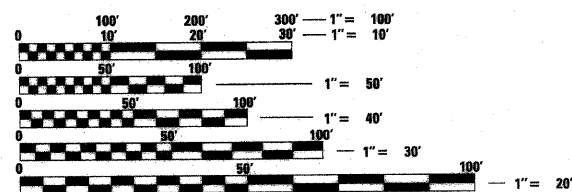


INDEX OF SHEETS

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- 2 = SUMMARY OF QUANTITIES
- 3 = SCHEDULE OF QUANTITIES
- 4 = GENERAL NOTES AND DETAILS
- 5 = TYPICAL SECTIONS
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- 8-9 = EROSION CONTROL PLAN
- 10 = GENERAL PLAN AND ELEVATION
- 11 = RIPRAP AND PILE LAYOUT
- 12 = 33"x48" PPC DECK BEAM
- 13 = 33"x48" PPC DECK BEAM DETAILS
- 14 = SOUTH ABUTMENT
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- 16 = STEEL RAILING, TYPE S1 DETAILS
- 17 = HP PILE DETAILS
- 18 = BORING LOGS
- 19-23 = CROSS SECTIONS

STANDARDS

- 000001-06 STANDARD SYMBOLS, ABBREVIATIONS, AND PATTERNS
- 280001-05 TEMPORARY EROSION CONTROL SYSTEMS
- 515001-03 NAME PLATE FOR BRIDGES
- 601001-04 SUB-SURFACE DRAINS
- 601101-01 CONCRETE HEADWALL FOR PIPE DRAIN
- 630001-09 STEEL PLATE BEAM GUARDRAIL
- 630301-05 SHOULDER WIDENING FOR TYPE 1 (SPECIAL) GUARDRAIL TERMINALS
- 635006-03 REFLECTOR AND TERMINAL MARKER PLACEMENT
- 635011-02 REFLECTOR MARKER AND MOUNTING DETAILS
- 701901-01 TRAFFIC CONTROL DEVICES
- 720011-01 METAL POSTS FOR SIGNS, MARKERS & DELINEATORS
- 728001-01 TELESCOPING STEEL SIGN SUPPORT
- 729001-01 APPLICATIONS OF TYPE A & B METAL POSTS (FOR SIGNS & MARKERS)
- BLR 21-8 TYPICAL APPLICATION OF TRAFFIC CONTROL DEVICES FOR CONSTRUCTION ON RURAL LOCAL HIGHWAYS
- BLR 22-6 TYPICAL APPLICATION OF TRAFFIC CONTROL DEVICES FOR CONSTRUCTION ON RURAL LOCAL HIGHWAYS
- BLR 27-1 TRAFFIC BARRIER TERMINAL TYPE 5A



FULL SIZE PLANS HAVE BEEN PREPARED USING STANDARD ENGINEERING SCALES. REDUCED SIZED PLANS WILL NOT CONFORM TO STANDARD SCALES. IN MAKING MEASUREMENTS ON REDUCED PLANS, THE ABOVE SCALES MAY BE USED.

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

PROJECT ENGINEER - BSK
PROJECT MANAGER - BKC
CONTRACT NO. 87483

PROPOSED STRUCTURE: S.N. 006-4012
 A SINGLE SPAN (84'-10") PRECAST PRESTRESSED CONCRETE DECK BEAM BRIDGE ON SPILL-THRU ABUTMENTS @ STA. 15+00 SKEWED 20° RT. AHEAD.

FUNCTIONAL CLASSIFICATION
LOCAL ROAD (NON-URBAN)
DESIGN SPEED 30 MPH
2011 ADT - 225
3R GUIDELINES

STATE OF ILLINOIS

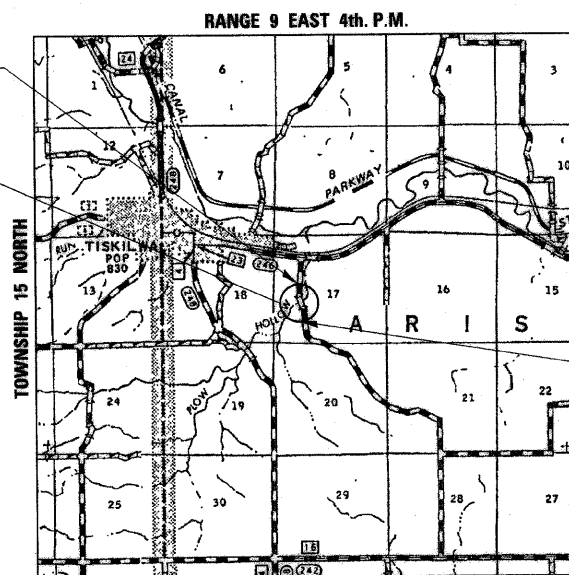
DEPARTMENT OF TRANSPORTATION

DIVISION OF HIGHWAYS

**PLANS FOR PROPOSED
 FEDERAL-AID PROJECT
 HIGHWAY BRIDGE PROGRAM**

TOWNSHIP ROUTE 240
SECTION 10-01121-00-BR
PROJECT BROS-0011(075)
STRUCTURE REPLACEMENT
BUREAU COUNTY
ARISPIE ROAD DISTRICT

C-93-070-11



CONSTRUCTION ENDS
 STATION 18+00

CONSTRUCTION BEGINS
 STATION 12+00

GROSS LENGTH = 600 FT. = 0.11 MILE
 NET LENGTH = 600 FT. = 0.11 MILE

UTILITIES:

NICOR GAS
 ATTN: ENGINEERING DEPARTMENT
 4651 LINDEN ROAD
 ROCKFORD, IL 61109
 815-965-0143

VERIZON (FRONTIER COM.)
 ATTN: GARRETT BURT
 112 ELM STREET
 SYCAMORE, IL 60178
 815-895-1538

CORN BELT ENERGY
 ATTN: IAN CARDOSI
 1 ENERGY WAY
 BLOOMINGTON, IL 61705
 800-879-0339 EXT. 304



LOCATION OF SECTION INDICATED THUS: - [thick line] -

BUREAU COUNTY HIGHWAY DEPARTMENT		
APPROVED	<u>4-8</u> <i>John C. [Signature]</i> BUREAU COUNTY ENGINEER	2011
APPROVED	<u>4-8</u> <i>Carl [Signature]</i> ARISPIE TOWNSHIP ROAD COMMISSIONER	2011
PASSED	<u>Apr 8</u> <i>[Signature]</i> DISTRICT 3 PROJECT IMPLEMENTATION ENGINEER	2011
RELEASING FOR BID BASED ON LIMITED REVIEW	<u>Apr 8</u> <i>[Signature]</i> DEPUTY DIRECTOR OF HIGHWAYS, REGION 2 ENGINEER	2011



Brian K. Converse
 DATE: March 31, 2011
 EXPIRES 11/30/11

WILLETT, HOFMANN & ASSOCIATES, INC.
CONSULTING ENGINEERS
 Land Surveying - Transportation - Structural
 Environmental - Architecture
 809 East Second Street Dixon, Illinois 61021
 Phone 815.284.3381 Fax 815.284.3385
 Design Firm #184-000918
 www.willett-hofmann.com

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SUMMARY OF QUANTITIES
CONSTRUCTION TYPE CODE: 0011

PAY CODE	QUANTITY	UNIT	ITEM
20100110	326	Unit	Tree Removal (6 to 15 units diameter)
20100210	342	Unit	Tree Removal (over 15 units diameter)
*20200100	389	Cu. Yd.	Earth Excavation
20300100	115	Cu. Yd.	Channel Excavation
20400800	233	Cu. Yd.	Furnished Excavation
25100630	2,814	Sq. Yd.	Erosion Control Blanket
*28000305	87	Foot	Temporary Ditch Checks
28000400	559	Foot	Perimeter Erosion Barrier
*31100100	857	Ton	Subbase Granular Material, Type A
*40200800	25	Ton	Aggregate Surface Course, Type B
*40600100	616	Gallon	Bituminous Materials (Prime Coat)
40603305	204	Ton	Hot-Mix Asphalt Surface Course, Mix "C", N30
48101200	111	Ton	Aggregate Shoulders, Type B
*50100100	1	Each	Removal of Existing Structures
50105220	21	Foot	Pipe Culvert Removal
50300225	45.8	Cu. Yd.	Concrete Structures
50300280	4.2	Cu. Yd.	Concrete Encasement
50400605	2,036	Sq. Ft.	Precast Prestressed Concrete Deck Beams (33" Depth)
50800105	5,480	Pound	Reinforcement Bars
+ 50900205	173	Foot	Steel Railing, Type S1
51201610	260	Foot	Furnishing Steel Piles HP12x63
51202305	260	Foot	Driving Piles
51203610	2	Each	Test Pile Steel HP12x63
51500100	1	Each	Name Plates
*60107700	1,059	Foot	Pipe Underdrains 6"
+ 63000001	50	Foot	Steel Plate Beam Guardrail, Type A, 6 Foot Posts
+ 63100075	4	Each	Traffic Barrier Terminal, Type 5A
+*63100167	4	Each	Traffic Barrier Terminal, Type 1 (Special) Tangent
67100100	1	L. Sum	Mobilization
+ 78200410	12	Each	Guardrail Markers, Type A
Z0013798	1	L. Sum	Construction Layout
*X2070302	100	Ton	Porous Granular Embankment, Special
*X2501100	0.59	Acre	Seeding, Class 3 (Special)
*X2810212	909	Ton	Stone Riprap, Class A6 (Special)
*X7010216	1	L. Sum	Traffic Control and Protection, (Special)

*See BLR 11310 in the contract documents for Special Provisions.

+Specialty Item

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USER NAME =	DESIGNED - B.S.K.	REVISED -
	CHECKED - B.K.C.	REVISED -
PLOT SCALE =	DRAWN - R.D.A.	REVISED -
PLOT DATE =	CHECKED - B.S.K.	REVISED -

BUREAU COUNTY
TR 240 OVER PLOW HOLLOW CREEK
STATION 15 + 00

SUMMARY OF QUANTITIES
STRUCTURE NO. 006-4012

STA. 12+00 TO STA. 18+00

TWP. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
240	10-01121-00-BR	BUREAU	23	2
WHA# 1285D10		CONTRACT NO. 87483		
[ILLINOIS] FED. AID PROJECT BROS-0011(075)				

SCHEDULE OF QUANTITIES

TREE REMOVAL (6 TO 15 UNITS DIAMETER)	TEMPORARY DITCH CHECKS	PIPE UNDERDRAINS 6"
LOCATION	LOCATION	LOCATION
UNIT	FOOT	FOOT
REMARKS	REMARKS	REMARKS
STA. 12+11 LT. 27' 8	RT. STA. 12+25 8	LT. STA. 12+00 - 14+53 269
STA. 12+11 LT. 15' 15	RT. STA. 12+50 8	RT. STA. 12+00 - 14+60 272
STA. 12+25 LT. 25' 24	RT. STA. 12+75 8	LT. STA. 15+40 - 18+00 264
STA. 12+40 LT. 27' 19	RT. STA. 13+00 8	RT. STA. 15+49 - 18+00 254
STA. 12+48 LT. 25' 12	RT. STA. 13+25 9	TOTAL 1,059 FOOT
STA. 12+81 LT. 18' 15	RT. STA. 13+50 10	60107700*
STA. 12+83 LT. 31' 20	RT. STA. 13+75 9	STEEL PLATE BEAM GUARDRAIL, TYPE A, 6 FOOT POSTS
STA. 12+86 LT. 24' 30	RT. STA. 14+00 8	LOCATION
STA. 12+94 LT. 24' 10	RT. STA. 14+25 8	FOOT
STA. 13+09 LT. 24' 14	LT. STA. 18+00 11	REMARKS
STA. 13+18 LT. 24' 14	TOTAL 87 FOOT	LT. STA. 14+28.0 - 14+40.3 12.5 1: 11.2 FLARE RATE
STA. 13+28 LT. 36' 10	28000305*	RT. STA. 14+34.9 - 14+47.5 12.5 1: 19.6 FLARE RATE
STA. 13+34 LT. 20' 12	PERIMETER EROSION BARRIER	LT. STA. 15+51.5 - 15+63.8 12.5 1: 15.0 FLARE RATE
STA. 13+42 LT. 23' 8	LOCATION	RT. STA. 15+61.6 - 15+74.3 12.5 1: 9.4 FLARE RATE
STA. 13+64 LT. 42' 12	LT. STA. 12+00 - 14+69 285	TOTAL 50.0 FOOT
STA. 14+01 LT. 37' 7	RT. STA. 14+94 - 14+96 6	63000001
STA. 14+12 LT. 43' 6	LT. STA. 15+04 - 15+08 14	TRAFFIC BARRIER TERMINAL, TYPE 5A
STA. 14+17 LT. 42' 6	RT. STA. 15+34 - 16+65 135	LOCATION
STA. 14+26 LT. 28' 8	RT. STA. 16+81 - 18+00 119	EACH
STA. 14+34 LT. 28' 12	TOTAL 559 FOOT	REMARKS
STA. 14+41 LT. 43' 16	28000400	LT. STA. 14+40.3 - 14+53.3 1 1: 11.2 FLARE RATE
STA. 14+57 LT. 33' 8	SUBBASE GRANULAR MATERIAL, TYPE A	RT. STA. 14+47.5 - 14+60.9 1 1: 19.6 FLARE RATE
STA. 14+85 RT. 29' 6	LOCATION	LT. STA. 15+38.4 - 15+51.5 1 1: 15.0 FLARE RATE
STA. 15+15 LT. 33' 8	STA. 12+00.00 - 12+10.11 17 12" (TAPER)	RT. STA. 15+48.3 - 15+61.6 1 1: 9.4 FLARE RATE
STA. 15+20 LT. 45' 6	STA. 12+10.11 - 14+60.37 413 12"	TOTAL 4 EACH
STA. 15+30 LT. 41' 8	STA. 15+39.38 - 17+72.55 383 12"	63100075
STA. 15+77 RT. 28' 6	STA. 17+72.55 - 18+00.00 44 12" (TAPER)	TRAFFIC BARRIER TERMINAL, TYPE 1 (SPECIAL) TANGENT
STA. 15+88 RT. 25' 6	TOTAL 857 TON	LOCATION
TOTAL 326 UNIT	31100100*	EACH
20100110	AGGREGATE SURFACE COURSE, TYPE B	REMARKS
TREE REMOVAL (OVER 15 UNITS DIAMETER)	LOCATION	LT. STA. 13+77.3 - 14+28.0 1
LOCATION	F.E.R. 16+73 25	RT. STA. 13+82.6 - 14+34.9 1
UNIT	TOTAL 25 TON	LT. STA. 15+63.8 - 15+14.5 1
REMARKS	40200800*	RT. STA. 15+74.3 - 15+26.6 1
STA. 12+41 LT. 24' 24	BITUMINOUS MATERIALS (PRIME COAT)	TOTAL 4 EACH
STA. 12+51 LT. 16' 18	LOCATION	63100167*
STA. 12+63 LT. 24' 20	STA. 12+00.00 - 12+10.11 2 0.1 GAL/SY (OVER BIT)	GUARDRAIL MARKERS, TYPE A
STA. 12+95 LT. 22' 24	STA. 12+10.11 - 14+60.37 55 0.1 GAL/SY (OVER BIT)	LOCATION
STA. 13+04 LT. 17' 24	STA. 15+39.38 - 17+72.55 51 0.1 GAL/SY (OVER BIT)	EACH
STA. 13+40 LT. 18' 18	STA. 17+72.55 - 18+00.00 6 0.1 GAL/SY (OVER BIT)	REMARKS
STA. 13+62 LT. 15' 26	STA. 12+00.00 - 12+10.11 10 0.4 GAL/SY (OVER AGG)	LT. STA. 13+77.3 - 14+53.3 3
STA. 13+92 LT. 20' 18	STA. 12+10.11 - 14+60.37 242 0.4 GAL/SY (OVER AGG)	RT. STA. 13+82.6 - 14+60.9 3
STA. 14+04 LT. 21' 18	STA. 15+39.38 - 17+72.55 224 0.4 GAL/SY (OVER AGG)	LT. STA. 15+38.4 - 16+14.5 3
STA. 14+15 LT. 20' 18	STA. 17+72.55 - 18+00.00 26 0.4 GAL/SY (OVER AGG)	RT. STA. 15+48.3 - 16+26.6 3
STA. 14+50 LT. 44' 28	TOTAL 616 GALLON	TOTAL 12 EACH
STA. 15+09 LT. 44' 20	40600100*	78200410
STA. 15+46 RT. 33' 24	HOT-MIX ASPHALT SURFACE COURSE, MIX "C", N30	SEEDING CLASS 3 (SPECIAL)
STA. 16+89 LT. 20' 18	LOCATION	LOCATION
STA. 17+74 LT. 26' 22	STA. 12+00.00 - 12+10.11 4 2 - 1 1/2" LIFTS, TAPER	ACRE
STA. 17+85 LT. 26' 22	STA. 12+10.11 - 14+60.37 98 2 - 1 1/2" LIFTS	REMARKS
TOTAL 342 UNIT	STA. 15+39.38 - 17+72.55 92 2 - 1 1/2" LIFTS	LT. STA. 12+00 - 18+00 0.31
20100210	STA. 17+72.55 - 18+00.00 10 2 - 1 1/2" LIFTS, TAPER	RT. STA. 12+00 - 18+00 0.28
EARTH EXCAVATION	TOTAL 204 TON	TOTAL 0.59 ACRE
LOCATION	40603305	X2501100*
CU YD	AGGREGATE SHOULDERS, TYPE B	
REMARKS	LOCATION	
STA. 12+00 - 18+00 389	LT. STA. 12+00.00 - 14+54.15 28	
TOTAL 389 CU YD	RT. STA. 12+00.00 - 14+61.24 28	
20200100*	LT. STA. 15+37.92 - 18+00.00 29	
FURNISHED EXCAVATION	RT. STA. 15+47.78 - 16+59.33 20	
LOCATION	RT. STA. 16+89.00 - 18+00.00 6	
CU YD	TOTAL 111 TON	
REMARKS	48101200	
STA. 12+00 - 18+00 233	PIPE CULVERT REMOVAL	
TOTAL 233 CU YD	LOCATION	
20400800	RT. STA. 16+63 - 16+84 21	
EROSION CONTROL BLANKET	TOTAL 21 FOOT	
LOCATION	50105220	
SQ YD		
REMARKS		
LT. STA. 12+00 - 18+00 1,479		
RT. STA. 12+00 - 18+00 1,335		
TOTAL 2,814 SQ YD		
25100630		

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USER NAME =	DESIGNED - B.S.K.	REVISED -	BUREAU COUNTY TR 240 OVER PLOW HOLLOW CREEK STATION 15+00	SCHEDULE OF QUANTITIES STRUCTURE NO. 006-4012	TWP. 240	SECTION 10-01121-00-BR	COUNTY BUREAU	TOTAL SHEETS 23	SHEET NO. 3	
PLOT SCALE =	CHECKED - B.K.C.	REVISED -			WHA* 1285D10	CONTRACT NO. 87483				
PLOT DATE =	DRAWN - R.D.A.	REVISED -			ILLINOIS FED. AID PROJECT BROS-0011(075)					
	CHECKED - B.S.K.	REVISED -			STA. 12+00 TO STA. 18+00					

GENERAL NOTES

Existing structures (including foundations, walls, cisterns, wells, or other underground structures) within the right of way shall be removed in accordance with Article 501.04 and 501.05 of the Standard Specifications, without additional compensation, unless otherwise noted in the Plans or Special Provisions.

The Contractor shall seed all disturbed areas within the project limits.

The final top four inches of soil in any right of way area disturbed by the Contractor must be a cohesive soil capable of supporting vegetation and approved by the Engineer.

No overhaul has been computed and none shall be paid for from any source.

The Contractor shall be responsible for protecting utility property during construction operations as outlined in Article 107.31 of the Standard Specifications.

All telephone and electric poles, gas pipes, etc. in the way of the improvements shall be moved by the utilities prior to construction and shall not be included in the contract. The Contractor shall notify the respective utilities to make the necessary adjustments prior to this construction.

The location and elevation of the various underground utilities as shown on the plans are not to be taken as exact. The Contractor shall use special care when conducting construction operations near them to prevent damage.

The utilities located within the project limits or immediately adjacent to the project construction limits include:

Nicor Gas	Verizon (Frontier Com.)	Corn Belt Energy
Attn: Engineering Dept.	Attn: Garrett Burt	Attn: Ian Cardosi
4651 Linden Road	112 Elm Street	1 Energy Way
Rockford, IL 61109	Sycamore, IL 60178	Bloomington, IL 61705
Ph: 815-965-0143	Ph: 815-895-1538	Ph: 800-879-0339 Ext. 304

A minimum of 48 hours advance notice is required for non-emergency work.

A Nationwide 404 Permit has been issued for this project and the conditions of that Permit must be adhered to.

Where section or subsection monuments are encountered, the Engineer shall be notified before such monuments are removed. The Contractor shall protect and carefully preserve all property markers, monuments, and right of way pins until the Owner, an Authorized Surveyor, or Agent has witnessed or otherwise referenced their location. Any property markers, section or subsection monuments unless referenced, damaged by the Contractor shall be replaced at the expense of the Contractor.

Existing mail boxes, street signs, and traffic signs that are within the construction limits shall be removed and reset by the Contractor. Cost of removing and resetting to be included in the contract unit price bid per Cubic Yard for Earth Excavation.

Where the proposed construction meets an existing bituminous surface, or where sawing is stated on the plans, the existing shall be sawed in a neat, straight line. Cost of sawing to be included in the contract unit price bid per Cubic Yard for Earth Excavation.

PAVEMENT MIXTURE REQUIREMENTS

	Surface
PG:	58-22
Design Air Voids	3.0 @ N30
Mixture Composition (Gradation Mixture)	IL 9.5
Friction Aggregate	C
Density Testing	Cores

PAVEMENT STRUCTURAL DESIGN

TR 240

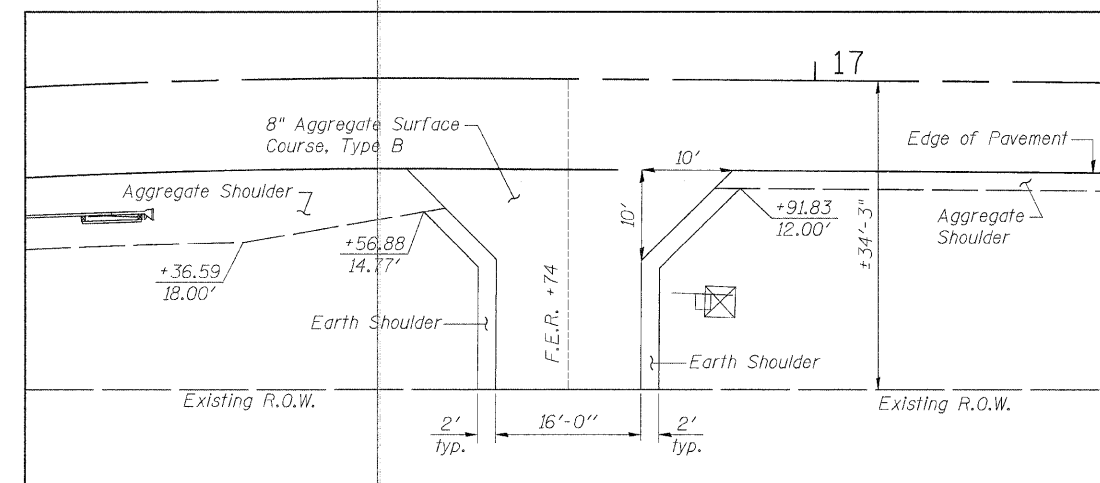
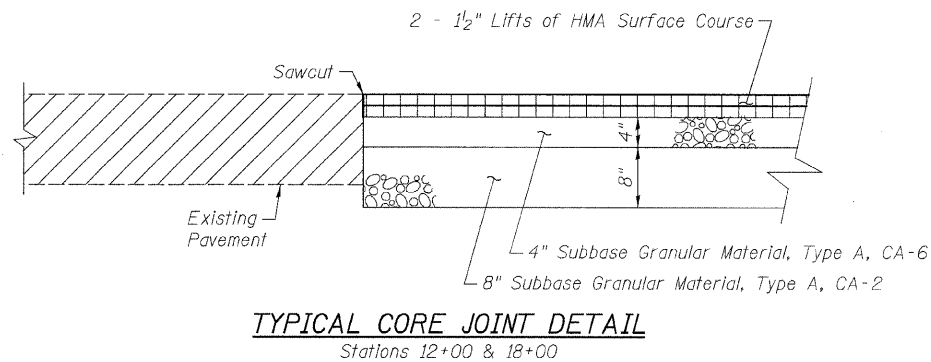
Structural Design Traffic (S.D.T.) = Year 2021
 Class IV Road
 80,000# Truck Design
 E_{RI} : 2 ksi (Poor Subgrade)
 HCVs = 35

P.V. 257	} 292 ADT
S.U. 26	
M.U. 9	

USE:
 3" Hot-Mix Asphalt Surface Course, Mix "C", N30 (2 - 1/2" Lifts)
 12" Subbase Granular Material, Type A (4" CA-6 over 8" CA-2)

TR 240 (1925 STREET EAST) - HORIZONTAL CONTROL POINTS (NAD83-2007)					
PT #	STA.	N	E	EL.	DESCRIPTION
100	10.7' LT. 19+91.1	1682604.09	2483757.38	520.17	5/8" I.P. W/CAP
101	24.4' LT. 16+24.0	1682235.90	2483755.18	522.00	5/8" I.P. W/CAP
102	15.5' RT. 13+93.6	1682017.01	2483838.88	525.56	5/8" I.P. W/CAP
103	11.7' LT. 10+65.7	1681700.78	2483928.15	534.13	5/8" I.P. W/CAP

TR 240 (1925 STREET EAST) - VERTICAL BENCH MARKS			
PT #	STA.	ELEVATION	DESCRIPTION
400	23.2' RT. 19+80.1	520.12	RR SPIKE IN PP
401	13.6' RT. 14+56.5	525.97	CHISELED "□" ON SOUTHEAST WINGWALL
402	26.7' RT. 10+82.9	534.06	RR SPIKE IN PP W/TRANSFORMER



FIELD ENTRANCE DETAIL

FILE NAME = S:\PROJECTS\2010\1285D10 - Bureau Co. - TR240\DESIGN\STRUCT\1285D10 - General Notes & Details.dgn

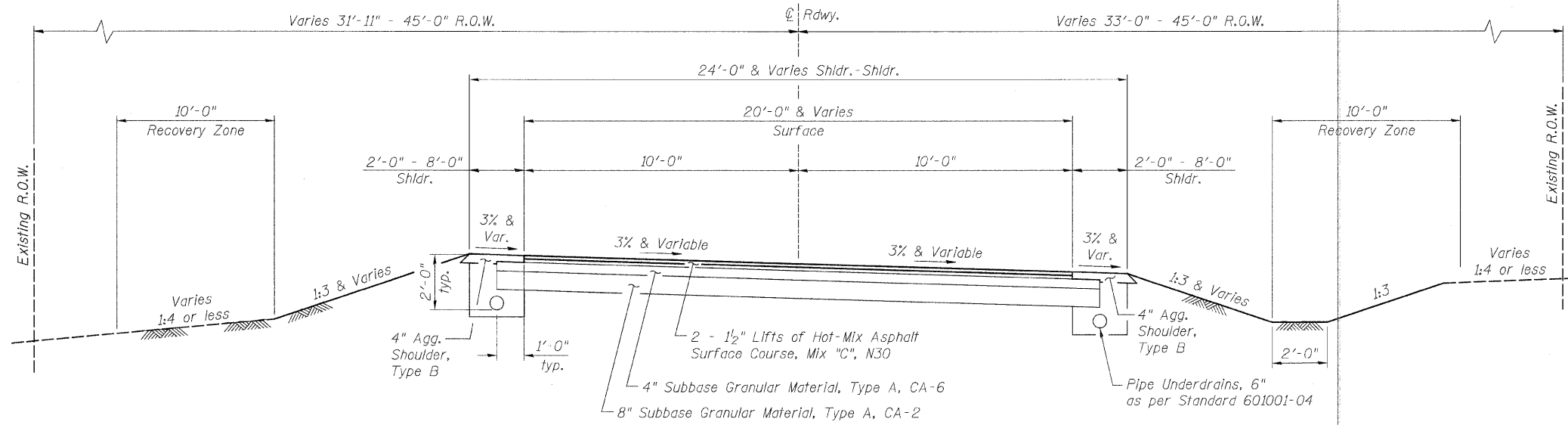
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PLOT SCALE =	CHECKED - B.K.C.	REVISED -
PLOT DATE =	DRAWN - R.D.A.	REVISED -
	CHECKED - B.S.K.	REVISED -

BUREAU COUNTY
TR 240 OVER PLOW HOLLOW CREEK
STATION 15 + 00

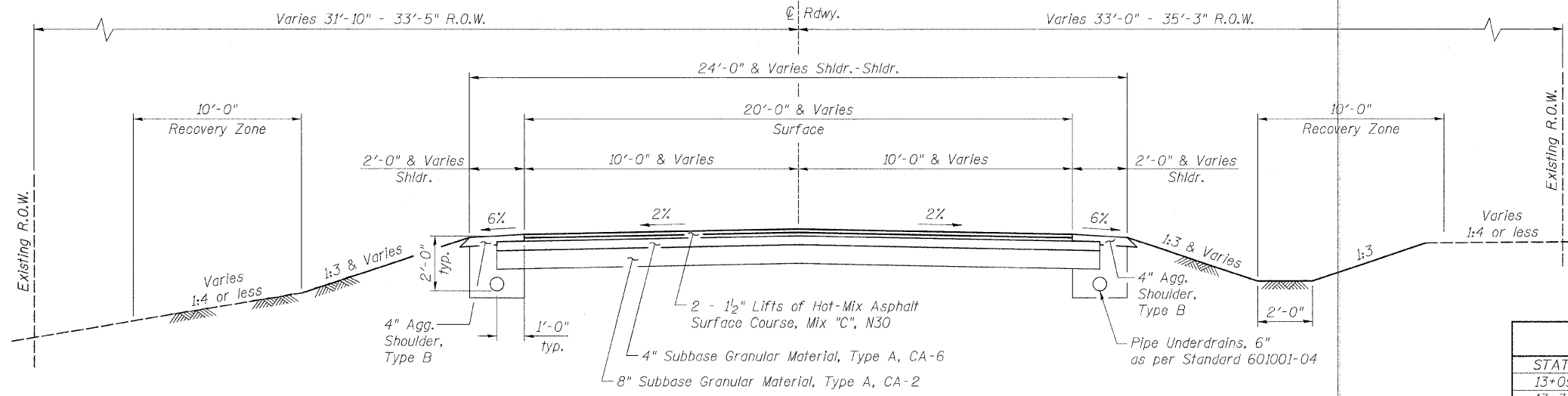
GENERAL NOTES AND DETAILS
STRUCTURE NO. 006-4012

STA. 12+00 TO STA. 18+00

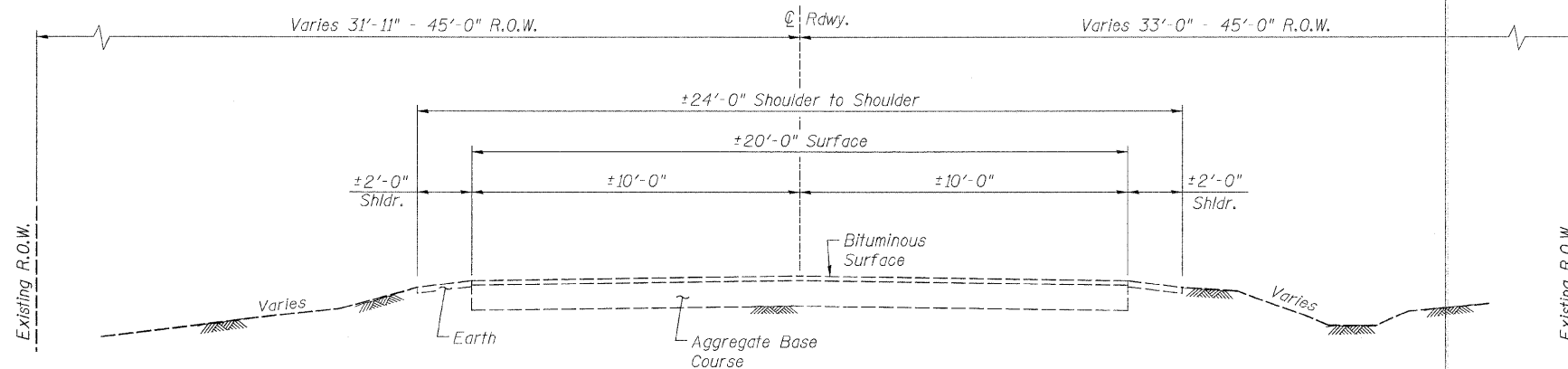
TWP. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
240	10-01121-00-BR	BUREAU	23	4
WHA* 1285D10		CONTRACT NO. 87483		
ILLINOIS FED. AID PROJECT BROS-0011(075)				



PROPOSED ROADWAY TYPICAL SECTION
STA. 13+05.61 - 17+18.11



PROPOSED ROADWAY TYPICAL SECTION
STA. 12+00.00 - 13+05.61 & STA. 17+18.11 - 18+00.00



EXISTING ROADWAY TYPICAL SECTION
 (Looking North)

TR 240 SUPERELEVATION RATES			
STATION	LEFT SUPER	RIGHT SUPER	REMARKS
13+05.61	-2.00%	-2.00%	Normal Crown
13+36.61	0.00%	-2.00%	
13+67.61	2.00%	-2.00%	Full Super
13+82.61	3.00%	-3.00%	Max. Super
16+41.11	3.00%	-3.00%	Max. Super
16+56.11	2.00%	-2.00%	Full Super
16+87.11	0.00%	-2.00%	
17+18.11	-2.00%	-2.00%	Normal Crown

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USER NAME =	DESIGNED - B.S.K.	REVISED -
PLOT SCALE =	CHECKED - B.K.C.	REVISED -
PLOT DATE =	DRAWN - R.D.A.	REVISED -
	CHECKED - B.S.K.	REVISED -

BUREAU COUNTY
TR 240 OVER PLOW HOLLOW CREEK
STATION 15 + 00

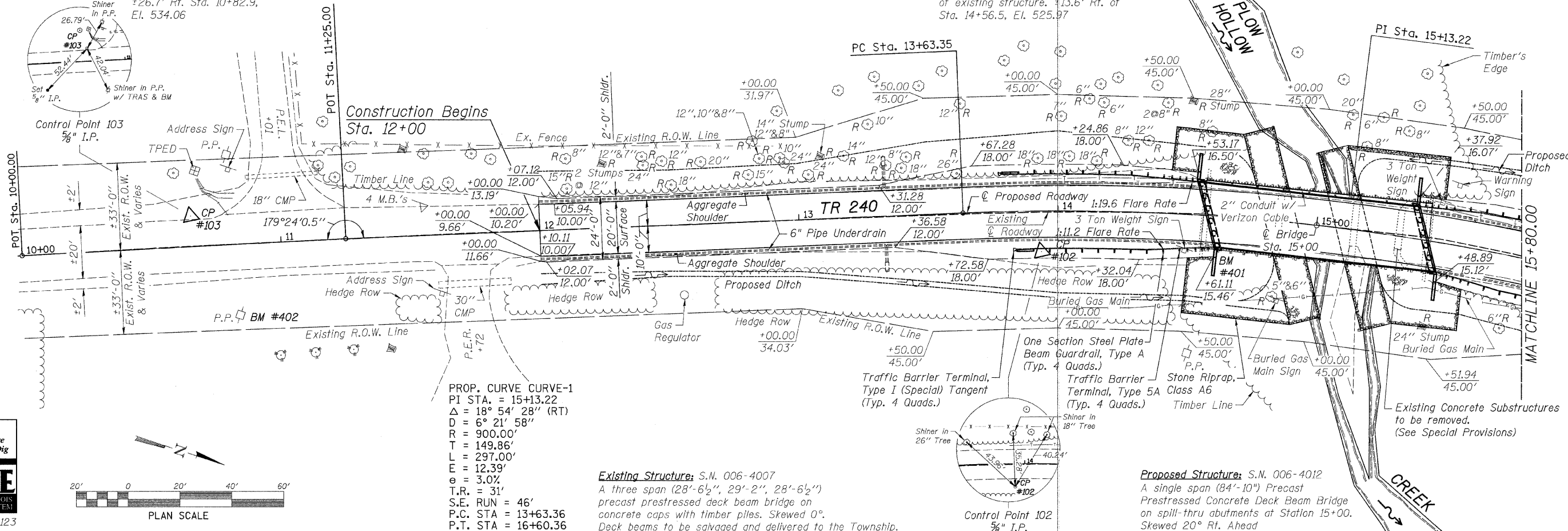
TYPICAL SECTIONS
STRUCTURE NO. 006-4012

STA. 12+00 TO STA. 18+00

TWP. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
240	10-01121-00-BR	BUREAU	23	5
WHA* 1285D10		CONTRACT NO. 87483		
ILLINOIS FED. AID PROJECT BR05-0011(075)				

Bench Mark #402: RR spike in PP w/transformer.
 ±26.7' Rt. Sta. 10+82.9,
 El. 534.06

Bench Mark #401: Chiseled "C" on southeast wingwall
 of existing structure. ±13.6' Rt. of
 Sta. 14+56.5, El. 525.97

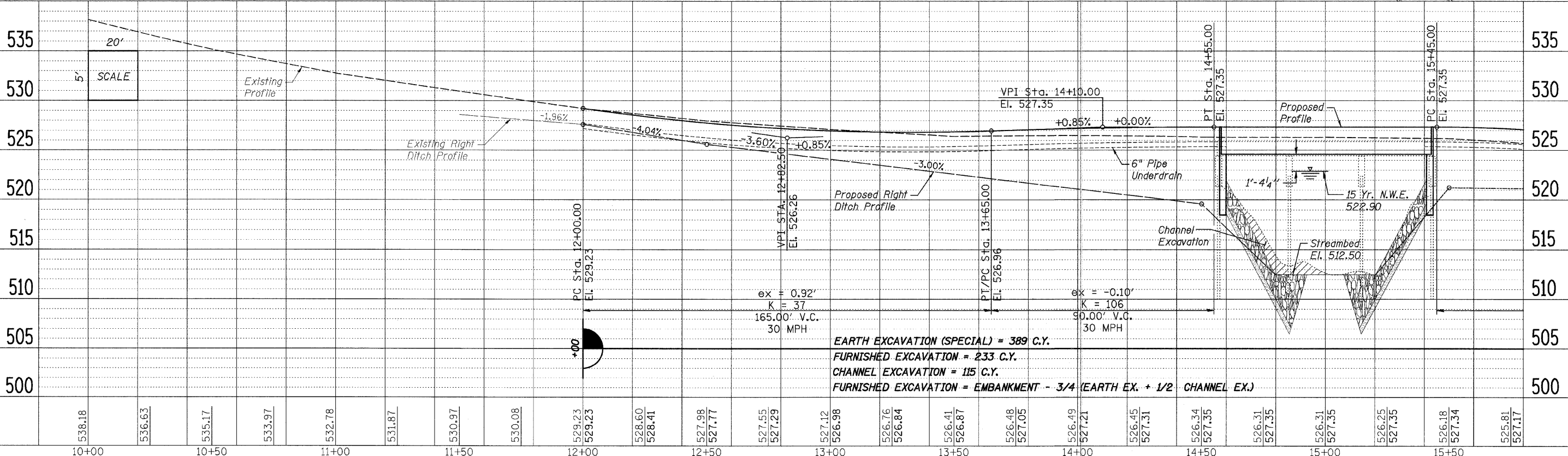
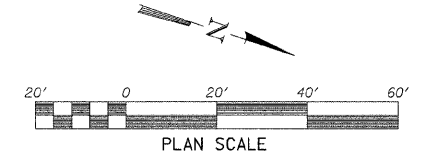


Construction Begins Sta. 12+00

PROP. CURVE CURVE-1
 PI STA. = 15+13.22
 $\Delta = 18^\circ 54' 28''$ (RT)
 $D = 6^\circ 21' 58''$
 $R = 900.00'$
 $L = 149.86'$
 $T = 297.00'$
 $E = 12.39'$
 $e = 3.02'$
 $T.R. = 31'$
 $S.E. RUN = 46'$
 $P.C. STA = 13+63.36$
 $P.T. STA = 16+60.36$

Existing Structure: S.N. 006-4007
 A three span (28'-6 1/2", 29'-2", 28'-6 1/2")
 precast prestressed deck beam bridge on
 concrete caps with timber piles. Skewed 0°.
 Deck beams to be salvaged and delivered to the Township.

Proposed Structure: S.N. 006-4012
 A single span (84'-10") Precast
 Prestressed Concrete Deck Beam Bridge
 on spill-thru abutments at Station 15+00.
 Skewed 20° Rt. Ahead



EARTH EXCAVATION (SPECIAL) = 389 C.Y.
FURNISHED EXCAVATION = 233 C.Y.
CHANNEL EXCAVATION = 115 C.Y.
FURNISHED EXCAVATION = EMBANKMENT - 3/4 (EARTH EX. + 1/2 CHANNEL EX.)

538.18	536.63	535.17	533.97	532.78	531.87	530.97	530.08	529.23	528.60	528.41	527.98	527.77	527.55	527.29	527.12	526.98	526.76	526.84	526.41	526.87	526.48	527.05	526.49	527.21	526.45	527.31	526.34	527.35	526.31	527.35	526.25	527.35	526.18	527.34	525.81	527.17
10+00	10+50	11+00	11+50	12+00	12+50	13+00	13+50	14+00	14+50	15+00	15+50																									

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PLOT DATE =	DRAWN - R.D.A.	REVISED -
	CHECKED - B.S.K.	REVISED -

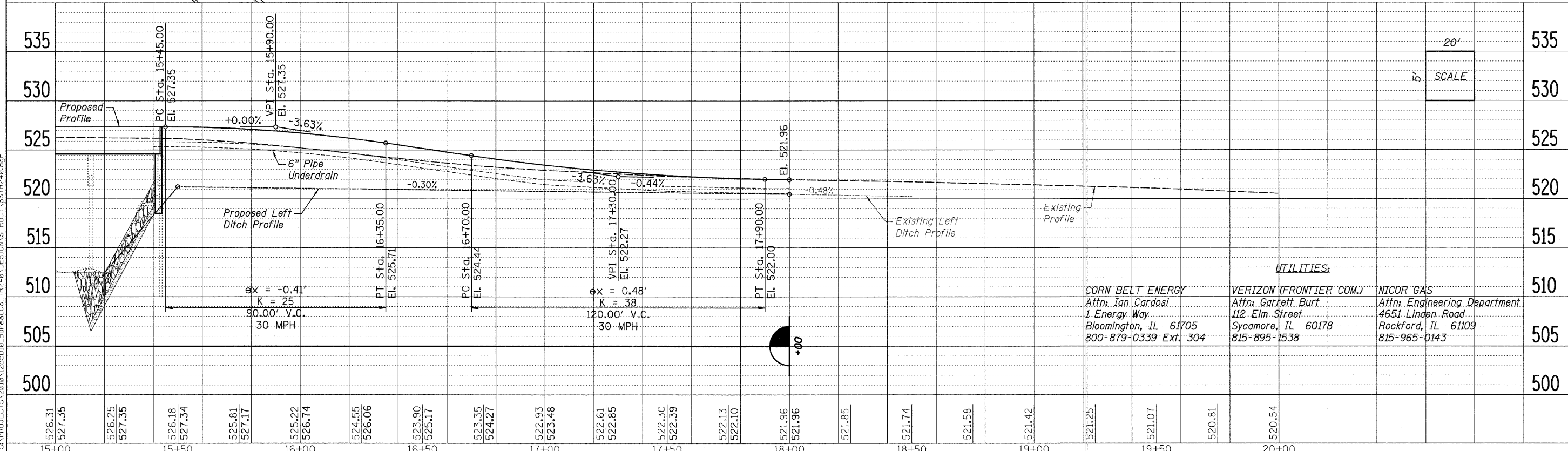
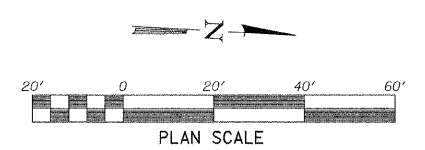
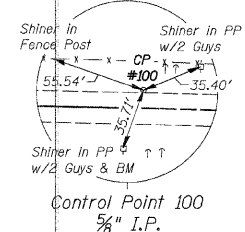
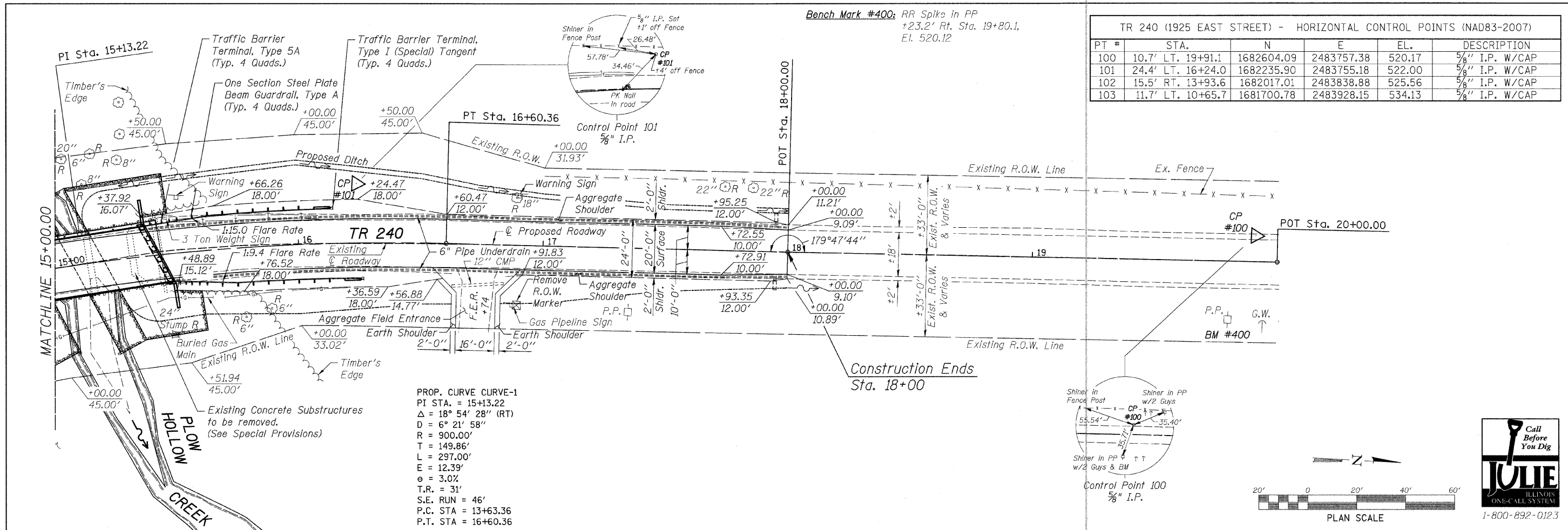
**BUREAU COUNTY
 TR 240 OVER PLOW HOLLOW CREEK
 STATION 15 + 00**

**PLAN AND PROFILE
 STRUCTURE NO. 006-4012
 STA. 10+00 TO STA. 15+80**

TWP. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
240	10-01121-00-BR	BUREAU	23	6
WHA# 1285010		CONTRACT NO. 87483		
ILLINOIS FED. AID PROJECT BROS-0011(075)				

FILE NAME = S:\PROJECTS\2010\1285010\BureauCo_Tri240\DESIGN\STRUCT\pp TR240.dgn

TR 240 (1925 EAST STREET) - HORIZONTAL CONTROL POINTS (NAD83-2007)					
PT #	STA.	N	E	EL.	DESCRIPTION
100	10.7' LT. 19+91.1	1682604.09	2483757.38	520.17	5/8" I.P. W/CAP
101	24.4' LT. 16+24.0	1682235.90	2483755.18	522.00	5/8" I.P. W/CAP
102	15.5' RT. 13+93.6	1682017.01	2483838.88	525.56	5/8" I.P. W/CAP
103	11.7' LT. 10+65.7	1681700.78	2483928.15	534.13	5/8" I.P. W/CAP



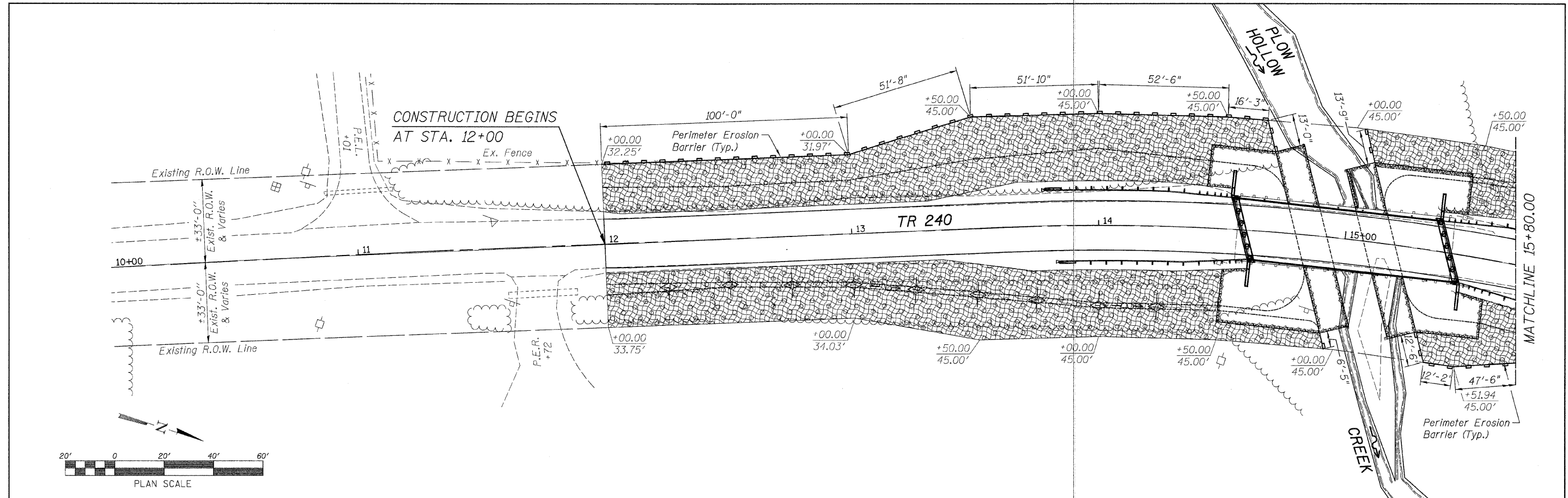
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PLOT SCALE =	CHECKED - B.K.C.	REVISED -
PLOT DATE =	DRAWN - R.D.A.	REVISED -
	CHECKED - B.S.K.	REVISED -

**BUREAU COUNTY
 TR 240 OVER PLOW HOLLOW CREEK
 STATION 15 + 00**

**PLAN AND PROFILE
 STRUCTURE NO. 006-4012
 STA. 15+00 TO STA. 20+00**

TWP. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
240	10-01121-00-BR	BUREAU	23	7
WHA# 1285010		CONTRACT NO. 87483		
ILLINOIS FED. AID PROJECT BROS-0011(075)				



STORM WATER POLLUTION PREVENTION PLAN

The following plan is established and incorporated in the project to direct the contractor in the placement of temporary erosion control systems and to provide a storm sewer water pollution prevention plan for compliance under NPDES.

The purpose of this plan is to minimize erosion within the construction site and to limit sediments from leaving the construction site by utilizing proper temporary erosion control systems and providing ground cover within a reasonable amount of time.

Certain erosion control facilities shall be installed by the contractor at the beginning of construction, other items shall be installed by the contractor as directed by the engineer on a case by case situation depending on the contractor's sequence of activities, time of year, and expected weather conditions.

The contractor shall install permanent erosion control systems and seeding within a time frame specified herein and as directed by the engineer, therefore minimizing the amount of area susceptible to erosion and reducing the amount of temporary seeding. The engineer will determine if any temporary erosion control systems shown in the plan can be deleted and if any additional temporary erosion control systems, which are not included in this plan, shall be added. The contractor shall perform all work as directed by the engineer and as shown in Standard 280001 of the plans.

Section 280, Temporary Erosion Control, of the Standard Specifications additionally supplements this plan.

SITE DESCRIPTION

- DESCRIPTION OF CONSTRUCTION ACTIVITY:**
- The project consists of bridge replacement on T.R. 240 over Plow Hollow Creek & approach roadway work thereto.
 - Construction includes pavement removal, earth excavation, entrances, channel excavation, various pavement items, bridge items and other miscellaneous items of construction.

DESCRIPTION OF INTENDED SEQUENCE FOR MAJOR CONSTRUCTION ACTIVITIES WHICH WILL DISTURB SOILS FOR MAJOR PORTIONS OF THE CONSTRUCTION SITE:

- Pavement removal and earth excavation
- Channel excavation
- Furnished excavation
- Aggregate base, bituminous surface and related appurtenances
- Placement of permanent erosion control, including seeding

AREA OF CONSTRUCTION SITE:

The total area of the construction site is estimated to be 1.08 acres of which 0.79 acres will be disturbed by excavation, grading, and other activities.

OTHER REPORTS, STUDIES AND PLANS WHICH AID IN THE DEVELOPMENT OF THE STORM WATER POLLUTION PREVENTION PLAN AS REFERENCED DOCUMENTS:

- Information of the soils and terrain within the site was obtained from soil borings that were utilized for the development of the proposed temporary erosion control systems.
- Project plan documents, specifications and special provisions, and plan drawings indicating drainage patterns and approximate slopes anticipated after grading activities were utilized for the proposed placement of the temporary erosion control systems.

CONTROLS - EROSION CONTROLS AND SEDIMENT CONTROL
DESCRIPTION OF STABILIZATION PRACTICES AT THE BEGINNING OF CONSTRUCTION:

- The drawings, specifications and special provisions will ensure that existing vegetation is preserved where attainable and disturbed portions of the site will be stabilized. Stabilization practices include: temporary seeding, permanent seeding, perimeter erosion barrier, and other appropriate measures as directed by the engineer. Stabilization measures shall be initiated as soon as practicable in portions of the site where construction activities have temporarily or permanently ceased, but in no case more than 7 days after the construction activity in that portion of the site has temporarily or permanently ceased.
 - Areas of existing vegetation (wood and grasslands) outside the proposed construction limits shall be identified by the engineer for preserving and shall be protected from construction activities.
 - Dead, diseased, or unsuitable vegetation within the site shall be removed as directed by the engineer, along with required tree removal.
 - As soon as reasonable access is available to all locations where water drains away from the project, temporary ditch checks and perimeter erosion barrier shall be installed as called out in this plan and directed by the engineer.
 - Bare and sparsely vegetated ground in highly erodible areas as determined by the engineer shall be temporarily seeded at the beginning of construction where no construction activities are expected within seven days.
 - At locations where a significant amount of water drains into the construction zone from outside areas (adjacent landowners), temporary ditch checks will be utilized to locally divert water, reduce flow rates, and collect outside siltation inside the right-of-way line.
- Establishment of these temporary erosion control measures will have additional benefits to the project, desirable grass seed will become established in these areas and will spread seeds onto the construction site until permanent seeding/mowing and over seeding can be completed.

DESCRIPTION OF STABILIZATION PRACTICES DURING CONSTRUCTION:

- During construction, areas outside the construction limits as outlined previously herein shall be protected, the contractor shall not use this area for staging (except as described on the plans and directed by the engineer), parking of vehicles or construction equipment, storage of materials, or other construction related activities.
 - Within the construction limits, areas which may be susceptible to erosion as determined by the engineer shall remain undisturbed until full scale construction is underway to prevent unnecessary soil erosion.
 - Earth stockpiles shall be temporarily seeded if they are to remain unused for more than fourteen days.
 - As construction proceeds, the contractor shall institute the following as directed by the engineer:
 - Place temporary erosion control facilities at locations shown on the plans.
 - Temporarily seed erodible bare earth on a weekly basis to minimize the amount of erodible surface area within the contract limits.
 - Excavated areas and embankment shall be permanently seeded immediately after final grading. If not, they shall be temporarily seeded if no construction activity in the area is planned for 7 days.
 - Construction equipment shall be stored and fueled only at designated locations, all necessary measures shall be taken to contain any fuel or other pollutant in accordance with EPA water quality regulations, leaking equipment or supplies shall be immediately repaired or removed from the site.
 - The resident engineer shall inspect the project daily during construction activities. Inspection shall also be done weekly and after rains of 1/2 inch or greater or equivalent snowfall and during the winter shutdown period. The project shall additionally be inspected by the construction field engineer on a bi-weekly basis to determine that erosion control efforts are in place and effective and if other erosion control work is necessary.

- Sediment collected during construction of the various temporary erosion control systems shall be disposed of on the site on a regular basis as directed by the engineer. The cost of this maintenance shall be included in the unit bid price for earth excavation.
- The temporary erosion control systems shall be removed as directed by the engineer after use is no longer needed or no longer functioning. The cost of this removal shall be included in the unit bid price for various temporary erosion control pay items.

DESCRIPTION OF STRUCTURAL PRACTICES AFTER FINAL GRADING

- Temporary erosion control systems shall be left in place with proper maintenance until permanent erosion control is in place and working properly and all proposed turf areas seeded and established.
- Once permanent erosion control systems as proposed in the plans are functional and established, temporary items shall be removed, cleaned up, and disturbed turf reseeded.

MAINTENANCE AFTER CONSTRUCTION

- Construction is complete after acceptance by IDOT final inspection. Maintenance up to this date will be by the contractor.

MISCELLANEOUS:

- Temporary erosion control seeding shall be applied at a rate of 100 lbs. /acres.
- Temporary ditch checks shall comply with section 280 of the Standard Specifications for Road and Bridge Construction and Standard 280001-05 located in the plans. Temporary ditch checks shall be aggregate.
- All erosion control products furnished shall be specifically recommended by the manufacturer for the use specified in the erosion control plan, prior to the approval and use of the product, the contractor shall submit to the engineer a notarized certification by the producer stating the intended use of the product and that the physical properties required for this application are met or exceeded. The contractor shall provide manufacturer installation procedures to facilitate the engineer in construction inspection.

This plan has been prepared to comply with the provisions of the NPDES permit number ILR10, issued by the Illinois Environmental Protection Agency for storm water discharges from construction site activities.

Call Before You Dig

1-800-892-0123

LEGEND

- Perimeter Erosion Barrier
- Seeding, Class 3 (Special)
- Temporary Aggregate Ditch Checks
- Erosion Control Blanket

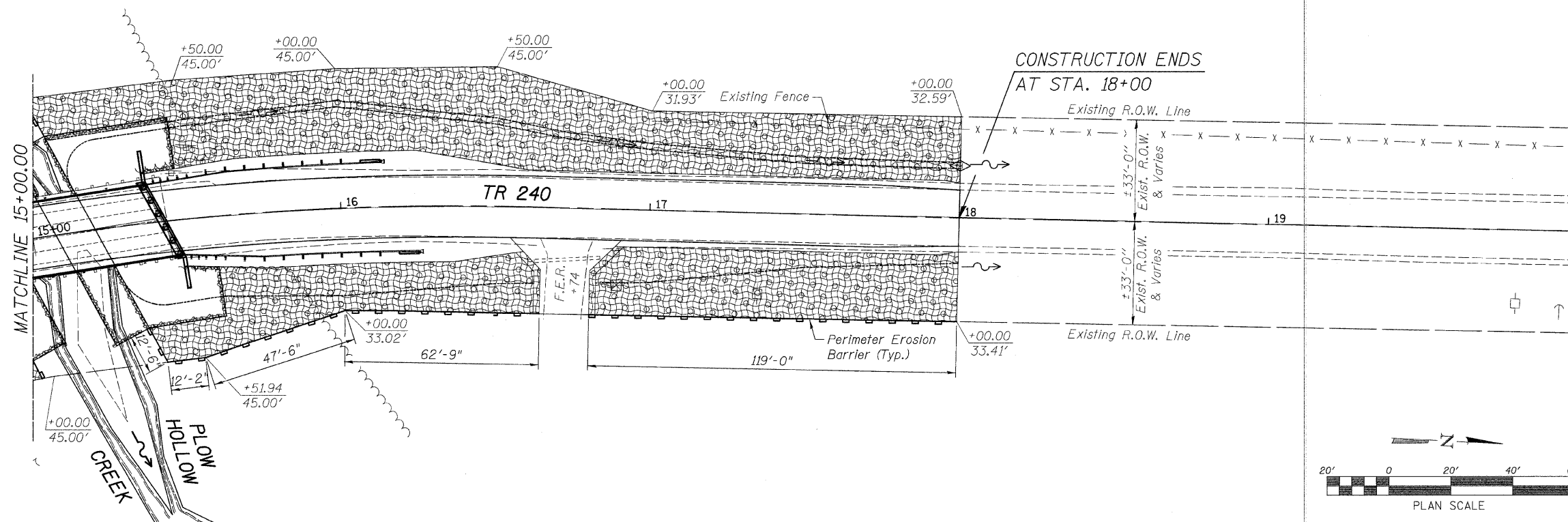
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	CHECKED - B.S.K.	REVISED -

BUREAU COUNTY
TR 240 OVER PLOW HOLLOW CREEK
STATION 15 + 00

EROSION CONTROL PLAN
STRUCTURE NO. 006-4012
STA. 10+00 TO STA. 15+80

TWP. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
240	10-01121-00-BR	BUREAU	23	8
WHA# 1285D10		CONTRACT NO. 87483		
ILLINOIS FED. AID PROJECT BROS-0011075				



EROSION CONTROL NOTES

The soil erosion and sediment control practices will be inspected weekly and after 1/2" of rain or more by the individual on site in charge of soil erosion and sediment control during the construction of the project.

Perimeter erosion barrier shall comply with Section 280 of the Standard Specifications and shall be placed as shown on the Erosion Control Plan and in accordance with stations shown on the Schedule of Quantities sheet or as directed by the Engineer.

Silt fence shall be installed following the completion and stabilization of all areas adjacent to the on-site drainages, the silt fence will remain in place until the contributing area is stabilized.

For Seeding, Class 3 (special) see Special Provisions.

Erosion control blanket shall be placed in ditches and to all disturbed areas as shown on this Erosion Control Plan sheet and in accordance with Section 251 of the Standard Specifications for Road and Bridge Construction.

The use of green dye in the erosion control blanket is not acceptable.

The use of asphalt as a binder is not acceptable.

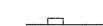
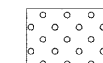
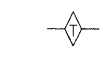
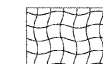
Temporary ditch checks shall comply with Section 280 of the Standard Specifications for Road and Bridge Construction and Standard 280001-05 located in the plans. Temporary ditch checks shall be aggregate.

Temporary ditch checks shall be placed at stations called out in the Schedule of Quantities or as directed by the Engineer.

Stockpiles of soil and other building materials to remain in place more than three (3) days shall be furnished with erosion and sediment control measures (i.e. perimeter silt fence). stockpiles to remain in place for 14 days or more shall receive temporary seeding.

All adjacent streets must be kept clear of debris, inspected daily and cleaned when necessary.

LEGEND

-  Perimeter Erosion Barrier
-  Seeding, Class 3 (Special)
-  Temporary Aggregate Ditch Checks
-  Erosion Control Blanket

BILL OF MATERIAL

Item	Unit	Quantity
Erosion Control Blanket	Sq. Yd.	2,814
Temporary Ditch Checks	Foot	87
Perimeter Erosion Barrier	Foot	559
Seeding, Class 3 (Special)	Acre	0.59



1-800-892-0123

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BUREAU COUNTY
TR 240 OVER PLOW HOLLOW CREEK
STATION 15+00

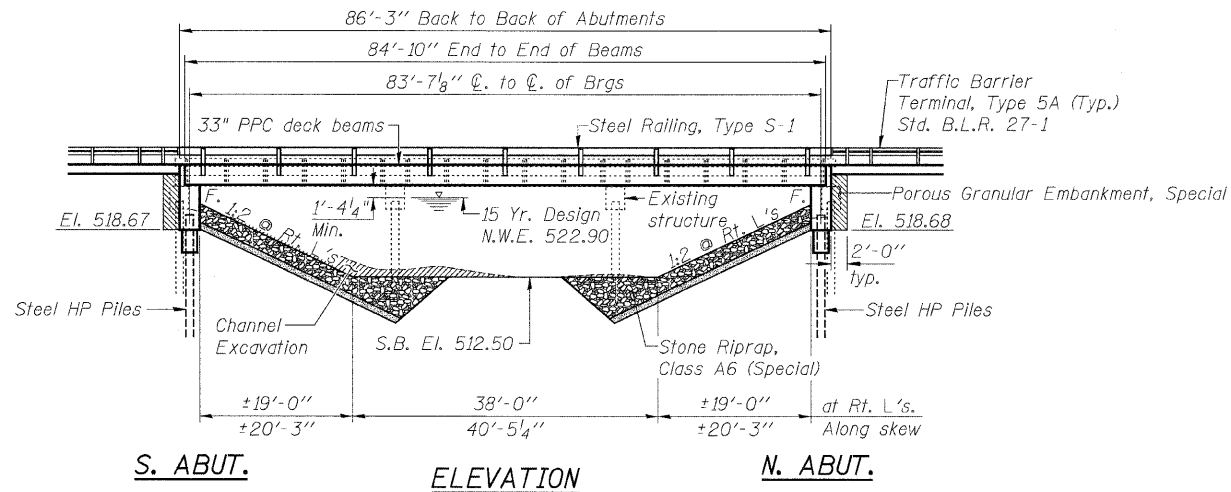
EROSION CONTROL PLAN
STRUCTURE NO. 006-4012

STA. 15+00 TO STA. 20+00

TWP. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
240	10-01121-00-BR	BUREAU	23	9
WHA# 1285010			CONTRACT NO. 87483	
ILLINOIS FED. AID PROJECT BR05-0011(075)				

EXISTING STRUCTURE: S.N. 006-4007
Originally built in 1978 as Twp. Route 240, Section 77-0114-00-BR. The existing structure is a three span (28'-6 1/2", 29'-2", 28'-6 1/2") precast, prestressed concrete deck beam structure. 88'-9" back to back of abutments and 26'-0" out to out of deck. Structure to be removed and replaced. Road shall be closed to traffic during construction. Deck beams to be salvaged and delivered to Township.

BENCH MARK: Chiseled "□" on southeast wingwall of existing structure. +13.6' Rt. of Sta. 14+56.5, El. 525.97



INDEX OF SHEETS

- 1 General Plan and Elevation
- 2 Riprap & Pile Layout
- 3-4 33" x 48" PPC Deck Beam Details
- 5 South Abutment Details
- 6 North Abutment Details
- 7 Steel Railing, Type S1 Details
- 8 HP Pile Details
- 9 Boring Logs

PLow Hollow Creek
BUILT 2011 BY
BUREAU COUNTY
SECTION 10-01121-00-BR
TWP RTE 240 STATION 15+00
STR. NO. 006-4012 LOADING HL-93

NAME PLATE LETTERING
Refer To Std. 515001-03

BILL OF MATERIAL - BRIDGE

ITEM	UNIT	SUPER	SUB	TOTAL
Channel Excavation	Cu. Yd.		115	115
Removal of Existing Structures	Each		1	1
Concrete Structures	Cu. Yd.		45.8	45.8
Concrete Encasement	Cu. Yd.		4.2	4.2
Precast Prestressed Concrete Deck Beams (33" Depth)	Sq. Ft.	2,036		2,036
Reinforcement Bars	Pound		5,480	5,480
Steel Railing, Type S1	Foot	173		173
Furnishing Steel Piles HP12x63	Foot		260	260
Driving Piles	Foot		260	260
Test Pile Steel HP12x63	Each		2	2
Name Plates	Each		1	1
* Porous Granular Embankment, Special	Ton		100	100
* Stone Riprap, Class A6 (Special)	Ton		909	909

GENERAL NOTES

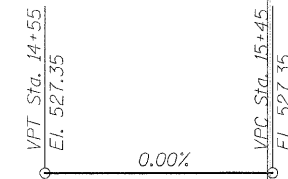
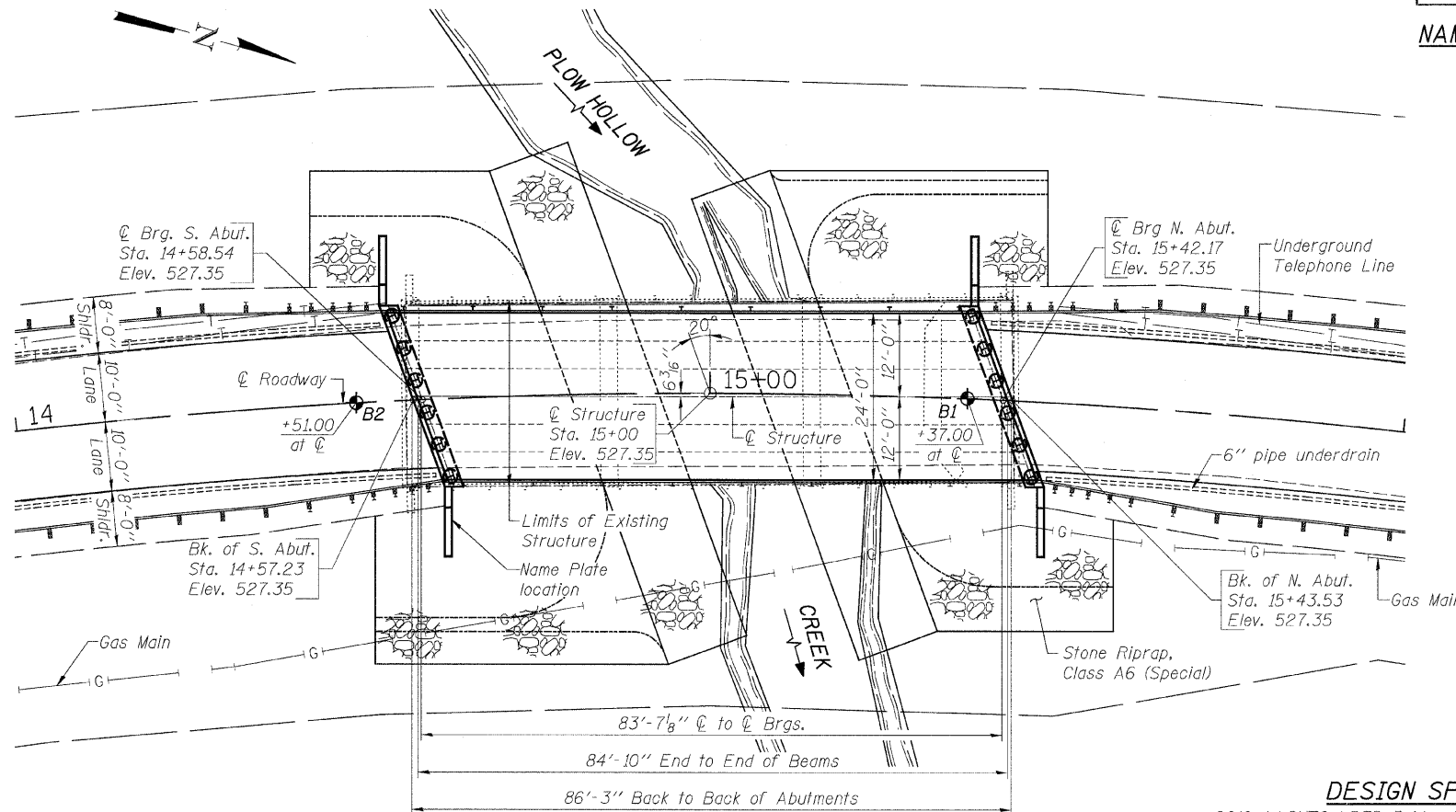
Reinforcement bars shall conform to the requirements of ASTM A 706 Gr 60. See Special Provisions

Layout of the slope protection system may be varied to suit ground conditions in the field as directed by the Engineer.

If the existing piles interfere with the proposed pile locations, the Engineer shall be notified and approve any adjustment in pile spacing.

All excavation required, below the proposed riprap line, for the placement of the riprap and bedding shall be considered incidental to the pay item Stone Riprap, Class A6 (Special).

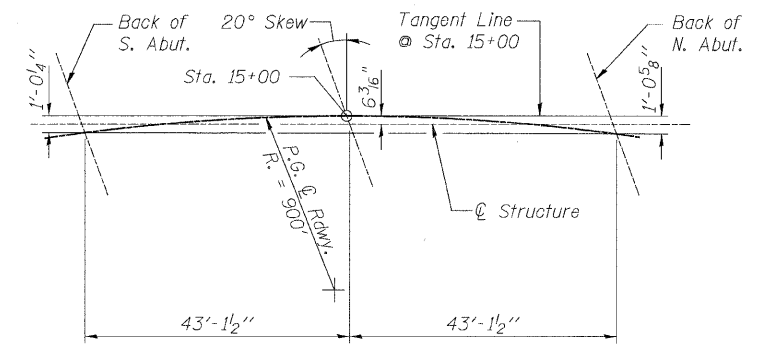
* See Special Provisions.



VERTICAL CURVE
Along Roadway C/L

HORIZONTAL CURVE DATA

PI Sta. = 15+13.22
Δ = 18° 54' 28" (Rt.)
D = 6° 21' 58"
R = 900.00'
T = 149.86'
L = 297.00'
E = 12.39'
e = 3.0%
T.R. = 31'
S.E. run = 46'
P.C. Sta. = 13+63.36
P.T. Sta. = 16+60.36



OFFSET SKETCH

WATERWAY INFORMATION

Drainage Area = 8.74 sq. mi. Low Grade Elev. 521.96 @ Sta. 18+00

Flood	Freq. Yr.	Q C.F.S.	Opening Sq. Ft.		Nat. H.W.E.	Head - Ft.		Headwater El.	
			Exist.	Prop.		Exist.	Prop.	Exist.	Prop.
Design	15	3,150	603	607	522.90	0.36	0.35	523.26	523.25
Base	100	5,330	725	739	524.64	1.82	1.62	526.46	526.26

DESIGN SCOUR ELEVATION TABLE

Design Scour Elevation (ft.)	S. Abut.	N. Abut.
	518.67	518.68

LOADING HL-93

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

SEISMIC DATA

Seismic Performance Zone (SPZ) = 1
Design Spectral Acceleration at 1.0 sec. (S_{D1}) = 0.098g
Design Spectral Acceleration at 0.2 sec. (S_{D5}) = 0.157g
Soil Site Class = D

DESIGN SPECIFICATIONS

2010 AASHTO LRFD Bridge Design Specifications, 5th. Edition

DESIGN STRESSES

FIELD UNITS

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

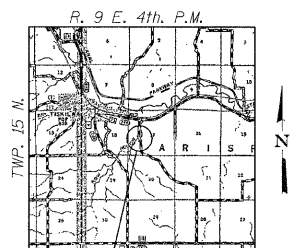
PRECAST PRESTRESSED UNITS

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



Brian K. Conner
DATE: March 31, 2011
EXPIRES 11/30/12

"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 Bridge Design Specifications."



LOCATION SKETCH

WILLETT, HOFFMANN & ASSOCIATES, INC.
CONSULTING ENGINEERS
Land Surveying - Transportation - Structural
Environmental - Architecture
809 East Second Street, Dixon, Illinois 61021
Phone 815.284.3361 Fax 815.284.3365
Design Firm #184-002919 www.willett-hoffmann.com

USER NAME =	DESIGNED -	REVISIONS -
	B.S.K.	
	B.K.C.	
	F.D.L.	
	M.A.C.	

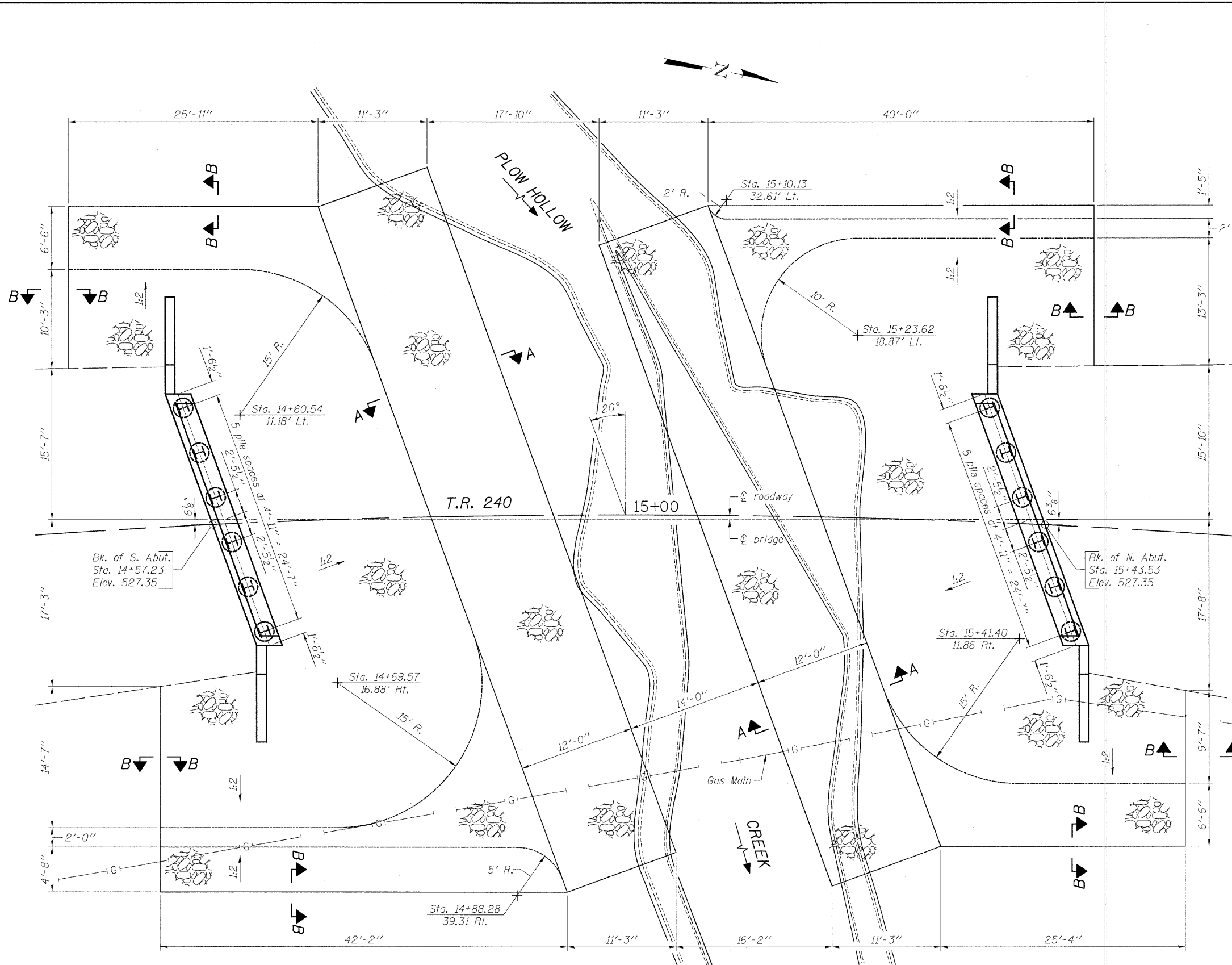
BUREAU COUNTY
T.R. 240 OVER PLOW HOLLOW CREEK
STATION 15+00

GENERAL PLAN AND ELEVATION
STRUCTURE NO. 006-4012

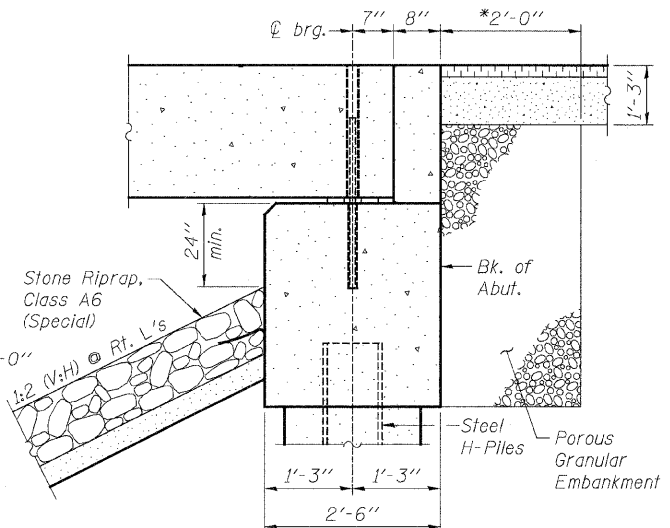
STRUCTURAL SHEET NO. 1 OF 9 SHEETS

TWP. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
240	10-01121-00-BR	BUREAU	23	10
WHA* 1285010			CONTRACT NO. 87483	
ILLINOIS FED. AID PROJECT BROS-0011(075)				

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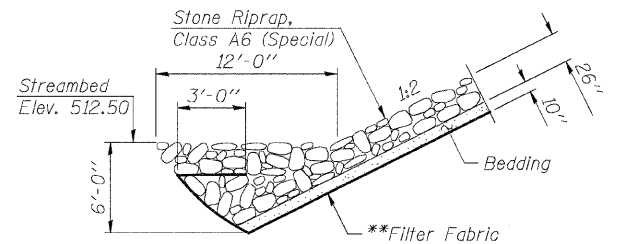


PLAN VIEW

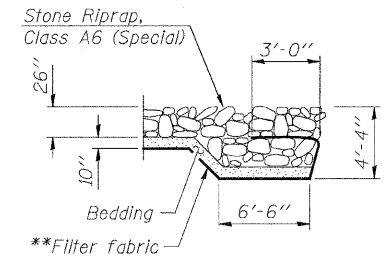


SECTION THRU ABUTMENT

(Horiz. dim. @ Rt. L's)
*Pay Limits of Porous Granular Embankment



SECTION A-A



SECTION B-B

BILL OF MATERIAL

Item	Unit	Quantity
Stone Riprap, Class A6 (Special)	Ton	909

**Included in the cost of Stone Riprap, Class A6 (Special).

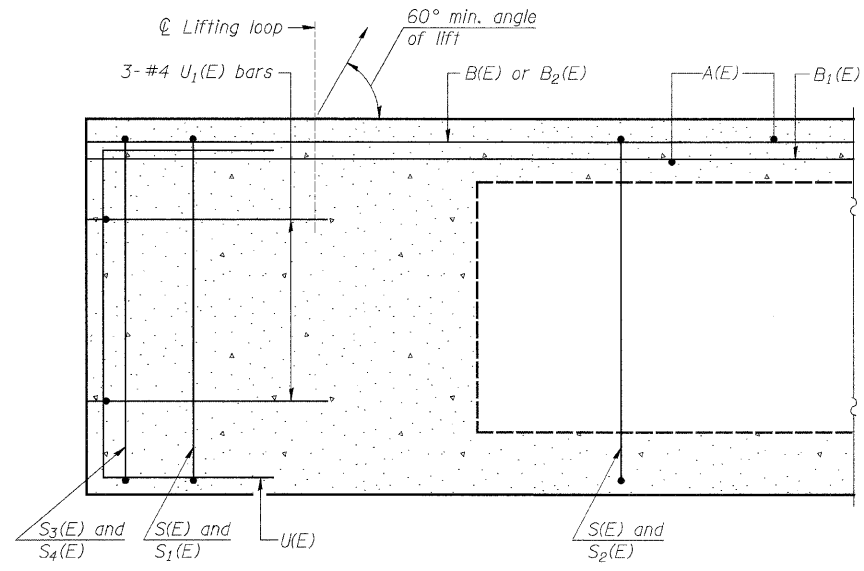
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PLOT DATE =	DRAWN - F.D.L.	REVISED -
	CHECKED - M.A.C.	REVISED -

BUREAU COUNTY
T.R. 240 OVER PLOW HOLLOW CREEK
STATION 15+00

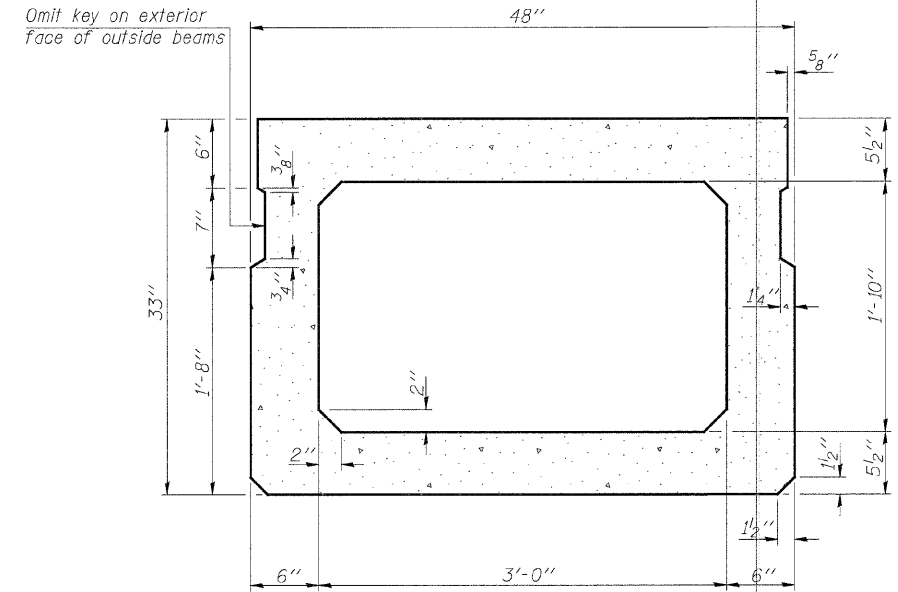
RIPRAP AND PILE LAYOUT
STRUCTURE NO. 006-4012
STRUCTURAL SHEET NO. 2 OF 9 SHEETS

TWP. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
240	10-01121-00-BR	BUREAU	23	11
WHA# 1285010		CONTRACT NO. 87483		
ILLINOIS FED. AID PROJECT BROS-0011(075)				

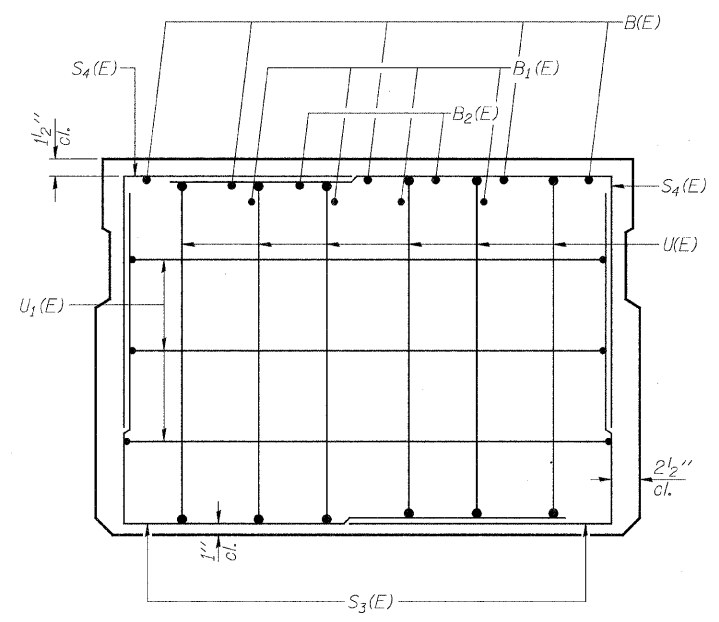
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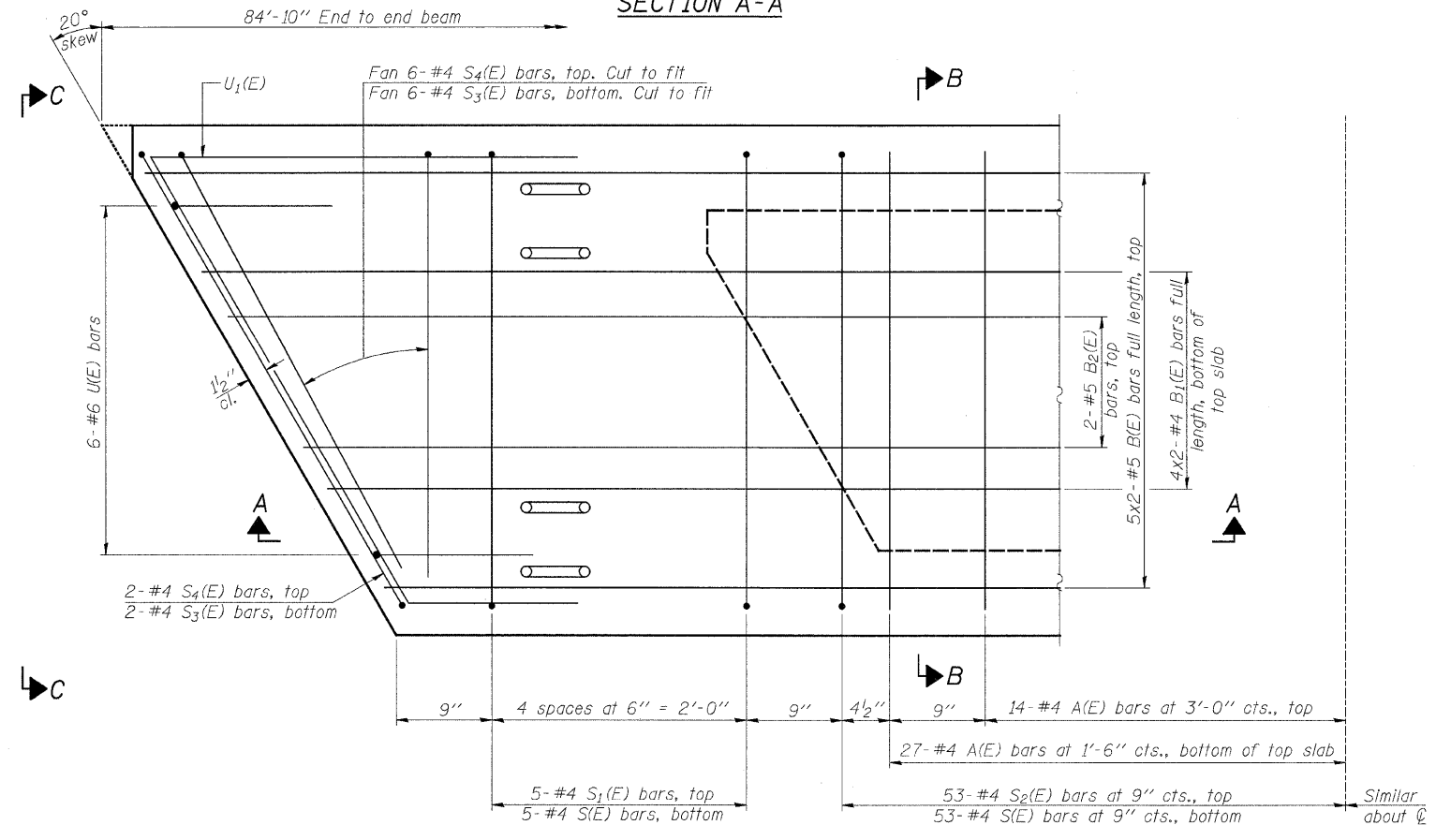
SECTION A-A



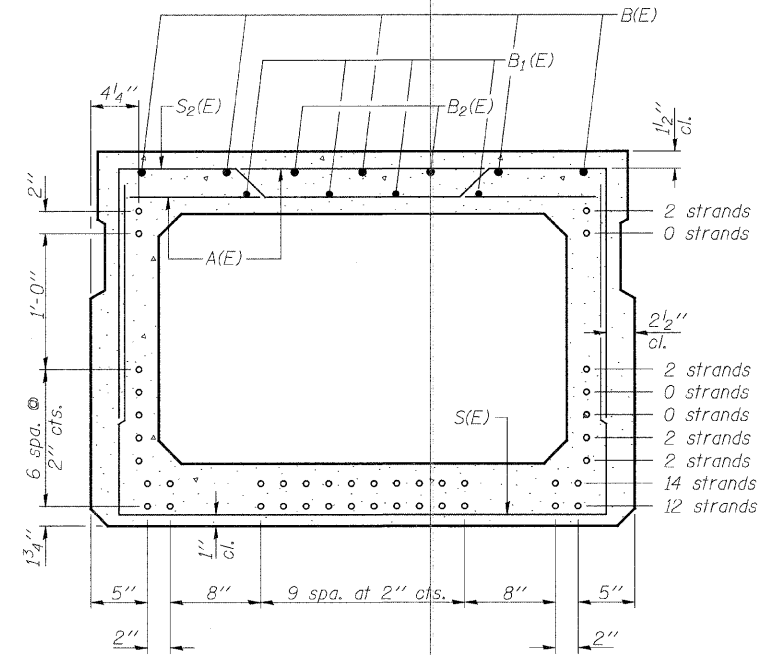
SECTION B-B
(Showing dimensions)



VIEW C-C



PLAN VIEW



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)	82	#4	3'-7"	—
B(E)	10	#5	43'-7"	—
B1(E)	8	#4	43'-4"	—
B2(E)	4	#5	10'-0"	—
S(E)	116	#4	8'-5"	┌
S1(E)	10	#4	7'-3"	┌
S2(E)	116	#4	7'-6"	┌
S3(E)	16	#4	4'-10"	┌
S4(E)	16	#4	4'-3"	┌
U(E)	12	#6	5'-0"	┌
U1(E)	6	#4	7'-6"	┌

NOTES:

See Structural Sheet 4 of 9 for additional details and Bill of Material.
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.
Bars indicated thus 5x2-#5 etc. indicates 5 lines of bars with 2 lengths per line.

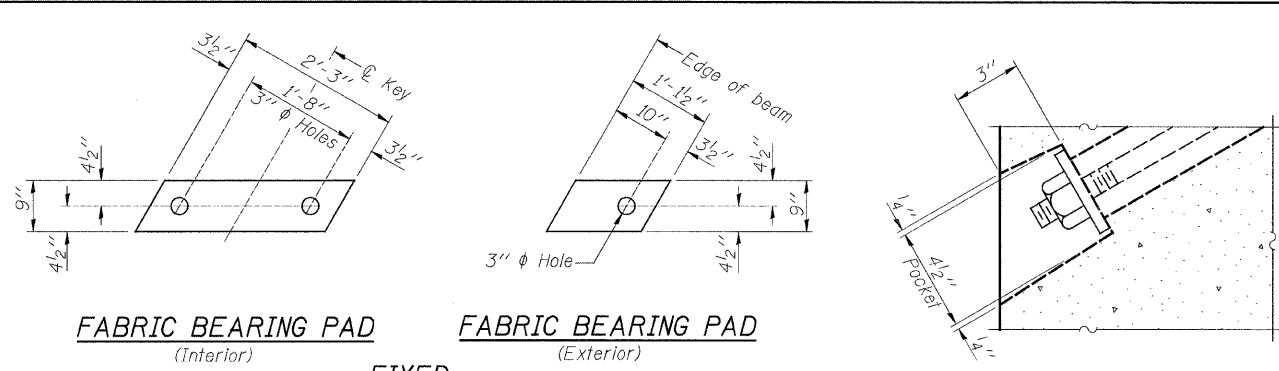
MINIMUM BAR LAP
#4 bar = 2'-0"
#5 bar = 2'-6"

USER NAME =	DESIGNED - B.S.K.	REVISED -
PLOT SCALE =	CHECKED - B.K.C.	REVISED -
PLOT DATE =	DRAWN - F.D.L.	REVISED -
	CHECKED - M.A.C.	REVISED -

BUREAU COUNTY
T.R. 240 OVER PLOW HOLLOW CREEK
STATION 15 + 00

33' x 48" PPC DECK BEAM
STRUCTURE NO. 006-4012
STRUCTURAL SHEET NO. 3 OF 9 SHEETS

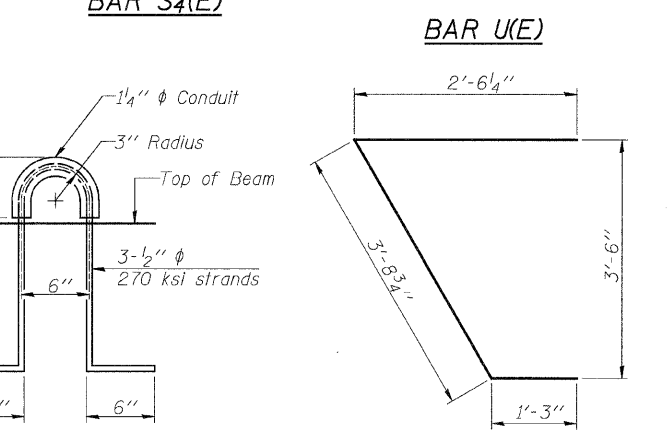
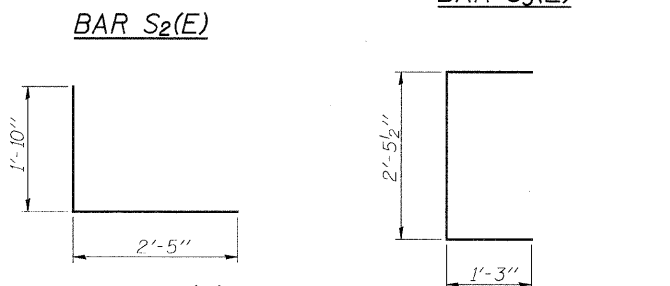
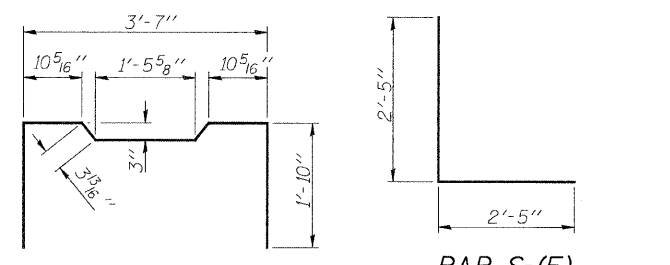
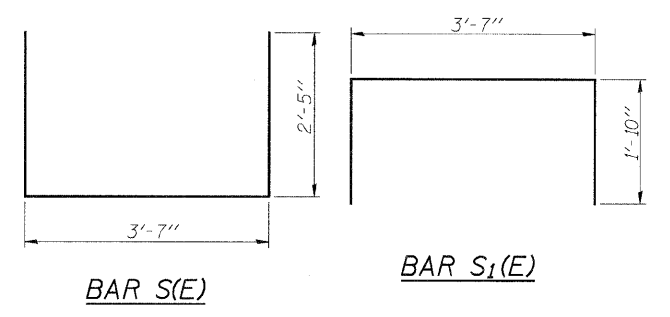
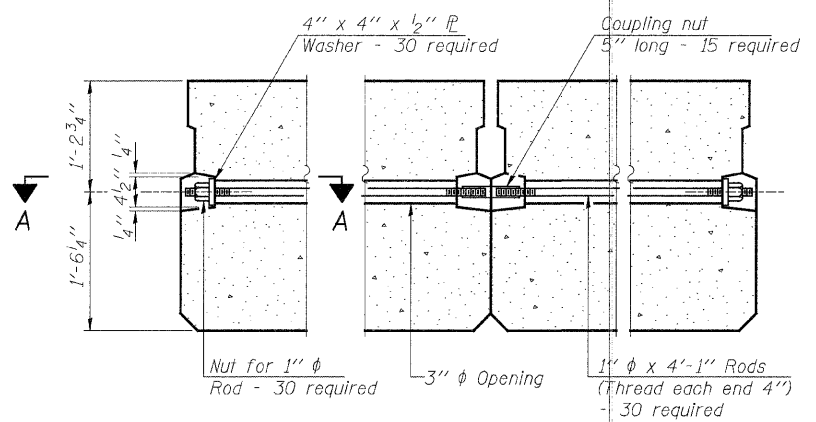
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240	10-01121-00-BR	BUREAU	23	12
WHA* 1285010		CONTRACT NO. 87483		
ILLINOIS		FED. AID PROJECT BROS 0011(075)		



FIXED

Notes:
 All bearing pads shall be 1" thick.

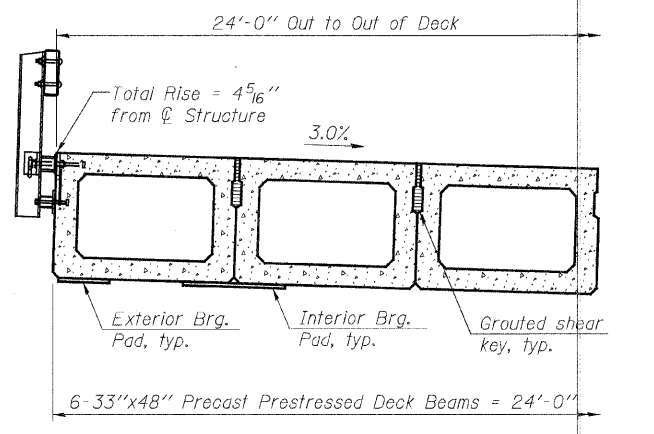
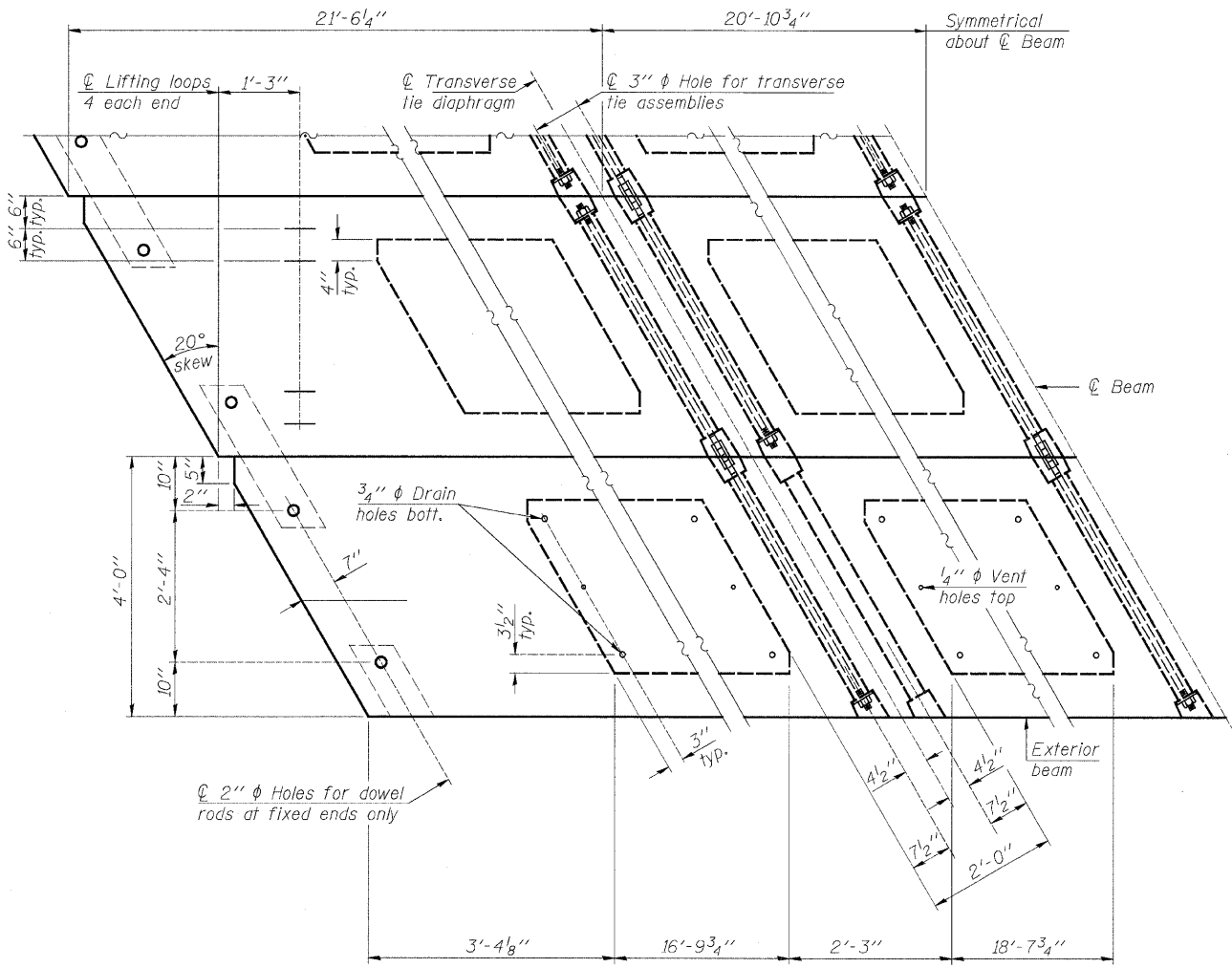
SECTION A-A



BAR U₁(E)

BILL OF MATERIAL

Item	Unit	Quantity
Precast Prestressed Concrete Deck Beams (33" Depth)	Sq. Ft.	2,036



CAMBER DIAGRAM

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" φ 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" φ 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.

Note: Connect beams in pairs with the transverse tie configuration shown.
 Unused transverse tie holes on exterior beams can be omitted.

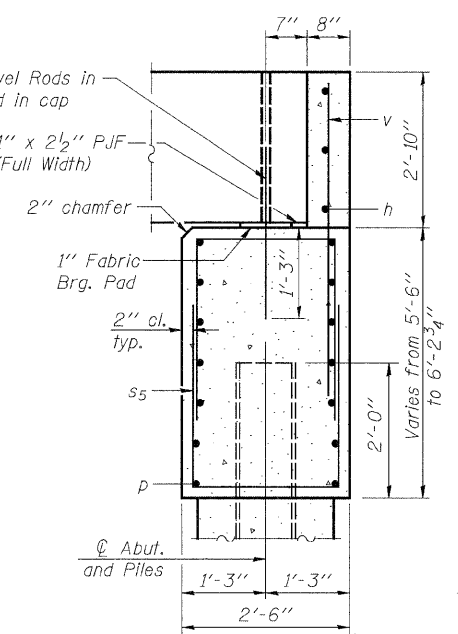
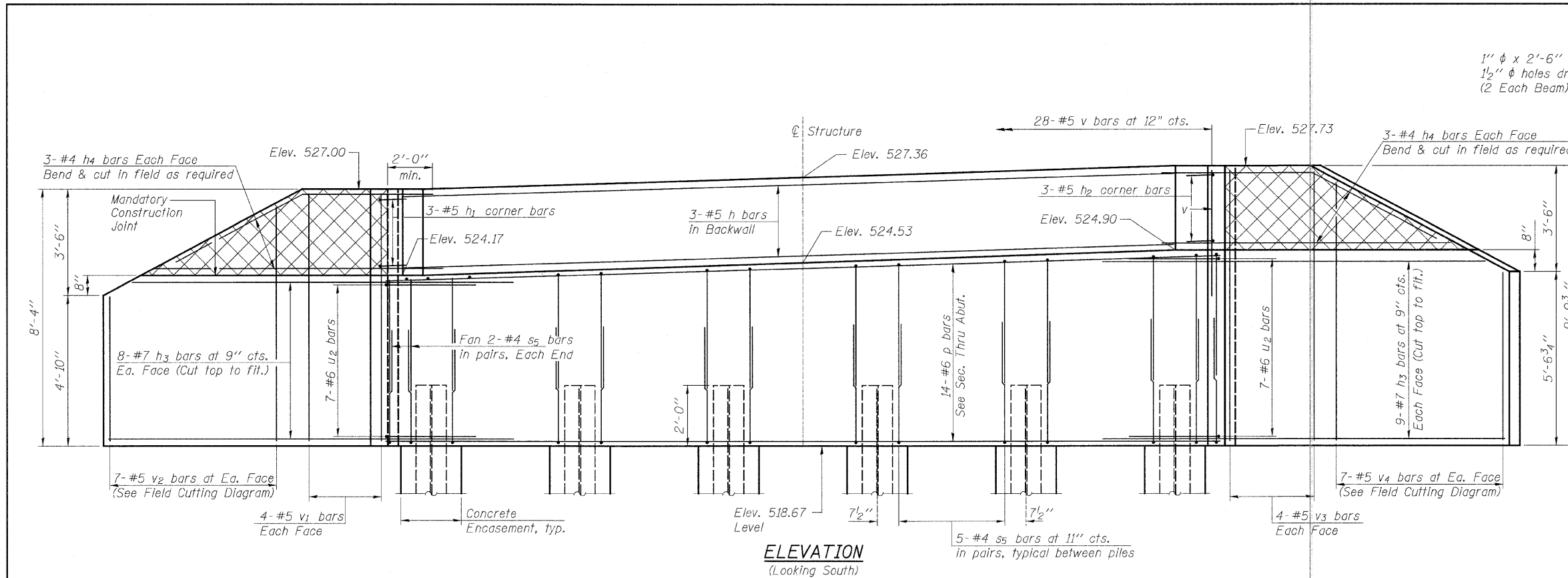
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PLOT SCALE =	CHECKED - B.K.C.	REVISED -
PLOT DATE =	DRAWN - F.D.L.	REVISED -
	CHECKED - M.A.C.	REVISED -

BUREAU COUNTY
T.R. 240 OVER PLOW HOLLOW CREEK
STATION 15 + 00

33" x 48" PPC DECK BEAM DETAILS
STRUCTURE NO. 006-4012
 STRUCTURAL SHEET NO. 4 OF 9 SHEETS

TWP. RITE. 240	SECTION 10-01121-00-BR	COUNTY BUREAU	TOTAL SHEETS 23	SHEET NO. 13
WHA# 1285D10		CONTRACT NO. 87483		
[ILLINOIS] FED. AID PROJECT BROS-0011(075)				

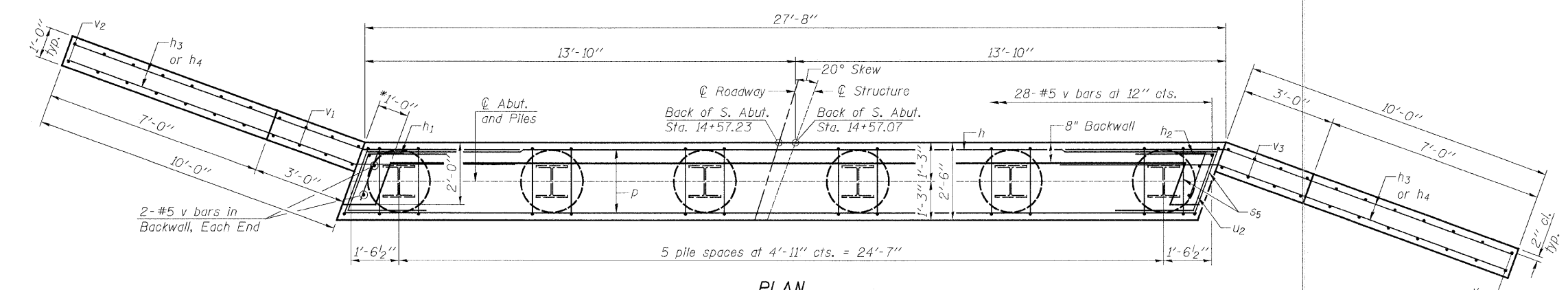


SEC. THRU ABUT.
(Dimensions are at Rt. L's)

BILL OF MATERIAL

Bar	No.	Size	Length	Shape
h	3	#5	27'-4"	—
h ₁	3	#5	3'-7"	┌
h ₂	3	#5	3'-7"	└
h ₃	34	#7	13'-7"	—
h ₄	12	#4	10'-9"	—
p	14	#6	27'-4"	—
s ₅	58	#7	9'-10"	┌
u ₂	14	#6	7'-2"	└
v	32	#5	4'-10"	—
v ₁	8	#5	8'-0"	—
v ₂	7	#5	12'-0"	—
v ₃	8	#5	8'-10"	—
v ₄	7	#5	13'-6"	—
Concrete Structures		Cu. Yd.	22.9	
Concrete Encasement		Cu. Yd.	2.1	
Reinforcement Bars		Pound	2,740	
Furnishing Steel				
Piles HP 12x63		Foot	120	
Driving Piles		Foot	120	
Test Pile Steel		Each	1	
HP 12x63				
** Porous Granular Embankment, Special		Ton	50	

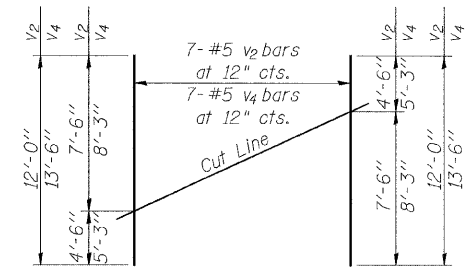
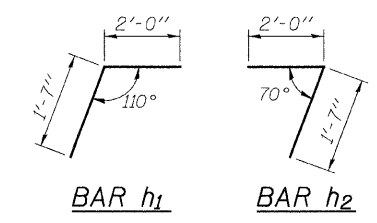
ELEVATION
(Looking South)



PLAN

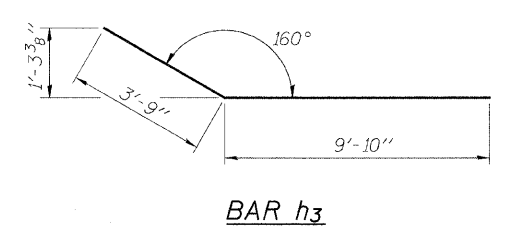
PILE DATA

Type: Steel HP 12X63
 Nominal Required Bearing: 271 k
 Factored Resistance Available: 149 k
 Est. Length: 24'
 No. Production Piles: 5
 No. Test Piles: 1 @ S.E. corner

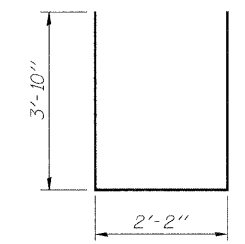


FIELD CUTTING DIAGRAM

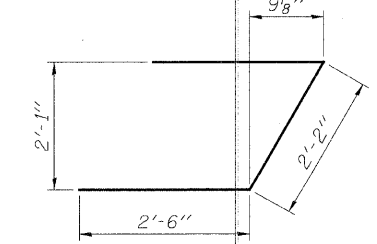
Order v₂ & v₄ full length. Cut as shown and use remainder of bars in opposite face.



BAR h₃



BARS s₅



BAR u₂

NOTES:

- Hatched portion of wingwalls to be poured with the backwall after the deck beams have been installed and grout has cured for a minimum of 24 hours.
- All exposed edges shall have standard 3/4" chamfers, except as noted.
- Space reinforcement in cap to miss dowel rods.
- After beams have been erected, holes shall be drilled into substructure and anchor dowels placed. Dowel holes shall be filled with non-shrink grout to top of beam and allowed to cure a min. of 24 hours prior to grouting the shear keys.
- For HP Pile Details see Structural Sheet 8 of 9.
- * May vary due to overrun of beams.
- ** For Drainage Details, see Structural Sheet 2 of 9.

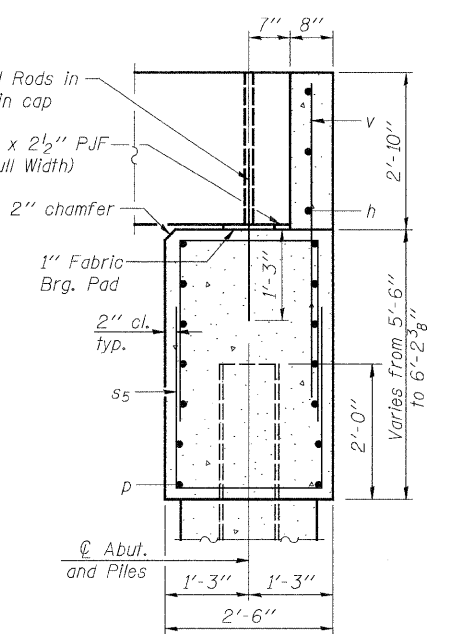
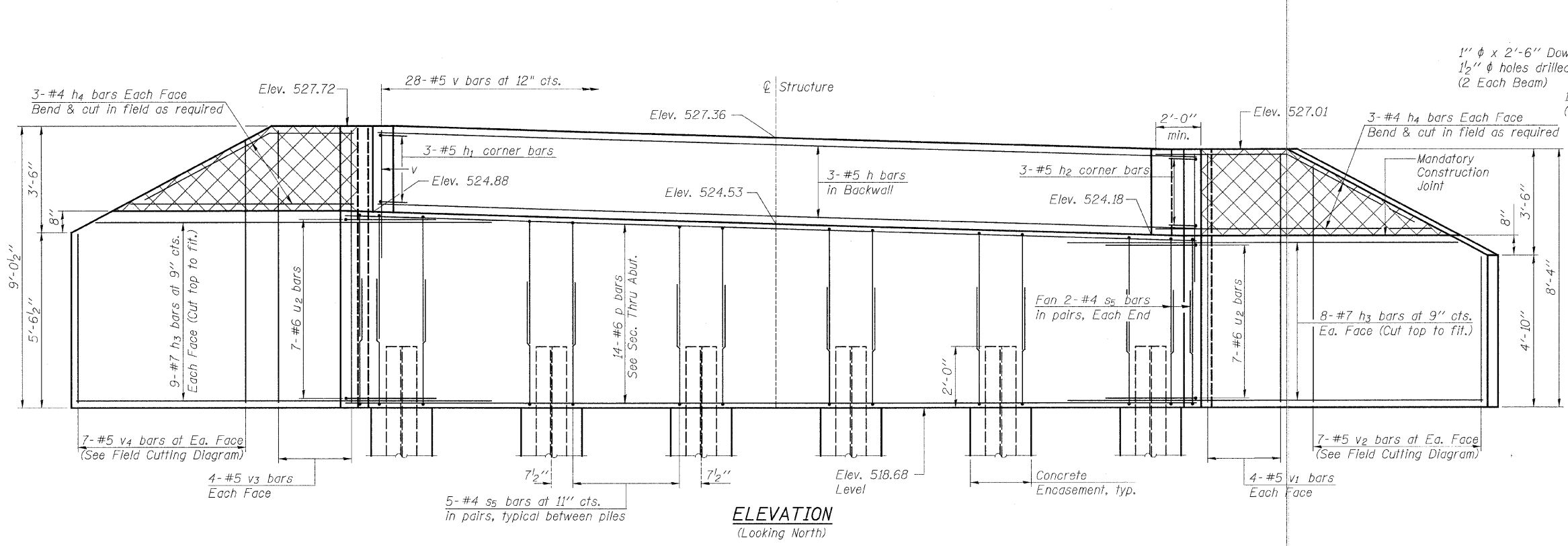
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	CHECKED - M.A.C.	REVISED -

BUREAU COUNTY
T.R. 240 OVER PLOW HOLLOW CREEK
STATION 15 + 00

SOUTH ABUTMENT
STRUCTURE NO. 006-4012
 STRUCTURAL SHEET NO. 5 OF 9 SHEETS

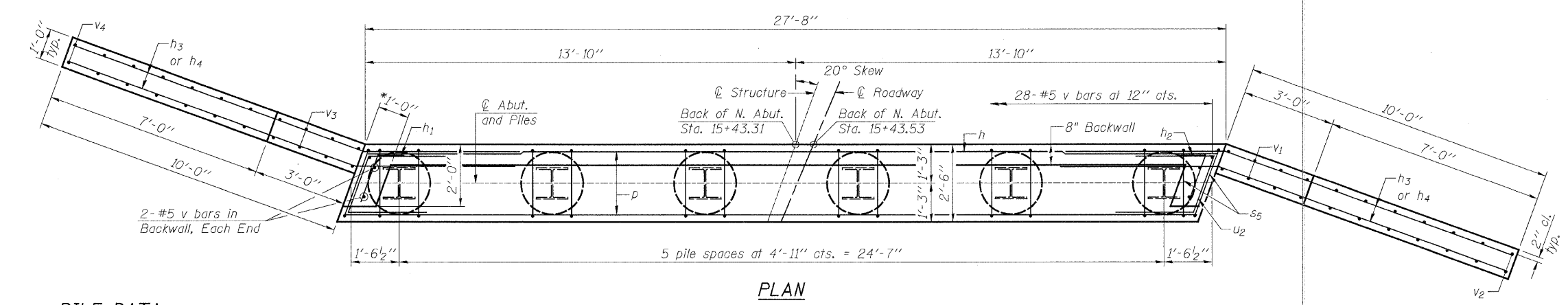
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240	10-01121-00-BR	BUREAU	23	14
WHA# 1285D10		CONTRACT NO. 87483		
ILLINOIS FED. AID PROJECT BROS-0011(075)				



SEC. THRU ABUT.
(Dimensions are at Rt. L's)

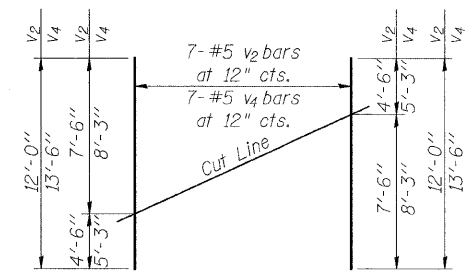
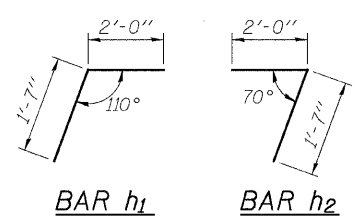
BILL OF MATERIAL

Bar	No.	Size	Length	Shape
h	3	#5	27'-4"	—
h ₁	3	#5	3'-7"	┌
h ₂	3	#5	3'-7"	└
h ₃	34	#7	13'-7"	—
h ₄	12	#4	10'-9"	—
p	14	#6	27'-4"	—
s ₅	58	#7	9'-10"	┌
u ₂	14	#6	7'-2"	└
v	32	#5	4'-10"	—
v ₁	8	#5	8'-0"	—
v ₂	7	#5	12'-0"	—
v ₃	8	#5	8'-10"	—
v ₄	7	#5	13'-6"	—
Concrete Structures		Cu. Yd.	22.9	
Concrete Encasement		Cu. Yd.	2.1	
Reinforcement Bars		Pound	2,740	
Furnishing Steel				
Piles HP 12x63		Foot	140	
Driving Piles		Foot	140	
Test Pile Steel HP 12x63		Each	1	
** Porous Granular Embankment, Special		Ton	50	

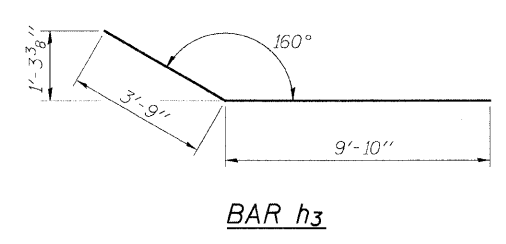


PILE DATA

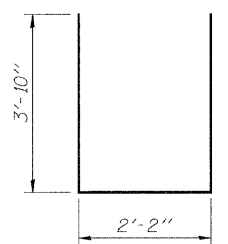
Type: Steel HP 12X63
Nominal Required Bearing: 271 k
Factored Resistance Available: 149 k
Est. Length: 28'
No. Production Piles: 5
No. Test Piles: 1 @ N.W. corner



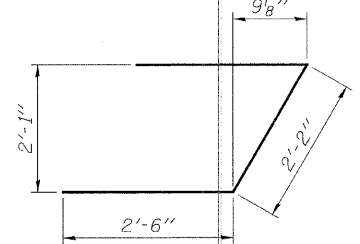
FIELD CUTTING DIAGRAM
Order v₂ & v₄ full length. Cut as shown and use remainder of bars in opposite face.



BAR h₃



BARS s₅



BAR u₂

NOTES:

Hatched portion of wingwalls to be poured with the backwall after the deck beams have been installed and grout has cured for a minimum of 24 hours.
All exposed edges shall have standard 3/4" chamfers, except as noted.
Space reinforcement in cap to miss dowel rods.
After beams have been erected, holes shall be drilled into substructure and anchor dowels placed. Dowel holes shall be filled with non-shrink grout to top of beam and allowed to cure a min. of 24 hours prior to grouting the shear keys.
For HP Pile Details see Structural Sheet 8 of 9.
* May vary due to overrun of beams.
** For Drainage Details, see Structural Sheet 2 of 9.

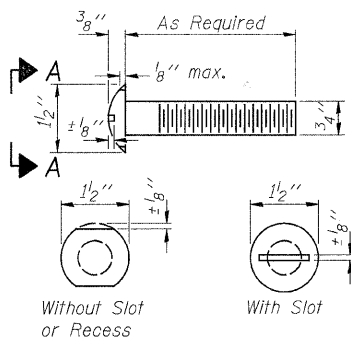
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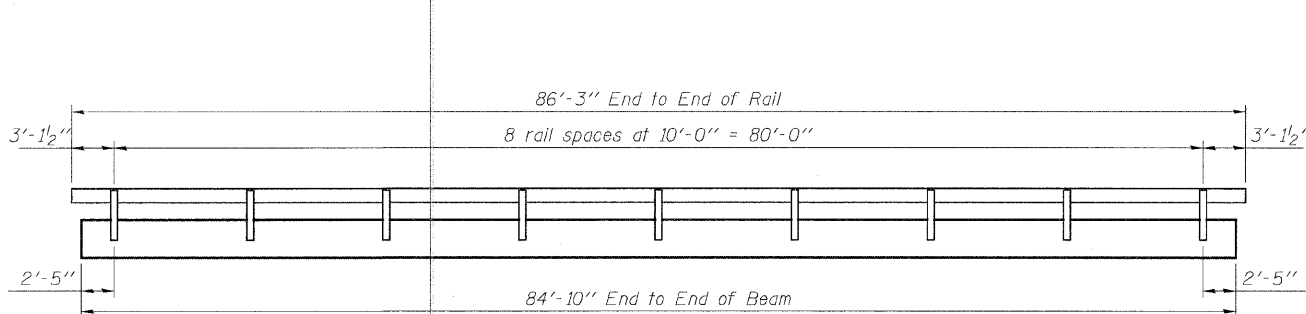
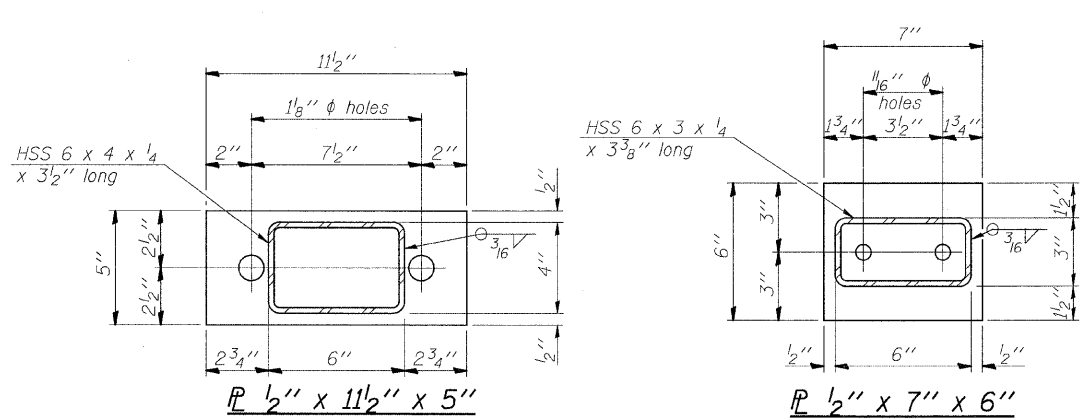
BUREAU COUNTY
T.R. 240 OVER PLOW HOLLOW CREEK
STATION 15 + 00

NORTH ABUTMENT
STRUCTURE NO. 006-4012
STRUCTURAL SHEET NO. 6 OF 9 SHEETS

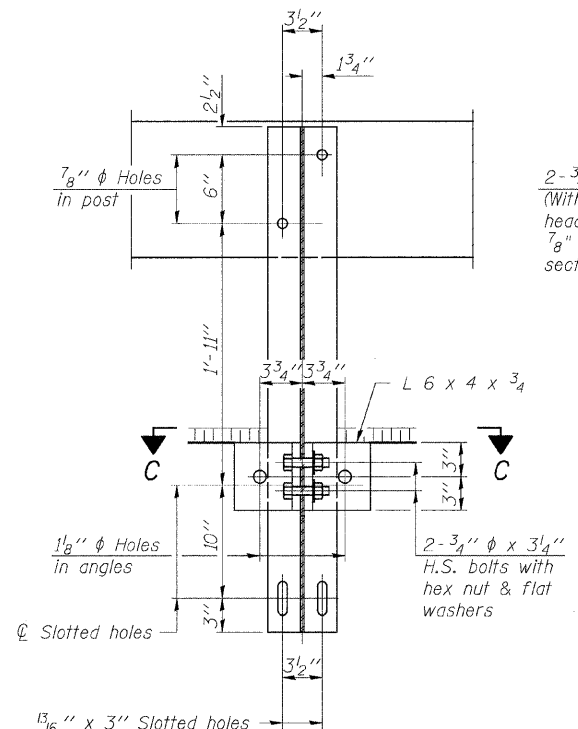
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WHA# 1285010		CONTRACT NO. 87483		
ILLINOIS FED. AID PROJECT BROS-0011075				



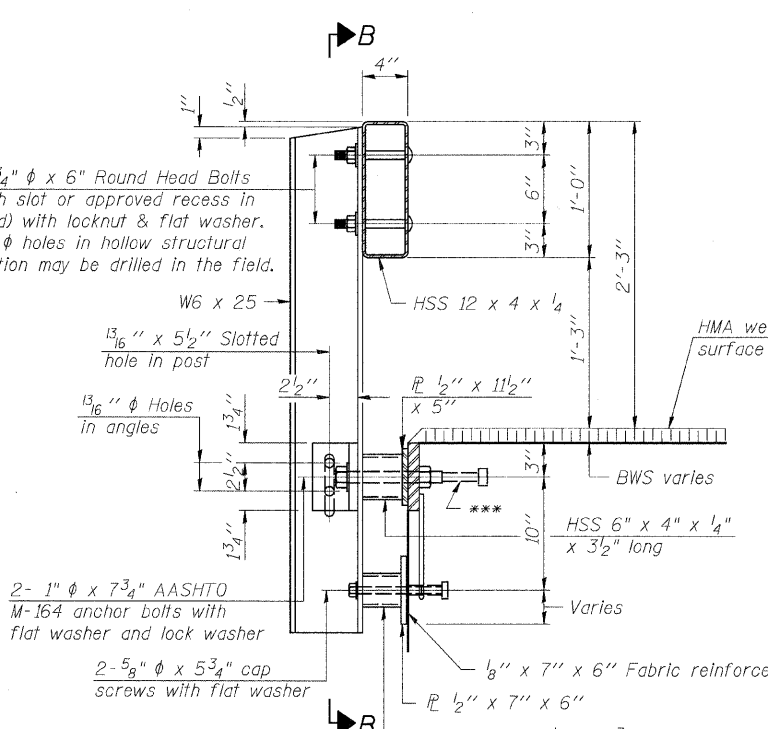
**VIEW A-A
ROUND HEAD BOLT**



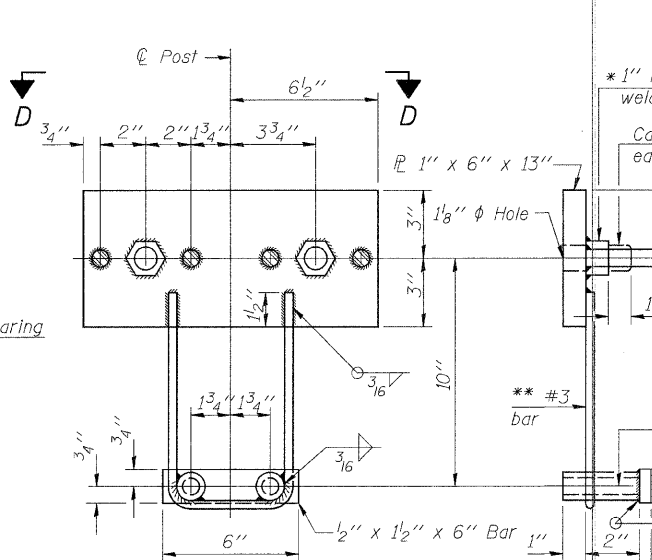
ELEVATION VIEW



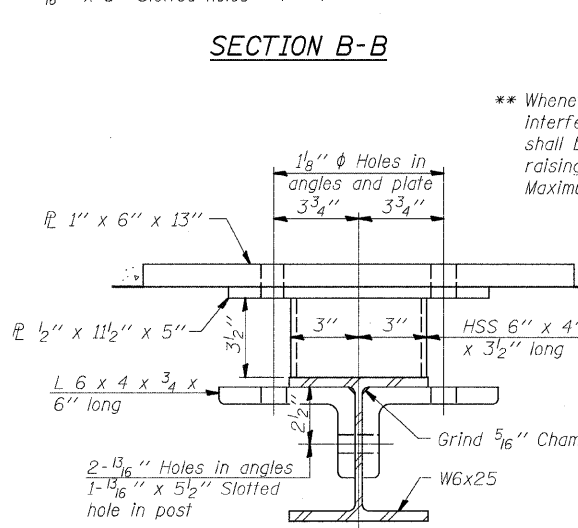
SECTION B-B



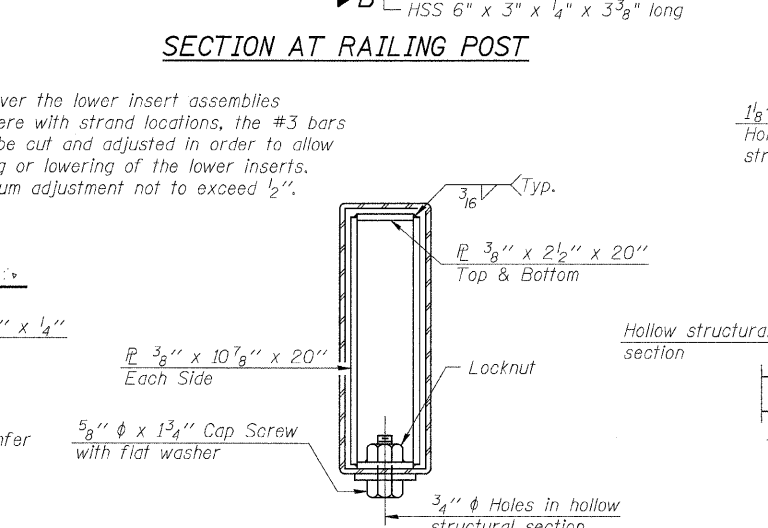
SECTION AT RAILING POST



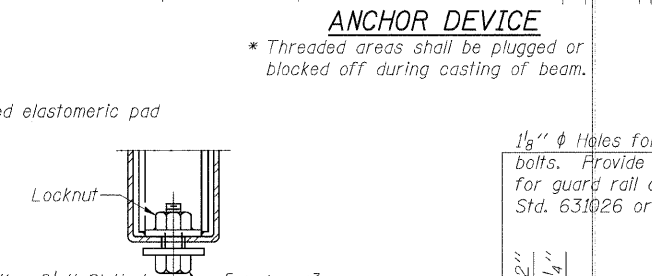
ANCHOR DEVICE



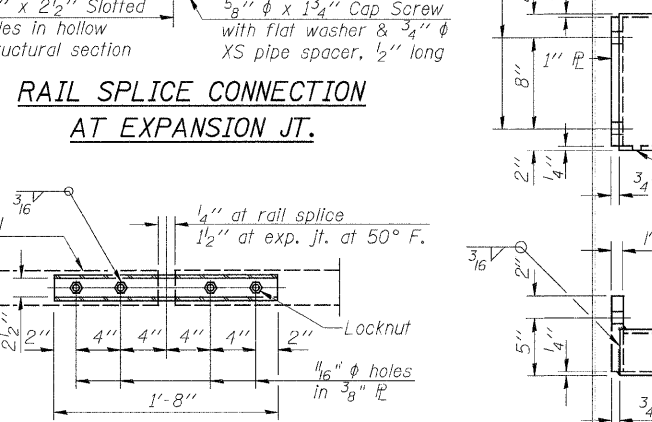
SECTION C-C



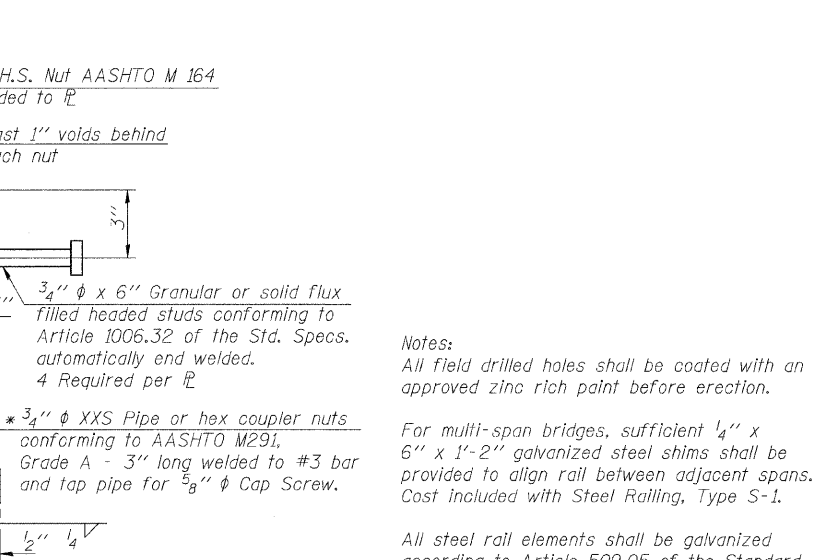
SECTIONS AT RAIL SPLICE



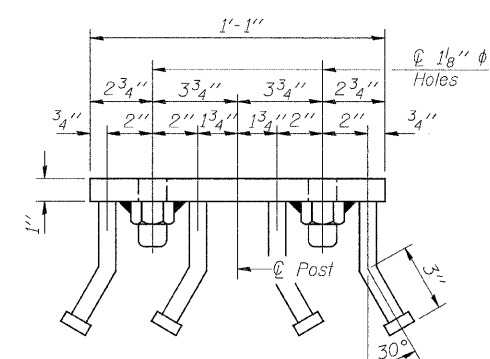
**RAIL SPLICE CONNECTION
AT EXPANSION JT.**



**PLAN-BOTT. SPLICE P
TYPICAL**



END OF RAIL DETAILS



VIEW D-D

BILL OF MATERIAL

Item	Unit	Quantity
Steel Railing, Type S-1	Foot	173

TWP. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
240	10-01121-00-BR	BUREAU	23	16
WHA# 1285D10		CONTRACT NO. 87483		
ILLINOIS FED. AID PROJECT BR05-001(075)				

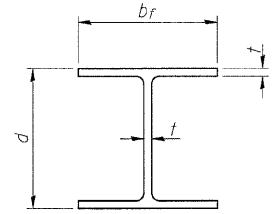
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	B.K.C.	
	F.D.L.	
	M.A.C.	

**BUREAU COUNTY
T.R. 240 OVER PLOW HOLLOW CREEK
STATION 15 + 00**

**STEEL RAILING, TYPE S1 DETAILS
STRUCTURE NO. 006-4012**

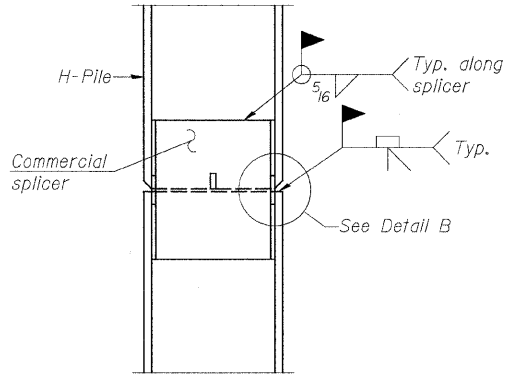
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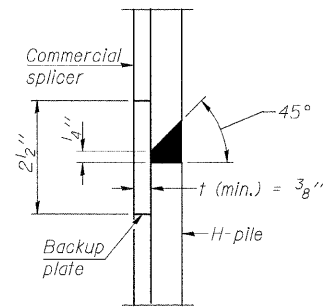


STEEL PILE TABLE

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

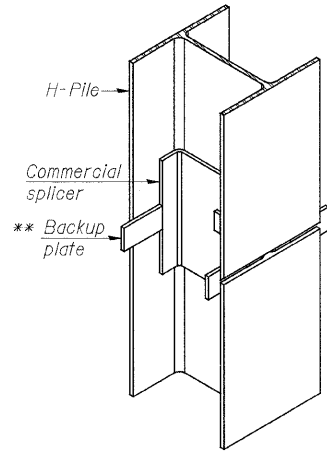


ELEVATION

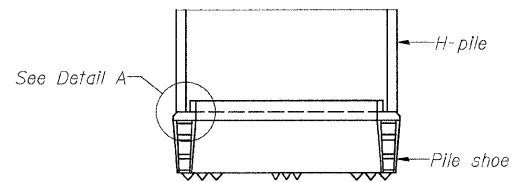


DETAIL "B"

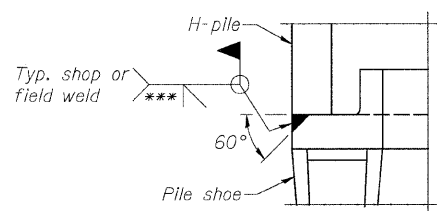
WELDED COMMERCIAL SPLICE



ISOMETRIC VIEW

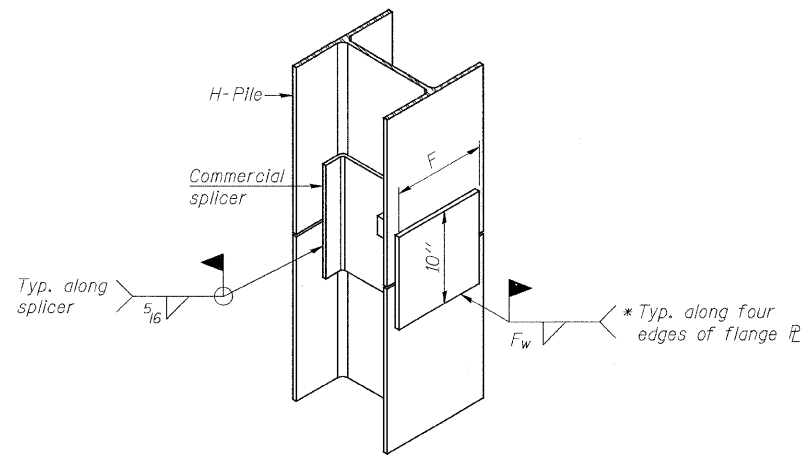


ELEVATION



DETAIL A

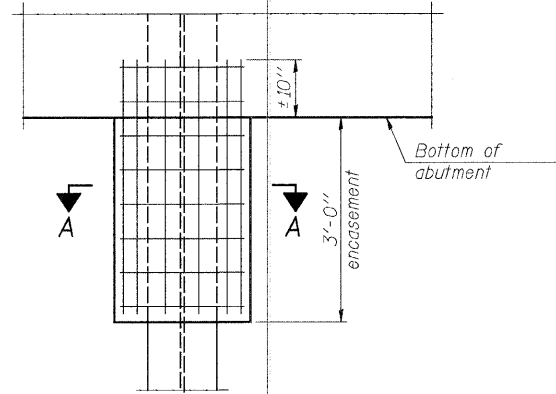
H-PILE SHOE ATTACHMENT



ISOMETRIC VIEW

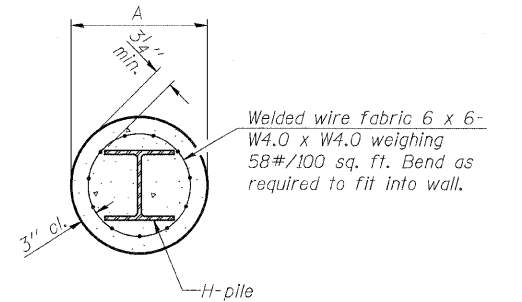
WELDED COMMERCIAL SPLICE ALTERNATE

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



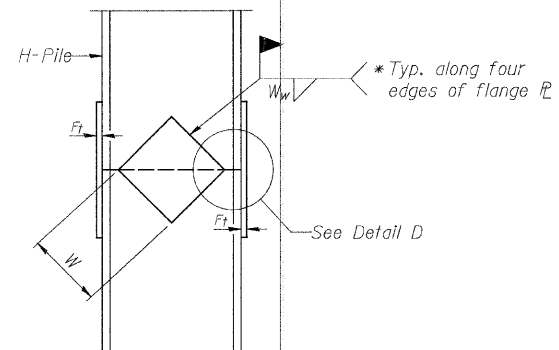
ELEVATION

PILE ENCASEMENT



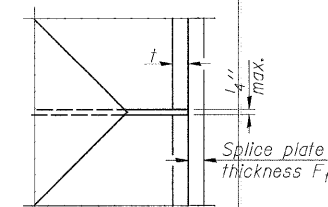
SECTION A-A

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



ELEVATION

END VIEW



DETAIL D

WELDED PLATE FIELD SPLICE

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

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

FILE NAME = S:\PROJECTS\2010\1285010_BureauCo.TR240\DESIGN\STRUCTURE Drawings\1285010Steel\HP11ing.dgn

USER NAME =	DESIGNED - B.S.K.	REVISED -
PLOT SCALE =	CHECKED - B.K.C.	REVISED -
PLOT DATE =	DRAWN - F.D.L.	REVISED -
	CHECKED - M.A.C.	REVISED -

BUREAU COUNTY
T.R. 240 OVER PLOW HOLLOW CREEK
STATION 15 + 00

HP PILE DETAILS
STRUCTURE NO. 006-4012

STRUCTURAL SHEET NO. 8 OF 9 SHEETS

TWP. R.T.E. 240	SECTION 10-01121-00-BR	COUNTY BUREAU	TOTAL SHEETS 23	SHEET NO. 17
WHA# 1285010		CONTRACT NO. 87483		
ILLINOIS FED. AID PROJECT 8ROS-001(075)				

FILE NAME = S:\PROJECTS\2010\1285010_BureauCo.-TR240\DESIGN\STRUCT\Structure Drawings\1285010Borings.dgn

SW4, Section 17, T 15 N, R 9 E, 4th PM
FORM NO. 8-0 197 REV. 9-82

Sh. 1 of 1 Sh.

BRIDGE FOUNDATION BORING LOG

PROJECT Arispie Township BRIDGE Plow Hollow Creek Date Feb. 9, 1978
 ROUTE _____ Bored By H. Williams
 SEC. 77-01114-00-BR STA. Br.No. 4001 Checked By R. Wildman
 COUNTY Bureau

Boring No. B-1
 Station 15+37
 Offset 6 of road

Elevation	N	Q _u /L.T. (%)	Ground Surface Water El. <u>21.5</u>	Elevation	N	Q _u /L.T. (%)	Groundwater El. at Completion <u>dry hole</u>
Ground Surface <u>524.9</u>							
<u>-2</u>							
<u>-5</u>							
<u>-10</u>							
<u>-15</u>							
<u>-20</u>							
<u>-45</u>							

N - Standard Penetration Test - Blows per foot to drive 2" O.D. Split Spoon Sampler 12" with 140# hammer falling 30".
 Q_u - Unconfined Compressive Strength - 1/ft
 w - Water Content - percentage of oven dry weight - %
 Type failure:
 B - Bulge Failure
 S - Shear Failure
 E - Estimated Value
 P - Penetrometer

FORM NO. 8-0 197 REV. 9-82

Sh. 1 of 1 Sh.

BRIDGE FOUNDATION BORING LOG

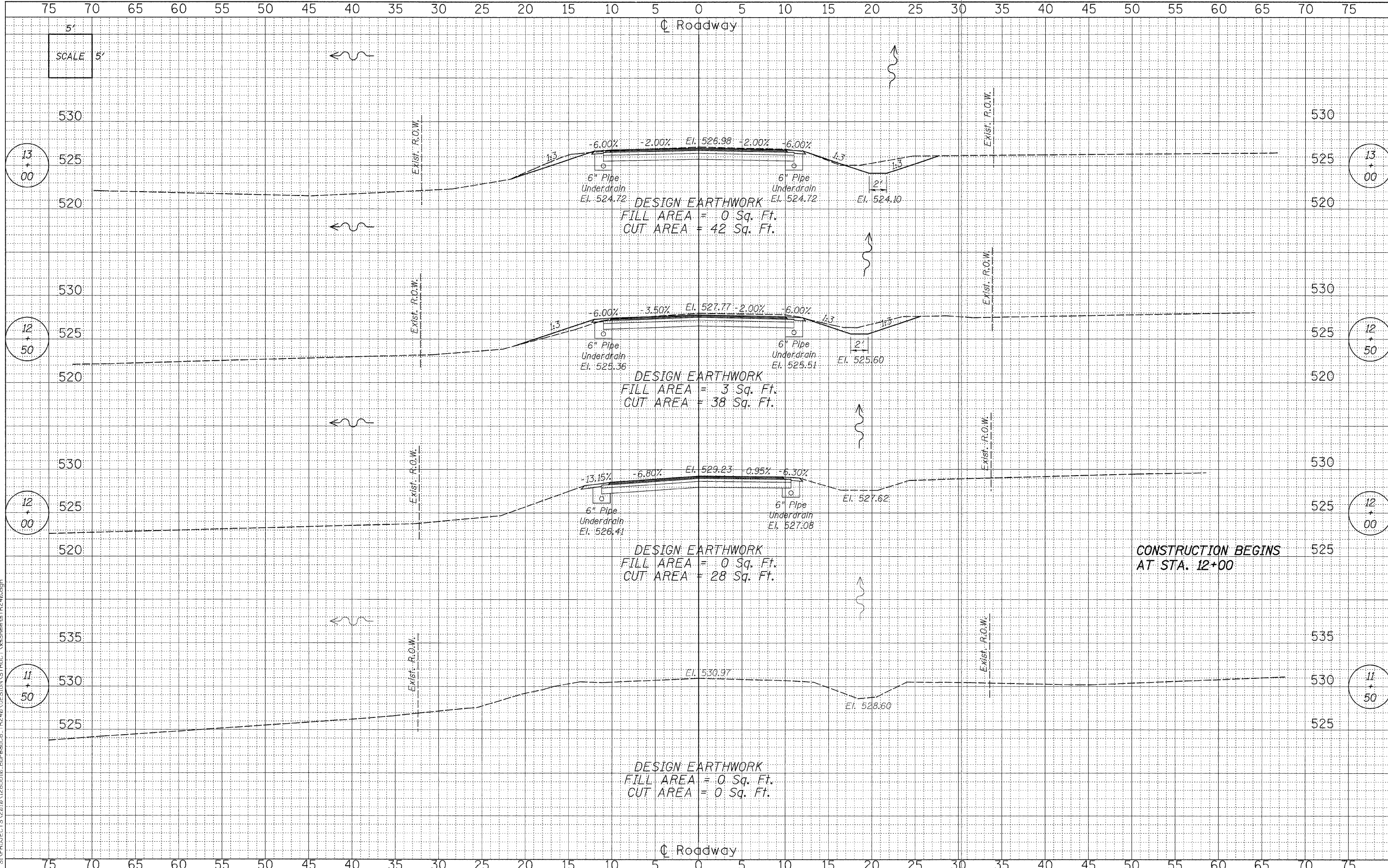
PROJECT Arispie Township BRIDGE Plow Hollow Creek Date 2-15-78
 ROUTE _____ Bored By H. Williams
 SEC. 77-01114-00-BR STA. Br.No. 4001 Checked By R. Wildman
 COUNTY Bureau

Boring No. B-2
 Station 14+51
 Offset 6 of road

Elevation	N	Q _u /L.T. (%)	Surface Water El. <u>31.0</u>	Elevation	N	Q _u /L.T. (%)	Groundwater El. at Completion <u>dry hole</u>
Ground Surface <u>527.0</u>							
<u>-2</u>							
<u>-5</u>							
<u>-10</u>							
<u>-15</u>							
<u>-20</u>							
<u>-45</u>							

N - Standard Penetration Test - Blows per foot to drive 2" O.D. Split Spoon Sampler 12" with 140# hammer falling 30".
 Q_u - Unconfined Compressive Strength - 1/ft
 w - Water Content - percentage of oven dry weight - %
 Type failure:
 B - Bulge Failure
 S - Shear Failure
 E - Estimated Value
 P - Penetrometer

USER NAME =	DESIGNED - B.S.K.	REVISED -	BUREAU COUNTY T.R. 240 OVER PLOW HOLLOW CREEK STATION 15+00	BORING LOGS STRUCTURE NO. 006-4012	TWP. R1E.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
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PLOT DATE =	DRAWN - F.D.L.	REVISED -			CONTRACT NO. 87483				
	CHECKED - M.A.C.	REVISED -			ILLINOIS FED. AID PROJECT BROS-0011(075)				
					STRUCTURAL SHEET NO. 9 OF 9 SHEETS				



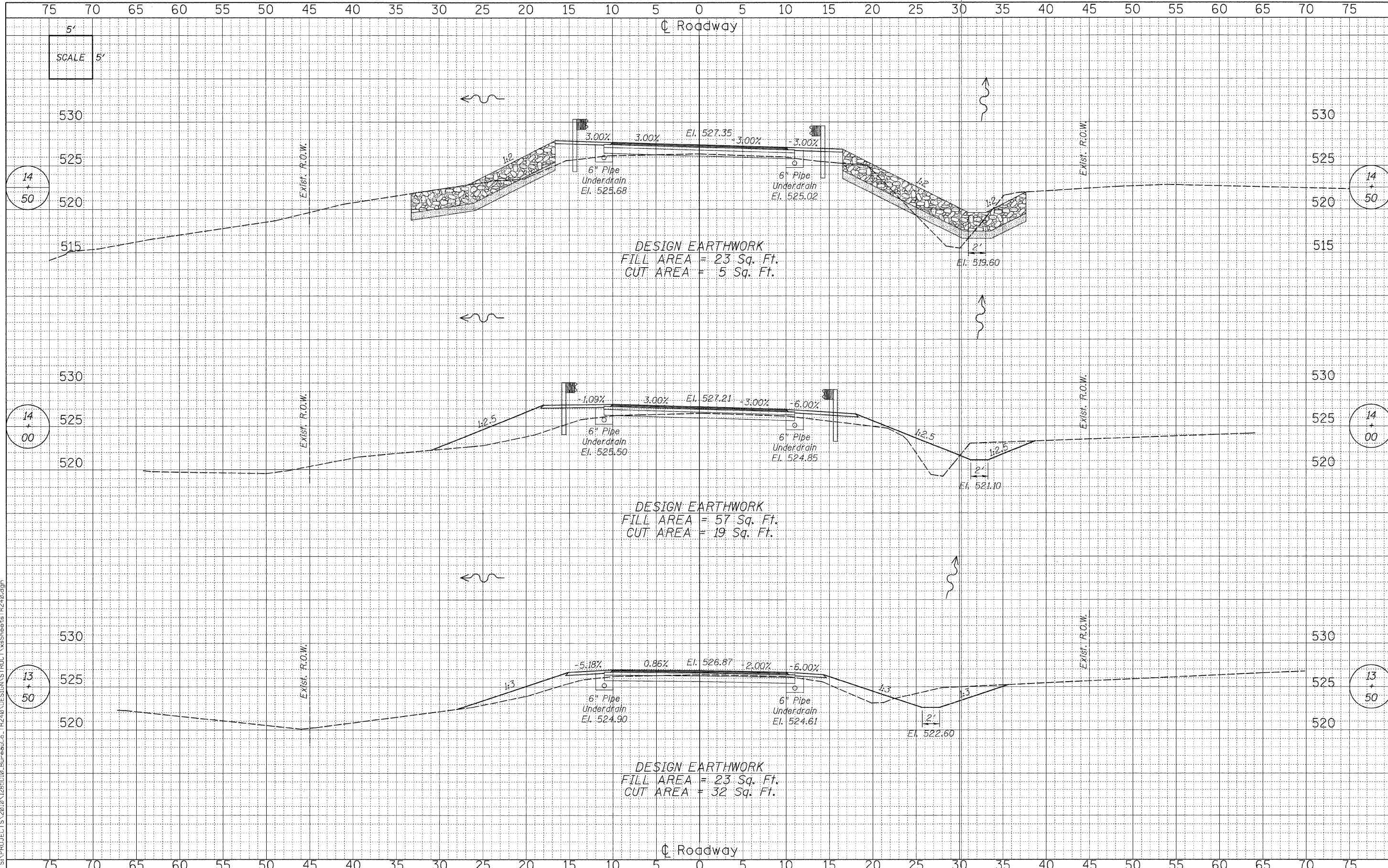
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	CHECKED - B.K.C.	REVISED -
PLOT SCALE =	DRAWN - R.D.A.	REVISED -
PLOT DATE =	CHECKED - B.S.K.	REVISED -

BUREAU COUNTY
TR 240 OVER PLOW HOLLOW CREEK
STATION 15 + 00

CROSS SECTIONS
STRUCTURE NO. 006-4012
 STA. 11+50 TO STA. 13+00

TWP. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
240	10-01121-00-BR	BUREAU	23	19
WHA* 1285D10		CONTRACT NO. 87483		
ILLINOIS FED. AID PROJECT BROS-0011075				



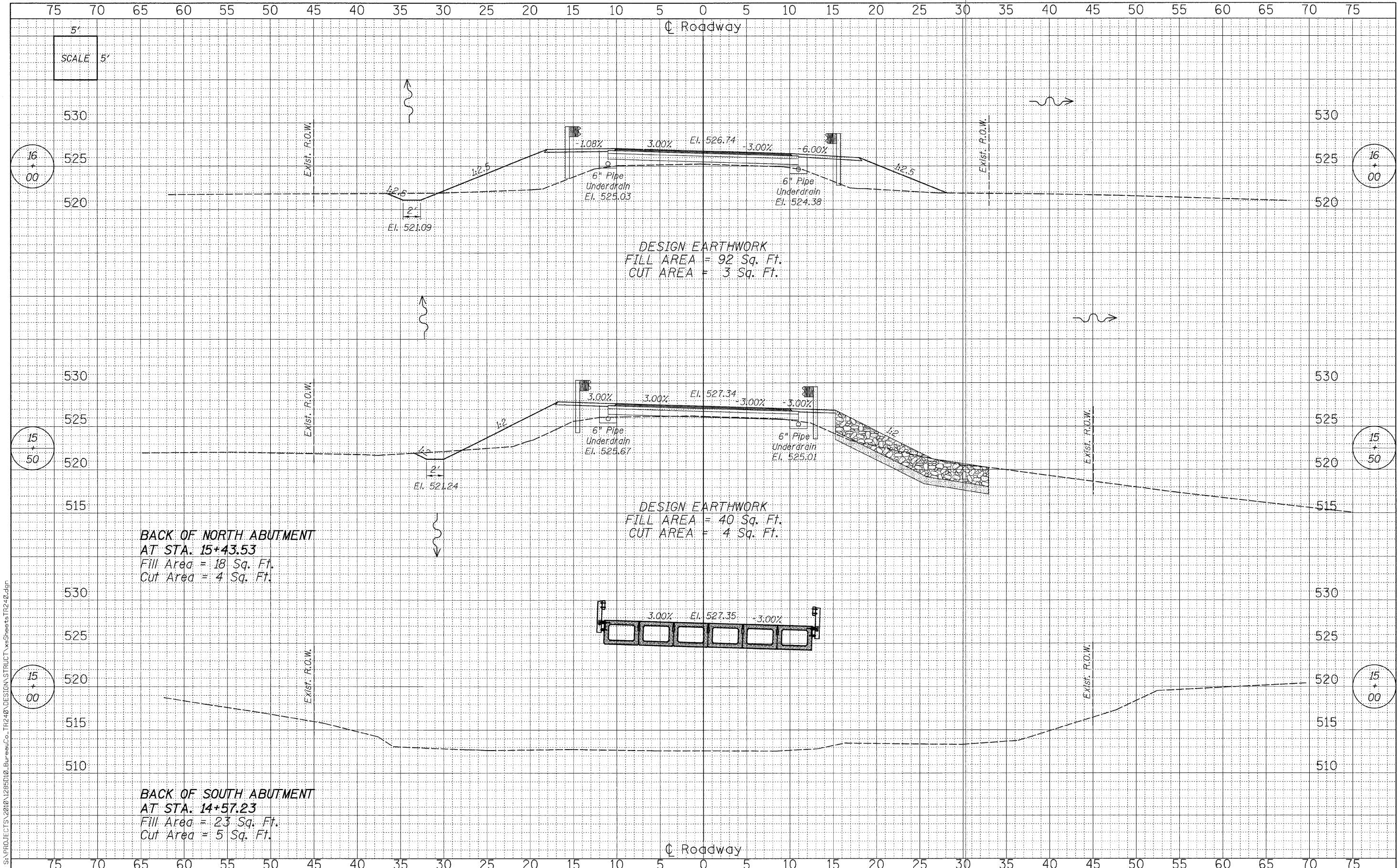
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PLOT SCALE =	CHECKED - B.K.C.	REVISED -
PLOT DATE =	DRAWN - R.D.A.	REVISED -
	CHECKED - B.S.K.	REVISED -

**BUREAU COUNTY
 TR 240 OVER PLOW HOLLOW CREEK
 STATION 15 + 00**

**CROSS SECTIONS
 STRUCTURE NO. 006-4012
 STA. 13+50 TO STA. 14+50**

TWP. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
240	10-01121-00-BR	BUREAU	23	20
WHA# 1285010		CONTRACT NO. 87483		
ILLINOIS FED. AID PROJECT BROS-0011(075)				



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BACK OF NORTH ABUTMENT
AT STA. 15+43.53
Fill Area = 18 Sq. Ft.
Cut Area = 4 Sq. Ft.

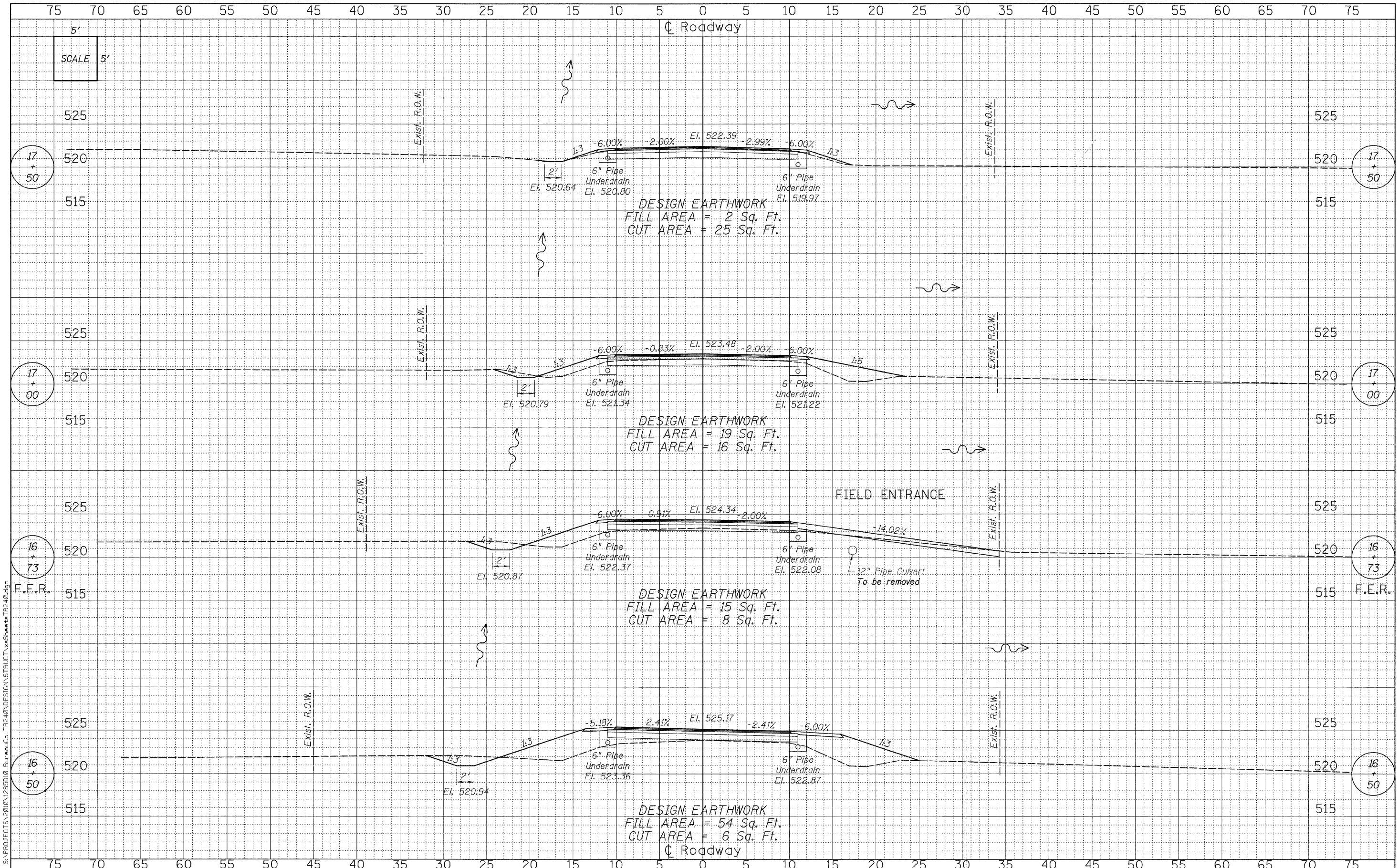
BACK OF SOUTH ABUTMENT
AT STA. 14+57.23
Fill Area = 23 Sq. Ft.
Cut Area = 5 Sq. Ft.

USER NAME =	DESIGNED - B.S.K.	REVISED -
	CHECKED - B.K.C.	REVISED -
PLOT SCALE =	DRAWN - R.D.A.	REVISED -
PLOT DATE =	CHECKED - B.S.K.	REVISED -

BUREAU COUNTY
TR 240 OVER PLOW HOLLOW CREEK
STATION 15 + 00

CROSS SECTIONS
STRUCTURE NO. 006-4012
STA. 15+00 TO STA. 16+00

TWP. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
240	10-01121-00-BR	BUREAU	23	21
WHA# 1285010		CONTRACT NO. 87483		
[ILLINOIS] FED. AID PROJECT BROS-0011075				



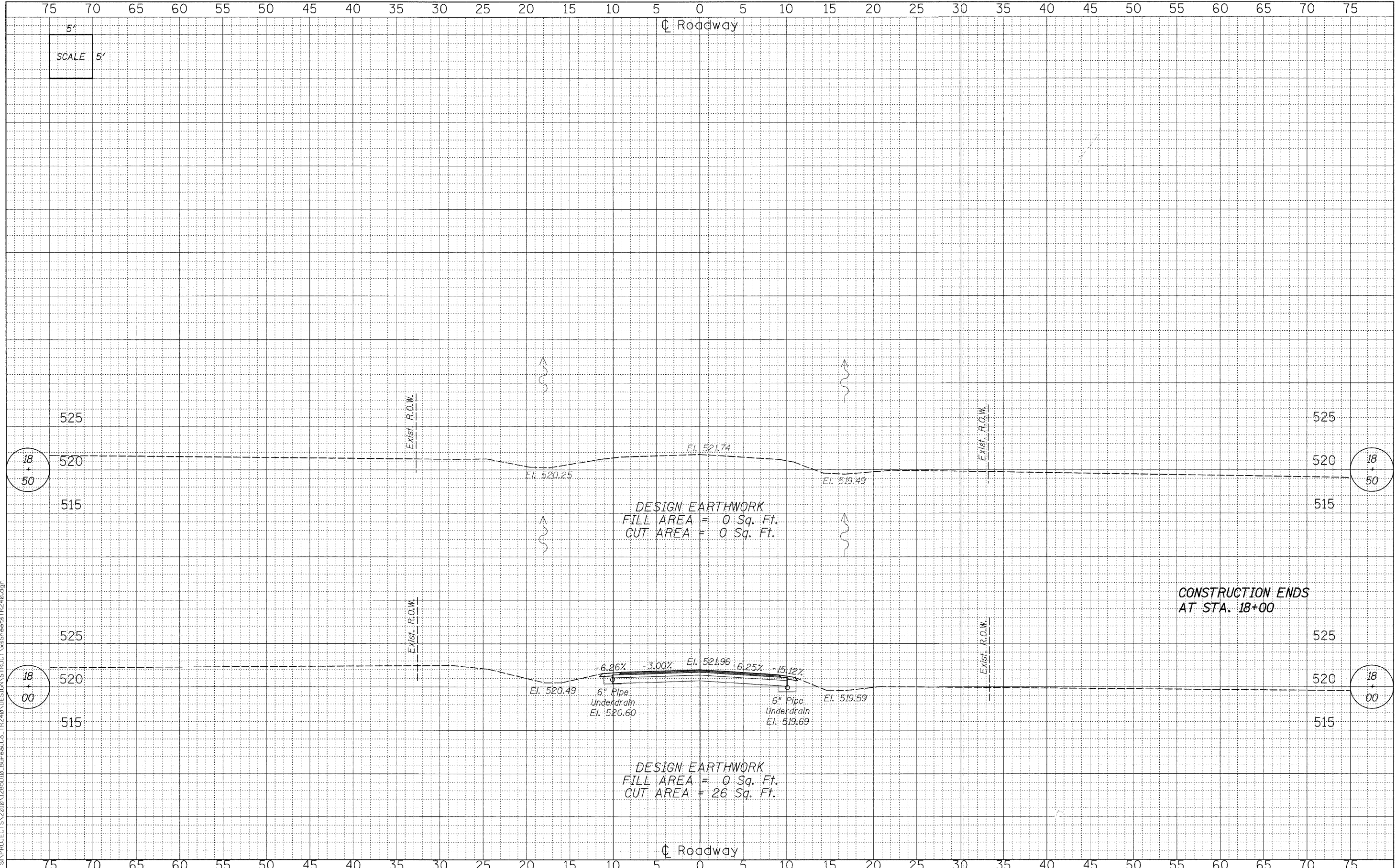
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PLOT DATE =	DRAWN - R.D.A.	REVISED -
	CHECKED - B.S.K.	REVISED -

**BUREAU COUNTY
 TR 240 OVER PLOW HOLLOW CREEK
 STATION 15 + 00**

**CROSS SECTIONS
 STRUCTURE NO. 006-4012
 STA. 16+50 TO STA. 17+50**

TWP. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
240	10-01121-00-BR	BUREAU	23	22
WHA# 1285010		CONTRACT NO. 87483		
[ILLINOIS] FED. AID PROJECT BROS-0011(075)				



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PLOT SCALE =	CHECKED - B.K.C.	REVISED -
PLOT DATE =	DRAWN - R.D.A.	REVISED -
	CHECKED - B.S.K.	REVISED -

**BUREAU COUNTY
TR 240 OVER PLOW HOLLOW CREEK
STATION 15 + 00**

**CROSS SECTIONS
STRUCTURE NO. 006-4012
STA. 18+00 TO STA. 18+50**

TWP. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
240	10-01121-00-BR	BUREAU	23	23
WHA# 1285010		CONTRACT NO. 87483		
ILLINOIS FED. AID PROJECT BROS-0011075				