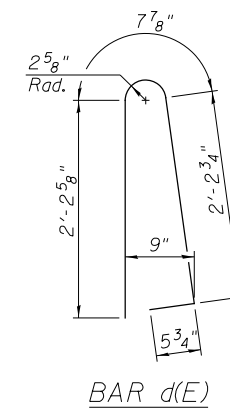
Hutchison Engineering, Inc. Jacksonville, Peoria & Shorewood, Illinois	USER NAME =	DESIGNED - BAN	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	SUPERSTRUCTURE DETAILS STRUCTURE NO. 003-0062	F.A.P. RT.E.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	PLOT SCALE = NONE	CHECKED - JOH	REVISED -			793	(40,112)BR-1	BOND	95	38
	PLOT DATE = 1/10/2017	DRAWN - TAC	REVISED -			CONTRACT NO. 76967				
	CHECKED - BAN	REVISED -	ILLINOIS FED. AID PROJECT							



PARAPET JOINT DETAILS



SECTION A-A



SUPERSTRUCTURE BILL OF MATERIAL

Bar	No.	Size	Length	Shape
a(E)	2303	#5	34'-7"	—
a1(E)	1613	#5	33'-7"	—
a2(E)	4614	#6	6'-6"	—
a3(E)	16	#5	18'-10"	—
a4(E)	288	#5	1'-6"	—
b(E)	1824	#5	31'-0"	—
b1(E)	210	#6	32'-1"	—
b2(E)	1612	#5	29'-4"	—
b3(E)	630	#6	30'-9"	—
d(E)	2940	#5	5'-7"	⏏
d1(E)	2940	#5	7'-4"	⏏
e(E)	168	#4	18'-3"	—
e1(E)	256	#4	19'-9"	—
e2(E)	588	#4	18'-11"	—
e3(E)	20	#4	24'-4"	—
e4(E)	70	#4	25'-1"	—
e5(E)	16	#8	32'-2"	—
e6(E)	32	#8	19'-9"	—
e7(E)	56	#8	33'-2"	—
Reinforcement Bars, Epoxy Coated			Pound	394,880
Concrete Superstructure			Cu. Yds.	1,542.7

Hutchison Engineering, Inc.
Jacksonville, Peoria & Shorewood, Illinois

USER NAME =	DESIGNED - BAN	REVISED -
PLOT SCALE = NONE	CHECKED - JOH	REVISED -
PLOT DATE = 1/10/2017	DRAWN - TAC	REVISED -
	CHECKED - BAN	REVISED -

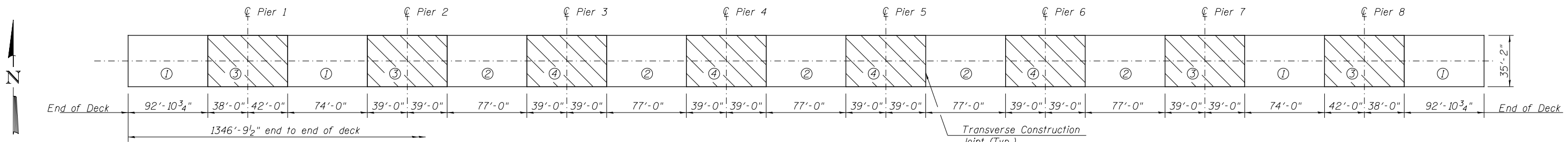
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

SUPERSTRUCTURE DETAILS
STRUCTURE NO. 003-0062

SHEET NO. 13 OF 59 SHEETS

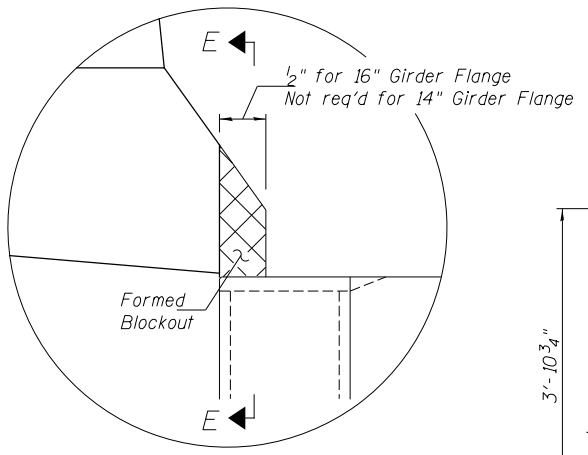
F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
793	(40,112)BR-1	BOND	95	39
			CONTRACT NO.	76967

ILLINOIS FED. AID PROJECT

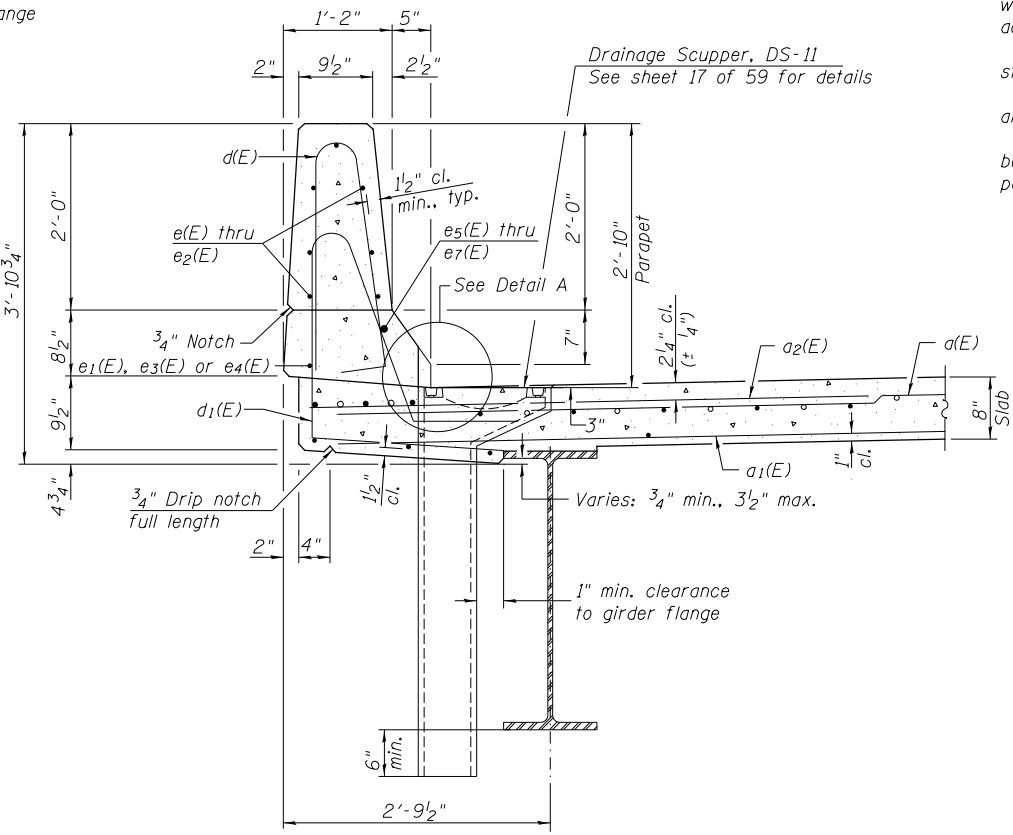


DECK POURING SEQUENCE

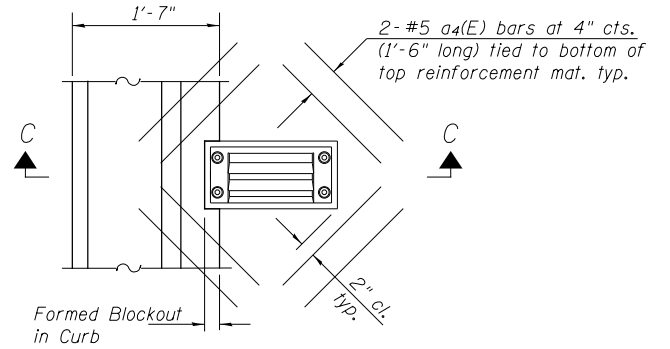
Notes:
 Drains & Scuppers shall be located clear of all cross frames.
 The exterior surfaces of the floor drains shall be painted according to Article 506 with the finish coat as specified. The exterior surfaces of the drains shall be cleaned according to the Society of Protective Coating's Spec. SSPC-SPI prior to painting.
 Fiberglass pipe shall conform to ASTM D 2996, with short-time rupture strength hoop tensile stress of 30,000 p.s.i. minimum.
 Galvanize clamping device according to AASHTO M232. Cost of clamping device and inserts is included with Floor Drains.
 When the deck pour is stopped for the day at one or more of the transverse bonded construction joints in the deck pouring sequence as shown, the next pour shall not be made until both of the following are met:
 1) At least 72 hours shall have elapsed from the end of the previous pour.
 2) The concrete strength shall have attained a minimum flexural strength of 650 psi or a minimum compressive strength of 3500 psi.



DETAIL B

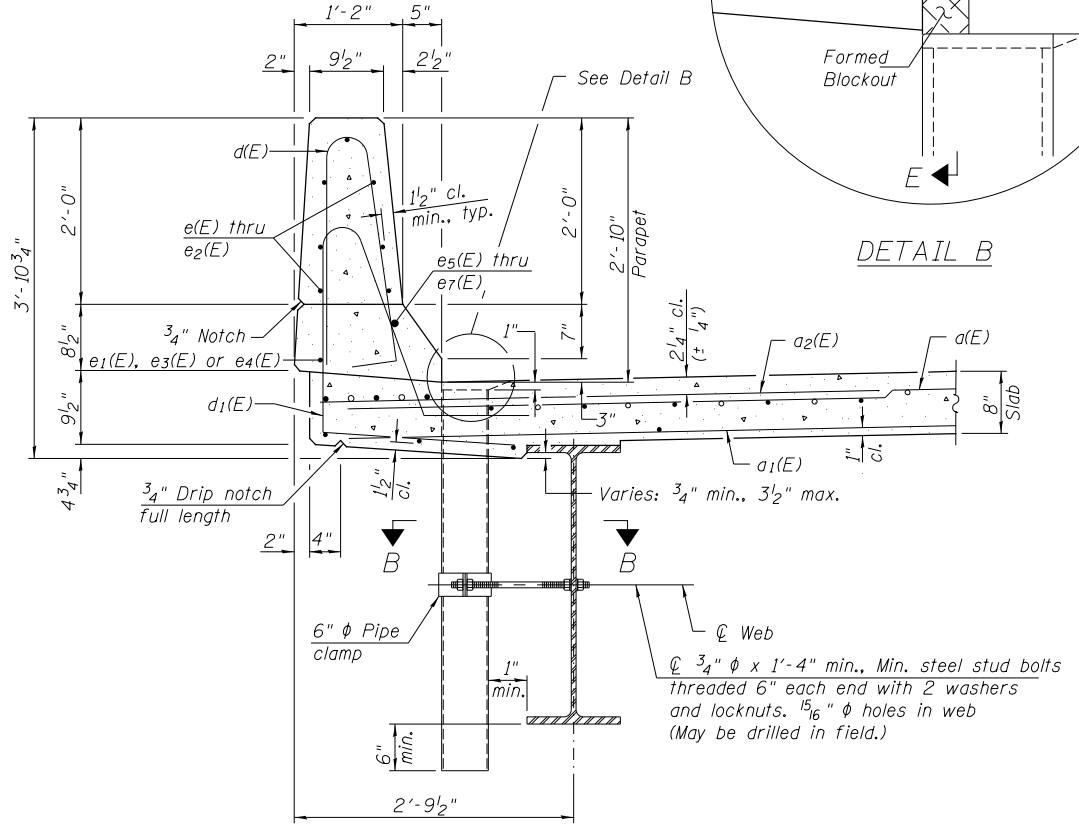


SECTION C-C THRU PARAPET SHOWING SCUPPER INSTALLATION

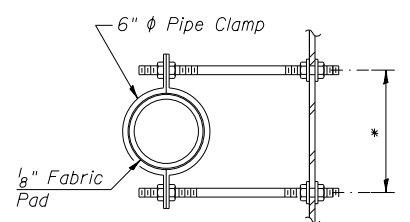


PLAN - REINFORCEMENT TREATMENT AT SCUPPERS

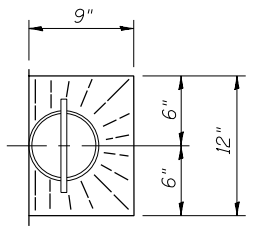
Note:
 Cut longitudinal reinforcement to clear drainage scuppers.



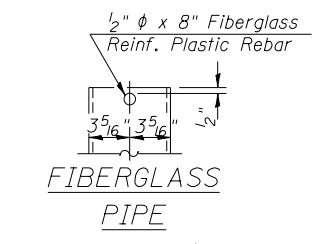
SECTION THRU PARAPET



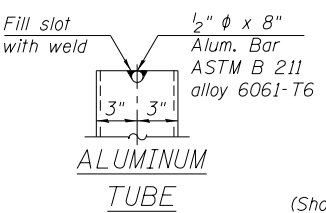
SECTION B-B
 *Dimension as required by Pipe Clamp



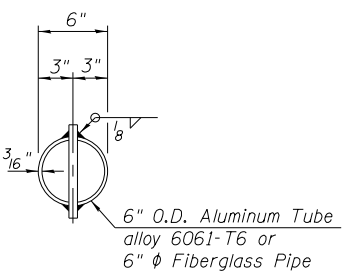
TOP PLAN



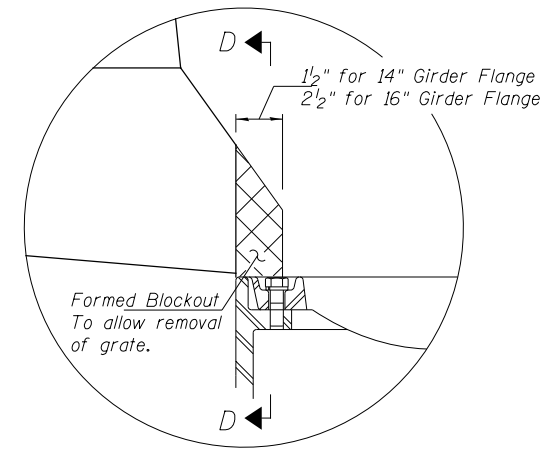
FIBERGLASS PIPE



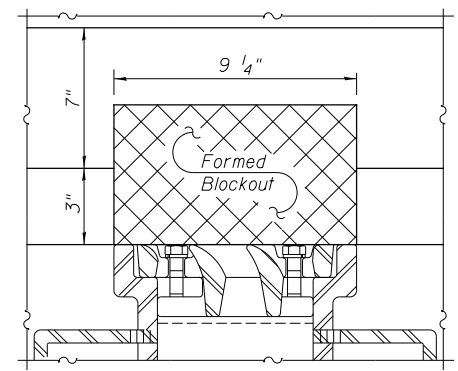
ALUMINUM TUBE



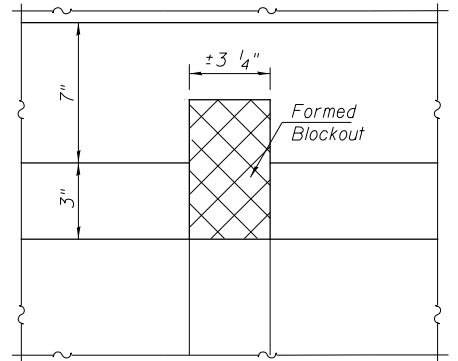
TOP PLAN (Showing Aluminum Tube)



DETAIL A



SECTION D-D



SECTION E-E

Hutchison Engineering, Inc.
 Jacksonville, Peoria & Shorewood, Illinois

USER NAME =	DESIGNED - BAN	REVISED -
PLOT SCALE = NONE	CHECKED - JOH	REVISED -
PLOT DATE = 1/10/2017	DRAWN - TAC	REVISED -
	CHECKED - BAN	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

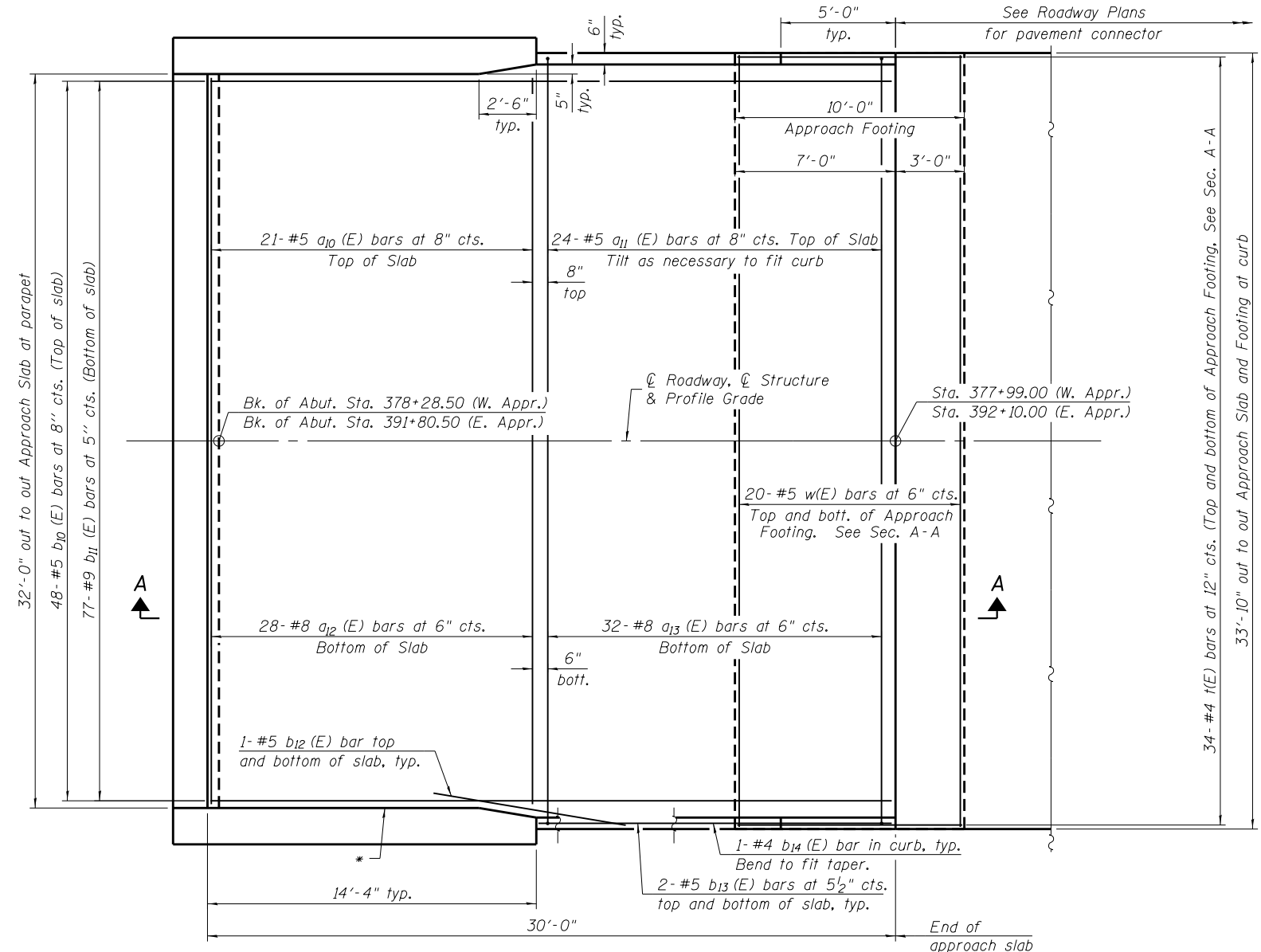
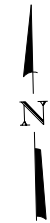
SUPERSTRUCTURE DETAILS
STRUCTURE NO. 003-0062

SHEET NO. 14 OF 59 SHEETS

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
793	(40,112)BR-1	BOND	95	40
CONTRACT NO.			76967	

ILLINOIS FED. AID PROJECT

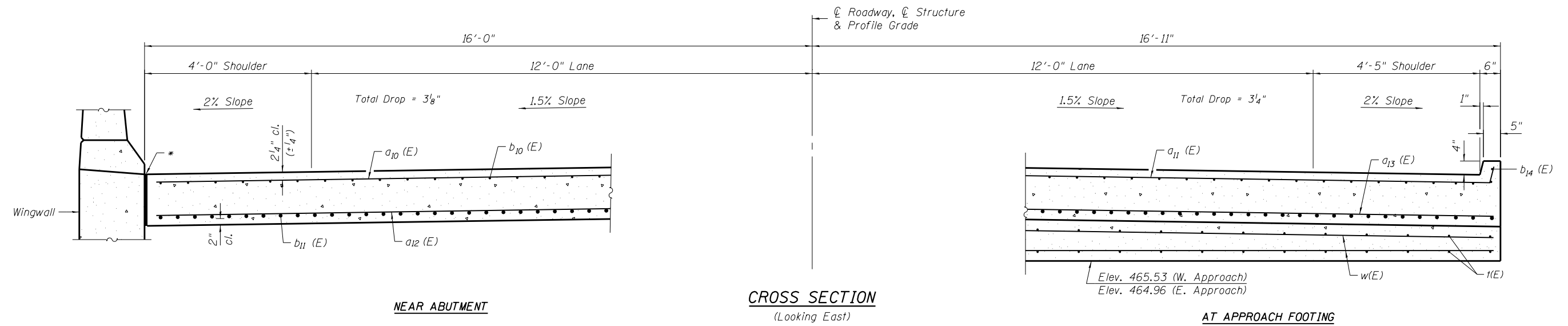
PRINT DATE: 1/9/2017 10:40:01 AM Y:\1602100 IL 143 over ShoalCreek Phase I\INDGN\Bridges\0030062-76967-08-Approach_Slab.dgn



PLAN

(East approach shown, west approach similar)

* 1/2" Preformed Expansion Joint Filler according to Article 1051.09 of the Standard Specifications; full depth of slab, full length of parapet. Typ. each parapet.



CROSS SECTION

(Looking East)

AT APPROACH FOOTING

BASA-CIP-FS-0 07-22-16

(Sheet 1 of 2)

EFK Moen, LLC
Civil Engineering Design
303 Fountains Parkway, Suite 240
Fairview Heights, IL 62208
Phone 618-206-4250

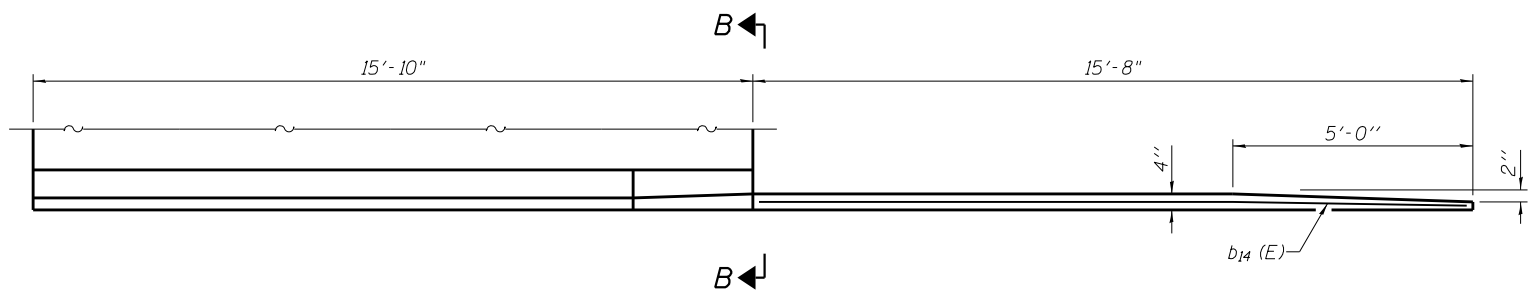
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PLOT SCALE = 0.2" = 1'-0"	CHECKED - JSR	REVISED -
PLOT DATE = 1/9/2017	DRAWN - JAA	REVISED -
	DATE - 1/9/2017	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

BRIDGE APPROACH SLAB DETAILS
STRUCTURE NO. 003-0062

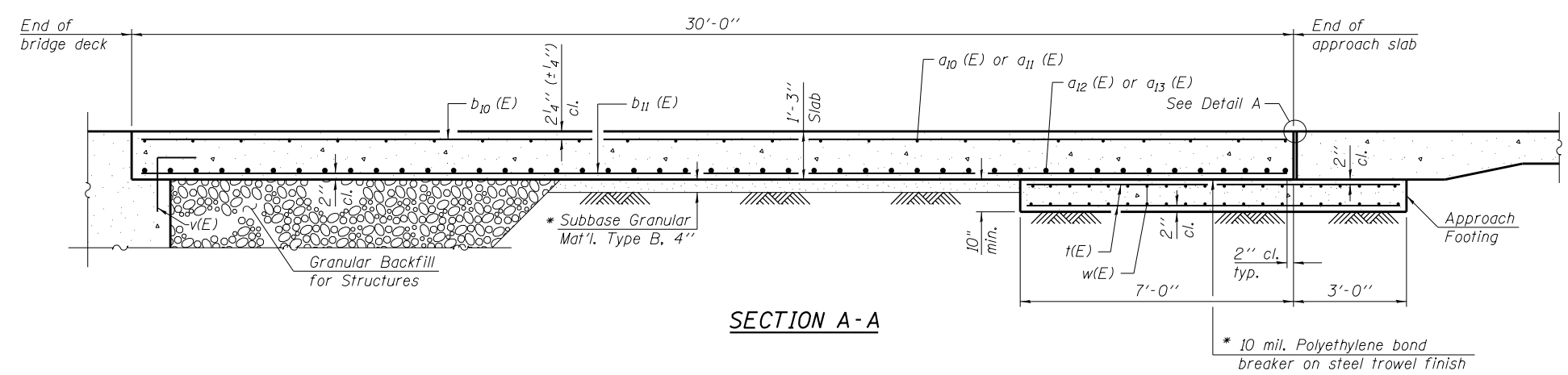
SHEET NO. 15 OF 59 SHEETS

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
793	(40,112) BR-1	BOND	95	41
CONTRACT NO. 76967				
ILLINOIS FED. AID PROJECT				

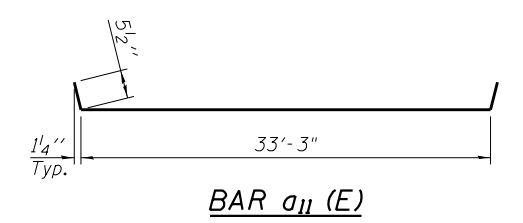


INSIDE ELEVATION OF PARAPET AND CURB

Notes:
 Approach slab shall be paid for as Concrete Superstructure (Approach Slab).
 Approach footing concrete shall be paid for as Concrete Structures.
 The approach footing maximum applied service bearing pressure (Qmax) = 2.0 ksf.
 For v(E) bar details, see sheet 30 of 59.
 Cost of excavation for approach footing included with Concrete Structures.
 For Granular Backfill for Structures and drainage treatment details, see sheet 3 of 59.

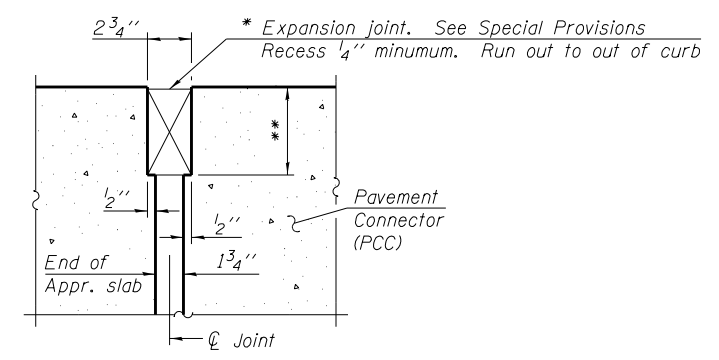


SECTION A-A



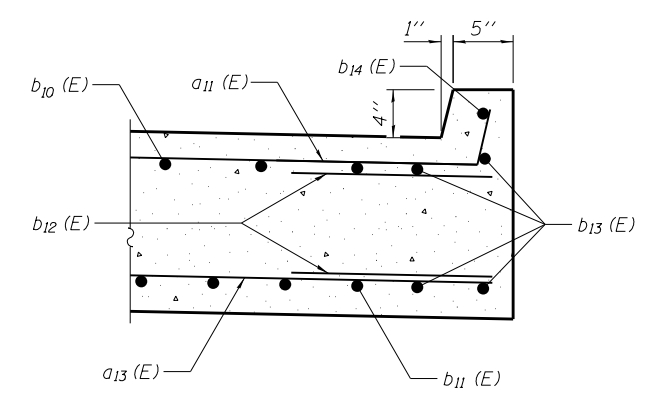
**TWO APPROACHES
BILL OF MATERIAL**

Bar	No.	Size	Length	Shape
a10 (E)	42	#5	31'-8"	—
a11 (E)	48	#5	34'-2"	—
a12 (E)	56	#8	31'-8"	—
a13 (E)	64	#8	33'-6"	—
b10 (E)	96	#5	29'-8"	—
b11 (E)	154	#9	29'-8"	—
b12 (E)	8	#5	8'-6"	—
b13 (E)	16	#5	15'-4"	—
b14 (E)	4	#4	15'-4"	—
t(E)	136	#4	9'-8"	—
w(E)	80	#5	33'-6"	—
Concrete Structures			Cu. Yd.	24.2
Concrete Superstructure (Approach Slab)			Cu. Yd.	92.1
Reinforcement Bars, Epoxy Coated			Pound	36,100



DETAIL A

(Detail A shown, applies to Highway Standard 420401 only.
 Detail A for pavement connector (HMA) may be found on Highway Standard 420406.)



SECTION B-B

* Cost included with Concrete Superstructure (Approach Slab).
 ** Per manufacturer recommendations

BASA-CIP-FS-0 07-22-16

(Sheet 2 of 2)

EFK Moen, LLC
 Civil Engineering Design
 303 Fountains Parkway, Suite 240
 Fairview Heights, IL 62208
 Phone 618-206-4250

USER NAME = jsr	DESIGNED - CDL	REVISED -
PLOT SCALE = 0.2" = 1' / in.	CHECKED - JSR	REVISED -
PLOT DATE = 1/9/2017	DRAWN - JAA	REVISED -
	DATE - 1/9/2017	REVISED -

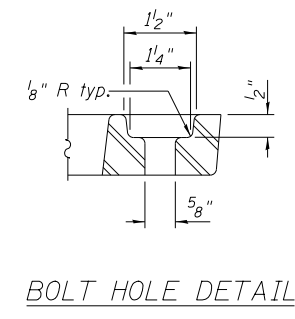
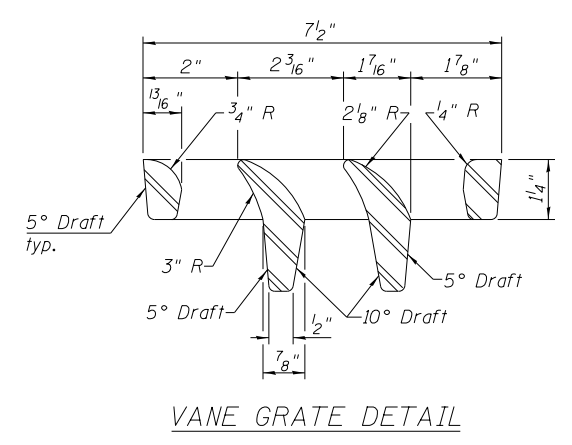
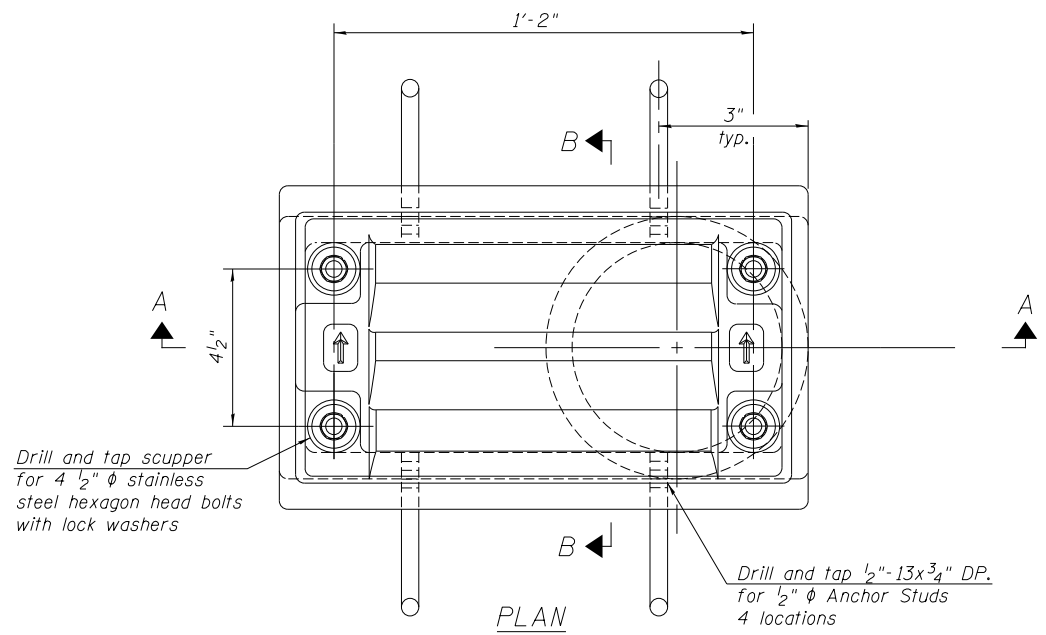
**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**BRIDGE APPROACH SLAB DETAILS
STRUCTURE NO. 003-0062**

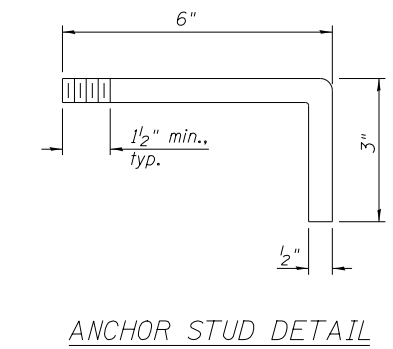
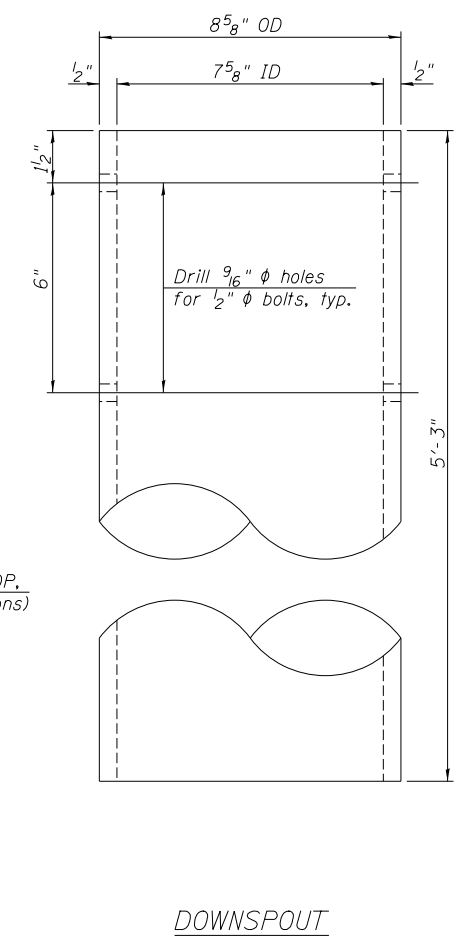
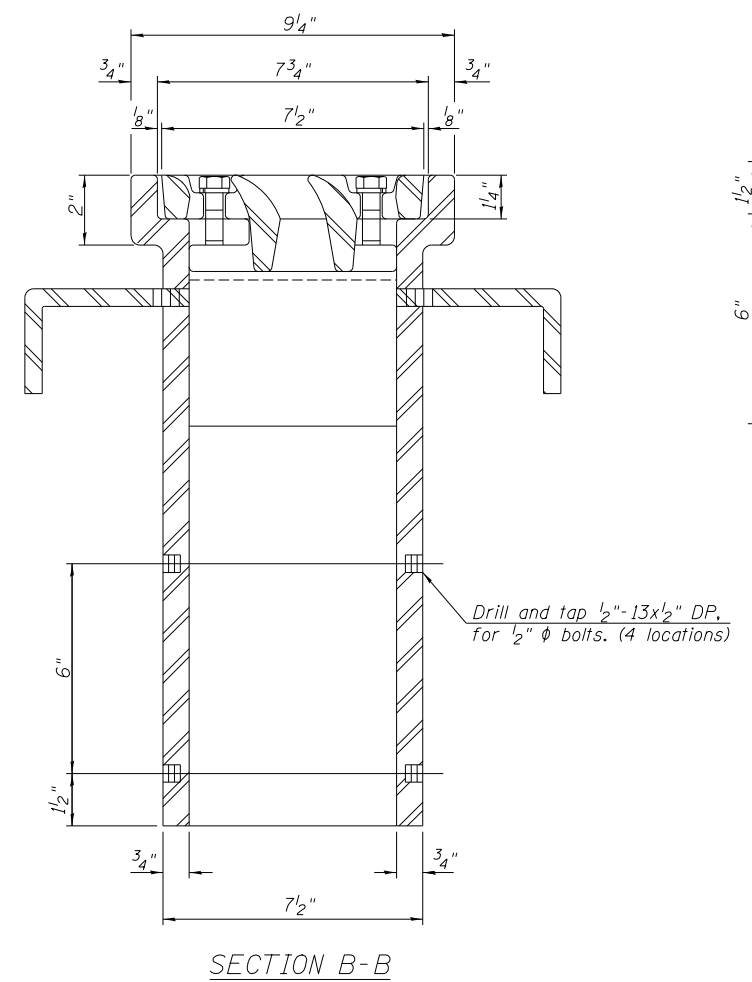
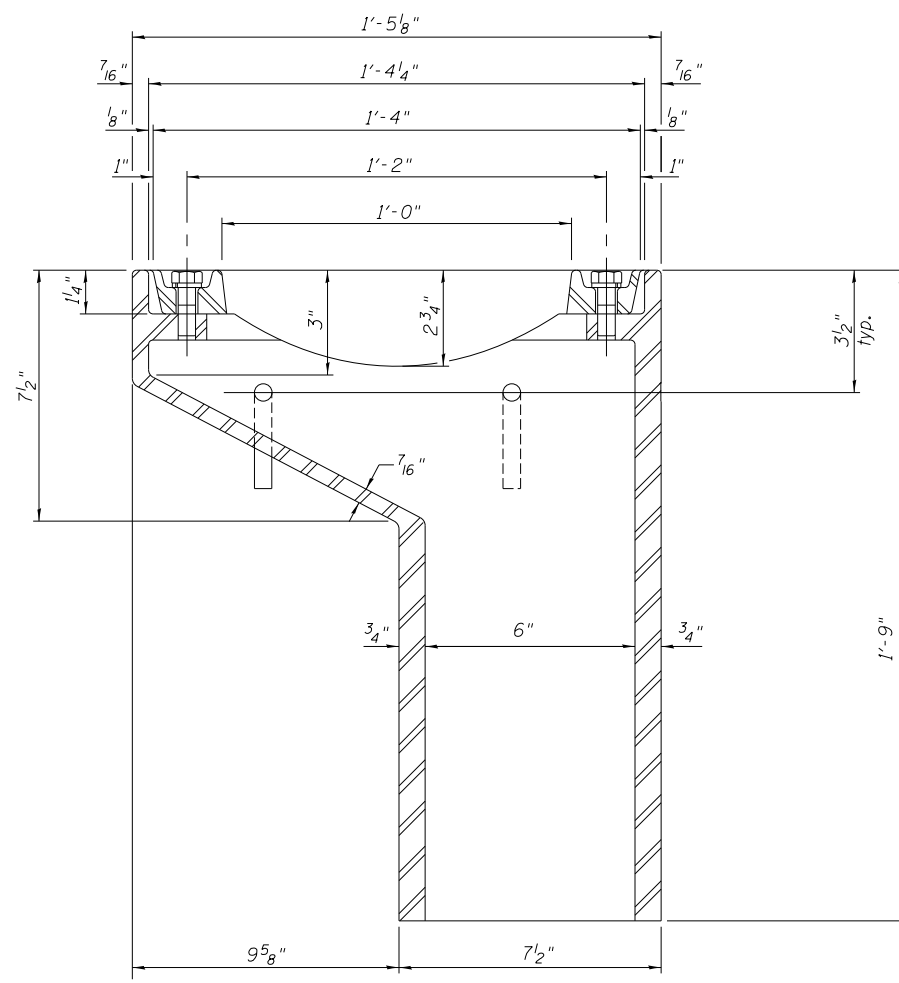
SHEET NO. 16 OF 59 SHEETS

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
793	(40,112) BR-1	BOND	95	42
CONTRACT NO. 76967				
ILLINOIS FED. AID PROJECT				

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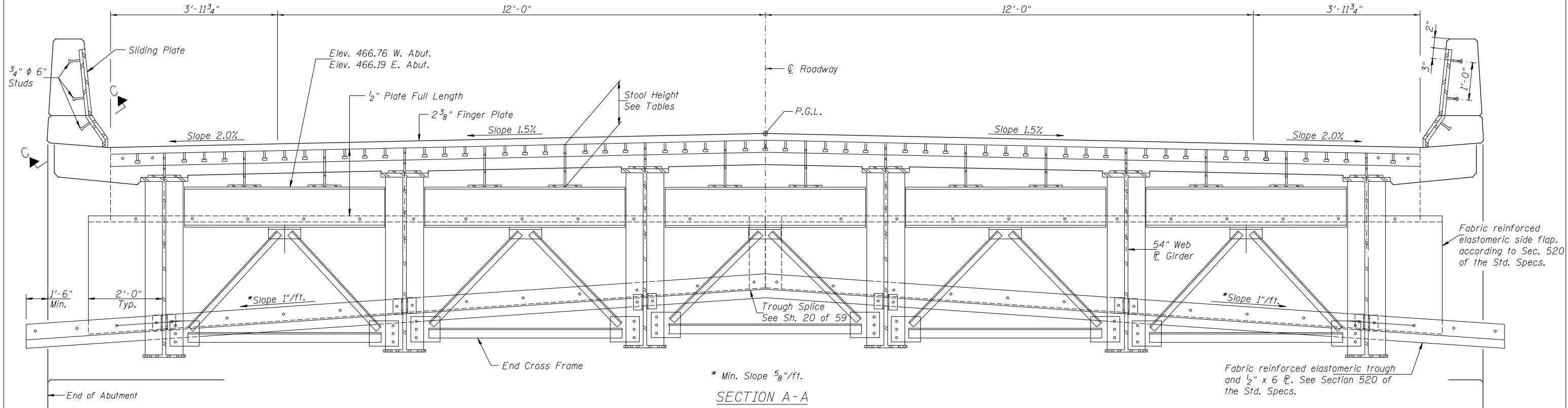
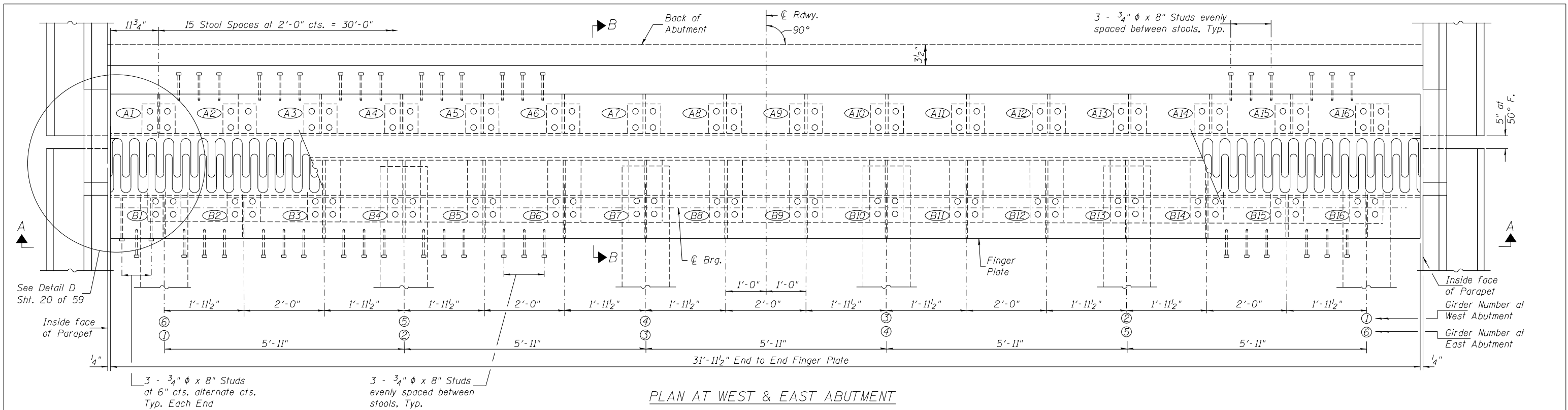


Notes:
 All cast iron parts shall be gray iron conforming to the requirements of AASHTO M 105, Class 35B.
 Bolts, anchor studs, washers and nuts shall conform to the requirements of ASTM A 307 and shall be galvanized according to AASHTO M 232.
 Downspouts located on the exterior side of a painted steel fascia beam shall be painted with the finish coat specified for the exterior side of the fascia beam.
 As an alternate, bolts, anchor studs, washers and nuts may be stainless steel according to Article 1006.29(d) of the Standard Specifications.
 Structural steel weldments of equal sections and of the same configuration may be substituted for the cast iron scupper frame. Fillet or full penetration welds shall be used for the weldments. Details shall be submitted to the Engineer for approval. Structural steel weldments shall not be substituted for the cast iron scupper grate. Structural steel frames and downspouts shall be galvanized according to AASHTO M111.
 The Contractor shall take appropriate measures to assure that Protective Coat is not applied to the scupper.
 Cost of the Grate, Frame, Downspout, Anchor Studs, Bolts, Washers and Nuts including complete installation of the scupper shall be paid for at the contract unit price each for Drainage Scupper, DS-11.
 Alternate fiberglass downspout conforming to ASTM D 2996 with a short-time rupture strength hoop tensile stress of 30,000 psi min. may be used in lieu of the cast iron or steel equivalent.



BILL OF MATERIAL

ITEM	UNIT	QUANTITY
Drainage Scuppers, DS-11	Each	36



**** STOOL HEIGHTS AT WEST ABUTMENT**

Stool Mark	A1	A2	A3	A4	A5	A6	A7	A8	A9	A10	A11	A12	A13	A14	A15	A16
Stool Height	9 1/2"	10"	10 3/8"	10 7/8"	11 1/8"	11 1/2"	11 7/8"	12 1/8"	12 1/2"	11 7/8"	11 1/2"	11 1/8"	10 7/8"	10 3/8"	10"	9 1/2"
Stool Mark	B1	B2	B3	B4	B5	B6	B7	B8	B9	B10	B11	B12	B13	B14	B15	B16
Stool Height	6 1/8"	10 3/8"	10 3/4"	6 1/8"	11 1/2"	11 7/8"	6 1/8"	12 1/2"	12 1/2"	6 1/8"	11 7/8"	11 1/2"	6 1/8"	10 3/4"	10 3/8"	6 1/8"

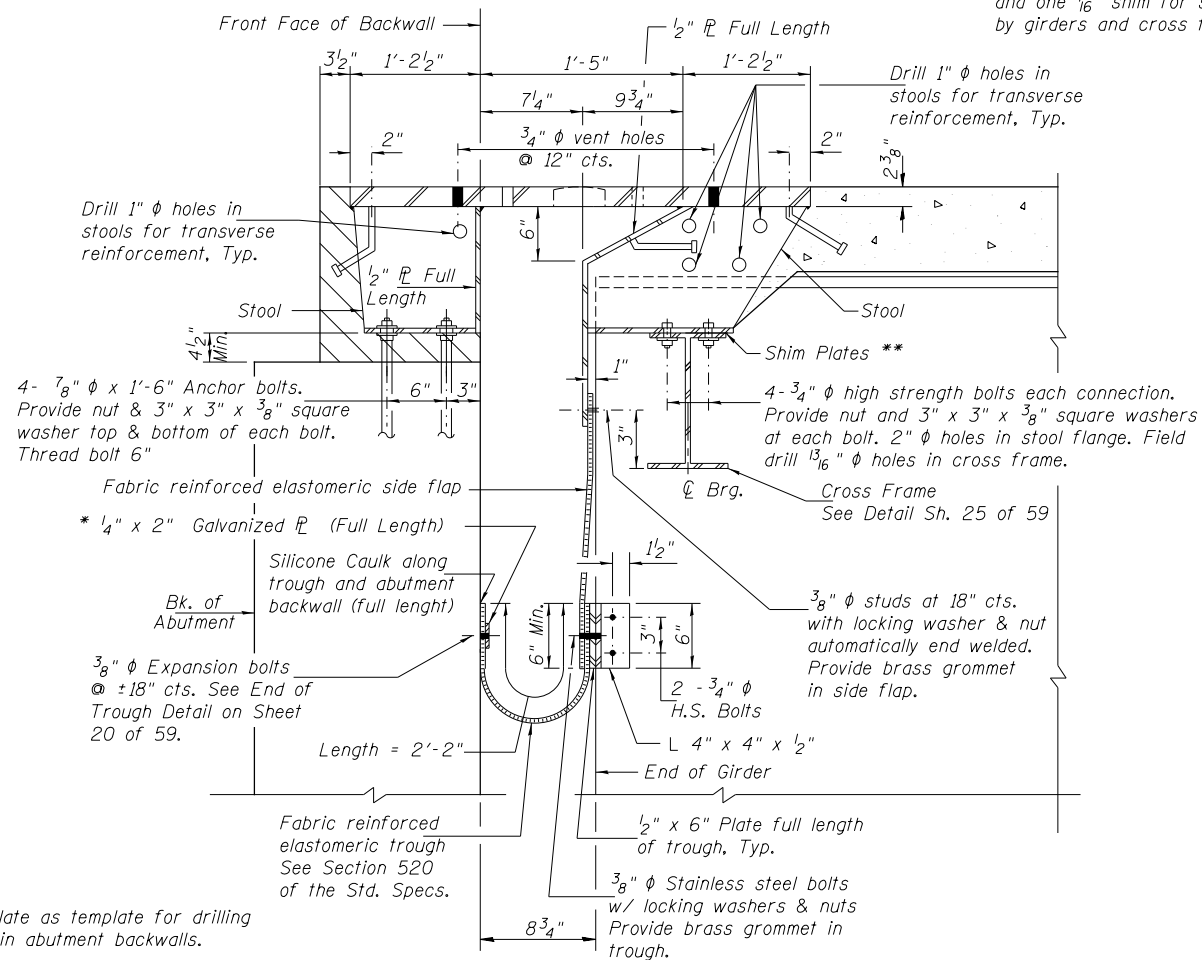
**** STOOL HEIGHTS AT EAST ABUTMENT**

Stool Mark	A1	A2	A3	A4	A5	A6	A7	A8	A9	A10	A11	A12	A13	A14	A15	A16
Stool Height	9 1/2"	10"	10 3/8"	10 7/8"	11 1/8"	11 1/2"	11 7/8"	12 1/8"	12 1/2"	11 7/8"	11 1/2"	11 1/8"	10 7/8"	10 3/8"	10"	9 1/2"
Stool Mark	B1	B2	B3	B4	B5	B6	B7	B8	B9	B10	B11	B12	B13	B14	B15	B16
Stool Height	6 1/8"	10 3/8"	10 3/4"	6 1/8"	11 1/2"	11 7/8"	6 1/8"	12 1/2"	12 1/2"	6 1/8"	11 7/8"	11 1/2"	6 1/8"	10 3/4"	10 3/8"	6 1/8"

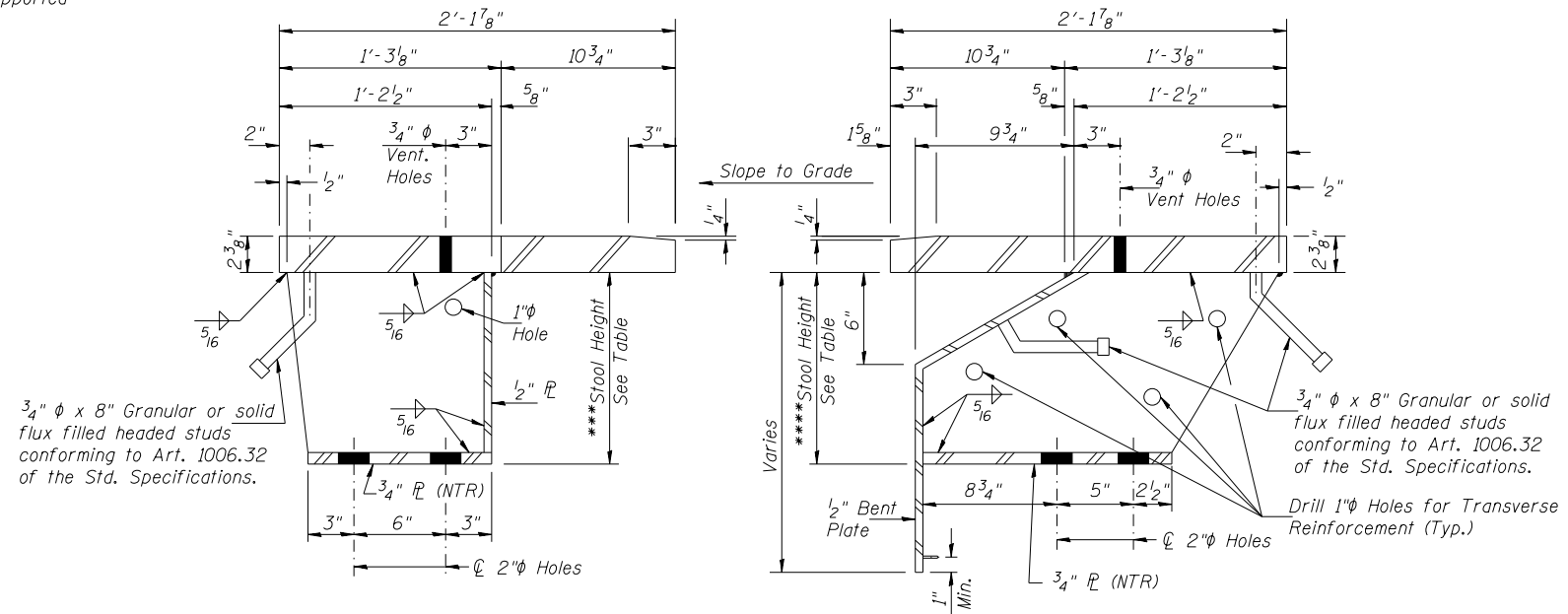
** Stool heights are figured at \bar{C} bearing and at front face of backwall.

Hutchison Engineering, Inc. Jacksonville, Peoria & Shorewood, Illinois	USER NAME =	DESIGNED - BAN	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	FINGER PLATE EXPANSION JOINT DETAILS STRUCTURE NO. 003-0062	F.A.P. RTE. 793	SECTION (40,112)BR-1	COUNTY BOND	TOTAL SHEETS 95	SHEET NO. 44
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	PLOT DATE = 1/10/2017	DRAWN - TAC	REVISED -			ILLINOIS FED. AID PROJECT				
		CHECKED - BAN	REVISED -			SHEET NO. 18 OF 59 SHEETS				

** Provide 1/4" normal shim plus one 1/8" and one 1/16" shim for stools supported by girders and cross frames.

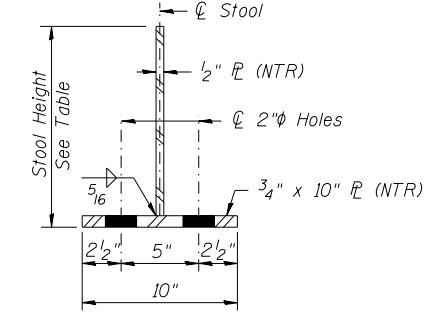


SECTION B-B
(Horizontal Dimensions @ 50° F)



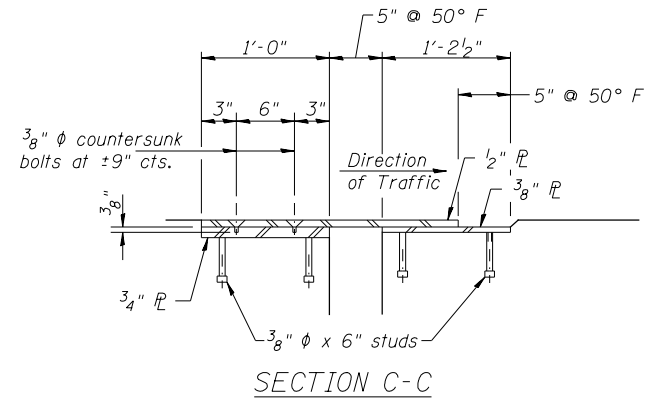
STOOL DETAILS

*** Stool Height in tables is taken at front face of Backwall
**** Stool Height in tables is taken at C Bearing

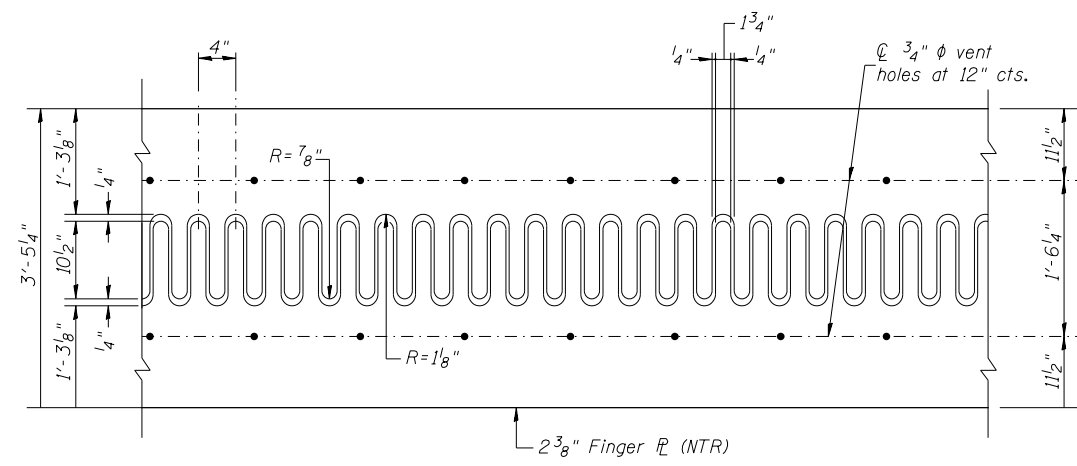


SECTION THRU STOOL

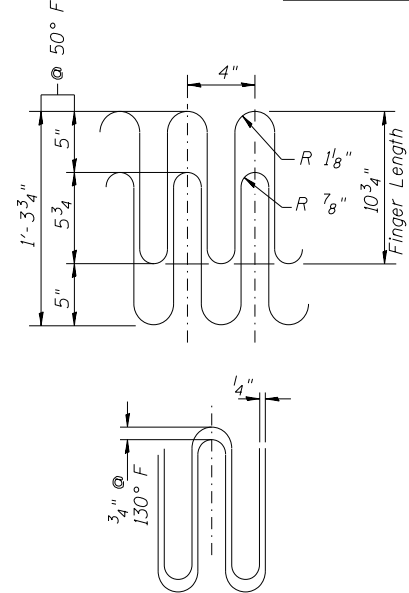
* Use plate as template for drilling holes in abutment backwalls.



SECTION C-C

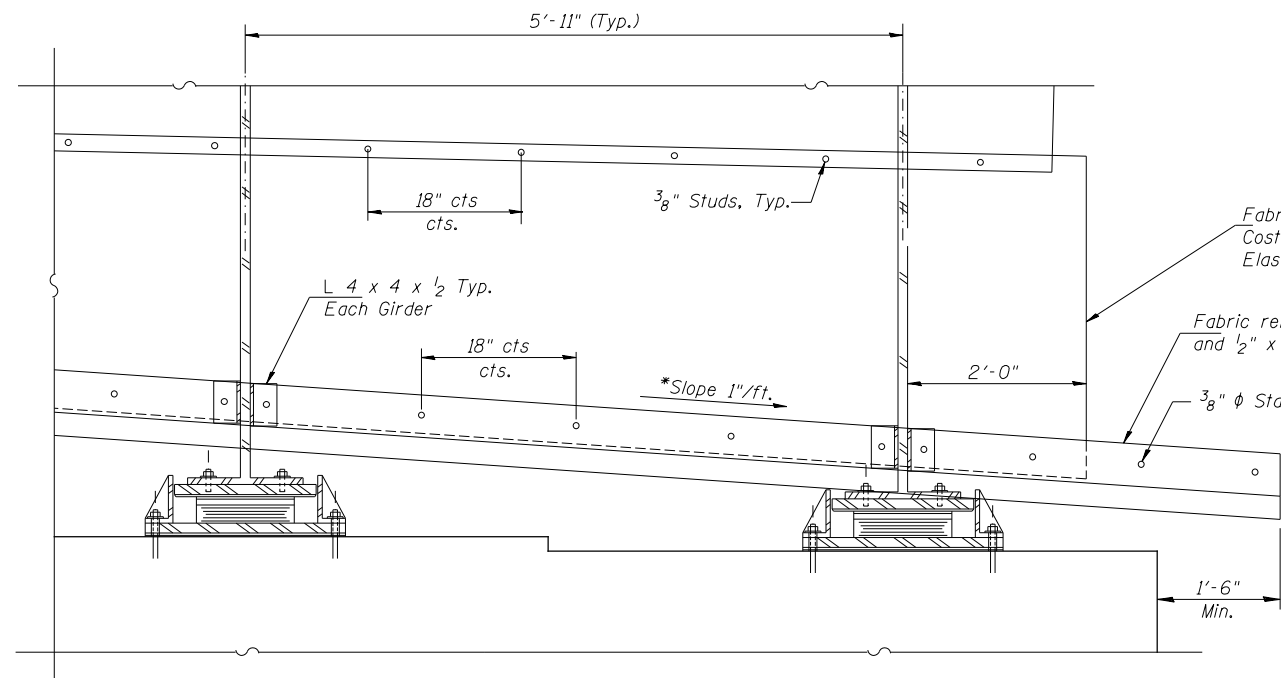


FLAME CUTTING DIAGRAM



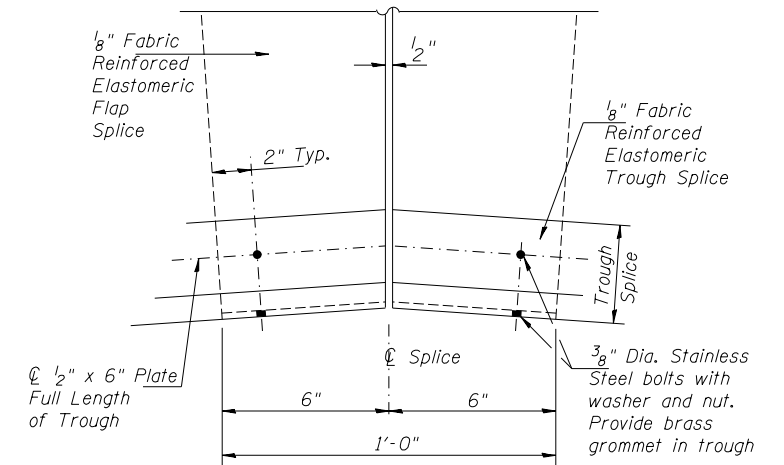
JOINT OPENING AND GEOMETRY DETAIL

Hutchison Engineering, Inc. Jacksonville, Peoria & Shorewood, Illinois	USER NAME =	DESIGNED - BAN	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	FINGER PLATE EXPANSION JOINT DETAILS STRUCTURE NO. 003-0062	F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
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	PLOT DATE = 1/10/2017	DRAWN - TAC	REVISED -			CONTRACT NO. 76967				
	CHECKED - BAN	REVISED -	ILLINOIS FED. AID PROJECT							
SHEET NO. 19 OF 59 SHEETS										

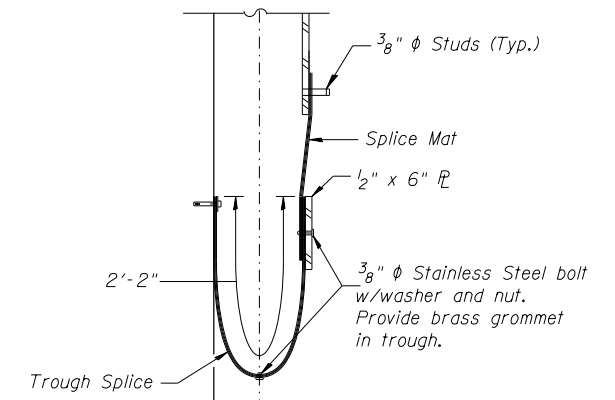


ELASTOMERIC TROUGH DETAIL

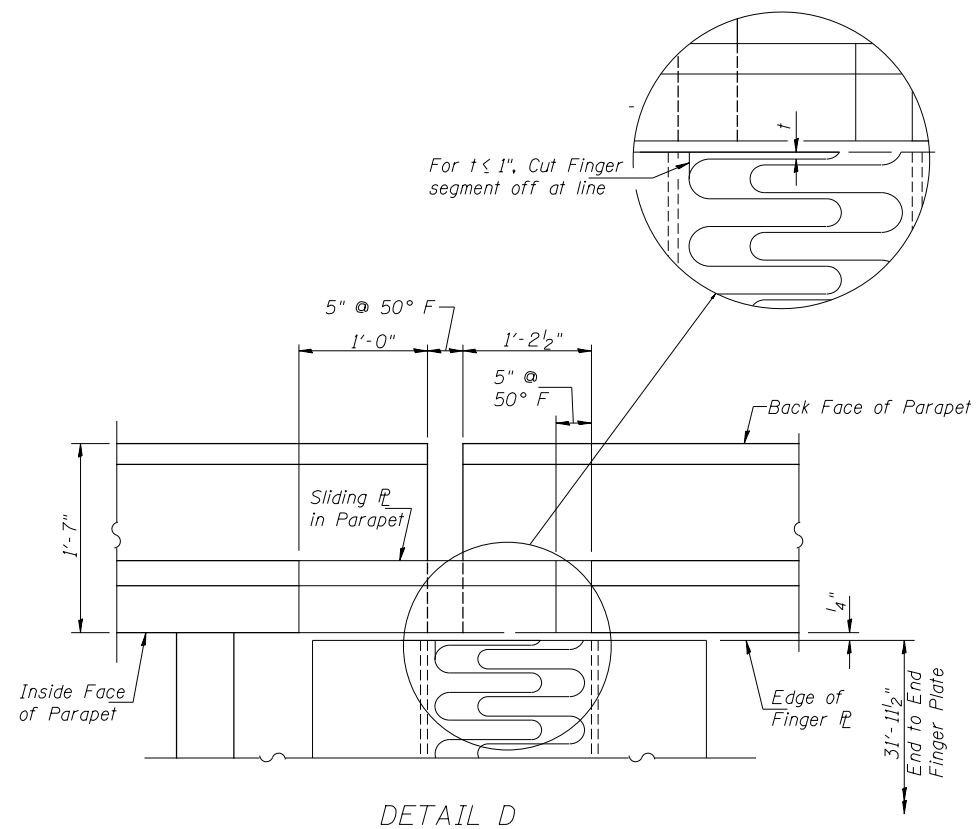
* Minimum Slope 5/8"/ft.



TROUGH SPLICE DETAIL



SECTION THRU TROUGH SPLICE



DETAIL D

NOTES

Load carrying components designated "NTR" shall conform to the Impact Testing Requirement, Zone 2.

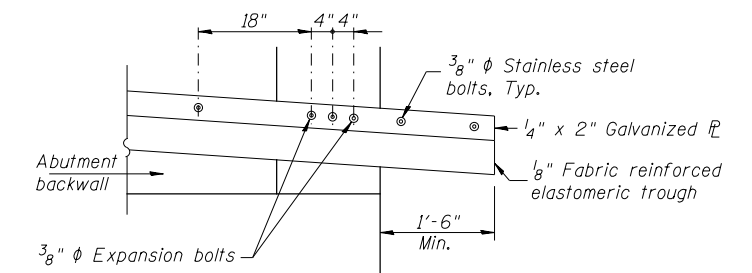
Finger plate expansion joints shall be assembled in their final relative position with the ends in place for shop inspection and acceptance.

Finger plates and attachments shall conform to the requirements of AASHTO M270, Grade 50.

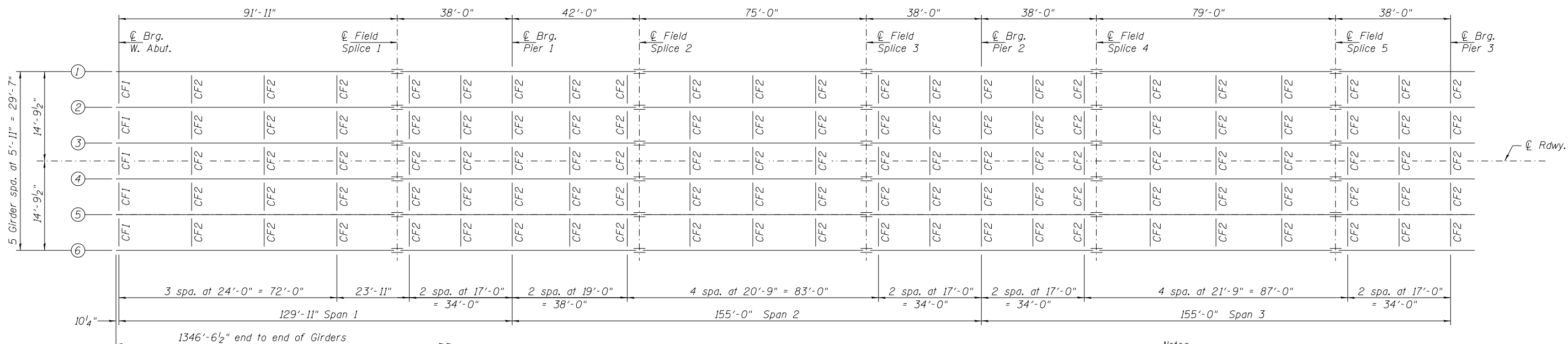
All steel components of the expansion joint including hardware associated with the trough system and sliding plates shall be galvanized after fabricating according to Section 520.03 of the Standard Specifications.

BILL OF MATERIAL

ITEM	UNIT	TOTAL
Finger Plate Expansion Joint, 6"	Foot	64
Fabric Reinforced Elastomeric Trough	Foot	77

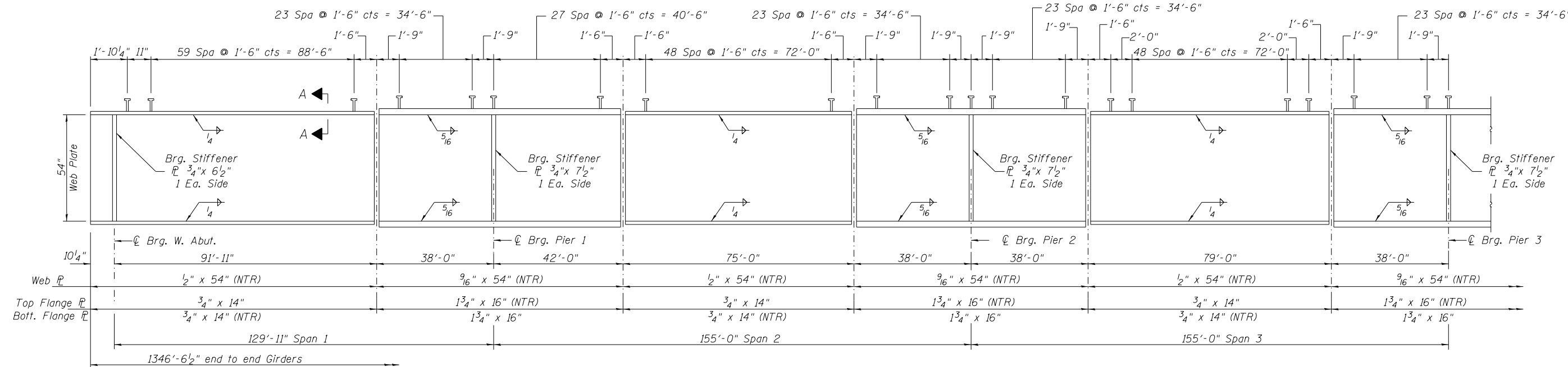


END OF TROUGH DETAIL



FRAMING PLAN SPANS 1, 2 & 3

Notes:
 Structural steel shall be AASHTO M270 Grade 50 for the girders, cross frame connection plates, bearing stiffeners and all splice plate material.
 Load carrying components designated "NTR" shall conform to the Impact Testing Requirement, Zone 2.
 See Sheet 24 of 59 for Section A-A.



GIRDER ELEVATION SPANS 1, 2 & 3

Hutchison Engineering, Inc.
 Jacksonville, Peoria & Shorewood, Illinois

USER NAME =	DESIGNED - BAN	REVISED -
PLOT SCALE = NONE	CHECKED - JOH	REVISED -
PLOT DATE = 1/10/2017	DRAWN - TAC	REVISED -
	CHECKED - BAN	REVISED -

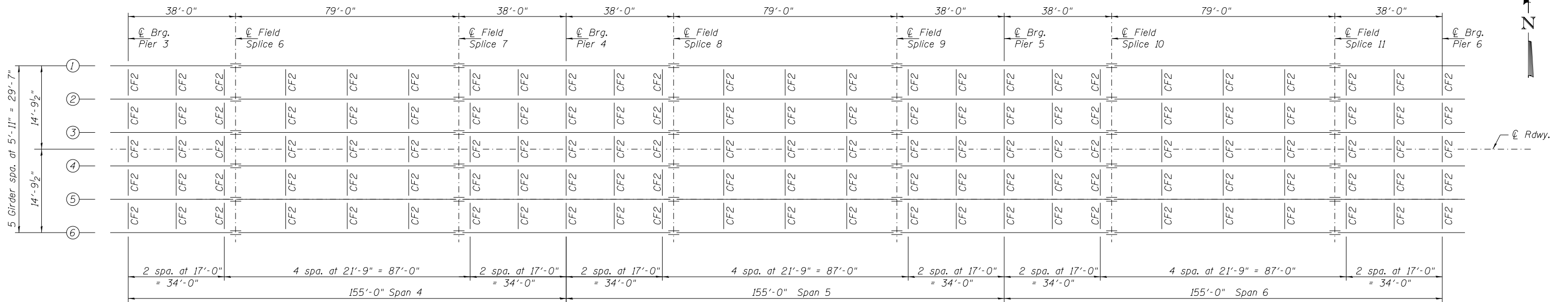
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

FRAMING PLAN - SPANS 1, 2 & 3
STRUCTURE NO. 003-0062

F.A.P. RTE. 793	SECTION (40,112)BR-1	COUNTY BOND	TOTAL SHEETS 95	SHEET NO. 47
			CONTRACT NO. 76967	

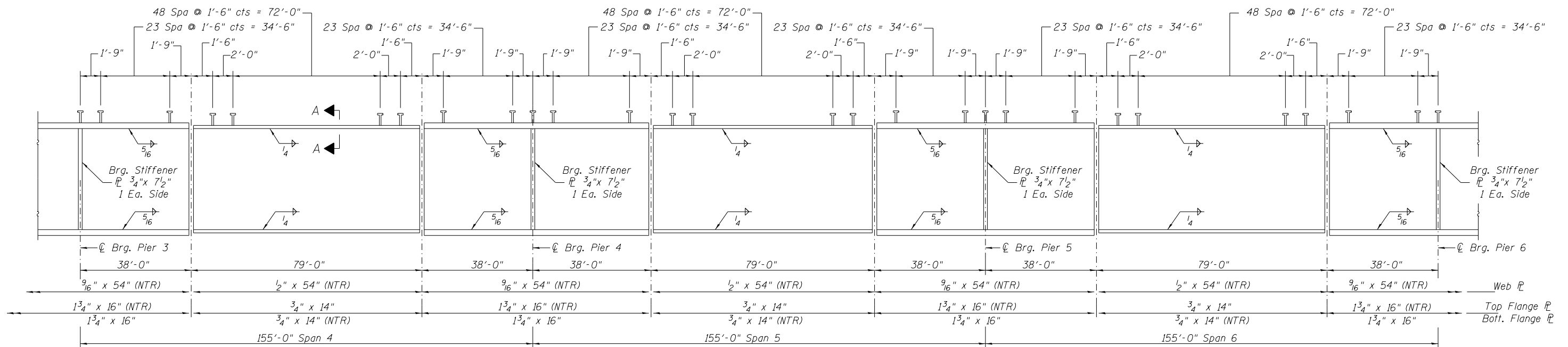
SHEET NO. 21 OF 59 SHEETS

ILLINOIS FED. AID PROJECT



FRAMING PLAN SPANS 4, 5 & 6

Notes:
 Structural steel shall be AASHTO M270 Grade 50 for the girders, cross frame connection plates, bearing stiffeners and all splice plate material.
 Load carrying components designated "NTR" shall conform to the Impact Testing Requirement, Zone 2.
 See Sheet 24 of 59 for Section A-A.



GIRDER ELEVATION SPANS 4, 5 & 6

Hutchison Engineering, Inc.
 Jacksonville, Peoria & Shorewood, Illinois

USER NAME =	DESIGNED - BAN	REVISED -
PLOT SCALE = NONE	CHECKED - JOH	REVISED -
PLOT DATE = 1/10/2017	DRAWN - TAC	REVISED -
	CHECKED - BAN	REVISED -

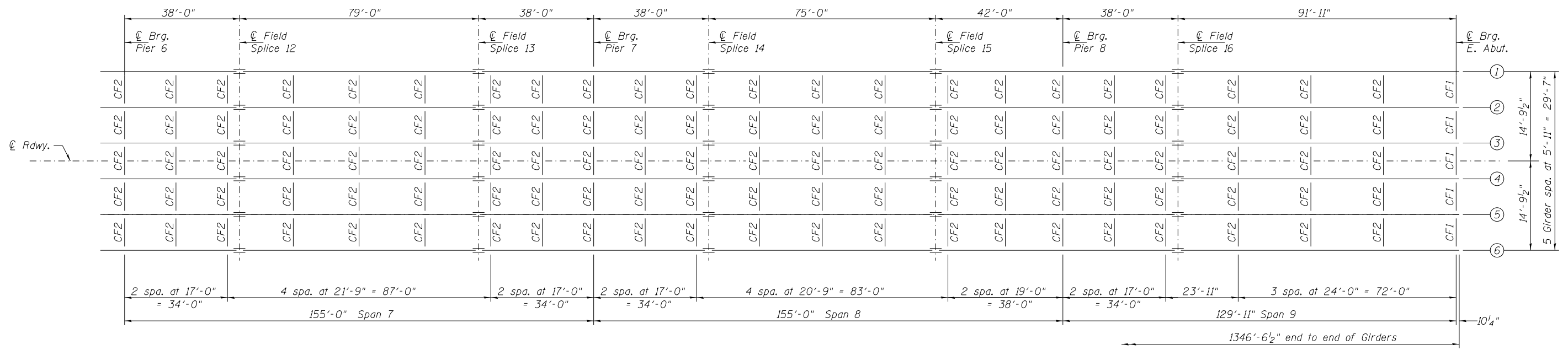
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

FRAMING PLAN - SPANS 4, 5 & 6
STRUCTURE NO. 003-0062

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
793	(40,112)BR-1	BOND	95	48
CONTRACT NO.			76967	

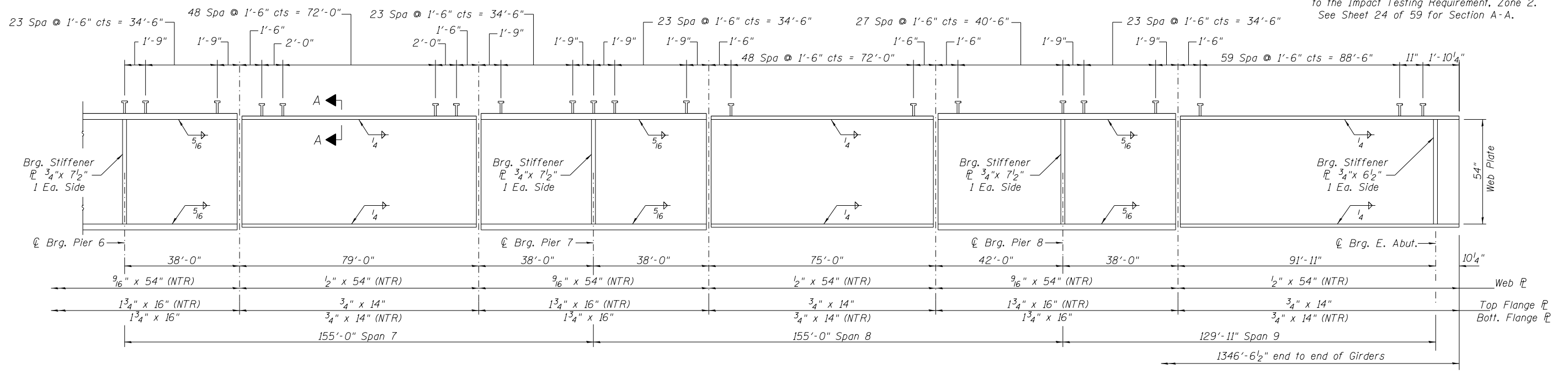
SHEET NO. 22 OF 59 SHEETS

ILLINOIS FED. AID PROJECT



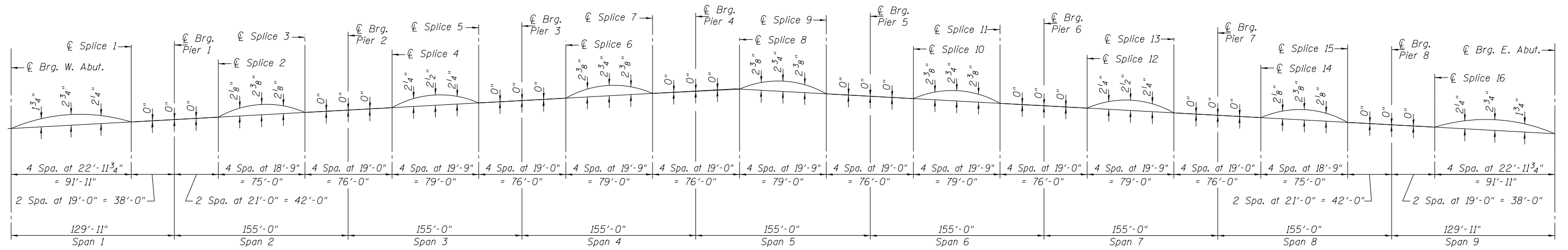
FRAMING PLAN SPANS 7, 8 & 9

Notes:
 Structural steel shall be AASHTO M270 Grade 50 for the girders, cross frame connection plates, bearing stiffeners and all splice plate material.
 Load carrying components designated "NTR" shall conform to the Impact Testing Requirement, Zone 2.
 See Sheet 24 of 59 for Section A-A.

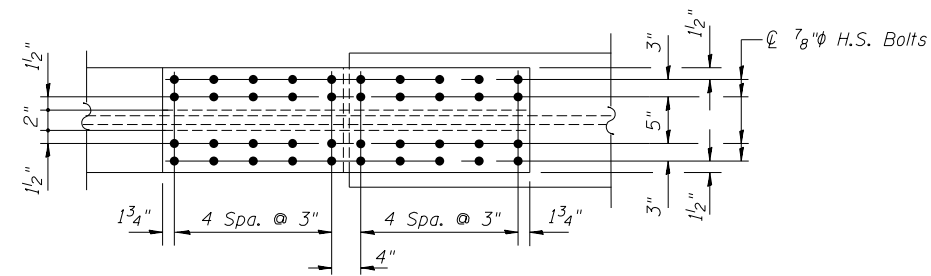


GIRDER ELEVATION SPANS 7, 8 & 9

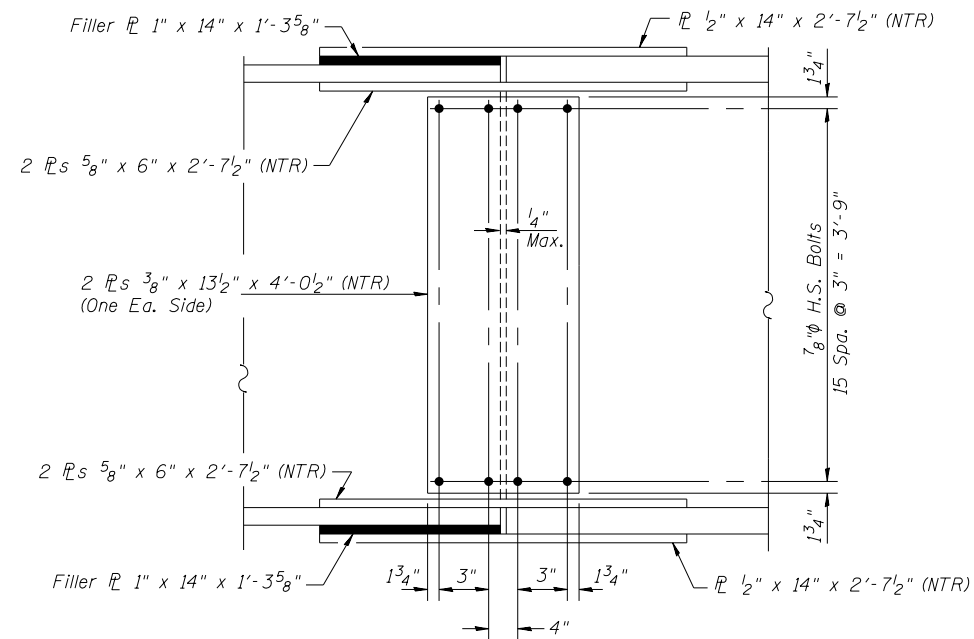
Hutchison Engineering, Inc. Jacksonville, Peoria & Shorewood, Illinois	USER NAME =	DESIGNED - BAN	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	FRAMING PLAN - SPANS 7, 8 & 9 STRUCTURE NO. 003-0062	F.A.P. RTE. 793	SECTION (40,112)BR-1	COUNTY BOND	TOTAL SHEETS 95	SHEET NO. 49
	PLOT SCALE = NONE	CHECKED - JOH	REVISED -			CONTRACT NO. 76967				
	PLOT DATE = 1/10/2017	DRAWN - TAC	REVISED -			ILLINOIS FED. AID PROJECT				
		CHECKED - BAN	REVISED -							
SHEET NO. 23 OF 59 SHEETS										



CAMBER DIAGRAM

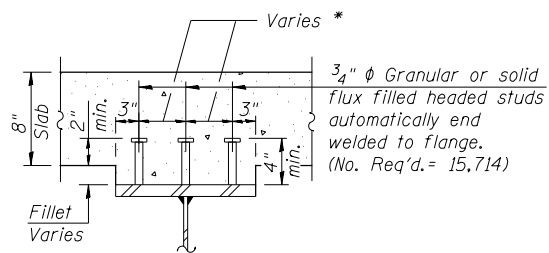


TOP AND BOTTOM FLANGE SPLICE



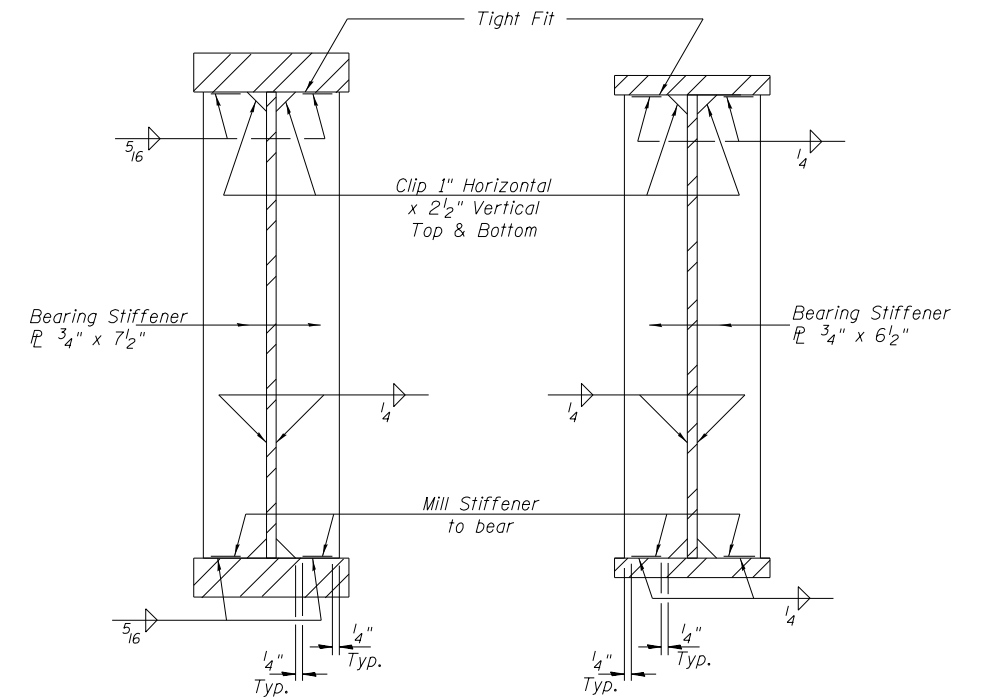
WEB SPLICE

FIELD SPLICE NO. 1 THRU NO. 16
(96 Required)



SECTION A-A

* 4" for 14" wide top flange
5" for 16" wide top flange



SECTION AT PIERS 1 THRU 8

SECTION AT W. ABUTMENT & E. ABUTMENT

BEARING STIFFENER DETAILS

Note:
Load carrying components designated "NTR" shall conform to the Impact Testing Requirement, Zone 2.

Hutchison Engineering, Inc.
Jacksonville, Peoria & Shorewood, Illinois

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PLOT DATE = 1/10/2017	DRAWN - TAC	REVISED -
	CHECKED - BAN	REVISED -

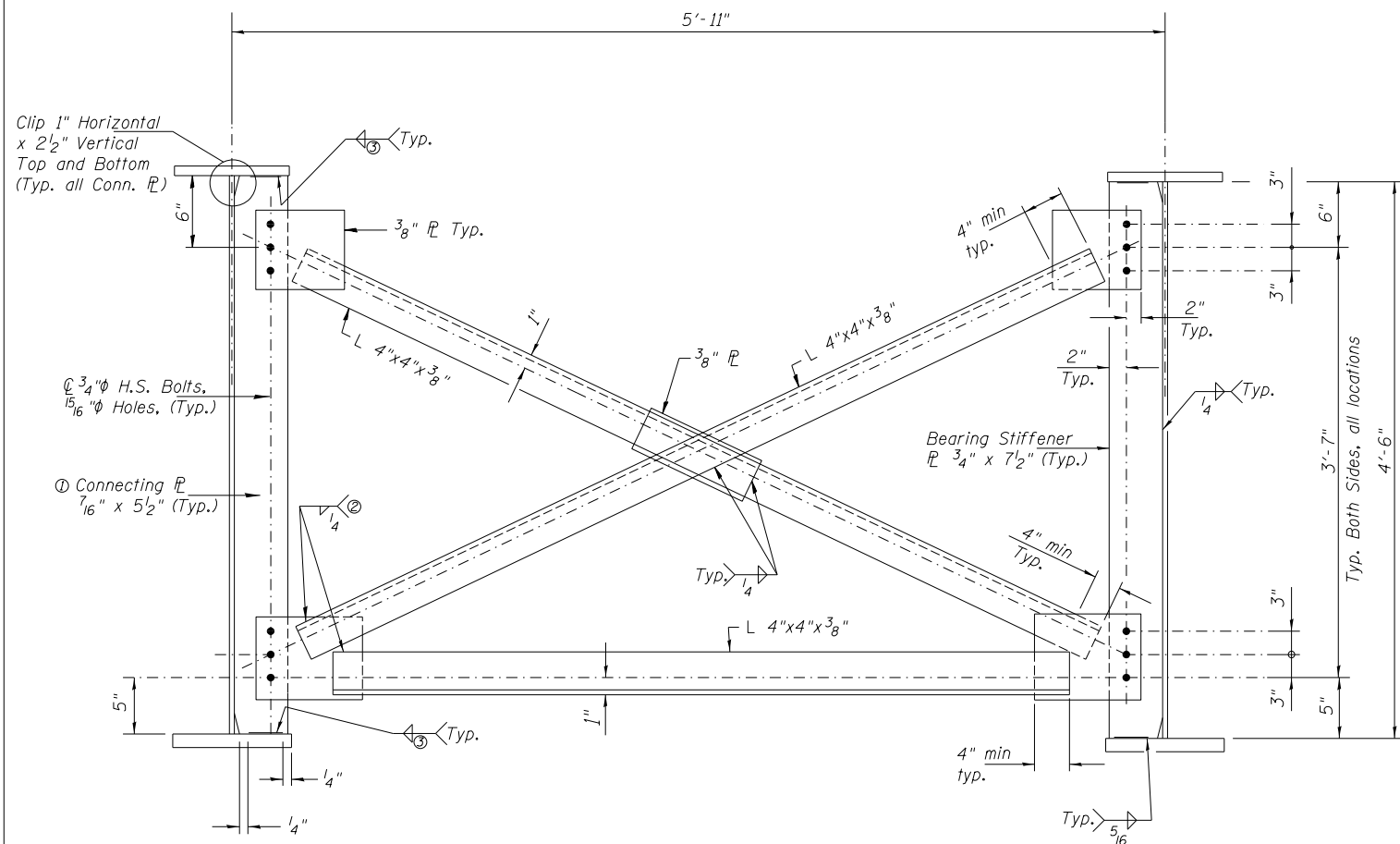
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

STRUCTURAL STEEL DETAILS
STRUCTURE NO. 003-0062

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
793	(40,112)BR-1	BOND	95	50
CONTRACT NO.			76967	

SHEET NO. 24 OF 59 SHEETS

ILLINOIS FED. AID PROJECT

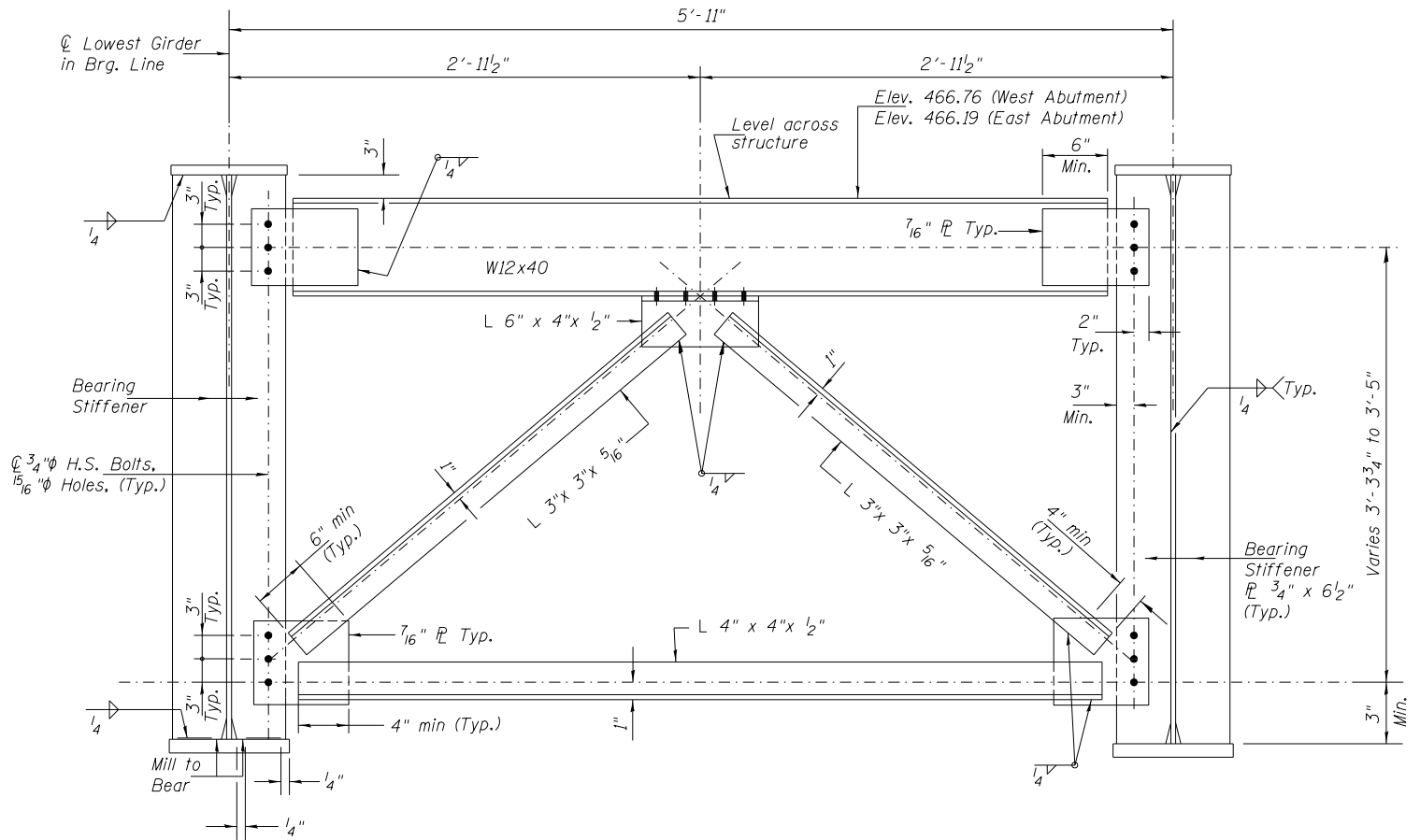


AT CONNECTION PLATE

AT BEARING STIFFENER

INTERIOR CROSS FRAME CF2
(No. Required = 335)

- ① Connecting plate not required on outside of exterior girder.
- ② Fillet weld angles along 3 sides on one face of gusset plate.
- ③ 1/4" @ 3/4" flanges
5/16" @ 1 3/4" flanges



END CROSS FRAME CF1
(No. Required = 10)

Notes:
 All bolts for cross frames shall be 3/4" A325 H.S. bolts with 5/16" holes.
 Two hardened washers required for each set of oversized holes.
 All cross frames shall be installed as steel is erected and secured with erection pins and bolts except as otherwise noted. Individual cross frames at supports may be temporarily disconnected to install bearing anchor rods.

Hutchison Engineering, Inc.
 Jacksonville, Peoria & Shorewood, Illinois

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PLOT SCALE = NONE	CHECKED - JOH	REVISED -
PLOT DATE = 1/10/2017	DRAWN - TAC	REVISED -
	CHECKED - BAN	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

STRUCTURAL STEEL DETAILS
STRUCTURE NO. 003-0062

SHEET NO. 25 OF 59 SHEETS

F.A.P. RTE. 793	SECTION (40,112)BR-1	COUNTY BOND	TOTAL SHEETS 95	SHEET NO. 51
CONTRACT NO. 76967			ILLINOIS FED. AID PROJECT	

INTERIOR GIRDER MOMENT TABLE										
	0.4 Sp. 1 or 0.6 Sp. 9	Pier 1 or 8	0.5 Sp. 2 or 8	Pier 2 or 7	0.5 Sp. 3 or 7	Pier 3 or 6	0.5 Sp. 4 or 6	Pier 4 or 5	0.5 Sp. 5	
I_s	(in ⁴)	22,299	50,902	22,299	50,902	22,299	50,902	22,299	50,902	22,299
$I_c(n)$	(in ⁴)	51,433	-	51,433	-	51,433	-	51,433	-	51,433
$I_c(3n)$	(in ⁴)	37,861	-	37,861	-	37,861	-	37,861	-	37,861
$I_c(cr)$	(in ⁴)	-	56,484	-	56,484	-	56,484	-	56,484	-
S_s	(in ³)	804	1,770	804	1,770	804	1,770	804	1,770	804
$S_c(n)$	(in ³)	1,113	-	1,113	-	1,113	-	1,113	-	1,113
$S_c(3n)$	(in ³)	1,006	-	1,006	-	1,006	-	1,006	-	1,006
$S_c(cr)$	(in ³)	-	1,841	-	1,841	-	1,841	-	1,841	-
DC1	(k/')	0.80	0.93	0.80	0.93	0.80	0.93	0.80	0.93	0.80
M _{DC1}	('k)	815	2,050	529	1,870	587	1,934	565	1,914	575
DC2	(k/')	0.15	0.15	0.15	0.15	0.15	0.15	0.15	0.15	0.15
M _{DC2}	('k)	161	356	107	327	117	337	114	334	115
DW	(k/')	0.30	0.30	0.30	0.30	0.30	0.30	0.30	0.30	0.30
M _{DW}	('k)	318	706	213	647	232	667	225	661	228
M _{ℓ + IM}	('k)	1,574	2,067	1,462	2,096	1,494	2,129	1,428	2,134	1,420
M _u (Strength I)	('k)	4,452	7,684	3,673	7,385	3,842	7,565	3,685	7,536	3,690
Φ _r M _n	('k)	5,414	8,330	5,633	8,328	5,591	8,328	5,607	8,328	5,599
f _s DC1	(ksi)	12.2	13.9	7.9	12.7	8.8	13.1	8.4	13.0	8.6
f _s DC2	(ksi)	1.9	2.3	1.3	2.1	1.4	2.2	1.4	2.2	1.4
f _s DW	(ksi)	3.8	4.6	2.5	4.2	2.8	4.3	2.7	4.3	2.7
f _s (ℓ + IM)	(ksi)	17.0	13.5	15.8	13.7	16.1	13.9	15.4	13.9	15.3
f _s (Service II)	(ksi)	40.0	38.4	32.2	36.8	33.9	37.7	32.5	37.6	32.6
0.95R _n F _{yr}	(ksi)	47.5	47.5	47.5	47.5	47.5	47.5	47.5	47.5	47.5
f _s (Total)(Strength I)	(ksi)	-	-	-	-	-	-	-	-	-
Φ _r F _n	(ksi)	-	-	-	-	-	-	-	-	-
V _r	(k)	28.7	31.7	24.1	31.6	24.2	31.7	24.8	32.8	24.2

I_s, S_s : Non-composite moment of inertia and section modulus of the steel section used for computing f_s (Total-Strength I, and Service II) due to non-composite dead loads (in.⁴ and in.³).

$I_c(n), S_c(n)$: Composite moment of inertia and section modulus of the steel and deck based upon the modular ratio, "n", used for computing f_s (Total-Strength I, and Service II) in uncracked sections due to short-term composite live loads (in.⁴ and in.³).

$I_c(3n), S_c(3n)$: Composite moment of inertia and section modulus of the steel and deck based upon 3 times the modular ratio, "3n", used for computing f_s (Total-Strength I, and Service II) in uncracked sections due to long-term composite (superimposed) dead loads (in.⁴ and in.³).

$I_c(cr), S_c(cr)$: Composite moment of inertia and section modulus of the steel and longitudinal deck reinforcement, used for computing f_s (Total -Strength I and Service II) in cracked sections, due to both short-term composite live loads and long-term composite (superimposed) dead loads (in.⁴ and in.³).

DC1: Un-factored non-composite dead load (kips/ft.).
M_{DC1}: Un-factored moment due to non-composite dead load (kip-ft.).
DC2: Un-factored long-term composite (superimposed excluding future wearing surface) dead load (kips/ft.).
M_{DC2}: Un-factored moment due to long-term composite (superimposed excluding future wearing surface) dead load (kip-ft.).
DW: Un-factored long-term composite (superimposed future wearing surface only) dead load (kips/ft.).
M_{DW}: Un-factored moment due to long-term composite (superimposed future wearing surface only) dead load (kip-ft.).
M_{ℓ + IM}: Un-factored live load moment plus dynamic load allowance (impact) (kip-ft.).
M_u (Strength I): Factored design moment (kip-ft.).
1.25 (M_{DC1} + M_{DC2}) + 1.5 M_{DW} + 1.75 M_{ℓ + IM}
Φ_rM_n: Compact composite positive moment capacity computed according to Article 6.10.7.1 or non-slender negative moment capacity according to Article A6.1.1 or A6.1.2 (kip-ft.).
f_s DC1: Un-factored stress at edge of flange for controlling steel flange due to vertical non-composite dead loads as calculated below (ksi).
M_{DC1} / S_c
f_s DC2: Un-factored stress at edge of flange for controlling steel flange due to vertical composite dead loads as calculated below (ksi).
M_{DC2} / S_c(3n) or M_{DC2} / S_c(cr) as applicable.
f_s DW: Un-factored stress at edge of flange for controlling steel flange due to vertical composite future wearing surface loads as calculated below (ksi).
M_{DW} / S_c(3n) or M_{DW} / S_c(cr) as applicable.
f_s (ℓ + IM): Un-factored stress at edge of flange for controlling steel flange due to vertical composite live plus impact loads as calculated below (ksi).
M_{ℓ + IM} / S_c(n) or M_{ℓ + IM} / S_c(cr) as applicable.
f_s (Service II): Sum of stresses as computed below (ksi).
f_sDC1 + f_sDC2 + f_sDW + 1.3 f_s (ℓ + IM)
0.95R_nF_{yr}: Composite stress capacity for Service II loading according to Article 6.10.4.2 (ksi).
f_s (Total)(Strength I): Sum of stresses as computed below on non-compact section (ksi).
1.25 (f_sDC1 + f_sDC2) + 1.5 f_sDW + 1.75 f_s (ℓ + IM)
Φ_rF_n: Non-Compact composite positive or negative stress capacity for Strength I loading according to Article 6.10.7 or 6.10.8 (ksi).
V_r: Maximum factored shear range in span computed according to Article 6.10.10.
LLDF: Live Load Distribution Factor

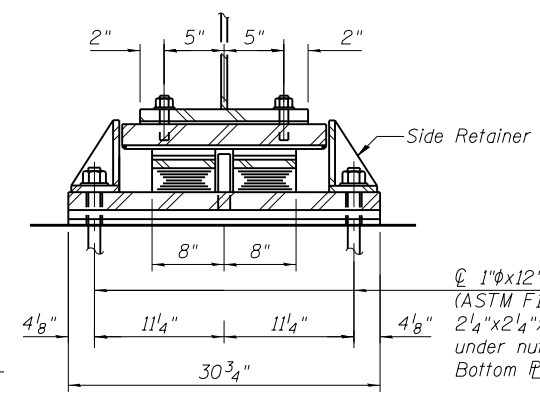
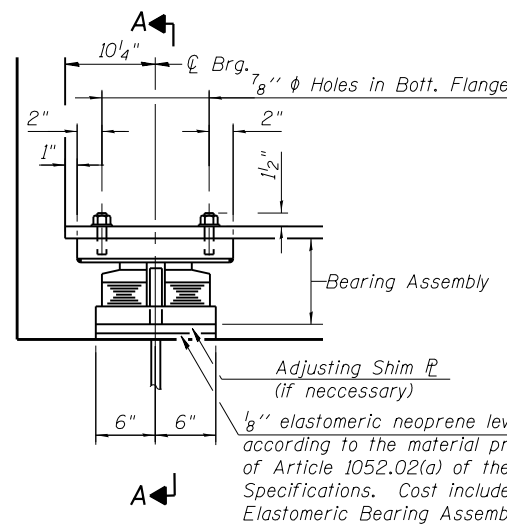
GIRDER REACTION TABLE											
	E. & W. Abutment		Pier 1 or 8		Pier 2 or 7		Pier 3 or 6		Pier 4 or 5		
	Interior	Exterior	Interior	Exterior	Interior	Exterior	Interior	Exterior	Interior	Exterior	
LLDF	0.665	0.479	0.665	0.479	0.665	0.479	0.665	0.479	0.665	0.479	
R _{DC1}	(k)	37.0	38.5	139.8	145.4	132.7	138.0	134.8	140.2	134.1	139.5
R _{DC2}	(k)	7.0	7.0	24.2	24.2	22.9	22.9	23.2	23.2	23.2	23.2
R _{DW}	(k)	13.8	9.7	48.0	33.8	45.4	32.0	46.1	32.5	45.8	32.3
R _{LL}	(k)	68.5	49.3	145.4	104.7	146.6	105.6	148.2	106.7	148.5	106.9
R _{IM}	(k)	14.3	10.3	25.3	18.2	24.8	17.9	24.9	17.9	24.8	17.9
R _{Total}	(k)	140.6	114.8	382.7	326.3	372.4	316.4	377.2	320.5	376.4	319.8

* TOP OF WEB ELEVATIONS

Girder No.	ℓ Brg. W. Abut.	ℓ Field Splice 1	ℓ Brg. Pier 1	ℓ Field Splice 2	ℓ Field Splice 3	ℓ Brg. Pier 2	ℓ Field Splice 4	ℓ Field Splice 5	ℓ Brg. Pier 3	ℓ Field Splice 6	ℓ Field Splice 7	ℓ Brg. Pier 4	ℓ Field Splice 8	ℓ Field Splice 9	ℓ Brg. Pier 5	ℓ Field Splice 10	ℓ Field Splice 11	ℓ Brg. Pier 6	ℓ Field Splice 12	ℓ Field Splice 13	ℓ Brg. Pier 7	ℓ Field Splice 14	ℓ Field Splice 15	ℓ Brg. Pier 8	ℓ Field Splice 16	ℓ Brg. E. Abut.
1	467.01	467.39	467.55	467.73	468.10	468.30	468.50	468.88	469.07	469.25	469.65	469.69	469.74	469.48	469.29	469.10	468.70	468.52	468.33	467.98	467.78	467.58	467.16	466.98	466.81	466.43
2	467.11	467.49	467.65	467.83	468.20	468.40	468.60	468.98	469.17	469.35	469.75	469.79	469.84	469.58	469.39	469.20	468.80	468.62	468.43	468.08	467.88	467.68	467.26	467.08	466.91	466.53
3	467.20	467.58	467.74	467.92	468.29	468.49	468.69	469.07	469.26	469.44	469.84	469.88	469.93	469.67	469.48	469.29	468.89	468.71	468.52	468.17	467.97	467.77	467.35	467.17	467.00	466.62
4	467.20	467.58	467.74	467.92	468.29	468.49	468.69	469.07	469.26	469.44	469.84	469.88	469.93	469.67	469.48	469.29	468.89	468.71	468.52	468.17	467.97	467.77	467.35	467.17	467.00	466.62
5	467.11	467.49	467.65	467.83	468.20	468.40	468.60	468.98	469.17	469.35	469.75	469.79	469.84	469.58	469.39	469.20	468.80	468.62	468.43	468.08	467.88	467.68	467.26	467.08	466.91	466.53
6	467.01	467.39	467.55	467.73	468.10	468.30	468.50	468.88	469.07	469.25	469.65	469.69	469.74	469.48	469.29	469.10	468.70	468.52	468.33	467.98	467.78	467.58	467.16	466.98	466.81	466.43

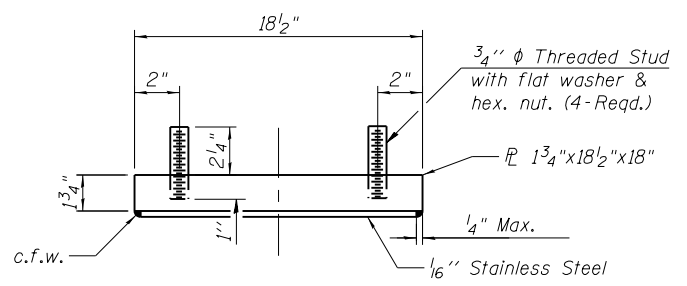
*For fabrication only

Hutchison Engineering, Inc. Jacksonville, Peoria & Shorewood, Illinois	USER NAME =	DESIGNED - BAN	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	STRUCTURAL STEEL DETAILS STRUCTURE NO. 003-0062	F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	PLOT SCALE = NONE	CHECKED - JOH	REVISED -			793	(40,112)BR-1	BOND	95	52
	PLOT DATE = 1/10/2017	DRAWN - TAC	REVISED -			CONTRACT NO. 76967				
	CHECKED - BAN	REVISED -	SHEET NO. 26 OF 59 SHEETS			ILLINOIS FED. AID PROJECT				

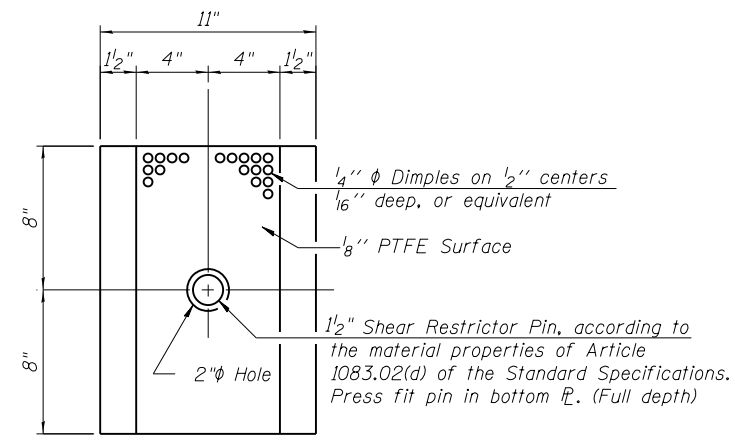


1"φx12" Anchor bolts (ASTM F1554 Grade 36) with 2 1/4"x2 1/4"x5/16" washer under nut 1 1/2" φ Hole in Bottom fl.

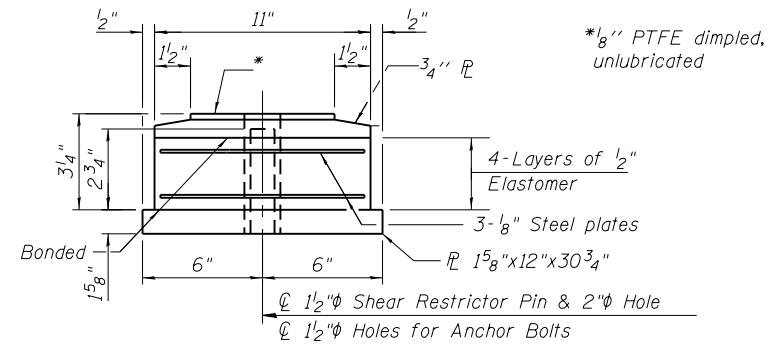
ELEVATION AT ABUT. SECTION A-A
TYPE III ELASTOMERIC EXP. BRG.
 (East and West Abutments)



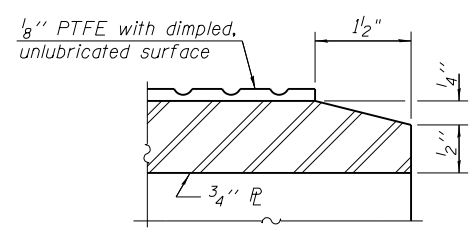
TOP BEARING ASSEMBLY



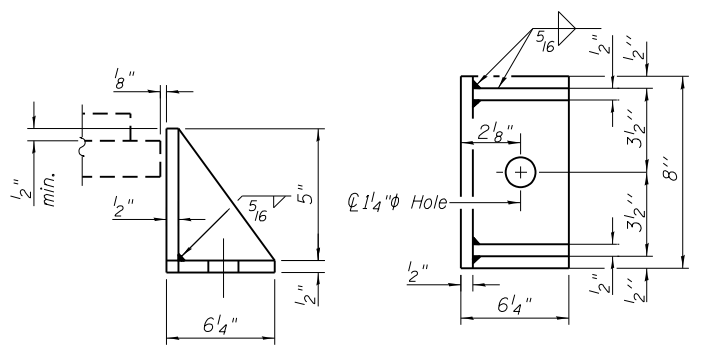
PLAN-PTFE ELASTOMERIC BRG.



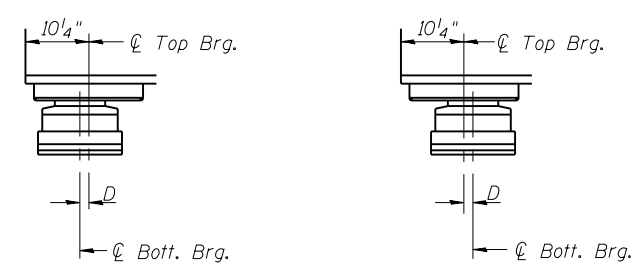
BOTTOM BEARING ASSEMBLY



SECTION THRU PTFE



SIDE RETAINER
 Equivalent rolled angle with stiffeners will be allowed in lieu of welded plates.



EXPANSION BEARING ORIENTATION
 The above diagrams are for informational purposes only to show the amount of expected offset "D" for the current temperature in the field.

Notes:
 Anchor bolts shall be ASTM F1554 all-thread (or an Engineer-approved alternate material) of the grade(s) and diameter(s) specified. The corresponding specified grade of AASHTO M314 anchor bolts may be used in lieu of ASTM F1554.
 Side retainers and other steel members required for the elastomeric bearing assembly shall be included in the cost of Elastomeric Bearing Assembly, Type III.

The 1/8" PTFE sheet shall be bonded directly to the top steel plate with a two-component, medium viscosity epoxy resin, conforming to the requirements of the Federal Specification MMM-A-134, Type I. The bond agent shall be applied on the full area of the contact surfaces.

Bonding of 1/8" PTFE sheet during vulcanizing process will be permitted provided the process and method of adjusting assembly height is approved by the Engineer.

Two 1/8 in. adjusting shims shall be provided for each bearing in addition to all other plates or shims and placed as shown on bearing details.

The structural steel for elastomeric Bearing Assembly shall conform to the requirements of AASHTO M 270 Grade 36.

Beams shall be braced for stability during erection and remain braced until deck is poured and cured.

Anchor bolts and side retainers at all supports shall be installed as each member is erected unless an equivalent temporary means of lateral restraint is used.

The anchor bolt sizes and grades shown constitute a calculated seismic structural fuse. Substitution of higher diameter and/or grade anchor bolts will not be allowed.

BILL OF MATERIAL

Item	Unit	Total
Elastomeric Bearing Assembly Type III	Each	12
Anchor Bolts, 1"	Each	24

PRINT DATE: 1/9/2017 10:40:02 AM Y:\1602100 IL 143 over ShoalCreek Phase I\INDGN\Bridg\Final\Plot\Sheets\0030062-76967-029-Abutment Bearing.dgn

I-2E-3 12-2-15

EFK Moen, LLC
 Civil Engineering Design
 303 Fountains Parkway, Suite 240
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 Phone 618-206-4250

USER NAME = jsr	DESIGNED - CDL	REVISED -
PLOT SCALE = 0.1667' / 1"	CHECKED - JSR	REVISED -
PLOT DATE = 1/9/2017	DRAWN - JAA	REVISED -
	DATE - 1/9/2017	REVISED -

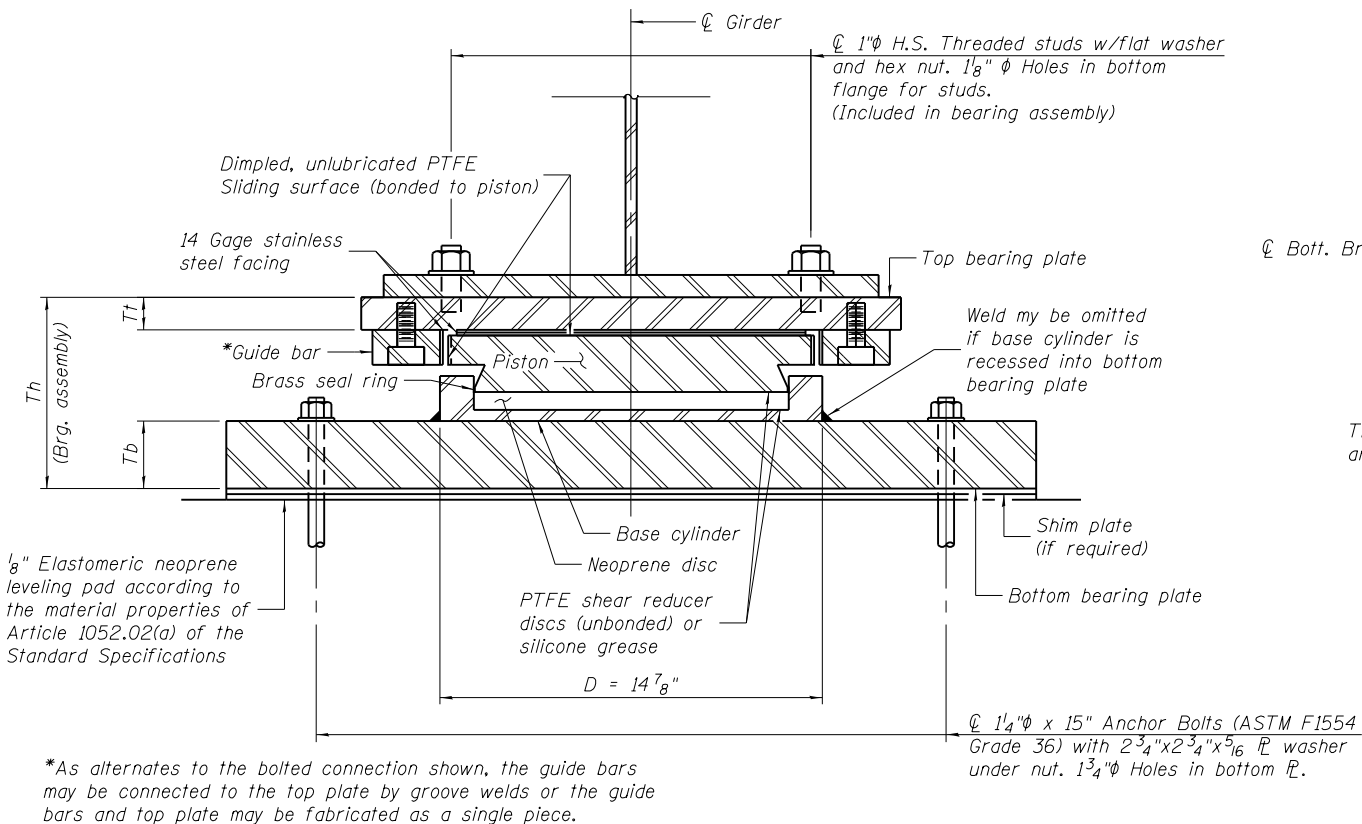
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

BEARING DETAILS - ABUTMENTS
STRUCTURE NO. 003-0062

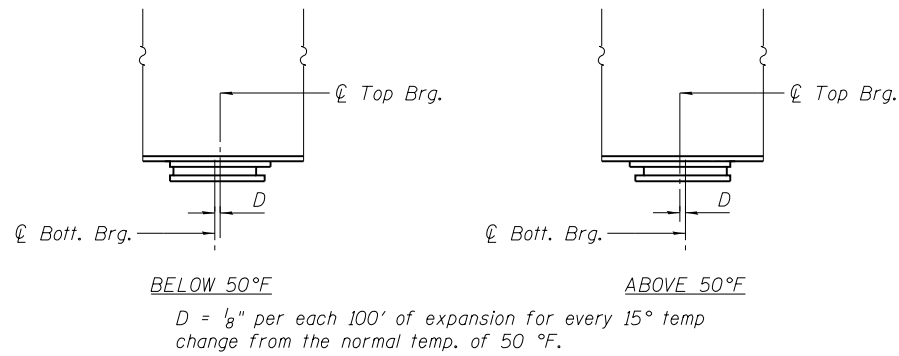
SHEET NO. 27 OF 59 SHEETS

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
793	(40,112) BR-1	BOND	95	53
CONTRACT NO. 76967				
ILLINOIS FED. AID PROJECT				

PRINT DATE: 1/9/2017 10:40:02 AM Y:\1602100_IL_143_Over ShoalCreek Phase I\Drawings\Bridges\Final\PlotSheets\0030062-76967-030-HLMR Exp.dgn



GUIDED EXPANSION POT BEARING
(Piers 1-3 and 6-8)



EXPANSION BEARING ORIENTATION

The above diagrams are for informational purposes only to show the amount of expected offset "D" for the current temperature in the field.

Notes:

All structural steel plates of the Bearing Assembly shall conform to the requirements of AASHTO M 270 Grade 36.

If base cylinder is recessed into the bottom bearing plate, the thickness of the bottom plate shall be Tb plus the depth of the recess.

Anchor bolts shall be ASTM F1554 all-thread (or an Engineer-approved alternative material) of the grade and diameter specified. The corresponding specified grade of AASHTO M314 anchor bolts may be used in lieu of ASTM F1554.

Two 1/8" adjusting shims shall be provided for each bearing in addition to all other plates or shims and placed as shown on bearing details.

H.S. bolts in bearing assembly shall be galvanized according to AASHTO M298 Class 50.

Bearing dimensions and details shown are for a pot type HLMR bearing. Disc-type HLMR bearing dimensions and details will vary.

All structural steel and exposed surfaces of bearings shall be painted as specified in Section 506 of the Standard Specifications

The anchor bolt sizes and grades shown constitute a calculated seismic structural fuse. Substitution of higher diameter and/or grade anchor bolts will not be allowed.

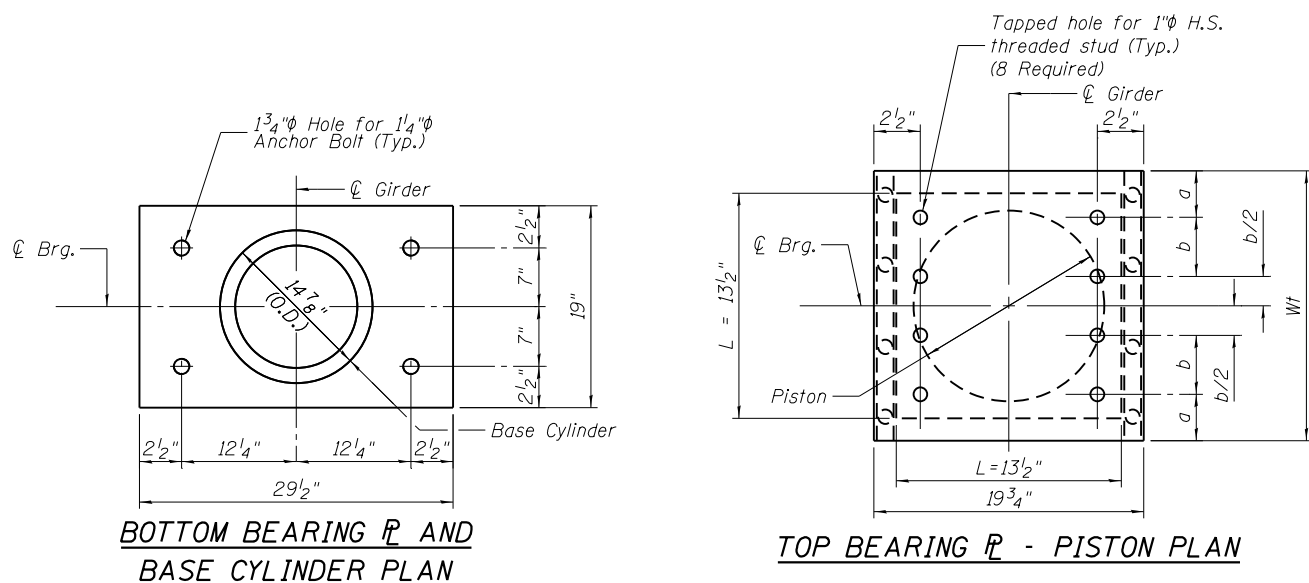
GUIDED EXPANSION BEARING TABLE

Location	No. Req'd	Vertical Load Capacity	Vertical Design Load	Lateral Design Loads		Total Required Movement	Top Plate			Tt	Tb	Th
				Hu	θu		Wt	a	b			
Piers 1 and 8	12	400 K	357 K	80 K	0.016 rad	3 1/2"	19"	2 3/4"	4 1/2"	2 3/8"	2 1/8"	9 1/4"
Piers 2 and 7	12	400 K	350 K	80 K	0.016 rad	2 1/2"	18"	2 1/4"	4 1/2"	2 3/8"	2 1/8"	9 1/4"
Piers 3 and 6	12	400 K	352 K	80 K	0.016 rad	1 1/2"	17"	2 1/2"	4"	2 1/2"	2 1/8"	9 1/4"

Vertical Design Load: Total service axial DL+LL without impact
Hu: The larger of the Factored Ultimate (Strength) Design Lateral Load or 20% of the vertical service design load
θu: Maximum Factored Ultimate (Strength) Design Rotation

BILL OF MATERIAL

Item	Unit	Total
Anchor Bolts, 1 1/4"	Each	144
High Load Multi-Rotational Bearings, Guided Expansion 400K	Each	36



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USER NAME = jsr	DESIGNED - CDL	REVISED -
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PLOT DATE = 1/9/2017	DRAWN - JAA	REVISED -
	DATE - 1/9/2017	REVISED -

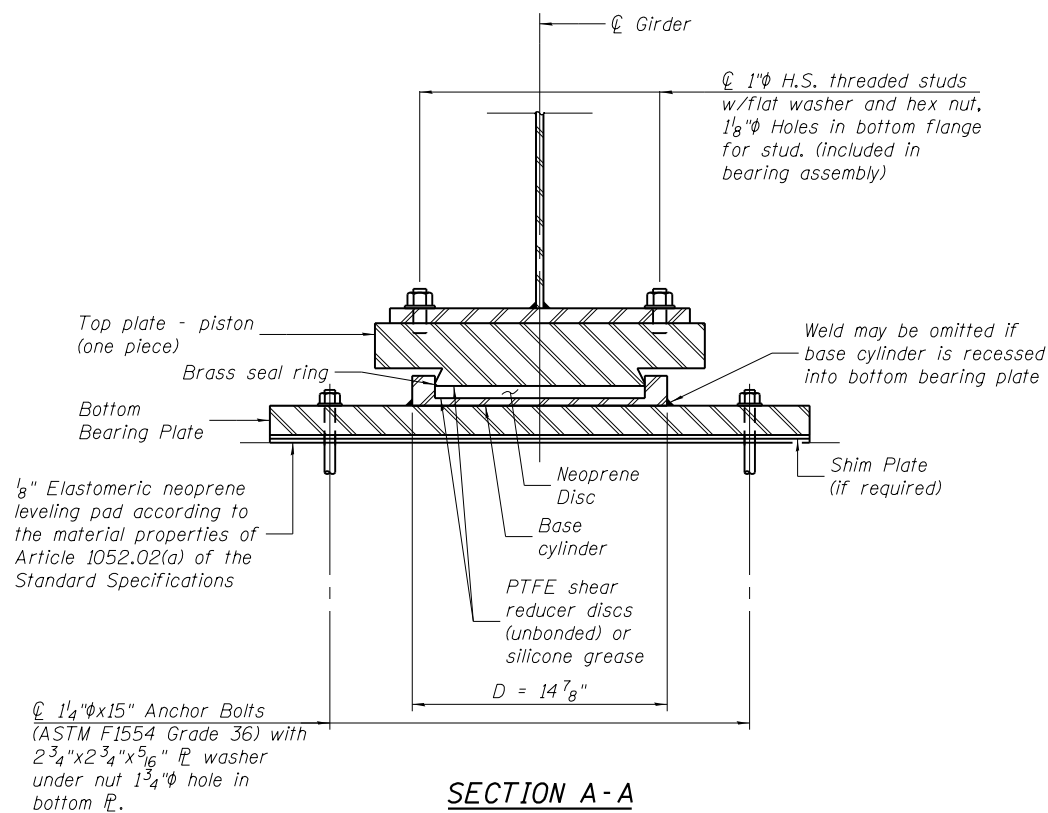
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

BEARING DETAILS - PIERS 1, 2, 3, 6, 7 & 8
STRUCTURE NO. 003-0062

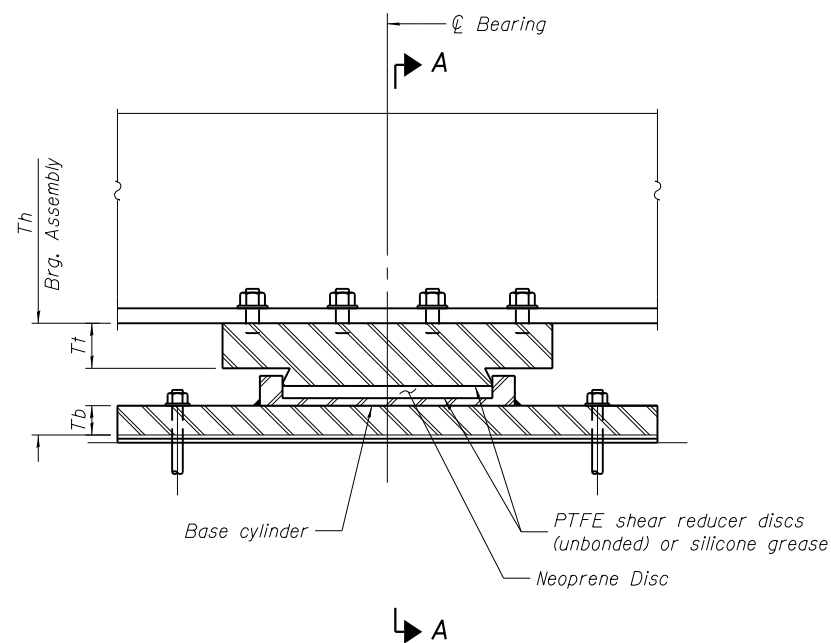
SHEET NO. 28 OF 59 SHEETS

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
793	(40,112) BR-1	BOND	95	54
CONTRACT NO. 76967				
ILLINOIS FED. AID PROJECT				

PRINT DATE: 1/9/2017 10:40:03 AM Y:\1602100 IL 143 over ShoalCreek Phase IN\DGN\Bridges\Final\PlotSheets\0030062-76967-031-HLMR Fixed.dgn



SECTION A-A



ELEVATION AT PIER

FIXED POT BEARING

(Piers 4 and 5)

Notes:

All structural steel plates of the Bearing Assembly shall conform to the requirements of AASHTO M 270 Grade 36.

Two 1/8 in. adjusting shims shall be provided for each bearing in addition to all other plates or shims and placed as shown on bearing details.

All structural steel and exposed surfaces of bearings shall be painted as specified in section 506 of the Standard Specifications.

If base cylinder is recessed into the bottom bearing plate, the thickness of the bottom plate shall be Tb plus the depth of the recess.

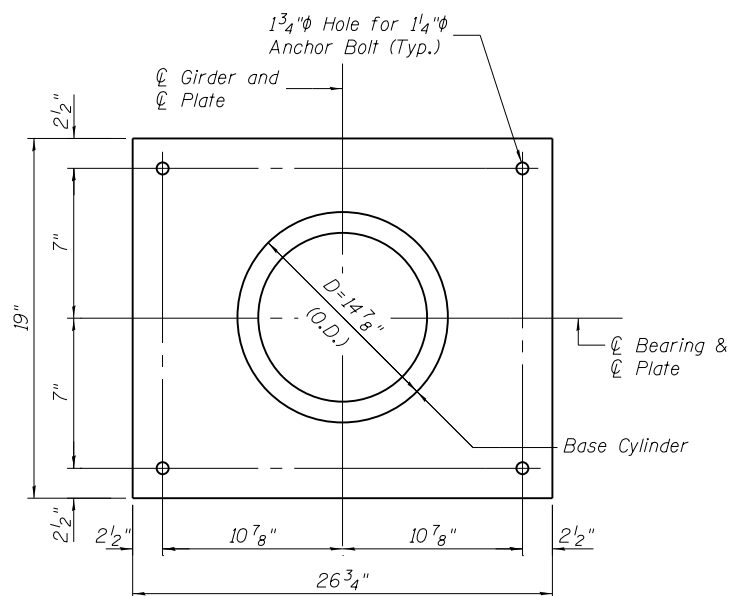
Anchor bolts shall be ASTM F1554 all-thread (or an Engineer-approved alternate material) of the grade(s) and diameter(s) specified. The corresponding specified grade of AASHTO M314 anchor bolts may be used in lieu of ASTM F1554.

Anchor bolts at fixed bearings may be either cast in place or installed in holes drilled after the supported member is in place.

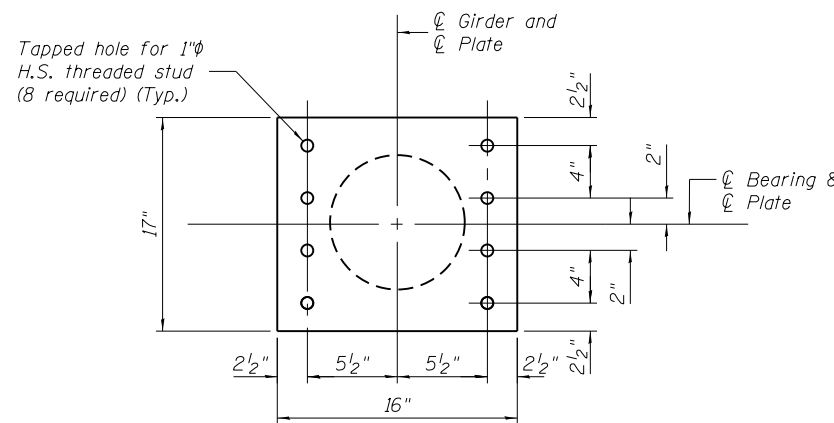
Drilled and set anchor bolts shall be installed according to Article 521.06 of the Standard Specifications.

The anchor bolt sizes and grades shown constitute a calculated seismic structural fuse. Substitution of higher diameter and/or grade anchor bolts will not be allowed.

H.S. bolts in bearing assembly shall be galvanized according to AASHTO M298 Class 50.



BOTTOM BEARING PLATE AND BASE CYLINDER PLAN



TOP BEARING PLATE AND PISTON PLAN

FIXED BEARING TABLE

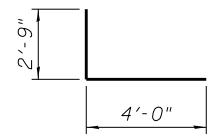
Location	No Req'd	Vertical Load Capacity	Design Vertical Load	Lateral Design Loads		T1	Tb	Th
				Hu	θu			
Piers 4 and 5	12	400 K	352 K	80 K	0.016 rad	2 3/4"	1 3/4"	8"

Vertical Design Load: Total service axial DL+LL without impact
 Hu: The larger of the Factored Ultimate (Strength) Design Lateral Load or 20% of the vertical service design load
 θu: Maximum Factored Ultimate (Strength) Design Rotation

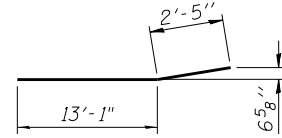
BILL OF MATERIAL

Item	Unit	Total
Anchor Bolts, 1/4"	Each	48
High Load Multi-Rotational Bearings, Fixed 400K	Each	12

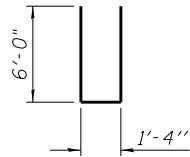
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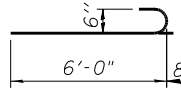
BAR h₂(E)



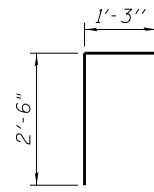
BAR h₄(E)



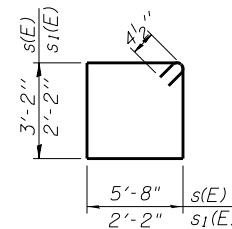
BAR n(E)



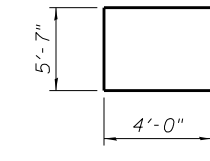
BAR n₁(E)



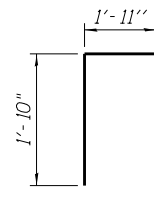
BAR v₇(E)



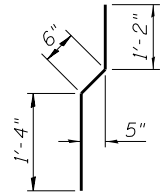
BARS s(E) & s₁(E)



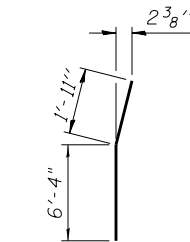
BAR u(E)



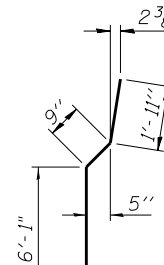
BAR v(E)



BAR v₁(E)



BAR v₃(E)



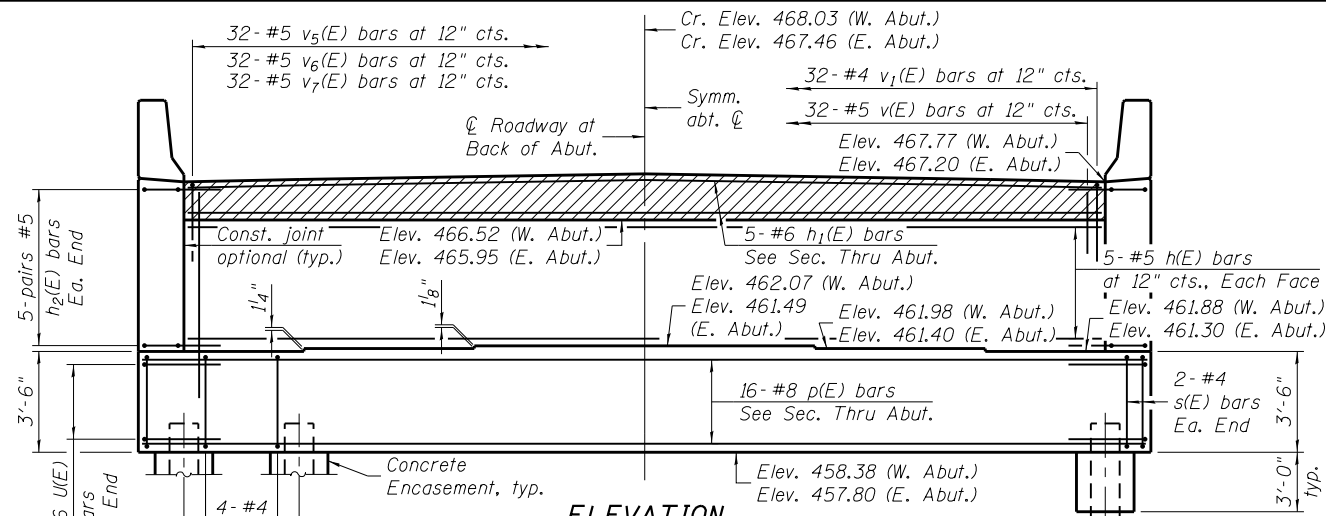
BAR v₄(E)

W. ABUT. PILE DATA

Type: HP 12x53
 Nominal Required Bearing: 419 kips
 Factored Resistance Available: 230 kips
 Est. Length: 55'
 No. Production Piles: 11
 No. Test Piles: 0

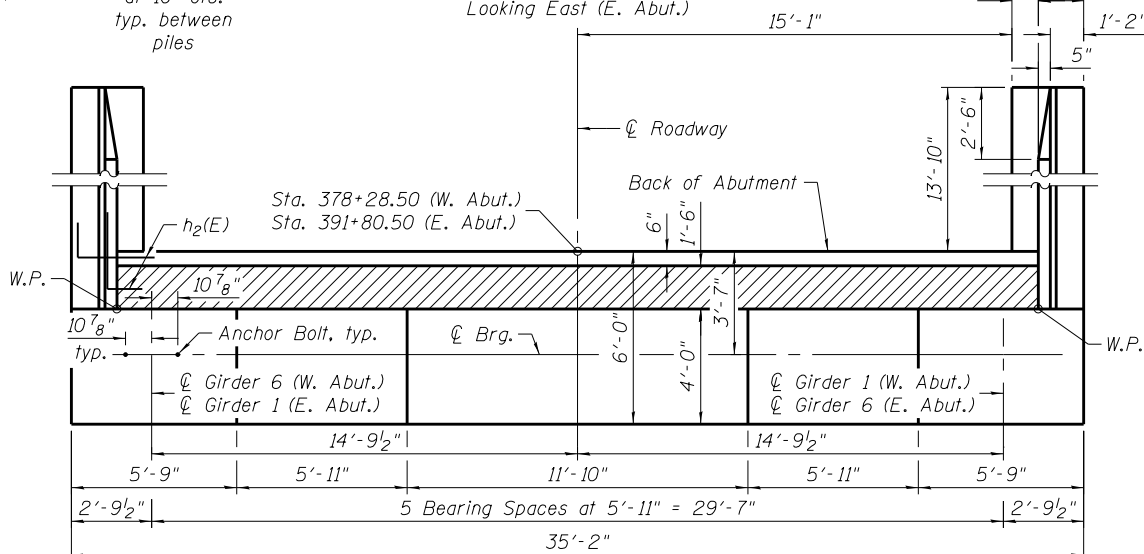
E. ABUT. PILE DATA

Type: HP 12x53
 Nominal Required Bearing: 419 kips
 Factored Resistance Available: 230 kips
 Est. Length: 59'
 No. Production Piles: 10
 No. Test Piles: 1

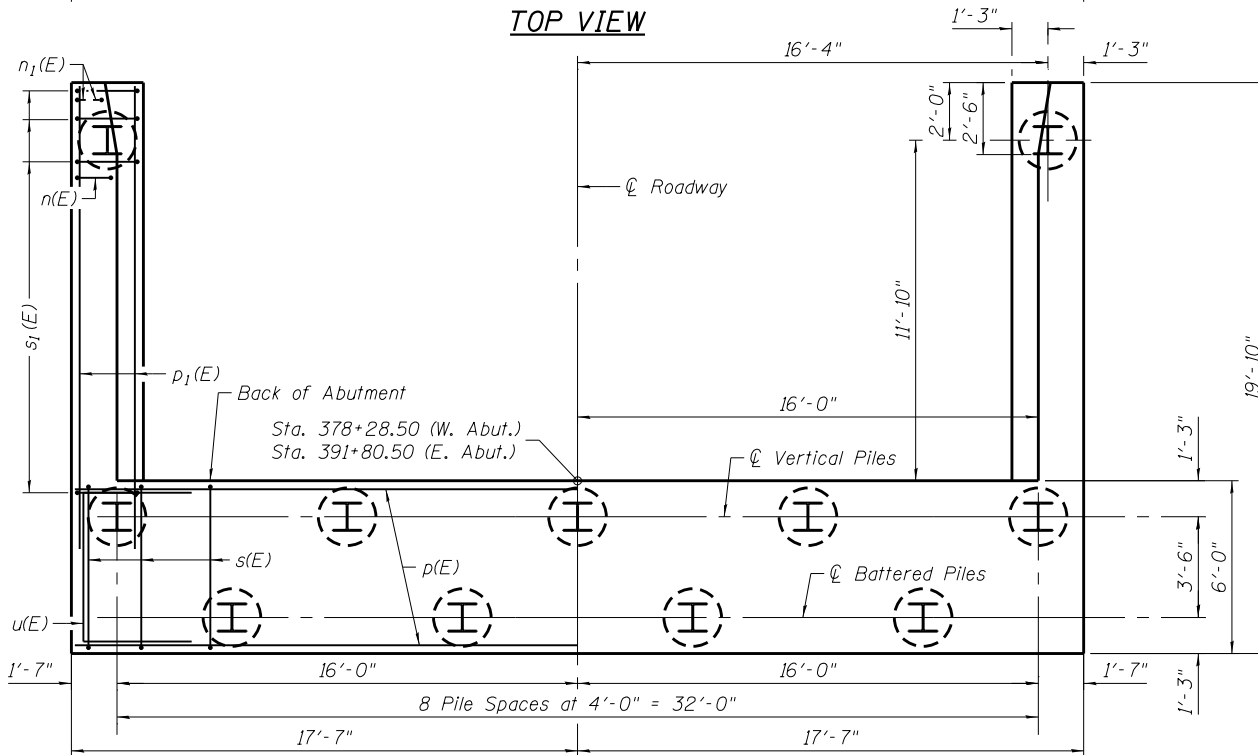


ELEVATION

Looking West (W. Abut.)
 Looking East (E. Abut.)



TOP VIEW



PLAN-PILE CAP

**TWO ABUTMENTS
 BILL OF MATERIAL**

Bar	No.	Size	Length	Shape
h(E)	20	#5	31'-8"	—
h ₁ (E)	10	#6	31'-8"	—
h ₂ (E)	40	#5	6'-9"	L
h ₃ (E)	48	#4	15'-6"	—
h ₄ (E)	32	#4	15'-6"	—
n(E)	56	#6	13'-4"	—
n ₁ (E)	24	#6	6'-8"	—
p(E)	32	#8	34'-10"	—
p ₁ (E)	24	#7	19'-5"	—
s(E)	72	#4	18'-5"	—
s ₁ (E)	60	#4	9'-5"	—
u(E)	16	#6	13'-7"	—
v(E)	64	#5	3'-9"	—
v ₁ (E)	64	#4	3'-0"	—
v ₂ (E)	64	#6	8'-4"	—
v ₃ (E)	12	#6	8'-3"	—
v ₄ (E)	56	#6	8'-9"	—
v ₅ (E)	64	#5	6'-8"	—
v ₆ (E)	64	#5	8'-3"	—
v ₇ (E)	64	#5	3'-9"	L
Structure Excavation		Cu. Yd.	505	
Concrete Structures		Cu. Yd.	115.8	
Concrete Encasement		Cu. Yd.	9.1	
Reinforcement Bars, Epoxy Coated		Pound	12,440	
Furnishing Steel Piles HP12x53		Foot	1,195	
Driving Piles		Foot	1,195	
Test Pile Steel HP12x53		Each	1	
Concrete Sealer		Sq. Ft.	848	

For details of piles and Concrete Encasement, see sheet 40 of 59.

A-1

7-1-10

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USER NAME = jsr	DESIGNED - CDL	REVISED -
	CHECKED - JSR	REVISED -
PLOT SCALE = 3/8" = 1'-0"	DRAWN - JAA	REVISED -
PLOT DATE = 1/9/2017	DATE - 1/9/2017	REVISED -

**STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION**

**ABUTMENTS
 STRUCTURE NO. 003-0062**

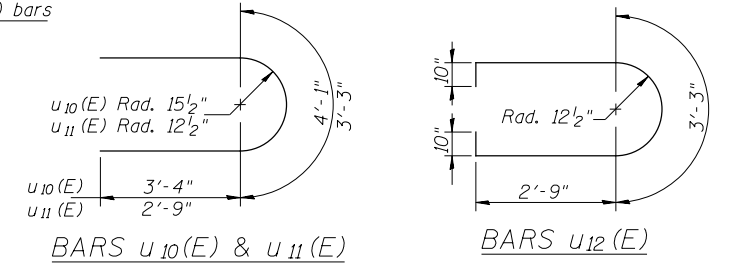
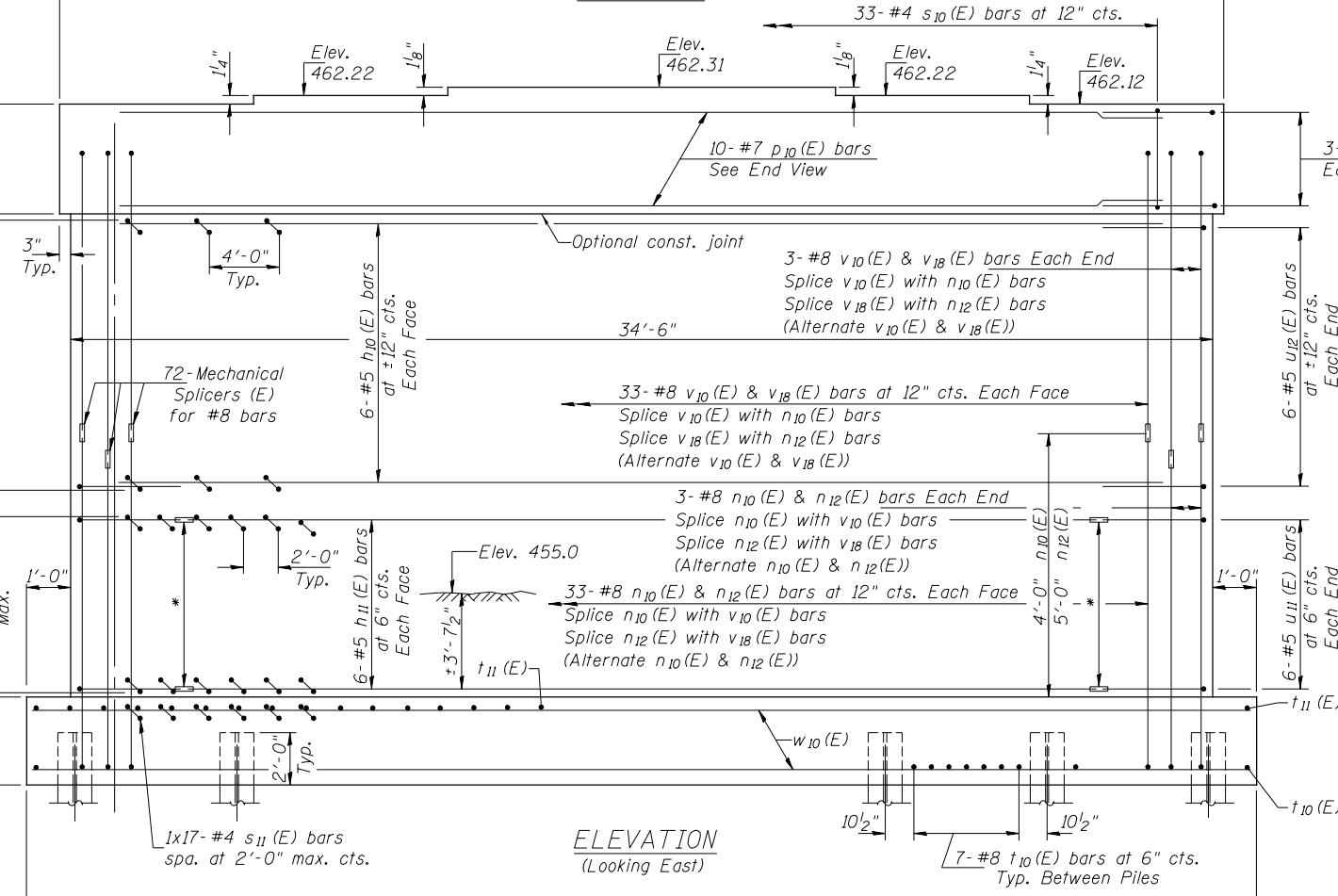
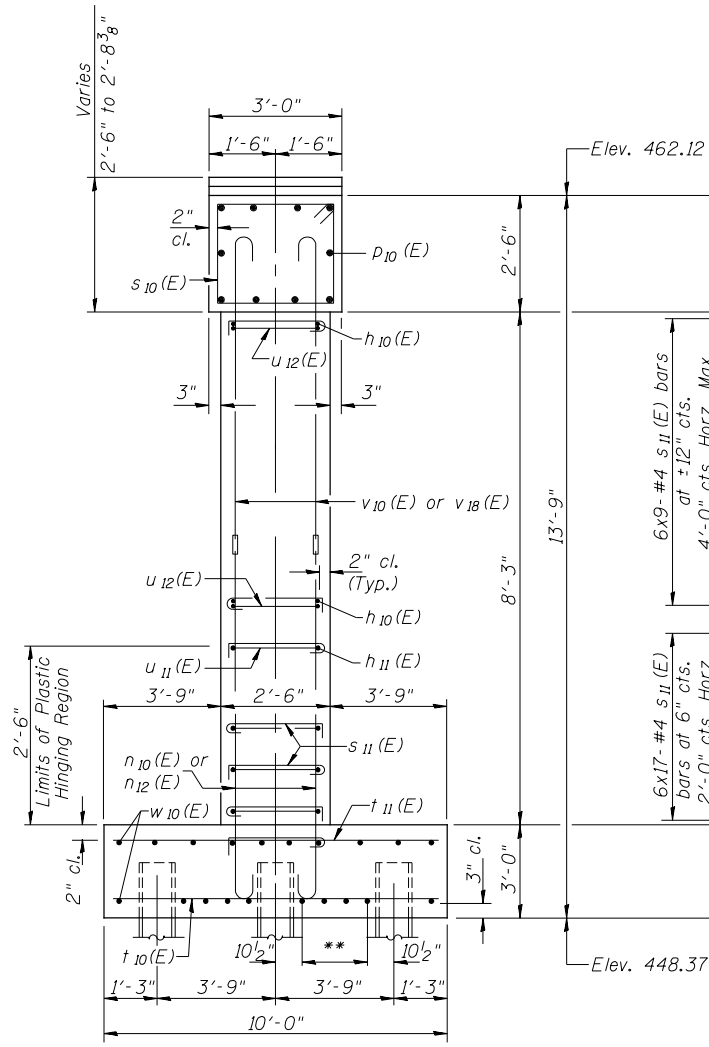
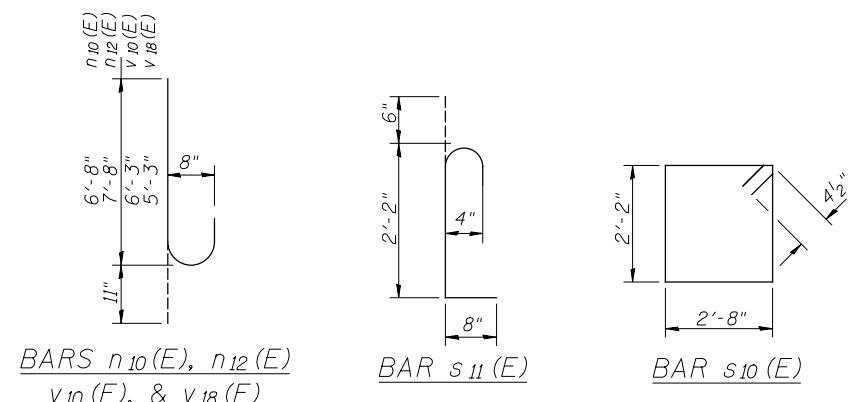
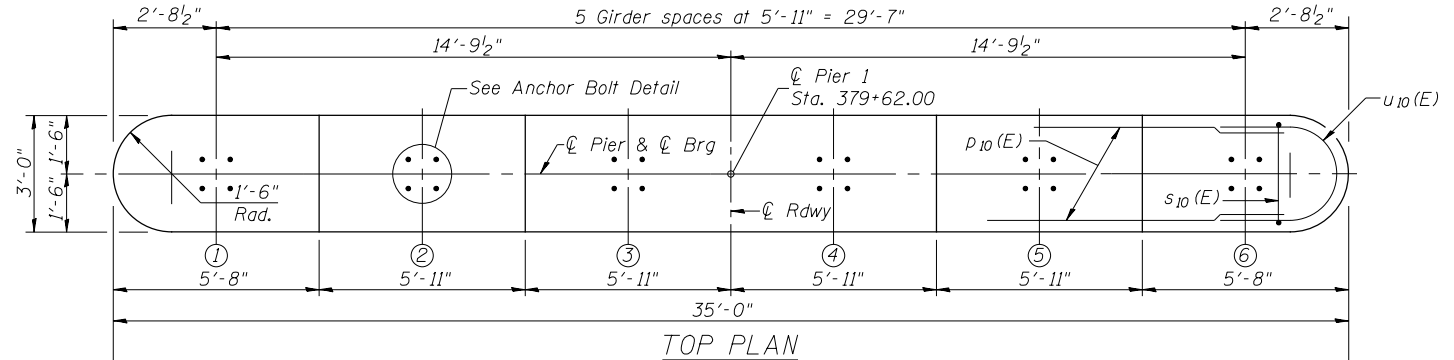
SHEET NO. 30 OF 59 SHEETS

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
793	(40,112) BR-1	BOND	95	56
CONTRACT NO. 76967				
ILLINOIS FED. AID PROJECT				

Notes:
 Space reinforcement in cap to miss anchor bolts.
 Four steps monolithically with cap.
 For details of piles, see sheet 40 of 59.

PILE DATA

Type: Steel HP12x53
 Nominal Required Bearing: 419 kips
 Factored Resistance Available: 230 kips
 Est. Length: 54 Ft.
 No. Production Piles: 24

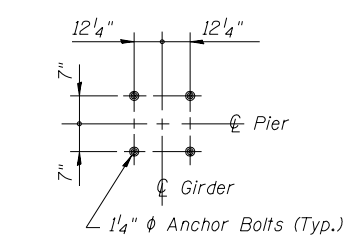


**PIER 1
 BILL OF MATERIAL**

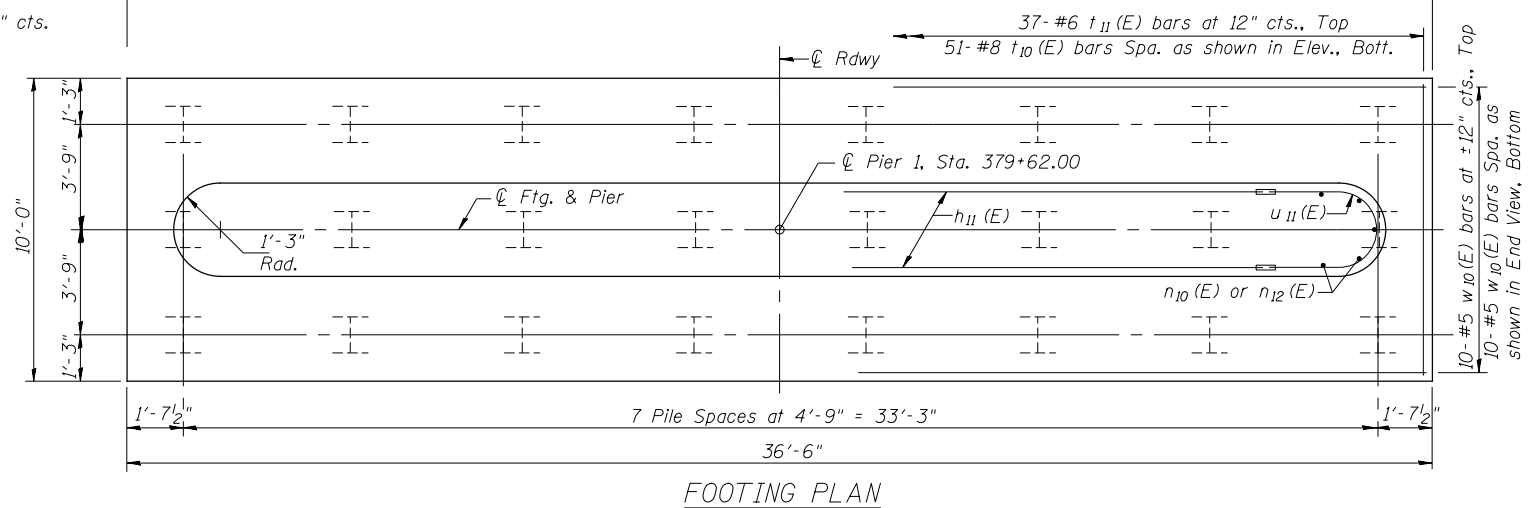
Bar	No.	Size	Length	Shape
h ₁₀ (E)	12	#5	32'-0"	—
h ₁₁ (E)	12	#5	26'-6"	—
n ₁₀ (E)	36	#8	7'-7"	U
n ₁₂ (E)	36	#8	8'-7"	U
p ₁₀ (E)	10	#7	32'-0"	—
s ₁₀ (E)	33	#4	10'-5"	□
s ₁₁ (E)	173	#4	3'-4"	C
t ₁₀ (E)	51	#8	9'-9"	—
t ₁₁ (E)	37	#6	9'-9"	—
u ₁₀ (E)	6	#6	10'-9"	U
u ₁₁ (E)	12	#5	8'-9"	U
u ₁₂ (E)	12	#5	10'-5"	U
v ₁₀ (E)	36	#8	7'-2"	U
v ₁₈ (E)	36	#8	6'-2"	U
w ₁₀ (E)	20	#5	36'-3"	—
Structure Excavation			Cu. Yd.	140
Concrete Structures			Cu. Yd.	76.4
Reinforcement Bars, Epoxy Coated			Pound	7,800
Furnishing Steel Piles HP12x53			Foot	1,296
Driving Piles			Foot	1,296
Mechanical Splicers			Each	96

* 6-Mechanical Splicers or shop welded splicer per AWS D1.4 on horizontal bars. (Each Face, Each End)

**4-#5 w₁₀(E) bars at 8" cts. Typ. Between Piles



ANCHOR BOLT DETAIL



**STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION**

**PIER 1
 STRUCTURE NO. 003-0062**

SHEET NO. 32 OF 59 SHEETS

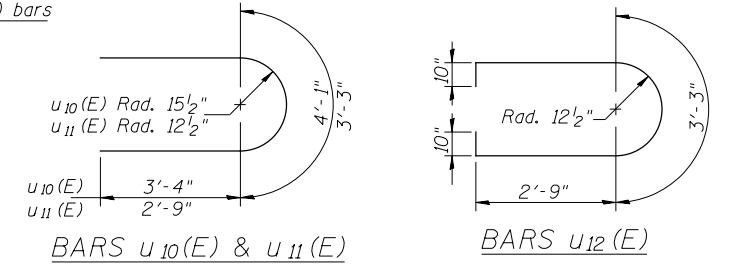
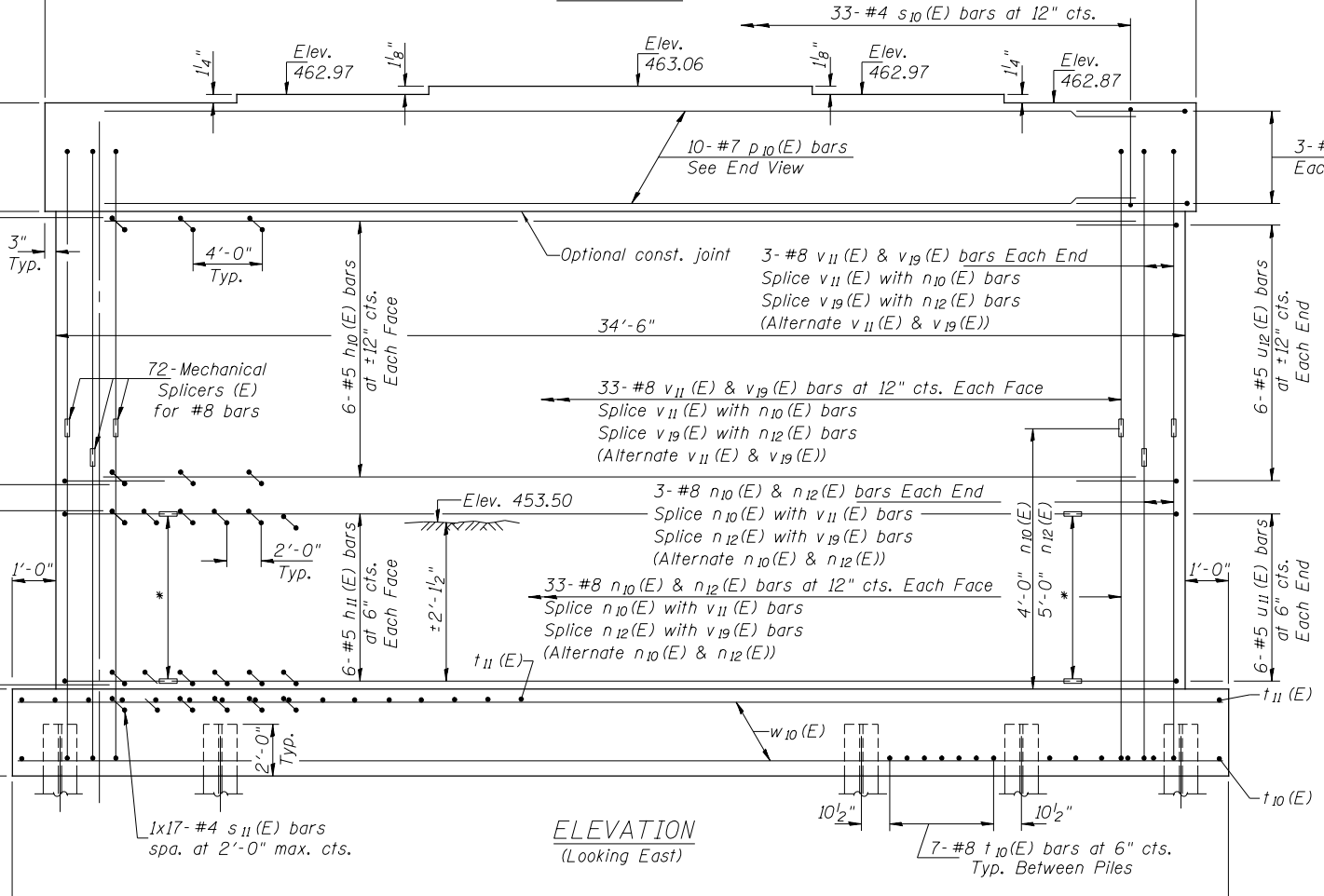
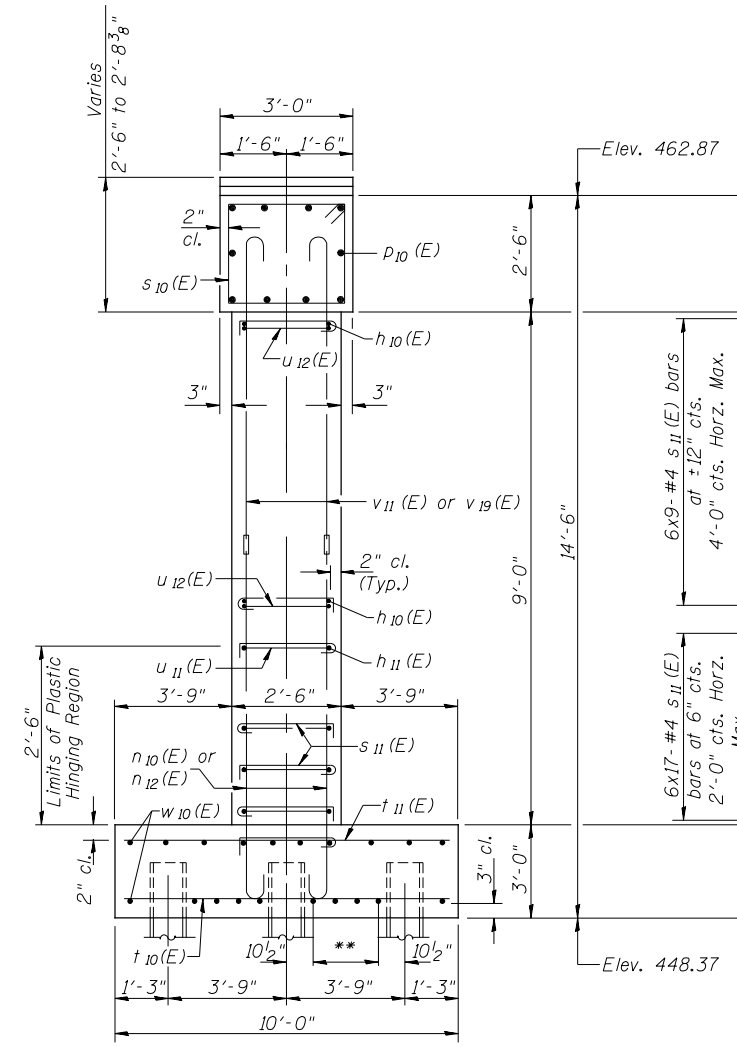
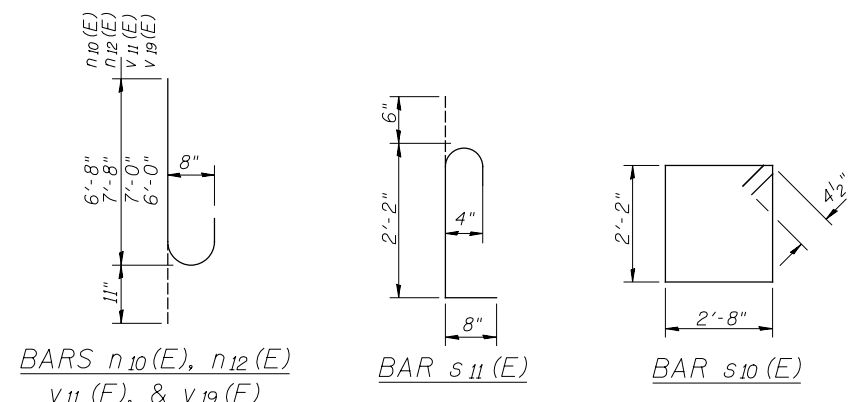
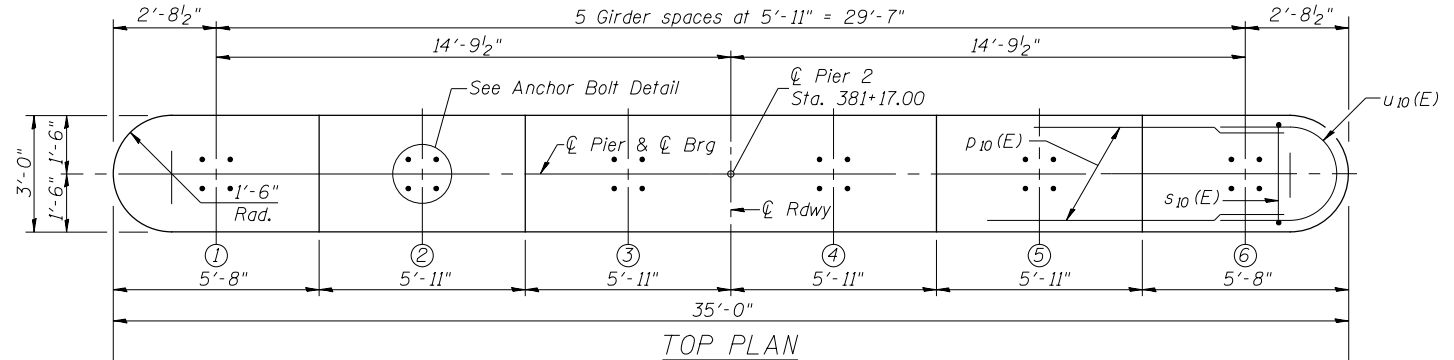
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PLOT SCALE = NONE	CHECKED - JOH	REVISED -
PLOT DATE = 1/10/2017	DRAWN - TAC	REVISED -
	CHECKED - BAN	REVISED -

F.A.P. RTE. 793	SECTION (40,112)BR-1	COUNTY BOND	TOTAL SHEETS 95	SHEET NO. 58
			CONTRACT NO. 76967	
ILLINOIS FED. AID PROJECT				

Notes:
 Space reinforcement in cap to miss anchor bolts.
 Pour steps monolithically with cap.
 For details of piles, see sheet 40 of 59.

PILE DATA

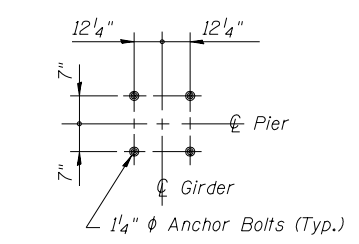
Type: Steel HP12x53
 Nominal Required Bearing: 419 kips
 Factored Resistance Available: 230 kips
 Est. Length: 57 Ft.
 No. Production Piles: 24



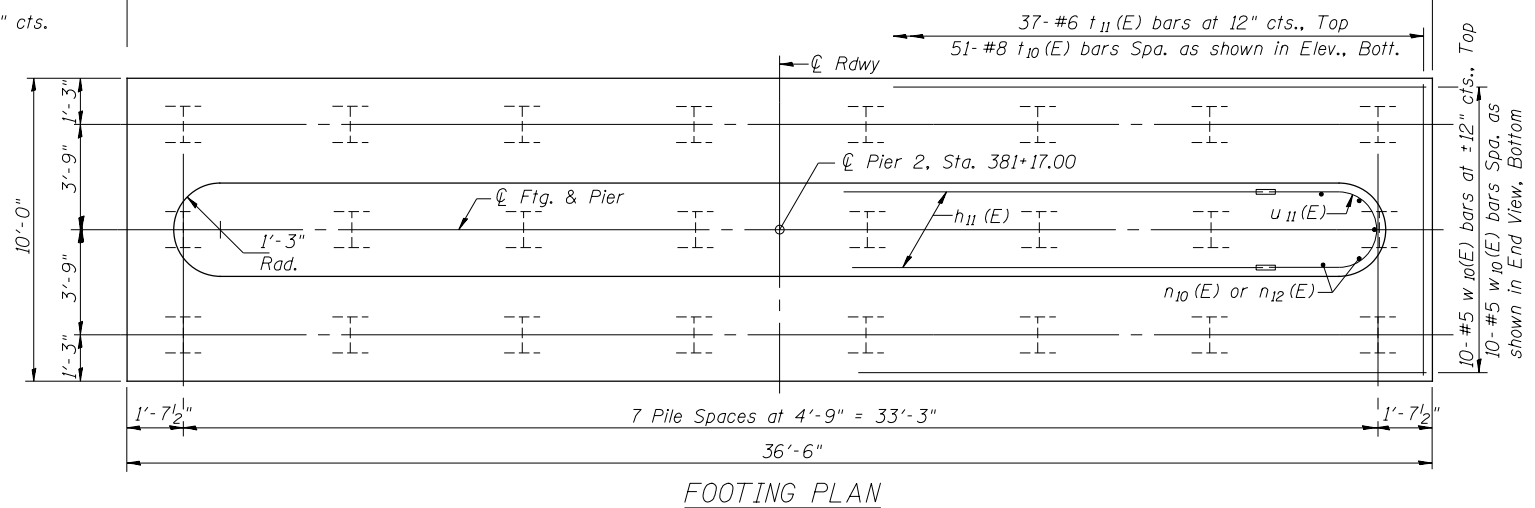
**PIER 2
 BILL OF MATERIAL**

Bar	No.	Size	Length	Shape
h ₁₀ (E)	12	#5	32'-0"	—
h ₁₁ (E)	12	#5	26'-6"	—
n ₁₀ (E)	36	#8	7'-7"	U
n ₁₂ (E)	36	#8	8'-7"	U
p ₁₀ (E)	10	#7	32'-0"	—
s ₁₀ (E)	33	#4	10'-5"	□
s ₁₁ (E)	173	#4	3'-4"	C
t ₁₀ (E)	51	#8	9'-9"	—
t ₁₁ (E)	37	#6	9'-9"	—
u ₁₀ (E)	6	#6	10'-9"	U
u ₁₁ (E)	12	#5	8'-9"	U
u ₁₂ (E)	12	#5	10'-5"	U
v ₁₁ (E)	36	#8	7'-11"	U
v ₁₉ (E)	36	#8	6'-11"	U
w ₁₀ (E)	20	#5	36'-3"	—
Structure Excavation			Cu. Yd.	110
Concrete Structures			Cu. Yd.	78.8
Reinforcement Bars, Epoxy Coated			Pound	7,940
Furnishing Steel Piles HP12x53			Foot	1,368
Driving Piles			Foot	1,368
Mechanical Splicers			Each	96

END VIEW **4-#5 w₁₀(E) bars at 8" cts. Typ. Between Piles



ANCHOR BOLT DETAIL



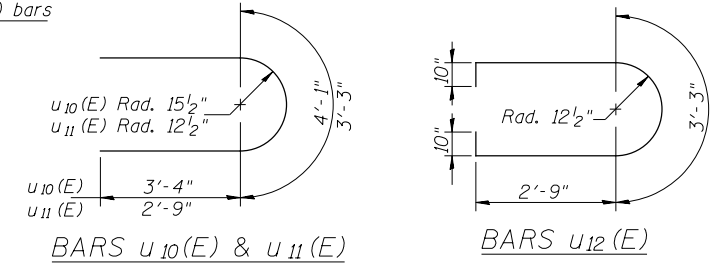
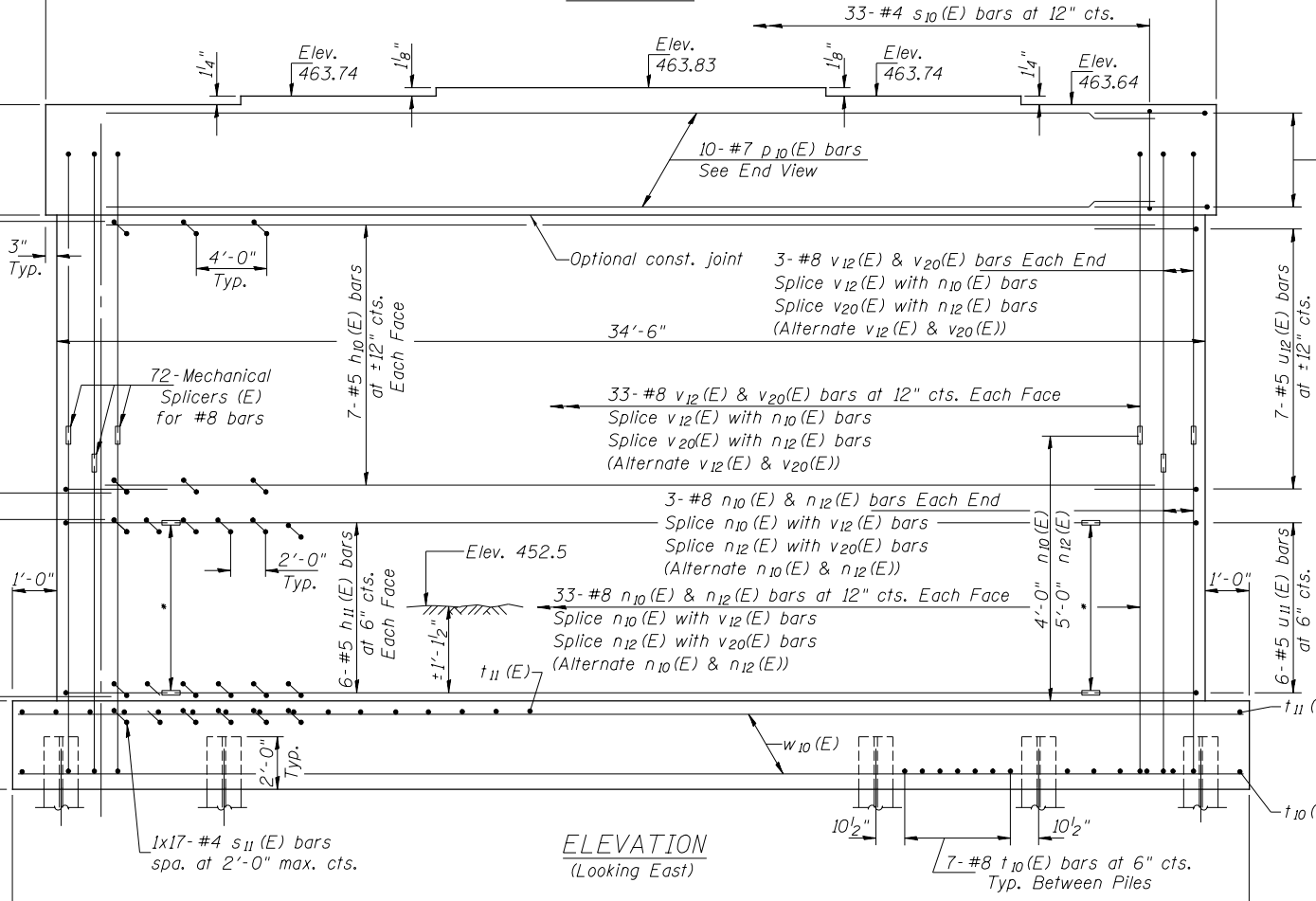
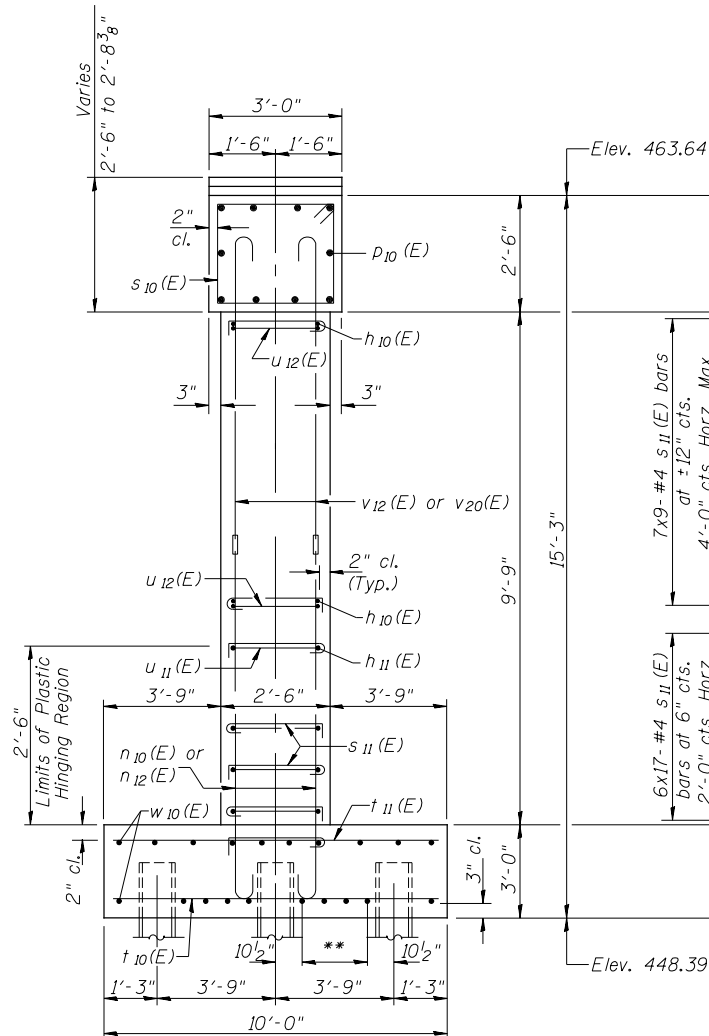
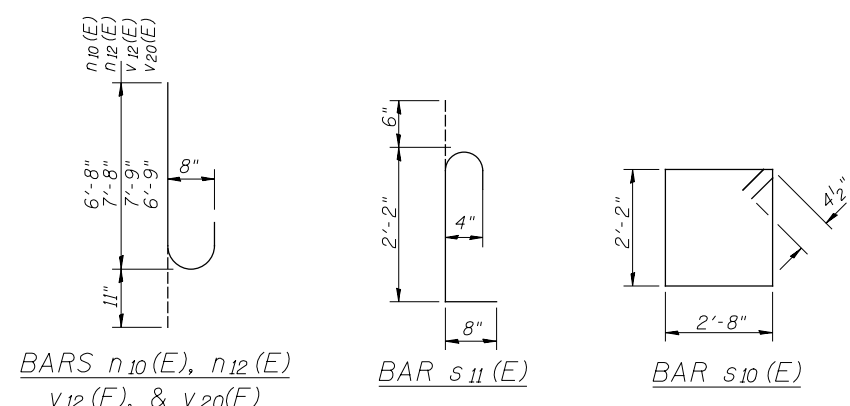
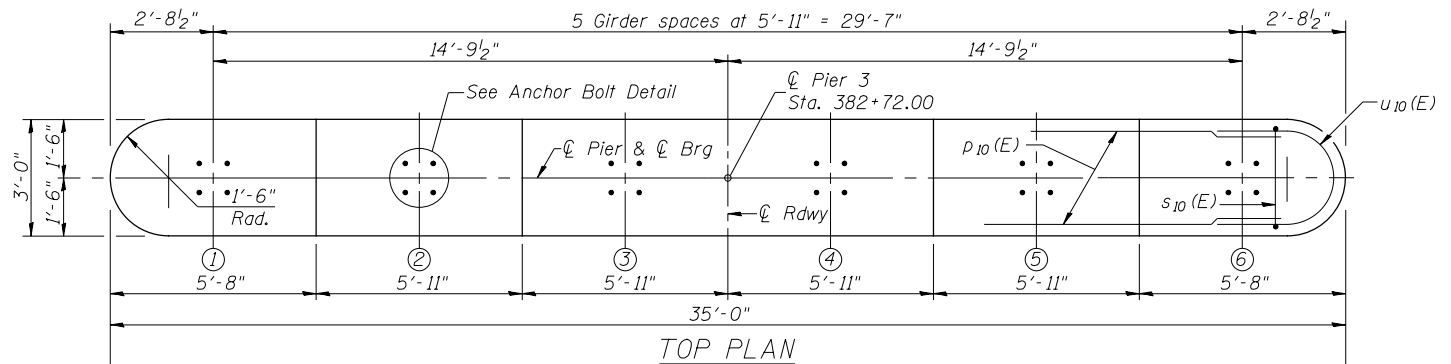
FOOTING PLAN

* 6-Mechanical Splicers or shop welded splicer per AWS D1.4 on horizontal bars. (Each Face, Each End)

Notes:
 Space reinforcement in cap to miss anchor bolts.
 Four steps monolithically with cap.
 For details of piles, see sheet 40 of 59.

PILE DATA

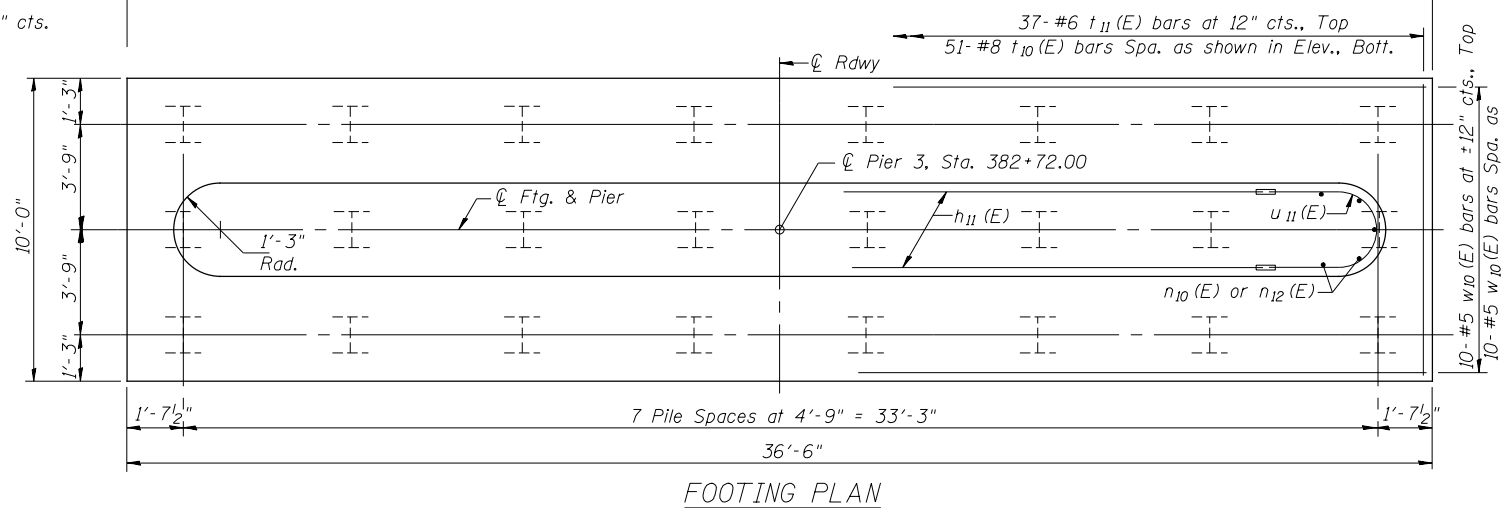
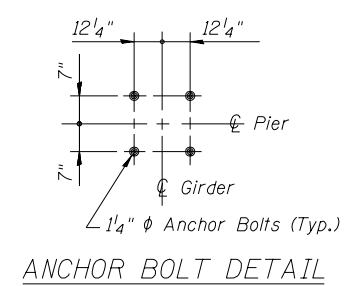
Type: Steel HP12x53
 Nominal Required Bearing: 419 kips
 Factored Resistance Available: 230 kips
 Est. Length: 57 Ft.
 No. Production Piles: 23
 No. Test Piles: 1



**PIER 3
 BILL OF MATERIAL**

Bar	No.	Size	Length	Shape
h ₁₀ (E)	14	#5	32'-0"	—
h ₁₁ (E)	12	#5	26'-6"	—
n ₁₀ (E)	36	#8	7'-7"	U
n ₁₂ (E)	36	#8	8'-7"	U
p ₁₀ (E)	10	#7	32'-0"	—
s ₁₀ (E)	33	#4	10'-5"	□
s ₁₁ (E)	182	#4	3'-4"	C
t ₁₀ (E)	51	#8	9'-9"	—
t ₁₁ (E)	37	#6	9'-9"	—
u ₁₀ (E)	6	#6	10'-9"	U
u ₁₁ (E)	12	#5	8'-9"	U
u ₁₂ (E)	14	#5	10'-5"	U
v ₁₂ (E)	36	#8	8'-8"	U
v ₂₀ (E)	36	#8	7'-8"	U
w ₁₀ (E)	20	#5	36'-3"	—
Structure Excavation			Cu. Yd.	85
Concrete Structures			Cu. Yd.	81.2
Reinforcement Bars, Epoxy Coated			Pound	8,200
Furnishing Steel Piles HP12x53			Foot	1,311
Driving Piles			Foot	1,311
Test Piles Steel HP12x53			Each	1
Mechanical Splicers			Each	96

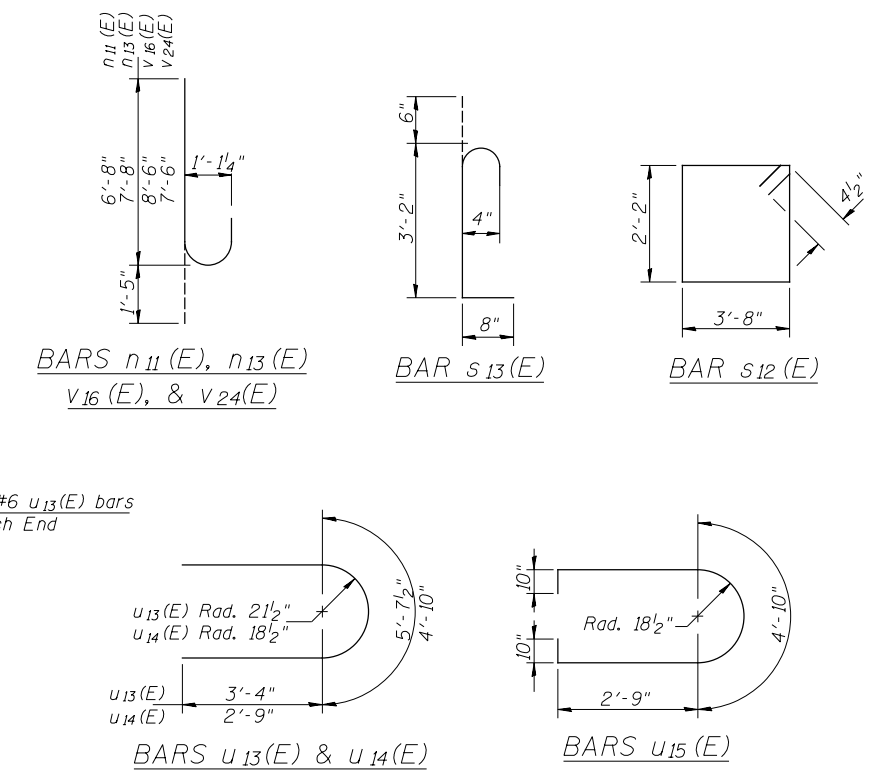
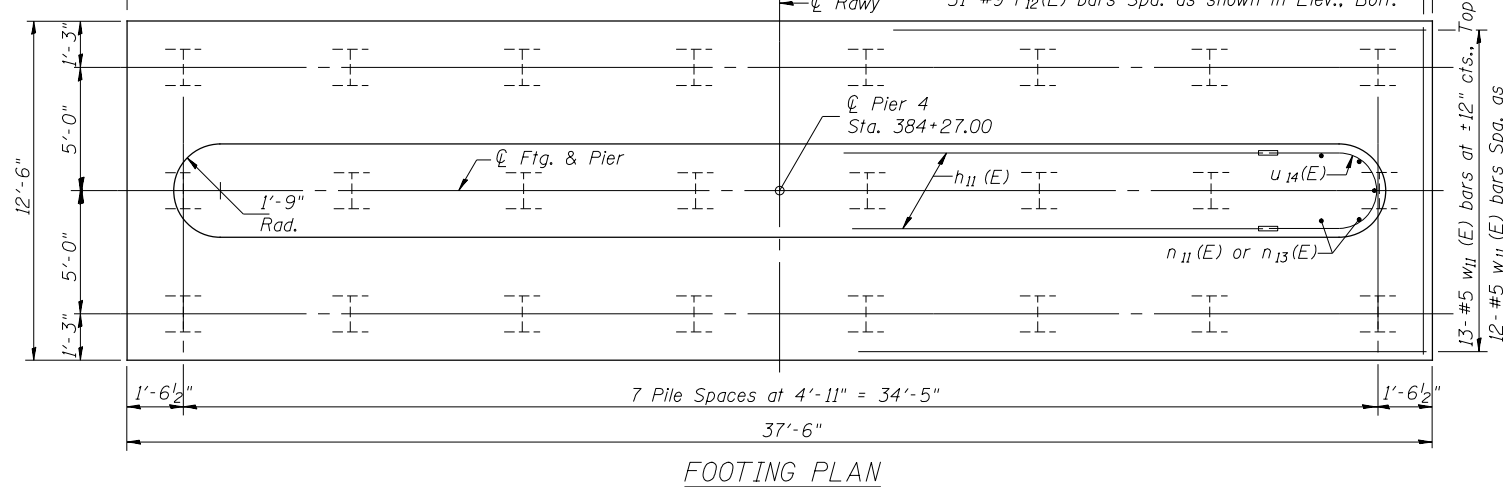
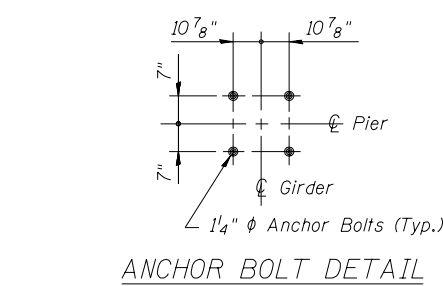
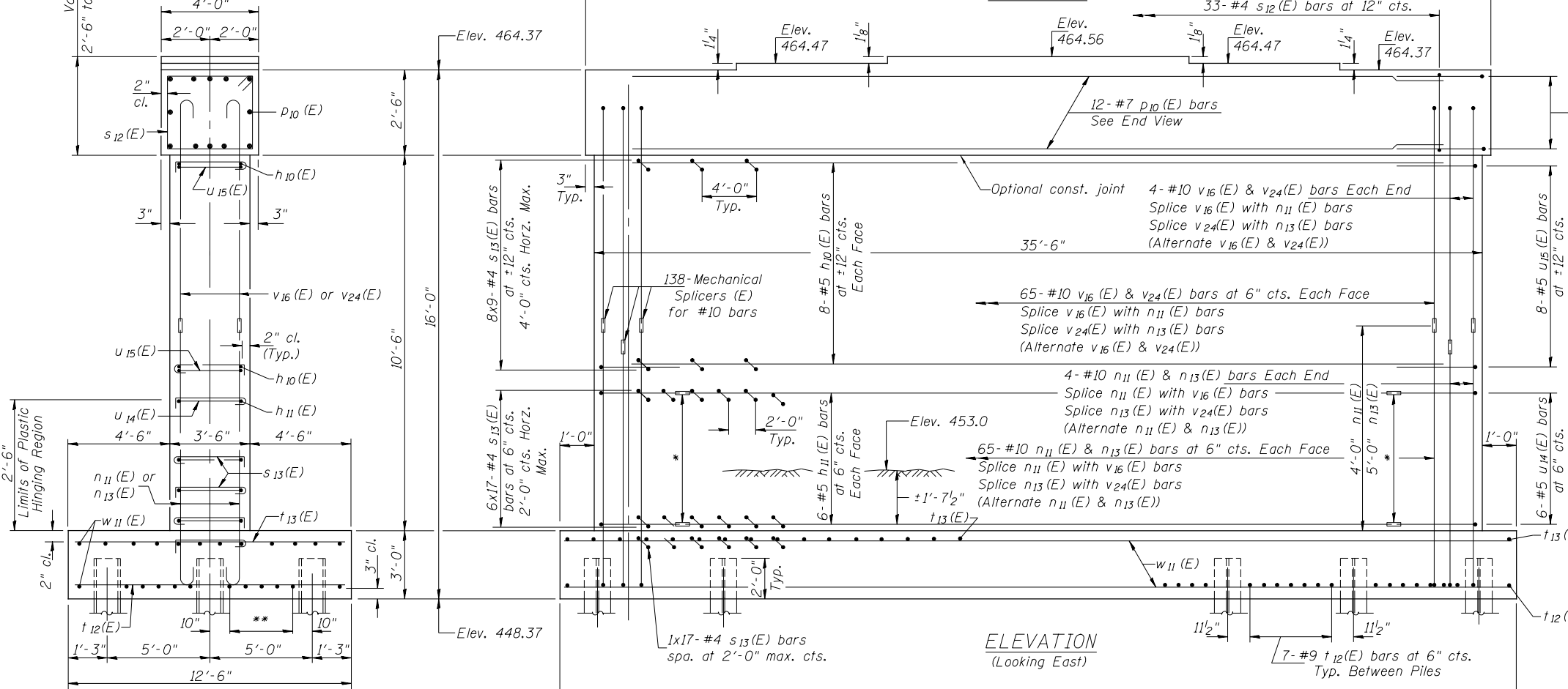
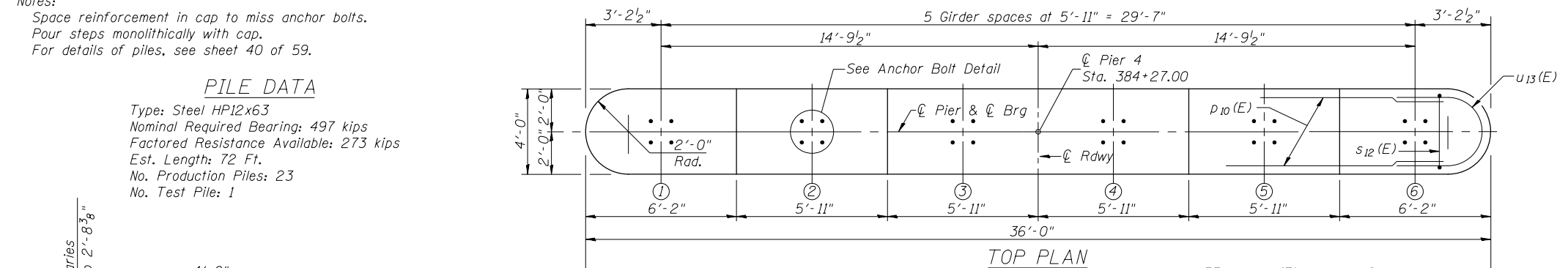
* 6-Mechanical Splicers or shop welded splicer per AWS D1.4 on horizontal bars. (Each Face, Each End)



Notes:
 Space reinforcement in cap to miss anchor bolts.
 Four steps monolithically with cap.
 For details of piles, see sheet 40 of 59.

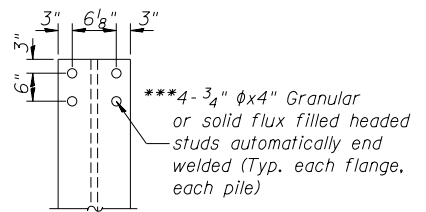
PILE DATA

Type: Steel HP12x63
 Nominal Required Bearing: 497 kips
 Factored Resistance Available: 273 kips
 Est. Length: 72 Ft.
 No. Production Piles: 23
 No. Test Pile: 1



**PIER 4
 BILL OF MATERIAL**

Bar	No.	Size	Length	Shape
h10(E)	16	#5	32'-0"	—
h11(E)	12	#5	26'-6"	—
n11(E)	69	#10	8'-1"	U
n13(E)	69	#10	9'-1"	U
p10(E)	12	#7	32'-0"	—
s12(E)	33	#4	12'-5"	□
s13(E)	191	#4	4'-4"	C
t12(E)	51	#9	12'-3"	—
t13(E)	51	#7	12'-3"	—
u13(E)	6	#6	12'-4"	U
u14(E)	12	#5	10'-4"	U
u15(E)	16	#5	12'-0"	U
v16(E)	69	#10	9'-11"	U
v24(E)	69	#10	8'-11"	U
w11(E)	25	#5	37'-3"	—
Structure Excavation		Cu. Yd.	120	
Concrete Structures		Cu. Yd.	112.9	
Reinforcement Bars, Epoxy Coated		Pound	17,980	
Furnishing Steel Piles HP12x63		Foot	1,656	
Driving Piles		Foot	1,656	
Test Pile Steel HP12x63		Each	1	
Mechanical Splicers		Each	162	



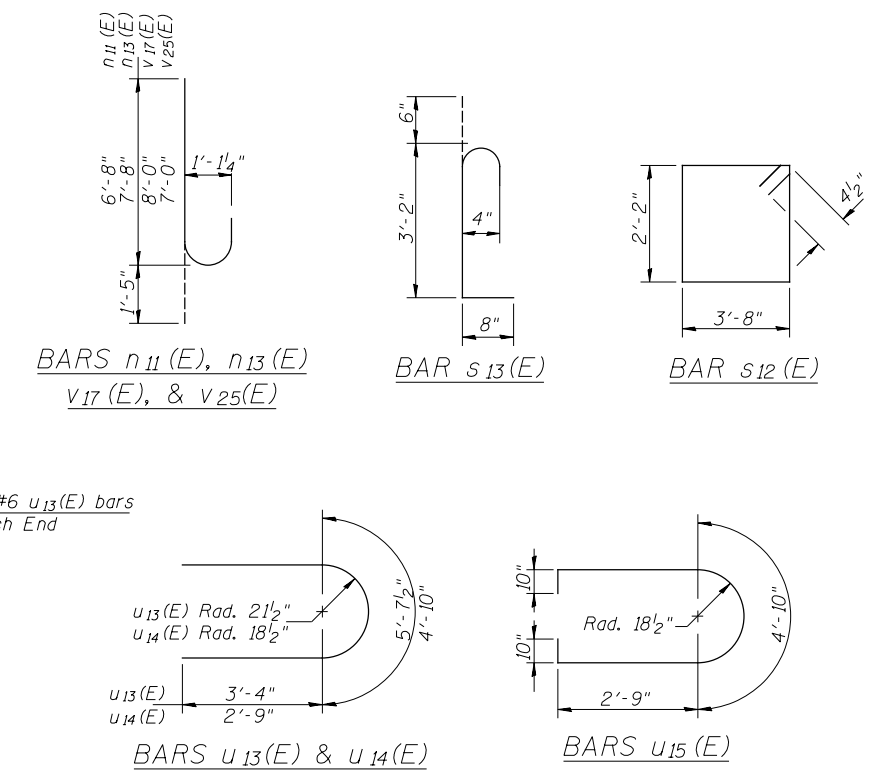
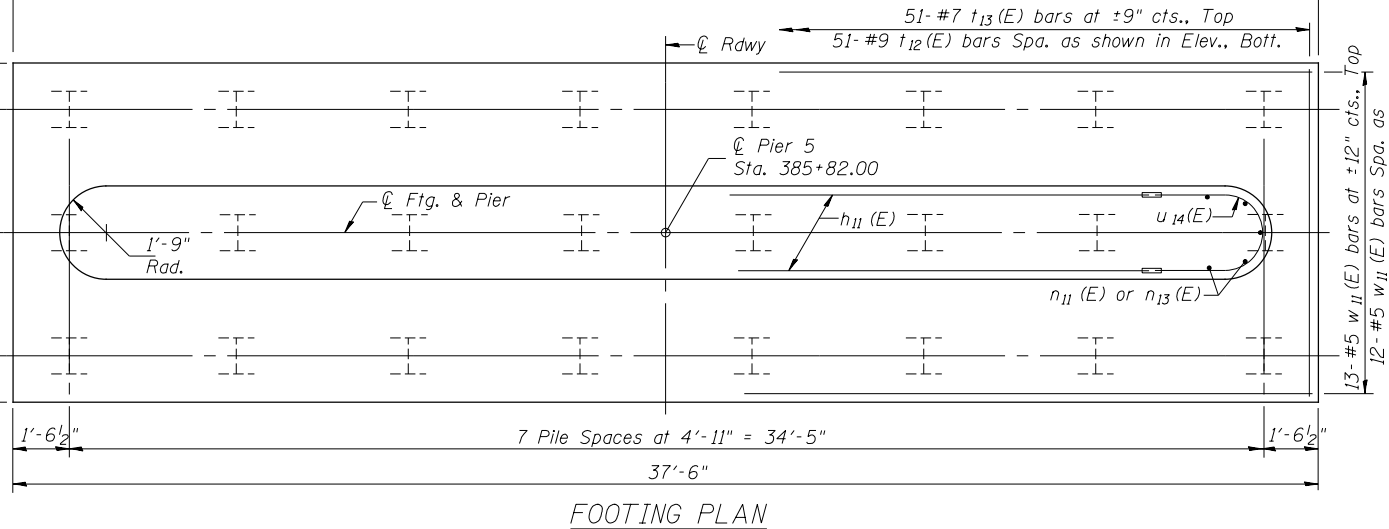
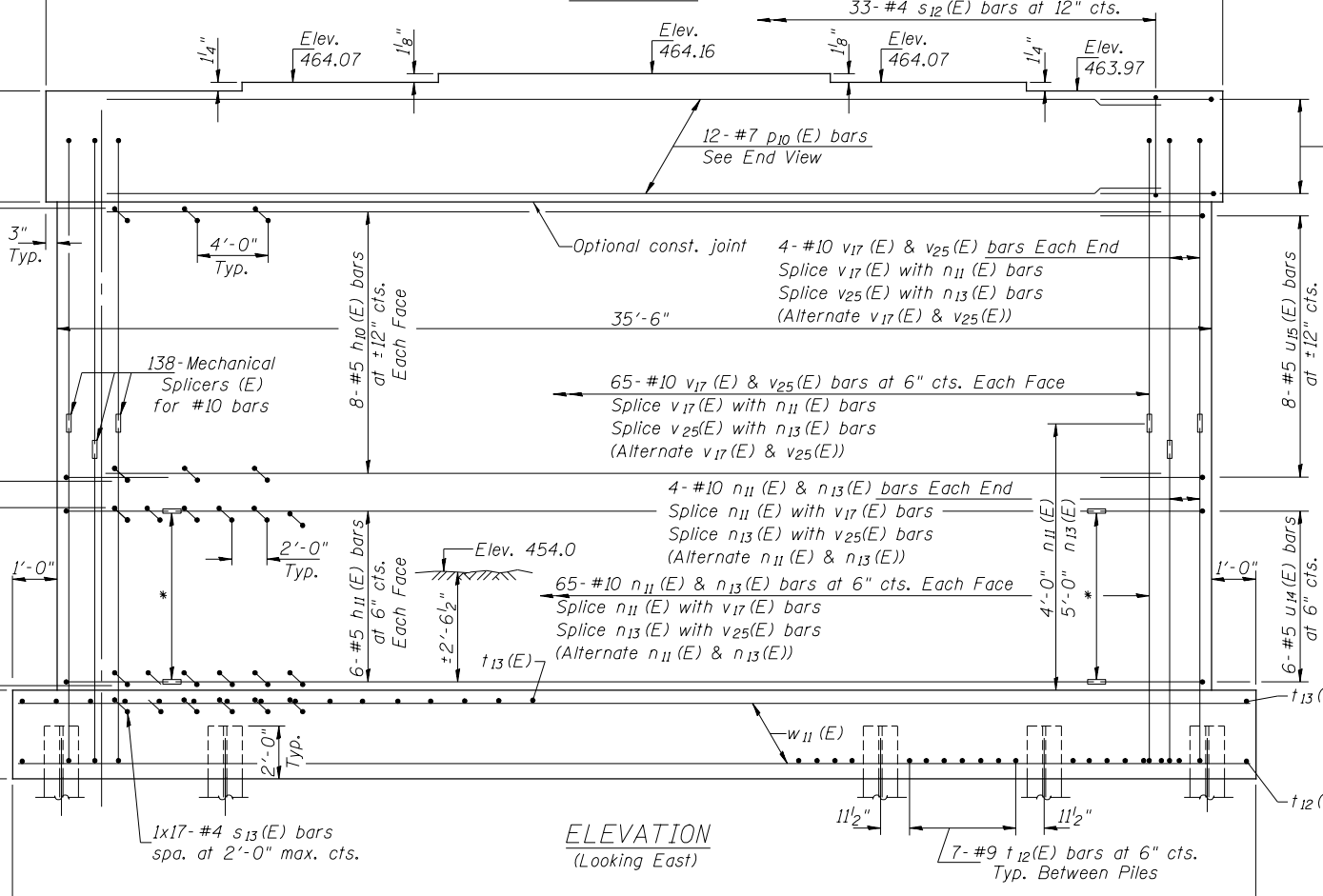
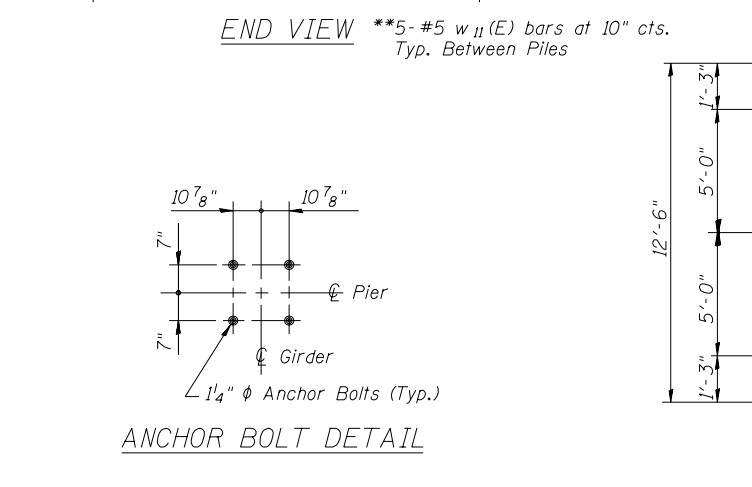
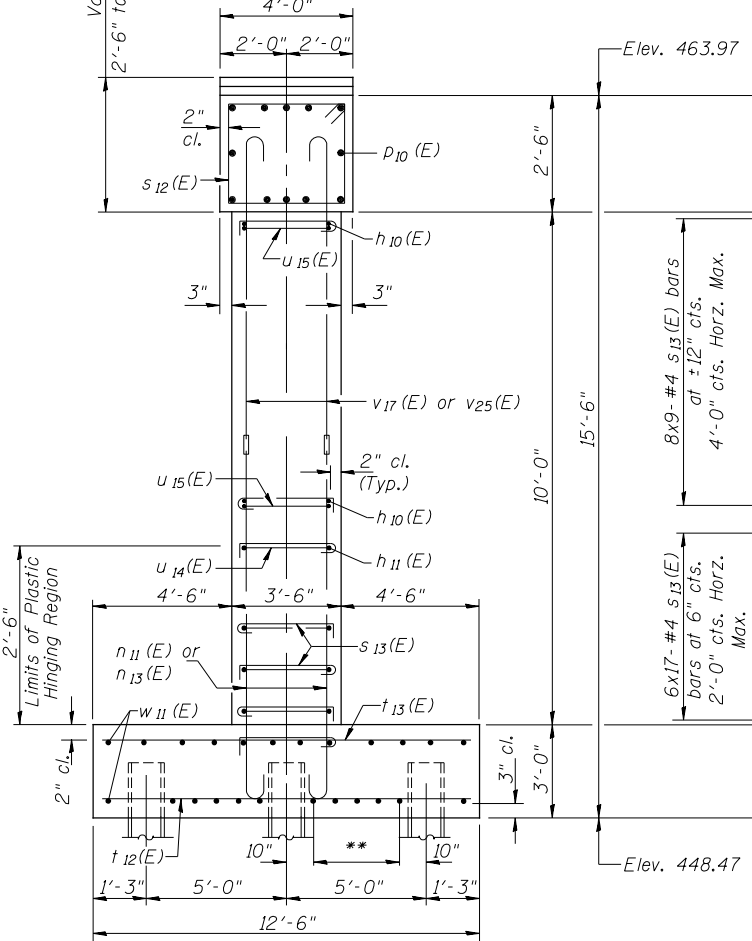
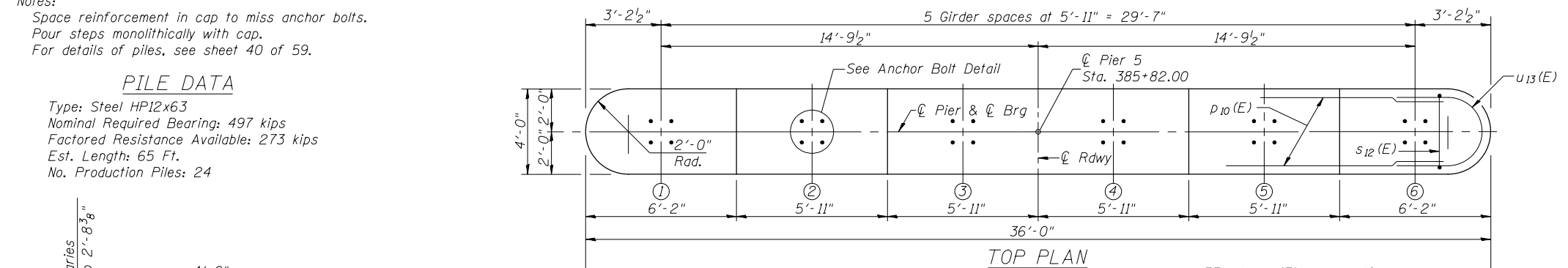
***Typical each flange, each pile.
 Cost included with Furnishing Piles.

* 6-Mechanical Splicers or shop welded splicer per AWS D1.4 on horizontal bars. (Each Face, Each End)

Notes:
 Space reinforcement in cap to miss anchor bolts.
 Pour steps monolithically with cap.
 For details of piles, see sheet 40 of 59.

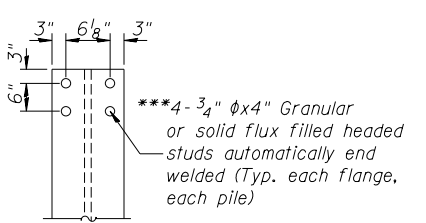
PILE DATA

Type: Steel HP12x63
 Nominal Required Bearing: 497 kips
 Factored Resistance Available: 273 kips
 Est. Length: 65 Ft.
 No. Production Piles: 24



**PIER 5
 BILL OF MATERIAL**

Bar	No.	Size	Length	Shape
h ₁₀ (E)	16	#5	32'-0"	—
h ₁₁ (E)	12	#5	26'-6"	—
n ₁₁ (E)	69	#10	8'-1"	U
n ₁₃ (E)	69	#10	9'-1"	U
p ₁₀ (E)	12	#7	32'-0"	—
s ₁₂ (E)	33	#4	12'-5"	□
s ₁₃ (E)	191	#4	4'-4"	C
t ₁₂ (E)	51	#9	12'-3"	—
t ₁₃ (E)	51	#7	12'-3"	—
u ₁₃ (E)	6	#6	12'-4"	U
u ₁₄ (E)	12	#5	10'-4"	U
u ₁₅ (E)	16	#5	12'-0"	U
v ₁₇ (E)	69	#10	9'-5"	U
v ₂₅ (E)	69	#10	8'-5"	U
w ₁₁ (E)	25	#5	37'-3"	—
Structure Excavation			Cu. Yd.	140
Concrete Structures			Cu. Yd.	110.7
Reinforcement Bars, Epoxy Coated			Pound	17,680
Furnishing Steel Piles HP12x63			Foot	1,560
Driving Piles			Foot	1,560
Mechanical Splicers			Each	162



***Typical each flange, each pile.
 Cost included with Furnishing Piles.

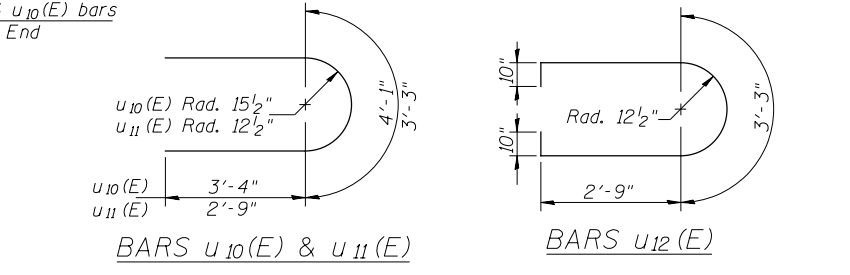
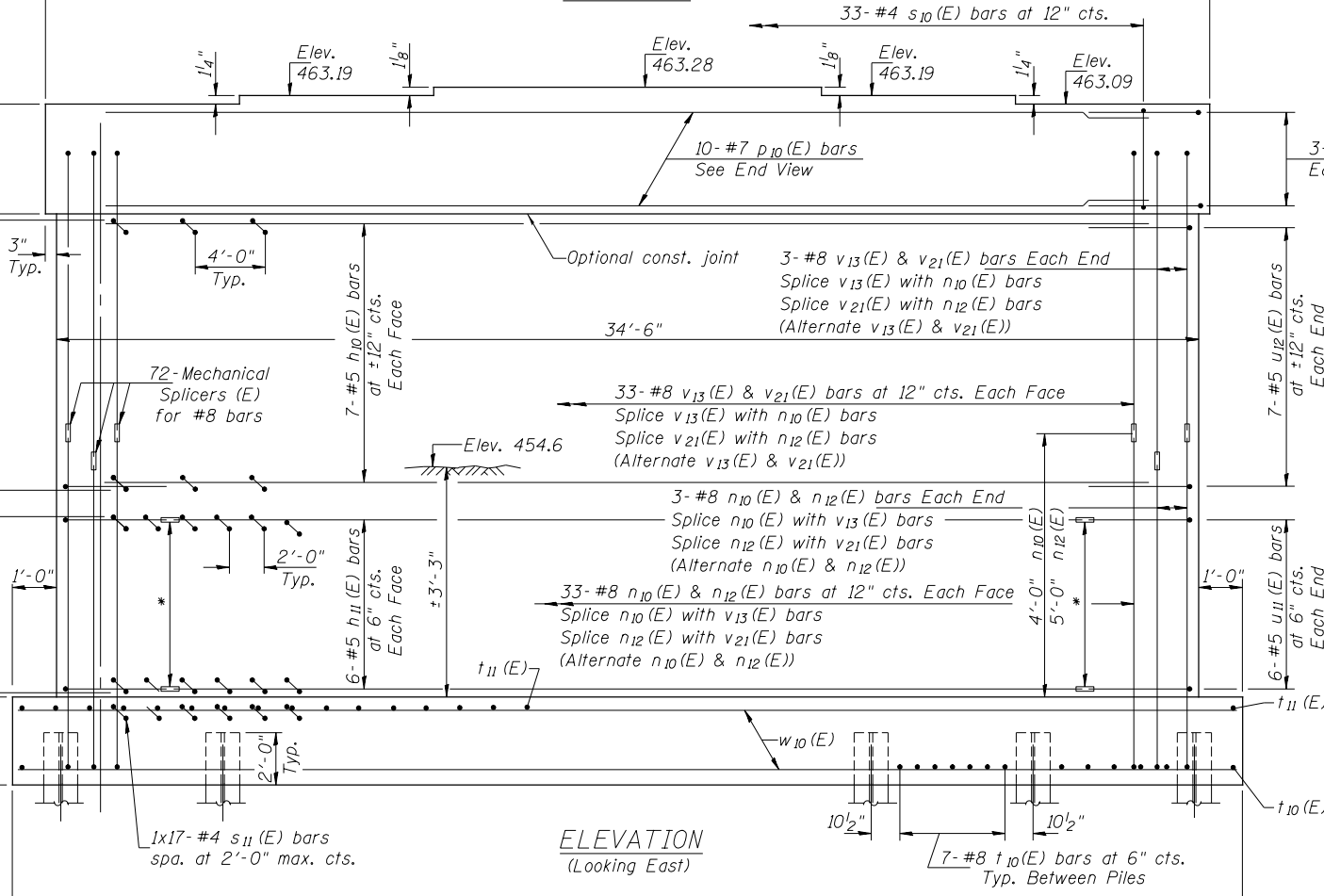
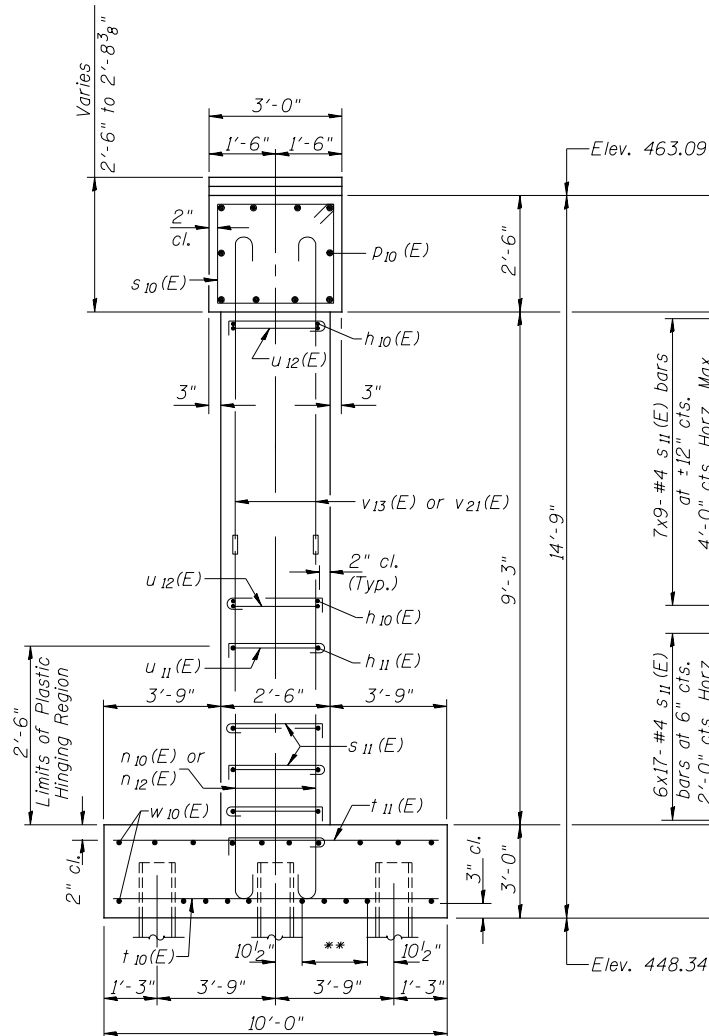
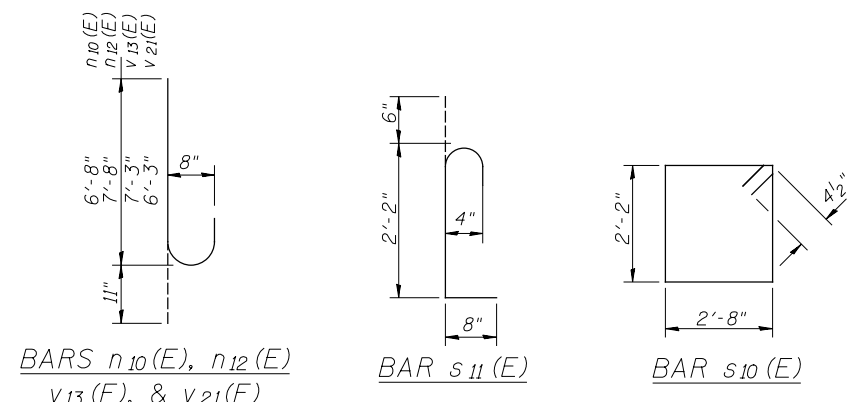
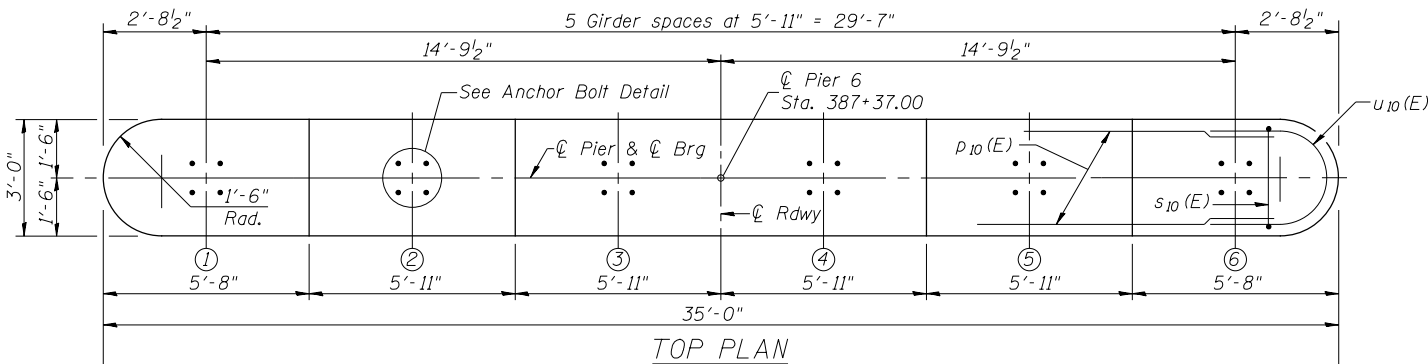
* 6-Mechanical Splicers or shop welded splicer per AWS D1.4 on horizontal bars. (Each Face, Each End)

V:\Bridge\3890-Bond\SHOAL CR\0030062-76967-036-PIER 5.dgn

Notes:
 Space reinforcement in cap to miss anchor bolts.
 Four steps monolithically with cap.
 For details of piles, see sheet 40 of 59.

PILE DATA

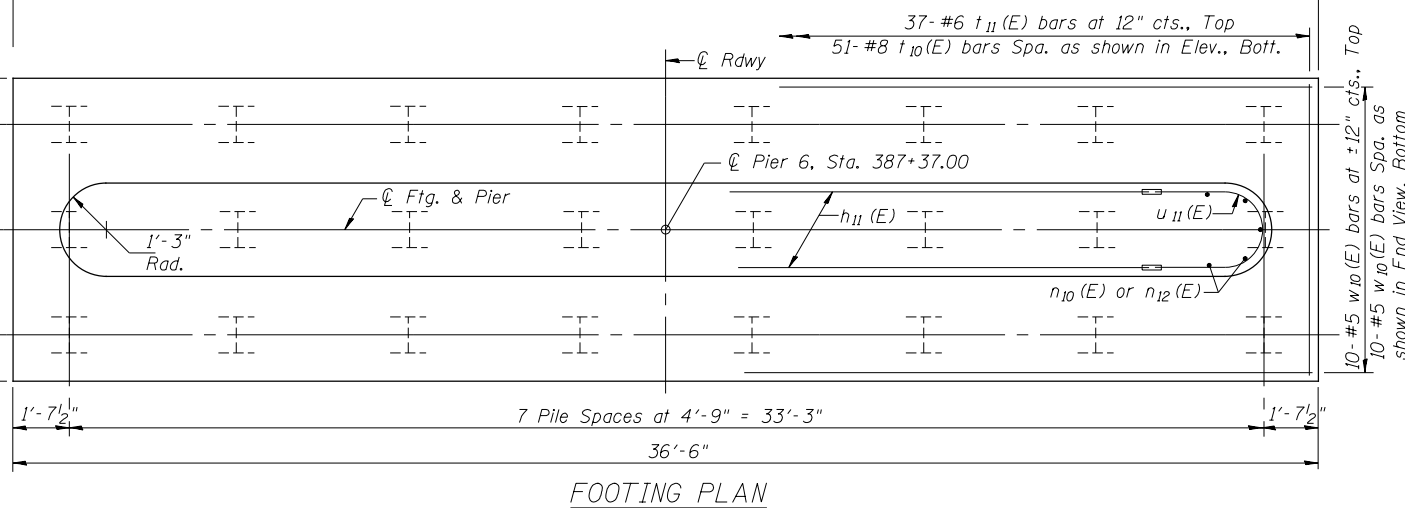
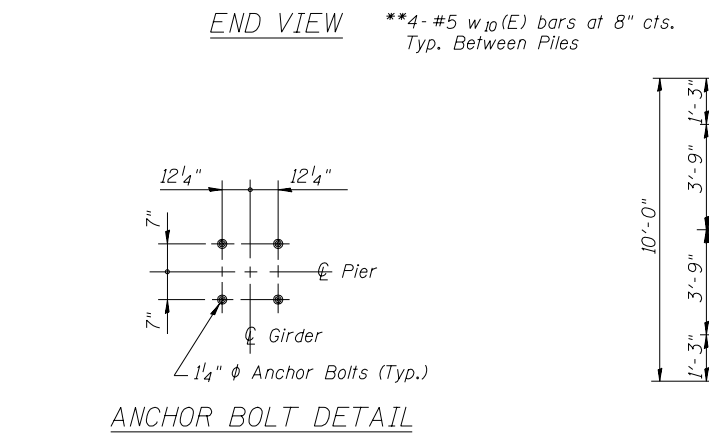
Type: Steel HP12x53
 Nominal Required Bearing: 419 kips
 Factored Resistance Available: 230 kips
 Est. Length: 66 Ft.
 No. Production Piles: 24



**PIER 6
 BILL OF MATERIAL**

Bar	No.	Size	Length	Shape
h ₁₀ (E)	14	#5	32'-0"	—
h ₁₁ (E)	12	#5	26'-6"	—
n ₁₀ (E)	36	#8	7'-7"	U
n ₁₂ (E)	36	#8	8'-7"	U
p ₁₀ (E)	10	#7	32'-0"	—
s ₁₀ (E)	33	#4	10'-5"	□
s ₁₁ (E)	182	#4	3'-4"	C
t ₁₀ (E)	51	#8	9'-9"	—
t ₁₁ (E)	37	#6	9'-9"	—
u ₁₀ (E)	6	#6	10'-9"	U
u ₁₁ (E)	12	#5	8'-9"	U
u ₁₂ (E)	14	#5	10'-5"	U
v ₁₃ (E)	36	#8	8'-2"	U
v ₂₁ (E)	36	#8	7'-2"	U
w ₁₀ (E)	20	#5	36'-3"	—
Structure Excavation			Cu. Yd.	130
Concrete Structures			Cu. Yd.	79.6
Reinforcement Bars, Epoxy Coated			Pound	8,100
Furnishing Steel Piles HP12x53			Foot	1,584
Driving Piles			Foot	1,584
Mechanical Splicers			Each	96

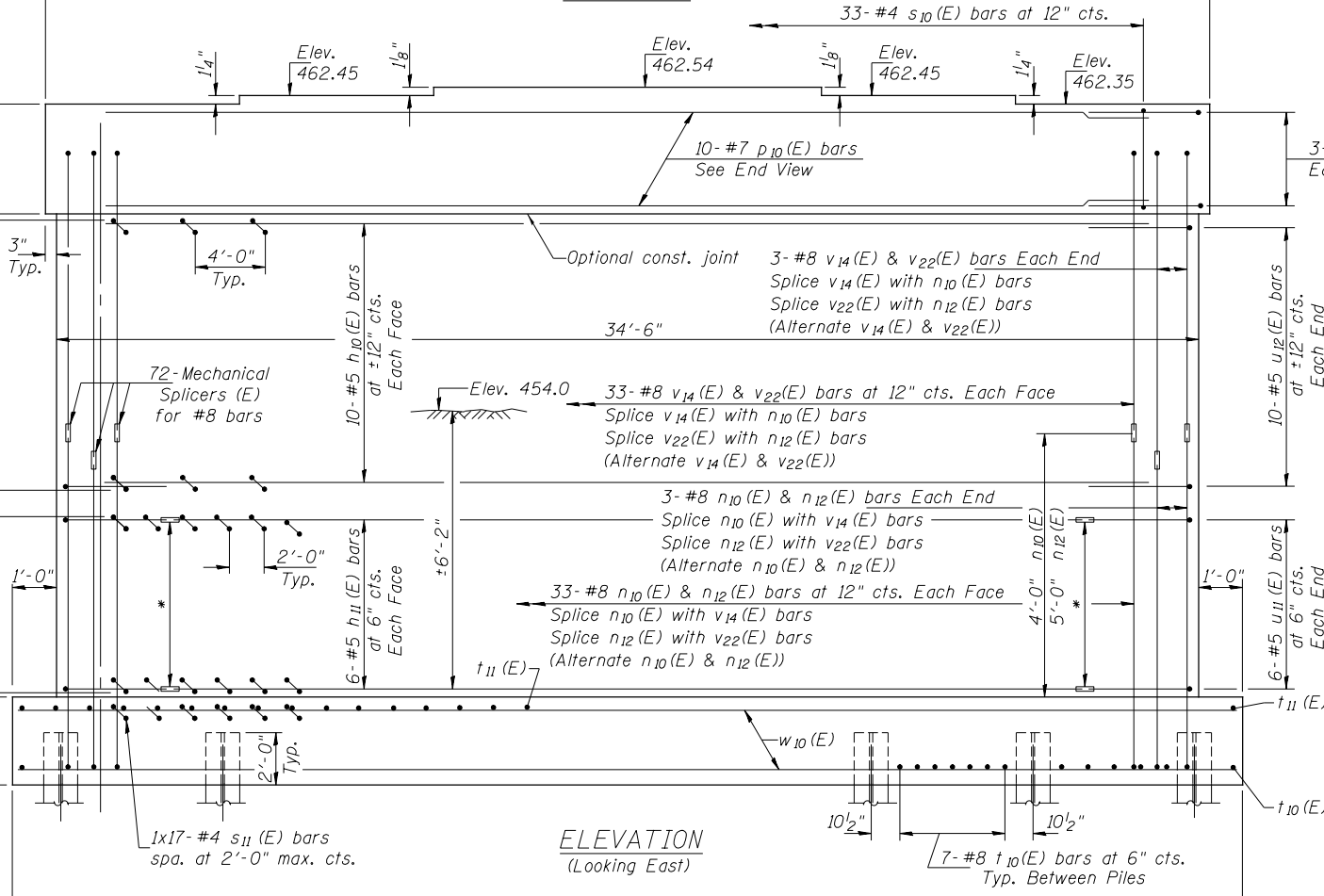
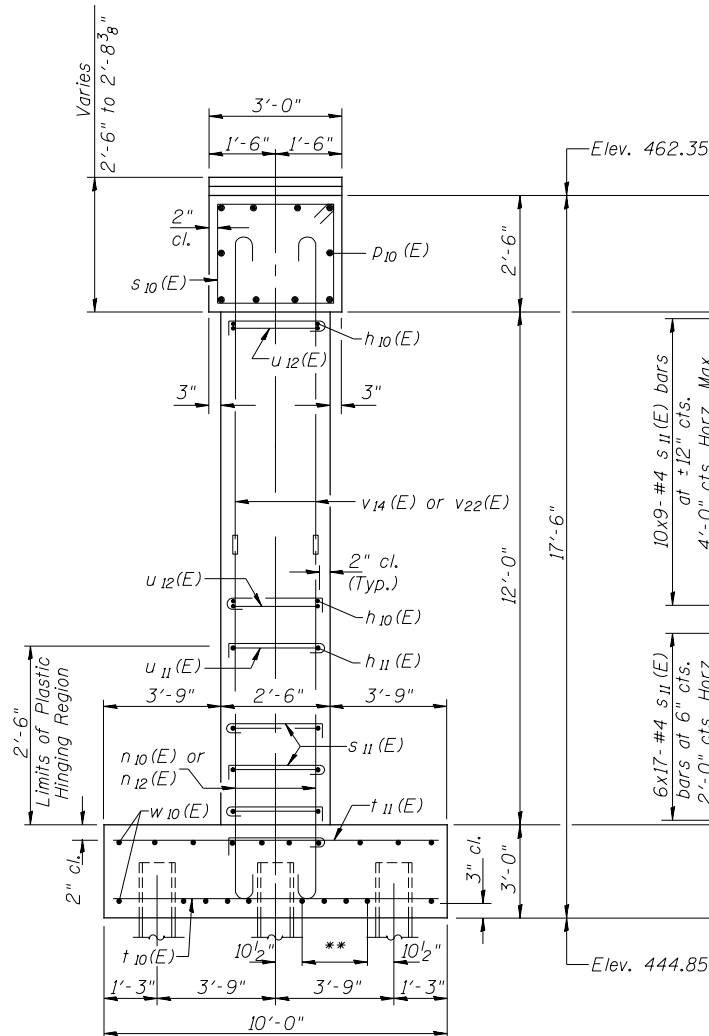
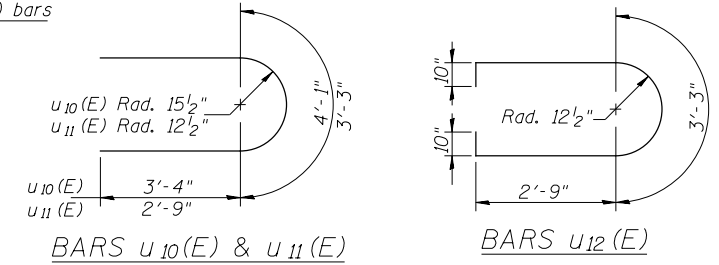
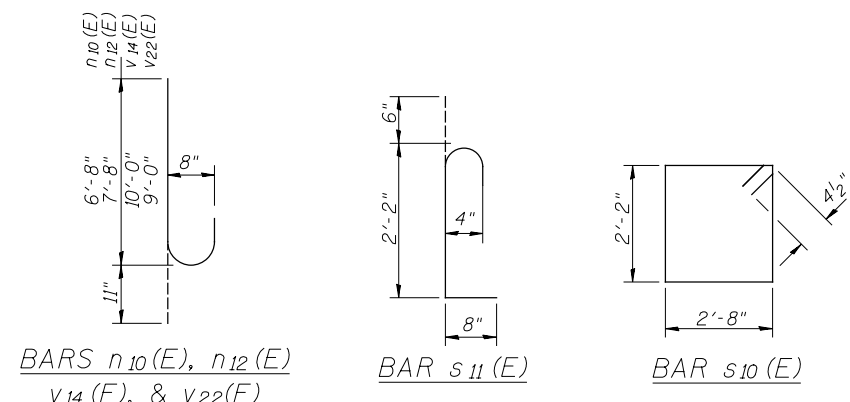
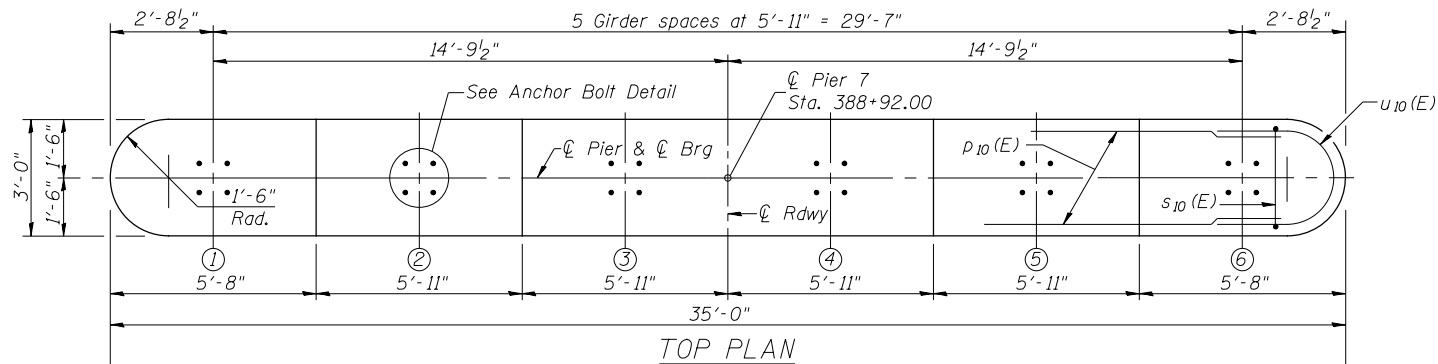
* 6-Mechanical Splicers or shop welded splicer per AWS D1.4 on horizontal bars. (Each Face, Each End)



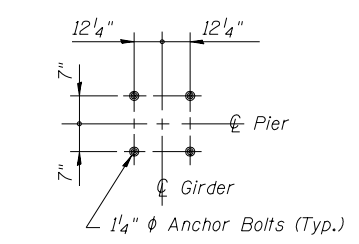
Notes:
 Space reinforcement in cap to miss anchor bolts.
 Four steps monolithically with cap.
 For details of piles, see sheet 40 of 59.

PILE DATA

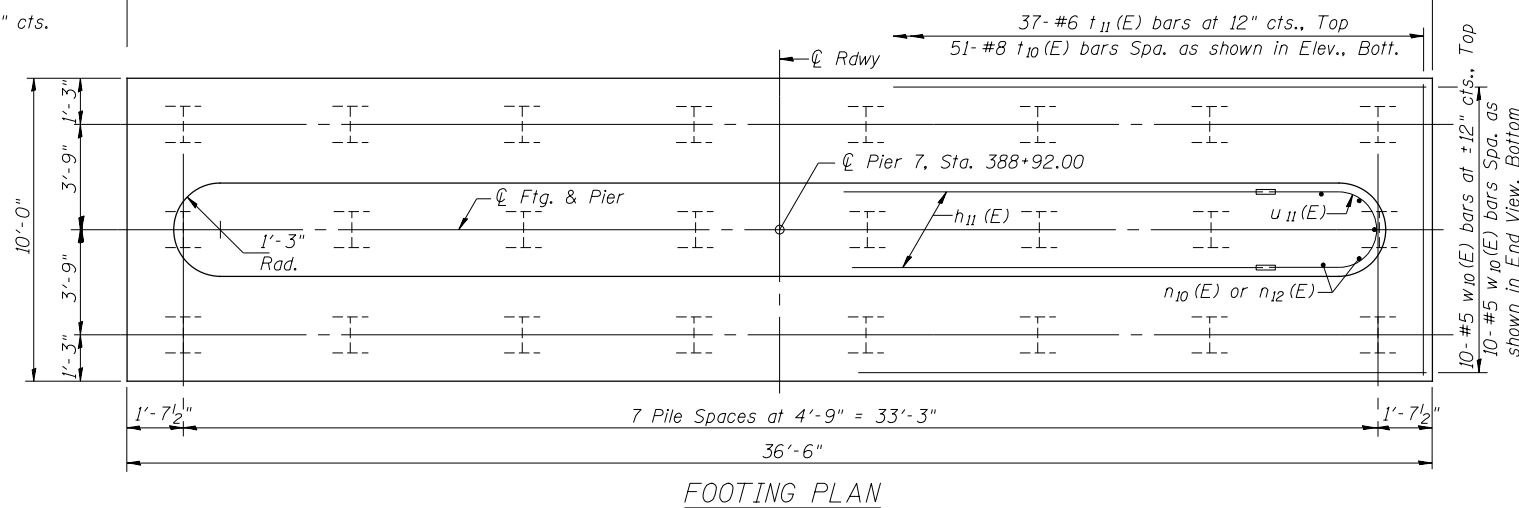
Type: Steel HP12x53
 Nominal Required Bearing: 419 kips
 Factored Resistance Available: 230 kips
 Est. Length: 52 Ft.
 No. Production Piles: 23
 No. Test Piles: 1



END VIEW **4-#5 w10(E) bars at 8" cts. Typ. Between Piles



ANCHOR BOLT DETAIL



**PIER 7
 BILL OF MATERIAL**

Bar	No.	Size	Length	Shape
h10(E)	20	#5	32'-0"	—
h11(E)	12	#5	26'-6"	—
n10(E)	36	#8	7'-7"	U
n12(E)	36	#8	8'-7"	U
p10(E)	10	#7	32'-0"	—
s10(E)	33	#4	10'-5"	□
s11(E)	209	#4	3'-4"	C
t10(E)	51	#8	9'-9"	—
t11(E)	37	#6	9'-9"	—
u10(E)	6	#6	10'-9"	U
u11(E)	12	#5	8'-9"	U
u12(E)	20	#5	10'-5"	U
v14(E)	36	#8	10'-11"	U
v22(E)	36	#8	9'-11"	U
w10(E)	20	#5	36'-3"	—
Structure Excavation			Cu. Yd.	195
Concrete Structures			Cu. Yd.	88.2
Reinforcement Bars, Epoxy Coated			Pound	8,950
Furnishing Steel Piles HP12x53			Foot	1,196
Driving Piles			Foot	1,196
Test Pile Steel, HP12x53			Each	1
Mechanical Splicers			Each	96

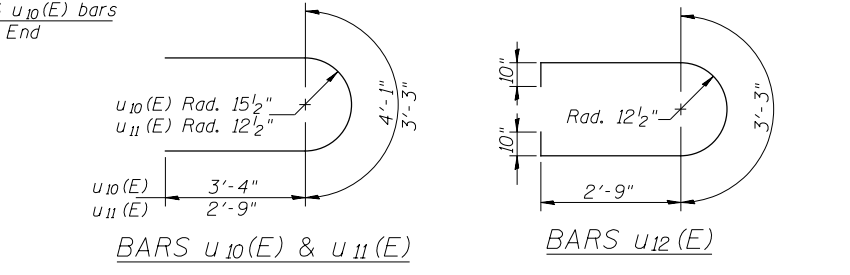
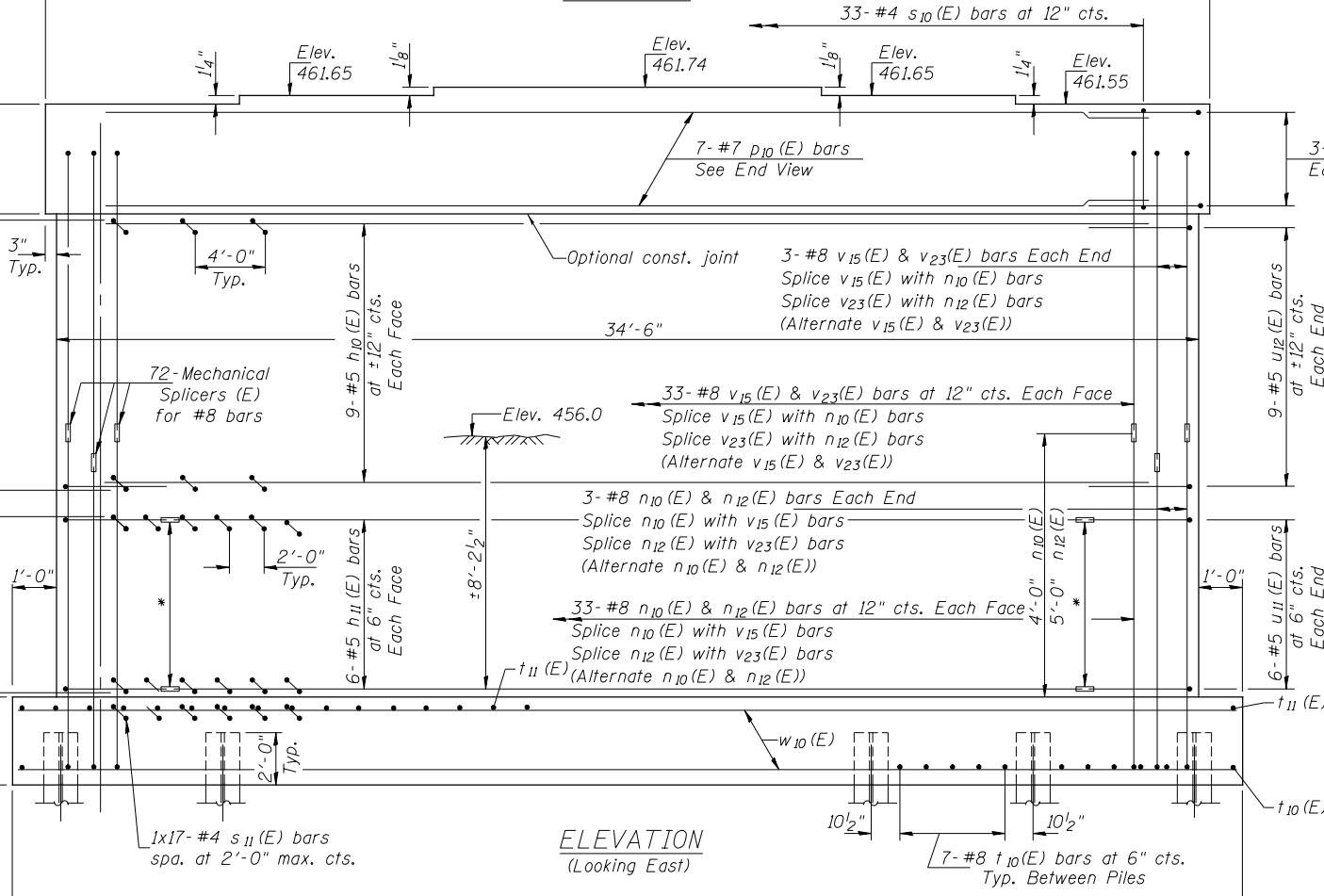
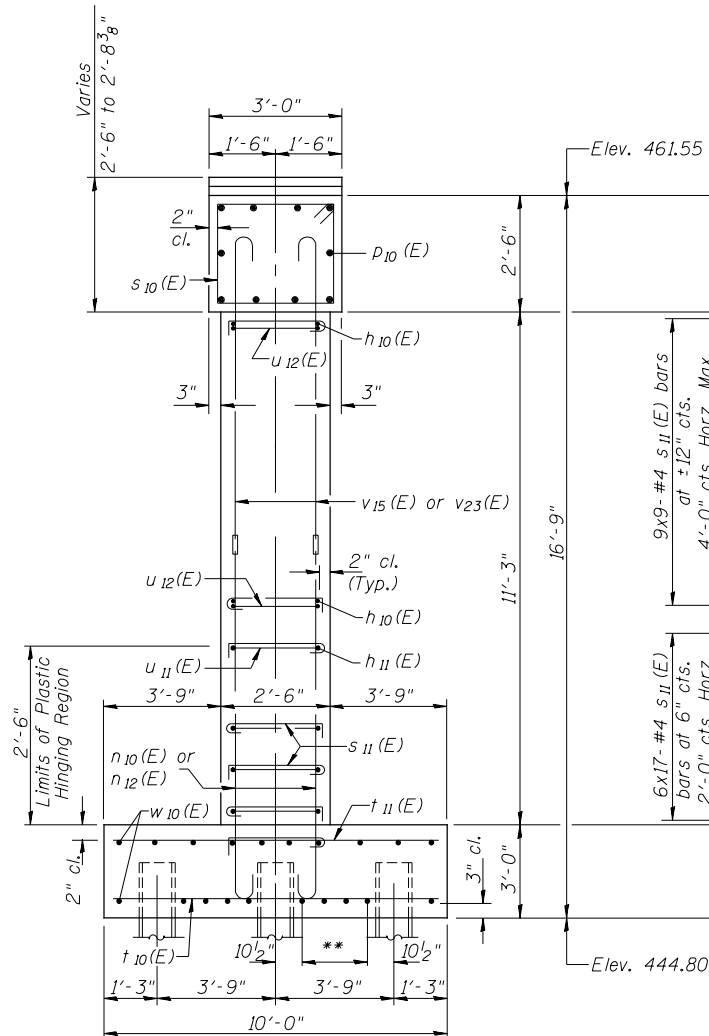
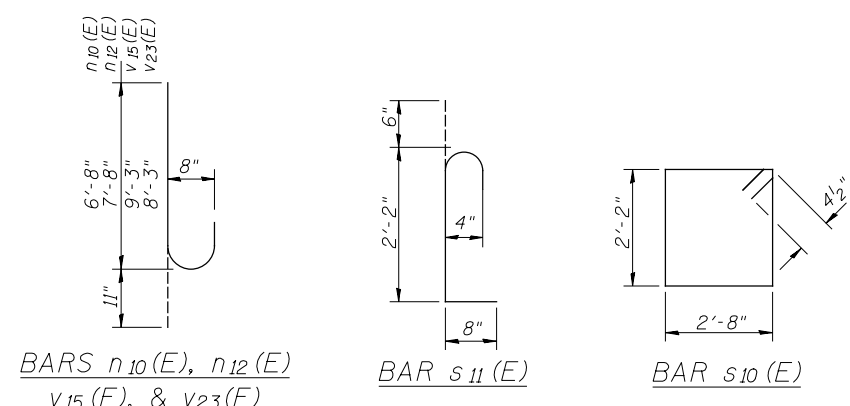
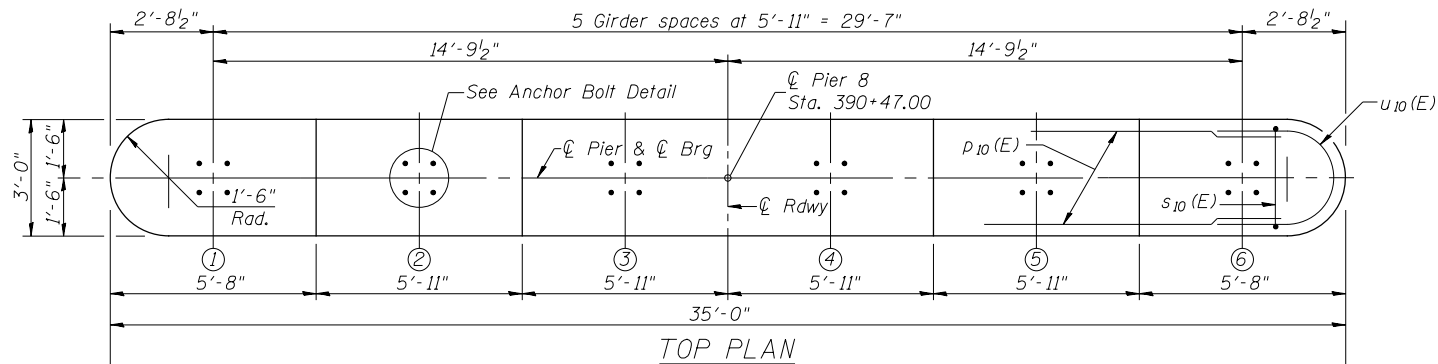
* 6-Mechanical Splicers or shop welded splicer per AWS D1.4 on horizontal bars. (Each Face, Each End)

Hutchison Engineering, Inc. Jacksonville, Peoria & Shorewood, Illinois	USER NAME =	DESIGNED - BAN	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	PIER 7 STRUCTURE NO. 003-0062	F.A.P. RTE. 793	SECTION (40,112)BR-1	COUNTY BOND	TOTAL SHEETS 95	SHEET NO. 64
	PLOT SCALE = NONE	CHECKED - JOH	REVISED -			CONTRACT NO. 76967				
	PLOT DATE = 1/10/2017	DRAWN - TAC	REVISED -			ILLINOIS FED. AID PROJECT				
	CHECKED - BAN	REVISED -								

Notes:
 Space reinforcement in cap to miss anchor bolts.
 Four steps monolithically with cap.
 For details of piles, see sheet 40 of 59.

PILE DATA

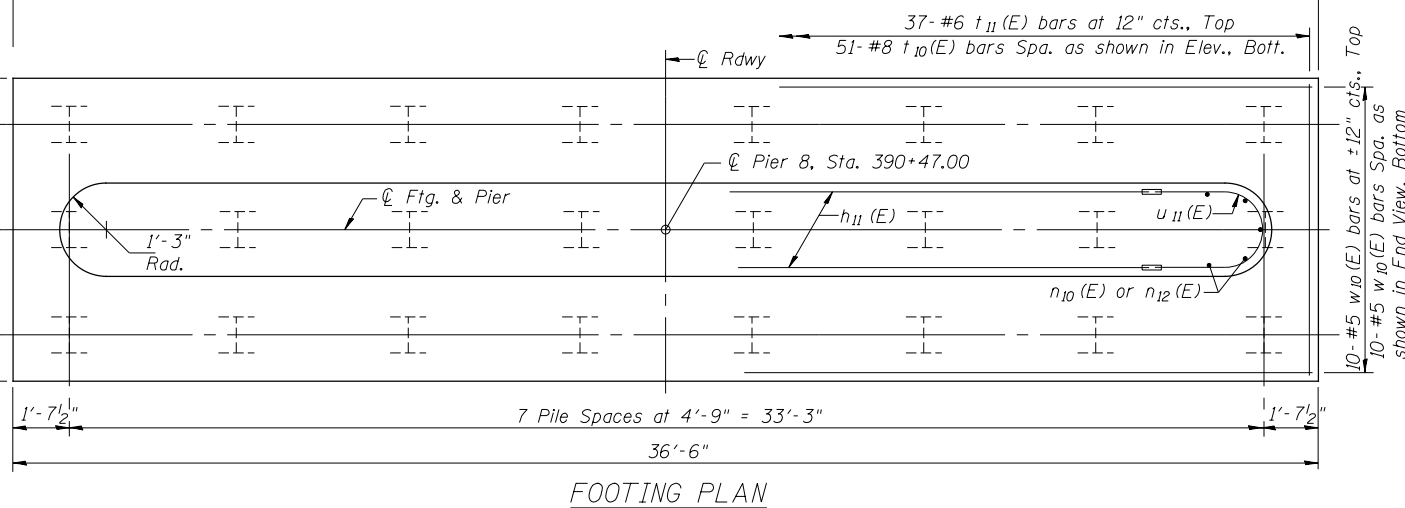
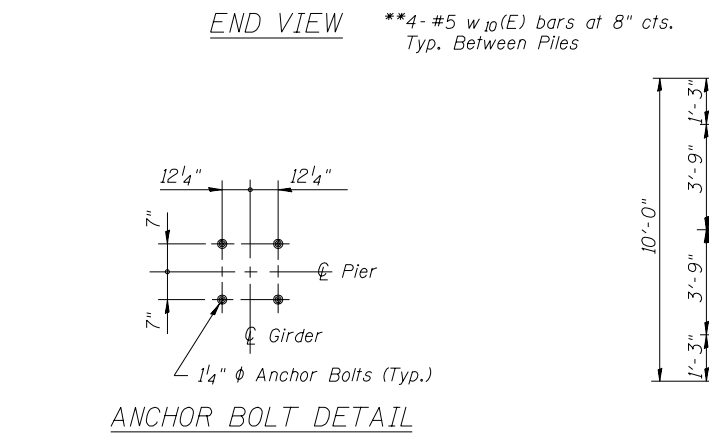
Type: Steel HP12x53
 Nominal Required Bearing: 419 kips
 Factored Resistance Available: 230 kips
 Est. Length: 54 Ft.
 No. Production Piles: 24



**PIER 8
 BILL OF MATERIAL**

Bar	No.	Size	Length	Shape
h ₁₀ (E)	18	#5	32'-0"	—
h ₁₁ (E)	12	#5	26'-6"	—
n ₁₀ (E)	36	#8	7'-7"	U
n ₁₂ (E)	36	#8	8'-7"	U
p ₁₀ (E)	10	#7	32'-0"	—
s ₁₀ (E)	33	#4	10'-5"	□
s ₁₁ (E)	200	#4	3'-4"	C
t ₁₀ (E)	51	#8	9'-9"	—
t ₁₁ (E)	37	#6	9'-9"	—
u ₁₀ (E)	6	#6	10'-9"	U
u ₁₁ (E)	12	#5	8'-9"	U
u ₁₂ (E)	18	#5	10'-5"	U
v ₁₅ (E)	36	#8	10'-2"	U
v ₂₃ (E)	36	#8	9'-2"	U
w ₁₀ (E)	20	#5	36'-3"	—
Structure Excavation			Cu. Yd.	235
Concrete Structures			Cu. Yd.	85.9
Reinforcement Bars, Epoxy Coated			Pound	8,700
Furnishing Steel Piles HP12x53			Foot	1,296
Driving Piles			Foot	1,296
Mechanical Splicers			Each	96

* 6-Mechanical Splicers or shop welded splicer per AWS D1.4 on horizontal bars. (Each Face, Each End)



**STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION**

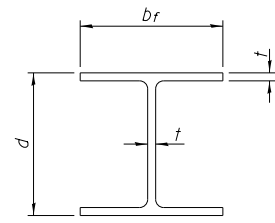
**PIER 8
 STRUCTURE NO. 003-0062**

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
793	(40,112)BR-1	BOND	95	65
CONTRACT NO. 76967			ILLINOIS FED. AID PROJECT	

Hutchison Engineering, Inc.
 Jacksonville, Peoria & Shorewood, Illinois

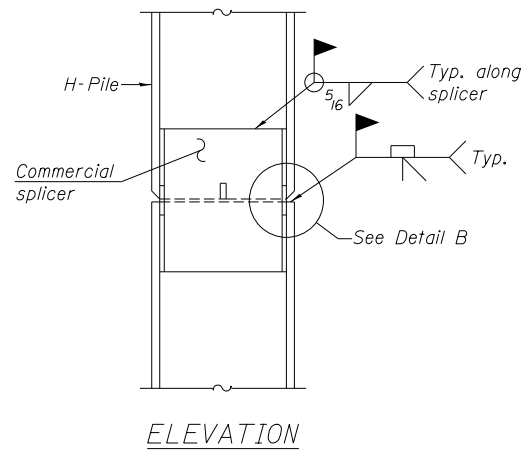
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PLOT DATE = 1/10/2017	JOH	
	TAC	
	BAN	

SHEET NO. 39 OF 59 SHEETS

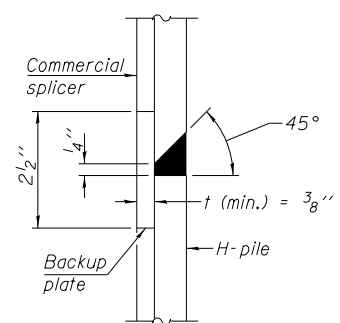


STEEL PILE TABLE

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"

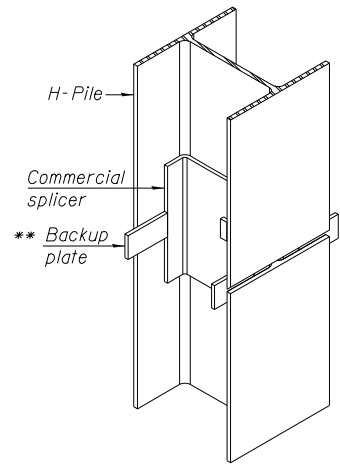


ELEVATION

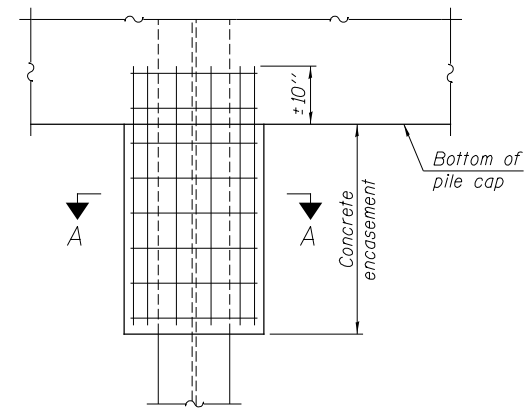


DETAIL "B"

WELDED COMMERCIAL SPLICE

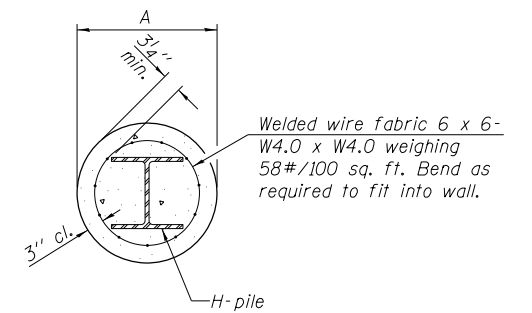


ISOMETRIC VIEW



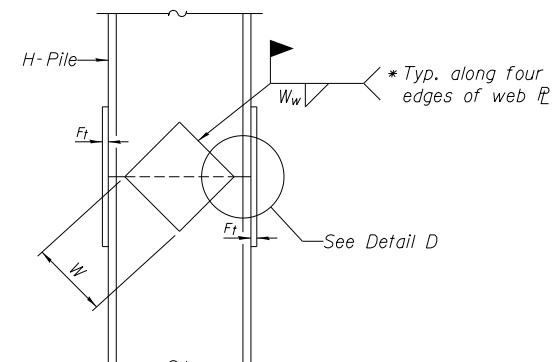
ELEVATION

PILE ENCASEMENT



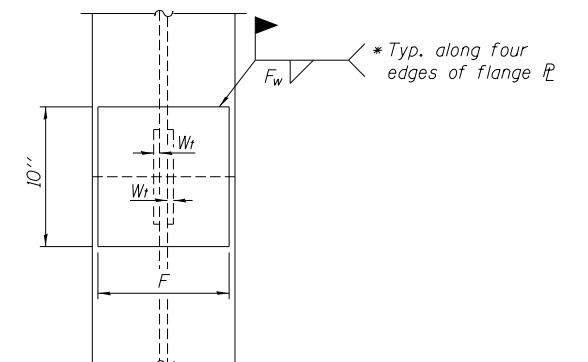
SECTION A-A

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

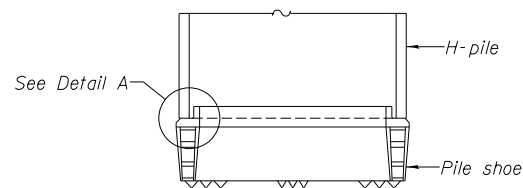


ELEVATION

WELDED PLATE FIELD SPLICE

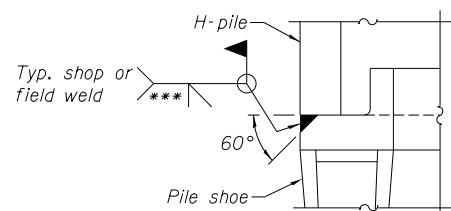


END VIEW

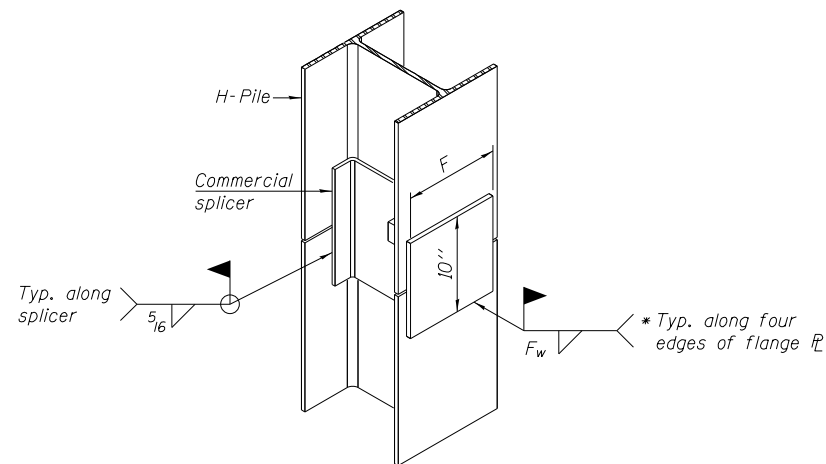


ELEVATION

H-PILE SHOE ATTACHMENT



DETAIL A



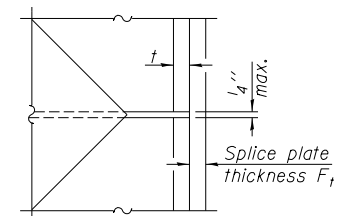
ISOMETRIC VIEW

WELDED COMMERCIAL SPLICE ALTERNATE

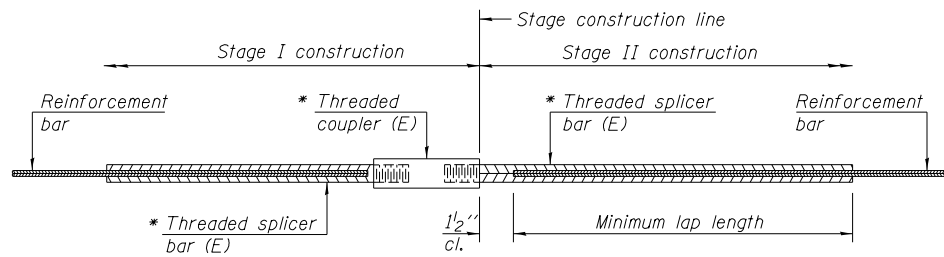
- * Interrupt welds 1/4" from end of web and/or each flange.
- ** Remove portions of backup plates that extend outside the flanges.
- *** Weld size per pile shoe manufacturer (5/16" min.).

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

Designation	F	Ft	Fw	W	Wt	Ww
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"



DETAIL D



STANDARD BAR SPLICER ASSEMBLY

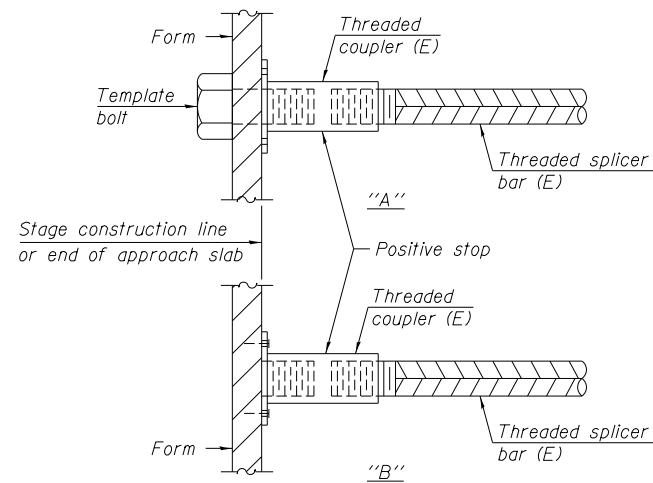
Minimum Lap Lengths						
Bar size to be spliced	Table 1	Table 2	Table 3	Table 4	Table 5	Table 6
3, 4	1'-5"	1'-11"	2'-1"	2'-4"	2'-7"	2'-11"
5	1'-9"	2'-5"	2'-7"	2'-11"	3'-3"	3'-8"
6	2'-1"	2'-11"	3'-1"	3'-6"	3'-10"	4'-5"
7	2'-9"	3'-10"	4'-2"	4'-8"	5'-2"	5'-10"
8	3'-8"	5'-1"	5'-5"	6'-2"	6'-9"	7'-8"
9	4'-7"	6'-5"	6'-10"	7'-9"	8'-7"	9'-8"

- Table 1: Black bar, 0.8 Class C
- Table 2: Black bar, Top bar lap, 0.8 Class C
- Table 3: Epoxy bar, 0.8 Class C
- Table 4: Epoxy bar, Top bar lap, 0.8 Class C
- Table 5: Epoxy bar, Class C
- Table 6: Epoxy bar, Top bar top, Class C

Threaded splicer bar length = min. lap length + 1/2" + thread length

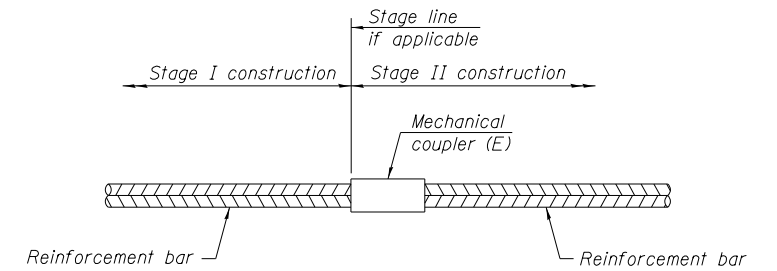
* Epoxy not required on Bar Splicer Assembly components used in conjunction with black bars.

Location	Bar size	No. assemblies required	Table for minimum lap length



INSTALLATION AND SETTING METHODS

"A" : Set bar splicer assembly by means of a template bolt.
 "B" : Set bar splicer assembly by nailing to wood forms or cementing to steel forms.
 (E) : Indicates epoxy coating.



STANDARD MECHANICAL SPLICER

Location	Bar size	No. assemblies required
Pier 1	5	24
Pier 1	8	72
Pier 2	5	24
Pier 2	8	72
Pier 3	5	24
Pier 3	8	72
Pier 4	5	24
Pier 4	10	138
Pier 5	5	24
Pier 5	10	138
Pier 6	5	24
Pier 6	8	72
Pier 7	5	24
Pier 7	8	72
Pier 8	5	24
Pier 8	8	72

NOTES

Splicer bars shall be deformed with threaded ends and have a minimum 60 ksi yield strength.
 All reinforcement shall be lapped and tied to the splicer bars.
 Bar splicer assemblies shall be epoxy coated according to the requirements for reinforcement bars. See Section 508 of the Standard Specifications.
 See approved list of bar splicer assemblies and mechanical splicers for alternatives.



Illinois Department of Transportation
Division of Highways
Illinois Department of Transportation

SOIL BORING LOG

Page 1 of 2

Date 3/5/71

ROUTE FAP 793 (FA 149) DESCRIPTION IL 143 over Shoal Creek LOGGED BY C. Hoffman

SECTION 112BR LOCATION NW 1/4, SW 1/4, SEC. 24, TWP. 4N, RNG. 4W, 3 PM

COUNTY Bond DRILLING METHOD Hollow Stem Auger HAMMER TYPE 140# Automatic

STRUCT. NO. 003-0034 (E) / 003-0062 (P)
Station 389+70
BORING NO. W. Abut
Station 379+88.2
Offset 13.00ft Right
Ground Surface Elev. 465.2 ft

DEPTH (ft)	BLOW COUNT (/6")	UNCONFINED COMPRESSIVE STRENGTH (tsf)	FAILURE MODE (%)	SOIL DESCRIPTION	ELEVATION (ft)	DEPTH (ft)	BLOW COUNT (/6")	UNCONFINED COMPRESSIVE STRENGTH (tsf)	FAILURE MODE (%)
0				Brown Silty CLAY		0			
10	1.11	23				10	0.49	23	
23	2.77	17				23	1.04	27	
438.5				Gray and Brown Silty Slightly Sandy CLAY (continued)	438.5	438.5			
436.0				Gray Slightly Silty CLAY	436.0	436.0			
436.0				Gray Medium SAND	436.0	436.0			
453.5					453.5	453.5			
451.0				Brown and Gray Slightly Silty CLAY	451.0	451.0			
449.0				Gray Slightly Silty CLAY	449.0	449.0			
446.0				Gray and Brown Slightly Silty CLAY	446.0	446.0			
446.0				Gray and Brown Silty Slightly Sandy CLAY	446.0	446.0			

The Unconfined Compressive Strength (UCS) Failure Mode is indicated by (B-Bulge, S-Shear, P-Penetrometer)
The SPT (N value) is the sum of the last two blow values in each sampling zone (AASHTO T206)
BBS, from 137 (Rev. 8-99)



Illinois Department of Transportation
Division of Highways
Illinois Department of Transportation

SOIL BORING LOG

Page 2 of 2

Date 3/5/71

ROUTE FAP 793 (FA 149) DESCRIPTION IL 143 over Shoal Creek LOGGED BY C. Hoffman

SECTION 112BR LOCATION NW 1/4, SW 1/4, SEC. 24, TWP. 4N, RNG. 4W, 3 PM

COUNTY Bond DRILLING METHOD Hollow Stem Auger HAMMER TYPE 140# Automatic

STRUCT. NO. 003-0034 (E) / 003-0062 (P)
Station 389+70
BORING NO. W. Abut
Station 379+88.2
Offset 13.00ft Right
Ground Surface Elev. 465.2 ft

DEPTH (ft)	BLOW COUNT (/6")	UNCONFINED COMPRESSIVE STRENGTH (tsf)	FAILURE MODE (%)	SOIL DESCRIPTION	ELEVATION (ft)	DEPTH (ft)	BLOW COUNT (/6")	UNCONFINED COMPRESSIVE STRENGTH (tsf)	FAILURE MODE (%)
0				Gray Medium SAND (continued)		0			
30						30			
404.4				Gray Coarse SAND (continued)	404.4	404.4			
403.9				Gray Weathered SHALE	403.9	403.9			
60				End of Boring		60			
419.0				Gray Clayey SILT	419.0	419.0			
413.7					413.7	413.7			
408.5				Gray-Green Silty CLAY	408.5	408.5			
406.2				Gray Silt Sand TILL	406.2	406.2			
406.2				Gray Coarse SAND	406.2	406.2			

The Unconfined Compressive Strength (UCS) Failure Mode is indicated by (B-Bulge, S-Shear, P-Penetrometer)
The SPT (N value) is the sum of the last two blow values in each sampling zone (AASHTO T206)
BBS, from 137 (Rev. 8-99)



SOIL BORING LOG

Date 4/19/71

ROUTE FAP 793 (FA 149) DESCRIPTION IL 143 over Shoal Creek LOGGED BY C. Hoffman

SECTION 112BR LOCATION NW 1/4, SW 1/4, SEC. 24, TWP. 4N, RNG. 4W, 3 PM

COUNTY Bond DRILLING METHOD Hollow Stem Auger HAMMER TYPE 140# Automatic

STRUCT. NO. 003-0034 (E) / 003-0062 (P) / Station 389+70

BORING NO. 1 Bent #2 Station 380+48.1 Offset 21.00ft Right Ground Surface Elev. 454.0 ft

Surface Water Elev. _____ ft
Stream Bed Elev. _____ ft

Groundwater Elev.:
First Encounter _____ ft
Upon Completion _____ ft
After _____ Hrs. _____ ft

DEPTH (ft)	BLOW COUNT (/6")	UCS (tsf)	MOISTURE (%)	SOIL DESCRIPTION	DEPTH (ft)	BLOW COUNT (/6")	UCS (tsf)	MOISTURE (%)
0				Gray CLAY	0			
7	1.37	27			1			
449.6				Gray Silty CLAY	1		NC	
2	0.36	33			2			
427.0				Gray Coarse SAND	2		NC	
4	0.52	28			3			
424.5				Gray Fine SAND with Coarse Gravel	3		NC	
6	1.01	25			4			
442.0				Gray and Brown Silty CLAY	4			
9	1.33	26			5			
6	1.04	26			6			
436.1				Gray Medium SAND	6			
6					7			
-20					8			

The Unconfined Compressive Strength (UCS) Failure Mode is indicated by (B-Bulge, S-Shear, P-Penetrometer)
The SPT (N value) is the sum of the last two blow values in each sampling zone (AASHTO T206)
BBS, from 137 (Rev. 8-99)



SOIL BORING LOG

Date 4/19/71

ROUTE FAP 793 (FA 149) DESCRIPTION IL 143 over Shoal Creek LOGGED BY C. Hoffman

SECTION 112BR LOCATION NW 1/4, SW 1/4, SEC. 24, TWP. 4N, RNG. 4W, 3 PM

COUNTY Bond DRILLING METHOD Hollow Stem Auger HAMMER TYPE 140# Automatic

STRUCT. NO. 003-0034 (E) / 003-0062 (P) / Station 389+70

BORING NO. 1 Bent #2 Station 380+48.1 Offset 21.00ft Right Ground Surface Elev. 454.0 ft

Surface Water Elev. _____ ft
Stream Bed Elev. _____ ft

Groundwater Elev.:
First Encounter _____ ft
Upon Completion _____ ft
After _____ Hrs. _____ ft

DEPTH (ft)	BLOW COUNT (/6")	UCS (tsf)	MOISTURE (%)	SOIL DESCRIPTION	DEPTH (ft)	BLOW COUNT (/6")	UCS (tsf)	MOISTURE (%)
48	3.45	22		Gray SILT (Thixotropic)	100+			
24	2.80	21						
409.5				Gray Clayey SILT				
20	3.17	19						
407.0				Blue Gray Silty CLAY				
13	2.75	19						
17	2.35	19						
402.0				Gray Weathered SHALE				
80		14						
72								
100+								
-60								

The Unconfined Compressive Strength (UCS) Failure Mode is indicated by (B-Bulge, S-Shear, P-Penetrometer)
The SPT (N value) is the sum of the last two blow values in each sampling zone (AASHTO T206)
BBS, from 137 (Rev. 8-99)



SOIL BORING LOG

Date 4/26/71

ROUTE FAP 793 (FA 149) DESCRIPTION IL 143 over Shoal Creek LOGGED BY C. Hoffman

SECTION 112BR LOCATION NW 1/4, SW 1/4, SEC. 24, TWP. 4N, RNG. 4W, 3 PM

COUNTY Bond DRILLING METHOD Hollow Stem Auger HAMMER TYPE 140# Automatic

STRUCT. NO. 003-0034 (E) / 003-0062 (P) / Station 389+70

BORING NO. 2 Bent #3 Station 380+97.72 Offset 22.70ft Right Ground Surface Elev. 454.0 ft

Surface Water Elev. _____ ft
Stream Bed Elev. _____ ft

Groundwater Elev.:
First Encounter _____ ft
Upon Completion _____ ft
After _____ Hrs. _____ ft

DEPTH (ft)	BLOW COUNT (/6")	UCS (tsf)	MOISTURE (%)	SOIL DESCRIPTION	DEPTH (ft)	BLOW COUNT (/6")	UCS (tsf)	MOISTURE (%)
3	0.49	27		Brown and Gray Slightly Silty CLAY	1			
3	0.49	26			1			
3	0.49	26			2			
5	0.65	26			3			
4	0.33	28			4			
10	0.55	28			5			
7	0.75	31			6			
437.1				Gray Silty CLAY	6			
4	0.55	34			7			
434.5				Gray Fine SAND	7			
4	0.55	34			8			
-20					9			

The Unconfined Compressive Strength (UCS) Failure Mode is indicated by (B-Bulge, S-Shear, P-Penetrometer)
The SPT (N value) is the sum of the last two blow values in each sampling zone (AASHTO T206)
BBS, from 137 (Rev. 8-99)

Hutchison Engineering, Inc.
Jacksonville, Peoria & Shorewood, Illinois

USER NAME =	DESIGNED - BAN	REVISED -
PLOT SCALE = NONE	CHECKED - JOH	REVISED -
PLOT DATE = 1/10/2017	DRAWN - TAC	REVISED -
	CHECKED - BAN	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

SOIL BORING LOGS
STRUCTURE NO. 003-0062

SHEET NO. 44 OF 59 SHEETS

F.A.P. RTE. 793	SECTION (40,112)BR-1	COUNTY BOND	TOTAL SHEETS 95	SHEET NO. 70
			CONTRACT NO. 76967	

ILLINOIS FED. AID PROJECT



SOIL BORING LOG

Date 4/28/71

ROUTE FAP 793 (FA 149) DESCRIPTION IL 143 over Shoal Creek LOGGED BY C. Hoffman

SECTION 112BR LOCATION NW 1/4, SW 1/4, SEC. 24, TWP. 4N, RNG. 4W, 3 PM

COUNTY Bond DRILLING METHOD Hollow Stem Auger HAMMER TYPE 140# Automatic

STRUCT. NO.	BORING NO.	Station	Offset	Ground Surface Elev.	DEPTH (ft)	BULGE (ft)	UCS (tsf)	MOISTURE (%)	SOIL DESCRIPTION	DEPTH (ft)	BULGE (ft)	UCS (tsf)	MOISTURE (%)
003-0034 (E) / 003-0062 (P)	2 Bent #3	380+97.72	22.70ft Right	454.0					Gray SILT (continued) (Thixotropic)				
					30	2.44	21		Gray Weathered SHALE (continued)	392.6			
					412.1				End of Boring				
									Ground Elevation with Reference to assumed BM of 130.25', average of shots along centerline on 0 degree grade, Station 374+00				
					28	3.91	18		Gray-Green Silty CLAY				
					-45								
					10	2.27	20						
					407.1				Gray Green Silty Sandy CLAY				
					12	1.20	18						
					-50								
					24	2.11	14						
					402.1				Gray Weathered SHALE				
					100+	5.06	17						
					-55								
					40	2.52	17						
					60	4.57							
					-60								

The Unconfined Compressive Strength (UCS) Failure Mode is indicated by (B-Bulge, S-Shear, P-Penetrometer) The SPT (N value) is the sum of the last two blow values in each sampling zone (AASHTO T206) BBS, from 137 (Rev. 8-99)



SOIL BORING LOG

Date 4/28/71

ROUTE FAP 793 (FA 149) DESCRIPTION IL 143 over Shoal Creek LOGGED BY C. Hoffman

SECTION 112BR LOCATION NW 1/4, SW 1/4, SEC. 24, TWP. 4N, RNG. 4W, 3 PM

COUNTY Bond DRILLING METHOD Hollow Stem Auger HAMMER TYPE 140# Automatic

STRUCT. NO.	BORING NO.	Station	Offset	Ground Surface Elev.	DEPTH (ft)	BULGE (ft)	UCS (tsf)	MOISTURE (%)	SOIL DESCRIPTION	DEPTH (ft)	BULGE (ft)	UCS (tsf)	MOISTURE (%)
003-0034 (E) / 003-0062 (P)	3 Bent #4	381+49.12	19.00ft Right	454.0					Gray Slightly Silty CLAY				
									Gray Sandy Gravelly CLAY (continued)	4	0.33	25	
					432.0				Gray Coarse SAND and GRAVEL				
					7	0.59	25						
					449.5				Brown and Gray Silty CLAY				
					-5	0.59	27						
					4	0.39	28						
					-10				Gray SILT				
					6	1.04	28						
					424.5				(Thixotropic)				
					8	1.46	27						
					-15	0.97	30		Gray Silty CLAY				
					8	0.97	30						
					437.0				Gray Silty CLAY				
					2	0.62	35						
					434.5				Gray Sandy Gravelly CLAY				
					-20								

The Unconfined Compressive Strength (UCS) Failure Mode is indicated by (B-Bulge, S-Shear, P-Penetrometer) The SPT (N value) is the sum of the last two blow values in each sampling zone (AASHTO T206) BBS, from 137 (Rev. 8-99)



SOIL BORING LOG

Date 4/28/71

ROUTE FAP 793 (FA 149) DESCRIPTION IL 143 over Shoal Creek LOGGED BY C. Hoffman

SECTION 112BR LOCATION NW 1/4, SW 1/4, SEC. 24, TWP. 4N, RNG. 4W, 3 PM

COUNTY Bond DRILLING METHOD Hollow Stem Auger HAMMER TYPE 140# Automatic

STRUCT. NO.	BORING NO.	Station	Offset	Ground Surface Elev.	DEPTH (ft)	BULGE (ft)	UCS (tsf)	MOISTURE (%)	SOIL DESCRIPTION	DEPTH (ft)	BULGE (ft)	UCS (tsf)	MOISTURE (%)
003-0034 (E) / 003-0062 (P)	3 Bent #4	381+49.12	19.00ft Right	454.0					Gray Silty CLAY (continued)	15	2.44	18	
									Gray Weathered SHALE (continued)	392.7			
					412.0				End of Boring				
									Ground Elevation with Reference to assumed BM of 130.25', average of shots along centerline on 0 degree grade, Station 374+00				
					10	1.27	18		Gray Silty Slightly Sandy CLAY				
					-45	0.72	21						
					13	0.72	21						
					407.0				Gray Medium SAND				
					40								
					-50				Gray Weathered SHALE				
					28		17						
					403.0				Dark Gray Weathered SHALE				
					402.0								
					100+				Gray Weathered SHALE				
					399.5								
					-55				Gray Weathered SHALE				
					100+								
					100+								
					-60								

The Unconfined Compressive Strength (UCS) Failure Mode is indicated by (B-Bulge, S-Shear, P-Penetrometer) The SPT (N value) is the sum of the last two blow values in each sampling zone (AASHTO T206) BBS, from 137 (Rev. 8-99)



SOIL BORING LOG

Date 5/3/71

ROUTE FAP 793 (FA 149) DESCRIPTION IL 143 over Shoal Creek LOGGED BY C. Hoffman

SECTION 112BR LOCATION NW 1/4, SW 1/4, SEC. 24, TWP. 4N, RNG. 4W, 3 PM

COUNTY Bond DRILLING METHOD Hollow Stem Auger HAMMER TYPE 140# Automatic

STRUCT. NO.	003-0034 (E) / 003-0062 (P)	Station	389+70	BORING NO.	4 Bent #5	Station	382+00.49	Offset	19.50ft Right	Ground Surface Elev.	454.4	ft	(ft)	(/6")	(tsf)	(%)	Surface Water Elev.	ft	Stream Bed Elev.	ft	Groundwater Elev.:	ft	First Encounter	447.7	ft	Upon Completion	ft	After	Hrs.	ft	(ft)	(/6")	(tsf)	(%)
Brown and Tan SILT												Gray Coarse SAND (continued)																						
												3																						
												13																						
												NC																						
												430.2																						
												-5																						
												11																						
												1.14																						
												B																						
												25																						
												447.7																						
Brown Slightly Silty CLAY												Gray Coarse SAND and GRAVEL																						
												-25																						
												20																						
												NC																						
												407.7																						
												-45																						
												13																						
												2.24																						
												B																						
												17																						
												405.2																						
												-30																						
												50																						
												NC																						
												402.7																						
Brown and Gray Silty Slightly Sandy CLAY												Gray SILT																						
												60																						
												0.87																						
												S																						
												23																						
												400.2																						
												-35																						
												60																						
												2.35																						
												S																						
												23																						
												437.7																						
Gray CLAY												Gray SILT																						
												22																						
												3.00																						
												S																						
												25																						
												435.2																						
Gray Coarse SAND												Gray Silty CLAY																						
												-40																						

The Unconfined Compressive Strength (UCS) Failure Mode is indicated by (B-Bulge, S-Shear, P-Penetrometer)
The SPT (N value) is the sum of the last two blow values in each sampling zone (AASHTO T206)
BBS, from 137 (Rev. 8-99)



SOIL BORING LOG

Date 5/3/71

ROUTE FAP 793 (FA 149) DESCRIPTION IL 143 over Shoal Creek LOGGED BY C. Hoffman

SECTION 112BR LOCATION NW 1/4, SW 1/4, SEC. 24, TWP. 4N, RNG. 4W, 3 PM

COUNTY Bond DRILLING METHOD Hollow Stem Auger HAMMER TYPE 140# Automatic

STRUCT. NO.	003-0034 (E) / 003-0062 (P)	Station	389+70	BORING NO.	4 Bent #5	Station	382+00.49	Offset	19.50ft Right	Ground Surface Elev.	454.4	ft	(ft)	(/6")	(tsf)	(%)	Surface Water Elev.	ft	Stream Bed Elev.	ft	Groundwater Elev.:	ft	First Encounter	447.7	ft	Upon Completion	ft	After	Hrs.	ft	(ft)	(/6")	(tsf)	(%)
Gray Silty CLAY (continued)												Gray Weathered SHALE (continued)																						
												12																						
												2.16																						
												B																						
												20																						
												363.2																						
												100+																						
												End of Boring																						
												Ground Elevation with Reference to assumed BM of 130.25', average of shots along centerline on 0 degree grade, Station 374+00																						
												-65																						
												407.7																						
Gray Sandy SILT												Gray Coarse SAND and GRAVEL																						
												-50																						
												26																						
												NC																						
												405.2																						
												-30																						
												80																						
												5.50																						
												S																						
												13																						
												402.7																						
Dark Gray and Black Weathered SHALE												Gray Coarse SAND																						
												-55																						
												100+																						
												399.2																						
												-75																						
												100+																						
												-80																						

The Unconfined Compressive Strength (UCS) Failure Mode is indicated by (B-Bulge, S-Shear, P-Penetrometer)
The SPT (N value) is the sum of the last two blow values in each sampling zone (AASHTO T206)
BBS, from 137 (Rev. 8-99)



SOIL BORING LOG

Date 5/4/71

ROUTE FAP 793 (FA 149) DESCRIPTION IL 143 over Shoal Creek LOGGED BY C. Hoffman

SECTION 112BR LOCATION NW 1/4, SW 1/4, SEC. 24, TWP. 4N, RNG. 4W, 3 PM

COUNTY Bond DRILLING METHOD Hollow Stem Auger HAMMER TYPE 140# Automatic

STRUCT. NO.	003-0034 (E) / 003-0062 (P)	Station	389+70	BORING NO.	5 Bent #6	Station	382+51.69	Offset	20.00ft Right	Ground Surface Elev.	454.6	ft	(ft)	(/6")	(tsf)	(%)	Surface Water Elev.	ft	Stream Bed Elev.	ft	Groundwater Elev.:	ft	First Encounter	445.5	ft	Upon Completion	ft	After	Hrs.	ft	(ft)	(/6")	(tsf)	(%)
Brown and Tan Clayey SILT												Gray Coarse SAND and GRAVEL (continued)																						
												6																						
												NC																						
												433.0																						
												5																						
												0.52																						
												B																						
												25																						
												430.5																						
												-25																						
												7																						
												0.98																						
												B																						
												25																						
												443.0																						
												-30																						
												6																						
												0.52																						
												B																						
												27																						
												30																						
												NC																						
												420.5																						
Brown and Gray Silty Slightly Sandy CLAY												Gray Coarse SAND and GRAVEL																						
												-25																						
												30																						
												NC																						
												443.0																						
												-30																						
												4																						
												0.33																						
												B																						
												28																						
												28																						
												NC																						
												420.5																						
Gray Clayey SILT												Gray Silty CLAY																						
												-35																						
												6																						
												0.81																						
												B																						
												28																						
												438.0																						
												-75																						
												3																						
												0.75																						
												B																						
												32																						
												14																						
												1.79																						
												S																						
												27																						
												435.5																						
Gray Coarse SAND and GRAVEL												Gray Coarse SAND and GRAVEL																						
												-40																						

The Unconfined Compressive Strength (UCS) Failure Mode is indicated by (B-Bulge, S-Shear, P-Penetrometer)
The SPT (N value) is the sum of the last two blow values in each sampling zone (AASHTO T206)
BBS, from 137 (Rev. 8-99)

Hutchison Engineering, Inc.
Jacksonville, Peoria & Shorewood, Illinois

USER NAME =	DESIGNED - BAN	REVISED -
PLOT SCALE = NONE	CHECKED - JOH	REVISED -
PLOT DATE = 1/10/2017	DRAWN - TAC	REVISED -
	CHECKED - BAN	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

SOIL BORING LOGS
STRUCTURE NO. 003-0062

SHEET NO. 46 OF 59 SHEETS

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
793	(40,112)BR-1	BOND	95	72
CONTRACT NO.			76967	

ILLINOIS FED. AID PROJECT



SOIL BORING LOG

Date 5/19/71

ROUTE FAP 793 (FA 149) DESCRIPTION IL 143 over Shoal Creek LOGGED BY C. Hoffman

SECTION 112BR LOCATION NW 1/4, SW 1/4, SEC. 24, TWP. 4N, RNG. 4W, 3 PM

COUNTY Bond DRILLING METHOD Hollow Stem Auger HAMMER TYPE 140# Automatic

STRUCT. NO. 003-0034 (E) / 003-0062 (P) / Station 389+70

BORING NO. 10 Bent #11 Station 385+08.63 Offset 21.50ft Right Ground Surface Elev. 454.7 ft

Surface Water Elev. _____ ft
Stream Bed Elev. _____ ft

Groundwater Elev.:
First Encounter _____ ft
Upon Completion _____ ft
After _____ Hrs. _____ ft

DEPTH (ft)	BLOW COUNT (/6")	UCS (tsf)	MOISTURE (%)	SOIL DESCRIPTION	DEPTH (ft)	BLOW COUNT (/6")	UCS (tsf)	MOISTURE (%)
0				Gray Clayey Medium SAND (continued)	0	7	1.04	21
432.7				Gray Coarse SAND	432.7	5	NC	
447.7				Gray Coarse SAND and GRAVEL	447.7	22	NC	
440.4				Gray Sandy SILT	440.4	30	1.43	18
437.7				Gray Coarse SAND	437.7	34	NC	
435.2				Gray SILT	435.2	36	2.93	21
				Gray Clayey SILT				

The Unconfined Compressive Strength (UCS) Failure Mode is indicated by (B-Bulge, S-Shear, P-Penetrometer)
The SPT (N value) is the sum of the last two blow values in each sampling zone (AASHTO T206)
BBS, from 137 (Rev. 8-99)



SOIL BORING LOG

Date 5/19/71

ROUTE FAP 793 (FA 149) DESCRIPTION IL 143 over Shoal Creek LOGGED BY C. Hoffman

SECTION 112BR LOCATION NW 1/4, SW 1/4, SEC. 24, TWP. 4N, RNG. 4W, 3 PM

COUNTY Bond DRILLING METHOD Hollow Stem Auger HAMMER TYPE 140# Automatic

STRUCT. NO. 003-0034 (E) / 003-0062 (P) / Station 389+70

BORING NO. 10 Bent #11 Station 385+08.63 Offset 21.50ft Right Ground Surface Elev. 454.7 ft

Surface Water Elev. _____ ft
Stream Bed Elev. _____ ft

Groundwater Elev.:
First Encounter _____ ft
Upon Completion _____ ft
After _____ Hrs. _____ ft

DEPTH (ft)	BLOW COUNT (/6")	UCS (tsf)	MOISTURE (%)	SOIL DESCRIPTION	DEPTH (ft)	BLOW COUNT (/6")	UCS (tsf)	MOISTURE (%)
363.4				Gray Clayey SILT (continued)	363.4	7	1.66	22
412.7				Gray CLAY	412.7	19	1.17	28
407.7				Gray Clayey SILT	407.7	10	1.73	30
405.2				Dark Brown SILT (Highly Organic with much Plant Material)	405.2	38	3.66	71
402.7				Gray Clayey SILT	402.7	20	3.26	35
402.7				Gray Clayey SILT	402.7	10	2.03	32
402.7				Gray Clayey SILT	402.7	14	1.96	23

The Unconfined Compressive Strength (UCS) Failure Mode is indicated by (B-Bulge, S-Shear, P-Penetrometer)
The SPT (N value) is the sum of the last two blow values in each sampling zone (AASHTO T206)
BBS, from 137 (Rev. 8-99)



SOIL BORING LOG

Date 5/20/71

ROUTE FAP 793 (FA 149) DESCRIPTION IL 143 over Shoal Creek LOGGED BY C. Hoffman

SECTION 112BR LOCATION NW 1/4, SW 1/4, SEC. 24, TWP. 4N, RNG. 4W, 3 PM

COUNTY Bond DRILLING METHOD Hollow Stem Auger HAMMER TYPE 140# Automatic

STRUCT. NO. 003-0034 (E) / 003-0062 (P) / Station 389+70

BORING NO. 11 Bent #12 Station 385+59.91 Offset 21.00ft Right Ground Surface Elev. 455.2 ft

Surface Water Elev. _____ ft
Stream Bed Elev. _____ ft

Groundwater Elev.:
First Encounter _____ ft
Upon Completion _____ ft
After _____ Hrs. _____ ft

DEPTH (ft)	BLOW COUNT (/6")	UCS (tsf)	MOISTURE (%)	SOIL DESCRIPTION	DEPTH (ft)	BLOW COUNT (/6")	UCS (tsf)	MOISTURE (%)
433.5				Brown and Gray Silty CLAY (with abundant pellets of Limonite) (continued)	433.5	5	1.04	22
430.7				Gray Medium SAND	430.7	1	NC	
427.7				Gray Coarse SAND and Fine GRAVEL	427.7	9	NC	
425.7				Brown Silty CLAY	425.7	26	NC	
423.2				Gray Coarse SAND and Coarse GRAVEL	423.2	34	NC	
420.7				Brown and Gray Silty CLAY	420.7	34	2.63	22
418.2				Gray SILT (Thixotropic)	418.2	12	1.50	18
415.2				Gray SILT (Thixotropic)	415.2	24	2.77	23

The Unconfined Compressive Strength (UCS) Failure Mode is indicated by (B-Bulge, S-Shear, P-Penetrometer)
The SPT (N value) is the sum of the last two blow values in each sampling zone (AASHTO T206)
BBS, from 137 (Rev. 8-99)

Hutchison Engineering, Inc.
Jacksonville, Peoria & Shorewood, Illinois

USER NAME =	DESIGNED - BAN	REVISED -
PLOT SCALE = NONE	CHECKED - JOH	REVISED -
PLOT DATE = 1/10/2017	DRAWN - TAC	REVISED -
	CHECKED - BAN	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

SOIL BORING LOGS
STRUCTURE NO. 003-0062

SHEET NO. 50 OF 59 SHEETS

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
793	(40,112)BR-1	BOND	95	76
CONTRACT NO. 76967				

ILLINOIS FED. AID PROJECT



SOIL BORING LOG

Date 6/7/71

ROUTE FAP 793 (FA 149) DESCRIPTION IL 143 over Shoal Creek LOGGED BY C. Hoffman

SECTION 112BR LOCATION NW 1/4, SW 1/4, SEC. 24, TWP. 4N, RNG. 4W, 3 PM

COUNTY Bond DRILLING METHOD Hollow Stem Auger HAMMER TYPE 140# Automatic

STRUCT. NO. 003-0034 (E) / 003-0062 (P)
 Station 389+70

BORING NO. 13 Bent #14
 Station 386+64.63
 Offset 22.00ft Right
 Ground Surface Elev. 456.1 ft

DEPTH (ft)	BLOW COUNT (/6")	UCS (tsf)	MOISTURE (%)	SOIL DESCRIPTION	DEPTH (ft)	BLOW COUNT (/6")	UCS (tsf)	MOISTURE (%)
0				Gray Clayey SAND (continued)	0	3	0.16	25
10	0.65	24		Gray Medium SAND	10	2		NC
20	0.65	23		Gray Coarse SAND	20	5		NC
30	0.49	26		Gray Clayey SILT	30	7		NC
40	0.29	30		Gray Coarse SAND and Fine GRAVEL	40	17		NC
50	0.33	29		Gray Coarse SAND and Coarse GRAVEL	50	26		NC
60	0.07	29		Gray SILT (Thixotropic)	60	19	3.39	24
70	0.16	24		Gray Silty CLAY (with Pebbles) (Till)	70	15	1.17	20
80				Gray Clayey SAND	80			

The Unconfined Compressive Strength (UCS) Failure Mode is indicated by (B-Bulge, S-Shear, P-Penetrometer)
 The SPT (N value) is the sum of the last two blow values in each sampling zone (AASHTO T206)
 BBS, from 137 (Rev. 8-99)



SOIL BORING LOG

Date 6/7/71

ROUTE FAP 793 (FA 149) DESCRIPTION IL 143 over Shoal Creek LOGGED BY C. Hoffman

SECTION 112BR LOCATION NW 1/4, SW 1/4, SEC. 24, TWP. 4N, RNG. 4W, 3 PM

COUNTY Bond DRILLING METHOD Hollow Stem Auger HAMMER TYPE 140# Automatic

STRUCT. NO. 003-0034 (E) / 003-0062 (P)
 Station 389+70

BORING NO. 13 Bent #14
 Station 386+64.63
 Offset 22.00ft Right
 Ground Surface Elev. 456.1 ft

DEPTH (ft)	BLOW COUNT (/6")	UCS (tsf)	MOISTURE (%)	SOIL DESCRIPTION	DEPTH (ft)	BLOW COUNT (/6")	UCS (tsf)	MOISTURE (%)
9	1.24	22		Gray Silty SANDY CLAY (continued)	9	9	1.24	22
14	1.79	28		Gray Silty CLAY (with Pebbles) (Till) (continued)	14	14	1.79	28
16	1.63	28		Gray Coarse SAND and Coarse GRAVEL	16	16	1.63	28
30	0.62	28		Gray Clayey SILT	30	30	0.62	28
26	1.63	68		Dark Brown SILT (Highly Organic) (Wood Stems)	26	26	1.63	68
28		63		Gray CLAY	28	28		63
14	2.17	22		Gray CLAY	14	14	2.17	22
14	1.82	21		Gray Silty CLAY	14	14	1.82	21
14	1.82	21		Gray Silty SANDY CLAY	14	14	1.82	21

The Unconfined Compressive Strength (UCS) Failure Mode is indicated by (B-Bulge, S-Shear, P-Penetrometer)
 The SPT (N value) is the sum of the last two blow values in each sampling zone (AASHTO T206)
 BBS, from 137 (Rev. 8-99)



SOIL BORING LOG

Date 6/8/71

ROUTE FAP 793 (FA 149) DESCRIPTION IL 143 over Shoal Creek LOGGED BY C. Hoffman

SECTION 112BR LOCATION NW 1/4, SW 1/4, SEC. 24, TWP. 4N, RNG. 4W, 3 PM

COUNTY Bond DRILLING METHOD Hollow Stem Auger HAMMER TYPE 140# Automatic

STRUCT. NO. 003-0034 (E) / 003-0062 (P)
 Station 389+70

BORING NO. 14 Bent #15
 Station 387+15.01
 Offset 21.00ft Right
 Ground Surface Elev. 455.2 ft

DEPTH (ft)	BLOW COUNT (/6")	UCS (tsf)	MOISTURE (%)	SOIL DESCRIPTION	DEPTH (ft)	BLOW COUNT (/6")	UCS (tsf)	MOISTURE (%)
3	0.55	27		Gray Clayey Medium SAND (continued)	3	3	0.55	27
2	0.68	32		Gray Sandy CLAY	2	2	0.68	32
2	0.29	29		Gray Clayey Medium SAND	2	2	0.29	29
2	0.33	26		Gray Silty SANDY CLAY	2	2	0.33	26
4	0.29	29		Brown and Tan Silty CLAY	4	4	0.29	29
4	0.39	29		Gray Coarse SAND and Coarse GRAVEL	4	4	0.39	29
30		NC		Gray and Brown Medium GRAVEL	30			NC
6	0.81	27		Brown and Gray Silty CLAY	6	6	0.81	27
39	1.43	24		Gray SILT (Thixotropic)	39	39	1.43	24
15	1.82	20		Gray Slightly Silty CLAY (Till) (with small Pebbles)	15	15	1.82	20
15				Gray Clayey Medium SAND	15			

The Unconfined Compressive Strength (UCS) Failure Mode is indicated by (B-Bulge, S-Shear, P-Penetrometer)
 The SPT (N value) is the sum of the last two blow values in each sampling zone (AASHTO T206)
 BBS, from 137 (Rev. 8-99)



SOIL BORING LOG

Date 6/11/71

ROUTE FAP 793 (FA 149) DESCRIPTION IL 143 over Shoal Creek LOGGED BY C. Hoffman

SECTION 112BR LOCATION NW 1/4, SW 1/4, SEC. 24, TWP. 4N, RNG. 4W, 3 PM

COUNTY Bond DRILLING METHOD Hollow Stem Auger HAMMER TYPE 140# Automatic

STRUCT. NO. 003-0034 (E) / 003-0062 (P) Station 389+70

BORING NO. 16 Bent #17 Station 388+16.89 Offset 21.00ft Right Ground Surface Elev. 456.6 ft

Surface Water Elev. _____ ft
Stream Bed Elev. _____ ft

Groundwater Elev.:
First Encounter 442.4 ft
Upon Completion _____ ft
After _____ Hrs. _____ ft

DEPTH (ft)	BLOWS (6")	UCS (tsf)	MOIST (%)	SOIL DESCRIPTION	DEPTH (ft)	BLOWS (6")	UCS (tsf)	MOIST (%)
				Gray Sandy Silty CLAY (continued)	3	0.49	28	
	12	1.82	22	Gray Medium SAND	5		NC	
	9	0.90	23	Gray Coarse SAND and Coarse GRAVEL	8		NC	
	5	0.46	25	Brown Silty CLAY	23		NC	
	4	0.52	26		50		NC	
	3	0.16	28	(Thixotropic)	24		NC	
	3	0.26	27	Brown and Tan Sandy Silty CLAY	46	1.43	22	
				(Thixotropic)				
	3	0.43	36	Gray Sandy Silty CLAY	20	0.39	18	
				(Thixotropic)				
				Gray Slightly Silty CLAY				

The Unconfined Compressive Strength (UCS) Failure Mode is indicated by (B-Bulge, S-Shear, P-Penetrometer)
The SPT (N value) is the sum of the last two blow values in each sampling zone (AASHTO T206)
BBS, from 137 (Rev. 8-99)



SOIL BORING LOG

Date 6/11/71

ROUTE FAP 793 (FA 149) DESCRIPTION IL 143 over Shoal Creek LOGGED BY C. Hoffman

SECTION 112BR LOCATION NW 1/4, SW 1/4, SEC. 24, TWP. 4N, RNG. 4W, 3 PM

COUNTY Bond DRILLING METHOD Hollow Stem Auger HAMMER TYPE 140# Automatic

STRUCT. NO. 003-0034 (E) / 003-0062 (P) Station 389+70

BORING NO. 16 Bent #17 Station 388+16.89 Offset 21.00ft Right Ground Surface Elev. 456.6 ft

Surface Water Elev. _____ ft
Stream Bed Elev. _____ ft

Groundwater Elev.:
First Encounter 442.4 ft
Upon Completion _____ ft
After _____ Hrs. _____ ft

DEPTH (ft)	BLOWS (6")	UCS (tsf)	MOIST (%)	SOIL DESCRIPTION	DEPTH (ft)	BLOWS (6")	UCS (tsf)	MOIST (%)
	14	1.37	29	Gray Slightly Silty CLAY (continued)	11	0.98	23	
	20	0.98	29	Gray Silty CLAY (continued)				
	16	1.11	30	End of Boring				
				Ground Elevation with Reference to assumed BM of 130.25', average of shots along centerline on 0 degree grade, Station 374+00				
	13	0.88	31					
	20	1.66	66	Dark Brown SILT (Highly Organic with Plant Stems)				
	28		74					
	11	1.82	22	Gray Slightly Silty CLAY				
	10	0.72	26					
				Gray Silty CLAY				

The Unconfined Compressive Strength (UCS) Failure Mode is indicated by (B-Bulge, S-Shear, P-Penetrometer)
The SPT (N value) is the sum of the last two blow values in each sampling zone (AASHTO T206)
BBS, from 137 (Rev. 8-99)



SOIL BORING LOG

Date 6/21/71

ROUTE FAP 793 (FA 149) DESCRIPTION IL 143 over Shoal Creek LOGGED BY C. Hoffman

SECTION 112BR LOCATION NW 1/4, SW 1/4, SEC. 24, TWP. 4N, RNG. 4W, 3 PM

COUNTY Bond DRILLING METHOD Hollow Stem Auger HAMMER TYPE 140# Automatic

STRUCT. NO. 003-0034 (E) / 003-0062 (P) Station 389+70

BORING NO. 17 Bent #18 Station 388+69.23 Offset 19.50ft Right Ground Surface Elev. 456.9 ft

Surface Water Elev. _____ ft
Stream Bed Elev. _____ ft

Groundwater Elev.:
First Encounter 444.9 ft
Upon Completion _____ ft
After _____ Hrs. _____ ft

DEPTH (ft)	BLOWS (6")	UCS (tsf)	MOIST (%)	SOIL DESCRIPTION	DEPTH (ft)	BLOWS (6")	UCS (tsf)	MOIST (%)
				Gray Clayey SAND (continued)	4	0.43	25	
	7	1.70	24	Gray Medium SAND and Coarse GRAVEL	4		NC	
	9	1.11	24	Brown Clayey SILT	3		NC	
	4	0.59	24	Brown Silty CLAY	40		NC	
	3	0.33	26		40		NC	
	3	0.33	27	Brown Silty Sandy CLAY (Thixotropic)	22	0.81	21	
	4	0.68	28	Brown Silty CLAY (Thixotropic)	12	0.75	20	
	5	0.33	24	Gray Silty Sandy CLAY (Thixotropic)	10	1.11	20	
				Gray Clayey SAND				

The Unconfined Compressive Strength (UCS) Failure Mode is indicated by (B-Bulge, S-Shear, P-Penetrometer)
The SPT (N value) is the sum of the last two blow values in each sampling zone (AASHTO T206)
BBS, from 137 (Rev. 8-99)

Hutchison Engineering, Inc.
Jacksonville, Peoria & Shorewood, Illinois

USER NAME =	DESIGNED - BAN	REVISED -
PLOT SCALE = NONE	CHECKED - JOH	REVISED -
PLOT DATE =	DRAWN - TAC	REVISED -
	CHECKED - BAN	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

SOIL BORING LOGS
STRUCTURE NO. 003-0062

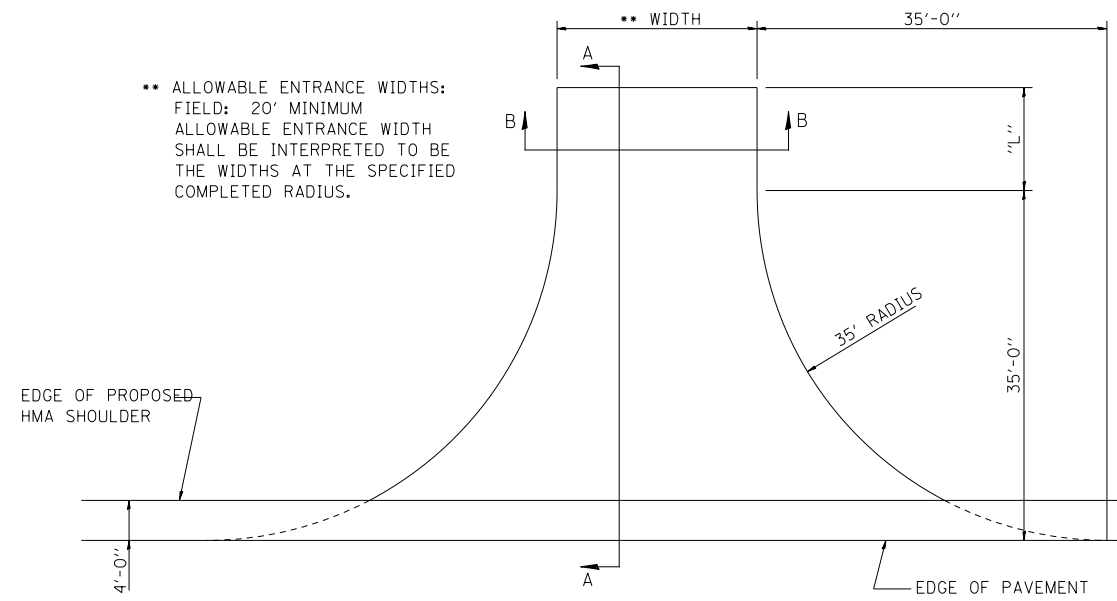
SHEET NO. 54 OF 59 SHEETS

F.A.P. RTE. 793	SECTION (40,112)BR-1	COUNTY BOND	TOTAL SHEETS 95	SHEET NO. 80
			CONTRACT NO. 76967	

ILLINOIS FED. AID PROJECT

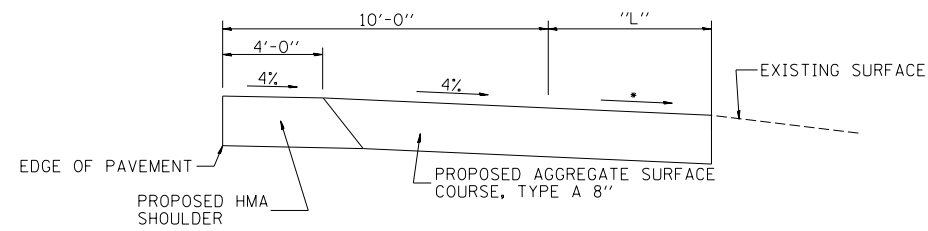
DETAIL OF FIELD ENTRANCES

W/ HOT-MIX ASPHALT SHOULDERS



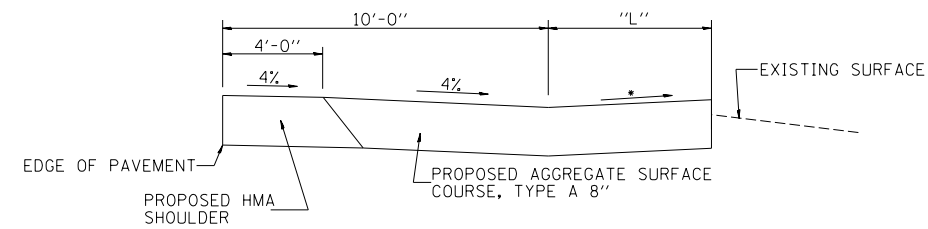
PLAN

STATION	SIDE	WIDTH
375+36.55	RT	20'
394+99.29	LT	20'
395+03.57	RT	20'



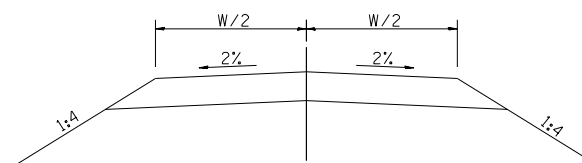
SECTION A-A WITH NEGATIVE GRADE

• SEE CROSS SECTIONS FOR SLOPES



SECTION A-A WITH POSITIVE GRADE

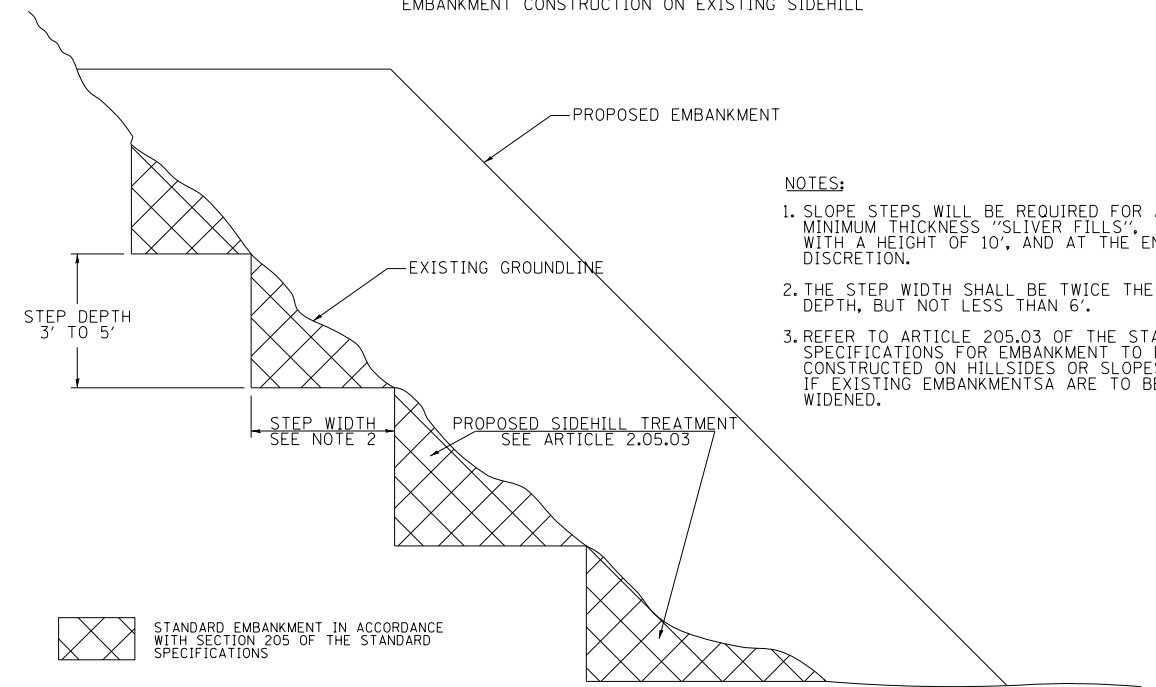
• SEE CROSS SECTIONS FOR SLOPES



SECTION B-B

SLOPE BENCHING DETAIL

EMBANKMENT CONSTRUCTION ON EXISTING SIDEHILL



NOTES:

- SLOPE STEPS WILL BE REQUIRED FOR ALL 12" MINIMUM THICKNESS "SLIVER FILLS", ON FILLS WITH A HEIGHT OF 10', AND AT THE ENGINEER'S DISCRETION.
- THE STEP WIDTH SHALL BE TWICE THE STEP DEPTH, BUT NOT LESS THAN 6'.
- REFER TO ARTICLE 205.03 OF THE STANDARD SPECIFICATIONS FOR EMBANKMENT TO BE CONSTRUCTED ON HILLSIDES OR SLOPES, OR IF EXISTING EMBANKMENTS ARE TO BE WIDENED.



SIGN DETAIL

SIGN DESIGNATION: I-3

FILE NAME =	USER NAME = bborgmen	DESIGNED -	REVISED -
V:\Transportation\3890\CADD SHEETS\0876967-sht-detail.dgn		DRAWN -	REVISED -
		CHECKED -	REVISED -
		DATE -	REVISED -
PLOT SCALE = 1/320000 FT / in.			
PLOT DATE = 1/11/2017			

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

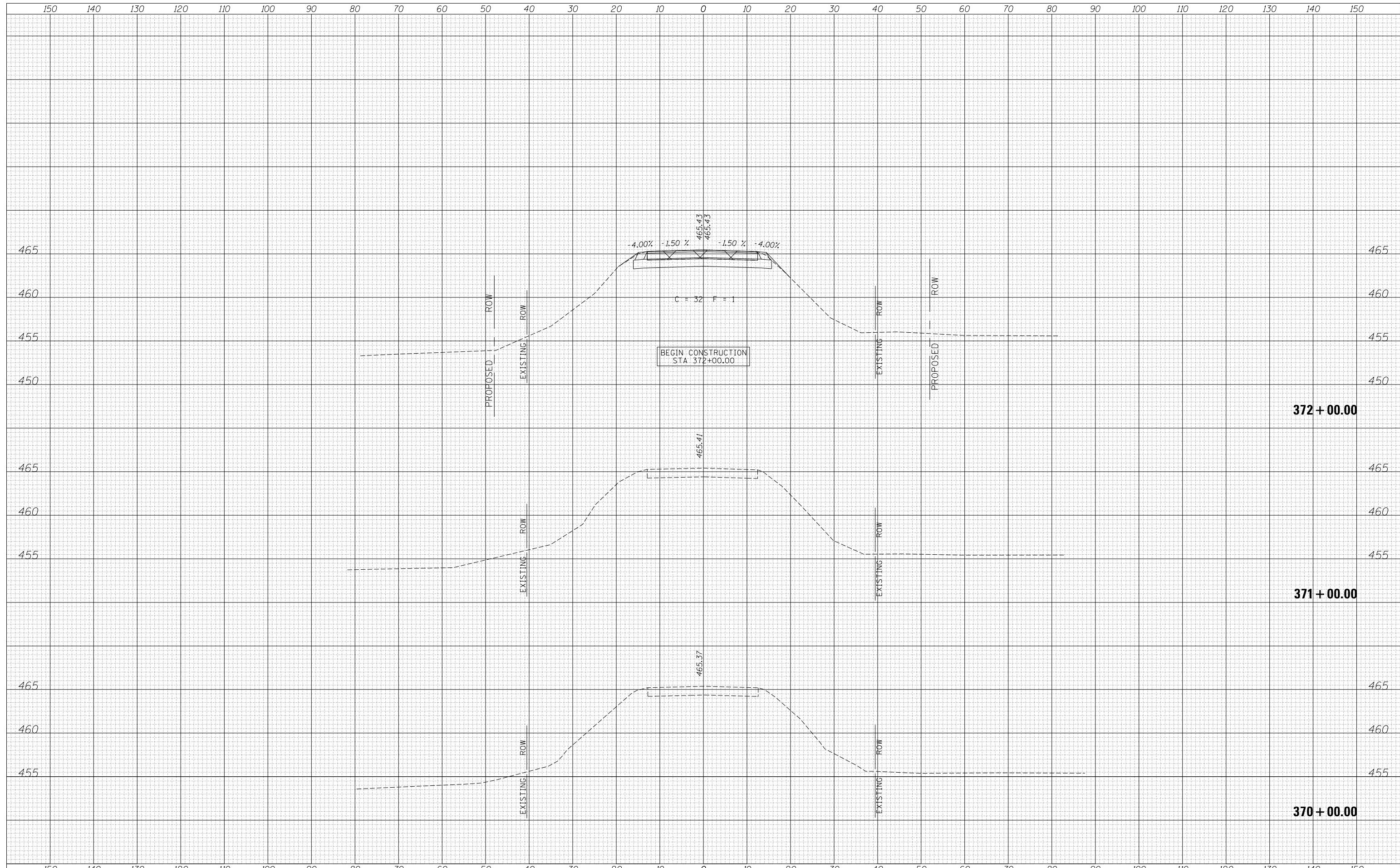
**F.A.P. 793 (IL 143)
DETAILS**

SCALE: NONE SHEET NO. 1 OF 1 SHEETS STA. TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
793	(40, 112)BR-1	BOND	95	86
CONTRACT NO. 76967				
ILLINOIS FED. AID PROJECT				

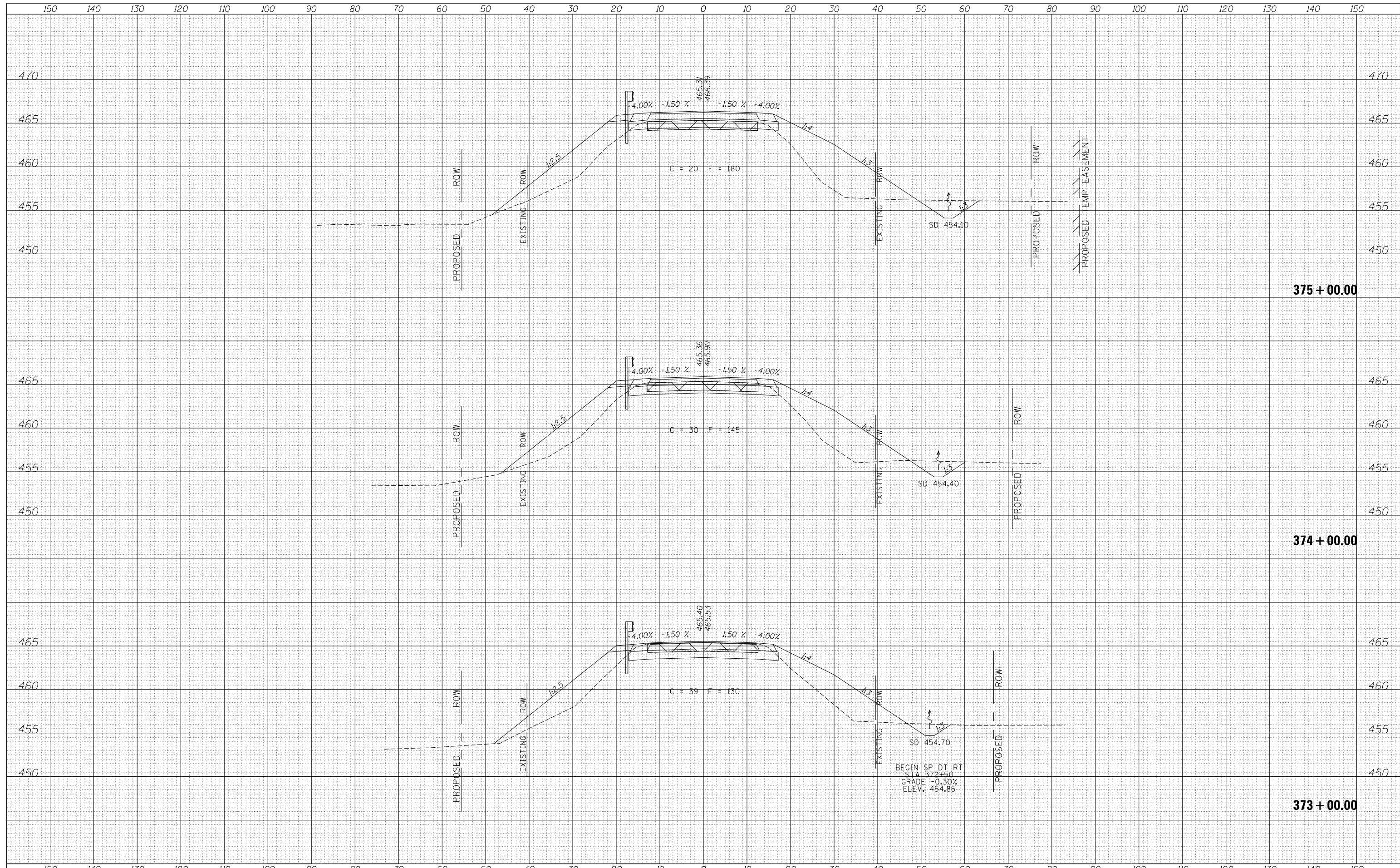
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BY	
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SURVEYED PLOTTED	
NOTE BOOK AREAS CHECKED	
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DATE	
BY	
ORIGINAL SURVEY NO.	
SURVEYED PLOTTED	
NOTE BOOK AREAS CHECKED	
TEMPLATE AREAS CHECKED	



DATE	
BY	
FINISHED SURVEY	
PLOTTED	
TEMPLATE	
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NO.	

DATE	
BY	
ORIGINAL SURVEY	
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TEMPLATE	
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NO.	



FILE NAME =
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 MODELNAME

USER NAME = bborghman	DESIGNED -	REVISED -
	DRAWN -	REVISED -
PLOT SCALE = 20.0000' / in.	CHECKED -	REVISED -
PLOT DATE = 1/11/2017	DATE -	REVISED -

**STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION**

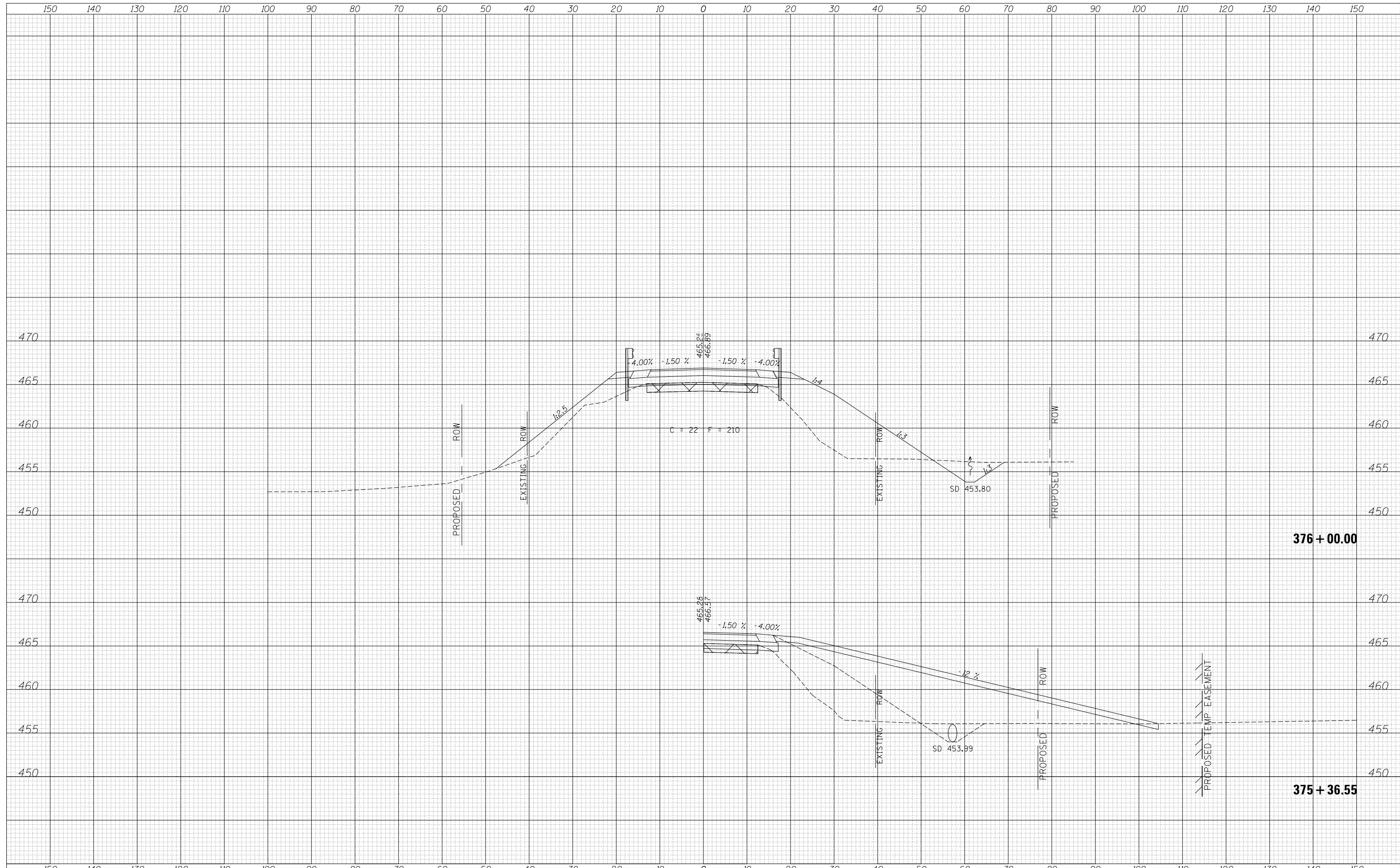
**F.A.P. 793 (IL 143)
 CROSS SECTIONS**

SCALE: SHEET 2 OF 9 SHEETS STA. 373+00.00 TO STA. 375+00.00

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
793	(40, 112)BR-1	BOND	95	88
				CONTRACT NO. 76967
ILLINOIS FED. AID PROJECT				

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

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



FILE NAME =
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USER NAME = bborjmen
 PLOT SCALE = 20.0000' / in.
 PLOT DATE = 1/11/2017

DESIGNED -
 DRAWN -
 CHECKED -
 DATE -

REVISED -
 REVISED -
 REVISED -
 REVISED -

**STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION**

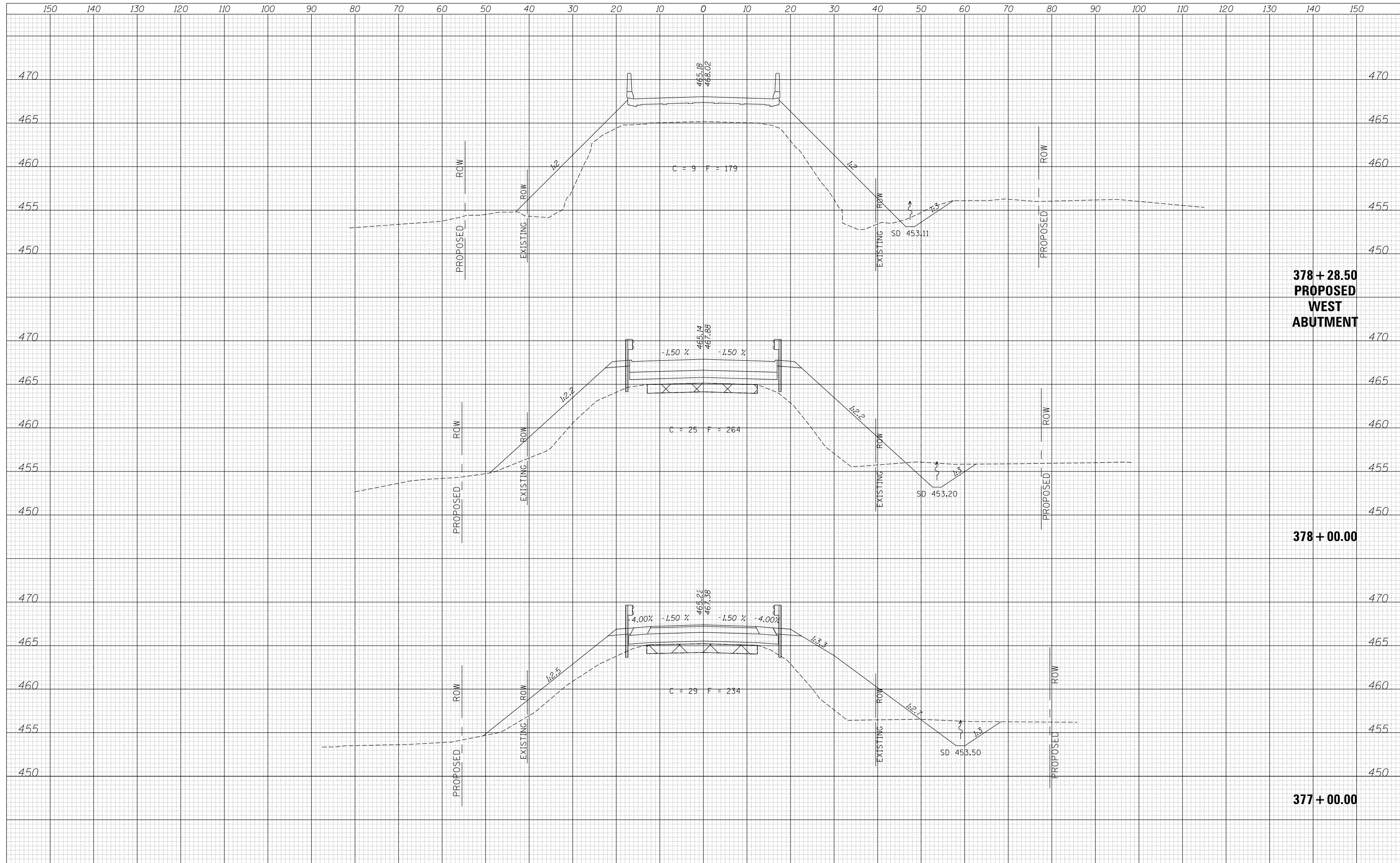
**F.A.P. 793 (IL 143)
 CROSS SECTIONS**

SCALE: SHEET 3 OF 9 SHEETS STA. 375+36.55 TO STA. 376+00.00

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
793	(40, 112)R-1	BOND	95	89
CONTRACT NO. 76967				
ILLINOIS FED. AID PROJECT				

DATE	
BY	
FINISHED SURVEY	
PLOTTED	
TEMPLATE	
AREAS	
CHECKED	
NO.	

DATE	
BY	
ORIGINAL SURVEY	
PLOTTED	
TEMPLATE	
AREAS	
CHECKED	
NO.	



**378 + 28.50
PROPOSED
WEST
ABUTMENT**

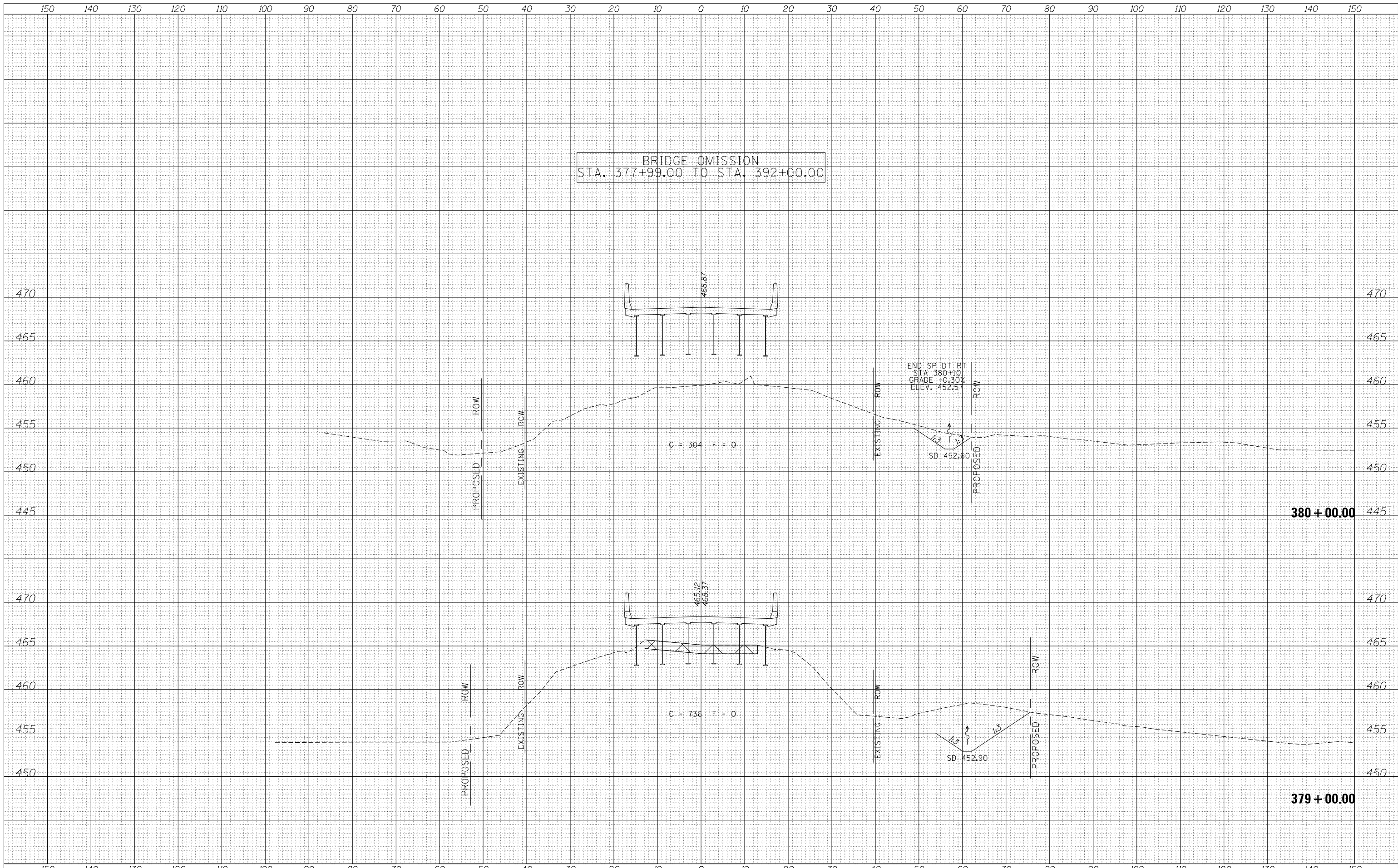
378 + 00.00

377 + 00.00

FILE NAME =	USER NAME = bborjman	DESIGNED -	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	F.A.P. 793 (IL 143) CROSS SECTIONS	F.A.P. R.T.E.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.	
V:\Transportation\3898\CADD SHEETS\0876967-sh-xssh.dgn		DRAWN -	REVISED -			793	(40, 112)R-1	BOND	95	90	
		CHECKED -	REVISED -			CONTRACT NO. 76967					
MODELNAME	DATE = 1/11/2017	DATE -	REVISED -			SCALE:	SHEET 4	OF 9 SHEETS	STA. 377+00.00	TO STA. 378+00.00	ILLINOIS FED. AID PROJECT

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

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



FILE NAME =
 V:\Transportation\3898\CADD SHEETS\0876967-sh-xssh.dgn
 MODELNAME

USER NAME = bborjmen	DESIGNED -	REVISED -
	DRAWN -	REVISED -
PLOT SCALE = 20.0000' / in.	CHECKED -	REVISED -
PLOT DATE = 1/11/2017	DATE -	REVISED -

**STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION**

**F.A.P. 793 (IL 143)
 CROSS SECTIONS**

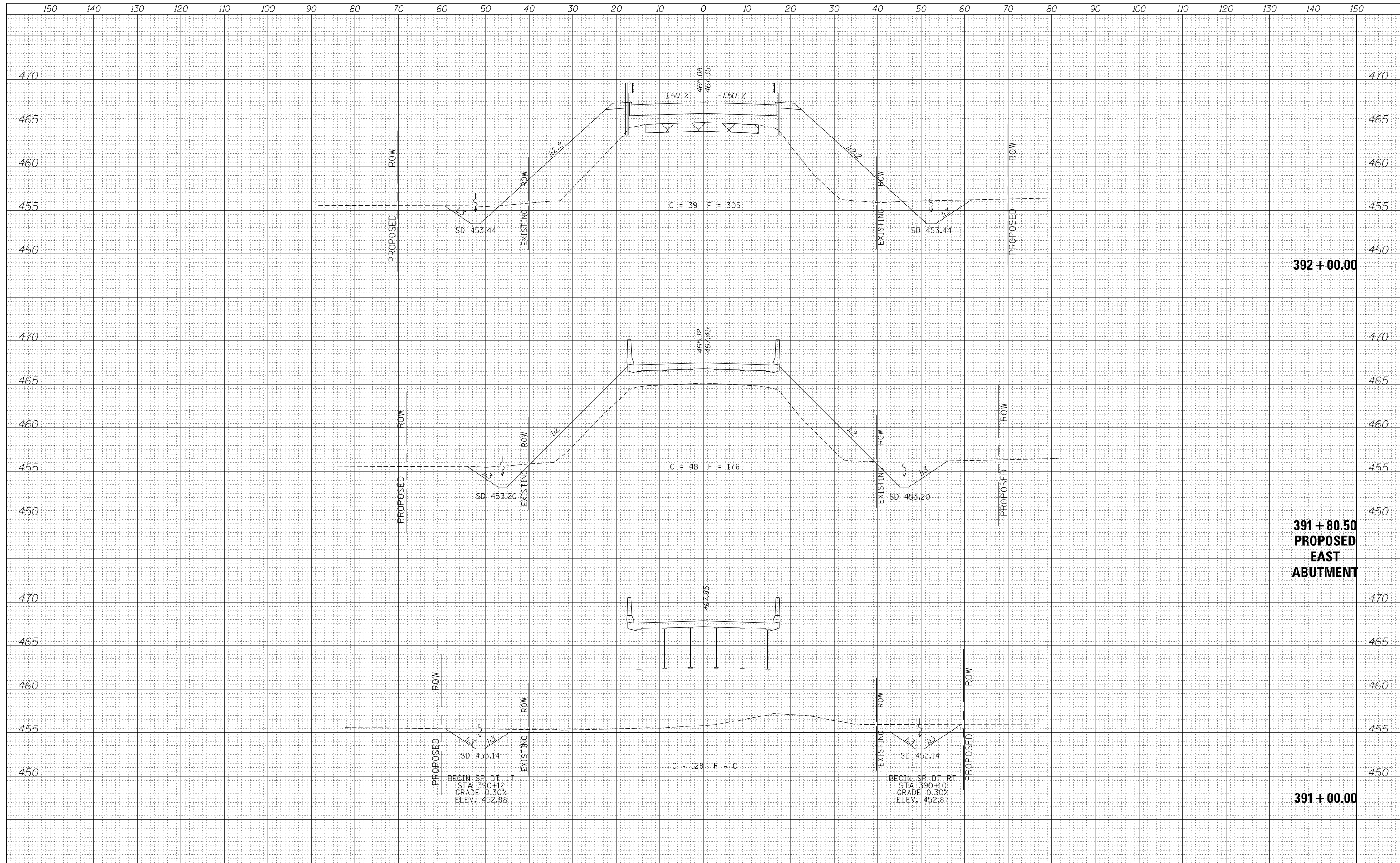
SCALE: SHEET 5 OF 9 SHEETS STA. 379+00.00 TO STA. 380+00.00

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
793	(40, 112)BR-1	BOND	95	91
CONTRACT NO. 76967				

ILLINOIS FED. AID PROJECT

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

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



FILE NAME =
 V:\Transportation\3898\CADD SHEETS\0876967-sh-xssh.dgn

USER NAME = bborjmen
 PLOT SCALE = 20.0000' / in.
 PLOT DATE = 1/11/2017

DESIGNED -	REVISED -
DRAWN -	REVISED -
CHECKED -	REVISED -
DATE -	REVISED -

**STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION**

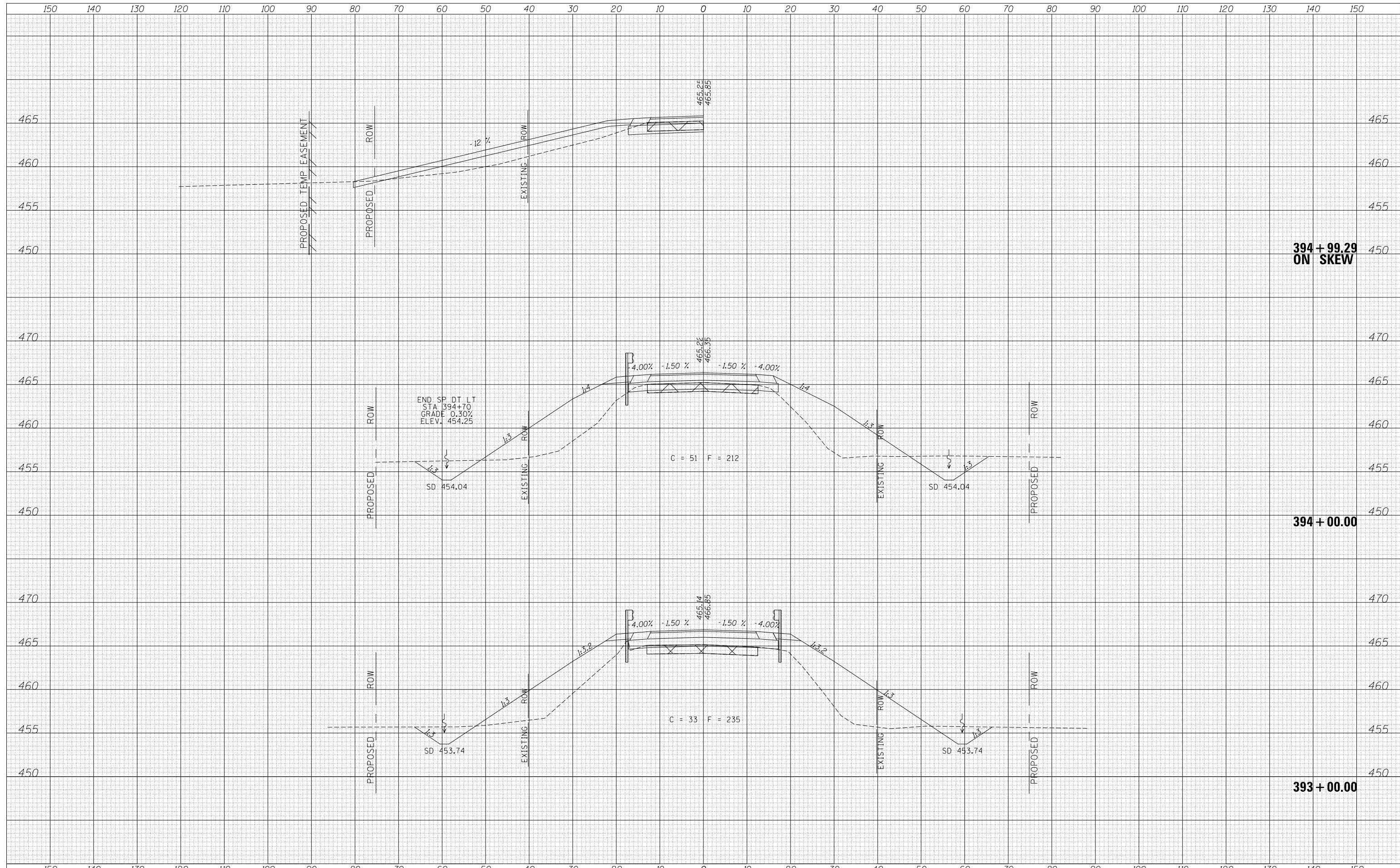
**F.A.P. 793 (IL 143)
 CROSS SECTIONS**

SCALE: SHEET 6 OF 9 SHEETS STA. 390+00.00 TO STA. 392+00.00

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
793	(40, 112)BR-1	BOND	95	92
				CONTRACT NO. 76967
ILLINOIS FED. AID PROJECT				

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

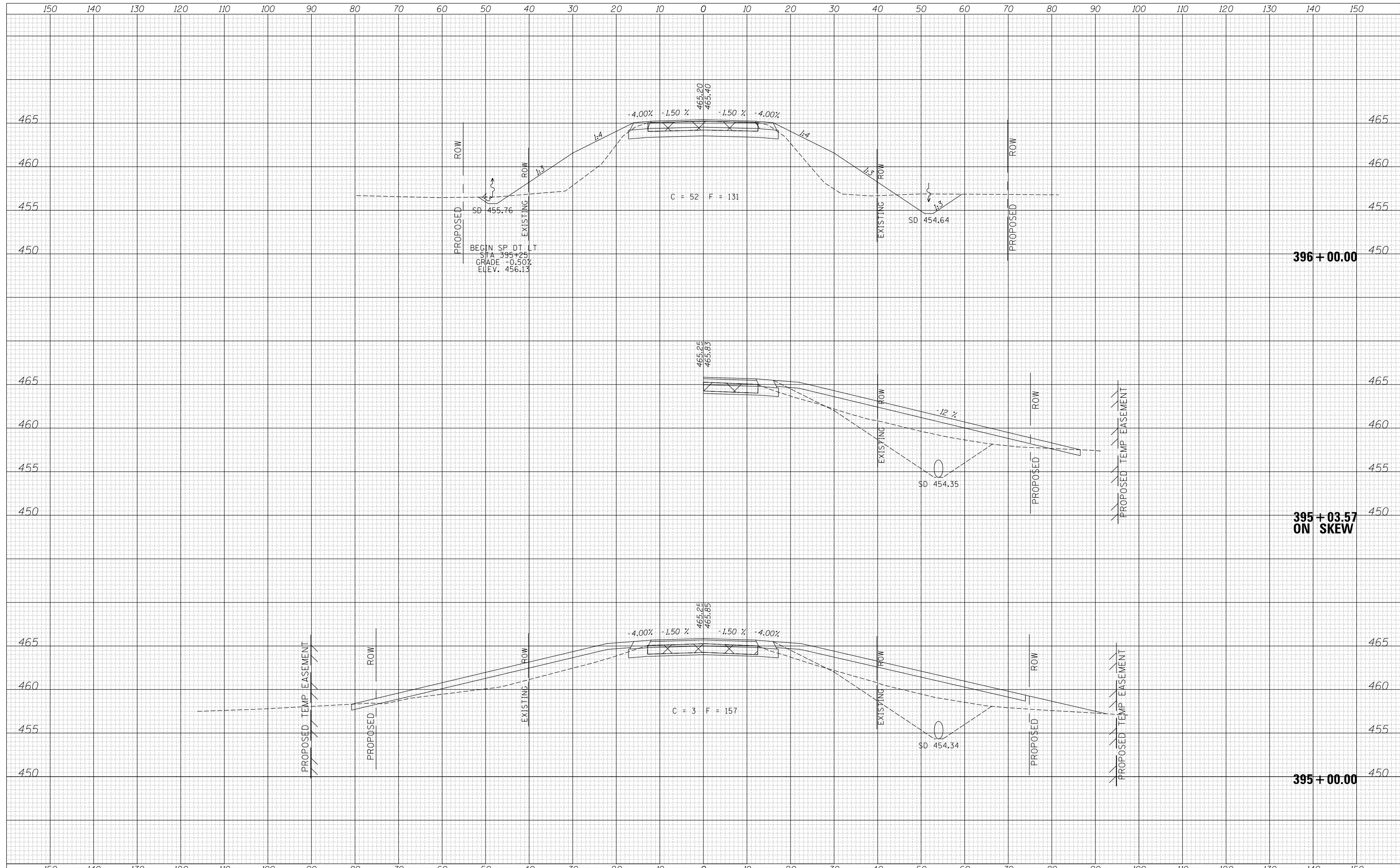
DATE	
BY	
ORIGINAL SURVEY NO.	
SURVEYED PLOTTED TEMPLATE AREAS CHECKED	
NOTE BOOK AREAS CHECKED	



FILE NAME =	USER NAME = bborghen	DESIGNED -	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	F.A.P. 793 (IL 143) CROSS SECTIONS	F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.	
V:\Transportation\3898\CADD SHEETS\0876967-sh-xssh.dgn		DRAWN -	REVISED -			793	(40, 112)BR-1	BOND	95	93	
PLOT SCALE = 20.0000' / in.		CHECKED -	REVISED -			CONTRACT NO. 76967					
MODELNAME\$		DATE -	REVISED -			SCALE:	SHEET 7	OF 9 SHEETS	STA. 393+00.00	TO STA. 394+99.29	ILLINOIS FED. AID PROJECT

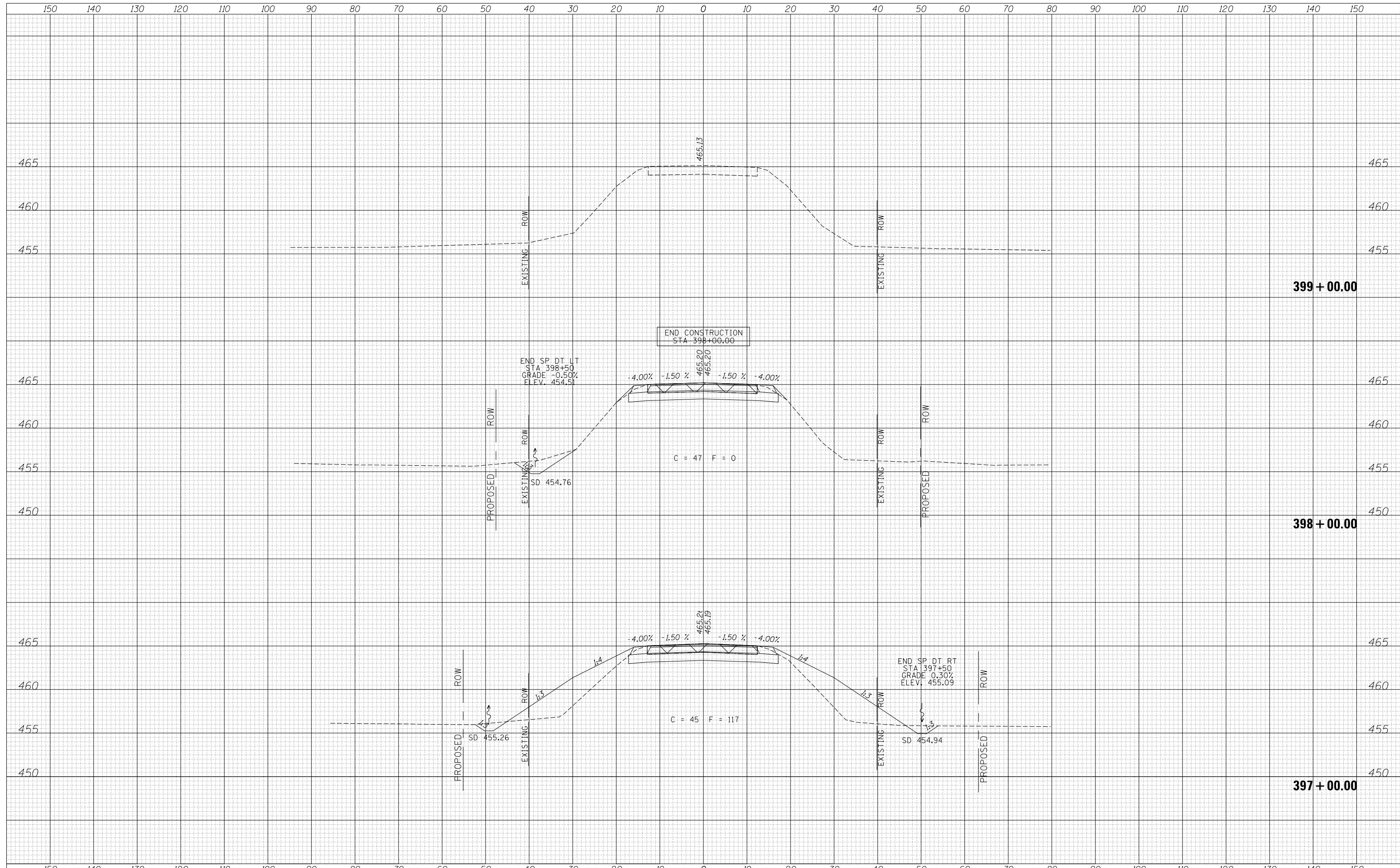
DATE	
BY	
FINAL SURVEY	SURVEYED
NOTE BOOK	PLOTTED
NO.	TEMPLATE
	AREAS CHECKED
	AREAS CHECKED

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



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

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



FILE NAME =
 V:\Transportation\3898\CADD SHEETS\0876967-sh-xssh.dgn
 MODELNAME

USER NAME = bborgerm	DESIGNED -	REVISED -
	DRAWN -	REVISED -
PLOT SCALE = 20.0000' / in.	CHECKED -	REVISED -
PLOT DATE = 1/11/2017	DATE -	REVISED -

**STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION**

**F.A.P. 793 (IL 143)
 CROSS SECTIONS**

SCALE: SHEET 9 OF 9 SHEETS STA. 397+00.00 TO STA. 399+00.00

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
793	(40, 112)BR-1	BOND	95	95
				CONTRACT NO. 76967
ILLINOIS FED. AID PROJECT				