

STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION PLANS FOR PROPOSED BRIDGE REPLACEMENT AND REHABILITATION PROGRAM INGRAM HILL ROAD BRIDGE

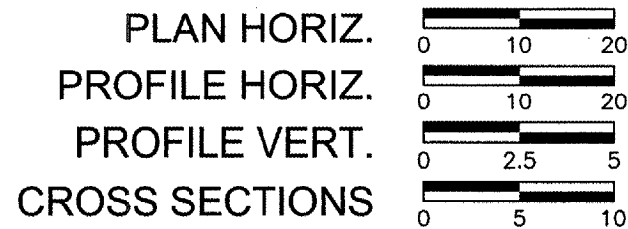
FUNCTIONAL CLASS: LOCAL ROAD

ADT (2002): <200

DESIGN SPEED: 30 MPH

TOWNSHIP ROAD 225
SALINE COUNTY - HARRISBURG TOWNSHIP
SECTION NO. 04-06116-00-BR
ACBROS-165(24)
C-99-538-04

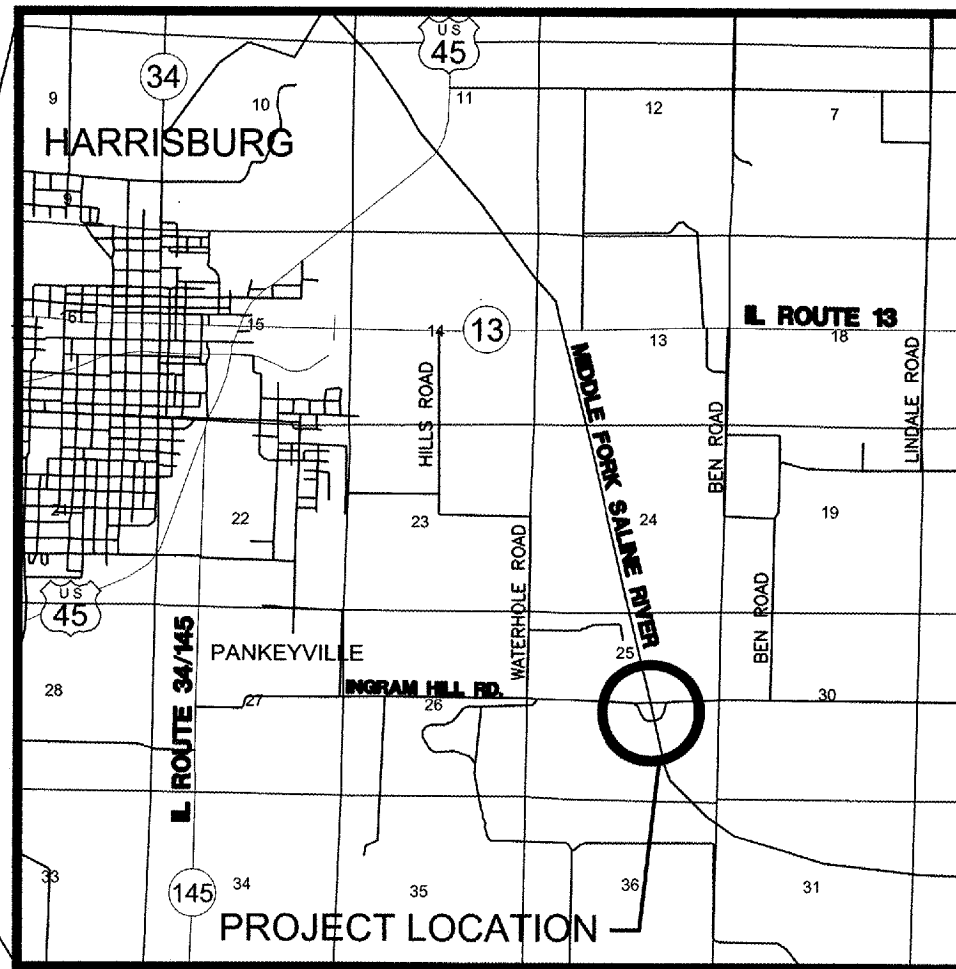
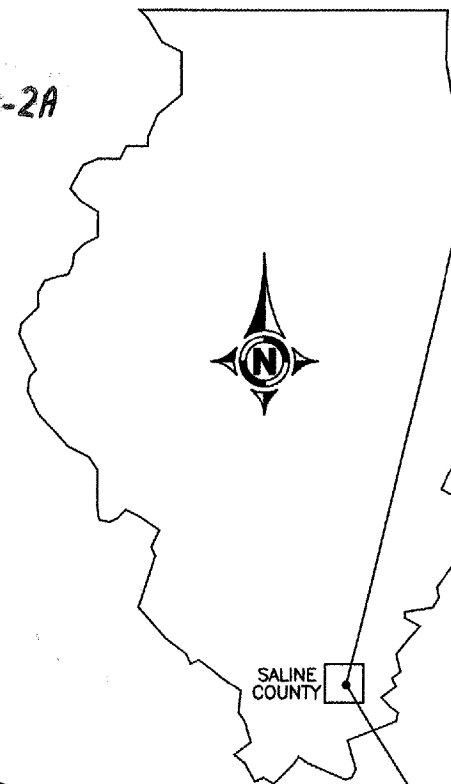
SCALES



SUMMARY OF QUANTITIES

20200100	EARTH EXCAVATION	CU YD	4,500
20400100	BORROW EXCAVATION	CU YD	8,750
25001000	SEEDING, CLASS 2 (SPECIAL)	ACRE	1.5
28000250	TEMPORARY EROSION CONTROL SEEDING	POUND	150
28000300	TEMPORARY DITCH CHECKS	EACH	6
28000400	PERIMETER EROSION BARRIER	FOOT	370
28100807	STONE DUMPED RIPRAP, CLASS A4	TON	935
40200800	AGGREGATE SURFACE COURSE, TYPE B	TON	1,740
50100100	REMOVAL OF EXISTING STRUCTURES	EACH	1
50300225	CONCRETE STRUCTURES	CU YD	32.4
50400505	PRECAST PRESTRESSED CONCRETE DECK BEAMS, (27" DEPTH)	SQ FT	4,320
50800105	REINFORCEMENT BARS	POUND	3,240
50900205	STEEL RAILING, TYPE S1	FOOT	360
51201610	FURNISHING STEEL PILES HP 12X63	FOOT	1,780
51202700	DRIVING STEEL PILES	FOOT	1,780
51204315	CONCRETE ENCASEMENT	CU YD	44.6
51500100	NAME PLATES	EACH	1
63000000	STEEL PLATE BEAM GUARD RAIL, TYPE A	FOOT	1137.5
63100041	TRAFFIC BARRIER TERMINAL, TYPE 1B	EACH	4
67100100	MOBILIZATION	L SUM	1
X2010505	CLEARING, SPECIAL	L SUM	1

X081-2A



INDEX TO SHEETS

- 1 COVER
- 2 GENERAL LAYOUT SHEET
- 3-5 PLAN & PROFILE
- 6 GENERAL PLAN & ELEVATION
- 7 SUPERSTRUCTURE
- 8 DECK BEAM DETAILS
- 9 ABUTMENT DETAILS
- 10 PIER DETAILS
- 11 STEEL RAILING
- 12 NAME PLATE
- 13 PILE DETAILS
- 14-21 CROSS SECTIONS
- 22-23 EROSION CONTROL PLAN
- 24-25 BORING LOGS

STANDARDS

- 280001-02 631006-03
- 630001-05 702001-05
- 630301-03 BLR 21-6

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

APPROVED 09-30 2005
[Signature]
AGENCY REPRESENTATIVE

PASSED Oct. 3 2005
[Signature]
ENGINEER OF LOCAL ROADS AND STREETS

APPROVED 10-3 2005
[Signature]
MARY C. LAMIE, P.E.
DEPUTY DIRECTOR OF HIGHWAYS
REGION FIVE ENGINEER

LOCATION MAP
Scale: 1 inch = 1 mile
Length Of Improvements = 1,400 ft (0.27 mi)



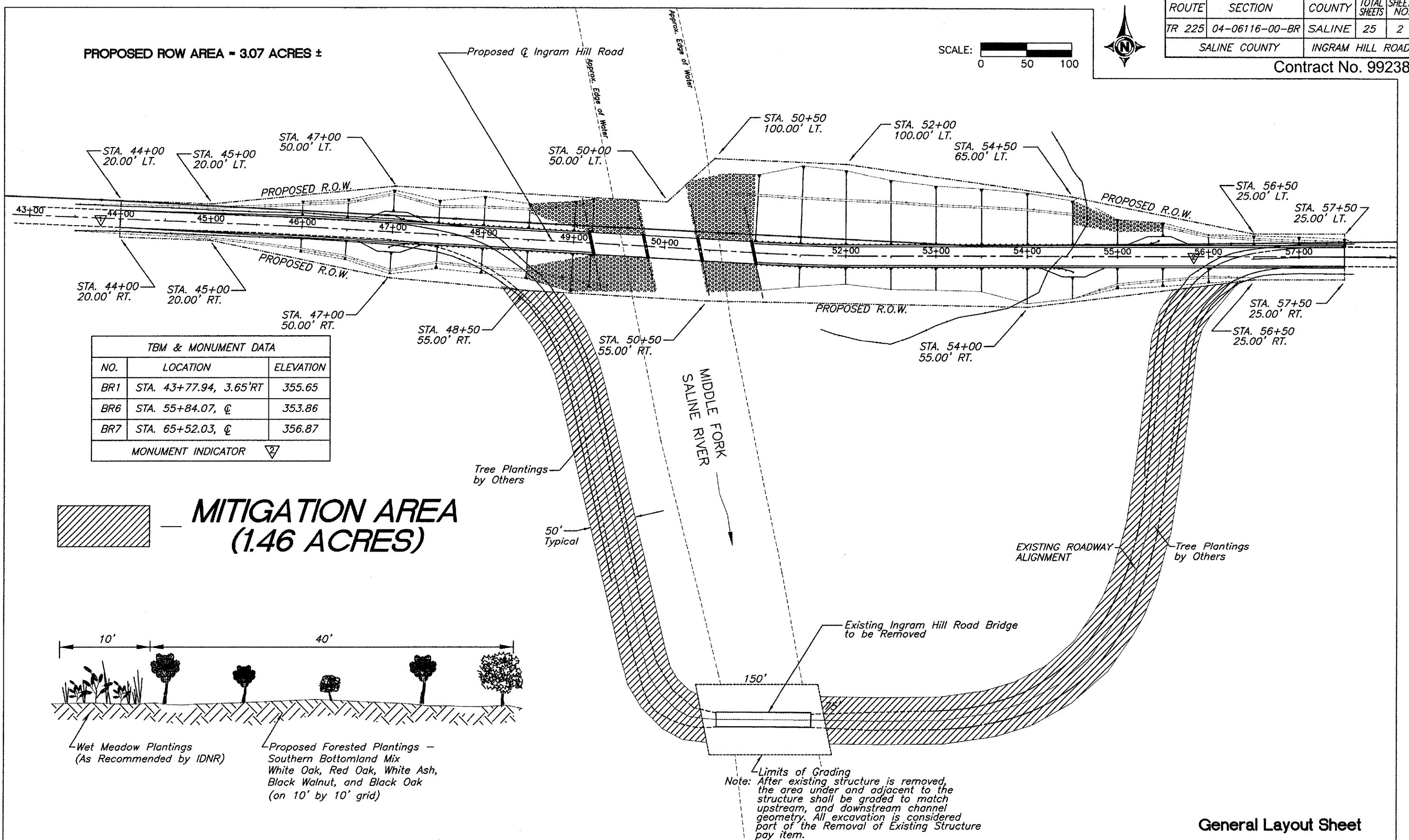
Jim W. Brown
JIM W. BROWN, PRESIDENT
ILLINOIS REGISTERED PROFESSIONAL ENGINEERING CORPORATION
NUMBER 184-002518
EXPIRES NOV. 30, 2005

ROUTE	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
TR 225	04-06116-00-BR	SALINE	25	2
SALINE COUNTY		INGRAM HILL ROAD		

Contract No. 99238

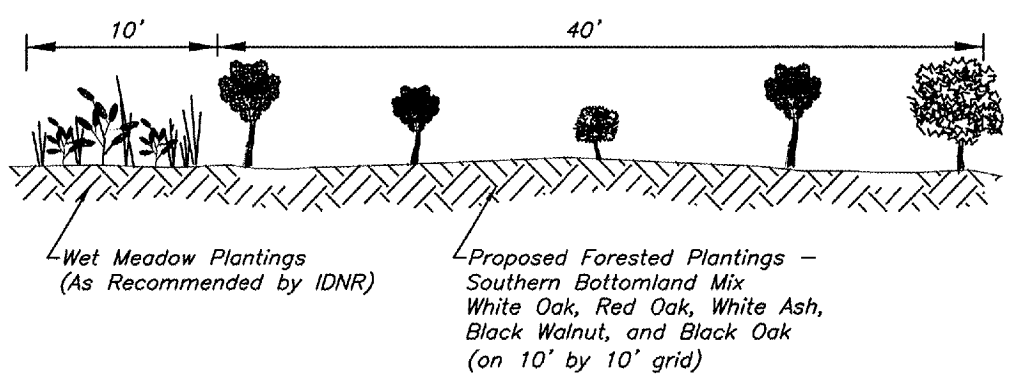


PROPOSED ROW AREA = 3.07 ACRES ±



TBM & MONUMENT DATA		
NO.	LOCATION	ELEVATION
BR1	STA. 43+77.94, 3.65' RT	355.65
BR6	STA. 55+84.07, @	353.86
BR7	STA. 65+52.03, @	356.87
MONUMENT INDICATOR		

MITIGATION AREA (1.46 ACRES)



Limits of Grading
 Note: After existing structure is removed, the area under and adjacent to the structure shall be graded to match upstream, and downstream channel geometry. All excavation is considered part of the Removal of Existing Structure pay item.

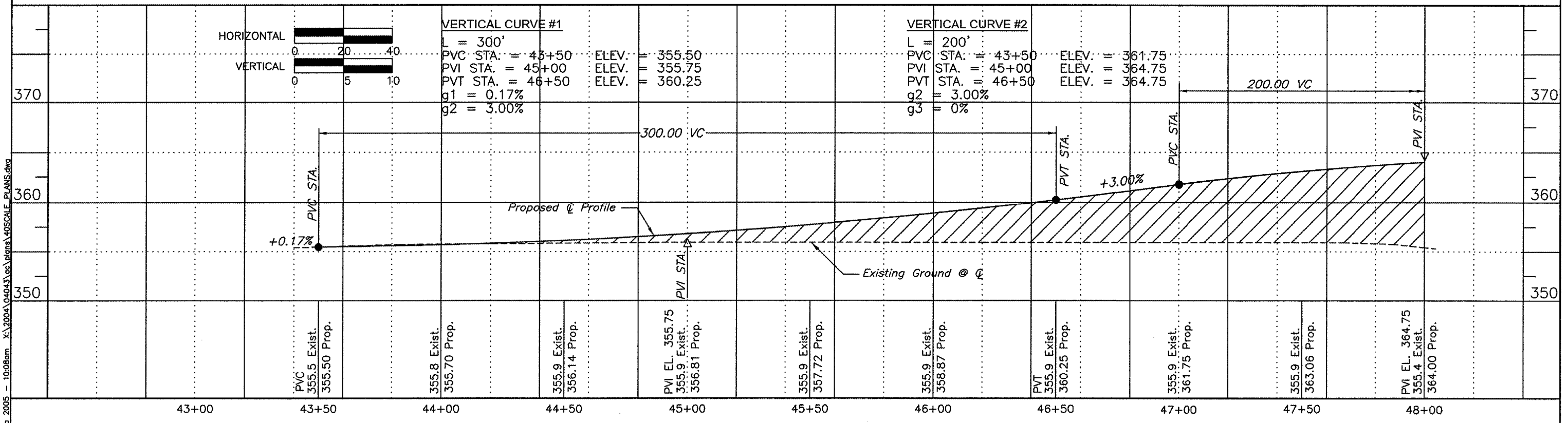
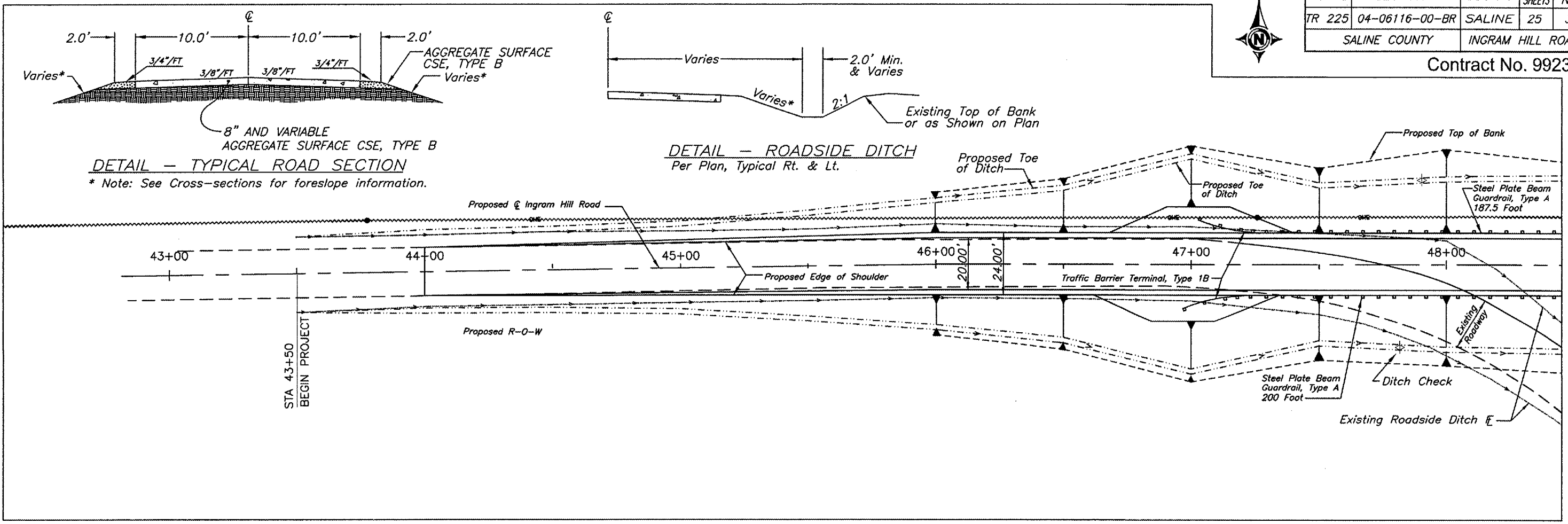
General Layout Sheet

30 Sep 2005 10:08am X:\2004\04043\loc\plans\40SCALE_PLANS.dwg

ROUTE	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
TR 225	04-06116-00-BR	SALINE	25	3
SALINE COUNTY		INGRAM HILL ROAD		



Contract No. 99238



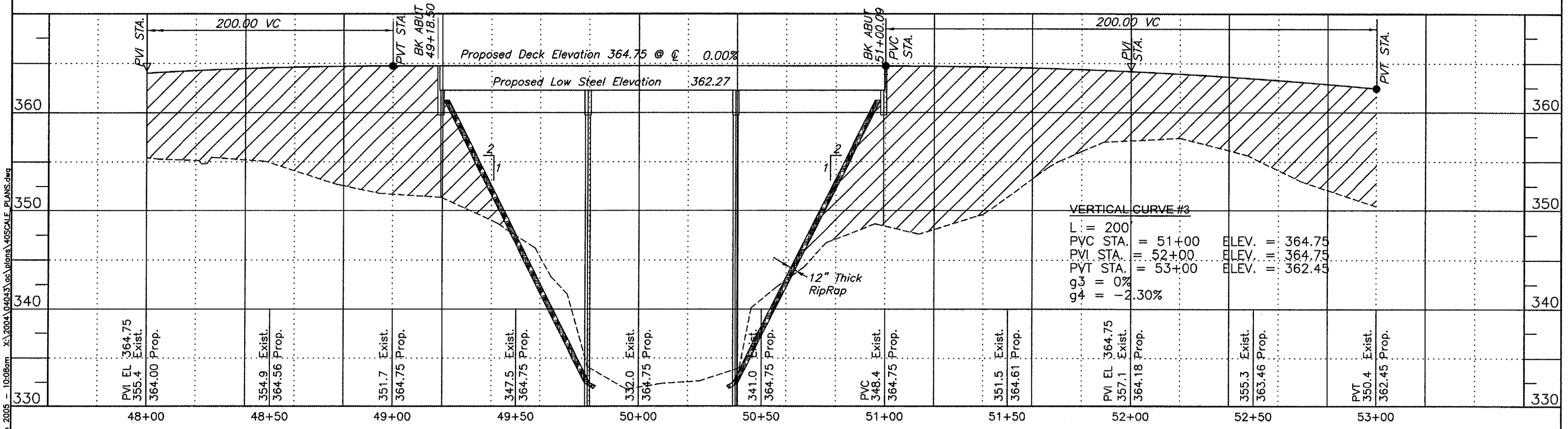
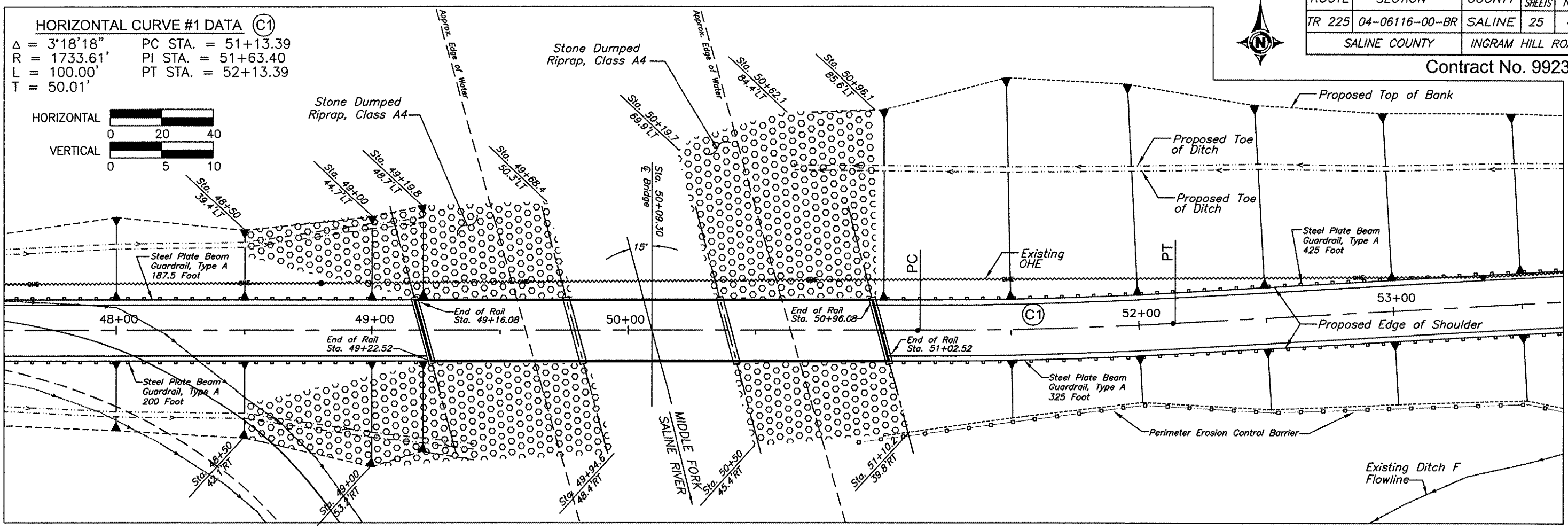
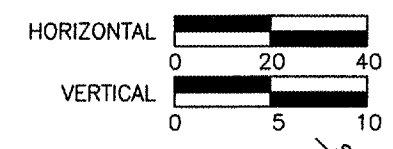
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ROUTE	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
TR 225	04-06116-00-BR	SALINE	25	4
SALINE COUNTY		INGRAM HILL ROAD		



Contract No. 99238

HORIZONTAL CURVE #1 DATA (C1)
 $\Delta = 3'18'18''$ PC STA. = 51+13.39
 $R = 1733.61'$ PI STA. = 51+63.40
 $L = 100.00'$ PT STA. = 52+13.39
 $T = 50.01'$

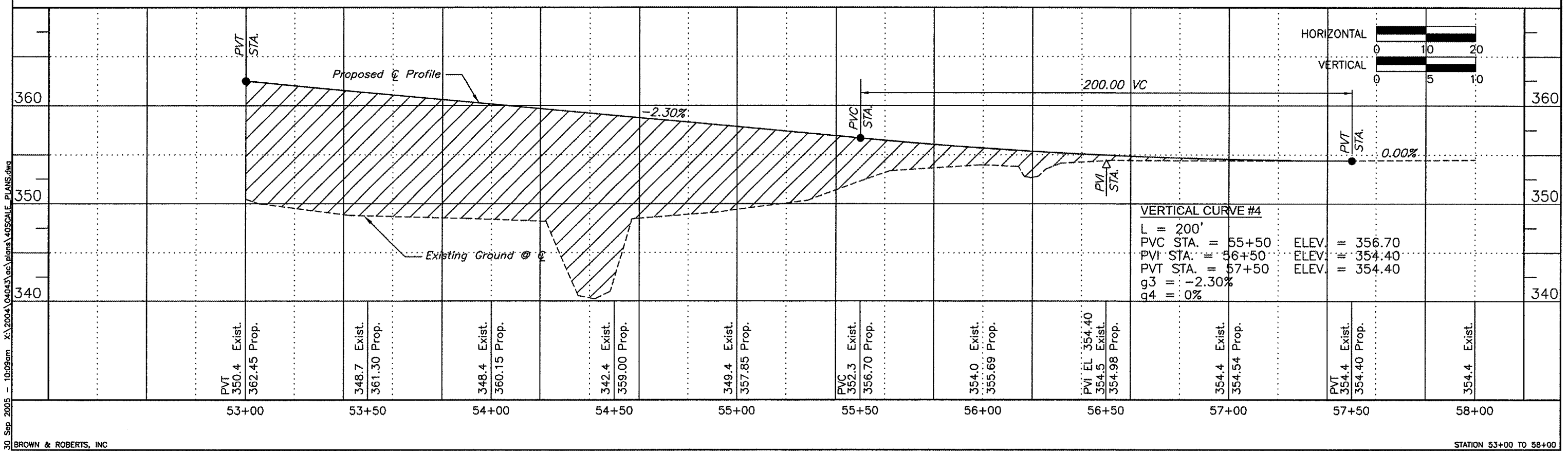
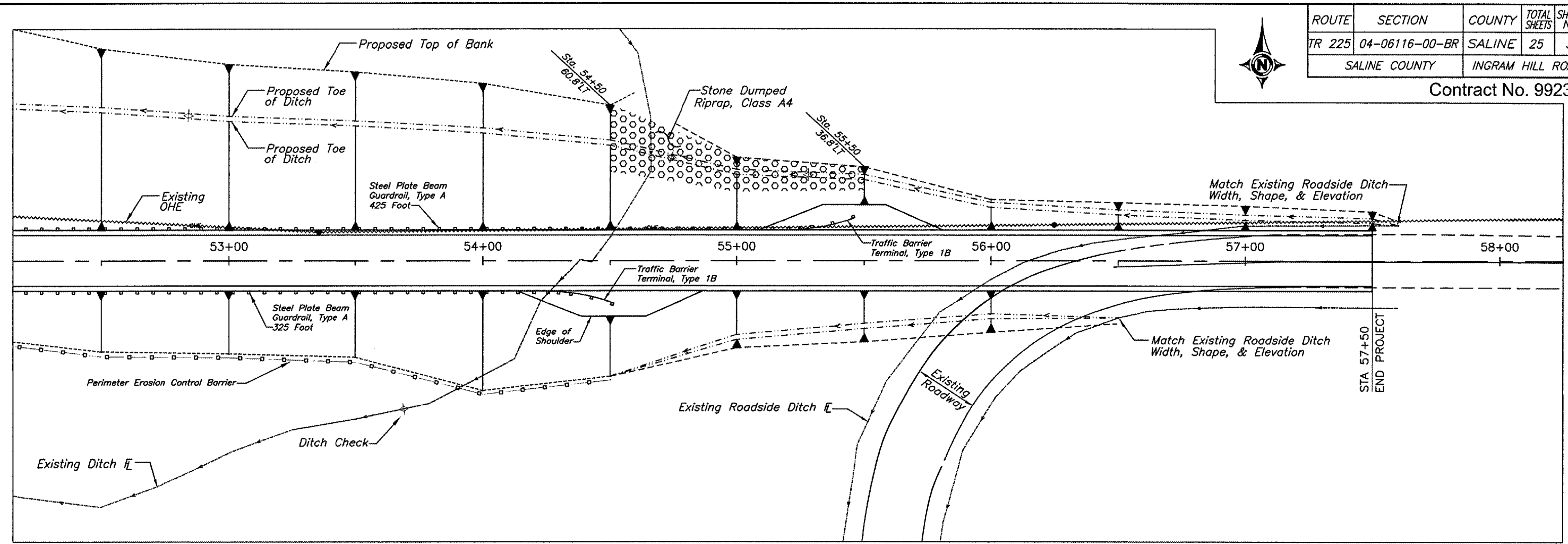


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ROUTE	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
TR 225	04-06116-00-BR	SALINE	25	5
SALINE COUNTY		INGRAM HILL ROAD		



Contract No. 99238



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GENERAL NOTES

- Concrete Structures shall be used throughout except in the deck beams.
- See Sheet 24-25 for Boring Logs.
- BenchMark - Station 47+00 - 6' LT - Chiseled "□" in NW corner of Box Culvert Headwall - Elev 366.72

DESIGN SPECIFICATIONS

1996 AASHTO & INTERIMS
HS20 - 44 Loading, Load Factor Design.

Route	Section	County	Total Sheets	Sheet No.
TR 225	04-06116-00-BR	Saline	25	6

HARRISBURG TOWNSHIP-INGRAM HILL RD. BRIDGE

Contract No. 99238

WATERWAY INFORMATION

Drainage Area = 228 Sq. Mi.		Low Grade Elev. = 350.6							
Flood	Freq. (year)	Q (cfs)	Opening (sq ft)		Natural HWE	Head (ft)		Headwater Elev	
			Exist	Prop		Exist	Prop	Exist	Prop
Design	15	9807	1328	3158	349.41	1.40	1.16	350.81	350.57
Base	100	14314	1328	3158	352.70	1.69	1.31	354.39	354.01
Overtopping	-	-	-	-	-	-	-	-	-
Max. Calc.	500	17723	1328	3158	354.81	2.22	1.34	357.03	356.15

TOTAL BILL OF MATERIAL

ITEM	Unit	Super.	Substructure		Total
			Piers	Abuts.	
Removal of Existing Structures	Each	1			1
Concrete Structures	Cu Yd		13.0	19.4	32.4
P.P. Con. Dk. Bm. 27" Dp.	Sq Ft	4320			4320
Steel Railing, Type S1	Foot	360			360
Reinforcement Bars	Pound		1140	2100	3240
Furnish Steel Piles HP 12x63	Foot		1068	712	1780
Drive Steel Piles	Foot		1068	712	1780
Name Plate	Each	1			1
Concrete Encasement	Cu Yd		41.9	2.7	44.6

NOTE:

The Article or Section numbers referencing the Standard Specifications for Road and Bridge Construction as shown on the standard bridge plan sheets included with the contract plans should be interpreted as referring to the current edition of the Standard Specification (Adopted January 1, 2002) as shown in the "Article/Section No. Reference Table".

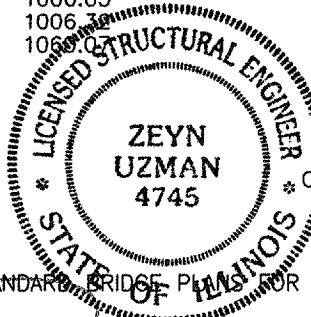
ARTICLE/SECTION NO. REFERENCE TABLE

Previous No.	Current No.
504.06	504.06
505.04	505.04
706.05	1006.05
706.32	1006.32
760.07	1060.07

LETTERING FOR NAME PLATE

SEC. 04-06116-00-BR
STR. NO. 083-3231
ENOCH HALL BRIDGE
BUILT 2006
SALINE COUNTY
LOADING HS20

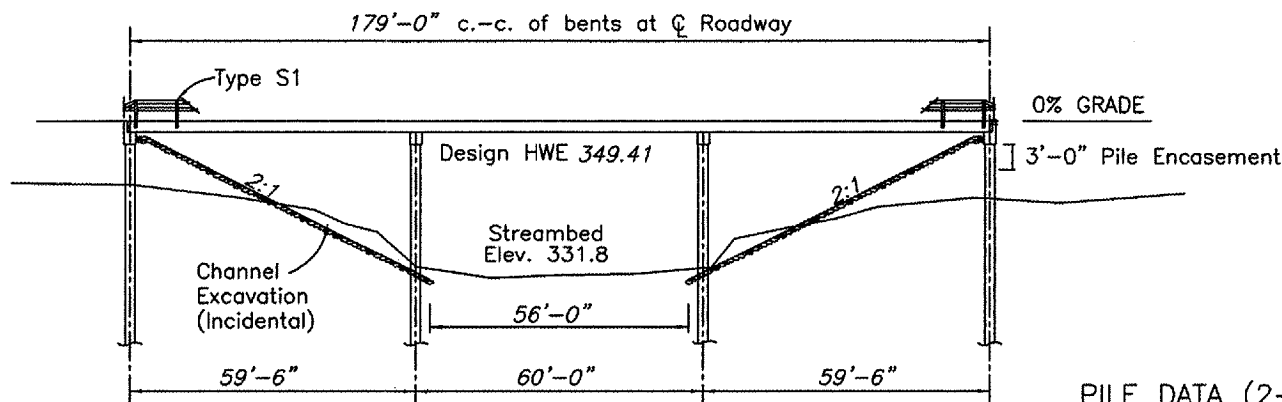
LOCATE NAME PLATE AT SOUTHWEST CORNER OF BRIDGE (SEE STANDARD CN)



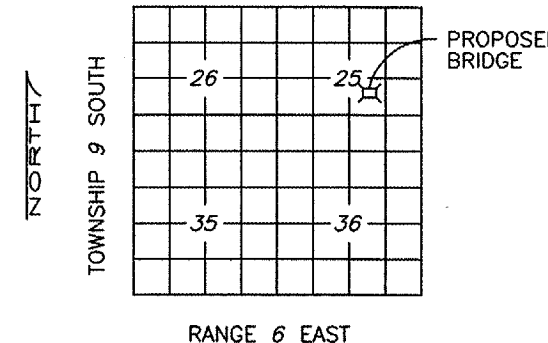
I CERTIFY THESE STANDARD BRIDGE PILES FOR FOUNDATION TREATMENT ONLY

ZEYN UZMAN
DATE

ELEVATION



LOCATION SKETCH



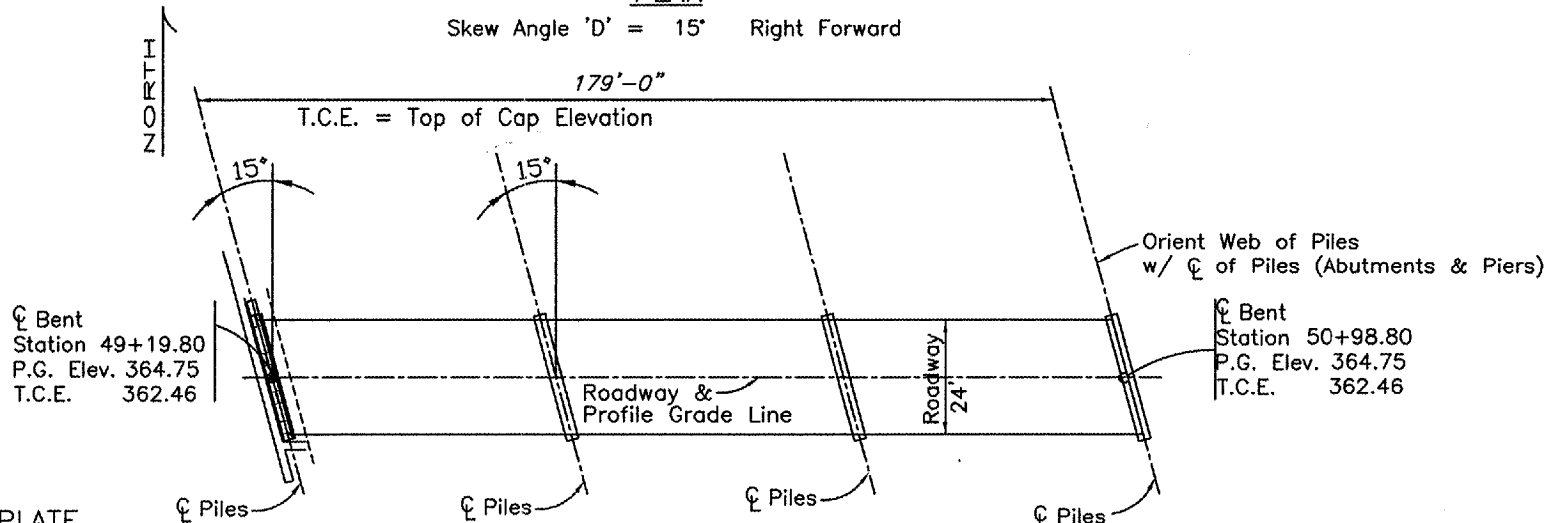
PILE DATA (2-PIERS)

TYPE	HP 12x63
CAPACITY	REFUSAL
ESTIMATED LENGTH	89 FT EACH
NUMBER REQUIRED	12

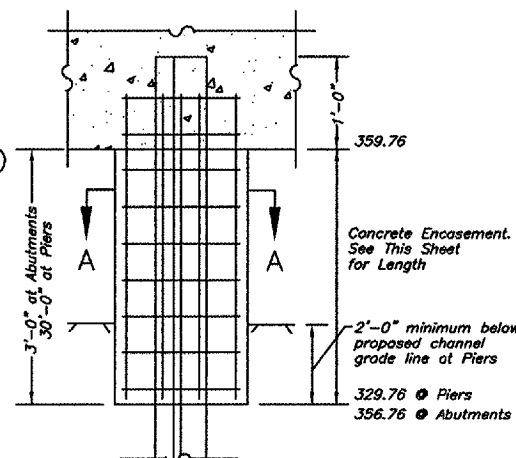
PILE DATA (2-ABUTS.)

TYPE	HP 12x63
CAPACITY	REFUSAL
ESTIMATED LENGTH	89 FT EACH
NUMBER REQUIRED	8

PLAN

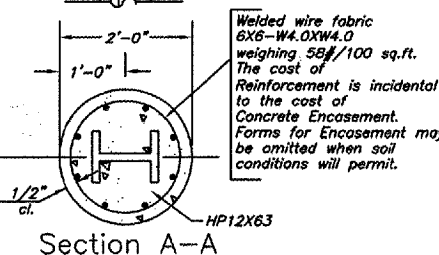
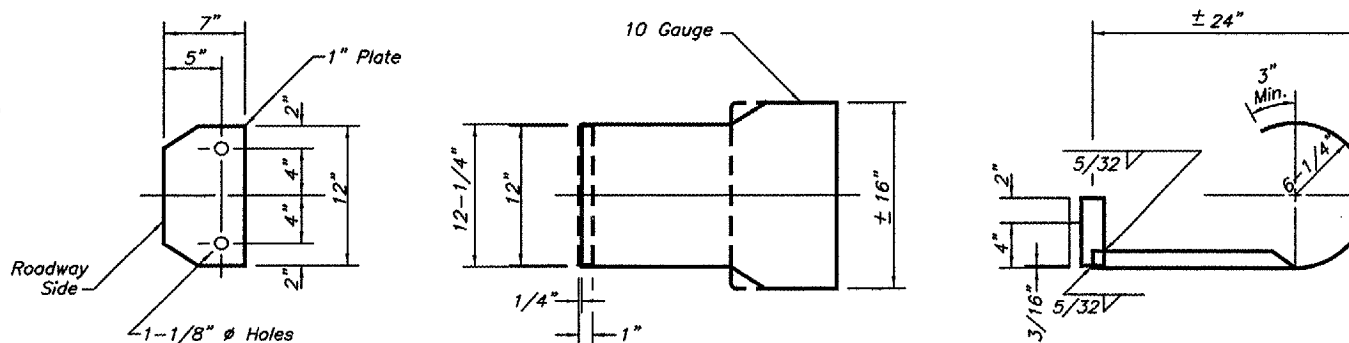


DETAIL OF HP PILE ENCASEMENT



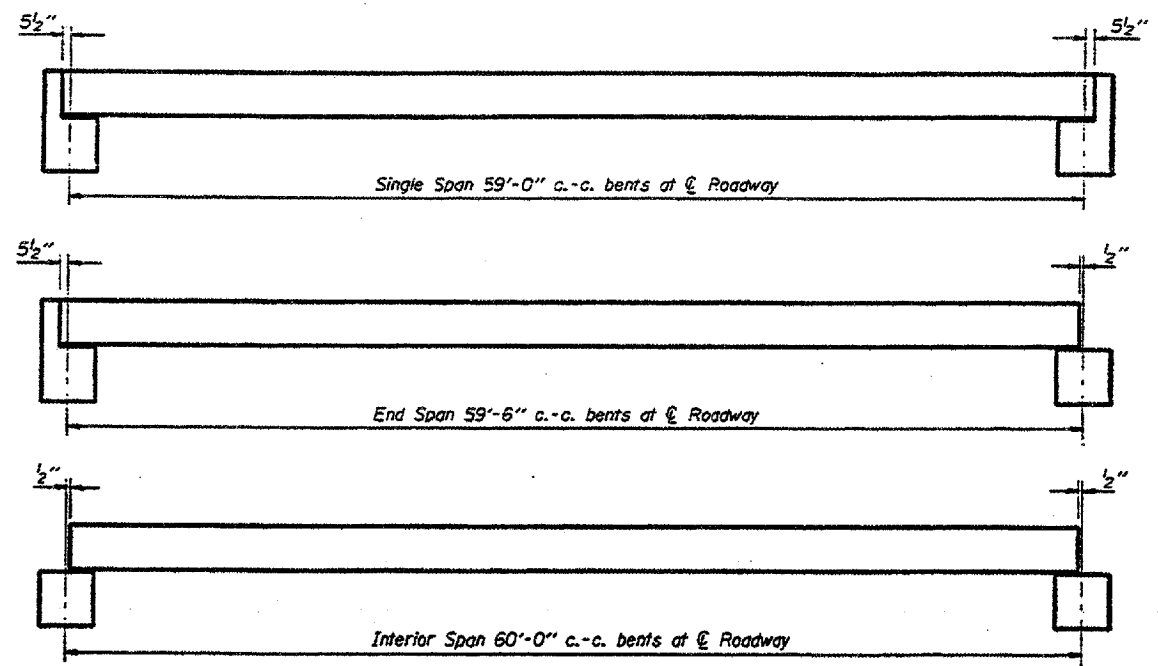
CURLED END SECTION DETAILS

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

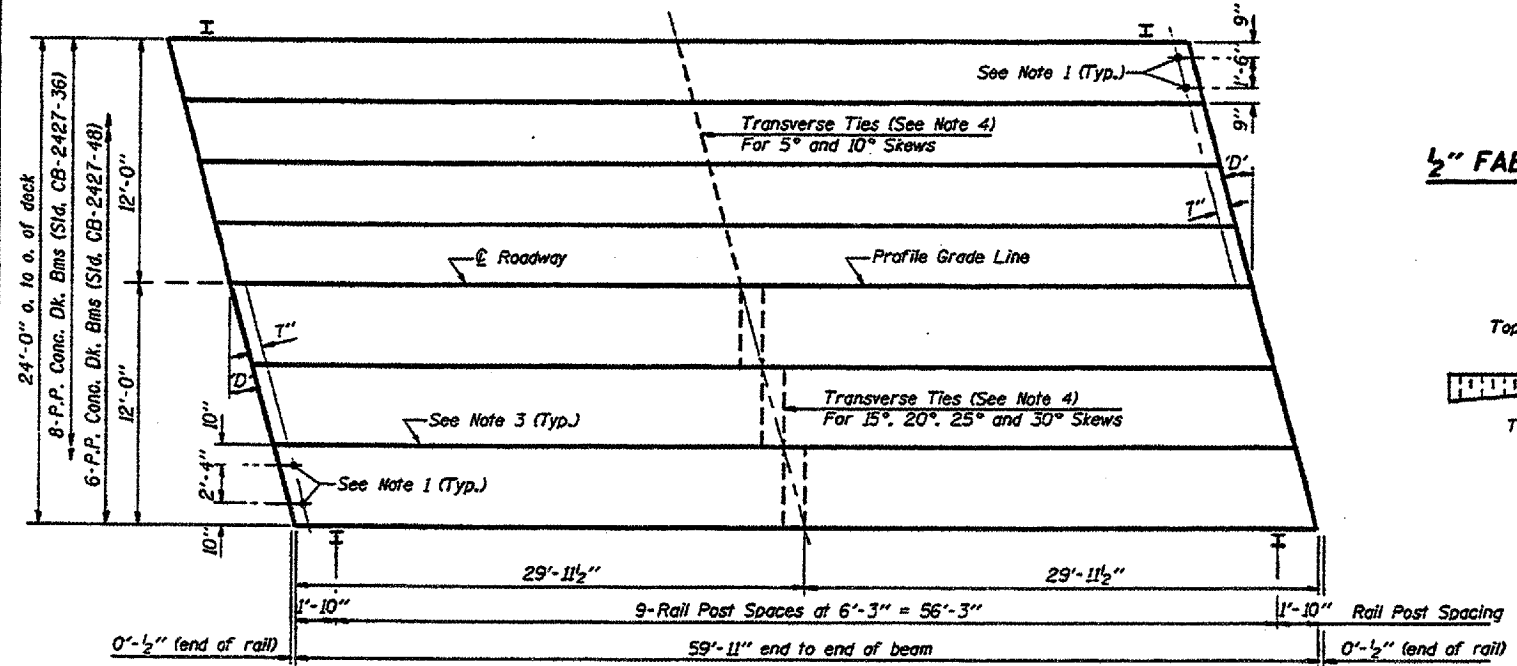


GENERAL PLAN & ELEVATION

TOWNSHIP RD 225 - INGRAM HILL ROAD
SALINE COUNTY-HARRISBURG TOWNSHIP
SECTION 04-06116-00-BR
STATION 50+09.30



TYPICAL ELEVATIONS

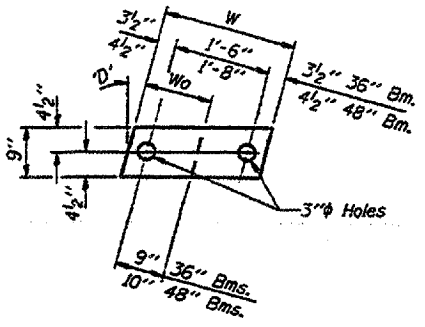
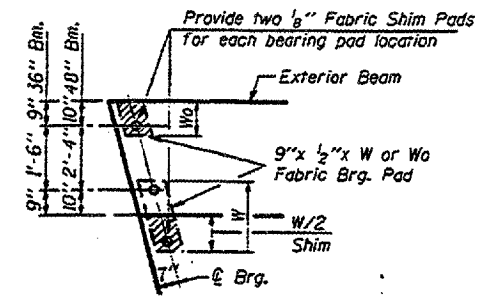


PLAN

("D" = Designated Skew Angle)

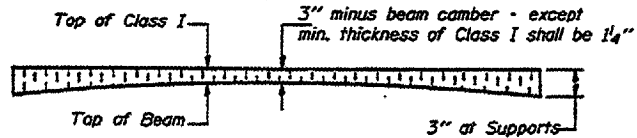
NOTES

1. 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 min. 24 hrs. prior to grouting the shear keys.
2. Nominal 1" joint at centerline pier shall be filled with non-shrink grout.
3. Longitudinal keys shall be grouted.
4. The 1" ϕ rods in the transverse tie assembly shall be tightened to a snug fit and the threads set. Pockets that receive transverse tie bar outside shall be filled with grout after transverse tie assembly is in place.

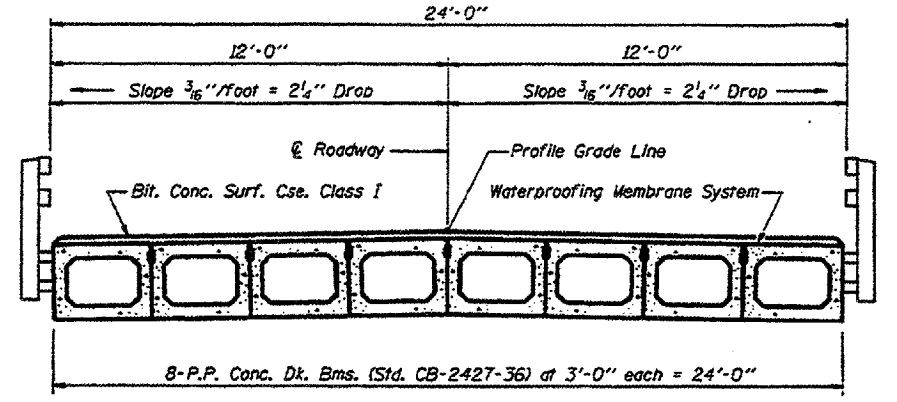


Beam	W	Wo
36"	2'-1"	1'-0 1/2"
48"	2'-5"	1'-2 1/2"

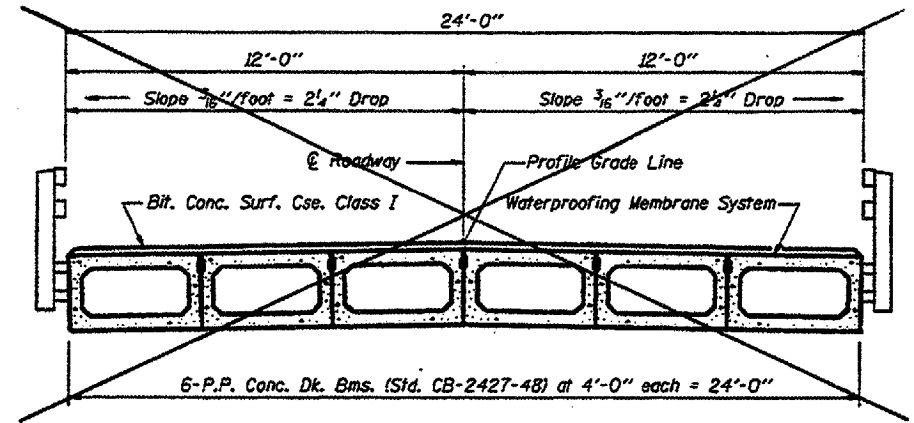
1/2" FABRIC BRG. PAD DETAILS



PROFILE OF OVERLAY

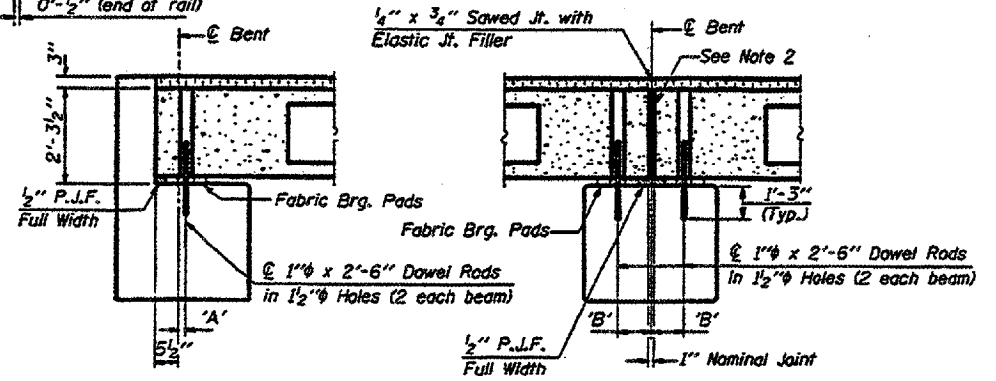


CROSS SECTION



DIMENSIONS 'A' AND 'B'

'D'	5°	10°	15°	20°	25°	30°
A	1 1/2"	1 3/4"	1 3/4"	1 3/4"	2 1/4"	2 5/8"
B	7 1/2"	7 3/4"	7 3/4"	8"	8 1/2"	8 3/4"



SECTION AT ABUTS.
(Along centerline Beams)

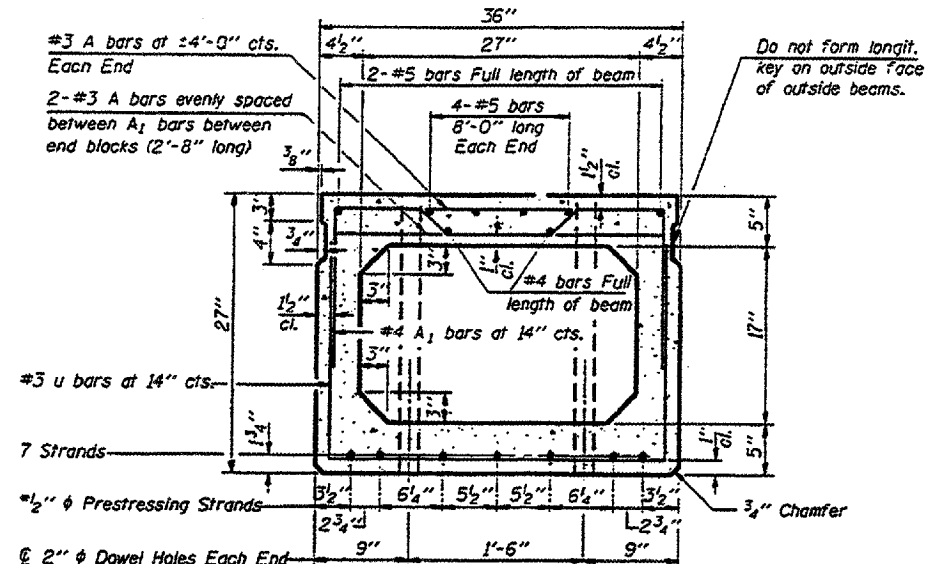
SECTION AT PIERS
(Along centerline Beams)

QUANTITIES FOR ONE SPAN

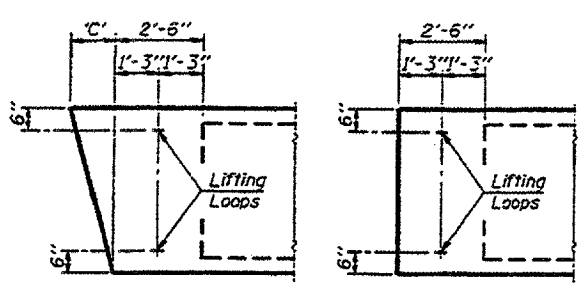
P.P. Conc. Dk. Bm. 27" Dp.	1440 Sq. Ft.
Steel Railing	120 Ft.
Bit. Conc. Surf. Cse. Class I	19.0 Tons
Waterproofing Membrane System	196.0 Sq. Yds.

P.P.C. DECK BEAM SUPERSTRUCTURE			
24' RDWY.	27" BMS.	60' SPAN	RIGHT
STANDARD CS-2427-60R			

Illinois Department of Transportation
 PASSED NOVEMBER 1, 1995
 Engineer of Bridge Design
 APPROVED NOVEMBER 1, 1995
 Engineer of Bridges and Structures

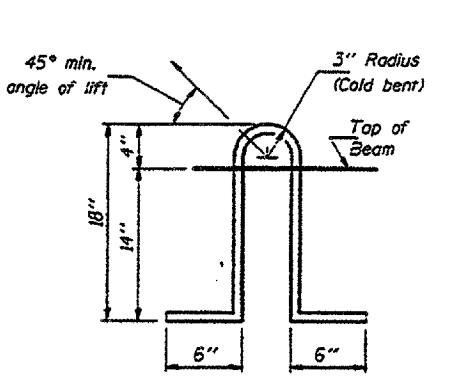


CROSS SECTION
(40' SPAN)



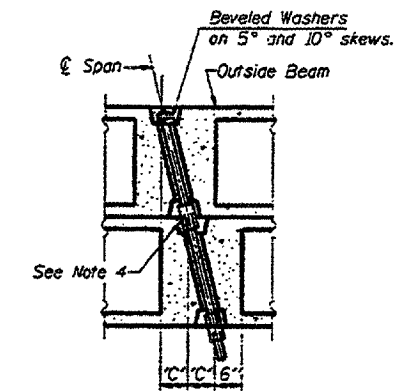
END BLOCK DETAILS

Each beam shall have four Lifting Loops, two at each end of beam cast in locations shown above. Loops shall be burned off after beams have been erected.

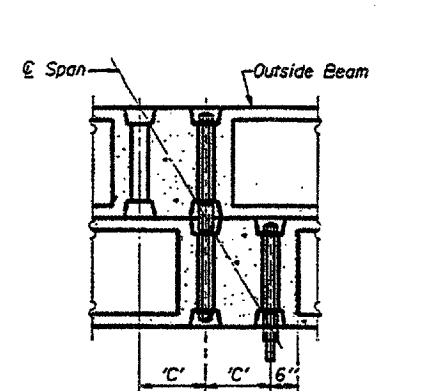


LIFTING LOOP DETAIL

Lifting loops shall be 2. 1/2" φ - 270 ksi strands, as shown. Alternate approved lifting devices are also acceptable.



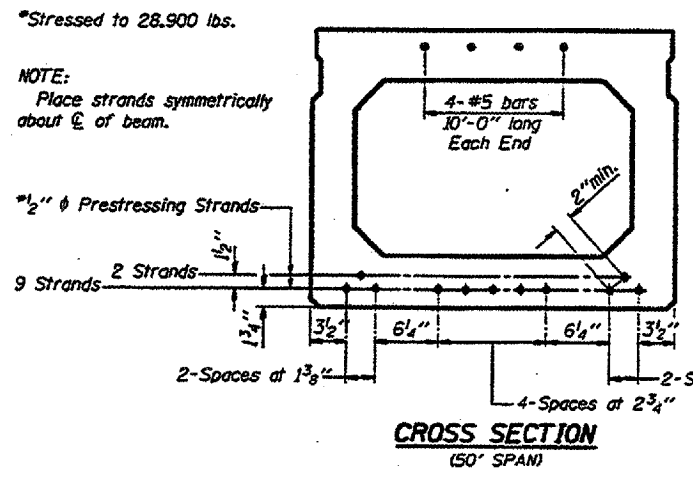
PARTIAL PLAN TRANSVERSE TIE ASSEMBLY
(D=0°, 5° and 10°)



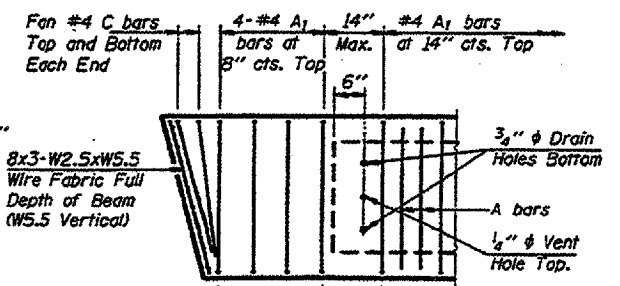
PARTIAL PLAN TRANSVERSE TIE ASSEMBLY
(D=15°, 20°, 25° and 30°)

DIMENSION 'C'

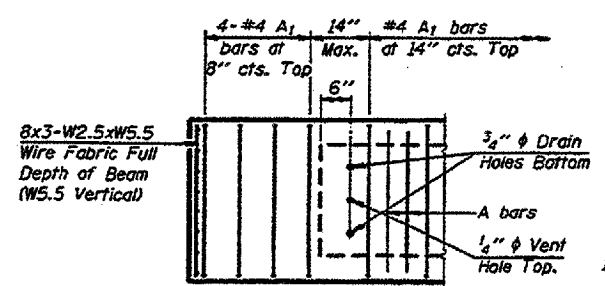
Skew Angle 'D'	0°	5°	10°	15°	20°	25°	30°
Dimension 'C' (Inches)	0	3/8	6/8	9/8	13/8	16 3/4	20 3/4



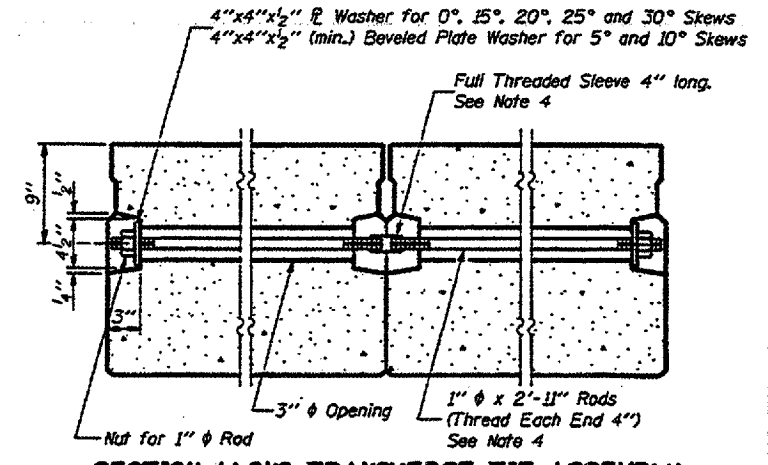
CROSS SECTION
(50' SPAN)



END REINFORCEMENT
(SKEWED)



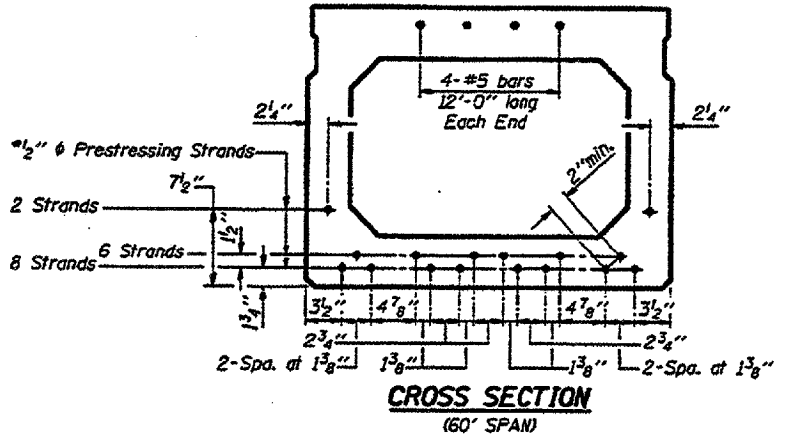
END REINFORCEMENT
(RIGHT ANGLE)



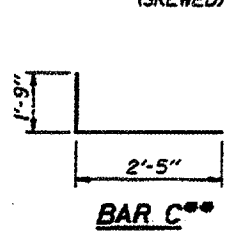
SECTION ALONG TRANSVERSE TIE ASSEMBLY
(REQUIRED FOR 50' & 60' SPANS ONLY)

NOTES

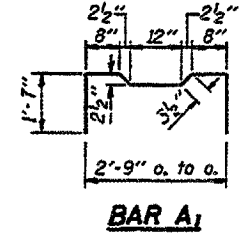
1. Prestressing steel shall be uncoated high strength, stress relieved 7-wire strand, Grade 270.
2. The nominal diameter shall be 1/2" and the nominal cross-sectional area shall be 0.153 square inches.
3. Reinforcement bars shall conform to AASHTO M-31, M-42 or M-53, Grade 60.
4. On 0°, 5° and 10° skews, alternate approved transverse tie rods of increased segmental length are acceptable.
5. Rail Post anchor devices shall be cast into outside beam as elsewhere specified.
6. When Waterproofing Membrane System is specified, the top surface of the beams shall be finished in accordance with Article 504.06 of the Standard Specifications except that the surface shall not be roughened by brooming. The finished surface shall be free of depressions or high spots with sharp corners, and the top edge of keys shall be rounded or chamfered a minimum of 1/4".
7. Low relaxation strands may be substituted for the stress relieved strands. The initial prestressing force applied to each strand shall be the same as for the stress relieved strands (28,900 lbs.).
8. Keyway surfaces shall be cleaned to remove form oil or other bond breaking material prior to shipment of the beams. Cleaning shall be done by sandblasting the keyway areas between the top of the beam and the bottom edge of the key.



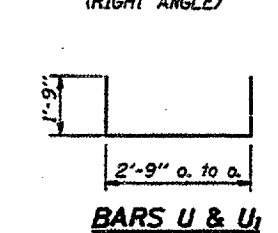
CROSS SECTION
(60' SPAN)



BAR C**



BAR A1



BARS U & U1

DESIGN STRESSES

- $f'_c = 5,000$ p.s.i.
- $f'_d =$ (See Required Release Strength Table)
- $f'_s = 270,000$ p.s.i. (1/2" φ Strand)
- $f'_u = 189,000$ p.s.i. (1/2" φ Strand)
- $f_y = 60,000$ p.s.i.

REQUIRED RELEASE STRENGTH

Span	f'_d (psi)
40'	4,000
50'	4,000
60'	4,000

Illinois Department of Transportation
 PASSED NOVEMBER 1, 1995
 Approved by: [Signature]
 Engineer of Bridge Design
 APPROVED NOVEMBER 1, 1995
 Approved by: [Signature]
 Engineer of Bridges and Structures

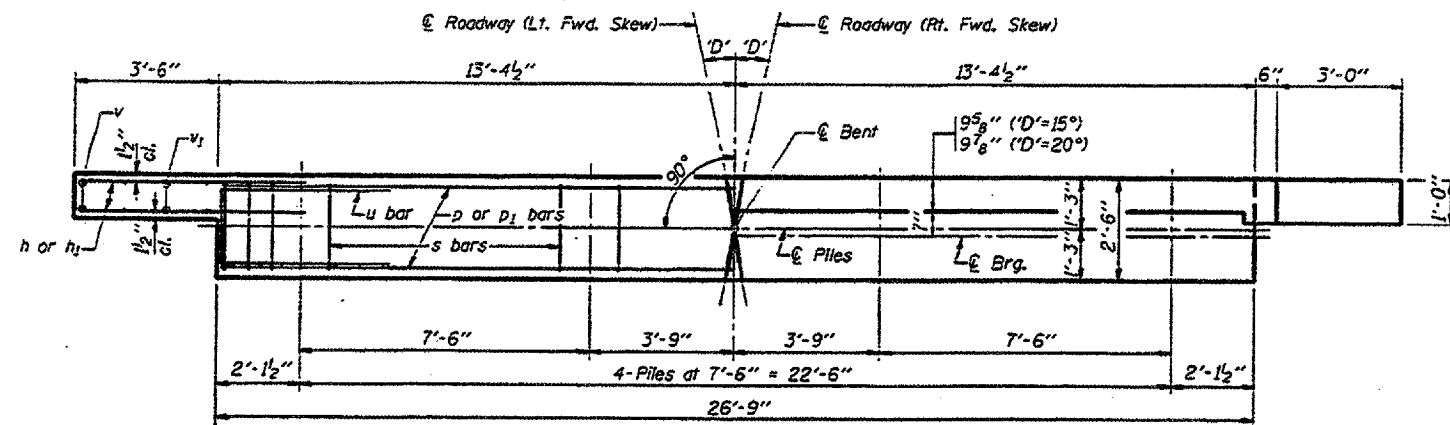
NOTE:
 The std. reinf. shown on the 40' span cross section is typical for all spans, except as shown.

****NOTE:**
 The following number of C bars shall be used:
 Skew No.
 5° and 10° — 1
 15° and 20° — 2
 25° and 30° — 3

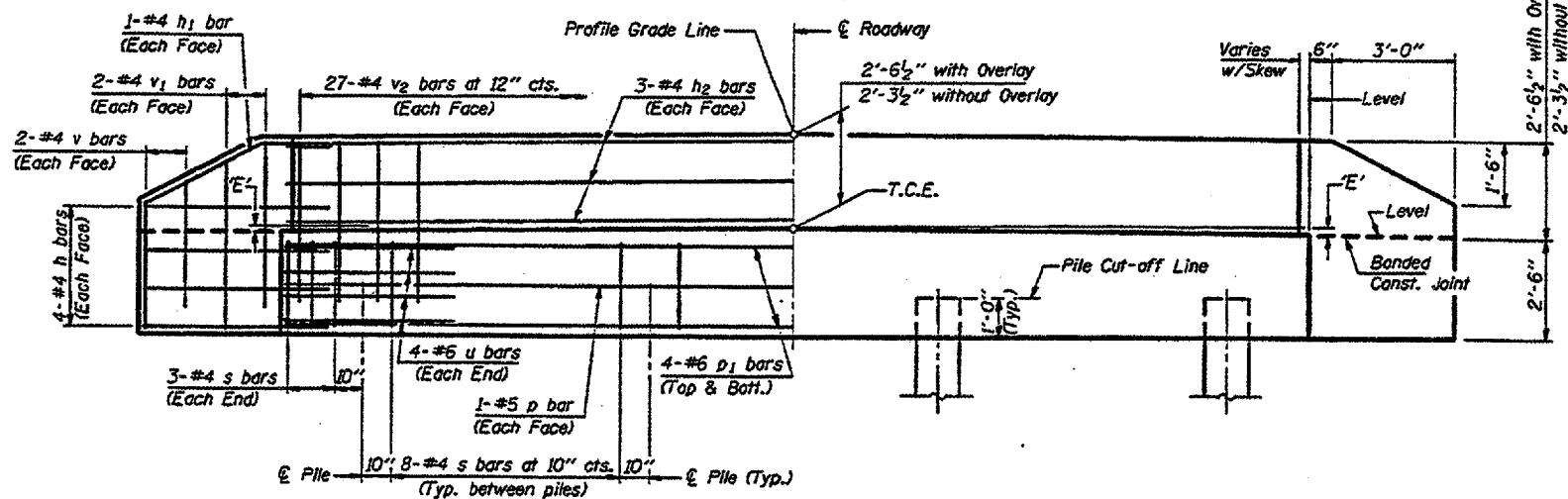
P.P.C. DECK BEAM DETAILS

24' ROADWAY	27" x 36" BEAMS
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STANDARD CB-2427-36



PLAN
(D' = Designated Skew Angle)



ELEVATION

DIMENSION 'E'

GRADE	D'=15°		D'=20°	
	UPGRADE END	DOWNGRADE END	UPGRADE END	DOWNGRADE END
0X	2 3/8"	2 3/8"	2 3/8"	2 3/8"
Over 0X to 1X	2 1/4"	2 5/8"	2 1/2"	2 5/8"
Over 1X to 2X	1 3/4"	3"	1 1/2"	3 1/8"
Over 2X to 3X	1 3/8"	3 1/2"	1"	3 3/4"
Over 3X to 4X	1"	3 7/8"	3/8"	4 1/4"

NOTES

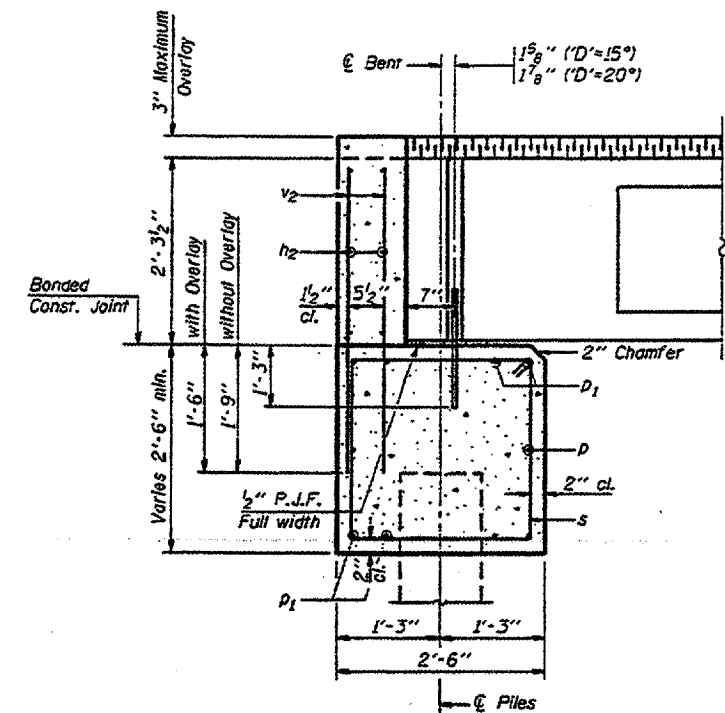
- The Backwall and the portion of the Wingwalls above the bonded construction joint shall be cast against the in-place beam.
- Reinforcement bars shall conform to A.A.S.H.T.O. M-31, M-42 or M-53, Grade 60.

MAXIMUM PILE LOADS

SPAN	TONS
40'	34
50'	38
60'	43

DESIGN STRESSES

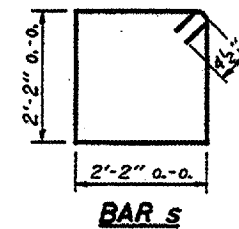
f'c = 3,500 psi
fy = 60,000 psi



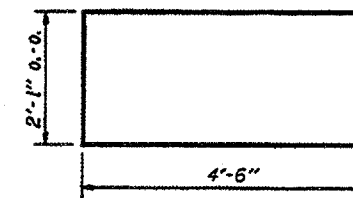
SECTION THRU ABUTMENT
(At Right Angles)

BILL OF MATERIAL FOR ONE ABUTMENT

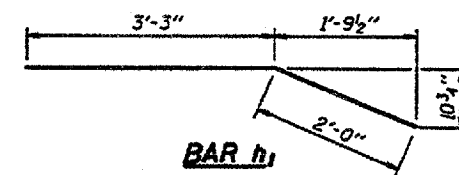
Bar	No.	Size	Length	Shape
h	16	#4	5'-0"	—
h1	4	#4	5'-3"	—
h2	6	#4	26'-5"	—
p	2	#5	26'-5"	—
p1	8	#6	26'-5"	—
s	30	#4	9'-5"	⊥
u	8	#6	11'-1"	⊥
v	8	#4	3'-2"	—
v1	8	#4	4'-2"	—
v2	54	#4	3'-11"	—
Concrete Structures			9.7 Cu. Yds.	
Reinforcement Bars			1050 Lbs.	



BAR s



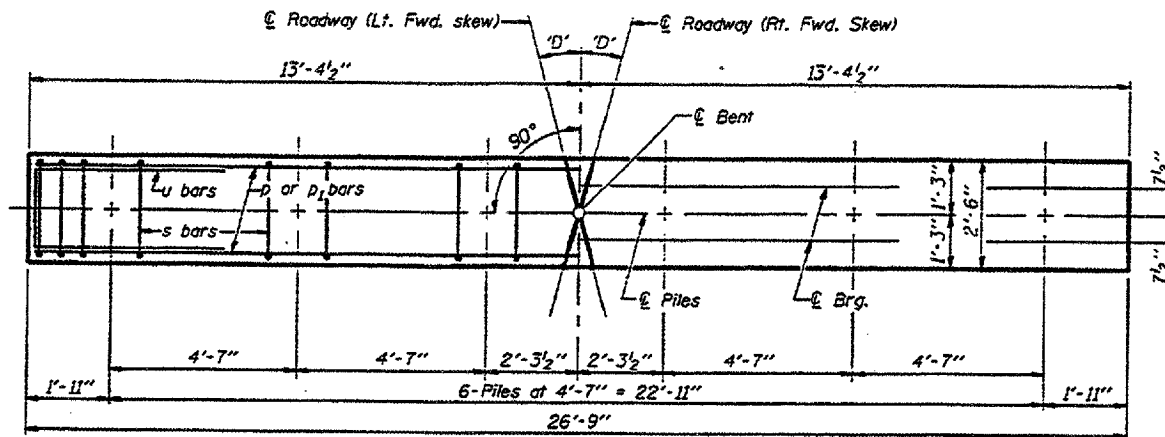
BAR u



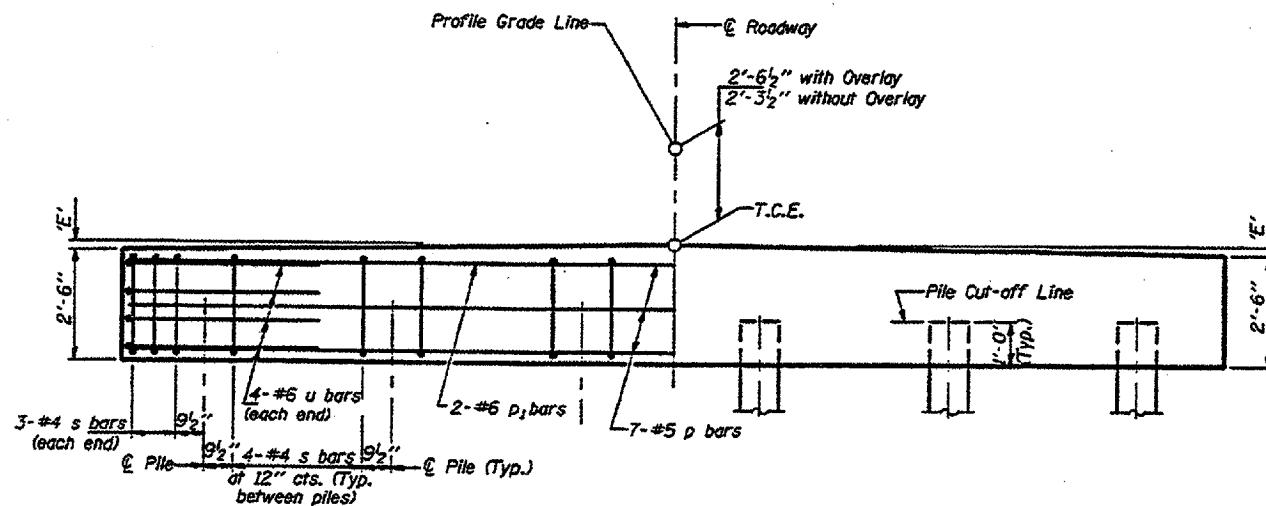
BAR h1

Illinois Department of Transportation
PASSED November 1, 1995
Eng. O. [Signature]
Engineer of Bridge Design
APPROVED November 1, 1995
Eng. R. [Signature]
Engineer of Bridges and Structures

**P.P.C. DECK BEAMS
PILE BENT ABUTMENT**
24' RDWY. 27' BMS. D'=15° OR 20°
STANDARD CA-2427-20



PLAN
(D' = Designated Skew Angle)



ELEVATION

DIMENSION 'E'

GRADE	D'=15°		D'=20°	
	UPGRADE END	DOWNGRADE END	UPGRADE END	DOWNGRADE END
0%	2 3/8"	2 3/8"	2 3/8"	2 3/8"
Over 0% to 1%	2 1/2"	2 3/8"	2 3/8"	2 3/8"
Over 1% to 2%	1 3/4"	3"	1 1/2"	3 1/8"
Over 2% to 3%	1 3/8"	3 1/2"	1"	3 3/4"
Over 3% to 4%	1"	3 7/8"	3/8"	4 1/4"

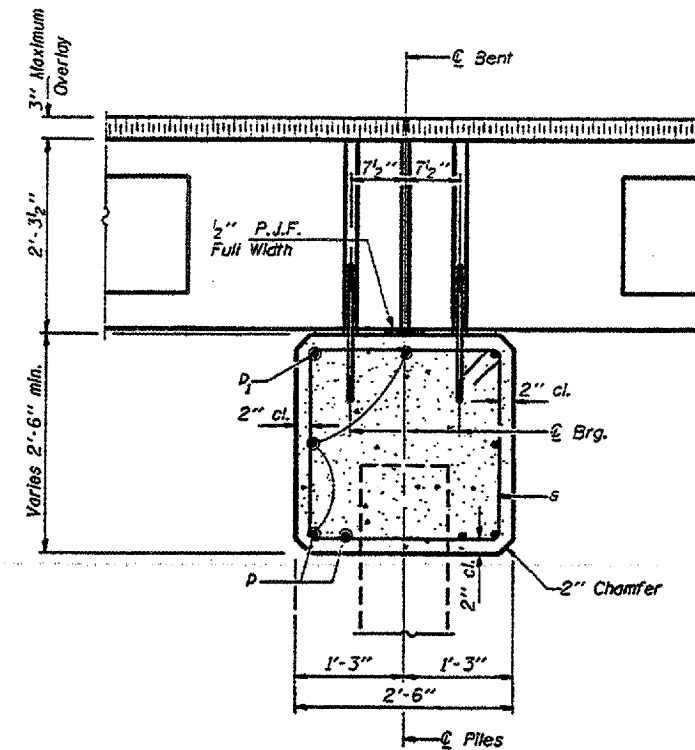
MAXIMUM PILE LOADS

SPAN	TONS
40'	34
50'	39
60'	45

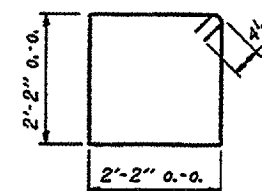
Longer of Either Span Supported by Pier.

DESIGN STRESSES

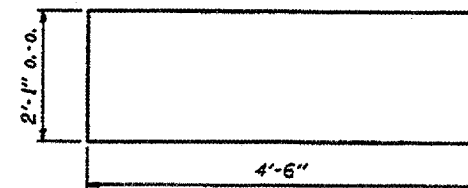
$f'_c = 3,500$ psi
 $f_y = 60,000$ psi



SECTION THRU PIER
(At Right Angles)



Bar s



Bar u

BILL OF MATERIAL FOR ONE PIER

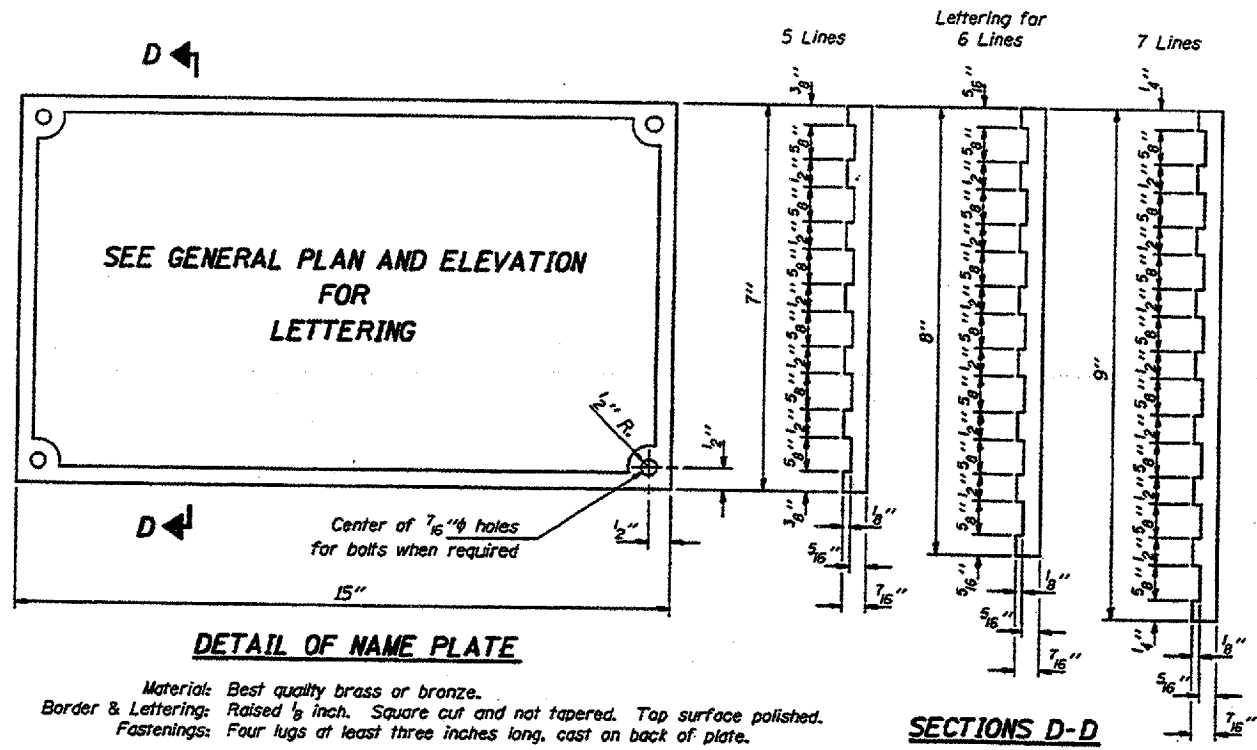
Bar	No.	Size	Length	Shape
D	7	#5	26'-5"	—
D1	2	#6	26'-5"	—
s	26	#4	9'-5"	□
u	8	#6	11'-1"	—
Concrete Structures			6.5	Cu. Yds.
Reinforcement Bars			570	Lbs.

NOTE

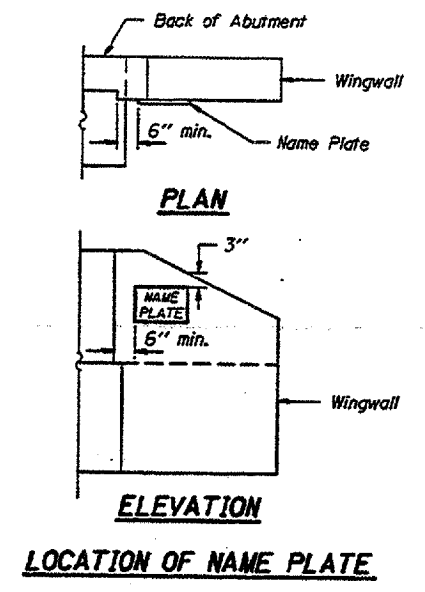
Reinforcement bars shall conform to A.A.S.H.T.O. M-31, M-42 or M-53, Grade 60.

Illinois Department of Transportation
PASSED November 1, 1995
APPROVED November 1, 1995

**P.P.C. DECK BEAMS
PILE BENT PIER**
24' RDWY. | 27" BMS. | D'=15° OR 20°
STANDARD CP-2427-20



Material: Best quality brass or bronze.
 Border & Lettering: Raised $\frac{1}{8}$ inch. Square cut and not tapered. Top surface polished.
 Fastenings: Four lugs at least three inches long, cast on back of plate.



Illinois Department of Transportation

PASSED November 1, 1935

Ray D. ...
 Engineer of Bridge Design

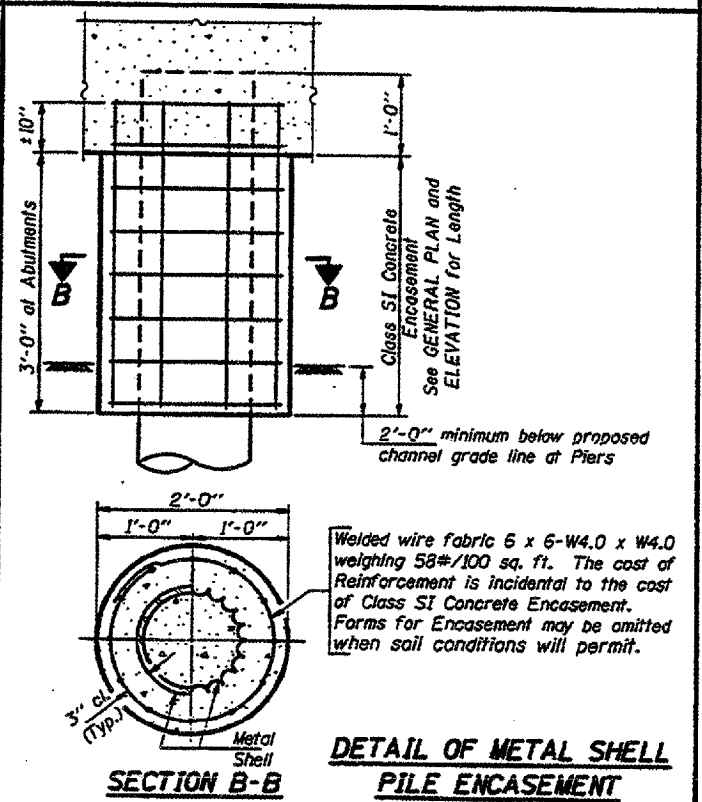
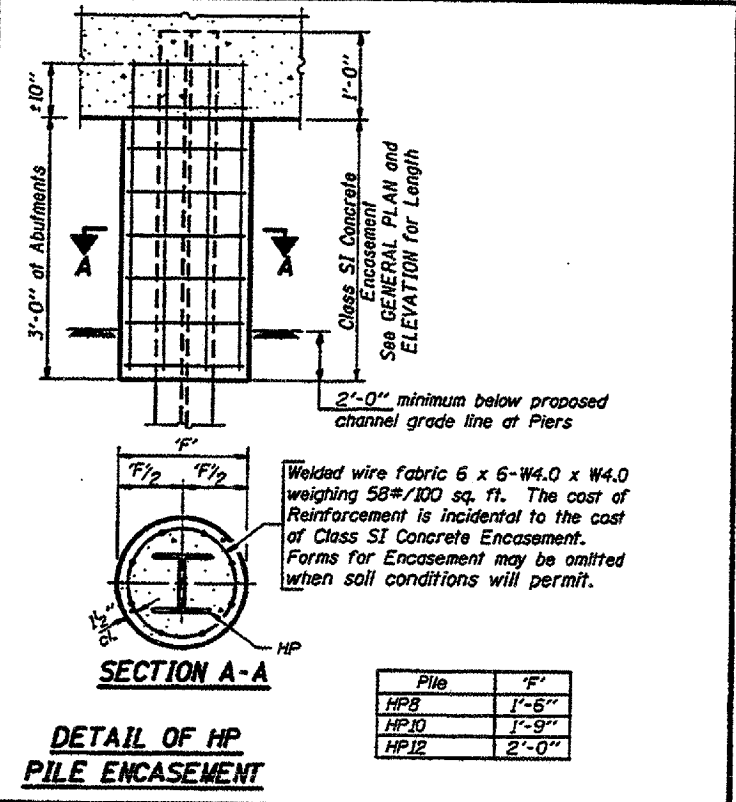
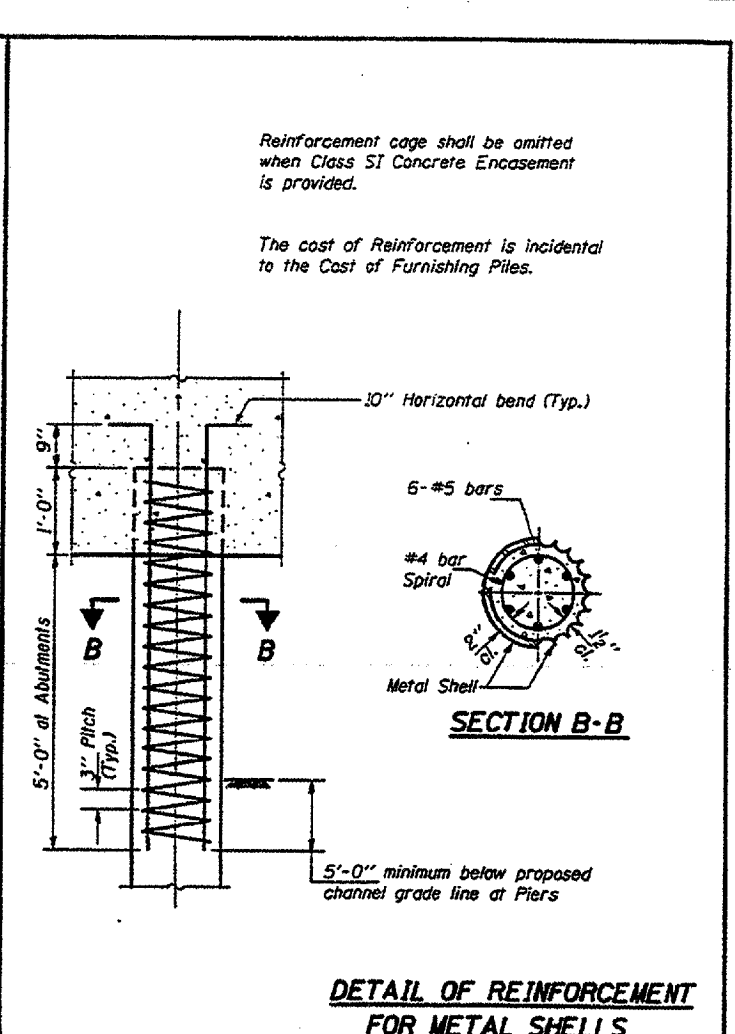
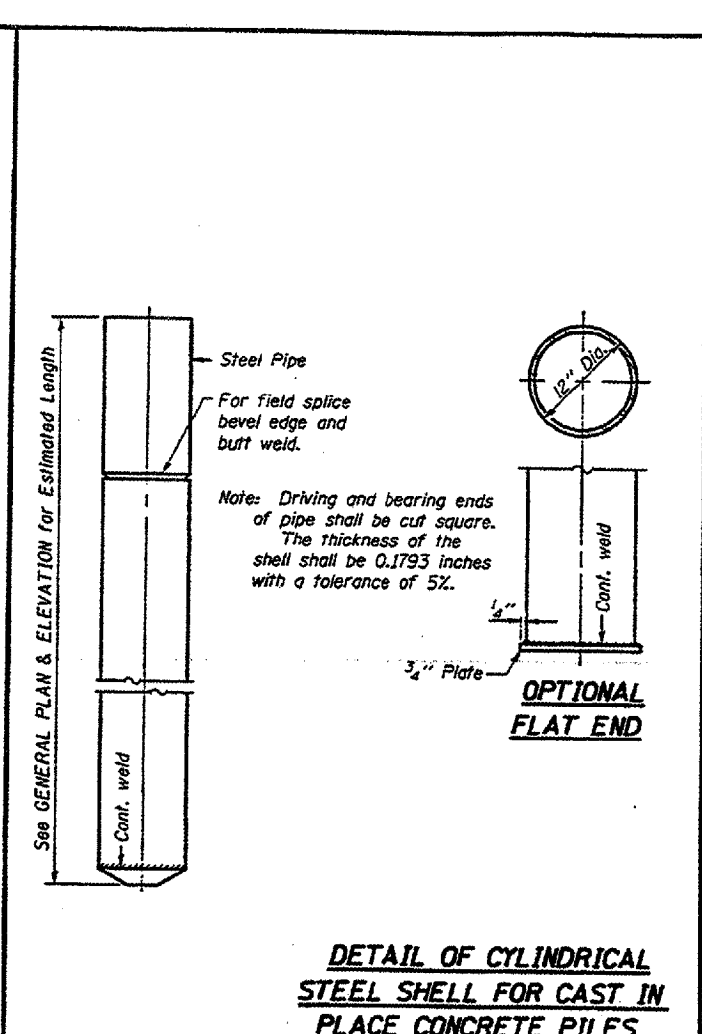
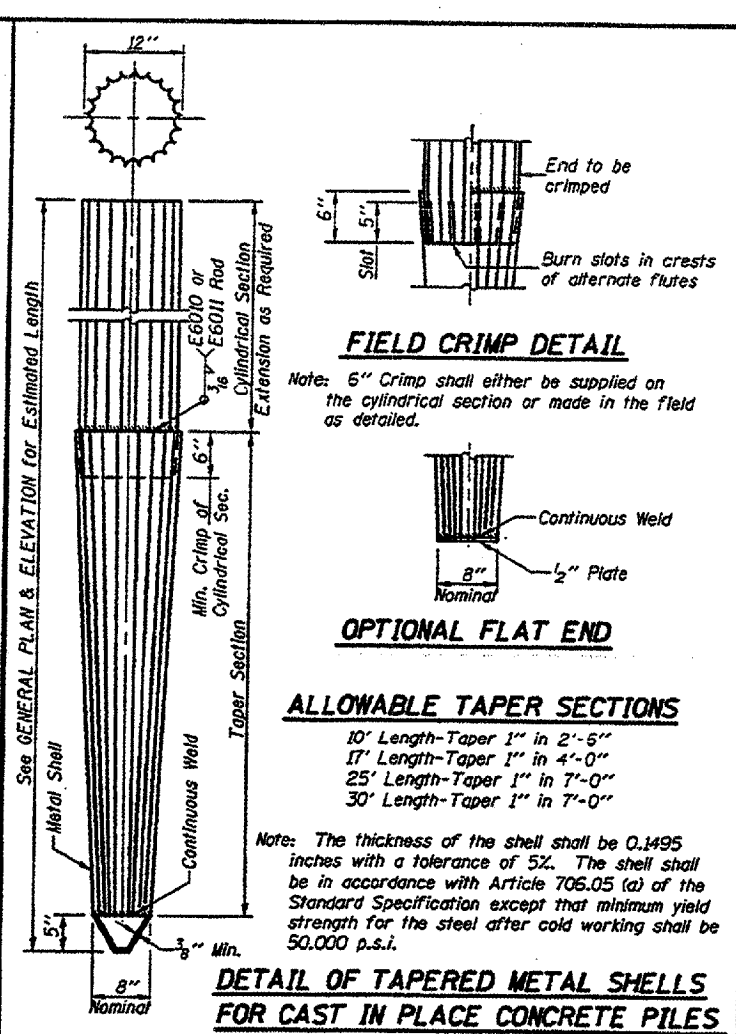
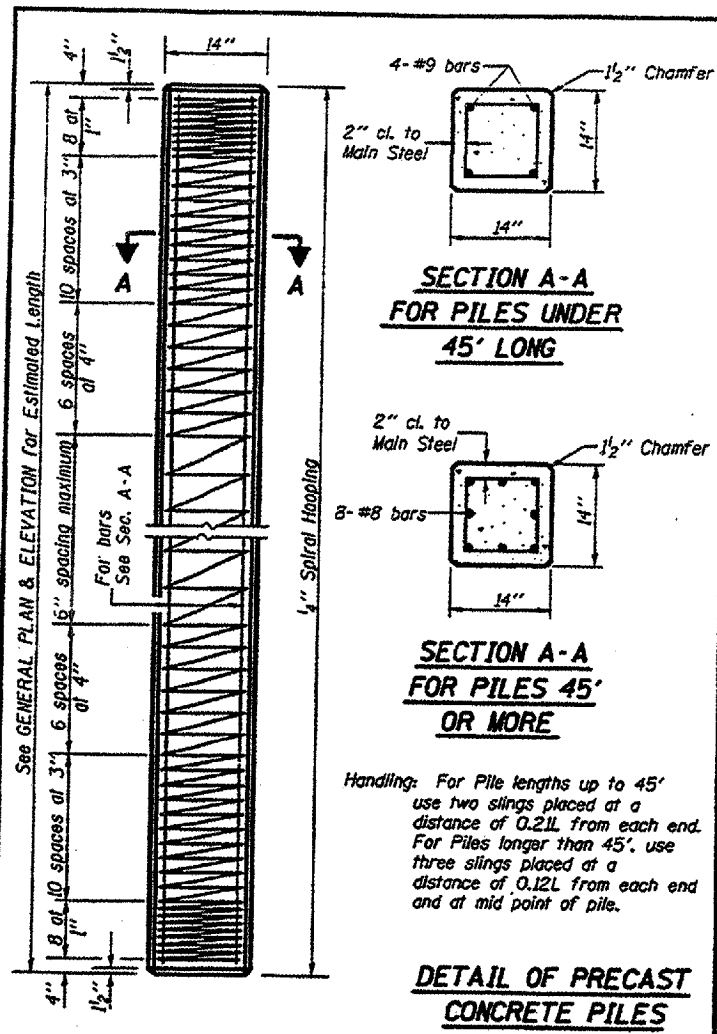
APPROVED November 1, 1935

Robert E. ...
 Engineer of Bridges and Structures

KS:MS

84-1-1-1-34

NAME PLATE
 STANDARD CN



QUANTITIES/LIN. FT. OF ENCASEMENT (STEEL PILES)

Pile Size	Item	Quantity
HP8	Class SI Concrete Encasement	0.063 C.Y.
HP10	Class SI Concrete Encasement	0.085 C.Y.
HP12	Class SI Concrete Encasement	0.112 C.Y.

(METAL SHELL PILES)

Pile Size	Item	Quantity
12" Dia.	Class SI Concrete Encasement	0.087 C.Y.

PILE DETAILS

STANDARD CX-1

Illinois Department of Transportation

PASSED November 1, 1995

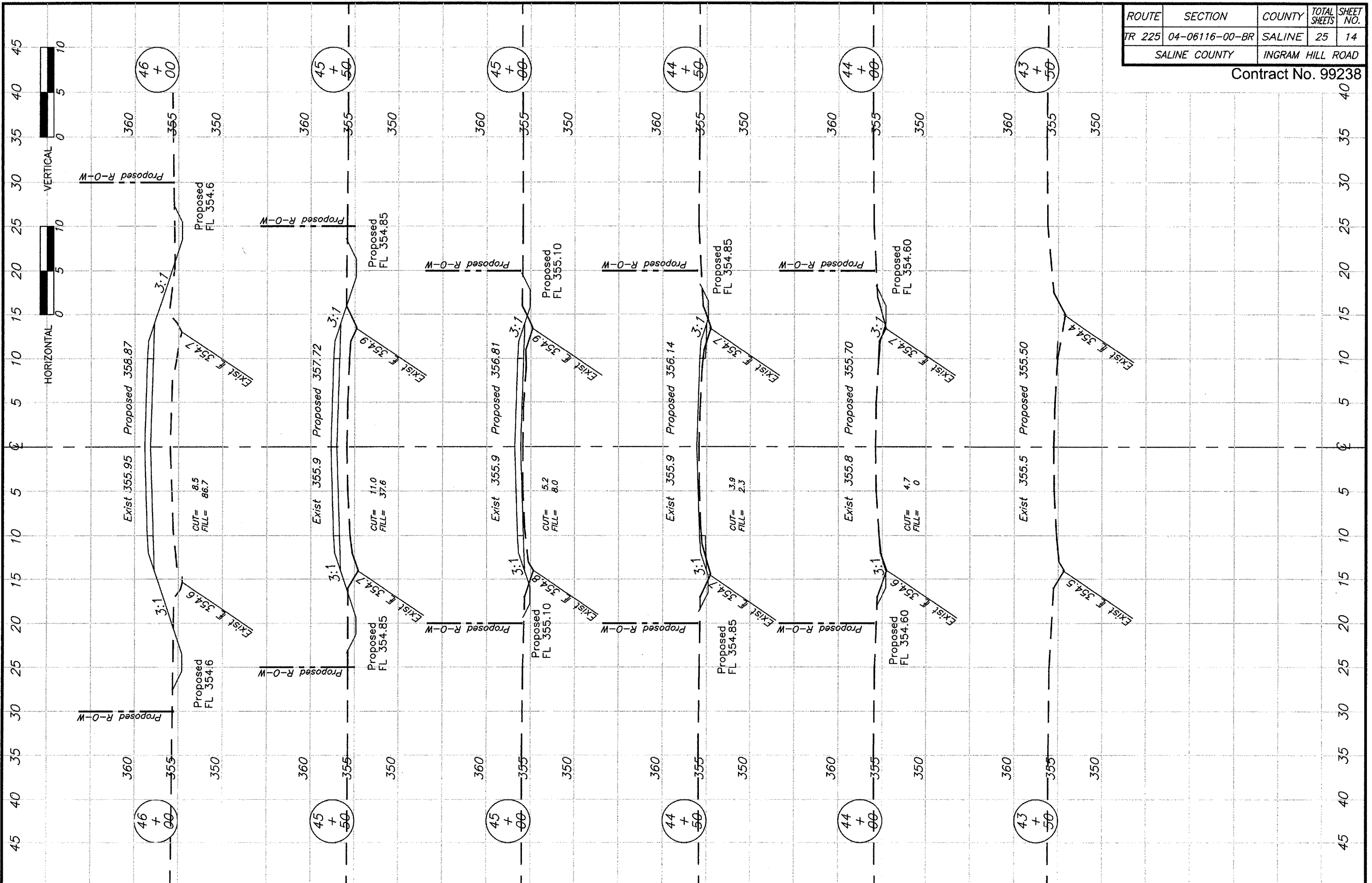
Approved by: *[Signature]*
 Engineer of Bridge Design

APPROVED November 1, 1995

Approved by: *[Signature]*
 Engineer of Bridges and Structures

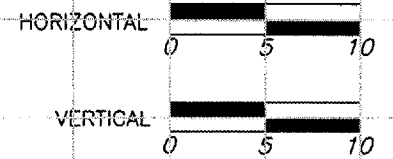
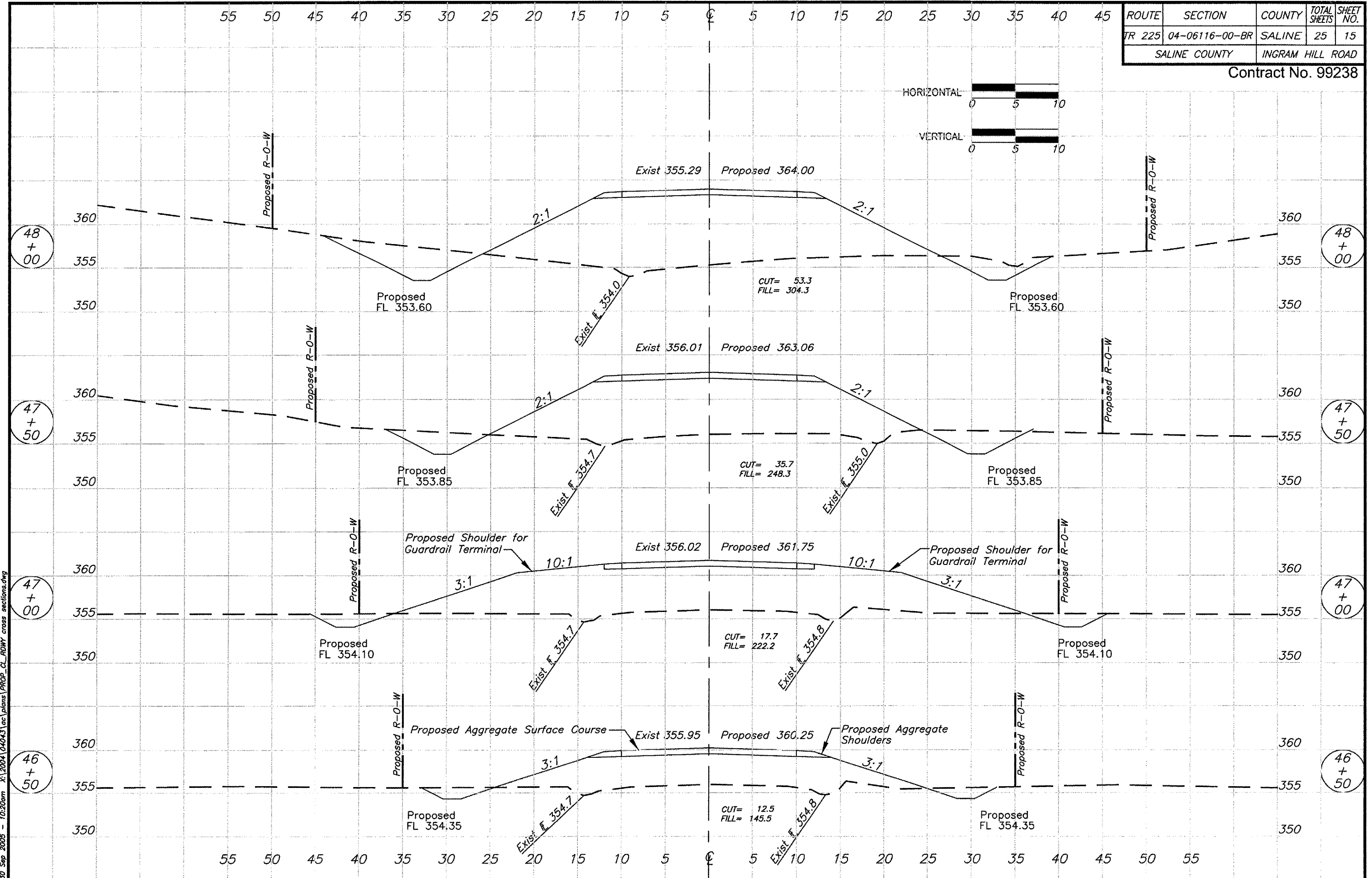
ROUTE	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
TR 225	04-06116-00-BR	SALINE	25	14
SALINE COUNTY		INGRAM HILL ROAD		

Contract No. 99238



ROUTE	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
TR 225	04-06116-00-BR	SALINE	25	15
SALINE COUNTY		INGRAM HILL ROAD		

Contract No. 99238



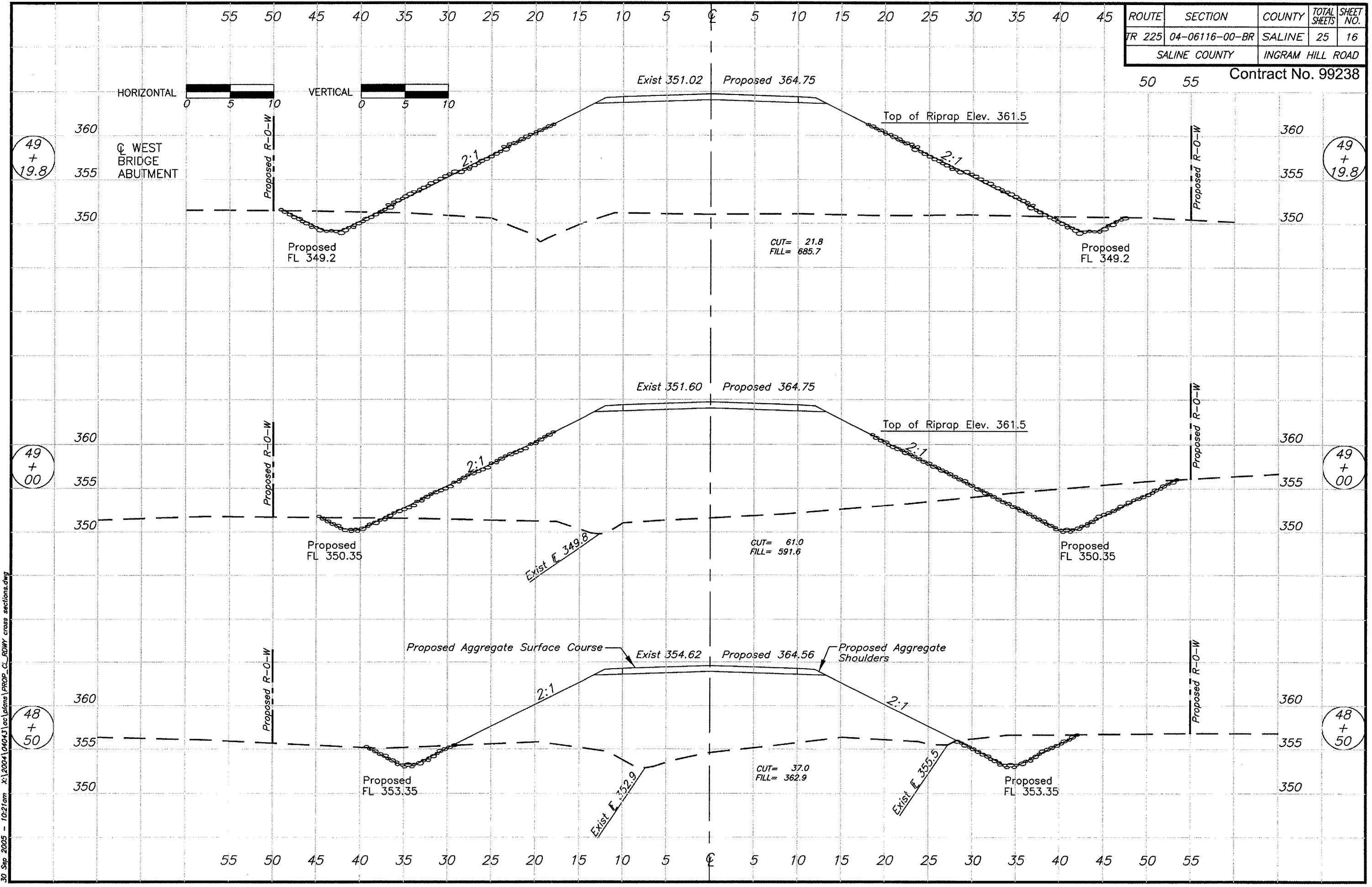
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STATION 46+50 TO 48+00

BROWN & ROBERTS, INC.

ROUTE	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
TR 225	04-06116-00-BR	SALINE	25	16
SALINE COUNTY		INGRAM HILL ROAD		

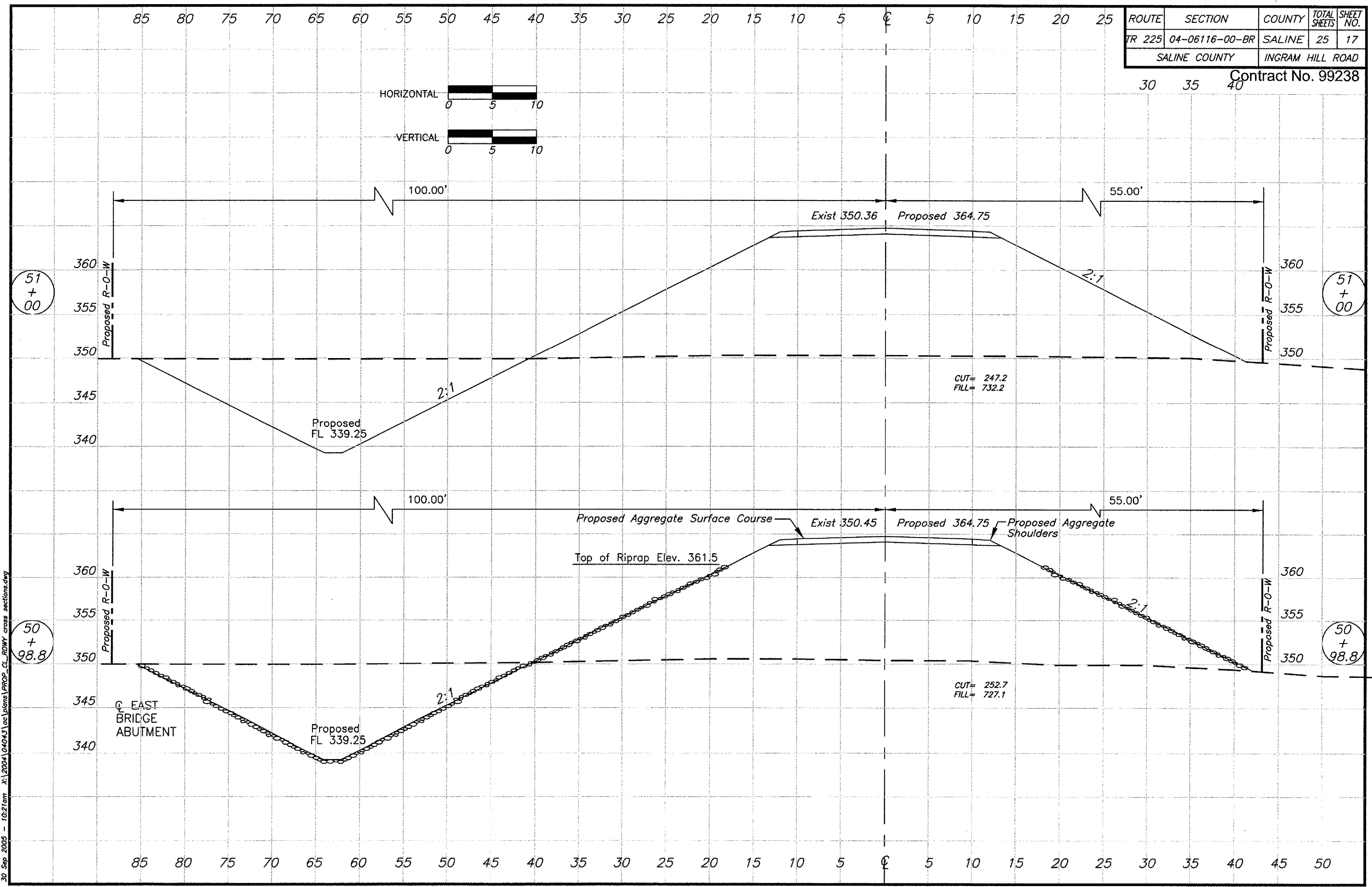
Contract No. 99238



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ROUTE	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
TR 225	04-06116-00-BR	SALINE	25	17
SALINE COUNTY		INGRAM HILL ROAD		

Contract No. 99238



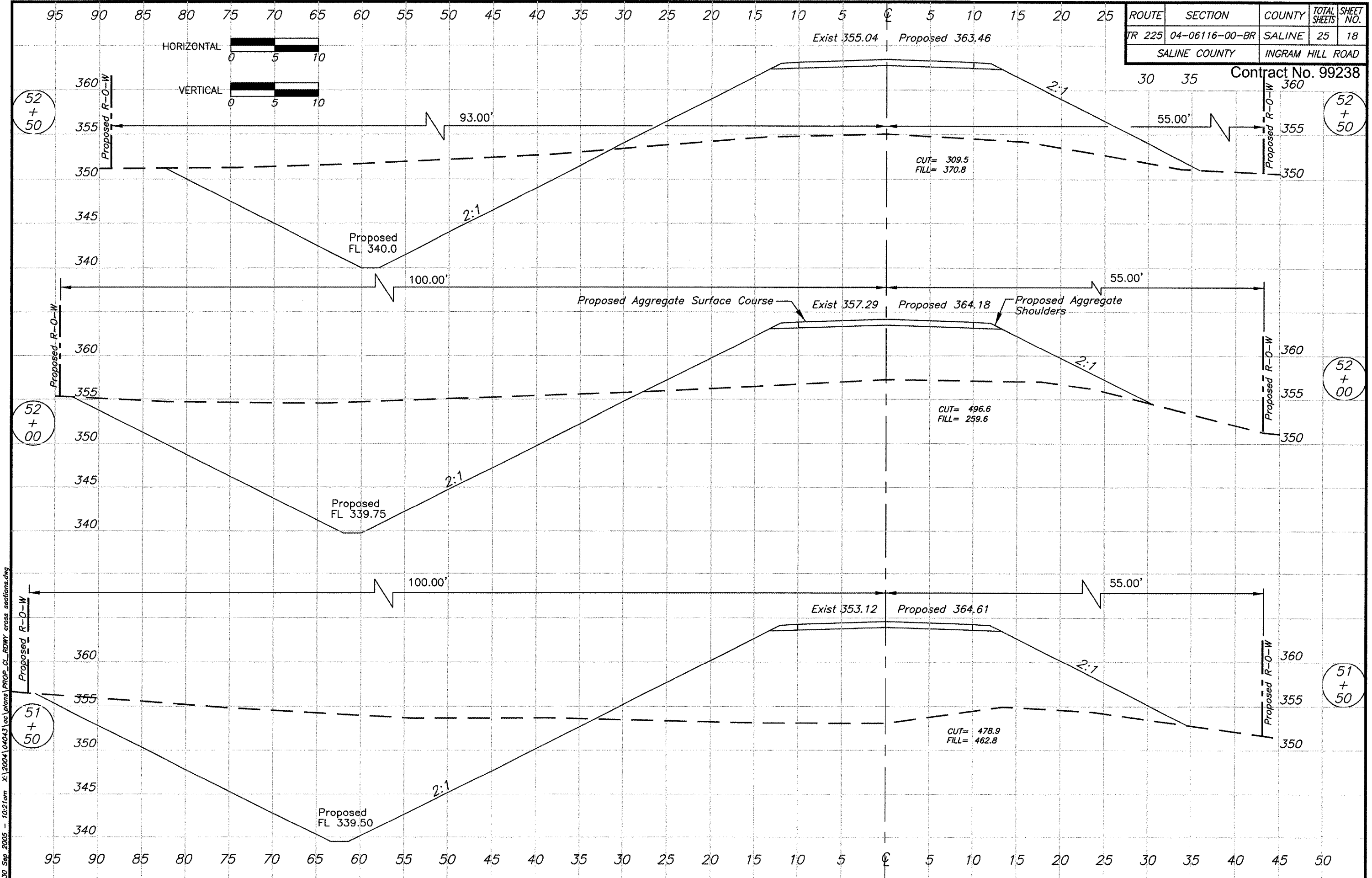
STATION 50+98 TO 51+00

BROWN & ROBERTS, INC.

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TR 225	04-06116-00-BR	SALINE	25	18
SALINE COUNTY		INGRAM HILL ROAD		

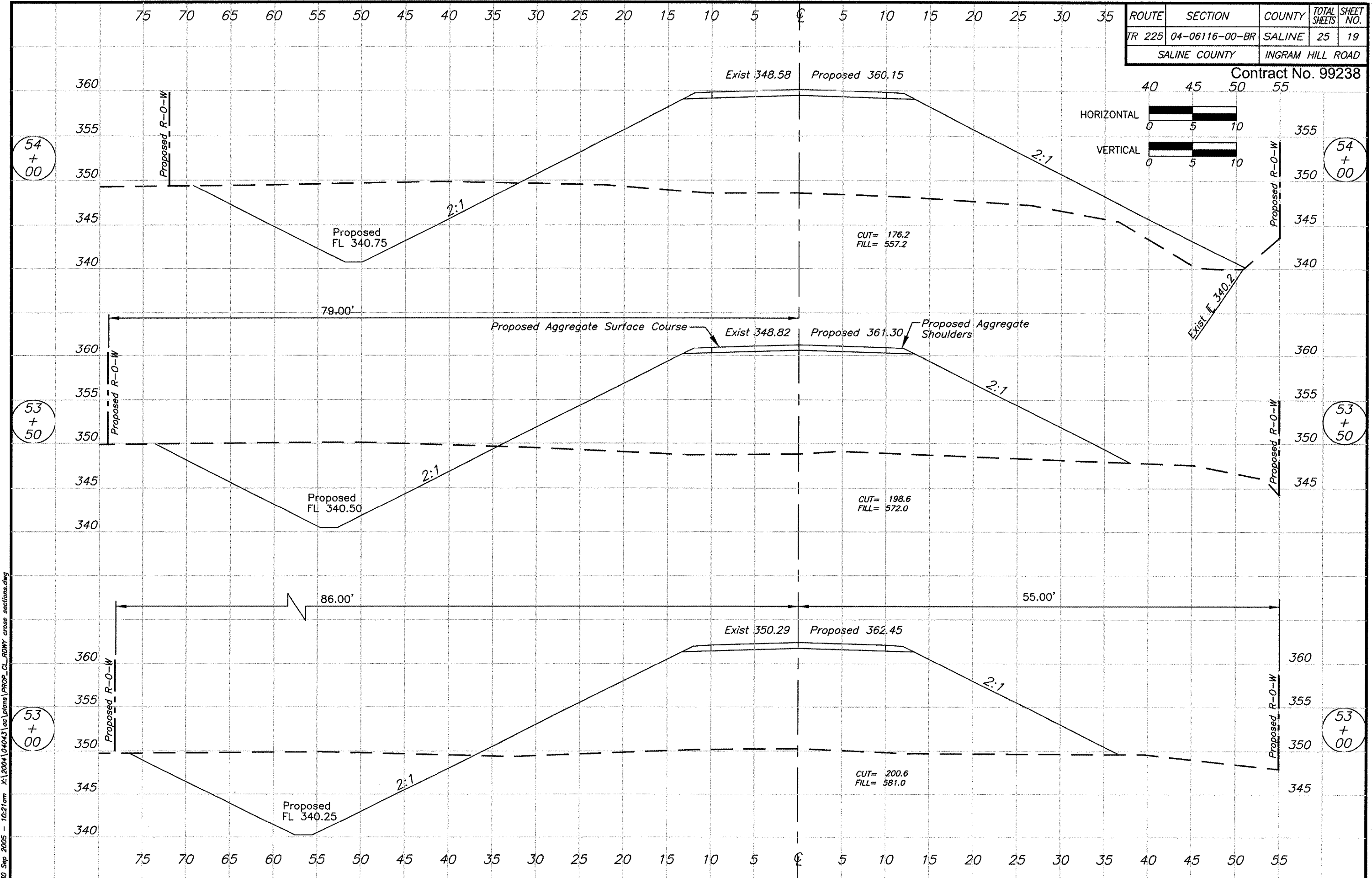
Contract No. 99238



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ROUTE	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
TR 225	04-06116-00-BR	SALINE	25	19
SALINE COUNTY		INGRAM HILL ROAD		

Contract No. 99238



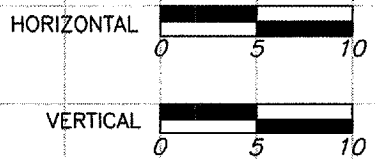
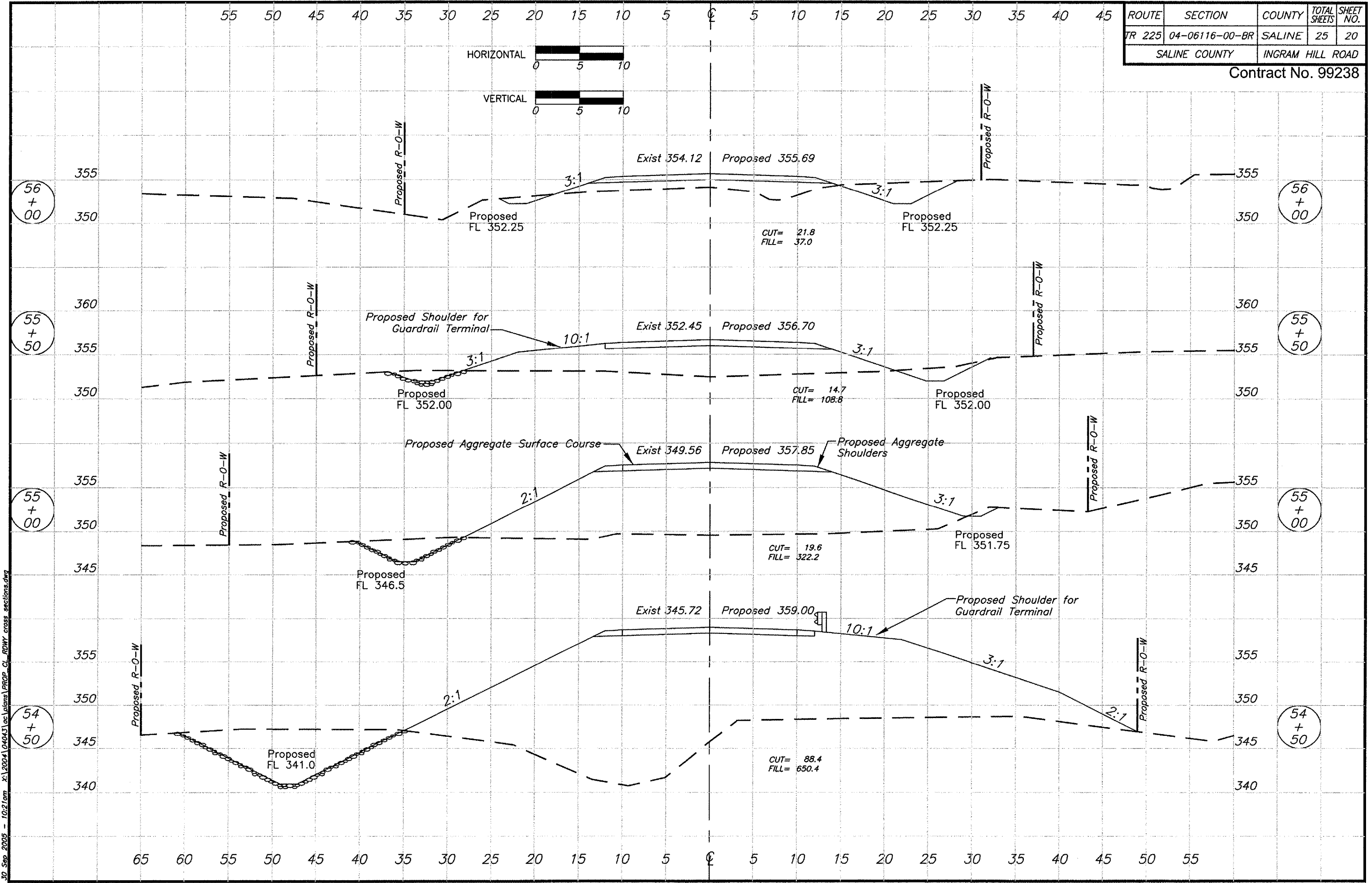
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STATION 53+00 TO 54+00

BROWN & ROBERTS, INC.

ROUTE	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
TR 225	04-06116-00-BR	SALINE	25	20
SALINE COUNTY		INGRAM HILL ROAD		

Contract No. 99238



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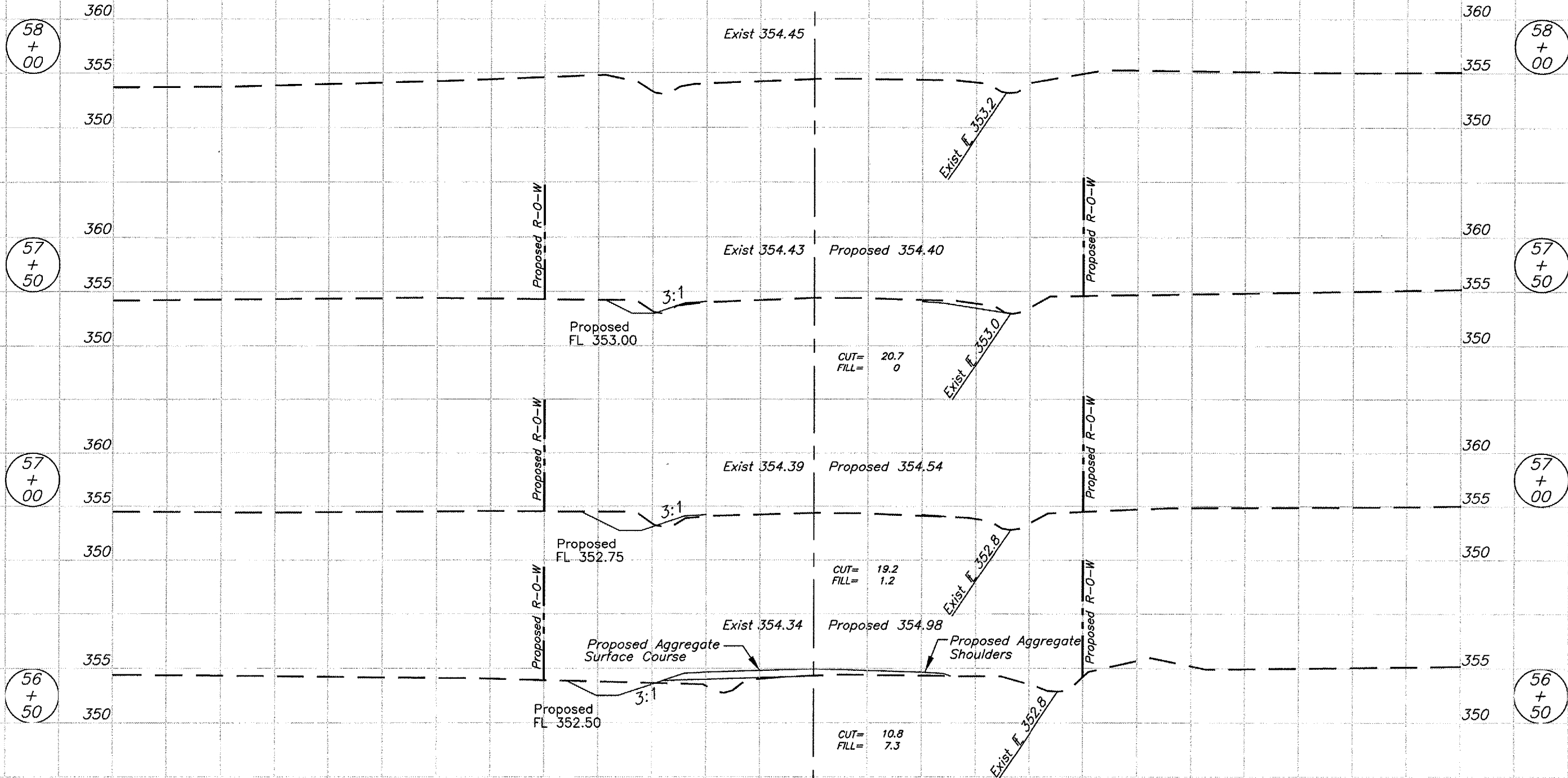
STATION 54+50 TO 56+00

BROWN & ROBERTS, INC.

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ROUTE	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
TR 225	04-06116-00-BR	SALINE	25	21
SALINE COUNTY		INGRAM HILL ROAD		

Contract No. 99238



30 Sep 2005 - 10:22am X:\2004\040431\ac\plans\PROP-CL-RDWY cross sections.dwg

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. Excavation and grading.
3. Driving pile for piers and abutments.
4. Construction of piers and abutments.
5. Placement of Deck Beams.
6. Placement of Aggregate Surface Course.
7. Seeding and permanent erosion control systems.

ROUTE	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
TR 225	04-06116-00-BR	SALINE	25	22
SALINE COUNTY		INGRAM HILL ROAD		

Contract No. 99238

AREA OF CONSTRUCTION SITE

1. The total area of the construction site is estimated to be 4.5 Acres of which approximately 4.5 Acres will be disturbed.

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.


Jeff Jones Date: September 30, 2005
Saline County Engineer

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 225	04-06116-00-BR	SALINE	25	23
SALINE COUNTY		INGRAM HILL ROAD		

Contract No. 99238

