 F.A.I. RTE.	SECTIO	NC	COUN	TY	TOTAL SHEETS	SHEET NO.
74	*		TAZEW	ELL	1366	1301
STA.			O STA.			
FED. RO	DAD DIST. N	NO.	ILLINOIS	FED.	AID PROJ	ECT

* (90-11)R-2;90(13,14,14-1)R-1 CONTRACT NO. 68201

6-21

East Washington St 3/4 North Main Street 11/2 Riverfront Drive 21/4

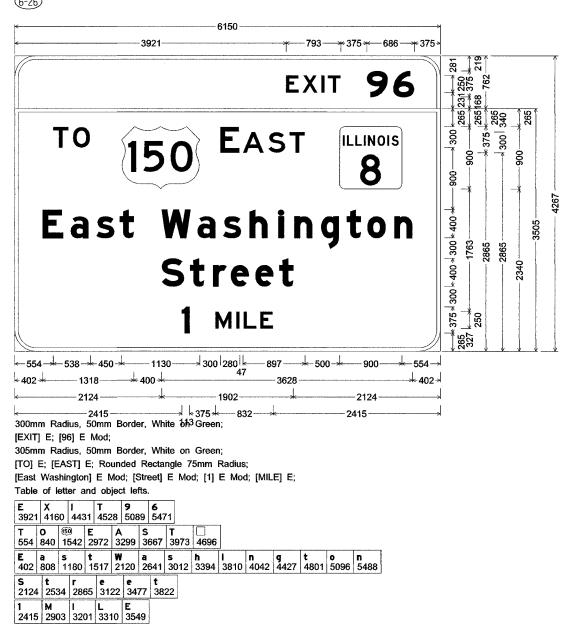
∗331 ×	1087 330	2993	330 - 505 330 - 513 - 331
€331	1398 330	-1171	568 646 * 645 * 331
∗331 >	←2633	─────────────────────────────────────	
		6750	

250mm Radius, 50mm Border, White on Green;

[East Washington St] E Mod; [%] E Mod; [North Main Street] E Mod; [$1\frac{1}{2}$] E Mod; [Riverfront Drive] E Mod; [$2\frac{1}{3}$] E Mod;

Table of letter and object lefts.

E	a	s	t	W	a	s	h	i	n	g	t	o	n	S 5071	t	3/4
331	666	972	1250	1748	2178	2484	2799	3143	3334	3651	3960	4203	4526		5409	5906
N	o	r	t	h	M	a	1	n	S 356	0 t	r	e	e	t	1	1/2
331	713	1037	7 1242	2 151	2059	248:	282	4 301		0 389	8 417	1 438:	3 467	6 496	1 577	4 5959
R	i	v	e	r	f	r	o	n	t	D	r	i	v	e	2	1/4
331	711	868	1182	1502	1712	1951	2164	2487	2796	3294	3673	3914	4071	4386	5633	5986

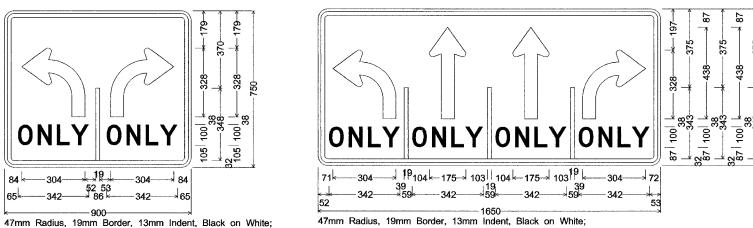


SIGNING SHEET 50 OF 74

REVISIONS		TI I TNOTS	DEPARTMEN	MT O	OF TRANSPORTATION					
NAME	DATE	ILLINOIS	DEI AITTWEI	V 1 O1	TRANSIC	JIVI AT TON				
			SIGNIN SIGN PAN							
		SCALE 1:500 DATE 12/21			DRAWN BY	GRS BCG				

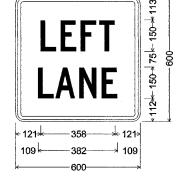
Vathensidadi160252ipian sheets\div/contract 11\sd111 12/21/2004





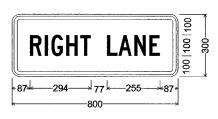
[ONLY] D; [ONLY] D; [ONLY] D;

DETAIL B



38mm Radius, 16mm Border, 9mm Indent, Black on White; [LEFT] C 77% spacing; [LANE] C 77% spacing;

DETAIL C

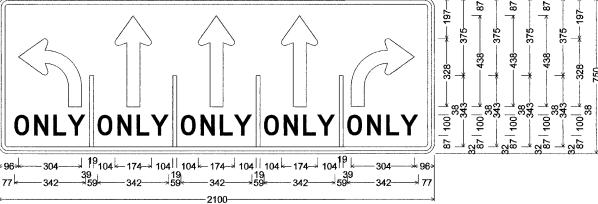


DETAIL A

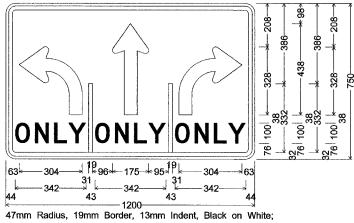
[ONLY] D; [ONLY] D;

38mm Radius, 16mm Border, 9mm Indent, Black on White; [RIGHT LANE] Font C 77% spacing;

DETAIL D



47mm Radius, 19mm Border, 13mm Indent, Black on White; [ONLY] D; [ONLY] D; [ONLY] D; [ONLY] D;

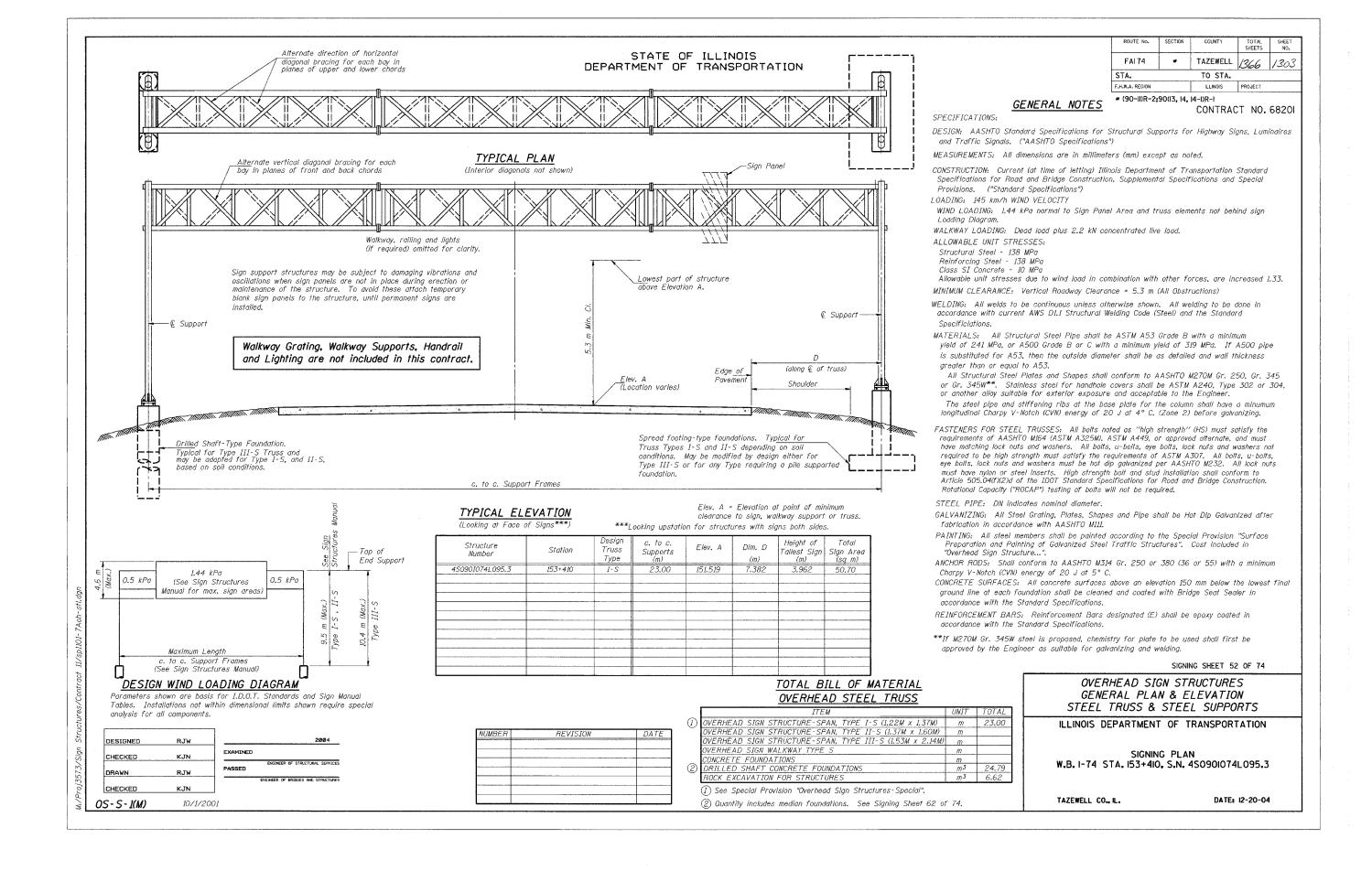


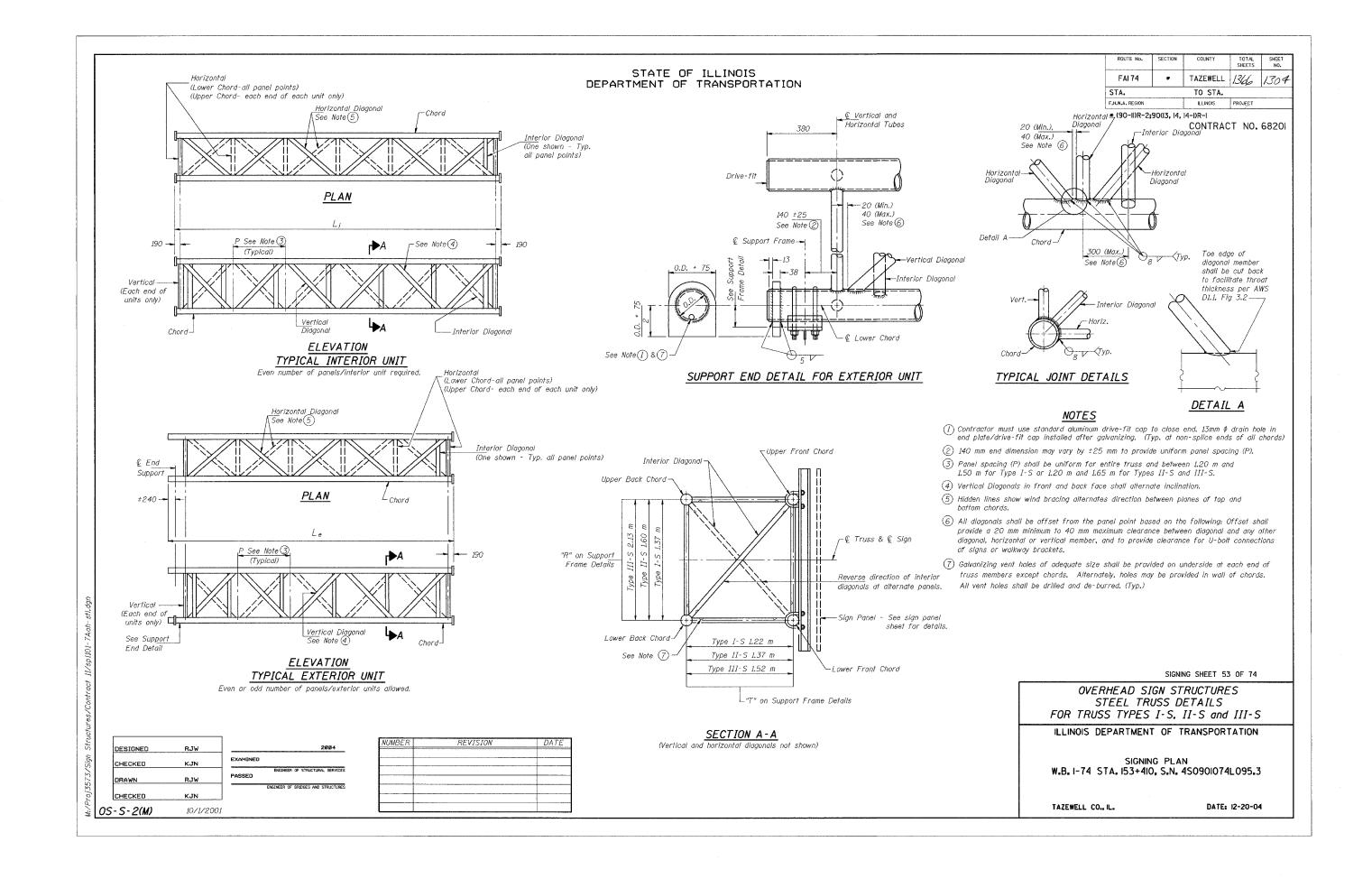
[ONLY] D; [ONLY] D; [ONLY] D;

DETAIL F

SIGNING SHEET 51 OF 74 ILLINOIS DEPARTMENT OF TRANSPORTATION SIGNING PLAN SIGN PANEL DETAILS SCALE 1:500 DRAWN BY GRS DATE 12/21/2004 CHECKED BY BCG

DETAIL E



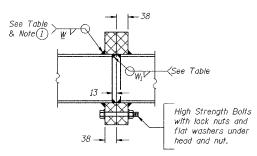


STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION

TRUSS UNIT TABLE

611	GL 41	Desire		ior Units (Interio	r Unit		1/2-2-2 8 1 2:		16-mbis de discri	mandala Mandia of	0			Collaine	a Flange		
Structure Number	Station	Design Truss Type	No. Panels per Unit	Unit Lgth.(Le)	Panel Lgth.(P)	No. Rea'd.	No. Panels per Unit	$Lgth.(L_i)$				Horizontal, and	zontals; Vertical, Interior Diagonals	Camber at Midspan	HS E	Bolts	Weld	Sizes	1	D
		1,750		(m)	(m)			(m)	(m)	Nom. pipe size	Wall	Nom. pipe size	Wall		No./Splice	Dia.	W	W_I	_ ^	υ
4S090I074L095.3	153+410	I-S	8	11.730	1.395	0				127	6.5	64	5. <i>2</i>	44	6	22 ø	10	6	230	311
		1														1				
					1															
AMERICA I									-											
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									-						1	1	 	t		
			1											<u> </u>	 	 	<u> </u>			
	1	1	II .	i	: 1	1	1	1	1	0	1	1		1	11	1	1		. ,	

2 units



SECTION B-B

1 Splicing Flanges shall be attached to each truss unit with the truss shop assembled to camber shown. Truss units shall be in proper alignment and flange surfaces shall be shop bolted into full contact before welding. Sufficient external welds or tacks shall be made to secure flanges until remaining welds are made after disassembly. Adjacent flanges shall be "match marked" to insure proper field assembly.

NUMBER	REVISION	DATE

DESIGNED	RJW	2004
CHECKED	KJN	EXAMINED
		ENGINEER OF STRUCTURAL SERVICE
DRAWN	RJW	PASSED
		ENGINEER OF BRIDGES AND STRUCTURE
CHECKED	KJN	

10/1/2001

Splicing Flange-*─Upper Chord* ←Horizontal Diagonal Vertical (Each end of units only) Vertical Diagonal Interior Diagonal -ISOMETRIC VIEW TYPICAL TRUSS UNIT

Lower Chord Note: Units shall be shipped individually with adequate provision to prevent detrimental motion during transport. This may require ropes between horizontals and diagonals or energy dissipating (elastic) ties to the vehicle. The Contractor is responsible for maintaining the configuration and protection of the units. ∠ Horizontal

protection of the units.

4 units

c to c of support frame Camber required See table.

(Lower Chord - all panel points)

(Upper Chord - each end of each unit only)

CAMBER DIAGRAM

Camber curve shown is theoretical. Actual camber attained by slope changes at splices between units.

3 units

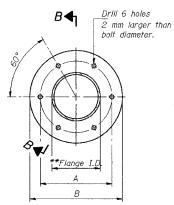
CAMBER ATTAINMENT	EXAMPLES:	camber at midspan	
camber <u>at</u> midspan	camb <u>er at</u> midspan	2/3 camber at midspan	2/3 cambe at midspan

Camber shown is for fabrication only, measured with truss fully supported. (No-load condition)

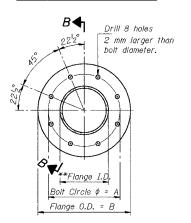
ROUTE No.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.			
FAI74	*	TAZEWELL	1366	1305			
STA.		TO STA.	<u> </u>				
F.H.W.A. REGION		ILLINOIS	PROJECT				

(90-II)R-2;90(I3, I4, I4-I)R-I

CONTRACT NO. 68201



TRUSS TYPES I-S. II-S. & III-S



TRUSS TYPES II-S & III-S SPLICING FLANGES

**To fit O.D. of Chord with maximum gap of 2 mm.

SIGNING SHEET 54 OF 74

OVERHEAD SIGN STRUCTURES STEEL TRUSS DETAILS FOR TRUSS TYPES I-S, II-S and III-S

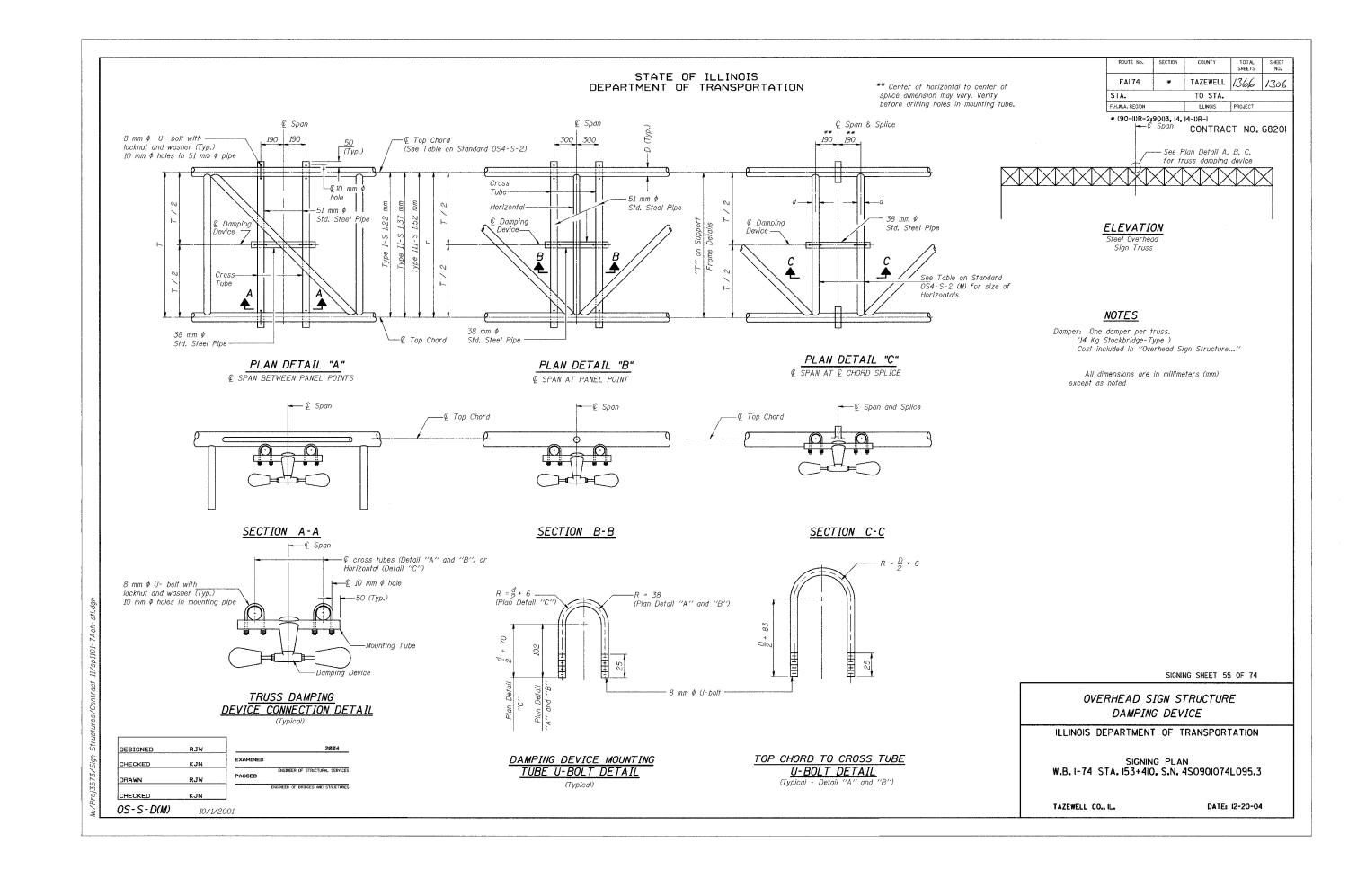
ILLINOIS DEPARTMENT OF TRANSPORTATION

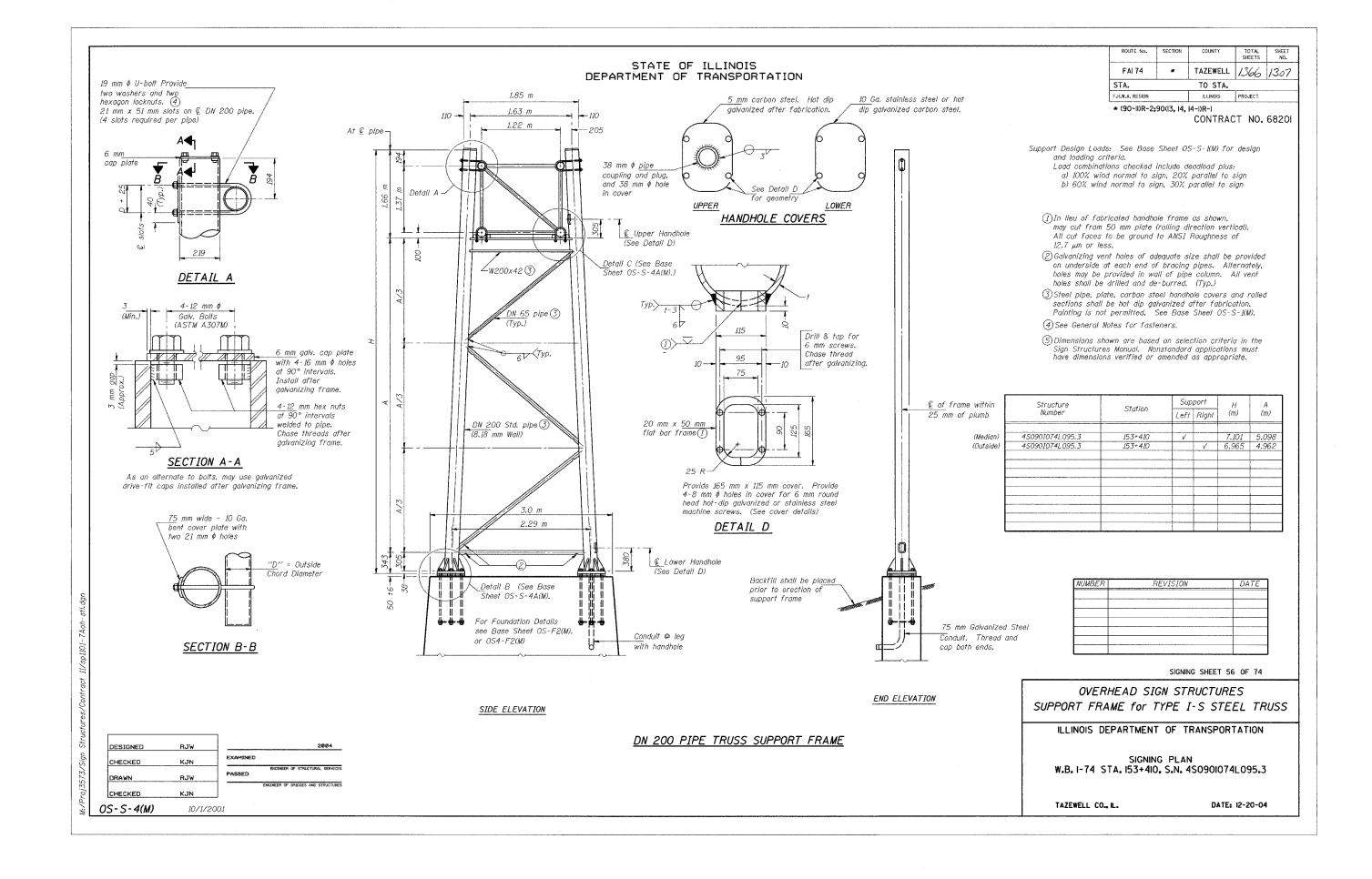
SIGNING PLAN W.B. 1-74 STA. 153+410, S.N. 4S0901074L095.3

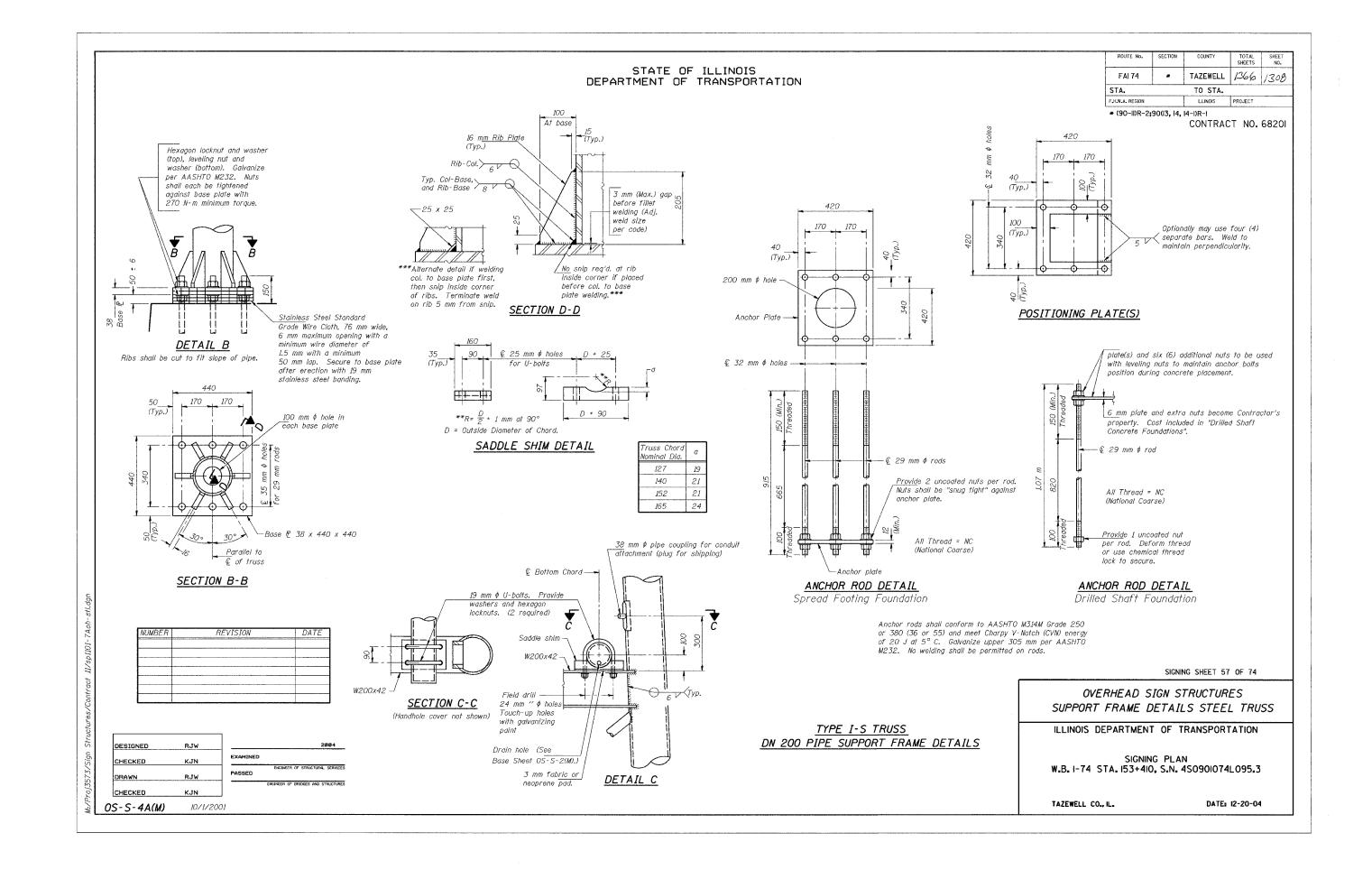
TAZEWELL CO., IL.

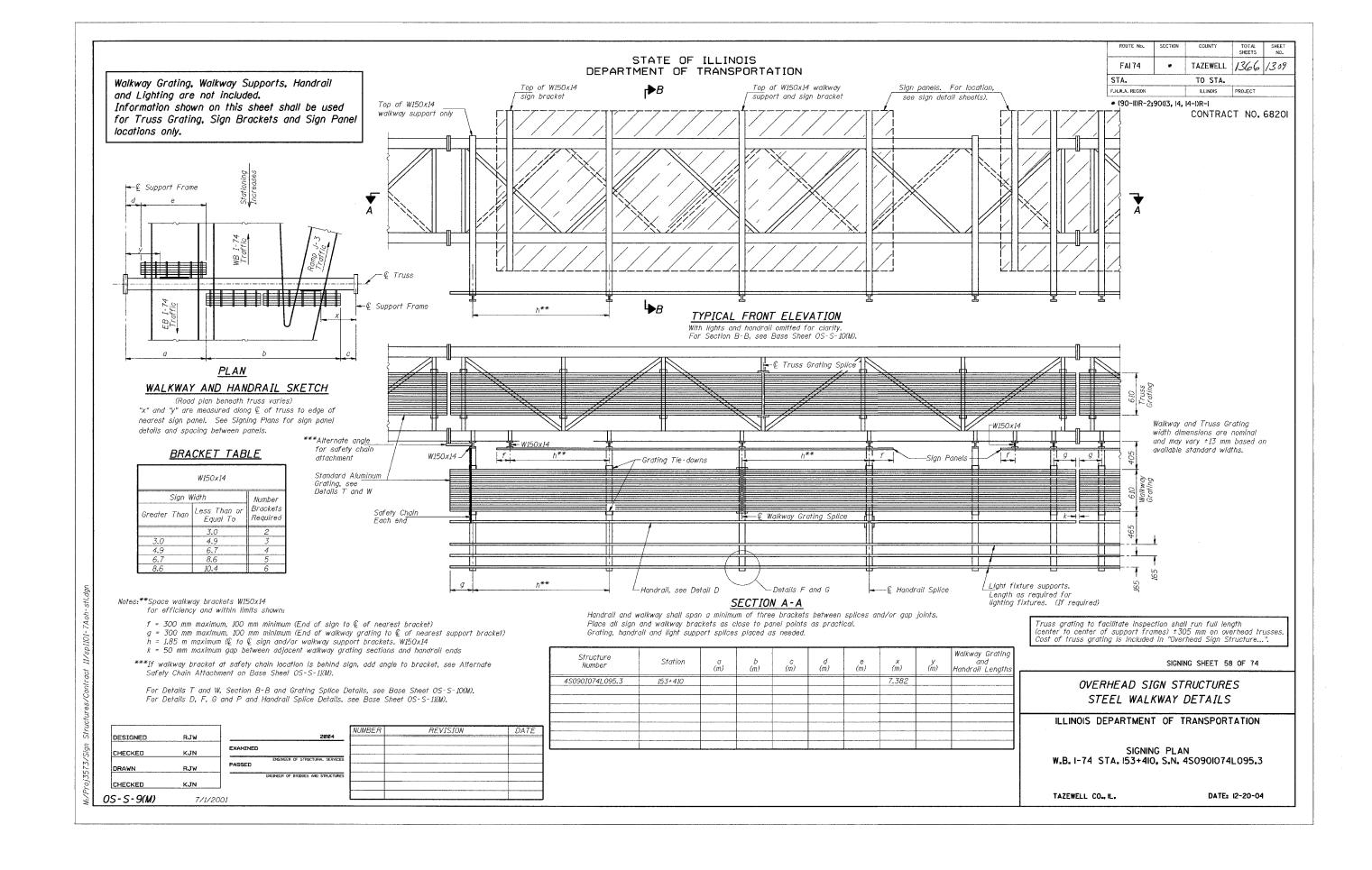
DATE: 12-20-04

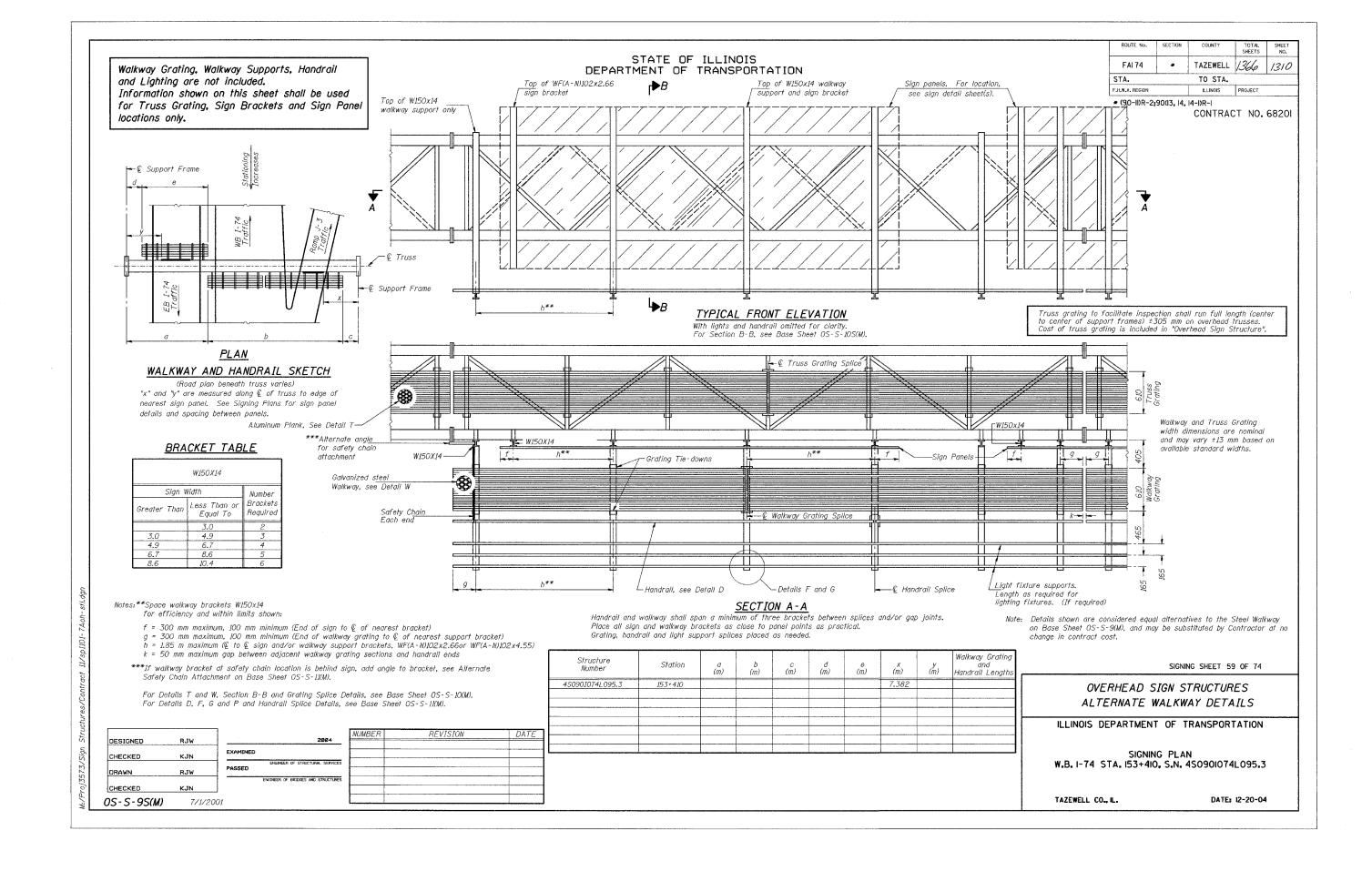
0S4-S-2(M)

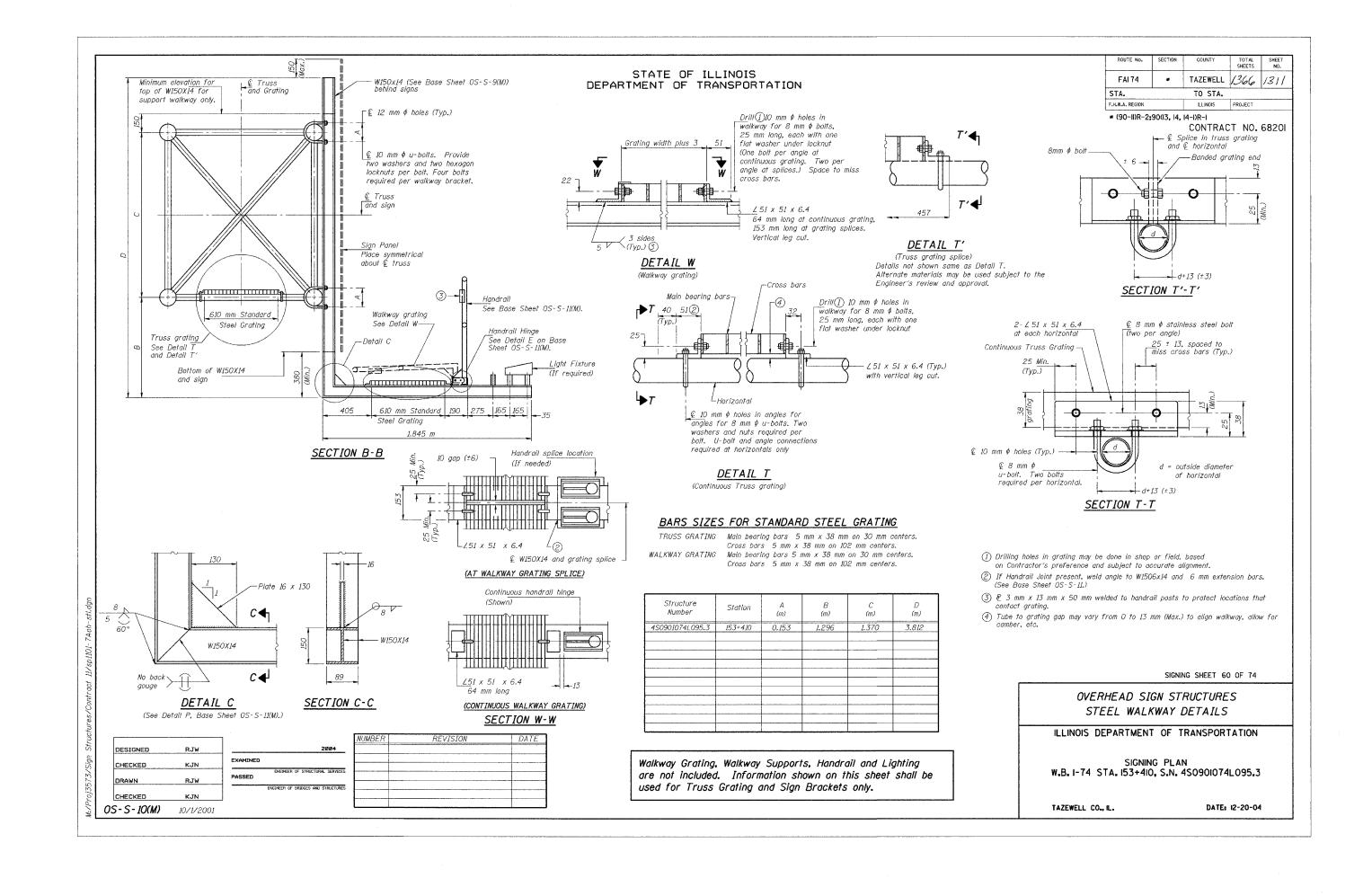


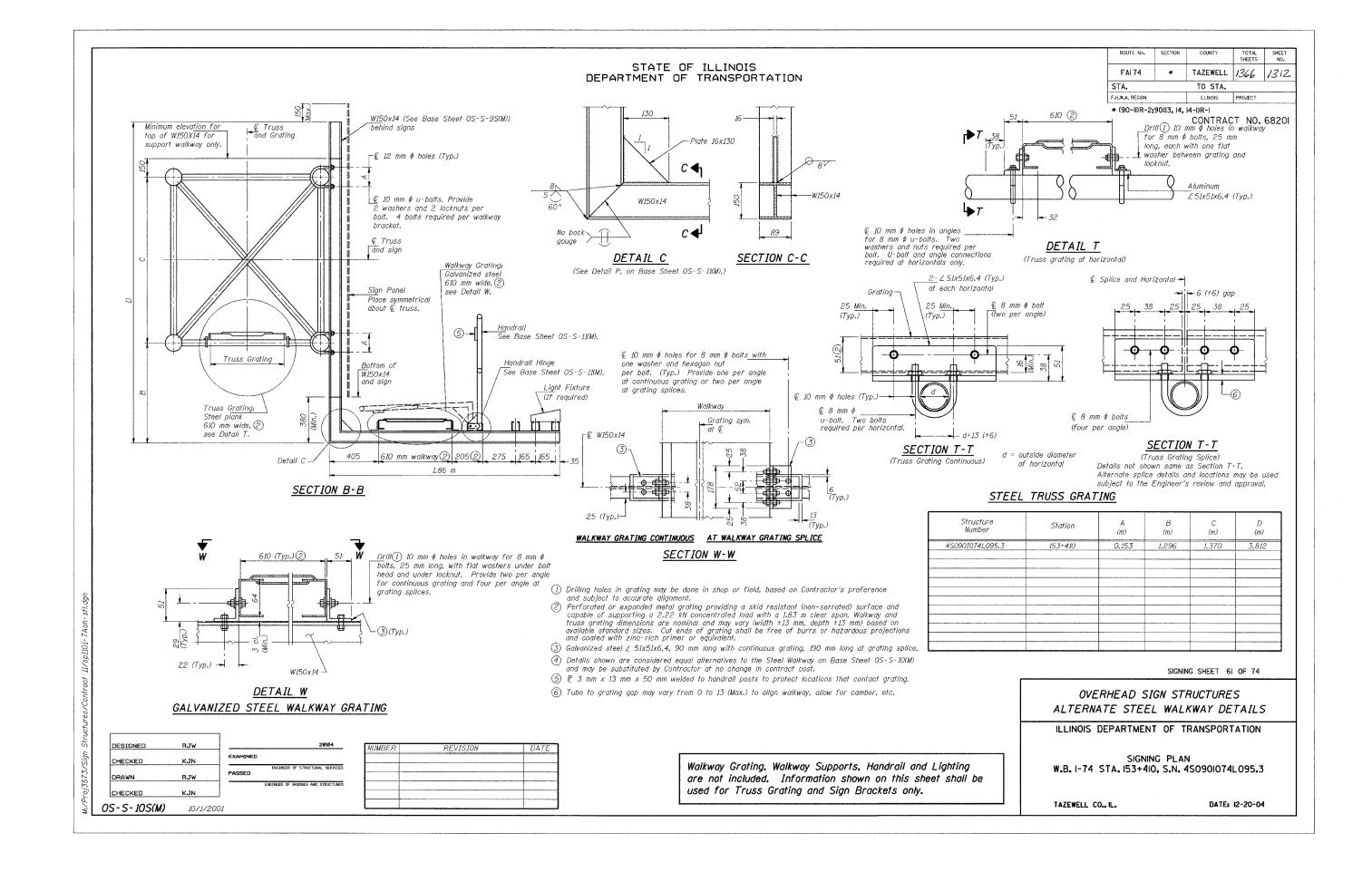


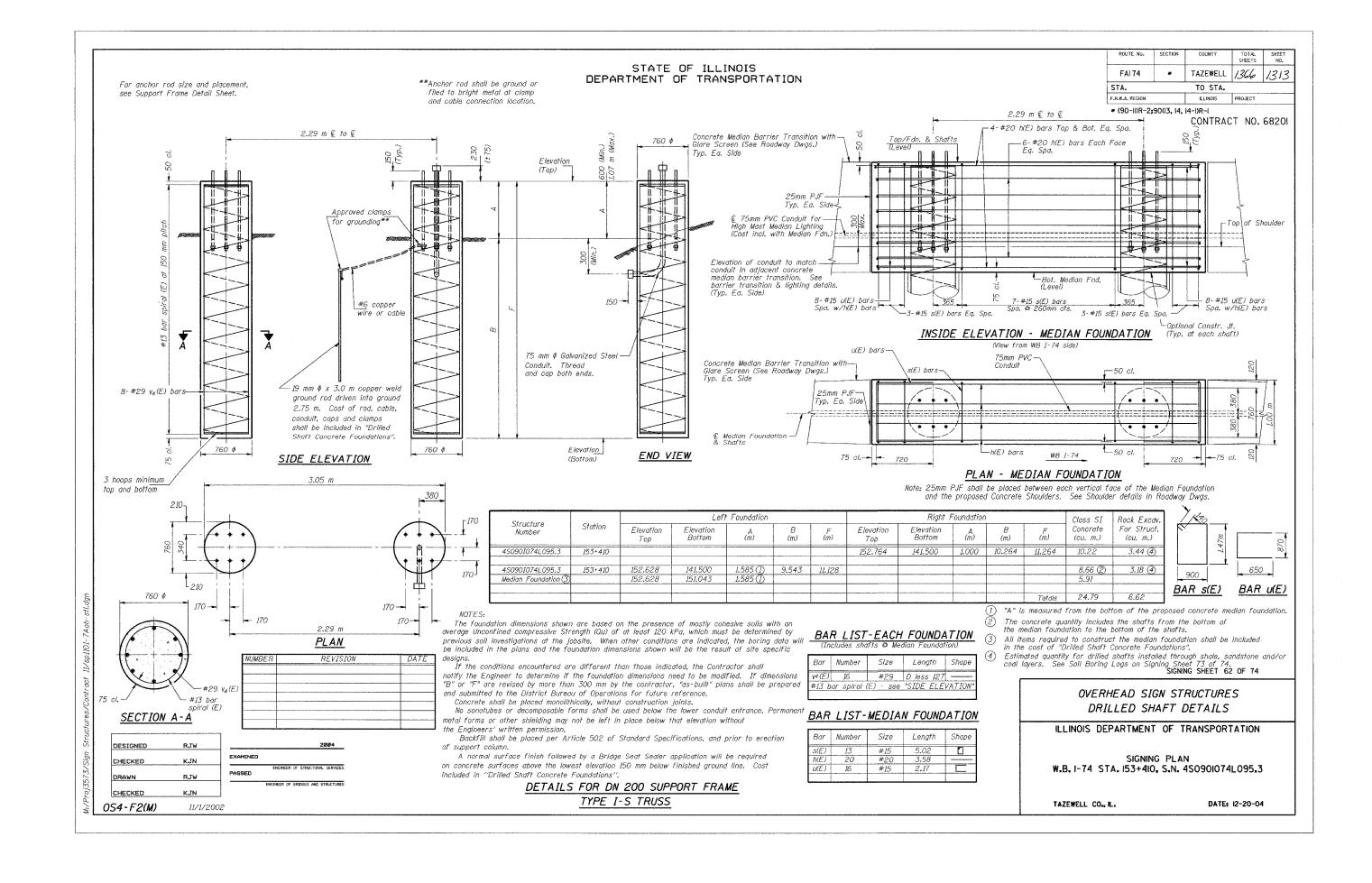




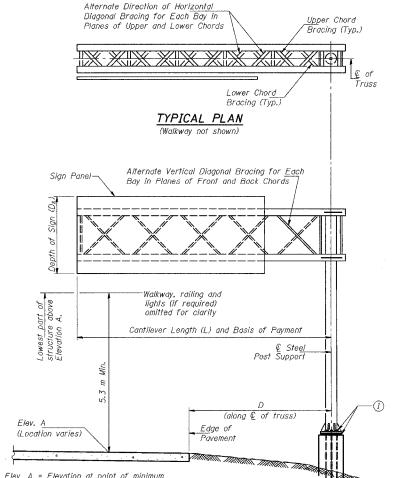








Walkway Grating, Walkway Supports, Handrail and Lighting are not included in this contract.



TYPICAL ELEVATION Looking in Direction of Traffic

Sign support structures may be subject to damaging vibrations and oscillations when sign panels are not in place during erection or maintenance of the structure. To avoid these attach temporary blank sign panels or other bracing to the structure until permanent signs are installed.

clearance to sign, walkway support or truss.

		¬
DESIGNED	RJW	2004
CHECKED	KJN	EXAMINED
DRAWN	RJW	ENGINEER OF STRUCTURAL SERVICES PASSED
CHECKED	₩ TNI	ENGINEER OF BRIDGES AND STRUCTURES

10/1/2001

NUMBER REVISION DATE

STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION

Structure Number	Station	Design Truss Type	Cantilever Length (L)(m)	Elev. A	Dim. D (m)	D _s (m)	Total Sign Ared (sq m)
4C090I074L095.6	153+772	II-C-S	9.025	153.054	4.625	3.810	20.57

	I-C-S II-C-S	31.6 m ² 37.2 m ²		9.2 m 12.2 m	\exists	
						© Upper Chord
, u	1	.44 kPa on			7 - F	
4.6 m (Max.)	l .	mum Sign Area (See Table)		0.5 kPa		
<u>+</u>	Мах	cimum Length (See	e Table	,	9.2 m Max.	
					66	
			TIM		ATRAIN M	Bottom of Base Plate
	DESIG	N WIND LOA	DING	DIAGRA	M	

7.6 m

(1) After adjustments to level truss and insure adequate vertical clearance, all top and leveling nuts shall be tightened against the base plate with a minimum torque of 270 N·m. Stainless steel mesh shall then be placed around the perimeter of the base plate. Secure to base plate with stainless steel banding.

Parameters shown are basis for I.D.O.T. Standards

Installations not within dimensional limits shown

require special analysis for all components.

Note: Trusses shall be shipped Individually with adequate provision to prevent detrimental motion during transport. This may require ropes between horizontals and diagonals or energy dissipating (elastic) ties to the vehicle. The contractor is responsible for maintaining the configuration and protection of the trusses.

TOTAL BILL OF MATERIAL CANTILEVER STEEL TRUSS

ITEM	UNIT	TOTAL
OVERHEAD SIGN STRUCTURE-CANTILEVER, TYPE I-C-S (0.61M x 1.37M)	m	
OVERHEAD SIGN STRUCTURE-CANTILEVER, TYPE II-C-S (0.90M x 1.68M)	m	9.03
OVERHEAD SIGN STRUCTURE-CANTILEVER, TYPE III-C-S (0.90M x 2.14M)	m	
OVERHEAD SIGN WALKWAY-CANTILEVER TYPE S	m	
DRILLED SHAFT CONCRETE FOUNDATIONS	m 3	6.83

(2) See Special Provision "Overhead Sign Structures-Special".

ROUTE No.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
FAI74	*	TAZEWELL	1366	1314
STA.		TO STA.		1
F.H.W.A. REGION		ILLINOIS	PROJECT	

GENERAL NOTES

*(90-11)R-2;90(13,14,14-1)R-1

CONTRACT NO. 68201

DESIGN: AASHTO Standard Specifications for Structural Supports for Highway Signs, Luminaires and Traffic Signals. ("AASHTO Specifications")

MEASUREMENTS: All dimensions are in milimeters (mm) except as noted.

CONSTRUCTION: Current (at time of letting) Illinois Department of Transportation Standard Specifications for Road and Bridge Construction, Supplemental Specifications and Special Provisions. ("Standard Specifications")

LOADING: 145 km/h WIND VELOCITY

WIND LOADING: 1.44 kPa normal to Sign Panel Area and truss elements not behind sign Loadina Diagram.

WALKWAY LOADING: Dead load plus 2.2 kN. concentrated live load.

ALLOWABLE UNIT STRESSES: Structural Steel ~ 138 MPa Reinfarcina Steel ~ 138 MPa

SPECIFICATIONS:

Class ST Concrete - 10 MPa

Allowable unit stresses due to wind load in combination with other forces, are increased 1.33.

MINIMUM CLEARANCE: Vertical Roadway Clearance = 5.3 m (All Obstructions)

WELDING: All welds to be continuous unless otherwise shown. All welding to be done according to the current AWS DI.1 Structural Welding Code (Steel) and the Standard Specificiations.

MATERIALS: All Structural Steel Pipe shall be ASTM A53 Grade B with a Minimum yield of 241 MPa., or A500 Grade B or C with a minimum yield of 319 MPa. If A500 pipe is substituted for A53, then the outside diameter shall be as detailed and wall thickness greater than or equal to A53.

All Structural Steel Plates and Shapes shall conform to AASHTO M270 Gr. 250, Gr. 345 or Gr. 345W**. Stainless steel for handhole covers shall be ASTM A240, Type 302 or 304, or another alloy suitable for exterior exposure and acceptable to the Engineer.

The steel pipe and stiffening ribs at the base plate for the column shall have a minimum longitudinal Charpy V-Notch (CVN) energy of 20 J at 5°C. (Zone 2) before galvanizing.

FASTENERS FOR STEEL TRUSSES: All bolts noted as "high strength" (HS) must satisfy the requirements of AASHTO MI64 (ASTM A325M), ASTM A449, or approved alternate, and must have matching look nuts and washers. All bolts, u-bolts, eye bolts, lock nuts and washers not required to be high strength must satisfy the requirements of ASTM A307. All bolts, u-bolts, eye bolts, lock nuts and washers must be hot dip galvanized per AASHTO M232. All lock nuts must have nylon or steel inserts. High strength bolt and stud installation shall conform to Article 505.04(f)(2)d of the IDOT Standard Specifications for Road and Bridge Construction. Rotational Capacity ("ROCAP") testing of bolts will not be required.

GALVANIZING: All Steel Grating, Plates, Shapes and Pipe shall be Hot Dip Galvanized after fabrication according to AASHTO MIII.

PAINTING: All steel members shall be painted according to the Special Provision "Surface Preparation and Painting of Galvanized Steel Traffic Structures". Cost Included in "Overhead Sign Structure . . . ".

ANCHOR RODS: Shall conform to AASHTO M314 Gr. 380 (55) with a minimum Charpy V-Notch (CVN) energy of 20 J at -12° C.

CONCRETE SURFACES: All concrete surfaces above an elevation 150 mm below the lowest final ground line at each foundation shall be cleaned and coated with Bridge Seat Sealer according to the Standard Specifications.

REINFORCEMENT BARS: Reinforcement Bars designated (E) shall be epoxy coated according to the Standard Specifications.

**If M270 Gr. 345W steel is proposed, chemistry for plate to be used shall first be approved by the Engineer as suitable for galvanizing and weiding.

SIGNING SHEET 63 OF 74

CANTILEVER SIGN STRUCTURES GENERAL PLAN & ELEVATION STEEL TRUSS & STEEL POST

ILLINOIS DEPARTMENT OF TRANSPORTATION

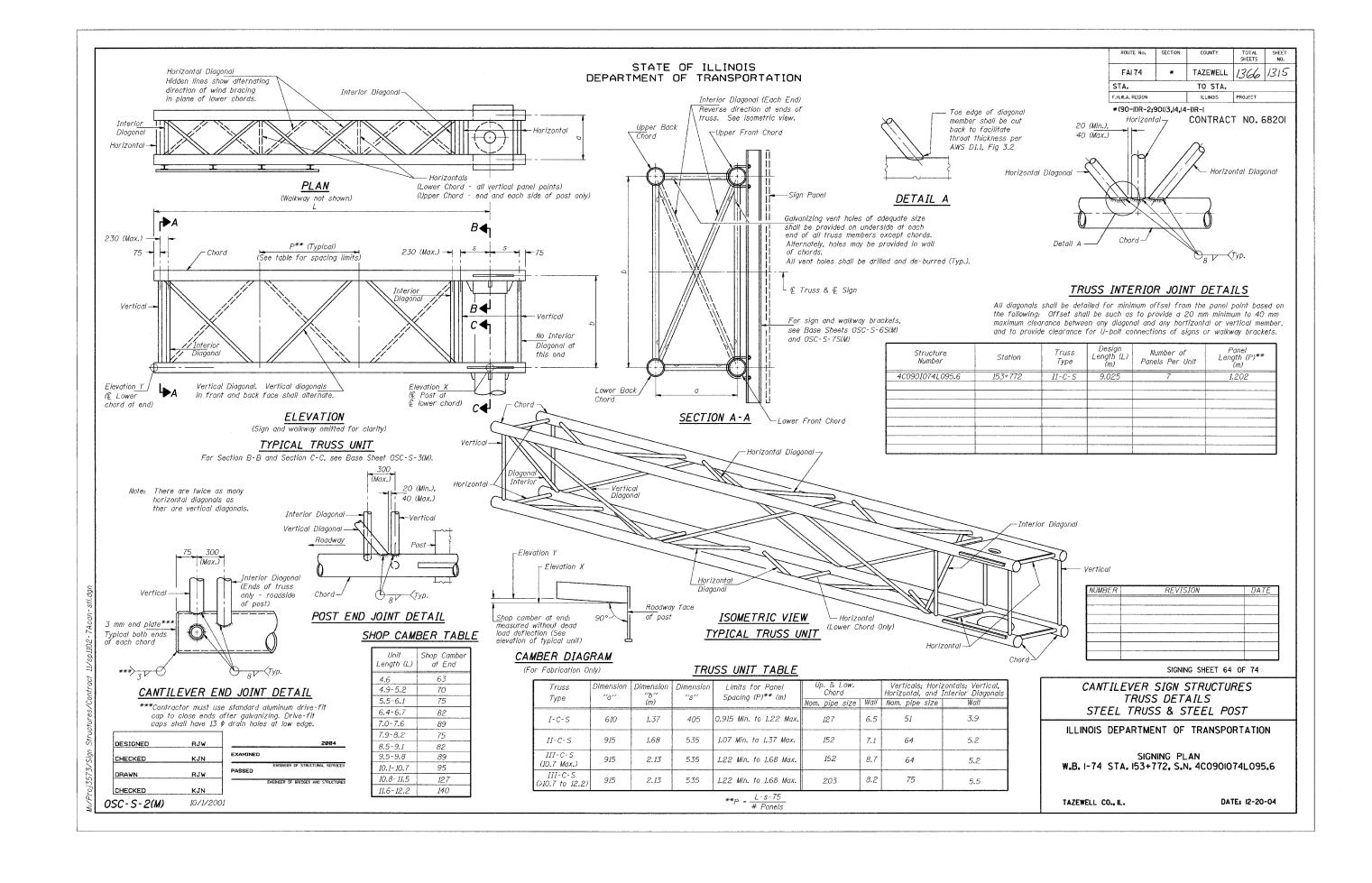
SIGNING PLAN
W.B. 1-74 STA. 153+772, S.N. 4C0901074L095.6

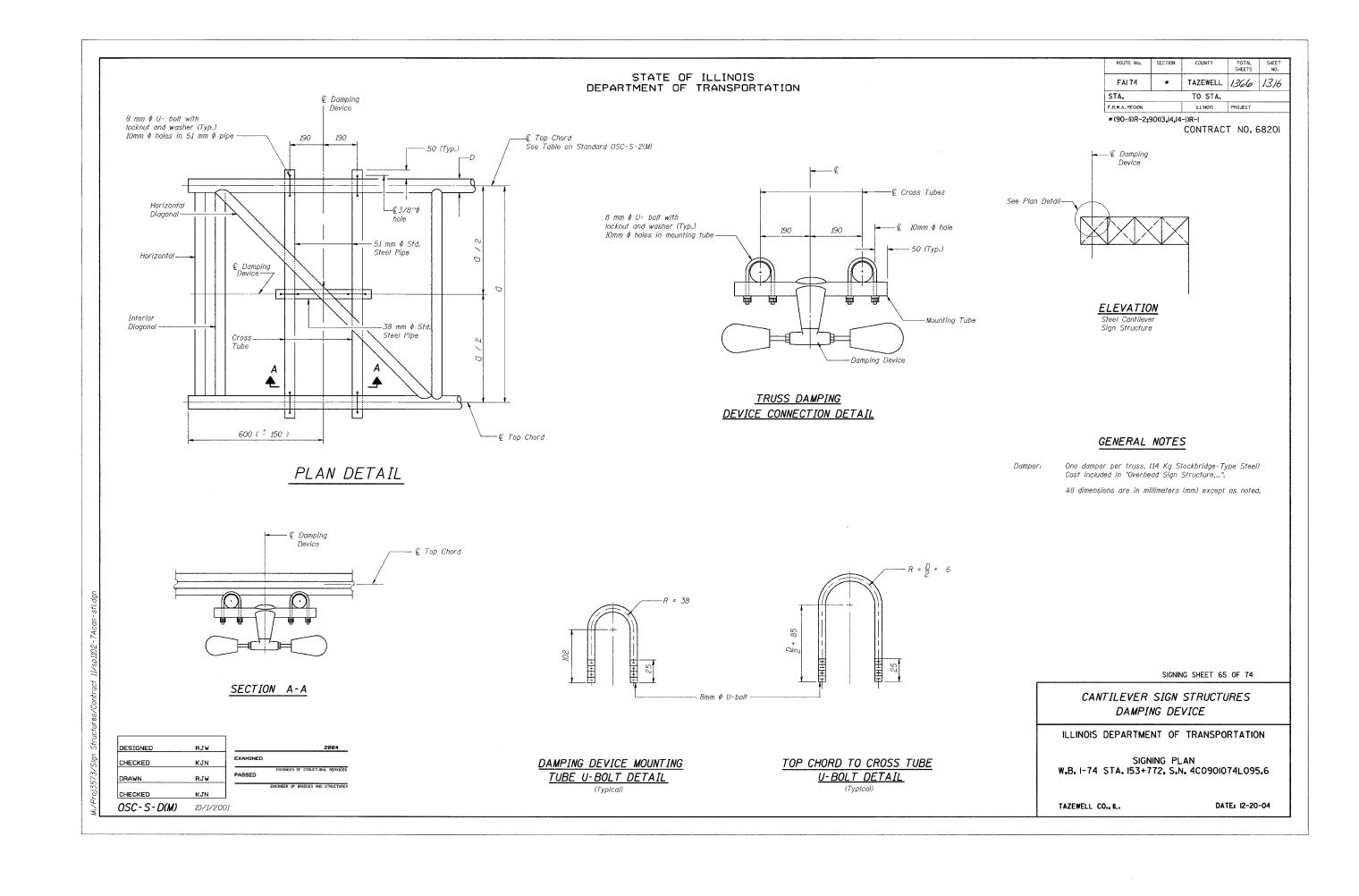
TAZEWELL CO., IL.

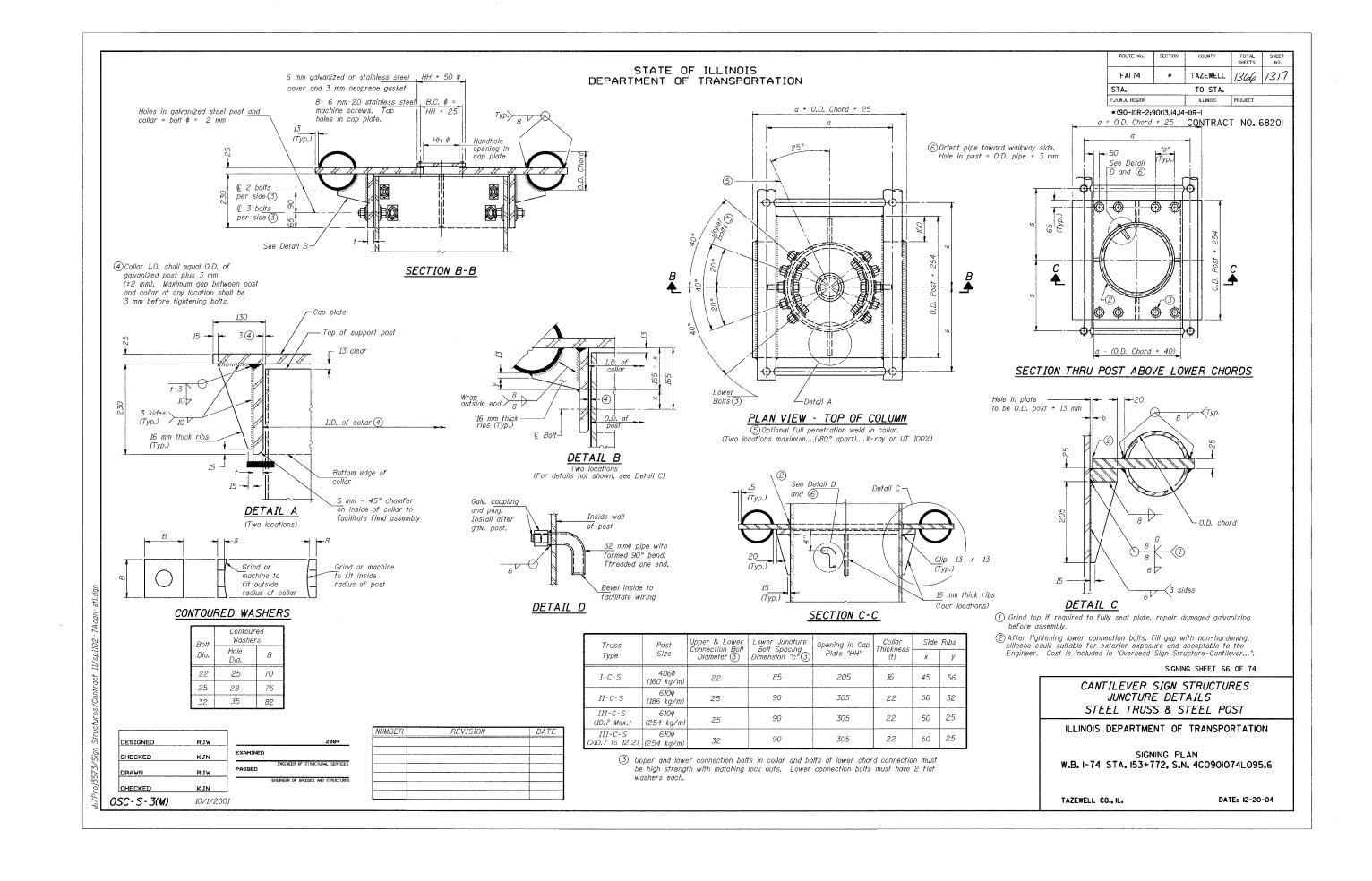
DATE: 12-20-04

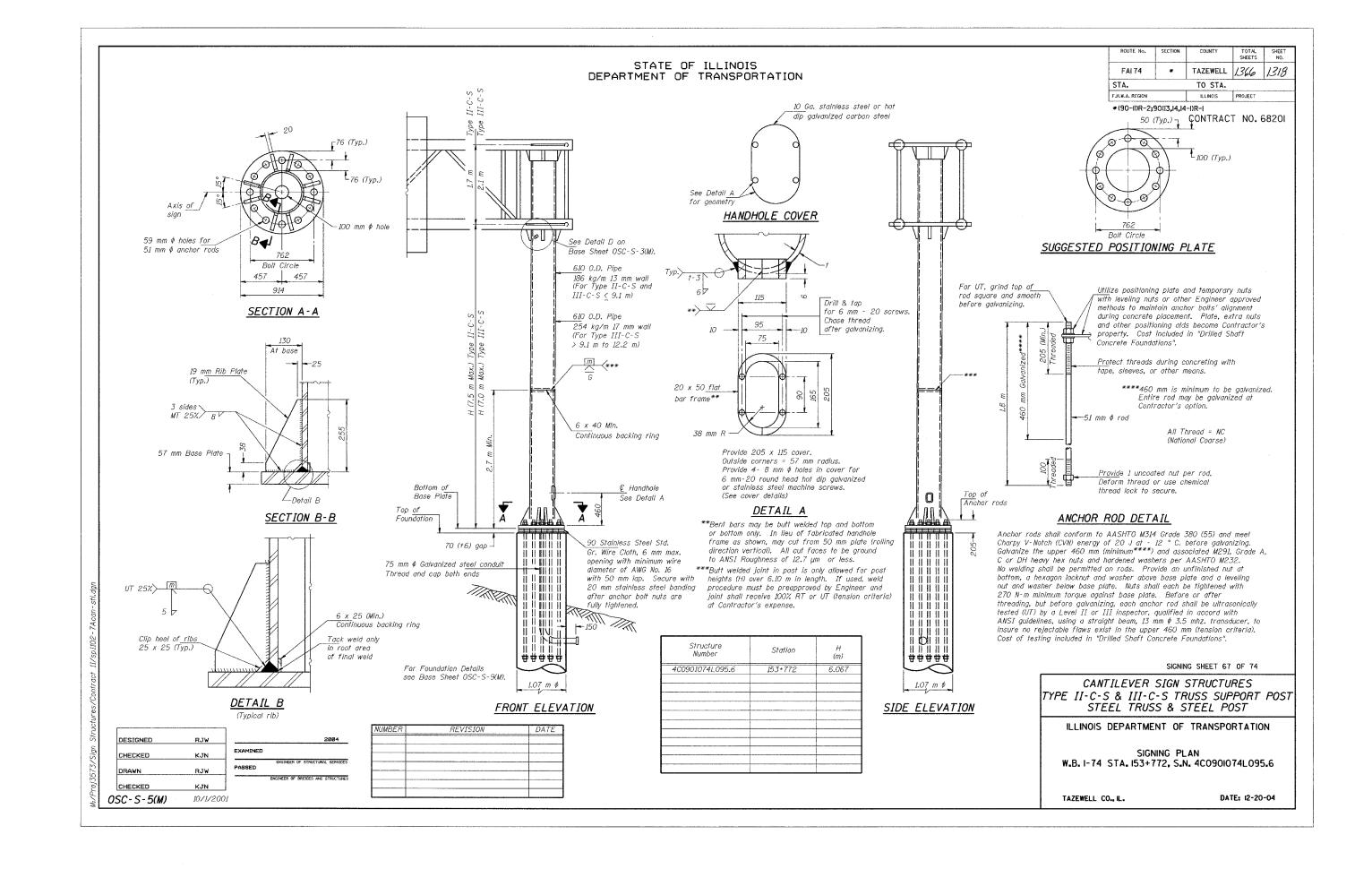
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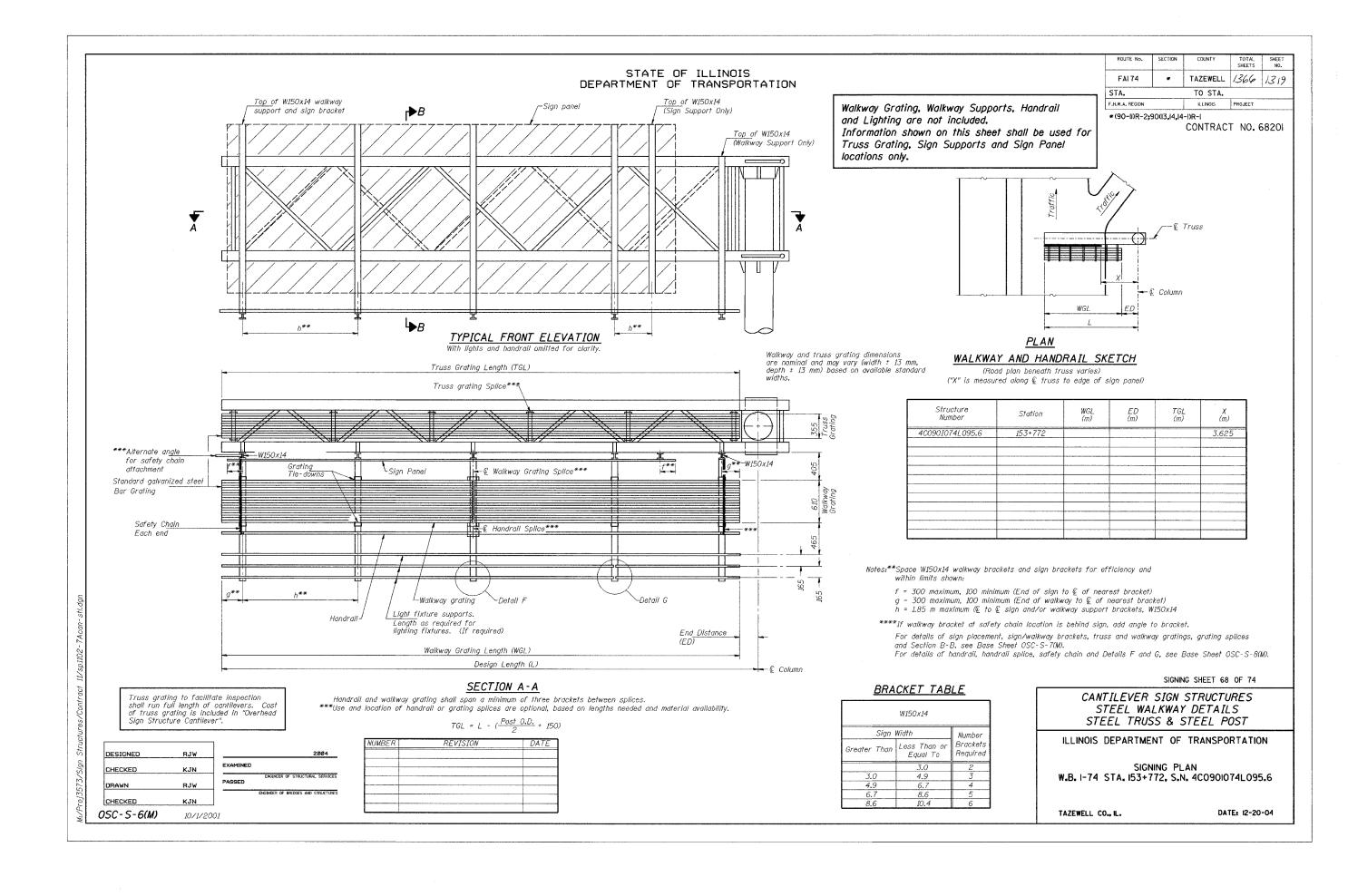
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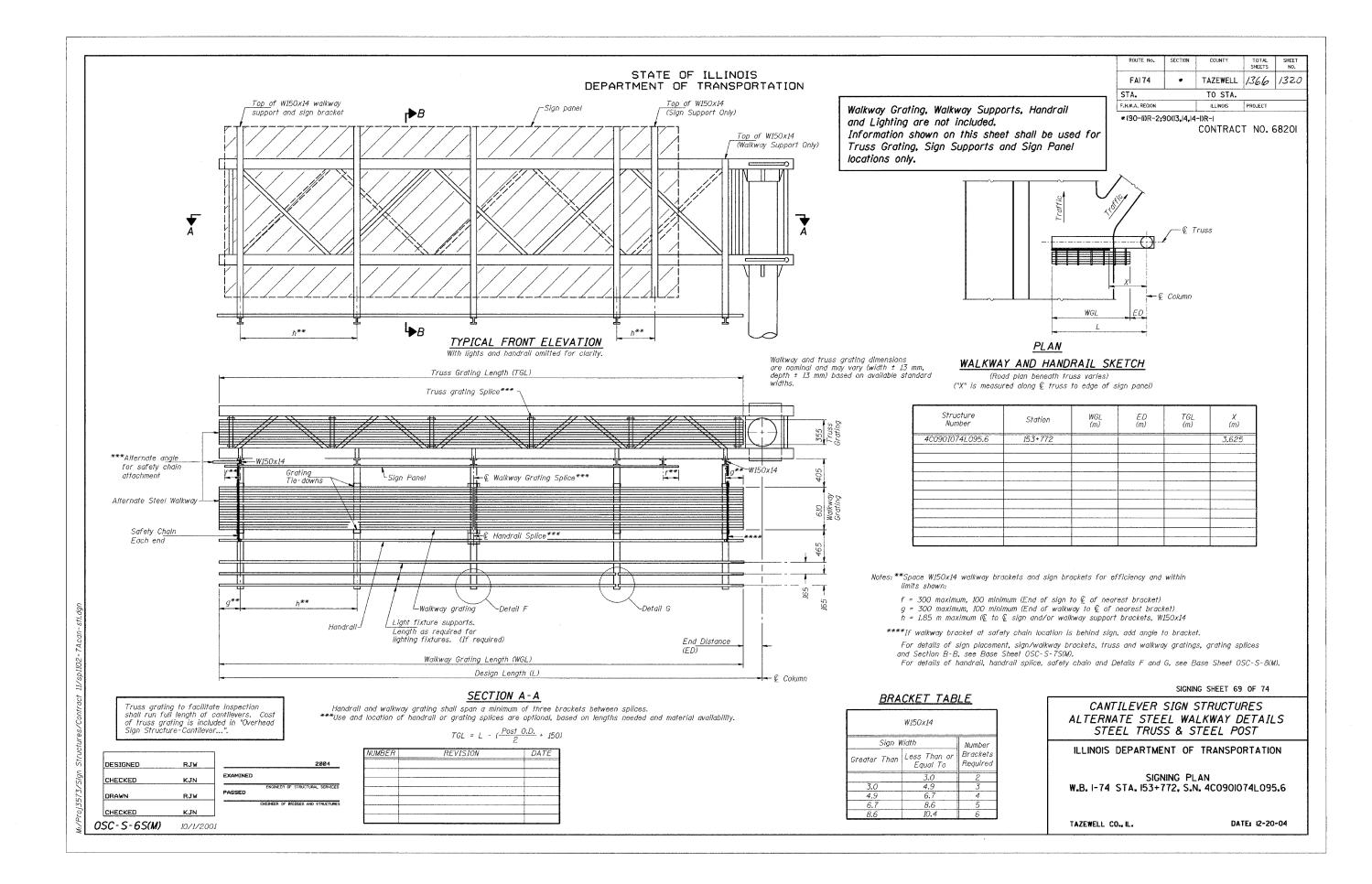


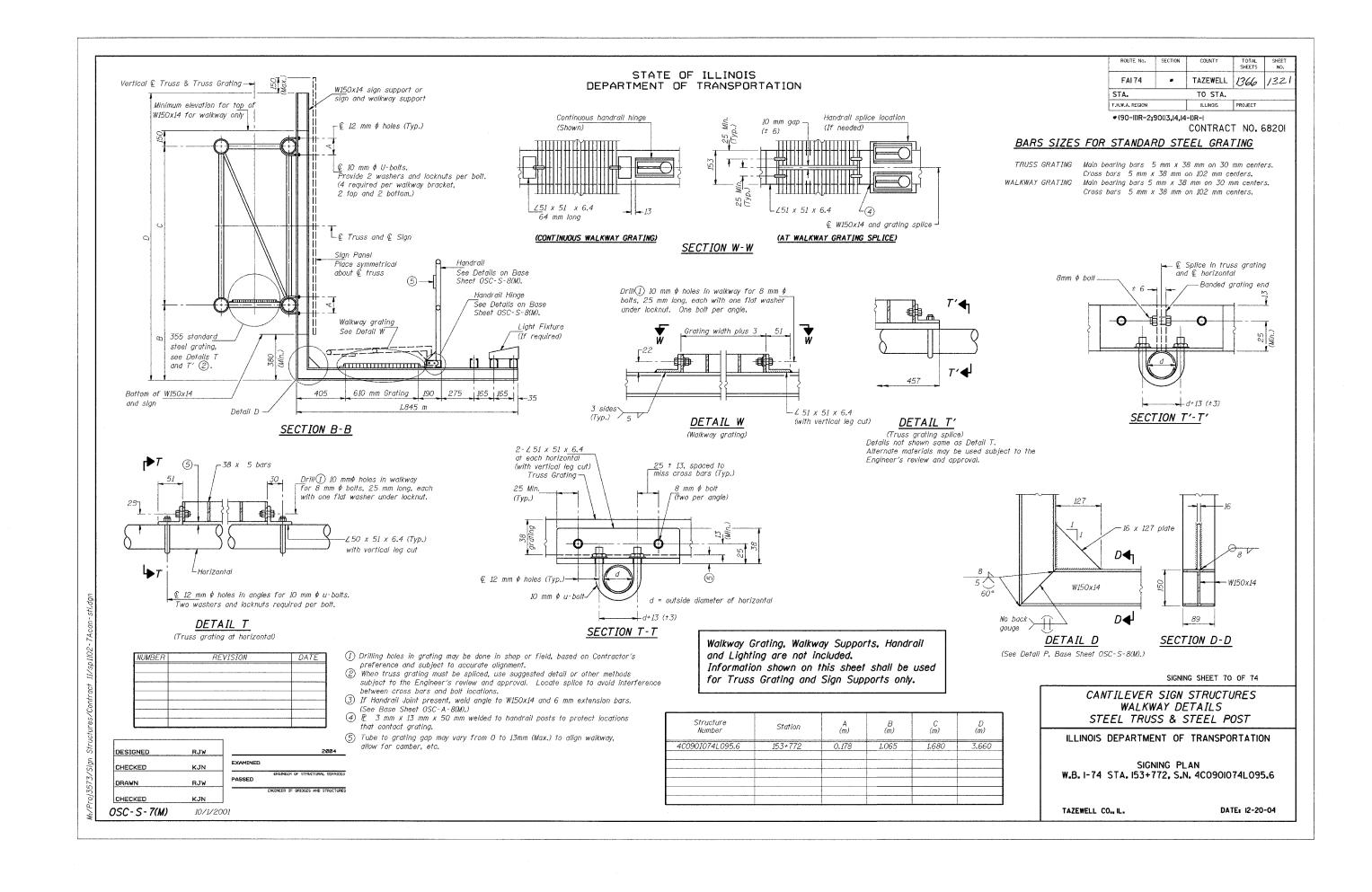


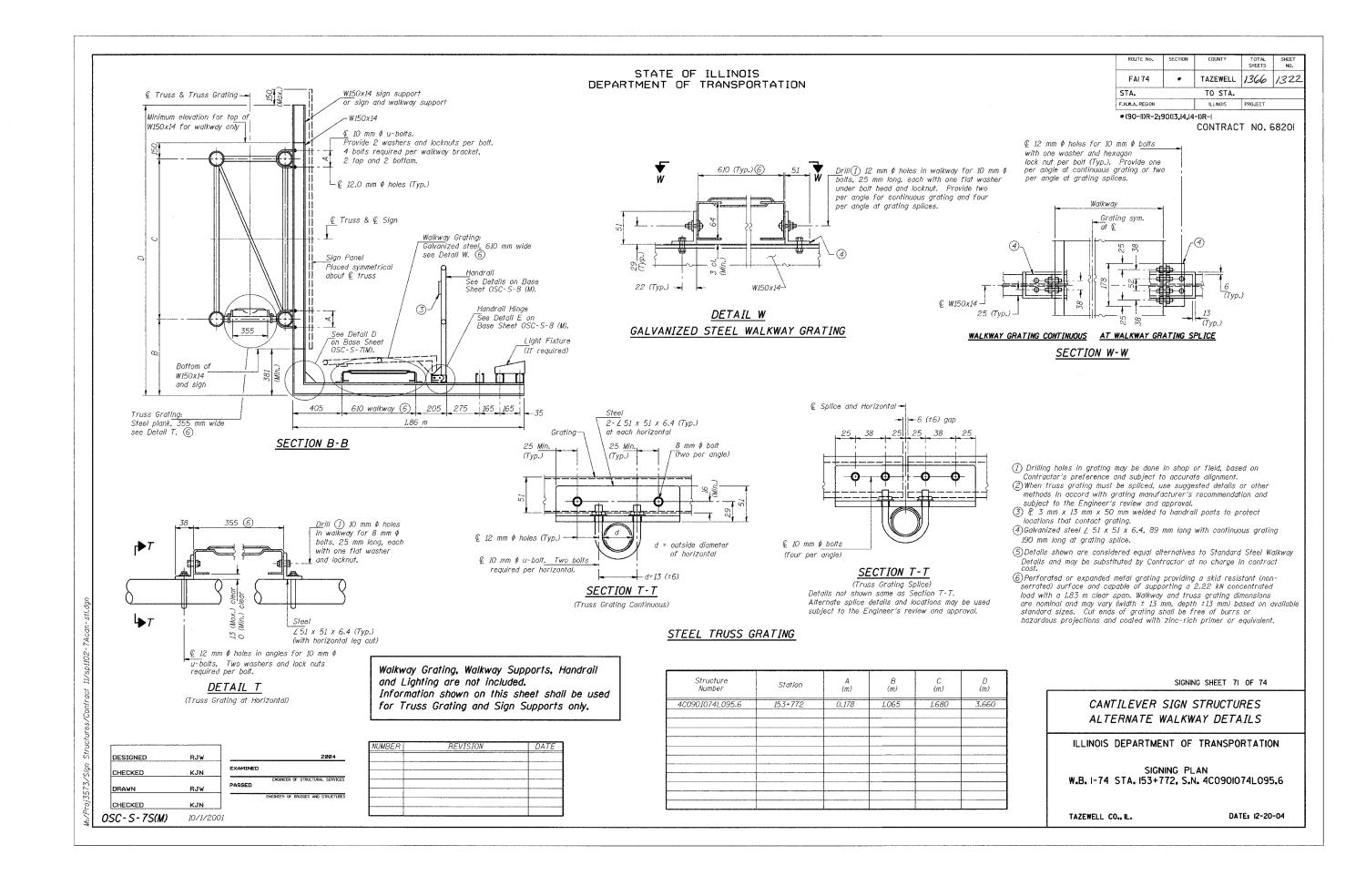


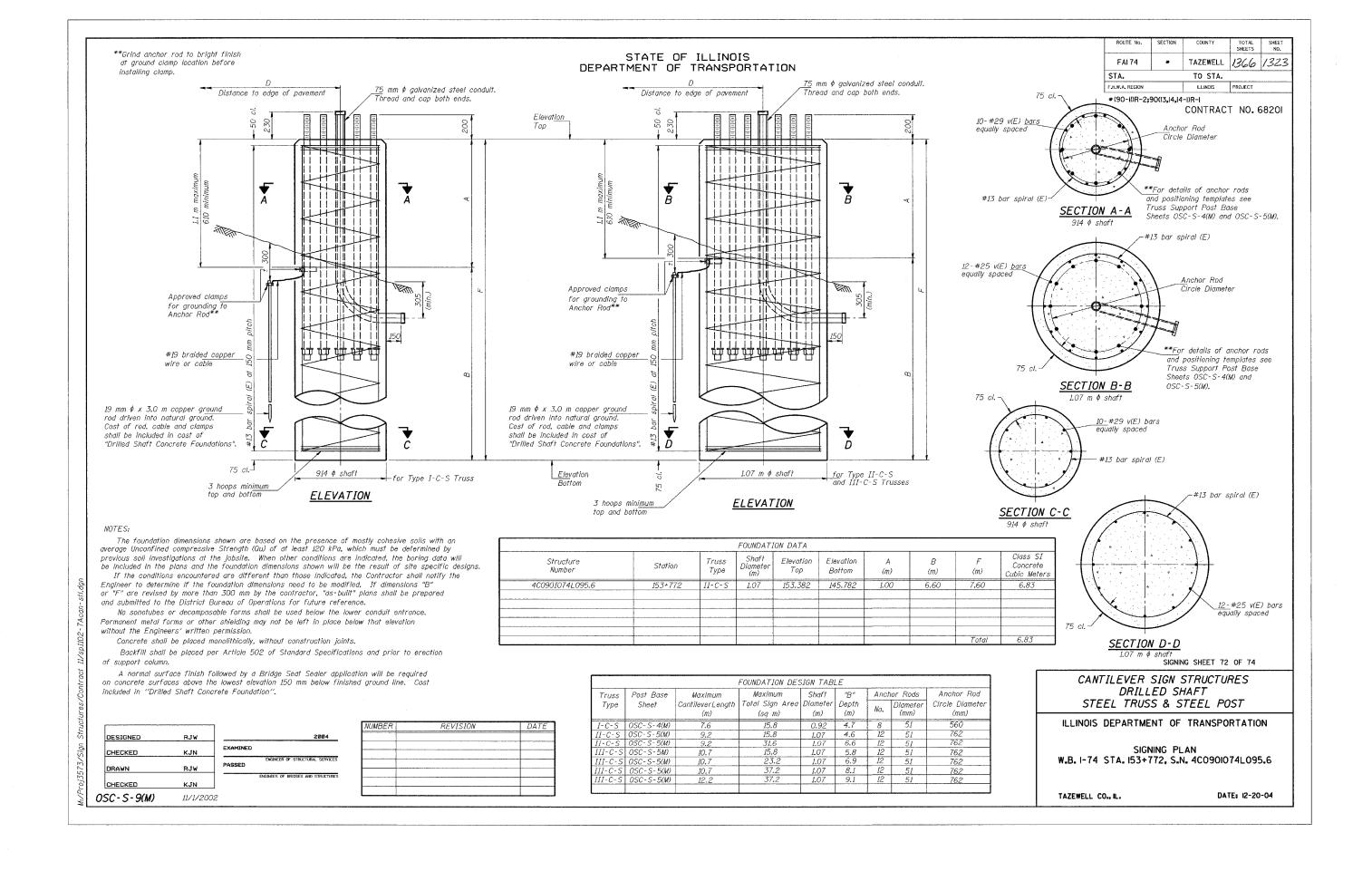












LEGEND - CLAUDE H. HURLEY COMPANY TEST BORING LOGS

A-1 to A-8

Shale

N,BpO.15m

STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION GROUNDWATER DATA Unconfined compression strength of soil in kilopascals DRILLING METHOD

NOTES

TOTAL SHEETS SHEET NO. FAI74 TAZEWELL 1366 1324 STA. TO STA. F.H.W.A. REGION ILLINOIS PROJECT

* (90-II)R-2:90(I3.I4.I4-I)R-

CONTRACT NO. 6820

AASHTO M 145 standard specification. (and subgroups) Textural classification of soil in accordance with IDOT Silty Clay Loam Triangular Chart. Laminated Coal

Engineering classifications of soil in accordance with

Textural and engineering classification of bedrock in accordance with conventional practice.

N-value or standard penetration test value. Number of

blows required to drive a standard split-spoon sampler

Natural moisture content of soil and bedrock in percent determined in accordance with AASHTO T 265 standard specification and AASHTO T 265/ASTM D 2216 for

specification.

determined in accordance with AASHTO T 208 standard

Dry unit weight of soil and bedrock in kilograms per cubic meter determined in accordance with standard practice.

FA Flight Auger Water Level Durina Drilling Rotary Wash Water Level Before HSA Hollow Stem Auger Auger Removal AAR Water Level After SAMPLE TYPE Auger Removal

Dry Cave Level Auger Wet Cave Level Days DB Core Barrel Hours

Standard Split-barrel Thin-walled Tube

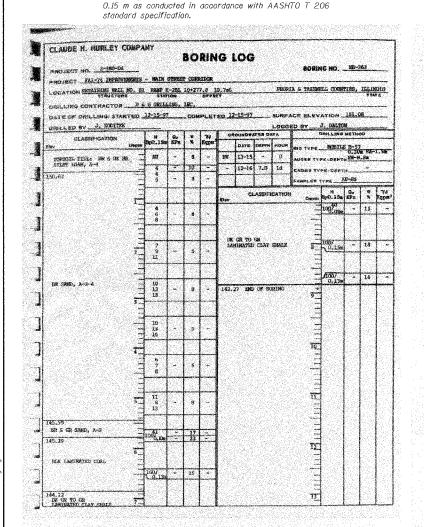
2. The Geotechnical Data presented in this Legend and on the Boring Logs are to be interpreted by personnel educated, trained, experienced and licensed to practice Geotechnical Engineering, and in direct communication with the Claude H. Hurley Company.

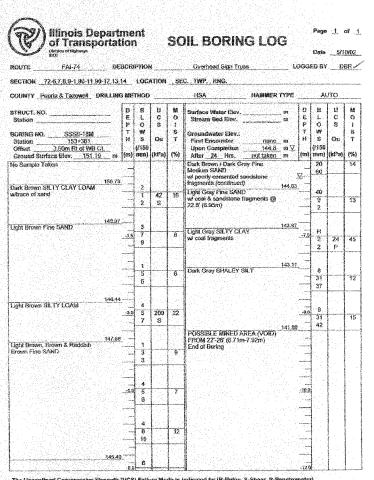
1. The abbreviations, symbols and definitions in this

Legend are commonly used and understood in the

presented only for information and communication.

engineering and construction practices and are





BBS, from 137 (Rev. 8-99)

SECTION 72.57.8,9-1.90-11,90-12,13,14 LOCATION SEC, TMP, RNG.	SECTION 72.57.8,9-1.90.11,90-12.13.14 LOCATION SEC, TMP RNG.	ROUTE FAI-74 DE	SCRI	PTIO	N		Overhead Sign Truss	LOGG	ED BY		H.
STRUCT No.	STRUCT NO.	SECTION 72-5.7.8,9-1,90-11,90-12,13,	14	LOG	ATION	. 59	얼마를 맞아 되었다면 얼마를 되어 먹어지는 것이다.				
Stration	Stration P	COUNTY Peoria & Tazewell DRILLING	ME	тиор			HSA HAMMER TYPE		A	JIO	•••
Continued	Continued	Station	E P T H	L O W S (/150	S Qu	O i s T	Stream Best Elev	E P T	C W S (J168 (J168)	C S Qu (kPa)	Section of the sectio
A 197 12 2 2 2 2 2 2 2 2 2	A 197 12 2 2 5 217 5 B	162.50									and special
Gray CLAY LOAM	Gray CLAY LOAM 19,56 6 6 13 7,9 4 296	LT Brown SILTY CLAY LOAM		4		12			5		Comments in comme
Brown CLAY LOAM	Brown CLAY LOAM	Gray to Dk. Gray SANDY CLAY	1,5	6	66	13		3.5	4		Section Presentation of the section of
Brown CLAY LOAM	Brown CLAY LOAM	Brown/Gray Fine SAND		A						В	Automation of the last
340 7 12 60 4 7 277 7 12 7 12 7 12 12	340 7 12 50 4 7 27 7 27 7 27 7 27 7	witace of Clay				9			8		Chief Con Amendment
Brown CLAY LOAM 2 3 3 3 5 162 7 8 1829 3 5 162 5	Brown CLAY LOAM 2 3 3 3 3 5 162 7 8 6 7 8		-3.0	7		12		-9.0	7		SCHOOL PRINCE SHAPPATER
Gray CLAY LOAM 3	Gray CLAY LOAM	Brown CLAY UDAM 149,46		5	513	12			3		SACRETOR CARRENGE
46 8 197 12 :6.6 3 6 237 6 S 19214 7 18	6	148.69			В						CAN SERVICE SERVICE SERVICES.
	2 - 2 119 14	CHETY VANTALISME	4.6	8		12	142.1		25		September Impanious.

The Unconfined Compressive Strength (UCS) Failure Mode is indicated by (8-Bulge, S-Shear, P-Penetrometer) The SPT (N value) is the sum of the last two blow values in each sampling zone (AASHTO 7206)

BBS, from 137 (Rev. 8-99)

LEGEND - IDOT TEST BORING LOG

with AASHTO T 206 standard specification,

DESIGNED RJW KJN PASSED RJW DRAWN CHECKEL KJN

ENGINEER OF BRIDGES AND STRUCTURES

Silty Clay Loam Textural classification of soil in accordance with IDOT Triangular Chart. BLOWS/150mm Number of blows required to drive a standard soil sampling device 150 mm as conducted in accordance

 Q_u , kPa

Moist. %

Unconfined compression strength of soil in kilopascals determined in accordance with AASHTO T 208 standard

Natural moisture content of soil and bedrock in percent determined in accordance with AASHTO T 265 standard specification and AASHTO T 265/ASTM D 2216 for bedrock.

SIGNING SHEET 73 OF 74

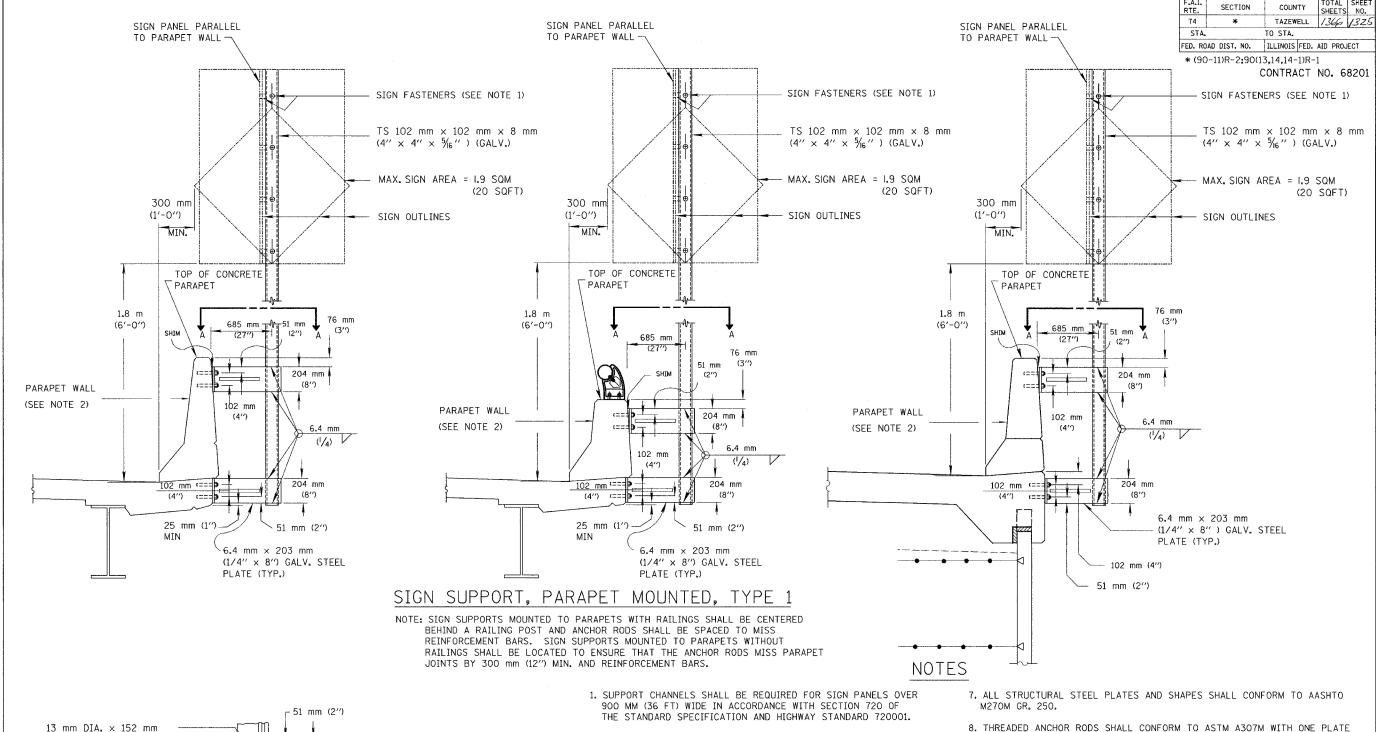
SIGN STRUCTURES SOIL BORING LOGS

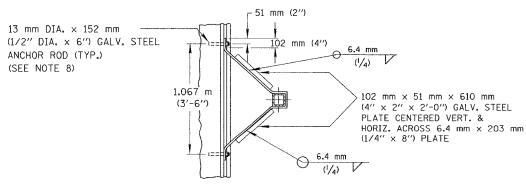
ILLINOIS DEPARTMENT OF TRANSPORTATION

SIGNING PLAN W.B. I-74 STA. I53+4IO, S.N. 4S090I074L095.3 W.B. 1-74 STA. 153+772. S.N. 4C090I074L095.6

TAZEWELL CO., IL.

DATE: 12-20-04





SECTION A-A

- 2. PARAPET AND RAIL SHAPE MAY VARY.
- 3. 3 MM FABRIC BEARING PAD TO BE PLACED BETWEEN THE GALV. STEEL PLATE AND THE PARAPET.
- 4. SHIM AS REQUIRED TO PLUMB TO ACCOUNT FOR THE SLOPE ON THE BACK OF PARAPET.
- 5. THE CONTRACTOR SHALL FIELD MEASURE THE PARAPET BEFORE FABRICATING SIGN SUPPORT AT EACH LOCATION.
- 6. ALL WELDS TO BE CONTINUOUS UNLESS OTHERWISE SHOWN. ALL WELDING TO BE DONE IN ACCORDANCE WITH CURRENT AWS D1.1 AND D1.2 STRUCTURAL WELDING CODES (STEEL) AND THE STANDARD SPECIFICATIONS.
- 8. THREADED ANCHOR RODS SHALL CONFORM TO ASTM A307M WITH ONE PLATE WASHER AND LOCKNUT AND BE HOT DIP GALVANIZED PER AASHTO M232. THEY SHALL BE EITHER CAST INTO THE CONCRETE OR EPOXY GROUTED IN ACCORDANCE WITH SECTION 584 OF THE STANDARD SPECIFICATIONS.
- 9. ALL STEEL PLATES AND SHAPES SHALL BE HOT DIP GALVANIZED AFTER FABRICATION IN ACCORDANCE WITH AASHTO M111. PAINTING IS NOT PERMITTED.
- 10. SIGN FACING DIRECTION SHALL BE AS SHOWN ON SIGNING PLANS.

SIGNING SHEET 74 OF 74

REVISIONS		TI / TI OTO DED LOTI	
NAME	DATE	ILLINOIS DEPARTM	ENT OF TRANSPORTATION
SIGN FACING DIR	9/12/03	I-74 PROJECT	STANDARD 733002-174
			, PARAPET MOUNTED, TYPE 1
			DRAWN BY
		DATE 1/31/03	CHECKED BY

oj3573/Sign Structures/Contract 11/sp1104-7Aparmtd.c

SHEET NUMBER	TITLE
1-2 3 4 5	INDEX OF SHEETS, COMMITMENTS, GENERAL NOTES, AND UTILITY/AGENCY BILL OF MATERIALS LEGEND SYSTEM COMPONENT LOCATION MAP
6-9	MICROWAVE DETECTOR SUBSYSTEM
6 7 8 9	MDS-174-01B (STA 152+725) MICROWAVE DETECTOR STATION SITE LAYOUT MICROWAVE DETECTOR MOUNTING DETAILS MICROWAVE DETECTOR STATION INSTALLATION DETAILS NONINTRUSIVE DETECTOR POLE FOUNDATION DETAIL
10	HIGHWAY-RAIL INFORMATION WARNING SIGN SUBSYSTEM
10 11	HRI-MN(EP)-03 (MAIN ST. NORTH) HIGHWAY-RAIL INFORMATION SIGN SITE LAYOUT HIGHWAY RAIL INFORMATION SIGN INSTALLATION DETAIL
12-13	MISCELLANEOUS DETAILS
12 13	EQUIPMENT CABINET DETAILS ITS COMPONENT IDENTIFICATION PLAQUE

STANDARD NUMBER	TITLE
701101	OFF-ROAD OPERATIONS, MULTILANE, 4.5 M (15') TO 600 MM (24') FROM PAVEMENT EDGE
701106	OFF-ROAD OPERATIONS, MULTILANE, MORE THAN 4.5 M (15')
701400	APPROACH TO LANE CLOSURE, FREEWAY/EXPRESSWAY
701406	LANE CLOSURE, FREEWAY/EXPRESSWAY, DAY OPERATIONS ONLY
701411	LANE CLOSURE, MULTILANE, AT ENTRANCE OR EXIT RAMP, FOR SPEEDS > OR = 45 MPH
701601	URBAN LANE CLOSURE, MULTILANE, 1W OR 2W, WITH NON TRAVERSABLE MEDIAN
702001	TRAFFIC CONTROL DEVICES
720001	SIGN PANEL MOUNTING DETAILS
720006	SIGN PANEL ERECTION DETAILS
814001	CONCRETE HANDHOLES
880006	TRAFFIC SIGNAL MOUNTING DETAILS
	I.

UTILITY/AGENCY CONTACTS

MR. DAN URBANIAK I-74 COORDINATOR CENTRAL ILLINOIS LIGHT COMPANY 300 LIBERTY STREET PEORIA, IL 61602 (309) 693-4731

MR. CARL ATTEBERRY MCLEOD USA 102 EAST SHAFER STREET FORSYTH, IL 62535 (217) 876-7194

MS. PAM MONK AMERITECH TELEPHONE COMPANY ENGINEERING DEPARTMENT, 2ND FLOOR 2315 NORTH KNOXVILLE AVENUE PEORIA, IL 61604 (309) 686-3324

MR. CARL DONAHUE AT&T COMMUNICATIONS 866 ROCK CREEK ROAD PLANO, IL 60545 (630) 552-4677

MS. JUDITH S. LAKE WILLIAMS COMMUNICATION ONE TECHNOLOGY CENTER P.O. BOX 22064 TC-11A TULSA, OK 74121-2064 (915) 547-9919

MR. ERICK ENRIQUEZ CENTRAL ILLINOIS LIGHT COMPANY GAS 300 LIBERTY STREET PEORIA, IL 61602 (309) 693-4882

MR. KEVIN HILLEN MANAGER ILLINOIS-AMERICAN WATER COMPANY 123 S.W. WASHINGTON PEORIA, IL 61602 (309) 671-3720

MR. THOMAS MEYER DIRECTOR OF ENGINEERING GREATER PEORIA SANITARY DISTRICT 2322 SOUTH DARST STREET PEORIA, IL 61607 (309) 637-3511

MR. DAVE MARSHALL DIRECTOR OF OPERATIONS AND MAINTENANCE CITY OF PEORIA 3505 NORTH DRIES LANE PEORIA, IL 61604 (309) 494-8887

MR. RICK JEREMIAH DIRECTOR OF PUBLIC WORKS CITY OF EAST PEORIA 2232 E. WASHINGTON STREET EAST PEORIA, IL 61611 (309) 698-4716

MR. JAMES BRUCE VONBRETHORST INSIGHT COMMUNICATIONS 3517 NORTH DRIES LANE PEORIA, IL 61604 (309) 686-2677

MR. PAUL WRZESZCZ SPRINT OUTSIDE PLANT ENGINEERING 5600 NORTH RIVER ROAD, SUITE 500 ROSEMONT, IL 60018 (800) 896-3025

MR. DAVID TUTTLE MANAGER CITY OF PEORIA EMERGENCY COMMUNICATIONS CENTER 542 SW ADAMS STREET PEORIA, IL 61612-1552 (309) 494-8035

MR. DENNIS REINHART DEPUTY CHIEF EAST PEORIA PUBLIC SAFETY BUILDING 201 WEST WASHINGTON STREET EAST PEORIA, IL 61611 (309) 698-4614

MR. RANDY LANINGA ITS COORDINATOR ILLINOIS DEPARTMENT OF TRANSPORTATION, DISTRICT 4 401 MAIN STREET PEORIA, IL 61602-1111 (309) 671-4477

MR. MICHAEL HOOVER PROJECT MANAGER MASTEC 3705 SW ADAMS STREET PEORIA, IL 61605 (309) 494-9561

COUNTY TOTAL SHEET SHEETS NO. SECTION RTE. TAZEWELL 1336 1326 74 (90-11)R-2:90 (13,14,14-1)R-1 STA. TO STA. FED. ROAD DIST. NO. | ILLINOIS | FED. AID PROJECT

ITS SHEET 1 OF 13

CHECKED BY GFR

REVISIONS NAME **Edwards AND Kelceu**

ILLINOIS DEPARTMENT OF TRANSPORTATION INDEX OF SHEETS, STANDARDS, SCALE DATE 12/20/04

COMMITMENTS, GENERAL NOTES. AND UTILITY/AGENCY CONTACTS DRAWN BY MJL

ITS PLAN

PROJECT SPECIFIC GENERAL NOTES

THE DEPARTMENT CONTACT PERSON FOR THIS CONTRACT IS RANDY LANINGA, IDOT DISTRICT 4 ITS COORDINATOR, 309-671-4477. THE CONTRACTOR MUST COORDINATE AND COOPERATE WITH THE DEPARTMENT AND THE INVOLVED PARTIES AS DIRECTED BY THE DEPARTMENT.

THE ENGINEERING DESIGN IN THESE PLANS IS BASED UPON FIELD INVESTIGATIONS OF CURRENT CONDITIONS, REVIEW OF EXISTING AS-BUILT DOCUMENTATION, AND INFORMATION OBTAINED FROM PRELIMINARY DESIGN DOCUMENTS FOR THE RECONSTRUCTION PROJECTS. DUE TO THE CHANGING NATURE OF THESE ITEMS, THE ACTUAL CONDITIONS MAY BE DIFFERENT THAN THOSE DEPICTED. THE CONTRACTOR SHALL VERIFY THE EXISTING FIELD CONDITIONS PRIOR TO ANY CONSTRUCTION ACTIVITIES AND CORRELATE THESE CONDITIONS WITH THE PROPOSED CONSTRUCTION ACTIVITIES OF THIS AND OTHER CONTRACTS. THE CONTRACTOR SHALL IDENTIFY TO THE ENGINEER ANY SIGNIFICANT DIFFERENCES BETWEEN THESE PLANS AND THE EXISTING FIELD CONDITIONS OR PROPOSED CONSTRUCTION THAT COULD IMPACT HIS EFFORTS PRIOR TO BEGINNING WORK. CORRECTIVE ACTIONS FOR PROBLEMS ENCOUNTERED AFTER THE CONTRACTOR HAS BEGUN WORK WILL BE INCLUDED IN THE TASK UNLESS PREVIOUSLY IDENTIFIED TO THE ENGINEER.

THE CONTRACTOR SHALL BE REQUIRED TO PAY ANY UTILITY FEES FOR ELECTRICAL SERVICE INCLUDING SET-UP DELIVERY COSTS NECESSARY TO EXTEND THE UTILITY POWER TO THE ITS EQUIPMENT LOCATIONS IN ACCORDANCE WITH ARTICLE 109.05 OF THE STANDARD SPECIFICATIONS.

ALL ELECTRICAL WORK SHALL CONFORM TO THE NATIONAL ELECTRIC CODE (NEC).

THE CONTRACTOR SHALL BE AWARE THAT TEST SOIL BORINGS WERE NOT MADE AT ALL LOCATIONS WHERE INTELLIGENT TRANSPORTATION SYSTEM (ITS) ELEMENTS OR RELATED EQUIPMENT ARE TO BE INSTALLED. THE CONTRACTOR SHALL BE RESPONSIBLE FOR EXAMINING THE SITE CONDITIONS AT THESE FIELD LOCATIONS BEFORE SUBMITTING BID PROPOSALS.

ALL PROPOSED ITS WORK SHALL BE REVIEWED AND APPROVED BY THE DEPARTMENT IN CONSULTATION WITH THE DESIGN ENGINEER AND THE EQUIPMENT INTEGRATOR. THE CONTRACTOR SHALL SUBMIT SHOP DRAWINGS, CONSTRUCTION METHODOLOGIES, AND PRODUCT MANUFACTURER SPECIFICATIONS BEFORE PROCURING AND INSTALLING ANY ITS EQUIPMENT AS PART OF THIS CONTRACT. THE CONTRACTOR SHALL SUBMIT OWNERS' MANUALS AND USERS' MANUALS WITH DELIVERY OF ANY ITS EQUIPMENT AS PART OF THIS CONTRACT.

WHENEVER CONDUITS (INCLUDING SPARES) ARE INSTALLED FOR FIBER OPTIC OR ELECTRICAL POWER CABLE, A NYLON PULL ROPE WITH DETECTABLE METALLIC CONDUCTOR SHALL BE INSTALLED WITH THE CONDUIT. ALL PULL ROPE-RELATED COSTS ARE TO BE INCLUDED IN THE BID PRICE FOR CONDUIT.

EXACT FIELD LOCATIONS OF ITS EQUIPMENT SHALL BE AS DIRECTED BY THE ENGINEER. THE CONTRACTOR SHALL TAKE CARE NOT TO INSTALL ITS EQUIPMENT IN DRAINAGE AREAS.

STRUCTURAL SHOP DRAWINGS SHALL BE SUBMITTED FOR REVIEW TO THE FOLLOWING DESIGN CONSULTANT:

EDWARDS AND KELCEY ATTN: MATT LETOURNEAU ONE NORTH FRANKLIN SUITE 500 CHICAGO, IL 60606

A CONCURRENT COPY OF THE SHOP DRAWINGS (STAMPED FOR INFORMATION ONLY AND NOT FOR CONSTRUCTION) SUBMITTAL SHALL BE SENT FOR INFORMATIONAL PURPOSES TO IDOT'S PROJECT IMPLEMENTATION ENGINEER AT:

401 NORTH MAIN STREET PEORIA, IL 61602

PROJECT SPECIFIC GENERAL NOTES

THE DEPARTMENT HAS SELECTED MASTEC AS THE EQUIPMENT INTEGRATOR UNDER A SEPARATE CONTRACT FOR THE ITS WORK INVOLVED IN THE I-74 RECONSTRUCTION PROJECT. THE CONTRACTOR SHALL COOPERATE WITH AND SUPPORT THE EQUIPMENT INTEGRATOR WHO SHALL BE RESPONSIBLE FOR RELOCATING AND REPROGRAMMING (WHERE APPLICABLE) THE TEMPORARY CRASH INVESTIGATION SITE SIGNS AND MOTORIST CALL BOXES, CCTV SURVEILLANCE CAMERAS, PORTABLE TRAFFIC MANAGEMENT SYSTEMS, NONINTRUSIVE DETECTOR STATIONS, AND ALL OF THEIR ASSOCIATED COMMUNICATIONS EQUIPMENT INSTALLATIONS WHENEVER A NEW TRAFFIC PATTERN IS INSTITUTED OR NEW CONSTRUCTION STAGE IS ADVANCED. IN ORDER TO BE ABLE TO USE THEM AS PART OF THE ITS SYSTEM THROUGHOUT THE DURATION OF THE CONTRACT.

NO WORK SHALL BE CONDUCTED BY THE CONTRACTOR ON ANY EXISTING STREET LIGHTING AND TRAFFIC SIGNAL CONDUIT, POLES, OR CONTROLLER CABINETS UNDER JURSIDICTION OF THE DEPARTMENT OR THE CITIES OF PEORIA AND EAST PEORIA WITHOUT FIRST NOTIFYING THE DEPARTMENT 72 HOURS BEFORE COMMENCING WORK. ALL STREET LIGHTING/TRAFFIC SIGNAL COORDINATION-RELATED WORK SHALL BE COORDINATED BY THE CONTRACTOR WITH THE DEPARTMENT. THE CONTRACTOR SHALL TAKE PRECAUTIONS TO ENSURE THAT POWER AND COMMUNICATION CABLES WITHIN EXISTING STREET LIGHTING AND TRAFFIC SIGNAL CONDUITS, POLES, AND CONTROLLER CABINETS ARE NOT DAMAGED AS A RESULT OF DRILLING OR INSTALLING THE ITS SUBSYSTEMS IN ACCORDANCE WITH ALL REQUIREMENTS OF THE AFFECTED AGENCY AS WELL AS THE NEC.

THE CONTRACTOR SHALL BE RESPONSIBLE FOR COORDINATING TRAFFIC CONTROL FOR THE INSTALLATION OF ITS RELATED EQUIPMENT WITH OTHER CONTRACTS AND WORK IN THE AREA.

THE CONTRACTOR SHALL BE REQUIRED TO MAINTAIN VEHICULAR AND TRAFFIC PATTERNS AS REQUIRED BY THE CONTRACT PLANS. THE CONTRACTOR WILL BE RESPONSIBLE FOR ABIDING BY THE MUTCD AND ALL RULES AND REGULATIONS OF THE DEPARTMENT. THE CONTRACT MOT PLANS FOR CONSTRUCTION OF THE ITEMS IN THIS CONTRACT ARE INCLUDED FOR GENERAL ILLUSTRATION PURPOSES ONLY. THE CONTRACTOR WILL BE REQUIRED TO INSTALL ADDITIONAL SIGNS AND APPURTENANCES TO MAINTAIN SAFE CONDITIONS IN THE WORK ZONE AT ALL TIMES AT NO ADDITIONAL COST TO THE DEPARTMENT.

ANY GROUND AREAS DISTURBED DURING THE INSTALLATION OF ITS FIELD DEVICES SHALL BE REGRADED AND SEEDED TO THE SATISFACTION OF THE ENGINEER. COST FOR THIS WORK IS TO BE INCLUDED IN THE COST OF THE ASSOCIATED ITS EQUIPMENT ITEMS.

F.A.I. RTE.	SECTION	COUNTY	TOTAL	SHEET NO.
74	(90-11)R-2:90 (13,14,14-1)R-1	TAZEWELL	1366	1327
STA.		TO STA.		
FED. RO	AD DIST. NO.	ILLINOIS FED.	AID PROJ	ECT

ITS SHEET 2 OF 13

	REVISIONS		TILINOIS DEPARTMEN	T OF TRANSPORTATION
	NAME	DATE		PLAN
			T. ID	
				ETS, STANDARDS,
			COMMITMENTS,	GENERAL NOTES,
Edwards -			AND UTILITY/A	GENCY CONTACTS
P Kelcey			SCALE	DRAWN BY MJL
-MEILEY			DATE 12/20/04	CHECKED BY GFR

F.A.I. RTE.	SECTION	COUNTY	TOTAL	SHEET NO.
74	(90-11)R-2;90 (13,14,14-1)R-1	TAZEWELL	1366	1328
STA.		TO STA.		
FED. RO	AD DIST. NO.	ILLINOIS FED.	AID PROJ	ECT
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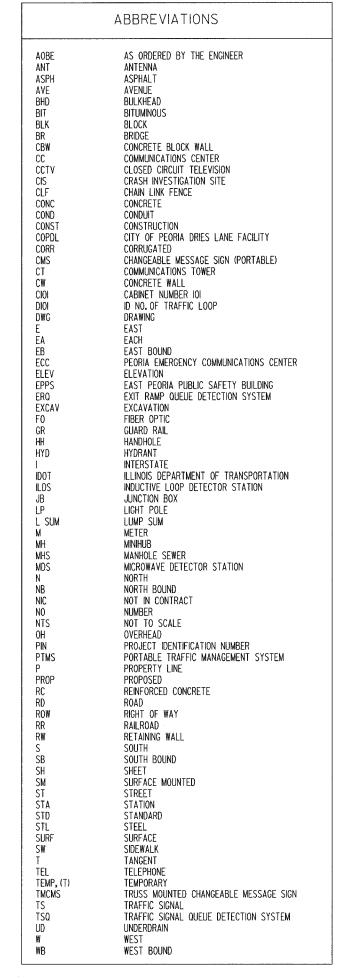
ITS BILL OF MATERIALS

		TOTAL	SCHEDULE OF QUANTITIES		
DESCRIPTION	UNIT	TOTAL	MDS-I74-01B	HRI-MN(EP)-03	
SERVICE INSTALLATION, TYPE B	EACH	1		1	
HEAVY-DUTY HANDHOLE	EACH	1	1		
CONCRETE HANDHOLE	EACH	1		1	
CONDUIT IN TRENCH, 50MM DIA., PVC	METER	21.0	13.0	8.0	
CONDUIT PUSHED, 50MM DIA., PVC	METER	208.0	153.0	55.0	
TRENCH AND BACKFILL FOR ELECTRICAL WORK	METER	14.5	6 . 5	8.0	
ELECTRIC CABLE IN CONDUIT, SERVICE, NO. 6 2C	METER	177.0	105.0	72.0	
CONCRETE FOUNDATION, TYPE E 600MM DIAMETER	METER	2.5	2.5		
NONINTRUSIVE DETECTOR POLE 9.1 METER	EACH	1.0	1		
ELECTRIC CABLE IN CONDUIT, GROUNDING, NO. 6 1C	METER	177.0	105.0	72.0	
POLE MOUNTED EQUIPMENT CABINET, TYPE B	EACH	1	1		
POLE MOUNTED EQUIPMENT CABINET, TYPE C	EACH	1		1	
HIGHWAY-RAIL INFORMATION SIGN	EACH	1		1	

FOR INFORMATION ONLY

ITS SHEET 3 OF 13

ILLINOIS DEPARTMENT OF TRANSPORTATION ITS PLAN BILL OF MATERIALS Edwards ^{AND}Kelcey DRAWN BY MJL SCALE DATE 12/20/04 CHECKED BY CJH



LEGI	END	
FEATURE	SYMBOL-PROPOSED	SYMBOL-EXISTING
CHANGEABLE MESSAGE SIGN (PORTABLE)	SIGNS	ECMS
STATIC SIGN WITH BEACON FLASHERS	•HRI•	●HRI•
STATIC SIGN WITHOUT BEACON FLASHERS	HRI	HRI
TRUSS MOUNTED CHANGEABLE MESSAGE SIGN	TMCMS	TMCMS
CRASH INVESTIGATION SITE STATIC SIGN	•	8 8
CRASH INVESTIGATION SITE PERMANENT		
CRASH INVESTIGATION SITE TEMPORARY		
CRASH INVESTIGATION SITE CALL BOX	T	
PORTABLE TRAFFIC MANAGEMENT SYSTEM		$\overline{}$
DETEC	TORS	
MICROWAVE DETECTOR PERMANENT	1	x 0 9 0
INDICATES NO COVE	RAGE INDICATES	COVERAGE —
MICROWAVE DETECTOR TEMPORARY	X 0 0 0	XOO
NDUCTIVE LOOP DETECTOR		
DETECTOR LOOP		7
TRAFFIC SIGNAL QUEUE DETECTION SYSTEM	<u> </u>	
EXIT RAMP QUEUE DETECTION SYSTEM		
CAM		
CCTV DOME CAMERA	The	\bigcirc
oott pome offinerin		
	ICATIONS	
MICROWAVE		
SPREAD SPECTRUM	Pr H++	EHH
COMMUNICATIONS TOWER		
COMMUNICATION HUB		
EQUIPMENT CABINET	×	\boxtimes
FIBER OPTIC CABLE IN CONDUIT	<u>—24—</u>	=24=
SURVEYI	NG DATA	
NORTH ARROW (TRUE)	Z∢€	> —
CENTERLINE		
TREES AN	ID BRIISH	
VEGETATION LINE	DINUSII	~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~
TREES, DECIDUOUS		(0)
RO	ADS	
AGG SHOULDER		
CURB		=======
GUIDE RAIL	OR BARRIER	***************************************
GUARD RAIL		
TRACKS		

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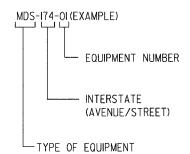
LEVEE OR NOISE BARRIER

	LEGEND	
FEATURE	SYMBOL-PROPOSED	SYMBOL-EXISTING

UTILITY FACILITIES

U	UTILITY FACILITIES				
UTILITY POLE / WOOD POLE		\otimes			
CAMERA POLE AND FOUNDATION					
FIRE HYDRANT		Ö			
FIBER OPTIC CABLE	—— F0 ——	F0			
UNDERGROUND ELECTRIC CABLE	Е — — Е	E			
UNDERGROUND TELEPHONE CABLE	Тт	T			
BURIED CABLE					
TS UNDGND CABLE					
TS GALV. STEEL CONDUIT					
WATER PIPE UNDGND					
GAS					
SANITARY SEWER					
TS HANDHOLE					
UTIL MANHOLE	•	0			
LIGHT POLE	X	¤			
TSC SERVICE INSTALL	#	†			
JUNCTION BOX	0				
FIRE		F			
COMMUNICATION VAULT					
SOLAR EQUIPMENT		#			

LOCATION IDENTIFICATION NUMBERS:



CRASH INVESTIGATION SITE CIS CMS CHANGEABLE MESSAGE SIGN ANT ANTENNA CLOSED CIRCUIT TELEVISION DOME CAMERA CCTV CT COMMUNICATIONS TOWER ERQ EXIT RAMP QUEUE DETECTION AND WARNING SYSTEM HRI HIGHWAY-RAIL INFORMATION SYSTEM COMMUNICATIONS HUB HUB ILDS INDUCTIVE LOOP DETECTOR STATION

MDS MICROWAVE DETECTOR STATION

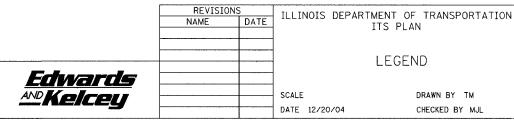
MDS MICROWAVE DETECTOR STATION

PTMS PORTABLE TRAFFIC MANAGEMENT SYSTEM

TMCMS TRUSS MOUNTED CHANGEABLE MESSAGE SIGN

TSQ TRAFFIC SIGNAL QUEUE DETECTION SYSTEM

ITS SHEET 4 OF 13



F.A.I. RTE.

74 STA. SECTION

COUNTY

TAZEWELL

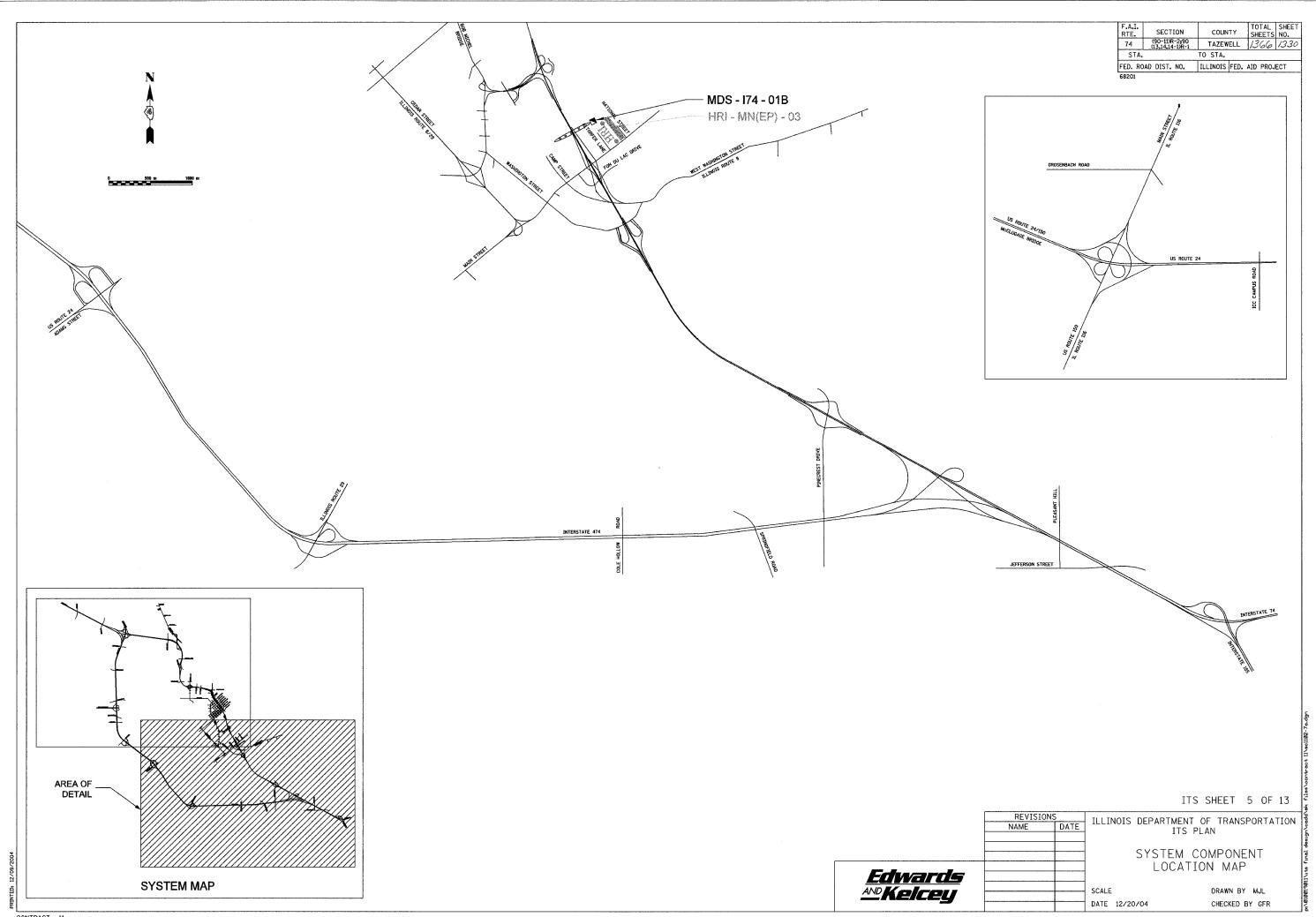
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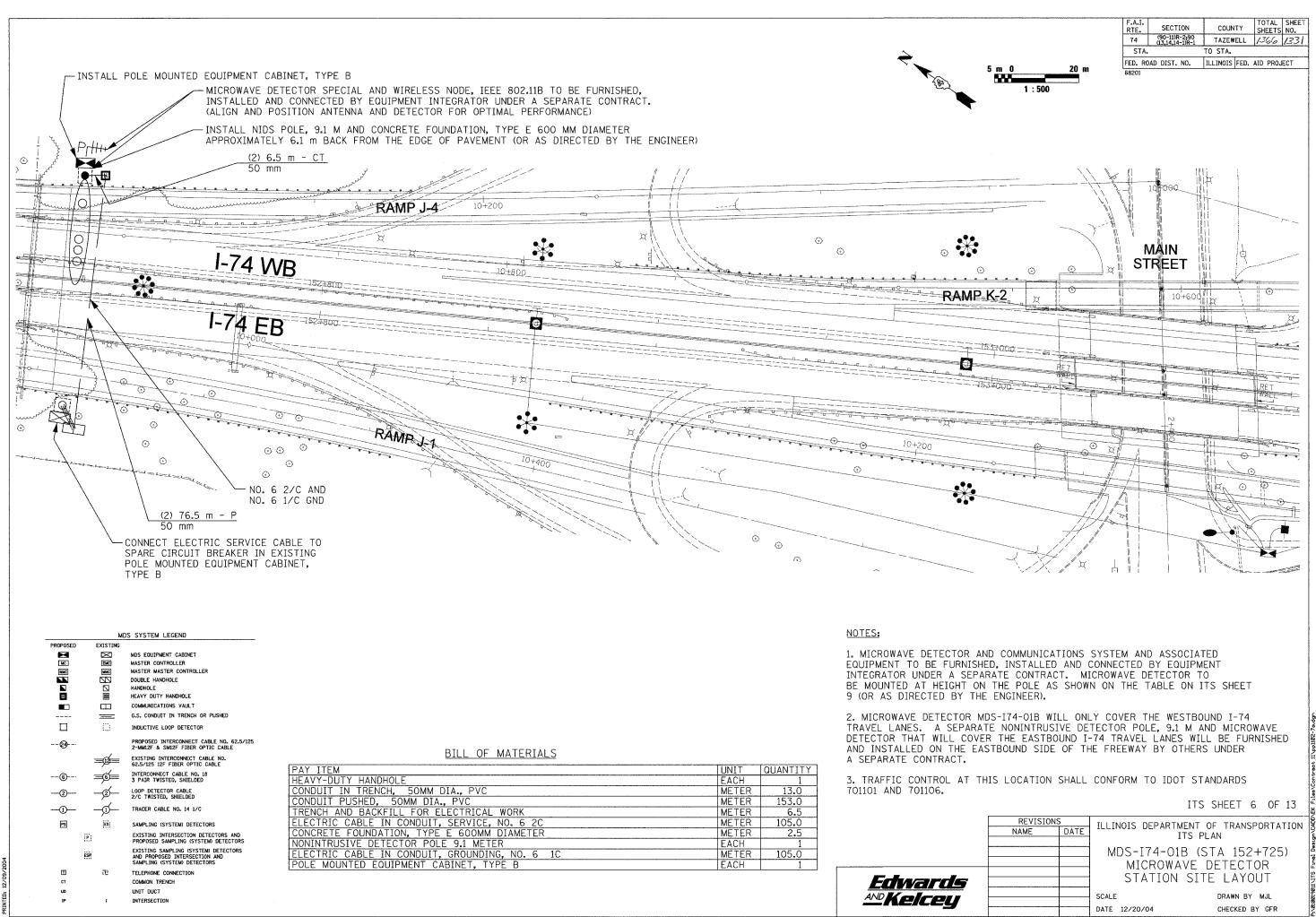
SHEETS NO.

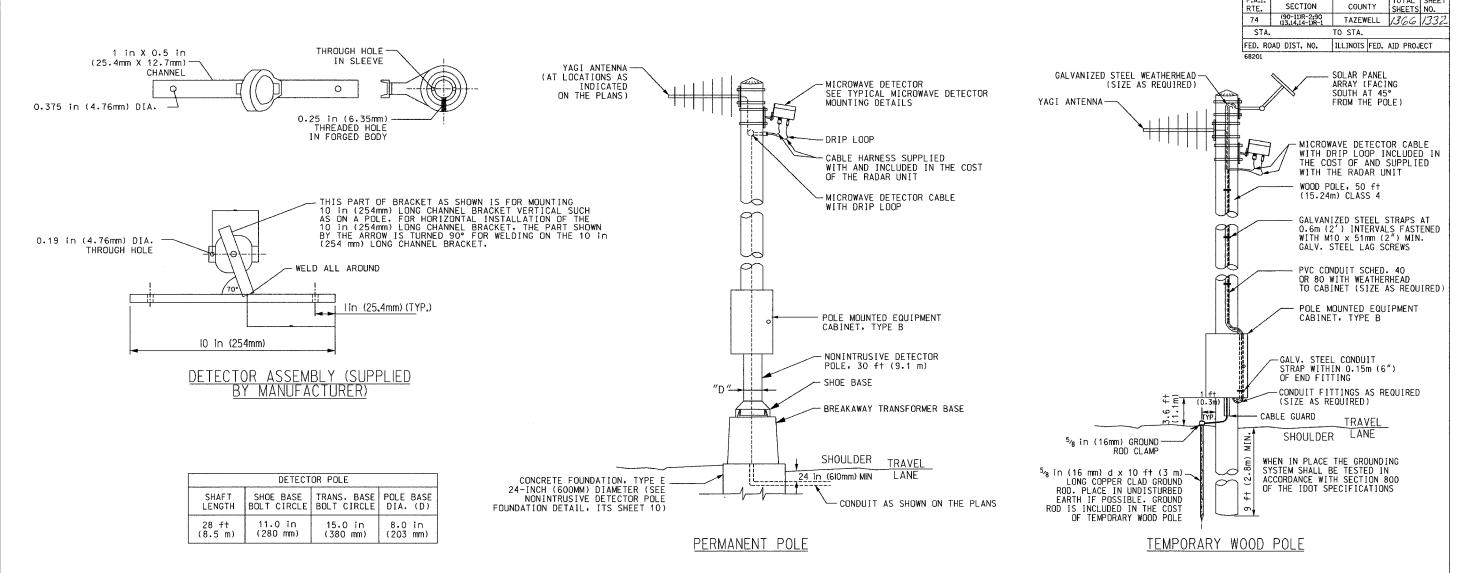
CONTRACT 11

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CONTRACT 11



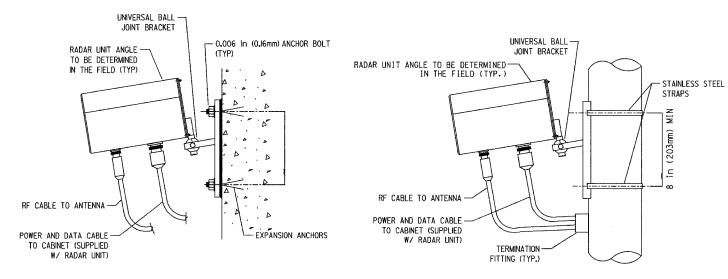


MICROWAVE DETECTOR POLE MOUNTING DETAIL

SEE MICROWAVE DETECTOR INSTALLATION DETAILS TABLE FOR POLE OFFSET AND MOUNTING HEIGHT (ITS SHEET 9)

NOTES:

- 1. ALL CABLES TO BE INSTALLED WITHIN CONDUIT AS NOTED.
- 2. CABLE/CONDUITS SHALL NOT ENTER TOPS OF ENCLOSURES, CABINETS OR PULL/JUNCTION BOXES.
- 3. CABLE HARNESS FROM POLE MOUNTED EQUIPMENT IS SUPPLIED WITH ITS ASSOCIATED EQUIPMENT. ALL STAINLESS STEEL STRAPS FOR FASTENING CABLES BRACKETS, ETC. ARE PAID FOR AS PART OF ITS ASSOCIATED EQUIPMENT. PROVIDE DRIP LOOP AT EACH CABLE TERMINATOR.
- 4. YAGI ANTENNA AND SOLAR PANEL ARRAY SHALL BE MOUNTED AS HIGH AS POSSIBLE ON THE POLE.
- 5. YAGI ANTENNA SHALL BE AIMED AT NEAREST MICROWAVE COMMUNICATIONS LINK FOR OPTIMUM PERFORMANCE PROVIDED LINE OF SIGHT EXISTS AND INSTALLED PER MANUFACTURER'S SPECIFICATIONS.



MOUNTED TO CONCRETE WALL

MOUNTED TO VERTICAL POLE

MICROWAVE DETECTOR MOUNTING DETAILS

ITS SHEET 7 OF 13 ILLINOIS DEPARTMENT OF TRANSPORTATION

ITS PLAN MICROWAVE DETECTOR MOUNTING DETAIL

Edwards AND Kelcey

DRAWN BY TM CHECKED BY MJL

CONTRACT 11

SCALE DATE 12/20/04

REVISIONS

NAME

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
74	(90-11)R-2;90 (13,14,14-1)R-1	TAZEWELL	1366	1333
STA.		TO STA.		
FED. RO	AD DIST. NO.	ILLINOIS FED.	AID PROJ	ECT

TABLE 1 - MICROWAVE DETECTOR LOCATIONS FOR I-74 PEORIA ITS

DETECTOR	DETECTOR	LOCATION	DETECTOR	DETECTOR	COMMENTS	No OF	SETBACK*	HEIGHT*
STATION	ID	LOCATION	TYPE	COVERAGE	COMMENTS	LANES	"X"	ΨY"
21+550	(T)MDS-1474-01	I-474 & PINECREST	TEMPORARY	MAINLINE	TEMPORARY WOOD POLE	4	50' (I5 m)	25' (8 m)
144+220	(T)MDS-174-01	WAR MEMORIAL DRIVE INTERCHANGE (EAST SIDE)	TEMPORARY	MAINLINE	TEMPORARY WOOD POLE	5	20' (6 m)	17' (5 m)
10+800	MDS-1474-01	I-474 & US 24 (ADAMS STREET)	PERMANENT	MAINLINE	COMBINATION RTMS/CCTV POLE	4	20' (6 m)	17' (5 m)
151+600/152+400	(T)MDS-174-02	RIVERFRONT DRIVE - MAIN STREET (EP)	TEMPORARY	MAINLINE	TEMPORARY WOOD POLE	4/6	20' (6 m)	17' (5 m)
155+200	(T)MDS-174-03	WASHINGTON STREET- PINECREST DRIVE	TEMPORARY	MAINLINE	TEMPORARY WOOD POLE	4	20' (6 m)	17' (5 m)
144+750	MDS-174-03	FOREST HILL AVENUE (NORTH SIDE)	PERMANENT	MAINLINE	PERMANENT POLE	6	20' (6 m)	17' (5 m)
146+450	MDS-174-04	NEBRASKA AVENUE (NORTH SIDE)	PERMANENT	MAINLINE	PERMANENT POLE	6	20' (6 m)	17' (5 m)
148+825	(T)MDS-174-04	ARMSTRONG AVENUE	TEMPORARY	MAINLINE	TEMPORARY WOOD POLE	6	20' (6 m)	17' (5 m)
152+725	MDS-174-01A	MAIN STREET (EP) INTERCHANGE (SOUTH SIDE)	PERMANENT	MAINLINE	PERMANENT POLE	6	20' (6 m)	17' (5 m)
143+215	MDS-174-02	STERLING AVENUE - WAR MEMORIAL DRIVE	PERMANENT	MAINLINE	PERMANENT POLE, 2 DETECTORS	6,1	20' (6 m)	17' (5 m)
152+725	MDS-174-0IB	MAIN STREET (EP) INTERCHANGE (NORTH SIDE)	PERMANENT	MAINLINE	PERMANENT POLE	6	20' (6 m)	17' (5 m)

^{*} SEE MICROWAVE DETECTOR STATION INSTALLATION DETAILS (TABLE 2)

TABLE 2 - MICROWAVE DETECTOR INSTALLATION DETAILS

HORIZONTAL	MOUNTING HEIGHT FT (M)			
OFFSET FT (M)	MINIMUM	MAXIMUM	RECOMMENDED	
10.0 (3.0)	17.0 (5.2)	20.0 (6.1)	17.0 (5.2)	
15.0 (4.6)	17.0 (5.2)	20.0 (6.1)	17.0 (5.2)	
20.0 (6.1)	17.0 (5.2)	20.0 (6.1)	17.0 (5.2)	
25.0 (7.6)	17.0 (5.2)	25.0 (7.6)	20.0 (6.1)	
30.0 (9.1)	23.0 (7.0)	25.0 (7.6)	23.0 (7.0)	
35.0 (10.7)	25.0 (7.6)	25.0 (7.6)	25.0 (7.6)	
40.0 (12.2)	25.0 (7.6)	25.0 (7.6)	25.0 (7.6)	
45.0 (13.7)	25.0 (7.6)	25.0 (7.6)	25.0 (7.6)	
50.0 (15.2)	25.0 (7.6)	25.0 (7.6)	25.0 (7.6)	

DIMENSIONS REFERENCED FROM THE EDGE OF PAVEMENT.

NOTES:

- 1. DETECTOR UNIT TO BE AIMED AT CENTER OF DETECTION ZONE.
 WHEN TWO DETECTORS ARE USED IN TANDEM AT A GIVEN LOCATION,
 DETECTION ZONE SHALL INCLUDE ALL TRAVEL LANES IN A SINGLE
 DIRECTION NEAREST EACH DETECTOR. WHEN A SINGLE DETECTOR
 IS USED AT A GIVEN LOCATION, THE DETECTOR ZONE SHALL INCLUDE
 ALL TRAVEL LANES IN BOTH DIRECTIONS. FINAL SETUP AND CALIBRATION
 TO BE PERFORMED BY MANUFACTURER'S FIELD REPRESENTATIVE
 IN CONJUNCTION WITH THE EQUIPMENT INTEGRATOR.
- 2. DETECTOR UNIT MAY BE MOUNTED ON A TEMPORARY WOOD OR PROPOSED STEEL POLE AS INDICATED ON THE PLANS. POLE SHALL BE INSTALLED OUTSIDE OF THE CLEAR ZONE OR SHALL BE PROTECTED FROM TRAFFIC.

ITS SHEET 8 OF 13

	REVISIONS DATE		ILLINOIS DEPARTMENT OF TRANSPORTATION		
			ILLINO	ITS PLAN	
				113 F	LAN
				MICROWAVE	DETECTOR
				MICHOMAAF	DETECTOR
				INSTALLATIO	ON DETAIL
<i>Edwards</i>					
AND Kelceu			SCALE		DRAWN BY MJL
			DATE 12	2/20/04	CHECKED BY GFR

TYPICAL MICROWAVE DETECTOR INSTALLATION CROSS SECTION VIEW

DETECTION ZONE

SEE NOTE 1

E.P.

HORIZONTAL OFFSET (SEE TABLE 1)

-SEE MICROWAVE DETCTOR MOUNTING DETAILS (ITS SHEET 8)

45° ELEVATION

E.S.

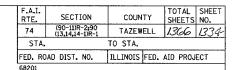
BEAM-WIDTH

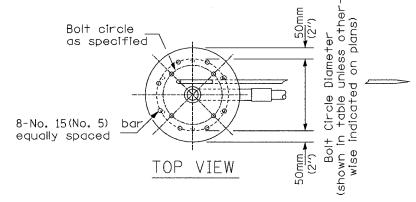
-SEE NOTE 2

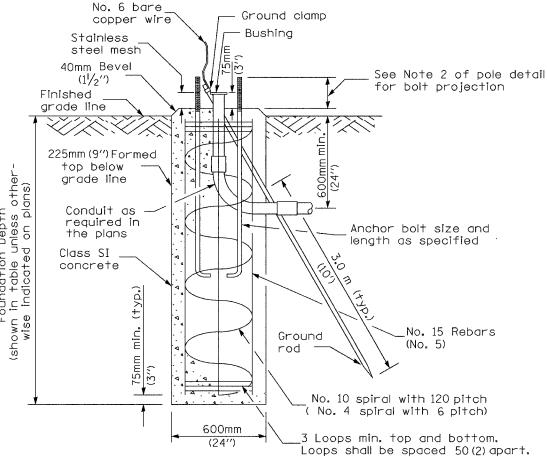
DISTANCE "X"
(SEE TABLE 1)

DISTANCE

CONTRACT 11







Pole Height	Bolt Circle Diameter	Foundation depth
9.1m (30′)	380mm (15.0″)	2.5m (8'-0'')

Notes:

- 1. The Engineer shall determine the class of soil during excavation. These foundation depths are for sites which have cohesive soils (clayey silt, sandy clay, etc.) along the length of the shaft, with an average Unconfined Compressive Strength (Qu) > 100 kPa (1.0 tsf). This strength shall be verified by boring data prior to construction or with testing by the Engineer during foundation drilling. The Bureau of Bridges & Structures should be contacted for a revised design if other conditions are encountered.
- 2. The anchor bolts and raceways shall be properly secured in place.
- 3. Concrete shall be class "SI" Concrete and the foundation must be cured for ten (10) days before the pole is erected.
- 4. The cable trench shall be backfilled and firmly compacted before the pole is erected.
- 5. For sloping grades, the foundation design depth shall be increased by the corresponding cross slope shaft depth increase factor given by:
 - A. Cohesive soil cross slope shaft increase factor 0.009 x (slope angle) + 1.0
 - B. Granular soil cross slope shaft increase factor 0.00005 x (slope angle) + 1.0
- 6. Install grounding system in accordance with Section 807 of the IDOT Standard Specifications.

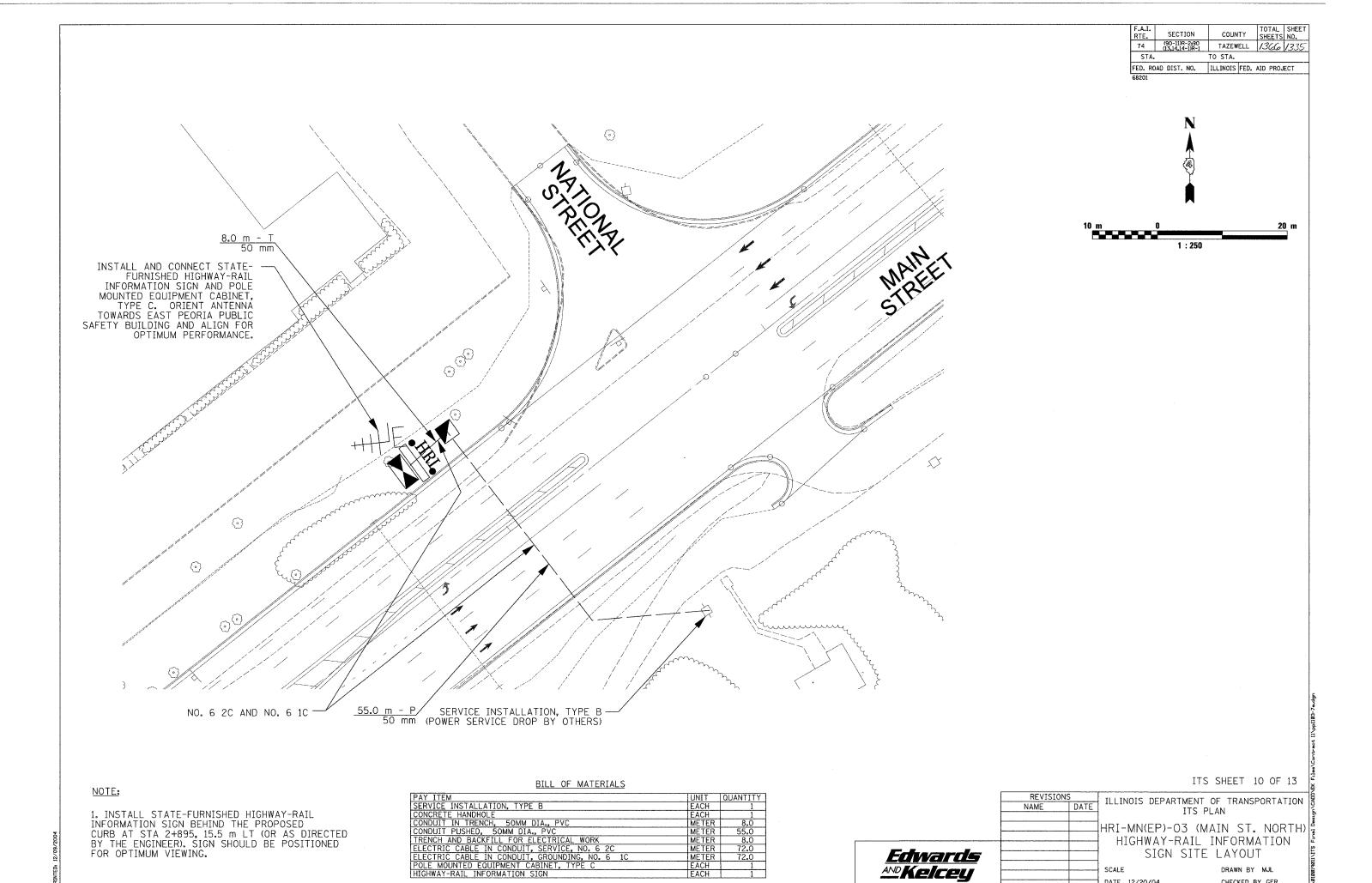
ITS SHEET 9 OF 13

REVISIONS
NAME DATE

ILLINOIS DEPARTMENT OF TRANSPORTATION
ITS PLAN

NONINTRUSIVE DETECTOR
POLE
FOUNDATION DETAIL

SCALE DRAWN BY CADD
DATE 12/20/04 CHECKED BY MJL



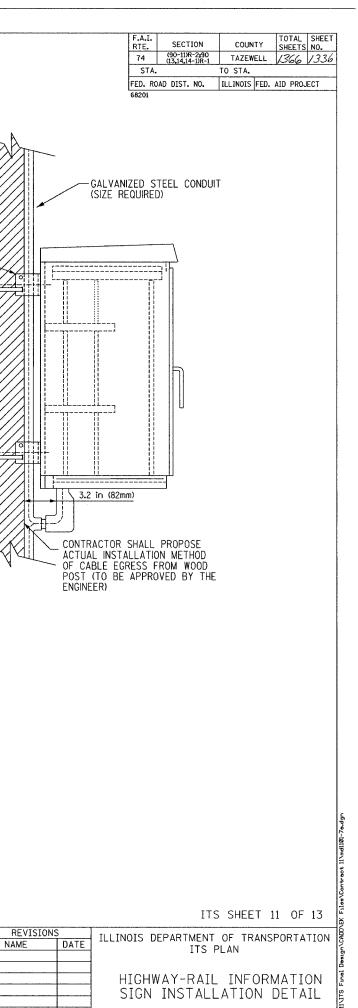
SCALE

DATE 12/20/04

DRAWN BY MJL

CHECKED BY GFR

CONTRACT 11



SIGNAL HEAD, LED, I-FACE, 300 mm TO 600 mm (12 in TO 24 in) DIRECTIONAL ANTENNA TO BE MOUNTED ON GALVANIZED STEAL CONDUIT OR AS DIRECTED BY THE ENGINEER 100 mm × 150 mm (4 ft × 6 ft) WOOD SIGN SUPPORT GALVANIZED STEEL CONDUIT (SIZE AS REQUIRED). FOUR (4) EVENLY SPACED CONDUIT CLAMPS SHALL BE USED TO ATTACH CONDUIT TO POST. 900 mm x 900 mm (3 ft x 3 ft) SIGN, WIO SUPPLEMENTAL STREET SIGN, "MAIN STREET" POLE MOUNTED EQUIPMENT CABINET, TYPE C CABLE GUARD-0.3 M (1 ft) 90" 5/8 in (16 mm) GROUND -ROD CLAMP TYP. 610 mm (24 in) MIN $\frac{5}{8}$ in (16 mm) d x 10 ft (3 M)-LONG COPPER CLAD GROUND (5 ROD. PLACE IN UNDISTURBED ≥ EARTH IF POSSIBLE. GROUND ROD IS INCLUDED IN THE COST OF HRI SIGN.

MOUNTING DETAIL

RELAY CONTACTS AND COILS (OPTIONAL) CONTACT MAPPING RF RECEIVER 12-24 VDC POWER SUPPLY

HIGH CURRENT

-POST CLAMP

HARDWARE (TYP)

CONDUIT CLAMPS

12-24 VDC POWER FOR RF TRANSCEIVER PAIR TO FLASHING BEACON HRI SIGN SCHEMATIC

HIGH CURRENT CONTACT

TYPE C CABINET

OR AS SPECIFIED

-I20 VAC

WOOD SIGN

DISTANCE AS REQUIRED BY MANUFACTURER

-CONTACT CLOSURE

POLE MOUNTED EQUIPMENT CABINET,

OVER-VOLTAGE

PROTECTOR

-FROM ANTENNA

POST CLAMP — HARDWARE (TYP)

SCALE DATE 12/20/04

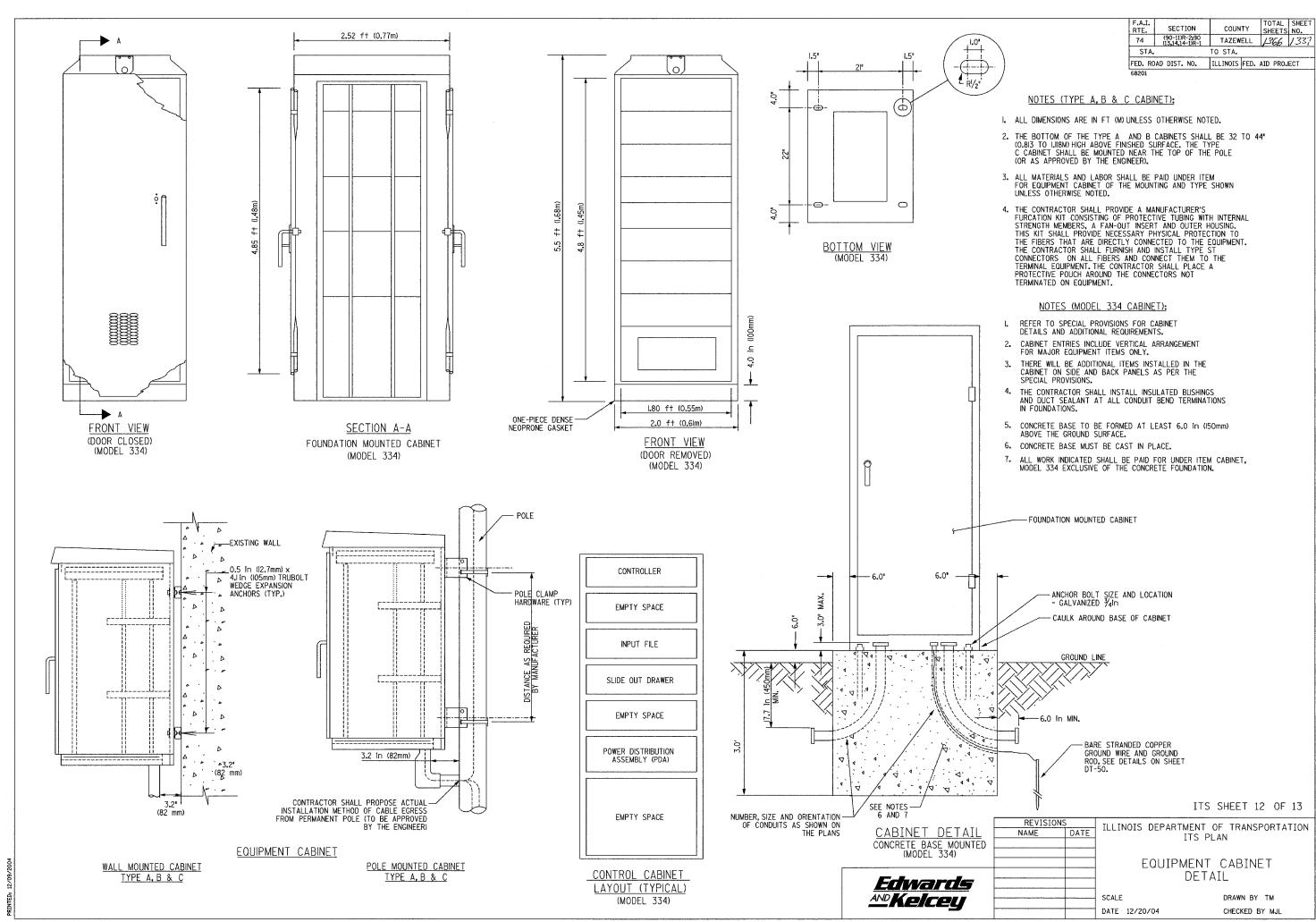
DRAWN BY DHI CHECKED BY JEZ

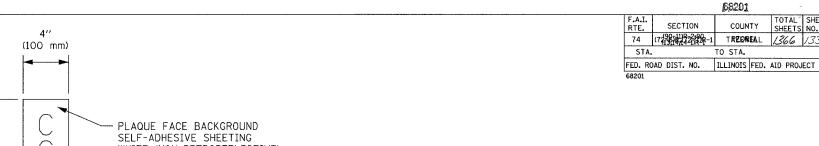
NOTES:

I. ALL ITEMS (EXCEPT POLE MOUNTED EQUIPMENT CABINET, TYPE C AND CONDUIT) TO BE STATE-FURNISHED. ALL ITEMS SHOWN TO BE INSTALLED UNDER THIS CONTRACT.

WHEN IN PLACE THE GROUNDING SYSTEM SHALL BE TESTED IN ACCORDANCE WIT THE IDOT

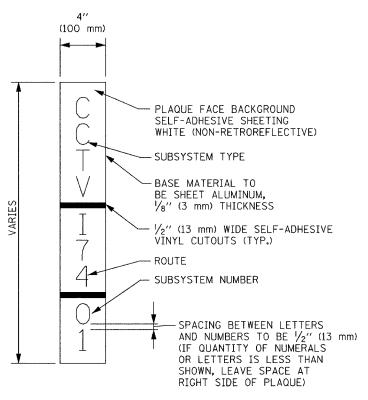
SPECIFICATIONS.





22" (560 mm) SUBSYSTEM ROUTE SUBSYSTEM TYPE NUMBER PLAQUE FACE BACKGROUND SELF-ADHESIVE SHEETING WHITE (NON-RETROREFLECTIVE) LETTERS AND NUMBERS 2" (50 mm) SERIES "D" SELF ADHESIVE VINYL CUTOUTS SPACING BETWEEN LETTERS AND NUMBERS TO BE $\frac{1}{2}$ " (13 mm) BASE MATERIAL TO BE SHEET ALUMINUM, (IF QUANTITY OF NUMERALS $\frac{1}{8}$ " (3 mm) THICKNESS OR LETTERS IS LESS THAN SHOWN, LEAVE SPACE AT RIGHT SIDE OF PLAQUE)

CONTROL CABINET IDENTIFICATION PLAQUE DETAIL



IDENTIFICATION PLAQUE DETAIL

LEGEND

SUBSYSTEM TYPE

CIS - CRASH INVESTIGATION SITE CCTV - CLOSED CIRCUIT TELEVISION CMS - CHANGEABLE MESSAGE SIGN

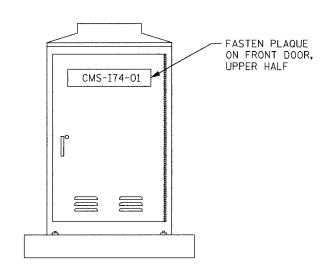
HUB - COMMUNICATIONS HUB

ILDS - INDUCTIVE LOOP DETECTOR STATION

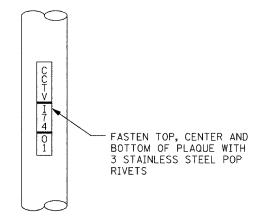
MDS - MICROWAVE DETECTOR STATION

NOTES:

- 1. IDENTIFICATION PLAQUES TO FOLLOW SECTION 1069.02 OF THE IDOT STANDARD SPECIFICATIONS.
- 2. SUBSYSTEM NUMBERING SCHEME TO BE DETERMINED BY THE DEPARTMENT IN CONSULTATION WITH THE EQUIPMENT INTEGRATOR AND DESIGN ENGINEER BEFORE IDENTIFICATION PLAQUES ARE PROCURED AND INSTALLED BY THE CONTRACTOR.
- 3. FOR POLE-MOUNTED CABINETS, IDENTIFICATION PLAQUES SHALL ONLY BE INSTALLED ON THE POLES.

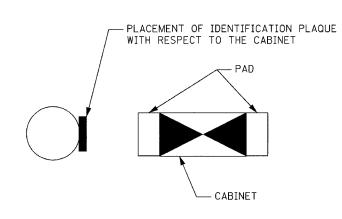


CONTROL CABINET IDENTIFICATION PLAQUE REQUIREMENTS AND PLACEMENT (TYPICAL ALL CONTROL CABINETS)



POLE MOUNT IDENTIFICATION PLAQUE REQUIREMENTS AND PLACEMENT

(TYPICAL ALL CAMERA POLES)



ITS SHEET 13 OF 13

SHEETS NO.

1366 1338

REVISIONS NAME Edwards AND Kelcey SCALE

ILLINOIS DEPARTMENT OF TRANSPORTATION ITS PLAN ITS COMPONENT IDENTIFICATION

PLAQUE DETAILS DRAWN BY CADD

DATE 12/20/04

CHECKED BY MJL

둡 **ENGINEER: CHRISTOPHER MAUSHARD**

INDEX OF SHEETS

- 1. COVER SHEET
- 2. LISTING OF STANDARDS
- 3. BILL OF MATERIALS
- 4.-8. TYPICAL SECTIONS
- 9.-10. SCHEDULE OF QUANTITIES
- 11. MAINTENANCE OF TRAFFIC
- 12.-20. ROADWAY PLANS
- 21. PAVEMENT MARKING PLAN
- 22. PAVEMENT OVERLAY UNDER STRUCTURE DETAIL
- 23. CLASS B PATCHES (SPECIAL) DETAIL
- 24. BUTT JOINT (SPECIAL) DETAIL
- 25.-28. DISTRICT CADD STANDARDS

DESIGN DESIGNATION

FAI ROUTE 74 - 7625 (25) INTERSTATE 38.28

STATE OF ILLINOIS

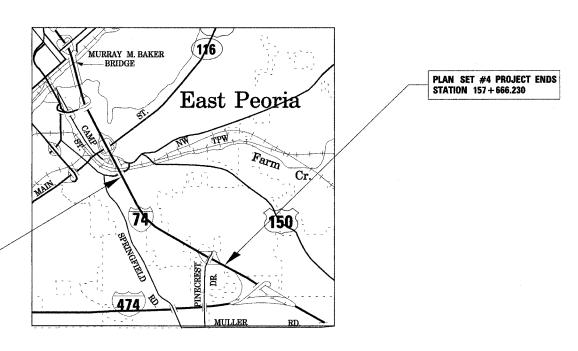
DEPARTMENT OF TRANSPORTATION

DIVISION OF HIGHWAYS

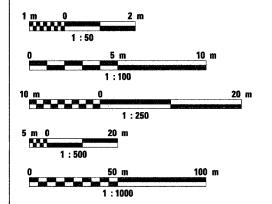
PROPOSED HIGHWAY PLANS

FAI ROUTE 74 SECTION (90-11)R-2;90(13,14,14-1)R-1 **PROJECT TAZEWELL** COUNTY

C-94-010-02



METRIC RATIOS



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.

JOINT UTILITY LOCATION INFORMATION FOR EXCAVATION 1-800-892-0123

GROSS LENGTH OF IMPROVEMENT: 2.886 km (1.793 MILES)

NET LENGTH OF IMPROVEMENT: 2.886 km (1.793 MILES)

CONTRACT NO. 68201 CATALOG NO. 031087-18D

PLAN SET #4 PROJECT BEGINS STATION 154+780.000

PLAN SET #4

PRINTED BY THE AUTHORITY OF THE STATE OF ILLINOIS

LOCATION OF SECTION INDICATED THUS:-

QC/QA BITUMINOUS

BITUMINOUS SUPERPAVE

68201

COUNTY

TAZEWELL 1944

F.A._. RTE.

68201

SECTION

*(90-11)R-2;90(13,14,14-1)R-1

D-94-010-02

68201 ______ _TAZEWELL_ STA. TO STA. FED. ROAD DIST. NO. _ ILLINOIS FED. AID PROJECT

*(90-11)R-2;90(13,14,14-1)R-1

HIGHWAY STANDARDS

420001 PAVEMENT JOINTS

442101 CLASS B PATCHES

630001 STEEL PLATE BEAM GUARDRAIL

630301 SHOULDER WIDENING FOR TYPE I (SPECIAL) GUARDRAIL TERMINALS

635006 REFLECTOR AND TERMINAL MARKER PLACEMENT

701101 OFF ROAD OPERATIONS, MULTILANE LESS THAN 4.5 M (15') AWAY FOR SPEEDS >= 45 MPH

701400 APPROACH TO LANE CLOSURE, FREEWAY/EXPRESSWAY

701401 LANE CLOSURE, FREEWAY/EXPRESSWAY

701406 LANE CLOSURE, FREEWAY/EXPRESSWAY, DAY OPERATIONS ONLY

701411 LANE CLOSURE MULTILANE AT ENTRANCE OR EXIT RAMP FOR SPEEDS >= 45 MPH

701421 LANE CLOSURE, MULTILANE, DAY OPERATIONS ONLY, FOR SPEEDS >= 45 MPH TO 55 MPH

701422 LANE CLOSURE, MULTILANE, FOR SPEEDS >= 45 MPH TO 55 MPH

701426 LANE CLOSURE, INTERMITTENT OR MOVING OPERATIONS FOR SPEEDS >= 45 MPH

702001 TRAFFIC CONTROL DEVICES

780001 TYPICAL PAVEMENT MARKINGS

781001 TYPICAL APPLICATIONS OF RAISED REFLECTIVE PAVEMENT MARKERS

886001 DETECTOR LOOP INSTALLATION

DISTRICT CADD STANDARDS

440001-D4 BITUMINOUS SURFACE REMOVAL (COLD MILLING)

63Ø1Ø1-D4 GUARDRAIL EROSION CONTROL TREATMENTS

836002-D4 DETAIL FOR TRAFFIC COUNTERS USING TERMINAL FACILITY

I-74 PROJECT STANDARDS

642001-I74 I-74 SHOULDER RUMBLE STRIPS

GENERAL NOTES

SEE MASTER GENERAL NOTES FOR APPLICABLE GENERAL NOTES FOR THIS PLAN SET

REVISIO NAME	DATE	ILLINOIS DEPARTMEN	T OF TRANSPORTATION
		STANDA	ARDS
		GENERAL	NOTES
		DATE 12/01/04	DRAWN BY CEM

*(90-11)R-2;90(13,14,14-1)R-1

					***************************************			90	% FED			RBAN / IM			907	FED		90% F	rn .
				10% STATE CONSTRUCTION TYPE CODE							5% STATE			10% CI					
	BILL OF MATERIALS FOR PLAN SET #4 FOR INFORMATION ONLY				ROADWAY	BRIDGE	BRIDGE	BRIDGE	BRIDGE	MINOR STRUCTURES	OVERHEAD SIGNS	LIGHTING	ITS	TRAFFIC SIGNAL INTERCONNECT	TRAFFIC SIGNALS	TRAFFIC SIGNAL INTERCONNECT	TRAFFIC SIGNALS	TRAFFIC SIGNAL INTERCONNECT	TRAFFIC SIGNALS
CODE NO. 63100167	PAY ITEM TRAFFIC BARRIER TERMINAL, TYPE I SPECIAL (TANGENT)	UNIT EACH	TOTAL QUANTITY 5	1000-2A 5	J000-2A >	X271-2A	X281-2A	X781-2A	X028-2A	Y007	Y002-1C	Y030-1E	Y035	Y031-1F	Y031-1F	Y031-1F	Y031-1F	Y031-1F	Y031-1F
78100100	RAISED REFLECTIVE PAVEMENT MARKER	EACH	229	229															
78201000	TERMINAL MARKER DIRECT APPLIED	EACH	5	5															
783ØØ2ØØ	RAISED REFLECTIVE PAVEMENT MARKER REMOVAL	EACH	229	229															
863Ø1ØØØ		EACH	1	1															
M4Ø6Ø2ØØ		M. TON	25.6	25.6															
M4Ø6Ø3ØØ	AGGREGATE (PRIME COAT)	M. TON	135.9	135.9															
M4Ø6Ø99Ø		SQ. M	226	226															
M4400040		SQ. M	39,807	39,807															
M4401000				3,625															
		SQ. M	3,625																
M442625Ø		SQ. M	1,122	1,122															
M44294ØØ		METER	2,359	2,359						, ,									
M4812000		M. TON	1,207	1,207															
M4820000		M. TON	3,289	3,289															
M632ØØ3Ø		METER	57	57															
M633Ø61Ø	REMOVE AND RE-ERECT STEEL PLATE BEAM GUARDRAIL	METER	1,291	1,291															
M7Ø3Ø1ØØ	SHORT TERM PAVEMENT MARKING	METER	2,849	2,849															
M7Ø3Ø22Ø	TEMPORARY PAVEMENT MARKING - LINE 100 MM	METER	11,201	11,201															
M7Ø3Ø24Ø	TEMPORARY PAVEMENT MARKING - LINE 150 MM	METER	1,400	1,400															
M7Ø3Ø25Ø	TEMPORARY PAVEMENT MARKING - LINE 200 MM	METER	527	527													······································		
M7Ø31ØØØ	WORK ZONE PAVEMENT MARKING REMOVAL	SQ. M	87	87															
M78Ø2Ø1Ø	POLYUREA PAVEMENT MARKING, TYPE I - LINE 100 MM	METER	11,201	11,201															
M78Ø2Ø15	POLYUREA PAVEMENT MARKING, TYPE I - LINE 150 MM	METER	1,400	1,400															
M78Ø2Ø2Ø	POLYUREA PAVEMENT MARKING, TYPE I - LINE 200 MM	METER	527	527															
M78Ø2Ø3Ø	POLYUREA PAVEMENT MARKING, TYPE I - LINE 300 MM	METER	50	50															
M81ØØ24Ø	CONDUIT IN TRENCH, 30 MM DIA., PVC	METER	28.2	28.2					,										
M8150200	TRENCH AND BACKFILL FOR ELECTRICAL WORK	METER	23.7	23.7													***************************************		
M815Ø2Ø5	TRENCH AND BACKFILL FOR ELECTRICAL WORK (SPECIAL)	METER	8.4	8.4															
M873151Ø	ELECTRIC CABLE IN CONDUIT, LEAD IN, NO. 18, 3 PAIR	METER	33.6	33.6															
M886Ø4ØØ	DETECTOR LOOP SPECIAL	METER	45.7	45.7															
MXØ32Ø83	GUARDRAIL AGGREGATE EROSION CONTROL	M. TON	223	223															
MX4Ø6Ø66	POLYMERIZED BIT. CONCRETE SURFACE COURSE, SUPERPAVE, MIX E N90, 38m	ım M. TON	3,905	3,905															
MX4Ø6248	POLYMERIZED BIT. CONCRETE BINDER COURSE, SUPERPAVE, IL 19.0 N90, 57mm	m M. TON	5,845	5,845															
MZØ172Ø5	DOWEL BARS 38 MM	EACH	3,180	3,180															
MZØ215ØØ	EXPANSION JOINTS 75 MM	METER	44	44															
X633Ø1ØØ	REMOVE AND RE-ERECT TRAFFIC BARRIER TERMINAL, TYPE I SPECIAL	EACH	4	4															
*4001603		SQ. M	1,571	1,571															
*4001614	CLASS B PATCHES (SPECIAL)	SQ. M	107.2	107.2															

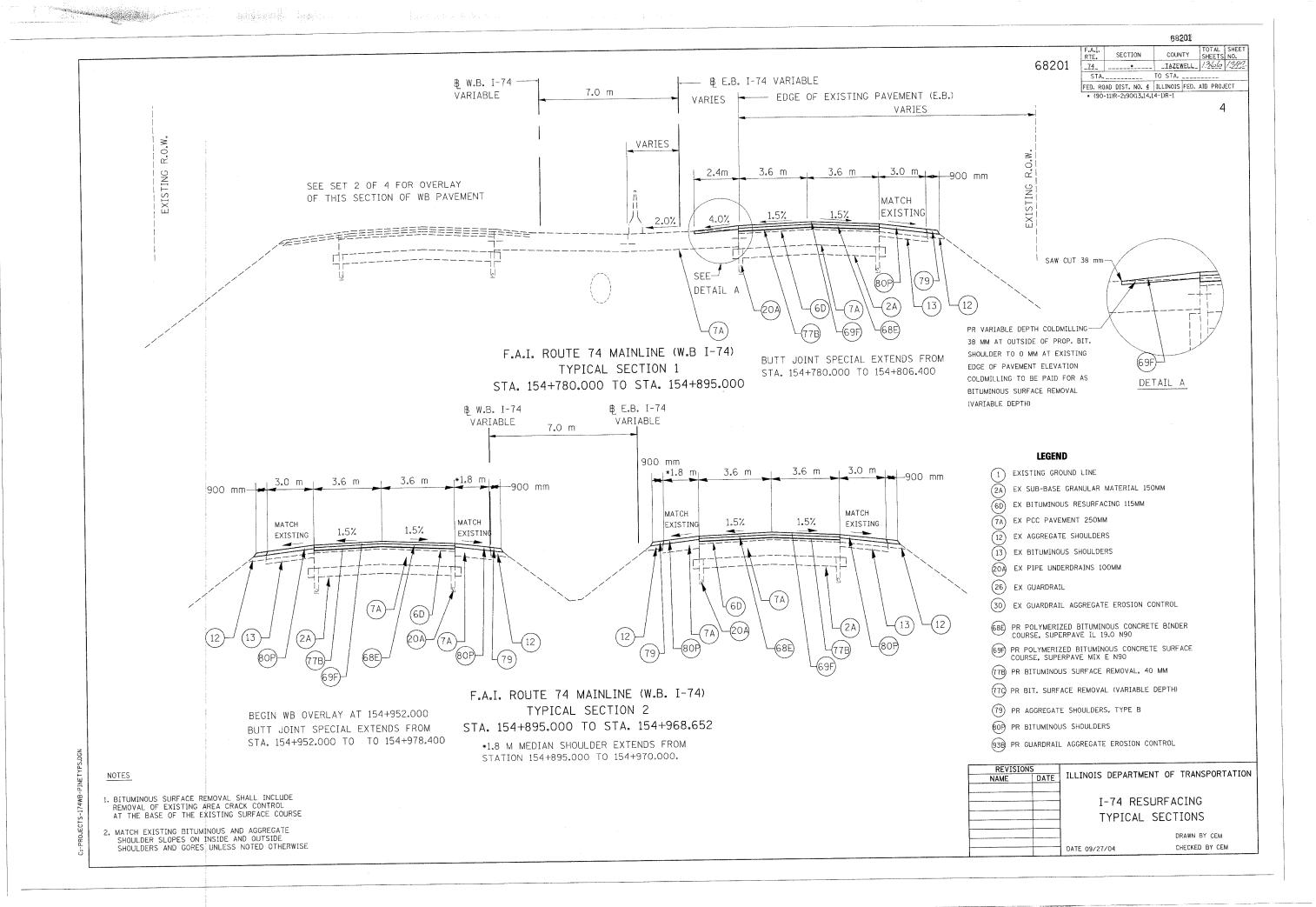
* SPECIALTY ITEMS
+ FUND CODE SFTY-3N
++ FUND CODE YOBO
+++ FUND CODE SFTY-3C

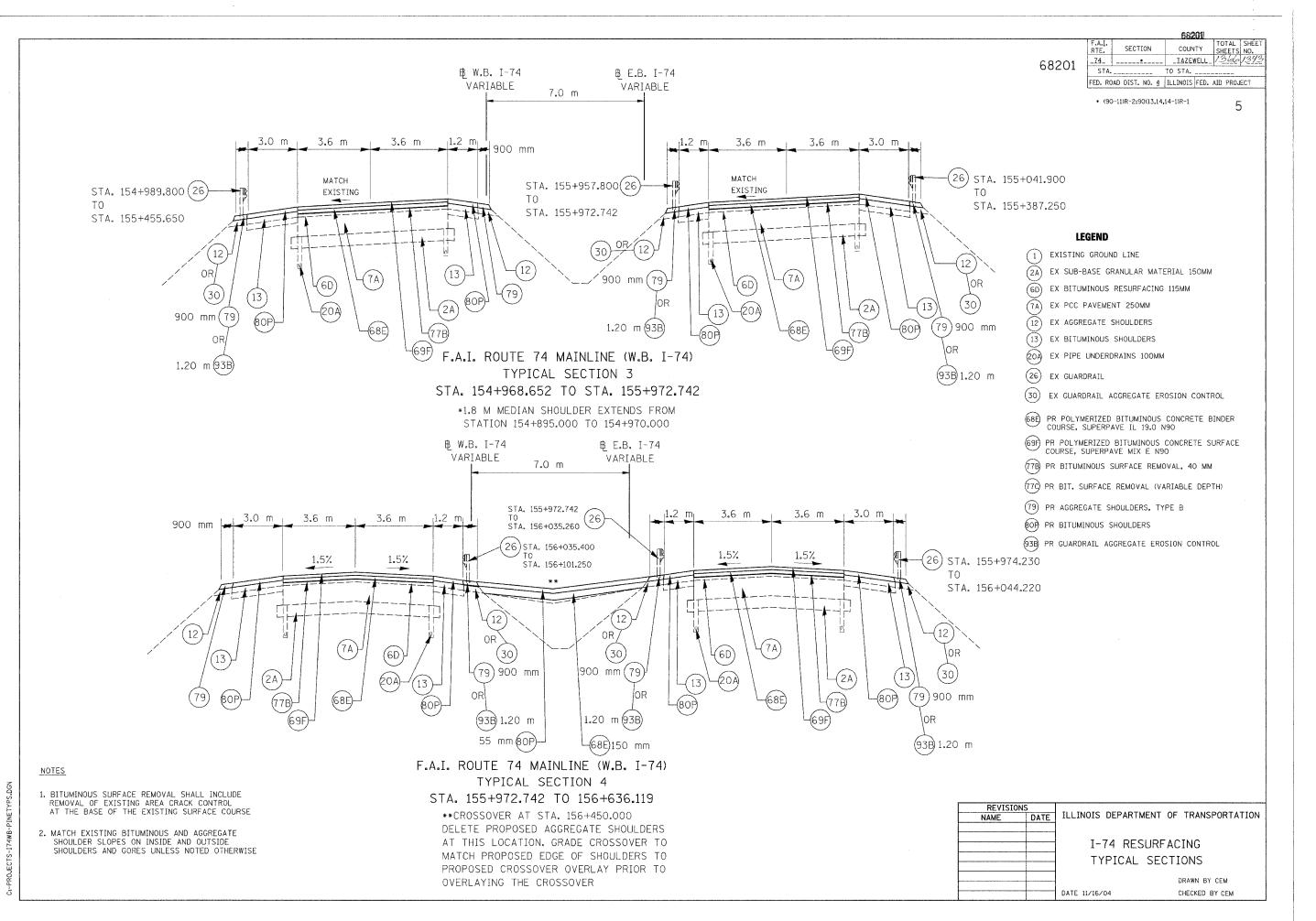
A NON PARTICIPATING

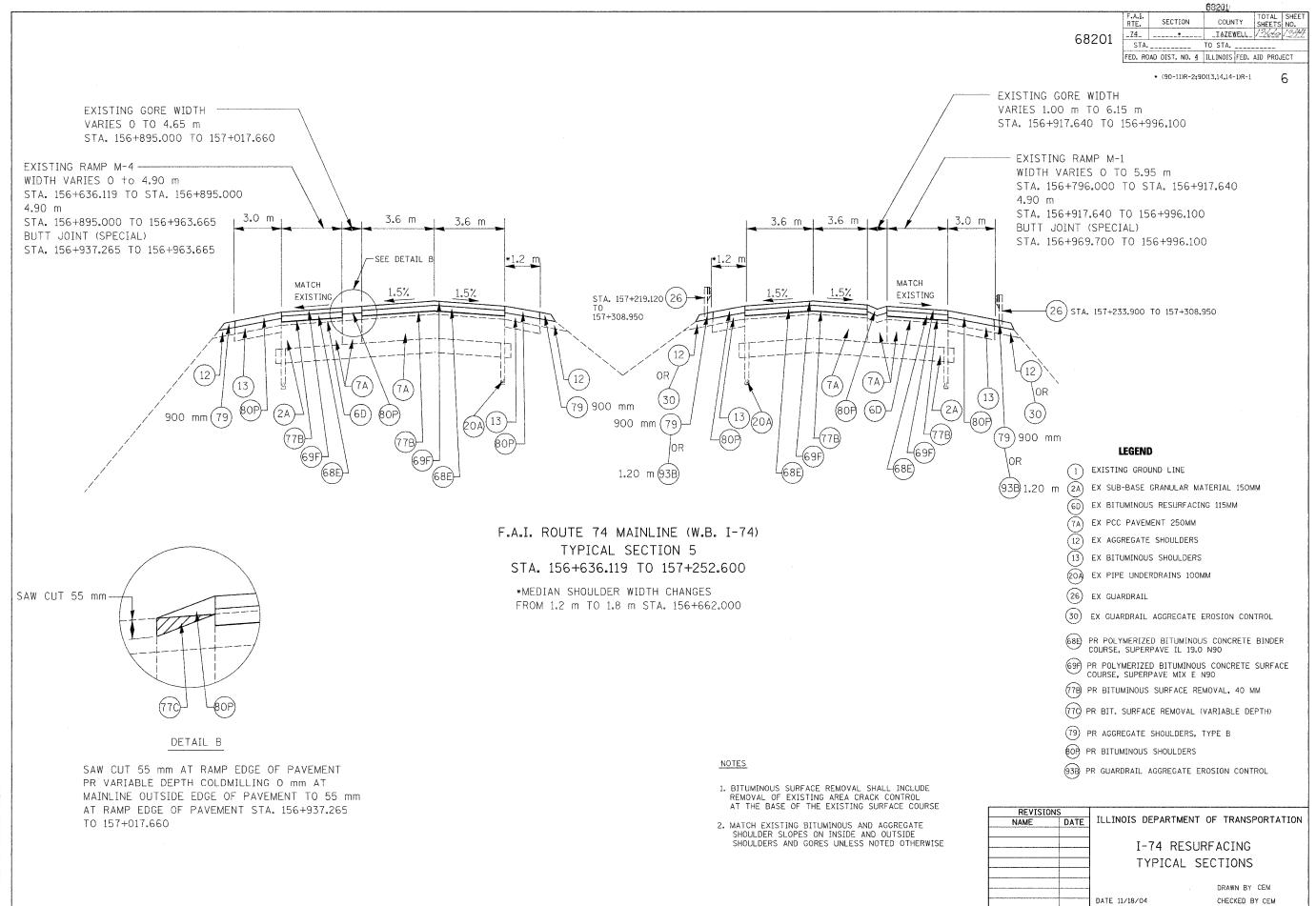
BILL OF MATERIALS FAI ROUTE 74 (I-74)

DATE 12/13/04

DRAWN BY CEM CHECKED BY CEM





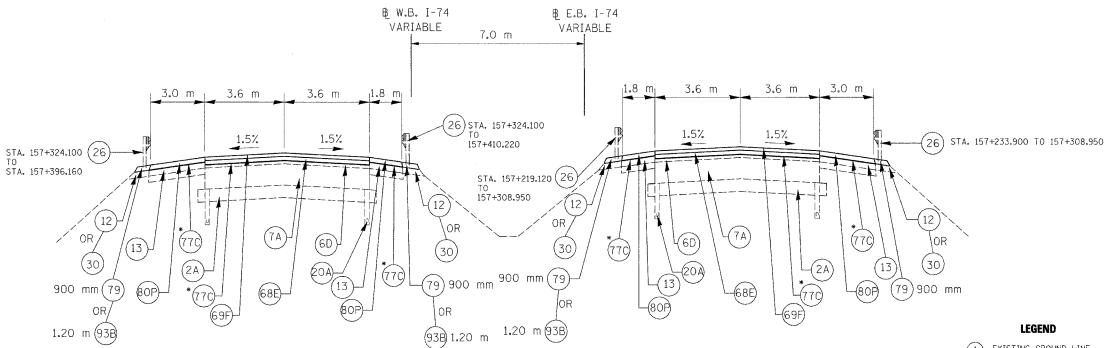


Cr-PROJECTS-174WB-PINETYPS,DGN

RTE. SECTION COUNTY SHEETS NO.	ET
_74 TAZEWELL \364 \35	15
STA TO STA	
FED. ROAD DIST. NO. 4 ILLINOIS FED. AID PROJECT	

• (90-11)R-2:90(13:14:14-1)R-1

7



F.A.I. ROUTE 74 MAINLINE (W.B. I-74) TYPICAL SECTION 6 STA. 157+252.600 TO 157+376.400

* SEE PLAN SHEETS AND PAVEMENT OVERLAY UNDER SPECIAL STRUCTURES
DETAIL FOR VARIABLE DEPTH COLDMILLING OF SHOULDERS AND MAINLINE PAVEMENT

NOTES

- 1. BITUMINOUS SURFACE REMOVAL SHALL INCLUDE REMOVAL OF EXISTING AREA CRACK CONTROL AT THE BASE OF THE EXISTING SURFACE COURSE
- 2. MATCH EXISTING BITUMINOUS AND AGGREGATE SHOULDER SLOPES ON INSIDE AND OUTSIDE SHOULDERS AND GORES UNLESS NOTED OTHERWISE

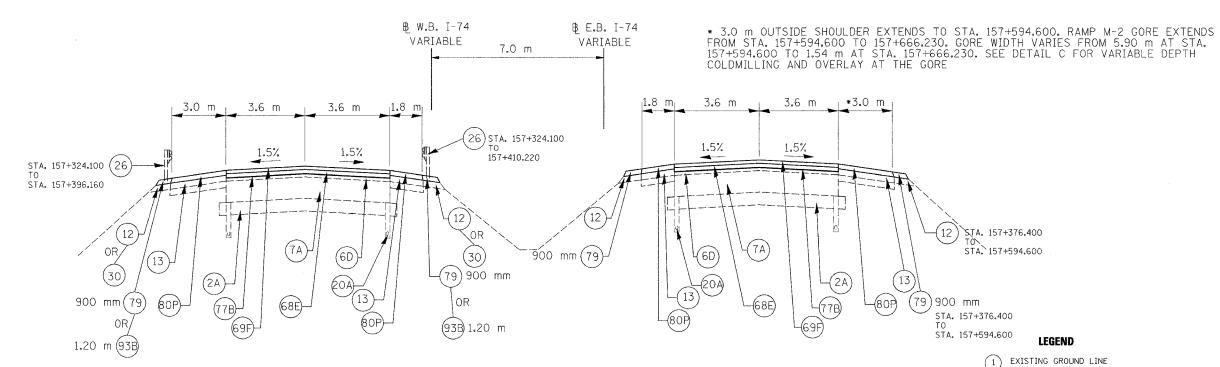
- 1 EXISTING GROUND LINE
- (2A) EX SUB-BASE GRANULAR MATERIAL 150MM
- (6D) EX BITUMINOUS RESURFACING 115MM
- (7A) EX PCC PAVEMENT 250MM
- (12) EX AGGREGATE SHOULDERS
- (13) EX BITUMINOUS SHOULDERS
- (20A) EX PIPE UNDERDRAINS 100MM
- (26) EX GUARDRAIL
- (30) EX GUARDRAIL AGGREGATE EROSION CONTROL
- PR POLYMERIZED BITUMINOUS CONCRETE BINDER COURSE, SUPERPAVE IL 19.0 N90
- 699 PR POLYMERIZED BITUMINOUS CONCRETE SURFACE COURSE, SUPERPAVE MIX E N90
- (77B) PR BITUMINOUS SURFACE REMOVAL, 40 MM
- * (770) PR BIT. SURFACE REMOVAL (VARIABLE DEPTH)
- (79) PR AGGREGATE SHOULDERS, TYPE B
- (OF) PR BITUMINOUS SHOULDERS
- (93B) PR GUARDRAIL AGGREGATE EROSION CONTROL

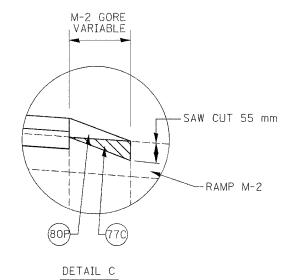
REVISIONS										
NAME	DATE	ILLLI	1012	DEPA	ARIN	1EN I	OF	TRANSP	ORTATIO	Ν
	~~~~~									
			I-	74	RES	URF	FAC	ING		
			тν	יסזמ	Α1	CE	стт	ONS		
			1 1	FIC	AL	SE		ONS		
								RAWN BY	CEM	
	***********	DATE	11/18/	04				HECKED BY	CEM	
		DATE		• .				HECKED DI	CEM	

T	F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
Π.	_74_	<u>*</u>	_TAZEWELL_	1366	1346
	STA.		TO STA.		
F	ED, RO	DAD DIST. NO. 4	ILLINOIS FED.	AID PROJ	ECT

* (90-11)R-2:90(13,14,14-1)R-1

3





F.A.I. ROUTE 74 MAINLINE (W.B. I-74) TYPICAL SECTION 7 STA. 157+376.400 TO 157+666.230

BUTT JOINT SPECIAL EXTENDS FROM STA. 157+639.830 TO 157+666.230

#### NOTES

- 1. BITUMINOUS SURFACE REMOVAL SHALL INCLUDE REMOVAL OF EXISTING AREA CRACK CONTROL AT THE BASE OF THE EXISTING SURFACE COURSE
- 2. MATCH EXISTING BITUMINOUS AND AGGREGATE SHOULDER SLOPES ON INSIDE AND OUTSIDE SHOULDERS AND GORES UNLESS NOTED OTHERWISE

(13) EX BITUMINOUS SHOULDERS
(204) EX PIPE UNDERDRAINS 100MM

(7A) EX PCC PAVEMENT 250MM

(12) EX AGGREGATE SHOULDERS

26 EX GUARDRAIL
30 EX GUARDRAIL AGGREGATE EROSION CONTROL

(2A)

68E PR POLYMERIZED BITUMINOUS CONCRETE BINDER COURSE, SUPERPAVE IL 19.0 N90

EX SUB-BASE GRANULAR MATERIAL 150MM

(6D) EX BITUMINOUS RESURFACING 115MM

- (69F) PR POLYMERIZED BITUMINOUS CONCRETE SURFACE COURSE, SUPERPAVE MIX E N90
- (77B) PR BITUMINOUS SURFACE REMOVAL, 40 MM
- (770) PR BIT. SURFACE REMOVAL (VARIABLE DEPTH)
- (79) PR AGGREGATE SHOULDERS, TYPE B
- (OF) PR BITUMINOUS SHOULDERS
- (93B) PR GUARDRAIL AGGREGATE EROSION CONTROL

REVISIONS	5			
NAME	DATE	ILLINOIS DEPARTM	ENI OF	TRANSPORTATION
		I-74 RES TYPICAL		
				DRAWN BY CEM
		DATE 11/29/04		CHECKED BY CEM

F.A.I. SECTION COUNTY TOTAL SHEET RTE. TOTAL SHEET SHOOT SHEETS NO. TAZEWELL SHEETS NO

#### TABULATION OF RESURFACING QUANTITIES

	TOTAL AREA	BITUMINOUS SURFACE	SURFACE	BITUMINOUS MATERIALS	AGGREGATE MATERIALS	BIT CONC BINDER CSE	BIT CONC SURF CSE		BITUMI			SHOU	REGATE LDERS
LOCATION	MAINLINE +	REMOVAL	REMOVAL	PRIME	PRIME	SUPERPAVE	SUPERPAVE		SHOUL	DERS		TYI	PE B
	SHOULDERS	40MM	VAR DEPTH	COAT	COAT	57MM	38MM	INSIDE	CROSSOVER	GORE	OUTSIDE	INSIDE	OUTSIDE
	SQ M	SQ M	SQ M	M TON	M TON	M TON	M TON	M TON	MTON	M TON	M TON	M TON	M TON
EASTBOUND I-74													
STA. 154 + 780.000 TO 155 + 150.000	4445	2515.2	276.0	1.62	8.89	368.96	277.30	46.14			145.91	32.22	33.09
STA. 155 + 150.000 TO 155 + 500.000	4032	2562.0		1.49	8.06	349.02	232.68	55.21			138.02	44.23	14.25
STA. 155 + 500.000 TO 155 + 850.000	4032	2562.0	·	1.49	8.06	349.02	232.68	55 <b>.</b> 21			138.02	44.23	44.23
STA. 155 + 850.000 TO 156 + 200.000	4032	2562.0		1.49	8.06	349.02	232.68	55.21			138.02	34.44	35.38
STA. 156 + 200.000 TO 156 + 550.000	4130	2562.0		1.54	8.26	384.08	232.68	55 <b>.</b> 21	12.86		138.02	44.23	44.23
STA. 156 + 550.000 TO 156 + 796.000	2914	1800.7	:	1.07	5.83	245.31	163.54	49.37			97.01	31.08	31.08
STA. 156 + 796.000 TO 156 + 917.640	1813	1229.0		0.69	3.63	167.43	111.62	28.79			47.98	15.37	15.37
STA. 156 + 917.640 TO 157 + 252.600	3828	2451.9		1.42	7.66	334.02	222.68	79.25			101.58	38.10	30.05
STA. 157 + 252.600 TO 157 + 376.400	1500		1500.5	0.71	3.00	123.45	82.30	29.29			48.82	6.61	6.61
STA. 157 + 376.400 TO 157 + 666.230	3284	1928.1		1.22	6.57	289.01	192.67	68.58			84.23	36.62	27.57
WESTBOUND													
STA. 154 + 952.000 TO 155 + 150.000	2292	1256.1		0.85	4.58	197.45	131,63	32.65			78.08	4.78	25.02
STA. 155 + 150.000 TO 155 + 500.000	4032	2562.0		1,49	8.06	349.02	232,68	55.21			138.02	44.23	5,60
STA. 155 + 500.000 TO 155 + 850.000	4032	2562.0		1.49	8.06	349.02	232.68	55.21			138.02	44.23	44.23
STA. 155 + 850.000 TO 156 + 200.000	4032	2562.0		1.49	8.06	349.02	232.68	55.21			138.02	35.91	44.23
STA. 156 + 200.000 TO 156 + 550.000	4032	2562.0		1.49	8.06	349.02	232.68	55.21			138.02	44.23	44.23
STA. 156 + 550.000 TO 156 + 636.119	992	630.4		0.37	1.98	85.88	57.25	13.58			33.97	10.88	10.88
STA. 156 + 636.119 TO 156 + 895.000	3718	2491.1		1.42	7.44	339.36	226.24	59.20			102.08	32.71	32.71
STA. 156 + 895.000 TO 157 + 252.600	3974	2617.6	158.0	1.50	7.95	356.59	237.73	84.61		····	93.70	45.19	29.69
STA. 157 + 252.600 TO 157 + 376.400	1500		1500.5	0.71	3.00	123.45	82.30	29.29			48.82	7.12	7.12
STA. 157 + 376.400 TO 157 + 666.230	3513	1928.1		1.27	7.03	289.01	192.67	68.58			114.28	32.35	34.13
RAMP M-1													
STA. 156 + 917.640 TO 156 + 996.100	924	255.3		0.37	1.85	52.38	34.92			39.96	30.96		9.91
RAMP M-2													
STA. 157 + 594.625 TO 157 + 666.230	190		190.0	0.09	0.38					24.98			
RAMP M-4													
STA. 156 + 895.000 TO 156 + 963.665	701	207.3		0.28	1.40	45.84	30.56			20.77	27.09		8.68
GRAND TOTAL		39,807	3,625	25.6	135.9	5,845	3,905	1,031	13	86	2,159	629	578

Guardrail Aggregate Erosion Control will be used at locations of existing guardrail and proposed Traffic Barrier Terminal, Type 1 Special (Tangent) See Guardrail Aggregate Erosion Control Schedule for locations.

PRIME COAT CONVERSION FACTORS		
	BIT PR COAT	AGG PR COA
SURFACE TYPE	(L/M2)	(KG/M²)
COLD MILLED SURFACES	0.5	2
EXISTING PAVEMENT	0.2	2
NEW BITUMINOUS COURSES	0.1	1
1L = 0.00095 METRIC TON		
BITUMINOUS & AGGREGATE CONVERSION	N FACTORS	
SURFACE TYPE		1
BIT. SURF. COURSES	2.39 kg / mm²m	1
ALL OTHER BITUMINOUS	2.39 kg / mm ² m	1
AGGREGATE SHOULDERS	2.43 m ton / m ³	

DEVICTORE	
REVISIONS	ILLINOIS DEPARTMENT OF TRANSPORTATION
NAME DATE	ILLINOIS DEPARTMENT OF TRANSFORTATION
	SCHEDULE OF QUANTITIES
-	
	RESURFACING QUANTITIES
	DRAWN BY CEM
	DRAWN BI CEN
	DATE 12/08/04 CHECKED BY CEM

BIT SURFACE REMOVAL - BU	TT JOINT	(SPECIAL)	
Location		SQ. M	
Eastbourd I-74			
Sta. 154+780,000 to 154+806.	400	272.45	
Sta. 157+639&30 to 157+6662	230	240.77	
  Westbourd I-74			
Sta. 154+952000 to 154+9784	100	319.97	
Sta. 157+639830 to 157+6662	230	319.97	
Ramp M-1			
Sta. 156+969.700 to 156+9961	100	208.56	
Ramp M-4			
Sta. 156+937265 to 156+963£	665	208.56	
TOTAL		1570.28	
	SAY	1571	

RAISED REFLECTIVE PAVEME	NT MARKER REMOVA
Location	
Eastbourd I-74	
Sta. 154+780,000 to 157+6662	230
Westbourd I-74	
Sta. 154+952.000 to 157+6662	230
TOTAL	
DATEED DEEL FOTTVE DAVENE	TAT MADKEDS
RAISED REFLECTIVE PAVEME	
Location	Each
Eastbourd I-74	

Location	Line	100 mm	Line 150 mm	Line	Line 300 m	
	Yellow	White	Skip Dash	Solid	Skip Dash	Chevrons
Eastbound I-74			1			
Sta. 154+780.000 to 157+6	66.230 2886.2	2886.2	721.6			
Sta. 156+901.000 to 156+9	96.000			190.0		49.6
Sta. 156+797.000 to 156+9	01.000				26.1	
Westbound I-74						
sta. 154+780.000 to 157+6	66.230 2714.3	2714.3	678.6			
Sta. 156+894.000 to 157+0	17.000			246.0		
Sta. 156+636.000 to 156+8	94.000				64.6	
	5600.5	5600.5	1400.2	436.0	90.7	49.6
SA	Y 11	,201	1400	527		50

TEMPORARY PAVEMENT MARKING QUANTITIES

Location

Eastbound I-74

		Pro-	68201				
	F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEET SHEETS NO.			
68201	_74_	*	_IAZEWELL	1366/348			
	STA.		TO STA.				
	FED. RO	AD DIST. NO	ILLINOIS FED. AID PROJECT				
		*(90-11)R-2;90(1	3,14,14-1)R-1	<del>,</del>			

10

TOTAL	226.04
Ramp M-4 Sta.156+959865 to 156+963665	30.02
Sta. 156+992300 to 156+996100	30.02
Ramp M-1	
Sta. 157+662430 to 157+666230	46.06
Sta. 154+952,000 to 154+955,800	46.06
Westbourd I-74	
Sta. 157+662430 to 157+666230	34.66
Sta. 154+780,000 to 154+783,800	39.22
Eastbourd I-74	1
Location	SQ. M
TEMPORARY RAMPS	

RAISED REFLECTIVE PAVEMENT MAR	KERS
Location	Each
Eastbourd I-74	
Sta. 154+780,000 to 157+666230	118
Westbound I-74	
Sta. 154+952D00 to 157+666230	111
TOTAL	229

CLASS B PATCH TYPE II, 375MN	Л				SAW CUTS	DOWEL BARS
	No. Of	L(M)	W(M)	Total	Total	38MM
Location	Patches			SQ.M	Meter	Each
Eastbourd I-74						
Sta. 154+780.000 to 157+666230	70	1.82	3.66	466.28	1023.40	1400
	4	2.44	3.66	35.72	63.44	80
	4	3.05	3.66	44.65	68.32	80
	2	3.66	3.66	26.79	36.60	40
Westbourd I-74				ŀ		
Sta. 154+952D00 to 157+666230	73	1.82	3.66	486.27	1067.26	1460
	4	2.44	3.66	35.72	63.44	80
	2	3.66	3.66	26.79	36.60	40
TOTAL	159	······································	1	1122.23	2359.06	3180
	***************************************	SAY		1122	2359	3180

Each

111

229

Eastbound I-74						1	bound I-74	-
Location	Ski	p Dash	(M) Diagonal	s (M)	Meter		IER TERMINAL	, TYPE
SHORT TERM PAVEM	ENT MARKING					1 1	VE AND RE-	
	SAY	11	1,201	140	00	527		]
		5600.5	5600.5	140		436.0	90.7	
sta. 154+780.000 t Sta. 156+894.000 t Sta. 156+636.000 t	o 157+017 <b>.</b> 000		2714.3	678	3.6	246.0	64.6	
Sta. 154+780.000 † Sta. 156+901.000 † Sta. 156+797.000 † Westbound I-74	o 156+996.000		2886.2	72:	1.6	190.0	26.1	
Edg (Dodila I 14		i :	1	l				l

White

Line 100 mm

Yellow

Line 150 mm

Skip Dash

Line 200 mm

Skip Dash

Solid

SHORT TERM PAVEMENT MARK	ING		
Location	Skip Dash (M	I) Diagonals (M)	Meter
Eastbourd I-74			
Sta. 154+780,000 to 157+6662	230 1154.5	311.2	1465.7
Westbound I-74			
Sta. 154+952D00 to 157+6662	30 1085.7	297.4	1383.1
TOTAL			2848.8
*Assume 4 applications total	for skip dash	SAY	2849

REMOVE AND RE-ERECT TRAFFIC	
BARRIER TERMINAL TYPE I SPECIAL	Each
Eastbound I-74	Lucii
STA. 151+041900RT	1
STA. 155+974230RT	1
Westbound I-74	
STA. 155+455650LT	1
STA. 157+396160LT	1
TOTAL	4

Assume 2 applications for diagonals on outside shoulders both EB and WB Assume inside shoulder on EB/WB pavement from sta. 156+662,000 to sta. 157+666230 require 2 applications of diagonals

REMOVE AND RE-ERECT STEEL PLATE BEA	M GUARDRA	VIL.
Location		Meter
Eastbound I-74		
Sta. 155+041,900RT to 155+387250RT		345.35
Sta. 155+974230RT to 156+044220RT		69.99
Sta. 155+969200LT to 156+035260LT		66.06
Sta. 157+230520LT to 157+308950LT		78.43
Sta. 157+245300RT to 157+308.950RT		63.65
Westbourd I-74		
Sta. 154+989800LT to 155+455650LT		465.85
Sta. 156+035400RT to 156+089850RT		54.45
Sta. 157+324100LT to 157+396160LT		72.06
S+a. 157+324100RT +o 157+398820RT		74.72
TOTAL		1290.56
	SAY	1291

CLASS B PATCHES	(SPECIAL	)	EXPANSIO	TMIOL N	75 MM
Location		SQ.M			METER
Eastbound I-74				.,	
Sta. 156+662828		17.86			7.32
Sta. 157+039256		17.86			7.32
Sta. 157+565,036		17.86			7.32
Westbound I-74					
Sta. 156+662828		17.86			7.32
Sta. 157+074308		17.86			7.32
Sta. 157+501.028		17.86			7.32
TOTAL		107.16			43.92
Thirt is the second of the sec	SAY	107.2		SAY	44

_ocation	Sk	ip Dash	(M) Diagonals	(M) SQ.
astbourd I-74 5ta. 154+780,000 to 157+66 Westbourd		288.6	155.6	44
5†a. 154+952000 †o 157+66	6230	271.4	148.8	42
Assume removal of surfa	ice doc	lication	only SAY	8

ocation	Each
	Eduli
Eastbound I-74	
STA. 155+954D00LT	1
STA. 157+215.320LT	1
STA. 157+230100LT	1
Westbound I-74	
STA. 156+105.050RT	1
STA. 157+414020RT	1
TOTAL	5

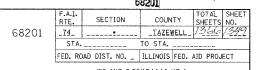
GUARDRA1L REMOVAL	
Location	Meter
Eastbound I-74	
STA. 155+957&00LT TO 155+969200LT	11.40
STA. 157+219120LT TO 157+230520LT	11.40
STA. 157+233900RT TO 157+245300RT	11.40
Westbound I-74	
STA. 156+089850RT TO 156+101250RT	11.40
STA. 157+398820RT TO 157+410220RT	11.40
TOTAL	57

GUARDRAIL AGGREGATE EROSION CONTROL						
Location	M Ton					
Eastbound I-74						
Sta. 155+041900RT to 155+38	37250RT	57.07				
Sta. 155+974230RT to 156+0	44220RT	11.57				
Sta. 155+957800LT to 156+0	35260LT	12.80				
Sta. 157+219120LT to 157+30	8.950LT	14.84				
Sta. 157+233900RT to 157+3	08.950RT	12.40				
Westbourd I-74						
Sta. 154+989800LT to 155+49	55.650LT	76.98				
Sta. 156+035.400RT to 156+16	01250RT	10.88				
Sta. 157+324100LT to 157+39	6160LT	11.91				
Sta. 157+324100RT to 157+41	14.23					
TOTAL	222,68					
	SAY	223				

TRAFFIC BARRIER TERMINAL. TY 1 SPL (Tangent)				
Location	Each			
Eastbourd I-74				
STA. 155+954000LT TO 155+969200LT	1			
STA. 157+215.320LT TO 157+230.520LT	1			
STA. 157+230100RT TO 157+245300RT	1			
Westbound I-74				
STA. 156+089850RT TO 156+105050RT	1			
STA. 157+398820RT TO 157+414020RT	1			
TOTAL	5			

NOTE: SEE DE	TATE FOR	TRAFFIC	COUNTERS	LISTNG TEE	PAITNIAI	
FACILITY FOR						LOOPS

REVISIONS		T. I. T. O.C. DED LOTHER OF TO MICROSTATION	
NAME	DATE	ILLINOIS DEPARTMENT OF TRANSPORTATION	V
		SCHEDULE OF QUANTITIES	
	-		
		DRAWN BY CEM	
		DATE 12/13/04 CHECKED BY CEM	
			_



END PLAN SET *4

*99-IDR-29903.Is.I4-IR-1

11

STA. 157+666,230
END OF IMPROVEMENT
PLAN SET *4

## POST STAGE 3C CONSTRUCTION

STA. 154+780.000 (WB)

1. BITUMINOUS SURFACE REMOVAL OF EB, WB MAINLINE ROADWAY, PAVEMENT PATCHING, BITUMINOUS OVERLAY OF MAINLINE PAVEMENT AND SHOULDERS, AGGREGATE SHOULDERS TY B, RAISED REFLECTIVE PAVEMENT MARKERS, POLYUREA PAVEMENT MARKING, GUARDRAIL ADJUSTMENT.

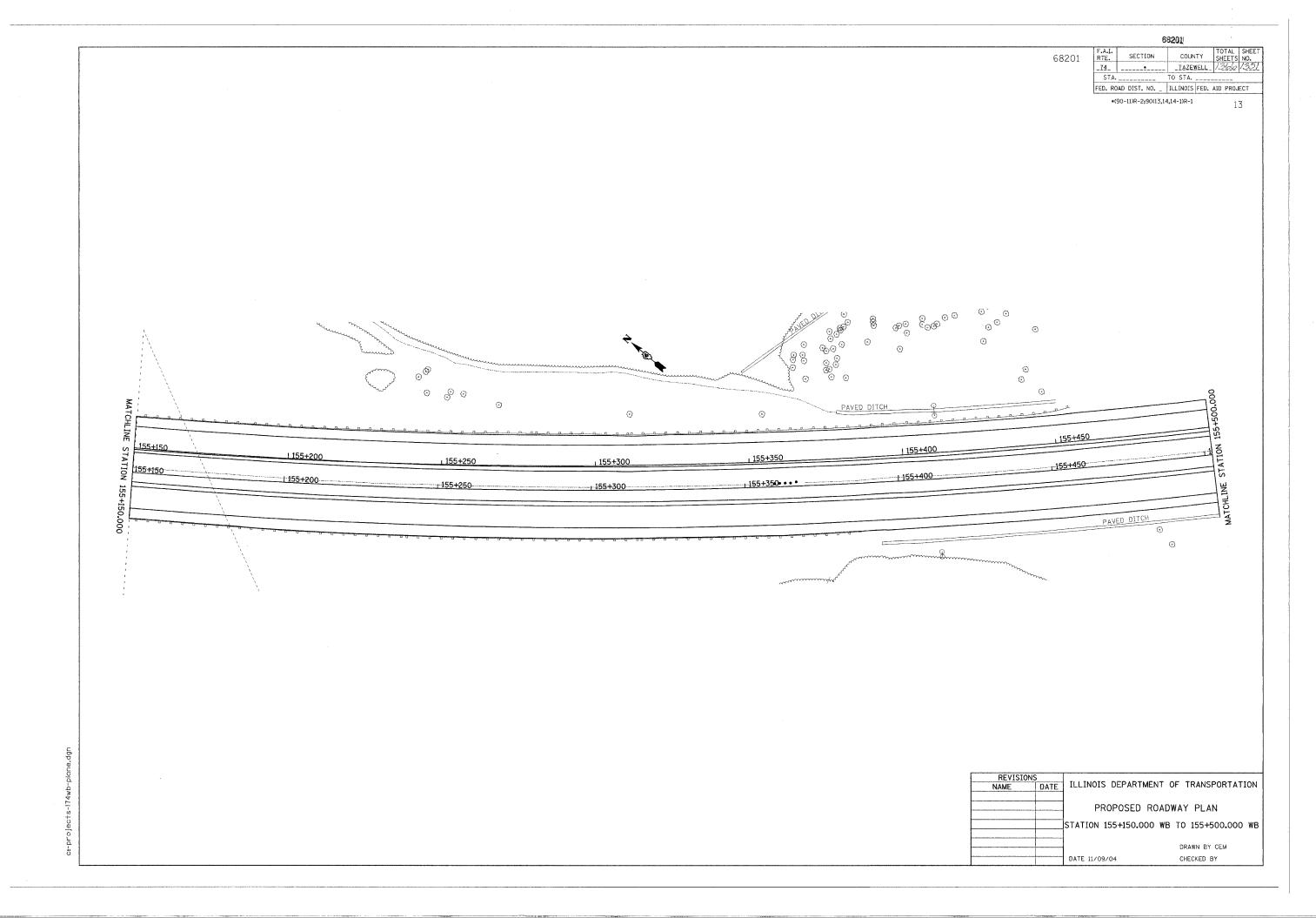
POST STAGE 3C
MAINTENANCE OF TRAFFIC

ALL LANES ON EB WB I-74 ARE OPEN TO TRAFFIC ALONG THIS SECTION. INTERMITTENT LANE AND SHOULDER CLOSINGS ARE REQUIRED TO COMPLETE THE CONSTRUCTION. SEE WORKING RESTRICTIONS SPECIAL PROVISION FOR LANE AND SHOULDER CLOSING RESTRICTIONS.

- 1. MAINTENANCE OF TRAFFIC FOR CONSTRUCTION ACTIVITIES SHALL BE IN ACCORDANCE WITH THE APPLICABLE IDOT HIGHWAY STANDARDS 701101, 701400, 701401, 701406, 701411, 701421, 701422, 701426, AND 702001. ALL TRAFFIC CONTROL ITEMS WILL BE PAID FOR AS TRAFFIC CONTROL AND PROTECTION (EXPRESSWAYS). SEE SPECIAL PROVISION.
- 2. FOR TEMPORARY INFORMATIONAL SIGNING DURING CONSTRUCTION SEE THE CONCEPTUAL TEMPORARY SIGNING PLAN FOR STAGE 3C IN PLAN SET #2

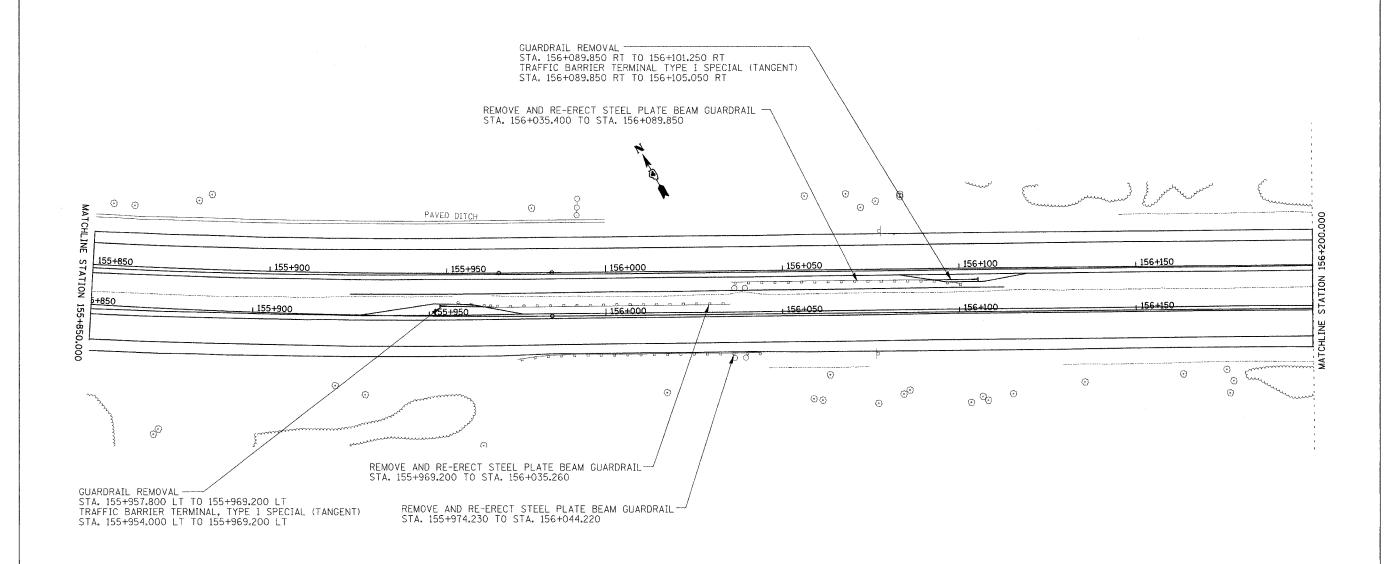
REVISIO	NS			
NAME	DATE	ILLINOIS DEPARTMENT OF TRANSPORTATION		
-		MAINTENANCE OF TRAFFIC		
		FAI ROUTE 74		
		SCHEMATIC		
		POST STAGE 3C		
			DRAWN BY CEM	
		DATE 11/30/04	CHECKED BY CEM	

68201 STA._____ TO STA. FED. ROAD DIST. NO. _ ILLINOIS FED. AID PROJECT *(90-11)R-2;90(13,14,14-1)R-1 REMOVE AND RE-ERECT STEEL PLATE BEAM GUARDRAIL -STA. 154+989.800 TO STA. 155+455.650 STA. 154+952.000 TO 154+978.400 — BUTT JOINT (SPECIAL) ଅ ତ 0 BEGIN WB OVERLAY AT 154+952 1154+800 154+950 154+900 1154+800 0 BITUMINOUS SURFACE REMOVAL (VARIABLE DEPTH) STA. 154+780.000 TO 154+895.000 MEDIAN SHOULDER ONLY (SEE TYPICAL SECTION) STA, 154+780.000 TO 154+806.400 BUTT JOINT (SPECIAL) ⊙ [⊙] REMOVE AND RE-ERECT STEEL PLATE BEAM GUARDRAIL — STA. 155+041.900 TO STA. 155+387.250 BEGIN EB OVERLAY AT 154+780 ILLINOIS DEPARTMENT OF TRANSPORTATION PROPOSED ROADWAY PLAN STATION 154+780.000 WB TO 155+150.000 WB DRAWN BY CEM DATE 11/09/04 CHECKED BY



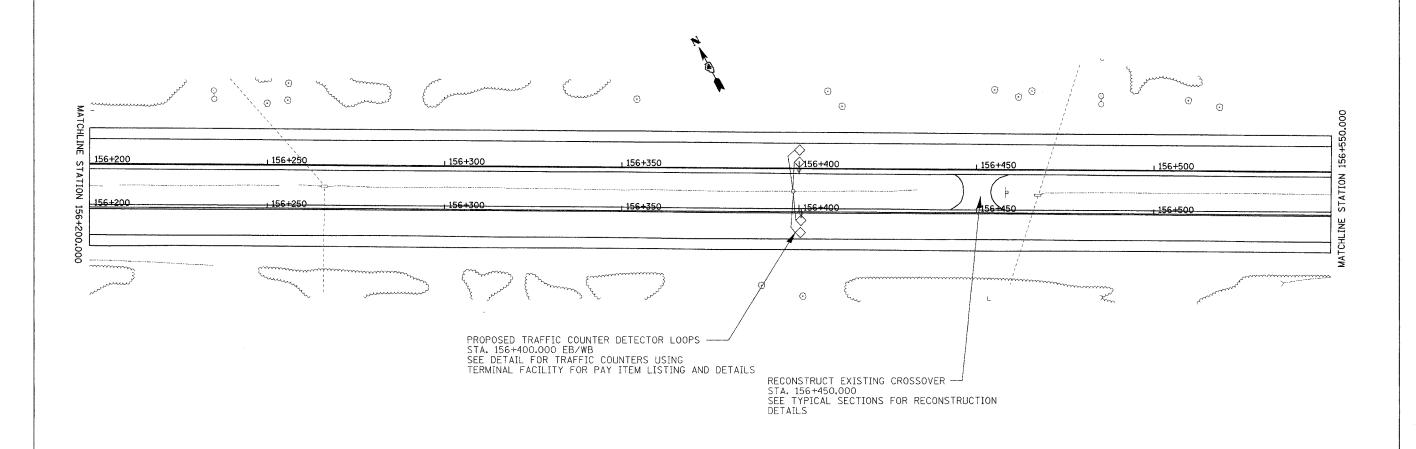
COUNTY TOTAL SHEET NO.

_TAZEWELL /366 /350 SECTION 68201 STA. TO STA. FED. ROAD DIST. NO. _ ILLINOIS FED. AID PROJECT *(90-11)R-2;90(13,14,14-1)R-1 14 - - - - - -© _© 155+500 155+550 155+600 1155+600 PAVED DITCH DATE | ILLINOIS DEPARTMENT OF TRANSPORTATION PROPOSED ROADWAY PLAN STATION 155+500.000 WB TO 155+850.000 WB DRAWN BY CEM CHECKED BY DATE 11/09/04



REVISIONS			
NAME	DATE	ILLINOIS DEPARTMENT O	F TRANSPORTATION
		PROPOSED ROADW	WAY PLAN
		STATION 155+850.000 WB	TO 156+200.000 WB
	-		
			DRAWN BY CEM
	+	DATE 11/09/04	CHECKED BY

objects-174wb-up



NAME DATE

ILLINOIS DEPARTMENT OF TRANSPORTATION

PROPOSED ROADWAY PLAN

STATION 156+200.000 WB TO 156+550.000 WB

DRAWN BY CEM

DATE 11/09/04 CHECKED BY

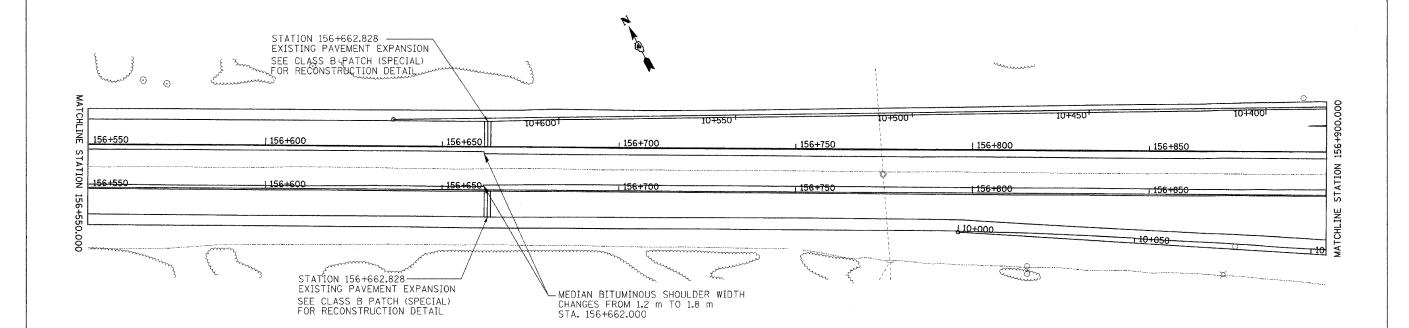
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68201

F.A.I. SECTION COUNTY TOTAL SHEET SHOOL SHEETS NO. TAZEWELL STA. TO STA. FED. ROAD DIST. NO. ILLINOIS FED. AID PROJECT

*(90-11)R-2;90(13,14,14-1)R-1

17



RE	REVISIONS							
NAN	ΛE	DATE	ILLINOIS	DEPARTMEN	DEPARTMENT OF		TRANSPORTATION	
			PRO	OPOSED RO	DADW	ΑY	PLAN	
			STATION 15	6+550.000	WB 1	то	156+900.000	WB
<b> </b>								
						DRA	WN BY CEM	
			DATE 11/09/	04		CHE	CKED BY	

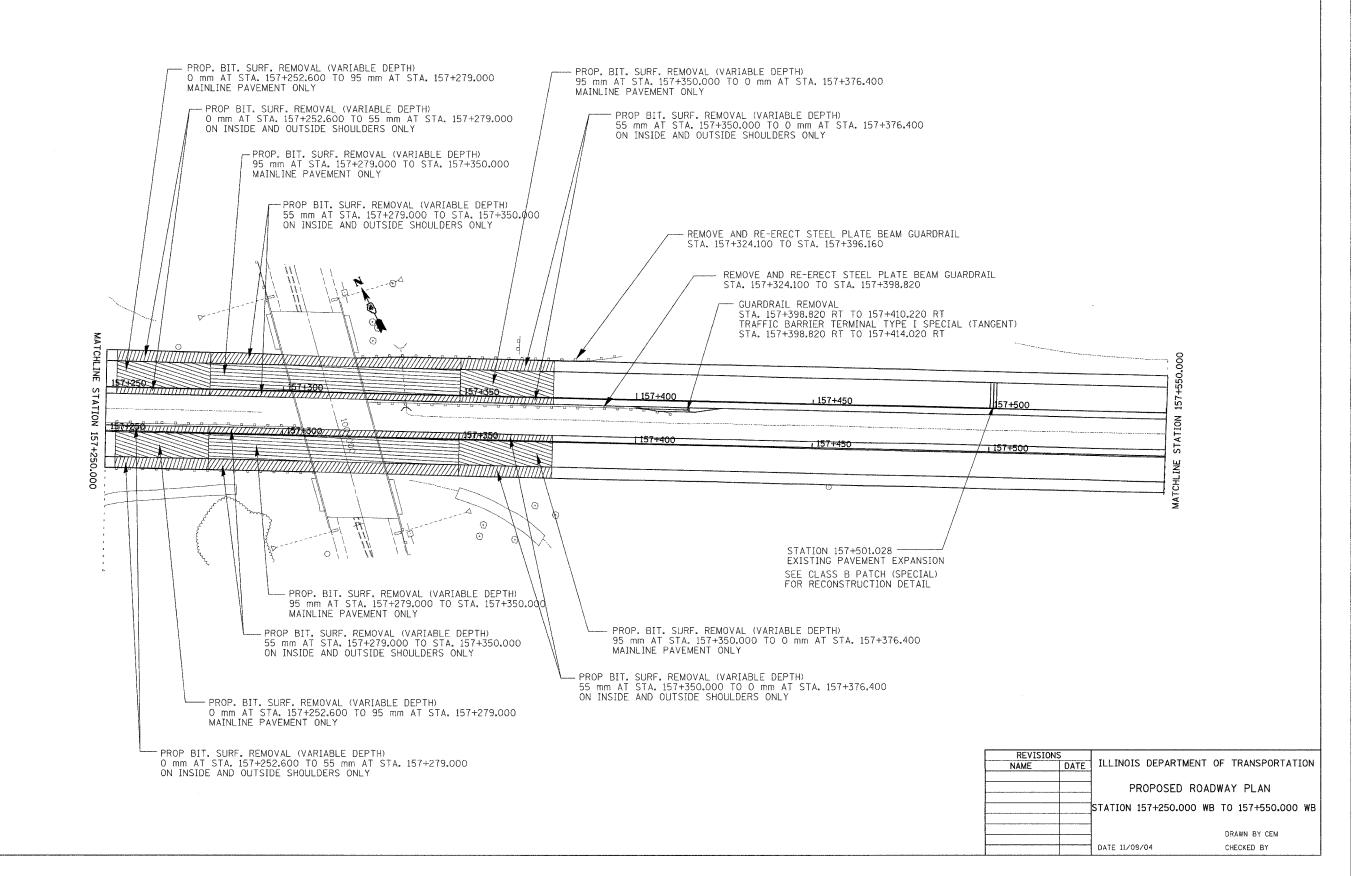
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F.A.I. RTE. SECTION COUNTY 68201 COUNTY SHEETS NO. _74_ | _____| STA.____ TO STA. FED. ROAD DIST. NO. _ ILLINOIS FED. AID PROJECT *(90-11)R-2;90(13,14,14-1)R-1 18 REMOVE AND RE-ERECT STEEL PLATE BEAM GUARDRAIL—STA. 157+230.520 TO STA. 157+308.950 GUARDRAIL REMOVAL
STA. 157+219.120 LT TO 157+230.520 LT
TRAFFIC BARRIER TERMINAL TYPE I SPECIAL (TANGENT)
STA. 157+215.320 LT TO 157+230.520 LT BITUMINOUS SURFACE REMOVAL (VARIABLE DEPTH) — STA. 156+937.265 TO 157+017.660 GORE AREA ONLY (SEE TYPICAL SECTION) STA. 156+937.265 TO 156+963.665-BUTT JOINT (SPECIAL) -STATION 157+074.308
EXISTING PAVEMENT EXPANSION END RAMP OVERLAY STA. 156+963.665 SEE CLASS B PATCH (SPECIAL) FOR RECONSTRUCTION DETAIL 156+900 156+950 157+000 157+050 157+100 157+150 1157+200 157+150 1157+200 GUARDRAIL REMOVAL
STA. 157+233,900 RT TO 157+245.300 RT
TRAFFIC BARRIER TERMINAL TYPE I SPECIAL (TANGENT)
STA. 157+230.100 RT TO 157+245.300 RT STA. 156+969.700 TO 156+996.100 BUTT JOINT (SPECIAL) END RAMP OVERLAY STA. 156+996.100 STATION 157+039,256 , EXISTING PAVEMENT EXPANSION REMOVE AND RE-ERECT STEEL PLATE BEAM GUARDRAIL-STA. 157+245.300 TO STA. 157+308.950 SEE CLASS B PATCH (SPECIAL) FOR RECONSTRUCTION DETAIL ILLINOIS DEPARTMENT OF TRANSPORTATION PROPOSED ROADWAY PLAN STATION 156+900.000 WB TO 157+250.000 WB DRAWN BY CEM DATE 11/09/04 CHECKED BY

8201	F.A.I. RTE.	SECTION	COUN	TY	TOTAL SHEETS	SHEE NO.
	_74_		_IAZE	YELL.	13/06	1357
	STA.		TO STA.			
	FED. RO	DAD DIST. NO.	ILLINOIS	FED.	AID PROJ	ECT

*(90-11)R-2;90(13,14,14-1)R-1

19

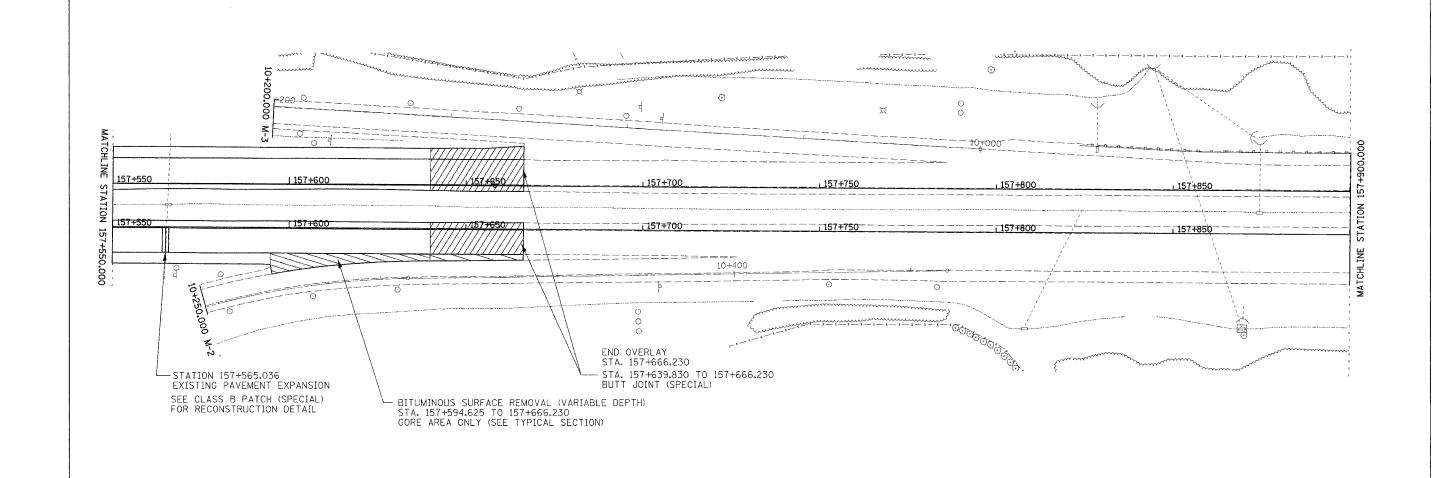


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			00202		
 68201	F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	_74_	*	_IAZEWELL_	1366	1359
	STA		TO STA		
	FED. RC	AD DIST. NO	ILLINOIS FED.	AID PROJ	ECT

*(90-11)R-2;90(13,14,14-1)R-1

20



REVISIONS
NAME DATE

ILLINOIS DEPARTMENT OF TRANSPORTATION

PROPOSED ROADWAY PLAN

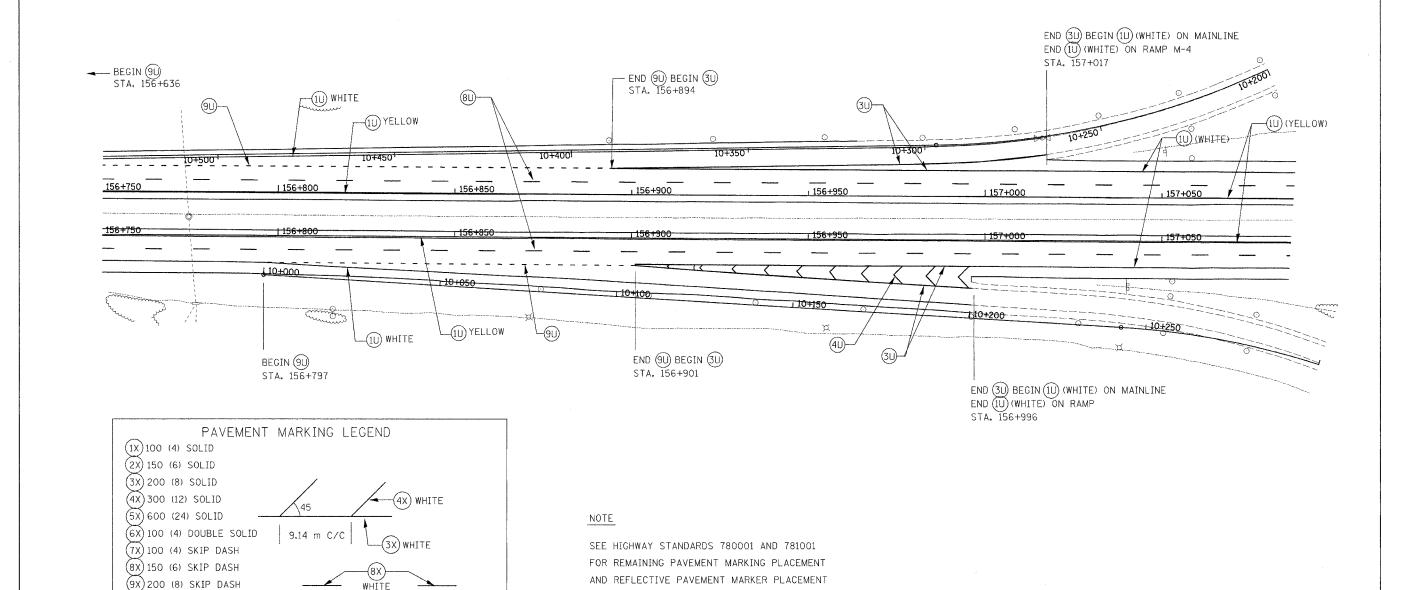
STATION 157+550.000 WB TO 157+900.000 WB

DRAWN BY CEM
CHECKED BY

9000-4mp-174mp-900

68201 SECTION COUNTY T4 - TAZEWELL 200 255
STA. TO STA.
FED. ROAD DIST. NO. _ ILLINOIS FED. AID PROJECT

*(90-11)R-2;90(13,14,14-1)R-1



REVISION	S		
NAME	DATE	ILLINOIS DEPARTMENT	OF TRANSPORTATION
		PROPOSED PAVEMENT	MADEING DI AN
		PROPUSED PAVEMENT	MARKING PLAN
		AT RAMP M-1 AN	D RAMP M-4
	<del>                                     </del>		DRAWN BY CEM
		DATE 12/09/04	CHECKED BY CEM

(10X) 200 (8) DOTTED (11X) LETTERS AND SYMBOLS

T = THERMOPLASTIC

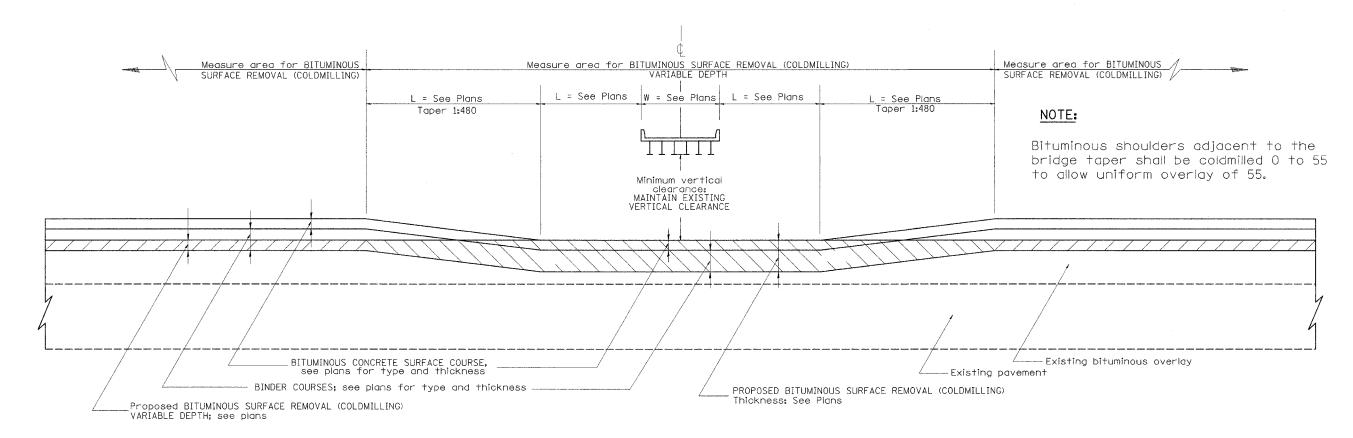
E = EPOXY P = PAINT

U = POLYUREA

SECTION COUNTY SHEETS NO. _74_ _____ IAZEWELL 68201 STA. TO STA. __ FED. ROAD DIST. NO. _ ILLINOIS FED. AID PROJECT

*(90-11)R-2;90(13,14,14-1)R-1

22

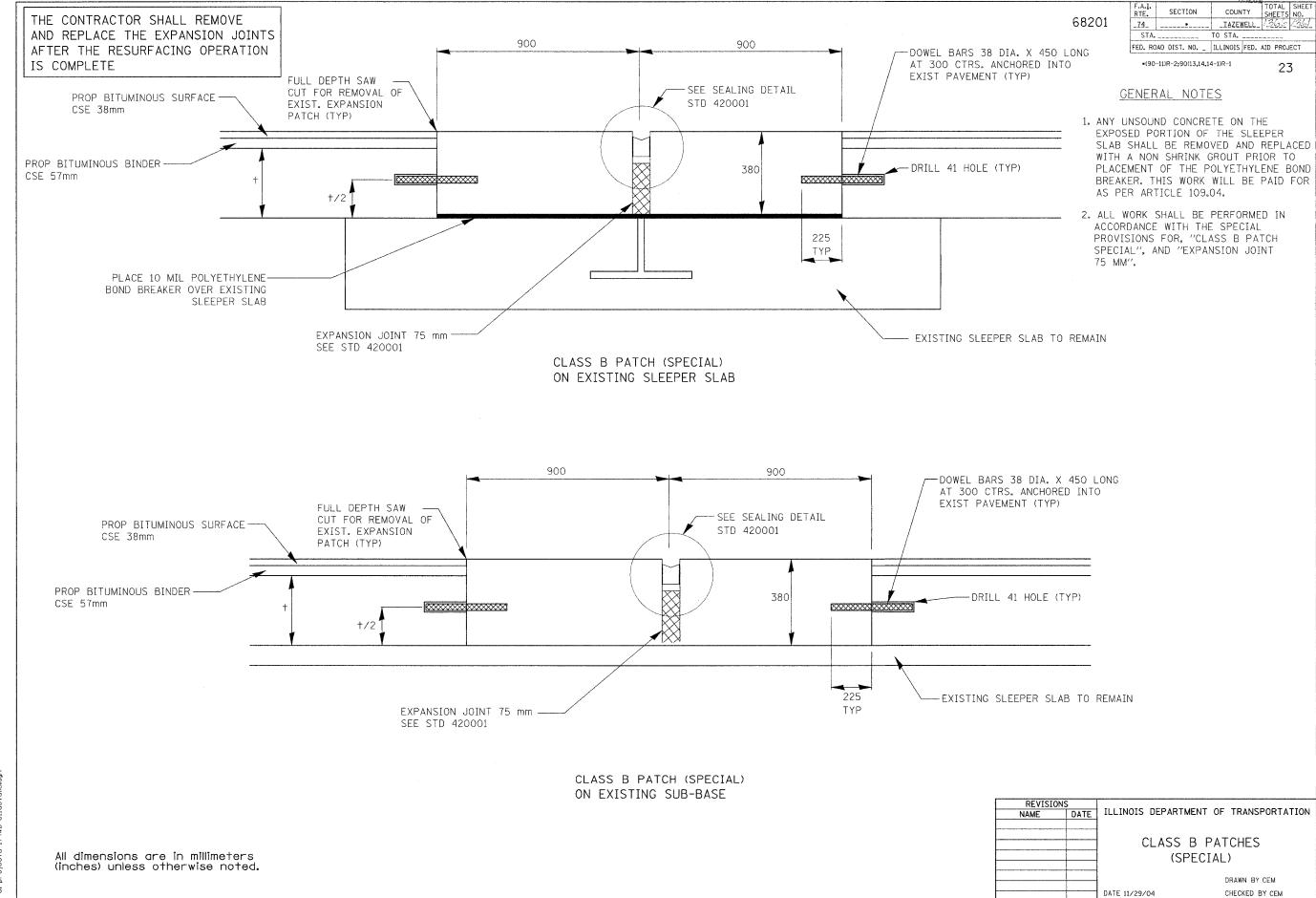


WITH BITUMINOUS SURFACE REMOVAL (COLD MILLING)

All dimensions are in millimeters (inches) unless otherwise noted.

REVISIONS	5			
NAME	DATE	ILLINOIS DEPARTME	NI OF	TRANSPORTATION
		PAVEMENT UNDER ST SPECIAL	RUC	TURES
				DRAWN BY CEM
		DATE 11 (20 (04		CHECKED DA CEM

DATE 11/29/04 CHECKED BY CEM



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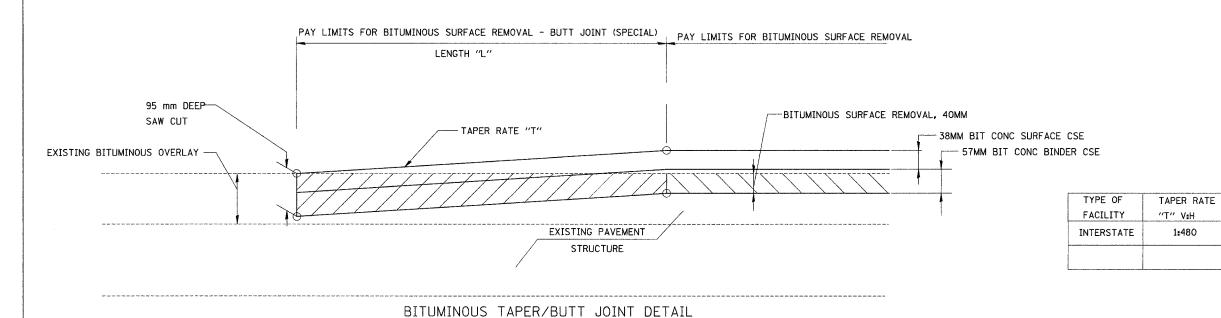
SECTION COUNTY _IAZEWELL_ 4363 _74_______ 68201 STA._____ TO STA.____ FED. ROAD DIST. NO. 4 ILLINOIS FED. AID PROJECT

*(90-11)R-2;90(13,14,14-1)R-1

LENGTH "L"

METERS

26.4



#### GENERAL NOTES

- 1. The work shall be done in accordance with Article 406.18 and the Special Provision for Butt Joints.
- 2. The pavement surface to be removed may be either bituminous or P.C. concrete. The work shall be performed in accordance with Article 440.03.
- 3. The saw cut joints shall be primed just prior to the placing of bituminous material. The work will be in accordance with the applicable portions of Article 406.06.

		·····	
REVISIO	NS		
NAME	DATE	ILLINOIS DEPAR	TMENT OF TRANSPORTATION
		BITUMINOUS	SURFACE REMOVAL
		- BUTT	JOINT (SPECIAL)
	-		DETAIL
	-		DRAWN BY CEM
	+	DATE 6/22/04	CHECKED BY CEM

*(90-11)R-2;90(13,14,14-1)R-1

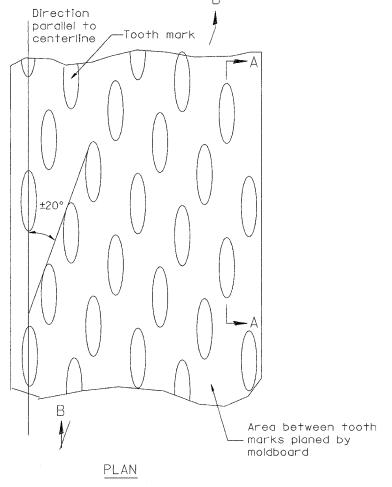
DISTRICT CADD STANDARD

BITUMINOUS SURFACE REMOVAL (COLD MILLING)

SCALE: NOT DRAWN TO SCALE DRAWN BY CADD

CADD STD NO. 440001-D4

^{1)R-1} 25



±0.5(0.02)

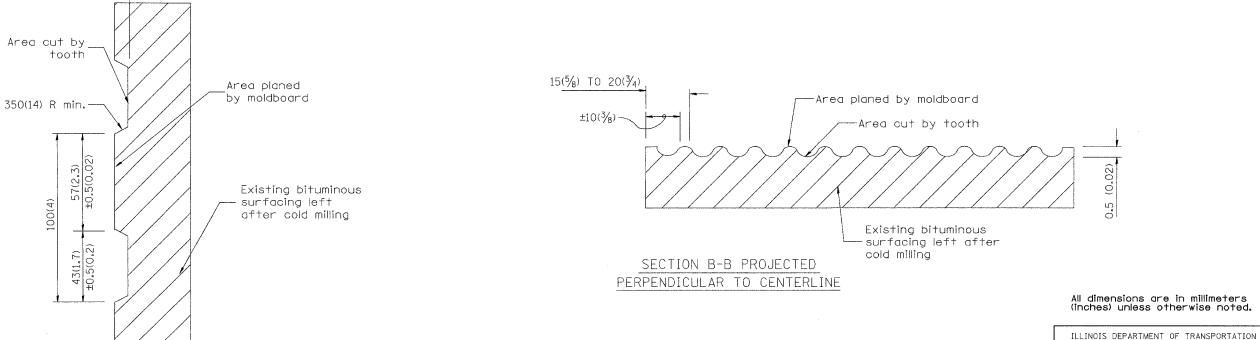
SECTION A-A

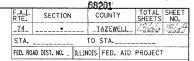
#### General notes:

- 1. Coldmilling shall consist of two processes:
  Cutting with carbide teeth mounted on a rotating drum, and planing with a moldboard mounted immediately behind the cutting drum.
- 2. Other similar patterns will be acceptable if they consist of a smooth, flat, planed surface interspersed with a pattern of discontinuous longitudinal striations.

1- 1-97 RENUM. C-104.01, NEW REVISION BOX 4-20-98 REMOVED MILLING DETAIL FROM STD.

9-08-98 CORRECT NOTE LEADER PLACEMENT





*(90-11)R-2;90(13,14,14-1)R-1

GENERAL NOTES: EROSION CONTROL CURB

- This work shall consist of grading as needed, installing hardware and treated timber boards, furnishing and placing mastic material and incidental bituminous surfacing in front of Steel Plate Beam Guardrail in accordance with Plan Details.
- 2. Timber shall be treated in accordance with Article 1007.12. All preservatives specified in the article will be allowed. Waterborne preservatives "asa" and "cca" shall have a minimum retention of 6.4 kg/m³ (0.40 lbs./cu. ft.)

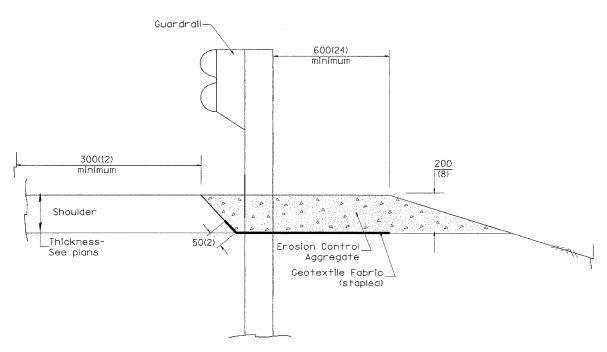
#### GENERAL NOTES: GUARDRAIL AGGREGATE EROSION CONTROL

- 1. This work shall consist of grading as needed, furnishing and installing geotextile fabric and staples, and furnishing, placing and shaping crushed aggregate around and behind Steel Plate Beam Guardrail posts in accordance with Plan Details.
- 2. Before placing the aggregate and the Geotextile Fabric, weeds and grass shall be removed from the area to be covered.
- 3. After the area has been prepared, and in a dry condition, the Geotextile fabric shall be placed with a 300(12) minimum overlap. A knife cut for guardrail post installation is necessary.
- 4. The aggregate shall be deposited, compacted and shaped by either mechanical or hand methods, in a manner reasonably true to line and grade.
- 5. The Contractor shall have the option of placing the guardrail before or after the Geotextile Fabric and Aggregate are in place. If the guardrail is placed after the Geotextile Fabric and Aggregate, then any voids must be filled and the aggregate returned to line and grade.
- 6. Materials shall meet the following requirements:
- A. The crushed aggregate shall be CA1 gradation in accordance with Article 1004.01(c) of the Standard Specifications.
- B. The Geotextile Fabric shall be nonwoven fabric in accordance with Article 1080.02 of the Standard Specifications.

Guardrail-600(24) minimum Treated Timber Curb 600(24) lap into Bridge Approach Curb 190 (7½)  $M12(\frac{1}{2})$  galvanized U-bolts with -nuts and washers Maximum Spacing 3.8m(12'-6") 75(3) (9) Bituminous Shoulder Thickness-50(2)/ Erosion Control See plans Aggregate Geotextile Fabric_

(stapled)

TYPICAL SECTION WITH EROSION CONTROL CURB



TYPICAL SECTION WITHOUT EROSION CONTROL CURB

All dimensions are in millimeters (inches) unless otherwise noted.

ILLINOIS DEPARTMENT OF TRANSPORTATION
DISTRICT CADD STANDARD

DATE LEVISIONS BY 1-1-97 RENUM. C-22.01, NEW REVISION BOX T.P. 3-1-97 CORRECT STD. NUMBERS IN NOTES PG. 2 J.A. 11-3-00 CORRECTION TO NOTES M.A.

GUARDRAIL EROSION CONTROL TREATMENTS

CADD STD NO. 630101-D4(1)
SCALE: NOT DRAWN TO SCALE

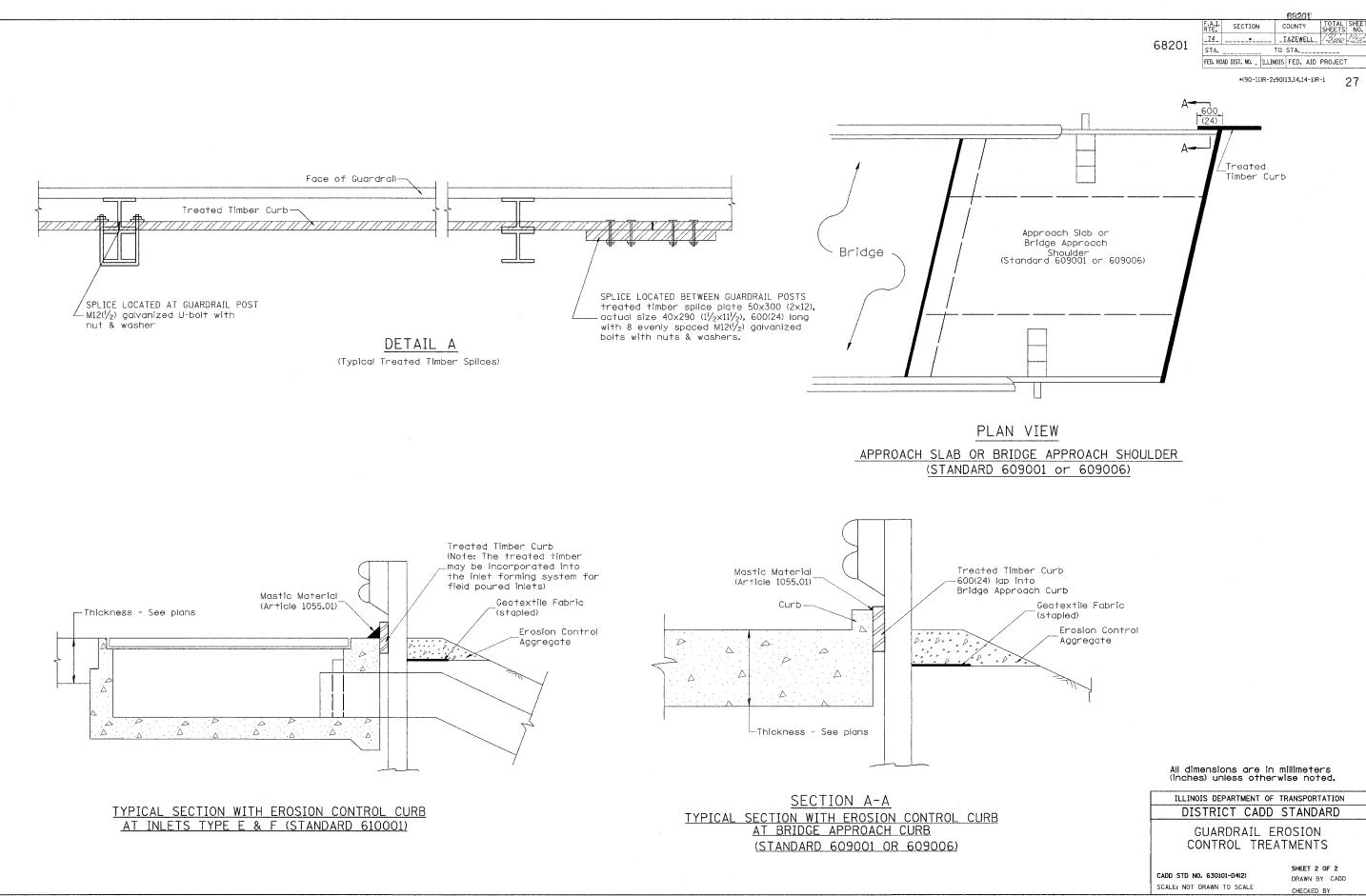
SHEET 1 OF 2 DRAWN BY CADD CHECKED BY

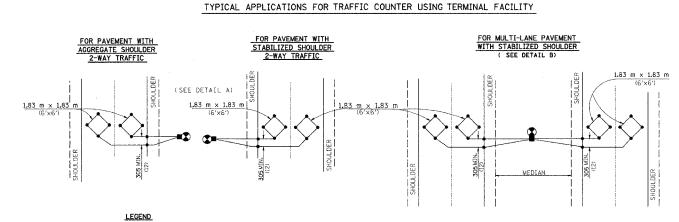
c:\projects\174wb\c1ldeta1ls.dgn

Incidental Bituminous

Surfacina

630101-D4(1)





- 102 x 102 (4 X 4) TREATED WOOD POST
- INDICATES 38 (1/2) HOLE DRILLED AT DETECTOR LOOP CORNER

#### STATION 156+400

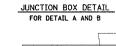
SCHEDULE OF QUANTITIES			
IJEW	QUANTITY	UNIT	
DETECTOR LOOP, SPECIAL	_45. I _28. 2 _33. 6 _23. I	METER METER METER METER	
CONDUIT IN TRENCH, 30 mm DIA., PVC			
ELECTRIC CABLE IN CONDUIT. LEAD-IN, NO.18 3 PAIR			
TRENCH AND BACKFILL FOR ELECTICAL WORK			
TRENCH AND BACKFILL FOR ELECTICAL WORK (SPECIAL)	_ 8. 4_	METER	
TERMINAL FACILITY	1	EACH	
ELECTRIC CABLE IN CONDUIT, LEAD-IN, NO.18 6 PAIR		METER	

#### GENERAL NOTES

- 1. EACH DETECTOR LOOP USED SHALL BE WIRED INDEPENDENTLY TO THE TERMINAL.
- 2. DIAMOND SHAPED LOOPS SHALL BE CENTERED IN THE PAVEMENT LANES.
- 3. EACH 1.83 M X 1.83 M (6' X 6') DETECTOR LOOP SHALL HAVE A MINIMUM OF 4 OR 5 TURNS OF CABLE OR AS DIRECTED BY THE ENGINEER.
  4. DETECTOR LOOPS MAY BE LOCATED AS DIAMONDS IN THE PAVEMENT AS
- DIRECTED BY THE ENGINEER. ALL LOOPS SHALL BE ORIENTED THE SAME DIRECTION.
- THE RESIDENT ENGINEER AND OR CONTRACTOR SHALL NOTIFY THE TRAFFIC STUDIES TECHNICIAN IN PROGRAM DEVELOPMENT AT LEAST ONE WEEK PRIOR TO THE INSTALLATION TO DETERMINE EXACT LOCATION. CONTACT RON HEGWOOD PH * 309-693-5165

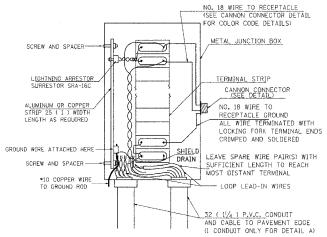
#### _74_ | ____ TAZEWELL 1260 201 68201 DETAIL A STA. TO STA. FED. ROAD DIST. NO. 4 ILLINOIS FED. AID PROJECT TERMINAL FACILITY DETAIL DETAIL B *(90-11)R-2;90(13,14,14-1)R-1 28 102 x 102 (4 X 4) TREATED WOOD POST TERMINAL FACILITY DETAIL 38 (11/2) DIA. HOLE DRILLED 102 X 102 (4 x 4) THROUGH WOOD POST TREATED WOOD POST 102 METAL JUNCTION BOX 27 (11/16) HOLE FOR INSTALLING OR AS DIRECTED CANNON CONNECTOR METAL JUNCTION BOX GROUND LINE CANNON CONNECTOR 32 (11/4) CL AMP 32 (1 1/4) P.V.C. CONDUIT AND CABLE TO PAVEMENT EDGE NO. 10 CONNECTING GROUND WIRE 32 (1½) PVC CONDUIT WITH MULTI-PAIR NO. 18 TWISTED, SHIELDED CABLE NO. 10 CONNECTING GROUND WIRE EXIST. GROUNDLINE EXIST. GROUNDLINE (24) DEP 2.44 m - 16 (8' - 5/8) COPPER JUNCTION 2.44 m - 16 (8' - 5/8) COPPER TO PAVEMENT EDGE -NOTES FOR TERMINAL FACILITY LOCATION(S) GROUND ROD SHALL BE CONNECTED TO THE JUNCTION BOX WITH NO. 10 AWG COPPER WIRE AS SHOWN IN THE JUNCTION BOX DETAIL. POST FOR TERMINAL FACILITY SHALL BE A MINIMUM DISTANCE

#### *600 MM MINIMUM DEPTH



1. ONE LIGHTNING ARRESTOR FOR EACH LOOP.

ENGINEER.



NOTES FOR JUNCTION BOX

NUMBER OF TERMINALS ON TERMINAL STRIP TO BE DETERMINED BY NUMBER OF LOOPS, TERMINAL STRIP SHALL BE CINCH BARRIER TYPE 140 OR EQUIVALENT.

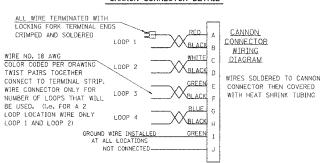
5. THE COST OF INSTALLING THE TERMINAL FACILITY INCLUDES ALL VERTICAL WIRING, BOXES. CONNECTORS, VERTICAL CONDUIT, POST, GROUND ROD, SURRESTORS, AND LABOR, AND SHALL BE PAID FOR AT THE CONTRACT UNIT PRICE EACH FOR TERMINAL FACILITY.

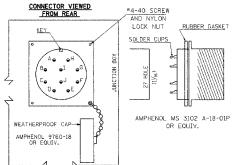
6. THE METAL MOISTURE-PROOF MOUNTING BOX SHALL BE HINGED AND HAVE A KEYED ENTRY.

JUNCTION BOX SHALL BE WEATHER PROOF WITH SIZE DETERMINED BY NUMBER OF COMPONENTS. JUNCTION BOX SHALL BE A MINIMUM 102x152x203 ( 4x6x8 ) METAL HOFFMAN BOX WITH KEY ENTRY OR EQUIVALENT.

4. TERMINAL WITH MORE THAN 4 LOOPS WILL REQUIRE THE USE OF 2 CANNON CONNECTORS WITH LOOPS GROUPED BY DIRECTION OR AS DIRECTED BY THE

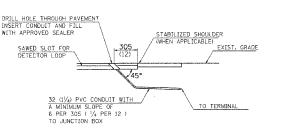
#### CANNON CONNECTOR DETAIL





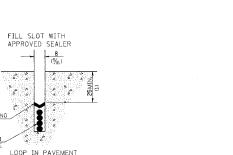
PLASTIC TUBING RETAINER

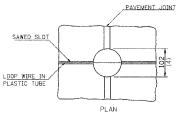
DETECTOR LOOP INSTALLATION

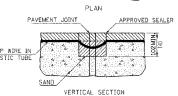


OF ____ FROM EDGE OF ____

#### DETECTOR LOOP LEAD-IN DETAIL







NOTE: LOOP WIRE MUST FOLLOW SAW CUT TO BOTTOM, FORMING SLACK SECTION AT JOINT.

DETECTOR LOOP DETAIL AT PAVEMENT JOINT OR PAVEMENT CRACK

All dimensions are in millimeters (inches) unless otherwise noted.

COUNTY

SECTION

	[	ILLINOIS DEPARTMENT OF TRANSPORTATION
0/11/2	BY	SPECIAL DETAIL SHEET
3-1-97 NEW DETAIL J.	•A•	DETAIL FOR TRACETO COUNTERO
3-21-97 CORRECT REF. TO SI CONC. J.	.A.	DETAIL FOR TRAFFIC COUNTERS
9-10-97 ADD REF. TO METAL BOX E.	т.	LICTUO TEDLITALL ELOTITTY
	₹.Н.	USING TERMINAL FACILITY
	₹.H.	CADD STD, NO. 836002-D4
6-09-00 REMOVE GULFBOX R.	.н.	
		SCALE: NOT DRAWN TO SCALE DRAWN BY CADD
		DATE : AUGUST 19, 1992 CHECKED BY R. TAYLOR