

PLANS FOR PROPOSED
SURFACE TRANSPORTATION PROGRAM - BRIDGE

IROQUOIS COUNTY
SECTION 11-00173-04-BR & 11-00173-05-BR
COUNTY HIGHWAY 42 OVER PRAIRIE CREEK &
PRAIRIE CREEK TRIBUTARY
PROJECT NO. BROS-0075(181)

JOB NUMBER C-93-060-13

RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
CH 42	11-00173-04-BR & 11-00173-05-BR	IROQUOIS	44	1
FED. ROAD DIST. NO. 7		ILLINOIS	CONTRACT NO. 87555	

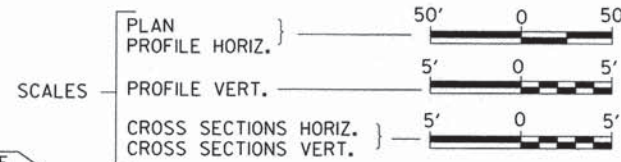
INDEX OF SHEETS

SHEET NO.	DESCRIPTION
1.	COVER SHEET
2.	GENERAL NOTES, TYPICAL SECTIONS, DETAILS
3.	SUMMARY OF QUANTITIES, SCHEDULES OF QUANTITIES
4.	TRAFFIC CONTROL PLAN
5.	STORM WATER POLLUTION PREVENTION PLAN
6.	PLAN AND PROFILE
7. -17.	STRUCTURE PLANS SN 038-3911
18. -28.	STRUCTURE PLANS SN 038-3912
29. -44.	CROSS SECTIONS



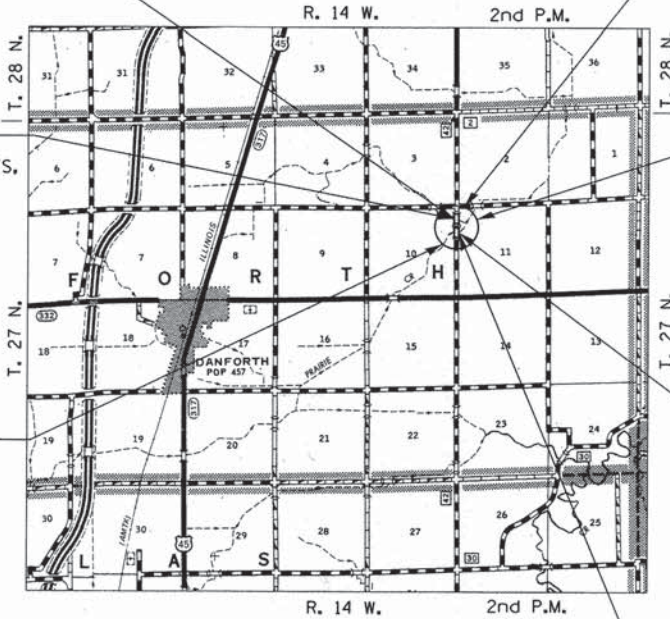
REQUIRED HIGHWAY STANDARDS

- 000001-06
- 280001-07
- 515001-03
- 630301-06
- 635006-03
- 701901-03
- BLR 21-9
- BLR 26-3
- BLR 27-1



EXISTING STRUCTURE NO. 038-3904
SINGLE SPAN PRECAST CHANNEL BEAM BRIDGE ON TIMBER PILE CLOSED ABUTMENTS WITH REINFORCED CONCRETE CAPS, 37'-9" BK TO BK, 26'-3" O TO O DECK, 35° LT. AH. SKEW (TO BE REMOVED)

PROPOSED STRUCTURE NO. 038-3912
SINGLE SPAN 27" PPC DECK BEAM STRUCTURE ON CONCRETE SPILL THRU PILE BENT ABUTMENTS, 74'-0" BK TO BK, 30'-0" O TO O DECK, 35° LT. AH. SKEW



SECTION 11-00173-05-BR
ENDS
STATION 489+25.00

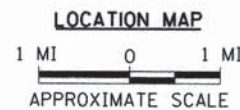
SECTION 11-00173-05-BR
BEGINS
STATION 482+00.00

SECTION 11-00173-04-BR
ENDS
STATION 482+00.00

SECTION 11-00173-04-BR
BEGINS
STATION 474+75.00

EXISTING STRUCTURE NO. 038-3903
SINGLE SPAN PRECAST CHANNEL BEAM BRIDGE ON TIMBER PILE CLOSED ABUTMENTS WITH REINFORCED CONCRETE CAPS, 29'-6" BK TO BK, 26'-0" O TO O DECK, NO SKEW (TO BE REMOVED)

PROPOSED STRUCTURE NO. 038-3911
SINGLE SPAN 27" PPC DECK BEAM STRUCTURE ON CONCRETE SPILL THRU PILE BENT ABUTMENTS, 72'-0" BK TO BK, 30'-0" O TO O DECK, NO SKEW.



NET LENGTH OF PROJECT = 1450.00 FEET = 0.275 MILES
DESIGN CLASSIFICATION: LOCAL ROAD (NON-URBAN)
DESIGN ADT: 150 (14)
DESIGN SPEED: 30 MPH

UTILITY COMPANIES

EASTERN ILLINOISELECTRICAL COOPERATIVE
PAXTON, ILLINOIS

FRONTIER COMMUNICATIONS
BLOOMINGTON, ILLINOIS

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

CONTRACT NO. 87555

PLANS DESIGNED IN ACCORDANCE WITH BUREAU OF LOCAL ROADS AND STREETS MANUAL GUIDELINES FOR TWO LANE RURAL LOCAL ROADS - RECONSTRUCTION

APPROVED Jan 27 2014

[Signature]
IROQUOIS COUNTY ENGINEER

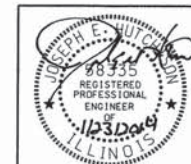
PASSED 1/31 2014

[Signature]
DISTRICT THREE ENGINEER OF LOCAL ROADS & STREETS

Released For Bid Based on Limited Review 1/31 2014

[Signature]
DEPUTY DIRECTOR OF HIGHWAYS, REGION TWO ENGINEER

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION



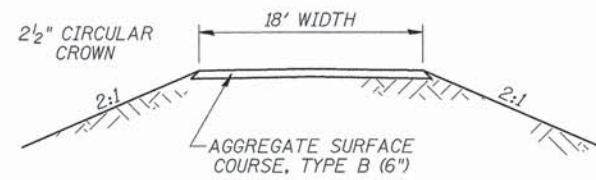
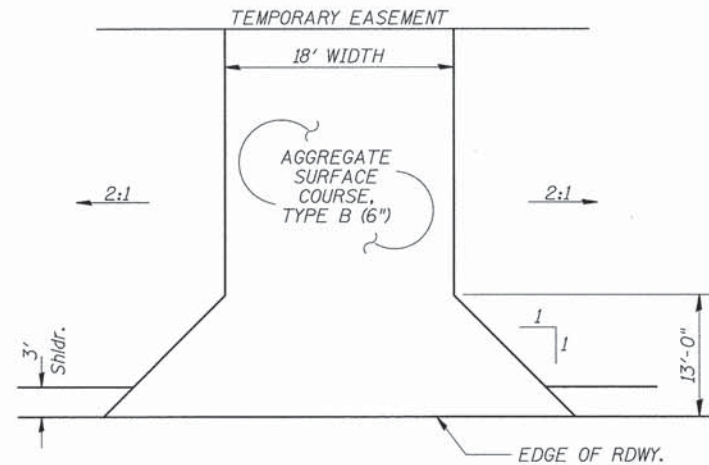
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Lic. Exp. 11/30/2016
SIGNATURE

ENGINEERS SEAL

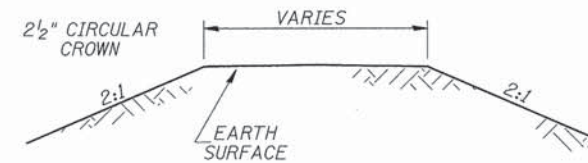
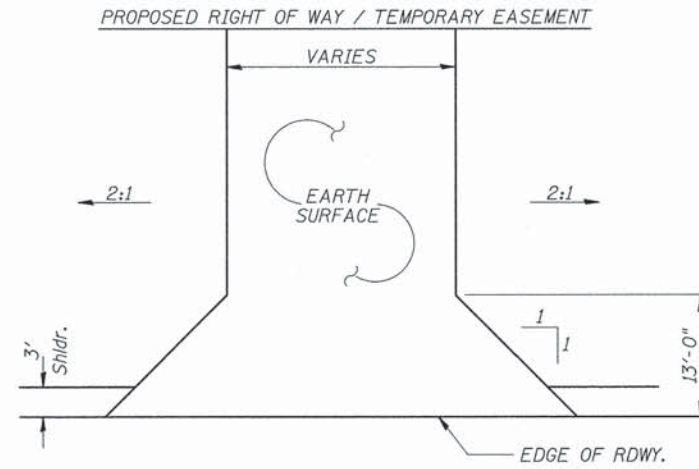
Hutchison Engineering, Inc.
JACKSONVILLE-SHOREWOOD-PEORIA

2013

JOB#3332/3333

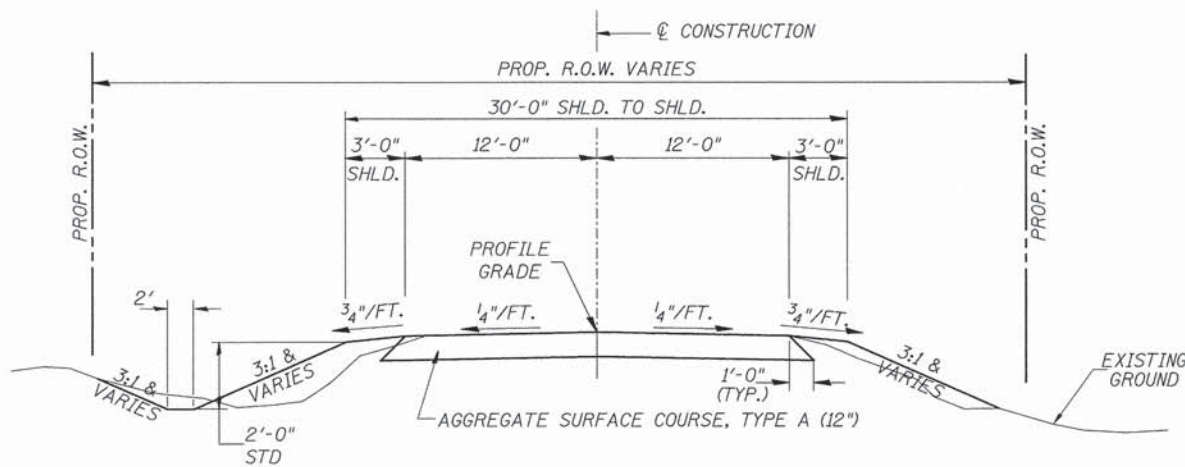


FIELD ENTRANCE
STA 479+41 LT



FIELD ENTRANCES

STA 475+00 RT (20' WIDE)
STA 479+63 RT (16' WIDE)
STA 485+00 RT (16' WIDE)
STA 485+00 LT (16' WIDE)

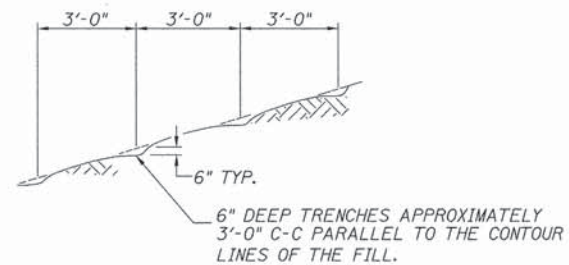


PROPOSED TYPICAL SECTION

CONSTRUCT GUARDRAIL
SHOULDER WIDENING IN
ACCORDANCE WITH STD 630301

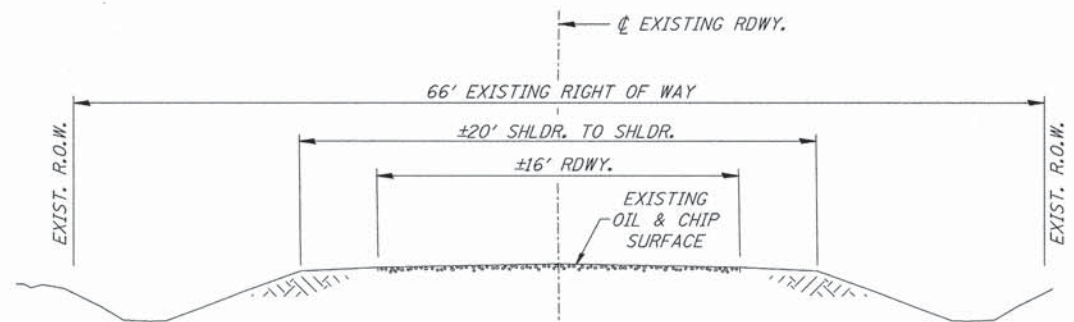
STA. 474+75.00 TO STA. 477+86.50
STA. 478+58.50 TO STA. 486+19.00
STA. 486+93.00 TO STA. 489+25.00
EXCEPT TRANSITIONS

BRIDGE OMISSIONS
STA. 477+86.50 TO STA. 478+58.50
STA. 486+19.00 TO STA. 486+93.00



NOTE: ALL SLOPES 3:1 OR STEEPER AND GREATER THAN 5' IN HEIGHT SHALL BE CONTOUR PLOWED AS SHOWN IN DETAIL. COST SHALL BE INCLUDED WITH SEEDING, CLASS 2 (SPECIAL).

DETAIL OF CONTOUR PLOWING



EXISTING TYPICAL SECTION

GENERAL NOTES

THE REMOVAL OF EXISTING OIL & CHIP SURFACE AND GRAVEL OR CRUSHED STONE BASE COURSE WHICH MAY BE NECESSARY FOR THE CONSTRUCTION OF THE PROJECT SHALL BE REMOVED AS EARTH EXCAVATION AND NO COMPENSATION WILL BE ALLOWED FOR ADDITIONAL LABOR OR EQUIPMENT REQUIRED.

ALL WASTE OR UNDESIRABLE MATERIAL AS IDENTIFIED BY THE ENGINEER SHALL BE DISPOSED OF OUTSIDE THE LIMITS OF THE RIGHT OF WAY AT THE CONTRACTOR'S EXPENSE.

ALL EXISTING PRIVATELY OWNED UTILITIES REQUIRING ADJUSTMENT WILL BE MADE BY THE UTILITY COMPANY INVOLVED. WHERE NO PROVISIONS HAVE BEEN MADE FOR ADJUSTMENTS ON THE PLANS, NO ADDITIONAL COMPENSATION WILL BE ALLOWED DUE TO DELAYS OR INCONVENIENCES CAUSED BY THE SAID UTILITY ADJUSTMENTS.

THE PROFILE GRADE ELEVATIONS SHOWN ON THE PLAN AND PROFILE SHEETS AND IN THE STATION CROSS SECTIONS ARE TO THE TOP OF THE FINISHED SURFACE.

ALL EXISTING DRAINAGE STRUCTURES NOT BEING REMOVED OR ADJUSTED BY THE CONTRACTOR THAT ARE DAMAGED DURING CONSTRUCTION SHALL BE REPLACED OR REPAIRED AT THE CONTRACTOR'S EXPENSE.

ANY REFERENCE TO STANDARDS THROUGHOUT THE PLANS SHALL BE INTERPRETED TO BE THE LATEST STANDARDS OF THE ILLINOIS DEPARTMENT OF TRANSPORTATION.

THE LOCATION OF UNDERGROUND UTILITIES SHOWN ON THE PLANS REPRESENTS THE BEST KNOWLEDGE OF THE COUNTY. IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO VERIFY LOCATIONS OF UNDERGROUND INSTALLATIONS BEFORE STARTING CONSTRUCTION OPERATIONS. THE CONTRACTOR SHALL INDEMNIFY THE COUNTY, ITS OFFICERS AND EMPLOYEES AGAINST ALL CLAIMS DUE TO DAMAGE TO CORPORATE OR PRIVATE PROPERTY RESULTING FROM HIS CONSTRUCTION OPERATIONS AS DESCRIBED IN ARTICLES 107.20 AND 107.26 OF THE STANDARD SPECIFICATIONS.

THE CONTRACTOR MAY BE REQUIRED TO CONDUCT SOME OF HIS GRADING AND TRENCHING OPERATIONS AROUND TRANSMISSION POLES AND UNDER TRANSMISSION LINES. THE ADDED COST OF SO DOING SHALL BE INCLUDED IN THE COST OF EARTH EXCAVATION.

WHERE SECTION OR SUBSECTION MONUMENTS ARE ENCOUNTERED, THE ENGINEER SHALL BE NOTIFIED BEFORE SUCH MONUMENTS ARE REMOVED. THE CONTRACTOR SHALL PROTECT AND PRESERVE PROPERTY MARKERS UNTIL THE OWNER, AN AUTHORIZED SURVEYOR, OR AGENT, HAS WITNESSED OR OTHERWISE REFERENCED THEIR LOCATION.

THE FINAL SURFACE OF ALL DISTURBED/EMBANKMENT AREAS SHALL BE SEEDDED. THE TOP 4 INCHES OF THE SEEDED AREAS SHALL BE COHESIVE VEGETATION SUSTAINING SOIL SUBJECT TO THE APPROVAL OF THE ENGINEER. THE COST OF SHAPING THE SLOPES AND PROVIDING VEGETATION SUSTAINING SOIL WILL NOT BE PAID FOR SEPARATELY BUT SHALL BE INCLUDED IN THE COST OF FURNISHED EXCAVATION. TOPSOIL MAY BE STRIPPED AND STOCKPILED FROM THE SITE OR HAULED IN FROM AN ALTERNATE LOCATION AS APPROVED BY THE ENGINEER.

ALL ELEVATIONS SHOWN REFER TO U.S.G.S. MEAN SEA LEVEL DATUM.

FILE NAME = V:\Bridge\3332-Iroquois\3332t801.dgn	USER NAME = cthomas	DESIGNED -	REVISED -	IROQUOIS COUNTY COUNTY HIGHWAY 42 OVER PRAIRIE CREEK AND PRAIRIE CREEK TRIBUTARY	GENERAL NOTES, TYPICAL SECTIONS, DETAILS	RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
PLOT SCALE = 1,0000 ft / 1in.	CHECKED -	REVISED -	CH 42			11-00173-04-BR & 11-00173-05-BR	IROQUOIS	44	2	
PLOT DATE = 1/22/2014	DATE -	REVISED -	FED. ROAD DIST. NO. 7			ILLINOIS	FED. AID PROJECT BR05-00751811			
			SCALE: NONE			SHEET NO. 1 OF 1 SHEETS	STA. 474+75.00 TO STA. 489+25.00			

SUMMARY OF QUANTITIES

CODE NO.	ITEM	UNIT	SN 038-3911 IMPROVEMENTS	SN 038-3912 IMPROVEMENTS	TOTAL QUANTITIES
20200100	EARTH EXCAVATION	CU YD	820	650	1,470
20300100	CHANNEL EXCAVATION	CU YD	535	485	1,020
① 20400800	FURNISHED EXCAVATION	CU YD	2,045	1,505	3,550
28000250	TEMPORARY EROSION CONTROL SEEDING	POUND	400	400	800
28000305	TEMPORARY DITCH CHECKS	FOOT	60	72	132
28000400	PERIMETER EROSION BARRIER	FOOT	195	220	415
28000500	INLET AND PIPE PROTECTION	EACH	3	2	5
28100209	STONE RIPRAP, CLASS A5	TON	470	460	930
28200200	FILTER FABRIC	SQ YD	390	380	770
40200100	AGGREGATE SURFACE COURSE, TYPE A	TON	1,115	1,109	2,224
40200800	AGGREGATE SURFACE COURSE, TYPE B	TON	43	—	43
① 50100300	REMOVAL OF EXISTING STRUCTURES NO. 1	EACH	1	—	1
① 50100400	REMOVAL OF EXISTING STRUCTURES NO. 2	EACH	—	1	1
50105220	PIPE CULVERT REMOVAL	FOOT	97	—	97
50200100	STRUCTURE EXCAVATION	CU YD	75	85	160
50300225	CONCRETE STRUCTURES	CU YD	25.4	30.5	55.9
50300280	CONCRETE ENCASMENT	CU YD	2.6	3.1	5.7
① 50400505	PRECAST PRESTRESSED CONCRETE DECK BEAMS (27" DEPTH)	SQ FT	2,105	2,153	4,258
① 50800105	REINFORCEMENT BARS	POUND	2,850	3,360	6,210
② 50900205	STEEL RAILING, TYPE S1	FOOT	144	148	292
51200957	FURNISHING METAL SHELL PILES 12"X0.250"	FOOT	416	410	826
51202305	DRIVING PILES	FOOT	416	410	826
51203200	TEST PILE METAL SHELLS	EACH	2	2	4
51500100	NAME PLATES	EACH	1	1	2
① 54200220	PIPE CULVERTS, CLASS D, TYPE 1 15"	FOOT	—	66	66
① 54200223	PIPE CULVERTS, CLASS D, TYPE 1 18"	FOOT	70	—	70
① 54200235	PIPE CULVERTS, CLASS D, TYPE 1 30"	FOOT	40	—	40
① 59300100	CONTROLLED LOW-STRENGTH MATERIAL	CU YD	18.0	22.0	40.0
② 63100075	TRAFFIC BARRIER TERMINAL, TYPE 5A	EACH	2	2	4
② 63100167	TRAFFIC BARRIER TERMINAL, TYPE 1 (SPECIAL) TANGENT	EACH	2	2	4
67100100	MOBILIZATION	L SUM	0.5	0.5	1
② ① 78201000	TERMINAL MARKER - DIRECT APPLIED	EACH	4	4	8
① X2501000	SEEDING, CLASS 2 (SPECIAL)	ACRE	1.0	1.0	2.0
① XX008385	CONCRETE REMOVAL (SPECIAL)	EACH	1	—	1
① XX008899	FIELD TILE ADJUSTMENT, 8" AND LESS	FOOT	60	30	90
① XX008900	FIELD TILE ADJUSTMENT, OVER 8"	FOOT	30	60	90

① SEE SPECIAL PROVISIONS
② SPECIALTY ITEMS

CONSTRUCTION CODE TYPE: 0011

TRAFFIC BARRIER TERMINAL, TYPE 1 (SPECIAL) TANGENT

SIDE	STATION TO STATION	EACH
SN 038-3911 IMPROVEMENTS		
RIGHT	477+23.25 - 477+73.25	1
LEFT	478+71.75 - 479+21.75	1
SN 038-3912 IMPROVEMENTS		
RIGHT	485+45.25 - 485+95.25	1
LEFT	487+16.75 - 487+66.75	1
TOTAL		4

TRAFFIC BARRIER TERMINAL, TYPE 5A

SIDE	STATION TO STATION	EACH
SN 038-3911 IMPROVEMENTS		
RIGHT	477+73.25 - 477+86.50	1
LEFT	478+58.50 - 478+71.75	1
SN 038-3912 IMPROVEMENTS		
RIGHT	485+95.25 - 486+08.50	1
LEFT	487+03.50 - 487+16.75	1
TOTAL		4

PIPE CULVERT REMOVAL

STATION	SIZE	SIDE	FOOT
SN 038-3911 IMPROVEMENTS			
475+00	30"	RIGHT	32
479+41	18"	LEFT	43
479+63	18"	RIGHT	22
TOTAL			97

CONCRETE REMOVAL (SPECIAL)

STATION	SIDE	EACH
SN 038-3911 IMPROVEMENTS		
477+99	RIGHT	1
TOTAL		1

PIPE CULVERTS, CLASS D, TYPE 1 15"

STATION	SIDE	FOOT
SN 038-3912 IMPROVEMENTS		
485+00	RIGHT	34
485+00	LEFT	32
TOTAL		66

PIPE CULVERTS, CLASS D, TYPE 1 18"

STATION	SIDE	FOOT
SN 038-3911 IMPROVEMENTS		
479+41	LEFT	36
479+63	RIGHT	34
TOTAL		70

PIPE CULVERTS, CLASS D, TYPE 1 30"

STATION	SIDE	FOOT
SN 038-3911 IMPROVEMENTS		
475+00	RIGHT	40
TOTAL		40

PERIMETER EROSION BARRIER

STATION TO STATION	SIDE	FOOT
SN 038-3911 IMPROVEMENTS		
474+75 - 475+50	LEFT	75
474+80 - 475+20	RIGHT	45
479+23 - 479+59	LEFT	40
479+46 - 479+80	RIGHT	35
SN 038-3912 IMPROVEMENTS		
484+83 - 485+17	RIGHT	35
484+84 - 485+16	LEFT	35
488+50 - 489+25	LEFT	75
488+50 - 489+25	RIGHT	75
TOTAL		415

TEMPORARY DITCH CHECKS

STATION	SIDE	FOOT
SN 038-3911 IMPROVEMENTS		
476+75	LEFT	12
477+98	LEFT	12
478+00	RIGHT	12
478+46	RIGHT	12
478+46	LEFT	12
SN 038-3912 IMPROVEMENTS		
486+06	RIGHT	12
486+59	LEFT	12
486+60	RIGHT	12
487+08	LEFT	12
487+55	RIGHT	12
487+80	LEFT	12
TOTAL		132

INLET AND PIPE PROTECTION

STATION	SIDE	EACH
SN 038-3911 IMPROVEMENTS		
474+80	RIGHT	1
479+59	LEFT	1
479+80	RIGHT	1
SN 038-3912 IMPROVEMENTS		
484+83	RIGHT	1
484+84	LEFT	1
TOTAL		5

EARTHWORK SUMMARY

STATION TO STATION	EARTH EXCAVATION	CHANNEL EXCAVATION	STRUCTURE EXCAVATION	FILL	WASTE (SHORTAGE)
	CU YD	CU YD	CU YD	CU YD	CU YD
SN 038-3911 IMPROVEMENTS					
RDWY 474+75.00 - 477+86.50	553			815	(400)
RDWY 478+58.50 - 482+00.00	268			1,844	(1,643)
CHANNEL		535			
STRUCTURE			75		
SN 038-3912 IMPROVEMENTS					
RDWY 482+00.00 - 486+19.00	549			1,681	(1,269)
RDWY 486+93.00 - 489+25.00	98			312	(239)
CHANNEL		485			
STRUCTURE			85		
TOTAL		1,468	1,020	160	4,652 (3,551)
USE		1,470	1,020	160	4,652 (3,550)

(@ 25% SHRINKAGE)

AGGREGATE SURFACE COURSE, TYPE A

STATION TO STATION	THICKNESS	WIDTH	LENGTH	TON
SN 038-3911 IMPROVEMENTS				
474+75.00 - 476+00.00	1.00'	21.79' AVG.	125.00'	191
476+00.00 - 477+86.50	1.00'	25.00'	186.50'	326
478+58.50 - 482+00.00	1.00'	25.00'	341.50'	598
SN 038-3912 IMPROVEMENTS				
482+00.00 - 486+19.00	1.00'	25.00'	419.00'	733
486+93.00 - 488+00.00	1.00'	25.00'	107.00'	187
488+00.00 - 489+25.00	1.00'	21.64' AVG.	125.00'	189
TOTAL				2,224

AGGREGATE SURFACE COURSE, TYPE B

STATION TO STATION	THICKNESS	WIDTH	LENGTH	TON
SN 038-3911 IMPROVEMENTS				
ENTR. - 479+41.00 LT	0.50'	18' & VAR.	57.2'	43
TOTAL				43



1 ROAD CLOSED 1 MILE AHEAD LOCAL TRAFFIC ONLY R11-3
 ROAD CLOSED 1 MILE AHEAD LOCAL TRAFFIC ONLY

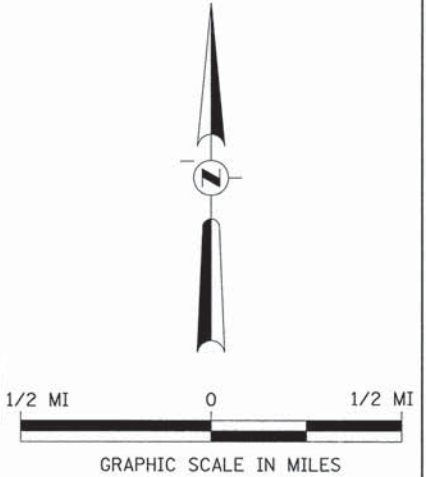
2 ROAD CLOSED 3/4 MILE AHEAD LOCAL TRAFFIC ONLY R11-3
 ROAD CLOSED 3/4 MILE AHEAD LOCAL TRAFFIC ONLY

3 ROAD CLOSED AHEAD W20-3
 ROAD CLOSED AHEAD

4 ROAD CLOSED 500 FT W20-3
 ROAD CLOSED 500 FT

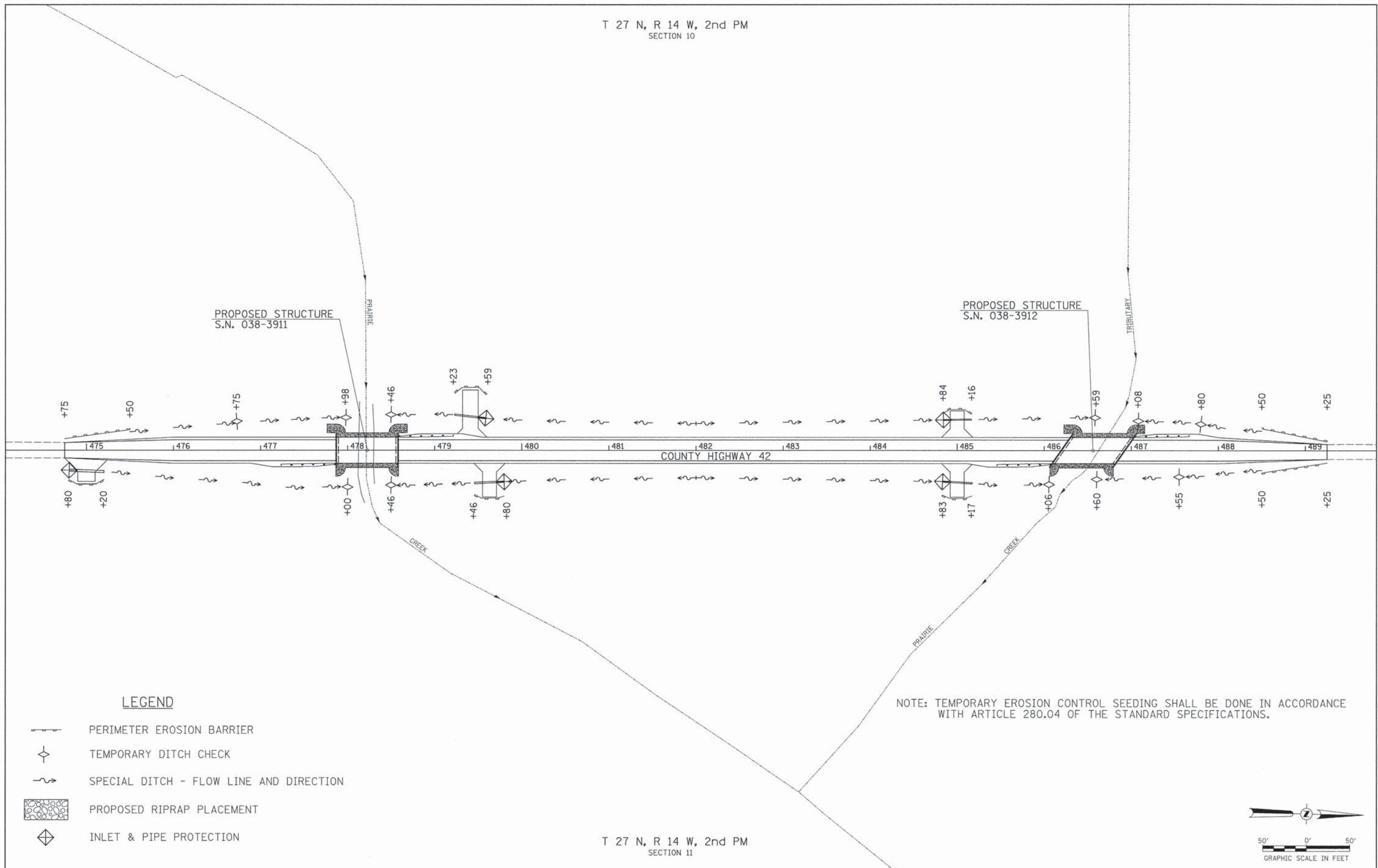
5 TYPE III BARRICADES

SEE STANDARD BLR 21 AND SPECIAL PROVISIONS








FILE NAME = V:\Bridges\3332-Iroquois\3332h001.dgn	USER NAME = cthomas	DESIGNED -	REVISED -	IROQUOIS COUNTY COUNTY HIGHWAY 42 OVER PRAIRIE CREEK AND PRAIRIE CREEK TRIBUTARY	TRAFFIC CONTROL PLAN		RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.	
	PLOT SCALE = 1,0000' / 1" =	DRAWN -	REVISED -		SCALE: NONE	SHEET NO. 1 OF 1 SHEETS	STA. 474+75.00	TO STA. 489+25.00	CH 42 11-00173-04-BR & 11-00173-05-BR	IROQUOIS	44	4
	PLOT DATE = 1/22/2014	CHECKED -	REVISED -						CONTRACT NO. 87555			
		DATE -	REVISED -						FED. AID PROJECT BROS-0075(18)			

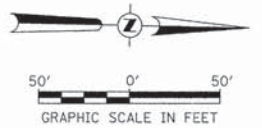
T 27 N, R 14 W, 2nd PM
SECTION 10



LEGEND

-  PERIMETER EROSION BARRIER
-  TEMPORARY DITCH CHECK
-  SPECIAL DITCH - FLOW LINE AND DIRECTION
-  PROPOSED RIPRAP PLACEMENT
-  INLET & PIPE PROTECTION

NOTE: TEMPORARY EROSION CONTROL SEEDING SHALL BE DONE IN ACCORDANCE WITH ARTICLE 280.04 OF THE STANDARD SPECIFICATIONS.



T 27 N, R 14 W, 2nd PM
SECTION 11

FILE NAME = V:\Bridges\3332-Iroquois\3332a001.dgn	USER NAME = cthomas	DESIGNED -	REVISED -	IROQUOIS COUNTY COUNTY HIGHWAY 42 OVER PRAIRIE CREEK AND PRAIRIE CREEK TRIBUTARY	STORM WATER POLLUTION PREVENTION PLAN	RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	PLOT SCALE = 50.0000' / 1"	DRAWN -	REVISED -			CH 42 11-00173-04-BR & 11-00173-05-BR	IROQUOIS	44	5	
	PLOT DATE = 1/22/2014	CHECKED -	REVISED -			CONTRACT NO. 87555				
		DATE -	REVISED -			FED. ROAD DIST. NO. 7 ILLINOIS FED. AID PROJECT BROS-0075(18)				
				SCALE: 1" = 50'		SHEET NO. 1 OF 1 SHEETS		STA. 474+75.00 TO STA. 489+25.00		

B.M.: Mag-Nail in top of 30" CMP Sta. 474+85, 23' Rt. Elev. 630.64
 Mag-Nail in top of 18" CMP Sta. 479+62, 22' Lt. Elev. 629.77

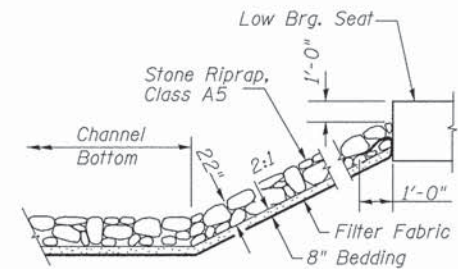
Existing Structure:
 Single span precast channel beam bridge on timber pile closed abutments with reinforced concrete caps. The structure is 29'-6" back to back of abutments, 26'-0" out to out deck, and is not skewed. Str. No. 038-3903

Salvage: None
 Road to be closed to traffic during construction.

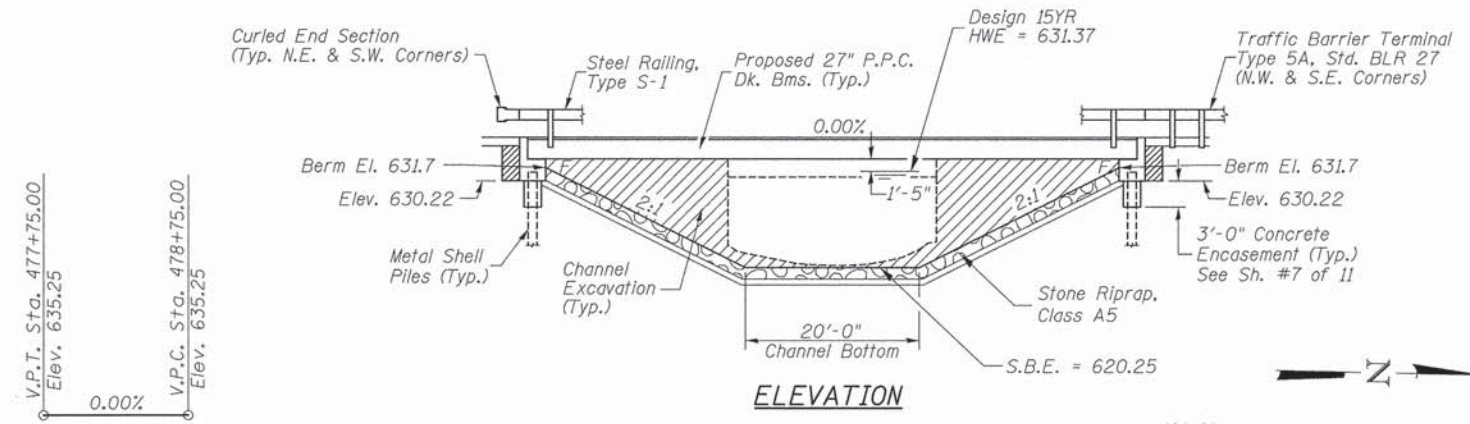
**PRAIRIE CREEK
 BUILT 2011 BY
 IROQUOIS COUNTY
 SEC. 11-00173-04-BR
 C.H. 42 STATION 478+22.50
 F.A. PROJ. BROS-0075(181)
 STR. NO. 038-3911 LOADING HL-93**

NAME PLATE

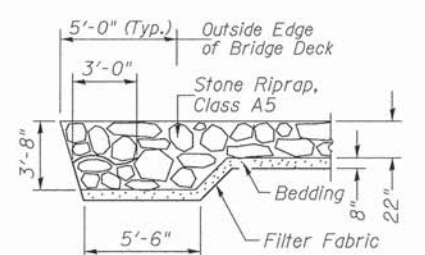
Locate Name Plate at S.E. Wingwall
 Corner of Bridge (See Std. 515001)



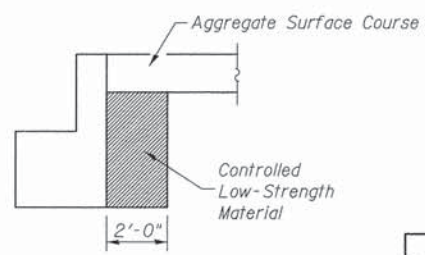
STONE RIPRAP DETAIL



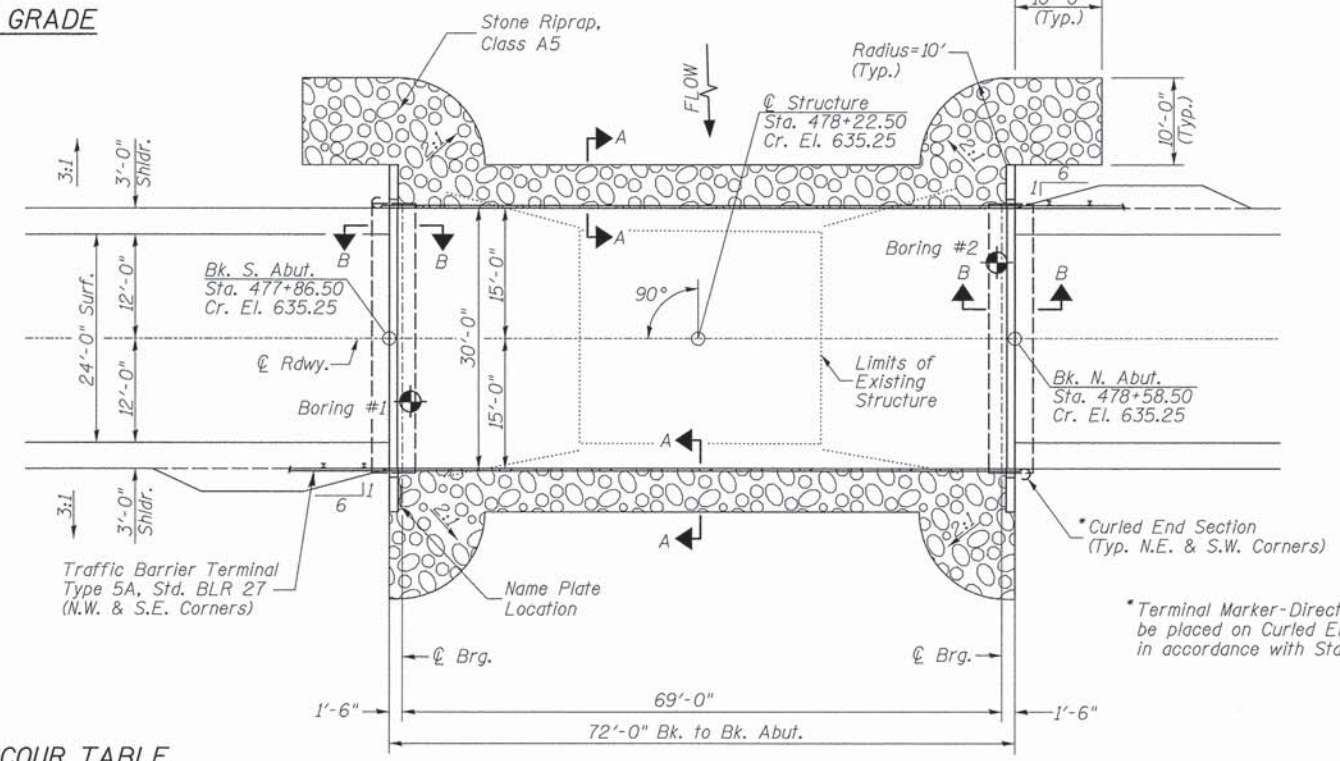
PROFILE GRADE



SECTION A-A



SECTION B-B



PLAN

DESIGN SCOUR TABLE

Location	S. Abut.	N. Abut.
Design Scour Elevation	630.22	630.22

WATERWAY INFORMATION

Drainage Area = 6.99 Sq. Mi. Low Grade Elev. = 632.22 @ Sta. 475+50.00

Flood	Freq. Yr.	Q C.F.S.	Opening Exist.	Sq. Ft. Prop.	Nat. H.W.E.	Head - Ft. Exist.	Head - Ft. Prop.	Headwater El. Exist.	Headwater El. Prop.
Design	15	961	226	470	631.37	0.42	0.04	631.79	631.41
Base	100	1,540	226	518	632.11	0.31	0.07	632.42	632.18

OVER-THE-ROAD AREA

Freq. Yr.	Existing	Proposed
15	0	0
100	138	0

DESIGN SPECIFICATIONS
 2012 AASHTO LRFD Bridge Design Specifications
 6th Edition with 2013 Interims

DESIGN STRESSES

(FIELD UNITS) f'c = 3,500 p.s.i. fy = 60,000 p.s.i. (Rein.)
 (PRECAST PRESTRESSED UNITS) f'c = 6,000 p.s.i. f'ci = 5,000 p.s.i. f's = 270,000 p.s.i. (1/2" Strands) f'si = 201,960 p.s.i. (1/2" Strands)

LOADING HL-93

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

GENERAL NOTES

The Contractor shall drive test piles to 110% of the nominal required bearing specified in production locations at the substructures specified or approved by the Engineer before ordering the remainder of the piles.
 For Soil Boring Logs, See Sheets 8 thru 11 of 11.
 A Corrosion Inhibitor shall be used in the concrete for Precast Prestressed Concrete Deck Beams according to Article 1020.05(b)(12) of the Standard Specifications.
 Reinforcement Bars shall conform to the requirements of ASTM A706 Grade 60. Reinforcement Bars designated (E) shall be epoxy coated.
 Layout of the slope protection system may be varied in the field to suit ground conditions as directed by the Engineer.
 Excavation behind existing abutment walls shall be performed to balance front and back soil pressure before removing the existing superstructure.
 The top surface of the beams shall be finished according to the IDOT Manual for Fabrication of Precast Prestressed Concrete Products.

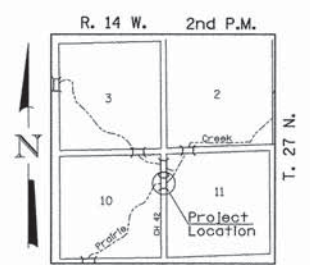
TOTAL BILL OF MATERIAL

ITEM	UNIT	SUPER	SUB	TOTAL
Channel Excavation	CU YD	—	535	535
Stone Riprap, Class A5	TON	—	470	470
Filter Fabric	SQ YD	—	390	390
① Removal of Existing Structures No. 1	EACH	—	—	1
Structure Excavation	CU YD	—	75	75
Concrete Structures	CU YD	—	25.4	25.4
① Precast Prestressed Concrete Deck Beams (27" Depth)	SQ FT	2,105	—	2,105
① Reinforcement Bars	POUND	—	2,850	2,850
Steel Railing, Type S1	FOOT	144	—	144
Furnishing Metal Shell Piles 12"x0.250"	FOOT	—	416	416
Driving Piles	FOOT	—	416	416
Test Pile Metal Shells	EACH	—	2	2
Concrete Encasement	CU YD	—	2.6	2.6
Name Plates	EACH	—	1	1
① Controlled Low-Strength Material	CU YD	—	18.0	18.0

① See Special Provisions

I certify that to the best of my knowledge, information and belief, this bridge design is structurally adequate for the design loading shown on the plans. The design is an economical one for the style of structure and complies with requirements of the current AASHTO Standard Specification for Highway Bridges.
 This design complies with all requirements of the current AASHTO Guide Specifications for Seismic Design of highway bridges.

[Signature] 1/23/2014
 Illinois Structural No. 6440
 Expires 11/30/2014

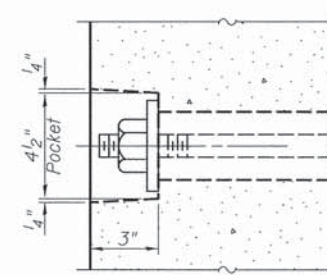
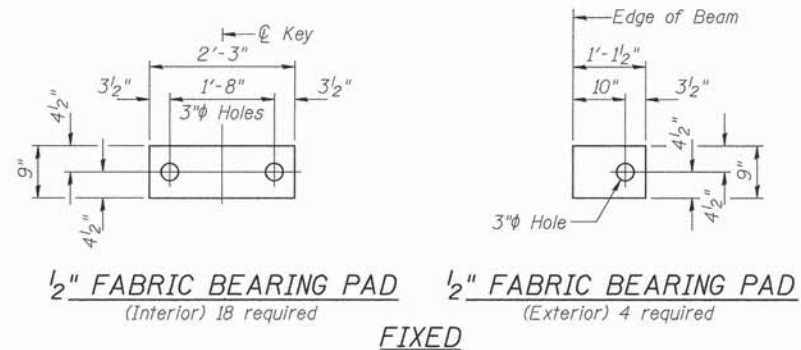


LOCATION SKETCH

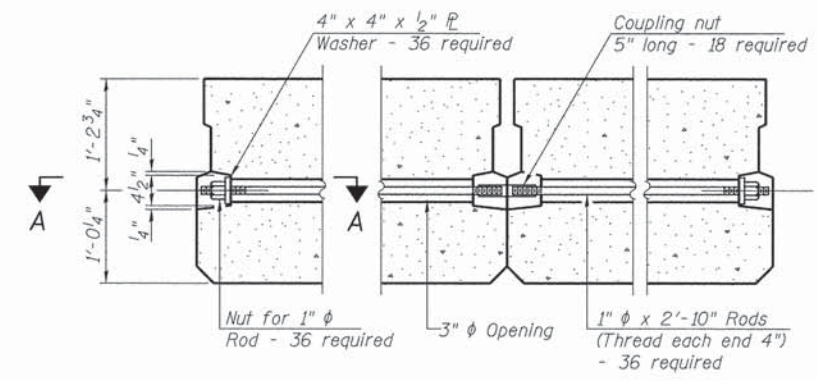
**GENERAL PLAN & ELEVATION
 IROQUOIS COUNTY
 SECTION 11-00173-04-BR
 C.H. 42 OVER PRAIRIE CREEK**

DESIGNED	S.T.M.
CHECKED	C.T.M./J.E.H.
DRAWN	S.T.M.
CHECKED	C.T.M./J.E.H.

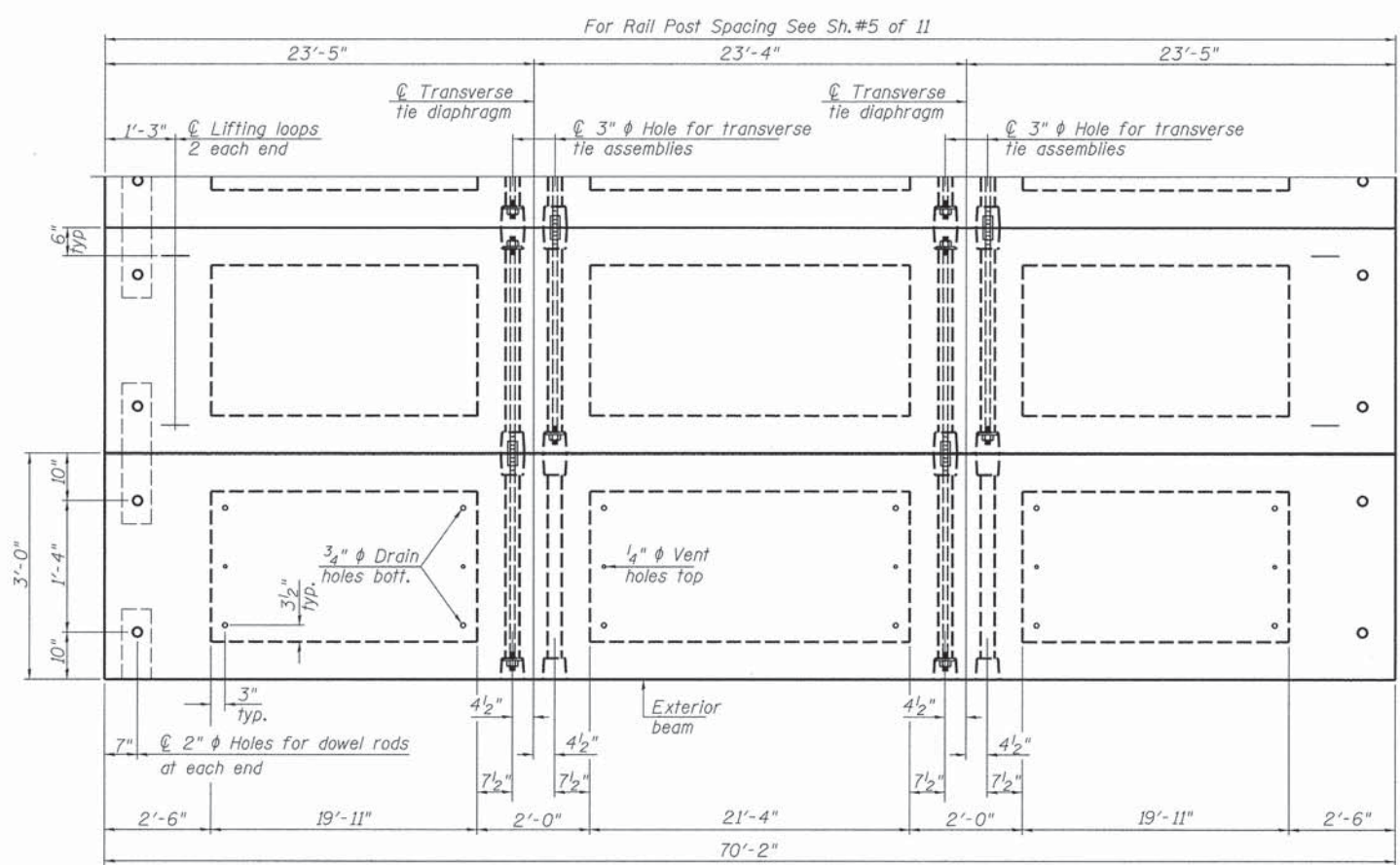
SHEET NO. 1	ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
11 SHEETS	CH 42	11-00173-04-BR	IROQUOIS	44	7
S.N. 038-3911			CONTRACT NO. 87555		
FED. ROAD DIST. NO. 7 ILLINOIS			FED. AID PROJECT BROS-0075(181)		



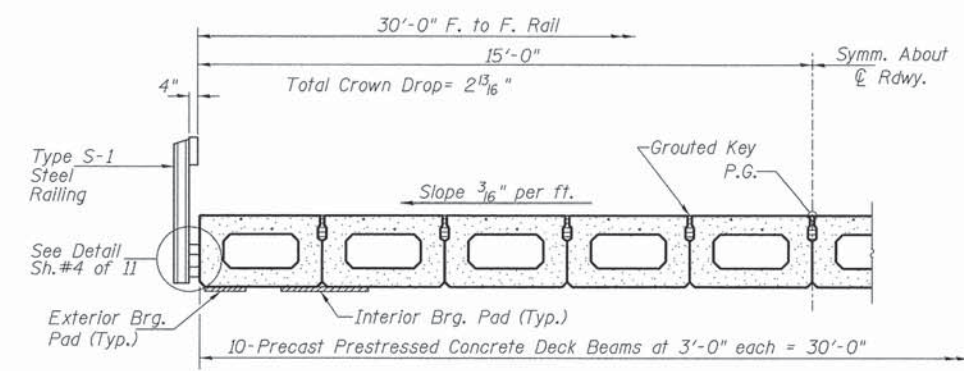
SECTION A-A



TYPICAL TRANSVERSE TIE ASSEMBLY



PLAN VIEW



HALF CROSS SECTION

BILL OF MATERIAL

ITEM	UNIT	QUANTITY
① Precast Prestressed Concrete Deck Beams (27" Depth)	SQ FT	2,105
① See Special Provisions		

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

NOTES

Prestressing steel shall be uncoated high strength, low relaxation 7-wire strand, Grade 270. The nominal diameter shall be 1/2" and the nominal cross-sectional area shall be 0.153 sq. in. The 1" 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.

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.

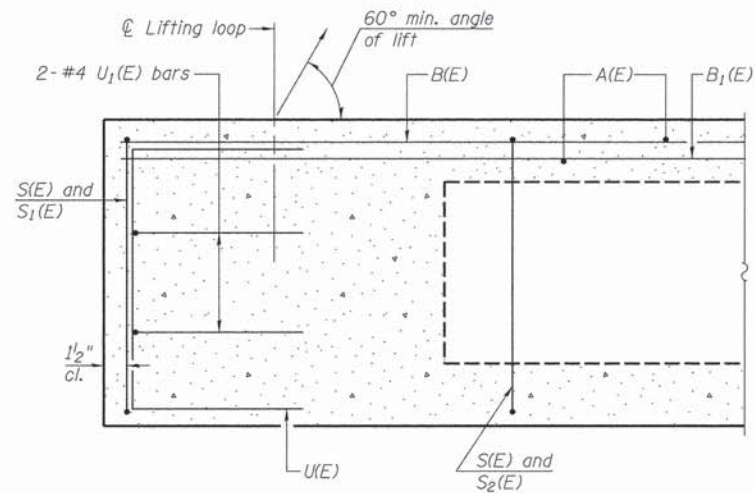
Corrosion Inhibitor, per Article 1020.05(b)(12) and 1021.07 of the Standard Specifications, shall be used in the concrete for precast prestressed concrete deck beams.

Compressive strength of prestressed concrete, f'c, shall be 6000 psi.

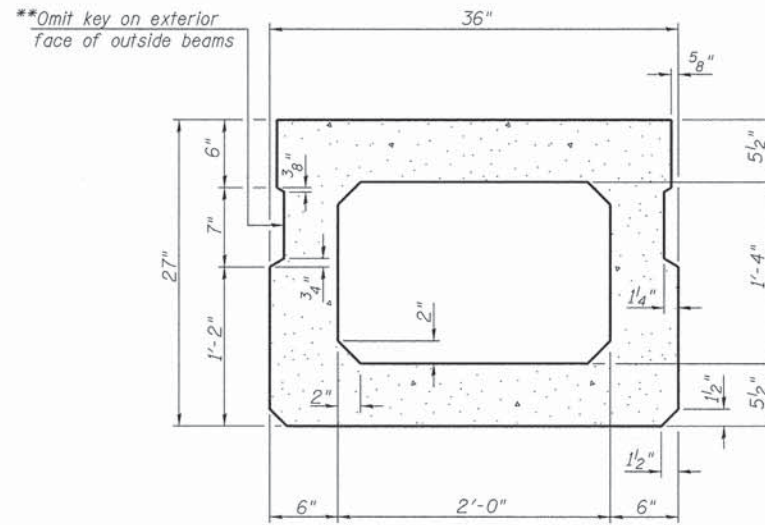
Compressive strength of prestressed concrete at release, f'ci, shall be 5000 psi.

SUPERSTRUCTURE
IROQUOIS COUNTY
SECTION 11-00173-04-BR
C.H. 42 OVER PRAIRIE CREEK

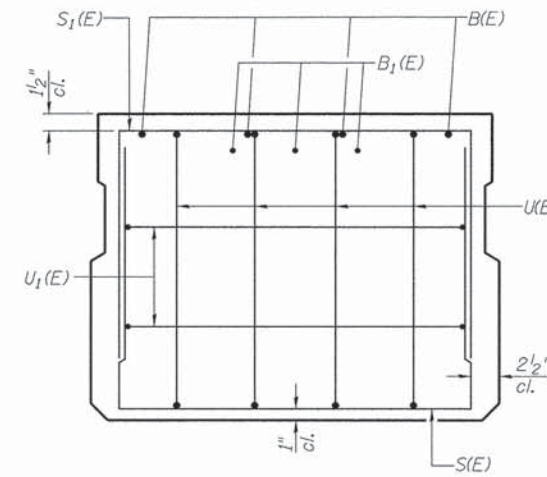
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	CH 42	11-00173-04-BR	IROQUOIS	44	8
S.N. 038-3911			CONTRACT NO. 87555		
FED. ROAD DIST. NO. 7 ILLINOIS			FED. AID PROJECT BROS-0075(181)		



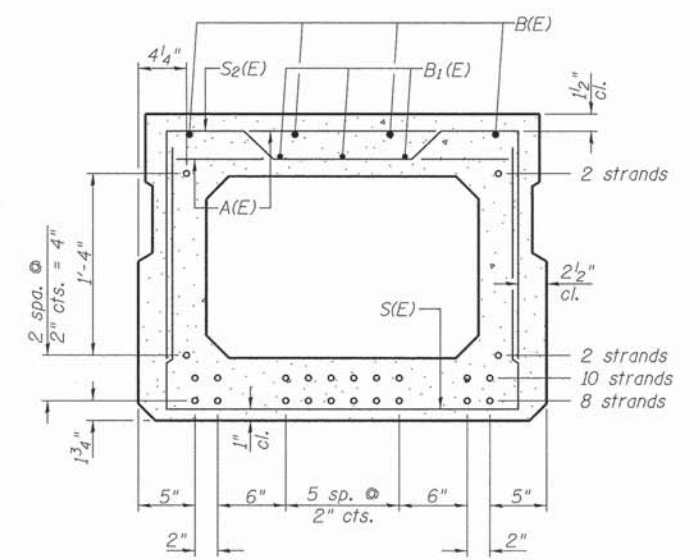
SECTION C-C



SECTION A-A
(Showing Dimensions)



VIEW B-B

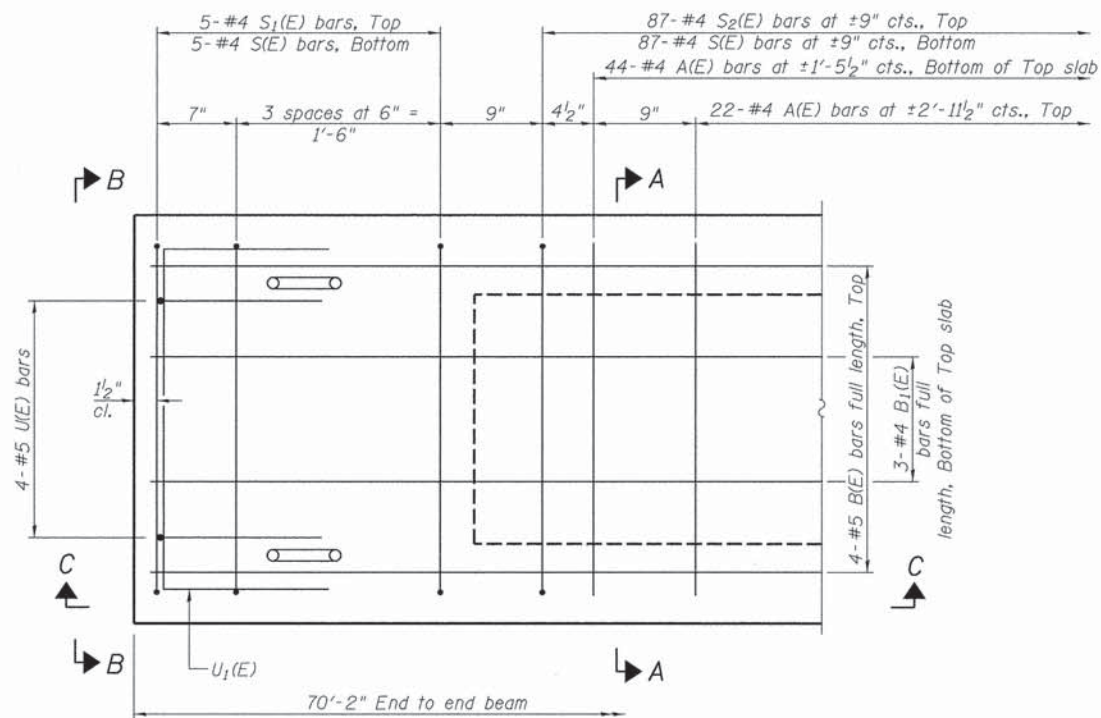


SECTION A-A

22-1/2" Strands Each Strand Stressed to 30,900 Lbs.
8-Strands 1 3/4" up, 10-Strands 3 3/4" up, 2-Strands 5 3/4" up,
2-Strands 1'-9 3/4" up

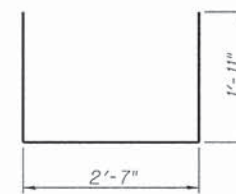
Note: Place the number of strands specified in each row symmetrically about the centerline of beam in the permissible strand locations shown.

**Rail post anchor devices (Sheet 4 of 11) to be cast into exterior face of outside beams.

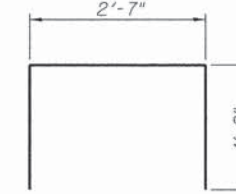


PLAN VIEW

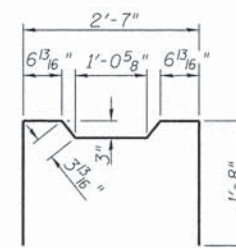
Note: Spacing of S(E) and S2(E) bars may be adjusted up to 4" in the immediate area of the transverse tie diaphragms to miss the block outs for the transverse ties.



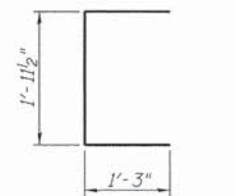
BAR S(E)



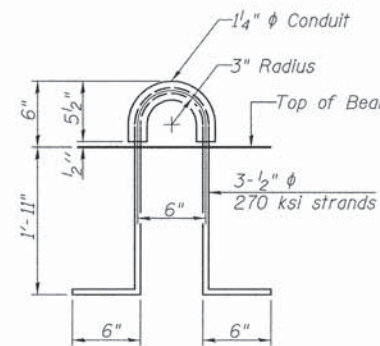
BAR S1(E)



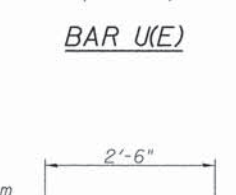
BAR S2(E)



BAR U(E)



LIFTING LOOP DETAIL



BAR U1(E)

BAR LIST-ONE BEAM ONLY

(For information only)

Bar	No.	Size	Length	Shape
A(E)	66	#4	2'-7"	—
B(E)	4	#5	*69'-11"	—
B1(E)	3	#4	*69'-11"	—
S(E)	97	#4	6'-5"	⌊
S1(E)	10	#4	5'-11"	⌊
S2(E)	87	#4	6'-2"	⌊
U(E)	8	#5	4'-6"	⌊
U1(E)	4	#4	5'-0"	⌊

* Total Length, Lap as necessary

Note: See sheet 2 of 11 for additional details and Bill of Material.

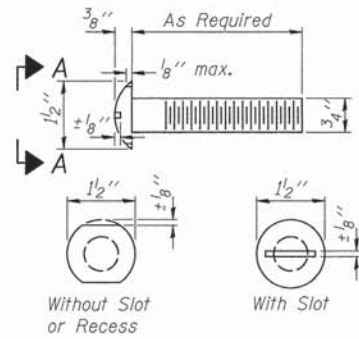
MINIMUM BAR LAP

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

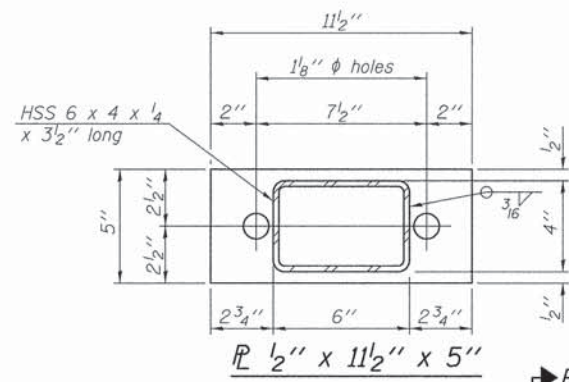
SUPERSTRUCTURE DETAILS
IROQUOIS COUNTY
SECTION 11-00173-04-BR
C.H. 42 OVER PRAIRIE CREEK

SHEET NO. 3 11 SHEETS	ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	CH 42	11-00173-04-BR	IROQUOIS	44	9
	S.N. 038-3911		CONTRACT NO. 87555		
	FED. ROAD DIST. NO. 7 ILLINOIS		FED. AID PROJECT BR05-0075(181)		

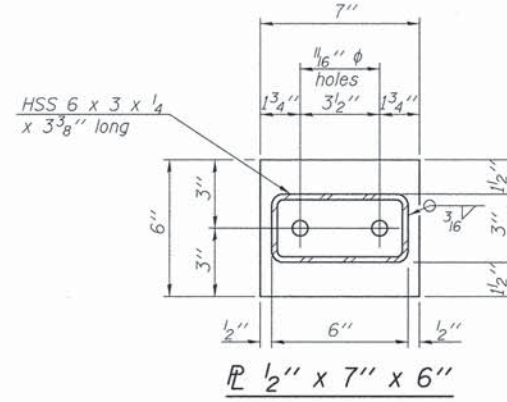
FOR RAIL POST SPACING SEE SH.#5 OF 11



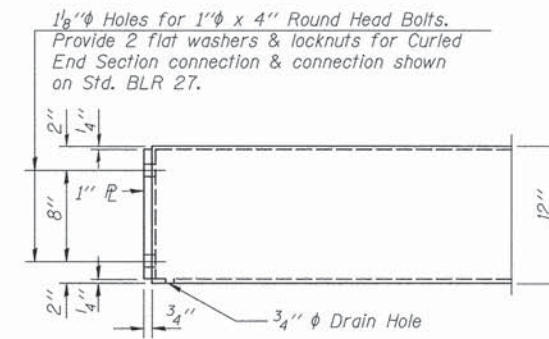
VIEW A-A
ROUND HEAD BOLT



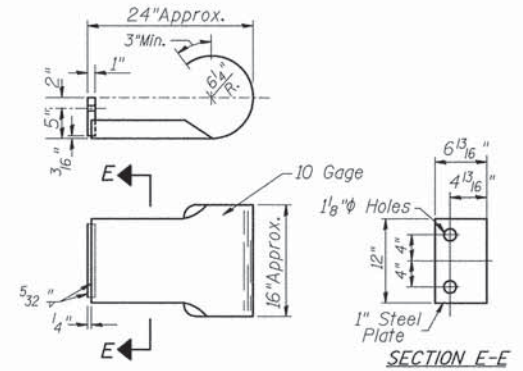
SECTION B-B



SECTION AT RAILING POST

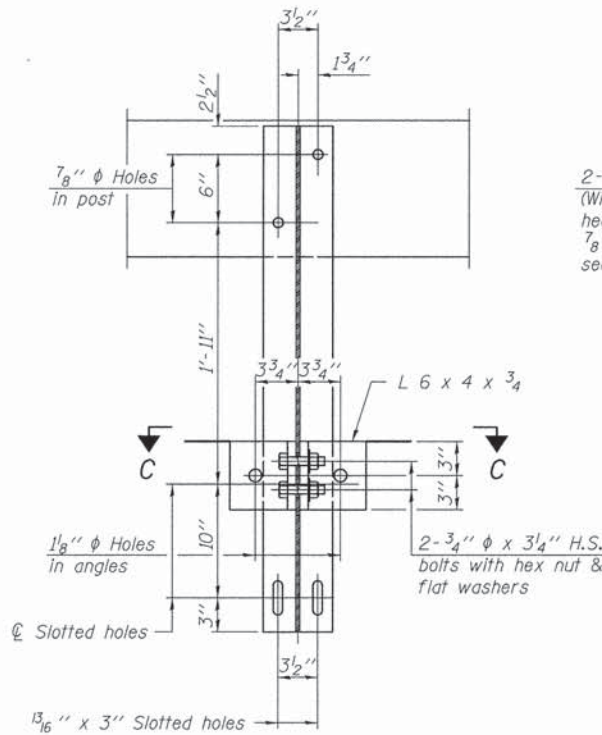


END OF RAIL DETAILS

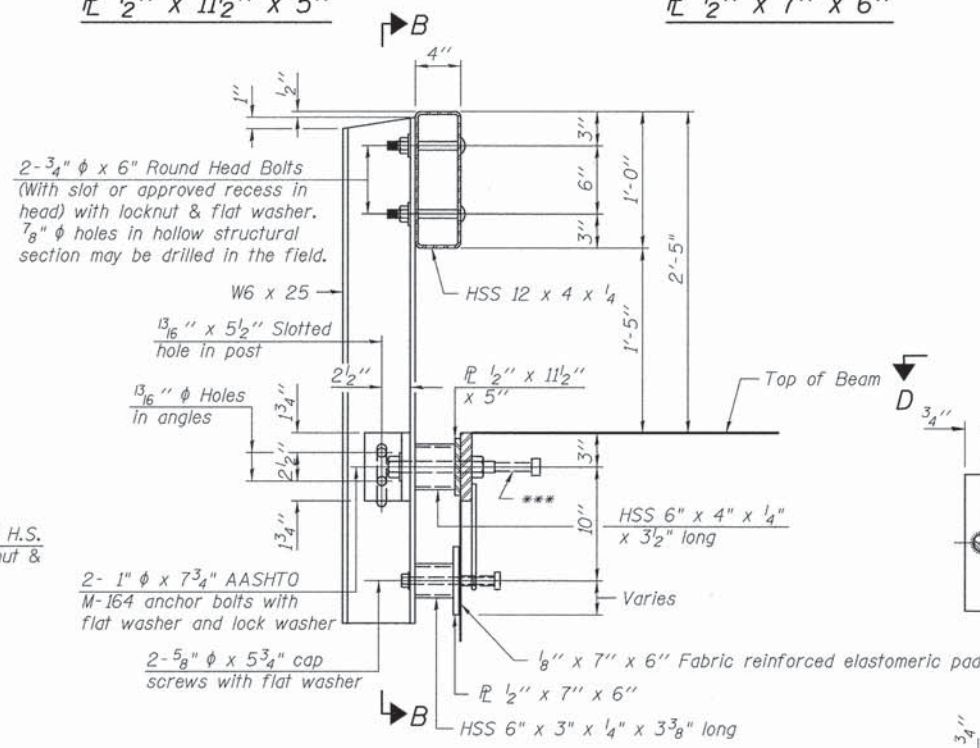


SECTION E-E
CURLLED END SECTION

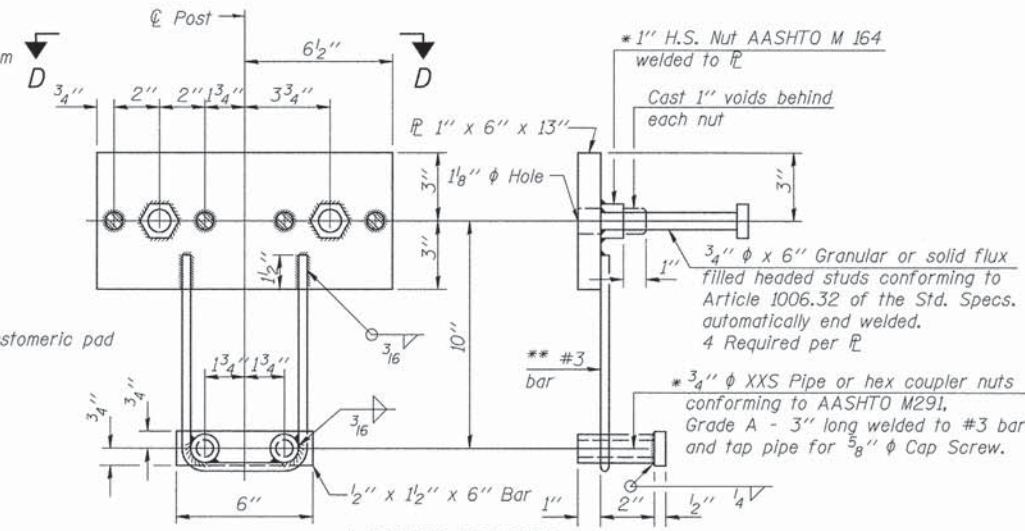
(2 Req'd) Cost Included with Steel Railing, Type S-1.
Terminal Markers - Direct Applied shall be placed on end of each Curled End Section (N.E. & S.W. Corners)



SECTION B-B

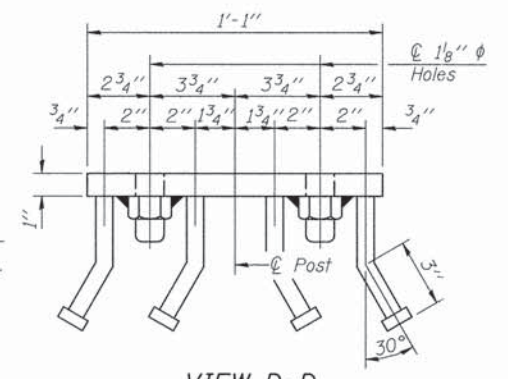


SECTION AT RAILING POST

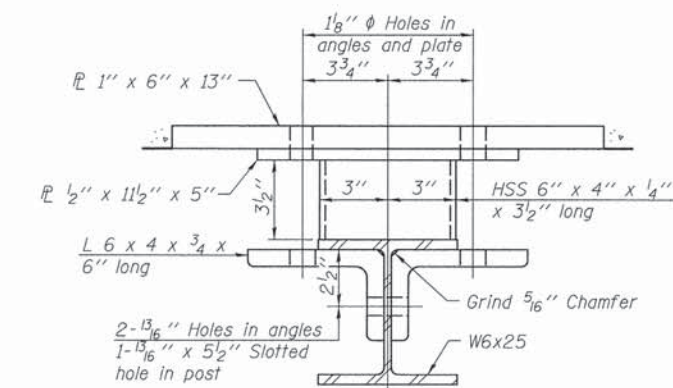


ANCHOR DEVICE

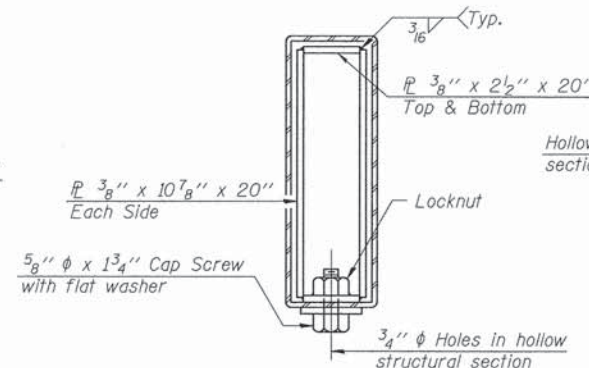
* Threaded areas shall be plugged or blocked off during casting of beam.



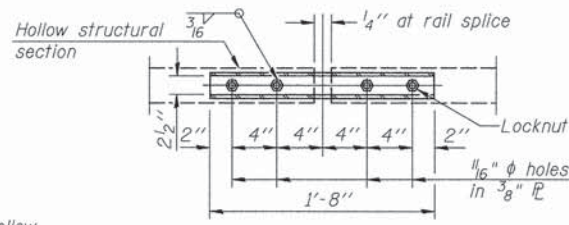
VIEW D-D



SECTION C-C



SECTIONS AT RAIL SPLICE



PLAN-BOTT. SPLICE
TYPICAL

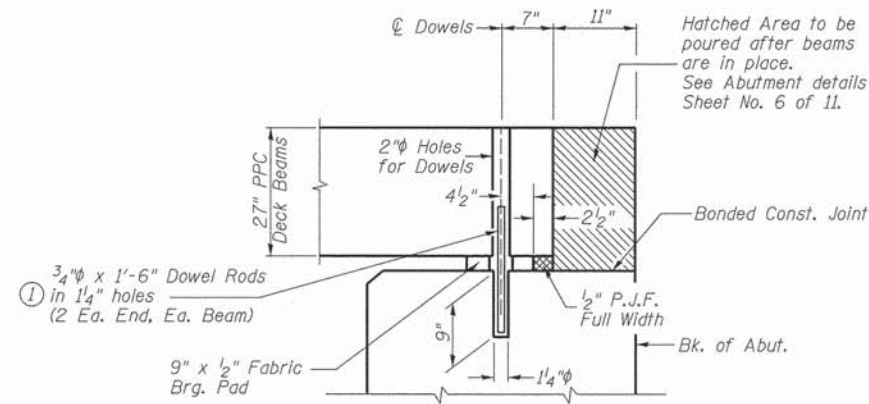
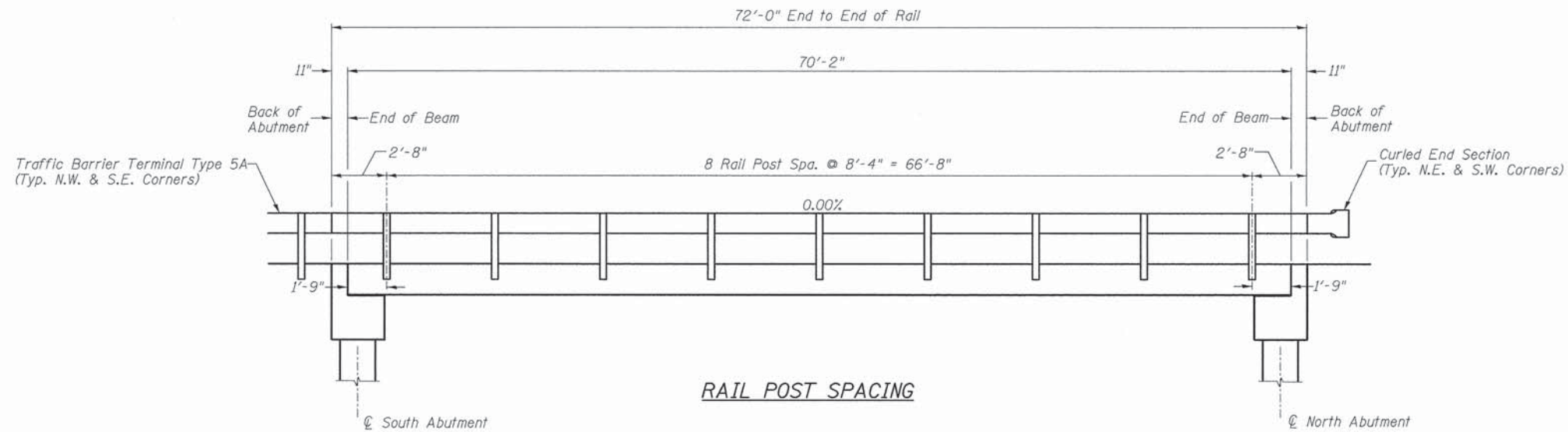
** Whenever the lower insert assemblies interfere with strand locations, the #3 bars shall be cut and adjusted in order to allow raising or lowering of the lower inserts. Maximum adjustment not to exceed 1/2 inch.

BILL OF MATERIAL

ITEM	UNIT	QUANTITY
Steel Railing, Type S-1	FOOT	144

STEEL RAILING TYPE S-1
IROQUOIS COUNTY
SECTION 11-00173-04-BR
C.H. 42 OVER PRAIRIE CREEK

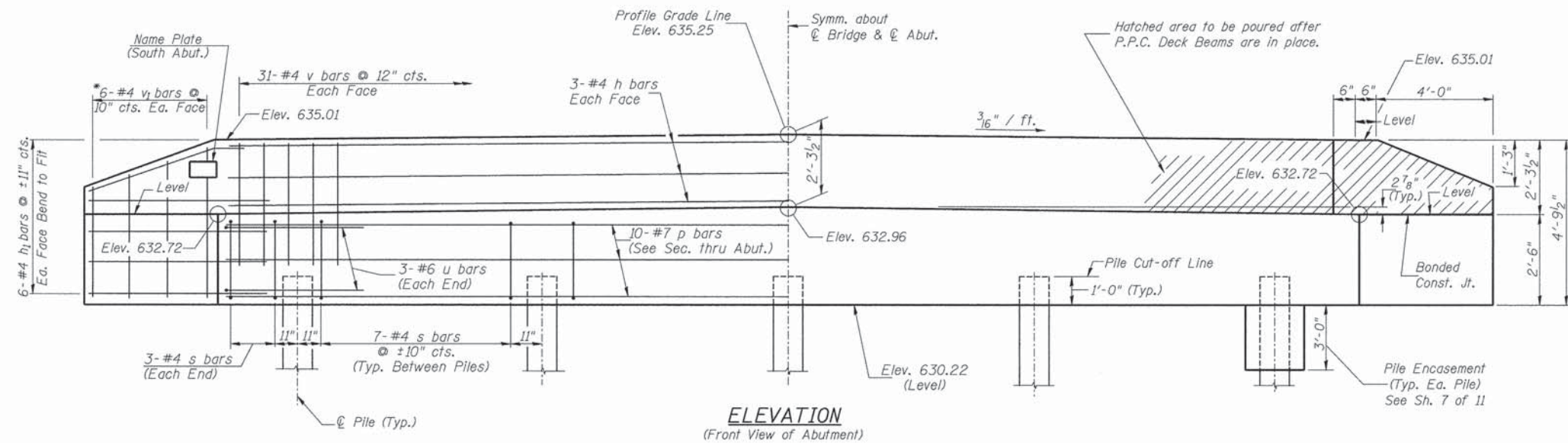
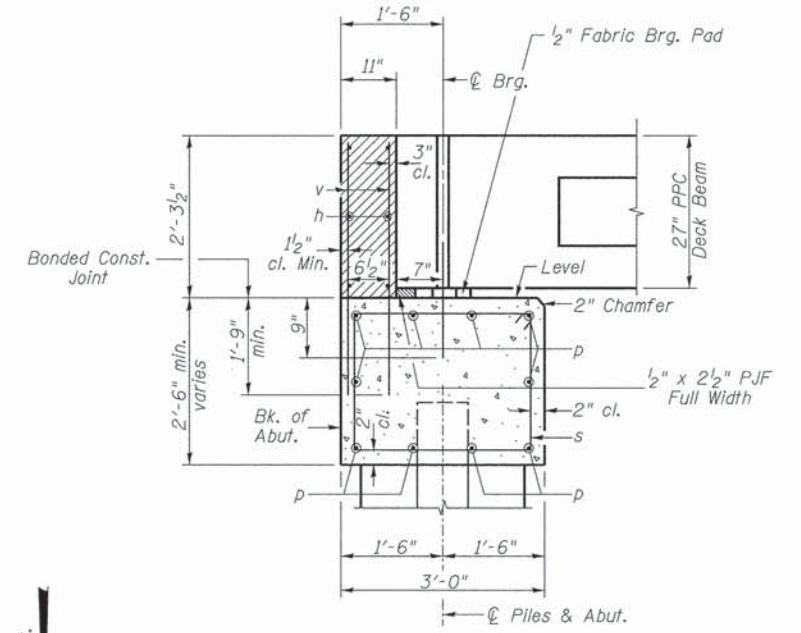
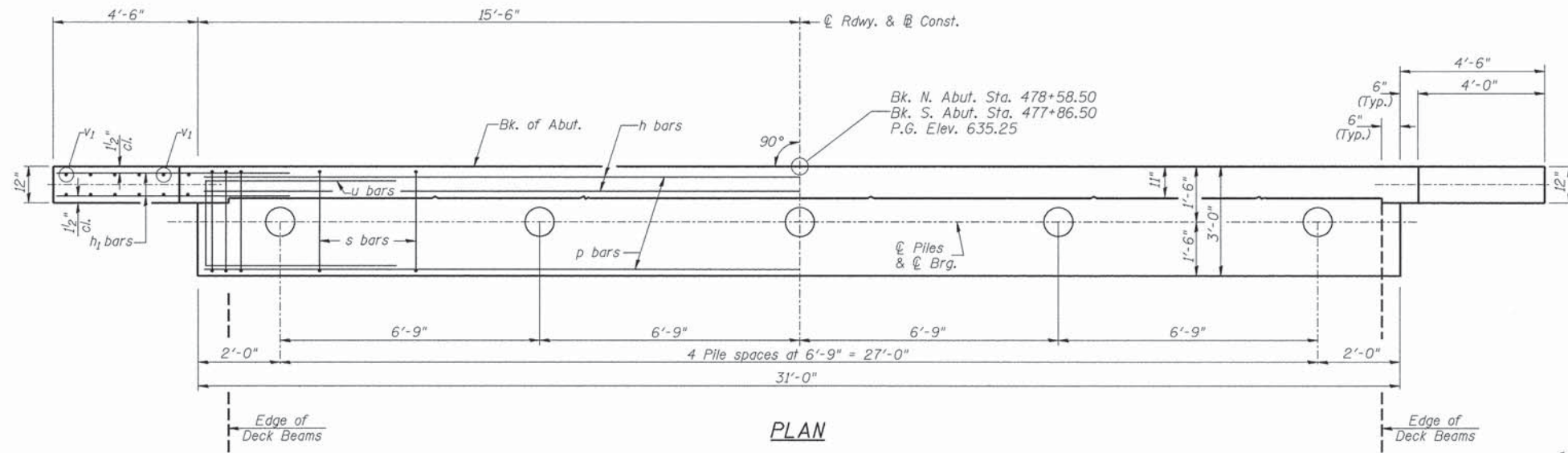
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	CH 42	11-00173-04-BR	IROQUOIS	44	10
S.N. 038-3911			CONTRACT NO. 87555		
FED. ROAD DIST. NO. 7 ILLINOIS			FED. AID PROJECT BROS-0075(181)		



① Dowel Rods to be grouted after beams are in place and allowed to cure (Min. 24 hr.) prior to grouting the shear keys.

**RAIL POST SPACING AND
SUPERSTRUCTURE DETAILS
IROQUOIS COUNTY
SECTION 11-00173-04-BR
C.H. 42 OVER PRAIRIE CREEK**

SHEET NO. 5 11 SHEETS	ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	CH 42	11-00173-04-BR	IROQUOIS	44	11
	S.N. 038-3911		CONTRACT NO. 87555		
FED. ROAD DIST. NO. 7		ILLINOIS	FED. AID PROJECT BROS-0075(181)		



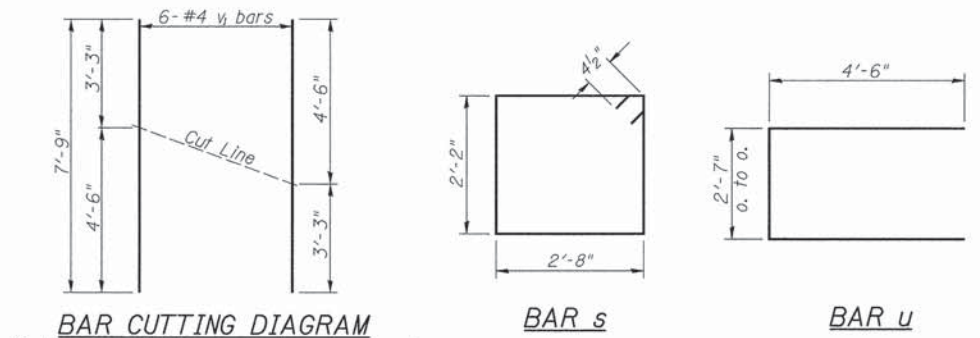
**TWO ABUTMENTS
BILL OF MATERIAL**

BAR NO.	SIZE	LENGTH	SHAPE
h	12	#4 30'-9"	—
h ₁	48	#4 6'-6"	—
p	20	#7 30'-9"	—
s	68	#4 10'-5"	□
u	12	#6 11'-7"	□
v	124	#4 4'-0"	—
v ₁	24	#4 7'-9"	—
Concrete Structures			CU YD 25.4
Reinforcement Bars			POUND 2,850
Structure Excavation			CU YD 75
Name Plates			EACH 1
Furnishing Metal Shell Piles 12"x0.250"			FOOT 416
Driving Piles			FOOT 416
Test Pile Metal Shells			EACH 2
Concrete Encasement			CU YD 2.6

① See Special Provisions

DESIGN STRESSES
 $f'_c = 3,500$ p.s.i.
 $f_y = 60,000$ p.s.i.

PILE DATA
 Type & Size: Metal Shell 12"x0.250" walls
 Nominal Required Bearing: 275 kips
 Factored Resistance Available: 150 kips
 Est. Length: 52' North Abutment
 52' South Abutment
 No. Req'd.: 10 (Includes 1 Test Pile at Each Abut.)

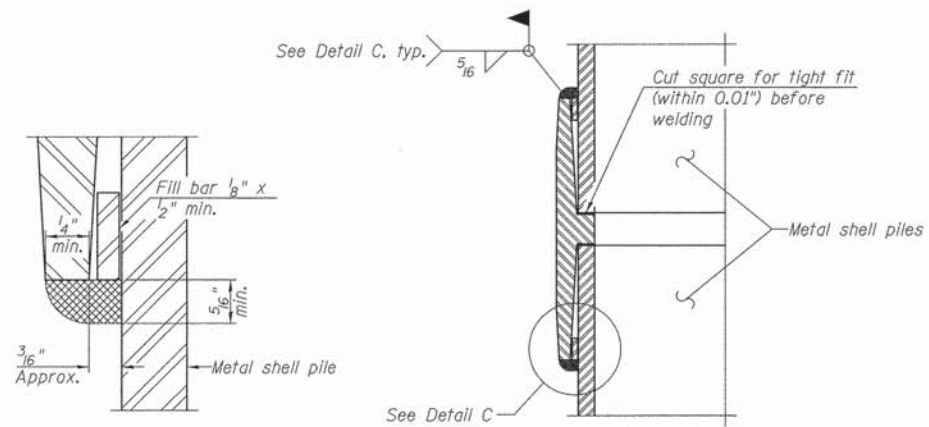
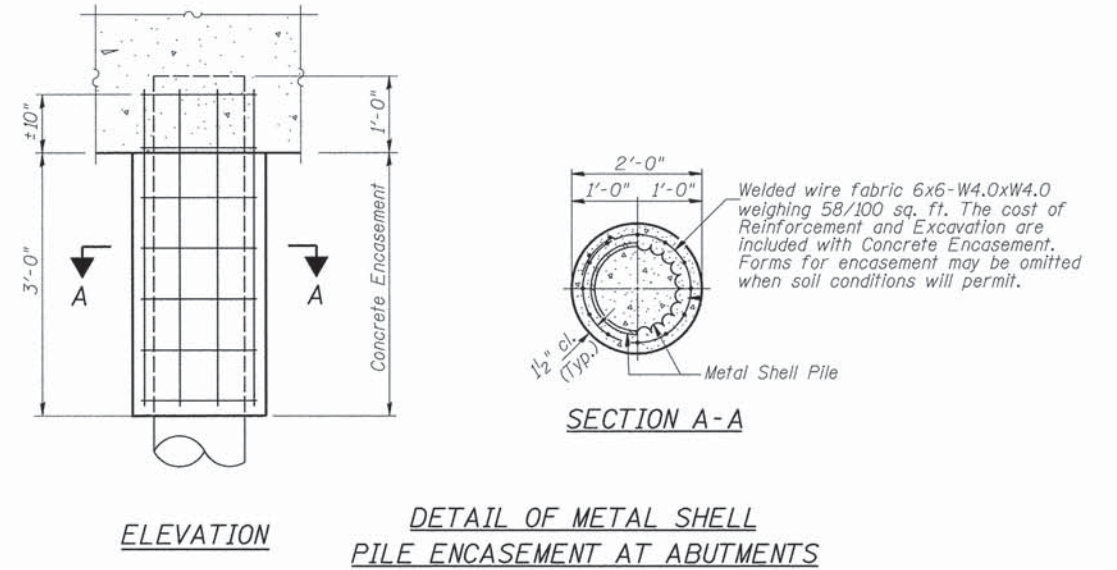
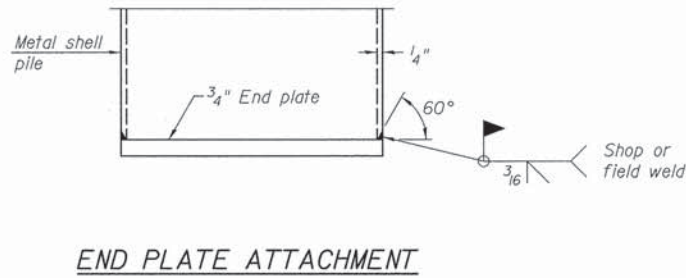
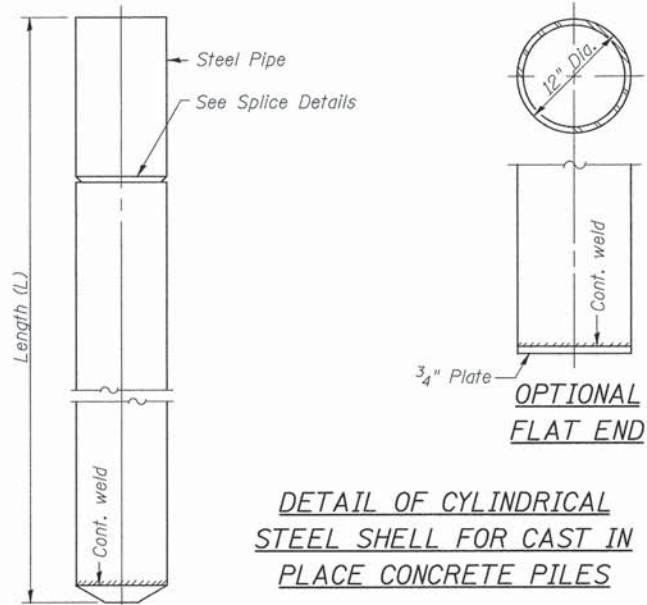


- NOTES**
- The Backwall and the portion of the Wingwalls above the bonded construction joint shall be cast against the in-place beam.
 - Reinforcement bars shall conform to ASTM A706 Grade 60.

**ABUTMENTS
IROQUOIS COUNTY
SECTION 11-00173-04-BR
C.H. 42 OVER PRAIRIE CREEK**

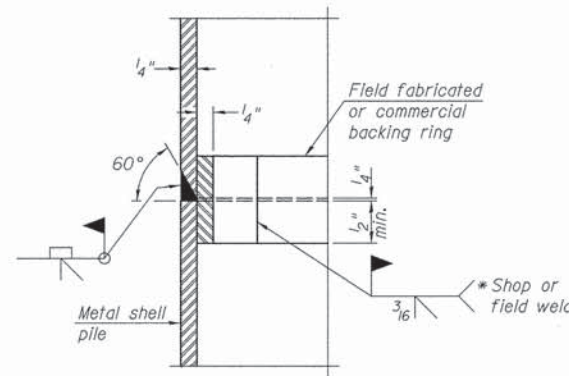
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	CH 42	11-00173-04-BR	IROQUOIS	44	12
S.N. 038-3911			CONTRACT NO. 87555		
FED. ROAD DIST. NO. 7 ILLINOIS			FED. AID PROJECT BROS-0075(181)		

Notes: Driving and bearing ends of pipe shall be cut square. The thickness of the shell shall be 0.25 inches with a tolerance of 5%. The shell shall be according to Article 1006.05(a) of the Standard Specifications, and shall be ASTM A252 Grade 3.

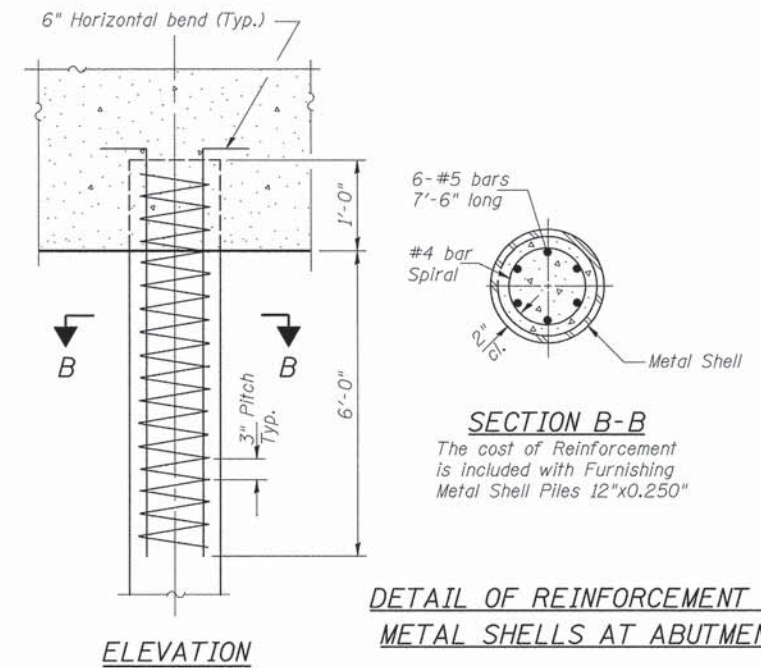


WELDED COMMERCIAL SPLICE

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



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



**METAL SHELL PILES
IROQUOIS COUNTY
SECTION 11-00173-04-BR
C.H. 42 OVER PRAIRIE CREEK**

SHEET NO. 7 11 SHEETS	ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	CH 42	11-00173-04-BR	IROQUOIS	44	13
	S.N. 038-3911		CONTRACT NO. 87555		
FED. ROAD DIST. NO. 7 ILLINOIS		FED. AID PROJECT BROS-0075(181)			

Midwest Testing Services, Inc.
3705 Progress Blvd.
Peru, IL 61354

BORING LOG
Sheet 1 of 4

Phone: 815-223-6696
Fax: 815-223-6659
e-mail: mts37@comcast.net

Client: Hutchison Engineering, Inc.
Project Name: Section 11-00173-04-BR C.H. 42
Project Site: Over Prairie Creek
Iroquois County, IL.

Boring No. B-1
Surface Elev. 632.7
Auger Depth 71' Rotary Depth NA
Start Date 11/23/13 Finish Date 11/23/13

Location: 8' Right Station 477+88

(DEPTH) ELEV.	DESCRIPTION OF MATERIALS	Graphic Log	Depth in feet	SAMPLES						DRILLED BY	REMARKS
				Sample No.	Sample Type	Qu (TSF)	N Value (Blows)	Bulge / Shear	Moisture (%)		
632.70										Randy Safranski Diedrich D-120	
631.70			1								
630.70			2								
629.70	Stiff Black And Brown Clay (Fill)		3	1	SS	1.6	7	S	14		
628.70			4								
627.70			5								
626.70			6	2	SS	1.2	6	B	18		
625.70			7								
624.70			8	3	SS	1.1	6	B	21		
623.70	Stiff Brownish Gray Clay		9								
622.70			10	4	SS	1.0	5	B	25		
621.70			11								
620.70			12								
619.70			13	5	SS	1.4	10	B	23		
618.70	Very Stiff Gray Clay Till		14								
617.70			15	6	SS	2.1	14	B	22		
616.70			16								
615.70			17								
614.70			18	7	SS	2.3	15	B	21		
613.70			19								
612.70			20	8	SS	2.6	15	B	22		

Groundwater Data: No groundwater encountered at time of subsurface investigation.
Comments:

Midwest Testing Services, Inc.
3705 Progress Blvd.
Peru, IL 61354

BORING LOG
Sheet 2 of 4

Phone: 815-223-6696
Fax: 815-223-6659
e-mail: mts37@comcast.net

Client: Hutchison Engineering, Inc.
Project Name: Section 11-00173-04-BR C.H. 42
Project Site: Over Prairie Creek
Iroquois County, IL.

Boring No. B-1
Surface Elev. 632.7
Auger Depth 71' Rotary Depth NA
Start Date 11/23/13 Finish Date 11/23/13

Location: 8' Right Station 477+88

(DEPTH) ELEV.	DESCRIPTION OF MATERIALS	Graphic Log	Depth in feet	SAMPLES						DRILLED BY	REMARKS
				Sample No.	Sample Type	Qu (TSF)	N Value (Blows)	Bulge / Shear	Moisture (%)		
611.70										Randy Safranski Diedrich D-120	
610.70			22								
609.70			23	9	SS	1.5	11	B	23		
608.70			24								
607.70	Stiff Gray Clay Till		25								
606.70			26	10	SS	1.3	10	B	24		
605.70			27								
604.70			28	11	SS	1.4	11	B	23		
603.70			29								
602.70			30	12	SS	1.8	12	B	21		
601.70			31								
600.70			32								
599.70			33								
598.70			34								
597.70			35								
596.70			36	13	SS	1.7	11	B	23		
595.70			37								
594.70	Very Stiff Gray Clay Till		38								
593.70			39								
592.70			40	14	SS	2.3	15	B	22		
591.70			41								

Groundwater Data: No groundwater encountered at time of subsurface investigation.
Comments:

BORING LOGS
IROQUOIS COUNTY
SECTION 11-00173-04-BR
C.H. 42 OVER PRAIRIE CREEK

SHEET NO. 8 11 SHEETS	ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	CH 42	11-00173-04-BR	IROQUOIS	44	14
S.N. 038-3911			CONTRACT NO. 87555		
FED. ROAD DIST. NO. 7 ILLINOIS			FED. AID PROJECT BR05-0075(181)		

Midwest Testing Services, Inc.
3705 Progress Blvd.
Peru, IL 61354

BORING LOG
Sheet 3 of 4

Phone: 815-223-6696
Fax: 815-223-6659
e-mail: mts37@comcast.net

Client: Hutchison Engineering, Inc.
Project Name: Section 11-00173-04-BR C.H. 42
Project Site: Over Prairie Creek
Iroquois County, IL.

Boring No. B-1
Surface Elev. 632.7
Auger Depth 71' Rotary Depth NA
Start Date 11/23/13 Finish Date 11/23/13

Location: 8' Right Station 477+88

(DEPTH) ELEV.	DESCRIPTION OF MATERIALS	Graphic Log	Depth in feet	SAMPLES						DRILLED BY	REMARKS
				Sample No.	Sample Type	Qu (TSF)	N Value (Blows)	Bulge / Shear	Moisture (%)		
590.70										Randy Safranski Diedrich D-120	
589.70			43								
588.70			44								
587.70			45	15	SS	2.3	15	B	22		
586.70			46								
585.70			47								
584.70			48								
583.70			49								
582.70			50	16	SS	2.3	14	B	23		
581.70			51								
580.70	Very Stiff Gray Clay Till		52								
579.70			53								
578.70			54								
577.70			55	17	SS	2.5	16	B	22		
576.70			56								
575.70			57								
574.70			58								
573.70			59								
572.70			60	18	SS	2.9	20	B	21		
571.70			61								
570.70			62								

Groundwater Data: No groundwater encountered at time of subsurface investigation.
Comments:

Midwest Testing Services, Inc.
3705 Progress Blvd.
Peru, IL 61354

BORING LOG
Sheet 4 of 4

Phone: 815-223-6696
Fax: 815-223-6659
e-mail: mts37@comcast.net

Client: Hutchison Engineering, Inc.
Project Name: Section 11-00173-04-BR C.H. 42
Project Site: Over Prairie Creek
Iroquois County, IL.

Boring No. B-1
Surface Elev. 632.7
Auger Depth 71' Rotary Depth NA
Start Date 11/23/13 Finish Date 11/23/13

Location: 8' Right Station 477+88

(DEPTH) ELEV.	DESCRIPTION OF MATERIALS	Graphic Log	Depth in feet	SAMPLES						DRILLED BY	REMARKS
				Sample No.	Sample Type	Qu (TSF)	N Value (Blows)	Bulge / Shear	Moisture (%)		
569.70										Randy Safranski Diedrich D-120	
568.70			64								
567.70			65	19	SS	3.2	22	B	21		
566.70	Very Stiff Gray Silty Loam Till		66								
565.70			67								
564.70			68								
563.70			69								
562.70			70	20	SS	3.6	26	S	16		
561.70			71								
560.70	Boring Terminated		72								
559.70			73								
558.70			74								
557.70			75								
556.70			76								
555.70			77								
554.70			78								
553.70			79								
552.70			80								
551.70			81								
550.70			82								
549.70			83								

Groundwater Data: No groundwater encountered at time of subsurface investigation.
Comments:

BORING LOGS
IROQUOIS COUNTY
SECTION 11-00173-04-BR
C.H. 42 OVER PRAIRIE CREEK

SHEET NO. 9 11 SHEETS	ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	CH 42	11-00173-04-BR	IROQUOIS	44	15
	S.N. 038-3911		CONTRACT NO. 87555		
FED. ROAD DIST. NO. 7 ILLINOIS			FED. AID PROJECT BROS-0075(181)		

Midwest Testing Services, Inc.
3705 Progress Blvd.
Peru, IL 61354

BORING LOG
Sheet 1 of 4

Phone: 815-223-6696
Fax: 815-223-6659
e-mail: mts37@comcast.net

Client: Hutchison Engineering, Inc.
Project Name: Section 11-00173-04-BR C.H. 42
Project Site: Over Prairie Creek
Iroquois County, IL.

Boring No. B-2
Surface Elev. 632.7
Auger Depth 71' Rotary Depth NA
Start Date 11/23/13 Finish Date 11/23/13

Location: 8' Left Station 478+57

(DEPTH) ELEV.	DESCRIPTION OF MATERIALS	Graphic Log	Depth in feet	SAMPLES						DRILLED BY Randy Safranski Diedrich D-120	REMARKS
				Sample No.	Sample Type	Qu (TSF)	N Value (Blows)	Bulge / Shear	Moisture (%)		
632.70											
631.70	Very Stiff Brown Gravely Loam (Fill)		1								
630.70			2								
629.70			3	1	SS	2.3	13	S	12		
628.70	Stiff Black And Brown Clay (Fill)		4								
627.70			5								
626.70			6	2	SS	1.6	8	B	18		
625.70	Stiff Brownish Gray Clay		7								
624.70			8								
623.70			9								
622.70	Medium Brownish Gray Clay		10								
621.70			11								
620.70			12								
619.70	Stiff Brownish Gray Clay		13	5	SS	1.0	6	B	24		
618.70			14								
617.70			15								
616.70	Stiff Brownish Gray Clay Till		16								
615.70			17								
614.70			18	7	SS	1.9	12	B	22		
613.70			19								
612.70			20	8	SS	1.6	11	B	23		

Groundwater Data: No groundwater encountered at time of subsurface investigation.
Comments:

Midwest Testing Services, Inc.
3705 Progress Blvd.
Peru, IL 61354

BORING LOG
Sheet 2 of 4

Phone: 815-223-6696
Fax: 815-223-6659
e-mail: mts37@comcast.net

Client: Hutchison Engineering, Inc.
Project Name: Section 11-00173-04-BR C.H. 42
Project Site: Over Prairie Creek
Iroquois County, IL.

Boring No. B-2
Surface Elev. 632.7
Auger Depth 71' Rotary Depth NA
Start Date 11/23/13 Finish Date 11/23/13

Location: 8' Left Station 478+57

(DEPTH) ELEV.	DESCRIPTION OF MATERIALS	Graphic Log	Depth in feet	SAMPLES						DRILLED BY Randy Safranski Diedrich D-120	REMARKS
				Sample No.	Sample Type	Qu (TSF)	N Value (Blows)	Bulge / Shear	Moisture (%)		
611.70											
610.70			22								
609.70			23	9	SS	1.4	10	B	23		
608.70	Stiff Gray Clay Till		24								
607.70			25								
606.70			26	10	SS	1.5	12	B	24		
605.70			27								
604.70			28	11	SS	1.6	12	B	22		
603.70			29								
602.70			30								
601.70			31	12	SS	1.7	11	B	25		
600.70			32								
599.70			33								
598.70			34								
597.70			35								
596.70	Very Stiff Gray Clay Till		36	13	SS	1.4	10	B	25		
595.70			37								
594.70			38								
593.70			39								
592.70			40								
591.70			41	14	SS	2.2	14	B	22		

Groundwater Data: No groundwater encountered at time of subsurface investigation.
Comments:

BORING LOGS
IROQUOIS COUNTY
SECTION 11-00173-04-BR
C.H. 42 OVER PRAIRIE CREEK

SHEET NO. 10 11 SHEETS	ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	CH 42	11-00173-04-BR	IROQUOIS	44	16
S.N. 038-3911			CONTRACT NO. 87555		
FED. ROAD DIST. NO. 7		ILLINOIS	FED. AID PROJECT BROS-0075(181)		

Midwest Testing Services, Inc.
3705 Progress Blvd.
Peru, IL 61354

BORING LOG
Sheet 3 of 4

Phone: 815-223-6696
Fax: 815-223-6659
e-mail: mts37@comcast.net

Client: Hutchison Engineering, Inc.
Project Name: Section 11-00173-04-BR C.H. 42
Project Site: Over Prairie Creek
Iroquois County, IL.

Boring No. B-2
Surface Elev. 632.7
Auger Depth 71' Rotary Depth NA
Start Date 11/23/13 Finish Date 11/23/13

Location: 8' Left Station 478+57

(DEPTH) ELEV.	DESCRIPTION OF MATERIALS	Graphic Log	Depth in feet	SAMPLES						DRILLED BY	REMARKS
				Sample No.	Sample Type	Qu (TSF)	N Value (Blows)	Bulge / Shear	Moisture (%)		
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586.70			46								
585.70			47								
584.70			48								
583.70			49								
582.70			50								
581.70	Very Stiff Gray Clay Till		51	16	SS	2.7	17	B	20		
580.70			52								
579.70			53								
578.70			54								
577.70			55								
576.70			56	17	SS	2.6	17	B	22		
575.70			57								
574.70			58								
573.70			59								
572.70			60								
571.70			61	18	SS	2.5	17	B	25		
570.70			62								

Groundwater Data: No groundwater encountered at time of subsurface investigation.
Comments:

Midwest Testing Services, Inc.
3705 Progress Blvd.
Peru, IL 61354

BORING LOG
Sheet 4 of 4

Phone: 815-223-6696
Fax: 815-223-6659
e-mail: mts37@comcast.net

Client: Hutchison Engineering, Inc.
Project Name: Section 11-00173-04-BR C.H. 42
Project Site: Over Prairie Creek
Iroquois County, IL.

Boring No. B-2
Surface Elev. 632.7
Auger Depth 71' Rotary Depth NA
Start Date 11/23/13 Finish Date 11/23/13

Location: 8' Left Station 478+57

(DEPTH) ELEV.	DESCRIPTION OF MATERIALS	Graphic Log	Depth in feet	SAMPLES						DRILLED BY	REMARKS
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568.70			64								
567.70			65								
566.70			66	19	SS	2.9	20	B	20		
565.70	Very Stiff Gray Silty Loam Till		67								
564.70			68								
563.70			69								
562.70			70								
561.70			71	20	SS	3.7	28	S	15		
560.70	Boring Terminated		72								
559.70			73								
558.70			74								
557.70			75								
556.70			76								
555.70			77								
554.70			78								
553.70			79								
552.70			80								
551.70			81								
550.70			82								
549.70			83								

Groundwater Data: No groundwater encountered at time of subsurface investigation.
Comments:

BORING LOGS
IROQUOIS COUNTY
SECTION 11-00173-04-BR
C.H. 42 OVER PRAIRIE CREEK

SHEET NO. 11 11 SHEETS	ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	CH 42	11-00173-04-BR	IROQUOIS	44	17
	S.N. 038-3911		CONTRACT NO. 87555		
	FED. ROAD DIST. NO. 7 ILLINOIS		FED. AID PROJECT BROS-0075(181)		

B.M.: Mag-Nail in top of 18" CMP
Sta. 479+62, 22' Lt.
Elev. 629.77

Mag-Nail in top of 18" CMP
Sta. 490+67, 24' Rt.
Elev. 631.67

Existing Structure:

Single span precast channel beam bridge on timber pile closed abutments with reinforced concrete caps. The structure is 37'-9" back to back of abutments, 26'-3" out to out deck, and is skewed 35°. Str. No. 038-3904

Salvage: None

Road to be closed to traffic during construction.

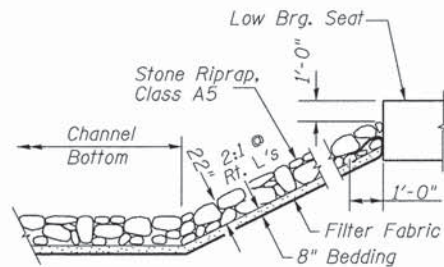
**PRAIRIE CREEK TRIBUTARY
BUILT 201 BY
IROQUOIS COUNTY
SEC. 11-00173-05-BR
C.H. 42 STATION 486+56.00
F.A. PROJ. BROS-0075(181)
STR. NO. 038-3912 LOADING HL-93**

NAME PLATE

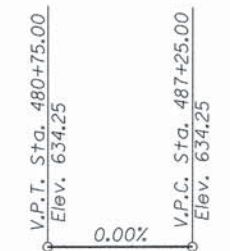
Locate Name Plate at S.E. Wingwall
Corner of Bridge (See Std. 515001)

GENERAL NOTES

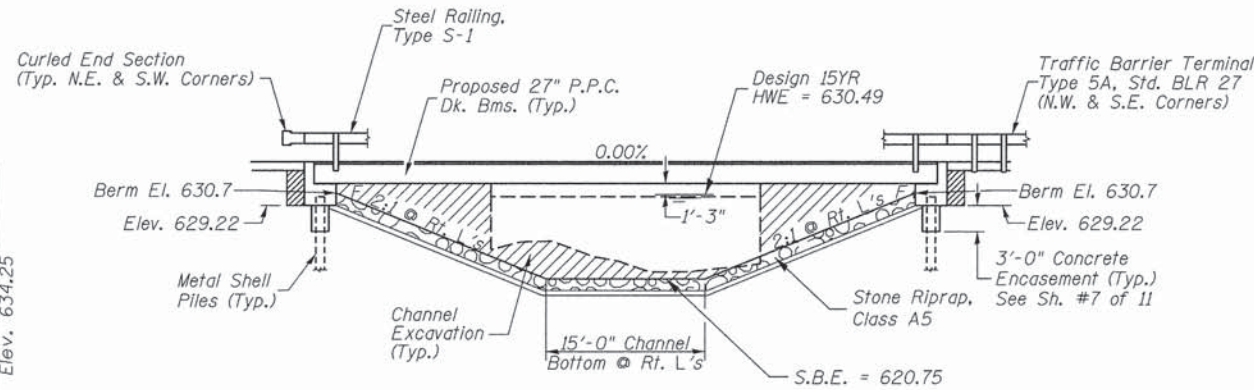
The Contractor shall drive test piles to 110% of the nominal required bearing specified in production locations at the substructures specified or approved by the Engineer before ordering the remainder of the piles.
For Soil Boring Logs, See Sheets 8 thru 11 of 11.
A Corrosion Inhibitor shall be used in the concrete for Precast Prestressed Concrete Deck Beams according to Article 1020.05(b)(12) of the Standard Specifications.
Reinforcement Bars shall conform to the requirements of ASTM A706 Grade 60. Reinforcement Bars designated (E) shall be epoxy coated.
Layout of the slope protection system may be varied in the field to suit ground conditions as directed by the Engineer.
Excavation behind existing abutment walls shall be performed to balance front and back soil pressure before removing the existing superstructure.
The top surface of the beams shall be finished according to the IDOT Manual for Fabrication of Precast Prestressed Concrete Products.



STONE RIPRAP DETAIL

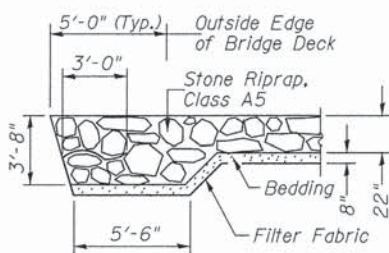


PROFILE GRADE

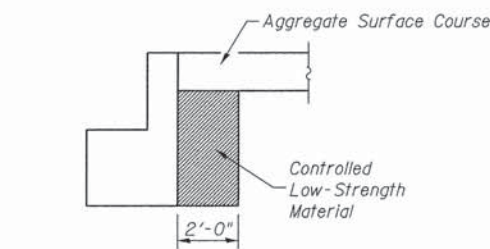


ELEVATION

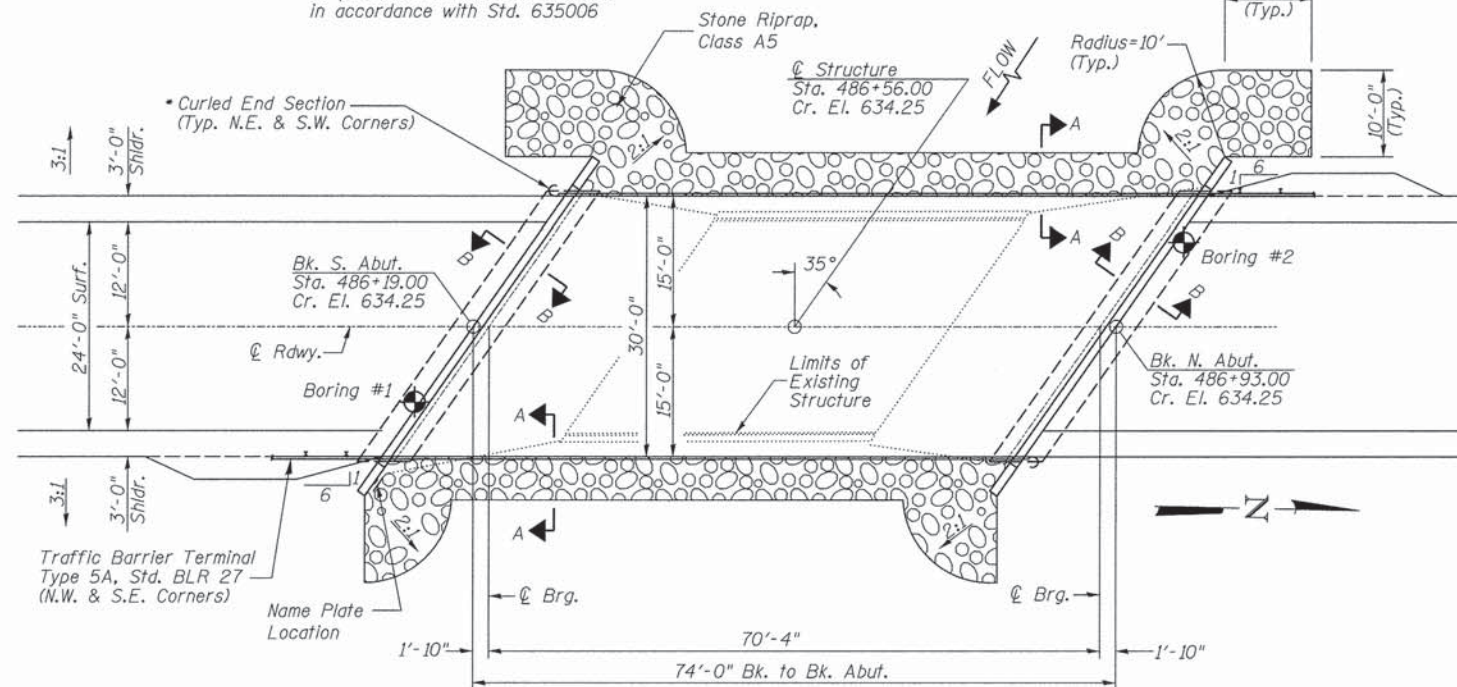
* Terminal Marker-Direct Applied to be placed on Curled End Sections in accordance with Std. 635006



SECTION A-A



SECTION B-B



PLAN

DESIGN SCOUR TABLE

Location	S. Abut. N. Abut.
Design Scour Elevation	629.22 629.22

WATERWAY INFORMATION

Drainage Area = 7.33 Sq. Mi.		Low Grade Elev. = 632.84 @ Sta. 489+25.00	
Flood Yr.	Q C.F.S.	Opening Sq. Ft. Exist.	Nat. Prop. H.W.E. Exist. Prop. Exist. Prop.
Design 15	942	183	336 630.49 0.47 0.15 630.96 630.64
Base 100	1,502	183	405 631.73 1.40 0.47 633.13 632.20

DESIGN SPECIFICATIONS

2012 AASHTO LRFD Bridge Design Specifications
6th Edition with 2013 Interims

DESIGN STRESSES

(FIELD UNITS) $f'_c = 3,500$ p.s.i.
 $f_y = 60,000$ p.s.i. (Rein.)

(PRECAST PRESTRESSED UNITS) $f'_c = 6,000$ p.s.i.
 $f'_{ci} = 5,000$ p.s.i.
 $f'_s = 270,000$ p.s.i. ($\frac{1}{2}$ " Strands)
 $f'_{sl} = 201,960$ p.s.i. ($\frac{1}{2}$ " Strands)

LOADING HL-93

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

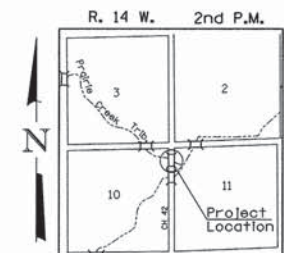
TOTAL BILL OF MATERIAL

ITEM	UNIT	SUPER	SUB	TOTAL
Channel Excavation	CU YD	—	485	485
Stone Riprap, Class A5	TON	—	460	460
Filter Fabric	SQ YD	—	380	380
① Removal of Existing Structures No. 2	EACH	—	—	1
Structure Excavation	CU YD	—	85	85
Concrete Structures	CU YD	—	30.5	30.5
① Precast Prestressed Concrete Deck Beams (27" Depth)	SQ FT	2,153	—	2,153
① Reinforcement Bars	POUND	—	3,360	3,360
Steel Railing, Type S1	FOOT	148	—	148
Furnishing Metal Shell Piles 12"x0.250"	FOOT	—	410	410
Driving Piles	FOOT	—	410	410
Test Pile Metal Shells	EACH	—	2	2
Concrete Encasement	CU YD	—	3.1	3.1
Name Plates	EACH	—	1	1
① Controlled Low-Strength Material	CU YD	—	22.0	22.0

① See Special Provisions

I certify that to the best of my knowledge, information and belief, this bridge design is structurally adequate for the design loading shown on the plans. The design is an economical one for the style of structure and complies with requirements of the current AASHTO Standard Specification for Highway Bridges.
This design complies with all requirements of the current AASHTO Gulde Specifications for Seismic Design of highway bridges.

[Signature] 1/23/2014
Illinois Structural No. 6440
Expires 11/30/2014

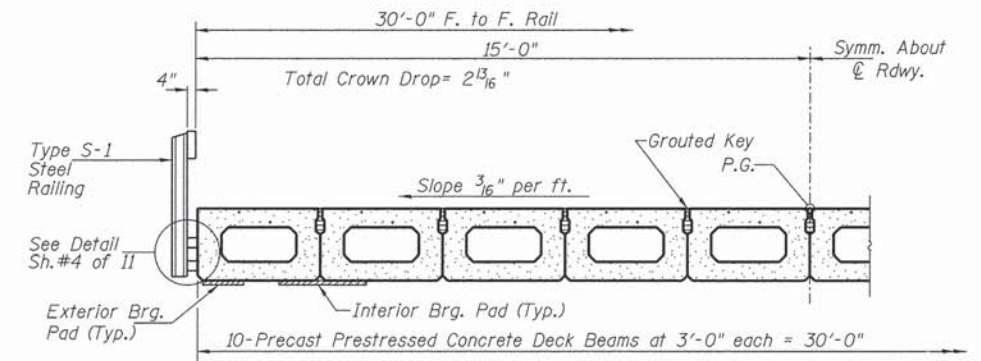
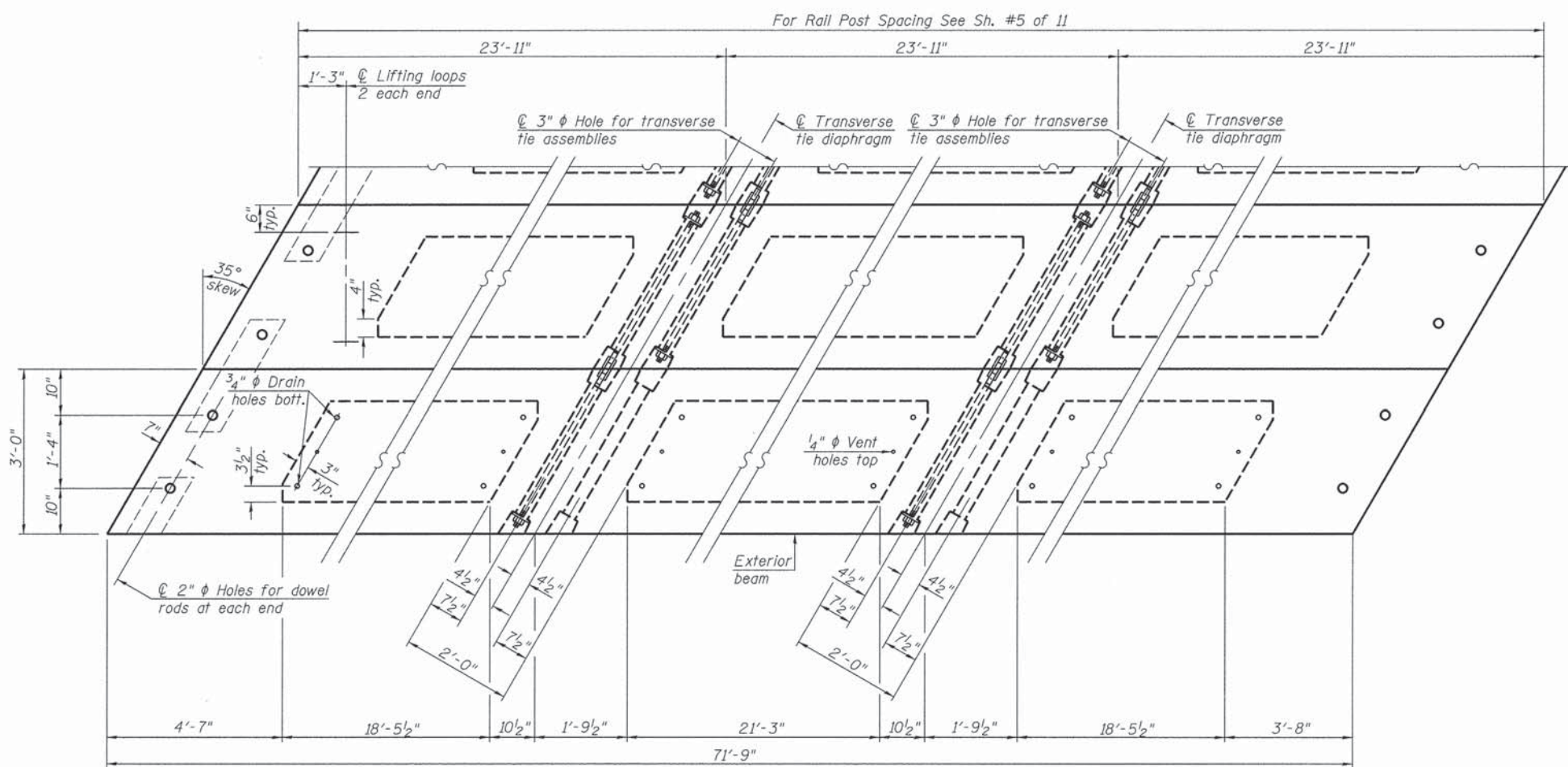
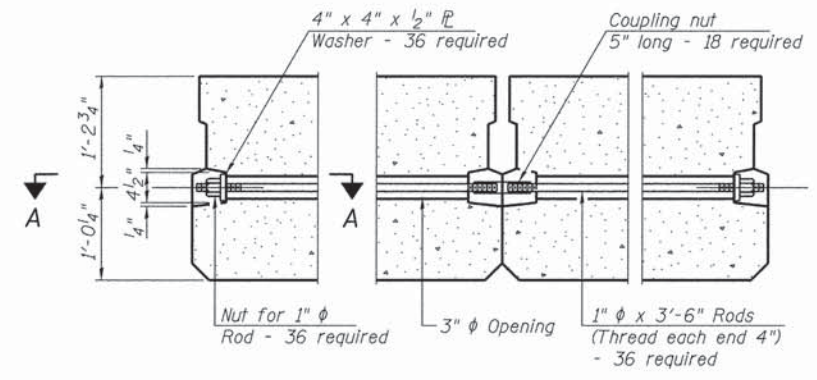
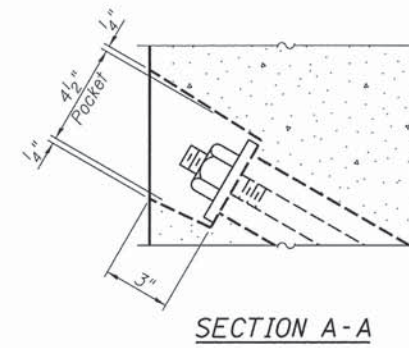
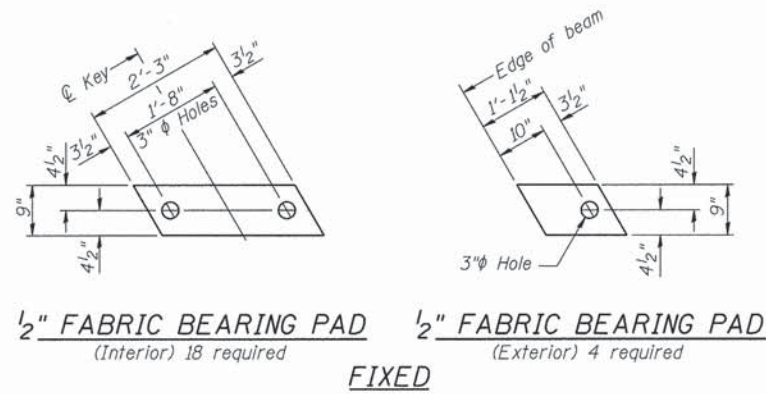


LOCATION SKETCH

**GENERAL PLAN & ELEVATION
IROQUOIS COUNTY
SECTION 11-00173-05-BR
C.H. 42 OVER PRAIRIE CREEK TRIBUTARY**

DESIGNED	S.T.M.
CHECKED	C.T.M./J.E.H.
DRAWN	S.T.M.
CHECKED	C.T.M./J.E.H.

SHEET NO. 1	ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
11 SHEETS	CH 42	11-00173-05-BR	IROQUOIS	44	18
S.N. 038-3912			CONTRACT NO. 87555		
FED. ROAD DIST. NO. 7 ILLINOIS			FED. AID PROJECT BROS-0075(181)		



BILL OF MATERIAL

ITEM	UNIT	QUANTITY
① Precast Prestressed Concrete Deck Beams (27" Depth)	SQ FT	2,153
① See Special Provisions		

NOTES

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

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

Reinforcement bars shall conform to ASTM A 706, Grade 60.

Two 1/8" fabric adjusting shims of the dimensions of the exterior bearing pad shall be provided for each bearing pad location.

A minimum 2 1/2" diameter lifting pin shall be used to engage the lifting loops during handling.

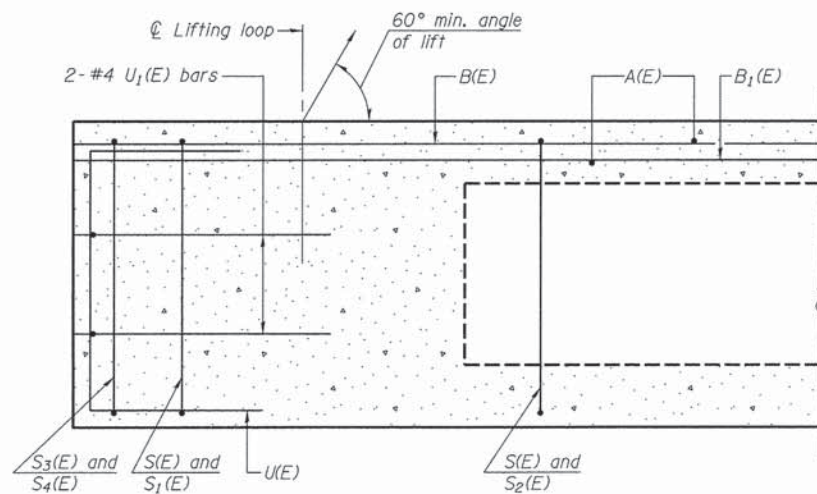
Corrosion Inhibitor, per Article 1020.05(b)(10) and 1021.07 of the Standard Specifications, shall be used in the concrete for precast prestressed concrete deck beams.

Compressive strength of prestressed concrete, f'c, shall be 6000 psi.

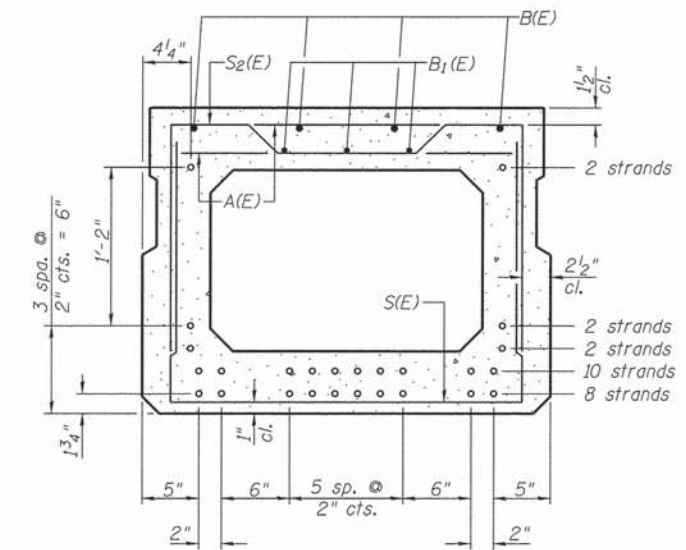
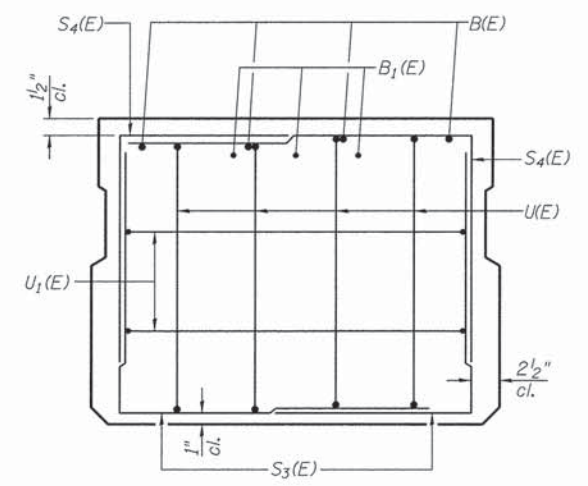
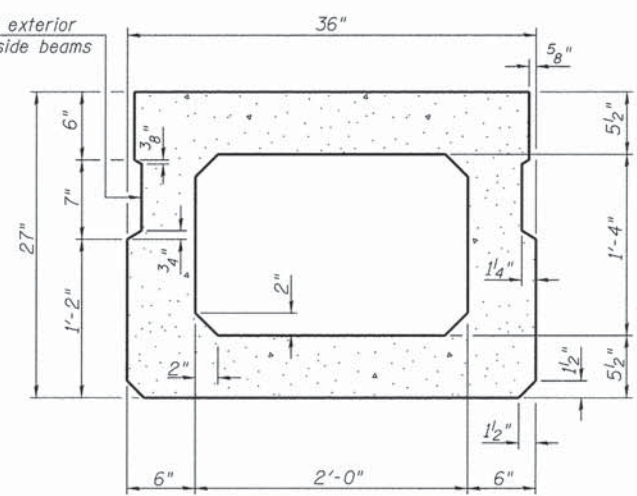
Compressive strength of prestressed concrete at release, f'ci, shall be 5000 psi.

SUPERSTRUCTURE
IROQUOIS COUNTY
SECTION 11-00173-05-BR
C.H. 42 OVER PRAIRIE CREEK TRIBUTARY

SHEET NO. 2	ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	CH 42	11-00173-05-BR	IROQUOIS	44	19
11 SHEETS	S.N. 038-3912		CONTRACT NO. 87555		
FED. ROAD DIST. NO. 7 ILLINOIS			FED. AID PROJECT BROS-0075(181)		



**Omit key on exterior face of outside beams



SECTION C-C

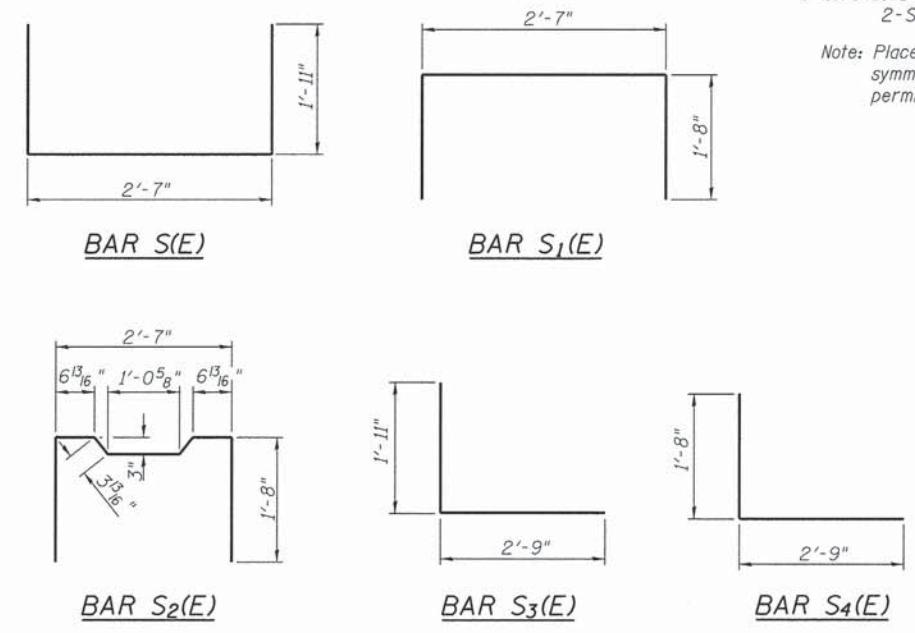
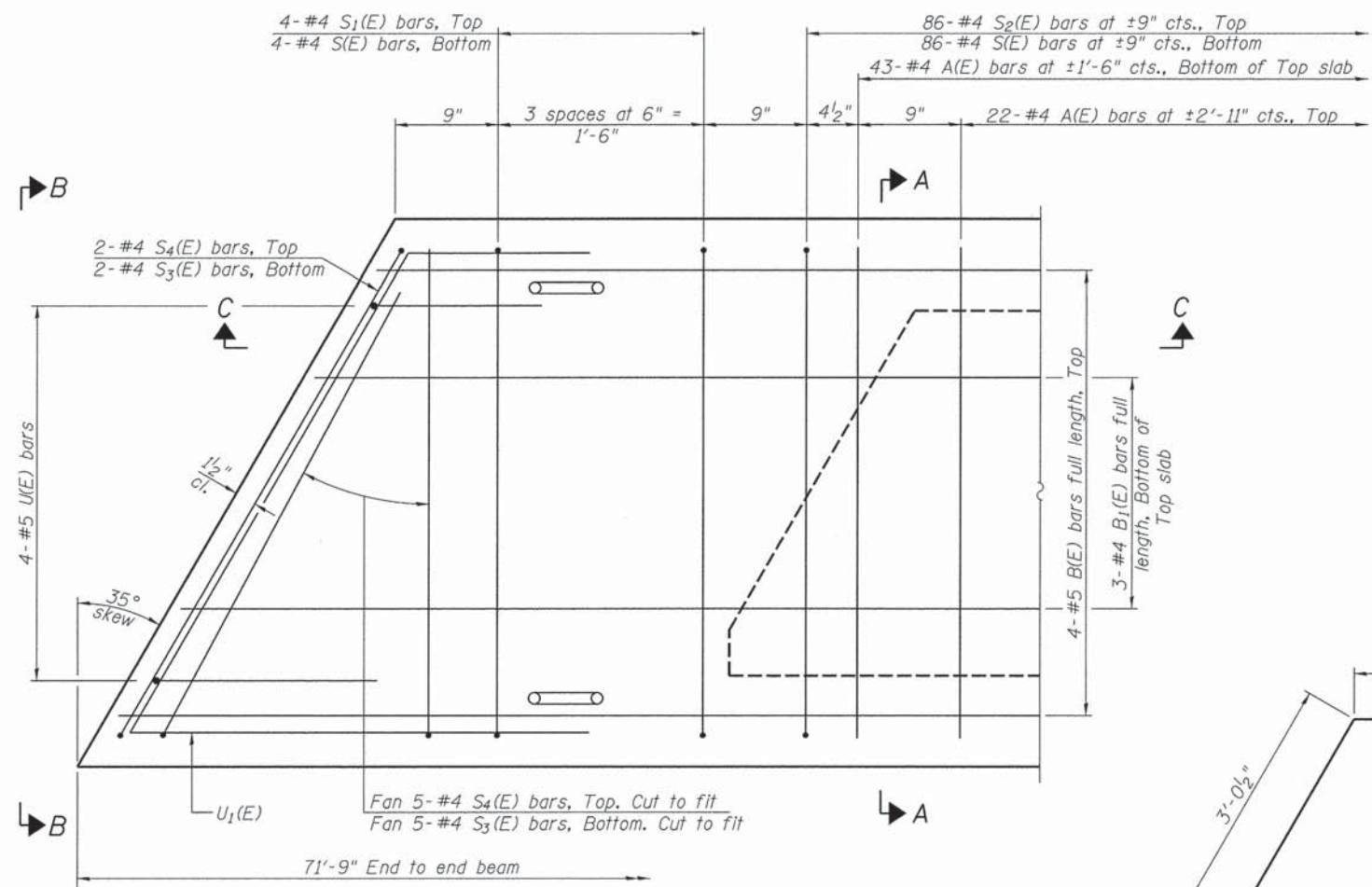
**Rail post anchor devices (Sheet 4 of 11) to be cast into exterior face of outside beams.

SECTION A-A (Showing Dimensions)

VIEW B-B

SECTION A-A

24-1/2" Strands Each Strand Stressed to 30,900 Lbs.
 8-Strands 1 3/4" up, 10-Strands 3 3/4" up, 2-Strands 5 3/4" up
 2-Strands 7 3/4" up, 2-Strands 1'-9 3/4" up
 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)	65	#4	2'-7"	—
B(E)	4	#5	*71'-6"	—
B1(E)	3	#4	*71'-6"	—
S(E)	94	#4	6'-5"	—
S1(E)	8	#4	5'-11"	┌┐
S2(E)	86	#4	6'-2"	┌┐
S3(E)	14	#4	4'-8"	┌┐
S4(E)	14	#4	4'-5"	┌┐
U(E)	8	#5	4'-6"	┌┐
U1(E)	4	#4	7'-4"	┌┐

Note: See sheet 2 of 11 for additional details and Bill of Material.

* Total Length, Lap as necessary

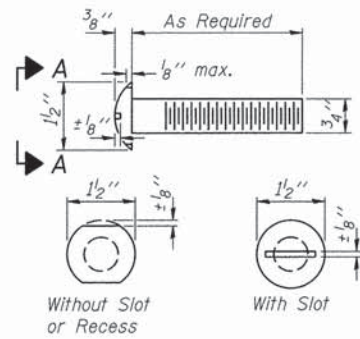
MIN. BAR LAP

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

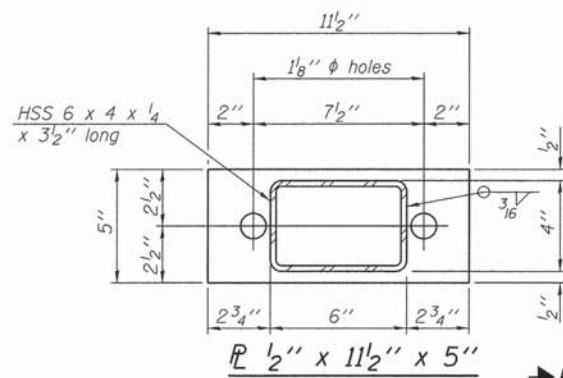
SUPERSTRUCTURE DETAILS
 IROQUOIS COUNTY
 SECTION 11-00173-05-BR
 C.H. 42 OVER PRAIRIE CREEK TRIBUTARY

SHEET NO. 3 11 SHEETS	ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	CH 42	11-00173-05-BR	IROQUOIS	44	20
	S.N. 038-3912		CONTRACT NO. 87555		
FED. ROAD DIST. NO. 7 ILLINOIS		FED. AID PROJECT BROS-0075(181)			

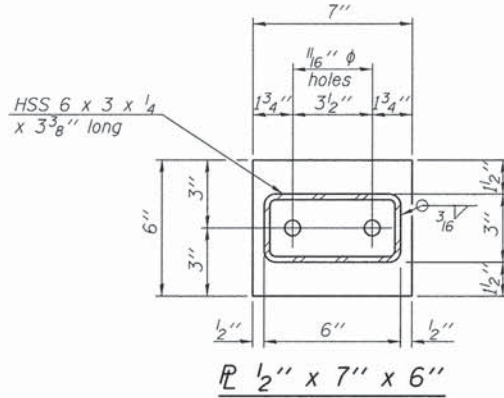
FOR RAIL POST SPACING SEE SH.#5 OF 11



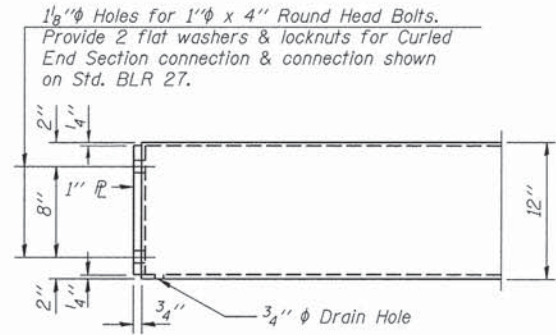
VIEW A-A
ROUND HEAD BOLT



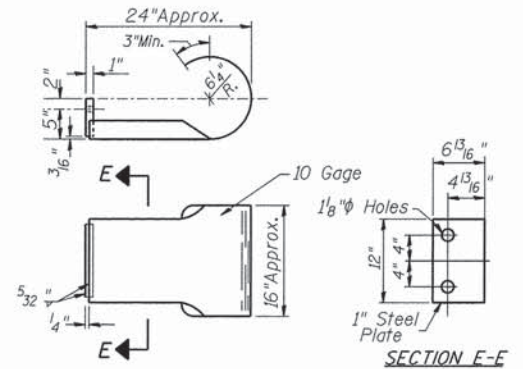
SECTION B-B
P 1/2" x 11 1/2" x 5"



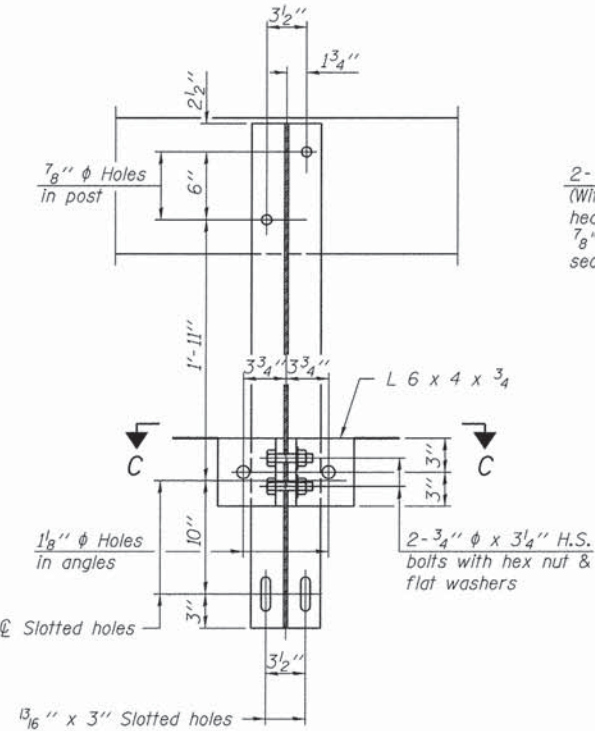
SECTION C-C
P 1/2" x 7" x 6"



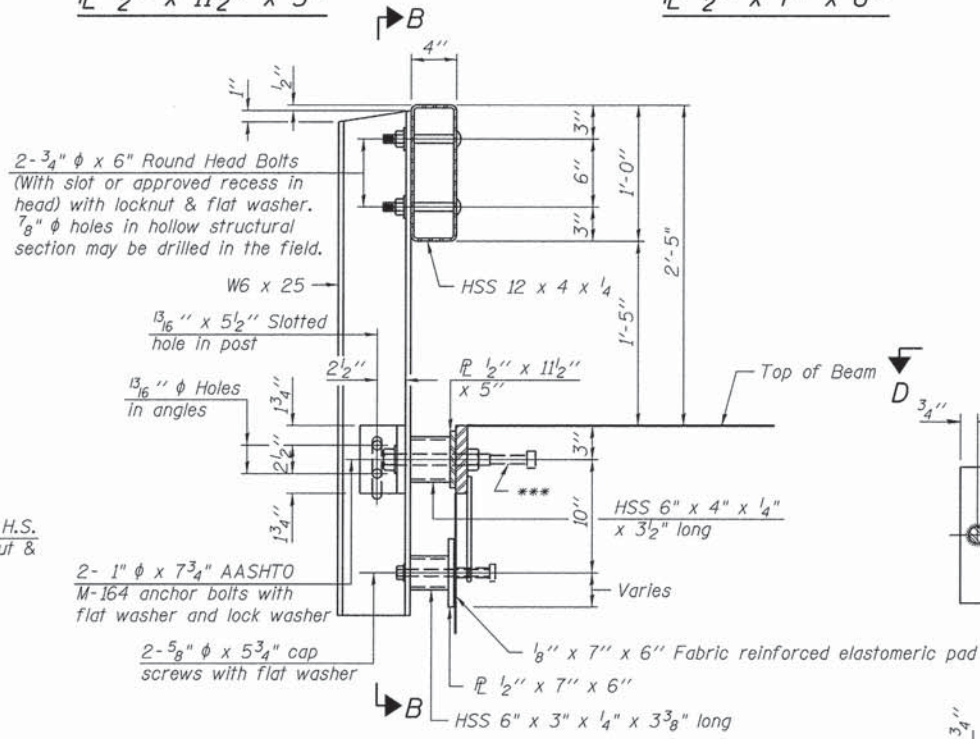
END OF RAIL DETAILS



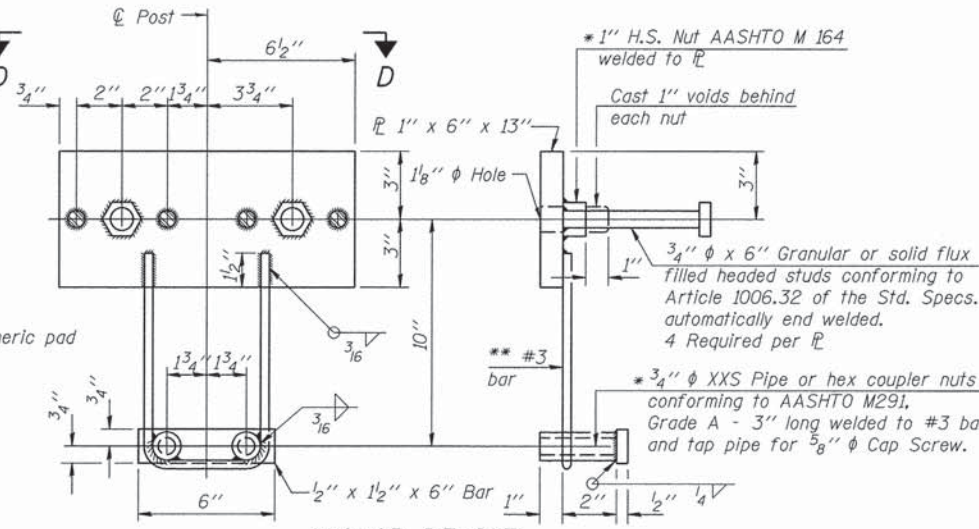
SECTION E-E
CURLED END SECTION
(2 Req'd) Cost Included with Steel Railing, Type S-1.
Terminal Markers - Direct Applied shall be placed on end of each Curled End Section (N.E. & S.W. Corners)



SECTION B-B

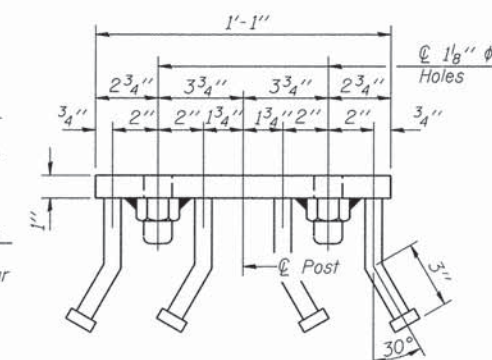


SECTION AT RAILING POST



ANCHOR DEVICE

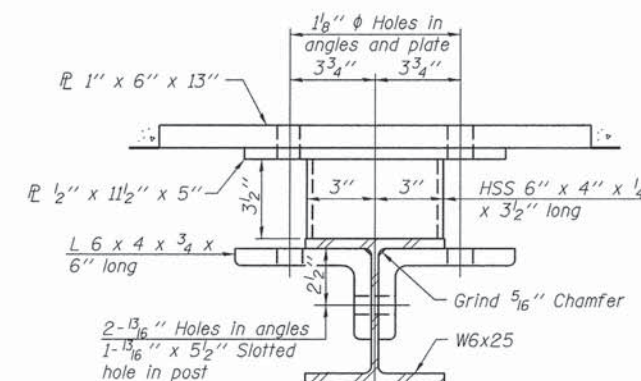
* Threaded areas shall be plugged or blocked off during casting of beam.



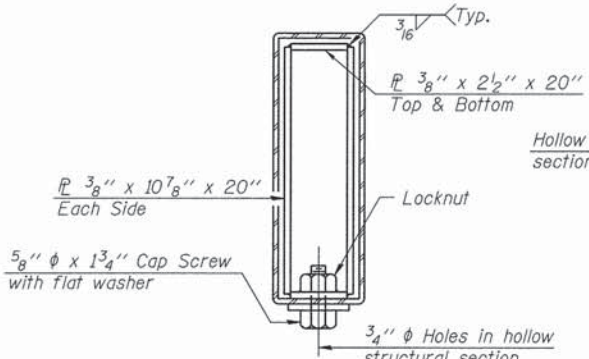
VIEW D-D

NOTES

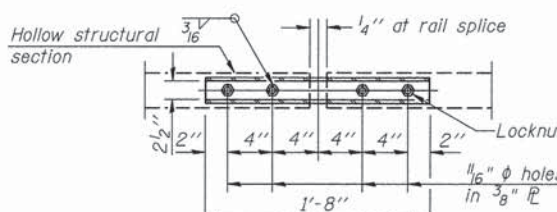
All field drilled holes shall be coated with an approved zinc rich paint before erection. For multi-span bridges, sufficient 1/4" x 6" x 1'-2" galvanized steel shims shall be provided to align rail between adjacent spans. Cost included with Steel Railing, Type S-1. All steel rail elements shall be galvanized according to Article 509.05 of the Standard Specifications. *** The studs of the anchor devices shall be placed below the top reinforcement bars and the outermost longitudinal reinforcement bar shall be placed directly above the studs of the rail post anchor device.



SECTION C-C



SECTIONS AT RAIL SPLICE



PLAN-BOTT. SPLICE TYPICAL

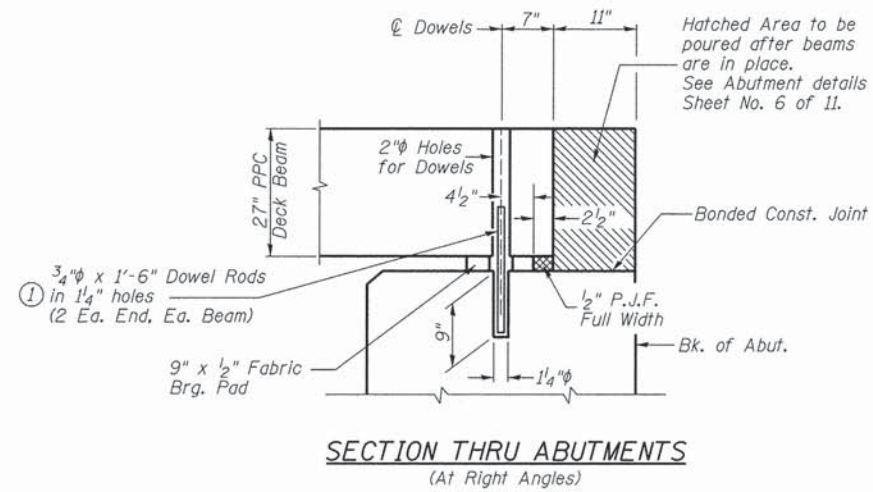
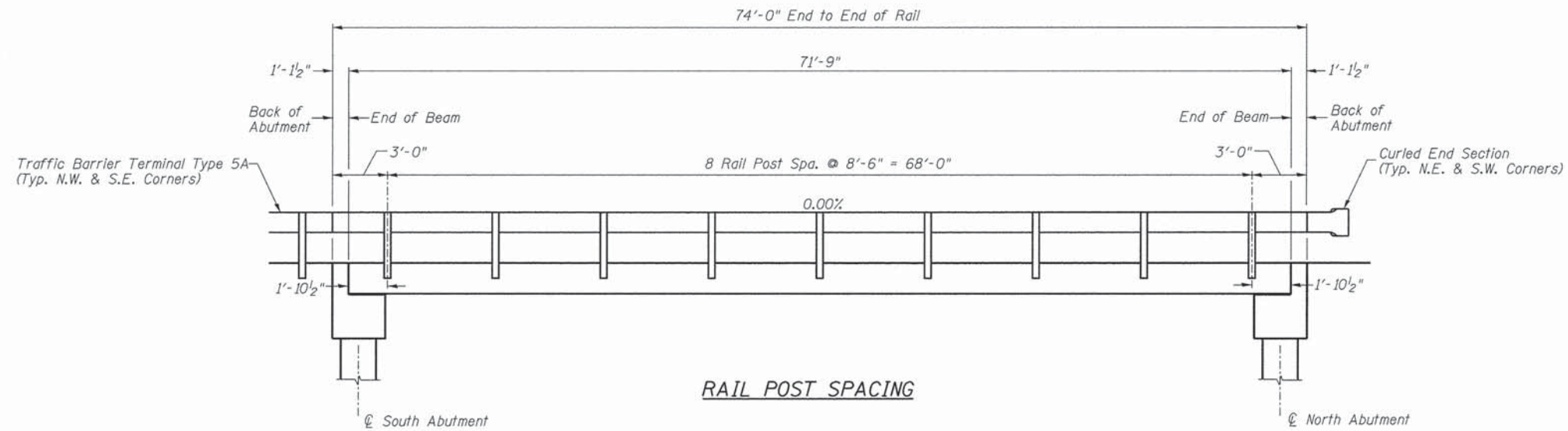
** Whenever the lower insert assemblies interfere with strand locations, the #3 bars shall be cut and adjusted in order to allow raising or lowering of the lower inserts. Maximum adjustment not to exceed 1/2".

BILL OF MATERIAL

ITEM	UNIT	QUANTITY
Steel Railing, Type S-1	FOOT	148

STEEL RAILING, TYPE S-1
IROQUOIS COUNTY
SECTION 11-00173-05-BR
C.H. 42 OVER PRAIRIE CREEK TRIBUTARY

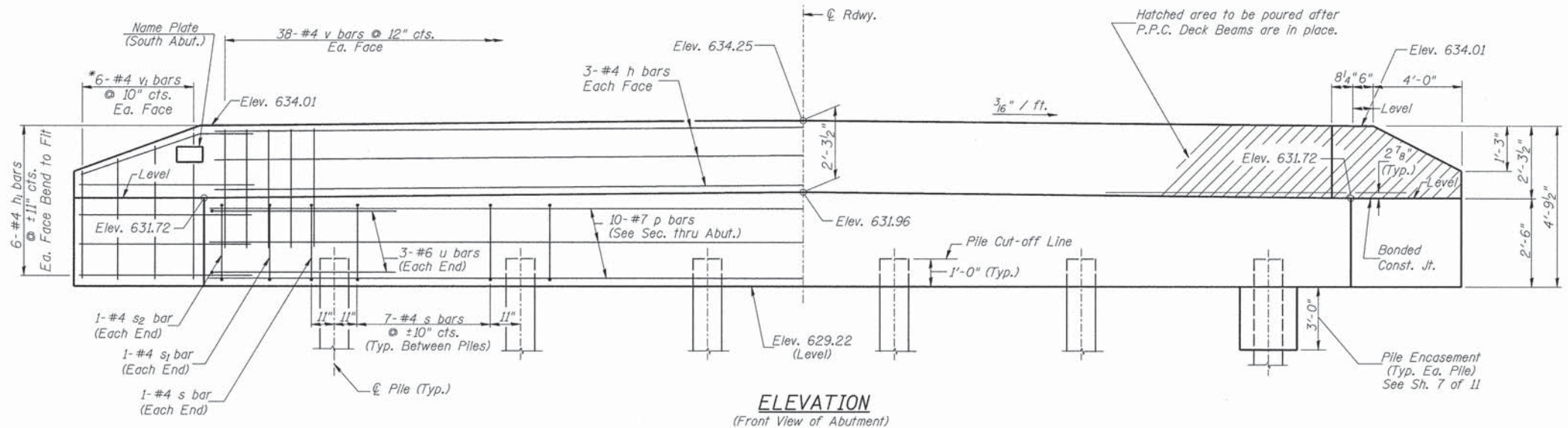
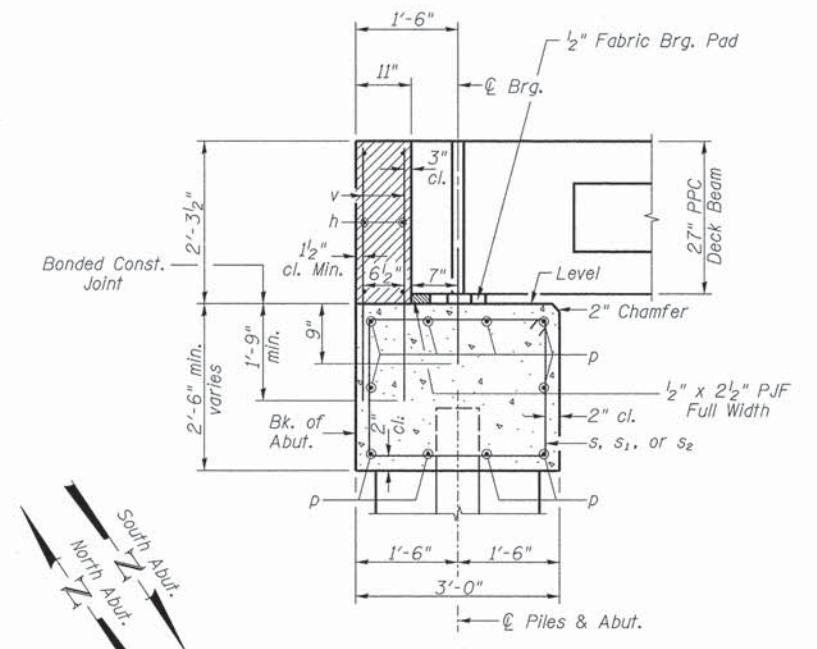
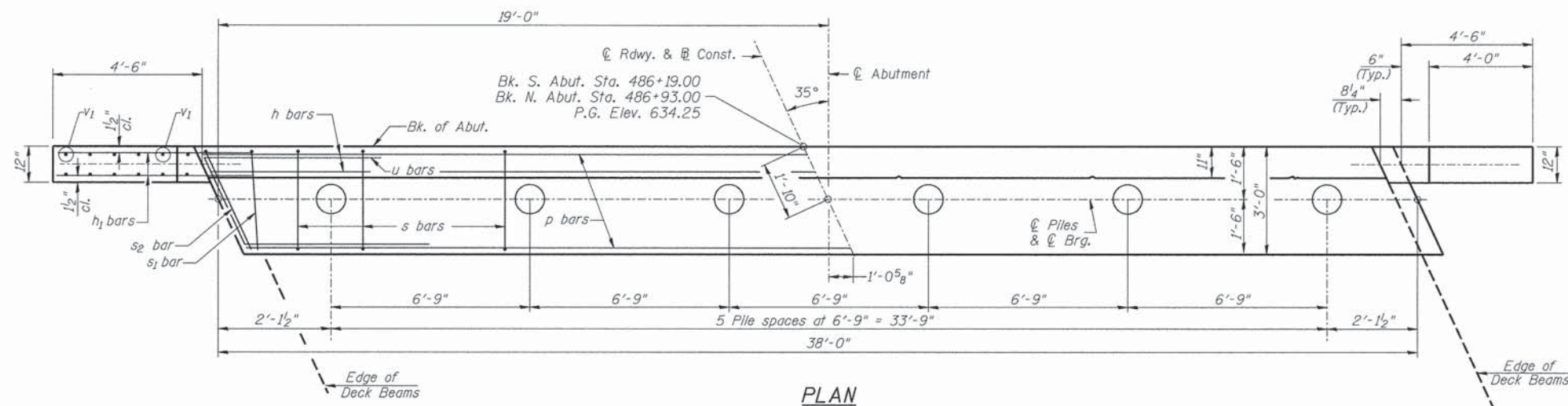
SHEET NO. 4	ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
11 SHEETS	CH 42	11-00173-05-BR	IROQUOIS	44	21
		S.N. 038-3912	CONTRACT NO. 87555		
	FED. ROAD DIST. NO. 7	ILLINOIS	FED. AID PROJECT BR05-0075(181)		



① Dowel Rods to be grouted after beams are in place and allowed to cure (Min. 24 hr.) prior to grouting the shear keys.

**RAIL POST SPACING AND
SUPERSTRUCTURE DETAILS
IROQUOIS COUNTY
SECTION 11-00173-05-BR
C.H. 42 OVER PRAIRIE CREEK TRIBUTARY**

SHEET NO. 5 11 SHEETS	ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	CH 42	11-00173-05-BR	IROQUOIS	44	22
S.N. 038-3912			CONTRACT NO. 87555		
FED. ROAD DIST. NO. 7		ILLINOIS	FED. AID PROJECT BROS-0075(181)		



TWO ABUTMENTS BILL OF MATERIAL

BAR	NO.	SIZE	LENGTH	SHAPE
h	12	#4	37'-9"	—
h1	48	#4	6'-6"	—
p	20	#7	37'-9"	—
s	74	#4	10'-5"	□
s1	4	#4	7'-10"	□
s2	4	#4	8'-8"	□
u	12	#6	12'-2"	∩
v	152	#4	4'-0"	—
y1	24	#4	7'-9"	—
Concrete Structures			CU YD	30.5
Reinforcement Bars			POUND	3,360
Structure Excavation			CU YD	85
Name Plates			EACH	1
Furnishing Metal Shell Piles 12"x0.250"			FOOT	410
Driving Piles			FOOT	410
Test Pile Metal Shells			EACH	2
Concrete Encasement			CU YD	3.1

① See Special Provisions

DESIGN STRESSES
 $f'c = 3,500$ p.s.i.
 $fy = 60,000$ p.s.i.

NOTES

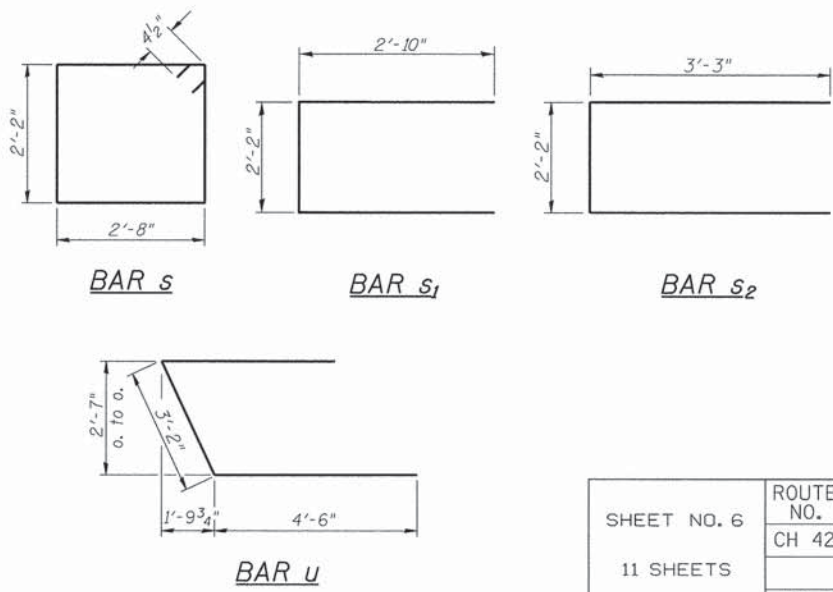
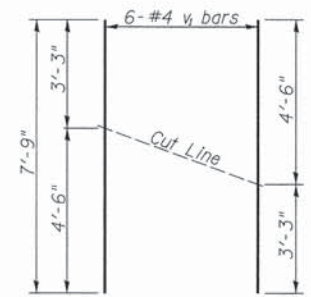
- The Backwall and the portion of the Wingwalls above the bonded construction joint shall be cast against the in-place beam.
- Reinforcement bars shall conform to ASTM A706 Grade 60.

PILE DATA

Type & Size: Metal Shell 12"x0.250" walls
 Nominal Required Bearing: 235 kips
 Factored Resistance Available: 130 kips
 Est. Length: 41' North Abutment
 41' South Abutment
 No. Req'd.: 12 (Includes 1 Test Pile at Each Abut.)

BAR CUTTING DIAGRAM

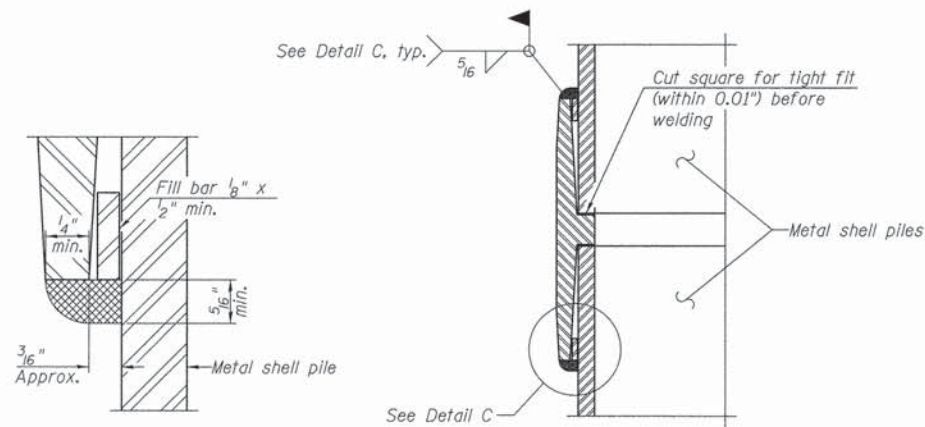
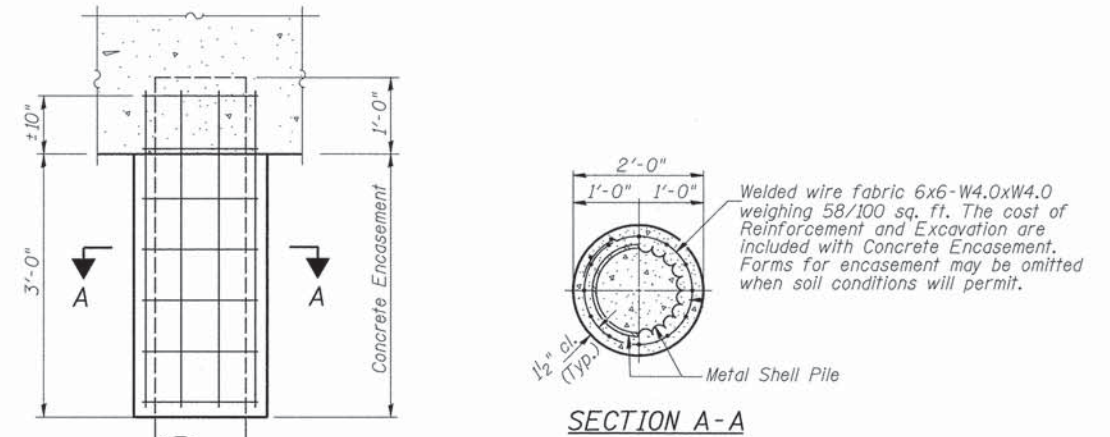
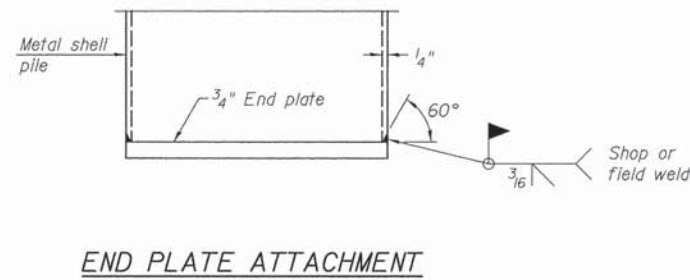
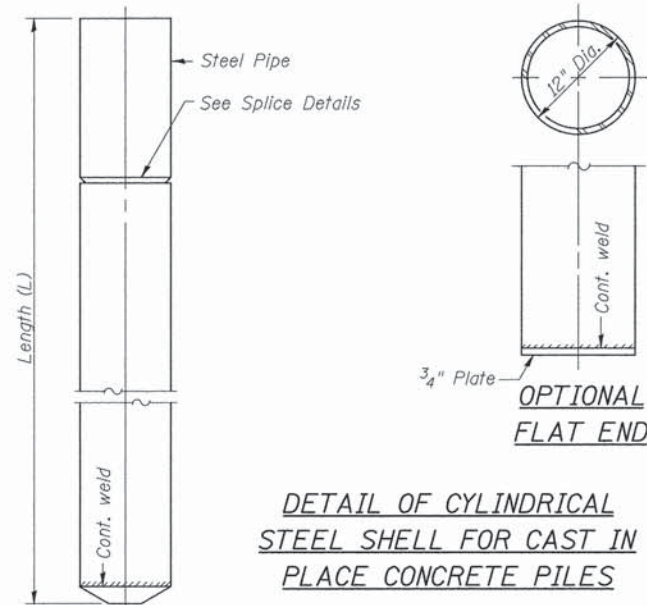
*Order v1 bars full length. Cut as shown and use remainder of bars in opposite face.



ABUTMENTS IROQUOIS COUNTY SECTION 11-00173-05-BR C.H. 42 OVER PRAIRIE CREEK TRIBUTARY

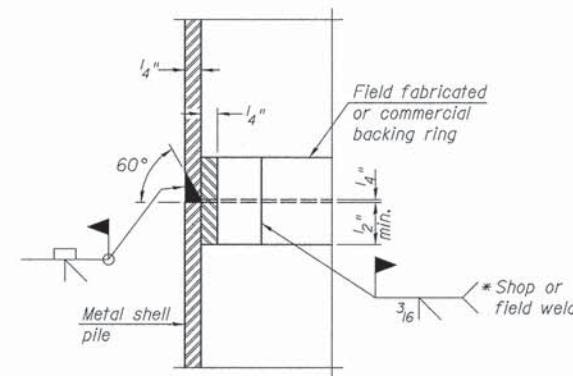
SHEET NO. 6 11 SHEETS	ROUTE NO. CH 42	SECTION 11-00173-05-BR	COUNTY IROQUOIS	TOTAL SHEETS 44	SHEET NO. 23
	S.N. 038-3912		CONTRACT NO. 87555		
FED. ROAD DIST. NO. 7 ILLINOIS			FED. AID PROJECT BROS-0075(181)		

Notes: Driving and bearing ends of pipe shall be cut square. The thickness of the shell shall be 0.25 inches with a tolerance of 5%. The shell shall be according to Article 1006.05(a) of the Standard Specifications, and shall be ASTM A252 Grade 3.

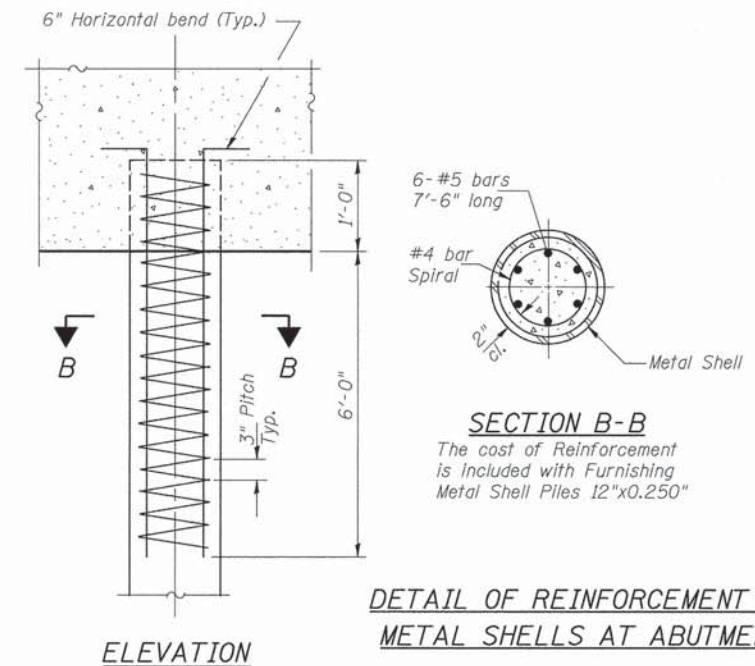


WELDED COMMERCIAL SPLICE

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



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



**METAL SHELL PILES
IROQUOIS COUNTY
SECTION 11-00173-05-BR
C.H. 42 OVER PRAIRIE CREEK TRIBUTARY**

SHEET NO. 7	ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
11 SHEETS	CH 42	11-00173-05-BR	IROQUOIS	44	24
S.N. 038-3912			CONTRACT NO. 87555		
FED. ROAD DIST. NO. 7 ILLINOIS			FED. AID PROJECT BRS-0075(181)		

Midwest Testing Services, Inc.
3705 Progress Blvd.
Peru, IL 61354

BORING LOG
Sheet 1 of 4

Phone: 815-223-6696
Fax: 815-223-6659
e-mail: mts37@comcast.net

Client: Hutchison Engineering, Inc.
Project Name: Section 11-00173-05-BR C.H. 42
Project Site: Prairie Creek Tributary
Iroquois County, IL.

Boring No. B-1
Surface Elev. 632.1
Auger Depth 71' Rotary Depth NA
Start Date 11/22/13 Finish Date 11/22/13

Location: 10' Right of Station 486+14

(DEPTH) ELEV.	DESCRIPTION OF MATERIALS	Graphic Log	Depth in feet	SAMPLES						DRILLED BY	REMARKS
				Sample No.	Sample Type	Qu (TSF)	N Value (Blows)	Bulge / Shear	Moisture (%)		
632.10										Randy Safranski Diedrich D-120	
631.10			1								
630.10	Stiff Black And Brown Clay (Fill)		2								
629.10			3	1	SS	1.7	8	B	21		
628.10			4								
627.10			5	2	SS	1.5	7	B	25		
626.10			6								
625.10	Stiff Brownish Gray Clay		7								
624.10			8	3	SS	1.6	8	B	23		
623.10			9								
622.10			10	4	SS	1.8	9	B	24		
621.10	Stiff Brownish Gray Clay Till		11								
620.10			12								
619.10			13	5	SS	2.0	12	B	23		
618.10			14								
617.10			15	6	SS	2.7	15	B	22		
616.10	Very Stiff Brownish Gray Clay Till		16								
615.10			17								
614.10			18	7	SS	2.1	11	B	22		
613.10			19								
612.10	Stiff Gray Clay Till		20	8	SS	1.9	9	B	25		

Groundwater Data: No groundwater encountered after auger removal
Comments:

Midwest Testing Services, Inc.
3705 Progress Blvd.
Peru, IL 61354

BORING LOG
Sheet 2 of 4

Phone: 815-223-6696
Fax: 815-223-6659
e-mail: mts37@comcast.net

Client: Hutchison Engineering, Inc.
Project Name: Section 11-00173-05-BR C.H. 42
Project Site: Prairie Creek Tributary
Iroquois County, IL.

Boring No. B-1
Surface Elev. 632.1
Auger Depth 71' Rotary Depth NA
Start Date 11/22/13 Finish Date 11/22/13

Location: 10' Right of Station 486+14

(DEPTH) ELEV.	DESCRIPTION OF MATERIALS	Graphic Log	Depth in feet	SAMPLES						DRILLED BY	REMARKS
				Sample No.	Sample Type	Qu (TSF)	N Value (Blows)	Bulge / Shear	Moisture (%)		
611.10										Randy Safranski Diedrich D-120	
610.10			22								
609.10			23	9	SS	1.8	10	B	24		
608.10	Stiff Gray Clay Till		24								
607.10			25								
606.10			26	10	SS	1.8	12	B	25		
605.10			27								
604.10			28	11	SS	2.0	12	B	24		
603.10			29								
602.10			30	12	SS	2.3	14	B	24		
601.10			31								
600.10	Very Stiff Gray Clay Till		32								
599.10			33								
598.10			34								
597.10			35								
596.10			36	13	SS	2.5	14	B	24		
595.10			37								
594.10			38								
593.10			39								
592.10			40								
591.10			41	14	SS	2.6	15	B	23		

Groundwater Data: No groundwater encountered after auger removal
Comments:

BORING LOGS
IROQUOIS COUNTY
SECTION 11-00173-05-BR
C.H. 42 OVER PRAIRIE CREEK TRIBUTARY

SHEET NO. 8 11 SHEETS	ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	CH 42	11-00173-05-BR	IROQUOIS	44	25
	S.N. 038-3912		CONTRACT NO. 87555		
FED. ROAD DIST. NO. 7		ILLINOIS	FED. AID PROJECT BROS-0075(181)		

Midwest Testing Services, Inc.
3705 Progress Blvd.
Peru, IL 61354

BORING LOG
Sheet 3 of 4

Phone: 815-223-6696
Fax: 815-223-6659
e-mail: mts37@comcast.net

Client: Hutchison Engineering, Inc.
Project Name: Section 11-00173-05-BR C.H. 42
Project Site: Prairie Creek Tributary
Iroquois County, IL.

Boring No. B-1
Surface Elev. 632.1
Auger Depth 71' Rotary Depth NA
Start Date 11/22/13 Finish Date 11/22/13

Location: 10' Right of Station 486+14

(DEPTH) ELEV.	DESCRIPTION OF MATERIALS	Graphic Log	Depth in feet	SAMPLES						DRILLED BY	REMARKS
				Sample No.	Sample Type	Qu (TSF)	N Value (Blows)	Bulge / Shear	Moisture (%)		
590.10										Randy Safranski Diedrich D-120	
589.10			43								
588.10			44								
587.10			45	15	SS	2.3	14	B	26		
586.10			46								
585.10			47								
584.10			48								
583.10			49								
582.10	Very Stiff Gray Clay Till		50	16	SS	2.2	13	B	25		
581.10			51								
580.10			52								
579.10			53								
578.10			54								
577.10			55	17	SS	2.6	15	B	23		
576.10			56								
575.10			57								
574.10			58								
573.10			59								
572.10			60	18	SS	3.4	18	B	18		
571.10	Very Stiff Gray Silty Loam Till		61								
570.10			62								

Groundwater Data: No groundwater encountered after auger removal
Comments:

Midwest Testing Services, Inc.
3705 Progress Blvd.
Peru, IL 61354

BORING LOG
Sheet 4 of 4

Phone: 815-223-6696
Fax: 815-223-6659
e-mail: mts37@comcast.net

Client: Hutchison Engineering, Inc.
Project Name: Section 11-00173-05-BR C.H. 42
Project Site: Prairie Creek Tributary
Iroquois County, IL.

Boring No. B-1
Surface Elev. 632.1
Auger Depth 71' Rotary Depth NA
Start Date 11/22/13 Finish Date 11/22/13

Location: 10' Right of Station 486+14

(DEPTH) ELEV.	DESCRIPTION OF MATERIALS	Graphic Log	Depth in feet	SAMPLES						DRILLED BY	REMARKS
				Sample No.	Sample Type	Qu (TSF)	N Value (Blows)	Bulge / Shear	Moisture (%)		
569.10										Randy Safranski Diedrich D-120	
568.10			64								
567.10			65	19	SS	3.3	27	S	14		
566.10			66								
565.10	Very Stiff Gray Silty Loam Till		67								
564.10			68								
563.10			69								
562.10			70	20	SS	3.8	35	S	12		
561.10			71								
560.10	Boring Terminated		72								
559.10			73								
558.10			74								
557.10			75								
556.10			76								
555.10			77								
554.10			78								
553.10			79								
552.10			80								
551.10			81								
550.10			82								
549.10			83								

Groundwater Data: No groundwater encountered after auger removal
Comments:

BORING LOGS
IROQUOIS COUNTY
SECTION 11-00173-05-BR
C.H. 42 OVER PRAIRIE CREEK TRIBUTARY

SHEET NO. 9 11 SHEETS	ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	CH 42	11-00173-05-BR	IROQUOIS	44	26
S.N. 038-3912			CONTRACT NO. 87555		
FED. ROAD DIST. NO. 7		ILLINOIS	FED. AID PROJECT BROS-0075(181)		

Midwest Testing Services, Inc.
3705 Progress Blvd.
Peru, IL 61354

BORING LOG
Sheet 1 of 4

Phone: 815-223-6696
Fax: 815-223-6659
e-mail: mts37@comcast.net

Client: Hutchison Engineering, Inc.
Project Name: Section 11-00173-05-BR C.H. 42
Project Site: Prairie Creek Tributary
Iroquois County, IL.

Boring No. B-2
Surface Elev. 632.4
Auger Depth 71' Rotary Depth NA
Start Date 11/22/13 Finish Date 11/22/13

Location: 10' Left of Station 486+98

(DEPTH) ELEV.	DESCRIPTION OF MATERIALS	Graphic Log	Depth in feet	SAMPLES						DRILLED BY	REMARKS
				Sample No.	Sample Type	Qu (TSF)	N Value (Blows)	Bulge / Shear	Moisture (%)		
632.40										Randy Safranski Diedrich D-120	
631.40			1								
630.40	Stiff Black And Brown Clay (Fill)		2								
629.40			3	1	SS	1.8	10	B	21		
628.40			4								
627.40	Stiff Black Clay		5								
626.40			6	2	SS	1.2	6	B	25		
625.40	Stiff Brownish Gray Clay Till		7								
624.40			8	3	SS	1.8	10	B	26		
623.40	Very Stiff Brownish Gray Clay Till		9								
622.40			10	4	SS	2.3	13	B	22		
621.40			11								
620.40			12								
619.40			13	5	SS	2.5	14	B	23		
618.40			14								
617.40			15								
616.40			16	6	SS	2.4	14	B	23		
615.40	Stiff Gray Clay Till		17								
614.40			18	7	SS	1.9	10	B	25		
613.40			19								
612.40			20	8	SS	1.3	8	B	26		

Groundwater Data: No groundwater encountered after auger removal
Comments:

Midwest Testing Services, Inc.
3705 Progress Blvd.
Peru, IL 61354

BORING LOG
Sheet 2 of 4

Phone: 815-223-6696
Fax: 815-223-6659
e-mail: mts37@comcast.net

Client: Hutchison Engineering, Inc.
Project Name: Section 11-00173-05-BR C.H. 42
Project Site: Prairie Creek Tributary
Iroquois County, IL.

Boring No. B-2
Surface Elev. 632.4
Auger Depth 71' Rotary Depth NA
Start Date 11/22/13 Finish Date 11/22/13

Location: 10' Left of Station 486+98

(DEPTH) ELEV.	DESCRIPTION OF MATERIALS	Graphic Log	Depth in feet	SAMPLES						DRILLED BY	REMARKS
				Sample No.	Sample Type	Qu (TSF)	N Value (Blows)	Bulge / Shear	Moisture (%)		
611.40										Randy Safranski Diedrich D-120	
610.40			22								
609.40			23	9	SS	1.6	8	B	26		
608.40	Stiff Gray Clay Till		24								
607.40			25								
606.40			26	10	SS	1.5	8	B	26		
605.40			27								
604.40			28	11	SS	1.9	9	B	26		
603.40			29								
602.40			30	12	SS	2.4	13	B	25		
601.40			31								
600.40			32								
599.40			33								
598.40	Very Stiff Gray Clay Till		34								
597.40			35								
596.40			36	13	SS	2.3	12	B	26		
595.40			37								
594.40			38								
593.40			39								
592.40			40								
591.40			41	14	SS	2.5	15	B	25		

Groundwater Data: No groundwater encountered after auger removal
Comments:

BORING LOGS
IROQUOIS COUNTY
SECTION 11-00173-05-BR
C.H. 42 OVER PRAIRIE CREEK TRIBUTARY

SHEET NO. 10 11 SHEETS	ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	CH 42	11-00173-05-BR	IROQUOIS	44	27
	S.N. 038-3912		CONTRACT NO. 87555		
FED. ROAD DIST. NO. 7		ILLINOIS	FED. AID PROJECT BRS-0075(181)		

Midwest Testing Services, Inc.
3705 Progress Blvd.
Peru, IL 61354

BORING LOG
Sheet 3 of 4

Phone: 815-223-6696
Fax: 815-223-6659
e-mail: mts37@comcast.net

Client: Hutchison Engineering, Inc.
Project Name: Section 11-00173-05-BR C.H. 42
Project Site: Prairie Creek Tributary
Iroquois County, IL.

Boring No. B-2
Surface Elev. 632.4
Auger Depth 71' Rotary Depth NA
Start Date 11/22/13 Finish Date 11/22/13

Location: 10' Left of Station 486+98

(DEPTH) ELEV.	DESCRIPTION OF MATERIALS	Graphic Log	Depth in feet	SAMPLES						DRILLED BY	REMARKS
				Sample No.	Sample Type	Qu (TSF)	N Value (Blows)	Bulge / Shear	Moisture (%)		
590.40										Randy Safranski Diedrich D-120	
589.40			43								
588.40			44								
587.40			45	15	SS	2.2	13	B	26		
586.40			46								
585.40			47								
584.40			48								
583.40			49								
582.40	Very Stiff Gray Clay Till		50	16	SS	2.2	22	B	24		
581.40			51								
580.40			52								
579.40			53								
578.40			54								
577.40			55	17	SS	2.5	14	B	23		
576.40			56								
575.40			57								
574.40			58								
573.40			59								
572.40	Very Stiff Gray Silty Loam Till		60	18	SS	3.0	22	S	16		
571.40			61								
570.40			62								

Groundwater Data: No groundwater encountered after auger removal
Comments:

Midwest Testing Services, Inc.
3705 Progress Blvd.
Peru, IL 61354

BORING LOG
Sheet 4 of 4

Phone: 815-223-6696
Fax: 815-223-6659
e-mail: mts37@comcast.net

Client: Hutchison Engineering, Inc.
Project Name: Section 11-00173-05-BR C.H. 42
Project Site: Prairie Creek Tributary
Iroquois County, IL.

Boring No. B-2
Surface Elev. 632.4
Auger Depth 71' Rotary Depth NA
Start Date 11/22/13 Finish Date 11/22/13

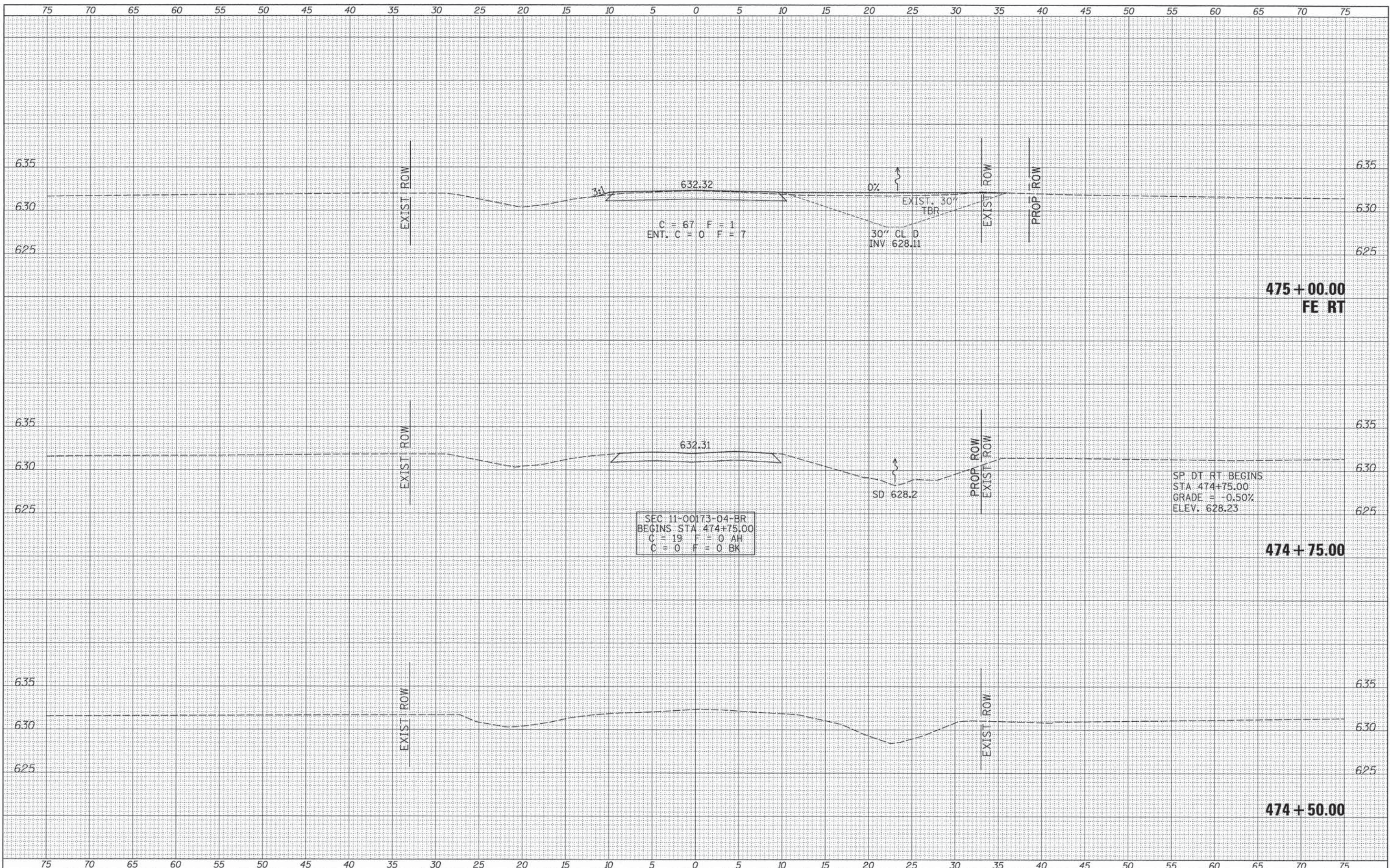
Location: 10' Left of Station 486+98

(DEPTH) ELEV.	DESCRIPTION OF MATERIALS	Graphic Log	Depth in feet	SAMPLES						DRILLED BY	REMARKS
				Sample No.	Sample Type	Qu (TSF)	N Value (Blows)	Bulge / Shear	Moisture (%)		
569.40										Randy Safranski Diedrich D-120	
568.40			64								
567.40	Very Stiff Gray Silty Loam Till		65	19	SS	2.8	25	S	15		
566.40			66								
565.40			67								
564.40			68								
563.40	Hard Gray Silty Loam Till		69								
562.40			70								
561.40			71	20	SS	4.3	41	S	11		
560.40	Boring Terminated		72								
559.40			73								
558.40			74								
557.40			75								
556.40			76								
555.40			77								
554.40			78								
553.40			79								
552.40			80								
551.40			81								
550.40			82								
549.40			83								

Groundwater Data: No groundwater encountered after auger removal
Comments:

BORING LOGS
IROQUOIS COUNTY
SECTION 11-00173-05-BR
C.H. 42 OVER PRAIRIE CREEK TRIBUTARY

SHEET NO. 11 11 SHEETS	ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	CH 42	11-00173-05-BR	IROQUOIS	44	28
	S.N. 038-3912		CONTRACT NO. 87555		
FED. ROAD DIST. NO. 7 ILLINOIS			FED. AID PROJECT BROS-0075(181)		



DATE	
BY	
FINISHED SURVEY	
PLOTTED	
NOTE BOOK	
AREAS CHECKED	

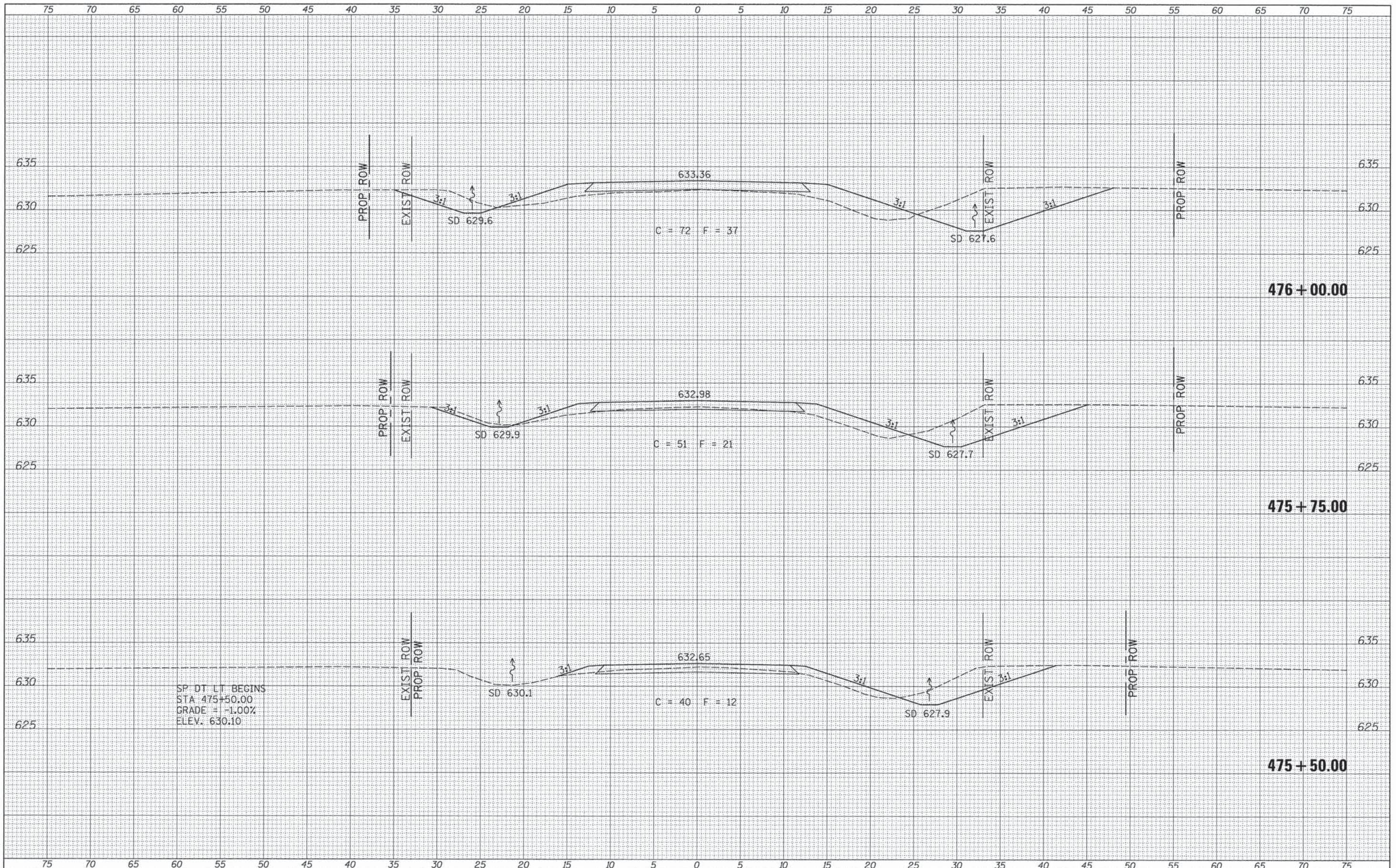
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BY	
ORIGINAL SURVEY	
PLOTTED	
NOTE BOOK	
AREAS CHECKED	

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W:\Bridges\3332-Iroquois\3332xshs.dgn		DRAWN -	REVISED -			CH 42	11-00173-04-BR & 11-00173-05-BR	IROQUOIS	44	29	
Default		CHECKED -	REVISED -			CONTRACT NO. 87555					
		DATE -	REVISED -			SCALE: 1"=5'		SHEET 1 OF 16 SHEETS		STA. 474+50.00 TO STA. 475+00.00	

FED. ROAD DIST. NO. 7 ILLINOIS FED. AID PROJECT BROS-0075(18)

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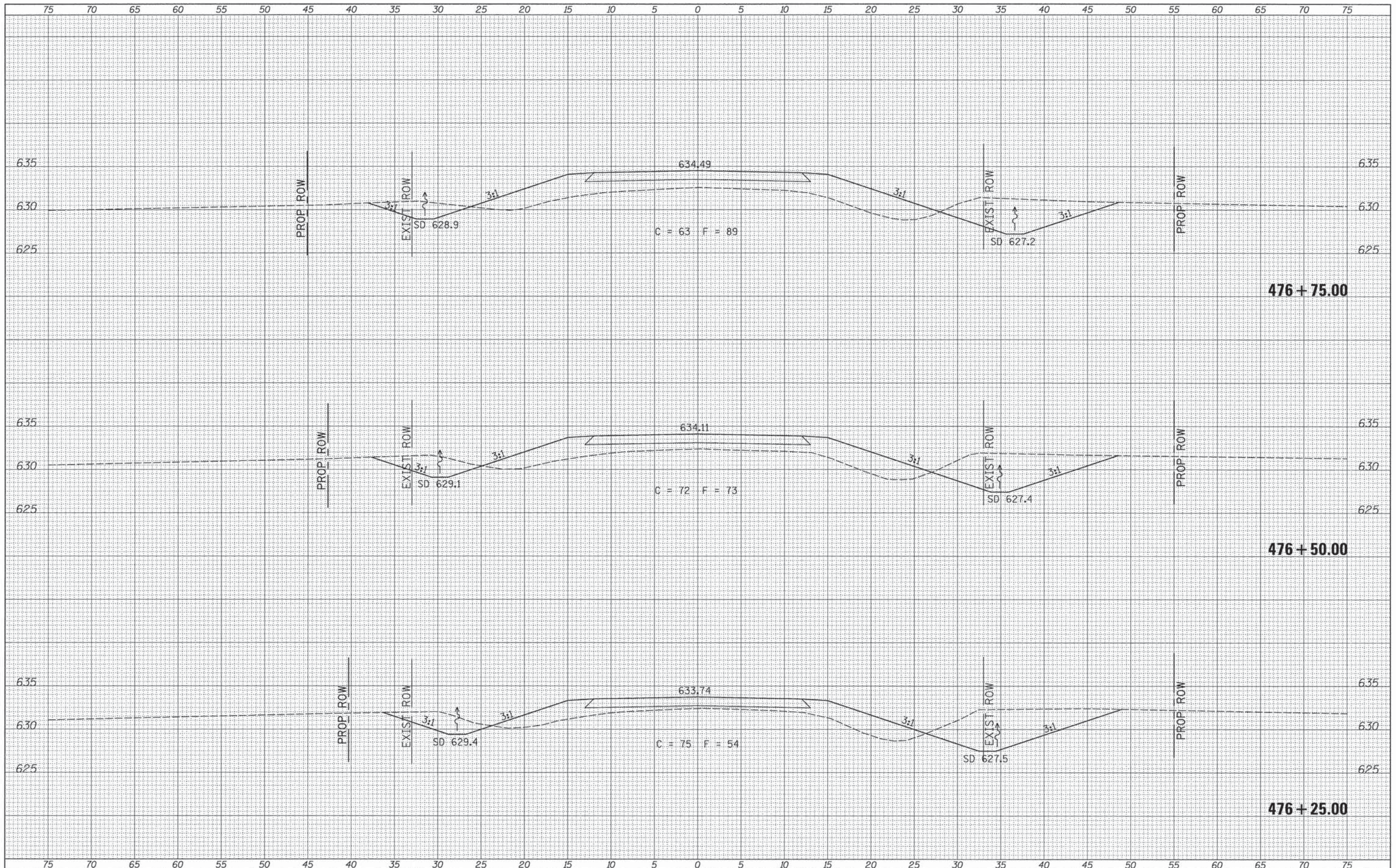
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W:\Bridge\3332-Iroquois\3332xshs.dgn		DRAWN -	REVISED -			CH 42	11-00173-04-BR & 11-00173-05-BR	IROQUOIS	44	30	
Default		CHECKED -	REVISED -			CONTRACT NO. 87555					
		DATE -	REVISED -			SCALE: 1"=5'		SHEET 2 OF 16 SHEETS		STA. 475+50.00 TO STA. 476+00.00	

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NOTE BOOK	PLOTTED
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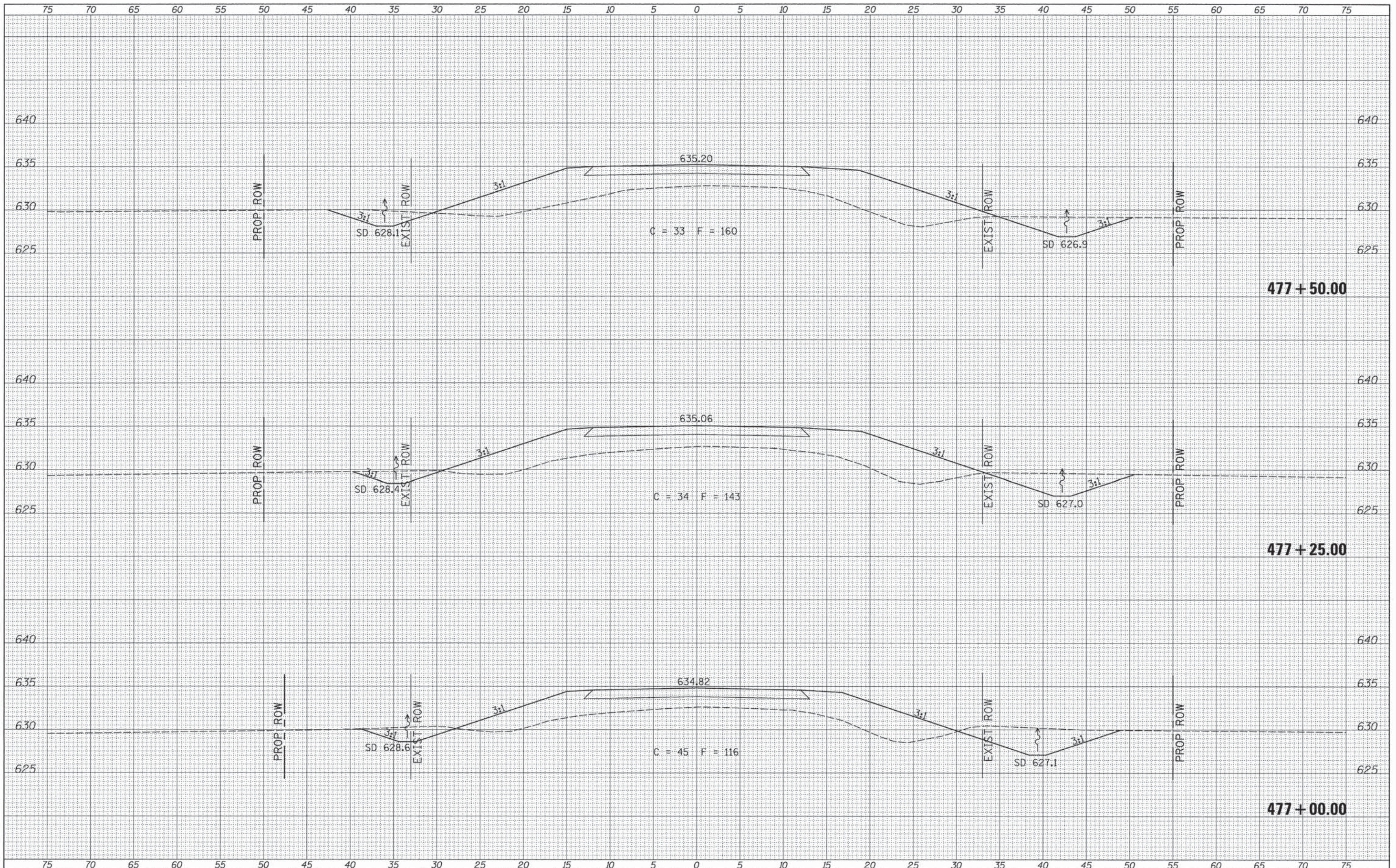
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V:\Bridge\3332-Iroquois\3332xahs.dgn		DRAWN -	REVISED -		CH 42	11-00173-04-BR & 11-00173-05-BR	IROQUOIS	44	31		
Default		CHECKED -	REVISED -		SCALE: 1"=5'	SHEET 3 OF 16 SHEETS	FED. ROAD DIST. NO. 7	ILLINOIS	FED. AID PROJECT BROS-0075(18D)		
		DATE -	REVISED -		STA. 476+25.00 TO STA. 476+75.00	CONTRACT NO. 87555					

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NOTE BOOK	PLOTTED
NO.	TEMPLATE
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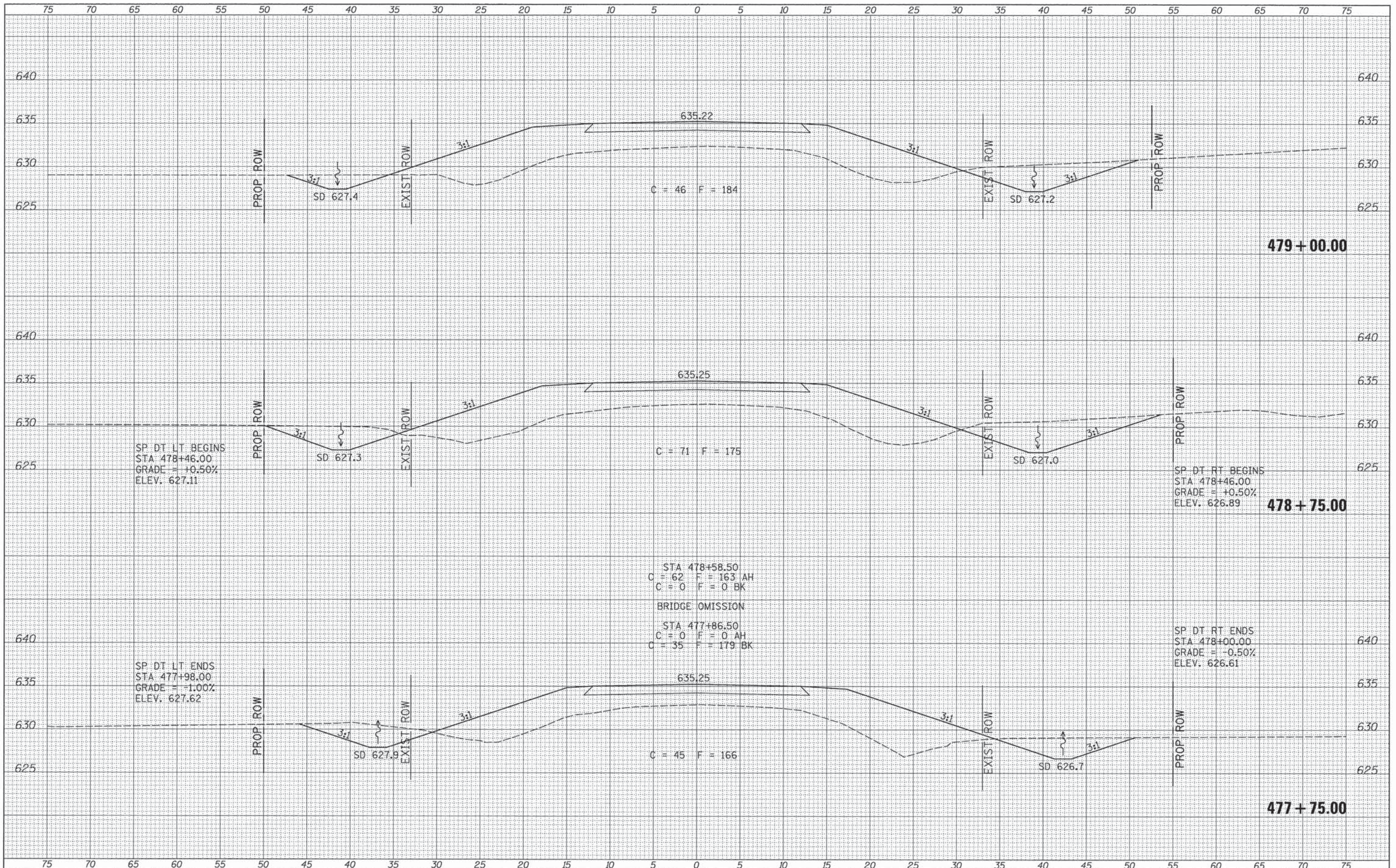
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Default	PLOT SCALE = 5,00000' / in.	DRAWN -	REVISED -			CH 42	11-00173-04-BR & 11-00173-05-BR	IROQUOIS	44	32	
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		DATE -	REVISED -					FED. ROAD DIST. NO. 7 ILLINOIS		FED. AID PROJECT BR05-0075(181)	

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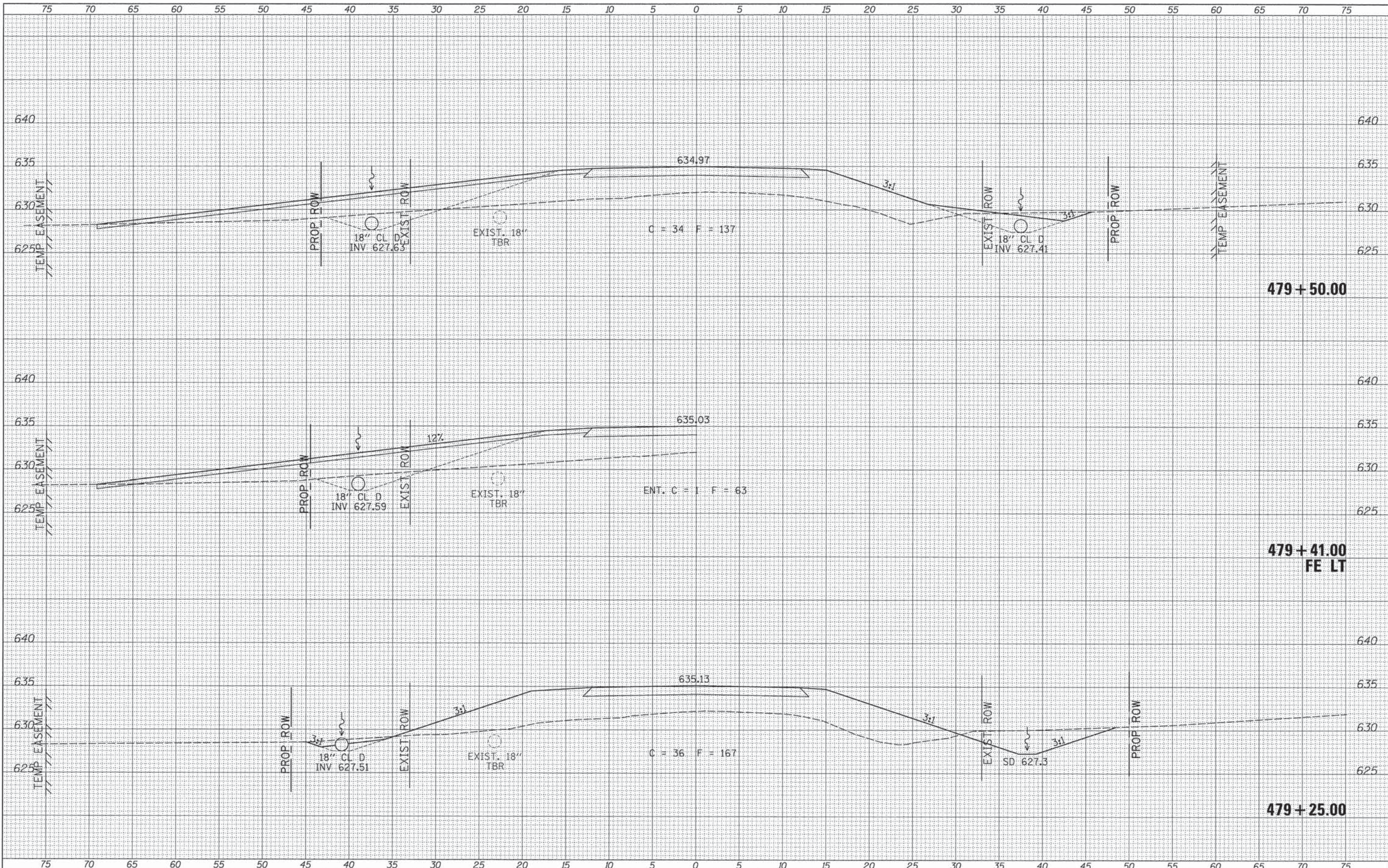
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W:\Bridge\3332-Iroquois\3332xshs.dgn		DRAWN -	REVISED -			CH 42	11-00173-04-BR & 11-00173-05-BR	IROQUOIS	44	33	
Default		CHECKED -	REVISED -			CONTRACT NO. 87555					
		DATE -	REVISED -			SCALE: 1"=5'		SHEET 5 OF 16 SHEETS		STA. 477+75.00 TO STA. 479+00.00	

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PLOT DATE = 1/22/2014	CHECKED -	REVISED -
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**IROQUOIS COUNTY
 COUNTY HIGHWAY 42 OVER
 PRAIRIE CREEK AND PRAIRIE CREEK TRIBUTARY**

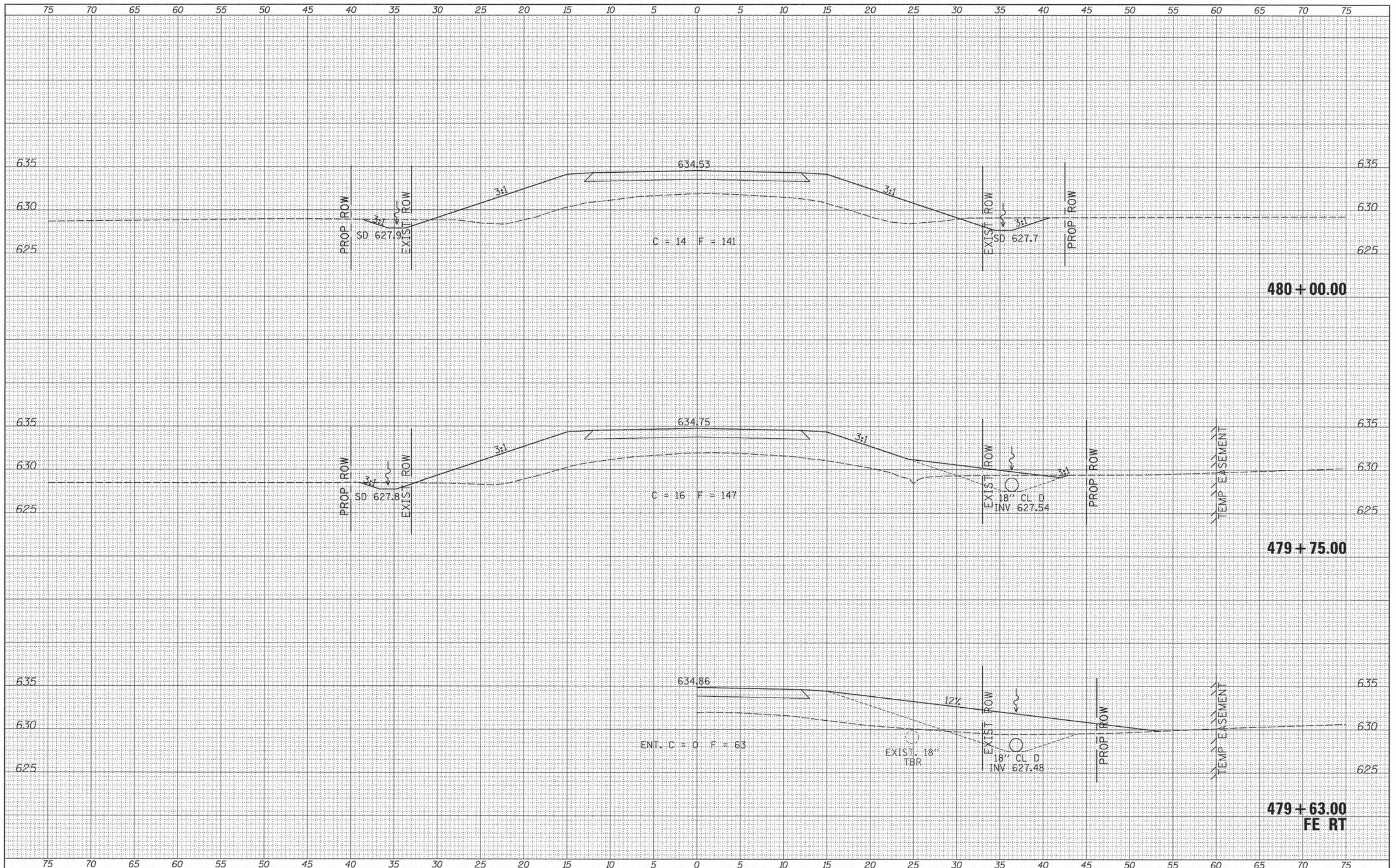
CROSS SECTIONS

SCALE: 1"=5' SHEET 6 OF 16 SHEETS STA. 479+25.00 TO STA. 479+50.00

RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
CH 42 II-00173-04-BR & II-00173-05-BR		IROQUOIS	44	34
FED. ROAD DIST. NO. 7 ILLINOIS			CONTRACT NO. 87555	
FED. AID PROJECT BROS-0075(81)				

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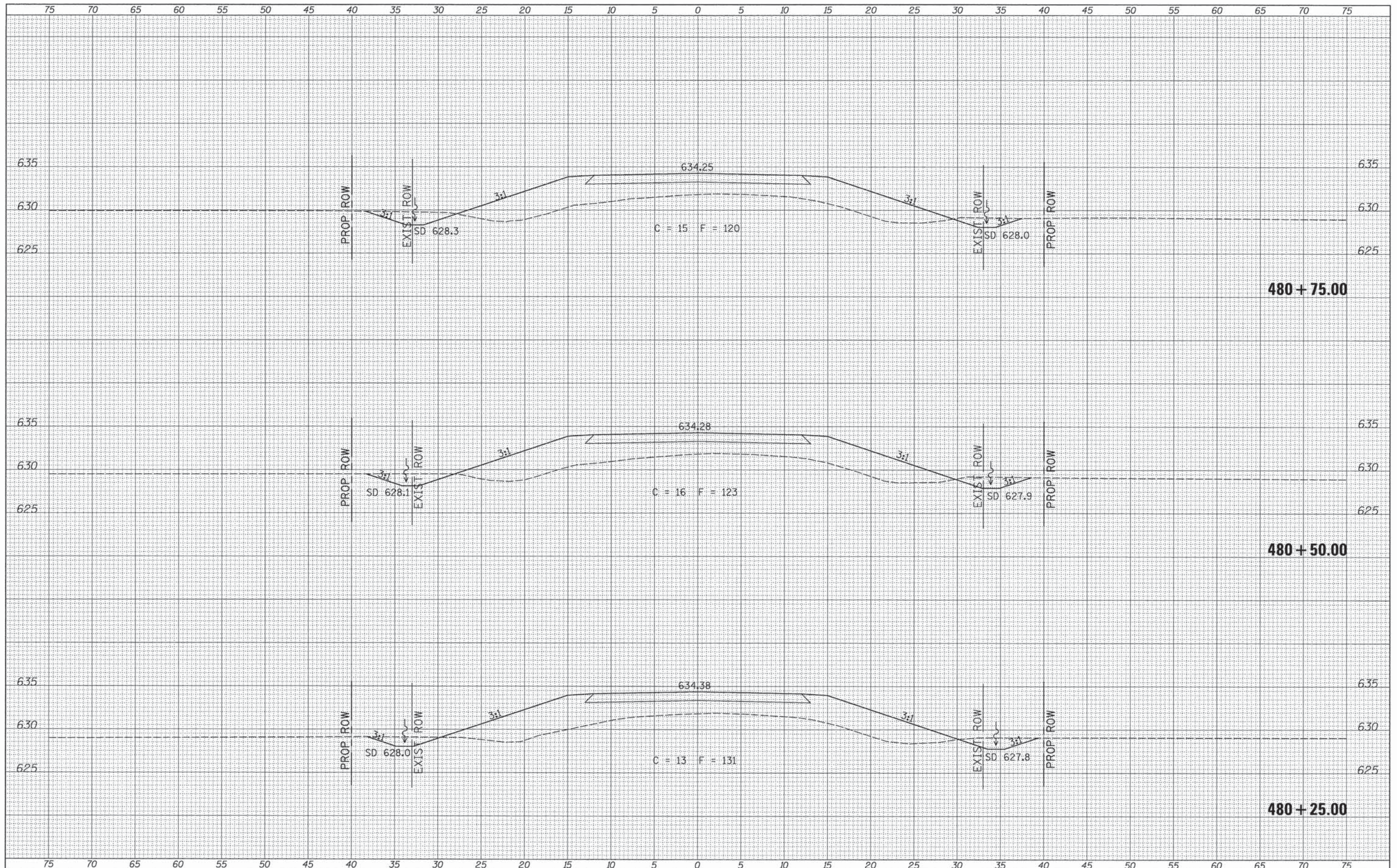
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Default	PLOT SCALE = 5.0000' / 1"	DRAWN -	REVISED -		SCALE: 1"=5'	SHEET 7 OF 16 SHEETS	STA. 479+63.00 TO STA. 480+00.00	FED. ROAD DIST. NO. 7	ILLINOIS	FED. AID PROJECT BROS-0075181D
	PLOT DATE = 1/22/2014	CHECKED -	REVISED -							
		DATE -	REVISED -							

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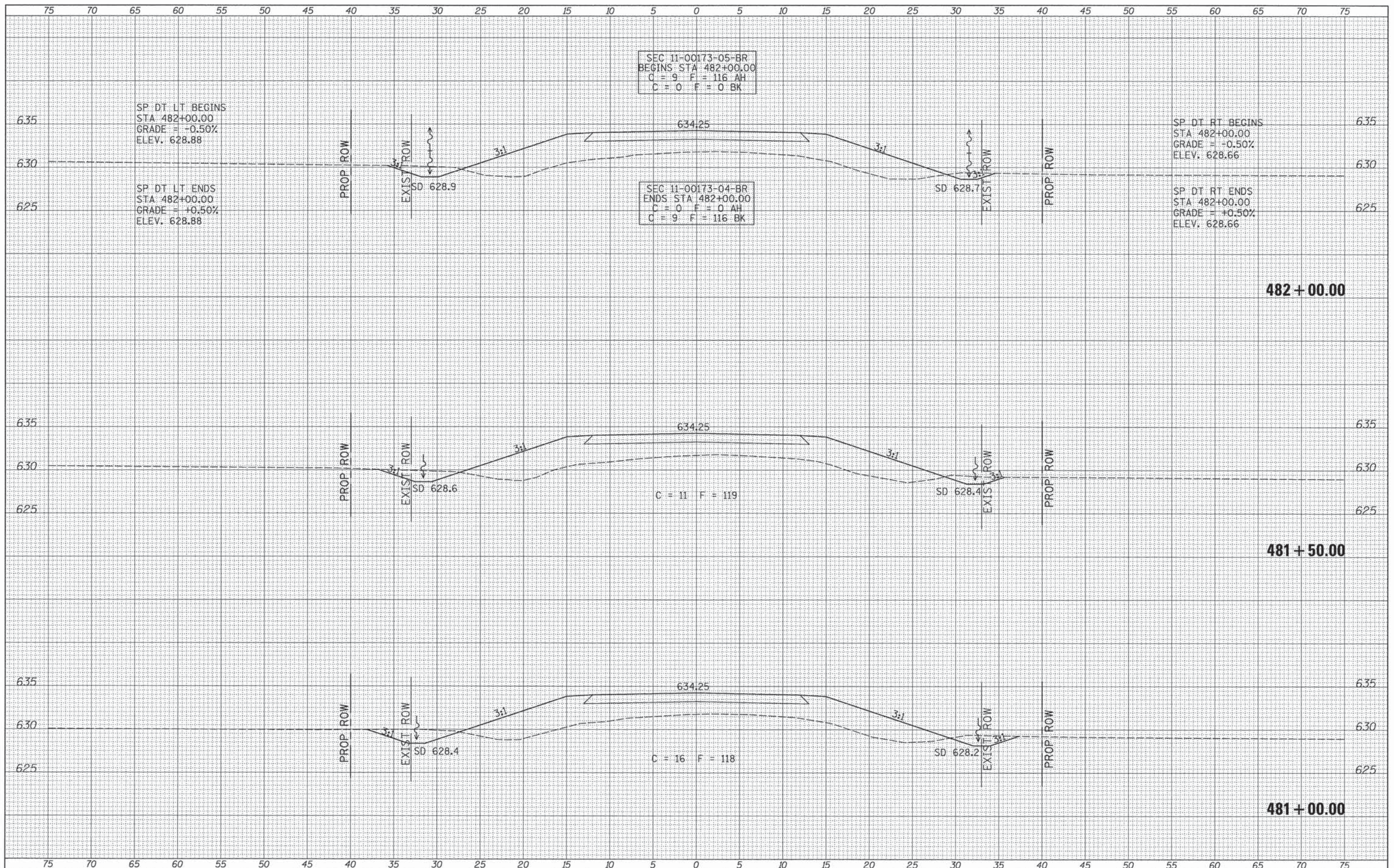
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W:\Bridges\3332-Iroquois\3332xhsta.dgn		DRAWN -	REVISED -		CH 42 11-00173-04-BR & 11-00173-05-BR	IROQUOIS	44	36			
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		DATE -	REVISED -								

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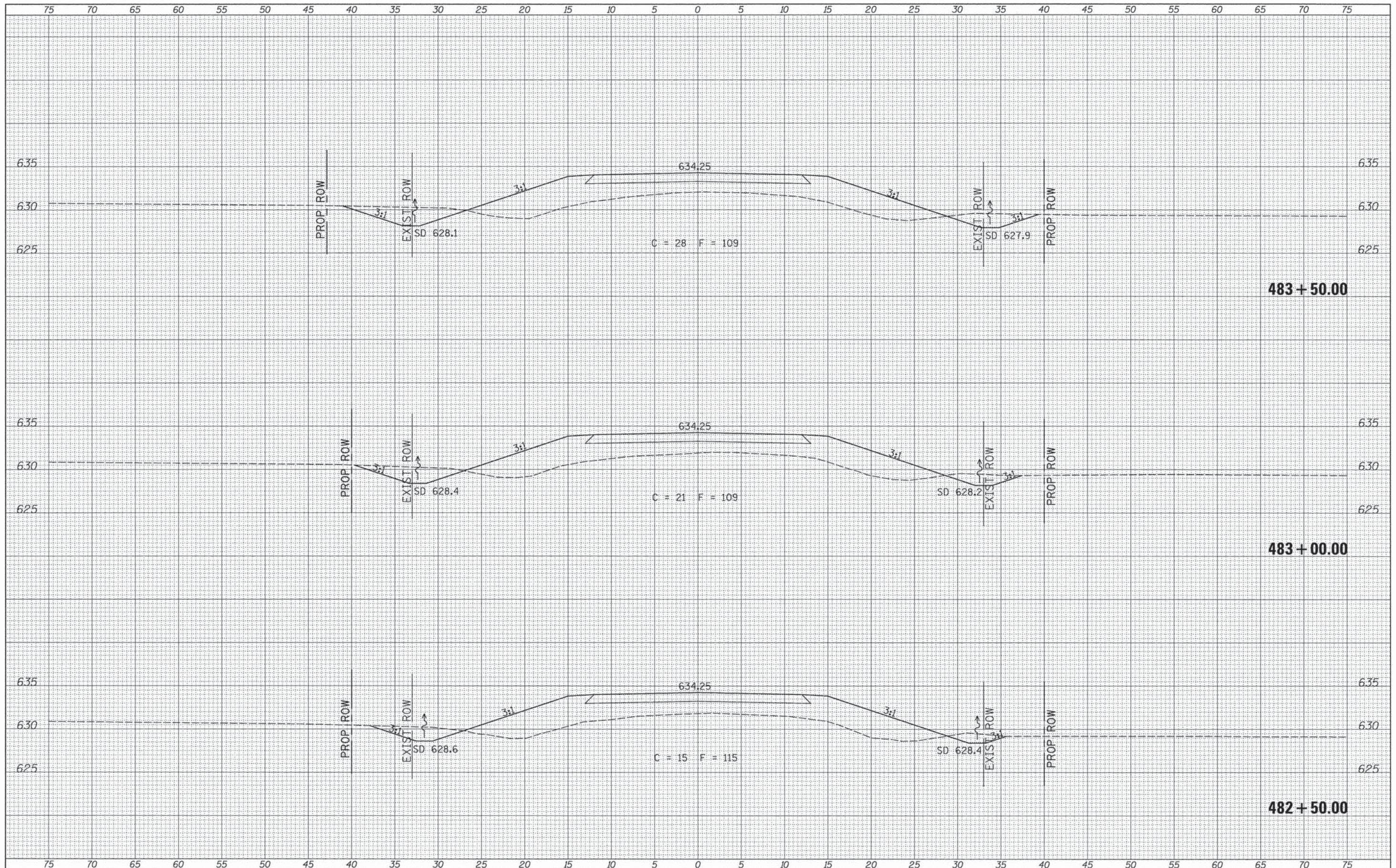
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W:\Bridge\3332-Iroquois\3332\ahs.dgn		DRAWN -	REVISED -			CH 42	11-00173-04-BR & 11-00173-05-BR	IROQUOIS	44	37	
Default		CHECKED -	REVISED -			CONTRACT NO. 87555					
		DATE -	REVISED -			SCALE: 1"=5'		SHEET 9 OF 16 SHEETS		STA. 481+00.00 TO STA. 482+00.00	

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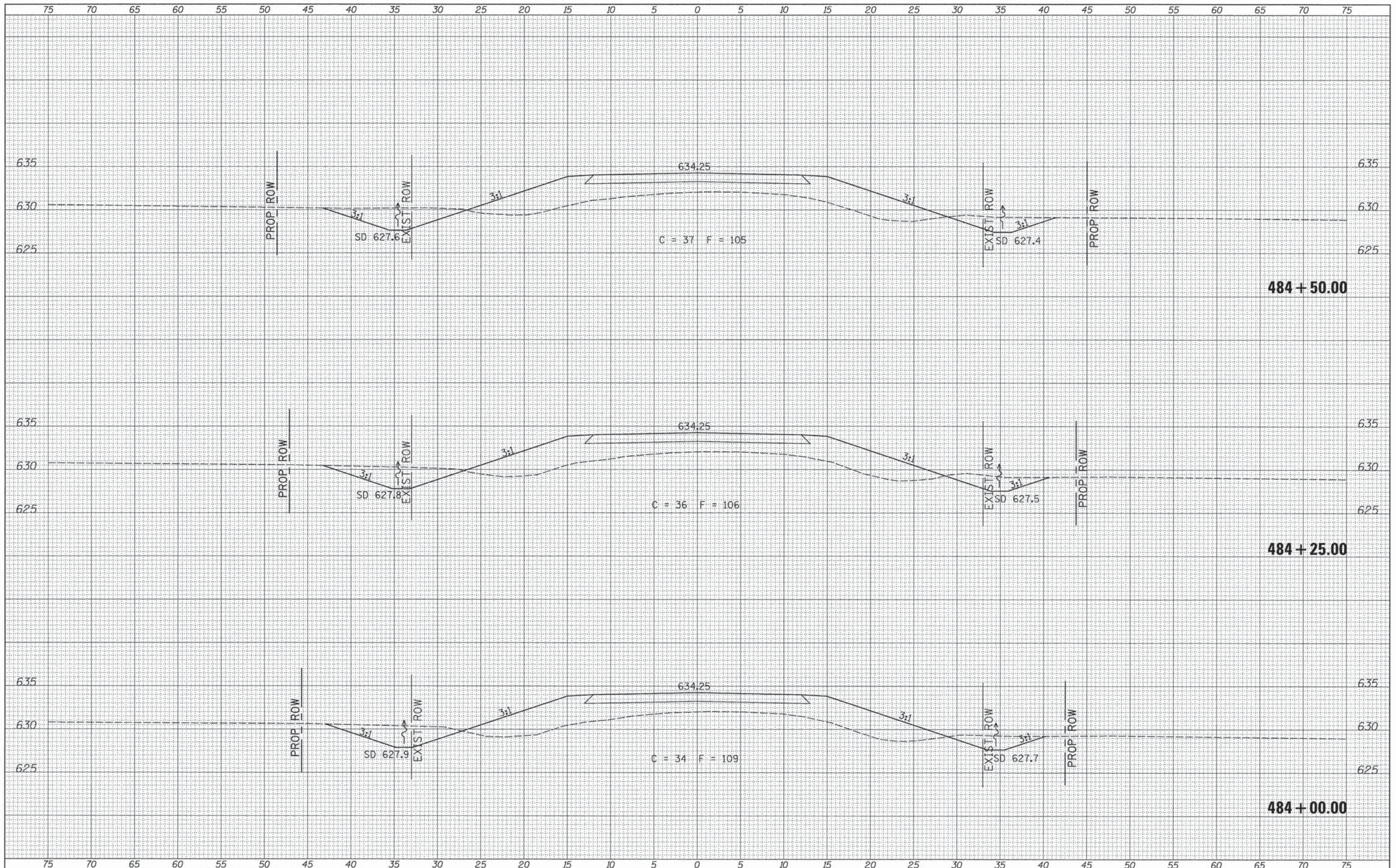
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Default	PLOT SCALE = 5.0000 / in.	DRAWN -	REVISIONS -			CH 42 11-00173-04-BR & 11-00173-05-BR	IROQUOIS	44	38	
	PLOT DATE = 1/22/2014	CHECKED -	REVISIONS -			CONTRACT NO. 87555				
		DATE -	REVISIONS -			FED. ROAD DIST. NO. 7 ILLINOIS FED. AID PROJECT BROS-0075(181)				

DATE	
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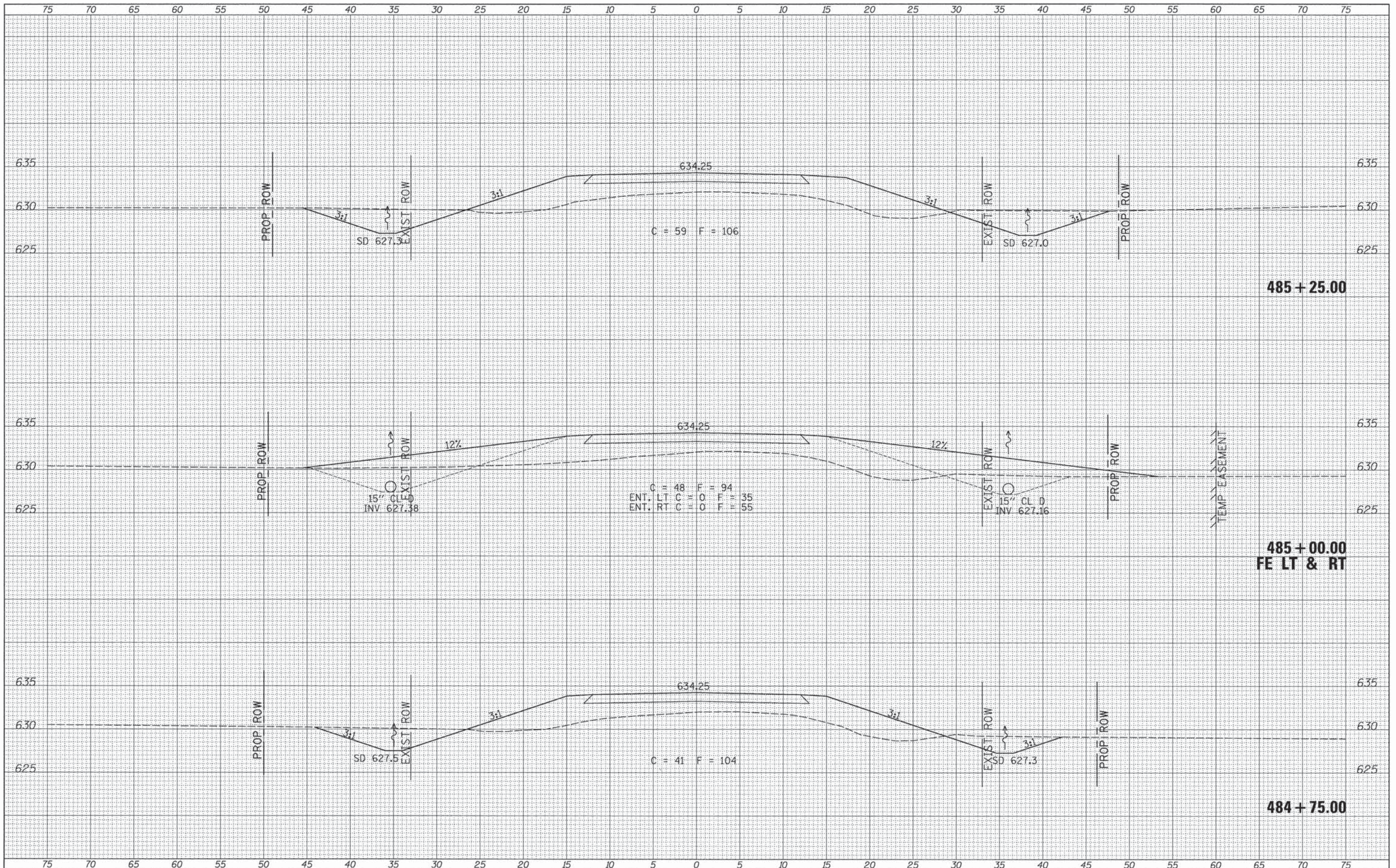
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Default	PLOT SCALE = 5.0000 1/ in.	DRAWN -	REVISED -			CH 42	11-00173-04-BR & 11-00173-05-BR	IROQUOIS	44	39	
	PLOT DATE = 1/22/2014	CHECKED -	REVISED -			SCALE: 1"=5'		SHEET 11 OF 16 SHEETS		STA. 484+00.00 TO STA. 484+50.00	
		DATE -	REVISED -			FED. ROAD DIST. NO. 7		ILLINOIS		FED. AID PROJECT BROS-0075(18)	

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Default	PLOT SCALE = 5.0000' / 1"	DRAWN -	REVISED -		SCALE: 1"=5'	SHEET 12	OF 16 SHEETS	CH 42 11-00173-04-BR & 11-00173-05-BR	IROQUOIS	44	40	
	PLOT DATE = 1/22/2014	CHECKED -	REVISED -		STA. 484+75.00	TO STA. 485+25.00	FED. ROAD DIST. NO. 7	ILLINOIS	FED. AID PROJECT BROS-007518D			
		DATE -	REVISED -									

STA 486+93.00
 C = 5 F = 37 AH
 C = 0 F = 0 BK
 BRIDGE OMISSION
 STA 486+19.00
 C = 0 F = 0 AH
 C = 48 F = 52 BK

SP DT LT ENDS
 STA 486+59.00
 GRADE = -0.50%
 ELEV. 626.59

SP DT RT ENDS
 STA 486+06.00
 GRADE = -0.50%
 ELEV. 626.63

C = 84 F = 71

C = 78 F = 88

C = 68 F = 112

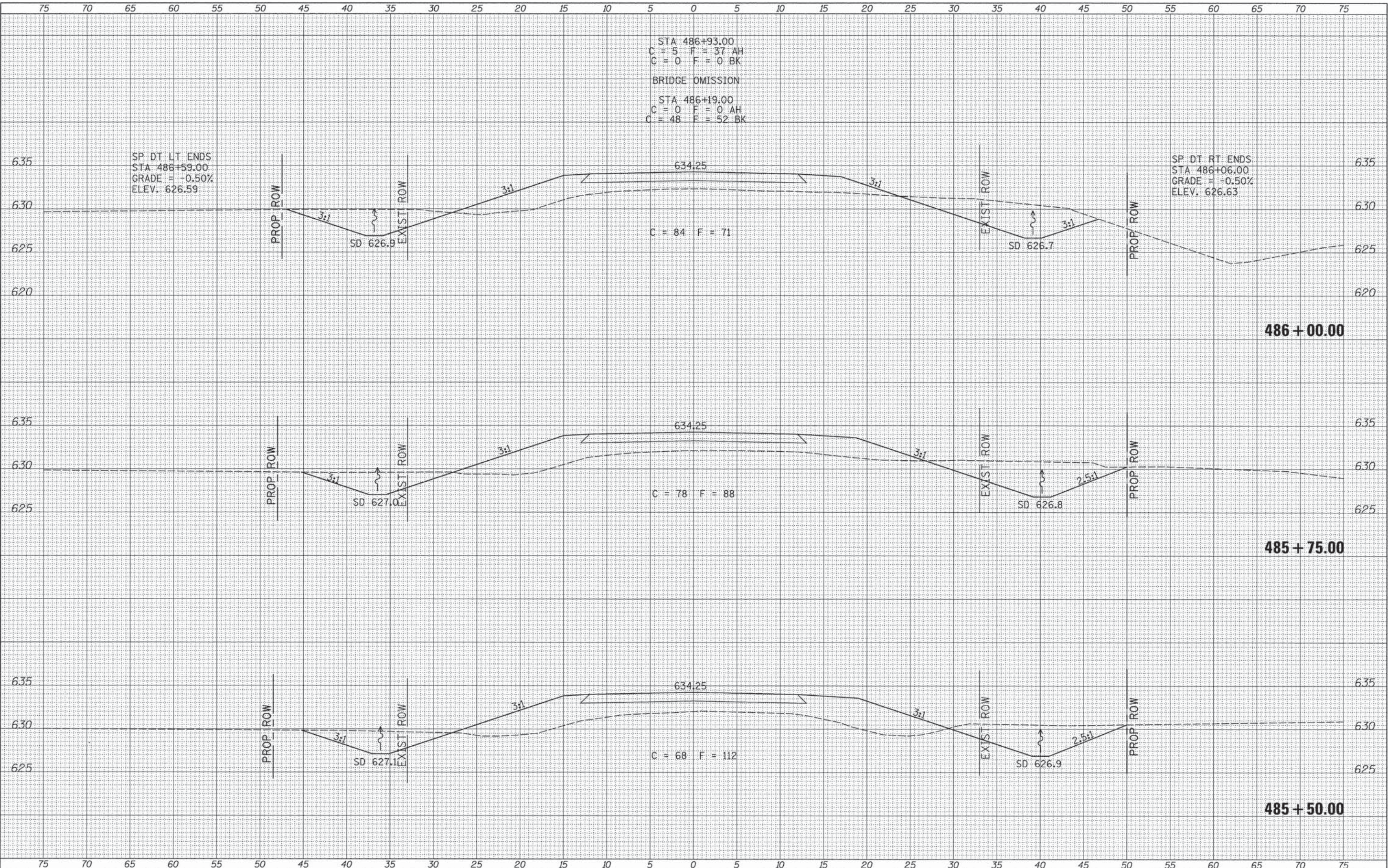
486+00.00

485+75.00

485+50.00

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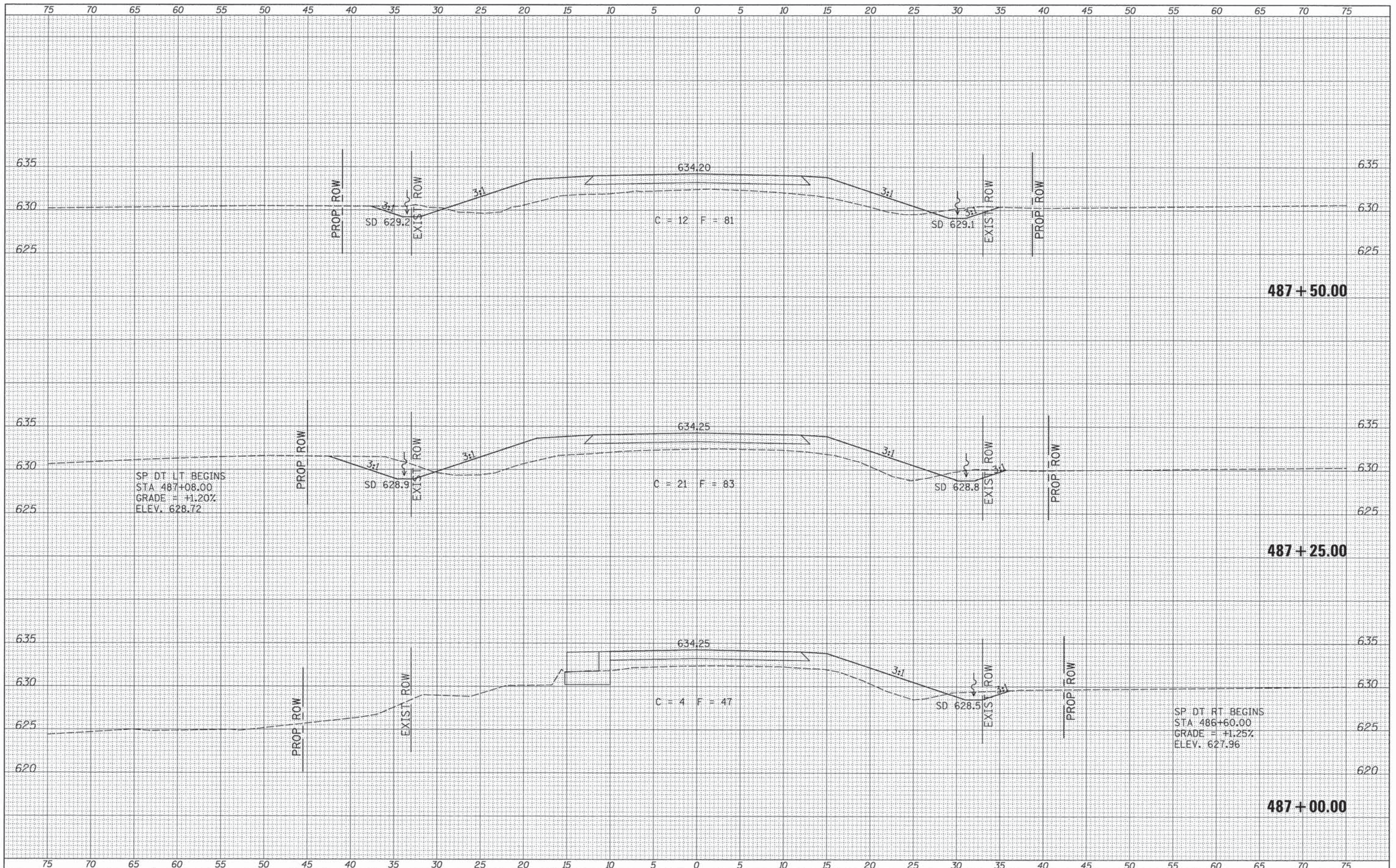
**IROQUOIS COUNTY
 COUNTY HIGHWAY 42 OVER
 PRAIRIE CREEK AND PRAIRIE CREEK TRIBUTARY**

CROSS SECTIONS
 SCALE: 1"=5'
 SHEET 13 OF 16 SHEETS
 STA. 485+50.00 TO STA. 486+00.00

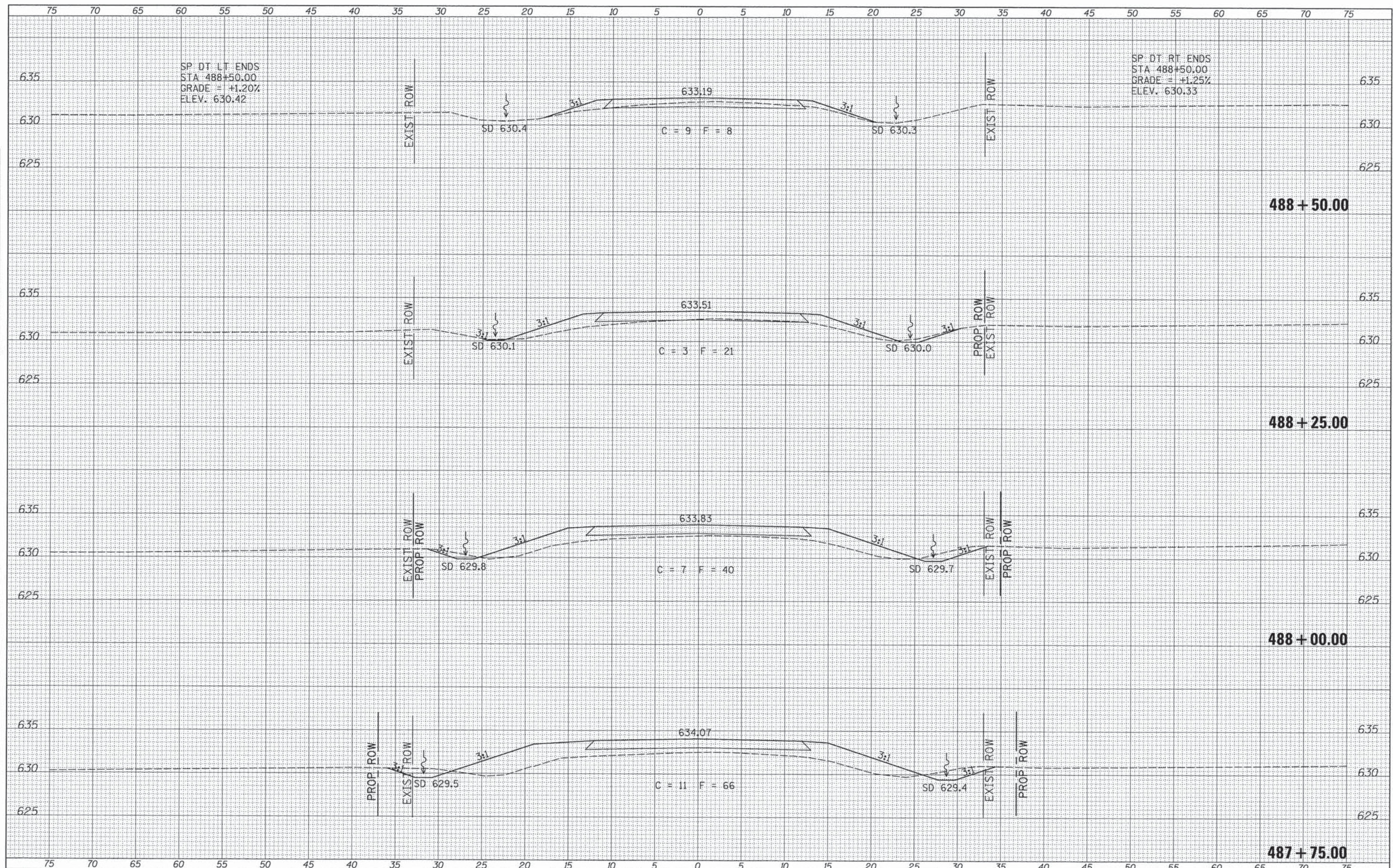
RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
CH 42	11-00173-04-BR & 11-00173-05-BR	IROQUOIS	44	41
CONTRACT NO. 87555			FED. ROAD DIST. NO. 7 ILLINOIS	
FED. AID PROJECT BROS-0075181D				

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



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V:\Bridge\3332-Iroquois\3332xshs.dgn		DRAWN -	REVISED -			CH 42	11-00173-04-BR & 11-00173-05-BR	IROQUOIS	44	42	
Default		CHECKED -	REVISED -			CONTRACT NO. 87555					
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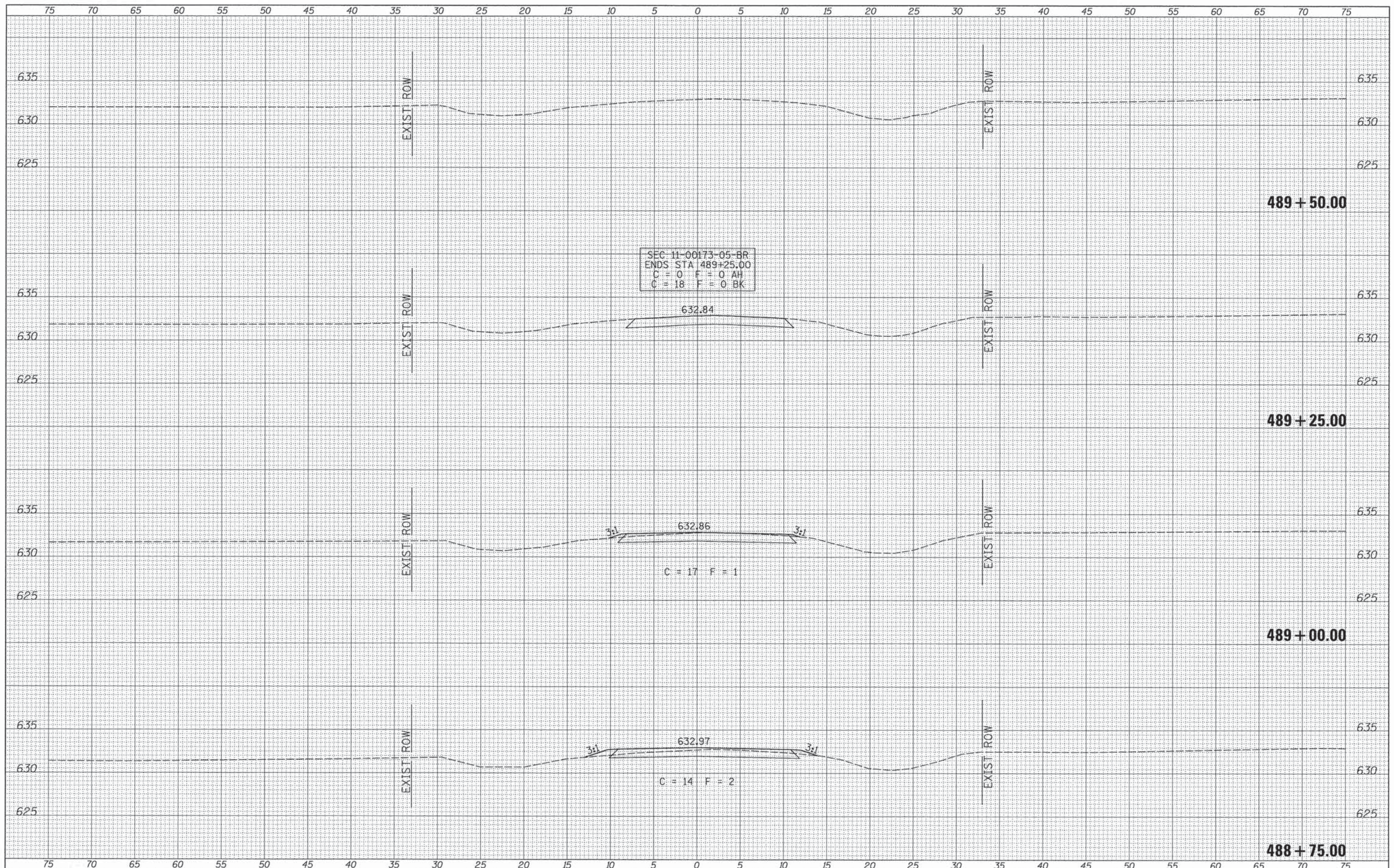


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 PLOT DATE = 1/22/2014

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

**IROQUOIS COUNTY
 COUNTY HIGHWAY 42 OVER
 PRAIRIE CREEK AND PRAIRIE CREEK TRIBUTARY**

CROSS SECTIONS

SCALE: 1"=5' SHEET 16 OF 16 SHEETS STA. 488+75.00 TO STA. 489+50.00

RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
CH 42	11-00173-04-BR & 11-00173-05-BR	IROQUOIS	44	44
FED. ROAD DIST. NO. 7 ILLINOIS		FED. AID PROJECT BROS-0075(181)		