

08-01-14 LETTING ITEM 134

STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION  
DIVISION OF HIGHWAYS  
**PROPOSED  
HIGHWAY PLANS**

F.A.P. 066: US ROUTE 14  
OVER LAWRENCE CREEK TRIBUTARY  
SECTION: 21B-R  
PROJECT NO.: ACF-0066(008)  
BOX CULVERT REPLACEMENT  
MCHENRY COUNTY  
C-91-532-12

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
066	21B-R	MCHENRY	40	1
FED. ROAD DIST. NO. 1	ILLINOIS	CONTRACT NO. 60V25		

D-91-532-12 \*40 of 41

FOR INDEX OF SHEETS, SEE SHEET NO. 2

IMPROVEMENT LOCATED WITHIN  
UNINCORPORATED MCHENRY COUNTY

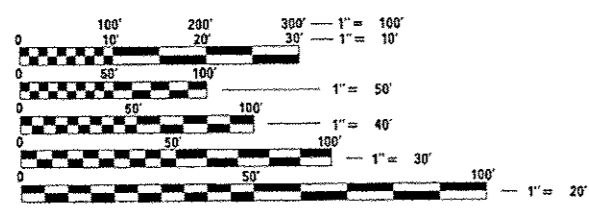


**TRAFFIC DATA**  
US ROUTE 14  
2012 ADT = 4,450  
POSTED SPEED LIMIT = 55 MPH  
DESIGN SPEED LIMIT = 60 MPH

BEGIN PROJECT:  
US ROUTE 14  
STA 99+45

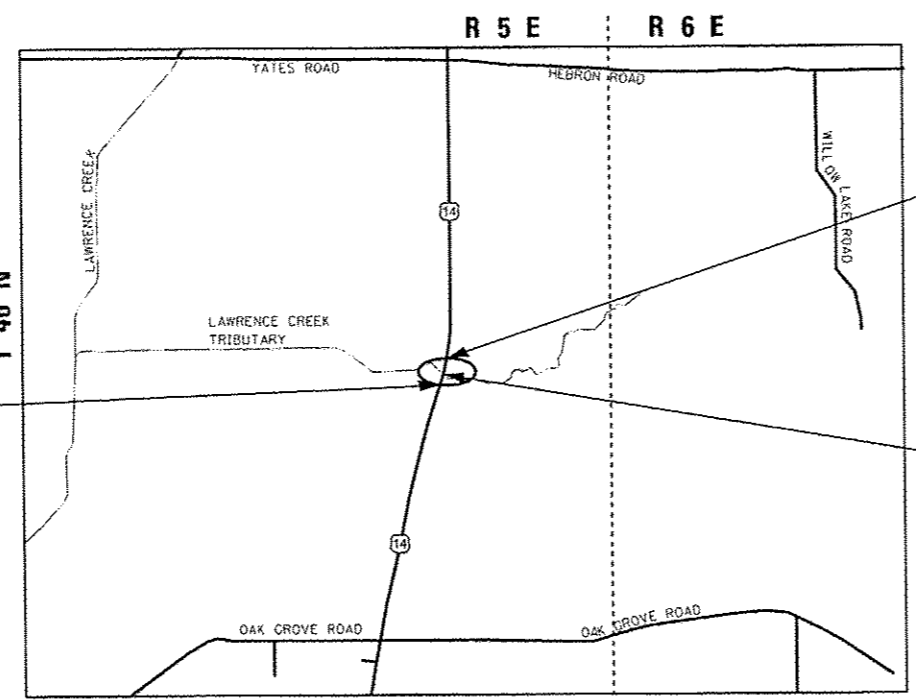
END PROJECT:  
US ROUTE 14  
STA 100+45

BOX CULVERT EXIST. SN 056-2001  
BOX CULVERT PROP. SN 056-0086



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  
OR 811



LOCATION MAP  
NOT TO SCALE  
CHEMUNG TOWNSHIP

GROSS LENGTH OF PROJECT = 100 FT = 0.0189 MILE  
NET LENGTH OF PROJECT = 100 FT = 0.0189 MILE

PROJECT MANAGER: ISSAM RYAN (847) 705-4178  
PROJECT ENGINEER: ROBERT BORO (847) 705-4237

CONTRACT NO. 60V25

MILLENNIA PROFESSIONAL SERVICES OF IL., LTD.  
EMMANUEL GOMEZ, P.E.  
IL. LIC. NO. 062-049155  
EXPIRES 11/30/2015

SIGNED: *Emmanuel Gomez*  
DATE: 5/2/2014

HBM ENGINEERING GROUP, LLC.  
DR. MOUSSA A. ISSA, S.E.  
IL. LIC. NO. 081-005738  
EXPIRES 11/30/2014

SIGNED: *Moussa A. Issa*  
DATE: 05/02/2014

ATLAS ENGINEERING GROUP, LTD.  
JIAN XI, P.E.  
IL. LIC. NO. 062-058208  
EXPIRES 11/30/2015

SIGNED: *Jian Xi*  
DATE: 05/02/2014

STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION  
DIVISION OF HIGHWAYS

SUBMITTED *May 5 2014*

*John Fortmann, Jr.*  
DEPUTY DIRECTOR OF HIGHWAYS, REGION ENGINEER

*June 27 2014*  
*John D. Baranzelli, P.E., PE*  
acting ENGINEER OF DESIGN AND ENVIRONMENT

*June 27 2014*  
*Omer Osman, P.E., PE*  
DIRECTOR OF HIGHWAYS, CHIEF ENGINEER

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630.705.0110 voice, 630.839.2566 fax  
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MILLENNIA PROFESSIONAL SERVICES

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Rev.

GENERAL NOTES

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\* 33A. EARTHWORK SCHEDULE

LIST OF ILLINOIS DOT HIGHWAY STANDARDS

- 000001-06 STANDARD SYMBOLS, ABBREVIATIONS, AND PATTERNS
- 001001-02 AREAS OF REINFORCEMENT BARS
- 001006 DECIMAL OF AN INCH AND OF A FOOT
- 280001-07 TEMPORARY EROSION CONTROL SYSTEMS
- 482001-02 HMA SHOULDER ADJACENT TO FLEXIBLE PAVEMENT
- 482011-03 HMA SHLD. STRIPS/SHLDS. WITH RESURFACING OR WIDENING AND RESURFACING
- 515001-03 NAME PLATE FOR BRIDGES
- 542301-03 PRECAST CONCRETE REINFORCED FLARED END SECTION
- 630001-10 STEEL PLATE BEAM GUARDRAIL
- 630101-09 GUARDRAIL MOUNTED ON EXISTING CULVERTS
- 630201-06 PCC/HMA STABILIZATION AT STEEL PLATE BEAM GUARDRAIL
- 630301-06 SHOULDER WIDENING FOR TYPE 1 (SPECIAL) GUARDRAIL TERMINALS
- 635006-03 REFLECTOR AND TERMINAL MARKER PLACEMENT
- 635011-07 REFLECTOR MARKER AND MOUNTING DETAILS
- 701006-05 OFF-RD OPERATIONS, 2L, 2W, 15' (4.5 m) TO 24' (600 mm) FROM EDGE OF PAVEMENT
- 701011-04 OFF-RD MOVING OPERATIONS, 2L, 2W, DAY ONLY
- 701301-04 LANE CLOSURE, 2L, 2W, SHORT TIME OPERATIONS
- 701326-04 LANE CLOSURE, 2L, 2W, PAVEMENT WIDENING FOR SPEEDS >= 45 MPH
- 701331-04 LANE CLOSURE, 2L, 2W, WITH RUN-AROUND, FOR SPEEDS >= 45 MPH
- 701901-03 TRAFFIC CONTROL DEVICES
- 704001-07 TEMPORARY CONCRETE BARRIER
- 780001-04 TYPICAL PAVEMENT MARKINGS
- 781001-03 TYPICAL APPLICATIONS RAISED REFLECTIVE PAVEMENT MARKERS

1. BEFORE STARTING ANY EXCAVATION, THE CONTRACTOR SHALL CALL "J.U.L.I.E." AT 800-892-0123 FOR FIELD LOCATIONS OF BURIED ELECTRIC, TELEPHONE, AND GAS FACILITIES. 48 HOUR NOTIFICATION IS REQUIRED.
2. THE CONTRACTOR SHALL COORDINATE CONSTRUCTION ACTIVITIES WITH THE UTILITY COMPANIES.
3. THE CONTRACTOR WILL NOT BE ALLOWED TO SET UP A YARD OR FIELD OFFICE ON STATE PROPERTY WITHOUT WRITTEN PERMISSION FROM THE DEPARTMENT.
4. ALL DAMAGE TO EXISTING PAVEMENT MARKING OR RAISED REFLECTIVE PAVEMENT MARKERS OUTSIDE THE REMOVAL LINE SHOWN ON THE PLANS SHALL BE REPLACED AT THE CONTRACTORS EXPENSE AT NO ADDITIONAL COST TO THE DEPARTMENT.
5. BEFORE BEGINNING ANY WORK, THE CONTRACTOR SHALL RETAIN AND RECORD FOR FUTURE REFERENCES, ALL EXISTING PAVEMENT MARKING LINES AND RAISED REFLECTIVE PAVEMENT MARKERS IN ORDER THAT THESE LOCATIONS CAN BE RE-ESTABLISHED FOR STRIPING. EXACT LOCATIONS OF ALL STRIPING SHALL BE AS DIRECTED BY THE ENGINEER.
6. THE CONTRACTOR SHALL BE RESPONSIBLE FOR VERIFYING ALL DIMENSIONS AND CONDITIONS EXISTING IN THE FIELD PRIOR TO CONSTRUCTION AND ORDERING MATERIALS.
7. THE CONTRACTOR SHALL CONTACT THE DISTRICT ONE TRAFFIC CONTROL SUPERVISOR AT (847) 705-4470 A MINIMUM OF 72 HOURS IN ADVANCE OF BEGINNING WORK.
8. THE CONTRACTOR SHALL BE REQUIRED TO PROVIDE ACCESS TO ADJUTING PROPERTY AT ALL TIMES DURING THE CONSTRUCTION OF THIS PROJECT.
9. DO NOT SCALE PLANS FOR CONSTRUCTION DIMENSIONS.
10. DOUBLE LANE MARKERS ARE TO BE USED AS SHOWN ON THE DISTRICT ONE DETAIL "TYPICAL APPLICATIONS - RAISED REFLECTIVE PAVEMENT MARKERS (SNOW-PLOW RESISTANT)" SHOWN ON THE PLANS.
11. FRAMES AND GRATES ADJUSTMENT OF PRIVATE UTILITIES WITHIN THE LIMITS OF THE IMPROVEMENTS SHALL BE DONE BY THEIR RESPECTIVE OWNERS AND ARE NOT PART OF THIS CONTRACT.
12. THE CONTRACTOR SHALL PLACE PROPOSED PAVEMENT MARKINGS IN ACCORDANCE WITH DISTRICT 1 TYPICAL PAVEMENT MARKINGS DETAIL (TC-13).

13. THE CONTRACTOR SHALL REMOVE AND DISPOSE OF ALL LOGS, SHRUBS, BUSHES, SAPLINGS, UNDERBRUSH OR DEBRIS ACCORDING TO SECTION 201 OF THE STANDARD SPECIFICATIONS AT LOCATIONS REQUIRING ACCESS TO THE SUBSTRUCTURE. THIS WORK WILL NOT BE PAID FOR SEPARATELY, BUT THE COST SHALL BE CONSIDERED AS INCLUDED IN THE CONTRACT AND NO ADDITIONAL COMPENSATION WILL BE ALLOWED.
14. ANY ABANDONED UTILITY OR SEWER ENCOUNTERED DURING CONSTRUCTION SHALL BE PLUGGED AS DIRECTED BY THE ENGINEER AND ABANDONED IN PLACE. THIS WORK SHALL BE INCIDENTAL TO THE COST OF THE CONTRACT.
15. DURING CONSTRUCTION OPERATIONS, IF ANY LOOSE MATERIAL IS DEPOSITED IN THE FLOW LINE OF DRAINAGE STRUCTURES SUCH THAT THE NATURAL FLOW OF WATER IS OBSTRUCTED, THE MATERIAL SHALL BE REMOVED AT THE CLOSE OF EACH WORKING DAY. AT THE CONCLUSION OF CONSTRUCTION OPERATIONS, ALL UTILITY STRUCTURES SHALL BE FREE OF DUST AND DEBRIS. THE WORK SPECIFIED ABOVE WILL NOT BE PAID FOR SEPARATELY BUT SHALL BE INCIDENTAL IN THE COST OF THE CONTRACT.
16. ~~IF CONFLICTS OCCUR AND RELOCATION OF THE NEW FACILITIES IS NOT FEASIBLE, THE CONTRACTOR SHALL WORK WITH THE ENGINEER TO MAKE ARRANGEMENTS WITH THE UTILITY COMPANIES TO HAVE THE AFFECTED UTILITIES PROTECTED OR RELOCATED. NO ADDITIONAL COMPENSATION WILL BE ALLOWED AS A RESULT OF ANY ADDITIONAL COSTS.~~
16. THIS PROJECT REQUIRES A US ARMY CORPS OF ENGINEERS (USACE) 404 PERMIT THAT WILL BE SECURED BY THE DEPARTMENT. AS A CONDITION OF THIS PERMIT, THE CONTRACTOR WILL NEED TO SUBMIT AN IN-STREAM WORK PLAN TO THE DEPARTMENT FOR APPROVAL. GUIDELINES ON ACCEPTABLE IN-STREAM WORK TECHNIQUES CAN BE FOUND ON THE USACE WEBSITE. THE USACE DEFINES AND DETERMINES IN-STREAM WORK. THE COST OF ALL MATERIALS AND LABOR NECESSARY TO COMPLY WITH THE ABOVE PROVISIONS TO PREPARE AND IMPLEMENT AN IN-STREAM WORK PLAN WILL NOT BE PAID FOR SEPARATELY, BUT SHALL BE CONSIDERED AS INCLUDED IN THE UNIT BID PRICES OF THE CONTRACT AND NO ADDITIONAL COMPENSATION WILL BE ALLOWED.
17. THE ENGINEER SHALL CONTACT WALTER CZARNA AREA TRAFFIC FIELD ENGINEER AT 847-715-8419 (CELL) A MINIMUM OF TWO (2) WEEKS PRIOR TO THE PLACMENT OF PERMANENT PAVEMENT MARKINGS.
18. THE STRUCTURAL PLANS, TOTAL BILL OF MATERIALS, LIST "REMOVAL AND DISPOSAL OF UNSUITABLE MATERIAL". PER ARTICLE 211.03 OF THE STANDARD SPECIFICATIONS THIS MATERIAL SHALL BE USED AS TOPSOIL AND SHALL BE PAID FOR AT THE CONTRACT UNIT PRICE FOR TOPSOIL EXCAVATION AND PLACEMENT.

FILE NAME = P:\2811ME11807\_YorVer\_PN1\CADD\W066.US14\Sh11\82-0160V25-shtrgenote.dgn  
 PLOT SCALE = 2.0000 / 1" = 100'-0"  
 USER NAME = Millennium Professional Services



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STATE OF ILLINOIS  
 DEPARTMENT OF TRANSPORTATION

US ROUTE 14 OVER LAWRENCE CREEK TRIBUTARY  
 INDEX OF SHEETS, LIST OF IDOT  
 HIGHWAY STANDARDS AND GENERAL NOTES

SCALE: N/A SHEET NO. 1 OF 1 SHEETS STA. TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
066	21B-R	MCHENRY	40	2
CONTRACT NO.			60V25	

FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT  
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SUMMARY OF QUANTITIES

CODE NO.	ITEM DESCRIPTION	UNIT	TOTAL QUANTITY	CONSTRUCTION TYPE CODE	
				ROADWAY	STRUCTURE
				0004	0011
20100210	TREE REMOVAL (OVER 15 UNITS DIAMETER)	UNIT	24	24	
20201200	REMOVAL AND DISPOSAL OF UNSUITABLE MATERIAL	CU YD	110		110
20400800	FURNISHED EXCAVATION	CU YD	860	860	
20800150	TRENCH BACKFILL	CU YD	15	15	
21101625	TOPSOIL FURNISH AND PLACE, 6"	SQ YD	3792	3792	
21101505	TOPSOIL EXCAVATION AND PLACEMENT	CU YD	93	93	
25000312	SEEDING, CLASS 4A	ACRE	0.9	0.9	
25000400	NITROGEN FERTILIZER NUTRIENT	POUND	81	81	
25000600	POTASSIUM FERTILIZER NUTRIENT	POUND	81	81	
25100635	HEAVY DUTY EROSION CONTROL BLANKET	SQ YD	4350	4350	
28000250	TEMPORARY EROSION CONTROL SEEDING	POUND	70	70	
28000305	TEMPORARY DITCH CHECKS	FOOT	30	30	
28000400	PERIMETER EROSION BARRIER	FOOT	2626	2626	
28001100	TEMPORARY EROSION CONTROL BLANKET	SQ YD	3563	3563	
28100107	STONE RIPRAP, CLASS A4	SQ YD	140	45	95
28200200	FILTER FABRIC	SQ YD	140	45	95
30300001	AGGREGATE SUBGRADE IMPROVEMENT	CU YD	944		944
30300112	AGGREGATE SUBGRADE IMPROVEMENT 12"	SQ YD	2791	2791	
35102000	AGGREGATE BASE COURSE, TYPE B 8"	SQ YD	114	114	
40603085	HOT-MIX ASPHALT BINDER COURSE, IL-19.0, N70	TON	1068	1068	
40603340	HOT-MIX ASPHALT SURFACE COURSE, MIX "D", N70	TON	289	289	
44000100	PAVEMENT REMOVAL	SQ YD	1447	1447	
48101500	AGGREGATE SHOULDERS, TYPE B 6"	SQ YD	410	410	
50100100	REMOVAL OF EXISTING STRUCTURES	EACH	1		1
50105220	PIPE CULVERT REMOVAL	FOOT	74	74	
50200100	STRUCTURE EXCAVATION	CU YD	530		530
50800205	REINFORCEMENT BARS, EPOXY COATED	POUND	41620		41620
50800515	BAR SPLICERS	EACH	165		165
51500100	NAME PLATES	EACH	1		1
54003000	CONCRETE BOX CULVERTS	CU YD	233.6		233.6


SUMMARY OF QUANTITIES

CODE NO.	ITEM DESCRIPTION	UNIT	TOTAL QUANTITY	CONSTRUCTION TYPE CODE	
				ROADWAY	STRUCTURE
				0004	0011
54213660	PRECAST REINFORCED CONCRETE FLARED END SECTIONS 15"	EACH	6	6	
5421C012	PIPE CULVERTS, CLASS C, TYPE 1 12" (TEMPORARY)	FOOT	29	29	
5421C015	PIPE CULVERTS, CLASS C, TYPE 1 15" (TEMPORARY)	FOOT	44	44	
542A0220	PIPE CULVERTS, CLASS A, TYPE 1 15"	FOOT	273	273	
63000003	STEEL PLATE BEAM GUARDRAIL, TYPE A, 9 FOOT POSTS	FOOT	412.5	412.5	
63000025	STEEL PLATE BEAM GUARDRAIL, ATTACHED TO STRUCTURES	FOOT	62.5		62.5
63100167	TRAFFIC BARRIER TERMINAL, TYPE 1 (SPECIAL) TANGENT	EACH	4	4	
63200310	GUARDRAIL REMOVAL	FOOT	327	327	
67000400	ENGINEER'S FIELD OFFICE, TYPE A	CAL MO	10	10	
67100100	MOBILIZATION	L SUM	1	1	
70106800	CHANGEABLE MESSAGE SIGN	CAL MO	6	6	
70300520	PAVEMENT MARKING TAPE, TYPE III 4"	FOOT	11846	11846	
70301000	WORK ZONE PAVEMENT MARKING REMOVAL	SO FT	3949	3949	
70400100	TEMPORARY CONCRETE BARRIER	FOOT	625	625	
70400200	RELOCATE TEMPORARY CONCRETE BARRIER	FOOT	287.5	287.5	
70600260	IMPACT ATTENUATORS, TEMPORARY (FULLY REDIRECTIVE, NARROW), TEST LEVEL 3	EACH	4	4	
70600332	IMPACT ATTENUATORS, RELOCATE (FULLY REDIRECTIVE, NARROW), TEST LEVEL 3	EACH	2	2	
78000200	THERMOPLASTIC PAVEMENT MARKING - LINE 4"	FOOT	3785	3785	
78100100	RAISED REFLECTIVE PAVEMENT MARKER	EACH	30	30	
78100200	TEMPORARY RAISED REFLECTIVE PAVEMENT MARKER	EACH	149	149	
78200410	GUARDRAIL MARKERS, TYPE A	EACH	27	27	
78200530	BARRIER WALL MARKERS, TYPE C	EACH	72	72	
78201000	TERMINAL MARKER - DIRECT APPLIED	EACH	4	4	
78300100	PAVEMENT MARKING REMOVAL	SO FT	1553	1553	
78300200	RAISED REFLECTIVE PAVEMENT MARKER REMOVAL	EACH	178	178	
X4021000	TEMPORARY ACCESS (PRIVATE ENTRANCE)	EACH	3	3	
X4060110	BITUMINOUS MATERIALS (PRIME COAT)	POUND	7644	7644	
X7010216	TRAFFIC CONTROL AND PROTECTION, (SPECIAL)	L SUM	1	1	
Z0013798	CONSTRUCTION LAYOUT	L SUM	1	1	

\* SPECIALTY ITEM

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FILE NAME: P:\2011\ME11007\_VerVar\_PNT\CAD\DWG\006\_US14\SHS\016B25-shr-500.dwg  
 USER NAME: Millennium Professional Services



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DATE - 5/2/2014	REVISED -

STATE OF ILLINOIS  
 DEPARTMENT OF TRANSPORTATION

US ROUTE 14 OVER LAWRENCE CREEK TRIBUTARY  
 SUMMARY OF QUANTITIES

SCALE: SHEET NO. 1 OF 2 SHEETS | STA. TO STA.

F.A.P. RTE. 066	SECTION 21B-R	COUNTY MCHENRY	TOTAL SHEETS 40	SHEET NO. 3
CONTRACT NO. 60V25			FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT	

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**SUMMARY OF QUANTITIES**

**CONSTRUCTION TYPE CODE**


CODE NO.	ITEM DESCRIPTION	UNIT	TOTAL QUANTITY	CONSTRUCTION TYPE CODE	
				ROADWAY 0004	STRUCTURE 056-0086 0011
Z0026407	TEMPORARY SHEET PILING	SO FT	1281		1281
Z0030850	TEMPORARY INFORMATION SIGNING	SO FT	52	52	
Z0062000	SAW CUTTING	FOOT	1724	1724	
Z0062450	SAWING PAVEMENT (FULL DEPTH)	FOOT	751	751	
Z0064800	SELECTIVE CLEARING	UNIT	2.3	2.3	
Z0073500	TEMPORARY SUPPORT SYSTEM	L SUM	1		1
Ø Z0076600	TRAINEES	HOUR	500	500	
Ø Z0076604	TRAINEES-TRAINING PROGRAM GRADUATE	HOUR	500	500	
* 66900200	NON-SPECIAL WASTE DISPOSAL	CU YD	120	120	
* 66900450	SPECIAL WASTE PLANS AND REPORTS	L SUM	1	1	
* 66900530	SOIL DISPOSAL ANALYSIS	EACH	1	1	

• SPECIALTY ITEM

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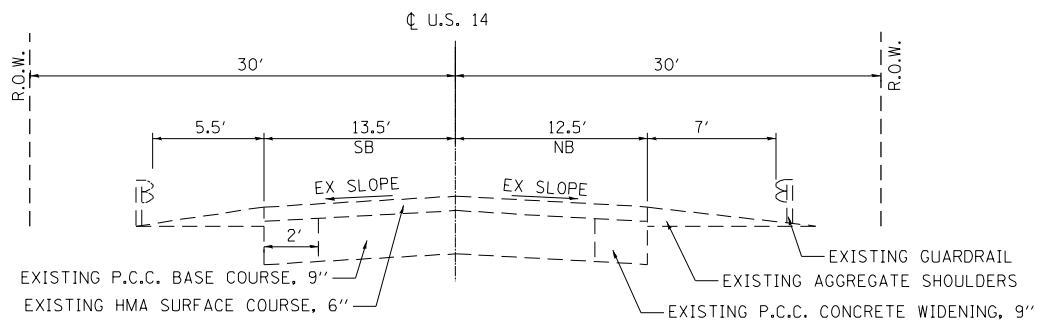
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 DEPARTMENT OF TRANSPORTATION**

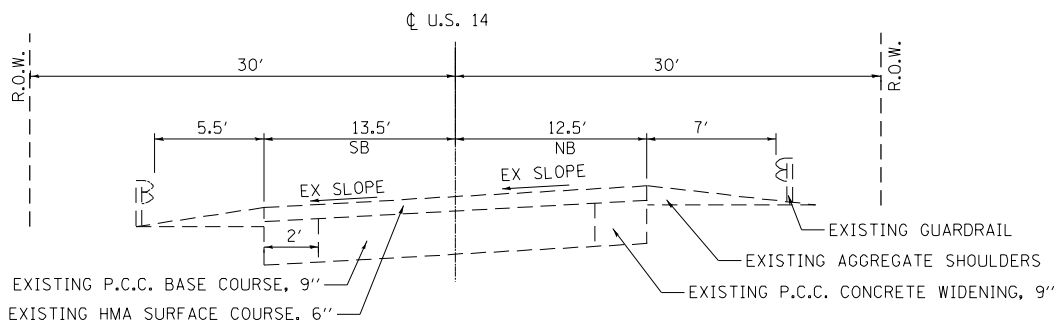
**US ROUTE 14 OVER LAWRENCE CREEK TRIBUTARY  
 SUMMARY OF QUANTITIES**

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
066	219-R	MCHENRY	40	4
CONTRACT NO.			60V25	

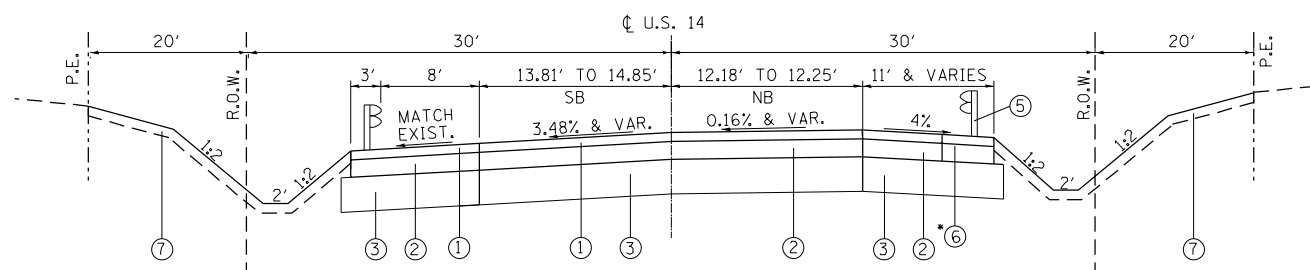
SCALE: SHEET NO. 2 OF 2 SHEETS STA. TO STA.



**EXISTING TYPICAL SECTION**  
STA. 94+90 TO STA. 99+45



**EXISTING TYPICAL SECTION**  
STA. 99+45 TO STA. 106+54  
(SUPER ELEVATION SECTION)



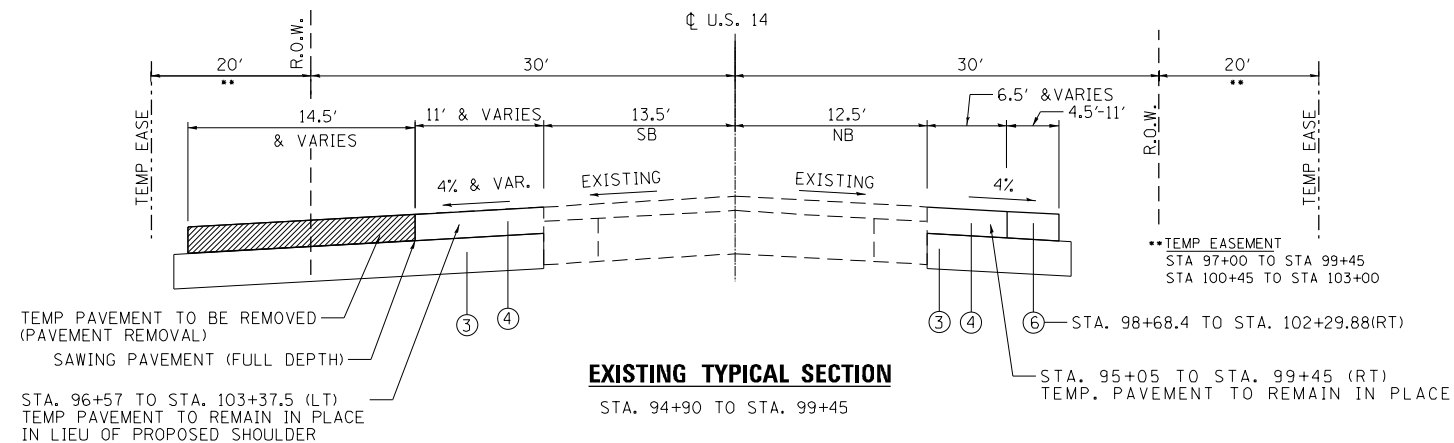
**PROPOSED TYPICAL SECTION**  
STA. 99+45 TO STA. 100+45

**LEGEND**

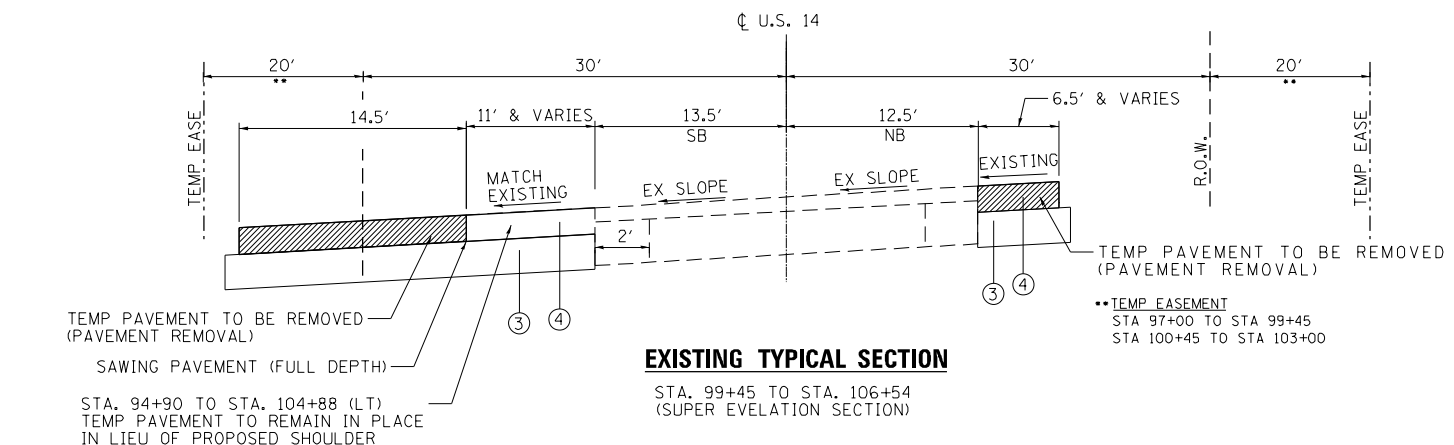
- ① PROPOSED HOT-MIX ASPHALT SURFACE COURSE, MIX "D", N70, 2"
- ② PROPOSED HOT-MIX ASPHALT BINDER COURSE, IL-19.0, N70, 7 3/4"
- ③ PROPOSED AGGREGATE SUBGRADE IMPROVEMENT, 12"
- ④ PROPOSED TEMPORARY PAVEMENT (HOT-MIX ASPHALT)
- ⑤ PROPOSED STEEL PLATE BEAM GUARDRAIL, TYPE A
- ⑥ PROPOSED HOT-MIX ASPHALT SHOULDERS, 9 3/4"
- ⑦ PROPOSED FURNISH AND PLACE TOPSOIL, 6"

\*SEE HMA MIXTURES REQUIREMENT TABLE, THIS SHT.

**FOR TYPICAL SECTION AT CULVERT  
SEE STRUCTURAL PLANS**



**EXISTING TYPICAL SECTION**  
STA. 94+90 TO STA. 99+45



**EXISTING TYPICAL SECTION**  
STA. 99+45 TO STA. 106+54  
(SUPER ELEVATION SECTION)

**HOT MIX ASPHALT MIXTURE REQUIREMENTS**

MIXTURE TYPE	AIR VOIDS at Ndes	QMP TYPE
<b>PAVEMENT /TEMPORARY PAVEMENT /SHOULDERS</b>		
HOT-MIX ASPHALT BINDER COURSE, IL-19.0, N70, 7 3/4"	4% @ 70 GYR.	QC/QA
HOT-MIX ASPHALT SURFACE COURSE, MIX "D", N70, 2" (IL 9.5 mm)	4% @ 70 GYR.	QC/QA
<b>RURAL FIELD ENTRANCE</b>		
HOT-MIX SURFACE COURSE, MIX D, N70 (IL 9.5mm); 2"	4% @ 70 GYR.	QC/QA
<b>QMP Designation: Quality Control/Quality Assurance (QC/QA)</b>		

**MIXTURE NOTES:**

1. THE UNIT WEIGHT USED TO CALCULATE ALL HOT-MIX ASPHALT SURFACE MIXTURES IS 112 LBS/SQ YD/IN  
 2. THE "AC TYPE" FOR POLYMERIZED HMA MIXES SHALL BE "SBS/SBR PG 76-22" AND FOR NON-POLYMERIZED HMA THE "AC TYPE" SHALL BE "PG 64-22" UNLESS MODIFIED BY DISTRICT ONE SPECIAL PROVISIONS. FOR USE OF RECYCLED MATERIALS SEE DISTRICT ONE SPECIAL PROVISIONS.

QUALITY MANAGEMENT PROGRAM (QMP) IDENTIFIES THE PARTICULAR QUALITY CONTROL SPECIFICATION THAT APPLIES TO THE HMA MIXTURE.

FILE NAME = P:\2011\ME11007\_Ver-Var-PhI\CADD\W006\_US14\_Shts\05-D160V25-sht-typical.dgn  
 PLOT SCALE = 1/8"=1'-0" / in.  
 USER NAME = Millennium Professional Services

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**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

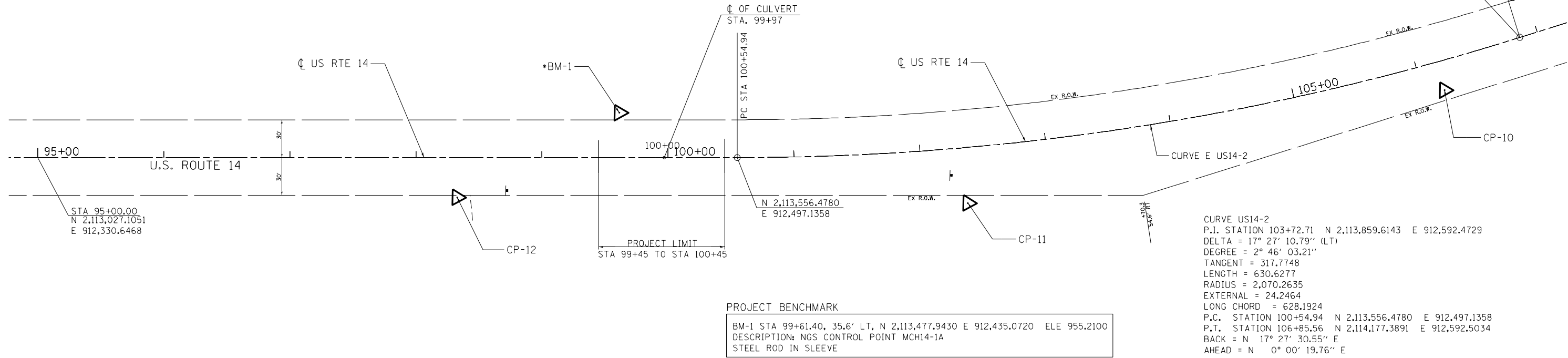
**US ROUTE 14 OVER LAWRENCE CREEK TRIBUTARY  
MAINLINE TYPICAL SECTIONS**

SCALE: N.T.S. SHEET NO. 1 OF 1 SHEETS STA. TO STA.

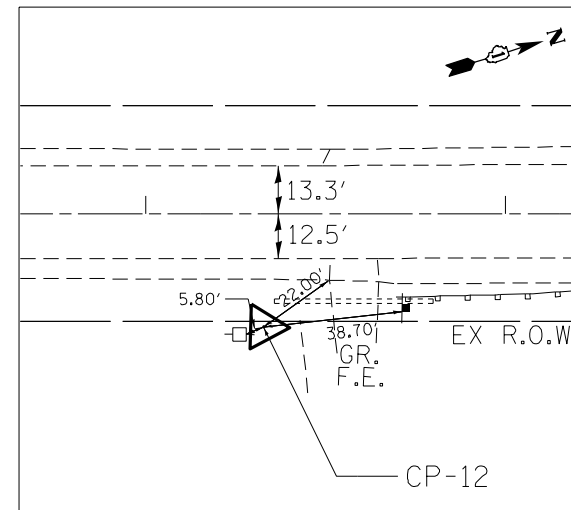
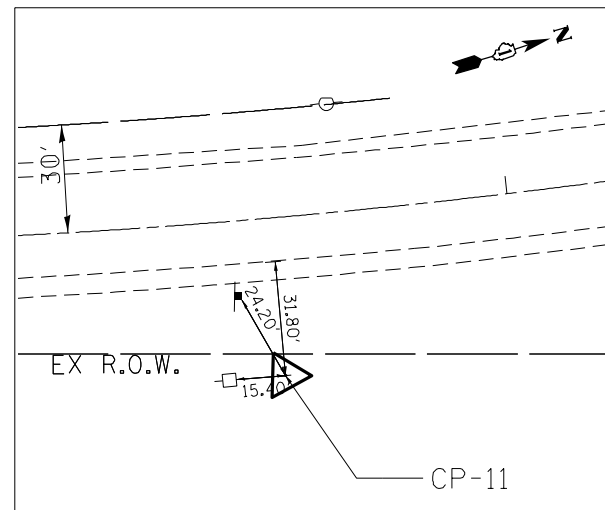
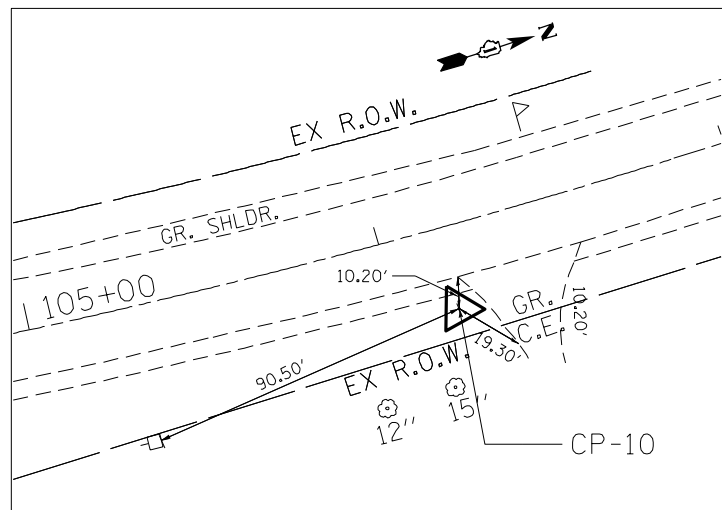
F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
066	21B-R	MCHENRY	40	5
CONTRACT NO. 60V25				
FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT				

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\*THE ENGINEER SHALL CONTACT IDOT'S SURVEYOR,  
RICHARD KANTHAPHIXAY AT 847-705-4340 TO ARRANGE TO  
HAVE THIS SURVEY MONUMENT RELOCATED PRIOR TO COMMENCEMENT  
OF CONSTRUCTION.



POINT	NORTHING	EASTING	STATION	ELEVATION	OFFSET	DESCRIPTION
CP-10	2,114,107.872	912,614.451	200+22.58	968.193	29.25 RT	REBAR, 360' NORTH OF CP 11, EAST SIDE OF US 14
CP-11	2,113,720.227	912,586.416	109+71.48	957.275	29.63 RT	REBAR, ABOUT 300' NORTH OF CREEK, EAST SIDE OF US 14
CP-12	2,113,335.068	912,460.516	113+13.47	955.039	44.34 LT	REBAR, ABOUT 100' SOUTH OF CREEK, ABOUT 12' EAST OF US 14 EOP



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PLOT SCALE = 80,0000 / 1"  
USER NAME = Millennia Professional Services

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630.785.0110 voice, 630.839.2566 fax  
www.mps-ill.com

**MILLENNIA PROFESSIONAL SERVICES**

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DRAWN - MG/JP	REVISED -
CHECKED - TVN	REVISED -
DATE - 3/14/2014	REVISED -

**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

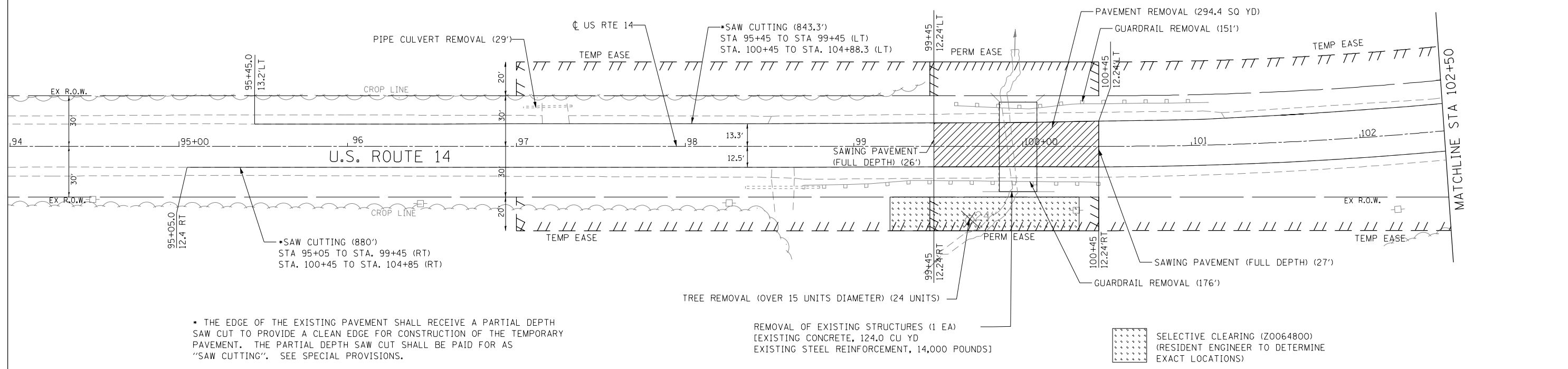
**US ROUTE 14 OVER LAWRENCE CREEK TRIBUTARY  
ALIGNMENTS, TIES AND BENCHMARKS**

SCALE: 1"=40' SHEET NO. 1 OF 1 SHEETS STA. TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
066	21B-R	MCHENRY	40	6
CONTRACT NO. 60V25				

FED. ROAD DIST. NO. 1 | ILLINOIS FED. AID PROJECT

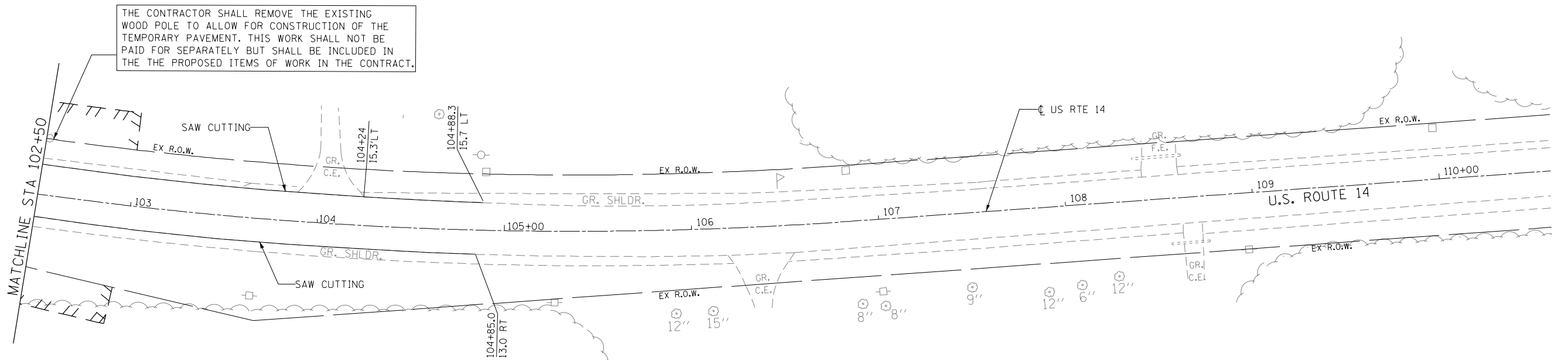
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THE EDGE OF THE EXISTING PAVEMENT SHALL RECEIVE A PARTIAL DEPTH SAW CUT TO PROVIDE A CLEAN EDGE FOR CONSTRUCTION OF THE TEMPORARY PAVEMENT. THE PARTIAL DEPTH SAW CUT SHALL BE PAID FOR AS "SAW CUTTING". SEE SPECIAL PROVISIONS.

REMOVAL OF EXISTING STRUCTURES (1 EA)  
 [EXISTING CONCRETE, 124.0 CU YD  
 EXISTING STEEL REINFORCEMENT, 14,000 POUNDS]

SELECTIVE CLEARING (Z0064800)  
 (RESIDENT ENGINEER TO DETERMINE  
 EXACT LOCATIONS)



THE CONTRACTOR SHALL REMOVE THE EXISTING WOOD POLE TO ALLOW FOR CONSTRUCTION OF THE TEMPORARY PAVEMENT. THIS WORK SHALL NOT BE PAID FOR SEPARATELY BUT SHALL BE INCLUDED IN THE THE PROPOSED ITEMS OF WORK IN THE CONTRACT.

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 PLOT SCALE = 60.0000' / 1" /  
 USER NAME = Millennium Professional Services



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DATE - 3/14/2014	REVISED -

**STATE OF ILLINOIS**  
**DEPARTMENT OF TRANSPORTATION**

**US ROUTE 14 OVER LAWRENCE CREEK TRIBUTARY**  
**REMOVAL PLAN**

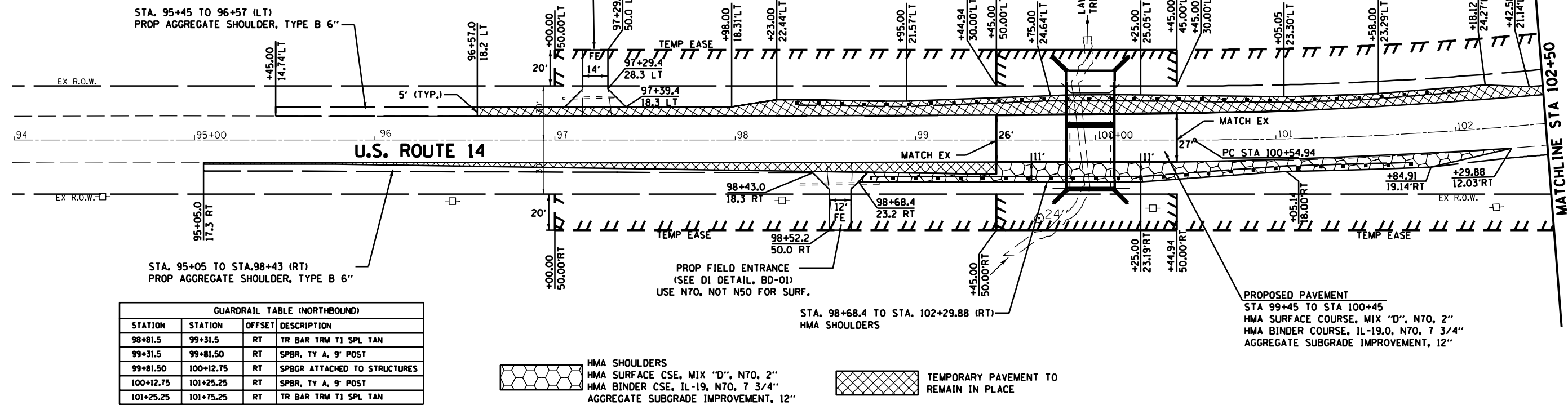
SCALE: 1"=30'      SHEET NO. 1 OF 1 SHEETS      STA. 94+00 TO STA. 110+00

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066	21B-R	MCHENRY	40	7
CONTRACT NO. 60V25				

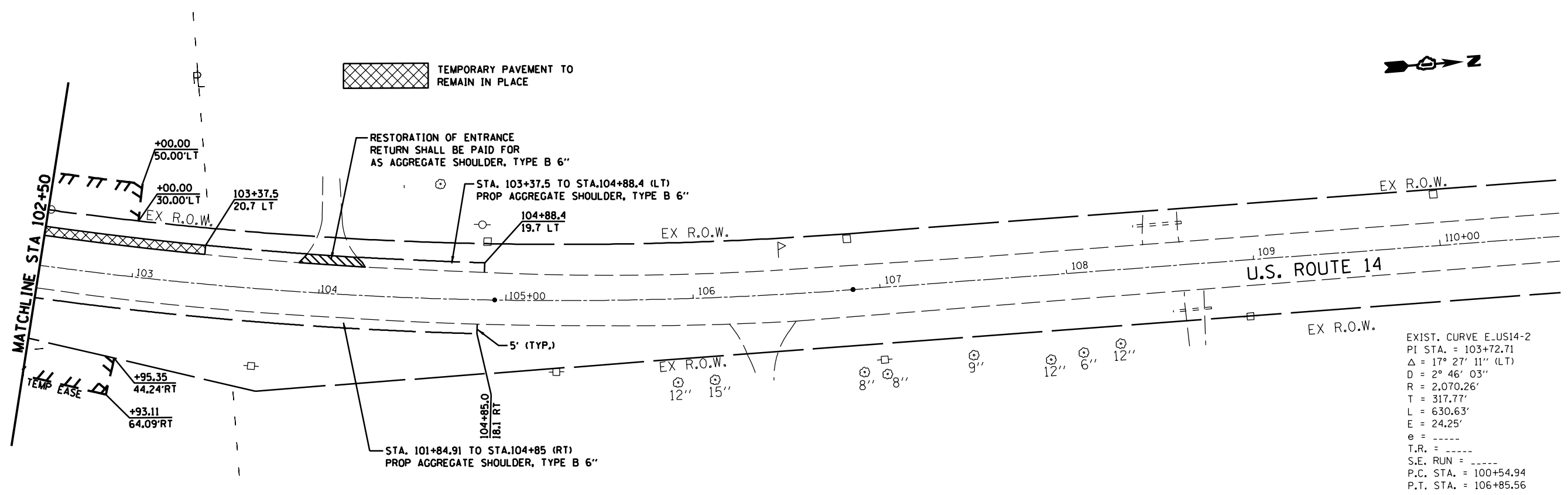
FED. ROAD DIST. NO. 1 | ILLINOIS FED. AID PROJECT

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GUARDRAIL TABLE (SOUTHBOUND)			
STATION	STATION	OFFSET	DESCRIPTION
98+31.50	98+81.50	LT	TR BAR TRM TI SPL TAN
98+81.50	99+81.50	LT	SPBR, TY A, 9' POST
99+81.50	100+12.75	LT	SPBGR ATTACHED TO STRUCTURES
100+12.75	101+62.75	LT	SPBR, TY A, 9' POST
101+62.75	102+12.75	LT	TR BAR TRM TI SPL TAN



GUARDRAIL TABLE (NORTHBOUND)			
STATION	STATION	OFFSET	DESCRIPTION
98+81.5	99+31.5	RT	TR BAR TRM TI SPL TAN
99+31.5	99+81.50	RT	SPBR, TY A, 9' POST
99+81.50	100+12.75	RT	SPBGR ATTACHED TO STRUCTURES
100+12.75	101+25.25	RT	SPBR, TY A, 9' POST
101+25.25	101+75.25	RT	TR BAR TRM TI SPL TAN



FILE NAME = \$FILE\$  
 PLOT SCALE = \$SCALE\$  
 USER NAME = \$USER\$

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DATE - *DATE*	REVISED -

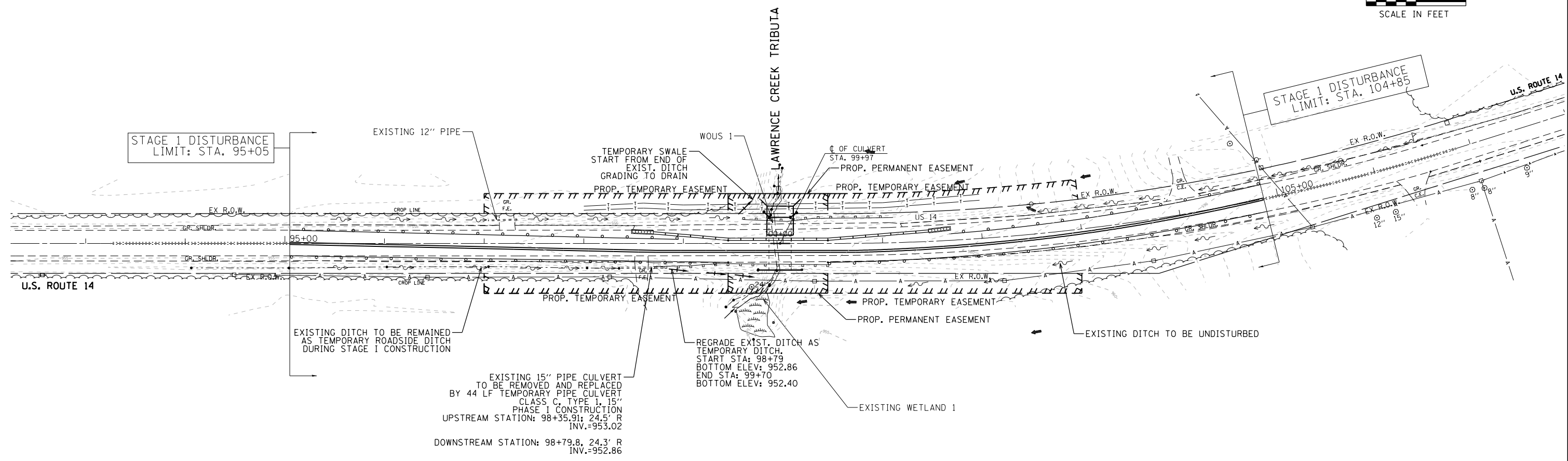
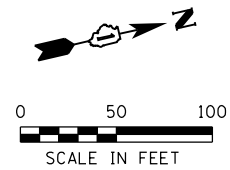
**STATE OF ILLINOIS  
 DEPARTMENT OF TRANSPORTATION**

**US ROUTE 14 OVER LAWRENCE CREEK TRIBUTARY  
 PROPOSED ROADWAY PLAN**

SCALE: 1"=30'    SHEET NO. 1 OF 1 SHEETS    STA. 94+00 TO STA. 110+00

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
066	21B-R	MCHENRY	40	8
FED. ROAD DIST. NO. 1   ILLINOIS FED. AID PROJECT			CONTRACT NO. 60V25	





**LEGEND**

EXISTING		PROPOSED
	STORM CULVERT	
	R.O.W.	
	SURFACE FLOW	
	DITCH FLOW	
	WETLAND	
	ELECTRICAL OVERHEAD LINE	
	ELECTRICAL POLE	
	AT&T BURRIED CABLE	
	CONTOURS	

**NOTE:**

1. THE TEMPORARY DITCH SHALL HAVE MINIMUM SIDE SLOPE 2:1 BOTTOM WIDTH OF 2 FEET AND MINIMUM 0.3% SLOPE. THE BOTTOM ELEVATION SHALL SUFFICIENT TO REROUTE EXISTING DITCH FLOW.
2. DE-ENERGIZING COMED'S DISTRIBUTION LINES(=34,000 VOLTS) OR TRANSMISSION LINES(>34,000 VOLTS) MAY BE NECESSARY IN ORDER TO ACCOMODATE CONTRACTOR'S EQUIPMENT. COSTS MAY BEINVOLVED. CALL 1(800) EDISONI.
3. THE STATION AND OFFSET ARE MEASURED FROM THE END OF PIPE.

FILE NAME = \$FILES\$ / \$PROJECT\$ / \$SHEET\$.DWG  
 USER NAME = \$USER\$

**AEG** Ltd.  
 3100 Dundee Road, Suite 502, Northbrook, IL 60062  
 847.753.8020 office 847.753.8023 fax

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DRAWN - JX	REVISED -
CHECKED - CW	REVISED -
DATE - 3/11/2014	REVISED -

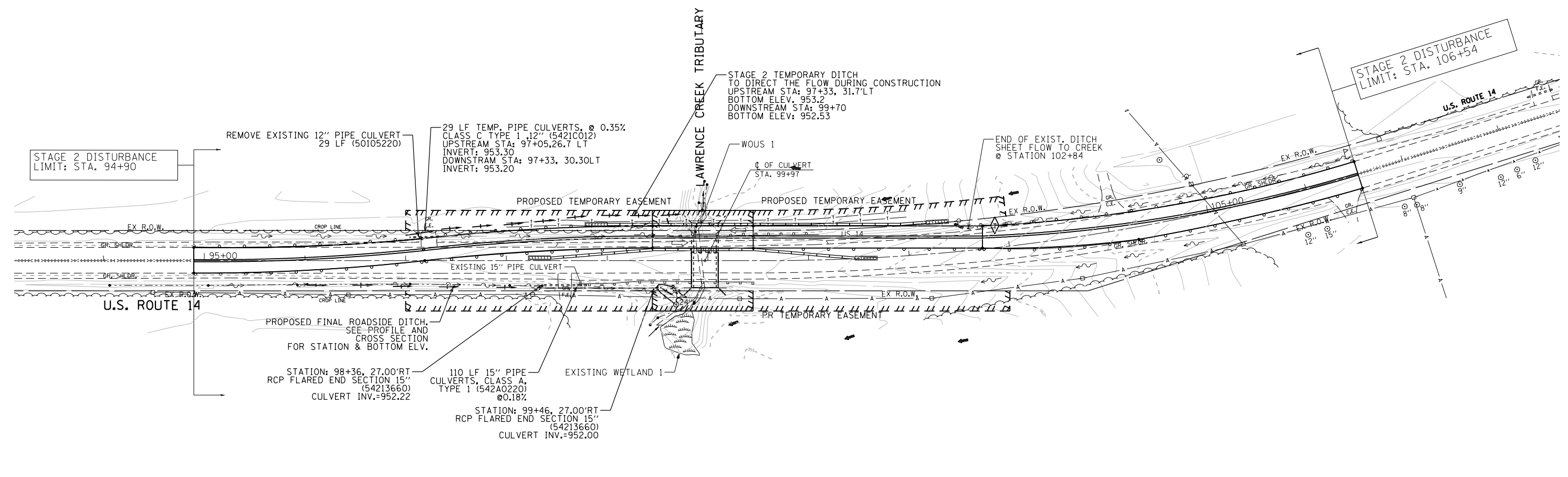
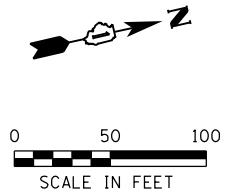
**STATE OF ILLINOIS  
 DEPARTMENT OF TRANSPORTATION**

**US 14  
 OVER LAWRENCE CREEK TRIBUTARY**

**DRAINAGE AND UTILITY  
 PLAN-STAGE 1**

F.A.P. RTE. 066	SECTION 21B-R	COUNTY MCHENRY	TOTAL SHEETS 40	SHEET NO. 9
CONTRACT NO. 60V25				
ILLINOIS FED. AID PROJECT				

SCALE: 1"=50' SHEET OF SHEETS STA. TO STA.



**LEGEND**

EXISTING		PROPOSED
-----	STORM CULVERT	-----
-----	R.O.W.	-----
←	SURFACE FLOW	→
~	DITCH FLOW	~
[Wetland symbol]	WETLAND	
—A—	ELECTRICAL OVERHEAD LINE	
□	ELECTRICAL POLE	
◀	RCP FLARED END SECTION	
—T—	AT&T BURRIED CABLE	
-965-	CONTOURS	

- NOTE:**
1. THE TEMPORARY DITCH SHALL HAVE MINIMUM SIDE SLOPE 2:1 BOTTOM WIDTH OF 2 FEET AND MINIMUM 0.3% SLOPE. THE BOTTOM ELEVATION SHALL BE SUFFICIENT TO REROUTE EXISTING DITCH FLOW.
  2. DE-ENERGIZING COMED'S DISTRIBUTION LINES(=34,000 VOLTS) OR TRANSMISSION LINES (>34,000 VOLTS) MAY BE NECESSARY IN ORDER TO ACCOMODATE CONTRACTOR'S EQUIPMENT. COSTS MAY BEINVOLVED. CALL 1(800) EDISON1.
  3. THE STATION AND OFFSET ARE MEASURED FROM THE END OF PIPE.

FILE NAME = #FILES  
 PLOT SCALE = 1/8"=1'-0"  
 USER NAME =

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 847.753.8020 office 847.753.8023 fax

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DATE - 3/11/2014	REVISED -

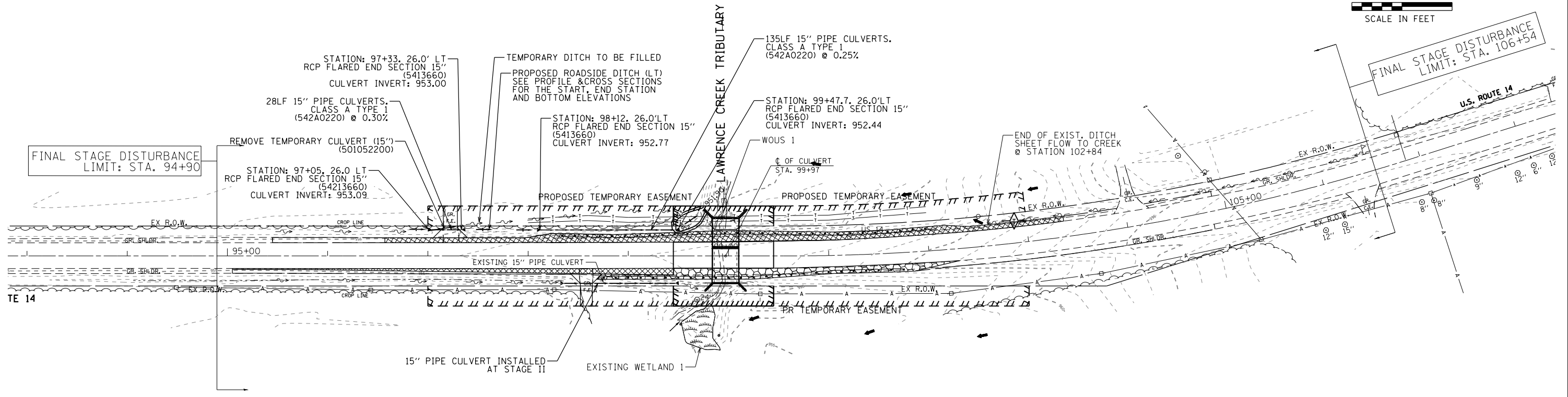
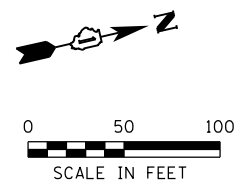
**STATE OF ILLINOIS**  
**DEPARTMENT OF TRANSPORTATION**

**US 14**  
**OVER LAWRENCE CREEK TRIBUTARY**

**DRAINAGE AND UTILITY**  
**PLAN-STAGE 2**

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
066	21B-R	MCHENRY	40	10
CONTRACT NO. 60V25				
ILLINOIS FED. AID PROJECT				

SCALE: 1"=50' SHEET OF SHEETS STA. TO STA.



LEGEND

EXISTING		PROPOSED
-----	STORM CULVERT	-----
-----	R.O.W.	-----
←	SURFACE FLOW	→
~>	DITCH FLOW	→
⊕	TEMPORARY DITCH CHECK	⊕
[Wetland symbol]	WETLAND	
—A—	ELECTRICAL OVERHEAD LINE	
⊕	ELECTRICAL POLE	
▶	RCP FLARED END SECTION	
—T—T—	AT&T BURRIED CABLE	
-965-	CONTOURS	

- NOTE:
1. THE TEMPORARY DITCH SHALL HAVE A MINIMUM SIDE SLOPE OF 2:1, BOTTOM WIDTH OF 2 FEET AND MINIMUM A 0.3% SLOPE. THE BOTTOM ELEVATION SHALL BE SUFFICIENT TO REROUTE EXISTING DITCH FLOW.
  2. DE-ENERGIZING COMED'S DISTRIBUTION LINES(=34,000 VOLTS) OR TRANSMISSION LINES (>34,000 VOLTS) MAY BE NECESSARY IN ORDER TO ACCOMODATE CONTRACTOR'S EQUIPMENT. COSTS MAY BE INVOLVED. CALL 1(800) EDISON1.
  3. THE STATION AND OFFSET IS MEASURED FROM THE PIPE END.

FILE NAME : #FILE#  
 USER : USER#  
 USER NAME : #USER#



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 847.753.8020 office 847.753.8023 fax

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DATE - 3/11/2014	REVISED -

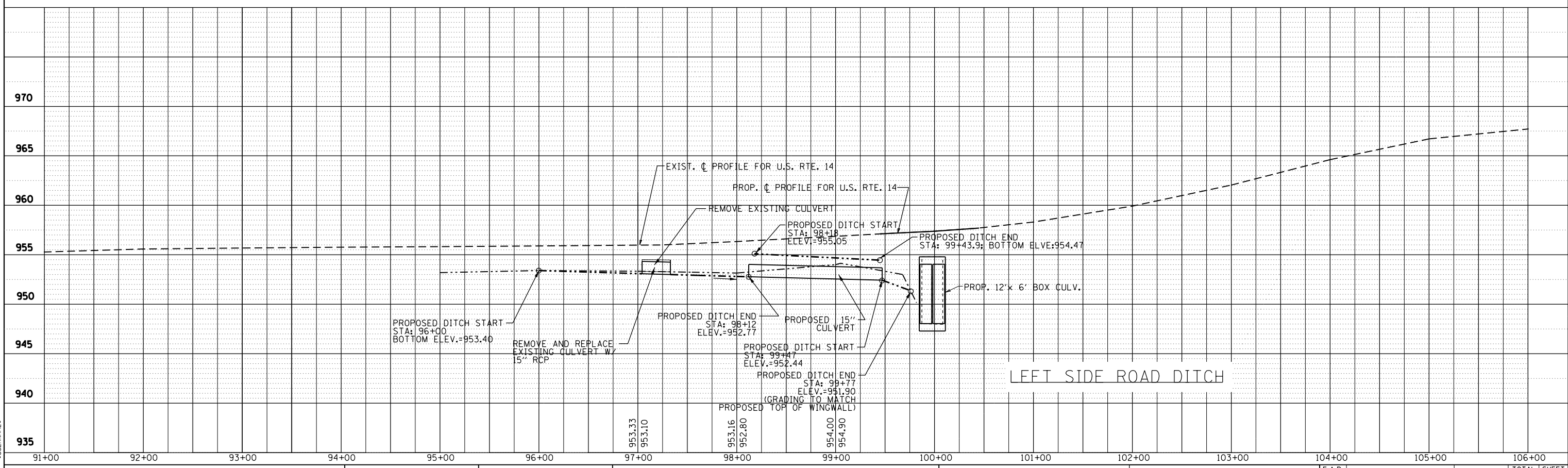
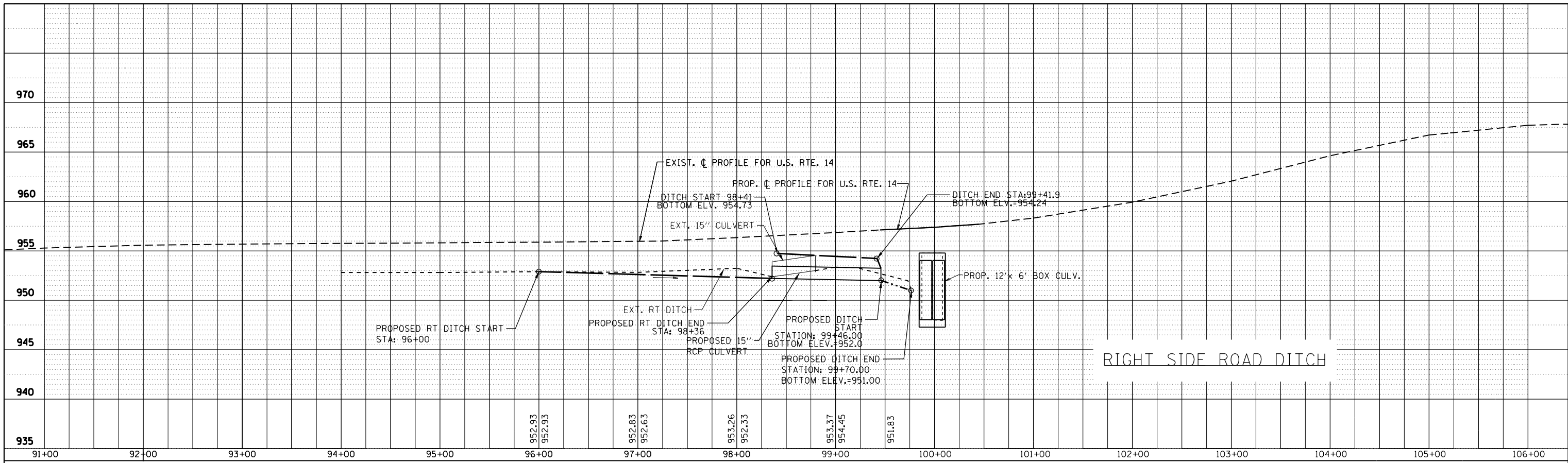
STATE OF ILLINOIS  
 DEPARTMENT OF TRANSPORTATION

US 14  
 OVER LAWRENCE CREEK TRIBUTARY

DRAINAGE AND UTILITY  
 PLAN-FINAL STAGE

F.A.P. RTE. 066	SECTION 21B-R	COUNTY MCHENRY	TOTAL SHEETS 40	SHEET NO. 11
CONTRACT NO. 60V25				
ILLINOIS FED. AID PROJECT				

SCALE: 1"=50' SHEET OF SHEETS STA. TO STA.



FILE NAME = #FILE\*  
 PLOT SCALE = 1/8"=1'-0"  
 USER NAME = #USERNAME\*

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 Ltd.

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**STATE OF ILLINOIS**  
**DEPARTMENT OF TRANSPORTATION**

**US 14**  
**OVER LAWRENCE CREEK TRIBUTARY**

**DRAINAGE PROFILE**

SCALE: 1"=50' SHEET OF SHEETS STA. TO STA.

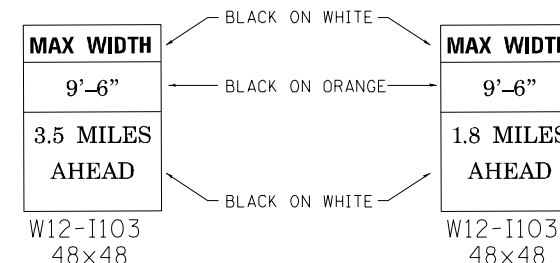
F.A.P. RTE. 066	SECTION 21B-R	COUNTY MCHENRY	TOTAL SHEETS 40	SHEET NO. 12
CONTRACT NO. 60V25				
ILLINOIS FED. AID PROJECT				

## MAINTENANCE OF TRAFFIC GENERAL NOTES

- ALL OF THE TRAFFIC CONTROL DEVICES SHALL BE IN PLACE BEFORE CONSTRUCTION IS STARTED. THE TRAFFIC CONTROL PLANS SHALL SERVE AS A GUIDE FOR THE SAFE DIVERSION OF TRAFFIC DURING EXECUTION OF THIS CONTRACT.
- A MINIMUM OF TWO LANES, ONE IN EACH DIRECTION, SHALL BE KEPT OPEN TO THROUGH TRAFFIC AT ALL TIMES EXCEPT AS NOTED IN PLANS. ANY LANE CLOSURES MUST BE APPROVED BY THE ENGINEER. THE MINIMUM LANE WIDTHS SHALL BE 11'-0".
- TAPER LENGTH FOR TRAFFIC CONTROL DEVICES IS DEFINED BY:  
 $L = (W) \times (S)$   
 WHERE EQUATION IS FOR SPEED LIMIT OF 45 MPH OR LESS. THE TAPER IS DEFINED AS FOLLOWS:  
 $L =$  TAPER LENGTH IN FEET  
 $W =$  WIDTH OF OFFSET IN FEET  
 $S =$  POSTED SPEED IN MPH.
- THE FOLLOWING TEMPORARY PAVEMENT MARKINGS SHALL BE PROVIDED IN ACCORDANCE WITH SECTION 703 "WORK ZONE PAVEMENT MARKINGS" OF STANDARD SPECIFICATIONS AT ALL THE FOLLOWING LOCATIONS IN EACH OF THE VARIOUS STAGES OF CONSTRUCTION:  
 4 IN WHITE EDGE LINE  
 4 IN DOUBLE YELLOW - BETWEEN OPPOSING LANES
- TEMPORARY RAISED REFLECTIVE PAVEMENT MARKERS SHALL BE PLACED THROUGHOUT THE PROJECT IN ACCORDANCE WITH THE DISTRICT ONE C.A.D.D. DETAIL FOR "RAISED REFLECTIVE PAVEMENT MARKERS" OR AS DIRECTED BY THE ENGINEER.

- TEMPORARY PAVEMENT IS REQUIRED TO MAINTAIN THE REQUIRED TRAFFIC LANES ON US ROUTE 14 AS SHOWN ON THE STAGING PLANS. SEE THE HMA MIXTURES REQUIREMENT TABLE ON SHEET 5 AND THE SPECIAL PROVISIONS FOR THE HMA MATERIALS.
- THE EDGE OF THE EXISTING PAVEMENT SHALL RECEIVE A PARTIAL DEPTH SAW CUT TO PROVIDE A CLEAN EDGE FOR CONSTRUCTION OF THE TEMPORARY PAVEMENT. THE PARTIAL DEPTH SAW CUT SHALL BE PAID FOR AS "SAW CUTTING". SEE SPECIAL PROVISIONS.
- THE REMOVAL OF TEMPORARY PAVEMENT SHALL BE PAID FOR AS "PAVEMENT REMOVAL". A FULL DEPTH PAVEMENT SAW CUT SHALL BE REQUIRED TO SEPARATE THE TEMPORARY PAVEMENT FROM TEMPORARY PAVEMENT THAT SHALL REMAIN IN PLACE. THE SAW CUT SHALL BE PAID FOR AS "SAWING PAVEMENT (FULL DEPTH)". SEE SPECIAL PROVISIONS.
- PORTABLE CHANGEABLE MESSAGE SIGNS SHALL BE PLACED PRIOR TO THE PROJECT AT THE NORTH AND SOUTH ENDS ALONG US ROUTE 14 AS DIRECTED BY THE ENGINEER. THESE SHALL BE PAID FOR AS "CHANGEABLE MESSAGE SIGN" (CAL. MONTH).
- THE CONTRACTOR WILL GIVE AT LEAST 48 HOURS PRIOR NOTICE TO THE RESIDENT ENGINEER PRIOR TO IMPLEMENTING LANE CLOSURES.
- THE NECESSARY TYPE III BARRICADES WILL BE PROVIDED AT THE LOCATIONS SHOWN IN THE PLANS. A MONO-DIRECTIONAL FLASHING AMBER BEACON SHALL BE MOUNTED TO THE FIRST TWO WARNING SIGNS ON EACH APPROACH DURING HOURS OF DARKNESS.
- POSITIVE DRAINAGE WITHIN THE WORK ZONE MUST BE MAINTAINED AT ALL TIMES. WHEN EXISTING DRAINAGE FACILITIES ARE DISTURBED THE CONTRACTOR SHALL PROVIDE AND MAINTAIN TEMPORARY INLETS, OUTLETS, AND CONNECTIONS FOR ALL EXISTING AND PROPOSED FACILITIES INCLUDING TEMPORARY PUMPING IF NECESSARY. TEMPORARY ACCOMMODATIONS SHALL BE MAINTAINED UNTIL SUCH TIME AS THE PERMANENT FACILITIES ARE IN SERVICE. THE COST OF ALL LABOR, EQUIPMENT, AND MATERIALS (TEMPORARY OR PERMANENT USED AS TEMPORARY) TO COMPLY WITH THIS REQUIREMENT WILL NOT BE PAID FOR DIRECTLY, BUT THE COST SHALL BE CONSIDERED INCLUDED IN THE PROPOSED ITEMS OF WORK IN THE CONTRACT.

- ALL TEMPORARY CONCRETE BARRIER WALL AND TEMPORARY IMPACT ATTENUATORS MUST BE SEATED ON BARE, CLEAN PAVEMENT OR PAVED SHOULDER.
- ADVANCE WIDTH RESTRICTION SIGNS, W12-1103, SHALL BE INSTALLED. ONE SIGN SHALL BE INSTALLED APPROXIMATELY 3.5 MILES SOUTH OF THE PROJECT AT THE INTERSECTION OF US ROUTE 14 AND IL ROUTE 173. ONE SIGN SHALL BE INSTALLED NORTH OF THE PROJECT AT THE INTERSECTION OF US ROUTE 14 AND STATE LINE ROAD.



### SUGGESTED CONSTRUCTION STAGING

**PRE-STAGE I**  
 INSTALL SIGNING THAT WILL BE USED DURING STAGED CONSTRUCTION. COVER SIGNS THAT ARE NOT APPLICABLE TO THE PRE-STAGE CONDITION. INSTALL TEMPORARY EROSION CONTROL. CONSTRUCT TEMPORARY PAVEMENT AND DITCHING ADJACENT TO N.B. TRAVEL LANE. REMOVE EXISTING RAISED REFLECTIVE PAVEMENT MARKERS THAT CONFLICT WITH STAGE CONSTRUCTION. UTILIZE STATE STANDARDS 701006, 701011, 701301, 701326 AND 701901 FOR TRAFFIC CONTROL AND PROTECTION.

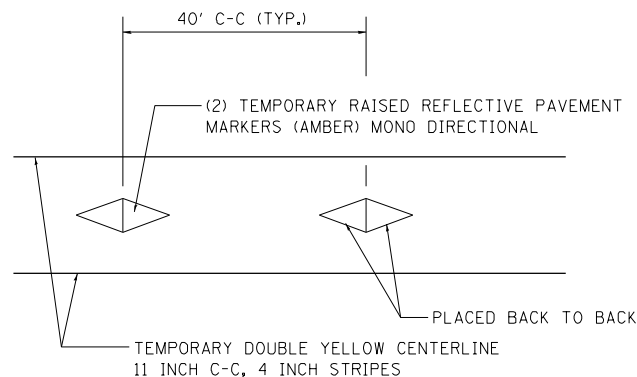
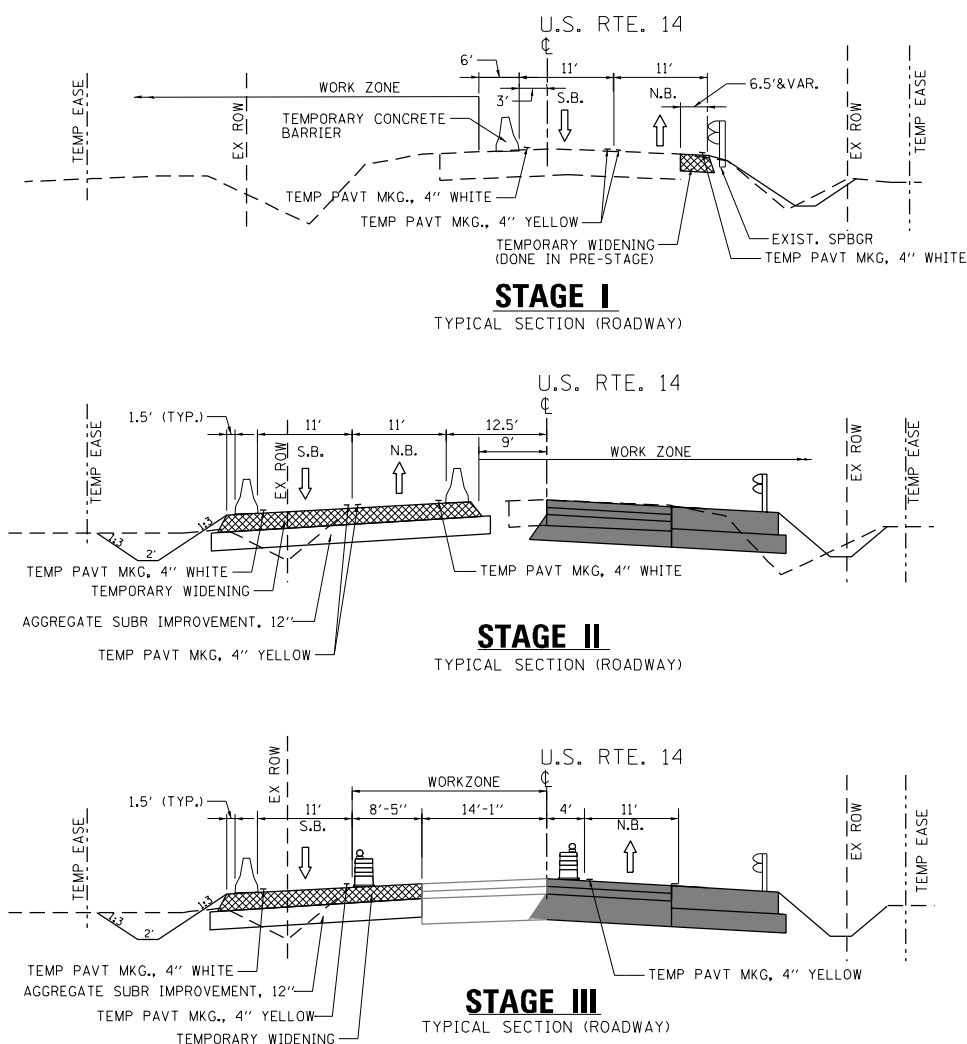
**STAGE I**  
 ESTABLISH TRAFFIC CONTROL AND PROTECTION IN ACCORDANCE WITH THE SUGGESTED STAGES CONSTRUCTION & TRAFFIC CONTROL PLAN. REMOVE PORTION OF EXISTING BOX CULVERT (SEE STRUCTURAL PLANS). CONSTRUCT PORTION OF NEW BOX CULVERT (SEE STRUCTURAL PLANS). INSTALL TEMPORARY EROSION CONTROL TO BE USED IN STAGE II. CONSTRUCT TEMPORARY PAVEMENT AND TEMPORARY DITCHING TO BE USED IN STAGE II.

**STAGE II**  
 ESTABLISH TRAFFIC CONTROL AND PROTECTION IN ACCORDANCE WITH THE SUGGESTED STAGES CONSTRUCTION & TRAFFIC CONTROL PLAN. REMOVE THE EAST PORTION OF THE OLD BOX CULVERT (SEE STRUCTURAL PLANS). CONSTRUCT EAST PORTION OF BOX CULVERT (SEE STRUCTURAL PLANS). CONSTRUCT N.B. PAVEMENT. PAVEMENT SHALL BE CONSTRUCTED UP TO HMA SURFACE COURSE. THE AREA IMMEDIATELY WEST OF AND ADJACENT TO THE N.B. LANE SHALL BE BACKFILLED SO THE DROP OFF DOES NOT EXCEED 12 INCHES. CONSTRUCT HMA SHOULDERS (INCLUDING HMA SURFACE COURSE AND INSTALL GUARDRAIL ADJACENT TO N.B. LANE. INSTALL PIPE CULVERT AND CONSTRUCT FIELD ENTRANCE AT STATION 98+52.20 (RT). RE-ESTABLISH FINAL DITCHING AND PLANT FINAL SEEDING ALONG EAST SIDE OF US ROUTE 14.

**STAGE III**  
 REMOVE THE TEMPORARY CONCRETE BARRIER THAT IS IMMEDIATELY ADJACENT TO THE STAGE II N.B. TRAVELED LANE. INSTALL DRUMS WITH STEADY BURNING LIGHTS (SEE STRUCTURAL PLANS). THE DRUM SPACING SHALL BE 100' C-C. THE SPACING OF THE DRUMS BETWEEN STA. 99+45 TO 100+45 SHALL BE AT 20' C-C. CONSTRUCT S.B. PAVEMENT UP TO HMA SURFACE COURSE.

**STAGE IV**  
 INSTALL FINAL PAVEMENT MARKINGS AND PLACE S.B. TRAFFIC ON NEWLY CONSTRUCTED S.B. PAVEMENT. INSTALL GUARDRAIL. AFTER GUARDRAIL INSTALLATION IS COMPLETE, REMOVE TEMPORARY CONCRETE BARRIER THAT WAS IMMEDIATELY ADJACENT TO THE STAGE III S.B. TRAVELED LANE. REMOVE PORTION OF TEMPORARY PAVEMENT. RE-ESTABLISH FINAL DITCHING AND PLANT FINAL SEEDING ALONG WEST SIDE OF US ROUTE 14. UTILIZE STATE STANDARDS 701006, 701011, 701301, 701326 AND 701901 FOR TRAFFIC CONTROL AND PROTECTION.

**POST STAGE**  
 INSTALL RAISED REFLECTIVE PAVEMENT MARKERS. REMOVE SIGNING USED DURING STAGED CONSTRUCTION. COMPLETE PUNCH LIST ITEMS.



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 PLOT SCALE = 2.0000 / 1" = 100'  
 USER NAME = Millennium Professional Services

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DATE - 3/14/2014	REVISED -

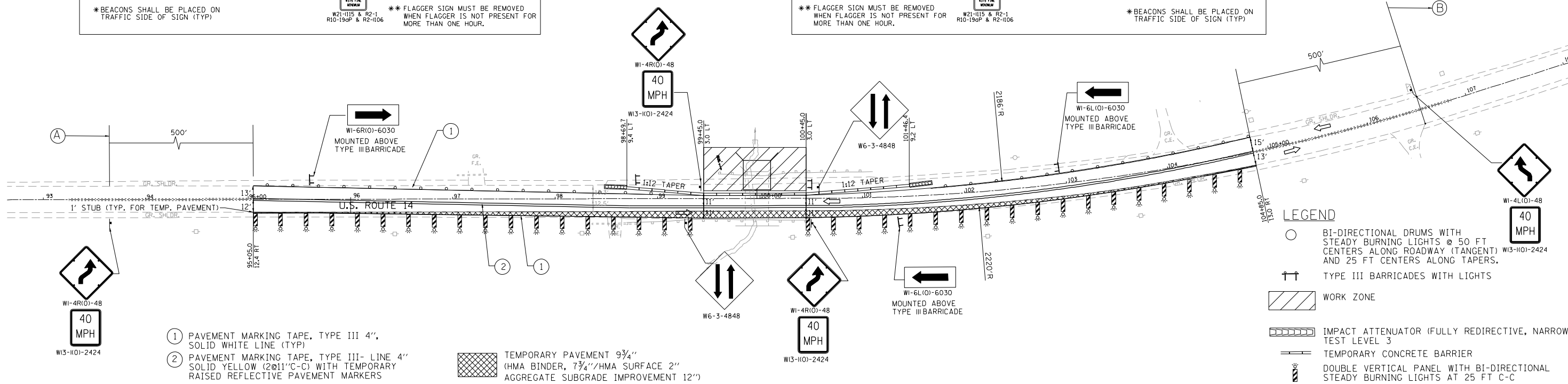
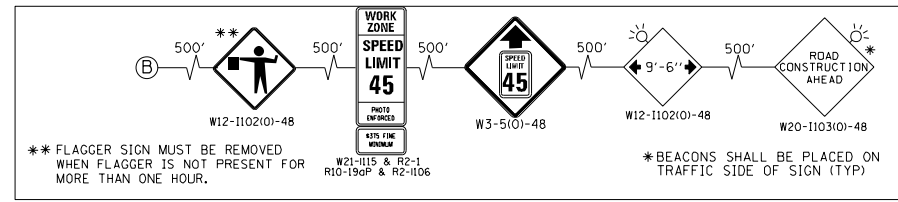
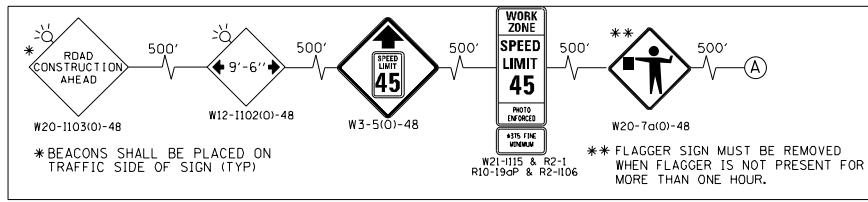
**STATE OF ILLINOIS**  
**DEPARTMENT OF TRANSPORTATION**

**US ROUTE 14 OVER LAWRENCE CREEK TRIBUTARY**  
**SUGGESTED CONSTRUCTION STAGING**  
**TRAFFIC CONTROL & GENERAL NOTES**

SCALE: N/A SHEET NO. 1 OF 3 SHEETS STA. TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
066	21B-R	MCHENRY	40	13
CONTRACT NO. 60V25			FED. ROAD DIST. NO. 1   ILLINOIS FED. AID PROJECT	

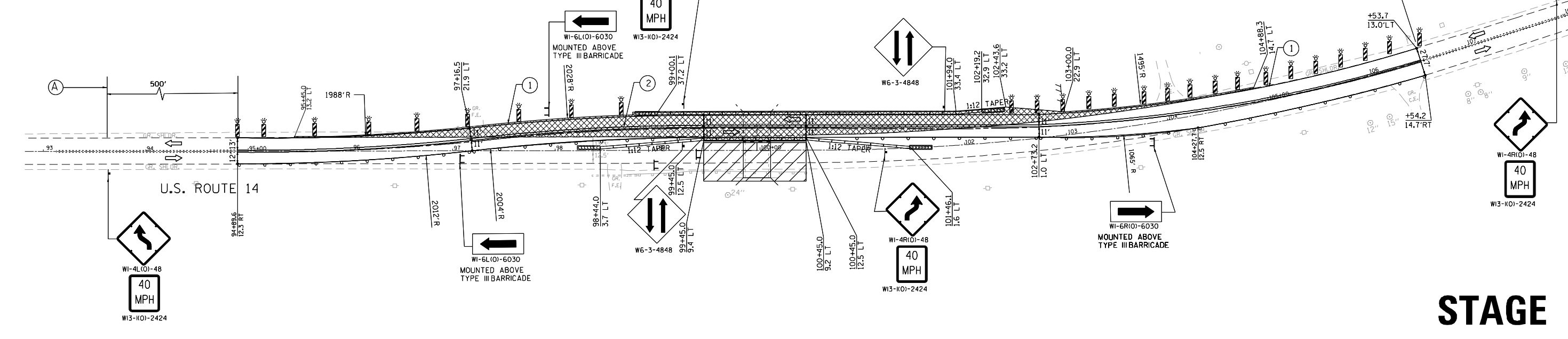
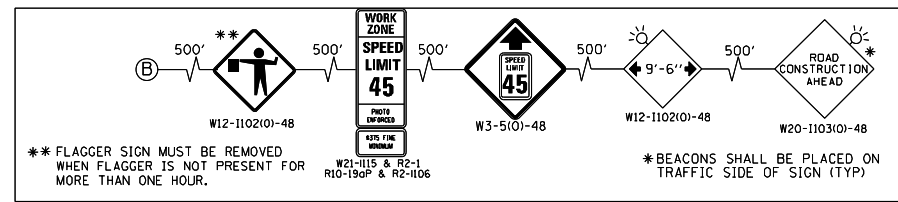
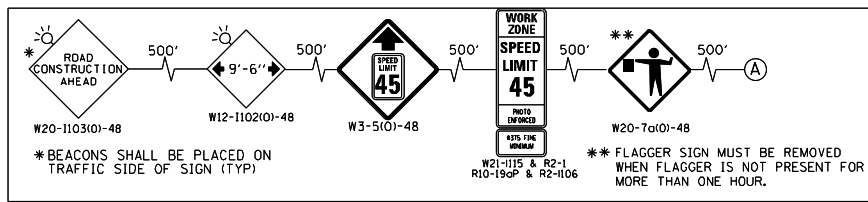
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**LEGEND**

- BI-DIRECTIONAL DRUMS WITH STEADY BURNING LIGHTS @ 50 FT CENTERS ALONG ROADWAY (TANGENT) W13-1(O)-2424 AND 25 FT CENTERS ALONG TAPERS.
- TYPE III BARRICADES WITH LIGHTS
- WORK ZONE
- IMPACT ATTENUATOR (FULLY REDIRECTIVE, NARROW), TEST LEVEL 3
- TEMPORARY CONCRETE BARRIER
- DOUBLE VERTICAL PANEL WITH BI-DIRECTIONAL STEADY BURNING LIGHTS AT 25 FT C-C

# STAGE I



# STAGE II

FILE NAME = P:\2011\ME11007\_Ver-Yer-PhI\CADD\W006-US14-Shts\14-D160V25-sht-STG1.dgn  
 PLOT SCALE = 1/80,000 / in.  
 USER NAME = Millennium Professional Services

2600 Warrenville Road, Suite 203, Downers Grove, IL 60515  
 630.785.0110 voice, 630.839.2566 fax  
 www.mps-ill.com  
**MILLENNIA PROFESSIONAL SERVICES**

DESIGNED - TVN/MG	REVISED -
DRAWN - MG/JP	REVISED -
CHECKED - TVN	REVISED -
DATE - 4/10/2014	REVISED -

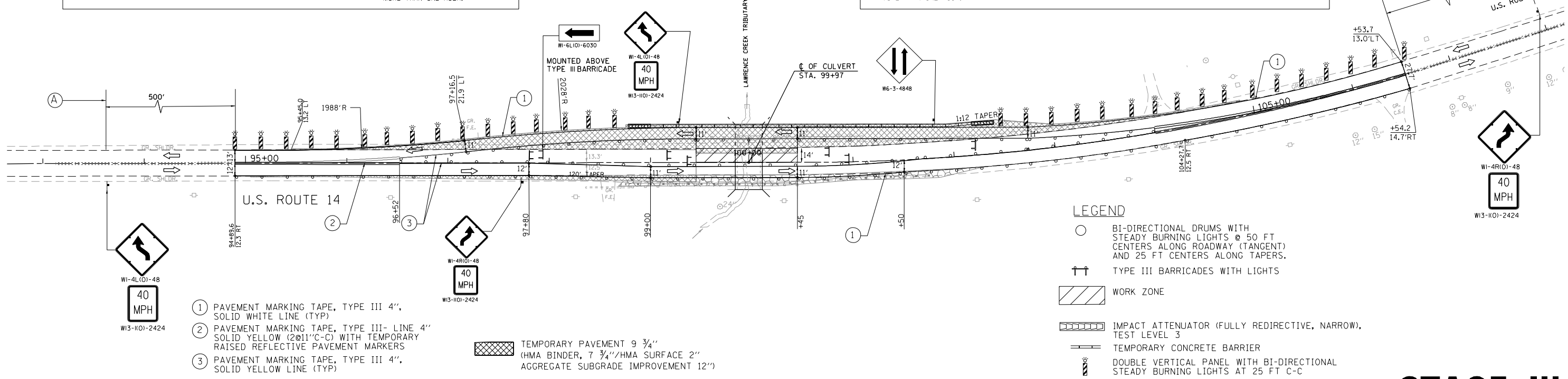
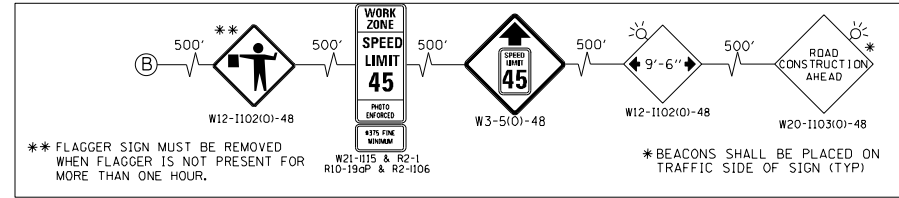
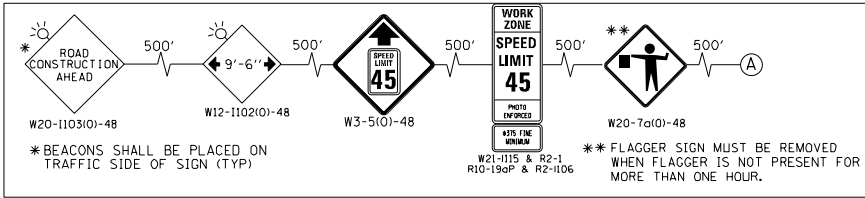
**STATE OF ILLINOIS  
 DEPARTMENT OF TRANSPORTATION**

**US ROUTE 14 OVER LAWRENCE CREEK TRIBUTARY  
 SUGGESTED STAGES CONSTRUCTION & TRAFFIC CONTROL PLAN**

SCALE: 1"=50'    SHEET NO. 2 OF 3 SHEETS    STA.    TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
066	21B-R	MCHENRY	40	14
CONTRACT NO.			60V25	
FED. ROAD DIST. NO. 1   ILLINOIS FED. AID PROJECT				

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- ① PAVEMENT MARKING TAPE, TYPE III 4", SOLID WHITE LINE (TYP)
  - ② PAVEMENT MARKING TAPE, TYPE III- LINE 4" SOLID YELLOW (2@11"C-C) WITH TEMPORARY RAISED REFLECTIVE PAVEMENT MARKERS
  - ③ PAVEMENT MARKING TAPE, TYPE III 4", SOLID YELLOW LINE (TYP)
- TEMPORARY PAVEMENT 9 3/4" (HMA BINDER, 7 3/4"/HMA SURFACE 2" AGGREGATE SUBGRADE IMPROVEMENT 12")

- LEGEND**
- BI-DIRECTIONAL DRUMS WITH STEADY BURNING LIGHTS @ 50 FT CENTERS ALONG ROADWAY (TANGENT) AND 25 FT CENTERS ALONG TAPERS.
  - TYPE III BARRICADES WITH LIGHTS
  - WORK ZONE
  - IMPACT ATTENUATOR (FULLY REDIRECTIVE, NARROW), TEST LEVEL 3
  - TEMPORARY CONCRETE BARRIER
  - DOUBLE VERTICAL PANEL WITH BI-DIRECTIONAL STEADY BURNING LIGHTS AT 25 FT C-C

# STAGE III

FILE NAME = P:\2011\ME11007\_Ver\_Ver-PhI\CADD\W006\_US14\_Shts\15-D160V25-sht-STG12.dgn  
 PLOT SCALE = 1/8"=50' / in.  
 USER NAME = Millennium Professional Services

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 630.785.0110 voice, 630.839.2566 fax  
 www.mps-ill.com  
**MILLENNIA PROFESSIONAL SERVICES**

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DRAWN -	MG/JP	REVISED -
CHECKED -	TVN	REVISED -
DATE -	4/10/2014	REVISED -

**STATE OF ILLINOIS  
 DEPARTMENT OF TRANSPORTATION**

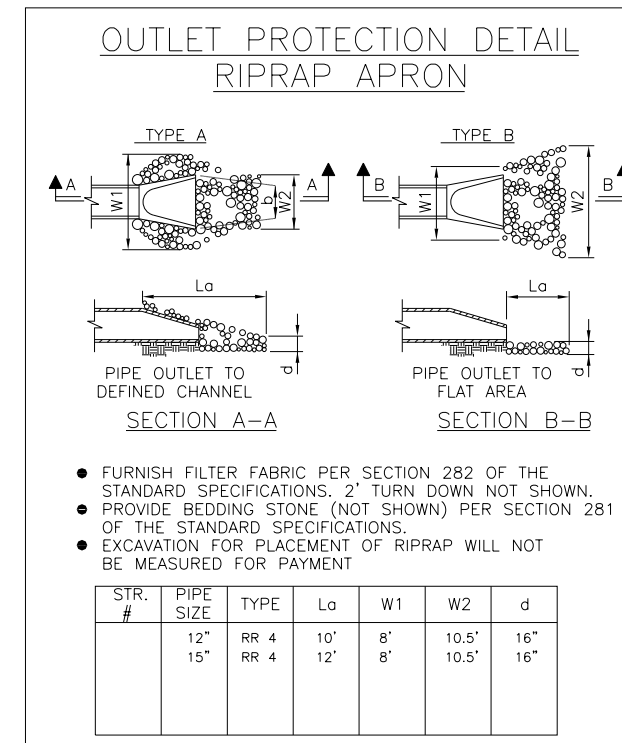
**US ROUTE 14 OVER LAWRENCE CREEK TRIBUTARY**  
**SUGGESTED STAGES CONSTRUCTION & TRAFFIC CONTROL PLAN**

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
066	21B-R	MCHENRY	40	15
CONTRACT NO.			60V25	
FED. ROAD DIST. NO. 1   ILLINOIS   FED. AID PROJECT				

SCALE: 1"=50' | SHEET NO. 3 OF 3 SHEETS | STA. TO STA. | P:\2011\ME11007\_Ver\_Ver-PhI\CADD\W006\_US14\_Shts\15-D160V25-sht-STG12.dgn

SOIL EROSION GENERAL NOTES

1. THE CONTRACTOR SHALL BE REQUIRED TO INSTALL AND MAINTAIN A PERIMETER EROSION BARRIER AS INDICATED IN THE PLANS PRIOR TO BEGINNING ANY CONSTRUCTION ACTIVITIES WHICH WILL POTENTIALLY CREATE EROSION CONDITIONS.
2. IN ADDITION TO THE LOCATIONS INDICATED ON THE PLANS, A PERIMETER EROSION BARRIER SHALL BE PLACED AROUND THE PERIMETER OF THE EARTH STOCKPILES. SEDIMENT CONTROL MEASURES MUST BE IN PLACE PRIOR TO THE TOP SOIL REMOVAL OR ANY STOCKPILE.
3. IF A STOCKPILE IS TO REMAIN IN PLACE FOR MORE THAN THREE DAYS, THEN SEDIMENT AND EROSION CONTROL SHALL BE PROVIDED FOR SUCH STOCKPILES.
4. EXISTING CULVERTS WITHIN THE DISTURBED LIMITS SHALL BE PROTECTED PRIOR TO ANY CONSTRUCTION ACTIVITIES COMMENCING UPSTREAM OF THE CULVERT.
5. PERMANENT SEEDING/SODDING SHALL BE IMPLEMENTED ACCORDING TO THE PLANS IN CONJUNCTION WITH CONSTRUCTION STAGING.
6. DOUBLE TEMPORARY EROSION CONTROL BARRIERS HAVE BEEN PROVIDED IN THE CONTRACT QUANTITIES, TO BE UTILIZED AT PERIMETER OF WETLAND AND OTHER ENVIRONMENTALLY SENSITIVE AREAS. WHEN EARTHWORK IS ADJACENT TO A WATER OF THE U.S., SEDIMENT CONTROL MEASURES WILL BE IN PLACE SO THAT OVERLAND FLOW IS NOT ALLOWED TO CARRY SEDIMENT TO THE WATERS OF THE U.S.
7. THE CONTRACTOR SHALL PERFORM INSPECTIONS A MINIMUM OF ONCE EVERY SEVEN DAYS OF THE FOLLOWING:  
 1) DISTURBED AREAS OF THE PROJECT SITE THAT HAVE NOT BEEN FULLY STABILIZED, 2) STRUCTURAL CONTROL MEASURES (SILT FENCE, ETC.) AND 3) LOCATIONS WHERE VEHICLES ENTER AND EXIT THE SITE. AN ADDITIONAL INSPECTION OF THE ITEMS LISTED ABOVE MUST BE MADE WITHIN TWENTY-FOUR (24) HOURS OF A 0.5-INCH OR GREATER RAINFALL OR EQUIVALENT SNOWFALL.
8. GRASS AREAS DISTURBED OR DAMAGED BY CONSTRUCTION ACTIVITIES SHALL BE RESTORED TO ORIGINAL CONDITIONS. GRASS AREAS SHALL BE SEEDED AND COVERED BY EROSION CONTROL BLANKET AS INDICATED IN THE PLAN..
9. DUST CONTROL:  
 (1) WHEN DUST BLOWING FROM CONSTRUCTION SITES MAY BECOME A TRAFFIC HAZARD OR A DANGER TO THE HEALTH OR COMFORT TO PERSONS DOWNWIND, IT SHALL BE CONTROLLED EITHER PERMANENTLY OR TEMPORARILY DEPENDING UPON THE STATE OF DEVELOPMENT OF THE SITE. DUST CONTROL MEASURES SHALL BE TAKEN WHEN REQUIRED BY THE GOVERNING AUTHORITY.  
 (2) DUST PROBLEMS FROM ACTIVE CONSTRUCTION AREAS SHALL BE KEPT UNDER CONTROL BY MEANS OF WATERING DRY SURFACES AND/OR THE APPLICATION OF CALCIUM CHLORIDE. APPLICATION AND REPETITION RATES SHALL BE AS NECESSARY FOR EFFECTIVE CONTROL.  
 (3) IN THE EVENT OF SEVERE DUST PROBLEMS, THE GOVERNING AUTHORITY MAY STOP SUCH DUST-PRODUCING ACTIVITIES UNTIL THE PROBLEM IS RESOLVED.  
 (4) CONTRACTOR SHALL BE RESPONSIBLE FOR TAKING NECESSARY MEASURES TO CONTROL DUST SO THERE WILL BE NO DUST PROBLEMS FOR ADJACENT RESIDENTS CAUSED BY CONSTRUCTION ACTIVITIES.
10. CONSTRUCTION ACTIVITIES SHALL BE SCHEDULED TO MINIMIZE THE DURATION OF TIME THAT SOIL IS EXPOSED AND UNPROTECTED. IN NO CASE SHALL THE EXISTING VEGETATION BE DESTROYED, REMOVED, OR DISTURBED MORE THAN FOURTEEN (14) CALENDAR DAYS PRIOR TO ANY OTHER INITIATION OF IMPROVEMENTS.



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 USER NAME = #USER#

**AEG**  
 Ltd.

3100 Dundee Road, Suite 502, Northbrook, IL 60062  
 847.753.8020 office 847.753.8023 fax

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CHECKED - CW	REVISED -
DATE - 03/05/2014	REVISED -

**STATE OF ILLINOIS  
 DEPARTMENT OF TRANSPORTATION**

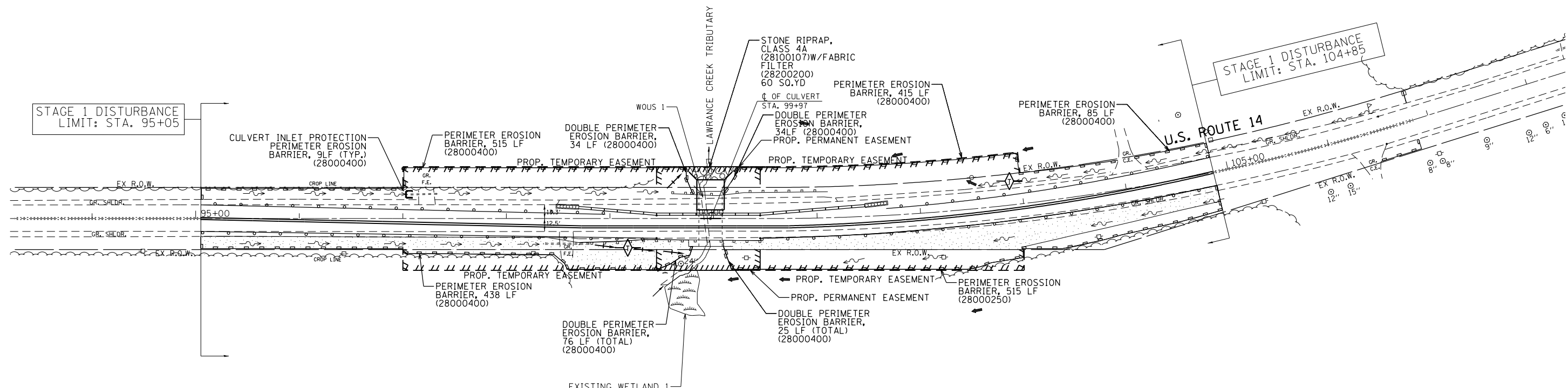
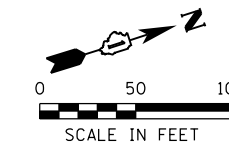
**US 14  
 OVER LAWRENCE CREEK TRIBUTARY**

**EROSION CONTROL GENERAL  
 NOTES AND DETAIL**

SCALE: NTS SHEET OF SHEETS STA. TO STA.

F.A.P. RTE. 066	SECTION 21B-R	COUNTY MCHENRY	TOTAL SHEETS 40	SHEET NO. 16
CONTRACT NO. 60V25				
ILLINOIS FED. AID PROJECT				





LEGEND	
EXISTING	PROPOSED
-----	STORM CULVERT
————	R.O.W.
	INLET AND PIPE PROTECTION (PERIMETER EROSION BARRIER, 28000400)
	STONE RIPRAP, CLASS A4 (28100107) W/FABRIC FILTER (28200200)
○	TREE
	PERIMETER EROSION BARRIER (28000400)
	WETLAND
	TEMPORARY EROSION CONTROL BLANKET (28001100) WITH TEMPORARY EROSION CONTROL SEEDING (28000250)
←	SURFACE FLOW
~	DITCH FLOW
	TEMPORARY DITCH CHECK (28000305)

NOTE:

1. THE LABELED SEEDING AREA HAS COVERED THE MAXIMUM POTENTIAL AREA THAT COULD BE DISTURBED BY THE PROJECT, FOR THOSE AREAS THAT ARE NOT DISTURBED BY CONSTRUCTION ACTIVITIES AND CONSTRUCTION EQUIPMENT, THE SEEDING AND BLANKET ARE NOT NEEDED.
2. IT IS INTENDED THAT ALL GRASS AREAS BE PERMANENTLY SEEDED WITHIN 14 DAYS AFTER COMPLETION OF TOPSOIL PLACEMENT. IF, DUE TO WEATHER CONDITIONS, THIS IS NOT POSSIBLE TEMPORARY EROSION CONTROL BLANKET SHALL BE USED TO PROTECT THE SOIL.
3. TEMPORARY SEEDING SHALL BE APPLIED IN AREAS OF EXPOSED SOIL IF CONSTRUCTION ACTIVITY IS SCHEDULED TO CEASE FOR A PERIOD OF MORE THAN 15 CALENDAR DAYS.

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 1"

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DATE - 3/10/2014	REVISED -

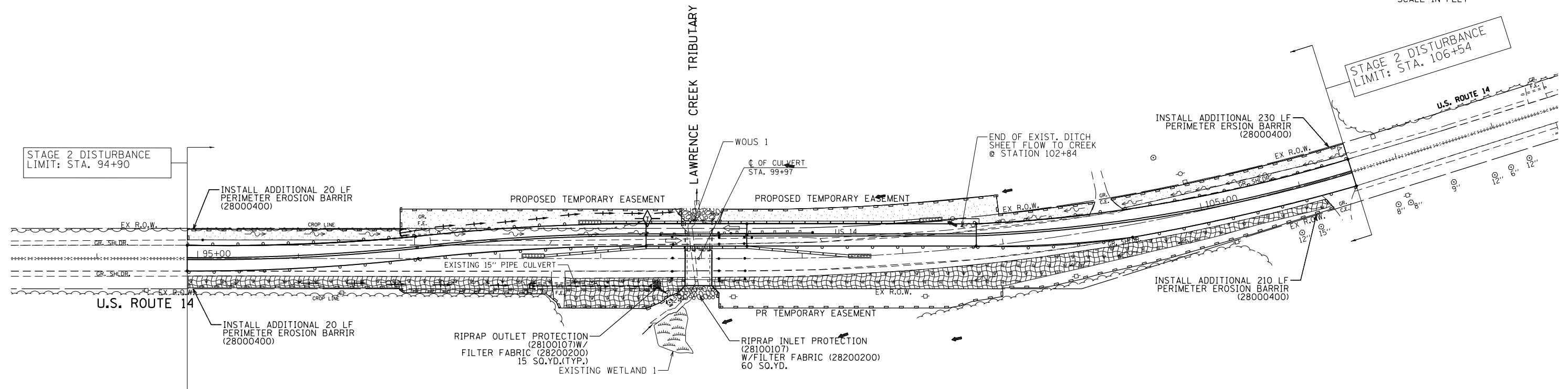
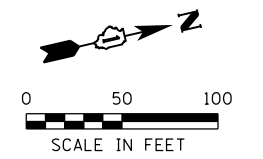
**STATE OF ILLINOIS  
 DEPARTMENT OF TRANSPORTATION**

**US 14  
 OVER LAWRENCE CREEK TRIBUTARY**

**EROSION CONTROL  
 PLAN-STAGE 1**

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
066	21B-R	MCHENRY	40	17
CONTRACT NO. 60V25				
ILLINOIS FED. AID PROJECT				

SCALE: 1"=50' SHEET OF SHEETS STA. TO STA.



STAGE 2 DISTURBANCE  
LIMIT: STA. 94+90

STAGE 2 DISTURBANCE  
LIMIT: STA. 106+54

LEGEND

-----	EXISTING	-----	PROPOSED
-----	STORM CULVERT	-----	
-----	R.O.W.	-----	
-----	INLET AND PIPE PROTECTION (PERIMETER EROSION BARRIER, 28000400)	□	
-----	STONE RIPRAP, CLASS A4 (28100107) W/FABRIC FILTER (28200200)	▒	
○	TREE		
-----	PERIMETER EROSION BARRIER (28000400)	-----	
▒	WETLAND	▒	
▒	HEAVY EROSION CONTROL BLANKET (25100635) WITH TYPE 4A MIXTURE SEEDING (25000312)	▒	
▒	TEMPORARY EROSION CONTROL BLANKET (28001100) WITH TEMPORARY EROSION CONTROL SEEDING (28000250)	▒	
→	SURFACE FLOW	→	
→	DITCH FLOW	→	
→	TEMPORARY DITCH CHECK (28000305)	→	

NOTE:

1. THE LABELED SEEDING AREA HAS COVERED THE MAXIMUM POTENTIAL AREA THAT COULD BE DISTURBED BY THE PROJECT, FOR THOSE AREAS THAT ARE NOT DISTURBED BY CONSTRUCTION ACTIVITIES AND CONSTRUCTION EQUIPMENT, THE SEEDING AND BLANKET ARE NOT NEEDED.
2. IT IS INTENDED THAT ALL GRASS AREAS BE PERMANENTLY SEEDING WITHIN 14 DAYS AFTER COMPLETION OF TOPSOIL PLACEMENT. IF, DUE TO WEATHER CONDITIONS, THIS IS NOT POSSIBLE TEMPORARY EROSION CONTROL BLANKET SHALL BE USED TO PROTECT THE SOIL.
3. TEMPORARY SEEDING SHALL BE APPLIED IN AREAS OF EXPOSED SOIL IF CONSTRUCTION ACTIVITY IS SCHEDULED TO CEASE FOR A PERIOD OF MORE THAN 15 CALENDAR DAYS.

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CHECKED BY = #CHECKED#  
DATE = #DATE#



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847.753.8020 office 847.753.8023 fax

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DATE - 3/11/2014	REVISED -

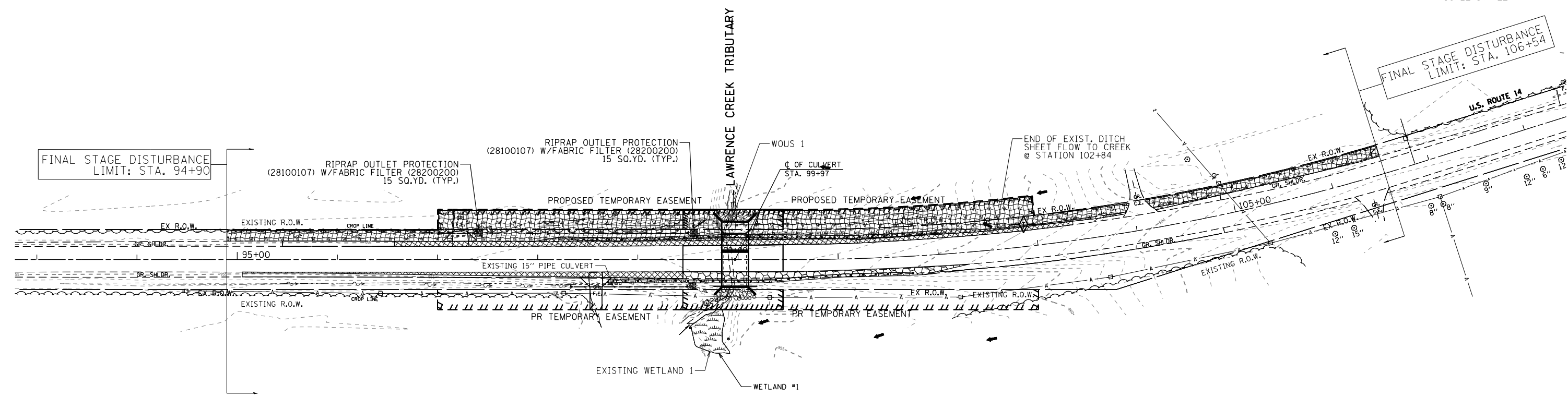
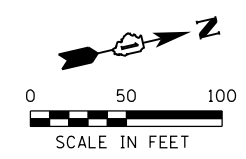
STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION

US 14  
OVER LAWRENCE CREEK TRIBUTARY

EROSION CONTROL  
PLAN-STAGE 2

SCALE: 1"=50' SHEET OF SHEETS STA. TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
066	21B-R	MCHENRY	40	18
CONTRACT NO. 60V25				
ILLINOIS FED. AID PROJECT				



LEGEND

EXISTING		PROPOSED
-----	STORM CULVERT	-----
-----	R.O.W.	-----
-----	INLET AND PIPE PROTECTION (PERIMETER EROSION BARRIER, 28000400)	□
-----	STONE RIPRAP, CLASS A4 (28100107) W/FABRIC FILTER (28200200)	▨
○	TREE	○
-----	PERIMETER EROSION BARRIER (28000400)	-----
▨	WETLAND	▨
▨	HEAVY EROSION CONTROL BLANKET (25100635) WITH TYPE 4A MIXTURE SEEDING (25000312)	▨
→	SURFACE FLOW	→
→	DITCH FLOW	→
◆	TEMPORARY DITCH CHECK (28000305)	◆

NOTE:  
 1. THE LABELED SEEDING AREA HAS COVERED THE MAXIMUM POTENTIAL AREA THAT COULD BE DISTURBED. FOR THOSE AREAS THAT ARE NOT DISTURBED BY CONSTRUCTION ACTIVITIES AND CONSTRUCTION EQUIPMENT, THE SEEDING AND BLANKET ARE NOT NEEDED.

FILE NAME = \$FILE\$  
 USER = \$USER\$  
 USER NAME = \$USERNAME\$

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 847.753.8020 office 847.753.8023 fax

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DATE - 3/11/2014	REVISED -

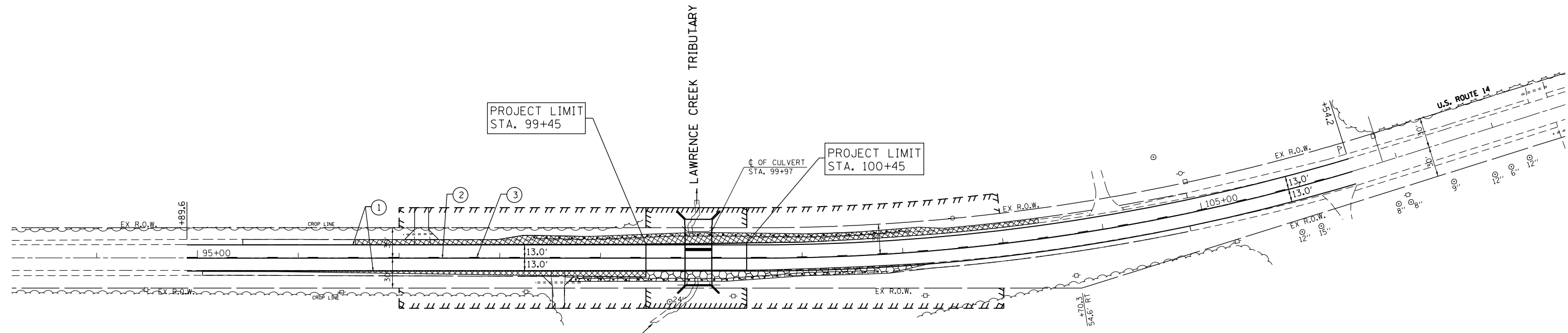
**STATE OF ILLINOIS**  
**DEPARTMENT OF TRANSPORTATION**

**US 14**  
**OVER LAWRENCE CREEK TRIBUTARY**

**FINAL STAGE SEEDING**  
**PLAN**

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
066	21B-R	MCHENRY	40	19
CONTRACT NO. 60V25				
ILLINOIS FED. AID PROJECT				

SCALE: 1"=50' SHEET OF SHEETS STA. TO STA.



- ① THERMOPLASTIC PAVEMENT MARKING - LINE 4", SOLID WHITE LINE (TYP)
- ② THERMOPLASTIC PAVEMENT MARKING - LINE 4", SOLID YELLOW LINE (TYP)
- ③ THERMOPLASTIC PAVEMENT MARKING - LINE 4", YELLOW 30 FT SKIP, 10 FT DASH

NOTE:  
 RAISED REFLECTIVE PAVEMENT MARKERS SHALL BE INSTALLED IN ACCORDANCE WITH DISTRICT DETAIL TC-11.

FILE NAME = \$FILE\$  
 USER NAME = \$USER\$  
 USER NAME = \$USER\$

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 Ltd.

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CHECKED - CW	REVISED -
DATE - 3/11/2014	REVISED -

**STATE OF ILLINOIS  
 DEPARTMENT OF TRANSPORTATION**

**US 14  
 OVER LAWRENCE CREEK TRIBUTARY**

**PAVEMENT MARKING PLANS**

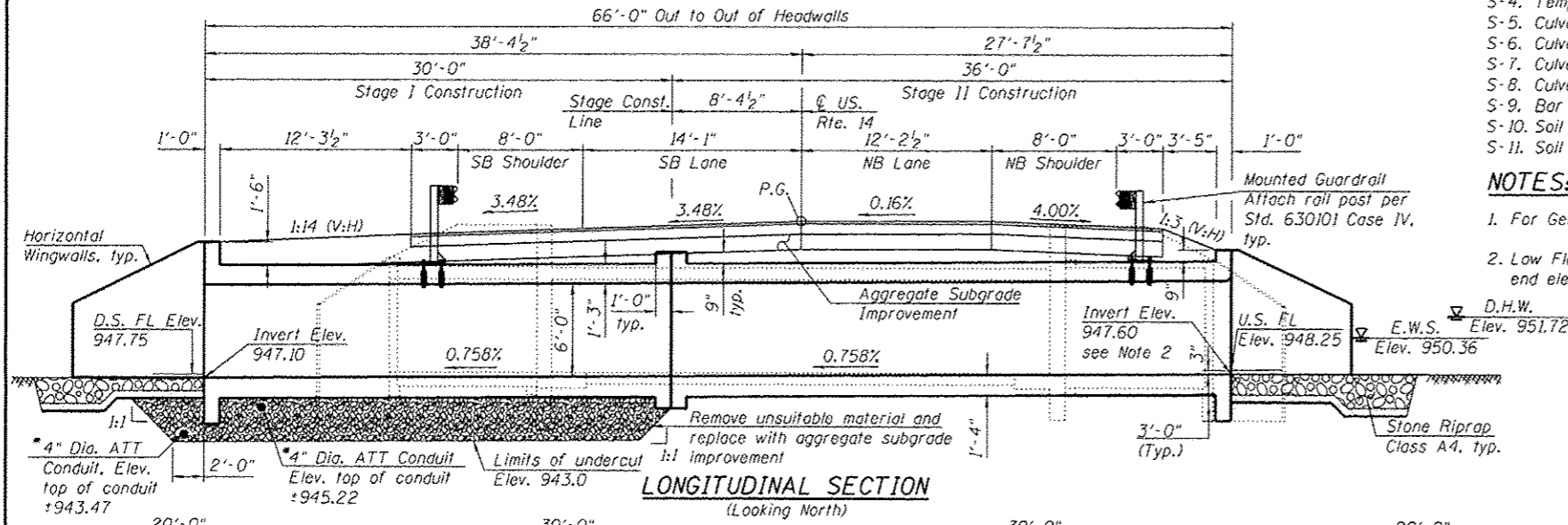
SCALE: 1"=50' SHEET 1 OF 1 SHEETS STA. 94+89.6 TO STA. 106+54.2

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
066	21B-R	MCHENRY	40	20
CONTRACT NO. 60V25				
ILLINOIS FED. AID PROJECT				

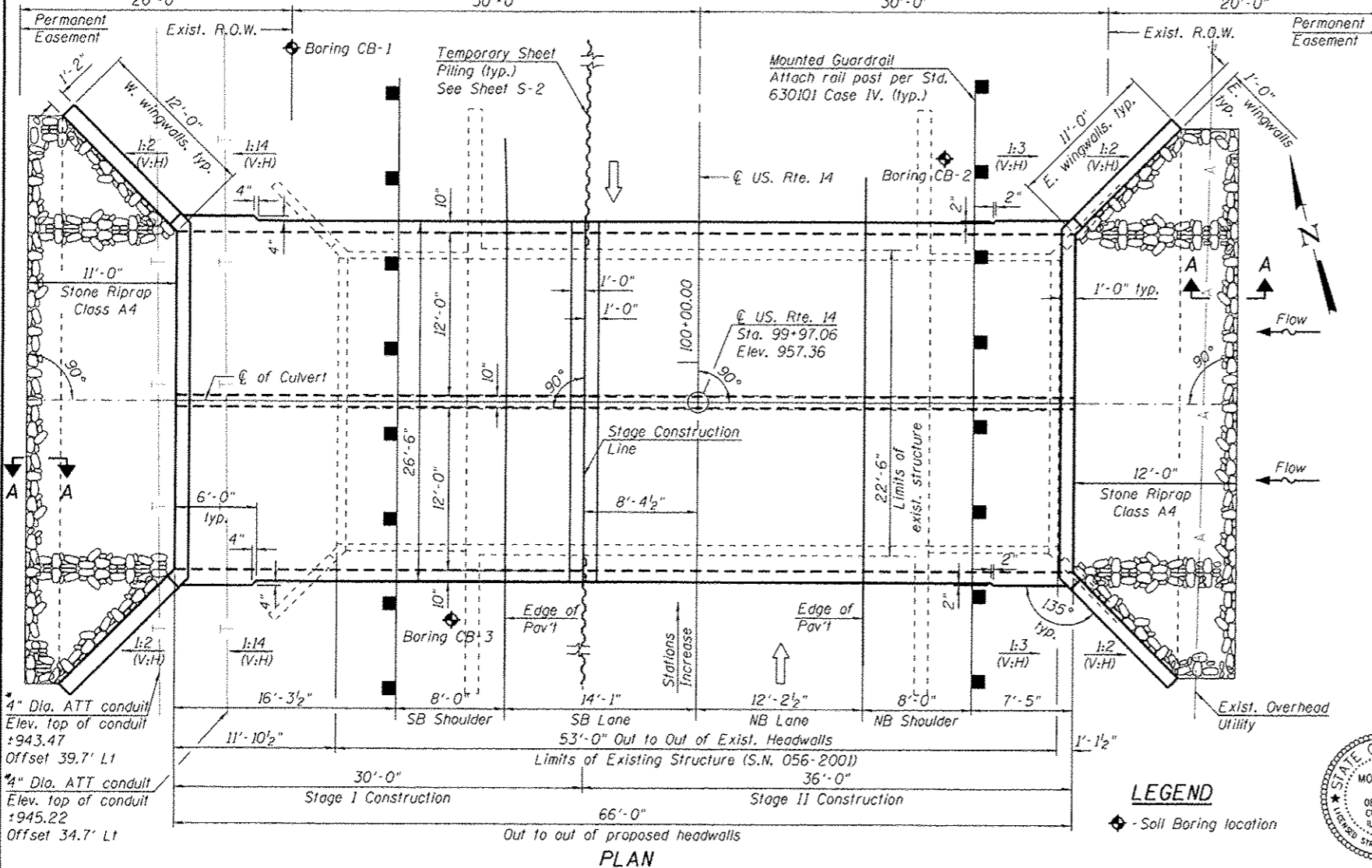
Bench Mark: BM-1 Sta 99+61.40 35.6' LT, N 2,113,477.9430 E 912,435.0720 Elevation 955.21.  
 Description: NGS Control Point MCH14-1a, Steel Rod in Sleeve.  
 Existing Structure: SN 056-2001 originally constructed in 1924 as a cast-in-place box culvert two cells 10' wide and 6' high and 32' long.  
 The culvert was lengthened approximately by 9.5' on the east side in 1949 and approximately 9.5' on the west side in 1979.  
 One lane of traffic shall be maintained in each direction utilizing stage construction.

No Salvage

66'-0" Out to Out of Headwalls



**LONGITUDINAL SECTION**  
(Looking North)



**PLAN**

**INDEX OF SHEETS**

- S-1. General Plan
- S-2. Stage Construction Details I
- S-3. Stage Construction Details II
- S-4. Temporary Concrete Barrier for Stage Construction
- S-5. Culvert Plan Bottom Slab Details
- S-6. Culvert Plan Top Slab Details
- S-7. Culvert Sections and Details I
- S-8. Culvert Sections and Details II
- S-9. Bar Splicer Assembly and Mechanical Splicer Details
- S-10. Soil Boring Logs I
- S-11. Soil Boring Logs II

**NOTES:**

1. For General notes, see Sheet S-2.
2. Low Flow Weir is located at the upstream (East end) North Cell end elevation only. For sections and details, see Sheet S-7.

**TOTAL BILL OF MATERIAL**

ITEM	UNIT	TOTAL
Removal and Disposal of Unsuitable Material	Cu. Yd.	110
Stone Riprap, Class A4	Sq. Yd.	95
Filter Fabric	Sq. Yd.	95
Aggregate Subgrade Improvement	Cu. Yd.	944
Removal of Existing Structures	Each	1
Structure Excavation	Cu. Yd.	530
Reinforcement Bars, Epoxy Coated	Pound	41,620
Bar Splicers	Each	165
Name Plates	Each	1
Concrete Box Culverts	Cu. Yd.	2,33.6
Steel Plate Beam Guardrail, Attached to Structures	Foot	62.5
Temporary Sheet Piling	Sq. Ft.	1,281
Temporary Support System	L. Sum	1

\*\* The excavated unsuitable material shall be used within the project limits as Top Soil. See Earth Work Schedule.

**DESIGN SPECIFICATIONS**

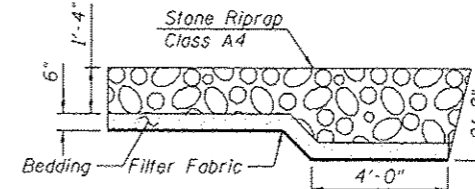
2012 AASHTO LRFD Bridge Design Specifications, 6th Edition.

**LOADING HL-93**

Allow 50 lb/sq. ft. for future wearing surface

**DESIGN STRESSES**

FIELD UNITS  
 $f'_c = 3,500$  psi (Concrete)  
 $f_y = 60,000$  psi (Reinforcement)



**SECTION A-A**

STATION 99+97.06  
 BUILT 20... BY  
 STATE OF ILLINOIS  
 LOADING HL-93  
 STRUCTURE NO. 056-0086

**NAME PLATE**  
See Std. S15001

**WATERWAY INFORMATION**

Drainage Area = 1.4 sq. mi Low Grade Elev. = 957.19 at Sta. 99+70 Max. Recorded H.W.E. = 952.00

Flood	Freq. Yr.	Discharge C.F.S.	Opening Sq. Ft.		Nat. H.W.E.	Head - Ft.		Headwater El.	
			Exist.	Prop.		Exist.	Prop.	Exist.	Prop.
	2	123	27.41	31.7	949.93	0.00	0.00	949.93	949.93
	10	191	44.7	71.3	950.97	0.00	0.00	950.97	950.97
Design	50	458	59.7	89.3	951.72	0.00	0.00	951.72	951.72
Base	100	564	63.2	93.6	951.90	0.05	0.00	951.95	951.90
Overtopping	260	890	82.8	117.1					
Max. Calc.	500	1572	81.7	115.7	952.82	0.69	0.55	953.51	953.37

10-year velocity through the existing culvert = 4.27 fps.  
 10-year velocity through the proposed culvert = 2.68 fps.

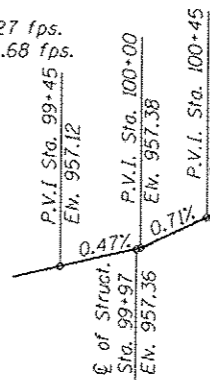
**DESIGN SCOUR ELEVATION TABLE**

Design Scour Elevation (ft.)	D.S. Invert	U.S. Invert
	944.50	945.00

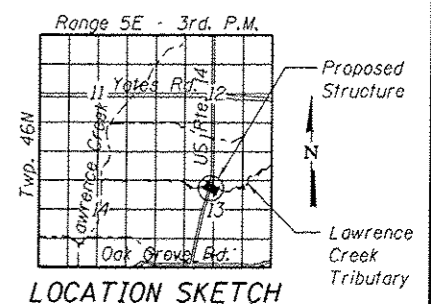
\* Conduit to be relocated by others.

**APPROVED**  
FOR STRUCTURAL ADEQUACY ONLY

*Moussa A. Issa*  
ENGINEER OF BRIDGES AND STRUCTURES



**PROFILE GRADE**  
(Along & Roadway)



**LOCATION SKETCH**

**GENERAL PLAN**  
 U.S. RTE. 14 OVER  
 LAWRENCE CREEK TRIBUTARY  
 F.A.P. RTE. 66 - SEC. 21B-R  
 McHENRY COUNTY  
 STATION 99+97.06  
 STRUCTURE NO. 056-0086

Signed *Moussa A. Issa*  
 Moussa A. Issa, HBM II. Lic. No. 081-005738  
 Expires 11-30-2014

Date 06/19/2014 For Sheets S-1 Thru S-11  
 (Total of 11 Sheets)



STATE OF ILLINOIS  
 DEPARTMENT OF TRANSPORTATION

GENERAL PLAN  
 STRUCTURE NO. 056-0086

SHEET NO. 5-1 OF 11 SHEETS

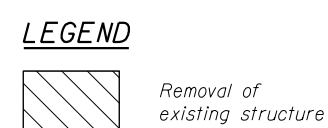
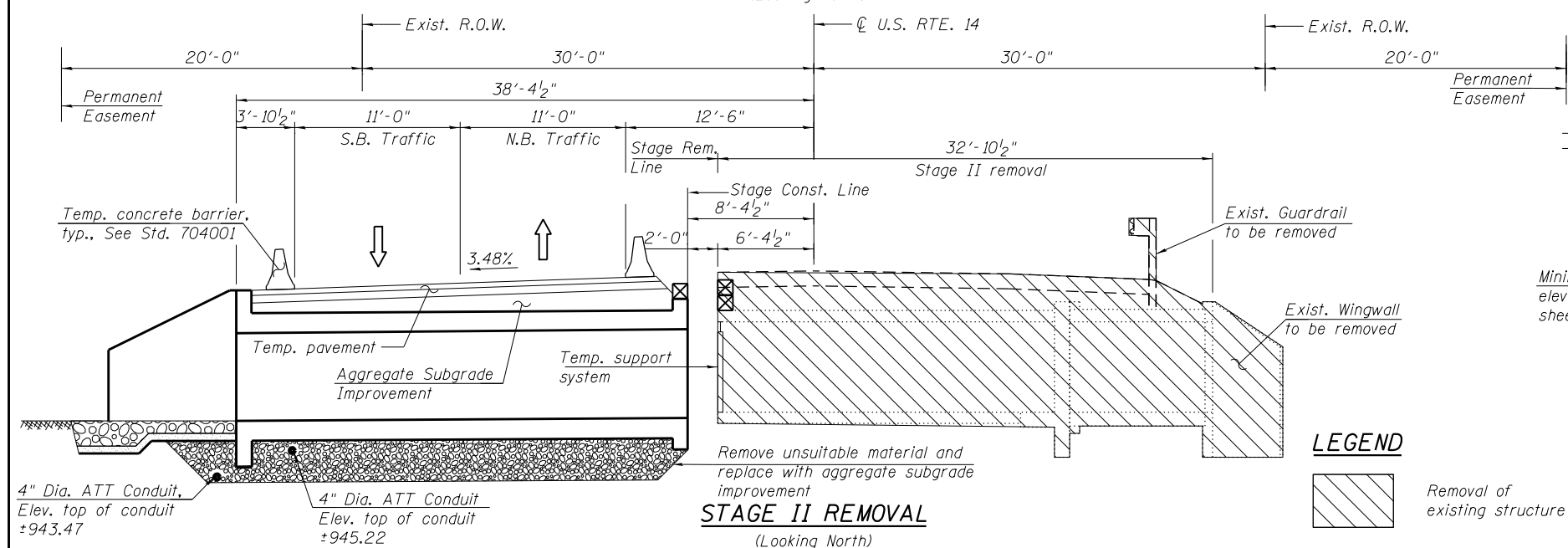
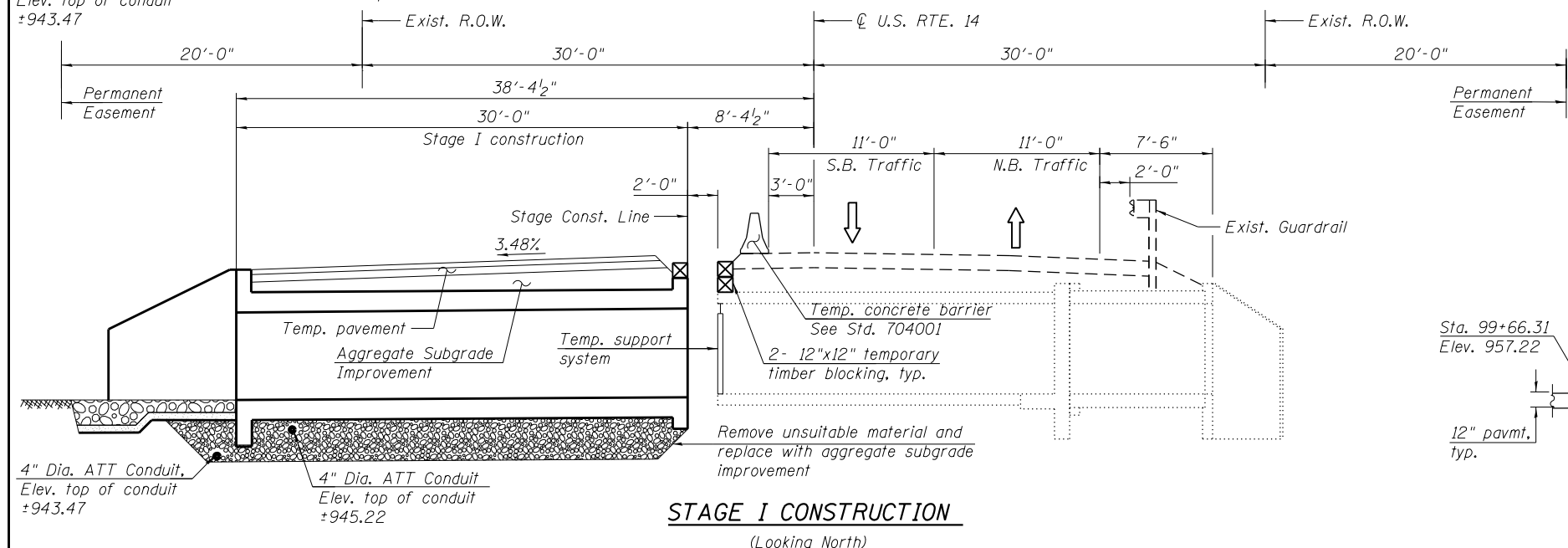
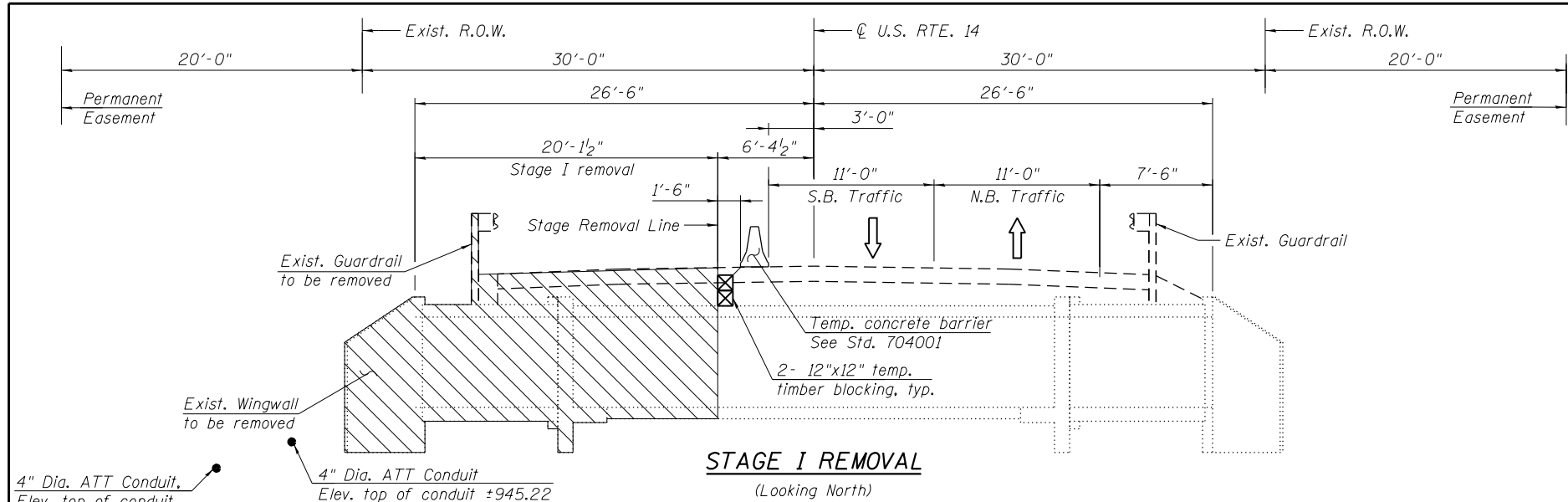
F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
066	21B-R	McHENRY	40	21

CONTRACT NO. 60V25  
 ILLINOIS FED. AID PROJECT

**HBM**  
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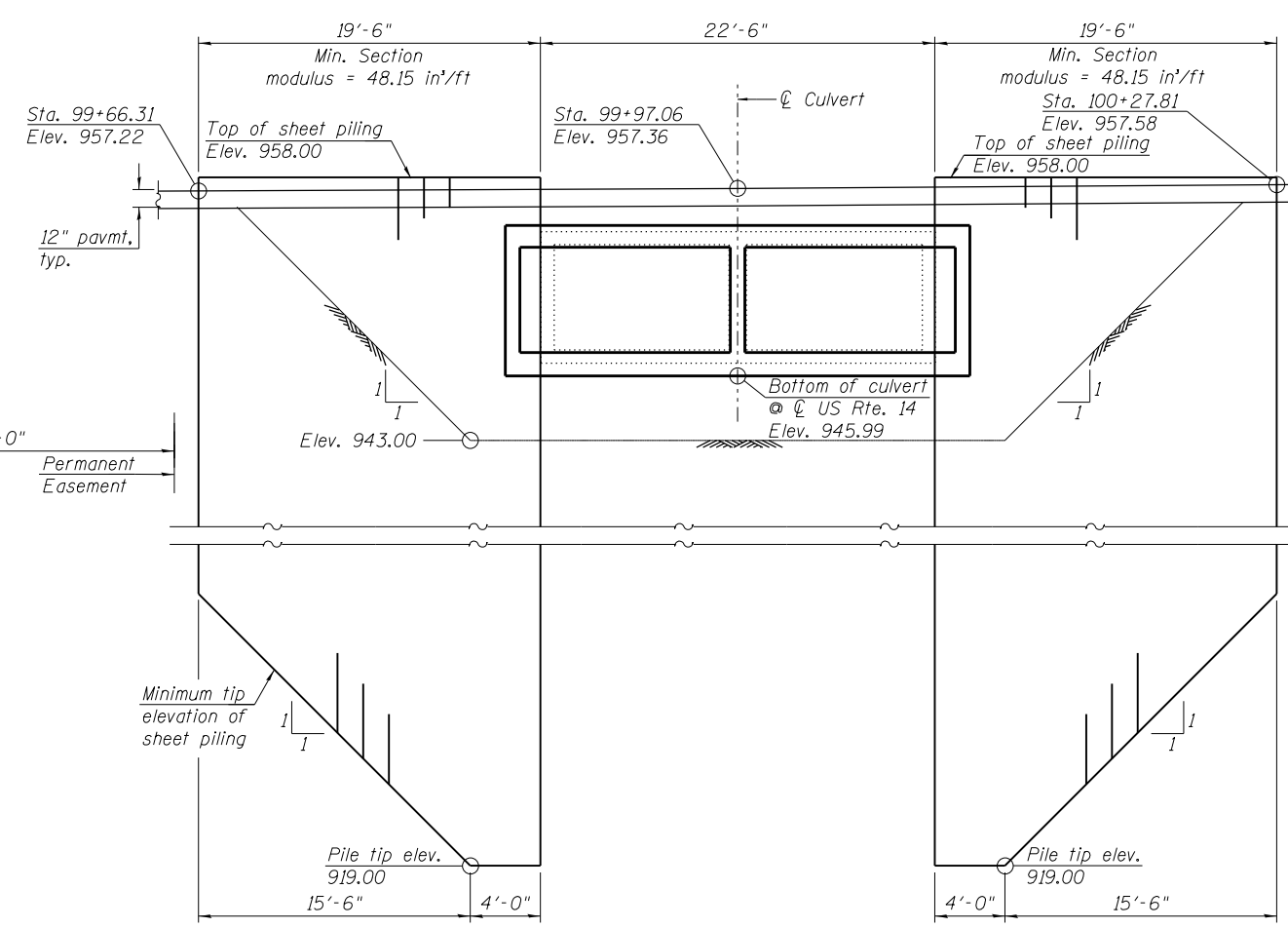
USER NAME: mustafaelobaidi  
 FILE NAME: 0560086-60V25-001-GPE.dgn  
 PLOT SCALE: N.T.S.  
 PLOT DATE: 6/19/2014

DESIGNED - JMG, MAF REVISOR  
 CHECKED - MI REVISOR  
 DRAWN - MAF, HM REVISOR  
 CHECKED - MI, MAI REVISOR



**STRUCTURAL NOTES:**

1. Reinforcement bars designated (E) shall be epoxy coated.
2. A distance of half the length of the wingwall but not less than six feet of the barrel shall be poured monolithically with the wingwalls.
3. Precast culvert alternate is not allowed.
4. The limits and quantities of removal of the existing soil and replacement with the aggregate subgrade improvement materials shown are based on the boring data and may be modified by the District Geotechnical and Field Engineers for variable subsurface conditions encountered in the field.
5. Layout of the slope protection system may be varied to suit ground conditions in the field as directed by the Engineer.
6. 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.
7. Removal of unsuitable material and replacement with aggregate subgrade improvement will be required below the culvert barrels in the northwest quadrant of the culvert during construction. The limits and quantities of removal and replacement shown for the culvert barrel are based on the Boring CB-01 data and may be modified during construction. The District Geotechnical and Field Engineers will identify limits and quantity for variable subsurface conditions encountered in the field.
8. For details of temporary concrete barrier, see Sheet S-4.
9. For quantity of temporary concrete barrier, see roadway plan.
10. For limits of aggregate subgrade improvement, see SECTION THRU BARREL on Sheet S-8.



**TEMPORARY SHEET PILING DESIGN**  
(All dimensions are along the front face of existing culvert)

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INSPECTION & TESTING  
RESEARCH & TESTING

4415 WEST HARRISON ST.  
SUITE 231  
MILLSIDE, IL 60162  
PHONE: (708) 236-0900  
FAX: (708) 236-0901

USER NAME = mustafa.alobaidi  
FILE NAME = 0560086-60V25-002-Stage Const Dtl.dgn  
PLOT SCALE = N.T.S.  
PLOT DATE = 5/2/2014

DESIGNED - JMG, MAF  
CHECKED - MI  
DRAWN - JMG, PH  
CHECKED - MI, MAI

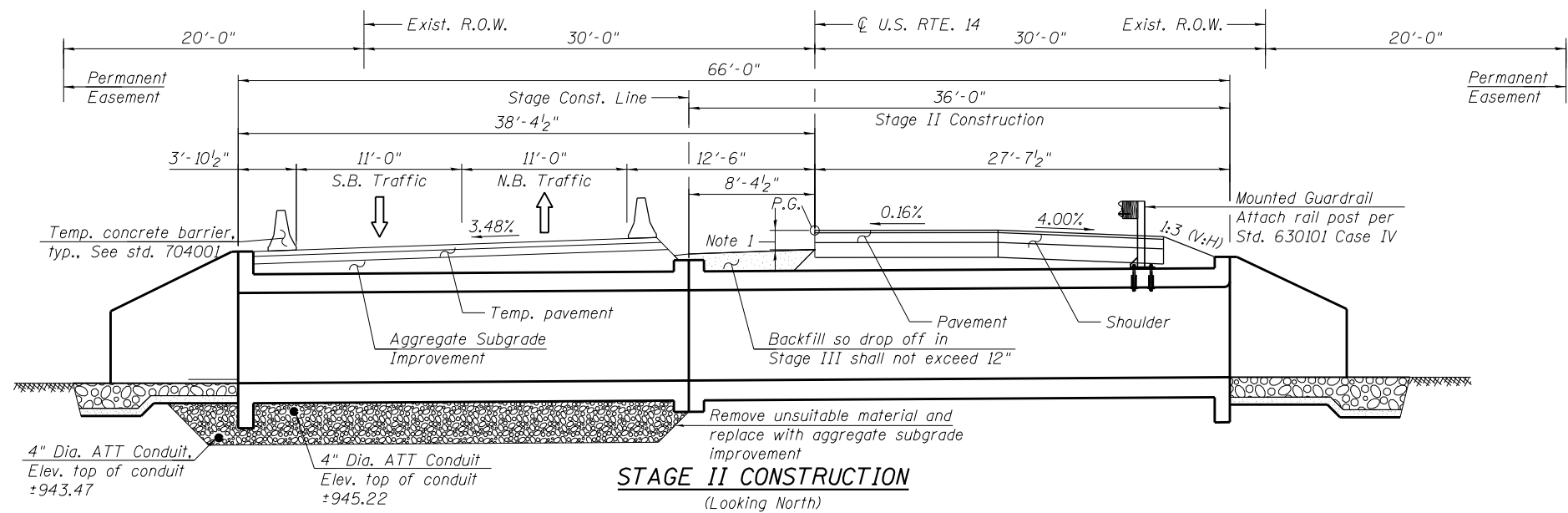
REVISED  
REVISED  
REVISED  
REVISED

**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

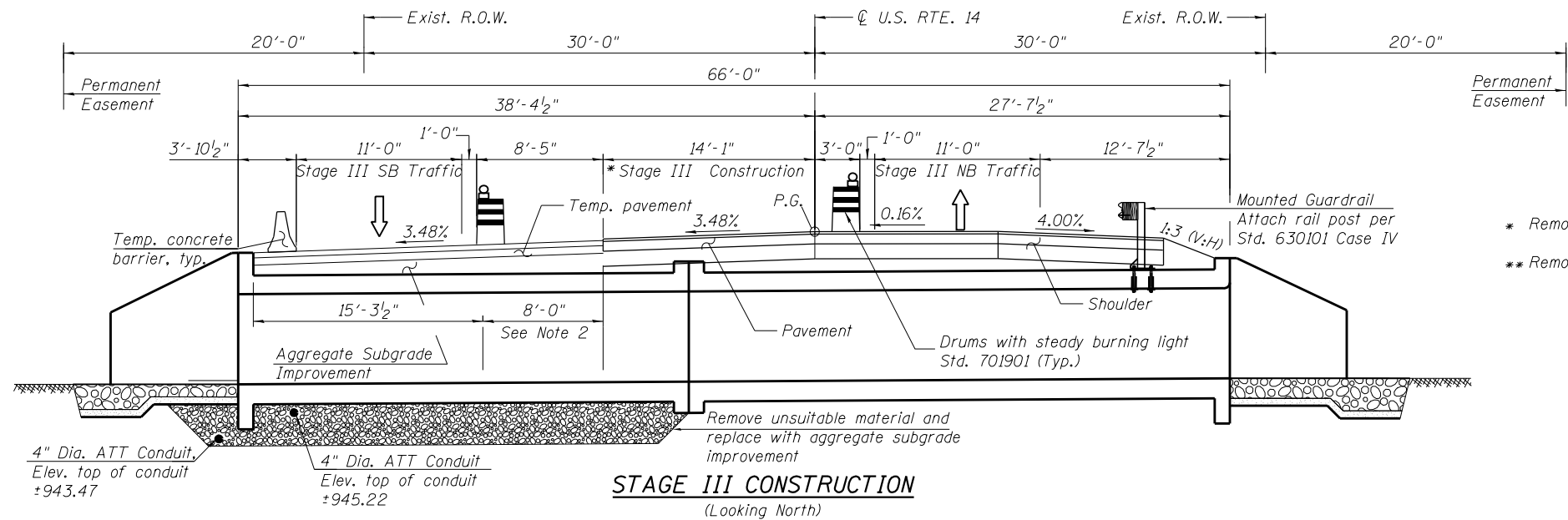
**STAGE CONSTRUCTION DETAILS I  
STRUCTURE NO. 056-0086**

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
066	21B-R	MCHENRY	40	22
CONTRACT NO. 60V25				
ILLINOIS FED. AID PROJECT				

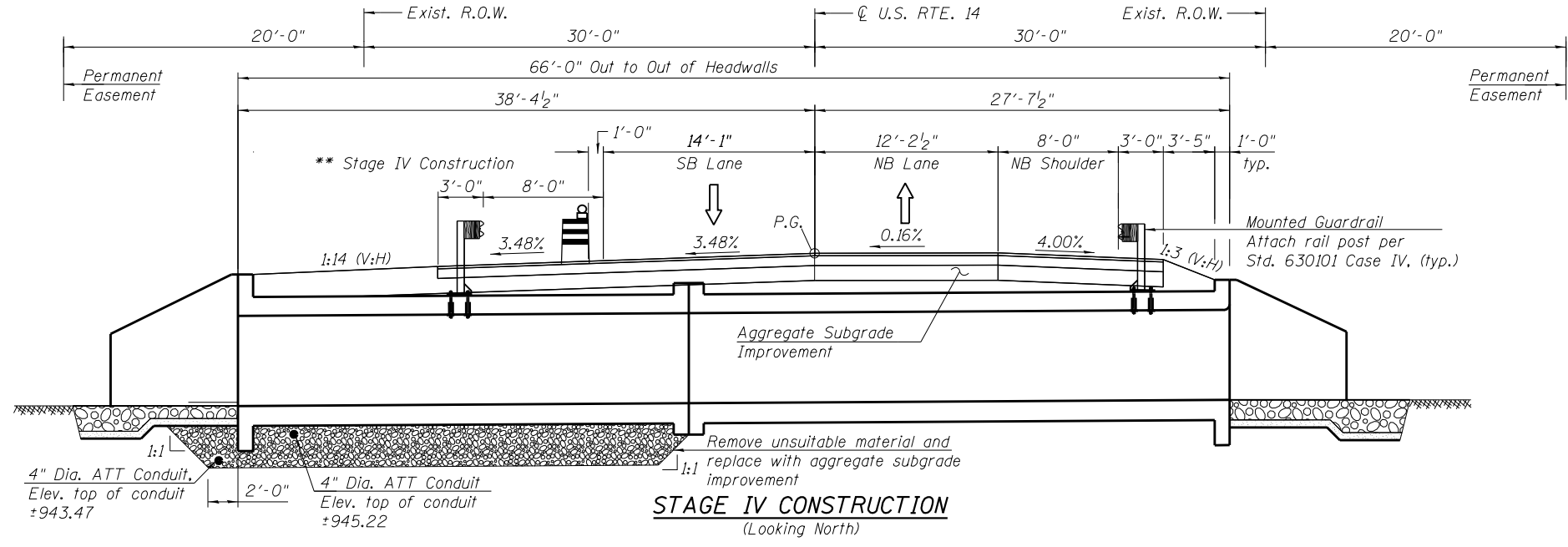
SHEET NO. S-2 OF 11 SHEETS



**STAGE II CONSTRUCTION**  
(Looking North)



**STAGE III CONSTRUCTION**  
(Looking North)



**STAGE IV CONSTRUCTION**  
(Looking North)

**NOTES:**

1. The area immediately west of the pavement should be backfilled so the drop off height is less than or equal to 12".
2. Part of temporary pavement will remain and be used as southbound shoulder.

- \* Remove portions of temporary pavement as needed to construct pavement in Stage III Construction.
- \*\* Remove temporary pavement outside limits of shoulder and install Mounted Guardrail during Stage IV Construction.

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PHONE: (708) 236-0900  
FAX: (708) 236-0901

USER NAME = mustafa.alobaidi  
FILE NAME = 0560086-60V25-003-Stage Const Dtl2.dgn  
PLOT SCALE = N.T.S.  
PLOT DATE = 5/2/2014

DESIGNED - JMG, MAF  
CHECKED - MI  
DRAWN - JMG, PH  
CHECKED - MI, MAI  
REVISED  
REVISED  
REVISED  
REVISED

**STATE OF ILLINOIS**  
**DEPARTMENT OF TRANSPORTATION**

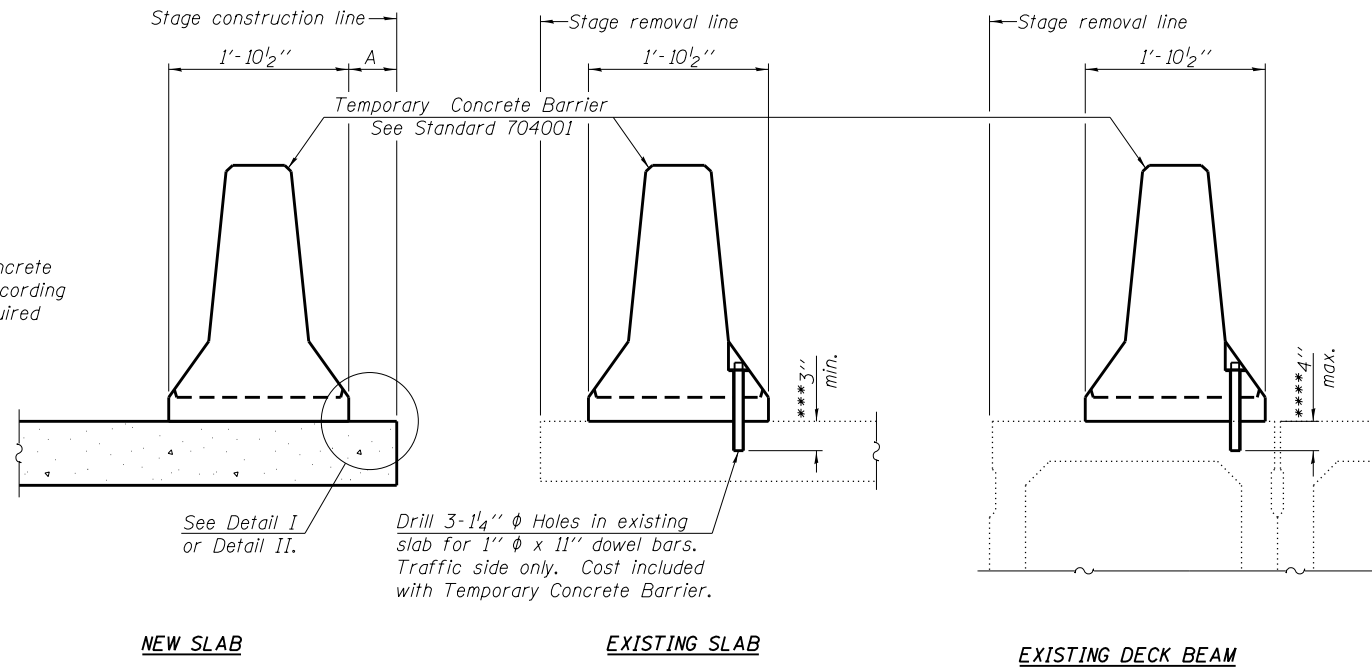
**STAGE CONSTRUCTION DETAILS II**  
**STRUCTURE NO. 056-0086**

SHEET NO. S-3 OF 11 SHEETS

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
066	21B-R	MCHENRY	40	23
CONTRACT NO. 60V25				

ILLINOIS FED. AID PROJECT

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



**SECTIONS THRU SLAB OR DECK BEAM**

**NOTES**

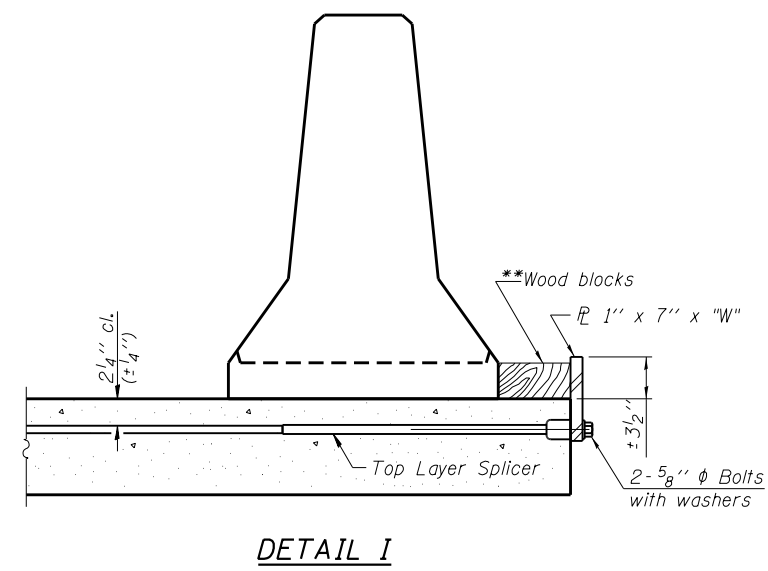
Detail I - With Bar Splicer or Couplers:  
Connect one (1) 1" x 7" x "W" steel  $\bar{L}$  to the top layer of couplers with 2-5/8"  $\phi$  bolts screwed to coupler at approximate  $\bar{C}$  of each barrier panel.

Detail II - With Extended Reinforcement Bars:  
Connect one (1) 1" x 7" x "W" steel  $\bar{L}$  to the concrete slab or concrete wearing surface with 2-5/8"  $\phi$  Expansion Anchors or cast in place inserts spaced between the top layer of reinforcement at approximate  $\bar{C}$  of each barrier panel.

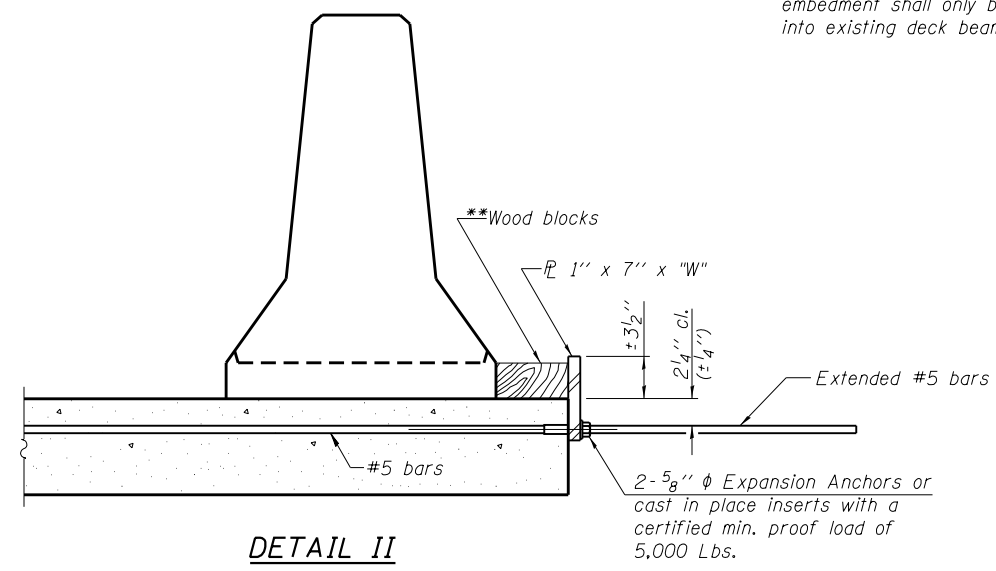
Cost of anchorage is included with Temporary Concrete Barrier. The 1" x 7" x "W" plate shall not be removed until stage II construction forms and all reinforcement bars are in place and the concrete is ready to be placed.

\*\*\* Dimension shown is minimum required embedment into concrete. If hot-mix asphalt wearing surface is present, minimum embedment shall be in addition to wearing surface depth.

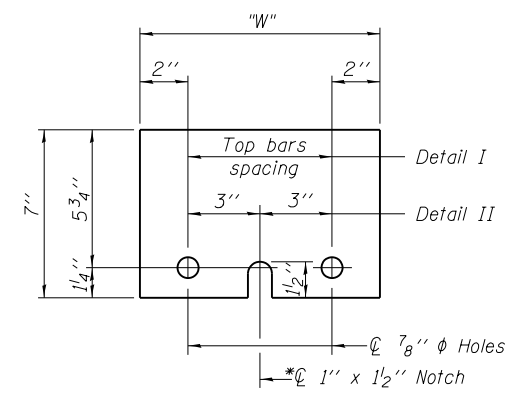
\*\*\*\* If existing deck beam is to remain in place after stage construction, embedment shall only be into wearing surface and not into existing deck beam concrete.



**DETAIL I**



**DETAIL II**



**STEEL RETAINER  $\bar{L}$  1" x 7" x "W"**

\* Required only with Detail II

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

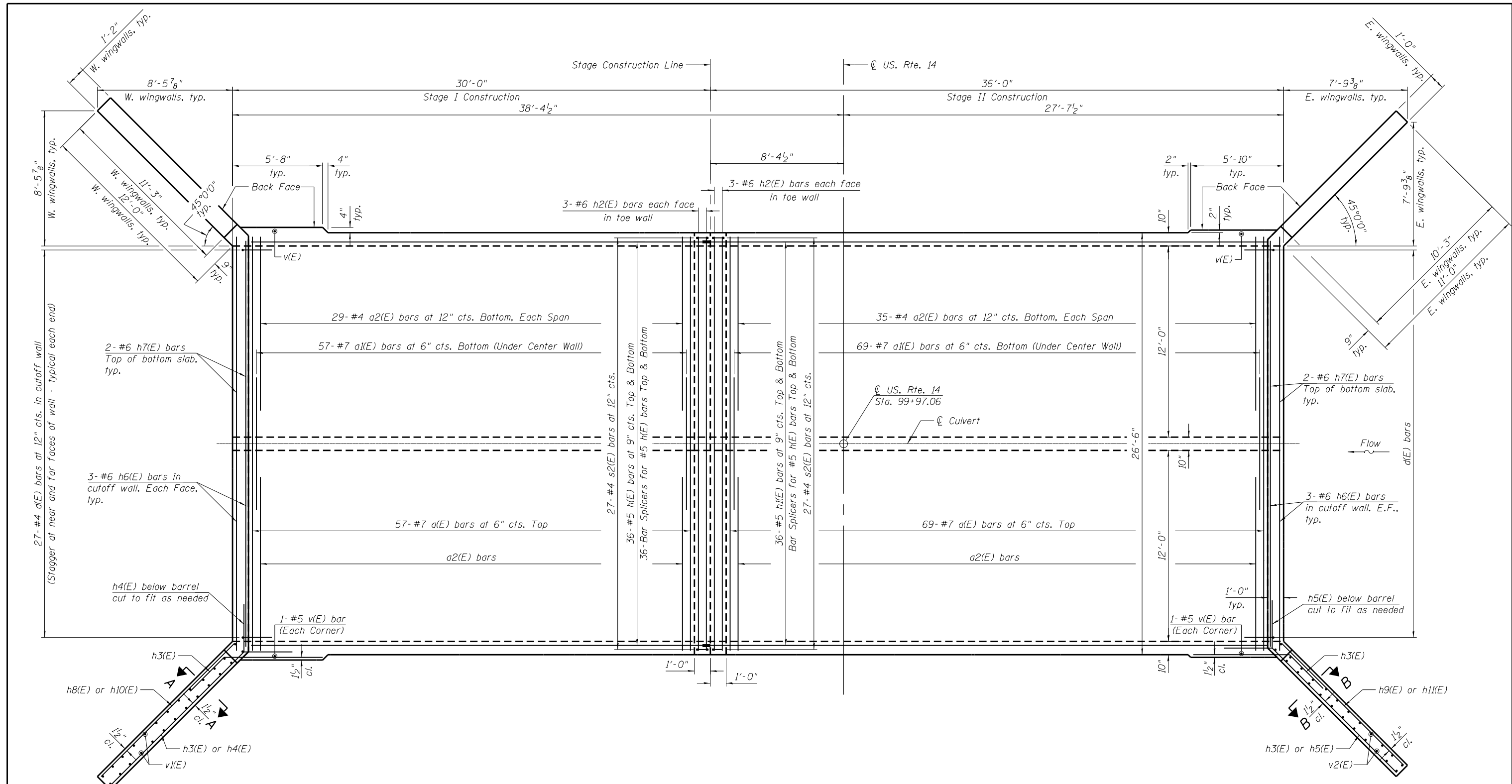
"W" = Top bars spacing + 4"

R-27

7-1-10

<b>HBM</b> ENGINEERING GROUP, LLC CONSULTING & DESIGN INSPECTION & TESTING RESEARCH & TESTING 4415 WEST HARRISON ST. SUITE 231 HILLSIDE, IL 60162 PHONE: (708) 236-0900 FAX: (708) 236-0901	USER NAME = mustafa.alobaidi FILE NAME = 0560086-60V25-004-TCB.dgn PLOT SCALE = N.T.S. PLOT DATE = 5/2/2014	DESIGNED - MAF CHECKED - MI DRAWN - MAF, PH CHECKED - MI, MAI	REVISED REVISED REVISED REVISED	<b>STATE OF ILLINOIS</b> <b>DEPARTMENT OF TRANSPORTATION</b>	<b>TEMPORARY CONCRETE BARRIER FOR STAGE CONSTRUCTION</b> <b>STRUCTURE NO. 056-0086</b>	F.A.P. RTE. = 066 SECTION = 21B-R COUNTY = MCHENRY CONTRACT NO. 60V25	TOTAL SHEETS = 40 SHEET NO. = 24		
						SHEET NO. S-4 OF 11 SHEETS	ILLINOIS FED. AID PROJECT		



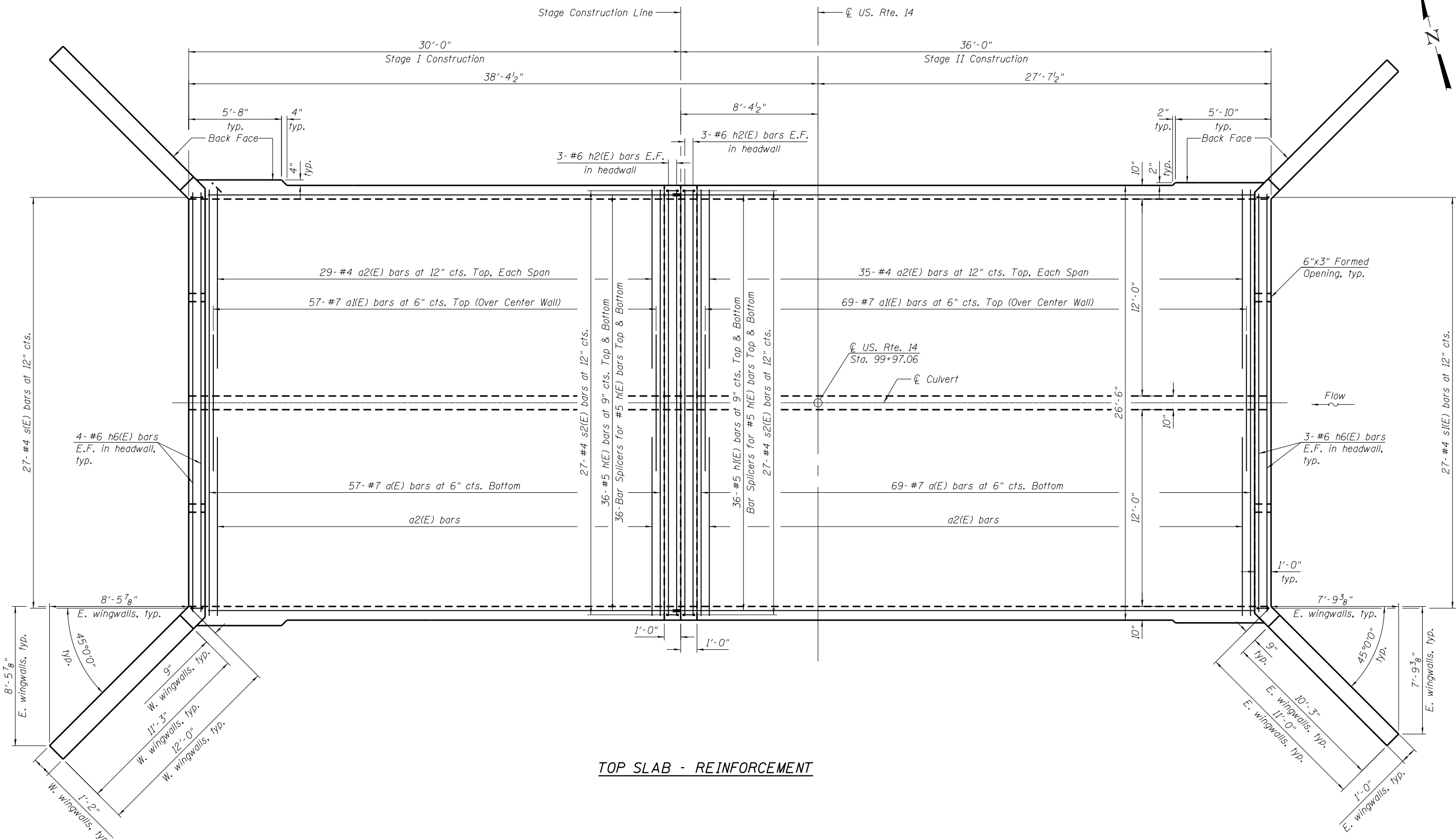


**BOTTOM SLAB - REINFORCEMENT**

**NOTES:**

1. For Bill of Material and bar diagrams, see Sheet S-8.
2. For top slab reinforcement, see Sheet S-6.
3. For wingwall reinforcement, see Sheet S-7.
4. For culvert sections and details, see Sheets S-7 and S-8.

<b>HBM</b> ENGINEERING GROUP, LLC CONSULTING & DESIGN INSPECTION & RATING RESEARCH & TESTING	4415 WEST HARRISON ST. SUITE 231 HILLSIDE, IL 60162 PHONE: (708) 236-0900 FAX: (708) 236-0901	USER NAME = mustafa.alobaidi FILE NAME = 0560086-60V25-005-Bott Slab Dtl.dgn PLOT SCALE = N.T.S. PLOT DATE = 5/2/2014	DESIGNED - MAF CHECKED - MI DRAWN - MAF, PH CHECKED - MI, MAI	REVISED REVISED REVISED REVISED	<b>STATE OF ILLINOIS          DEPARTMENT OF TRANSPORTATION</b>	<b>CULVERT PLAN BOTTOM SLAB DETAILS          STRUCTURE NO. 056-0086</b>	F.A.P. RTE. 066	SECTION 21B-R	COUNTY MCHENRY	TOTAL SHEETS 40	SHEET NO. 25	
	SHEET NO. S-5 OF 11 SHEETS						CONTRACT NO. 60V25					
	ILLINOIS FED. AID PROJECT											



**NOTES:**

1. For Bill of Material and bar diagrams, see Sheet S-8.
2. For top slab reinforcement, see Sheet S-6.
3. For wingwall reinforcement, see Sheet S-7.
4. For culvert sections and details, see Sheets S-7 and S-8.

**HBM**  
ENGINEERING GROUP, LLC  
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INSPECTION & TESTING  
RESEARCH & TESTING

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PHONE: (708) 236-0900  
FAX: (708) 236-0901

USER NAME = mustafa.alobaidi  
FILE NAME = 0560086-60V25-006-Top Slab Dtl.dgn  
PLOT SCALE = N.T.S.  
PLOT DATE = 5/2/2014

DESIGNED - MAF  
CHECKED - MI  
DRAWN - MAF, PH  
CHECKED - MI, MAI

REVISED  
REVISED  
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REVISED

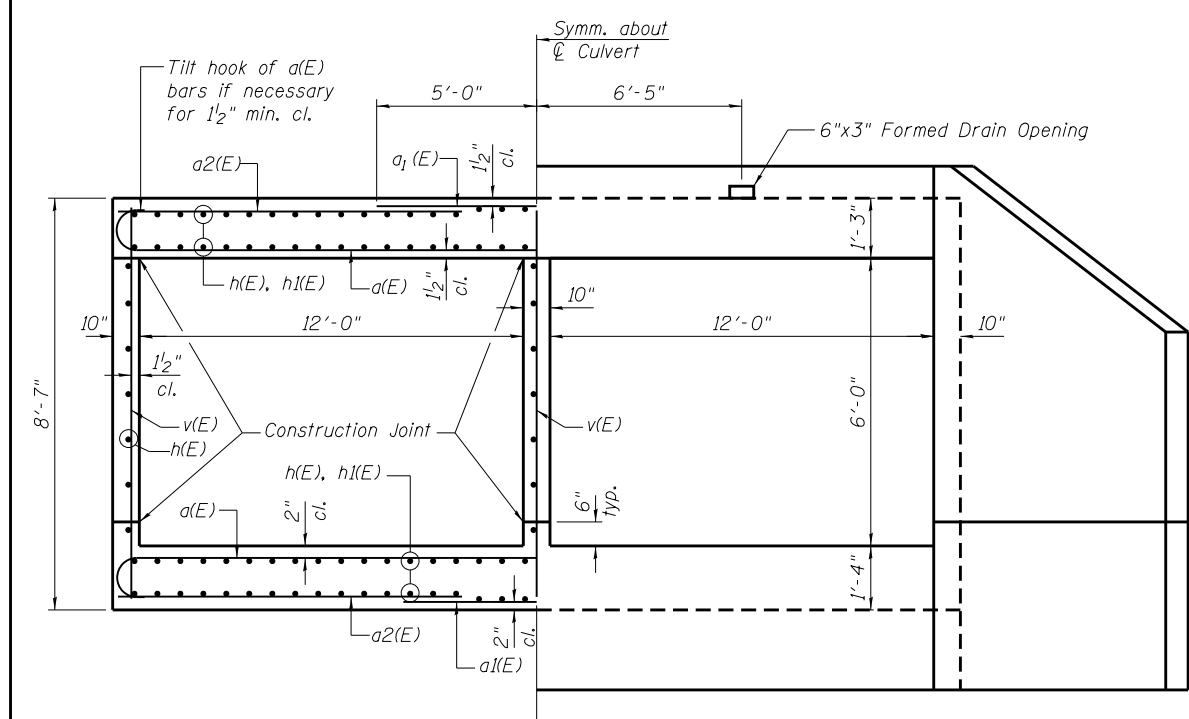
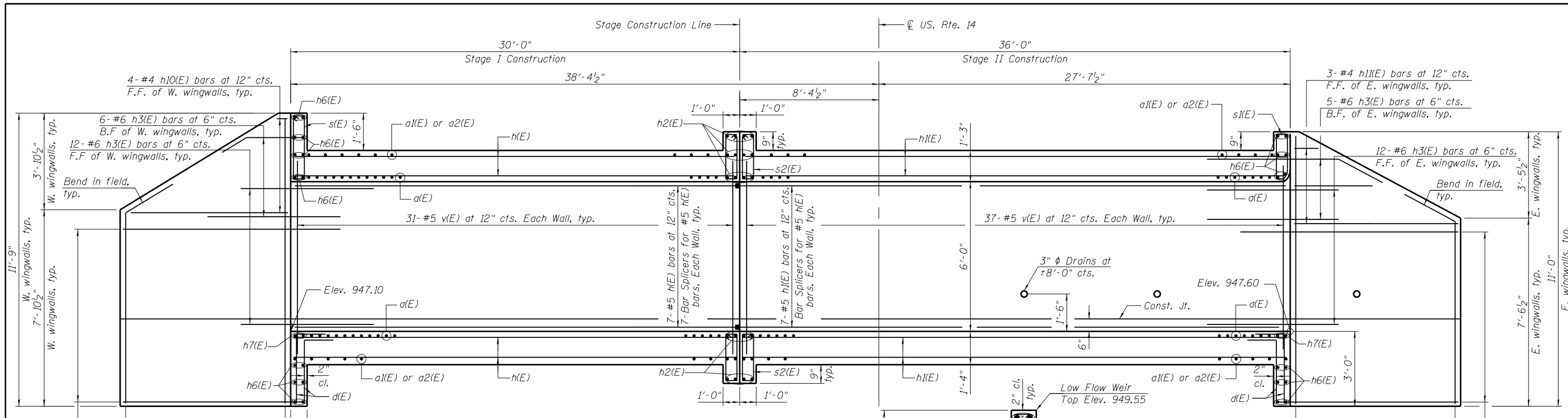
**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

**CULVERT PLAN TOP SLAB DETAILS  
STRUCTURE NO. 056-0086**

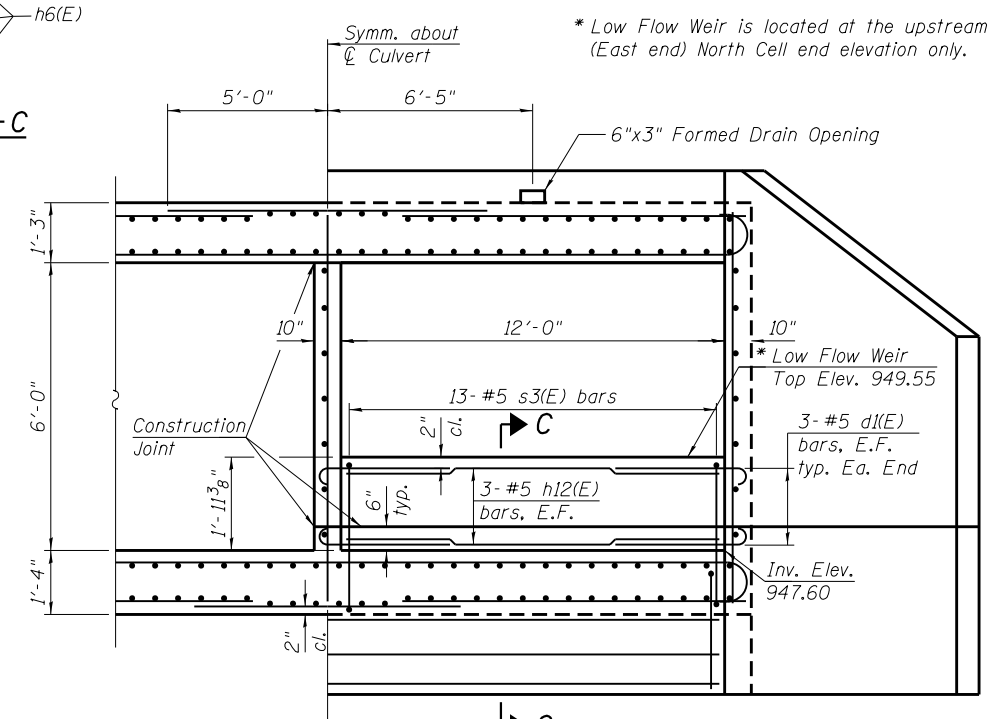
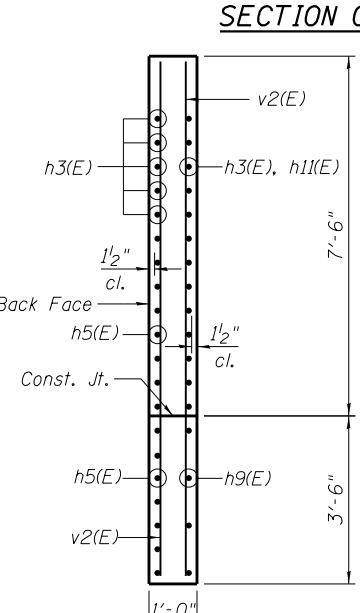
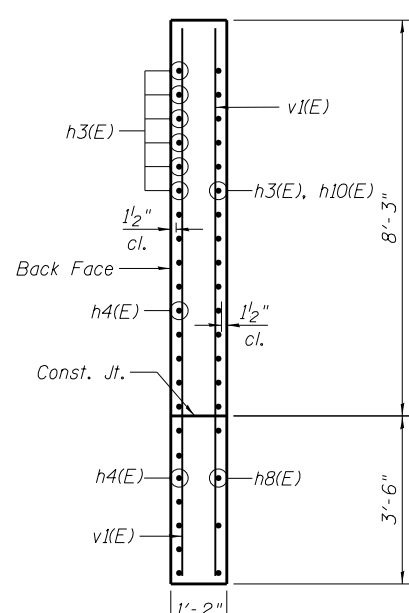
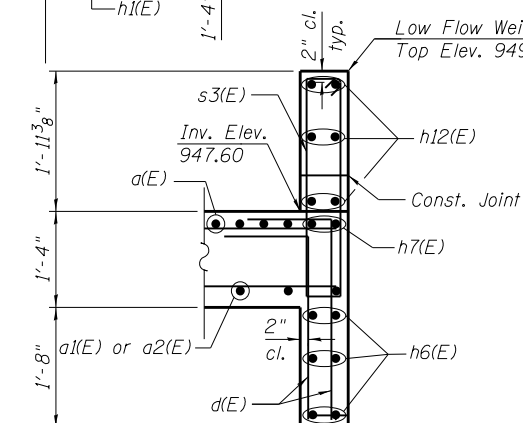
SHEET NO. S-6 OF 11 SHEETS

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
066	21B-R	MCHENRY	40	26
CONTRACT NO. 60V25				

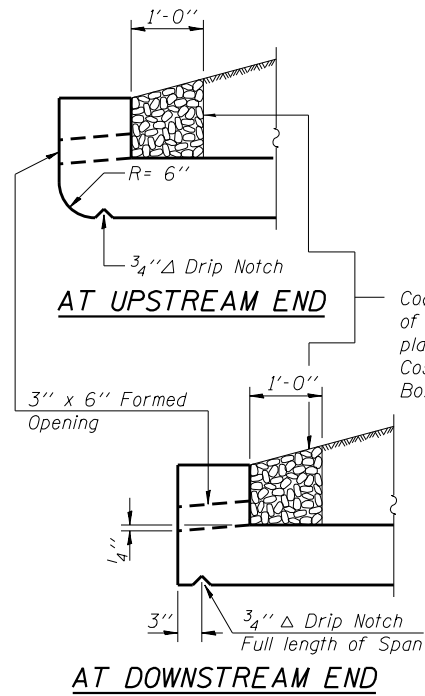
ILLINOIS FED. AID PROJECT



**LONGITUDINAL SECTION**

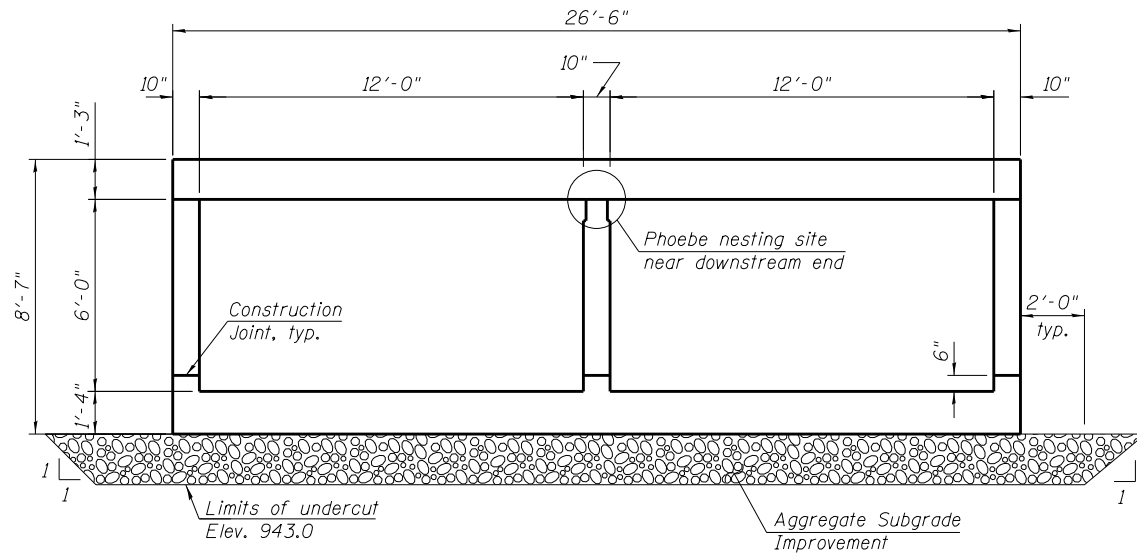


\* Low Flow Weir is located at the upstream (East end) North Cell end elevation only.

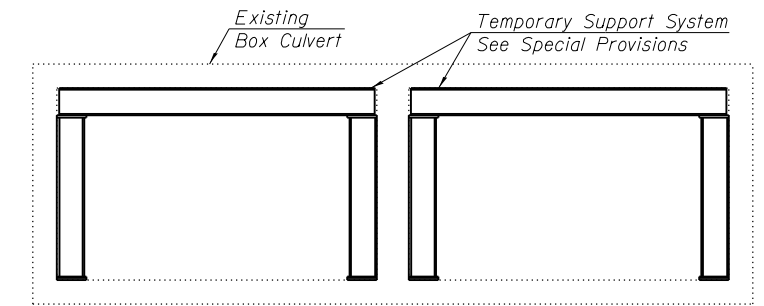


**DRAIN DETAIL**

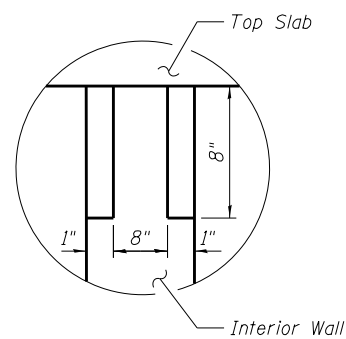
Coarse aggregate full length of both headwalls. To be placed by Grading Contractor. Cast included with Concrete Box Culverts.



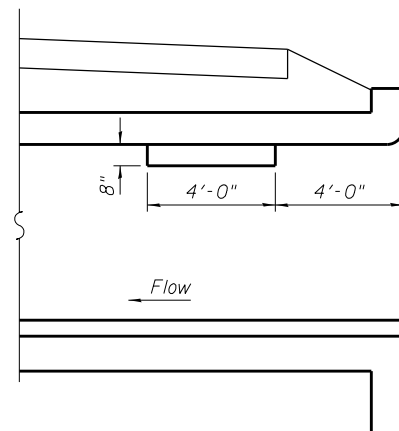
**SECTION THRU BARREL**



**SECTION THRU EXISTING CULVERT TEMPORARY SUPPORT SYSTEM**



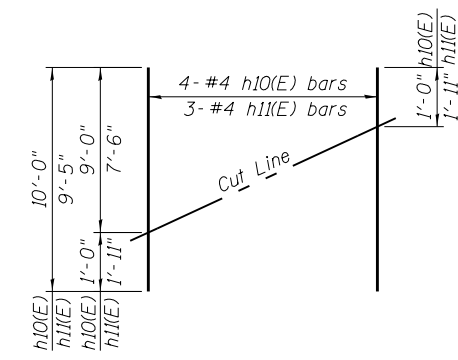
**NOTCH DETAIL**



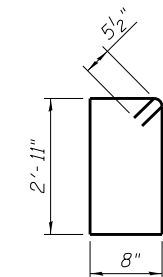
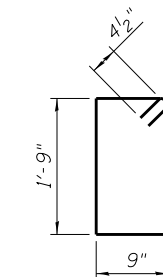
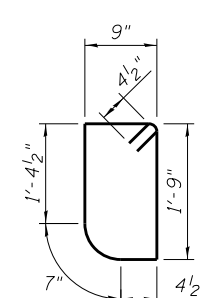
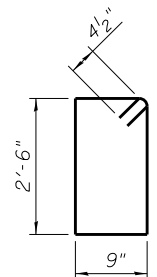
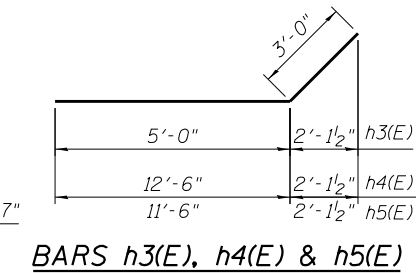
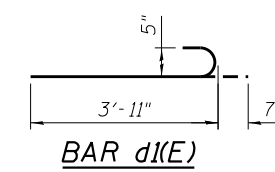
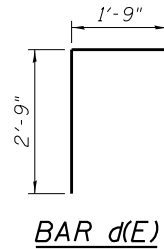
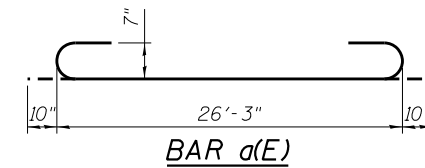
**LONGITUDINAL SECTION**

**PHOEBE NESTING SITE**

(Near downstream end)

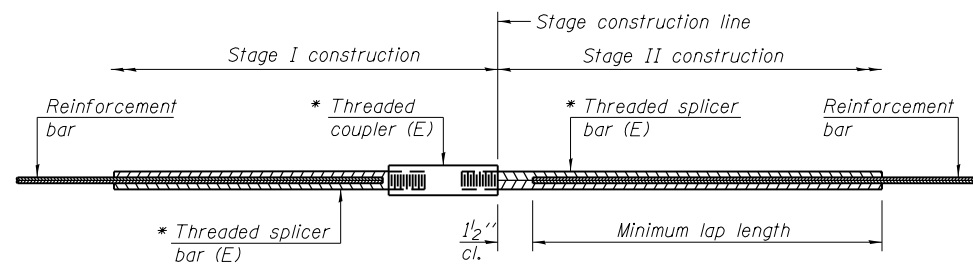


Order h10(E) & h11(E) full length. Cut as shown and use remainder of bars in the similar wingwall.



**BILL OF MATERIAL**

Bar	No.	Size	Length	Shape
a(E)	252	#7	27'-11"	
a1(E)	252	#7	10'-0"	
a2(E)	256	#4	10'-9"	
d(E)	54	#4	4'-6"	
d1(E)	12	#5	4'-6"	
h(E)	165	#5	29'-9"	
h1(E)	165	#5	35'-9"	
h2(E)	16	#6	26'-3"	
h3(E)	70	#6	8'-0"	
h4(E)	32	#8	15'-6"	
h5(E)	30	#8	14'-6"	
h6(E)	26	#6	26'-0"	
h7(E)	4	#6	26'-0"	
h8(E)	16	#4	11'-9"	
h9(E)	16	#4	10'-9"	
h10(E)	4	#4	10'-0"	
h11(E)	3	#4	9'-5"	
h12(E)	6	#5	11'-8"	
s(E)	27	#4	7'-3"	
s1(E)	27	#4	5'-7"	
s2(E)	108	#4	5'-9"	
s3(E)	13	#5	8'-1"	
v(E)	208	#5	8'-4"	
v1(E)	52	#4	11'-6"	
v2(E)	48	#4	10'-9"	
Reinforcement Bars, Epoxy Coated		POUND		41,620
Concrete Box Culverts		CU YD		233.6
Steel Plate Beam Guardrail, Attached to Structures		FOOT		62.5
Temporary Support System		L SUM		1



**STANDARD BAR SPLICER ASSEMBLY**

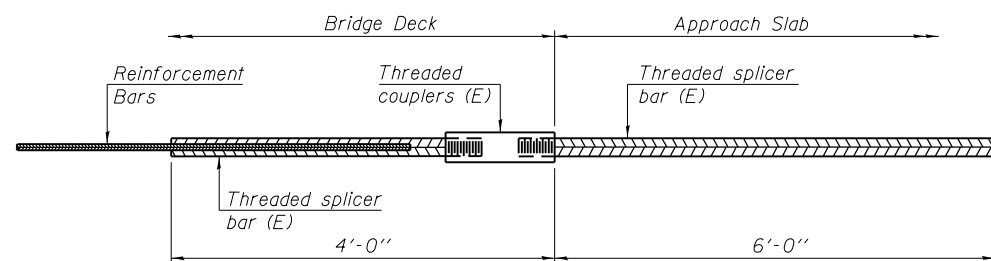
Minimum Lap Lengths						
Bar size to be spliced	Table 1	Table 2	Table 3	Table 4	Table 5	Table 6
3, 4	1'-5"	1'-11"	2'-1"	2'-4"	2'-7"	2'-11"
5	1'-9"	2'-5"	2'-7"	2'-11"	3'-3"	3'-8"
6	2'-1"	2'-11"	3'-1"	3'-6"	3'-10"	4'-5"
7	2'-9"	3'-10"	4'-2"	4'-8"	5'-2"	5'-10"
8	3'-8"	5'-1"	5'-5"	6'-2"	6'-9"	7'-8"
9	4'-7"	6'-5"	6'-10"	7'-9"	8'-7"	9'-8"

- Table 1: Black bar, 0.8 Class C
- Table 2: Black bar, Top bar lap, 0.8 Class C
- Table 3: Epoxy bar, 0.8 Class C
- Table 4: Epoxy bar, Top bar lap, 0.8 Class C
- Table 5: Epoxy bar, Class C
- Table 6: Epoxy bar, Top bar top, Class C

Threaded splicer bar length = min. lap length + 1/2" + thread length

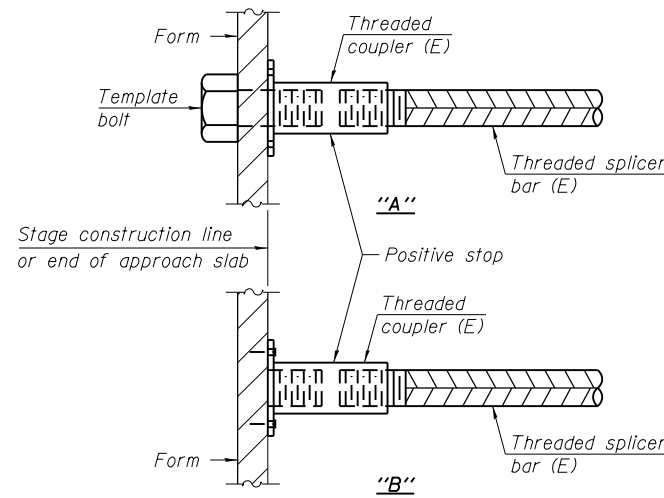
\* Epoxy not required on Bar Splicer Assembly components used in conjunction with black bars.

Location	Bar size	No. assemblies required	Table for minimum lap length
Top of bottom slab	#5	36	Table 5
Bottom of bottom slab	#5	36	Table 5
Top of top slab	#5	36	Table 5
Bottom of top slab	#5	36	Table 5
North Wall	#5	7	Table 5
South Wall	#5	7	Table 5
Center Wall	#5	7	Table 5



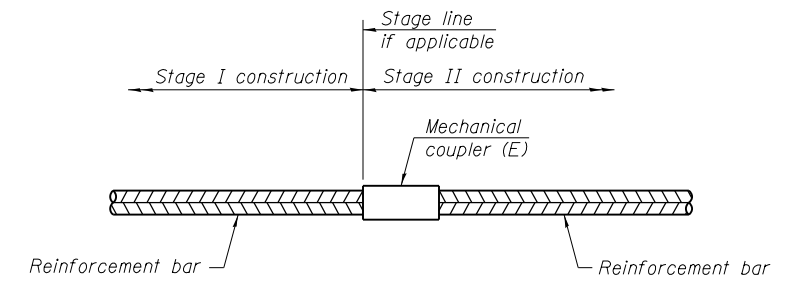
**BAR SPLICER ASSEMBLY FOR #5 BAR ON INTEGRAL OR SEMI-INTEGRAL ABUTMENTS**

No. required =



**INSTALLATION AND SETTING METHODS**

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

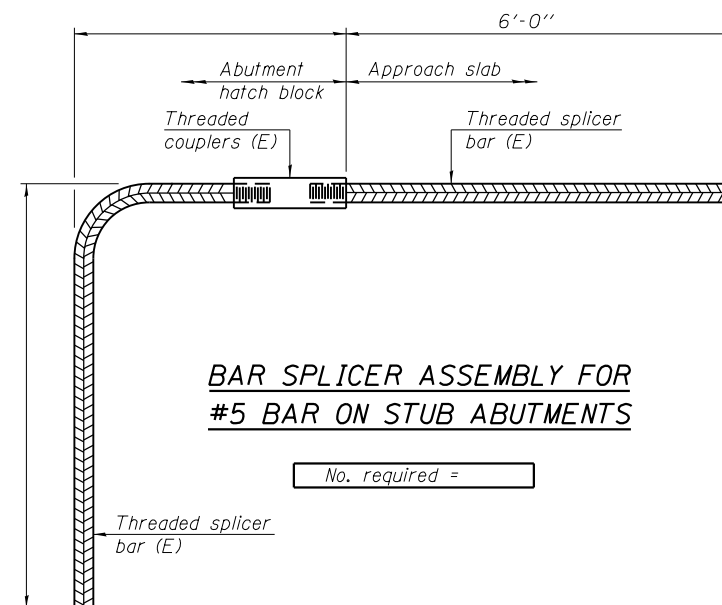


**STANDARD MECHANICAL SPLICER**

Location	Bar size	No. assemblies required

**BILL OF MATERIAL**

ITEM	UNIT	TOTAL
Bar Splicers	Each	165



**BAR SPLICER ASSEMBLY FOR #5 BAR ON STUB ABUTMENTS**

No. required =

**NOTES**

- Splicer bars shall be deformed with threaded ends and have a minimum 60 ksi yield strength.
- All reinforcement shall be lapped and tied to the splicer bars.
- Bar splicer assemblies shall be epoxy coated according to the requirements for reinforcement bars. See Section 508 of the Standard Specifications.
- See approved list of bar splicer assemblies and mechanical splicers for alternatives.

BSD-1

1-27-12

**HBM**  
ENGINEERING GROUP, LLC  
CONSULTING & DESIGN  
INSPECTION & TESTING  
RESEARCH & TESTING

4415 WEST HARRISON ST.  
SUITE 231  
HILLSIDE, IL 60162  
PHONE: (708) 236-0900  
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USER NAME = mustafa.alobaidi  
FILE NAME = 0560086-60V25-009-Mech Splic Dtls.dgn  
PLOT SCALE = N.T.S.  
PLOT DATE = 5/2/2014

DESIGNED - MAF  
CHECKED - MI  
DRAWN - MAF, PH  
CHECKED - MI, MAI

REVISED  
REVISED  
REVISED  
REVISED

STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION

BAR SPLICER ASSEMBLY AND MECHANICAL SPLICER DETAILS  
STRUCTURE NO. 056-0086

SHEET NO. 5-9 OF 11 SHEETS

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
066	21B-R	MCHENRY	40	29

CONTRACT NO. 60V25

ILLINOIS FED. AID PROJECT



# SOIL BORING LOG

Page 1 of 1

Date 12/14/07

ROUTE FAP 66 (US14) DESCRIPTION Over Lawrence Creek Tributary LOGGED BY M. Esposito  
 SECTION 21-G LOCATION NW 1/4, SEC. 13, TWP. 46N, RNG. 5E, 3<sup>rd</sup> PM  
 COUNTY McHenry DRILLING METHOD CME 750, 3.25" ID HSA HAMMER TYPE CME Automatic

STRUCT. NO. Station	BORING NO. Station	DEPTH (ft)	DIAMETER (in)	SOIL TYPE	MOISTURE (%)	SPT (blows)	UNCONFINED COMPRESSIVE STRENGTH (psi)
056-2001 (exist.) 99+97	CB-3 99+81			Surface Water Elev. 948.86 ft Stream Bed Elev. _____ ft Groundwater Elev.: First Encounter 947.0 ft Upon Completion 935.4 ft After _____ Hrs.			
		954.48		Aggregate Shoulder			
				Soft Black SILTY CLAY			
		951.98		Soft to Stiff Brown SANDY CLAY			
		946.98		Grades to Black			
				Encountered a Cobble @ Approx. 8.5 ft.			
				Stiff Brown SILTY CLAY			
		939.48		Loose Brown SILT			
		936.48					

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)



# SOIL BORING LOG

Page 1 of 1

Date 12/14/07

ROUTE FAP 66 (US14) DESCRIPTION Over Lawrence Creek Tributary LOGGED BY M. Esposito  
 SECTION 21-G LOCATION NW 1/4, SEC. 13, TWP. 46N, RNG. 5E, 3<sup>rd</sup> PM  
 COUNTY McHenry DRILLING METHOD CME 750, 3.25" ID HSA HAMMER TYPE CME Automatic

STRUCT. NO. Station	BORING NO. Station	DEPTH (ft)	DIAMETER (in)	SOIL TYPE	MOISTURE (%)	SPT (blows)	UNCONFINED COMPRESSIVE STRENGTH (psi)
056-2001 (exist.) 99+97	CB-2 100+15			Surface Water Elev. 948.86 ft Stream Bed Elev. _____ ft Groundwater Elev.: First Encounter 947.9 ft Upon Completion 944.8 ft After _____ Hrs.			
		956.76		Aggregate Shoulder			
				Loose Gray SILT (continued)			
		935.43		Grades to Silty LOAM			
				Medium Stiff to Stiff Brown SANDY CLAY			
				Encountered a Cobble @ Approx. 3.5 ft.			
				Grades w/some Gravel			
		931.43		Stiff to Very Stiff Gray SILTY CLAY			
				2 inch Sand Seam @ Approx 11.2 ft.			
		945.43		Loose to Medium Dense Brown Coarse SAND			
				Grades to Fine			
		939.43		Loose Gray SILT			
				Grades to Brown			

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)



**Illinois Department of Transportation**  
Division of Highways  
IDOT

# SOIL BORING LOG

Page 1 of 1

Date 12/19/07

ROUTE FAP 66 (US14) DESCRIPTION Over Lawrence Creek Tributary LOGGED BY M. Esposito

SECTION 21-G LOCATION NW 1/4, SEC. 13, TWP. 46N, RNG. 5E, 3<sup>rd</sup> PM

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

STRUCT. NO. 056-2001 (exist.)  
Station 99+97

BORING NO. CB-1  
Station 100+23  
Offset 30.00ft LL CL  
Ground Surface Elev. 951.86 ft

DEPTH H S	B L O W S	U C S Qu	M O I S T	Surface Water Elev. <u>948.86</u> ft Stream Bed Elev. _____ ft	D E P T H	B L O W S	U C S Qu	M O I S T	Groundwater Elev.: First Encounter <u>944.4</u> ft Upon Completion _____ ft After _____ Hrs.
			24.0	Black SILTY CLAY					Soft Brown SANDY CLAY (continued)
						1			
						2	0.5	22.0	
						3	B		
				Encountered a Cobble @ Approx. 3.0 ft.					
			20.0			3			Stiff Brown SILTY CLAY
						5	1.5	14.0	
						5	B		1 inch Sand Seam @ Approx 23.2 ft.
				Soft to Medium Stiff Brown SILTY CLAY					
						3			
			14.0			6	1.8	13.0	
						8	B		
				Grades w/more Silt 2 inch Sand Seam @ Approx 8.5 ft.					
						3			
			15.0			4	1.8	13.0	
						9	B		
				1 inch Sand Seam @ Approx 10.5 ft.					
						3	0.3	16.0	
						3	B		Note: Very Poor Recovery
						3	2.5	19.0	
				Loose Dark Brown SILT					Grades to Very Stiff Encountered a Cobble @ Approx. 33.8 ft.
						3	P		
			32.0			4	1.8	12.0	
						11	B		End of Boring
				Grades w/more Clay					
						1			
			17.0			2	0.4		
						3	B		
				Stiff Brown SANDY CLAY					
						2			
			21.0			4	1.2		
						5	B		
				Brown SANDY CLAY					

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

D 10r

BBS, from 137 (Rev. 8-99)

**HBM**  
ENGINEERING GROUP, LLC  
CONSULTING & DESIGN  
INSPECTION & TESTING  
RESEARCH & TESTING

USER NAME = mustafa.alobaidi  
FILE NAME = 0560086-60V25-011-Soil Boring Logs2.dgn  
PLOT SCALE = N.T.S.  
PLOT DATE = 5/2/2014

DESIGNED - MAF  
CHECKED - MI  
DRAWN - MAF  
CHECKED - MI, MAI

REVISED  
REVISED  
REVISED  
REVISED

STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION

SOIL BORING LOGS II  
STRUCTURE NO. 056-0086

SHEET NO. S-11 OF 11 SHEETS

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
066	21B-R	MCHENRY	40	31
CONTRACT NO. 60V25			ILLINOIS FED. AID PROJECT	

# PART OF SEC. 13 AND 14, T46N, R5E OF THE 3RD P.M., MCHENRY COUNTY, ILLINOIS

PARCEL No.	OWNER	TOTAL HOLDINGS (ACRES)	PART TAKEN (ACRES)	PREVIOUSLY DEDICATED (ACRES)	REMAINDER	EASEMENT AREA (ACRES)	PERMANENT INDEX NUMBER	PURPOSE OF EASEMENT	ACQUIRED BY
1GF0001PE	DOMENELLA FAMILY LIMITED PARTNERSHIP NO. 2	114.805	N/A	1.507	114.805	0.046	01-13-100-004	PERMANENT	
1GF0001TE1						0.119	01-13-200-002	TEMPORARY	
1GF0001TE2						0.112	01-13-200-004	TEMPORARY	
1GF0002PE	LEONARD BEEISTRA, AS TRUSTEE UNDER DECLARATION OF TRUST DATED JULY 5, 2000 KNOWN AS THE LEONARD BEEISTRA REVOCABLE TRUST AS TO AN UNDIVIDED 1/2 INTEREST AND MARION R. BEEISTRA, AS TRUSTEE UNDER DECLARATION OF TRUST DATED JULY 5, 2000 KNOWN AS THE MARION R. BEEISTRA REVOCABLE TRUST AS TO AN UNDIVIDED 1/2 INTEREST	228.113	N/A	1.541	228.113	0.046	01-13-100-007	PERMANENT	
1GF0002TE1						0.115	01-14-200-002	TEMPORARY	
1GF0002TE2						0.112	01-14-200-005	TEMPORARY	
							0.112	01-14-200-006	TEMPORARY

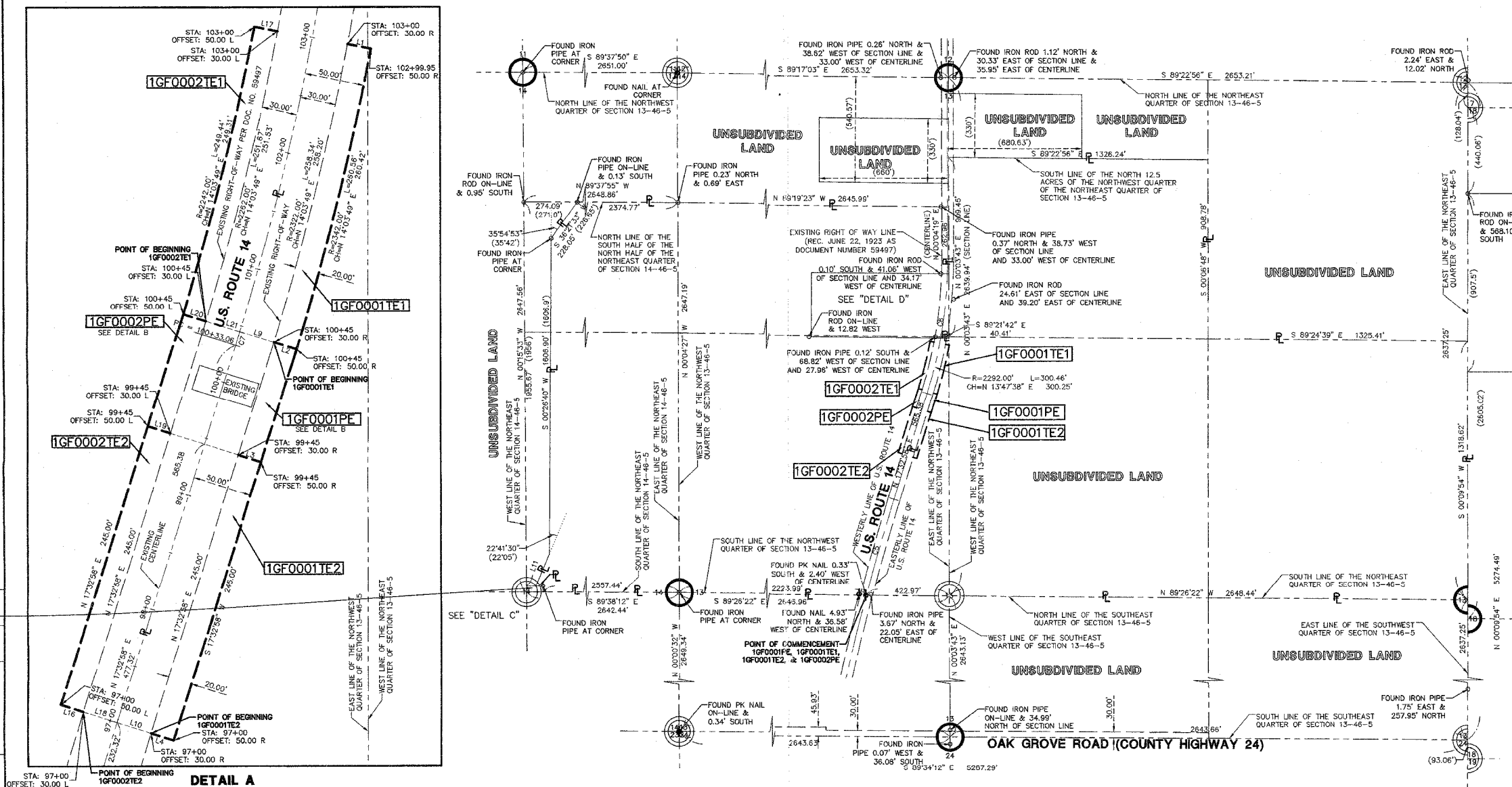
F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
066		MCHENRY	3	2

STA. 97+00 TO STA. 103+00  
FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT



### 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.
- THESE STAKES, IN CULTIVATED AREAS, REFERENCE FOUND OR SET MONUMENTATION.
- STAKING OF PROPOSED RIGHT OF WAY.
- STAKING OR PROPOSED RIGHT OF WAY IN CULTIVATED AREAS.
- PERMANENT SURVEY MARKER, I D O T STD. 2135 (TO BE SET BY OTHERS)
- RIGHT OF WAY STAKING PROPOSED TO BE SET.
- LIGHT STANDARD
- P.O.B. = POINT OF BEGINNING
- P.O.C. = POINT OF COMMENCEMENT



STATE OF ILLINOIS)  
COUNTY OF LAKE)

I, TIMOTHY J. MURPHY, DO HEREBY DECLARE THAT I HAVE SURVEYED THE PLAT OF HIGHWAYS SHOWN HEREON IN SECTIONS 13 AND 14, 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 18TH DAY OF DECEMBER, A.D., 2012.

*Timothy J. Murphy*  
ILLINOIS PROFESSIONAL LAND SURVEYOR No. 2870; EXPIRES NOVEMBER 30, 2014

FOR INFORMATION ONLY  
Plan Sheet 32 of 40



RECEIVED  
DEC 21 2012  
PLATS & LEGALS

IDOT SB22 - 3424 SHEET 1 IS A COVER SHEET AND IS NOT RECORDED  
MANHARD CONSULTING ENGINEERS • SURVEYORS • PLANNERS  
900 WOODLANDS PARKWAY VERNON HILLS, IL 60061  
PH: 847/834-5550 FAX: 847/654-0085

PLAT OF HIGHWAYS  
STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION  
US ROUTE 14 (FAP 066)

SECTION: AT LAWRENCE CREEK MCHENRY COUNTY  
PROJECT JOB NO. R-91-003-07  
STATION 97+00 TO STATION 103+00  
SCALE: 1" = 300' SHEET 2 OF 3

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

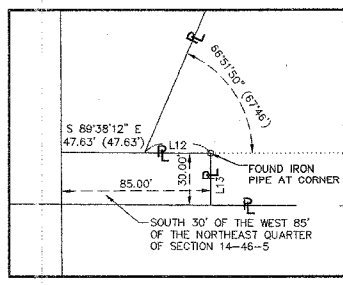
AS DOCUMENT NO.

REVISION DATE	DESCRIPTION	BY
12/18/12	REVISED OWNERS PER NEW TITLE COMMITMENT	TJM
06/18/08	REVISED CERTIFICATION	TJM
05/14/07	REVISED PER IDOT REVIEW	RYP
05/08/07	REVISED PER IDOT REVIEW	VB
05/01/07	REVISED PER IDOT REVIEW	VB
03/01/07	REVISED PER IDOT REVIEW	RYP

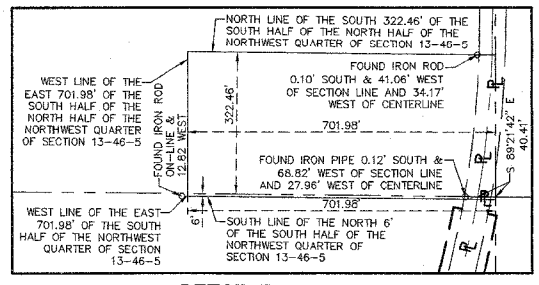
RECORDING: RECORDED ON

LINE	BEARING	LENGTH	(RECORD)
L1	S 79°07'25" E	20.00'	
L2	N 72°44'56" W	20.00'	
L3	S 72°27'02" E	20.00'	
L4	N 72°27'02" W	20.00'	
L5	S 72°44'56" E	20.00'	
L6	N 72°27'02" W	20.00'	
L7	N 72°27'02" W	20.00'	
L8	S 72°44'56" E	20.00'	
L9	S 72°44'56" E	30.00'	
L10	S 72°27'02" E	30.00'	
L11	S 23°08'10" W	178.00'	(178')
L12	S 89°38'12" E	37.37'	
L13	S 00°15'33" E	30.00'	
L14	N 72°27'02" W	30.00'	
L15	S 72°27'02" E	30.00'	
L16	N 72°27'02" W	20.00'	
L17	S 79°07'25" E	20.00'	
L18	N 72°27'02" W	30.00'	
L19	S 72°27'02" E	20.00'	
L20	N 72°44'56" W	20.00'	
L21	N 72°44'56" W	30.00'	

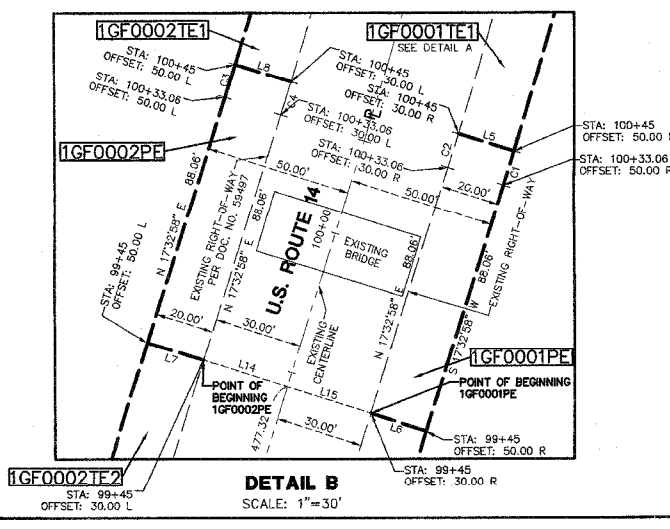
CURVE	RADIUS	LENGTH	CHORD	BEARING	CHORD
C1	2342.00'	12.20'	N 17°24'01" E	12.20'	
C2	2322.00'	12.10'	N 17°24'01" E	12.10'	
C3	2242.00'	11.68'	N 17°24'01" E	11.68'	
C4	2282.00'	11.78'	N 17°24'01" E	11.78'	
C5	11459.20'	505.89'	N 16°17'04" E	505.91'	
C6	2282.00'	699.15'	N 08°48'39" E	696.44'	
C7	2282.00'	11.95'	N 17°24'00" E	11.95'	



DETAIL C  
SCALE: 1"=50'



DETAIL D  
SCALE: 1"=200'



DETAIL A  
SCALE: 1"=50'

DETAIL B  
SCALE: 1"=30'

DETAIL C  
SCALE: 1"=50'

DETAIL D  
SCALE: 1"=200'

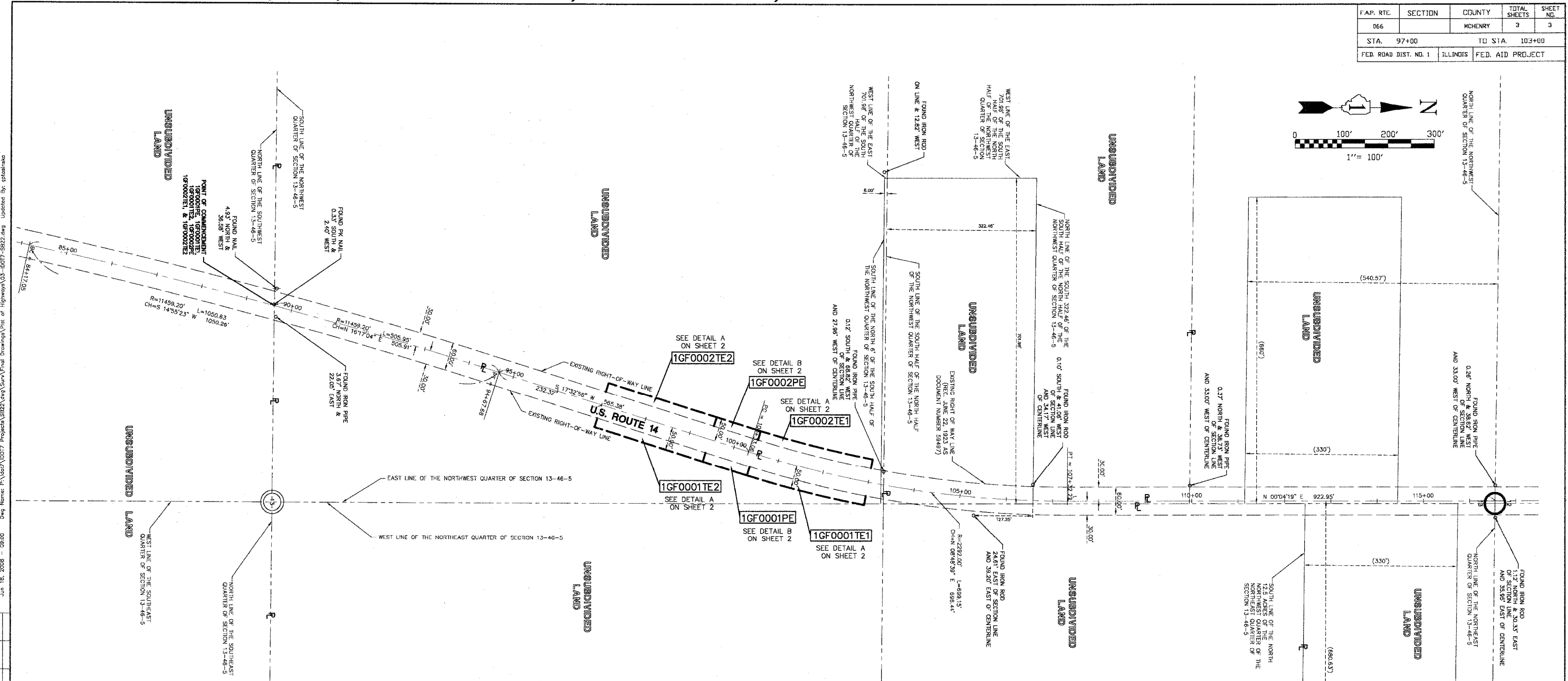
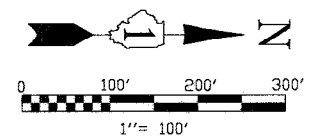
DATE	BY	MADE	CHECKED	INCH	NOTEBOOK	NO.

Dec 18, 2012 - Dwg Name: P:\id07\IDOT Projects\SB22\Lang\Surv\Plan Drawings\Plan of Highways\02-1007-SB22.dwg Updated By: gpcshank



**PART OF SEC. 13 AND 14, T46N, R5E OF THE 3RD P.M., MCHENRY COUNTY, ILLINOIS**

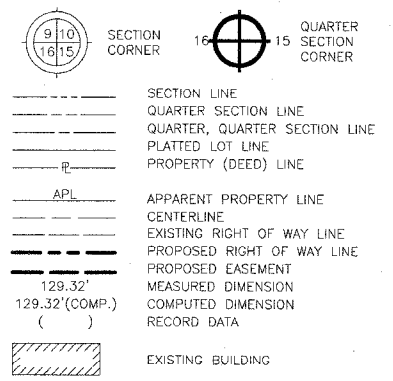
F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
066		MCHENRY	3	3
STA. 97+00		TO STA. 103+00		
FED. ROAD DIST. NO. 1		ILLINOIS	FED. AID PROJECT	



Jun 18, 2008 - 08:00  
 Proj Name: P:\1007\1007\1007\1007\Final Drawings\Plat of Highways\03-6007-5822.dwg Updated By: eobalrka

DATE	BY	MADE	CHECKED	INKED
R.O.W. PLAT	NOTEBOOK NO.			

**LEGEND**



- 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.
- M 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
- P.O.B. = POINT OF BEGINNING
- P.O.C. = POINT OF COMMENCEMENT

STATE OF ILLINOIS )  
 )SS  
 COUNTY OF LAKE )

I, TIMOTHY J. MURPHY, DO HEREBY DECLARE THAT I HAVE SURVEYED THE PLAT OF HIGHWAYS SHOWN HEREON IN SECTIONS 13 AND 14, 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 18<sup>TH</sup> DAY OF JUNE, A.D., 2008.

*Timothy J. Murphy*  
 ILLINOIS PROFESSIONAL LAND SURVEYOR No. 2870; EXPIRES NOVEMBER 30, 2008



**FOR INFORMATION ONLY**  
 Plan Sheet 33 of 40

1007 SB22 - 3424 SHEET 1 IS A COVER SHEET AND IS NOT RECORDED  
**MANHARD CONSULTING** ENGINEERS • SURVEYORS • PLANNERS  
 800 WOODLANDS PARKWAY VERNON HILLS, IL 60061  
 PH: 847/934-5530 FAX: 847/934-0905

**PLAT OF HIGHWAYS**  
 STATE OF ILLINOIS  
 DEPARTMENT OF TRANSPORTATION  
 USL ROUTE 14 (FAP 066)  
 SECTION: AT LAWRENCE CREEK MCHENRY COUNTY  
 PROJECT JOB NO. R-91-003-07  
 STATION 97+00 TO STATION 103+00  
 SCALE: 1" = 100' SHEET 3 OF 3

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

REVISION DATE	DESCRIPTION	BY
06/18/08	REVISED CERTIFICATION	TJM
05/08/07	REVISED PER IDOT REVIEW	VB
05/01/07	REVISED PER IDOT REVIEW	VB

RECORDING: RECORDED ON \_\_\_\_\_ AS DOCUMENT NO. \_\_\_\_\_

# EARTHWORK SCHEDULE

STAGE 1						STAGE 2					FINAL					
LOCATION	EARTH EXCAVATION	EARTH EXCAVATION ADJUSTED FOR SHRINKAGE (15%)	UNSUITABLE MATERIAL	EMBANKMENT	EARTHWORK BALANCE WASTE (+) OR SHORTAGE (-)	EARTH EXCAVATION	EARTH EXCAVATION ADJUSTED FOR SHRINKAGE (15%)	* UNSUITABLE MATERIAL	EMBANKMENT	EARTHWORK BALANCE WASTE (+) OR SHORTAGE (-)	EARTH EXCAVATION	EARTH EXCAVATION ADJUSTED FOR SHRINKAGE (15%)	UNSUITABLE MATERIAL	EMBANKMENT	EARTHWORK BALANCE WASTE (+) OR SHORTAGE (-)	* TOPSOIL EXCAVATION AND PLACEMENT
STA. 95+00 TO 96+00	18.15	15.43	0.00	0.00	15.43	24.26	20.62	0.00	0.00	20.62	0.00	0.00	0.00	0.00	0.00	42.00
STA. 96+00 TO 97+00	30.37	25.81	0.00	0.00	25.81	55.56	47.22	0.00	4.63	42.59	31.30	26.60	0.00	3.89	22.71	51.00
STA. 97+00 TO 97+23.12	5.74	4.88	0.00	0.00	4.88	16.36	13.90	0.00	1.07	12.83	20.12	17.10	0.00	0.90	16.21	0.00
STA. 97+23.13 TO 98+00	22.35	19.00	0.00	0.00	19.00	66.34	56.39	0.00	2.14	54.26	101.08	85.92	0.00	5.98	79.94	0.00
STA. 98+00 TO 98+59.04	21.32	18.12	0.00	3.56	14.56	62.32	52.97	0.00	2.84	50.13	101.35	86.15	0.00	12.57	73.58	0.00
STA. 98+59.04 TO 99+00	19.80	16.83	0.00	2.73	14.09	43.08	36.62	0.00	1.14	35.48	47.41	40.30	0.00	13.73	26.57	0.00
STA. 99+00 TO 99+97.06	27.86	23.68	0.00	0.00	23.68	45.11	38.35	110.00	0.72	37.63	19.23	16.35	0.00	19.41	-3.06	0.00
STA. 99+97.06 TO 100+00	3.01	2.55	0.00	0.00	2.55	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
STA. 100+00 TO 101+00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
STA. 101+00 TO 102+00	27.04	22.98	0.00	0.00	22.98	55.19	46.91	0.00	86.67	-39.76	150.19	127.66	0.00	0.00	127.66	0.00
STA. 102+00 TO 103+00	11.30	9.60	0.00	14.81	-5.21	47.96	40.77	0.00	16.67	24.10	57.59	48.95	0.00	0.00	48.95	0.00
STA. 103+00 TO 104+00	17.22	14.64	0.00	14.81	-0.18	34.26	29.12	0.00	1.48	27.64	33.15	28.18	0.00	0.00	28.18	0.00
STA. 104+00 TO 105+00	7.04	5.98	0.00	0.00	5.98	12.22	10.39	0.00	0.00	10.39	22.22	18.89	0.00	0.00	18.89	0.00
<b>TOTAL</b>	<b>211.19</b>	<b>179.51</b>	<b>0.00</b>	<b>35.92</b>	<b>143.59</b>	<b>462.66</b>	<b>393.26</b>	<b>110.00</b>	<b>117.35</b>	<b>275.91</b>	<b>583.64</b>	<b>496.10</b>	<b>0.00</b>	<b>56.48</b>	<b>439.61</b>	<b>93.00</b>

\* UNSUITABLE MATERIAL SHALL BE USED AS TOPSOIL WITHIN THE PROJECT LIMITS.  
THIS WORK WILL BE PAID FOR AT THE CONTRACT UNIT PRICE PER CUBIC YARD  
FOR TOPSOIL EXCAVATION AND PLACEMENT.

FILE NAME = P:\2011\ME11007\_Ver-Var-PhI\CADD\W006\_US14\_Shts\33A-D160\25-ear-thworkSCH.dgn  
 PLOT SCALE = 2.0000' = 1" = 100'  
 USER NAME = Millennium Professional Services



2600 Warrenville Road, Suite 203, Downers Grove, IL 60515  
 630.785.0110 voice, 630.839.2566 fax  
 www.mps-ill.com  
**MILLENNIA PROFESSIONAL SERVICES**

DESIGNED - TVN/MG	REVISED -
DRAWN - MG/JP	REVISED -
CHECKED - TVN	REVISED -
DATE - 6/19/2014	REVISED -

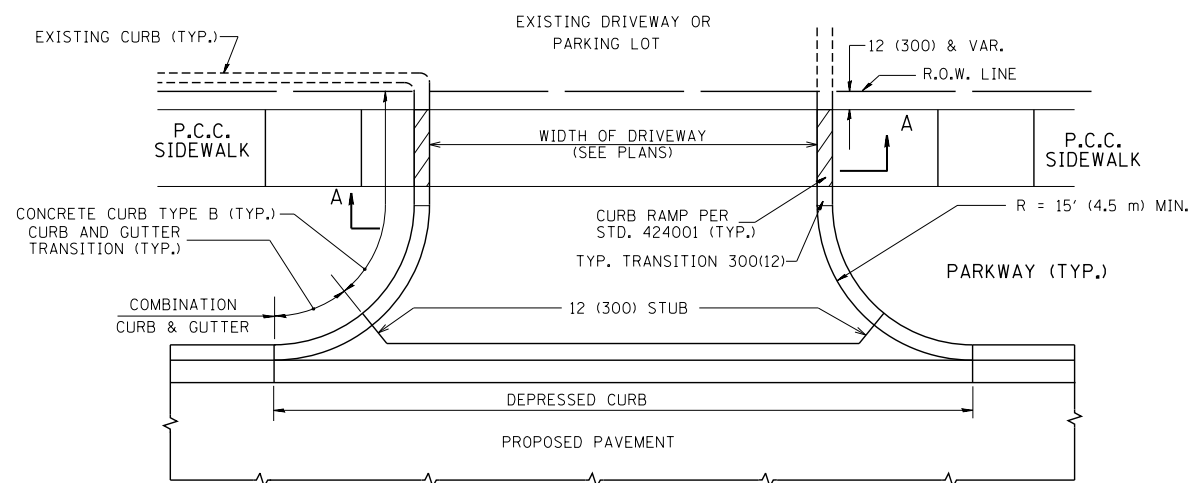
**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

**US ROUTE 14 OVER LAWRENCE CREEK TRIBUTARY  
EARTHWORK SCHEDULE**

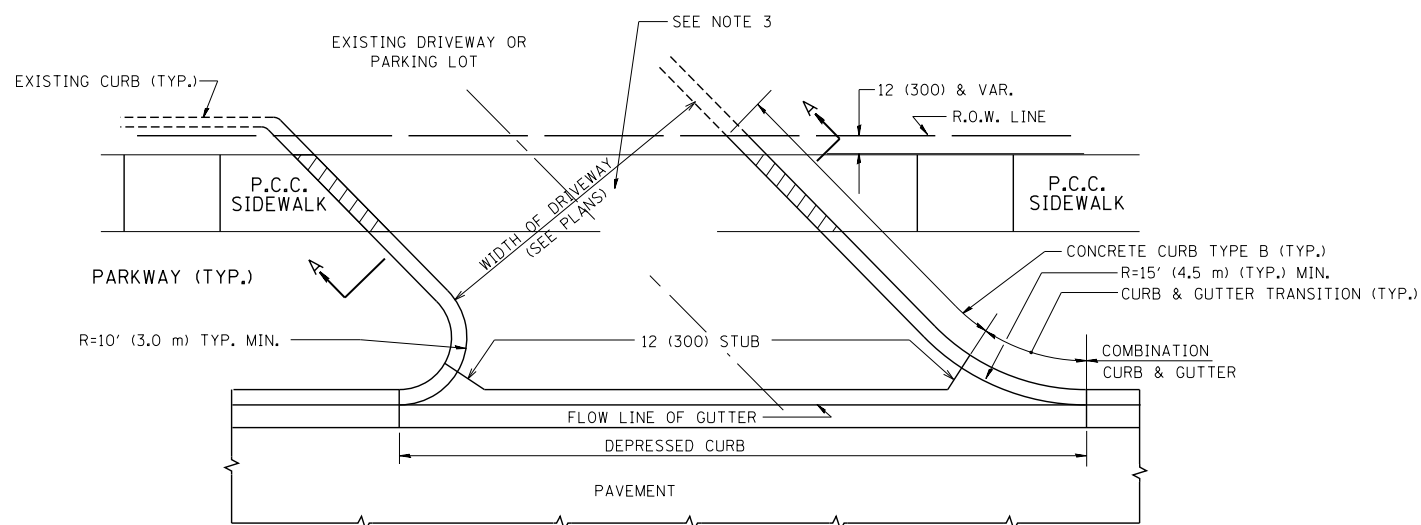
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F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
066	21B-R	MCHENRY	40	33A
FED. ROAD DIST. NO. 1   ILLINOIS FED. AID PROJECT			CONTRACT NO. 60V25	

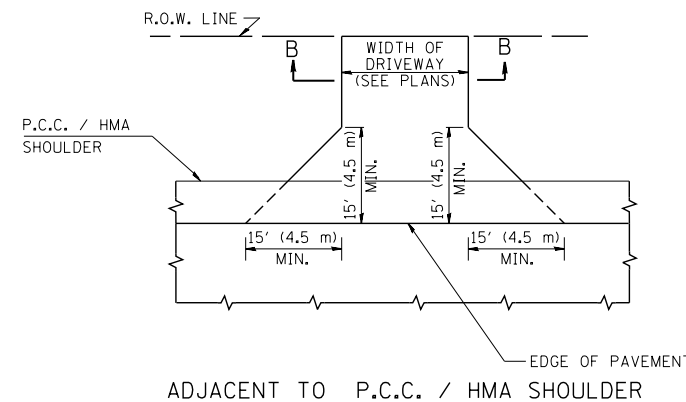
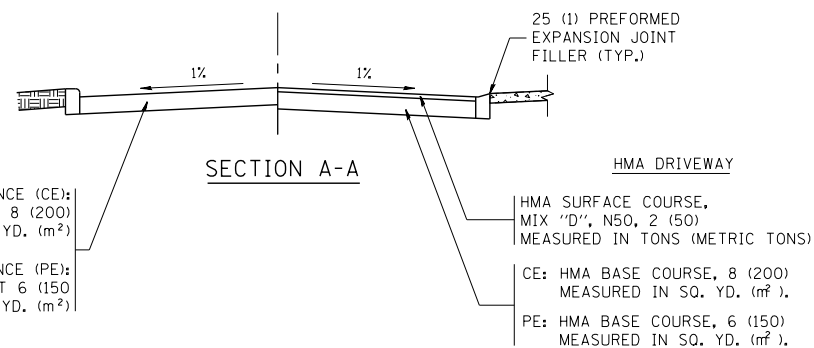
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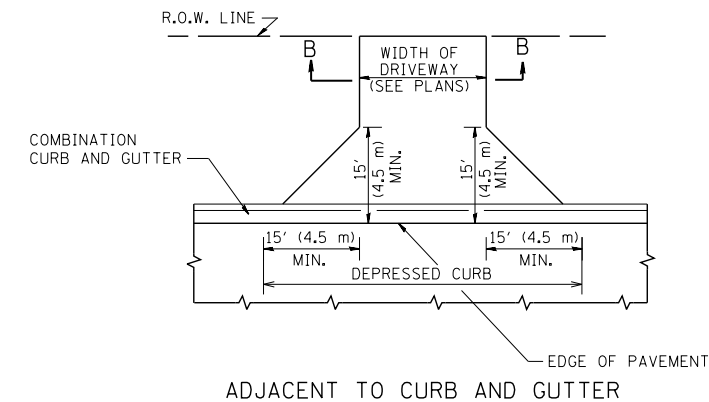
WITH CONCRETE CURB, TYPE B



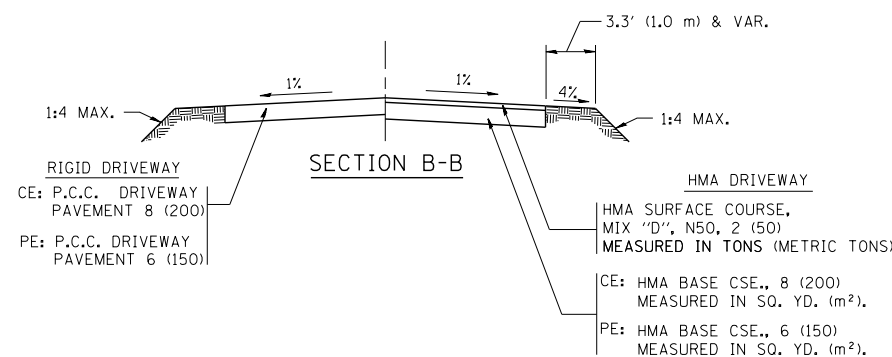
WITH CONCRETE CURB, TYPE B



ADJACENT TO P.C.C. / HMA SHOULDER



ADJACENT TO CURB AND GUTTER



RURAL FIELD ENTRANCE (FE)

**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 4 FEET (1.2 METERS) 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.

1 (25) 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.

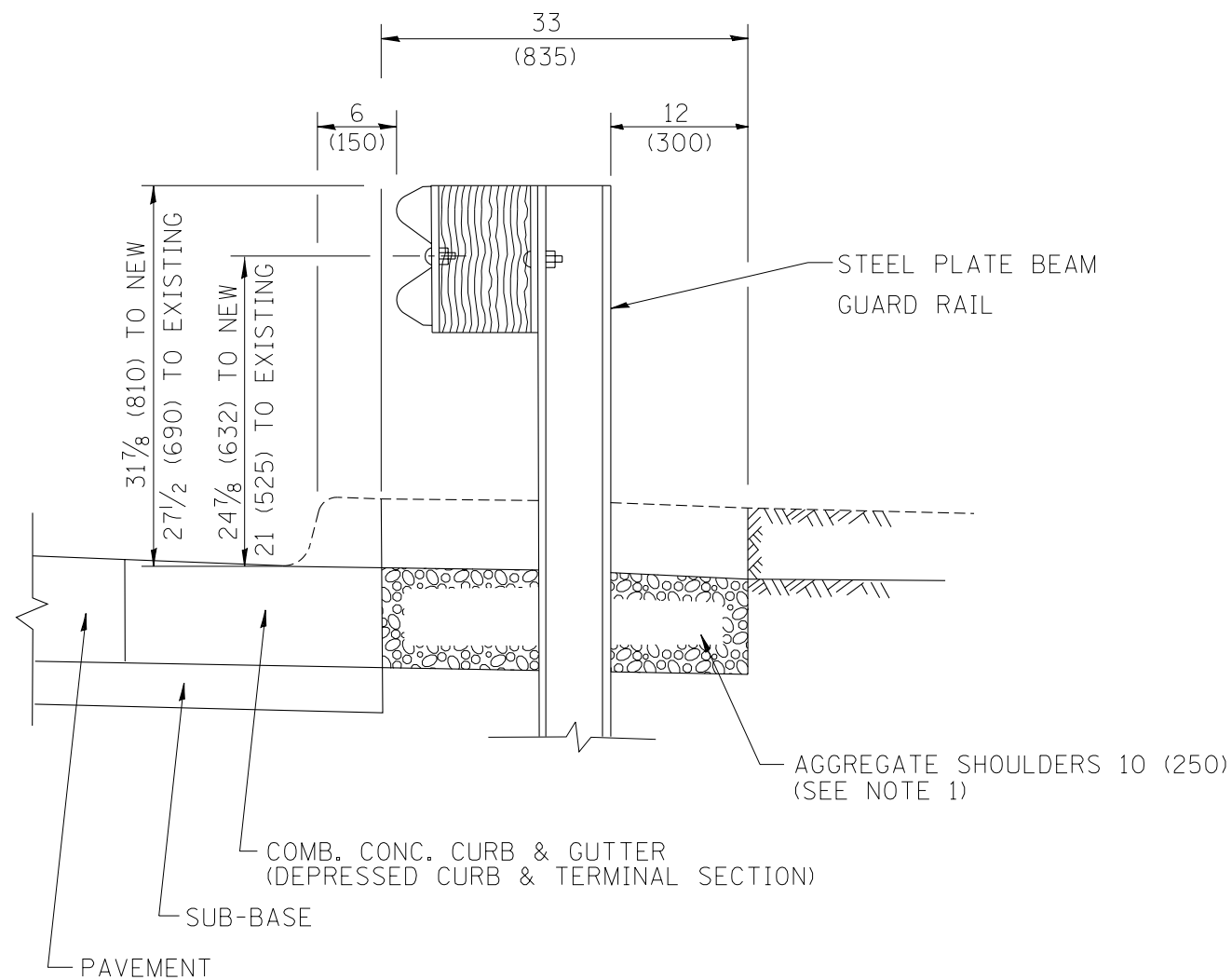
WHEN THE P.C.C. SIDEWALK EXTENDS THROUGH THE DRIVEWAY, THE THICKNESS OF THE SIDEWALK IN THE DRIVEWAY AREA SHALL BE THE SAME AS THE DRIVEWAY THICKNESS. SIDEWALK WILL BE PAID FOR AS P.C.C. SIDEWALK OF THE THICKNESS SPECIFIED. SIDEWALK CROSS SLOPE THRU DRIVEWAY AREA TO BE A MAXIMUM OF 1:50.

FILE NAME =	USER NAME = lryso	DESIGNED - R. SHAH	REVISED - P. LgFLUER 04-15-03
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	PLOT DATE = 9/6/2011	DATE - 11-04-95	REVISED - R. BORO 09-06-11

**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

<b>DRIVEWAY DETAILS - DISTANCE BETWEEN R.O.W. AND FACE OF CURB &amp; EDGE OF SHOULDER &gt;= 15' (4.5 m)</b>			
SCALE: NONE	SHEET NO. 1 OF 1 SHEETS	STA.	TO STA.

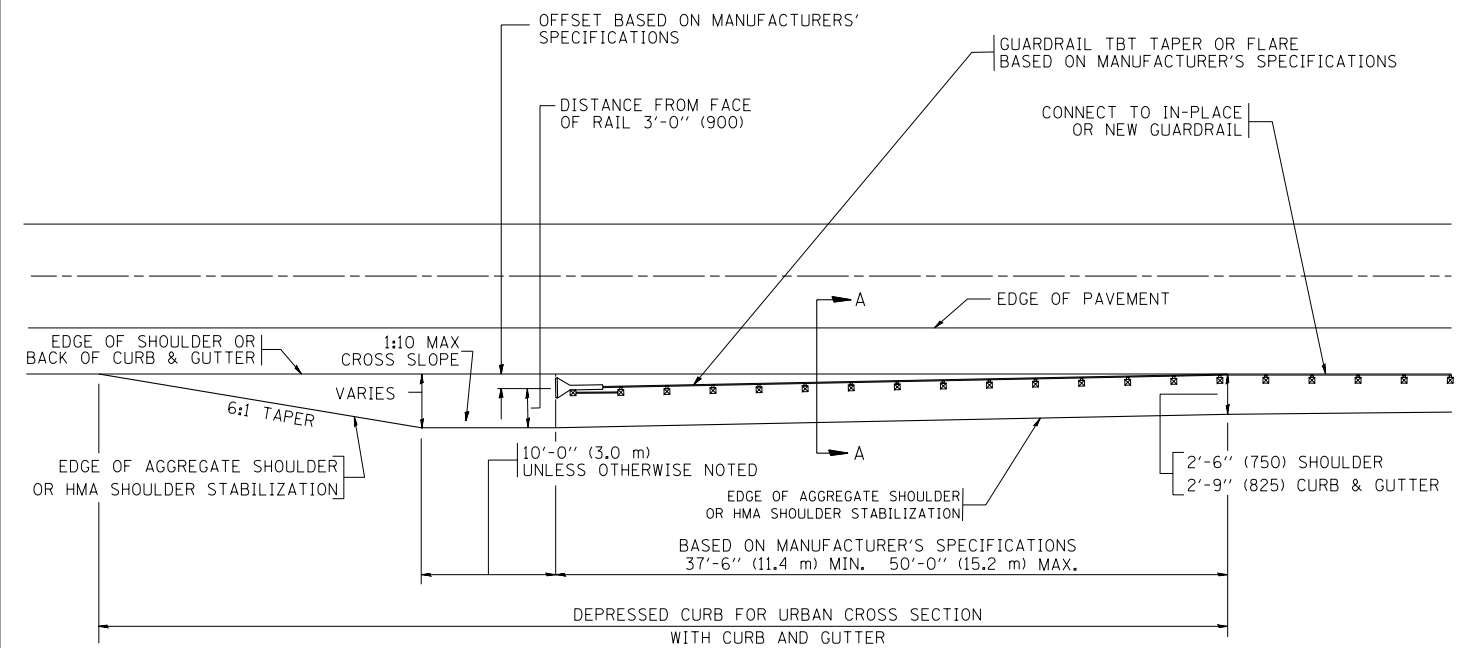
F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
066	21B-R	MCHENRY	40	34
<b>BD0156-07 (BD-01)</b>			CONTRACT NO.	
FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT				



SECTION A-A

- NOTES:
1. THE AGGREGATE SHOULDER, 10" OR HMA SHOULDER, 6" (IF REQUIRED) SHALL EXTEND UNDER THE TRAFFIC BARRIER TERMINAL.
  2. "EXISTING" GUARDRAIL REFERS TO CONNECTING TERMINAL SECTION TO GUARD RAILING PRIOR TO THE MIDWEST GUARDRAIL SYSTEM.
  3. THE CONTRACTOR SHALL VERIFY THE TYPE/HEIGHT OF GUARDRAIL IN-PLACE BEFORE ORDERING THE NEW TERMINAL SECTION. COST INCLUDED WITH THE COST OF THE TERMINAL. THE TERMINAL SECTION HEIGHT TO BE PLACED MUST MATCH THE HEIGHT OF THE IN-PLACE GUARDRAIL.

DETAILS FOR STEEL PLATE BEAM  
GUARD RAIL ADJACENT TO CURB AND GUTTER  
[FOR ROADWAY SPEED 35 MPH (60 kmh) TO 45 MPH (70 kmh)]



DEPRESSED CURB AND GUTTER AND  
SHOULDER TREATMENT AT TBT TY. 1 SPL.

BASIS OF PAYMENT: HMA SHOULDERS 6 (150) (IF REQUIRED) WILL BE PAID FOR AT THE CONTRACT UNIT PRICE PER SQUARE YARD (SQUARE METER) FOR "HOT-MIX ASPHALT SHOULDERS 6" (150 mm)".

STEEL PLATE BEAM GUARD RAIL AND TRAFFIC BARRIER TERMINAL, OF THE TYPE SPECIFIED WILL BE PAID FOR SEPARATELY.

TBT = TRAFFIC BARRIER TERMINAL  
ALL DIMENSIONS ARE IN INCHES (MILLIMETERS) UNLESS OTHERWISE SHOWN.

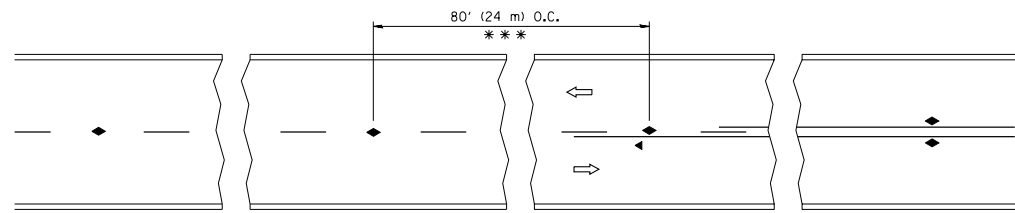
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	PLOT DATE = 9/21/2009	DATE - 09-22-90	REVISED - R. BORO 09-14-2009

STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION

DETAILS FOR DEPRESSED CURB & GUTTER AND  
SHOULDER TREATMENT AT TBT TY 1 SPL.

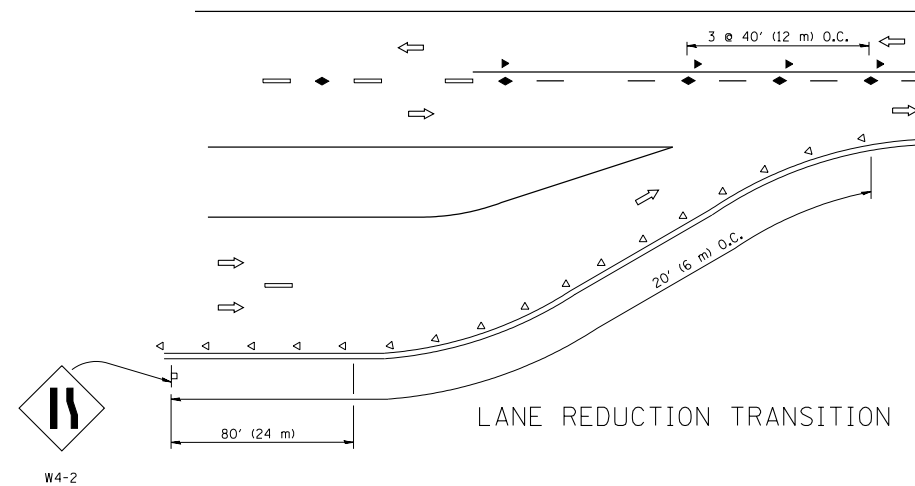
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F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
066	21B-R	MCHENRY	40	35
BD600-10 (BD 34)			CONTRACT NO. 60V25	
FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT				

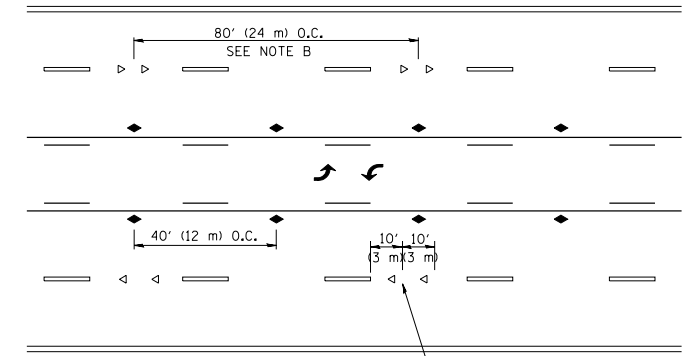


\*\*\* REDUCE TO 40' (12 m) O.C. ON CURVES WITH POSTED OR ADVISORY SPEED 45 M.P.H. (70 km/h) OR LESS.

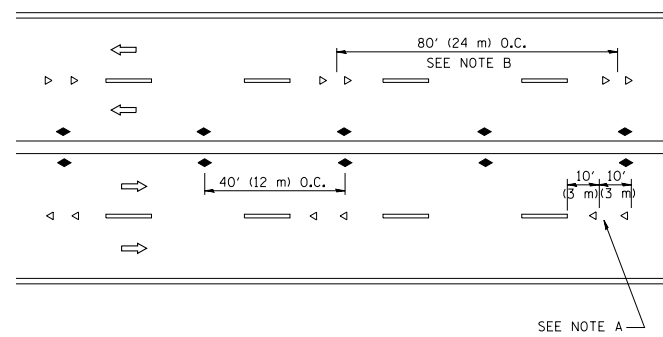
TWO-LANE/TWO-WAY



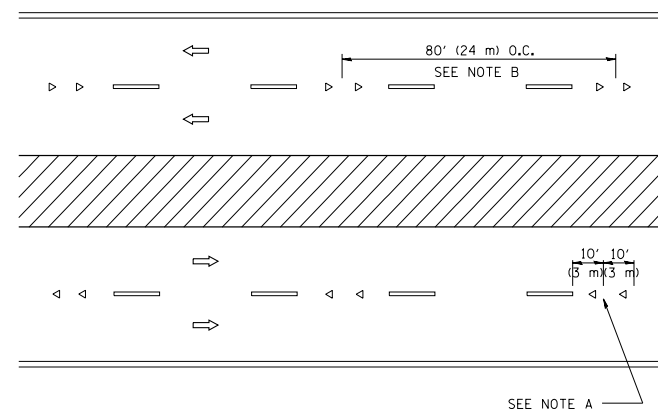
LANE REDUCTION TRANSITION



TWO-WAY LEFT TURN



MULTI-LANE/UNDIVIDED



MULTI-LANE/DIVIDED

GENERAL NOTES

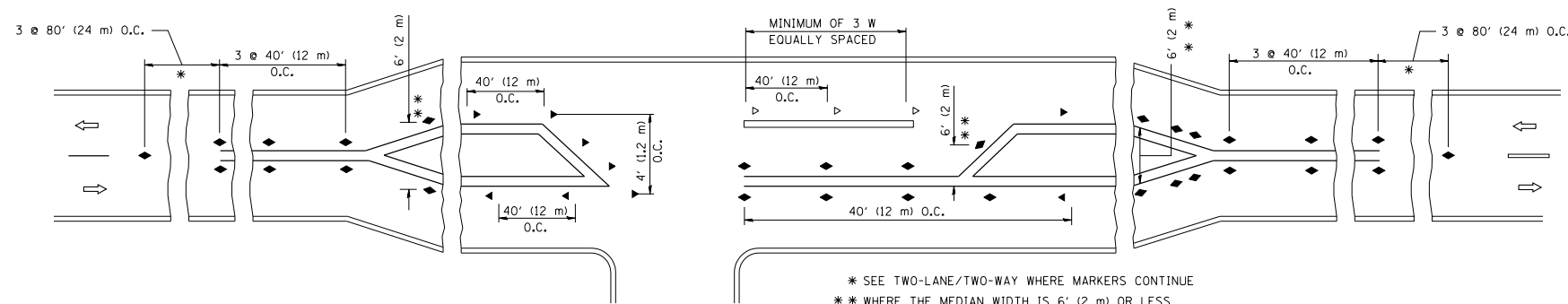
1. MARKERS USED WITH DASHED LINES SHALL BE CENTERED IN THE GAP BETWEEN SEGMENTS.
2. MARKERS USED ADJACENT TO SOLID LINES SHALL BE OFFSET 2 TO 3 (50 TO 75) TOWARD TRAFFIC AS SHOWN.
3. MARKERS THROUGH TANGENTS LESS THAN 500' (150 m) IN LENGTH BETWEEN CURVES SHALL BE INSTALLED AT THE LESSER OF THE TWO CURVE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

SYMBOLS

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

LANE MARKER NOTES

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



LEFT TURN

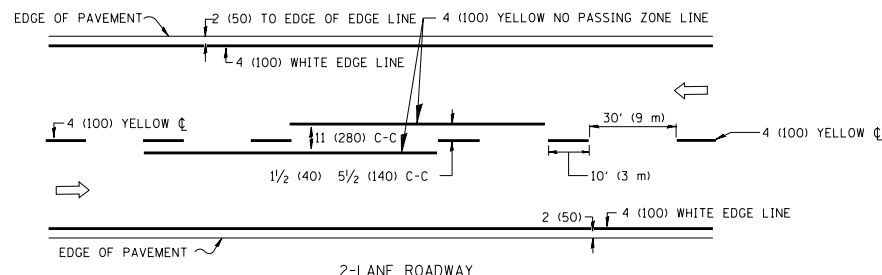
All dimensions are in inches (millimeters) unless otherwise shown.

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	PLOT DATE = 9/9/2009	DATE -	REVISED - C. JUCIUS 09-09-09

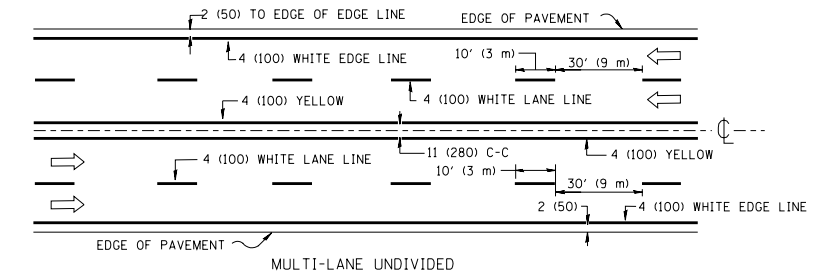
STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION

TYPICAL APPLICATIONS			
RAISED REFLECTIVE PAVEMENT MARKERS (SNOW-PLOW RESISTANT)			
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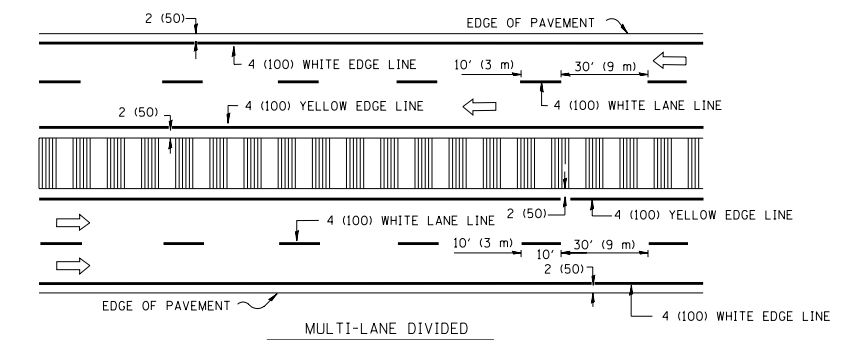
F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
066	21B-R	MCHENRY	40	36
TC-11			CONTRACT NO.	
FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT				



2-LANE ROADWAY



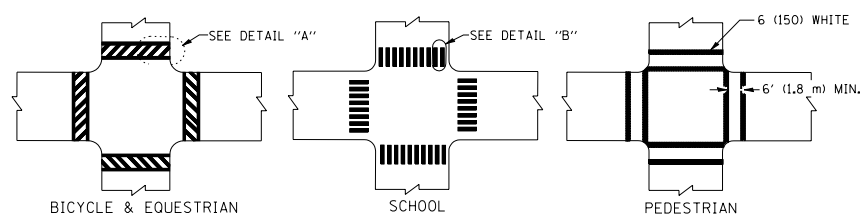
MULTI-LANE UNDIVIDED



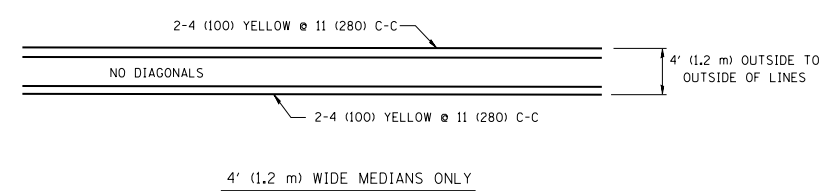
MULTI-LANE DIVIDED WITH MOUNTABLE MEDIAN

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

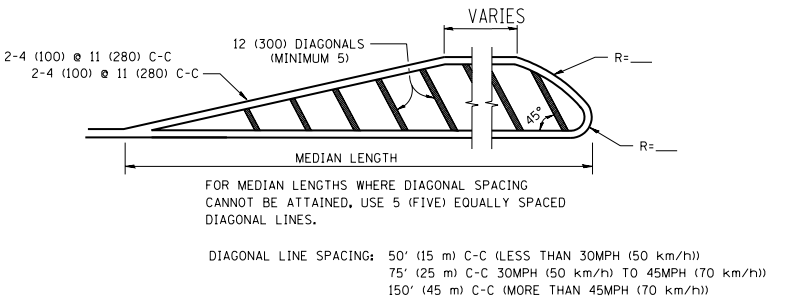
TYPICAL LANE AND EDGE LINE MARKING



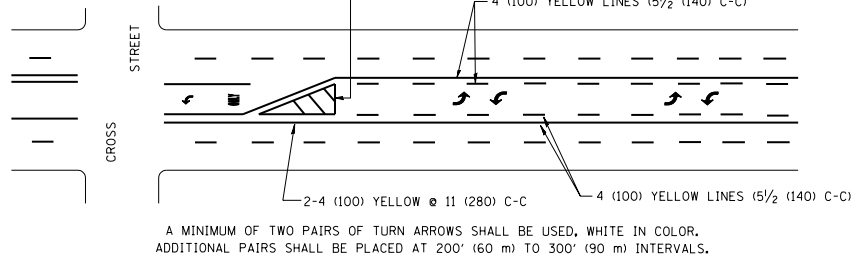
TYPICAL CROSSWALK MARKING



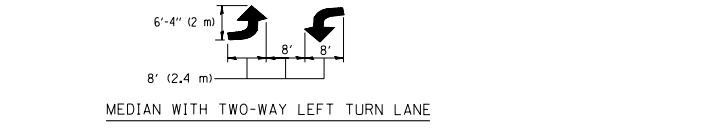
4' (1.2 m) WIDE MEDIANS ONLY



MEDIANS OVER 4' (1.2 m) WIDE



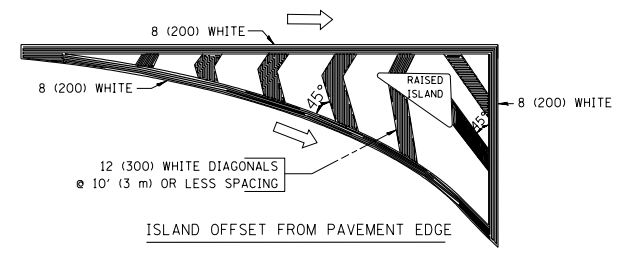
TYPICAL PAINTED MEDIAN MARKING



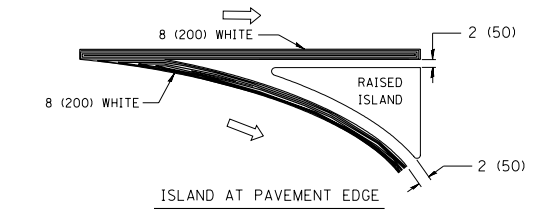
TYPICAL LEFT (OR RIGHT) TURN LANE

FULL SIZE LETTERS 8' (2.4 m) AND ARROWS SHALL BE USED.  
 \* TURN LANES IN EXCESS OF 400' (120 m) IN LENGTH MAY HAVE AN ADDITIONAL SET OF ARROW - "ONLY" INSTALLED MIDWAY BETWEEN THE OTHER TWO SETS OF ARROW - "ONLY".

TYPICAL TURN LANE MARKING



ISLAND OFFSET FROM PAVEMENT EDGE



ISLAND AT PAVEMENT EDGE

TYPICAL ISLAND MARKING

TYPE OF MARKING	WIDTH OF LINE	PATTERN	COLOR	SPACING / REMARKS
CENTERLINE ON 2 LANE PAVEMENT	4 (100)	SKIP-DASH	YELLOW	10' (3 m) LINE WITH 30' (9 m) SPACE
CENTERLINE ON MULTI-LANE UNDIVIDED PAVEMENT	2 @ 4 (100)	SOLID	YELLOW	11 (280) C-C
NO PASSING ZONE LINES: FOR ONE DIRECTION	4 (100)	SOLID	YELLOW	5 1/2' (140) C-C FROM SKIP-DASH CENTERLINE
NO PASSING ZONE LINES: FOR BOTH DIRECTIONS	2 @ 4 (100)	SOLID	YELLOW	11 (280) C-C OMIT SKIP-DASH CENTERLINE BETWEEN
LANE LINES	4 (100) 5 (125) ON FREEWAYS	SKIP-DASH SKIP-DASH	WHITE WHITE	10' (3 m) LINE WITH 30' (9 m) SPACE
DOTTED LINES (EXTENSIONS OF CENTER, LANE OR TURN LANE MARKINGS)	SAME AS LINE BEING EXTENDED	SKIP-DASH	SAME AS LINE BEING EXTENDED	2' (600) LINE WITH 6' (1.8 m) SPACE
EDGE LINES	4 (100)	SOLID	YELLOW-LEFT WHITE-RIGHT	OUTLINE MOUNTABLE MEDIANS IN YELLOW; EDGE LINES ARE NOT USED NEXT TO BARRIER CURB
TURN LANE MARKINGS	6 (150) LINE; FULL SIZE LETTERS & SYMBOLS (8' (2.4m))	SOLID	WHITE	SEE TYPICAL TURN LANE MARKING DETAIL
TWO WAY LEFT TURN MARKING	2 @ 4 (100) EACH DIRECTION	SKIP-DASH AND SOLID	YELLOW	10' (3 m) LINE WITH 30' (9 m) SPACE FOR SKIP-DASH; 5 1/2' (140) C-C BETWEEN SOLID LINE AND SKIP-DASH LINE
	8' (2.4m) LEFT ARROW	IN PAIRS	WHITE	SEE TYPICAL TWO-WAY LEFT TURN MARKING DETAIL
CROSSWALK LINES (PEDESTRIAN) A. DIAGONALS (BIKE & EQUESTRIAN) B. LONGITUDINAL BARS (SCHOOL)	2 @ 6 (150) 12 (300) @ 45° 12 (300) @ 90°	SOLID SOLID SOLID	WHITE WHITE WHITE	NOT LESS THAN 6' (1.8 m) APART 2' (600) APART 2' (600) APART SEE TYPICAL CROSSWALK MARKING DETAILS.
STOP LINES	24 (600)	SOLID	WHITE	PLACE 4' (1.2 m) IN ADVANCE OF AND PARALLEL TO CROSSWALK, IF PRESENT. OTHERWISE, PLACE AT DESIRED STOPPING POINT, PARALLEL TO CROSSROAD CENTERLINE, WHERE POSSIBLE
PAINTED MEDIANS	2 @ 4 (100) WITH 12 (300) DIAGONALS @ 45°	SOLID	YELLOW; TWO WAY TRAFFIC WHITE; ONE WAY TRAFFIC	11 (280) C-C FOR THE DOUBLE LINE SEE TYPICAL PAINTED MEDIAN MARKING.
GORE MARKING AND CHANNELIZING LINES	8 (200) WITH 12 (300) DIAGONALS @ 45°	SOLID	WHITE	DIAGONALS: 15' (4.5 m) C-C (LESS THAN 30MPH (50 km/h)) 20' (6 m) C-C 30MPH (50 km/h) TO 45MPH (70 km/h)) 30' (9 m) C-C (OVER 45MPH (70 km/h))
RAILROAD CROSSING	24 (600) TRANSVERSE LINES; "RR" 15' (4.5 m) LETTERS; 16 (400) LINE FOR "X"	SOLID	WHITE	SEE STATE STANDARD 780001 AREA OF: "R"=3.6 SQ. FT. (0.33 m <sup>2</sup> ) EACH "X"=54.0 SQ. FT. (5.0 m <sup>2</sup> )
SHOULDER DIAGONALS	12 (300) @ 45°	SOLID	WHITE - RIGHT YELLOW - LEFT	50' (15 m) C-C (LESS THAN 30MPH (50 km/h)) 75' (25 m) C-C (30 MPH (50 km/h) TO 45MPH (70 km/h)) 150' (45 m) C-C (OVER 45MPH (70 km/h))

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

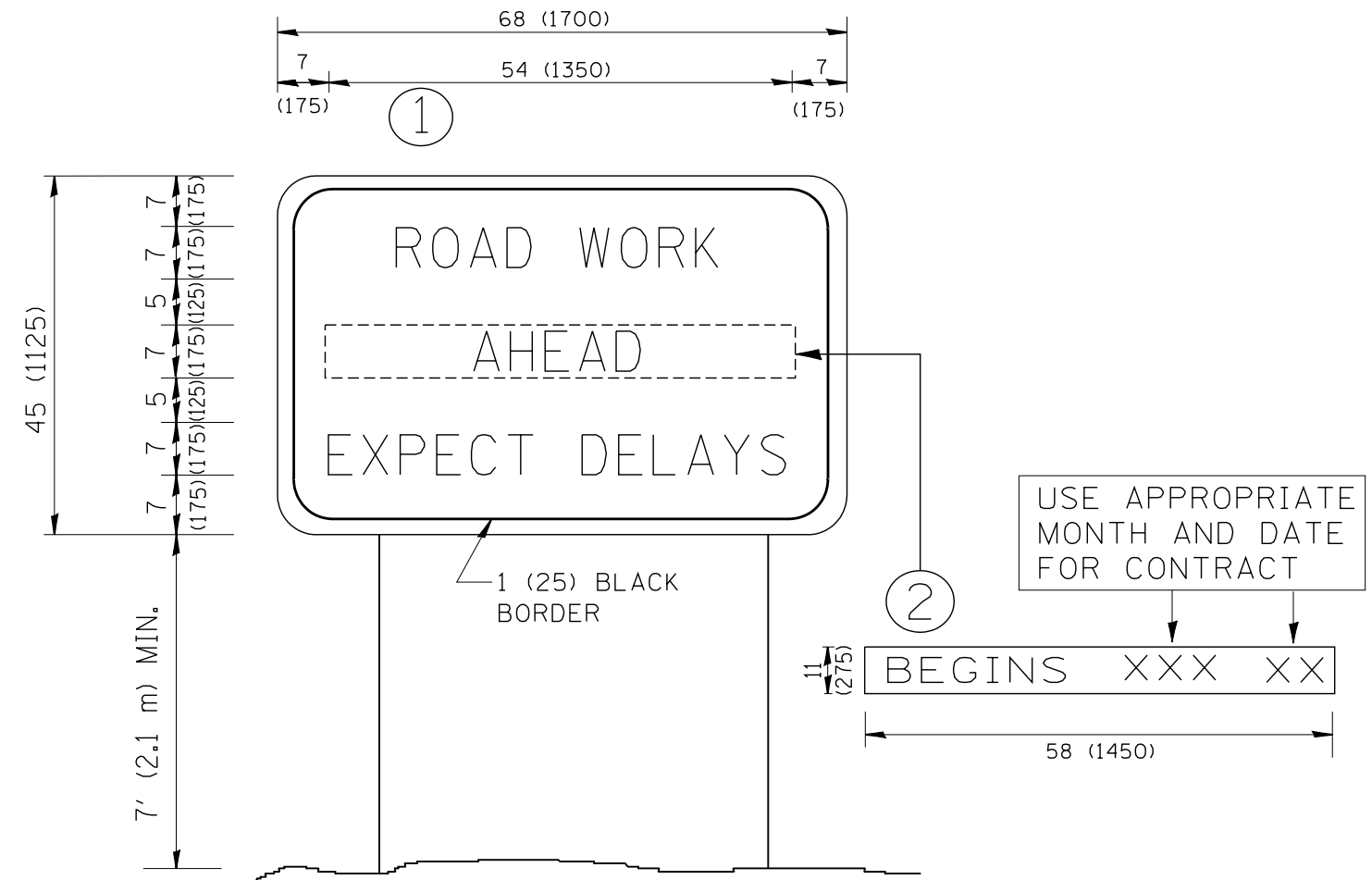
All dimensions are in inches (millimeters) unless otherwise shown.

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	PLOT SCALE = 50.000' / IN.	CHECKED -	REVISED -
	PLOT DATE = 9/9/2009	DATE - 03-19-90	REVISED -

STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION

DISTRICT ONE			
TYPICAL PAVEMENT MARKINGS			
SCALE: NONE	SHEET NO. 1 OF 1 SHEETS	STA.	TO STA.

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
066	21B-R	MCHENRY	40	37
TC-13		CONTRACT NO.		
FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT				



**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 25.70 SQ. FT. (2.3 SQ. M.)
7. SHALL BE PAID FOR AS TEMPORARY INFORMATION SIGNING.

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

FILE NAME = W:\diststd\22x34\tc22.dgn	USER NAME = gaglionobt	DESIGNED -	REVISED - R. MIRS 09-15-97
		DRAWN -	REVISED - R. MIRS 12-11-97
	PLOT SCALE = 50.000' / IN.	CHECKED -	REVISED - T. RAMMACHER 02-02-99
	PLOT DATE = 1/4/2008	DATE -	REVISED - C. JUCIUS 01-31-07

**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

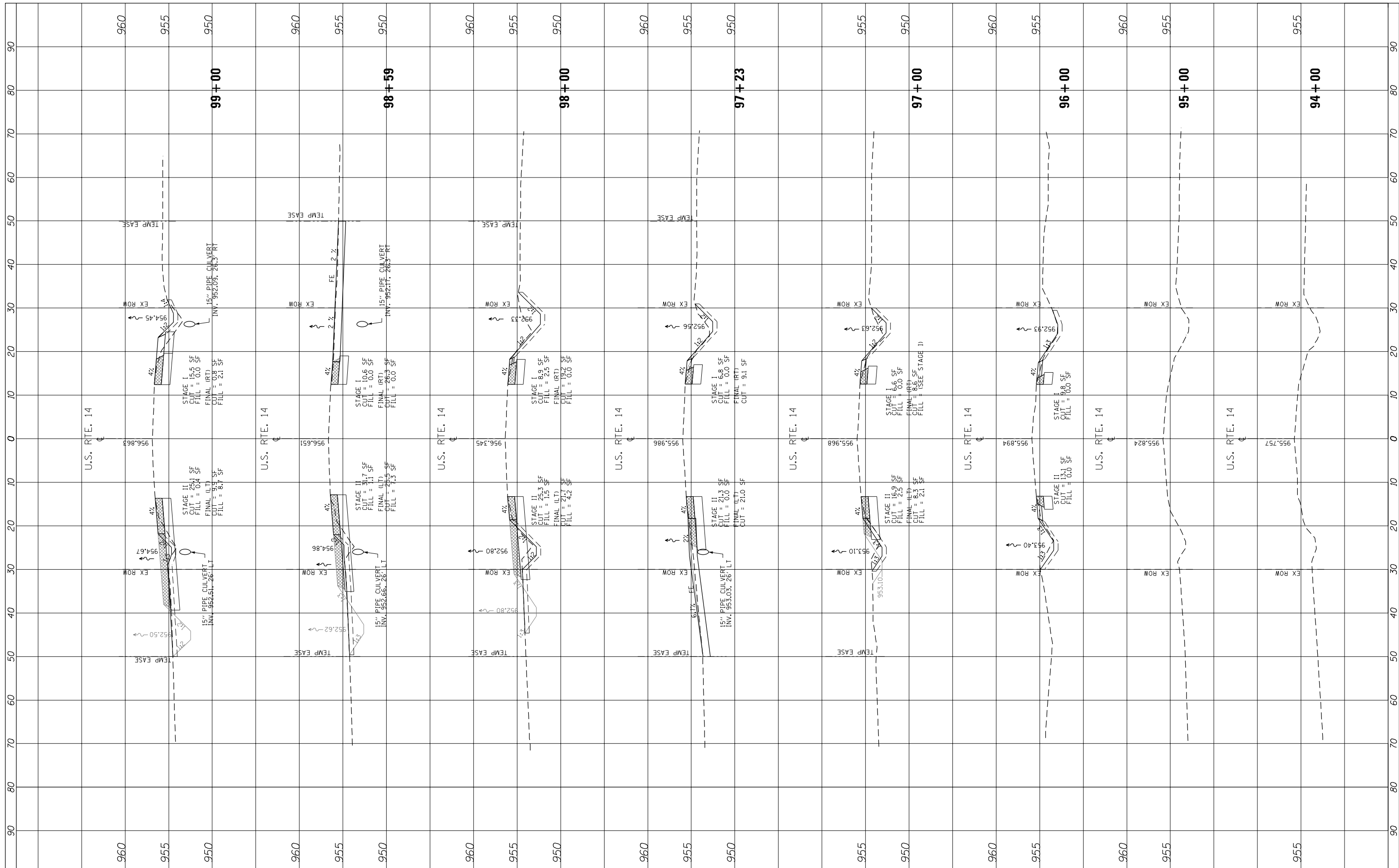
**ARTERIAL ROAD  
INFORMATION SIGN**

SCALE: NONE SHEET NO. 1 OF 1 SHEETS STA. TO STA.

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
066	21B-R	MCHENRY	40	38
<b>TC-22</b>		<b>CONTRACT NO.</b>		
FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT				

FINAL SURVEY NO.	SURVEYED PLOTTED TEMPLATE AREAS CHECKED	BY	DATE

ORIGINAL SURVEY NO.	SURVEYED PLOTTED TEMPLATE AREAS CHECKED	BY	DATE



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 DRAWN -  
 PLOT SCALE = 20.0000' / in.  
 CHECKED -  
 DATE -

REVISIONS:  
 REVISED -  
 REVISED -  
 REVISED -  
 REVISED -

**STATE OF ILLINOIS  
 DEPARTMENT OF TRANSPORTATION**

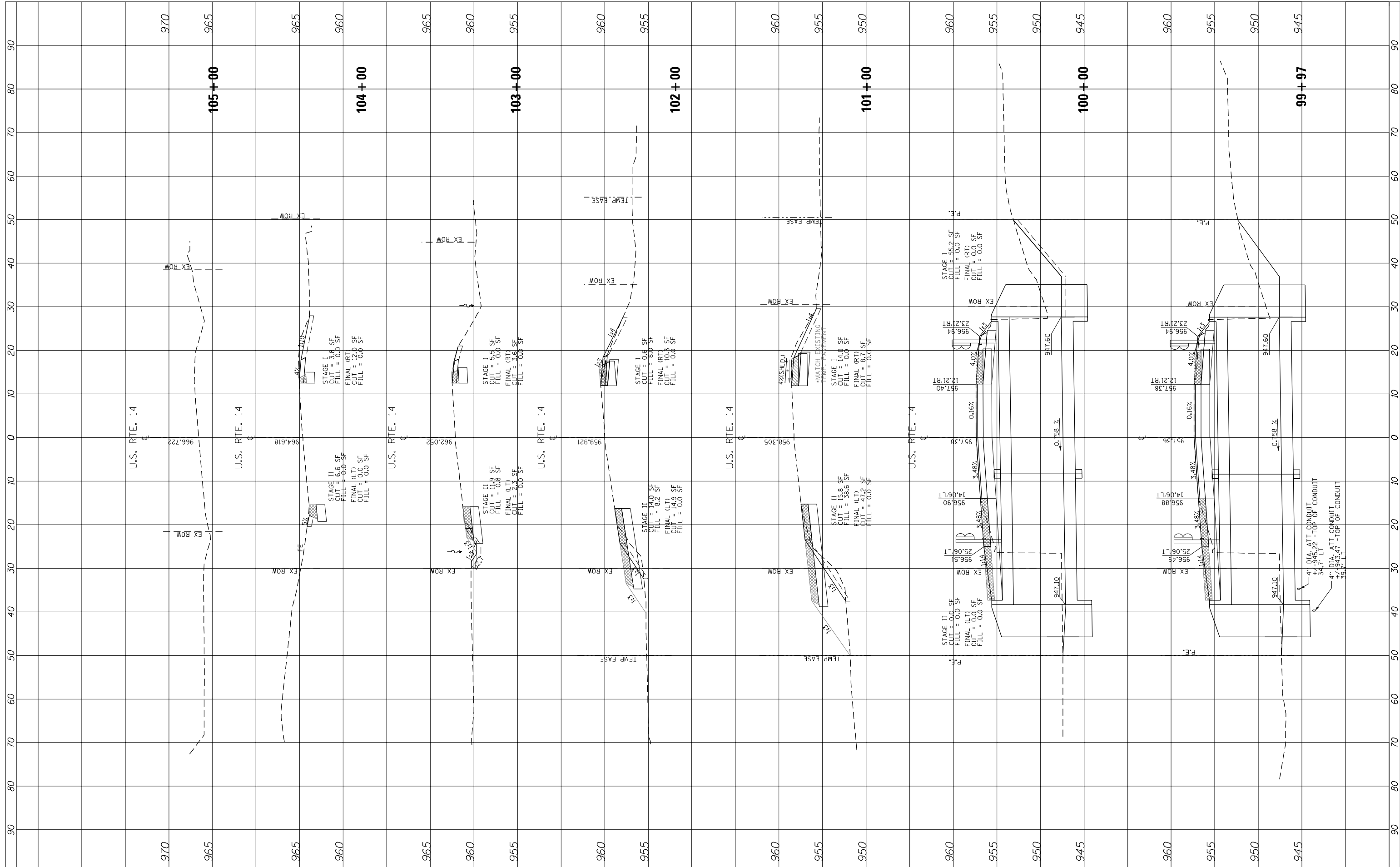
**US ROUTE 14  
 CROSS SECTIONS**  
 SCALE: SHEET 1 OF 2 SHEETS STA. 94+00 TO STA. 99+00

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
066	21B-R	MCHENRY	40	39
CONTRACT NO. 60V25				
ILLINOIS FED. AID PROJECT				



FINAL SURVEY NO.	SURVEYED PLOTTED AREAS CHECKED	BY	DATE

ORIGINAL SURVEY NO.	SURVEYED PLOTTED AREAS CHECKED	BY	DATE



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 CHECKED -  
 DATE -

DESIGNED -  
 DRAWN -  
 CHECKED -  
 DATE -

REVISED -  
 REVISED -  
 REVISED -  
 REVISED -

**STATE OF ILLINOIS  
 DEPARTMENT OF TRANSPORTATION**

SCALE: SHEET 2 OF 2 SHEETS STA. 99+97 TO STA. 105+00

**US ROUTE 14  
 CROSS SECTIONS**

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
066	21B-R	MCHENRY	40	40
CONTRACT NO. 60V25			ILLINOIS FED. AID PROJECT	