

ROUTE NO.	SECTION	COUNTY	SHEET NO.	TOTAL SHEETS
CH 9	*	IROQUOIS	17	1
FED. ROAD DIST. NO. 7		ILLINOIS	PROJECT BRS-334(112)	
*04-00052-03-BR			CONTRACT #87357	

**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION  
PLANS FOR PROPOSED  
HIGHWAY BRIDGE PROGRAM  
IROQUOIS COUNTY**

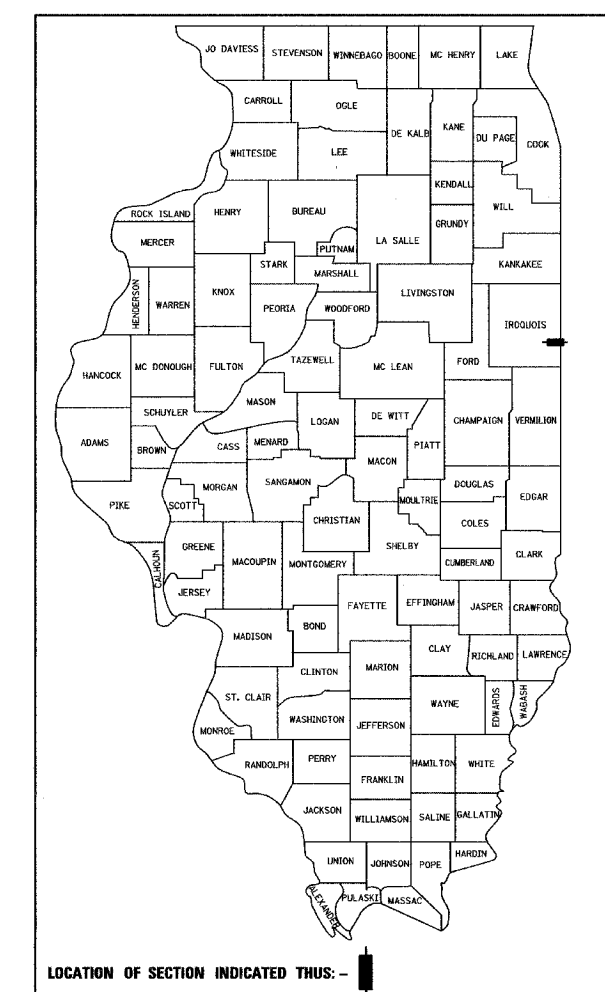
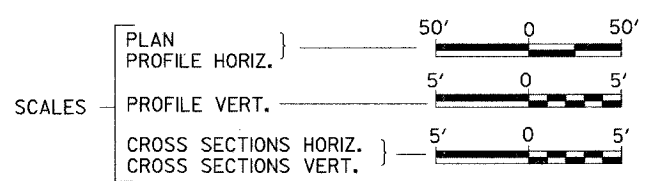
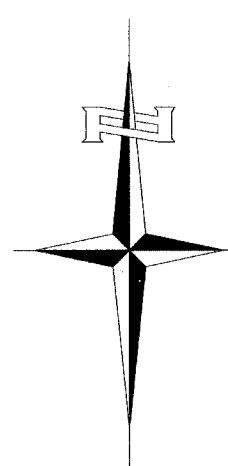
**SECTION 04-00052-03-BR  
COUNTY HIGHWAY 9 OVER MUD CREEK  
PROJECT NO. BRS-334(112)  
JOB NUMBER C-93-073-07**

**INDEX OF SHEETS**

SHEET NO.	DESCRIPTION
1.	COVER SHEET
2.	GENERAL NOTES, DETAILS, AND TYPICAL SECTIONS
3.	SUMMARY OR QUANTITIES AND SCHEDULES OF QUANTITIES
4.	TRAFFIC CONTROL PLAN
5.	EROSION CONTROL PLAN
6.	PLAN AND PROFILE
7.-14.	STRUCTURE PLANS
15.-17.	CROSS SECTIONS

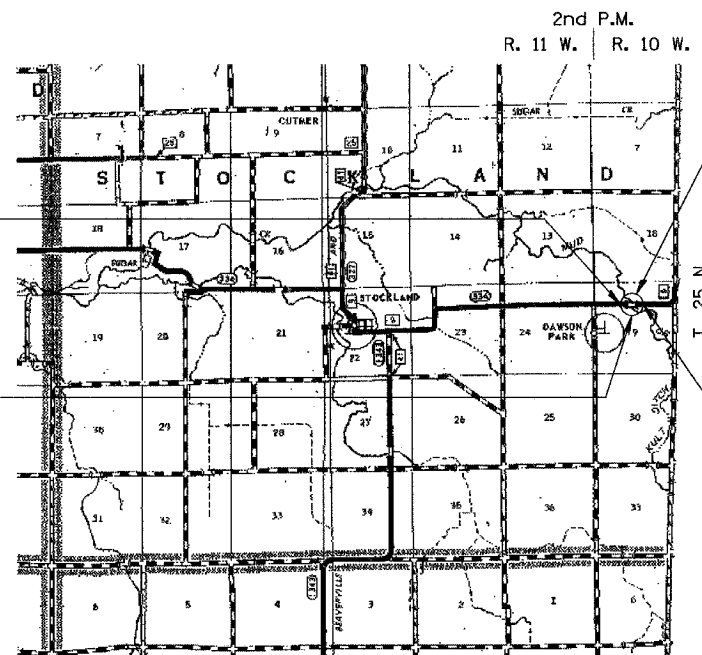
**REQUIRED HIGHWAY STANDARDS**

- 000001-04
- 280001-03
- 515001-02
- 630301-04
- 631032-03
- 635006-02
- 702001-06
- 780001-01
- BLR 21-6



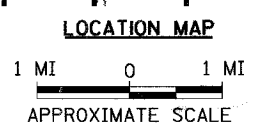
SECTION 04-00052-03-BR  
BEGINS  
STATION 38+25.00

EXISTING STRUCTURE 038-0059  
THREE SPAN REINFORCED CONCRETE  
SLAB STRUCTURE ON CLOSED ABUTMENTS  
AND PILE BENT PIERS 70'-0" BK. TO BK.,  
28'-6" O. TO O., 20° SKEW RT. AH.  
(TO BE REMOVED)



PROPOSED STRUCTURE NO. 038-5513  
THREE SPAN REINFORCED CONCRETE SLAB  
STRUCTURE ON SPILL THRU PILE BENT  
ABUTMENTS AND PILE BENT PIERS,  
102'-3 1/4" BK. TO BK. AND 30'-0" O. TO O.,  
25° SKEW RT. AH.

SECTION 04-00052-03-BR  
ENDS  
STATION 42+50.00



NET LENGTH OF PROJECT = 425.00 FEET = 0.081 MILES  
DESIGN CLASSIFICATION: MAJOR COLLECTOR (NON-URBAN)  
DESIGN ADT: 250(07)  
DESIGN SPEED = 40 MPH

UTILITY COMPANY  
VERIZON  
BLOOMINGTON, ILLINOIS

EASTERN ILLINOIS ELECTRIC COOPERATIVE  
PAXTON, ILLINOIS

CALL J.U.L.I.E.  
BEFORE YOU DIG  
1-800-892-0123

CONTRACT NO. ----87357----

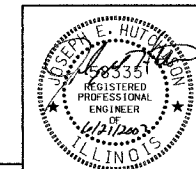
PLANS DESIGNED IN ACCORDANCE WITH BUREAU  
OF LOCAL ROADS AND STREETS MANUAL GUIDELINES  
FOR TWO LANE RURAL COLLECTORS - RECONSTRUCTION

APPROVED June 25, 2007  
*[Signature]*  
IROQUOIS COUNTY ENGINEER

PASSED August 29, 2007  
*[Signature]*  
DISTRICT THREE ENGINEER OF  
LOCAL ROADS & STREETS

Released For  
Bid Based on  
Limited Review August 29, 2007

*[Signature]*  
DEPUTY DIRECTOR OF HIGHWAYS,  
REGION TWO ENGINEER  
STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION



**Hutchison Engineering, Inc.**  
JACKSONVILLE ILLINOIS  
SHOREWOOD ILLINOIS

*[Signature]*  
SIGNATURE

2007 JOB#2261 ENGINEERS SEAL

226E001

**GENERAL NOTES**

THE REMOVAL OF EXISTING ASPHALT SURFACE, EXCEPT AS NOTED, AND GRAVEL OR CRUSHED STONE BASE COURSE WHICH MAY BE NECESSARY FOR THE CONSTRUCTION OF THE NEW BRIDGE 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 BY THE CONTRACTOR THAT ARE DAMAGED DURING CONSTRUCTION SHALL BE REPLACED 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.

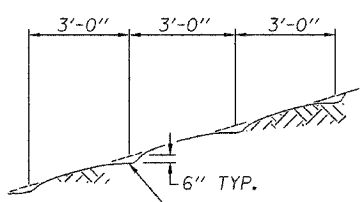
WHERE SECTION OR SUBSECTION MONUMENTS ARE ENCOUNTERED, THE ENGINEER SHALL BE NOTIFIED BEFORE SUCH MONUMENTS ARE REMOVED. THE CONTRACTOR SHALL PROTECT AND PRESERVE PROPERTY MARKERS UNTIL THE OWNER, AN AUTHORIZED SURVEYOR, OR AGENT, HAS WITNESSED OR OTHERWISE REFERENCED THEIR LOCATION.

ALL ELEVATIONS SHOWN REFER TO AN ASSUMED DATUM.

**BITUMINOUS CONCRETE MIXTURE REQUIREMENTS**

ITEM	HMA Binder	HMA Surface
PG Grade	PG58-22	PG58-22
Max % RAP Allowable**	25%	15%
Design Air Voids	4.0% @ N50	4.0% @ N50
Mixture Composition	IL 19.0	IL 12.5 or IL 9.5
Friction Aggregate	—	Mixture C
Density Test Method	Nuclear/Cores	Nuclear/Cores

\*\* If RAP option is selected, the asphalt cement grade may need to be adjusted. This will be determined by the Engineer.

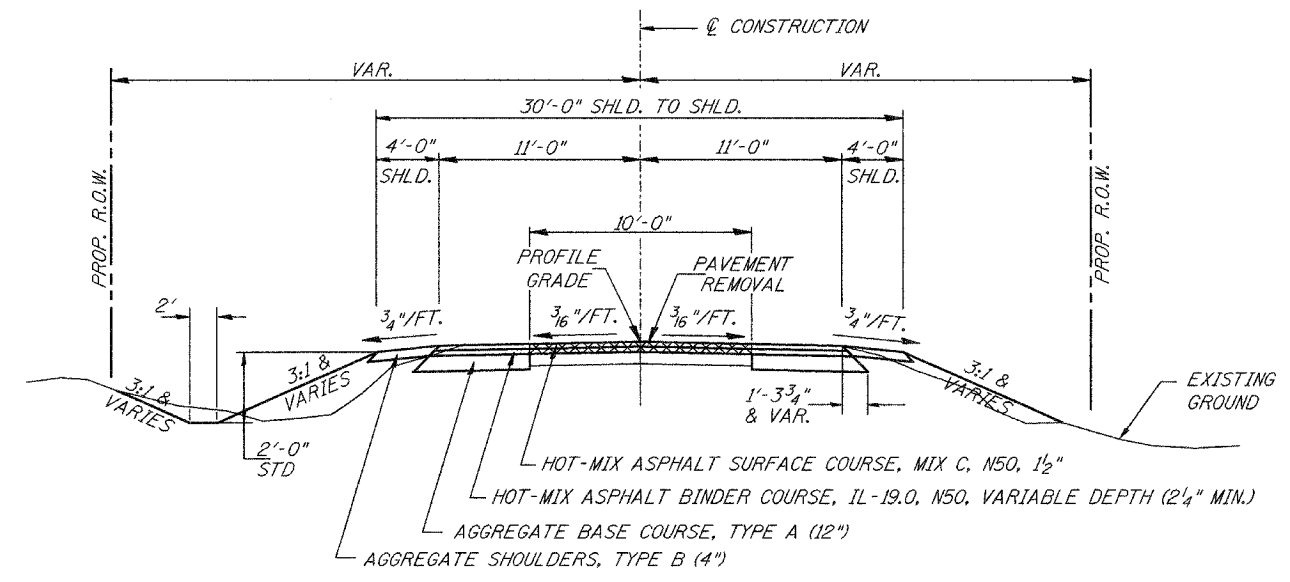


NOTE: ALL SLOPES 3:1 OR STEEPER AND GREATER THAN 5' IN HEIGHT SHALL BE CONTOUR PLOWED AS SHOWN IN DETAIL. COST SHALL BE INCLUDED WITH SEEDING, CLASS 2 (SPECIAL).

**DETAIL OF CONTOUR PLOWING**

**STRUCTURAL DESIGN INFORMATION  
COUNTY HIGHWAY 9**

ROAD CLASSIFICATION: CLASS IV, 80,000 lb  
 STRUCTURAL DESIGN TRAFFIC:  
 PV = 308 SU = 32 MU = 10  
 PERCENT OF STRUCTURAL DESIGN TRAFFIC IN DESIGN LANE:  
 P = 88% S = 9% M = 3%  
 BITUMINOUS PAVEMENT THICKNESS: 3 3/4"  
 AGGREGATE BASE COURSE, TYPE A: 12"

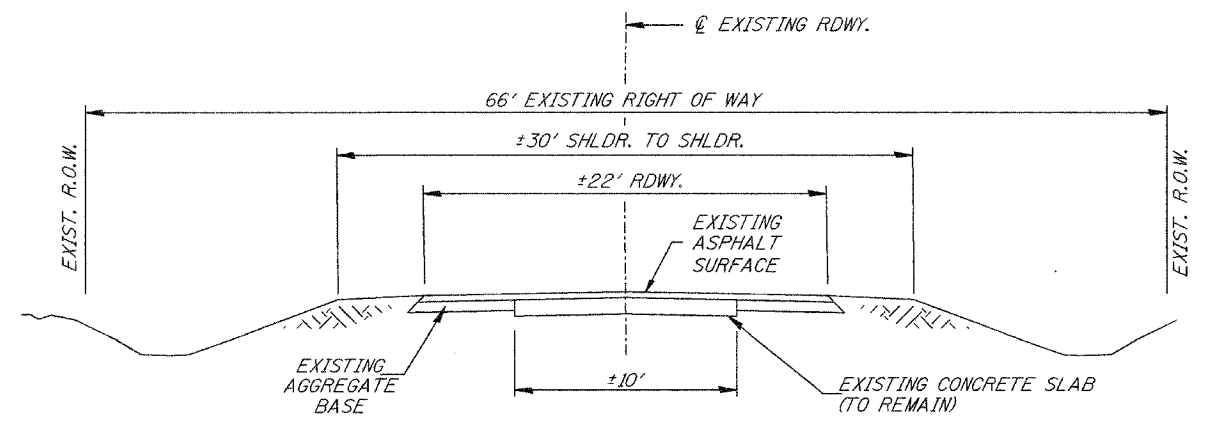


**PROPOSED TYPICAL SECTION**

STA. 38+25.00 TO STA. 39+38.90  
 STA. 40+41.17 TO STA. 42+50.00  
 EXCEPT TRANSITIONS

BRIDGE OMISSION  
 STA. 39+38.90 TO STA. 40+41.17

\* CONSTRUCT GUARDRAIL SHOULDER WIDENING IN ACCORDANCE WITH STD 630301



**EXISTING TYPICAL SECTION**

### SUMMARY OF QUANTITIES

CODE NO.	ITEM	UNIT	QUANTITY
20200100	EARTH EXCAVATION	CU YD	360
20300100	CHANNEL EXCAVATION	CU YD	850
① 25001000	SEEDING, CLASS 2 (SPECIAL)	ACRE	0.4
① 28000300	TEMPORARY DITCH CHECKS	EACH	5
28000400	PERIMETER EROSION BARRIER	FOOT	25
28100209	STONE RIPRAP, CLASS A5	TON	765
28200200	FILTER FABRIC	SQ YD	740
35100100	AGGREGATE BASE COURSE, TYPE A	TON	308
40600100	BITUMINOUS MATERIALS (PRIME COAT)	GALLON	440
40603080	HOT-MIX ASPHALT BINDER COURSE, IL-19.0, N50	TON	126
40603310	HOT-MIX ASPHALT SURFACE COURSE, MIX "C", N50	TON	66
44000100	PAVEMENT REMOVAL	SQ YD	359
48101200	AGGREGATE SHOULDERS, TYPE B	TON	60
① 50100100	REMOVAL OF EXISTING STRUCTURES	EACH	1
50200100	STRUCTURE EXCAVATION	CU YD	90
50300225	CONCRETE STRUCTURES	CU YD	80.1
50300255	CONCRETE SUPERSTRUCTURE	CU YD	179.0
50300280	CONCRETE ENCASEMENT	CU YD	5.9
① 50800205	REINFORCEMENT BARS, EPOXY COATED	POUND	45,170
51201400	FURNISHING STEEL PILES HP10X42	FOOT	523
51202305	DRIVING PILES	FOOT	523
51203400	TEST PILE STEEL HP10X42	EACH	2
51500100	NAME PLATES	EACH	1
59300100	CONTROLLED LOW-STRENGTH MATERIAL	CU YD	16.0
63100087	TRAFFIC BARRIER TERMINAL, TYPE 6A	EACH	2
63100167	TRAFFIC BARRIER TERMINAL TYPE 1, SPECIAL (TANGENT)	EACH	2
67100100	MOBILIZATION	L SUM	1
70300220	TEMPORARY PAVEMENT MARKING - LINE 4"	FOOT	106
78201000	TERMINAL MARKER - DIRECT APPLIED	EACH	4
① X5020501	UNDERWATER STRUCTURE EXCAVATION PROTECTION, LOCATION 1	EACH	1
① X5020502	UNDERWATER STRUCTURE EXCAVATION PROTECTION, LOCATION 2	EACH	1
XX006199	STEEL BRIDGE RAIL, TYPE SM (SPECIAL)	FOOT	205

① SEE SPECIAL PROVISIONS

CONSTRUCTION CODE TYPE: X020-2A

#### TEMPORARY DITCH CHECKS

STATION	SIDE	EACH
39+35	LEFT	1
39+50	RIGHT	1
40+30	LEFT	1
40+40	RIGHT	1
41+50	RIGHT	1
TOTAL		5

#### PERIMETER EROSION BARRIER

STATION TO STATION	SIDE	FOOT
38+25 - 38+50	RIGHT	25
TOTAL		25

#### TRAFFIC BARRIER TERMINAL, TYPE 6A

SIDE	STATION TO STATION	EACH
RIGHT	39+02.14 - 39+45.89	1
LEFT	40+34.18 - 40+77.93	1
TOTAL		2

#### TRAFFIC BARRIER TERMINAL TYPE 1, SPECIAL (TANGENT)

SIDE	STATION TO STATION	EACH
RIGHT	38+52.14 - 39+02.14	1
LEFT	40+77.93 - 41+27.93	1
TOTAL		2

#### TEMPORARY PAVEMENT MARKING - LINE 4"

STATION TO STATION	SIDE	DESCRIPTION	FOOT
38+25.00 - 42+50.00	CENTERLINE	YELLOW SKIP-DASH	106
TOTAL			106

PERMANENT PAVEMENT MARKING BY OTHERS.

#### PAVEMENT REMOVAL

STATION TO STATION	WIDTH	LENGTH	SQ YD
38+25.00 - 39+38.90	10.00'	113.90'	127
40+41.17 - 42+50.00	10.00'	208.83'	232
TOTAL			359

EXISTING ASPHALT SURFACE SHALL BE REMOVED TO TOP OF CONCRETE SLAB. THIS SLAB IS LOCATED IN THE APPROXIMATE CENTER 10' OF ROADWAY. APPROXIMATE EXISTING SURFACE THICKNESS TO BE REMOVED = 4 1/2".

#### EARTHWORK SUMMARY

STATION TO STATION	EARTH EXCAVATION	CHANNEL EXCAVATION	STRUCTURE EXCAVATION	FILL	WASTE (SHORTAGE)	
	CU YD	CU YD	CU YD	CU YD	CU YD	
RDWY 38+25.00 - 39+38.90	102			55	22	
RDWY 40+41.17 - 42+50.00	260			70	125	
CHANNEL		852				
STRUCTURE			89			
TOTAL		362	852	89	125	147
USE		360	850	90	-	147

(@ 25% SHRINKAGE)

#### HOT-MIX ASPHALT SCHEDULE

STATION TO STATION	WIDTH	LENGTH	PRIME COAT GALLON 0.50 GAL/SQ YD	ASPHALT BINDER CSE TON 112#/SQ YD/IN	ASPHALT SURF CSE TON 112#/SQ YD/IN
38+25.00 - 38+75.00	24.45' AVG.	50.00'	68		
38+75.00 - 39+38.90	24.63'	63.90'	87		
40+41.17 - 42+00.00	24.63'	158.83'	217		
42+00.00 - 42+50.00	24.60' AVG.	50.00'	68		
38+25.00 - 38+75.00	22.26' AVG.	50.00'		21	
38+75.00 - 39+38.90	22.44' AVG.	63.90'		25	
40+41.17 - 42+00.00	22.44' AVG.	158.83'		60	
42+00.00 - 42+50.00	22.41' AVG.	50.00'		20	
38+25.00 - 38+75.00	21.95' AVG.	50.00'			10
38+75.00 - 39+38.90	22.13' AVG.	63.90'			13
40+41.17 - 42+00.00	22.13' AVG.	158.83'			33
42+00.00 - 42+50.00	22.10' AVG.	50.00'			10
TOTAL			440	126	66

#### AGGREGATE BASE COURSE, TYPE A

STATION TO STATION	THICKNESS	WIDTH	LENGTH	TON
38+25.00 - 38+75.00	1.00'	13.45' AVG.	50.00'	47
38+75.00 - 39+38.90	1.00'	13.63' AVG.	63.90'	61
40+41.17 - 42+00.00	1.00'	13.63' AVG.	158.83'	152
42+00.00 - 42+50.00	1.00'	13.60' AVG.	50.00'	48
TOTAL				308

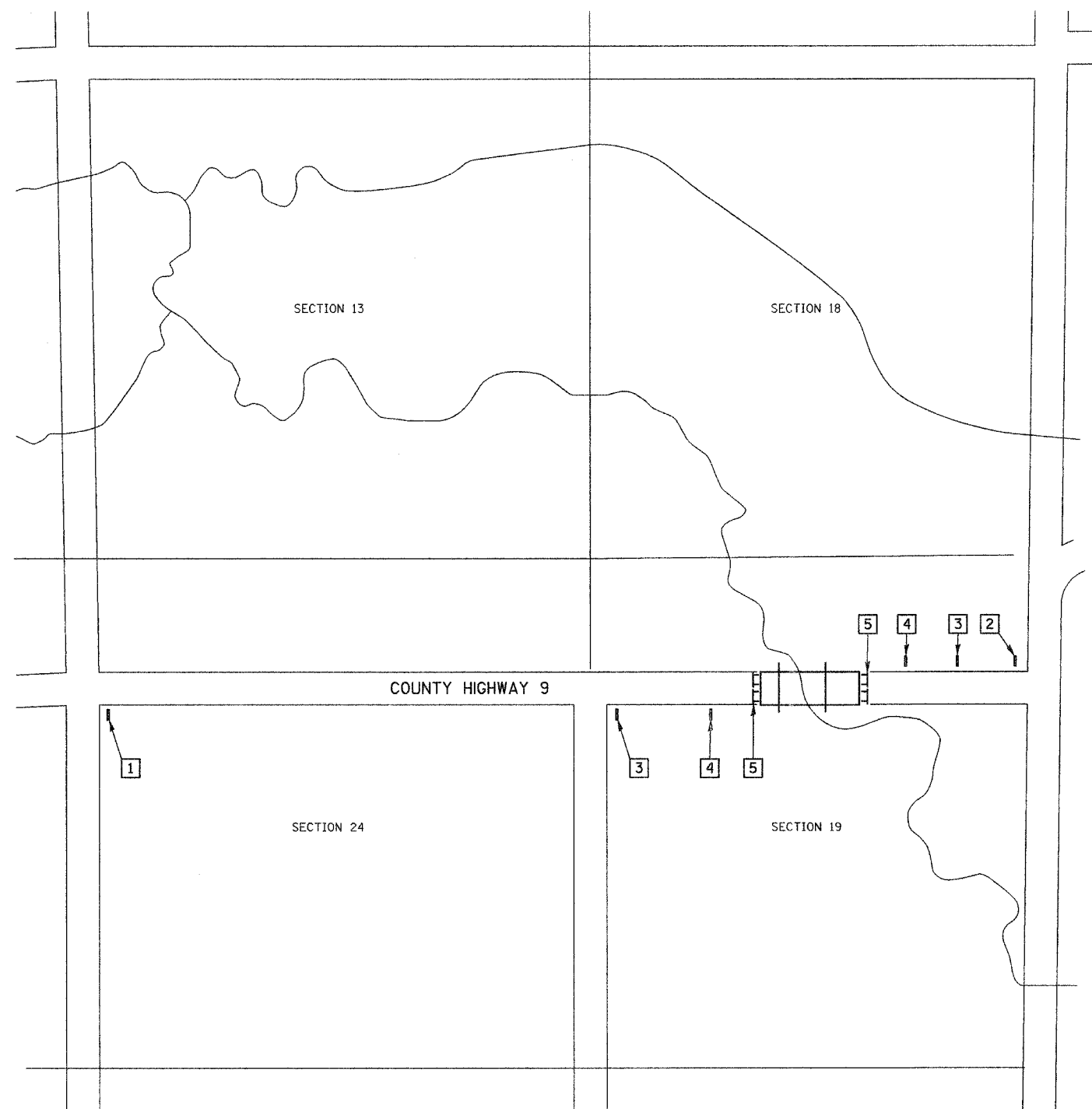
#### AGGREGATE SHOULDERS, TYPE B

STATION TO STATION	SIDE	WIDTH	LENGTH	TON
38+25.00 - 38+75.00	LEFT	4.0'	50.00'	5
38+25.00 - 38+75.00	RIGHT	4.0'	50.00'	5
38+75.00 - 39+32.84	LEFT	4.0'	57.84'	5
38+75.00 - 39+44.96	RIGHT	4.0'	69.96'	6
40+35.11 - 42+00.00	LEFT	4.0'	164.89'	15
40+47.23 - 42+00.00	RIGHT	4.0'	152.77'	14
42+00.00 - 42+50.00	LEFT	4.0'	50.00'	5
42+00.00 - 42+50.00	RIGHT	4.0'	50.00'	5
TOTAL				60

ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
CH 9	*	IROQUOIS	17	4
FED. ROAD DIST. NO. 7	ILLINOIS	PROJECT	BRS-334(112)	
*04-00052-03-BR			CONTRACT #87357	

T 25 N, R 11 W, 2nd PM

T 25 N, R 10 W, 2nd PM



- 1

ROAD CLOSED  
1/2 MILES AHEAD  
LOCAL TRAFFIC ONLY

ROAD CLOSED  
1/2 MILES AHEAD  
LOCAL TRAFFIC ONLY

R11-3
- 2

ROAD CLOSED  
1/2 MILE AHEAD  
LOCAL TRAFFIC ONLY

ROAD CLOSED  
1/2 MILE AHEAD  
LOCAL TRAFFIC ONLY

R11-3
- 3

ROAD  
CLOSED  
AHEAD

ROAD CLOSED  
AHEAD

W20-3
- 4

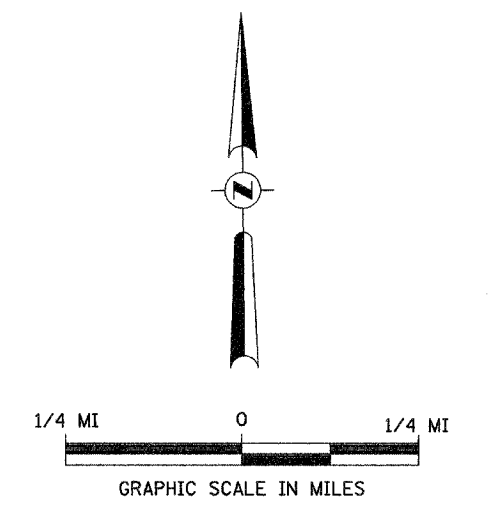
ROAD  
CLOSED  
500 FT

ROAD CLOSED  
500 FT

W20-3
- 5

TYPE III BARRICADES

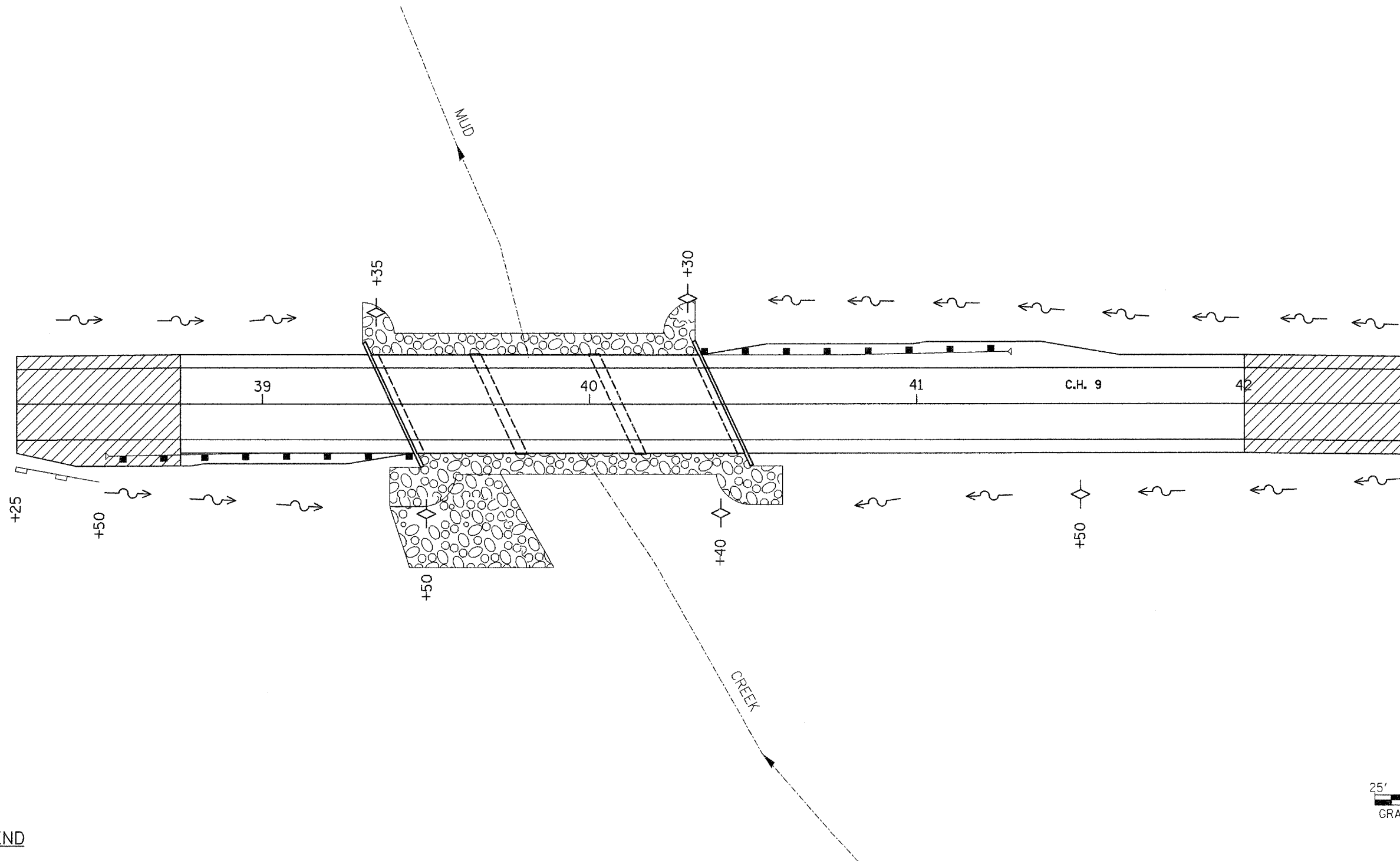
SEE STANDARD BLR 21  
AND SPECIAL PROVISIONS







TRAFFIC CONTROL PLAN  
C.H. 9 OVER MUD CREEK  
SECTION 04-00052-03-BR  
IROQUOIS COUNTY  
STATION 39+90.04

T 25 N, R 10 W, 2nd PM  
SECTION 19

ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
CH 9	*	IROQUOIS	17	5
FED. ROAD DIST. NO. 7	ILLINOIS	PROJECT	BRS-334(112)	
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LEGEND

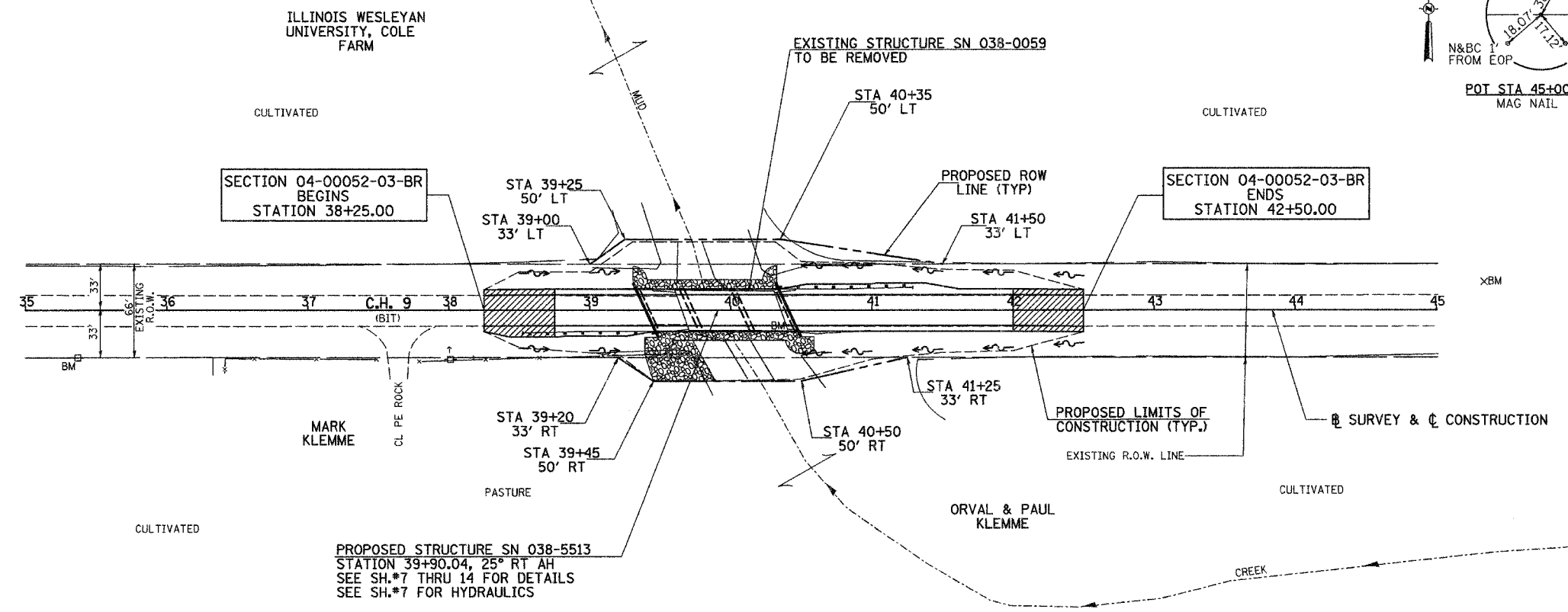
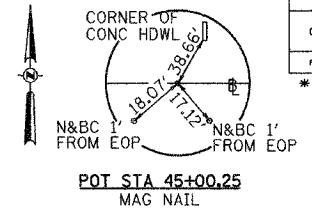
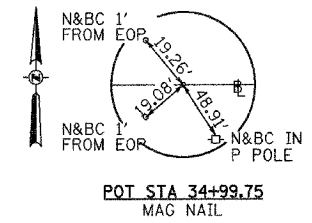
-  PERIMETER EROSION BARRIER
-  TEMPORARY DITCH CHECK
-  SPECIAL DITCH - FLOW LINE AND DIRECTION
-  PROPOSED RIPRAP PLACEMENT

T 25 N, R 10 W, 2nd PM  
SECTION 19

**EROSION CONTROL PLAN**  
**C.H. 9 OVER MUD CREEK**  
**SECTION 04-00052-03-BR**  
**IROQUOIS COUNTY**  
**STATION 39+90.04**

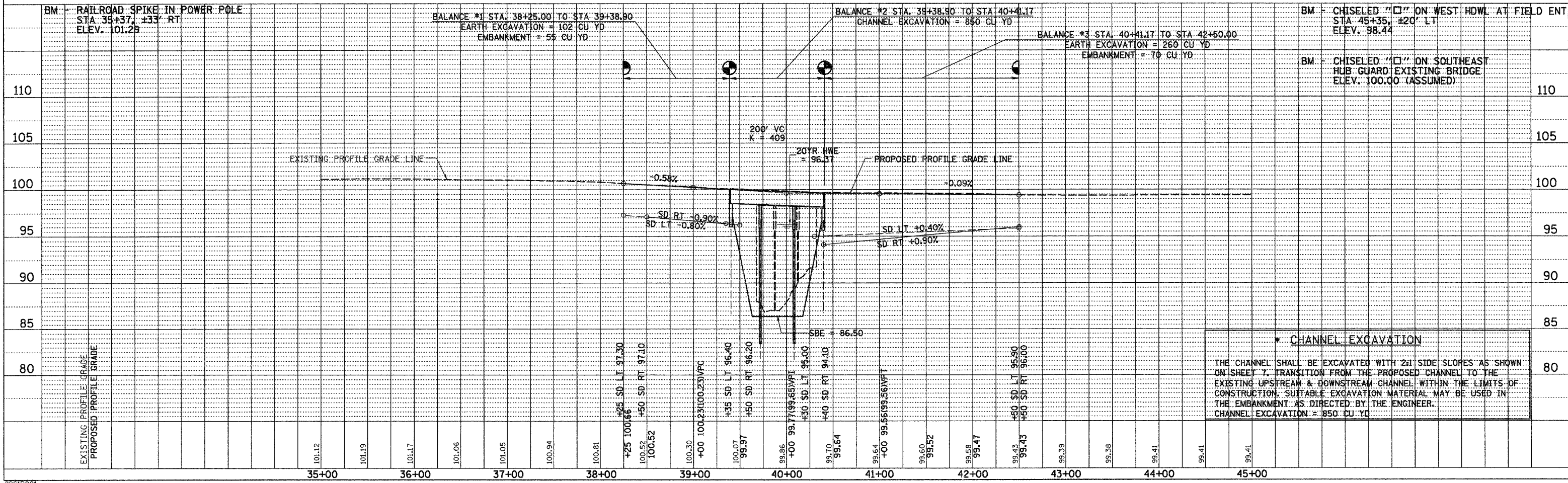
T 25 N, R 10 W, 2nd PM  
SECTION 19

ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
CH 9	*	IROQUOIS	17	6
FED. ROAD DIST. NO. 7		ILLINOIS	PROJECT BRS-334(112)	
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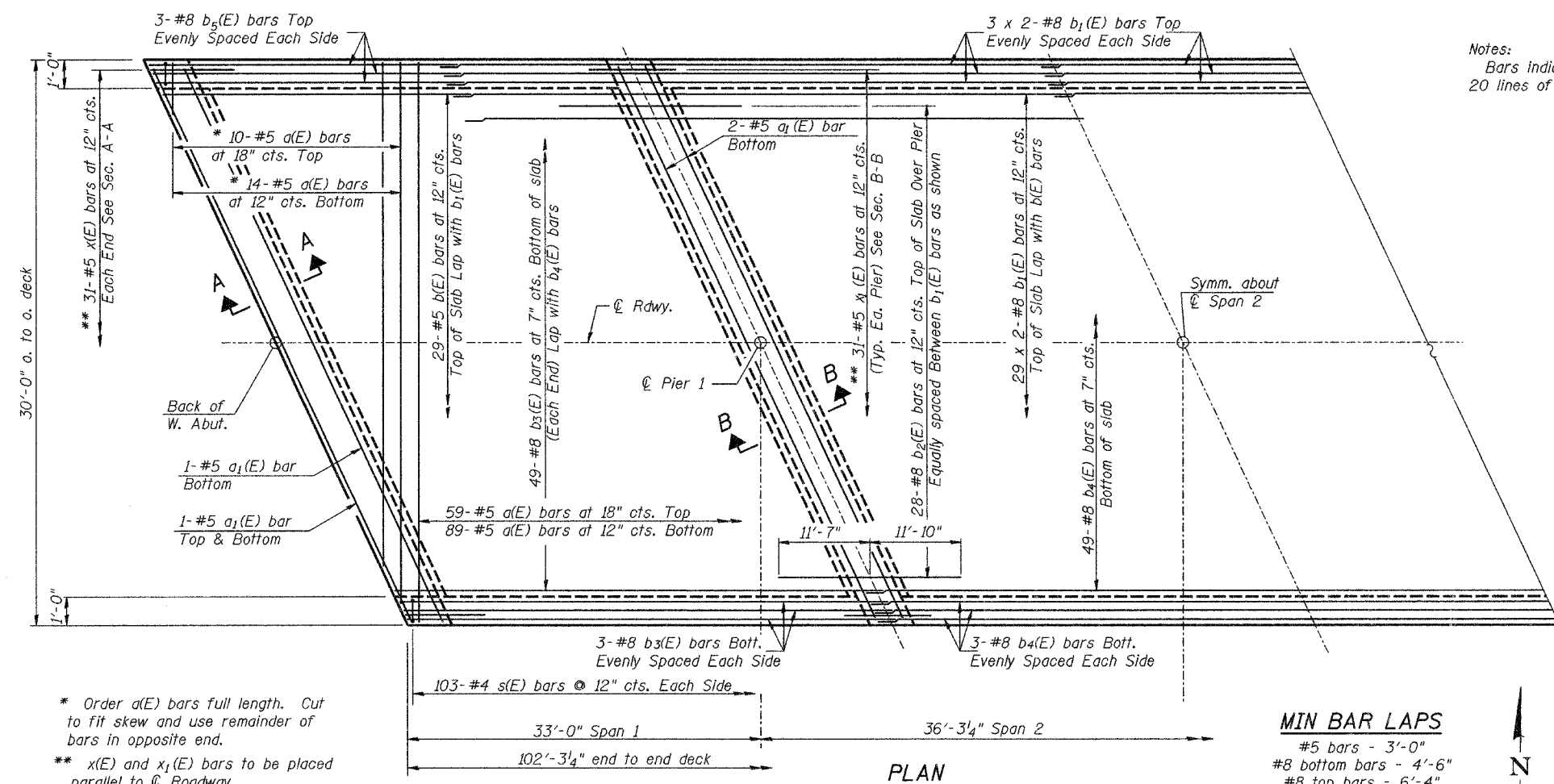
- LEGEND**
- TRANSITION TO OR FROM EXISTING TO PROPOSED TYPICAL PAVEMENT
  - PROPOSED RIPRAP PLACEMENT
  - SPECIAL DITCH WITH FLOW DIRECTION

T 25 N, R 10 W, 2nd PM  
SECTION 19





Notes:  
Bars indicated thus 20 x 3-#5 etc. indicates 20 lines of bars with 3 lengths per line.



\* Order  $a(E)$  bars full length. Cut to fit skew and use remainder of bars in opposite end.

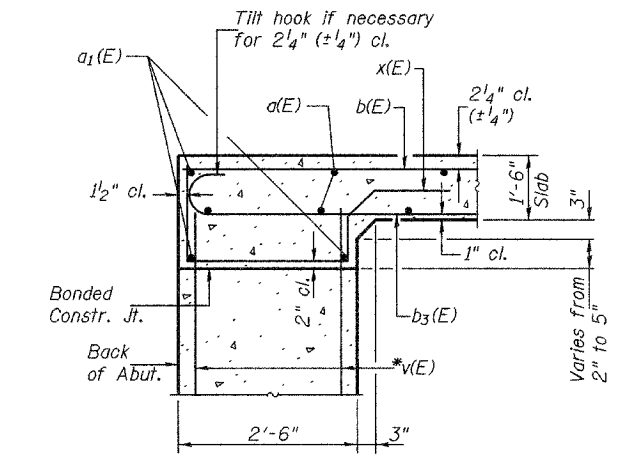
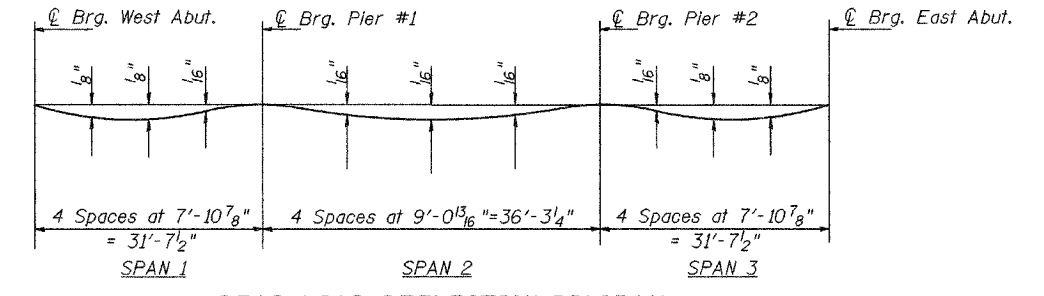
\*\*  $x(E)$  and  $x_1(E)$  bars to be placed parallel to  $\varnothing$  Roadway.

**MIN BAR LAPS**

#5 bars - 3'-0"

#8 bottom bars - 4'-6"

#8 top bars - 6'-4"



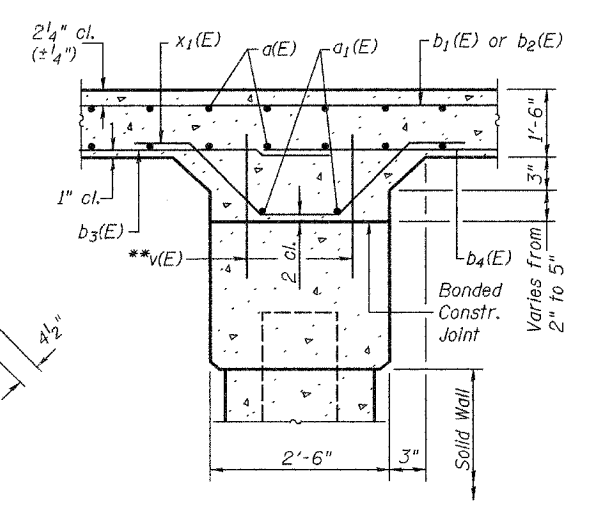
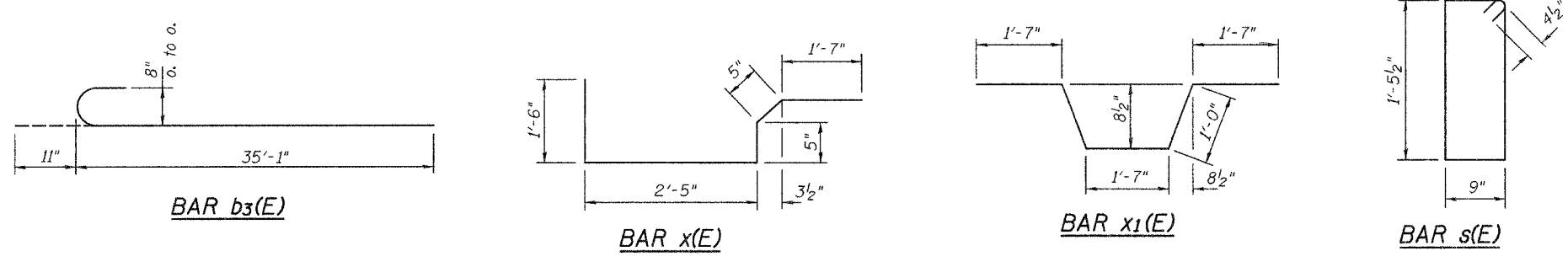
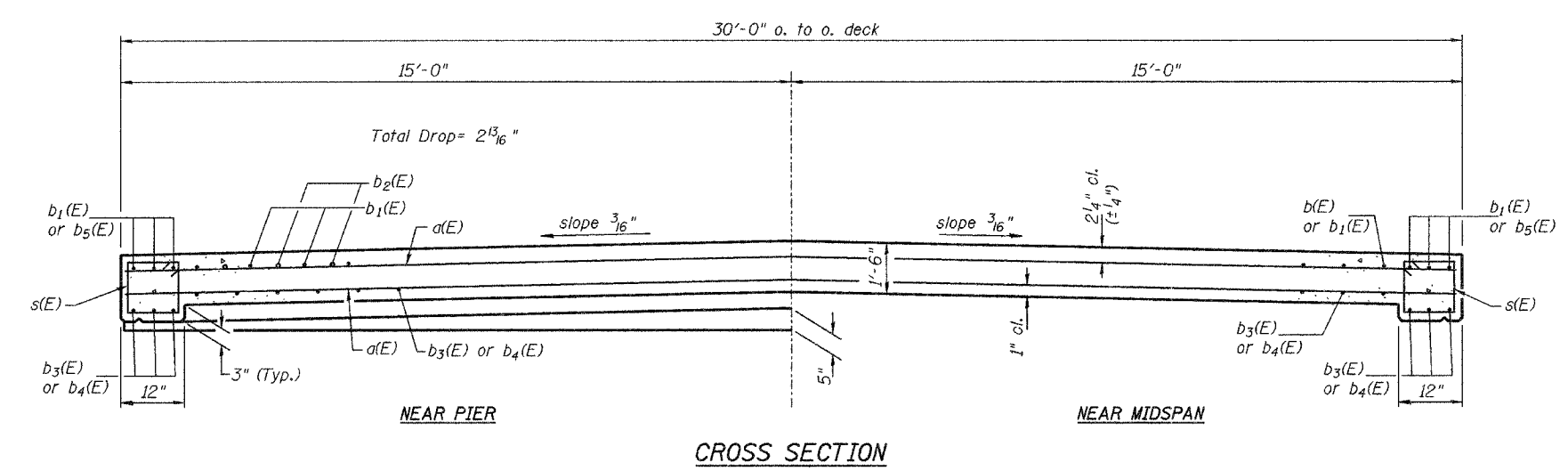
**SECTION A-A**  
All dimensions are at right angles to abutment

\* $v(E)$  bars billed with abutments. See sheet 5 of 8

**SUPERSTRUCTURE BILL OF MATERIAL**

BAR	NO.	SIZE	LENGTH	SHAPE
$a(E)$	172	#5	29'-9"	—
$a_1(E)$	10	#5	32'-10"	—
$b(E)$	58	#5	16'-10"	—
$b_1(E)$	70	#8	40'-6"	—
$b_2(E)$	56	#8	23'-5"	—
$b_3(E)$	110	#8	36'-0"	—
$b_4(E)$	55	#8	40'-9"	—
$b_5(E)$	12	#8	20'-2"	—
$s(E)$	206	#4	5'-2"	□
$x(E)$	62	#5	6'-4"	—
$x_1(E)$	62	#5	6'-9"	—
Concrete Superstructure		CU YD	179.0	
① Reinforcement Bars, Epoxy Coated		POUND	36,530	

① See Special Provisions



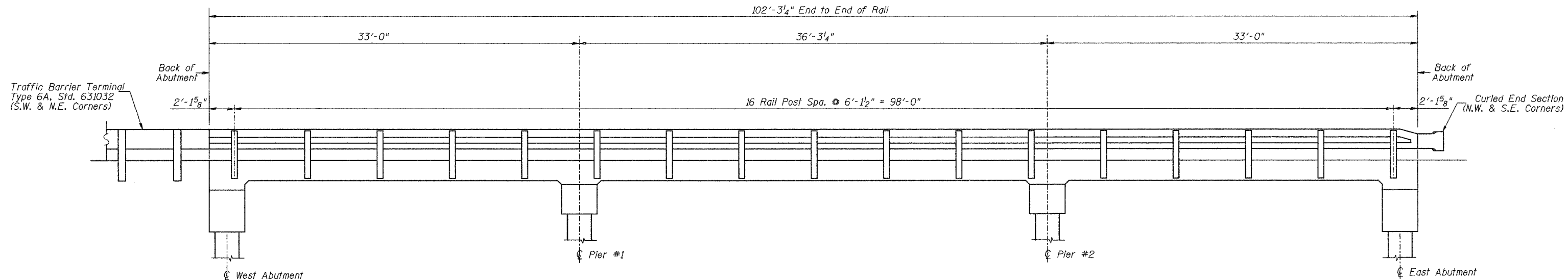
**SECTION B-B**  
All dimensions are at right angles to pier.

\*\* $v(E)$  bars billed with piers. See sheet 6 of 8.

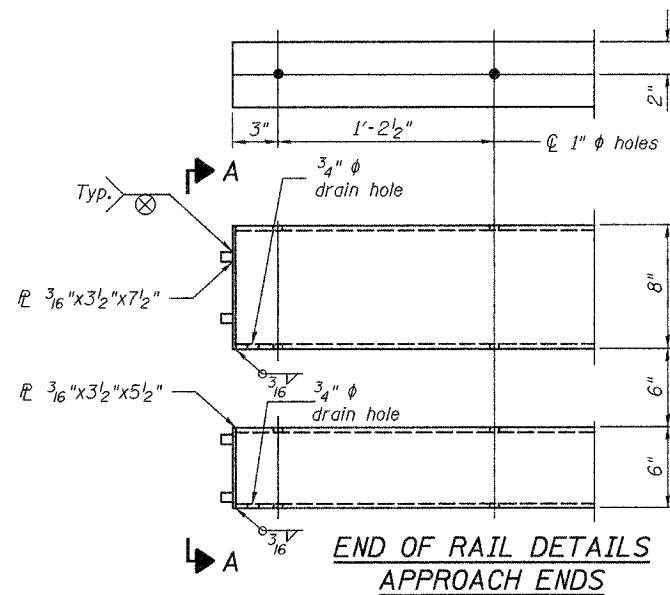
**SUPERSTRUCTURE**  
**C.H. 9 OVER MUD CREEK**  
**SECTION 04-00052-03-BR**  
**IROQUOIS COUNTY**  
**STATION 39+90.04**



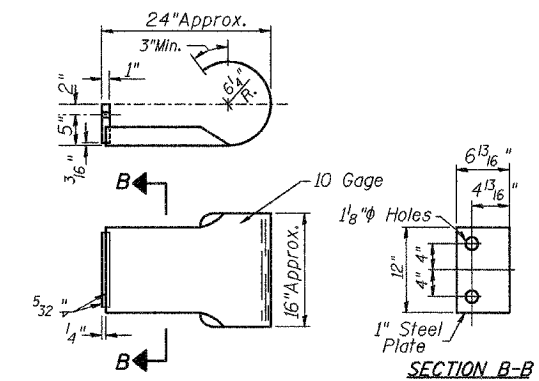
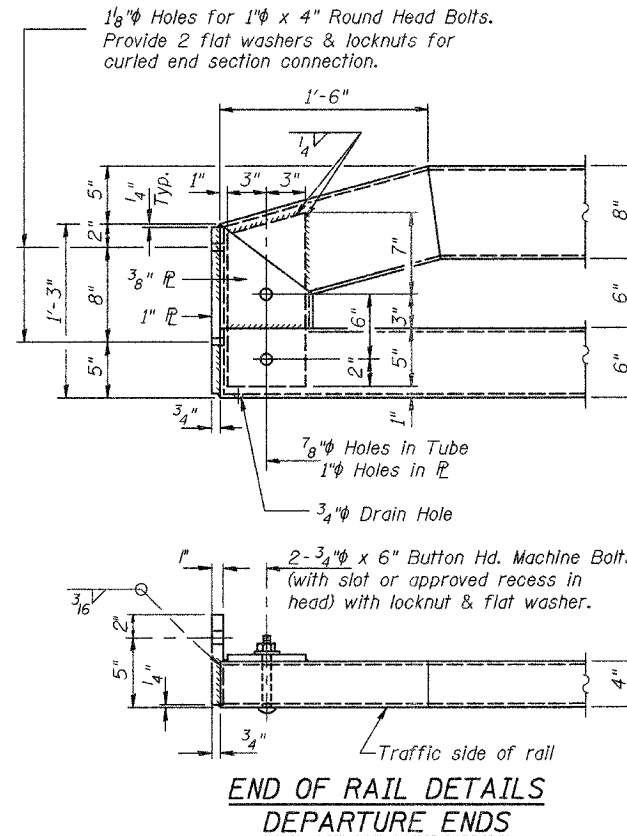
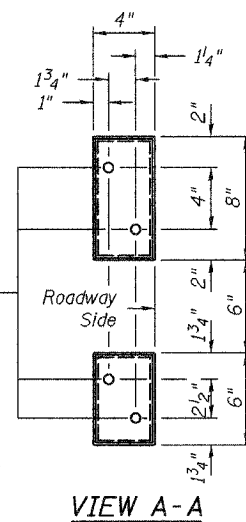




**RAIL POST SPACING**

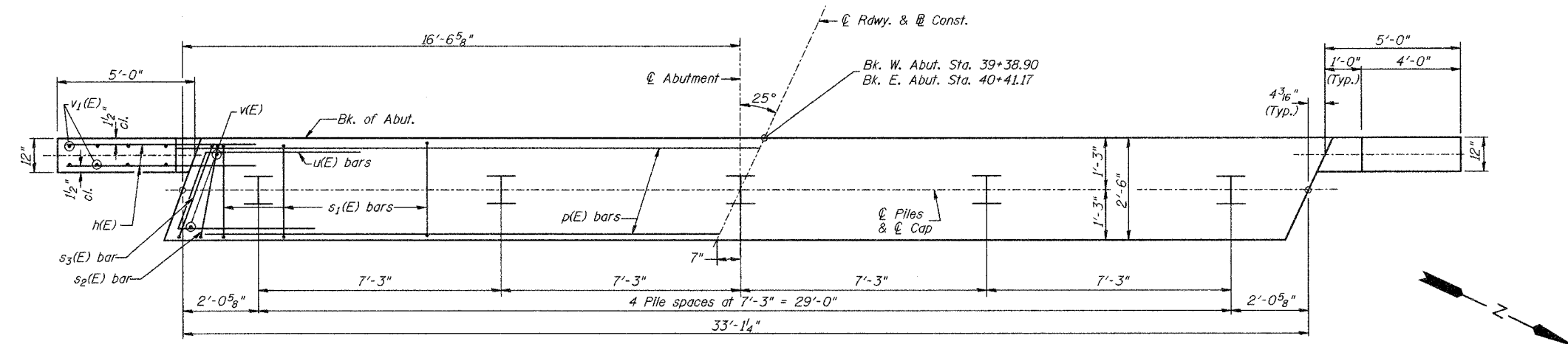


4 - 5/8" reduced base welded studs. Provide 4 - 5/8" washers and self-locking nuts or nuts and jam nuts for guardrail connection shown on Std. 631032

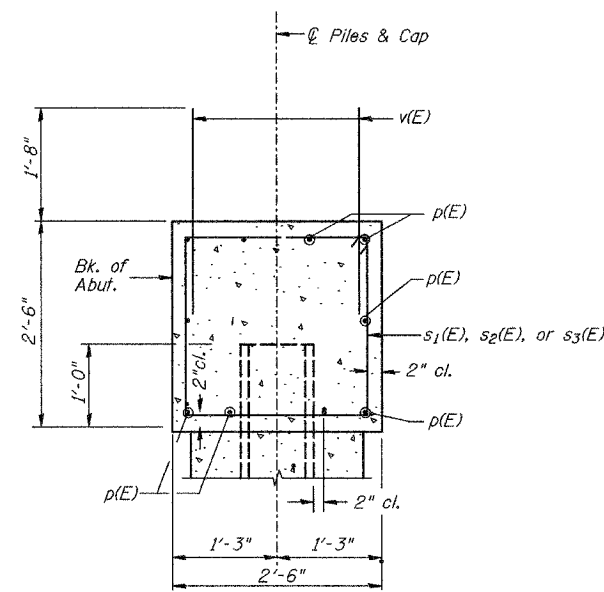


**CURLED END SECTION**  
(2 Req'd) Cost Included with Steel Railing Type SM (Special). Terminal Markers - Direct Applied shall be placed on end of each Curled End Section. (N.W. & S.E. Corner)

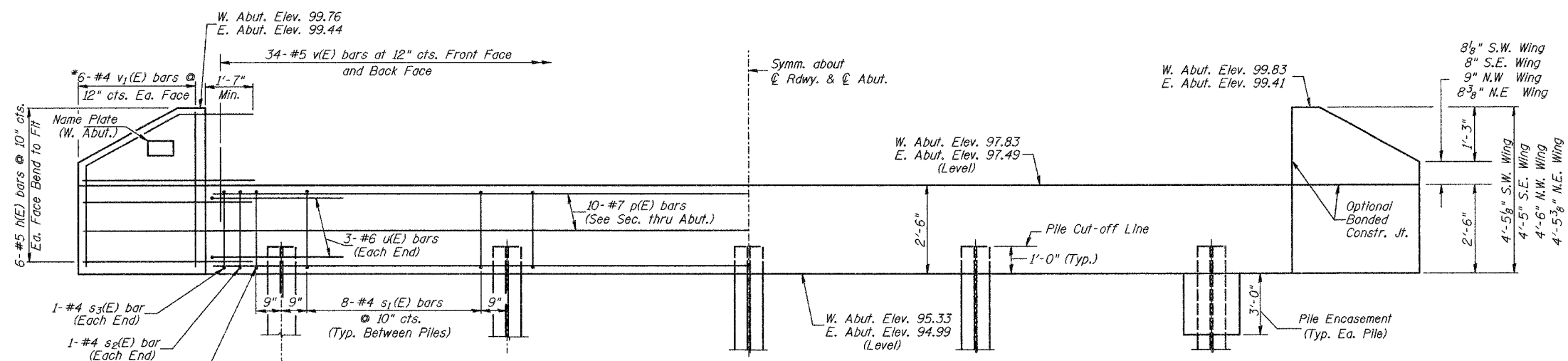
**TYPE SM (SPECIAL) STEEL RAILING**  
**C.H. 9 OVER MUD CREEK**  
**SECTION 04-00052-03-BR**  
**IROQUOIS COUNTY**  
**STATION 39+90.04**  
(Sheet 2 of 2)



**PLAN**



**SECTION THRU ABUT.**  
(At Right Angles)



**ELEVATION**  
(Front View of Abutment)

**TWO ABUTMENTS  
BILL OF MATERIAL**

BAR NO.	SIZE	LENGTH	SHAPE
v(E)	48	#5	6'-9"
p(E)	20	#7	32'-10"
s <sub>1</sub> (E)	68	#4	9'-5"
s <sub>2</sub> (E)	4	#4	9'-7"
s <sub>3</sub> (E)	4	#4	9'-11"
u(E)	12	#6	11'-4"
v <sub>1</sub> (E)	24	#4	7'-1"
Concrete Structures			CU YD 18.3
Reinforcement Bars, Epoxy Coated			POUND 2,780
Structure Excavation			CU YD 70
Name Plates			EACH 1
Furnishing Steel Piles HP10x42			FOOT 236
Driving Piles			FOOT 236
Test Pile Steel HP10x42			EACH 1
Concrete Encasement			CU YD 2.7

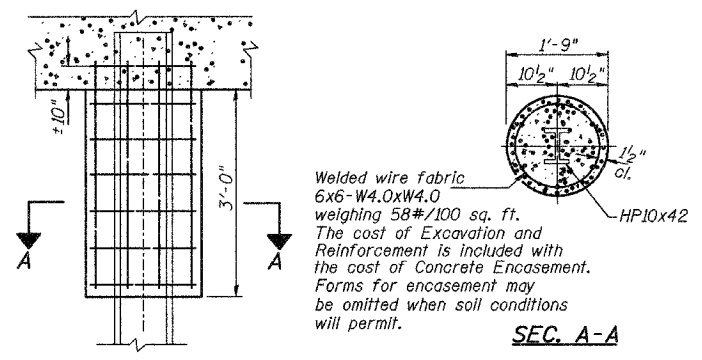
① See Special Provisions

**PILE DATA**  
 Type & Size: Steel HP10x42  
 Nominal Required Bearing: 336 kips  
 Allowable Resistance Available: 112 kips  
 Est. Length: 24' West Abutment  
 29' East Abutment  
 No. Req'd.: 10 (Includes 1 Test Pile at East Abut.)

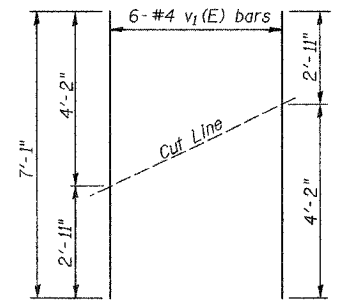
**DESIGN STRESSES**  
 $f'_c = 3,500$  p.s.i.  
 $f_y = 60,000$  p.s.i.

**NOTES**

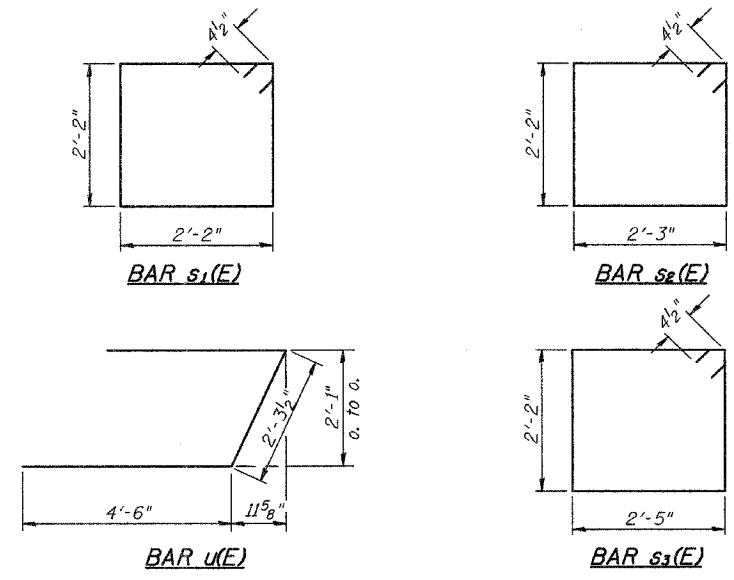
- Reinforcement bars shall conform to ASTM A706 Grade 60 (IL Modified).
- All edges shall have standard  $3/4$ " chamfer.



**PILE ENCASEMENT DETAIL**

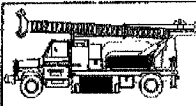


**\* BAR CUTTING DIAGRAM**  
 Order v<sub>1</sub>(E) bars full length. Cut as shown and use remainder of bars in opposite face.



**ABUTMENTS  
C.H. 9 OVER MUD CREEK  
SECTION 04-00052-03-BR  
IROQUOIS COUNTY  
STATION 39+90.04**





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

**BORING LOG**

Sheet 1 of 2

Phone: 815-223-6696  
Fax: 815-223-6659  
E-Mail: Midwest@TheRamp.net

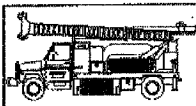
Client: Hutchinson Engineering, Inc  
 Project Name: Section 04-00052-03-BR  
 Project Site: Iroquois County, Illinois

Boring No. B-1  
 Surface Elev. 100.00  
 Auger Depth 41' Rotary Depth NA  
 Start Date 05/29/05 Finish Date 05/29/05

Location: 12' Rt. of Station 9+54

(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		
100.00									Randy Saffranski Diedrich D-120	
99.00			1							
98.00			2							
97.00	Stiff Brown And Gray Clay (Fill)		3	1	SS	1.8	12	S	12	
96.00			4							
95.00			5	2	SS	1.6	9	B	18	
94.00			6							
93.00			7							
92.00			8	3	SS	1.4	10	B	19	
91.00	Hard Brownish Gray Clay Till		9							
90.00			10	4	SS	4.4	18	B	16	
89.00			11							
88.00			12							
87.00			13	5	SS	4.2	18	B	16	
86.00			14							
85.00			15	6	SS	4.7	20	B	14	
84.00			16							
83.00	Dense Brown To Gray Sandy Clay (Weathered Shale)		17							
82.00			18	7	SS	---	33	---	---	
81.00			19							
80.00			20	8	SS	---	45	---	12	

Groundwater Data: Static water level after auger removal - Elevation-86.0.  
 Comments:



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

**BORING LOG**

Sheet 2 of 2

Phone: 815-223-6696  
Fax: 815-223-6659  
E-Mail: Midwest@TheRamp.net

Client: Hutchinson Engineering, Inc  
 Project Name: Section 04-00052-03-BR  
 Project Site: Iroquois County, Illinois


Boring No. B-1  
 Surface Elev. 100.00  
 Auger Depth 41' Rotary Depth NA  
 Start Date 05/29/05 Finish Date 05/29/05

Location: 12' Rt. of Station 9+54

(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		
79.00									Randy Saffranski Diedrich D-120	
78.00			22							
77.00			23	9	SS	---	10R 10"	---	10	
76.00			24							
75.00	Very Dense Brown And Gray Sandy Shale		25	10	SS	---	10Q 7"	---	10	
74.00			26							
73.00			27							
72.00			28	11	SS	---	10Q 8"	---	12	
71.00			29							
70.00			30	12	SS	---	10Q 10"	---	15	
69.00			31							
68.00			32							
67.00			33	13	SS	---	10Q 3"	---	---	
66.00			34							
65.00			35							
64.00			36	14	SS	---	10Q 2"	---	---	
63.00			37							
62.00			38	15	SS	---	10Q 1"	---	---	
61.00			39							
60.00			40	16	SS	---	10Q 2"	---	---	
59.00		41								

Groundwater Data: Static water level after auger removal - Elevation-86.0.  
 Comments:

**SOIL BORING LOGS**  
**C.H. 9 OVER MUD CREEK**  
**SECTION 04-00052-03-BR**  
**IROQUOIS COUNTY**  
**STATION 39+90.04**

 <b>Midwest Testing Services, Inc.</b> 3705 Progress Blvd. Peru, IL 61354	<b>BORING LOG</b>	Phone: 815-223-6696
	Sheet <u>1</u> of <u>2</u>	Fax: 815-223-6659
		E-Mail: Midwest@TheRamp.net


Client: Hutchinson Engineering, Inc  
 Project Name: Section 04-00052-03-BR # 2261  
 Project Site: Iroquois County, Illinois

Boring No. B-2  
 Surface Elev. 99.70  
 Auger Depth 41' Rotary Depth NA  
 Start Date 05/29/05 Finish Date 05/29/05

Location: 12' Lt. of Station 10+50

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 (%)		
99.70										Randy Safranski Diedrich D-120	
98.70	Stiff Brown Clay (Fill)		1	SS	1.7	8	B	20			
97.70			2	SS	1.3	6	B	23			
96.70			3	SS	1.5	8	B	24			
95.70	Stiff Black Silty Clay		4	SS	4.7	18	B	15			
94.70			5	SS	4.6	23	B	12			
93.70	Stiff Brown Clay		6	SS	5.2	24	S	9			
92.70			7	SS	5.2	24	S	9			
91.70	Medium Brown Fine To Coarse Sand		8	SS	---	52	---	10			
90.70			9	SS	---	52	---	10			
89.70	Hard Brownish Gray Clay Till		10	SS	---	52	---	10			
88.70			11	SS	---	52	---	10			
87.70	Very Dense Brown To Gray Sandy Clay (Weathered Shale)		12	SS	---	52	---	10			
86.70			13	SS	---	52	---	10			
85.70			14	SS	---	52	---	10			
84.70			15	SS	---	52	---	10			
83.70			16	SS	---	52	---	10			
82.70			17	SS	---	52	---	10			
81.70			18	SS	---	52	---	10			
80.70			19	SS	---	52	---	10			
79.70			20	SS	---	52	---	10			

Groundwater Data: Static water level after auger removal - Elevation-86.0.  
 Comments:

 <b>Midwest Testing Services, Inc.</b> 3705 Progress Blvd. Peru, IL 61354	<b>BORING LOG</b>	Phone: 815-223-6696
	Sheet <u>2</u> of <u>2</u>	Fax: 815-223-6659
		E-Mail: Midwest@TheRamp.net

Client: Hutchinson Engineering, Inc  
 Project Name: Section 04-00052-03-BR  
 Project Site: Iroquois County, Illinois

Boring No. B-2  
 Surface Elev. 99.70  
 Auger Depth 41' Rotary Depth NA  
 Start Date 05/29/05 Finish Date 05/29/05

Location: 12' Lt. of Station 10+50

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 (%)		
78.70										Randy Safranski Diedrich D-120	
77.70	Dense Brown And Gray Sandy Clay (Weathered Shale)		22								
76.70			23	9	SS	---	41	---	14		
75.70	Very Dense Brown And Gray Sandy Shale		24								
74.70			25	10	SS	---	36	---	15		
73.70			26								
72.70			27	11	SS	---	100 8"	---	---		
71.70			28								
70.70			29	12	SS	---	100 10"	---	12		
69.70			30								
68.70			31	13	SS	---	100 4"	---	---		
67.70			32								
66.70			33	14	SS	---	100 2"	---	---		
65.70			34								
64.70			35	15	SS	---	100 1"	---	---		
63.70			36								
62.70			37	16	SS	---	100 1"	---	---		
61.70			38								
60.70			39								
59.70			40								
58.70			41								

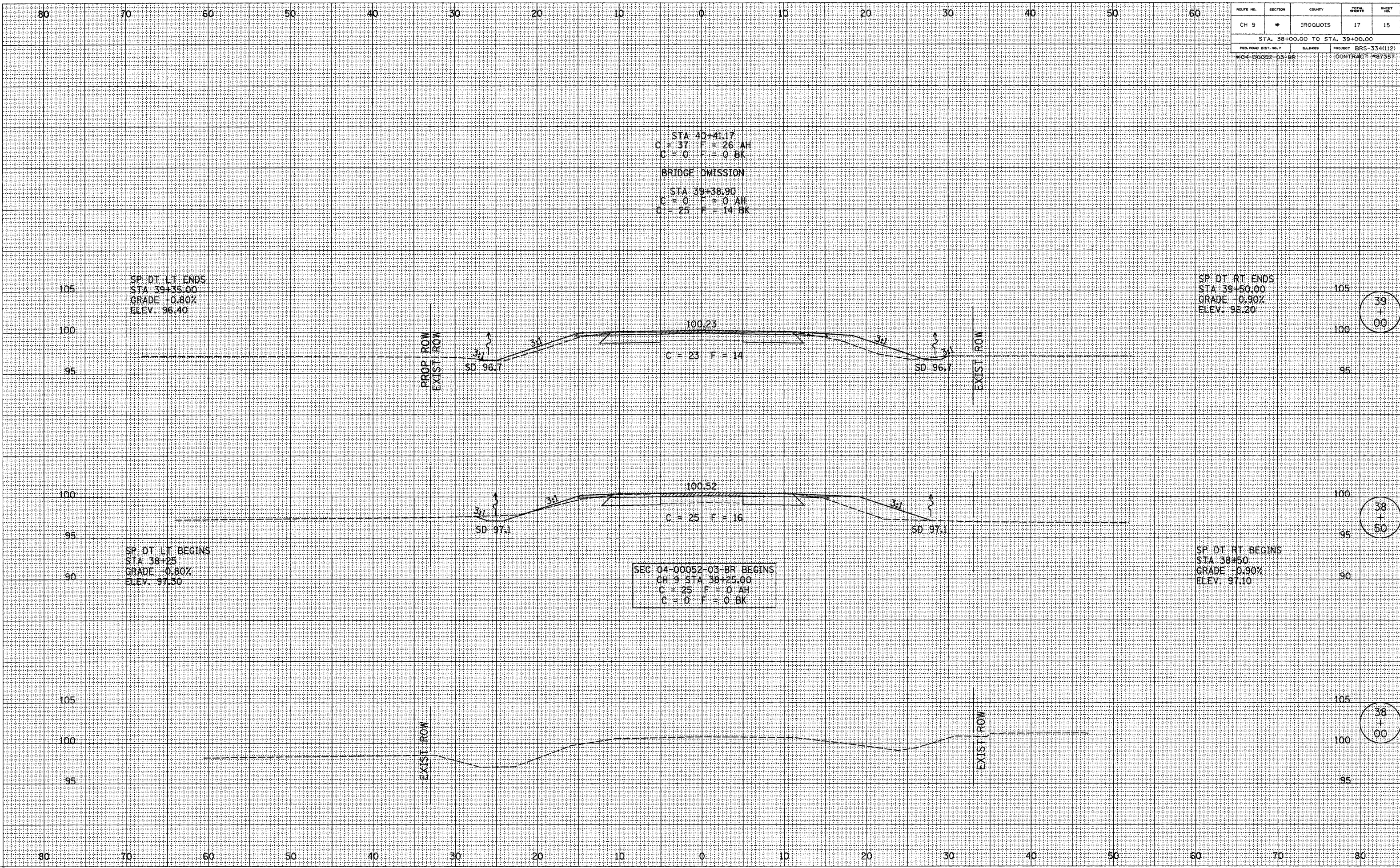
Groundwater Data: Static water level after auger removal - Elevation-86.0.  
 Comments:

SOIL BORING LOGS  
 C.H. 9 OVER MUD CREEK  
 SECTION 04-00052-03-BR  
 IROQUOIS COUNTY  
 STATION 39+90.04

ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
CH 9	*	IROQUOTS	17	15
STA. 38+00.00 TO STA. 39+00.00				
FED. ROAD DIST. NO. 7	ILLINOIS	PROJECT	BRS-334(112)	
04-00052-03-BR		CONTRACT	#87557	

SURVEYED  
 SURVEY  
 PLOTTED  
 NOTE BOOK  
 AREAS CHECKED  
 NO.

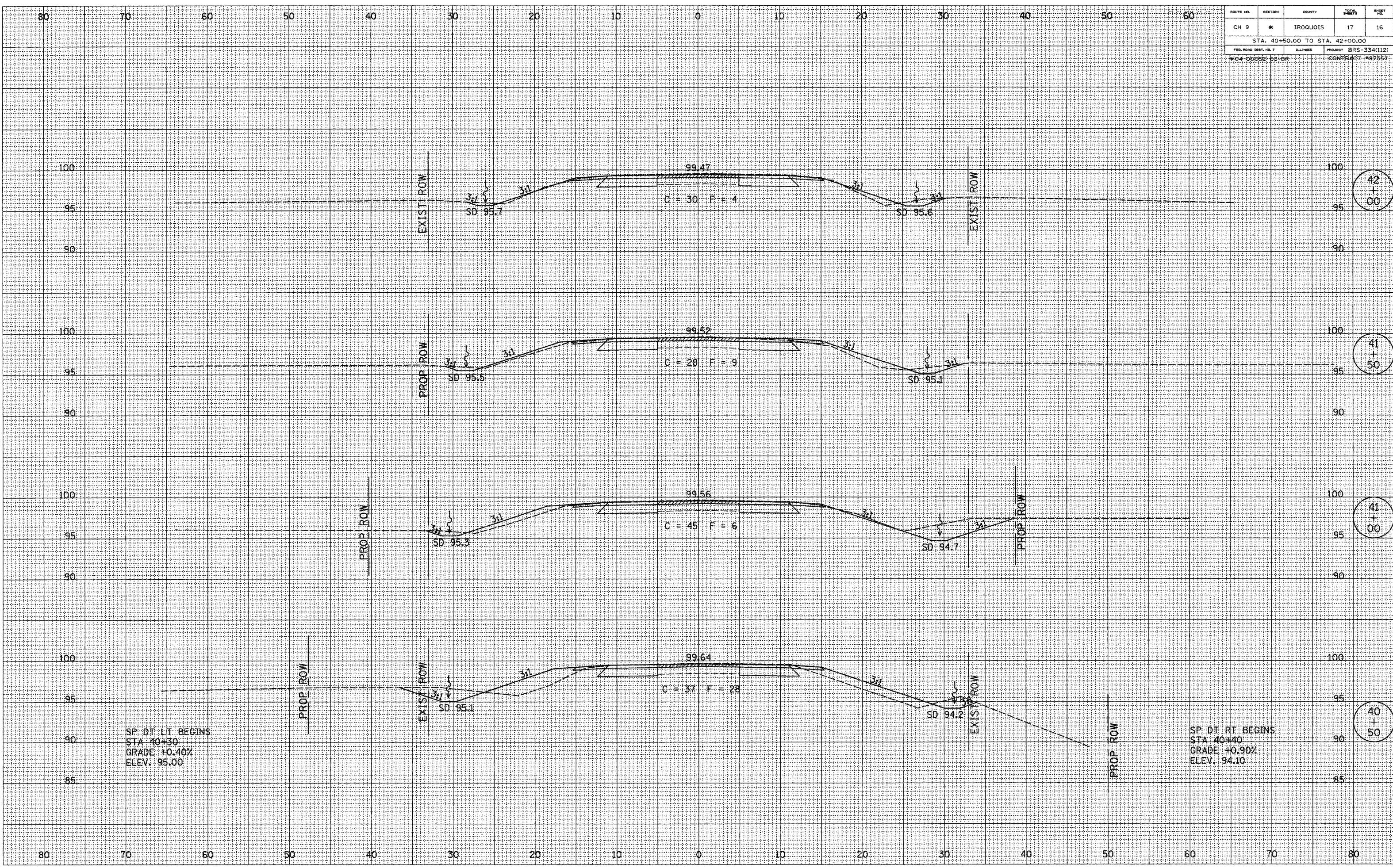
SURVEYED  
 SURVEY  
 PLOTTED  
 NOTE BOOK  
 AREAS CHECKED  
 NO.



ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
CH 9	*	IROQUOIS	17	16
STA. 40+50.00 TO STA. 42+00.00				
FED. ROAD DIST. NO. 7			PROJECT	BRS-334(112)
MO-00052-03-8A			CONTRACT	087557

SURVEYED	
PLOTTED	
IN SCALE	
AREAS	
AREAS CHECKED	
NO.	

SURVEYED	
PLOTTED	
IN SCALE	
AREAS	
AREAS CHECKED	
NO.	



SP. DT. LT. BEGINS  
 STA 40+30  
 GRADE +0.40%  
 ELEV. 95.00

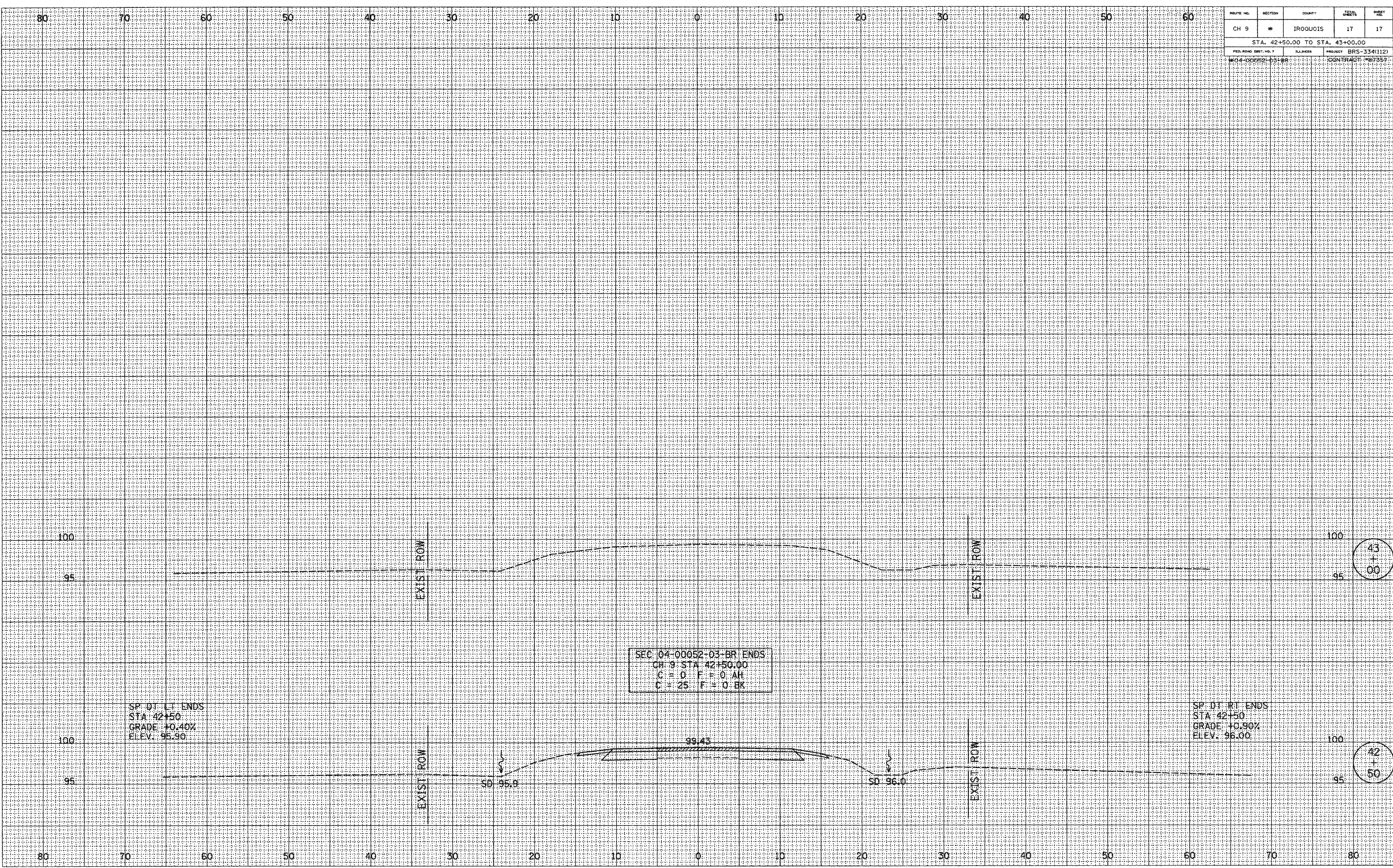
SP. DT. RT BEGINS  
 STA 40+40  
 GRADE +0.90%  
 ELEV. 94.10



ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
CH 9	*	IROQUOIS	17	17
STA. 42+50.00 TO STA. 43+00.00				
FED. ROAD DIST. NO. 7	BLANKS	PROJECT	BRS-334(112)	
#04-00052-03-BR			CONTRACT #87357	

SURVEYED	PLOTTED	DATE	AREAS CHECKED
NO.			

SURVEYED	PLOTTED	DATE	AREAS CHECKED
NO.			



43  
+  
00

42  
+  
50