

74078

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
328	5R, Y, RS-1	CLAY	241	1
FED. ROAD DIST. NO. 7		ILLINOIS	FED. AID PROJECT	

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION
DIVISION OF HIGHWAYS

**PLANS FOR PROPOSED
FEDERAL HIGHWAY PROJECT**

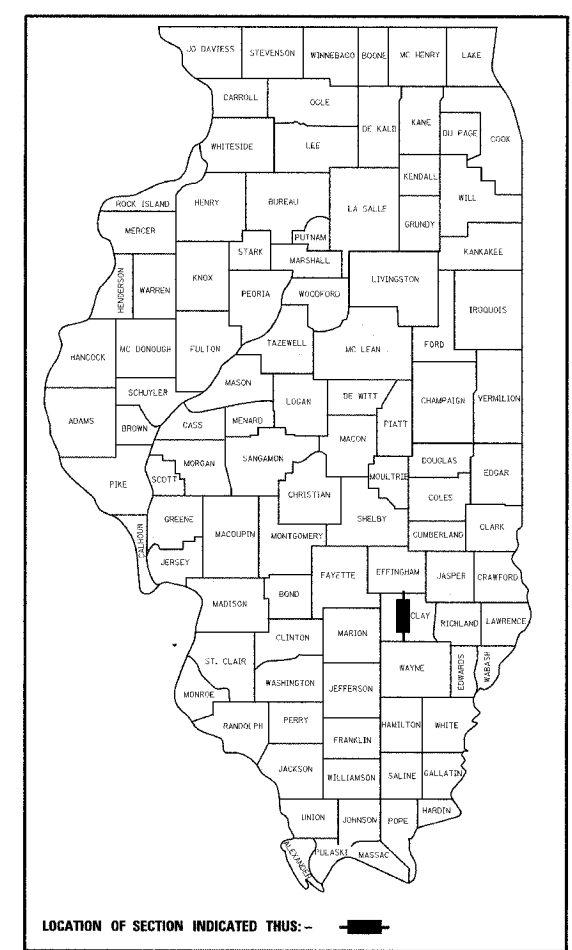
FAP 328 (US 45)
SECTION 5R, Y, RS-1
PROJECT NO. F-328(017)

PAVEMENT RECONSTRUCTION & RESURFACING
CLAY COUNTY

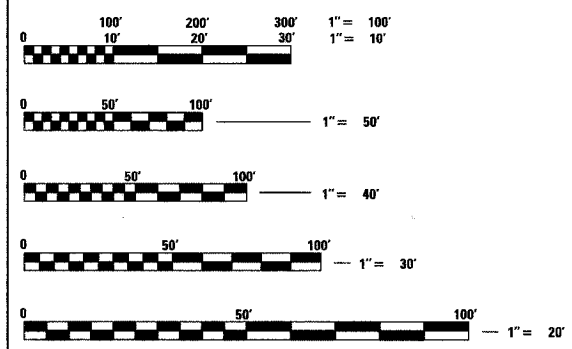
C-97-002-05

FOR INDEX OF SHEETS
SEE SHEET 2

2005 ADT = 3150
2005 MAX 8HR VOL = 2376
DESIGN DESIGNATION - 607 (22) RUR PRIN ART 3.81 (FD-20)



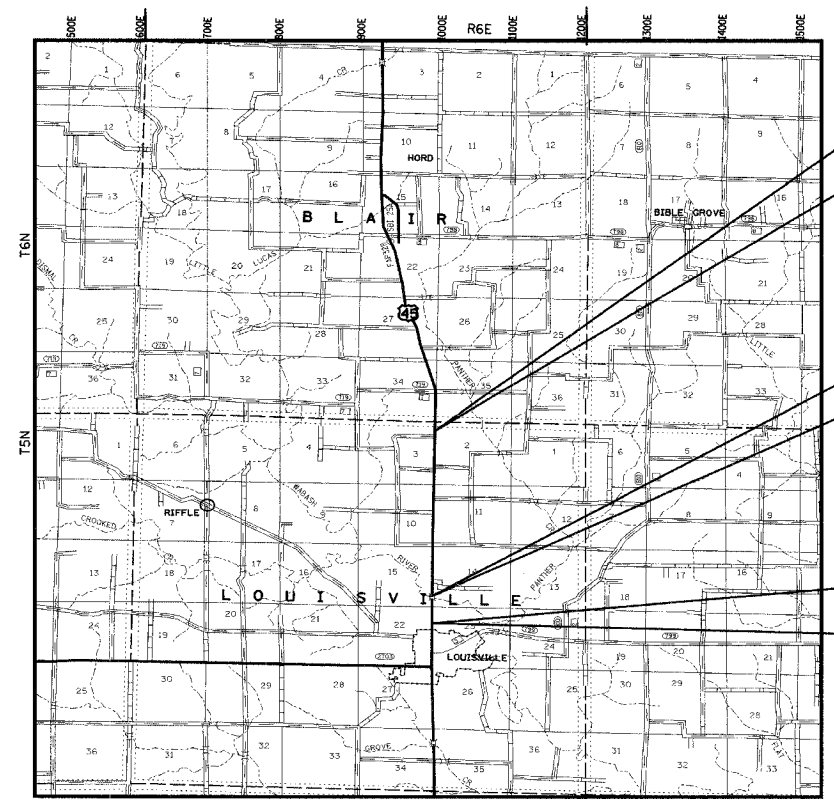
SCALES
PLAN: 1" = 50'
PROFILE HORIZ. 1" = 50'
PROFILE VERT. 1" = 5'
CROSS SECTIONS HORIZ. 1" = 10', VERT. 1" = 5'



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

CONTRACT NO. 74078



LOCATION MAP
BLAIR TWP
LOUISVILLE TWP
APPROX SCALE (MILES)

TOTAL LENGTH OF PROJECT = 16,850 FEET = 3.191 MILES
PAVING OMISSION = 735.67 FEET = 0.139 MILES
NET LENGTH (PAVING) = 16,114.33 FEET = 3.052 MILES

BEGIN CONSTRUCTION
STA. 1143 + 00.00

BRIDGE S.N. 013-0010
STA. 1277 + 47.11
STA. 1284 + 82.78

PAVING OMISSION

END CONSTRUCTION
STA. 1311 + 50.00

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION
DIVISION OF HIGHWAYS

SUBMITTED Oct 27 2005
Clinton M. Rosche
DEPUTY DIRECTOR OF HIGHWAYS
REGION FOUR ENGINEER

20

ENGINEER OF PROJECT DEVELOPMENT AND IMPLEMENTATION
December 9, 2005
Mike Hine
ENGINEER OF DESIGN AND ENVIRONMENT

December 9, 2005
Eric Haral
DEPUTY DIRECTOR, DIVISION OF HIGHWAYS

20

FHWA DIVISION ADMINISTRATOR



Mark A. Reitz
MARK A. REITZ P.E. #062-047531 DATE
LICENSE EXPIRES: 11-30-07
HURST-ROSCH ENGINEERS, INC.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
328	SR, Y, RS-1	CLAY	242	2
STA.		TO STA.		
FED. ROAD DIST. NO. 7		ILLINOIS	FED. AID PROJECT	
CONTRACT NO. 74078				

LIST OF STANDARDS

<u>STD NO</u>	<u>DESCRIPTION</u>
000001-04	ABBREVIATIONS AND SYMBOLS
001001	AREAS AND SPACING OF REINFORCEMENT BARS
202001	EARTH MEDIAN DITCH CHECK
280001-02	TEMPORARY EROSION CONTROL SYSTEMS
406201	MAILBOX TURNOUT
442201-01	CLASS C AND D PATCHES
482001	BITUMINOUS SHOULDER DETAILS - ADJACENT TO FLEXIBLE PAVEMENT
482011-01	BIT SHOULDER STRIPS/SHOULDERS /W RESURF OR WIDENING AND RESURF PROJECTS
542116	REINFORCED CONC END SECTIONS FOR MULTIPLE PIPE CULVERTS, 15" THRU 36"
542121	REINFORCED CONC END SECTIONS FOR MULTIPLE PIPE CULVERTS, 42" THRU 60"
542301	PRECAST REINFORCED CONCRETE FLARED END SECTIONS
542306	PRECAST REINFORCED CONCRETE ELLIPTICAL FLARED END SECTIONS
542311	GRATING FOR CONCRETE FLARED END SECTIONS 24" THRU 54"
542546	FLUSH INLET BOX
601001	SUB-SURFACE DRAINS
601101	CONCRETE HEADWALL FOR PIPE DRAINS
602301	INLET, TYPE A
602306	INLET, TYPE B
604036-01	GRATE, TYPE 8
604041-01	FRAME AND GRATE, TYPE 9
606001-02	CONCRETE CURB TYPE B AND COMBINATION CONCRETE CURB AND GUTTER
606101-01	TYPE A GUTTER (INLET, OUTLET AND ENTRANCE)
606401	PAVED DITCH
630001-05	STEEL PLATE BEAM GUARDRAIL
630301-03	SHOULDER WIDENING FOR TYPE 1 (SPECIAL) GUARDRAIL TERMINALS
631031-05	TRAFFIC BARRIER TERMINAL, TYPE 6
635006-02	REFLECTOR AND TERMINAL MARKER PLACEMENT
635011-01	REFLECTOR MARKER AND MOUNTING DETAILS
666001	RIGHT-OF-WAY MARKERS
667101	PERMANENT SURVEY MARKERS
668001	METHOD OF RESETTING US GEOLOGICAL SURVEY AND NATIONAL GEODETIC SURVEY BENCHMARKS
701006-02	OFF-ROAD OPERATIONS, 2L 2W, 15' TO PAVEMENT EDGE, FOR SPEEDS > 45MPH
701201-02	LANE CLOSURE, 2L, 2W, DAY ONLY, ON-ROAD TO 24" OFF-ROAD FOR SPEEDS > 45MPH
701301-02	LANE CLOSURE, 2L, 2W, SHORT TIME OPERATIONS
701306-01	LANE CLOSURE, 2L, 2W, SLOW MOVING DAY ONLY OPERATIONS, FOR SPEEDS > 45MPH
701321-08	LANE CLOSURE, 2L, 2W, BRIDGE REPAIR WITH BARRIER
701326-02	LANE CLOSURE, 2L, 2W, PAVEMENT WIDENING, FOR SPEEDS > 45MPH
701331-02	LANE CLOSURE, 2L, 2W, RUN-AROUND, FOR SPEEDS > 45MPH
701336-04	LANE CLOSURE, 2L, 2W, WORK AREAS IN SERIES, FOR SPEEDS > 45MPH
701501-03	URBAN LANE CLOSURE, 2L, 2W UNDIVIDED
702001-05	TRAFFIC CONTROL DEVICES
704001-02	TEMPORARY CONCRETE BARRIER
720001	SIGN PANEL MOUNTING DETAILS
720006	SIGN PANEL ERECTION DETAILS
720011	METAL POSTS (SIGNS, MARKERS AND DELINEATORS)
780001-01	TYPICAL PAVEMENT MARKINGS
781001-02	TYPICAL APPLICATIONS RAISED REFLECTIVE PAVEMENT MARKERS

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REVISIONS	
NAME	DATE

ILLINOIS DEPARTMENT OF TRANSPORTATION

INDEX OF SHEETS & STANDARDS

SCALE: NO SCALE
DATE: 10-21-05

DRAWN BY: UJ
CHECKED BY: MAR

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F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
328	5R, Y, RS-1	CLAY	242	4
STA.		TO STA.		
FED. ROAD DIST. NO. 7		ILLINOIS	FED. AID PROJECT	
CONTRACT NO. 74078				

MIXTURE REQUIREMENTS

The following mixture requirements are applicable for this project.

Location FAP328 (US45)

20 YR. ESAL'S:

MIXTURE USE	SURFACE COURSE, (1.5")	LEVEL BINDER, (0.75")	BIT SHOULDERS, 8"
APPLICATION	BIT CONC SURFACE COURSE, MIX C, N50	LEVEL BINDER MACHINE METHOD SUPERPAVE, N50	BITUMINOUS SHOULDERS
AC/PG	PG 64-22	PG 64-22	PG 58-22
RAP%(MAX)	15%	25%	30%
DESIGN AIR VOIDS	4%@Ndes=50	4%@Ndes=50	2%@Ndes=30
MIX COMPOSITION (GRADATION MIXTURE)	IL-9.5	IL-9.5	N/A
FRICITION AGG	MIXTURE C	N/A	N/A

Location FAP328 (US45)

20 YR. ESAL'S:

MIXTURE USE	BIT CONC PAVE, FULL-DEPTH, (BINDER LIFTS)	BIT CONC PAVE, FULL-DEPTH, (SURFACE LIFTS OF 2" THICKNESS)
APPLICATION	BIT CONC PAVE, FULL-DEPTH SUPERPAVE	BIT CONC PAVE, FULL-DEPTH SUPERPAVE
AC/PG	PG 64-22	PG 64-22
RAP%(MAX)	25%	15%
DESIGN AIR VOIDS	4%@Ndes=70	4%@Ndes=50
MIX COMPOSITION (GRADATION MIXTURE)	IL-19.0	IL-9.5
FRICITION AGG	N/A	MIXTURE C

Location SIDEROADS

20 YR. ESAL'S:

MIXTURE USE	SURFACE COURSE, (2")	BIT CONC BASE COURSE (8")
APPLICATION	BIT CONC SURFACE COURSE, MIX C, N50	BIT BASE COURSE, SUPERPAVE, (8")
AC/PG	PG 64-22	PG 64-22
RAP%(MAX)	15%	25%
DESIGN AIR VOIDS	4%@Ndes=50	2%@Ndes=50
MIX COMPOSITION (GRADATION MIXTURE)	IL-9.5	N/A
FRICITION AGG	MIXTURE C	N/A

Location DETOUR ROADS

20 YR. ESAL'S:

MIXTURE USE	SURFACE COURSE, (2")	BIT CONC BASE COURSE (7")
APPLICATION	BIT CONC SURFACE COURSE, MIX C, N50	BIT BASE COURSE, SUPERPAVE, (7")
AC/PG	PG 64-22	PG 64-22
RAP%(MAX)	15%	25%
DESIGN AIR VOIDS	4%@Ndes=50	4%@Ndes=70
MIX COMPOSITION (GRADATION MIXTURE)	IL-9.5	IL-19.0
FRICITION AGG	MIXTURE C	N/A

ENTRANCES

20 YR. ESAL'S:

MIXTURE USE	INCIDENTAL BIT SURFACING
APPLICATION	BIT CONC SURFACE COURSE, MIX C, N50
AC/PG	PG 64-22
RAP%(MAX)	15%
DESIGN AIR VOIDS	4%@Ndes=50
MIX COMPOSITION (GRADATION MIXTURE)	IL-9.5
FRICITION AGG	MIXTURE C

REVISIONS	
NAME	DATE

ILLINOIS DEPARTMENT OF TRANSPORTATION

MIXTURE REQUIREMENTS

SCALE: NO SCALE
DATE: 10-21-05

DRAWN BY: UJ
CHECKED BY: MAR

80% FEDERAL
20% STATE

CODE NO.	ITEM	UNITS	1000-24	1071-24	TOTAL
20100110	TREE REMOVAL (6 TO 15 UNITS DIAMETER)	UNITS	990	0	990
20100210	TREE REMOVAL (OVER 15 UNITS DIAMETER)	UNITS	2578	0	2578
20100500	TREE REMOVAL, ACRES	ACRE	3.1	0	3.1
20101000	TEMPORARY FENCE	FOOT	610	0	610
20200100	EARTH EXCAVATION	CU YD	44723	0	44723
20201200	REMOVAL AND DISPOSAL OF UNSUITABLE MATERIAL	CU YD	32106	0	32106
20300100	CHANNEL EXCAVATION	CU YD	199	0	199
20400100	BORROW EXCAVATION	CU YD	26940	0	26940
20700220	POROUS GRANULAR EMBANKMENT	CU YD	4097	0	4097
20800150	TRENCH BACKFILL	CU YD	186.3	0	186.3
21001000	GEOTECHNICAL FABRIC FOR GROUND STABILIZATION	SQ YD	2055	0	2055
21101505	TOPSOIL EXCAVATION AND PLACEMENT	CU YD	11350	0	11350
25000200	SEEDING, CLASS 2	ACRE	19.64	0	19.64
25000400	NITROGEN FERTILIZER NUTRIENT	POUND	1768	0	1768
25000500	PHOSPHORUS FERTILIZER NUTRIENT	POUND	1768	0	1768
25000600	POTASSIUM FERTILIZER NUTRIENT	POUND	1768	0	1768
25000700	AGRICULTURAL GROUND LIMESTONE	TON	39.3	0	39.3
25100105	MULCH, METHOD 1	ACRE	19.64	0	19.64
25100630	EROSION CONTROL BLANKET	SQ YD	11231	0	11231
28000250	TEMPORARY EROSION CONTROL SEEDING	POUND	3921	0	3921
28000300	TEMPORARY DITCH CHECKS	EACH	212	0	212
28000400	PERIMETER EROSION BARRIER	FOOT	10229	0	10229
28100105	STONE RIPRAP, CLASS A3	SQ YD	2060	0	2060
28100107	STONE RIPRAP, CLASS A4	SQ YD	872	0	872
28100109	STONE RIPRAP, CLASS A5	SQ YD	486	0	486
28200200	FILTER FABRIC	SQ YD	1358	0	1358
30200650	PROCESSING & MODIFIED SOILS 12"	SQ YD	4953	0	4953
30201500	LIME	TON	124.8	0	124.8
35101400	AGGREGATE BASE COURSE, TYPE B	TON	672	0	672
35400100	PORTLAND CEMENT CONCRETE BASE COURSE WIDENING 6"	SQ YD	1335	0	1335
40200800	AGGREGATE SURFACE COURSE, TYPE B	TON	880	0	880
40500300	BITUMINOUS MIXTURE COMPLETE	TON	52	0	52
40600100	BITUMINOUS MATERIALS (PRIME COAT)	GALLON	3123	0	3123
40600300	AGGREGATE (PRIME COAT)	TON	83	0	83
40600980	BITUMINOUS SURFACE REMOVAL - BUTT JOINT	SQ YD	578	0	578
40600990	TEMPORARY RAMP	SQ YD	553	0	553
42300400	PORTLAND CEMENT CONCRETE DRIVEWAY PAVEMENT, 8"	SQ YD	492	0	492
44000030	BITUMINOUS SURFACE REMOVAL (VARIABLE DEPTH)	SQ YD	41350	0	41350
44000100	PAVEMENT REMOVAL	SQ YD	9405	0	9405
44000400	GUTTER REMOVAL	FOOT	55	0	55
44000910	BITUMINOUS CONCRETE REMOVAL (DECK)	SQ YD	2599	0	2599
44200116	PAVEMENT PATCHING, TYPE I, 10 INCH	SQ YD	40	0	40
44200120	PAVEMENT PATCHING, TYPE II, 10 INCH	SQ YD	1076	0	1076

80% FEDERAL
20% STATE

CODE NO.	ITEM	UNITS	1000-24	1071-24	TOTAL
44200124	PAVEMENT PATCHING, TYPE III, 10 INCH	SQ YD	66	0	66
44200126	PAVEMENT PATCHING, TYPE IV, 10 INCH	SQ YD	907	0	907
48101600	AGGREGATE SHOULDERS, TYPE B, 8"	SQ YD	13759	0	13759
48202600	BITUMINOUS SHOULDERS SUPERPAVE 8"	SQ YD	10888	0	10888
50100300	REMOVAL OF EXISTING STRUCTURES NO. 1	EACH	1	0	1
50100400	REMOVAL OF EXISTING STRUCTURES NO. 2	EACH	1	0	1
50100500	REMOVAL OF EXISTING STRUCTURES NO. 3	EACH	1	0	1
50100600	REMOVAL OF EXISTING STRUCTURES NO. 4	EACH	1	0	1
50100700	REMOVAL OF EXISTING STRUCTURES NO. 5	EACH	1	0	1
50100800	REMOVAL OF EXISTING STRUCTURES NO. 6	EACH	1	0	1
50102400	CONCRETE REMOVAL	CU YD	22	0	22
50300160	NEOPRENE EXPANSION JOINT 4"	FOOT	0	69	69
50300255	CONCRETE SUPERSTRUCTURE	CU YD	0	23	23
50300260	BRIDGE DECK GROOVING	SQ YD	0	2480	2480
50300310	ELASTOMERIC BEARING ASSEMBLY, TYPE I	EACH	0	5	5
50300320	ELASTOMERIC BEARING ASSEMBLY, TYPE II	EACH	0	25	25
50300530	FLOOR DRAIN EXTENSIONS	EACH	0	4	4
50500405	FURNISHING AND ERECTING STRUCTURAL STEEL	POUND	0	5200	5200
50500715	JACK AND REMOVE EXISTING BEARINGS	EACH	0	30	30
50800205	REINFORCEMENT BARS, EPOXY COATED	POUND	0	3000	3000
51205200	TEMPORARY SHEET PILING	SQ FT	2636	0	2636
54001001	BOX CULVERT END SECTION, CULVERT NO. 1	EACH	2	0	2
54001002	BOX CULVERT END SECTION, CULVERT NO. 2	EACH	2	0	2
54001003	BOX CULVERT END SECTION, CULVERT NO. 3	EACH	1	0	1
54001004	BOX CULVERT END SECTION, CULVERT NO. 4	EACH	1	0	1
54001005	BOX CULVERT END SECTION, CULVERT NO. 5	EACH	1	0	1
54001006	BOX CULVERT END SECTION, CULVERT NO. 6	EACH	2	0	2
54001007	BOX CULVERT END SECTION, CULVERT NO. 7	EACH	2	0	2
54001008	BOX CULVERT END SECTION, CULVERT NO. 8	EACH	2	0	2
54001009	BOX CULVERT END SECTION, CULVERT NO. 9	EACH	2	0	2
54001010	BOX CULVERT END SECTION, CULVERT NO. 10	EACH	2	0	2
54001011	BOX CULVERT END SECTION, CULVERT NO. 11	EACH	2	0	2
54001012	BOX CULVERT END SECTION, CULVERT NO. 12	EACH	2	0	2
54001013	BOX CULVERT END SECTION, CULVERT NO. 13	EACH	2	0	2
54001014	BOX CULVERT END SECTION, CULVERT NO. 14	EACH	2	0	2
54010302	PRECAST CONCRETE BOX CULVERT 3' X 2'	FOOT	78	0	78
54010303	PRECAST CONCRETE BOX CULVERT 3' X 3'	FOOT	93	0	93
54010402	PRECAST CONCRETE BOX CULVERT 4' X 2'	FOOT	185	0	185
54010403	PRECAST CONCRETE BOX CULVERT 4' X 3'	FOOT	212	0	212
54010404	PRECAST CONCRETE BOX CULVERT 4' X 4'	FOOT	18	0	18
54010505	PRECAST CONCRETE BOX CULVERT 5' X 5'	FOOT	108	0	108
54010605	PRECAST CONCRETE BOX CULVERT 6' X 5'	FOOT	92	0	92
54010705	PRECAST CONCRETE BOX CULVERT 7' X 5'	FOOT	60	0	60

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
328	5R, Y, RS-1	CLAY	242	5
STA.		TO STA.		
FED. ROAD DIST. NO.		ILLINOIS	FED. AID PROJECT	
CONTRACT NO. 74078				

REVISIONS NAME	DATE

ILLINOIS DEPARTMENT OF TRANSPORTATION

SUMMARY OF QUANTITIES

SCALE: VERT. DRAWN BY: UJ
 HORIZ. CHECKED BY: MAR
 DATE: 10-21-05

80% FEDERAL
20% STATE

CODE NO.	ITEM	UNITS	1000-2A	1071-2A	TOTAL
54213450	END SECTIONS 15"	EACH	34	0	34
54213453	END SECTIONS 18"	EACH	12	0	12
54213459	END SECTIONS 24"	EACH	22	0	22
54213471	END SECTIONS 36"	EACH	4	0	4
54213660	PRECAST REINFORCED CONCRETE FLARED END SECTIONS 15"	EACH	2	0	2
54213675	PRECAST REINFORCED CONCRETE FLARED END SECTIONS 30"	EACH	1	0	1
54214509	PRECAST REINFORCED CONCRETE FLARED END SECTIONS, EQUIVALENT ROUND-SIZE 24"	EACH	4	0	4
54244405	FLUSH INLET BOX FOR MEDIAN, STANDARD 542546	EACH	2	0	2
54248510	CONCRETE COLLAR	CU YD	3.3	0	3.3
542A5479	PIPE CULVERTS, CLASS A, TYPE 1 EQUIVALENT ROUND-SIZE 24"	FOOT	84	0	84
542D0220	PIPE CULVERTS, CLASS D, TYPE 1 15"	FOOT	858	0	858
542D0223	PIPE CULVERTS, CLASS D, TYPE 1 18"	FOOT	301	0	301
542D0229	PIPE CULVERTS, CLASS D, TYPE 1 24"	FOOT	701	0	701
542D0241	PIPE CULVERTS, CLASS D, TYPE 1 36"	FOOT	119	0	119
5422D015	PIPE CULVERTS, CLASS D, TYPE 2 15" (TEMPORARY)	FOOT	42	0	42
5422D018	PIPE CULVERTS, CLASS D, TYPE 2 18" (TEMPORARY)	FOOT	150	0	150
5423D060	PIPE CULVERTS, CLASS D, TYPE 3 60" (TEMPORARY)	FOOT	50	0	50
550A0050	STORM SEWERS, CLASS A, TYPE 1 12"	FOOT	20	0	20
550A0070	STORM SEWERS, CLASS A, TYPE 1 15"	FOOT	48	0	48
550A0120	STORM SEWERS, CLASS A, TYPE 1 24"	FOOT	118	0	118
550A0140	STORM SEWERS, CLASS A, TYPE 1 30"	FOOT	183	0	183
550A0360	STORM SEWERS, CLASS A, TYPE 2 15"	FOOT	217	0	217
55101200	STORM SEWER REMOVAL 24"	FOOT	97	0	97
60100060	CONCRETE HEADWALL FOR PIPE DRAINS	EACH	4	0	4
60107600	PIPE UNDERDRAINS 4"	FOOT	1990	0	1990
60108100	PIPE UNDERDRAINS 4" (SPECIAL)	FOOT	52	0	52
60221000	MANHOLES, TYPE A, 5'-DIAMETER, TYPE 1 FRAME, OPEN LID	EACH	1	0	1
60221700	MANHOLES, TYPE A, 5'-DIAMETER, TYPE 8 GRATE	EACH	1	0	1
60235700	INLETS, TYPE A, TYPE 3 FRAME AND GRATE	EACH	1	0	1
60236200	INLETS, TYPE A, TYPE 8 GRATE	EACH	1	0	1
60236600	INLETS, TYPE A, TYPE 9 FRAME AND GRATE	EACH	1	0	1
60237470	INLETS, TYPE A, TYPE 24 FRAME AND GRATE	EACH	1	0	1
60240301	INLETS, TYPE B, TYPE 8 GRATE	EACH	1	0	1
60240303	INLETS, TYPE B, TYPE 9 FRAME AND GRATE	EACH	1	0	1
60600095	CLASS SI CONCRETE (OUTLET)	CU YD	9.6	0	9.6
60600605	CONCRETE CURB, TYPE B	FOOT	120	0	120
60602500	CONCRETE GUTTER, TYPE A	FOOT	569.5	0	569.5
60605100	COMBINATION CONCRETE CURB AND GUTTER, TYPE B-6.24 (ABUTTING EXIST PAVEMENT)	FOOT	301.4	0	301.4
* 63000000	STEEL PLATE BEAM GUARDRAIL, TYPE A	FOOT	400	0	400
* 63100085	TRAFFIC BARRIER TERMINAL, TYPE 6	EACH	4	0	4
* 63100169	TRAFFIC BARRIER TERMINAL, TYPE 1, SPECIAL, FLARED	EACH	4	0	4
63200310	GUARDRAIL REMOVAL	FOOT	1761	0	1761

* SPECIALTY ITEMS

80% FEDERAL
20% STATE

CODE NO.	ITEM	UNITS	1000-2A	1071-2A	TOTAL
66600105	FURNISHING AND ERECTING RIGHT-OF-WAY MARKERS	EACH	86	0	86
66700205	PERMANENT SURVEY MARKERS, TYPE I	EACH	7	0	7
67000400	ENGINEER'S FIELD OFFICE, TYPE A	CAL MO	24	0	24
67000600	ENGINEER'S FIELD LABORATORY	CAL MO	24	0	24
67100100	* MOBILIZATION	L SUM	1	0	1
70100200	TRAFFIC CONTROL AND PROTECTION, STANDARD 701331	EACH	1	0	1
70100405	TRAFFIC CONTROL AND PROTECTION, STANDARD 701321	EACH	5	0	5
70100460	TRAFFIC CONTROL AND PROTECTION, STANDARD 701306	L SUM	1	0	1
70100600	TRAFFIC CONTROL AND PROTECTION, STANDARD 701336	L SUM	1	0	1
70102620	TRAFFIC CONTROL AND PROTECTION, STANDARD 701501	L SUM	1	0	1
70103815	TRAFFIC CONTROL SURVEILLANCE	CAL DA	20	0	20
70106500	* TEMPORARY BRIDGE TRAFFIC SIGNALS	EACH	5	0	5
70106700	* TEMPORARY RUMBLE STRIP	EACH	30	0	30
70300100	SHORT-TERM PAVEMENT MARKING	FOOT	5725	0	5725
70300220	TEMPORARY PAVEMENT MARKING - LINE 4"	FOOT	55066	0	55066
70301000	WORK ZONE PAVEMENT MARKING REMOVAL	SQ FT	2532	0	2532
70400500	TEMPORARY CONCRETE BARRIER (STATE OWNED)	FOOT	3640	0	3640
70400600	RELOCATE TEMPORARY CONCRETE BARRIER (STATE OWNED)	FOOT	2470	0	2470
* 78001110	PAINT PAVEMENT MARKING - LINE 4"	FOOT	46500	0	46500
* 78100100	RAISED REFLECTIVE PAVEMENT MARKER	EACH	211	0	211
* 78200410	* GUARDRAIL MARKERS, TYPE A	EACH	16	0	16
* 78200530	* BARRIER WALL MARKERS, TYPE C	EACH	364	0	364
* 78201000	* TERMINAL MARKER - DIRECT APPLIED	EACH	4	0	4
X0301280	* PLUG EXISTING DRAINS	EACH	0	82	82
X0321100	* GEOTEXTILE RETAINING WALL	SQ FT	133	0	133
X0322194	* POLYMER MODIFIED PORTLAND CEMENT MORTAR	SQ FT	0	30	30
X0322871	* MAINTENANCE OF EROSION CONTROL SYSTEM	LSUM	1	0	1
X0323236	* TEMPORARY INLET	EACH	3	0	3
X0323557	BRIDGE JOINT SYSTEM EXPANSION, 1/2"	FOOT	0	75	75
X0323558	BRIDGE JOINT SYSTEM EXPANSION, 1/2"	FOOT	0	36	36
X0636700	* CLEANING AND PAINTING BEARINGS	EACH	0	40	40
X3550400	* BITUMINOUS BASE COURSE, SUPERPAVE, 7"	SQ YD	4738	0	4738
X3550500	* BITUMINOUS BASE COURSE, SUPERPAVE, 8"	SQ YD	1771	0	1771
X4021000	* TEMPORARY ACCESS (PRIVATE ENTRANCE)	EACH	6	0	6
X4066414	* BITUMINOUS CONCRETE SURFACE COURSE, SUPERPAVE, MIX "C", N50	TON	4222	0	4222
X4066765	* LEVELING BINDER (MACHINE METHOD), SUPERPAVE N50	TON	1737	0	1737
X4073151	* BITUMINOUS CONCRETE PAVEMENT (FULL-DEPTH), SUPERPAVE, 13 1/2"	SQ YD	4609	0	4609
X4080020	* INCIDENTAL BITUMINOUS SURFACING, SUPERPAVE, N50	TONS	235	0	235
50500715	GRACK AND REMOVE EXISTING BEARINGS	EACH	30	0	30
X6050700	REMOVE INLET BOX	EACH	1	0	1
XX005128	6TRIP SEAL EXPANSION JOINT ASSEMBLY	FOOT	70	70	70
Z0002600	BAR SPLICERS	EACH	0	54	54
Z0006110	* BRIDGE DECK MICROSILICA CONCRETE OVERLAY	SQ YD	0	2599	2599
Z0006202	* BRIDGE DECK SCARIFICATION (3/4 INCH)	SQ YD	0	2599	2599

REV.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
328	5R, Y, RS-1	CLAY	242	6
STA. TO STA.		ILLINOIS FED. AID PROJECT		
CONTRACT NO. 74078				

REVISIONS	
NAME	DATE

ILLINOIS DEPARTMENT OF TRANSPORTATION

SUMMARY OF QUANTITIES

SCALE: VERT. DRAWN BY: UJ
 HORIZ. CHECKED BY: MAR
 DATE: 10-21-05

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
328	SR, Y, RS-1	CLAY	242	7
STA.		TO STA.		
FED. ROAD DIST. NO.		ILLINOIS	FED. AID PROJECT	
CONTRACT NO. 74078				

80% FEDERAL
20% STATE

CODE NO.	ITEM	UNITS	2000-2A	2071-2A	TOTAL
Z0013798	CONSTRUCTION LAYOUT	L SUM	1	0	1
Z0016002	DECK SLAB REPAIR (FULL DEPTH, TYPE ID)	SQ YD	0	100	100
Z0016000	DECK SLAB REPAIR (PARTIAL)	SQ YD	0	500	500
Z0023900	FILLING EXISTING WELLS	EACH	1	0	1
Z0025500	FURNISHING AND INSTALLING PROPERTY MARKERS	EACH	7	0	7
Δ Z0030260	IMPACT ATTENUATORS, TEMPORARY (FULLY REDIRECTIVE NARROW), TEST LEVEL 3	EACH	26	0	26
Δ Z0030330	IMPACT ATTENUATORS, RELOCATE (FULLY REDIRECTIVE), TEST LEVEL 3	EACH	20	0	20
Z0076600	TRAINEES	HOURS	1000	0	1000
X5400503	PRECAST CONCRETE BOX CULVERT 3' X 3' (TEMPORARY)	FOOT	6	0	6
X5400504	PRECAST CONCRETE BOX CULVERT 4' X 2' (TEMPORARY)	FOOT	6	0	6
X5400505	PRECAST CONCRETE BOX CULVERT 5' X 5' (TEMPORARY)	FOOT	4	0	4
X5400506	PRECAST CONCRETE BOX CULVERT 6' X 5' (TEMPORARY)	FOOT	6	0	6
X0324074	SPECIAL DROP INLET NO. 1	EACH	1	0	1
X0324075	SPECIAL DROP INLET NO. 2	EACH	1	0	1
X0324076	SPECIAL DROP INLET NO. 3	EACH	1	0	1

Δ SFTY-3N
© Y080

REVISIONS	
NAME	DATE

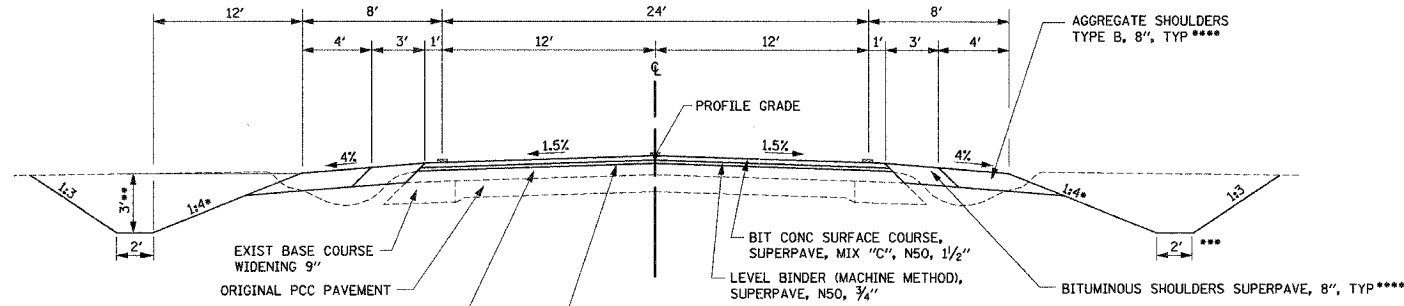
ILLINOIS DEPARTMENT OF TRANSPORTATION

SUMMARY OF QUANTITIES

SCALE: VERT. DRAWN BY: UJ
 HORIZ. CHECKED BY: MAR
 DATE: 10-21-05

11/15/05 11:35 AM

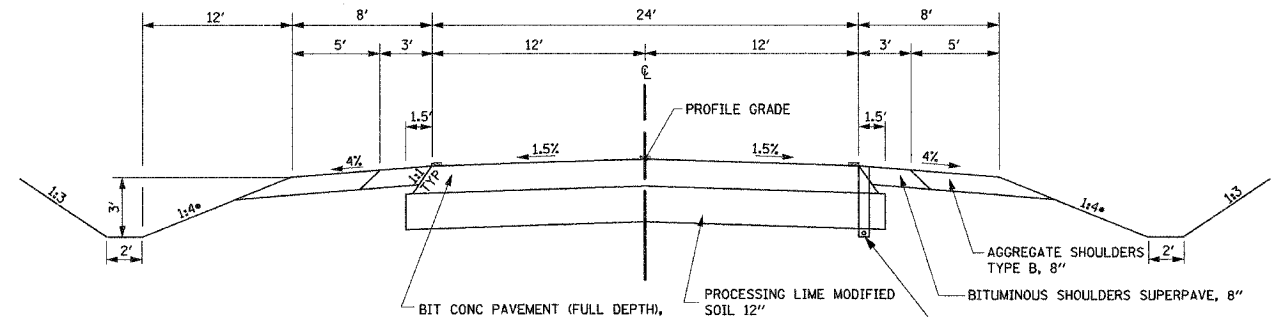
F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
328	5R, Y, RS-1	CLAY	242	8
STA.		TO STA.		
FED. ROAD DIST. NO. 7		ILLINOIS FED. AID PROJECT		
CONTRACT NO. 74078				



- * 1:3 FOR SLOPE IN AREAS OF WETLAND ENCROACHMENT.
- ** SEE PLANS FOR SPECIAL DITCH ELEVATIONS.
- *** FROM STA 1170+00 TO STA 1204+00 USE 4' WIDE DITCH
- **** SEE CURB AND GUTTER DETAIL THIS SHEET STA 1308+75 TO STA 1311+70 RT.
- ***** SEE BUTT JOINT DETAIL
- ***** RIPRAP CLASS A3 WITH FILTER FABRIC IS USED AT STATIONS 1263+00.88 TO 1277+00 RT BELOW ELEVATION 452.00 FT.

**FAP RTE 328 (US45)
PROP TYPICAL TANGENT SECTION**

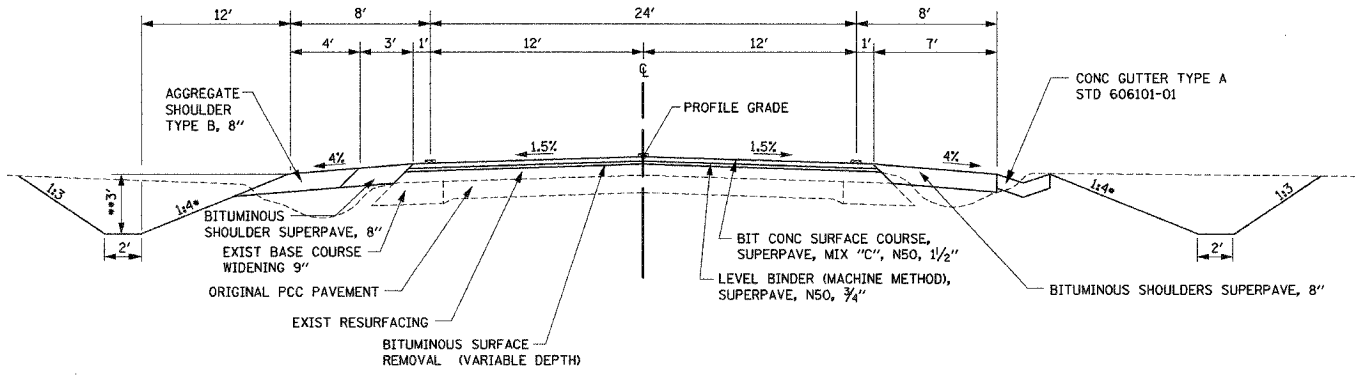
STA 1143+50.00 TO STA 1231+00.00
STA 1237+00.00 TO STA 1246+50.00
STA 1263+00.88 TO STA 1276+97.11*****
STA 1285+32.78 TO STA 1311+00.00*****



- * 1:3 FORESLOPE IN AREAS OF WETLAND ENCROACHMENT.
- RIPRAP CLASS A3 WITH FILTER FABRIC IS USED AT STATIONS 1261+00 TO 1263+00.88 RT BELOW ELEVATION 452.00 FT.

**FAP RTE 328 (US45)
PROP TYPICAL TANGENT SECTION**

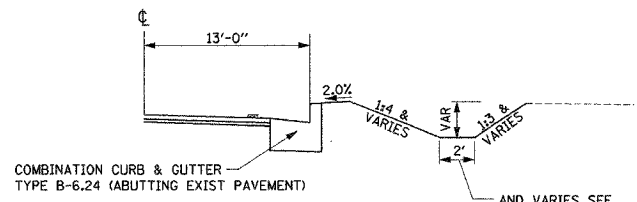
STA 1246+50.00 TO STA 1263+00.88**



- * 1:3 FOR SLOPE IN AREAS OF WETLAND ENCROACHMENT.
- ** SEE PLANS FOR SPECIAL DITCH ELEVATIONS.

**FAP RTE 328 (US45)
PROP TYPICAL TANGENT SECTION
WITH CONCRETE GUTTER**

STA 1231+00.00 TO STA 1237+00.00



CURB & GUTTER

STA 1308+75 TO STA 1311+70 RT

FAP RTE 328 (US45)

STRUCTURAL PAVEMENT DESIGN DATA

STRUCTURAL DESIGN TRAFFIC:	YEAR	2012
PV=	SU=	MU=
4025	128	256
ROAD/STREET CLASSIFICATION:	CLASS	II
PERCENT OF STRUCTURAL DESIGN TRAFFIC IN DESIGN LANE:		
P=	S=	M=
50	50	50
TRAFFIC FACTOR:	ACTUAL TF=	1.14
MINIMUM TF=	AC TYPE=	AC-20
3.81		
SUBGRADE SUPPORT RATING:		
SSR=	POOR	(STA 1143+50 TO 1311+50)
USE: BIT CONC PAVEMENT, (FULL DEPTH), SUPERPAVE, 13 1/2" PROCESSING LIME MODIFIED SOIL 12"		

REVISIONS	
NAME	DATE

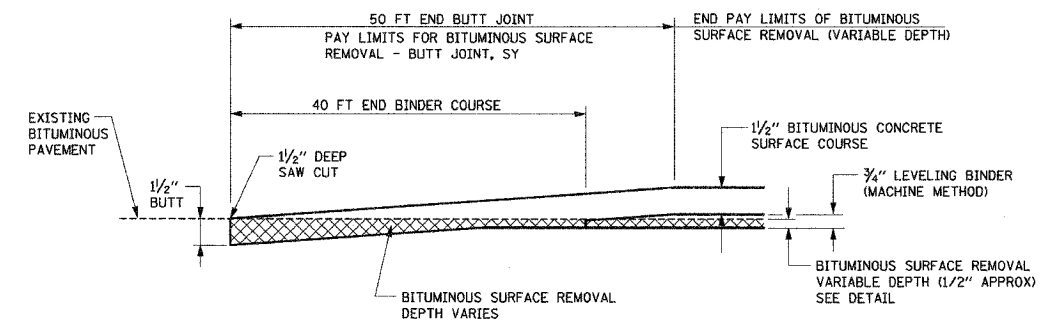
ILLINOIS DEPARTMENT OF TRANSPORTATION

**TYPICAL
SECTIONS**

SCALE: NO SCALE
DATE: 10-21-05

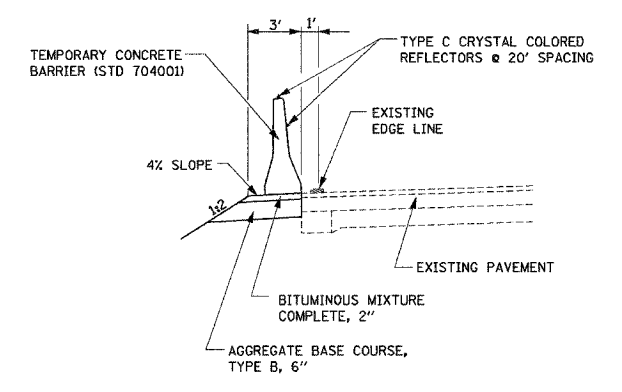
DRAWN BY: UJ
CHECKED BY: MAR

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
328	SR, Y, RS-1	CLAY	242	10
STA.		TO STA.		
FED. ROAD DIST. NO. 7		ILLINOIS	FED. AID PROJECT	
CONTRACT NO. 74078				



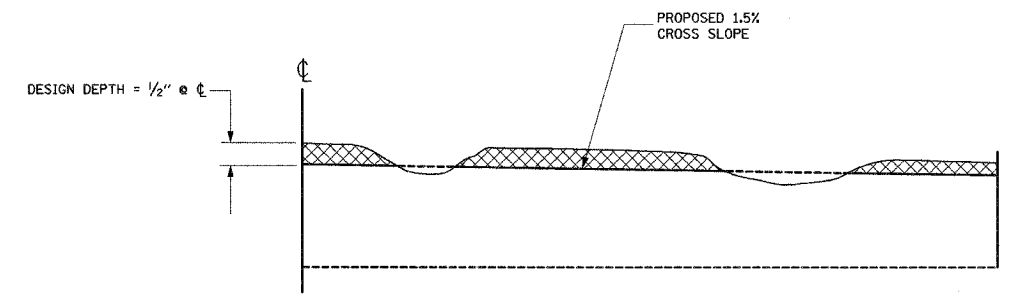
BUTT JOINT DETAIL

STA 1143+00.00 TO STA 1143+50.00
 STA 1276+97.11 TO STA 1277+47.11
 STA 1284+82.78 TO STA 1285+32.78
 STA 1311+00.00 TO STA 1311+50.00



TYPICAL SECTION

TEMPORARY CONCRETE BARRIER ADJACENT TO EXISTING OR DETOUR PAVEMENT



DETAIL OF BITUMINOUS SURFACE REMOVAL (VARIABLE DEPTH)

AREA MILLED

NOTES:

- MILLING SHALL BE DONE TO ATTAIN A 1.5% SLOPE IN CROWN SECTIONS.
- EXISTING S.E. AND S.E. TRANSITIONS SHALL BE MAINTAINED UNLESS OTHERWISE SHOWN ON THE PLANS.
- MILLING TO THE BOTTOM OF WHEEL RUTS SHALL NOT BE NECESSARY UNLESS REQUIRED TO OBTAIN SLOPE OR THE DESIGN DEPTH AT CENTERLINE.

REVISIONS	
NAME	DATE

ILLINOIS DEPARTMENT OF TRANSPORTATION

TYPICAL SECTIONS

SCALE: NO SCALE
DATE: 10-21-05

DRAWN BY: UJ
CHECKED BY: MAR

FURNISHING AND ERECTING RIGHT-OF-WAY MARKERS			
US 45	LT/RT	OFFSET (ft)	EACH
1143+60.00	RT	80	1
1143+81.53	RT	80	1
1144+21.55	RT	80	1
1144+40.00	RT	80	1
1144+60.00	RT	60	1
1152+03.23	RT	60	1
1152+03.39	LT	60	1
1157+96.67	RT	60	1
1157+97.06	LT	60	1
1166+90.00	LT	60	1
1167+10.00	LT	80	1
1167+31.08	LT	80	1
1167+71.12	LT	80	1
1167+90.00	LT	80	1
1168+10.00	LT	60	1
1169+50.00	RT	60	1
1169+70.00	RT	80	1
1169+89.27	RT	80	1
1170+29.37	RT	80	1
1170+50.00	RT	80	1
1170+75.00	RT	60	1
1196+40.00	LT	60	1
1196+60.00	LT	80	1
1196+60.00	LT	250	1
1196+93.71	LT	250	1
1197+33.73	LT	250	1
1197+60.00	LT	250	1
1197+60.00	LT	80	1
1197+80.00	LT	60	1
1203+83.23	RT	60	1
1203+93.96	LT	60	1
1210+00.00	RT	60	1
1210+20.00	RT	70	1
1210+29.15	RT	70	1
1210+69.24	RT	70	1
1210+95.00	RT	70	1
1211+15.00	RT	50	1
1215+09.38	LT	60	1
1220+00.00	RT	120	1
1220+50.00	RT	50	1
1220+50.00	RT	50	1
1220+50.00	LT	60	1
1221+00.00	RT	120	1
1221+00.00	LT	120	1
1221+15.46	LT	180	1
1222+00.00	LT	80	1
1222+50.00	LT	60	1
1231+00.00	RT	50	1
1231+50.00	RT	30	1
1236+75.00	RT	30	1
1236+80.00	LT	60	1
1237+00.00	LT	80	1
1237+00.00	LT	215	1
1237+17.12	RT	80	1
1237+28.00	LT	215	1
1237+57.15	RT	80	1
1237+68.02	LT	215	1
1237+75.00	RT	60	1
1237+85.00	LT	215	1
1237+85.00	LT	80	1
1238+00.00	LT	60	1
1245+00.00	RT	60	1
1246+00.00	RT	70	1
1248+00.00	LT	100	1
1249+00.00	LT	125	1
1250+00.00	LT	125	1
1250+00.00	RT	70	1
1250+87.52	LT	75	1
1251+00.00	RT	65	1
1264+29.39	RT	65	1
1291+09.25	LT	50	1
1291+25.12	RT	60	1
1300+00.00	LT	50	1
1301+00.00	LT	60	1
1303+50.00	LT	60	1
1303+50.00	RT	60	1
1304+00.00	LT	80	1
1304+00.00	RT	80	1
1305+00.00	LT	80	1
1305+00.00	RT	80	1

FURNISHING AND ERECTING RIGHT-OF-WAY MARKERS			
US 45	LT/RT	OFFSET (ft)	EACH
1305+50.00	LT	50	1
1305+50.00	RT	60	1
1307+56.90	RT	60	1
1307+57.94	RT	30	1
1311+45.00	LT	50	1
1311+48.49	LT	30	1
TOTAL			86

RIPRAP AND FILTER FABRIC							
	Length	Width	Riprap Area (yd ³)			Filter Fabric	
			A-3	A-4	A-5		
<i>Culverts</i>							
1 (US)	14	15			23.0	23.0	
1 (DS)	22	15		36.7		36.7	
2 (US)	36	25		98.6		98.6	
2 (DS)	35	25		97.2		97.2	
3 (US)							
3 (DS)	57	25			158.0	158.0	
4 (US)							
4 (DS)	17	15		28.0		28.0	
5 (US)							
5 (MEDIAN)	10	10		11.0		11.0	
5 (DS)	12	20	5.0	26.7		26.7	
6 (US)							
6 (DS)	30	25			83.0	83.0	
Pipe Culvert 1261+00 LT				5.0		5.0	
Pipe Culvert 1262+00 LT				6.0		6.0	
<i>Roadside Ditches</i>							
1202+02 to 1202+41 RT	39	20		87.0		87.0	
1237+65 to 1237+95 LT	30	10		33.0		33.0	
1259+81 to 1261+14 RT	134	10		149.0		149.0	
1304+00 to 1305+00 RT	100	20			222.0	222.0	
1305+60 to 1305+80 RT	20	20		44.0		44.0	
<i>Wetland Areas</i>							
1260+60 to 1277+50 RT				2055.2		2055.2	
<i>Riprap as Directed by Engineer</i>				250.0		250.0	
Grand Totals				2060	872	486	1358

FURNISHING AND INSTALLING PROPERTY MARKERS LOCATIONS						
North	East	Station	Offset*	Type	Description	Each
783,650.65	934,407.39	1156+64.44	1.19	Iron Pln	E/4 Cor 3-4N-6E	1
783,142.35	934,379.96	1161+72.55	31.05	Iron Pipe	Property Corner	1
780,949.53	934,427.88	1183+65.64	-2.7	Iron Pln	NE Cor 10-4N-6E	1
778,257.47	934,432.70	1210+57.72	1.68	Iron Pln	E/4 Cor 10-4N-6E	1
775,577.07	934,437.49	1237+38.13	-0.61	PK Nail	SE Cor 10-4N-6E	1
772,883.42	934,438.69	1264+31.86	8.43	PK Nail	E/4 Cor 15-4N-6E	1
770,207.24	934,439.52	1291+08.02	-2.95	PK Nail	NE Cor 22-4N-6E	1
TOTAL						7

* (+) right and (-) left

GEOTEXTILE RETAINING WALL					
Sta	Base Reinf	Wraps	Base of Each Wrap Above Culv		Area (sq ft)
1158+80.50	4.5'	1	0.0		6
1204+41.00	4.5'	1	0.0		10
1221+20.00	7'	4	0.0, 2.0, 4.0, 6.0		58
1245+00.00	7'	4	0.0, 2.0, 4.0, 6.0		59
TOTAL					133

REMOVE INLET BOX		
U.S. 45	OFFSET	EACH
1310+22.57	19.44 RT	1
TOTAL		1

PIPE UNDERDRAINS 4" (SPECIAL)		
US 45		FOOT
1255+00.00 Lt		13
1260+00.00 Lt		13
1255+00.00 Rt		13
1260+00.00 Rt		13
TOTAL		52

PIPE UNDERDRAINS 4"		
US 45		FOOT
1250+00.00 to 1255+00.00	Lt	500
1255+05.00 to 1260+00.00	Lt	495
1250+00.00 to 1255+00.00	Rt	500
1255+05.00 to 1260+00.00	Rt	495
TOTAL		1990

CONCRETE HEADWALL FOR PIPE DRAINS		
US 45		EACH
1255+00.00		2
1260+00.00		2
TOTAL		4

PERMANENT SURVEY MARKERS, TYPE I		
LOCATION		EACH
1152+03.23		1
1157+96.67		1
1197+96.67		1
1214+00.20		1
1256+00.15		1
1289+00.00		1
1311+50.00		1
TOTAL		7

BARRIER WALL MARKERS, TYPE C			
LOCATION	OFFSET	STAGE	EACH
<i>U.S. 45</i>			
1255+00.00 to 1259+00.00	12' LT	2-A	40
<i>Stage Construction of Culverts</i>			
1158+30.00 to 1158+80.00	LT	1-A	5
1157+60.00 to 1160+00.00	CL	1-A	24
1203+21.00 to 1205+61.00	CL	1-A	24
1220+70.00 to 1221+70.00	LT	1-A	10
1220+00.00 to 1222+40.00	CL	1-A	24
1244+50.00 to 1245+50.00	LT	1-A	10
1243+80.00 to 1246+20.00	CL	1-A	24
<i>Bridge over Little Wabash River</i>			
1276+75.00 to 1285+55.00	CL	1-D, 2-E	88
<i>Detour 1</i>			
1248+50.00 to 1250+00.00	LT	1-B	15
1249+00.00 to 1250+00.00	RT	1-B	10
1255+00.00 to 1261+00.00	RT	1-B	60
1260+00.00 to 1263+00.00	LT	1-B	30
Total			364

BITUMINOUS SURFACE REMOVAL - BUTT JOINT			
LOCATION	Length (ft)	Width (ft)	SQ YD
1143+00.00 to 1143+50.00	50	26	144.4
1276+97.11 to 1277+47.11	50	26	144.4
1284+82.78 to 1285+32.78	50	26	144.4
1311+00.00 to 1311+50.00	50	26	144.4
Total			578

REVISIONS	
NAME	DATE

ILLINOIS DEPARTMENT OF TRANSPORTATION

SCHEDULE OF QUANTITIES

SCALE: VERT. HORIZ. DATE: 10-21-05 DRAWN BY: LJJ CHECKED BY: MAR

TEMPORARY RUMBLE STRIP		
LOCATION		EACH
Stage Const Box Culvert Sta 1158+80.50		
1138+37.00	RT	1
1143+37.00	RT	1
1148+37.00	RT	1
1169+29.00	LT	1
1174+29.00	LT	1
1179+29.00	LT	1
Stage Const Box Culvert Sta 1204+41		
1184+24.00	RT	1
1189+24.00	RT	1
1194+24.00	RT	1
1214+58.00	LT	1
1219+58.00	LT	1
1224+58.00	LT	1
Stage Const Box Culvert Sta 1221+20		
1200+74.00	RT	1
1205+74.00	RT	1
1210+74.00	RT	1
1231+65.00	LT	1
1236+65.00	LT	1
1241+65.00	LT	1
Stage Const Box Culvert Sta 1245+00		
1224+54.00	RT	1
1229+54.00	RT	1
1234+54.00	RT	1
1255+45.00	LT	1
1260+45.00	LT	1
1265+45.00	LT	1
Bridge over Little Wabash River		
1267+75.00	RT	1
1262+75.00	RT	1
1257+75.00	RT	1
1294+55.00	LT	1
1299+55.00	LT	1
1304+55.00	LT	1
TOTAL		30

SHORT-TERM PAVEMENT MARKING			
U.S. 45	NO. OF APPLICATIONS	FOOT	
1143+00.00 to 1246+50.00	4	4140	
1263+00.88 to 1276+97.11	4	558	
1285+32.78 to 1311+00.00	4	1027	
TOTAL		5725	

TEMPORARY CONCRETE BARRIER (STATE OWNED)				
U.S. 45	Stage	Foot		
1255+00.00 to 1259+00.00	12' LT	2-A	400	
Stage Construction of Culverts				
1158+30.00 to 1158+80.00	LT	1-A	50	
1157+60.00 to 1160+00.00	CL	1-A	240	
1203+21.00 to 1205+61.00	CL	1-A	240	
1220+70.00 to 1221+70.00	LT	1-A	100	
1220+00.00 to 1222+40.00	CL	1-A	240	
1244+50.00 to 1245+50.00	LT	1-A	100	
1243+80.00 to 1246+20.00	CL	1-A	240	
Bridge over Little Wabash River				
1276+75.00 to 1285+55.00	CL	1-D, 2-E	880	
Detour 1				
1248+50.00 to 1250+00.00	LT	1-B	150	
1249+00.00 to 1250+00.00	RT	1-B	100	
1255+00.00 to 1261+00.00	RT	1-B	600	
1260+00.00 to 1263+00.00	LT	1-B	300	
TOTAL			3640	

TEMPORARY PAVEMENT MARKING - LINE 4"			
LOCATION	TYPE	FOOT	
Detour 1			
100+00.00 to 21+41.57	white solid yellow	4283 4283	
Stage Const Box Culvert Sta 1158+80.50			
LT - Stage 1-A (Phase 1)			
1157+89.00 to 1159+76.00	solid yellow	187	
1157+21.00 to 1160+41.00	white	320	
RT - Stage 1-A (Phase 2)			
1158+01.00 to 1159+58.00	solid yellow	157	
1157+21.00 to 1160+41.00	white	320	
Stage Const Box Culvert Sta 1204+41			
LT - Stage 1-A (Phase 1)			
1203+88.00 to 1205+28.00	solid yellow	140	
1202+14.00 to 1206+68.00	white	454	
RT - Stage 1-A (Phase 2)			
1203+88.00 to 1205+28.00	solid yellow	140	
1202+14.00 to 1206+68.00	white	454	
Stage Const Box Culvert Sta 1221+20			
LT - Stage 1-A (Phase 1)			
1220+23.00 to 1222+18.00	solid yellow	195	
1218+95.00 to 1223+45.00	white	450	
RT - Stage 1-A (Phase 2)			
1220+71.00 to 1221+68.00	solid yellow	97	
1218+95.00 to 1223+45.00	white	450	
RT - Stage 1-A (Phase 4) Sta 1221+37			
1220+59.00 to 1221+82.00	solid yellow	123	
1218+95.00 to 1223+45.00	white	450	
Stage Const Box Culvert Sta 1245+00			
LT - Stage 1-A (Phase 1)			
1244+03.00 to 1245+98.00	solid yellow	195	
1242+75.00 to 1247+25.00	white	450	
RT - Stage 1-A (Phase 2)			
1244+51.00 to 1245+48.00	solid yellow	97	
1242+75.00 to 1247+25.00	white	450	
RT - Stage 1-A (Phase 4) Sta 1245+12.30			
1244+39.00 to 1245+62.00	solid yellow	123	
1242+75.00 to 1247+25.00	white	450	
Bridge over Little Wabash River			
1276+75.00 to 1287+55.00	solid yellow	1080	
1276+75.00 to 1285+55.00	white	880	
1274+75.00 to 1285+55.00	solid yellow	1080	
1276+75.00 to 1285+55.00	white	880	
TOTAL		18188	

RELOCATE TEMPORARY CONCRETE BARRIER (STATE OWNED)			
U.S. 45	Stage	Foot	
U.S. 45			
Stage 1-A (Phase 2) Sta 1158+80.50			
1157+60.00 to 1160+00.00	CL		240
Stage 1-A (Phase 2) Sta 1204+41			
1203+21.00 to 1205+61.00	CL		240
Stage 1-A (Phase 2) Sta 1221+20			
1220+30.00 to 1222+10.00	CL		180
1220+70.00 to 1221+70.00	RT		100
Stage 1-A (Phase 4) Sta 1221+37			
1220+30.00 to 1222+10.00	CL		180
1244+50.00 to 1245+50.00	RT		100
Stage 1-A (Phase 2) Sta 1245+00			
1244+10.00 to 1245+90.00	CL		180
1244+50.00 to 1245+50.00	RT		100
Stage 1-A (Phase 4) Sta 1245+12			
1244+00.00 to 1246+00.00	CL		200
Bridge over Little Wabash River			
1276+75.00 to 1285+55.00	CL		880
Detour 1			
1252+75.00 to 1254+45.00	RT		170
TOTAL			2470

WORK ZONE PAVEMENT MARKING REMOVAL			
LOCATION	WIDTH	SQ FT	
Stage Const Box Culvert Sta 1158+80.5			
LT - Stage 1-A (Phase 1)			
1157+89.00 to 1159+76.00	CL	4	62
1157+21.00 to 1160+41.00	LT SIDE	4	107
RT - Stage 1-A (Phase 2)			
1158+01.00 to 1159+58.00	CL	4	52
1157+21.00 to 1160+41.00	RT SIDE	4	107
Stage Const Box Culvert Sta 1204+41			
LT - Stage 1-A (Phase 1)			
1203+88.00 to 1205+28.00	CL	4	47
1202+14.00 to 1206+68.00	LT SIDE	4	151
RT - Stage 1-A (Phase 2)			
1203+88.00 to 1205+28.00	CL	4	47
1202+14.00 to 1206+68.00	RT SIDE	4	151
Stage Const Box Culvert Sta 1221+20			
LT - Stage 1-A (Phase 1)			
1220+23.00 to 1222+18.00	CL	4	65
1218+95.00 to 1223+45.00	LT SIDE	4	150
RT - Stage 1-A (Phase 3) Sta 1221+37			
1220+71.00 to 1221+68.00	CL	4	32
1218+95.00 to 1223+45.00	RT SIDE	4	150
RT - Stage 1-A (Phase 4) Sta 1221+37			
1220+59.00 to 1221+82.00	CL	4	41
1218+95.00 to 1223+45.00	RT SIDE	4	150
Stage Const Box Culvert Sta 1245+00			
LT - Stage 1-A (Phase 1)			
1244+03.00 to 1245+98.00	CL	4	65
1242+75.00 to 1247+25.00	LT SIDE	4	150
RT - Stage 1-A (Phase 3) Sta 1245+12.30			
1244+51.00 to 1245+48.00	CL	4	32
1242+75.00 to 1247+25.00	RT SIDE	4	150
RT - Stage 1-A (Phase 4) Sta 1245+12.30			
1244+39.00 to 1245+62.00	CL	4	41
1242+75.00 to 1247+25.00	RT SIDE	4	150
Bridge over Little Wabash River			
1274+75.00 to 1277+35.00	CL	4	22
1284+95.00 to 1287+55.00	CL	4	22
1276+75.00 to 1285+55.00	RT SIDE	4	294
1276+75.00 to 1285+55.00	LT SIDE	4	294
TOTAL			2532

PAINT PAVEMENT MARKING - LINE 4"			
LOCATION	TYPE	FOOT	
1143+00.00 to 1311+50.00	solid white		33700
	yellow 10' spaced @ 30'		4200
1200+00.00 to 1286+00.00	solid yellow		8600
TOTAL			46500

RAISED REFLECTIVE PAVEMENT MARKER		
U.S. 45	EACH	
1143+00.00 to 1311+50.00		211
TOTAL		211

IMPACT ATTENUATORS, TEMPORARY (FULLY REDIRECTIVE NARROW), TEST LEVEL 3		
LOCATION		EACH
US 45		
1255+00.00	Lt	1
1259+00.00	Lt	1
Stage Construction of Culverts		
1158+30.00	Lt	1
1158+80.00	Lt	1
1157+60.00	Cl	1
1160+00.00	Cl	1
1203+21.00	Cl	1
1205+61.00	Cl	1
1220+70.00	Lt	1
1221+71.00	Lt	1
1220+00.00	Cl	1
1222+40.00	Cl	1
1244+50.00	Lt	1
1245+50.00	Lt	1
1243+80.00	Cl	1
1246+20.00	Cl	1
Bridge over Little Wabash River		
1276+95.00	Cl	1
1285+35.00	Cl	1
Detour 1		
1248+50.00	Lt	1
1250+00.00	Lt	1
1249+00.00	Rt	1
1250+00.00	Rt	1
1255+00.00	Rt	1
1261+00.00	Rt	1
1260+00.00	Lt	1
1263+00.00	Lt	1
Total		26

IMPACT ATTENUATORS, RELOCATE (FULLY REDIRECTIVE), TEST LEVEL 3		
LOCATION		EACH
Stage Construction of Culverts		
1157+34.00	Cl	1
1160+00.00	Cl	1
1203+21.00	Cl	1
1205+61.00	Cl	1
1220+30.00	Cl	1
1222+10.00	Cl	1
1220+70.00	Rt	1
1221+70.00	Rt	1
1220+30.00	Cl	1
1222+10.00	Cl	1
1244+10.00	Cl	1
1245+90.00	Cl	1
1244+50.00	Rt	1
1245+50.00	Rt	1
1244+10.00	Cl	1
1246+00.00	Cl	1
Bridge over Little Wabash River		
1276+95.00	Cl	1
1285+35.00	Cl	1
Detour Road		
1252+75.00	Rt	1
1254+45.00	Rt	1
Total		20

REVISIONS	
NAME	DATE

ILLINOIS DEPARTMENT OF TRANSPORTATION

SCHEDULE OF QUANTITIES

SCALE: VERT. HORIZ. DATE: 10-21-05

DRAWN BY: IJ
CHECKED BY: MAR

Rev.

CULVERT SUMMARY

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
328	5R, Y, RS-1	CLAY	242	15
STA.		TO STA.		
FED. ROAD DIST. NO.		ILLINOIS	FED. AID PROJECT	

LOCATION	STATION	PIPE CULV. CL. A TYPE 1 EORS 24" (FOOT)	PIPE CULVERTS CLASS D				END SECTIONS				PRC FES EORS 24" (EACH)	
			TYPE 1 15" (FOOT)	TYPE 1 18" (FOOT)	TYPE 1 24" (FOOT)	TYPE 1 36" (FOOT)	15" (EACH)	18" (EACH)	24" (EACH)	36" (EACH)		
ENTRANCES												
	1146+57.54 L+		53					2				
	1147+95.83 R+				58					2		
	1149+04.07 L+		62					2				
	1149+04.07 R+				52					2		
	1154+96.63 L+		64					2				
	1154+96.63 R+		50					2				
	1158+00.00 L+		54					2				
	1163+34.95 L+		55					2				
	1163+34.95 R+				57					2		
	1177+79.15 L+				77					2		
	1177+79.15 R+				77					2		
	1184+01.16 L+				62					2		
	1184+01.16 R+				62					2		
	1190+15.40 L+					61					2	
	1209+20.32 L+		52					2				
	1212+83.01 L+			63					2			
	1217+75.42 L+				62					2		
	1223+45.09 R+		38					2				
	1225+13.02 L+		58					2				
	1226+22.83 R+		52					2				
	1229+19.19 R+		44					2				
	1234+02.73 L+		42					2				
	1235+69.04 L+		60					2				
	1239+83.51 R+				60					2		
	1241+65.40 R+				68					2		
	1254+48.05 L+		36					2				
	1254+64.38 R+		36					2				
	1289+04.60 R+		48					2				
	1291+11.50 R+				57					2		
	1291+11.50 R+				59					2		
	1291+176.83 R+					66					2	
	1297+27.46 R+						58				2	
	1305+94.47 R+										2	
	1310+10.60 L+				52					2		
SIDE ROADS												
TR 1300 N	10+33.02	48										2
TR 1300 N	11+00.00		54					2				
TR 1430 N	10+33.23	36										2
TR 1475 N	9+00.00			70					4			
GRAND TOTALS		84	858	301	701	119	34	12	22	4		4

LOCATION	STATION	TEMPORARY INLET (EACH)	TEMPORARY PIPE CULVERTS				TEMPORARY PRECAST BOX CULVERTS					
			PIPE CULVERTS CLASS D				PRECAST BOX CULVERTS 3'x3' (FOOT)	PRECAST BOX CULVERTS 4'x2' (FOOT)	PRECAST BOX CULVERTS 5'x5' (FOOT)	PRECAST BOX CULVERTS 6'x5' (FOOT)		
			TYPE 2 15" (FOOT)	TYPE 2 18" (FOOT)	TYPE 3 60" (FOOT)	TYPE 3 60" (FOOT)						
MAIN LINE												
1	1158+80.50									6		
3	1221+37.00											6
4	1245+12.00								6			
5	1249+50.00					50					4	
ENTRANCES												
	1252+50.00 R+		42									
DETOUR												
	1250+00.00	1			46							
	1261+00.00	1			54							
	1262+00.00	1			50							
GRAND TOTALS		3	42	150	50	6	6	4		6		

CULVERT NO./ LOCATION	STATION	POURUS GRANULAR EMBANKMENT (CU YD)	PRECAST BOX CULVERT SIZE							SPECIAL DROP INLET (EACH)	END SECTIONS								
			3'x2' (FOOT)	3'x3' (FOOT)	4'x2' (FOOT)	4'x3' (FOOT)	4'x4' (FOOT)	5'x5' (FOOT)	6'x5' (FOOT)		7'x5' (FOOT)	3'x2' (FOOT)	3'x3' (FOOT)	4'x2' (FOOT)	4'x3' (FOOT)	4'x4' (FOOT)	5'x5' (FOOT)	6'x5' (FOOT)	7'x5' (FOOT)
MAIN LINE																			
1	1158+80.50	86			54												2		
2	1204+41.00	306									60								2
3	1221+20.00	1149								92	1								1
4	1245+00.00	2556		93							1		1						
5	1249+50.00								108		1							1	
6	1304+62.98					18										2			
ENTRANCES																			
7	1173+06.19 R+			42													2		
8	1184+01.16 R+			53													2		
9	1190+15.40 R+				61													2	
10	1197+05.61 R+				63													2	
11	1201+41.34 R+				88													2	
SIDE ROADS																			
12 TR 1475 N	9+66.57		36														2		
13 TR 1425 N	9+66.42		42														2		
14 TR 1375 N	10+41.88			36														2	
GRAND TOTALS		4097	78	93	185	212	18	108	92	60	3	4	1	8	6	2	1	1	2

STATION	STORM SEWER CLASS A					INLETS					END SECTIONS		MANHOLE TY A 5' DIA.		FLUSH INLET BOX FOR MEDIAN, STD 542546 (EACH)	TRENCH BACKFILL (CU YD)	
	TYPE 1 12" (FOOT)	TYPE 1 15" (FOOT)	TYPE 2 15" (FOOT)	TYPE 1 24" (FOOT)	TYPE 1 30" (FOOT)	A-3 (EACH)	A-8 (EACH)	A-9 (EACH)	A-24 (EACH)	B-8 (EACH)	B-9 (EACH)	PRC FES 15" (EACH)	PRC FES 30" (EACH)	TYPE 1 FRAME OL (EACH)			TYPE 8 GRATE (EACH)
1233+50.00		48					1					1					16.9
1235+50.00 R+			47					1									8.8
1236+00.00 R+			106						1								70.6
1237+10.00 R+			64							1							48.4
1237+75.00 R+											1						18.5
1307+00.00 R+					42							1					21.9
1307+50.00 R+					83								1				
1308+37.00 R+					58										1		
1309+00.00 R+	13				118	1									1		0.6
1310+22.00 R+	7								1						1		0.6
GRAND TOTALS	20	48	217	118	183	1	1	1	1	1	2	1	1	1	2		186.3

REVISIONS		ILLINOIS DEPARTMENT OF TRANSPORTATION
NAME	DATE	
		<h2>SCHEDULE OF QUANTITIES</h2> <p>SCALE: VERT. HORIZ. DATE: 10-21-05</p> <p>DRAWN BY: UJ CHECKED BY: MAR</p>

10/25/2005 10:55:21 AM

PAVING SUMMARY

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
328	5R, Y, RS-1	CLAY	242	16
STA.		TO STA.		
FED. ROAD DIST. NO.		ILLINOIS	FED. AID PROJECT	

STATION	PROCESSING LIME MODIFIED SOILS 12"	AGGREGATE (PRIME COAT)	BITUMINOUS MATERIALS (PRIME COAT)	BITUMINOUS BASE COURSE, SUPERPAVE, 7"	BITUMINOUS BASE COURSE, SUPERPAVE, 8"	BITUMINOUS CONCRETE SURFACE COURSE, SUPERPAVE, MIX "C", N50	LEVELING BINDER (MACHINE METHOD), SUPERPAVE N50	BITUMINOUS CONCRETE PAVEMENT (FULL-DEPTH), SUPERPAVE, 13 1/2"	PORTLAND CEMENT CONCRETE BASE COURSE WIDENING 6"	AGGREGATE SHOULDERS, TYPE B, 8"	BITUMINOUS SHOULDERS SUPERPAVE, 8"	BITUMINOUS MIXTURE COMPLETE
	SQ YD	TON	GALLON	SQ YD	SQ YD	TON	TON	SQ YD	SQ YD	SQ YD	SQ YD	TON
<i>U.S. 45</i>												
1143+50.00 to 1231+00.00		50.6	1895.8			2145.7	1067.7		948.4	7415.4	5833.3	
1231+00.00 to 1237+00.00		3.5	130.0			146.3	72.8			238.8	666.7	
1237+00.00 to 1246+50.00		5.5	205.8			231.6	115.3		386.7	733.6	633.3	
1246+50.00 to 1263+00.88	4952.6							4608.7		1798.8	1100.6	
1263+00.88 to 1276+97.11		8.4	313.3			340.7	169.4			1241.1	930.8	
1276+97.11 to 1277+47.11										44.4	33.3	
1284+82.78 to 1285+32.78										44.4	33.3	
1285+32.78 to 1311+50.00		15.4	577.9			638.2	311.5			2134.2	1656.5	
<i>Detour 1</i>												
01+31.00 to 01+70.98				100.3		11.0						
01+70.98 to 02+21.99				128.0		14.1						
02+21.99 to 04+05.96				461.6		50.8						
04+05.96 to 17+35.60				3397.2		373.5						45.1
17+35.60 to 19+19.56				461.6		50.8						7.0
19+19.56 to 19+70.58				128.0		14.1						
19+70.58 to 19+95.00				61.3		6.7						
<i>SIDERROADS</i>												
TOTAL FOR SIDERROADS						1771	198.4					
<i>At Traffic Barrier Terminals, Type 1, Special Flared (see next sheet for calculation)</i>												
GRAND TOTAL	4953	83	3123	4738	1771	4222	1737	4609	1335	13759	10888	52

AGGREGATE BASE COURSE, TYPE B		
Temporary Mailbox Turnouts		
<i>U.S. 45</i>		TON
1246+40.7	LT	16.7
1254+48.1	LT	22.6
SUB-TOTAL		39
Temporary Barrier		
<i>Detour 1</i>		TON
1248+50.00	to 1250+00.00	19.0
1249+00.00	to 1250+00.00	12.7
1252+75.00	to 1254+45.00	21.6
1255+00.00	to 1261+00.00	76.1
1260+00.00	to 1263+00.00	38.1
SUB-TOTAL		168
TOTAL		207

TEMPORARY ACCESS (PRIVATE ENTRANCE)		
<i>U.S. 45</i>		EACH
1246+40.7	LT	1
1252+50.0	LT	1
1252+50.0	RT	1
1254+48.1	LT	1
1254+50.3	LT	1
1252+50.0	RT	1
TOTAL		6

REVISIONS	
NAME	DATE

ILLINOIS DEPARTMENT OF TRANSPORTATION

SCHEDULE OF QUANTITIES

SCALE: VERT. DRAWN BY: UJ
 HORIZ. CHECKED BY: MAR
 DATE: 10-21-05

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
328	5R, Y, RS-1	CLAY	242	17
STA.		TO STA.		
FED. ROAD DIST. NO.		ILLINOIS	FED. AID PROJECT	

ENTRANCE SUMMARY

ENTRANCE SCHEDULE										
TYPE	SIDE / STATION	WIDTH	LENGTH		RADIUS	AGGREGATE BASE COURSE TYPE B	AGGREGATE SURFACE COURSE TYPE B	INCIDENTAL BITUMINOUS SURFACING, SUPERPAVE	PCC DRIVEWAY PAVEMENT 8"	
			L1	L2		TON	TON	TON	SQ. YD.	
			FE	LT		1146+57.54	20'	30'	4'	30'
PE	RT	1147+95.83	16'	20'	12'	20'	13.6	7.7	6.8	
PE	RT	1149+04.07	14'	20'	12'	20'	12.3	6.0	6.2	
FE	LT	1149+04.07	20'	30'	3'	30'		23.3		
CE	LT	1154+96.63	35'	30'	11'	30'			209.0	
FE	RT	1154+96.63	20'	30'	6'	30'		25.6		
FE	LT	1158+00.00	20'	30'	3'	30'		23.3		
FE	RT	1159+17.15	20'	30'	3'	30'		23.3		
PE	LT	1159+17.15	16'	20'	3'	20'	13.6	1.5	6.8	
FE	RT	1163+34.95	20'	30'	4'	30'		24.1		
FE	LT	1163+34.95	20'	30'	4'	30'		24.1		
PE	RT	1173+06.19	14'	20'	17'	20'	12.3	8.6	6.2	
PE	LT	1177+79.15	24'	30'	'	30'	33.6	0.0	16.9	
FE	RT	1184+01.16	20'	30'	12'	30'		30.0		
FE	LT	1184+01.16	20'	30'	4'	30'		24.1		
PE	RT	1190+15.40	12'	20'	27'	20'	11.1	12.0	5.6	
FE	LT	1190+15.40	20'	30'	9'	30'		27.8		
PE	RT	1197+05.61	24'	20'	22'	20'	18.6	21.2	9.4	
PE	RT	1201+41.34	24'	20'	24'	20'	18.6	45.1	9.4	
PE	RT	1207+62.32	12'	20'	18'	20'	11.1	8.0	5.6	
PE	LT	1208+22.29	18'	20'	27'	20'	14.8	17.9	7.5	
PE	LT	1209+20.32	14'	20'	28'	20'	12.3	14.3	6.2	
PE	LT	1212+83.01	24'	30'	14'	30'	33.6	12.4	16.9	
PE	LT	1217+75.42	14'	20'	26'	20'	12.3	13.2	6.2	
FE	RT	1223+45.09	20'	30'	11'	30'		29.3		
PE	LT	1225+13.02	14'	20'	27'	20'	12.3	13.9	6.2	
FE	RT	1226+22.83	20'	30'		30'		21.1		
PE	RT	1229+19.19	12'	20'	14'	20'	11.1	6.1	5.6	
CE	RT	1233+13.44	12'		4'			1.8		
PE	LT	1234+02.73	14'	20'	13'	20'	12.3	6.6	6.2	
CE	RT	1234+80.33	12'		3'			1.5		
PE	LT	1235+69.04	20'	20'	14'	20'	16.1	10.4	8.1	
CE	RT	1235+69.04	14'		3'		1.8		0.9	
CE	RT	1239+83.51	32'	20'	11'	20'			135.6	
CE	RT	1241+65.40	32'	20'	15'	20'			147.7	
PE	RT	1246+40.73	12'	20'	25'	20'	11.1	10.9	5.6	
PE	LT	1254+48.05	12'	20'	60'	20'	11.1	26.4	5.6	
PE	RT	1254+64.38	12'	30'	48'	30'	21.6	22.2	10.9	
FE	LT	1264+52.76	20'	30'	14'	30'		31.5		
FE	LT	1272+83.79	20'	30'		30'		44.7		
FE	RT	1286+96.43	20'	30'		30'		21.1		
FE	LT	1288+85.73	20'	30'		30'		21.1		
PE	RT	1289+04.60	18'	20'	11'	20'	14.8	7.5	7.5	
CE	RT	1291+11.50	30'	Varies	Varies	Varies	42.9		21.6	
FE	LT	1291+20.40	20'	30'	1'	30'		21.9		
PE	RT	1291+76.83	30'	20'	13'	20'	22.4	14.6	11.3	
FE	RT	1297+27.46	20'	30'	4'	30'		24.1		
FE	LT	1303+00.00	20'	30'	17'	30'		33.7		
FE	RT	1305+94.47	22'	30'	17'	30'		36.6		
CE	RT	1308+05.85	15'	20'	8'	20'	12.9	4.4	6.5	
CE	RT	1308+68.50	14'	20'	9'	20'	12.3	4.7	6.2	
FE	LT	1310+10.60	20'	30'		30'		21.1		
TOTALS							420	855	212	492

SIDE ROAD ENTRANCE SCHEDULE (NEW PAVEMENT)										
PUBLIC ROAD	TYPE	SIDE / STATION	WIDTH	LENGTH		RADIUS	AGGREGATE BASE COURSE TYPE B 6"	AGGREGATE SURFACE COURSE TYPE B	INCIDENTAL BITUMINOUS SURFACING, SUPERPAVE	
				L1	L2		TON	TON	TON	
				TWP RD 1000E 1475N	FE		RT	9+00.00	20'	10'
TWP RD 1000E 1375N	PE	RT	11+71.66	12'	20'	12'	20'	17.7	0.6	8.9
TWP RD 1000E 1300N	CE	LT	11+00.00	28'	20'	13'	20'	27.1	13.5	13.7
TOTALS							45	25	23	

PUBLIC ROAD SCHEDULE									
PUBLIC ROAD	SIDE / STATION	WIDTH	LENGTH	TAPER		RADIUS	BITUMINOUS BASE COURSE SUPERPAVE 8"	BITUMINOUS CONC SURFACE COURSE SUPERPAVE MIX "C", N50	
				LENGTH	END WIDTH		SQ. YD.	TON	
				TWP RD 1000E 1475N	RT		1144+04.26	20'	37'
TWP RD 1000E 1430N	LT	1167+47.52	20'	37'	10'	12'	30'	154.0	17.2
TWP RD 1000E 1425N	RT	1170+15.11	20'	38'	10'	20'	30'	160.7	18.0
TWP RD 1000E 1375N	LT	1197+05.61	20'	172'	50'	14'	30'	530.7	59.4
TWP RD 1000E 1350N	RT	1210+53.87	20'	38'	10'	15'	30'	157.9	17.7
TWP RD 1000E 1300N	RT	1237+40.52	20'	38'	13'	16'	30'	164.4	18.4
TWP RD 1000E 1300N	LT	1237+40.52	20'	132'	50'	16'	30'	447.3	50.1
TOTAL							1771	198	

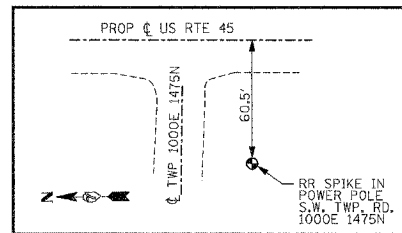
REVISIONS	
NAME	DATE

ILLINOIS DEPARTMENT OF TRANSPORTATION

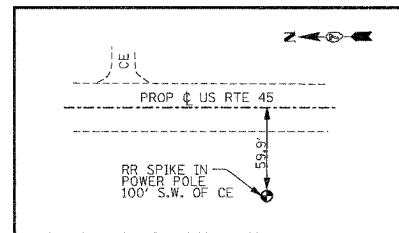
SCHEDULE OF QUANTITIES

SCALE: VERT. DRAWN BY: UJ
 HORIZ. CHECKED BY: MAR
 DATE: 10-21-05

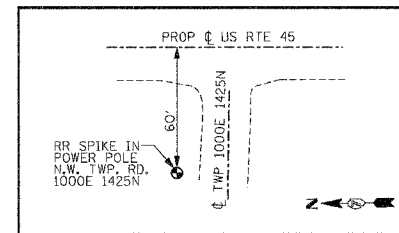
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328	SR, Y, RS-1	CLAY	242	18
STA.		TO STA.		
FED. ROAD DIST. NO. 7		ILLINOIS	FED. AID PROJECT	
CONTRACT NO. 74078				



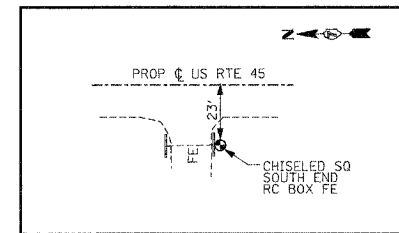
BENCHMARK #9 STA 1144+49
ELEVATION 498.63



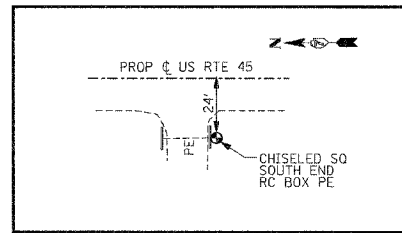
BENCHMARK #8 STA 1155+90
ELEVATION 498.08



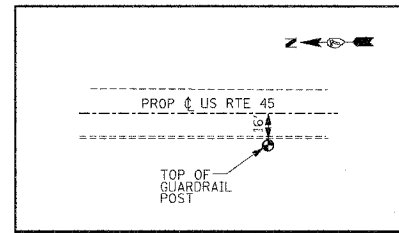
BENCHMARK HR #2 (*7) STA 1169+65
ELEVATION 494.50



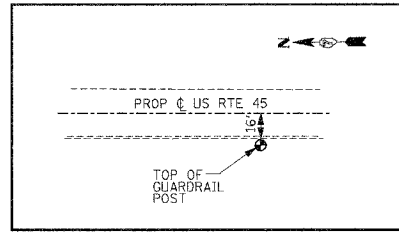
BENCHMARK #6 STA 1184+12
ELEVATION 493.17



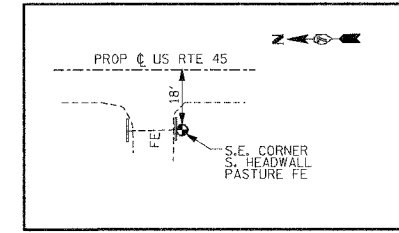
BENCHMARK #5 STA 1197+19
ELEVATION 491.01



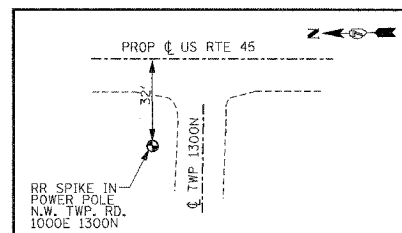
BENCHMARK HR #3 STA 1203+46
ELEVATION 490.67



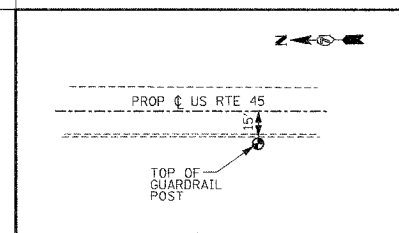
BENCHMARK HR #4 STA 1222+00
ELEVATION 476.55



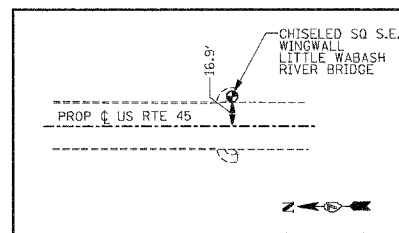
BENCHMARK HR #5 STA 1226+31
ELEVATION 482.67



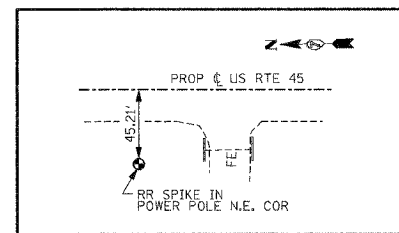
BENCHMARK HR #6 STA 1237+20
ELEVATION 489.70



BENCHMARK HR #7 STA 1249+00
ELEVATION 479.79



BENCHMARK #1 STA 1284+85
ELEVATION 464.50



BENCHMARK #4 STA 1305+14
ELEVATION 486.83

REVISIONS	
NAME	DATE

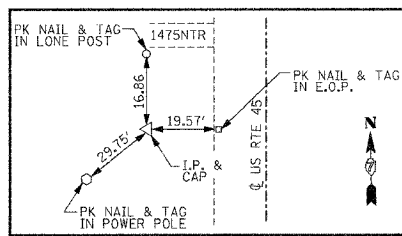
ILLINOIS DEPARTMENT OF TRANSPORTATION

BENCHMARKS US RTE 45

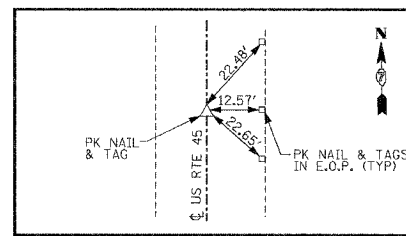
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DATE: 10-21-05

DRAWN BY: UJ
CHECKED BY: MAR

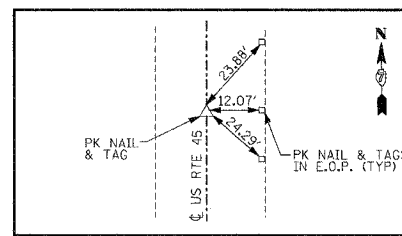
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328	SR, Y, RS-1	CLAY	242	19
STA.		TO STA.		
FED. ROAD DIST. NO. 7 ILLINOIS FED. AID PROJECT				
CONTRACT NO. 74078				



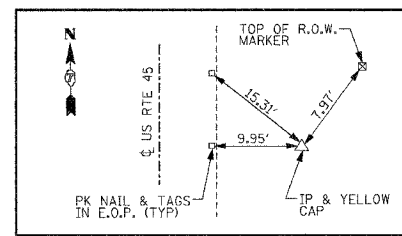
T.P. #34 STA 1144+40.64



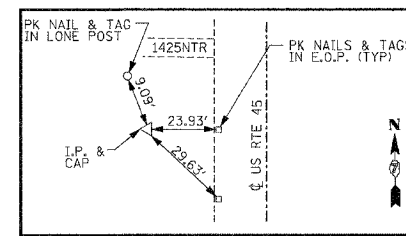
PI STA 1152+03.23



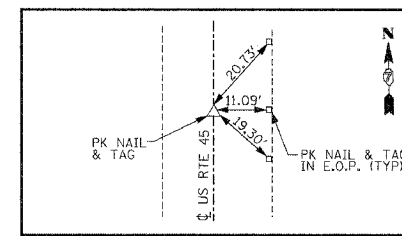
PI STA 1157+96.67



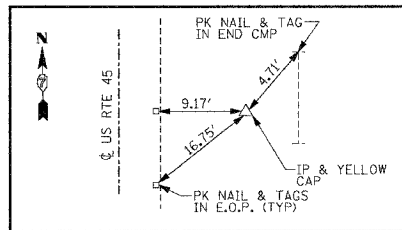
T.P. #33 STA 1159+03.69



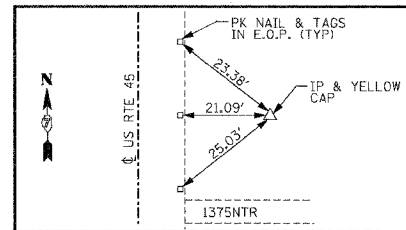
T.P. #32 STA 1170+40.32



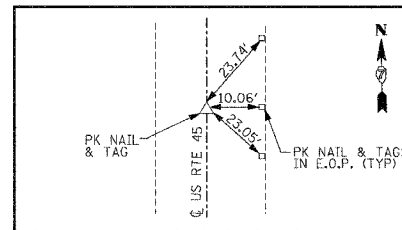
POT STA 1177+54.54



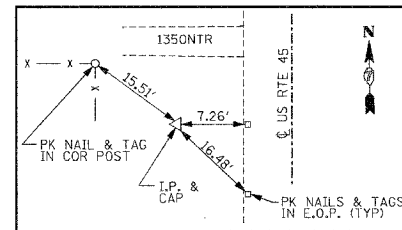
T.P. #31 STA 1183+95.64



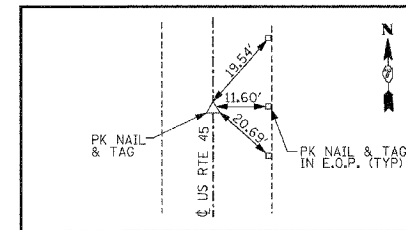
T.P. #30 STA 1196+62.93



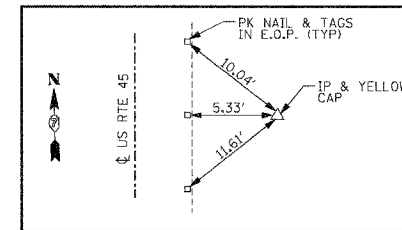
PI STA 1197+96.67



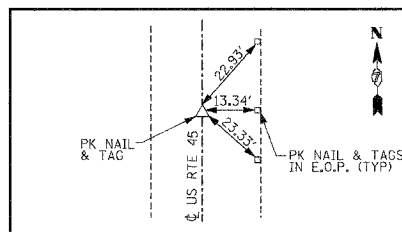
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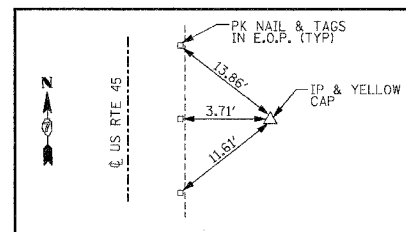
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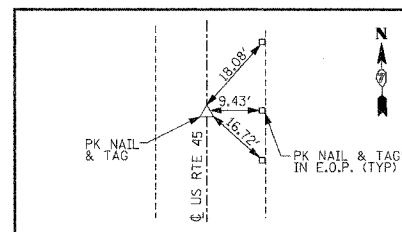
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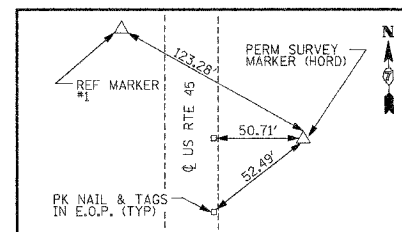
PI STA 1235+00.15



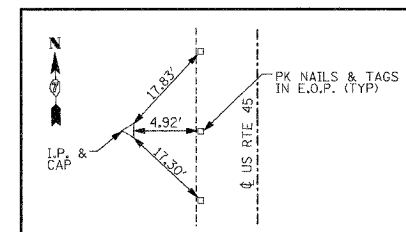
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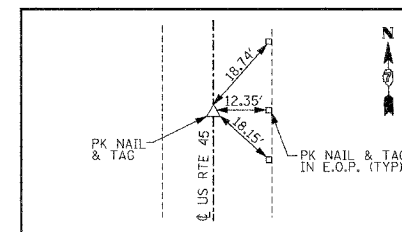
PI STA 1256+00.15



T.P. #50 STA 1277+13.66



T.P. #25 STA 1287+86.47

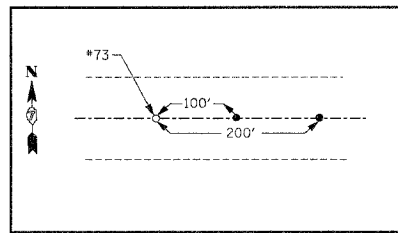


PI STA 1288+99.99

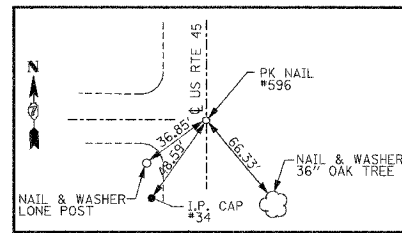
REVISIONS	
NAME	DATE

ILLINOIS DEPARTMENT OF TRANSPORTATION
**REFERENCE TIES
 TRAVERSE STATIONS
 US RTE 45**
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 DATE: 10-21-05
 DRAWN BY: UJ
 CHECKED BY: MAR

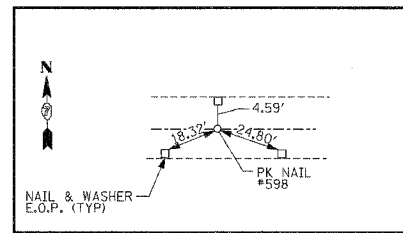
F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
328	5R, Y, RS-1	CLAY	242	20
STA.		TO STA.		
FED. ROAD DIST. NO. 7		ILLINOIS	FED. AID PROJECT	
CONTRACT NO. 74078				



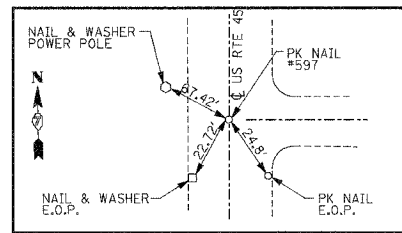
TR1475N STA 5+00.00
#73 60 SPIKE



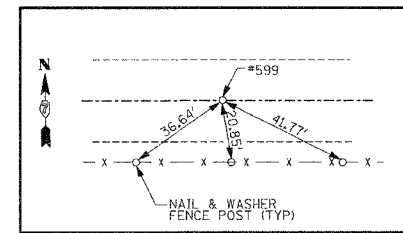
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PK NAIL #596



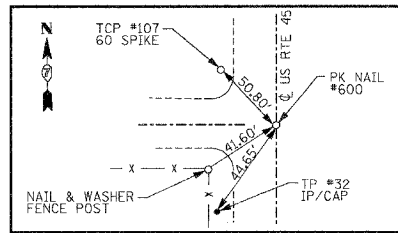
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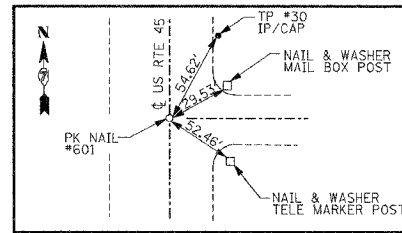
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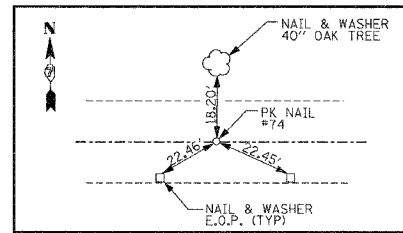
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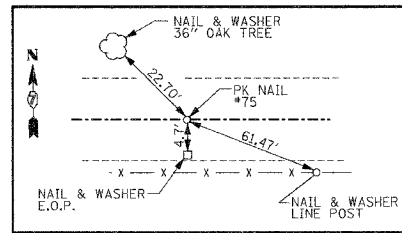
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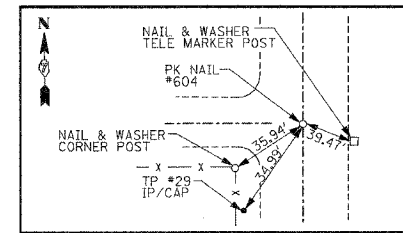
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PK NAIL SET #601



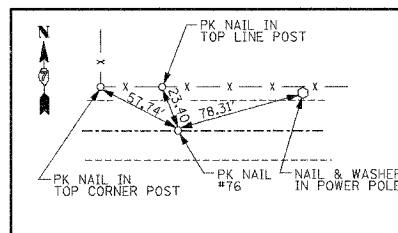
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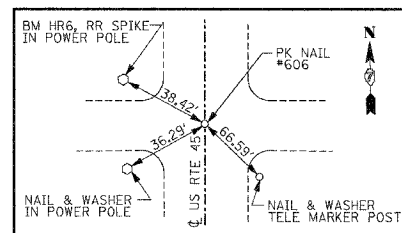
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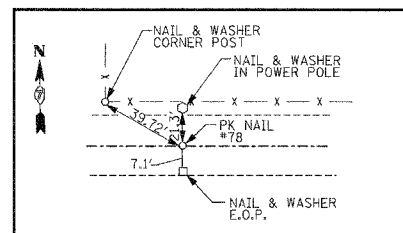
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PK NAIL SET #604



TR1300N STA 5+00.00
PK NAIL SET #76



TR1300N P.I. STA 10+00.00
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TR1300N STA 15+00.00
PK NAIL SET #78

REVISIONS	
NAME	DATE

ILLINOIS DEPARTMENT OF TRANSPORTATION

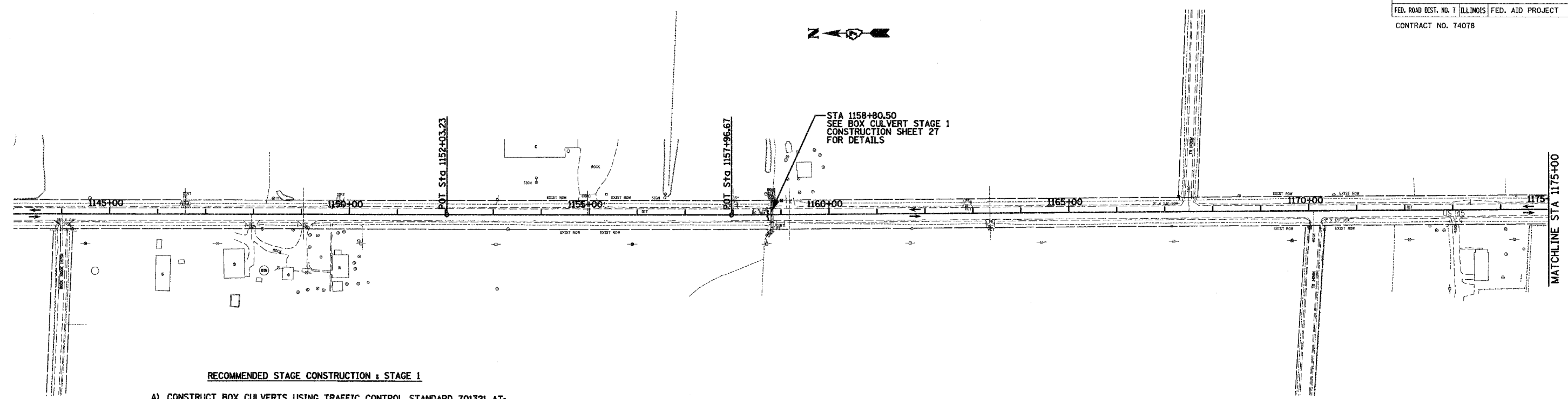
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DATE: 10-21-05

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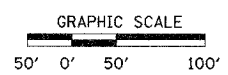
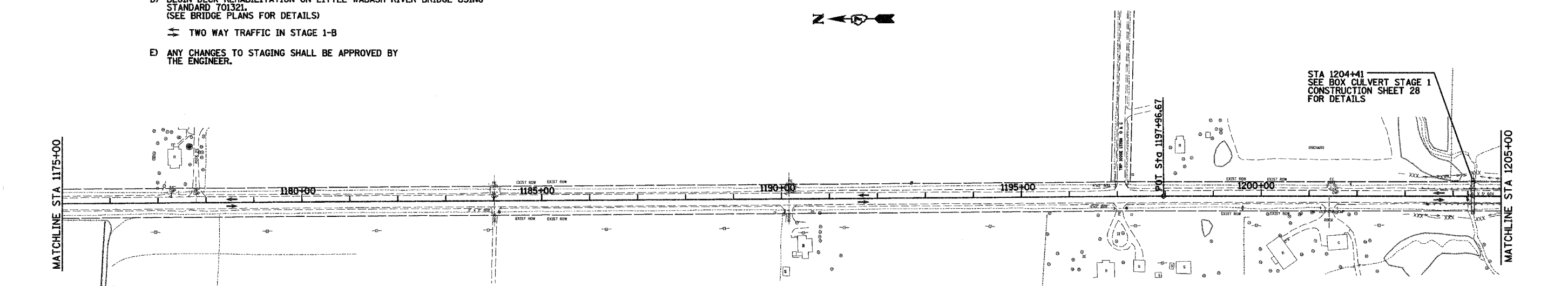
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F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
328	5R, Y, RS-1	CLAY	242	21
STA.		TO STA.		
FED. ROAD DIST. NO. 7		ILLINOIS	FED. AID PROJECT	
CONTRACT NO. 74078				



RECOMMENDED STAGE CONSTRUCTION - STAGE 1

- A) CONSTRUCT BOX CULVERTS USING TRAFFIC CONTROL STANDARD 701321 AT:
STA 1158+80.50, STA 1204+41, STA 1221+20 & STA 1245+00
(SEE STAGE 1 CONSTRUCTION - BOX CULVERTS FOR DETAILS)
- CONSTRUCT DETOUR ROAD #1, INCLUDING TEMPORARY ENTRANCES,
ENTRANCE PIPES, AND MAILBOX TURNOUTS.
- CONSTRUCT ANY MAINLINE AND CROSSROAD PIPES AND BOX CULVERTS IN THESE
AREAS FIRST.
- B) SHIFT TRAFFIC TO COMBINATION OF DETOUR ROAD AND EXISTING PAVEMENT
USING CONTROL STANDARD 701331.
- C) CONSTRUCT NEW PAVEMENT, SHOULDERS, SLOPES, ETC.
STA 1246+50 TO STA 1263+00 (ALL PROPOSED MAINLINE CENTERLINE STATIONING)
- D) BEGIN DECK REHABILITATION ON LITTLE WABASH RIVER BRIDGE USING
STANDARD 701321.
(SEE BRIDGE PLANS FOR DETAILS)
- ↔ TWO WAY TRAFFIC IN STAGE 1-B
- E) ANY CHANGES TO STAGING SHALL BE APPROVED BY
THE ENGINEER.



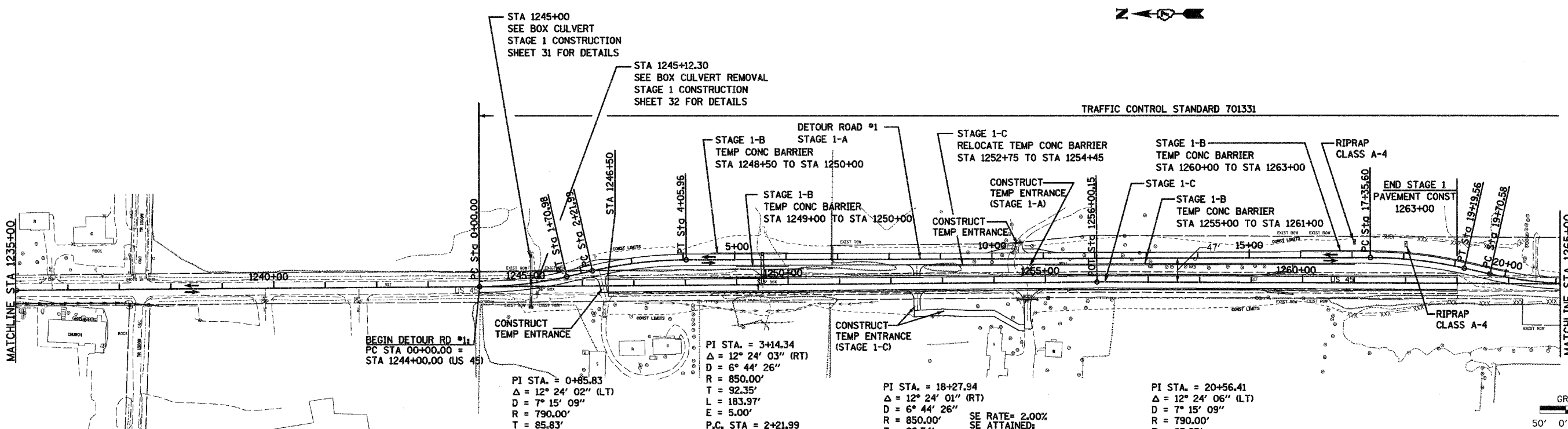
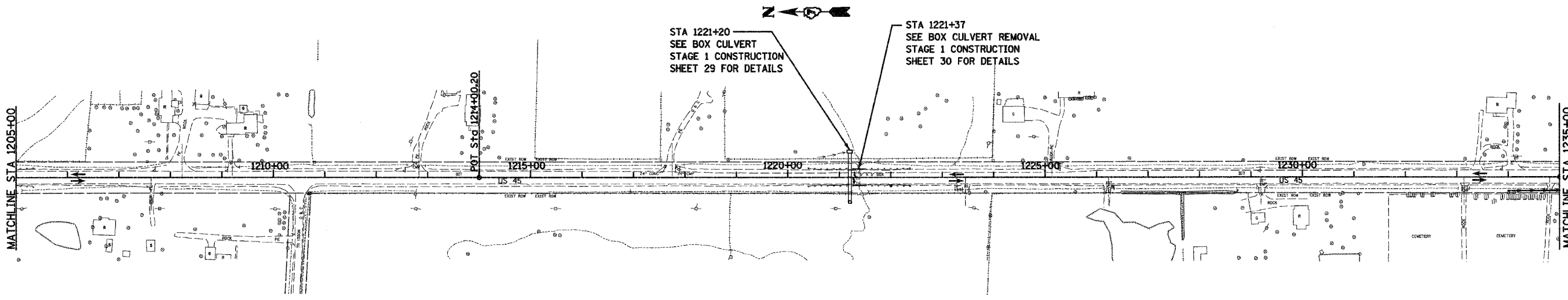
REVISIONS	
NAME	DATE

ILLINOIS DEPARTMENT OF TRANSPORTATION

STAGE 1 CONSTRUCTION

SCALE: VERT. DRAWN BY: IJ
 HORIZ. CHECKED BY: MAR
 DATE: 10-21-05

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
328	5R, Y, RS-1	CLAY	242	22
STA.		TO STA.		
FED. ROAD DIST. NO. 7		ILLINOIS	FED. AID PROJECT	
CONTRACT NO. 74078				



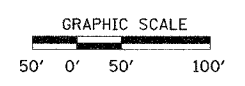
PI STA. = 0+85.83
 $\Delta = 12^\circ 24' 02''$ (LT)
D = 7' 15' 09"
R = 790.00'
T = 85.83'
L = 170.98'
E = 4.65'
P.C. STA = 0+00.00
P.T. STA = 1+70.98
SE RATE= N/A

PI STA. = 3+14.34
 $\Delta = 12^\circ 24' 03''$ (RT)
D = 6' 44' 26"
R = 850.00'
T = 92.35'
L = 183.97'
E = 5.00'
P.C. STA = 2+21.99
P.T. STA = 4+05.96
SE RATE= 2.00%
SE ATTAINED:
STA 2+00.00 TO STA 2+82.00,
STA. 3+92.31 TO STA 4+64.29

PI STA. = 18+27.94
 $\Delta = 12^\circ 24' 01''$ (RT)
D = 6' 44' 26"
R = 850.00'
T = 92.34'
L = 183.96'
E = 5.00'
P.C. STA = 17+35.60
P.T. STA = 19+19.56
SE RATE= 2.00%
SE ATTAINED:
STA 16+77.27 TO STA 17+49.27
STA. 18+68.00 TO STA 19+50.00

PI STA. = 20+56.41
 $\Delta = 12^\circ 24' 06''$ (LT)
D = 7' 15' 09"
R = 790.00'
T = 85.83'
L = 171.00'
E = 4.65'
P.C. STA = 19+70.58
P.T. STA = 21+41.57
SE RATE= N/A

TRAFFIC CONTROL STANDARD 701331



REVISIONS	
NAME	DATE

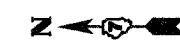
ILLINOIS DEPARTMENT OF TRANSPORTATION

STAGE 1 CONSTRUCTION

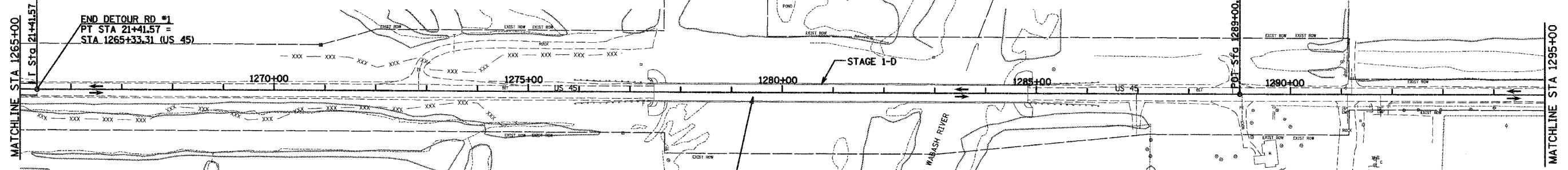
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DATE: 10-21-05

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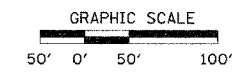
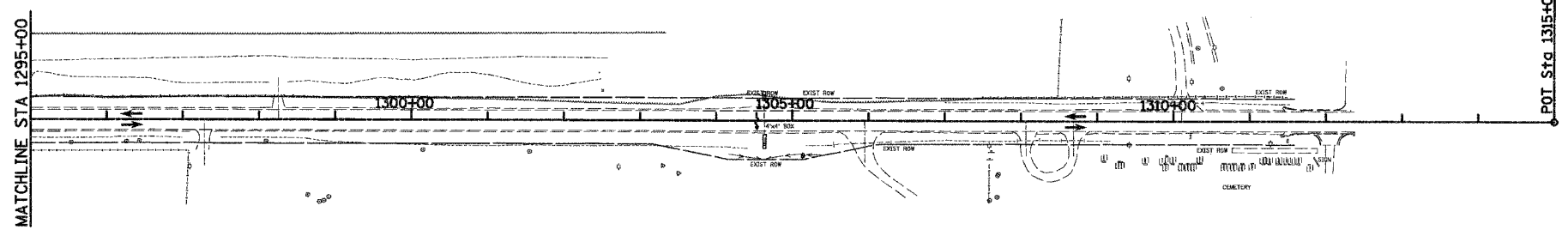
F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
328	5R, Y, RS-1	CLAY	242	23
STA.		TO STA.		
FED. ROAD DIST. NO. 7		ILLINOIS	FED. AID PROJECT	
CONTRACT NO. 74078				



TRAFFIC CONTROL STANDARD 701331



PAVEMENT CONSTRUCTION ON THIS SHEET INCLUDED IN STAGE 2



REVISIONS	
NAME	DATE

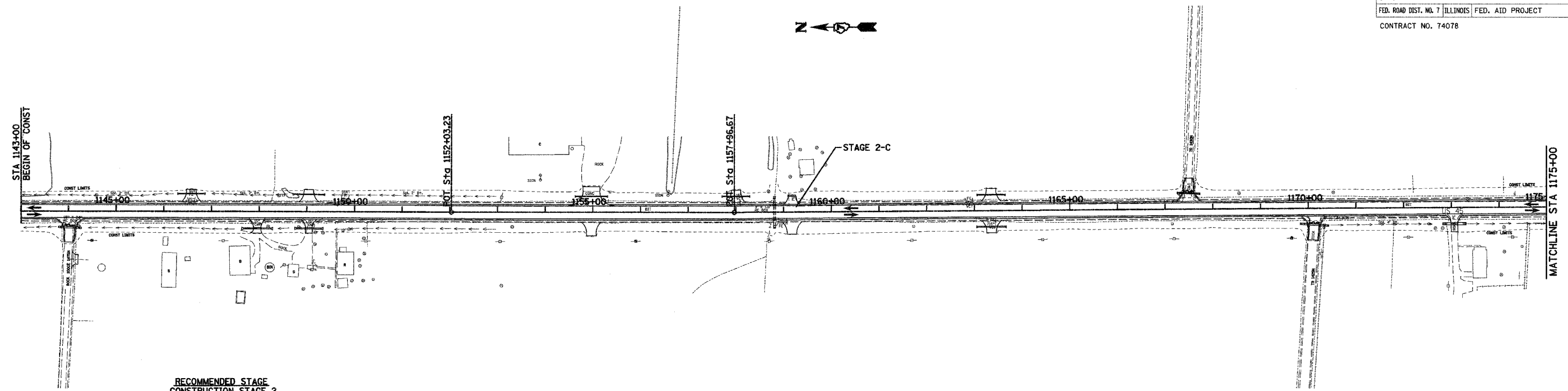
ILLINOIS DEPARTMENT OF TRANSPORTATION

STAGE 1 CONSTRUCTION

SCALE: VERT. DRAWN BY: UJ
 HORIZ. CHECKED BY: MAR
 DATE: 10-21-05

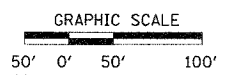
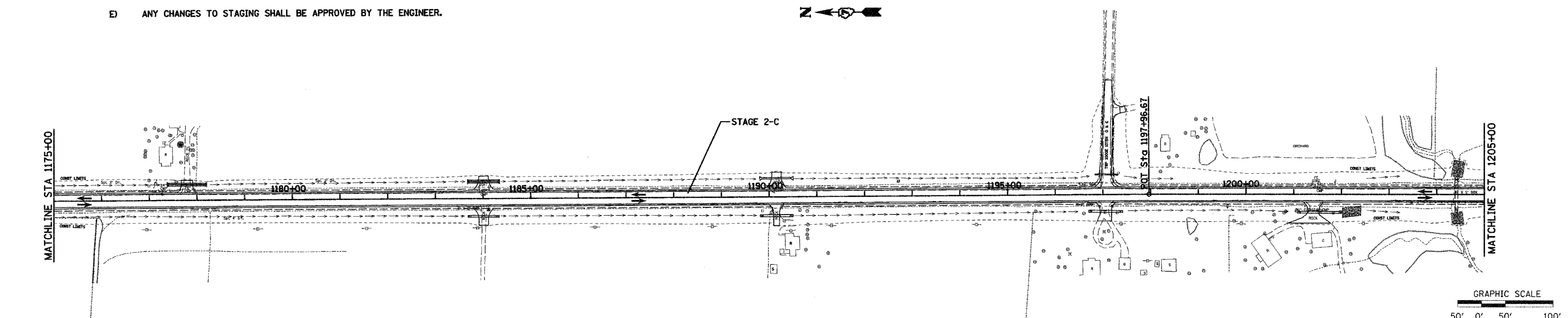
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F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
328	5R, Y, RS-1	CLAY	242	24
STA.		TO STA.		
FED. ROAD DIST. NO. 7		ILLINOIS	FED. AID PROJECT	
CONTRACT NO. 74078				



RECOMMENDED STAGE CONSTRUCTION STAGE 2

- A) SHIFT TRAFFIC TO COMBINATION OF NEWLY CONSTRUCTED PAVEMENT & EXISTING PAVEMENT
- B) REMOVE DETOUR ROAD AND ANY EXISTING PAVEMENT NO LONGER IN USE.
- C) COMPLETE RESURFACING , SHOULDER WORK AND SLOPES
 STA 1143+00 TO STA 1246+50
 STA 1263+00 TO STA 1277+47
 STA 1284+83 TO STA 1311+50
- D) COMPLETE DECK RECONSTRUCTION ON LITTLE WABASH RIVER BRIDGE
- E) ANY CHANGES TO STAGING SHALL BE APPROVED BY THE ENGINEER.



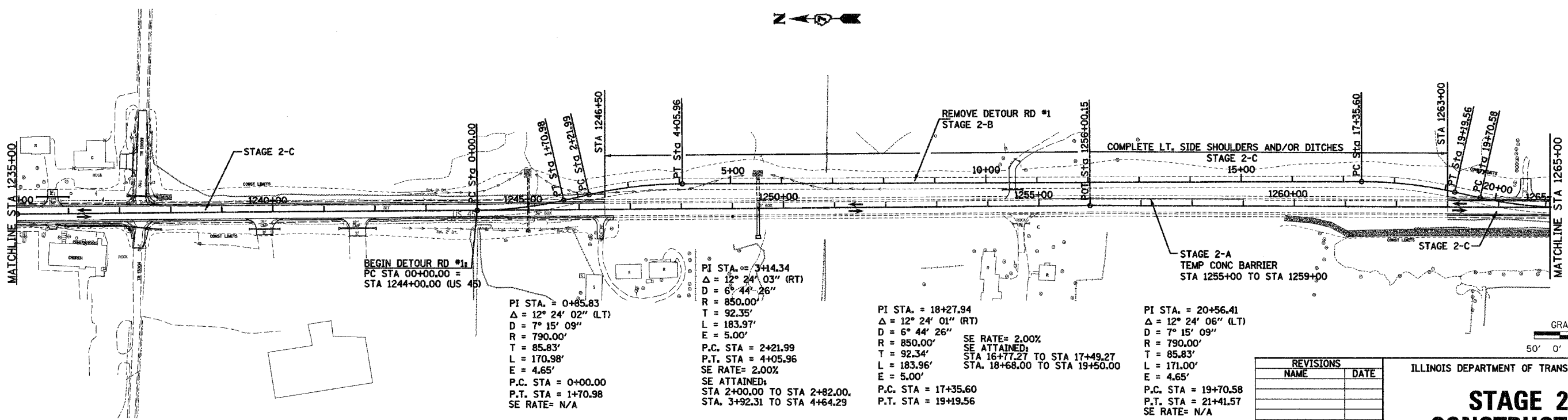
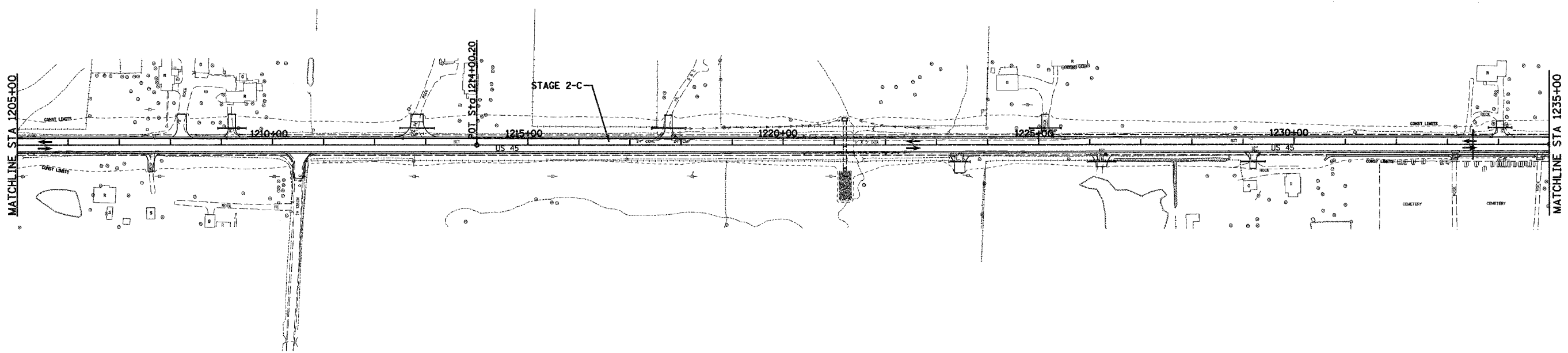
REVISIONS	
NAME	DATE

ILLINOIS DEPARTMENT OF TRANSPORTATION

STAGE 2 CONSTRUCTION

SCALE: VERT. DRAWN BY: LJ
 HORIZ. CHECKED BY: MAR
 DATE: 10-21-05

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
328	5R, Y, RS-1	CLAY	242	25
STA.		TO STA.		
FED. ROAD DIST. NO. 7 ILLINOIS		FED. AID PROJECT		
CONTRACT NO. 74078				



BEGIN DETOUR RD #1
PC STA 00+00.00 =
STA 1244+00.00 (US 45)

PI STA. = 0+85.83
Δ = 12° 24' 02" (LT)
D = 7° 15' 09"
R = 790.00'
T = 85.83'
L = 170.98'
E = 4.65'
P.C. STA = 0+00.00
P.T. STA = 1+70.98
SE RATE= N/A

PI STA. = 3+14.34
Δ = 12° 24' 03" (RT)
D = 6° 44' 26"
R = 850.00'
T = 92.35'
L = 183.97'
E = 5.00'
P.C. STA = 2+21.99
P.T. STA = 4+05.96
SE RATE= 2.00%
SE ATTAINED:
STA 2+00.00 TO STA 2+82.00,
STA. 3+92.31 TO STA 4+64.29

PI STA. = 18+27.94
Δ = 12° 24' 01" (RT)
D = 6° 44' 26"
R = 850.00'
T = 92.34'
L = 183.96'
E = 5.00'
P.C. STA = 17+35.60
P.T. STA = 19+19.56
SE RATE= 2.00%
SE ATTAINED:
STA 16+77.27 TO STA 17+49.27
STA. 18+68.00 TO STA 19+50.00

PI STA. = 20+56.41
Δ = 12° 24' 06" (LT)
D = 7° 15' 09"
R = 790.00'
T = 85.83'
L = 171.00'
E = 4.65'
P.C. STA = 19+70.58
P.T. STA = 21+41.57
SE RATE= N/A

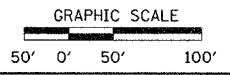
REVISIONS	
NAME	DATE

ILLINOIS DEPARTMENT OF TRANSPORTATION

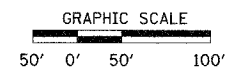
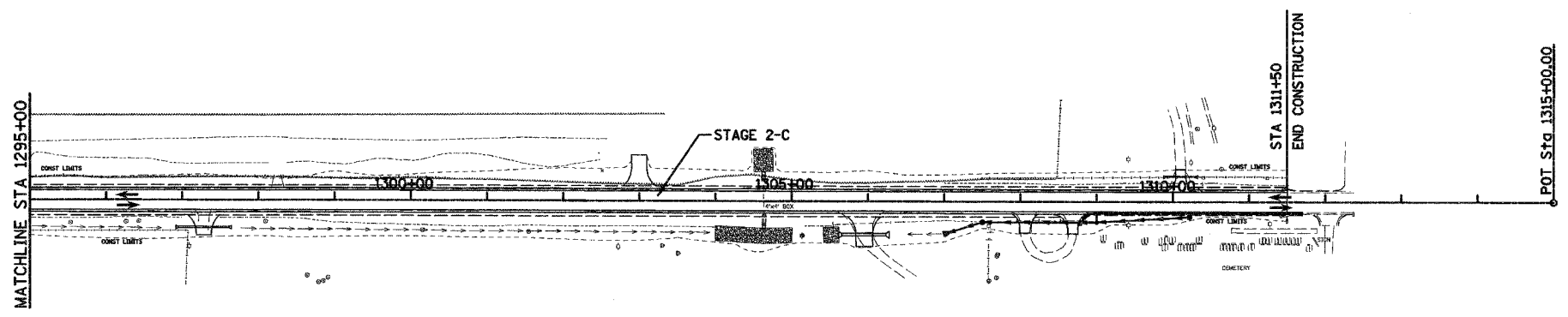
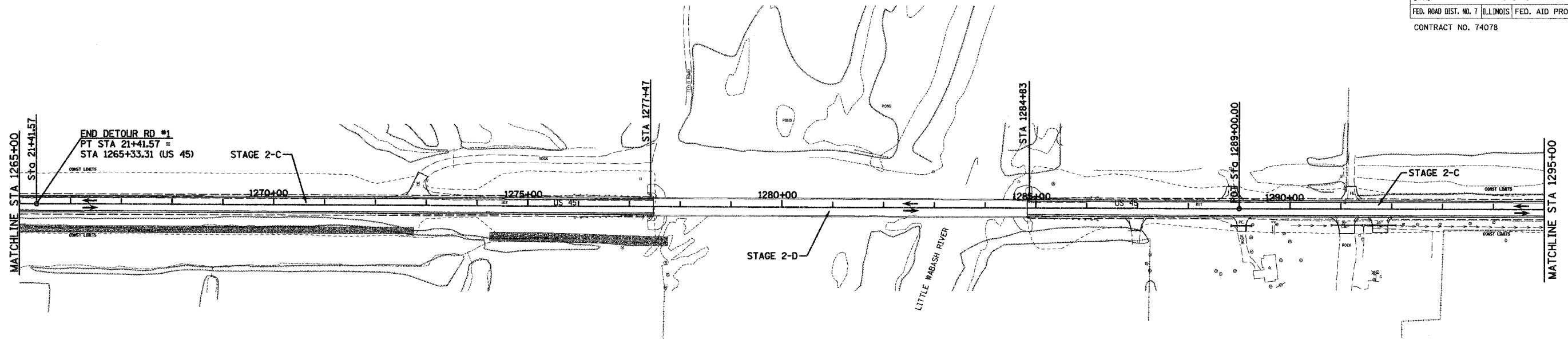
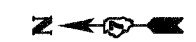
STAGE 2 CONSTRUCTION

SCALE: VERT. _____
HORIZ. _____
DATE: 10-21-05

DRAWN BY: LJ
CHECKED BY: MAR



F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
328	5R, Y, RS-1	CLAY	242	26
STA.		TO STA.		
FED. ROAD DIST. NO. 7		ILLINOIS FED. AID PROJECT		
CONTRACT NO. 74078				



REVISIONS	
NAME	DATE

ILLINOIS DEPARTMENT OF TRANSPORTATION

STAGE 2 CONSTRUCTION

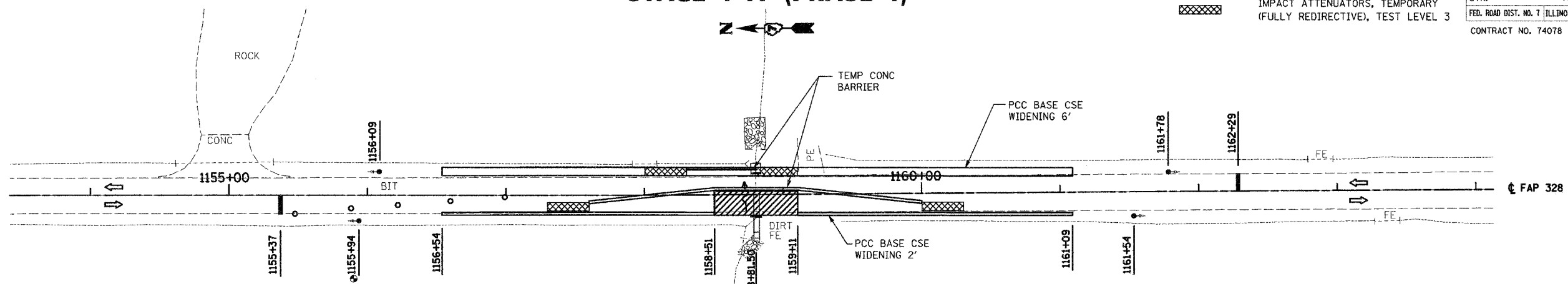
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 HORIZ. CHECKED BY: MAR
 DATE: 10-21-05

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STAGE 1-A (PHASE 1)

PAVEMENT PATCH
 IMPACT ATTENUATORS, TEMPORARY (FULLY REDIRECTIVE), TEST LEVEL 3

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
328	5R, Y, RS-1	CLAY	242	27
STA.		TO STA.		
FED. ROAD DIST. NO. 7 [ILLINOIS] FED. AID PROJECT				
CONTRACT NO. 74078				

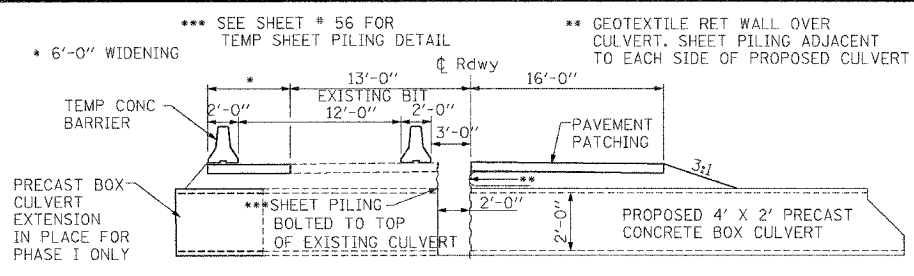


- PAVEMENT PATCHING, TYPE IV, 10 INCH**
RT 1158+51 TO RT 1159+11 100 SQ YD
- TEMPORARY CONCRETE BARRIER (STATE OWNED)**
LT 1158+30 TO 1158+80 50 FT
CL 1157+60 TO 1160+00 240 FT
- IMPACT ATTENUATORS, TEMPORARY (FULLY REDIRECTIVE), TEST LEVEL 3**
LT 1158+30 1 EACH
LT 1158+80 1 EACH
CL 1157+60 1 EACH
CL 1160+00 1 EACH
- TEMPORARY BRIDGE TRAFFIC SIGNAL**
1 EACH

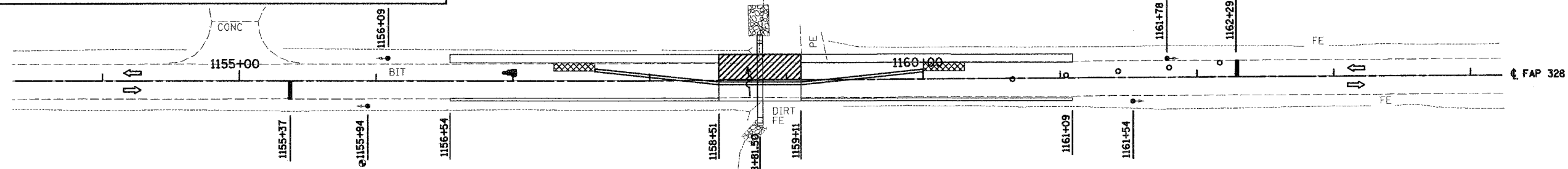
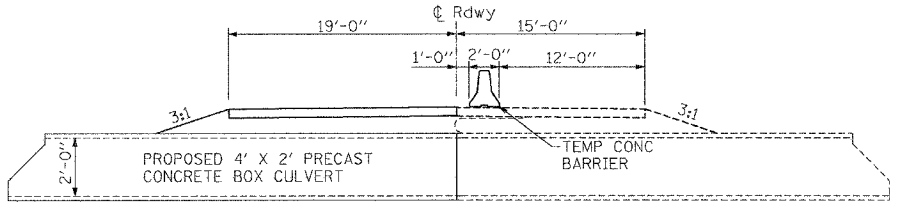
NOTE:
 ALL TRAFFIC CONTROL SHALL BE IN ACCORDANCE WITH STANDARD 701321.

SUGGESTED SEQUENCE (MAJOR ITEMS NOTED)
 CONSTRUCT BOX CULVERT EXTENSION AND COLLATERAL EARTHWORK FOR SHOULDER WIDENING.
 CONSTRUCT PCC BASE CSE WIDENING ALONG WEST EDGE OF SHOULDER AND REMOVE GUARDRAIL.
 CONSTRUCT PCC BASE COURSE WIDENING ALONG EAST EDGE OF SHOULDER. INSTALL TEMPORARY TRAFFIC SIGNALS.
 INSTALL SHEET PILING (SEE TEMP SHEET PILING DETAIL SHEET).
 SET TEMPORARY CONCRETE BARRIERS (STD 704001) FOR PHASE ONE.
 CONSTRUCT NEW BOX CULVERT ON WEST SIDE TO 1'-0" WEST OF CENTERLINE.
 CONSTRUCT GEOTEXTILE RETAINING WALL AND PAVEMENT ON WEST SIDE. SWITCH TRAFFIC TO WEST SIDE.
 REMOVE SHEET PILING IN PLACE FOR PHASE 1 (SEE PILING DETAIL SHEET).
 CONSTRUCT REMAINDER OF NEW BOX CULVERT AND PAVEMENT ON EAST SIDE.
 REMOVE REMAINING STAGING ITEMS.
 ANY CHANGES TO STAGING SHALL BE APPROVED BY THE ENGINEER.

- PCC BASE COURSE WIDENING 6" 6'-0" WIDTH**
LT 1156+54 TO LT 1161+09 303 SQ YD
- TEMPORARY PRECAST CONCRETE BOX CULVERT 4'X2'**
LT 1158+80.50 6 FT
- PCC BASE COURSE WIDENING 6" 2'-0" WIDTH**
RT 1156+54 TO RT 1158+51 44 SQ YD
RT 1159+11 TO RT 1161+09 44 SQ YD
- WORK ZONE PAVEMENT MARKING REMOVAL**
CL 1157+89 TO 1159+76 62 SQ FT
LT 1157+21 TO 1160+41 107 SQ FT
- TEMPORARY RUMBLE STRIPS**
RT 1138+37 1 EACH LT 1169+29 1 EACH
RT 1143+37 1 EACH LT 1174+29 1 EACH
RT 1148+37 1 EACH LT 1179+29 1 EACH
- TEMPORARY PAVEMENT MARKING - LINE 4'**
CL 1157+89 TO 1159+76 187 FT
LT 1157+21 TO 1160+41 320 FT

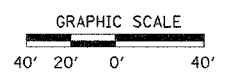
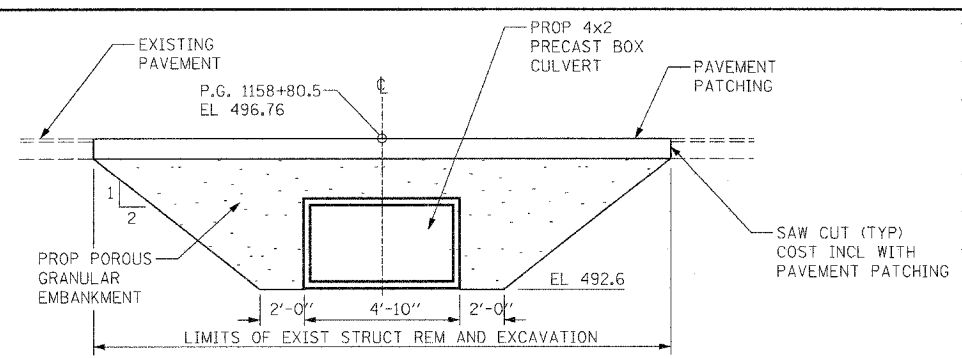


STAGE 1-A (PHASE 2)



- PAVEMENT PATCHING, TYPE IV, 10 INCH**
RT 1158+51 TO RT 1159+11 127 SQ YD
- WORK ZONE PAVEMENT MARKING REMOVAL**
CL 1158+01 TO 1159+58 52 SQ FT
RT 1157+21 TO 1160+41 107 SQ FT
- TEMPORARY PAVEMENT MARKING - LINE 4'**
CL 1158+01 TO 1159+58 157 FT
RT 1157+21 TO 1160+41 320 FT

- IMPACT ATTENUATORS, RELOCATE (FULLY REDIRECTIVE), TEST LEVEL 3**
CL 1157+60 1 EACH
CL 1160+00 1 EACH
- RELOCATE TEMPORARY CONCRETE BARRIER (STATE OWNED)**
CL 1157+60 TO 1160+00 240 FT



REVISIONS	
NAME	DATE

ILLINOIS DEPARTMENT OF TRANSPORTATION

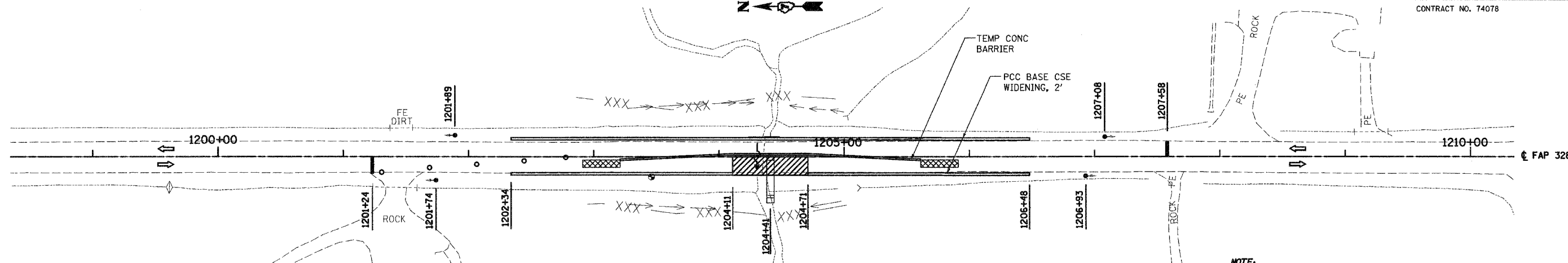
STAGE 1 CONSTRUCTION BOX CULVERT STA 1158 + 80.50

SCALE: VERT. HORIZ. DATE: 10-21-05 DRAWN BY: LJ CHECKED BY: MAR

STAGE 1-A (PHASE 1)

PAVEMENT PATCH
 IMPACT ATTENUATORS, TEMPORARY (FULLY REDIRECTIVE), TEST LEVEL 3

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
328	5R, Y, RS-1	CLAY	242	28
STA.		TO STA.		
FED. ROAD DIST. NO. 7		ILLINOIS	FED. AID PROJECT	
CONTRACT NO. 74078				



PAVEMENT PATCHING, TYPE IV, 10 INCH
 RT 1204+11 TO RT 1204+71 100 SQ YD

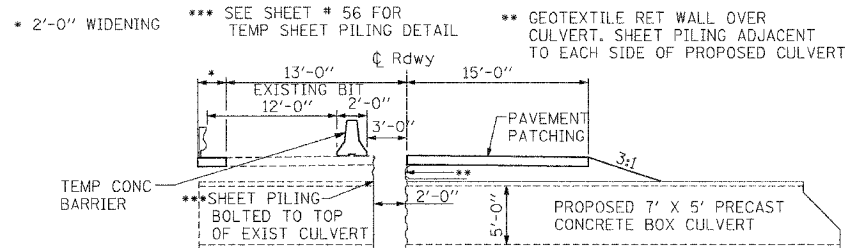
NOTE:
 ALL TRAFFIC CONTROL SHALL BE IN ACCORDANCE WITH STANDARD 701321.

TEMPORARY CONCRETE BARRIER (STATE OWNED)
 CL 1203+21 TO 1205+61 240 FT

SUGGESTED SEQUENCE (MAJOR ITEMS NOTED)
 CONSTRUCT PCC BASE CSE WIDENING ALONG EAST AND WEST EDGES OF SHLDR. INSTALL TEMPORARY TRAFFIC SIGNALS. INSTALL SHEET PILING (SEE TEMP SHEET PILING DETAIL SHEET). SET TEMPORARY CONCRETE BARRIERS (STD 704001) FOR PHASE 1. CONSTRUCT NEW BOX CULVERT ON WEST SIDE TO 1'-0" WEST OF CENTERLINE. CONSTRUCT GEOTEXTILE RETAINING WALL AND PAVEMENT ON WEST SIDE. SWITCH TRAFFIC TO WEST SIDE. REMOVE SHEET PILING IN PLACE FOR PHASE 1 (SEE PILING DETAIL SHEET). CONSTRUCT REMAINDER OF NEW BOX CULVERT AND PAVEMENT ON EAST SIDE. REMOVE REMAINING STAGING ITEMS. ANY CHANGES TO STAGING SHALL BE APPROVED BY THE ENGINEER.

IMPACT ATTENUATORS, TEMPORARY (FULLY REDIRECTIVE), TEST LEVEL 3
 CL 1203+21 1 EACH
 CL 1205+61 1 EACH

TEMPORARY BRIDGE TRAFFIC SIGNALS
 1 EACH



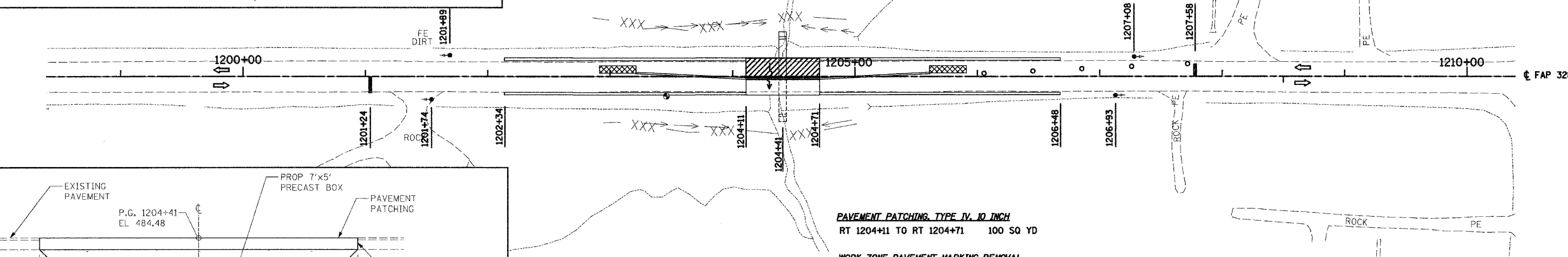
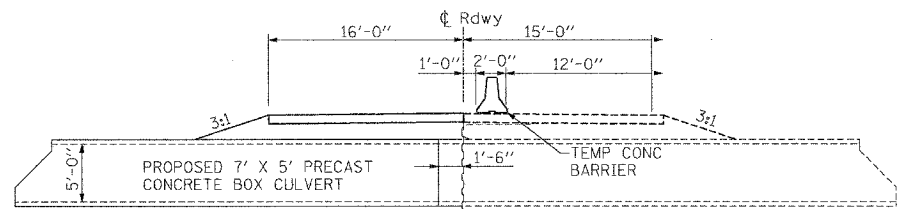
PCC BASE COURSE WIDENING 6"
 2'-0" WIDTH
 LT 1202+34 TO LT 1206+48 92 SQ YD
 RT 1202+34 TO RT 1204+11 39 SQ YD
 RT 1204+71 TO RT 1206+48 39 SQ YD

WORK ZONE PAVEMENT MARKING REMOVAL
 CL 1203+88 TO 1205+28 47 SQ FT
 LT 1202+14 TO 1206+68 151 SQ FT

TEMPORARY RUMBLE STRIPS
 RT 1184+24 1 EACH LT 1214+58 1 EACH
 RT 1189+24 1 EACH LT 1219+58 1 EACH
 RT 1194+24 1 EACH LT 1224+58 1 EACH

TEMPORARY PAVEMENT MARKING - LINE 4"
 CL 1203+88 TO 1205+28 140 FT
 LT 1202+14 TO 1206+68 454 FT

STAGE 1-A (PHASE 2)



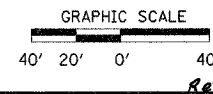
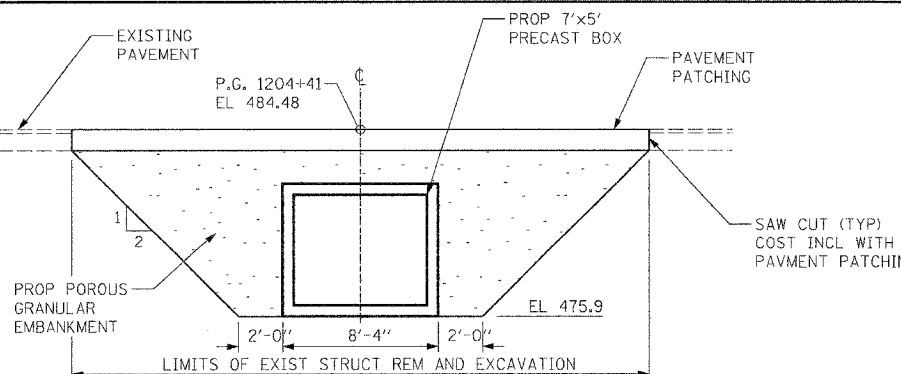
PAVEMENT PATCHING, TYPE IV, 10 INCH
 RT 1204+11 TO RT 1204+71 100 SQ YD

WORK ZONE PAVEMENT MARKING REMOVAL
 CL 1203+88 TO 1205+28 47 SQ FT
 RT 1202+14 TO 1206+68 151 SQ FT

TEMPORARY PAVEMENT MARKING - LINE 4"
 CL 1203+88 TO 1205+28 140 FT
 RT 1202+14 TO 1206+68 454 FT

IMPACT ATTENUATORS, RELOCATE (FULLY REDIRECTIVE), TEST LEVEL 3
 CL 1203+21 1 EACH
 CL 1205+61 1 EACH

RELOCATE TEMPORARY CONCRETE BARRIER (STATE OWNED)
 CL 1203+21 TO 1205+61 240 FT



REVISIONS	
NAME	DATE

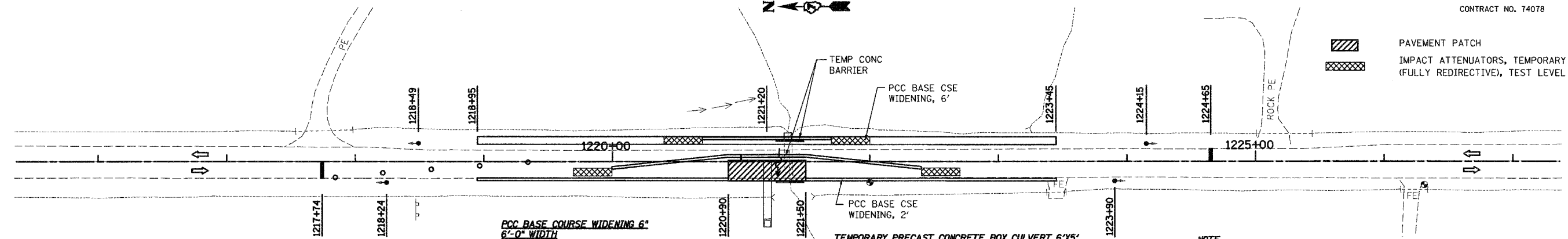
ILLINOIS DEPARTMENT OF TRANSPORTATION

STAGE 1 CONSTRUCTION BOX CULVERT STA 1204+41

SCALE: VERT. HORIZ. DATE: 10-21-05 DRAWN BY: IJ CHECKED BY: MAR

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
328	5R, Y, RS-1	CLAY	242	29
STA.		TO STA.		
FED. ROAD DIST. NO. 7		ILLINOIS	FED. AID PROJECT	
CONTRACT NO. 74078				

STAGE 1-A (PHASE 1)



- PAVEMENT PATCH
- IMPACT ATTENUATORS, TEMPORARY (FULLY REDIRECTIVE), TEST LEVEL 3

PCC BASE COURSE WIDENING 6" 6'-0" WIDTH
 LT 1218+95 TO LT 1223+45 300 SQ YD

PCC BASE COURSE WIDENING 6" 2'-0" WIDTH
 RT 1218+95 TO RT 1220+90 43 SQ YD
 RT 1221+50 TO RT 1223+45 43 SQ YD

TEMPORARY PRECAST CONCRETE BOX CULVERT 6x5'
 LT 1221+37 6 FT

PAVEMENT PATCHING, TYPE IV, 10 INCH
 RT 1220+90 TO RT 1221+50 93 SQ YD

TEMPORARY CONCRETE BARRIER (STATE OWNED)
 CL 1220+00 TO 1222+40 240 FT
 LT 1220+70 TO 1221+70 100 FT

NOTE:
 ALL TRAFFIC CONTROL SHALL BE IN ACCORDANCE WITH STANDARD 701321.

SUGGESTED SEQUENCE (MAJOR ITEMS NOTED)
 CONSTRUCT BOX CULVERT EXTENSION AND COLLATERAL EARTHWORK FOR SHOULDER WIDENING.
 CONSTRUCT PCC BASE CSE WIDENING ALONG WEST EDGE OF SHOULDER AND REMOVE GUARDRAIL.
 CONSTRUCT PCC BASE COURSE WIDENING ALONG EAST EDGE OF SHOULDER.
 INSTALL TEMPORARY TRAFFIC SIGNALS.
 SET TEMPORARY CONCRETE BARRIERS (STD 704001) FOR PHASE ONE.
 CONSTRUCT NEW BOX CULVERT ON WEST SIDE TO 1'-0" WEST OF CENTERLINE.
 CONSTRUCT GEOTEXTILE RETAINING WALL AND PAVEMENT ON WEST SIDE.
 SWITCH TRAFFIC TO WEST SIDE.
 REMOVE SHEET PILING IN PLACE FOR PHASE 1 (SEE PILING DETAIL SHEET).
 CONSTRUCT REMAINDER OF NEW BOX CULVERT AND PAVEMENT ON EAST SIDE.
 REMOVE REMAINING STAGING ITEMS.
 ANY CHANGES TO STAGING SHALL BE APPROVED BY THE ENGINEER.

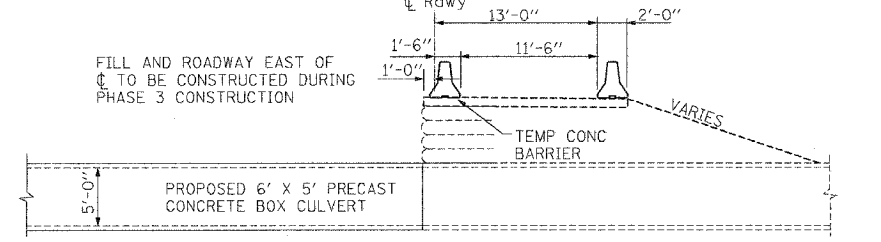
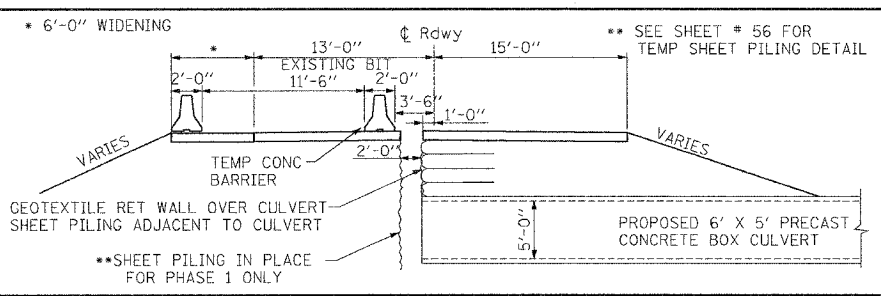
TEMPORARY RUMBLE STRIPS
 RT 1200+74 1 EACH LT 1231+65 1 EACH
 RT 1205+74 1 EACH LT 1236+65 1 EACH
 RT 1210+74 1 EACH LT 1241+65 1 EACH

WORK ZONE PAVEMENT MARKING REMOVAL
 CL 1220+23 TO 1222+18 65 SQ FT
 LT 1218+95 TO 1223+45 150 SQ FT

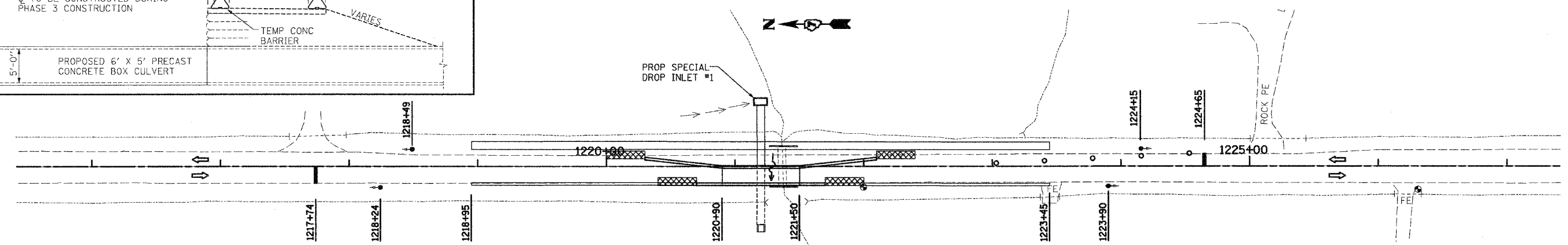
TEMPORARY PAVEMENT MARKING - LINE 4"
 CL 1220+23 TO 1222+18 195 FT
 LT 1218+95 TO 1223+45 450 FT

IMPACT ATTENUATORS, TEMPORARY (FULLY REDIRECTIVE), TEST LEVEL 3
 CL 1220+00 1 EACH
 CL 1222+40 1 EACH
 LT 1220+70 1 EACH
 LT 1221+70 1 EACH

TEMPORARY BRIDGE TRAFFIC SIGNAL
 1 EACH



STAGE 1-A (PHASE 2)



PROP SPECIAL DROP INLET #1

IMPACT ATTENUATORS, RELOCATE (FULLY REDIRECTIVE), TEST LEVEL 3

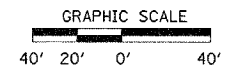
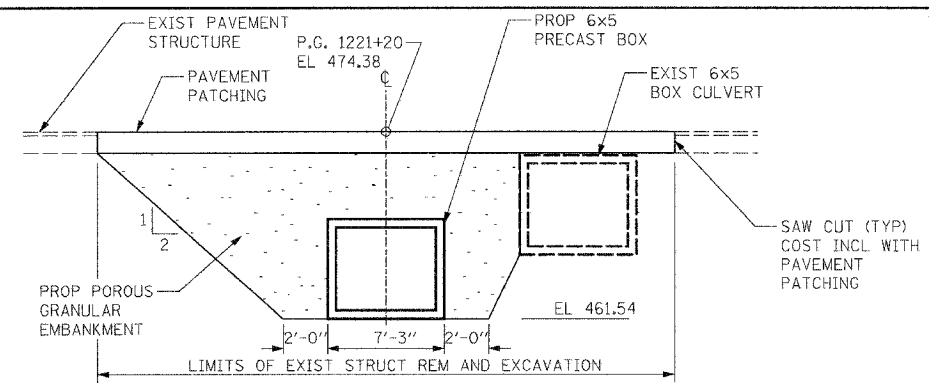
RT 1220+70 1 EACH
 RT 1221+70 1 EACH
 CL 1220+30 1 EACH
 CL 1222+10 1 EACH

RELOCATE TEMPORARY CONCRETE BARRIER (STATE OWNED)

CL 1220+30 TO 1222+10 180 FT
 RT 1220+70 TO 1221+70 100 FT

TEMPORARY PAVEMENT MARKING - LINE 4"

CL 1220+71 TO 1221+68 97 FT
 RT 1218+95 TO 1223+45 450 FT



REVISIONS	
NAME	DATE

ILLINOIS DEPARTMENT OF TRANSPORTATION



STAGE 1 CONSTRUCTION BOX CULVERT STA 1221+20

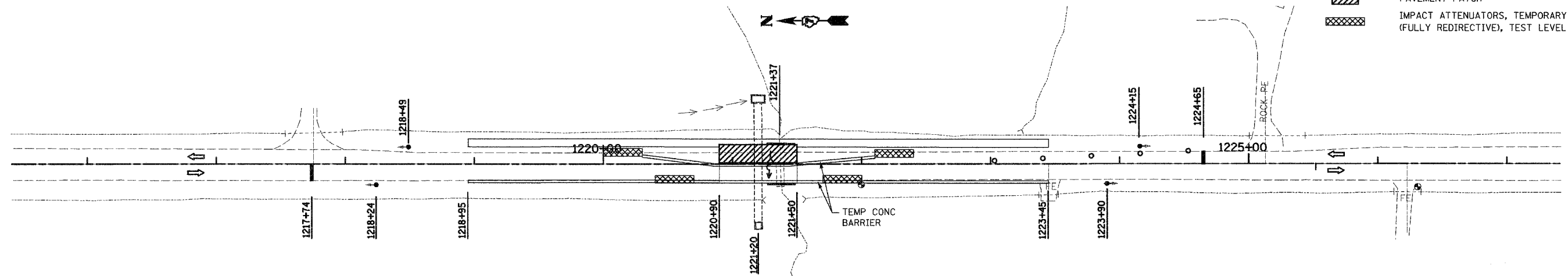
SCALE: VERT. HORIZ. DATE: 10-21-05 DRAWN BY: UJ CHECKED BY: MAR

Rev.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
328	5R, Y, RS-1	CLAY	242	30
STA.		TO STA.		
FED. ROAD DIST. NO. 7		ILLINOIS FED. AID PROJECT		
CONTRACT NO. 74078				

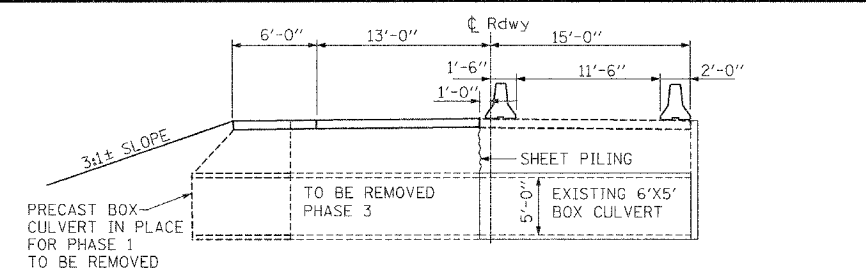
STAGE 1-A (PHASE 3)

 PAVEMENT PATCH
 IMPACT ATTENUATORS, TEMPORARY (FULLY REDIRECTIVE), TEST LEVEL 3



NOTE:
ALL TRAFFIC CONTROL SHALL BE IN ACCORDANCE WITH STANDARD 701321.

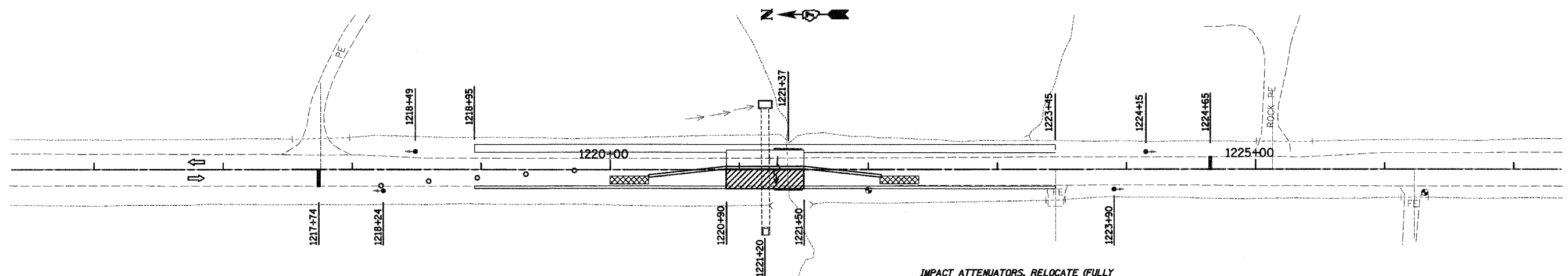
SUGGESTED SEQUENCE OF OPERATIONS
 REMOVE EXISTING CULVERT ON EAST SIDE TO 1'-0" WEST OF CENTERLINE.
 * DRIVE SHEET PILING WHERE BOX CULVERT WAS REMOVED.
 CONSTRUCT ROADWAY EAST OF CENTERLINE.
 SWITCH TRAFFIC TO EAST SIDE.
 REMOVE REMAINDER OF EXISTING BOX CULVERT ON WEST SIDE OF CENTERLINE.
 CONSTRUCT ROADWAY WEST OF CENTERLINE.
 ANY CHANGES TO STAGING SHALL BE APPROVED BY THE ENGINEER.
 * CONTINUE TEMP SHEET PILE ALIGNMENT USING A PILE TIP EL OF 457.38



PAVEMENT PATCHING, TYPE IV, 10 INCH
 RT 1220+90 TO RT 1221+50 120 SQ YD

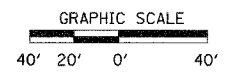
WORK ZONE PAVEMENT MARKING REMOVAL
 CL 1220+71 TO 1221+68 32 SQ FT
 RT 1218+95 TO 1223+45 150 SQ FT

STAGE 1-A (PHASE 4)



IMPACT ATTENUATORS, RELOCATE (FULLY REDIRECTIVE), TEST LEVEL 3
 CL 1220+30 1 EACH
 CL 1222+10 1 EACH

~~TEMPORARY PAVEMENT MARKING - LINE 4"~~
 CL 1220+59 TO 1221+62 123 FT
 RT 1218+95 TO 1223+45 450 FT

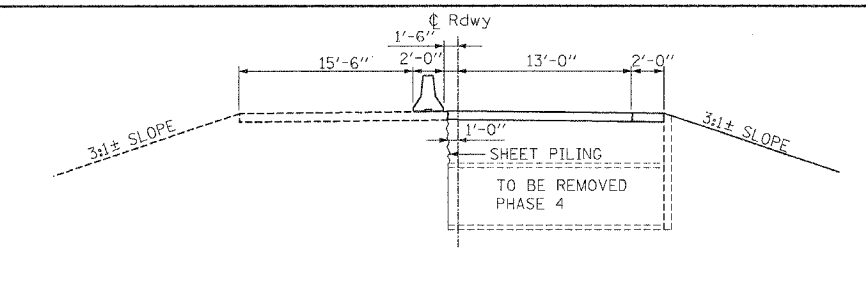


REVISIONS	
NAME	DATE

ILLINOIS DEPARTMENT OF TRANSPORTATION

STAGE 1 CONSTRUCTION BOX CULVERT REMOVAL STA 1221 + 37

SCALE: VERT. DATE: 10-21-05
 HORIZ. DRAWN BY: UJ
 CHECKED BY: MAR



PAVEMENT PATCHING, TYPE IV, 10 INCH
 RT 1220+00 TO RT 1222+40 107 SQ YD

RELOCATE TEMPORARY CONCRETE BARRIER (STATE OWNED)
 CL 1220+30 TO 1222+10 180 FT

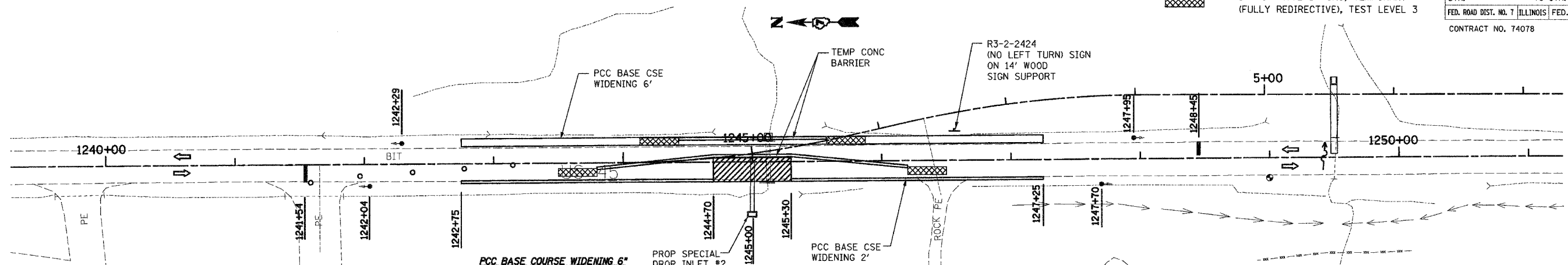
WORK ZONE PAVEMENT MARKING REMOVAL
 CL 1220+59 TO 1221+62 41 SQ FT
 RT 1218+95 TO 1223+45 150 SQ FT

Rev.

STAGE 1-A (PHASE 1)

PAVEMENT PATCH
 IMPACT ATTENUATORS, TEMPORARY
 (FULLY REDIRECTIVE), TEST LEVEL 3

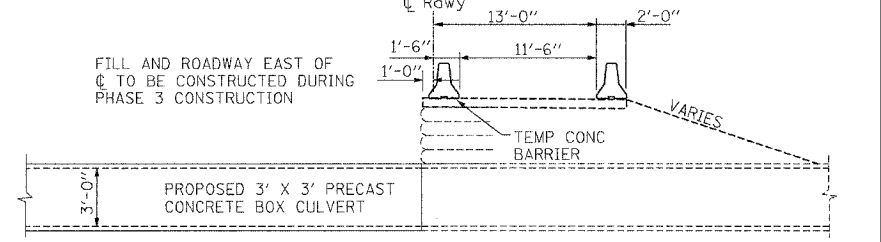
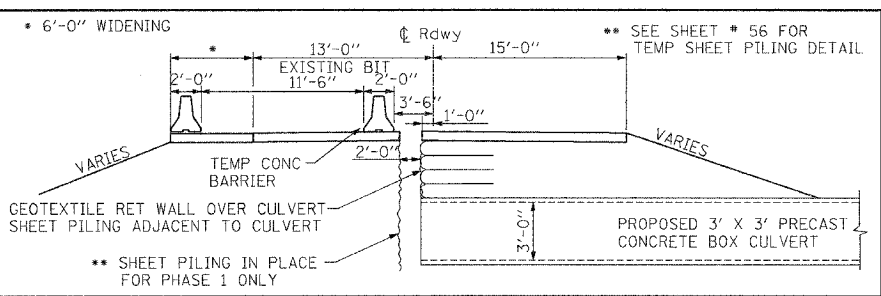
F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
328	5R, Y, RS-1	CLAY	242	31
STA. _____		TO STA. _____		
FED. ROAD DIST. NO. 7 ILLINOIS FED. AID PROJECT				
CONTRACT NO. 74078				



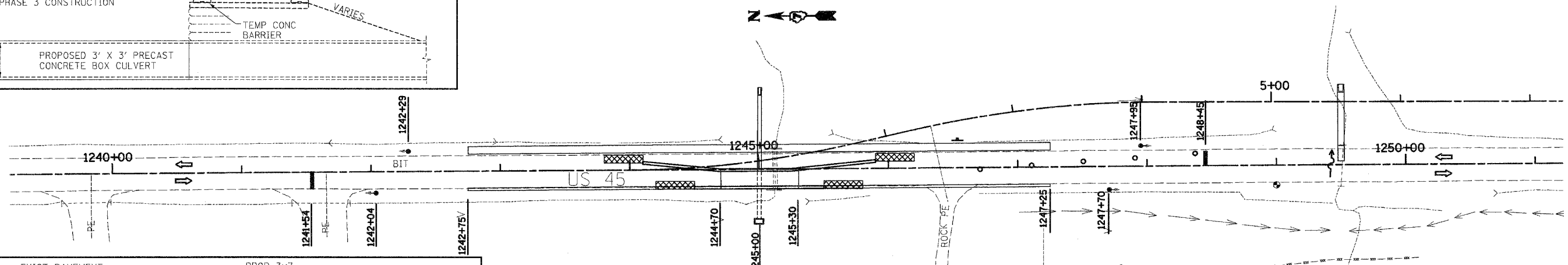
- PCC BASE COURSE WIDENING 6" 6'-0" WIDTH**
 LT 1242+75 TO LT 1247+25 300 SQ YD
- PCC BASE COURSE WIDENING 6" 2'-0" WIDTH**
 RT 1242+75 TO LT 1244+70 43 SQ YD
 RT 1245+30 TO RT 1247+25 43 SQ YD
- TEMPORARY PRECAST CONCRETE BOX CULVERT 3'X3'**
 LT 1245+12.30 6 FT
- PAVEMENT PATCHING, TYPE IV, 10 INCH**
 RT 1244+70 TO RT 1245+30 93 SQ YD
- TEMPORARY CONCRETE BARRIER (STATE OWNED)**
 CL 1243+80 TO 1246+20 240 FT
 LT 1244+50 TO 1245+50 100 FT
- IMPACT ATTENUATORS, TEMPORARY (FULLY REDIRECTIVE), TEST LEVEL 3**
 CL 1243+80 1 EACH
 CL 1246+20 1 EACH
 LT 1244+50 1 EACH
 LT 1245+50 1 EACH
- TEMPORARY BRIDGE TRAFFIC SIGNAL**
 1 EACH
- TEMPORARY RUMBLE STRIPS**
 RT 1224+54 1 EACH LT 1255+45 1 EACH
 RT 1229+54 1 EACH LT 1260+45 1 EACH
 RT 1234+54 1 EACH LT 1265+45 1 EACH
- WORK ZONE PAVEMENT MARKING REMOVAL**
 CL 1244+03 TO 1245+98 64 SQ FT
 LT 1242+75 TO 1247+25 149 SQ FT
- TEMPORARY PAVEMENT MARKING - LINE 4"**
 CL 1244+03 TO 1245+98 195 FT
 LT 1242+75 TO 1247+25 450 FT

NOTES:
 ALL TRAFFIC CONTROL SHALL BE IN ACCORDANCE WITH STANDARD 701321.
 THE R3-2-2424 SIGN AND WOOD POST REQUIRED AT THIS LOCATION WILL NOT BE PAID FOR SEPARATELY BUT WILL BE CONSIDERED AS INCIDENTAL TO STANDARD 701321.

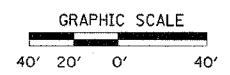
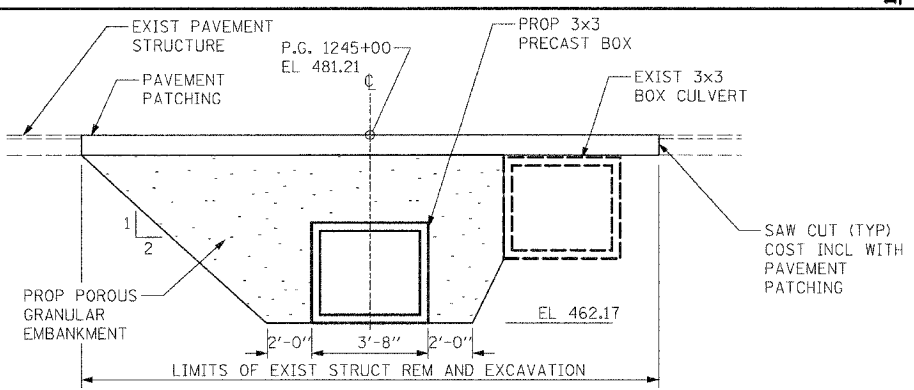
SUGGESTED SEQUENCE (MAJOR ITEMS NOTED)
 CONSTRUCT BOX CULVERT EXTENSION AND COLLATERAL EARTHWORK FOR SHOULDER WIDENING.
 CONSTRUCT PCC BASE CSE WIDENING ALONG WEST EDGE OF SHOULDER AND REMOVE GUARDRAIL.
 CONSTRUCT PCC BASE COURSE WIDENING ALONG EAST EDGE OF SHOULDER. INSTALL TEMPORARY TRAFFIC SIGNALS.
 SET TEMPORARY CONCRETE BARRIERS (STD 704001) FOR PHASE ONE. CONSTRUCT NEW BOX CULVERT ON WEST SIDE TO 1'-0" WEST OF CENTERLINE. CONSTRUCT GEOTEXTILE RETAINING WALL AND PAVEMENT ON WEST SIDE. SWITCH TRAFFIC TO WEST SIDE.
 REMOVE SHEET PILING IN PLACE FOR PHASE 1 (SEE PILING DETAIL SHEET). CONSTRUCT REMAINDER OF NEW BOX CULVERT AND PAVEMENT ON EAST SIDE. REMOVE REMAINING STAGING ITEMS.
 ANY CHANGES TO STAGING SHALL BE APPROVED BY THE ENGINEER.



STAGE 1-A (PHASE 2)



- IMPACT ATTENUATORS, RELOCATE (FULLY REDIRECTIVE), TEST LEVEL 3**
 RT 1244+50 1 EACH
 RT 1245+50 1 EACH
 CL 1244+10 1 EACH
 CL 1145+90 1 EACH
- RELOCATE TEMPORARY CONCRETE BARRIER (STATE OWNED)**
 CL 1244+10 TO 1245+90 180 FT
 RT 1244+50 TO 1245+50 100 FT
- TEMPORARY PAVEMENT MARKING - LINE 4"**
 CL 1244+51 TO 1245+48 97 FT
 RT 1242+75 TO 1247+25 450 FT





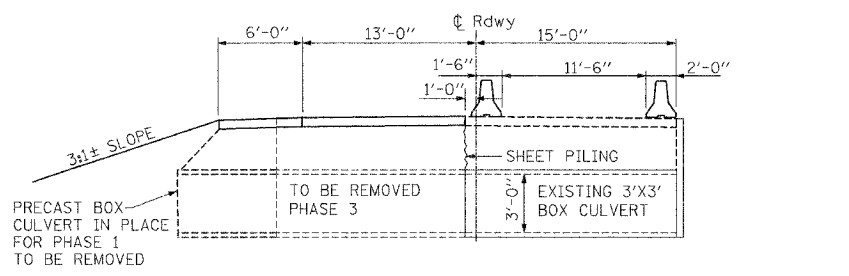
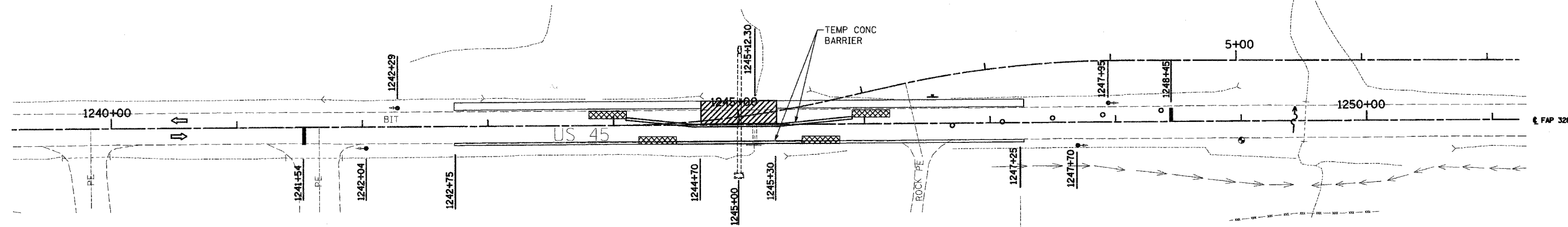
REVISIONS	
NAME	DATE

ILLINOIS DEPARTMENT OF TRANSPORTATION
STAGE 1 CONSTRUCTION BOX CULVERT STA 1245 + 00
 SCALE: VERT. _____
 HORIZ. _____
 DATE: 10-21-05
 DRAWN BY: LUJ
 CHECKED BY: MAR

STAGE 1-A (PHASE 3)

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
328	5R, Y, RS-1	CLAY	242	32
STA.		TO STA.		
FED. ROAD DIST. NO. 7		ILLINOIS FED. AID PROJECT		
CONTRACT NO. 74078				

 PAVEMENT PATCH
 IMPACT ATTENUATORS, TEMPORARY (FULLY REDIRECTIVE), TEST LEVEL 3



PAVEMENT PATCHING, TYPE IV, 10 INCH
 LT 1244+70 TO LT 1245+30 120 SQ YD

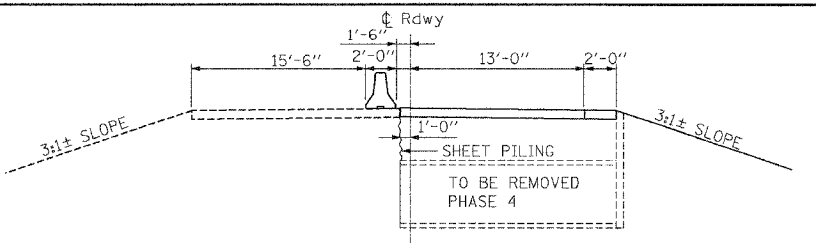
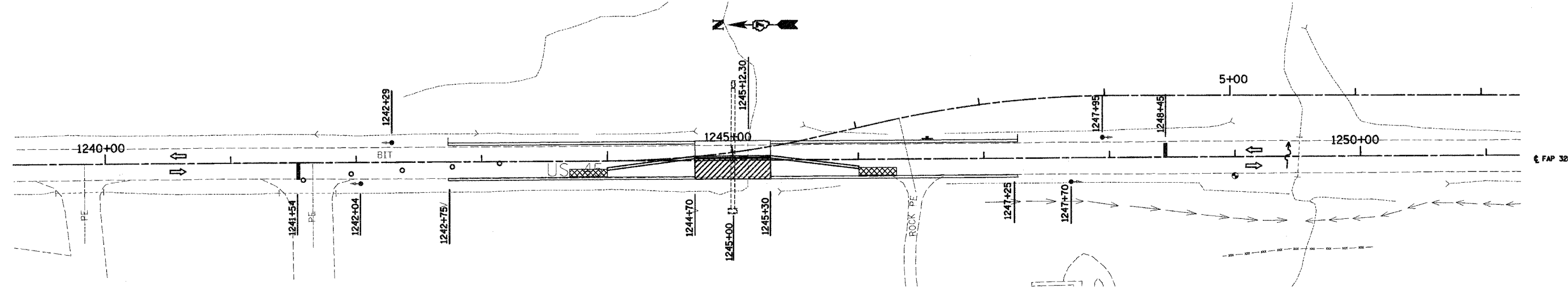
WORK ZONE PAVEMENT MARKING REMOVAL
 CL 1244+51 TO 1245+48 32 SQ FT
 LT 1242+75 TO 1223+45 149 SQ FT

NOTE:
 ALL TRAFFIC CONTROL SHALL BE IN ACCORDANCE WITH STANDARD T01321.

SUGGESTED SEQUENCE OF OPERATIONS
 REMOVE EXISTING CULVERT ON EAST SIDE TO 1'-0" WEST OF CENTERLINE.
 * DRIVE SHEET PILING WHERE BOX CULVERT WAS REMOVED.
 CONSTRUCT ROADWAY EAST OF CENTERLINE.
 SWITCH TRAFFIC TO EAST SIDE.
 REMOVE REMAINDER OF EXISTING BOX CULVERT ON WEST SIDE OF CENTERLINE.
 CONSTRUCT ROADWAY WEST OF CENTERLINE.
 ANY CHANGES TO STAGING SHALL BE APPROVED BY THE ENGINEER.

 * CONTINUE TEMP SHEET PILE ALIGNMENT USING A PILE TIP EL OF 457.38

STAGE 1-A (PHASE 4)



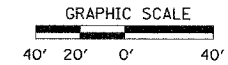
PAVEMENT PATCHING, TYPE IV, 10 INCH
 RT 1244+70 TO RT 1245+30 107 SQ YD

RELOCATE TEMPORARY CONCRETE BARRIER (STATE OWNED)
 CL 1244+00 TO 1246+00 200 FT

WORK ZONE PAVEMENT MARKING REMOVAL
 CL 1244+39 TO 1245+62 41 SQ FT
 RT 1242+75 TO 1247+25 150 SQ FT

~~TEMPORARY PAVEMENT MARKING - LINE 4"~~
 CL 1244+39 TO 1245+62 123 FT
 RT 1242+75 TO 1247+25 450 FT

IMPACT ATTENUATORS, RELOCATE (FULLY REDIRECTIVE), TEST LEVEL 3
 CL 1244+00 1 EACH
 CL 1146+00 1 EACH



REVISIONS	
NAME	DATE

ILLINOIS DEPARTMENT OF TRANSPORTATION
STAGE 1 CONSTRUCTION BOX CULVERT REMOVAL
STA 1245 + 12.30

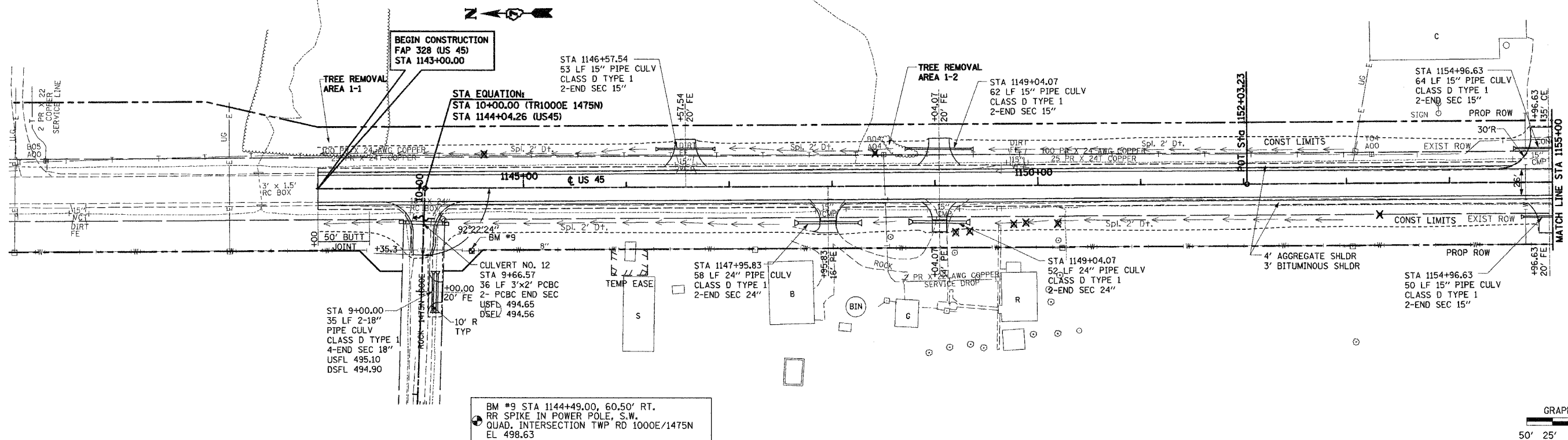
 SCALE: VERT. DATE: 10-21-05
 DRAWN BY: UJ
 CHECKED BY: MAR

Rev.

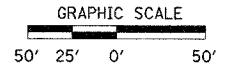
F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
328	5R, Y, RS-1	CLAY	242	33
STA. 1140+00		TO STA. 1155+00		
FED. ROAD DIST. NO. 7		ILLINOIS	FED. AID PROJECT	
CONTRACT NO. 74078				

DATE	BY	REVISION

NO.	DATE	BY	REVISION

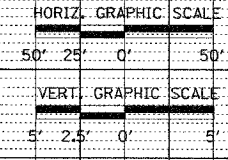
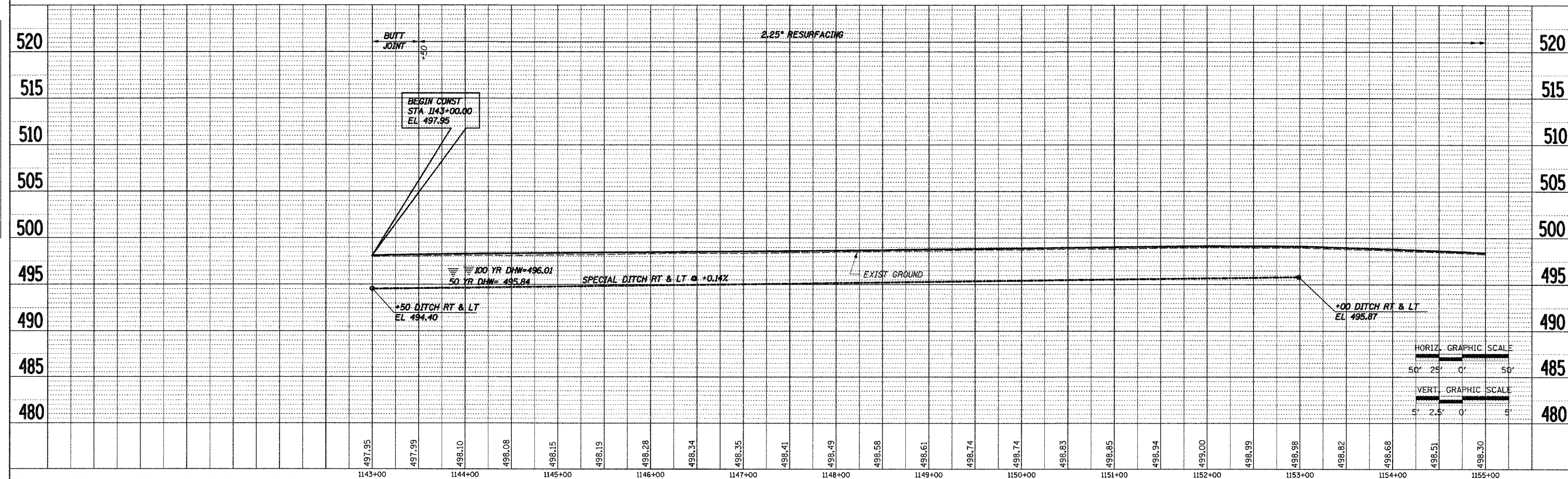


BM #9 STA 1144+49.00, 60.50' RT.
RR SPIKE IN POWER POLE, S.W.
QUAD, INTERSECTION TWP RD 1000E/1475N
EL. 498.63



DATE	BY	REVISION

NO.	DATE	BY	REVISION



STA 1143+00 TO STA 1155+00

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
328	5R, Y, RS-1	CLAY	242	34
STA. 1155+00		TO STA. 1170+00		
FED. ROAD DIST. NO. 7 ILLINOIS FED. AID PROJECT				
CONTRACT NO. 74078				

STA EQUATION:
 STA 10+00.00 (TR1000E 1430N)=
 STA 1167+47.32 (US45)

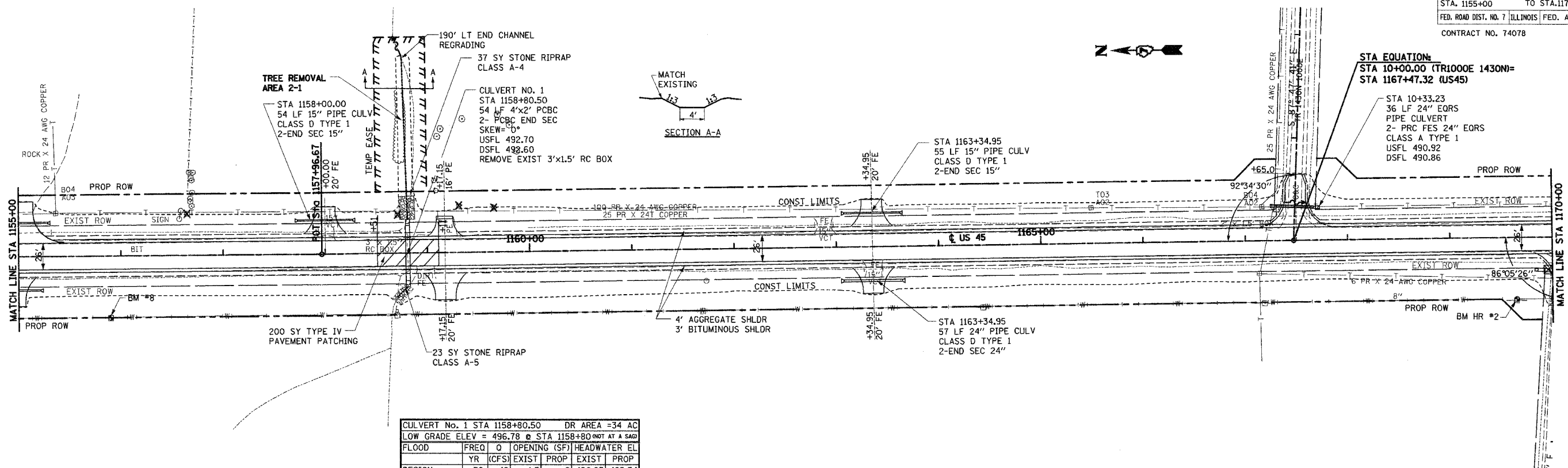
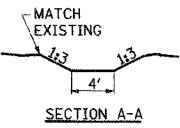
STA 10+33.23
 36 LF 24" EQRS
 PIPE CULVERT
 2- PRC FES 24" EQRS
 CLASS A TYPE 1
 USFL 490.92
 DSFL 490.86

TREE REMOVAL
 AREA 2-1
 STA 1158+00.00
 54 LF 15" PIPE CULV
 CLASS D TYPE 1
 2-END SEC 15"

CULVERT NO. 1
 STA 1158+80.50
 54 LF 4'x2' PCBC
 2- PCBC END SEC
 SKEW=0°
 USFL 492.70
 DSFL 492.60
 REMOVE EXIST 3'x1.5' RC BOX

STA 1163+34.95
 55 LF 15" PIPE CULV
 CLASS D TYPE 1
 2-END SEC 15"

STA 1163+34.95
 57 LF 24" PIPE CULV
 CLASS D TYPE 1
 2-END SEC 24"



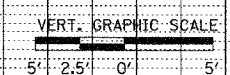
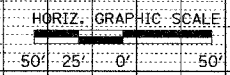
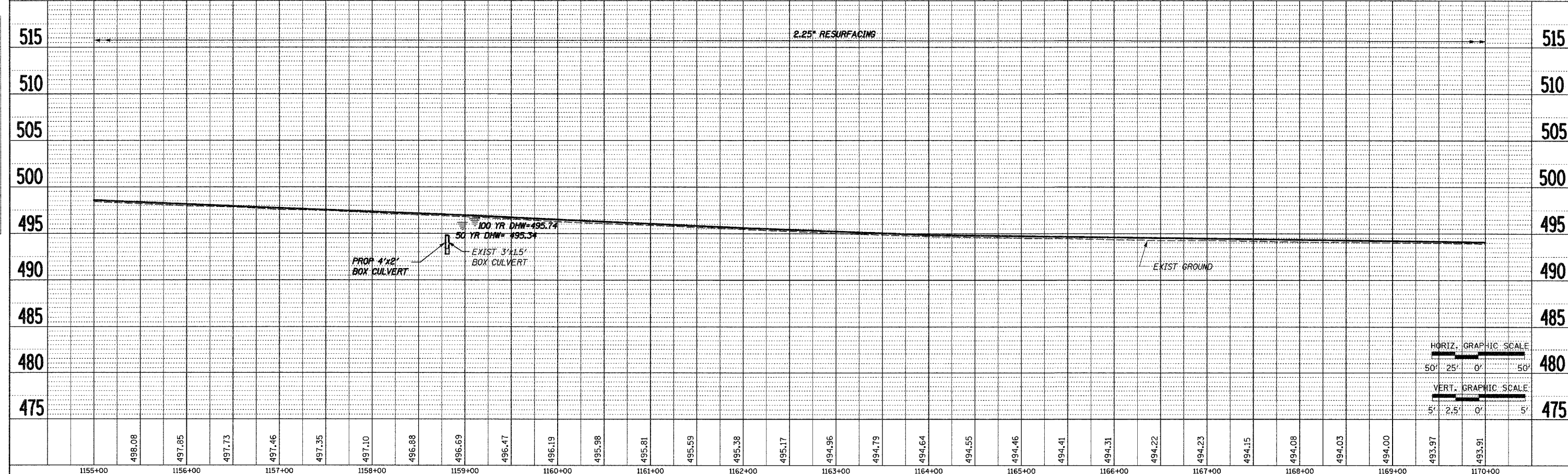
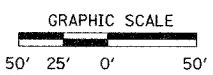
PLAN	DATE
BY	06/08
NO.	

PROFILE	DATE
BY	
NO.	

BM #8 STA 1155+90.00, 59.90' RT.
 RR SPIKE IN POWER POLE
 100' S. OF C.E. EL 498.08

CULVERT No. 1 STA 1158+80.50 DR AREA =34 AC					
LOW GRADE ELEV = 496.78 @ STA 1158+80 (NOT AT A SAG)					
FLOOD	FREQ	O	OPENING (SF)	HEADWATER EL	
	YR	(CFS)	EXIST	PROP	EXIST
DESIGN	50	48	4.5	8	496.93
BASE	100	55	4.5	8	496.97
OVERTOPPING	30	32	4.5	8	496.78
MAX CALC	500	72	4.5	8	497.04
					496.65

BM HR#2 (#7) STA 1169+65.00, 60.00' RT.
 RR SPIKE IN POWER POLE
 EL 494.50

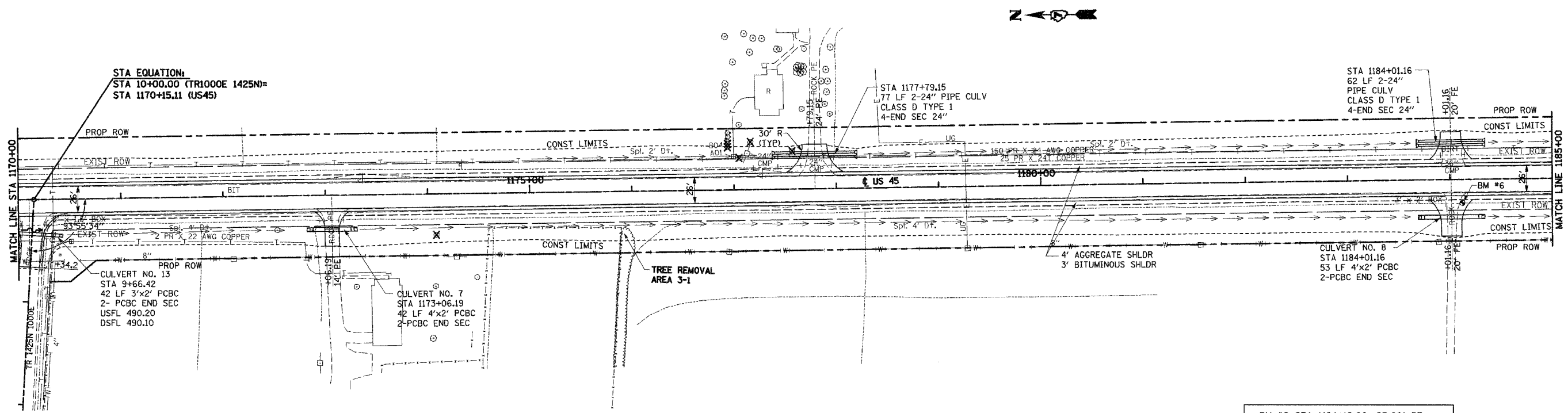


STA 1155+00 TO STA 1170+00

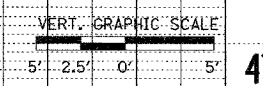
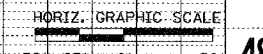
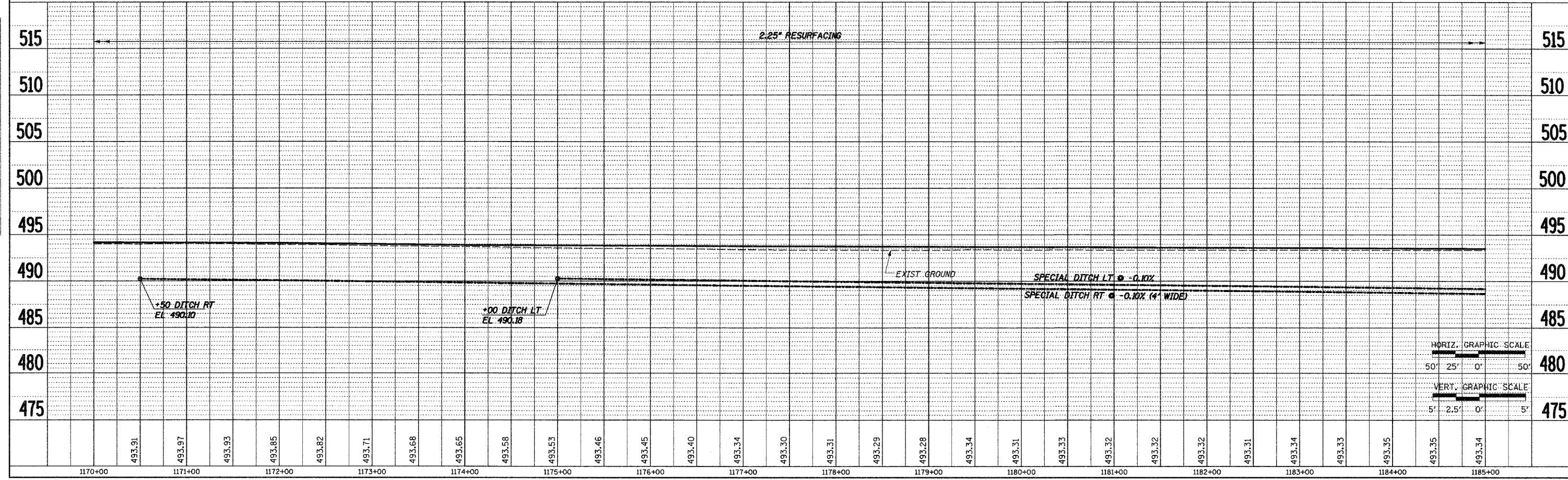
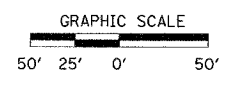
F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
328	5R, Y, RS-1	CLAY	242	35
STA. 1170+00		TO STA. 1185+00		
FED. ROAD DIST. NO. 7 ILLINOIS FED. AID PROJECT				
CONTRACT NO. 74078				

PLAN	DATE	BY
DATE	08-98	UJ
BY		
NO. 1		
NO. 2		
NO. 3		
NO. 4		
NO. 5		
NO. 6		
NO. 7		
NO. 8		
NO. 9		
NO. 10		

PROFILE	DATE	BY
DATE		
BY		
NO. 1		
NO. 2		
NO. 3		
NO. 4		
NO. 5		
NO. 6		
NO. 7		
NO. 8		
NO. 9		
NO. 10		



BM #6 STA 1184+12.00, 23.00' RT.
CHISELED "SQ" S. END RC BOX F.E.
EL 493.17



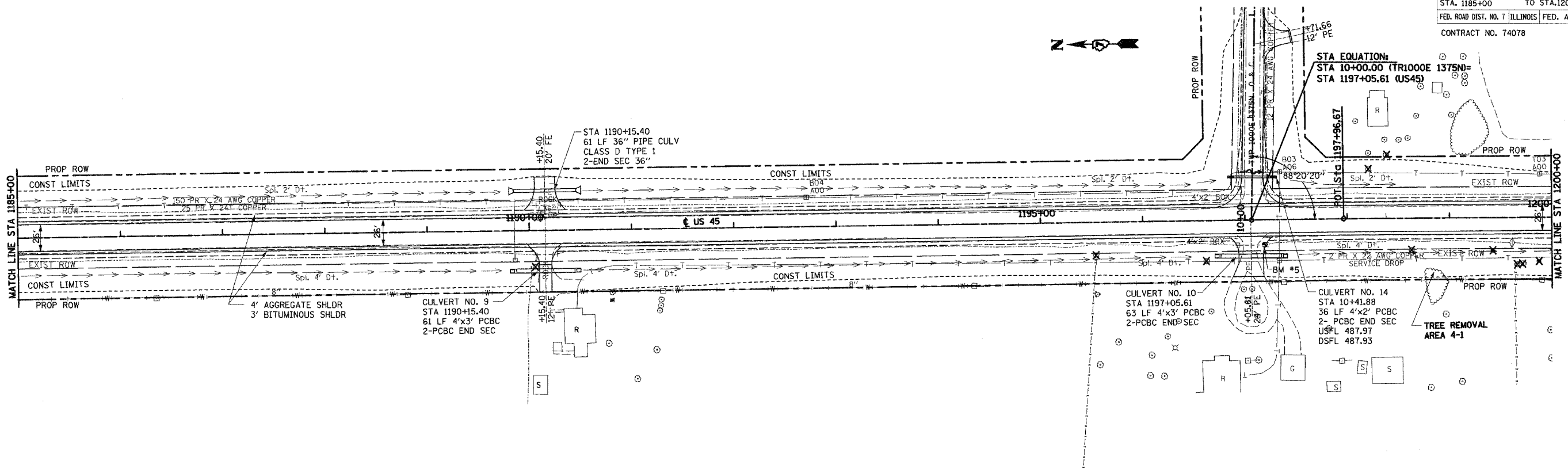
STA 1170+00 TO STA 1185+00

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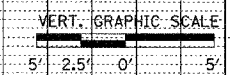
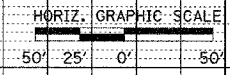
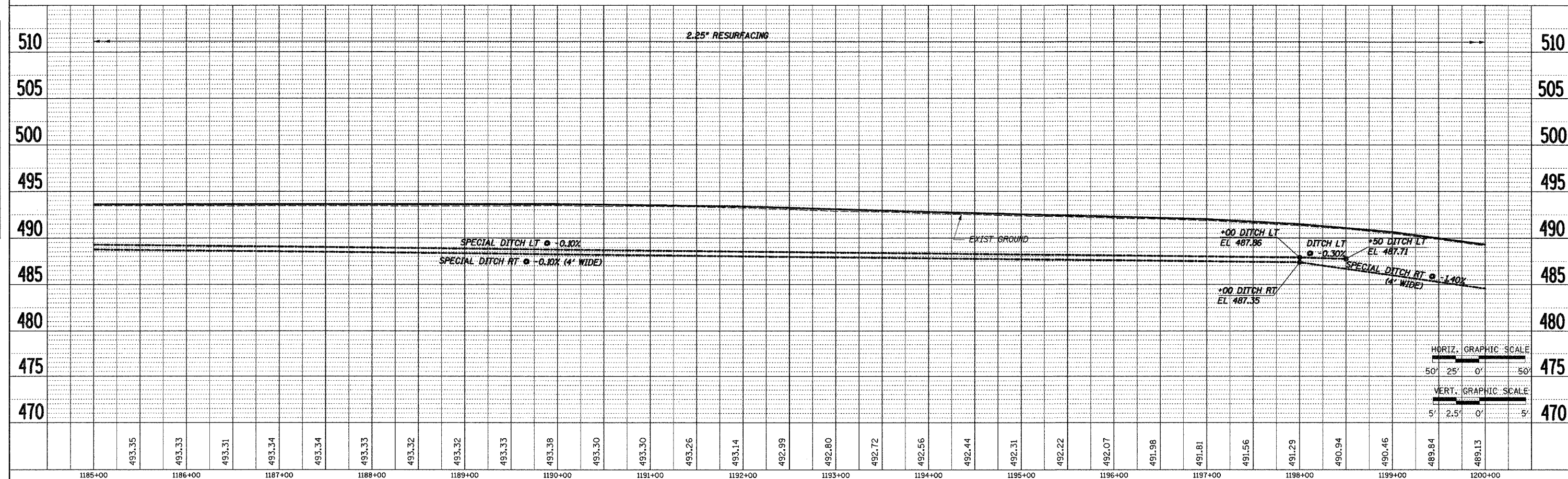
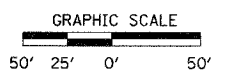
F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
328	5R, Y, RS-1	CLAY	242	36
STA. 1185+00		TO STA. 1200+00		
FED. ROAD DIST. NO. 7 (ILLINOIS)		FED. AID PROJECT		
CONTRACT NO. 74078				

DATE	BY	DATE

DATE	BY	DATE

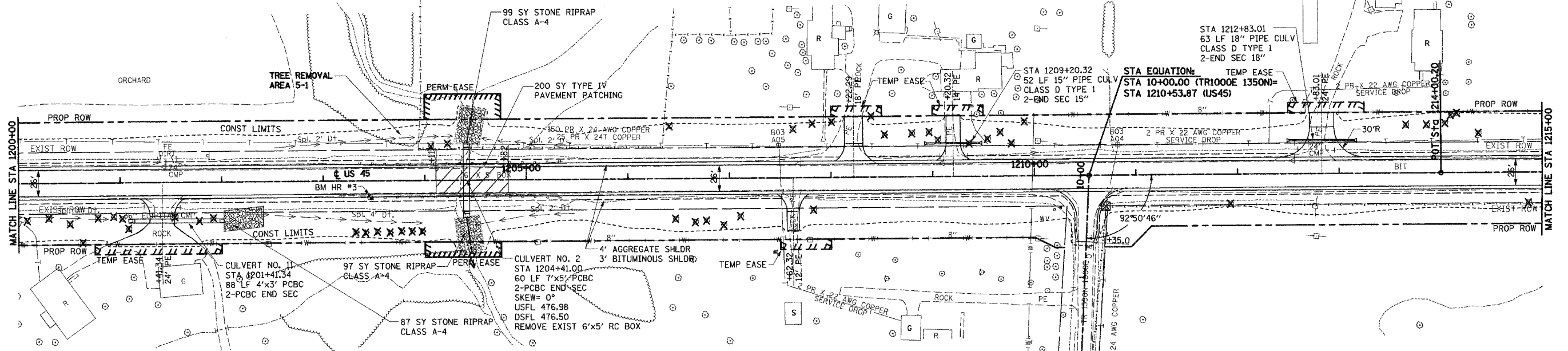


BM #5 STA 1197+19.00, 24.00' RT.
 CHISELED "SQ" SOUTH END
 RC BOX P.E EL 491.01



STA 1185+00 TO STA 1200+00

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
328	5R, Y, RS-1	CLAY	242	37
STA. 1200+00 TO STA. 1215+00		FED. ROAD DIST. NO. 7 ILLINOIS FED. AID PROJECT		
CONTRACT NO. 74078				



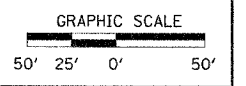
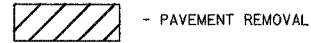
GUARDRAIL REMOVAL
 LT. STA. 1203+36.60 TO LT. 1205+34.00
 RT. STA. 1203+36.60 TO RT. 1205+34.00

CULVERT No. 2 STA 1204+41 DR AREA = 160 AC
 LOW GRADE ELEV = 484.77 @ STA 1204+00

FLOOD YR	FREQ (CFS)	EXIST	PROP	EXIST	PROP
DESIGN	50	198	30	35	482.49
BASE	100	227	30	35	483.11
OVERTOPPING	500	299	30	35	484.49
MAX CALC	500	299	30	35	484.60
					483.19

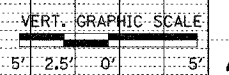
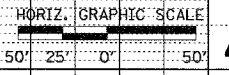
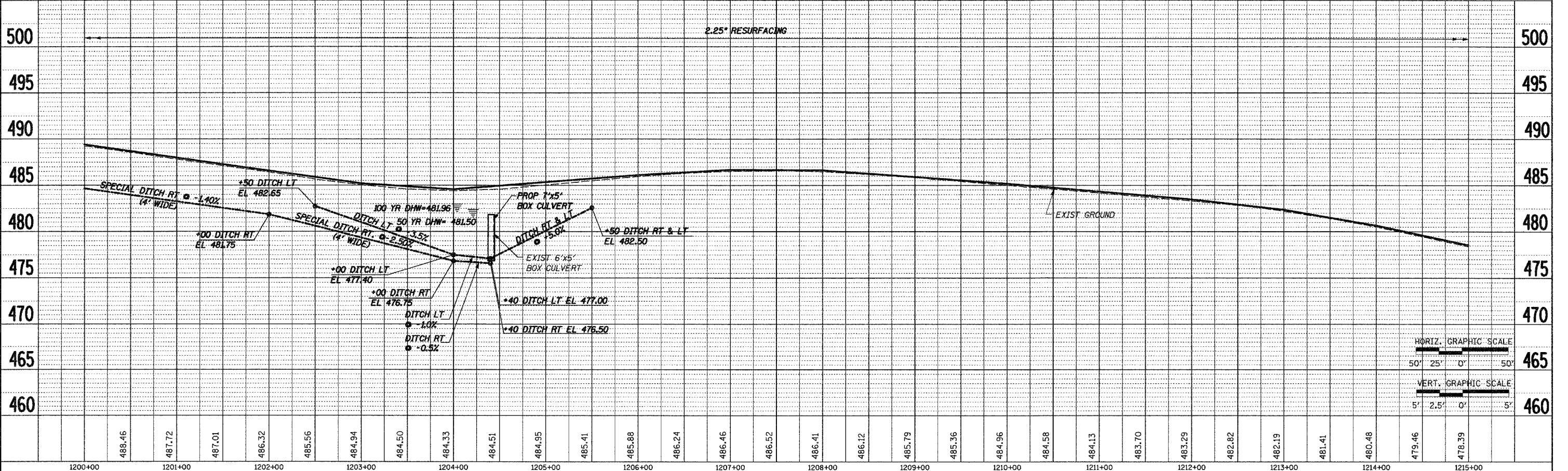
BM HR #3 STA 1203+46.00, 16.00' RT.
 TOP OF GUARDRAIL POST
 EL 490.67

LEGEND:



DATE: _____ BY: _____
 SURVEYED: _____
 PLAN: _____
 NOTE BOOK: _____
 NO. _____

DATE: _____ BY: _____
 PROFILE: _____
 GRADES CHECKED: _____
 NO. _____

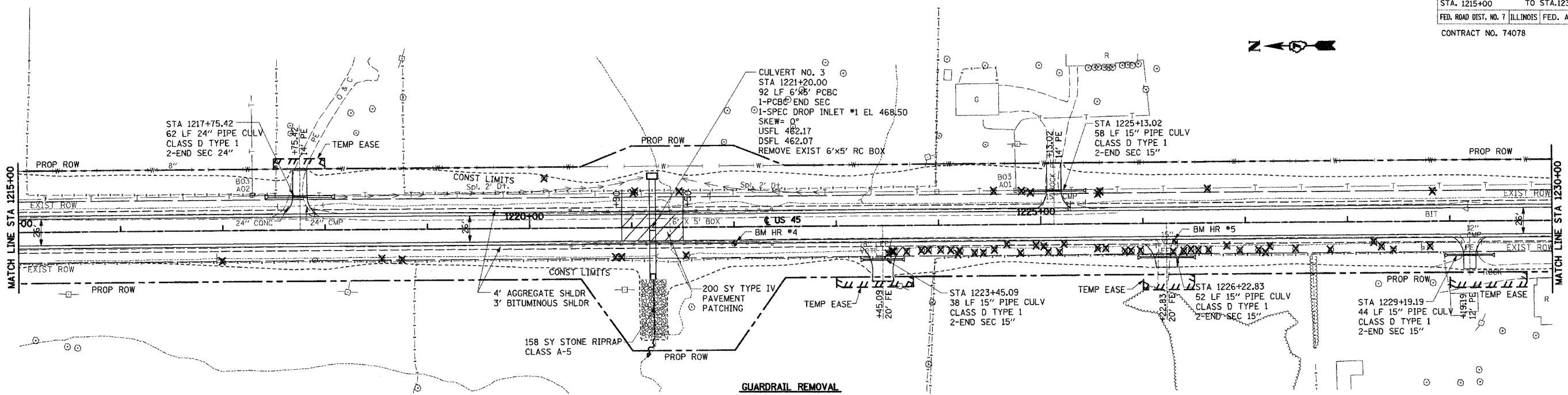


STA 1200+00 TO STA 1215+00

DATE: 10/26/2010 10:35:43 AM

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
328	5R, Y, RS-1	CLAY	242	38
STA. 1215+00		TO STA. 1230+00		
FED. ROAD DIST. NO. 7 ILLINOIS FED. AID PROJECT				
CONTRACT NO. 74078				

DATE	BY
06/09	STJ
SURVEYED	
ALIGNED	
CHECKED	
DRAWN	
FILE NAME	
NO.	
PLAN	
NOTE BOOK	
NO.	



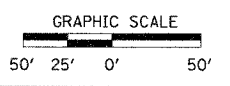
CULVERT No. 3 STA 1221+20 DR AREA = 68 AC
 LOW GRADE ELEV = 474.40 @ STA 1220+50

FLOOD	FREQ	Q	OPENING (SF)	HEADWATER EL		
YR	(CFS)	EXIST	PROP	EXIST	PROP	
DESIGN	50	179	30	30	472.46	470.90
BASE	100	208	30	30	473.08	471.16
OVERTOPPING	---	---	---	---	---	---
MAX CALC	500	279	30	30	474.47	471.73

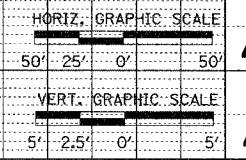
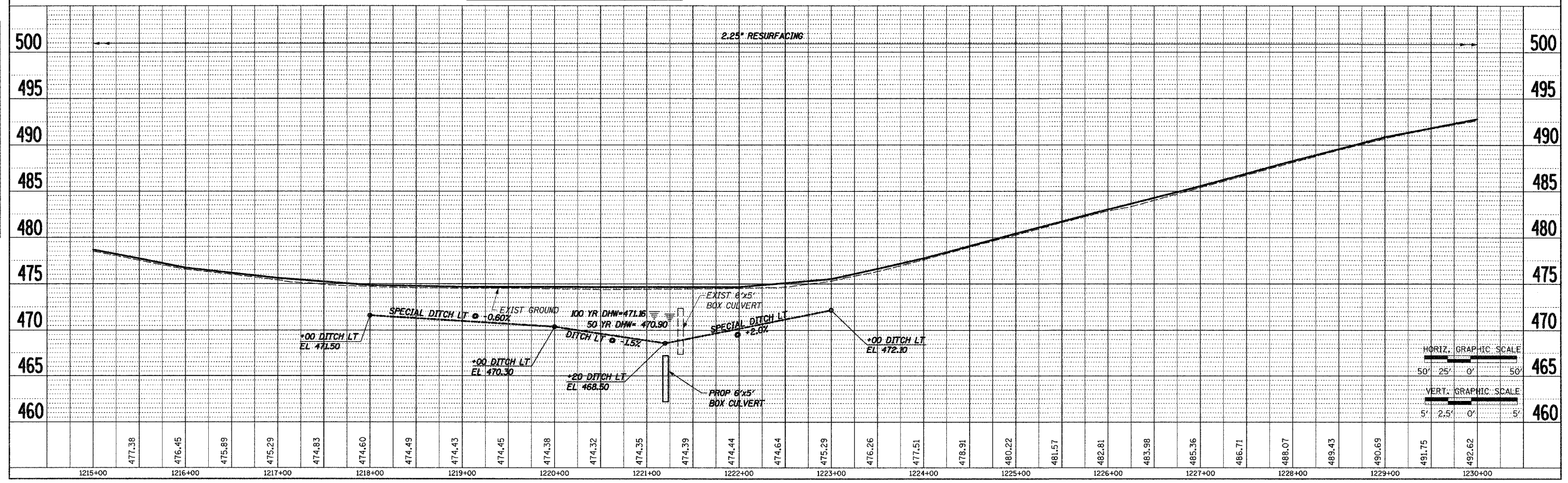
LEGEND:
 - PAVEMENT REMOVAL

GUARDRAIL REMOVAL
 LT. STA. 1220+38.60 TO LT. 1222+38.40
 RT. STA. 1220+38.60 TO RT. 1222+38.40

BM HR #5 STA 1226+31.00, 18.00' RT.
 S.E. CORNER, SOUTH HEADWALL
 PASTURE ENTRANCE EL 482.67



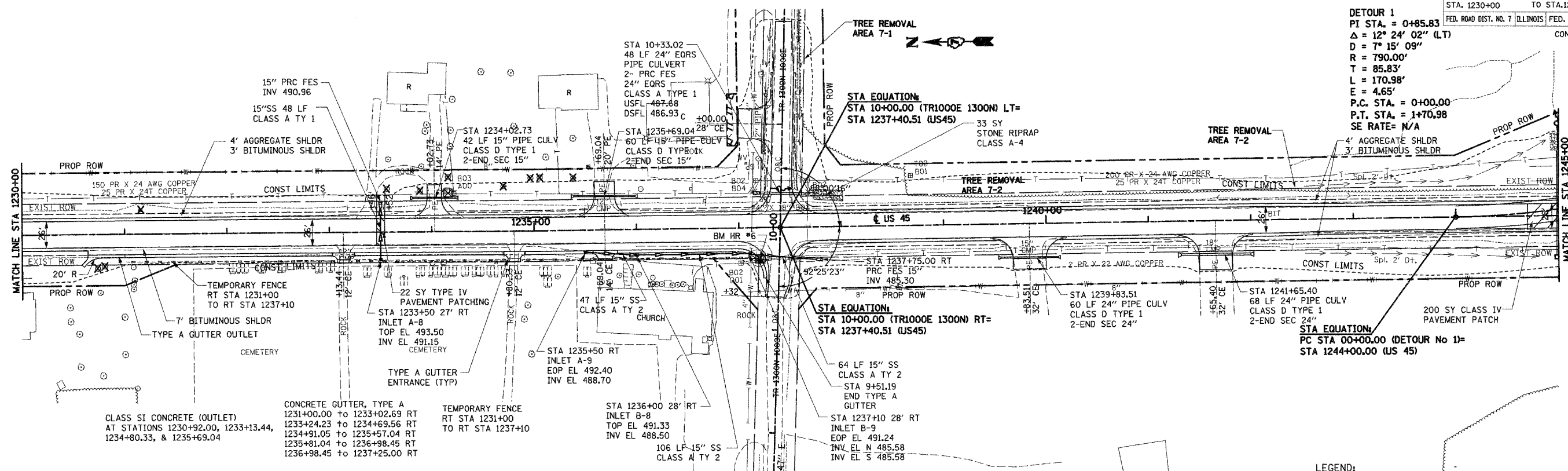
DATE	BY
SURVEYED	
GRADES CHECKED	
NOTED	
NO.	
PROFILE	
NO.	



STA 1215+00 TO STA 1230+00

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
328	SR, Y, RS-1	CLAY	242	39
STA. 1230+00 TO STA. 1245+00				
FED. ROAD DIST. NO. 7 ILLINOIS			FED. AID PROJECT	CONTRACT NO. 74078

DETOUR 1
 PI STA. = 0+85.83
 $\Delta = 12^\circ 24' 02''$ (LT)
 $D = 7^\circ 15' 09''$
 $R = 790.00'$
 $T = 85.83'$
 $L = 170.98'$
 $E = 4.65'$
 P.C. STA. = 0+00.00
 P.T. STA. = 1+70.98
 SE RATE = N/A



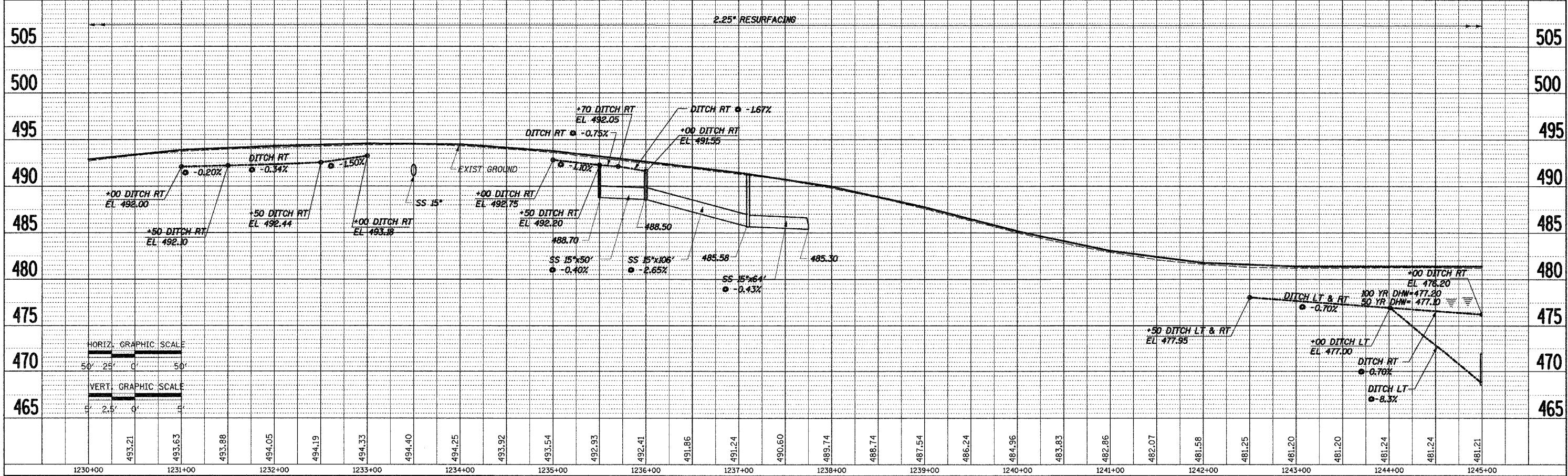
PLAN	SURVEYED	DATE
	BY	
	DATE	

PROFILE	SURVEYED	DATE
	BY	
	DATE	

BM HR #6 STA 1237+20.00, 32.00' RT.
 RR SPIKE IN POWER POLE N.W. QUAD.
 TWP RD 1000E/1300N EL 489.70

LEGEND: - PAVEMENT REMOVAL

GRAPHIC SCALE: 50' 25' 0' 50'



STA 1230+00 TO STA 1245+00

16/25/2008 10:55:57 AM

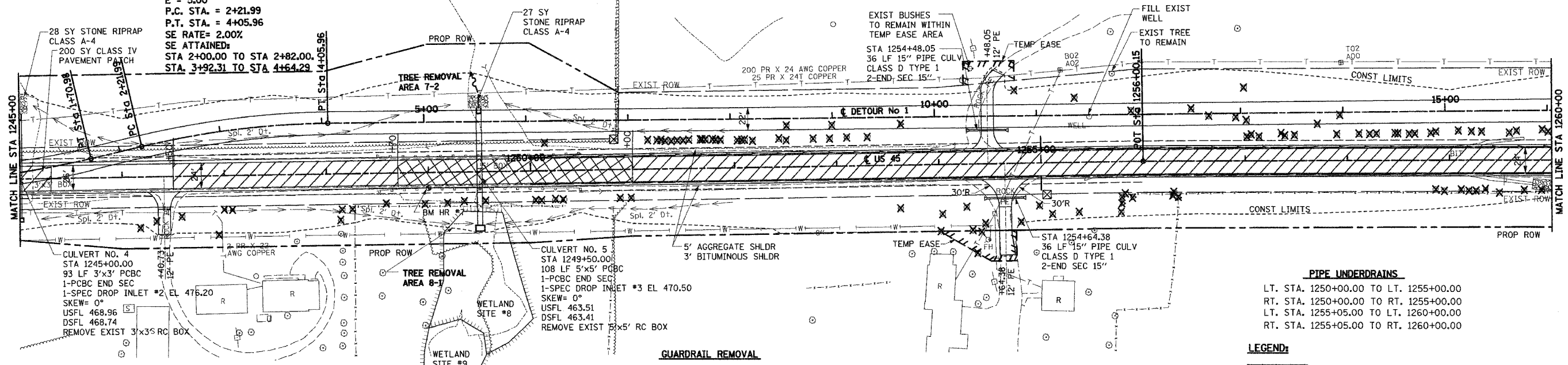
F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
328	5R, Y, RS-1	CLAY	242	40

STA. 1245+00 TO STA. 1260+00
 FED. ROAD DIST. NO. 7 ILLINOIS FED. AID PROJECT
 CONTRACT NO. 74078

CULVERT No. 4 STA 1245+00		DR AREA = 8 AC		LOW GRADE ELEV = 481.40 @ STA 1245+00	
FLOOD YR	DESIGN	EXIST	PROP	EXIST	PROP
50	23	9	9	478.31	477.10
100	27	9	9	478.53	477.20
500	35	9	9	478.99	477.39

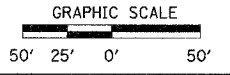
CULVERT No. 5 STA 1249+50		DR AREA = 17 AC		LOW GRADE ELEV = 481.40 @ STA 1249+50	
FLOOD YR	DESIGN	EXIST	PROP	EXIST	PROP
50	59	25	25	472.44	471.70
100	69	25	25	472.72	471.83
500	92	25	25	473.36	472.11

DETOUR 1
 PI Sta. 3+14.34
 $\Delta = 12^\circ 24' 03''$ (RT)
 $D = 6^\circ 44' 26''$
 $R = 850.00'$
 $T = 92.35'$
 $L = 183.97'$
 $E = 5.00'$
 P.C. STA. = 2+21.99
 P.T. STA. = 4+05.96
 SE RATE = 2.00%
 SE ATTAINED:
 STA 2+00.00 TO STA 2+82.00
 STA 3+92.31 TO STA 4+64.29



PIPE UNDERDRAINS
 LT. STA. 1250+00.00 TO LT. 1255+00.00
 RT. STA. 1250+00.00 TO RT. 1255+00.00
 LT. STA. 1255+05.00 TO LT. 1260+00.00
 RT. STA. 1255+05.00 TO RT. 1260+00.00

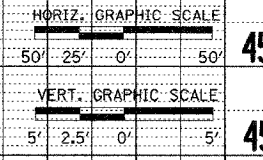
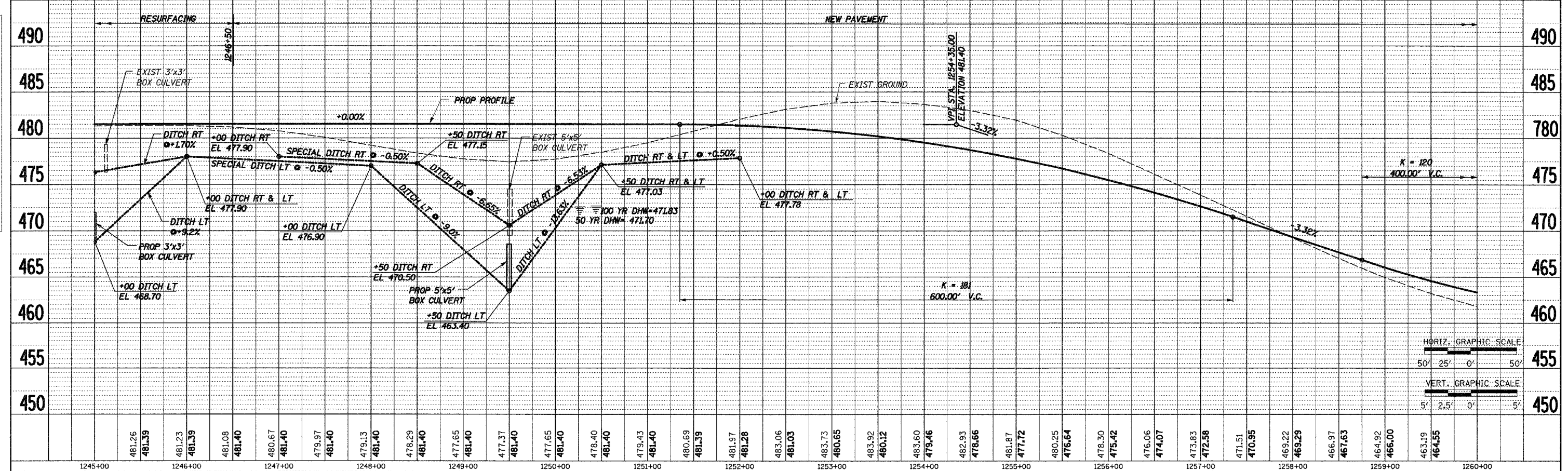
LEGEND:
 - PAVEMENT REMOVAL
 - PAVEMENT TO BE BROKEN



GUARDRAIL REMOVAL
 LT. STA. 1248+50.00 TO LT. 1250+50.00
 RT. STA. 1248+50.00 TO RT. 1250+50.00

FILLING EXISTING WELLS
 STA. 1255+47.86 44.34' LT = 1 EACH

BM HR #7 STA 1249+00.00, 15.00' RT.
 TOP OF GUARDRAIL POST
 EL 479.79



STA 1245+00 TO STA 1260+00

DATE	BY	REVISION

DATE	BY	REVISION

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F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
328	5R, Y, RS-1	CLAY	242	41
STA. 1260+00		TO STA. 1275+00		
FED. ROAD DIST. NO. 7 ILLINOIS FED. AID PROJECT				
CONTRACT NO. 74078				

DETOUR 1
 PI STA. = 18+27.94
 $\Delta = 12^\circ 24' 01''$ (RT)
 $D = 6^\circ 44' 26''$
 $R = 850.00'$
 $T = 92.34'$
 $L = 183.96'$
 $E = 5.00'$
 P.C. STA. = 17+35.60
 P.T. STA. = 19+19.56

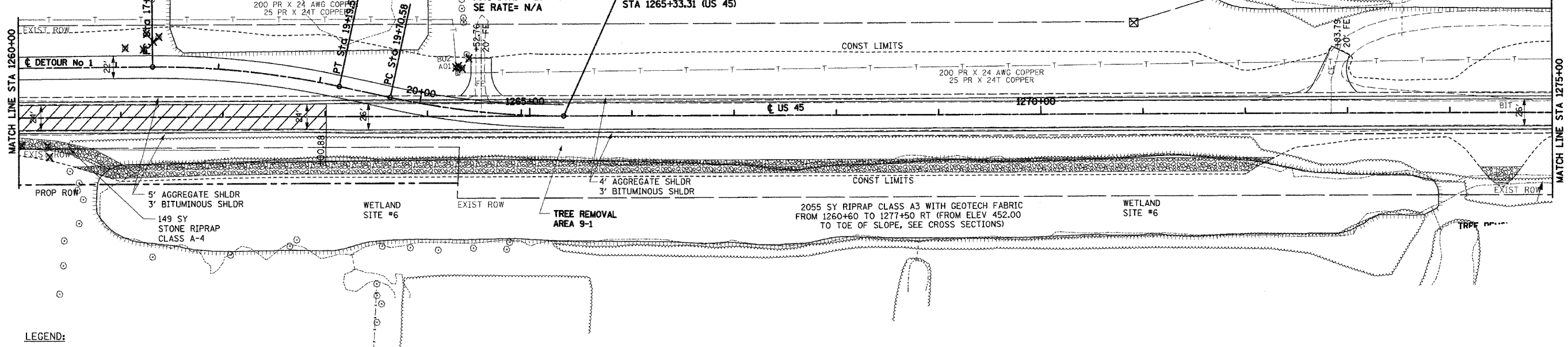
WETLAND SITE #7

DETOUR 1
 PI STA. = 20+56.41
 $\Delta = 12^\circ 24' 06''$ (LT)
 $D = 7^\circ 15' 09''$
 $R = 790.00'$
 $T = 85.83'$
 $L = 171.00'$
 $E = 4.65'$
 P.C. STA. = 19+70.58
 P.T. STA. = 21+41.57
 SE RATE = N/A

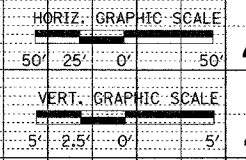
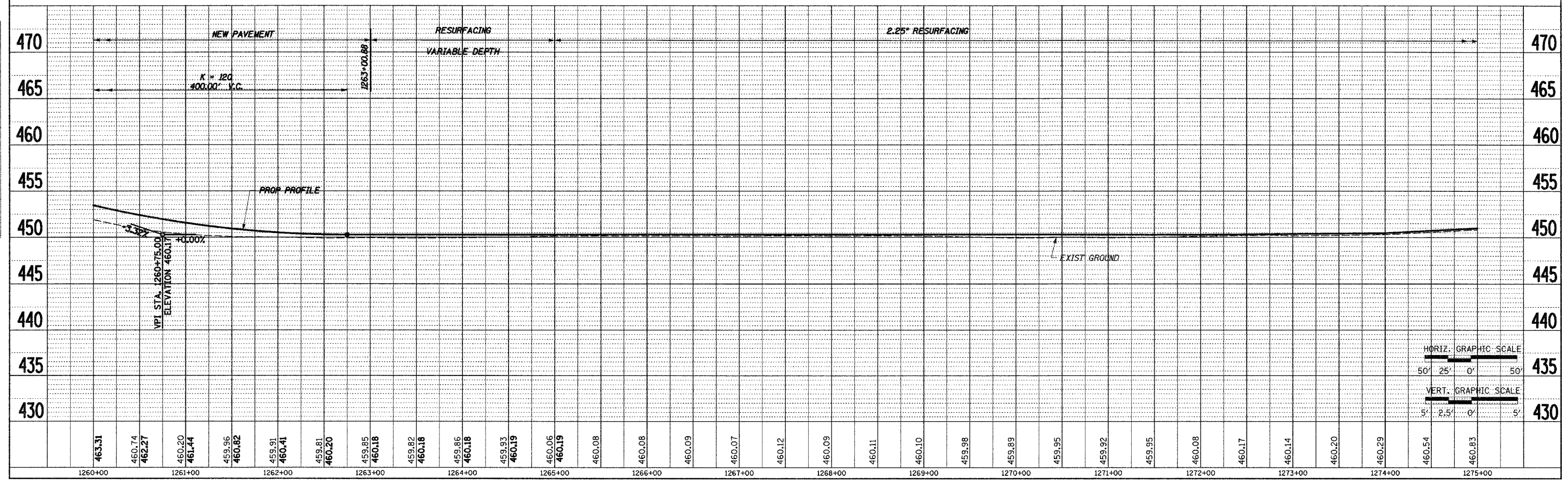
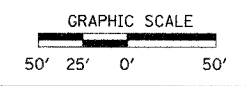
STA EQUATION:
 PT STA 21+41.57 (DETOUR No 1) =
 STA 1265+33.31 (US 45)



WETLAND SITE #5



LEGEND:
 - PAVEMENT REMOVAL



STA 1260+00 TO STA 1275+00

DATE	BY	REVISION

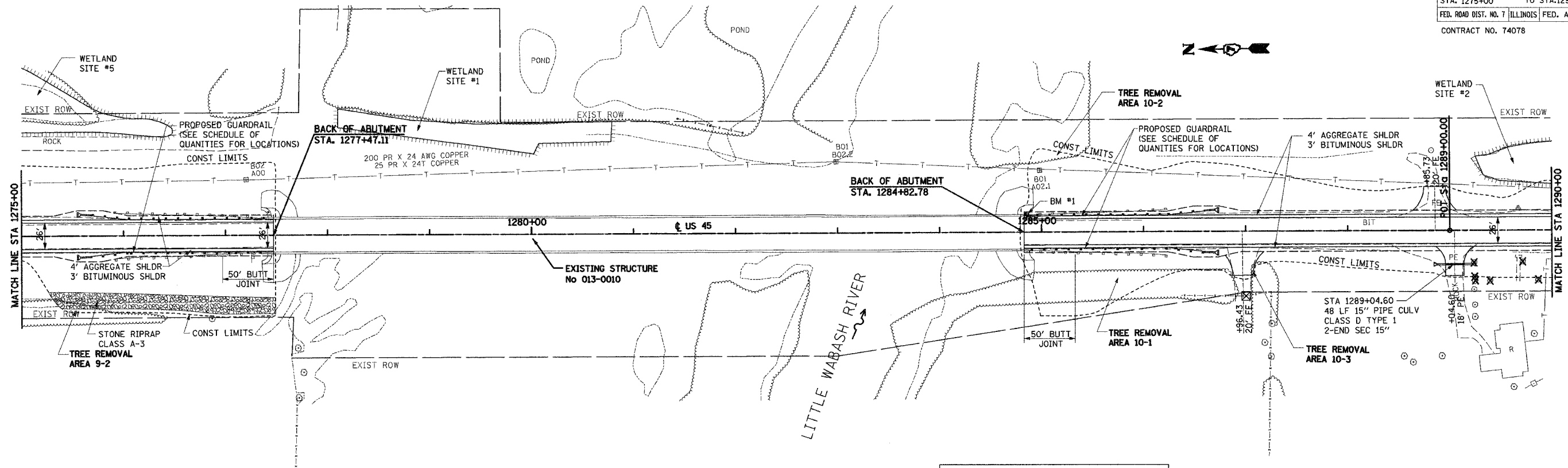
DATE	BY	REVISION

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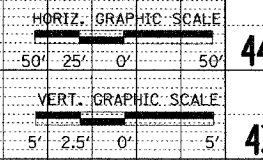
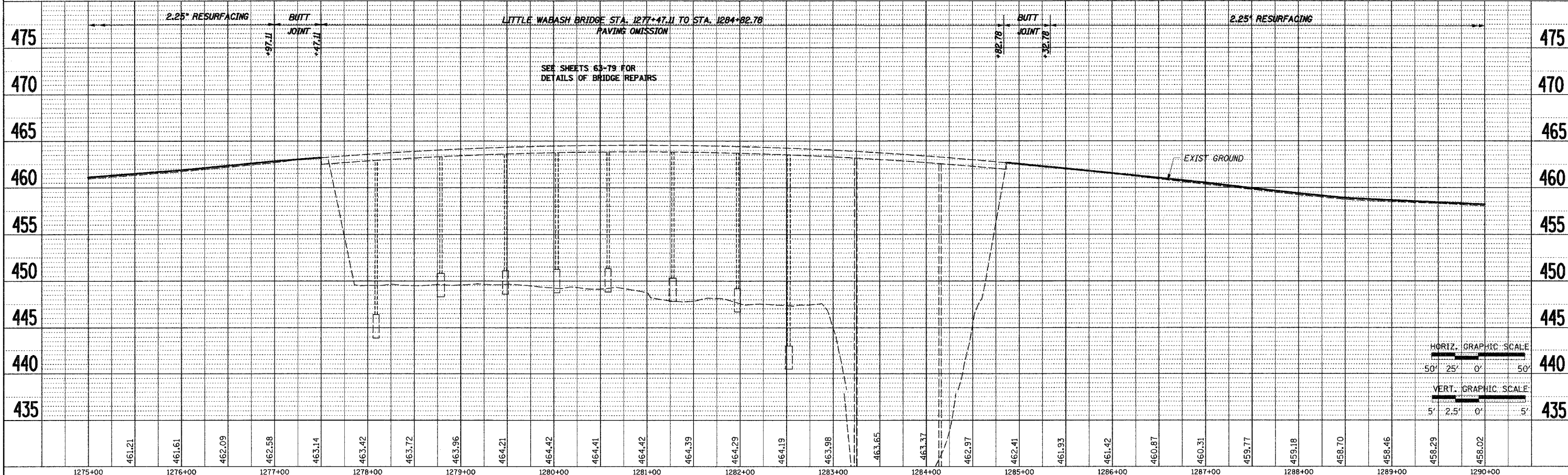
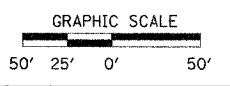
F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
328	5R, Y, RS-1	CLAY	242	42
STA. 1275+00		TO STA. 1290+00		
FED. ROAD DIST. NO. 7 ILLINOIS FED. AID PROJECT				
CONTRACT NO. 74078				

PLAN	DATE	BY	DATE
SURVEYED			
NOTE BOOK			
ALIGNED			
CHECKED			
NO.			
ROAD FILE NAME			

PROFILE	DATE	BY	DATE
SURVEYED			
NOTE BOOK			
GRADES CHECKED			
NO.			
STRUCTURE NOTATION SHEET			



BM #1 STA 1284+85.00, 16.90' LT.
 CHISELED "SQ" S.E. WINGWALL
 LITTLE WABASH RIVER BRIDGE EL 464.50

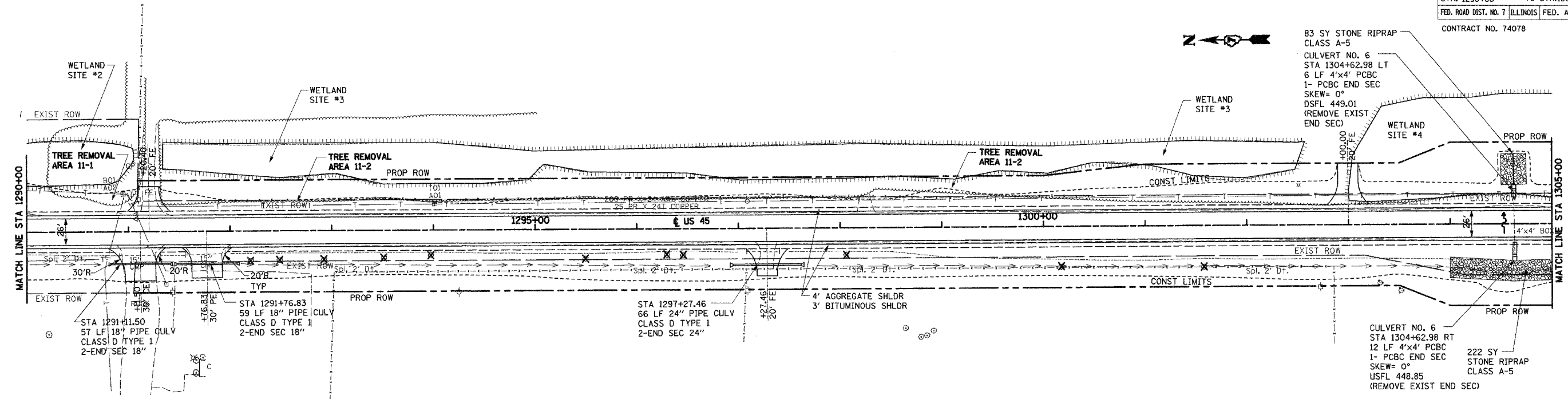


STA 1275+00 TO STA 1290+00

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
328	5R, Y, RS-1	CLAY	242	43
STA. 1290+00 TO STA. 1305+00				
FED. ROAD DIST. NO. 7 ILLINOIS FED. AID PROJECT				
CONTRACT NO. 74078				

PLAN
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 ALIGNED BY: [] DATE: []
 CHECKED BY: [] DATE: []
 NO. [] FILE NAME: []

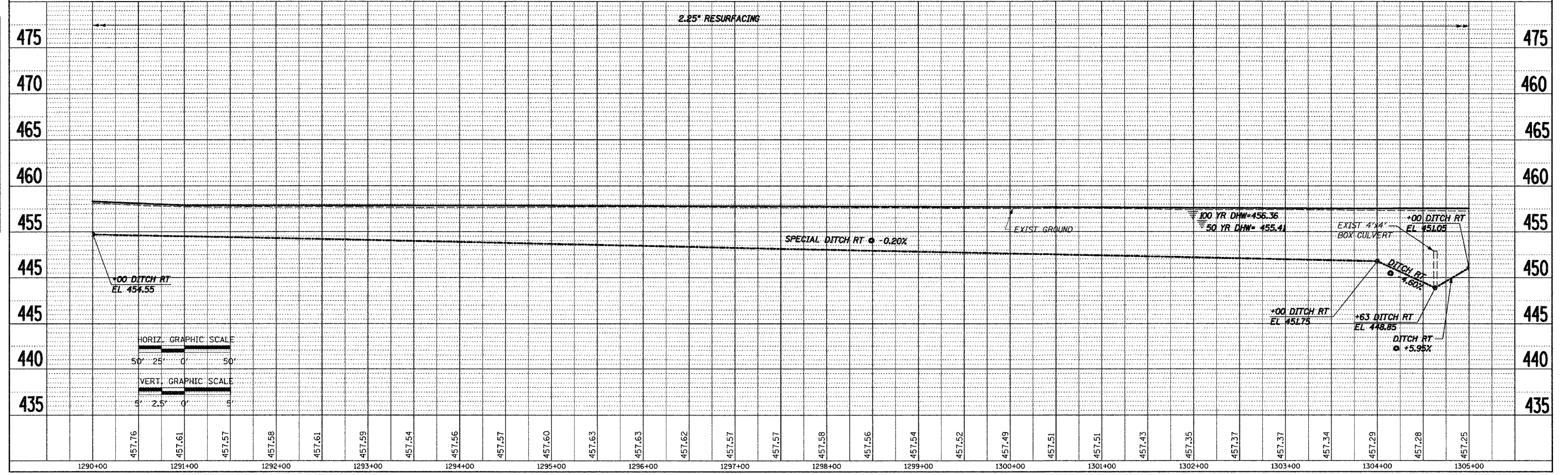
PROFILE
 SURVEYED BY: [] DATE: []
 GRADES CHECKED BY: [] DATE: []
 NO. [] NOTATIONS: []



CULVERT No. 6 STA 1304+62.98 DR AREA = 100 AC
 LOW GRADE ELEV = 457.50 @ STA 1305+00

FLOOD YR	FREQ (CF)	EXIST	PROP	EXIST	PROP	HEADWATER EL
DESIGN	50	167	15.65	---	455.28	455.41
BASE	100	194	15.65	---	456.19	456.36
OVERTOPPING	325	229	15.65	---	457.50	457.50
MAX CALC	500	256	15.65	---	457.53	457.53

GRAPHIC SCALE
 50' 25' 0' 50'



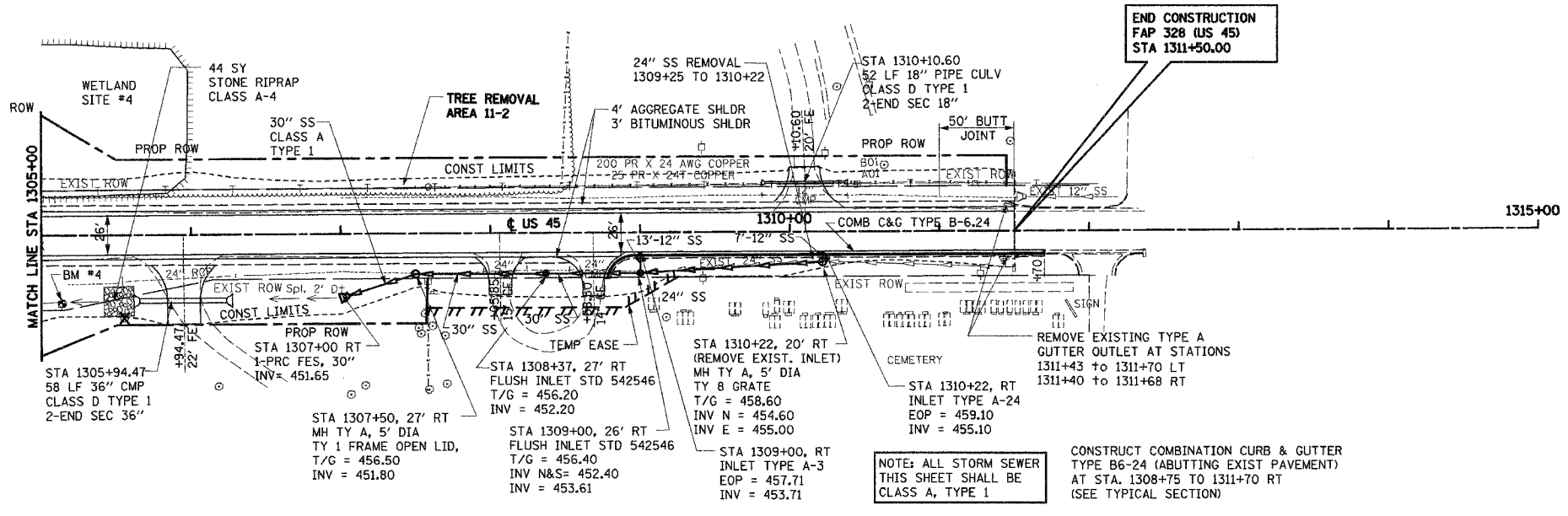
STA 1290+00 TO STA 1305+00

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F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
328	5R, Y, RS-1	CLAY	242	44
STA. 1305+00		TO STA. 1315+00		
FED. ROAD DIST. NO. 7 ILLINOIS FED. AID PROJECT				
CONTRACT NO. 74078				

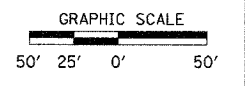


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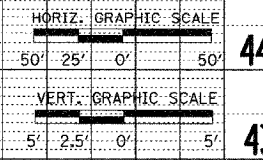
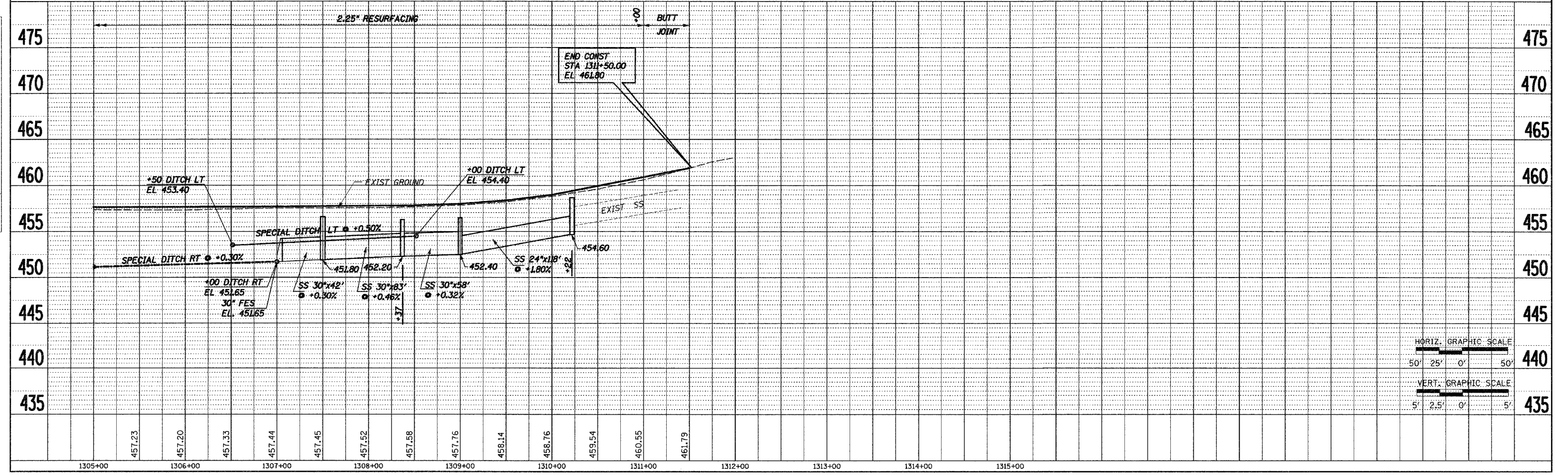


BM #4 STA 1305+14.00, 45.21' RT.
RR SPIKE IN POWER POLE N.E. COR
EL 486.83

NOTE: ALL STORM SEWER THIS SHEET SHALL BE CLASS A, TYPE 1
CONSTRUCT COMBINATION CURB & GUTTER TYPE B6-24 (ABUTTING EXIST PAVEMENT) AT STA. 1308+75 TO 1311+70 RT (SEE TYPICAL SECTION)



DATE	BY
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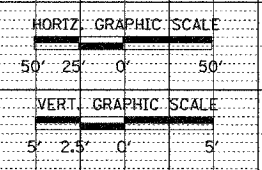
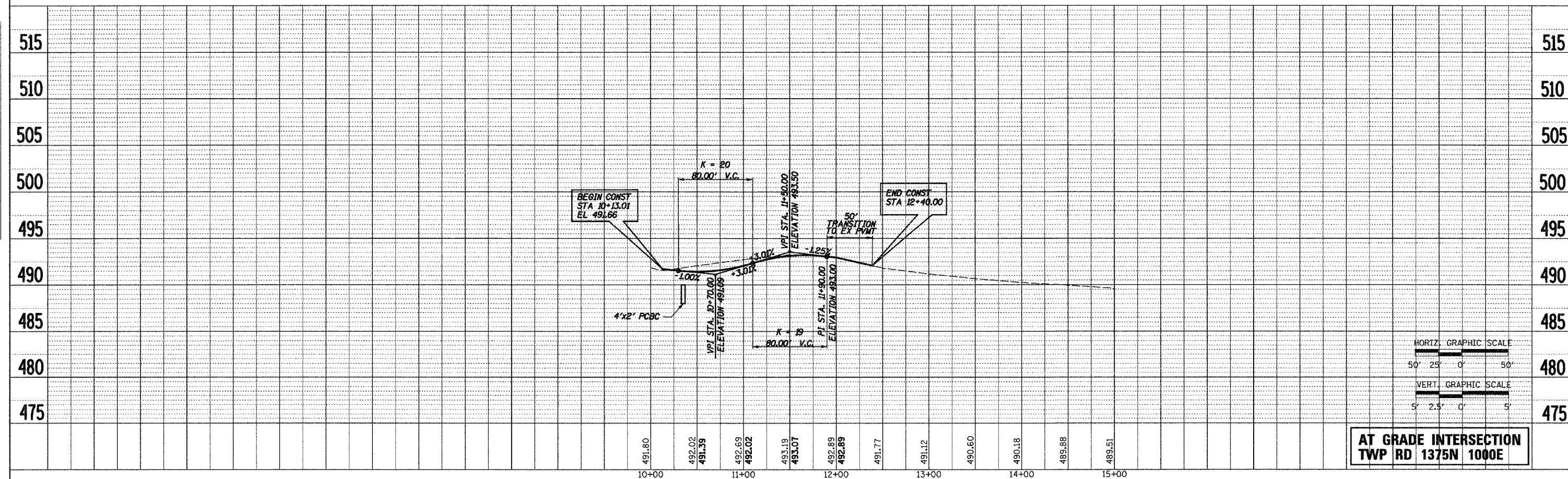
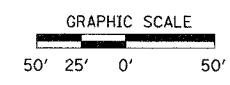
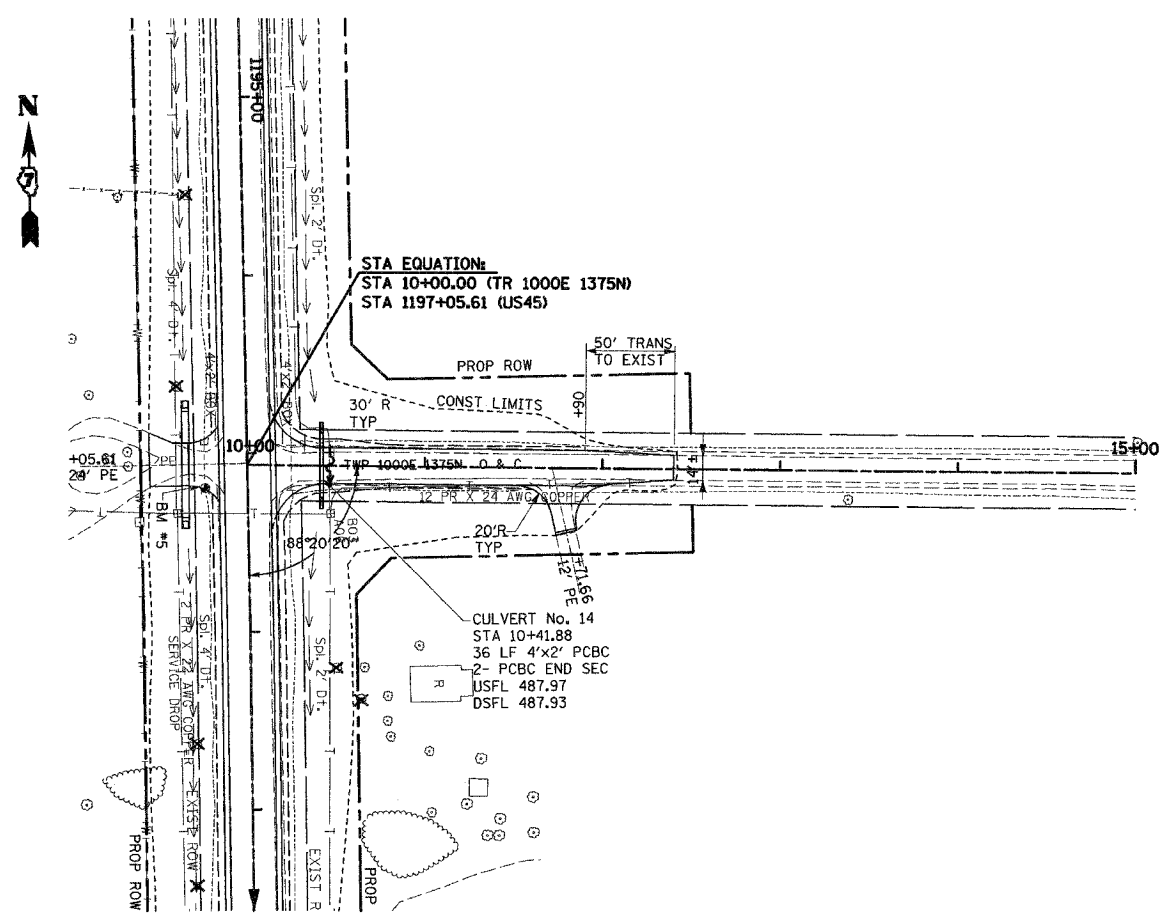
STA 1305+00 TO STA 1315+00

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F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
328	5R, Y, RS-1	CLAY	242	45
STA.		TO STA.		
FED. ROAD DIST. NO. 7		ILLINOIS	FED. AID PROJECT	
CONTRACT NO. 74078				

PLAN	DATE
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NOTES CHECKED	
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PROFILE	DATE
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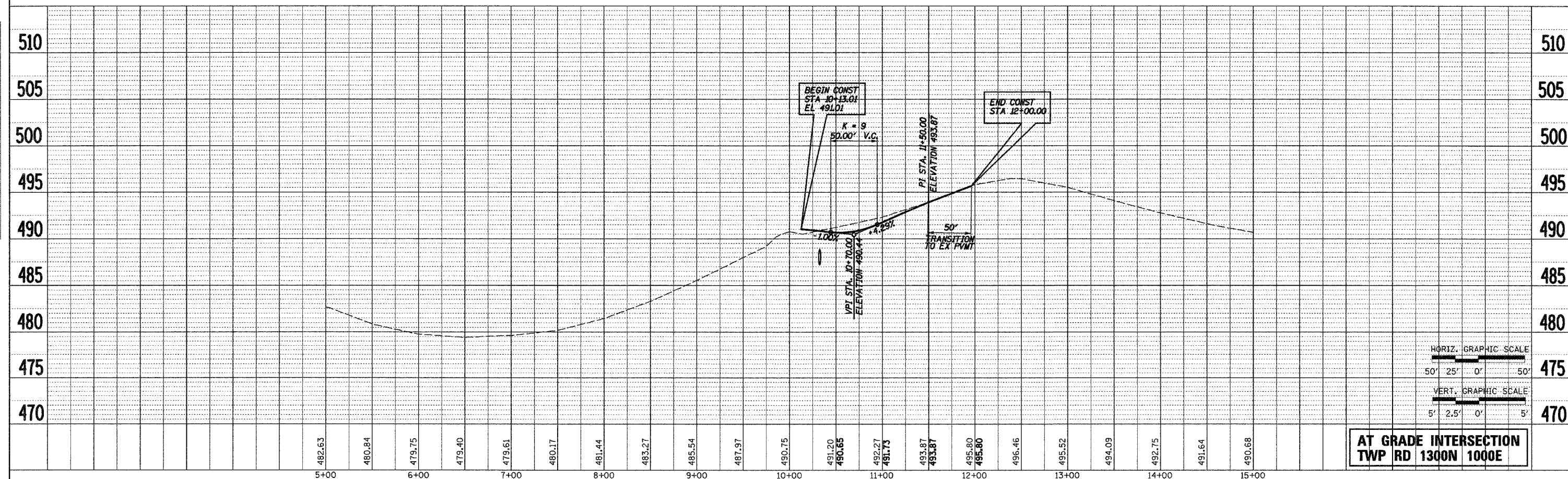
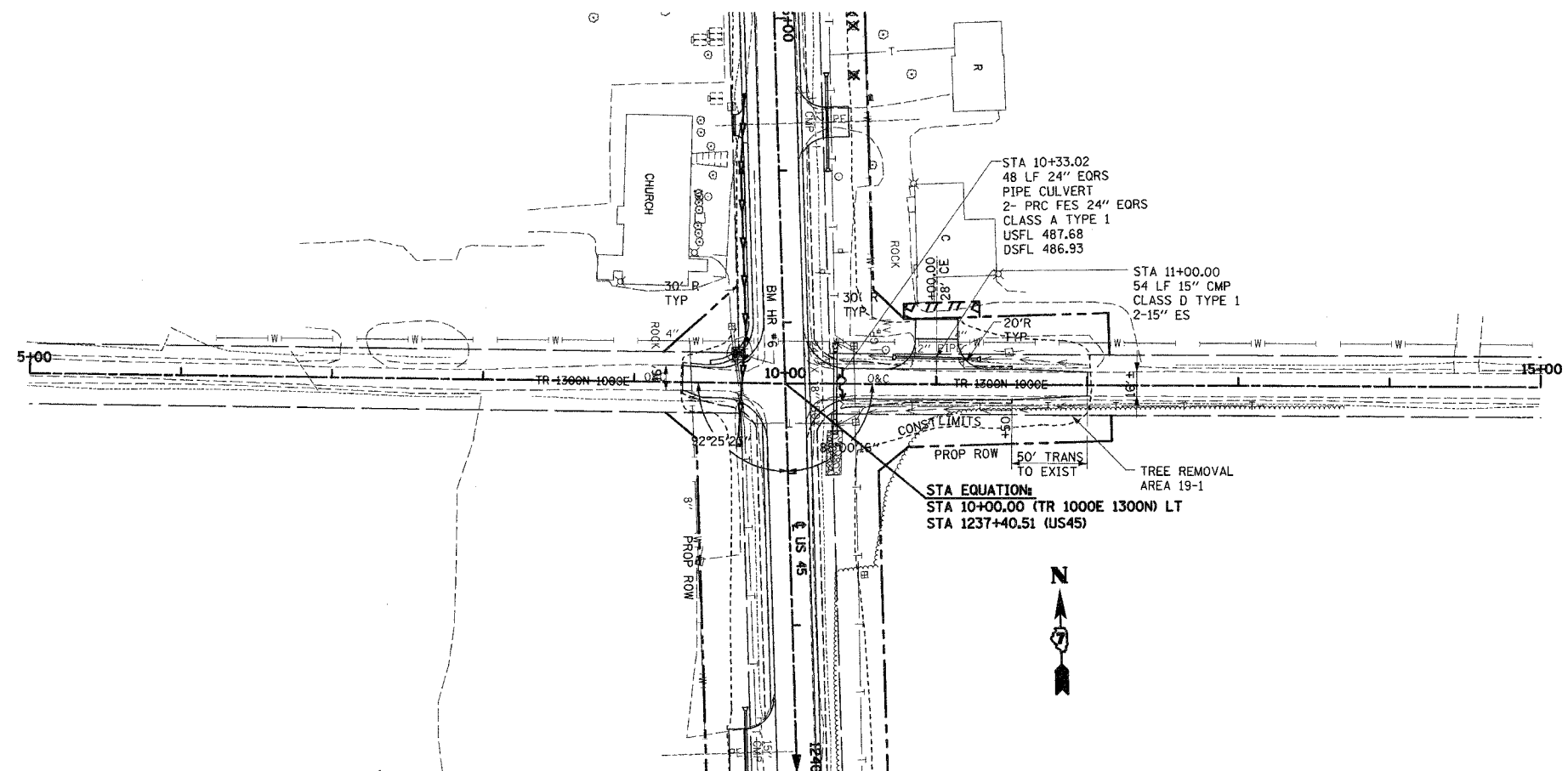


**AT GRADE INTERSECTION
TWP RD 1375N 1000E**

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
328	5R, Y, RS-1	CLAY	242	46
STA. TO STA.		FED. ROAD DIST. NO. 7 (ILLINOIS) FED. AID PROJECT		

PLAN	DATE
SURVEYED	BY
ALIGNMENT CHECKED	DATE
FIELD DATA CHECKED	
FILE NAME	

PROFILE	DATE
SURVEYED	BY
GRADES CHECKED	DATE
NOTED	
PLACEMENT NOTATIONS	

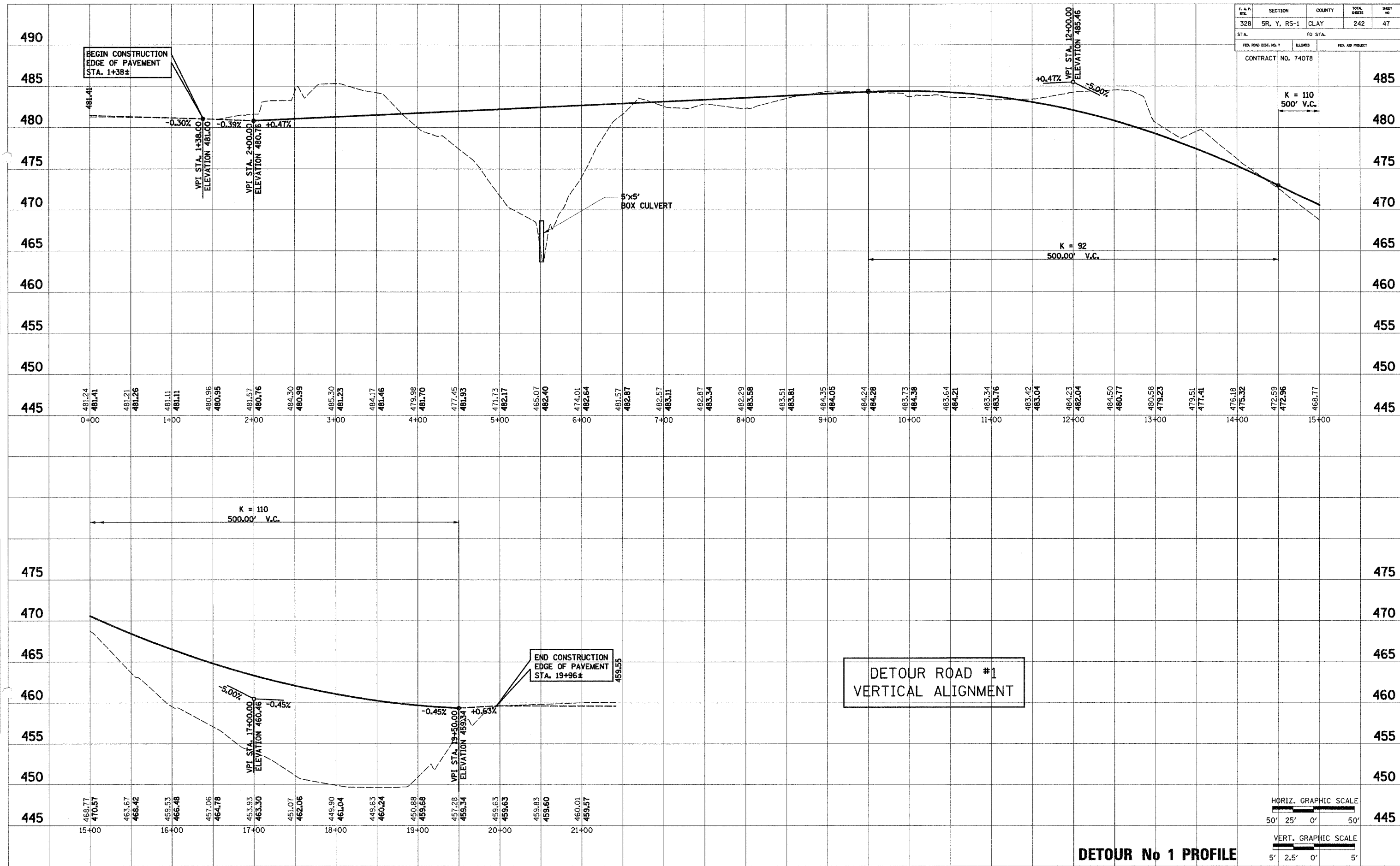


**AT GRADE INTERSECTION
TWP RD 1300N 1000E**

T.R. 1000E 1300N

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F. & P. RFL.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
328	5R, Y, RS-1	CLAY	242	47
STA.	TO STA.			
FED. ROAD DIST. NO. 7	ELLIPSIS	FED. AID PROJECT		
CONTRACT NO. 74078				



PLATTED
 NOTE BOOK
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PLATTED
 NOTE BOOK
 NO.

HORIZ. GRAPHIC SCALE
50' 25' 0' 50'

VERT. GRAPHIC SCALE
5' 2.5' 0' 5'

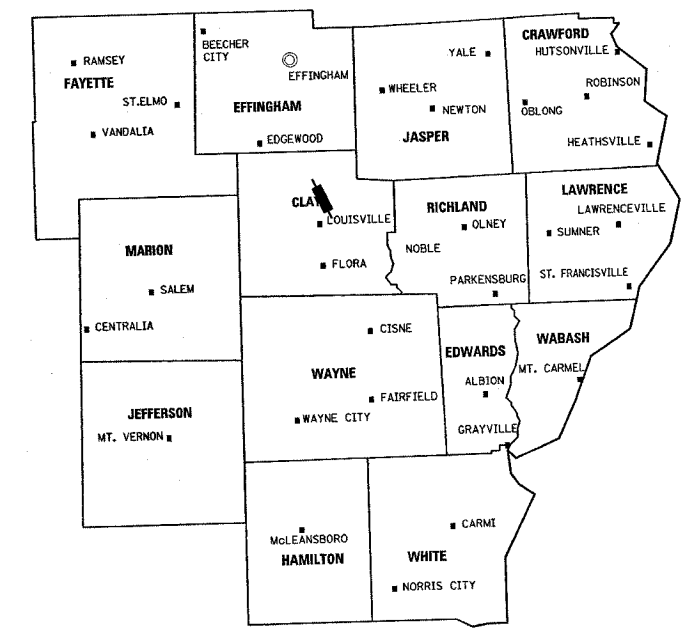
DETOUR No 1 PROFILE

FAP R/L	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
328	5R, Y, RS-1	CLAY	242	48
FED. ROAD DIST. NO. 7 ILLINOIS FED. AID PROJECT NO.				
CONTRACT NO. 74078				
SHEET 48 OF 242				

STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION DIVISION OF HIGHWAY RIGHT OF WAY PLANS FOR PROPOSED FEDERAL AID HIGHWAY

**FAP ROUTE 328 (US ROUTE 45)
SECTION 5R, Y, RS-1
CLAY COUNTY
R-97-003-05**

DISTRICT 7

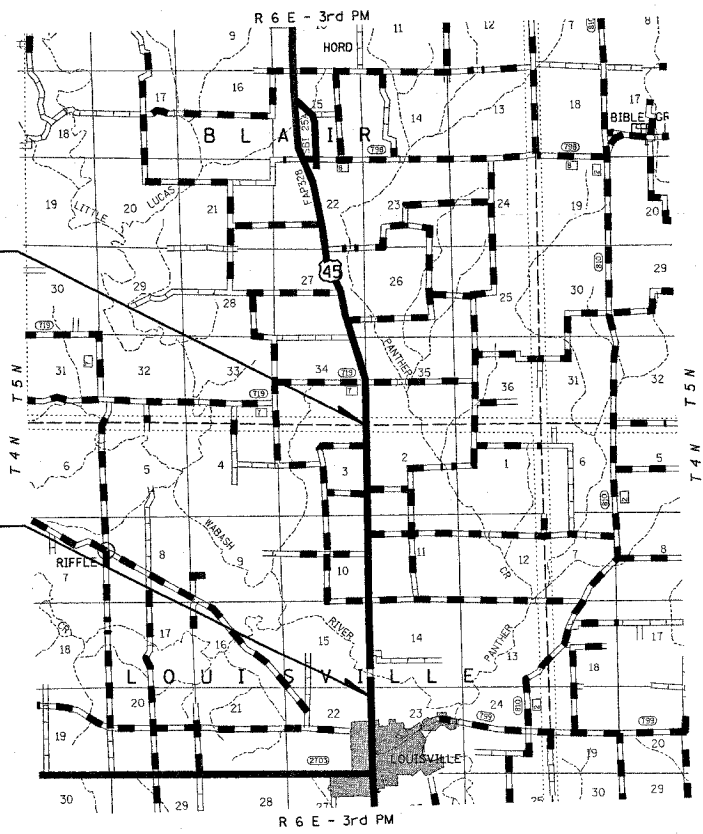


○ DISTRICT HEADQUARTERS
LOCATION OF SECTION INDICATED THUS:

NOTE: ADDITIONAL RIGHT-OF-WAY PURCHASED UNDER JOB NO. R 97-001-94, CONTRACT NO. 94367.

FAP ROUTE 328 (US ROUTE 45)
SECTION 5R, Y, RS-1
CLAY COUNTY
BEGINS
STA 1143+50.00

FAP ROUTE 328 (US ROUTE 45)
SECTION 5R, Y, RS-1
CLAY COUNTY
ENDS
STA 1311+50.00



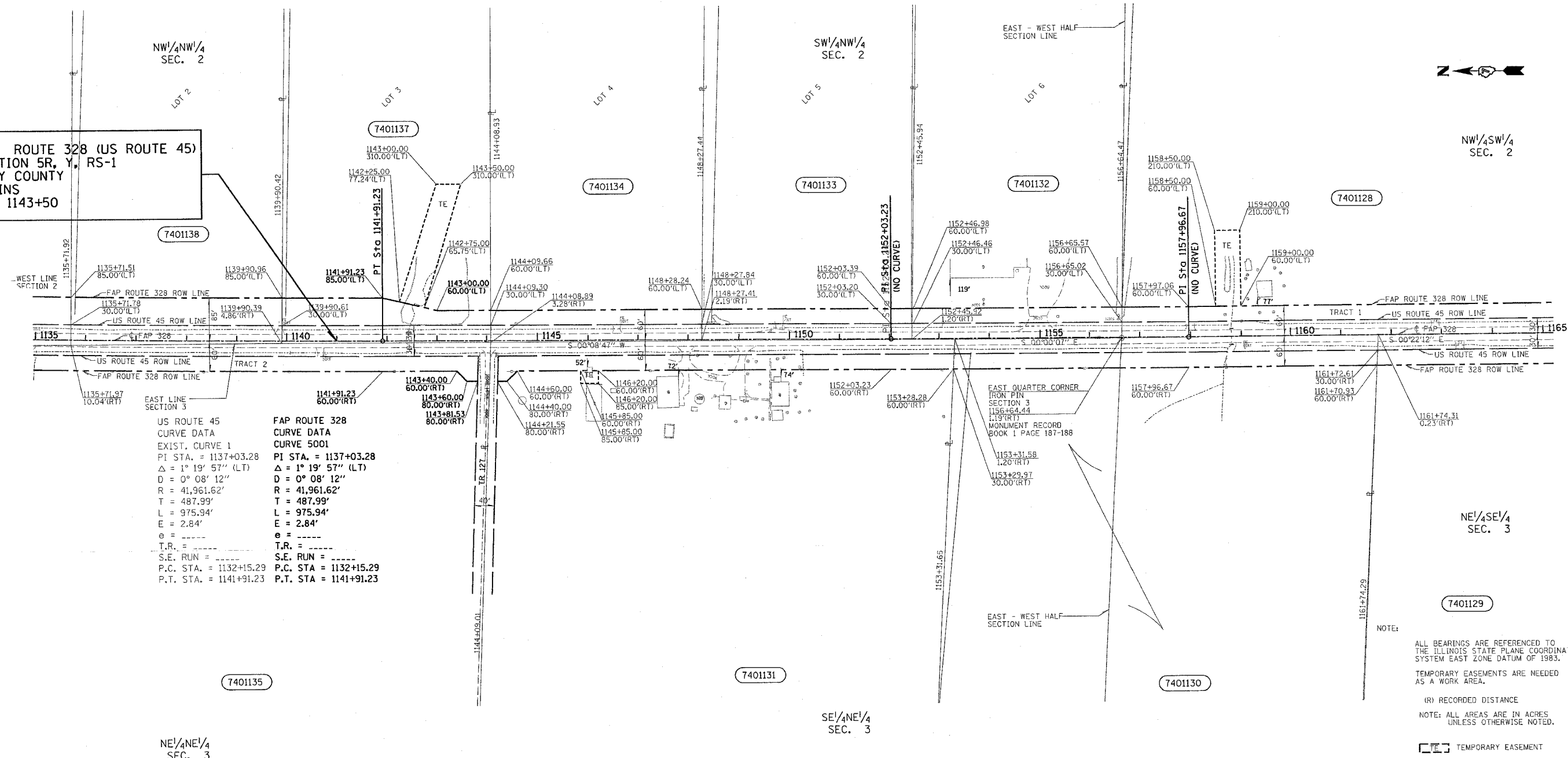
NET LENGTH OF PROJECT = 16,800 LIN. FT. = 3.18 MILES

STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION DIVISION OF HIGHWAYS	
SUBMITTED	20
EXAMINED	20
PASSED	20
REVIEWED	20
APPROVED	20

T4N - R6E, 3rd PM - LOUISVILLE TWP

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FAP ROUTE 328 (US ROUTE 45)
SECTION 5R, Y, RS-1
CLAY COUNTY
BEGINS
STA 1143+50



US ROUTE 45
CURVE DATA
EXIST. CURVE 1
PI STA. = 1137+03.28
Δ = 1° 19' 57" (LT)
D = 0° 08' 12"
R = 41,961.62'
T = 487.99'
L = 975.94'
E = 2.84'
e = -----
T.R. = -----
S.E. RUN = -----
P.C. STA. = 1132+15.29
P.T. STA. = 1141+91.23

FAP ROUTE 328
CURVE DATA
CURVE 5001
PI STA. = 1137+03.28
Δ = 1° 19' 57" (LT)
D = 0° 08' 12"
R = 41,961.62'
T = 487.99'
L = 975.94'
E = 2.84'
e = -----
T.R. = -----
S.E. RUN = -----
P.C. STA. = 1132+15.29
P.T. STA. = 1141+91.23

UTILITIES:
TELEPHONE- WABASH TELEPHONE COOPERATIVE, INC
GAS-
ELECTRICITY- AMEREN/CIPS
WATER- EJ WATER COPORATION
T.V.CABLE-

- ⊙ - IRON PIN
- ⊙ - IRON PIPE
- ⊙ - FENCE CORNER
- ⊙ - FENCE POST
- ⊗ - EXISTING ROW MARKER

NOTE:
ALL BEARINGS ARE REFERENCED TO THE ILLINOIS STATE PLANE COORDINATE SYSTEM EAST ZONE DATUM OF 1983.
TEMPORARY EASEMENTS ARE NEEDED AS A WORK AREA.

(R) RECORDED DISTANCE
NOTE: ALL AREAS ARE IN ACRES UNLESS OTHERWISE NOTED.

TEMPORARY EASEMENT

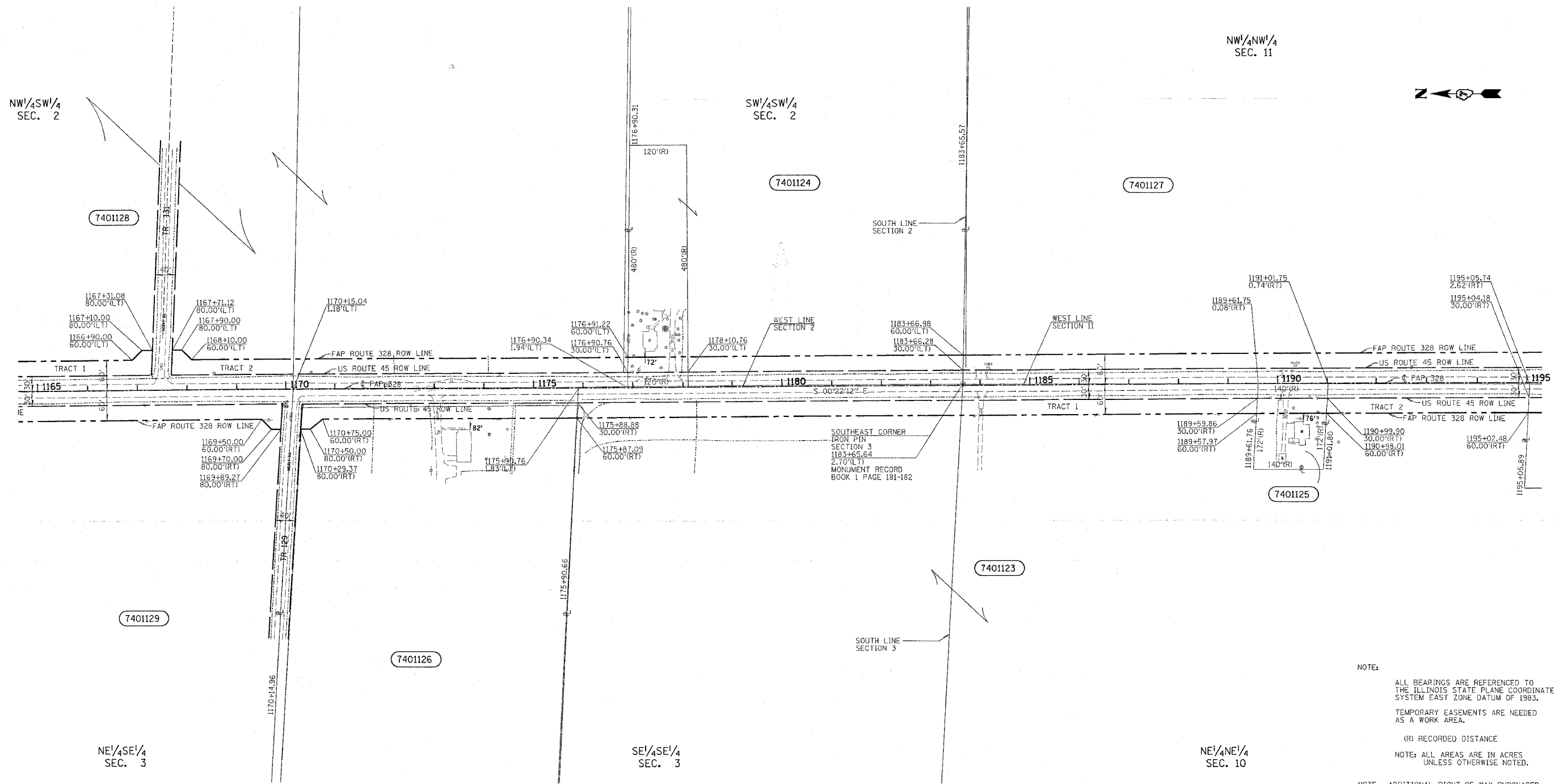
NOTE: ADDITIONAL RIGHT-OF-WAY PURCHASED UNDER JOB NO. R 97-001-94, CONTRACT NO. 94367.

PARCEL	OWNER	AREA TAKEN		EASEMENT	AREA REM	INST	RECORDED			EXCESS	
		ADD	EXIST				MICRO FILM NO	DATE	BOOK	PAGE	AREA
7401138	ANNA DAUGHERTY ET AL	0.53	0.36		24.92	WD	149,253	04/06/04			
7401137	TROY PORTER	0.43	0.33	0.28	25.05	WD	144,207	04/24/03			
7401136	GARY D. LOY	0.12	0.07		0.81	WD	145,586	08/12/03			
7401135	DEAN E. HABBE	0.74	0.58		54.61	WD	143,591	03/11/03			
	TRACT 1	0.11	0.05								
	TRACT 2	0.63	0.53								
7401134	GERALD MEFFORD	0.29	0.31		24.69	WD	144,591	05/28/03			
7401133	GARY D. BIBLE	0.29	0.30		24.70	WD	143,978	04/09/03			
7401132	TYSON HOG MARKETS INC.	0.29	0.30		25.23	WD	150,892	09/08/04			
7401131	GERALD MEFFORD	0.64	0.61	0.02	64.01	WD/TCE	149,712/149,713	05/24/04			
7401130	HERSCHEL W. PORTER	0.58	0.57		23.85	WD	146,599	10/03/03			
7401129	ROBERT D. MCKNELLY	0.58	0.62		137.54	WD	146,109	09/17/03			
7401128	BELLE PEAVLER GREENWOOD	1.40	1.41	0.17	58.91	WD/TCE	147,291/147,292	01/05/04			
	TRACT 1	0.75									
	TRACT 2	0.65									

RIGHT OF WAY PLANS
FAP ROUTE 328
PROJECT SECTION 5R, Y, RS-1
STATION 1135+00 TO 1165+00
COUNTY CLAY
SCALE 1:100 SHEET 2 of 7

T4N - R6E, 3rd PM - LOUISVILLE TWP

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NOTE:
ALL BEARINGS ARE REFERENCED TO THE ILLINOIS STATE PLANE COORDINATE SYSTEM EAST ZONE DATUM OF 1983.
TEMPORARY EASEMENTS ARE NEEDED AS A WORK AREA.
(R) RECORDED DISTANCE
NOTE: ALL AREAS ARE IN ACRES UNLESS OTHERWISE NOTED.
NOTE: ADDITIONAL RIGHT-OF-WAY PURCHASED UNDER JOB NO. R 97-001-94, CONTRACT NO. 94367.

UTILITIES:
TELEPHONE- WABASH TELEPHONE COOPERATIVE, INC
GAS-
ELECTRICITY- AMEREN/CIPS
WATER- EJ WATER COPORATION
T.V. CABLE-

PARCEL	OWNER	AREA TAKEN		EASEMENT	AREA REM	INST	RECORDED			EXCESS			
		ADD	EXIST				MICRO	FILM NO	DATE	BOOK	PAGE	AREA	SOLD
7401129	ROBERT D. MCKNELLY	0.58	0.62		137.54	WD	146.109		09/17/03				
7401128	BELLE PEAVLER GREENWOOD	1.40	1.41	0.17	58.91	WD/TCE	147291/147,292		01/05/04				
	TRACT 1	0.75											
	TRACT 2	0.65											
7401127	HERSCHEL W. PORTER	1.05	1.08		49.48	WD	147,285		01/02/04				
7401126	RICHARD K. JONES	0.40	0.44		10.66	WD	144,362		05/06/03				
7401125	JOHN L. WALKER	0.10	0.10		0.35	WD	146,106		09/17/03				
7401124	DAVID W. PORTER	0.47	0.43		19.84	WD/QCD	147294/149,923		01/05/04 & 06/09/04				
7401123	GEORGE ROBERT MCDANIEL	1.22	1.26		60.44	TD	147,943		03/10/04				
	TRACT 1	0.94	1.00										
	TRACT 2	0.28	0.26										

RIGHT OF WAY PLANS
FAP ROUTE 328
PROJECT SECTION 5R, Y, RS-1
STATION 1165+00 TO 1195+00
COUNTY CLAY
SCALE 1:100 SHEET 3 of 7

DRAWN BY KMS & LOM
WRITTEN BY KMS
CHECKED BY JDL
INSPECTED BY DES

● - IRON PIN
⊙ - FENCE CORNER
⊙ - FENCE POST
CONTRACT NO. 74078
FIELD BOOK NO. 5073

T4N - R6E, 3rd PM - LOUISVILLE TWP

SHEET 52 of 242
CONTRACT No. 74078

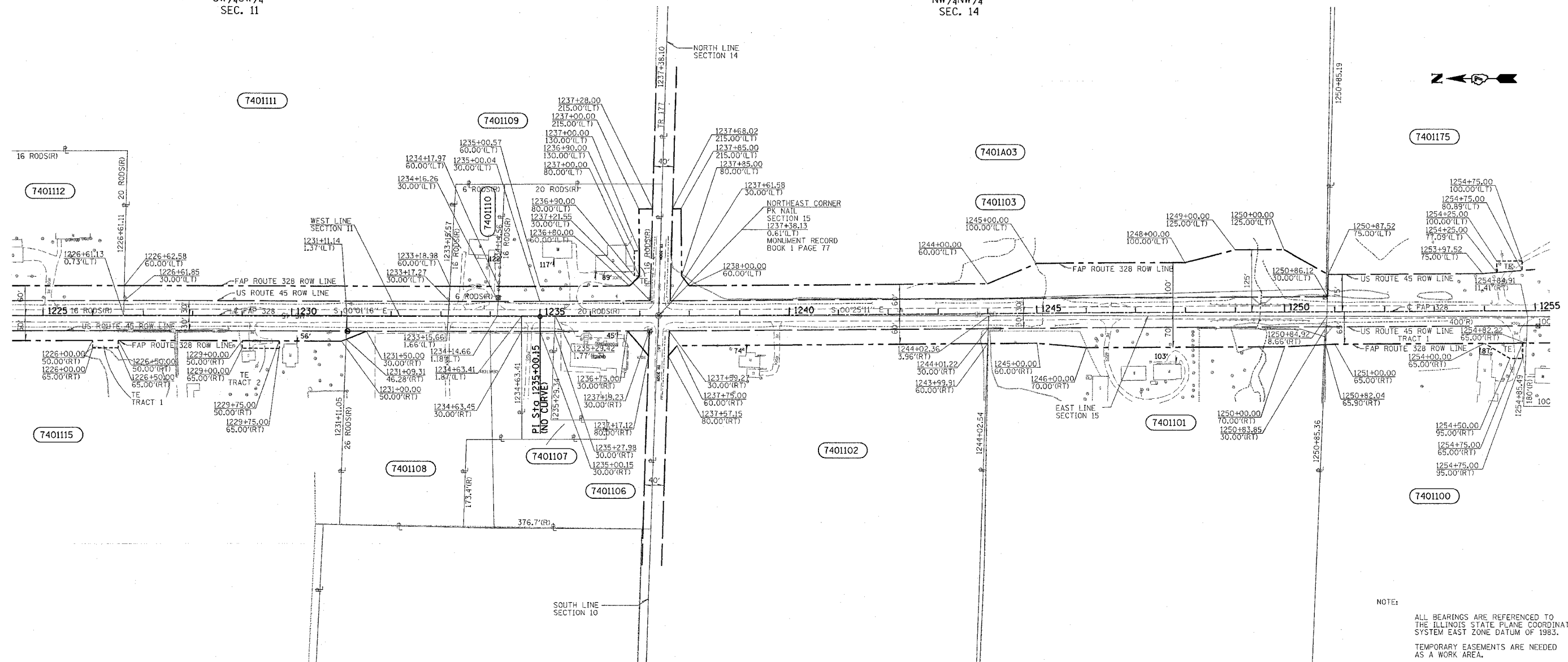
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NW 1/4 NW 1/4
SEC. 14

SE 1/4 SE 1/4
SEC. 10

NE 1/4 NE 1/4
SEC. 15



NOTE:
ALL BEARINGS ARE REFERENCED TO THE ILLINOIS STATE PLANE COORDINATE SYSTEM EAST ZONE DATUM OF 1983.
TEMPORARY EASEMENTS ARE NEEDED AS A WORK AREA.
(R) RECORDED DISTANCE

NOTE: ALL AREAS ARE IN ACRES UNLESS OTHERWISE NOTED.

TEMPORARY EASEMENT

NOTE: ADDITIONAL RIGHT-OF-WAY PURCHASED UNDER JOB NO. R 97-001-94, CONTRACT NO. 94367.

PARCEL	OWNER	AREA TAKEN		EASEMENT	AREA REM	INST	RECORDED			EXCESS		
		ADD	EXIST				MICRO FILM NO	DATE	BOOK	PAGE	AREA	SOLD
7401175	MICHAEL A. FROST			0.02		TCE	144,750	06/09/03				
7401115	JANICE L. KEATING	0.33	0.51	0.05	20.07	WD/TCE	149,629/149,630	04/18/04				
	TRACT 1			0.02								
	TRACT 2			0.03								
7401112	GENE DILLON	0.18	0.18		1.64	WD	144,147	04/21/03				
7401111	KENNETH DAUGHERTY	0.45	0.43		72.65	WD	147,048	12/08/03				
7401110	TRUSTEES OF THE RED BRUSH CH	0.07	0.06		0.47	WD	147,246	12/29/03				
7401109	VICTOR BARBEE	0.30	0.29	0.01	1.41	WD/TCE	147,311/147,312	01/06/04				
7401108	RED BRUSH CEMETERY ASSOCIATI	0.01	0.26		2.75	WD	150,769	08/25/04				
7401106	TRUSTEES OF THE RED BRUSH CHR	0.03	0.17		2.42	WD	147,245	12/29/03				
7401104	RYAN CLOVIS BALLARD	0.08	0.04		0.29	WD	146,108	09/17/03				
7401103	CAROLE PINE	1.66	1.15		37.19	WD	149,259	04/06/04				
7401A03	LINDA KUEHLER	1.66	1.15		37.19	WD	D 154614	08/08/05				
7401102	RED BRUSH CHRISTIAN CHURCH	0.45	0.46		19.25	WD	146,623	10/28/03				
7401101	BETTY COCHRAN	0.59	0.37		19.64	WD	144,585	03/27/03				
7401100	BENNY L. BALLARD REV. TRUST	1.00	0.56	0.03	77.52	TD/TCE	149,349/149,350	04/16/04				
	TRACT 1	0.32	0.18									
	TRACT 2	0.68	0.38									

UTILITIES:
TELEPHONE- WABASH TELEPHONE COOPERATIVE, INC
GAS-
ELECTRICITY- AMEREN/CIPS
WATER- EJ WATER COPORATION
T.V.CABLE-

⊙ - PK NAIL
⊙ - FENCE POST
⊙ - EXISTING ROW MARKER
CONTRACT NO. 74078
FIELD BOOK NO. 5073

DRAWN BY KMS & CW
WRITTEN BY KMS
CHECKED BY JPL
INSPECTED BY DZS

JOB NO. R-97-003-05

RIGHT OF WAY PLANS
FAP ROUTE 328
PROJECT SECTION 5R, Y, RS-1
STATION 1225+00 TO
STATION 1255+00
COUNTY CLAY
SCALE 1:100 SHEET 5 OF 7

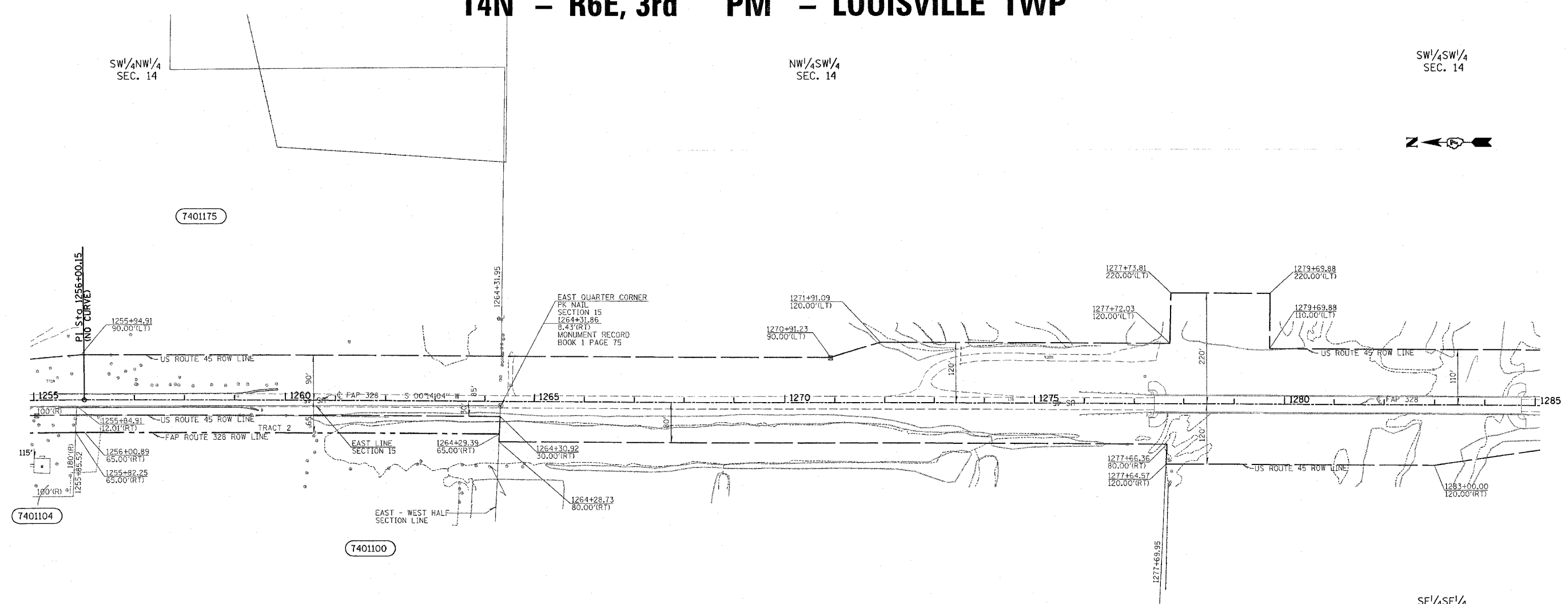
T4N - R6E, 3rd PM - LOUISVILLE TWP

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SE/4SE/4
SEC. 15

NE/4SE/4
SEC. 15

NOTE: ADDITIONAL RIGHT-OF-WAY PURCHASED UNDER JOB NO. R 97-001-94, CONTRACT NO. 94367.

TEMPORARY EASEMENT
(R) RECORDED DISTANCE

NOTE: ALL AREAS ARE IN ACRES UNLESS OTHERWISE NOTED.

NOTE: ALL BEARINGS ARE REFERENCED TO THE ILLINOIS STATE PLANE COORDINATE SYSTEM EAST ZONE DATUM OF 1983.
TEMPORARY EASEMENTS ARE NEEDED AS A WORK AREA.

UTILITIES:
TELEPHONE- WABASH TELEPHONE COOPERATIVE, INC
GAS-
ELECTRICITY- AMEREN/CIPS
WATER- EJ WATER COPORATION
T.V.CABLE-

⊙ - PK NAIL
⊙ - FENCE CORNER
⊙ - FENCE POST
⊙ - EXISTING ROW MARKER
CONTRACT NO. 74078
FIELD BOOK NO. 5073

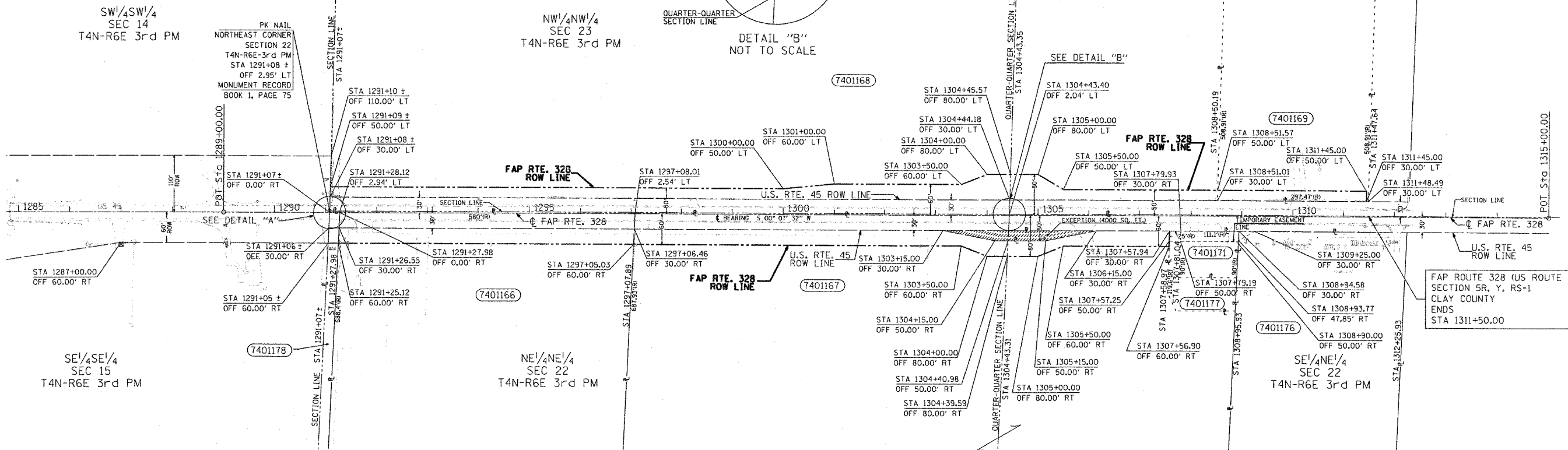
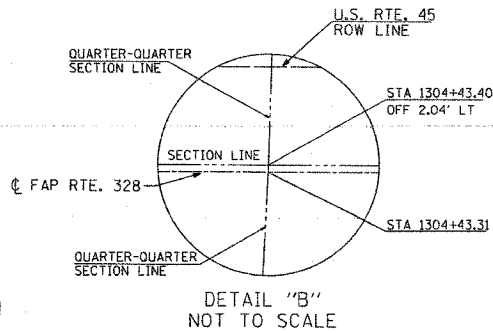
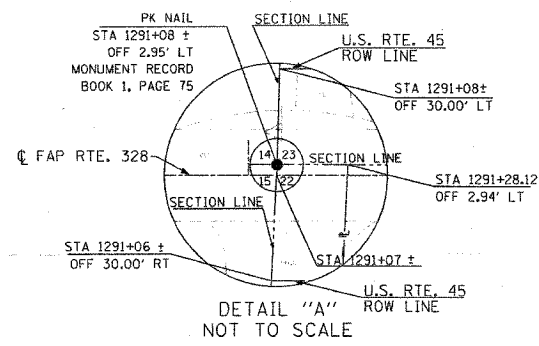
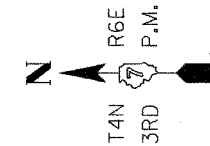
PARCEL	OWNER	AREA TAKEN		EASEMENT	AREA REM	INST	RECORDED			EXCESS		
		ADD	EXIST				MICRO FILM NO	DATE	BOOK	PAGE	AREA	SOLD
7401175	MICHAEL A. FROST			0.02		TCE	144, 750	06/09/03				
7401104	RYAN CLOVIS BALLARD	0.08	0.04		0.29	WD	146, 108	09/17/03				
7401100	BENNY L. BALLARD REV. TRUST	1.00	0.56	0.03	77.52	TD/TCE	149, 349/149, 350	04/16/04				
	TRACT 1	0.32	0.18									
	TRACT 2	0.68	0.38									

RIGHT OF WAY PLANS
FAP ROUTE 328
PROJECT SECTIONS 5R, Y, RS-1
STATION 1255+00 TO
STATION 1285+00
COUNTY CLAY
SCALE 1:100 SHEET 6 OF 7

JOB NO. R-97-003-05

DRAWN BY KMS & LW
WRITTEN BY KMS
CHECKED BY JPL
INSPECTED BY DES

T4N-R6E 3rd PM LOUISVILLE TWP



BY	DATE

NOTE: ADDITIONAL RIGHT-OF-WAY PURCHASED UNDER JOB NO. R 97-001-94, CONTRACT NO. 94367.

EXCEPTION
(R) - RECORDED DISTANCE

ALL BEARINGS ARE REFERENCED TO THE ILLINOIS STATE PLANE COORDINATE SYSTEM EAST ZONE DATUM OF 1983.

UTILITIES:
TELEPHONE - WABASH TELEPHONE CORPORATION
GAS -
ELECTRICITY - AMEREN/CIPS
WATER & SEWER - EJ WATER CORPORATION
T.V.CABLE -

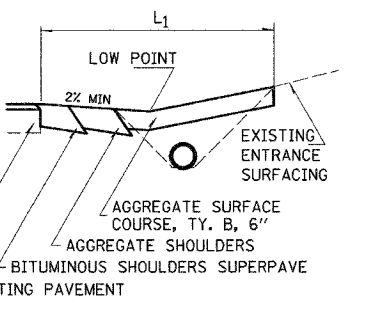
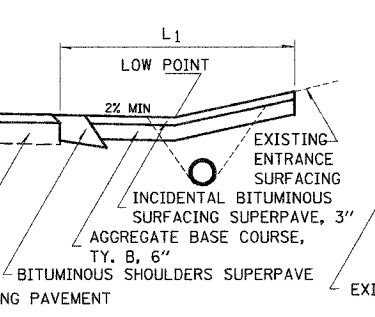
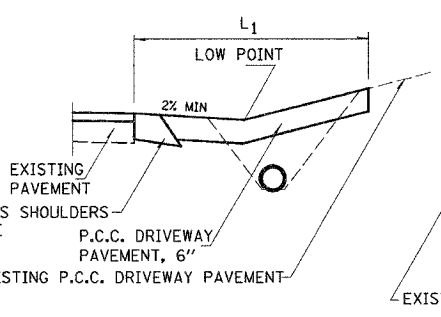
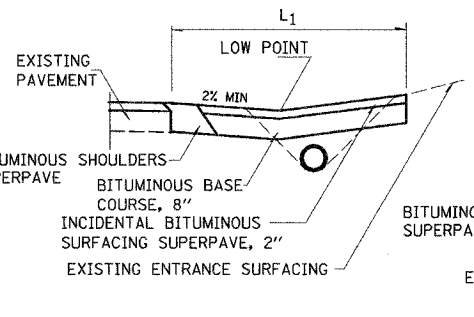
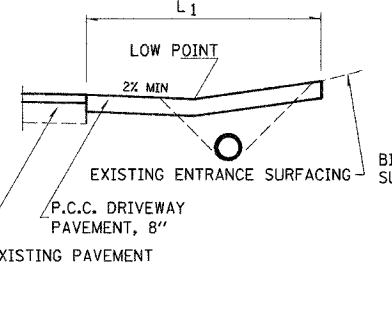
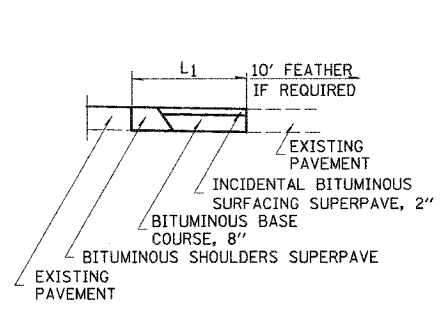
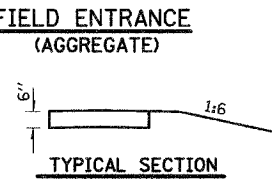
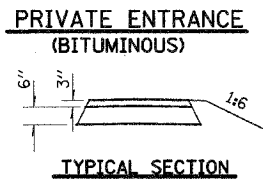
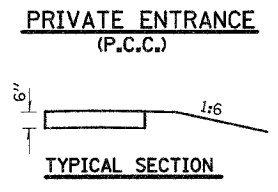
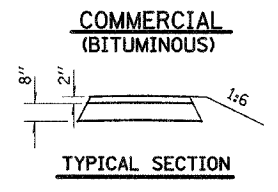
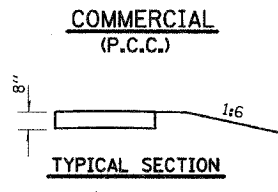
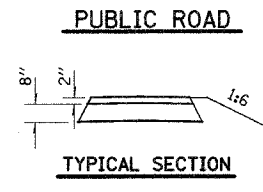
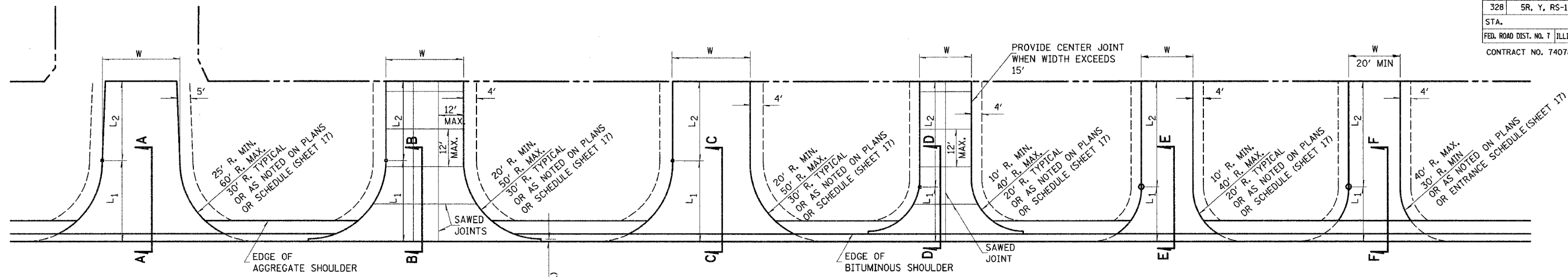
PARCEL	OWNER	ADD. AREA	EXIST. AREA TAKEN	EASEMENT	REM. AREA	INST.	MICRO FILM NO. RECORDED	DATE	CAB	DRW	AREA EXCESS	SOLD
7401166	CARY L. CONNERLY	17,400	18,990		362,430	WD	150,894	09/08/04				
7401167	ROY E. SMITH	30,550	33,840		702,155	WD	145,421	08/04/03				
7401168	JOHN W. ZINK	42,600	48,160		2,303,310	WD	144,329	05/02/03				
7401169	IL. GREAT RIVERS ANNUAL CONF. OF THE UNITED METHODIST CHURCH	5,875			145,840	WD	147,091	12/12/03				
7401171	CHRISTIAN CONSERVATIVE CHURCH		2,290		20,765	TCE	147,945	03/10/04				
7401176	TRUSTEES OF ORCHARD HILL CEMETERY		275		441,780	TCE	147,163	12/18/03				
7401177	CHRISTIAN CONSERVATIVE CHURCH		440		10,420	TCE	147,944	03/10/04				
7401178	ROY E. SMITH	605	665		12,495	WD	145,420	08/04/03				

NOTE: ALL AREA CALCULATIONS ARE IN SQUARE FEET UNLESS OTHERWISE NOTED

RIGHT OF WAY PLANS
FAP ROUTE 328
PROJECT SECTION 5R, Y, RS-1
STATION 1285+00.00 TO
STATION 1311+50.00
COUNTY CLAY
SCALE 1" = 100' SHEET 7 OF 7

CONTRACT NO. 74078
JOB NO. R-97-003-05

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
328	SR, Y, RS-1	CLAY	242	55
STA.		TO STA.		
FED. ROAD DIST. NO. 7		ILLINOIS	FED. AID PROJECT	
CONTRACT NO. 74078				



NOTES

L₁ = DISTANCE FROM EDGE OF PAVEMENT TO RADIUS POINT OR MAXIMUM DISTANCE OF 30'.

L₂ = DISTANCE FROM RADIUS POINT OR MAXIMUM DISTANCE OF 30' FROM EDGE OF PAVEMENT TO R.O.W. LINE

MATERIAL USED TO CONSTRUCT L₂ LENGTH SHALL BE THE SAME TYPE OF MATERIAL AS THE EXISTING ENTRANCE

THE THICKNESS OF THE BITUMINOUS SHOULDERS THROUGH COMMERCIAL ENTRANCES (BITUMINOUS) AND PUBLIC ROADS SHALL BE 10". THE COST OF THE EXTRA THICKNESS SHALL BE INCLUDED WITH THE BITUMINOUS SHOULDERS PAY ITEM.

THE COST OF THE BITUMINOUS MATERIALS AND AGGREGATE (PRIME COAT) FOR ENTRANCES AND PUBLIC ROAD APPROACHES SHALL BE INCLUDED IN THE PAY ITEM INCIDENTAL BITUMINOUS SURFACING.

SEE ENTRANCE SCHEDULES (SHEET 17) FOR THE APPLICABLE ENTRANCE QUANTITIES.

REVISIONS	
NAME	DATE

ILLINOIS DEPARTMENT OF TRANSPORTATION

ENTRANCE DETAILS

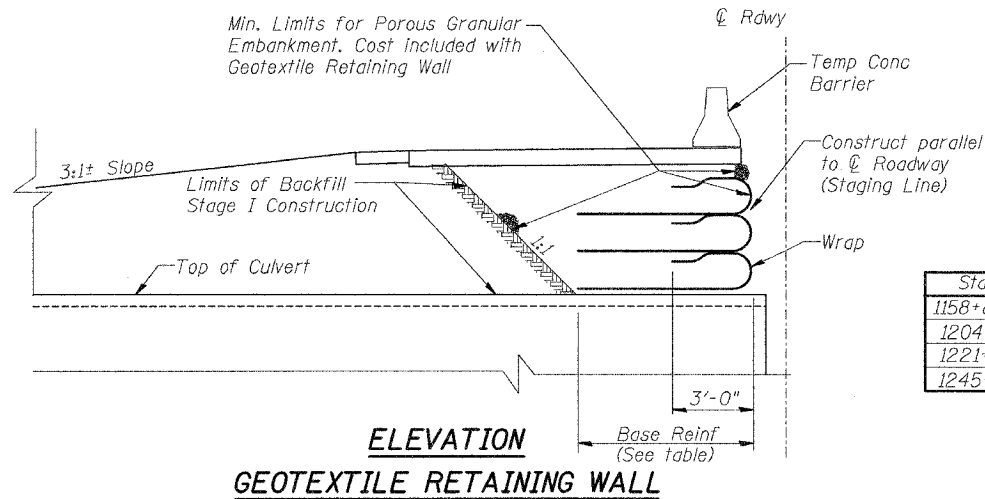
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CHECKED BY: MAR

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STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

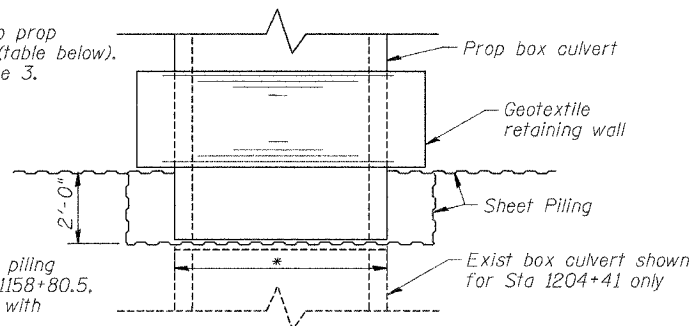
F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
328	5R, Y, RS-1	CLAY	242	56
STA.		TO STA.		
FED. ROAD DIST. NO. 7		ILLINOIS FED. AID PROJECT		
CONTRACT NO. 74078				



Sta	Base Reinf	Wraps	Base of Each Wrap Above Culv	Area
1158+80.5	4.5'	1	0.0	6 sq ft
1204+41	4.5'	1	0.0	10 sq ft
1221+20	7'	4	0.0, 2.0, 4.0, 6.0	57 sq ft
1245+00	7'	4	0.0, 2.0, 4.0, 6.0	59 sq ft

ELEVATION
GEOTEXTILE RETAINING WALL

Note: Piles not adjacent to prop culvert driven to Tip El 3 (table below). To be removed during phase 3.

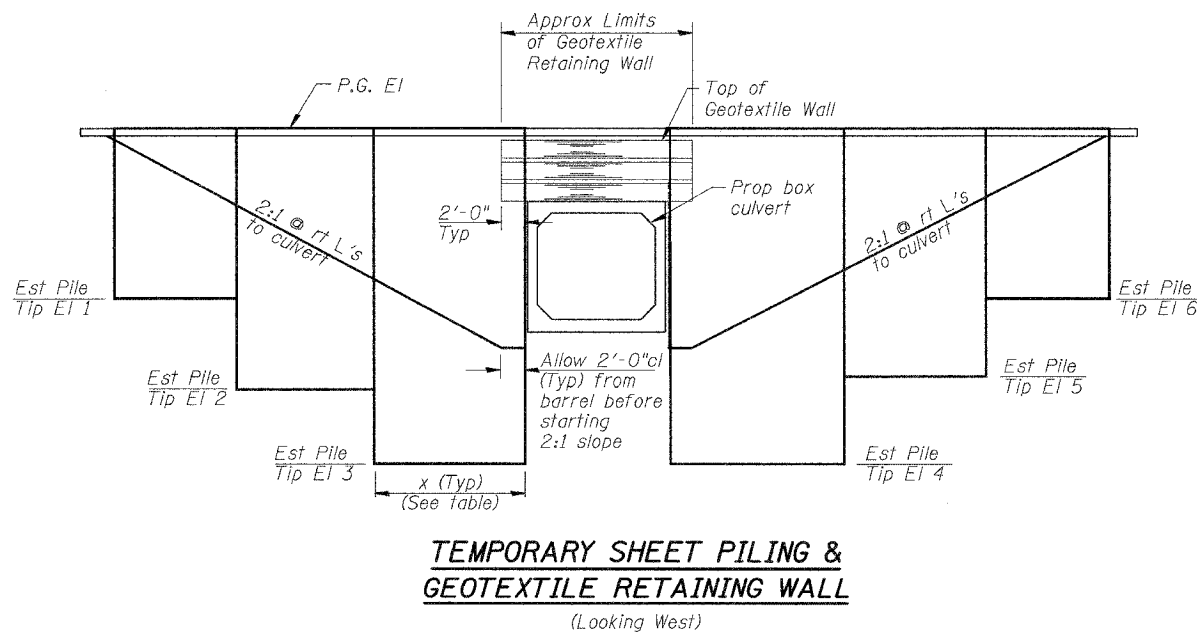


* Contractor to restrain sheet piling on top of exist box at Sta 1158+80.5, and 1204+41. (Cost included with temp sheet piling)
All other locations drive piling to Tip El 3 (table below).

SHEET PILING PLAN VIEW

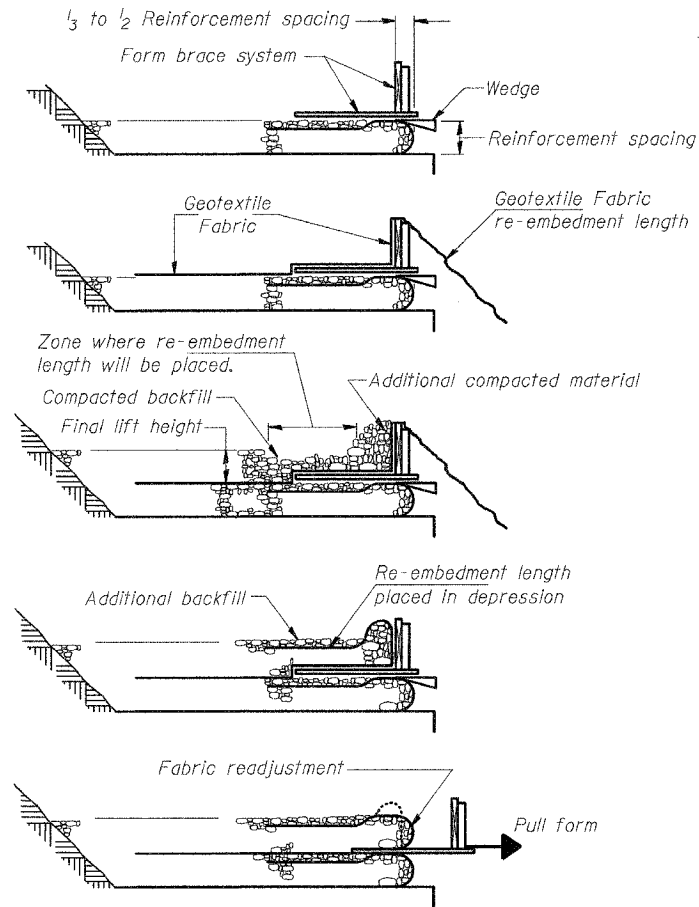
SHEET PILING NOTES

Sheet piling shall have a section modulus per foot of wall not less than 15 cu in/ft. If the contractor chooses to alter the temporary cantilevered sheet piling design requirements shown on the plans for lesser design requirements then, full design submittal with the required seals will be expected by the Department, for review and approval.



Sta	x	P.G. EL	Tip El 1	Tip El 2	Tip El 3	Tip El 4	Tip El 5	Tip El 6	SQ FT
1158+80.5	4'	496.76	493.94	490.94	487.94	487.94	490.94	493.94	140
1204+41	7'	484.48	478.97	473.97	467.97	467.97	473.97	478.97	456
1221+20	10'	474.38	465.38	457.38	449.38	449.38	457.38	465.38	1020
1245+00	10'	481.21	472.21	464.21	456.21	456.21	464.21	472.21	1020
TOTAL									2636

TEMPORARY SHEET PILING & GEOTEXTILE RETAINING WALL
(Looking West)

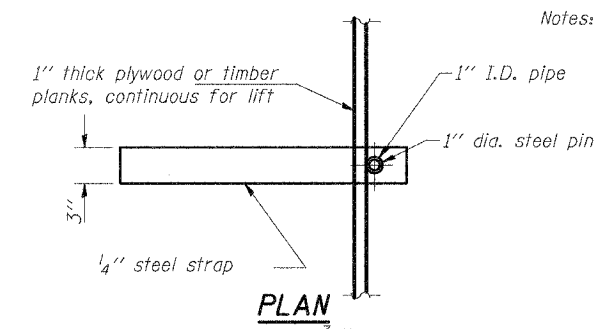


Sequence:

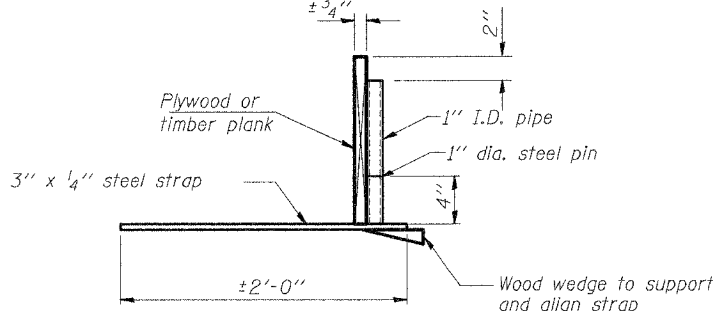
1. Place form brace system on completed reinforcement level; back from the finished fabric face a distance of $\frac{1}{3}$ to $\frac{1}{2}$ the reinforcement spacing.
2. Position fabric so that the required re-embedment length extends over the top of the form brace and the design reinforcement width is placed with no slack against the previous level.
3. Compact backfill material in lifts to final lift height, create ($\pm 3''$) depression in zone where re-embedment length will be located and place additional height of compacted material against form brace.
4. Fold fabric re-embedment length back over form brace into zone where depression was made in backfill and place additional compacted backfill, ($\pm 3''$) to embed fabric and bring to final lift height.
5. Pull form brace outward allowing fabric face to slightly readjust to form tight round face and level with plan reinforcement spacing.

GEOTEXTILE WALL CONSTRUCTION PROCEDURE

Notes: The geotextile fabric shall have a minimum allowable tensile strength (T min.) of 200 lb./in. as determined by the procedure stated in the Special Provisions. The computations supporting the determination of (T min.) shall be submitted to the engineer for approval.



Note: This is a suggested detail, the Contractor is responsible for the design of the form brace system to be used.



ELEVATION
SUGGESTED GEOTEXTILE TEMPORARY FORM BRACE SYSTEM DETAIL

REVISIONS	
NAME	DATE

ILLINOIS DEPARTMENT OF TRANSPORTATION
TEMPORARY SHEET PILING & GEOTEXTILE RETAINING WALL
FAP 328 (US 45)
SECTION 5R, Y, RS-1
CLAY COUNTY

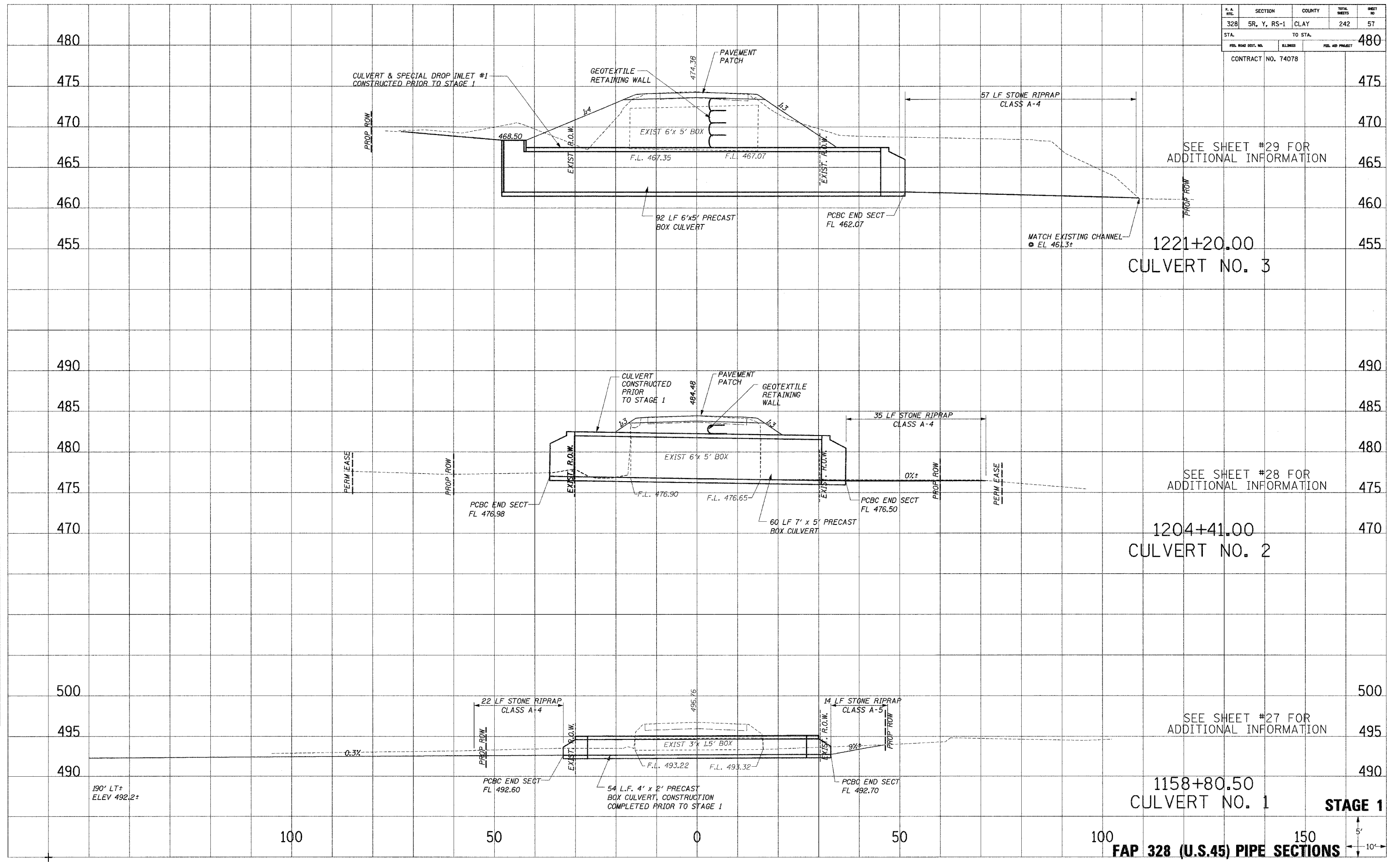
SCALE: VERT.
HORIZ.
DATE: 10-21-05

DRAWN BY: UJ
CHECKED BY: MAR

F.A. RFL.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
328	5R, Y, RS-1	CLAY	242	57
STA.		TO STA.		480
FED. ROAD DIST. NO.	ELLIPHS	FED. AID PROJECT		
CONTRACT NO. 74078				

PLATES
 NOTE BOOK
 TEMPLATE
 AREAS CHECKED

PLATES
 NOTE BOOK
 TEMPLATE
 AREAS CHECKED



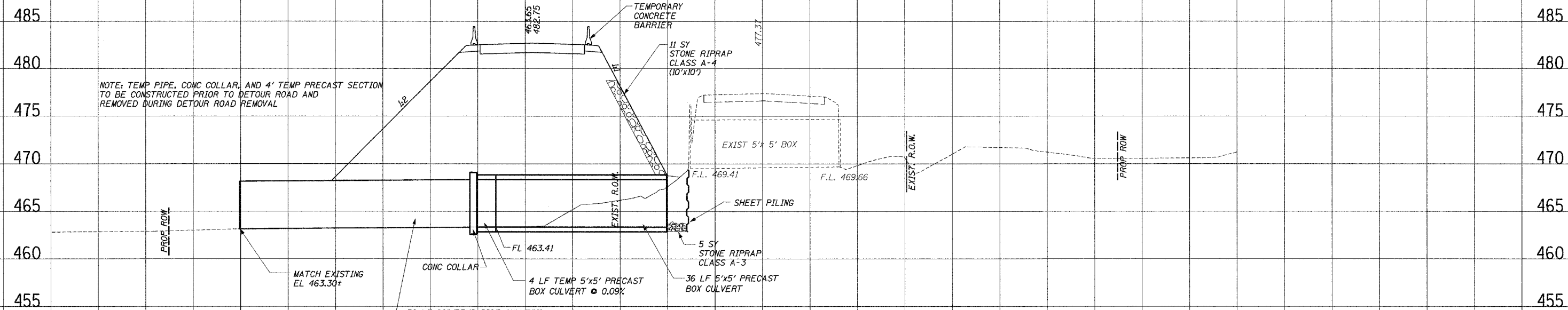
FAP 328 (U.S.45) PIPE SECTIONS

10/25/2006 10:37:12 AM

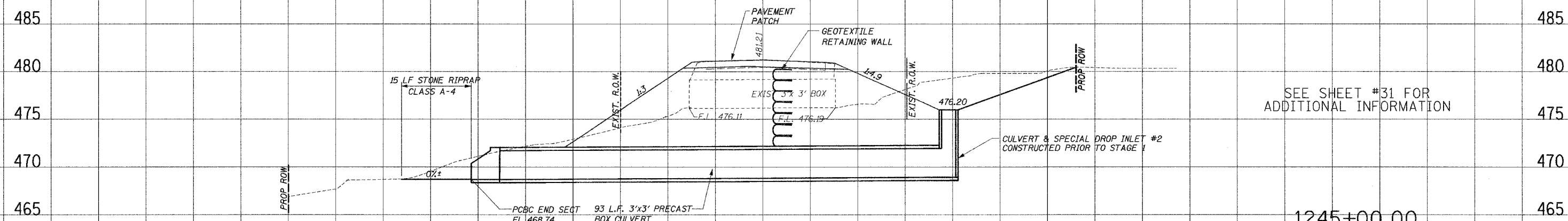
F. & A. R.T.C.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
328	5R, Y, RS-1	CLAY	242	58
STA.		TO STA.		
FED. ROAD DIST. NO.	ELIMINATED	FED. AID PROJECT		
CONTRACT NO. 74078				

DATE: PLATTED
NOTE BOOK NO. TEMPLATE AREAS CHECKED

DATE: PLATTED
NOTE BOOK NO. TEMPLATE AREAS CHECKED



1249+50.00
CULVERT NO. 5

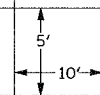


SEE SHEET #31 FOR
ADDITIONAL INFORMATION

1245+00.00
CULVERT NO. 4

STAGE 1

100 50 0 50 100 150
FAP 328 (U.S.45) PIPE SECTIONS

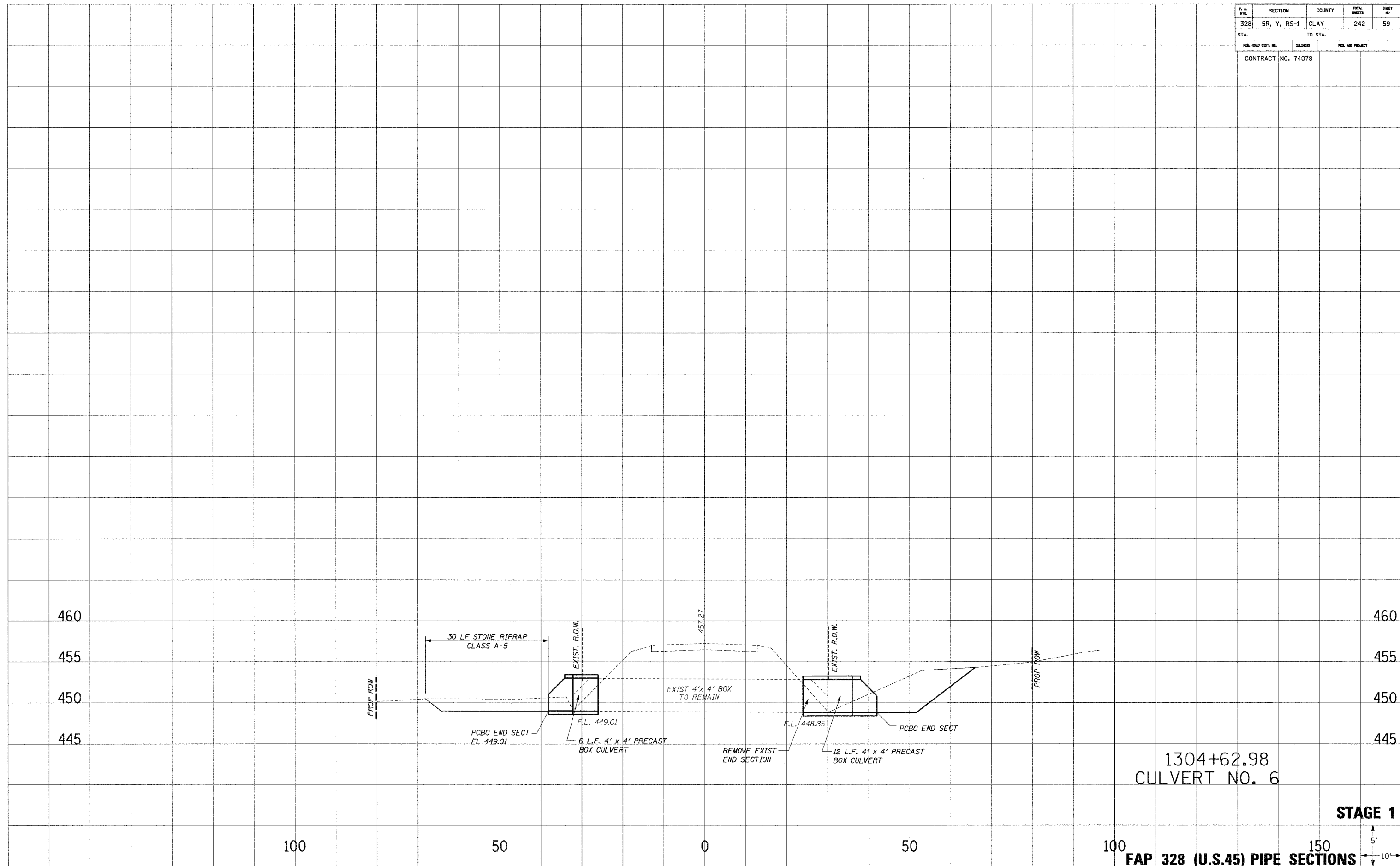


Map\Projects\1245+00.00\1245+00.00\1245+00.00.dwg

F. A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
328	SR, Y, RS-1	CLAY	242	59
STA.		TO STA.		
FED. ROAD DIST. NO.	SLABNO.	FED. AID PROJECT		
CONTRACT NO. 74078				

DATE: _____
 DRAWN BY: _____
 CHECKED BY: _____
 NO. _____

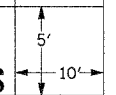
DATE: _____
 DRAWN BY: _____
 CHECKED BY: _____
 NO. _____



1304+62.98
 CULVERT NO. 6

STAGE 1

100 150
 FAP 328 (U.S.45) PIPE SECTIONS

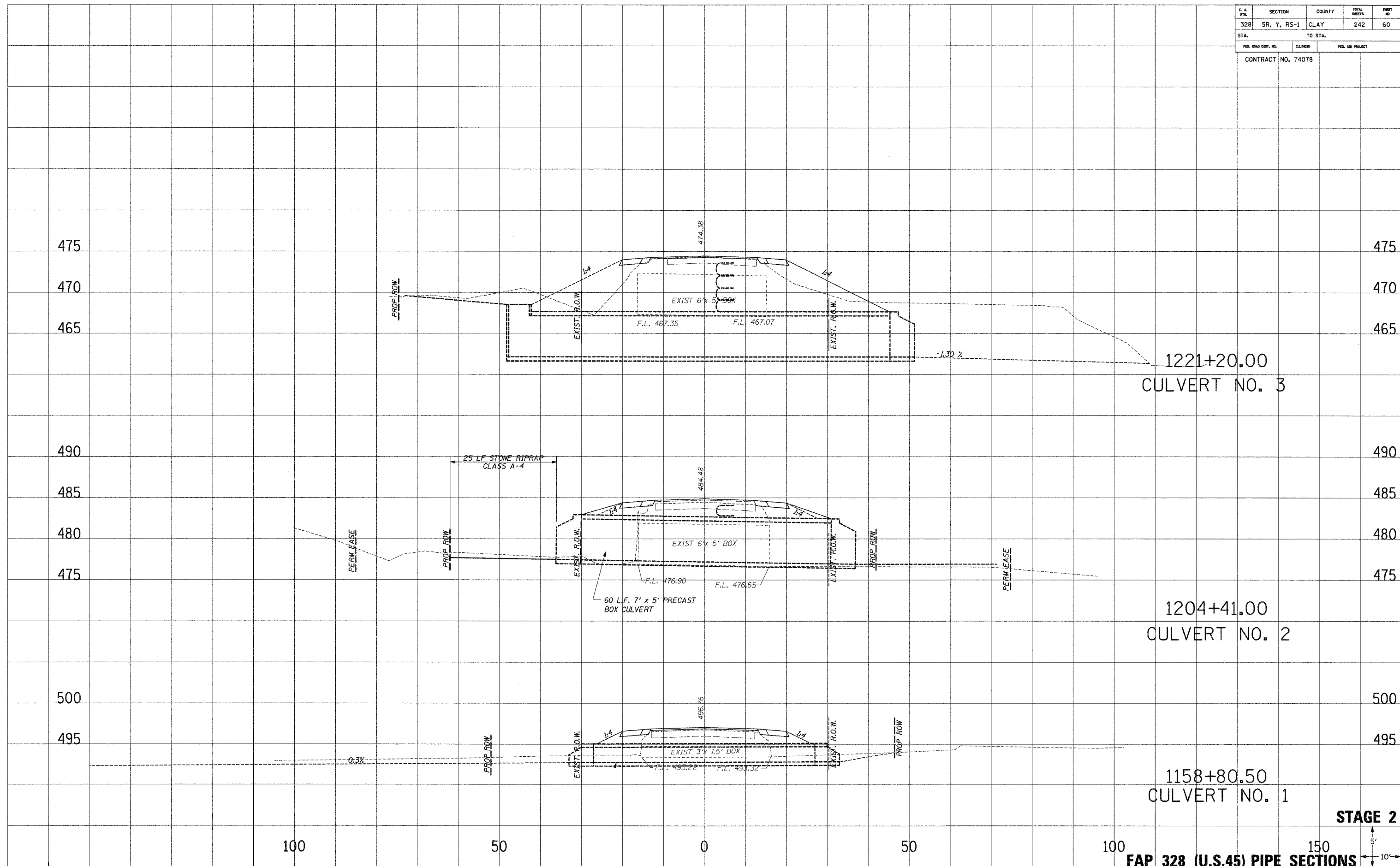


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F. & A. SYL.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
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STA.		TO STA.		
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		
CONTRACT NO. 74078				

PLOTTED
 TEMPLATE
 AREAS CHECKED
 NO.

PLOTTED
 TEMPLATE
 AREAS CHECKED
 NO.

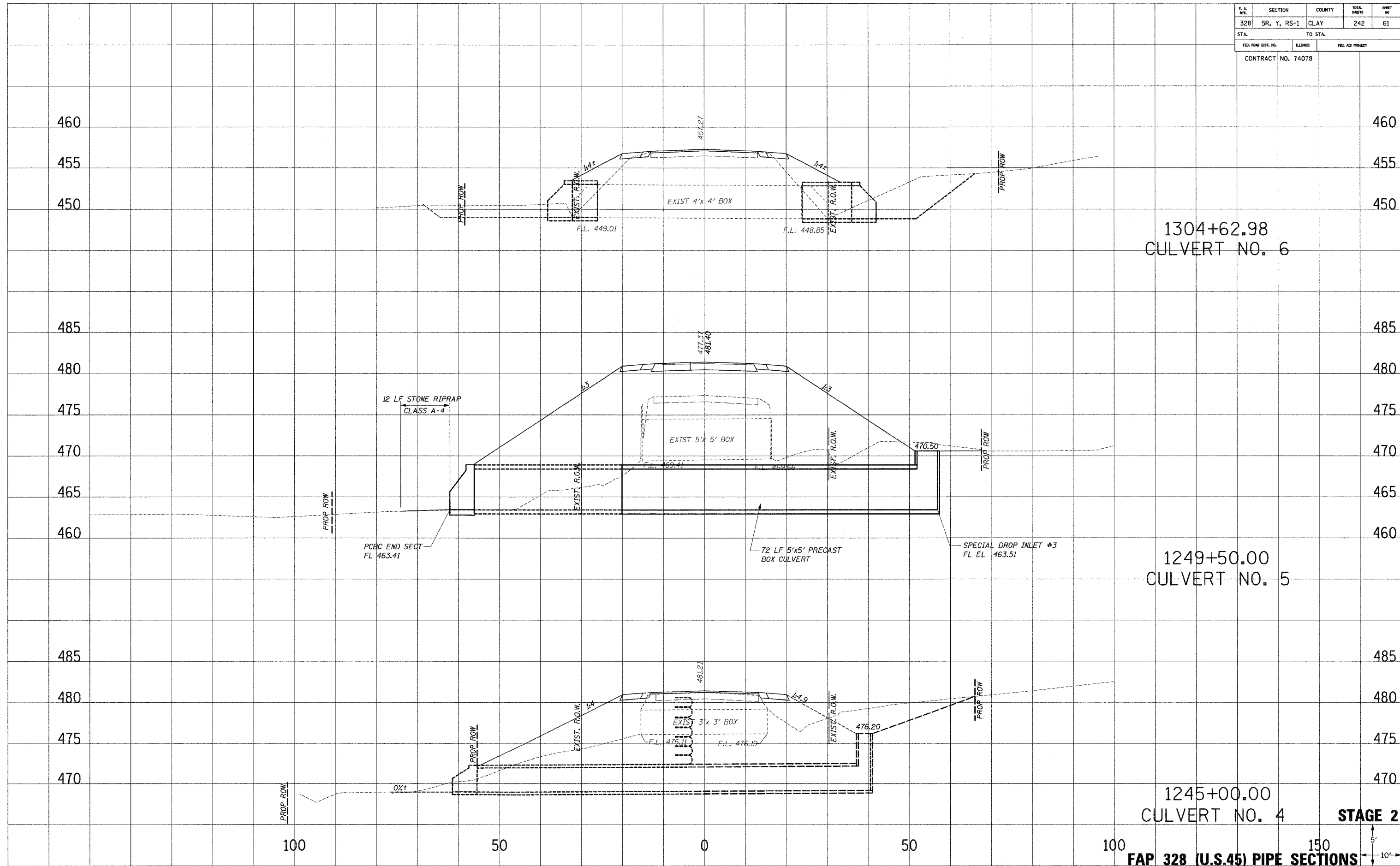


STAGE 2
 100 150
FAP 328 (U.S.45) PIPE SECTIONS
 5'
 10'

F. A. RYE	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
328	5R, Y, RS-1	CLAY	242	61
STA.		TO STA.		
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		
CONTRACT NO. 74078				

PLATES
 NOTE BOOK
 TEMPLATE
 AREAS CHECKED

PLATES
 NOTE BOOK
 TEMPLATE
 AREAS CHECKED



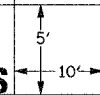
1304+62.98
CULVERT NO. 6

1249+50.00
CULVERT NO. 5

1245+00.00
CULVERT NO. 4

STAGE 2

FAP 328 (U.S.45) PIPE SECTIONS



.../20/2000 10:07:13 AM

F. A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
328	5R, Y, RS-1	CLAY	242	62
STA.		TO STA.		
FED. ROAD DIST. NO.		ILLINOIS	FED. AID PROJECT	
CONTRACT NO. 74078				

500

495

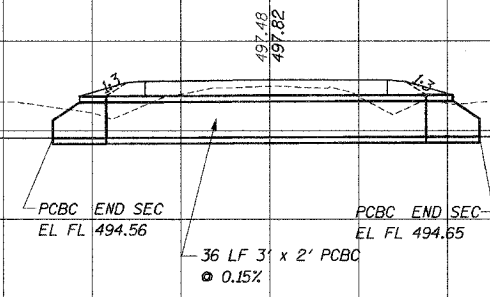
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500

495

490

CULVERT NO. 12
9+66.57
TWP RD 1475N



495

490

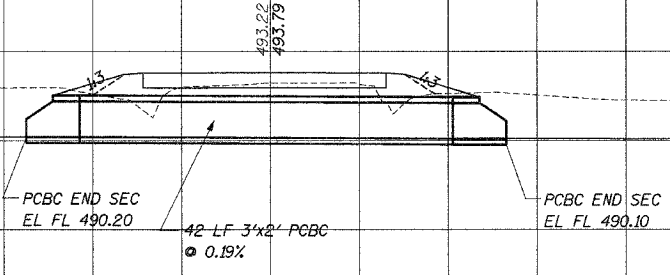
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495

490

485

CULVERT NO. 13
9+66.42
TWP RD 1425N



495

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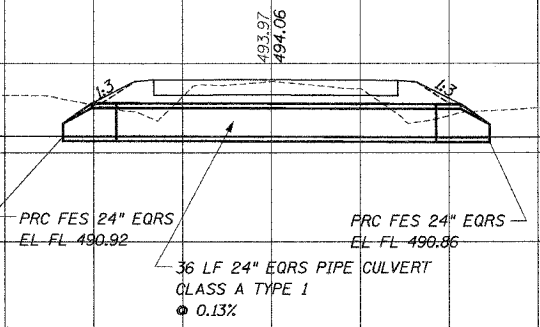
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485

10+33.23
TWP RD 1430N



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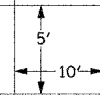
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0

50

100

150



NOTED
NOTE BOOK
NO.

NOTED
NOTE BOOK
NO.

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
F.A.P. 328	5R, Y, RS-1	CLAY	242	63
FED. ROAD DIST. NO. 7		ILLINOIS	FED. AID PROJECT	

SHEET NO. 1
17 SHEETS

CONTRACT NO. 74078

THIS SECTION SHALL BE CONSTRUCTED IN ACCORDANCE WITH THE PLANS; THE "STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION ADOPTED JANUARY 1, 2002; THE "SUPPLEMENTAL SPECIFICATIONS AND RECURRING SPECIAL PROVISIONS" ADOPTED JANUARY 1, 2005 AND THE SPECIAL PROVISIONS INCLUDED IN THE PROPOSAL.

SCOPE OF WORK

THE BRIDGE REHABILITATION PORTION OF THIS CONTRACT INCLUDES REMOVAL OF THE EXISTING BITUMINOUS WEARING SURFACE AND WATERPROOFING MEMBRANE SYSTEM AND PARTIAL AND FULL DEPTH PATCHING OF THE DECKS, THE REMOVAL AND REPLACEMENT OF THE EXPANSION JOINTS ON THE STRUCTURE, THE REMOVAL AND REPLACEMENT OF INDICATED BEARING ASSEMBLIES, CLEANING OF EXISTING BEARING ASSEMBLIES TO REMAIN, PATCHING OF SPALLED PARAPET RAIL AND CONSTRUCTION OF A MICROSILICA CONCRETE OVERLAY ON THE STRUCTURE AND ANY OTHER WORK NECESSARY TO COMPLETE THIS SECTION.

GENERAL NOTES

PLAN DIMENSIONS AND DETAILS RELATIVE TO THE EXISTING STRUCTURE HAVE BEEN TAKEN FROM EXISTING PLANS AND ARE SUBJECT TO NOMINAL CONSTRUCTION VARIATIONS. IT SHALL BE THE CONTRACTORS RESPONSIBILITY TO VERIFY SUCH DIMENSIONS AND DETAILS IN THE FIELD AND MAKE NECESSARY APPROVED ADJUSTMENTS PRIOR TO CONSTRUCTION OR ORDERING OF MATERIAL. SUCH VARIATIONS SHALL NOT BE CAUSE FOR ADDITIONAL COMPENSATION FOR A CHANGE IN THE SCOPE OF THE WORK, HOWEVER, THE CONTRACTOR WILL BE PAID FOR THE QUANTITY ACTUALLY FURNISHED AT THE UNIT PRICE BID FOR THE WORK.

THE LOCATIONS OF THE EXISTING DECK DRAINS TO BE PLUGGED ARE APPROXIMATE. ANY DRAINS THAT ARE LOCATED WITHIN TEN FEET OF AN ABUTMENT OR PIER ARE TO BE PLUGGED. DRAIN EXTENSIONS REMOVED FOR PLUGGING DRAINS SHALL BE USED TO REPLACE DAMAGED OR MISSING EXTENSIONS AT OTHER LOCATIONS ON THE STRUCTURE.

FOLLOWING THE REMOVAL OF THE BITUMINOUS SURFACE AND WATERPROOFING, THE BRIDGE DECK SHALL BE SCARIFIED TO A DEPTH OF THREE-FOURTHS OF AN INCH. THE BRIDGE DECK MICROSILICA CONCRETE OVERLAY SHALL BE CONSTRUCTED AT A DEPTH OF THREE INCHES.

EXISTING REINFORCEMENT BARS SHALL BE CLEANED AND USED FOR NEW CONSTRUCTION. ALL NEW REINFORCEMENT BARS SHALL BE EPOXY COATED WITH EPOXY COATED BAR SPLICERS FOR STAGED CONSTRUCTION.

EXISTING REINFORCEMENT BARS EXTENDING INTO THE REMOVAL AREA SHALL BE CLEANED, STRAIGHTENED AND INCORPORATED INTO THE NEW CONSTRUCTION. ANY REINFORCEMENT BARS THAT ARE DAMAGED DURING CONCRETE REMOVAL SHALL BE REPLACED WITH AN APPROVED BAR SPLICER OR ANCHORAGE SYSTEM. COST INCLUDED WITH CONCRETE REMOVAL.

REINFORCEMENT BARS SHALL CONFORM TO THE REQUIREMENTS OF AASHTO M-31 or M322 GRADE 60.

ALL NEW STRUCTURAL STEEL SHALL CONFORM TO THE AASHTO CLASSIFICATION M-270 GRADE 36, UNLESS OTHERWISE SPECIFIED.

THE EXISTING STRUCTURAL STEEL COATING CONTAINS LEAD. THE CONTRACTOR SHALL TAKE APPROPRIATE PRECAUTIONS TO DEAL WITH THE PRESENCE OF LEAD ON THIS PROJECT.

EXISTING BEARINGS WHICH ARE TO REMAIN SHALL BE CLEANED AND PAINTED AS REQUIRED BY THE SPECIAL PROVISION "CLEANING AND PAINTING EXISTING STEEL STRUCTURES". POWER TOOL CLEANING-MODIFIED SP3, PAINTED WITH SYSTEM 4-PS/EM/AC.

EXISTING STRUCTURAL STEEL SHALL ONLY BE CLEANED AND PAINTED AS REQUIRED BY THE SPECIAL PROVISION "CLEANING AND PAINTING CONTACT SURFACE AREAS OF EXISTING STEEL STRUCTURES".

THE INORGANIC ZINC RICH PRIMER/ACRYLIC/ACRYLIC PAINT SYSTEM SHALL BE USED FOR SHOP AND FIELD PAINTING OF NEW STRUCTURAL STEEL EXCEPT WHERE OTHERWISE NOTED. THE COLOR OF THE ACRYLIC FINISH COAT SHALL BE INTERSTATE GREEN, MUNSHILL NO. 7.5G 4/8. SEE SPECIAL PROVISIONS FOR "CLEANING AND PAINTING NEW METAL STRUCTURES". EXPANSION JOINT PLATES AND ATTACHED BARS SHALL BE SHOP PAINTED WITH THE ZINC RICH PRIMER PER AASHTO M 300, TYPE1. COST INCLUDED WITH FURNISHING & ERECTING STRUCTURAL STEEL.

SPALLED AREAS OF THE INSIDE FACE OF THE EXISTING PARAPET SHALL BE REPAIRED USING POLYMER MODIFIED PORTLAND CEMENT MORTAR.

JOINT OPENINGS SHALL BE ADJUSTED ACCORDING TO ARTICLE 503.10(C) OF THE STANDARD SPECIFICATIONS WHEN THE DECK IS POURED AT AN AMBIENT TEMPERATURE OTHER THAN 50° F.

FASTENERS SHALL BE HIGH STRENGTH BOLTS. BOLTS 3/4", OPEN HOLES 1/8". UNLESS OTHERWISE NOTED.

SEE ROADWAY PLANS FOR THE GRADE UNDER THE EXISTING STRUCTURE.

DESIGN STRESSES (REHAB)

FIELD UNITS
f'c = 3,500 psi
fy = 60,000 psi (Reinf.)
fy = 36,000 psi (M 270, GRADE 36)

DESIGNED	B.W.P.
CHECKED	R.P.B.
DRAWN	D.J.S.
CHECKED	R.P.B.

TOTAL BILL OF MATERIAL

ITEM	UNIT	TOTAL
BITUMINOUS CONCRETE REMOVAL (DECK)	SQ YD	2599
CONCRETE REMOVAL	CU YD	21.6
STRIP SEAL EXPANSION JOINT ASSEMBLY	FOOT	70
NEOPRENE EXPANSION JOINT 4"	FOOT	69
CONCRETE SUPERSTRUCTURE	CU YD	23.0
BRIDGE DECK GROOVING	SQ YD	2480
ELASTOMERIC BEARING ASSEMBLY, TYPE I	EACH	5
ELASTOMERIC BEARING ASSEMBLY, TYPE II	EACH	25
FURNISHING AND ERECTING STRUCTURAL STEEL	POUND	5200
JACK AND REMOVE EXISTING BEARINGS	EACH	30
REINFORCEMENT BARS, EPOXY COATED	POUND	3000
POLYMER MOD. PORTLAND CEMENT MORTAR	SQ FT	30
PLUG EXISTING DRAINS	EACH	82
CLEANING AND PAINTING EXISTING BEARINGS	EACH	40
BAR SPLICERS	EACH	54
BRIDGE DECK MICROSILICA CONCRETE OVERLAY	SQ YD	2599
BRIDGE DECK HYDRO-SCARIFICATION 1/4"	SQ YD	2599
FLOOR DRAIN EXTENSIONS	EACH	4
DECK SLAB REPAIR (FULL DEPTH, TYPE II)	SQ YD	100

*SEE SPECIAL PROVISIONS



10/25/05
John S. Peradotti
John S. Peradotti
Licensed Structural Engineer
In Illinois No. 81-005671
License Expires 11/30/06

**GENERAL NOTES
AND BILL OF MATERIAL
FAP 328 - SECTION 5BR-2
OVER LITTLE WABASH RIVER
CLAY COUNTY
STATION 1281+15
STRUCTURE NO. 013-0010**

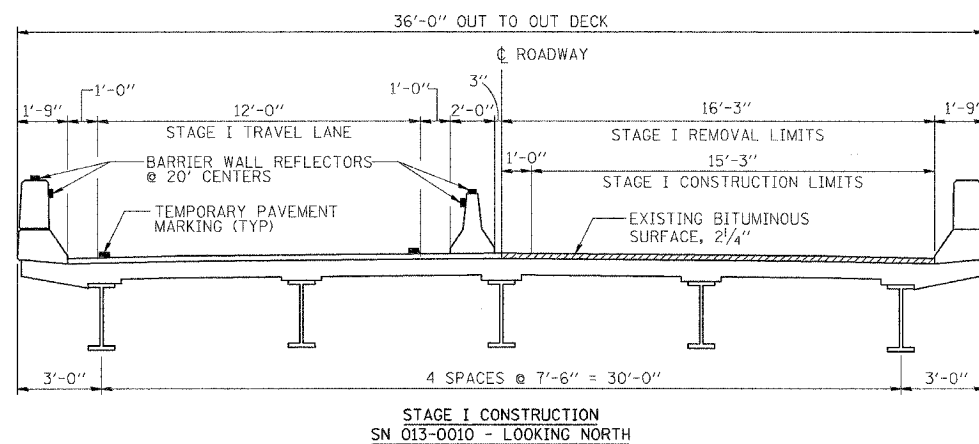
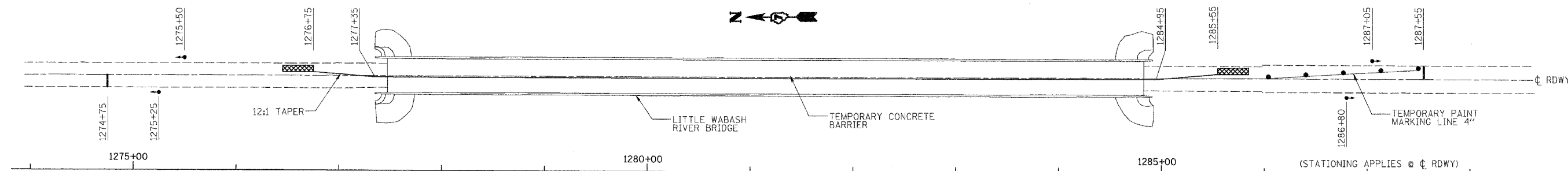
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

ROUTE NO.	SECTION	COUNTY	SHEET NO.	SHEET TOTAL
F.A.P. 328	5R, Y, RS-1	CLAY	242	64
FED. ROAD DIST. NO. 7		ILLINOIS	FED. AID PROJECT	

CONTRACT NO. 74078

SHEET NO. 2
17 SHEETS

STAGE I



NOTE:
ALL TRAFFIC CONTROL SHALL BE IN ACCORDANCE WITH STANDARD 701321-07

TEMPORARY CONCRETE BARRIER
CL 1276+75 TO 1285+55 880 FT

IMPACT ATTENUATORS, RELOCATE (FULLY REDIRECTIVE), TEST LEVEL 3
CL 1276+75 1 EACH
CL 1285+55 1 EACH

TEMPORARY RUMBLE STRIPS
RT 1267+75 1 EACH LT 1294+55 1 EACH
RT 1262+75 1 EACH LT 1299+55 1 EACH
RT 1257+75 1 EACH LT 1304+55 1 EACH

WORK ZONE PAVEMENT MARKING REMOVAL
CL 1274+75 TO 1277+35 22 SQ FT
CL 1284+95 TO 1287+55 22 SQ FT
RT EL 1276+75 TO 1285+55 294 SQ FT

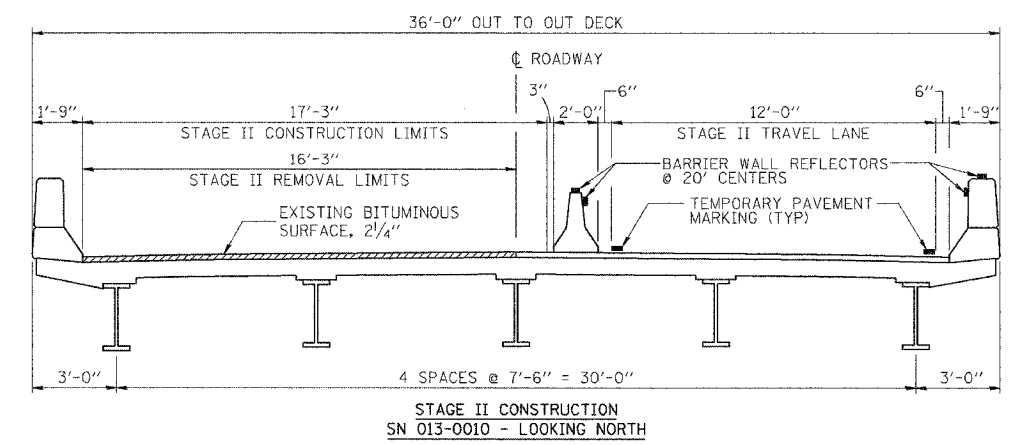
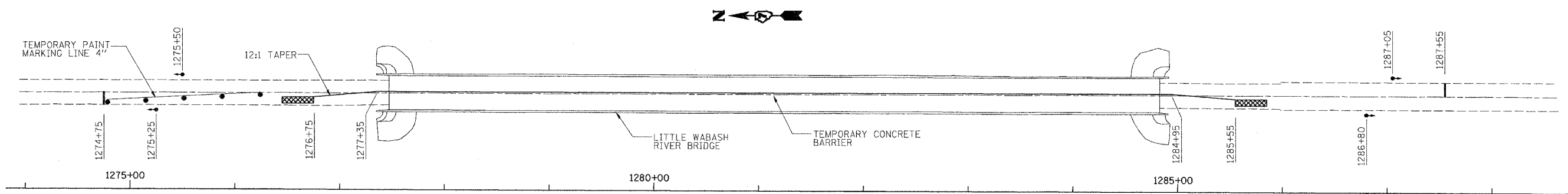
TEMPORARY PAVEMENT MARKING - LINE 4"
CL 1276+75 TO 1287+55 1080 FT
RT EL 1276+75 TO 1285+55 880 FT

TEMPORARY BRIDGE TRAFFIC SIGNALS 1 EACH

LEGEND

- TEMPORARY BRIDGE TRAFFIC SIGNAL
- DRUM WITH STEADY BURNING LIGHT
- ▨ IMPACT ATTENUATORS, TEMPORARY (FULLY REDIRECTIVE), TEST LEVEL 3

STAGE II



IMPACT ATTENUATORS, RELOCATE (FULLY REDIRECTIVE), TEST LEVEL 3
CL 1276+75 1 EACH
CL 1285+55 1 EACH

RELOCATE TEMPORARY CONCRETE BARRIER
CL 1276+75 TO 1285+55 880 FT

WORK ZONE PAVEMENT MARKING REMOVAL
LT EL 1276+75 TO 1285+55 294 SQ FT

TEMPORARY PAVEMENT MARKING LINE - 4"
CL 1274+75 TO 1285+55 1080 FT
LT EL 1276+75 TO 1285+55 880 FT

LEGEND

- TEMPORARY BRIDGE TRAFFIC SIGNAL
- DRUM WITH STEADY BURNING LIGHT
- ▨ IMPACT ATTENUATORS, TEMPORARY (FULLY REDIRECTIVE), TEST LEVEL 3

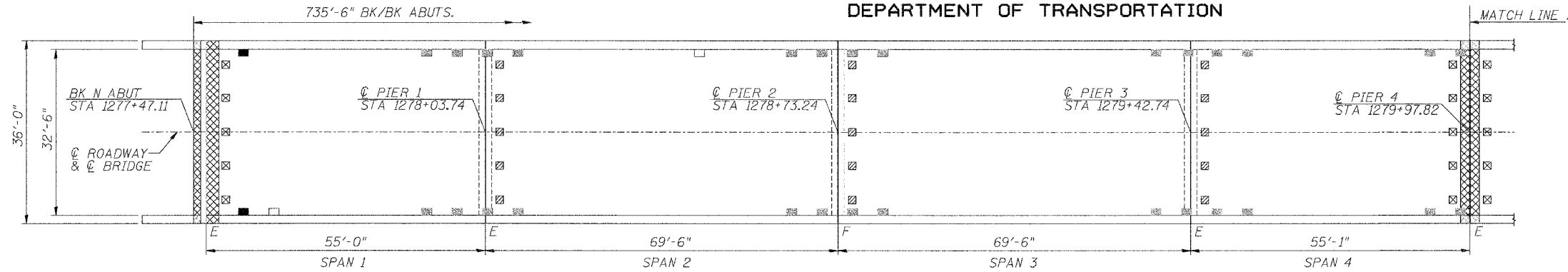
DESIGNED	B.W.P.
CHECKED	R.P.B.
DRAWN	D.J.S.
CHECKED	R.P.B.

STAGE CONSTRUCTION DETAILS
FAP 328 - SECTION 5BR-2
OVER LITTLE WABASH RIVER
CLAY COUNTY
STATION 1281+15
STRUCTURE NO. 013-0010

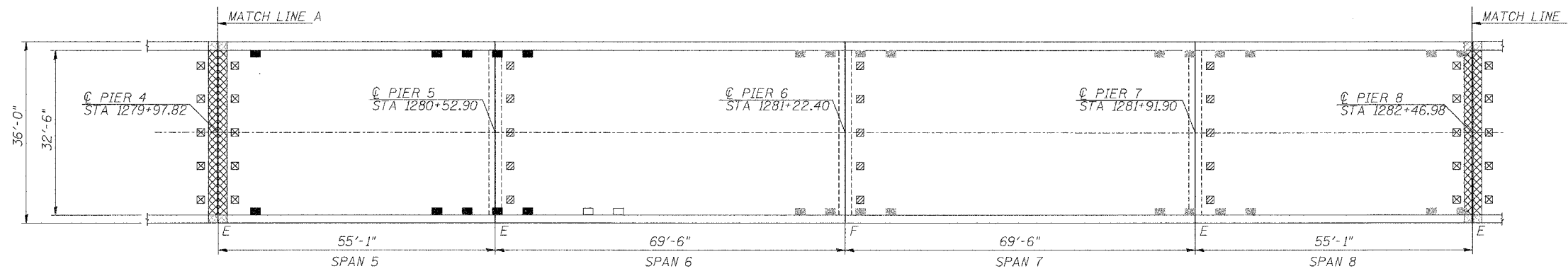
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
F.A.P. 328	5R, Y, RS-1	CLAY	242	65
FED. ROAD DIST. NO. 7		ILLINOIS	FED. AID PROJECT-	
CONTRACT NO. T4078				

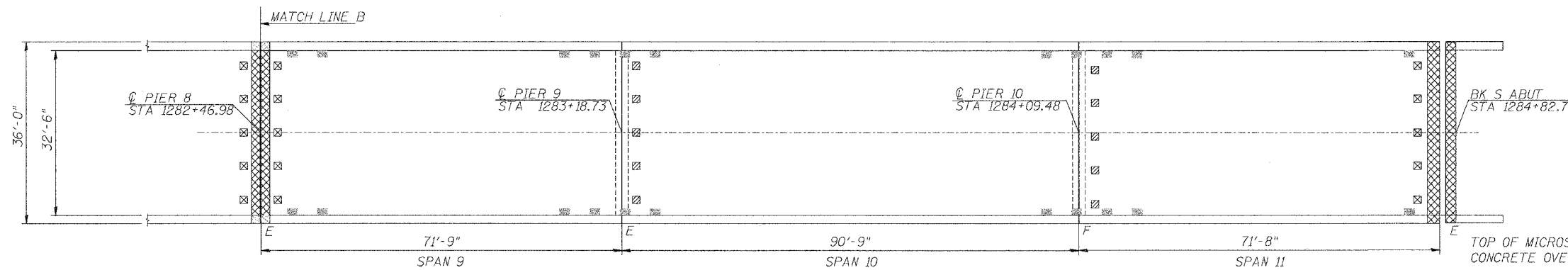
SHEET NO. 3
17 SHEETS



UNIT A

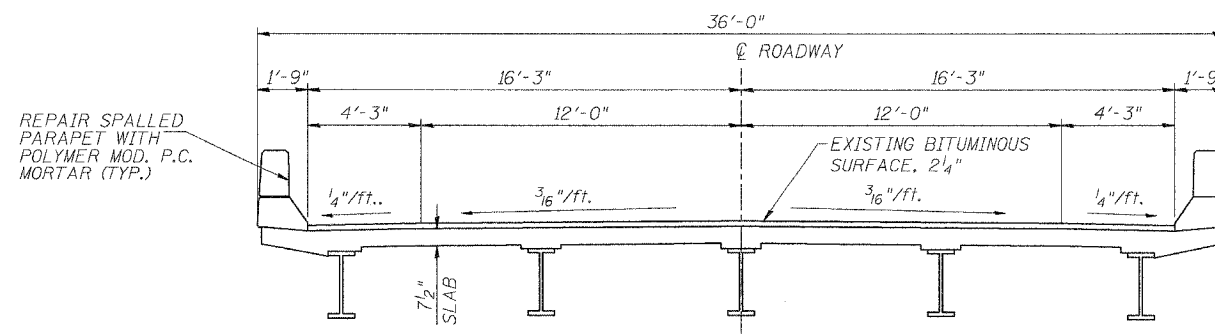


UNIT B



UNIT C

NOTES: SPANS 9, 10, AND 11 ARE COMPOSITE IN POSITIVE MOMENT REGIONS.

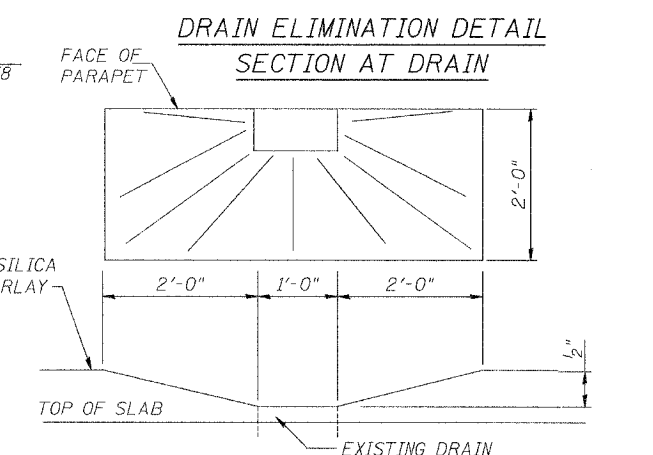
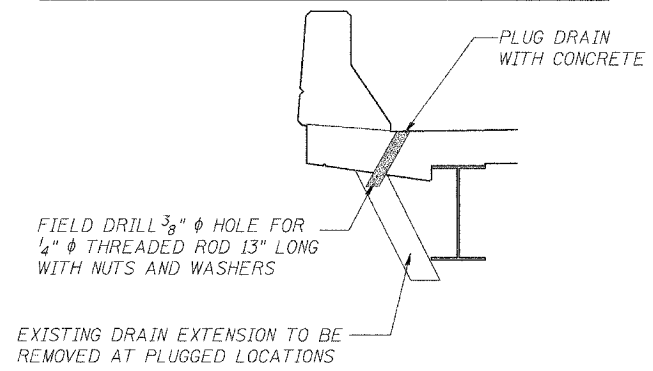


CROSS SECTION

LEGEND

- EXPANSION JOINT TO BE REPLACED
- CLEAN AND PAINT EXISTING BEARINGS
- EXPANSION BEARINGS TO BE REPLACED WITH NEW ELASTOMERIC BEARINGS
- PLUG EXISTING DECK DRAINS; OTHER EXISTING DECK DRAINS NOT SHOWN.
- DAMAGED OR MISSING DRAIN EXTENSION TO BE REPLACED

NOTE: REMOVE WATERPROOFING MEMBRANE AND BITUMINOUS WEARING SURFACING; REPLACE WITH MICROSILICA CONCRETE OVERLAY.



MICROSILICA CONCRETE OVERLAY DETAIL FOR EXISTING DECK DRAINS THAT ARE TO REMAIN OPEN

DESIGNED	B.W.P.
CHECKED	R.P.B.
DRAWN	D.J.S.
CHECKED	R.P.B.

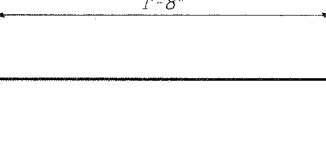
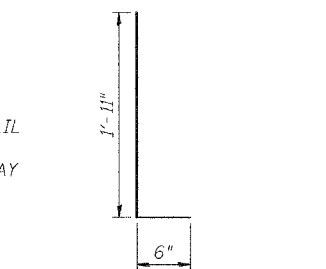
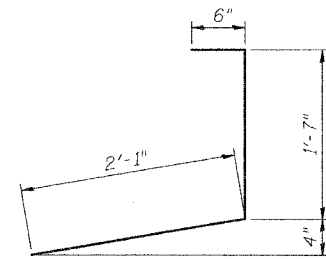
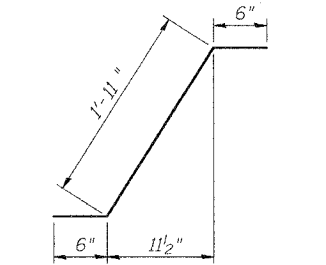
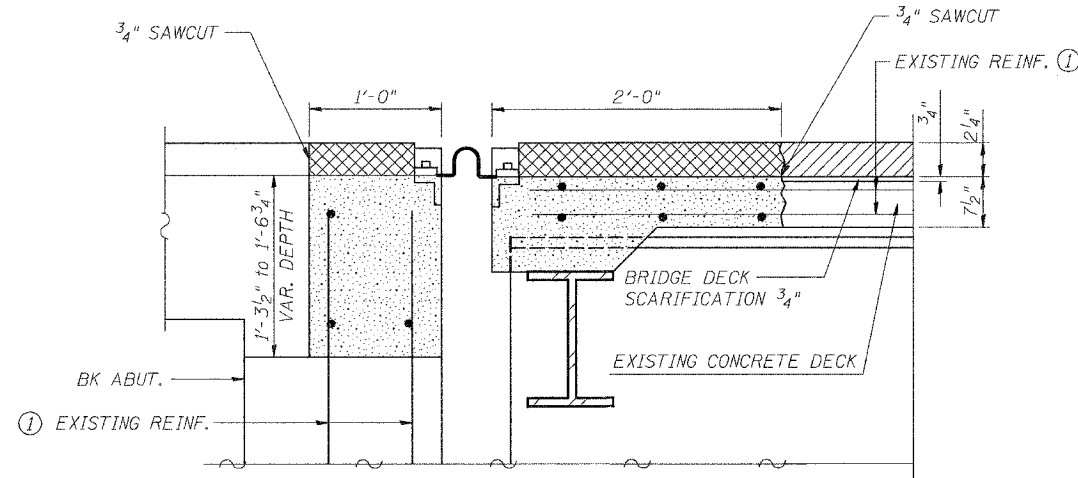
**EXISTING STRUCTURE DETAILS
DRAIN ELIMINATION DETAIL AND
MICROSILICA CONCRETE DETAIL**
FAP 328 - SECTION 5BR-2
OVER LITTLE WABASH RIVER
CLAY COUNTY
STATION 1281+15
STRUCTURE NO. 013-0010

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
F.A.P. 328	5BR,RS-1	CLAY	242	66
FED. ROAD DIST. NO. 7		ILLINOIS	FED. AID PROJECT-	
CONTRACT NO. T4078				

BAR LIST - NORTH ABUTMENT						
BARS	NUMBER OF BARS		TOTAL	SIZE	LENGTH FOOT	SHAPE
	STAGE 1	STAGE 2				
d(E)	8		8	#5	16'-8"	—
d1(E)		8	8	#5	18'-8"	—
d(E)	3	3	6	#5	2'-11"	┌
d1(E)	3	3	6	#4	4'-2"	┌
d2(E)	6	6	12	#5	2'-5"	┌
h(E)	3		3	#6	16'-8"	—
h1(E)		3	3	#6	18'-8"	—
x(E)	17	19	36	#5	2'-3"	┌

BILL OF MATERIAL - NORTH ABUTMENT - SN 013-0010				
ITEM	UNIT	STAGE I	STAGE II	TOTAL
CONCRETE REMOVAL	CU YD	2.8	2.8	5.6
BRIDGE JOINT SYSTEM (EXPANSION), 15 ⁸ "	FOOT	16.50	18.50	35.0
CONCRETE SUPERSTRUCTURE	CU YD	2.6	2.8	5.4
REINFORCEMENT BARS (EPOXY COATED)	POUND	290	320	610
BAR SPLICERS	EACH	11	---	11

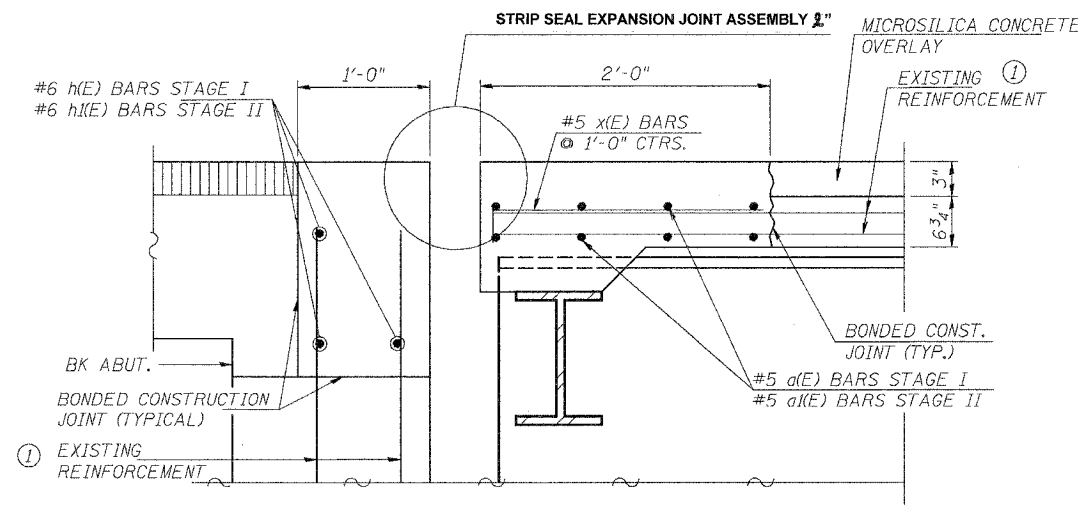
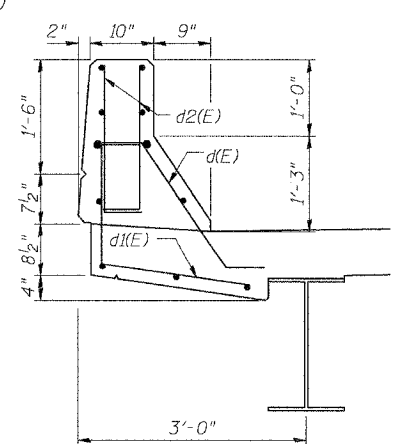
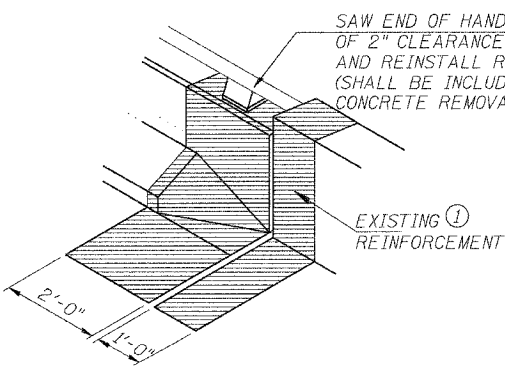
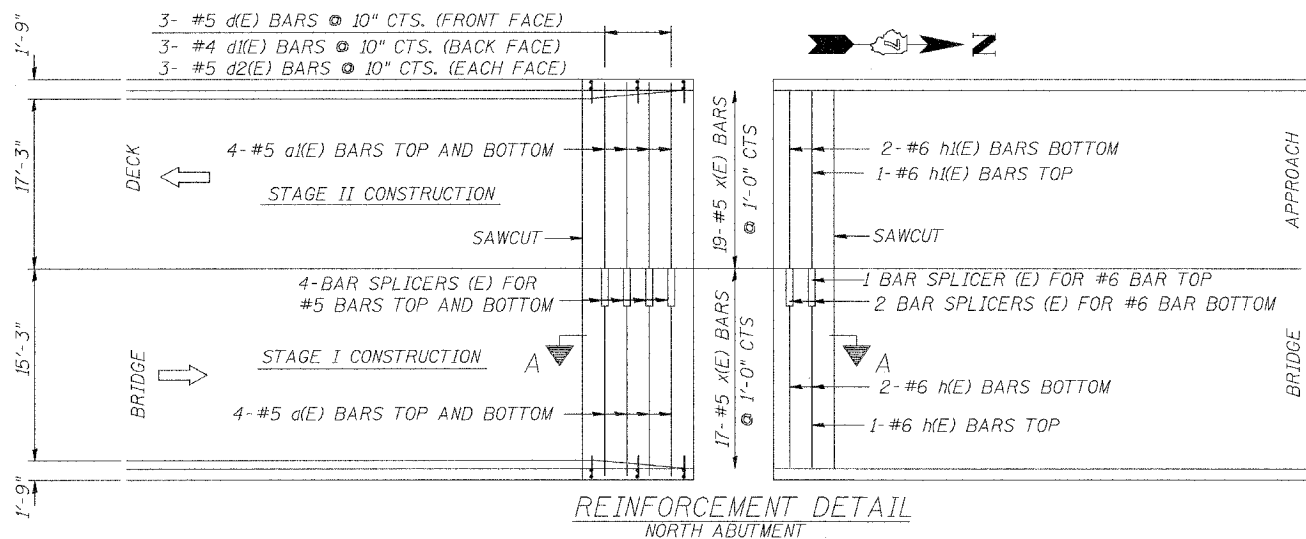


EXISTING NORTH ABUTMENT
SECTION A-A

(1) EXISTING REINFORCEMENT BARS SHALL BE CLEANED, STRAIGHTENED AND INCORPORATED INTO THE NEW CONCRETE

- CONCRETE REMOVAL
- BITUMINOUS CONCRETE REMOVAL
- BITUMINOUS CONCRETE REMOVAL TO BE PAID FOR AS CONCRETE REMOVAL

DURING CONCRETE REMOVAL IT WILL BE NECESSARY TO REMOVE A PORTION OF THE ALUMINUM RAIL AND SOME RAIL POSTS. THE ANCHORAGE DEVICES AND BOLTS FOR THE RAIL POSTS SHALL BE SALVAGED FOR REINSTALLATION. AFTER REINSTALLATION, THE BASE OF THE POSTS SHALL BE SEALED WITH A TWO COMPONENT NON-STAINING GRAY SEALING COMPOUND WITH POLYSULFIDE LIQUID POLYMERS-GUN GRADE WITH PRIMER. COST OF REMOVAL AND REINSTALLATION OF RAILING IS INCLUDED WITH CONCRETE REMOVAL.



For Bar Splicer details see sheet 10 of 17
For Bridge Joint System details see sheets 11 and 12 of 17

EXPANSION JOINT DETAILS
NORTH ABUTMENT
FAP 328 - SECTION 5BR-2
OVER LITTLE WABASH RIVER
CLAY COUNTY
STATION 1281+15
STRUCTURE NO. 013-0010

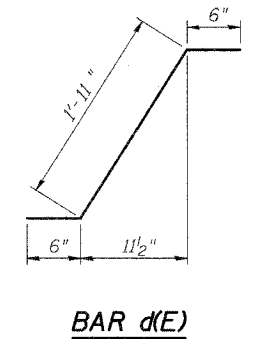
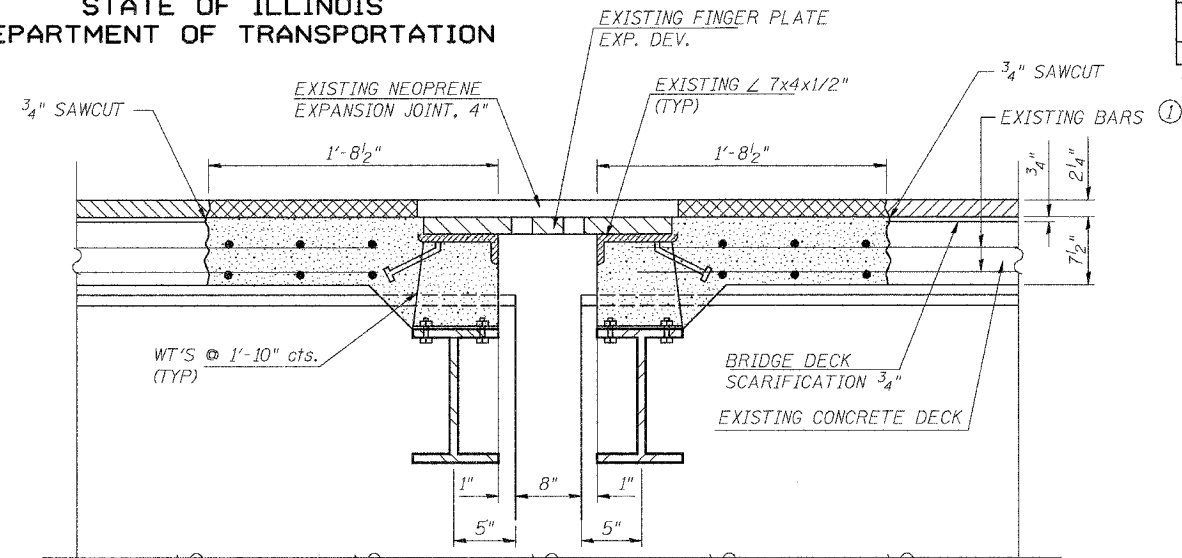
DESIGNED	B.W.P.
CHECKED	R.P.B.
DRAWN	D.J.S.
CHECKED	R.P.B.

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
F.A.P. 328	5BR,RS-1	CLAY	242	67
FED. ROAD DIST. NO. 7		ILLINOIS	FED. AID PROJECT-	
CONTRACT NO. T4078				

BAR LIST - PIER 4 & 8 (QUANTITIES SHOWN FOR ONE PIER)						
BARS	NUMBER OF BARS		TOTAL (EA. PIER)	SIZE	LENGTH FOOT	SHAPE
	STAGE I	STAGE 2				
a(E)	16		16	#5	16'-8"	—
a1(E)		16	16	#5	18'-8"	—
d(E)	6	6	12	#5	2'-11"	┌
d1(E)	6	6	12	#4	4'-2"	└
d2(E)	12	12	24	#5	2'-5"	└
x(E)	34	38	72	#5	2'-3"	└

BILL OF MATERIAL - PIER 4 & 8 - SN 013-0010 (QUANTITIES SHOWN FOR ONE PIER)				
ITEM	UNIT	STAGE I	STAGE II	TOTAL (EA. PIER)
CONCRETE REMOVAL	CU YD	2.6	2.6	5.2
NEOPRENE EXPANSION JOINT, 4"	FOOT	16.25	18.25	34.5
CONCRETE SUPERSTRUCTURE	CU YD	2.9	3.2	6.1
REINFORCEMENT BARS (EPOXY COATED)	POUND	424	466	890
BAR SPLICERS	EACH	16	---	16



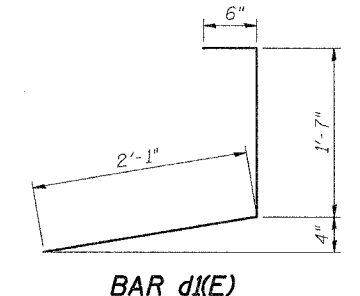
EXISTING PIER 4 & 8
SECTION A-A

REMOVE EXISTING FINGER PLATE EXPANSION DEVICE ENTIRE WIDTH OF DECK
REMOVAL OF EXISTING NEOPRENE EXPANSION JOINT AND STEEL INCLUDING
ANGLES AND STOOLS SHALL BE INCLUDED IN THE COST OF CONCRETE REMOVAL.

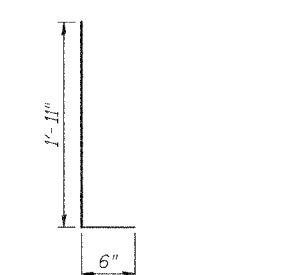
① EXISTING REINFORCEMENT BARS SHALL
BE CLEANED, STRAIGHTENED AND INCORPORATED INTO
THE NEW CONCRETE

- CONCRETE REMOVAL
- BITUMINOUS CONCRETE REMOVAL
- BITUMINOUS CONCRETE REMOVAL TO
BE PAID FOR AS CONCRETE REMOVAL

DURING CONCRETE REMOVAL IT WILL BE NECESSARY TO REMOVE A PORTION OF THE ALUMINUM RAIL AND SOME RAIL
POSTS. THE ANCHORAGE DEVICES AND BOLTS FOR THE RAIL POSTS SHALL BE SALVAGED FOR REINSTALLATION.
AFTER REINSTALLATION, THE BASE OF THE POSTS SHALL BE SEALED WITH A TWO COMPONENT NON-STAINING GRAY
SEALING COMPOUND WITH POLYSULFIDE LIQUID POLYMERS-GUN GRADE WITH PRIMER. COST OF REMOVAL AND
REINSTALLATION OF RAILING IS INCLUDED WITH CONCRETE REMOVAL.



BAR d1(E)

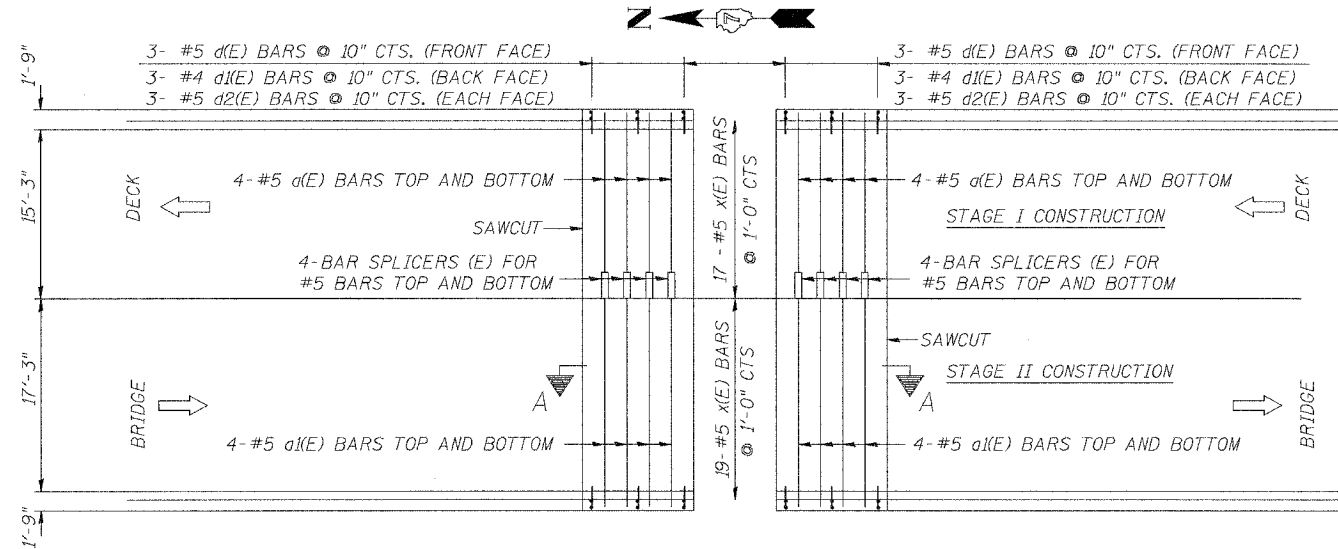


BAR d2(E)

BAR x(E)

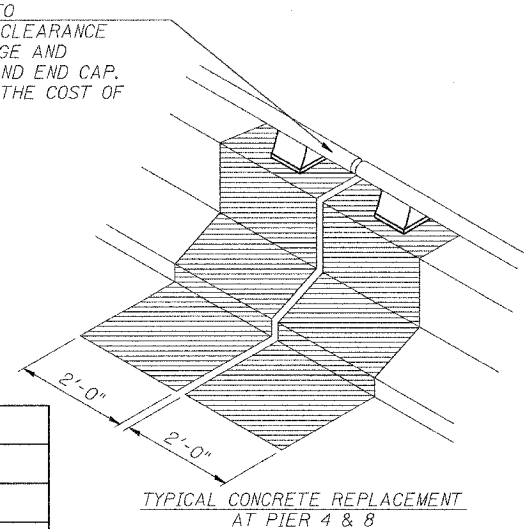
For Bar Splicer details see sheet 10 of 17
For Neoprene Expansion Joint details see sheet 13 of 17

EXPANSION JOINT DETAILS
PIER 4 & 8
FAP 328 - SECTION 5BR-2
OVER LITTLE WABASH RIVER
CLAY COUNTY
STATION 1281+15
STRUCTURE NO. 013-0010

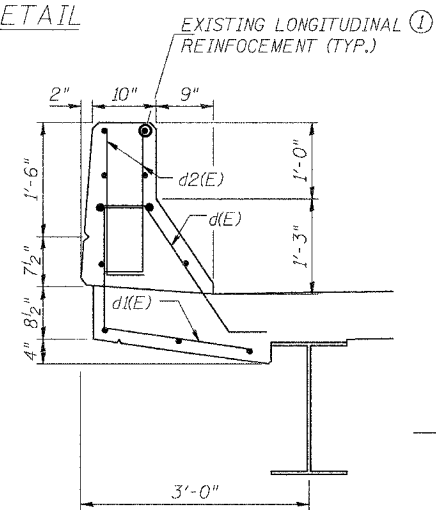


REINFORCEMENT DETAIL
PIER 4 & 8

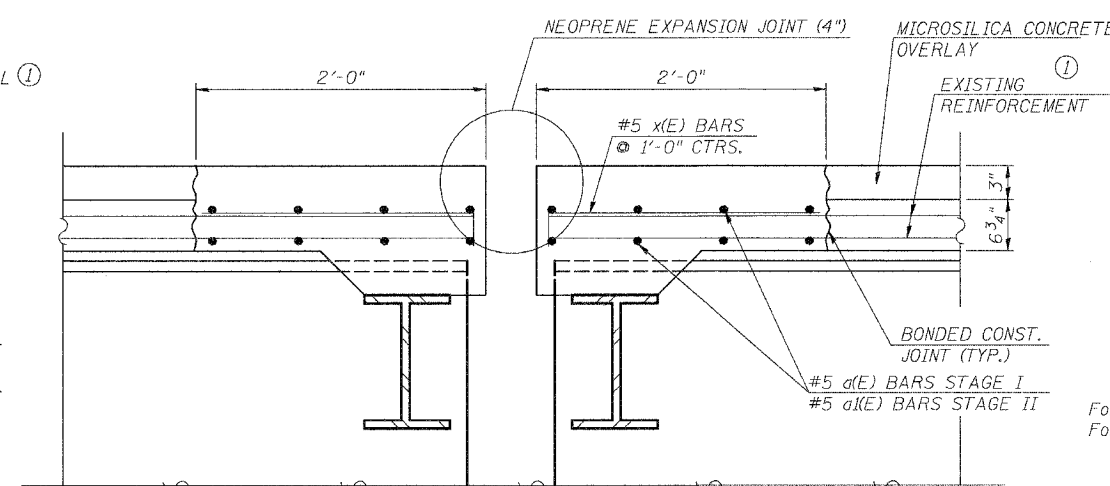
SAW END OF HANDRAIL TO
ALLOW A MINIMUM OF 2" CLEARANCE
FROM END POST. SALVAGE AND
REINSTALL RAIL POST AND END CAP.
(SHALL BE INCLUDED IN THE COST OF
CONCRETE REMOVAL)



TYPICAL CONCRETE REPLACEMENT
AT PIER 4 & 8



PARAPET DETAIL



PROPOSED PIER 4 & 8
SECTION A-A

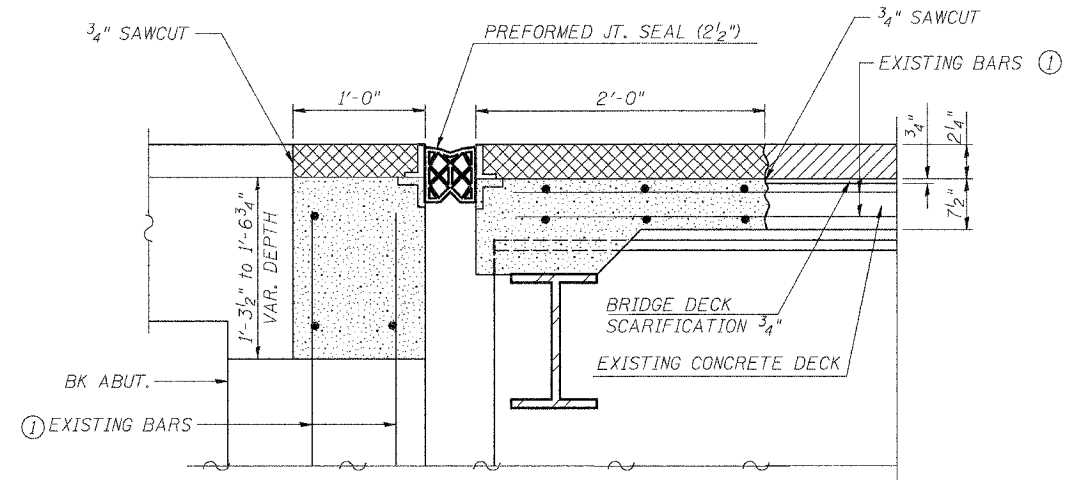
DESIGNED	B.W.P.
CHECKED	R.P.B.
DRAWN	D.J.S.
CHECKED	R.P.B.

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.	SHEET NO. 6 17 SHEETS
F.A.P. 328	5R,Y,RS-1	CLAY	242	68	
FED. ROAD DIST. NO. 7		ILLINOIS	FED. AID PROJECT-		
CONTRACT NO. T4078					

BAR LIST - SOUTH ABUTMENT						
BARS	NUMBER OF BARS		TOTAL	SIZE	LENGTH FOOT	SHAPE
	STAGE 1	STAGE 2				
a(E)	8		8	#5	16'-8"	—
a1(E)		8	8	#5	18'-8"	—
d(E)	3	3	6	#5	2'-11"	┌
d1(E)	3	3	6	#4	4'-2"	└
d2(E)	6	6	12	#5	2'-5"	└
h(E)	3		3	#6	16'-8"	—
h1(E)		3	3	#6	18'-8"	—
x(E)	17	19	36	#5	2'-3"	└

BILL OF MATERIAL - SOUTH ABUTMENT - SN 013-0010				
ITEM	UNIT	STAGE I	STAGE II	TOTAL
CONCRETE REMOVAL	CU YD	2.8	2.8	5.6
BRIDGE JOINT SYSTEM (EXPANSION), 1"	FOOT	16.50	18.50	35.0
CONCRETE SUPERSTRUCTURE	CU YD	2.6	2.8	5.4
REINFORCEMENT BARS (EPOXY COATED)	POUND	290	320	610
BAR SPLICERS	EACH	11	---	11

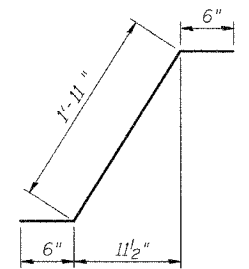


EXISTING SOUTH ABUTMENT
SECTION A-A

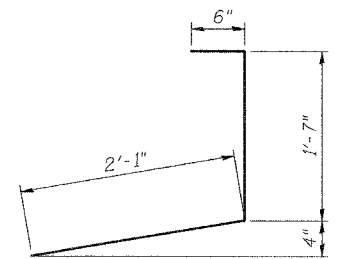
① EXISTING REINFORCEMENT BARS SHALL BE CLEANED, STRAIGHTENED AND INCORPORATED INTO THE NEW CONCRETE

- CONCRETE REMOVAL
- BITUMINOUS CONCRETE REMOVAL
- BITUMINOUS CONCRETE REMOVAL TO BE PAID FOR AS CONCRETE REMOVAL

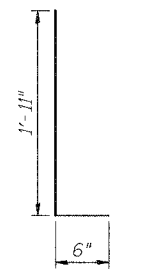
DURING CONCRETE REMOVAL IT WILL BE NECESSARY TO REMOVE A PORTION OF THE ALUMINUM RAIL AND SOME RAIL POSTS. THE ANCHORAGE DEVICES AND BOLTS FOR THE RAIL POSTS SHALL BE SALVAGED FOR REINSTALLATION. AFTER REINSTALLATION, THE BASE OF THE POSTS SHALL BE SEALED WITH A TWO COMPONENT NON-STAINING GRAY SEALING COMPOUND WITH POLYSULFIDE LIQUID POLYMERS-GUN GRADE WITH PRIMER. COST OF REMOVAL AND REINSTALLATION OF RAILING IS INCLUDED WITH CONCRETE REMOVAL.



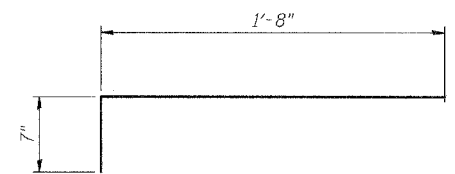
BAR d(E)



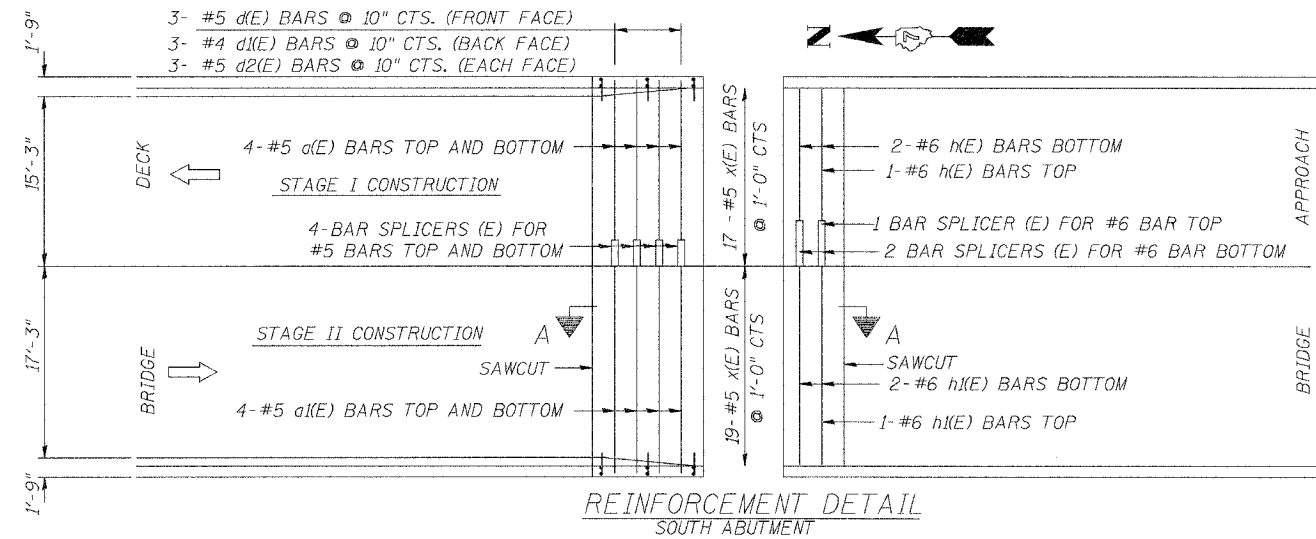
BAR d1(E)



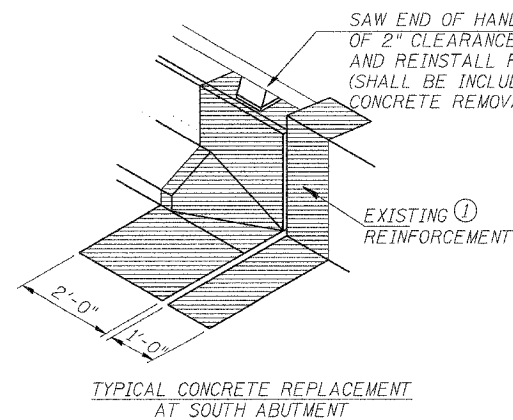
BAR d2(E)



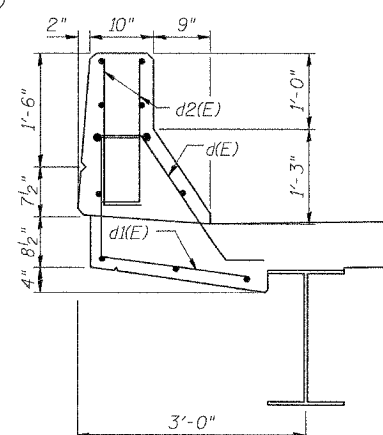
BAR x(E)



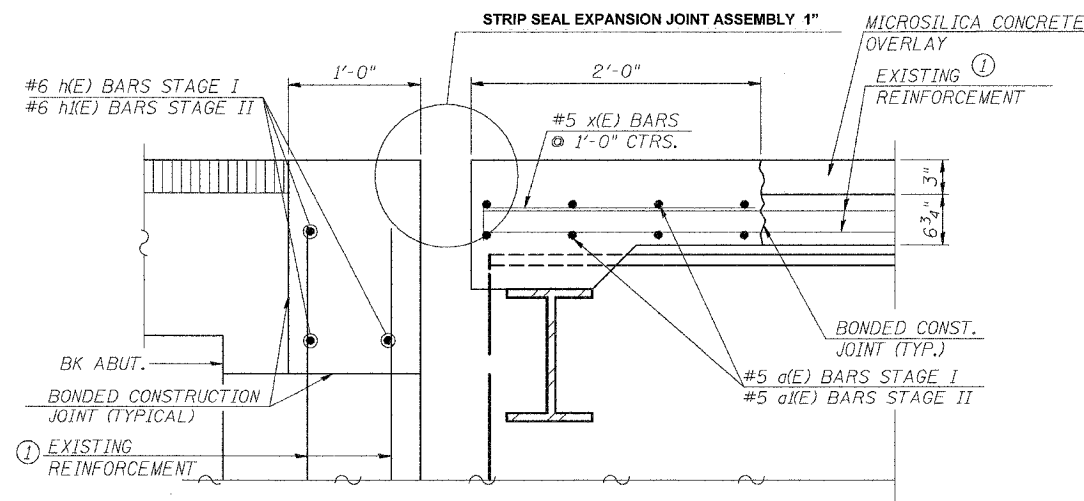
REINFORCEMENT DETAIL
SOUTH ABUTMENT



TYPICAL CONCRETE REPLACEMENT
AT SOUTH ABUTMENT



PARAPET DETAIL



PROPOSED SOUTH ABUTMENT
SECTION A-A

For Bar Splicer details see sheet 10 of 17
For Bridge Joint System details see sheets 11 and 12 of 17

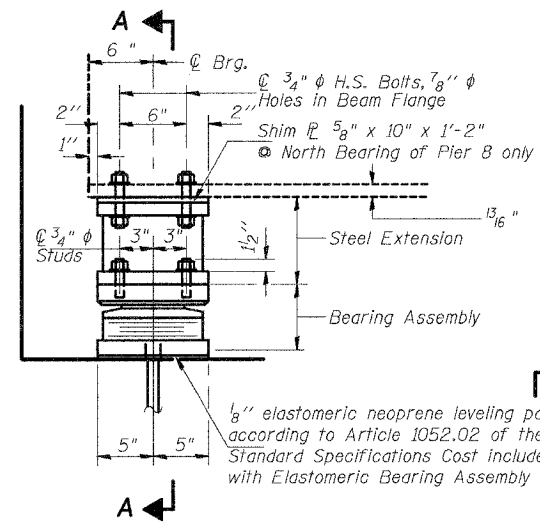
EXPANSION JOINT DETAILS
SOUTH ABUTMENT
FAP 328 - SECTION 5BR-2
OVER LITTLE WABASH RIVER
CLAY COUNTY
STATION 1281+15
STRUCTURE NO. 013-0010

DESIGNED	B.W.P.
CHECKED	R.P.B.
DRAWN	D.J.S.
CHECKED	R.P.B.

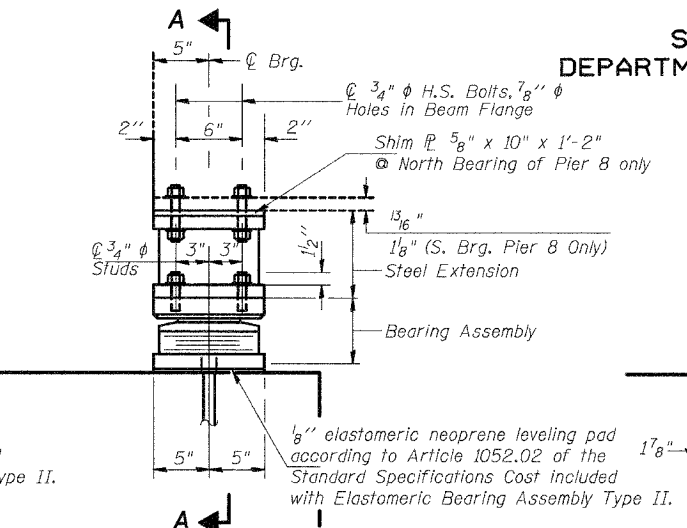
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

ROUTE NO.	SECTION	COUNTY	JOB SHEETS	SHEET NO.	SHEET NO. 7 17 SHEETS
F.A.P. 328	5BR,RS-1	CLAY	242	69	
CONTRACT NO. 74078					

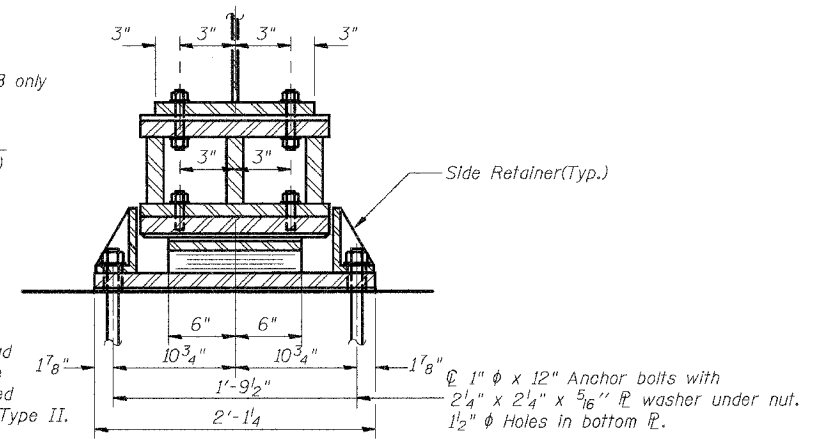
	N. Abut.	Pier 4	N. Brg. Pier 8	S. Brg. Pier 8
RP (k)	24.6	24.6	24.6	22.8
RSP (k)	---	---	---	9.3
R _L (k)	43.9	43.9	43.9	46.2
Imp. (k)	12.3	12.3	12.3	11.8
R (Total) (k)	80.8	80.8	80.8	90.1



ELEVATION AT N. ABUT.

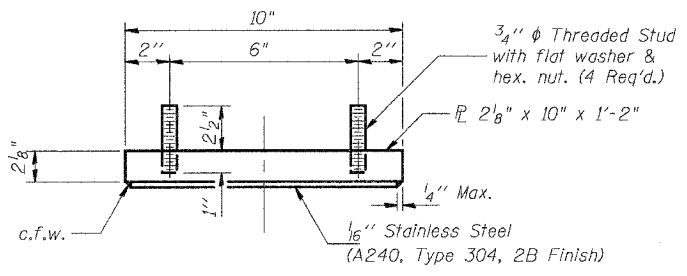


ELEVATION AT PIER 4 & 8

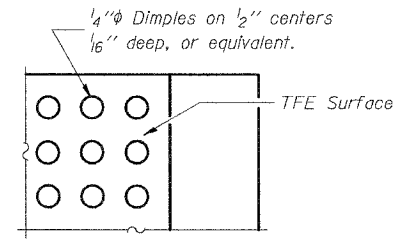


SECTION A-A

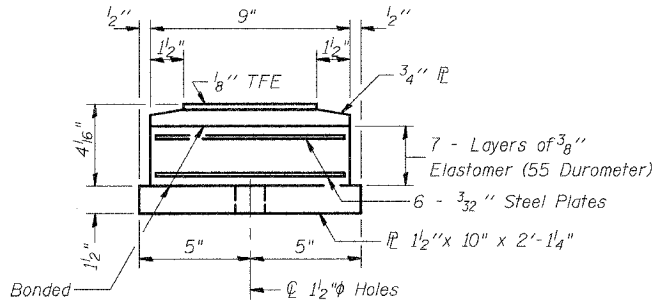
TYPE II ELASTOMERIC EXP. BRG.



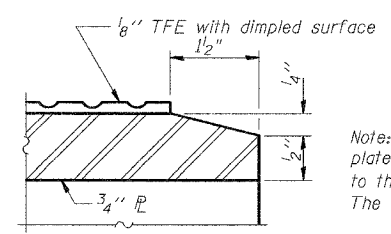
TOP BEARING ASSEMBLY



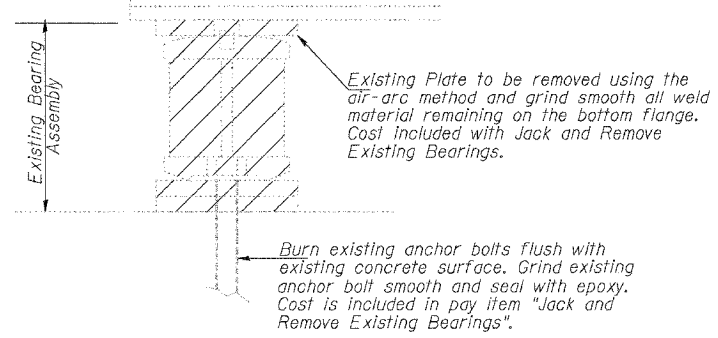
PLAN-TFE SURFACE



BOTTOM BEARING ASSEMBLY



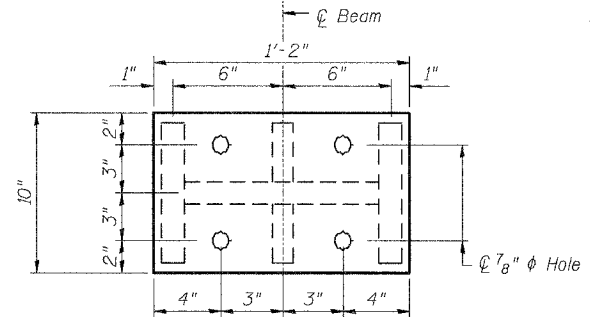
SECTION THRU TFE



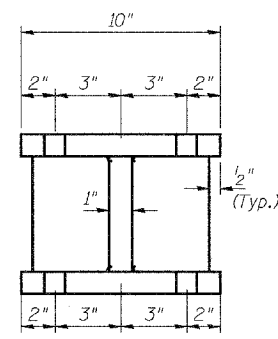
EXISTING BEARING REMOVAL DETAIL

Note: The 1/8" TFE sheet shall be bonded directly to the top steel plate with a two-component, medium viscosity epoxy resin, conforming to the requirements of the Federal Specification MMM-A-134, Type I. The bond agent shall be applied on the full area of the contact surfaces.

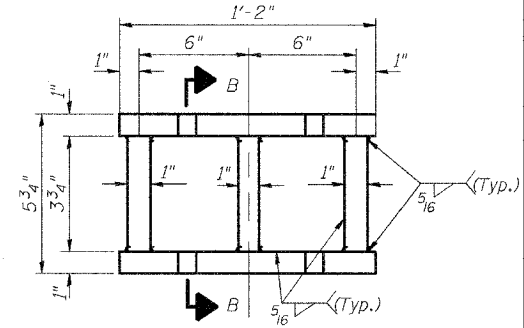
Bonding of 1/8" TFE sheet during vulcanizing process will be permitted provided the process and method of adjusting assembly height is approved by the Engineer.



PLAN STEEL EXTENSION



SECTION B-B



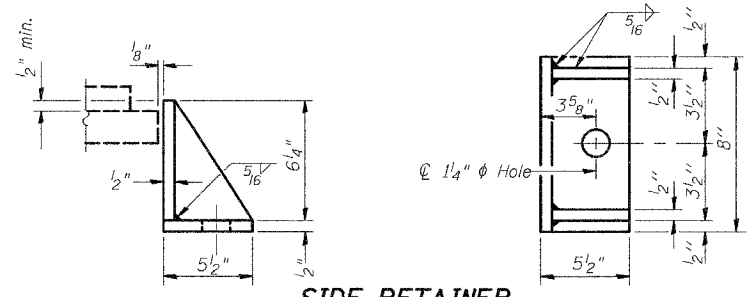
ELEVATION STEEL EXTENSION

BILL OF MATERIAL

Item	Unit	N. Abut.	Pier 4	Pier 8 N.	Pier 8 S.	Total
Elastomeric Bearing Assembly Type II	Each	5	10	5	5	25
Furnish & Erect Structural Steel	Lbs.	820	1640	950	820	4230
Jack & Remove Exist. Bearing	Each	5	10	5	5	25

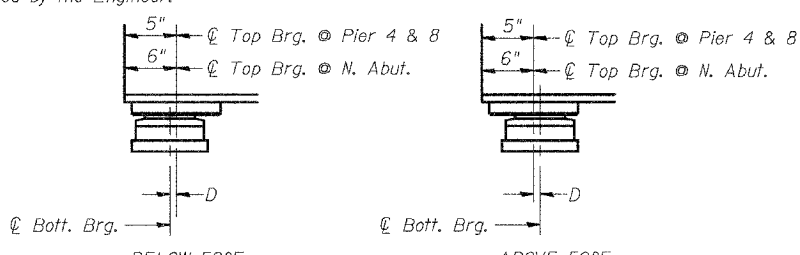
ELASTOMERIC BEARING, TYPE II
NORTH ABUTMENT

PIERS 4 & 8
FAP 328 - SECTION 5BR-2
OVER LITTLE WABASH RIVER
CLAY COUNTY
STATION 1281+15
STRUCTURE NO. 013-0010



SIDE RETAINER

Equivalent rolled angle with stiffeners will be allowed in lieu of welded plates. Weight included with Structural Steel.



SETTING ANCHOR BOLTS AT EXP. BRG.

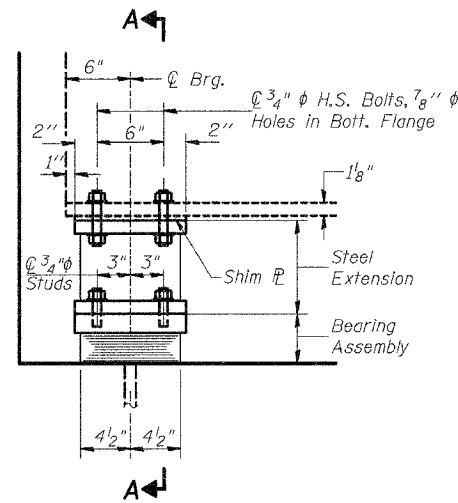
D=1/8" per each 100' of expansion for every 15° temp. change from the normal temp. of 50°F.

DESIGNED	B.W.P.
CHECKED	R.P.B.
DRAWN	D.J.S.
CHECKED	R.P.B.

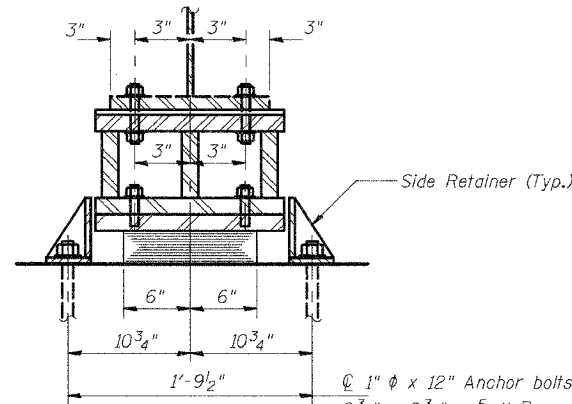
I-2-E2 4-30-99

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

ROUTE NO.	SECTION	COUNTY	POSTMILES	SHEET	SHEET NO. 8
F.A.P. 328	5BR, Y, RS-1	CLAY	242	70	17 SHEETS
FED. ROAD DIST. NO. 7		ILLINOIS	FED. AID PROJECT-		
CONTRACT NO. 74078					



ELEVATION AT S. ABUT.



SECTION A-A

1" φ x 12" Anchor bolts with
2 3/4" x 2 3/4" x 5/16" washer under nut

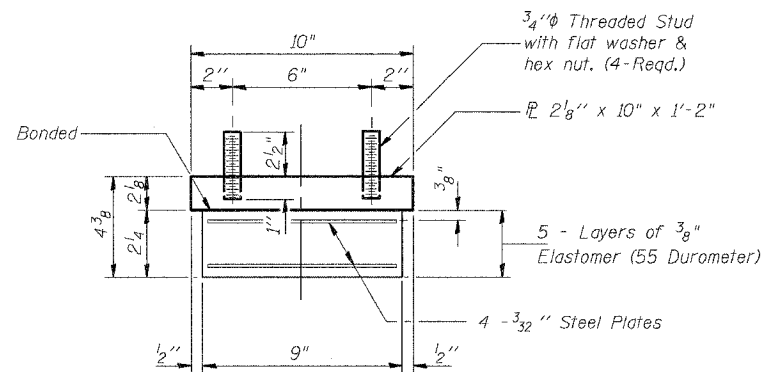
Notes:

Diaphragm removal and reinstallation may be required to facilitate drilling holes. Cost shall be included in the cost of "Furnishing and Erecting Structural Steel".

New steel extensions, side retainers, shim plates, connection bolts, and anchor bolts are included in "Furnishing and Erecting Structural Steel".

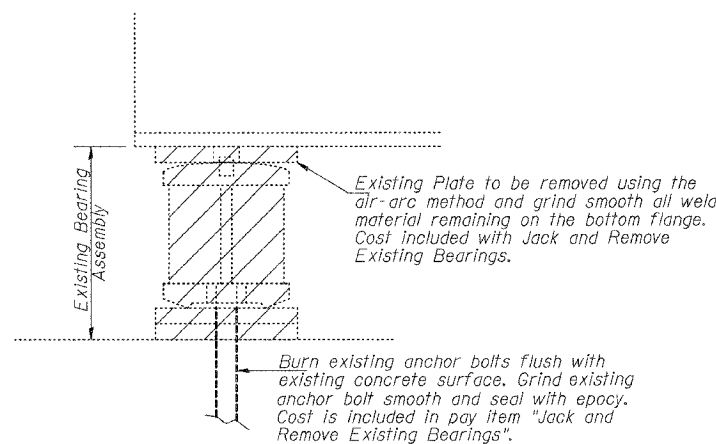
See Sheet 9 of 17 for Anchor Bolt installation
Prior to ordering any material, the Contractor shall verify in the field all bearing height and shim thickness dimensions.
Min. jack capacity = 46 tons

TYPE I ELASTOMERIC EXP. BRG.

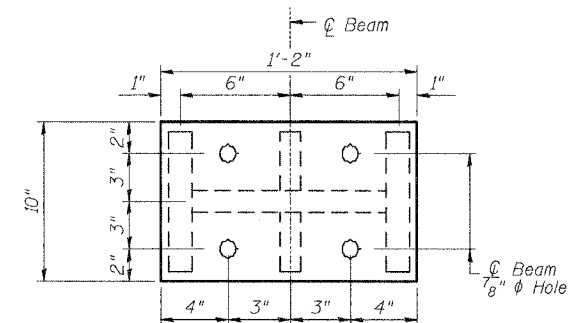


BEARING ASSEMBLY

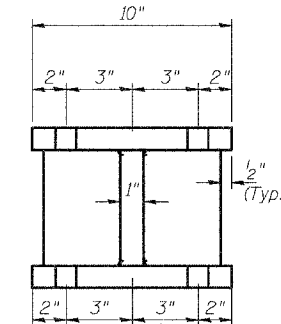
Note: Shim plates shall not be placed under Bearing Assembly.



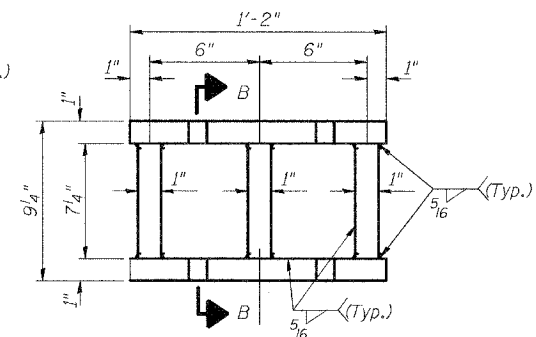
EXISTING BEARING REMOVAL DETAIL



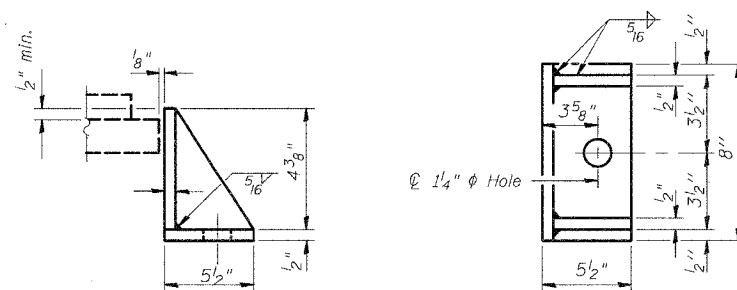
PLAN STEEL EXTENSION



SECTION B-B



ELEVATION STEEL EXTENSION



SIDE RETAINER

Equivalent rolled angle with stiffeners will be allowed in lieu of welded plates. Weight included with Structural Steel.

BILL OF MATERIAL

Item	Unit	Total
Elastomeric Bearing Assembly Type I	Each	5
Furnish & Erect Structural Steel	Lbs.	970
Jack & Remove Exist. Bearing	Each	5

ELASTOMERIC BEARING, TYPE I
SOUTH ABUTMENT

FAP 328 - SECTION 5BR-2
OVER LITTLE WABASH RIVER
CLAY COUNTY
STATION 1281+15
STRUCTURE NO. 013-0010

DESIGNED	B.W.P.
CHECKED	R.P.B.
DRAWN	D.J.S.
CHECKED	R.P.B.

I-2-E1 4-30-99

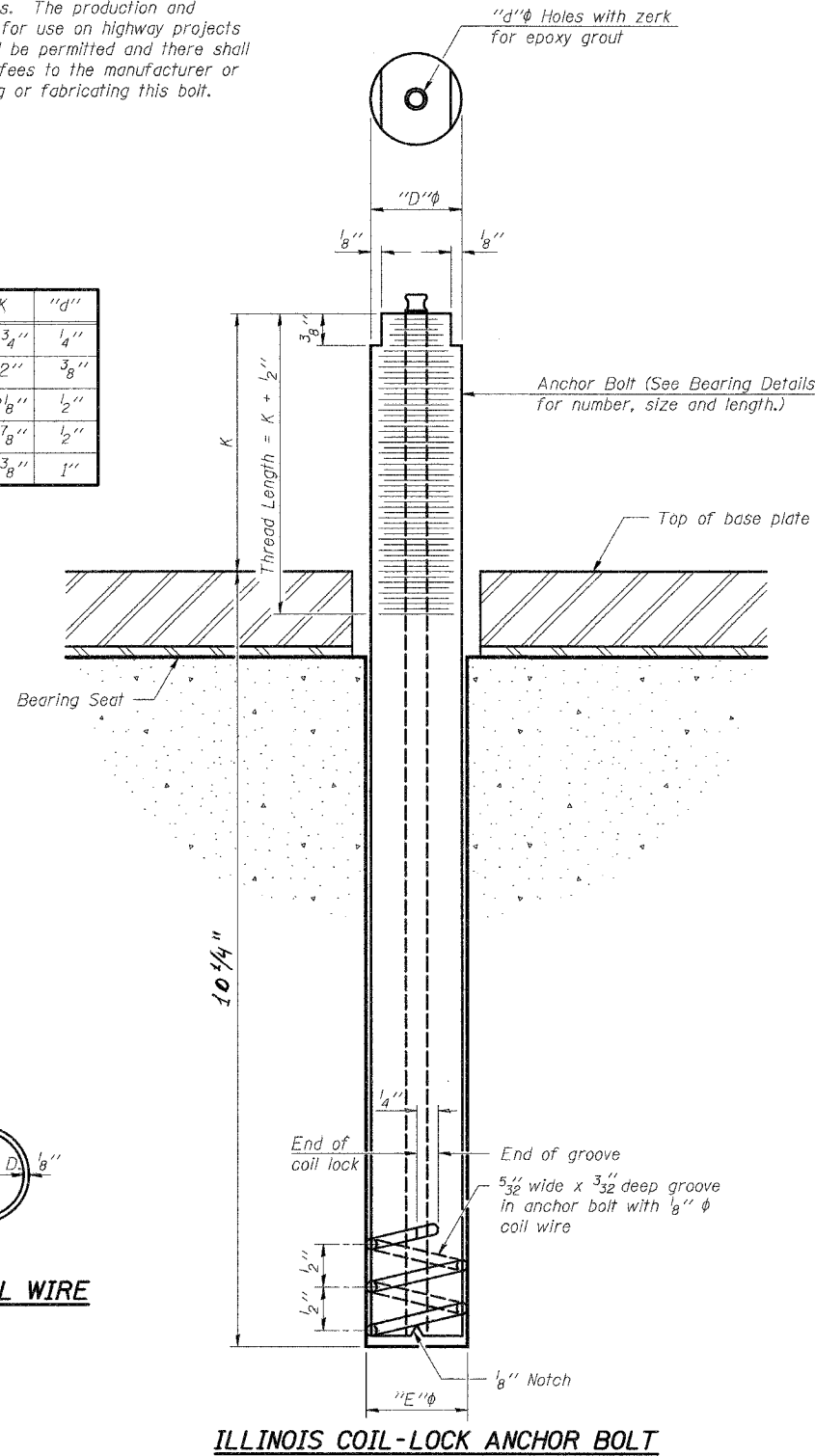
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.	SHEET NO. 9 17 SHEETS
F.A.P. 328	5R, YRS-1	CLAY	242	71	
FED. ROAD DIST. NO. 7	ILLINOIS	FED. AID PROJECT-			

CONTRACT NO. T4078

The Illinois Coil-Lock Anchor Bolt is a proprietary item which is the property of the Illinois Department of Transportation. Use, reproduction or disclosure without express written permission is prohibited and protected under Federal copyright laws. The production and the fabrication of this bolt for use on highway projects in the State of Illinois shall be permitted and there shall be no incurred charges or fees to the manufacturer or the fabricator for producing or fabricating this bolt.

D	E	H	K	"d"
1"	1 1/8"	1 3/16"	1 3/4"	1/4"
1 1/4"	1 3/8"	1 1/2"	2"	3/8"
1 1/2"	1 5/8"	1 5/16"	2 1/8"	1/2"
2"	2 1/8"	1 3/4"	2 7/8"	1/2"
2 1/2"	2 5/8"	2 5/16"	3 3/8"	1"



MATERIALS FOR ILLINOIS COIL-LOCK ANCHOR BOLT

The anchor bolt shall be fabricated from cold drawn or hot finished seamless carbon steel mechanical tubing conforming to ASTM A 519, Grade 1026, CW and supplied with hexagonal nuts and cut washers.
The coil wire shall be made of any suitable soft steel wire.
The finished anchor bolt shall be cleaned of rust and other foreign materials and wrapped or packaged to prevent contamination until they are installed.
The epoxy grout shall be a two-component, epoxy resin bonding system conforming to ASTM C 881, Type I, Grade 1 and of a Class suitable for the temperature at installation.

INSTALLATION PROCEDURE for the ILLINOIS COIL-LOCK ANCHOR BOLT

1. With the coil wire in place, the bolt shall be inserted into the hole and turned clockwise to a snug fit in the hole. Nut and washer shall be placed on the bolt. The nut shall be tensioned until the steel base plates are held securely to the concrete bearing seat.
2. Epoxy grout shall be pumped through the zerk fitting with a pressure gun. Pumping shall continue until the epoxy overflows the hole around the bolt shank. After pumping is discontinued, excess epoxy shall be immediately wiped off.

ALTERNATE ANCHOR BOLTS

The Contractor may use, at his option, the capsule or the adhesive cartridge type anchor rods that have been previously tested and given a prior approval by the Department. The Contractor shall install these anchor rods in pre-drilled holes according to the manufacturer's recommendations and procedures.
The capsule or the adhesive cartridge type anchor rods shall be a two part system composed of:
1. A threaded rod stud with nut and washer of the type specified.
2. A sealed glass capsule or a sealed glass adhesive cartridge containing premeasured amounts of the adhesive chemical.

Location	Type
ABUTMENTS	A-30F
PIERS	A-30F

ASTM F 1554 Grade 105, ASTM A 449 and AASHTO M 314 Grade 105 anchor bolts may be substituted for the anchor bolts shown above.

GENERAL NOTES

Holes in the masonry for anchor bolts shall be drilled through the base plates to the diameter and depth shown or according to the manufacturer's recommendation after beams or girders have been erected and adjusted.
Prior to setting the bolts, the holes shall be dry and all dust and loose particles shall be removed by the use of compressed air or vacuuming.
The anchor bolts, furnished and installed and including the epoxy grout or capsules shall not be paid for separately but shall be included in the unit bid price for Furnishing and Erecting Structural Steel.

**ANCHOR BOLT DETAILS
FOR BEARINGS
FAP 328 - SECTION 5BR-2
OVER LITTLE WABASH RIVER
CLAY COUNTY
STATION 1281+15
STRUCTURE NO. 013-0010**

DESIGNED - B.W.P.	20
CHECKED - R.P.B.	EXAMINED
DRAWN - D.J.S.	ENGINEER OF BRIDGE DESIGN
CHECKED - R.P.B.	PASSED
	ENGINEER OF BRIDGES AND STRUCTURES

ABB-1 4-30-99

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.	SHEET NO. 10 17 SHEETS
F.A.P. 328	BR, SRS-1	CLAY	242	72	
FED. ROAD DIST. NO. 7	ILLINOIS	FED. AID PROJECT	CONTRACT NO. 74078		

NOTES

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

- ① Minimum Capacity = $1.25 \times f_y \times A_t$
(Tension in kips)
- ② Minimum *Pull-out Strength = $1.25 \times f_{s,allow} \times A_t$
(Tension in kips)

Where f_y = Yield strength of lapped reinforcement bars in ksi.
 $f_{s,allow}$ = Allowable tensile stress in lapped reinforcement bars in ksi (Service Load)
 A_t = Tensile stress area of lapped reinforcement bars.
* = 28 day concrete

BAR SPLICER ASSEMBLIES			
Bar Size to be Spliced	Splicer Rod or Dowel Bar Length	Strength Requirements	
		Min. Capacity kips - tension	Min. Pull-Out Strength kips - tension
#4	1'-8"	14.7	5.9
#5	2'-0"	23.0	9.2
#6	2'-7"	33.1	13.3
#7	3'-5"	45.1	18.0
#8	4'-6"	58.9	23.6
#9	5'-9"	75.0	30.0
#10	7'-3"	95.0	38.0
#11	9'-0"	117.4	46.8

Bar splicer assemblies shall be according to Section 508 of the Standard Specifications, except as noted. The furnishing and installation of bar splicer assemblies will be measured and paid for at the contract unit price each for "BAR SPLICERS."

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

ROLLED THREAD DOWEL BAR



** ONE PIECE

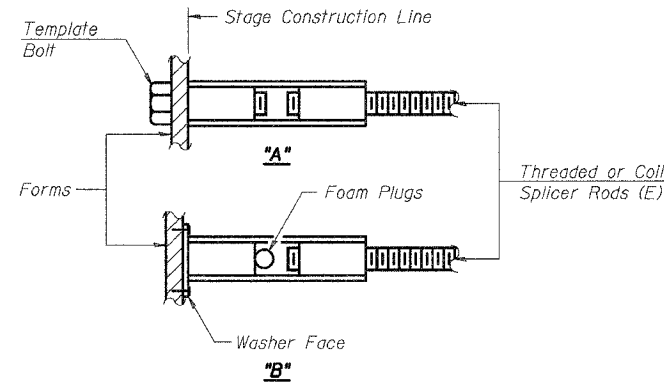
Wire Connector



WELDED SECTIONS

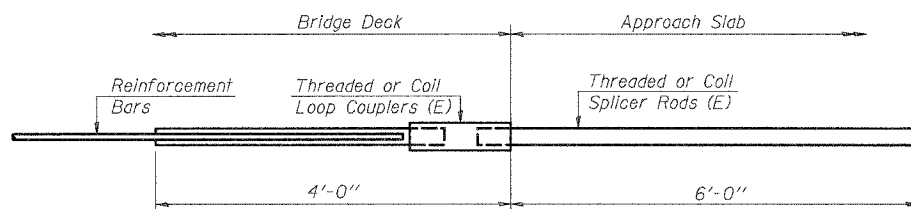
BAR SPLICER ASSEMBLY ALTERNATIVES

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



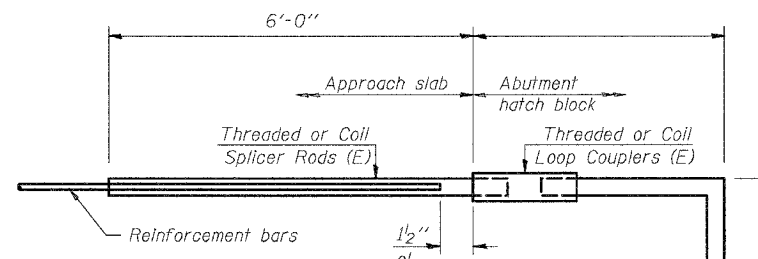
INSTALLATION AND SETTING METHODS

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



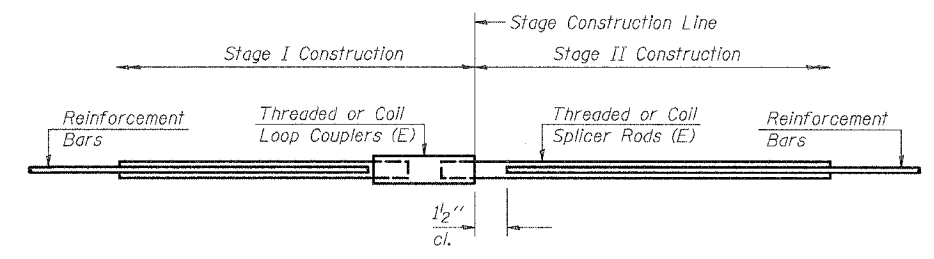
FOR INTEGRAL OR SEMI-INTEGRAL ABUTMENTS

Bar Splicer for #5 bar
Min. Capacity = 23.0 kips - tension
Min. Pull-out Strength = 9.2 kips - tension
No. Required =



FOR PILE BENT ABUTMENTS

Bar Splicer for #5 bar
Min. Capacity = 23.0 kips - tension
Min. Pull-out Strength = 9.2 kips - tension
No. Required =



STANDARD

Bar Size	No. Assemblies Required	Location
#6	6	Abutments
#5	48	Deck

BAR SPLICER ASSEMBLY DETAILS
FAP 328 - SECTION 5BR-2
OVER LITTLE WABASH RIVER
CLAY COUNTY
STATION 1281+15
STRUCTURE NO. 013-0010

DESIGNED - B.W.P.	20
CHECKED - R.P.B.	EXAMINED
DRAWN - B.W.P.	ENGINEER OF BRIDGE DESIGN
CHECKED - R.P.B.	PASSED
	ENGINEER OF BRIDGES AND STRUCTURES

BSD-1 9-01-03

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

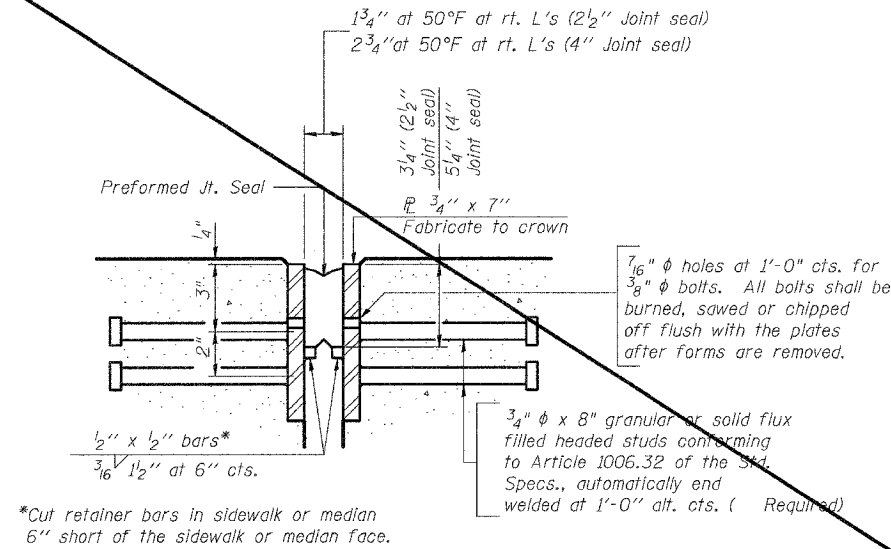
ROUTE NO.	SECTION	COUNTY	POST MILES	SHEET NO.	SHEET NO. OF SHEETS
F.A.P. 328	BR.V.RS-1	CLAY	242	73	17 SHEETS
FED. ROAD DIST. NO. 7		ILLINOIS	FED. AID PROJECT-		

CONTRACT NO. 74078

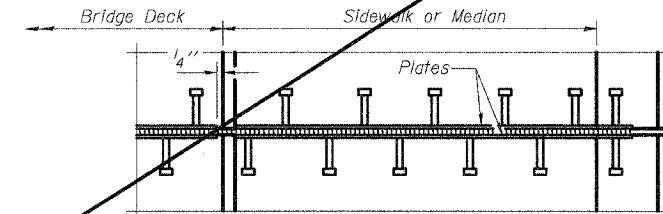
Bridge Joint System (Expansion)		
Design Movement	Required Preformed Joint Seal Size	Required Strip Seal Rated movement
1"	2 1/2"	1"
1 5/8"	4"	2"

GENERAL NOTES

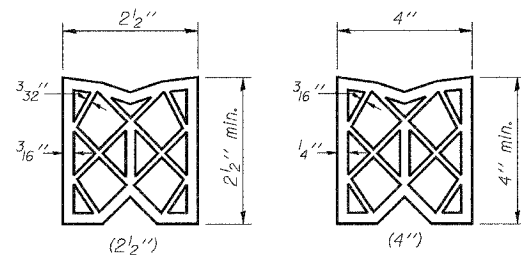
Furnish steel plates in segments of 20 feet maximum length. Maximum space between installed segments shall be 3/16". Seal space with silicone sealant suitable for structural steel.



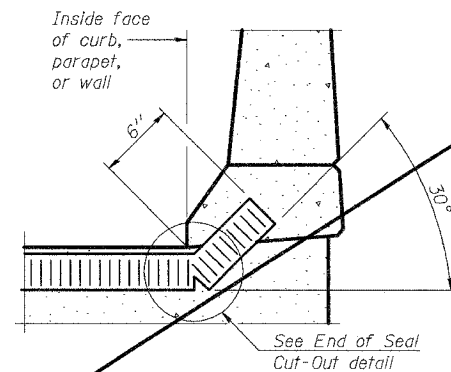
SECTION THRU EXPANSION JOINT
(2 1/2" and 4" joint seals)



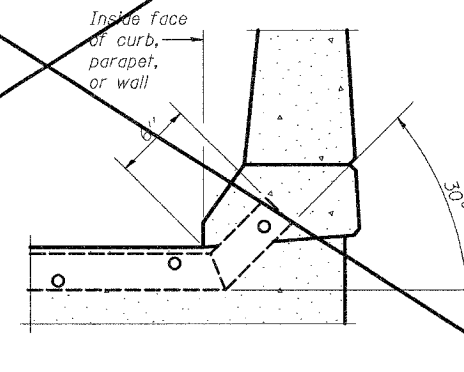
PLAN AT SIDEWALK OR MEDIAN



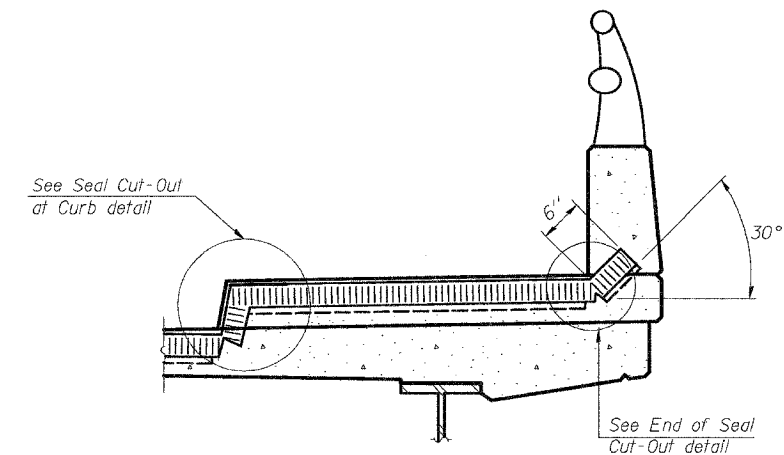
PREFORMED JOINT SEAL



AT CURB, PARAPET, OR WALL
(Showing seal)



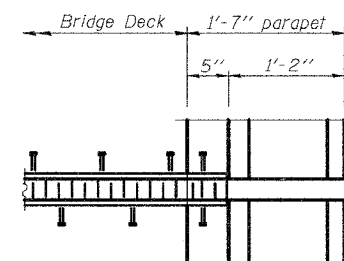
AT CURB, PARAPET, OR WALL
(Showing plate)



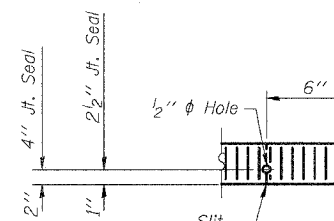
AT SIDEWALK OR MEDIAN*
(Showing plate and seal)

* Shorter plates with a single row of studs at 12" centers may be necessary on medians which are shallower than 9". See manufacturer's recommendation.

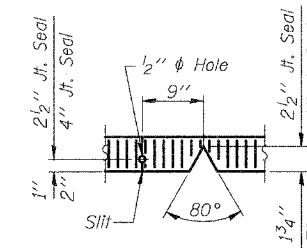
TYPICAL END TREATMENTS



PLAN AT PARAPET



END OF SEAL CUT-OUT



SEAL CUT-OUT AT CURB

DESIGNED - B.W.P.	20
CHECKED - R.P.B.	EXAMINED
DRAWN - D.J.S.	ENGINEER OF BRIDGE DESIGN
CHECKED - R.P.B.	PASSED
EJ-BJS 9-01-03	ENGINEER OF BRIDGES AND STRUCTURES

(Sheet 1 of 2)
BRIDGE JOINT SYSTEM - EXPANSION
(PREFORMED JOINT SEAL)
FAP 328 - SECTION 5BR-2
OVER LITTLE WABASH RIVER
CLAY COUNTY
STATION 1281+15
STRUCTURE NO. 013-0010

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET	SHEET NO. 12
F.A.P. 328	5BR, YRS-1	CLAY	242	74	17 SHEETS
FED. ROAD DIST. NO. 7		ILLINOIS	FED. AID PROJECT-		
CONTRACT NO. 74078					

GENERAL NOTES

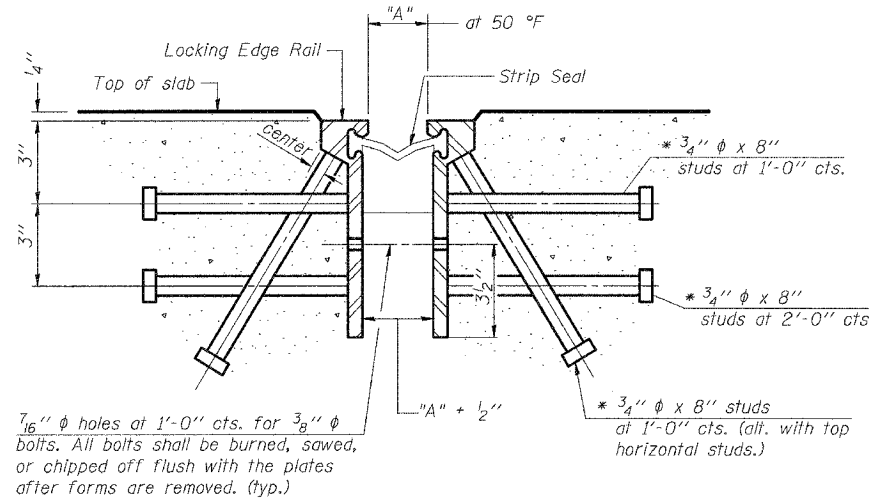
The strip seal shall be made continuous and shall have a minimum thickness of 1/4". The configuration of the strip seal shall match the configuration of the Locking Edge Rails.

The height and thickness of the Locking Edge Rails shown are minimum dimensions. The actual configuration of the Locking Edge Rails and matching strip seal may vary from manufacturer to manufacturer. Flanged edge rails will not be allowed.

Locking Edge Rails may be spliced at slope discontinuities and stage construction joints.

The manufacturer's recommended installation methods shall be followed.

The joint opening and deck dimensions detailed on the superstructure are based on a preformed joint seal. If the contractor elects to use the alternate strip seal joint, the opening and deck dimensions shall be modified according to the dimensions detailed on this sheet. Required modifications shall be made at no additional cost to the State.

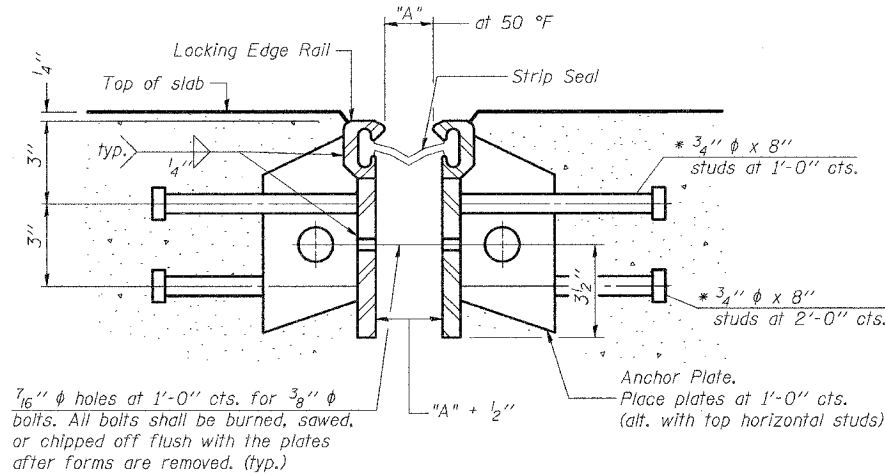


SECTION THRU ROLLED RAIL EXP. JOINT

(Studs Required)

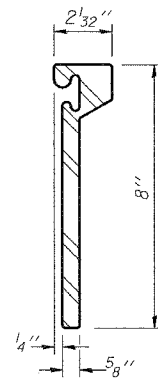
Required Strip Seal rated movement	"A"
1"	1 1/8"
2"	1 3/4"

* Granular or solid flux filled headed studs conforming to Article 1006.32 of the Std. Specs., automatically end welded.

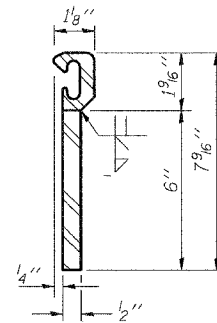


SECTION THRU WELDED RAIL EXP. JOINT

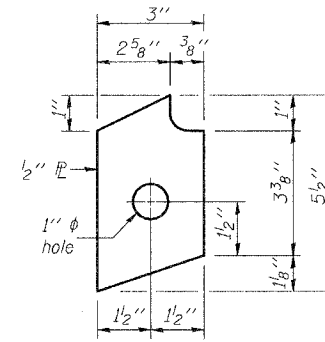
(Studs Required)
(Anchor Plates Required)



ROLLED (EXTRUDED) RAIL

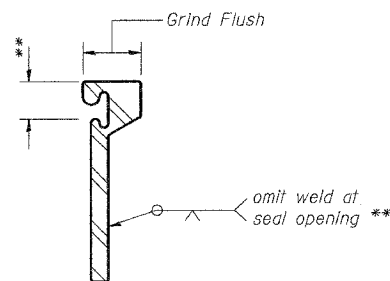


WELDED RAIL



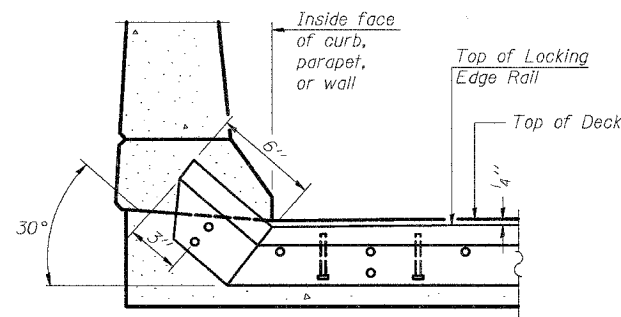
ANCHOR PLATE
(for welded rail)

LOCKING EDGE RAILS

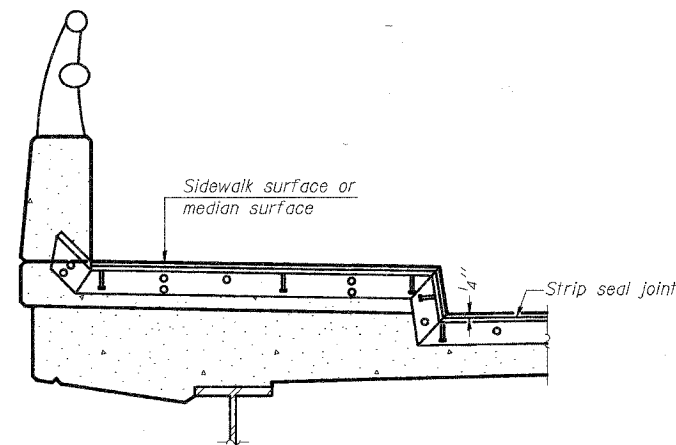


LOCKING EDGE RAIL SPLICE

The inside of the locking edge rail groove shall be free of weld residue.



AT CURB, PARAPET, OR WALL



AT SIDEWALK OR MEDIAN*

TYPICAL END TREATMENTS

* Shorter plates with a single row of studs at 12" centers may be necessary on medians which are shallower than 9". See manufacturer's recommendation.

BILL OF MATERIAL

Item	Unit	Total
Strip Seal Expansion Joint Assembly	Foot	70

(Sheet 2 of 2)

BRIDGE JOINT SYSTEM - EXPANSION
(ALTERNATE-STRIP SEAL)
FAP 328 - SECTION 5BR-2
OVER LITTLE WABASH RIVER
CLAY COUNTY
STATION 1281+15
STRUCTURE NO. 013-0010

DESIGNED - B.W.P.	20
CHECKED - R.P.B.	EXAMINED
DRAWN - B.W.P.	ENGINEER OF BRIDGE DESIGN
CHECKED - R.P.B.	PASSED
EJ-BJS 9-01-03	ENGINEER OF BRIDGES AND STRUCTURES

ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.	SHEET NO. 13 17 SHEETS
F.A.P. 328	5BR, YRS-1	CLAY	242	75	
FED. ROAD DIST. NO. 7	ILLINOIS	FED. AID PROJECT			

CONTRACT NO. T4078

Joint Size	"C" at 50°F	"D" at 50°F
2"	2"	1 1/2" Min.
2 1/2"	2 1/2"	1 3/4" Min.
4"	3"	2 1/2" Min.

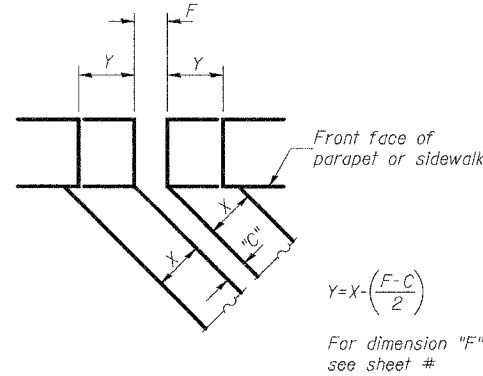
INSTALLATION NOTES

- Install continuous seal in roadway, parapet, curb, and sidewalk.
- Install anchor blocks as indicated.

NOTE A: Maximum spacing of anchor bolts shall be 12" centers.

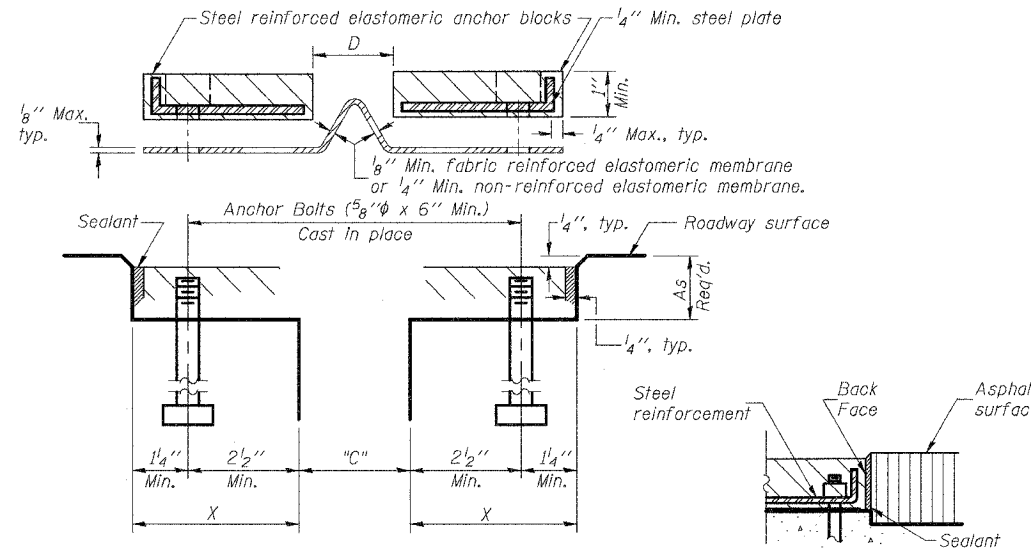
SKREW LIMITATIONS

The details of the anchor blocks and the elastomeric membrane in the parapet, as shown, are for up to 50° skews. For skews greater than 50°, the anchor blocks and the elastomeric membrane, installed according to dimension "D", might require modifications to insure a minimum clearance of 1/2" from centerline of anchor studs to edge of parapet opening. The anchor blocks and the elastomeric membrane shall also be installed to the top of the parapet with the anchor studs spaced at ±12" cts.



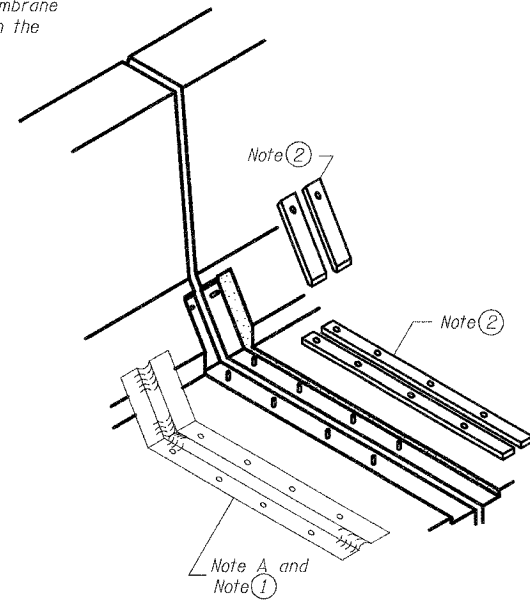
FORMING BLOCKOUT SKETCH

STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION

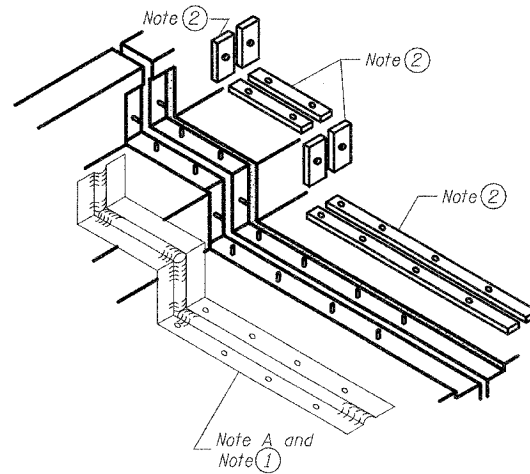


CROSS SECTION

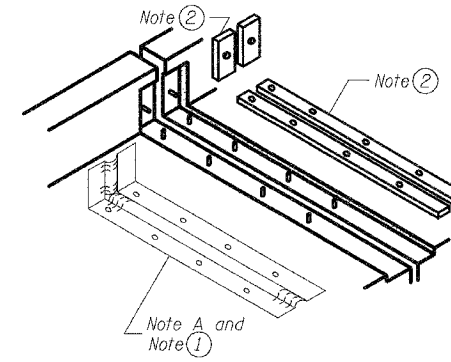
ANCHOR BLOCK WITH ASPHALT SURFACE



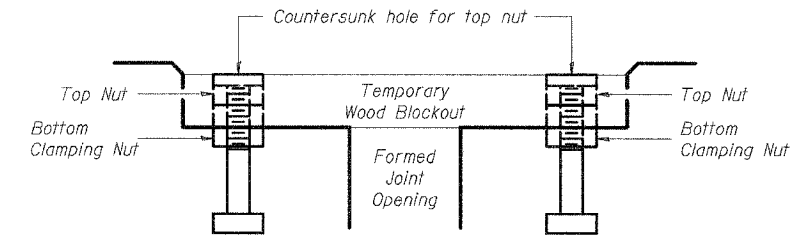
AT PARAPET



AT SIDEWALK OR MEDIAN

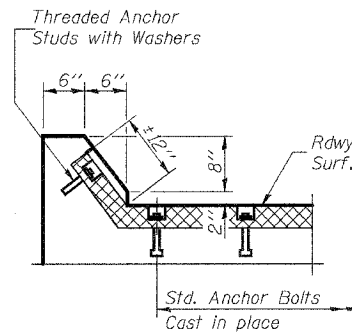


AT WALL

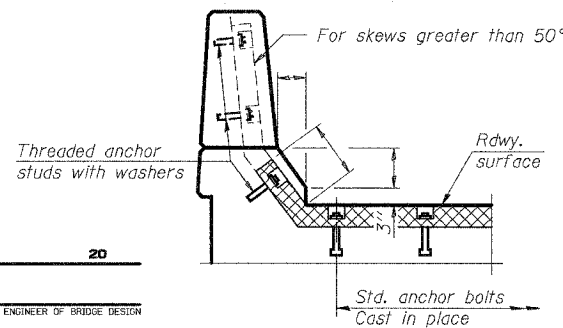


Note: Stud needs to be threaded lower to allow for use of clamping nut.

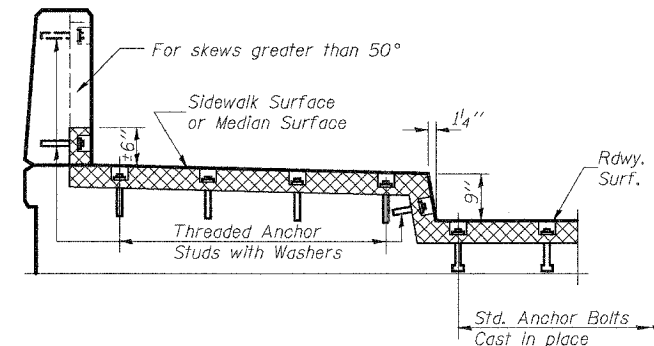
Anchor studs should be stainless
RECOMMENDED BLOCKOUT DETAIL



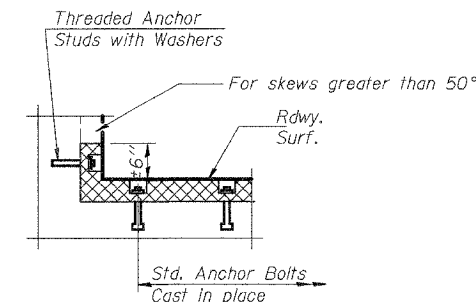
AT CURB



AT PARAPET



AT SIDEWALK OR MEDIAN TYPICAL END TREATMENTS



AT WALL

DESIGNED	- B.W.P.
CHECKED	- R.P.B.
DRAWN	- B.W.P.
CHECKED	- R.P.B.
EJ-CS	9-01-03

EXAMINED	20	ENGINEER OF BRIDGE DESIGN
PASSED		ENGINEER OF BRIDGES AND STRUCTURES

CONTINUOUS SEAL TYPE NEOPRENE EXPANSION JOINTS
For 2", 2 1/2" and 4" Movement

FAP 328 - SECTION 5BR-2 OVER LITTLE WABASH RIVER CLAY COUNTY STATION 1281+15 STRUCTURE NO. 013-0010

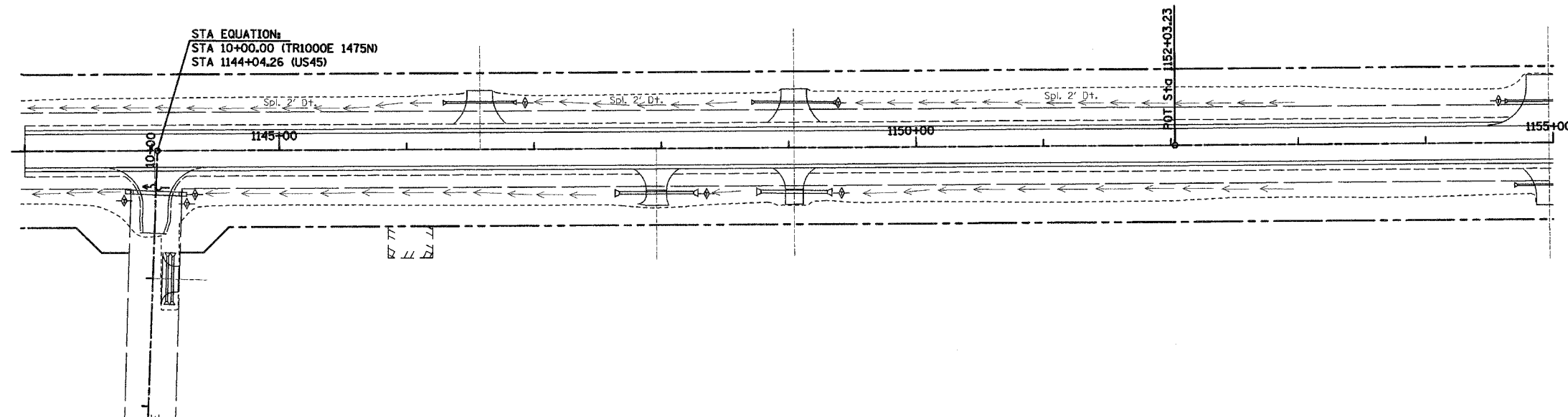
F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
328	5R, Y, RS-1	CLAY	242	80
STA.		TO STA.		
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		
CONTRACT NO. 74078				



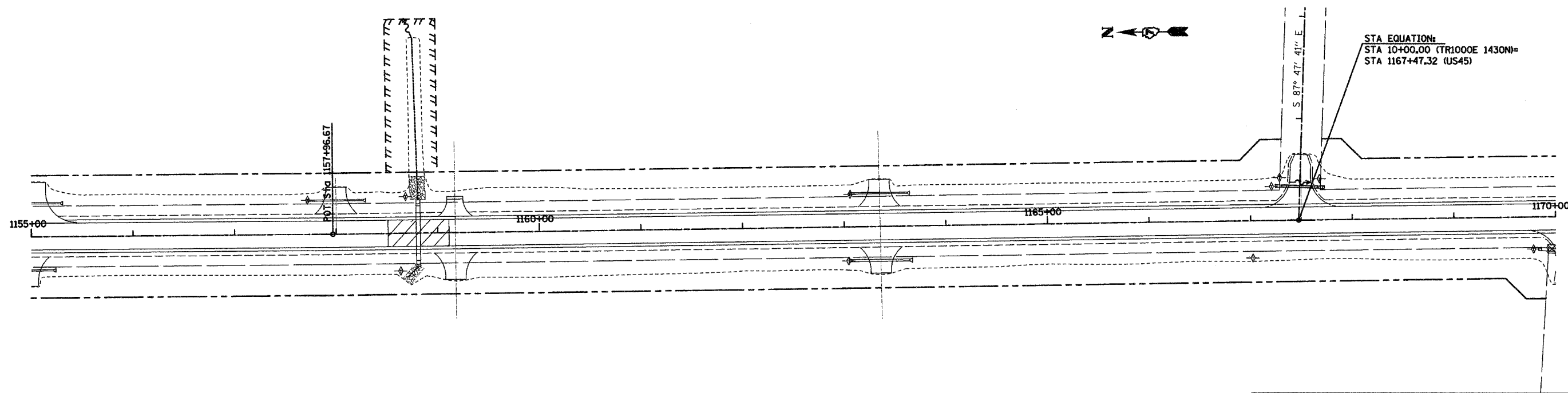
LEGEND

ITEM	SYMBOL
TEMPORARY DITCH CHECKS	
TEMPORARY SILT FENCE	
PERIMETER EROSION BARRIER SILT FENCE	
EROSION CONTROL BLANKET	
PRESERVE EXISTING TREES, WOODLANDS, AND UNDERSTORY (OUTSIDE CONSTRUCTION LIMITS)	
ITEMS PLACED AT BEGINNING OF CONSTRUCTION (REQUIREMENT)	
ITEMS PLACED AS DIRECTED BY ENGINEER WHEN REQUIRED BY SITUATION	
RIPRAP	

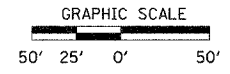
NOTE:
ALL ITEMS SHALL BE CONSTRUCTED AS SHOWN ON STANDARD 280001 AND AS DIRECTED BY THE ENGINEER. MAINTENANCE AND CLEANING OF THE EROSION CONTROL ITEMS SHALL BE INCLUDED IN THE RESPECTIVE EROSION CONTROL PAY ITEMS.



FAP RTE 328 (US45)



FAP RTE 328 (US45)



REVISIONS	
NAME	DATE

ILLINOIS DEPARTMENT OF TRANSPORTATION

EROSION CONTROL PLAN

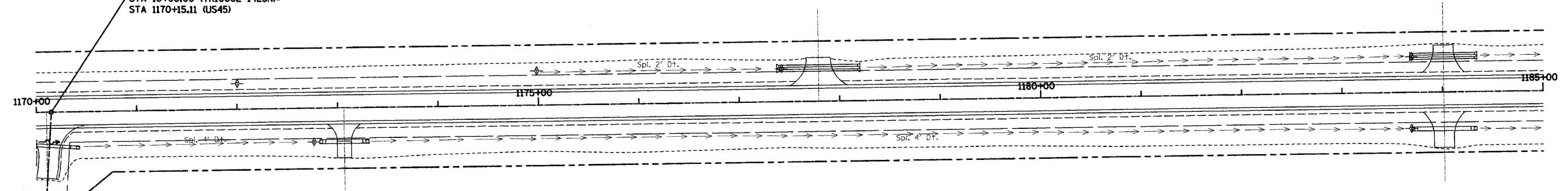
SCALE: VERT. DRAWN BY: LJ
 HORIZ. CHECKED BY: MAR
 DATE: 10-21-05

C:\Users\jpratt\Documents\Projects\74078\74078-5R\74078-5R-1.dwg

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
328	5R, Y, RS-1	CLAY	242	81.
STA.		TO STA.		
FED. ROAD DIST. NO.		ILLINOIS	FED. AID PROJECT	
CONTRACT NO. 74078				



STA EQUATION:
 STA 10+00.00 (TR1000E 1425N)=
 STA 1170+15.11 (US45)

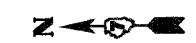


LEGEND

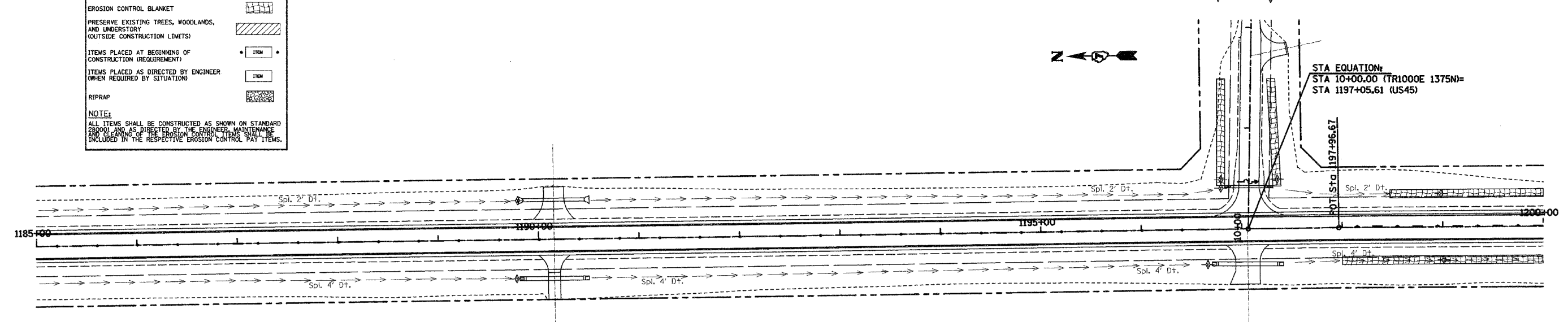
ITEM	SYMBOL
TEMPORARY DITCH CHECKS	
TEMPORARY DITCH CHECKS	
TEMPORARY SILT FENCE	
PERIMETER EROSION BARRIER SILT FENCE	
EROSION CONTROL BLANKET	
PRESERVE EXISTING TREES, WOODLANDS, AND UNDERSTORY (OUTSIDE CONSTRUCTION LIMITS)	
ITEMS PLACED AT BEGINNING OF CONSTRUCTION (REQUIREMENT)	
ITEMS PLACED AS DIRECTED BY ENGINEER (WHEN REQUIRED BY SITUATION)	
RIPRAP	

NOTE:
 ALL ITEMS SHALL BE CONSTRUCTED AS SHOWN ON STANDARD 280001 AND AS DIRECTED BY THE ENGINEER. MAINTENANCE AND CLEANING OF THE EROSION CONTROL ITEMS SHALL BE INCLUDED IN THE RESPECTIVE EROSION CONTROL PAY ITEMS.

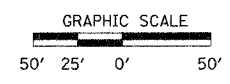
FAP RTE 328 (US45)



STA EQUATION:
 STA 10+00.00 (TR1000E 1375N)=
 STA 1197+05.61 (US45)



FAP RTE 328 (US45)



REVISIONS	
NAME	DATE

ILLINOIS DEPARTMENT OF TRANSPORTATION

EROSION CONTROL PLAN

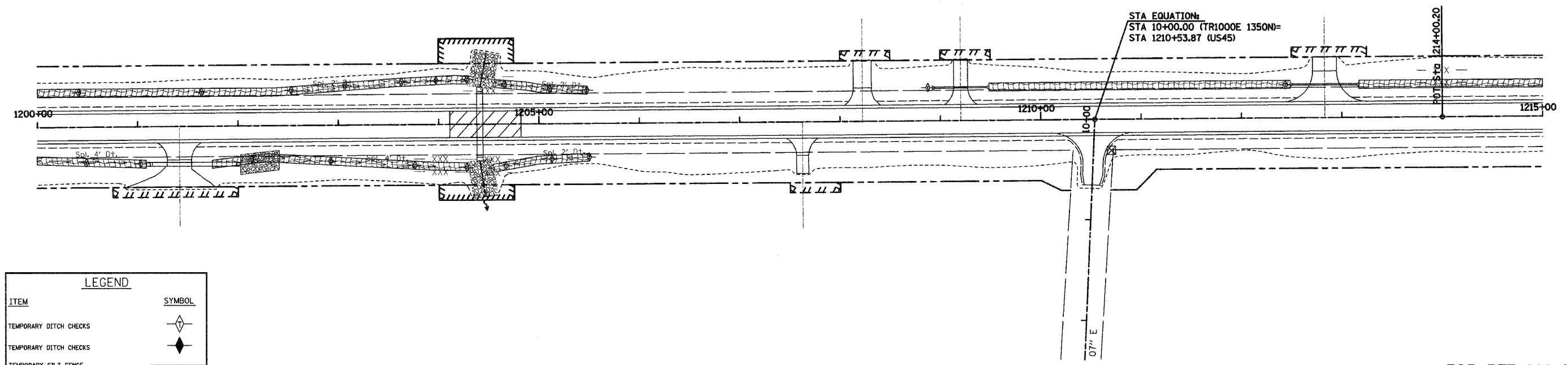
SCALE: VERT. 1"=20'
 HORIZ. 1"=40'

DATE: 10-21-05

DRAWN BY: UJ
 CHECKED BY: MAR

\\srmc1\projects\10251\10251.dwg 10/25/2005 10:57:30 AM

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
328	5R,Y, RS-1	CLAY	242	82
STA.		TO STA.		
FED. ROAD DIST. NO.		ILLINOIS	FED. AID PROJECT	
CONTRACT NO. 74078				

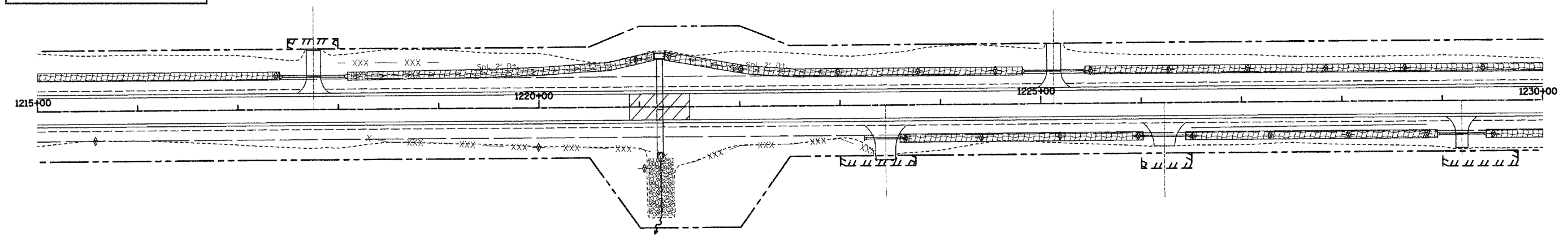


FAP RTE 328 (US45)

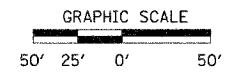
LEGEND

ITEM	SYMBOL
TEMPORARY DITCH CHECKS	
TEMPORARY DITCH CHECKS	
TEMPORARY SILT FENCE	
PERIMETER EROSION BARRIER SILT FENCE	
EROSION CONTROL BLANKET	
PRESERVE EXISTING TREES, WOODLANDS, AND UNDERSTORY (OUTSIDE CONSTRUCTION LIMITS)	
ITEMS PLACED AT BEGINNING OF CONSTRUCTION (REQUIREMENT)	
ITEMS PLACED AS DIRECTED BY ENGINEER (WHEN REQUIRED BY SITUATION)	
RIPRAP	

NOTE:
ALL ITEMS SHALL BE CONSTRUCTED AS SHOWN ON STANDARD 280001 AND AS DIRECTED BY THE ENGINEER. MAINTENANCE AND CLEANING OF THE EROSION CONTROL ITEMS SHALL BE INCLUDED IN THE RESPECTIVE EROSION CONTROL PAY ITEMS.



FAP RTE 328 (US45)



REVISIONS	
NAME	DATE

ILLINOIS DEPARTMENT OF TRANSPORTATION

EROSION CONTROL PLAN

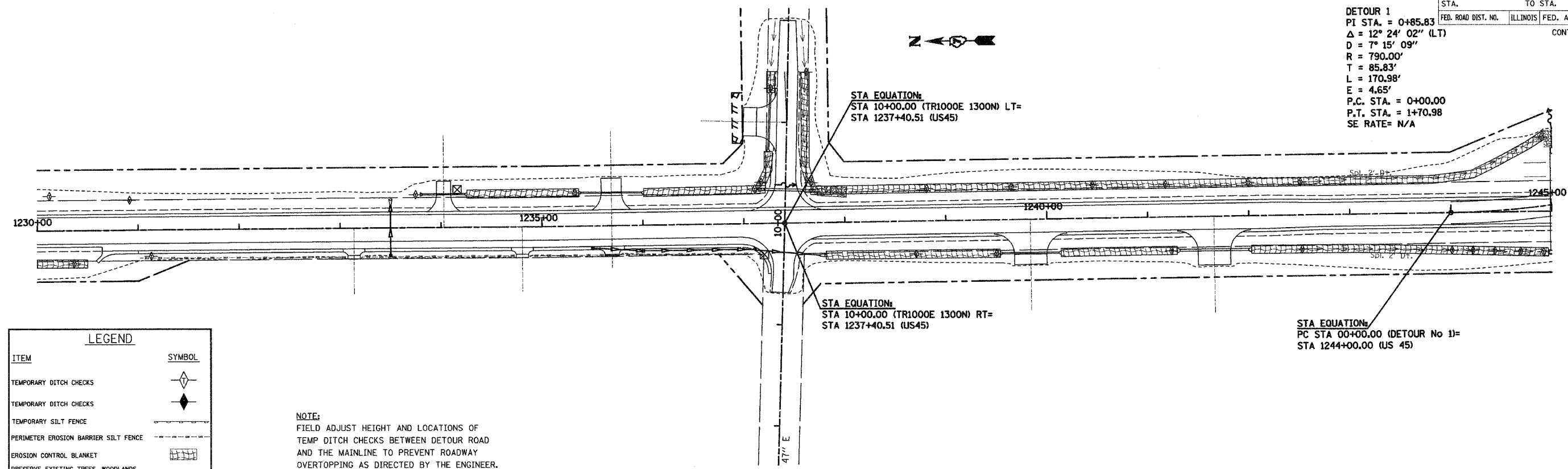
SCALE: VERT. DATE: 10-21-05
HORIZ. DATE: 10-21-05

DRAWN BY: UJ
CHECKED BY: MAR

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F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
328	5R, Y, RS-1	CLAY	242	83
STA.		TO STA.		
FED. ROAD DIST. NO.		ILLINOIS	FED. AID PROJECT	
		CONTRACT NO. 74078		

DETOUR 1
 PI STA. = 0+85.83
 $\Delta = 12^\circ 24' 02''$ (LT)
 $D = 7^\circ 15' 09''$
 $R = 790.00'$
 $T = 85.83'$
 $L = 170.98'$
 $E = 4.65'$
 P.C. STA. = 0+00.00
 P.T. STA. = 1+70.98
 SE RATE = N/A



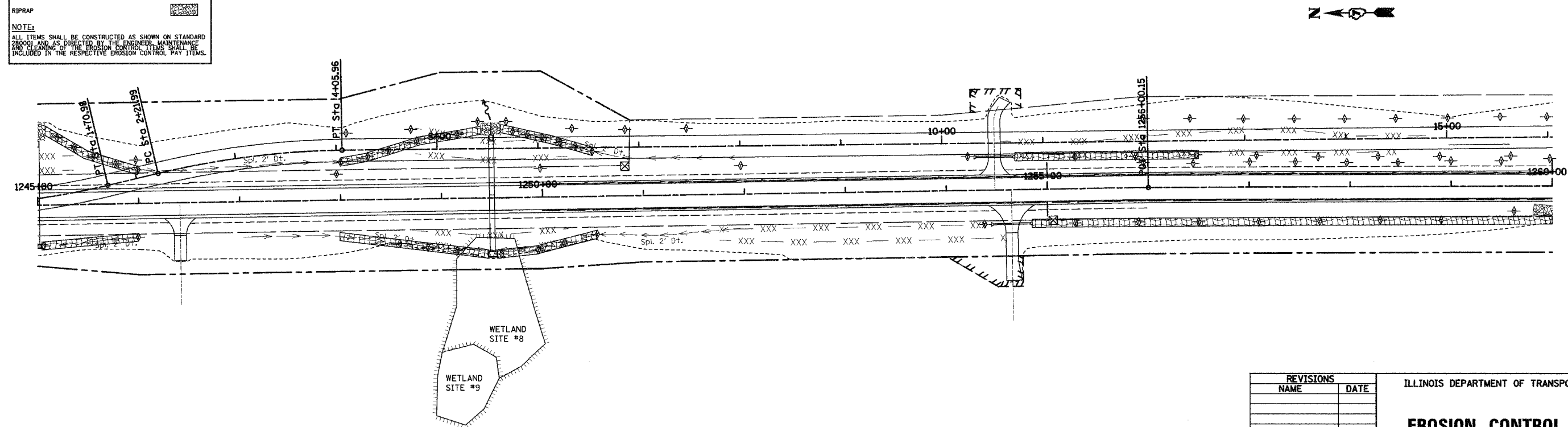
LEGEND

ITEM	SYMBOL
TEMPORARY DITCH CHECKS	
TEMPORARY SILT FENCE	
PERIMETER EROSION BARRIER SILT FENCE	
EROSION CONTROL BLANKET	
PRESERVE EXISTING TREES, WOODLANDS, AND UNDERSTORY (OUTSIDE CONSTRUCTION LIMITS)	
ITEMS PLACED AT BEGINNING OF CONSTRUCTION (REQUIREMENT)	
ITEMS PLACED AS DIRECTED BY ENGINEER (WHEN REQUIRED BY SITUATION)	
RIPRAP	

NOTE:
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NOTE:
 FIELD ADJUST HEIGHT AND LOCATIONS OF TEMP DITCH CHECKS BETWEEN DETOUR ROAD AND THE MAINLINE TO PREVENT ROADWAY OVERTOPPING AS DIRECTED BY THE ENGINEER.

FAP RTE 328 (US45)



FAP RTE 328 (US45)

GRAPHIC SCALE
 50' 25' 0' 50'

REVISIONS	
NAME	DATE

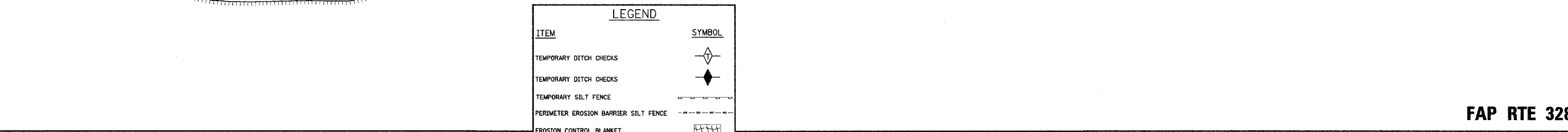
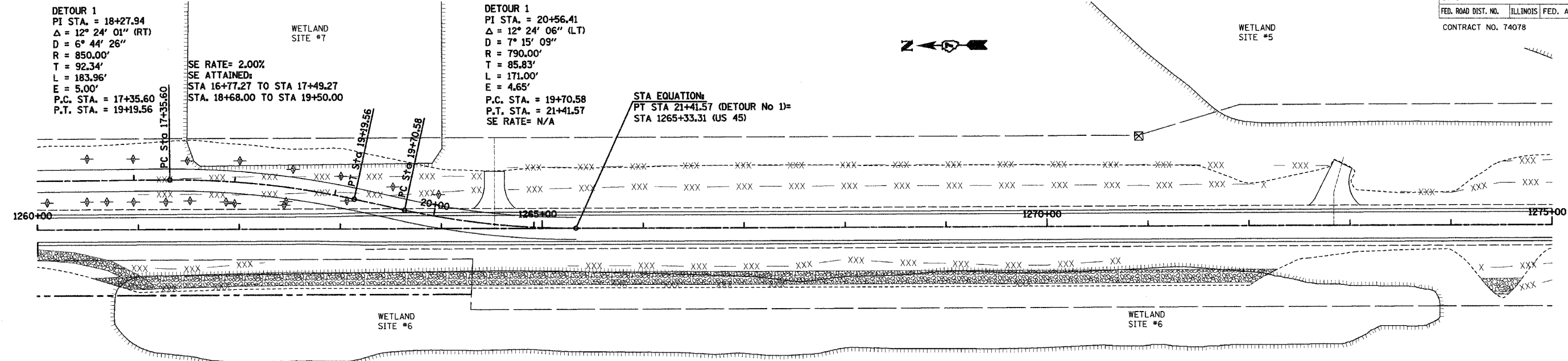
ILLINOIS DEPARTMENT OF TRANSPORTATION

EROSION CONTROL PLAN

SCALE: VERT.
 HORIZ.
 DATE: 10-21-05

DRAWN BY: LUJ
 CHECKED BY: MAR

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
328	5R, Y, RS-1	CLAY	242	84
STA.		TO STA.		
FED. ROAD DIST. NO.		ILLINOIS	FED. AID PROJECT	
CONTRACT NO. 74078				

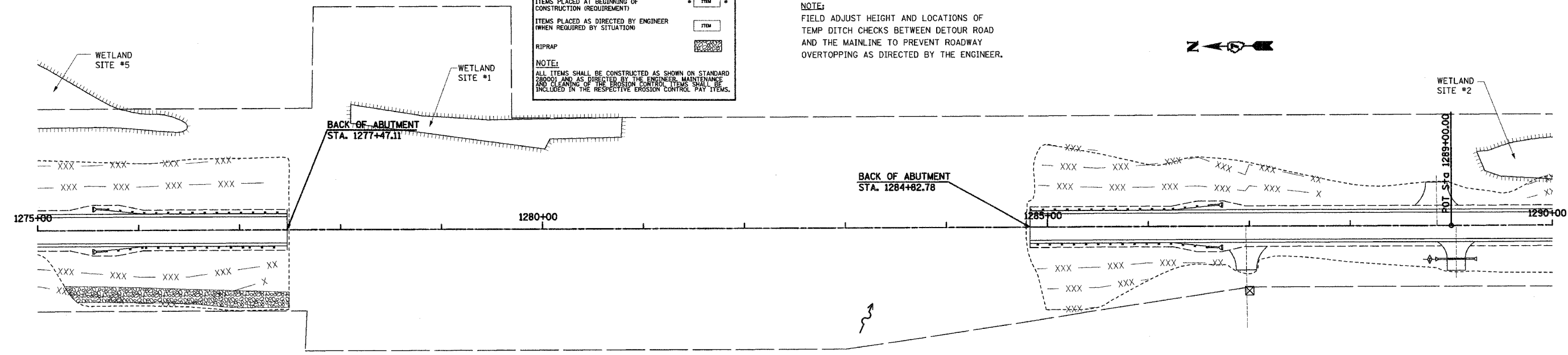


LEGEND

ITEM	SYMBOL
TEMPORARY DITCH CHECKS	
TEMPORARY DITCH CHECKS	
TEMPORARY SILT FENCE	
PERIMETER EROSION BARRIER SILT FENCE	
EROSION CONTROL BLANKET	
PRESERVE EXISTING TREES, WOODLANDS, AND UNDERSTORY (OUTSIDE CONSTRUCTION LIMITS)	
ITEMS PLACED AT BEGINNING OF CONSTRUCTION (REQUIREMENT)	
ITEMS PLACED AS DIRECTED BY ENGINEER (WHEN REQUIRED BY SITUATION)	
RIPRAP	

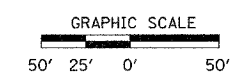
NOTE:
ALL ITEMS SHALL BE CONSTRUCTED AS SHOWN ON STANDARD 280001 AND AS DIRECTED BY THE ENGINEER. MAINTENANCE AND CLEANING OF THE EROSION CONTROL ITEMS SHALL BE INCLUDED IN THE RESPECTIVE EROSION CONTROL PAY ITEMS.

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FAP RTE 328 (US45)

FAP RTE 328 (US45)



REVISIONS	
NAME	DATE

ILLINOIS DEPARTMENT OF TRANSPORTATION

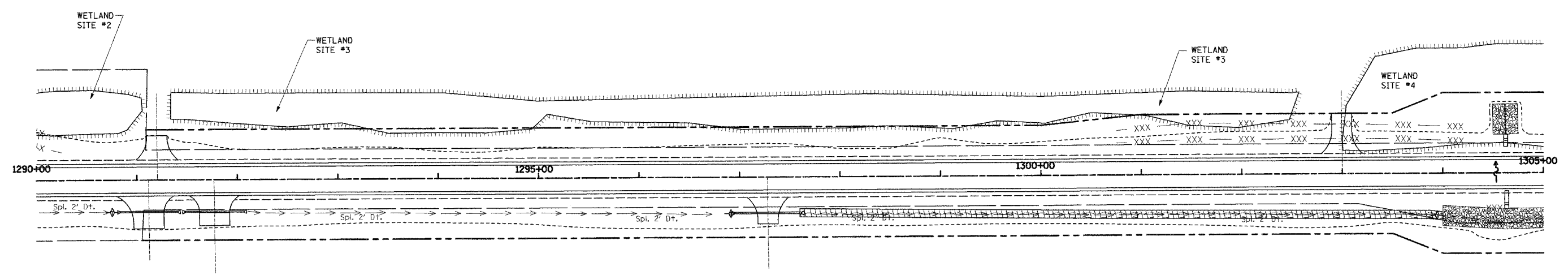
EROSION CONTROL PLAN

SCALE: VERT. _____
HORIZ. _____
DATE: 10-21-05

DRAWN BY: IJ
CHECKED BY: MAR

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F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
328	5R, Y, RS-1	CLAY	242	85
STA.		TO STA.		
FED. ROAD DIST. NO.		ILLINOIS	FED. AID PROJECT	
CONTRACT NO. 74078				

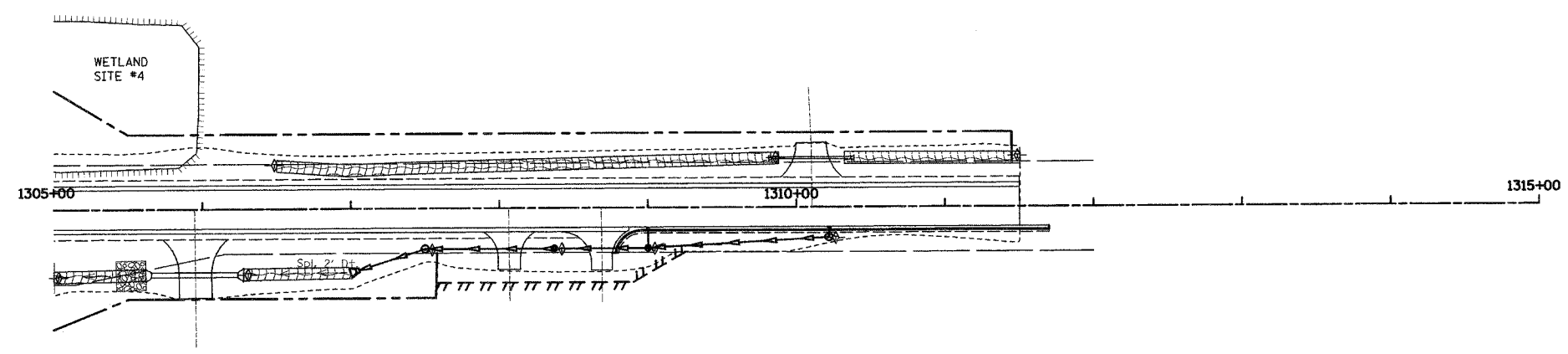


LEGEND

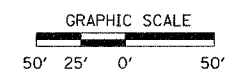
ITEM	SYMBOL
TEMPORARY DITCH CHECKS	
TEMPORARY SILT FENCE	
PERIMETER EROSION BARRIER SILT FENCE	
EROSION CONTROL BLANKET	
PRESERVE EXISTING TREES, WOODLANDS, AND UNDERSTORY (OUTSIDE CONSTRUCTION LIMITS)	
ITEMS PLACED AT BEGINNING OF CONSTRUCTION (REQUIREMENT)	
ITEMS PLACED AS DIRECTED BY ENGINEER (WHEN REQUIRED BY SITUATION)	
RIPRAP	

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FAP RTE 328 (US45)



FAP RTE 328 (US45)



REVISIONS	
NAME	DATE

ILLINOIS DEPARTMENT OF TRANSPORTATION

EROSION CONTROL PLAN

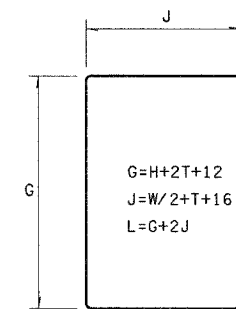
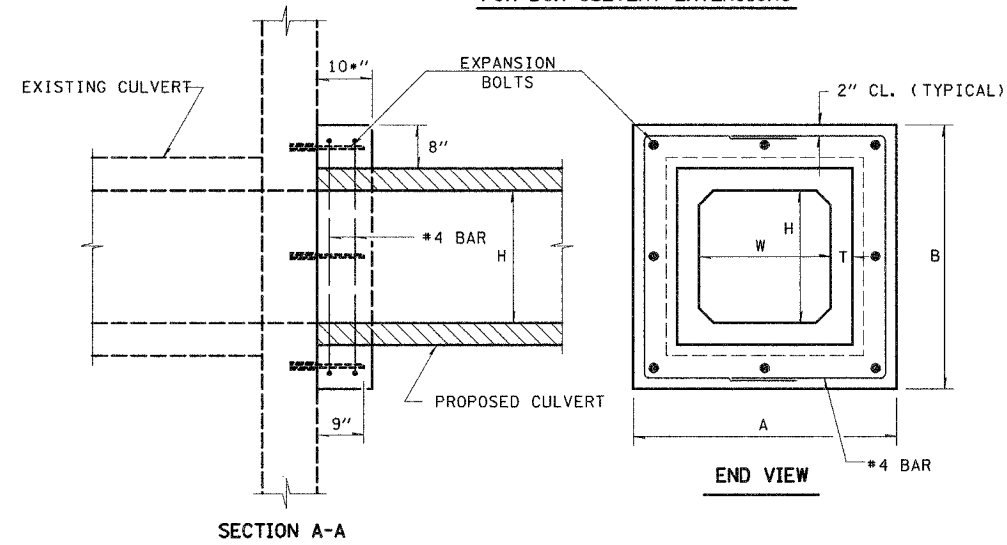
SCALE: VERT. HORIZ.
DATE: 10-21-05

DRAWN BY: UJ
CHECKED BY: MAR

SIDE	STATION	DIMENSIONS						REINFORCEMENT BARS					EXPANSION BOLTS	VOLUME OF CONCRETE
		A	B	C	W	H	T	G	J	L	NUMBER BARS	EA		
BOTH	1304+62.98	74	74	10	48	48	5	70	45	160	4	36	16	0.5
• LT	1158+80.50	74	50	10	48	24	5	46	45	136	4	30	8	0.4
• LT	1221+20.00	102	90	10	72	60	7	86	59	204	4	45	8	0.6
• LT	1245+00.00	60	60	10	36	36	4	56	38	132	4	29	8	0.5

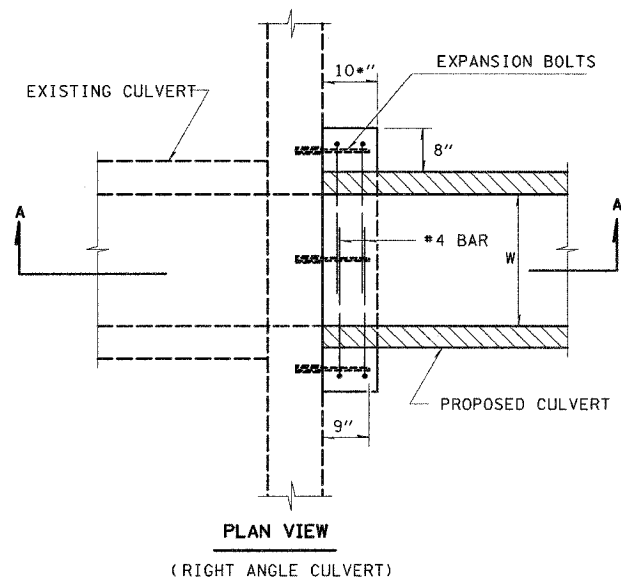
• USED FOR STAGE CONSTRUCTION ONLY

DETAIL OF CONCRETE COLLAR FOR BOX CULVERT EXTENSIONS

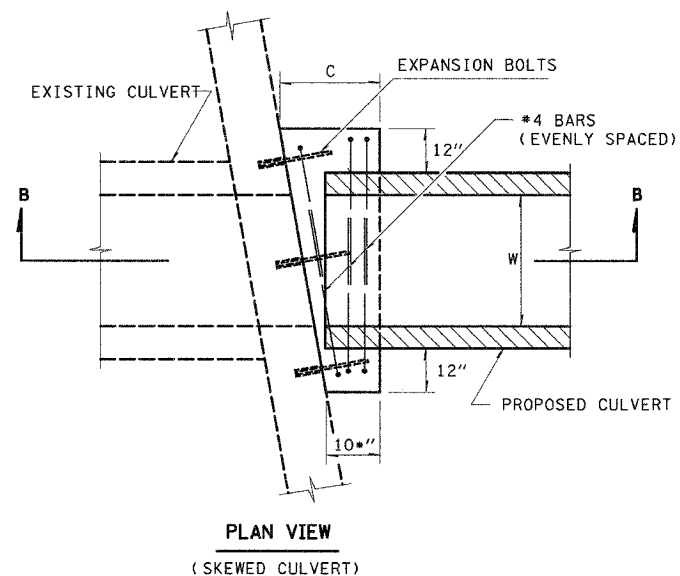


BAR DETAIL

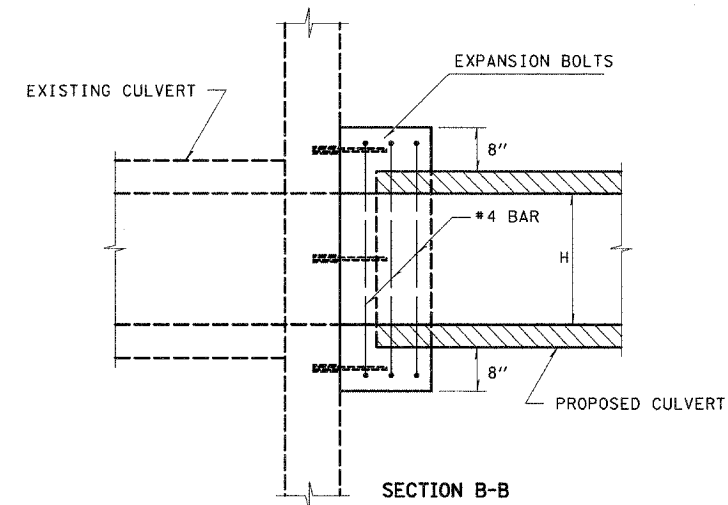
NOTE: EXPANSION BOLTS SHALL CONSIST OF SELF-DRILLING EXPANSION SHIELDS AND HOOKED BOLTS. HOOKED BOLTS SHALL EXTEND A MINIMUM OF 9" INTO THE NEW CONCRETE.



PLAN VIEW (RIGHT ANGLE CULVERT)



PLAN VIEW (SKEWED CULVERT)



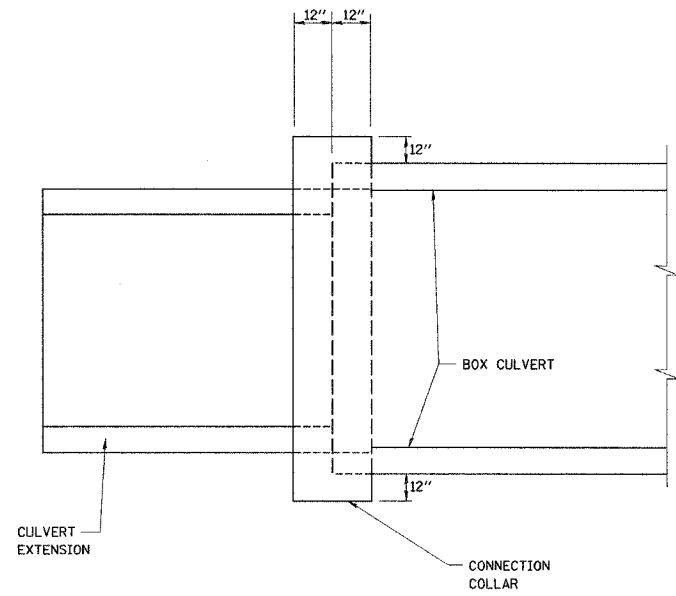
SECTION B-B

REVISIONS	
NAME	DATE

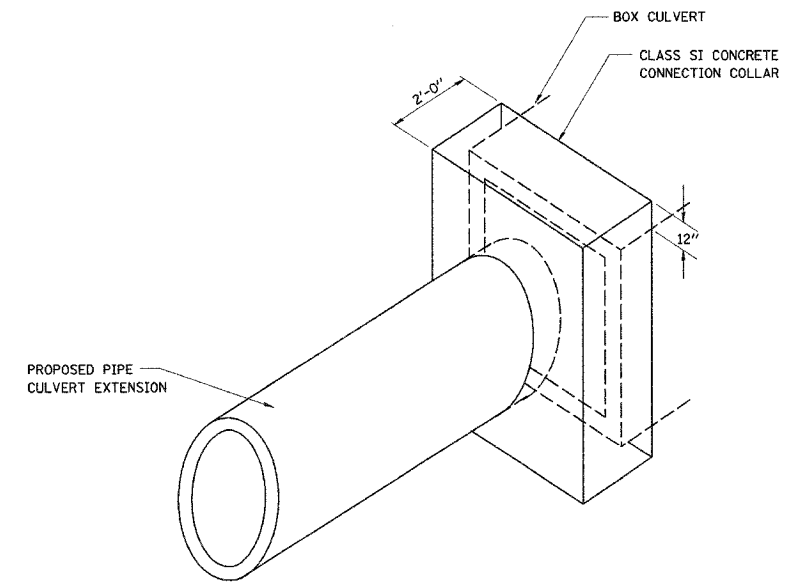
ILLINOIS DEPARTMENT OF TRANSPORTATION
CONCRETE COLLAR DETAIL FOR BOX CULVERT EXTENSIONS

SCALE: VERT. HORIZ. DATE ISSUED: 05-03-96 DRAWN BY CHECKED BY

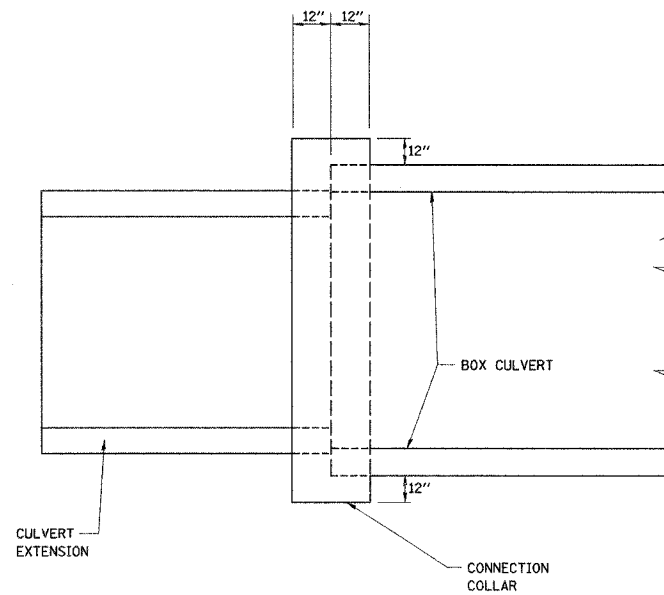
P. & SHEET	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
328	5R, Y, RS-1	CLAY	242	87
STA.		TO STA.		
EXISTING CONDITIONS:				
CONTRACT NO. 74078				



PLAN VIEW
NOT TO SCALE

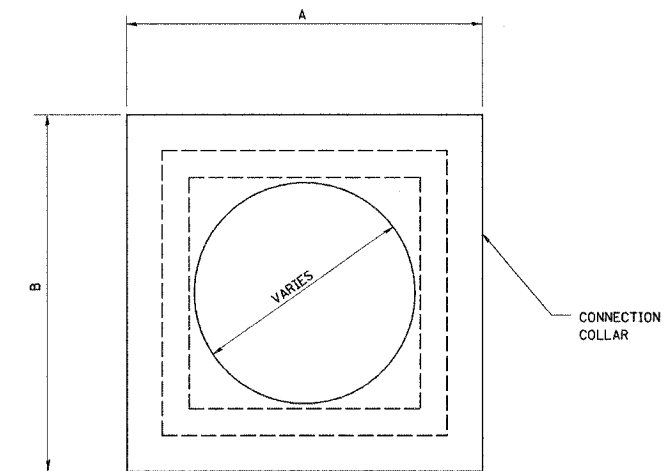


PIPE CULVERT EXTENSION SKETCH
NOT TO SCALE



ELEVATION VIEW
NOT TO SCALE

CULVERT NO.	STA	SPAN	RISE	PIPE	DIM A	DIM B	CLASS SI CONC
19	1249+50	5'	5'	60"	8'-0"	8'-0"	3.3 CY
TOTAL							3.3 CY



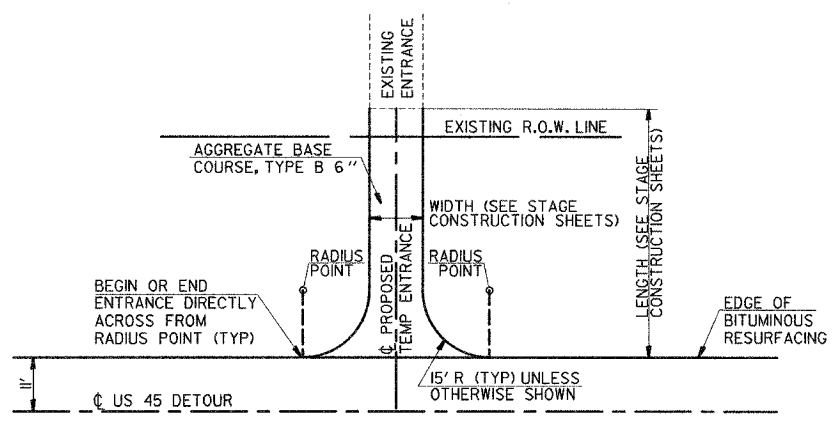
FRONT VIEW
NOT TO SCALE

1. PIPE CULVERT EXTENSION TO BE CENTERED ON BOX CULVERT OPENING
2. THE CONNECTION COLLAR SHALL BE CLASS SI CONCRETE THROUGHOUT
3. UNSUITABLE MATERIAL SHALL BE DISPOSED OF AS PER THE STANDARD SPECIFICATIONS
4. COLLAR SHALL BE PAID FOR AS CONCRETE COLLAR.

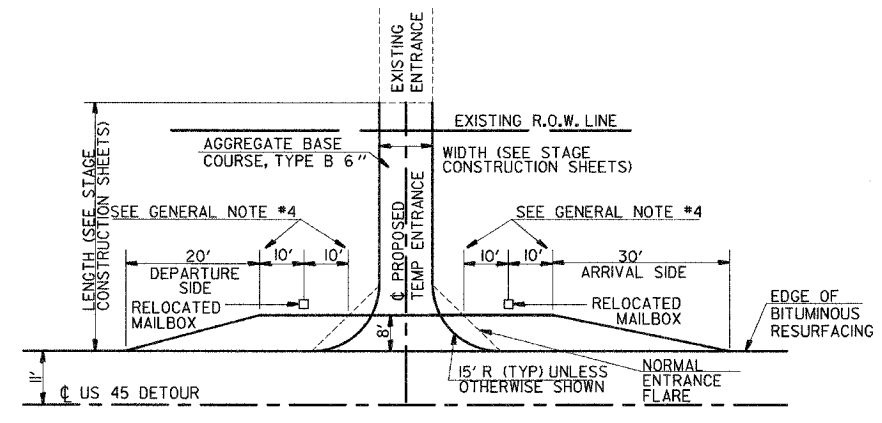
REVISIONS	
NAME	DATE

ILLINOIS DEPARTMENT OF TRANSPORTATION
**CONCRETE COLLAR DETAIL
FOR STAGE CONSTRUCTION**

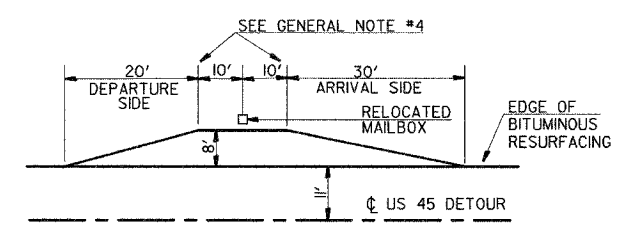
F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
328	5R, Y, RS-1	CLAY	242	88
STA.		TO STA.		
FED. ROAD DIST. NO. 7		ILLINOIS	FED. AID PROJECT	
CONTRACT NO. 74078				



TEMPORARY ENTRANCE WITHOUT MAILBOX TURNOUT PLAN



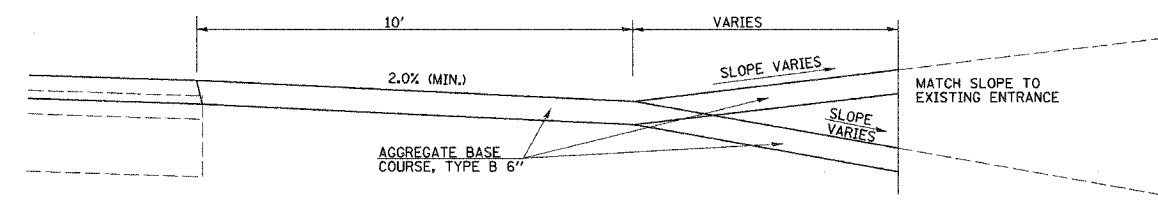
TEMPORARY ENTRANCE WITH MAILBOX TURNOUT PLAN



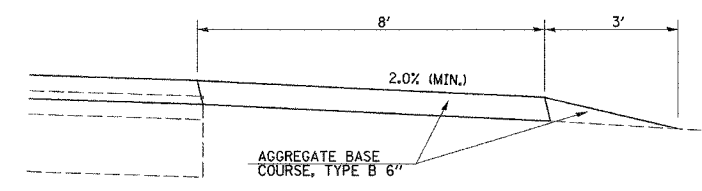
TEMPORARY MAILBOX TURNOUT WITHOUT ENTRANCE PLAN

GENERAL NOTES

1. AGGREGATE BASE COURSE, TYPE B OF THE THICKNESS SPECIFIED IN THE PLANS SHALL BE USED TO CONSTRUCT ALL TEMPORARY MAILBOX TURNOUTS.
2. THE AGGREGATE BASE COURSE SHALL BE CONSTRUCTED TO DIMENSIONS AS SHOWN.
3. THE TEMPORARY RELOCATION OF EXISTING MAILBOXES SHALL BE IN ACCORDANCE WITH ARTICLE 107.20 (107.19) OF THE STANDARD SPECIFICATIONS.
4. WHEN MORE THAN ONE RELOCATED MAILBOX IS INCLUDED IN A PARTICULAR LOCATION THE TWO 10' DIMENSIONS AS SHOWN SHALL BE FROM THE END MAILBOX.
5. CROSS SLOPE SHALL BE AS SHOWN ON THE STATION CROSS SECTIONS AND/OR AS DIRECTED BY THE ENGINEER. MIN 4% (1/2'') DESIRABLE; MAX. 8% (1'')



TEMPORARY ENTRANCE PROFILE



TEMPORARY MAILBOX TURNOUTS WITHOUT ENTRANCE PROFILE

REVISIONS	
NAME	DATE

ILLINOIS DEPARTMENT OF TRANSPORTATION

TEMPORARY ENTRANCE & MAILBOX TURNOUT DETAILS

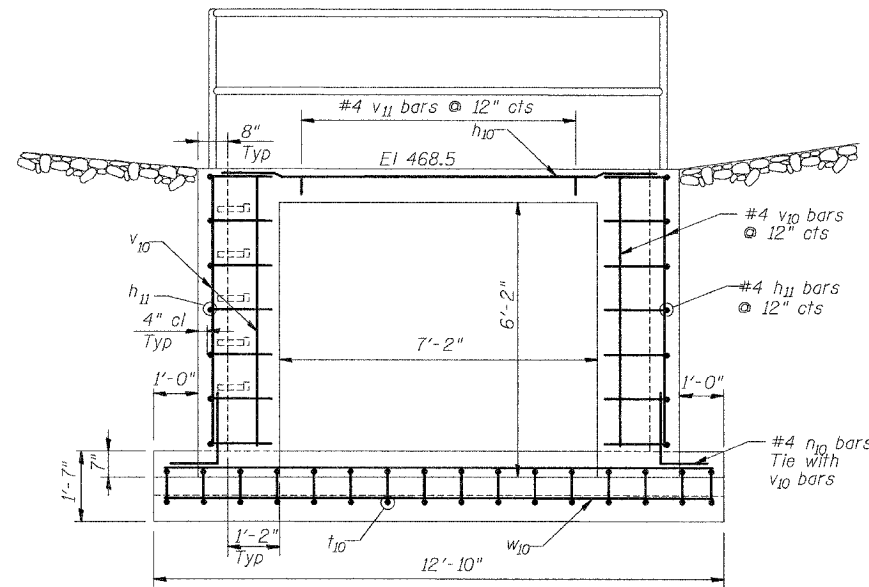
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DATE: 10-21-05 CHECKED BY: MAR

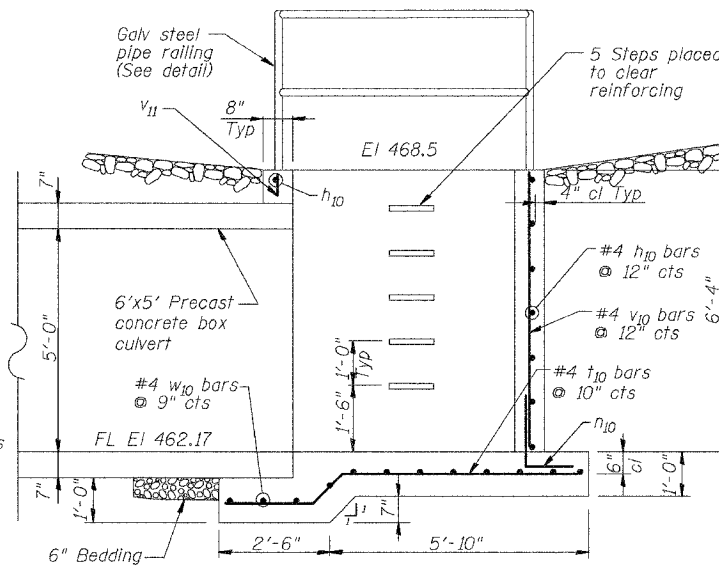
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

FAP RTE	SECTION	COUNTY	TOTAL SHEETS	SHEET NO
328	SR, Y, RS-1	CLAY	242	89
STA	TO STA		ILLINOIS US 45	

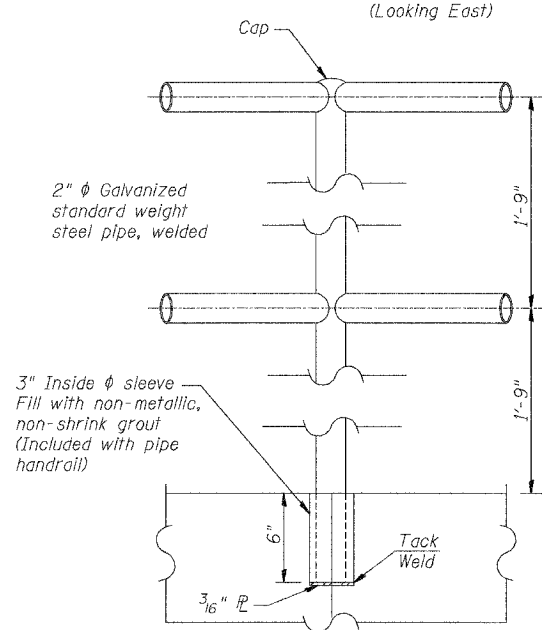
CONTRACT NO. 74078



ELEVATION
(Looking East)



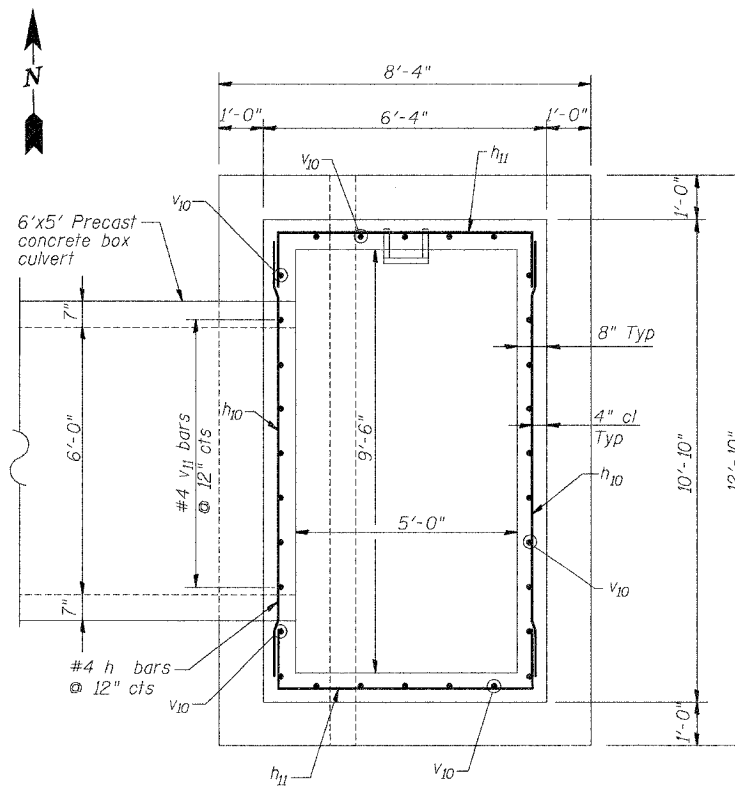
ELEVATION
(Looking North)



PIPE RAILING DETAIL

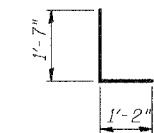
HR HURST-ROSCHKE ENGINEERS, INC.
CONSULTING ENGINEERS & ARCHITECTS
1400 E. TREMONT ST.
HILLSBORO, ILLINOIS 62049

DESIGNED	JLG
CHECKED	GEP
DRAWN	BAD
CHECKED	JLG

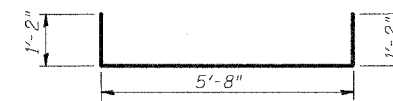


PLAN

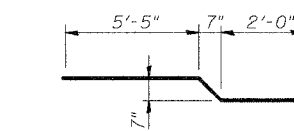
BAR LAP
#4 - 1'-1"



BAR n10



BAR h11



BAR t10

GENERAL NOTES

Class SI Concrete shall be used throughout.

Reinforcement shall conform to the requirements of AASHTO M-31 or M-53 Grade 60.

Exposed edges shall be chamfered 3/4"

Steps shall be Gray Cast Iron conforming to the requirements of Standard 602701. Steps will not be paid for separately but will be considered as included in the contract unit price per cubic yard for Class SI Concrete and no additional compensation will be allowed.

Steps shall be embedded into the wall a minimum of 3 inches. Steps shall not be extended on the outside.

Steel pipe shall conform to the requirements of ASTM A-120.

All posts, railing, & sleeves shall be galvanized after shop fabrication in accordance with AASHTO M-111 and ASTM A-385.

Galvanized material shall not be painted.

Place 1 - 3" ϕ weep hole on the north, south, and east walls, 1' up from flow line elevation.

BILL OF MATERIAL

Bar	No.	Size	Length	Shape
n10	9	#4	10'-0"	
h11	14	#4	8'-0"	
n10	24	#4	2'-9"	
t10	16	#4	8'-1"	
v10	24	#4	6'-2"	
v11	6	#4	0'-5"	
w10	12	#4	12'-6"	
Class SI Concrete			Cu Yd	7.9
Reinforcing Bars			Lb	470
Pipe Handrail			Foot	32

SPECIAL DROP INLET #1
FAP 328 (US 45)
CLAY COUNTY STA 1221+20

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

FAP RTE	SECTION	COUNTY	TOTAL SHEETS	SHEET NO
328	5R, Y, RS-1	CLAY	242	90
STA	TO STA			
	ILLINOIS		US 45	

CONTRACT NO. 74078

GENERAL NOTES

Class SI Concrete shall be used throughout.

Reinforcement shall conform to the requirements of AASHTO M-31 or M-53 Grade 60.

Exposed edges shall be chamfered $\frac{3}{4}$ "

Steps shall be Gray Cast Iron conforming to the requirements of Standard 602701. Steps will not be paid for separately but will be considered as included in the contract unit price per cubic yard for Class SI Concrete and no additional compensation will be allowed.

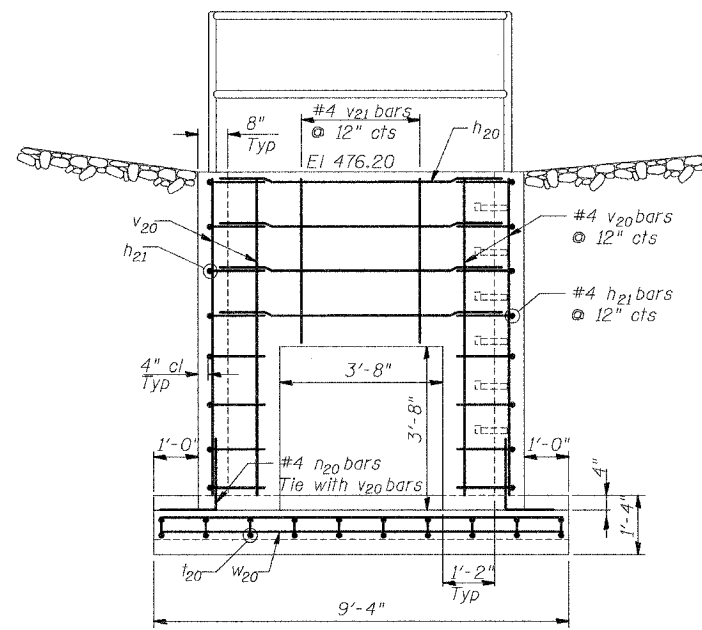
Steps shall be embedded into the wall a minimum of 3 inches. Steps shall not be extended on the outside.

Steel pipe shall conform to the requirements of ASTM A-120.

All posts, railing, & sleeves shall be galvanized after shop fabrication in accordance with AASHTO M-111 and ASTM A-385.

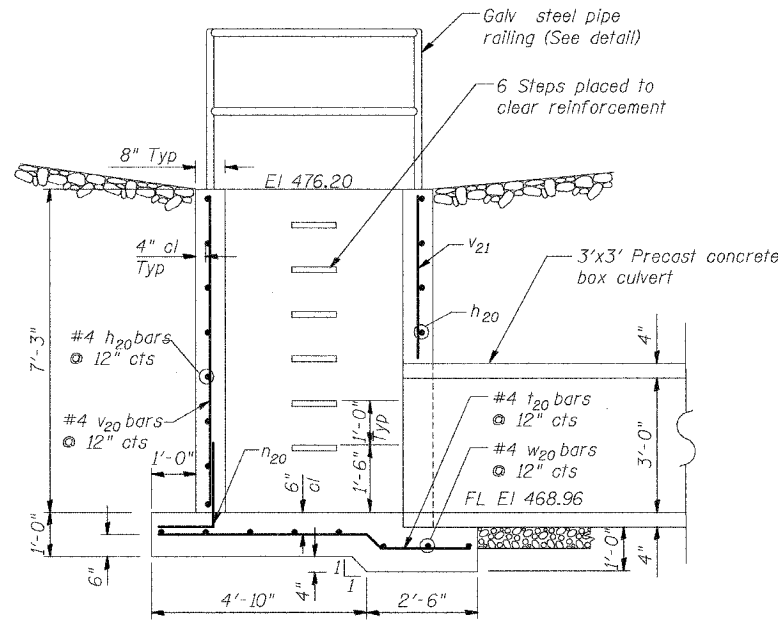
Galvanized material shall not be painted.

Place 1 - 3" ϕ weep hole on north, south, and west walls, 1' up from flow line elevation.



ELEVATION

(Looking West)

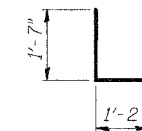


ELEVATION

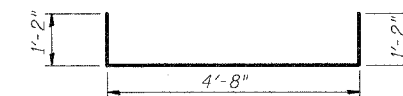
(Looking North)

Bar Lap

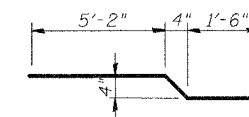
#4 bars = 1'-1"



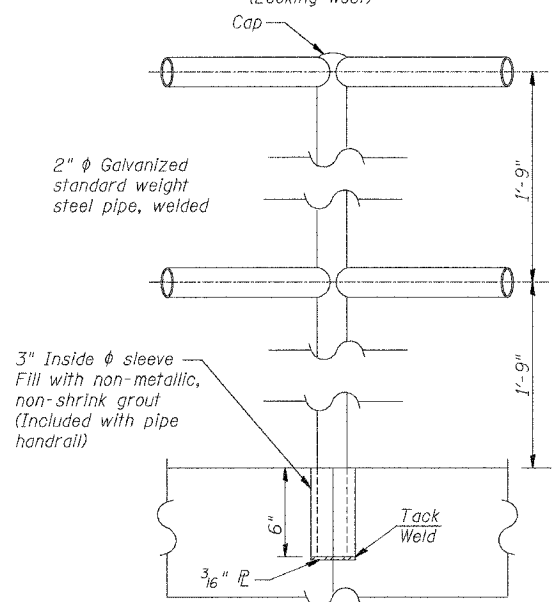
BAR n20



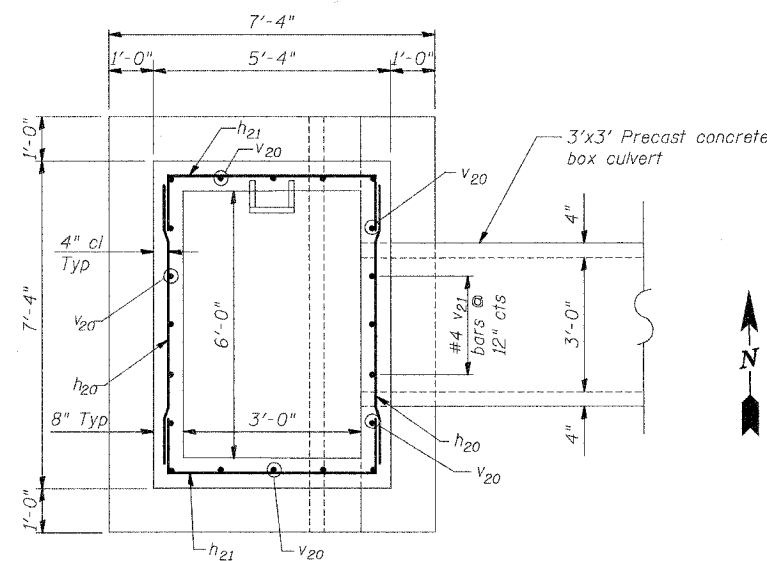
BAR h21



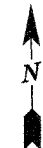
BAR t20



PIPE RAILING DETAIL



PLAN



BILL OF MATERIAL

Bar	No.	Size	Length	Shape
h20	13	#4	6'-6"	—
h21	16	#4	7'-0"	—
n20	19	#4	2'-9"	L
t20	10	#4	7'-4"	—
v20	19	#4	7'-1"	—
v21	3	#4	3'-7"	—
w20	8	#4	9'-0"	—
Class SI Concrete			Cu Yd	6.2
Reinforcing Bars			Lb	360
Pipe Handrail			Foot	21

HR HURST-ROSCH ENGINEERS, INC.
CONSULTING ENGINEERS & ARCHITECTS
1400 E. TREMONT ST.
HILLSBORO, ILLINOIS 62049

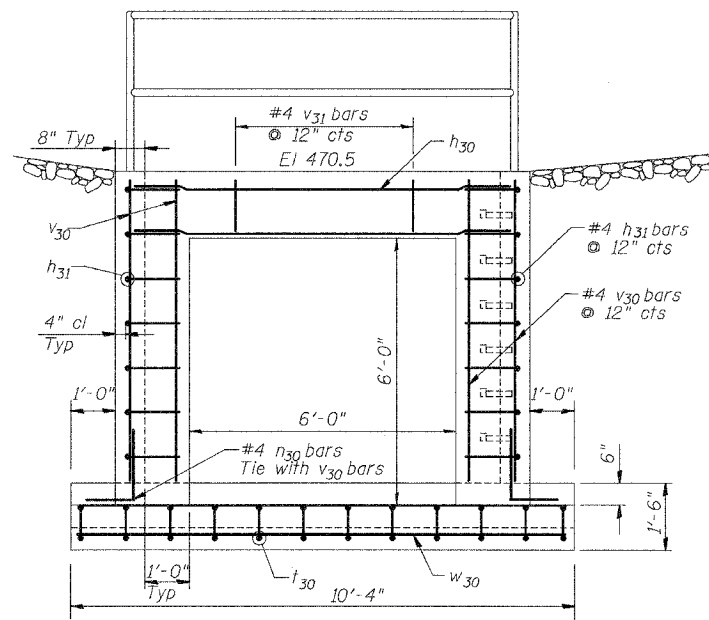
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CHECKED	RPB
DRAWN	BAD
CHECKED	RPB

SPECIAL DROP INLET #2
FAP 328 (US 45)
CLAY COUNTY STA 1245+00

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

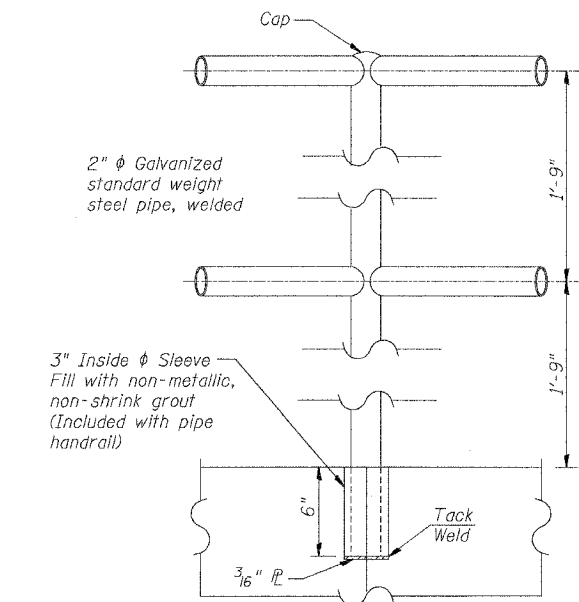
FAP RTE	SECTION	COUNTY	TOTAL SHEETS	SHEET NO
328	5R, Y, RS-1	CLAY	242	91
STA	TO STA		ILLINOIS US 45	

CONTRACT NO. 74078



ELEVATION

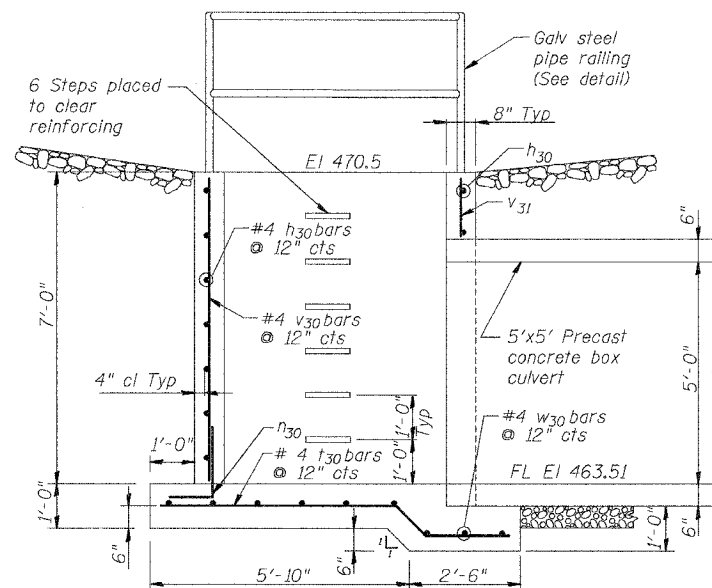
(Looking West)



PIPE RAILING DETAIL

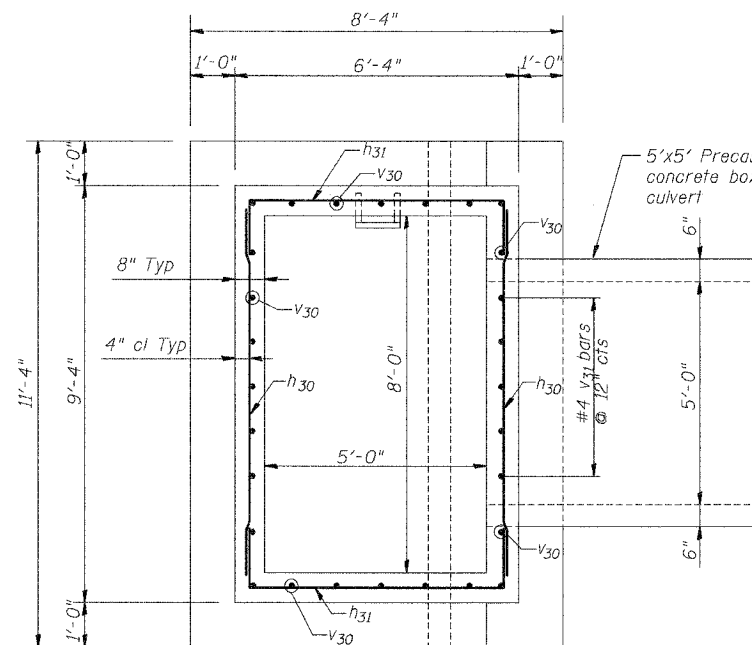
HR HURST-ROSCHKE ENGINEERS, INC.
CONSULTING ENGINEERS & ARCHITECTS
1400 E. TREMONT ST.
HILLSBORO, ILLINOIS 62049

DESIGNED	JLG
CHECKED	RPB
DRAWN	BAD
CHECKED	RPB



ELEVATION

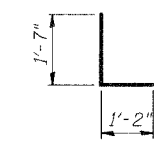
(Looking North)



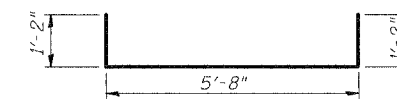
PLAN

BAR LAP

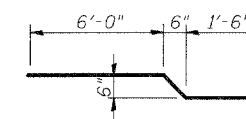
#4 - 1'-1"



BAR n30



BAR h31



BAR t30

GENERAL NOTES

Class SI Concrete shall be used throughout.

Reinforcement shall conform to the requirements of AASHTO M-31 or M-53 Grade 60.

Exposed edges shall be chamfered 3/4"

Steps shall be Gray Cast Iron conforming to the requirements of Standard 602701. Steps will not be paid for separately but will be considered as included in the contract unit price per cubic yard for Class SI Concrete and no additional compensation will be allowed.

Steps shall be embedded into the wall a minimum of 3 inches. Steps shall not be extended on the outside.

Steel pipe shall conform to the requirements of ASTM A-120.

All posts, railing, & sleeves shall be galvanized after shop fabrication in accordance with AASHTO M-111 and ASTM A-385.

Galvanized material shall not be painted.




Place 1 - 3" ϕ weep hole on north, south, and west walls, 1' up from flow line elevation.

BILL OF MATERIAL

Bar	No.	Size	Length	Shape
h30	9	#4	8'-6"	U
h31	14	#4	8'-0"	U
n30	23	#4	2'-9"	L
t30	12	#4	8'-2"	T
v30	23	#4	6'-10"	—
v31	5	#4	1'-2"	—
w30	12	#4	11'-0"	—
Class SI Concrete			Cu Yd	7.6
Reinforcing Bars			Lb	430
Pipe Handrail			Foot	29

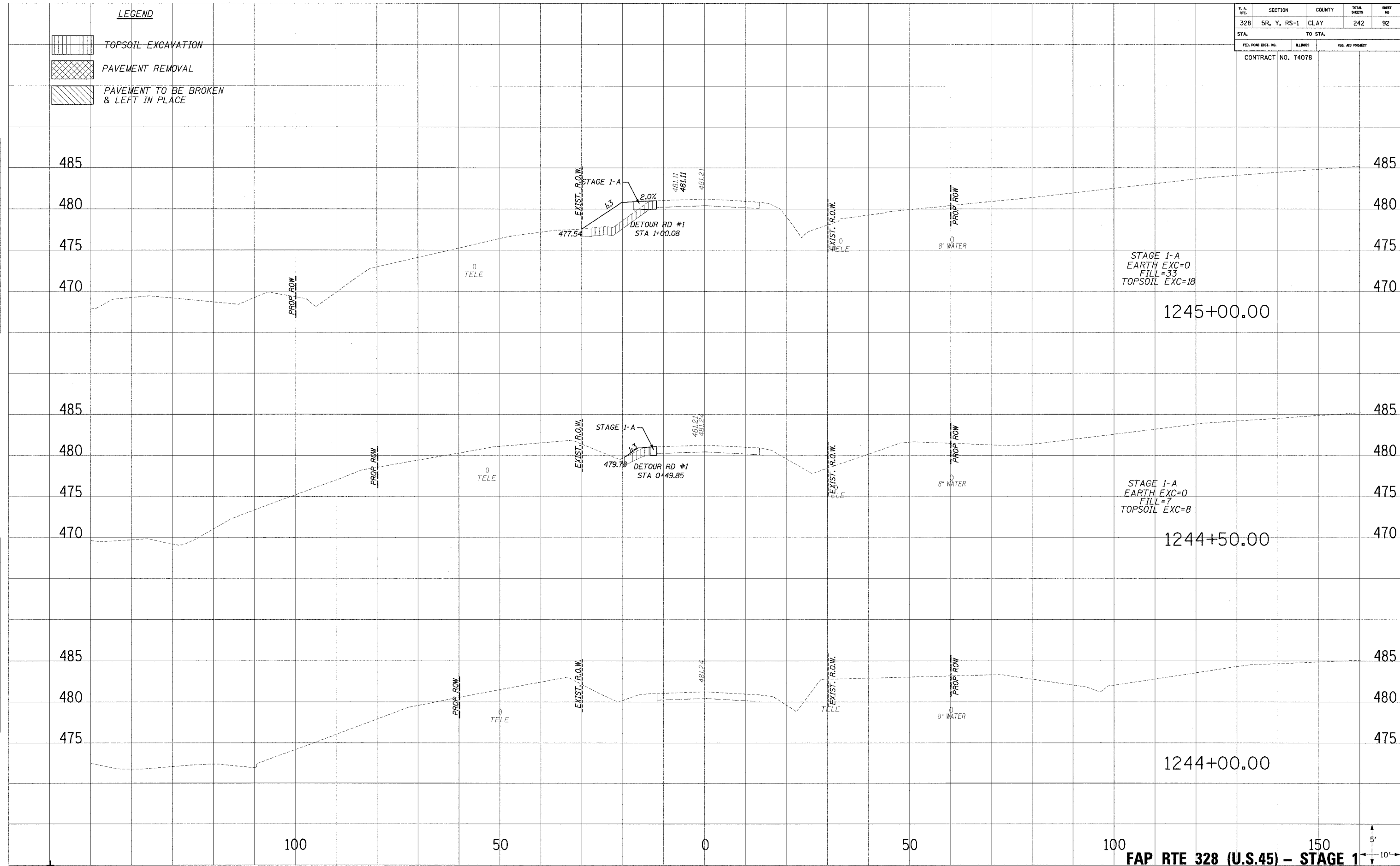
SPECIAL DROP INLET #3
FAP 328 (US 45)
CLAY COUNTY STA 1249+50

F. A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
328	5R, Y, RS-1	CLAY	242	92
STA. TO STA.		FED. ROAD DIST. NO. ILLINOIS FED. AID PROJECT		
		CONTRACT NO. 74078		

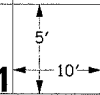
- LEGEND**
-  TOPSOIL EXCAVATION
 -  PAVEMENT REMOVAL
 -  PAVEMENT TO BE BROKEN & LEFT IN PLACE

PLATTED
 FOR DATE
 NOTE BOOK
 AREAS CHECKED
 NO.




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 FOR DATE
 NOTE BOOK
 AREAS CHECKED
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FAP RTE 328 (U.S.45) - STAGE 1

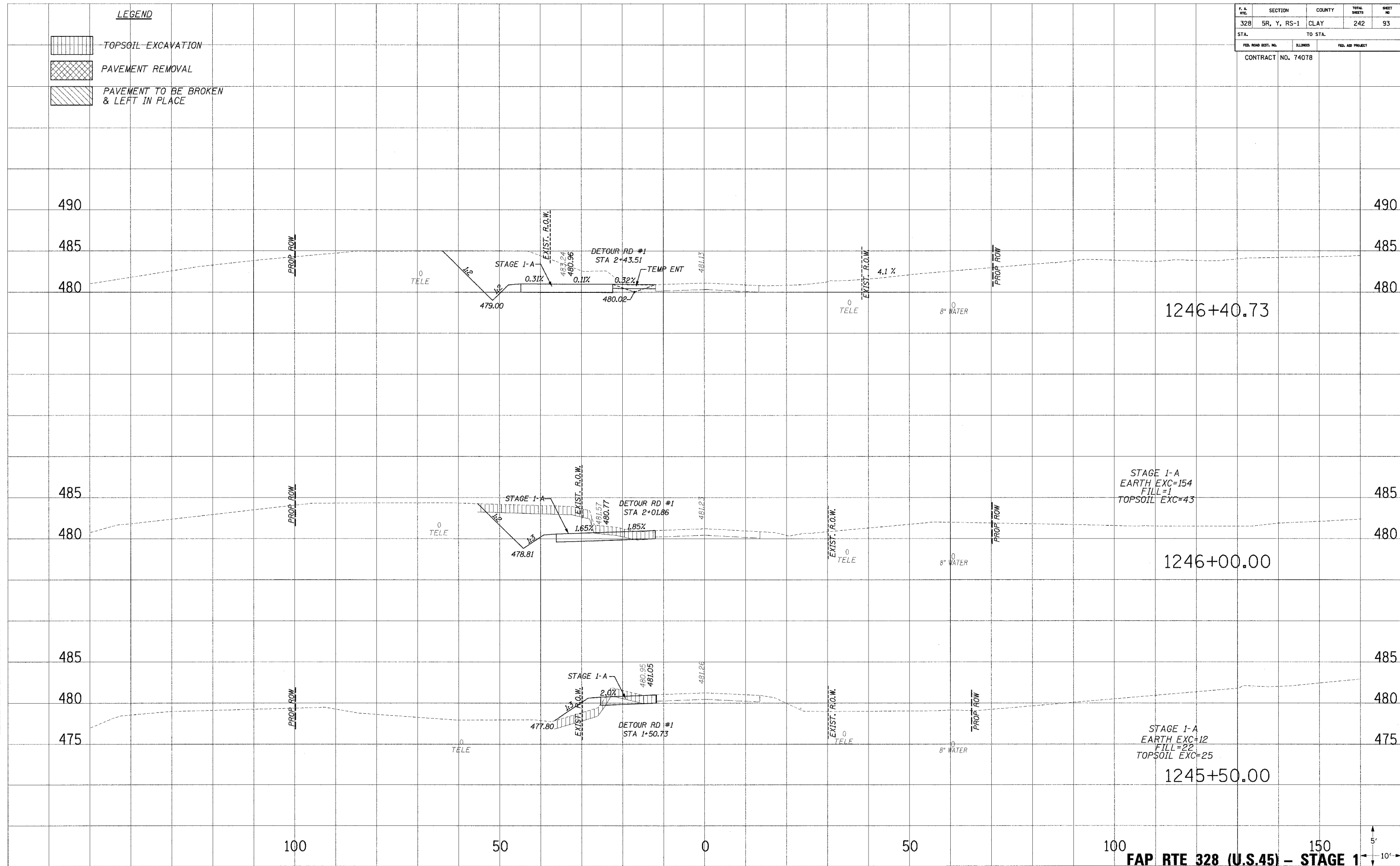


F. A. RYE	SECTION	COUNTY	TOTAL SHEETS	SHEET NO
328	5R, Y, RS-1	CLAY	242	93
STA.		TO STA.		
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		
CONTRACT NO. 74078				

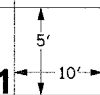
- LEGEND**
-  TOPSOIL EXCAVATION
 -  PAVEMENT REMOVAL
 -  PAVEMENT TO BE BROKEN & LEFT IN PLACE

DATE: _____
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DATE: _____
 DRAWN BY: _____
 CHECKED BY: _____
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


FAP RTE 328 (U.S.45) - STAGE 1



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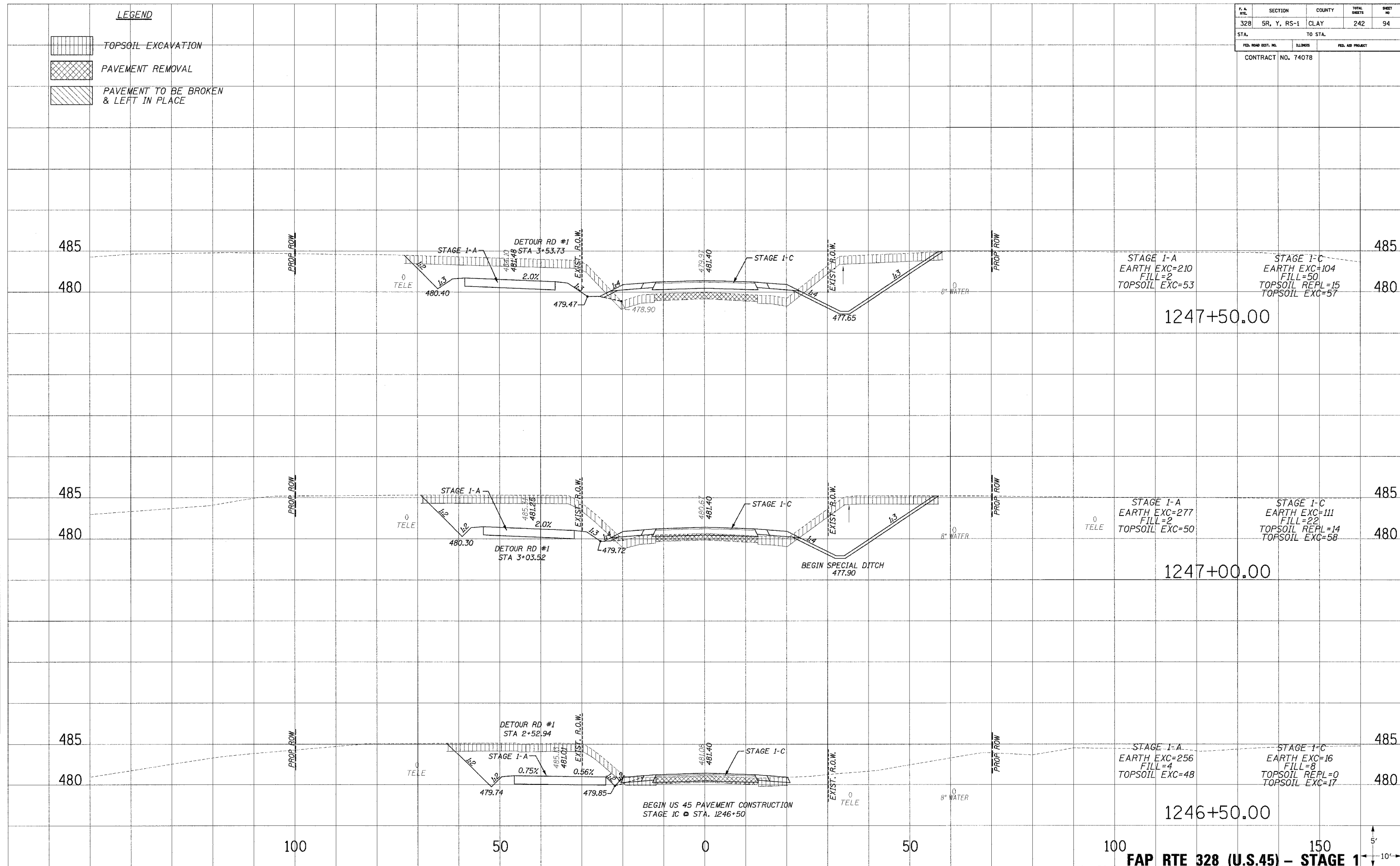
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328	SR, Y, RS-1	CLAY	242	94
STA.		TO STA.		
FED. ROAD DIST. NO.		ILLINOIS	FED. AID PROJECT	
CONTRACT NO. 74078				

- LEGEND**
-  TOPSOIL EXCAVATION
 -  PAVEMENT REMOVAL
 -  PAVEMENT TO BE BROKEN & LEFT IN PLACE

PLATED
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 AREAS CHECKED
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 NOTE BOOK
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 AREAS CHECKED
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 NOTE BOOK
 TEMPLATE
 AREAS CHECKED
 NO.



STAGE 1-A
 EARTH EXC=210
 FILL=2
 TOPSOIL EXC=53

STAGE 1-C
 EARTH EXC=104
 FILL=50
 TOPSOIL REPL=15
 TOPSOIL EXC=57

1247+50.00

STAGE 1-A
 EARTH EXC=277
 FILL=2
 TOPSOIL EXC=50

STAGE 1-C
 EARTH EXC=111
 FILL=22
 TOPSOIL REPL=14
 TOPSOIL EXC=58

1247+00.00

STAGE 1-A
 EARTH EXC=256
 FILL=4
 TOPSOIL EXC=48

STAGE 1-C
 EARTH EXC=16
 FILL=8
 TOPSOIL REPL=0
 TOPSOIL EXC=17




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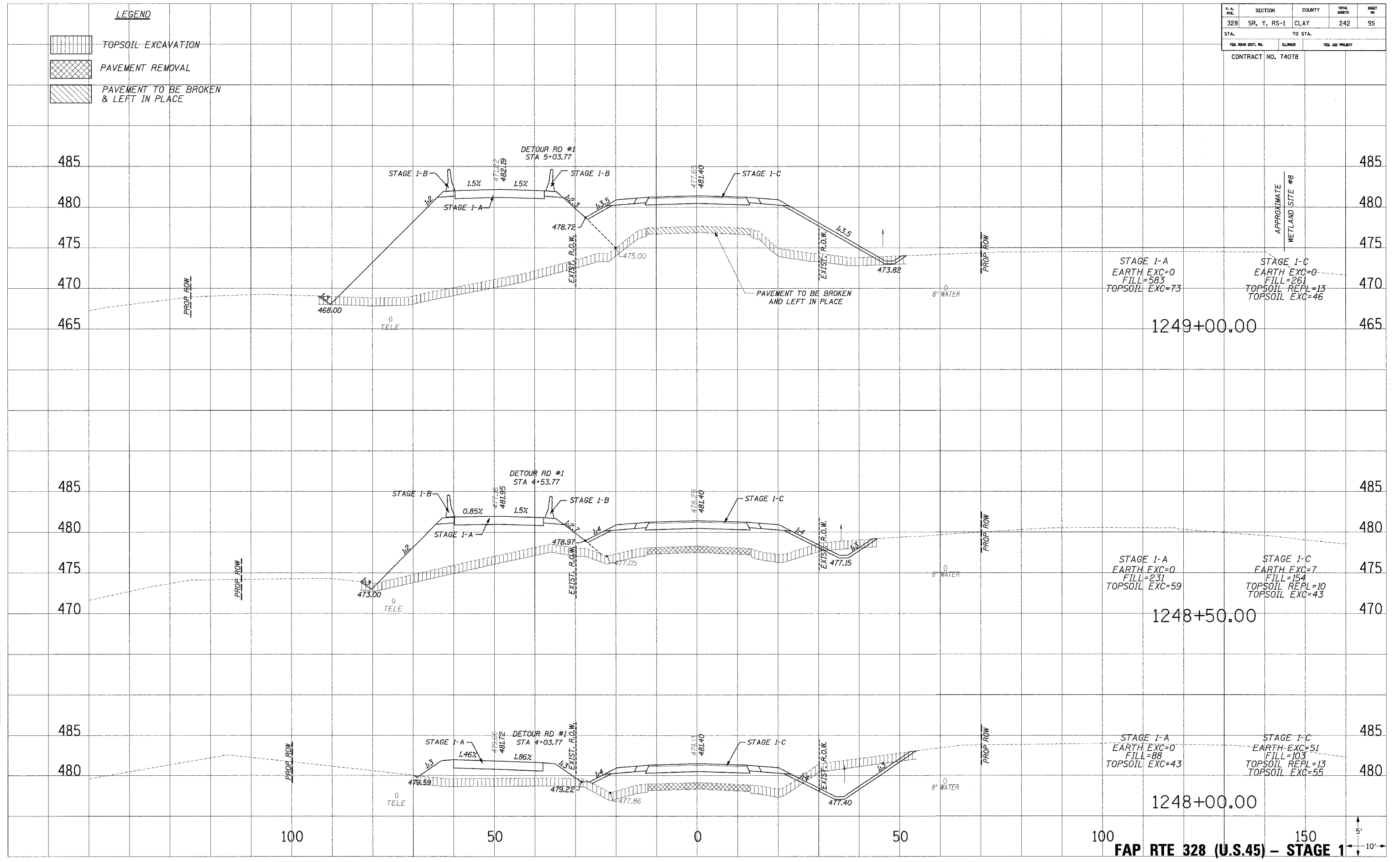
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STA. TO STA.				
FED. ROAD DIST. NO.		ELLIPHS	FED. AID PROJECT	
CONTRACT NO. 74078				

LEGEND

-  TOPSOIL EXCAVATION
-  PAVEMENT REMOVAL
-  PAVEMENT TO BE BROKEN & LEFT IN PLACE

SHEET NO. 95
 DATE 10/24/2009 8:53:09 AM
 DRAWN BY J. B. BROWN
 CHECKED BY J. B. BROWN
 APPROVED BY J. B. BROWN
 PROJECT NO. 74078
 CONTRACT NO. 74078

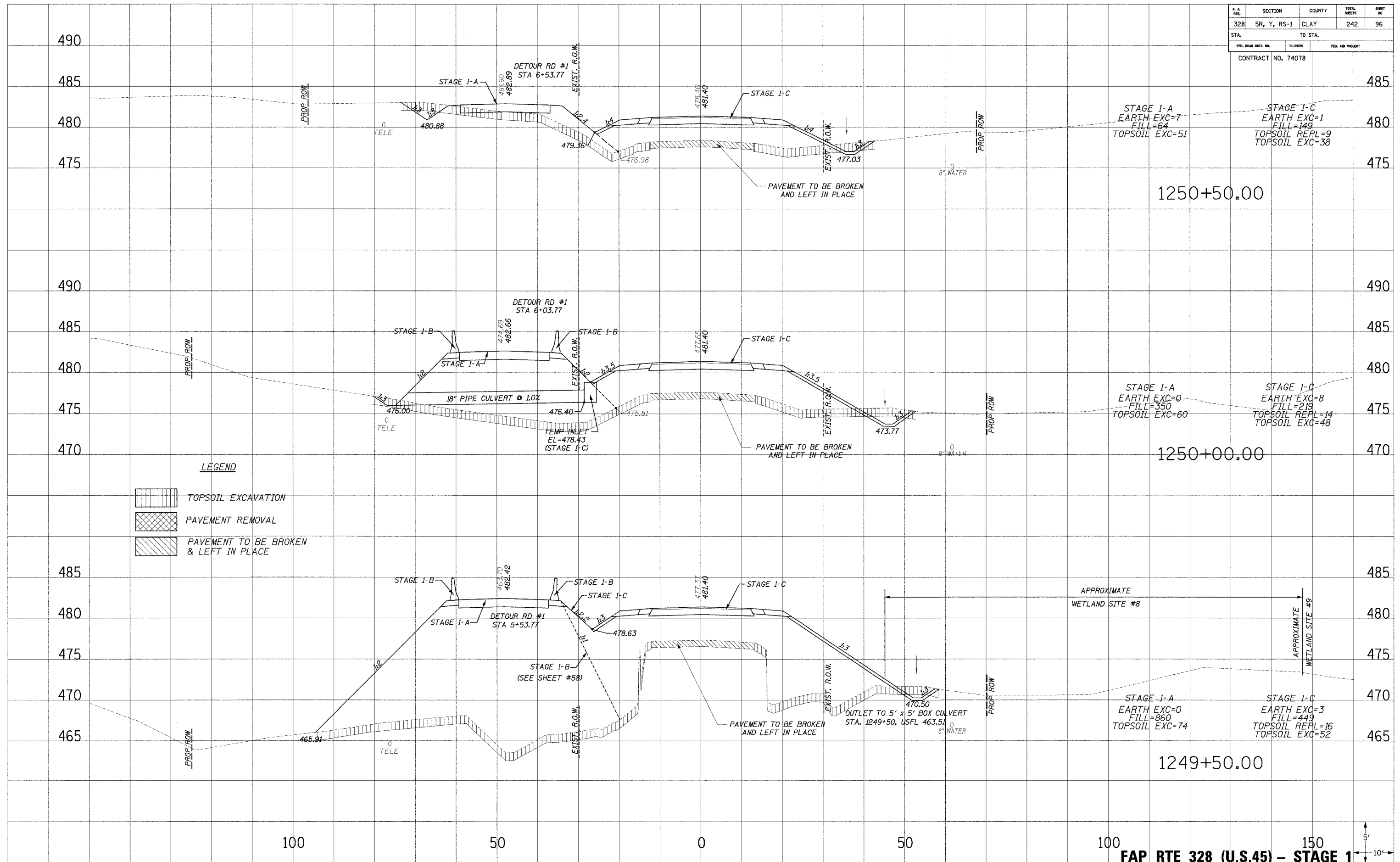


FAP RTE 328 (U.S.45) - STAGE 1



10/24/2009 8:53:09 AM
 J. B. BROWN

F.A. R/L	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
328	5R, Y, RS-1	CLAY	242	96
STA.		TO STA.		
FED. ROAD DIST. NO.		ILLINOIS	FED. AID PROJECT	
CONTRACT NO. 74078				



LEGEND

- TOPSOIL EXCAVATION
- PAVEMENT REMOVAL
- PAVEMENT TO BE BROKEN & LEFT IN PLACE




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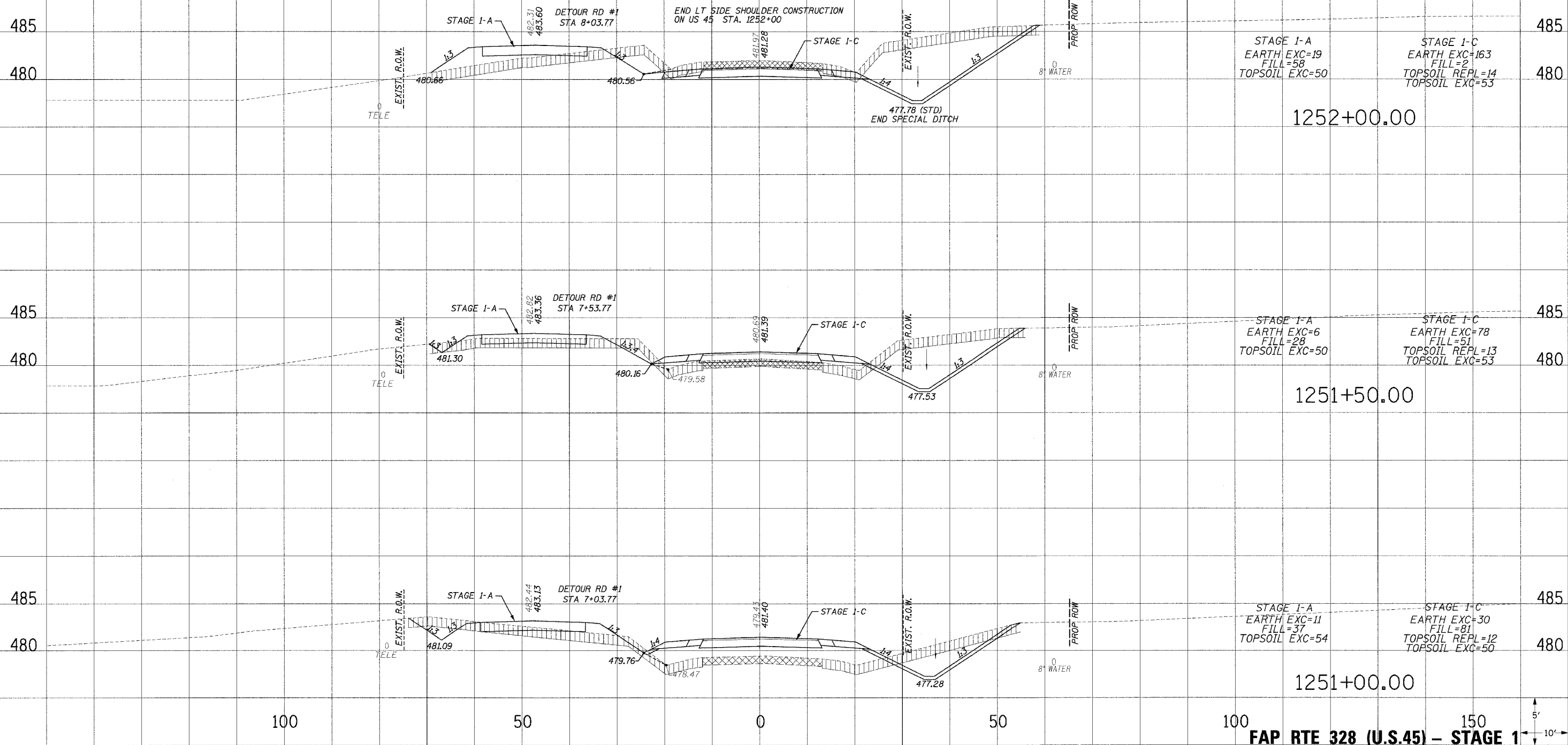
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 NOTE BOOK
 TEMPLATE
 AREAS
 CHECKED

FAP RTE 328 (U.S.45) - STAGE 1



F. A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
328	5R, Y, RS-1	CLAY	242	97
STA.		TO STA.		
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		
CONTRACT NO. 74078				

- LEGEND**
-  TOPSOIL EXCAVATION
 -  PAVEMENT REMOVAL
 -  PAVEMENT TO BE BROKEN & LEFT IN PLACE



FAP RTE 328 (U.S.45) – STAGE 1



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F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
328	SR, Y, RS-1	CLAY	242	98
STA.		TO STA.		
FED. ROAD DIST. NO.		ILLINOIS	FED. AID PROJECT	
CONTRACT NO. 74078				

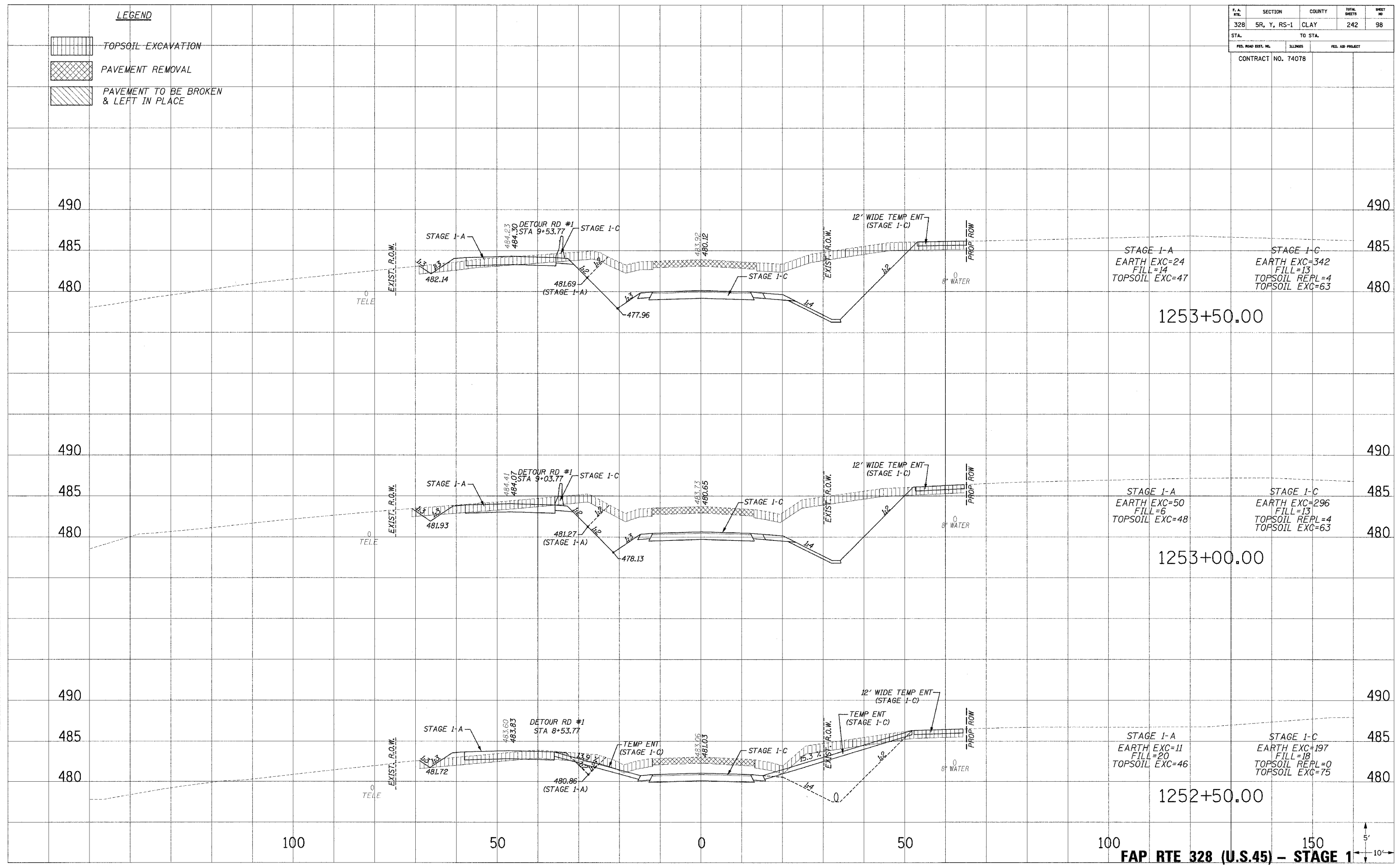
LEGEND

	TOPSOIL EXCAVATION
	PAVEMENT REMOVAL
	PAVEMENT TO BE BROKEN & LEFT IN PLACE

PLATES
 NOTE BOOK
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 NO.

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 AREAS CHECKED
 NO.






FAP RTE 328 (U.S.45) - STAGE 1

10/24/2005 8:55:30 AM

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328	5R, Y, RS-1	CLAY	242	99
STA.		TO STA.		
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		
CONTRACT NO. 74078				

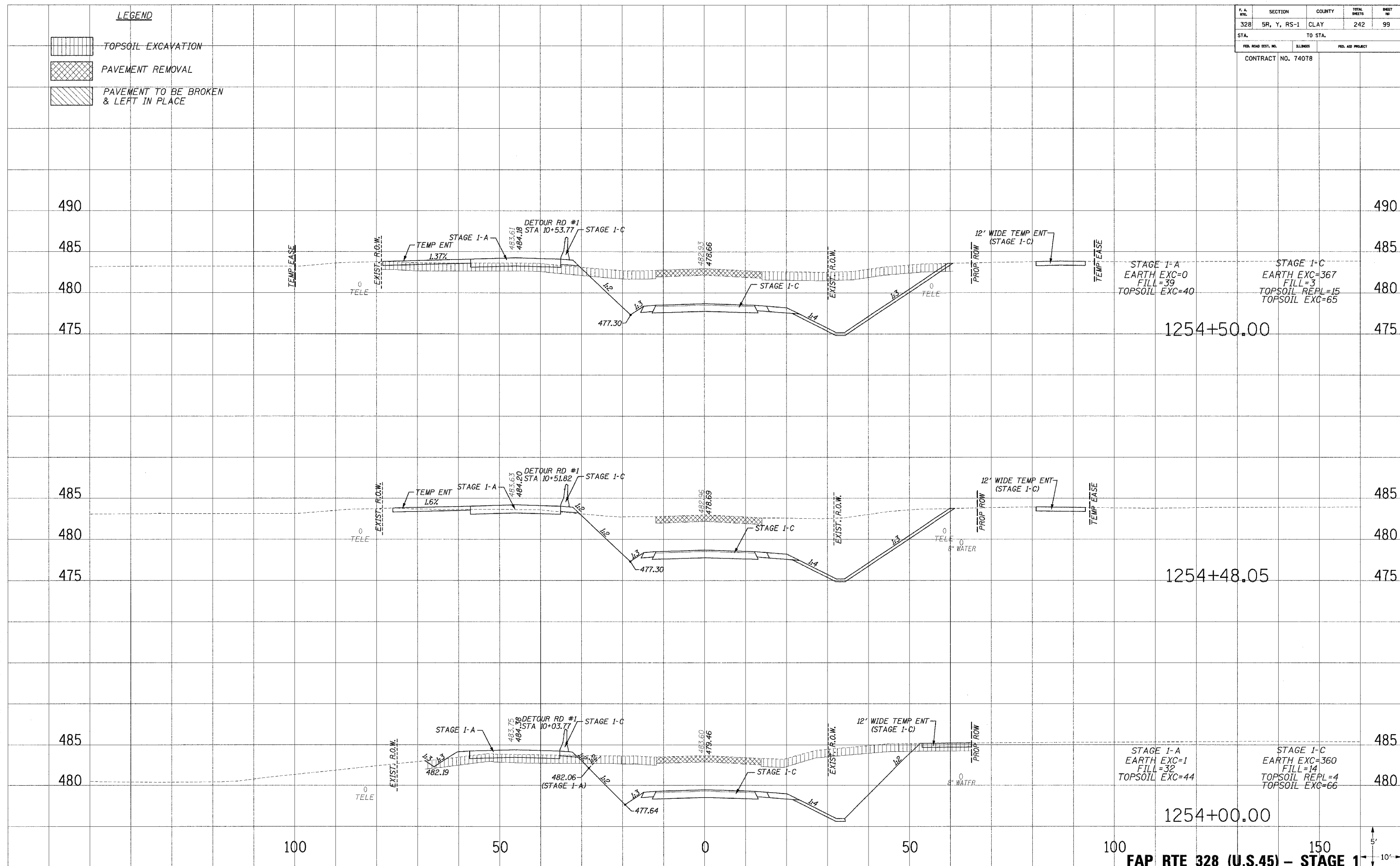
LEGEND

-  TOPSOIL EXCAVATION
-  PAVEMENT REMOVAL
-  PAVEMENT TO BE BROKEN & LEFT IN PLACE

REVISIONS
 NO. DATE BY
 1 10/24/00 POF B ES 00 AM

REVISIONS
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 1 10/24/00 POF B ES 00 AM

REVISIONS
 NO. DATE BY
 1 10/24/00 POF B ES 00 AM



STAGE I-A
 EARTH EXC=0
 FILL=39
 TOPSOIL EXC=40

STAGE I-C
 EARTH EXC=367
 FILL=3
 TOPSOIL REPL=15
 TOPSOIL EXC=65

STAGE I-A
 EARTH EXC=1
 FILL=32
 TOPSOIL EXC=44

STAGE I-C
 EARTH EXC=360
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 TOPSOIL REPL=4
 TOPSOIL EXC=66

STAGE I-A
 EARTH EXC=1
 FILL=32
 TOPSOIL EXC=44




STAGE I-C
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 TOPSOIL EXC=66

FAP RTE 328 (U.S.45) - STAGE 1



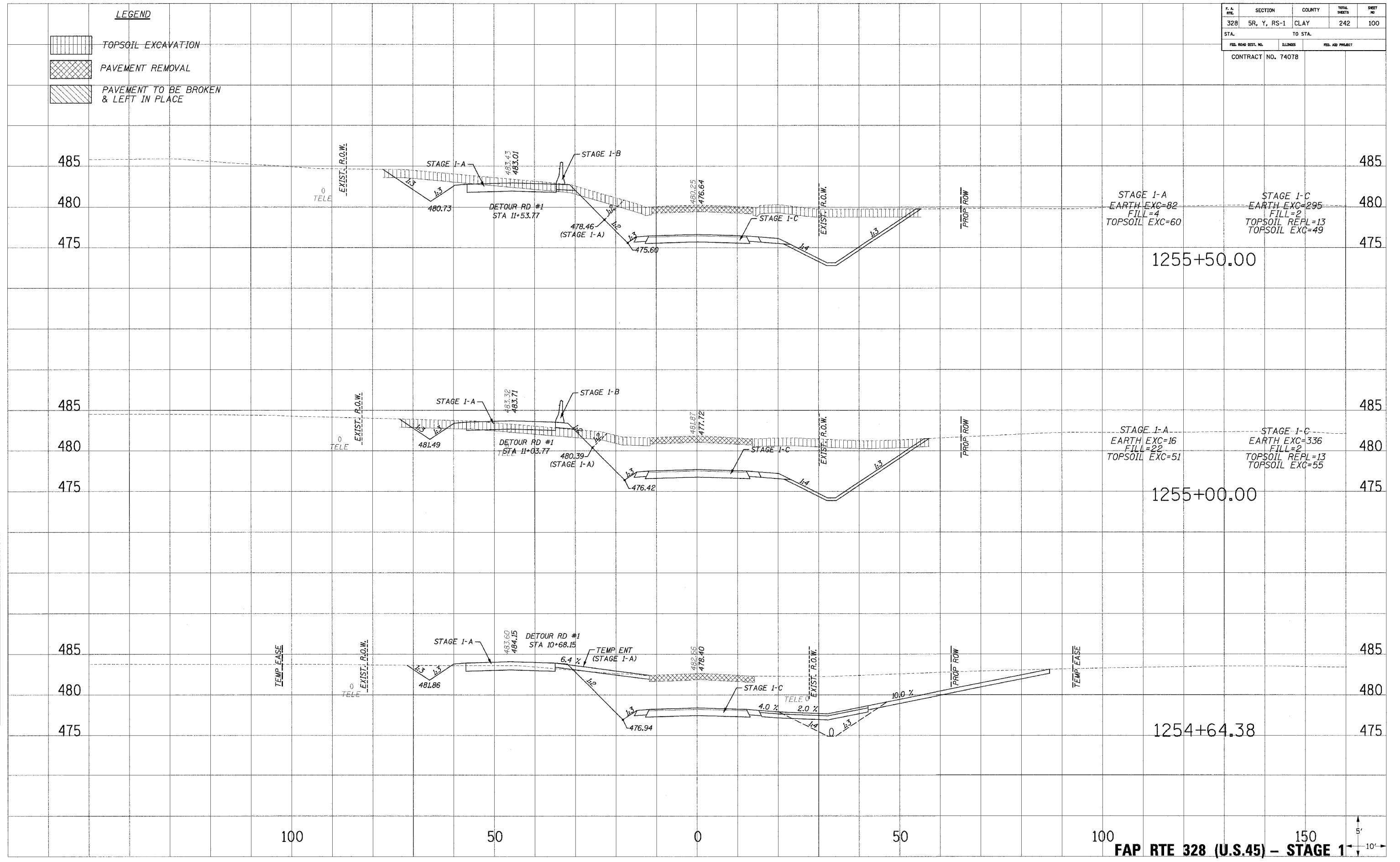
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F. A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
328	5R, Y, RS-1	CLAY	242	100
STA.		TO STA.		
FED. ROAD DIST. NO.		ILLINOIS	FED. AID PROJECT	
CONTRACT NO. 74078				

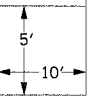
- LEGEND**
-  TOPSOIL EXCAVATION
 -  PAVEMENT REMOVAL
 -  PAVEMENT TO BE BROKEN & LEFT IN PLACE

PLATES
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FAP RTE 328 (U.S.45) - STAGE 1



10/24/2008 8:55:00 AM