

# STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION

PLANS FOR PROPOSED

## INDIAN CREEK BRIDGE

FUNCTIONAL CLASS: LOCAL ROAD

ADT (2002): <200

DESIGN SPEED: 30 MPH

BRIDGE REHABILITATION & REPLACEMENT PROGRAM

TOWNSHIP ROAD 47

SALINE COUNTY - RECTOR TOWNSHIP

SECTION NO. 03-11117-00-BR

PROJECT NO. BROS-165(29)

JOB NO. C-99-517-07

CONTRACT NO. 99389

**SCALES**



**INDEX TO SHEETS**

- 1 COVER
- 2 SUMMARY OF QUANTITIES & TYPICAL SECTION
- 3 GENERAL PLAN & ELEVATION
- 4-5 DECK BEAM DETAILS
- 6 STEEL RAILING
- 7 ABUTMENT DETAILS
- 8-10 PLAN & PROFILE
- 11-16 CROSS SECTIONS
- 17-18 SWPPP

**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

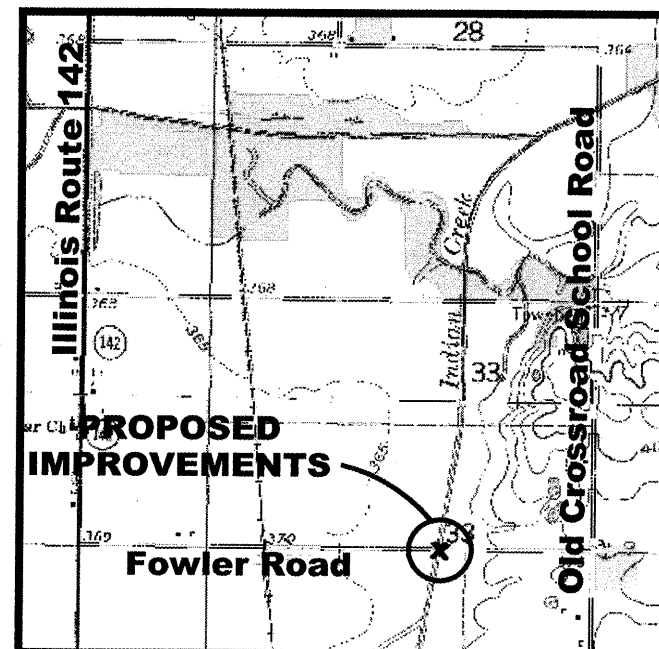
APPROVED 08-20-09

APPROVED [Signature]  
LOCAL AGENCY REPRESENTATIVE  
08-20-09  
Michael Murray  
ROAD COMMISSIONER

PASSED MARCH 22, 2010

Dennis W. Hillbrener  
DISTRICT 9 ENGINEER OF LOCAL ROADS & STREETS

RELEASING FOR BID  
BASED ON LIMITED  
REVIEW March 22, 2010  
Mary C. Lame  
MARY C. LAMIE, P.E.  
DEPUTY DIRECTOR OF HIGHWAYS  
REGION FIVE ENGINEER



**LOCATION MAP**  
Scale 1 inch = 2,000 ft  
Length Of Improvements = 800 ft (0.15 mi)

STANDARDS IN SPECIAL PROVISIONS

- 280001-05
- 515001-03
- 701901-01
- BLR 21-8

ALL EXISTING UTILITIES AND LOCATIONS  
TO BE CONFIRMED BY J.U.L.I.E.  
800-892-0123

**BROWN & ROBERTS, INC.**  
CONSULTING ENGINEERS LAND SURVEYORS  
ONE WESTRIDGE ROAD HARRISBURG, IL 62946 (618) 252-8111

BRI Job No. 06207

Jim W. Brown  
Jim. W. Brown, President  
Illinois Professional Design Firm  
Land Survey & Prof. Eng. Corp  
Number 184-002518  
Expires April 30, 2011

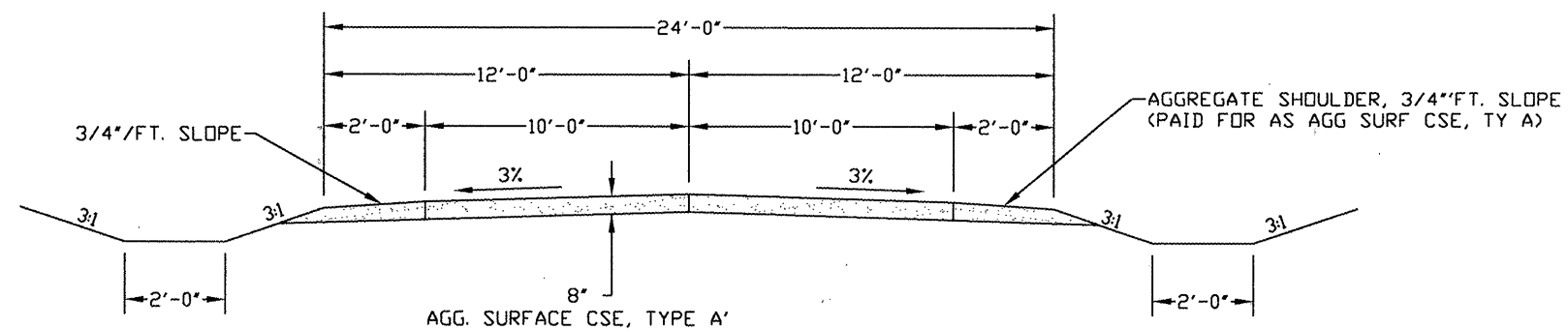
ROUTE	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
TR 47	03-11117-00-BR	SALINE	18	2
RECTOR TOWNSHIP			FOWLER ROAD	

CONTRACT NO. 99389

## SUMMARY OF QUANTITIES

CODE NO.	PAY ITEM	UNIT	QUANTITY
20200100	EARTH EXCAVATION	CU YD	2100
25001000	SEEDING CLASS 2 SPECIAL	ACRE	0.9
28000250	TEMPORARY EROSION CONTROL SEEDING	POUND	150
28000305	TEMPORARY DITCH CHECKS	FOOT	80
28100807	STONE DUMPED RIPRAP, CLASS A4	TON	460
40200100	AGGREGATE SURFACE COURSE, TYPE A	TON	950
50100200	REMOVAL OF EXISTING STRUCTURES	L SUM	1
50105220	PIPE CULVERT REMOVAL	FOOT	48
50300225	CONCRETE STRUCTURES	CU YD	18.2
50300280	CONCRETE ENCASEMENT	CU YD	2.8
50400505	PRECAST PRESTRESSED CONCRETE DECK BEAMS (27" DEPTH)	SQ FT	1440
50800105	REINFORCEMENT BARS	POUND	2300
* 50900205	STEEL RAILING, TYPE S1	FOOT	120
51201400	FURNISH STEEL PILES HP10X42	FOOT	280
51202305	DRIVING PILES	FOOT	280
51500100	NAME PLATES	EACH	1
542C0217	PIPE CULVERTS, CLASS C, TYPE 1 12"	FOOT	68
54215547	METAL END SECTIONS 12"	EACH	4
67100100	MOBILIZATION	L SUM	1

\* SPECIALTY ITEMS



TYPICAL SECTION

NO SCALE

B.M.-

Existing Structure-

Salvage- No Salvage

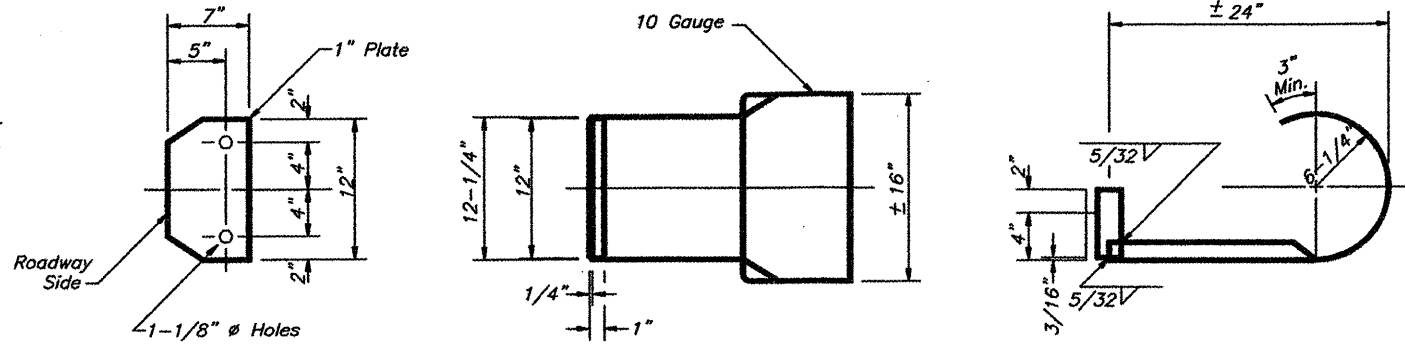
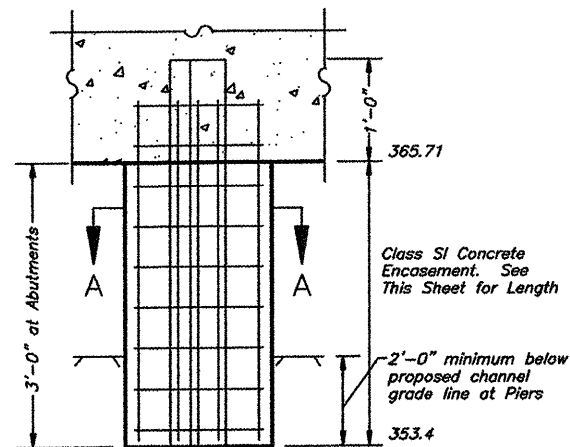
### CURLED END SECTION DETAILS

Note: Curled End Sections Shall Be Incidental To The Contract Price.

ROUTE	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
TR 47	03-11117-00-BR	SALINE	18	3
RECTOR TOWNSHIP		FOWLER ROAD		

CONTRACT NO. 99389

### DETAIL OF HP PILE ENCASEMENT



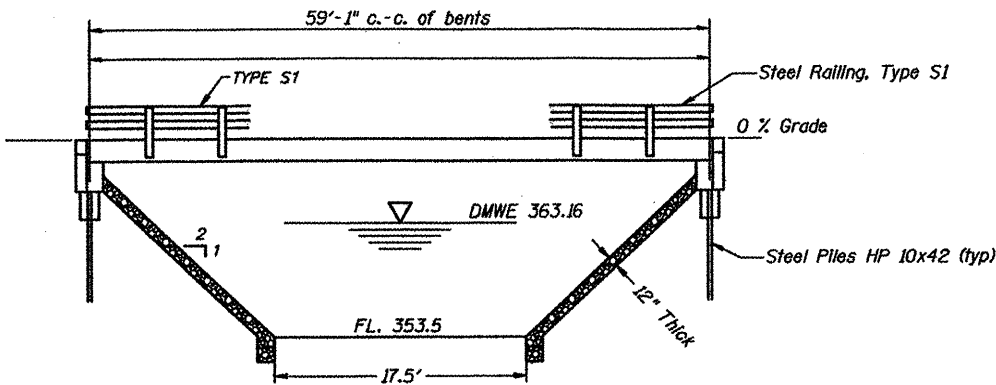
### GENERAL NOTES

- The Contractor shall drive 0 test piles, as specified, in a permanent location as directed by the Engineer before ordering the remaining piles.
- See Special Provisions for boring logs.
- A Corrosion inhibitor, as covered in the Special Provisions, shall be used in the concrete for precast prestressed concrete deck beams.
- The Steel H-piles shall be according to AASHTO M270 Grade 50.

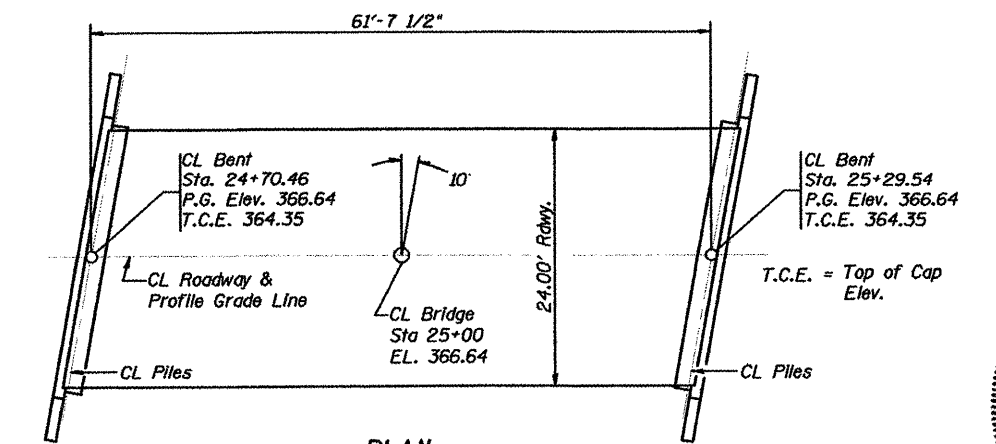
### TOTAL BILL OF MATERIAL

Item	Unit	Super	Sub.		Total
			Piers	Abuts.	
Removal of Existing Structures	Each				1
Concrete Structures	Cu. Yd.			18.2	18.2
Precast Prestressed Concrete Deck Beams (27" Depth)	Sq. Ft.	1440			1440
Steel Bridge Rail, Type S-1	Foot	120			120
Reinforcement Bars	Pound			1980	1980
Furnishing Steel piles HP 10X42	Foot			280	280
Driving Piles	Foot			280	280
Name Plates	Each			1	1
Concrete Encasement	Cu. Yd.			2.8	2.8

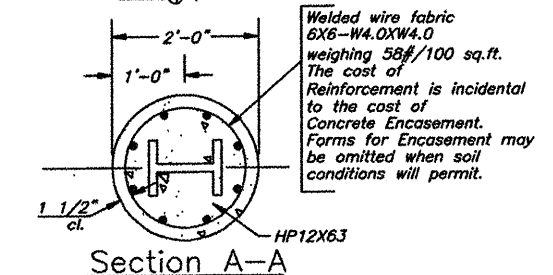
2300



### ELEVATION



### PLAN



### QUANTITIES/LIN. FT. OF ENCASEMENT

PILE SIZE	ITEM	QUANTITY
HP 10	CONCRETE ENCASEMENT	0.086 C.Y.

(STEEL PILES)

PILE SIZE	ITEM	QUANTITY
12" DIA.	CONCRETE ENCASEMENT	0.087 C.Y.

(METAL SHELL PILES)

### DESIGN SPECIFICATIONS

2007 LRFD Specification - 4th ed.

### LOADING HL-93

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

### SEISMIC DATA

Seismic Performance Category (SPC) = B  
 Bedrock Acceleration Coefficient (A) = 0.159  
 Site Coefficient (S) = 1.2

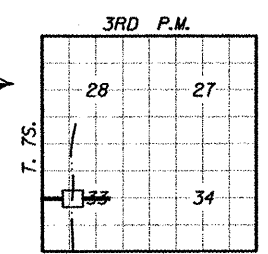
### PILE DATA (2-ABUTS.)

Type	STEEL HP 10X42
Capacity	45 Tons
Estimated Length	35 Feet
Number Required	8
Nominal Required Bearing	335 KIPS
Allowable Resistance Available	111 KIPS

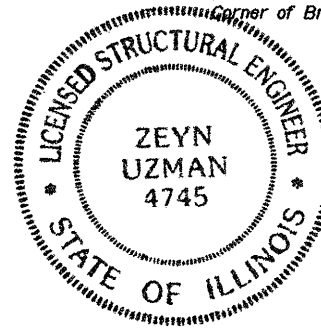
STATION 25+00  
 INDIAN CREEK  
 SEC. 03-11117-00-BR BUILT 2009  
 RECTOR TOWNSHIP ROAD DIST.  
 SALINE COUNTY  
 LOADING HL93  
 STR. NO. 083-3228

### LETTERING FOR NAME PLATE

Locate Name Plate at SOUTHWEST Corner of Bridge



### LOCATION SKETCH



I certify that to the best of knowledge, information and belief, this bridge/box culvert design is structurally adequate for the design loading shown on the plans. The design is an economical one for the style of structure and complies with requirements of the current AASHTO Standard Specifications for Highway Bridges.

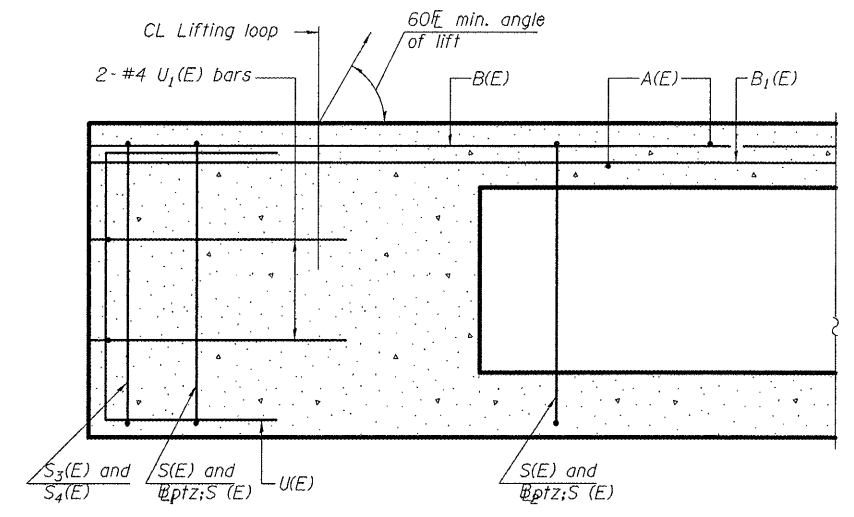
Illinois Structural No. 4745  
 Expires 11/30/2010

### WATERWAY INFORMATION

Flood Yr.	Freq.	Q C.F.S.	Opening Sq. Ft.		Nat. H.W.E.	Head - Ft.		Headwater El.	
			Exist.	Prop.		Exist.	Prop.	Exist.	Prop.
Design	15	1391	290	413	363.16	0.25		363.41	363.41
Base	100	2102	196	413	363.57	0.59	0.41	364.16	363.98
Overlapping									
Max. Calc.	500	2653	229	656	363.88	0.46			364.34

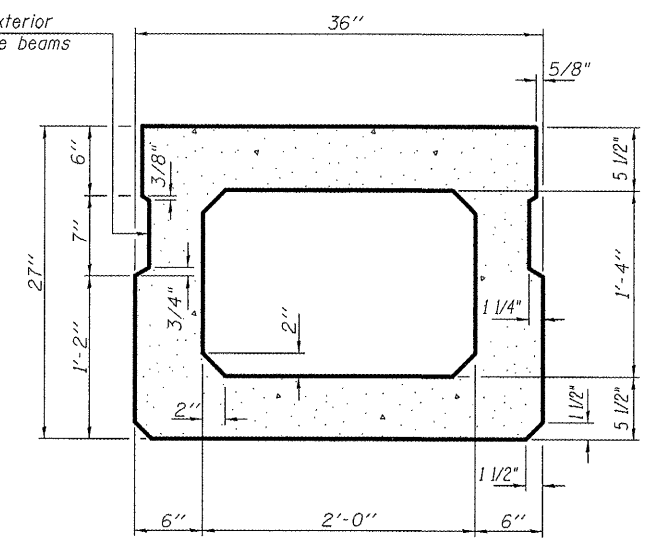
Drainage Area = 8.8 S.M. Low Grade Elev. = 361.2 @ Sta. 21+00

GENERAL PLAN & ELEVATION	
TR 47	
OVER INDIAN CREEK	
SECTION 03-11117-00-BR	
SALINE COUNTY	
STATION 25+00	

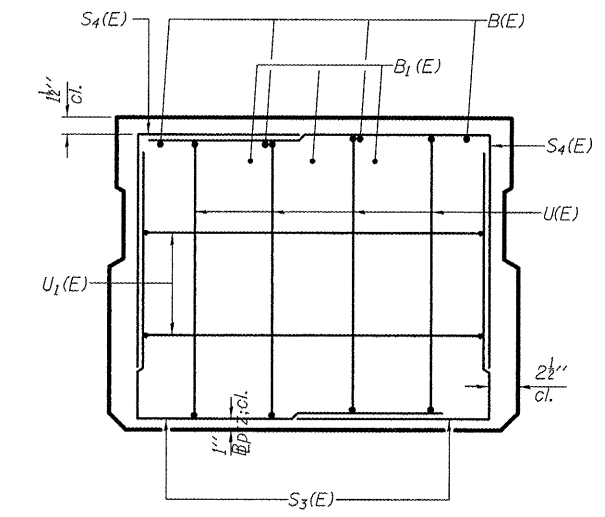


SECTION C-C

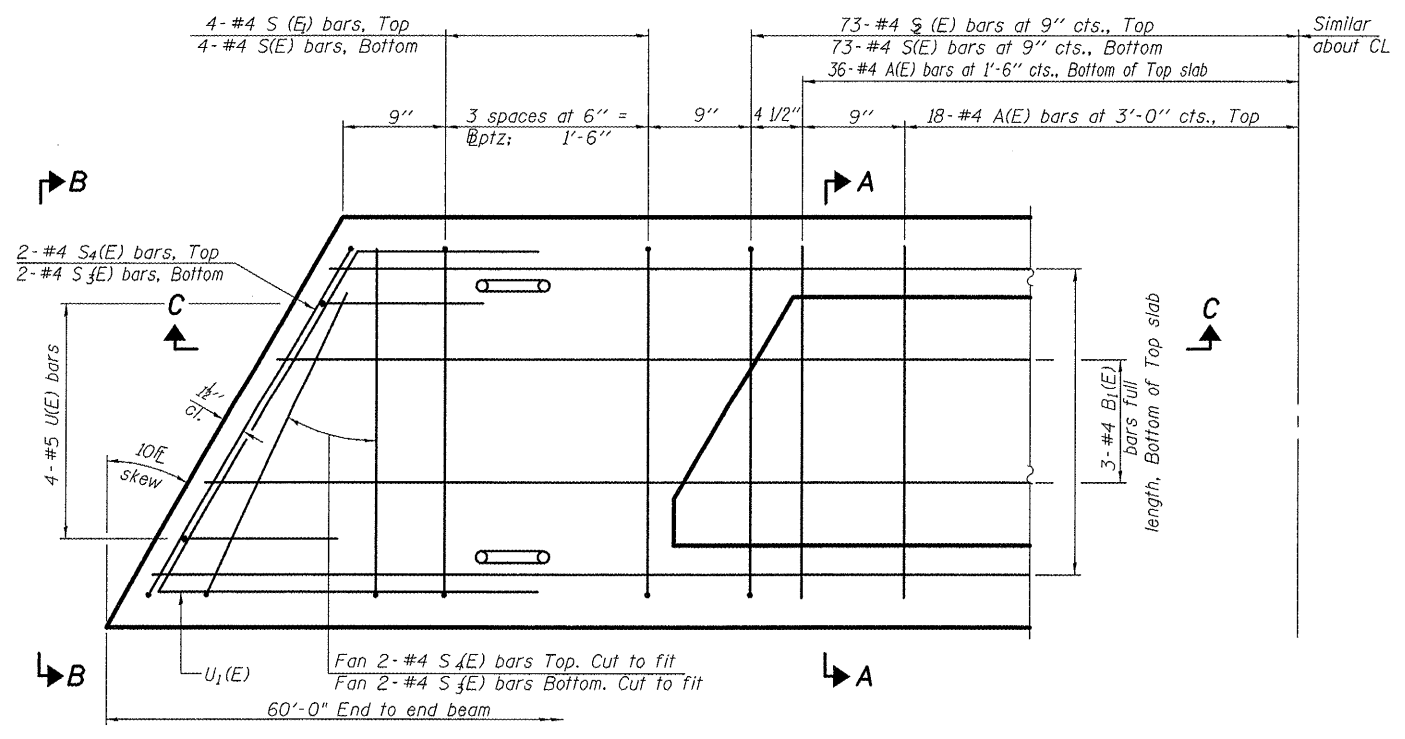
Omit key on exterior face of outside beams



SECTION A-A  
(Showing dimensions)

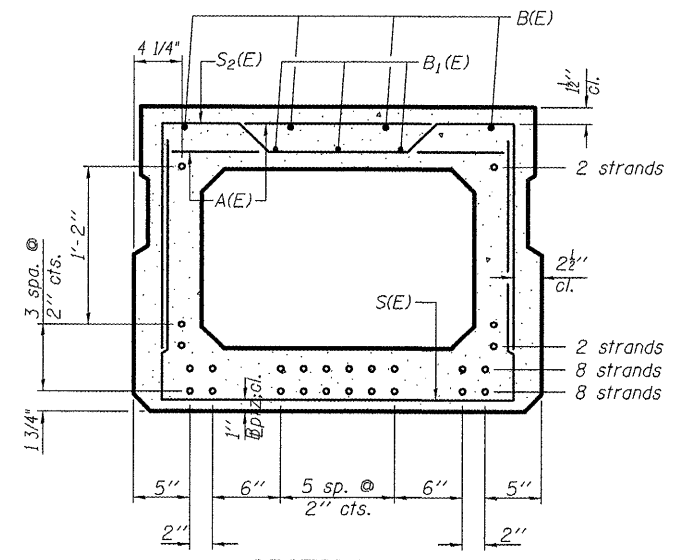


VIEW B-B



PLAN VIEW

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



SECTION A-A

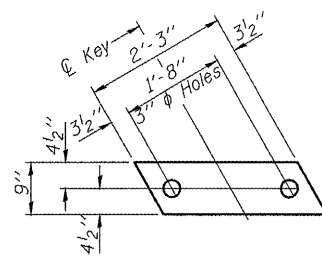
(Showing reinforcement and permissible strand locations)  
Note: Place the number of strands specified in each row  
@ptz: symmetrically about the centerline of beam in the  
@ptz: permissible strand locations shown.

BAR LIST  
@ptz: ONE BEAM ONLY  
(For information only)

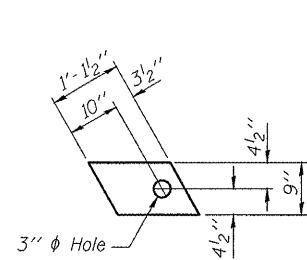
Bar	No.	Size	Length	Shape
A(E)	54	#4	2'-7"	—
B(E)	12	#5	21'-8"	—
B1(E)	12	#4	21'-8"	—
S(E)	81	#4	6'-5"	┌
S1(E)	8	#4	5'-11"	┌
S2(E)	73	#4	6'-2"	┌
S3(E)	8	#4	4'-5"	┌
S4(E)	8	#4	4'-2"	┌
U(E)	8	#5	4'-6"	┌
U1(E)	4	#4	5'-1"	┌

Note: See sheet 5 of 18 for additional details and Bill of Material.

27" X 36" PPC DECK BEAM  
STRUCTURE NO. 083-3228



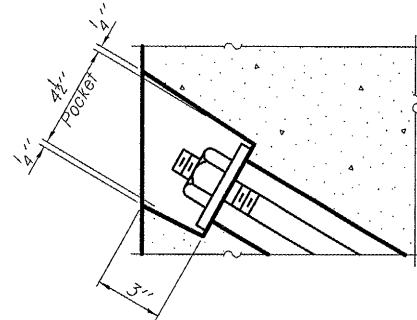
**FABRIC BEARING PAD**  
(Interior)



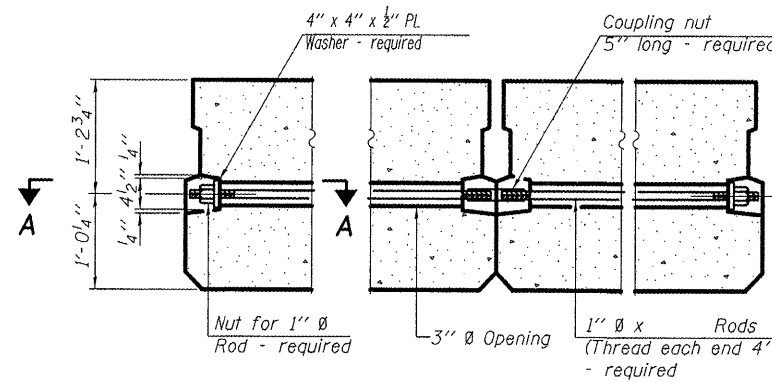
**FABRIC BEARING PAD**  
(Exterior)

**FIXED**

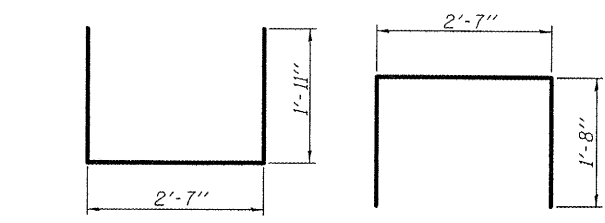
Note: Omit holes when using expansion bearings.



**SECTION A-A**

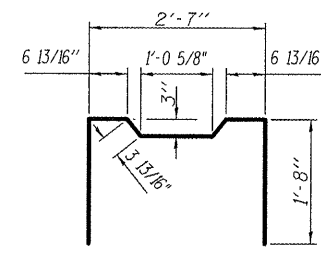


**TYPICAL TRANSVERSE TIE ASSEMBLY**



**BAR S1(E)**

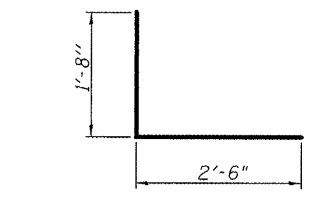
**BAR S2(E)**



**BAR S3(E)**

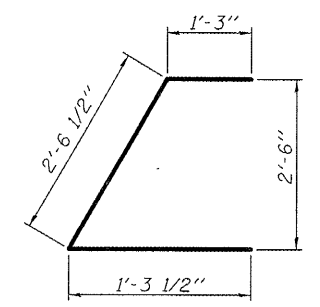
**BAR S4(E)**

**BAR U1(E)**

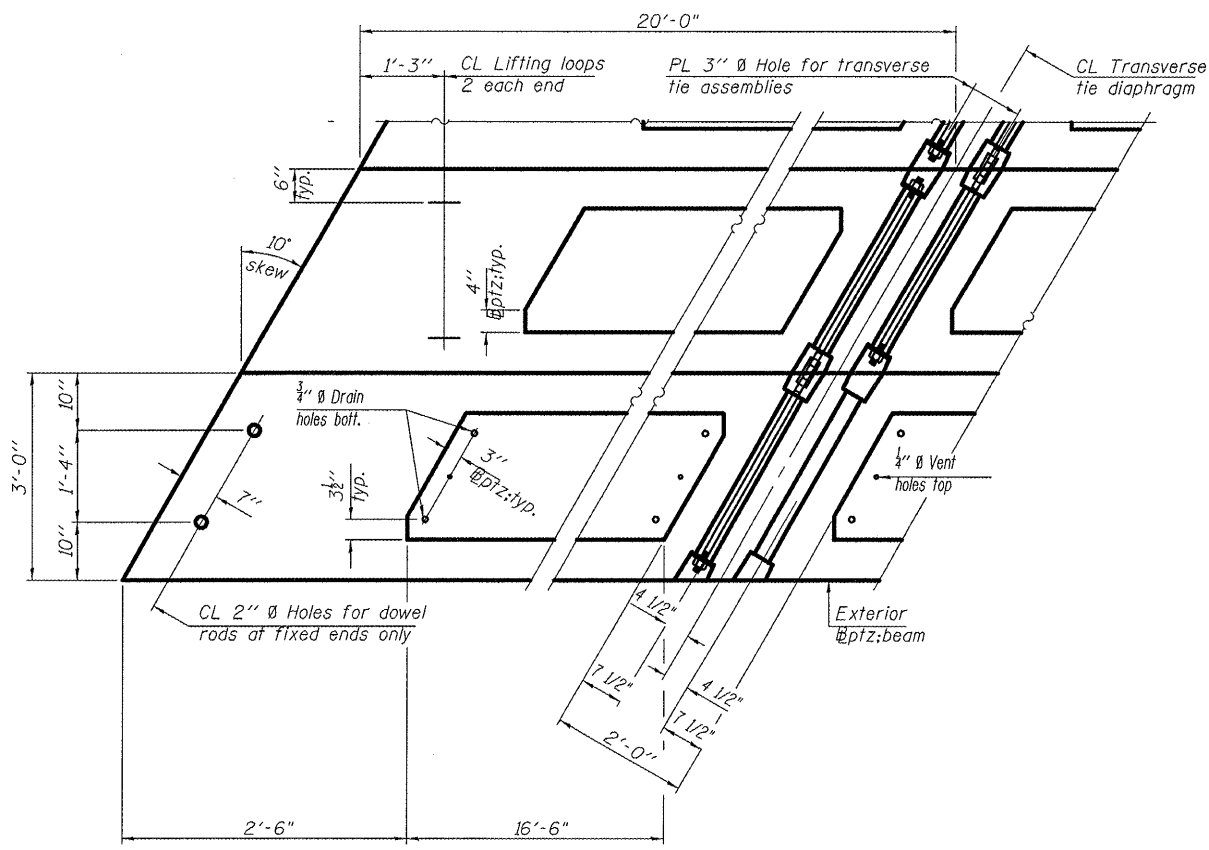


**BAR S4(E)**

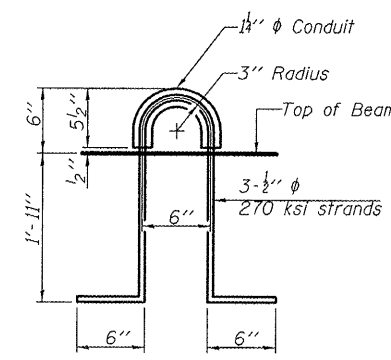
**BAR U2(E)**



**BAR U1(E)**



**PLAN VIEW**



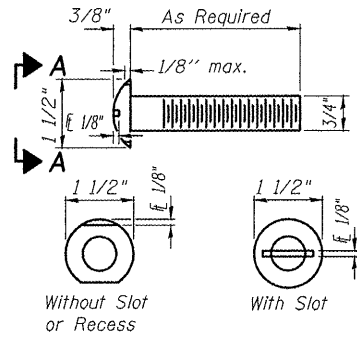
**LIFTING LOOP DETAIL**

**NOTES**

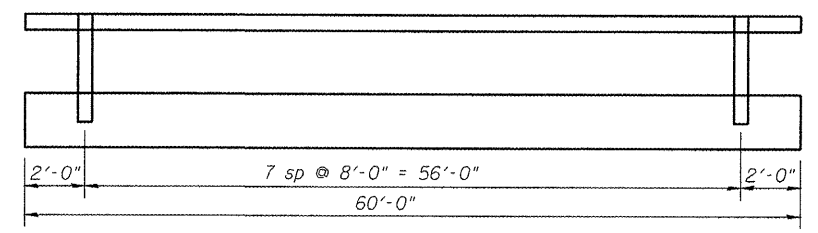
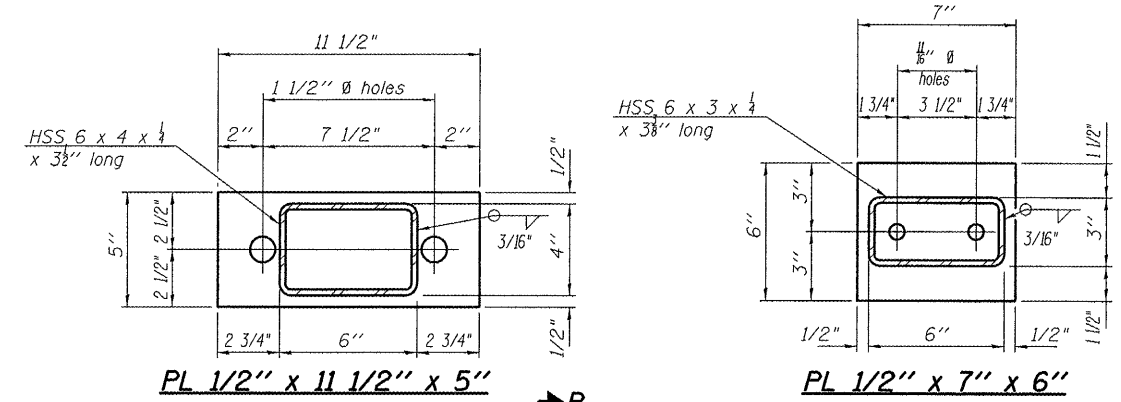
- Prestressing steel shall be upcoated high strength, low relaxation 7-wire strand, Grade 270. The nominal diameter shall be 1/2" and the nominal cross-sectional area shall be 0.153 sq. in.
- The 1" diameter rods in the transverse tie assembly shall be tightened to a snug fit and the threads set. Pockets on exterior faces of bridge shall be filled with grout after transverse tie assembly is in place.
- Reinforcement bars shall conform to ASTM A 706, Grade 60. (See Special Provisions).
- Two 3" fabric adjusting shims of the dimensions of the exterior bearing pad shall be provided for each bearing pad location.
- A minimum 2 1/2" diameter lifting pin shall be used to engage the lifting loops during handling.
- Corrosion inhibitor, per Article 1020.0516(X12) 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.
- See Sheet 6 of 18 for railing inserts.

**BILL OF MATERIAL**

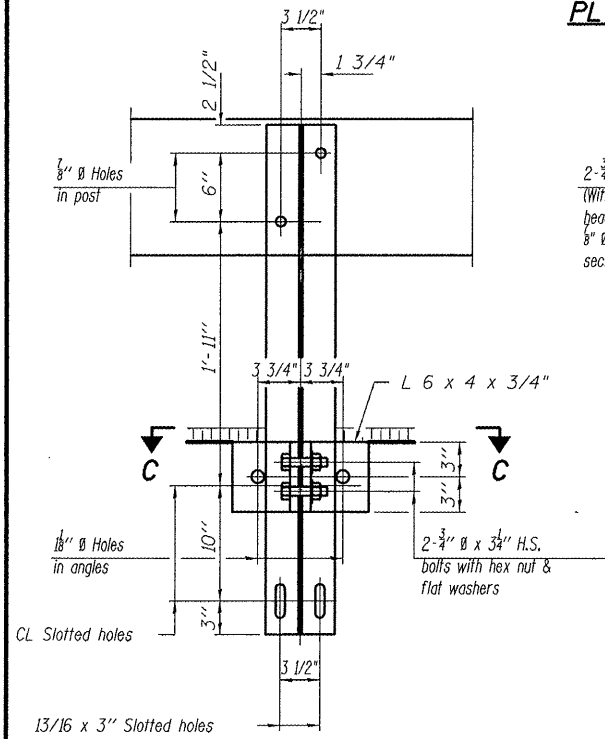
Pre-cast Prestressed Conc. Deck Bms. (27" depth)	Sq. Ft.	1440



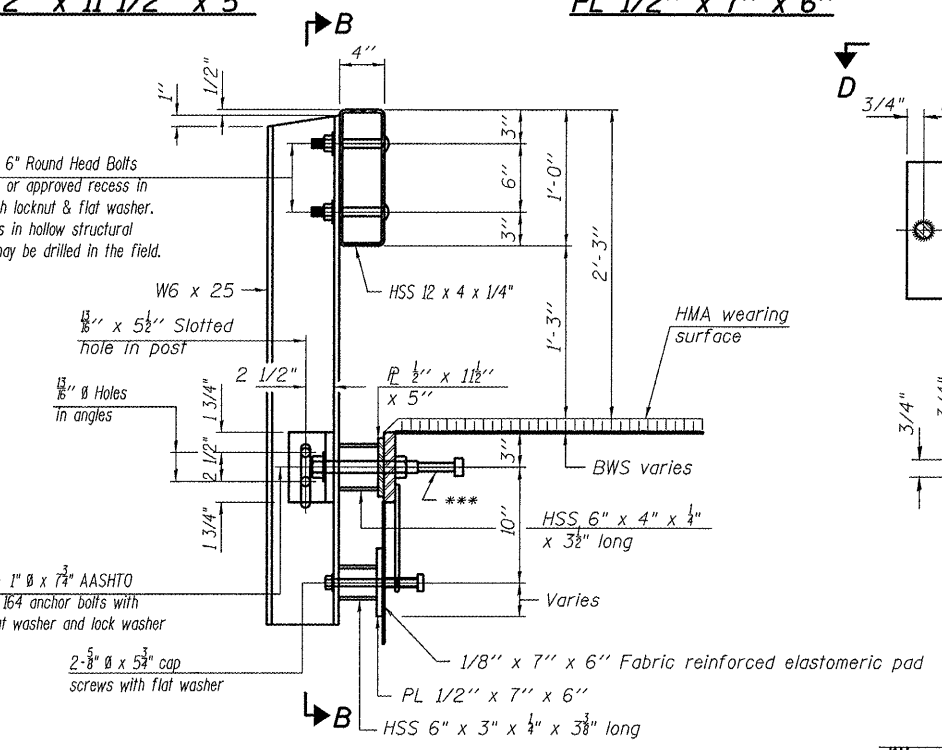
VIEW A-A  
 ROUND HEAD BOLT



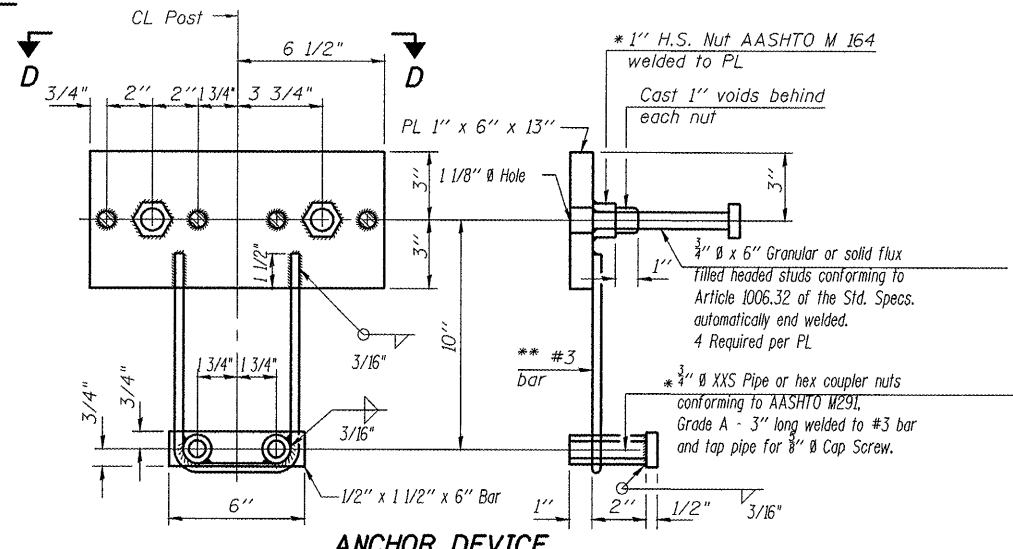
ELEVATION OF RAILING



SECTION B-B

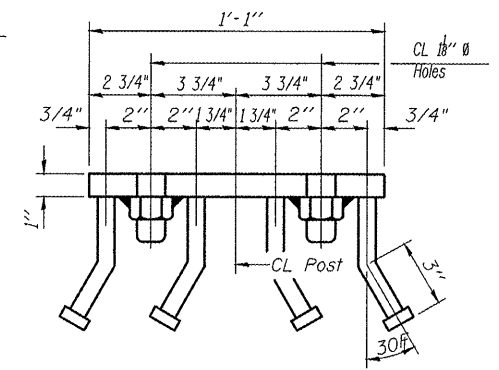


SECTION AT RAILING POST

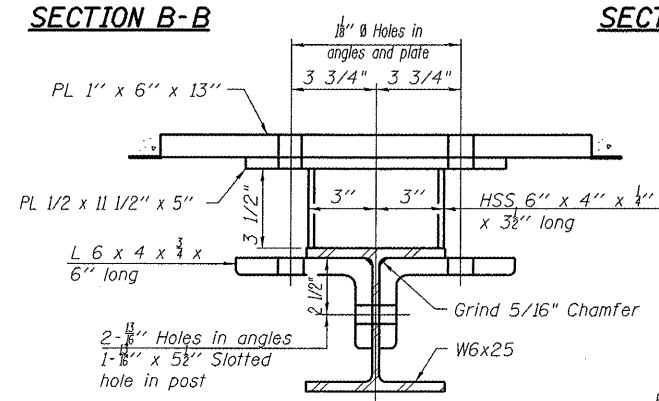


ANCHOR DEVICE

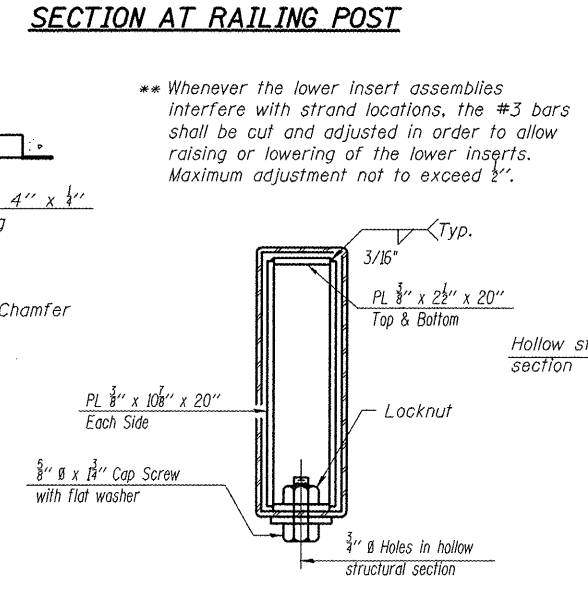
Notes:  
 All field drilled holes shall be coated with an approved zinc rich paint before erection.  
 For multi-span bridges, sufficient 1/2\"/>



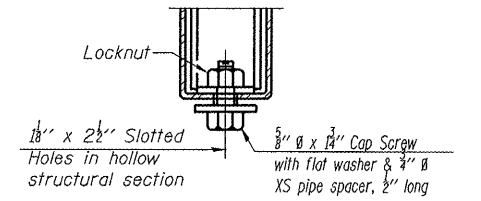
VIEW D-D



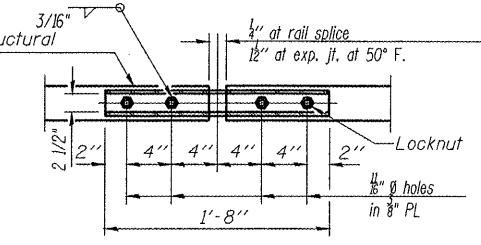
SECTION C-C



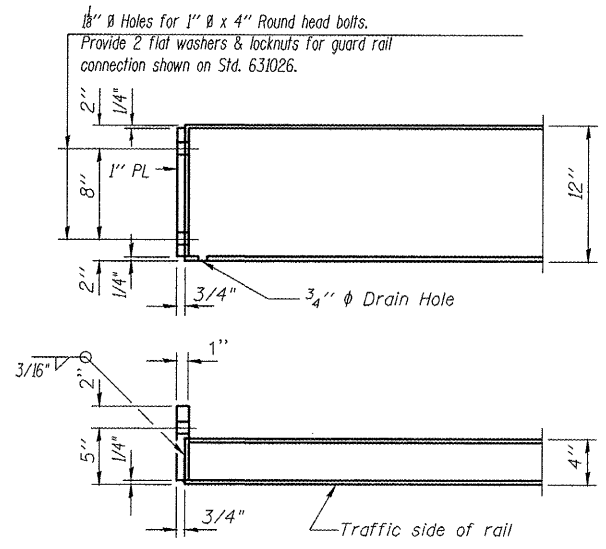
SECTIONS AT RAIL SPLICE



RAIL SPLICE CONNECTION AT EXPANSION JT.



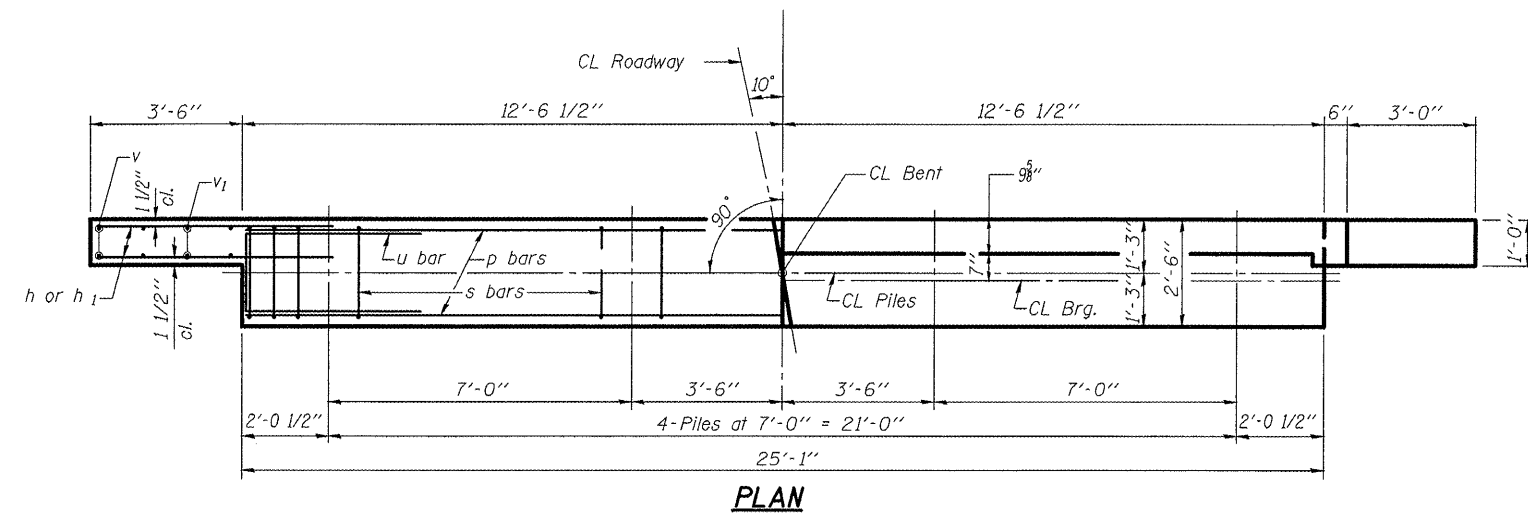
PLAN-BOTT. SPLICE TYPICAL



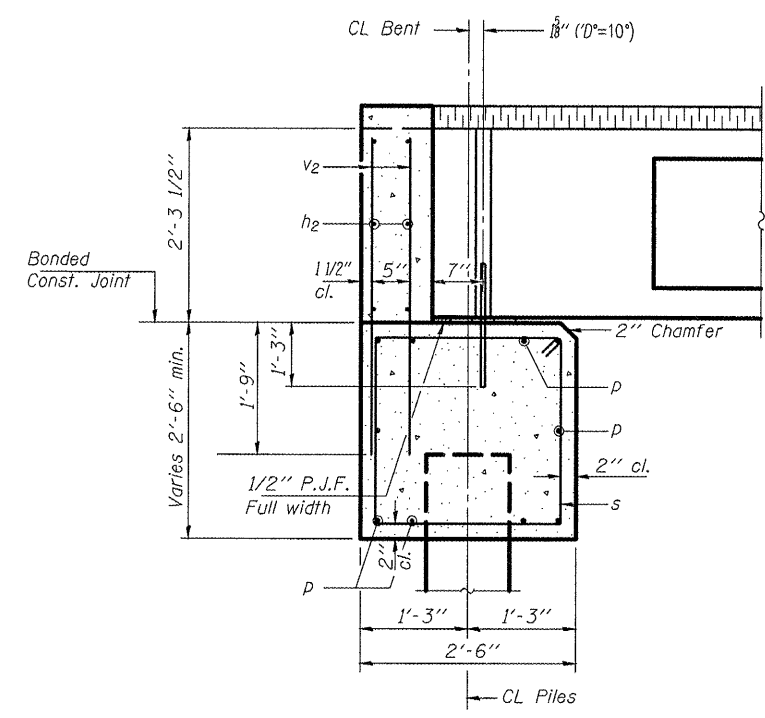
END OF RAIL DETAILS

BILL OF MATERIAL

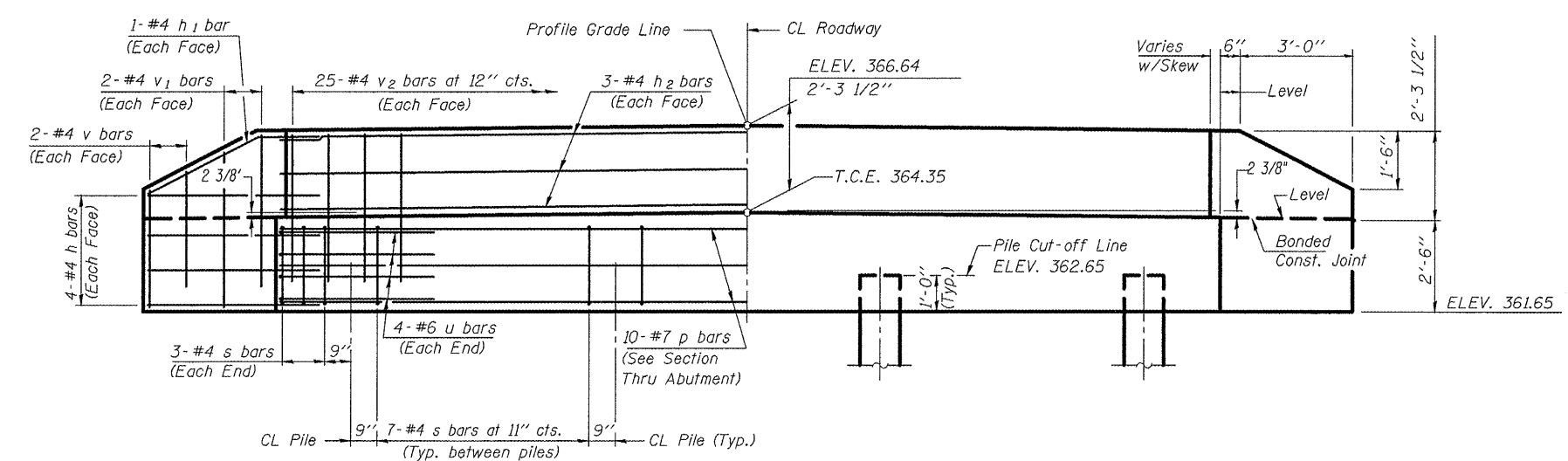
Item	Unit	Quantity
Steel Railing, Type S-1	Foot	120



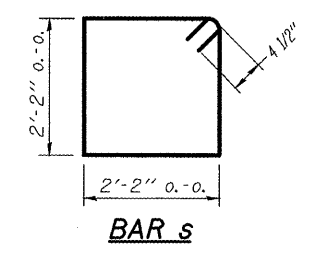
**PLAN**



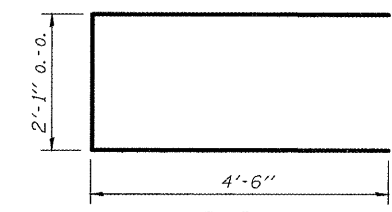
**SECTION THRU ABUTMENT**  
 (At Right Angles)



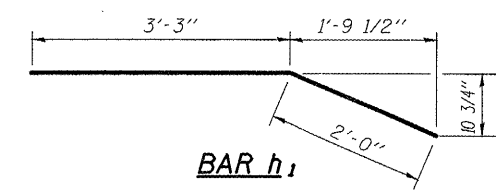
**ELEVATION**



**BAR s**



**BAR u**



**BAR h1**

**BILL OF MATERIAL FOR ONE ABUTMENT**

Bar	No.	Size	Length	Shape
h	16	#4	5'-0"	—
h1	4	#4	5'-3"	—
h2	6	#4	24'-9"	—
p	10	#7	24'-9"	—
s	27	#4	9'-5"	□
u	8	#6	11'-1"	□
v	8	#4	3'-2"	—
v1	8	#4	4'-2"	—
v2	50	#4	3'-11"	—
Concrete Structures			9.1 Cu. Yds.	
Reinforcement Bars			1150 Lb.	

**NOTES**

1. The Backwall and the portion of the Wingwalls above the bonded construction joint shall be cast against the in-place beam.
2. Reinforcement bars shall conform to the requirements of A.A.S.H.T.O. M-31 or M-322, Grade 60.
3. Space reinforcement in cap to miss anchor bolts.

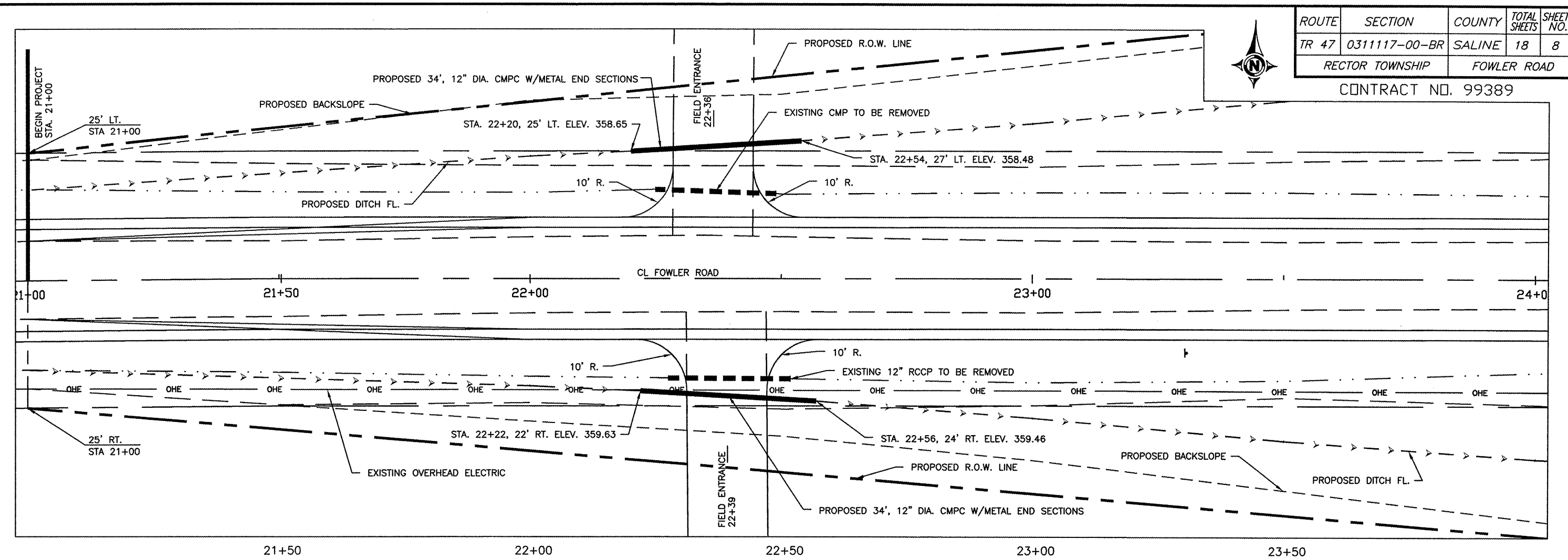
**DESIGN STRESSES**

$f'_c = 3,500 \text{ psi}$   
 $f_y = 60,000 \text{ psi}$

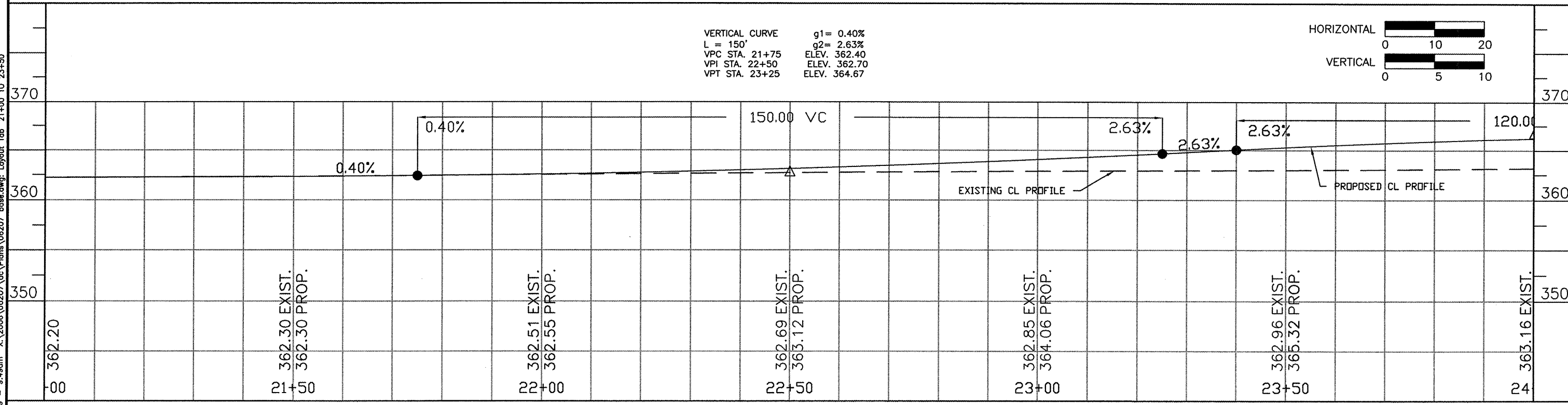
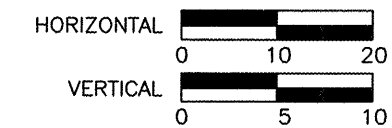
P.P.C. DECK BEAMS PILE BENT ABUTMENT		
24' RDWY.	27" BMS.	'D'=0, 5' OR 10'

ROUTE	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
TR 47	0311117-00-BR	SALINE	18	8
RECTOR TOWNSHIP		FOWLER ROAD		

CONTRACT NO. 99389



VERTICAL CURVE  
 L = 150'  
 VPC STA. 21+75 ELEV. 362.40  
 VPI STA. 22+50 ELEV. 362.70  
 VPT STA. 23+25 ELEV. 364.67  
 g1 = 0.40%  
 g2 = 2.63%

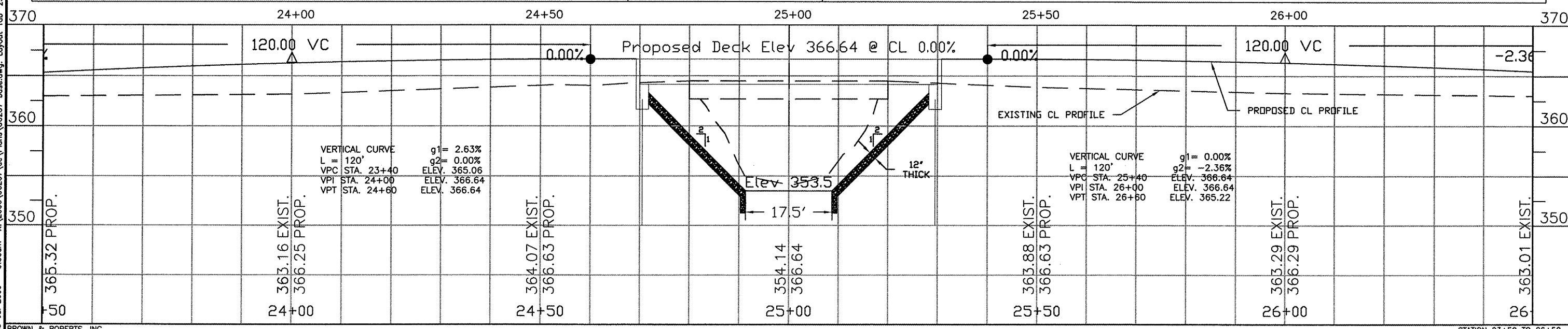
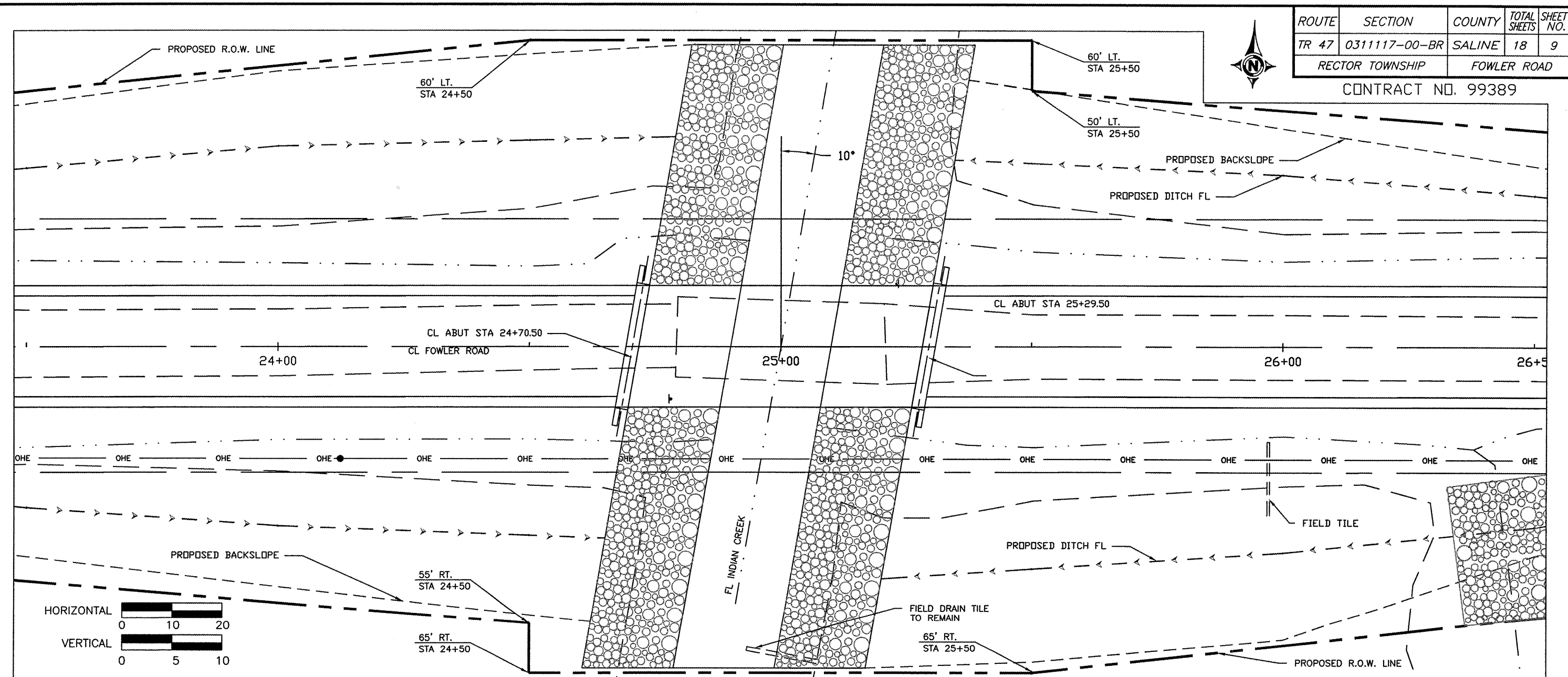


23 Jul 2009 - 9:49am X:\2006\06207\c\Plan\06207 base.dwg: Layout Tab '21+00 TO 23+50'



ROUTE	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
TR 47	0311117-00-BR	SALINE	18	9
RECTOR TOWNSHIP		FOWLER ROAD		

CONTRACT NO. 99389

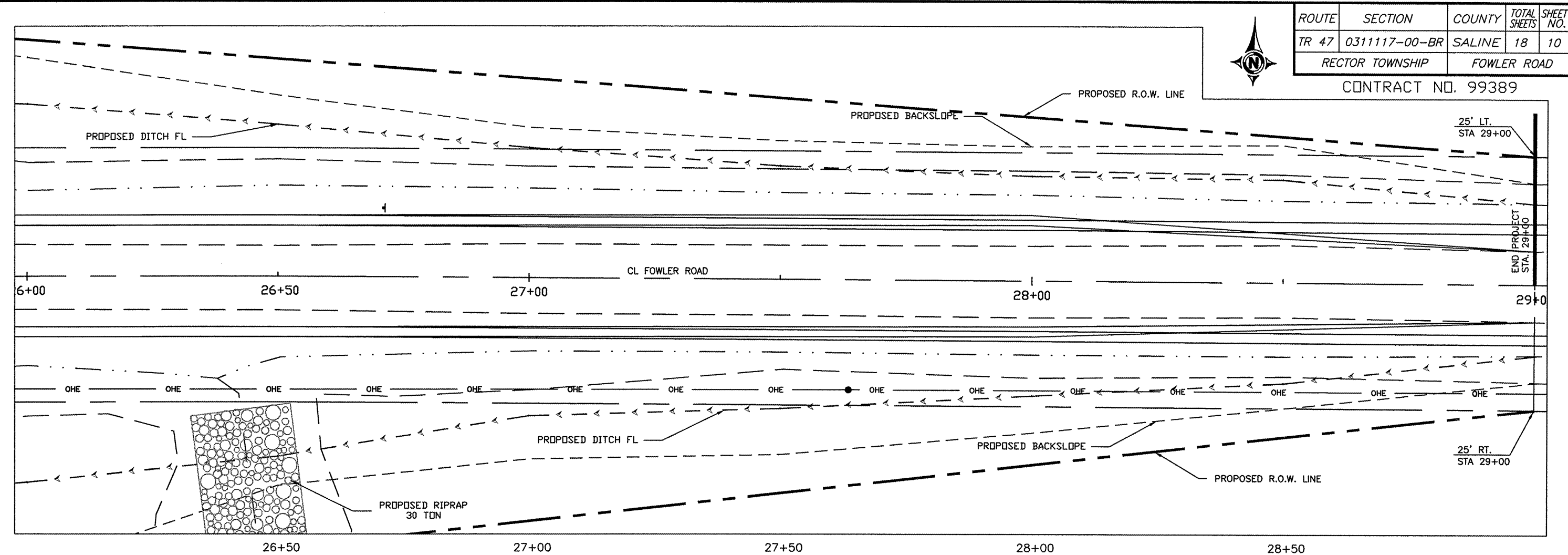


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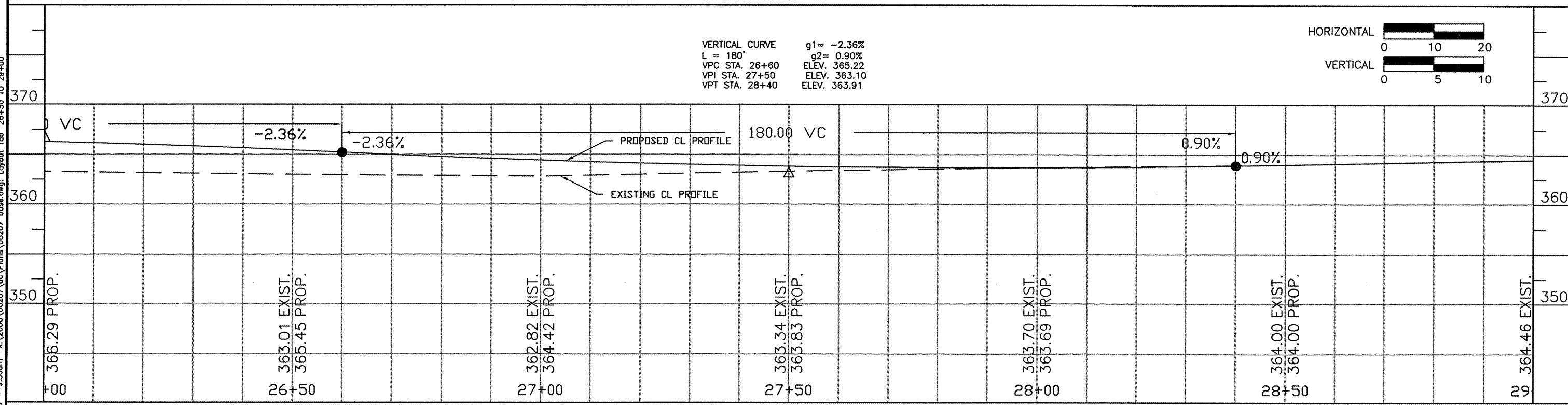
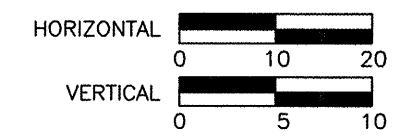
ROUTE	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
TR 47	0311117-00-BR	SALINE	18	10
RECTOR TOWNSHIP		FOWLER ROAD		



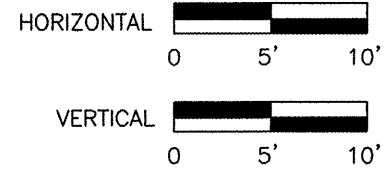
CONTRACT NO. 99389



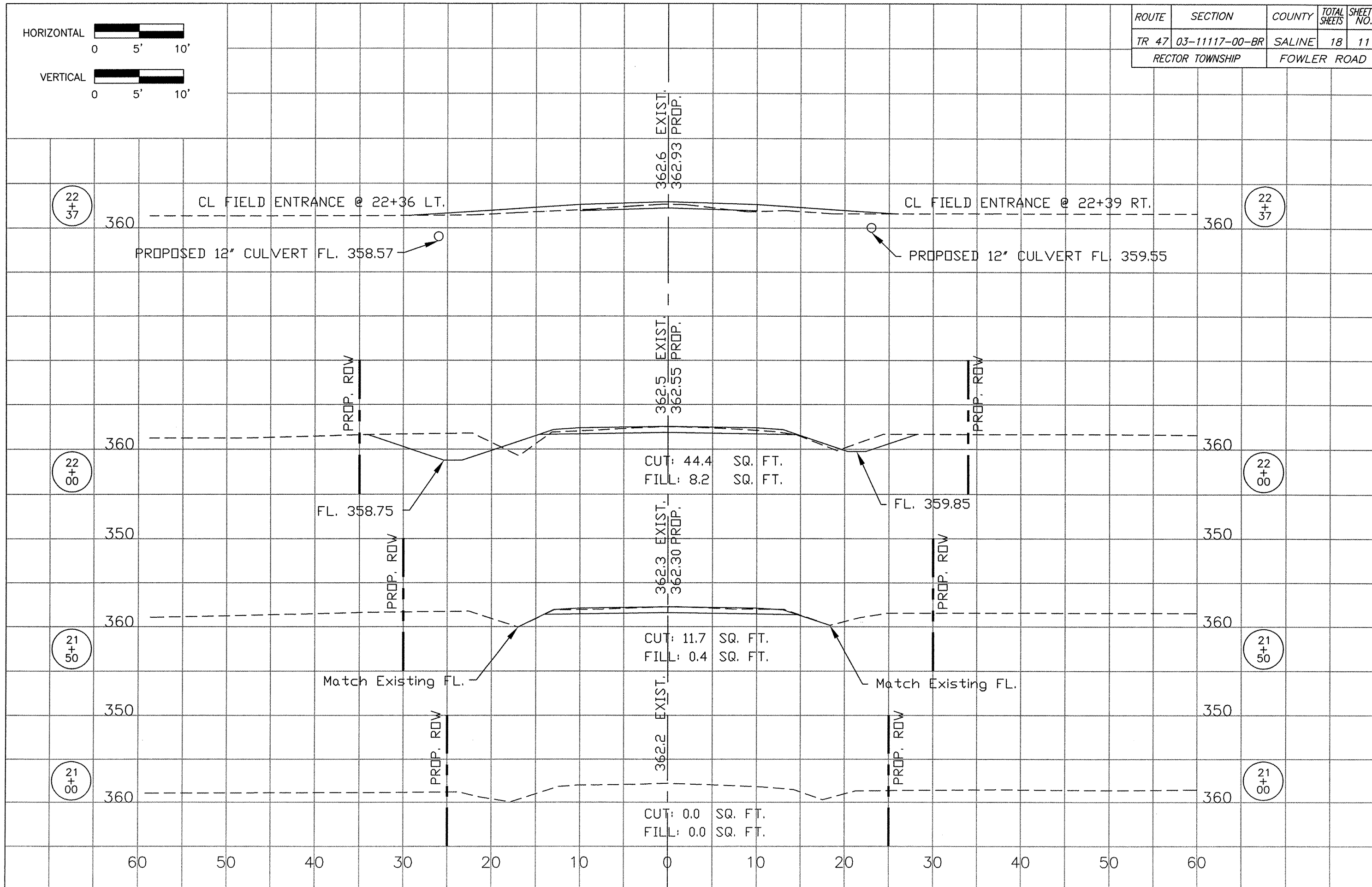
VERTICAL CURVE  
 L = 180'  
 VPC STA. 26+60 ELEV. 365.22  
 VPI STA. 27+50 ELEV. 363.10  
 VPT STA. 28+40 ELEV. 363.91

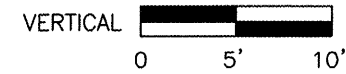
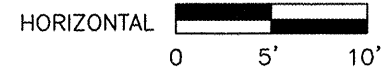


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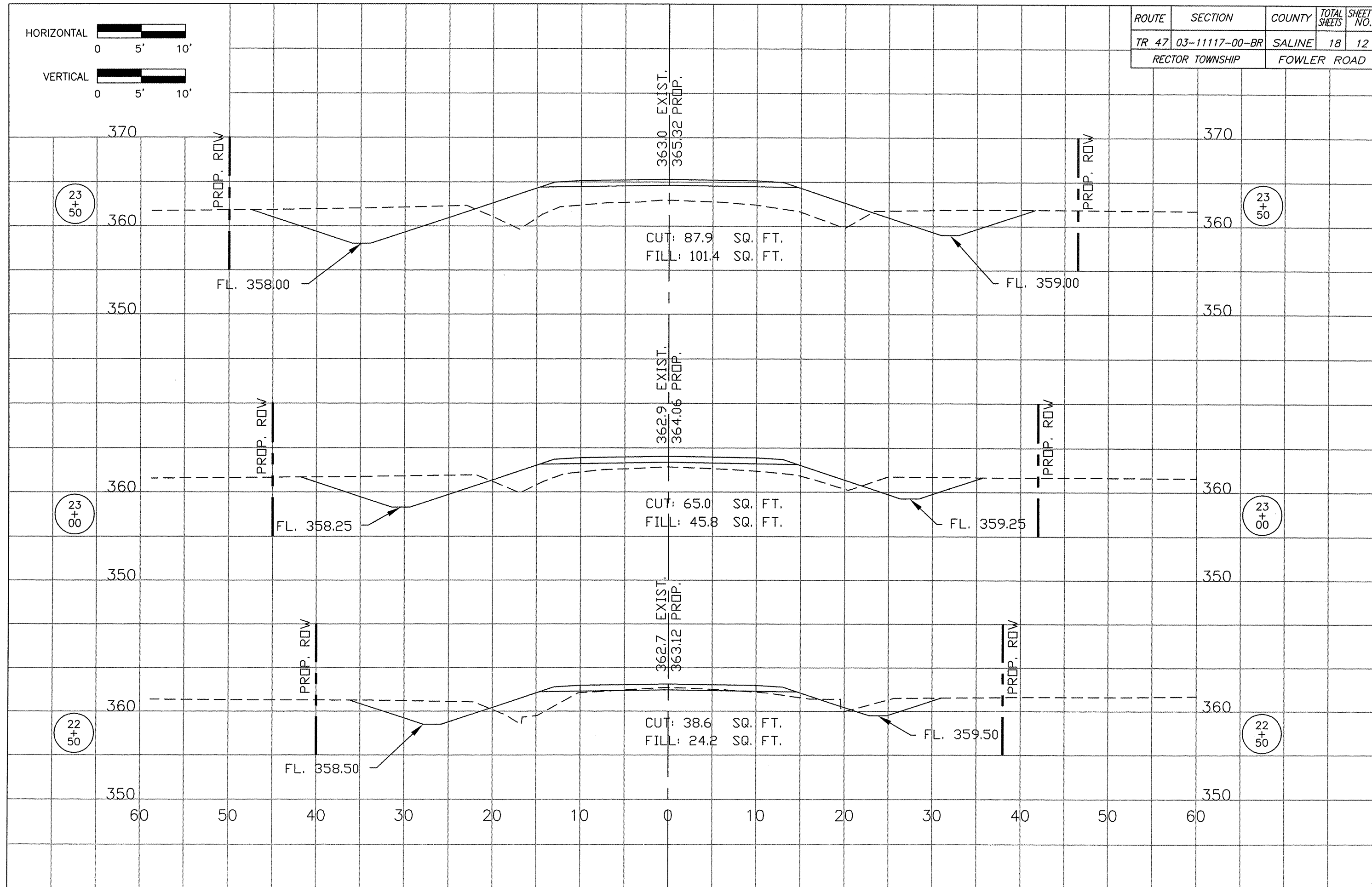


ROUTE	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
TR 47	03-11117-00-BR	SALINE	18	11
RECTOR TOWNSHIP		FOWLER ROAD		

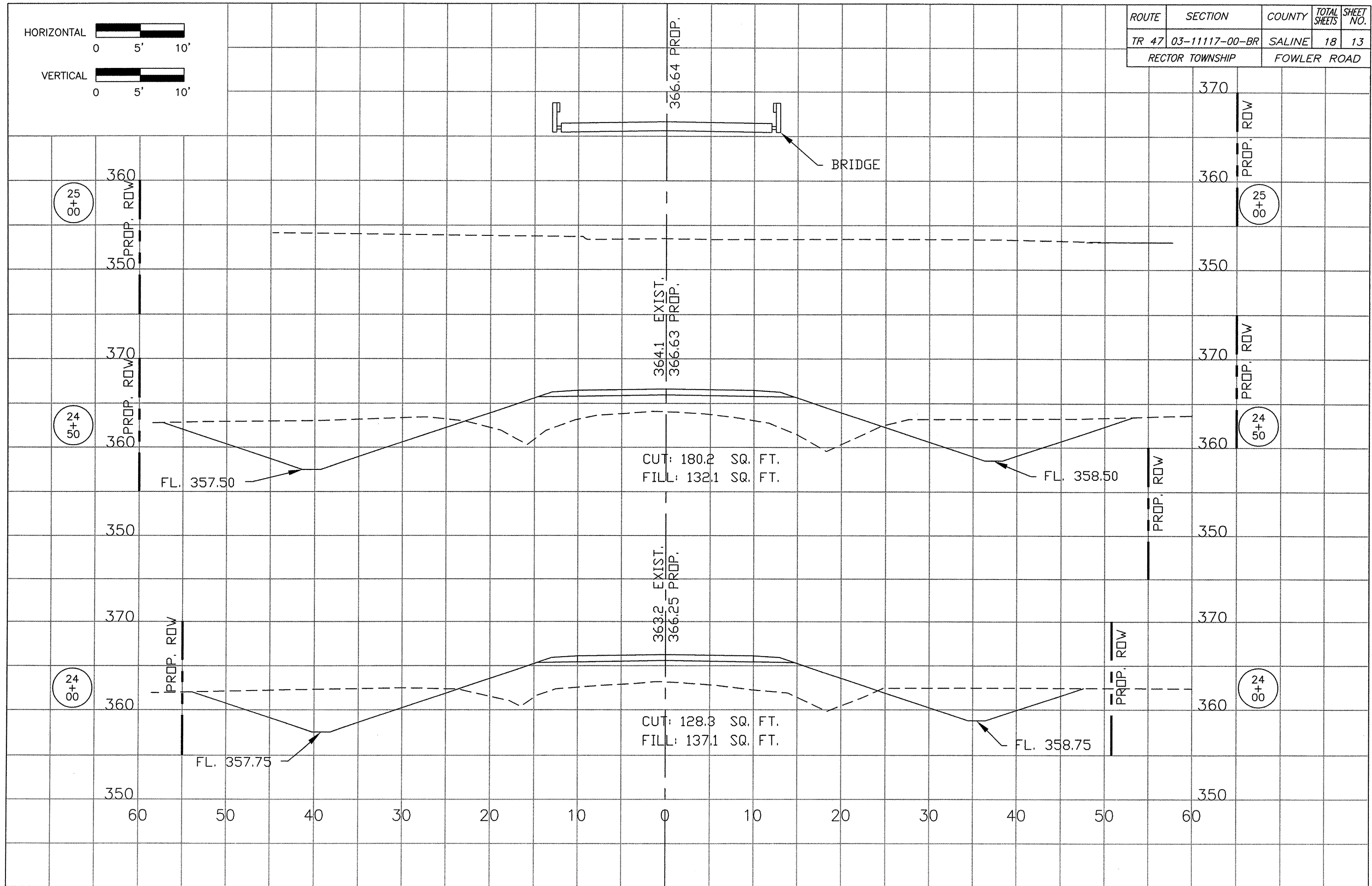
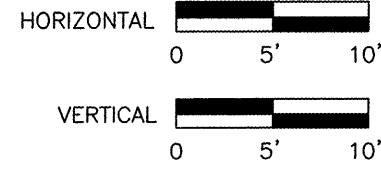




ROUTE	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
TR 47	03-11117-00-BR	SALINE	18	12
RECTOR TOWNSHIP		FOWLER ROAD		



ROUTE	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
TR 47	03-11117-00-BR	SALINE	18	13
RECTOR TOWNSHIP		FOWLER ROAD		



CUT: 180.2 SQ. FT.  
FILL: 132.1 SQ. FT.

CUT: 128.3 SQ. FT.  
FILL: 137.1 SQ. FT.

BRIDGE

FL. 357.50

FL. 358.50

FL. 357.75

FL. 358.75

364.1 EXIST.  
366.63 PROP.

363.2 EXIST.  
366.25 PROP.

366.64 PROP.

25+00

25+00

24+50

24+50

24+00

24+00

360

360

350

350

370

370

360

360

350

350

370

370

360

360

350

350

60

50

40

30

20

10

0

10

20

30

40

50

60

PROP. ROW

PROP. ROW

PROP. ROW

PROP. ROW

PROP. ROW

PROP. ROW

PROP. ROW

PROP. ROW

PROP. ROW

PROP. ROW

PROP. ROW

PROP. ROW

PROP. ROW

PROP. ROW

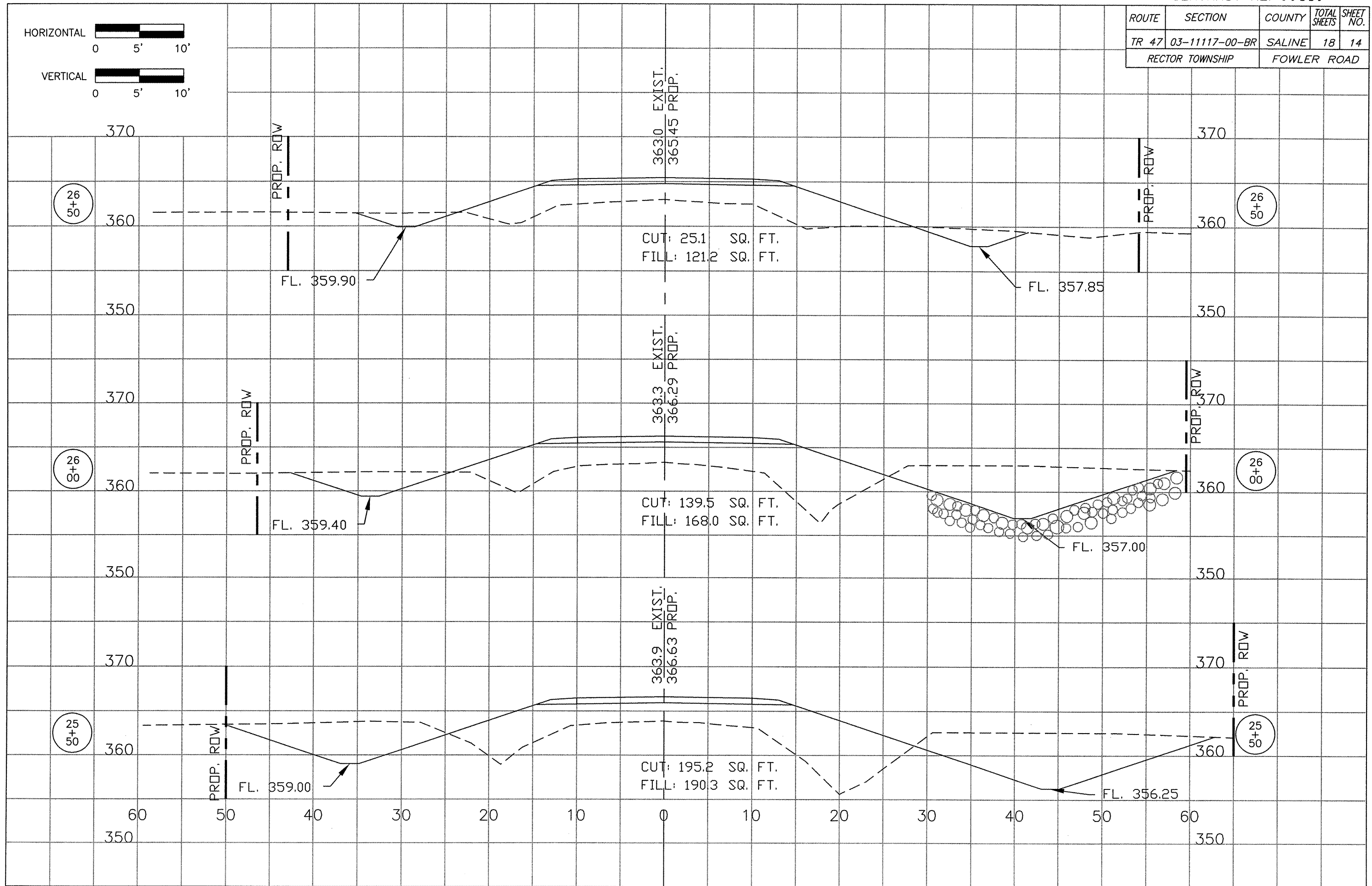
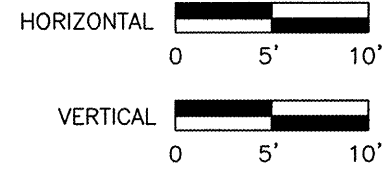
PROP. ROW

PROP. ROW

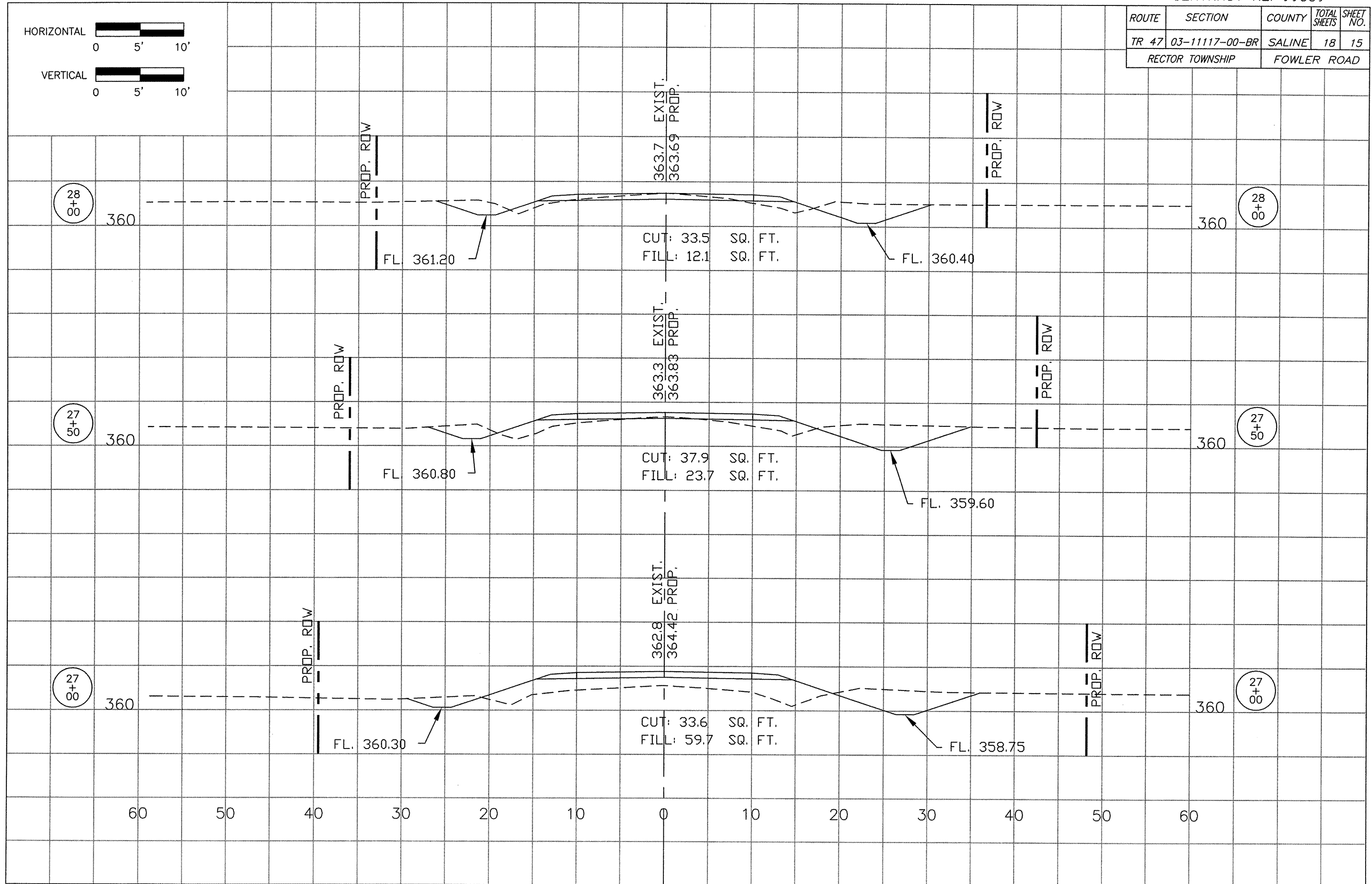
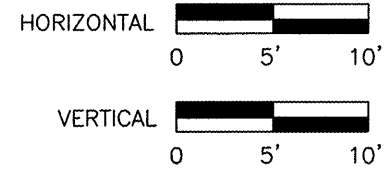
PROP. ROW

PROP. ROW

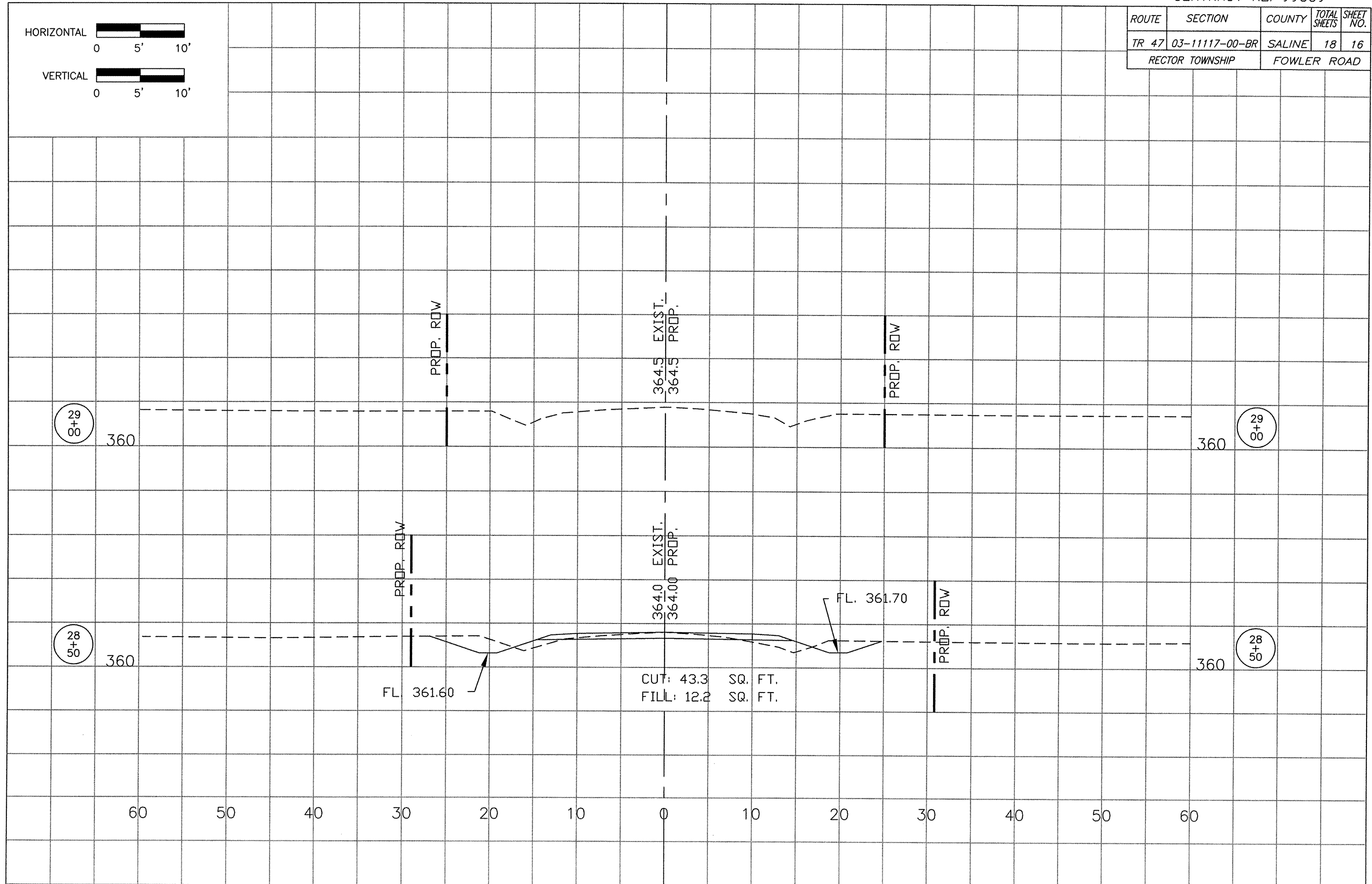
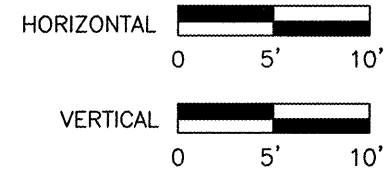
ROUTE	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
TR 47	03-1117-00-BR	SALINE	18	14
RECTOR TOWNSHIP		FOWLER ROAD		



ROUTE	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
TR 47	03-11117-00-BR	SALINE	18	15
RECTOR TOWNSHIP		FOWLER ROAD		



ROUTE	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
TR 47	03-11117-00-BR	SALINE	18	16
RECTOR TOWNSHIP		FOWLER ROAD		



29  
+  
00

29  
+  
00

28  
+  
50

28  
+  
50

360

360

360

360

PROP. ROW

PROP. ROW

PROP. ROW

PROP. ROW

364.5 EXIST.  
364.5 PROP.

364.0 EXIST.  
364.00 PROP.

FL. 361.70

FL. 361.60

CUT: 43.3 SQ. FT.  
FILL: 12.2 SQ. FT.

60

50

40

30

20

10

0

10

20

30

40

50

60



## 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 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 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 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 construct 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 plans can be deleted and if any additional temporary erosion control systems, which are not included in the plans, shall be added. The contractor shall perform all work as directed by the Engineer and as shown in STANDARD 280001.

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

### DESCRIPTION OF CONSTRUCTION ACTIVITIES

1. Temporary ditch checks shall be located at every 1.5 feet of fall/rise in ditch grade.

### INTENDED SEQUENCE OF MAJOR CONSTRUCTION ACTIVITIES

1. Isolated tree removal. Trees to remain will be protected against damage.
2. Watermain, Sanitary Sewers, Storm Sewers, and Drainage Structures.
3. Excavation and grading.
4. Placement of Aggregate Base Course.
5. Placement on PCC Pavement.
6. Seeding and permanent erosion control systems.

## AREA OF CONSTRUCTION SITE

1. The total area of the construction site is estimated to be 1.5 Acres of which approximately 1.5 Acres will be disturbed.

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### OTHER REPORTS, STUDIES AND PLANS WHICH AID IN THE DEVELOPMENT OF THE SWPPP AS REFERENCED DOCUMENTS.

1. Information of the terrain was obtained from topographic maps.
2. Project plan documents, specifications and special provisions and plan drawings indicating the drainage patterns and location of existing drainage features were utilized in the preparation of the proposed placement of temporary erosion control systems.

### DRAINAGE TRIBUTARIES AND SENSITIVE AREAS RECEIVING RUNOFF

1. Proposed storm sewer outlets are tributary to existing roadside ditches. No new discharge points will be constructed.

### CONTROLS - EROSION CONTROLS AND SEDIMENT CONTROLS

1. Existing vegetation will be preserved where attainable and disturbed portions of the site will be stabilized. Stabilization practices will include temporary seeding, permanent seeding, mulching, protection of trees, preservation of mature vegetation and other appropriate measures as directed by the Engineer. Stabilization measures shall be initiated as soon as practical in those areas of the site where construction activities have ceased, but in no case more than 7 days after the construction activity for an area has temporarily or permanently ceased.
2. Areas outside the construction limits shall be protected from construction activities.
3. Dead, diseased or unsuitable vegetation within the site shall be removed as directed by the Engineer.
4. As soon as is reasonable, the temporary erosion control system shall be installed as indicated in the plans or as directed by the engineer.

This plan has been prepared with the intent 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.

I certify under penalty of law that this plan was prepared at my direction in accordance with a system that qualified personnel properly gathered and evaluated the information submitted. Based on my inquiry of the person or persons who manage the system, or those persons directly responsible for gathering the information, the information submitted is, to the best of my knowledge and belief, true, accurate and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment.

  
JEFFREY M. JONES, COUNTY ENGINEER      May 12, 2009

ROUTE	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
TR 47	03-11117-00-BR	SALINE	18	17
RECTOR TOWNSHIP		FOWLER ROAD		

DESCRIPTION OF STABILIZATION PRACTICES

DURING CONSTRUCTION

1. During construction, areas outside the construction limits shall be protected.
2. 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.
3. Earth stockpiles shall be temporary seeded if they are to remain unused for more than 14 days.
4. As soon as construction proceeds, the contractor shall institute the following as directed by the Engineer:
  - A) Place temporary erosion control facilities at locations shown in the plans.
  - B) Temporarily seed erodable bare earth on a weekly basis to minimize the amount of erodable surface area within the contract limits.
  - C) Construct roadside ditches and provide temporary erosion control systems.
  - D) Temporarily divert water around proposed culvert locations.
5. Excavated areas shall be permanently seeded immediately after final grading. If not, they shall be temporarily seeded if no construction in the area is planned for 7 days.
6. All necessary measures shall be taken by the contractor to contain any fuel or pollutant in accordance with EPA water quality regulations. Leaking equipment or supplies shall be immediately repaired or removed from the site.
7. The Resident Engineer shall inspect the project daily during construction activities. Inspection shall also be done weekly and after rains of 0.5 inches or greater or equivalent snowfall and during any winter shutdown period.
8. Sediment collected during the construction by the various temporary erosion control systems shall be disposed of on site on a regular basis as directed by the Resident Engineer. The cost of this maintenance shall be considered incidental to the erosion control system.
9. 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 removal shall be included in the unit bid price for various temporary erosion control pay items.

DESCRIPTION OF STRUCTURAL PRACTICES

AFTER FINAL GRADING

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

MAINTENANCE AFTER CONSTRUCTION

1. Construction is complete after FINAL acceptance by I.D.O.T. final inspection. Maintenance up to this date will be by the contractor.

MISCELLANEOUS

1. Temporary ditch checks shall be located at every 1.5 feet of fall/rise in ditch grade.
2. Temporary erosion control seeding shall be applied at the rate of 100 lbs/acre.
3. Straw bales, hay bales, perimeter erosion control barrier and silt fences will not be permitted for temporary or permanent ditch checks. Ditch checks shall be composed of aggregate, silt panels, rolled excelsior, urethane foam geotextile (silt wedges) and/or other material approved by the erosion and sediment control coordinator.
4. 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 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.
5. All items shall be constructed as shown on STANDARD 280001 and as directed by the Engineer. Maintenance and cleaning of erosion control items shall be considered part of the respective erosion control pay item.

ROUTE	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
TR 47	03-11117-00-BR	SALINE	18	18
RECTOR TOWNSHIP		FOWLER ROAD		

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