

PROJECT ENGINEER: CHRIS MAUSHAARD (309) 671-3453

DESIGNER: GEORGE ELIAS (309) 671-3460

CONTRACT NO. 68921

FAP 656	FAU 6757	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
IL 29	US 150	*	TAZEWELL	32	1

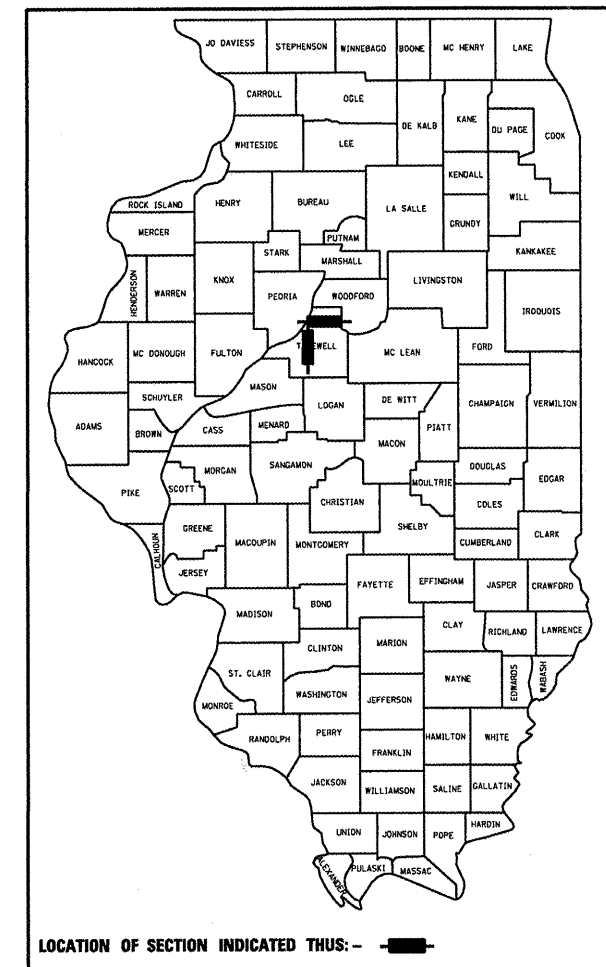
*D-4 STRUCTURE REPAIR 2008

** 32+2-3-31*
D-94-070-07

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION
DIVISION OF HIGHWAYS

**PROPOSED
HIGHWAY PLANS**

FAU 6757 (US 150)/FAP 656 (IL 29)
SECTION: D4 STRUCTURE REPAIR 2008
TAZEWELL COUNTY
C-94-106-07



INDEX OF SHEETS

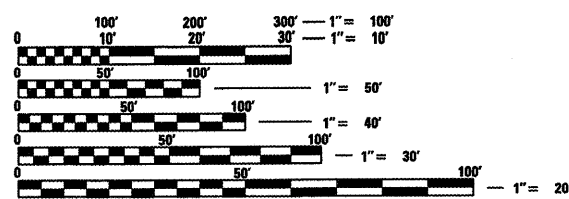
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LIST OF STANDARDS

STATEWIDE	DISTRICT 4
542301-02 631033-03	406101 - D4
542306-02 635006-03	440001 - D4
542311-01 701006-03	635101 - D4
602401-02 701201-03	780001 - D4
602416-01 701306-02	
604001-03 701311-03	
604016-02 701321-10	
630001-08 704001-05	

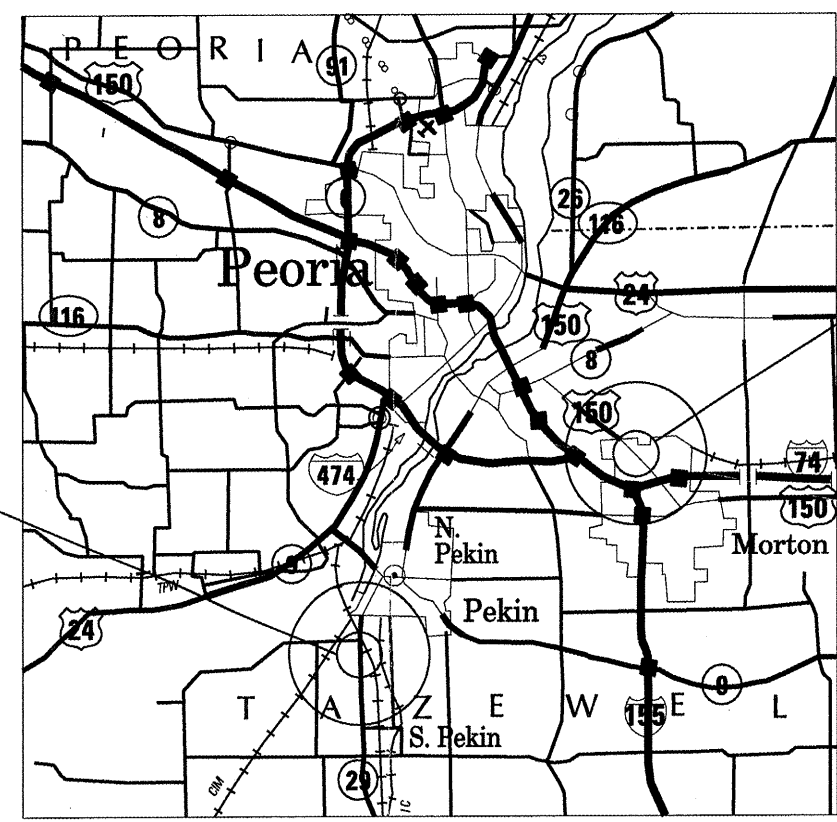
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SCALE INFORMATION



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.

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



LOCATION #1
BOX CULVERT REPLACEMENT
OF S.N.090-2504 ON IL 29
0.4 MILE NORTH OF TR630

LOCATION #2
S.N.090-2503 ON US 150
0.2 MILE EAST OF
VETERANS ROAD IN MORTON

Gross Length of Project = 525'
Net Length of Project = 80'

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION
DIVISION OF HIGHWAYS

SUBMITTED *JAN 29 2009*

March 17, 2009
Charles G. Ingersoll
ENGINEER OF DESIGN AND ENVIRONMENT

March 27, 2009
Christie M. Reed
DIRECTOR OF HIGHWAYS, CHIEF ENGINEER

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

CONTRACT NO. 68921
CATALOG NO. 033555-00D

IL 29 ADT = 6,100
US 150 ADT = 7,000

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FAP 656	FAU 6757	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
IL 29	US 150	*	TAZEWELL	32	2

*D-4 STRUCTURE REPAIR 2008

Commitments

No commitments have been made for this project.

General Notes

ENVIRONMENTAL REVIEWS

Prior to the use of any proposed borrow areas, use areas (temporary access roads, detours, run-arounds, etc.) and/or waste areas, the Contractor shall file the required environmental resource request surveys according to Section 107.22 of the Standard Specifications. These surveys are required in order for the Department to conduct cultural and biological resource surveys for the proposed site.

Prior to any waste materials being removed from the construction site the required environmental resource surveys will need to be obtained and filed by the Contractor. Excess waste products removed from the construction site shall be disposed of as required in Section 202.03 of the Standard Specifications.

Any protruding metal bars shall be removed prior to the disposal of broken concrete at approved disposal sites.

The required environmental resource documentation shall include the following:

- * BDE Form 2289 (Environmental Survey Request)
- * A location map showing the size limits and location of the use area
- * Signed property owner agreement form-D4 P10100
- * Color photographs depicting the use area
- * Borrow Area Entry Agreement form-D4 P10101

Please note that a minimum of two weeks shall be allowed for the District to obtain the required environmental clearances.

UTILITIES - LOCATIONS / INFORMATION ON PLANS

The locations of existing water mains, gas mains, sewers, electric power lines, telephone lines and other utilities as shown on the plans are based on careful field investigation and the best information available, but they are not guaranteed. Unless elevations are shown --- all utility locations shown on the cross sections are based on the approximate depth supplied by the utility company. It shall be the Contractor's responsibility to ascertain their exact location from the utility companies and by field inspection.

ORDERING LENGTH CONFIRMATION - DRAINAGE ITEMS

The Contractor shall consult with the Engineer in regard to the exact length of the box/pipe culverts, storm sewers, and/or pipe drains required prior to ordering these items.

ENGINEERS FIELD OFFICE

Add the following sentence to the end of paragraph 670.02 (i) and 670.04 (e):
All of the telephone lines provided shall have unpublished numbers.

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GENERAL NOTES

DATE

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IL 29	US 150	*	TAZEWELL	32	3

*D-4 STRUCTURE REPAIR 2008

PAVEMENT STATIONING NUMBERS & PLACEMENT

The Contractor shall provide labor and materials required to imprint pavement station numbers in the finished surface of the pavement and/or overlay. The numbers shall be approximately 3/4 inch (20mm) wide, 5 inches (125 mm) high and 5/8 inch (15 mm) deep.

The pavement station numbers shall be installed as specified herein:

Interval - 200 feet (English stationing) or 100 meters (metric stationing)

Bottom of Numbers - 6 inches (150 mm) from the inside edge of the pavement marking

Location:

- * 2,3, & 5 Lane Pavements - right edge of pavement in direction of increasing stations
- * Multi-Lane Divided Roadways - outside edge of pavement in both directions
- * Ramps - along baseline edge of pavement

Position - stations shall be placed so they can be read from the adjacent shoulder

Format - English (Metric) pavement stations shall use this format "XXX (XX+X00)" where X represents the pavement station

This work will not be paid for separately, but will be considered included in the cost of the associated pavement and/or overlay pay items.

BUTT JOINT CUTTING TIME RESTRICTION

Butt joints shall not be milled more than three (3) days prior to placement of the bituminous surface course.

EXISTING DRAINAGE PIPES CONNECTED TO NEW STRUCTURES

In accordance with Section 602 of the Standard Specifications, the connecting of existing drain tiles, pipe culverts, or storm sewers to the proposed drainage system structures will not be paid for separately but shall be considered as included in the pay items provided.

HOT-MIX ASPHALT MIXTURE REQUIREMENTS

Mixture Use(s):	Bit Base Course, 9"	Surface Course, 1 1/2"
RAP % (Max)**:	25%	15%
AC/PC:	64-22	64-22
Design Air Voids:	4.0% @ N=50	4.0% @ N=50
Mixture Composition: (Gradation Mixture)	IL 19.0	IL 9.5 or 12.5
Friction Aggregate	N.A.	Mix D

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

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GENERAL NOTES

DATE

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SUMMARY OF QUANTITIES

URBAN
100% STATE

CODE NO.	PAY ITEM	UNIT	TOTAL QUANTITY	IL 29 Y007	US 150 SFTY-2A
20400800	FURNISHED EXCAVATION	CY YD	166	111	55
20800150	TRENCH BACKFILL <i>AND</i>	CY YD	42	42	
21101615	TOPSOIL FURNISH <i>PLACE, 4"</i>	SQ YD	260	82	178
28000400	PERIMETER EROSION BARRIER	FOOT	500	150	350
28100807	STONE DUMPED RIPRAP, CLASS A4	TON	22	22	
28200200	FILTER FABRIC	SQ YD	33	33	
35102200	AGGREGATE BASE COURSE, TYPE B 10"	SQ YD	106	106	
35501320	HOT - MIX ASPHALT BASE COURSE, 9"	SQ YD	106	106	
40600215	POLYMERIZED BITUMINOUS MATERIALS (PRIME COAT)	TON	0.44	0.44	
40600300	AGGREGATE (PRIME COAT)	TON	1.4	1.4	
40600982	HOT - MIX ASPHALT SURFACE REMOVAL - BUTT JOINT	SQ YD	227	227	
40600990	TEMPORARY RAMP	SQ YD	38	38	
40603335	HOT - MIX ASPHALT SURFACE COURSE, MIX "D", N50	TON	40	40	
44000100	PAVEMENT REMOVAL	SQ YD	106	106	
44000155	HOT - MIX ASPHALT SURFACE REMOVAL, 1/2"	SQ YD	128	128	
50100300	REMOVAL OF EXISTING STRUCTURES NO. 1	EACH	1	1	
50104400	CONCRETE HEADWALL REMOVAL	EACH	2		2
54201279	PIPE CULVERTS, TYPE 2 RCCP 24"	FOOT	4	4	
54201285	PIPE CULVERTS, TYPE 2 RCCP 30"	FOOT	45		45
54209907	PIPE CULVERTS, TYPE 2, REINFORCED CONCRETE <i>ELLIPTICAL, EQUIVALENT</i> ROUND-SIZE 42"	FOOT	8	8	
54209913	PIPE CULVERTS, TYPE 2, REINFORCED CONCRETE <i>ELLIPTICAL, EQUIVALENT</i> ROUND-SIZE 48"	FOOT	48	48	
54213669	PRECAST REINFORCED <i>FLARED END SECTIONS 24" CONCRETE</i>	EACH	1	1	
54213675	PRECAST REINFORCED <i>FLARED END SECTIONS 30" CONCRETE</i>	EACH	2		2
54214533	PRECAST REINFORCED CONCRETE <i>FLARED END SECTIONS, EQUIVALENT ROUND-SIZE 48"</i>	EACH	1	1	
54247130	GRATING FOR CONCRETE FLARED END SECTION 24"	EACH	1	1	
54247150	GRATING FOR CONCRETE FLARED END SECTION 30"	EACH	2		2
54248180	GRATING FOR CONCRETE FLARED END SECTION <i>EQUIVALENT</i> ROUND-SIZE 48"	EACH	1	1	
60220200	MANHOLES, TYPE A, 4'-DIAMETER <i>EQUIVALENT</i>	EACH	1	1	
60246805	MEDIAN INLET (604106)	EACH	2		2
60404400	FRAMES AND GRATES, TYPE 4	EACH	1	1	

SUMMARY OF QUANTITIES

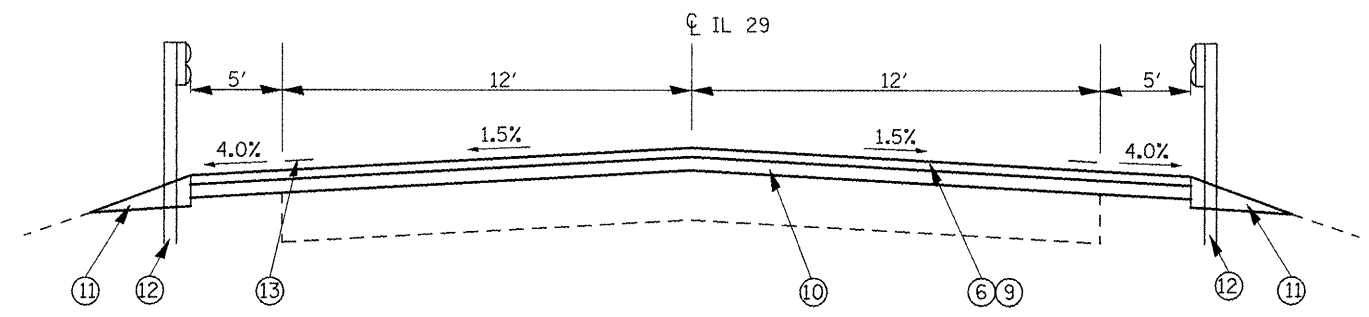
URBAN
100% STATE

CODE NO.	PAY ITEM	UNIT	TOTAL QUANTITY	IL 29 Y007	US 150 SFTY-2A
* 63000002	STEEL PLATE BEAM GUARD RAIL, TYPE A, 6.75 FOOT POSTS	FOOT	513	513	
* 63100089	TRAFFIC BARRIER TERMINAL, TYPE 6B	EACH	1	1	
* 63100167	TRAFFIC BARRIER TERMINAL, TYPE 1 (SPECIAL) TANGENT	EACH	2	2	
63200310	GUARDRAIL REMOVAL	FOOT	609	481	128
67000400	ENGINEER'S FIELD OFFICE, TYPE A	CAL MO	2	1	1
67100100	MOBILIZATION	L SUM	1	1	
70100450	TRAFFIC CONTROL AND PROTECTION, STANDARD 701201	L SUM	1		1
70100460	TRAFFIC CONTROL AND PROTECTION, STANDARD 701306	L SUM	1	1	
70106500	TEMPORARY BRIDGE TRAFFIC SIGNALS	EACH	1	1	
70106700	TEMPORARY RUMBLE STRIP	EACH	6	6	
70300100	SHORT-TERM PAVEMENT MARKING	FOOT	160	160	
70300200	TEMPORARY PAVEMENT MARKING	FOOT	2136	2136	
70301000	WORK ZONE PAVEMENT MARKING REMOVAL	SQ FT	705	705	
70400100	TEMPORARY CONCRETE BARRIER	FOOT	320	320	
70400200	RELOCATE TEMPORARY CONCRETE BARRIER	FOOT	320	320	
* 78001110	PAINT PAVEMENT MARKING - LINE 4"	FOOT	2136	2136	
* 78200410	GUARDRAIL MARKERS, TYPE A	EACH	12	12	
* 78201000	TERMINAL MARKER - DIRECT APPLIED	EACH	2	2	
78300100	PAVEMENT MARKING REMOVAL	SQ FT	683	683	
X0301512	GUARDRAIL AGGREGATE EROSION CONTROL	TON	29	29	
X0323988	TEMPORARY SOIL RETENTION SYSTEM	SQ FT	96	96	
Z0030270	IMPACT ATTENUATORS, TEMPORARY (FULLY REDIRECTIVE, WIDE), TEST LEVEL 3	EACH	1	1	
Z0030330	IMPACT ATTENUATORS, RELOCATE (FULLY REDIRECTIVE), TEST LEVEL 3	EACH	1	1	
X6020088	MANHOLES, TYPE A, 8'-DIAMETER, TYPE 1 FRAME, CLOSED LID	EACH	1	1	

* SPECIALTY ITEM

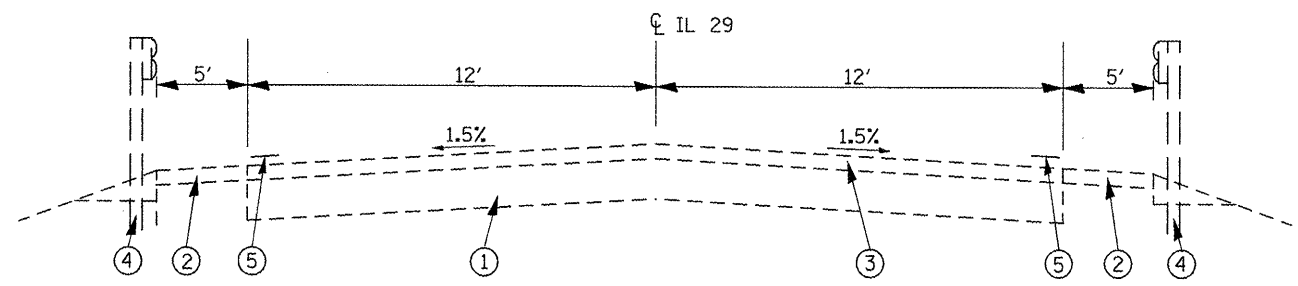
FAP 656	FAU 6757	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
IL 29	US 150	*	TAZEWELL	32	9

*D-4 STRUCTURE REPAIR 2008



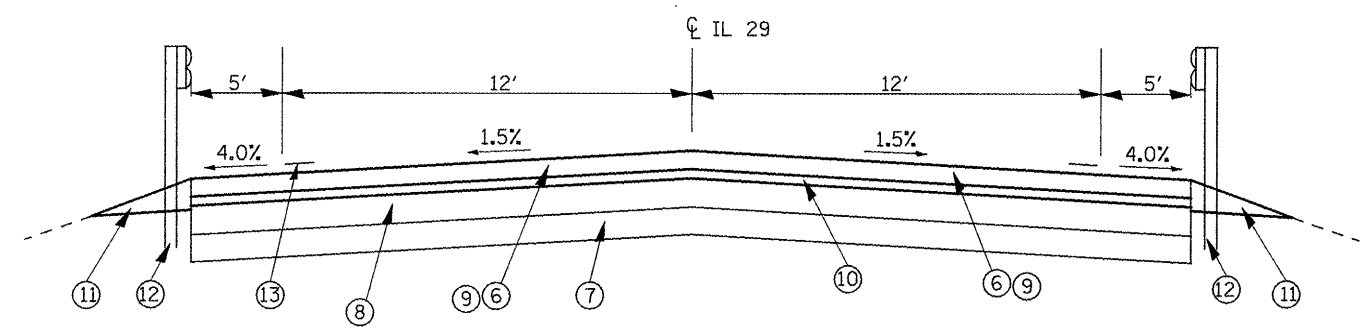
LT STA 1398+53.93 TO 1398+83.93
 LT STA 1399+11.73 TO 1399+75.73
 RT STA 1398+53.93 TO 1399+17.73
 RT STA 1399+45.73 TO 1399+75.73

PROPOSED TYPICAL SECTION



LT & RT STA 1398+53.93 TO 1399+75.73

EXISTING TYPICAL SECTION



LT STA 1398+83.93 TO 1399+11.73
 RT STA 1399+17.73 TO 1399+45.73

PROPOSED TYPICAL SECTION

LEGEND

- ① EXISTING CONCRETE PAVEMENT
- ② EXISTING HMA SHOULDERS
- ③ EXISTING HMA OVERLAY
- ④ EXISTING GUARDRAIL
- ⑤ EXISTING PAINT PAVEMENT MARKING

- ⑥ PROPOSED HMA SURFACE REMOVAL, 1 1/2"
- ⑦ PROPOSED AGGREGATE BASE COURSE, 10"
- ⑧ PROPOSED HMA BASE COURSE, 9"
- ⑨ PROPOSED HMA SURFACE COURSE, MIX "D", N50, 1 1/2"
- ⑩ PROPOSED P LEV BINDER (MM) N50, 3/4"
- ⑪ PROPOSED GUARDRAIL AGGREGATE EROSION CONTROL, 3"
- ⑫ PROPOSED SPBGR, TYPE A
- ⑬ PROPOSED PAINT PAVEMENT MARKING

* TYPICAL SECTIONS NOT DRAWN TO SCALE *

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ILLINOIS DEPARTMENT OF TRANSPORTATION

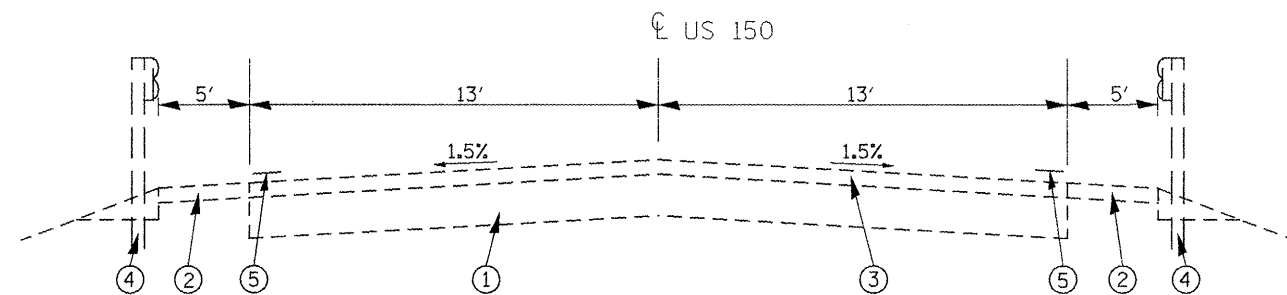
TYPICAL SECTIONS

IL 29

DATE _____ CHECKED BY _____

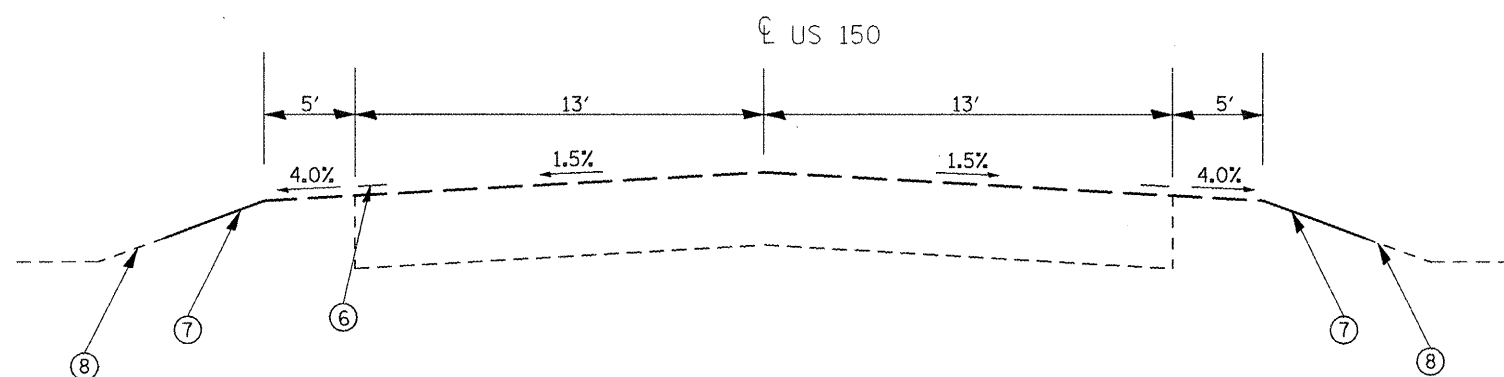
FAP 656	FAU 6757	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
IL 29	US 150	*	TAZEWELL	32	10

*D-4 STRUCTURE REPAIR 2008



LT & RT STA 322+91 TO 323+55

EXISTING TYPICAL SECTION



LT & RT STA 322+91 TO 323+55

PROPOSED TYPICAL SECTION

LEGEND

- ① EXISTING CONCRETE PAVEMENT
- ② EXISTING AGG SHOULDERS
- ③ EXISTING HMA OVERLAY
- ④ EXISTING GUARDRAIL
- ⑤ EXISITING PAINT PAVEMENT MARKING

- ⑥ PROPOSED PAINT PAVEMENT MARKING
- ⑦ PROPOSED FURNISHED EXCAVATION
- ⑧ PROPOSED TOPSOIL FURNISH & PLACE 4"

* TYPICAL SECTIONS NOT DRAWN TO SCALE *

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**TYPICAL SECTIONS
US 150**

DATE

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FAP 656	FAU 6757	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
IL 29	US 150	*	TAZEWELL	32	11

*D-4 STRUCTURE REPAIR 2008

RAISED REFLT PAVT MRK REMV	
LOCATION	EACH
STA.1398+42 TO 1398+80	2
TOTAL	2

REMV EXIST STRUCTURE # 1	
LOCATION	EACH
STA. 1399+00	1
TOTAL	1

ENG.FIELD OFFICE, TYPE A	
LOCATION	CALMO
JOBSITE	2
TOTAL	2

TEMP.SOIL RETENTION SYSTEM	
LOCATION	SQ FT
STA. 1399+20	96
TOTAL	96

LOCATION	TEMP.CONC.	RELOCATE TEMP
	BARRIER (FT)	CONC.BARRIER (FT)
STAGE I	320	
STAGE II		320
TOTAL	320	320

MOBILIZATION	
LOCATION	L.SUM
JOBSITE	1
TOTAL	1

TEMP.BRIDGE TRAF.SIGNALS	
LOCATION	EACH
JOBSITE-IL 29	1
TOTAL	1

TRAFFIC CONTROL STANDARDS		
STANDARD	EACH	L.SUM
701321	1	
701201		1
701306		1

LOCATION	TEMP.IMPACT ATTN. TEST LEV. 3 (EACH)	RELOCATE TEMP ATTN. (EACH)
STAGE I	1	
STAGE II		1
TOTAL	1	1

TOPSOIL FURNISH & PLACE, 4"	
LOCATION	SQ YD
LT.STA. 1398+67 TO 1399+15	82
TOTAL	82

RIP RAP		
LOCATION	FILTER FABRIC FOR USE WITH RIP RAP.	STONE DUMPED RIPRAP CLASS A4
	(SQ YD)	(TON)
LT STA. 1398+76 TO 1399+08	33.33	22.2
TOTAL	33.33	22.2

TEMPORARY RUMBLE STRIPS	
LOCATION	EACH
RT. STA. 1379+30	1
RT. STA. 1384+30	1
RT. STA. 1389+30	1
LT. STA. 1410+10	1
LT. STA. 1415+10	1
LT. STA. 1420+10	1
TOTAL	6

GUARDRAIL AGG. EROSION CONTROL	
LOCATION	TON
RT STA. 1396+53 TO 1399+70	13.8
LT STA. 1398+35 TO 1399+99	11.2
TOTAL	25

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**SCHEDULE
OF QUANTITIES
IL 29**

DATE

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FAP 656	FAU 6757	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
IL 29	US 150	*	TAZEWELL	32	12

*D-4 STRUCTURE REPAIR 2008

PAVEMENT MARKING					
LOCATION	PAINT PAVT MARK LINE 4"	PAVEMENT MARKING REMOVAL	SHORT TERM PAVT MARKNG	TEMPORARY PAVT MARKING TYPE A	WORK ZONE PAVT MARKNG REMOVAL
	(FT)	(SQ FT)	(FT)	(FT)	(SQ FT)
(WT) LT&RT.STA. 1396+75 TO 1402+09	1068		48	106.8	352.5
(YL) LT&RT.STA. 1396+75 TO 1402+09	1068		112	106.8	352.5
STAGE I		515.4			
STAGE II		167.1			
TOTAL	2136	682.5	160	213.6	705

TEMPORARY RAMP	
LOCATION	SQ YD
LT & RT STA. 1398+54 TO 1398+59	18.89
LT & RT STA. 1399+71 TO 1399+76	18.89
TOTAL	37.8

TEMPERORY SEEDING/PERMANENT SEEDING, MULCH METHOD 1 & FERTILIZING							
LOCATION	L	W	SEEDING CLASS 2A 200 LB / ACRE		FERTILIZER 270 LB / ACRE		
			(ACRE)	(LB)	NITROG (LB)	PHOSPH (LB)	POTASS (LB)
US 150 (MORTON)	FT	FT					
RT STA. 322+91 TO 323+55	75	30	0.052	10.33	6.97	6.97	6.97
LT STA. 322+91 TO 323+55	75	30	0.052	10.33	6.97	6.97	6.97
TOTAL			0.104	20.660	13.940	13.940	13.940
***IL 29 (PEKIN)							
LT STA.1398+35 TO 1399+99	40	30	0.028	5.51			
TOTAL			0.028	5.51	7.44	7.44	7.44
GRAND TOTAL			0.132	26.170	21.380	21.380	21.380

FURNISHED EXCAVATION	
LOCATION	CU YD
LT STA. 1398+67 TO 1399+15	111
TOTAL	111

All costs for above work is included in Furnished Excavation pay item and shall comply with article 250.07 of the standard specification for road and bridge construction.

*** Calculation of Seeding & Fertilizer around RipRap (3 sides)

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**SCHEDULE
 OF QUANTITIES
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FAP 656	FAU 6757	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
IL 29	US 150	*	TAZEWELL	32	12-A

*D-4 STRUCTURE REPAIR 2008

RESURFACING QUANTITIES						ROUTE		SECTION	COUNTY	SHEET	
						F.A.P.	656/IL 29	D4 STRUCTURE REPAIR 2008	TAZEWELL	TOTAL	NO.
						F.A.U.	6757/US 150				
CONTRACT : 68738											
LOCATIONS			LENGTH	AVRG WIDTH	AREA	BIT. MAT (PR CT)	AGR (PR CT)	LEVEL BIND (M.M) N50 (3/4")	HOT - MIX ASPHALT SURF CSE MIX "D" N50 (1 1/2")	HOT - MIX ASPHALT SURF REM 1 1/2"	HOT - MIX ASPHALT SURF REM 3/4"
STATION	TO	STATION	FT	FT	SQ YD	TON	TON	TON	TON	TON	SQ YD
1398+53	TO	1399+75	122	34	460.9	0.24	1.4	20.0	40.1		
1399+46	TO	1399+12	34	34	64.2	0.03				5.6	
1399+18	TO	1398+84	34	34	64.2	0.03				5.6	
BUTT JOINTS			30	34	226.7	0.12		9.9	19.7	19.7	
TEMP.RAMPS			5	34	37.8	0.02		1.6	3.3	3.3	
TOTALS					854	0.44	1.4	32	63	34	
LOCATIONS			LENGTH	AVRG WIDTH	AREA	BIT. MAT (PR CT)	HMA BASE COURSE 9"	AGGREGATE BASE COURSE 10"			
STATION	TO	STATION	FT	FT	SQ YD	TON	TON	TON			
1399+18	TO	1399+46	28	34	105.8			60.3			
1399+18	TO	1399+46	28	34	105.8	0.06	55.2				
TOTALS					211.6	0.06	55.2	60.3			

GUARDRAIL					
LOCATION	SPBGR TYPE A	TRAFFIC BARR TERM TY 1 SPL (TANAGENT)	TRAFFIC BARR TERM TY 6B	GUARDRAIL MARKER TYPE A	TERMINAL MARKER DIRECT APPLIED
	(FT)	(EACH)	(EACH)	(EACH)	(EACH)
RT STA. 1396+08 TO 1396+58		1			1
RT STA. 1396+58 TO 1399+70	312.5			6	
LT STA. 1396+97 TO 1397+47		1			1
LT STA. 1397+47 TO 1399+47	200			4	
LT STA. 1399+47 TO 1400+03			1		
TOTAL	512.5	2	1	10	2

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SCHEDULE OF QUANTITIES
IL 29
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IL 29	US 150	*	TAZEWELL	32	13

*D-4 STRUCTURE REPAIR 2008

TOPSOIL FURNISH & PLACE 4"	
LOCATION	SQ YD
RT STA. 323+01 TO 323+41	88.9
LT STA. 323+01 TO 323+41	88.9
TOTAL	177.8

GUARDRAIL REMOVAL	
LOCATION	FT
RT STA. 322+91 TO 323+55	64
LT STA. 322+91 TO 323+55	64
TOTAL	128

FURNISHED EXCAVATION	
LOCATION	CU YD
RT & LT STA. 323+01 TO 323+41	55
TOTAL	55

PRECAST REINF. CONC. FLRD END SECTS 30"	
LOCATION	EACH
RT.STA. 323+20	1
LT.STA. 323+20	1
TOTAL	2

TRAFFIC CONTROL STANDARDS	
STANDARD	L.SUM
701201	1

PIPE CULVERTS, TYPE 2 RCCP 30"	
LOCATION	FEET
STA. 323+20	45
TOTAL	45

CONCRETE HEADWALL & WING WALL REMOVAL	
LOCATION	EACH
LT.& RT.STA. 323+20	2
TOTAL	2

REVISIONS	
NAME	DATE

ILLINOIS DEPARTMENT OF TRANSPORTATION

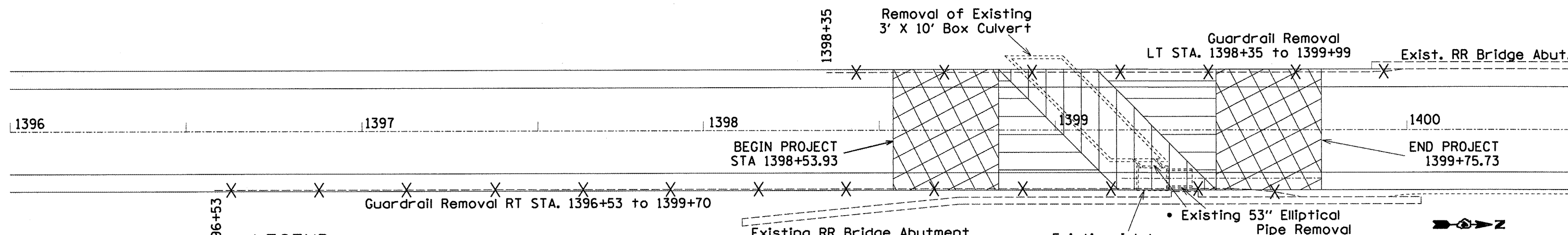
**SCHEDULE
OF QUANTITIES
US 150**

DATE

CHECKED BY

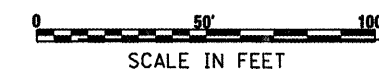
FAP 656	FAU 6757	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
IL 29	US 150	*	TAZEWELL	32	14

*D-4 STRUCTURE REPAIR 2008



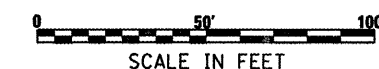
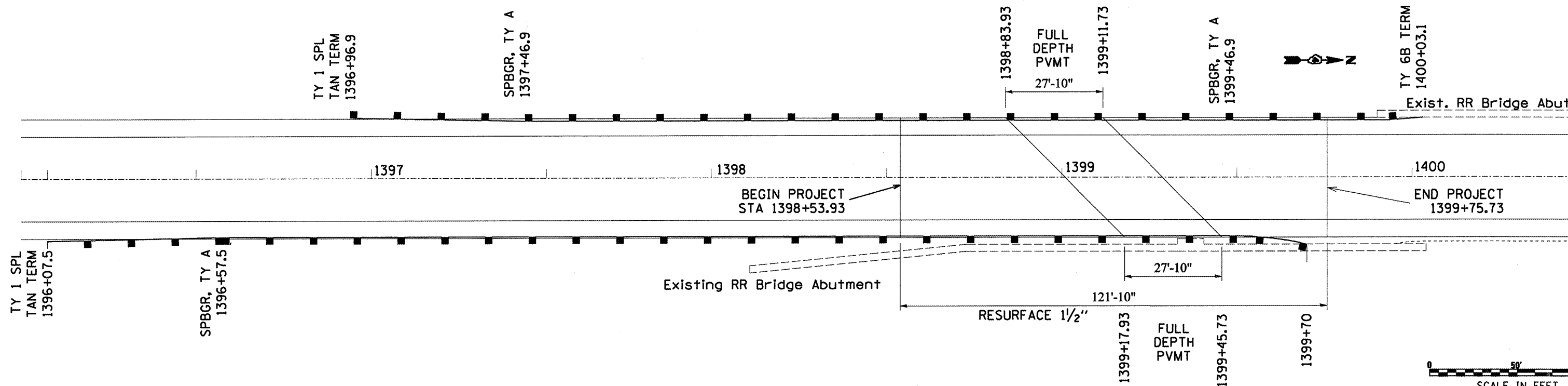
LEGEND

- XXXXX GUARDRAIL REMOVAL
- HMA SURFACE REMOVAL - BUTT JOINT
- HMA SURFACE REMOVAL - 1 1/2"
- PAVEMENT REMOVAL



**REMOVAL
PLANS
IL 29**

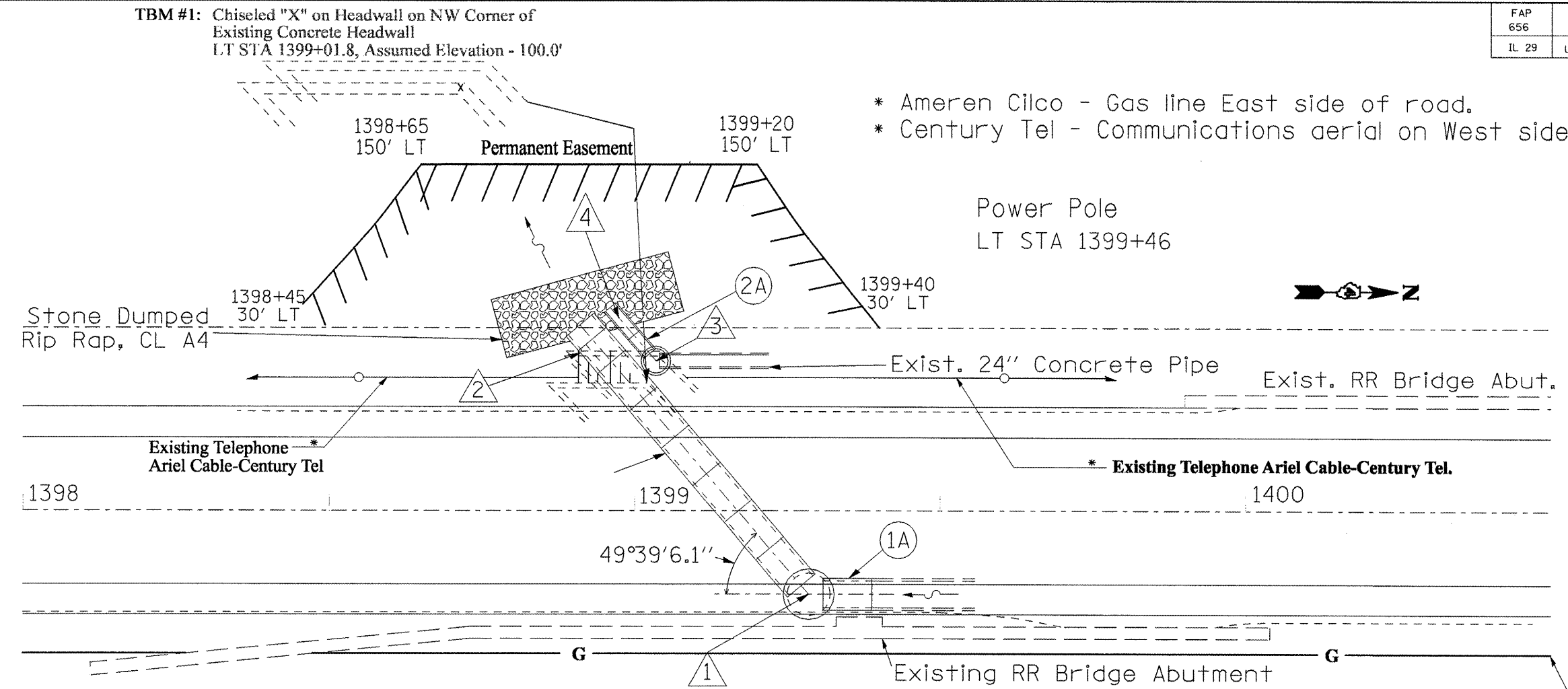
The removal of existing inlet and existing 53" elliptical pipe to be included in the cost of "Removal of Existing Structures No. 1."



**PROPOSED
PLANS
IL 29**

FAP 656	FAU 6757	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
IL 29	US 150	*	TAZEWELL	32	15

*D-4 STRUCTURE REPAIR 2008



- * Ameren Cilco - Gas line East side of road.
- * Century Tel - Communications aerial on West side of road.

PIPE RUN AND TRENCH BACKFILL TABLE

PIPE RUN #	LOCATION	TYPE	LENGTH	TRENCH BACKFILL
			(FT)	(CU YD)
1A	RT STA. 1399+31 TO RT STA. 1399+39	TYPE 2, REIN CONC ELLIP, EQV ROUND SIZE 42"	8	
1B	LT STA. 1398+96 TO RT STA 1399+27	TYPE 2, REIN CONC ELLIP, EQV ROUND SIZE 48"	48	42
2A	LT STA. 1398+98 TO LT STA. 1399+02	TYPE 2, REIN CONCRETE CULVERT PIPE 24"	4	

Existing 4" Wrapped Steel Intermediate Pressure Gas Main (Approx. 3' Cover)

STURUCTURE #	LOCATION	OFFSET (FT)	TYPE	QTY. EACH	FRAME & GRATE	TOP OF GRATE ELEV.	INVERT ELEV.	
							N	W
1	RT STA. 1399+29	13.67'	MANHOLE TYPE A, 8' DIAMETER	1	TYPE 4	99.73	94.73	94.73
2	LT STA. 1398+97	24.34'	PRC REIN CONC FLRD END SEC RS 48"	1	GRT CONC FLD END SEC 48" EQV			
3	LT STA. 1399+03	24.50'	MANHOLE TYPE A, 4' DIAMETER	1	TYPE 1, CLOSED LID	98.1	94.43	94.43
4	LT STA. 1398+98	28.74'	PRC FLARED END SEC 24"	1	GRT CONC FLD END SEC 24"			



NOTE:

No overhead or underground electric facilities at this location.
Existing fiber optic and coax in the vicinity of this project under roadway
Call JULIE for exact loactions of all utilities.

REVISIONS	
NAME	DATE

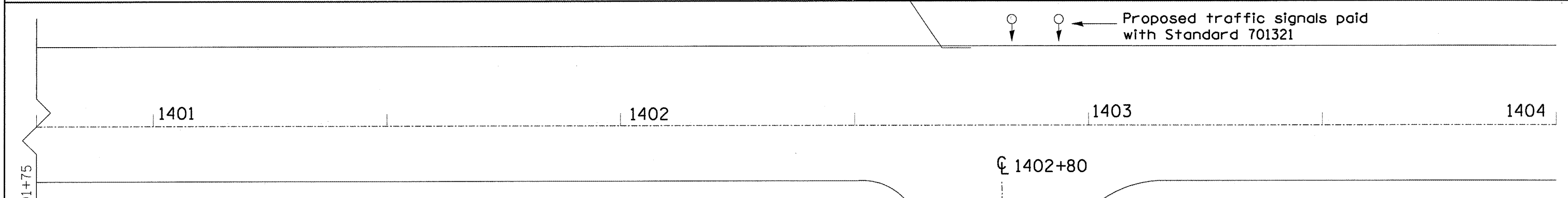
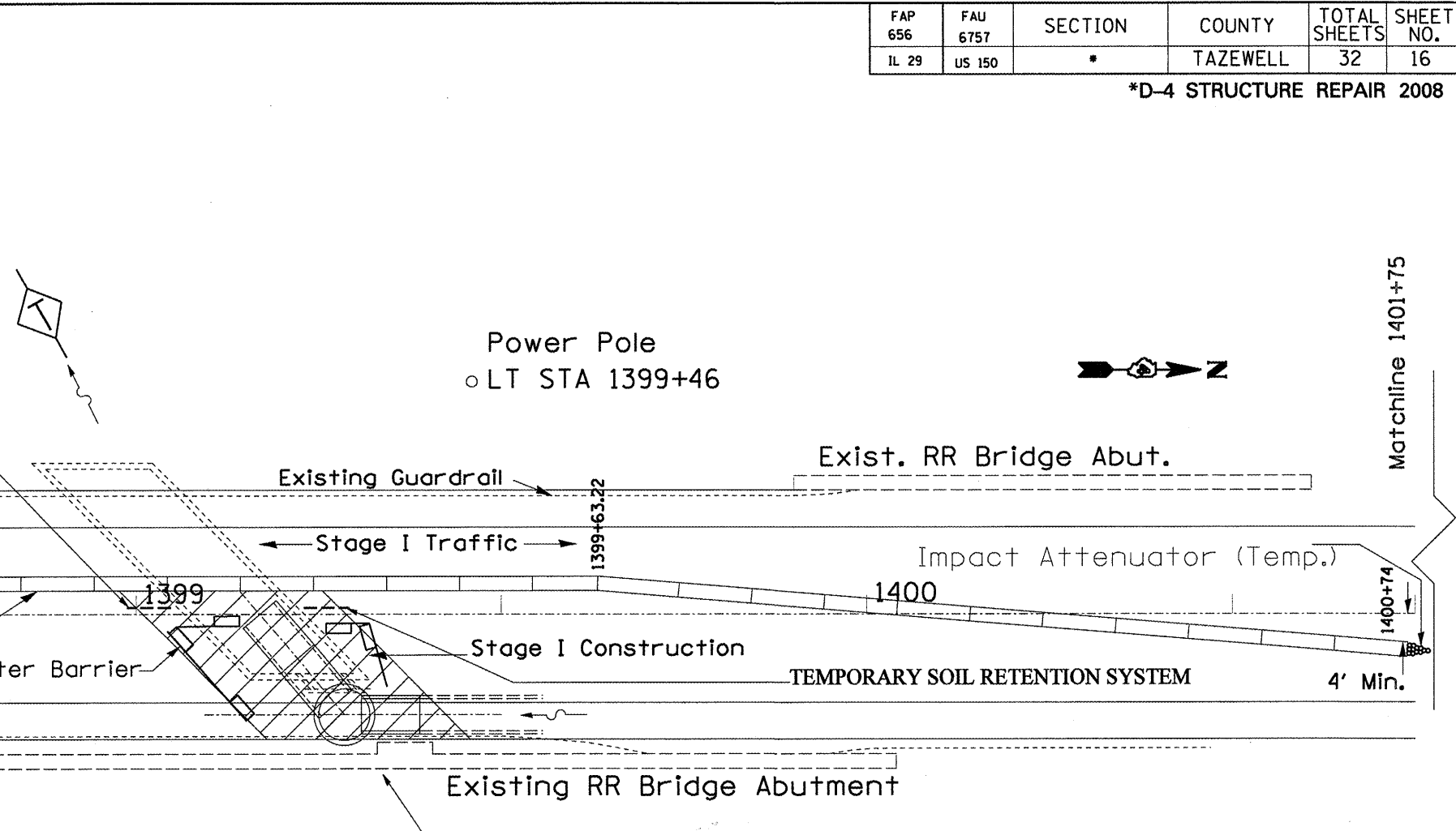
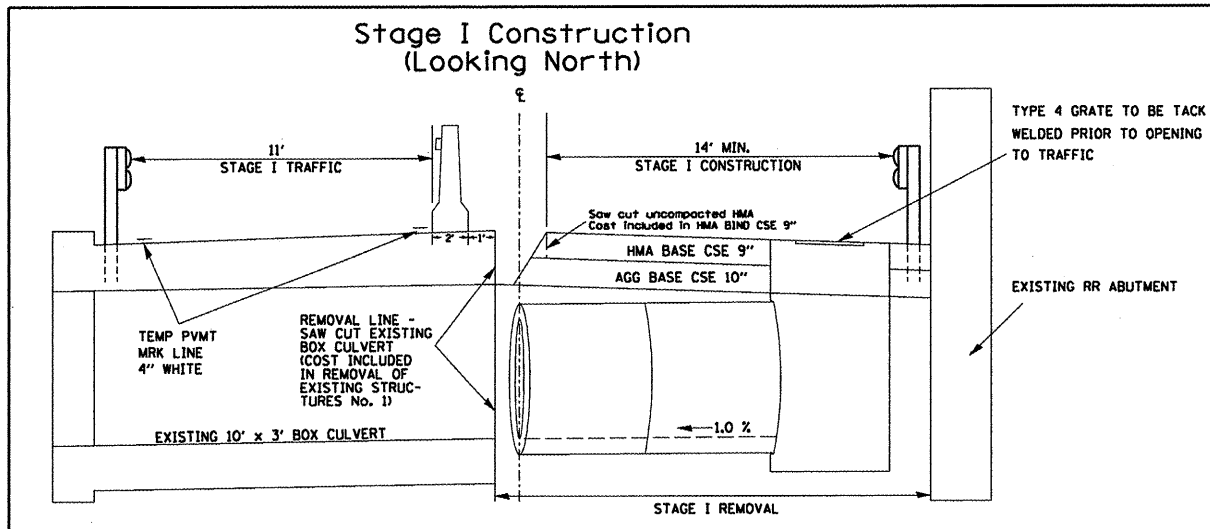
ILLINOIS DEPARTMENT OF TRANSPORTATION

PROPOSED DRAINAGE IL 29

DATE _____ CHECKED BY _____

FAP 656	FAU 6757	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
IL 29	US 150		TAZEWELL	32	16

*D-4 STRUCTURE REPAIR 2008



Stage I Construction

Saw cut stage line, install temporary concrete barrier wall, signs, and pavement markings as detailed in Standard 701321-10 and as shown on this sheet.

The existing guardrail on the West side is to remain in place during Stage I construction and the new guardrail is to be erected before opening lane to traffic.

Install temporary soil retention system.

The detector loop, signals, signing, and all items required to integrate VFW Road signals with Standard 701321-10 will be included in the cost of Temporary Bridge Traffic Signals and 701321-10 pay item.

Tack weld new Type 4 grate to frame (Cost included in Type 4 Frame & Grate).

Milling and resurfacing (1 1/2") to be done after completion of Stage II.

Using traffic control and protection standard 701306-02

Matchline 1401+75

Stage I Construction

Proposed detector loop. See Stage Construction Notes.

VFW ROAD

CL 1402+80

0 10' 20' 30'
SCALE IN FEET

REVISIONS	
NAME	DATE

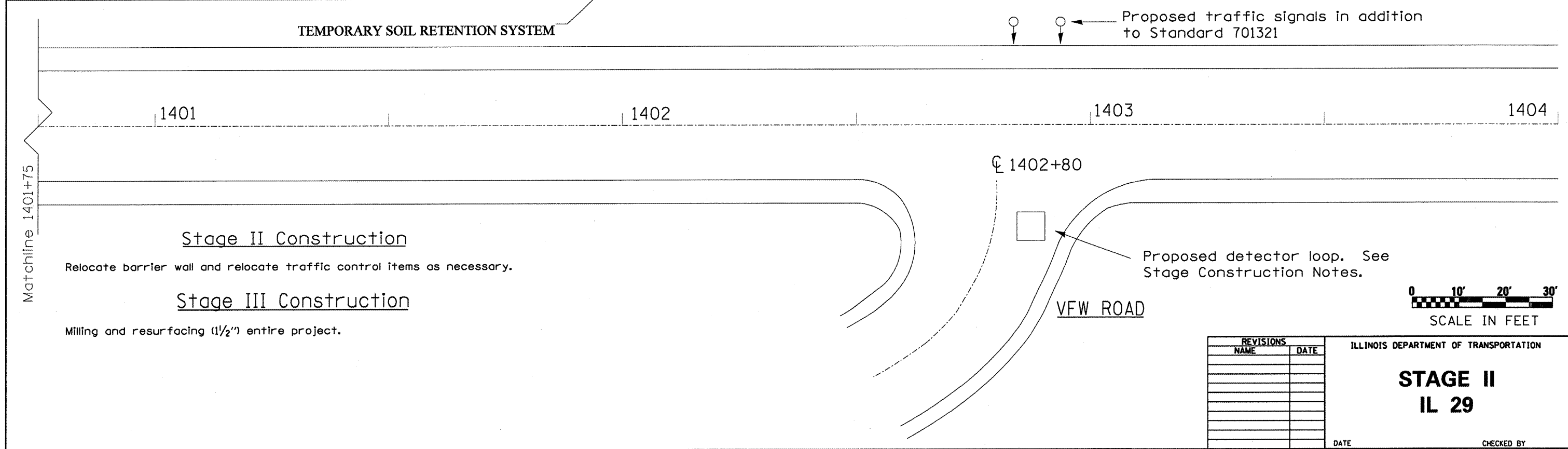
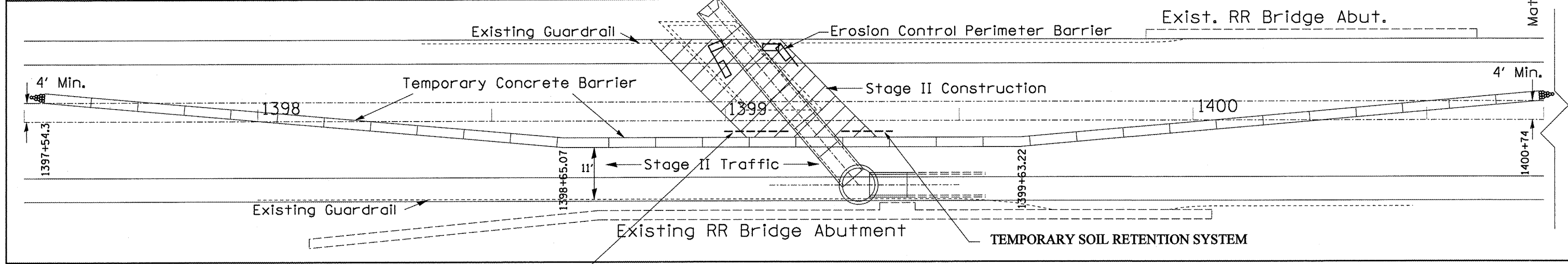
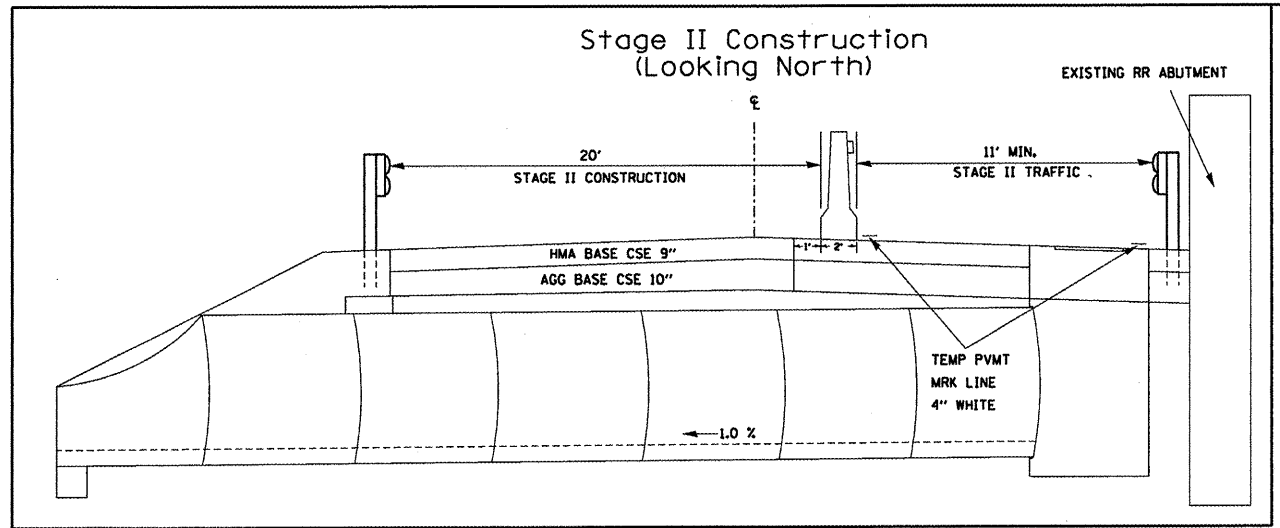
ILLINOIS DEPARTMENT OF TRANSPORTATION

STAGE I
IL 29

DATE _____ CHECKED BY _____

FAP 656	FAU 6757	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
IL 29	US 150	*	TAZEWELL	32	17

*D-4 STRUCTURE REPAIR 2008

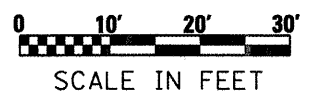


REVISIONS	
NAME	DATE

ILLINOIS DEPARTMENT OF TRANSPORTATION

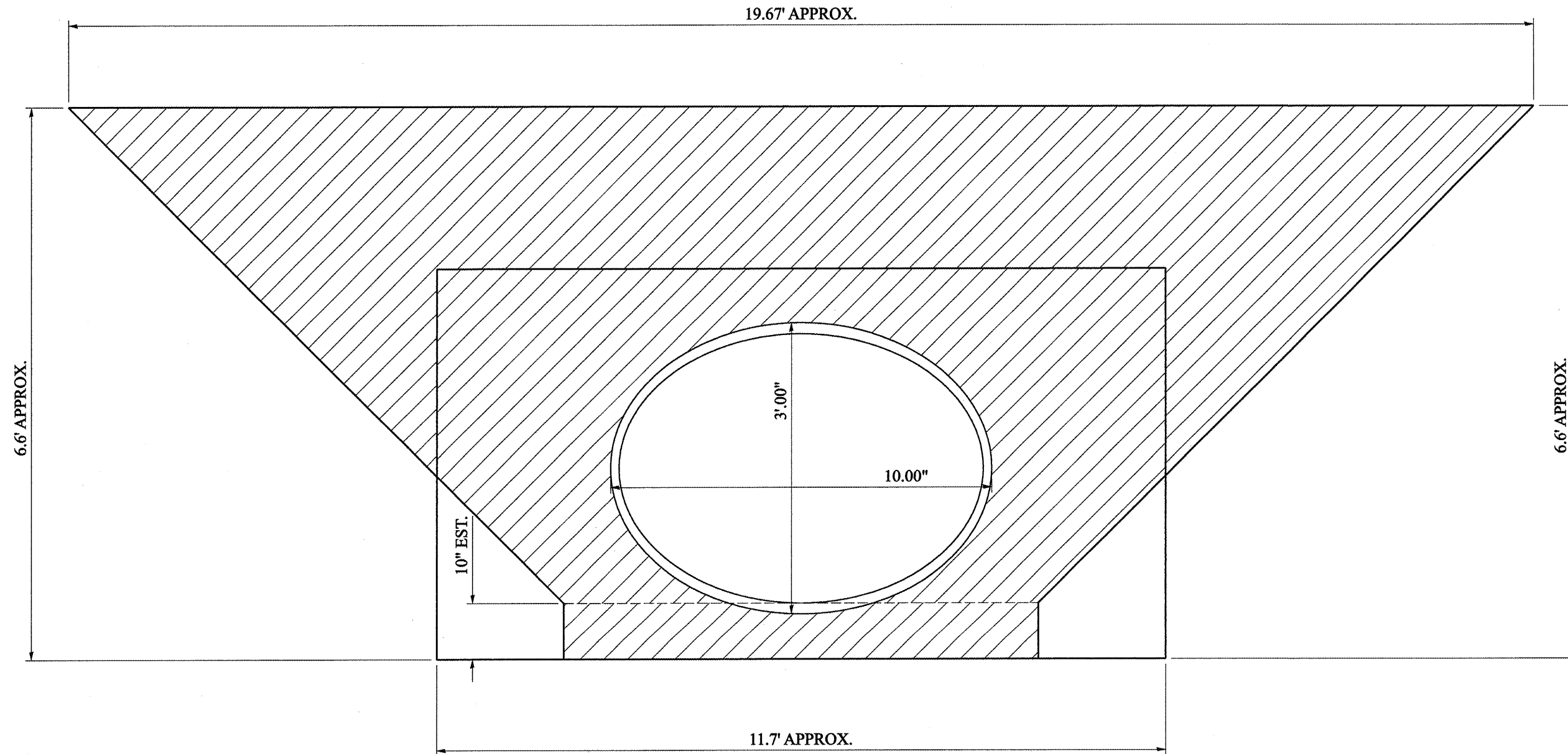
STAGE II
IL 29

DATE _____ CHECKED BY _____



FAP 656	FAU 6757	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
IL 29	US 150	*	TAZEWELL	32	17A

*D-4 STRUCTURE REPAIR 2008



NOTE:

TEMPORARY SOIL RETENTION SYSTEM WILL BE USED TO RETAIN SOIL BEHIND TEMPORARY BARRIER WALL TO SUSTAIN ROAD FOR TRAFFIC STAGING.

REVISIONS	
NAME	DATE

ILLINOIS DEPARTMENT OF TRANSPORTATION

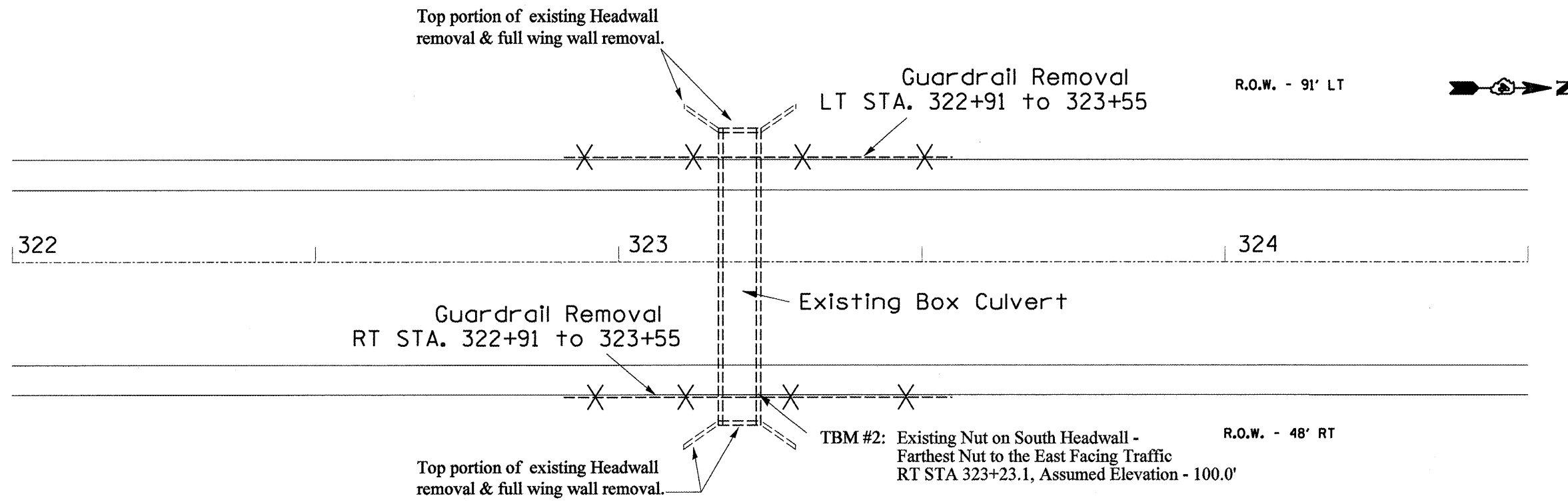
**SOIL RETENTION SYSTEM
IL 29**

DATE

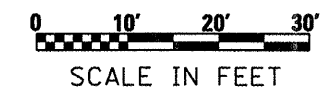
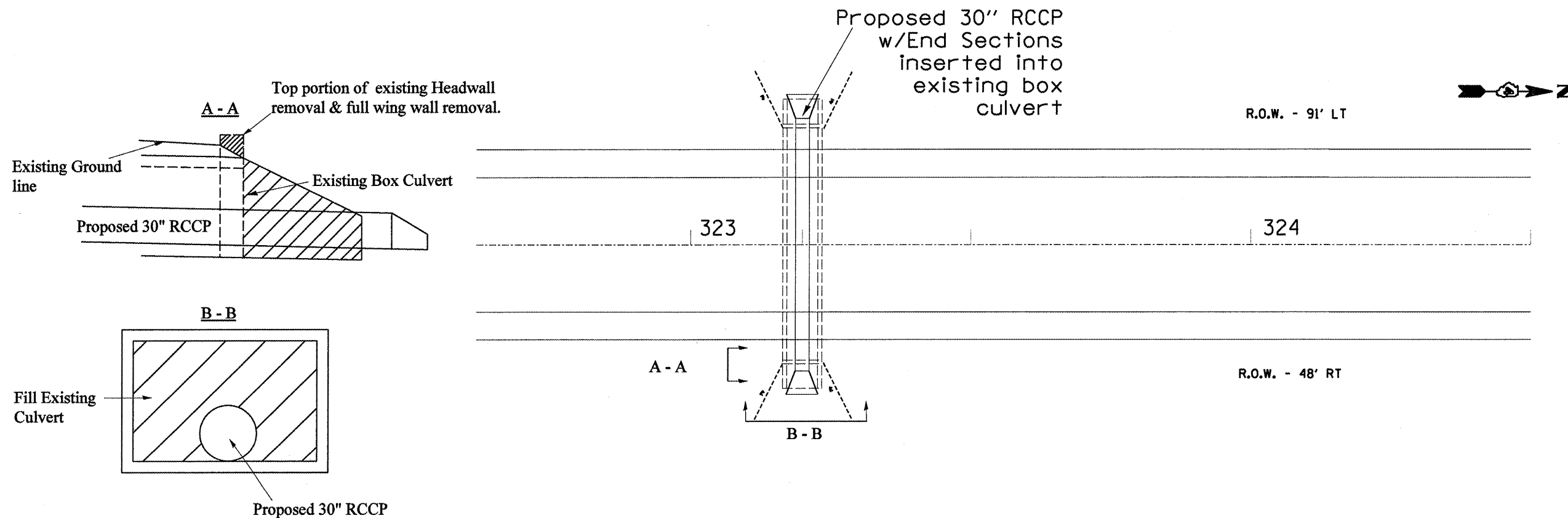
CHECKED BY

FAP	FAU	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
656	6757		TAZEWELL	32	18
IL 29	US 150	*			

*D-4 STRUCTURE REPAIR 2008

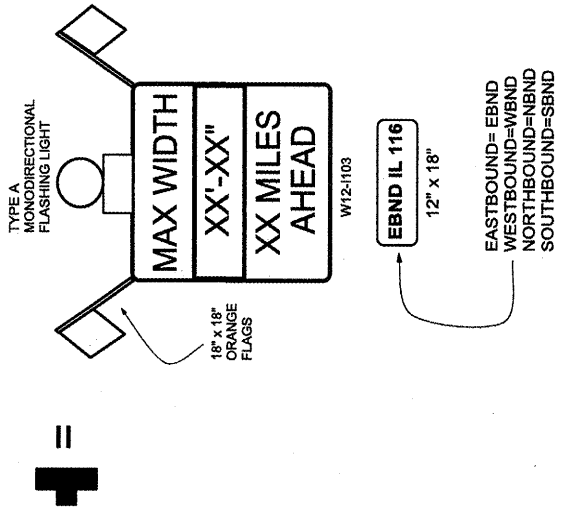
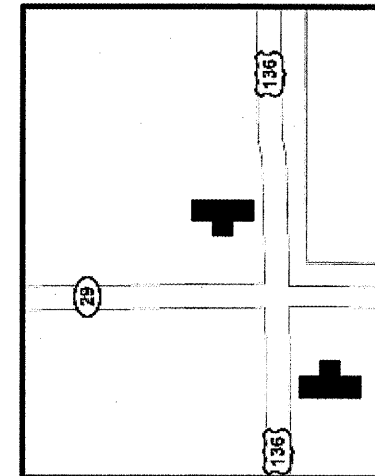
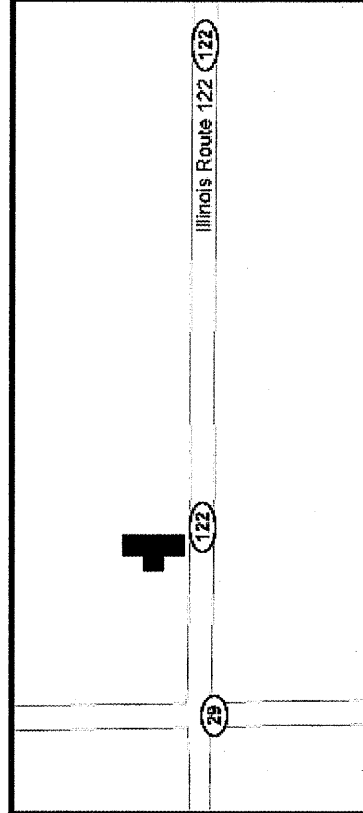
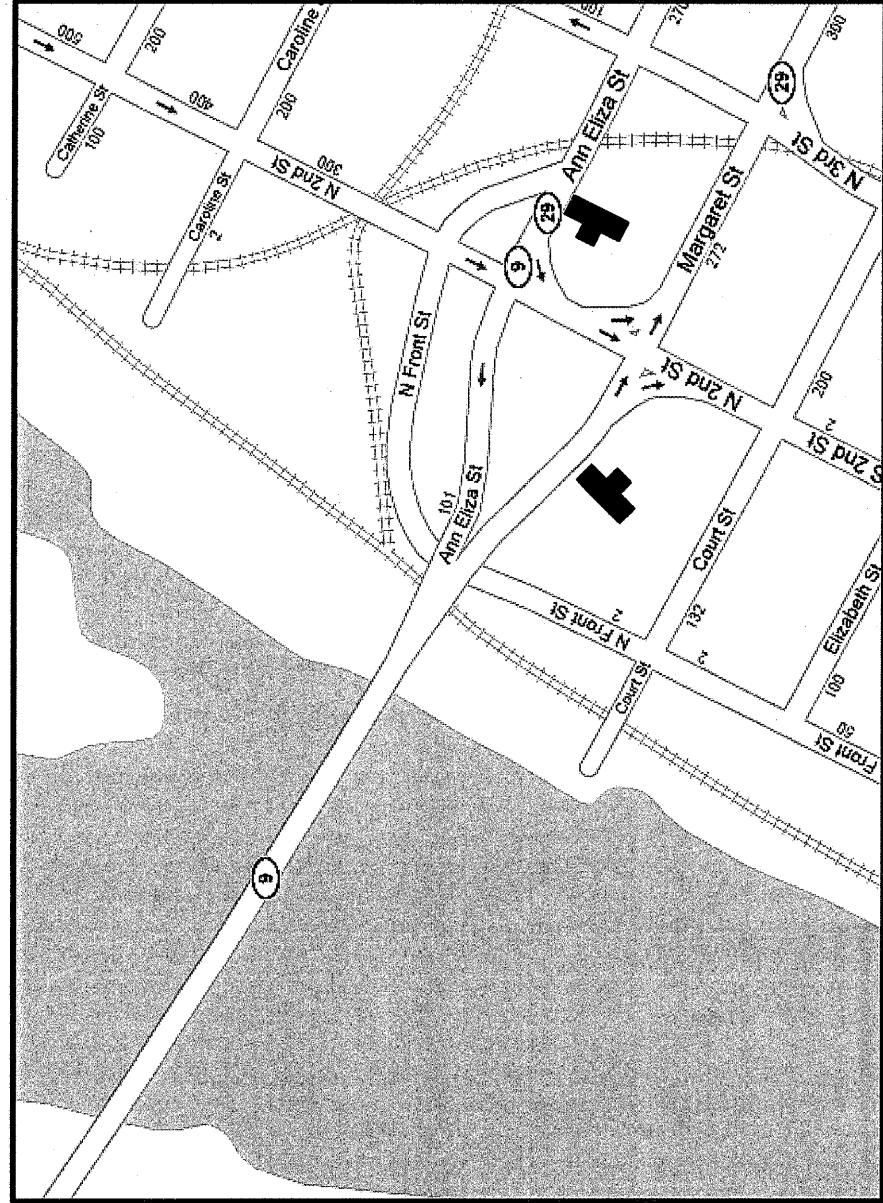


**REMOVAL
PLANS
US 150**

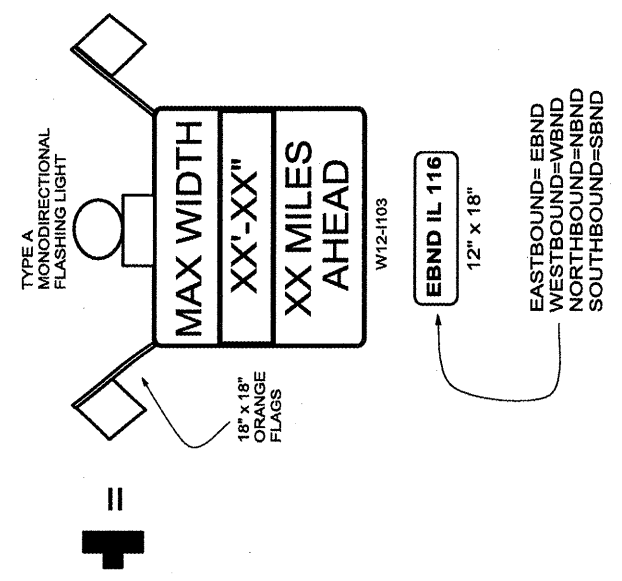
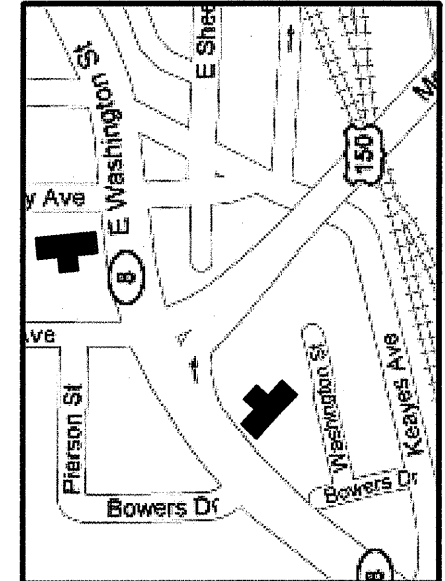
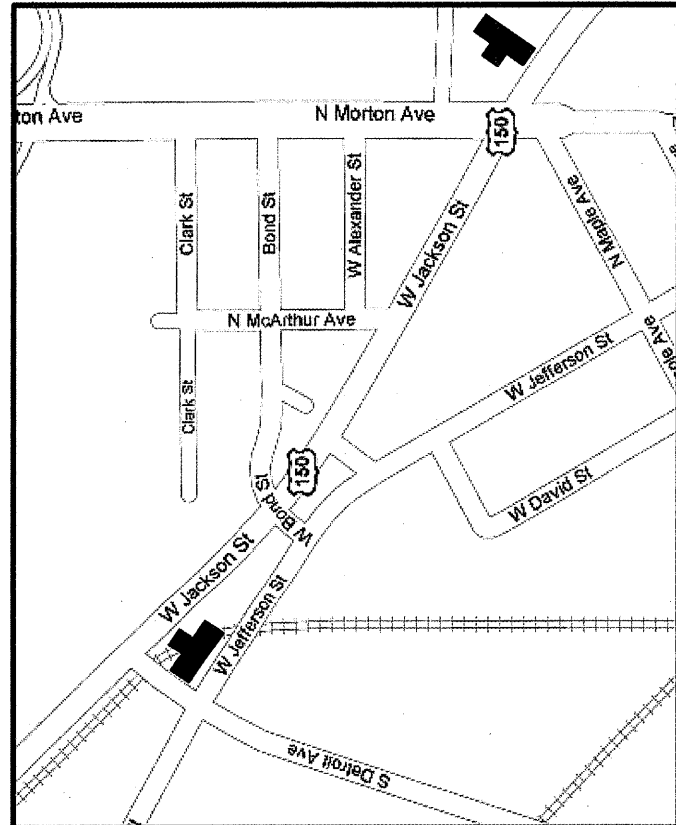


**PROPOSED
PLANS
US 150**

Width Restriction Signage IL 29



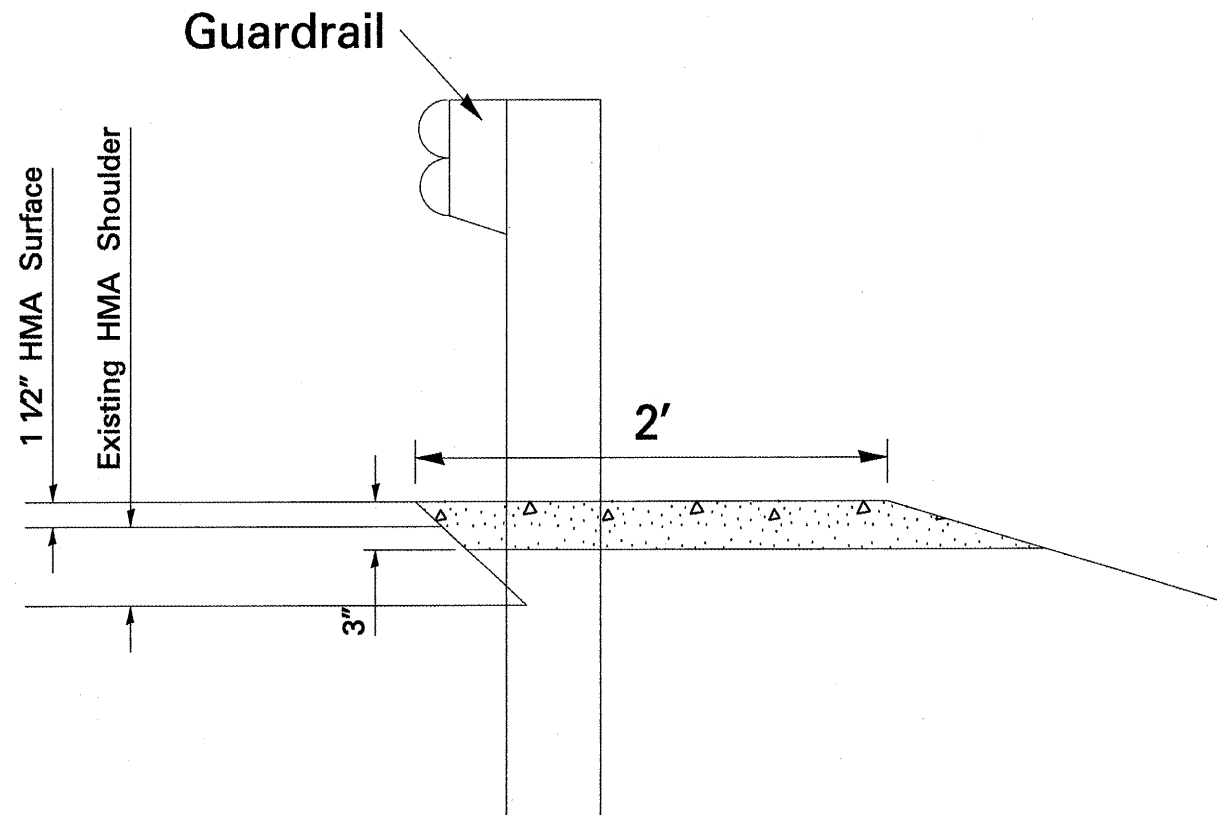
Width Restriction Signage US 150



FAP 656	FAU 6757	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
IL 29	US 150	*	TAZEWELL	32	22

*D-4 STRUCTURE REPAIR 2008

1. This work shall consist of grading as needed, furnishing, placing, and shaping crushed aggregate around and behind Steel Plate Beam Guardrail posts in accordance with Plan Details.
2. The aggregate shall be deposited, compacted, and shaped by either mechanical or hand methods, in a manner reasonably true to line and grade.
3. The contractor shall have the option of placing the guardrail before or after the aggregate is in place. If the guardrail is placed after the aggregate, then any voids must be filled and the aggregate returned to line and grade.
4. 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.

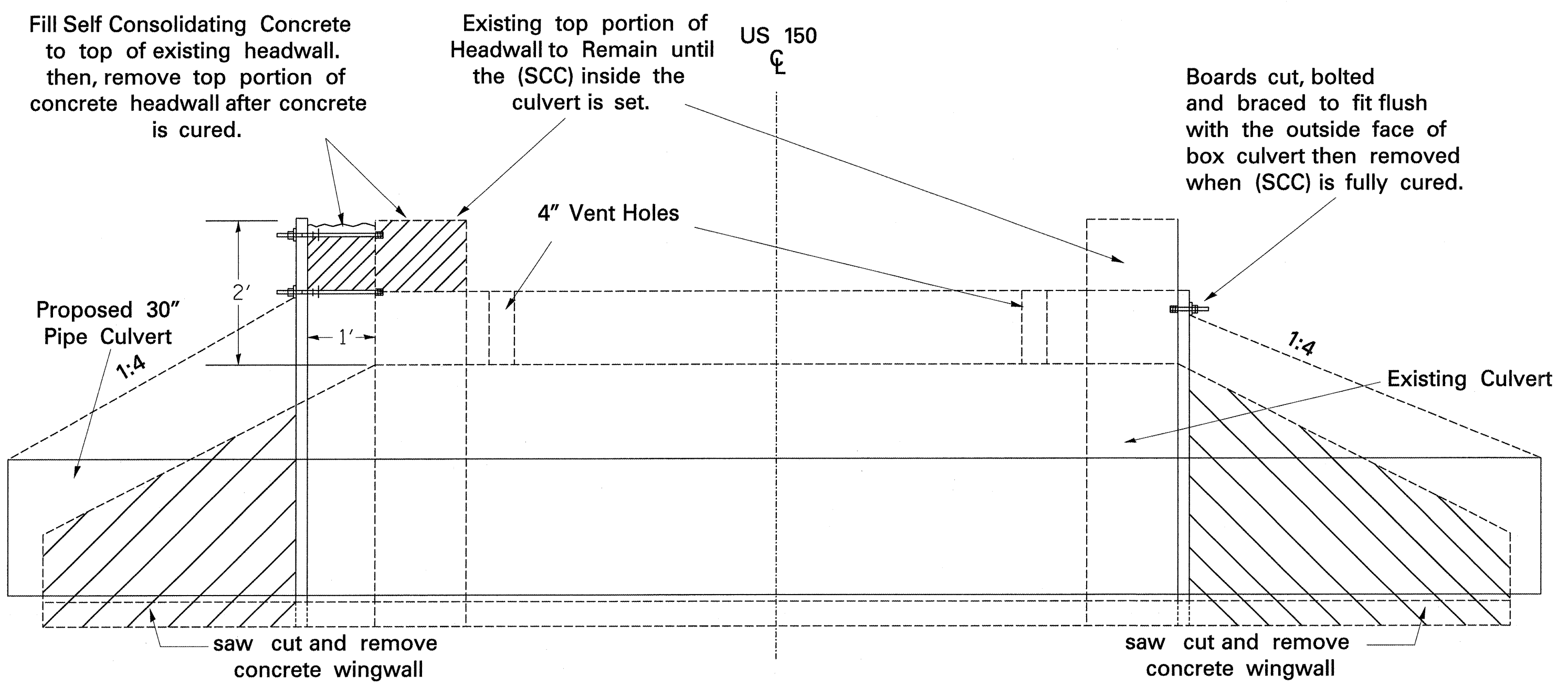


TYPICAL SECTION WITHOUT EROSION CONTROL CURB

REVISIONS		ILLINOIS DEPARTMENT OF TRANSPORTATION	
NAME	DATE		
GEORGE ELIAS	11-08	GUARDRAIL AGG. EROSION CONTROL DETAIL IL 29	
		DATE	CHECKED BY

FAP 656	FAU 6757	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
IL 29	US 150	*	TAZEWELL	32	23

*D-4 STRUCTURE REPAIR 2008



NOTE:

Contractor is to maintain 2' head of material (head pressure) until SCC is apparent through both vent holes.

REVISIONS	
NAME	DATE
Kyle Wheelwright	02-26

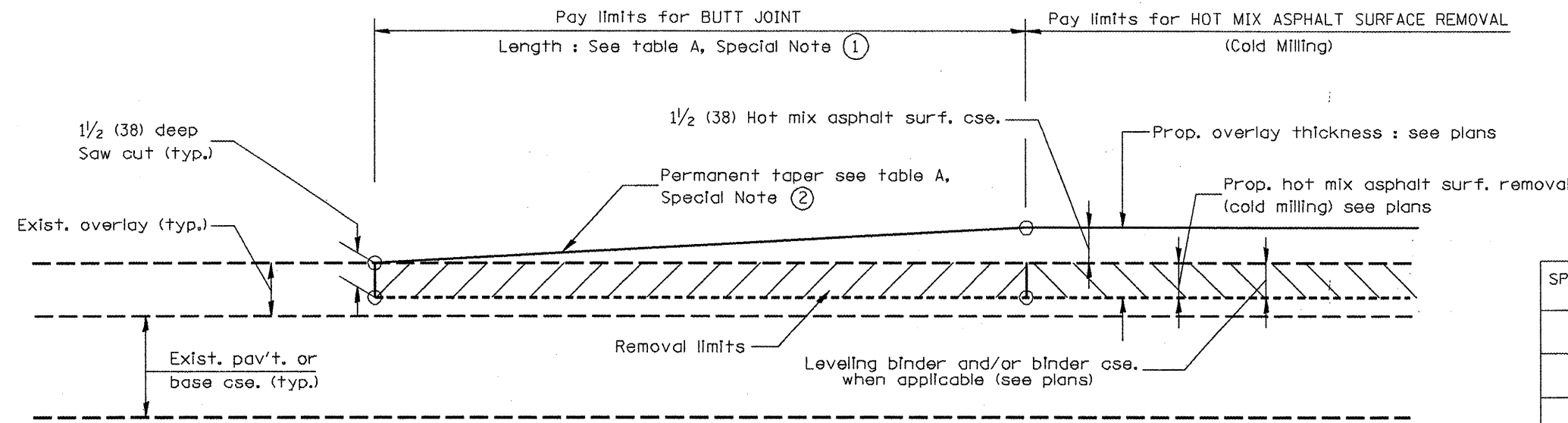
ILLINOIS DEPARTMENT OF TRANSPORTATION

**FILL EXISTING
CULVERT
DETAIL US 150**

DATE

CHECKED BY

FAP	FAU	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
656	6757	D-4 STRUCTURE REPAIR 2008	TAZEWELL	33	24
IL 29	US 150	STA.	TO STA.		
		FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT	



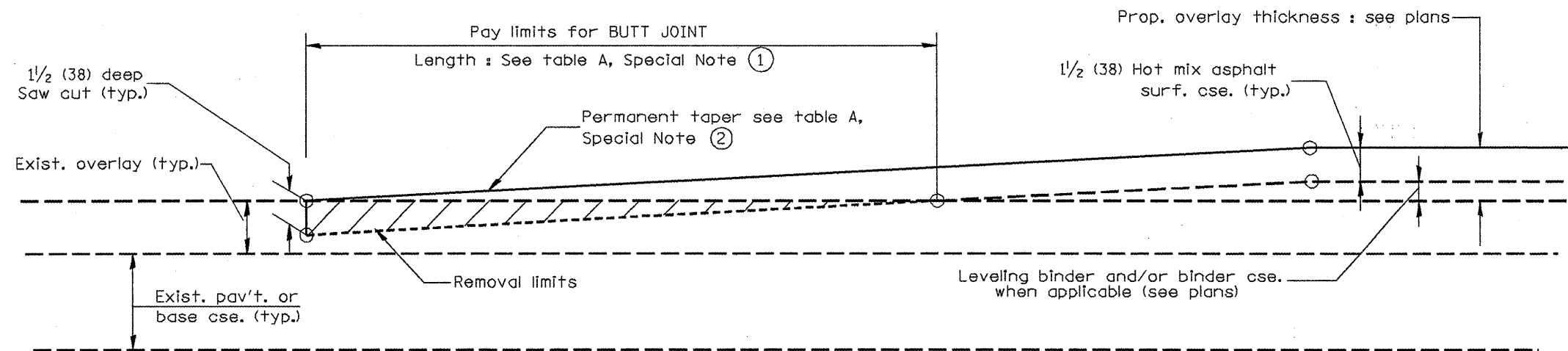
CASE 1 : WITH HOT MIX ASPHALT SURFACE REMOVAL (COLD MILLING)

TABLE A
(LENGTHS AND TAPER RATES)

SPECIAL NOTE NUMBER	ELEMENT	MAINLINE INTERSTATES & 4-LANE EXPRESSWAYS	ALL OTHERS
①	LENGTH OF BUTT JOINT	60'(18.0 m)	30'(9.0 m)
②	PERMANENT TAPER RATE	1:480	1:240
③	TEMPORARY RAMP TAPER RATE	1:80	1:40
④	TEMPORARY RAMP LENGTH	10'(3.0 m)	5'(1.5 m)
⑤	LENGTH OF BUTT JOINT	10'(3.0 m)	10'(3.0 m)

GENERAL NOTES

- The work shall be done in accordance with Article 406.08 and the Special Provision for Butt Joints.
- The pavement surface to be removed may be either bituminous or P.C. concrete. The work shall be performed in accordance with Article 440.04 and the Special Provisions for Butt Joints.
- 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 406.05.



CASE 2 : NO HOT MIX ASPHALT SURFACE REMOVAL (COLD MILLING)

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

ILLINOIS DEPARTMENT OF TRANSPORTATION
DISTRICT CADD STANDARD

BUTT JOINTS

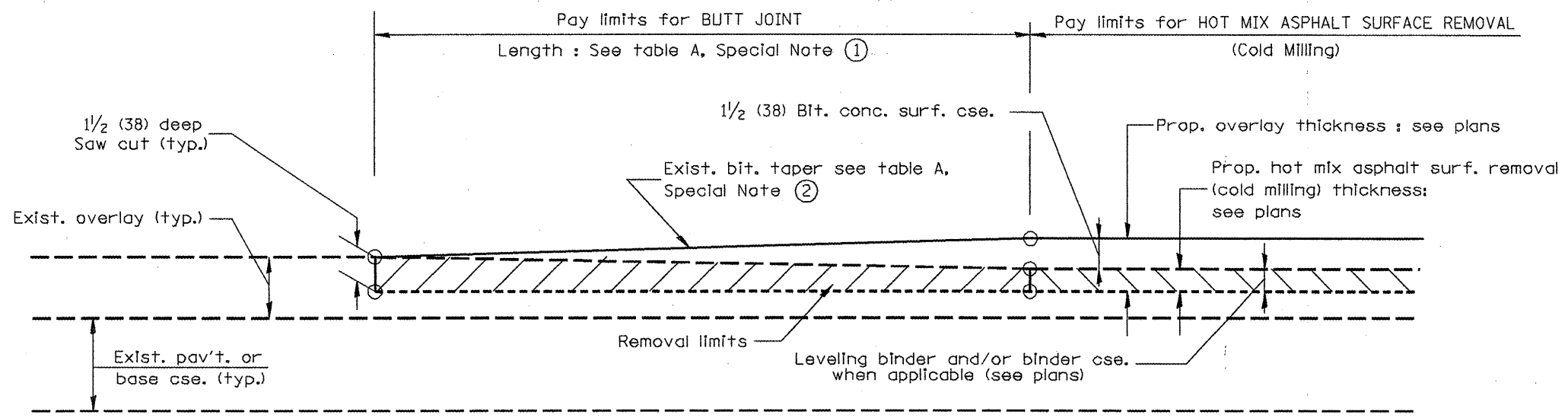
CADD STD NO. 406101-D4 SHEET 1 OF 3

SCALE: NOT DRAWN TO SCALE DRAWN BY CADD
DATE CHECKED BY

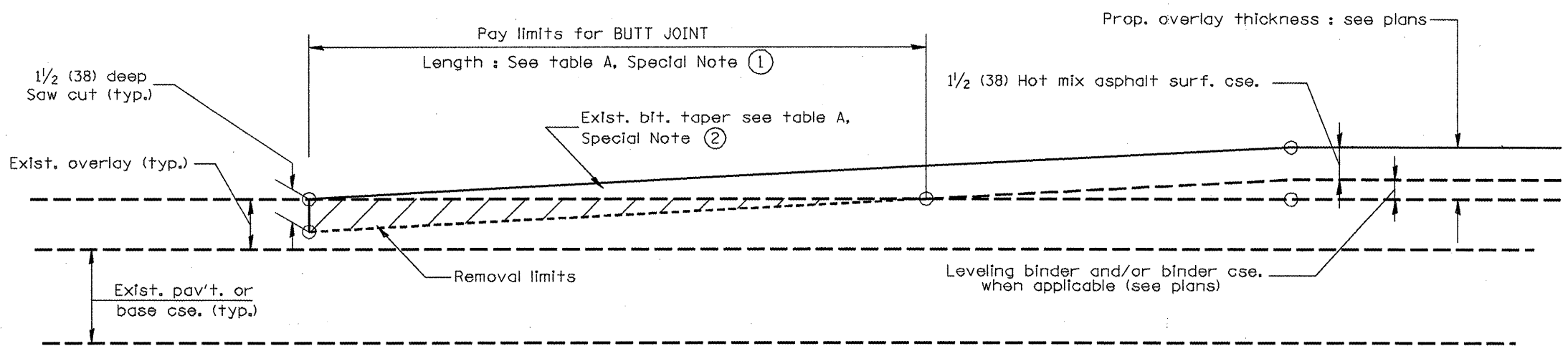
DATE	REVISIONS	BY
1-1-97	RENUM. C-23.01, NEW REVISION BOX	T.P.
4-1-97	CORRECTION TO DEPTH	J.A.
9-15-05	REVISED DESIGNER NOTE	M.M.A.
10-16-06	REVISED TO 2007 SPEC.	M.A.

DESIGNER NOTES:
 1. Include District Special Provision for Butt Joints & for Hot Mix Asphalt Removal (Cold Milling).
 2. The butt joints pay item includes the saw cut & temporary ramp. Payment for the Butt Joint applies whether or not the project features Hot Mix Asphalt Removal (Cold Milling).

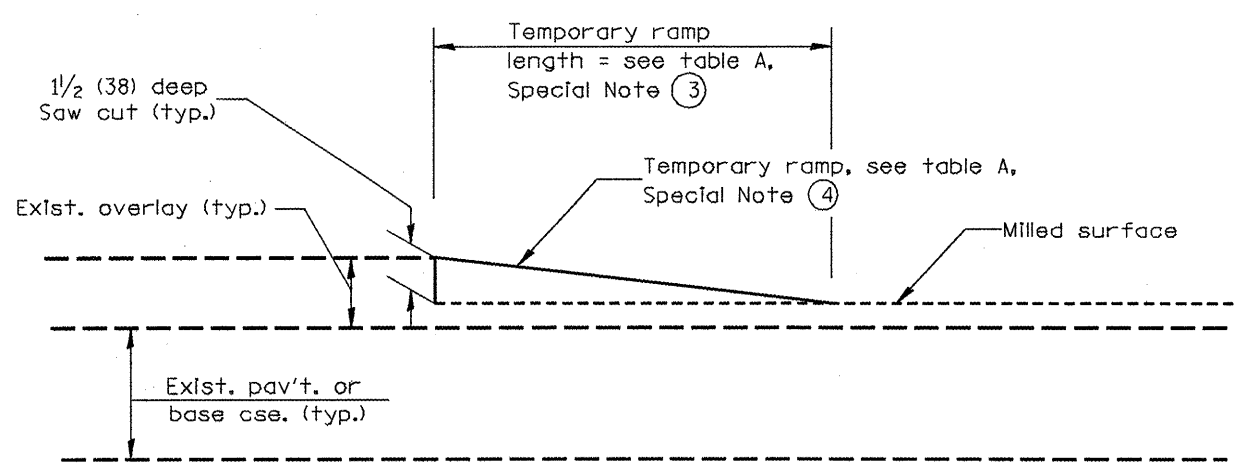
FAP	FAU	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
656	6757	D-4 STRUCTURE REPAIR 2008	TAZWELL	33	25
IL 29	US 150	STA.	TO STA.		
		FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT	



**CASE 3 : WITH HOT MIX ASPHALT SURFACE REMOVAL (COLD MILLING)
TIE-IN TO EXISTING BITUMINOUS TAPER**



**CASE 4 : NO HOT MIX ASPHALT SURFACE REMOVAL (COLD MILLING)
TIE-IN TO EXISTING BITUMINOUS TAPER**



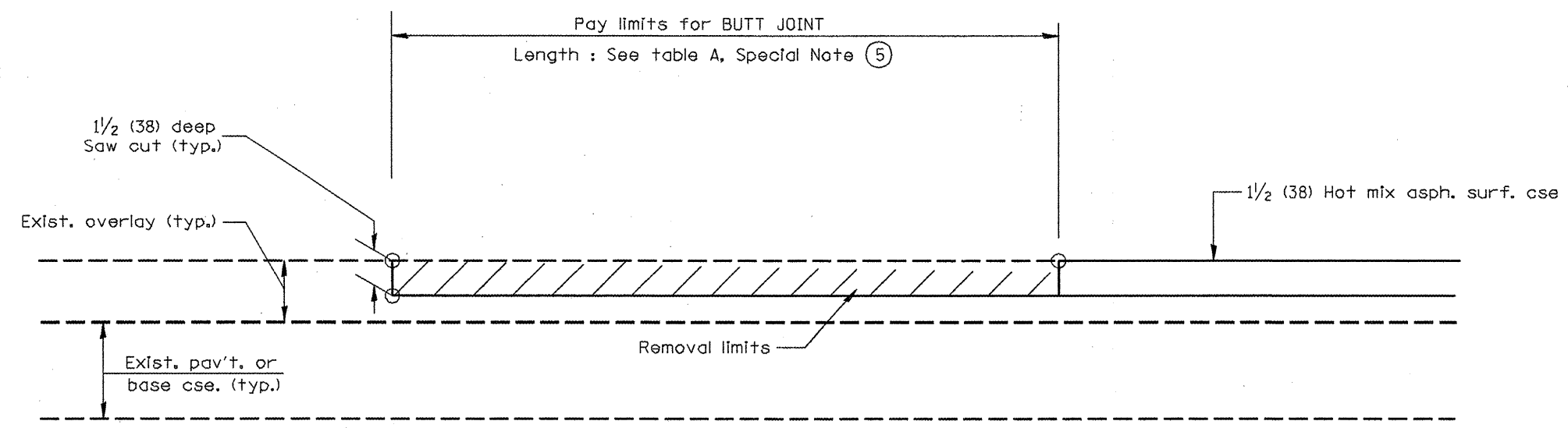
DETAIL TEMPORARY RAMP

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

ILLINOIS DEPARTMENT OF TRANSPORTATION
DISTRICT CADD STANDARD
BUTT JOINTS
 CADD STD NO. 406101-D4 SHEET 2 OF 3
 SCALE: NOT DRAWN TO SCALE DRAWN BY CADD
 CHECKED BY

CONTRACT NO. 68921

FAP	FAU	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
656	6757	D-4 STRUCTURE REPAIR 2008	TAZEWELL	33	26
IL 29	US 150	STA.	TO STA.		
		FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT	



**CASE 5 : WITH HOT MIX ASPHALT SURFACE REMOVAL (COLD MILLING)
TIE-IN TO EXISTING BITUMINOUS TAPER**

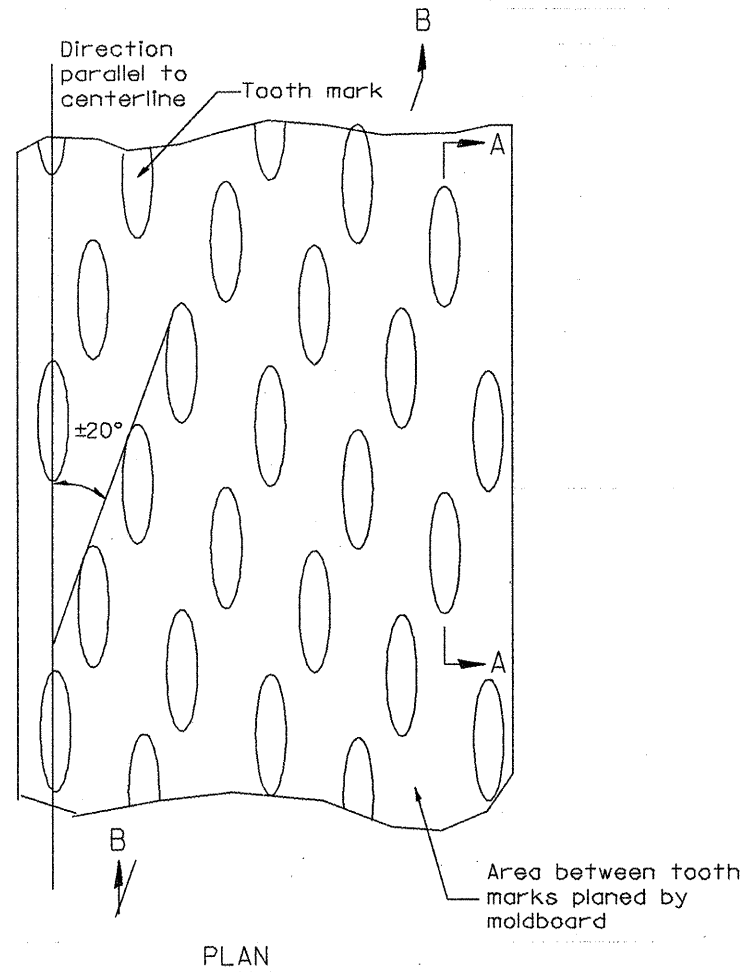
All dimensions are in inches (millimeters) unless otherwise noted.

ILLINOIS DEPARTMENT OF TRANSPORTATION
DISTRICT CADD STANDARD

BUTT JOINTS
CADD STD NO. 406101-D4 SHEET 3 OF 3
DRAWN BY CADD
SCALE: NOT DRAWN TO SCALE
CHECKED BY

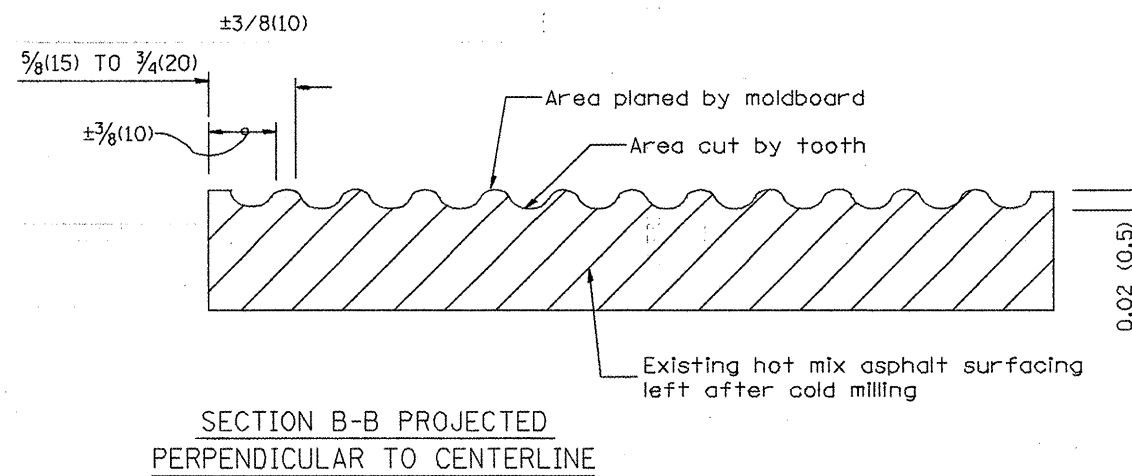
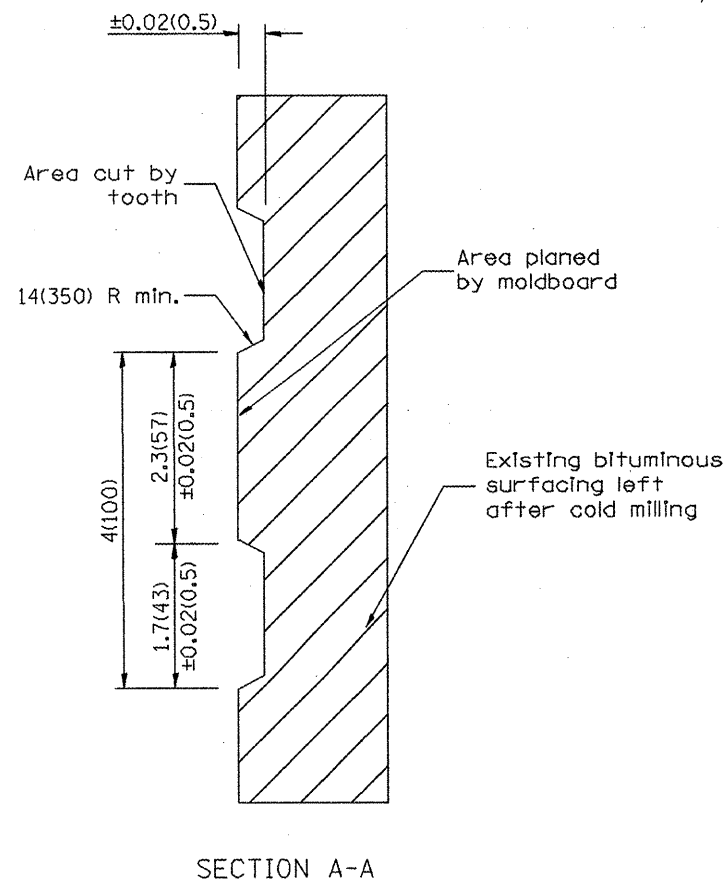
68921

FAP	FAU	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
656	6757	D-4 STRUCTURE REPAIR 2008	TAZEWELL	33	27
IL 29	US 150	STA.	TO STA.		
		FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT	



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.



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

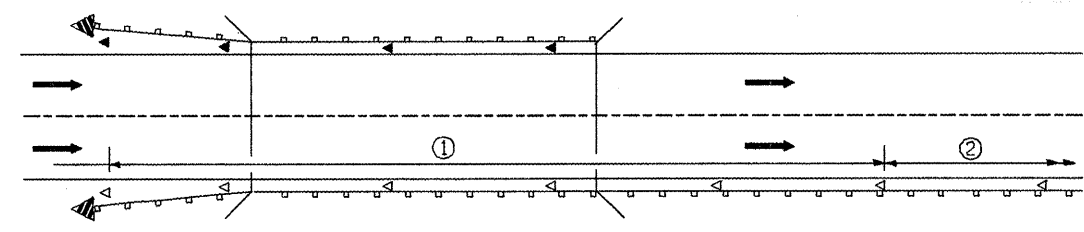
DESIGNER NOTE
1. INCLUDE DISTRICT SPECIAL PROVISION, IF APPLICABLE.

DATE	REVISIONS	BY
1-1-97	RENUM. C-104.01, NEW REVISION BOX	T. P.
4-20-98	REMOVED MILLING DETAIL FROM STD.	J. A.
9-08-98	CORRECT NOTE LEADER PLACEMENT	R. W.
10-16-06	REVISED TO 2007 SPEC.	M.A.

ILLINOIS DEPARTMENT OF TRANSPORTATION	
DISTRICT CADD STANDARD	
HOT MIX ASPHALT SURFACE REMOVAL (COLD MILLING)	
CADD STD NO. 440001-D4	
SCALE: NOT DRAWN TO SCALE	DRAWN BY CADD
DATE	CHECKED BY

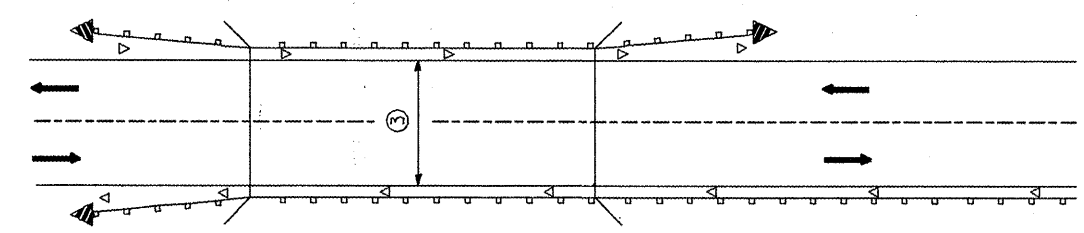
440001-D4

FAP	FAU	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
656	6757	D-4 STRUCTURE REPAIR 2008	TAZEWELL	33	28
IL 29	US 150	STA.	TO STA.		
FED. ROAD DIST. NO.		ILLINOIS	FED. AID PROJECT		



- ① Spacing 80 ft. (24 m) max. for first 400 ft. (122 m) or curve spacing shown in Standard 635001, whichever is less (min. 4 reflectors regardless of length).
- ② After 400 ft. (122 m), transition to normal delineator spacing shown in Standard 635001, and continue as required.

ONE-WAY TRAFFIC



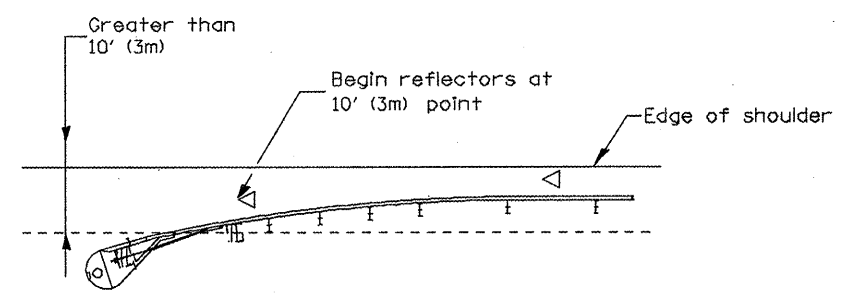
- ③ Bidirectional silver/silver should be used in lieu of monodirectional silver on both sides of two-lane bridges where the bridge pavement is less than 24 (610) wider than the pavement approaching the bridge.

TWO-WAY TRAFFIC

GUARDRAIL / BARRIER WALL / BRIDGE RAIL REFLECTORS

LEGEND

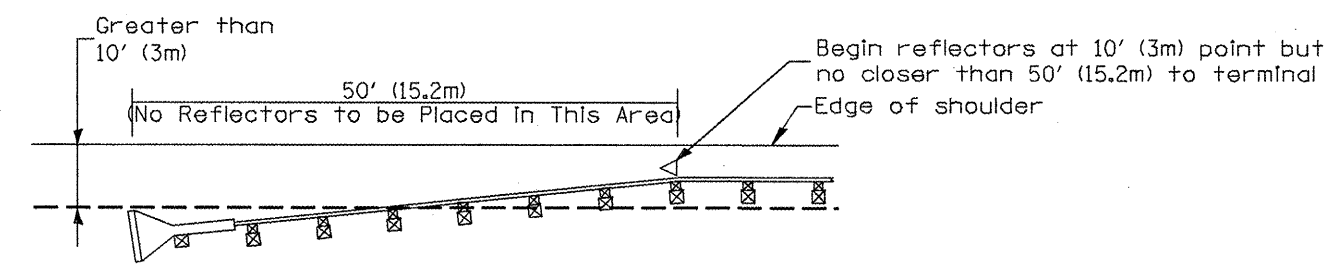
- ◁ Monodirectional silver
- ◄ Monodirectional amber
- ◄ Terminal Marker - Black/Yellow
Left or Right as appropriate



NOTE: Omit terminal marker when terminal over 10' (3m) from edge of paved shoulder or break point of unpaved shoulder, or when terminal buried in backslope.

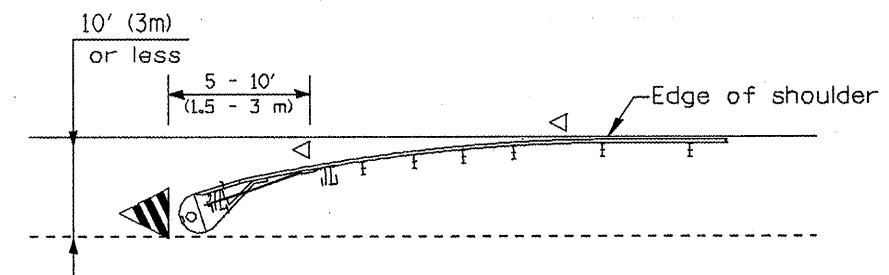
Traffic Barrier Terminal Type(*) and/or Turned-Down Terminal

[Terminal over 10' (3m) from edge of shoulder]
*See Plans for Type



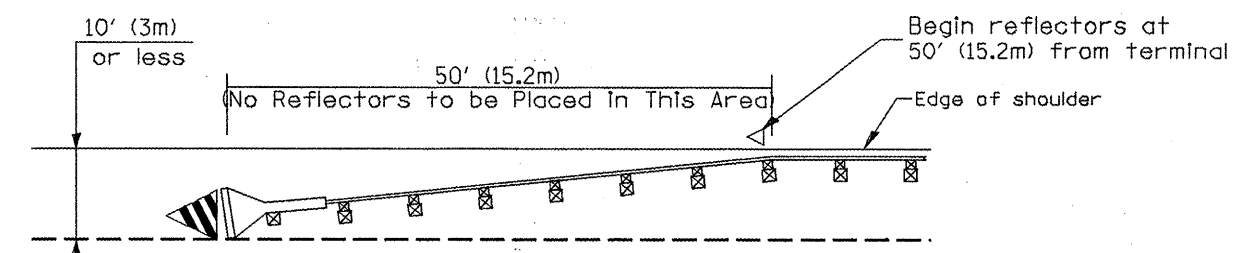
NOTE: Omit terminal marker when terminal over 10' from edge of paved shoulder or break point of unpaved shoulder.

Traffic Barrier Terminal Type 1 (Special)
[Terminal over 10' (3m) from edge of shoulder]



Traffic Barrier Terminal Type(*) and/or Turned-Down Terminal

[Terminal over 10' (3m) or less from edge of shoulder]
*See Plans for Type



Traffic Barrier Terminal Type 1 (Special)
[Terminal 10' (3m) or less from edge of shoulder]

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

**ILLINOIS DEPARTMENT OF TRANSPORTATION
DISTRICT CADD STANDARD**

**GUARDRAIL AND
BARRIER WALL DELINEATION**

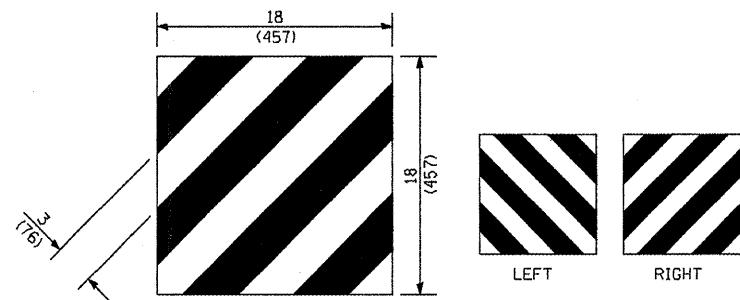
DATE	REVISIONS	BY
1-1-97	RENUM. E-10.02, NEW REVISION BOX	T.P.
3-1-97	CORRECT STD. SPEC. *	J.A.
10-16-06	REVISED TO 2007 SPEC.	M.A.

CADD STD. NO. 635101-04 SHEET 1 OF 3
DRAWN BY CADD
SCALE: NOT DRAWN TO SCALE CHECKED BY

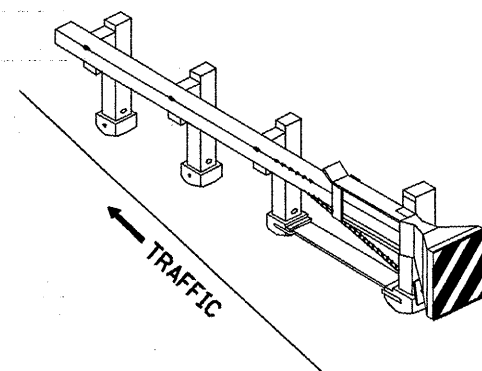
TERMINAL MARKER PLACEMENT

DESIGNER NOTE:
1. INCLUDE APPROPRIATE SPECIAL PROVISIONS FOR "GUARD RAIL DELINEATION POLICY: 1. TERMINAL MARKER, 2. TERMINAL MARK POST, AND 3. GUARDRAIL AND BARRIER WALL MARKERS."
FROM INTERIM SPECIAL PROVISIONS 94-74; "GUARDRAIL AND BARRIER WALL DELINEATION."
2. IF POST MOUNT TERMINAL MARKER IS USED, INCLUDE STATE STD. 720011.

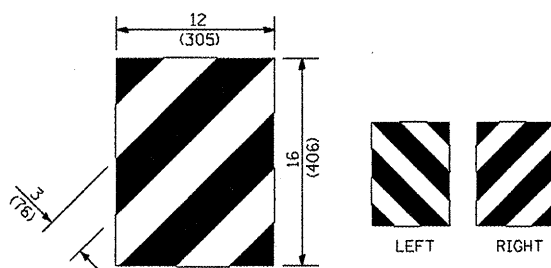
FAP	FAU	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
656	6757			33	29
IL. 29 US 150		STA.	TO STA.		
FED. ROAD DIST. NO.		ILLINOIS	FED. AID PROJECT		



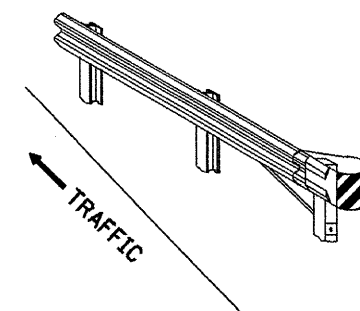
For Traffic Barrier Terminal Type 1 (Special)



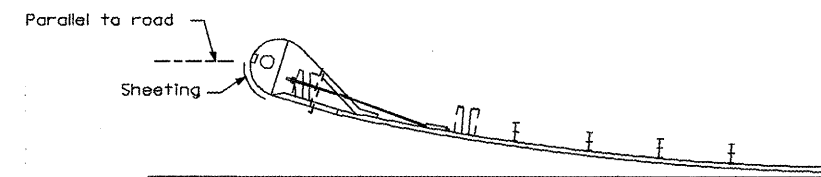
Standard Treatment - Direct Applied Sheetting
Traffic Barrier Terminal Type 1 (Special)



For Traffic Barrier Terminal Type (*)
and Post Mount
* See Plans for Type



Standard Treatment - Direct Applied Sheetting
Traffic Barrier Terminal Type (*)
* See Plans for Type



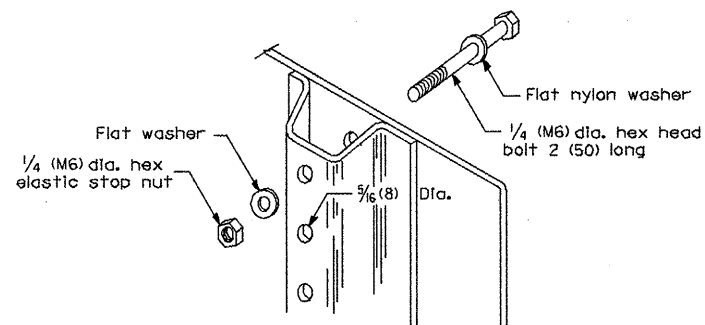
Sheeting Position for
Traffic Barrier Terminal Type (*)
* See Plans for Type

TERMINAL MARKER DETAILS

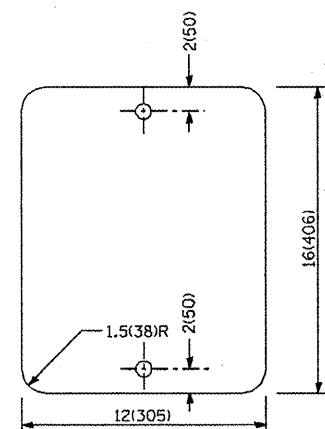
Color: Black / Yellow reflectorized

OM - I100 (L or R) Direct applied reflective sheeting

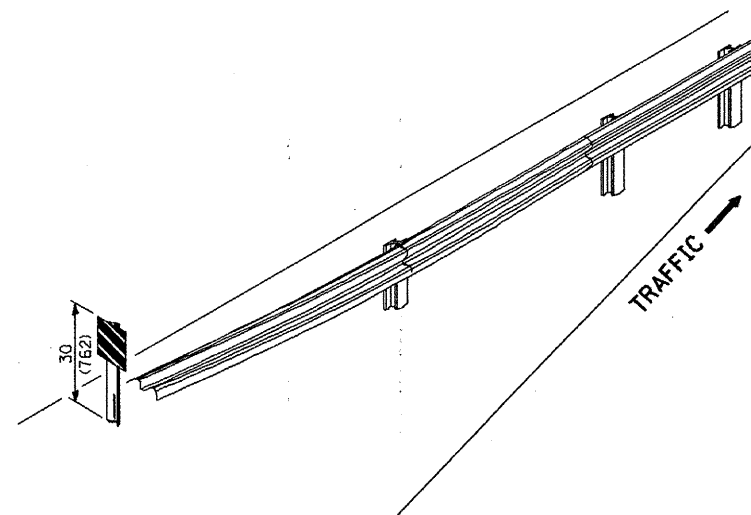
OM - I200 (L or R) Post mounted



DETAIL OF MOUNTING TERMINAL MARKER TO POST



STANDARD TERMINAL MARKER



ALTERNATE TREATMENT - POST MOUNTED
(For turned-down terminal where sheeting cannot be direct applied)

TERMINAL MARKER TREATMENTS

GENERAL NOTES

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

ILLINOIS DEPARTMENT OF TRANSPORTATION
DISTRICT CADD STANDARD

GUARDRAIL AND
BARRIER WALL DELINEATION

CADD STD. NO. 635101-D4

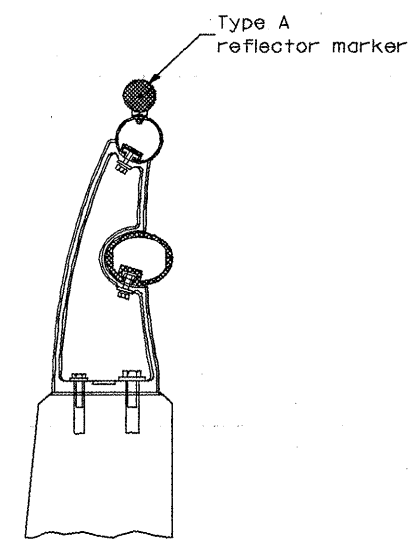
SHEET 2 OF 3

SCALE: NOT DRAWN TO SCALE

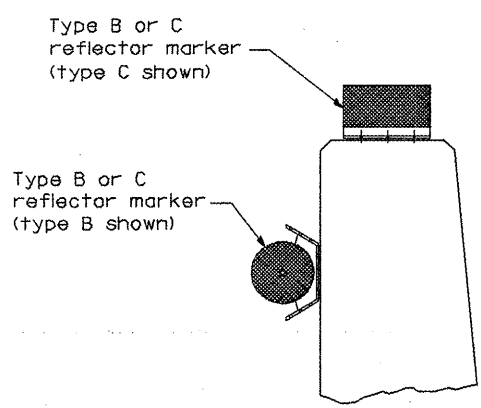
DRAWN BY CADD

CHECKED BY

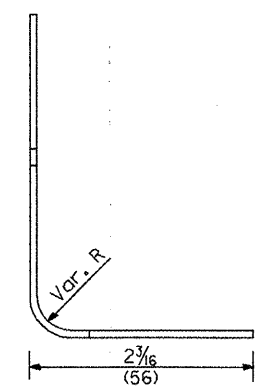
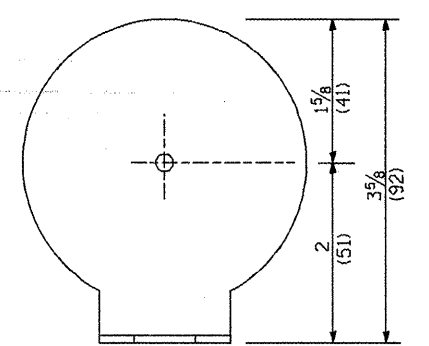
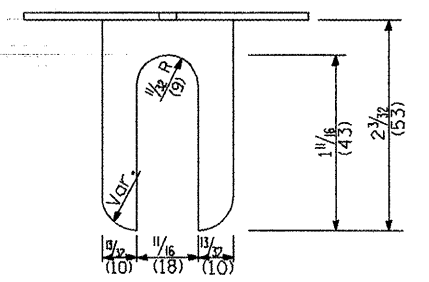
FAP	FAU	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
656	6757	D-4 STRUCTURE REPAIR 2008	TAZEWELL	33	30
IL 29	US 150	STA.	TO STA.		
FED. ROAD DIST. NO.		ILLINOIS FED. AID PROJECT			



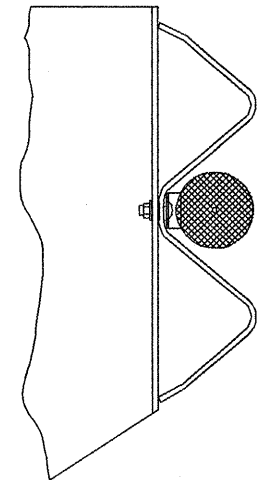
TYPICAL MOUNTING DETAIL FOR BRIDGE RAIL REFLECTOR



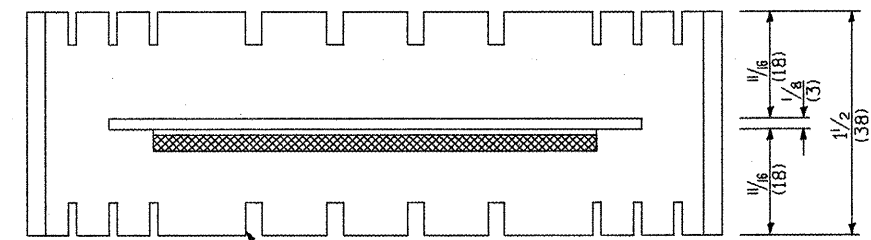
TYPICAL MOUNTING DETAIL FOR BARRIER WALL REFLECTOR



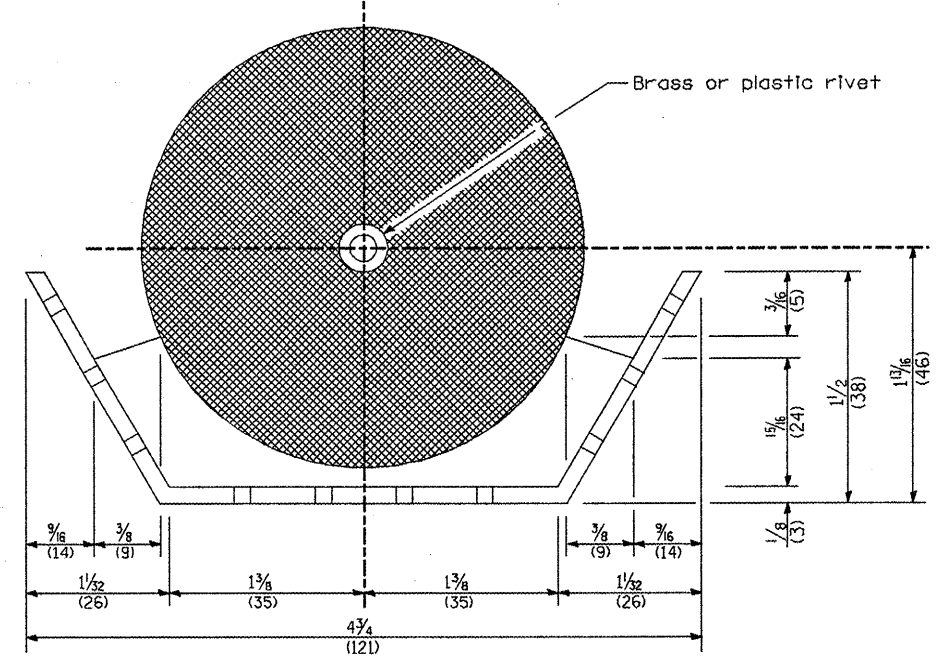
REFLECTOR MARKER TYPE A



TYPICAL GUARDRAIL MOUNTING WITH REFLECTOR MARKER TYPE A

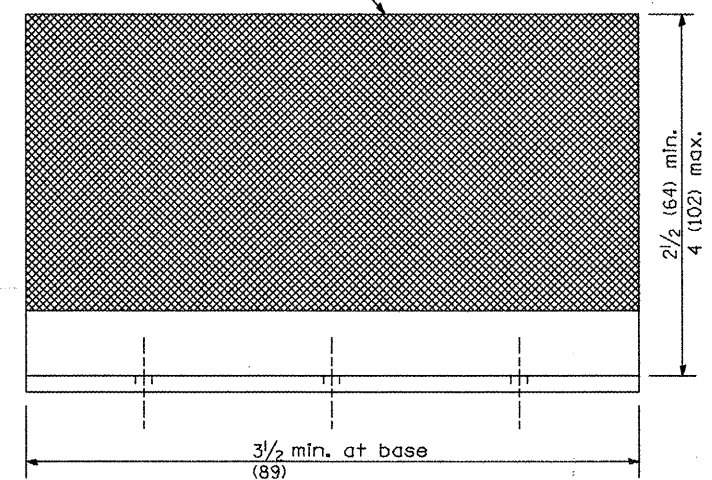


Adhesive weep slots or holes equally spaced on both sides

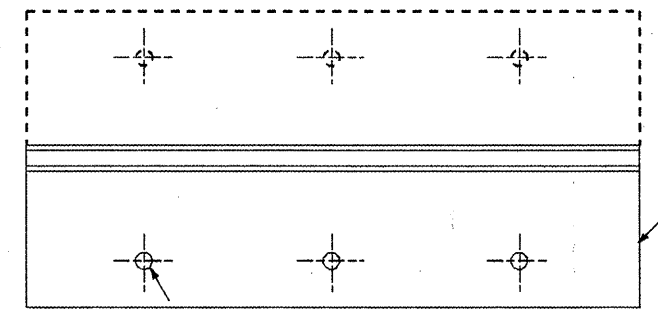


REFLECTOR MARKER TYPE B

Min. reflective area 6 1/2 sq. in. (4,194 mm²) each side. May be rectangular or slight trapezoid.

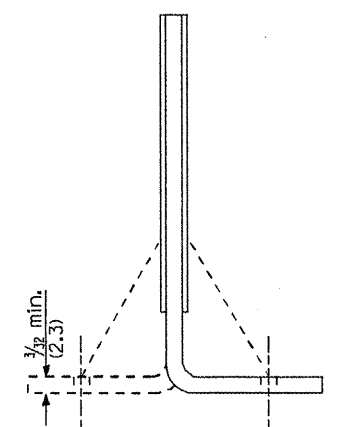


REFLECTOR MARKER TYPE C



3 min. adhesive weep holes or slots each side, variable spacing.

Minimum total area of base 7.0 Sq. in. (4,516 mm²)



Cross section may be "T" or "L" shaped and may have side supports at ends.

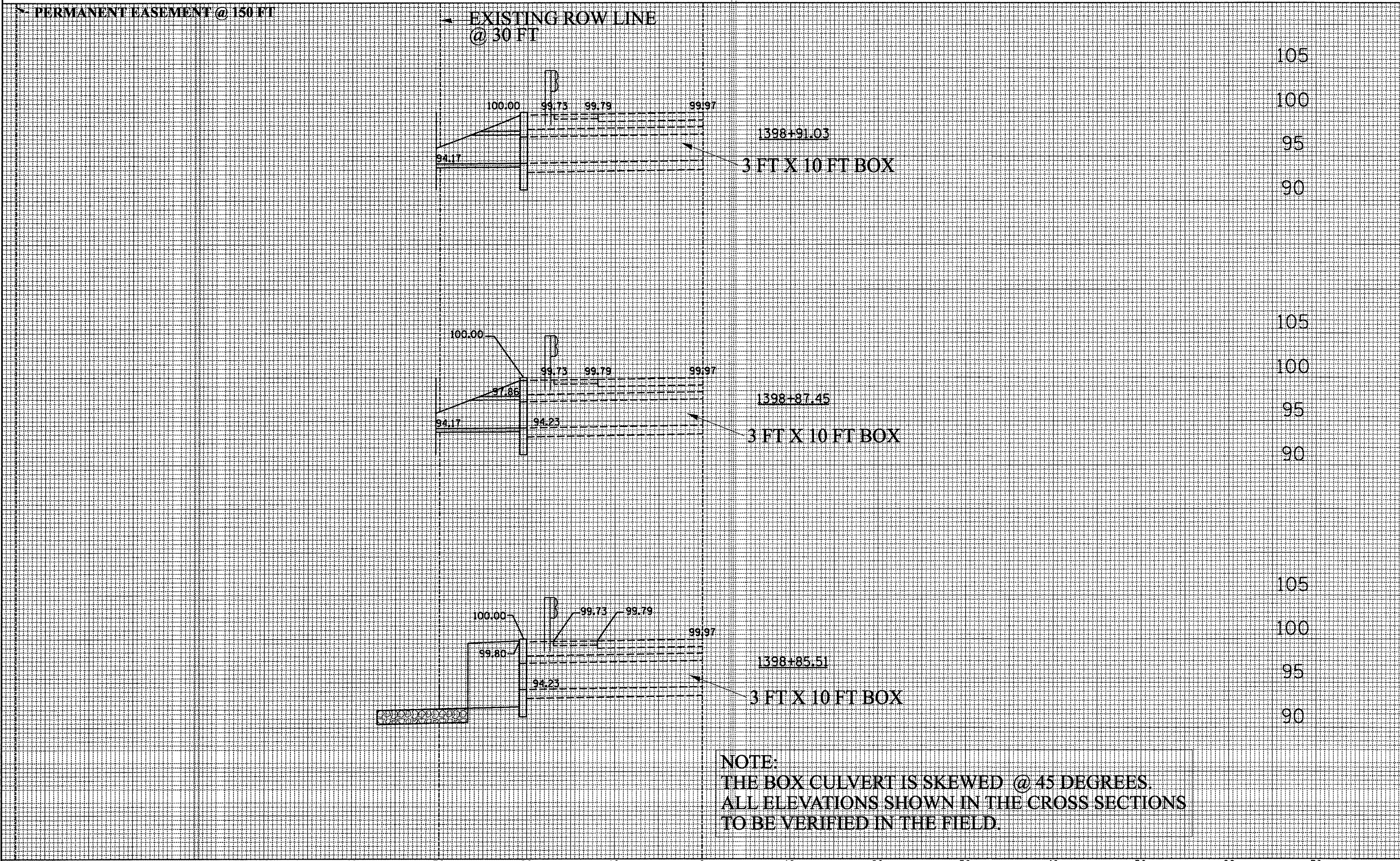
REFLECTORS

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

ILLINOIS DEPARTMENT OF TRANSPORTATION
 DISTRICT CADD STANDARD
 GUARDRAIL AND BARRIER WALL DELINEATION
 CADD STD. NO. 635101-D4 SHEET 3 OF 3
 SCALE: NOT DRAWN TO SCALE DRAWN BY CADD CHECKED BY

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

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



NOTE:
 THE BOX CULVERT IS SKEWED @ 45 DEGREES.
 ALL ELEVATIONS SHOWN IN THE CROSS SECTIONS
 TO BE VERIFIED IN THE FIELD.

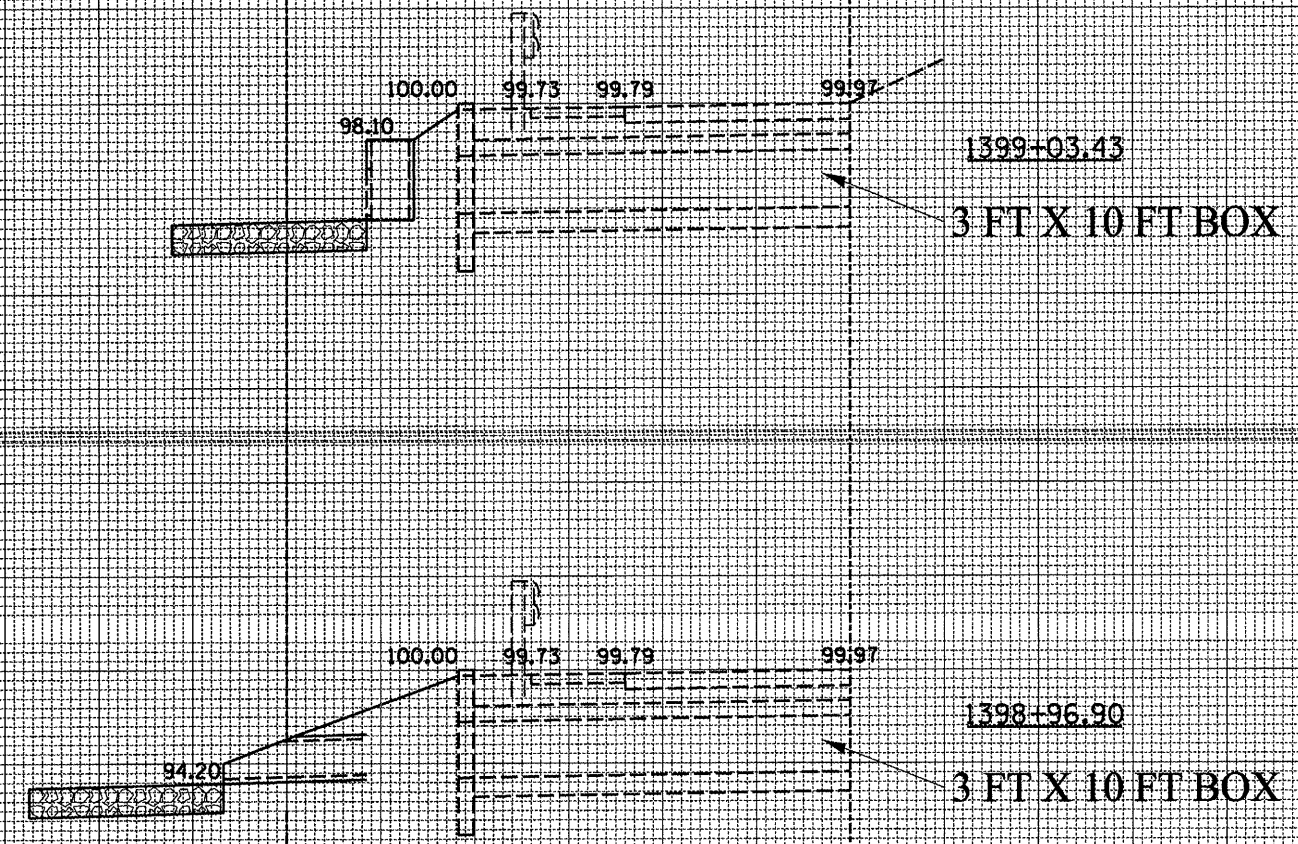
70	60	50	40	30	20	10	0	10	20	30	40	50	60	70			
STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION												CROSS SECTION- IL 29					
												FAP	FAU	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
												656	6757	D4 STRUCT. REPAIR 2008	TAZEWELL	32	31
												IL 29	US 150			CONTRACT NO. 68921	
												SCALE: SHEET NO. OF SHEETS STA. TO STA. FED. ROAD DIST. NO. ILLINOIS FED. AID PROJECT					

FINAL SURVEY	SURVEYED	DATE
NOTE BOOK	PLOTTED	BY
NO.	TEMPLATE	
	AREAS	
	CREATED	

ORIGINAL SURVEY	SURVEYED	DATE
NOTE BOOK	PLOTTED	BY
NO.	TEMPLATE	
	AREAS	
	CREATED	

PERMANENT EASEMENT @ 150 FT

EXISTING ROW LINE @ 30 FT



105
100
95
90
105
100
95
90

NOTE:
THE BOX CULVERT IS SKEWED @ 45 DEGREES.
ALL ELEVATIONS SHOWN IN THE CROSS SECTIONS
TO BE VERIFIED IN THE FIELD.

70 60 50 40 30 20 10 0 10 20 30 40 50 60 70

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

CROSS SECTION- IL 29

FAP	FAU	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
656	6757	D4 STRUCT. REPAIR 2008	TAZEWELL	32	32
IL 29	US 150			CONTRACT NO. 68921	

SCALE: SHEET NO. OF SHEETS STA. TO STA.

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