

FAP RTE	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
869	(105A)B-1	SALINE	71	1

P-99-003-06
D-99-010-07

71+2=73

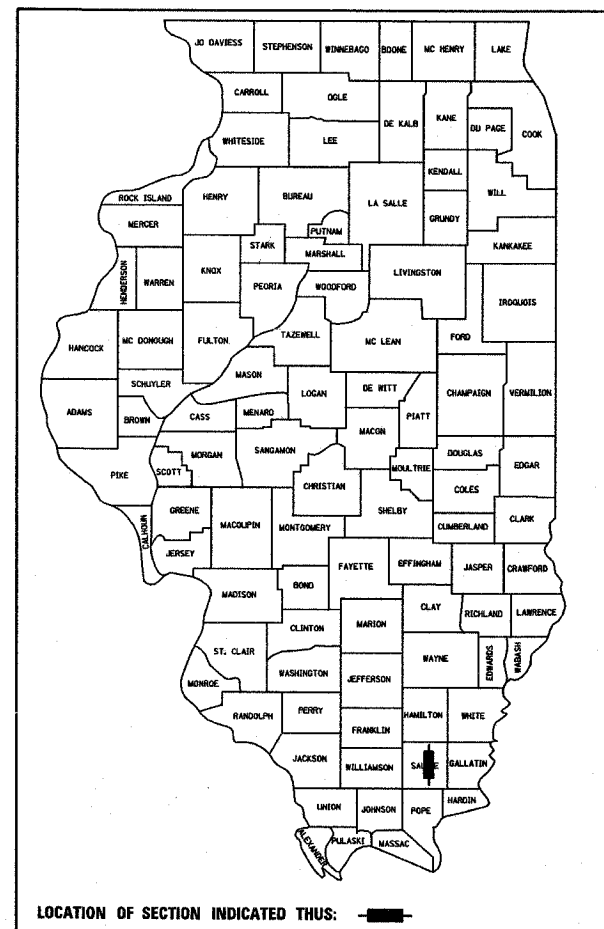
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION
DIVISION OF HIGHWAYS

**PROPOSED
HIGHWAY PLANS**

FAP ROUTE 869 (IL 34)
SECTION (105A)B-1
PROJECT: *BRF-0869(034)*
SALINE COUNTY

C-99-020-07

STRUCTURE REPLACEMENT
OVER WEST HARRISBURG DRAINAGE DITCH

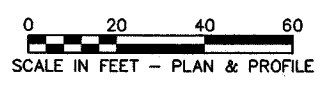


FUNCTIONAL CLASSIFICATION: OTHER PRINCIPAL ARTERIAL

DESIGN SPEED:	40 mph
POSTED SPEED:	40 mph
ADT:	4030 (2008)
PV:	91.8%
SU:	5.8%
MU:	2.4%

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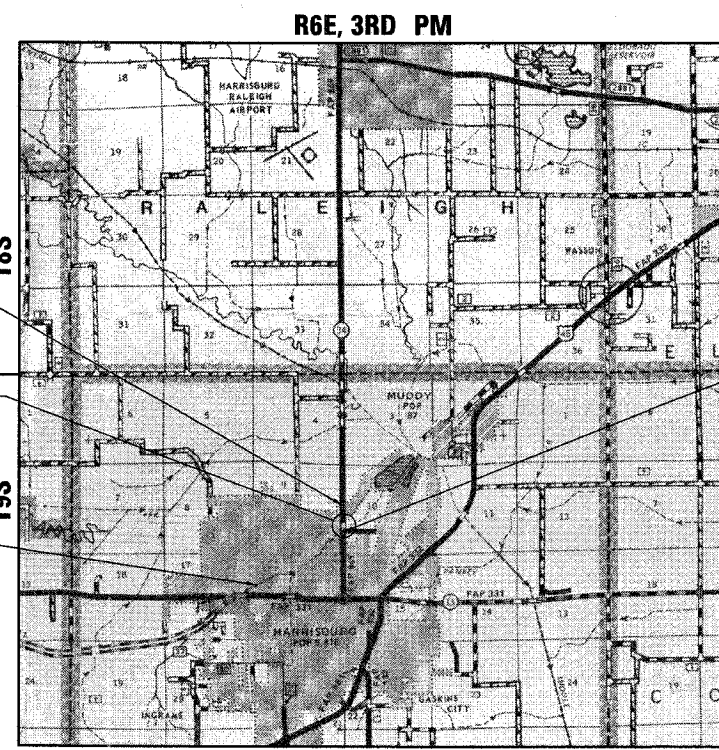


FULL SIZE PLANS HAVE BEEN PREPARED USING STANDARD ENGINEERING SCALES. REDUCED SIZED PLANS WILL NOT CONFORM TO STANDARD SCALES. IN MAKING MEASUREMENTS ON REDUCED PLANS, THE ABOVE SCALES MAY BE USED.

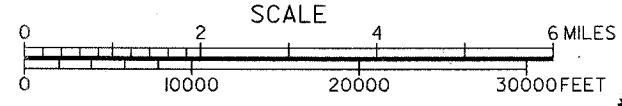
MICROFILMED _____
REEL NUMBER _____
AWARDED _____
RESIDENT ENGINEER _____
AS BUILT CHANGES WERE MADE ON THE FOLLOWING SHEETS _____

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

DISTRICT 9 NO. (618) 549-2171
PROJECT ENGINEER: DAVID PICHE
UNIT CHIEF:
TOWNSHIP: HARRISBURG
CONTRACT NO.: 98999

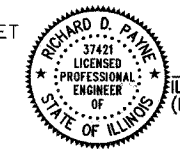


LOCATION MAP



GROSS LENGTH = 694.93 FT. = 0.132 MI.
NET LENGTH = 694.93 FT. = 0.132 MI.

**DESIGN DESIGNATION
N.A.**



Richard D. Ryan
DATE: 3/31/08
ILLINOIS PROFESSIONAL LICENSE NO. 37421
(EXPIRATION DATE: 11-30-09)

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION
DIVISION OF HIGHWAYS

SUBMITTED *April 25 20 09*
Man C. Puma
DEPUTY DIRECTOR OF HIGHWAYS, REGION ENGINEER

June 27 20 08
Eric E. Harter
ENGINEER OF DESIGN AND ENVIRONMENT

June 27 20 08
Christine M. Reed
DIRECTOR OF HIGHWAYS, CHIEF ENGINEER

**PRINTED BY THE AUTHORITY
OF THE STATE OF ILLINOIS**



LIST OF ILLINOIS DOT HIGHWAY STANDARDS

STANDARD NO.	DESCRIPTION
000001-05	STANDARD SYMBOLS, ABBREVIATIONS AND PATTERNS
001001-01	AREAS OF REINFORCEMENT BARS
001006	DECIMAL OF AN INCH AND OF A FOOT
280001-04	TEMPORARY EROSION CONTROL SYSTEMS
420001-07	PAVEMENT JOINTS
420401-06	BRIDGE APPROACH PAVEMENT
442201-03	CLASS C AND D PATCHES
482011-03	HMA SHLD. STRIPS/SHLDS. WITH RESURFACING OR WIDENING AND RESURFACING PROJECTS
515001-02	NAME PLATE FOR BRIDGES
542301-01	PRECAST REINFORCED CONCRETE FLARED END SECTION
542401	METAL END SECTION FOR PIPE CULVERTS
542601	REINFORCED CONCRETE PIPE ELBOW
601101	CONCRETE HEADWALL FOR PIPE DRAIN
602401-01	MANHOLE, TYPE A
602601-01	PRECAST REINFORCED CONCRETE FLAT SLAB TOP
602701-01	MANHOLE STEPS
604001-02	FRAME AND LIDS, TYPE 1
610001-03	SHOULDER INLET WITH CURB
630001-07	STEEL PLATE BEAM GUARDRAIL
630201-05	PCC/HMA STABILIZATION AT STEEL PLATE BEAM GUARDRAIL
630301-04	SHOULDER WIDENING FOR TYPE 1 (SPECIAL) GUARDRAIL TERMINALS
631011-04	TRAFFIC BARRIER TERMINAL, TYPE 2
631026-04	TRAFFIC BARRIER TERMINAL, TYPE 5
631031-06	TRAFFIC BARRIER TERMINAL, TYPE 6
635001	DELINEATORS
635006-02	REFLECTOR AND TERMINAL MARKER PLACEMENT
635011-01	REFLECTOR MARKER AND MOUNTING DETAILS
664001-01	CHAIN LINK FENCE
666001	RIGHT OF WAY MARKERS
701001-01	OFF-RD OPERATIONS, 2L, 2W, MORE THAN 4.5 m (15') AWAY
701006-02	OFF-RD OPERATIONS, 2L, 2W, 4.5 m (15') TO 600 mm (24") FROM PAVEMENT EDGE
701011-01	OFF-RD MOVING OPERATIONS, 2L, 2W, DAY ONLY
701201-02	LANE CLOSURE, 2L, 2W, DAY ONLY, FOR SPEEDS ≥ 45 MPH
701301-02	LANE CLOSURE, 2L, 2W, SHORT TIME OPERATIONS
701311-02	LANE CLOSURE, 2L, 2W, MOVING OPERATIONS - DAY ONLY
701321-09	LANE CLOSURE, 2L, 2W, BRIDGE REPAIR WITH BARRIER
701326-02	LANE CLOSURE, 2L, 2W, PAVEMENT WIDENING, FOR SPEEDS ≥ 45 MPH
701901	TRAFFIC CONTROL DEVICES
704001-04	TEMPORARY CONCRETE BARRIER
720001	SIGN PANEL MOUNTING DETAILS
720006-01	SIGN PANEL ERECTION DETAILS
720011	METAL POSTS FOR SIGNS, MARKERS & DELINEATORS
729001	APPLICATIONS OF TYPES A & B METAL POSTS (FOR SIGNS & MARKERS)
780001-01	TYPICAL PAVEMENT MARKINGS

GENERAL NOTES

- THE ENGINEER SHALL BE THE SOLE JUDGE CONCERNING CURING TIME FOR THE VARIOUS HMA LIFTS.
- EXCEPT AS NOTED ON THE PLANS, PAVEMENT GRADES SHOWN ARE AT THE TOP OF PAVEMENT SURFACES.
- ALL SAWCUTTING OF EXISTING PAVEMENT SHALL BE CONSIDERED INCLUDED IN THE PAY ITEMS INVOLVED. THE MINIMUM SAW DEPTH IN THE PAVEMENT SHALL BE 1/2" UNLESS OTHERWISE NOTED.
- WHERE SECTION OR SUBSECTION MONUMENTS ARE ENCOUNTERED, THE ENGINEER SHALL BE NOTIFIED BEFORE SUCH MONUMENTS ARE REMOVED. THE CONTRACTOR SHALL PROTECT AND CAREFULLY PRESERVE ALL MONUMENTS UNTIL AN AUTHORIZED SURVEYOR OR AGENT HAS WITNESSED OR OTHERWISE REFERENCED THEIR LOCATION. THE CONTRACTOR SHALL BE RESPONSIBLE FOR HAVING AN AUTHORIZED SURVEYOR REESTABLISH ANY SECTION OR SUBSECTION MONUMENTS DESTROYED BY HIS OPERATIONS.
- THE THICKNESS OF HMA MIXTURES SHOWN ON THE PLANS IS THE NOMINAL THICKNESS. DEVIATIONS FROM THE NOMINAL THICKNESS WILL BE PERMITTED WHEN SUCH DEVIATIONS OCCUR DUE TO IRREGULARITIES IN THE EXISTING SURFACE OR BASE ON WHICH THE HMA MIXTURE IS PLACED.
- ANY REFERENCE TO A STANDARD IN THESE PLANS SHALL BE INTERPRETED TO MEAN THE EDITION AS INDICATED BY THE SUBNUMBER LISTED ON THE INDEX OF SHEETS OR THE COPY OF THE STANDARD INCLUDED IN THESE PLANS.
- FACTORS USED FOR ESTIMATING PLAN QUANTITIES ARE AS FOLLOWS AND SHALL NOT BE USED FOR THE BASIS OF FINAL QUANTITIES:

ALL HOT-MIX ASPHALT	2.016 TONS/CU YD
ALL AGGREGATE	2.05 TONS/CU YD
BITUMINOUS MATERIALS:	
ON PAVEMENT	0.09 GAL/SQ YD
INTERMEDIATE LIFTS (FOG COAT)	0.04 GAL/SQ YD
ON AGGREGATE SURFACE	0.32 GAL/SQ YD
AGGREGATE (PRIME COAT)	0.0015 TONS/SQ YD
- ABANDONED UNDERGROUND UTILITIES THAT CONFLICT WITH CONSTRUCTION SHALL BE DISPOSED OF OUTSIDE THE LIMITS OF THE RIGHT OF WAY ACCORDING TO ARTICLE 202.03 OF THE STANDARD SPECIFICATIONS AND AS DIRECTED BY THE ENGINEER. THIS WORK WILL NOT BE PAID FOR SEPARATELY BUT SHALL BE INCLUDED IN THE COST OF EARTH EXCAVATION.
- ALL DISTURBED AREAS WITHIN THE CONSTRUCTION LIMITS SHALL BE FERTILIZED AND SEEDED. SEEDING SHALL BE CLASS 2A ACCORDING TO THE APPLICABLE ARTICLES OF SECTION 250 OF THE STANDARD SPECIFICATIONS. SEEDING SHALL NOT BE PERMITTED AT ANY TIME WHEN THE GROUND IS FROZEN, WET, OR IN AN UNTILLABLE CONDITION. LOCATIONS TO BE SEEDING WILL BE DETERMINED BY THE ENGINEER.
- THE CONTRACTOR SHALL BE RESPONSIBLE FOR PROTECTING UTILITY PROPERTY FROM CONSTRUCTION OPERATIONS AS OUTLINED IN ARTICLE 107.31 OF THE STANDARD SPECIFICATIONS. THE JULIE NUMBER IS 800-892-0123. A MINIMUM OF 48 HOURS ADVANCE NOTICE IS REQUIRED.
- EXISTING TRAFFIC BARRIER TERMINALS TO BE REMOVED SHALL BE PAID FOR AS GUARDRAIL REMOVAL.
- ALL ELEVATIONS REFERRING TO U.S.G.S. MEAN SEA LEVEL DATUM.
- TREES SHALL BE PRESERVED THROUGHOUT THIS SECTION AS SHOWN ON THE PLANS AND AS DIRECTED BY THE ENGINEER EXCEPT AS DESCRIBED IN NOTE 19. GENERALLY, TREES OUTSIDE THE CLEAR ZONE, AND WHICH DO NOT INTERFERE WITH CONSTRUCTION, SHALL NOT BE DISTURBED.
- FOR STABILIZATION, ALL TYPE III BARRICADES SHALL REQUIRE A MINIMUM OF FOUR SANDBAGS PER BARRICADE.
- THE QUANTITY OF SHORT TERM PAVEMENT MARKING SHOWN IN THE PLANS IS BASED ON ONE APPLICATION EACH FOR THE INITIAL OPENING OF THE COMPLETED STRUCTURE TO TWO LANE TRAFFIC, THE PRIME COAT, BINDER COURSE, AND SURFACE COURSE.
- THE ADVANCE DETECTOR LOOPS ARE TYPICALLY LOCATED 275 FEET IN ADVANCE OF THE STOP BAR. THE BUREAU OF OPERATIONS SHOULD APPROVE THE LOOP LOCATIONS PRIOR TO INSTALLATION.
- THE CENTERLINE PAVEMENT MARKING SHOULD BE REMOVED FROM STOP BAR TO STOP BAR. EDGE LINE PAVEMENT MARKING SHOULD BE REMOVED IF A 10 FOOT LANE WIDTH CANNOT BE MAINTAINED. TEMPORARY EDGE LINES SHOULD BE INSTALLED WHEN THE EDGE LINES ARE REMOVED.
- ANY TIME THE CONCRETE BARRIER IS NOT IN THE PROPER POSITION, FLAGGERS SHALL BE IN PLACE TO CONTROL TRAFFIC. THE TEMPORARY TRAFFIC SIGNALS SHALL BE TURNED OR COVERED.
- ALL OBSTRUCTIONS WHICH ARE WITHIN 18' OF THE EDGE OF PAVEMENT AND ARE NOT SHIELDED BY THE PROPOSED GUARDRAIL, SHALL BE REMOVED FROM STATION 1641+00 TO 1650+50. TYPICAL OBSTRUCTIONS ARE HEADWALLS, FOUNDATIONS, ETC. WHICH PROJECT 4 IN. OR MORE ABOVE THE GROUNDLINE; AND TREES WHICH WILL MATURE TO A DIAMETER OF 4 IN. OR GREATER.

COMMITMENTS

- NONE AS OF MAY 9, 2008. REFER TO COMMITMENT FILE FOR ANY COMMITMENTS AFTER THIS DATE.

CONTRACT NO. 98999				
FAP RTE	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
869	105A/B-1	SALINE	71	2
STA.		TO STA.		
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

PREPARED BY: Joe Polaniewicz
DISTRICT STUDIES & PLANS ENGINEER

EXAMINED BY: James E. Emery
DISTRICT LAND ACQUISITION ENGINEER

EXAMINED BY: Carris Nelson
DISTRICT PROGRAM DEVELOPMENT ENGINEER

EXAMINED BY: David Summers
DISTRICT OPERATIONS ENGINEER

EXAMINED BY: Joseph L. Linn
DISTRICT CONSTRUCTION ENGINEER

EXAMINED BY: Bruce W. Doble
DISTRICT MATERIALS ENGINEER

EXAMINED BY: Jim Smothers
DISTRICT PROJECT IMPLEMENTATION ENGINEER

EXAMINED BY: Danny L. Clayton
ASSISTANT REGIONAL ENGINEER

EXAMINED BY: Mark C. Patti
DEPUTY DIRECTOR OF HIGHWAYS, REGION ENGINEER

DATE: April 25 20 08

ESCA
CONSULTANTS, INC.

DESIGNED BY:	MTD	06/07
DRAWN BY:	DWH	06/07
CHECKED BY:	MTD	10/07
APPROVED BY:	RDP	03/08

PLUT DATE = DATE
PLOT SCALE = SCALE
REFERENCE = REF#

GENERAL NOTES AND STANDARDS
FAP RTE 869 (IL 34)
SECTION 105A/B-1
SALINE COUNTY



SUMMARY OF QUANTITIES

CODE NO.	ITEM	UNIT	TOTAL	URBAN	
				CONSTRUCTION TYPE CODE	
				BRIDGE X020-2A	ROADWAY I000-2A
20200100	EARTH EXCAVATION	CU YD	1020	570	450
20400800	FURNISHED EXCAVATION	CU YD	2600	78	2522
20700400	POROUS GRANULAR EMBANKMENT, SPECIAL	CU YD	58	58	
20800150	TRENCH BACKFILL	CU YD	155	155	
25000210	SEEDING, CLASS 2A	ACRE	2.4	1.26	1.14
25000350	SEEDING, CLASS 7	ACRE	2.4	1.26	1.14
25000400	NITROGEN FERTILIZER NUTRIENT	POUND	216	114	102
25000500	PHOSPHORUS FERTILIZER NUTRIENT	POUND	216	114	102
25000600	POTASSIUM FERTILIZER NUTRIENT	POUND	216	114	102
25000700	AGRICULTURAL GROUND LIMESTONE	TON	4.8	2.5	2.3
25100115	MULCH, METHOD 2	ACRE	4.8	2.52	2.28
25100630	EROSION CONTROL BLANKET	SQ YD	80	54	26
28000250	TEMPORARY EROSION CONTROL SEEDING	POUND	720	378	342
28000300	TEMPORARY DITCH CHECKS	EACH	6	4	2
28000400	PERIMETER EROSION BARRIER	FOOT	1100	650	450
28000500	INLET AND PIPE PROTECTION	EACH	2		2
28100109	STONE RIPRAP, CLASS A5	SQ YD	2500	2500	
28200200	FILTER FABRIC	SQ YD	2500	2500	
35501332	HOT-MIX ASPHALT BASE COURSE, 12"	SQ YD	1128	930	198
40200800	AGGREGATE SURFACE COURSE, TYPE B	TON	70	70	
40600100	BITUMINOUS MATERIALS (PRIME COAT)	GALLON	400	230	170
40600300	AGGREGATE (PRIME COAT)	TON	7	3.4	3.6
40600645	LEVELING BINDER (MACHINE METHOD), N90	TON	129	68.3	60.7
40600982	HOT-MIX ASPHALT SURFACE REMOVAL - BUTT JOINT	SQ YD	87		87
40600990	TEMPORARY RAMP	SQ YD	235	220	15
40603345	HOT-MIX ASPHALT SURFACE COURSE, MIX "D", N90	TON	188	83	105
40800050	INCIDENTAL HOT-MIX ASPHALT SURFACING	TON	30	30	
42001165	BRIDGE APPROACH PAVEMENT	SQ YD	178	178	
42001300	PROTECTIVE COAT	SQ YD	390	390	

SUMMARY OF QUANTITIES

CODE NO.	ITEM	UNIT	TOTAL	URBAN		
				CONSTRUCTION TYPE CODE		
				BRIDGE X020-2A	ROADWAY I000-2A	
42001400	BRIDGE APPROACH PAVEMENT (SPECIAL)	SQ YD	188	188		
42001430	BRIDGE APPROACH PAVEMENT CONNECTOR (FLEXIBLE)	SQ YD	40	40		
44000100	PAVEMENT REMOVAL	SQ YD	300	300		
44000200	DRIVEWAY PAVEMENT REMOVAL	SQ YD	326	326		
44201723	CLASS D PATCHES, TYPE IV, 6 INCH	SQ YD	56	56		
48203021	HOT-MIX ASPHALT SHOULDERS, 6"	SQ YD	660	660		
48203029	HOT-MIX ASPHALT SHOULDERS, 8"	SQ YD	879	300	579	
50100100	REMOVAL OF EXISTING STRUCTURES	EACH	1	1		
50105220	PIPE CULVERT REMOVAL	FOOT	97	97		
50200100	STRUCTURE EXCAVATION	CU YD	275	275		
50300100	FLOOR DRAINS	EACH	6	6		
50300225	CONCRETE STRUCTURES	CU YD	192	192		
50300255	CONCRETE SUPERSTRUCTURE	CU YD	220	220		
50300260	BRIDGE DECK GROOVING	SQ YD	310	310		
50300280	CONCRETE ENCASEMENT	CU YD	14	14		
50300300	PROTECTIVE COAT	SQ YD	495	495		
50800205	REINFORCEMENT BARS, EPOXY COATED	POUND	65450	65450		
50800515	BAR SPLICERS	EACH	228	228		
51201400	FURNISHING STEEL PILES HP10X42	FOOT	882	882		
51202305	DRIVING PILES	FOOT	882	882		
51203400	TEST PILE STEEL HP10X42	EACH	4	4		
51205200	TEMPORARY SHEET PILING	SQ FT	625	625		
51500100	NAME PLATES	EACH	1	1		
542A0229	PIPE CULVERTS, CLASS A, TYPE 1 24"	FOOT	14	14		
542A1069	PIPE CULVERTS, CLASS A, TYPE 2 24"	FOOT	90	90		
54213447	END SECTIONS 12"	EACH	1	1		
54213669	PRECAST REINFORCED CONCRETE FLARED END SECTIONS 24"	EACH	4	2	2	
54213681	PRECAST REINFORCED CONCRETE FLARED END SECTIONS 36"	EACH	2	2		
54215991	REINFORCED CONCRETE PIPE ELBOW 36"	EACH	2	2		
54248510	CONCRETE COLLAR	CU YD	2.5	2.06	0.44	
550A0380	STORM SEWERS, CLASS A, TYPE 2 18"	FOOT	10	10		

*SPECIALITY ITEM

CONTRACT NO. 98999				
FAP RTE	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
869	(105A)B-1	SALINE	71	3
STA.		TO STA.		
FED. ROAD DIST. NO.		ILLINOIS FED. AID PROJECT		

PLOT DATE = 03/08
 PLOT SCALE = AS SHOWN
 REFERENCE = REF#

ESCA
CONSULTANTS, INC.

DESIGNED BY: MTD 06/07
 DRAWN BY: DWH/HAS 03/08
 CHECKED BY: MTD 03/08
 APPROVED BY: RDP 03/08

SUMMARY OF QUANTITIES
FAP RTE 869 (IL 34)
SECTION (105A)B-1
SALINE COUNTY



SUMMARY OF QUANTITIES

CODE NO.	ITEM	UNIT	TOTAL	URBAN	
				HBP FUNDING 80% FEDERAL 20% STATE	
				CONSTRUCTION TYPE CODE	
				BRIDGE X020-2A	ROADWAY 1000-2A
550A0450	STORM SEWERS, CLASS A, TYPE 2 36"	FOOT	71	71	
55101600	STORM SEWER REMOVAL 36"	FOOT	4	4	
59100100	GEOCOMPOSITE WALL DRAIN	SQ YD	62	62	
60100060	CONCRETE HEADWALL FOR PIPE DRAINS	EACH	3	3	
60100945	PIPE DRAINS 12"	FOOT	41	41	
60109580	PIPE UNDERDRAINS FOR STRUCTURES 4"	FOOT	192	192	
60218400	MANHOLES, TYPE A, 4'-DIAMETER, TYPE 1 FRAME, CLOSED LID	EACH	1	1	
60221100	MANHOLES, TYPE A, 5'-DIAMETER, TYPE 1 FRAME, CLOSED LID	EACH	1	1	
61000115	TYPE E INLET BOX, STANDARD 610001	EACH	2	2	
* 63000000	STEEL PLATE BEAM GUARD RAIL, TYPE A	FOOT	275	275	
* 63100085	TRAFFIC BARRIER TERMINAL, TYPE 6	EACH	2	2	
* 63100167	TRAFFIC BARRIER TERMINAL, TYPE 1 (SPECIAL) TANGENT	EACH	4	4	
* 63100205	TRAFFIC BARRIER TERMINAL, TYPE 5A (SPECIAL)	EACH	1	1	
* 63100215	TRAFFIC BARRIER TERMINAL, TYPE 6 (SPECIAL)	EACH	2	2	
63200310	GUARDRAIL REMOVAL	FOOT	360	360	
* 63300725	STEEL PLATE BEAM GUARDRAIL (SHORT RADIUS)	FOOT	25	25	
66201120	CONCRETE SHOULDER CURB	FOOT	22.2	22.2	
66410400	CHAIN LINK FENCE TO BE REMOVED AND RE-ERECTED	FOOT	441		441
66600105	FURNISHING AND ERECTING RIGHT-OF-WAY MARKERS	EACH	10	7	3
67000400	ENGINEER'S FIELD OFFICE, TYPE A	CAL MO	9	9	
67100100	MOBILIZATION	L SUM	1	1	
70100450	TRAFFIC CONTROL AND PROTECTION, STANDARD 701201	L SUM	1	1	
70100500	TRAFFIC CONTROL AND PROTECTION, STANDARD 701326	L SUM	1	1	
70101205	TRAFFIC CONTROL AND PROTECTION, STANDARD 701321 (SPECIAL)	EACH	1	1	
70103815	TRAFFIC CONTROL SURVEILLANCE	CAL DA	25	25	
70106500	TEMPORARY BRIDGE TRAFFIC SIGNALS	EACH	1	1	
70106700	TEMPORARY RUMBLE STRIP	EACH	6	6	
70106800	CHANGEABLE MESSAGE SIGN	CAL MO	8	8	
70300100	SHORT-TERM PAVEMENT MARKING	FOOT	544	544	
70300210	TEMPORARY PAVEMENT MARKING - LETTERS AND SYMBOLS	SQ FT	68	68	
70300220	TEMPORARY PAVEMENT MARKING - LINE 4"	FOOT	4540	2543	1997
70300260	TEMPORARY PAVEMENT MARKING - LINE 12"	FOOT	105		105
70300280	TEMPORARY PAVEMENT MARKING - LINE 24"	FOOT	45	45	

SUMMARY OF QUANTITIES

CODE NO.	ITEM	UNIT	TOTAL	URBAN	
				HBP FUNDING 80% FEDERAL 20% STATE	
				CONSTRUCTION TYPE CODE	
				BRIDGE X020-2A	ROADWAY 1000-2A
70301000	WORK ZONE PAVEMENT MARKING REMOVAL	SQ FT	2082	1311	771
70400100	TEMPORARY CONCRETE BARRIER	FOOT	412.5	412.5	
70400200	RELOCATE TEMPORARY CONCRETE BARRIER	FOOT	262.5	262.5	
* 78001100	PAINT PAVEMENT MARKING - LETTERS AND SYMBOLS	SQ FT	68	68	
* 78001110	PAINT PAVEMENT MARKING - LINE 4"	FOOT	4540	2543	1997
* 78001150	PAINT PAVEMENT MARKING - LINE 12"	FOOT	105		105
* 78001180	PAINT PAVEMENT MARKING - LINE 24"	FOOT	45	45	
78200410	GUARDRAIL MARKERS, TYPE A	EACH	21	21	
* 78200530	BARRIER WALL MARKERS, TYPE C	EACH	6	6	
* 78201000	TERMINAL MARKER - DIRECT APPLIED	EACH	4	4	
78300100	PAVEMENT MARKING REMOVAL	SQ FT	175	175	
78300200	RAISED REFLECTIVE PAVEMENT MARKER REMOVAL	EACH	11	6	5
* 80300100	LOCATING UNDERGROUND CABLE	FOOT	500	500	
* 81200120	CONDUIT EMBEDDED IN STRUCTURE, 2" DIA., GALVANIZED STEEL	FOOT	78	78	
86200300	UNINTERRUPTIBLE POWER SUPPLY, EXTENDED	EACH	1	1	
X0325326	TEMPORARY TRAFFIC CONTROL REMOVAL	L SUM	1	1	
X5020501	UNDERWATER STRUCTURE EXCAVATION PROTECTION - LOCATION 1	EACH	1	1	
X5020502	UNDERWATER STRUCTURE EXCAVATION PROTECTION - LOCATION 2	EACH	1	1	
Z0001900	ASBESTOS BEARING PAD REMOVAL	EACH	22	22	
Z0030250	IMPACT ATTENUATORS, TEMPORARY (NON-REDIRECTIVE), TEST LEVEL 3	EACH	2	2	
Z0030350	IMPACT ATTENUATORS, RELOCATE (NON-REDIRECTIVE), TEST LEVEL 3	EACH	2	2	

*SPECIALITY ITEM

CONTRACT NO. 98999				
FAP RTE	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
869	(105A)B-1	SALINE	71	4
STA.		TO STA.		
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		

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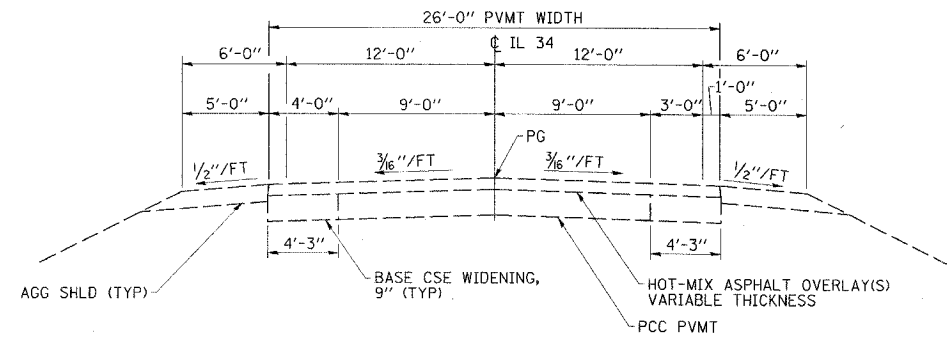
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DRAWN BY:	DWH/HAS	03/08
CHECKED BY:	MTD	03/08
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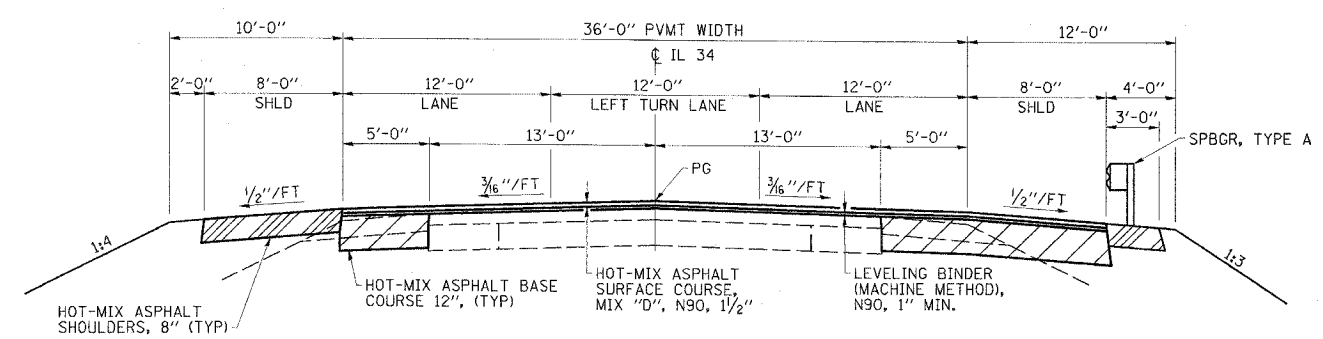
SUMMARY OF QUANTITIES
FAP RTE 869 (IL 34)
SECTION (105A)B-1
SALINE COUNTY



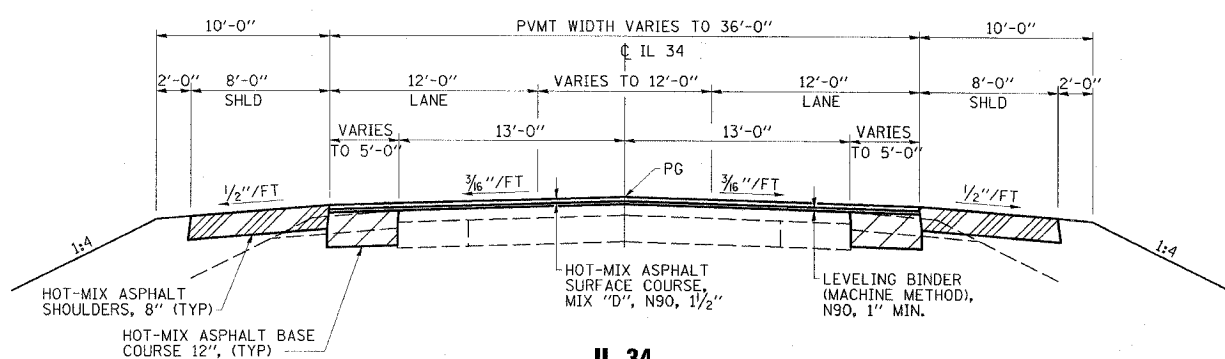
CONTRACT NO. 98999				
FAP RTE	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
869	(105A)B-1	SALINE	71	5
STA.		TO STA.		
FED. ROAD DIST. NO.		ILLINOIS	FED. AID PROJECT	



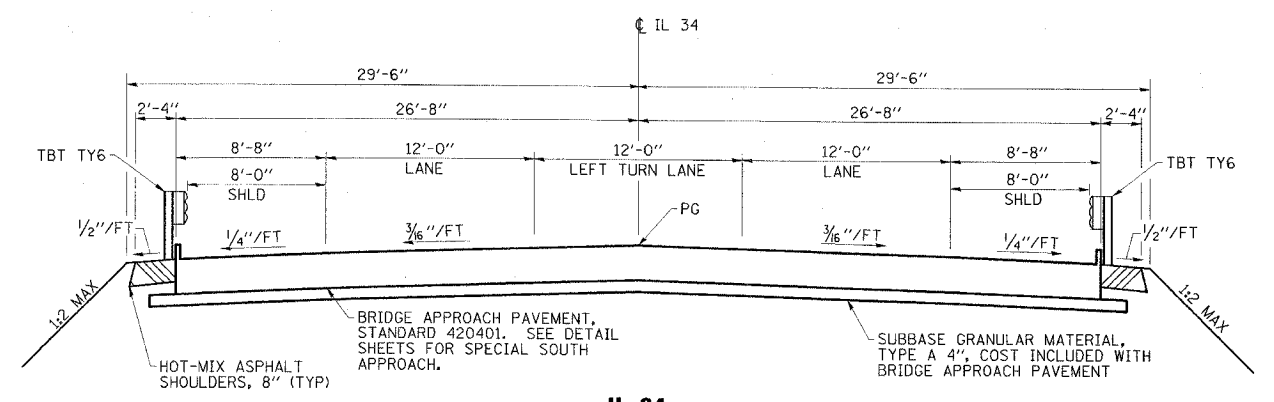
**IL 34
EXISTING TYPICAL ROADWAY SECTION**



**IL 34
PROPOSED TYPICAL ROADWAY SECTION
STA 1646+15 TO 1648+52.57**



**IL 34
PROPOSED TYPICAL ROADWAY SECTION
STA 1642+95 TO 1646+15**



**IL 34
PROPOSED BRIDGE APPROACH SECTION
STA 1648+52.57 TO 1648+82.57
STA 1649+59.93 TO 1649+89.93**

HMA MIXTURES REQUIREMENTS

LOCATIONS:	HOT MIX ASPHALT SURFACE COURSE AND LEVELING BINDER	HOT MIX ASPHALT BASE COURSE	HOT MIX ASPHALT SHOULDERS
MIXTURE USE(S):	HOT MIX ASPHALT SURFACE COURSE, MIX D, N90	HOT MIX ASPHALT BINDER COURSE, N90, IL-19.0	HOT MIX ASPHALT SHOULDERS
AC/PG:	PG64-22	PG64-22	PG58-22
RAP % (MAX): ***	10	10	50
DESIGN AIR VOIDS:	4.0%, 90 GYRATION DESIGN	4.0%, 90 GYRATION DESIGN	2.0%, 30 GYRATION DESIGN
MIXTURE COMPOSITION: (GRADATION MIXTURE)	IL-9.5 mm OR IL 12.5 mm	IL-19.0 mm	HMA SHOULDERS
FRICITION AGGREGATE:	D SURFACE	NONE	NONE

*** IF RAP OPTION IS SELECTED, THE ASPHALT CEMENT GRADE MAY NEED TO BE ADJUSTED. THIS WILL BE DETERMINED BY THE ENGINEER.

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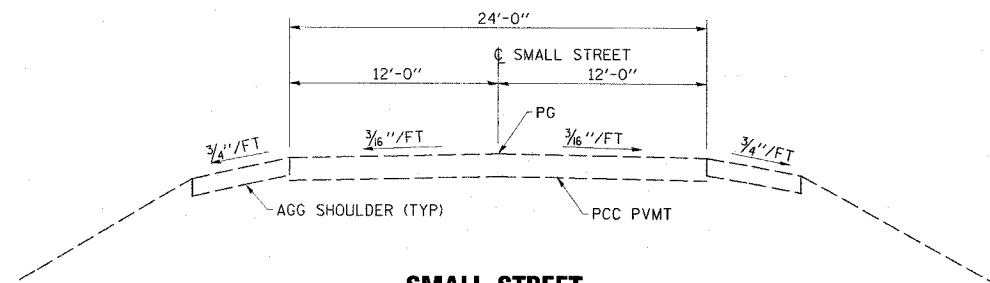
DESIGNED BY:	MTD	06/07
DRAWN BY:	DWH	06/07
CHECKED BY:	MTD	10/07
APPROVED BY:	RDP	03/08

**TYPICAL SECTIONS
FAP RTE 869 (IL 34)
SECTION (105A)B-1
SALINE COUNTY**

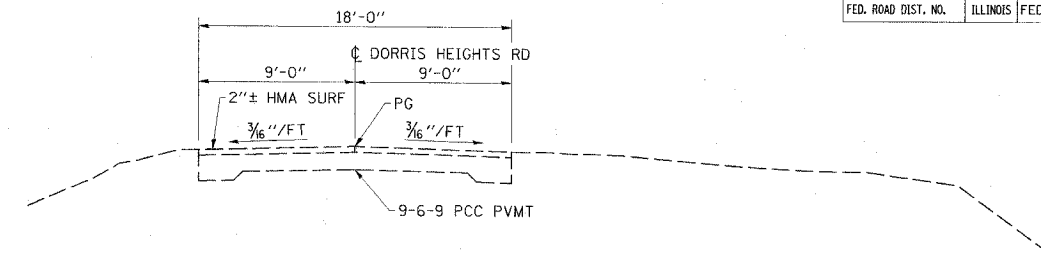
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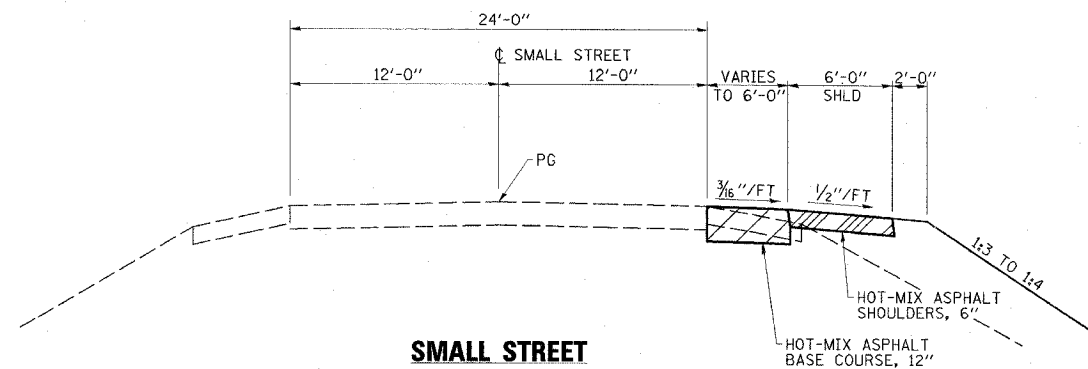
CONTRACT NO. 98999				
FAP RTE	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
869	(105A)B-1	SALINE	71	6
STA.		TO STA.		
FED. ROAD DIST. NO.		ILLINOIS FED. AID PROJECT		



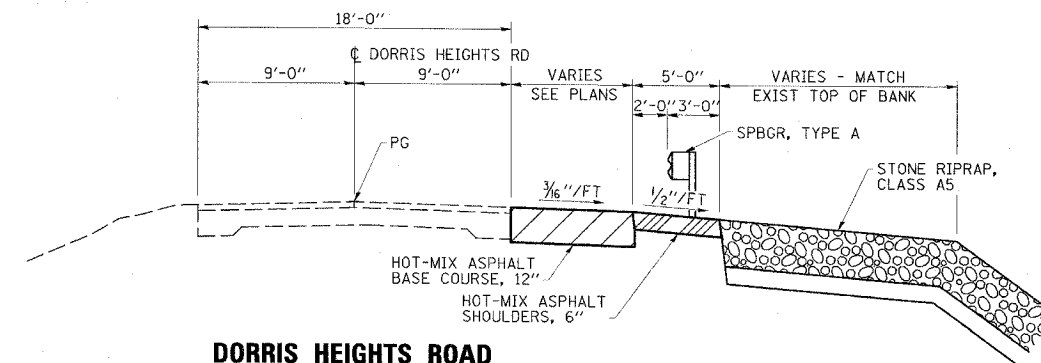
**SMALL STREET
EXISTING TYPICAL ROADWAY SECTION**



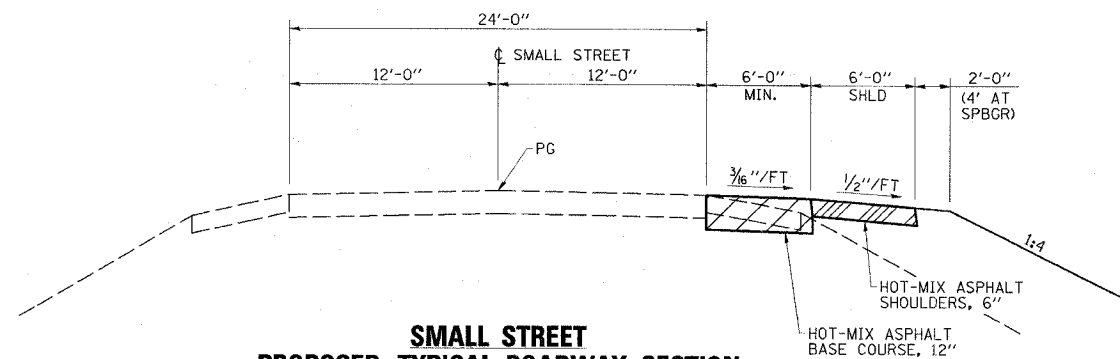
**DORRIS HEIGHTS ROAD
EXISTING TYPICAL ROADWAY SECTION**



**SMALL STREET
PROPOSED TYPICAL ROADWAY SECTION
STA 37+00 TO 40+70**



**DORRIS HEIGHTS ROAD
PROPOSED TYPICAL ROADWAY SECTION
STA 45+50 TO 46+50**



**SMALL STREET
PROPOSED TYPICAL ROADWAY SECTION
STA 40+70 TO 44+50**

PLOT DATE = *DATE*
FILE NAME = **FILE**
SCALE = *SCALE*
REFERENCE = *REF*

ESCA CONSULTANTS, INC.		
DESIGNED BY:	MTD	06/07
DRAWN BY:	DWH	06/07
CHECKED BY:	MTD	10/07
APPROVED BY:	RDP	03/08

**TYPICAL SECTIONS
FAP RTE 869 (IL 34)
SECTION (105A)B-1
SALINE COUNTY**



FAP RTE	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
869	(105A)B-1	SALINE	71	7
STA.		TO STA.		
FED. ROAD DIST. NO.		ILLINOIS FED. AID PROJECT		

PAVING SCHEDULE

LOCATION	HMA BASE COURSE, 12"	BITUMINOUS MATERIALS (PRIME COAT)	AGGREGATE (PRIME COAT)	LEVELING BINDER (MACHINE METHOD), N90	HMA SURFACE COURSE, MIX "D", N90	HMA SHOULDERS		INCIDENTAL HMA SURFACING
	SO YD	GALLON	TON	TON	TON	6"	8"	
	SO YD	TON	TON	TON	TON	SO YD	TON	
1643+90 TO 1646+49, LT	84.0	84	1.8	29.5	51.2		305.0	
1643+90 TO 1646+49, RT	114.1	86	1.8	31.2	53.8		274.0	
1646+49 TO BRIDGE APPR, LT	108.5	73	1.3	28.5	34.4		235.0	
1646+49 TO BRIDGE APPR, RT	309.2	90	1.7	39.8	48.6		65.0	
BRIDGE APPR TO 1650+24.2, LT	61.0	5				55.5		
BRIDGE APPR TO 1650+24.2, RT	41.5	4				22.5		
1646+50, CE RT		24	0.4					30
SMALL STREET - 38+00 TO 44+69.6, RT	369.7	30				523.0		
DORRIS HEIGHTS RD - 45+75 TO 46+70.9, RT	40.0	4				59.0		
TOTALS	1128.0	400	7.0	129.0	188.0	660.0	879.0	30

TRENCH BACKFILL SCHEDULE

LOCATION	CU YD
1646+50, 46' RT	70
1646+50, 67' RT	50
1649+74.8, 28.0' RT	15
1649+79.64, 33.58' LT	1
1649+91.7, 36.7' LT	18
1650+03.21, 32.74' RT	1
TOTAL	155

PAVEMENT MARKING SCHEDULE

LOCATION	DESCRIPTION	SHORT-TERM PAVEMENT MARKING ① 3 APPLICATIONS FOOT	PAINT PAVEMENT MARKING			TEMPORARY PAVEMENT MARKING					
			LETTERS & SYMBOLS	LINE			LETTERS & SYMBOLS	LINE			
				SO FT	4"	12"		24"	SO FT	4"	12"
1642+00 TO 1646+49, CENTERLINE	SKIP-DASH YELLOW	148		40				40			
1642+00 TO 1646+49, LT EDGELINE	SOLID WHITE	44		449				449			
1642+00 TO 1646+49, RT EDGELINE	SOLID WHITE	44		449				449			
1642+00 TO 1646+49, MEDIAN	SOLID YELLOW		1059	105				1059	105		
1646+49 TO 1652+10, CENTERLINE	SKIP-DASH YELLOW	228		30				30			
1646+49 TO 1652+10, LT EDGELINE	SOLID WHITE	40		386.5		19		386.5		19	
1646+49 TO 1652+10, RT EDGELINE	SOLID WHITE	40		360.5		43		360.5		43	
1646+49 TO 1652+10, LEFT TURN LANE	SKIP-DASH YELLOW			60				60			
1646+49 TO 1652+10, LEFT TURN LANE	SOLID YELLOW			623				623			
1646+49 TO 1652+10, LEFT TURN LANE	SOLID WHITE		68	143			68	143			
SMALL STREET - 36+50 TO STOP BAR, RT EDGELINE	SOLID WHITE			802		27		802		27	
DORRIS HEIGHTS RD - STOP BAR TO 46+70, RT EDGELINE	SOLID WHITE			138		18		138		18	
TOTALS		544	68	4,540	105	107	68	4,540	105	107	18

① INCLUDES 1 ADDITIONAL APPLICATION FROM STA 1644+65 TO STA 1652+10

SEEDING SCHEDULE

LOCATION	SEEDING, CLASS 2A		NITROGEN FERTILIZER NUTRIENT	PHOSPHORUS FERTILIZER NUTRIENT	POTASSIUM FERTILIZER NUTRIENT	AGRICULTURAL GROUND LIMESTONE	MULCH, METHOD 2
	ACRE	ACRE					
	ACRE	ACRE					
1642+00 TO 1646+49, LT	0.56	0.56	50	50	50	1.1	1.12
1642+00 TO 1646+49, RT	0.58	0.58	52	52	52	1.2	1.16
1646+49 TO DRAINAGE DITCH, LT	0.21	0.21	19	19	19	0.4	0.42
1646+49 TO DRAINAGE DITCH, RT	0.29	0.29	26	26	26	0.6	0.58
DRAINAGE DITCH TO SMALL STREET, LT	0.04	0.04	4	4	4	0.1	0.08
SMALL STREET - 36+50 TO 44+30.46, RT	0.63	0.63	57	57	57	1.2	1.26
TE ON COUNTY FAIRGROUNDS	0.09	0.09	8	8	8	0.2	0.18
TOTALS	2.40	2.40	216	216	216	4.8	4.80

GUARDRAIL SCHEDULE

LOCATION	STEEL PLATE BEAM GUARDRAIL		TRAFFIC BARRIER TERMINAL				GUARDRAIL MARKERS, TYPE A	BARRIER WALL MARKERS, TYPE C	TERMINAL MARKER-DIRECT APPLIED
	TA	SHORT RADIUS	T1 (SPL) TANGENT	T6	T5A (SPL)	T6 (SPL)			
	FOOT	FOOT	EACH	EACH	EACH	EACH			
NE CORNER OF BRIDGE		25	2	1			3		2
NW CORNER OF BRIDGE	100.0		1	1			6		1
SE CORNER OF BRIDGE	62.5		1			1	5		1
SW CORNER OF BRIDGE	112.5					1	7		
EAST PARAPET							3		
WEST PARAPET							3		
DORRIS HEIGHTS RD - 46+60, RT					1				
TOTALS	275.0	25	4	2	1	2	21	6	4

TEMPORARY RAMP SCHEDULE

LOCATION	SO YD
1642+95, BUTT JOINT	15
1646+50, CE RT	29
NORTH APPROACH PAVEMENT	58
SOUTH APPROACH PAVEMENT	133
TOTAL	235

EARTHWORK SCHEDULE

LOCATION	SUITABLE EARTH EXCAVATION	SUITABLE EARTH EXCAVATION ADJUSTED FOR SHRINKAGE	SUITABLE INCIDENTAL EXCAVATION MATERIAL	SUITABLE INCIDENTAL EXC. MATERIAL ADJUSTED FOR SHRINKAGE	EMBANKMENT (NOT A PAY ITEM)	EARTHWORK BALANCE WASTE (+) OR SHORTAGE (-)
	CU YD	CU YD	CU YD	CU YD	CU YD	CU YD
	1642+00 TO 1646+49, LT	25	19			1570
1642+00 TO 1646+49, RT	425	319	60	45	1335	-971
1646+49 TO DRAINAGE DITCH, LT	65	49	140	105	630	-476
1646+49 TO DRAINAGE DITCH, RT	305	229	455	340	170	+399
DRAINAGE DITCH TO SMALL STREET, LT	75	56	160	120	230	-54
DRAINAGE DITCH TO DORRIS HEIGHTS ROAD, RT	15	11	420	315	10	+316
SMALL STREET - 36+50 TO 44+50, RT	75	56			340	-284
DORRIS HEIGHTS ROAD - 45+50 TO 46+71, RT	35	26			5	+21
TOTALS	1020	765	1235	925	4290	-2600

NOTES:

1. EXCAVATION USED AS EMBANKMENT = (SUITABLE EARTH EXCAVATION + SUITABLE INCIDENTAL EXCAVATION)*0.75

EROSION CONTROL SCHEDULE

LOCATION	EROSION CONTROL BLANKET	PERIMETER EROSION BARRIER	TEMPORARY EROSION CONTROL SEEDING (3 APPLICATIONS)	INLET & PIPE PROTECTION	TEMPORARY DITCH CHECKS
	SO YD	FOOT	POUND	EACH	EACH
	1642+00 TO 1646+49, LT		450	168	
1642+00 TO 1646+49, RT			174		
1646+49 TO DRAINAGE DITCH, LT		225	63		
1646+49 TO DRAINAGE DITCH, RT			87		
DRAINAGE DITCH TO SMALL STREET, LT			12		
1644+00, RT					1
1645+50, RT					1
1646+05.0, 67.0' RT	13			1	
1646+06.9, 62.3' LT	13			1	
1646+95.0, 67.0' RT	13				
1647+00.0, 57.7' RT	13				
1647+50, RT					1
1648+50, RT					1
SMALL STREET - 36+50 TO 44+30, RT		425	189		
SMALL STREET - 38+27.5, 30.0' RT	28				
SMALL STREET - 39+00, RT					1
SMALL STREET - 40+50, RT					1
TE ON COUNTY FAIRGROUNDS			27		
TOTALS	80	1100	720	2	6

AGGREGATE SURFACE COURSE, TYPE B SCHEDULE

LOCATION	TON
1647+94, FE LT	20
SMALL STREET - 42+06.5, CE RT	50
TOTAL	70

LOCATING UNDERGROUND CABLE SCHEDULE

LOCATION	FOOT
1645+00 TO 1649+00, RT	400
1649+50 TO HANDHOLE, RT	100
TOTAL	500

SCHEDULE OF QUANTITIES
FAP RTE 869 (IL 34)
SECTION (105A)B-1
SALINE COUNTY

ESCA CONSULTANTS, INC.

DESIGNED BY: MTD 03/08
 DRAWN BY: DWH 03/08
 CHECKED BY: MTD 03/08
 APPROVED BY: RDP 03/08

PLOT DATE = 03/08
 FILE NAME = 03/08
 PLOT SCALE = 1"=40'
 REFERENCE = SHEET 7



FAP RTE	SECTION	COUNTY	TOTAL SHEETS	NO.
869	(105A)B-1	SALINE	71	8
STA.		TO STA.		
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		

DRAINAGE SCHEDULE

LOCATION	PIPE CULV. CL. A.		STORM SEWERS CL. A. TYPE 2		PIPE DRAINS 12"	END SECTIONS 12"	PRC FLARED END SECTIONS		REINFORCED CONCRETE PIPE ELBOW 36"	MANHOLES, TYPE A		TYPE E INLET BOX STD 610001	CONC SHLD CURB	PROTECTIVE COAT	CONC COLLAR	PIPE UNDERDRAINS FOR STRUCTURES 4"	CONCRETE HEADWALL FOR PIPE DRAINS		
	TYPE 1 24"	TYPE 2 24"	18"	36"			EACH	EACH		EACH	EACH							EACH	EACH
	FOOT	FOOT	FOOT	FOOT															
1646+05.0, 67.0' RT							1												
1646+06.9, 62.3' LT	10						1												
1646+13.0, 54.4' LT															0.44				
1646+50.0, 67.0' RT		90					1												
1646+95.0, 67.0' RT															0.44				
1646+98.2, 55.3' RT																			
1647+00.0, 57.7' RT	4						1												
1648+58.7, 39.0' LT																	1		
BEHIND NORTH ABUTMENT																89			
1649+00.8, 39.0' RT																	1		
1649+25.5, 45.0' LT								1											
1649+41.8, 39.0' LT																	1		
BEHIND SOUTH ABUTMENT																103			
1649+61.2, 34.0' RT				11				1											
1649+74.8, 28.0' RT									1						0.66				
1649+77.0, 45.0' LT			10	49	9					1									
1649+79.64, 33.58' LT											1	12.2	9.5						
1649+79.8, 59.0' RT							1												
1649+85.1, 54.5' LT															0.30				
1649+91.3, 52.8' RT					32					1									
1649+91.7, 36.7' LT				11						1				0.66					
1650+03.21, 32.74' RT											1	10.0	9.5						
TOTALS	14	90	10	71	41	1	4	2	2	1	1	2	22.2	19.0	2.50	192	3		

PAVEMENT MARKER REMOVAL SCHEDULE

LOCATION	RRPM REMOVAL
	EACH
STA 1643+20	1
STA 1644+00	1
STA 1644+82	1
STA 1645+61	1
STA 1646+41	1
STA 1647+21	1
STA 1648+01	1
STA 1648+81	1
STA 1649+62	1
STA 1650+42	1
STA 1651+25	1
TOTAL	11

CHAIN LINK FENCE SCHEDULE

LOCATION	TO BE REMOVED AND RE-ERECTED
	FOOT
1642+00, 57' RT TO 75' RT	18
1642+00 TO 1644+50, 75' RT	250
1644+50, 75' RT TO 85' RT	10
1644+50 TO 1646+12.5, 85' RT	163
TOTAL	441

WORK ZONE AND PAVEMENT MARKING REMOVAL SCHEDULE

LOCATION	PAVEMENT MARKING DESCRIPTION	WORK ZONE PAVEMENT MARKING REMOVAL	PAVEMENT MARKING REMOVAL
		SQ FT	SQ FT
1644+65 TO 1652+10, C	EX SKIP-DASH		65
1646+25 TO 1648+54, RT	EX EDGELINE		35
1650+03 TO 1651+04, LT	EX EDGELINE		75
VARIOUS	SHORT-TERM	181.5	
VARIOUS	TEMPORARY	1513.5	
TOTALS		2,082.0	175

PIPE REMOVAL SCHEDULE

LOCATION	CLASS D PATCHES, TYPE IV, 6 INCH	STORM SEWER REMOVAL 36"	PIPE CULVERT REMOVAL
	SQ YD	FOOT	FOOT
1646+50, CE RT	56		84
1649+74.8, 28.0' RT		4	
1649+80.8, 49.7' LT			5
1649+91.7, 36.7' LT			8
TOTALS	56	4	97

GUARDRAIL REMOVAL SCHEDULE

LOCATION	FOOT
STRUCTURE NO. 083-0041 - NE	105
STRUCTURE NO. 083-0041 - NW	102
STRUCTURE NO. 083-0041 - SE	65
STRUCTURE NO. 083-0041 - SW	88
TOTAL	360

FURNISHING AND ERECTING RIGHT-OF-WAY MARKERS SCHEDULE

LOCATION	EACH
1642+00.00, 40.45' RT	1
1642+00.00, 75.00' RT	1
1642+00.00, 39.55' LT	1
1642+00.00, 75.00' LT	1
1644+50.00, 75.00' RT	1
1644+50.00, 85.00' RT	1
1649+15.00, 75.00' LT	1
1649+15.00, 56.00' LT	1
1649+73.00, 56.00' LT	1
1649+93.66, 80.64' LT	1
TOTAL	10

PAVEMENT REMOVAL SCHEDULE

LOCATION	PAVEMENT REMOVAL	DRIVEWAY PAVEMENT REMOVAL
	SQ YD	SQ YD
NORTH BRIDGE APPROACH	147	
SOUTH BRIDGE APPROAH	137	
1646+50, CE RT		107
SMALL STREET - 42+06.5, CE RT		126
SMALL STREET - 44+40, CE RT		93
DORRIS HEIGHTS ROAD - 45+60 TO 46+16, RT	16	
TOTALS	300	326

BRIDGE APPROACH PAVEMENT SCHEDULE

LOCATION	BRIDGE APPROACH PAVEMENT			PROTECTIVE COAT
	STD	(SPECIAL)	CONNECTOR (FLEXIBLE)	
	SQ YD	SQ YD	SQ YD	
NORTH APPROACH	178	18	181	
SOUTH APPROACH		188	22	190
TOTALS	178	188	40	371

HMA SURF REMOVAL SCHEDULE

LOCATION	BUTT JOINT
	SQ YD
1642+95	87
TOTAL	87

SCHEDULE OF QUANTITIES
 FAP RTE 869 (IL 34)
 SECTION (105A)B-1
 SALINE COUNTY



DESIGNED BY: MTD 03/08
 DRAWN BY: DWH/HAS 03/08
 CHECKED BY: MTD 03/08
 APPROVED BY: RDP 03/08

PLOT DATE = #DAYS
 FILE NAME = #FILE#
 PLOT SCALE = #SCALE#
 REFERENCE = #REF#



DATE	
BY	
PROJECT	
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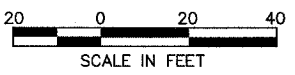
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CONTRACT NO. 98999

FAP RTE	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
869	(105A)B-1	SALINE	71	9
STA. 1640+00		TO STA. 1646+00		
FED. ROAD DIST. NO.		ILLINOIS FED. AID PROJECT		

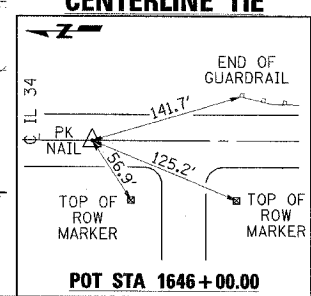
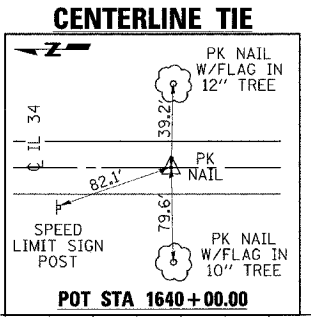
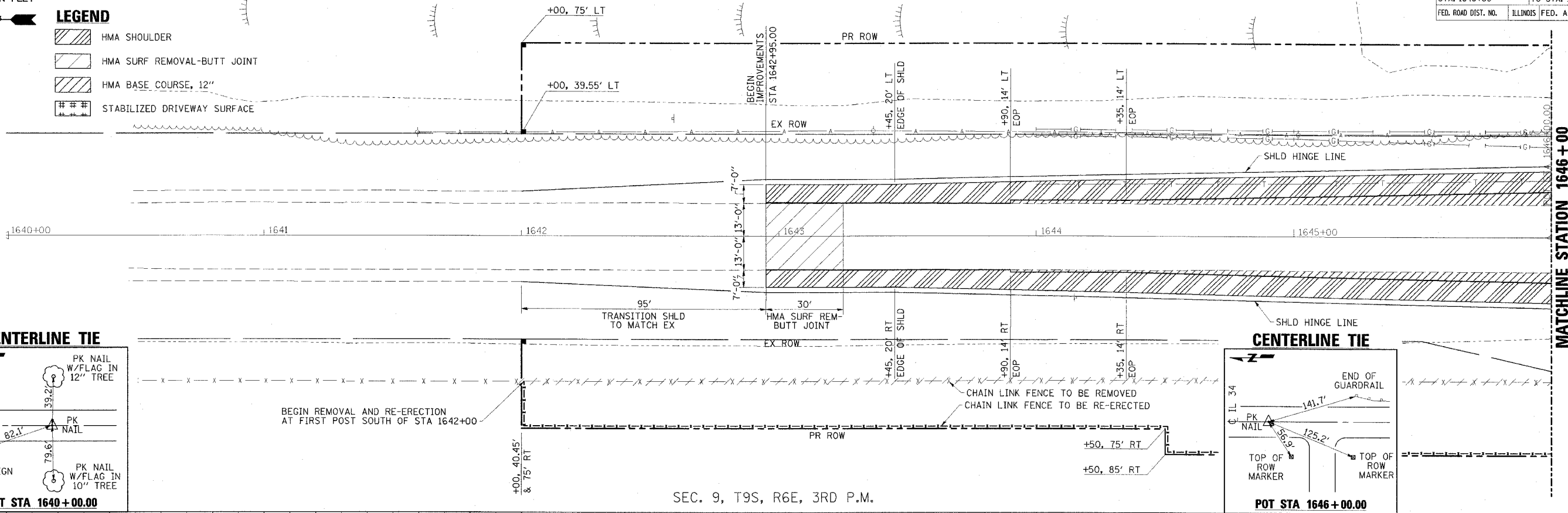
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SEC. 9, T9S, R6E, 3RD P.M.

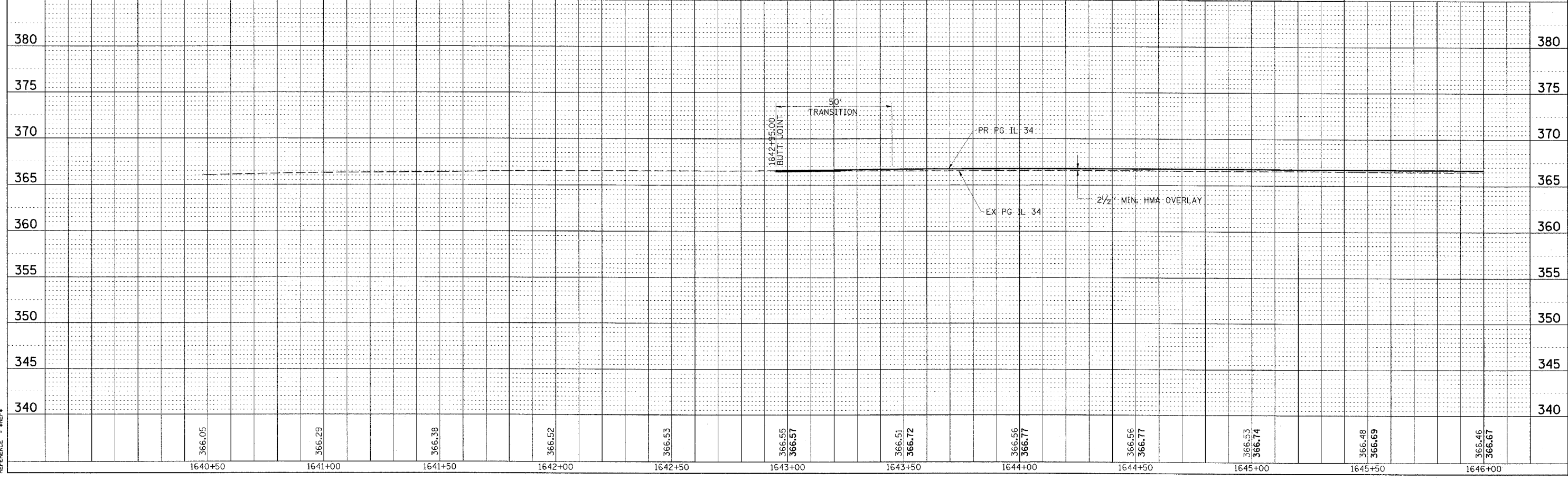


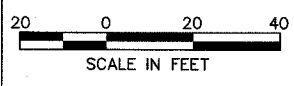
SCALE IN FEET

- LEGEND**
- HMA SHOULDER
 - HMA SURF REMOVAL-BUTT JOINT
 - HMA BASE COURSE, 12"
 - STABILIZED DRIVEWAY SURFACE



MATCHLINE STATION 1646+00
SEE SHT. 10 FOR CONT.





SEC. 10, T9S, R6E, 3RD P.M.

SN 083-0041 STA 1649+25.00
SINGLE SPAN PPC DECK BEAM
53'-5 3/4" BK TO BK CLOSED ABUTMENTS

MATCHLINE STATION 44+00

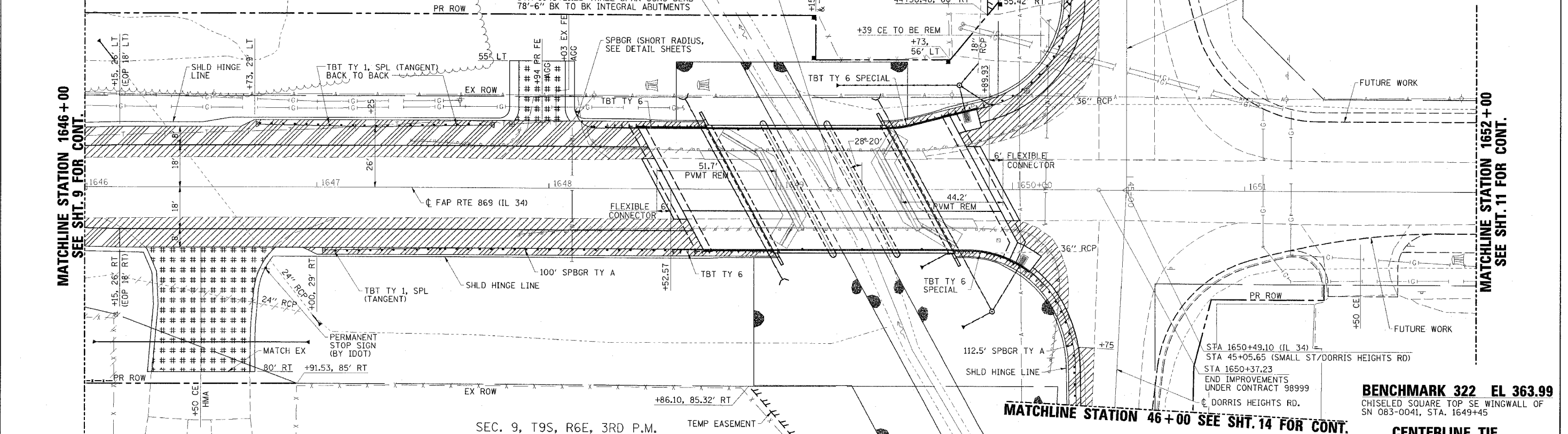
SEE SHT. 13 FOR CONT.

FAP RTE	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
869	105A/B-1	SALINE	71	10
STA. 1646+00		TO STA. 1652+00		
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		

DATE	BY
DATE	BY

DATE	BY
DATE	BY

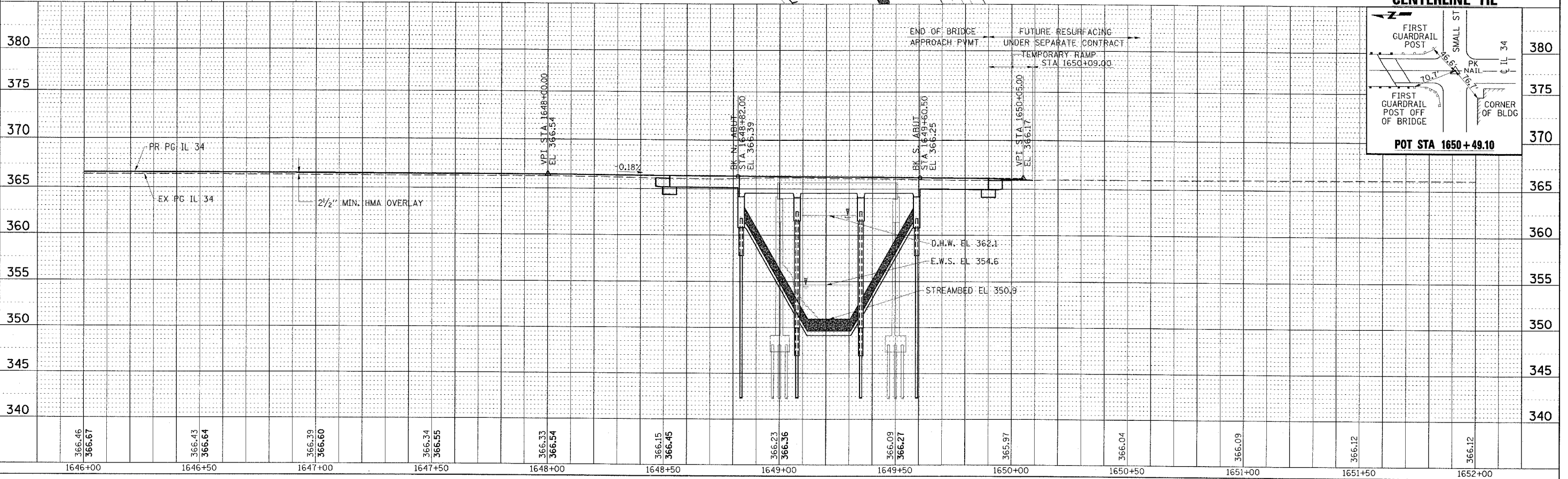
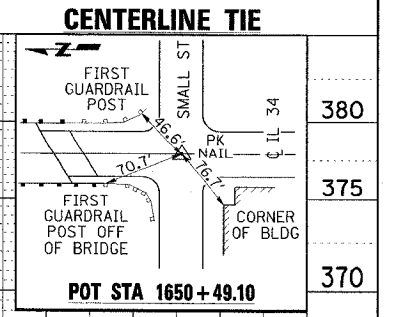
PLOT DATE: 8/24/21
 PLOT SCALE: 1"=40'
 PLOT REFERENCE: 366.67



SEC. 9, T9S, R6E, 3RD P.M.

MATCHLINE STATION 46+00 SEE SHT. 14 FOR CONT.

BENCHMARK 322 EL 363.99
 CHISELED SQUARE TOP SE WINGWALL OF
 SN 083-0041, STA. 1649+45





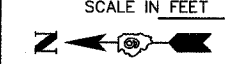
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BY	
PLANNED	
NOTED	
NOTES CHECKED	
ALIGNMENT CHECKED	
NO.	
CAD FILE NAME	

DATE	
BY	
PROFILE	
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NOTES CHECKED	
STRUCTURE NOTATION CHECKED	
NO.	

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 REFERENCE = #REF#

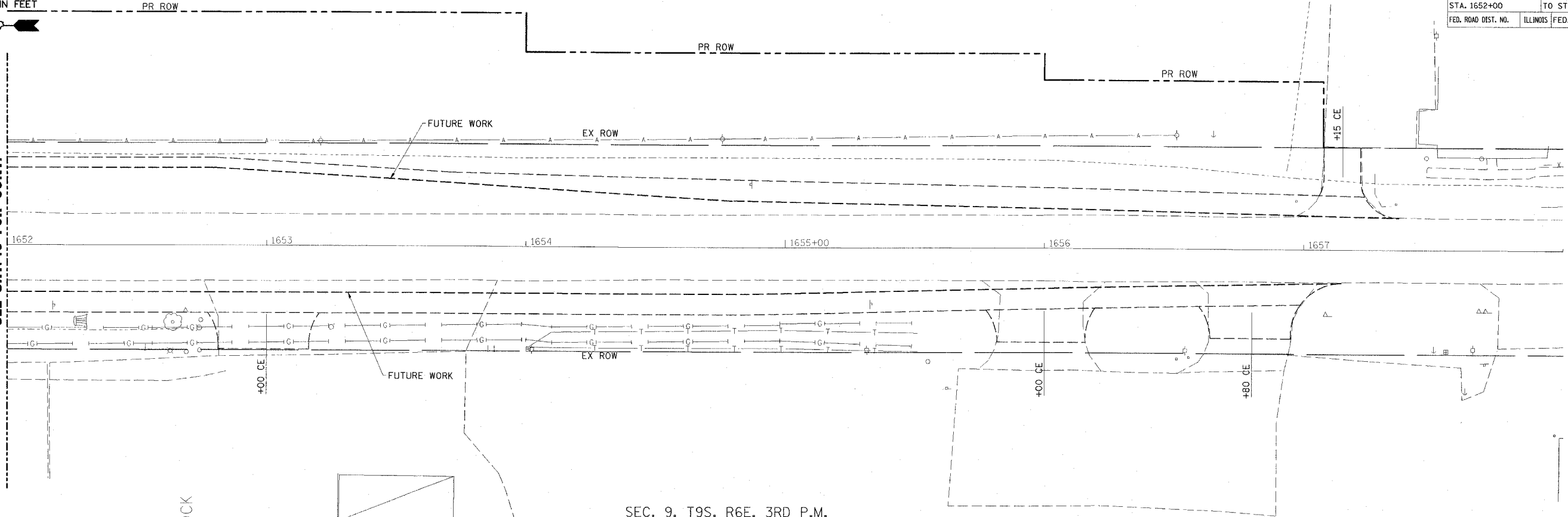
CONTRACT NO. 98999

FAP RTE	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
869	(105A)B-1	SALINE	71	11
STA. 1652+00		TO STA. 1658+00		
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		

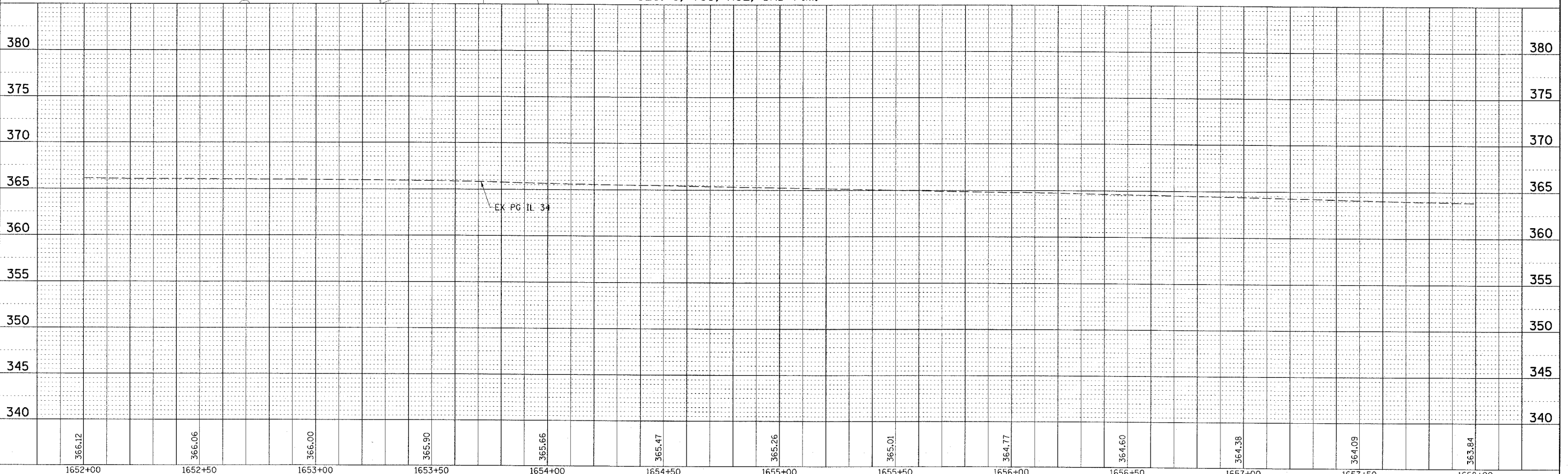


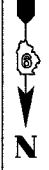
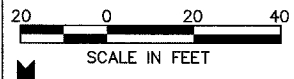
SEC. 10, T9S, R6E, 3RD P.M.

MATCHLINE STATION 1652+00
 SEE SHT. 10 FOR CONT.



SEC. 9, T9S, R6E, 3RD P.M.





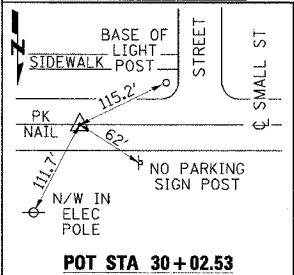
SEC. 10, T9S, R6E, 3RD P.M.

CONTRACT NO. 98999			
FAP RTE	SECTION	COUNTY	TOTAL SHEETS
869	(105)B-1	SALINE	71
STA. 35+00		TO STA. 40+00	
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT	

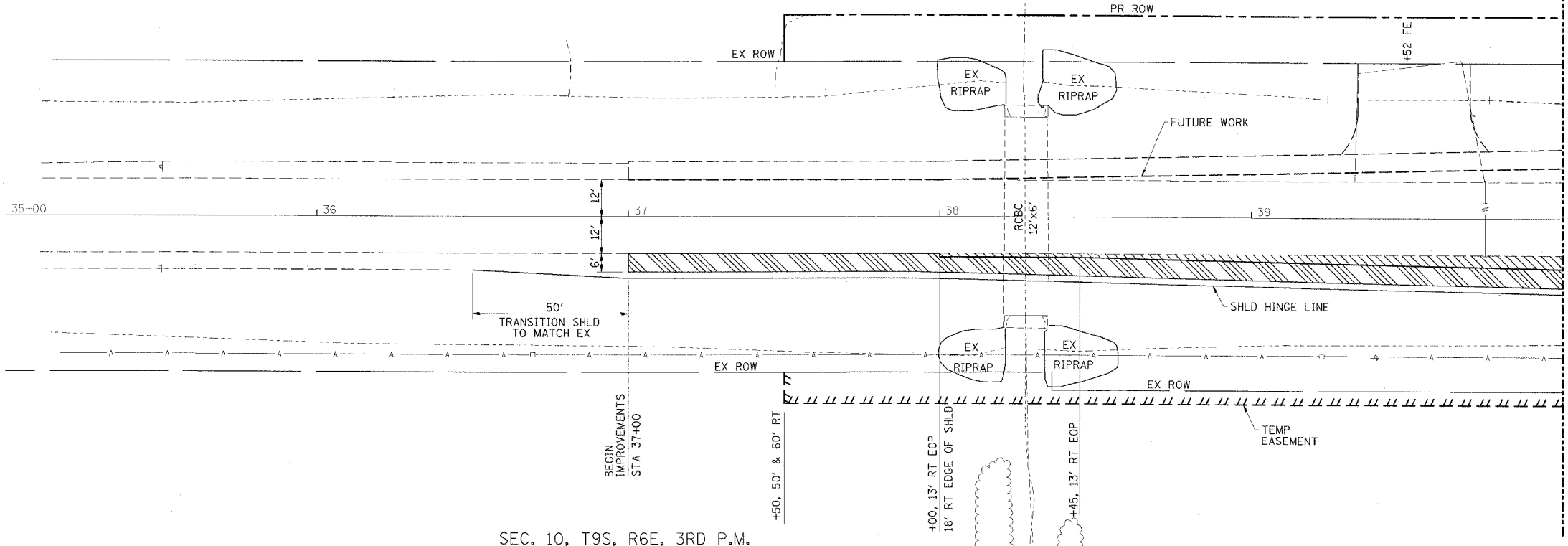
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SURVEYED	
GRADES CHECKED	
ALIGNMENT CHECKED	
FIELD FILE NAME	

PROFILE	DATE
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SURVEYED	
GRADES CHECKED	
ALIGNMENT CHECKED	
FIELD FILE NAME	

CENTERLINE TIE

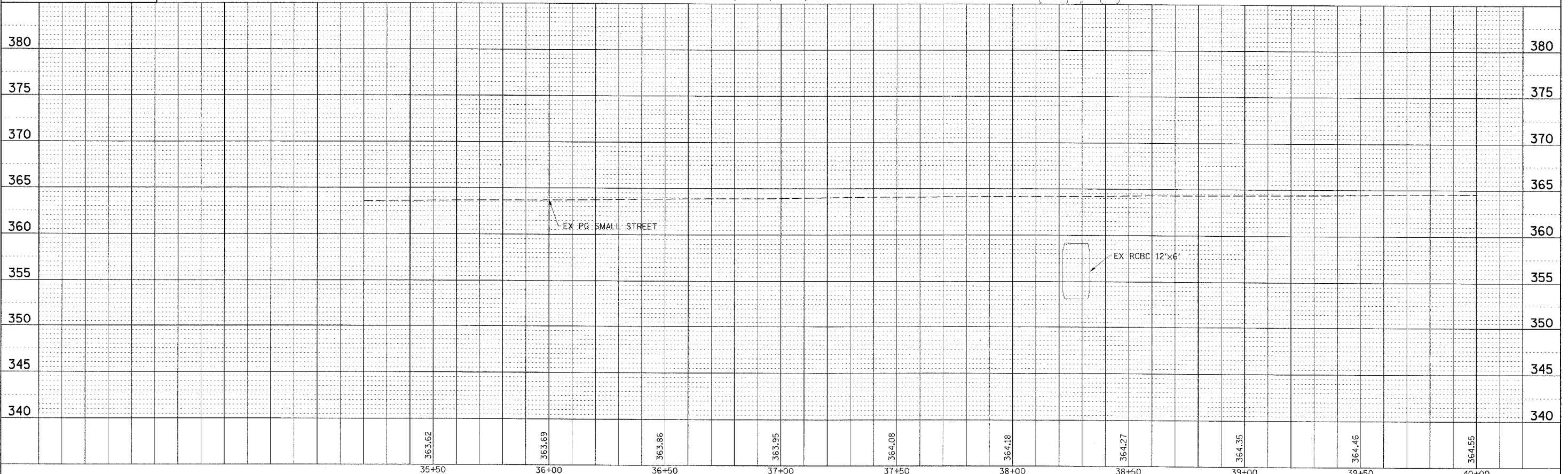


POT STA 30+02.53



MATCHLINE STATION 40+00
SEE SHT. 13 FOR CONT.

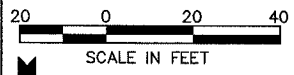
SEC. 10, T9S, R6E, 3RD P.M.



SMALL STREET PLAN & PROFILE

STA 35+00 TO STA 40+00

PLOT DATE * DATE *
FILE NAME * FILE *
REFERENCE * REF *



PLAN	REVISED	DATE
NOTE BOOK	ALIGNED	CHECKED
NO.	DATE	FILE NAME

PROFILE	REVISED	DATE
NOTE BOOK	GRADES CHECKED	
NO.	STRUCTURE NOTATION	CHFD

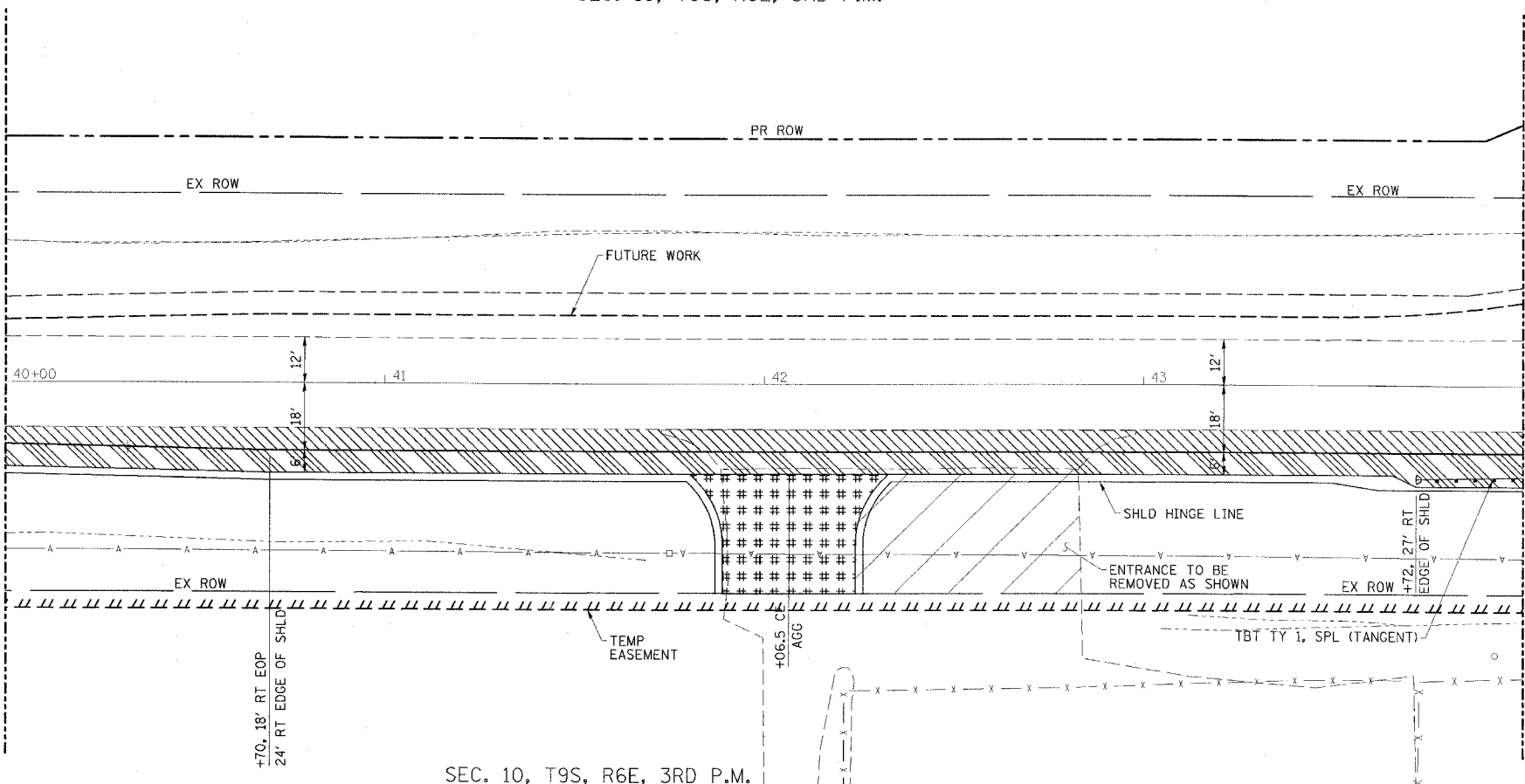
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SEC. 10, T9S, R6E, 3RD P.M.

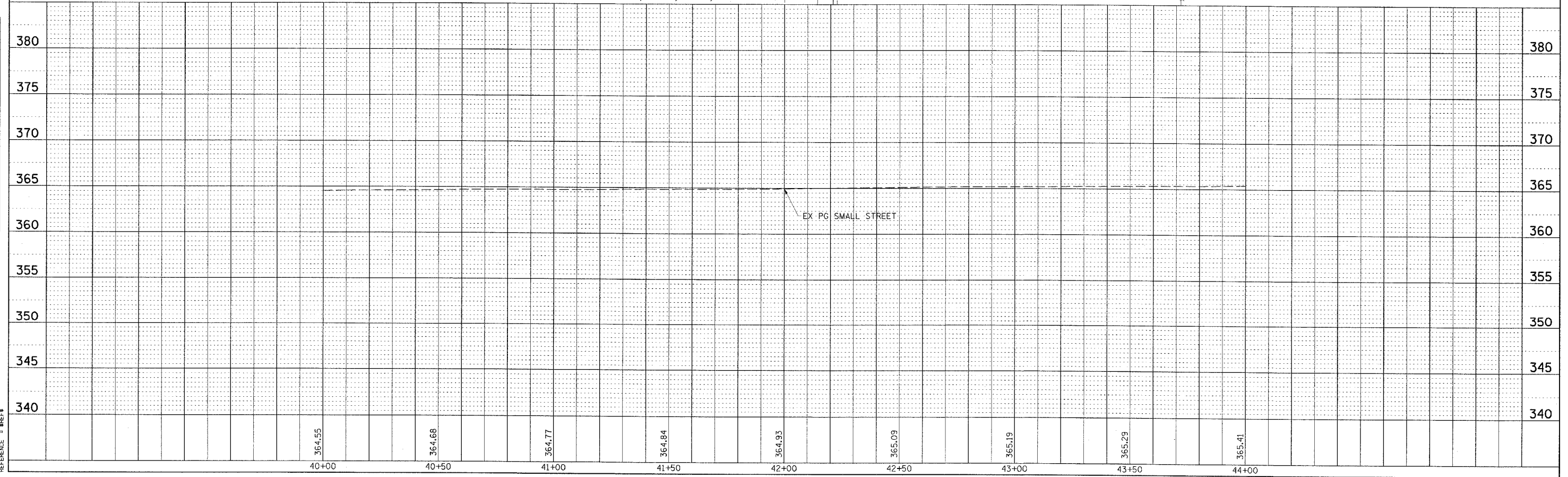
CONTRACT NO. 98999			
FAP RTE	SECTION	COUNTY	TOTAL SHEET NO.
869	105A18-1	SALINE	71 13
STA. 40+00		TO STA. 44+00	
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT	

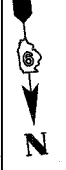
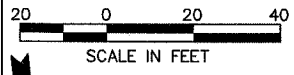
MATCH LINE STATION 40+00
SEE SHT. 12 FOR CONT.

MATCH LINE STATION 44+00
SEE SHT. 10 FOR CONT.



SEC. 10, T9S, R6E, 3RD P.M.

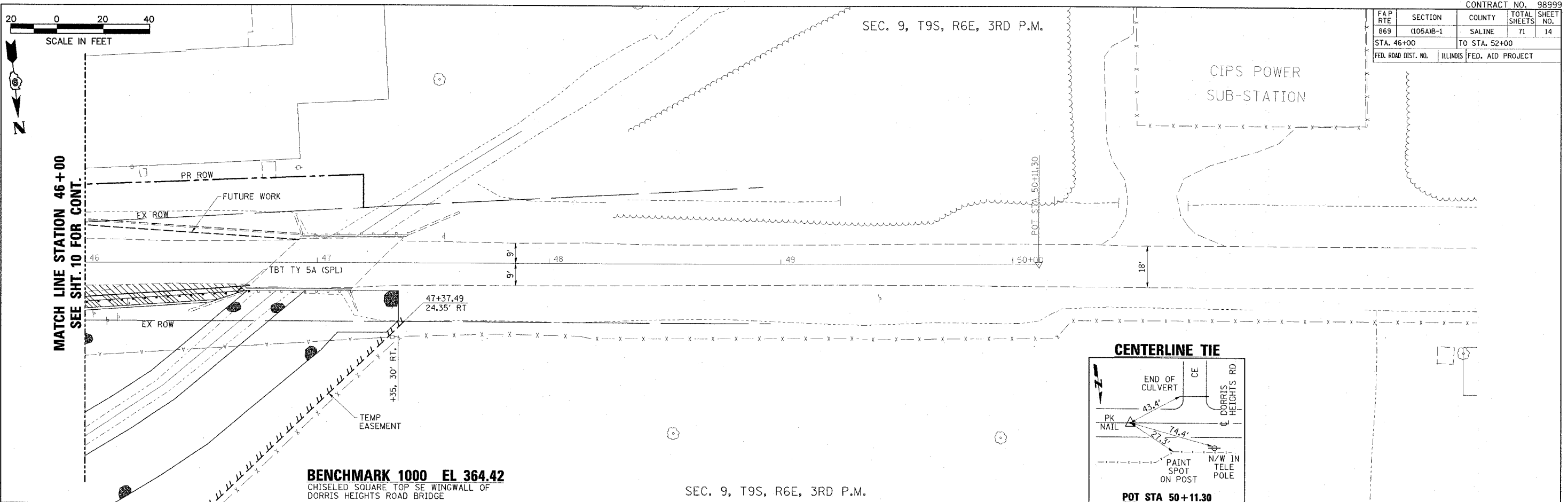




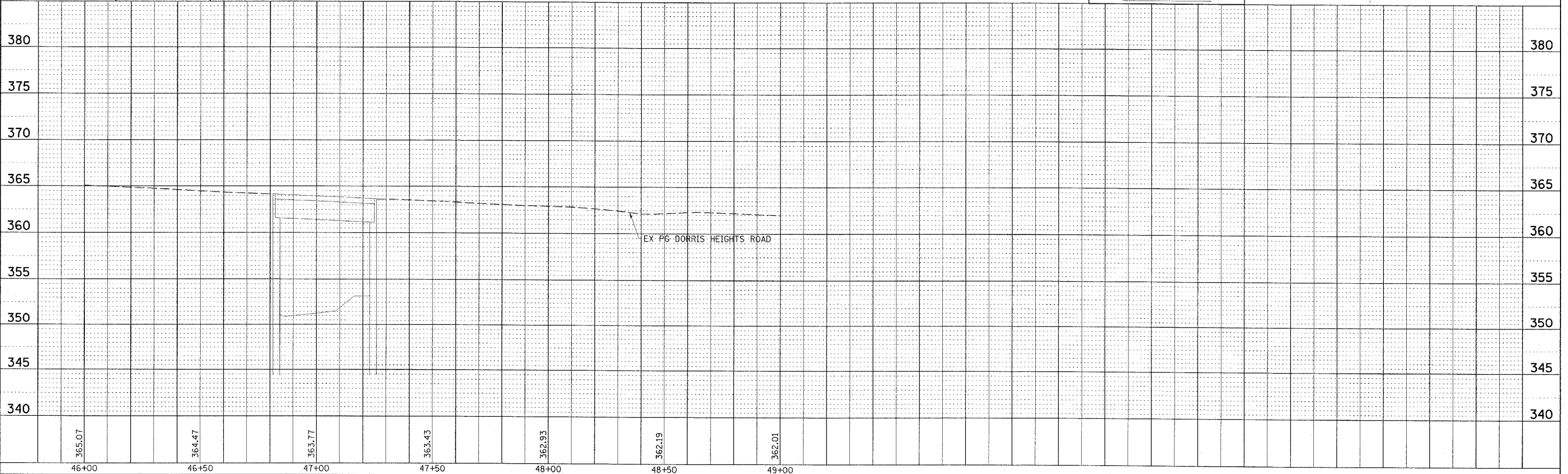
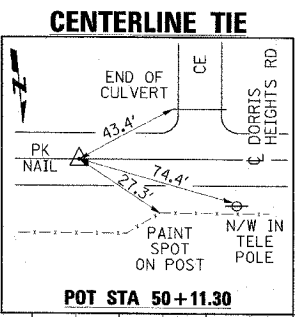
PLAN	DATE
BY	
REVISIONS	
NO.	
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BY	
DESCRIPTION	
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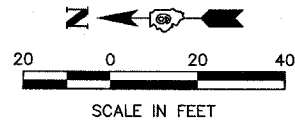
PROFILE	DATE
BY	
REVISIONS	
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DATE	
BY	
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PLOT DATE = 04/27/08
 FILE NAME = DORRIS
 PLOT SCALE = 1"=40'
 REFERENCE = 08/08



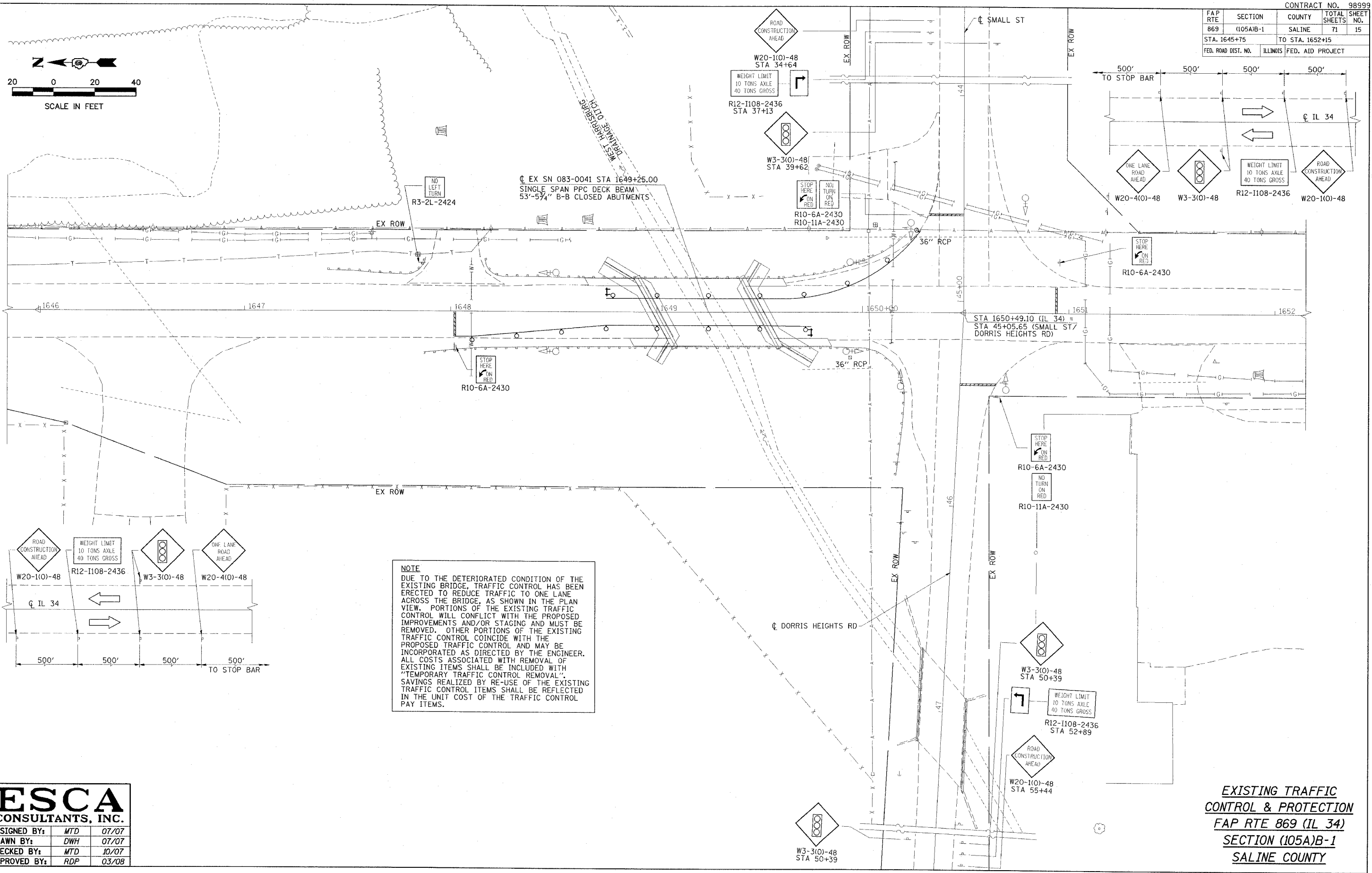
CONTRACT NO. 98999				
FAP RTE	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
869	105A/B-1	SALINE	71	14
STA. 46+00		TO STA. 52+00		
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		





CONTRACT NO. 98999

FAP RTE	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
869	(105A)B-1	SALINE	71	15
STA. 1645+75		TO STA. 1652+15		
FED. ROAD DIST. NO.		ILLINOIS FED. AID PROJECT		



NOTE
 DUE TO THE DETERIORATED CONDITION OF THE EXISTING BRIDGE, TRAFFIC CONTROL HAS BEEN ERECTED TO REDUCE TRAFFIC TO ONE LANE ACROSS THE BRIDGE, AS SHOWN IN THE PLAN VIEW. PORTIONS OF THE EXISTING TRAFFIC CONTROL WILL CONFLICT WITH THE PROPOSED IMPROVEMENTS AND/OR STAGING AND MUST BE REMOVED. OTHER PORTIONS OF THE EXISTING TRAFFIC CONTROL COINCIDE WITH THE PROPOSED TRAFFIC CONTROL AND MAY BE INCORPORATED AS DIRECTED BY THE ENGINEER. ALL COSTS ASSOCIATED WITH REMOVAL OF EXISTING ITEMS SHALL BE INCLUDED WITH "TEMPORARY TRAFFIC CONTROL REMOVAL". SAVINGS REALIZED BY RE-USE OF THE EXISTING TRAFFIC CONTROL ITEMS SHALL BE REFLECTED IN THE UNIT COST OF THE TRAFFIC CONTROL PAY ITEMS.

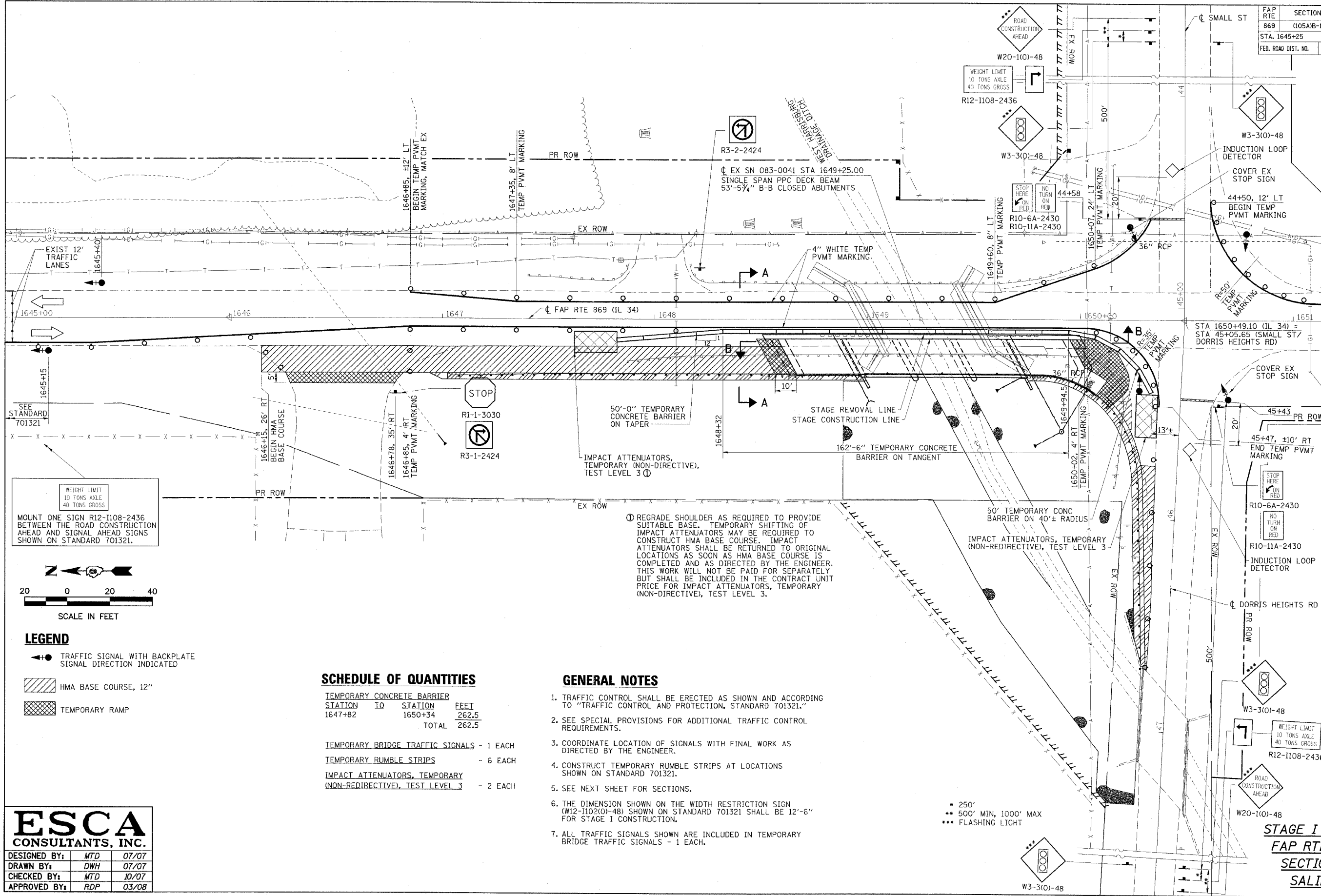
ESCA
 CONSULTANTS, INC.

DESIGNED BY:	MTD	07/07
DRAWN BY:	DWH	07/07
CHECKED BY:	MTD	10/07
APPROVED BY:	RDP	03/08

EXISTING TRAFFIC CONTROL & PROTECTION
 FAP RTE 869 (IL 34)
 SECTION (105A)B-1
 SALINE COUNTY



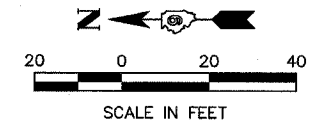
FAP RTE 869	SECTION (105A)B-1	COUNTY SALINE	TOTAL SHEETS 71	SHEET NO. 16
STA. 1645+25		TO STA. 1651+15		
FED. ROAD DIST. NO.		ILLINOIS	FED. AID PROJECT	



MATCHLINE STATION 1651+15
SEE SHT. 17 FOR CONTINUATION

WEIGHT LIMIT
10 TONS AXLE
40 TONS GROSS

MOUNT ONE SIGN R12-1108-2436 BETWEEN THE ROAD CONSTRUCTION AHEAD AND SIGNAL AHEAD SIGNS SHOWN ON STANDARD 701321.



- LEGEND**
- TRAFFIC SIGNAL WITH BACKPLATE SIGNAL DIRECTION INDICATED
 - ▨ HMA BASE COURSE, 12"
 - ▩ TEMPORARY RAMP

SCHEDULE OF QUANTITIES

TEMPORARY CONCRETE BARRIER	STATION TO	STATION	FEET
	1647+82	1650+34	262.5
			TOTAL 262.5

- TEMPORARY BRIDGE TRAFFIC SIGNALS - 1 EACH
- TEMPORARY RUMBLE STRIPS - 6 EACH
- IMPACT ATTENUATORS, TEMPORARY (NON-REDIRECTIVE), TEST LEVEL 3 - 2 EACH

GENERAL NOTES

- TRAFFIC CONTROL SHALL BE ERECTED AS SHOWN AND ACCORDING TO "TRAFFIC CONTROL AND PROTECTION, STANDARD 701321."
- SEE SPECIAL PROVISIONS FOR ADDITIONAL TRAFFIC CONTROL REQUIREMENTS.
- COORDINATE LOCATION OF SIGNALS WITH FINAL WORK AS DIRECTED BY THE ENGINEER.
- CONSTRUCT TEMPORARY RUMBLE STRIPS AT LOCATIONS SHOWN ON STANDARD 701321.
- SEE NEXT SHEET FOR SECTIONS.
- THE DIMENSION SHOWN ON THE WIDTH RESTRICTION SIGN (W12-1102(0)-48) SHOWN ON STANDARD 701321 SHALL BE 12'-6" FOR STAGE I CONSTRUCTION.
- ALL TRAFFIC SIGNALS SHOWN ARE INCLUDED IN TEMPORARY BRIDGE TRAFFIC SIGNALS - 1 EACH.

ESCA
CONSULTANTS, INC.

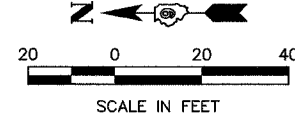
DESIGNED BY:	MTD	07/07
DRAWN BY:	DWH	07/07
CHECKED BY:	MTD	10/07
APPROVED BY:	RDP	03/08

STAGE I CONSTRUCTION
FAP RTE 869 (IL 34)
SECTION (105A)B-1
SALINE COUNTY

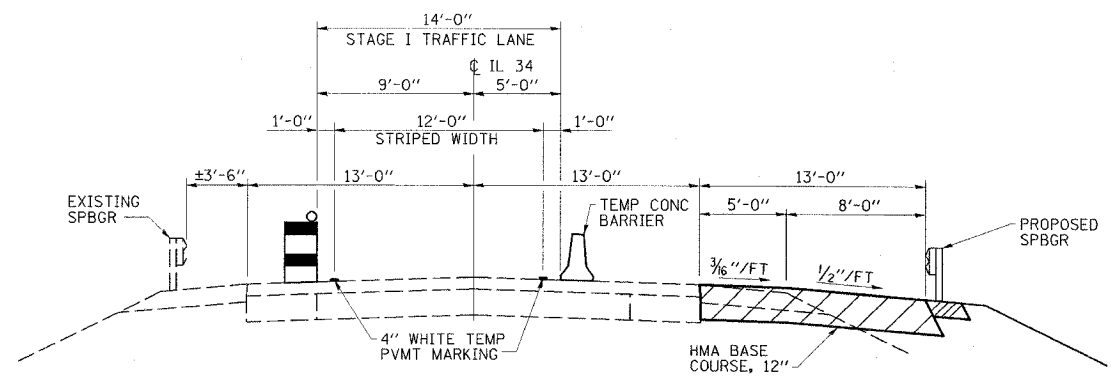
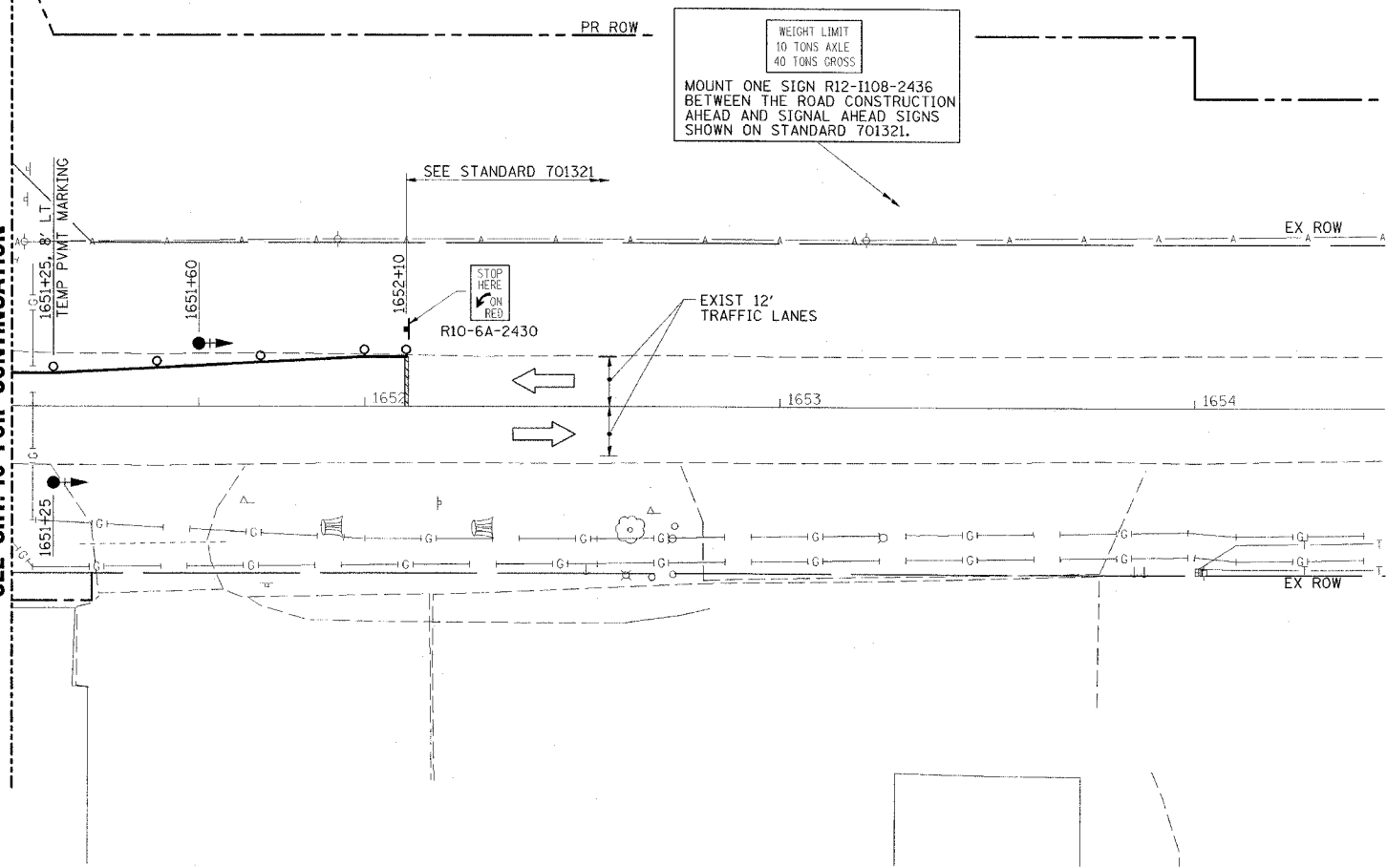


CONTRACT NO. 98999

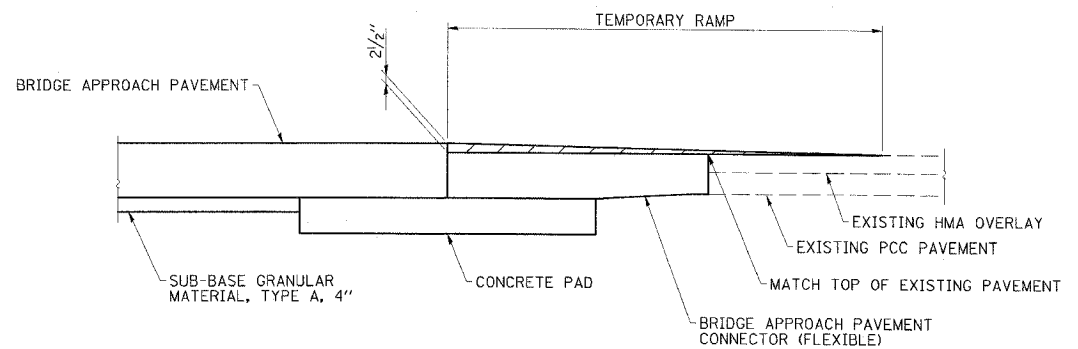
FAP RTE	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
869	(105A)B-1	SALINE	71	17
STA. 1651+15		TO STA. 1652+10		
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		



MATCHLINE STATION 1651+15
SEE SHT. 16 FOR CONTINUATION



SECTION A-A



SECTION B

ESCA
CONSULTANTS, INC.

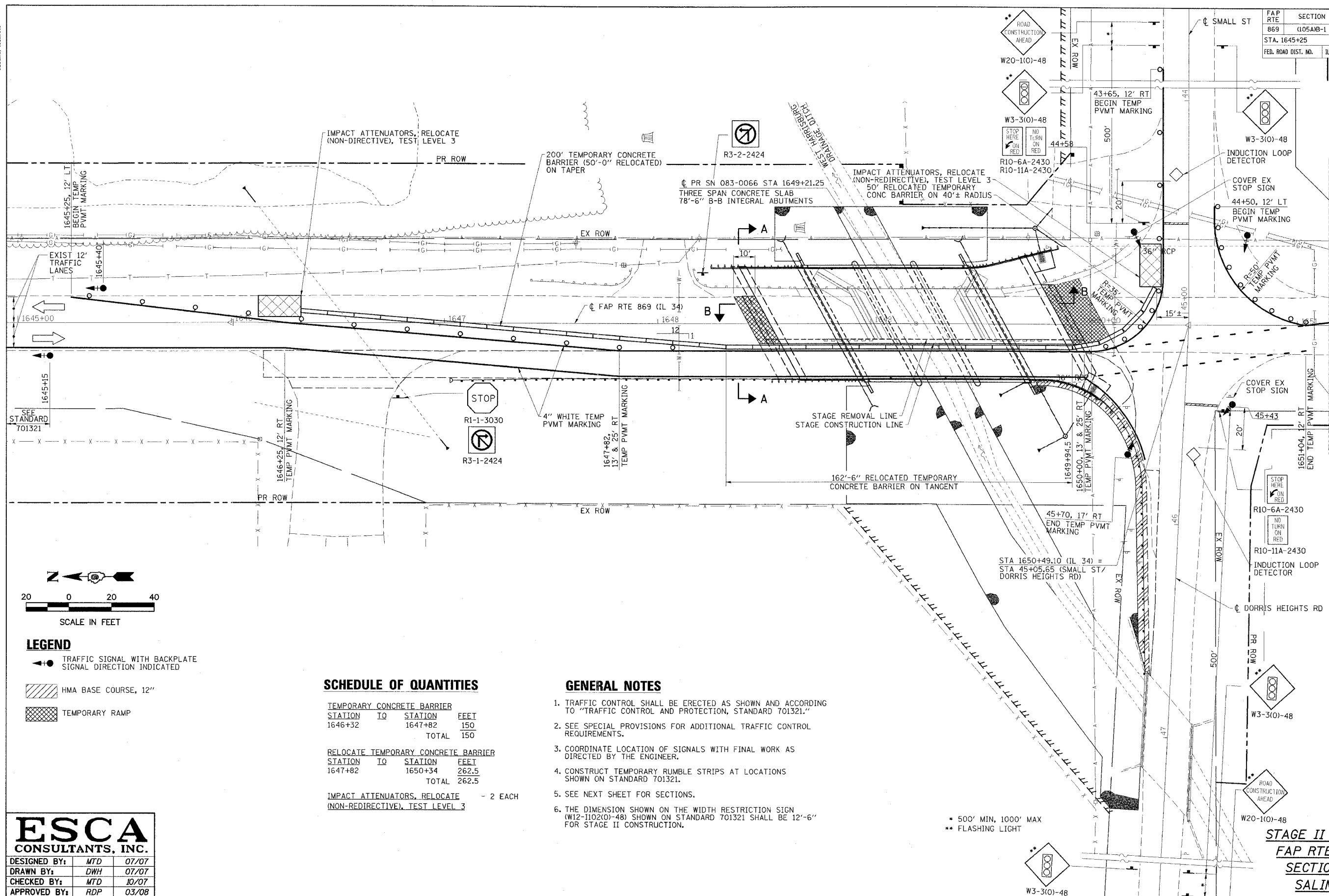
DESIGNED BY:	MTD	07/07
DRAWN BY:	DWH	07/07
CHECKED BY:	MTD	10/07
APPROVED BY:	RDP	03/08

STAGE I CONSTRUCTION
FAP RTE 869 (IL 34)
SECTION (105A)B-1
SALINE COUNTY

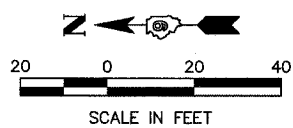


CONTRACT NO. 98999

FAP RTE	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
869	(105A)B-1	SALINE	71	18
STA. 1645+25		TO STA. 1651+15		
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		



MATCHLINE STATION 1651+15
SEE SHT. 19 FOR CONTINUATION



- LEGEND**
- TRAFFIC SIGNAL WITH BACKPLATE
SIGNAL DIRECTION INDICATED
 - HMA BASE COURSE, 12"
 - TEMPORARY RAMP

SCHEDULE OF QUANTITIES

TEMPORARY CONCRETE BARRIER			
STATION TO	STATION	FEET	
1646+32	1647+82	150	
		TOTAL	150

RELOCATE TEMPORARY CONCRETE BARRIER			
STATION TO	STATION	FEET	
1647+82	1650+34	262.5	
		TOTAL	262.5

IMPACT ATTENUATORS, RELOCATE (NON-REDIRECTIVE), TEST LEVEL 3 - 2 EACH

GENERAL NOTES

1. TRAFFIC CONTROL SHALL BE ERECTED AS SHOWN AND ACCORDING TO "TRAFFIC CONTROL AND PROTECTION, STANDARD 701321."
2. SEE SPECIAL PROVISIONS FOR ADDITIONAL TRAFFIC CONTROL REQUIREMENTS.
3. COORDINATE LOCATION OF SIGNALS WITH FINAL WORK AS DIRECTED BY THE ENGINEER.
4. CONSTRUCT TEMPORARY RUMBLE STRIPS AT LOCATIONS SHOWN ON STANDARD 701321.
5. SEE NEXT SHEET FOR SECTIONS.
6. THE DIMENSION SHOWN ON THE WIDTH RESTRICTION SIGN (W12-110(0)-48) SHOWN ON STANDARD 701321 SHALL BE 12'-6" FOR STAGE II CONSTRUCTION.

ESCA
CONSULTANTS, INC.

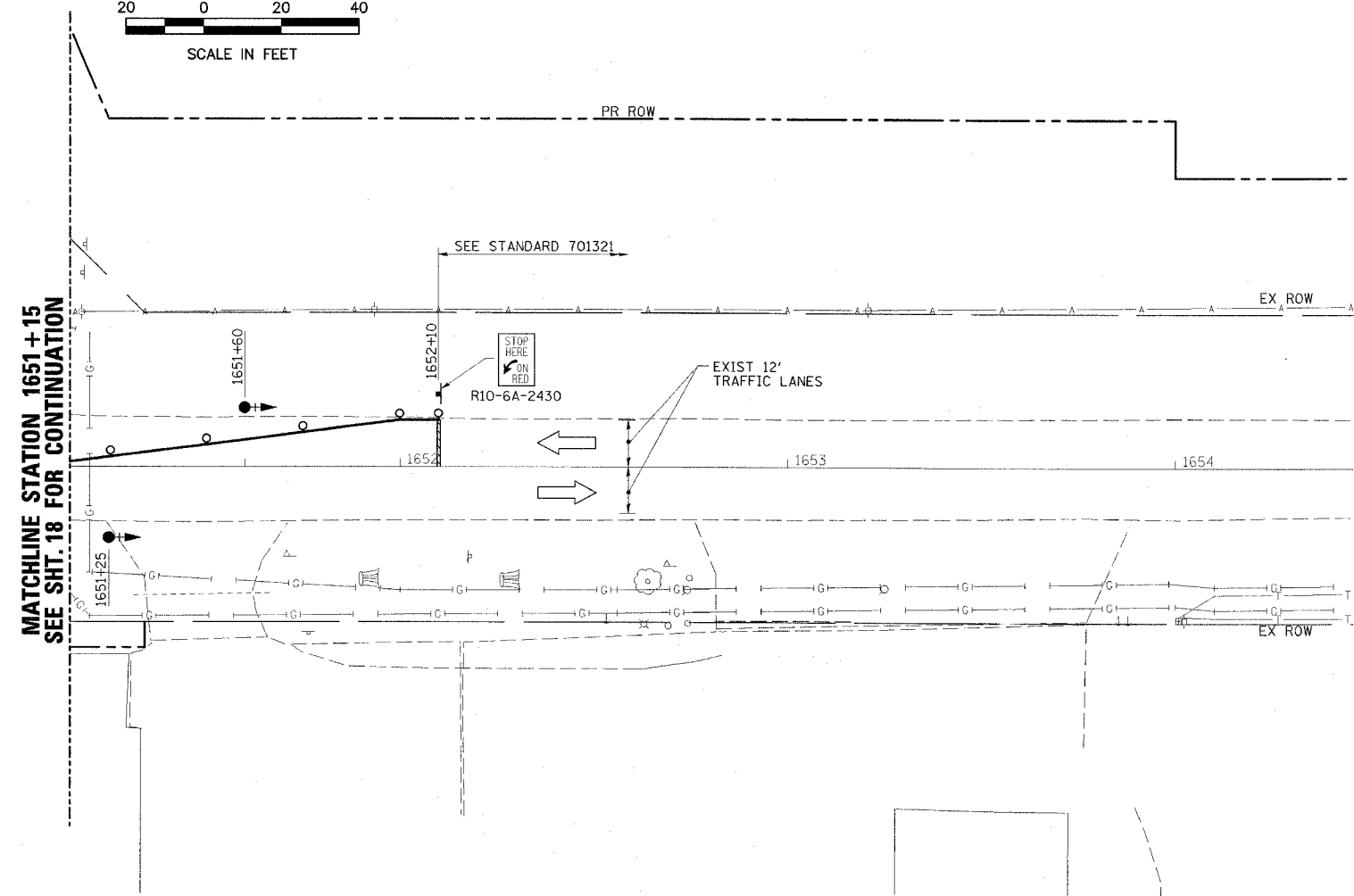
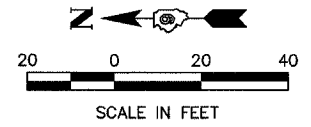
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DRAWN BY:	DWH	07/07
CHECKED BY:	MTD	10/07
APPROVED BY:	RDP	03/08

STAGE II CONSTRUCTION
FAP RTE 869 (IL 34)
SECTION (105A)B-1
SALINE COUNTY

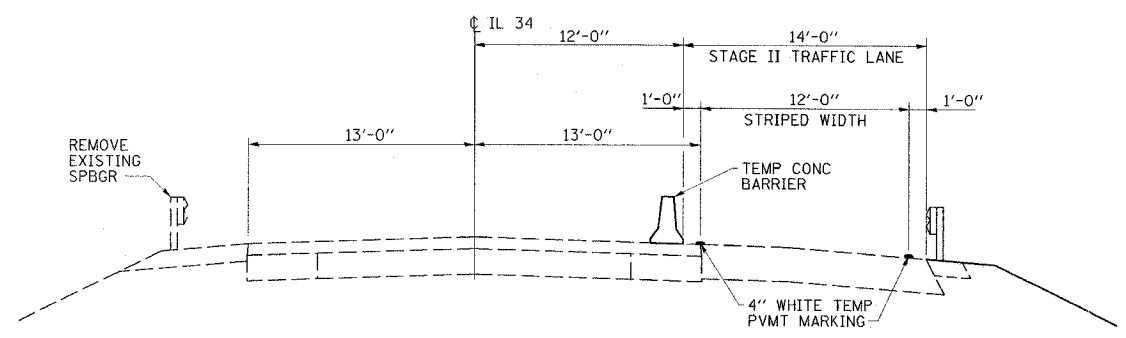


CONTRACT NO. 98999

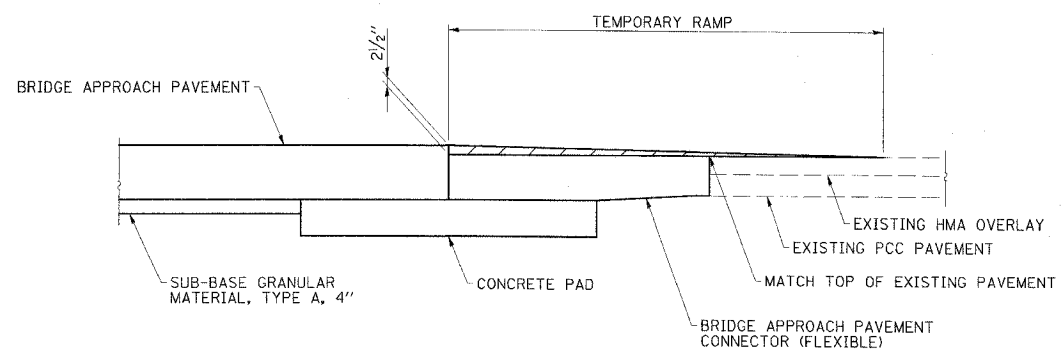
FAP RTE	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
869	(105A)B-1	SALINE	71	19
STA. 1651+15		TO STA. 1652+10		
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		



MATCHLINE STATION 1651 + 15
SEE SHT. 18 FOR CONTINUATION



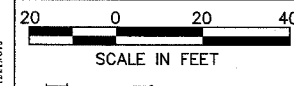
SECTION A-A



SECTION B

ESCA CONSULTANTS, INC.		
DESIGNED BY:	MTD	07/07
DRAWN BY:	DWH	07/07
CHECKED BY:	MTD	10/07
APPROVED BY:	RDP	03/08

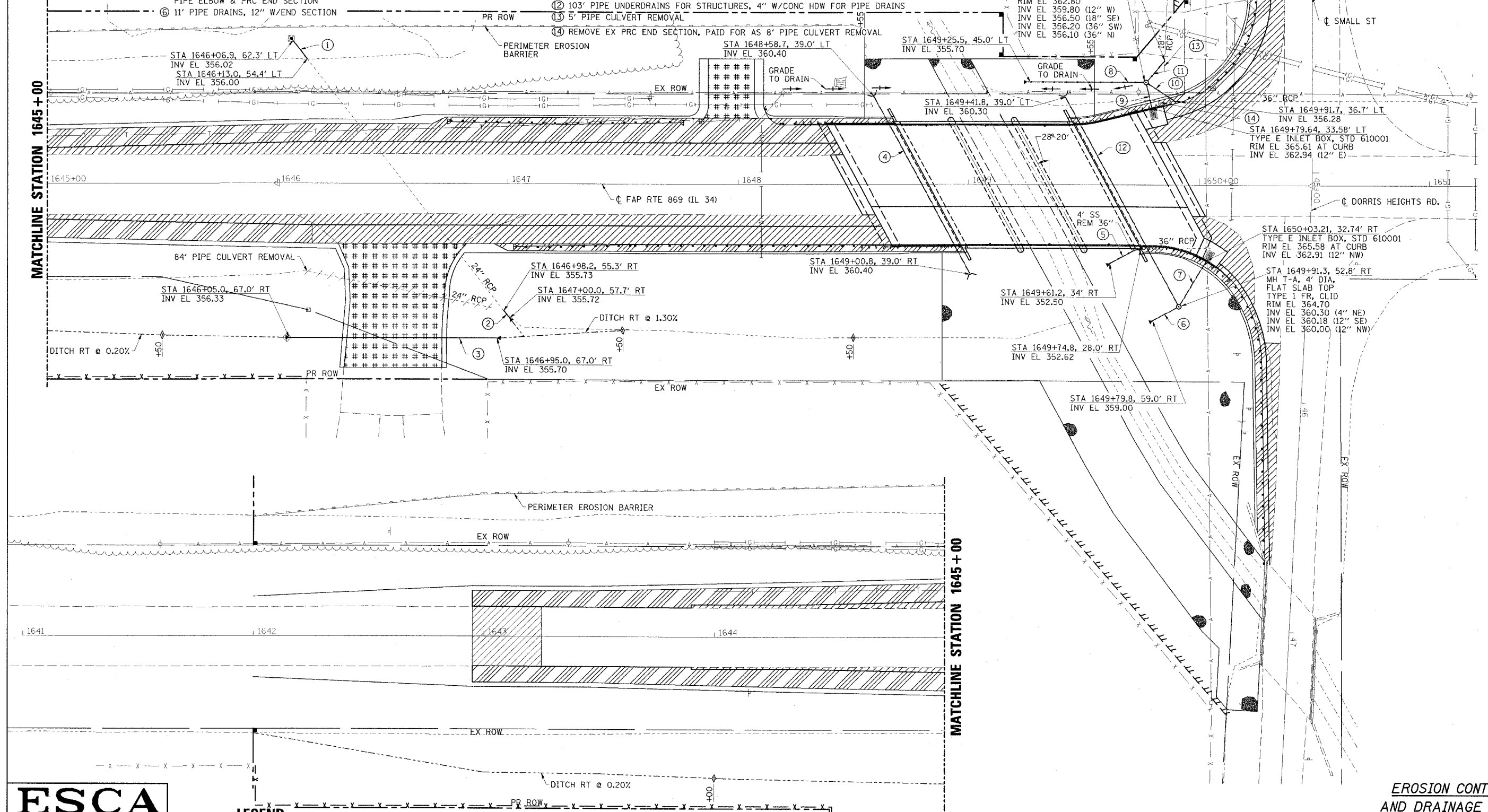
STAGE II CONSTRUCTION
FAP RTE 869 (IL 34)
SECTION (105A)B-1
SALINE COUNTY



- ① 10' PIPE CULVERTS, CLASS A, TYPE 1, 24" W/CONC COLLAR & PRC END SECTION
- ② 4' PIPE CULVERTS, CLASS A, TYPE 1, 24" W/CONC COLLAR & PRC END SECTION
- ③ 90' PIPE CULVERTS, CLASS A, TYPE 2, 24" W/2 PRC END SECTIONS
- ④ 89' PIPE UNDERDRAINS FOR STRUCTURES, 4" W/2 CONC HDW FOR PIPE DRAINS
- ⑤ 11' STORM SEWERS, CLASS A, TYPE 2, 36" W/CONC COLLAR, 28" REINF CONC PIPE ELBOW & PRC END SECTION
- ⑥ 11' PIPE DRAINS, 12" W/END SECTION
- ⑦ 21' PIPE DRAINS, 12"
- ⑧ 49' STORM SEWERS, CLASS A, TYPE 2, 36" W/PRC END SECTION
- ⑨ 9' PIPE DRAINS, 12"
- ⑩ 11' STORM SEWERS, CLASS A, TYPE 2, 36" W/CONC COLLAR 34" REINF CONC PIPE ELBOW
- ⑪ 10' STORM SEWERS, CLASS A, TYPE 2, 18" W/ CONC COLLAR
- ⑫ 103' PIPE UNDERDRAINS FOR STRUCTURES, 4" W/CONC HDW FOR PIPE DRAINS
- ⑬ 5' PIPE CULVERT REMOVAL
- ⑭ REMOVE EX PRC END SECTION, PAID FOR AS 8' PIPE CULVERT REMOVAL

MATCHLINE STATION 44+00
SEE SHT. 21 FOR CONT.

CONTRACT NO. 98999	
FAP RTE 869	SECTION 105A/B-1
COUNTY SALINE	TOTAL SHEETS 71
NO. 20	
STA. 1641+00	TO STA. 1651+00
FED. ROAD DIST. NO.	ILLINOIS FED. AID PROJECT

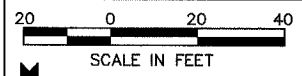


ESCA
CONSULTANTS, INC.

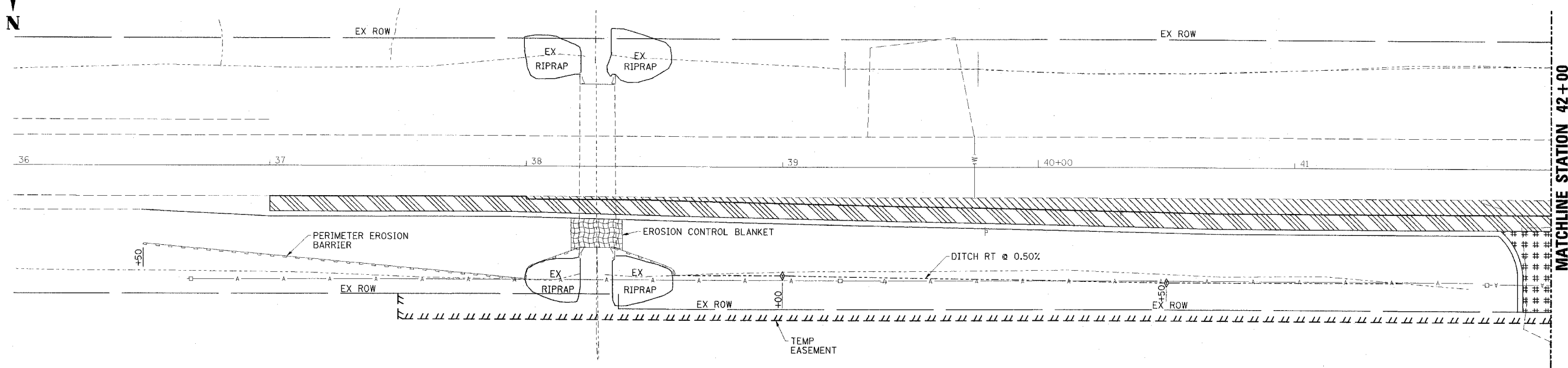
DESIGNED BY:	MTD	07/07
DRAWN BY:	DWH	07/07
CHECKED BY:	MTD	10/07
APPROVED BY:	RDP	03/08

- LEGEND**
- PERIMETER EROSION BARRIER
 - ▨ EROSION CONTROL BLANKET
 - ⊕ TEMPORARY DITCH CHECK
 - ⊕ INLET AND PIPE PROTECTION
 - SWALE FLOW DIRECTION

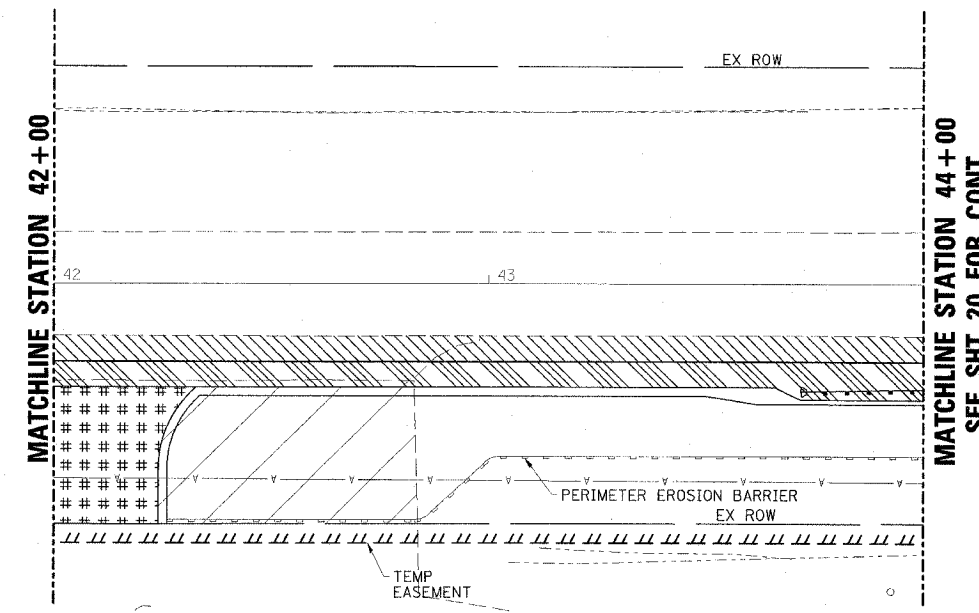
EROSION CONTROL AND DRAINAGE PLAN
FAP RTE 869 (IL 34)
SECTION 105A/B-1
SALINE COUNTY



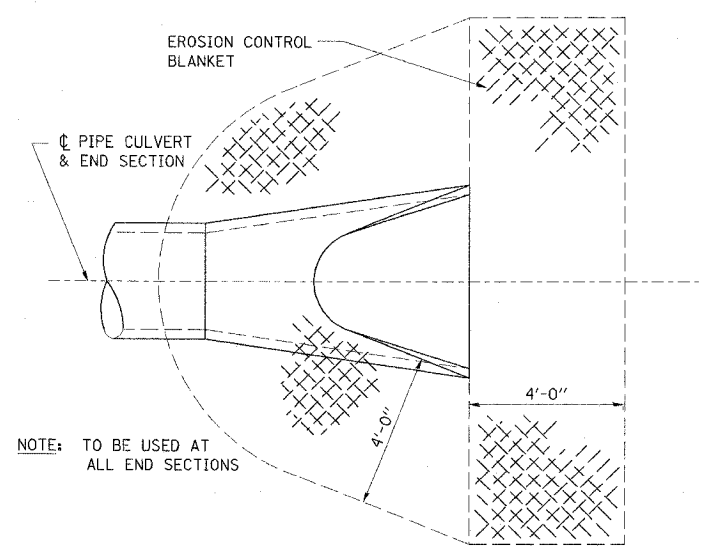
CONTRACT NO. 98999				
FAP RTE	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
869	(105A)B-1	SALINE	71	21
STA. 36+00		TO STA. 44+00		
FED. ROAD DIST. NO.	ILLINOIS		FED. AID PROJECT	



MATCHLINE STATION 42+00



MATCHLINE STATION 44+00
SEE SHT. 20 FOR CONT.



NOTE: TO BE USED AT ALL END SECTIONS

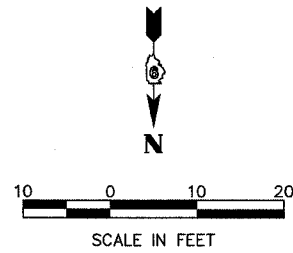
DETAIL OF EROSION CONTROL BLANKET LINING AROUND END SECTION

EROSION CONTROL AND DRAINAGE NOTES

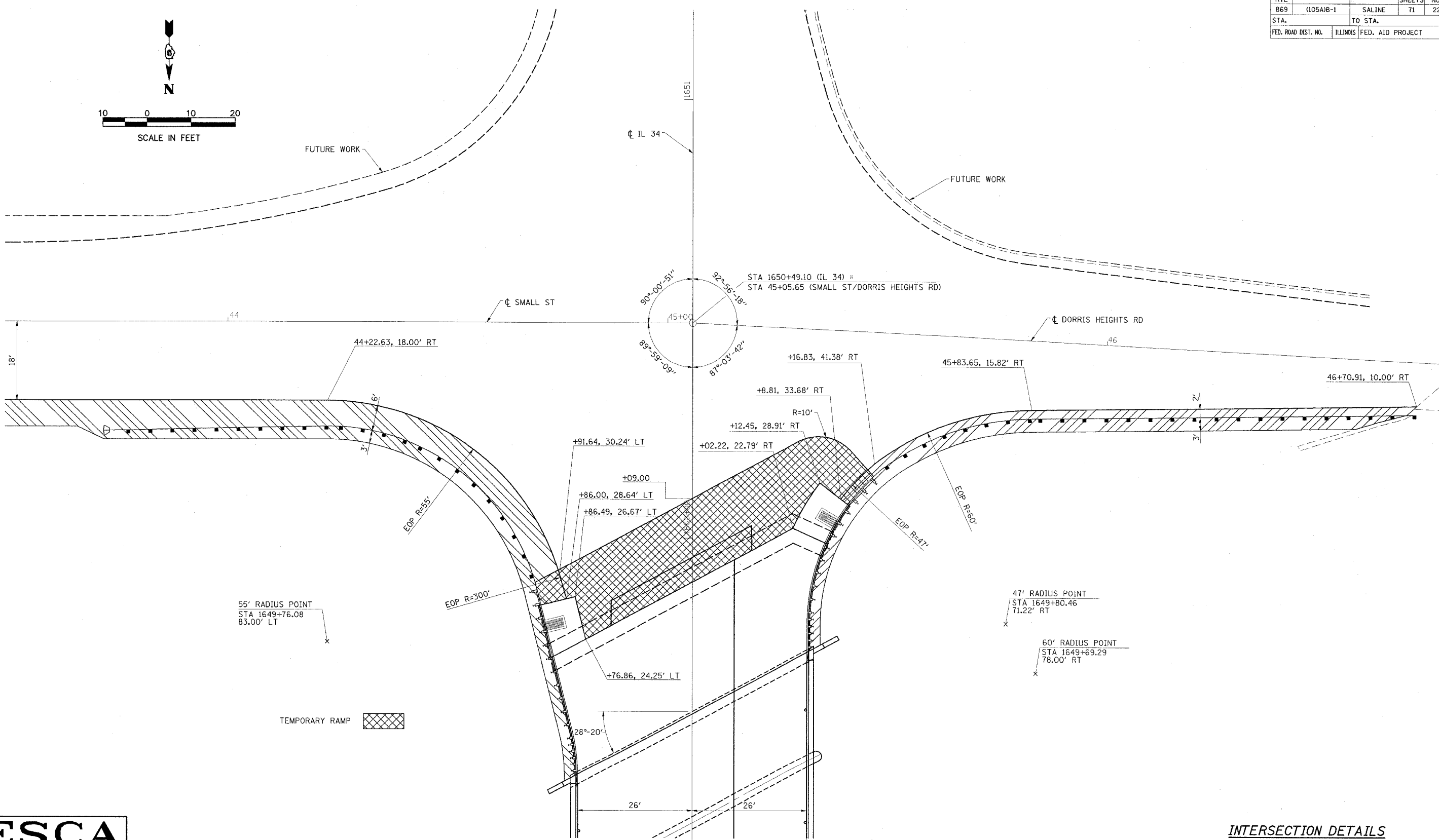
1. ALL CULVERT EXTENSIONS SHALL BE CONSTRUCTED IN ACCORDANCE WITH METHOD II AS SPECIFIED IN ARTICLE 542.05 OF THE STANDARD SPECIFICATIONS. PRIOR TO EXTENDING ANY CULVERT, THE ENTIRE LENGTH OF THE EXISTING CULVERT SHALL BE CLEANED OF ALL EARTH AND DEBRIS BY THE CONTRACTOR TO THE SATISFACTION OF THE ENGINEER. THE COST OF THIS WORK SHALL BE PAID ACCORDING TO ARTICLE 109.04.
2. CONNECTING OF NEW OR EXISTING STORM SEWER TO NEW OR EXISTING INLETS OR MANHOLES SHALL BE MADE IN A MANNER WHICH RESULTS IN A NEAT AND WATERTIGHT JOINT. WHEN PLACED THROUGH THE WALL OF AN INLET OR MANHOLE, STORM SEWER PIPE SHALL BE PLACED OR CUT FLUSH WITH THE FACE OF THE WALL AND DRESSED WITH MORTAR TO PROVIDE A SMOOTH ROUNDED OR BEVELED EDGE. THIS WORK WILL NOT BE PAID FOR SEPARATELY, BUT SHALL BE CONSIDERED AS INCLUDED IN THE CONTRACT UNIT PRICES OF THE STORM SEWERS OR STRUCTURES INVOLVED.
3. BEFORE ORDERING STORM SEWERS, PIPE CULVERTS, PIPE DRAINS, AND MANHOLES, THE CONTRACTOR SHALL CONTACT THE ENGINEER AS TO THE EXACT LENGTH AND QUANTITY REQUIRED.

ESCA		
CONSULTANTS, INC.		
DESIGNED BY:	MTD	07/07
DRAWN BY:	DWH	07/07
CHECKED BY:	MTD	10/07
APPROVED BY:	RDP	03/08

EROSION CONTROL AND DRAINAGE PLAN
FAP RTE 869 (IL 34)
SECTION (105A)B-1
SALINE COUNTY



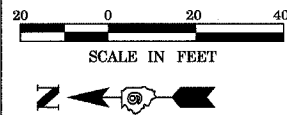
CONTRACT NO. 98999				
FAP RTE	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
869	(105A)B-1	SALINE	71	22
STA.		TO STA.		
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		



ESCA CONSULTANTS, INC.			
DESIGNED BY:	MTD	06/07	
DRAWN BY:	DWH	06/07	
CHECKED BY:	MTD	10/07	
APPROVED BY:	RDP	03/08	

INTERSECTION DETAILS
FAP RTE 869 (IL 34)
SECTION (105A)B-1
SALINE COUNTY

PLOT DATE = DATE
 FILE NAME = FILEL
 SCALE = FILEL
 REFERENCE = REF



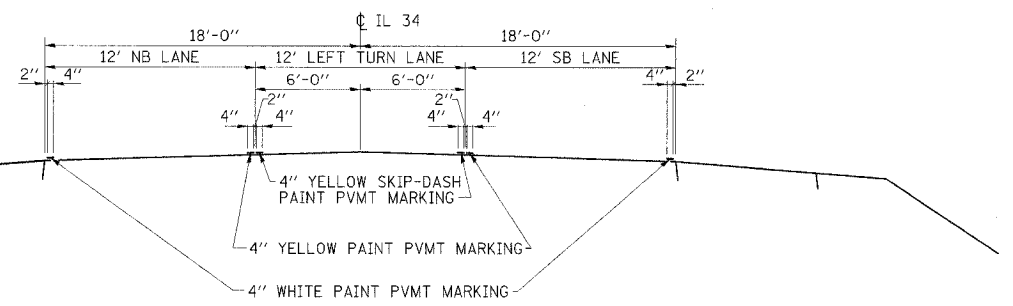
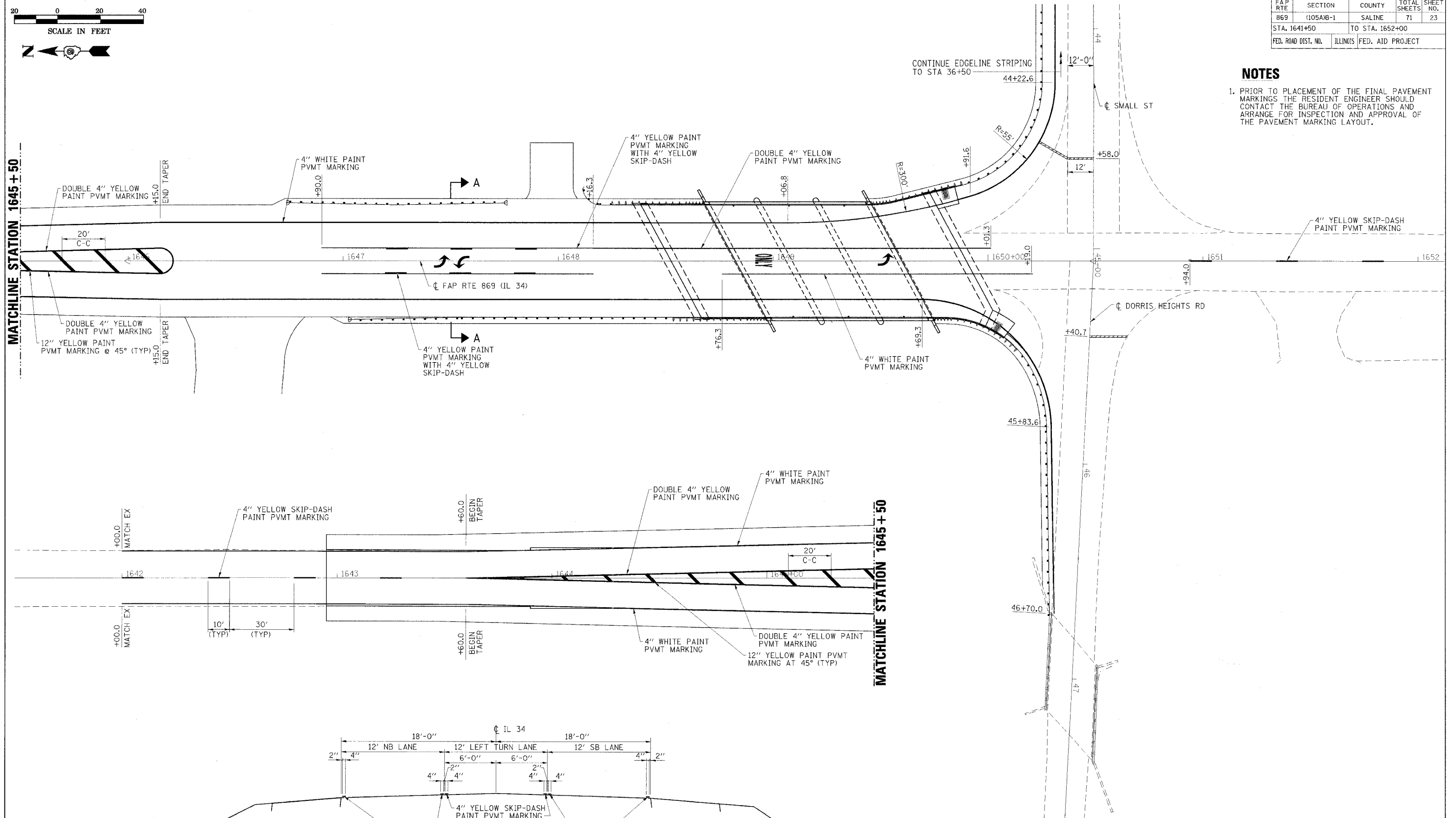
CONTRACT NO. 98999				
FAP RTE	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
869	(105A)B-1	SALINE	71	23
STA. 1641+50		TO STA. 1652+00		
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		

NOTES

1. PRIOR TO PLACEMENT OF THE FINAL PAVEMENT MARKINGS THE RESIDENT ENGINEER SHOULD CONTACT THE BUREAU OF OPERATIONS AND ARRANGE FOR INSPECTION AND APPROVAL OF THE PAVEMENT MARKING LAYOUT.

MATCHLINE STATION 1645 + 50

MATCHLINE STATION 1645 + 50



SECTION A-A

ESCA
CONSULTANTS, INC.

DESIGNED BY:	MTD	07/07
DRAWN BY:	HAS	03/08
CHECKED BY:	MTD	03/08
APPROVED BY:	RDP	03/08

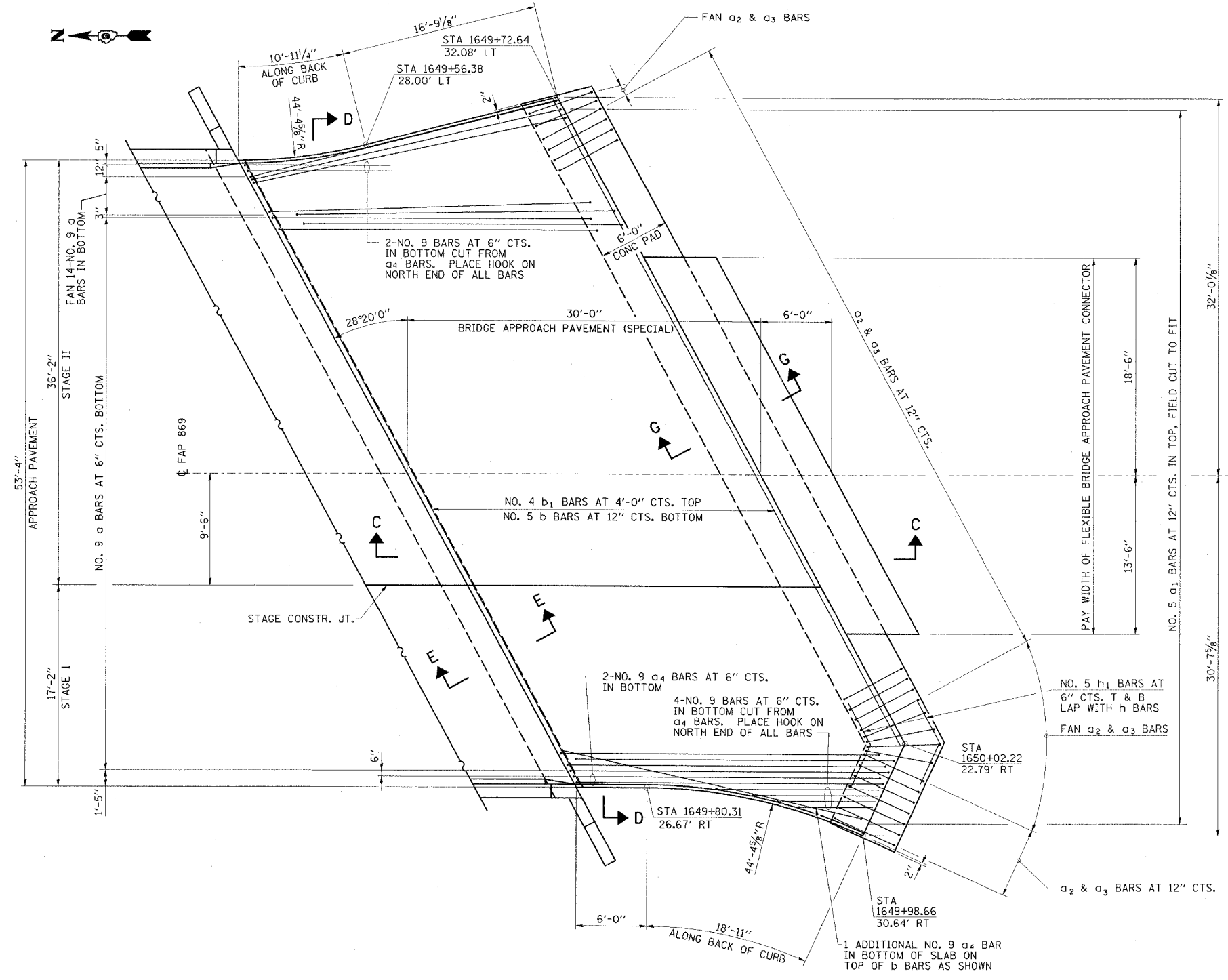
PAVEMENT MARKING DETAILS
FAP RTE 869 (IL 34)
SECTION (105A)B-1
SALINE COUNTY



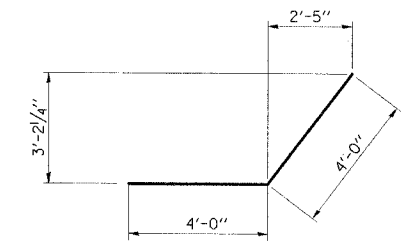
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869	(105A)B-1	SALINE	71	24
STA.	TO STA.			
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		

NOTES

1. SEE STANDARD 420401 FOR ADDITIONAL DETAILS AND SECTIONS NOT SHOWN.
2. SEE STRUCTURE PLANS FOR TOP OF APPROACH PAVEMENT ELEVATIONS.



BAR a4



BAR h1

SOUTH BRIDGE APPROACH PLAN

ESCA
CONSULTANTS, INC.

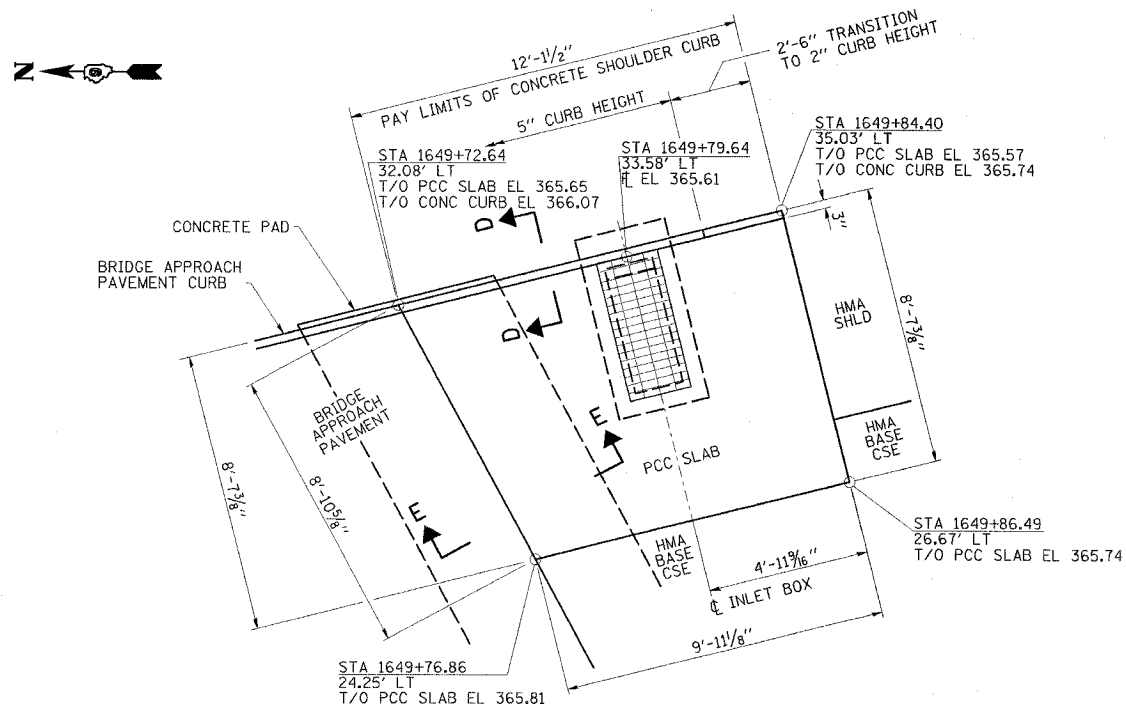
DESIGNED BY:	MTD	06/07
DRAWN BY:	DWH	06/07
CHECKED BY:	MTD	10/07
APPROVED BY:	RDP	03/08

BRIDGE APPROACH PAVEMENT (SPECIAL)
FAP RTE 869 (IL 34)
SECTION (105A)B-1
SALINE COUNTY

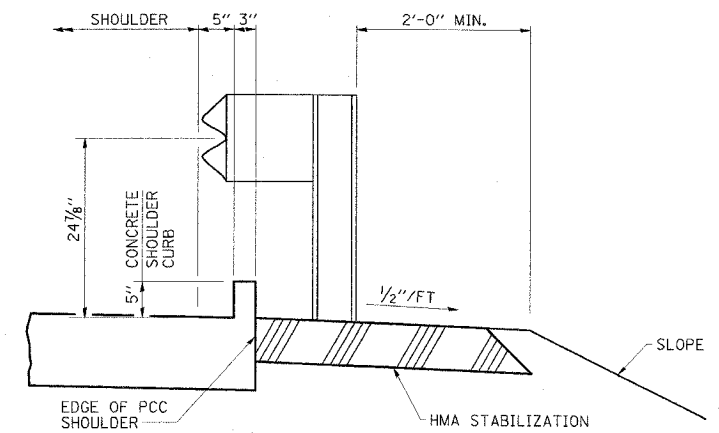
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 PLOT SCALE = #SCALE#
 PLOT REFERENCE = #REF#



FAP RTE	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
869	(105A)B-1	SALINE	71	25
STA.		TO STA.		
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		



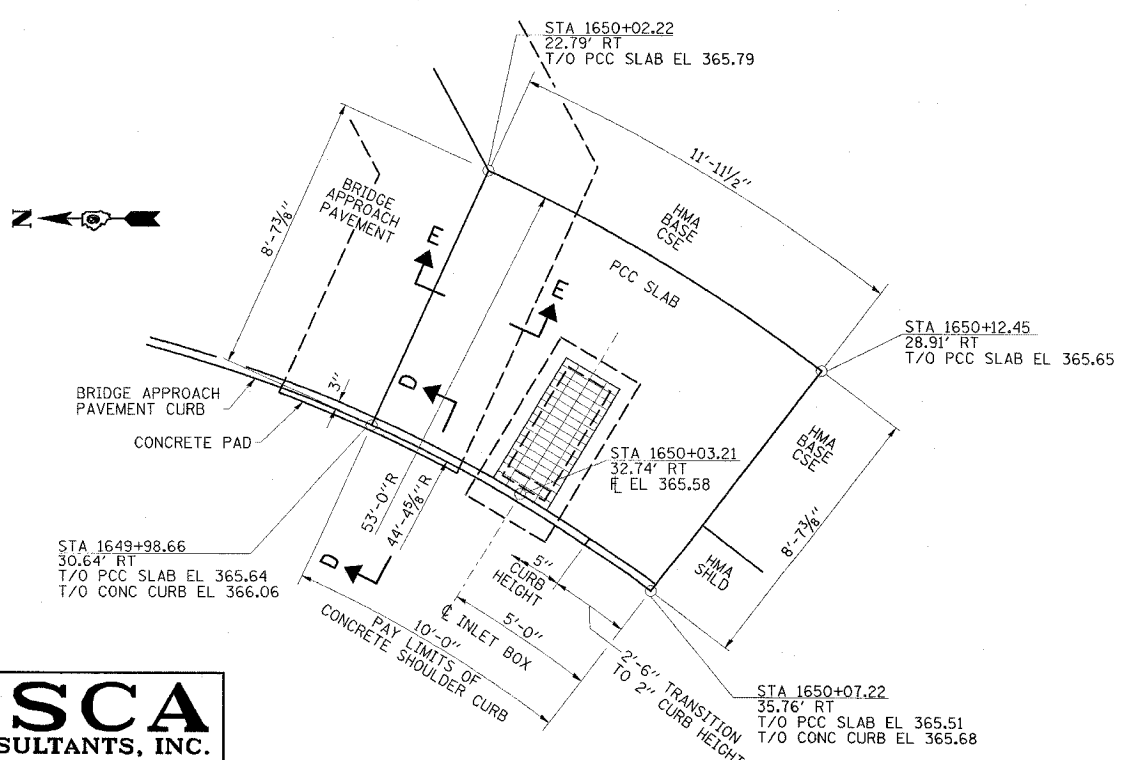
PLAN SOUTH EAST INLET



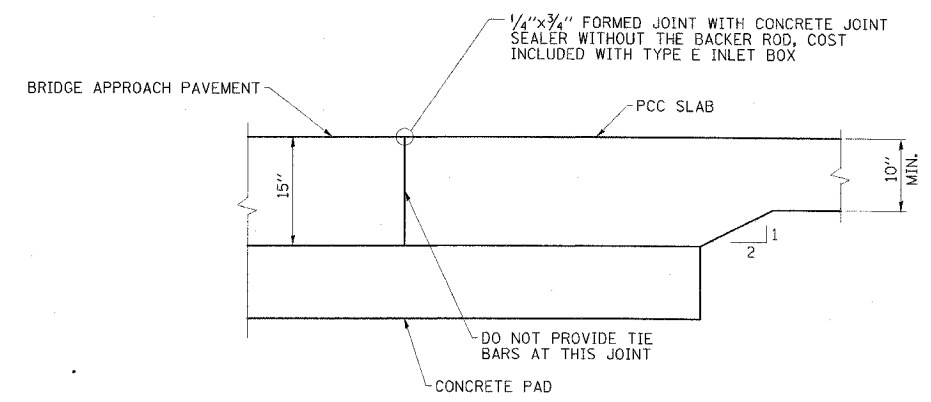
SECTION D-D

NOTES

1. SEE STANDARD 610001 FOR REINFORCEMENT. ADDITIONAL DETAILS AND SECTIONS NOT SHOWN.
2. SECTION C-C AND DETAIL B ON STANDARD 610001 DO NOT APPLY.
3. PCC SLAB THICKNESS SHALL BE 10" MIN. REGARDLESS OF ADJACENT PAVEMENT OR SHOULDER THICKNESS EXCEPT AS SHOWN IN SECTION E-E.



PLAN SOUTH WEST INLET



SECTION E-E

ESCA
CONSULTANTS, INC.

DESIGNED BY:	MTD	06/07
DRAWN BY:	DWH	06/07
CHECKED BY:	MTD	10/07
APPROVED BY:	RDP	03/08

TYPE E INLET BOX
STANDARD 610001 DETAILS
FAP RTE 869 (IL 34)
SECTION (105A)B-1
SALINE COUNTY

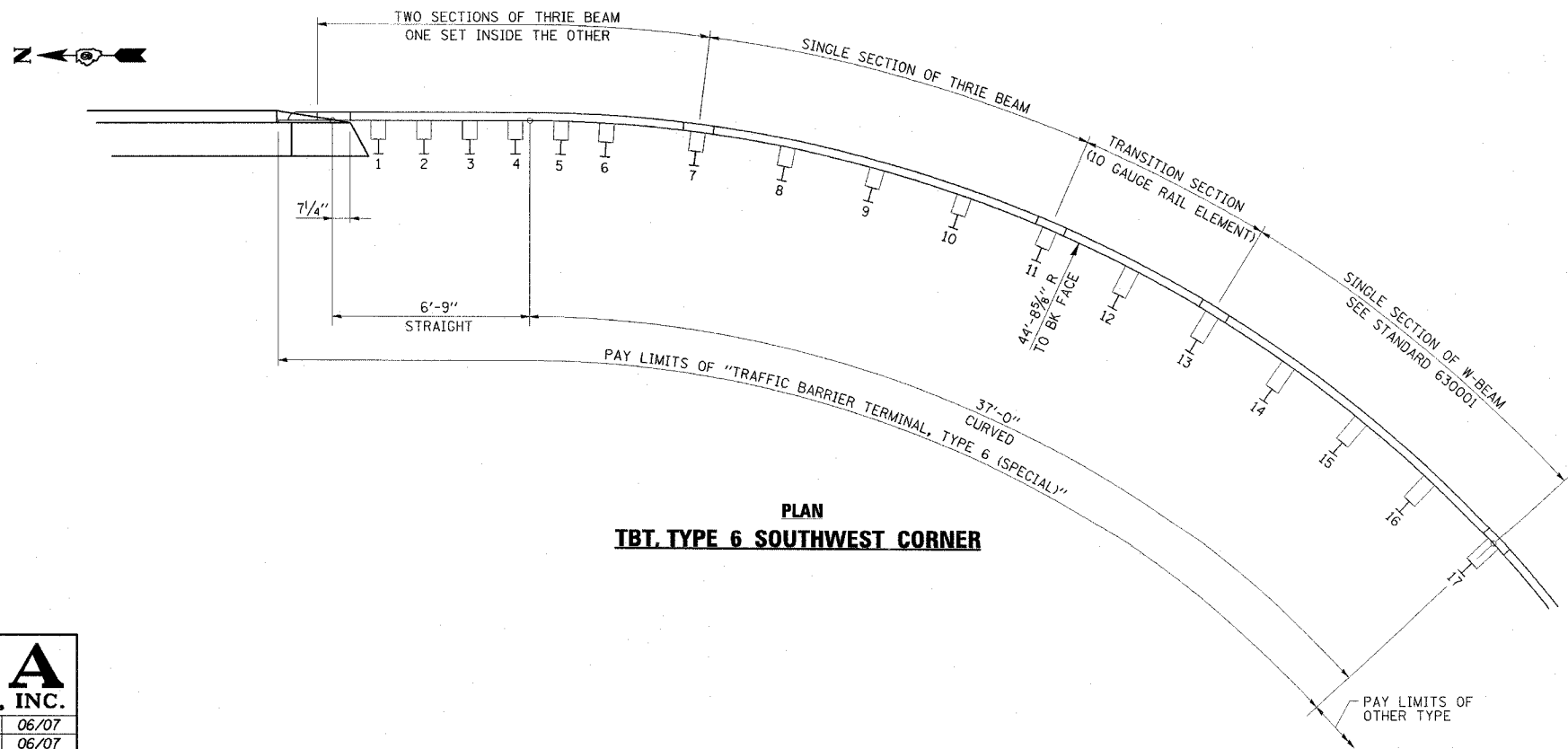
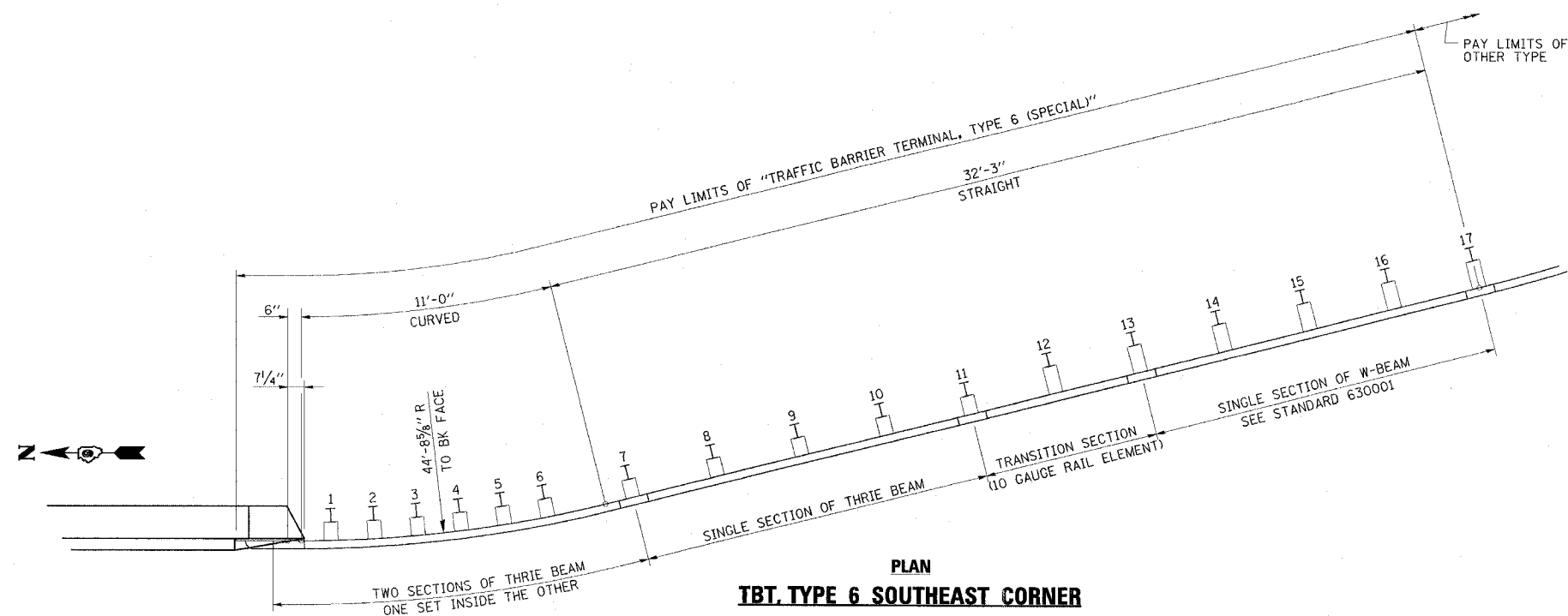
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PLOT SCALE = #SCALE#
REFERENCE = #REF#



CONTRACT NO. 98999				
FAP RTE	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
869	(105A)B-1	SALINE	71	26
STA.		TO STA.		
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		

NOTES

1. SEE STANDARD 631031 FOR POST SPACING AND ADDITIONAL DETAILS.
2. RAIL ELEMENTS SHALL BE SHOP CURVED TO THE RADII SHOWN AND THE COST INCLUDED IN "TRAFFIC BARRIER TERMINAL, TYPE 6 (SPECIAL)".



TBT TYPE 6 (SPECIAL)
FAP RTE 869 (IL 34)
SECTION (105A)B-1
SALINE COUNTY

ESCA CONSULTANTS, INC.		
DESIGNED BY:	MTD	06/07
DRAWN BY:	DWH	06/07
CHECKED BY:	MTD	10/07
APPROVED BY:	RDP	03/08

PLOT DATE = DATE
FILE NAME = FILE
PLOT SCALE = REF
REFERENCE = REF

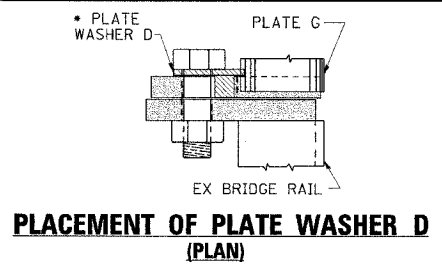


CONTRACT NO. 98999

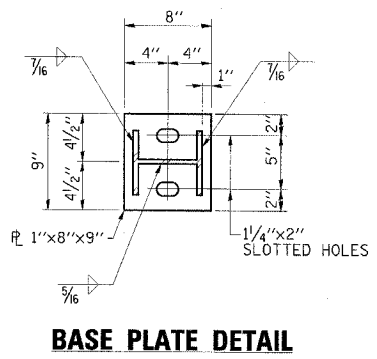
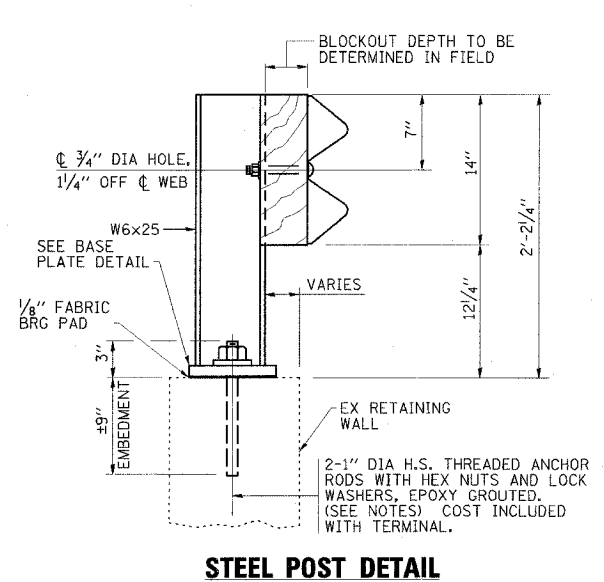
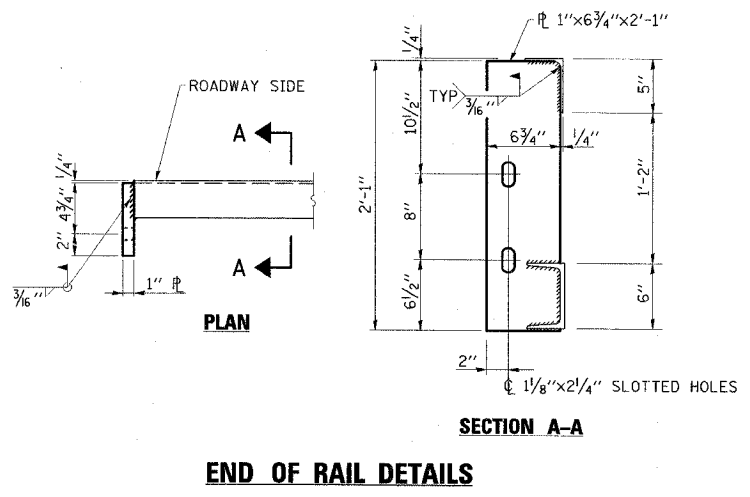
FAP RTE	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
869	(105A)B-1	SALINE	71	27
STA.		TO STA.		
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		

NOTES

- SEE STANDARD 631026 FOR PLATES E AND G AND ADDITIONAL DETAILS.
- ALL MODIFICATIONS TO THE EXISTING BRIDGE RAIL SHALL BE INCLUDED IN THE COST OF "TRAFFIC BARRIER TERMINAL, TYPE 5A (SPECIAL)".
- PROVIDE ONE 1/8" AND ONE 1/16" STEEL SHIMS FOR THE STEEL POST. SHIMS SHALL BE SIMILAR TO BASE PLATE IN SIZE AND HOLES.
- THE CONTRACTOR SHALL USE THE CAPSULE OR THE ADHESIVE CARTRIDGE TYPE ANCHOR RODS THAT HAVE BEEN PREVIOUSLY TESTED AND GIVEN A PRIOR APPROVAL BY THE DEPARTMENT. THE CONTRACTOR SHALL INSTALL THESE ANCHOR RODS IN PRE-DRILLED HOLES ACCORDING TO THE MANUFACTURER'S RECOMMENDATIONS AND PROCEDURES. THE CAPSULE OR THE ADHESIVE CARTRIDGE SHALL BE SEALED WITH PRE-MEASURED AMOUNTS OF THE ADHESIVE CHEMICAL.
- NUTS FOR 1" DIA. THREADED ANCHOR RODS CONNECTING THE BASE PLATE TO THE CONCRETE SHALL BE TIGHTENED TO A SNUG FIT AND GIVEN AN ADDITIONAL 1/8 TURN.

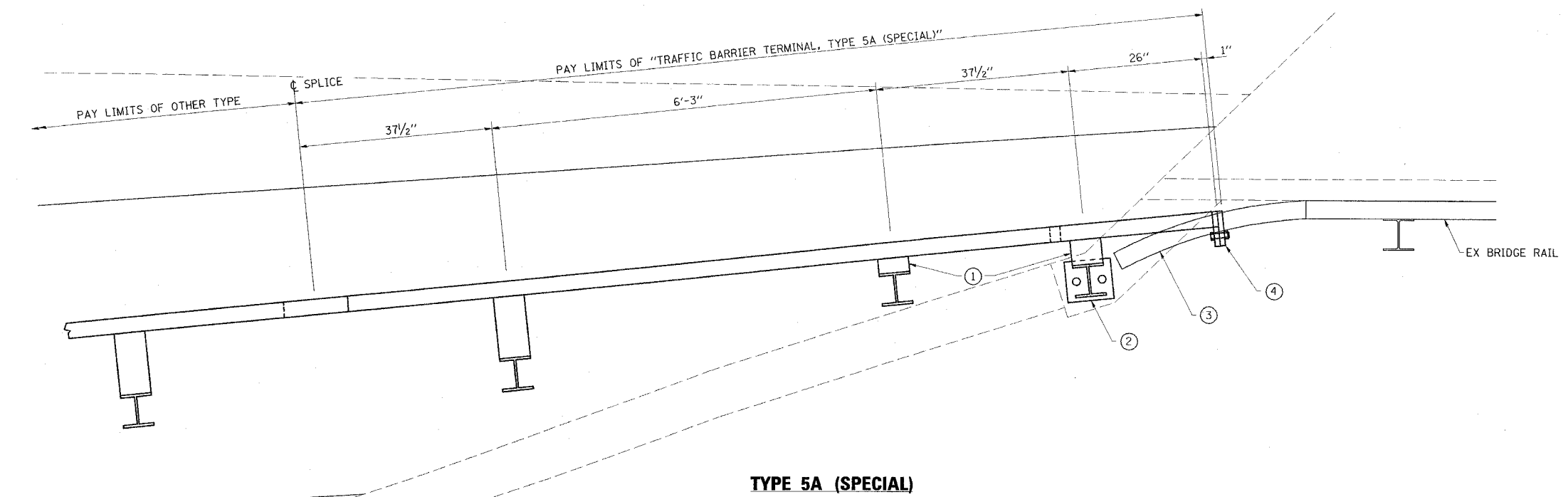


• INSTALL PLATE WASHER D SO THAT THE 1" PROJECTION FILLS THE REMAINDER OF THE SLOTTED HOLES IN THE 1" END PLATE AFTER THE 1" DIA. BOLTS ARE IN PLACE



LEGEND

- VARY DEPTH OF WOOD BLOCKOUT AS REQUIRED FOR POST INSTALLATION.
- SEE STEEL POST DETAIL.
- FIELD CUT EXISTING BRIDGE RAIL AS REQUIRED FOR TERMINAL INSTALLATION. MINOR BENDING MAY ALSO BE REQUIRED TO MATCH FACE OF NEW GUARDRAIL.
- SEE END OF RAIL DETAILS.



TBT TYPE 5A (SPECIAL)
FAP RTE 869 (IL 34)
SECTION (105A)B-1
SALINE COUNTY

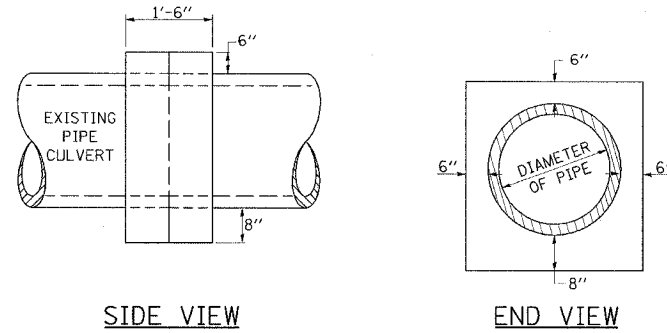
ESCA
CONSULTANTS, INC.

DESIGNED BY:	MTD	06/07
DRAWN BY:	DWH	06/07
CHECKED BY:	MTD	10/07
APPROVED BY:	RDP	03/08

PLOT DATE = \$DATE\$
PLOT SCALE = \$SCALE\$
PLOT SIZE = \$SIZE\$
REFERENCE = \$REF\$



DETAILS OF CONCRETE COLLAR PIPE TO PIPE



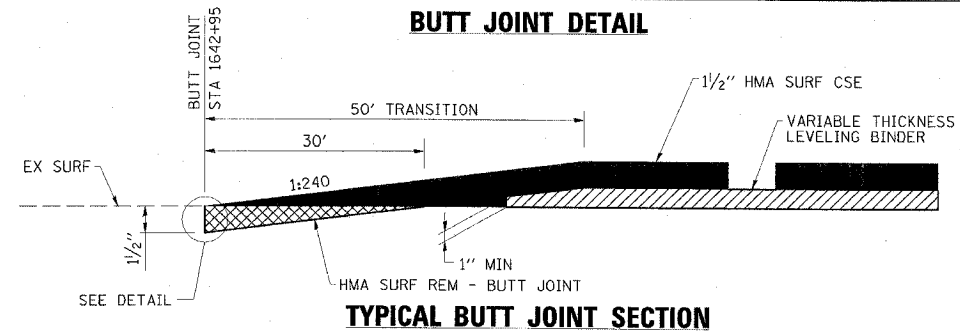
TABULATION

DIAMETER OF PIPE	CL SI CONC CU YDS EST
12"	0.24
15"	0.29
18"	0.32
24"	0.44
30"	0.56
36"	0.66
42"	0.80
48"	0.93
54"	1.07
60"	1.22
72"	1.55

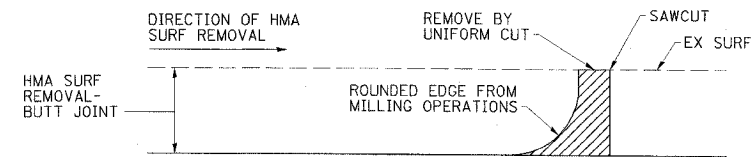
THE CONCRETE COLLAR SHALL BE PAID FOR AT THE CONTRACT UNIT PRICE PER CUBIC YARD FOR CONCRETE COLLAR, AS SHOWN ON THE PLANS, WHICH PRICE SHALL INCLUDE THE REMOVAL OF SUCH PORTIONS THE EXISTING HEADWALLS AS MAY BE REQUIRED. CLASS SI CONCRETE SHALL BE USED THROUGHOUT.

REVISIONS
DRAWN 7-13-90
REVISED 8-22-94
REVISED
STD. 9-79

CONTRACT NO. 98999				
FAP RTE	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
869	(105A)B-1	SALINE	71	28
STA.		TO STA.		
FED. ROAD DIST. NO.		ILLINOIS FED. AID PROJECT		



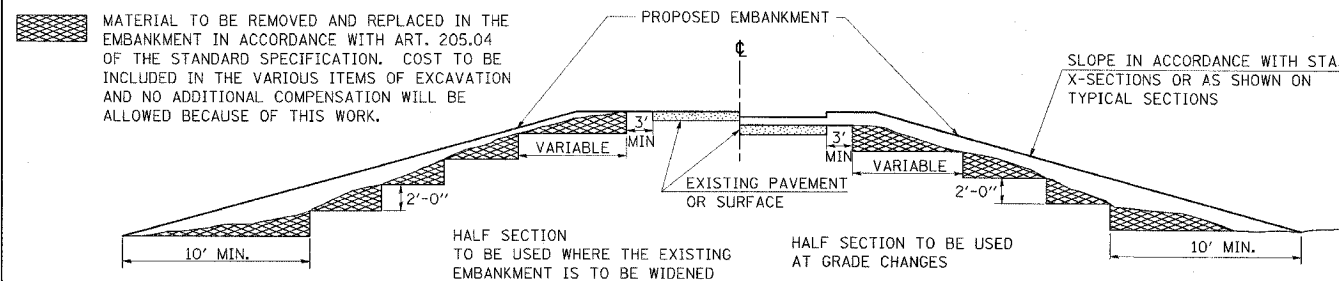
TYPICAL BUTT JOINT SECTION



DETAIL AT BUTT JOINT

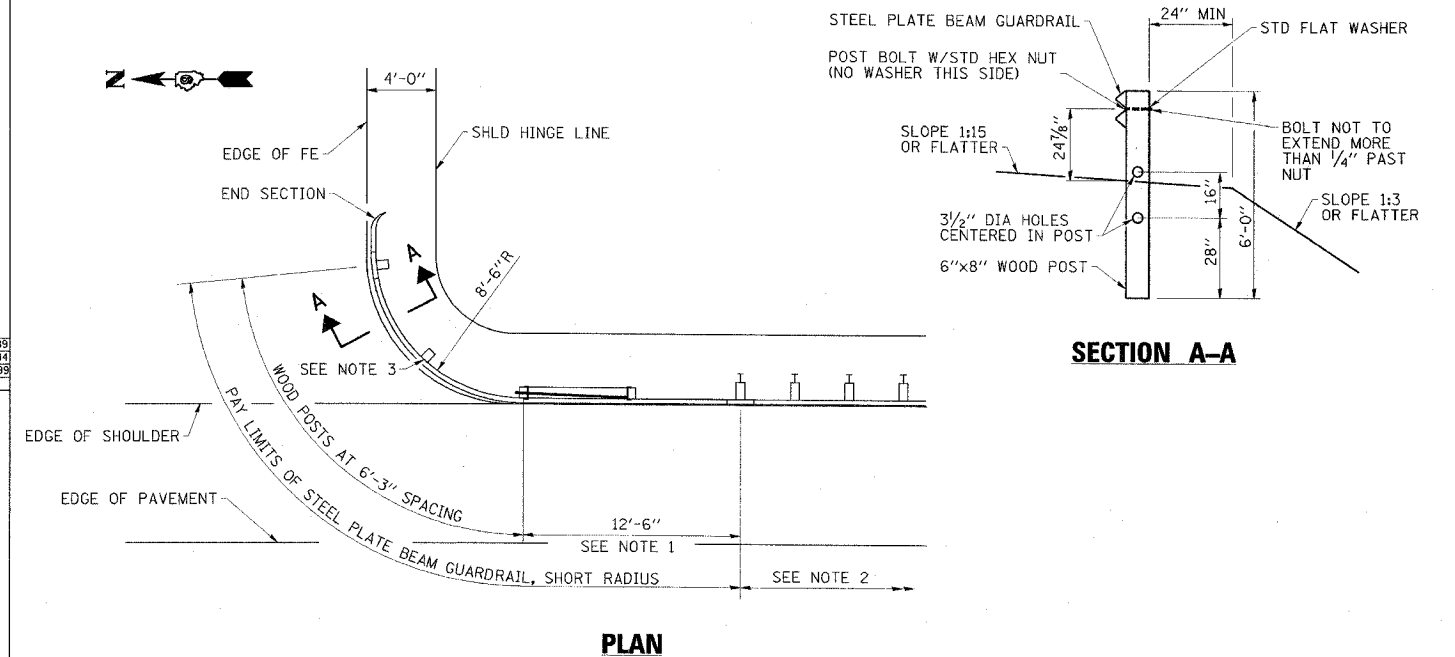
NOTE: WHEN MILLING OPERATIONS PRODUCE A ROUNDED EDGE, THEN A SAWCUT SHALL BE USED TO MANUFACTURE A PERPENDICULAR EDGE AS SHOWN IN THE DETAIL. THE COST OF ALL WORK SHOWN IN THE DETAIL IS INCLUDED IN HOT-MIX ASPHALT SURFACE REMOVAL - BUTT JOINT. THE ENGINEER SHALL BE THE SOLE JUDGE CONCERNING THE USE OF THIS DETAIL.

TYPICAL CROSS SECTION SHOWING STEP CONSTRUCTION ON EXISTING FILL



REVISIONS
DRAWN 2-15-89
REVISED 8-15-94
CHECKED 6-3-99
REVISED
STD. 9-16

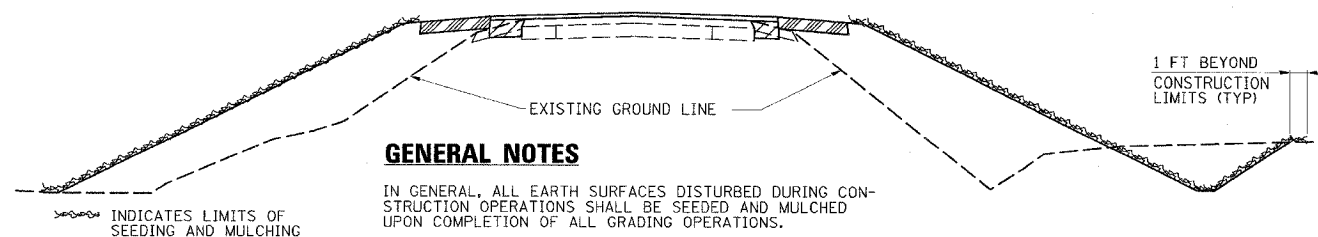
SHORT RADIUS GUARDRAIL DETAILS



NOTES

- CONSTRUCT ACCORDING TO STANDARD 631011 FOR TRAFFIC BARRIER TERMINAL TYPE 2 EXCEPT DELETE END SECTION AND SPLICE INTO RADIUS GUARDRAIL.
- STEEL PLATE BEAM GUARDRAIL TYPE A, TYPE B, OR TRAFFIC BARRIER TERMINAL AS SPECIFIED.
- THE RAIL IS NOT BOLTED TO THE POST LOCATED AT THE MIDPOINT OF THE CURVE.

SEEDING & MULCHING



GENERAL NOTES

IN GENERAL, ALL EARTH SURFACES DISTURBED DURING CONSTRUCTION OPERATIONS SHALL BE SEEDED AND MULCHED UPON COMPLETION OF ALL GRADING OPERATIONS.

FERTILIZER NUTRIENTS AND LIMESTONE SHALL BE APPLIED TO ALL SEEDED AREAS.

THE RATES OF APPLICATION OF FERTILIZER, MULCH AND LIMESTONE SHALL BE AS SPECIFIED IN THE STD SPECIFICATIONS.

SECTIONS 250 AND 251 OF THE STANDARD SPECIFICATIONS SHALL GOVERN THIS WORK EXCEPT AS SPECIFIED HEREIN OR AS NOTED IN THE SPECIAL PROVISIONS.

ESCA
CONSULTANTS, INC.

DESIGNED BY:	MTD	06/07
DRAWN BY:	DWH/JPC	06/07
CHECKED BY:	MTD	10/07
APPROVED BY:	RDP	03/08

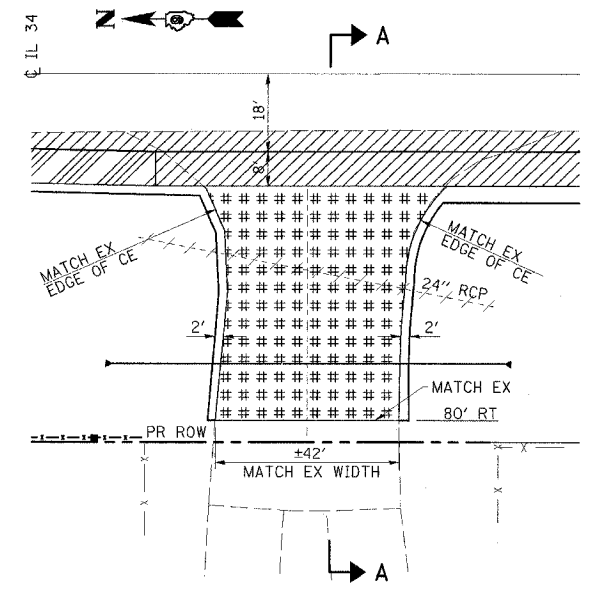
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REFERENCE = SHEET

MISCELLANEOUS DETAILS
FAP RTE 869 (IL 34)
SECTION (105A)B-1
SALINE COUNTY

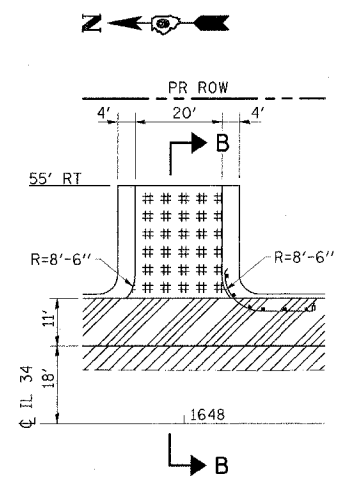


CONTRACT NO. 98999

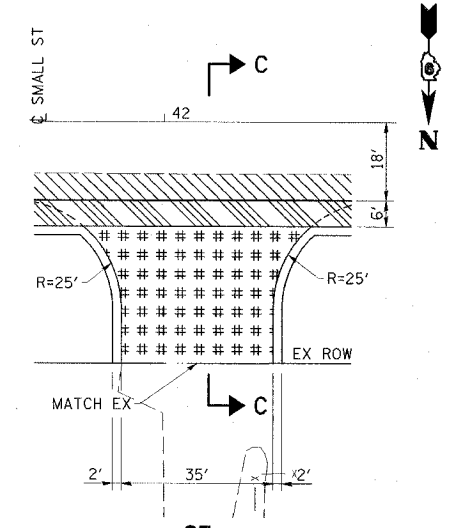
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STA.		TO STA.		
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		



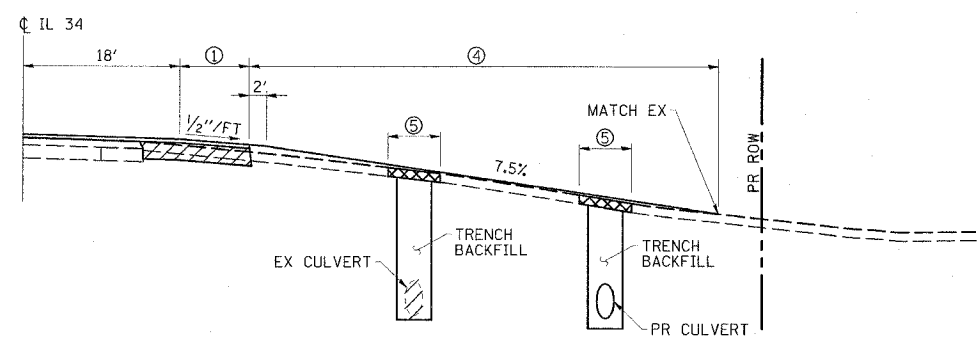
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STA 1646+50.0



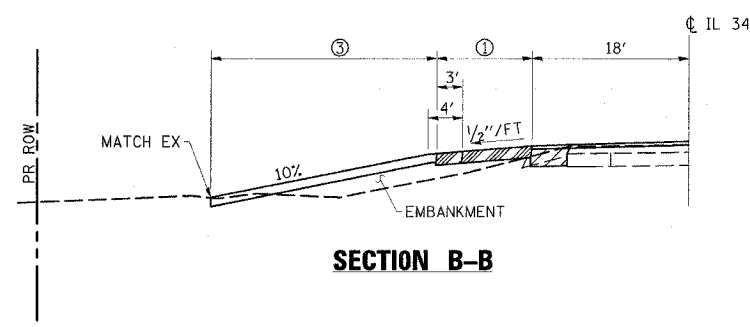
FE
STA 1647+94.0



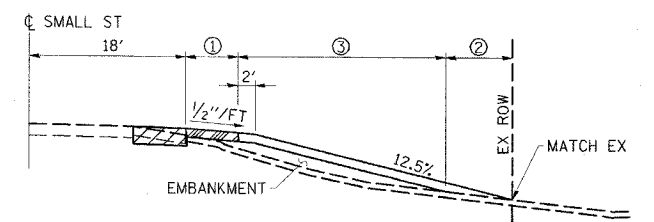
CE
STA 42+06.5



SECTION A-A



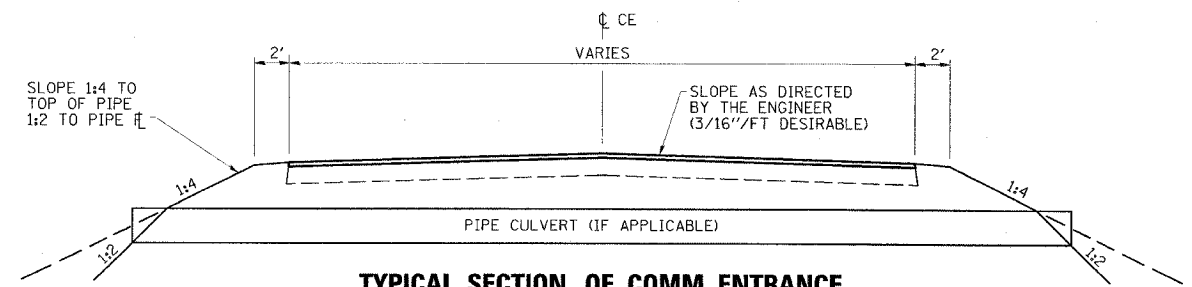
SECTION B-B



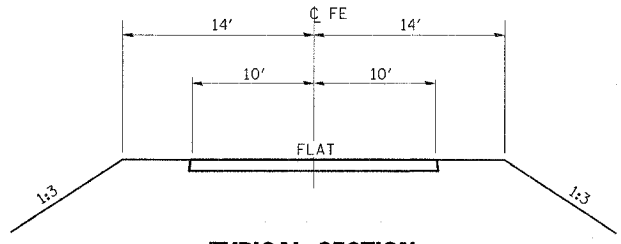
SECTION C-C

LEGEND

- ① CONSTRUCT HOT-MIX ASPHALT SHOULDER "FULL SHOULDER WIDTH" THROUGH ENTRANCE UNLESS OTHERWISE SHOWN ON THE PLANS OR AS DIRECTED BY THE ENGINEER.
- ② AGGREGATE TAPER FOR EXISTING GRAVEL SURFACE.
- ③ 6" AGGREGATE SURFACE COURSE FOR EXISTING GRAVEL SURFACE.
- ④ VARIABLE DEPTH HOT-MIX ASPHALT RESURFACING.
- ⑤ CONSTRUCT 6" CLASS D PATCH OVER TRENCH FOR CULVERT REMOVAL/INSTALLATION.



**TYPICAL SECTION OF COMM. ENTRANCE
&
METHOD OF CALCULATING PIPE LENGTH
(IF APPLICABLE)**



**TYPICAL SECTION
FIELD ENTRANCE**

MISCELLANEOUS DETAILS
FAP RTE 869 (IL 34)
SECTION (105A)B-1
SALINE COUNTY

ESCA
CONSULTANTS, INC.

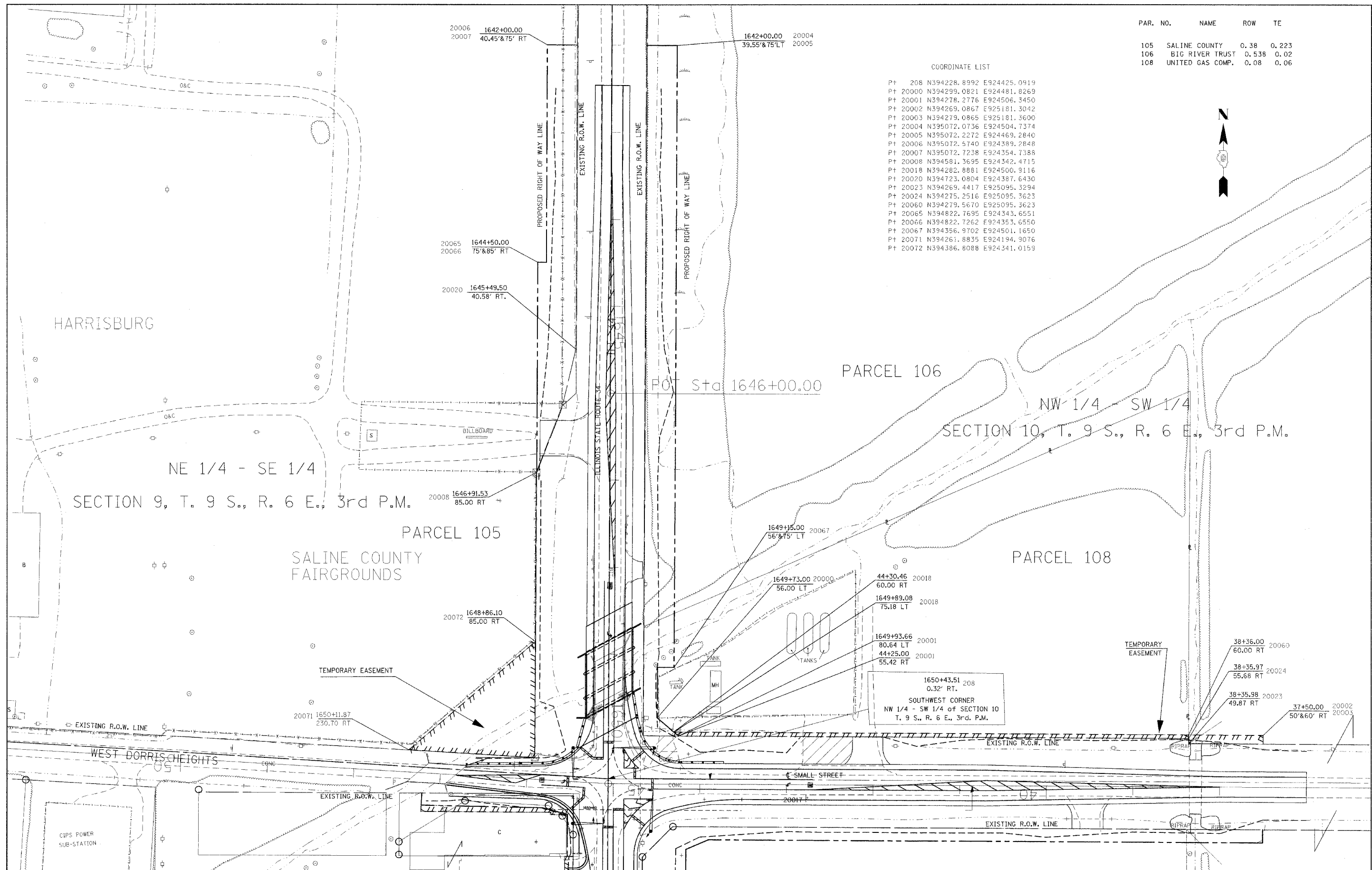
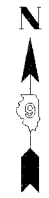
DESIGNED BY:	MTD	06/07
DRAWN BY:	DWH	06/07
CHECKED BY:	MTD	10/07
APPROVED BY:	RDP	03/08

PLOT DATE = DATE*
PLOT SCALE = SCALE*
REFERENCE = REF*

PAR. NO.	NAME	ROW	TE
105	SALINE COUNTY	0.38	0.223
106	BIG RIVER TRUST	0.538	0.02
108	UNITED GAS COMP.	0.08	0.06

COORDINATE LIST

Pt	208	N394228.8992	E924425.0919
Pt	20000	N394299.0821	E924481.8269
Pt	20001	N394278.2776	E924506.3450
Pt	20002	N394269.0867	E925181.3042
Pt	20003	N394279.0865	E925181.3600
Pt	20004	N395072.0736	E924504.7374
Pt	20005	N395072.2272	E924469.2840
Pt	20006	N395072.5740	E924389.2848
Pt	20007	N395072.7238	E924354.7388
Pt	20008	N394581.3695	E924342.4715
Pt	20018	N394282.8881	E924500.9116
Pt	20020	N394723.0804	E924387.6430
Pt	20023	N394269.4417	E925095.3294
Pt	20024	N394275.2516	E925095.3623
Pt	20060	N394279.5670	E925095.3623
Pt	20065	N394822.7695	E924343.6551
Pt	20066	N394822.7262	E924353.6550
Pt	20067	N394356.9702	E924501.1650
Pt	20071	N394261.8835	E924194.9076
Pt	20072	N394386.8088	E924341.0159



HARRISBURG

NE 1/4 - SE 1/4
SECTION 9, T. 9 S., R. 6 E., 3rd P.M.

PARCEL 105
SALINE COUNTY
FAIRGROUNDS

PARCEL 106
NW 1/4 SW 1/4
SECTION 10, T. 9 S., R. 6 E., 3rd P.M.

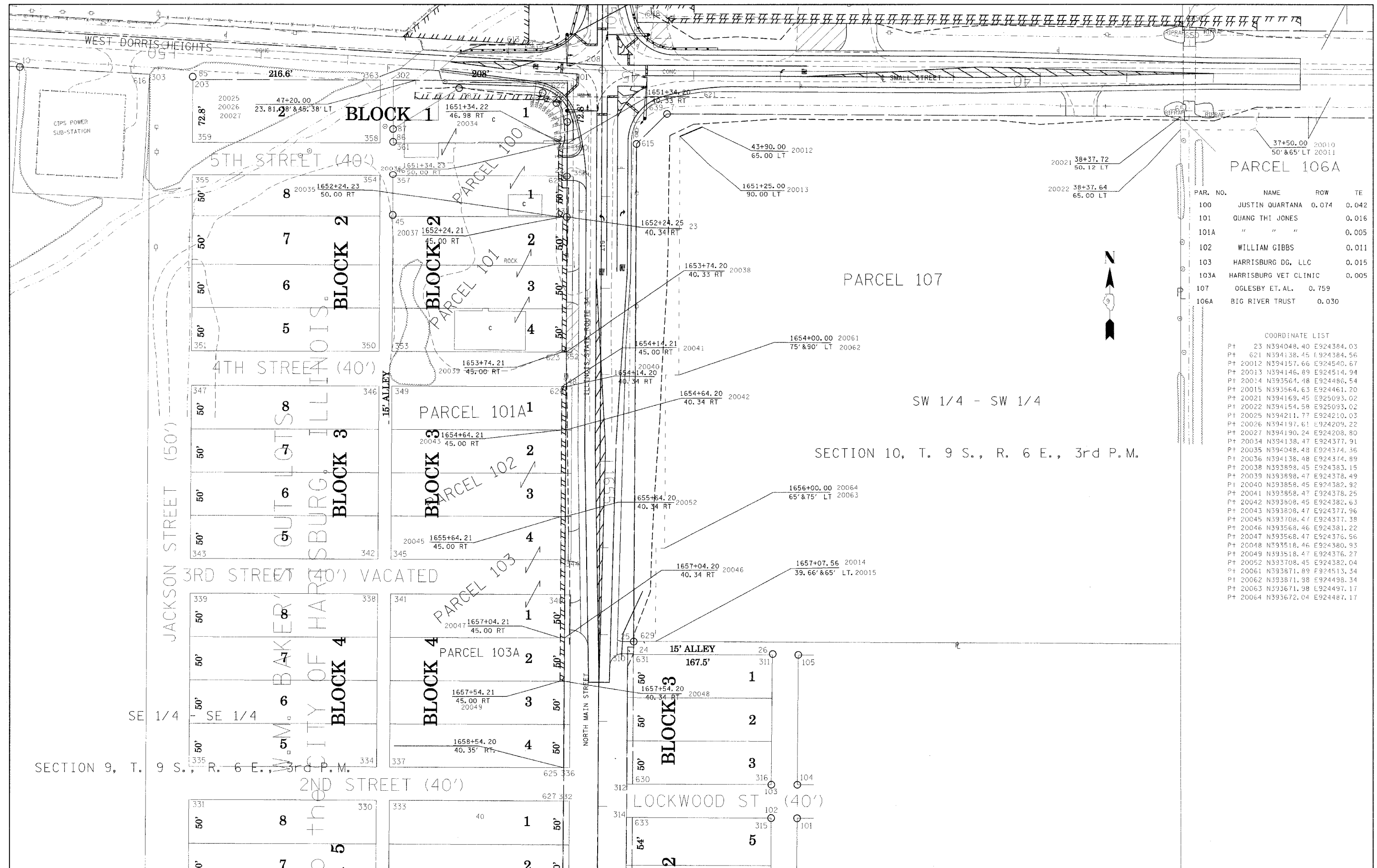
PARCEL 108

WEST DORRIS HEIGHTS

CIPS POWER
SUB-STATION

1650+43.51 208
0.32' RT.
SOUTHWEST CORNER
NW 1/4 - SW 1/4 of SECTION 10
T. 9 S., R. 6 E., 3rd P.M.

FILE NAME c:\projects\view\101505\landacquisition\	USER NAME = haisteadtw	DESIGNED -	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	RIGHT OF WAY PLANS			F.A. RTE. = 869	SECTION = (105A)B-1	COUNTY = SALINE	TOTAL SHEETS = 71	SHEET NO. = 29A
	PLOT SCALE = 50,0000 1/ IN.	DRAWN -	REVISED -		PROJECT =	JOB NO. = R99-011-07	FED. ROAD DIST. NO. =		ILLINOIS FED. AID PROJECT			
	PLOT DATE = 4/25/2008	CHECKED -	REVISED -		SCALE: 1"=50'	SHEET NO. OF SHEETS	STA. 1642+00.00 TO STA. 1650+50.00	CONTRACT NO. 98999				
		DATE	REVISED -									



PAR. NO.	NAME	ROW	TE
100	JUSTIN QUARTANA	0.074	0.042
101	QUANG THI JONES		0.016
101A	" "		0.005
102	WILLIAM GIBBS		0.011
103	HARRISBURG DG. LLC		0.015
103A	HARRISBURG VET CLINIC		0.005
107	OGLESBY ET. AL.	0.759	
106A	BIG RIVER TRUST	0.030	

COORDINATE LIST

Pt	23	N394048.40	E924384.03
Pt	621	N394138.45	E924384.56
Pt	20012	N394157.66	E924540.67
Pt	20013	N394146.89	E924514.94
Pt	20014	N393564.48	E924486.54
Pt	20015	N393564.63	E924461.20
Pt	20021	N394169.45	E925093.02
Pt	20022	N394154.58	E925093.02
Pt	20025	N394211.77	E924210.03
Pt	20026	N394197.61	E924209.22
Pt	20027	N394190.24	E924208.80
Pt	20034	N394138.47	E924377.91
Pt	20035	N394048.48	E924374.36
Pt	20036	N394138.48	E924374.89
Pt	20038	N393898.45	E924383.15
Pt	20039	N393898.47	E924378.49
Pt	20040	N393858.45	E924382.92
Pt	20041	N393858.47	E924378.25
Pt	20042	N393808.45	E924382.63
Pt	20043	N393808.47	E924377.96
Pt	20045	N393708.47	E924377.38
Pt	20046	N393569.46	E924381.22
Pt	20047	N393568.47	E924376.56
Pt	20048	N393518.46	E924380.93
Pt	20049	N393518.47	E924376.27
Pt	20052	N393708.45	E924382.04
Pt	20061	N393871.89	E924513.34
Pt	20062	N393871.98	E924498.34
Pt	20063	N393672.04	E924497.17
Pt	20064	N393672.04	E924487.17

SW 1/4 - SW 1/4

SECTION 10, T. 9 S., R. 6 E., 3rd P.M.

FILE NAME c:\projects\view\d90505\landacquisition\	USER NAME = holsteadw 901107.dwg	DESIGNED -	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	RIGHT OF WAY PLANS		F.A. RTE. 869	SECTION (105)A-B-1	COUNTY SALINE	TOTAL SHEETS 71	SHEET NO. 298
PLOT SCALE = 50.0000 1" = 50'	CHECKED -	REVISED -	REVISED -		PROJECT	JOB NO. R99-011-07	CONTRACT NO. 98999				
PLOT DATE = 4/25/2008	DATE -	REVISED -	REVISED -		SCALE: 1"=50'	SHEET NO. OF SHEETS	STA. 1650+50.00 TO STA. 1657+54.20	FED. ROAD DIST. NO.	ILLINOIS FED. AID PROJECT		

BENCHMARK: BM322-Chiseled square on top of SE Wingwall, SN 083-0041; Elev. 363.99

EXISTING STRUCTURE: SN 083-0041 was originally built in 1933 as SBI Rte 143, Section 105BC. Superstructure was replaced and substructure widened in 1976 as FA Rte 126, Section 105B-DR-4. The structure consists of a single span PPC Deck Beam superstructure supported on closed abutments. The closed abutments are founded on untreated timber piles. The bridge is 53'-5 3/4" bk. to bk. abutments on a 28°-20' right forward skew. The clear width between steel rails is 32'-6" and the out to out deck width is 33'-0".

Existing structure is to be removed and replaced. One lane of traffic will be maintained utilizing Stage Construction.

No salvage.

STATION 1649+21.25
BUILT 2008 BY
STATE OF ILLINOIS
FAP ROUTE 869 SECTION (105A)B-1
LOADING HS20-44
STR. NO. 083-0066

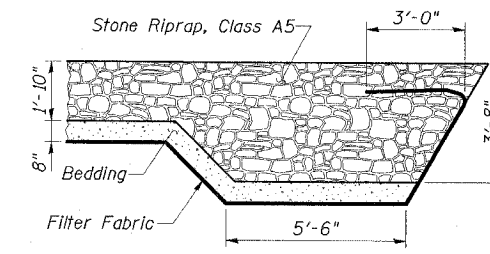
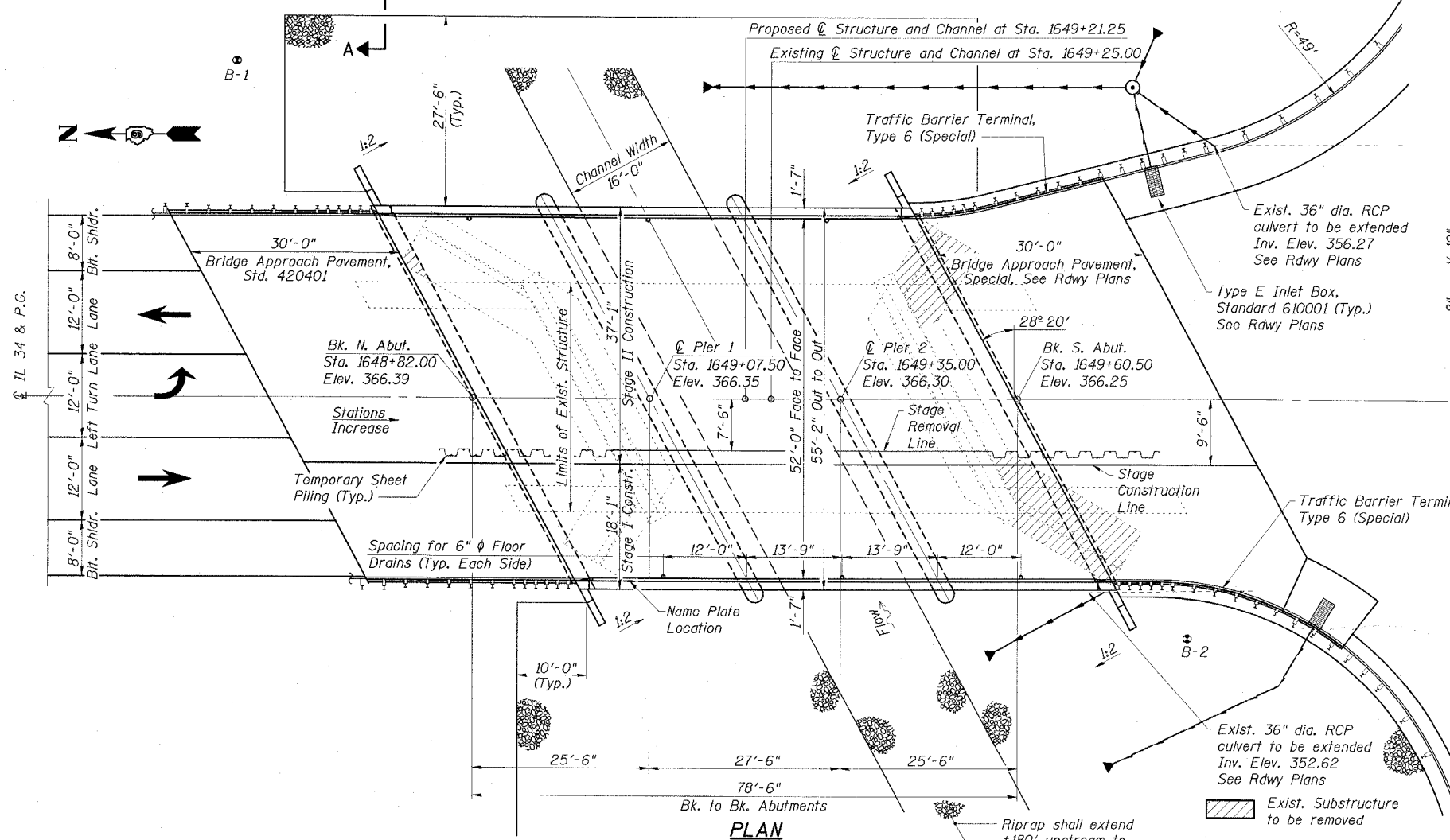
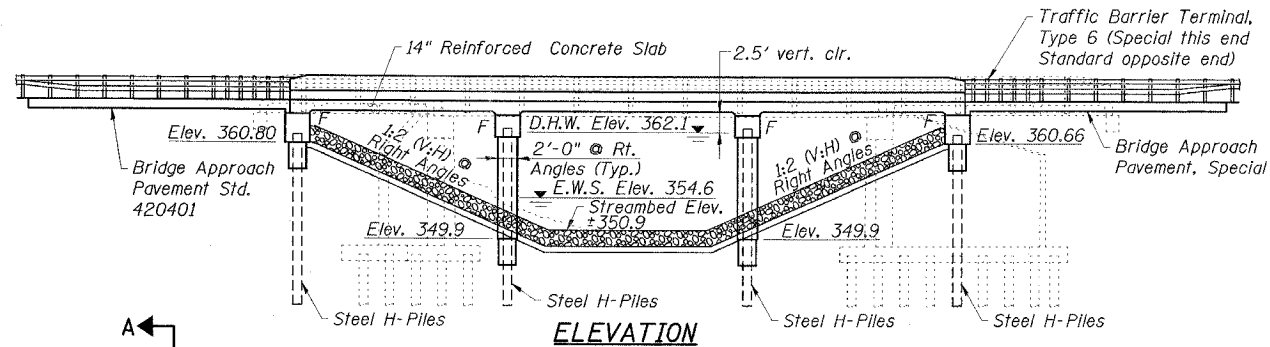
NAME PLATE
See Std. 515001

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

ROUTE NO.	SECTION	COUNTY	SHEETS	SHEET	SHEET NO.
FAP 869	#	SALINE	71	30	17 SHEETS
CONTRACT NO. 98999					*105A)B-1

STRUCTURE INDEX OF SHEETS

General Plan	Dwg. No. 1 of 17
General Data	Dwg. No. 2 of 17
Stage Construction Details	Dwg. No. 3 of 17
Temporary Concrete Barrier	Dwg. No. 4 of 17
Top of Slab Elevations	Dwg. No. 5 of 17
Top of North Approach Slab Elevations	Dwg. No. 6 of 17
Top of South Approach Slab Elevations	Dwg. No. 7 of 17
Superstructure	Dwg. No. 8 of 17
Superstructure Details	Dwg. No. 9-10 of 17
North Abutment	Dwg. No. 11 of 17
South Abutment	Dwg. No. 12 of 17
Pier 1	Dwg. No. 13 of 17
Pier 2	Dwg. No. 14 of 17
Bar Splicer Assembly Details	Dwg. No. 15 of 17
Steel H-Pile Details	Dwg. No. 16 of 17
Boring Logs	Dwg. No. 17 of 17



SECTION A-A

APPROVED
FOR STRUCTURAL ADEQUACY ONLY

Ralph E. Anderson
ENGINEER OF BRIDGES AND STRUCTURES

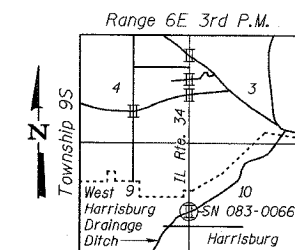


EXPIRES 11-30-08

Ralph E. Anderson
SIGNATURE

03-31-08
DATE

GENERAL PLAN
IL 34 OVER
WEST HARRISBURG DRAINAGE DITCH
FAP ROUTE 869 - SECTION (105A)B-1
SALINE COUNTY
STATION 1649+21.50
STRUCTURE NO. 083-0066



LOCATION SKETCH

DESIGN SCOUR ELEVATION TABLE

Design Scour Elevation (ft.)	N. Abut.	Pier 1	Pier 2	S. Abut.
	360.8	345.0	345.0	360.6

WATERWAY INFORMATION

Drainage Area = 5.43 Sq. Mi.		Exist. Low Grade Elev. = 365.86 Ft. @ Sta. 1636+00		Prop. Low Grade Elev. = 365.86 Ft. @ Sta. 1636+00	
Flood Yr.	Q C.F.S.	Opening (sq. ft.)	Nat. H.W.E.	Head (ft.)	Headwater El.
10	1680	330.6	333.4	361.0	1.1
50	2750	386.6	393.4	362.1	1.8
100	3230	406.9	416.5	362.5	2.1
500	4490	447.7	464.2	363.3	3.4

DESIGN SPECIFICATIONS

2002 AASHTO
LOADING HS20-44
Allow 50 psf for future wearing surface.

DESIGN STRESSES

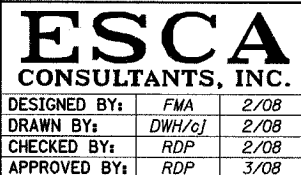
FIELD UNITS

f'c = 3,500 psi
fy = 60,000 psi (Reinf.)

SEISMIC DATA

Seismic Performance Category (SPC) = B
Bedrock Acceleration Coefficient (A) = 0.108g
Site Coefficient (S) = 1.2

PROFILE GRADE
(Along & Roadway)



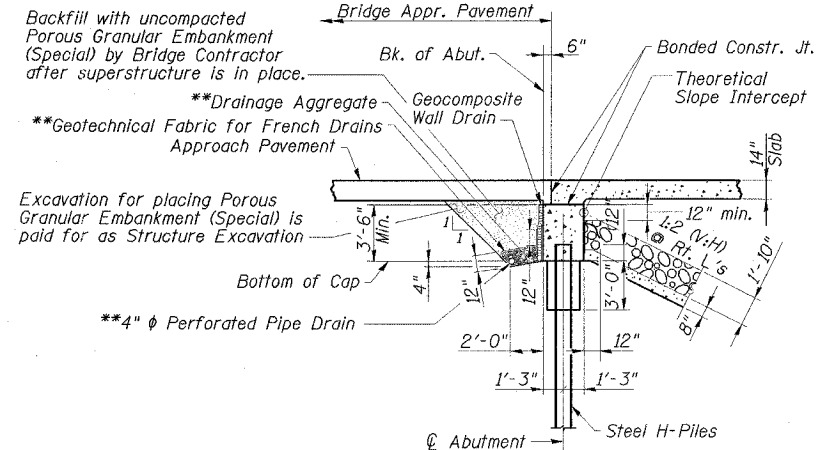
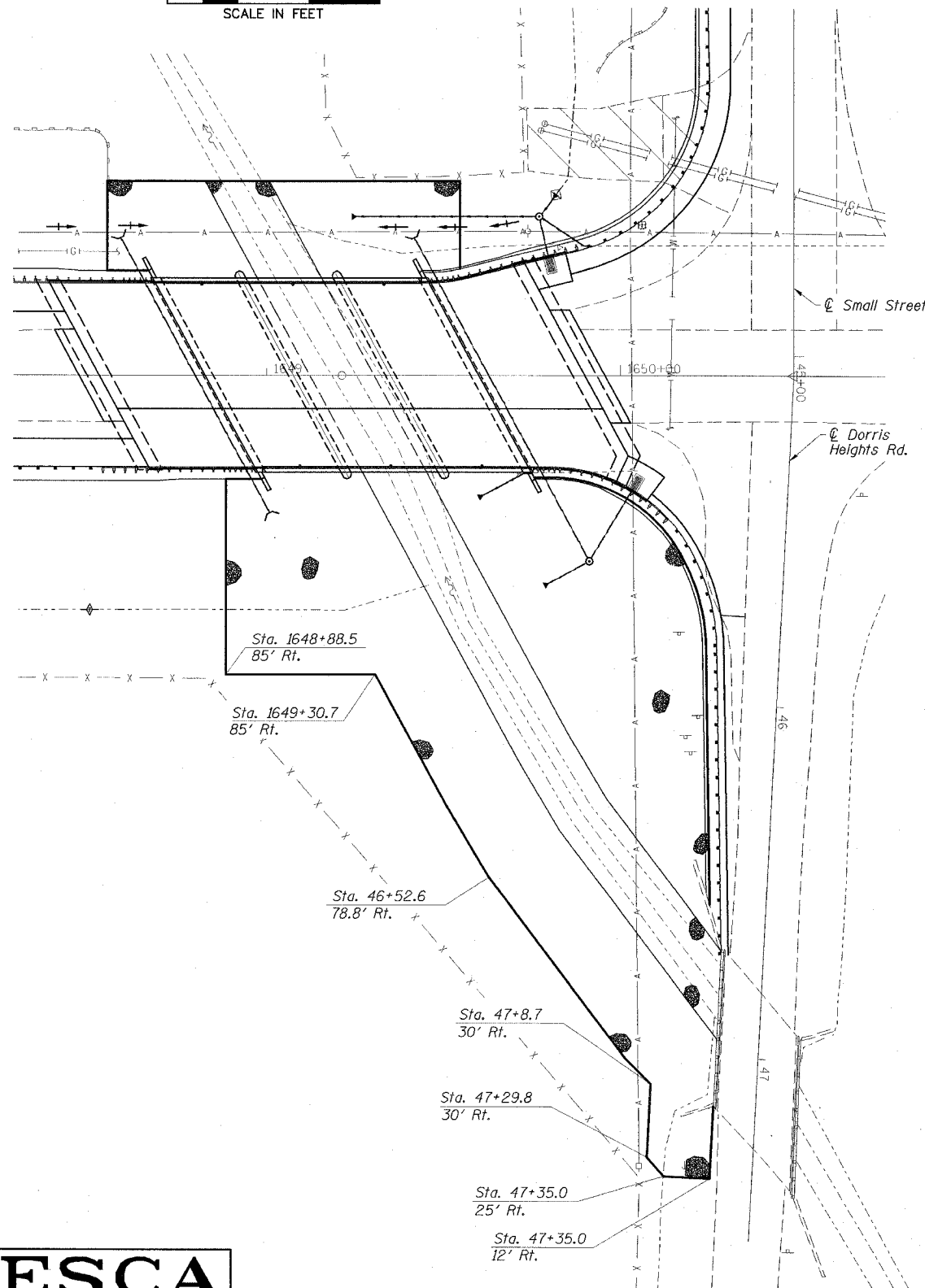
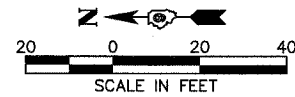
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DRAWN BY:	DWH/cj	2/08
CHECKED BY:	RDP	2/08
APPROVED BY:	RDP	3/08

10-Year Velocity Through Exist. Bridge = 5.1 fps 10-Year Velocity Through Prop. Bridge = 5.0 fps

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

ROUTE NO.	SECTION	COUNTY	SHEETS	SHEET NO.
FAP 869	#	SALINE	71	31
17 SHEETS				
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT-		
CONTRACT NO. 98999 * (105A)B-1				



SECTION THRU ABUTMENT
(Horizontal Dim. \odot Rt. L's)

Note: All drainage system components shall extend to 2'-0" from the end of each wingwall except an outlet pipe shall extend until intersecting with the side slopes. The pipes shall drain into conc. headwalls (See Article 601.05 of the Std. Spec's. and Hwy. Std. 601101).**

TOTAL BILL OF MATERIAL

ITEM	UNIT	SUPER	SUB	TOTAL
Porous Granular Embankment (Special)	Cu. Yd.		58	58
Stone Riprap, Class A5	Sq. Yd.		2500	2500
Filter Fabric	Sq. Yd.		2500	2500
Removal of Existing Structures	Each			1
Structure Excavation	Cu. Yd.		275	275
Floor Drains	Each	6		6
Concrete Structures	Cu. Yd.		192	192
Concrete Superstructure	Cu. Yd.	220		220
Bridge Deck Grooving	Sq. Yd.	310		310
Concrete Encasement	Cu. Yd.		14	14
Protective Coat	Sq. Yd.	495		495
Reinforcement Bars, Epoxy Coated	Pound	46,070	19,380	65,450
Bar Splicers	Each	140	88	228
Furnishing Steel Piles HPI0x42	Foot		882	882
Driving Piles	Foot		882	882
Test Pile Steel HPI0x42	Each		4	4
Temporary Sheet Piling	Sq. Ft.		625	625
Name Plates	Each	1		1
Geocomposite Wall Drain	Sq. Yd.		62	62
Pipe Underdrains for Structures 4"	Foot		192	192
Conduit Embedded in Structure, 2" Dia., Galvanized Steel	Foot	78		78
Underwater Structure Excavation Protection-Location 1	Each		1	1
Underwater Structure Excavation Protection-Location 2	Each		1	1
Asbestos Bearing Pad Removal	Each		22	22

GENERAL NOTES

- The Contractor shall make allowance for the deflection of forms, shrinkage and settlement of falsework, in addition to allowance for dead load deflection. Forms for deck slab shall be removed prior to placement of bridge approach pavement.
- Reinforcement bars shall conform to the requirements of ASTM A 706 Gr 60 (IL Modified). See Special Provisions.
- Reinforcement bars designated (E) shall be epoxy coated.
- The Contractor shall drive test piles to 110% of the nominal required bearing specified in production locations at substructures specified or approved by the Engineer before ordering the remainder of piles.
- Layout of the slope protection system may be varied to suit ground conditions in the field as directed by the Engineer.
- The Contractor is advised that the existing PPC Deck Beams are in a deteriorated condition with reduced load carrying capacity. It is the Contractor's responsibility to account for the condition of the beams when developing construction procedures for removal of the superstructure.
- If the Contractor's procedures for existing beam removal involves placement of heavy equipment on the existing deck beams a detailed procedure shall be submitted to the Engineer for approval. The procedure shall include calculations, sealed by an Illinois Licensed Structural Engineer, verifying the structural adequacy of the deck beams for the proposed loads. Cost included with Removal of Existing Structures.
- Excavation behind existing abutment walls shall be performed to balance front and back soil pressure before Stage I removal of the existing superstructure. The Contractor shall sawcut the upper portion of the existing abutment at the stage removal line before Stage I removal to ensure the remaining portion will not be prematurely damaged.
- The existing structural steel coating contains lead. The Contractor shall take appropriate precautions to deal with the presence of lead on this project.
- Slipforming of the parapets is not allowed.

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CHECKED BY:	RDP	2/08
APPROVED BY:	RDP	3/08

RIPRAP LAYOUT

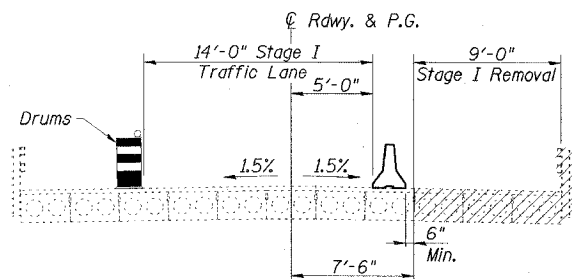
GENERAL DATA
IL 34 OVER
WEST HARRISBURG DRAINAGE DITCH
FAP ROUTE 869 - SECTION (105A)B-1
SALINE COUNTY
STATION 1649+21.50
STRUCTURE NO. 083-0066

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

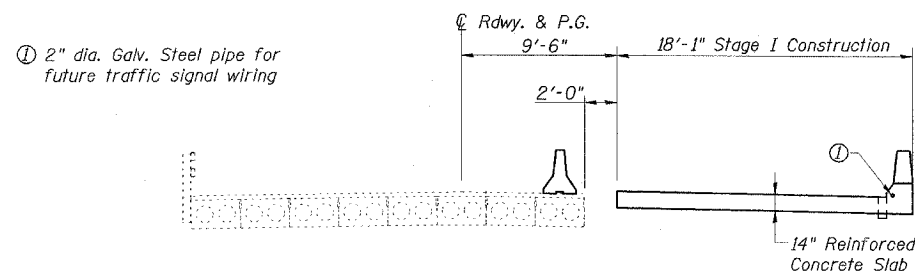
ROUTE NO.	SECTION	COUNTY	SHEET	SHEET NO.
FAP 869	#	SALINE	71	32
CONTRACT NO. 98999				*105A1B-1

STAGE CONSTRUCTION NOTES

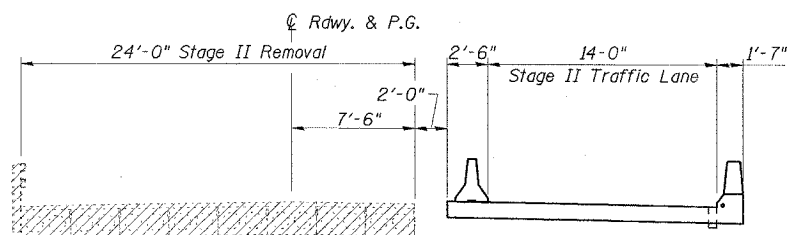
1. Hatched areas indicate removal.
2. All staging sections are looking South.
3. For quantities of Temporary Concrete Barrier see Roadway Plans.
4. The stage construction lines for the substructure units differ from the stage construction line for the superstructure. See details on the individual substructure sheets.



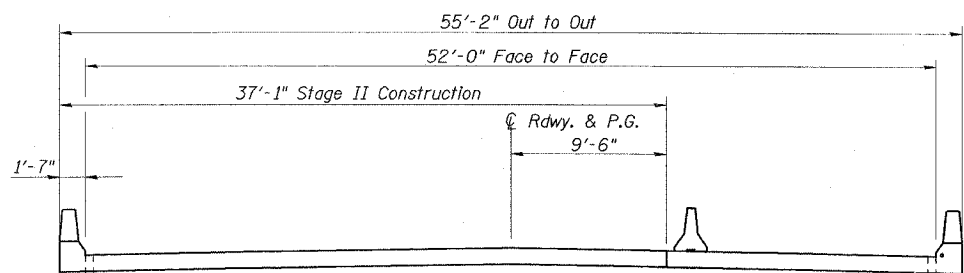
STAGE I REMOVAL



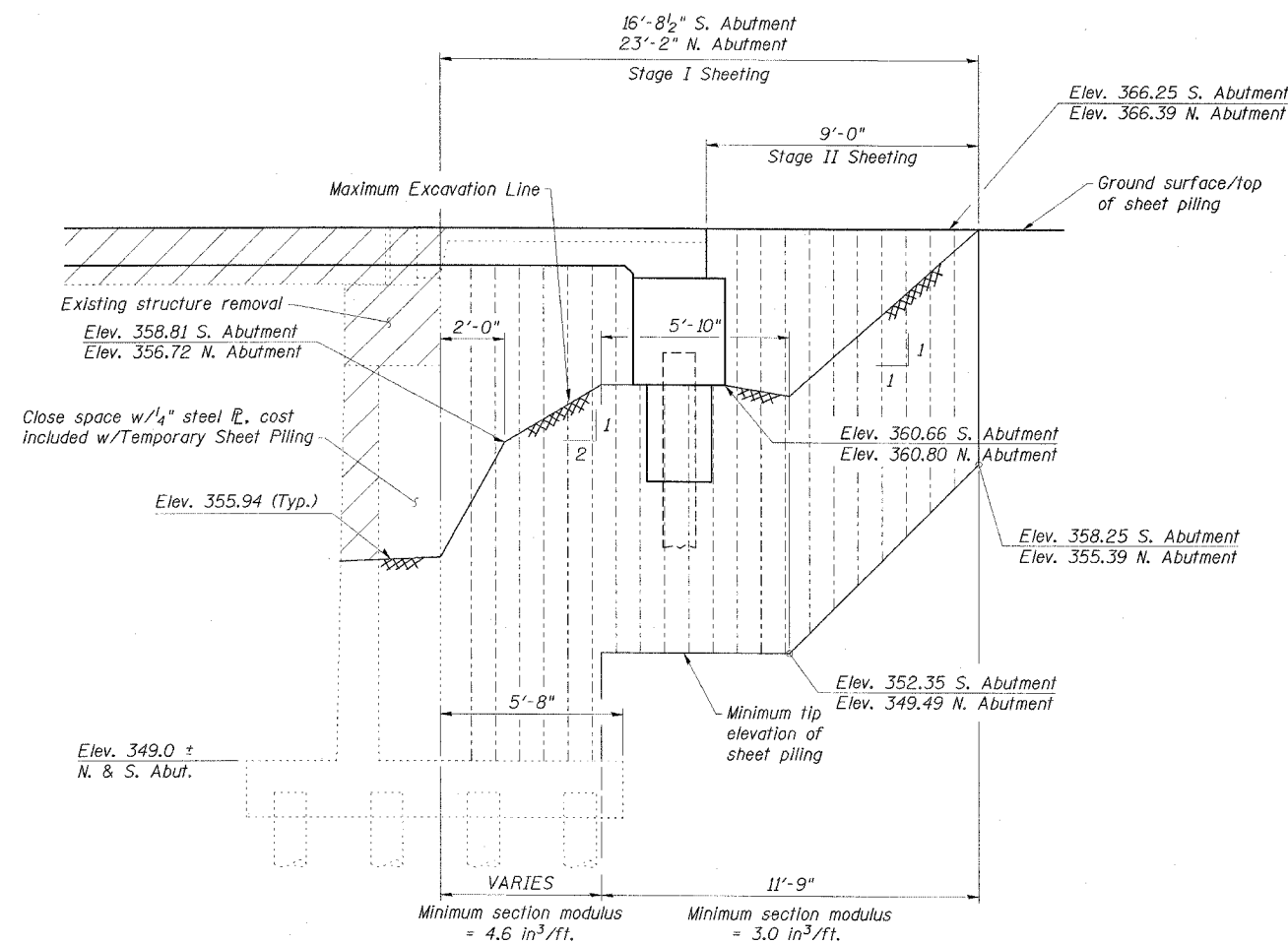
STAGE I CONSTRUCTION



STAGE II REMOVAL



STAGE II CONSTRUCTION



TEMPORARY SHEET PILING
(South Abutment shown; North Abutment similar)

TEMPORARY SHEET PILING NOTES

1. If the Contractor chooses to alter the temporary cantilevered sheet piling design requirements shown on the plans, a design submittal including plan details and calculations will be required for review and acceptance by the Engineer.
2. The Contractor shall connect the first sheet to the existing abutment wall to ensure stability of sheets driven to the top of the existing footing. This connection shall be reviewed and accepted by the Engineer and included in the cost for Temporary Sheet Piling.

STAGE CONSTRUCTION DETAILS
IL 34 OVER
WEST HARRISBURG DRAINAGE DITCH
FAP ROUTE 869 - SECTION (105A)B-1
SALINE COUNTY
STATION 1649+21.50
STRUCTURE NO. 083-0066

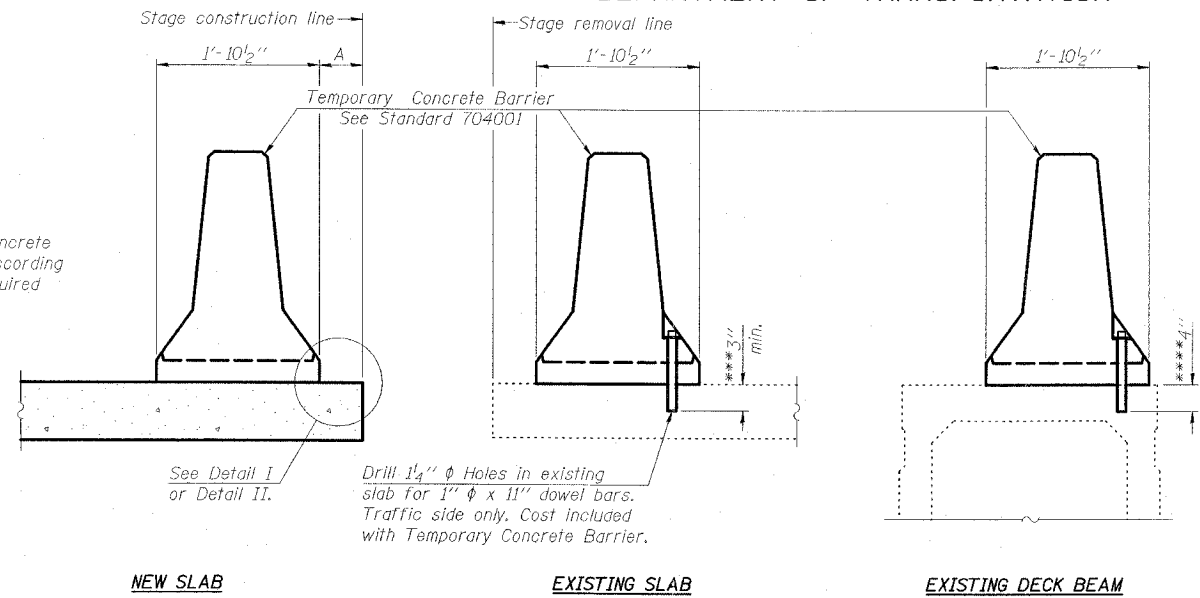
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DRAWN BY:	DWH	2/08
CHECKED BY:	RDP	2/08
APPROVED BY:	RDP	3/08

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

ROUTE NO.	SECTION	COUNTY	SHEETS	SHEET NO.
FAP 869	*	SALINE	71	33
ILLINOIS PROJECT NO.				(105A)B-1
CONTRACT NO. 98999				17 SHEETS

When "A" is 3'-6" or less, the temporary concrete barrier shall be anchored to the new slab according to Detail I or Detail II. No anchorage is required when "A" is greater than 3'-6".

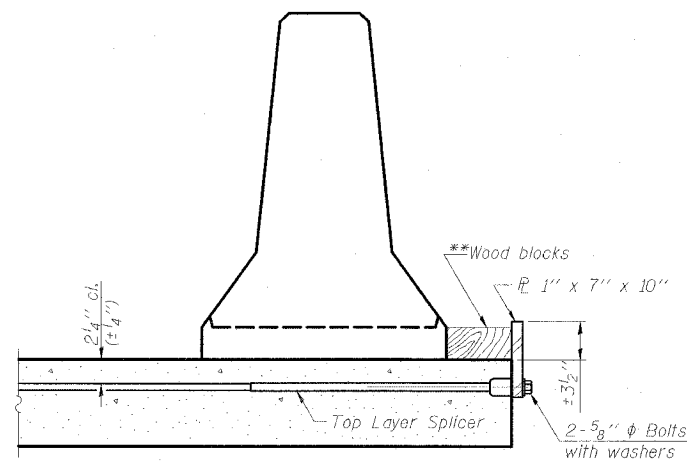


SECTIONS THRU SLAB OR DECK BEAM

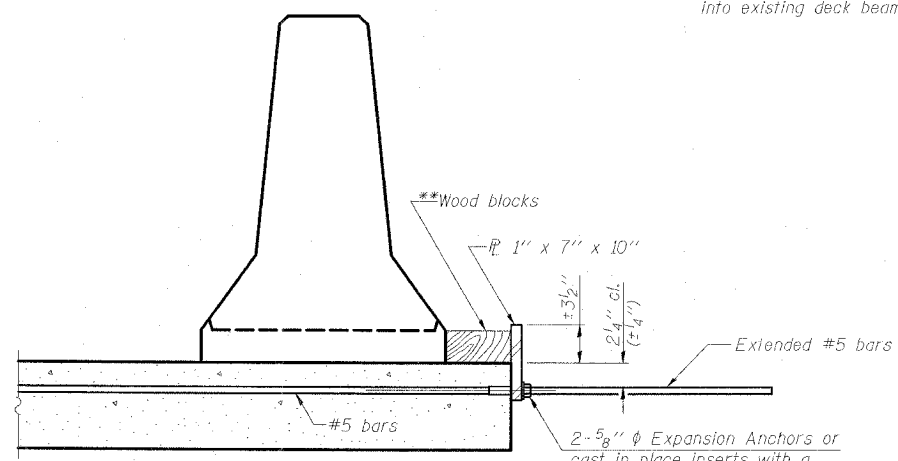
NOTES

- Detail I - With Bar Splicer or Couplers:
Connect one (1) 1"x7"x10" steel \bar{R} to the top layer of couplers with 2-5/8" ϕ bolts screwed to coupler at approximate \bar{C} of each barrier panel.
- Detail II - With Extended Reinforcement Bars:
Connect one (1) 1"x7"x10" steel \bar{R} to the concrete slab or concrete wearing surface with 2-5/8" ϕ Expansion Anchors or cast in place inserts spaced between the top layer of reinforcement at approximate \bar{C} of each barrier panel.
- Cost of anchorage is included with Temporary Concrete Barrier. The 1" x 7" x 10" plate shall not be removed until stage II construction forms and all reinforcement bars are in place and the concrete is ready to be placed.

***Dimension shown is minimum required embedment into concrete. If hot-mix asphalt wearing surface is present, minimum embedment shall be in addition to wearing surface depth.
****If existing deck beam is to remain in place after stage construction, embedment shall only be into wearing surface and not into existing deck beam concrete.

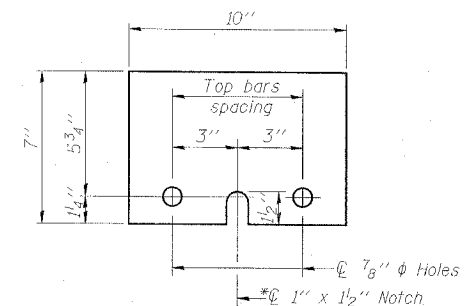


DETAIL I



DETAIL II

**Wood blocks may be omitted when required to provide minimum stage traffic lane width. When the wood blocks are omitted, the concrete barrier shall be in direct contact with the steel retainer plate.



STEEL RETAINER R 1" x 7" x 10"

* Required only with Detail II

TEMPORARY CONCRETE BARRIER
IL 34 OVER
WEST HARRISBURG DRAINAGE DITCH
FAP ROUTE 869 - SECTION (105A)B-1
SALINE COUNTY
STATION 1649+21.50
STRUCTURE NO. 083-0066

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DESIGNED BY:	FMA	2/08
DRAWN BY:	DWH	2/08
CHECKED BY:	RDP	2/08
APPROVED BY:	RDP	3/08

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET
FAP 869	*	SALINE	71	34

SHEET NO. 5
17 SHEETS

CONTRACT NO. 98999 * (05A)B-1
CL ROADWAY & PROFILE GRADE

INSIDE FACE OF WEST PARAPET

WEST EDGE OF ROADWAY

STAGE CONSTRUCTION JOINT

Location	Station	Offset	Theoretical Grade Elevations	Theoretical Grade Elevations Adjusted For Dead Load Deflection
N. End of Slab	1648+96.59	+26.00	365.92	365.92
CL N. Abut.	1648+97.44	+26.00	365.92	365.92
a	1649+07.44	+26.00	365.90	365.91
b	1649+17.44	+26.00	365.88	365.88
CL Pier 1	1649+21.52	+26.00	365.87	365.87
c	1649+31.52	+26.00	365.85	365.86
d	1649+41.52	+26.00	365.84	365.84
CL Pier 2	1649+49.02	+26.00	365.82	365.82
e	1649+59.02	+26.00	365.81	365.81
f	1649+69.02	+26.00	365.79	365.79
CL S. Abut	1649+73.10	+26.00	365.78	365.78
S. End of Slab	1649+73.95	+26.00	365.78	365.78

Location	Station	Offset	Theoretical Grade Elevations	Theoretical Grade Elevations Adjusted For Dead Load Deflection
N. End of Slab	1648+92.27	+18.00	366.09	366.09
CL N. Abut.	1648+93.13	+18.00	366.09	366.09
a	1649+03.13	+18.00	366.07	366.08
b	1649+13.13	+18.00	366.05	366.06
CL Pier 1	1649+17.21	+18.00	366.05	366.05
c	1649+27.21	+18.00	366.03	366.03
d	1649+37.21	+18.00	366.01	366.01
CL Pier 2	1649+44.71	+18.00	366.00	366.00
e	1649+54.71	+18.00	365.98	365.99
f	1649+64.71	+18.00	365.96	365.97
CL S. Abut	1649+68.79	+18.00	365.95	365.95
S. End of Slab	1649+69.64	+18.00	365.95	365.95

Location	Station	Offset	Theoretical Grade Elevations	Theoretical Grade Elevations Adjusted For Dead Load Deflection
N. End of Slab	1648+87.69	+9.50	366.23	366.23
CL N. Abut.	1648+88.54	+9.50	366.23	366.23
a	1648+98.54	+9.50	366.21	366.22
b	1649+08.54	+9.50	366.20	366.20
CL Pier 1	1649+12.62	+9.50	366.19	366.19
c	1649+22.62	+9.50	366.17	366.17
d	1649+32.62	+9.50	366.15	366.15
CL Pier 2	1649+40.12	+9.50	366.14	366.14
e	1649+50.12	+9.50	366.12	366.13
f	1649+60.12	+9.50	366.10	366.11
CL S. Abut	1649+64.20	+9.50	366.10	366.10
S. End of Slab	1649+65.05	+9.50	366.09	366.09

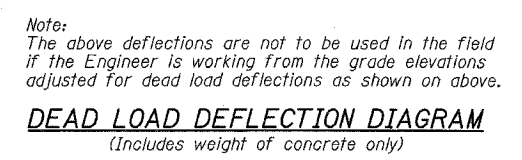
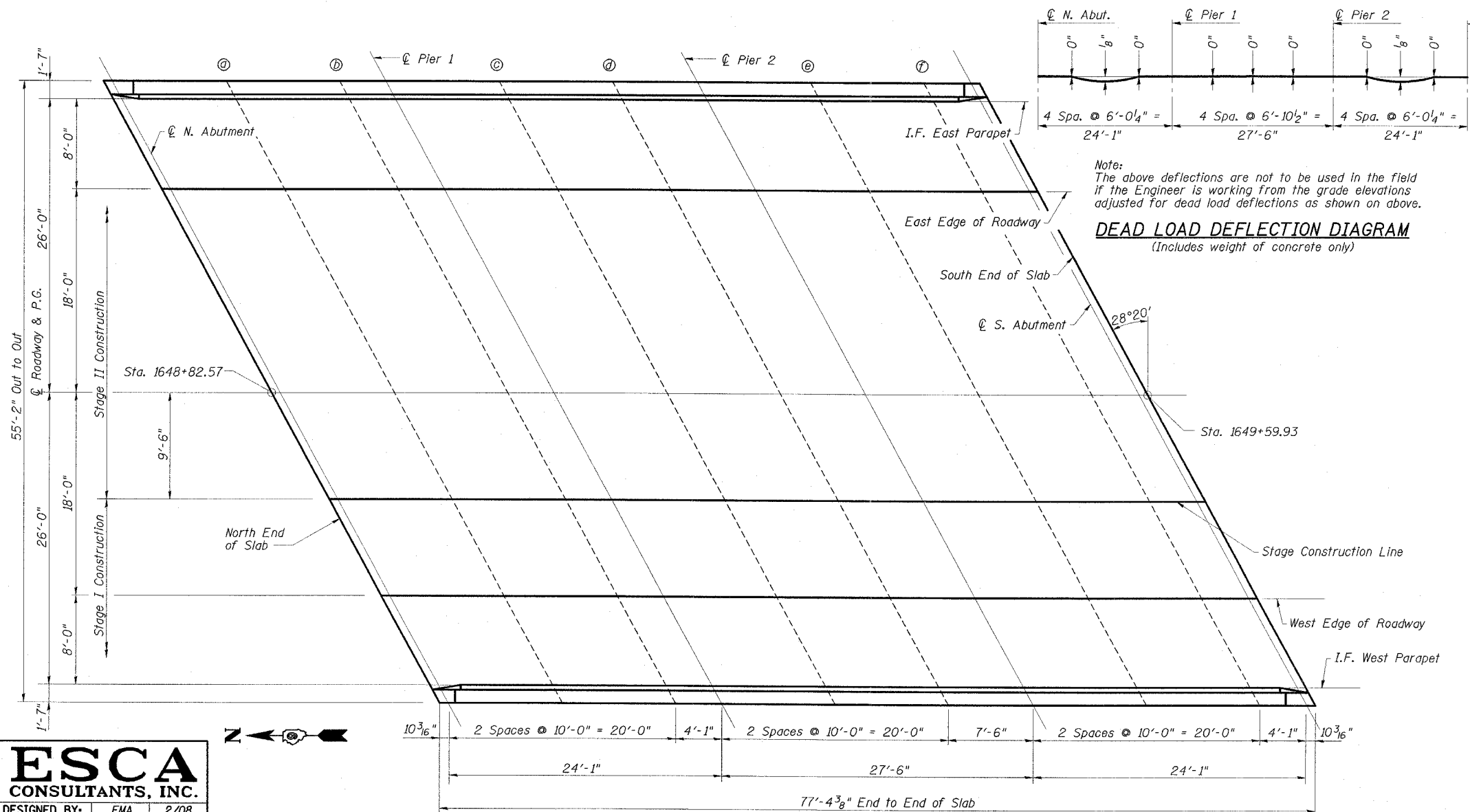
Location	Station	Offset	Theoretical Grade Elevations	Theoretical Grade Elevations Adjusted For Dead Load Deflection
N. End of Slab	1648+82.57	0.00	366.39	366.39
CL N. Abut.	1648+83.42	0.00	366.39	366.39
a	1648+93.42	0.00	366.37	366.38
b	1649+03.42	0.00	366.35	366.36
CL Pier 1	1649+07.50	0.00	366.35	366.35
c	1649+17.50	0.00	366.33	366.33
d	1649+27.50	0.00	366.31	366.31
CL Pier 2	1649+35.00	0.00	366.30	366.30
e	1649+45.00	0.00	366.28	366.28
f	1649+55.00	0.00	366.26	366.27
CL S. Abut	1649+59.08	0.00	366.25	366.25
S. End of Slab	1649+59.93	0.00	366.25	366.25

EAST EDGE OF ROADWAY

Location	Station	Offset	Theoretical Grade Elevations	Theoretical Grade Elevations Adjusted For Dead Load Deflection
N. End of Slab	1648+72.86	-18.00	366.13	366.13
CL N. Abut.	1648+73.71	-18.00	366.13	366.13
a	1648+83.71	-18.00	366.11	366.12
b	1648+93.71	-18.00	366.09	366.09
CL Pier 1	1648+97.79	-18.00	366.08	366.08
c	1649+07.79	-18.00	366.06	366.07
d	1649+17.79	-18.00	366.05	366.05
CL Pier 2	1649+25.29	-18.00	366.03	366.03
e	1649+35.29	-18.00	366.01	366.02
f	1649+45.29	-18.00	366.00	366.00
CL S. Abut	1649+49.37	-18.00	365.99	365.99
S. End of Slab	1649+50.23	-18.00	365.99	365.99

INSIDE FACE OF EAST PARAPET

Location	Station	Offset	Theoretical Grade Elevations	Theoretical Grade Elevations Adjusted For Dead Load Deflection
N. End of Slab	1648+68.55	-26.00	365.97	365.97
CL N. Abut.	1648+69.40	-26.00	365.97	365.97
a	1648+79.40	-26.00	365.95	365.96
b	1648+89.40	-26.00	365.93	365.93
CL Pier 1	1648+93.48	-26.00	365.92	365.92
c	1649+03.48	-26.00	365.91	365.91
d	1649+13.48	-26.00	365.89	365.89
CL Pier 2	1649+20.98	-26.00	365.87	365.87
e	1649+30.98	-26.00	365.86	365.86
f	1649+40.98	-26.00	365.84	365.84
CL S. Abut	1649+45.06	-26.00	365.83	365.83
S. End of Slab	1649+45.91	-26.00	365.83	365.83



TOP OF SLAB ELEVATIONS
IL 34 OVER
WEST HARRISBURG DRAINAGE DITCH
FAP ROUTE 869 - SECTION (105A)B-1
SALINE COUNTY
STATION 1649+21.50
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ESCA
CONSULTANTS, INC.

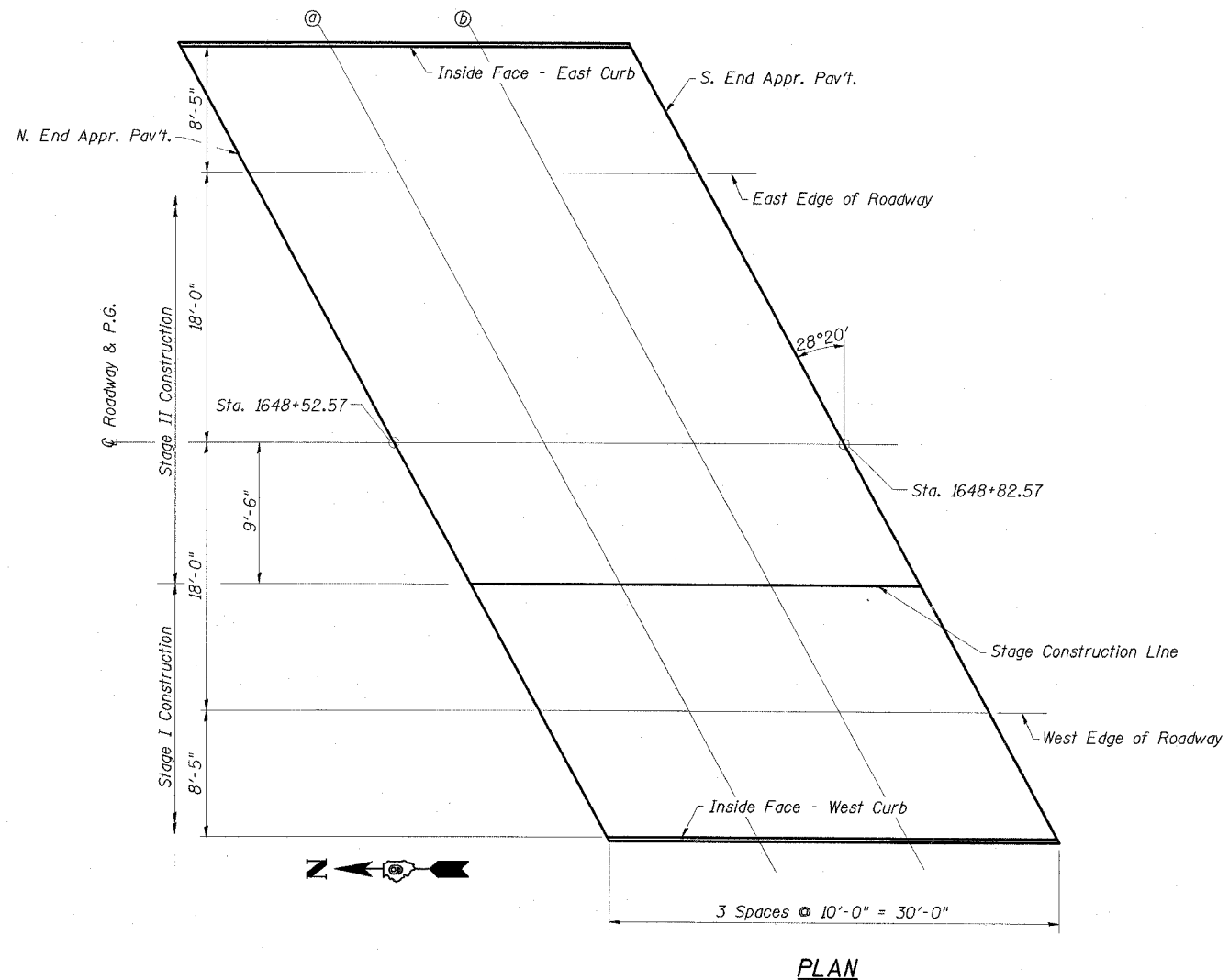
DESIGNED BY:	FMA	2/08
DRAWN BY:	DWH/oj	2/08
CHECKED BY:	RDP	2/08
APPROVED BY:	RDP	3/08

PLAN

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

ROUTE NO.	SECTION	COUNTY	SHEET	SHEET NO.
FAP 869	*	SALINE	71	35
CONTRACT NO. 98999				*105A1B-1

17 SHEETS



INSIDE FACE - WEST CURB

Location	Station	Offset	Theoretical Grade Elevations
N. End Appr. Pav't	1648+66.81	+26.42	365.96
a	1648+76.81	+26.42	365.94
b	1648+86.81	+26.42	365.93
S. End Appr. Pav't	1648+96.81	+26.42	365.91

CL ROADWAY & PROFILE GRADE

Location	Station	Offset	Theoretical Grade Elevations
N. End Appr. Pav't	1648+52.57	0.00	366.45
a	1648+62.57	0.00	366.43
b	1648+72.57	0.00	366.41
S. End Appr. Pav't	1648+82.57	0.00	366.39

WEST EDGE OF ROADWAY

Location	Station	Offset	Theoretical Grade Elevations
N. End Appr. Pav't	1648+62.27	+18.00	366.15
a	1648+72.27	+18.00	366.13
b	1648+82.27	+18.00	366.11
S. End Appr. Pav't	1648+92.27	+18.00	366.09

EAST EDGE OF ROADWAY

Location	Station	Offset	Theoretical Grade Elevations
N. End Appr. Pav't	1648+42.86	-18.00	366.18
a	1648+52.86	-18.00	366.16
b	1648+62.86	-18.00	366.15
S. End Appr. Pav't	1648+72.86	-18.00	366.13

STAGE CONSTRUCTION JOINT

Location	Station	Offset	Theoretical Grade Elevations
N. End Appr. Pav't	1648+57.69	+9.50	366.29
a	1648+67.69	+9.50	366.27
b	1648+77.69	+9.50	366.25
S. End Appr. Pav't	1648+87.69	+9.50	366.23

INSIDE FACE - EAST CURB

Location	Station	Offset	Theoretical Grade Elevations
N. End Appr. Pav't	1648+38.32	-26.42	366.01
a	1648+48.32	-26.42	366.00
b	1648+58.32	-26.42	365.98
S. End Appr. Pav't	1648+68.32	-26.42	365.96

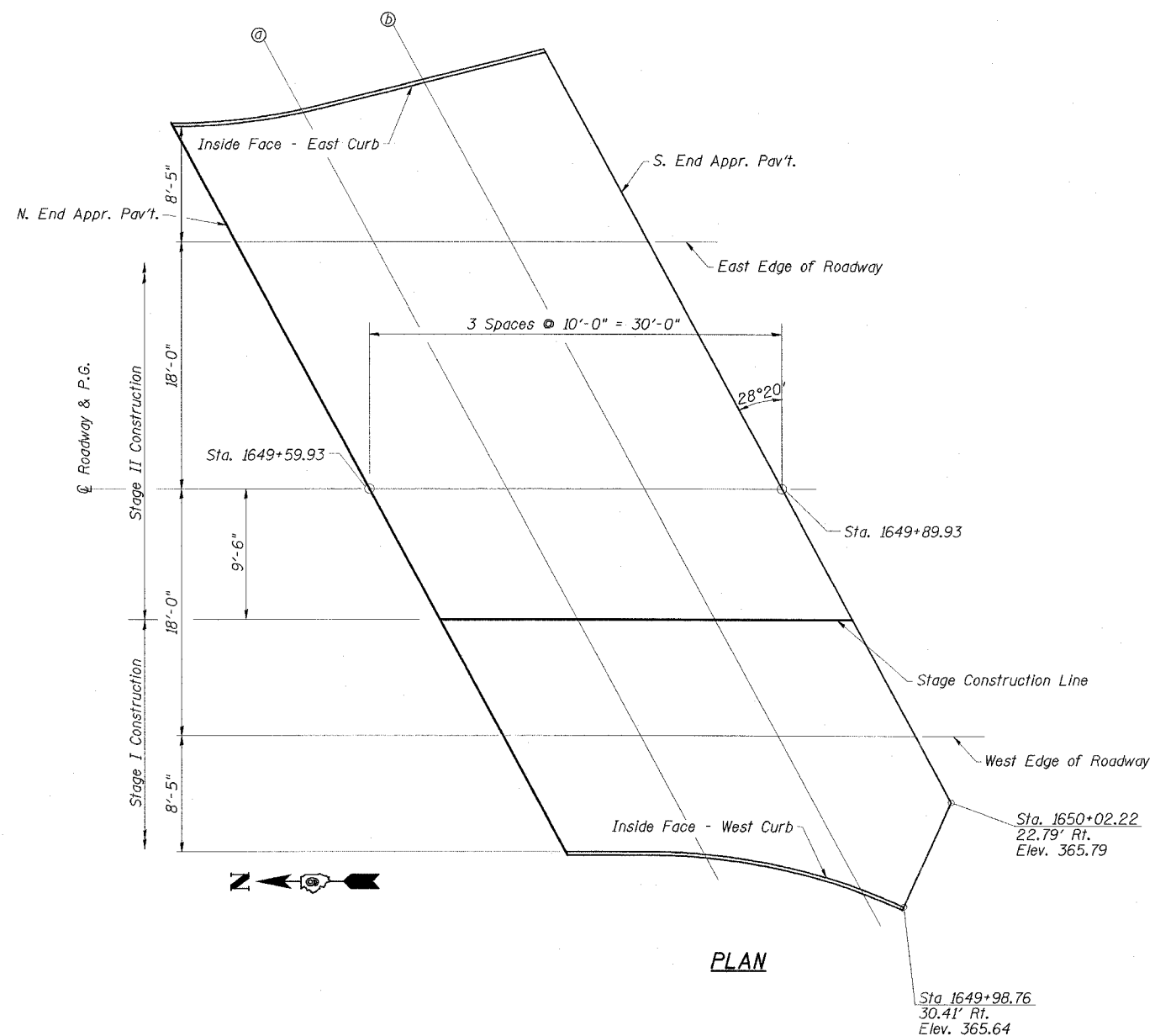
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DRAWN BY:	DWH/cj	2/08
CHECKED BY:	RDP	2/08
APPROVED BY:	RDP	3/08

TOP OF NORTH APPROACH
SLAB ELEVATIONS
IL 34 OVER
WEST HARRISBURG DRAINAGE DITCH
FAP ROUTE 869 - SECTION (105A)B-1
SALINE COUNTY
STATION 1649+21.50
STRUCTURE NO. 083-0066

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

ROUTE NO.	SECTION	COUNTY	SHEET NO.	SHEET NO.
FAP 869	*	SALINE	71	36
17 SHEETS				
FED. ROAD DIST. NO.	ALLIANCE	FED. AID PROJECT		
CONTRACT NO. 98999			*(105A)B-1	



INSIDE FACE - WEST CURB

Location	Station	Offset	Theoretical Grade Elevations
N. End Appr. Pav't	1649+74.18	+26.42	365.77
a	1649+84.27	+26.59	365.75
b	1649+95.64	+29.13	365.67

CL ROADWAY & PROFILE GRADE

Location	Station	Offset	Theoretical Grade Elevations
N. End Appr. Pav't	1649+59.93	0.00	366.25
a	1649+69.93	0.00	366.23
b	1649+79.93	0.00	366.22
S. End Appr. Pav't	1649+89.93	0.00	366.20

WEST EDGE OF ROADWAY

Location	Station	Offset	Theoretical Grade Elevations
N. End Appr. Pav't	1649+69.64	+18.00	365.95
a	1649+79.64	+18.00	365.93
b	1649+89.64	+18.00	365.92
S. End Appr. Pav't	1649+99.64	+18.00	365.90

EAST EDGE OF ROADWAY

Location	Station	Offset	Theoretical Grade Elevations
N. End Appr. Pav't	1649+50.23	-18.00	365.99
a	1649+60.23	-18.00	365.97
b	1649+70.23	-18.00	365.95
S. End Appr. Pav't	1649+80.23	-18.00	365.93

STAGE CONSTRUCTION JOINT

Location	Station	Offset	Theoretical Grade Elevations
N. End Appr. Pav't	1649+65.05	+9.50	366.09
a	1649+75.05	+9.50	366.08
b	1649+85.05	+9.50	366.06
S. End Appr. Pav't	1649+95.05	+9.50	366.04

INSIDE FACE - EAST CURB

Location	Station	Offset	Theoretical Grade Elevations
N. End Appr. Pav't	1649+45.69	-26.42	365.82
a	1649+55.13	-27.45	365.78
b	1649+63.95	-29.64	365.72
S. End Appr. Pav't	1649+72.76	-31.85	365.66

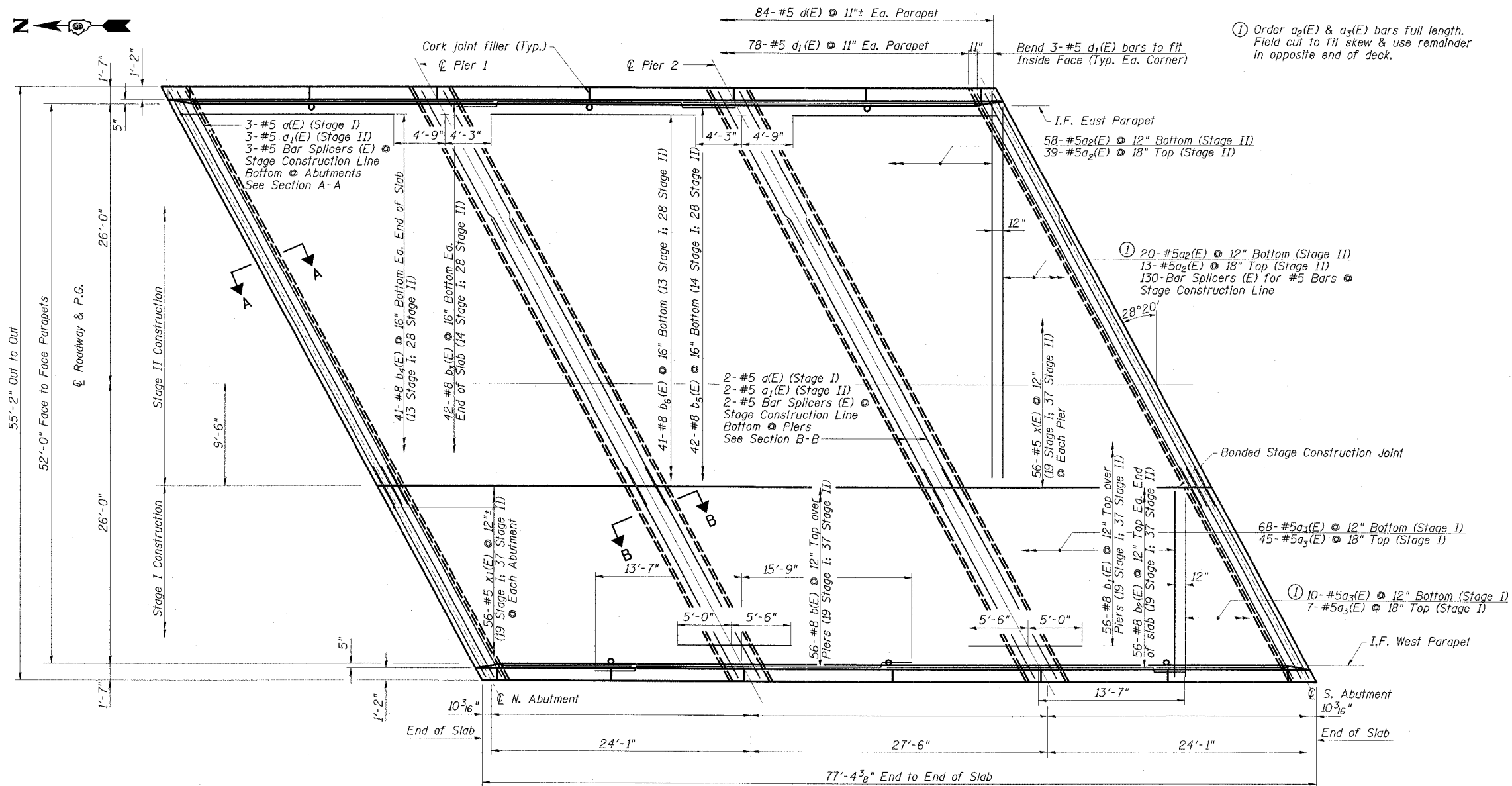
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DRAWN BY:	DWH/cj	2/08
CHECKED BY:	RDP	2/08
APPROVED BY:	RDP	3/08

TOP OF SOUTH APPROACH
SLAB ELEVATIONS
IL 34 OVER
WEST HARRISBURG DRAINAGE DITCH
FAP ROUTE 869 - SECTION (105A)B-1
SALINE COUNTY
STATION 1649+21.50
STRUCTURE NO. 083-0066

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

ROUTE NO.	SECTION	COUNTY	SHEET NO.	SHEET NO.
FAP 869	*	SALINE	71	37
FED. ROAD DIST. NO.				ILLINOIS FED. AID PROJECT
CONTRACT NO. 98999				(105A)B-1



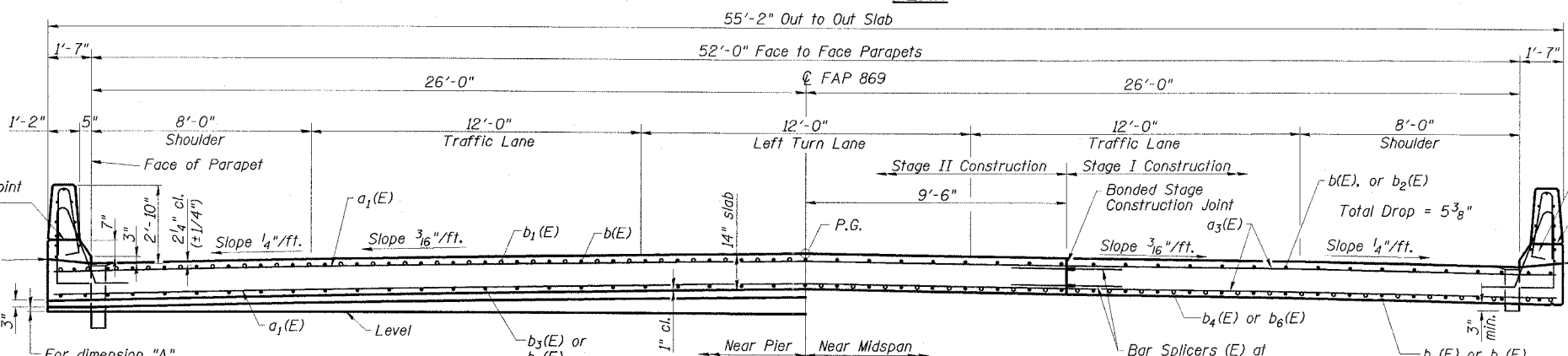
① Order a₂(E) & a₃(E) bars full length. Field cut to fit skew & use remainder in opposite end of deck.

- NOTES**
1. Bars indicated thus: 32 x 4-#5 etc. indicates 32 lines of bars with 4 lengths per line.
 2. See Dwg. Nos. 9 & 10 of 17 for Superstructure Details, Bill of Material, parapet reinforcement, and sections.

Min. Bar Lap

#4	1'-4"
#5	1'-10"
#8	3'-5" Bottom 3'-11" Top

PLAN



CROSS SECTION
(Looking South)

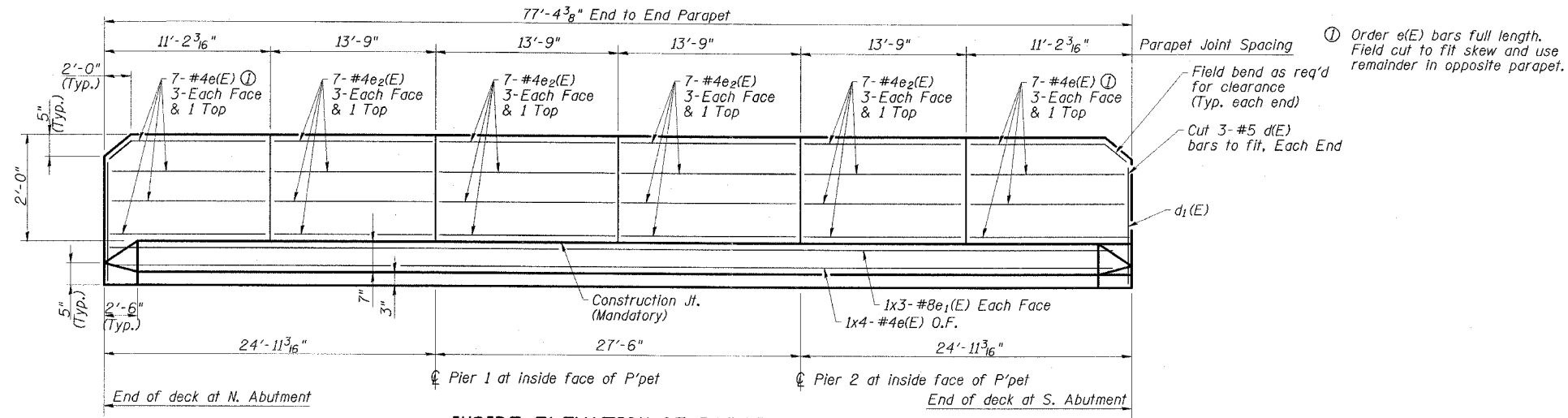
SUPERSTRUCTURE
IL 34 OVER
WEST HARRISBURG DRAINAGE DITCH
FAP ROUTE 869 - SECTION (105A)B-1
SALINE COUNTY
STATION 1649+21.50
STRUCTURE NO. 083-0066

ESCA
CONSULTANTS, INC.

DESIGNED BY:	FMA	2/08
DRAWN BY:	DH/JC/cj	2/08
CHECKED BY:	RDP	2/08
APPROVED BY:	RDP	3/08

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

ROUTE NO.	SECTION	COUNTY	DATE	SHEET NO.
FAP 869	*	SALINE	71	38
SHEET NO. 9 17 SHEETS				
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		
CONTRACT NO. 98999		*(105A)B-1		

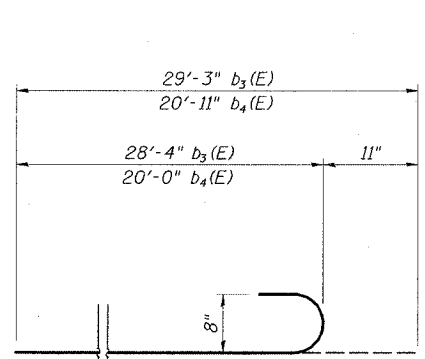


INSIDE ELEVATION OF PARAPET
(Looking East at East Parapet; West Parapet similar)

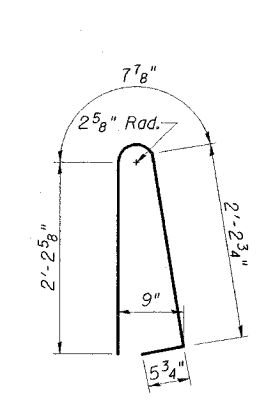
**SUPERSTRUCTURE
BILL OF MATERIAL**

Bar	No.	Size	Length	Shape	
a(E)	10	#5	41'-9"	—	
a ₁ (E)	10	#5	20'-2"	—	
a ₂ (E)	130	#5	36'-9"	—	
a ₃ (E)	130	#5	17'-9"	—	
b(E)	112	#8	29'-4"	—	
b ₁ (E)	112	#8	10'-6"	—	
b ₂ (E)	112	#8	14'-2"	—	
b ₃ (E)	84	#8	29'-3"	—	
b ₄ (E)	82	#8	20'-11"	—	
b ₅ (E)	42	#8	27'-6"	—	
b ₆ (E)	41	#8	19'-0"	—	
d(E)	168	#5	5'-10"	—	
d ₁ (E)	168	#5	8'-2"	—	
e(E)	22	#4	21'-0"	—	
e ₁ (E)	12	#8	28'-0"	—	
e ₂ (E)	56	#4	13'-6"	—	
x(E)	112	#5	7'-0"	—	
x ₁ (E)	112	#5	5'-2"	—	
Reinforcement Bars, Epoxy Coated				Pound	46,070
Concrete Superstructure				Cu. Yd.	220
Bar Splicers				Each	140

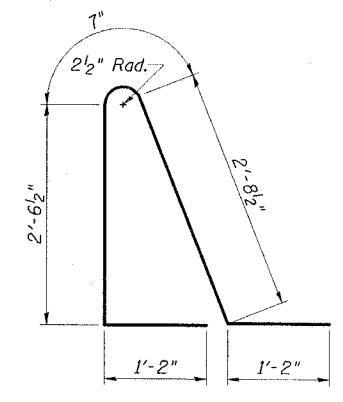
Name Plate to be mounted on inside face of west parapet. See Dwg. No. 1 of 17.
Bars indicated thus: 1x3-#8 etc. indicates 1 line of bars w/3 lengths per line.



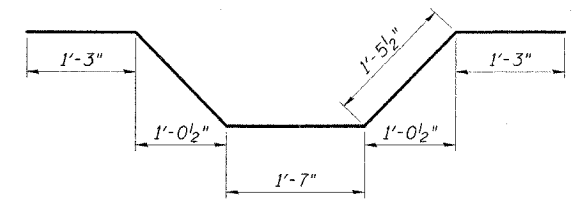
BARS b₃(E) & b₄(E)



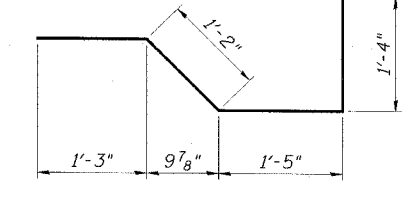
BAR d(E)



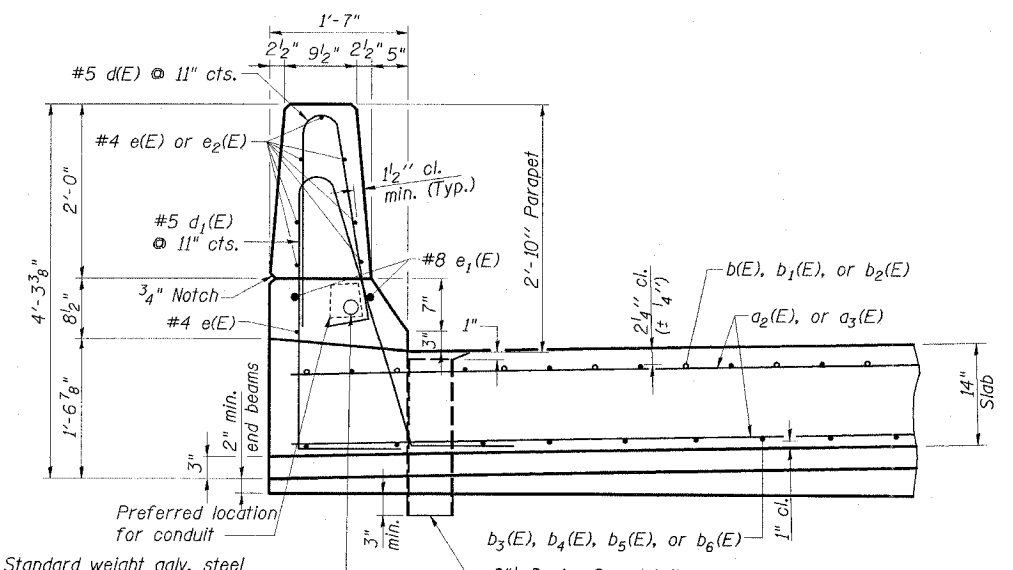
BAR d₁(E)



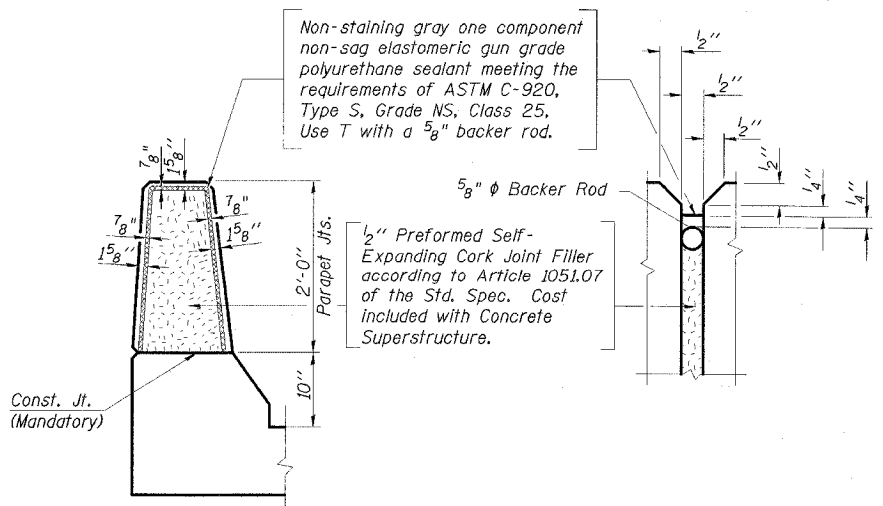
BAR x(E)



BAR x₁(E)



SECTION THRU PARAPET



PARAPET JOINT DETAILS

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APPROVED BY:	RDP	3/08

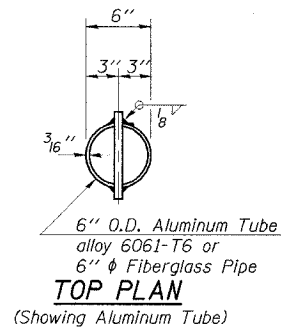
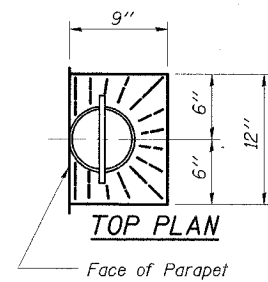
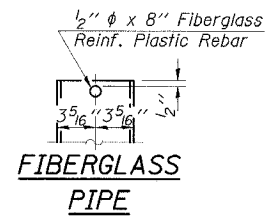
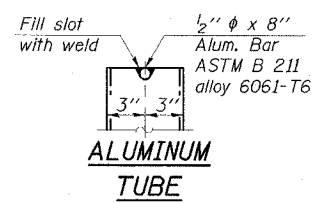
2" Standard weight galv. steel conduit (West Parapet only)
Provide minimum clearance of 1" between conduit and all reinforcement

SUPERSTRUCTURE DETAILS
IL 34 OVER
WEST HARRISBURG DRAINAGE DITCH
FAP ROUTE 869 - SECTION (105A)B-1
SALINE COUNTY
STATION 1649+21.50
STRUCTURE NO. 083-0066

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

ROUTE NO.	SECTION	COUNTY	SHEETS	SHEET NO.
FAP 869	*	SALINE	71	39
FED. ROAD EST. NO.				ILLINOIS
CONTRACT NO. 98999				(105A)B-1

17 SHEETS

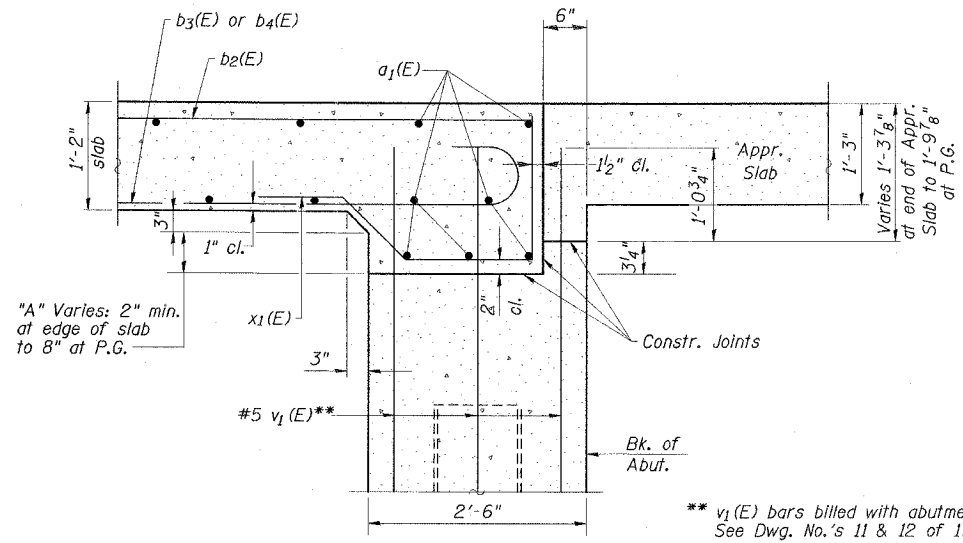


FLOOR DRAIN DETAILS

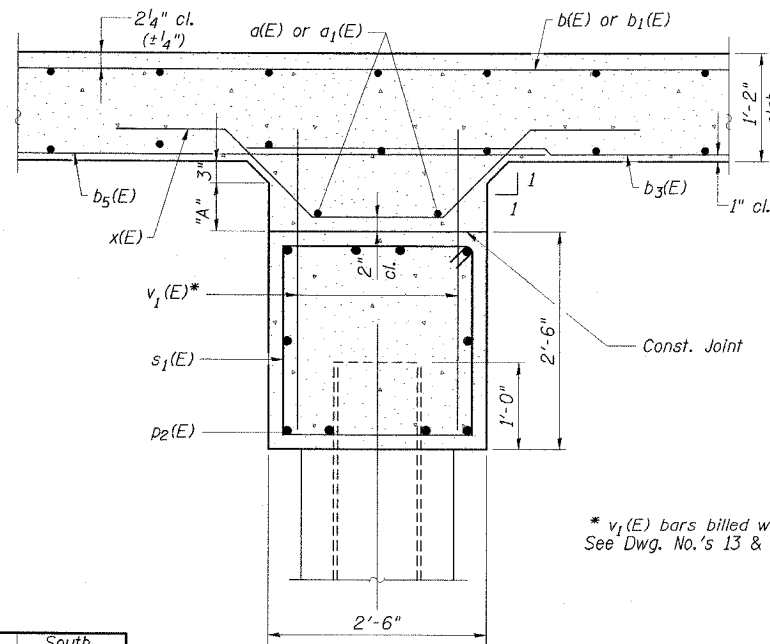
Notes:

Fiberglass pipe shall conform to ASTM D2996, with short-time rupture strength hoop tensile stress of 30,000 p.s.i. minimum. The surface of the Fiberglass pipe shall be free of bond inhibiting agents.

The exterior surfaces of the Fiberglass Floor Drains shall be cleaned and given a washcoat pretreatment in accordance with Steel Structures Painting Council's Spec. SSPC-SPI & SSPC-Paint 27 prior to painting with a vinyl enamel coat. The color shall be light grey Munsell No. 10Y 7/1. Painting of the Fiberglass Floor Drains will not be required when the exterior surfaces of the furnished drains are coated by the manufacturer with a pigment that matches the color of the concrete slab.



SECTION A-A



SECTION B-B

DIMENSION "A"

	North Abutment	Pier 1	Pier 2	South Abutment
West edge of superstructure	2"	2"	2"	2"
West edge of roadway	4 3/8"	4 3/8"	4 3/8"	4 3/8"
© Roadway & P.G.	8"	8"	8"	8"
East edge of roadway	4 7/8"	4 7/8"	4 7/8"	4 7/8"
East edge of superstructure	2 5/8"	2 5/8"	2 5/8"	2 5/8"

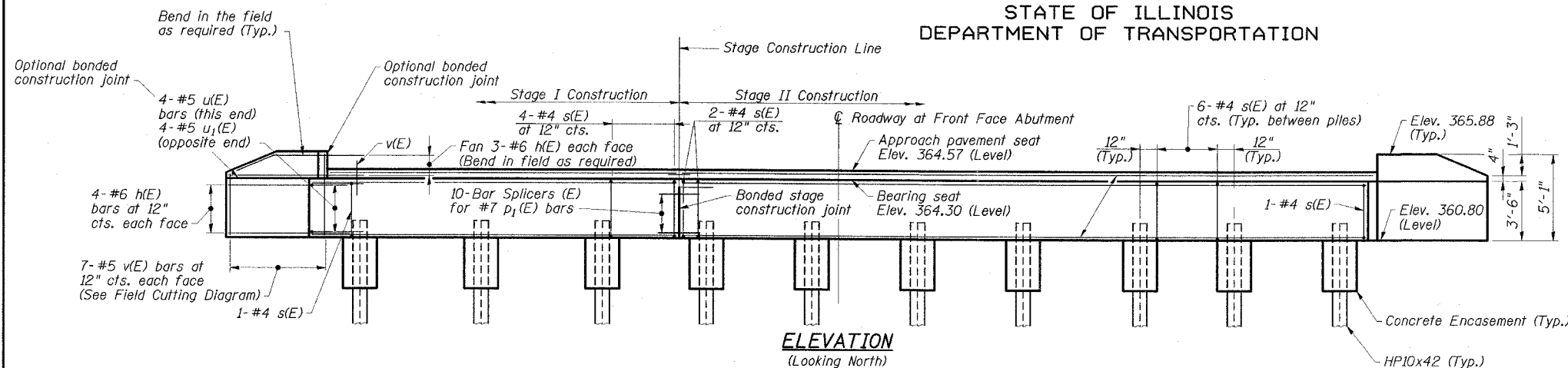
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DRAWN BY: DWH 2/08
CHECKED BY: RDP 2/08
APPROVED BY: RDP 3/08

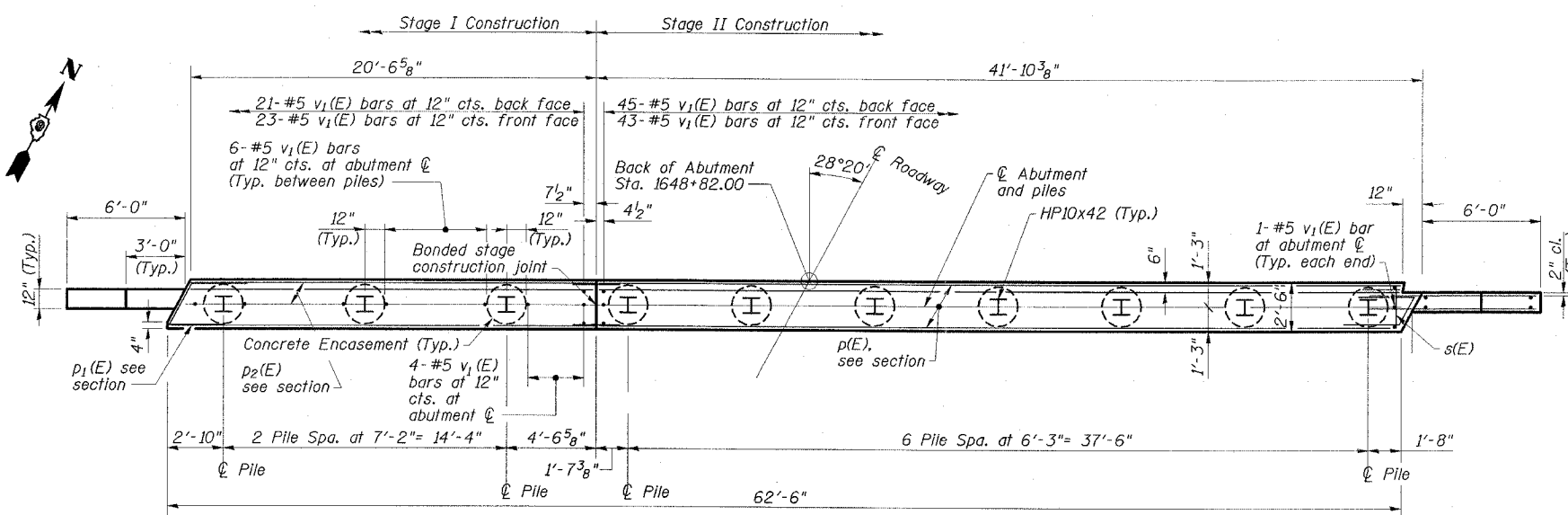
SUPERSTRUCTURE DETAILS
IL 34 OVER
WEST HARRISBURG DRAINAGE DITCH
FAP ROUTE 869 - SECTION (105A)B-1
SALINE COUNTY
STATION 1649+21.50
STRUCTURE NO. 083-0066

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

ROUTE NO.	SECTION	COUNTY	MILE	SHEET	SHEET NO. 11 17 SHEETS
FAP 869	*	SALINE	71	40	
FED. ROAD DIST. NO.		ILLINOIS	FED. AID PROJECT-		CONTRACT NO. 98999 *(105A)B-1



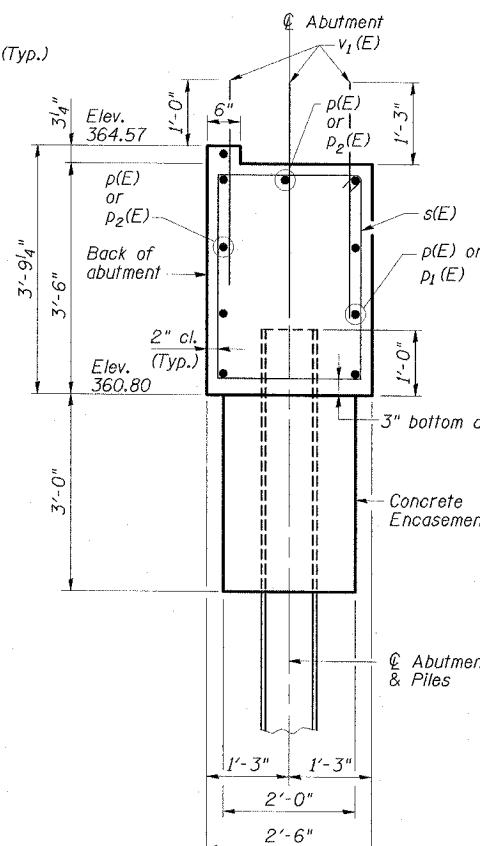
ELEVATION
(Looking North)



PLAN

MIN. BAR LAP
#5 1'-10"

NOTES
1. For pile details and concrete encasement details see Dwg. No. 16 of 17.



SECTION THRU NORTH ABUTMENT
(Horizontal dimensions at right angles)

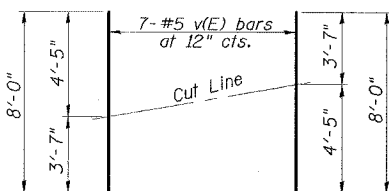
**NORTH ABUTMENT
BILL OF MATERIAL**

Bar	No.	Size	Length	Shape
h(E)	28	#6	8'-0"	—
p(E)	10	#7	40'-7"	—
p1(E)	4	#7	21'-4"	—
p2(E)	6	#7	20'-4"	—
s(E)	112	#4	11'-0"	□
u(E)	4	#5	8'-0"	┌
u1(E)	4	#5	7'-5"	┌
v(E)	14	#5	8'-0"	—
v1(E)	187	#5	3'-6"	—
Reinforcement Bars, Epoxy Coated		Pound	3280	
Concrete Structures		Cu. Yd.	23	
Structure Excavation		Cu. Yd.	100	
Furnishing Steel Piles HP10x42		Foot	225	
Driving Piles		Foot	225	
Test Pile Steel HP10x42		Each	1	
Porous Granular Embankment (Special)		Cu. Yd.	29	
Bar Splicers		Each	10	
Concrete Encasement		Cu. Yd.	3.5	
Geocomposite Wall Drain		Sq. Yd.	31	
Pipe Underdrains for Structures, 4"		Foot	89	

Note: Field cut p(E) & p1(E) bars as required.

PILE DATA

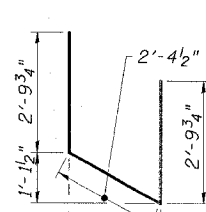
Pile Type & Size: Steel HP10x42
Nominal Required Bearing: 335 kips
Allowable Resistance Available: 111 kips
Estimated Pile Length: 25'
No. of Production Piles: 9
No. of Test Piles: 1



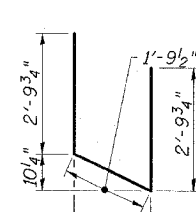
BAR v(E)

FIELD CUTTING DIAGRAM

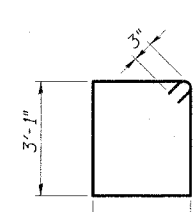
Order v(E) full length. Cut as shown and use remainder of bars in opposite face.



BAR u(E)



BAR u1(E)



BAR s(E)

BAR BENDING DETAILS

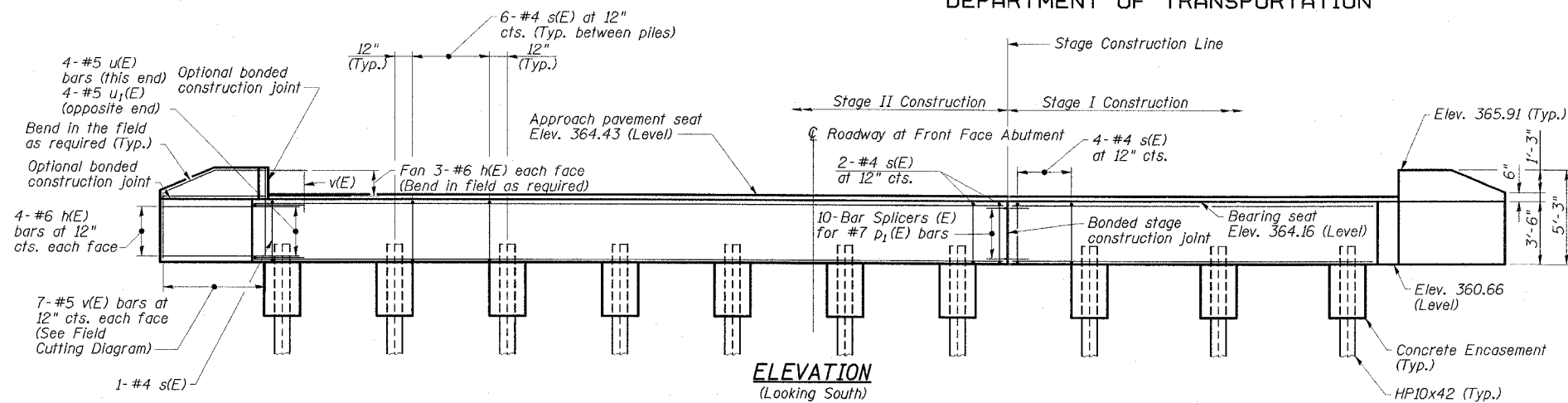
ESCA
CONSULTANTS, INC.

DESIGNED BY:	FMA	2/08
DRAWN BY:	DWH/JPC	2/08
CHECKED BY:	RDP	2/08
APPROVED BY:	RDP	3/08

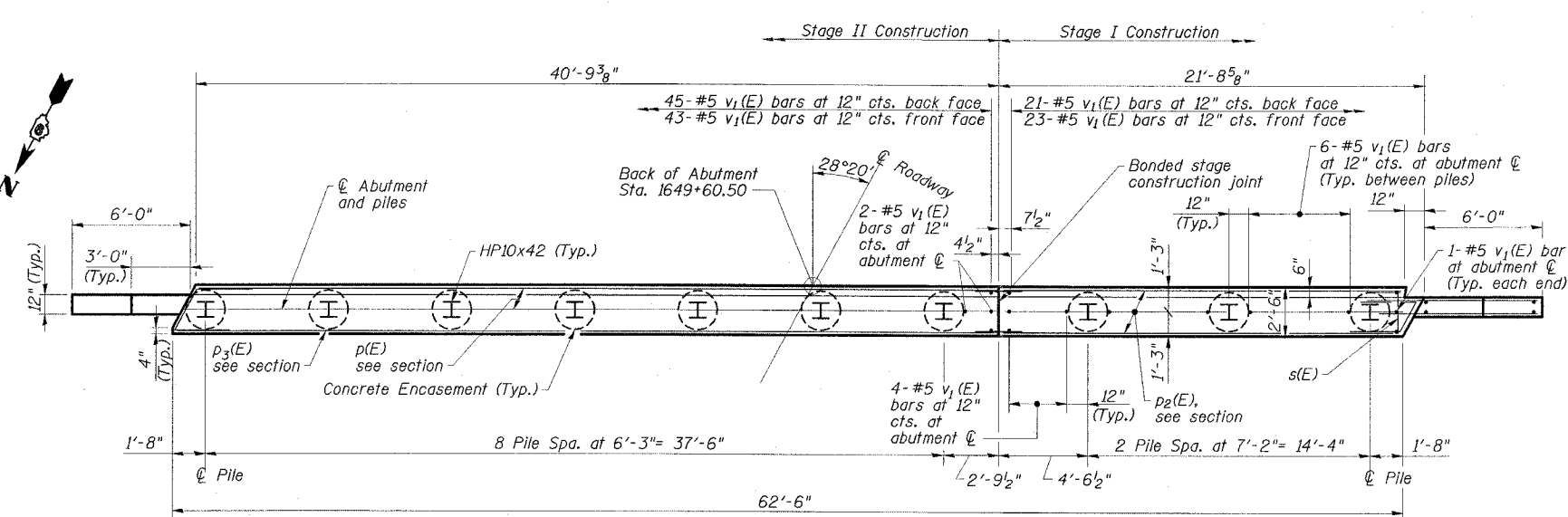
NORTH ABUTMENT
IL 34 OVER
WEST HARRISBURG DRAINAGE DITCH
FAP ROUTE 869 - SECTION (105A)B-1
SALINE COUNTY
STATION 1649+21.50
STRUCTURE NO. 083-0066

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

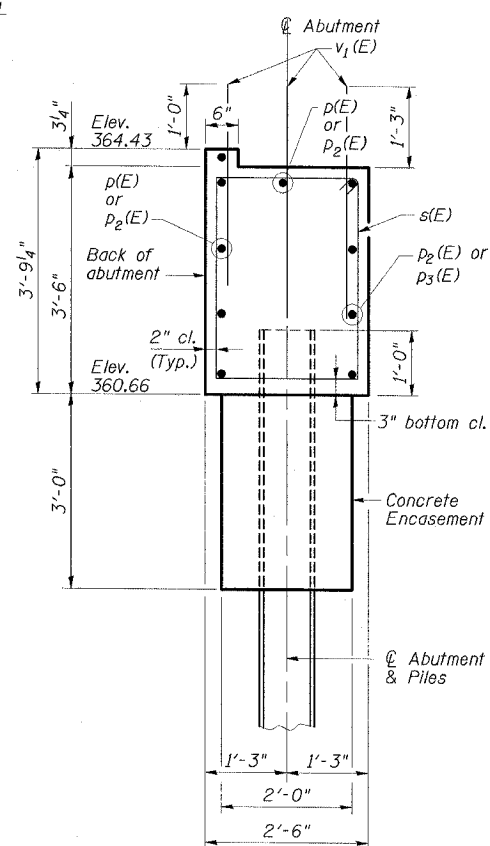
ROUTE NO.	SECTION	COUNTY	SHEET NO.	SHEET NO.
FAP 869	*	SALINE	71	41
SHEET NO. 12				
17 SHEETS				
CONTRACT NO. 98999				
*(105A)B-1				



ELEVATION
(Looking South)



PLAN



SECTION THRU
SOUTH ABUTMENT

(Horizontal dimensions at right angles)

SOUTH ABUTMENT
BILL OF MATERIAL

Bar	No.	Size	Length	Shape
h(E)	28	#6	8'-0"	—
p(E)	6	#7	40'-7"	—
p2(E)	10	#7	20'-4"	—
p3(E)	4	#7	41'-9"	—
s(E)	112	#4	11'-0"	□
u(E)	4	#5	8'-0"	┘
u1(E)	4	#5	7'-5"	┘
v(E)	14	#5	8'-0"	—
v1(E)	187	#5	3'-6"	—
Reinforcement Bars, Epoxy Coated		Pound	3280	
Concrete Structures		Cu. Yd.	23	
Structure Excavation		Cu. Yd.	100	
Furnishing Steel Piles HPI0x42		Foot	216	
Driving Piles		Foot	216	
Test Pile Steel HPI0x42		Each	1	
Porous Granular Embankment (Special)		Cu. Yd.	29	
Bar Splicers		Each	10	
Concrete Encasement		Cu. Yd.	3.5	
Geocomposite Wall Drain		Sq. Yd.	31	
Pipe Underdrains for Structures, 4"		Foot	103	

Note: Field cut p(E) & p1(E) bars as required.

MIN. BAR LAP

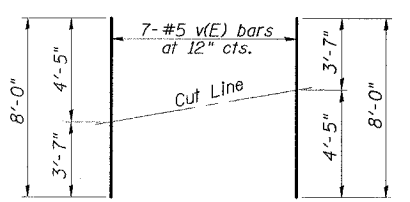
#5 1'-10"

NOTES

1. For pile details and concrete encasement details see Dwg. No. 16 of 17.

PILE DATA

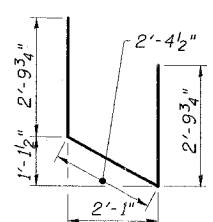
Pile Type & Size: Steel HPI0x42
Nominal Required Bearing: 335 kips
Allowable Resistance Available: 111 kips
Estimated Pile Length: 24'
No. of Production Piles: 9
No. of Test Piles: 1



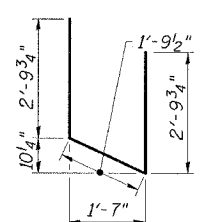
BAR v(E)

FIELD CUTTING DIAGRAM

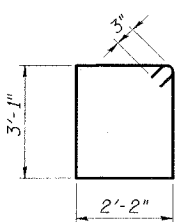
Order v(E) full length. Cut as shown and use remainder of bars in opposite face.



BAR u(E)



BAR u1(E)



BAR s(E)

BAR BENDING DETAILS

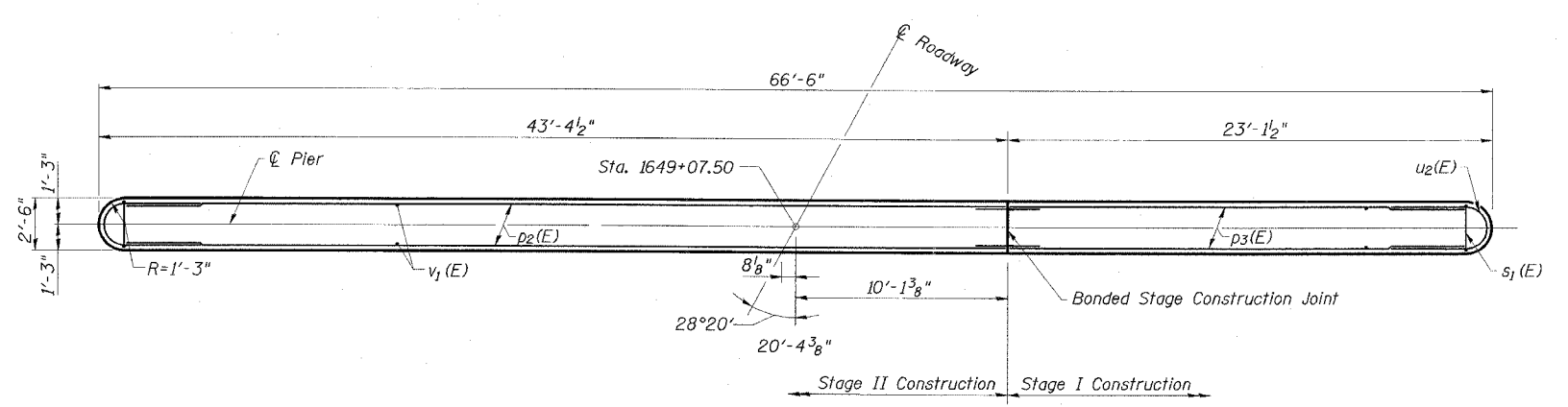
ESCA
CONSULTANTS, INC.

DESIGNED BY:	FMA	2/08
DRAWN BY:	DWH/JPC	2/08
CHECKED BY:	RDP	2/08
APPROVED BY:	RDP	3/08

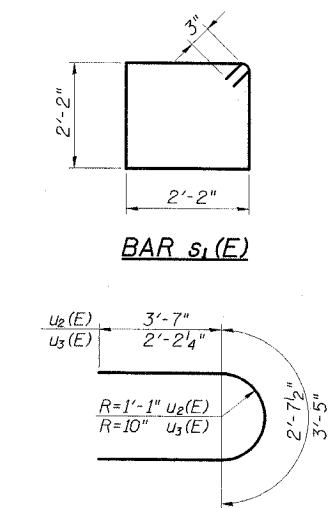
SOUTH ABUTMENT
IL 34 OVER
WEST HARRISBURG DRAINAGE DITCH
FAP ROUTE 869 - SECTION (105A)B-1
SALINE COUNTY
STATION 1649+21.50
STRUCTURE NO. 083-0066

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

ROUTE NO.	SECTION	COUNTY	SHEET	SHEET	SHEET NO. 13
FAP 869	*	SALINE	71	42	17 SHEETS
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT			
CONTRACT NO. 98999			*105A18-1		



TOP PLAN

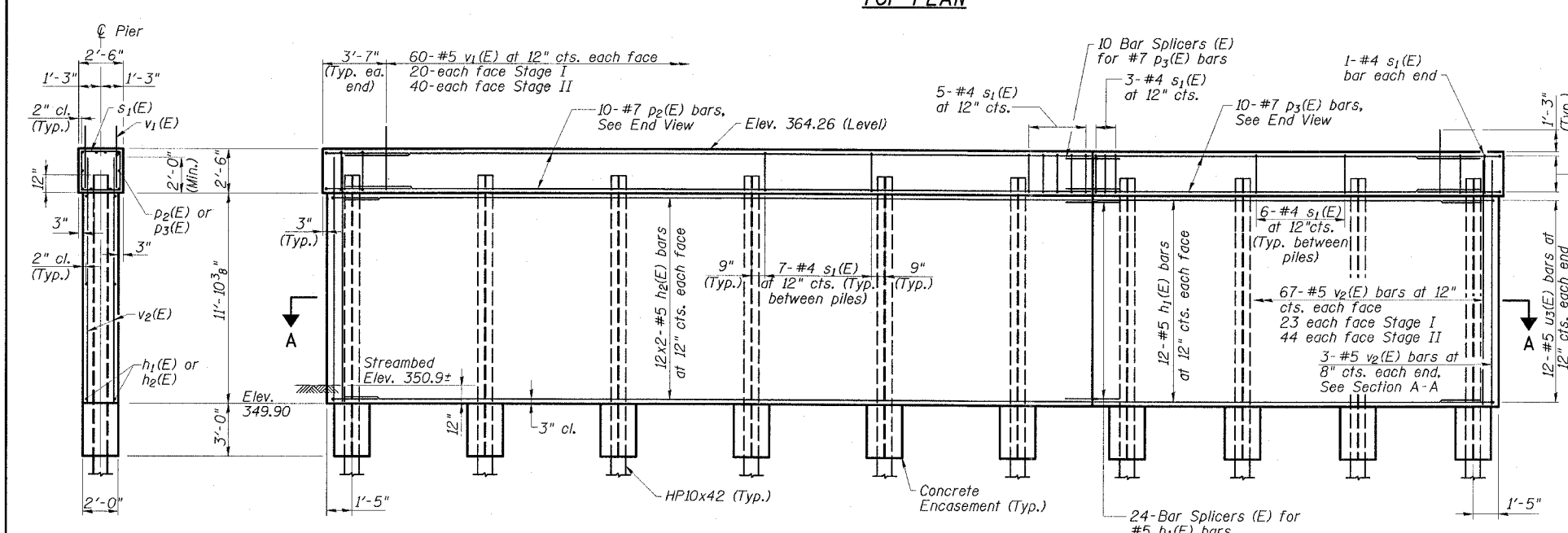


BAR BENDING DETAILS

- NOTES**
- For pile details and concrete encasement details see Dwg. No. 16 of 17.
 - Bars indicated thus: 9x2-#7 etc. Indicates 9 lines of bars with 2 lengths per line.

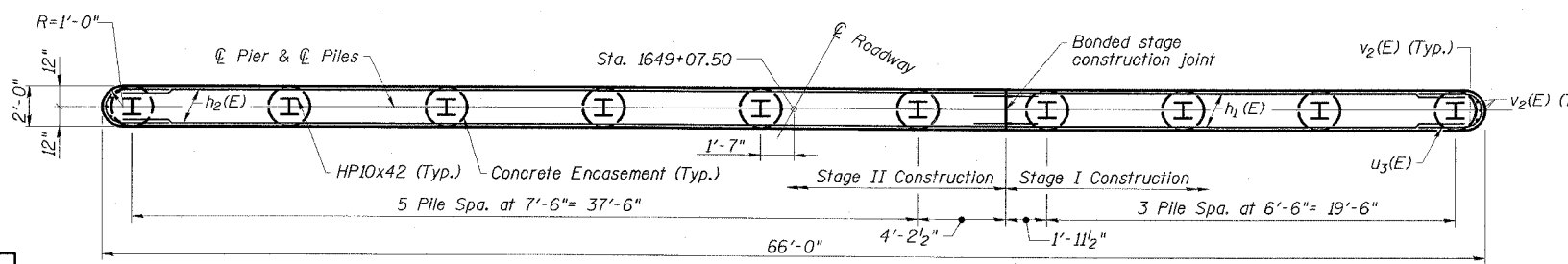
**PIER 1
BILL OF MATERIAL**

Bar	No.	Size	Length	Shape
$h_1(E)$	24	#5	21'-9"	—
$p_2(E)$	48	#5	21'-8"	—
$p_3(E)$	10	#7	42'-0"	—
$p_3(E)$	10	#7	21'-9"	—
$s_1(E)$	126	#4	9'-2"	□
$u_2(E)$	6	#6	10'-7"	U
$u_3(E)$	24	#5	7'-0"	U
$v_1(E)$	120	#5	3'-6"	—
$v_2(E)$	140	#5	13'-8"	—
Concrete Structures	Cu. Yd.	73		
Reinforcement Bars, Epoxy Coated	Pound	6410		
Structure Excavation	Cu. Yd.	53		
Test Pile Steel HP10x42	Each	1		
Furnishing Steel Piles HP10x42	Lin. Ft.	225		
Driving Piles	Lin. Ft.	225		
Underwater Structure Excavation Protection Location 1	Each	1		
Bar Splicers	Each	34		
Concrete Encasement	Cu. Yd.	3.5		



ELEVATION
(Looking South)

END VIEW



SECTION A-A

MIN. BAR LAP

#5 1'-10"

PILE DATA

Pile Type & Size: Steel HP10x42
Nominal Required Bearing: 335 kips
Allowable Resistance Available: 111 kips
Estimated Pile Length: 25'
No. of Production Piles: 9
No. of Test Piles: 1

PIER 1

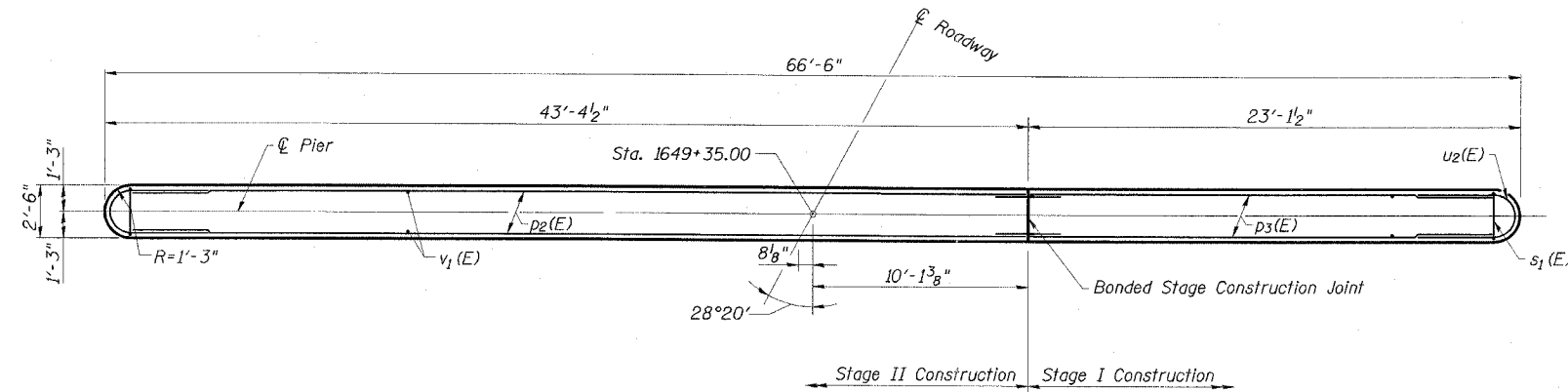
IL 34 OVER
WEST HARRISBURG DRAINAGE DITCH
FAP ROUTE 869 - SECTION (105A)B-1
SALINE COUNTY
STATION 1649+21.50
STRUCTURE NO. 083-0066

ESCA
CONSULTANTS, INC.

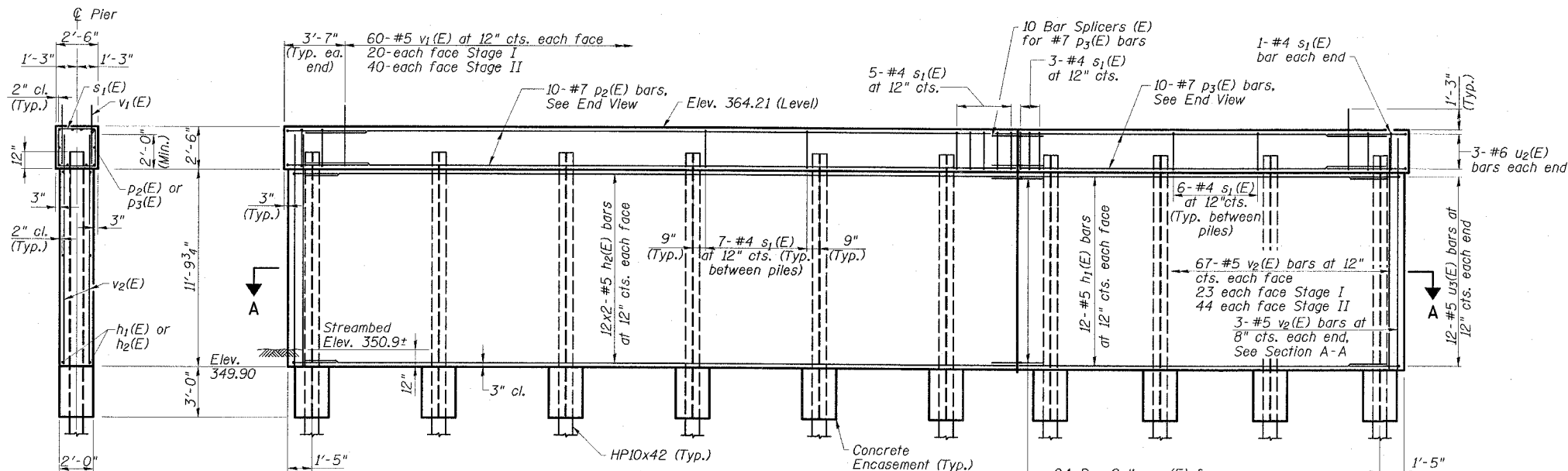
DESIGNED BY:	FMA	2/08
DRAWN BY:	DWH/JPC	2/08
CHECKED BY:	RDP	2/08
APPROVED BY:	RDP	3/08

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

ROUTE NO.	SECTION	COUNTY	SHEET	SHEET NO.
FAP 869	*	SALINE	71	43
CONTRACT NO. 98999				*105A/B-1

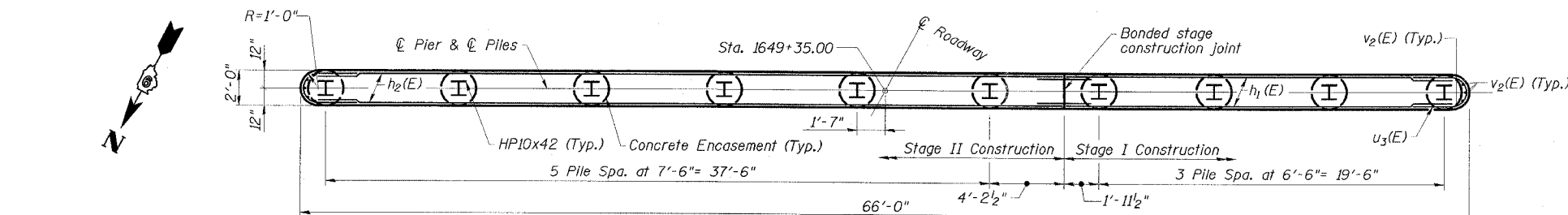


TOP PLAN



ELEVATION
(Looking South)

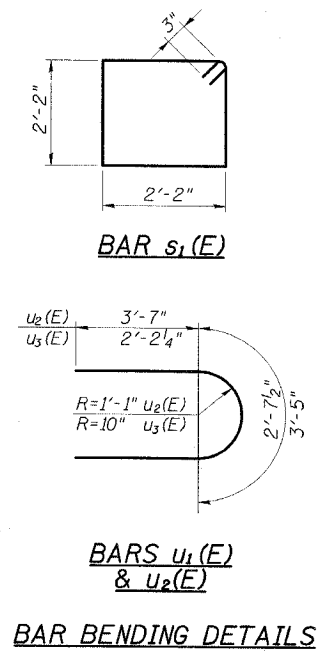
END VIEW



SECTION A-A

ESCA
CONSULTANTS, INC.

DESIGNED BY:	FMA	2/08
DRAWN BY:	DWH/JPC	2/08
CHECKED BY:	RDP	2/08
APPROVED BY:	RDP	3/08



BAR BENDING DETAILS

NOTES

- For pile details and concrete encasement details see Dwg. No. 16 of 17.
- Bars indicated thus: 9x2-#7 etc. Indicates 9 lines of bars with 2 lengths per line.

PIER 1
BILL OF MATERIAL

Bar	No.	Size	Length	Shape
h1(E)	24	#5	21'-9"	—
h2(E)	48	#5	21'-8"	—
p2(E)	10	#7	42'-0"	—
p3(E)	10	#7	21'-9"	—
s1(E)	126	#4	9'-2"	□
u2(E)	6	#6	10'-7"	U
u3(E)	24	#5	7'-0"	U
v1(E)	120	#5	3'-6"	—
v2(E)	140	#5	13'-8"	—

Concrete Structures	Cu. Yd.	73
Reinforcement Bars, Epoxy Coated	Pound	6410
Structure Excavation	Cu. Yd.	22
Test Pile Steel HP10x42	Each	1
Furnishing Steel Piles HP10x42	Lin. Ft.	216
Driving Piles	Lin. Ft.	216
Underwater Structure Excavation Protection Location 2	Each	1
Bar Splicers	Each	34
Concrete Encasement	Cu. Yd.	3.5

MIN. BAR LAP
#5 1'-10"

PILE DATA

Pile Type & Size: Steel HP10x42
Nominal Required Bearing: 335 kips
Allowable Resistance Available: 111 kips
Estimated Pile Length: 24'
No. of Production Piles: 9
No. of Test Piles: 1

PIER 2
IL 34 OVER
WEST HARRISBURG DRAINAGE DITCH
FAP ROUTE 869 - SECTION (105A)B-1
SALINE COUNTY
STATION 1649+21.50
STRUCTURE NO. 083-0066

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

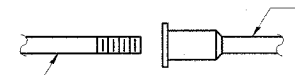
ROUTE NO.	SECTION	COUNTY	SHEETS	SHEET	SHEET NO. 15 17 SHEETS
FAP 869	*	SALINE	71	44	
FED. ROAD DIST. NO.		ILLINOIS	FED. AID PROJECT*		CONTRACT NO. 98999 *(105A)B-1

NOTES

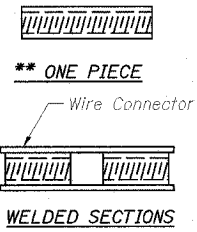
Bar splicer assemblies shall be of an approved type and shall develop in tension at least 125 percent of the yield strength of the lapped reinforcement bars.
Splicer rods shall be of minimum 60 ksi yield strength, threaded or coiled full length.
All reinforcement bars shall be lapped and tied to the splicer rods or dowel bars.
Bar splicer assemblies shall be epoxy coated according to the requirements for reinforcement bars.
Other systems of similar design may be submitted to the Engineer for approval. Approval shall be based on certified test results from an approved testing laboratory that the proposed bar splicer assembly satisfies the following requirements:

- ① Minimum Capacity = $1.25 \times f_y \times A_t$
(Tension in kips)
 - ② Minimum *Pull-out Strength = $0.66 \times f_y \times A_t$
(Tension in kips)
- Where f_y = Yield strength of lapped reinforcement bars in ksi.
 A_t = Tensile stress area of lapped reinforcement bars.
* = 28 day concrete

The diameter of this part is the same as the diameter of the bar spliced.

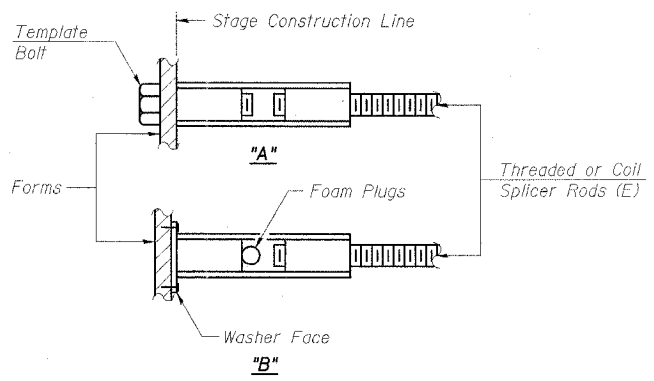


ROLLED THREAD DOWEL BAR



BAR SPLICER ASSEMBLY ALTERNATIVES

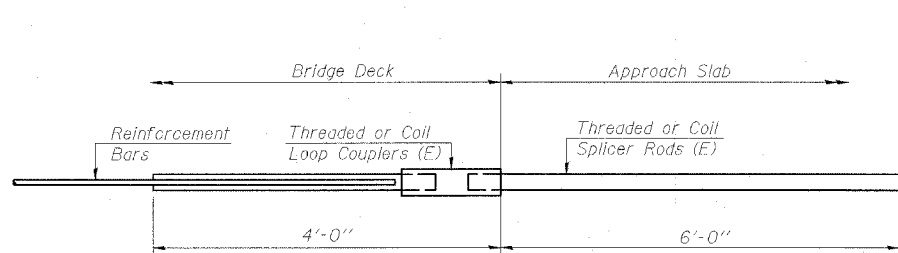
** Heavy Hex Nuts conforming to ASTM A 563, Grade C, D or DH may be used.



INSTALLATION AND SETTING METHODS

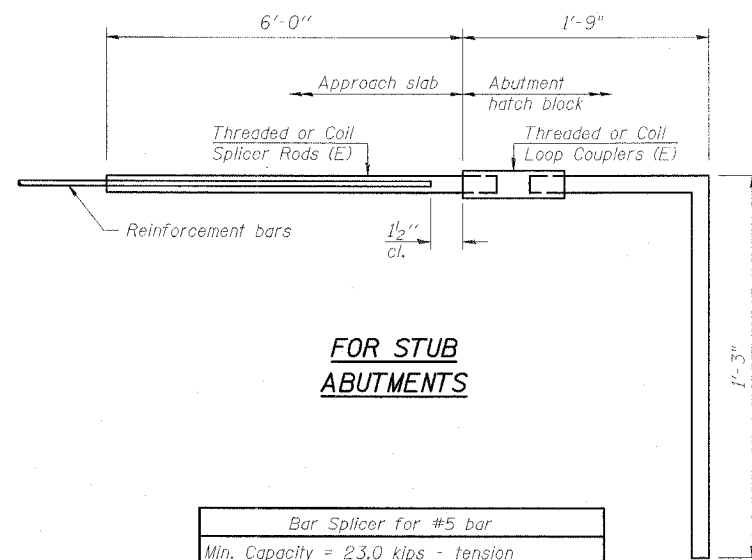
"A" : Set bar splicer assembly by means of a template bolt.
"B" : Set bar splicer assembly by nailing to wood forms or cementing to steel forms.
(E) : Indicates epoxy coating.

Bar Size to be Spliced	Splicer Rod or Dowel Bar Length	Strength Requirements	
		Min. Capacity kips - tension	Min. Pull-Out Strength kips - tension
#4	1'-8"	14.7	7.9
#5	2'-0"	23.0	12.3
#6	2'-7"	33.1	17.4
#7	3'-5"	45.1	23.8
#8	4'-6"	58.9	31.3
#9	5'-9"	75.0	39.6
#10	7'-3"	95.0	50.3
#11	9'-0"	117.4	61.8



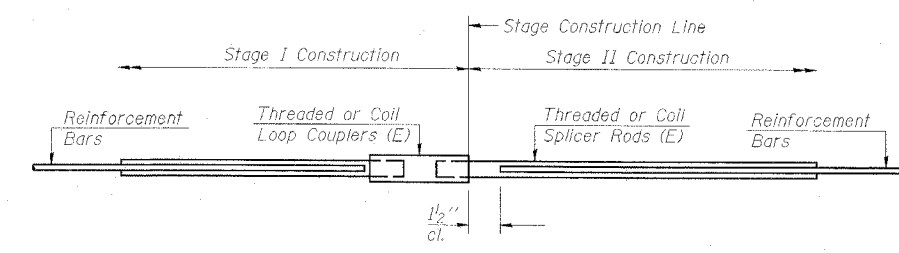
FOR INTEGRAL OR SEMI-INTEGRAL ABUTMENTS

Bar Splicer for #5 bar		
Min. Capacity =	23.0 kips - tension	
Min. Pull-out Strength =	12.3 kips - tension	
No. Required =	0	



FOR STUB ABUTMENTS

Bar Splicer for #5 bar		
Min. Capacity =	23.0 kips - tension	
Min. Pull-out Strength =	12.3 kips - tension	
No. Required =	0	



STANDARD

Bar Size	No. Assemblies Required	Location
#5	48	Piers
#7	20	Piers
#7	20	Abutments
#5	140	Slab

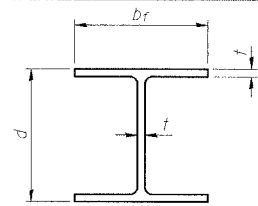
BAR SPLICER ASSEMBLY DETAILS
IL 34 OVER
WEST HARRISBURG DRAINAGE DITCH
FAP ROUTE 869 - SECTION (105A)B-1
SALINE COUNTY
STATION 1649+21.50
STRUCTURE NO. 083-0066

ESCA
CONSULTANTS, INC.

DESIGNED BY:	FMA	2/08
DRAWN BY:	DWH/JPC	2/08
CHECKED BY:	RDP	2/08
APPROVED BY:	RDP	3/08

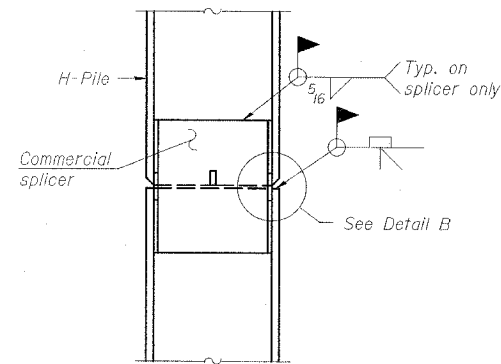
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

ROUTE NO.	SECTION	COUNTY	SHEETS	SHEET	SHEET NO. 16 17 SHEETS
FAP 869	*	SALINE	71	45	
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT-	CONTRACT NO. 98999		

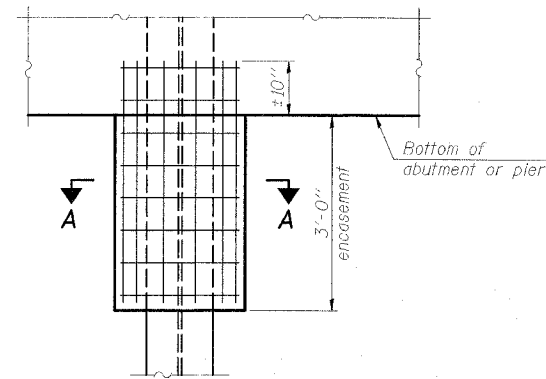


STEEL PILE TABLE

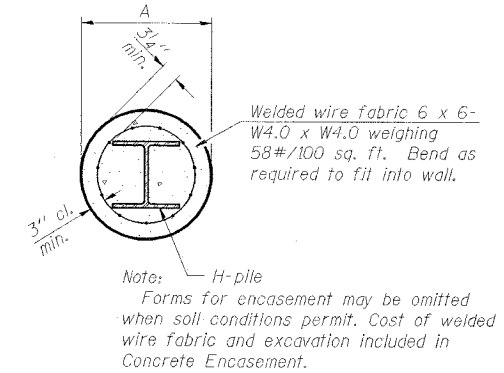
Designation	Depth d	Flange width b _f	Web and Flange thickness t	Encasement diameter A
HP 14x117	14 1/4"	14 7/8"	13/16"	30"
x102	14"	14 3/4"	1/16"	30"
x89	13 7/8"	14 3/4"	5/8"	30"
x73	13 5/8"	14 5/8"	1/2"	30"
HP 12x84	12 1/4"	12 1/4"	1/16"	24"
x74	12 1/8"	12 1/4"	5/8"	24"
x63	12"	12 1/8"	1/2"	24"
x53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



ELEVATION



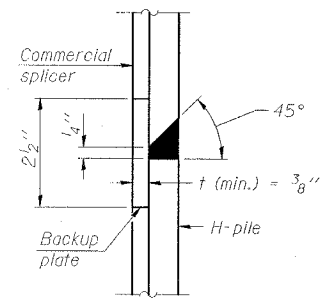
ELEVATION



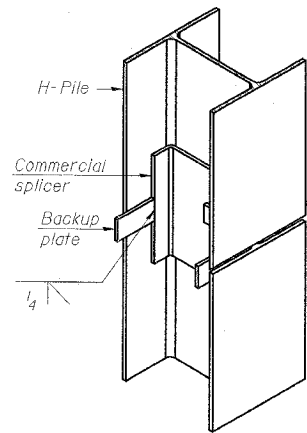
SECTION A-A

Note: Forms for encasement may be omitted when soil conditions permit. Cost of welded wire fabric and excavation included in Concrete Encasement.

PILE ENCASEMENT

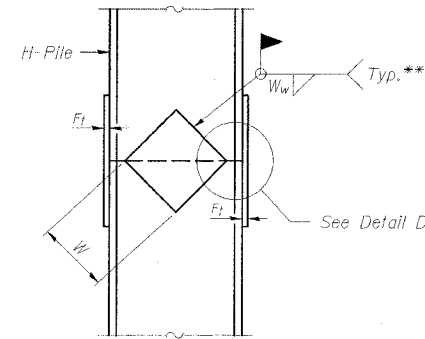


DETAIL "B"

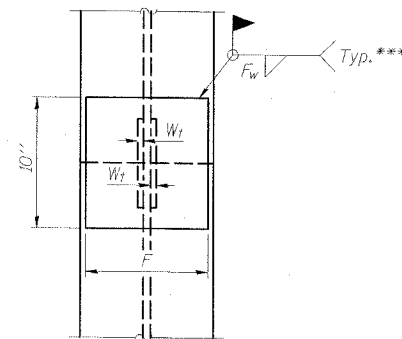


ISOMETRIC VIEW

WELDED COMMERCIAL SPLICE



ELEVATION



END VIEW

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

WELDED PLATE FIELD SPLICE

STEEL H-PILE DETAILS

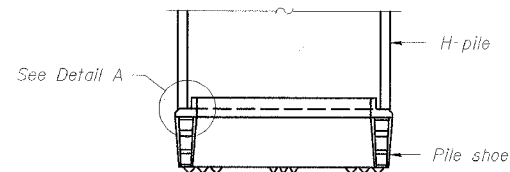
IL 34 OVER

WEST HARRISBURG DRAINAGE DITCH
FAP ROUTE 869 - SECTION (105A)B-1

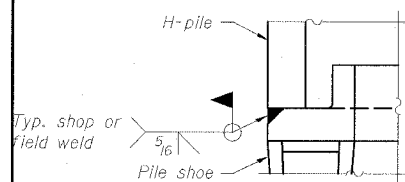
SALINE COUNTY

STATION 1649+21.50

STRUCTURE NO. 083-004(KE)

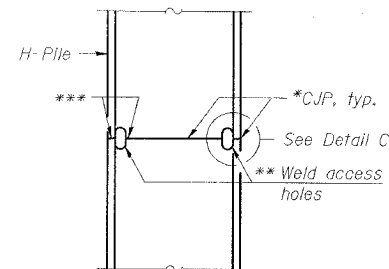


ELEVATION

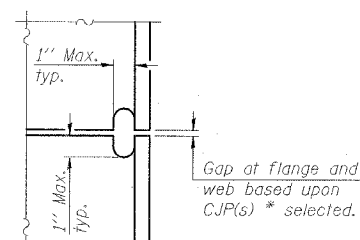


DETAIL A

H-PILE SHOE ATTACHMENT

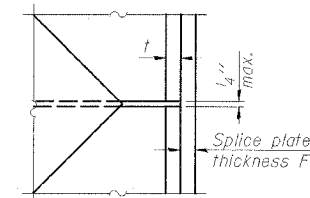


ELEVATION



DETAIL C

COMPLETE PENETRATION WELD SPLICE



DETAIL D

* Use joint conforming to Figure 3.4 in AWS D1.1, Structure Welding Code - Steel.

** Preparation per Fig. 5.2 in AWS D1.1, Structure Welding Code - Steel.

*** Interrupt welds 1/4" from end of each pile.

Note:

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

ESCA
CONSULTANTS, INC.

DESIGNED BY:	FMA	2/08
DRAWN BY:	DWH	2/08
CHECKED BY:	RDP	2/08
APPROVED BY:	RDP	3/08

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

ROUTE NO.	SECTION	COUNTY	SHEET	SHEET NO.
FAP 869	*	SALINE	71 46	17
FED. ROAD DIST. NO.				ILLINOIS
CONTRACT NO. 98999				*(105A)B-1

HOLCOMB FOUNDATION ENGINEERING INC. P.O. Box 88 618-529-5262 Carbondale, Il. 62903 618-457-8991 fax											
Bridge Foundation Boring Log											
Project: H-07079		Bridge over West Harrisburg Drainage Ditch		Date: 4/4/07							
Section: SR #174		Station: 1649+25									
Route: SR 143		Bored by: J. Carter									
County: Saline		Checked By: J. Holcomb									
Boring No.	Station	Offset	Elevation	N	Q _u	sf	Surface Water Elev.	Elevation	N	Q _u	sf
1	1648+48	48.5 LT	362.96	0			None	362.96			
			362.96	0			None	362.96			
			356.96	10	1.95	27	None	356.96			
			349.46	11	3.45	22	85.8%	349.46			
			341.96	30	2.15	13	None	341.96			

HOLCOMB FOUNDATION ENGINEERING INC. P.O. Box 88 618-529-5262 Carbondale, Il. 62903 618-457-8991 fax											
Bridge Foundation Boring Log											
Project: H-07079		Bridge over West Harrisburg Drainage Ditch		Date: 4/4/07							
Section: SR #174		Station: 1649+25									
Route: SR 143		Bored by: J. Carter									
County: Saline		Checked By: J. Holcomb									
Boring No.	Station	Offset	Elevation	N	Q _u	sf	Surface Water Elev.	Elevation	N	Q _u	sf
2	1649+85	34.5 RT	364.82	0			None	364.82			
			364.82	0			None	364.82			
			355.82	10	1.95	27	None	355.82			
			348.82	12	3.15	25	86.3%	348.82			
			342.82	22	2.15	12	None	342.82			

ESCA
CONSULTANTS, INC.
DESIGNED BY: FMA 2/08
DRAWN BY: DWH 2/08
CHECKED BY: RDP 2/08
APPROVED BY: RDP 3/08

BORING LOGS
IL 34 OVER
WEST HARRISBURG DRAINAGE DITCH
FAP ROUTE 869 - SECTION (105A)B-1
SALINE COUNTY
STATION 1649+21.50
STRUCTURE NO. 083-0066



CONTRACT NO. 98999				
FAP RTE	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
869	(105A)B-1	SALINE	71	47
STA.		TO STA.		
FED. ROAD DIST. NO.		ILLINOIS FED. AID PROJECT		

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**STATION 1649+25
REBUILT BY
STATE OF ILLINOIS
FA RTE 126 Spur, SEC. 105B-DR-4
FA PROJ. RF-375 (10)
LOADING H320**

GENERAL NOTES

All reinforcement bars shall be lapped 24 diameters unless otherwise shown.
It shall be the responsibility of the contractor to verify all dimensions and conditions existing in the field prior to construction and ordering of materials.
Expansion joints which are not cast in the structure shall be fabricated and marked in accordance with Art. 505.06 of the Standard Specifications and are included in quantity of structure.
The top surface of the beams shall be finished in accordance with Article 505.06 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.
Expansion bolts shall consist of self-drilling expansion anchors and 3/4" hooked bolts. Hooked bolts shall extend a minimum of 12" into new concrete unless otherwise shown.
Limits of waterproofing membrane system shall extend from cut to cut of deck and from expansion joint to 2'-0" beyond sawed joint. For Waterproofing Membrane System see Special Provisions.
All Structural Steel shall be painted with two coats of basic lead silico chromate paint.

DETAIL "A"

NOTE: Dimensions are at right angles.
Hooked areas to be paired after beams have been erected and joints grouted.
Ends of beams shall be aligned at the expansion joints. Any local variation in the beam heights shall be placed at the fixed joint.
See End of Beam Detail for reinforcement.

TOTAL BILL OF MATERIAL

Item	Unit	Super	Sub	Total
Bituminous Concrete Surface Course, Class 1	Ton	32		32
Removal of Existing Superstructure	Each	1		1
Concrete Removal	Cu Yd	2.0	2.0	4.0
Expansion Bolts 3/4"	Each	2	2	4
Class A Concrete	Cu Yd	0.9	24.5	25.4
Precast Concrete Bridge Slab	Sq Ft	34.3		34.3
Precast Prestressed Concrete D. or B. (Depth)	Sq Ft	16.59		16.59
Steel Reinforcing, Type N	Lbs	155		155
Reinforcement Bars	Pound	180	3110	3290
Name Plate	Each	1		1
Prefabricated Joint Sealer	Lbs	78		78
Waterproofing Membrane System	Sq Yd	192		192
Structural Steel	Pound	26.30		26.30
Portland Cement Mortar Surface Course	Lbs	503		503

DESIGN DRESSED

FIELD UNIT	PRECAST UNIT
f _c = 14,000 psi - Sub	f _c = 4,700 psi
f _c = 1,000 psi	f _c = 1,000 psi
f _c = 20,000 psi - Print	f _c = 20,000 psi
n = 10	n = 8

PRECAST PRESTRESSED UNITS

f _c = 3,000 psi
f _c = 4,000 psi
f _c = 270,000 psi - Top Strands
f _c = 189,000 psi - Top Strands

Allow 0.5% for future w.p.
Design Specifications
1969 AA700 on special
LOADING H320/44

WATERWAY INFORMATION

Drainage Area ----- 2660 Acres
Character ----- rolling, clay, wooded, cultivated
Present Opening ----- 224 sq ft
Required Opening ----- 424 sq ft
Proposed Opening ----- 424 sq ft
Q(50) = 2000 cfs

DESIGNED Glen H. Kiehn
CHECKED B. P. Shien
DRAWN S.M.R.
CHECKED K.

EXAMINED [Signature]
DESIGNED M. Blumstein
CHECKED [Signature]
DRAWN [Signature]

GENERAL PLAN & ELEVATION
FA RTE 126 Spur OVER
WEST HARRISBURG
DRAINAGE DITCH
FA ROUTE 126 Spur
SECTION 105B-DR-4
SALINE COUNTY
STATION 1649+25

LOCATION SKETCH

PROFILE
S.D.I. ROUTE 143

ELEVATION

PLAN

PROFILE
S.D.I. ROUTE 143

DETAIL "A"

TOTAL BILL OF MATERIAL

DESIGN DRESSED

PRECAST PRESTRESSED UNITS

WATERWAY INFORMATION

DESIGNED Glen H. Kiehn
CHECKED B. P. Shien
DRAWN S.M.R.
CHECKED K.

EXAMINED [Signature]
DESIGNED M. Blumstein
CHECKED [Signature]
DRAWN [Signature]

GENERAL PLAN & ELEVATION
FA RTE 126 Spur OVER
WEST HARRISBURG
DRAINAGE DITCH
FA ROUTE 126 Spur
SECTION 105B-DR-4
SALINE COUNTY
STATION 1649+25

LOCATION SKETCH

PROFILE
S.D.I. ROUTE 143

ELEVATION

PLAN

PROFILE
S.D.I. ROUTE 143

DETAIL "A"

TOTAL BILL OF MATERIAL

DESIGN DRESSED

PRECAST PRESTRESSED UNITS

WATERWAY INFORMATION

DESIGNED Glen H. Kiehn
CHECKED B. P. Shien
DRAWN S.M.R.
CHECKED K.

EXAMINED [Signature]
DESIGNED M. Blumstein
CHECKED [Signature]
DRAWN [Signature]

GENERAL PLAN & ELEVATION
FA RTE 126 Spur OVER
WEST HARRISBURG
DRAINAGE DITCH
FA ROUTE 126 Spur
SECTION 105B-DR-4
SALINE COUNTY
STATION 1649+25

LOCATION SKETCH

PROFILE
S.D.I. ROUTE 143

ELEVATION

PLAN

PROFILE
S.D.I. ROUTE 143

DETAIL "A"

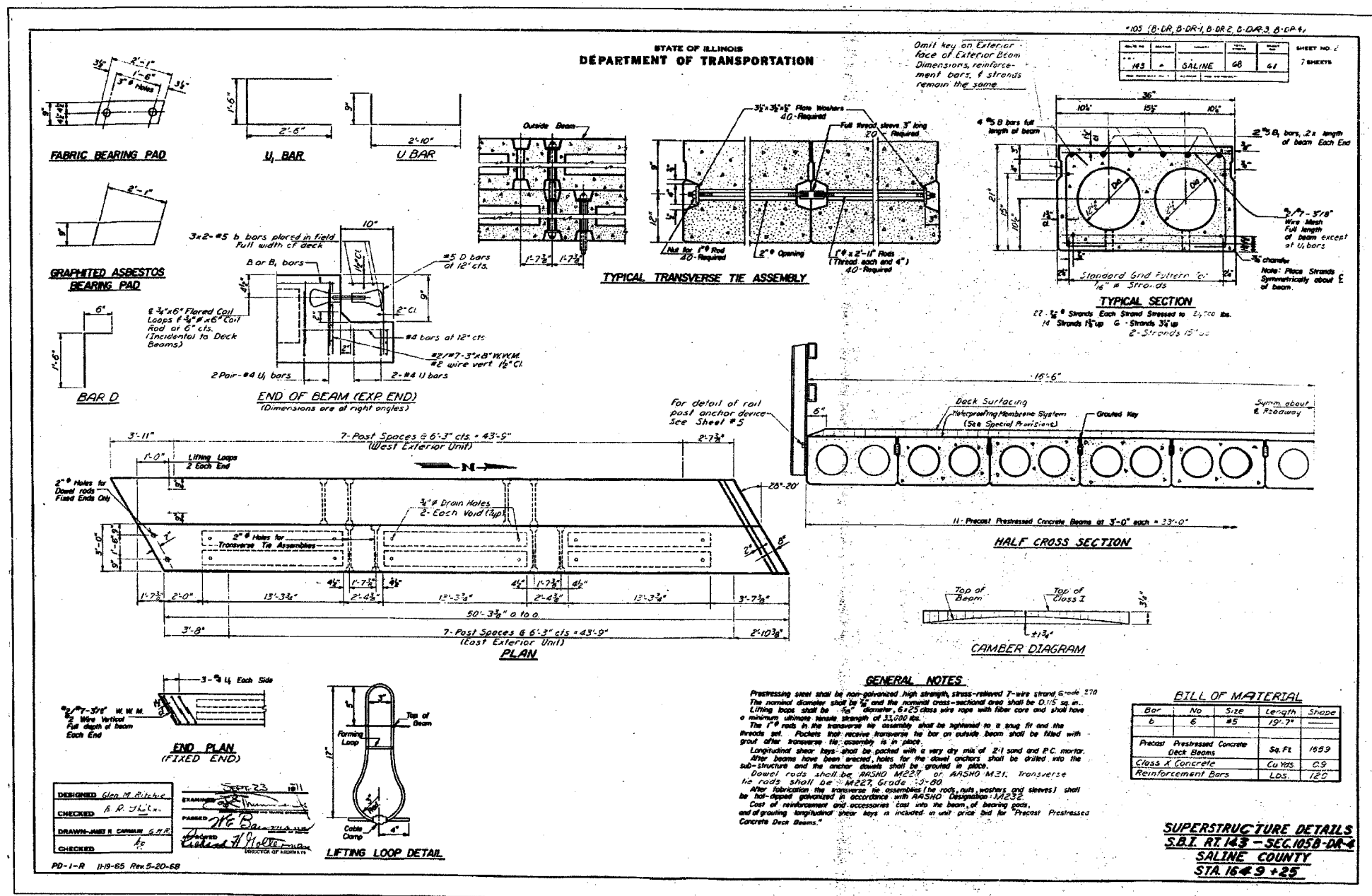
TOTAL BILL OF MATERIAL

PLOT DATE = #DATE#
PLOT SCALE = #SCALE#
REFERENCE = #REF#

ESCA CONSULTANTS, INC.		
DESIGNED BY:	MTD	06/07
DRAWN BY:	DWH	06/07
CHECKED BY:	MTD	10/07
APPROVED BY:	RDP	03/08

FOR INFORMATION ONLY

EXISTING STRUCTURE PLANS
FAP RTE 869 (IL 34)
SECTION (105A)B-1
SALINE COUNTY

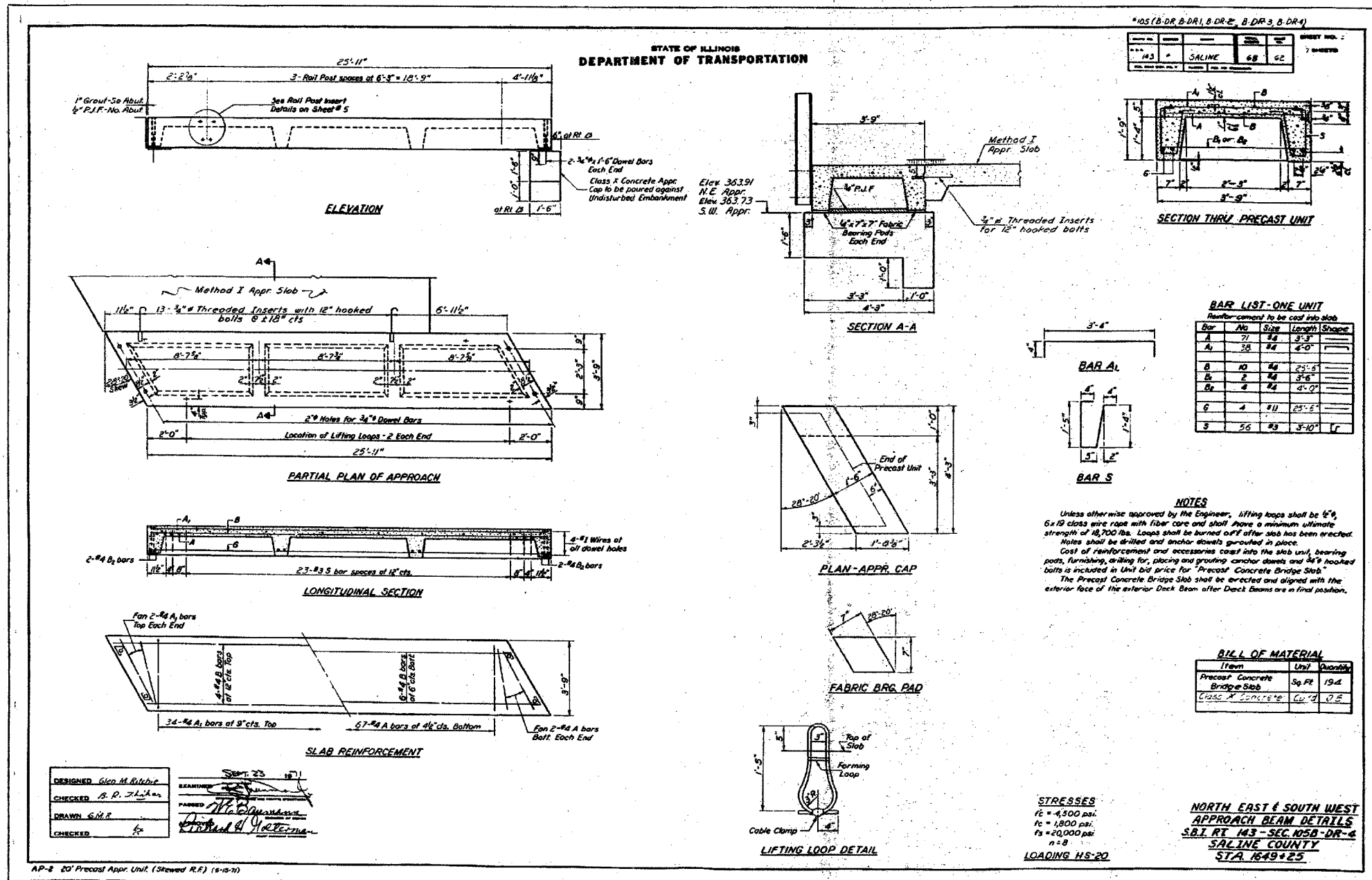


ESCA
CONSULTANTS, INC.

DESIGNED BY: MTD 06/07
 DRAWN BY: DWH 06/07
 CHECKED BY: MTD 10/07
 APPROVED BY: RDP 03/08

FOR INFORMATION ONLY

EXISTING STRUCTURE PLANS
 FAP RTE 869 (IL 34)
 SECTION (105A)B-1
 SALINE COUNTY



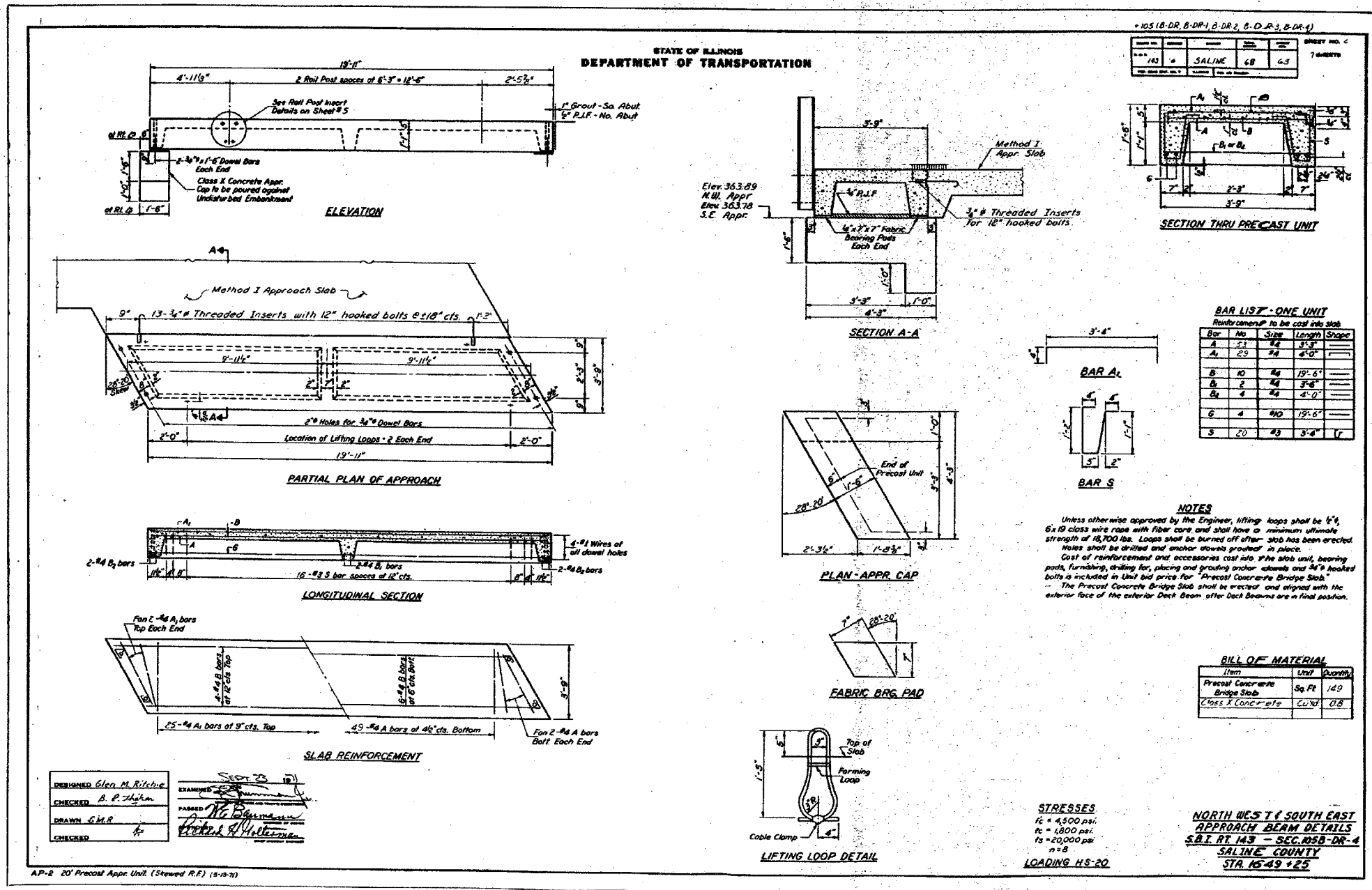
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CONSULTANTS, INC.

DESIGNED BY:	MTD	06/07
DRAWN BY:	DWH	06/07
CHECKED BY:	MTD	10/07
APPROVED BY:	RDP	03/08

FOR INFORMATION ONLY

EXISTING STRUCTURE PLANS
 FAP RTE 869 (IL 34)
 SECTION (105A)B-1
 SALINE COUNTY

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 REFERENCE = #SHEET#



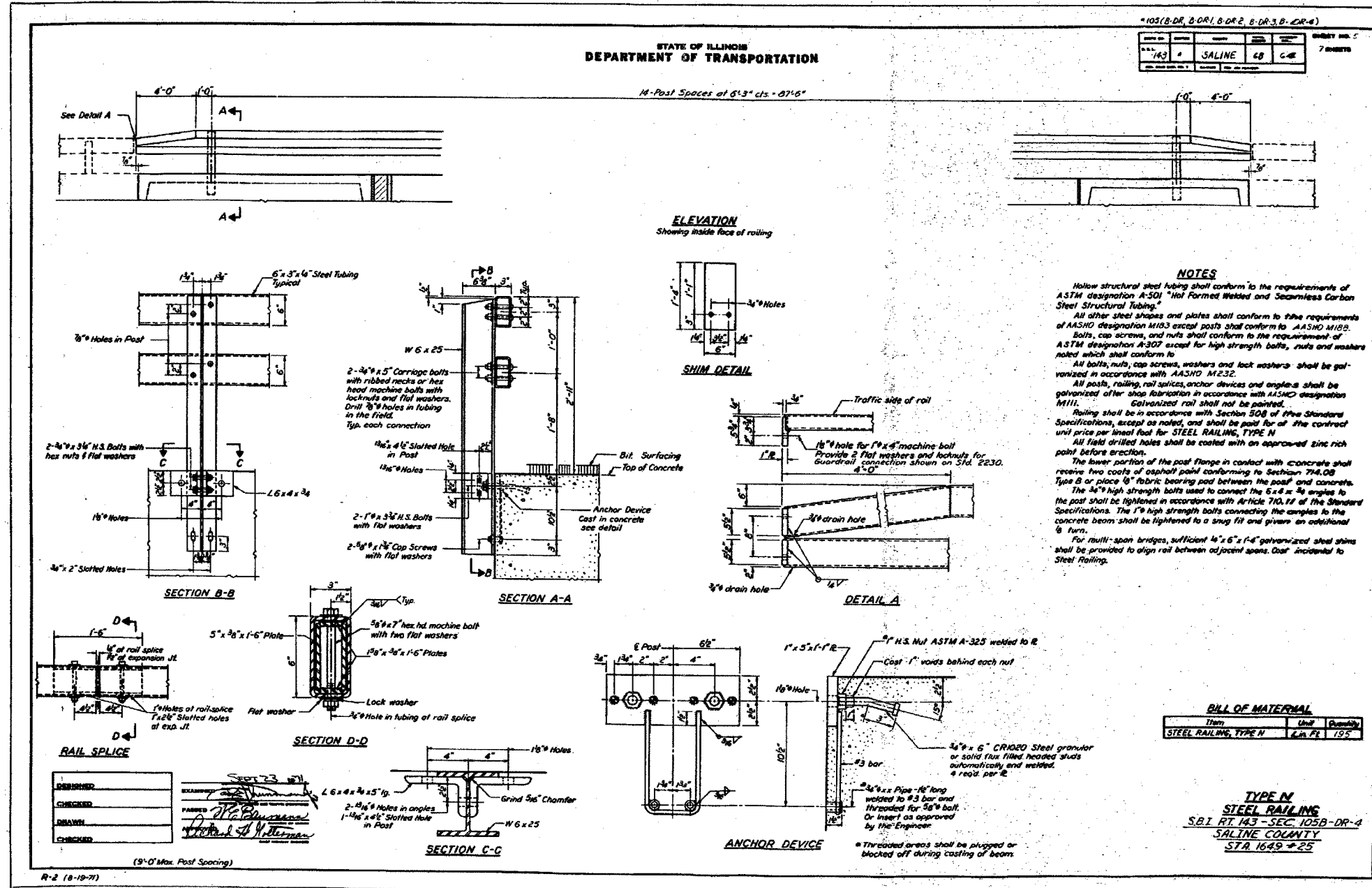
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CONSULTANTS, INC.

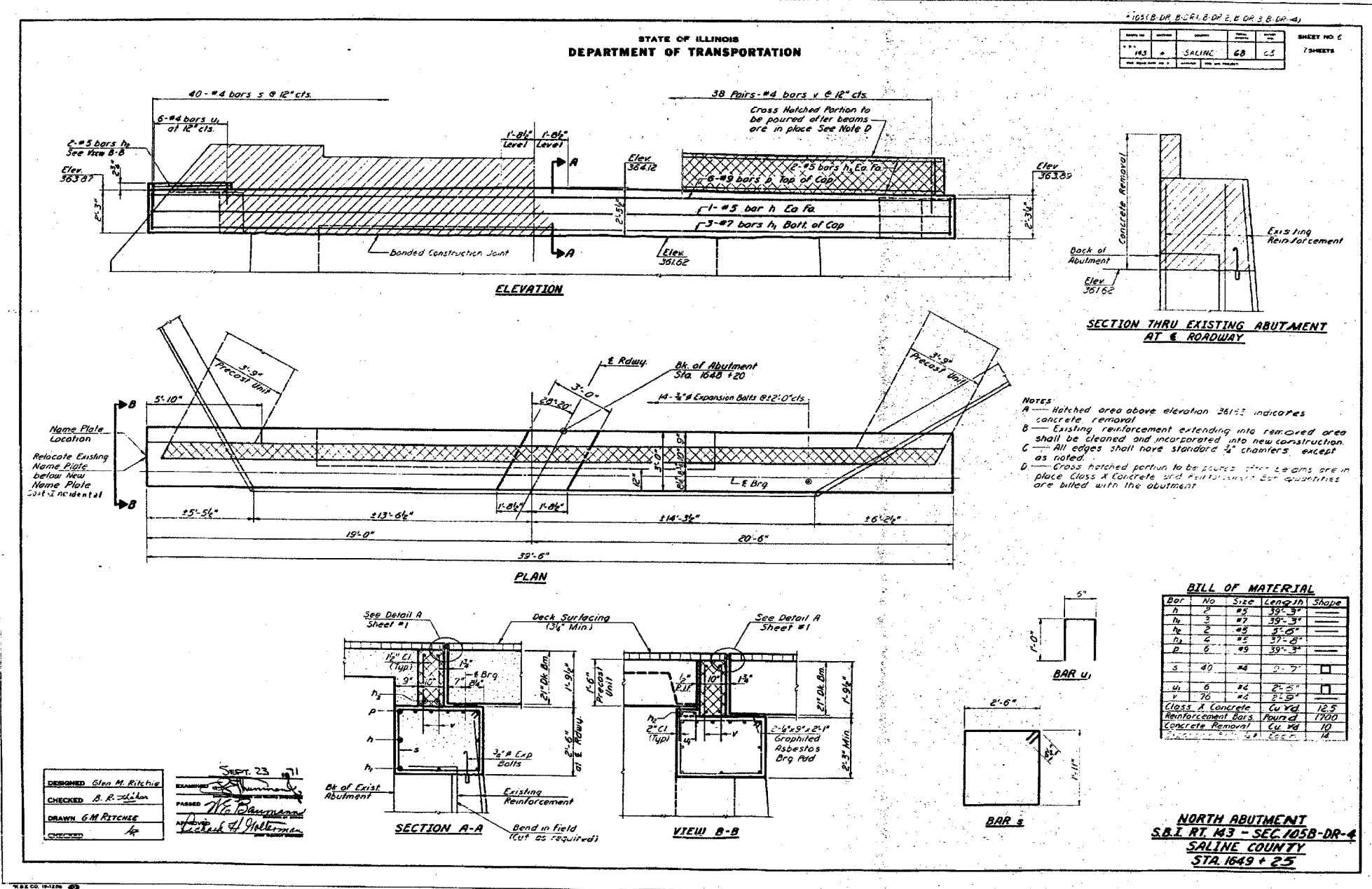
DESIGNED BY: MTD 06/07
DRAWN BY: DWH 06/07
CHECKED BY: MTD 10/07
APPROVED BY: RDP 03/08

FOR INFORMATION ONLY

EXISTING STRUCTURE PLANS
FAP RTE 869 (IL 34)
SECTION (105A)B-1
SALINE COUNTY

FAP RTE	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
869	(105A)B-1	SALINE	71	51
STA.		TO STA.		
FED. ROAD DIST. NO.		ILLINOIS	FED. AID PROJECT	



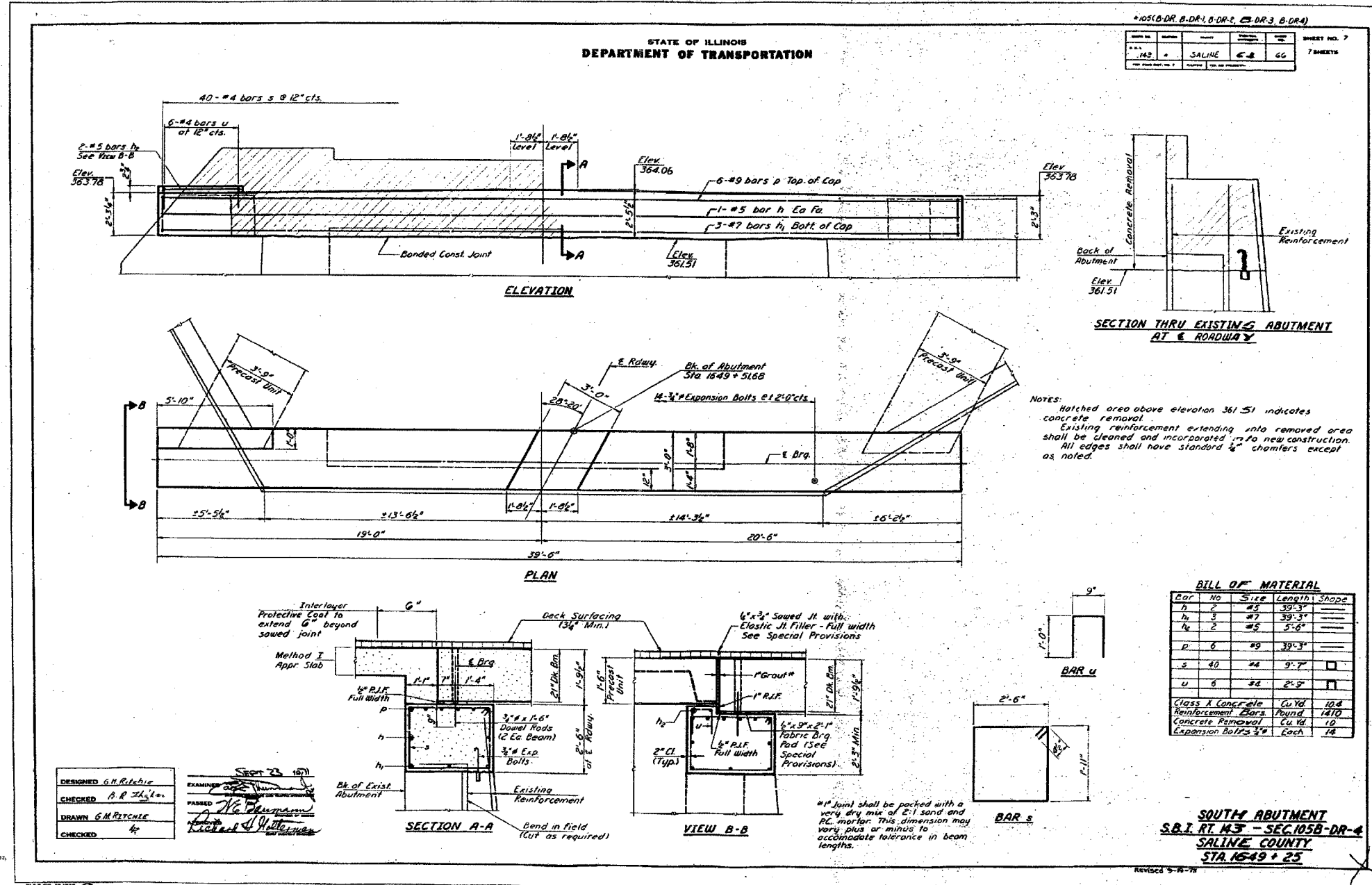


ESCA
CONSULTANTS, INC.

DESIGNED BY: MTD 06/07
 DRAWN BY: DWH 06/07
 CHECKED BY: MTD 10/07
 APPROVED BY: RDP 03/08

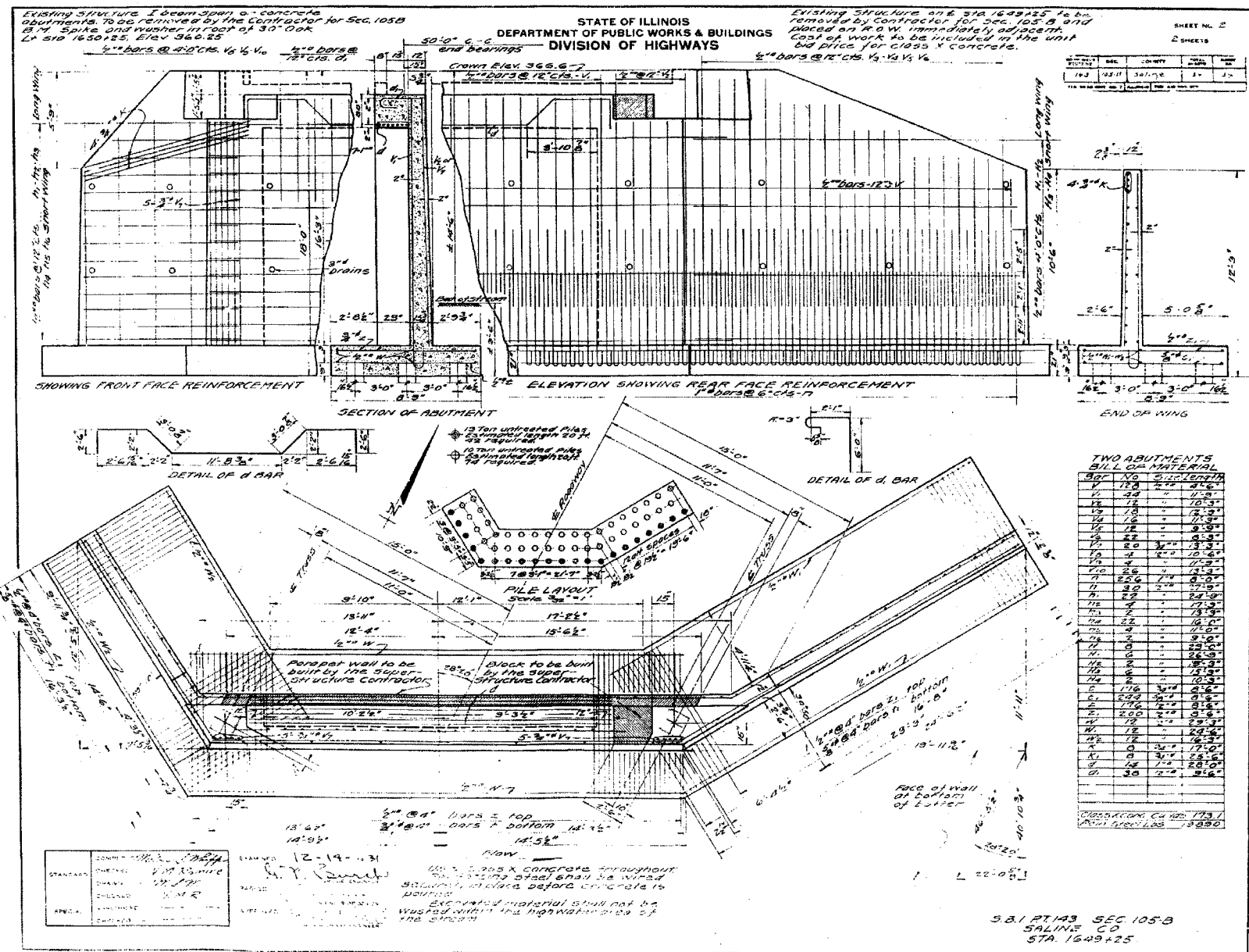
FOR INFORMATION ONLY

EXISTING STRUCTURE PLANS
 FAP RTE 869 (IL 34)
 SECTION (105A)B-1
 SALINE COUNTY





CONTRACT NO. 98999			
FAP RTE	SECTION	COUNTY	TOTAL SHEET NO.
869	(105A)B-1	SALINE	71 54
STA.		TO STA.	
FED. ROAD DIST. NO.		ILLINOIS FED. AID PROJECT	



FOR INFORMATION ONLY

EXISTING STRUCTURE PLANS
FAP RTE 869 (IL 34)
SECTION (105A)B-1
SALINE COUNTY

ESCA
CONSULTANTS, INC.

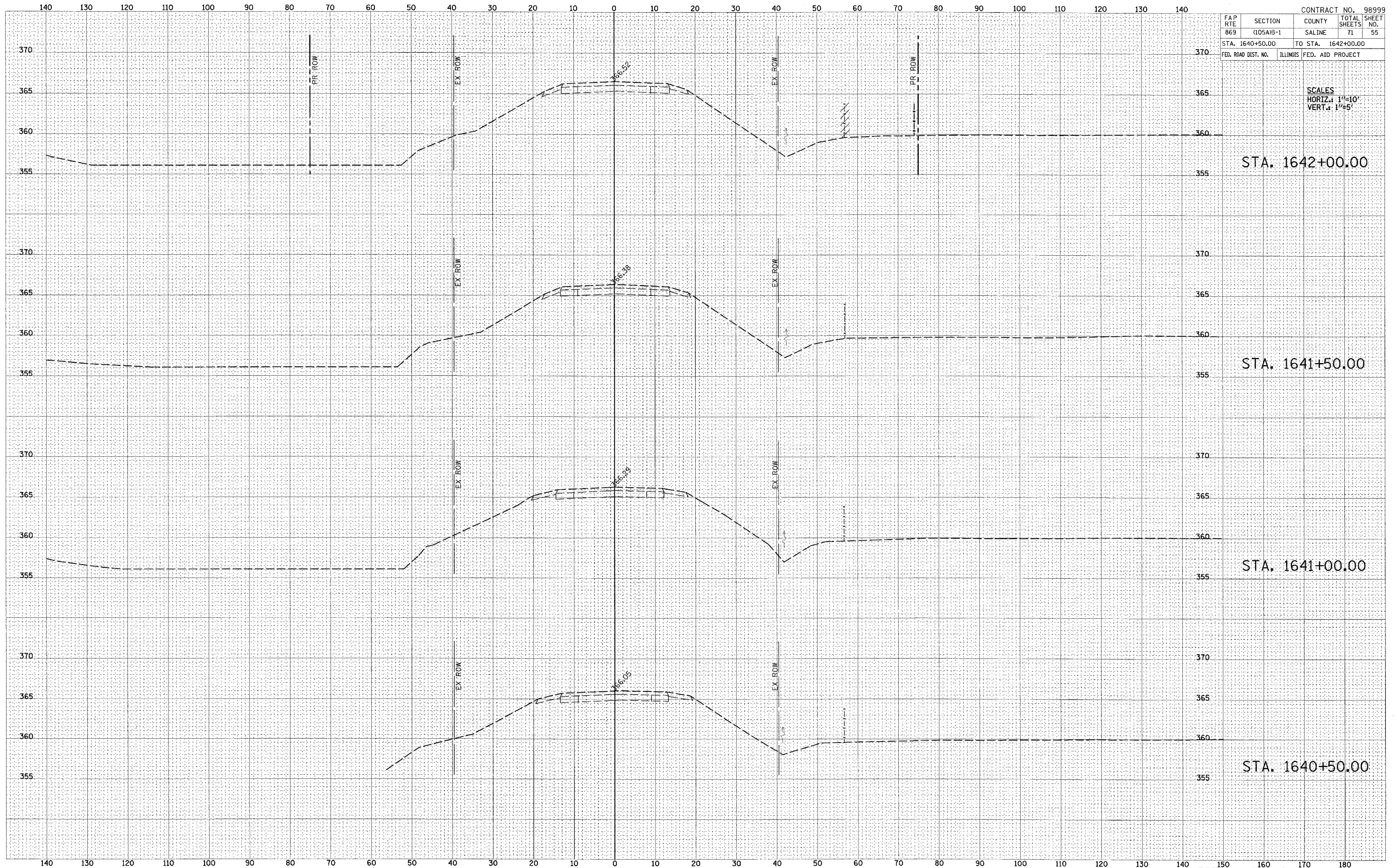
DESIGNED BY: MTD 06/07
DRAWN BY: DWH 06/07
CHECKED BY: MTD 10/07
APPROVED BY: RDP 03/08

PLAT DATE = 06/07
FILE NAME = 81414
PLOT SCALE = 1/8"=1'-0"
REFERENCE = SHEET 71



FINAL SURVEY	DATE
SUBMITTED	BY
NOTE BOOK	NO.
TEMPLATE	
AREAS CHECKED	

ORIGINAL SURVEY	DATE
SUBMITTED	BY
NOTE BOOK	NO.
TEMPLATE	
AREAS CHECKED	



CONTRACT NO. 98999				
FAP RTE	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
869	(105A1B-1)	SALINE	71	55
STA. 1640+50.00		TO STA. 1642+00.00		
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		

SCALES
HORIZ.: 1"=10'
VERT.: 1"=5'

STA. 1642+00.00

STA. 1641+50.00

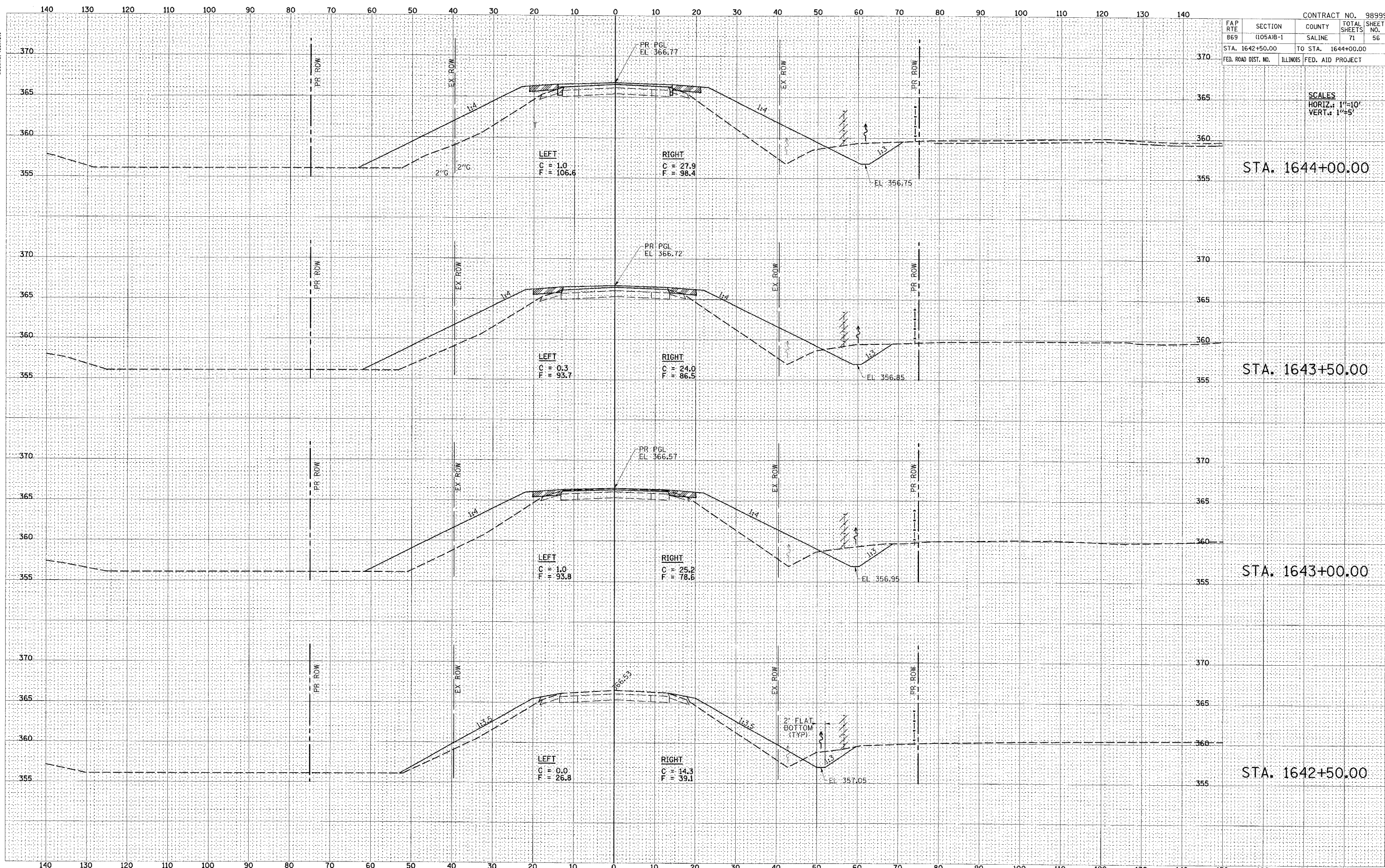
STA. 1641+00.00

STA. 1640+50.00



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CONTRACT NO. 98999			
FAP RTE	SECTION	COUNTY	TOTAL SHEET NO.
869	(105A)B-1	SALINE	71
STA. 1642+50.00		TO STA. 1644+00.00	
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT	

SCALES
HORIZ.: 1"=10'
VERT.: 1"=5'

STA. 1644+00.00

STA. 1643+50.00

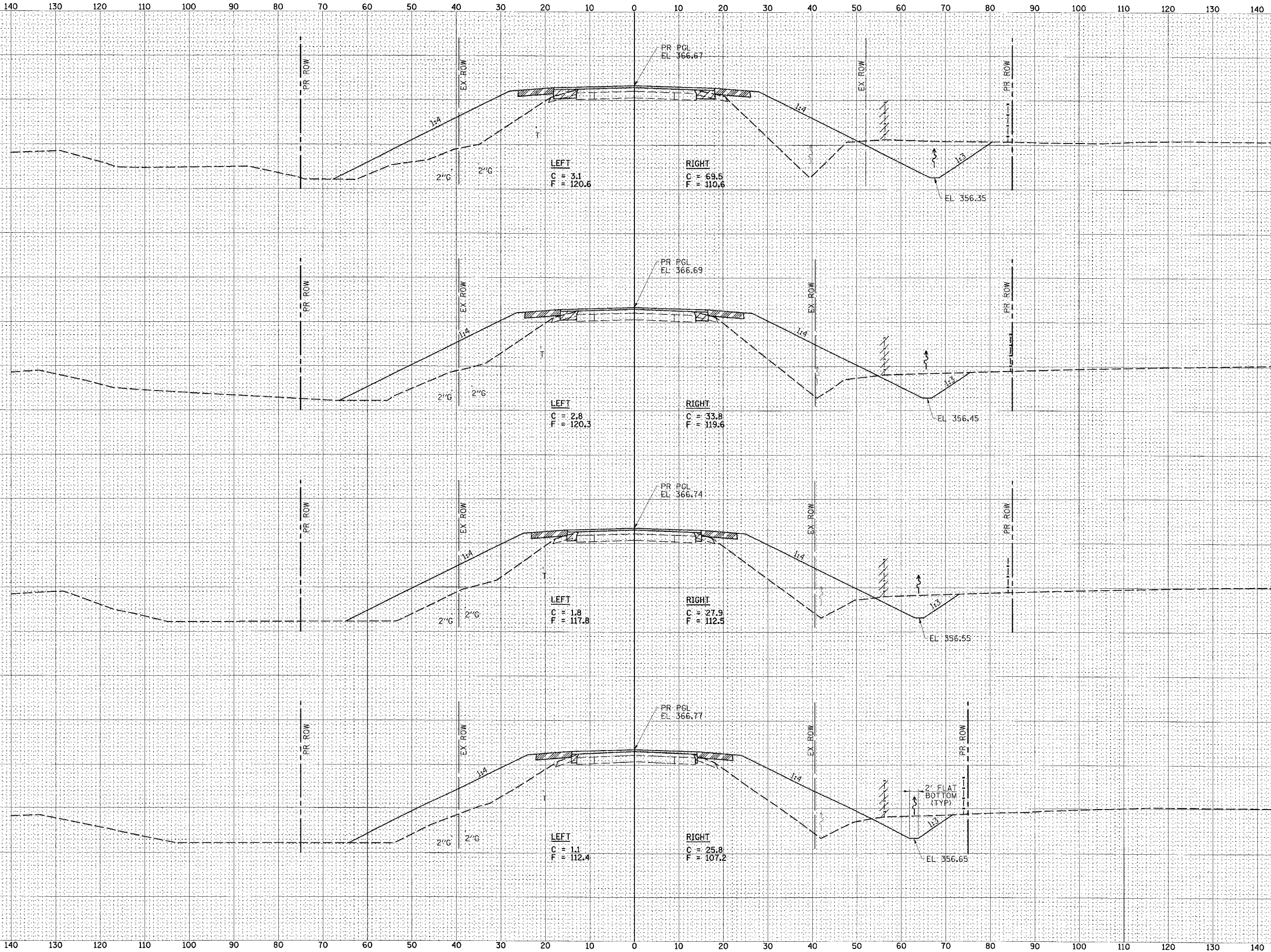
STA. 1643+00.00

STA. 1642+50.00



DATE	
BY	
FINAL SURVEY	
SUPERVISOR	
NOTE BOOK	
TEMPLATE	
AREAS CHECKED	
NO.	

DATE	
BY	
ORIGINAL SURVEY	
SUPERVISOR	
NOTE BOOK	
TEMPLATE	
AREAS CHECKED	
NO.	



FAP RTE		SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
869		(105A)B-1	SALINE	71	57
STA. 1644+50.00			TO STA. 1646+00.00		
FED. ROAD DIST. NO.		ILLINOIS	FED. AID PROJECT		

SCALES
HORIZ.: 1"=10'
VERT.: 1"=5'

STA. 1646+00.00

STA. 1645+50.00

STA. 1645+00.00

STA. 1644+50.00

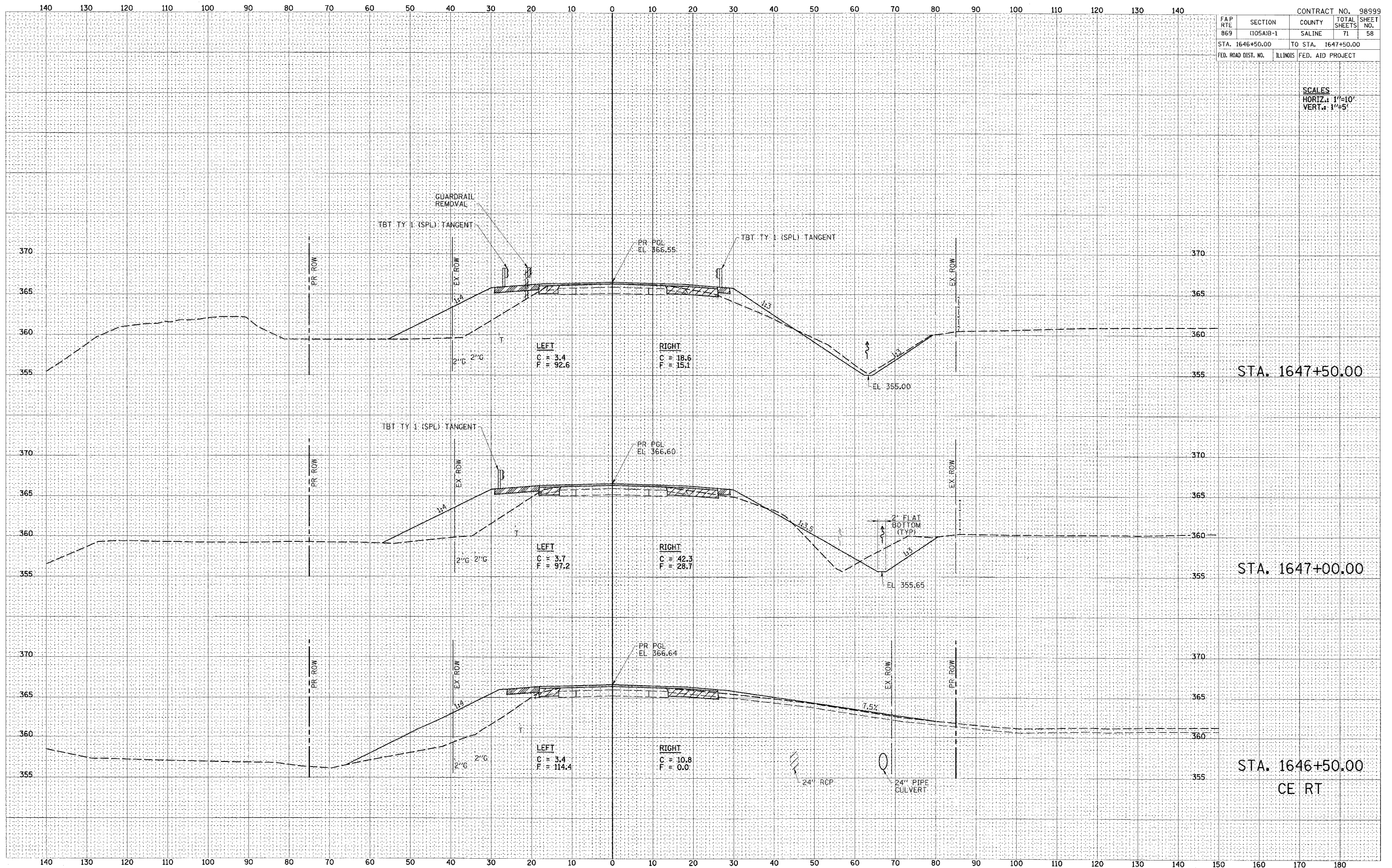


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SURVEYED	
NOTE BOOK	
TEMPLATE	
AREAS CHECKED	
NO.	

DATE	
BY	
ORIGINAL SURVEY	
SURVEYED	
NOTE BOOK	
TEMPLATE	
AREAS CHECKED	
NO.	

FAP RTE		SECTION		COUNTY		TOTAL SHEETS	
B69		(105A)B-1		SALINE		71	
STA. 1646+50.00		TO STA. 1647+50.00		ILLINOIS		FED. AID PROJECT	
FED. ROAD DIST. NO.		ILLINOIS		FED. AID PROJECT		CONTRACT NO. 98999	
						SHEET NO. 58	

SCALES
HORIZ.: 1"=10'
VERT.: 1"=5'



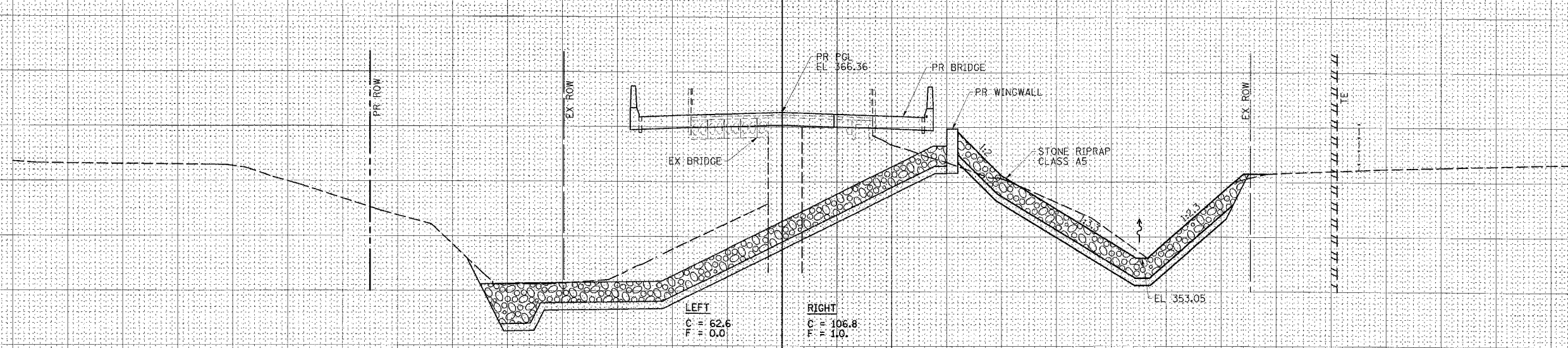


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SUBMITTED	
REVISION	
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DATE	
BY	
SUBMITTED	
REVISION	
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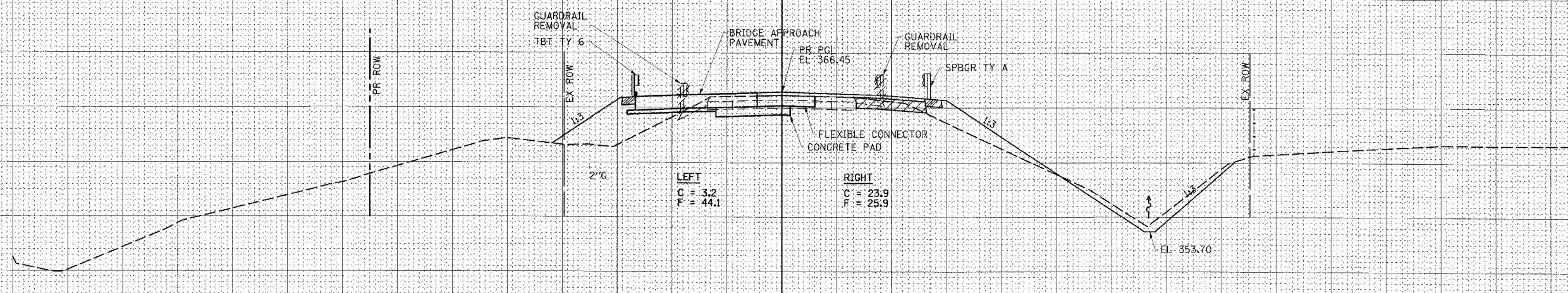
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REVISION	
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DATE	
BY	
SUBMITTED	
REVISION	
NO.	

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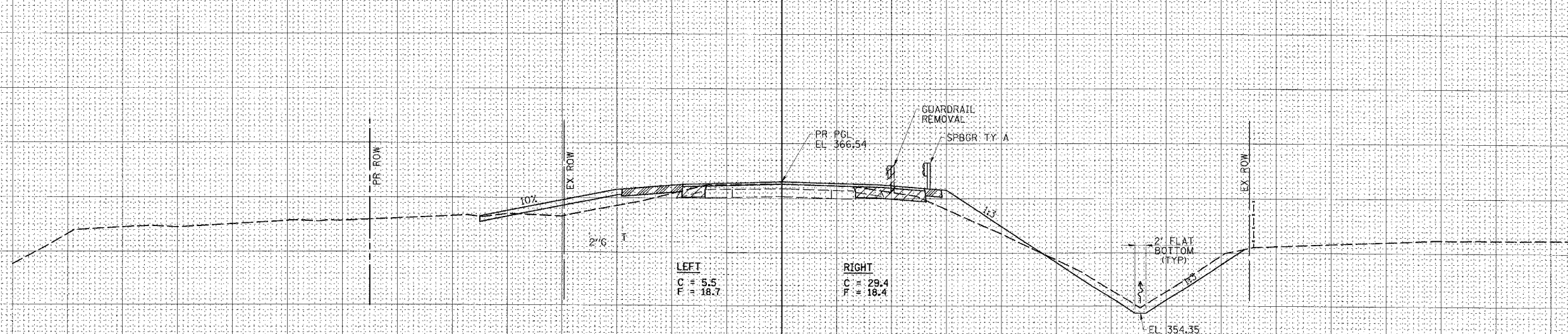
370 365 360 355 350



STA. 1649+00.00



STA. 1648+50.00



STA. 1648+00.00

FE LT

140 130 120 110 100 90 80 70 60 50 40 30 20 10 0 10 20 30 40 50 60 70 80 90 100 110 120 130 140

370 365 360 355 350

CONTRACT NO. 98999			
FAP RTE 869	SECTION (105A)B-1	COUNTY SALINE	TOTAL SHEETS 71
STA. 1648+00.00		TO STA. 1649+00.00	
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT	

SCALES
HORIZ. 1"=10'
VERT. 1"=5'

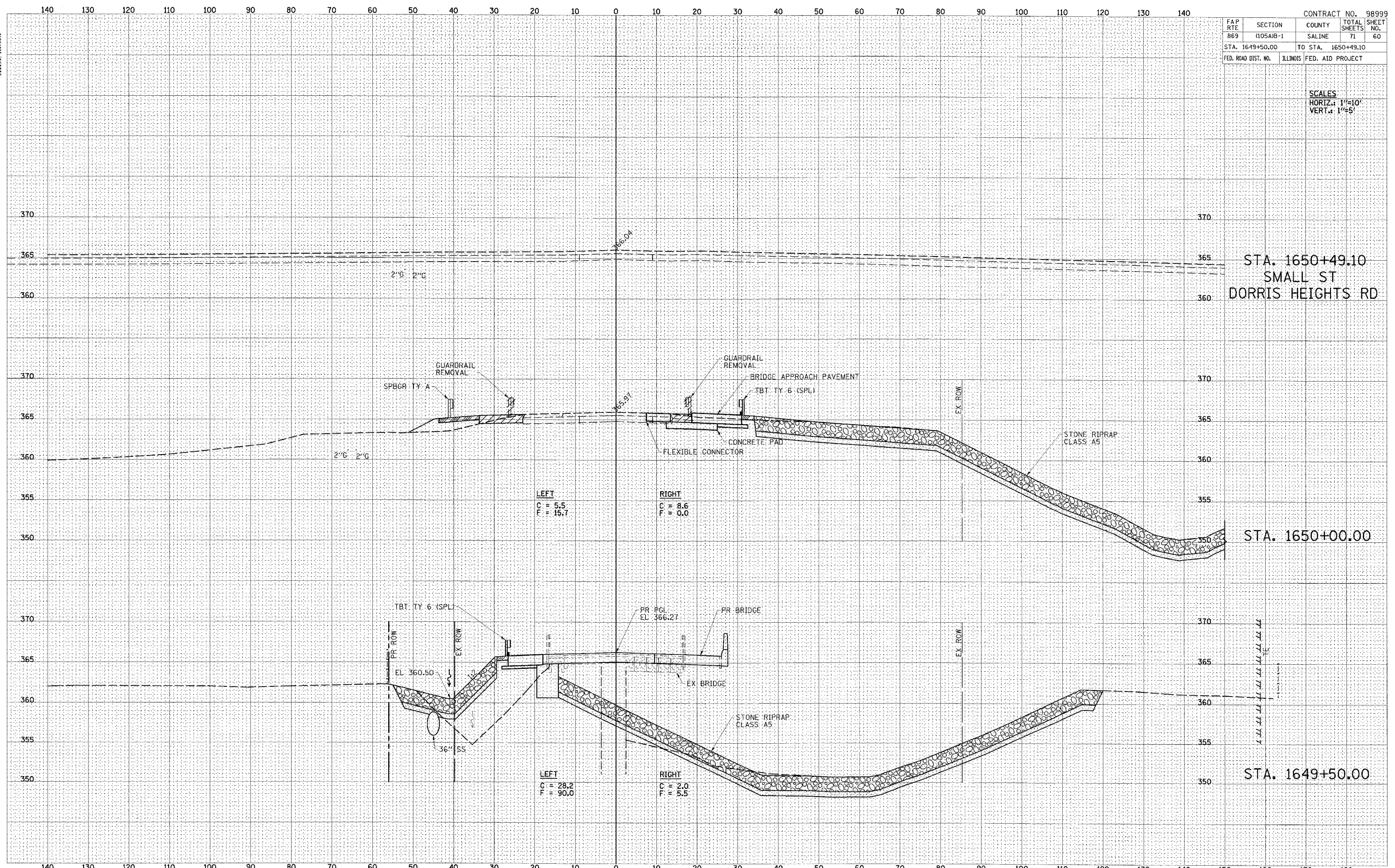


DATE	
BY	
FINAL SURVEY	
SHRIFTED	
NOTE BOOK	
TEMPLATE	
AREAS CHECKED	
NO.	

DATE	
BY	
ORIGINAL SURVEY	
SHRIFTED	
NOTE BOOK	
TEMPLATE	
AREAS CHECKED	
NO.	

FAP RTE		SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
869		(105A)B-1	SALINE	71	60
STA. 1649+50.00			TO STA. 1650+49.10		
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT			

SCALES
HORIZ.: 1"=10'
VERT.: 1"=5'



STA. 1650+49.10
SMALL ST
DORRIS HEIGHTS RD

STA. 1650+00.00

STA. 1649+50.00

LEFT
C = 5.5
F = 15.7

RIGHT
C = 8.6
F = 0.0

LEFT
C = 28.2
F = 90.0

RIGHT
C = 2.0
F = 5.5



FINAL SURVEY	SUPERVISED	DATE
NOTE BOOK	PLOTTED	BY
NO.	TEMPLATE	
	AREAS CHECKED	

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



CONTRACT NO. 98999				
FAP RTE	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
869	(105A)B-1	SALINE	71	61
STA. 1651+00.00		TO STA. 1652+50.00		
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		

SCALES
HORIZ.: 1"=10'
VERT.: 1"=5'

STA. 1652+50.00

STA. 1652+00.00

STA. 1651+50.00
CE RT

STA. 1651+00.00



DATE: _____ BY: _____
 SUPERVISED: _____
 SURVEY: _____
 NOTE BOOK: _____
 TEMPLATE: _____
 AREAS CHECKED: _____

DATE: _____ BY: _____
 SUPERVISED: _____
 SURVEY: _____
 NOTE BOOK: _____
 TEMPLATE: _____
 AREAS CHECKED: _____

140 130 120 110 100 90 80 70 60 50 40 30 20 10 0 10 20 30 40 50 60 70 80 90 100 110 120 130 140

370 365 360 355

370 365 360 355

370 365 360 355

370 365 360 355

370 365 360 355

370 365 360 355

370 365 360 355

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140 130 120 110 100 90 80 70 60 50 40 30 20 10 0 10 20 30 40 50 60 70 80 90 100 110 120 130 140

370 365 360 355

CONTRACT NO. 98999	
FAP RTE 869	SECTION (105A)B-1
COUNTY SALINE	TOTAL SHEETS 71
SHEET NO. 62	
STA. 1653+00.00	TO STA. 1654+50.00
FED. ROAD DIST. NO.	ILLINOIS FED. AID PROJECT

SCALES
 HORIZ. 1"=10'
 VERT. 1"=5'

STA. 1654+50.00

STA. 1654+00.00

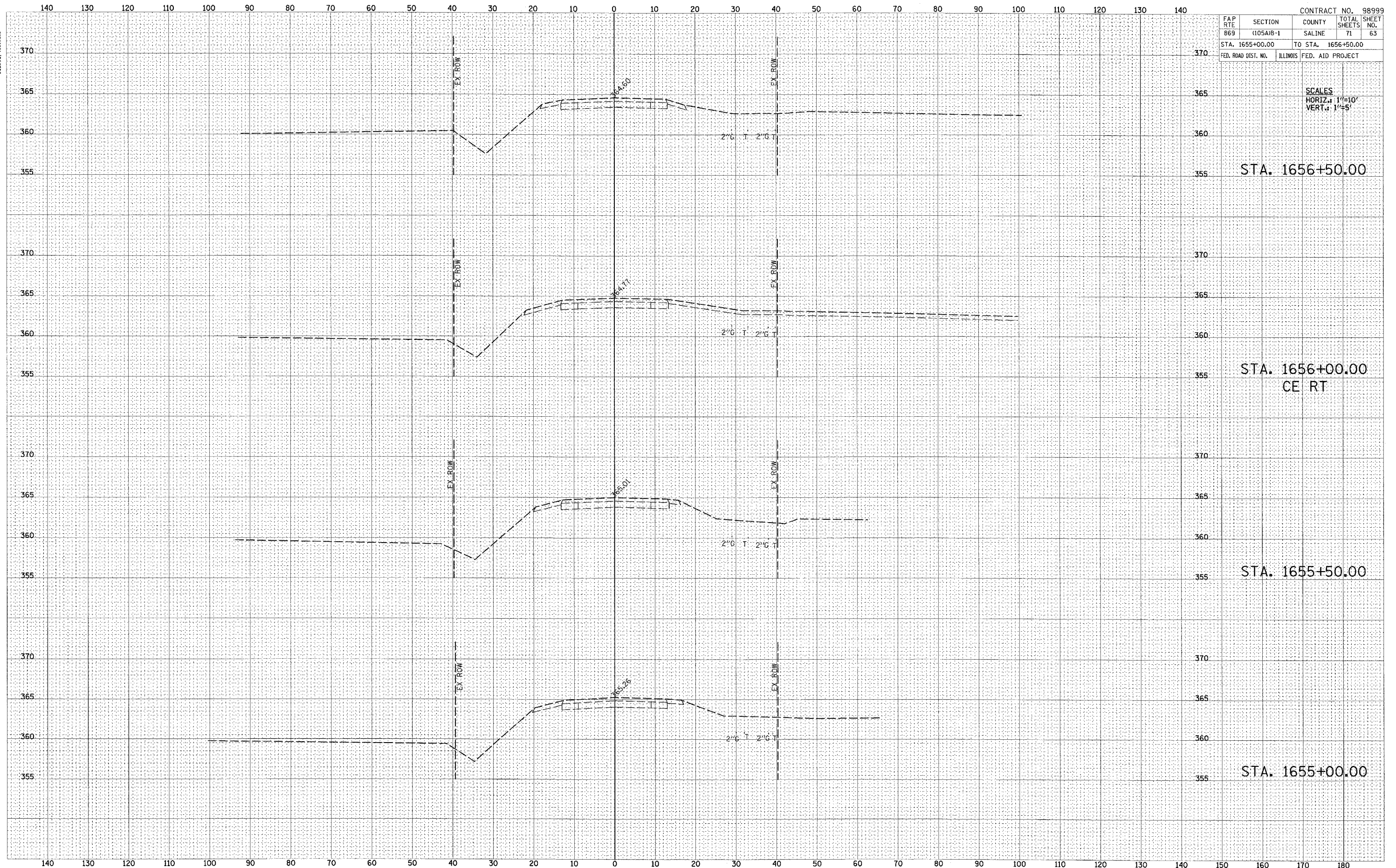
STA. 1653+50.00

STA. 1653+00.00
 CE RT



FINAL SURVEY BY: _____ DATE: _____
 SURVEYED BY: _____
 CHECKED BY: _____
 NO. _____

ORIGINAL SURVEY BY: _____ DATE: _____
 SURVEYED BY: _____
 CHECKED BY: _____
 NO. _____



CONTRACT NO. 98999				
FAP RTE	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
869	(105A)B-1	SALINE	71	63
STA. 1655+00.00		TO STA. 1656+50.00		
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		

SCALES
 HORIZ.: 1"=10'
 VERT.: 1"=5'

STA. 1656+50.00

STA. 1656+00.00
 CE RT

STA. 1655+50.00

STA. 1655+00.00



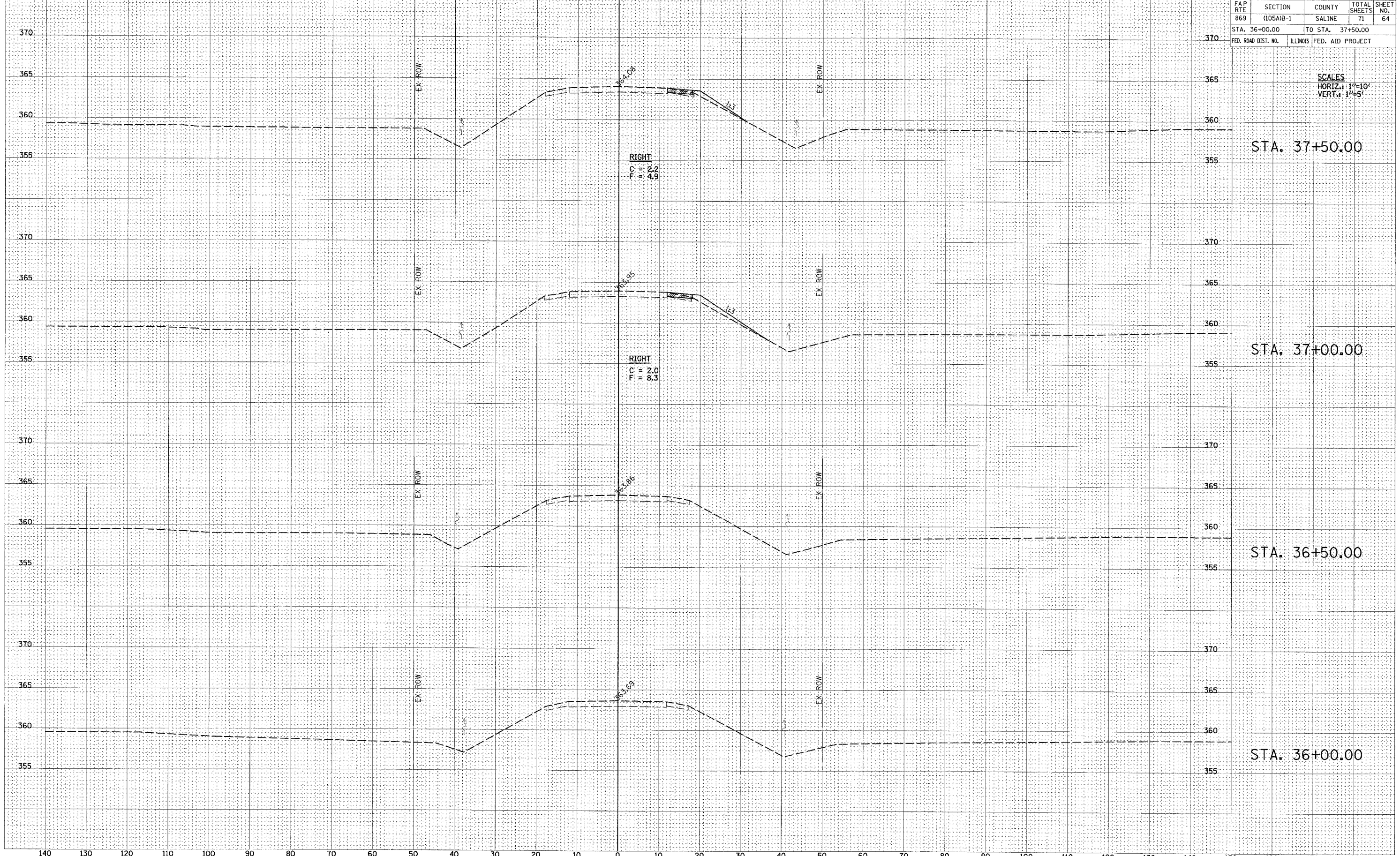
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TEMPLATE	
NOTE BOOK	
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DATE	
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NOTE BOOK	
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140 130 120 110 100 90 80 70 60 50 40 30 20 10 0 10 20 30 40 50 60 70 80 90 100 110 120 130 140

CONTRACT NO. 98999			
FAP RTE	SECTION	COUNTY	TOTAL SHEETS
869	(105A)B-1	SALINE	71
STA. 36+00.00		TO STA. 37+50.00	
ILLINOIS FED. AID PROJECT			

SCALES
HORIZ.: 1"=10'
VERT.: 1"=5'



STA. 37+50.00

STA. 37+00.00

STA. 36+50.00

STA. 36+00.00

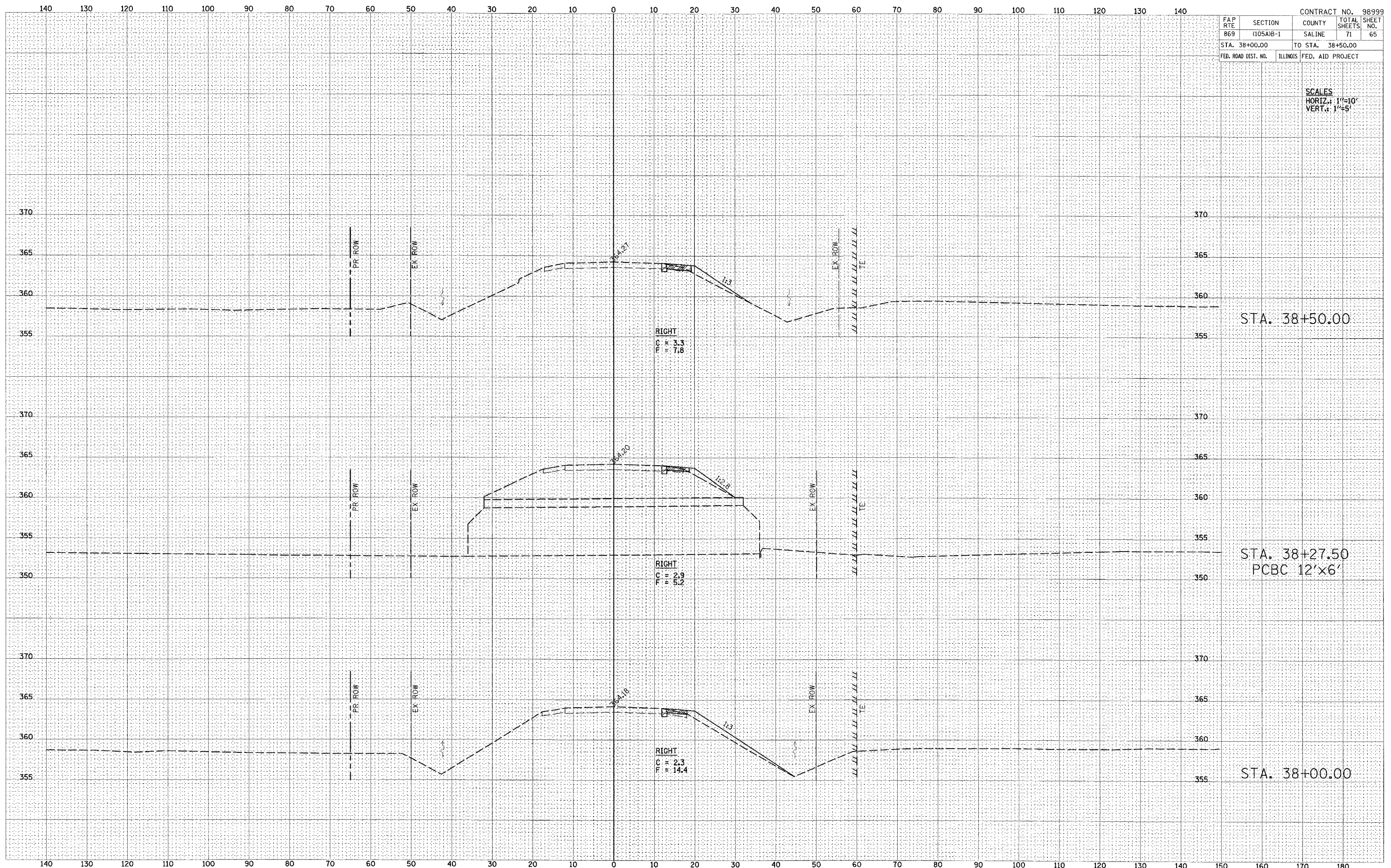


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 AREAS CHECKED: _____

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 SURVEYED: _____
 NOTE BOOK: _____
 TEMPLATE: _____
 AREAS CHECKED: _____

FAP RTE		SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
869		(105A)B-1	SALINE	71	65
STA. 38+00.00			TO STA. 38+50.00		
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT			

SCALES
 HORIZ.: 1"=10'
 VERT.: 1"=5'



STA. 38+50.00

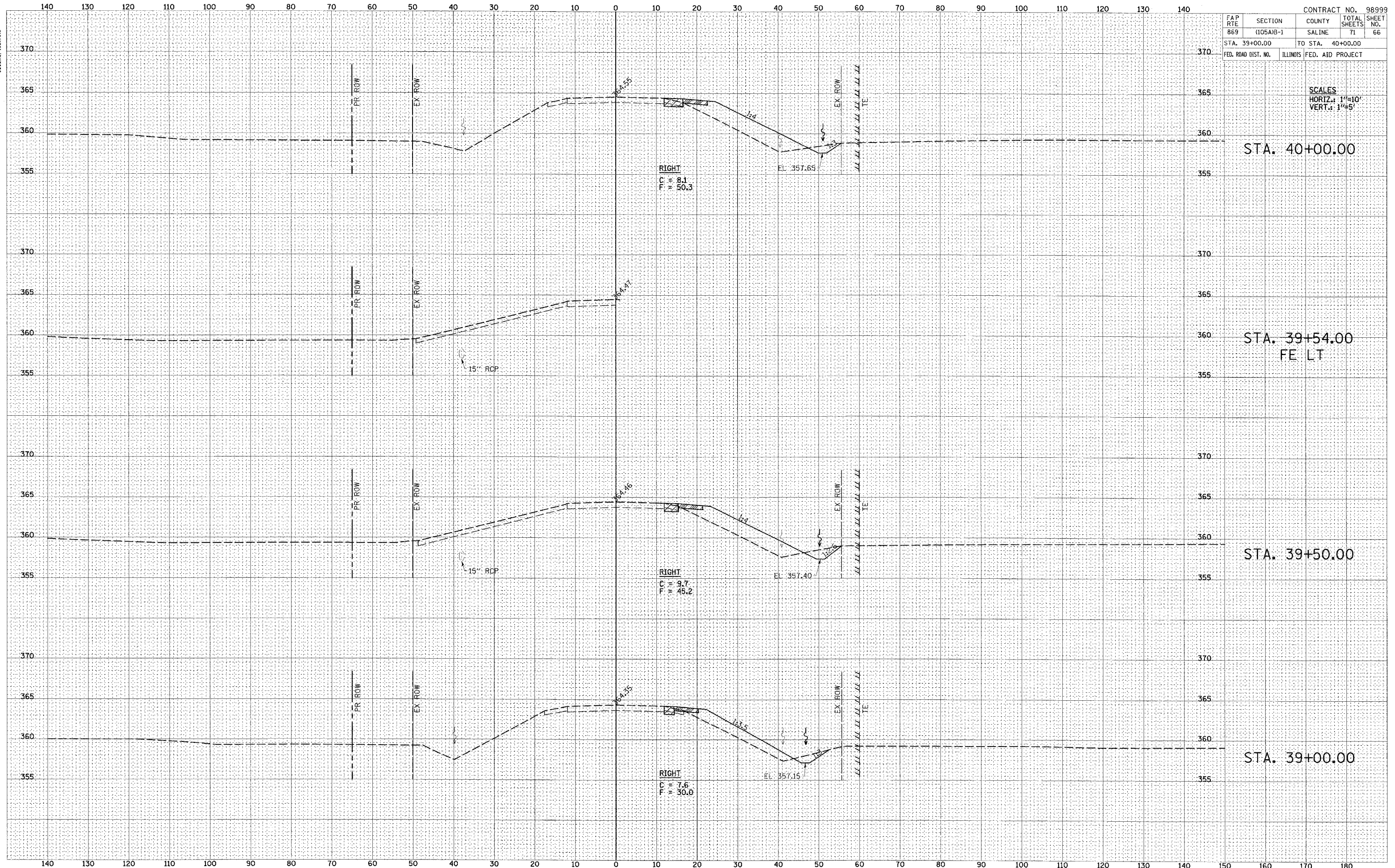
STA. 38+27.50
 PCBC 12'x6'

STA. 38+00.00



FINAL SURVEY	DATE
SURVEYED	BY
NOTE BOOK	
TEMPLATE	
AREAS CHECKED	
NO.	

ORIGINAL SURVEY	DATE
SURVEYED	BY
NOTE BOOK	
TEMPLATE	
AREAS CHECKED	
NO.	



FAP RTE		SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
869		(105A)B-1	SALINE	71	66
STA. 39+00.00			TO STA. 40+00.00		
FED. ROAD DIST. NO.		ILLINOIS	FED. AID PROJECT		

SCALES
HORIZ.: 1"=10'
VERT.: 1"=5'

STA. 40+00.00

STA. 39+54.00
FE LT

STA. 39+50.00

STA. 39+00.00

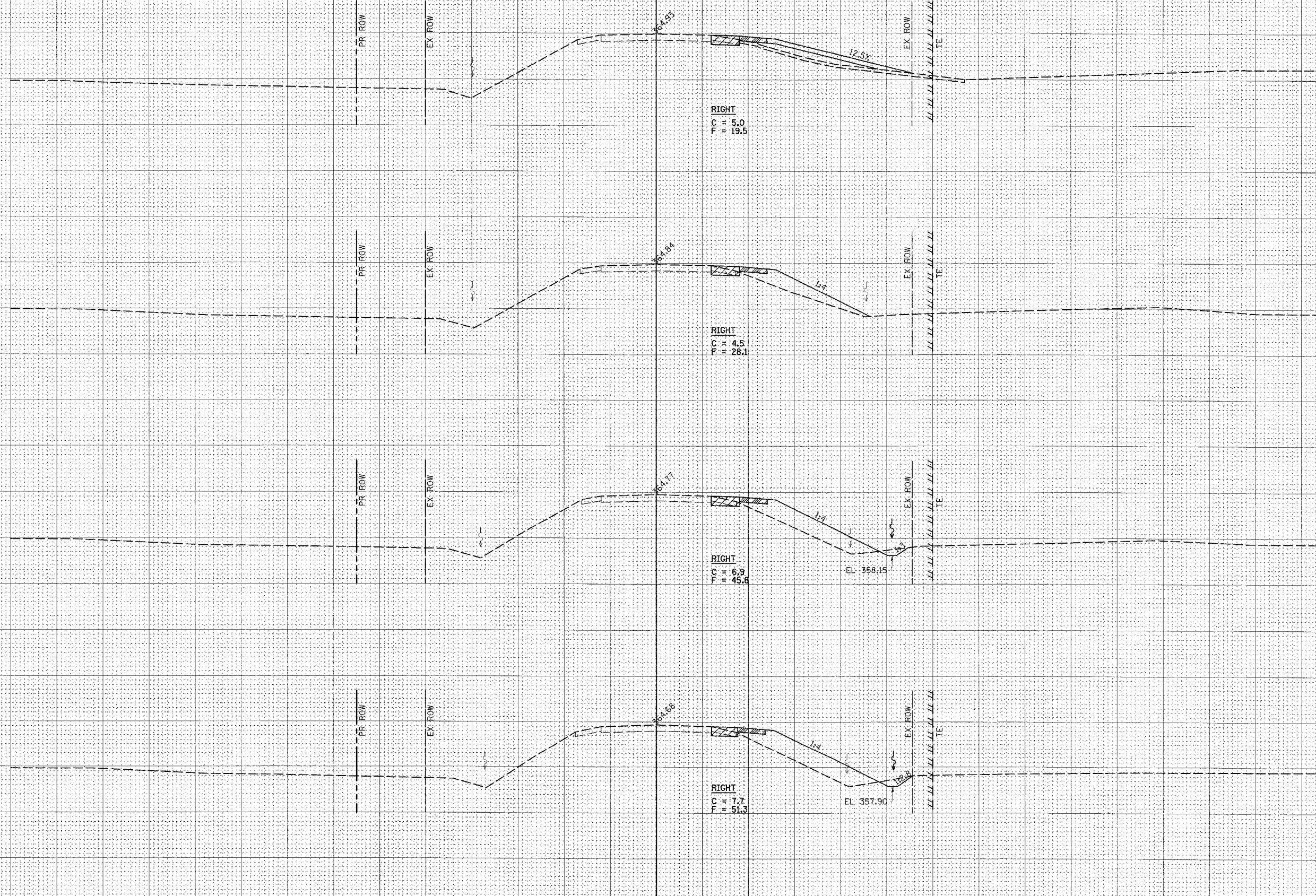


DATE	
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REVISION	
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REVISION	
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DATE	
BY	
REVISION	
NO.	

140 130 120 110 100 90 80 70 60 50 40 30 20 10 0 10 20 30 40 50 60 70 80 90 100 110 120 130 140

370 365 360 355 370 365 360 355 370 365 360 355 370 365 360 355



CONTRACT NO. 98999				
FAP RTE 869	SECTION (105A)B-1	COUNTY SALINE	TOTAL SHEETS 71	SHEET NO. 67
STA. 40+50.00		TO STA. 42+00.00		
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		

SCALES
HORIZ.: 1"=10'
VERT.: 1"=5'

STA. 42+00.00
CE RT

STA. 41+50.00

STA. 41+00.00

STA. 40+50.00



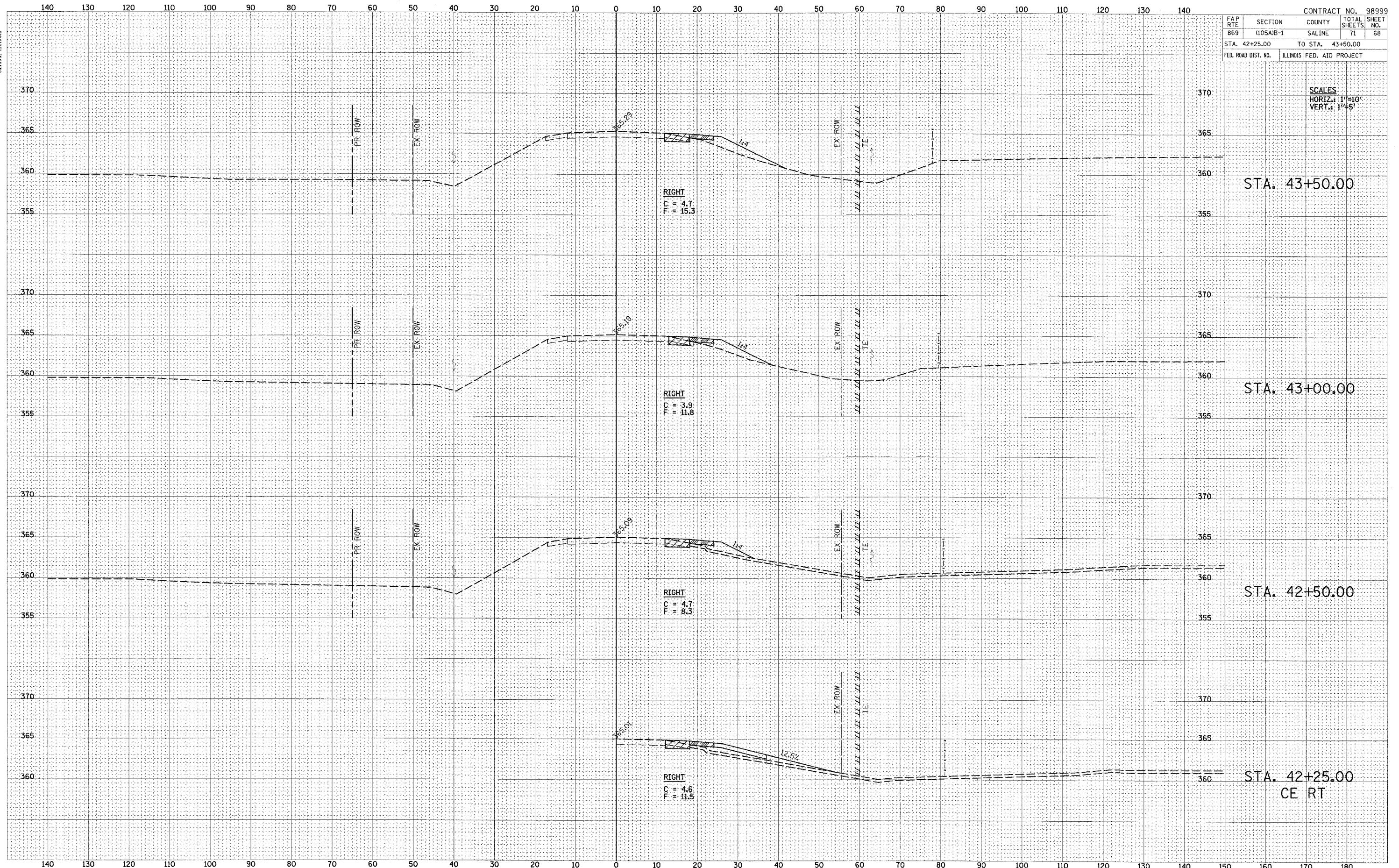
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FAP	SECTION	COUNTY	TOTAL	SHEET
RTE	(105A)B-1	SALINE	SHEETS	NO.
869			71	68
STA. 42+25.00		TO STA. 43+50.00		
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		

CONTRACT NO. 98999

SCALES
HORIZ.: 1"=10'
VERT.: 1"=5'



STA. 43+50.00

STA. 43+00.00

STA. 42+50.00

STA. 42+25.00
CE RT

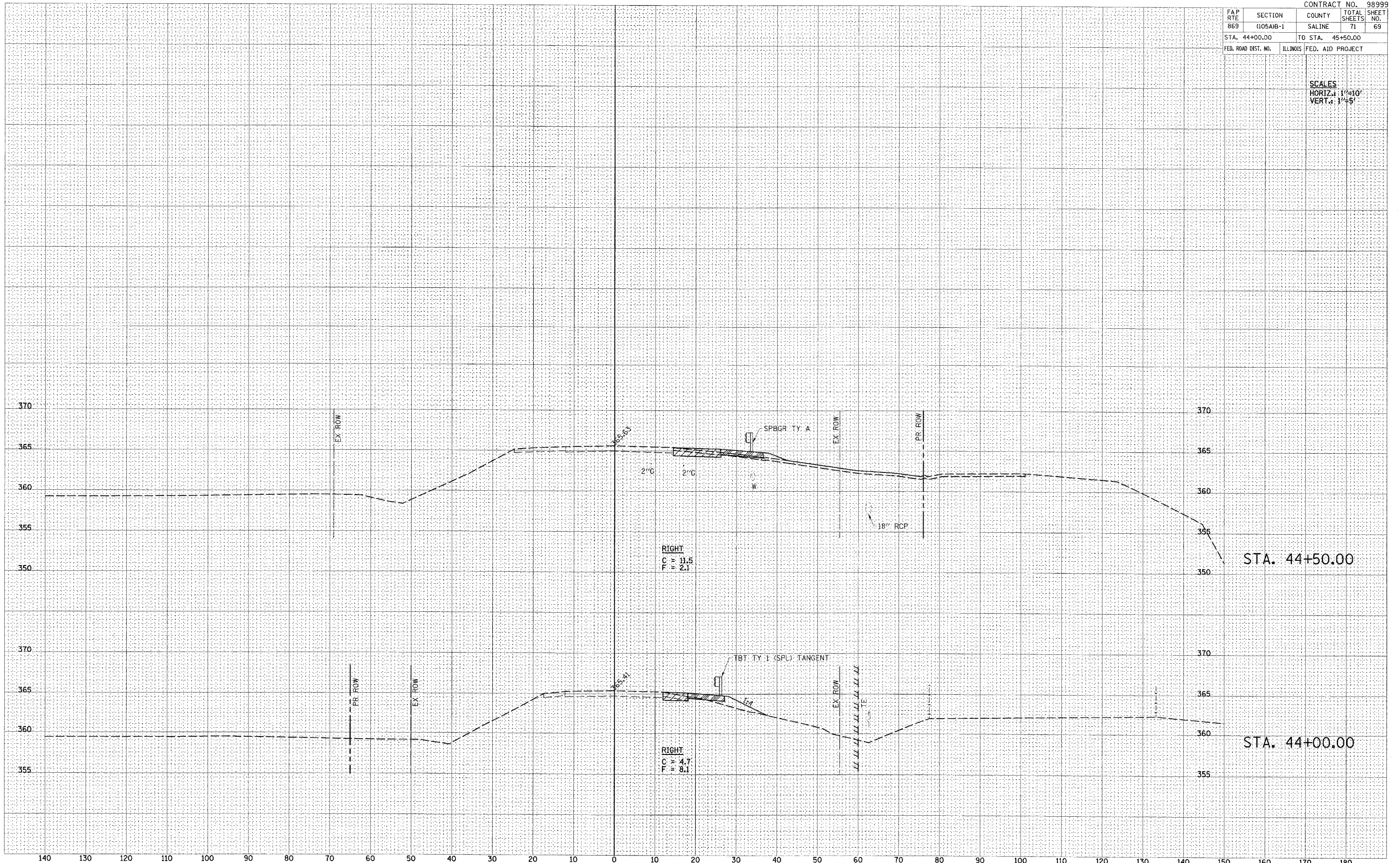


FINAL SURVEY	DATE
NOTE BOOK	BY
AREAS CHECKED	
AREAS CHECKED	

ORIGINAL SURVEY	DATE
NOTE BOOK	BY
AREAS CHECKED	
AREAS CHECKED	

CONTRACT NO. 98999				
FAP RTE	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
869	005AB-1	SALINE	71	69
STA. 44+00.00		TO STA. 45+50.00		
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		

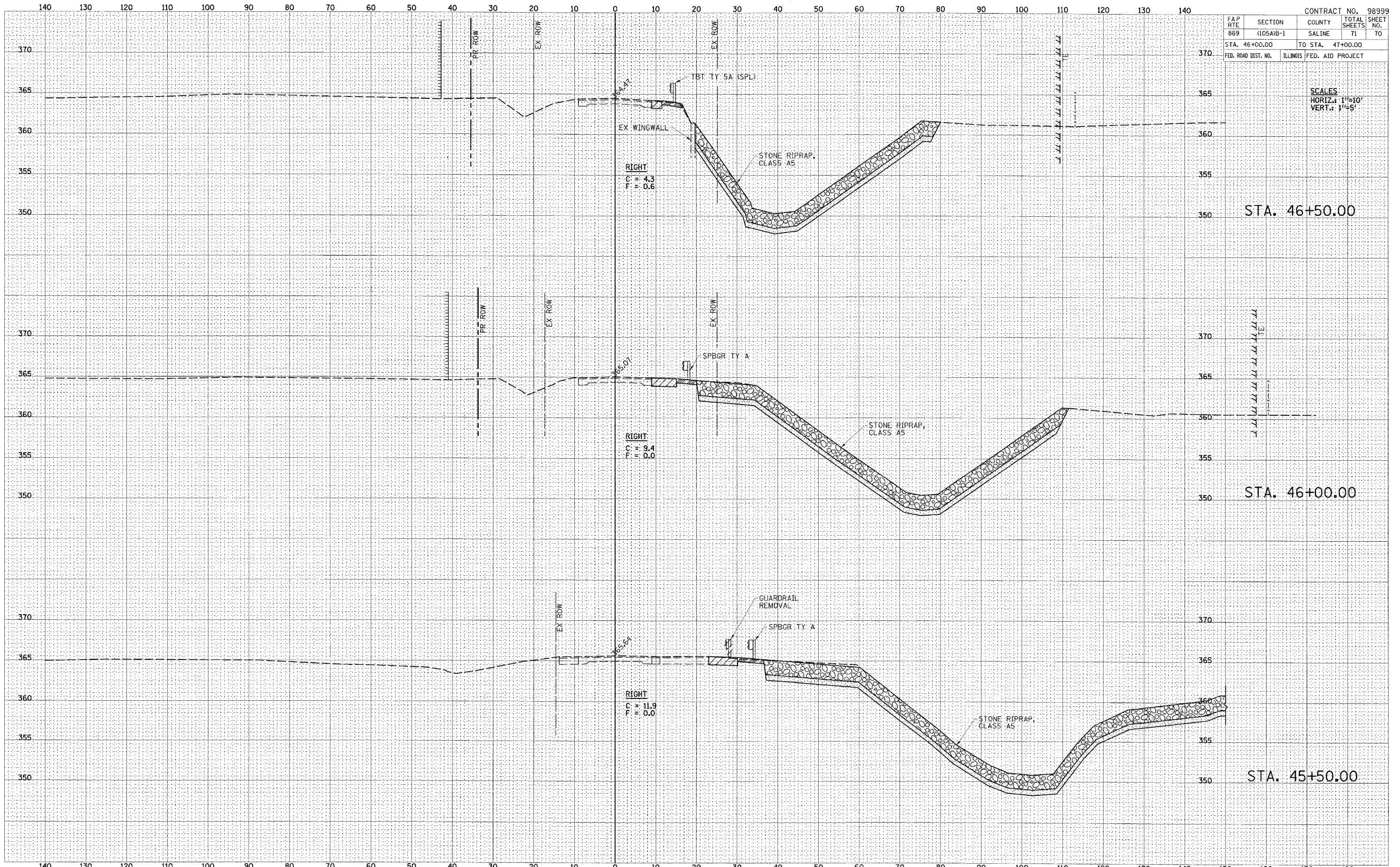
SCALES
HORIZ.: 1"=10'
VERT.: 1"=5'





DATE	
BY	
FINAL SURVEY	
SUBMITTED	
NOTE BOOK	
TEMPLATE	
AREAS CHECKED	
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DATE	
BY	
ORIGINAL SURVEY	
SUBMITTED	
NOTE BOOK	
TEMPLATE	
AREAS CHECKED	
NO.	



CONTRACT NO. 98999	
FAP RTE 869	SECTION (105A)B-1
COUNTY SALINE	TOTAL SHEETS 71
STA. 46+00.00	TO STA. 47+00.00
FED. ROAD DIST. NO.	ILLINOIS FED. AID PROJECT

SCALES
HORIZ.: 1"=10'
VERT.: 1"=5'

STA. 46+50.00

STA. 46+00.00

STA. 45+50.00

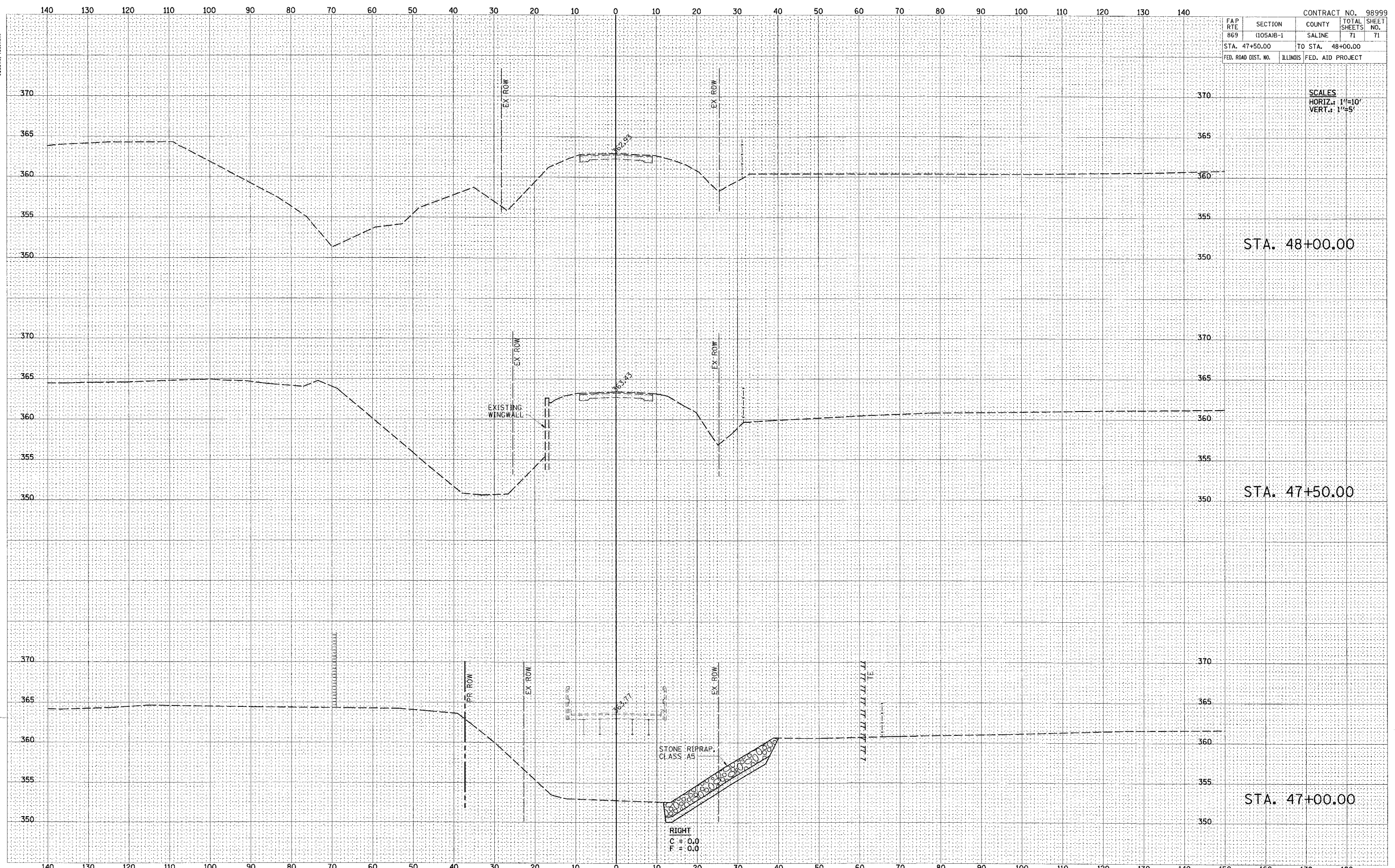


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BY	
FINAL SURVEY	
NOTED	
TEMPLATE	
NOTE BOOK	
AREAS CHECKED	

DATE	
BY	
ORIGINAL SURVEY	
NOTED	
TEMPLATE	
NOTE BOOK	
AREAS CHECKED	

FAP RTE	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
869	(105A)B-1	SALINE	71	71
STA. 47+50.00		TO STA. 48+00.00		
FED. ROAD DIST. NO.		ILLINOIS FED. AID PROJECT		

SCALES
HORIZ.: 1"=10'
VERT.: 1"=5'



STA. 48+00.00

STA. 47+50.00

STA. 47+00.00