

Project located
in CHEMUNG
TOWNSHIP

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION
DIVISION OF HIGHWAYS

PLANS FOR PROPOSED
HIGHWAY

F.A.P. 066 - (NORTHWEST HIGHWAY)
U.S. ROUTE 14 OVER LAWRENCE CREEK
SECTION: 21 (B&G) R
BOX CULVERT REPLACEMENTS
PROJECT: *BRF-0066(007)*
MCHENRY COUNTY
C-91-053-02

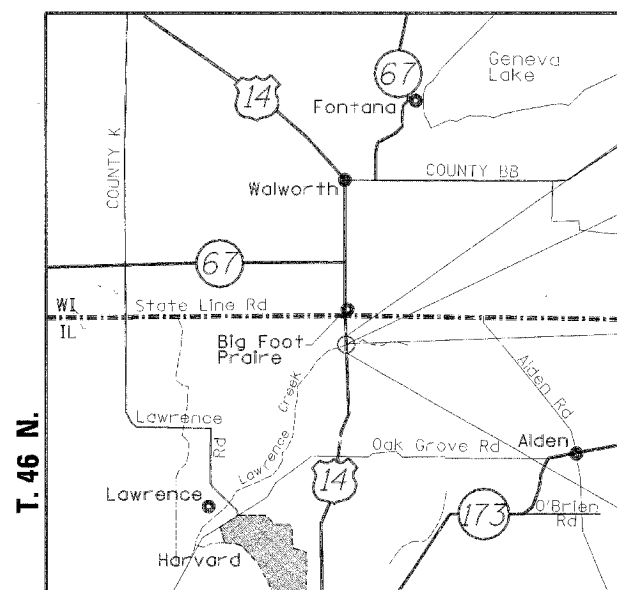
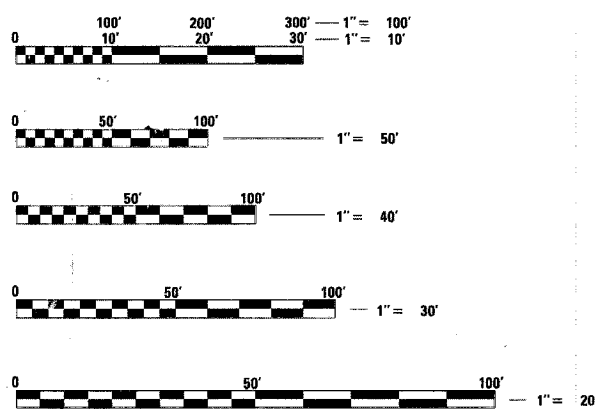
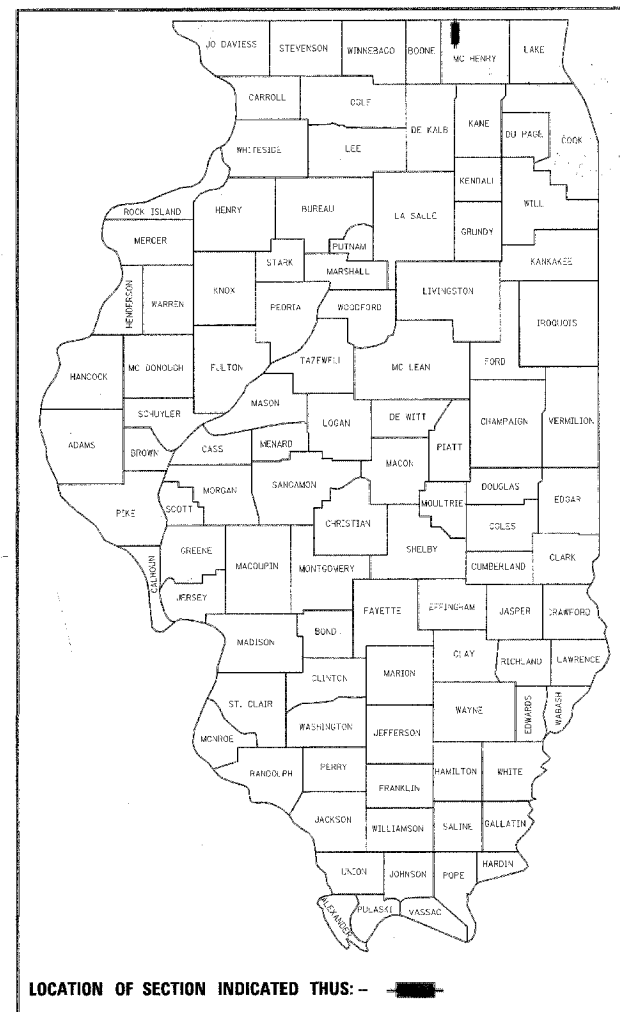
FOR INDEX OF SHEETS, SEE SHEET NO. 2

TRAFFIC DATA
2004 ADT: 6750 VEHICLES
2024 ADT: 8100 VEHICLES
2024 ADTT (SU) = 259
2024 ADTT (MU) = 381

POSTED SPEED LIMIT
55 mph

DESIGN DESIGNATION

6750(2004) OTHER PRINCIPAL ARTERIAL 2.52 (COMPOSITE-20)



R. 5 E.
CHEMUNG TOWNSHIP
LOCATION MAP
SCALE: 1:30000

Project Ends
Sta. 122 + 10
Improvement Ends
Sta. 115 + 10

Project Description

U. S. ROUTE 14 OVER LAWRENCE
CREEK CULVERT STA. 110+00
REMOVE & REPLACE EXISTING
BOX CULVERT.
EXISTING S. N. : 056-2000
NEW S. N. : 056-0074

U. S. ROUTE 14 OVER LAWRENCE
CREEK BYPASS STA. 107+00 REMOVE
EXISTING CIRCULAR CULVERT & BOX
CULVERT. REPLACE WITH A BOX
CULVERT. EXISTING S. N. : NONE
NEW S. N. : 056-0075

Improvement Begins
Sta. 104 + 00
Project Begins
Sta. 97 + 00



SEAL

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION
DIVISION OF HIGHWAYS

SUBMITTED *February 18, 20 05*
Dina O'Keefe/PP
DISTRICT ENGINEER

March 25, 20 05
Mike Hine/ED
ENGINEER OF DESIGN AND ENVIRONMENT

March 25, 20 05
Victor Maden/DO
DIRECTOR, DIVISION OF HIGHWAYS

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OF THE STATE OF ILLINOIS

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. 62391

GROSS AND NET LENGTH OF PROJECT = 1110 ft = 0.210 mi

Applied Technologies
CONSULTING ENGINEERS
300 NJRTH MILWAUKEE AVE. SUITE E
LAKE VILLA, ILLINOIS 60046
PHONE: 847-265-7325
FAX: 847-265-7327

DIST. 1 C DESIGN CONSULTANT SERVICES PROJECT MANAGER: CATHERINE KUBLE (708) 705-4269 3287C0V

INDEX OF SHEETS

SHEET NO.	DESCRIPTION
1	TITLE SHEET
2	INDEX OF SHEETS, HIGHWAY STANDARDS, GENERAL NOTES & COMMITMENTS
3-5	SUMMARY OF QUANTITIES
6	TYPICAL SECTIONS EXISTING
7-8	TYPICAL SECTIONS PROPOSED
9-11	SCHEDULE OF QUANTITIES
12-13	EARTHWORK SCHEDULE
14-15	ALIGNMENT, TIES & BENCHMARKS
16	EXISTING AND PROPOSED PLAN & PROFILE
17-19	MAINTENANCE OF TRAFFIC STAGE I
20-22	MAINTENANCE OF TRAFFIC STAGE II
23	PROPOSED EROSION & SEDIMENT CONTROL
24	EXISTING AND PROPOSED DRAINAGE & UTILITIES
25-27	RIGHT-OF-WAY PLAT
28	PROPOSED PAVEMENT MARKINGS & LANDSCAPING
29	TEMPORARY LIGHTING NOTES, LEGEND, BILL OF MATERIAL, AND ONE-LINE DIAGRAM.
30	TEMPORARY LIGHTING PLAN STAGE I
*31	TEMPORARY LIGHTING PLAN STAGE II DELETED
32	TEMPORARY LIGHTING DETAILS
STRUCTURE PLANS (SN 056-0074)	
33	GENERAL PLAN - STRUCTURE #056-0074
34	CONSTRUCTION DETAILS AND BILL OF MATERIALS
35	BOX CULVERT END SECTION DETAILS
36	CADION DETAILS DELETED
37	TEMPORARY CONCRETE BARRIER FOR STAGE CONSTRUCTION
38	BORING LOG - 1
39	BORING LOG - 2ABC
40	BORING LOG - 2D
STRUCTURE PLANS (SN 056-0075)	
41	GENERAL PLAN - STRUCTURE #056-0075
42	CONSTRUCTION DETAILS AND BILL OF MATERIALS
43	BOX CULVERT END SECTION DETAILS
44	TEMPORARY CONCRETE BARRIER FOR STAGE CONSTRUCTION
45	BORING LOG 3
46	BORING LOG 4
47	DISTRICT 1 DRIVEWAY DETAILS DISTANCE BETWEEN ROW AND FACE OF CURB/EDGE OF SHOULDER >= 4.5m (15') (BD-1)
48	DISTRICT 1 DRIVEWAY DETAILS DISTANCE BETWEEN ROW AND FACE OF CURB < 4.5m (15') (BD-2)
49	DISTRICT 1 BENCHING DETAIL FOR EMBANKMENT WIDENING (BD-51)
50	DISTRICT 1 TRAFFIC CONTROL AND PROTECTION FOR SIDE ROADS, INTERSECTIONS AND DRIVES (TC-10)
51	DISTRICT 1 TYPICAL APPLICATIONS RAISED REFLECTIVE PAVEMENT MARKERS (SNOW PLOW RESISTANT) (TC-11)
52	DISTRICT 1 TYPICAL PAVEMENT MARKINGS (TC-13)
53	DISTRICT 1 TEMPORARY INFORMATION SIGNING (TC-22)
54-61	TEMPORARY PAVEMENT CROSS SECTIONS
62-66	CROSS SECTIONS HIGHWAY STANDARDS

LIST OF HIGHWAY STANDARDS

000001-04	STANDARD SYMBOLS, ABBREVIATIONS AND PATTERNS
001001	AREAS OF REINFORCEMENT REBARS
001006	DECIMAL OF AN INCH AND OF A FOOT
280001-02	TEMPORARY EROSION CONTROL SYSTEMS
353001-01	PCC BASE COURSE WITH BITUMINOUS CONCRETE BINDER AND SURFACE COURSES
420001-05	PAVEMENT JOINTS
442201-01	CLASS C AND D PATCHES
482001	BITUMINOUS SHOULDER ADJACENT TO FLEXIBLE PAVEMENT
515001-02	NAME PLATE FOR BRIDGES
542401	METAL END SECTIONS FOR PIPE CULVERTS
606306-01	CORRUGATED PC CONCRETE MEDIANS
630001-05	STEEL PLATE BEAM GUARDRAIL
630101-05	GUARDRAIL MOUNTED ON EXISTING CULVERTS
630201-03	PCC/BITUMINOUS STABILIZATION AT STEEL PLATE BEAM GUARDRAIL
630301-03	SHOULDER WIDENING FOR TYPE I (SPECIAL) GUARDRAIL TERMINALS
635001	DELINEATORS
635006-02	REFLECTOR AND TERMINAL MARKER PLACEMENT
635011-01	REFLECTOR MARKER AND MOUNTING DETAILS
665001	WOVEN WIRE FENCE
701001-01	OFF-RD OPERATIONS, 2L, 2W, MORE THAN 4.5 m (15') AWAY
701006-02	OFF-RD OPERATIONS, 2L, 2W, 4.5 m (15') TO 600 MM (24") FROM PAVEMENT EDGE
701011-01	OFF-RD MOVING OPERATIONS, 2L, 2W, DAY ONLY
701301-02	LANE CLOSURE, 2L, 2W, SHORT TIME OPERATIONS
701311-02	LANE CLOSURE, 2L, 2W, MOVING OPERATIONS-DAY ONLY
701331-02	LANE CLOSURE, 2L, 2W, WITH RUN-AROUND, FOR SPEEDS >= 45 MPH
702001-05	TRAFFIC CONTROL DEVICES
704001-02	TEMPORARY CONCRETE BARRIER

GENERAL NOTES

- BEFORE STARTING ANY EXCAVATION, THE CONTRACTOR SHALL CALL "JULIE" AT 800-892-0123, FOR FIELD LOCATIONS OF BURIED ELECTRIC, TELEPHONE AND GAS FACILITIES (48 HOUR NOTIFICATION IS REQUIRED).
- THE CONTRACTOR SHALL COORDINATE CONSTRUCTION ACTIVITIES WITH UTILITY COMPANIES AND MCHENRY COUNTY.
- THE CONTRACTOR WILL NOT BE ALLOWED TO SET UP A YARD OR FIELD OFFICE ON STATE PROPERTY WITHOUT WRITTEN PERMISSION FROM THE DEPARTMENT.
-
- TWO WEEKS PRIOR TO PERMANENT PAVEMENT MARKING PLACEMENT, CONTACT AREA TRAFFIC FIELD ENGINEER, MS. DEBBIE HANLON AT (847) 438-2300.
- ELEVATIONS SHOWN ON THE PLANS ARE BASED ON I.D.O.T. DATUM.
- USE NO. 25 (#8) EPOXY-COATED TIE BARS CONFORMING TO ART.1006.10(B)(2) OF THE STANDARD SPECIFICATIONS FOR LONGITUDINAL CONSTRUCTION JOINT GROUTED-IN-PLACE TIE BAR AS SHOWN ON STATE STANDARD 420001 AND FOR TIEING PC CONCRETE WIDENING TO EXISTING CONCRETE PAVEMENT AS SHOWN ON THE PLANS. TIE BARS WILL NOT BE PAID FOR SEPARATELY BUT SHALL BE INCLUDED IN THE COST OF PAVEMENT ITEMS BEING CONSTRUCTED.
- TEMPORARY CONCRETE BARRIER TERMINAL SECTIONS WILL NOT BE REQUIRED FOR THIS CONTRACT. THE BARRIER UNIT AT EACH END OF THE INSTALLATION SHALL BE SECURED TO THE PAVEMENT OR SHOULDER USING ALL SIX ANCHORING PINS FOR F SHAPE OR ALL SIX DOWEL BARS FOR NEW JERSEY SHAPE. THE LAST BARRIER UNIT OF THE INSTALLATION SHALL BE PROTECTED WITH THE IMPACT ATTENUATOR SPECIFIED ON THE PLANS.

COMMITMENTS

- BASED UPON A FIELD CHECK CONDUCTED 12-9-99, THIS PROJECT QUALIFIES FOR A DISTRICT SIGNOFF WITH RESPECT TO SPECIAL WASTE. IF THE SCOPE OF WORK CHANGES AND/OR IF ADDITIONAL ROW/ TEMPORARY EASEMENTS IS REQUIRED, PLEASE CONTACT THE ENVIRONMENTAL STUDIES UNIT AT (847) 705-4101 TO DISCUSS ANY POTENTIAL IMPACTS.
- THE EXISTING WOOD FENCE THAT IS WITHIN THE TEMPORARY EASEMENT FROM STA. 102+60 TO STA. 104+00 RT SHALL REMAIN IN PLACE.
- THE DRIVEWAY RELOCATION FROM STA. 109+50 LT TO STA. 108+62 LT SHALL BE ONE OF THE FIRST ITEMS CONSTRUCTED ON THE PROJECT AND THE CONTRACTOR WILL COORDINATE THE WORK WITH THE PROPERTY OWNERS AT 11109 NORTH US HWY 14.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
066	21 (B&G) R	MCHENRY	65	2
STA.		TO STA.		
FED. ROAD DIST. NO.		ILLINOIS	FED. AID PROJECT	

#62391

REVISIONS	
NAME	DATE

ILLINOIS DEPARTMENT OF TRANSPORTATION
U.S. ROUTE 14 OVER LAWRENCE CREEK

INDEX OF SHEETS, HIGHWAY STANDARDS,
GENERAL NOTES & COMMITMENTS

SCALE: NTS
DRAWN BY CLG
CHECKED BY JJD

DATE 2-14-05

Applied Technologies

Rev.

SUMMARY OF QUANTITIES

CODE NO.	ITEM	UNIT	TOTAL	CONSTRUCTION TYPE CODE			
				ROAD	STA. 107+00 BOX CULVERT	STA. 110+00 BOX CULVERT	LIGHTING
20100110	TREE REMOVAL (6 TO 15 UNITS DIAMETER)	UNIT	6	6			
20100500	TREE REMOVAL, ACRES	ACRE	0.25	0.25			
20101100	TREE TRUNK PROTECTION	EACH	1	1			
20101350	TREE PRUNING (OVER 10 INCH DIAMETER)	EACH	1	1			
20200100	EARTH EXCAVATION	CU YD	2472	2472			
*20200200	ROCK EXCAVATION	CU YD	50		50		
20200410	EARTH EXCAVATION (SPECIAL)	CU YD	599	599			
20201200	REMOVAL AND DISPOSAL OF UNSUITABLE MATERIAL	CU YD	160		60	100	
20300100	CHANNEL EXCAVATION	CU YD	1245		780	465	
20400800	FURNISHED EXCAVATION	CU YD	21	21			
20700220	POROUS GRANULAR EMBANKMENT	CU YD	405		215	190	
*21101615	TOPSOIL FURNISH AND PLACE, 4"	SQ YD	8612	8612			
*25000210	SEEDING, CLASS 2A	ACRE	1.00	1.00			
*25000312	SEEDING, CLASS 4A	ACRE	0.75	0.75			
*25000400	NITROGEN FERTILIZER NUTRIENT	POUND	161	161			
*25000500	PHOSPHORUS FERTILIZER NUTRIENT	POUND	161	161			
*25000600	POTASSIUM FERTILIZER NUTRIENT	POUND	161	161			
*25100105	MULCH, METHOD 1	ACRE	1.75	1.75			
*25100630	EROSION CONTROL BLANKET	SQ YD	6552	6552			
*25200110	SODDING, SALT TOLERANT	SQ YD	2152	2152			
*25200200	SUPPLEMENTAL WATERING	UNIT	15	15			
28000250	TEMPORARY EROSION CONTROL SEEDING	POUND	2889	2889			
28000300	TEMPORARY DITCH CHECKS	EACH	24	24			
28000400	PERIMETER EROSION BARRIER	FOOT	2272	2272			
28100109	STONE RIPRAP, CLASS A5	SQ. YD	100	100			

SUMMARY OF QUANTITIES

CODE NO.	ITEM	UNIT	TOTAL	CONSTRUCTION TYPE CODE			
				ROAD	STA. 107+00 BOX CULVERT	STA. 110+00 BOX CULVERT	LIGHTING
28200100	FILTER FABRIC FOR USE WITH RIP RAP	SQ YD	107				
28200200	FILTER FABRIC	SQ YD	207	207			
28300400	AGGREGATE DITCH	TON	21	21			
28400100	CADIONS	CU YD	50			50	
31101200	SUB-BASE GRANULAR MATERIAL, TYPE B 4"	SQ YD	3613	3613			
35300400	PORTLAND CEMENT CONCRETE BASE COURSE 9"	SQ YD	2960	2960			
40300100	BITUMINOUS MATERIALS (PRIME COAT)	GAL	525	525			
40600300	AGGREGATE (PRIME COAT)	TON	8	8			
40600895	CONSTRUCTING TEST STRIP	EACH	2	2			
40601000	BITUMINOUS REPLACEMENT OVER PATCHES	TON	51	51			
44000100	PAVEMENT REMOVAL	SQ YD	7939	7939			
42001300	PROTECTIVE COAT	SQ YD	8	8			
44000140	BITUMINOUS REMOVAL OVER PATCHES 10"	SQ YD	592	592			
44000200	DRIVEWAY PAVEMENT REMOVAL	SQ YD	398	398			
44000500	COMBINATION CURB AND GUTTER REMOVAL	FOOT	193	193			
44201761	CLASS D PATCHES, TYPE I, 10 INCH	SQ YD	296	296			
44201765	CLASS D PATCHES, TYPE II, 10 INCH	SQ YD	296	296			
44300200	STRIP REFLECTIVE CRACK CONTROL TREATMENT	FOOT	2220	2220			
48101620	AGGREGATE SHOULDERS, TYPE B 10"	SQ YD	1547	1547			
48202800	BITUMINOUS SHOULDERS SUPERPAVE 10"	SQ YD	2285	2285			
50100300	REMOVAL OF EXISTING STRUCTURES NO. 1	EACH	1			1	
50100400	REMOVAL OF EXISTING STRUCTURES NO. 2	EACH	1		1		
50104300	CONCRETE HEADWALL REMOVAL	CU YD	1.5			1.5	
50105220	PIPE CULVERT REMOVAL	FOOT	177	146	31		

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
066	21 (B&G) R	McHENRY	66	3
STA.	TO STA.			
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		

#62391

REVISIONS	
NAME	DATE

ILLINOIS DEPARTMENT OF TRANSPORTATION
 U.S. ROUTE 14 OVER LAWRENCE CREEK
SUMMARY OF QUANTITIES

DATE: 2-15-05
 DRAWN BY CLG
 CHECKED BY JUD

* SPECIALTY ITEM

Rev. 4-14-05



3287SHT3.DGN

SUMMARY OF QUANTITIES

CODE NO.	ITEM	UNIT	TOTAL	CONSTRUCTION TYPE CODE			
				ROAD	STA. 107+00 BOX CULVERT	STA. 110+00 BOX CULVERT	LIGHTING
50200100	STRUCTURE EXCAVATION	CU YD	100		20	80	
51205200	TEMPORARY SHEET PILING	SQ FT	2005		1125	880	
51500100	NAME PLATES	EACH	2		1	1	
54001000	BOX CULVERT END SECTIONS	EACH	4		2	2	
54010507	PRECAST CONCRETE BOX CULVERT 5' x 7'	FOOT	60		60		
54010806	PRECAST CONCRETE BOX CULVERT 8' x 6'	FOOT	174		120	54	
54011205	PRECAST CONCRETE BOX CULVERT 12' x 5'	FOOT	108			108	
54104200	CORRUGATED STRUCTURAL PLATE PIPE ARCHES 51 SQ. FT	FOOT	38			38	
54200643	PIPE CULVERTS, TYPE 1, CORRUGATED STEEL OR ALUMINUM CULVERT PIPE 18"	FOOT	256	256			
54213873	STEEL END SECTIONS 18"	EACH	16	16			
60624600	CORRUGATED MEDIAN	SQ FT	76	76			
*63000005	STEEL PLATE BEAM GUARD RAIL, TYPE B	FOOT	850	850			
*63100167	TRAFFIC BARRIER TERMINAL TYPE 1, SPECIAL (TANGENT)	EACH	5	5			
*63100169	TRAFFIC BARRIER TERMINAL TYPE 1, SPECIAL (FLARED)	EACH	3	3			
63200305	STEEL PLATE BEAM GUARD RAIL REMOVAL	FOOT	313	313			
66500105	WOVEN WIRE FENCE, 4"	FOOT	181	181			
67000400	ENGINEER'S FIELD OFFICE, TYPE A	CAL MO	6	6			
67100100	MOBILIZATION	L SUM	1	1			
70100200	TRAFFIC CONTROL AND PROTECTION, STANDARD 701331	EACH	2	2			
70103815	TRAFFIC CONTROL SURVEILLANCE	CAL DA	180	180			
70300100	SHORT-TERM PAVEMENT MARKING	FOOT	792	792			

SUMMARY OF QUANTITIES

CODE NO.	ITEM	UNIT	TOTAL	CONSTRUCTION TYPE CODE			
				ROAD	STA. 107+00 BOX CULVERT	STA. 110+00 BOX CULVERT	LIGHTING
70300220	TEMPORARY PAVEMENT MARKING - LINE 4"	FOOT	8030	8030			
70300520	PAVEMENT MARKING TAPE, TYPE III, 4"	FOOT	9970	9970			
70301000	WORKZONE PAVEMENT MARKING REMOVAL	SQ FT	6266	6266			
70400100	TEMPORARY CONCRETE BARRIER	FOOT	1505	1505			
70400200	RELOCATE TEMPORARY CONCRETE BARRIER	FOOT	400	400			
*78000200	THERMOPLASTIC PAVEMENT MARKING -LINE 4"	FOOT	6293	6293			
*78100100	RAISED REFLECTIVE PAVEMENT MARKER	EACH	32	32			
*78200530	BARRIER WALL MARKERS, TYPE C	EACH	152	152			
78300100	PAVEMENT MARKING REMOVAL	SQ FT	1771	1771			
78300200	RAISED REFLECTIVE PAVEMENT MARKER REMOVAL	EACH	18	18			
*80700140	GROUND ROD, 5/8" DIA. X 10 FT	EACH	10				10
80800500	TEMPORARY WOOD POLE, 60 FT, CLASS 4	EACH	1				1
*80800525	TEMPORARY WOOD POLE, 60 FT., CLASS 4, 15 FT. MAST ARM	EACH	14				14
80801120	UNIT BUOT, WITH 3 1/2 NO. 2 AND 1/2 NO. 4 GROUND, 200Y (OLD TYPE USE) 1/4" DIA. POLYETHYLENE	FOOT	20				20
*81800100	AERIAL CABLE, 3-1/2 NO. 3/0 ALUMINUM, WITH MESSENGER WIRE	FOOT	3000				3000
*82103400	LUMINAIRE, SODIUM VAPOR, HORIZONTAL MOUNT, 400 WATT	EACH	14				14
*A2002566	TREE, CARPINUS CAROLINIANA (AMERICAN HORN-BEAM), 6' HEIGHT, SHRUB FORM, BALLED AND BURLAPPED	EACH	8	8			
*B2000566	TREE, AMELANCHIER CANADENSIS (SHADBLOW SERVICEBERRY), 6' HEIGHT, SHRUB FORM, BALLED AND BURLAPPED	EACH	12	12			
B4100110	REMOVAL OF TEMPORARY LIGHTING UNITS	EACH	14				14

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
066	21 (B&G) R	McHENRY	66	4
STA.	TO STA.			
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT	#62391	

* SPECIALTY ITEM

Rev. 4-14-05



REVISIONS	
NAME	DATE

ILLINOIS DEPARTMENT OF TRANSPORTATION
U.S. ROUTE 14 OVER LAWRENCE CREEK
SUMMARY OF QUANTITIES

DATE: 2-15-05

DRAWN BY CLG
CHECKED BY JDD

3287SHT3.DGN

SUMMARY OF QUANTITIES

CODE NO.	ITEM	UNIT	TOTAL	CONSTRUCTION TYPE CODE			
				ROAD	STA. 107+00 BOX CULVERT	STA. 110+00 BOX CULVERT	LIGHTING
*C2012772	SHRUB, VIBURNUM PRUNIFOLIUM, (BLACKHAW VIBURNUM), 6' HEIGHT. BALLED AND BURLAPPED	EACH	12	12			
X0322256	TEMPORARY INFORMATION SIGNING	SQ FT	51.4	51.4			
X0323000	0 CIRCUIT E10/120 PANEL	EACH	1				
X0323001	METER SOCKET PER 00M ED	EACH	1				
X0323002	TEMPORARY ELECTRICAL SERVICE CONNECTION	EACH	1				
X0323153	ELECTRIC CABLE IN CONDUIT, GROUND, NO. 6-16 (GREEN)	FOOT	300				300
X0712400	TEMPORARY PAVEMENT	SQ YD	4855	4855			
X3550300	BITUMINOUS BASE COURSE SUPERPAVE 6"	SQ YD	315	315			
X3550500	BITUMINOUS BASE COURSE SUPERPAVE 8"	SQ YD	369	369			
X4021000	TEMPORARY ACCESS (PRIVATE ENTRANCE)	EACH	3	3			
X4022000	TEMPORARY ACCESS (COMMERCIAL ENTRANCE)	EACH	3	3			
X4024000	TEMPORARY ACCESS (FIELD ENTRANCE)	EACH	2	2			
X4066414	BITUMINOUS CONCRETE SURFACE COURSE, SUPERPAVE, MIX "C", N50	TON	78	78			
X4066424	BITUMINOUS CONCRETE SURFACE COURSE, SUPERPAVE, MIX "D", N50	TON	250	250			
X4066765	LEVELING BINDER (MACHINE METHOD), SUPERPAVE N50	TON	250	250			
X0110112	REMOVE TEMPORARY LIGHTING UNITS	L SUM	1				
Z0013798	CONSTRUCTION LAYOUT	L SUM	1	1			
Z002800	FENCE REMOVAL	FOOT	214	214			
Z0024100	FILTER FABRIC	SQ YD	101	107			
Z0030255	IMPACT ATTENUATORS, TEMPORARY (FULLY REDIRECTIVE, NARROW), TEST LEVEL 2	EACH	8	8			
Z0030320	IMPACT ATTENUATORS, RELOCATE (FULLY REDIRECTIVE), TEST LEVEL 2	EACH	8	8			

△ SFTY-3U

SUMMARY OF QUANTITIES

CODE NO.	ITEM	UNIT	TOTAL	CONSTRUCTION TYPE CODE			
				ROAD	STA. 107+00 BOX CULVERT	STA. 110+00 BOX CULVERT	LIGHTING
XX004900	TURF REINFORCEMENT MAT	SQ YD	75	75			
XX001452	CONCRETE MASONRY BULKHEAD	EACH	1			1	
*X8210405	LUMINAIRE SHIELD	EACH	1				1
Z0076600	TRAINEES	HR	1,000	1,000			
B0400100	ELECTRIC SERVICE INSTALLATION	EACH	1				1
B0400200	ELECTRIC UTILITY SERVICE CONNECTION	L SUM	1				1
X0323574	MAINTENANCE OF LIGHTING SYSTEM	CAL MO	6				6
X0324949	100 A FUSED DISCONNECT SWITCH NEMA 4X ENCLOSURE	EACH	1				1

© 4080

* SPECIALTY ITEM

△ Rev. 4-14-05



REVISIONS	
NAME	DATE

ILLINOIS DEPARTMENT OF TRANSPORTATION
U.S. ROUTE 14 OVER LAWRENCE CREEK
SUMMARY OF QUANTITIES

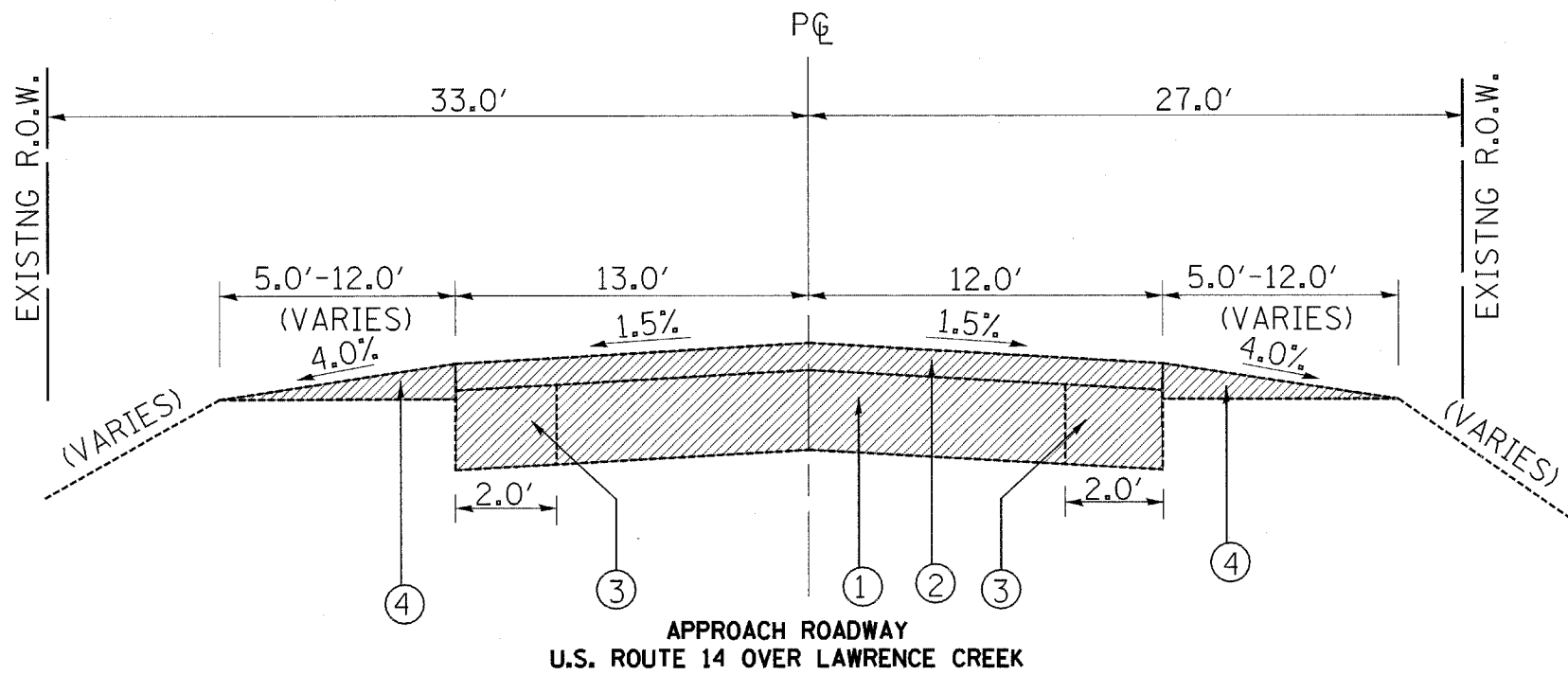
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CHECKED BY JJD

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
066	21 (B&G) R	McHENRY	66	5
STA.	TO STA.			
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		

#62391

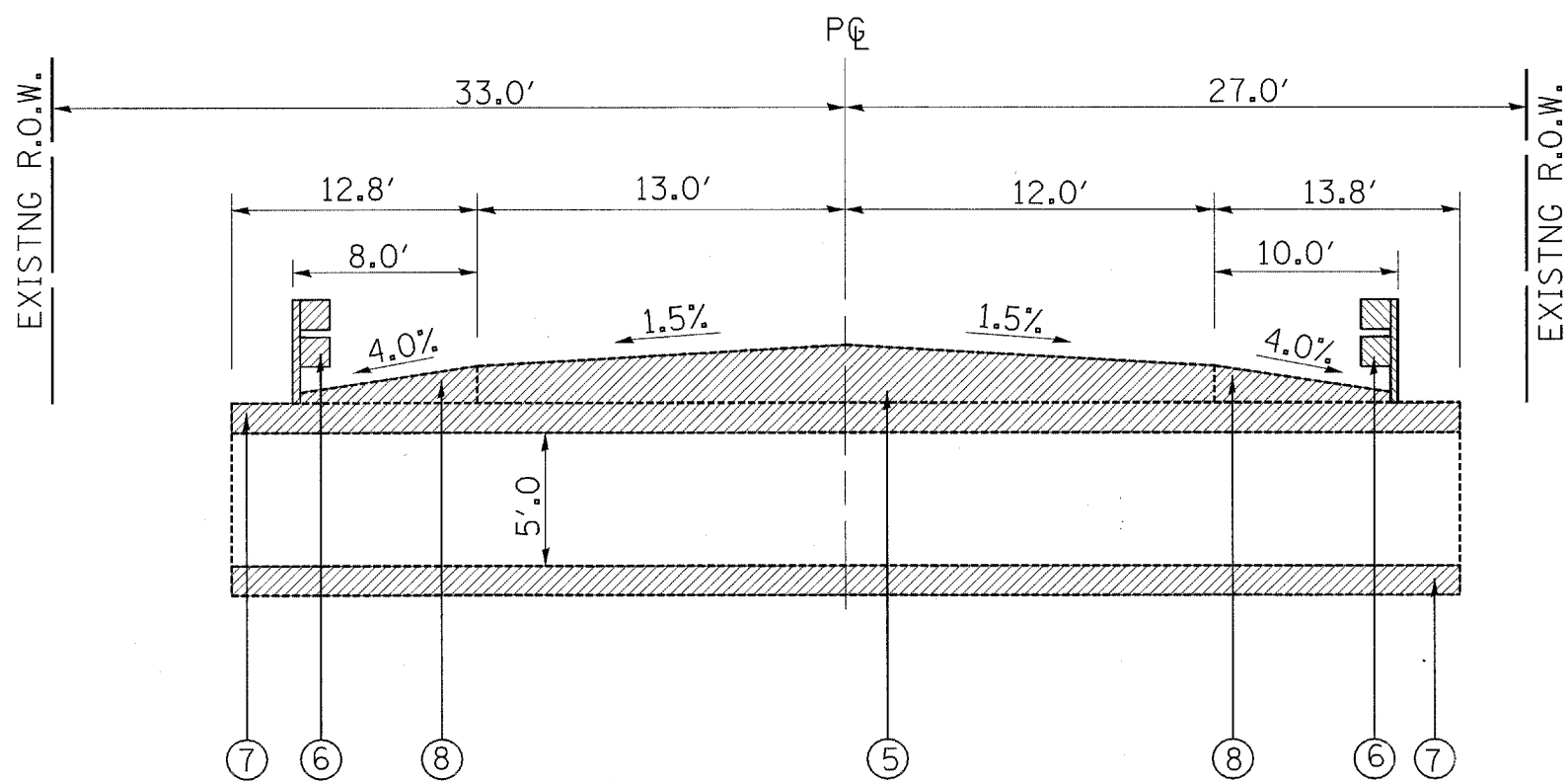
3287SHT3.DGN



APPROACH ROADWAY
U.S. ROUTE 14 OVER LAWRENCE CREEK
 STA. 104+00 TO STA. 109+89
 STA. 110+11 TO STA. 115+10

TYPICAL SECTION LEGEND

- ① -EXISTING PCC BASE COURSE, 9''+/-
- ② -EXISTING BITUMINOUS SURFACE COURSE, 6''+/-
- ③ -EXISTING PCC CONCRETE WIDENING, 9''+/-
- ④ -EXISTING AGGREGATE SHOULDER
- ⑤ -EXISTING BITUMINOUS SURFACE COURSE. THICKNESS VARIES FROM 6'' TO 10''. PAID AS PAVEMENT REMOVAL
- ⑥ -EXISTING GUARDRAIL
- ⑦ -EXISTING BOX CULVERT
- ⑧ -EXISTING BITUMINOUS SHOULDER



CULVERT
U.S. ROUTE 14 OVER LAWRENCE CREEK
 STA. 109+89 TO STA. 110+11

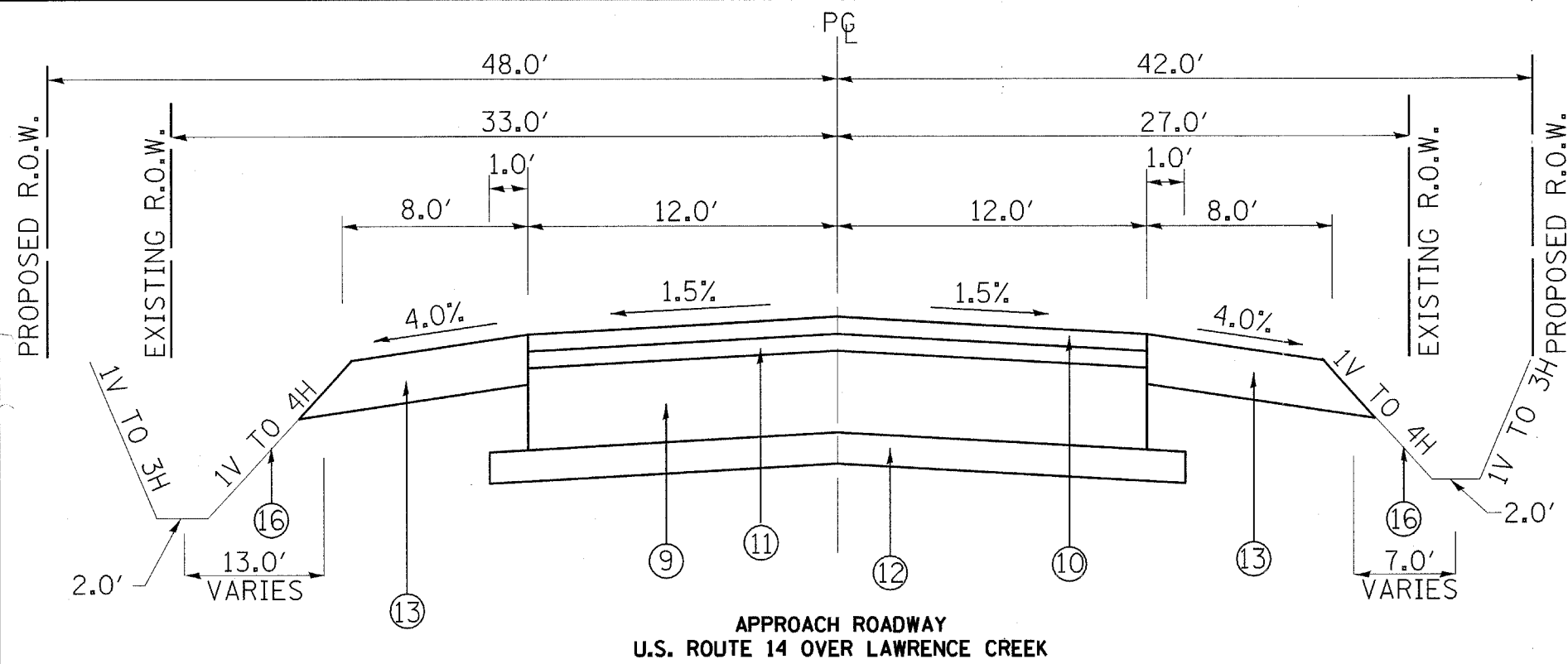
REVISIONS	
NAME	DATE

ILLINOIS DEPARTMENT OF TRANSPORTATION
 U.S. ROUTE 14 OVER LAWRENCE CREEK
TYPICAL SECTIONS EXISTING

SCALE: NTS
 DRAWN BY CLG
 CHECKED BY JJD
 DATE: 2-07-05

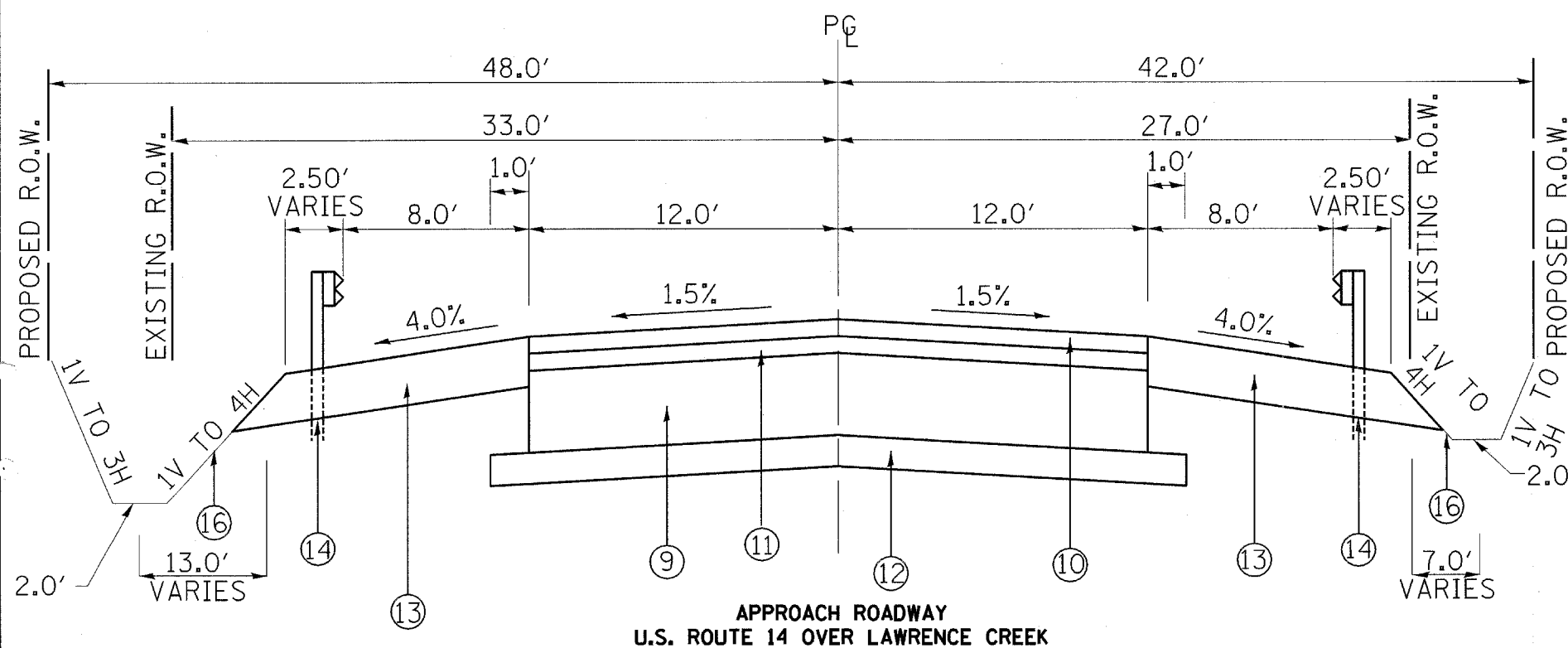


#62391



APPROACH ROADWAY
U.S. ROUTE 14 OVER LAWRENCE CREEK

STA. 104+00 TO STA. 105+50
STA. 111+45 TO STA. 115+10



APPROACH ROADWAY
U.S. ROUTE 14 OVER LAWRENCE CREEK

STA. 105+50 TO STA. 106+87.25
STA. 107+12.75 TO STA. 109+83.4
STA. 110+16.6 TO STA. 111+45

TYPICAL SECTION LEGEND

- ⑨ -PROPOSED PORTLAND CEMENT CONCRETE BASE COURSE, 9"
- ⑩ -PROPOSED BITUMINOUS CONCRETE SURFACE COURSE, SUPERPAVE, MIX "D," N50, 1 1/2"
- ⑪ -PROPOSED LEVELING BINDER (MACHINE METHOD), SUPERPAVE, N50, 1 1/2"
- ⑫ -PROPOSED SUB-BASE GRANULAR MATERIAL, TYPE B 4" VARIES 14" TO 21" OVER CULVERTS, PAID AS 4"
- ⑬ -PROPOSED BITUMINOUS SHOULDERS SUPERPAVE 10"
- ⑭ -PROPOSED STEEL PLATE BEAM GUARD RAIL, TYPE B
- ⑮ -PROPOSED PRECAST CONCRETE BOX CULVERT
- ⑯ -PROPOSED SEEDING, CLASS 2A, SEEDING, CLASS 4A, & SODDING, SALT TOLERANT

REVISIONS	
NAME	DATE

ILLINOIS DEPARTMENT OF TRANSPORTATION
U.S. ROUTE 14 OVER LAWRENCE CREEK
TYPICAL SECTIONS PROPOSED

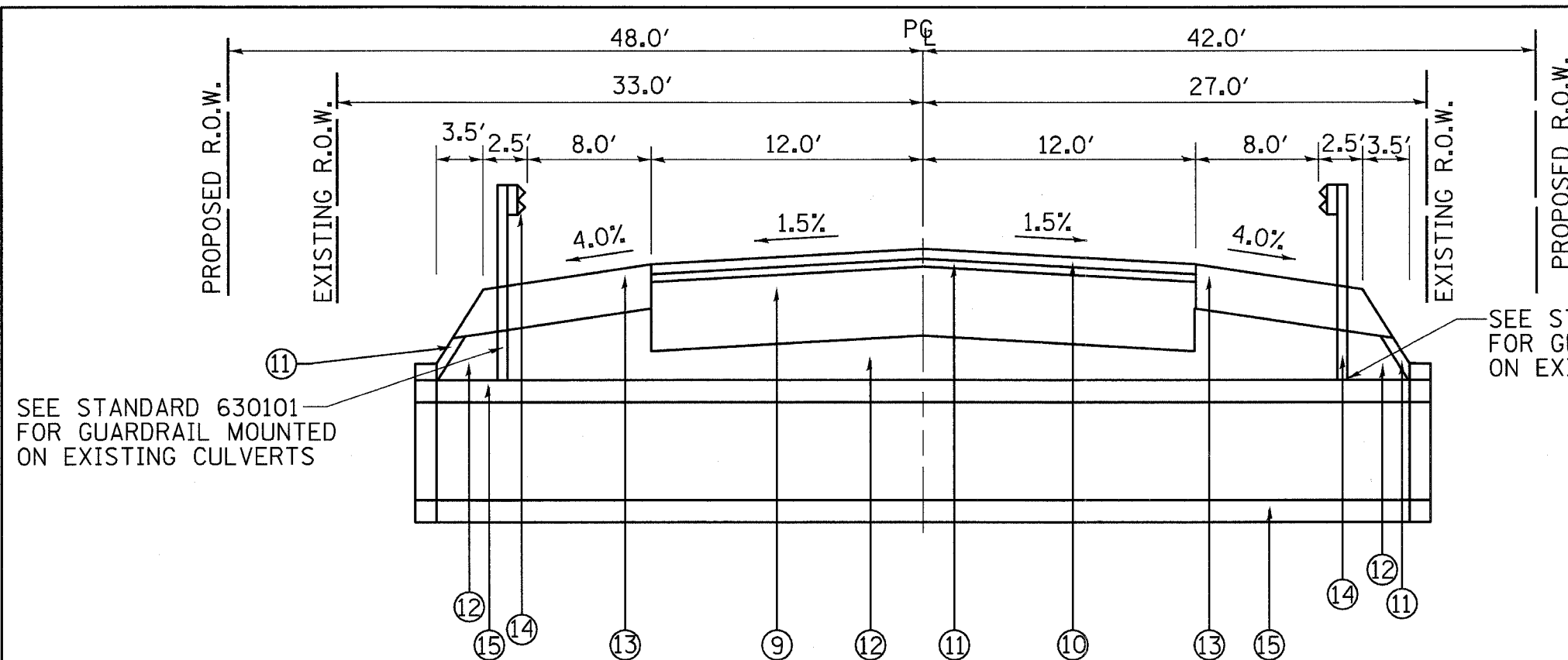
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DATE: 2-07-05



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F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
066	21 (B&G) R	McHENRY	66	8
STA.	TO STA.			
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		

#62391



SEE STANDARD 630101 FOR GUARDRAIL MOUNTED ON EXISTING CULVERTS

SEE STANDARD 630101 FOR GUARDRAIL MOUNTED ON EXISTING CULVERTS

TYPICAL SECTION LEGEND

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- ⑮ -PROPOSED PRECAST CONCRETE BOX CULVERT

CULVERT
U.S. ROUTE 14 OVER LAWRENCE CREEK
STA. 106+87.25 TO STA. 107+12.75
STA. 109+83.4 TO STA. 110+16.6

BITUMINOUS MIXTURE REQUIREMENTS

MIXTURE USES	AC/PG	RAP MAX	DESIGN AIR VOIDS
BITUMINOUS CONCRETE SURFACE COURSE, SUPERPAVE, MIX "C", N50 (DRIVEWAYS, MEDIAN)	PG 64-22	15%	4% @ 50 GYR
BITUMINOUS CONCRETE SURFACE COURSE, SUPERPAVE, MIX "D", N50	PG 64-22	15%	4% @ 50 GYR
BITUMINOUS SHOULDERS, SUPERPAVE (BITUMINOUS BASE COURSE, SUPERPAVE)	PG 58-22	50%	2% @ 30 GYR
TEMPORARY PAVEMENT	PG 58-22	50%	2% @ 50 GYR
LEVELING BINDER (MACHINE METHOD) SUPERPAVE N50 (BINDER COURSE US 14)	PG 64-22	15%	4% @ 50 GYR
BINDER, IL-19mm (PAVEMENT PATCHING)	PG 64-22	15%	4% @ 70 GYR
BITUMINOUS BASE COURSE, SUPERPAVE (DRIVEWAYS)	PG 58-22	50%	2% @ 50 GYR

NOTE: THE UNIT WEIGHT USED TO CALCULATE BITUMINOUS MIX QUANTITIES IS 112 LBS./SQ YD/INCH.

REVISIONS	
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KWN	3-31-05

ILLINOIS DEPARTMENT OF TRANSPORTATION
 U.S. ROUTE 14 OVER LAWRENCE CREEK
TYPICAL SECTIONS PROPOSED
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3287TYP2.DGN

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
066	21 (B&G) R	McHENRY	66	9
STA.		TO STA.		
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		

#62391

TREE REMOVAL (6 TO 15 UNITS DIAMETER)

STA	UNIT
109+78, 38 RT LT	6
TOTAL	6

TREE REMOVAL, ACRES

STA TO STA	ACRE
104+00 TO 106+10 LT	0.25
TOTAL	0.25

TREE TRUNK PROTECTION

STA	EACH
108+85, 45 RT	1
TOTAL	1

TREE PRUNING (OVER 10 INCH DIAMETER)

STA	EACH
108+85 LT	1
TOTAL	1

SEEDING, CLASS 2A

STA TO STA	ACRE
98+00 TO 102+53 RT	0.11
104+50 TO 106+20 LT	0.05
110+17 TO 113+47 LT	0.33
111+41 TO 113+41 RT	0.04
113+57 TO 116+31 RT	0.06
114+00 TO 120+10 LT	0.30
116+46 TO 121+00 RT	0.11
TOTAL	1.00

SEEDING, CLASS 4A

STA TO STA	ACRE
99+00 TO 104+33 LT	0.24
104+50 TO 106+87 LT	0.15
106+09 TO 106+87 RT	0.04
110+08 TO 113+41 RT	0.18
113+57 TO 116+31 RT	0.14
TOTAL	0.75

NITROGEN FERTILIZER NUTRIENT

STA TO STA	POUND
98+00 TO 106+87 RT	26
99+00 TO 106+87 LT	29
107+09 TO 109+81 LT	16
107+11 TO 109+96 RT	8
110+08 TO 121+00 RT	36
110+17 TO 120+10 LT	46
TOTAL	161

PHOSPHORUS FERTILIZER NUTRIENT

STA TO STA	POUND
98+00 TO 106+87 RT	26
99+00 TO 106+87 LT	29
107+09 TO 109+81 LT	16
107+11 TO 109+96 RT	8
110+08 TO 121+00 RT	36
110+17 TO 120+10 LT	46
TOTAL	161

POTASSIUM FERTILIZER NUTRIENT

STA TO STA	POUND
98+00 TO 106+87 RT	26
99+00 TO 106+87 LT	29
107+09 TO 109+81 LT	16
107+11 TO 109+96 RT	8
110+08 TO 121+00 RT	36
110+17 TO 120+10 LT	46
TOTAL	161

MULCH, METHOD 1

STA TO STA	ACRE
98+00 TO 121+00	1.75
TOTAL	1.75

EROSION CONTROL BLANKET

STA TO STA	SQ YD
98+00 TO 102+53 RT	430
99+00 TO 104+33 LT	843
104+50 TO 106+87 LT	684
106+09 TO 106+87 RT	140
110+08 TO 113+41 RT	796
110+17 TO 113+47 LT	1292
113+57 TO 116+31 RT	721
114+00 TO 120+10 LT	1220
116+46 TO 121+00 RT	426
TOTAL	6552

SODDING, SALT TOLERANT

STA TO STA	SQ YD
102+68 TO 104+86 RT	583
105+03 TO 106+09 RT	255
107+09 TO 108+56 LT	332
107+11 TO 107+44 RT	75
107+80 TO 109+96 RT	406
108+71 TO 109+81 LT	501
TOTAL	2152

SUPPLEMENTAL WATERING

STA	UNIT
UNDISTRIBUTED	15
TOTAL	15

TEMPORARY EROSION CONTROL SEEDING

STA TO STA	POUND
98+00 TO 121+00	2889
TOTAL	2889

TEMPORARY DITCH CHECKS

STA	EACH
104+00 RT	1
104+25 RT	1
104+49 RT	1
105+50 RT	1
106+43 RT	1
106+58 RT	1
106+66 RT	1
106+75 RT	1
106+83 RT	1
107+67 LT	1
108+08 LT	1
108+77 LT	1
108+92 LT	1
109+00 RT	1
109+50 RT	1
110+28 LT	1
110+32 RT	1
111+00 LT	1
111+00 RT	1
112+00 LT	1
112+00 RT	1
113+00 RT	1
114+00 RT	1
114+48 RT	1
TOTAL	24

PERIMETER EROSION BARRIER

STA TO STA	FEET
104+00 TO 104+86 RT	85
104+00 TO 104+34 LT	50
104+50 TO 106+88 LT	249
105+03 TO 106+88 RT	202
107+08 TO 108+53 LT	130
107+10 TO 107+45 RT	32
107+80 TO 109+99 RT	213
108+70 TO 109+85 LT	224
110+06 TO 113+41 RT	390
110+16 TO 111+74 LT	223
111+91 TO 113+47 LT	188
113+57 TO 115+10 RT	153
114+29 TO 115+10 LT	133
TOTAL	2272

FILTER FABRIC

STA TO STA	SQ YD
107+12 TO 107+30	50
109+75 TO 109+94	57
110+00 CULVERT	74
TOTAL	181

AGGREGATE DITCH

STA TO STA	TON
107+12 TO 107+30	10
109+75 TO 109+94	11
TOTAL	21

SUB-BASE GRANULAR MATERIAL, TYPE B, 4"

STA TO STA	SQ YD
104+00 TO 106+87.25	894
106+87.25 TO 107+12.75	148
107+12.75 TO 109+83.4	843
109+83.4 TO 110+16.6	192
110+16.6 TO 115+10	1536
TOTAL	3613

PORTLAND CEMENT CONCRETE BASE COURSE, 9"

STA TO STA	SQ YD
104+00 TO 115+10	2960
TOTAL	2960

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REVISIONS	
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ILLINOIS DEPARTMENT OF TRANSPORTATION
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 DATE: 2-17-05



F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
066	21 (B&C) R	McHENRY	66	10
STA.		TO STA.		
FED. ROAD DIST. NO.		ILLINOIS	FED. AID PROJECT	

#62391

BITUMINOUS MATERIALS (PRIME COAT)

STA TO STA	GAL
104+00 TO 115+10	525
TOTAL	525

AGGREGATE (PRIME COAT)

STA TO STA	TONS
104+00 TO 115+10	8
TOTAL	8

CONSTRUCTING TEST STRIP

LOCATION	EACH
LEVELING BINDER	1
BITUMINOUS CONCRETE SURFACE COURSE	1
TOTAL	2

BITUMINOUS REPLACEMENT OVER PATCHES

LOCATION	TON
UNDISTRIBUTED	51
TOTAL	51

PROTECTIVE COAT

STA	SQ YD
113+74 LT	8
TOTAL	8

PAVEMENT REMOVAL

STA TO STA	SQ YD
MOT STAGE I	
104+00 TO 115+10 LT	2714
MOT STAGE II	
104+00 TO 115+10 RT	370
97+00 TO 122+10 RT TEMP. PAVEMENT	4063
POST MOT STAGE II	
99+00 TO 120+10 LT TEMP. PAVEMENT	792
TOTAL	7939

BITUMINOUS REMOVAL OVER PATCHES 10"

LOCATION	SQ YD
UNDISTRIBUTED	592
TOTAL	592

DRIVEWAY PAVEMENT REMOVAL

STA	SQ YD
102+62 RT	42
107+66 RT	123
109+05 RT	96
109+50 LT	77
116+41 RT	60
TOTAL	398

COMBINATION CURB AND GUTTER REMOVAL

STA TO STA	FOOT
107+29 TO 107+48 RT	30
107+81 TO 108+87 RT	135
109+19 TO 109+40 RT	28
TOTAL	193

CLASS D PATCHES, TYPE I, 10"

LOCATION	SQ YD
UNDISTRIBUTED	296
TOTAL	296

CLASS D PATCHES, TYPE II, 10"

LOCATION	SQ YD
UNDISTRIBUTED	296
TOTAL	296

STRIP REFLECTIVE CRACK CONTROL TREATMENT

STA TO STA	FOOT
104+00 TO 115+10 (2)	2200
TOTAL	2200

AGGREGATE SHOULDERS, TYPE B 10"

STA TO STA (SHOULDER RESTORATION AFTER MOT)	SQ YD
97+00 TO 104+00 RT	452
99+00 TO 104+00 LT	278
115+10 TO 120+00 RT	289
115+10 TO 120+10 LT	339
120+00 TO 122+10 RT	189
TOTAL	1547

BITUMINOUS SHOULDERS SUPERPAVE 10"

STA TO STA	SQ YD
104+00 TO 115+10 RT	987
104+00 TO 115+10 LT	987
105+95 TO 107+90 LT GUARDRAIL	86
106+10 TO 107+47 RT GUARDRAIL	62
108+13 TO 111+08 RT GUARDRAIL	84
108+92 TO 110+93 LT GUARDRAIL	79
TOTAL	2285

PIPE CULVERT REMOVAL

STA	FOOT
97+50 RT	26
102+60 RT	34
104+65 LT	28
104+95 RT	26
107+00	31
116+40 RT	32
TOTAL	177

PIPE CULVERTS, TYPE I, CORRUGATED STEEL OR ALUMINUM CULVERT PIPE 18"

STA	FOOT
97+50 RT	24
102+62 RT	38
104+50 LT	26
105+00 RT	28
107+66 RT	44
111+82 LT	34
113+50 RT	24
116+41 RT	38
TOTAL	256

STEEL END SECTIONS, 18"

STA	EACH
97+50 RT	2
102+62 RT	2
104+50 LT	2
105+00 RT	2
107+66 RT	2
111+82 LT	2
113+50 RT	2
116+41 RT	2
TOTAL	16

CORRUGATED MEDIAN

STA	SQ FT
113+71 LT	76
TOTAL	76

STEEL PLATE BEAM GUARD RAIL, TYPE B

STA TO STA	FOOT
105+95 TO 107+90 LT	197
106+10 TO 107+47 RT	153
108+13 TO 111+08 RT	297
108+92 TO 110+93 LT	203
TOTAL	850

TRAFFIC BARRIER TERMINAL, TYPE I, SPECIAL (TANGENT)

STA	EACH
105+95 LT	1
107+47 RT	1
108+13 RT	1
108+92 LT	1
111+08 RT	1
TOTAL	5

TRAFFIC BARRIER TERMINAL, TYPE I, SPECIAL (FLARED)

STA	EACH
106+10 RT	1
107+90 LT	1
110+93 LT	1
TOTAL	3

STEEL PLATE BEAM GUARD RAIL REMOVAL

STA TO STA	FOOT
106+26 TO 107+94 LT	168
109+62 TO 110+42 RT	80
109+65 TO 110+30 LT	65
TOTAL	313

WOVEN WIRE FENCE, 4"

STA TO STA	FOOT
104+51 TO 106+32 LT	181
TOTAL	181

ENGINEER'S FIELD OFFICE, TYPE A

LOCATION	CAL MO
PROJECT	6
TOTAL	6

TRAFFIC CONTROL & PROTECTION, STANDARD 701331

LOCATION	EACH
STAGE I	1
STAGE II	1
TOTAL	2

TRAFFIC CONTROL SURVEILLANCE

LOCATION	CAL DA
PROJECT	180
TOTAL	180

SHORT TERM PAVEMENT MARKING

STA TO STA	FOOT
PRIME MATERIAL	
98+60 TO 120+50 YELLOW CENTERLINE	200
104+00 TO 115+10 WHITE EDGE LINE (2)	96
BINDER COURSE	
98+60 TO 120+50 YELLOW CENTERLINE	200
104+00 TO 115+10 WHITE EDGE LINE (2)	96
SURFACE COURSE	
104+00 TO 115+10 YELLOW CENTERLINE	104
104+00 TO 115+10 WHITE EDGE LINE (2)	96
TOTAL	792

TEMPORARY PAVEMENT MARKING-LINE 4"

STA TO STA	FOOT
STAGE I	
104+00 TO 115+10 DOUBLE YELLOW	2220
97+00 TO 122+10 RT WHITE EDGELINE	2510
104+00 TO 115+10 LT WHITE EDGE LINE	1110
STAGE II	
98+60 to 120+50 WHITE EDGELINE	2190
TOTAL	8030

PAVEMENT MARKING TAPE, TYPE III, 4"

STA TO STA	FOOT
STAGE I	
97+00 TO 102+00 DOUBLE YELLOW	1000
117+10 TO 122+10 DOUBLE YELLOW	1000
97+00 TO 104+00 LT WHITE EDGELINE	700
115+00 TO 122+10 LT WHITE EDGE LINE	700
STAGE II	
98+60 to 120+50 DOUBLE YELLOW	4380
98+60 to 120+50 RT WHITE EDGELINE	2190
TOTAL	9970

WORK ZONE PAVEMENT MARKING REMOVAL

STA TO STA	SQ FT
STAGE I	
97+00 TO 122+10 DOUBLE YELLOW	1673
97+00 TO 122+10 WHITE EDGELINE (2)	1673
STAGE II	
98+60 TO 120+50 DOUBLE YELLOW	1460
98+60 TO 120+50 WHITE EDGELINE (2)	1460
TOTAL	6266

TEMPORARY CONCRETE BARRIER

STA TO STA	FOOT
STAGE I	
106+75 TO 109+25, 10 RT	250
109+75 TO 110+25, 10 RT	50
106+75 TO 107+25, 36 RT	50
109+75 TO 110+25, 36 RT	50
SUBTOTAL STAGE I	400
STAGE II	
98+60 TO 104+20, LT TAPER	560
105+00 TO 107+45, 5 RT	245
107+80 TO 112+90, 5 RT	510
112+90 TO 113+40, TAPER	50
113+60 TO 115+00, TAPER	140
SUBTOTAL STAGE II	1505
MAXIMUM BARRIER REQUIRED	1505



REVISIONS	
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KWN	4-11-05

ILLINOIS DEPARTMENT OF TRANSPORTATION
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F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
066	21 (B&G) R	McHENRY	66	11
STA.		TO STA.		
FED. ROAD DIST. NO.		ILLINOIS	FED. AID PROJECT	

#62391

FENCE REMOVAL

STA TO STA	FOOT
104+51 TO 106+32 LT	214
TOTAL	214

IMPACT ATTENUATORS, TEMPORARY (FULLY REDIRECTIVE, NARROW) TEST LEVEL 2

STA	EACH
STAGE I	
106+75 RT	1
106+75 LT	1
107+25 RT	1
109+25 RT	1
109+75 RT	1
109+75 LT	1
110+25 RT	1
110+25 LT	1
TOTAL	8

IMPACT ATTENUATORS, RELOCATE (FULLY REDIRECTIVE) TEST LEVEL 2

STA	EACH
STAGE II	
98+60 LT	1
104+20 LT	1
105+00 RT	1
107+45 RT	1
107+80 RT	1
113+40 RT	1
113+60 RT	1
115+00 RT	1
TOTAL	8

TURF REINFORCEMENT MAT

STA TO STA	SQ YD
107+15 TO 107+48 RT	75
TOTAL	75

BITUMINOUS CONCRETE SURFACE COURSE, SUPERPAVE, MIX "C," N50

STA	TONS
97+50 RT	6
102+62 RT	6
104+50 LT	6
104+95 RT	6
107+66 RT	5
108+62 LT	6
111+82 LT	9
113+50 RT	6
113+74 LT	21
116+41 RT	7
TOTAL	78

BITUMINOUS CONCRETE SURFACE COURSE, SUPERPAVE, MIX "D," N50

STA TO STA	TONS
104+00 TO 115+10	250
TOTAL	250

LEVELING BINDER (MACHINE METHOD), SUPERPAVE N50

STA TO STA	TONS
104+00 TO 115+10	248
106+87.25 TO 107+12.75 RT	1
106+87.25 TO 107+12.75 LT	1
109+83.4 TO 110+16.6 RT	1
109+83.4 TO 110+16.6 LT	1
TOTAL	252

TEMPORARY TRAFFIC BARRIER TERMINAL, TYPE 3 SPECIAL

STA	EACH
STAGE I	
106+75, 10 RT	1
106+75, 36 RT	1
107+25, 36 RT	1
109+25, 10 RT	1
109+75, 10 RT	1
109+75, 36 RT	1
110+25, 10 RT	1
110+25, 36 RT	1
STAGE II	
106+75, 5 RT	1
107+25, 5 RT	1
109+75, 5 RT	1
110+25, 5 RT	1
TOTAL	12

CONSTRUCTION LAYOUT

LOCATION	LUMP SUM
PROJECT	1

TEMPORARY INFORMATION SIGNING

LOCATION	SQ FT
2 UNDISTRIBUTED	51.4
TOTAL	51.4

TEMPORARY PAVEMENT

LOCATION	SQ YD
STAGE I DETOUR	4063
STAGE II DETOUR	792
TOTAL	4855

TEMPORARY ACCESS (PRIVATE ENTRANCE)

STA	EACH
102+62 RT	1
108+62 LT	1
116+41 RT	1
TOTAL	3

TEMPORARY ACCESS (COMMERCIAL ENTRANCE)

STA	EACH
107+66 RT	1
110+60 LT	1
113+74 LT	1
TOTAL	3

TEMPORARY ACCESS (FIELD ENTRANCE)

STA	EACH
104+66	1
104+98	1
TOTAL	2

BITUMINOUS BASE COURSE SUPERPAVE 6"

STA	SQ YD
102+62 RT	52
104+50 LT	52
104+95 RT	50
108+62 LT	50
113+50 RT	50
116+41 RT	61
TOTAL	315

BITUMINOUS BASE COURSE SUPERPAVE 8"

STA	SQ YD
107+66 RT	76
111+82 LT	80
113+74 LT	213
TOTAL	369

TREE, CARPINUS CAROLINIANA (AMERICAN HORNBEAM), 6' HEIGHT, SHRUB FORM, BALLED AND BURLAPPED

STA	EACH
106+00 37' LT	1
106+20 37' LT	1
106+40 37' LT	1
106+34 36' RT	1
106+54 36' RT	1
110+68 34' RT	1
110+88 34' RT	1
111+08 34' RT	1
TOTAL	8

TREE, AMELANCHIER CANADENSIS (SHADBLOW SERVICEBERRY), 6' HEIGHT, SHRUB FORM, BALLED AND BURLAPPED

STA	EACH
104+46 32' RT	1
104+66 32' RT	1
105+26 32' RT	1
107+46 35' LT	1
107+66 35' LT	1
107+86 35' LT	1
108+06 35' LT	1
109+70 32' LT	1
112+31 38' LT	1
112+51 38' LT	1
112+71 38' LT	1
112+91 38' LT	1
TOTAL	12

SHRUB, VIBURNUM PRUNIFOLIUM (BLACKHAWK VIBURNUM), 6' HEIGHT, BALLED AND BURLAPED

STA	EACH
104+22 38' LT	1
104+88 38' LT	1
105+08 38' LT	1
108+28 38' LT	1
109+16 40' LT	1
109+36 40' LT	1
111+00 48' LT	1
111+20 48' LT	1
114+54 37' RT	1
114+62 32' LT	1
114+74 37' RT	1
114+82 32' LT	1
TOTAL	12

RELOCATE TEMPORARY CONCRETE BARRIER

STA TO STA	FOOT
STAGE I TO STAGE II	400
TOTAL	400

THERMOPLASTIC PAVEMENT MARKING-LINE 4"

STA TO STA	FOOT
97+00 TO 122+10 SINGLE YELLOW DASHED	628
97+00 TO 103+45 SINGLE YELLOW SOLID	645
97+00 TO 122+10 WHITE EDGELINE (2)	5020
TOTAL	6293

RAISED REFLECTIVE PAVEMENT MARKER

STA TO STA	EACH
97+00 TO 122+10	32
TOTAL	32

BARRIER WALL MARKERS, TYPE C

LOCATION	EACH
STAGE I	32
STAGE II	120
TOTAL	152

PAVEMENT MARKING REMOVAL

STA TO STA	SQ FT
97+00 TO 104+00	467
118+10 TO 122+10	467
97+00 TO 122+10 RT	837
TOTAL	1771

RAISED REFLECTIVE PAVEMENT MARKER REMOVAL

STA TO STA	EACH
97+00 TO 104+00	9
115+10 TO 122+10	9
TOTAL	18

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REVISIONS	
NAME	DATE
KWN	4-11-05

ILLINOIS DEPARTMENT OF TRANSPORTATION
U.S. ROUTE 14 OVER LAWRENCE CREEK
SCHEDULE OF QUANTITIES

DRAWN BY CLG
CHECKED BY JJD

DATE: 2-17-05

#62391

STAGE I

EARTHWORK SCHEDULE							
LOCATION	EARTH EXCAVATION	ROCK EXCAVATION	UNSUITABLE OR UNSTABLE MATERIAL	EXCAVATION TO BE USED FOR FURNISH EMBANKMENT	FILL ADJUSTED FOR SHRINKAGE	EARTHWORK BALANCE WASTE (+) OR SHORTAGE (-)	TOPSOIL FURNISH AND PLACE
	CU YARDS	CU YARDS	CUBIC YARDS	CUBIC YARDS	CUBIC YARDS	CUBIC YARDS	SQUARE YARDS
STA 104+00 TO 106+83.42	317	0	---	317	196	+121	788
CULVERT	0	0	---	0	24	-24	0
STA 107+16.58 TO 109+83.42	103	0	---	103	538	-435	833
CULVERT	0	50	---	0	23	-23	0
STA 110+16.58 TO 115+10	579	0	---	579	177	+402	1653
TOTAL	999	50	---	999	956	+43	3274

STAGE I

TEMPORARY PAVEMENT EARTHWORK SCHEDULE							
LOCATION	EARTH EXCAVATION	ROCK EXCAVATION	UNSUITABLE OR UNSTABLE MATERIAL	EXCAVATION TO BE USED FOR FURNISH EMBANKMENT	FILL ADJUSTED FOR SHRINKAGE	EARTHWORK BALANCE WASTE (+) OR SHORTAGE (-)	TOPSOIL FURNISH AND PLACE
	CU YARDS	CU YARDS	CUBIC YARDS	CUBIC YARDS	CUBIC YARDS	CUBIC YARDS	SQUARE YARDS
STA 97+00 TO 106+83.42	326	0	---	326	14	+312	761
CULVERT	10	0	---	10	21	-11	0
STA 107+16.58 TO 109+83.42	172	0	---	172	0	+172	0
CULVERT	3	0	---	3	18	-15	0
STA 110+16.58 TO 122+10	289	0	---	289	128	+161	839
TOTAL	800	0	---	800	180	+620	1600

SWELL FACTOR = 5%

SHRINK FACTOR = 15%

3287EarthworkSchedule.dgn

REVISIONS	
NAME	DATE

ILLINOIS DEPARTMENT OF TRANSPORTATION
U.S. ROUTE 14 OVER LAWRENCE CREEK
EARTHWORK SCHEDULE



DRAWN BY CLG
CHECKED BY JJD
DATE: 2-15-05

#62391

STAGE II

EARTHWORK SCHEDULE							
LOCATION	EARTH EXCAVATION	ROCK EXCAVATION	UNSUITABLE OR UNSTABLE MATERIAL	EXCAVATION TO BE USED FOR FURNISH EMBANKMENT	FILL ADJUSTED FOR SHRINKAGE	EARTHWORK BALANCE WASTE (+) OR SHORTAGE (-)	TOPSOIL FURNISH AND PLACE
	CU YARDS	CU YARDS	CUBIC YARDS	CUBIC YARDS	CUBIC YARDS	CUBIC YARDS	SQUARE YARDS
STA 104+00 TO 106+83.42	237	0	---	237	68	+169	613
CULVERT	0	0	---	0	24	-24	0
STA 107+16.58 TO 109+83.42	57	0	---	57	217	-160	406
CULVERT	0	0	---	0	6	-6	0
STA 110+16.58 TO 115+10	233	0	---	233	275	-42	1187
TOTAL	526	0	---	526	590	-64	2206

STAGE II

TEMPORARY PAVEMENT EARTHWORK SCHEDULE							
LOCATION	EARTH EXCAVATION	ROCK EXCAVATION	UNSUITABLE OR UNSTABLE MATERIAL	EXCAVATION TO BE USED FOR FURNISH EMBANKMENT	FILL ADJUSTED FOR SHRINKAGE	EARTHWORK BALANCE WASTE (+) OR SHORTAGE (-)	TOPSOIL FURNISH AND PLACE
	CU YARDS	CU YARDS	CUBIC YARDS	CUBIC YARDS	CUBIC YARDS	CUBIC YARDS	SQUARE YARDS
STA 98+60 TO 106+83.42	85	0	---	85	0	+85	778
CULVERT	0	0	---	0	0	0	0
STA 107+16.58 TO 109+83.42	0	0	---	0	0	0	0
CULVERT	0	0	---	0	0	0	0
STA 110+16.58 TO 120+50	62	0	---	62	3	+59	754
TOTAL	147	0	---	147	3	+144	1532

SHRINK FACTOR = 15%

3287EarthworkSchedule.dgn

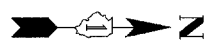
REVISIONS	
NAME	DATE

ILLINOIS DEPARTMENT OF TRANSPORTATION
 U.S. ROUTE 14 OVER LAWRENCE CREEK
EARTHWORK SCHEDULE
 DRAWN BY CLG
 CHECKED BY JJD
 DATE: 2-15-05

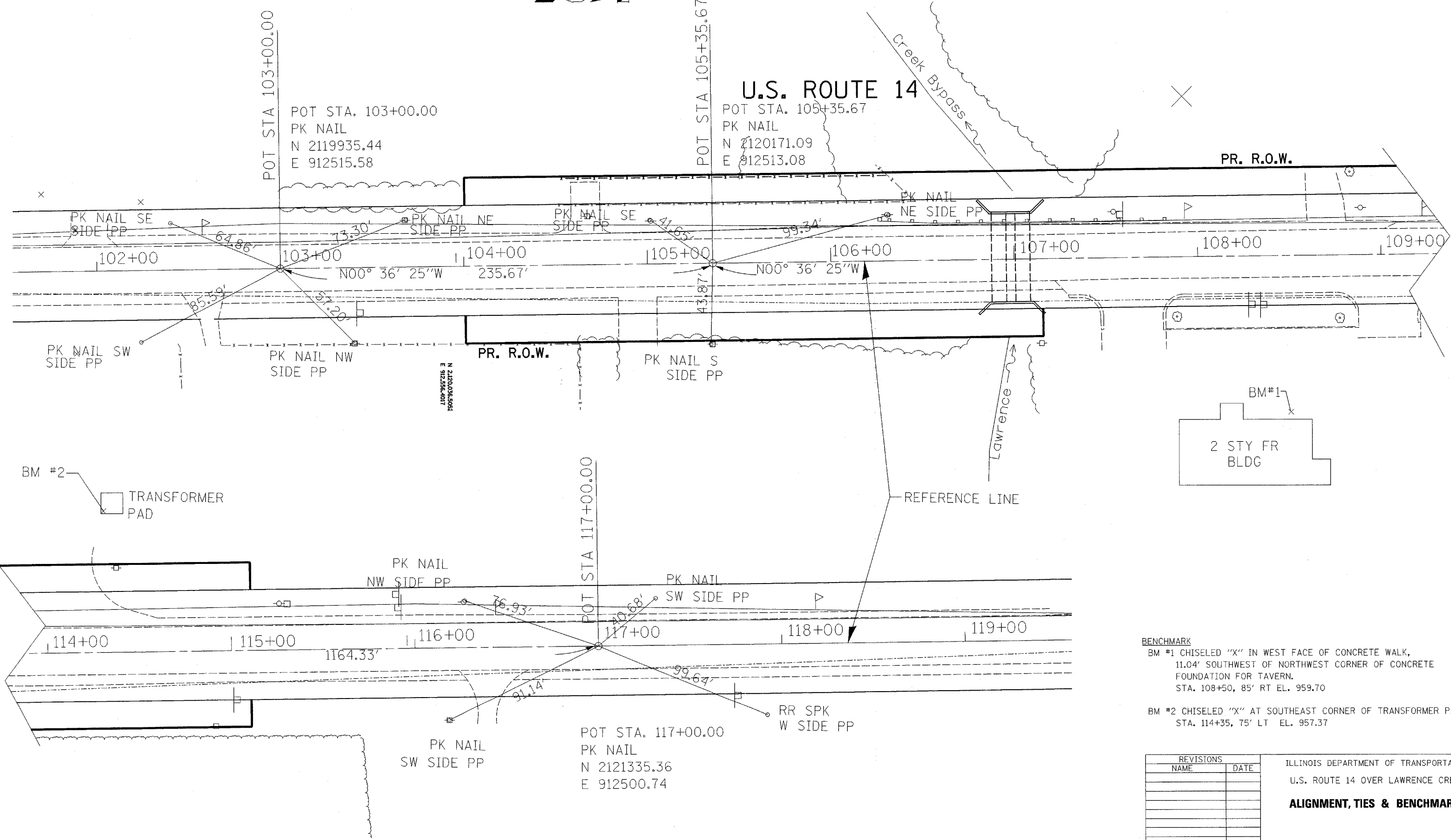


F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
066	21 (B&G) R	McHENRY	66	14
STA.		TO STA.		
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		

#62391



U.S. ROUTE 14



BENCHMARK
 BM #1 CHISELED "X" IN WEST FACE OF CONCRETE WALK, 11.04' SOUTHWEST OF NORTHWEST CORNER OF CONCRETE FOUNDATION FOR TAVERN. STA. 108+50, 85' RT EL. 959.70
 BM #2 CHISELED "X" AT SOUTHEAST CORNER OF TRANSFORMER PAD. STA. 114+35, 75' LT EL. 957.37

REVISIONS	
NAME	DATE

ILLINOIS DEPARTMENT OF TRANSPORTATION
 U.S. ROUTE 14 OVER LAWRENCE CREEK
ALIGNMENT, TIES & BENCHMARKS

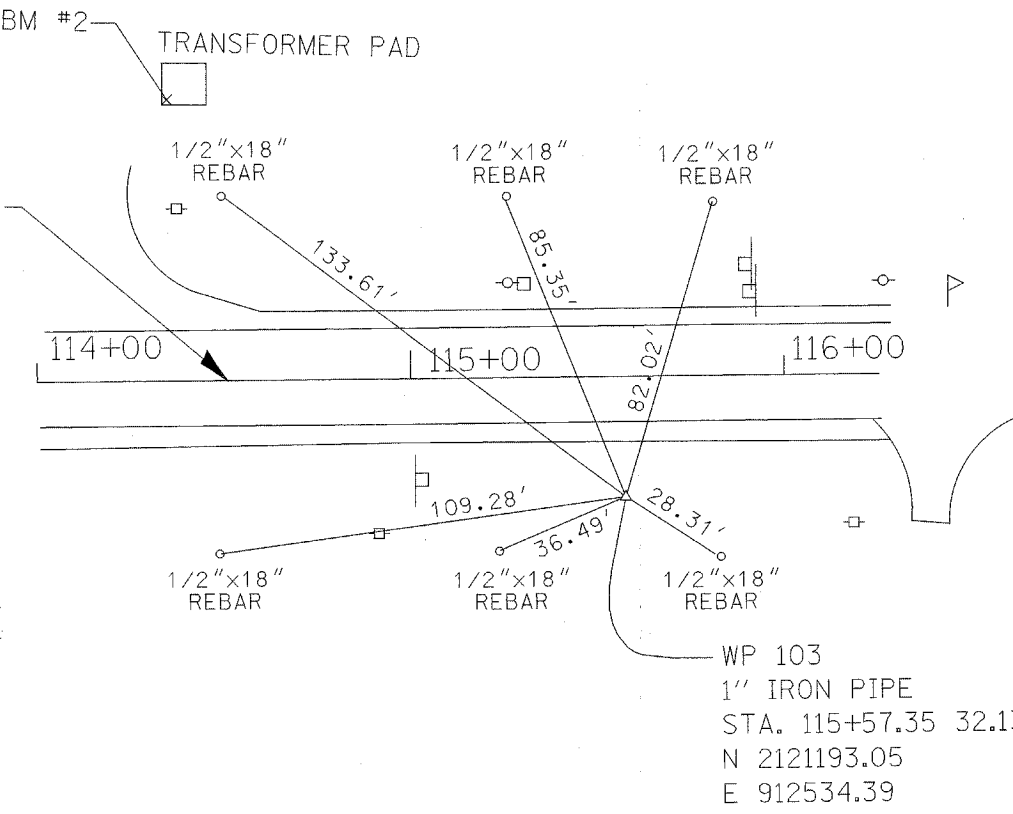
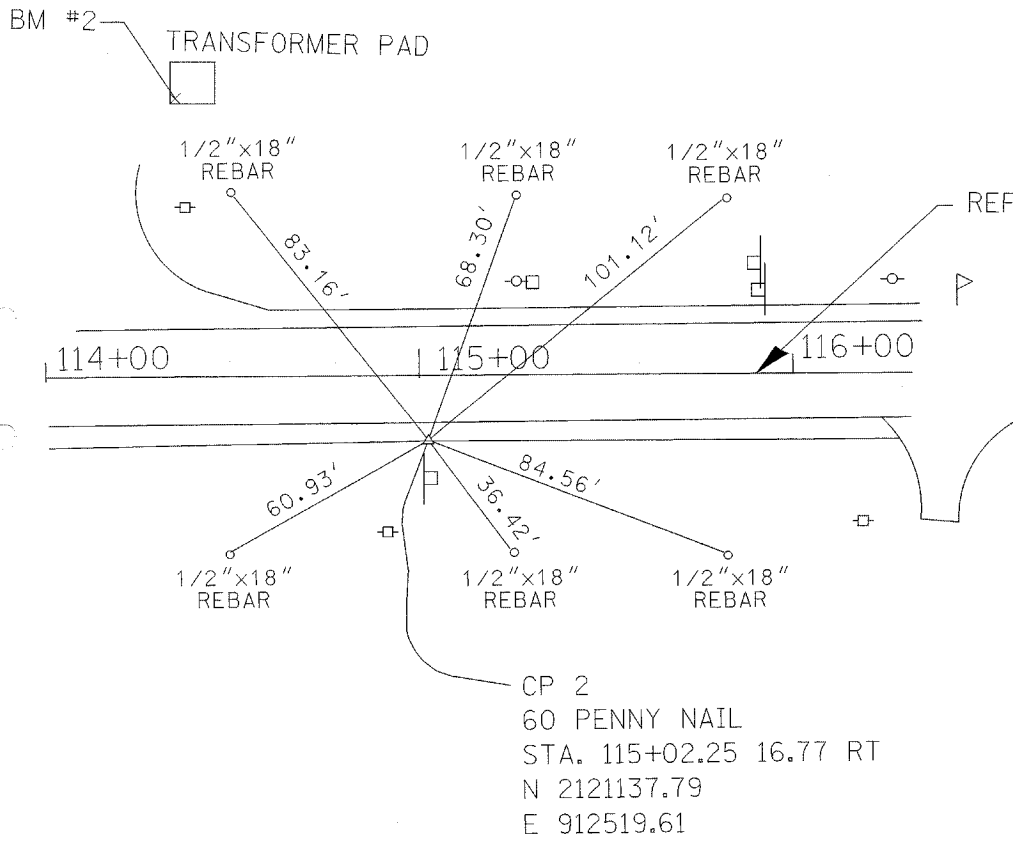
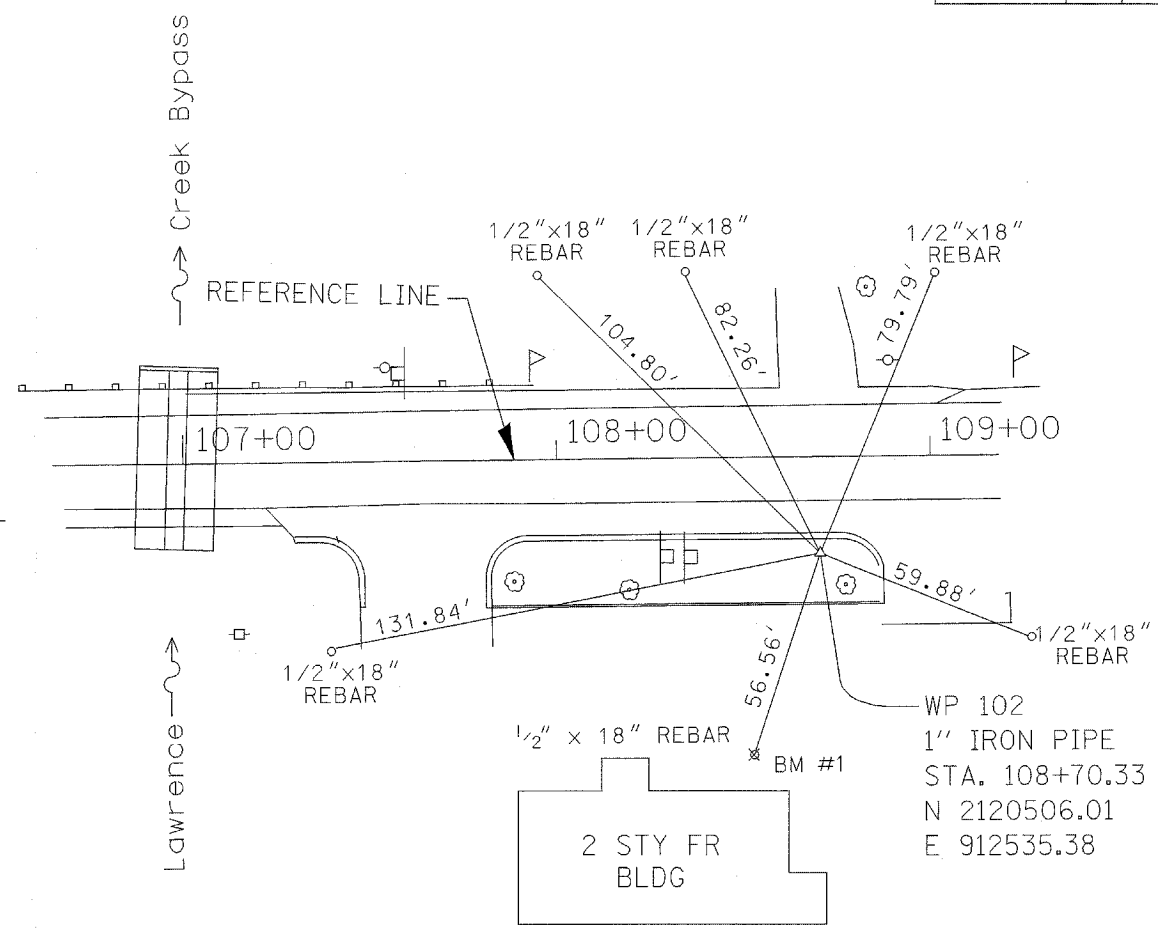
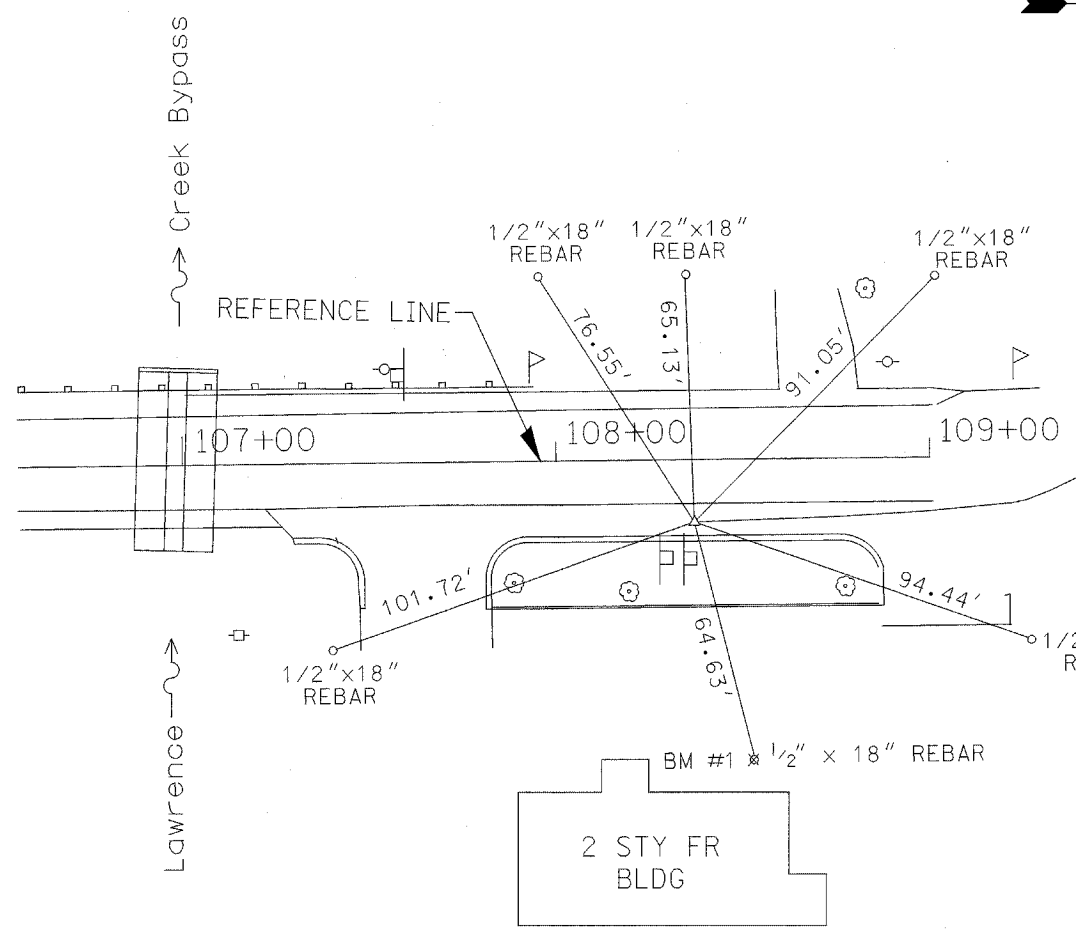
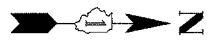
SCALE: N.T.S.
 DATE: 2-07-05
 DRAWN BY: CLG
 CHECKED BY: JJD



3287TIE.DGN

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
066	21 (B&G) R	McHENRY	66	15
STA.		TO STA.		
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		

#62391



BENCHMARK
 BM #1 CHISELED "X" IN WEST FACE OF CONCRETE WALK, 11.04' SOUTHWEST OF NORTHWEST CORNER OF CONCRETE FOUNDATION FOR TAVERN. STA. 108+50, 85' RT EL. 959.70
 BM #2 CHISELED "X" AT SOUTHEAST CORNER OF TRANSFORMER PAD. STA. 114+35, 75' LT EL. 957.37

REVISIONS	
NAME	DATE

ILLINOIS DEPARTMENT OF TRANSPORTATION
 U.S. ROUTE 14 OVER LAWRENCE CREEK
ALIGNMENT, TIES & BENCHMARKS
 SCALE: N.T.S.
 DATE: 4-13-04
 DRAWN BY: CLG
 CHECKED BY: JJD



3287TIE.DGN

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
066	21 (B&G) R	MCHENRY		17
STA. 82+00		TO STA. 105+00		
FED. ROAD DIST. NO.		ILLINOIS FED. AID PROJECT		

#62391

PRE STAGE I WORK

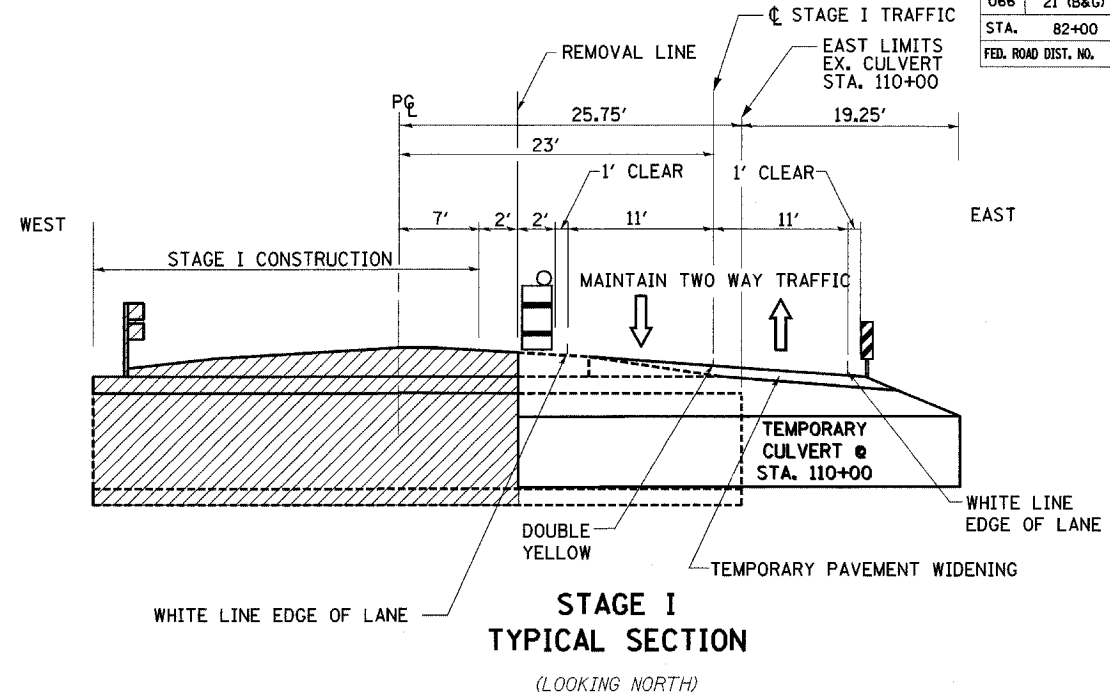
1. INSTALL TEMPORARY CULVERT AT STA. 110+00.
2. REMOVE EXISTING INLET COVER AT STA. 107+00 AND REPLACE WITH CLOSED LID OR APPROVED EQUAL.
3. REMOVE EAST HEADWALL ONLY AT STA. 110+00 TO ALLOW CONSTRUCTION OF TEMPORARY WIDENING
4. INSTALL BULKHEAD AT EAST END EXISTING CULVERT AT STA. 110+00 AROUND TEMP CULVERT AND ACROSS UNUSED RCB CULVERT OPEN CELL TO ALLOW CONSTRUCTION OF TEMPORARY WIDENING.
5. CONSTRUCT TEMPORARY PAVEMENT WIDENING OVER TEMPORARY CULVERT ON EAST SIDE OF US 14.

NOTES:

1. LOCATIONS OF ADVANCED WARNING SIGNS, TEMPORARY CONCRETE BARRIER, AND ALL OTHER TRAFFIC CONTROL DEVICES FOR STAGE I WORK SHALL BE AS SHOWN ON THIS PLAN SHEET. THIS WORK SHALL BE IN ACCORDANCE WITH HIGHWAY STANDARDS 701331 AND 702001. WORK SHALL NOT BEGIN UNTIL ALL TRAFFIC CONTROL DEVICES ARE IN PLACE AND APPROVED BY THE ENGINEER.
2. THE CONTRACTOR SHALL MAINTAIN ACCESS TO ALL PRIVATE AND COMMERCIAL ENTRANCES AND SIDESTREETS.
3. ALL ADVANCED WARNING SIGNS ON THIS SHEET ARE TO BE POST MOUNTED.
4. THE STATIONING FOR SIGNS ARE APPROXIMATE. ADJUST LOCATIONS AS NEEDED TO AVOID SIDEROADS, DRIVEWAYS, AND OTHER OBSTACLES.
5. THE MOT AS SHOWN IN THE PLANS SHALL BE INCLUDED IN COST OF TRAFFIC CONTROL AND PROTECTION, STANDARD 701331.

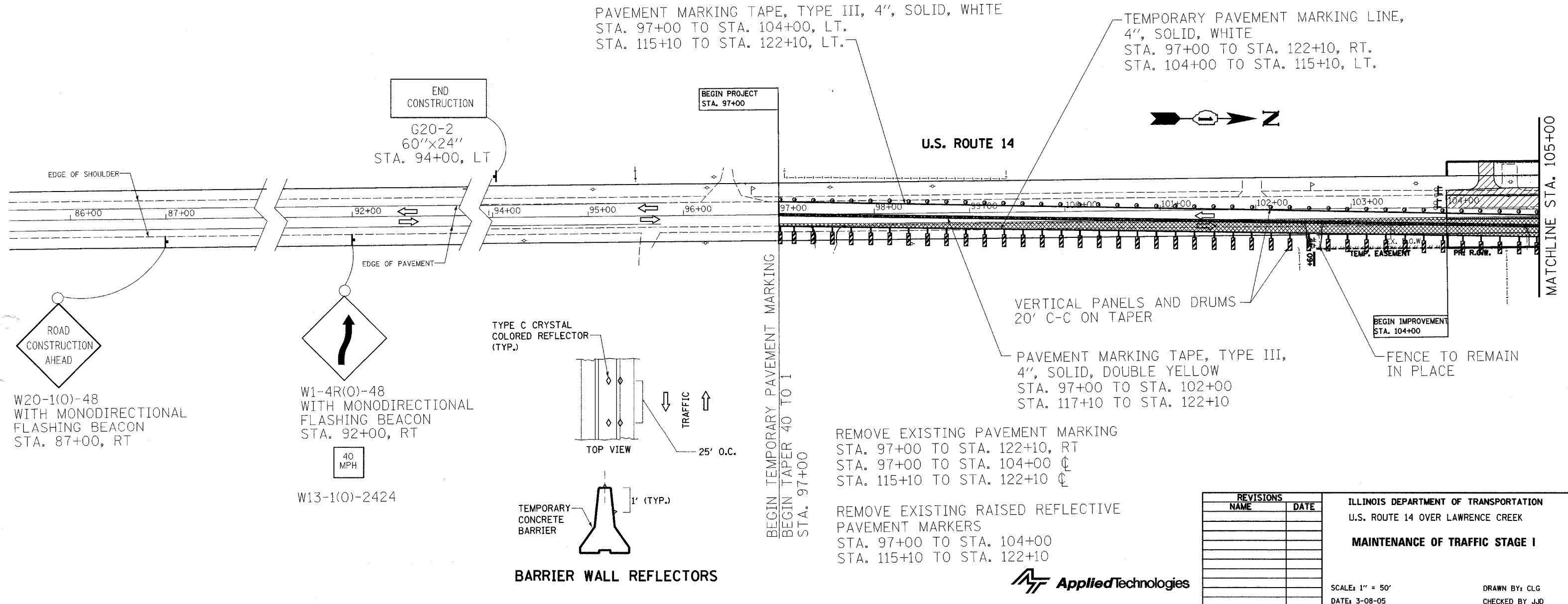
SYMBOLS

- CONSTRUCTION AREA
- 10" TEMPORARY PAVEMENT
- TEMPORARY CONCRETE BARRIER
- DRUMS WITH MONODIRECTIONAL STEADY BURNING LIGHTS
- SIGN
- IMPACT ATTENUATORS, TEMPORARY (FULLY REDIRECTIVE, NARROW)
- TYPE III BARRICADES WITH MONODIRECTIONAL FLASHING LIGHTS
- DIRECTION OF TRAVEL
- VERTICAL PANEL



MAJOR WORK STAGE I

1. REMOVE WESTERN PORTION OF BOX CULVERT AT STA. 110+00 AND WESTERN PORTION OF CIRCULAR CULVERT AT STA. 107+00.
2. CONSTRUCT WESTERN PORTION OF EACH BOX CULVERT AT STA. 107+00 AND 110+00.
3. REMOVE, REGRADE, AND RECONSTRUCT WEST PORTION OF US ROUTE 14.
4. INSTALLATION OF PROPOSED STEEL PLATE BEAM GUARDRAIL, TYPE B AND TRAFFIC BARRIER TERMINAL, TYPE 1 SPECIAL (TANGENT) FROM STA. 105+95 TO STA. 106+20 LT. IS DELAYED UNTIL AFTER STAGE II CONSTRUCTION IS COMPLETE.



REMOVE EXISTING PAVEMENT MARKING
 STA. 97+00 TO STA. 122+10, RT
 STA. 97+00 TO STA. 104+00 ϕ
 STA. 115+10 TO STA. 122+10 ϕ

REMOVE EXISTING RAISED REFLECTIVE
 PAVEMENT MARKERS
 STA. 97+00 TO STA. 104+00
 STA. 115+10 TO STA. 122+10

REVISIONS	
NAME	DATE

ILLINOIS DEPARTMENT OF TRANSPORTATION
 U.S. ROUTE 14 OVER LAWRENCE CREEK
MAINTENANCE OF TRAFFIC STAGE I

SCALE: 1" = 50'
 DATE: 3-08-05

DRAWN BY: CLG
 CHECKED BY: JJD

#62391

PRE STAGE I WORK

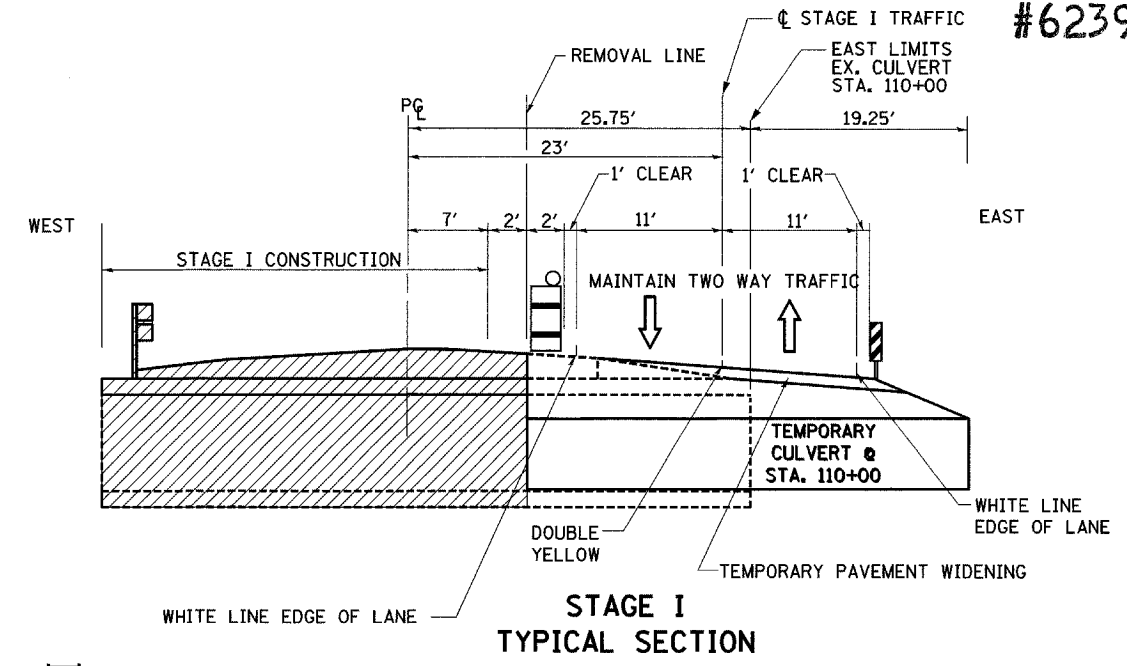
1. INSTALL TEMPORARY CULVERT AT STA. 110+00.
2. REMOVE EXISTING INLET COVER AT STA. 107+00 AND REPLACE WITH CLOSED LID OR APPROVED EQUAL.
3. REMOVE EAST HEADWALL ONLY AT STA. 110+00 TO ALLOW CONSTRUCTION OF TEMPORARY WIDENING
4. INSTALL BULKHEAD AT EAST END EXISTING CULVERT AT STA. 110+00 AROUND TEMP CULVERT AND ACROSS UNUSED RCB CULVERT OPEN CELL TO ALLOW CONSTRUCTION OF TEMPORARY WIDENING.
5. CONSTRUCT TEMPORARY PAVEMENT WIDENING OVER TEMPORARY CULVERT ON EAST SIDE OF US 14.

NOTES:

1. LOCATIONS OF ADVANCED WARNING SIGNS, TEMPORARY CONCRETE BARRIER, AND ALL OTHER TRAFFIC CONTROL DEVICES FOR STAGE I WORK SHALL BE AS SHOWN ON THIS PLAN SHEET. THIS WORK SHALL BE IN ACCORDANCE WITH HIGHWAY STANDARDS 701331 AND 702001. WORK SHALL NOT BEGIN UNTIL ALL TRAFFIC CONTROL DEVICES ARE IN PLACE AND APPROVED BY THE ENGINEER.
2. THE CONTRACTOR SHALL MAINTAIN ACCESS TO ALL PRIVATE AND COMMERCIAL ENTRANCES AND SIDESTREETS.
3. ALL ADVANCED WARNING SIGNS ON THIS SHEET ARE TO BE POST MOUNTED.
4. THE STATIONING FOR SIGNS ARE APPROXIMATE. ADJUST LOCATIONS AS NEEDED TO AVOID SIDEROADS, DRIVEWAYS, AND OTHER OBSTACLES.
5. THE MOT AS SHOWN IN THE PLANS SHALL BE INCLUDED IN COST OF TRAFFIC CONTROL AND PROTECTION, STANDARD 701331.

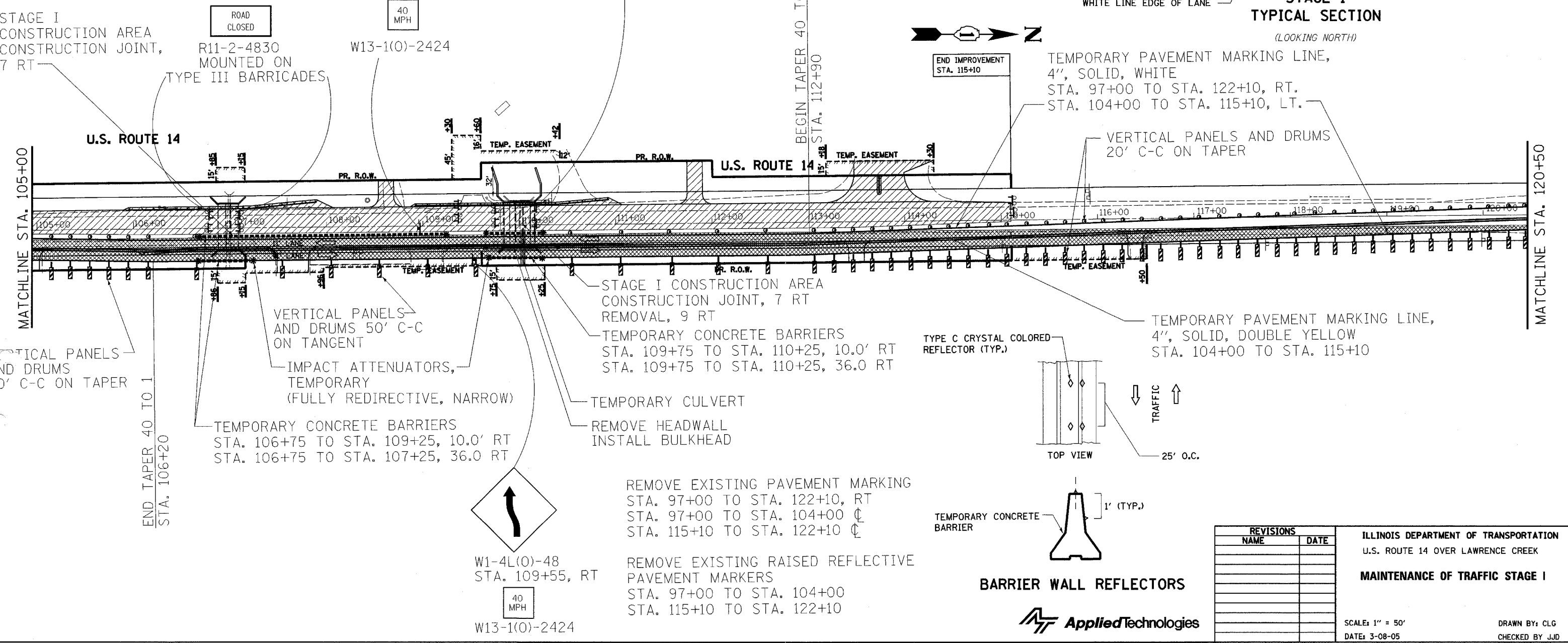
SYMBOLS

- CONSTRUCTION AREA
- 10" TEMPORARY PAVEMENT
- TEMPORARY CONCRETE BARRIER
- DRUMS WITH MONODIRECTIONAL STEADY BURNING LIGHTS
- SIGN
- IMPACT ATTENUATORS, TEMPORARY (FULLY REDIRECTIVE, NARROW)
- TYPE III BARRICADES WITH MONODIRECTIONAL FLASHING LIGHTS
- DIRECTION OF TRAVEL
- VERTICAL PANEL



MAJOR WORK STAGE I

1. REMOVE WESTERN PORTION OF BOX CULVERT AT STA. 110+00 AND WESTERN PORTION OF CIRCULAR CULVERT AT STA. 107+00.
2. CONSTRUCT WESTERN PORTION OF EACH BOX CULVERT AT STA. 107+00 AND 110+00.
3. REMOVE, REGRADE, AND RECONSTRUCT WEST PORTION OF US ROUTE 14.
4. INSTALLATION OF PROPOSED STEEL PLATE BEAM GUARDRAIL, TYPE B AND TRAFFIC BARRIER TERMINAL, TYPE 1 SPECIAL (TANGENT) FROM STA. 105+95 TO STA. 106+20 LT. IS DELAYED UNTIL AFTER STAGE II CONSTRUCTION IS COMPLETE.



REVISIONS	
NAME	DATE

ILLINOIS DEPARTMENT OF TRANSPORTATION
 U.S. ROUTE 14 OVER LAWRENCE CREEK
MAINTENANCE OF TRAFFIC STAGE I

SCALE: 1" = 50'
 DATE: 3-08-05

DRAWN BY: CLG
 CHECKED BY: JJD



PRE STAGE I WORK

1. INSTALL TEMPORARY CULVERT AT STA. 110+00.
2. REMOVE EXISTING INLET COVER AT STA. 107+00 AND REPLACE WITH CLOSED LID OR APPROVED EQUAL.
3. REMOVE EAST HEADWALL ONLY AT STA. 110+00 TO ALLOW CONSTRUCTION OF TEMPORARY WIDENING
4. INSTALL BULKHEAD AT EAST END EXISTING CULVERT AT STA. 110+00 AROUND TEMP CULVERT AND ACROSS UNUSED RCB CULVERT OPEN CELL TO ALLOW CONSTRUCTION OF TEMPORARY WIDENING.
5. CONSTRUCT TEMPORARY PAVEMENT WIDENING OVER TEMPORARY CULVERT ON EAST SIDE OF US 14.










MAJOR WORK STAGE I

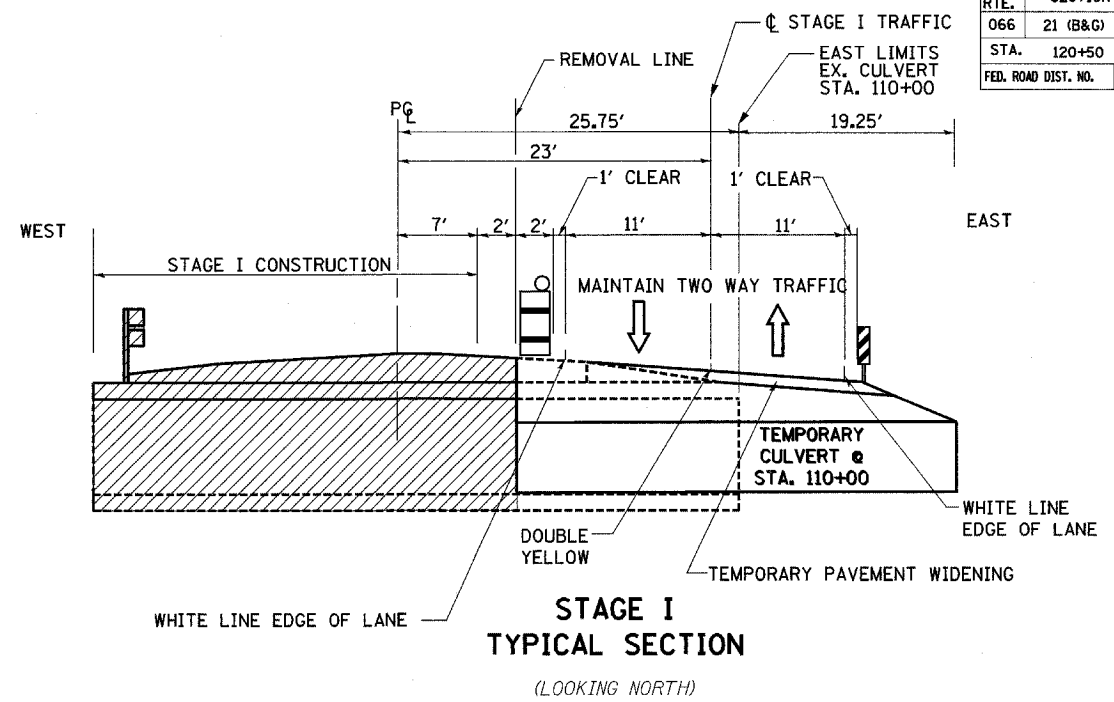
1. REMOVE WESTERN PORTION OF BOX CULVERT AT STA. 110+00 AND WESTERN PORTION OF CIRCULAR CULVERT AT STA. 107+00.
2. CONSTRUCT WESTERN PORTION OF EACH BOX CULVERT AT STA. 107+00 AND 110+00.
3. REMOVE, REGRADE, AND RECONSTRUCT WEST PORTION OF US ROUTE 14.
4. INSTALLATION OF PROPOSED STEEL PLATE BEAM GUARDRAIL, TYPE B AND TRAFFIC BARRIER TERMINAL, TYPE 1 SPECIAL (TANGENT) FROM STA. 105+95 TO STA. 106+20 LT. IS DELAYED UNTIL AFTER STAGE II CONSTRUCTION IS COMPLETE.

NOTES:

1. LOCATIONS OF ADVANCED WARNING SIGNS, TEMPORARY CONCRETE BARRIER, AND ALL OTHER TRAFFIC CONTROL DEVICES FOR STAGE I WORK SHALL BE AS SHOWN ON THIS PLAN SHEET. THIS WORK SHALL BE IN ACCORDANCE WITH HIGHWAY STANDARDS 701331 AND 702001. WORK SHALL NOT BEGIN UNTIL ALL TRAFFIC CONTROL DEVICES ARE IN PLACE AND APPROVED BY THE ENGINEER.
2. THE CONTRACTOR SHALL MAINTAIN ACCESS TO ALL PRIVATE AND COMMERCIAL ENTRANCES AND SIDESTREETS.
3. ALL ADVANCED WARNING SIGNS ON THIS SHEET ARE TO BE POST MOUNTED.
4. THE STATIONING FOR SIGNS ARE APPROXIMATE. ADJUST LOCATIONS AS NEEDED TO AVOID SIDEROADS, DRIVEWAYS, AND OTHER OBSTACLES.
5. THE MOT AS SHOWN IN THE PLANS SHALL BE INCLUDED IN COST OF TRAFFIC CONTROL AND PROTECTION, STANDARD 701331.

SYMBOLS

-  CONSTRUCTION AREA
-  10" TEMPORARY PAVEMENT
-  TEMPORARY CONCRETE BARRIER
-  DRUMS WITH MONODIRECTIONAL STEADY BURNING LIGHTS
-  SIGN
-  IMPACT ATTENUATORS, TEMPORARY (FULLY REDIRECTIVE, NARROW)
-  TYPE III BARRICADES WITH MONODIRECTIONAL FLASHING LIGHTS
-  DIRECTION OF TRAVEL
-  VERTICAL PANEL

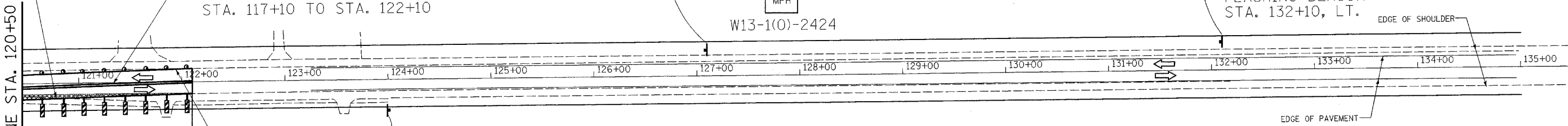


F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
066	21 (B&G) R	MCHENRY		19
STA. 120+50	TO STA. 135+00			
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		

#62391

TEMPORARY PAVEMENT MARKING LINE, 4", SOLID, WHITE
 STA. 97+00 TO STA. 122+10, RT.
 STA. 104+00 TO STA. 115+10, LT.

PAVEMENT MARKING TAPE, TYPE III, 4", SOLID, DOUBLE YELLOW
 STA. 97+00 TO STA. 102+00
 STA. 117+10 TO STA. 122+10



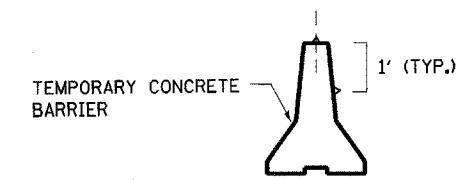
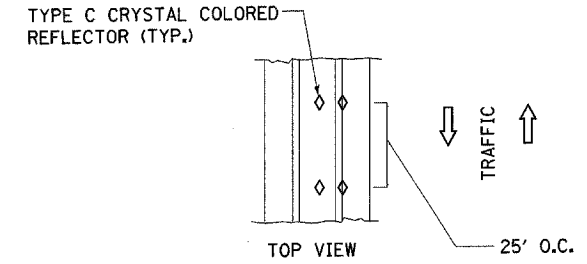
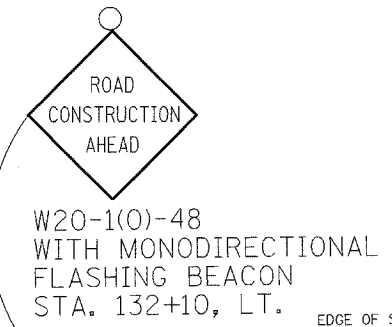
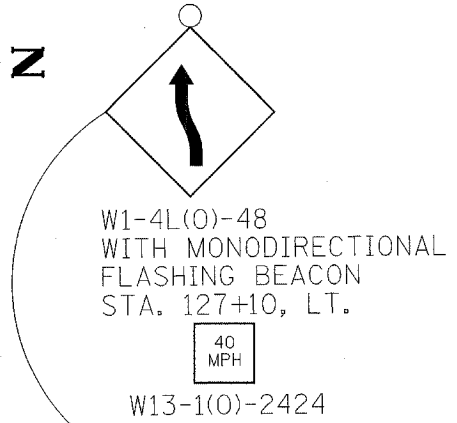
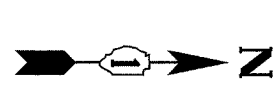
END TEMPORARY PAVEMENT MARKING
 END TAPER 40 TO 1
 STA. 122+10

G20-2
 60"x24"
 STA. 124+00, RT.

PAVEMENT MARKING TAPE, TYPE III, 4", SOLID, WHITE
 STA. 97+00 TO STA. 104+00, LT.
 STA. 115+10 TO STA. 122+10, LT.

REMOVE EXISTING PAVEMENT MARKING
 STA. 97+00 TO STA. 122+10, RT
 STA. 97+00 TO STA. 104+00 ☐
 STA. 115+10 TO STA. 122+10 ☐

REMOVE EXISTING RAISED REFLECTIVE PAVEMENT MARKERS
 STA. 97+00 TO STA. 104+00
 STA. 115+10 TO STA. 122+10



BARRIER WALL REFLECTORS



REVISIONS	
NAME	DATE

ILLINOIS DEPARTMENT OF TRANSPORTATION
 U.S. ROUTE 14 OVER LAWRENCE CREEK
MAINTENANCE OF TRAFFIC STAGE I
 SCALE: 1" = 50'
 DATE: 3-08-05
 DRAWN BY: CLG
 CHECKED BY: JJD

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
066	21 (B&G) R	MCHENRY	66	20
STA.	85+00	TO STA.	105+00	
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		

#62391

PRE STAGE II WORK

1. ADD TEMPORARY PAVEMENT WIDENING STA. 99+00 TO STA. 106+20 LT AND STA. 112+90 TO STA. 120+10 LT.

MAJOR WORK STAGE II

1. SHIFT TRAFFIC FROM STAGE I LANES TO STAGE II LANES (WEST SIDE LANES).
2. REMOVAL OF INLET IS INCIDENTAL TO REMOVAL STRUCTURE AT STA. 107+00. REMOVAL OF BULKHEAD AND TEMPORARY CULVERT ARE INCIDENTAL TO REMOVAL OF STRUCTURE AT STA. 110+00. CONSTRUCT EASTERN PORTION OF EACH BOX CULVERT, STA. 107+00 AND STA. 110+00.
3. REMOVE, REGRADE AND RECONSTRUCT EAST PORTION OF US ROUTE 14, INCLUDING REMOVAL OF STAGE I TEMPORARY PAVEMENT WIDENING.
4. STA. 97+00 TO STA. 104+00 RT AND STA. 115+10 TO 122+10 RT REGRADE DITCH CROSS SECTION TO ORIGINAL SECTION, RECONSTRUCT AGGREGATE SHOULDER, FOLLOW EROSION & SEDIMENT CONTROL AND LANDSCAPE PLANS. RESTORE DR. AT STA. 97+50 RT.

POST STAGE II WORK

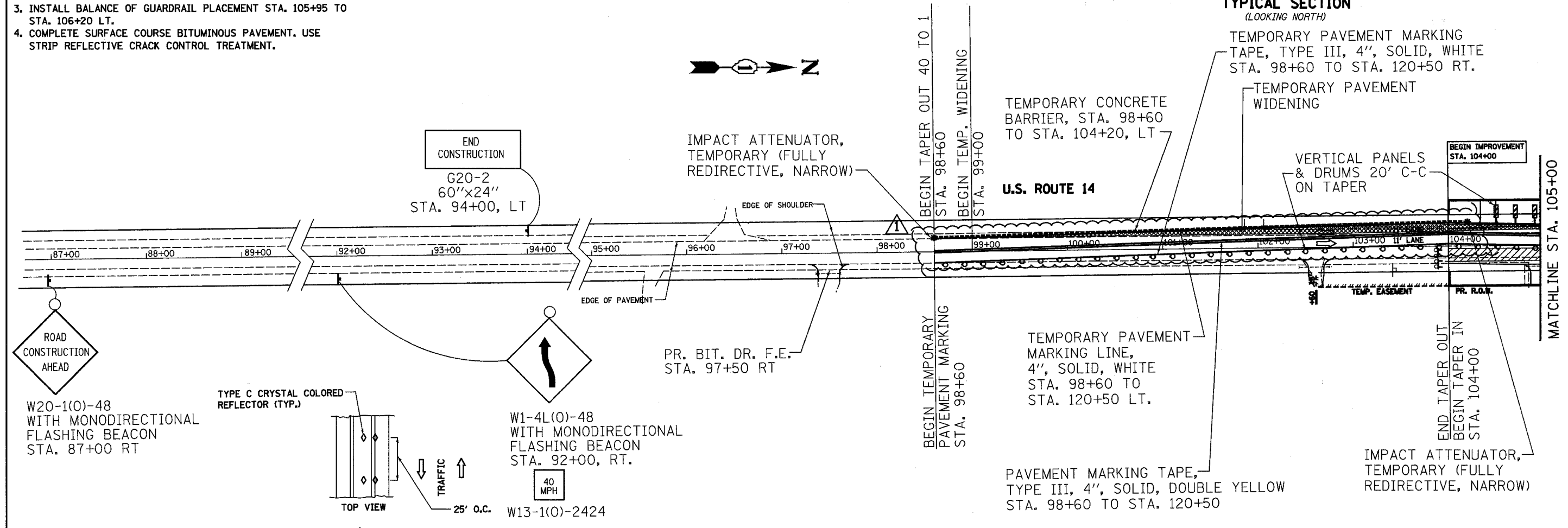
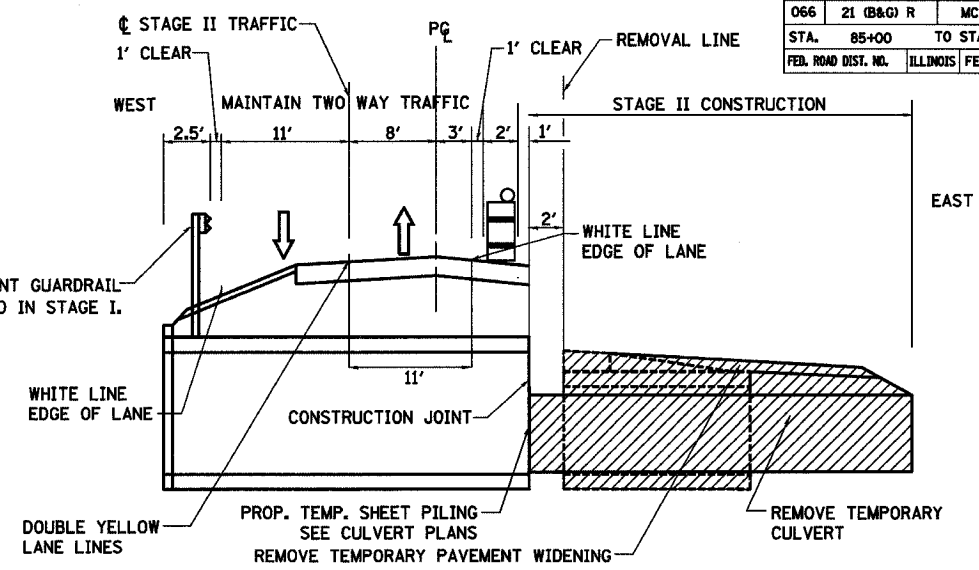
1. AFTER TRAFFIC IS SHIFTED TO NORMAL, REMOVE STAGE II TEMPORARY PAVEMENT WIDENING.
2. STA. 99+00 TO STA. 106+20 LT. AND STA. 112+90 TO STA. 120+10 LT. REGRADE DITCH TO ORIGINAL SECTION, RECONSTRUCT AGGREGATE SHOULDER, FOLLOW EROSION & SEDIMENT CONTROL AND LANDSCAPE PLANS.
3. INSTALL BALANCE OF GUARDRAIL PLACEMENT STA. 105+95 TO STA. 106+20 LT.
4. COMPLETE SURFACE COURSE BITUMINOUS PAVEMENT. USE STRIP REFLECTIVE CRACK CONTROL TREATMENT.

NOTES:

1. LOCATIONS OF ADVANCED WARNING SIGNS, TEMPORARY CONCRETE BARRIER, AND ALL OTHER TRAFFIC CONTROL DEVICES FOR STAGE II WORK SHALL BE AS SHOWN ON THIS PLAN SHEET. THIS WORK SHALL BE IN ACCORDANCE WITH HIGHWAY STANDARDS 701331 AND 702001. WORK SHALL NOT BEGIN UNTIL ALL TRAFFIC CONTROL DEVICES ARE IN PLACE AND APPROVED BY THE ENGINEER.
2. THE CONTRACTOR SHALL MAINTAIN ACCESS TO ALL PRIVATE AND COMMERCIAL ENTRANCES AND SIDESTREETS.
3. ALL ADVANCED WARNING SIGNS ON THIS SHEET ARE TO BE POST MOUNTED.
4. THE STATIONING FOR SIGNS ARE APPROXIMATE. ADJUST LOCATIONS AS NEEDED TO AVOID SIDEROADS, DRIVEWAYS, AND OTHER OBSTACLES.
5. THE MOT AS SHOWN IN THE PLANS SHALL BE INCLUDED IN COST OF TRAFFIC CONTROL AND PROTECTION, STANDARD 701331.

SYMBOLS

- CONSTRUCTION AREA
- 10" TEMPORARY PAVEMENT
- TEMPORARY CONCRETE BARRIER
- DRUMS WITH MONODIRECTIONAL STEADY BURNING LIGHTS
- SIGN
- IMPACT ATTENUATORS, TEMPORARY (FULLY REDIRECTIVE, NARROW)
- TYPE III BARRICADES WITH MONODIRECTIONAL FLASHING LIGHTS
- DIRECTION OF TRAVEL
- VERTICAL PANEL



REVISIONS	
NAME	DATE
KWN	4-11-05

ILLINOIS DEPARTMENT OF TRANSPORTATION
 U.S. ROUTE 14 OVER LAWRENCE CREEK
 MAINTENANCE OF TRAFFIC STAGE II

SCALE: 1" = 50'
 DATE: 2-10-05

DRAWN BY: CLG
 CHECKED BY: JJD



3287TRAFF2.DGN

#62391

PRE STAGE II WORK

1. ADD TEMPORARY PAVEMENT WIDENING STA. 99+00 TO STA. 106+20 LT AND STA. 112+90 TO STA. 120+10 LT.

MAJOR WORK STAGE II

1. SHIFT TRAFFIC FROM STAGE I LANES TO STAGE II LANES (WEST SIDE LANES).
2. REMOVAL OF INLET IS INCIDENTAL TO REMOVAL STRUCTURE AT STA. 107+00. REMOVAL OF BULKHEAD AND TEMPORARY CULVERT ARE INCIDENTAL TO REMOVAL OF STRUCTURE AT STA. 110+00. CONSTRUCT EASTERN PORTION OF EACH BOX CULVERT, STA. 107+00 AND STA. 110+00.
3. REMOVE, REGRADE AND RECONSTRUCT EAST PORTION OF US ROUTE 14, INCLUDING REMOVAL OF STAGE I TEMPORARY PAVEMENT WIDENING.
4. STA. 97+00 TO STA. 104+00 RT AND STA. 115+10 TO 122+10 RT REGRADE DITCH CROSS SECTION TO ORIGINAL SECTION, RECONSTRUCT AGGREGATE SHOULDER, FOLLOW EROSION & SEDIMENT CONTROL AND LANDSCAPE PLANS. RESTORE DR. AT STA. 97+50 RT.

POST STAGE II WORK

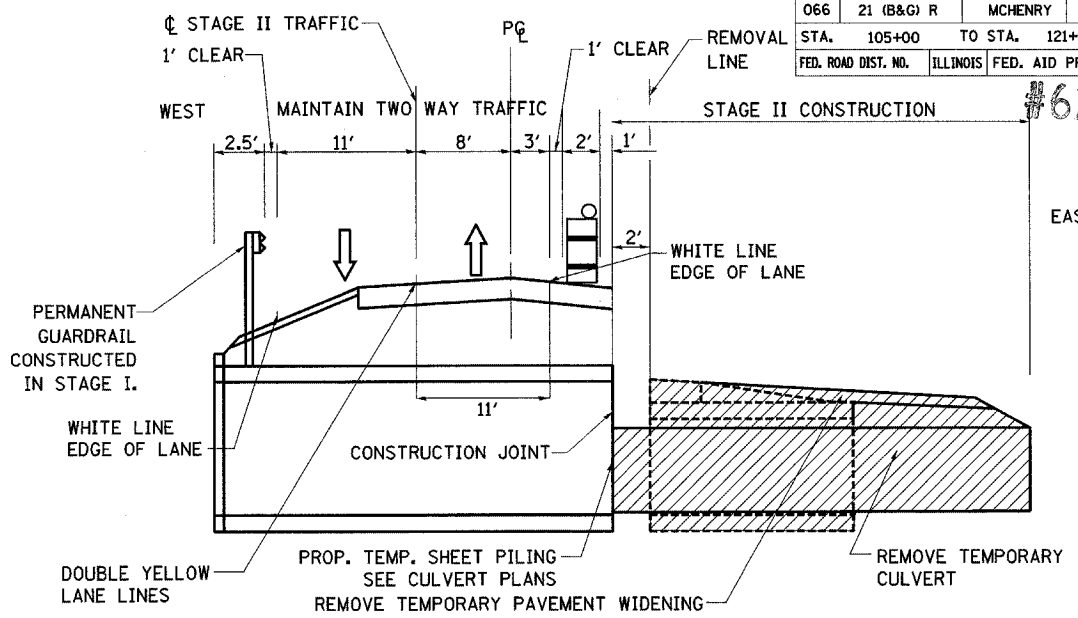
1. AFTER TRAFFIC IS SHIFTED TO NORMAL: REMOVE STAGE II TEMPORARY PAVEMENT WIDENING.
2. STA. 99+00 TO STA. 106+20 LT. AND STA. 112+90 TO STA. 120+10 LT. REGRADE DITCH TO ORIGINAL SECTION, RECONSTRUCT AGGREGATE SHOULDER, FOLLOW EROSION & SEDIMENT CONTROL AND LANDSCAPE PLANS.
3. INSTALL BALANCE OF GUARDRAIL PLACEMENT STA. 105+95 TO STA. 106+20 LT.
4. COMPLETE SURFACE COURSE BITUMINOUS PAVEMENT. USE STRIP REFLECTIVE CRACK CONTROL TREATMENT.

NOTES:

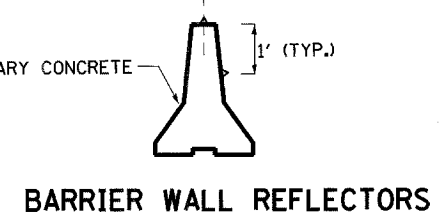
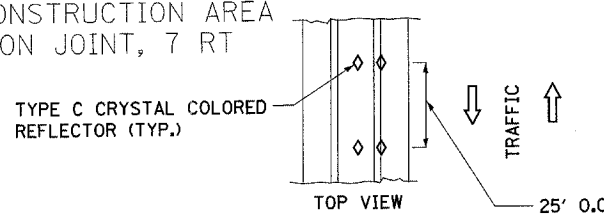
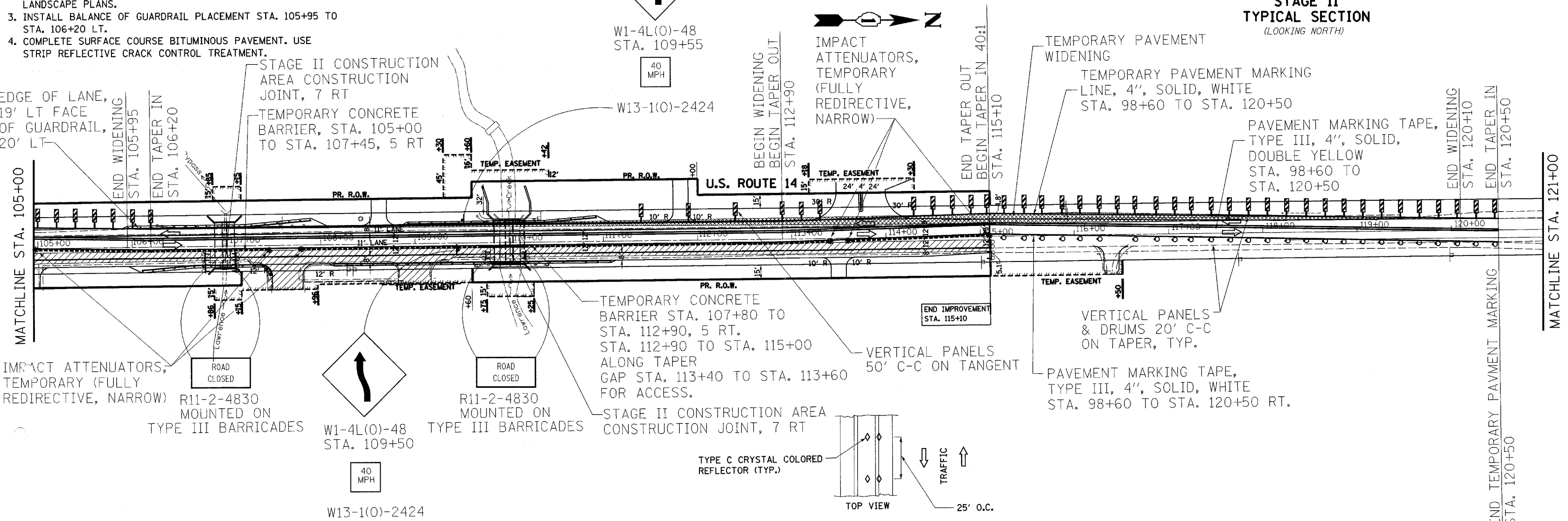
1. LOCATIONS OF ADVANCED WARNING SIGNS, TEMPORARY CONCRETE BARRIER, AND ALL OTHER TRAFFIC CONTROL DEVICES FOR STAGE II WORK SHALL BE AS SHOWN ON THIS PLAN SHEET. THIS WORK SHALL BE IN ACCORDANCE WITH HIGHWAY STANDARDS 701331 AND 702001. WORK SHALL NOT BEGIN UNTIL ALL TRAFFIC CONTROL DEVICES ARE IN PLACE AND APPROVED BY THE ENGINEER.
2. THE CONTRACTOR SHALL MAINTAIN ACCESS TO ALL PRIVATE AND COMMERCIAL ENTRANCES AND SIDESTREETS.
3. ALL ADVANCED WARNING SIGNS ON THIS SHEET ARE TO BE POST MOUNTED.
4. THE STATIONING FOR SIGNS ARE APPROXIMATE. ADJUST LOCATIONS AS NEEDED TO AVOID SIDEROADS, DRIVEWAYS, AND OTHER OBSTACLES.
5. THE MOT AS SHOWN IN THE PLANS SHALL BE INCLUDED IN COST OF TRAFFIC CONTROL AND PROTECTION, STANDARD 701331.

SYMBOLS

- CONSTRUCTION AREA
- 10" TEMPORARY PAVEMENT
- TEMPORARY CONCRETE BARRIER
- DRUMS WITH MONODIRECTIONAL STEADY BURNING LIGHTS
- SIGN
- IMPACT ATTENUATORS, TEMPORARY (FULLY REDIRECTIVE, NARROW)
- TYPE III BARRICADES WITH MONODIRECTIONAL FLASHING LIGHTS
- DIRECTION OF TRAVEL
- VERTICAL PANEL



STAGE II TYPICAL SECTION
(LOOKING NORTH)



REMOVE EXISTING PAVEMENT MARKINGS
STA. 98+60 TO STA. 104+00 LT
STA. 115+10 TO STA. 102+50 LT

REVISIONS	
NAME	DATE

ILLINOIS DEPARTMENT OF TRANSPORTATION
U.S. ROUTE 14 OVER LAWRENCE CREEK
MAINTENANCE OF TRAFFIC STAGE II

SCALE: 1" = 50'
DATE: 3-09-05

DRAWN BY: CLG
CHECKED BY: JJD



#62391

PRE STAGE II WORK

- ADD TEMPORARY PAVEMENT WIDENING STA. 99+00 TO STA. 106+20 LT AND STA. 112+90 TO STA. 120+10 LT.

MAJOR WORK STAGE II

- SHIFT TRAFFIC FROM STAGE I LANES TO STAGE II LANES (WEST SIDE LANES).
- REMOVAL OF INLET IS INCIDENTAL TO REMOVAL STRUCTURE AT STA. 107+00. REMOVAL OF BULKHEAD AND TEMPORARY CULVERT ARE INCIDENTAL TO REMOVAL OF STRUCTURE AT STA. 110+00. CONSTRUCT EASTERN PORTION OF EACH BOX CULVERT, STA. 107+00 AND STA. 110+00.
- REMOVE, REGRADE AND RECONSTRUCT EAST PORTION OF US ROUTE 14, INCLUDING REMOVAL OF STAGE I TEMPORARY PAVEMENT WIDENING.
- STA. 97+00 TO STA. 104+00 RT AND STA. 115+10 TO 122+10 RT. REGRADE DITCH CROSS SECTION TO ORIGINAL SECTION, RECONSTRUCT AGGREGATE SHOULDER, FOLLOW EROSION & SEDIMENT CONTROL AND LANDSCAPE PLANS. RESTORE DR. AT STA. 97+50 RT.










POST STAGE II WORK

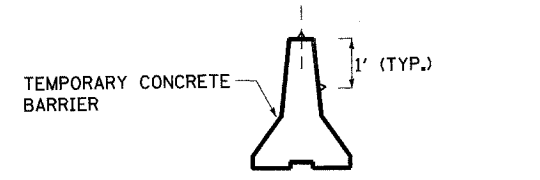
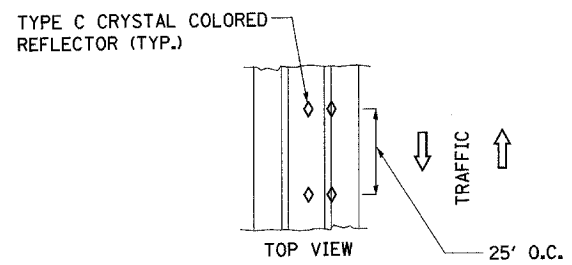
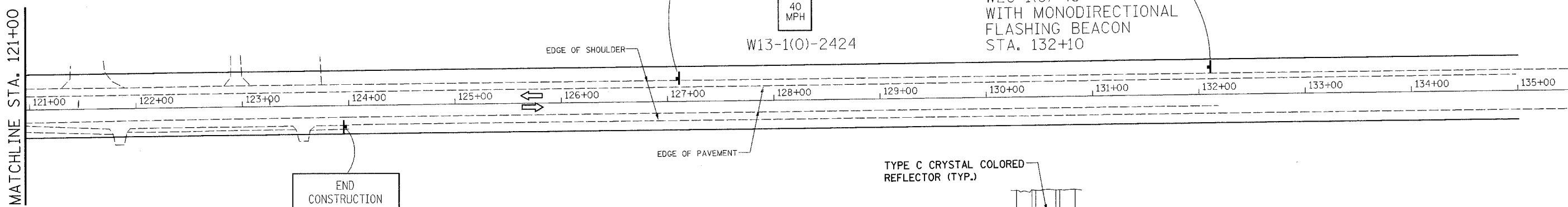
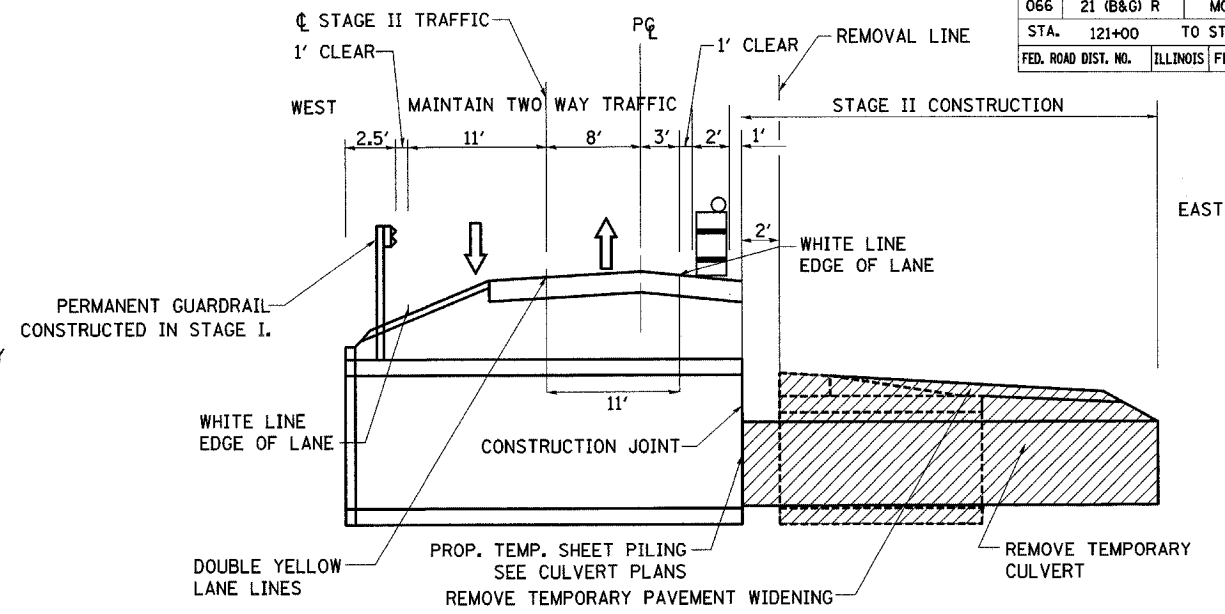
- AFTER TRAFFIC IS SHIFTED TO NORMAL: REMOVE STAGE II TEMPORARY PAVEMENT WIDENING.
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- INSTALL BALANCE OF GUARDRAIL PLACEMENT STA. 105+95 TO STA. 106+20 LT.
- COMPLETE SURFACE COURSE BITUMINOUS PAVEMENT. USE STRIP REFLECTIVE CRACK CONTROL TREATMENT.

NOTES:

- LOCATIONS OF ADVANCED WARNING SIGNS, TEMPORARY CONCRETE BARRIER, AND ALL OTHER TRAFFIC CONTROL DEVICES FOR STAGE II WORK SHALL BE AS SHOWN ON THIS PLAN SHEET. THIS WORK SHALL BE IN ACCORDANCE WITH HIGHWAY STANDARDS 701331 AND 702001. WORK SHALL NOT BEGIN UNTIL ALL TRAFFIC CONTROL DEVICES ARE IN PLACE AND APPROVED BY THE ENGINEER.
- THE CONTRACTOR SHALL MAINTAIN ACCESS TO ALL PRIVATE AND COMMERCIAL ENTRANCES AND SIDESTREETS.
- ALL ADVANCED WARNING SIGNS ON THIS SHEET ARE TO BE POST MOUNTED.
- THE STATIONING FOR SIGNS ARE APPROXIMATE. ADJUST LOCATIONS AS NEEDED TO AVOID SIDEROADS, DRIVEWAYS, AND OTHER OBSTACLES.
- THE MOT AS SHOWN IN THE PLANS SHALL BE INCLUDED IN COST OF TRAFFIC CONTROL AND PROTECTION, STANDARD 701331.

SYMBOLS

-  CONSTRUCTION AREA
-  10" TEMPORARY PAVEMENT
-  TEMPORARY CONCRETE BARRIER
-  DRUMS WITH MONODIRECTIONAL STEADY BURNING LIGHTS
-  SIGN
-  IMPACT ATTENUATORS, TEMPORARY (FULLY REDIRECTIVE, NARROW)
-  TYPE III BARRICADES WITH MONODIRECTIONAL FLASHING LIGHTS
-  DIRECTION OF TRAVEL
-  VERTICAL PANEL



BARRIER WALL REFLECTORS

REMOVE EXISTING PAVEMENT MARKINGS
 STA. 98+60 TO STA. 104+00 LT
 STA. 115+10 TO STA. 120+50 LT

REVISIONS	
NAME	DATE

ILLINOIS DEPARTMENT OF TRANSPORTATION
 U.S. ROUTE 14 OVER LAWRENCE CREEK
MAINTENANCE OF TRAFFIC STAGE II



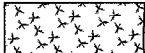
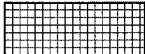




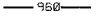
F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
066	21 (B&G) R	MCHENRY	66	23
STA.	103+00	TO STA.	115+00	
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		

#62391

GENERAL EROSION CONTROL NOTES:

- PERIMETER EROSION BARRIER MUST BE IN PLACE PRIOR TO START OF WORK.
- TEMPORARY EROSION CONTROL SEEDING AND MULCH OF ALL ERODABLE AND BARE AREAS MUST BE PLACED EVERY SEVEN DAYS.
- TEMPORARY DITCH CHECKS SHALL BE PLACED AFTER FINAL DITCH GRADE HAS BEEN ESTABLISHED AND TEMPORARY SEEDING AND MULCH HAVE BEEN PLACED.
- CONTRACTOR MUST PROPERLY MAINTAIN EROSION AND SEDIMENT CONTROL MEASURES AS PER IDOT STANDARD SPECIFICATIONS.
- ROLLED EXCELSIOR WILL BE USED AS THE TEMPORARY DITCH CHECK. A HEIGHT OF 1 FT WAS USED TO CALCULATE THE DITCH CHECK LOCATIONS. IF THE HEIGHT VARIES FROM THIS, THE DITCH CHECK LOCATIONS WILL HAVE TO BE REEVALUATED.
- THE CONTRACTOR WILL BE REQUIRED TO SUBMIT CERTIFICATION STATEMENT (NPDES ATTACHMENT 6), FULL COMPLIANCE WITH ALL TERMS OF THE NPDES PERMIT MUST BE STRICTLY ADHERED TO.
- TURF REINFORCEMENT MAT AND AGGREGATE DITCH WILL BE INSTALLED AS PERMANENT EROSION CONTROL MEASURES.

EROSION AND SEDIMENT CONTROL LEGEND

-  TEMPORARY EROSION CONTROL SEEDING AND MULCH, METHOD 1
-  TURF REINFORCEMENT MAT
-  AGGREGATE DITCH
-  PERIMETER EROSION BARRIER
-  TEMPORARY DITCH CHECK
-  FLOW DIRECTION
-  EXISTING CONTOUR LINES

GENERAL NOTES:

THE PROPERTIES ARE PRIVATE.

THE SOIL TYPE IS KANE SILT LOAM TO LOAM AS LISTED IN THE SOIL SURVEY MAP OF MCHENRY COUNTY, ILLINOIS ISSUED IN 1995 INCLUDED IN THE PROJECT REPORT.

ALL GROUND COVER IS VEGETATIVE.

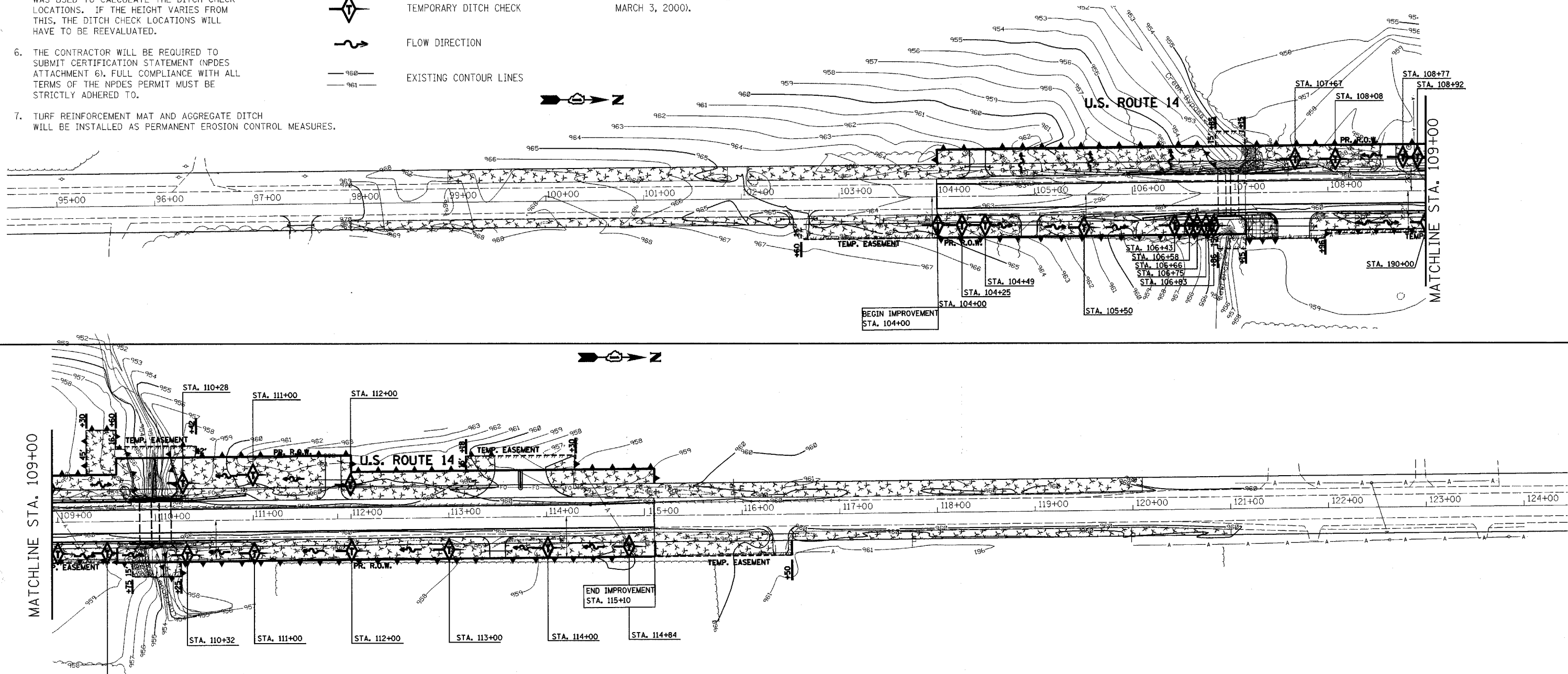
THE PROJECT REPORT BIOLOGICAL RESOURCES REVIEW CONCLUDED THE FOLLOWING: 1. LAWRENCE CREEK IS A CLASS 1 STREAM 7 MILES UPSTREAM AT CHEMUNG DUE TO A 1996 OCCURANCE AT THAT LOCATION OF THE STATE THREATENED SLIPPERSHELL (ALASMIDONTA VIRIDIS). HOWEVER, THE PROJECT LOCATION PORTION OF LAWRENCE CREEK IS CHANNELIZED AND HAS ONLY THE GIANT FLOATER MUSSEL IN IT (A COMMON SPECIES), ACCORDING TO INHS MALACOLOGIST KEVIN CUMMINGS. THEREFORE LAWRENCE CREEK IS NOT A CLASS 1 STREAM AT THE PROJECT LOCATION AND NO ADVERSE EFFECT WILL OCCUR. 2. THE PROJECT DOES NOT REQUIRE BIOLOGICAL OR WETLANDS SURVEY. THE ILLINOIS DEPARTMENT OF NATURAL RESOURCES NATURAL HERITAGE DATABASE HAS NO RECORDS OF LISTED SPECIES, NATURAL AREAS OR NATURE PRESERVES WITHIN THE PROJECT CORRIDOR (IDNR AGENCY ACTION REPORT DATED MARCH 3, 2000).

GENERAL NOTES CONT.:

THE PROJECT REPORT ENDANGERED SPECIES CONSULTATION PROGRAM AGENCY ACTION REPORT CONCLUDED THE FOLLOWING: 1. THERE ARE NO THREATENED/ENDANGERED SPECIES OR NATURAL AREAS LOCATED WITHIN THE VICINITY OF THE PROJECT. 2. THE PROPOSED PROJECT IS NOT LIKELY TO ADVERSELY AFFECT THE THREATENED/ENDANGERED SPECIES OR INAI SITES. 3. WETLANDS ARE PRESENT WITHIN 250 FT.

THE PROJECT REPORT CULTURAL RESOURCE REVIEW CONCLUDED THAT NO CULTURAL RESOURCE SURVEY IS REQUIRED FOR THIS PROJECT.

THE PROJECT REPORT SPECIAL WASTE MANAGEMENT ASSESSMENT CONCLUDED THAT NO FURTHER TESTING IS REQUIRED, AND THAT THIS PROJECT HAS RECEIVED AN IN-HOUSE SIGN-OFF.



REVISIONS	
NAME	DATE

ILLINOIS DEPARTMENT OF TRANSPORTATION
U.S. ROUTE 14 OVER LAWRENCE CREEK

PROPOSED EROSION & SEDIMENT CONTROL

SCALE: 1" = 50'
DATE: 2-14-05

DRAWN BY: CLG
CHECKED BY: JJD



F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
066	21 (B&G) R	MCHENRY	66	24
STA. 103+00 TO STA. 115+00				
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		

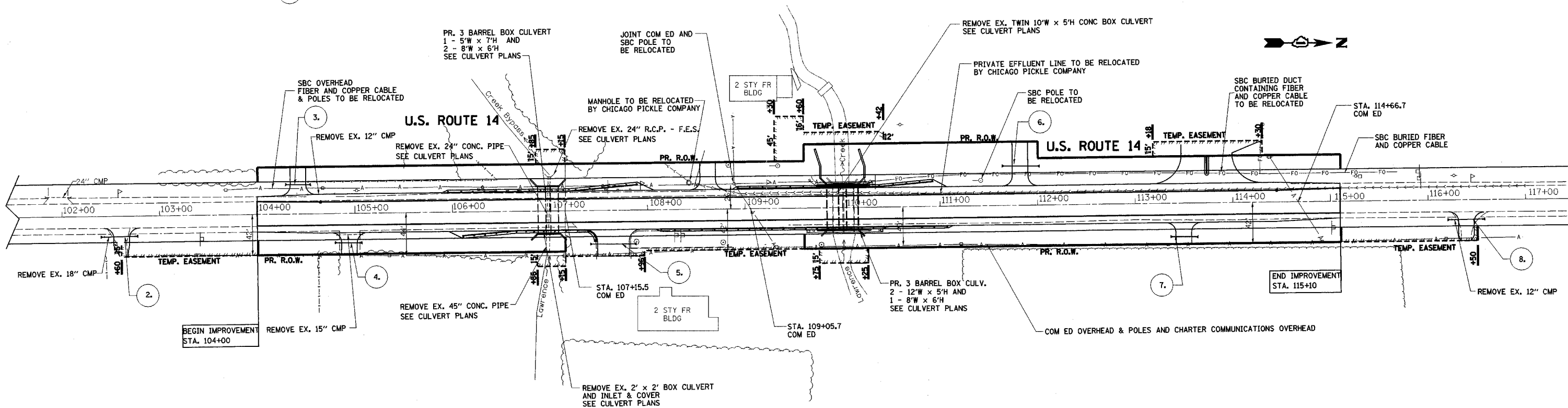
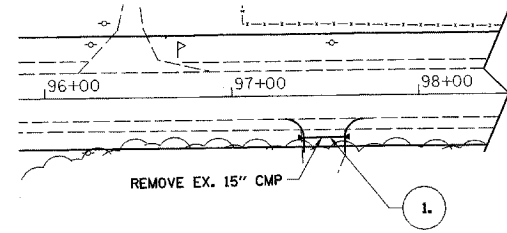
PIPE CULVERT TYPE 1, CORRUGATED STEEL OR ALUMINUM

NO.	C STA.	OFFSET	DIAMETER	LENGTH (FT)	FLOW	INLET	OUTLET
1.	97+50	22 RT	18"	24	SOUTH	972.56	972.23
2.	102+62	21 RT	18"	38	NORTH	962.40	962.20
3.	104+50	30 LT	18"	26	NORTH	960.22	960.00
4.	105+00	30 RT	18"	28	NORTH	959.95	959.65
5.	107+66	33 RT	18"	44	SOUTH	958.89	958.41
6.	111+82	40 LT	18"	34	SOUTH	956.65	956.39
7.	113+50	30 RT	18"	24	SOUTH	957.39	957.15
8.	116+41	20 RT	18"	38	SOUTH	958.41	958.03

NOTE:

ALL CULVERTS INCLUDE 2 STEEL END SECTIONS

#62391



REVISIONS	
NAME	DATE

ILLINOIS DEPARTMENT OF TRANSPORTATION
 U.S. ROUTE 14 OVER LAWRENCE CREEK
**EXISTING AND PROPOSED
 DRAINAGE & UTILITIES**
 SCALE: 1" = 50'
 DATE: 2-11-05
 DRAWN BY: CLG
 CHECKED BY: JJD



PART OF SEC. 1 AND 12, T46N, R5E OF THE 3RD P.M., McHENRY COUNTY, ILLINOIS

F.A.P. R.T.E.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
066	21 (B&G) R	McHENRY	66	26
STA.	TO STA.			
FED. ROAD DIST. NO.		ILLINOIS	FED. AID PROJECT	

#62391

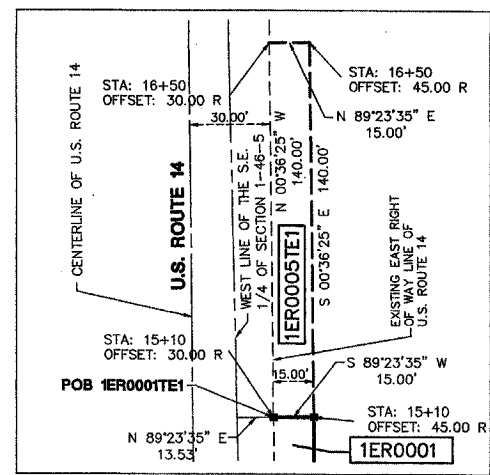
LEGEND

SECTION CORNER
 QUARTER SECTION CORNER
 SECTION LINE
 QUARTER SECTION LINE
 QUARTER, QUARTER SECTION LINE
 PLATTED LOT LINE
 PROPERTY (DEED) LINE
 APPARENT PROPERTY LINE
 CENTERLINE
 EXISTING RIGHT OF WAY LINE
 PROPOSED RIGHT OF WAY LINE
 PROPOSED EASEMENT

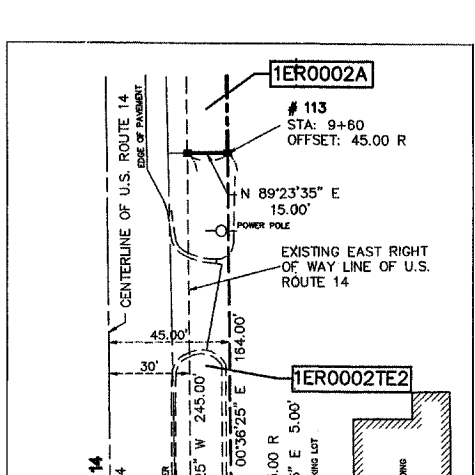
MEASURED DIMENSION
 COMPUTED DIMENSION
 RECORD DATA
 EXISTING BUILDING

IRON ROD SET
 IRON PIPE OR ROD FOUND
 CUT CROSS FOUND OR SET
 THESE STAKES REFERENCE FOUND OR SET MONUMENTATION SET 5/8 INCH IRON ROD FLUSH WITH GROUND TO THE FOUND IRON STAKE IDENTIFIED BY COLORED PLASTIC CAP BEARING SURVEYORS REGISTRATION NUMBER.
 THESE STAKES IN CULTIVATED AREAS REFERENCE FOUND OR SET MONUMENTATION BURIED 5/8 INCH IRON ROD 20 INCHES BELOW GROUND TO THE FOUND IRON STAKE IDENTIFIED BY COLORED PLASTIC CAP BEARING SURVEYORS REGISTRATION NUMBER.
 STAKING OF PROPOSED RIGHT OF WAY SET DIVISION OF HIGHWAYS SURVEY MARKER TO MONUMENT THE POSITION SHOWN IDENTIFIED BY INSCRIPTION DATA AND SURVEYORS REGISTRATION NUMBER.
 STAKING OR PROPOSED RIGHT OF WAY IN CULTIVATED AREAS BURIED 5/8 INCH METAL ROD 20 INCHES BELOW GROUND TO MARK FUTURE SURVEY MARKER POSITION IDENTIFIED BY COLOR PLASTIC CAP BEARING SURVEYORS REGISTRATION NUMBER.
 PERMANENT SURVEY MARKER, I D O T STD. 2135 (TO BE SET BY OTHERS)
 RIGHT OF WAY STAKING PROPOSED TO BE SET.
 LIGHT STANDARD

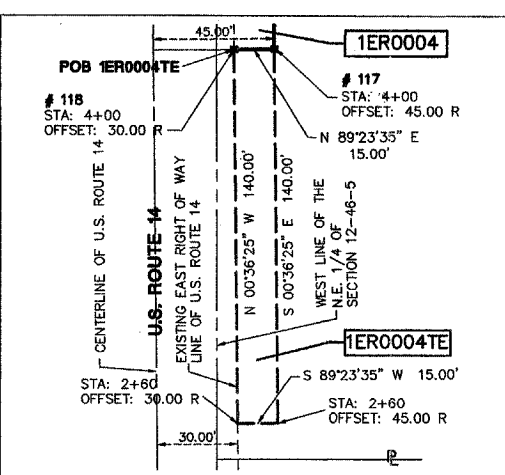
STATE OF ILLINOIS
 COUNTY OF LAKE



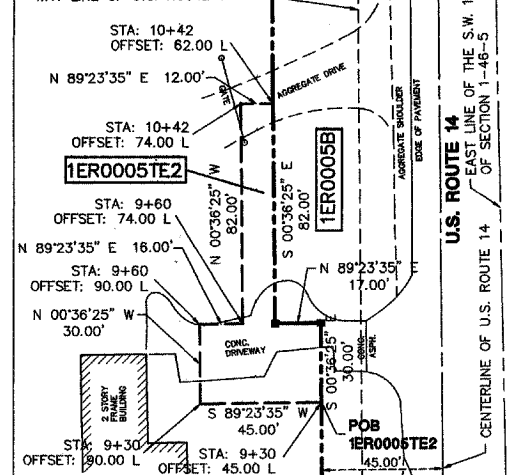
DETAIL 1ER0001TE1
SCALE: 1" = 30'



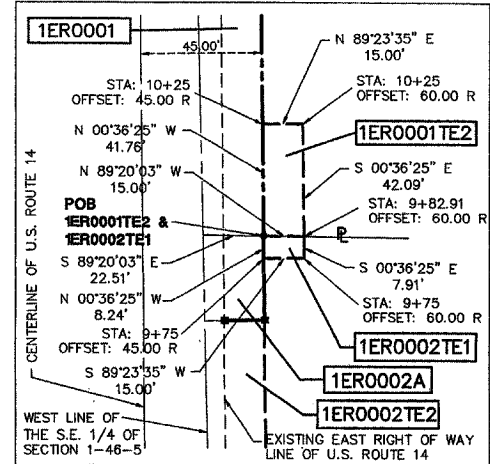
DETAIL 1ER0002TE2
SCALE: 1" = 30'



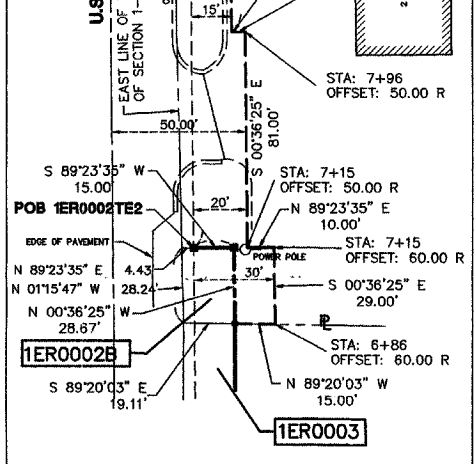
DETAIL 1ER0004TE
SCALE: 1" = 30'



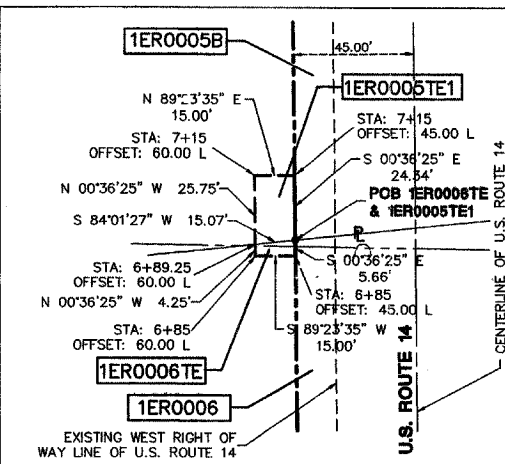
DETAIL 1ER0005TE2
SCALE: 1" = 30'



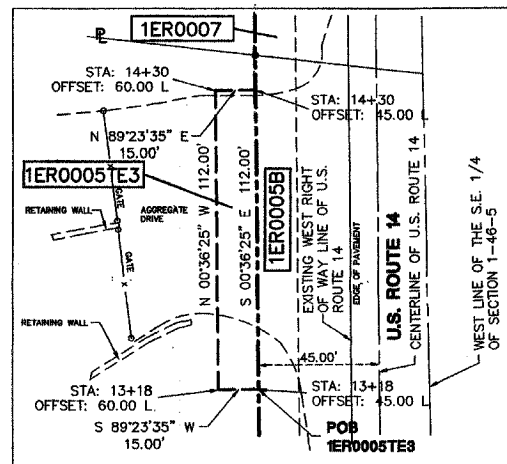
DETAIL 1ER0001TE2 & 1ER0002TE1
SCALE: 1" = 30'



DETAIL 1ER0002TE2
SCALE: 1" = 30'



DETAIL 1ER0005TE1 & 1ER0006TE
SCALE: 1" = 30'



DETAIL 1ER0005TE3
SCALE: 1" = 30'

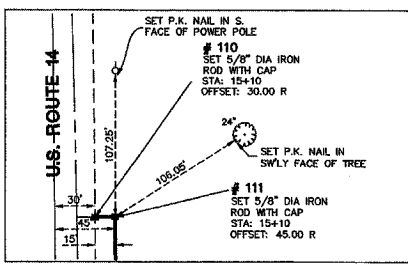
I, TIMOTHY J. MURPHY, DO HEREBY DECLARE THAT I HAVE SURVEYED THE PLAT OF HIGHWAYS SHOWN HEREON SECTIONS 1 AND 12, TOWNSHIP 46 NORTH RANGE 5 EAST OF THE THIRD PRINCIPAL MERIDIAN, McHENRY COUNTY, ILLINOIS; THAT THE SURVEY IS TRUE AND COMPLETE AS SHOWN TO THE BEST OF MY KNOWLEDGE AND BELIEF; THAT THE PLAT CORRECTLY REPRESENTS SAID SURVEY; THAT ALL MONUMENTS FOUND AND ESTABLISHED ARE OF PERMANENT QUALITY AND OCCUPY THE POSITIONS SHOWN THEREON AND THAT THE MONUMENTS ARE SUFFICIENT TO ENABLE THE SURVEY TO BE RETRACED, MADE FOR THE DEPARTMENT OF TRANSPORTATION, STATE OF ILLINOIS.

DATED AT VERNON HILLS, ILLINOIS THIS 16th DAY OF DECEMBER, A.D., 2002.

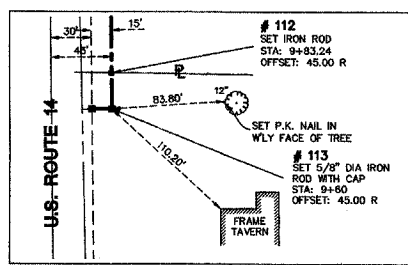
Timothy J. Murphy
 ILLINOIS PROFESSIONAL LAND SURVEYOR NO. 2870
 EXPIRES NOVEMBER 30, 2004

COORDINATE TABLE

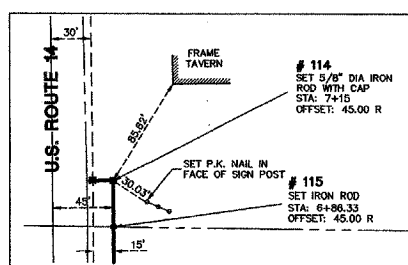
POINT NO.	NORTHING	EASTING
100	2123095.2137	915058.8595
101	2123114.0837	912472.7185
102	2123128.4597	909882.8015
103	2120354.9077	909894.4465
104	2120325.0757	912534.2545
105	2120292.0417	915205.1285
106	2117657.6717	915214.8495
107	2117678.2587	912540.1225
108	2117709.7187	909895.4435
109	2120366.2147	907229.7265
110	2121146.3148	912529.6399
111	2121146.4737	912544.6390
112	2120619.7419	912550.2191
113	2120596.5045	912550.4652
114	2120351.5183	912553.0605
115	2120322.8536	912553.3642
116	2120103.1227	912555.6919
117	2120036.5359	912556.3973
118	2120036.3770	912541.3982
119	2120035.7415	912481.4015
120	2120035.5826	912466.4024
121	2120092.3336	912465.8012
122	2120326.2225	912463.3234
123	2120595.5512	912460.4703
124	2120595.3711	912443.4712
125	2120835.3576	912440.9289
126	2120835.5377	912457.9279
127	2120778.7038	912455.3519
128	2121145.5203	912454.6441
129	2121145.6792	912469.6433



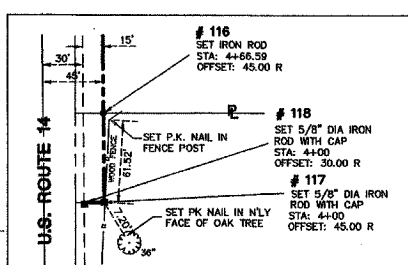
DETAIL OF POINT NO. 111
SCALE: 1" = 60'



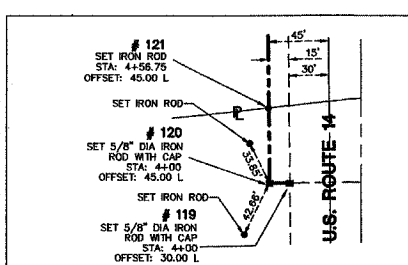
DETAIL OF POINT NO. 113
SCALE: 1" = 60'



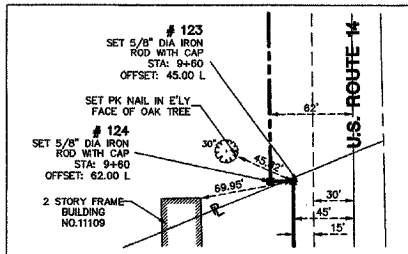
DETAIL OF POINT NO. 114
SCALE: 1" = 60'



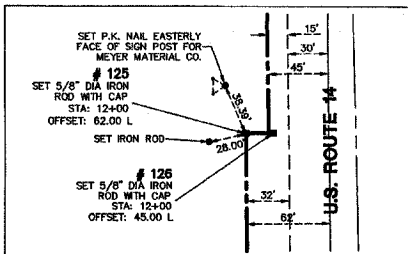
DETAIL OF POINT NO. 117
SCALE: 1" = 60'



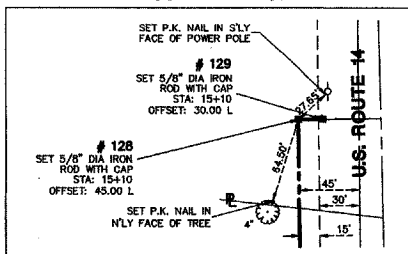
DETAIL OF POINT NO. 120
SCALE: 1" = 60'



DETAIL OF POINT NO. 123
SCALE: 1" = 60'



DETAIL OF POINT NO. 125
SCALE: 1" = 60'



DETAIL OF POINT NO. 128
SCALE: 1" = 60'

COORDINATE TABLE FOR CENTERLINE STATIONS ON ILLINOIS ROUTE 14

STATION	NORTHING	EASTING
4+00	2120036.0593	912511.3999
15+10	2121145.9970	912499.6416

BEARINGS SHOWN HEREON ARE BASED ON ILLINOIS STATE PLANE COORDINATES, EAST ZONE, NORTH AMERICAN DATUM OF 1983. NOS CONTROL POINTS PD A2208 AND A2207 WERE RECOVERED AND USED FOR CONVERSIONS. ALL COORDINATE AND DIMENSIONAL VALUES SHOWN HEREON ARE "GROUND" NOT "GRID".
 COMBINED SCALE FACTOR (GROUND TO GRID) = 0.999940648

12/16/02	ADDED RECOVERY TIES AND MONUMENT RECORDING DATA	W.W.
REVISION DATE	DESCRIPTION	BY

RECORDING: RECORDED ON

1D07 SB1- 3424 SHEET 1 IS A COVER SHEET AND IS NOT RECORDED

MANHARD CONSULTING
 ENGINEERS • SURVEYORS • PLANNERS
 800 FRODOAR PARKWAY • VERNON HILLS, IL 60061
 TEL: 630/294-5550 FAX: 630/294-0288

PLAT OF HIGHWAYS
 STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION
 F.A.P. 066 (U.S. ROUTE 14)
 SECTION: OVER LAWRENCE CREEK McHENRY COUNTY
 PROJECT JOB NO. R-91-038-01
 STATION 4+00 TO STATION 15+10
 SCALE: 1" = 30' N.T.S. SHEET 4 OF 4

BUREAU OF LAND ACQUISITION
 201 WEST CENTER COURT
 SCHAMBURG, ILLINOIS 60196

AS DOCUMENT NO.

Dec 16, 2002 - 13:33 Dwg Name: F:\0007\0007 Project\001\001\001\001.dwg Updated By: bwright

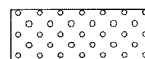


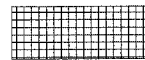


NO.	DATE	BY

3287/ROWPLATS.DGN

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
066	21 (B&G) R	MCHENRY	66	28
STA.	103+00	TO STA.	115+00	
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		

#62391

LANDSCAPE LEGEND

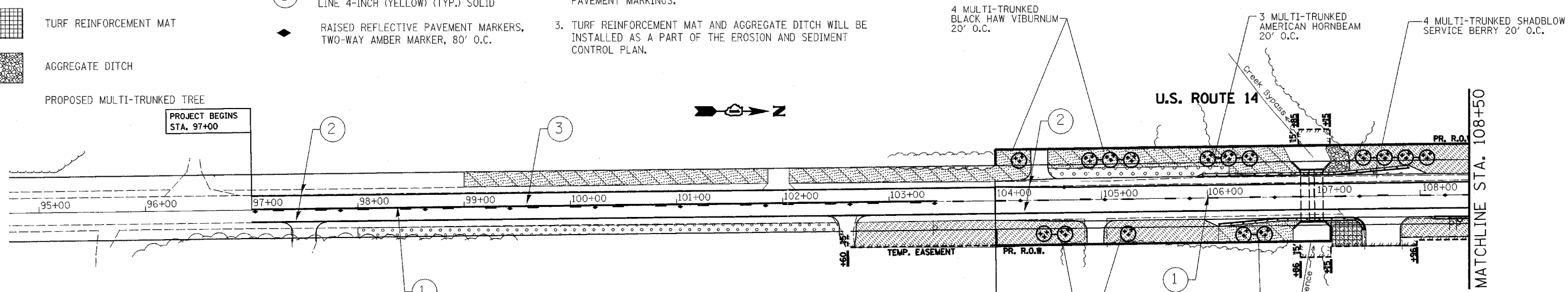
-  SEEDING CLASS 2A AND TOPSOIL FURNISH AND PLACE, 4" WITH EROSION CONTROL BLANKET
-  SEEDING CLASS 4A AND TOPSOIL FURNISH AND PLACE, 4" WITH EROSION CONTROL BLANKET
-  SODDING, SALT TOLERANT AND TOPSOIL FURNISH AND PLACE, 4"
-  TURF REINFORCEMENT MAT
-  AGGREGATE DITCH
-  PROPOSED MULTI-TRUNKED TREE

PAVEMENT MARKING LEGEND

- ① THERMOPLASTIC PVMT MARKING LINE 4-INCH (YELLOW) (TYP.) DASHED
- ② THERMOPLASTIC PVMT MARKING LINE 4-INCH (WHITE) (TYP.) SOLID
- ③ THERMOPLASTIC PVMT MARKING LINE 4-INCH (YELLOW) (TYP.) SOLID
- ◆ RAISED REFLECTIVE PAVEMENT MARKERS, TWO-WAY AMBER MARKER, 80' O.C.

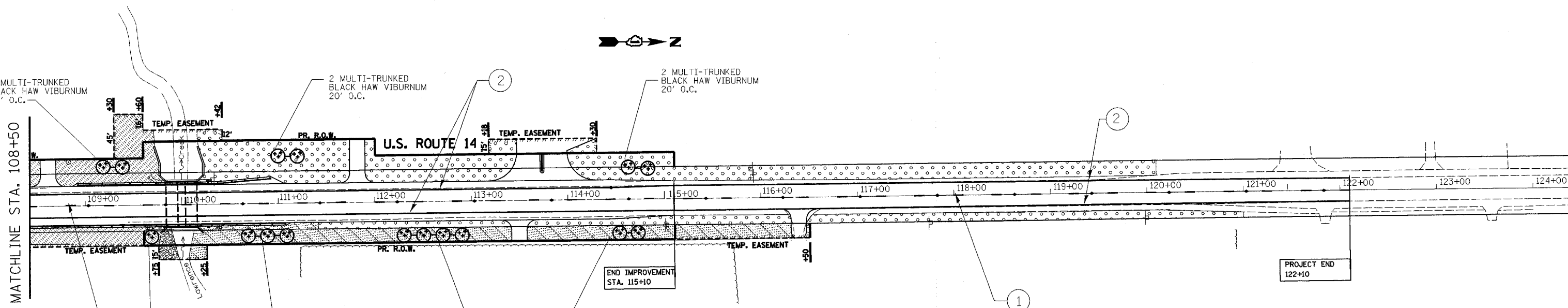
NOTES:

- PERMANENT PAVEMENT MARKINGS SHALL BE THERMOPLASTIC (OF THE EXTRUDED TYPE) CONFORMING TO I.D.O.T. STANDARD SPECIFICATIONS. PERMANENT PAVEMENT MARKINGS SHALL BE IN ACCORDANCE WITH THE "DISTRICT ONE TYPICAL PAVEMENT MARKINGS" DETAIL (TC-13)
- THE RESIDENT ENGINEER SHALL CONTACT THE AREA TRAFFIC FIELD TECHNICIAN, MS. DEBBIE HANLON AT (847) 438-2300 AT LEAST TWO (2) WEEKS PRIOR TO INSTALLATION OF FINAL PAVEMENT MARKINGS.
- TURF REINFORCEMENT MAT AND AGGREGATE DITCH WILL BE INSTALLED AS A PART OF THE EROSION AND SEDIMENT CONTROL PLAN.



RELOCATE SIGN PANEL

STA.	OFFSET	TYPE OF SIGN	FACING
103+41	24 RT	NO PASSING ZONE	NORTH
107+58	22 LT	ILLINOIS VEHICLE HEIGHT LIMIT	NORTH
110+31	25 LT	CLICK IT OR TICKET	NORTH
115+91	23 LT	ILLINOIS WELCOME	NORTH
117+77	28 RT	TRUCK	SOUTH
119+99	26 RT	BIG FOOT INFORMATION AND 45 MPH SPEED LIMIT	SOUTH



REVISIONS	
NAME	DATE

ILLINOIS DEPARTMENT OF TRANSPORTATION
 U.S. ROUTE 14 OVER LAWRENCE CREEK
PROPOSED PAVEMENT MARKINGS AND LANDSCAPING

SCALE: 1" = 50'
 DATE: 2-11-05

DRAWN BY: CLG
 CHECKED BY: JJD



328TPAVM.RK.DGN

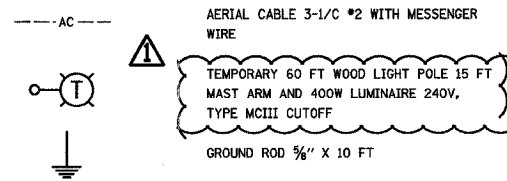
F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
066	21 (B&G) R	McHENRY	66	29
STA.		TO STA.		
FED. ROAD DIST. NO.		ILLINOIS FED. AID PROJECT		

#62391

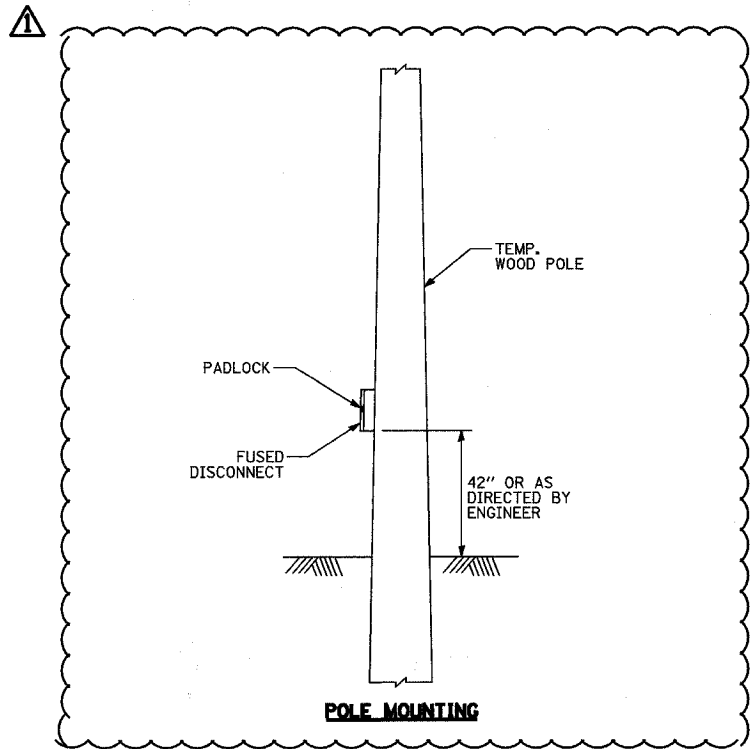
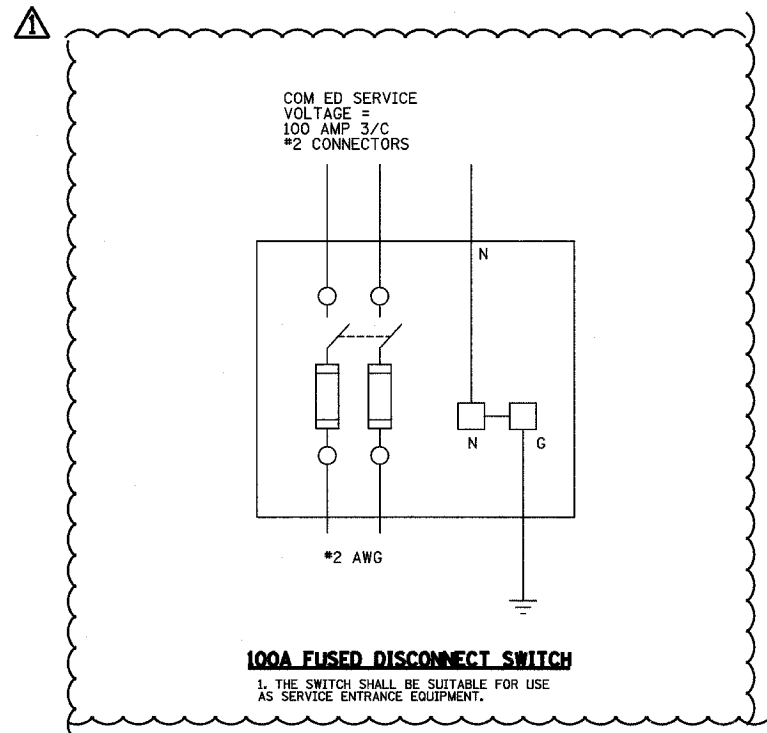
GENERAL NOTES

- 1- ALL WORK SHALL CONFORM TO THE LATEST NATIONAL ELECTRIC CODE AND IDOT STANDARD SPECIFICATIONS.
- 2- ALL ELECTRICAL EQUIPMENT AND DEVICES SHALL BE U.L. LISTED AND LABELED.
- 3- ALL CIRCUIT WIRES SHALL BE LABELED AND IDENTIFIED.
- 4- REFER TO SHEET STAGE I LIGHTING PLAN FOR ADDITIONAL INFORMATION.

LEGEND



- 5- EVERY THIRD LIGHT POLE ASSEMBLY SHALL BE GROUNDED. SEE TEMPORARY LIGHTING DETAILS SHEET.
- 6- SERVICE NEUTRAL CONDUCTOR TO BE BONDED AT SERVICE ENTRANCE EQUIPMENT ONLY, PER N.E.C. ARTICLE 250.



3287/TEMPLIGHTD.TLS.DGN

REVISIONS		ILLINOIS DEPARTMENT OF TRANSPORTATION U.S. ROUTE 14 OVER LAWRENCE CREEK TEMPORARY LIGHTING NOTES, LEGEND, AND POLE MOUNTING DETAIL
NAME	DATE	
KWN	4-11-05	SCALE: N.T.S. DATE: 3-09-05

Applied Technologies

DRAWN BY: JPG
CHECKED BY: GAG


F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
066	21 (B&G) R	MCHENRY	66	30
STA.	95+00	TO STA.	126+00	
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		

#62391

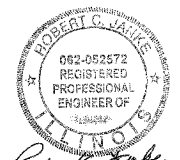
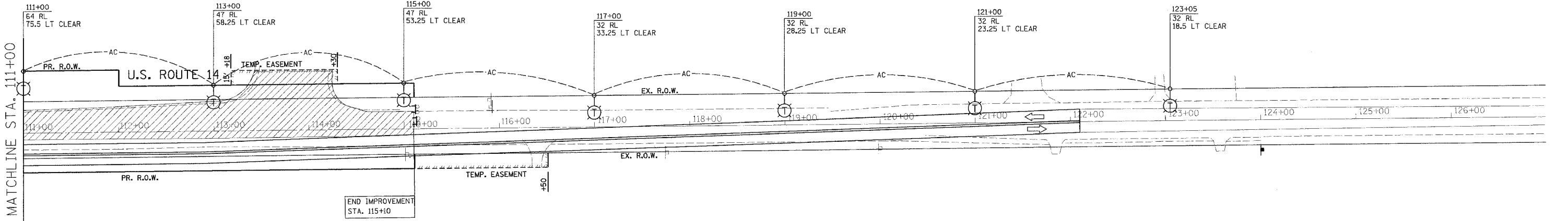
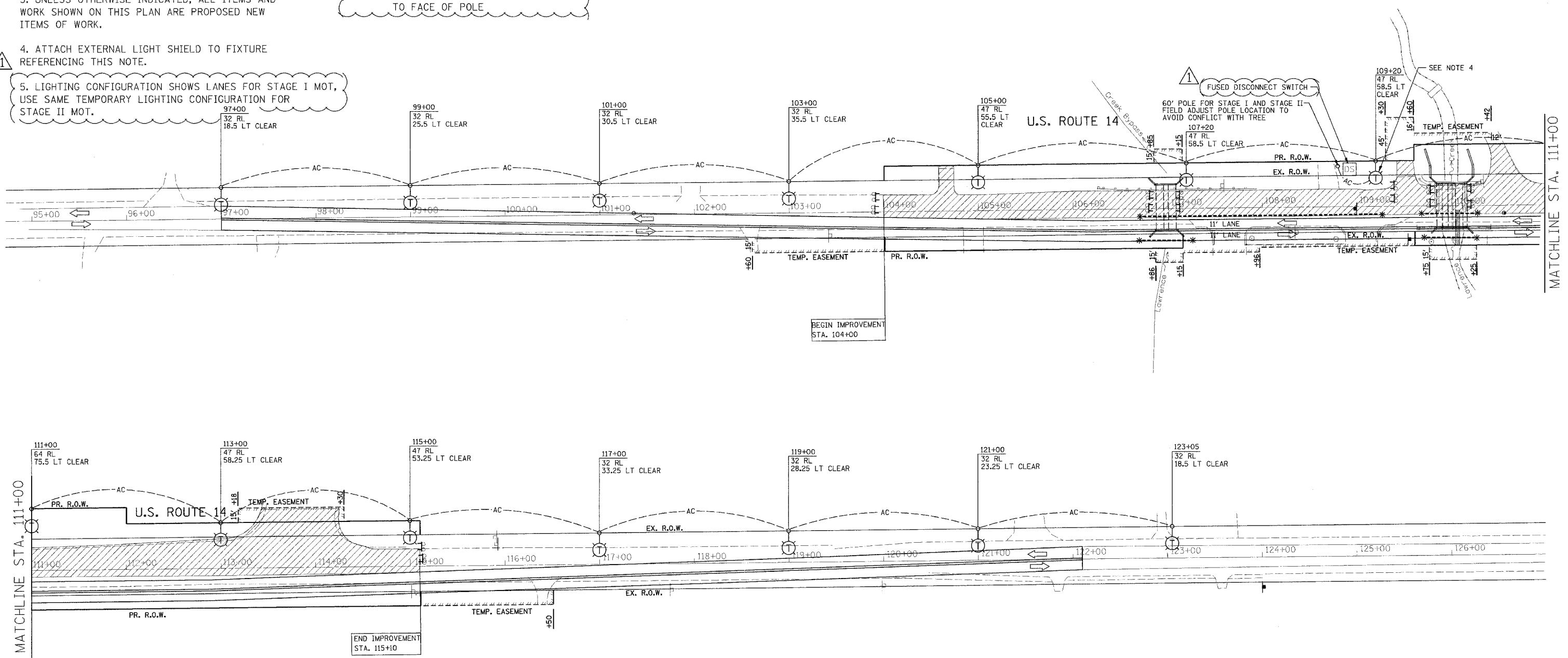
TEMPORARY LIGHTING NOTES:

1. REFER TO DETAILS FOR ADDITIONAL INFORMATION.
2. CONTRACTOR SHALL VERIFY POLE, DISTRIBUTION PANEL, AND METERING SOCKET LOCATIONS SHOWN, PRIOR TO INSTALLATION.
3. UNLESS OTHERWISE INDICATED, ALL ITEMS AND WORK SHOWN ON THIS PLAN ARE PROPOSED NEW ITEMS OF WORK.
4. ATTACH EXTERNAL LIGHT SHIELD TO FIXTURE REFERENCING THIS NOTE.

SYMBOLS

-  CONSTRUCTION AREA
- RL DISTANCE FROM REFERENCE LINE TO CENTER OF POLE
- CLEAR DISTANCE FROM EDGE OF TRAVELED PAVEMENT (MOT LANE) TO FACE OF POLE

5. LIGHTING CONFIGURATION SHOWS LANES FOR STAGE I MOT, USE SAME TEMPORARY LIGHTING CONFIGURATION FOR STAGE II MOT.



Applied Technologies

REVISIONS	
NAME	DATE
KWN	3-31-05

ILLINOIS DEPARTMENT OF TRANSPORTATION
 U.S. ROUTE 14 OVER LAWRENCE CREEK
TEMPORARY LIGHTING PLAN STAGE I & II

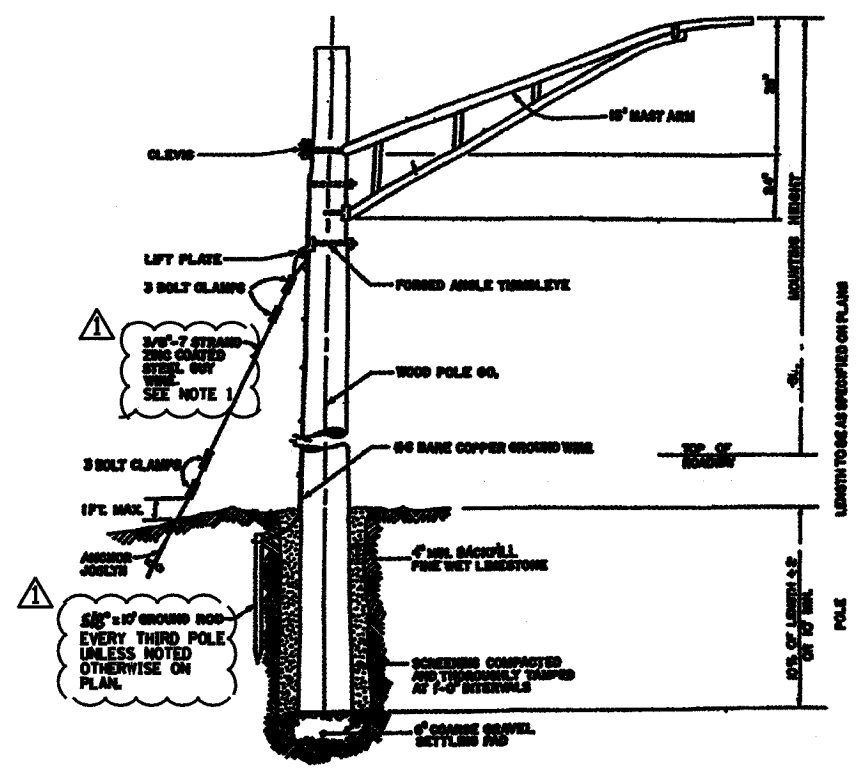
SCALE: 1" = 50'
 DATE: 3-09-05
 DRAWN BY: CLG
 CHECKED BY: GAG

3287LIGHTPLAN1.DGN

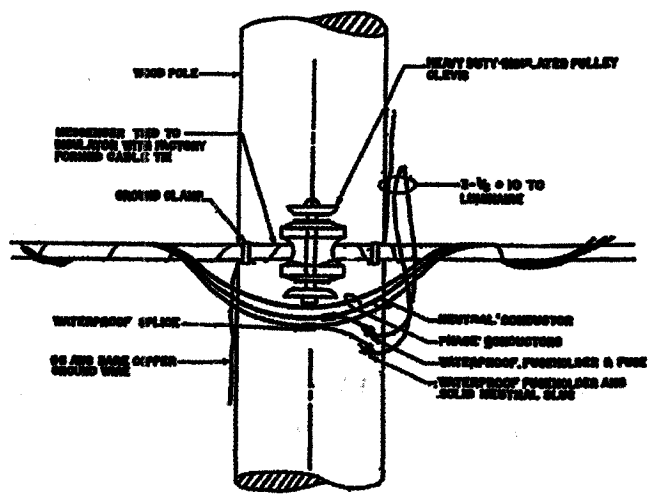
* Sheet 31 is deleted *

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
066	21 (B&G) R	MCHEMRY	66	32
STA.		TO STA.		
FED. ROAD DIST. NO.	ILLINOIS FED. AID PROJECT			

#62391

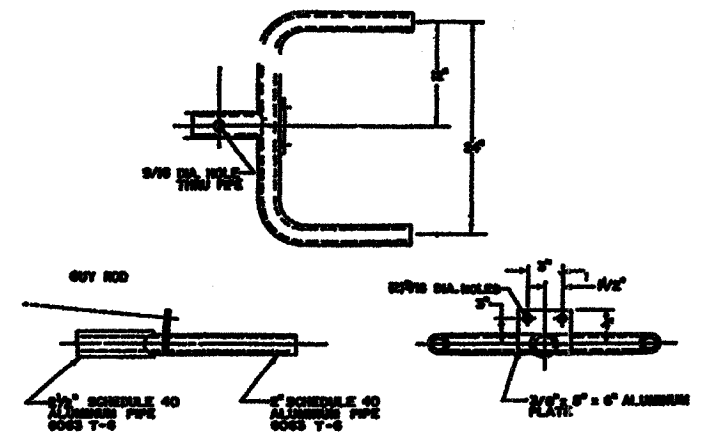


TEMPORARY LIGHT POLE DETAIL

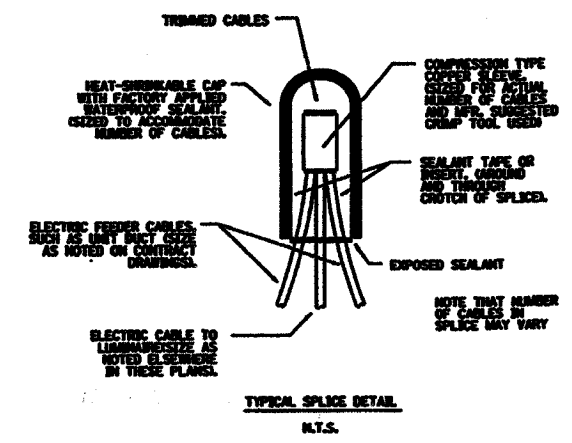


TEMPORARY LIGHT POLE GABLE ATTACHMENT DETAIL

NOTES:
1. GUY WIRES SHALL INCLUDE 6\"/>



DUPLIX BRACKET DETAIL



TYPICAL SPLICE DETAIL
N.T.S.

3287/TEMPLIGHTDLS.DGN

REVISIONS	
NAME	DATE
KWN	3-31-05

ILLINOIS DEPARTMENT OF TRANSPORTATION
U.S. ROUTE 14 OVER LAWRENCE CREEK
TEMPORARY LIGHTING DETAILS

Applied Technologies

SCALE: N.T.S.
DATE: 2-28-05
DRAWN BY: JPG
CHECKED BY: GAG

Bench Mark: Chiseled Square on Northwest Wingwall, El. 959.50.

Existing Structure: The existing structure was built in 1924 and extended in 1932. The existing structure was constructed using a two barrel precast box culvert. Total length of the culvert is 51'-6".

The existing structure shall be removed and replaced with a three barrel precast concrete box culvert utilizing staged construction.

No salvage.

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET	SHEET NO. 1
F.A.P. 066	21B&G/R	McHENRY	66	33	8 SHEETS
FED. ROAD DIST. NO. 7	ILLINOIS	FED. AID PROJECT			

#62391

STATION 110+00
BUILT BY
STATE OF ILLINOIS
FAP RT 066 SEC 21(B&G/R)
FA PROJ.
LOADING HS20
STR. NO. 056-0074

NAME PLATE
See Std. 515001

LOADING HS20-44
Allow 50#/sq. ft. for future wearing surface.

DESIGN SPECIFICATIONS
1996 AASHTO with 1997 thru 2002 Interims

DESIGN STRESSES

FIELD UNITS

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

PRECAST UNITS

$f'_c = 5,000$ psi
 $f_y = 65,000$ psi (Welded Wire Fabric)

WATERWAY INFORMATION

Drainage Area = 2.1 mi² Low Grade El. 960.43 @ Sta. 15+10

Flood	Freq. Yr.	C.F.S.	Opening Sq. Ft.		Nat. H.W.E.	Head - Ft.		Headwater El.		
			Exist.	Prop.		Exist.	Prop.	Exist.	Prop.	
Design	10	558	86.6	114.56	958.13	0.59	0.00	957.65	957.26	
Base	50	958	100	147.52	959.14	1.38	0.00	960.53	958.34	
Overtopping	100	1095	100	154.24	959.35	1.29	0.00	960.65	958.53	
Max. Calc.	N/A	500	2006	100	168	960.16	1.15	0.00	961.31	959.89

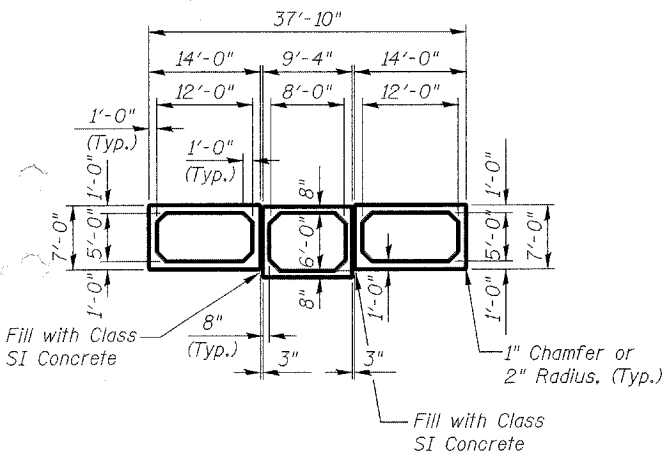
LEGEND

(A-1) Precast Concrete Box Culvert Cell Number

GENERAL NOTES

1. Reinforcement bars shall conform to the requirements of AASHTO M-31, M-42, or M-53 Grade 60.
2. The Contractor shall divert the water flow from the construction area using a suitable method as approved by the resident engineer prior to implementation. Cost incidental to "Precast Concrete Box Culverts."
3. Temporary concrete barriers shall be provided for Stage Construction. See Standard 704001. Pay item for Temporary Concrete Barriers is included in the Roadway Plans.
4. This box culvert has a fill height of less than 2.0 feet. The precast concrete box culvert shall conform to the requirement of AASHTO M-273.
5. Pay item for Steel Plate Beam Guardrail is included in the Roadway Plans. See Standard 630001.
6. Pay item for Sub Base Granular Material, Topsoil, and Seeding are included in the Roadway Plans.

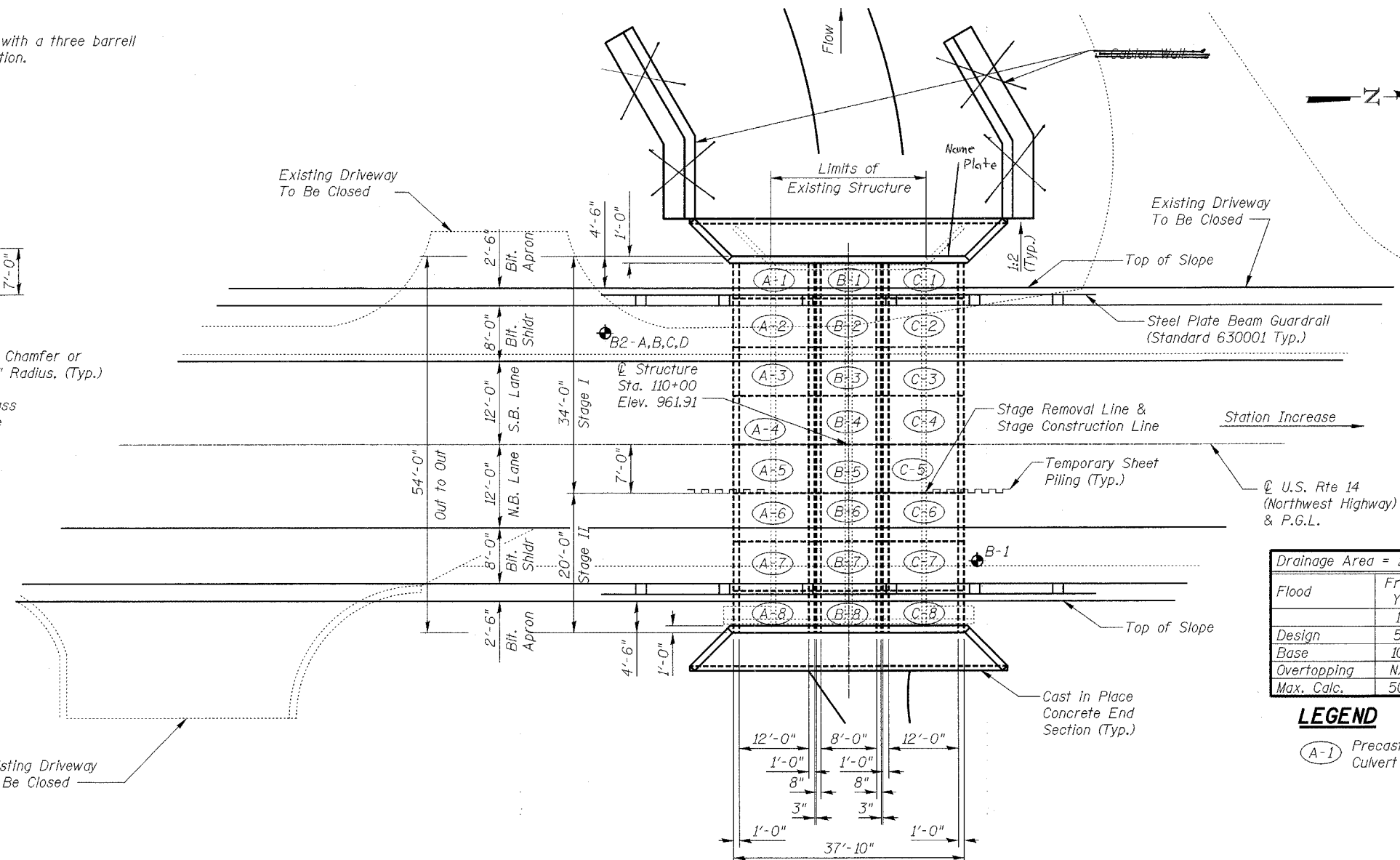
GENERAL PLAN
U.S. ROUTE 14
(NORTHWEST HIGHWAY)
OVER LAWRENCE CREEK
FAP 066 SECTION 21(B&G/R)
McHENRY COUNTY
STATION 110+00.00
STRUCTURE NO. 056-0074



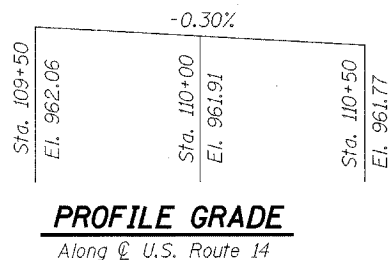
SECTION THRU CULVERT

INDEX OF SHEETS

Sheet no.	Description
1	General Plan
2	Construction Details and Bill of Materials
3	Box Culvert End Section Details
4	Box Culvert Details
5	Temporary Concrete Barrier for Stage Construction
6	Boring Log-1
7	Boring Log-2ABC
8	Boring Log-2D

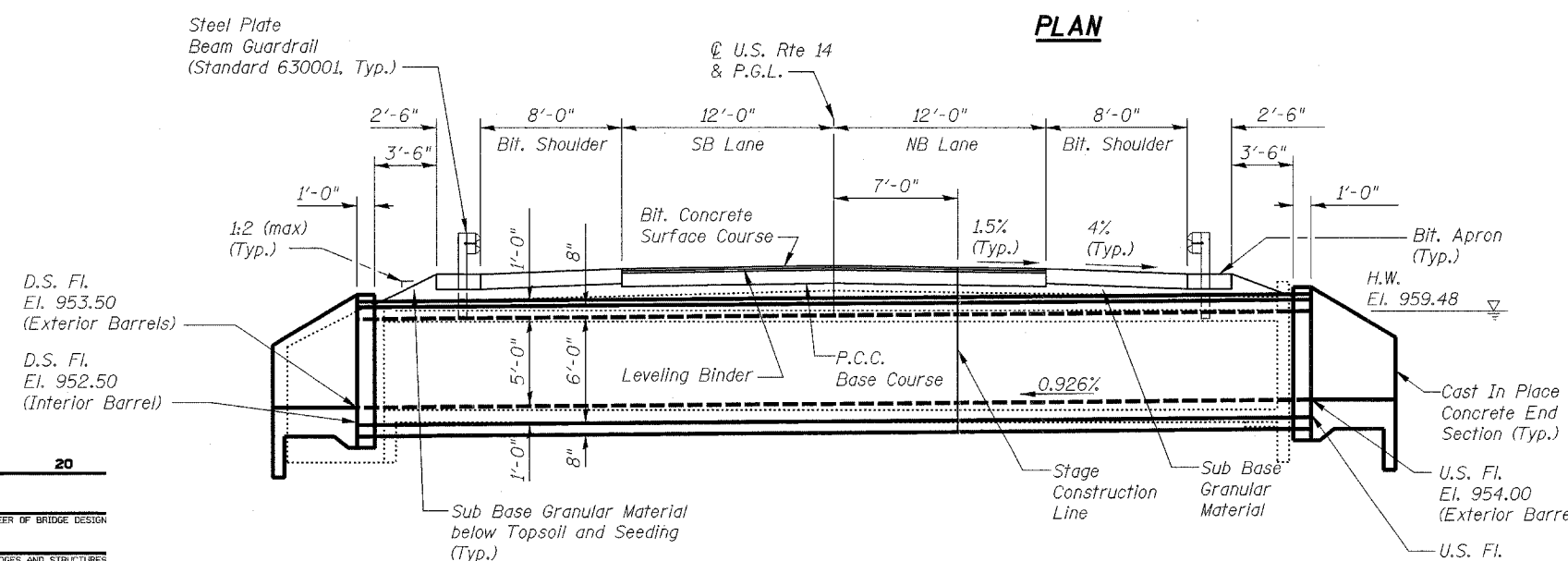


PLAN



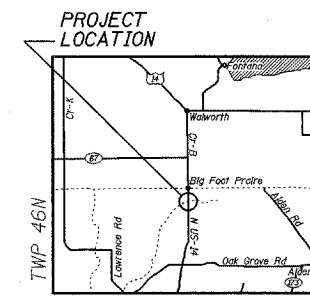
PROFILE GRADE

Along U.S. Route 14



ELEVATION

(Looking North)

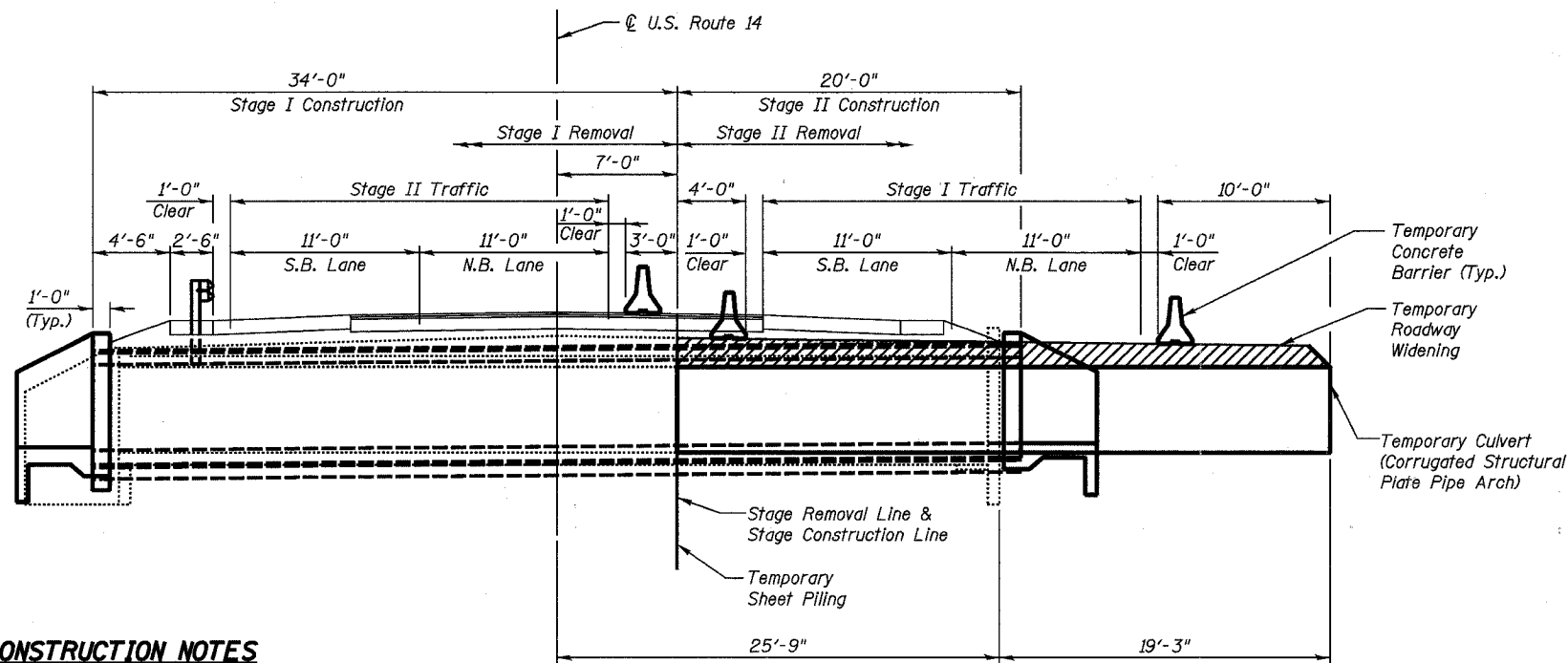


LOCATION SKETCH

DESIGNED	RFS	20
CHECKED	LLP	ENGINEER OF BRIDGE DESIGN
DRAWN	JPG	ENGINEER OF BRIDGES AND STRUCTURES
CHECKED	RFS	

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.	SHEET NO. 2
F.A.P. 066	21(B&G)R	McHENRY	66	34	8 SHEETS
FED. ROAD DIST. NO. 7	ILLINOIS	FED. AID PROJECT-			#62391



TOTAL BILL OF MATERIAL

ITEM	UNIT	TOTAL
Rock Excavation	C.Y.	50
Removal & Disposal of Unsuitable Material	C.Y.	100
Channel Excavation	C.Y.	465
Porous Granular Embankment	C.Y.	190
 Gabions	C.Y.	50
Removal of Existing Structures, No. 1	Each	1
Structure Excavation	C.Y.	80
Temporary Sheet Piling	S.F.	880
Name Plates	Each	1
Box Culvert End Sections	Each	2
Precast Concrete Box Culvert 8' x 6'	L.F.	54
Precast Concrete Box Culvert 12' x 5'	L.F.	108
Corrugated Structural Plate Pipe Arches 51 Sq. Ft.	L.F.	38
 Filter Fabric	C.Y.	74

STAGE CONSTRUCTION NOTES

Pre-Stage I Construction

1. Install temporary culvert at the existing northeast culvert barrel.
2. Place temporary pavement on the east side of roadway outside the existing pavement and over the temporary culvert.

Stage I Construction

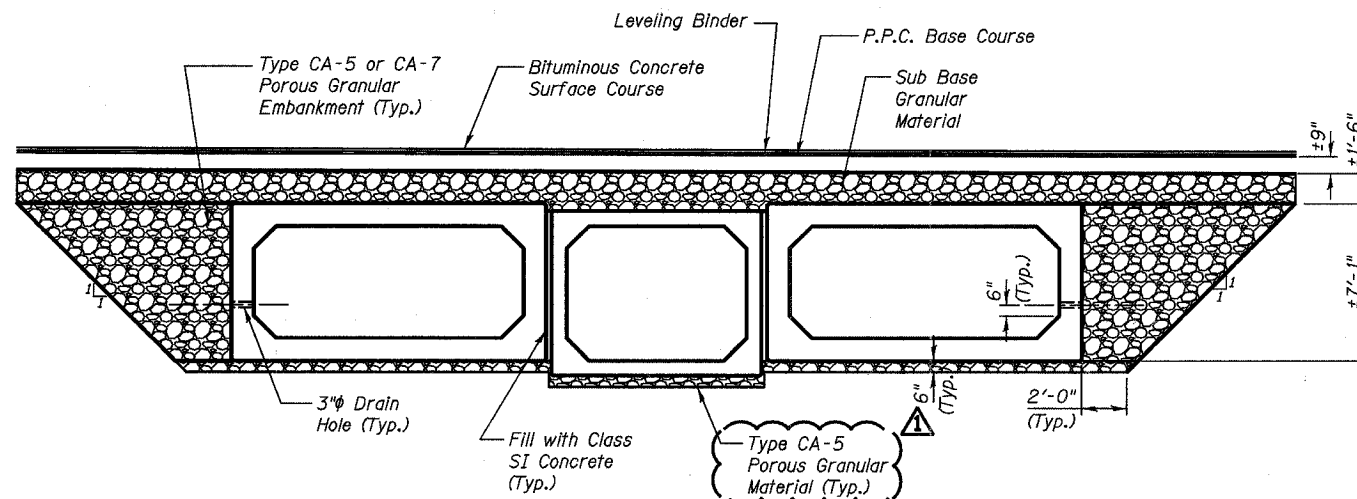
1. Establish Stage I Maintenance of Traffic.
2. Re-route traffic over temporary pavement.
3. Remove western portion of existing culvert.
4. Construct western portion of box culvert.

Stage II Construction

1. Establish Stage II Maintenance of Traffic.
2. Re-route traffic over Stage II Maintenance of Traffic limits.
3. Remove eastern portion of existing culvert, temporary culvert, and temporary pavement.
4. Construct eastern portion of box culvert.
5. Remove Stage II Maintenance of Traffic.

STAGE CONSTRUCTION DETAILS

(Looking North)



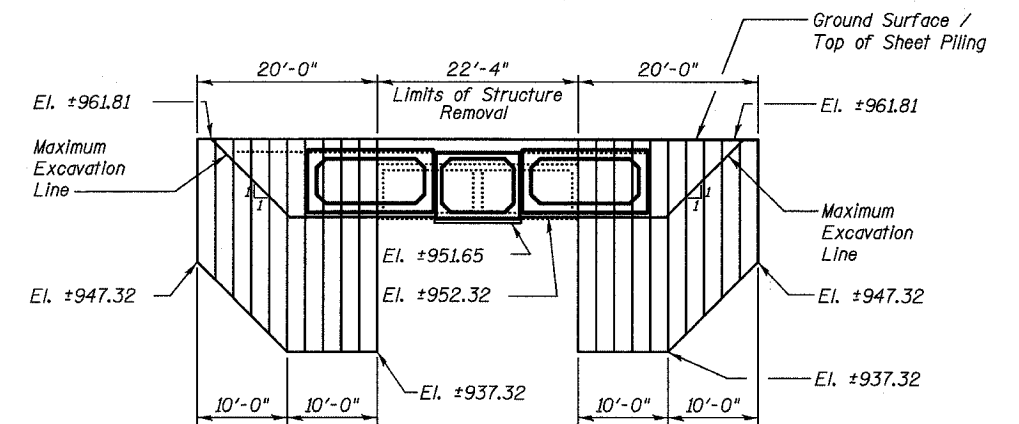
BACKFILL DETAILS

BACKFILL NOTES

1. Place type CA-5 porous granular material underneath the box culverts to the limits shown on the plans or as directed by the Engineer. Porous granular material shall be included in the cost for Precast Concrete Box Culverts. See Section 540 of the Standard Specifications.

2. Place type CA-5 or CA-7 porous granular embankment above the type CA-5 porous granular material to the bottom of the sub base granular material, as shown on the plans or as directed by the Engineer. To be paid for as Porous Granular Embankment.

NOTE:
Box culvert foundations bearing upon suitable natural soils shall be designed for a maximum net allowable soil bearing capacity of 2000 pounds per square foot.



TEMPORARY SHEET PILING DETAILS

TEMPORARY SHEET PILING NOTES

1. Minimum Section Modulus of the Temporary Sheet Piling shall be 14.0 In³/ft.
2. If the Contractor chooses to alter the temporary cantilevered sheet piling design requirements shown on the plans, a design submittal including plan details and calculations will be required for review and acceptance by the Engineer.
3. Hard driving may be encountered during the sheet piling installation. The Contractor shall provide the appropriate driving equipment for the soil conditions indicated on the boring logs.

DESIGNED	RFS
CHECKED	LLP
DRAWN	JPG
CHECKED	RFS
REVISED	3-31-05 KWN

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

CONSTRUCTION DETAILS
AND BILL OF MATERIALS
U.S. ROUTE 14
(NORTHWEST HIGHWAY)
OVER LAWRENCE CREEK
FAP 066 SECTION 21(B&G)R
McHENRY COUNTY
STATION 110+00.00
STRUCTURE NO. 056-0074

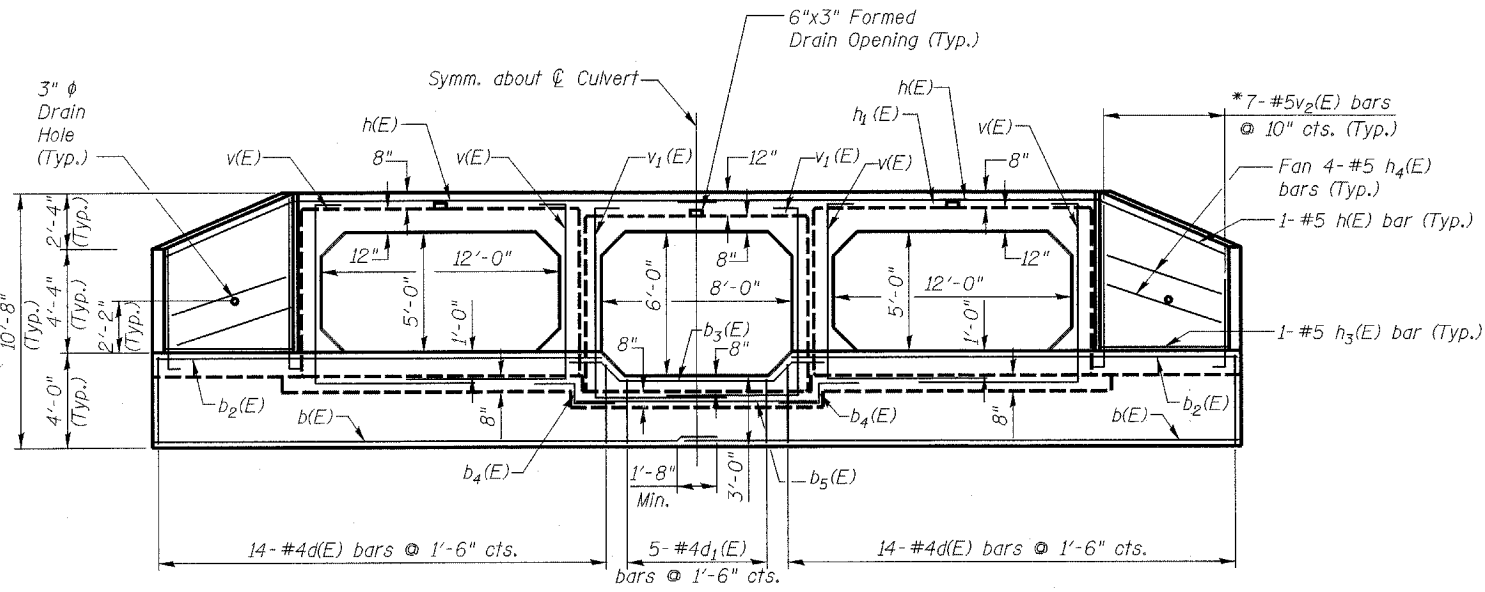
4-14-05

Rev.

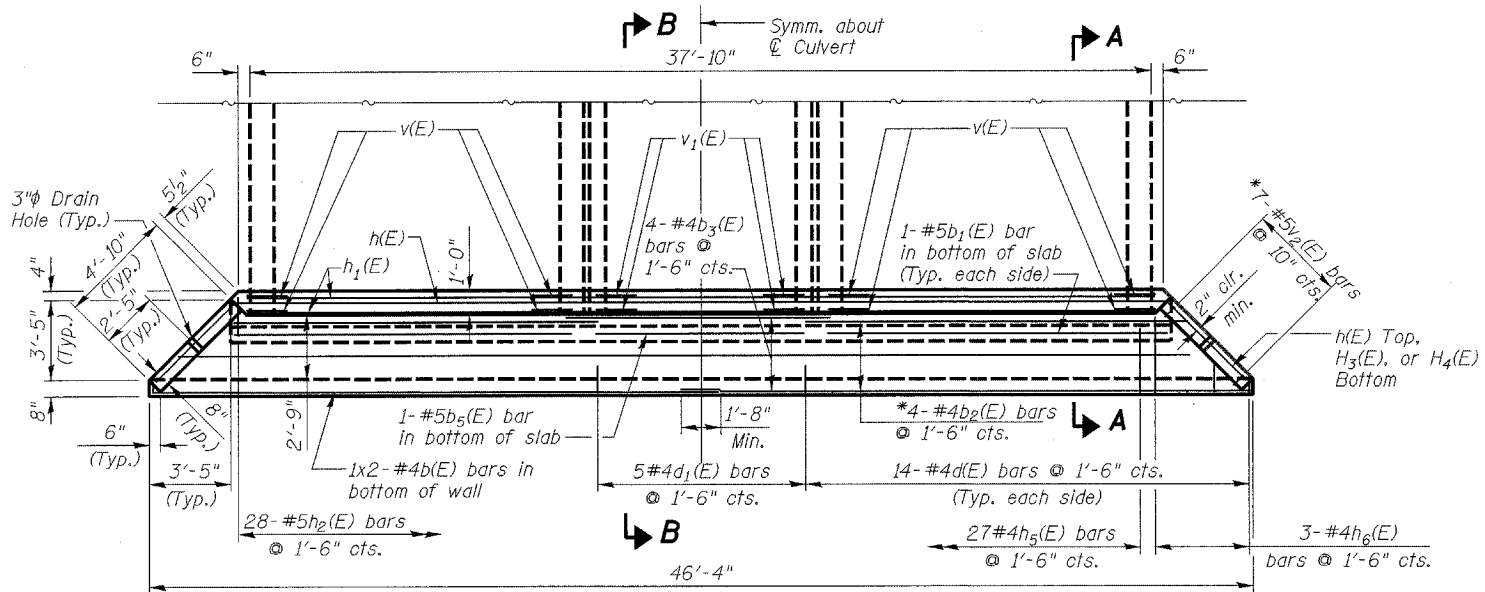
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.	SHEET NO. 3
F.A.P. 066	21(B&G)R	McHENRY	66	35	8 SHEETS
FED. ROAD DIST. NO. 7	ILLINOIS	FED. AID PROJECT			

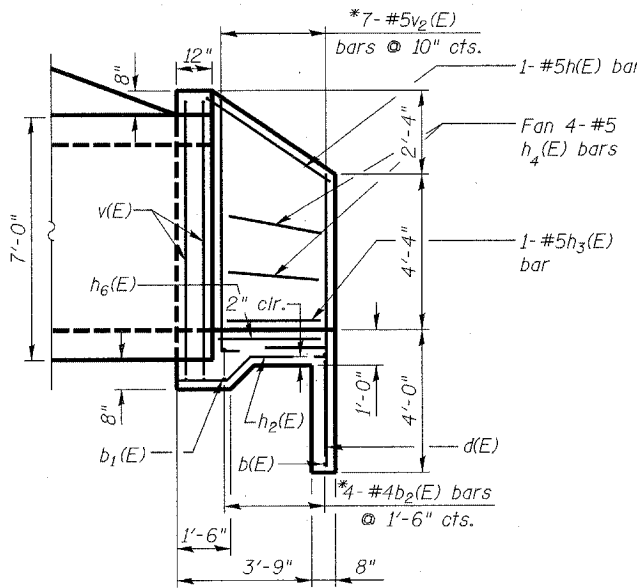
#62391



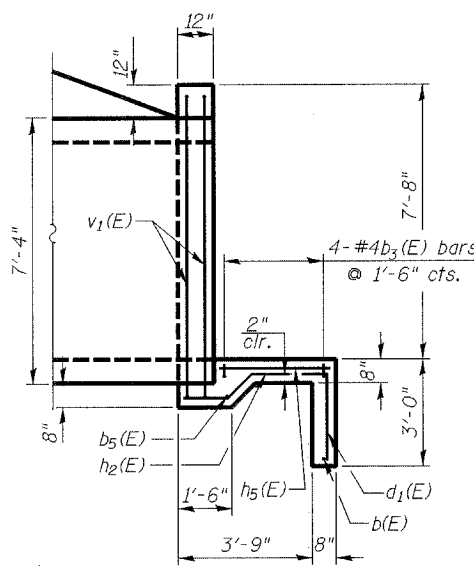
END ELEVATION



PLAN



SECTION A-A



SECTION B-B

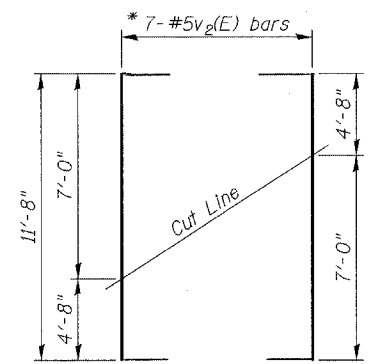
***BILL OF MATERIAL

Bar	No.	Size	Length	Shape
b(E)	4	#4	23'-10"	—
b1(E)	4	#5	14'-6"	—
b2(E)	8	#4	32'-0"	—
b3(E)	8	#4	14'-0"	—
b4(E)	4	#5	4'-0"	—
b5(E)	2	#5	9'-4"	—
d(E)	56	#4	6'-4"	└
d1(E)	10	#4	5'-4"	└
h(E)	4	#5	25'-4"	└
h1(E)	4	#5	37'-10"	└
h2(E)	56	#5	3'-9"	└
h3(E)	4	#5	4'-6"	└
h4(E)	16	#5	5'-5"	└
h5(E)	54	#4	3'-1"	└
h6(E)	6	#4	3'-4"	└
v(E)	16	#5	17'-4"	└
v1(E)	8	#5	15'-8"	└
v2(E)	14	#5	16'-2"	└
Reinforcement Bars (Epoxy Coated)			Lbs.	2060
Concrete Structures			Cu. Yds.	40

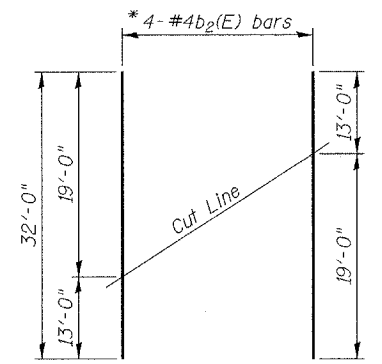
** For Information Only. The items in this table are not paid for separately, but are included in the cost of "Box Culvert End Sections."

The above table includes quantities for two box culvert end sections.

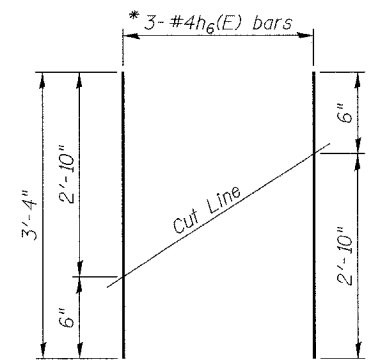
Reinforcement bars designated (E) shall be epoxy coated.



FIELD CUTTING DIAGRAM

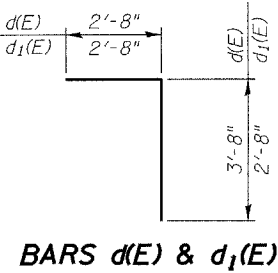


FIELD CUTTING DIAGRAM

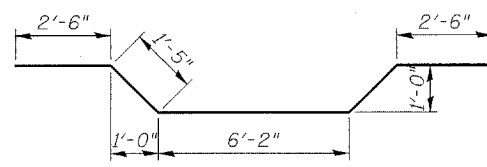


FIELD CUTTING DIAGRAM

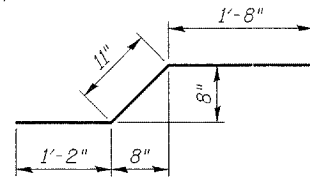
* Order v2(E), b2(E), and h6(E) bars full length. Cut to fit as shown and use remainder or bars in other side of apron.



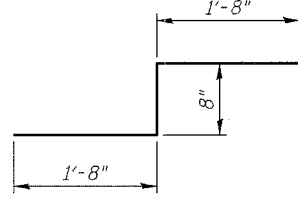
BARS d(E) & d1(E)



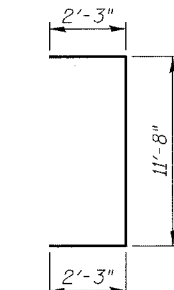
BAR b3(E)



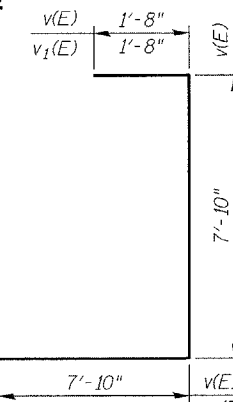
BAR h2(E)



BAR b4(E)



BAR v2(E)



BARS v(E) & v1(E)

DESIGNED	RFS
CHECKED	LLP
DRAWN	JPG
CHECKED	RFS

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

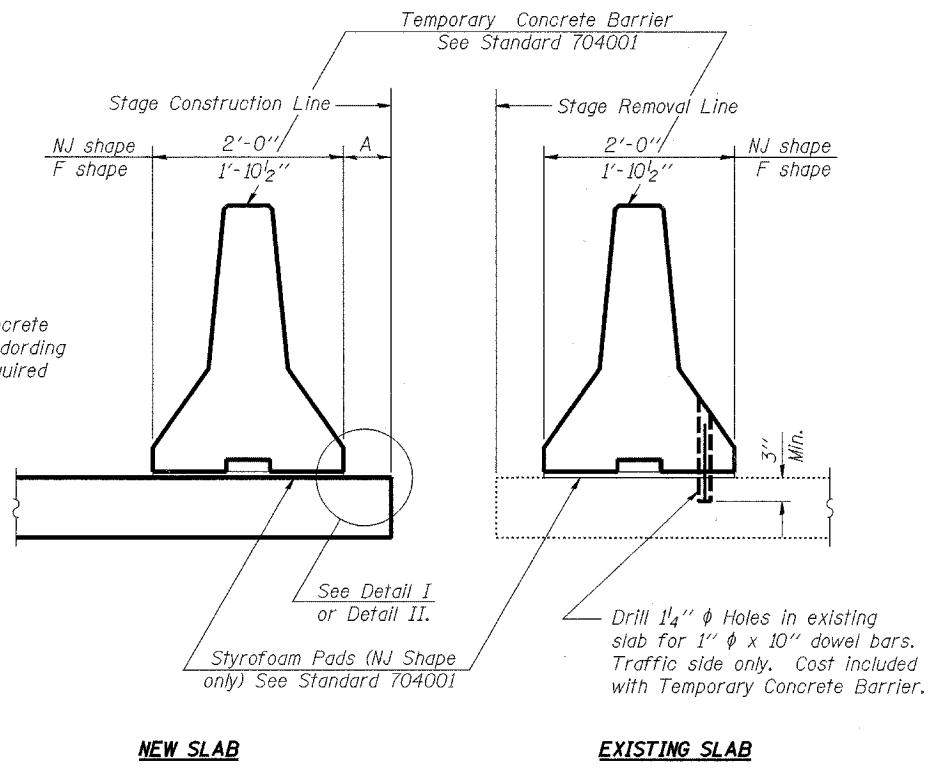
BOX CULVERT END SECTION DETAILS
U.S. ROUTE 14
(NORTHWEST HIGHWAY)
OVER LAWRENCE CREEK
FAP 066 SECTION 21(B&G)R
McHENRY COUNTY
STATION 110+00.00
STRUCTURE NO. 056-0074

pg 36 is Deleted

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.	SHEET NO. 5 8 SHEETS
F.A.P. 066	21B&GJR	McHENRY	66	37	
FED. ROAD DIST. NO. 7		ALIGNMENT	FED. AID PROJECT-		

#62391

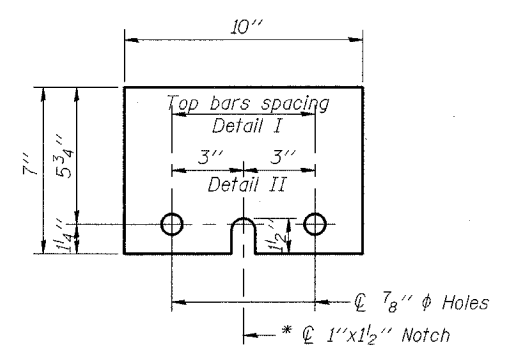
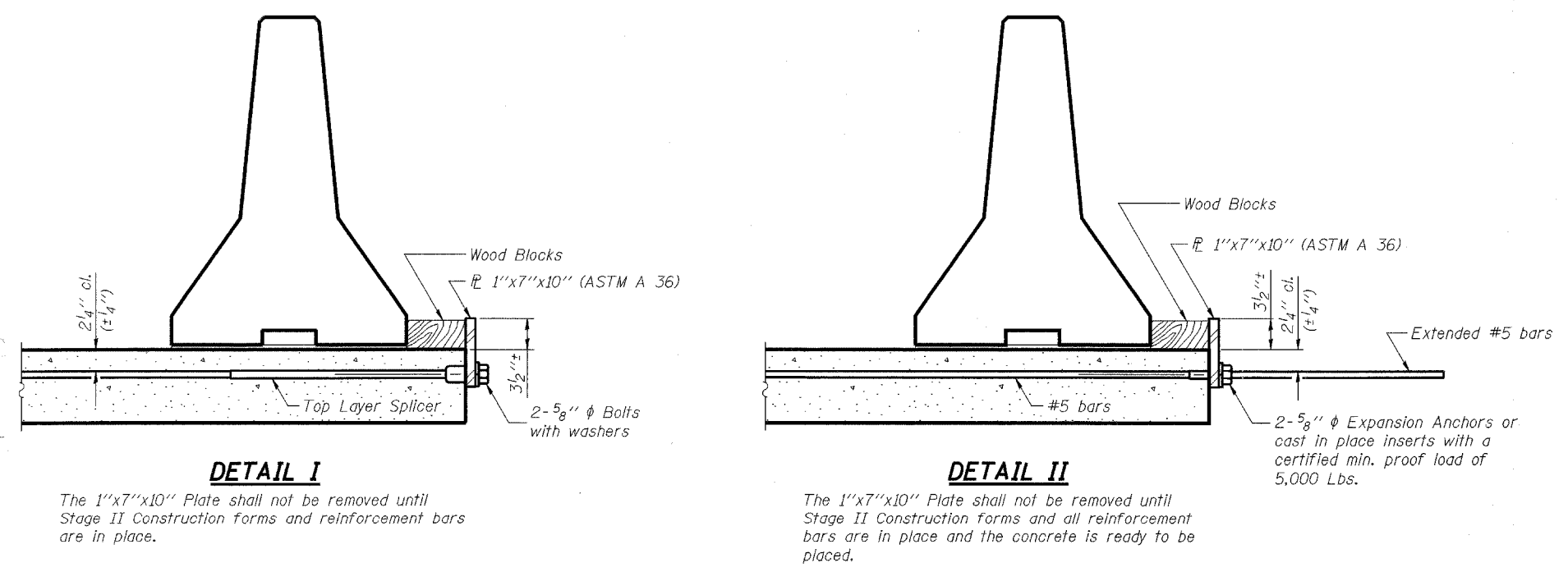


When "A" is 3'-6" or less, the temporary concrete barrier shall be Anchored to the new slab according to Detail I or Detail II. No anchorage is required when "A" is greater than 3'-6".

NOTES

- Detail I - With Bar Splicer or Couplers:
Connect one (1) 1"x7"x10" steel PL to the top layer of couplers with 2-5/8" φ bolts screwed to coupler at approximate C of each barrier panel.
 - Detail II - With Extended Reinforcement Bars:
Connect one (1) 1"x7"x10" steel PL to the concrete slab with 2-5/8" φ Expansion Anchors or cast in place inserts spaced between the top layer of reinforcement at approximate C of each barrier panel.
- Cost of anchorage is included with Temporary Concrete Barrier.

SECTIONS THRU SLAB



PL 1"x7"x10"

* Required only with Detail II

DESIGNED	RFS	20
CHECKED	LLP	EXAMINED
DRAWN	JPG	PASSED
CHECKED	RFS	ENGINEER OF BRIDGES AND STRUCTURES

**TEMPORARY CONCRETE BARRIER
FOR STAGE CONSTRUCTION
U.S. ROUTE 14
(NORTHWEST HIGHWAY)
OVER LAWRENCE CREEK
FAP 066 SECTION 21(B&G)R
McHENRY COUNTY
STATION 110+00.00
STRUCTURE NO. 056-0074**

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

ROUTE NO.	DISTRICT	COUNTY	SECTION	SHEET NO.
F.A.P. 066	21B&G/R	McHENRY	66	40
FED. ROAD DIST. NO. 7	ILLINOIS	FED. AID PROJECT		

#62391



Illinois Department
of Transportation
Division of Highways
Illinois Dept of Transportation

SOIL BORING LOG

Page 1 of 1

Date 2/7/02

ROUTE FAP Route 66 DESCRIPTION US 14 Over Lawrence Creek LOGGED BY Tal Salavmeh

SECTION _____ LOCATION NE1/4, SEC. 1, TWP. 46N, RNG. 5E, 3rd PM

COUNTY McHenry DRILLING METHOD CME-750, 3.25" ID HSA HAMMER TYPE CME Automatic

STRUCT. NO. 056-2000(Exis.)
056-3168 (Prop.)
Station 110+00

BORING NO. B-2ABC
Station 109+80, 109+75, 109+70
Offset 16.00R L To CL
Ground Surface Elev. 960.12 ft

DEPTH	TEST	UCS	MOIST
(ft)	(6")	(tsf)	(%)

Surface Water Elev. 953.22 ft
Stream Bed Elev. 952.72 ft
Groundwater Elev.:
First Encounter Dry ft
Upon Completion Dry ft
After Hrs. ft

Brown SAND and GRAVEL
(Shoulder)

Stiff Brown SANDY LOAM

Auger Refusal Hitting Hard
Object, Possibly Large Rock or
Boulder
Three Boring Attempts Hit
Obstruction or Obstructions
End of Boring

The Unconfined Compressive Strength (UCS) Failure Mode is indicated by (B-Bulge, S-Shear, P-Penetrometer)
The SPT (N value) is the sum of the last two blow values in each sampling zone (AASHTO T206)

BBS, from 137 (Rev. 8-99)

DESIGNED	RFS
CHECKED	LLP
DRAWN	IPG
CHECKED	RFS

EXAMINED	20
PASSED	

BORING LOG 2ABC
U.S. ROUTE 14
(NORTHWEST HIGHWAY)
OVER LAWRENCE CREEK
FAP 066 SECTION 21B&G/R
McHENRY COUNTY
STATION 110+00.00
STRUCTURE NO. 056-0074

Bench Marks: #1 Chiseled "X" in west face of concrete walk, 11.04' southwest of northwest corner of concrete foundation for tavern. Sta. 108+50, 85' RT. EL. 959.70

#2 Chiseled "X" at southeast corner of transformer pad. Sta. 114+35, 75' LT. EL. 957.37

Existing Structure: 24-inch diameter reinforced concrete pipe at downstream end that increases to 42-inch diameter pipe at upstream end. The total length is approximately 38'-6".

The existing structure shall be removed and replaced with a precast concrete box culvert utilizing staged construction.

No salvage.

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.	SHEET NO. 1
F.A.P. 066	2(B&G)R	McHENRY	66	41	6 SHEETS
FED. ROAD DIST. NO. 7	ILLINOIS	FED. AID PROJECT-			

#62391

STATION 107+00
BUILT BY
STATE OF ILLINOIS
FAP RT 066 SEC 2(B&G)R
FA PROJ.
LOADING HS20
STR. NO. 056-0075
NAME PLATE
See Std. 515001

LOADING HS20-44
Allow 50#/sq. ft. for future wearing surface.

DESIGN SPECIFICATIONS
1996 AASHTO with 1997 thru 2002 Interims

DESIGN STRESSES

FIELD UNITS

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

PRECAST UNITS

$f'_c = 5,000$ psi
 $f_y = 65,000$ psi (Welded Wire Fabric)

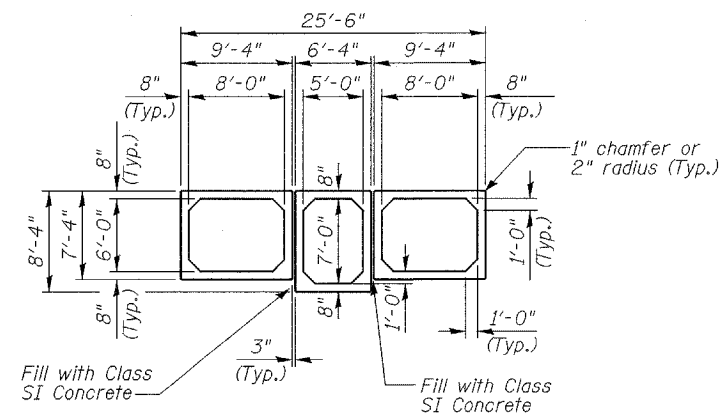
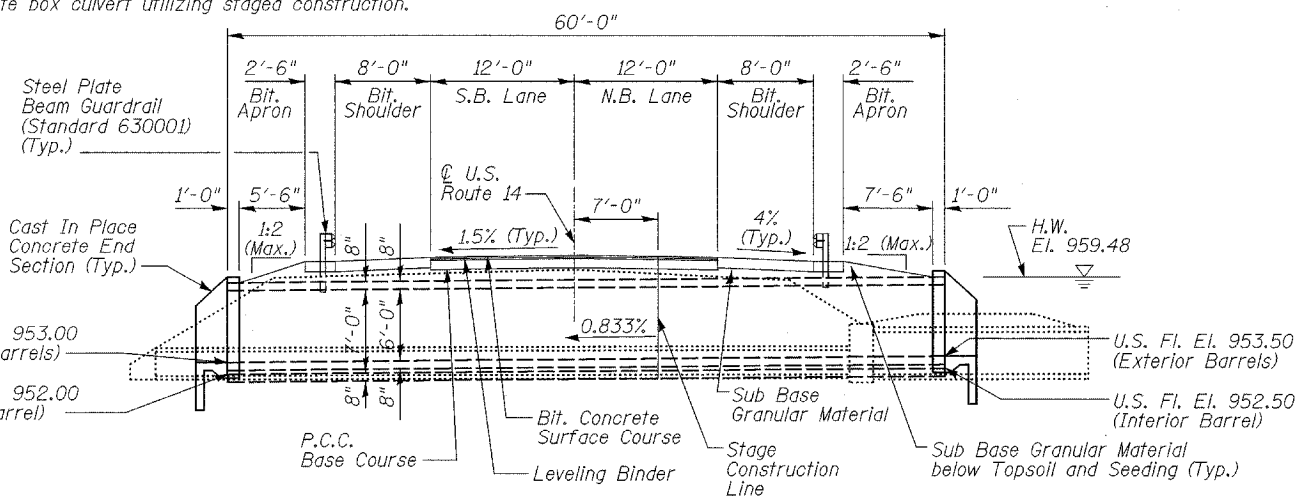
GENERAL NOTES

1. Reinforcement bars shall conform to the requirements of AASHTO M-31, M-42, or M-53 Grade 60.
2. The Contractor shall divert the water flow from the construction area using a suitable method as approved by the resident engineer prior to implementation. Cost incidental to "Precast Concrete Box Culverts."
3. Temporary concrete barriers shall be provided for Stage Construction. See Standard 704001. Pay item for Temporary Concrete Barriers is included in the Roadway Plans.
4. This box culvert has a fill height of less than 2.0 feet. The precast concrete box culvert shall conform to the requirements of AASHTO M-273.
5. Pay item for Steel Plate Beam Guardrail is included in the Roadway Plans. See Standard 630001.
6. Pay item for Sub Base Granular Material, Topsoil, and Seeding are included in the Roadway Plans.

INDEX OF SHEETS

- 1 General Plan
- 2 Construction Details and Bill of Materials
- 3 Box Culvert End Section Details
- 4 Temporary Concrete Barrier for Stage Construction
- 5 Boring Log 3
- 6 Boring Log 4

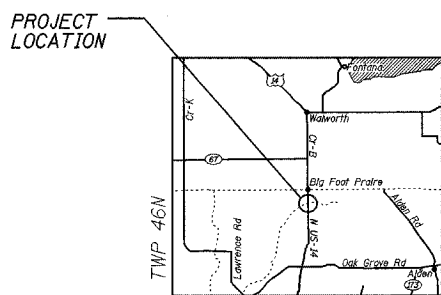
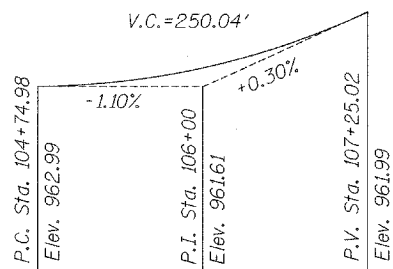
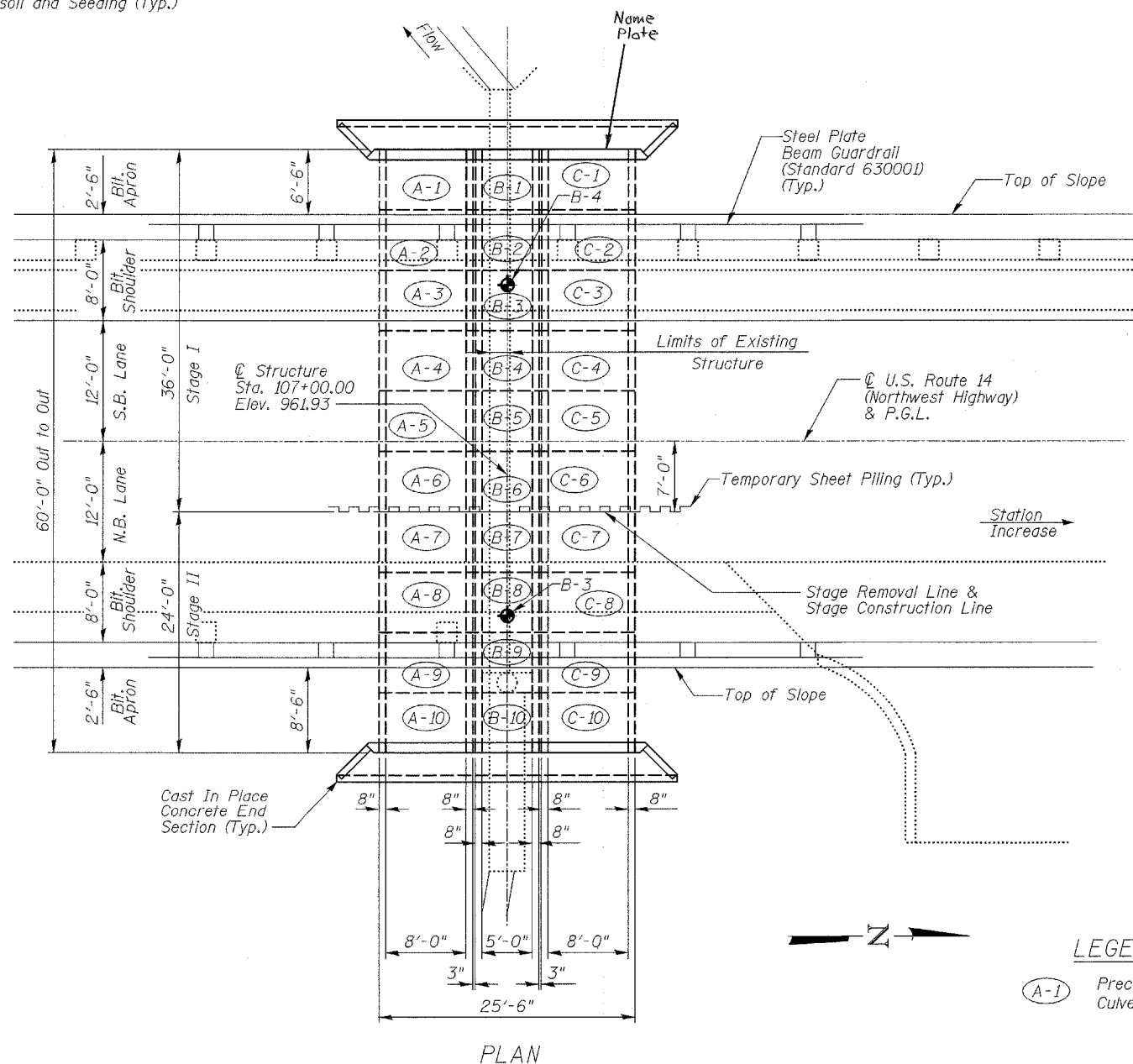
GENERAL PLAN
U.S. ROUTE 14
(NORTHWEST HIGHWAY)
OVER LAWRENCE CREEK
BYPASS TO LAWRENCE CREEK
FAP 066 SECTION 2(B&G)R
McHENRY COUNTY
STATION 107+00.00
STRUCTURE NO. 056-0075



WATERWAY INFORMATION

Drainage Area = 0.26 mi² Low Grade El. 961.92 @ Sta. 106+50

Flood	Freq. Yr.	C.F.S.	Opening Sq. Ft.		Nat. H.W.E.	Head - Ft.			Headwater El.
			Exist.	Prop.		Exist.	Prop.	Exist.	
Design	10	126	4 ft ²	60.89	956.59	3.27	0.00	959.86	956.40
Base	50	169	4 ft ²	90.47	957.57	3.55	0.10	961.12	957.67
Overtopping	100	224	4 ft ²	96.77	957.87	3.39	0.58	961.26	958.45
Max. Calc.	500	295	4 ft ²	117.98	958.88	2.53	1.23	961.41	960.11



DESIGNED	RFS	20
CHECKED	LLP	ENGINEER OF BRIDGE DESIGN
DRAWN	JPG	PASSED
CHECKED	RFS	ENGINEER OF BRIDGES AND STRUCTURES

LEGEND

(A-1) Precast Concrete Box Culvert Cell Number

STAGE CONSTRUCTION NOTES

Pre-Stage I Construction

1. Place temporary pavement on the east side of roadway outside the existing pavement.

Stage I Construction

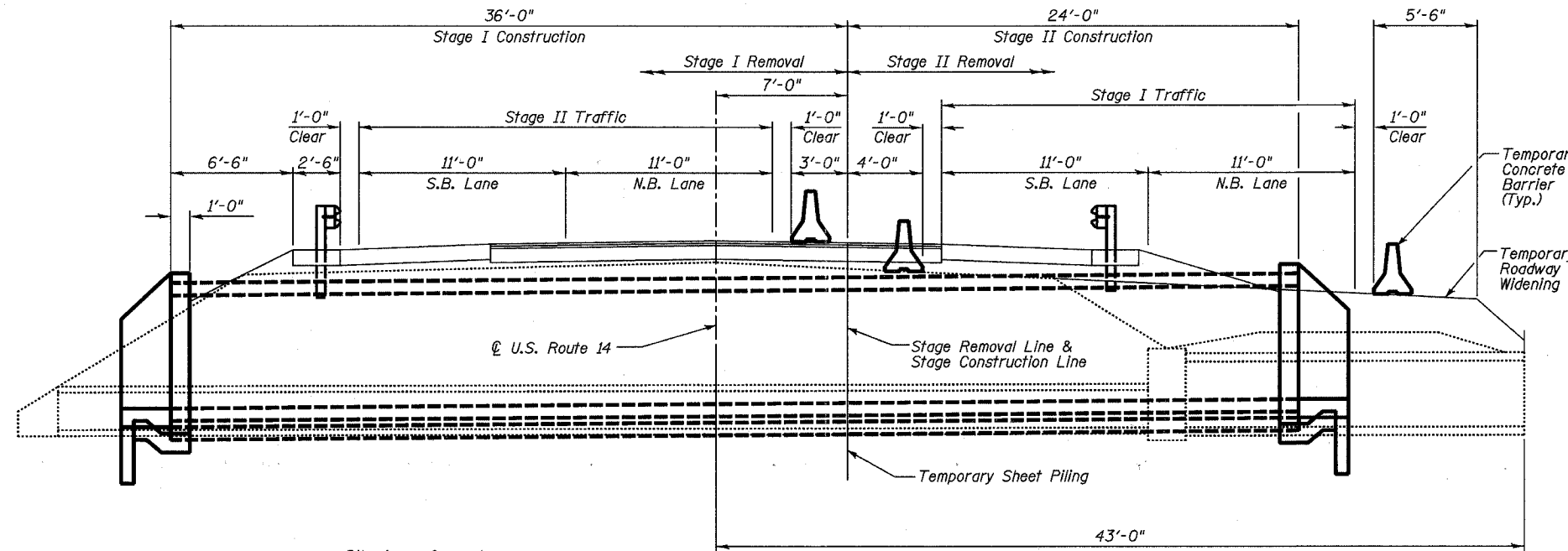
1. Establish Stage I Maintenance of Traffic.
2. Re-route traffic over temporary pavement.
3. Remove western portion of existing culvert.
4. Construct western portion of box culvert.

Stage II Construction

1. Establish Stage II Maintenance of Traffic.
2. Re-route traffic over Stage II Maintenance of Traffic limits.
3. Remove eastern portion of existing culvert and temporary pavement.
4. Construct eastern portion of box culvert.
5. Remove Stage II Maintenance of Traffic.

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

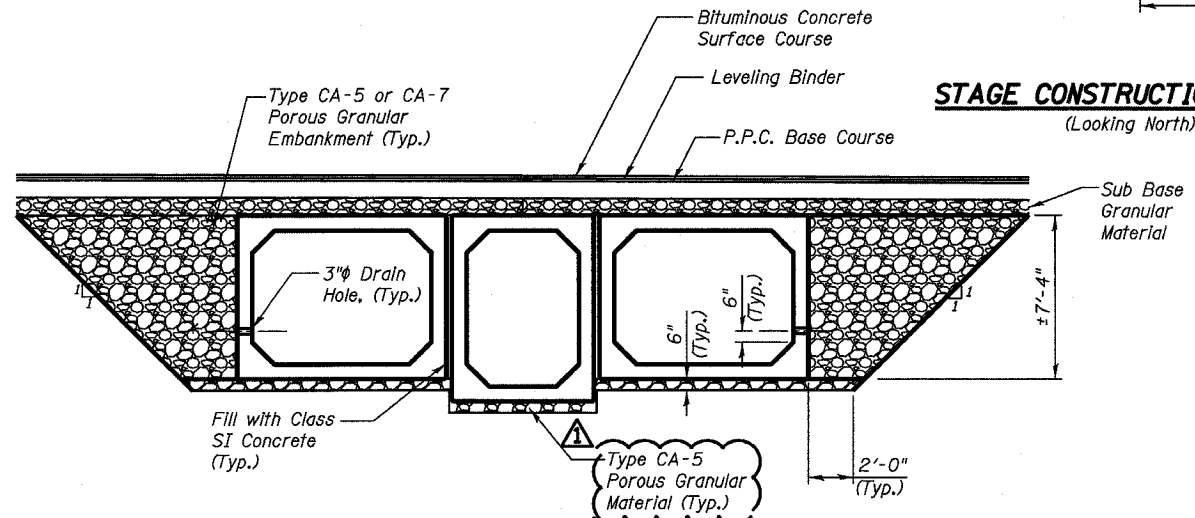
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F.A.P. 066	21K&G1R	McHENRY	66 42	6 SHEETS
FED. ROAD DIST. NO. 7	ILLINOIS	FED. AID PROJECT-		



TOTAL BILL OF MATERIAL

ITEM	UNIT	TOTAL
Removal & Disposal of Unsuitable Material	C.Y.	60
Channel Excavation	C.Y.	780
Porous Granular Embankment	C.Y.	215
Removal of Existing Structures, No. 2	Each	1
Pipe Culvert Removal	L.F.	31
Structure Excavation	C.Y.	20
Temporary Sheet Piling	S.F.	1,125
Name Plates	Each	1
Box Culvert End Sections	Each	2
Precast Concrete Box Culvert 5' x 7'	L.F.	60
Precast Concrete Box Culvert 8' x 6'	L.F.	120

STAGE CONSTRUCTION DETAILS



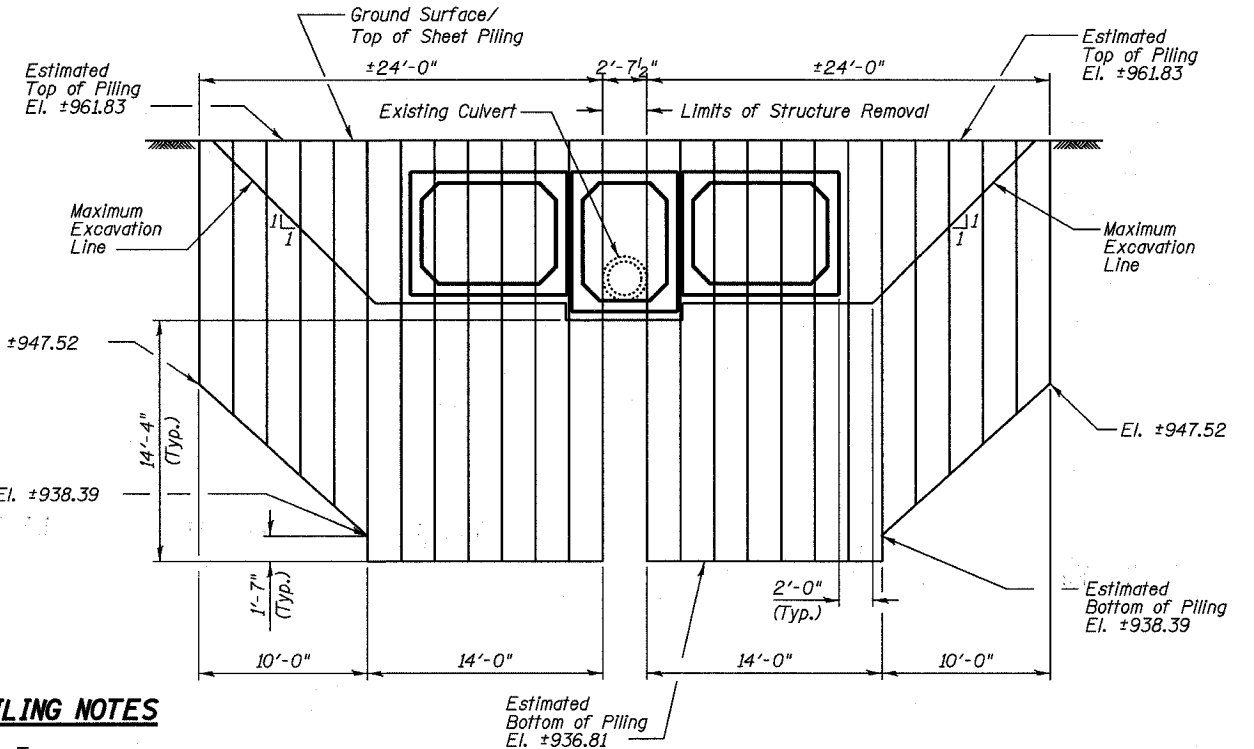
BACKFILL DETAILS

BACKFILL NOTES

1. Place type CA-5 porous granular material underneath the box culverts to the limits shown on the plans or as directed by the Engineer. Porous granular material shall be included in the cost for Precast Concrete Box Culverts. See Section 540 of the Standard Specifications.
2. Place type CA-5 or CA-7 porous granular embankment above the type CA-5 porous granular material to the bottom of the sub base granular material, as shown on the plans or as directed by the Engineer. To be paid for as Porous Granular Embankment.

NOTE:

Box culvert foundations bearing upon suitable natural soils shall be designed for a maximum net allowable soil bearing capacity of 2000 pounds per square foot.



TEMPORARY SHEET PILING NOTES

1. Minimum Section Modulus of the Temporary Sheet Piling shall be 19.5 in³/ft.
2. If the Contractor chooses to alter the temporary cantilevered sheet piling design requirements shown on the plans, a design submittal including plan details and calculations will be required for review and acceptance by the Engineer.
3. Hard driving may be encountered during the sheet piling installation. The Contractor shall provide the appropriate driving equipment for the soil conditions indicated on the boring logs.

TEMPORARY SHEET PILING DETAILS

**CONSTRUCTION DETAILS AND BILL OF MATERIALS
U.S. ROUTE 14
(NORTHWEST HIGHWAY)
OVER TRIBUTARY 'A'
TO LAWRENCE CREEK
FAP 066 SECTION 21K&G1R
McHENRY COUNTY
STATION 107+00.00
STRUCTURE NO. 056-0075**

DESIGNED	RFS
CHECKED	LLP
DRAWN	JPG
CHECKED	RFS
REVISED	3-31-05 KWN

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

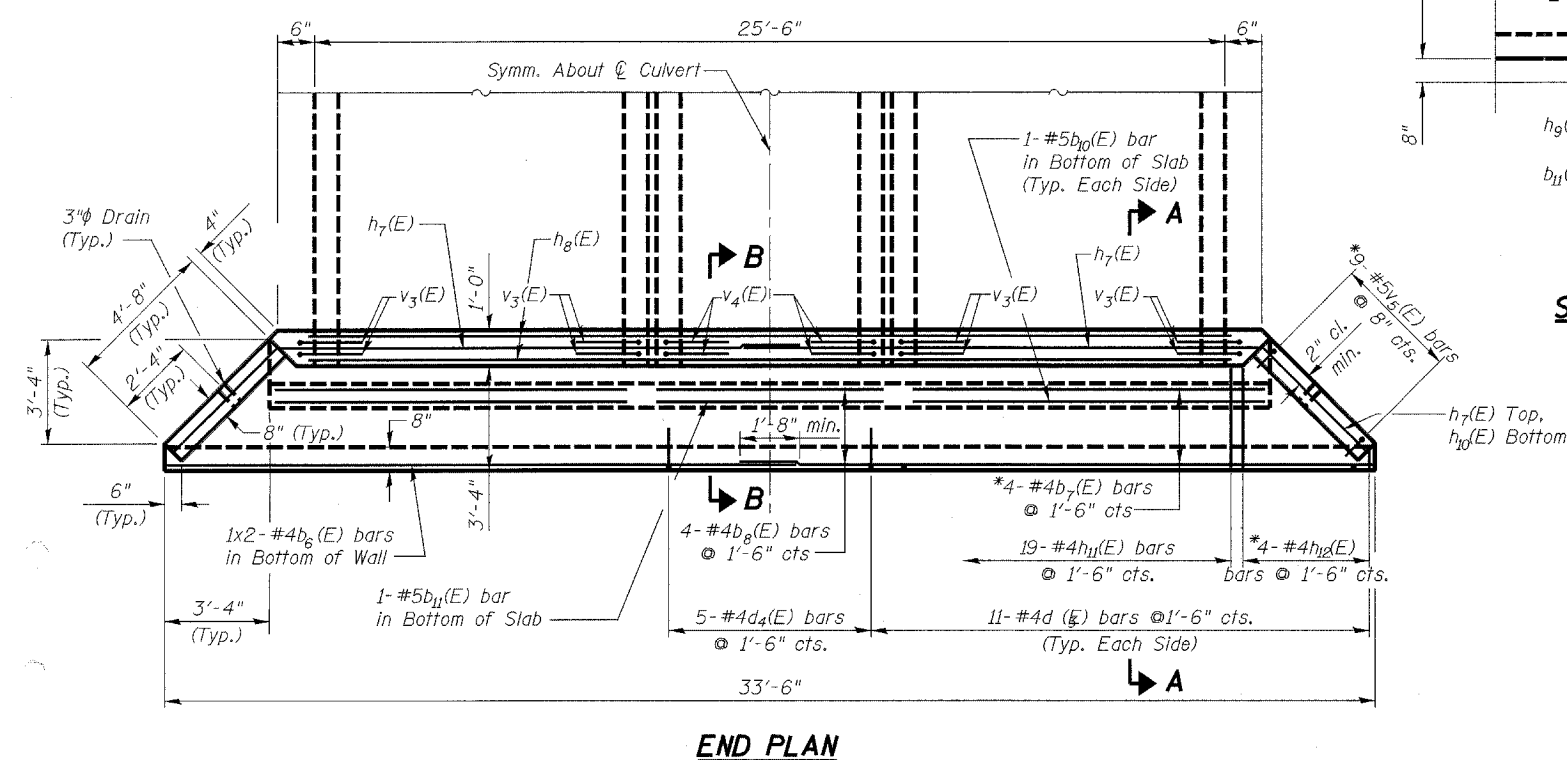
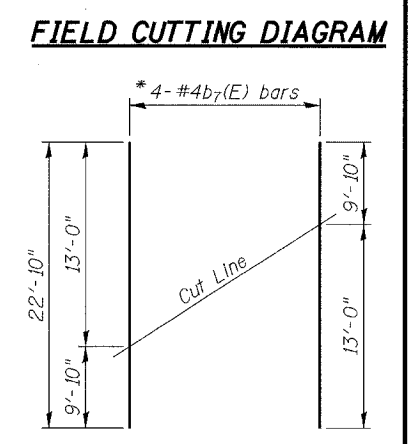
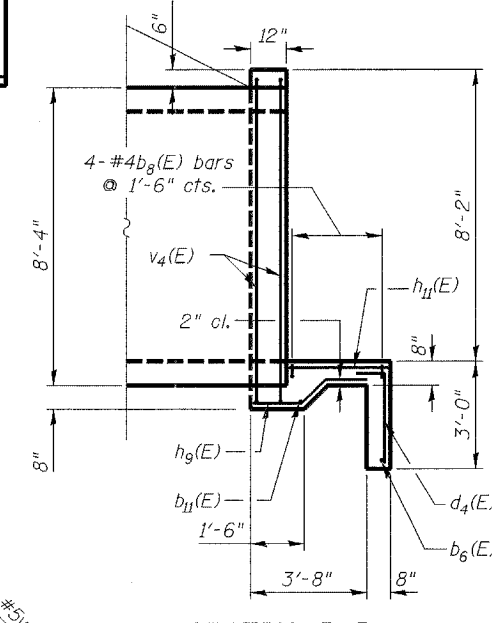
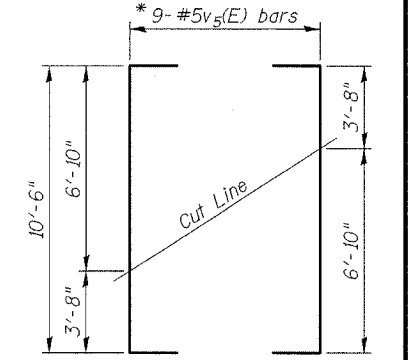
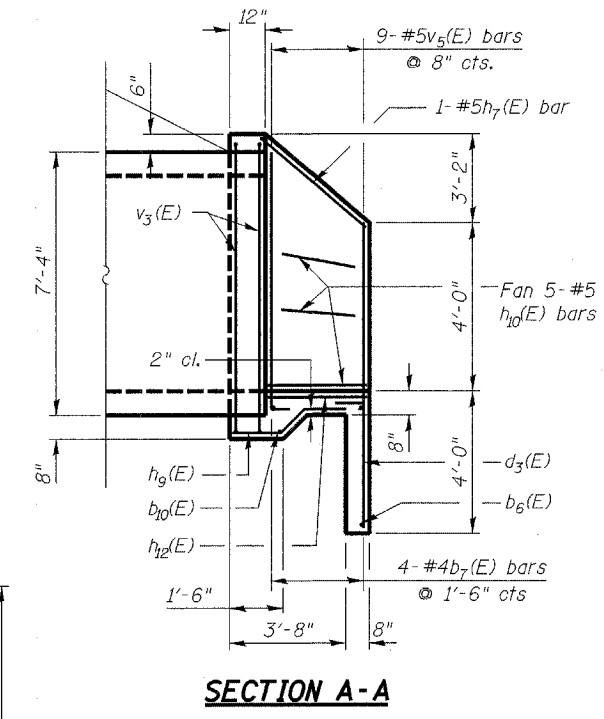
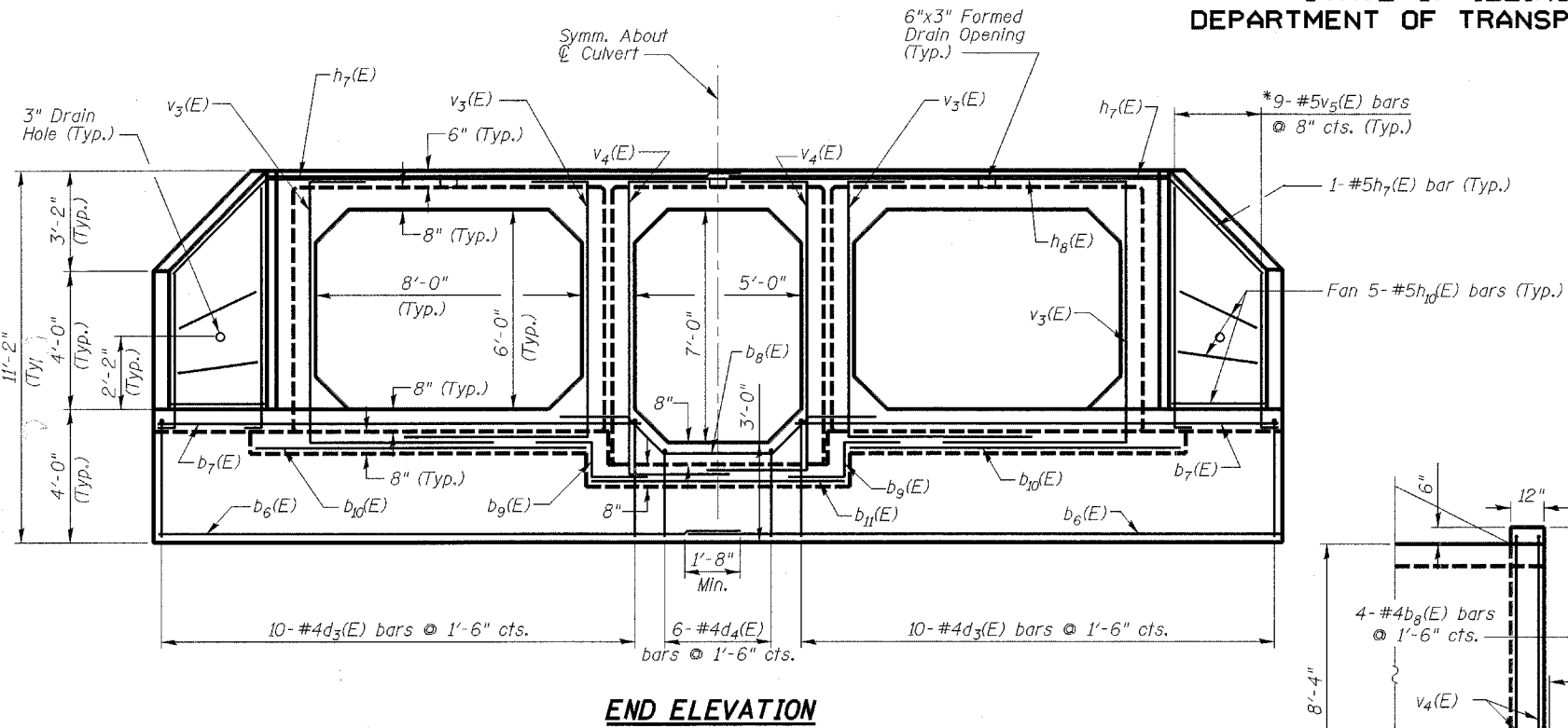
Rev. 4-14-05

3287-0056-0075.dgn

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

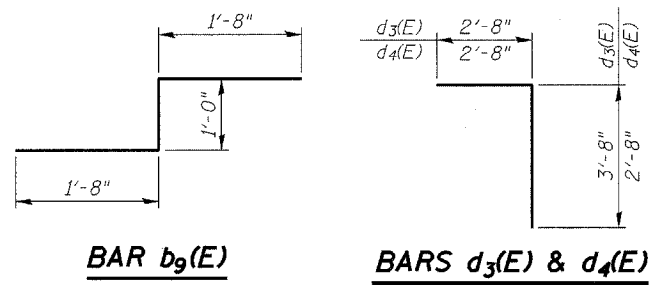
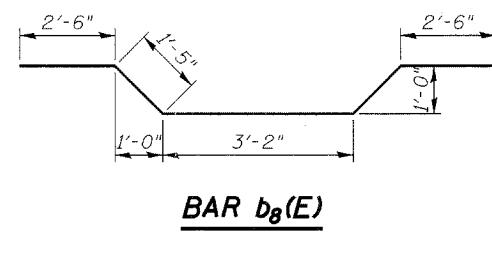
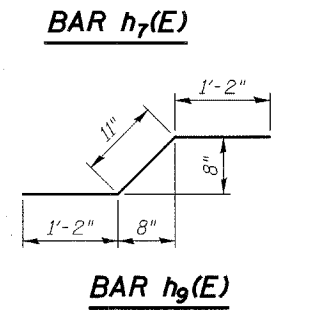
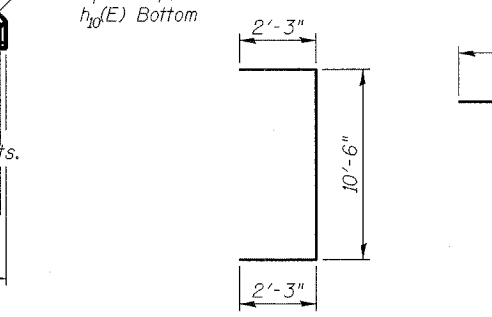
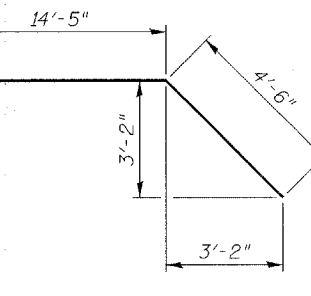
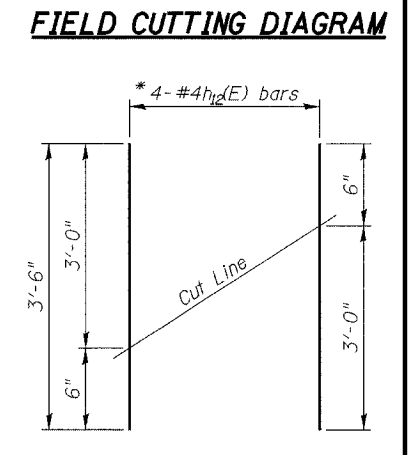
ROUTE NO.	SECTION	COUNTY	SHEETS	NO.	SHEET NO. 3
F.A.P. 066	2(B&G)R	McHENRY	66	43	6 SHEETS
FED. ROAD DIST. NO. 7					ILLINOIS FED. AID PROJECT

#62391



****BILL OF MATERIAL**

Bar	No.	Size	Length	Shape
d ₃ (E)	4	#4	17'-5"	
d ₄ (E)	8	#4	22'-10"	
b ₇ (E)	8	#4	11'-0"	
b ₈ (E)	4	#5	4'-4"	
b ₉ (E)	4	#5	9'-10"	
b ₁₀ (E)	4	#5	9'-10"	
b ₁₁ (E)	2	#5	6'-4"	
d ₃ (E)	44	#4	6'-4"	
d ₄ (E)	10	#4	5'-4"	
h ₇ (E)	4	#5	18'-11"	
h ₈ (E)	4	#5	25'-6"	
h ₉ (E)	38	#5	3'-3"	
h ₁₀ (E)	20	#5	4'-3"	
h ₁₁ (E)	38	#4	3'-0"	
h ₁₂ (E)	8	#4	3'-6"	
v ₃ (E)	16	#5	15'-9"	
v ₄ (E)	8	#5	15'-3"	
v ₅ (E)	18	#5	15'-0"	
Reinforcement Bars (Epoxy Coated)			Lbs.	1700
Concrete Structures			Cu. Yds.	40



** For Information Only. The items in this table are not paid for separately, but are include in the cost of "Box Culvert End Sections."

The above table includes quantities for two box culvert end sections.

Reinforcement bars designated (E) shall be epoxy coated.

* Order v₅(E), b₇(E), and h₁₂(E) bars full length. Cut to fit as shown and use remainder of bars in other side of apron.

DESIGNED	RFS	20
CHECKED	LLP	ENGINEER OF BRIDGE DESIGN
DRAWN	JPG	ENGINEER OF BRIDGES AND STRUCTURES
CHECKED	RFS	

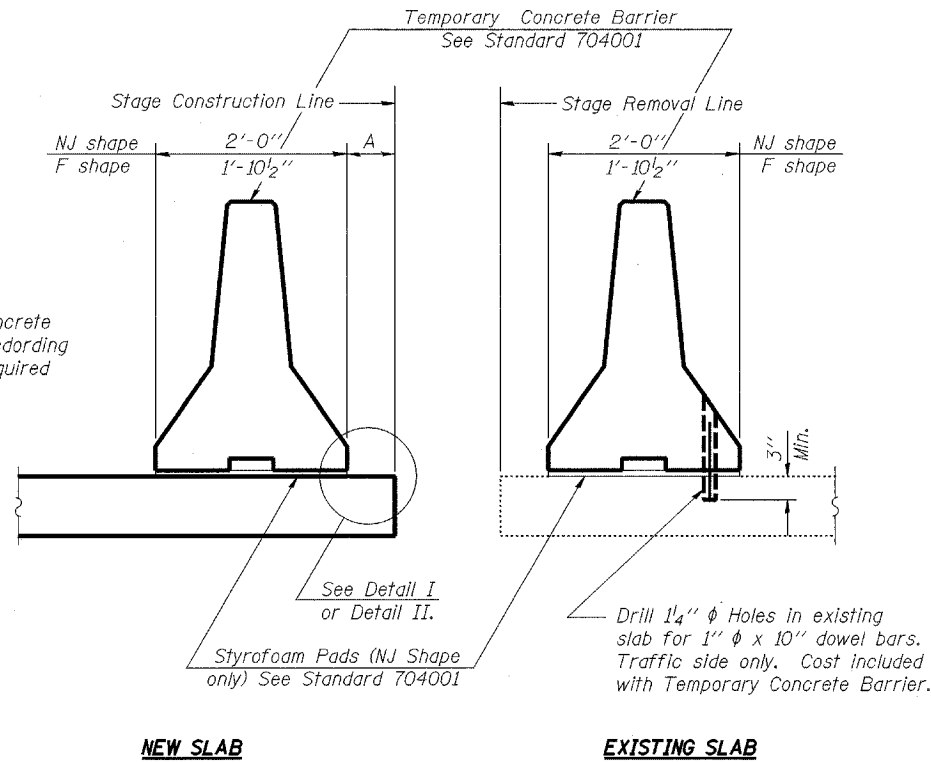
BOX CULVERT END SECTION DETAILS
U.S. ROUTE 14
(NORTHWEST HIGHWAY)
OVER TRIBUTARY 'A'
TO LAWRENCE CREEK
FAP 066 SECTION 2(B&G)R
McHENRY COUNTY
STATION 107+00.00
STRUCTURE NO. 056-0075

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
F.A.P. 066	2(B&G)R	McHENRY	66	44
FED. ROAD DIST. NO. 7	ILLINOIS	FED. AID PROJECT-		

SHEET NO. 4
6 SHEETS

#62391

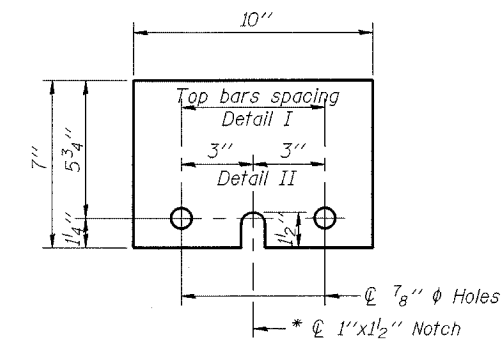
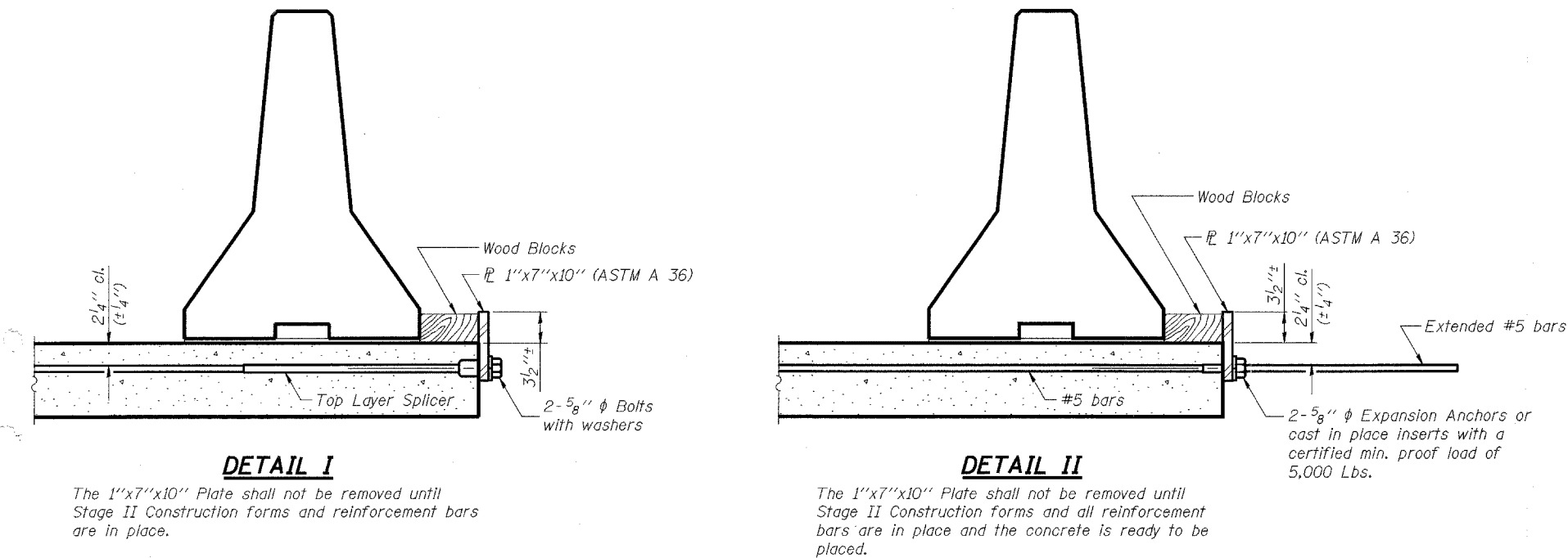


When "A" is 3'-6" or less, the temporary concrete barrier shall be Anchored to the new slab according to Detail I or Detail II. No anchorage is required when "A" is greater than 3'-6".

NOTES

- Detail I - With Bar Splicer or Couplers:
Connect one (1) 1"x7"x10" steel \bar{P} to the top layer of couplers with 2- $\frac{5}{8}$ " ϕ bolts screwed to coupler at approximate ϕ of each barrier panel.
- Detail II - With Extended Reinforcement Bars:
Connect one (1) 1"x7"x10" steel \bar{P} to the concrete slab with 2- $\frac{5}{8}$ " ϕ Expansion Anchors or cast in place inserts spaced between the top layer of reinforcement at approximate ϕ of each barrier panel.
- Cost of anchorage is included with Temporary Concrete Barrier.

SECTION THRU SLAB



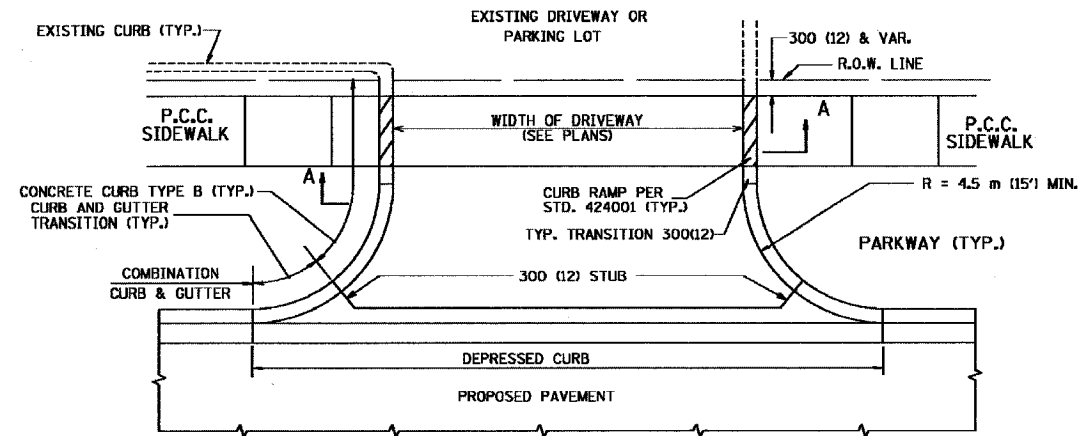
1"x7"x10"
* Required only with Detail II

DESIGNED	RFS	20
CHECKED	LLP	EXAMINED
DRAWN	JPG	PASSED
CHECKED	RFS	ENGINEER OF BRIDGES AND STRUCTURES

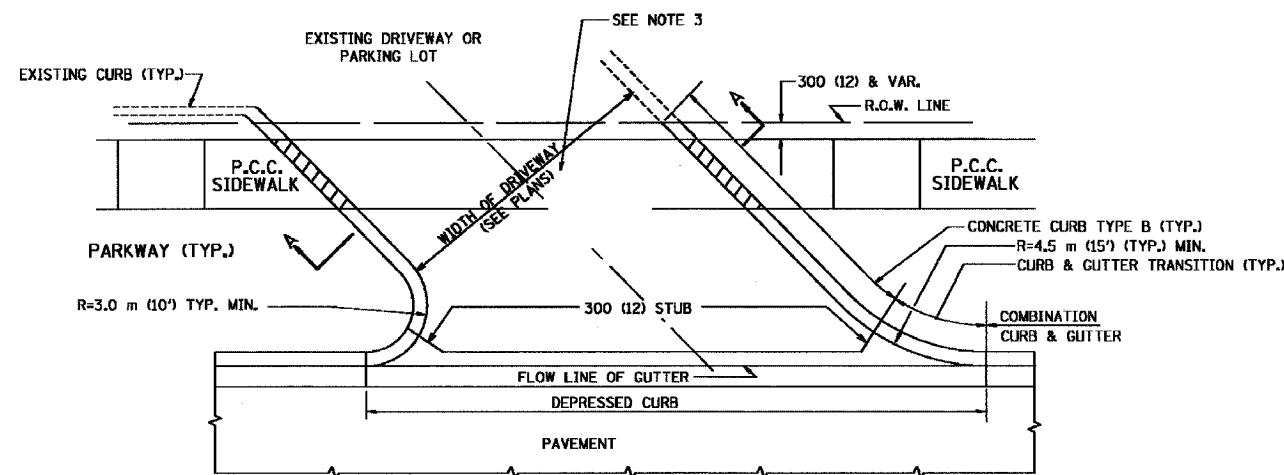
**TEMPORARY CONCRETE BARRIER
FOR STAGE CONSTRUCTION
U.S. ROUTE 14
(NORTHWEST HIGHWAY)
OVER TRIBUTARY 'A'
TO LAWRENCE CREEK
FAP 066 SECTION 2(B&G)R
McHENRY COUNTY
STATION 107+00.00
STRUCTURE NO. 056-0075**

P.A.P. NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
066	21 (B&G) R	MCHENRY	66	47
STA.	TO STA.			
P.O. ROAD DIST. NO. 1	ALIGNED	P.O. AND PROJECT		

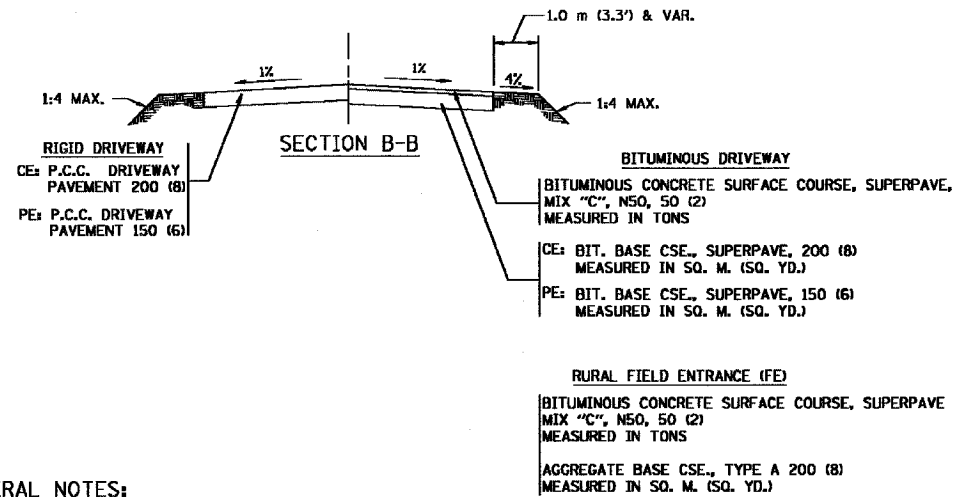
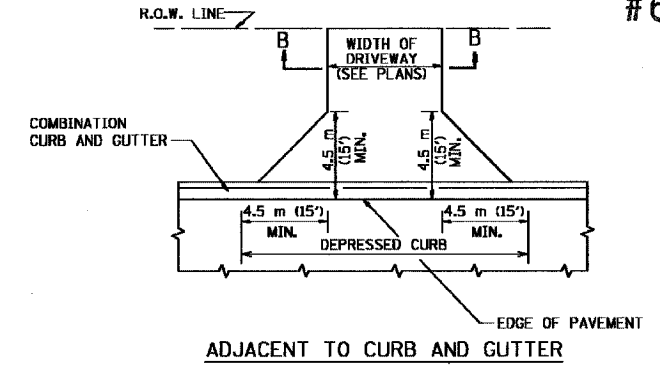
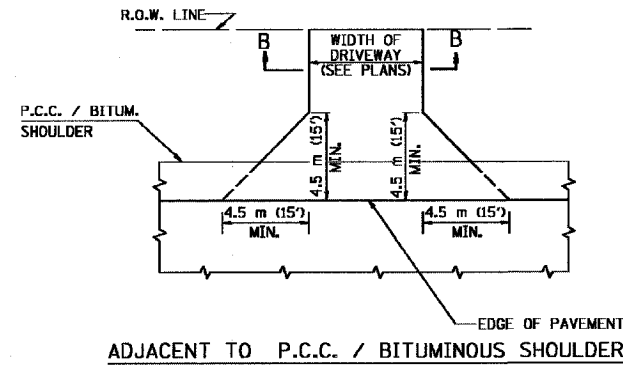
#62391



WITH CONCRETE CURB, TYPE B



WITH CONCRETE CURB, TYPE B



GENERAL NOTES:

DRIVEWAY SLOPES, LOCATIONS, & GEOMETRIC LAYOUT SHALL BE IN ACCORDANCE WITH THE LATEST EDITION OF THE "HANDBOOK FOR POLICY ON PERMITS FOR ACCESS DRIVEWAYS TO STATE HIGHWAYS". FOR FURTHER LAYOUT REQUIREMENTS, REFER TO ILLUSTRATIONS IN THE PERMIT HANDBOOK. DRIVEWAYS SHALL BE REPLACED IN KIND, UNLESS OTHERWISE NOTED ON THE PLANS.

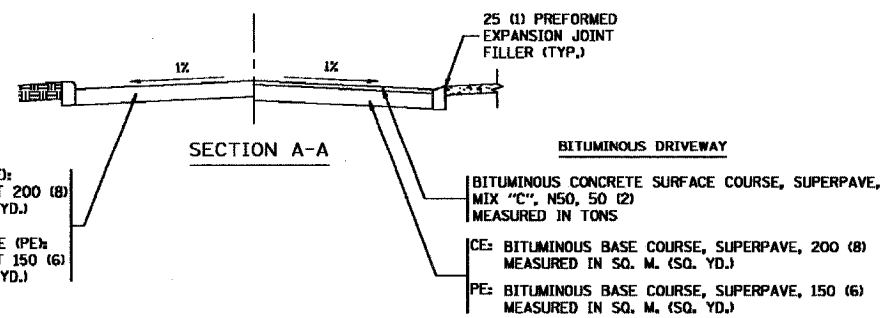
COMMERCIAL DRIVEWAYS SHALL BE CONSTRUCTED WITH CONCRETE CURB, TYPE B RETURNS EXCEPT WHEN THE SIDEWALK EDGE IS 1.2 METERS (4 FEET) OR LESS FROM THE BACK OF CURB, CONSTRUCT A FLARE DRIVEWAY WITHOUT CURB.

THE RESIDENT ENGINEER SHALL CONTACT THE TRAFFIC PERMIT OFFICE AT 847/ 705-4131 FOR ANY QUESTIONS ON DRIVEWAYS SHOWN IN THE PLANS; SPECIFICALLY IN REFERENCE TO ADDITIONAL AND/OR RELOCATION/REMOVAL OF A DRIVEWAY.

COMBINATION CONCRETE CURB & GUTTER SHALL BE MEASURED STRAIGHT ACROSS THE DRIVEWAY. NO ADDITIONAL COMPENSATION WILL BE ALLOWED FOR THE CURB & GUTTER TRANSITION.

25 (1) PREFORMED EXPANSION JOINT FILLER WILL NOT BE PAID SEPARATELY, BUT SHALL BE CONSIDERED INCLUDED IN THE COST OF THE P.C.C. DRIVEWAY PAVEMENT OR P.C.C. SIDEWALK.

WHEN THE P.C.C. SIDEWALK EXTENDS THROUGH THE DRIVEWAY, THE THICKNESS OF THE SIDEWALK IN THE DRIVEWAY AREA SHALL BE THE SAME AS THE DRIVEWAY THICKNESS. SIDEWALK WILL BE PAID FOR AS P.C.C. SIDEWALK OF THE THICKNESS SPECIFIED. SIDEWALK CROSS SLOPE THRU DRIVEWAY AREA TO BE A MAXIMUM OF 1:50.



ALL DIMENSIONS ARE IN MILLIMETERS (INCHES) UNLESS OTHERWISE NOTED

ILLINOIS DEPARTMENT OF TRANSPORTATION

DRIVEWAY DETAILS
DISTANCE BETWEEN R.O.W. AND FACE OF CURB / EDGE OF SHOULDER >= 4.5 m (15')

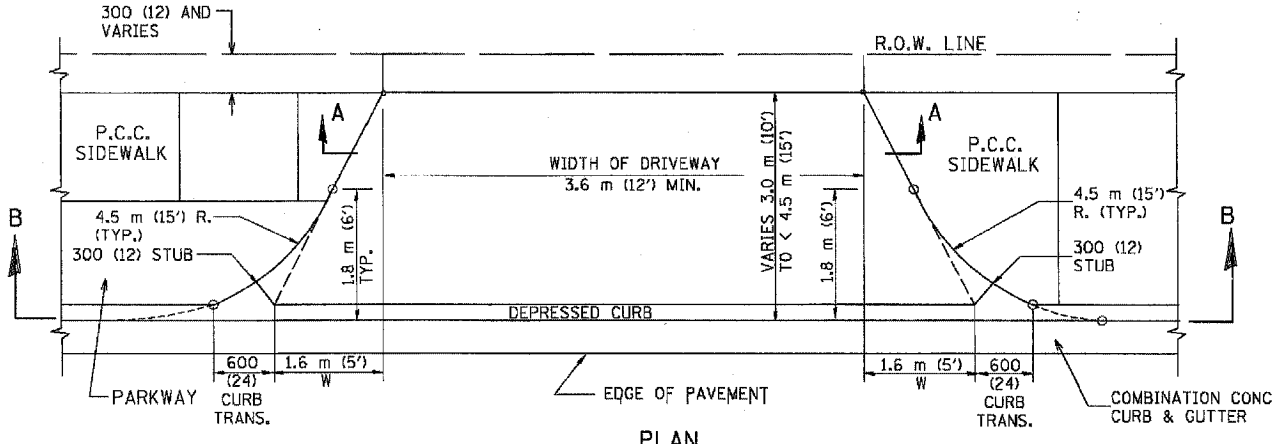
REVISIONS	
NAME	DATE
P. LOFLEUR	04-15-03
R. SHAH	11-04-95
J. POLLASTRINI	08-12-96
J. POLLASTRINI	12-14-96
A. ABBAS	03-21-97
T. HOLTZ	04-08-97
M. GOMEZ	04-06-01

SCALE: NONE
DATE PLOTTED: 04/17/2003
DRAWN BY: SG
CHECKED BY: JFP

BD400-01 (BD-01)
REVISION DATE: 04/15/03

F.A.P. NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
066	21 (B46)R	McHENRY	66	48
STA.	TO STA.			
FED. ROAD DIST. NO. 7	S.L. NO. 8	FED. AID PROJECT		

#62391

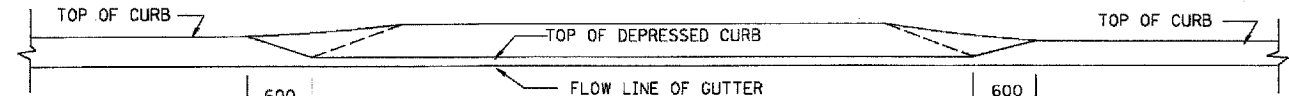


PLAN
3.0 m (10') TO < 4.5 m (15')

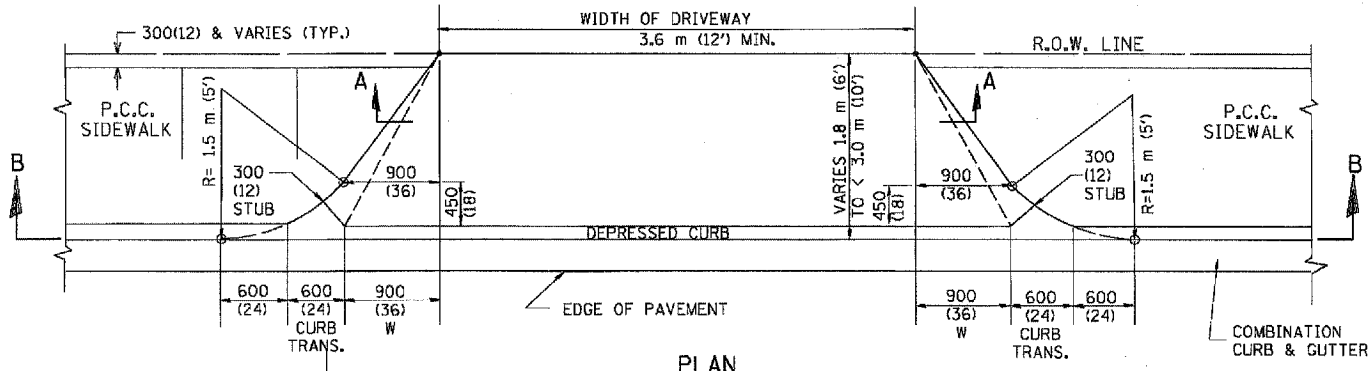
BITUMINOUS DRIVEWAY
BITUMINOUS CONCRETE SURFACE COURSE, SUPERPAVE, MIX "C", NSO, 50 (2) MEASURED IN TONS
BIT. BASE CSE., SUPERPAVE, 200 (8) CE; MEASURED IN SQ. M. (SQ. YD.)
BIT. BASE CSE., SUPERPAVE, 150 (6) PE; MEASURED IN SQ. M. (SQ. YD.)

SECTION A-A

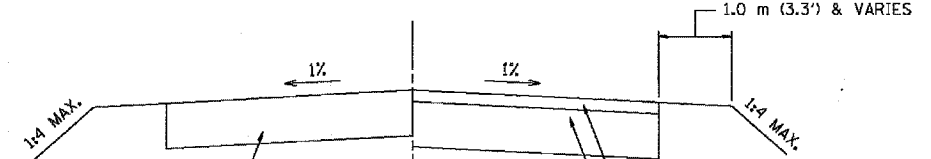
RIGID DRIVEWAY
P.C.C. DRIVEWAY PAVEMENT 200 (8)
RIGID DRIVEWAY
CE: P.C.C. DRIVEWAY PAVEMENT 200 (8)
PE: P.C.C. DRIVEWAY PAVEMENT 150 (6)



SECTION B-B



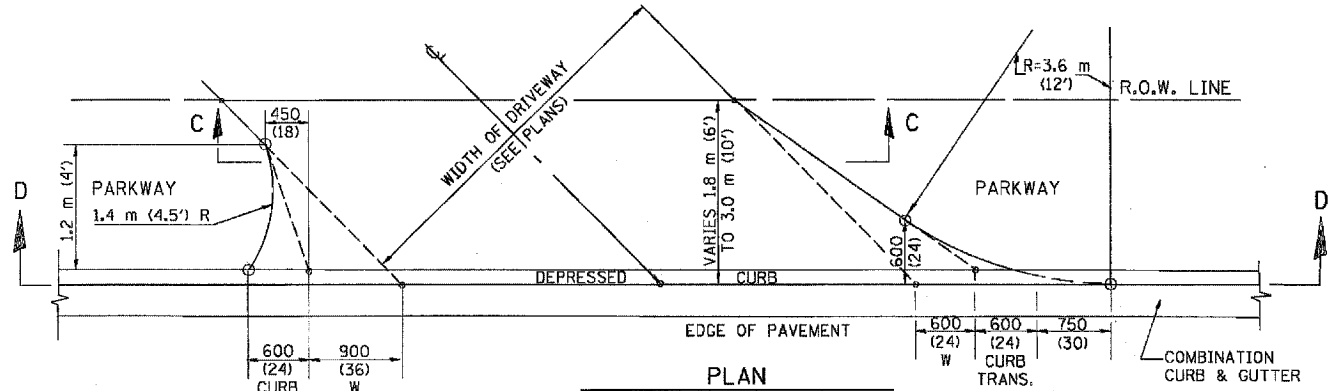
PLAN
1.8 m (6') < 3.0 m (10')



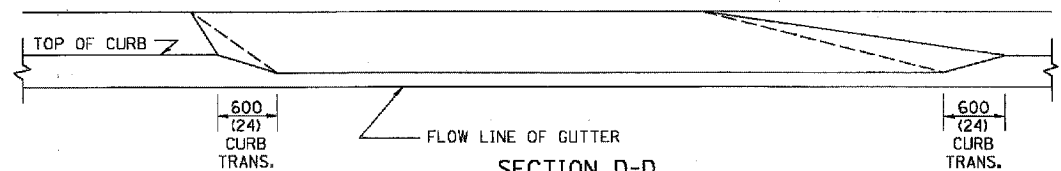
SECTION C-C

RIGID DRIVEWAY
CE: P.C.C. DRIVEWAY PAVEMENT 200 (8)
PE: P.C.C. DRIVEWAY PAVEMENT 150 (6)

BITUMINOUS DRIVEWAY
BITUMINOUS CONCRETE SURFACE COURSE, SUPERPAVE, MIX "C", NSO, 50 (2) MEASURED IN TONS
CE: BIT. BASE CSE., SUPERPAVE, 200 (8) MEASURED IN SQ. M. (SQ. YD.)
PE: BIT. BASE CSE., SUPERPAVE, 150 (6) MEASURED IN SQ. M. (SQ. YD.)



PLAN
1.8 m (6') TO 3.0 m (10')



SECTION D-D

GENERAL NOTES

DRIVEWAY SLOPES, LOCATIONS, & GEOMETRIC LAYOUT SHALL BE IN ACCORDANCE WITH THE LATEST EDITION OF THE "HANDBOOK FOR POLICY ON PERMITS FOR ACCESS DRIVEWAYS TO STATE HIGHWAYS". FOR FURTHER LAYOUT REQUIREMENTS, REFER TO ILLUSTRATIONS 10 IN THE PERMIT HANDBOOK. WHERE SIDEWALKS EXIST, DRIVEWAYS SHALL BE REPLACED WITH RIGID PAVEMENT. WHERE NO SIDEWALKS EXIST, DRIVEWAYS SHALL BE REPLACED IN KIND. SIDEWALK CROSS SLOPE THRU DRIVEWAY AREA TO BE A MAXIMUM OF 1:50.

WHEN THE DISTANCE BETWEEN R.O.W. AND THE BACK OF CURB IS EQUAL TO OR LESS THAN 2.4 M (8'), THE P.C.C. SIDEWALK SHALL EXTEND TO THE BACK OF CURB.

THE RESIDENT ENGINEER SHALL CONTACT THE TRAFFIC PERMIT OFFICE AT 847/ 705-4131 FOR ANY QUESTIONS ON DRIVEWAYS SHOWN IN THE PLANS; SPECIFICALLY IN REFERENCE TO ADDITIONAL AND/OR RELOCATION/REMOVAL OF A DRIVEWAY.

COMBINATION CONCRETE CURB & GUTTER SHALL BE MEASURED STRAIGHT ACROSS THE DRIVEWAY. NO ADDITIONAL COMPENSATION WILL BE ALLOWED FOR THE CURB & GUTTER TRANSITION.

25 (1) PREFORMED EXPANSION JOINT FILLER WILL NOT BE PAID SEPARATELY, BUT SHALL BE CONSIDERED INCLUDED IN THE COST OF THE P.C.C. DRIVEWAY PAVEMENT OR P.C.C. SIDEWALK.

"W" VARIES FROM 900 (36) TO 1.5 m (5 FT.) PROPORTIONAL TO THE LENGTH (L), FROM 1.8 m (6 FT.) TO 3 m (10 FT.).

ALL DIMENSIONS ARE IN MILLIMETERS (INCHES) UNLESS OTHERWISE NOTED.

ILLINOIS DEPARTMENT OF TRANSPORTATION
DRIVEWAY DETAILS

DISTANCE BETWEEN ROW AND FACE OF CURB < 4.5 m (15')

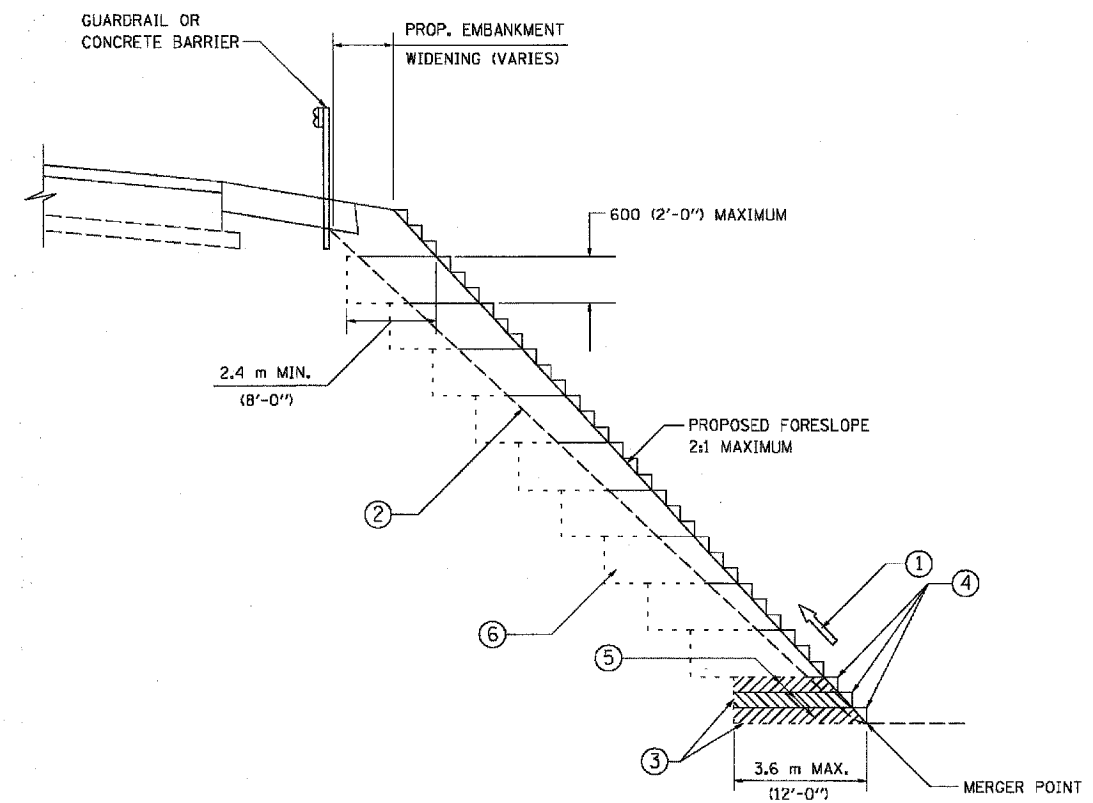
REVISIONS	
NAME	DATE
P. LOFLEUR	04/15/03
M. GOMEZ	04/06/01
R. SHAH	11/06/95
J. POLLASTRINI	08/12/96
J. POLLASTRINI	12/14/98
A. ABBAS	03/21/97
T. HOLTZ	04/08/97

SCALE: NONE
DATE PLOTTED: 04/17/2003
DRAWN BY: SG
CHECKED BY: JFP
BD400-02 (BD-02)

REVISION DATE: 04/15/03

P. A. P. NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
066	21 (B46)R	MCHEMRY	66	49
STA.	TO STA.			
FED. ROAD DIST. NO. 1	ILLINOIS	FED. AID PROJECT		

#62391



TYPICAL BENCHING DETAIL
FOR EMBANKMENT

NOTES:

- ① CONSTRUCT SUCCEEDING BENCH CUTS AND EMBANKMENT PLACEMENT AND COMRACTION FROM BOTTOM TO TOP IN STAIRSTEP FASHION.
- ② EXISTING FORESLOPE PREPARED IN ACCORDANCE WITH ARTICLE 205.04 OF THE STANDARD SPECIFICATIONS.
- ③ BENCH CUT EXISTING SLOPE TYPICAL FOR EACH STEP.
- ④ TRIM TO FINAL SLOPE.
- ⑤ EQUAL 200 (8-INCH) LIFTS OF EMBANKMENT COMPACTED IN ACCORDANCE WITH ARTICLE 205.06 OF THE STANDARD SPECIFICATIONS.
- ⑥ EXCAVATION OF BENCH CUTS WITHIN EXISTING EMBANKMENT WILL BE PAID FOR AT THE CONTRACT UNIT PRICE PER CUBIC METER OR CUBIC YARD FOR "EARTH EXCAVATION (SPECIAL)". THIS PRICE WILL INCLUDE ALL LABOR AND MATERIAL NO ADDITIONAL COMPENSATION WILL BE ALLOWED.

ALL DIMENSIONS ARE IN MILLIMETERS (INCHES) UNLESS OTHERWISE SHOWN.

ILLINOIS DEPARTMENT OF TRANSPORTATION

BENCHING DETAIL
FOR EMBANKMENT
WIDENING

REVISIONS	
NAME	DATE

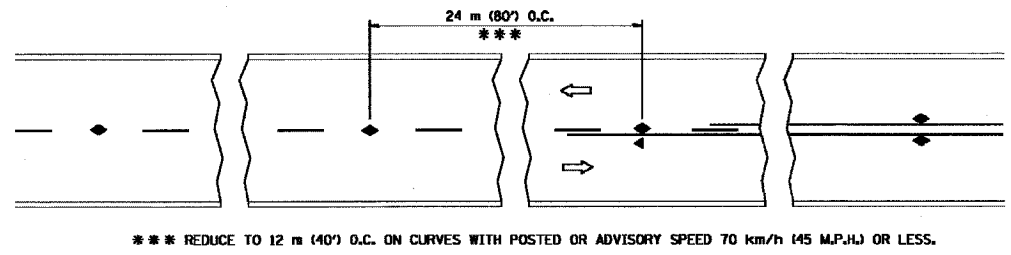
SCALE: NONE
DATE 10/18/2002

DRAWN BY: CADD
CHECKED BY: S.E.B.
BD-51

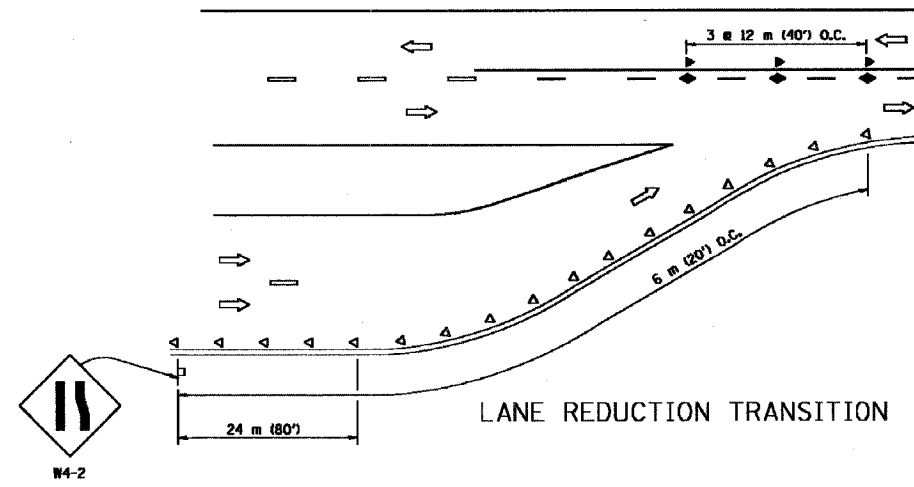
REVISION DATE:

F.A.P. NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
066	21 (B&G) R	MCHENRY	66	51
STA.	TO STA.			
FILE NO. OR PROJ. NO.	DATE	FILE AND PROJECT		

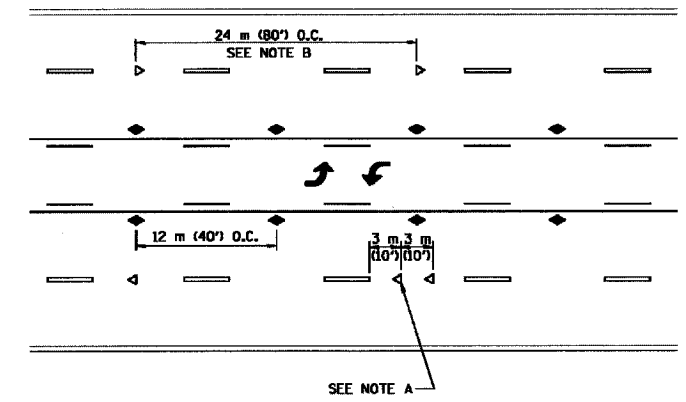
#62391



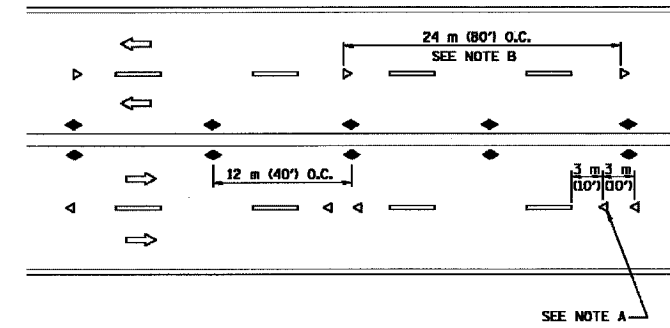
TWO-LANE/TWO-WAY



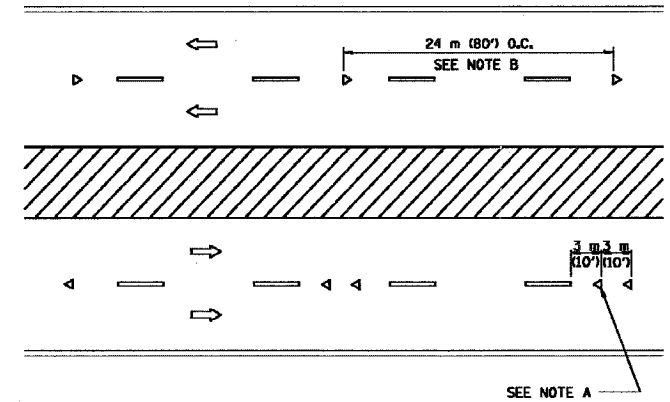
LANE REDUCTION TRANSITION



TWO-WAY LEFT TURN



MULTI-LANE/UNDIVIDED



MULTI-LANE/DIVIDED

GENERAL NOTES

1. MARKERS USED WITH DASHED LINES SHALL BE CENTERED IN THE GAP BETWEEN SEGMENTS.
2. MARKERS USED ADJACENT TO SOLID LINES SHALL BE OFFSET 50 TO 75 (2 TO 3') TOWARD TRAFFIC AS SHOWN.
3. MARKERS THROUGH TANGENTS LESS THAN 150 m (500') IN LENGTH BETWEEN CURVES SHALL BE INSTALLED AT THE LESSER OF THE TWO CURVE SPACINGS.

SYMBOLS

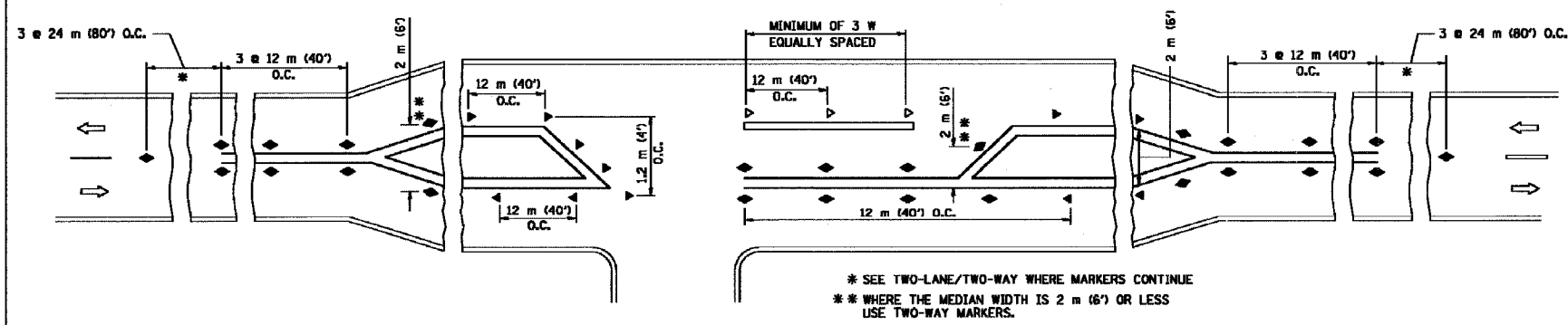
- YELLOW STRIPE
- WHITE STRIPE
- ◀ ONE-WAY AMBER MARKER
- ◀ ONE-WAY CRYSTAL MARKER (W/O)
- ◆ TWO-WAY AMBER MARKER

LANE MARKER NOTES

- B. REDUCE TO 12 m (40') O.C. ON CURVES WHERE ADVISORY SPEEDS ARE 20 km/h (10 M.P.H.) LOWER THAN POSTED SPEEDS.
- A. USE DOUBLE LANE LINE MARKERS SPACED AS SHOWN.

DESIGN NOTES

1. DOUBLE LANE LINE MARKERS SHALL BE USED UNLESS SPECIFIED OTHERWISE.
2. EXCEPT AS SHOWN ON THE LANE REDUCTION TRANSITION AND FREEWAY EXIT RAMP DETAIL, MARKERS ARE NOT TO BE SPECIFIED ON RIGHT EDGE LINES.
3. THE EXACT MARKER LIMITS, SPACING, AND COLOR SHOULD BE INCLUDED IN THE PLANS.
4. MARKERS SHOULD NOT BE USED ALONGSIDE CURBS EXCEPT FOR EXTREMELY SHORT SECTIONS OF CURBS WHERE NOT MORE THAN TWO MARKERS WOULD BE INVOLVED.



LEFT TURN

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

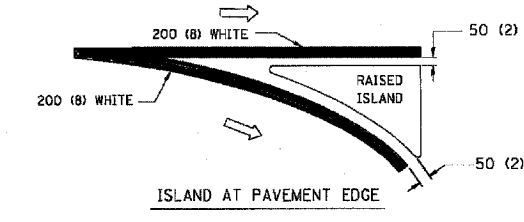
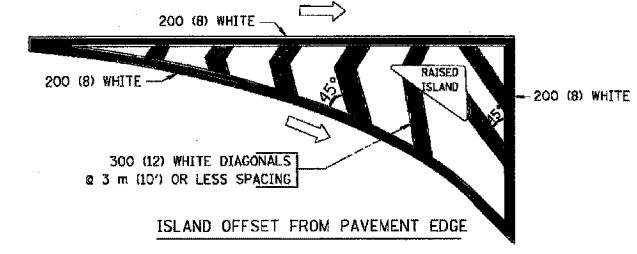
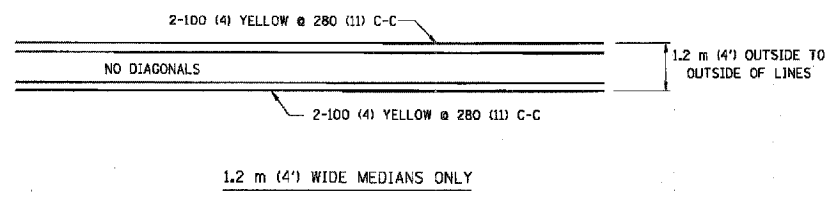
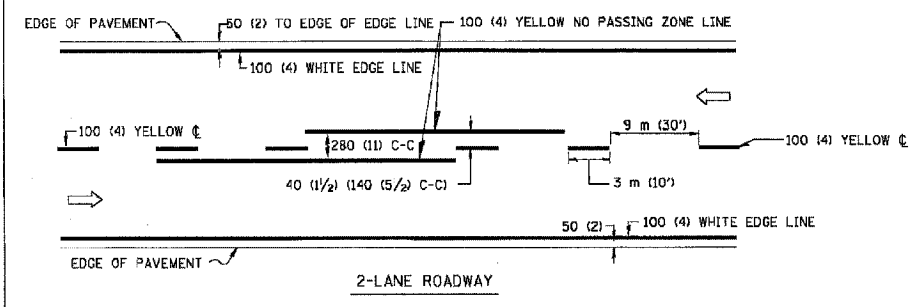
ILLINOIS DEPARTMENT OF TRANSPORTATION
TYPICAL APPLICATIONS
RAISED REFLECTIVE PAVEMENT MARKERS
(SNOW-PLOW RESISTANT)

REVISIONS	
NAME	DATE
T. RAMMACHER	09-19-94
T. RAMMACHER	03-12-99
T. RAMMACHER	01-06-00

SCALE: NONE
DATE: 10/18/2002
DRAWN BY: CADD
CHECKED BY: TC-11

REVISION DATE: 01/06/00

#62391



TYPICAL ISLAND MARKING

TYPE OF MARKING	WIDTH OF LINE	PATTERN	COLOR	SPACING / REMARKS
CENTERLINE ON 2 LANE PAVEMENT	100 (4)	SKIP-DASH	YELLOW	3 m (10') LINE WITH 9 m (30') SPACE
CENTERLINE ON MULTI-LANE UNDIVIDED PAVEMENT	2 @ 100 (4)	SOLID	YELLOW	280 (11) C-C
NO PASSING ZONE LINES: FOR ONE DIRECTION	100 (4)	SOLID	YELLOW	140 (5 1/2) C-C FROM SKIP-DASH CENTERLINE
FOR BOTH DIRECTIONS	2 @ 100 (4)	SOLID	YELLOW	280 (11) C-C OMIT SKIP-DASH CENTERLINE BETWEEN
LANE LINES	100 (4) 125 (5) ON FREEWAYS	SKIP-DASH SKIP-DASH	WHITE WHITE	3 m (10') LINE WITH 9 m (30') SPACE
DOTTED LINES (EXTENSIONS OF CENTER, LANE OR TURN LANE MARKINGS)	SAME AS LINE BEING EXTENDED	SKIP-DASH	SAME AS LINE BEING EXTENDED	600 (2') LINE WITH 1.8 m (6') SPACE
EDGE LINES	100 (4)	SOLID	YELLOW-LEFT WHITE-RIGHT	OUTLINE MOUNTABLE MEDIANS IN YELLOW; EDGE LINES ARE NOT USED NEXT TO BARRIER CURB
TURN LANE MARKINGS	150 (6) LINE; FULL SIZE LETTERS & SYMBOLS (2.4 m (8'))	SOLID	WHITE	SEE TYPICAL TURN LANE MARKING DETAIL
TWO WAY LEFT TURN MARKING	2 @ 100 (4) EACH DIRECTION	SKIP-DASH AND SOLID	YELLOW	3 m (10') LINE WITH 9 m (30') SPACE FOR SKIP-DASH; 140 (5 1/2) C-C BETWEEN SOLID LINE AND SKIP-DASH LINE
	2.4 m (8') LEFT ARROW	IN PAIRS	WHITE	SEE TYPICAL TWO-WAY LEFT TURN MARKING DETAIL
CROSSWALK LINES (PEDESTRIAN)	2 @ 150 (6)	SOLID	WHITE	NOT LESS THAN 1.8 m (6') APART
A. DIAGONALS (BIKE & EQUESTRIAN)	300 (12) @ 45°	SOLID	WHITE	600 (2') APART
B. LONGITUDINAL BARS (SCHOOL)	300 (12) @ 90°	SOLID	WHITE	SEE TYPICAL CROSSWALK MARKING DETAILS.
STOP LINES	600 (24)	SOLID	WHITE	PLACE 1.2 m (4') IN ADVANCE OF AND PARALLEL TO CROSSWALK, IF PRESENT. OTHERWISE, PLACE AT DESIRED STOPPING POINT. PARALLEL TO CROSSROAD CENTERLINE, WHERE POSSIBLE
PAINTED MEDIANS	2 @ 100 (4) WITH 300 (12) DIAGONALS @ 45°	SOLID	YELLOW; TWO WAY TRAFFIC WHITE; ONE WAY TRAFFIC	280 (11) C-C FOR THE DOUBLE LINE SEE TYPICAL PAINTED MEDIAN MARKING.
	NO DIAGONALS USED FOR 1.2 m (4') WIDE MEDIANS			
GORE MARKING AND CHANNELIZING LINES	200 (8) WITH 300 (12) DIAGONALS @ 45°	SOLID	WHITE	DIAGONALS: 4.5 m (15') C-C (LESS THAN 50 km/h (30 MPH)) 6 m (20') C-C (50 km/h (30 MPH) TO 70 km/h (45 MPH)) 9 m (30') C-C (OVER 70 km/h (45 MPH))
RAILROAD CROSSING	600 (24) TRANSVERSE LINES; "RR" IS 1.8 m (6') LETTERS; 400 (16) LINE FOR "X"	SOLID	WHITE	SEE STATE STANDARD 78000! AREA OF: "R"=0.33m ² (3.6 SQ. FT.) EACH "X"=5.0 m ² (54.0 SQ. FT.)
SHOULDER DIAGONALS	300 (12) @ 45°	SOLID	WHITE - RIGHT YELLOW - LEFT	15 m (50') C-C (LESS THAN 50 km/h (30 MPH)) 25 m (75') C-C (50 km/h (30 MPH) TO 70 km/h (45 MPH)) 45 m (150') C-C (OVER 70 km/h (45 MPH))

FOR FURTHER DETAILS ON PAVEMENT MARKING REFER TO STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION AND STATE STANDARD 780001.

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

ILLINOIS DEPARTMENT OF TRANSPORTATION

DISTRICT ONE

TYPICAL PAVEMENT MARKINGS

REVISIONS	
NAME	DATE
EVERS	03-19-90
T. RAMMACHER	10-27-94
ALEX HOUSEH	10-09-96
ALEX HOUSEH	10-17-96
T. RAMMACHER	01-06-00

SCALE: NONE

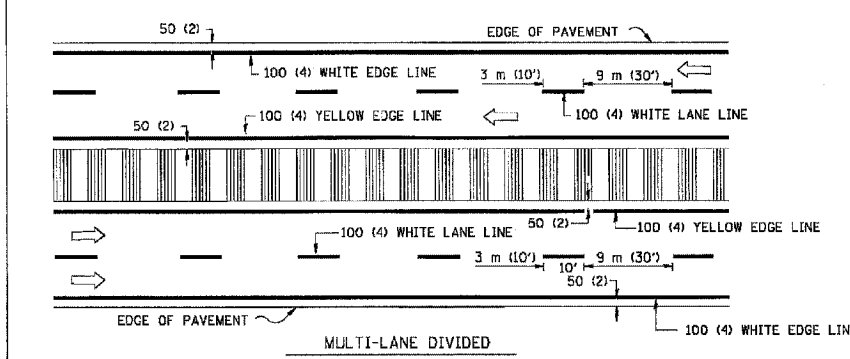
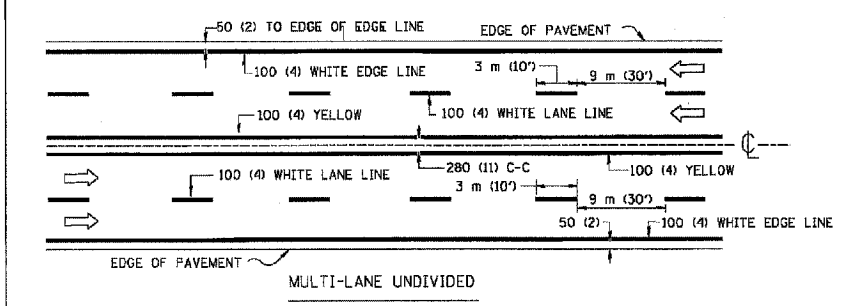
DATE 10/18/2002

DRAWN BY CADD

CHECKED BY

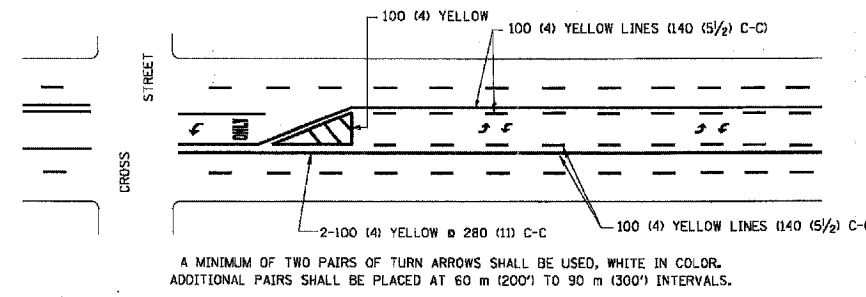
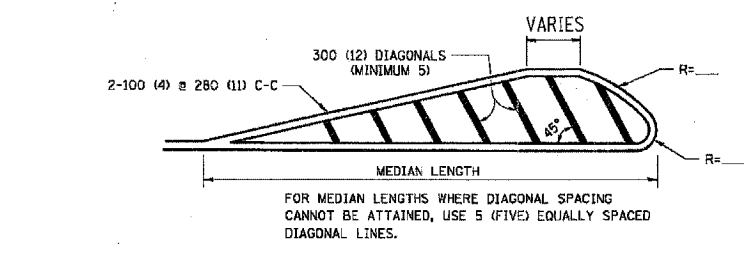
TC-13

REVISION DATE: 01/06/00

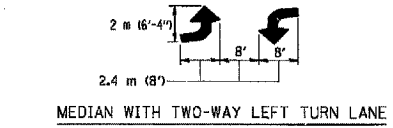


NOTE: MEDIANS WITH BARRIER CURB DO NOT REQUIRE AN EDGE LINE

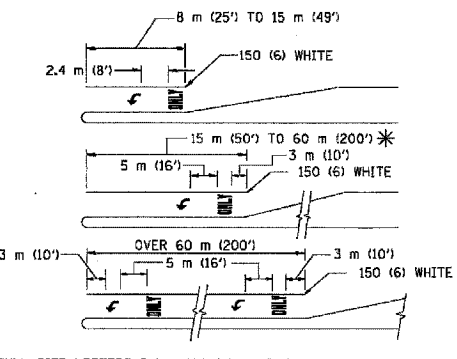
TYPICAL LANE AND EDGE LINE MARKING



TYPICAL PAINTED MEDIAN MARKING



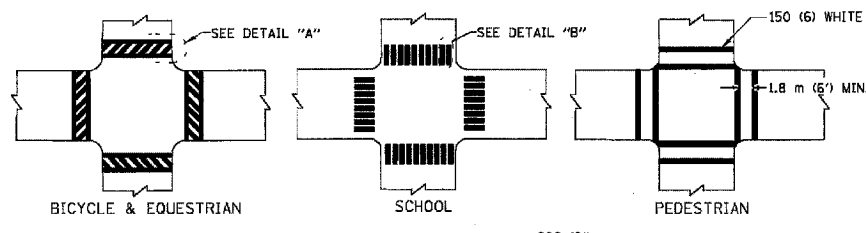
TYPICAL LEFT (OR RIGHT) TURN LANE



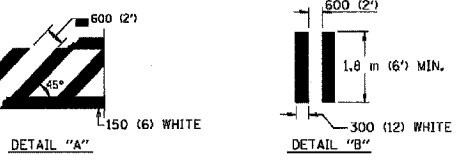
FULL SIZE LETTERS 2.4 m (8') AND ARROWS SHALL BE USED. AREA = 1.5 m² (15.6 SQ. FT.) ONLY AREA = 1.9 m² (20.8 SQ. FT.)

* TURN LANES IN EXCESS OF 120 m (400') IN LENGTH MAY HAVE AN ADDITIONAL SET OF ARROW - "ONLY" INSTALLED MIDWAY BETWEEN THE OTHER TWO SETS OF ARROW - "ONLY".

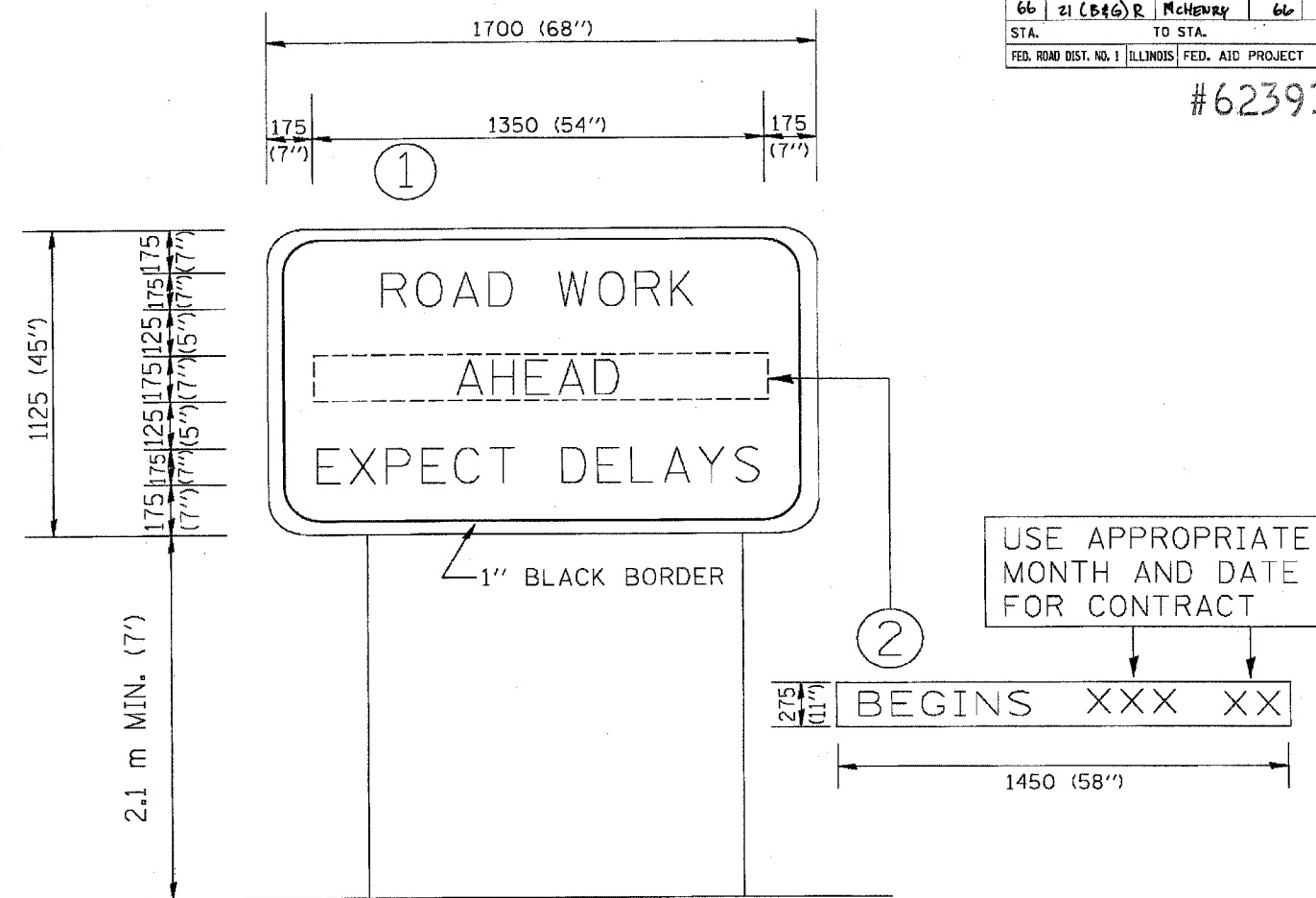
TYPICAL TURN LANE MARKING



TYPICAL CROSSWALK MARKING



#62391



NOTES:

1. USE BLACK LETTERING ON ORANGE BACKGROUND.
2. ERECT SIGNS IN ADVANCE OF THE LOCATION FOR THE "ROAD CONSTRUCTION AHEAD" SIGN AT LOCATIONS AS DIRECTED BY THE ENGINEER.
3. ERECT SIGN ① WITH INSTALLED PANEL ② ONE WEEK PRIOR TO THE START OF CONSTRUCTION.
4. REMOVE PANEL ② SOON AFTER THE START OF CONSTRUCTION.
5. SEE SPECIAL PROVISION FOR "TEMPORARY INFORMATION SIGNING" FOR ADDITIONAL INFORMATION.
6. ONE SIGN ASSEMBLY EQUALS 2.3 SQ. M. (25.70 SQ. FT.)

ALL DIMENSIONS ARE IN MILLIMETERS (INCHES) UNLESS OTHERWISE SHOWN.

REVISIONS	
NAME	DATE
R. MIRS	9-15-97
R. MIRS	12-11-97
T. RAMMACHER	2-2-99

ILLINOIS DEPARTMENT OF TRANSPORTATION
TEMPORARY INFORMATION SIGNING

SCALE:
DATE 10/18/2002

DRAWN BY: BUR. OF DESIGN
CHECKED BY:

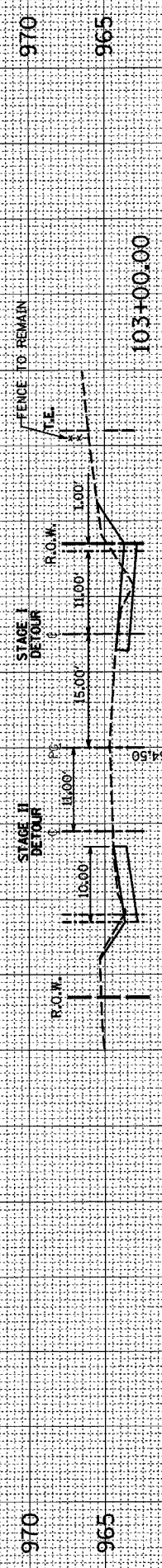
TC22
REVISION DATE: 02/02/99

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
066	21 (B&G) R	MCHENRY	66	55
STA. 100+00.00		TO STA. 103+00.00		
FED. ROAD DIST. NO.		ILLINOIS FED. AID PROJECT		

970 965 #62391

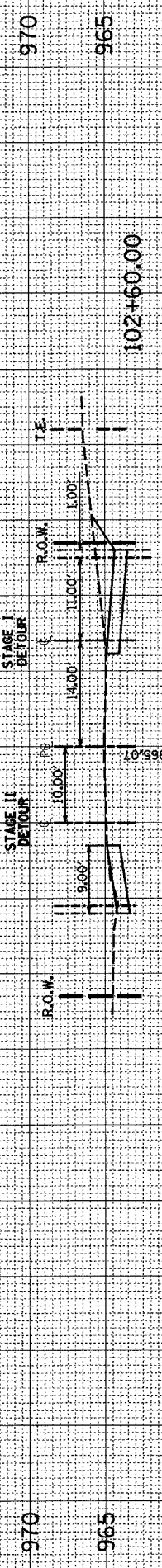
CONTRACTOR TO RESTORE TEMPORARY PAVEMENT AREAS

90 80 70 60 50 40 30 20 10 0 10 20 30 40 50 60 70 80



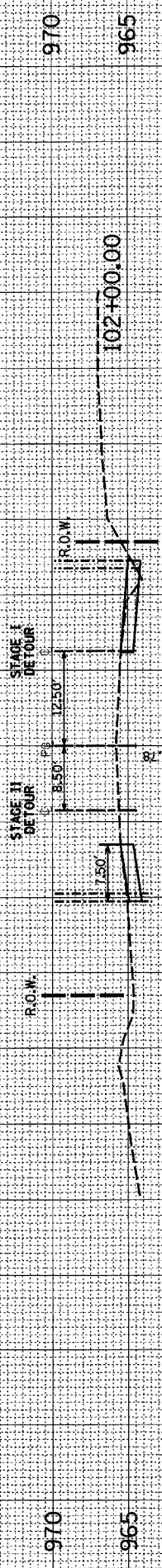
STAGE II
CUT : 8.0' 50 FT
FILL : 0.0' 50 FT
EARTH EXC. (SPECIAL) : 0.0' 50 FT

STAGE I
CUT : 10.5' 50 FT
FILL : 0.0' 50 FT
EARTH EXC. (SPECIAL) : 0.0' 50 FT



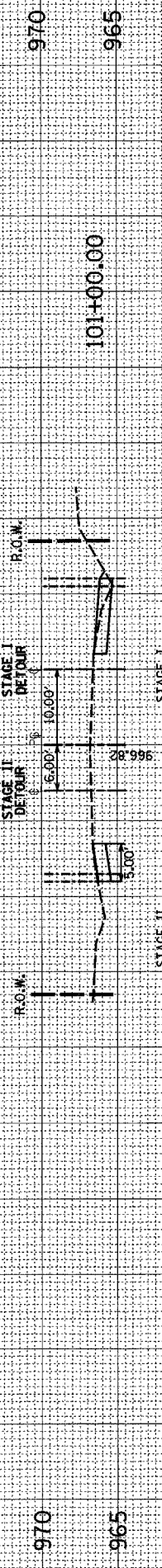
STAGE II
CUT : 8.0' 50 FT
FILL : 0.0' 50 FT
EARTH EXC. (SPECIAL) : 0.0' 50 FT

STAGE I
CUT : 15.2' 50 FT
FILL : 0.0' 50 FT
EARTH EXC. (SPECIAL) : 0.0' 50 FT



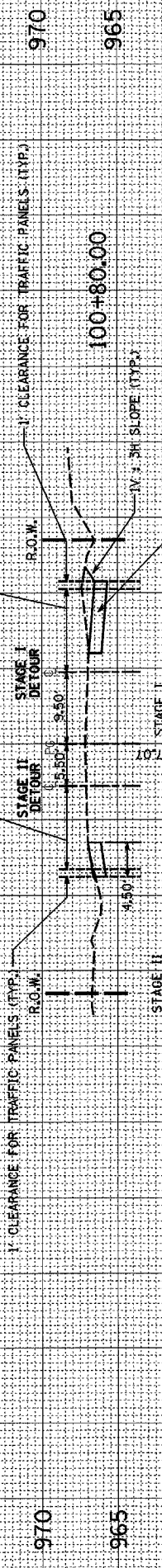
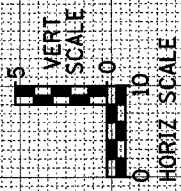
STAGE II
CUT : 3.5' 50 FT
FILL : 0.0' 50 FT
EARTH EXC. (SPECIAL) : 0.0' 50 FT

STAGE I
CUT : 7.0' 50 FT
FILL : 0.0' 50 FT
EARTH EXC. (SPECIAL) : 0.0' 50 FT



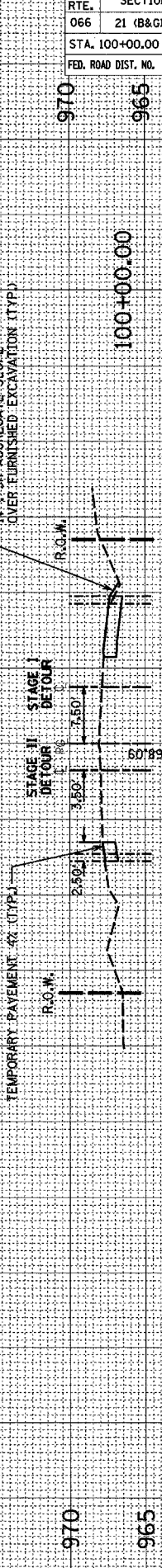
STAGE II
CUT : 3.7' 50 FT
FILL : 0.0' 50 FT
EARTH EXC. (SPECIAL) : 0.0' 50 FT

STAGE I
CUT : 6.7' 50 FT
FILL : 0.0' 50 FT
EARTH EXC. (SPECIAL) : 0.0' 50 FT



STAGE II
CUT : 3.0' 50 FT
FILL : 0.0' 50 FT
EARTH EXC. (SPECIAL) : 0.0' 50 FT

STAGE I
CUT : 10.0' 50 FT
FILL : 0.0' 50 FT
EARTH EXC. (SPECIAL) : 0.0' 50 FT



STAGE II
CUT : 1.3' 50 FT
FILL : 0.0' 50 FT
EARTH EXC. (SPECIAL) : 0.0' 50 FT

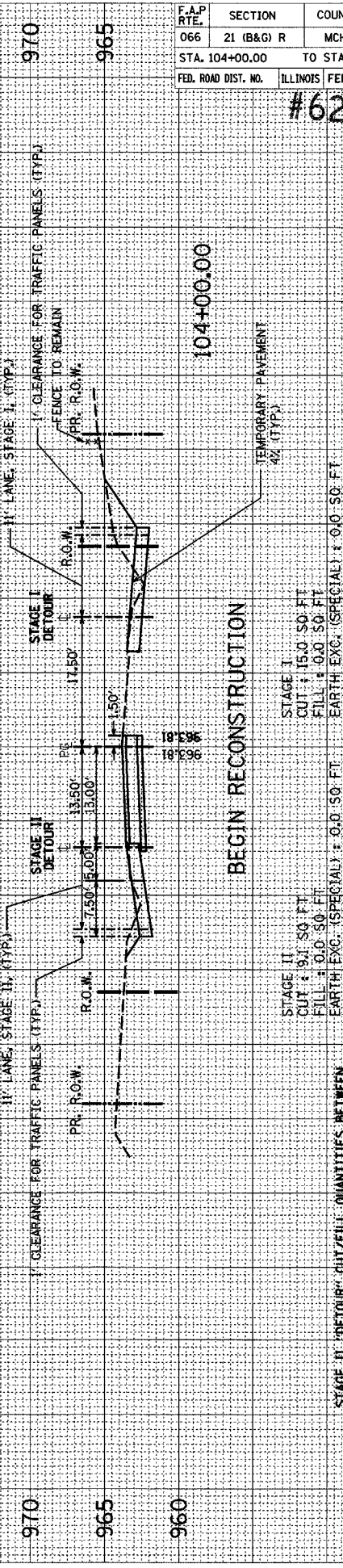
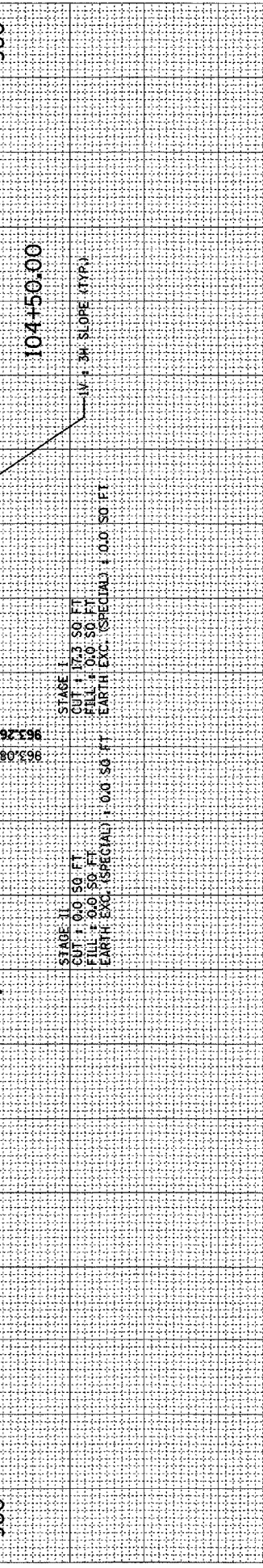
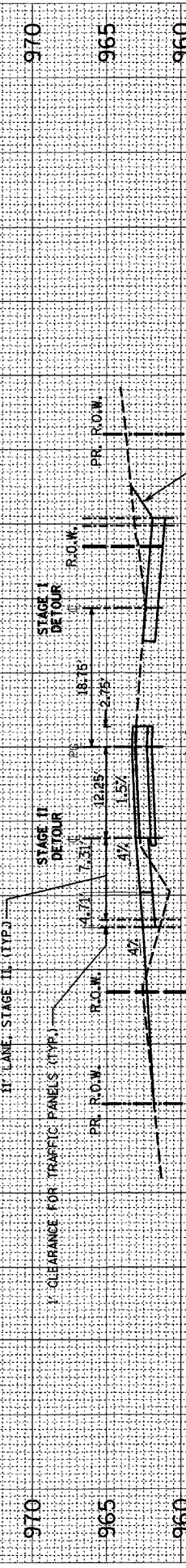
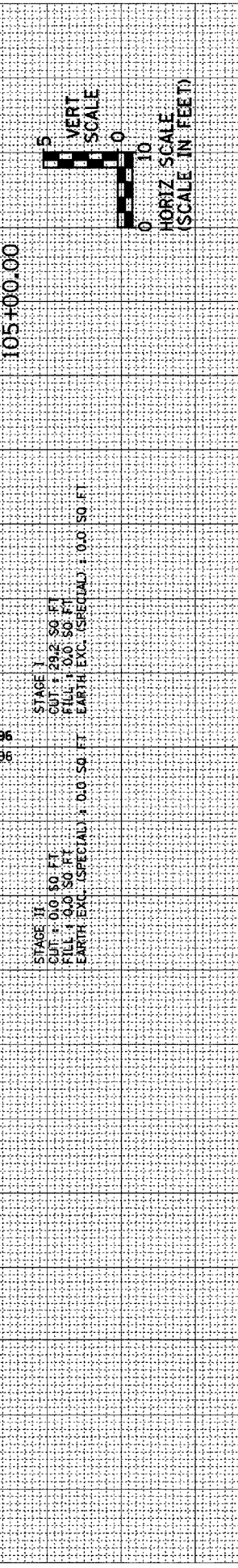
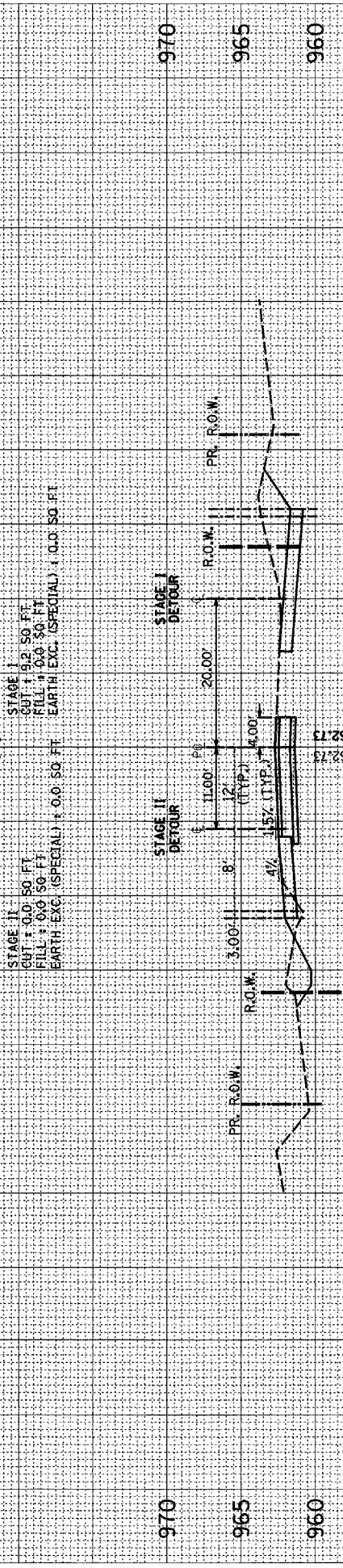
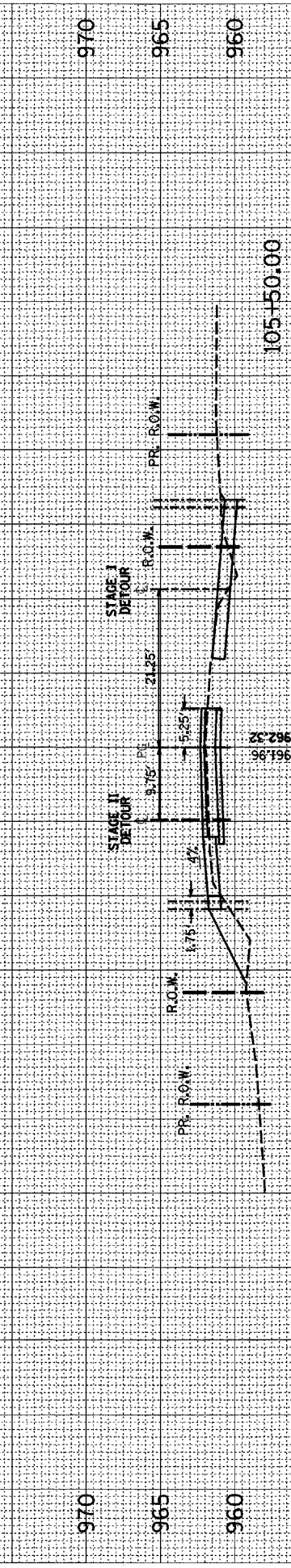
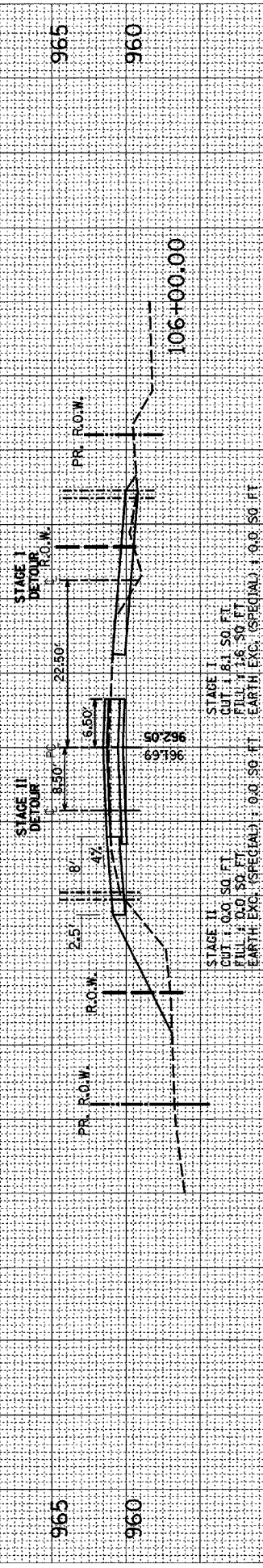
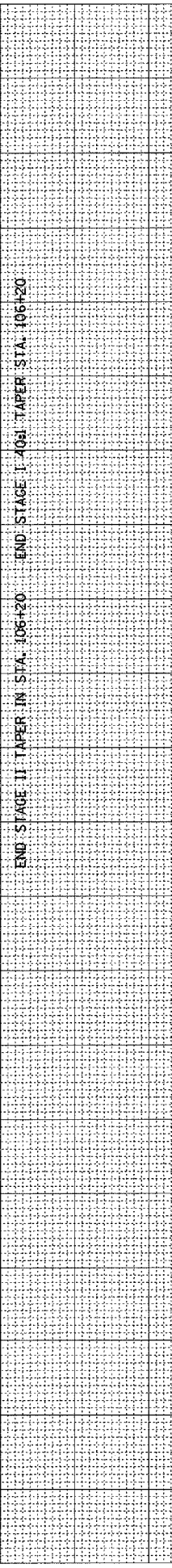
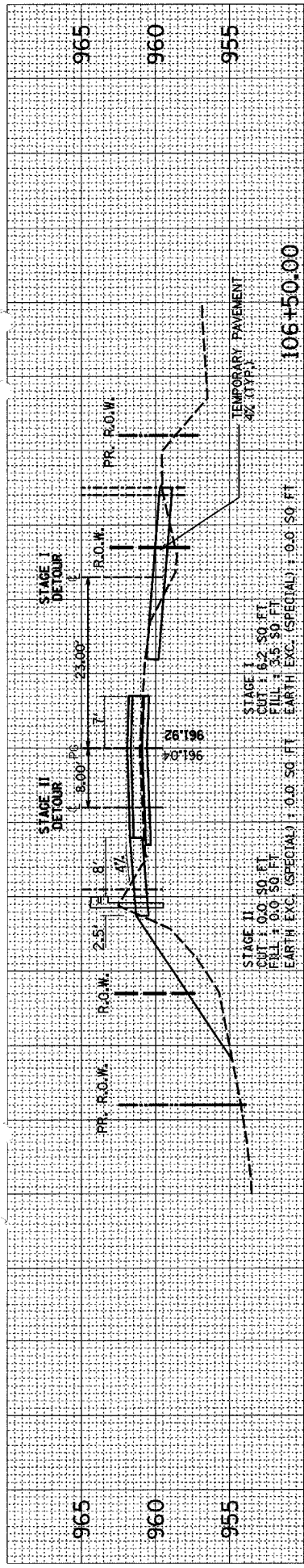
STAGE I
CUT : 4.0' 50 FT
FILL : 0.0' 50 FT
EARTH EXC. (SPECIAL) : 0.0' 50 FT

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
066	21 (B&G) R	MCHENRY		56
STA. 104+00.00		TO STA. 106+50.00		
FED. ROAD DIST. NO.	ILLINOIS FED. AID PROJECT			

#62391

CONTRACTOR TO RESTORE TEMPORARY PAVEMENT AREAS

90 80 70 60 50 40 30 20 10 0 10 20 30 40 50 60 70 80



STAGE II "DETOUR" CUT/FILL QUANTITIES BETWEEN STA 104+00 AND STA 115+10 ARE ACCOUNTED FOR IN "NORMAL" CROSS SECTION QUANTITIES EXCEPT WHERE LABELED

BEGIN RECONSTRUCTION

BEGIN STAGE II TAPER IN END STAGE II 40:1 TAPER OUT

STAGE II
CUT: 0.0 SO. FT.
FILL: 0.0 SO. FT.
EARTH EXC. (SPECIAL): 0.0 SO. FT.

STAGE I
CUT: 0.0 SO. FT.
FILL: 0.0 SO. FT.
EARTH EXC. (SPECIAL): 0.0 SO. FT.

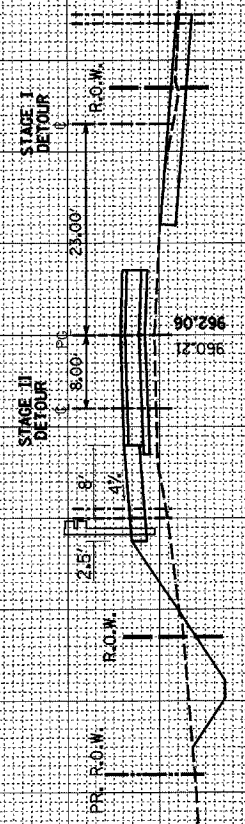
END STAGE II TAPER IN STA. 106+20 END STAGE I 40:1 TAPER STA. 106+20

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
066	21 (B&G) R	MCHENRY	66	57
STA. 107+00.00		TO STA. 109+50.00		
FED. ROAD DIST. NO.		ILLINOIS	FED. AID PROJECT	
		#62391		

CONTRACTOR TO RESURFACE TEMPORARY PAVEMENT AREAS

90 80 70 60 50 40 30 20 10 0 10 20 30 40 50 60 70 80

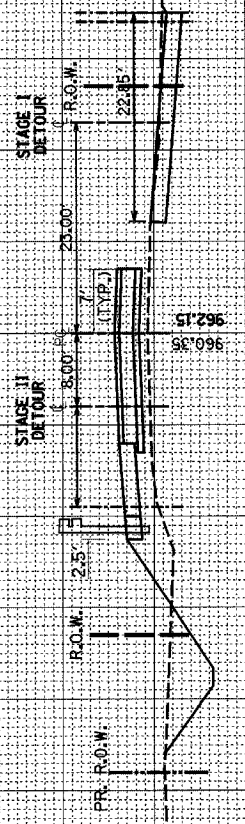
109+50.00



STAGE II
DETOUR
CUT : 0.0' SO. FT.
FILL : 0.0' SO. FT.
EARTH EXC. (SPECIAL) : 0.0' SO. FT.

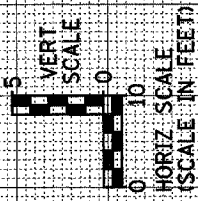
STAGE I
DETOUR
CUT : 14.7' SO. FT.
FILL : 0.0' SO. FT.
EARTH EXC. (SPECIAL) : 0.0' SO. FT.

109+00.00

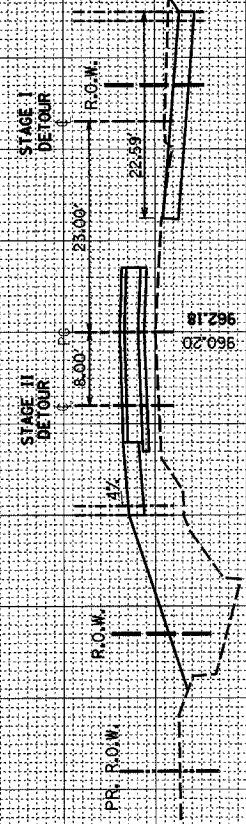


STAGE II
DETOUR
CUT : 0.0' SO. FT.
FILL : 0.0' SO. FT.
EARTH EXC. (SPECIAL) : 0.0' SO. FT.

STAGE I
DETOUR
CUT : 17.2' SO. FT.
FILL : 0.0' SO. FT.
EARTH EXC. (SPECIAL) : 0.0' SO. FT.



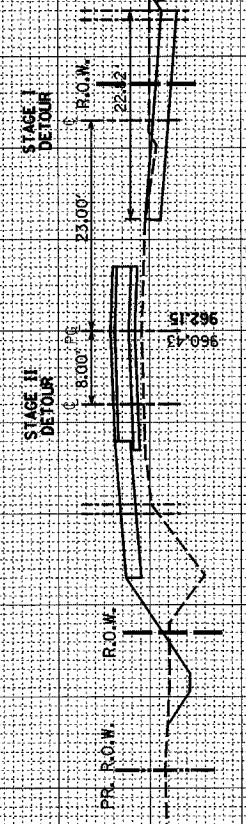
108+50.00



STAGE II
DETOUR
CUT : 0.0' SO. FT.
FILL : 0.0' SO. FT.
EARTH EXC. (SPECIAL) : 0.0' SO. FT.

STAGE I
DETOUR
CUT : 19.2' SO. FT.
FILL : 0.0' SO. FT.
EARTH EXC. (SPECIAL) : 0.0' SO. FT.

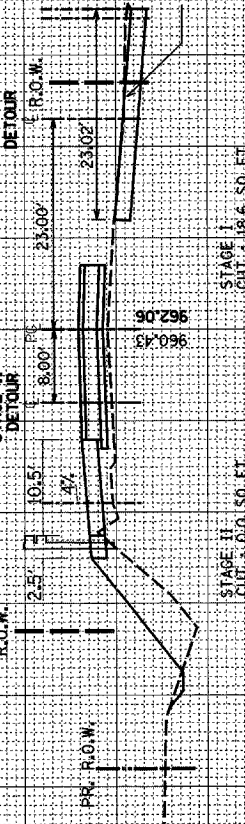
108+00.00



STAGE II
DETOUR
CUT : 0.0' SO. FT.
FILL : 0.0' SO. FT.
EARTH EXC. (SPECIAL) : 0.0' SO. FT.

STAGE I
DETOUR
CUT : 22.6' SO. FT.
FILL : 0.0' SO. FT.
EARTH EXC. (SPECIAL) : 0.0' SO. FT.

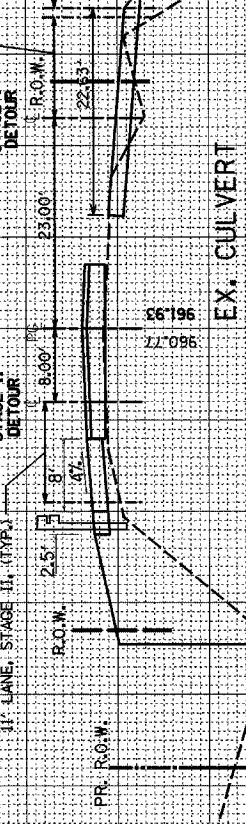
107+50.00



STAGE II
DETOUR
CUT : 0.0' SO. FT.
FILL : 0.0' SO. FT.
EARTH EXC. (SPECIAL) : 0.0' SO. FT.

STAGE I
DETOUR
CUT : 18.6' SO. FT.
FILL : 0.0' SO. FT.
EARTH EXC. (SPECIAL) : 0.0' SO. FT.

107+00.00



STAGE II
DETOUR
CUT : 6.5' SO. FT.
FILL : 0.0' SO. FT.
EARTH EXC. (SPECIAL) : 0.0' SO. FT.

STAGE I
DETOUR
CUT : 14.7' SO. FT.
FILL : 0.0' SO. FT.
EARTH EXC. (SPECIAL) : 0.0' SO. FT.

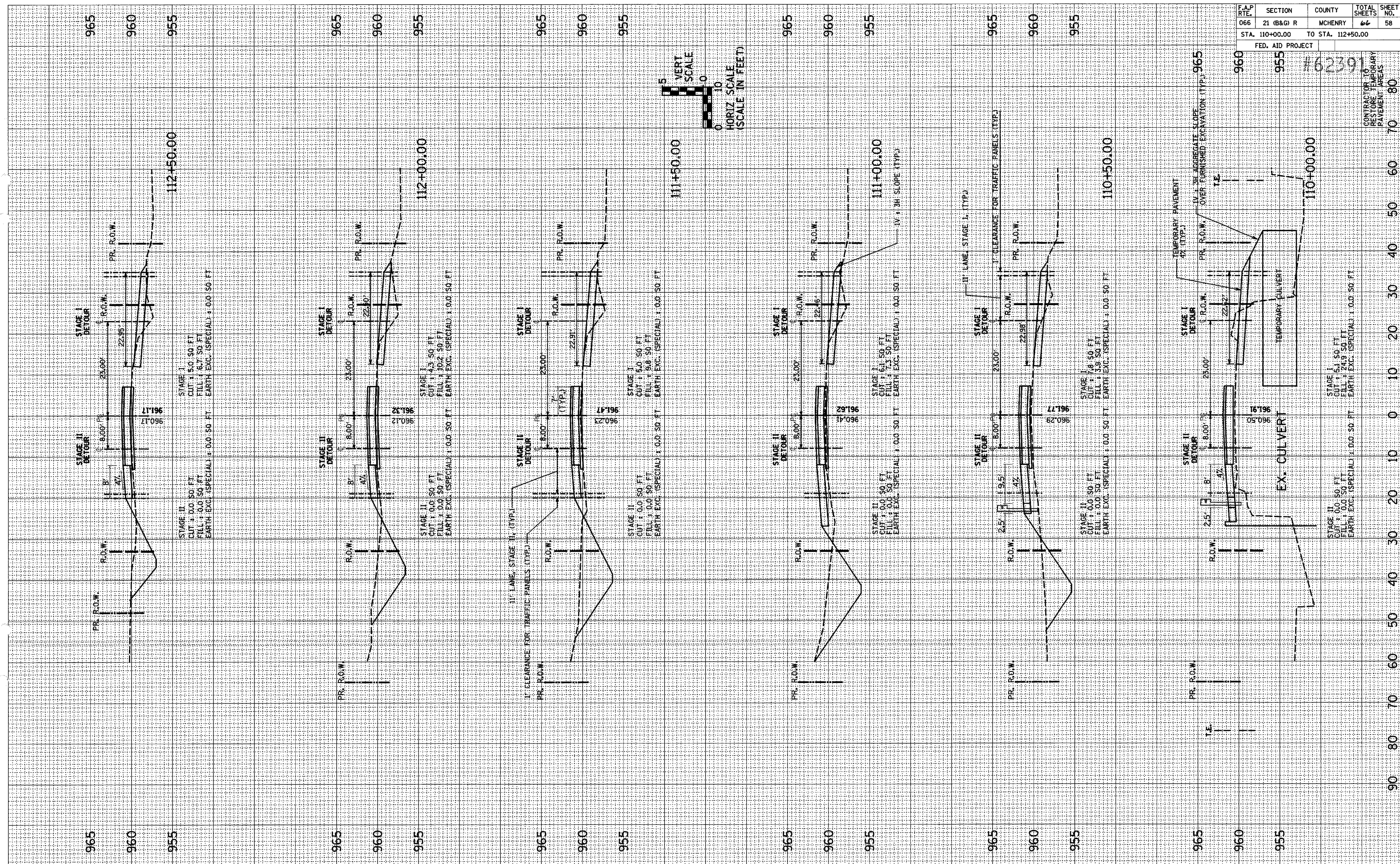
F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
066	21 (B&G) R	MCHENRY	66	58
STA. 110+00.00		TO STA. 112+50.00		

FED. AID PROJECT

CONTRACTOR TO RESTORE TEMPORARY PAVEMENT AREAS

#62391

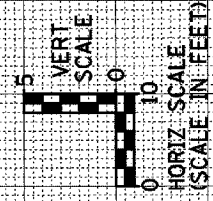
90 80 70 60 50 40 30 20 10 0 10 20 30 40 50 60 70 80



US ROUTE 14 STA. 110+00 TO STA. 112+50 TEMP. PAVEMENT

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
066	21 (B&G) R	MCHENRY	66	62
STA. 103+00		TO STA. 106+00		
FED. ROAD DIST. NO.		ILLINOIS FED. AID PROJECT		

#62391



970 965 960 106+00.00

970 965 960 104+00.00

970 965 960 103+00.00

970 965 960 103+00.00

970 965 960 103+00.00

970 965 960 103+00.00

970 965 960 103+00.00

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970 965 960 103+00.00

970 965 960 103+00.00

970 965 960 103+00.00

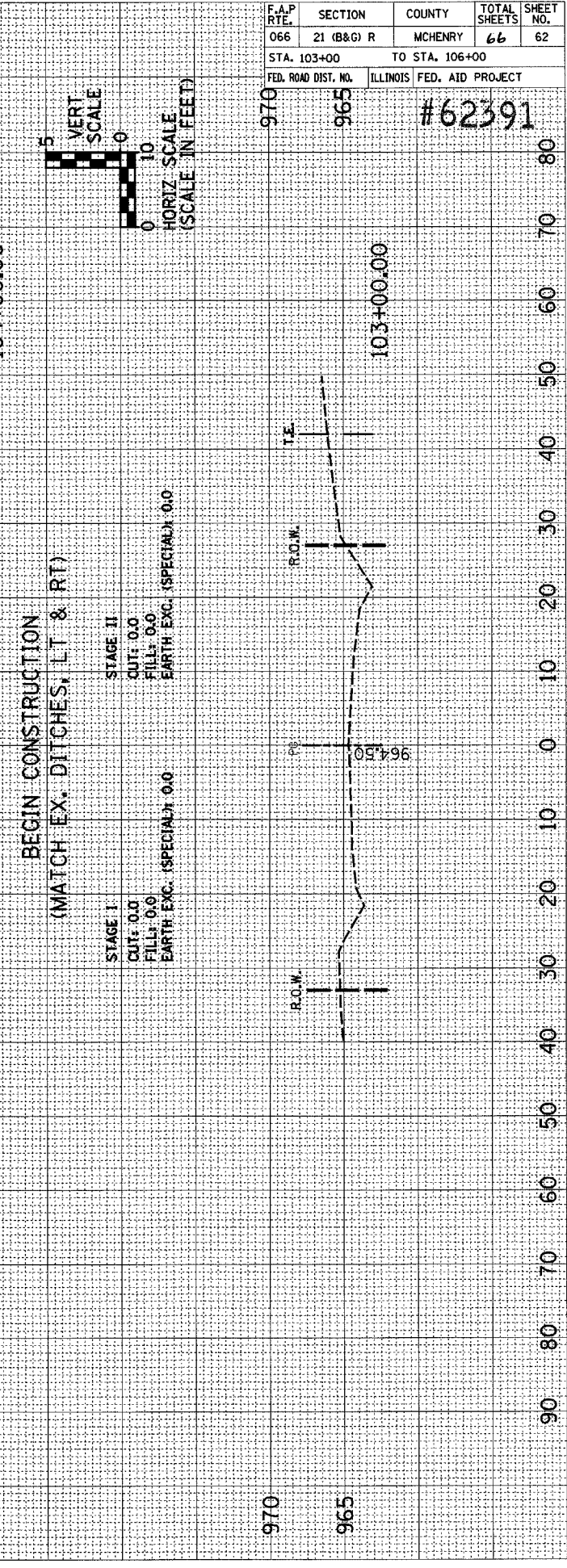
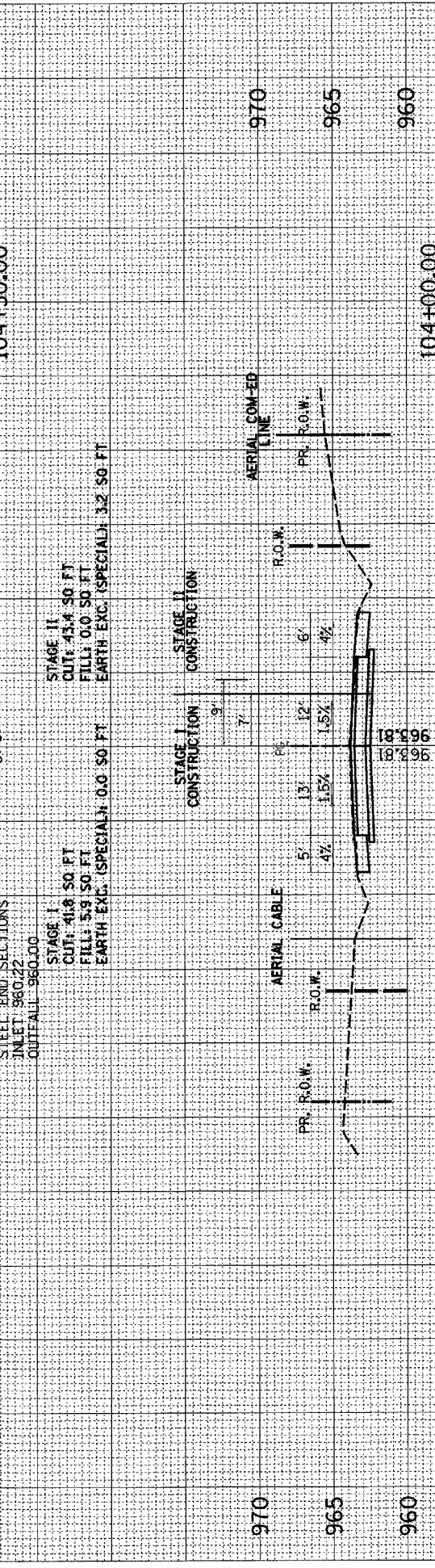
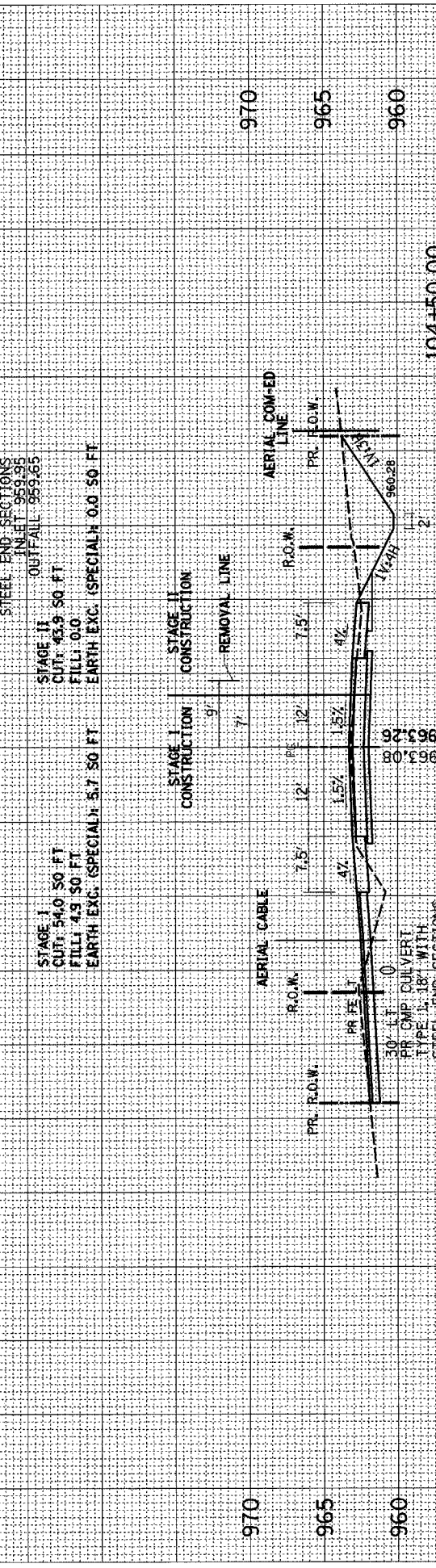
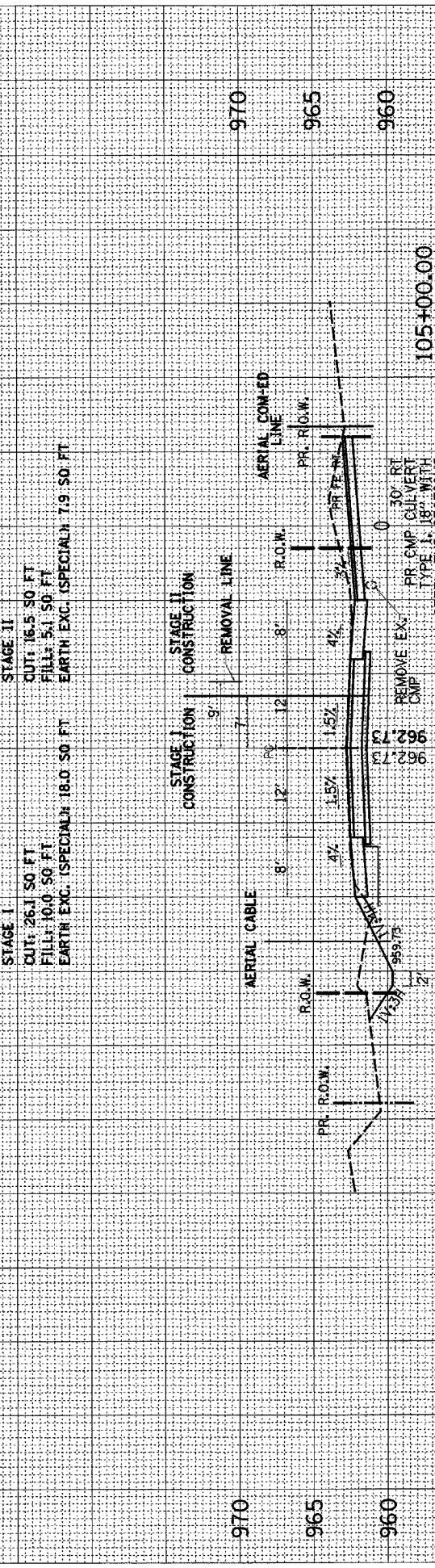
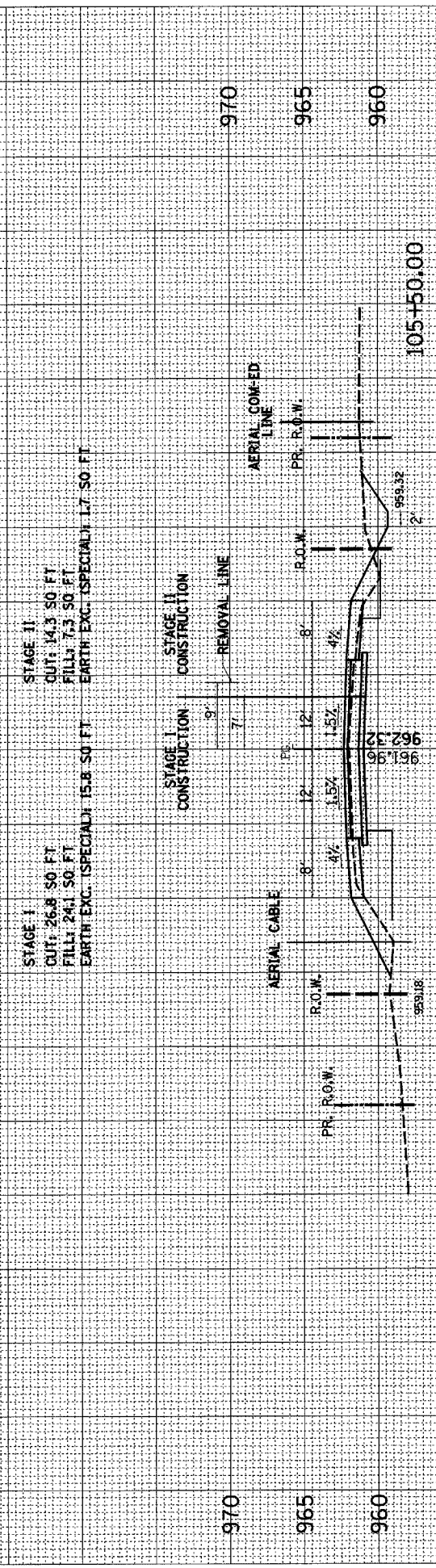
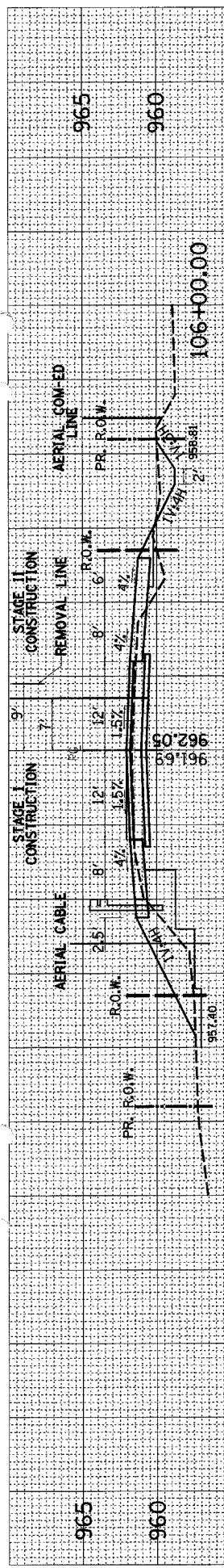
970 965 960 103+00.00

970 965 960 103+00.00

970 965 960 103+00.00

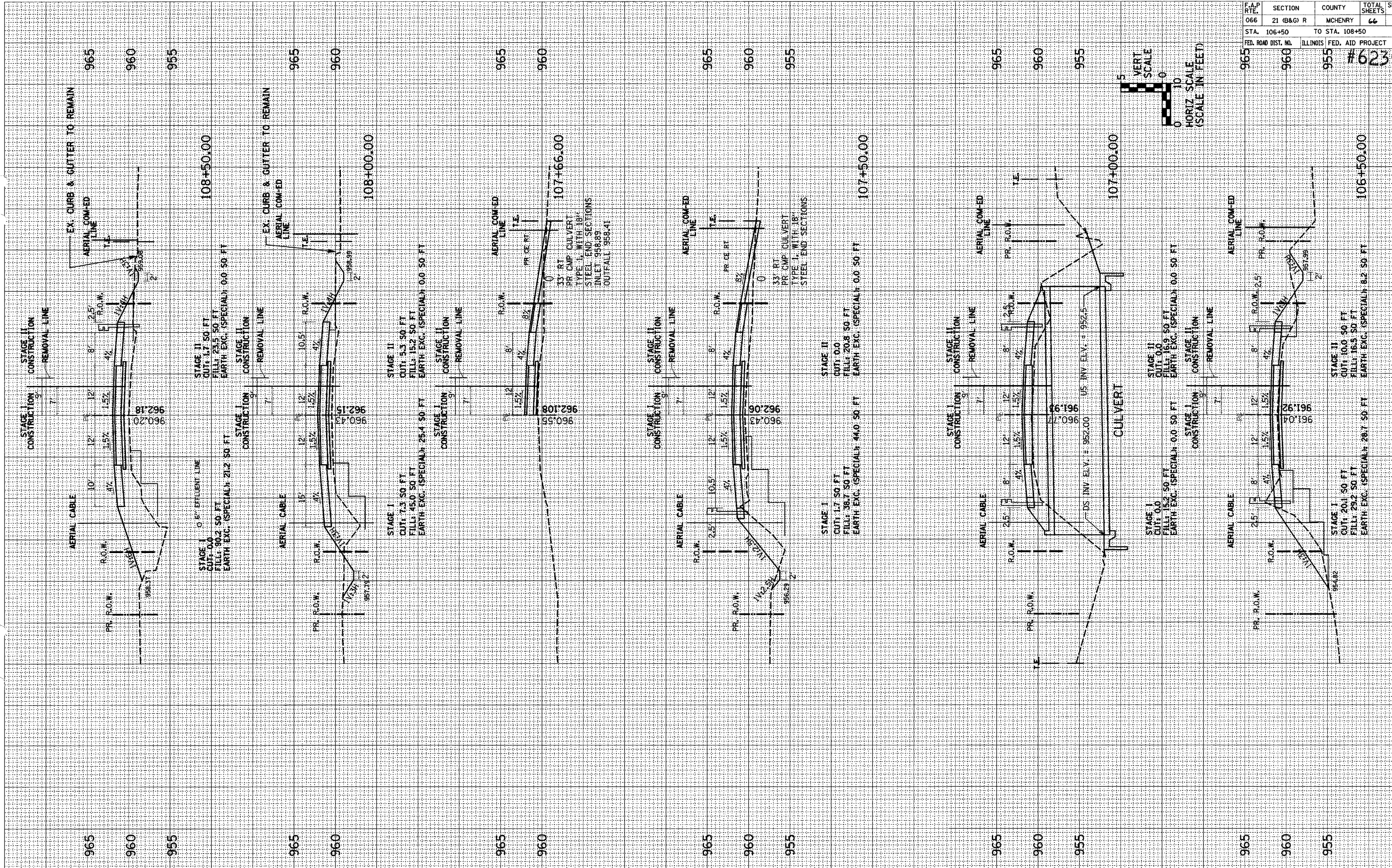
970 965 960 103+00.00

970 965 960 103+00.00



F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
066	21 (B&G) R	MCHENRY	66	63
STA. 106+50		TO STA. 108+50		
FED. ROAD DIST. NO.		ILLINOIS FED. AID PROJECT		
#62391				

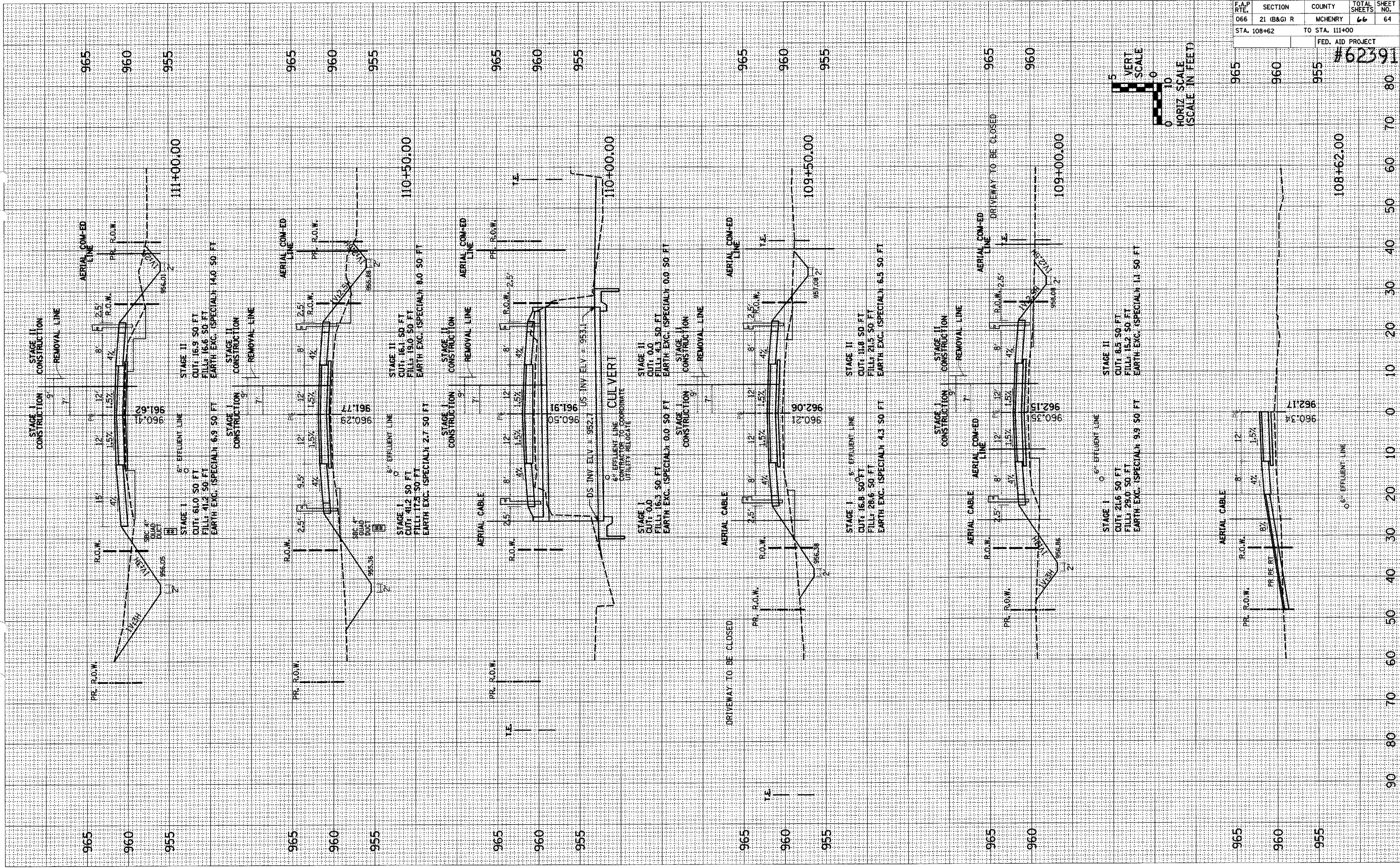
90 80 70 60 50 40 30 20 10 0 10 20 30 40 50 60 70 80



US ROUTE 14 STA. 106+50 TO STA. 108+50

F.A.P. RT.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
066	21 (B&G) R	MCHENRY	66	64
STA. 108+62		TO STA. 111+00		
FED. AID PROJECT				

#62391



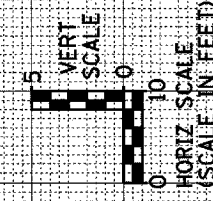
US ROUTE 14 STA. 108+62 TO STA. 111+00

DCN-SPEC

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
066	21 (B&G) R	MCHENRY	66	65
STA. 111+50		TO STA. 113+00		
FED. ROAD DIST. NO.		ILLINOIS FED. AID PROJECT		

#62391

111+50.00

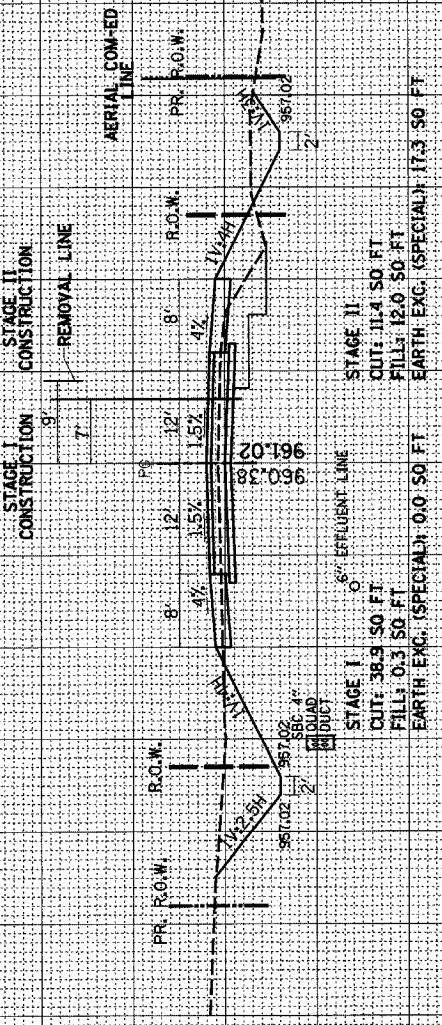


VERT SCALE
HORIZ SCALE
(SCALE IN FEET)

90 80 70 60 50 40 30 20 10 0 10 20 30 40 50 60 70 80

965 960 955

113+00.00



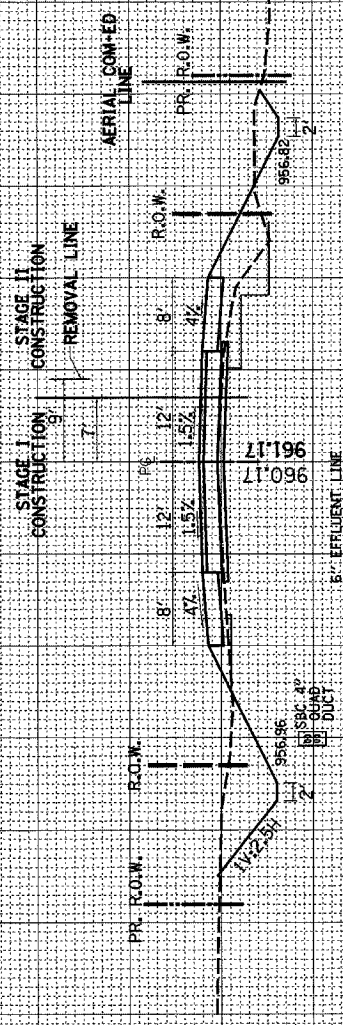
STAGE I
CUT: 38.9 SO. FT
FILL: 0.3 SO. FT
EARTH EXC. (SPECIAL): 0.0 SO. FT

STAGE II
CUT: 11.4 SO. FT
FILL: 12.0 SO. FT
EARTH EXC. (SPECIAL): 17.3 SO. FT

965 960 955

965 960 955

112+50.00



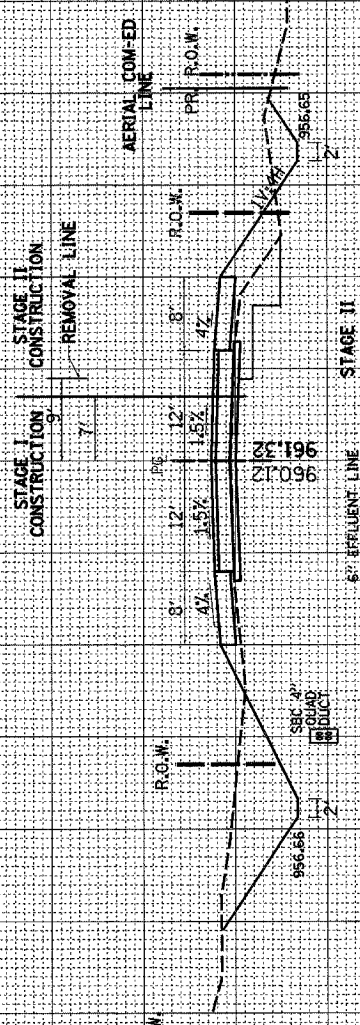
STAGE I
CUT: 29.9 SO. FT
FILL: 4.9 SO. FT
EARTH EXC. (SPECIAL): 1.2 SO. FT

STAGE II
CUT: 8.2 SO. FT
FILL: 20.0 SO. FT
EARTH EXC. (SPECIAL): 17.7 SO. FT

965 960 955

965 960 955

112+00.00



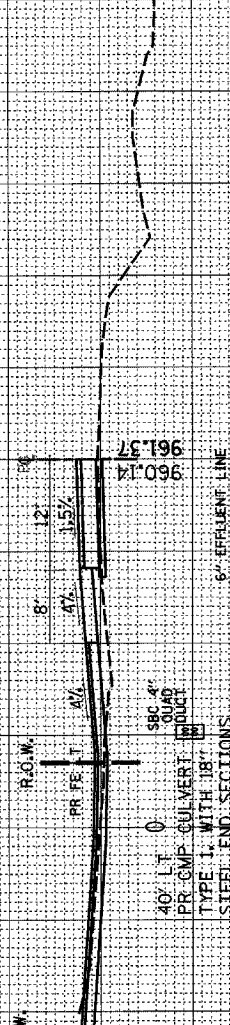
STAGE I
CUT: 51.7 SO. FT
FILL: 5.2 SO. FT
EARTH EXC. (SPECIAL): 0.0 SO. FT

STAGE II
CUT: 24.3 SO. FT
FILL: 14.9 SO. FT
EARTH EXC. (SPECIAL): 17.3 SO. FT

965 960 955

965 960 955

111+82.00



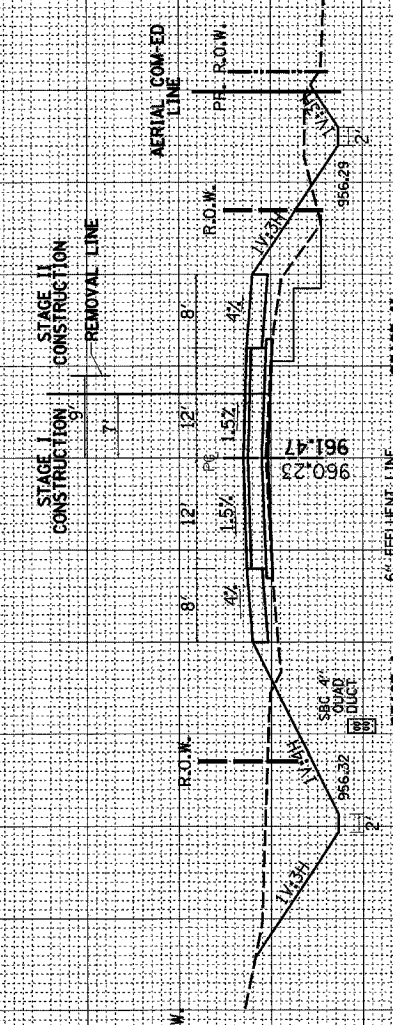
STAGE I
CUT: 70.4 SO. FT
FILL: 8.0 SO. FT
EARTH EXC. (SPECIAL): 0.0 SO. FT

STAGE II
CUT: 13.0 SO. FT
FILL: 18.7 SO. FT
EARTH EXC. (SPECIAL): 20.4 SO. FT

965 960 955

965 960 955

111+50.00



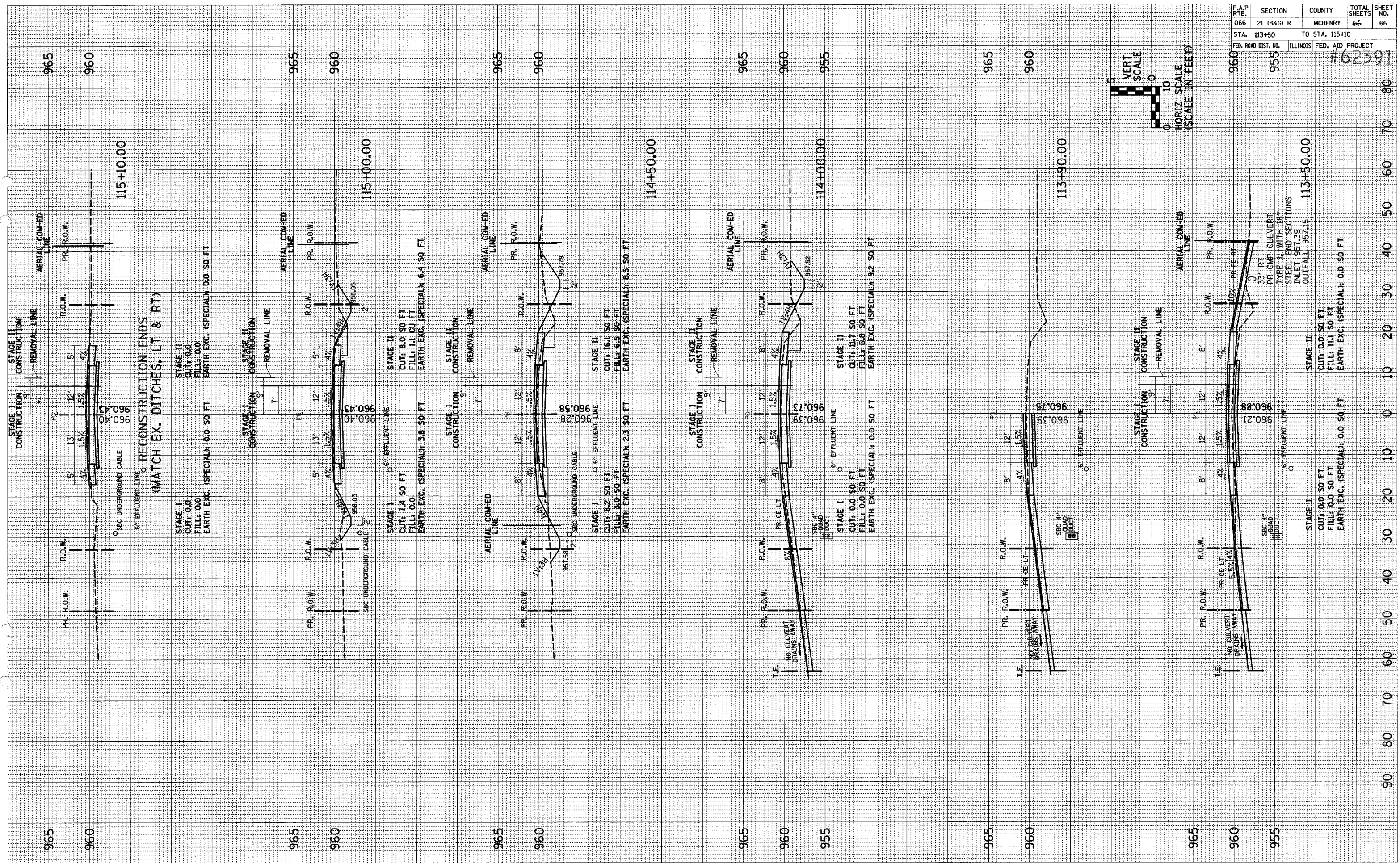
STAGE I
CUT: 70.4 SO. FT
FILL: 8.0 SO. FT
EARTH EXC. (SPECIAL): 0.0 SO. FT

STAGE II
CUT: 13.0 SO. FT
FILL: 18.7 SO. FT
EARTH EXC. (SPECIAL): 20.4 SO. FT

965 960 955

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
066	21 (B&G) R	MCHENRY	66	66
STA. 113+50		TO STA. 115+10		
FED. ROAD DIST. NO.		ILLINOIS	FED. AID PROJECT #62391	

90 80 70 60 50 40 30 20 10 0 10 20 30 40 50 60 70 80



US ROUTE 14 STA. 113+50 TO STA. 115+10

DGN-SPEC