



01-15-2016 LETTING ITEM 053

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

PLANS FOR PROPOSED
HIGHWAY BRIDGE PROGRAM

TOWNSHIP ROUTE 332 (GREEN MEADOW ROAD)

EASTERN TOWNSHIP

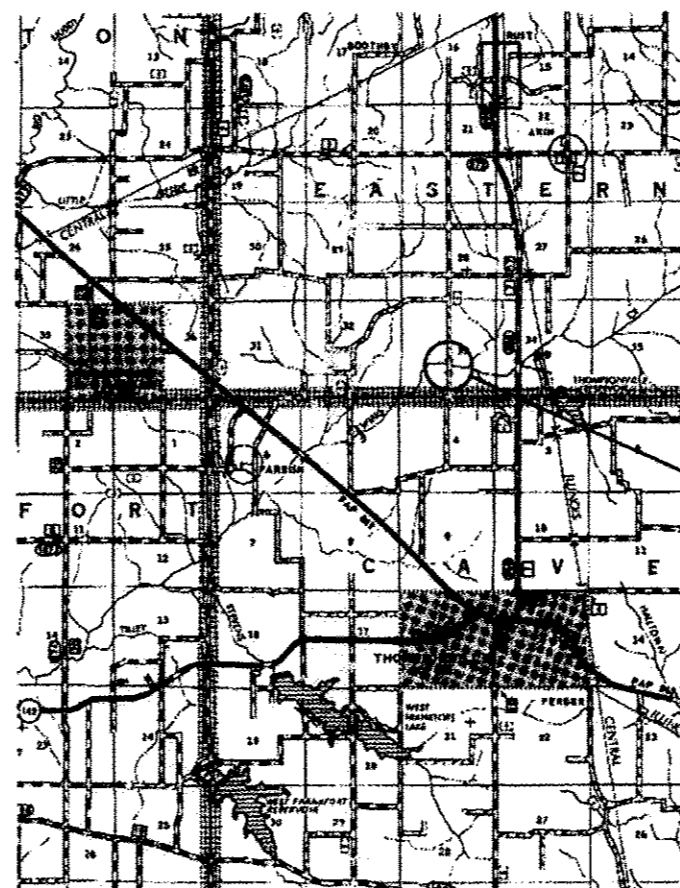
SECTION 09-06130-00-BR

PROJECT NO. BROS-0055(063)

JOB NO. C-99-532-10

EWING CREEK

FRANKLIN COUNTY

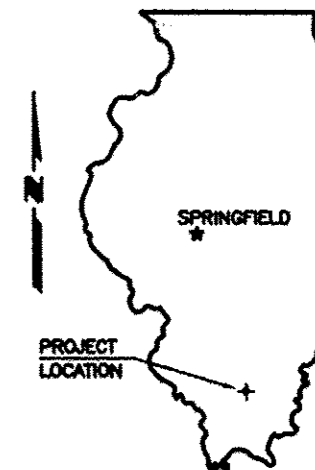


LOCATION MAP

SCALE: 1" = 2 MILES

NET LENGTH OF IMPROVEMENT = 440.00 FT. = 0.0833 MILES

ROUTE	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
TR 332	09-06130-00-BR	FRANKLIN	12	1
PROJECT NO. BROS-0055(063)			CONTRACT NO. 99545	



INDEX OF SHEETS

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 2. PLAN AND PROFILE
 3. GENERAL PLAN AND ELEVATION
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 5. 33" X 36" PPC DECK BEAM DETAILS
 6. 33" X 48" PPC DECK BEAM
 7. 33" X 48" PPC DECK BEAM DETAILS
 8. ABUTMENT
 9. STEEL RAILING, TYPE S1
 10. NAME PLATES
 11. PILING DETAILS
 12. CROSS SECTIONS
- STANDARDS 000001-06 STANDARD SYMBOLS, ABBREVIATIONS AND PATTERNS
- 280001-07 TRMPORARY EROSION CONTROL SYSTEMS
- 635006-03 REFLECTOR AND TERMINAL MARKER PLACEMENT
- 701901-04 TRAFFIC CONTROL DEVICES
- BLR 21-9 TYPICAL APPLICATION OF TRAFFIC CONTROL DEVICES

CLASSIFICATION : LOCAL ROAD (RURAL)
ADT : 25
DESIGN SPEED : 30 MPH

ILLINOIS DEPARTMENT OF TRANSPORTATION	
Approved	<u>9/25/2015</u> <i>[Signature]</i> Eastern Township Road Commissioner
Approved	<u>9/25/2015</u> <i>[Signature]</i> Franklin County Engineer
Passed	<u>10/15/2015</u> <i>[Signature]</i> District 9 Engineer of Local Roads and Streets
Releasing for Bid Based on Limited Review	<u>10/15/2015</u> <i>[Signature]</i> Deputy Director of Highways, Region 5 Engineer Illinois Department of Transportation

SUMMARY OF QUANTITIES

CODE NO.	PAY ITEM	UNIT	TOTAL
* X2501000	SEEDING, CLASS 2 (SPECIAL)	ACRE	0.2
20200100	EARTH EXCAVATION	CU YD	13
* 20300100	CHANNEL EXCAVATION	CU YD	77
* 28100809	STONE DUMPED RIPRAP, CLASS A5	TON	173
* 40200800	AGGREGATE SURFACE COURSE, TYPE B	TON	347
* 50100100	REMOVAL OF EXISTING STRUCTURES	EACH	1
50200100	STRUCTURE EXCAVATION	CU YD	91
50300225	CONCRETE STRUCTURES	CU YD	24.6
50300280	CONCRETE ENCASEMENT	CU YD	2.7
50400605	PRECAST PRESTRESSED CONCRETE DECK BEAMS (33" DEPTH)	SQ FT	1,812
50800105	REINFORCEMENT BARS	POUND	2,874
Δ 50900205	STEEL RAILING, TYPE S1	FOOT	154
51201500	FURNISHING STEEL PILES HP10X57	FOOT	424
51202305	DRIVING PILES	FOOT	424
51500100	NAME PLATES	EACH	1
59300100	CONTROLLED LOW-STRENGTH MATERIAL	CU YD	20.5
67100100	MOBILIZATION	L SUM	1
Δ 78201000	TERMINAL MARKER - DIRECT APPLIED	EACH	4

* SEE SPECIAL PROVISIONS Δ SPECIALTY ITEMS

CONTRACT NO. 99545



E. MILLER ENGINEERING, INC.
CONSULTING ENGINEERS
HARRISBURG, ILLINOIS

John S. Peradotti 4-27-15
John S. Peradotti
PROFESSIONAL ENGINEER
#062-050510
EXPIRES NOV. 30, 2015

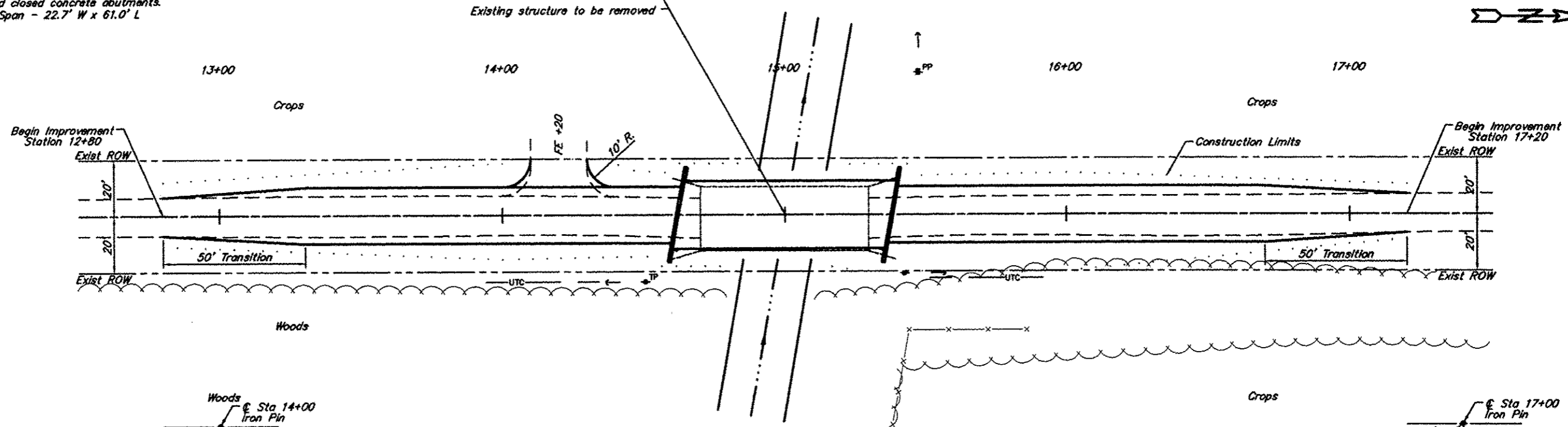
ROUTE	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
TR 332	09-08130-00-BR	FRANKLIN	12	2
PROJECT NO. BROS-0085(063)			CONTRACT NO. 99545	

B.M. - Dbl Nails in Telephone Pole
21' Rt. Sta. 15+43
Elev. 429.00

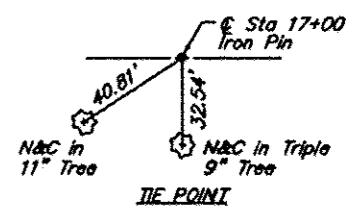
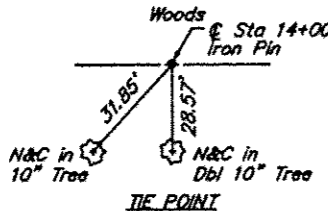
Existing Structure - PRC deck beams on concrete caps & piles with open piers and closed concrete abutments.
3 Span - 22.7' W x 61.0' L

Station 15+00 - Single span precast prestressed concrete deck beam bridge
77'-1 1/2" bk-bk Abutments
Skewed 10° Lt. Forward

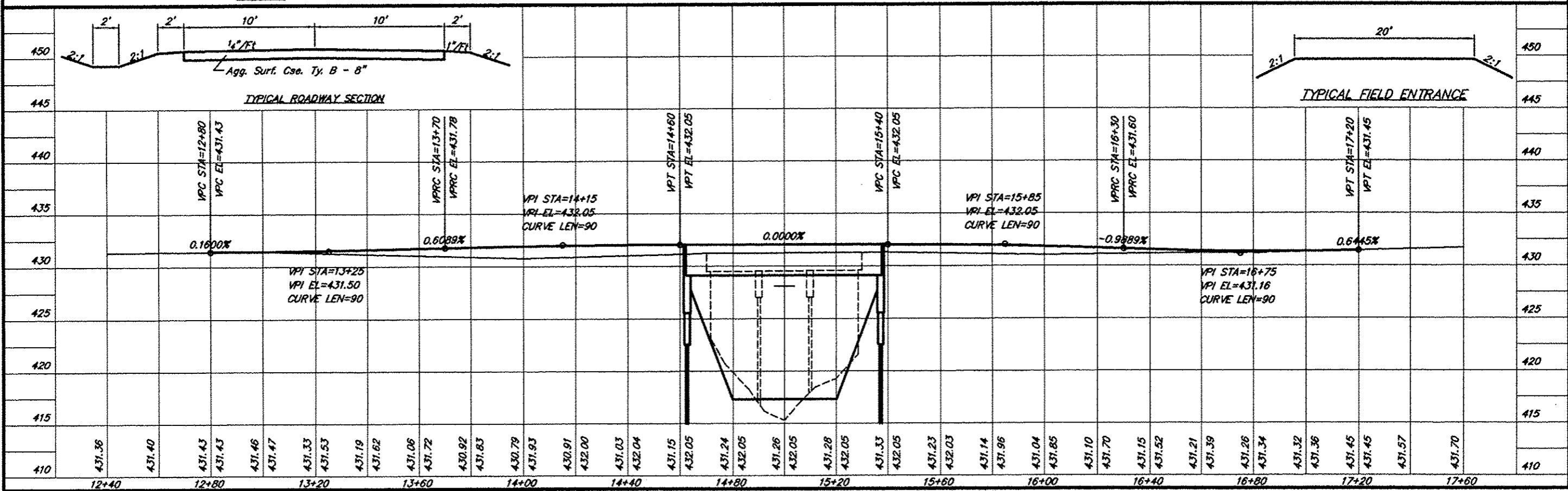
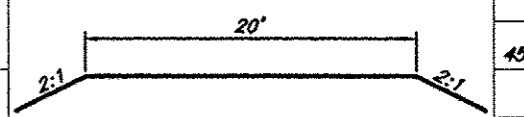
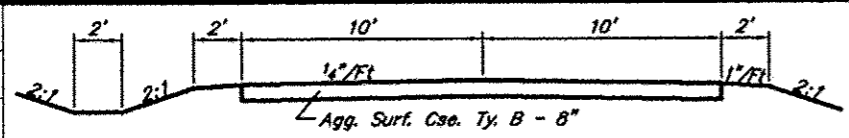
Existing structure to be removed



SCALES:
1" = 40' HOR
1" = 10' VER

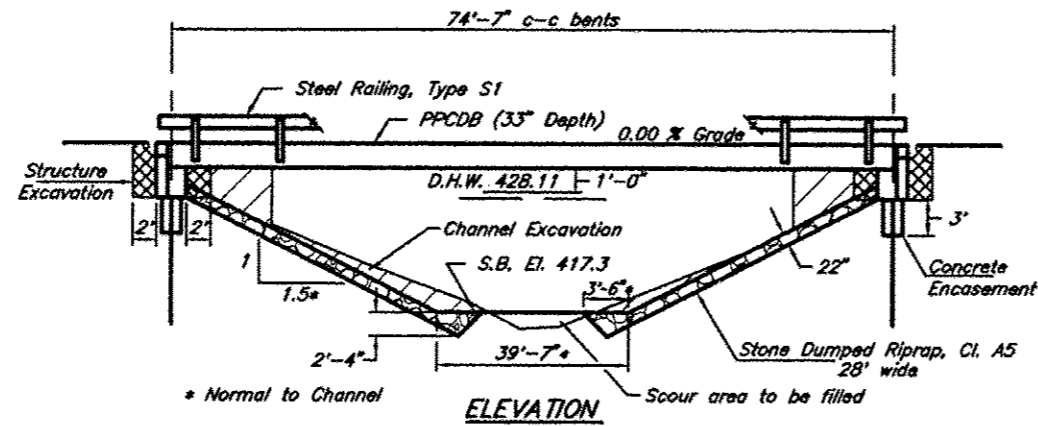


Note: Any tree removal necessary to construct the roadway embankment shall be considered incidental to the various earthwork quantities and no additional compensation shall be allowed.



B.M. - Double nail in Telephone Pole
 21' Rt. Station 15+43
 Elev. 429.00 (Assumed)

ROUTE	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
TR 332	09-06130-00-BR	FRANKLIN	12	3
PROJECT NO. BROS-0055(063)			CONTRACT NO. 99545	



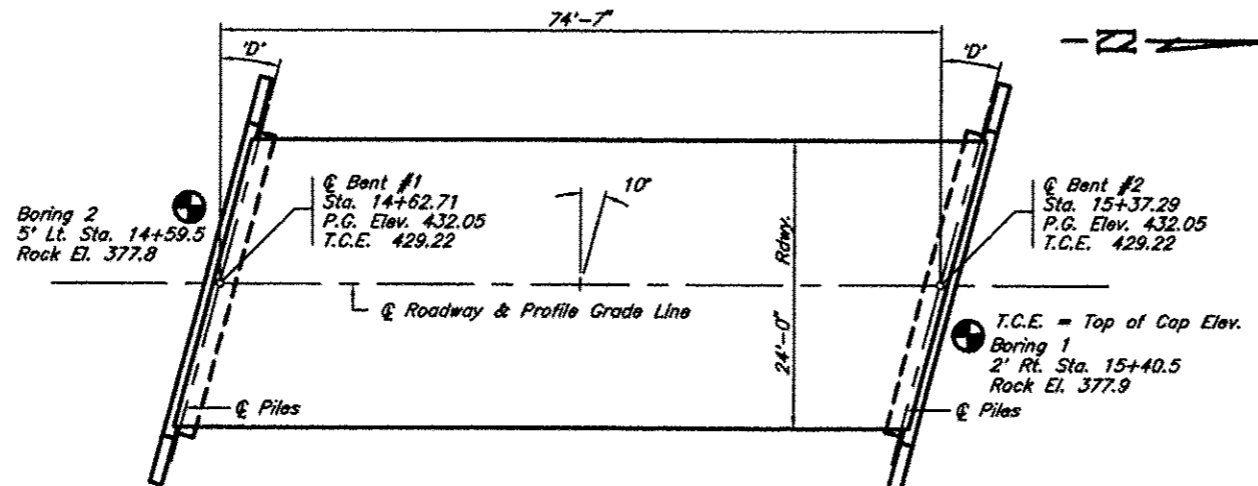
Existing Structure - PRC deck beams on concrete caps & piles with open piers and closed concrete plank abutments. 3 span - 22.7' W x 61.0' L

GENERAL NOTES

- Steel H piles shall meet AASHTO M270 Grade 50 specifications.
- See special provisions for boring logs.
- A Corrosion inhibitor, as covered in the Standard Specifications, shall be used in the precast prestressed concrete deck beams.

TOTAL BILL OF MATERIAL

Item	Unit	Super	Sub.		Total
			Piers	Abuts.	
Channel Excavation	Cu. Yds.			77	77
Stone Dumped Riprap, Cl. A5	Tons			173	173
Removal of Existing Structures	Each				1
Structure Excavation	Cu. Yds.			91	91
Concrete Structures	Cu. Yds.			24.6	24.6
Concrete Encasement	Cu. Yds.			2.7	2.7
P.P. Conc. Dk. Bm. 33" Dp.	Sq. Ft.	1,812			1,812
Reinforcement Bars	Pound			2,874	2,874
Steel Railing, Type S1	Foot	154			154
Furnishing Steel Piles HP10X57	Foot			424	424
Driving Piles	Foot			424	424
Name Plates	Each			1	1

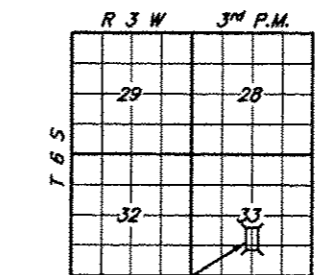


Skew Angle "D" = 10° Left Forward

EWING CREEK
 SEC. 09-06130-00-BR BUILT 20
 EASTERN TOWNSHIP
 FRANKLIN COUNTY
 LOADING HL-93
 STR. NO. 028-3412

LETTERING FOR NAME PLATE

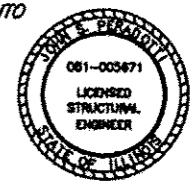
Locate Name Plate at southeast Corner of Bridge (See Sheet B)



LOCATION SKETCH

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

John S. Paradotti 4-23-15
 John S. Paradotti
 S.E. #081-005671
 Expires Nov. 30, 2016



PILE DATA (2-ABUTS.)

Type & Size : HP10X57
 Nominal Required Bearing : 369 kips
 Factored Resistance Available : Refusal
 Estimated Length : 53 Feet
 Number Required : 8

DESIGN SPECIFICATIONS

2014 AASHTO LRFD Bridge Design Specifications and all applicable Interims.

LOADING HL-93

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

SEISMIC DATA

Soil Site Class = D
 Design Spectral Acceleration at 0.2 sec. (S_{0.2}) = 0.772
 Design Spectral Acceleration at 1.0 sec. (S_{1.0}) = 0.326
 Seismic Performance Zone (SPZ) = 3

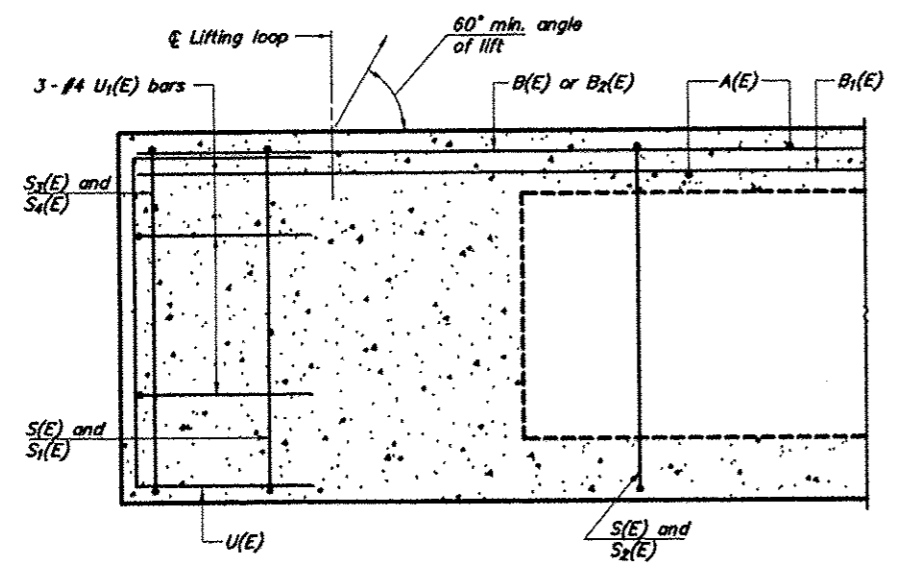
WATERWAY INFORMATION

Flood	Freq. Yr.	Q C.F.S.	Opening Sq. Ft.		Natural Head-Ft.		At Sta. 12+00		
			Exist.	Prop.	Exist.	Prop.	Exist.	Prop.	
Design	15	3,980	540.1	602.8	428.11	0.60	0.00	428.81	428.11
Base	100	6,570	612.5	673.8	429.40	2.69	0.89	432.09	430.29
Overtopping	±134	7,028		673.8	429.53		1.77		431.30
Max. Calc.	500								

Over Road Flow (Sq Ft): Exist. 778.2

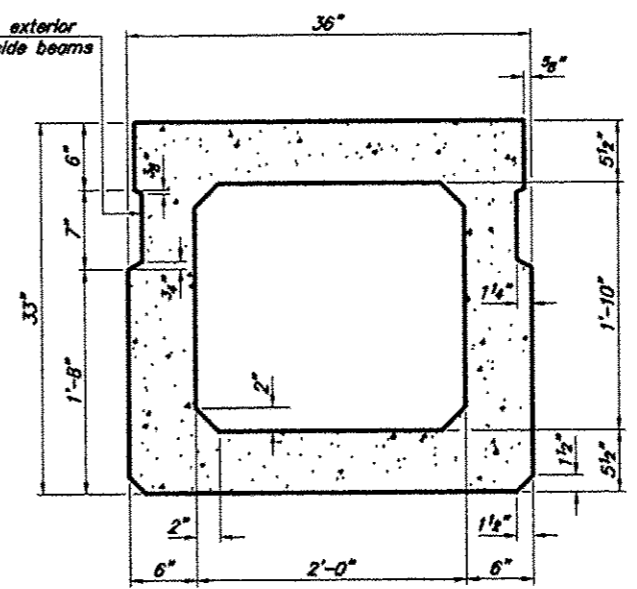
GENERAL PLAN & ELEVATION
 TOWNSHIP ROUTE 332 (GREEN MEADOW ROAD)
 EWING CREEK
 SECTION 09-06130-00-BR
 FRANKLIN COUNTY
 STRUCTURE NO. 028-3412

ROUTE	SECTION	COUNTY	TOTAL SHEETS	SHEET NO
TR 332	09-06130-00-BR	FRANKLIN	12	4
PROJECT NO. BROS-0055(063)			CONTRACT NO. 08545	

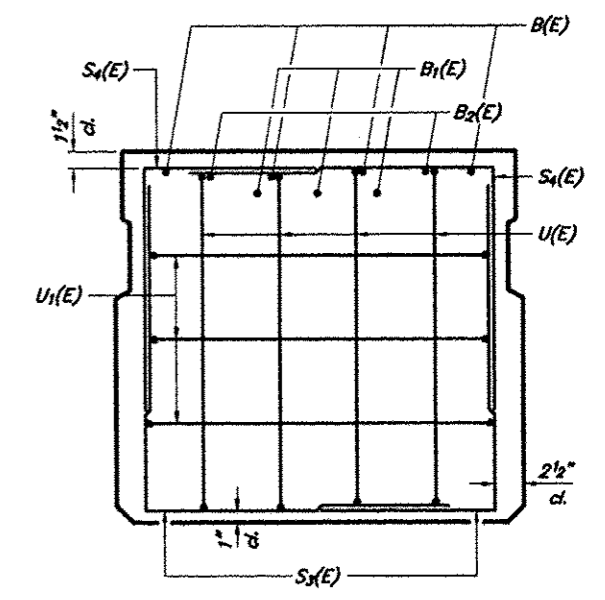


SECTION A-A

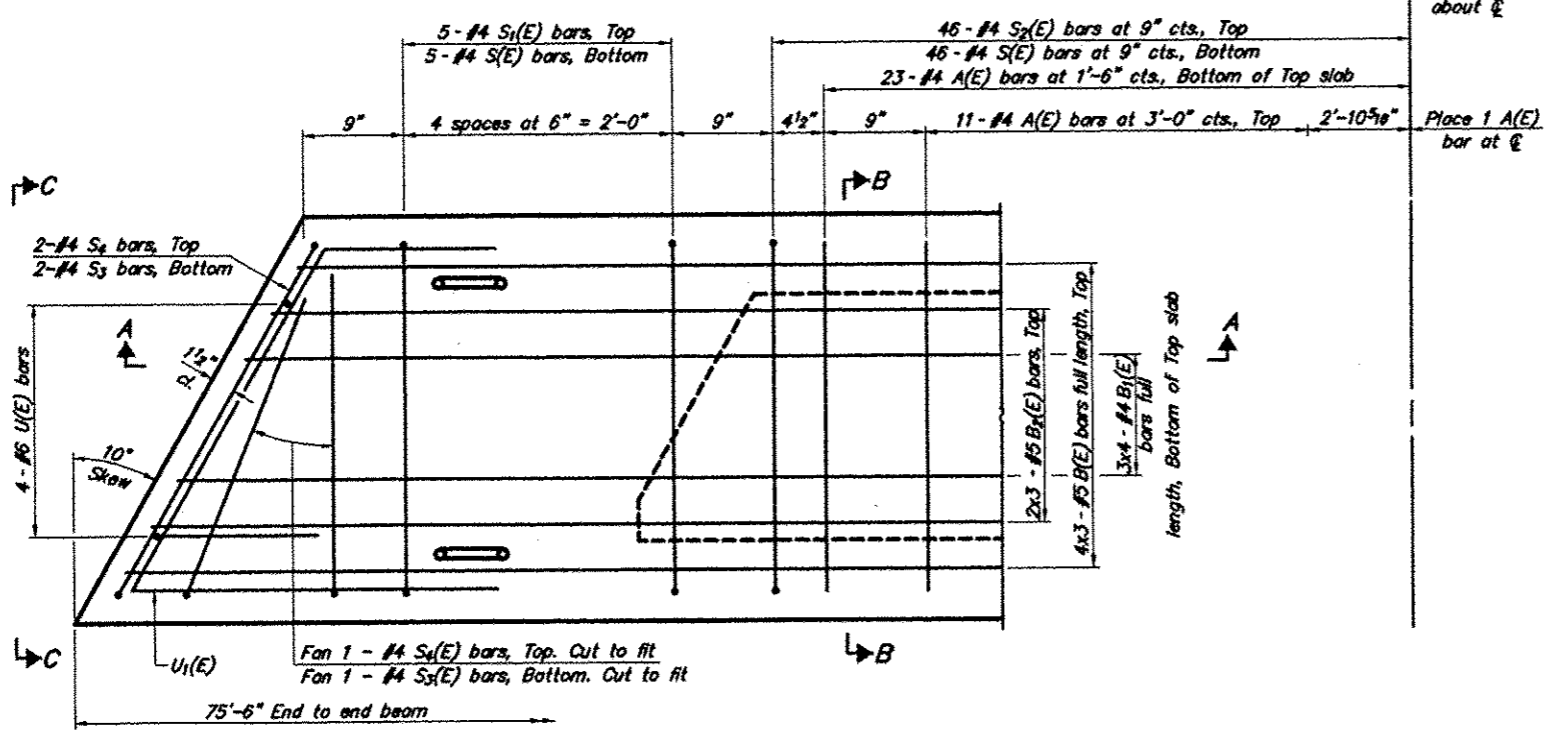
Omit key on exterior face of outside beams



SECTION B-B
(Showing dimensions)



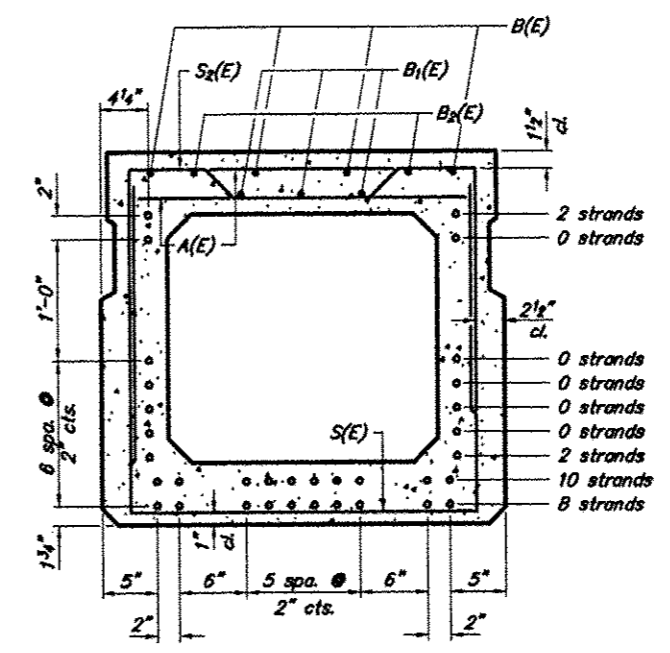
VIEW C-C



PLAN VIEW

Similar about centerline

Place 1 A(E) bar at centerline



SECTION B-B

(Showing reinforcement and permissible strand locations)

Note: Place the number of strands specified in each row symmetrically about the centerline of beam in the permissible strand locations shown.

BAR LIST
ONE BEAM ONLY
(For information only)

Bar	No.	Size	Length	Shape
A(E)	69	#4	2'-7"	—
B(E)	12	#5	26'-9"	—
B1(E)	12	#4	20'-4"	—
B2(E)	6	#5	26'-9"	—
S(E)	102	#4	7'-5"	—
S1(E)	10	#4	6'-3"	—
S2(E)	92	#4	6'-6"	—
S3(E)	6	#4	4'-7"	—
S4(E)	6	#4	4'-0"	—
U(E)	8	#6	5'-0"	—
U1(E)	6	#4	5'-6"	—

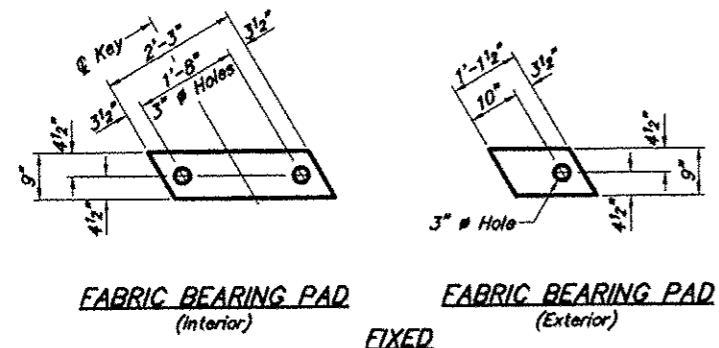
See sheet 5 of 12 for additional details and BIM of Materials.
Bars noted thus 4x2-#5 etc. indicates 4 lines of bars with 2 lengths per line.

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

MINIMUM BAR LAP
#4 bar = 2'-0"
#5 bar = 2'-6"

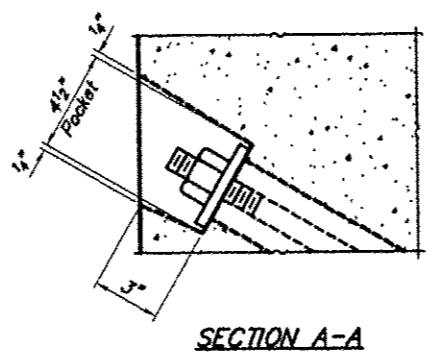
33" X 36" PPC DECK BEAM
TOWNSHIP ROUTE 332 (GREEN MEADOW ROAD)
EWING CREEK
SECTION 09-06130-00-BR
FRANKLIN COUNTY
STRUCTURE NO. 028-3412

ROUTE	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
TR 332	09-06130-00-BR	FRANKLIN	12	5
PROJECT NO. BROS-0055(063)			CONTRACT NO. 99545	

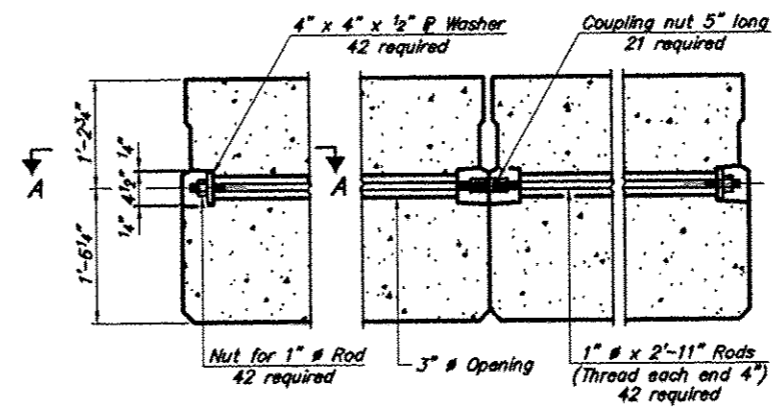


FABRIC BEARING PAD
(Interior) **FIXED**
FABRIC BEARING PAD
(Exterior)

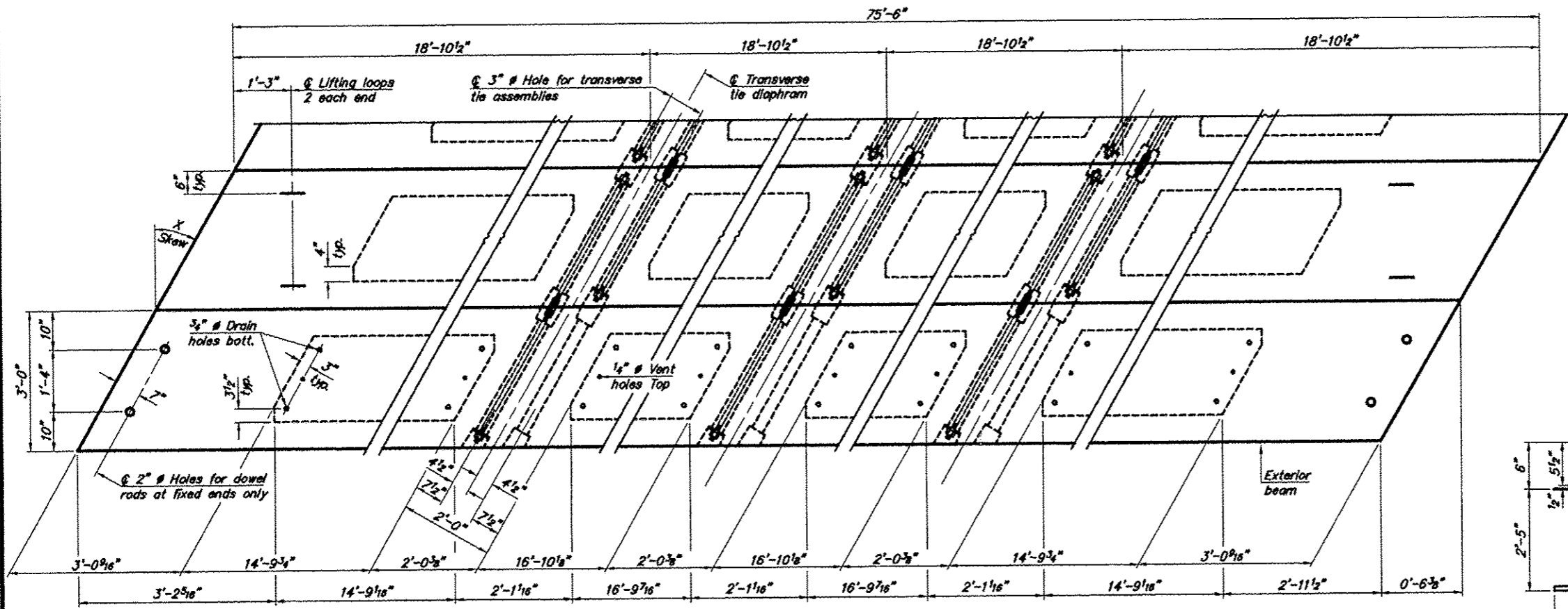
Notes: All bearing pads shall be 1" thick.
Omit holes when using expansion bearings.
Bond expansion bearing pads to substructure.



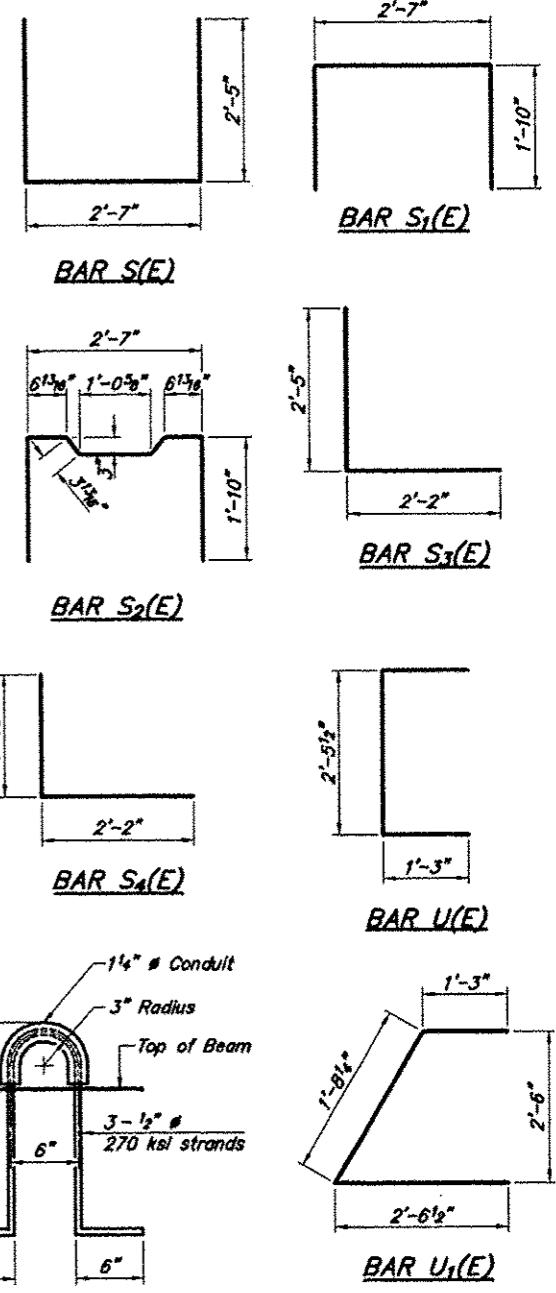
SECTION A-A



TYPICAL TRANSVERSE TIE ASSEMBLY

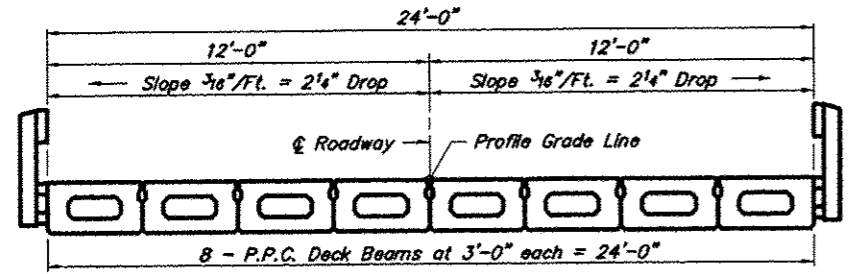


PLAN VIEW



LIFTING LOOP DETAIL

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



CROSS SECTION

NOTES

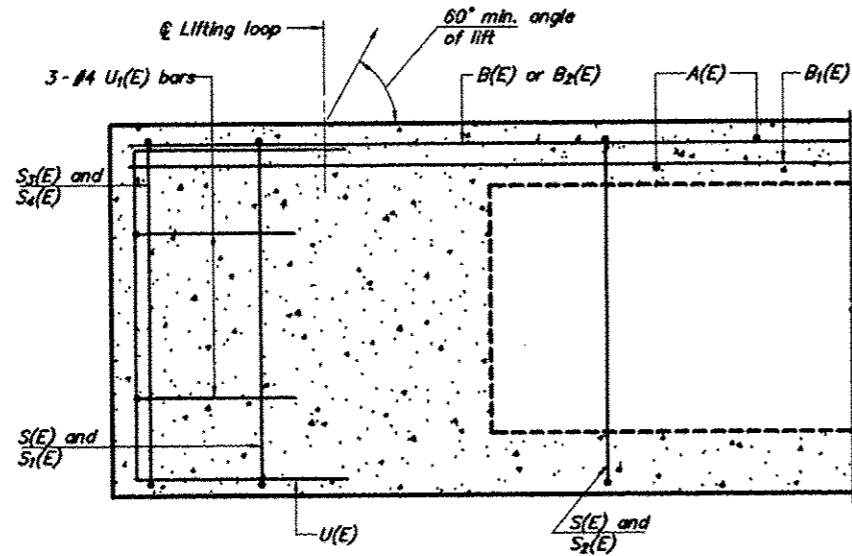
Prestressing steel shall be uncoated high strength, low relaxation 7-wire strand, Grade 270. The nominal diameter shall be 1/2" and the nominal cross-sectional area shall be 0.153 sq. in. The 1" # rods in the transverse tie assembly shall be tightened to a snug fit and the threads set. Pockets on exterior faces of bridge shall be filled with grout after transverse tie assembly is in place.
Reinforcement bars shall conform to ASTM A 706, Grade 60. (See Special Provisions).
Two 1/8" fabric adjusting shims of the dimensions of the exterior bearing pad shall be provided for each bearing pad location.
A minimum 2 1/2" # lifting pin shall be used to engage the lifting loops during handling.
Corrosion inhibitor, per Article 1020.05(b)(12) and 1021.06 of the Standard Specifications, shall be used in the concrete for precast prestressed concrete deck beams.
Compressive strength of prestressed concrete, f_c , shall be 6000 psi.
Compressive strength of prestressed concrete at release, f_{ci} , shall be 5000 psi.

BILL OF MATERIAL

Precast Prestressed Conc. Deck Bms. (33" depth)	Sq. Ft.	1,812
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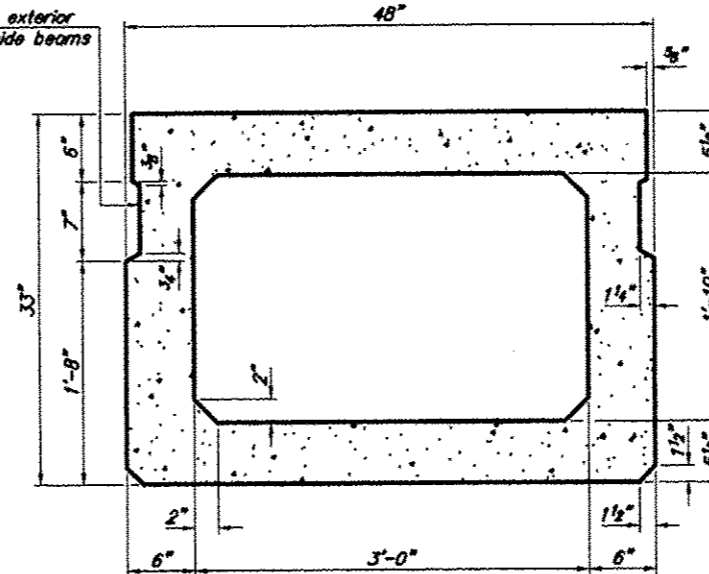
33" X 36" PPC DECK BEAM DETAILS
TOWNSHIP ROUTE 332 (GREEN MEADOW ROAD)
EWING CREEK
SECTION 09-06130-00-BR
FRANKLIN COUNTY
STRUCTURE NO. 028-3412

ROUTE	SECTION	COUNTY	TOTAL SHEETS	SHEET NO
TR 332	09-06130-00-BR	FRANKLIN	12	6
PROJECT NO. BROS-0055(063)			CONTRACT NO. 89545	

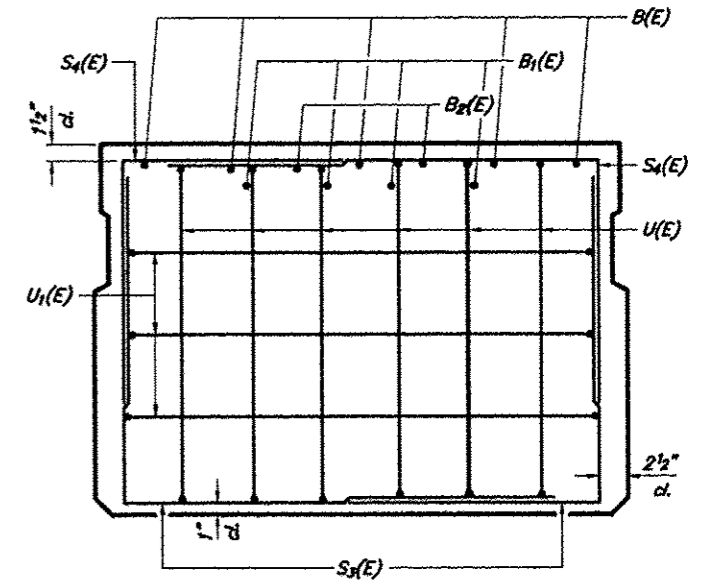


SECTION A-A

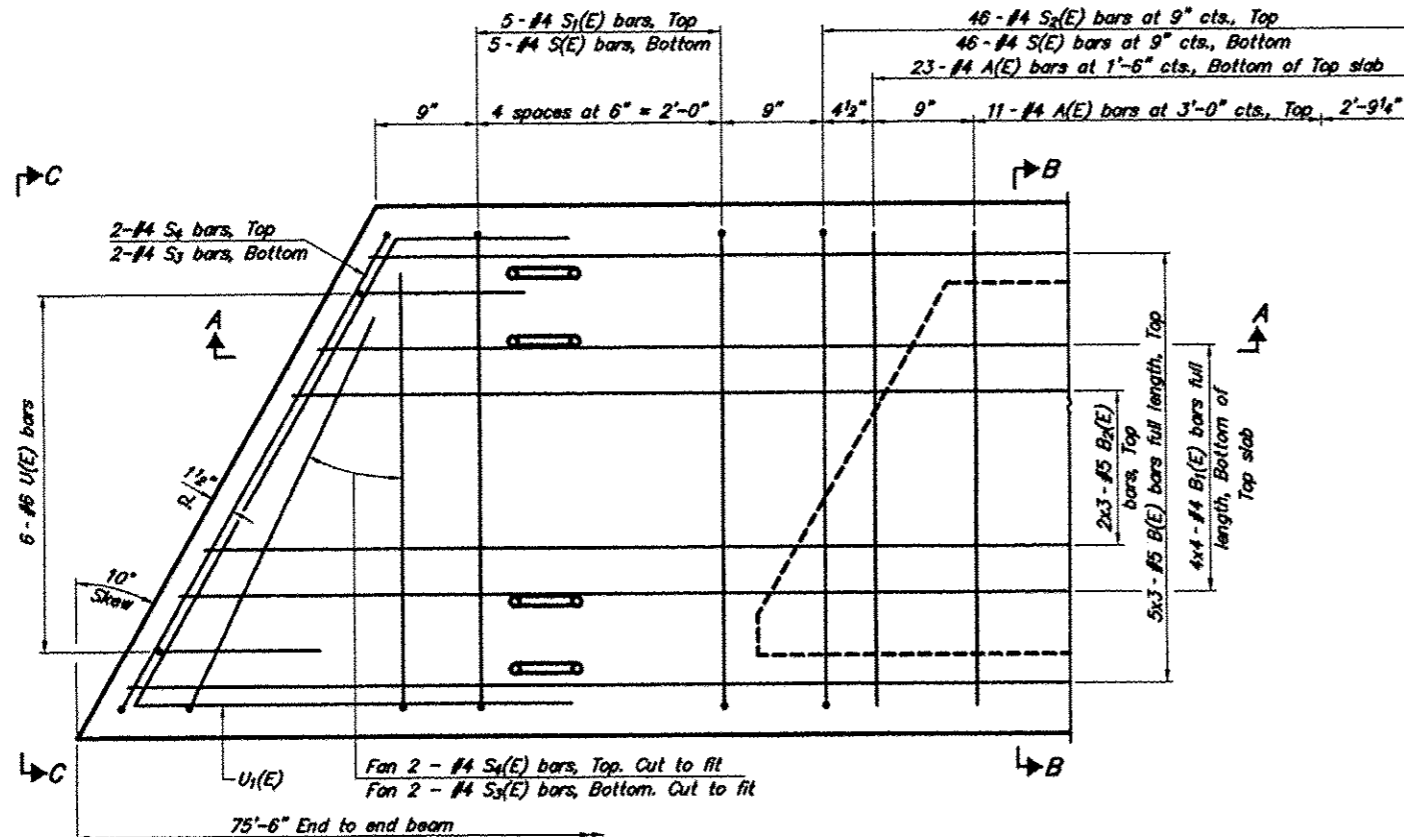
Omit key on exterior face of outside beams



SECTION B-B
(Showing dimensions)



VIEW C-C

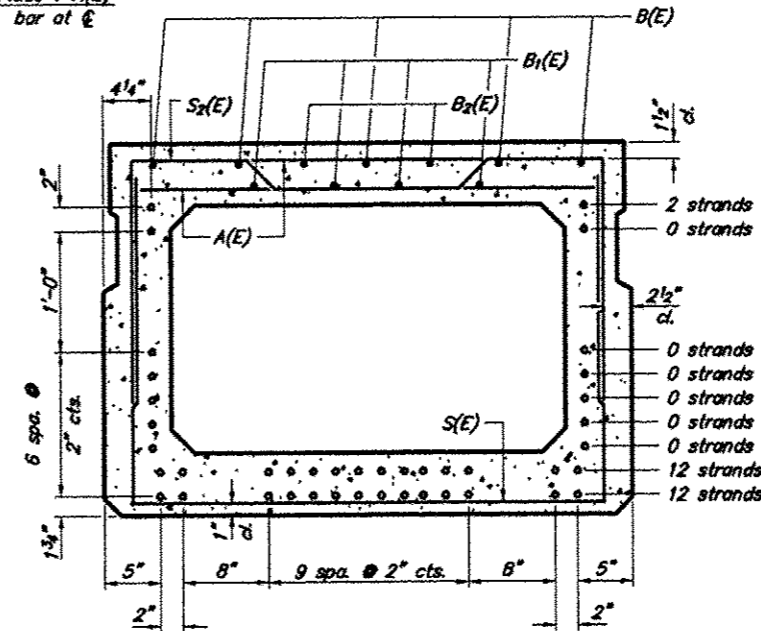


PLAN VIEW

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

Similar about Q

Place 1 A(E) bar at Q



SECTION B-B

(Showing reinforcement and permissible strand locations)

Note: Place the number of strands specified in each row symmetrically about the centerline of beam in the permissible strand locations shown.

BAR LIST

ONE BEAM ONLY
(For information only)

Bar	No.	Size	Length	Shape
A(E)	69	#4	3'-7"	—
B(E)	15	#5	26'-9"	—
B1(E)	16	#4	20'-4"	—
B2(E)	6	#5	26'-9"	—
S(E)	102	#4	8'-5"	□
S1(E)	10	#4	7'-3"	□
S2(E)	92	#4	7'-6"	□
S3(E)	8	#4	5'-1"	□
S4(E)	8	#4	4'-6"	□
U(E)	12	#5	5'-0"	□
U1(E)	6	#4	6'-8"	□

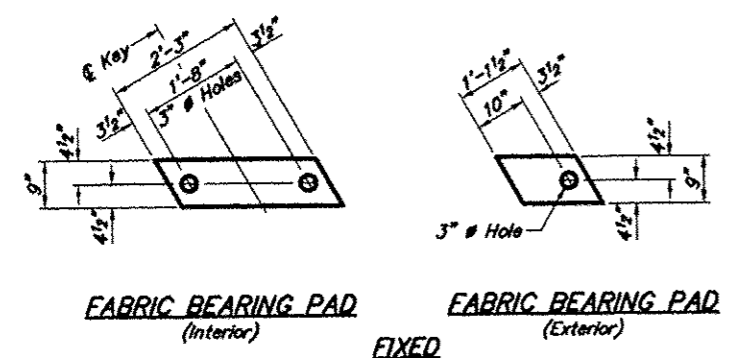
See sheet 7 of 12 for additional details and Bill of Materials.
Bars noted thus 4x2-#5 etc. indicates 4 lines of bars with 2 lengths per line.

MINIMUM BAR LAP

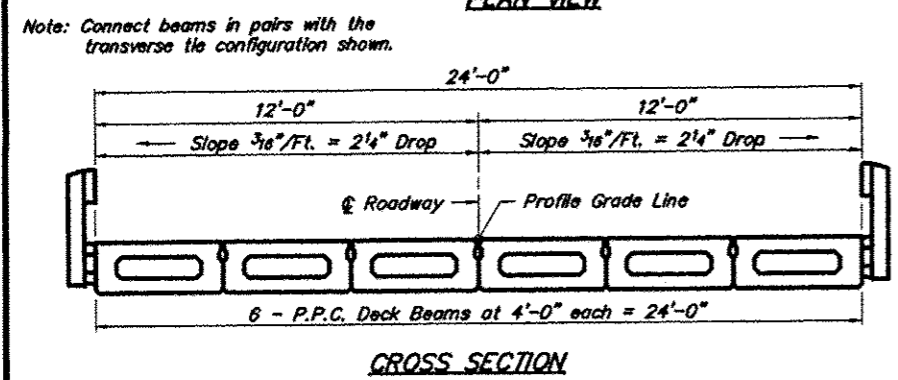
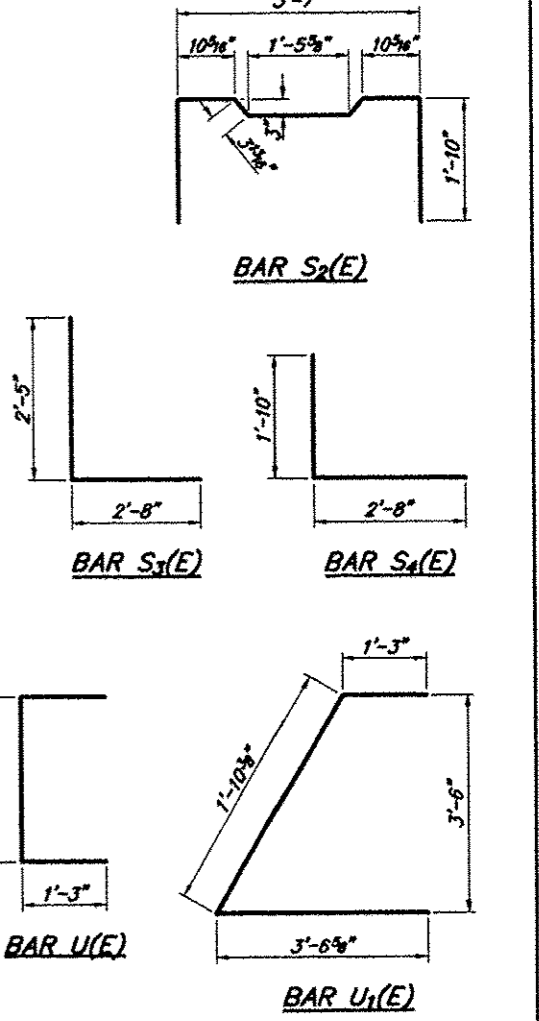
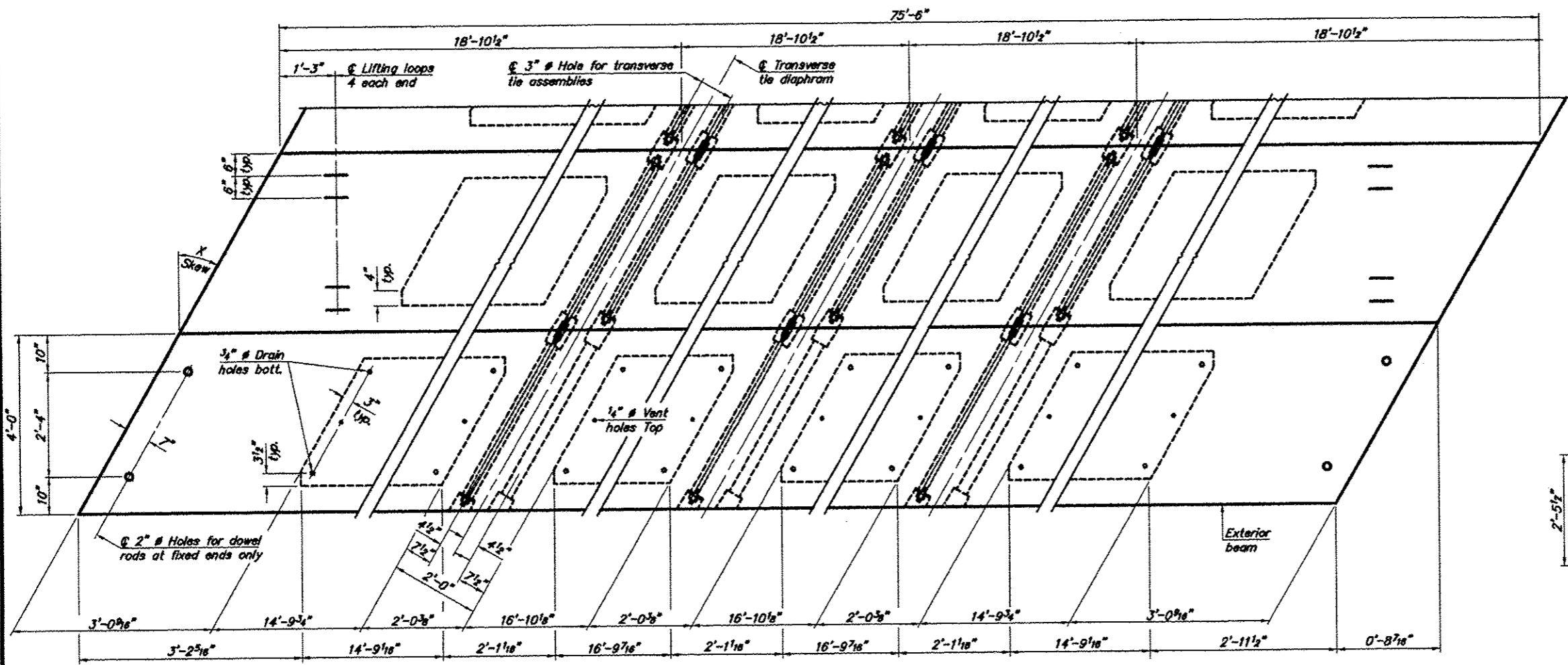
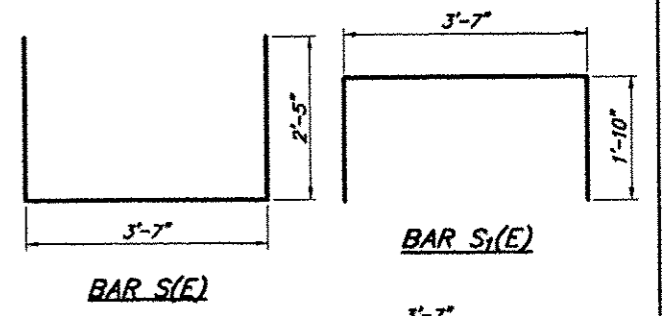
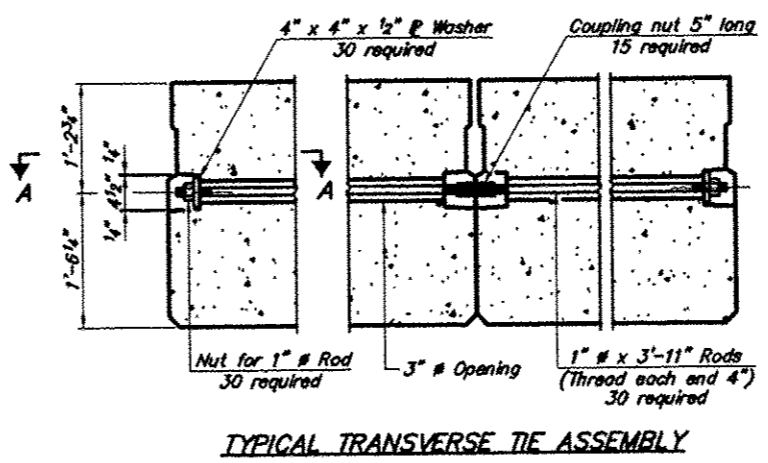
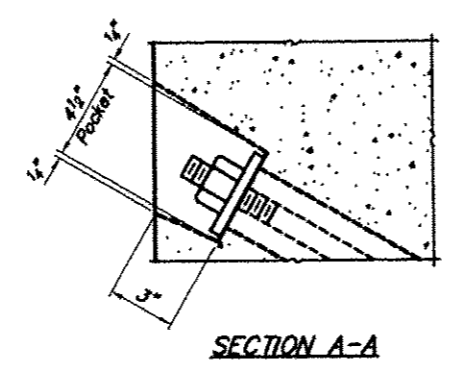
#4 bar = 2'-0"
#5 bar = 2'-6"

33" X 48" PPC DECK BEAM
TOWNSHIP ROUTE 332 (GREEN MEADOW ROAD)
EWING CREEK
SECTION 09-06130-00-BR
FRANKLIN COUNTY
STRUCTURE NO. 028-3412

ROUTE	SECTION	COUNTY	TOTAL SHEETS	SHEET NO
TR 332	09-06130-00-BR	FRANKLIN	12	7
PROJECT NO. BR05-0055(063)			CONTRACT NO. 99545	



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



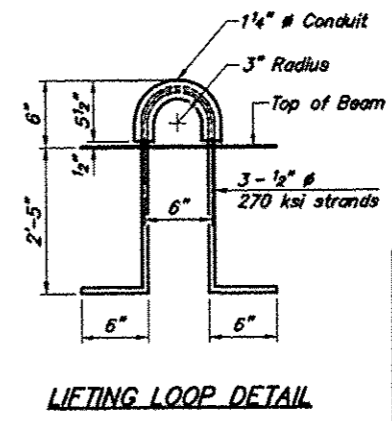
NOTES

Prestressing steel shall be uncoated high strength, low relaxation 7-wire strand, Grade 270. The nominal diameter shall be 1/2" and the nominal cross-sectional area shall be 0.153 sq. in. The 1" # rods in the transverse tie assembly shall be tightened to a snug fit and the threads set. Pockets on exterior faces of bridge shall be filled with grout after transverse tie assembly is in place.

Reinforcement bars shall conform to ASTM A 706, Grade 60. (See Special Provisions). Two 1" fabric adjusting shims of the dimensions of the exterior bearing pad shall be provided for each bearing pad location.

A minimum 2 1/2" # lifting pin shall be used to engage the lifting loops during handling. Corrosion inhibitor, per Article 1020.05(b)(12) and 1021.06 of the Standard Specifications, shall be used in the concrete for precast prestressed concrete deck beams.

Compressive strength of prestressed concrete, f'c, shall be 6000 psi.
 Compressive strength of prestressed concrete at release, f'cl, shall be 5000 psi.

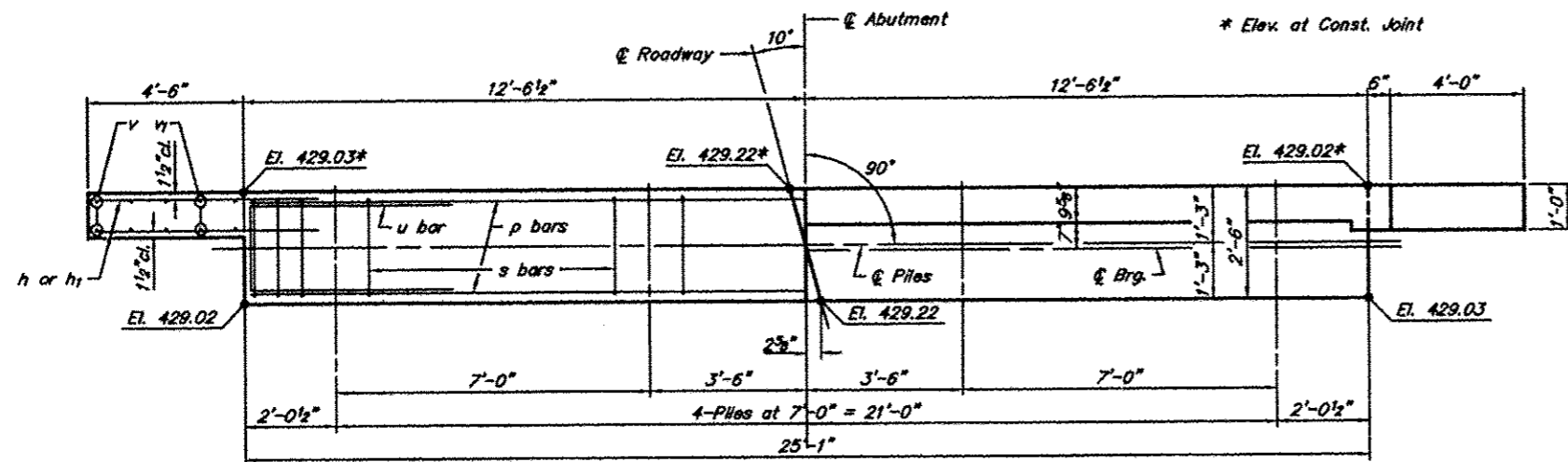


BILL OF MATERIAL

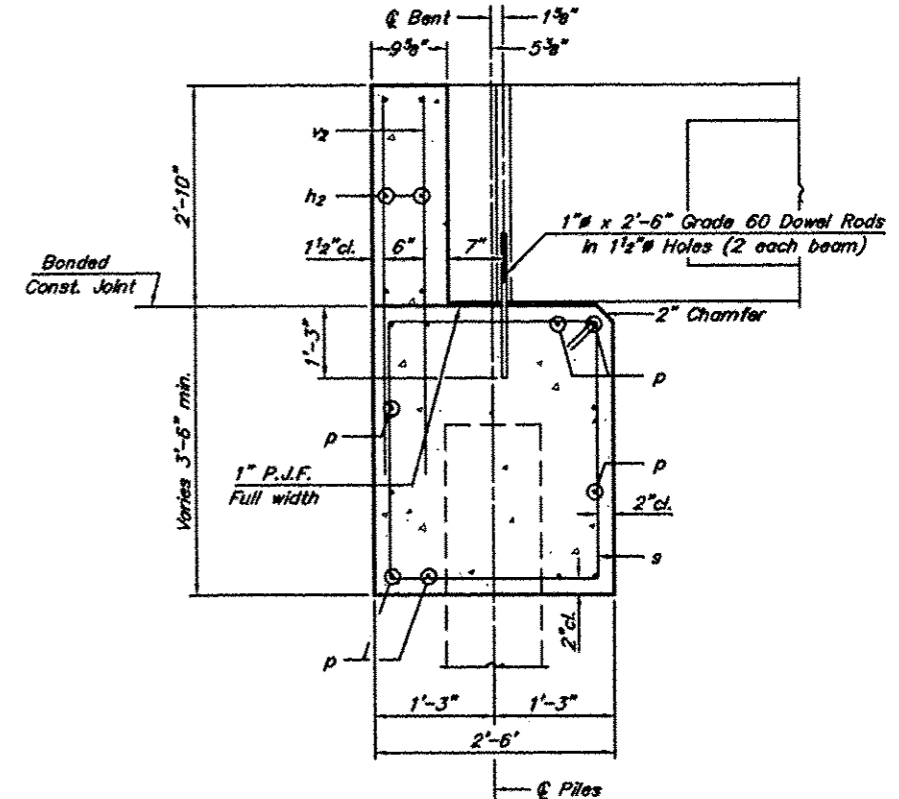
Precast Prestressed Conc. Deck Bms. (33" depth)	Sq. Ft.	1,812
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33" X 48" PPC DECK BEAM DETAILS
 TOWNSHIP ROUTE 332 (GREEN MEADOW ROAD)
 EWING CREEK
 SECTION 09-06130-00-BR
 FRANKLIN COUNTY
 STRUCTURE NO. 028-3412

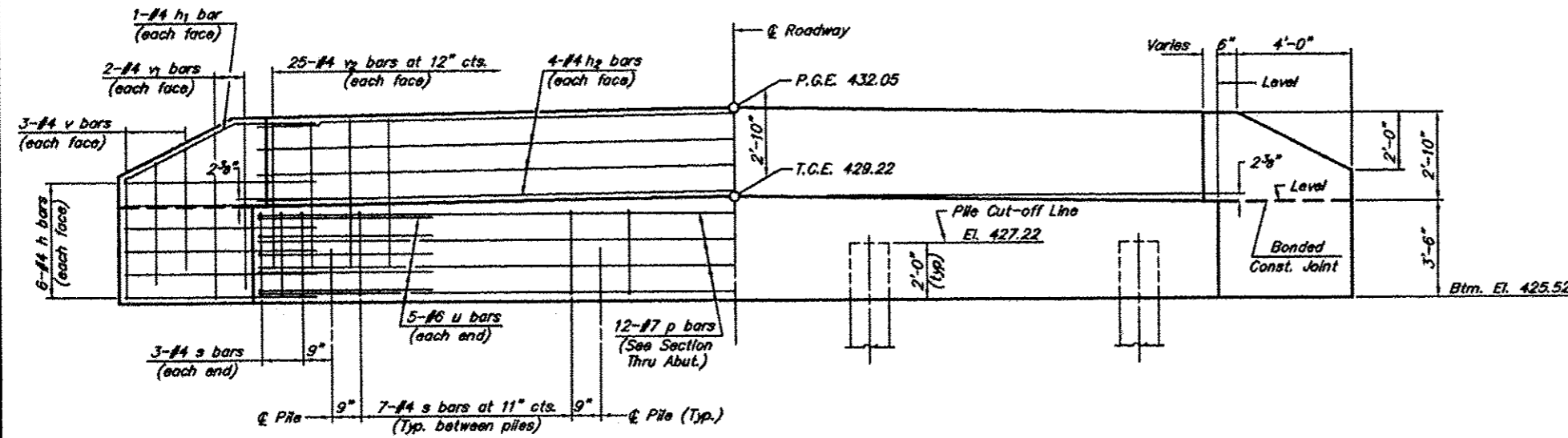
ROUTE	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
TR 332	09-06130-00-BR	FRANKLIN	12	8
PROJECT NO. BROS-0055(063)			CONTRACT NO. 99545	



PLAN



SECTION THRU ABUT.
(At Right Angles)



ELEVATION

BILL OF MATERIAL FOR ONE ABUTMENT

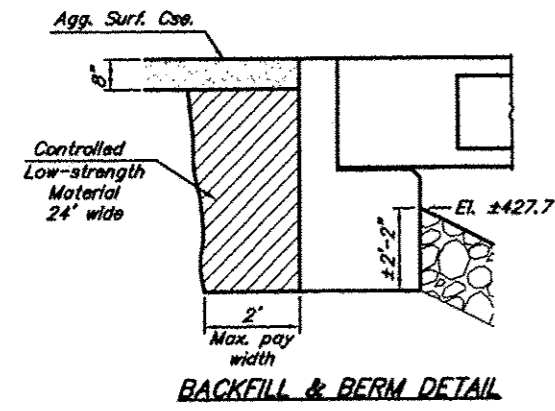
Bar	No.	Size	Length	Shape
h	24	#4	6'-0"	—
h1	4	#4	6'-0"	—
h2	8	#4	24'-9"	—
P	12	#7	24'-9"	—
s	27	#4	11'-5"	□
u	8	#6	11'-5"	▭
v	8	#4	4'-2"	—
v1	8	#4	5'-9"	—
v2	50	#4	4'-5"	—
Concrete Structures			12.3	Cu. Yds.
Reinforcement Bars			1,437	Lbs.

NOTES

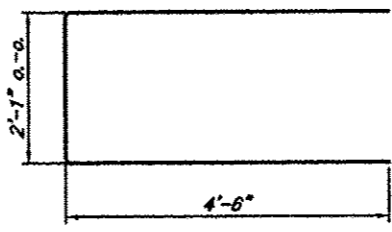
- The Backwall and the portion of the Wingwalls above the bonded construction joint shall be cast against the in-place beam.
- Reinforcement bars shall conform to A.A.S.H.T.O. M-31, M-42 or M-53, Grade 60.

DESIGN STRESSES

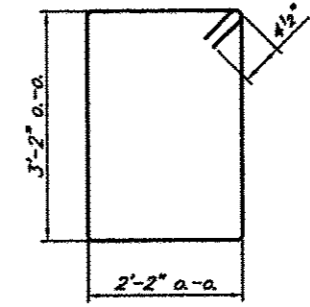
$f_c = 3,500$ psi
 $f_y = 60,000$ psi



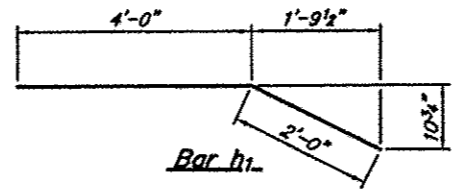
BACKFILL & BERM DETAIL



Bar u



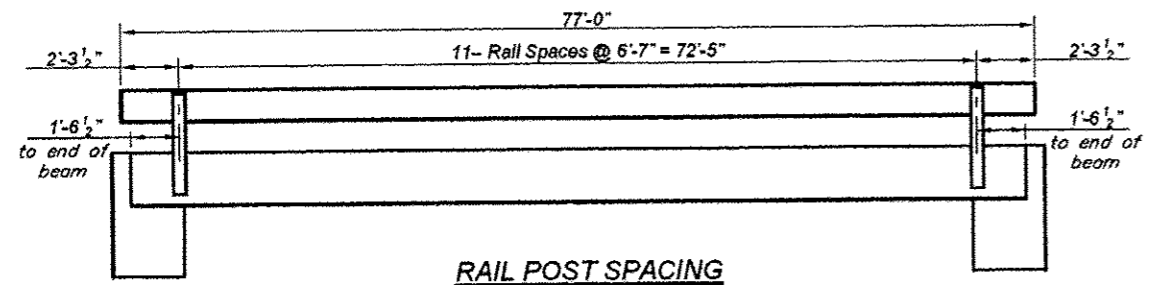
Bar s



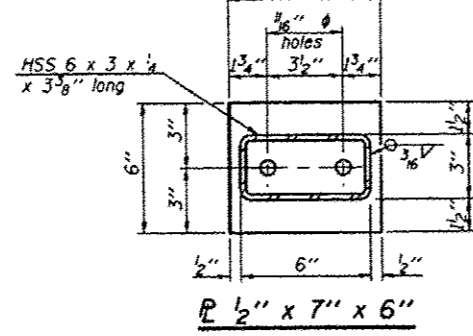
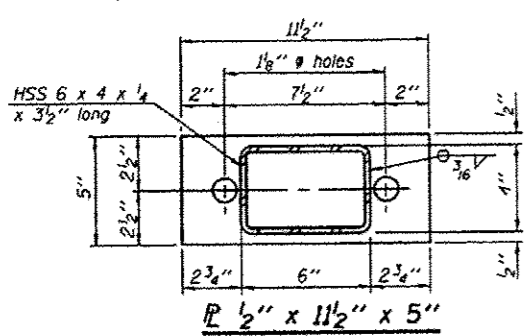
Bar h1

ABUTMENT
TOWNSHIP ROUTE 332 (GREEN MEADOW ROAD)
EWING CREEK
SECTION 09-06130-00-BR
FRANKLIN COUNTY
STRUCTURE NO. 028-3412

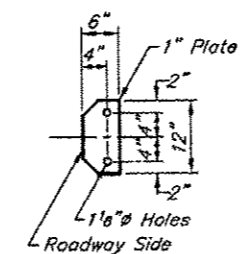
ROUTE	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
TR 332	09-06130-00-BR	Franklin	12	9
PROJECT NO. BROS-0055(063)			CONTRACT NO. 99545	



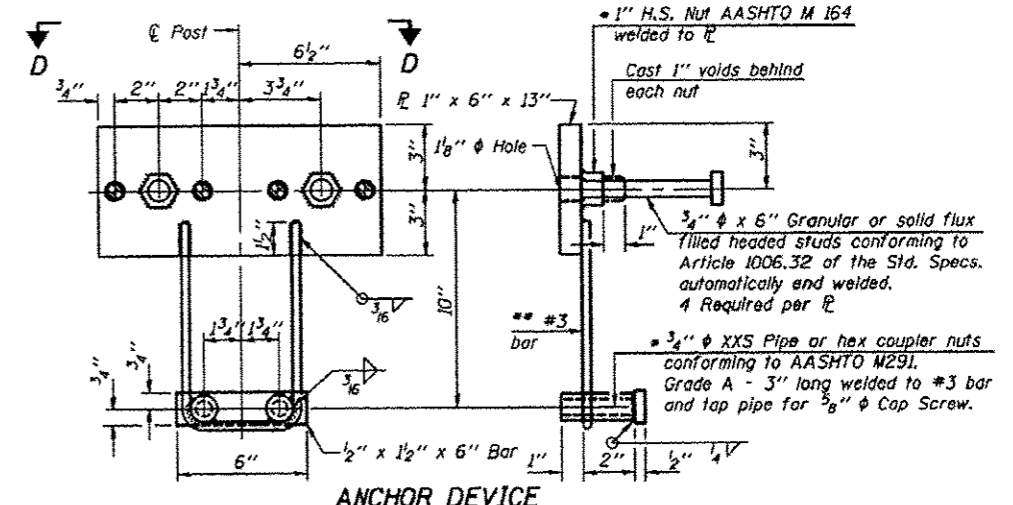
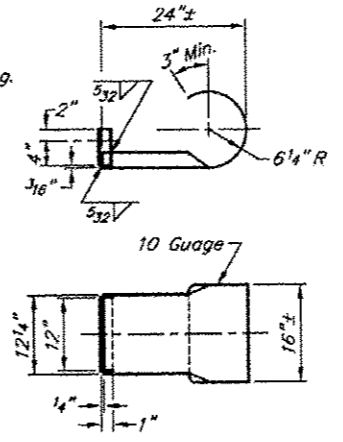
RAIL POST SPACING



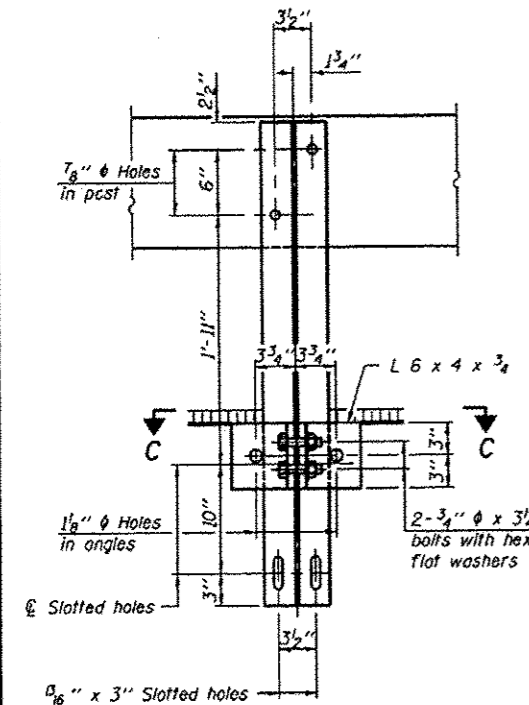
NOTE: Curled End Section incidental to Steel Railing. Four (4) required.



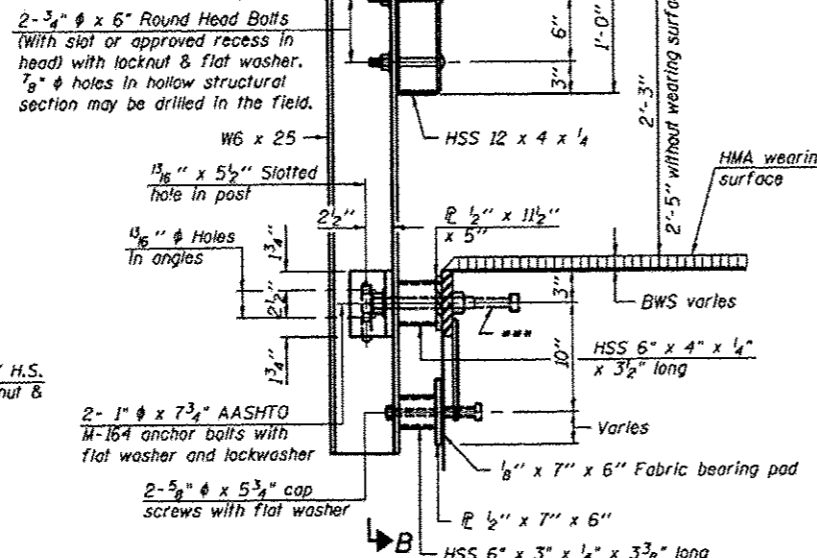
CURLED END SECTION DETAILS



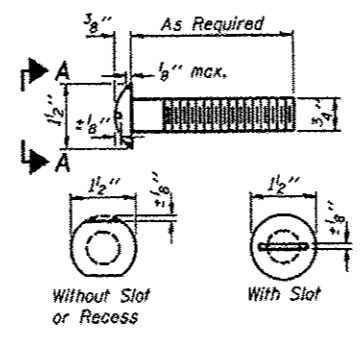
ANCHOR DEVICE



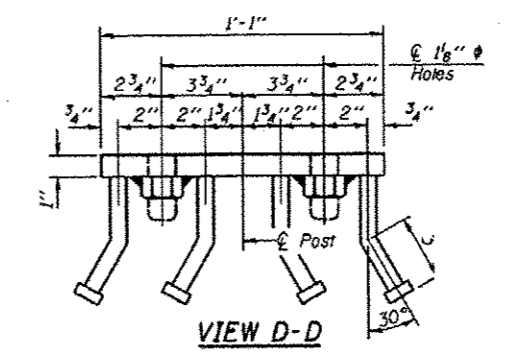
SECTION B-B



SECTION AT RAILING POST



VIEW A-A ROUND HEAD BOLT

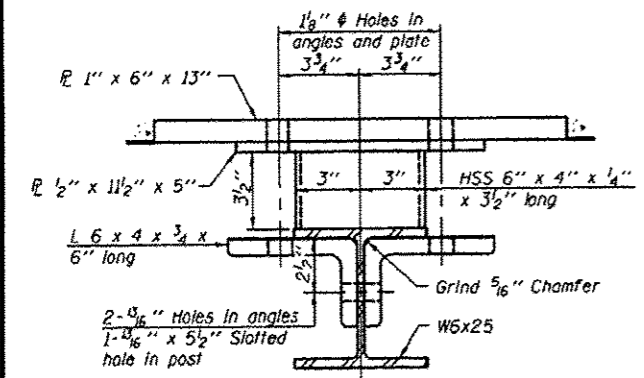


VIEW D-D

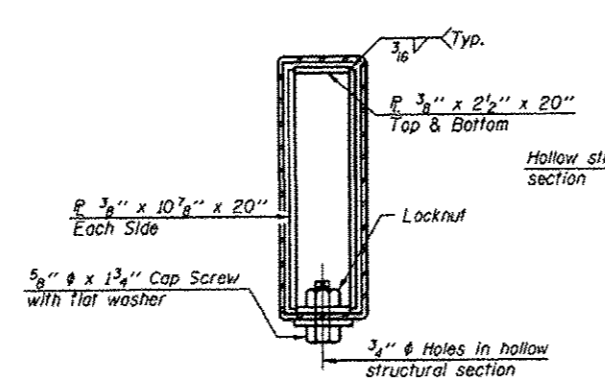
- Notes:
- All field drilled holes shall be coated with an approved zinc rich paint before erection.
 - For multi-span bridges, sufficient 1/4" x 6" x 1'-2" galvanized steel shims shall be provided to align rail between adjacent spans. Cast included with Steel Railing, Type S-1.
 - All steel rail elements shall be galvanized according to Article 509.05 of the Standard Specifications.
 - Threaded areas shall be plugged or blocked off during casting of beam.
 - Whenever the lower insert assemblies interfere with strand locations, the #3 bars shall be cut and adjusted in order to allow raising or lowering of the lower inserts. Maximum adjustment not to exceed 1/2".
 - The studs of the anchor devices shall be placed below the top reinforcement bars and the outermost longitudinal reinforcement bar shall be placed directly above the studs of the rail post anchor device.
 - 10'-9" Maximum Post Spacing

BILL OF MATERIAL

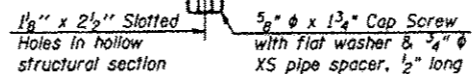
Item	Unit	Quantity
Steel Railing, Type S-1	Foot	154



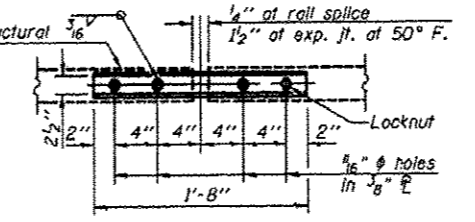
SECTION C-C



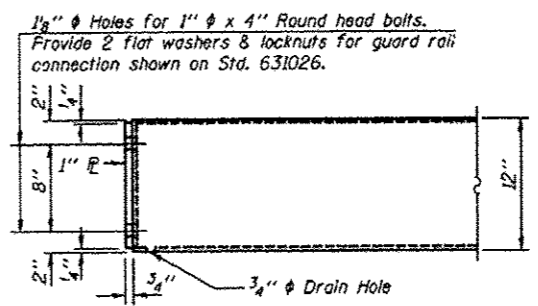
SECTIONS AT RAIL SPLICE



RAIL SPLICE CONNECTION AT EXPANSION JT.



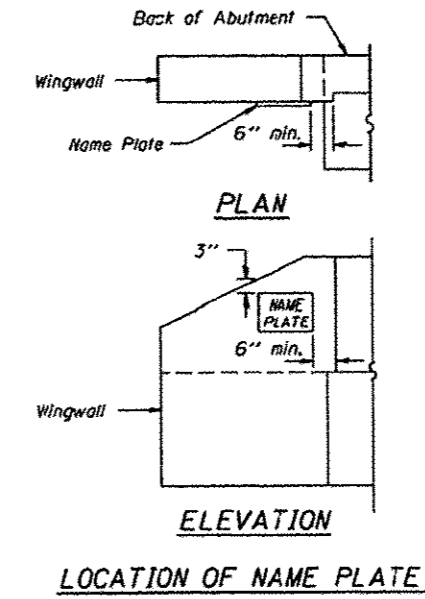
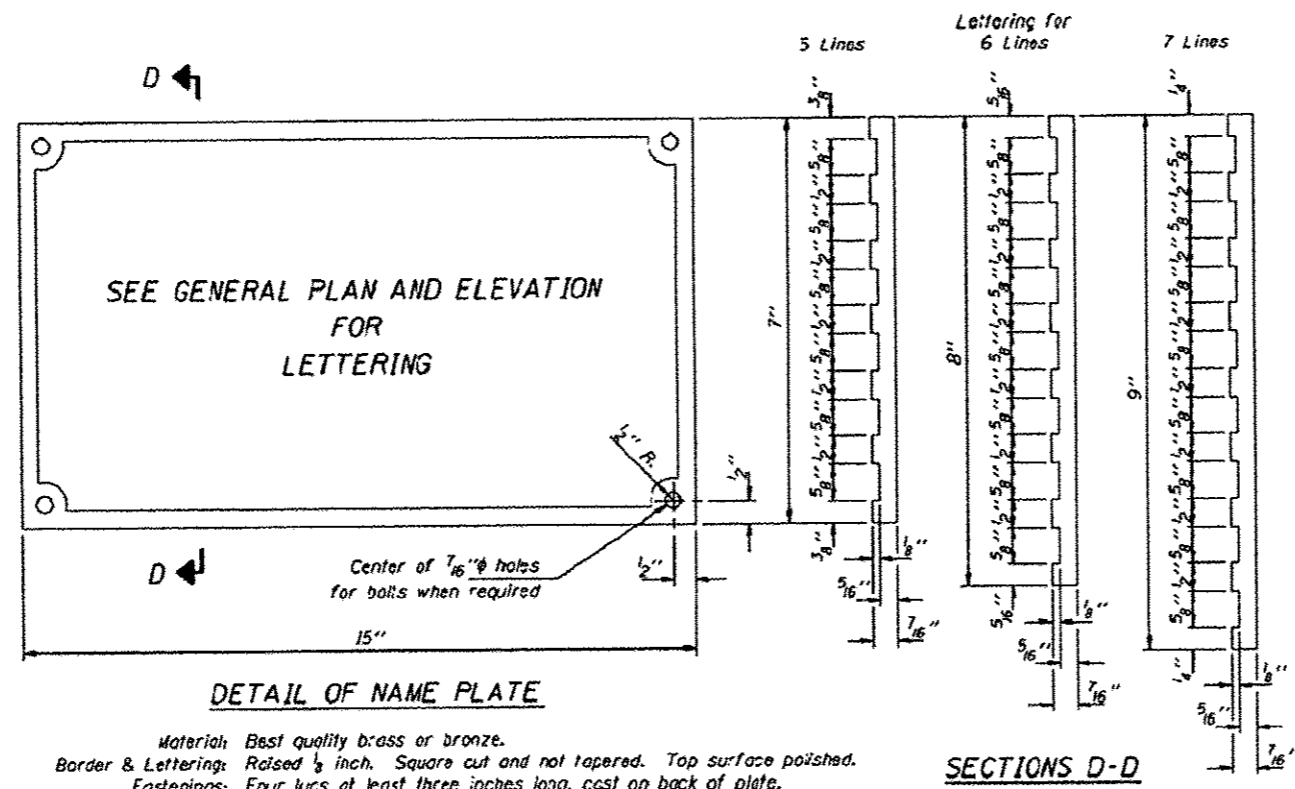
PLAN-BOTT. SPLICE P TYPICAL



END OF RAIL DETAILS

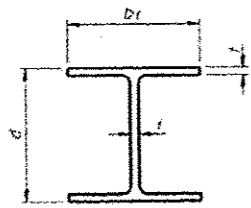
STEEL RAILING, TYPE S-1
TOWNSHIP ROUTE 332 (GREEN MEADOW ROAD)
EWING CREEK
SECTION 09-06130-00-BR
FRANKLIN COUNTY
STRUCTURE NO. 028-3412

ROUTE	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
TR 332	09-06130-00-BR	Franklin	12	10
PROJECT NO. BROS-0055(063)			CONTRACT NO. 99545	



NAME PLATES
TOWNSHIP ROUTE 332 (GREEN MEADOW ROAD)
EWING CREEK
SECTION 09-06130-00-BR
FRANKLIN COUNTY
STRUCTURE NO. 028-3412

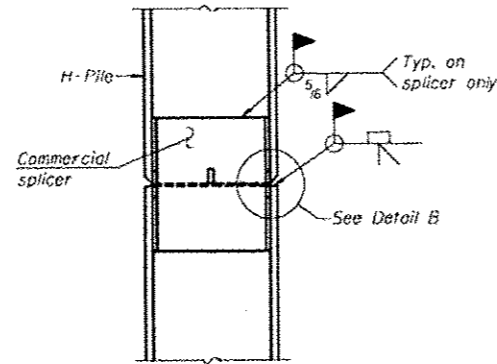
ROUTE	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
TR 332	09-06130-00-BR	Franklin	12	11
PROJECT NO. BROS-0055(063)			CONTRACT NO. 99545	



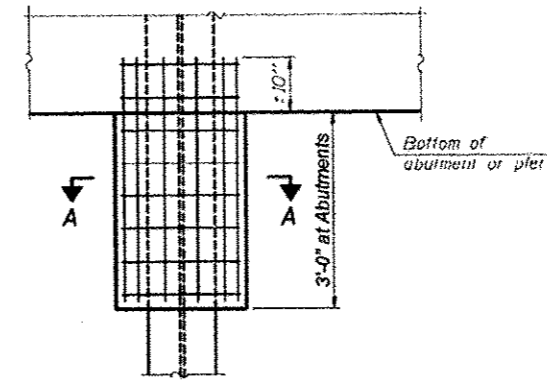
STEEL PILE TABLE

Designation	Depth d	Flange width bf	Web and Flange thickness t	Encasement diameter A	Encasement Quantity/Ft. C.Y.
HP 14x117	14 1/4"	14 7/8"	1 1/8"	30"	0.173
x102	14"	14 3/4"	1 1/8"	30"	0.174
x89	13 7/8"	14 3/4"	5/8"	30"	0.175
x73	13 5/8"	14 5/8"	1/2"	30"	0.176
HP 12x84	12 1/4"	12 1/4"	5/8"	24"	0.110
x74	12 1/8"	12 1/4"	5/8"	24"	0.111
x63	12"	12 1/8"	1/2"	24"	0.112
x53	11 3/4"	12"	7/16"	24"	0.112
HP 10x57	10"	10 1/4"	5/8"	24"	0.112
x42	9 3/4"	10 1/8"	1/2"	24"	0.113
HP 8x36	8"	8 1/8"	7/16"	18"	0.063

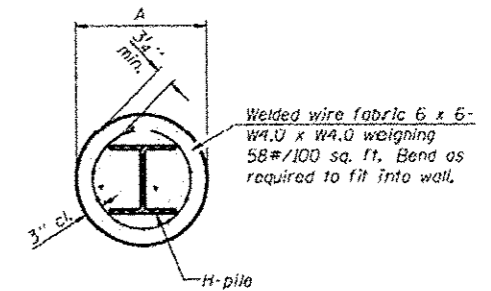
Note: The steel H-piles shall be according to AASHTO M270 Grade 50.



ELEVATION

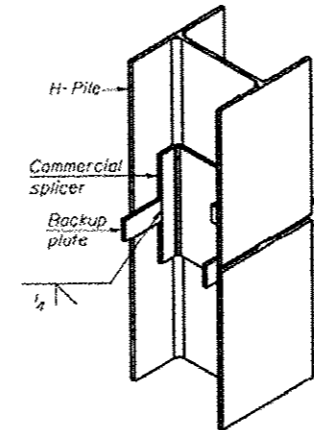


ELEVATION

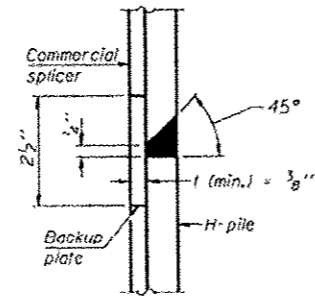


SECTION A-A

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

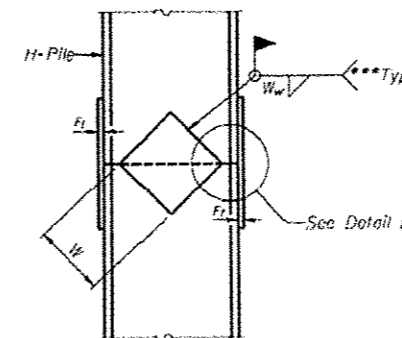


ISOMETRIC VIEW

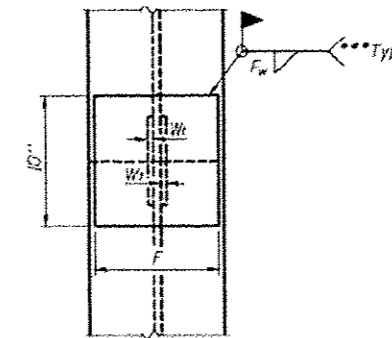


DETAIL "B"

WELDED COMMERCIAL SPLICE

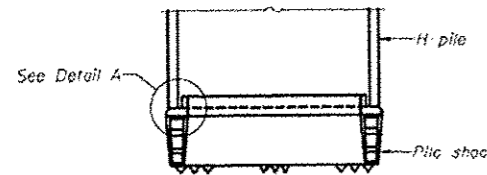


ELEVATION

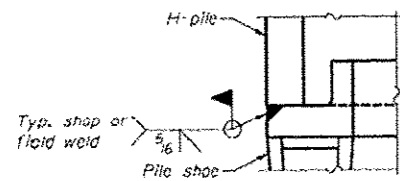


END VIEW

WELDED PLATE FIELD SPLICE

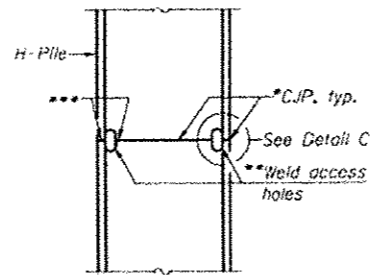


ELEVATION

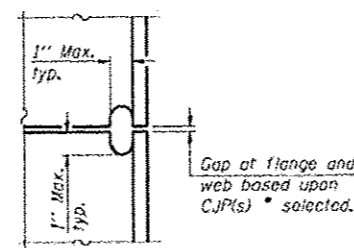


DETAIL A

H-PILE SHOE ATTACHMENT

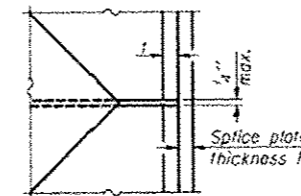


ELEVATION



DETAIL C

COMPLETE PENETRATION WELD SPLICE



DETAIL D

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

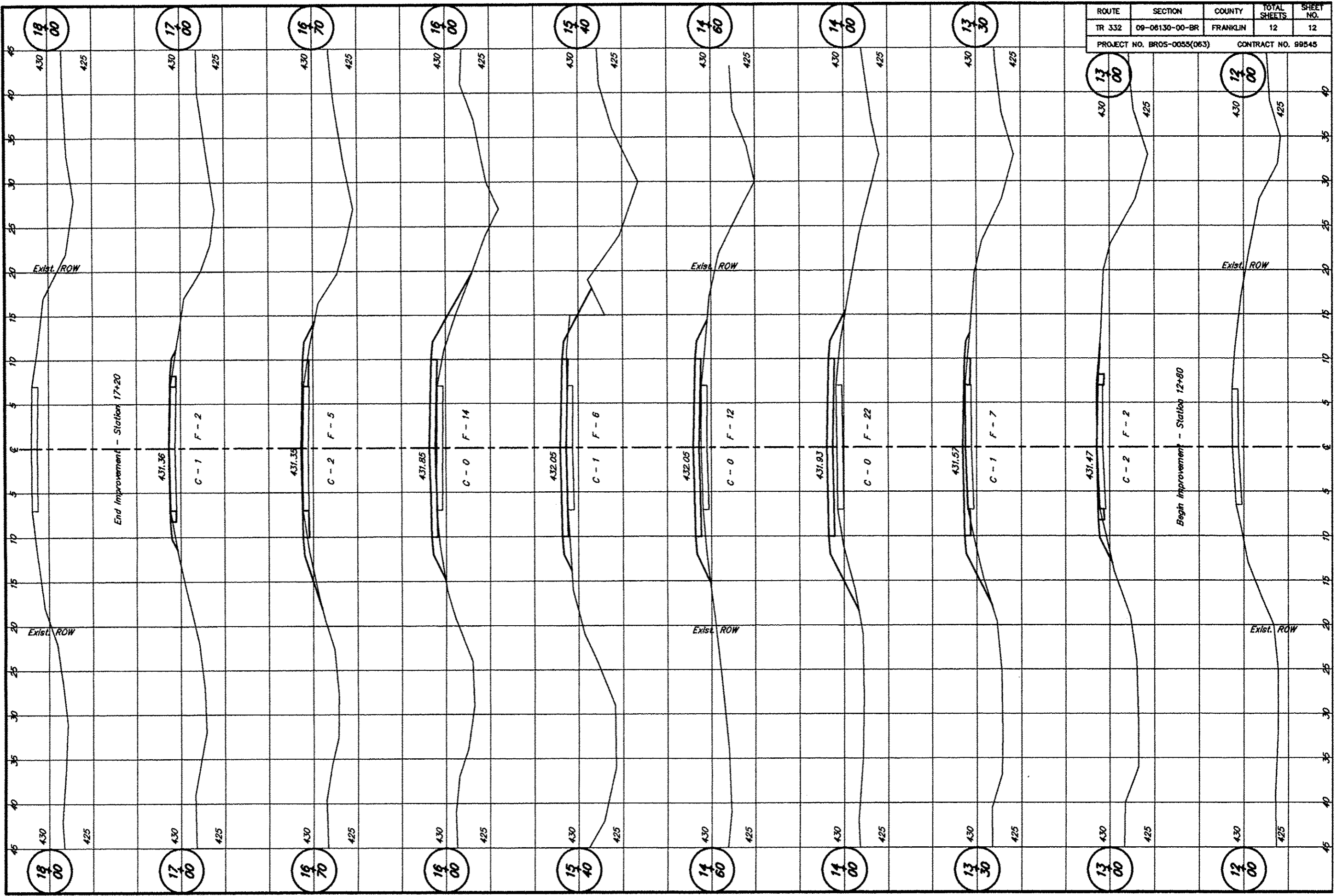
*Use joint conforming to Figure 3.4 in AWS D1.1, Structure Welding Code - Steel.

**Preparation per Fig. 5.2 in AWS D1.1, Structure Welding Code - Steel.

***Interrupt welds 1/4" from end of each pile.

PILING DETAILS
TOWNSHIP ROUTE 332 (GREEN MEADOW ROAD)
EWING CREEK
SECTION 09-06130-00-BR
FRANKLIN COUNTY
STRUCTURE NO. 028-3412

ROUTE	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
TR 332	09-06130-00-BR	FRANKLIN	12	12
PROJECT NO. BR05-0055(063)			CONTRACT NO. 99545	



18
00

17
00

16
70

16
00

15
40

14
60

14
00

13
30

13
00

12
00

18
00

17
00

16
70

16
00

15
40

14
60

14
00

13
30

13
00

12
00

End Improvement - Station 17+20

Begin Improvement - Station 12+80

Exist. ROW

Exist. ROW

Exist. ROW

Exist. ROW

Exist. ROW

Exist. ROW

C-1
F-2

C-2
F-5

C-0
F-14

C-1
F-6

C-0
F-12

C-0
F-22

C-1
F-7

C-2
F-2

431.36

431.35

431.85

432.05

432.05

431.93

431.57

431.47