

TR	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
0135	14-00433-00-BR	MCHENRY	40	1
		ILLINOIS	CONTRACT NO. 61E23	

03-09-2018 LETTING ITEM 102

STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION

PLANS FOR PROPOSED  
FEDERAL AID HIGHWAY

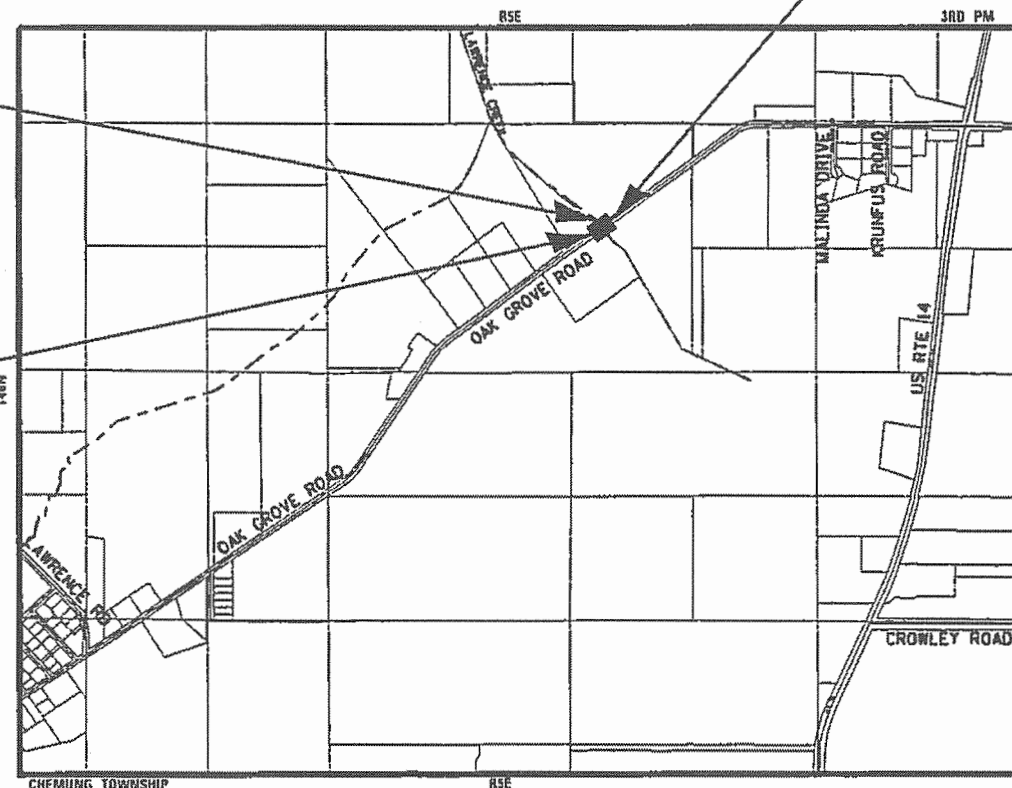
TR0135 (OAK GROVE ROAD)  
OVER DRAINAGE DITCH  
BRIDGE REPLACEMENT  
SECTION: 14-00433-00-BR  
PROJECT: AS19(155)  
MCHENRY COUNTY

C-91-151-15

END PROJECT  
OAK GROVE ROAD  
STA 111+48

EX STRUCTURE NO. 056-3035  
PR STRUCTURE NO. 056-3214

BEGIN PROJECT  
OAK GROVE ROAD  
STA 106+44



LOCATION MAP

GROSS LENGTH = 504 FT. = 0.095 MILE  
NET LENGTH = 504 FT. = 0.095 MILE



LOCATION OF SECTION INDICATED THUS: -



Denis L. Hogan  
PROJECT MANAGER  
LICENSE EXPIRES 11-30-2019



Brandon L. Buzell  
STRUCTURAL ENGINEER  
LICENSE EXPIRES 11-30-2016

STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION

APPROVED October 30, 2017  
Joe E. Kowalski Jr.  
COUNTY OF MCHENRY, COUNTY ENGINEER

PASSED DECEMBER 19, 2017  
CHRISTOPHER HOLT  
DISTRICT ENGINEER OF LOCAL ROADS & STREETS

RELEASING FOR BID  
BASED ON LIMITED  
REVIEW December 18, 2017  
Anthony J. Murphy / CRB  
REGIONAL ENGINEER

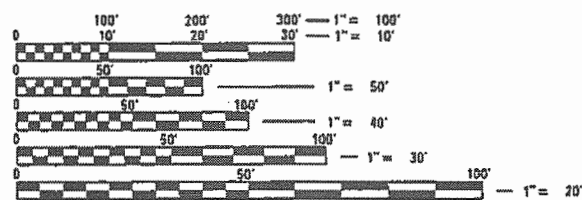
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OF THE STATE OF ILLINOIS

FOR INDEX OF SHEETS, SEE SHEET NO. 2

PROJECT LOCATED IN CHEMUNG TOWNSHIP

TRAFFIC DATA  
OAK GROVE ROAD  
POSTED SPEED LIMIT = 55 MPH  
DESIGN SPEED LIMIT = 60 MPH  
2013 ADT = 600 VPD  
2040 ADT = 730 VPD

DESIGN DESIGNATION  
80(40) COLLECTOR (0.08) (FD-20)



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. DESIGN STAGE REQUEST  
DIG. No. X0910510

J.U.L.I.E.  
JOINT UTILITY LOCATION INFORMATION FOR EXCAVATION  
1-800-892-0123  
OR 811

CONTRACT NO. 61E23

BAXTER & WOODMAN  
Consulting Engineers

10/30/2017 08:14:30 AM C:\Users\perez\Documents\Projects\14-00433-00-BR\AS19(155)\0135-01\0135-01-01.dwg  
PROGRAM AND OFFICE ENGINEER, CHARLES F. RIDDLE (847) 705-4406, SCHALMUR, IL

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**HIGHWAY STANDARDS**

000001-06	STANDARD SYMBOLS, ABBREVIATIONS AND PATTERNS
280001-07	TEMPORARY EROSION CONTROL SYSTEMS
515001-03	NAME PLATE FOR BRIDGES
542301-03	PRECAST REINFORCED CONCRETE FLARED END SECTION
630001-12	STEEL PLATE BEAM GUARDRAIL
630201-07	PCC/HMA STABILIZATION AT STEEL PLATE BEAM GUARDRAIL
630301-08	SHOULDER WIDENING FOR TYPE 1 (SPECIAL) GUARDRAIL TERMINALS
666001-01	RIGHT OF WAY MARKERS
667101-02	PERMANENT SURVEY MARKERS
701011-04	OFF-RD MOVING OPERATIONS, 2L, 2W, DAY ONLY
701301-04	LANE CLOSURE, 2L, 2W, SHORT TIME OPERATIONS
701311-03	LANE CLOSURE 2L, 2W MOVING OPERATIONS - DAY ONLY
701901-07	TRAFFIC CONTROL DEVICES
725001-01	OBJECT AND TERMINAL MARKERS
780001-05	TYPICAL PAVEMENT MARKINGS
782006	GUARDRAIL AND BARRIER WALL REFLECTOR MOUNTING DETAILS

**GENERAL NOTES**

- ALL CONSTRUCTION SHALL BE DONE IN ACCORDANCE WITH THE DETAILS IN THE PLANS, THE SPECIAL PROVISIONS INCLUDED IN THE CONTRACT DOCUMENTS, AND THE LATEST EDITION OF THE FOLLOWING STATE OF ILLINOIS SPECIFICATIONS: "THE STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION" (REFERRED TO AS THE "STANDARD SPECIFICATIONS"), THE "SUPPLEMENTAL SPECIFICATIONS AND RECURRING SPECIAL PROVISIONS", AND THE "MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES FOR STREETS AND HIGHWAYS".
- ALL RELEVANT UTILITIES SHALL BE NOTIFIED BY THE CONTRACTOR PRIOR TO THE START OF CONSTRUCTION. SEE SPECIAL PROVISIONS FOR STATUS OF UTILITIES FOR CONTACT INFORMATION OF UTILITY OWNERS.
- THE CONTRACTOR'S SUPERINTENDENT OR AUTHORIZED AGENT, AS DEFINED IN ARTICLE 105.06 OF THE STANDARD SPECIFICATIONS, MUST BE AVAILABLE IN CASE OF EMERGENCIES ON A TWENTY-FOUR (24) HOUR BASIS.
- AT THE TIME OF THE PRECONSTRUCTION CONFERENCE, THE CONTRACTOR SHALL SUBMIT FOR APPROVAL THE PROPOSED CONCRETE TRUCK WASHOUT LOCATIONS. RUNOFF FROM WASH AREAS SHALL BE CONTAINED IN DESIGNATED AREAS SO THAT RUNOFF DOES NOT REACH THE DITCH.
- THE CONTRACTOR SHALL NOTIFY THE ENGINEER, RESIDENTS AND THE COUNTY WHEN ACCESS TO DRIVEWAYS WILL BE TEMPORARILY CLOSED DUE TO DRIVEWAY REPLACEMENT. THE CONTRACTOR SHALL DISTRIBUTE NOTICES PROVIDED BY THE ENGINEER TO RESIDENTS AT LEAST 24 HOURS PRIOR TO PLANNED CLOSURE. EVERY EFFORT SHALL BE MADE TO ACCOMMODATE ACCESS TO THESE PROPERTIES INCLUDING KNOCKING ON DOORS WHEN DRIVEWAYS ARE ABOUT TO BE CLOSED.
- THE DAY'S PAVING OPERATION SHOULD RESULT IN A SINGLE TRANSVERSE JOINT. ANY COLD LONGITUDINAL JOINTS WILL NOT BE ACCEPTED. PROVIDING A SINGLE TRANSVERSE JOINT SHALL BE ACCOMPLISHED BY PAVING ONE LANE OF SUFFICIENT LENGTH THAT WILL ALLOW FOR THE PAVING OF THE ADJACENT LANE IN THE SAME DAY.
- WHEN MILLED PAVEMENT IS OPEN TO TRAFFIC, THE MAXIMUM GRADE DIFFERENTIAL BETWEEN PASSES OF THE MILLING MACHINE SHALL NOT EXCEED 1 1/2 INCHES WHERE THE SPEED LIMIT IS 45 MPH OR LESS, AND SHALL NOT EXCEED 1 INCH WHERE THE SPEED LIMIT IS OVER 45 MPH. A MAXIMUM GRADE DIFFERENCE OF 3 INCHES MAY BE ALLOWED IF THE EDGE OF THE MILLING IS SLOPED A MINIMUM OF 1:3 (V:H), AS DETERMINED BY THE ENGINEER.
- CHANNEL EXCAVATION OPERATIONS SHALL BE DONE WHEN WATER LEVEL IS AT OR BELOW NORMAL WATER SURFACE ELEVATION OR AS APPROVED BY THE ENGINEER.
- THE CONTRACTOR SHALL MAINTAIN POSITIVE DRAINAGE TO ALL EXISTING AND PROPOSED DRAINAGE STRUCTURES AT ALL TIMES DURING CONSTRUCTION. METHODS USED BY THE CONTRACTOR SHALL BE SUBJECT TO THE APPROVAL OF THE ENGINEER.
- FOR STEEL BAR CERTIFICATION, PLEASE CONTACT IDOT BUREAU OF MATERIALS AT 847-705-4363.
- CHANGEABLE MESSAGE SIGNS SHALL BE PLACED IN ADVANCE OF THE TEMPORARY DETOUR ROUTE AT LEAST ONE WEEK PRIOR TO THE CLOSURE OF OAK GROVE ROAD.
- THE CONTRACTOR SHALL CONTACT TOM MATTINGLY AT 1-815-338-0099 WITH THE MCHENRY-LAKE COUNTY SOIL AND WATER CONSERVATION DISTRICT (MLCSWCD) AT LEAST ONE WEEK PRIOR TO THE PRE-CONSTRUCTION CONFERENCE; AND ONE WEEK PRIOR TO THE COMMENCEMENT OF LAND DISTURBING ACTIVITIES AND ONE WEEK PRIOR TO THE FINAL INSPECTION. PRIOR TO COMMENCING LAND DISTURBING ACTIVITIES IN AREAS OTHER THAN INDICATED ON THESE PLANS (INCLUDING BUT NOT LIMITED TO: ADDITIONAL PHASES OF DEVELOPMENT AND OFF-SITE BORROW OR WASTE AREAS) A SUPPLEMENTARY EROSION CONTROL PLAN SHALL BE SUBMITTED TO THE OWNER FOR REVIEW BY THE MLCSWCD.
- THE CONTRACTOR IS RESPONSIBLE FOR INSTALLATION OF ANY ADDITIONAL EROSION CONTROL MEASURES NECESSARY TO PREVENT EROSION AND SEDIMENTATION AS DETERMINED BY THE MLCSWCD.
- THE EXISTING NAME PLATE SHALL BE SALVAGED AND GIVEN TO MCDOT CONSTRUCTION MANAGER PRIOR TO DEMOLITION.
- THE SURVEY DATUM USED FOR THIS PROJECT IS NAVD88.
- ANY FARM DRAIN, FIELD TILE SYSTEM OR OTHER UNDERGROUND TILE FACILITY ENCOUNTERED IN THE WORK SHALL BE LOCATED AND STAKED AND REPORTED TO THE ENGINEER. ANY DRAINAGE LINES WHICH ARE CUT OR DAMAGED BY GRADING, TRENCHING OR EXCAVATION OR OTHER CONSTRUCTION ACTIVITIES SHALL BE REPAIRED SO AS TO MAINTAIN ITS ORIGINAL ALIGNMENT. THIS WORK SHALL BE DONE IN ACCORDANCE WITH SECTION 611. THE MINIMUM SIZE FOR REPLACEMENT MUST BE 12 INCH FOR DRAIN PIPE, 12". A TYPE A INLET WITH TYPE 1 CLOSED LID WILL BE INSTALLED TO CONNECT THE TILE(S). A NOMINAL QUANTITY OF EACH ITEM HAS BEEN ADDED TO THE PLANS.
- AGGREGATE SUBGRADE IMPROVEMENT (ASI) HAS BEEN PROVIDED FOR USE AT THE LOCATIONS INDICATED FOR SOILS THAT TEND TO BE UNSUITABLE OR UNSTABLE. THE ACTUAL NEED FOR REMOVAL AND REPLACEMENT WITH ASI WILL BE DETERMINED IN THE FIELD AS THE TIME OF CONSTRUCTION BY THE ENGINEER. ALL POTENTIALLY UNSTABLE SOILS SHOULD BE TESTED WITH A STATIC PENETROMETER AND TREATED IN ACCORDANCE WITH ARTICLE 301.04 AND THE UNDERCUT GUIDELINES IN THE IDOT SUBGRADE STABILITY MANUAL. IF UNSTABLE AND/OR UNSUITABLE MATERIAL IS NOT ENCOUNTERED, THEN THE QUANTITY SHALL BE DEDUCTED. A QUANTITY OF REMOVAL AND DISPOSAL OF UNSUITABLE MATERIAL SHALL ALSO BE DEDUCTED. POTENTIAL UNDERCUT LOCATIONS ARE LISTED IN THE TYPICAL SECTIONS.

- THIS PROJECT REQUIRES ARMY CORPS OF ENGINEERS (USACE) 404 PERMIT THAT WILL BE SECURED BY MCHENRY COUNTY DIVISION OF TRANSPORTATION (MCDOT), AS A CONDITION OF THIS PERMIT. THE CONTRACTOR WILL NEED TO SUBMIT AN IN-STREAM WORK PLAN TO MCDOT AND MCHENRY COUNTY DEPARTMENT OF PLANNING AND DEVELOPMENT (MCDPD) FOR APPROVAL. GUIDELINES ON ACCEPTABLE IN-STREAM WORK TECHNIQUES CAN BE FOUND ON THE USACE WEBSITE. THE USACE DEFINES AND DETERMINES IN-STREAM WORK.
- A STORMWATER MANAGEMENT PERMIT FROM MCDPD SHALL BE SECURED BY MCDOT, PRIOR TO THE COMMENCEMENT OF CONSTRUCTION ACTIVITIES.

**PUBLIC SERVICE CONTACT LIST**

HARVARD FIRE PROTECTION DISTRICT  
502 SOUTH EASTMAN STREET  
HARVARD, ILLINOIS 60033  
(815) 943-6927  
CONTACT- STEVE HARTER (FIRE CHIEF)

HARVARD POLICE DEPARTMENT  
2200 NORTH SEMINARY AVENUE  
WOODSTOCK, ILLINOIS 60098  
(815) 943-4431  
CONTACT- BILL PRIM (SHERIFF)

HARVARD POST OFFICE  
300 NORTH EASTMAN STREET  
HARVARD, ILLINOIS 60033  
(815) 943-5182  
CONTACT-DONNA S. STEWART-RICE (POSTMASTER)

HARVARD COMMUNITY UNIT SCHOOL DISTRICT 50  
1101 NORTH JEFFERSON STREET  
HARVARD, ILLINOIS 60033  
(815) 943-4022  
CONTACT- DR. LAURI TOBIAS (SUPERINTENDENT OF SCHOOLS)

CHEMUNG TOWNSHIP HIGHWAY DEPARTMENT  
807 8TH STREET  
HARVARD, ILLINOIS 60033  
(815) 943-4553  
CONTACT- DONALD L. STAVER (HIGHWAY COMMISSIONER)

**UTILITY CONTACT LIST**

UTILITY CONTACT INFORMATION CAN BE FOUND UNDER STATUS OF UTILITY SPECIFICATION.

**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

**INDEX OF SHEETS, HIGHWAY STANDARDS,  
AND GENERAL NOTES**

DESIGNED - JDM	REVISED -
DRAWN - KAR	REVISED -
CHECKED - DTH	REVISED -
DATE - 09-29-17	FILE - 140217SHT-GenNotes.dgn

SCALE: NONE

STA. TO STA.

TR	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
0135	14-00433-00-BR	MCHENRY	40	2
CONTRACT NO. 61E23				
FED. ROAD DIST NO.		ILLINOIS FED. AID PROJECT		

**SUMMARY OF QUANTITIES**

CODE NO.	ITEM	UNIT	TOTAL QUANTITY	CONSTRUCTION CODE	
				STP-BR 80% FED 20% LOCAL	STP-BR 80% FED 20% LOCAL
				ROADWAY 0004	BRIDGE 0010
				NON-URBAN	NON-URBAN
20100110	TREE REMOVAL (6 TO 15 UNITS DIAMETER)	UNT	84	84	
20100210	TREE REMOVAL (OVER 15 UNITS DIAMETER)	UNT	27	27	
20200100	EARTH EXCAVATION	CJ YD	435	435	
20201200	REMOVAL AND DISPOSAL OF UNSUITABLE MATERIAL	CJ YD	125	125	
20300100	CHANNEL EXCAVATION	CJ YD	70	70	
20400800	FURNISHED EXCAVATION	CJ YD	140	140	
20800150	TRENCH BACKFILL	CJ YD	7	7	
21001000	GEOTECHNICAL FABRIC FOR GROUND STABILIZATION	SQ YD	396	396	
21101505	TOPSOIL EXCAVATION AND PLACEMENT	CJ YD	395	395	
25000210	SEEDING, CLASS 2A	ACRE	0.50	0.50	
25000314	SEEDING, CLASS 4B	ACRE	0.25	0.25	
25000400	NITROGEN FERTILIZER NUTRIENT	POUND	47	47	
25000600	POTASSIUM FERTILIZER NUTRIENT	POUND	47	47	
25100630	EROSION CONTROL BLANKET	SQ YD	1,993	1,993	
28000250	TEMPORARY EROSION CONTROL SEEDING	POUND	50	50	

\* INDICATES SPECIALTY ITEM

CODE NO.	ITEM	UNIT	TOTAL QUANTITY	CONSTRUCTION CODE	
				STP-BR 80% FED 20% LOCAL	STP-BR 80% FED 20% LOCAL
				ROADWAY 0004	BRIDGE 0010
				NON-URBAN	NON-URBAN
28000305	TEMPORARY DITCH CHECKS	FOOT	130	130	
28000400	PERIMETER EROSION BARRIER	FOOT	1,054	1,054	
28000500	INLET AND PIPE PROTECTION	EACH	1	1	
28001100	TEMPORARY EROSION CONTROL BLANKET	SQ YD	2,396	2,396	
28100107	STONE RIPRAP, CLASS A4	SQ YD	136		136
28200200	FILTER FABRIC	SQ YD	136		136
30300001	AGGREGATE SUBGRADE IMPROVEMENT	CJ YD	95	95	
30300112	AGGREGATE SUBGRADE IMPROVEMENT 12"	SQ YD	780	780	
35101800	AGGREGATE BASE COURSE, TYPE B 6"	SQ YD	76	76	
40600982	HOT-MIX ASPHALT SURFACE REMOVAL - BUTT JOINT	SQ YD	22	22	
40603335	HOT-MIX ASPHALT SURFACE COURSE, MIX "D", N50	TON	74	74	
40600290	BITUMINOUS MATERIALS (TACK COAT)	POUND	992	992	
40600625	LEVELING BINDER (MACHINE METHOD), N50	TON	37	37	
40701801	HOT-MIX ASPHALT PAVEMENT (FULL DEPTH), 6"	SQ YD	324	324	
44000100	PAVEMENT REMOVAL	SQ YD	321	321	

\* INDICATES SPECIALTY ITEM

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DRAWN - KAR	REVISED -
CHECKED - DTH	REVISED -
DATE - 09-29-17	FILE - 140217SHT-S00.dgn

**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

**SUMMARY OF QUANTITIES**

SCALE: NONE

STA. TO STA.

TR	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
0135	14-00433-00-BR	McHENRY	40	3
FED. ROAD DIST. NO.			CONTRACT NO. 61E23	
[ILLINOIS] FED. AID PROJECT				

**SUMMARY OF QUANTITIES**

CODE NO.	ITEM	UNT	TOTAL QUANTITY	CONSTRUCTION CODE	
				STP-BR 80% FED 20% LOCAL	STP-BR 80% FED 20% LOCAL
				ROADWAY 0004 NON-URBAN	BRIDGE 0010 NON-URBAN
44000158	HOT-MX ASPHALT SURFACE REMOVAL, 2 1/4"	SQ YD	865	865	
48203021	HOT-MX ASPHALT SHOULDERS, 6"	SQ YD	583	583	
50100100	REMOVAL OF EXISTING STRUCTURES	EACH	1		1
50105220	PIPE CULVERT REMOVAL	FOOT	25	25	
50200100	STRUCTURE EXCAVATION	CU YD	354		354
50300300	PROTECTIVE COAT	SQ YD	19		19
50800205	REINFORCEMENT BARS, EPOXY COATED	POUND	25,930		25,930
51500100	NAME PLATES	EACH	1		1
54003000	CONCRETE BOX CULVERTS	CU YD	176.7		176.7
54213660	PRECAST REINFORCED CONCRETE FLARED END SECTIONS 15"	EACH	2	2	
542A0220	PIPE CULVERTS, CLASS A, TYPE 1 15"	FOOT	30	30	
60100945	PIPE DRAINS 12"	FOOT	100	100	
60235300	INLETS, TYPE A, TYPE 1 FRAME CLOSED LID	EACH	3	3	
* 63000001	STEEL PLATE BEAM GUARD RAIL, TYPE A, 6 FOOT POSTS	FOOT	250	250	
* 63100167	TRAFFIC BARRIER TERMINAL, TYPE 1 (SPECIAL) TANGENT	EACH	4	4	

\* INDICATES SPECIALTY ITEM

CODE NO.	ITEM	UNT	TOTAL QUANTITY	CONSTRUCTION CODE	
				STP-BR 80% FED 20% LOCAL	STP-BR 80% FED 20% LOCAL
				ROADWAY 0004 NON-URBAN	BRIDGE 0010 NON-URBAN
* 63200310	GUARDRAIL REMOVAL	FOOT	288	288	
66600105	FURNISHING AND ERECTING RIGHT OF WAY MARKERS	EACH	7	7	
67000500	ENGINEER'S FIELD OFFICE, TYPE B	CAL MO	4	4	
67100100	MOBILIZATION	LSUM	1	1	
72400100	REMOVE SIGN PANEL ASSEMBLY - TYPE A	EACH	2	2	
* 72501000	TERMINAL MARKER-DIRECT APPLIED	EACH	4	4	
* 78000200	THERMOPLASTIC PAVEMENT MARKING - LINE 4"	FOOT	1,445	1,445	
* 78200005	GUARDRAIL REFLECTORS, TYPE A	EACH	8	8	
* Z0007124	STEEL RAILING (SPECIAL)	FOOT	66		66
Z0013798	CONSTRUCTION LAY OUT	LSUM	1	1	
* Z0022800	FENCE REMOVAL	FOOT	250	250	
Z0030850	TEMPORARY INFORMATION SIGNING	SQ FT	55	55	
Z0066400	STABILIZED DRIVEWAYS 6"	SQ YD	17	17	
X0322128	MEMBRANE WATERPROOFING FOR BURIED STRUCTURES	SQ YD	130		130
X2130010	EXPLORATION TRENCH, SPECIAL	FOOT	100	100	

\* INDICATES SPECIALTY ITEM

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**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

**SUMMARY OF QUANTITIES**

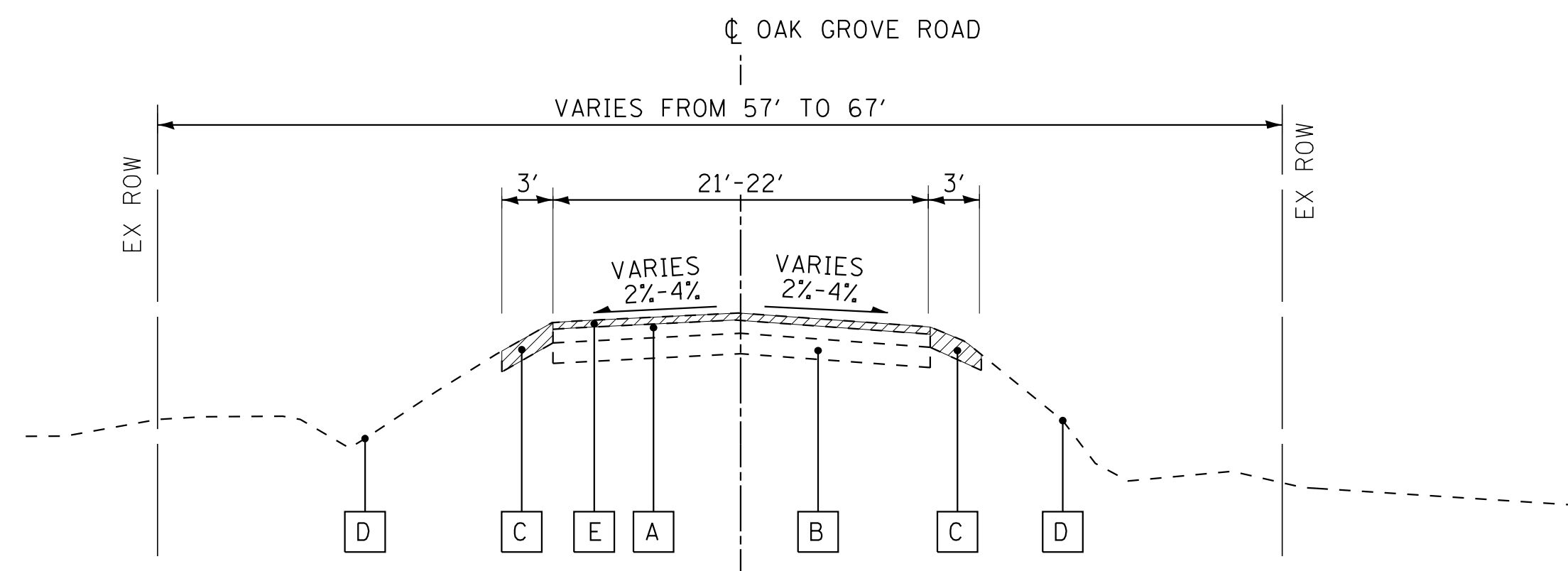
SCALE: NONE

STA. TO STA.

TR	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
0135	14-00433-00-BR	McHENRY	40	4
CONTRACT NO. 61E23			FED. ROAD DIST. NO. [ILLINOIS] FED. AID PROJECT	

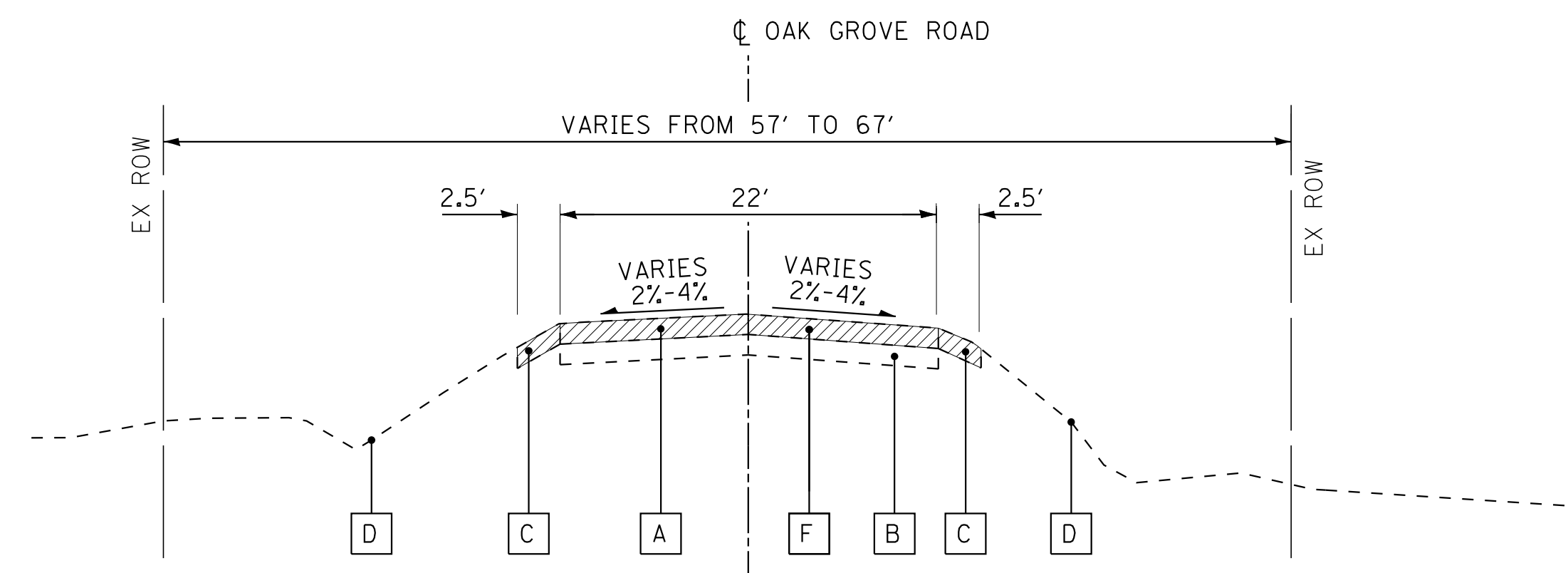






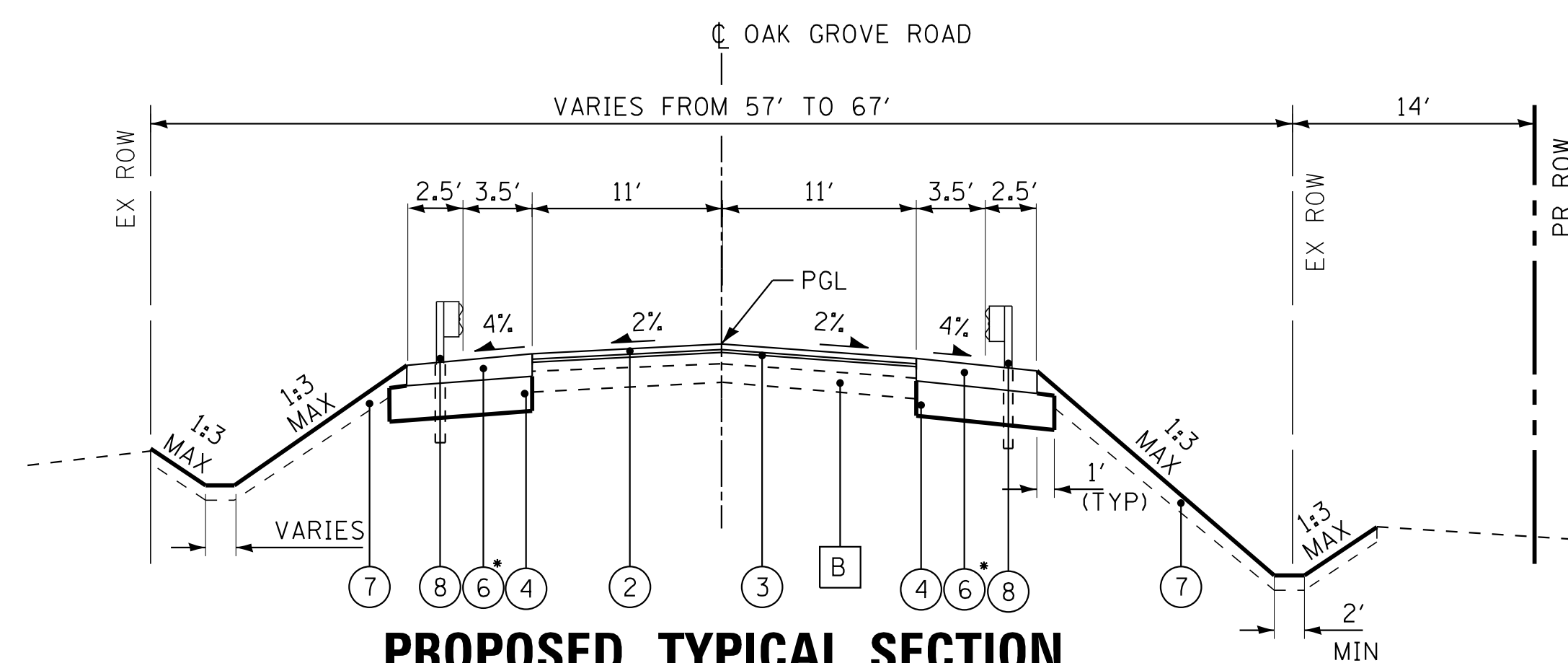
**EXISTING TYPICAL SECTION**

STA 106+44 TO STA 108+29, OAK GROVE ROAD  
STA 109+61 TO STA 111+48, OAK GROVE ROAD



**EXISTING TYPICAL SECTION**

STA 108+29 TO STA 109+61, OAK GROVE ROAD



**PROPOSED TYPICAL SECTION**

STA 106+44 TO STA 108+29, OAK GROVE ROAD  
STA 109+61 TO STA 111+48, OAK GROVE ROAD  
\*VARIES FROM 4" TO 6" (SEE ROADWAY PLAN)

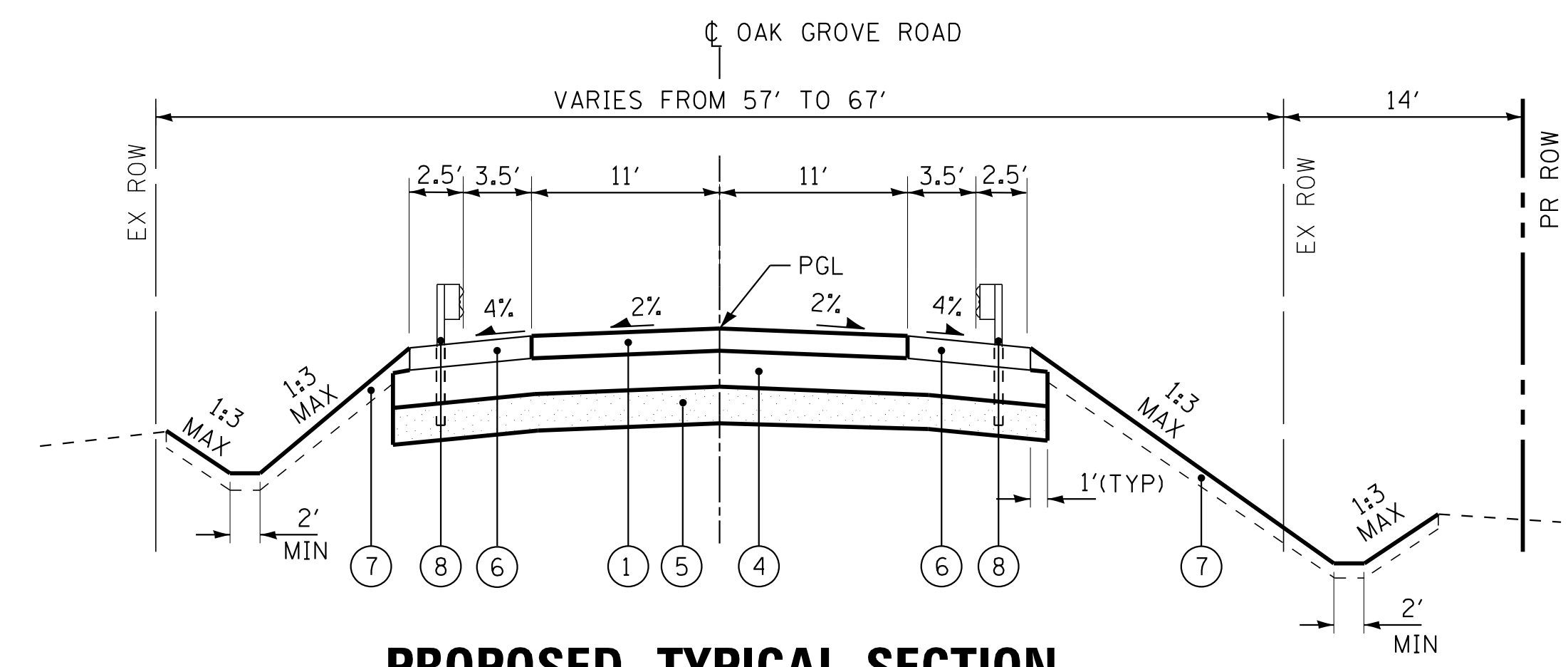
**HOT-MIX ASPHALT MIXTURE REQUIREMENTS**

MIXTURE TYPE	AIR VOIDS @ Ndes
<b>FULL DEPTH PAVEMENT 6"- OAK GROVE ROAD</b>	
HMA SURFACE COURSE, MIX "D", N50 (IL 9.5mm): 2"	4% @50 GYR.
BINDER COURSE, IL-19.0, N50: 4"	4% @50 GYR.
<b>RESURFACING- OAK GROVE ROAD</b>	
HMA SURFACE COURSE, MIX "D", N50 (IL 9.5mm): 1-1/2"	4% @50 GYR.
LEVELING BINDER (MACHINE METHOD), N50: 3/4"	4% @50 GYR.
<b>HMA SHOULDERS (6")</b>	
HOT-MIX ASPHALT SURFACE COURSE, MIX "D", N50 (IL 9.5 mm) - 2"	4% @50 GYR.
HOT-MIX ASPHALT BINDER COURSE, IL-19.0, N50: 4"	4% @50 GYR.
<b>STABILIZED DRIVEWAYS- FE (6")</b>	
HOT-MIX ASPHALT SURFACE COURSE, MIX "D", N50 (IL 9.5 mm) - 2"	4% @ 50 Gyr.
HMA BASE COURSE (HMA BINDER IL-19mm): 4"	4% @ 50 Gyr.

THE UNIT WEIGHT USED TO CALCULATE ALL HMA MIXTURE QUANTITIES IS 112 LBS/SQ YD/IN.

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 58-28" UNLESS MODIFIED BY THE DISTRICT ONE SPECIAL PROVISIONS.

FOR USE OF RECYCLED MATERIALS SEE DISTRICT ONE SPECIAL PROVISIONS.



**PROPOSED TYPICAL SECTION**

STA 108+29 TO STA 109+61, OAK GROVE ROAD

**EXISTING LEGEND**

- A HMA PAVEMENT (4" +/-)
- B AGGREGATE SUBBASE
- C AGGREGATE SHOULDER
- D GROUND
- E HMA SURFACE REMOVAL, 2-1/4"
- F PAVEMENT REMOVAL
- ITEM TO BE REMOVED

**PROPOSED LEGEND**

- 1 HOT-MIX ASPHALT PAVEMENT (FULL DEPTH), 6"  
HOT-MIX ASPHALT SURFACE COURSE, MIX "D", N50-2"  
HOT-MIX ASPHALT BINDER COURSE, IL-19.0, N50-4"
- 2 HOT-MIX ASPHALT SURFACE COURSE, MIX "D", N50-1-1/2"
- 3 LEVELING BINDER (MACHINE METHOD), N50-3/4"
- 4 AGGREGATE SUBGRADE IMPROVEMENT, 12" (SO YD)
- 5 AGGREGATE SUBGRADE IMPROVEMENT, (CU YD)  
12" DEPTH WITH GEOTECHNICAL FABRIC FOR GROUND STABILIZATION
- 6 HOT-MIX ASPHALT SHOULDERS, 6" (SO YD)  
HMA SURFACE COURSE, MIX "D", N50-2"  
HMA BINDER COURSE, IL-19.0, N50-4"
- 7 SEEDING, EROSION CONTROL BLANKET  
(SEE LANDSCAPING PLANS)
- 8 STEEL PLATE BEAM GUARDRAIL, TYPE A  
6 FOOT POSTS

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DESIGNED - JDM	REVISED -
DRAWN - CJC	REVISED -
CHECKED - DTH	REVISED -
DATE - 09-29-17	FILE - 140217SHT-TypSec.dgn

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

**TYPICAL SECTIONS**  
**OAK GROVE ROAD**

SCALE: NONE

STA. TO STA.

TR	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
0135	14-00433-00-BR	MCHENRY	40	6
			CONTRACT NO. 61E23	
FED. ROAD DIST. NO.		ILLINOIS FED. AID PROJECT		

EARTHWORK													
LOCATION	1	2	3	4	5	6	7	8	9	10	11	12	13
STA TO STA	TOPSOIL EXCAVATION (DEPTH 6") (CU YD)	TOPSOIL EXCAVATION FOR PLACEMENT (15% SHRINKAGE) (CU YD)	TOPSOIL PLACEMENT (DEPTH 6") (CU YD)	TOPSOIL BALANCE WASTE (+) OR SHORTAGE (-) (CU YD)	AGGREGATE SUBGRADE IMPROVEMENT (CU YD)	UNSUITABLE EXCAVATION (TOPSOIL) (CU YD)	REMOVAL & DISPOSAL OF UNSUITABLE MATERIAL (CU YD)	EARTH EXCAVATION (CU YD)	CHANNEL EXCAVATION (CU YD)	TOTAL SUITABLE EXCAVATION (CU YD)	EXCAVATION TO BE USED IN EMBANKMENT (15% SHRINKAGE) (CU YD)	EMBANKMENT (CU YD)	EARTHWORK BALANCE WASTE (+) OR SHORTAGE (-) (CU YD)
<b>OAK GROVE ROAD</b>	<b>+492</b>	<b>+419</b>	<b>+395</b>	<b>+29</b>	<b>+95</b>	<b>+29</b>	<b>+125</b>	<b>+435</b>	<b>-</b>	<b>+435</b>	<b>+370</b>	<b>+505</b>	<b>(-140)</b>
106+44.00 106+50.00	5.0	4.3	4.0	+0.3	-	0.3	0.3	5.2	-	5.2	4.5	1.9	+3
106+50.00 107+00.00	42.5	36.2	34.5	+1.7	-	1.7	1.7	48.4	-	48.4	41.2	21.5	+20
107+00.00 107+50.00	45.3	38.6	35.8	+2.8	-	2.8	2.8	43.4	-	43.4	37.0	40.1	(-3)
107+50.00 108+00.00	48.5	41.3	37.2	+4.1	-	4.1	4.1	30.3	-	30.3	25.8	66.6	(-41)
108+00.00 108+25.00	25.3	21.6	19.4	+2.2	-	2.2	2.2	12.6	-	12.6	10.8	39.0	(-28)
108+25.00 108+29.00	4.1	3.5	3.2	+0.3	-	0.3	0.3	1.9	-	1.9	1.6	6.1	(-4)
108+29.00 108+50.00	23.2	19.8	18.5	+1.3	18.7	1.3	20.0	17.6	-	17.6	15.0	31.4	(-16)
108+50.00 108+75.00	30.5	26.0	23.2	+2.8	22.2	2.8	25.0	33.6	-	33.6	28.6	32.7	(-4)
108+75.00 108+79.00	5.0	4.3	3.5	+0.8	3.6	0.8	4.3	5.9	-	5.9	5.1	4.6	+1
CULVERT	-	-	-	-	-	-	-	-	-	-	-	-	-
109+11.00 109+25.00	17.1	14.6	12.5	+2.1	13.5	2.1	15.6	15.5	-	15.5	13.2	25.3	(-12)
109+25.00 109+50.00	29.6	25.2	22.8	+2.4	24.1	2.4	26.5	30.5	-	30.5	25.9	44.3	(-18)
109+50.00 109+61.00	12.6	10.8	10.3	+0.5	10.6	0.5	11.1	14.7	-	14.7	12.5	19.1	(-7)
109+61.00 110+00.00	45.8	39.0	36.9	+2.1	-	2.1	2.1	41.0	-	41.0	34.9	58.6	(-24)
110+00.00 110+50.00	59.8	50.9	49.1	+1.8	-	1.8	1.8	45.5	-	45.5	38.7	54.2	(-16)
110+50.00 111+00.00	58.9	50.1	49.4	+0.7	-	0.7	0.7	53.9	-	53.9	45.9	40.9	+5
111+00.00 111+48.00	38.3	32.6	29.8	+2.8	-	2.8	2.8	31.5	-	31.5	28.8	18.6	+8
<b>DRAINAGE DITCH</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>70</b>	<b>-</b>	<b>-</b>	<b>0.5</b>	<b>-</b>
300+00.00 300+25.00	-	-	-	-	-	-	-	-	-	-	-	-	-
300+25.00 300+33.00	-	-	-	-	-	-	-	-	1.1	-	-	-	-
300+33.00 300+43.00	-	-	-	-	-	-	-	-	5.3	-	-	0.1	-
300+43.00 300+50.00	-	-	-	-	-	-	-	-	5.6	-	-	0.1	-
300+50.00 300+53.00	-	-	-	-	-	-	-	-	3.0	-	-	0.1	-
CULVERT	-	-	-	-	-	-	-	-	-	-	-	-	-
300+86.00 300+90.00	-	-	-	-	-	-	-	-	16.2	-	-	-	-
300+90.00 301+00.00	-	-	-	-	-	-	-	-	28.8	-	-	0.1	-
301+00.00 301+07.00	-	-	-	-	-	-	-	-	6.2	-	-	0.1	-
301+07.00 301+14.00	-	-	-	-	-	-	-	-	-	-	-	-	-
<b>TOTALS</b>	<b>492</b>	<b>419</b>	<b>395</b>	<b>29</b>	<b>95</b>	<b>29</b>	<b>125</b>	<b>435</b>	<b>70</b>	<b>435</b>	<b>370</b>	<b>505</b>	<b>(-140)</b>

- COLUMN 1 = TOPSOIL REMOVAL DEPTH 6"
- COLUMN 2 = [COLUMN 1] x 0.85
- COLUMN 3 = FROM CROSS SECTION END AREAS, DEPTH 6"
- COLUMN 4 = [COLUMN 2] - [COLUMN 3]
- COLUMN 5 = ASSUMED TO BE 1' DEPTH
- COLUMN 6 = [COLUMN 4] (IF COLUMN 4 > 0)
- COLUMN 7 = [COLUMN 5] + [COLUMN 6]
- COLUMN 8 = FROM CROSS SECTION END AREAS
- COLUMN 9 = EXCAVATION WITHIN CHANNEL OUTSIDE OF STRUCTURE
- COLUMN 10 = [COLUMN 8]
- COLUMN 11 = [COLUMN 10] x 0.85
- COLUMN 12 = FROM CROSS SECTION END AREAS
- COLUMN 13 = [COLUMN 11] - [COLUMN 12]

**EARTHWORK PAY ITEM SUMMARY**

	TOTAL	CU YD
EARTH EXCAVATION	435	CU YD
REMOVAL AND DISPOSAL OF UNSUITABLE MATERIAL	125	CU YD
CHANNEL EXCAVATION	70	CU YD
FURNISHED EXCAVATION	140	CU YD
TOPSOIL EXCAVATION AND PLACEMENT	395	CU YD
AGGREGATE SUBGRADE IMPROVEMENT	95	CU YD

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DATE - 09-29-17	FILE - 140217SHT-Earthwork.dgn

**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

**EARTHWORK SCHEDULE**

SCALE: NONE

STA. TO STA.

TR	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
0135	14-00433-00-BR	MCHENRY	40	7
FED. ROAD DIST. NO.			ILLINOIS FED. AID PROJECT	
			CONTRACT NO. 61E23	

<• 1 Describe Chain PR OAK GROVE

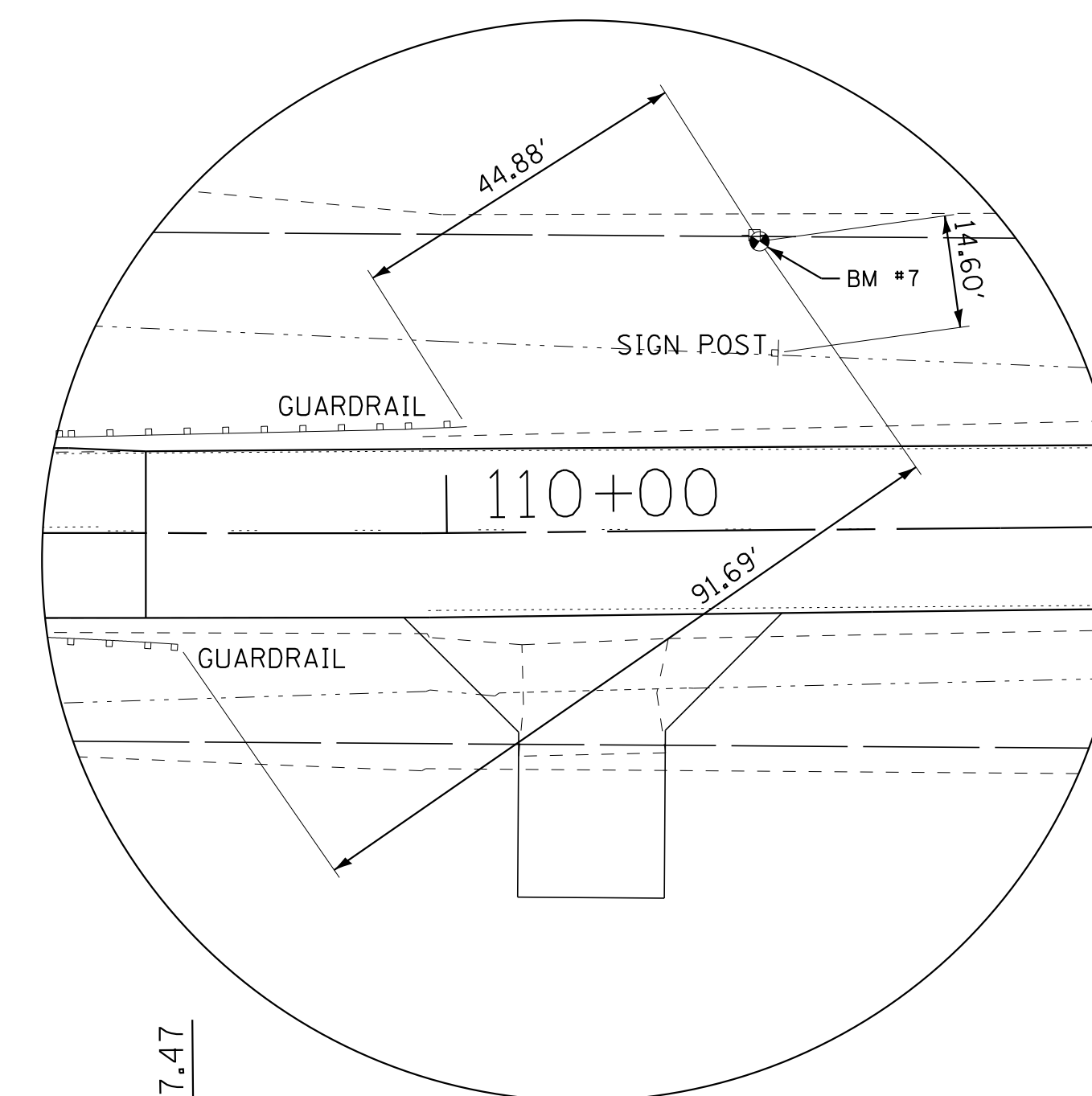
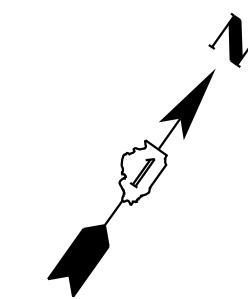
Chain PR OAK GROVE contains:  
01 02 03 04 05 06 07

Beginning chain PR OAK GROVE description

Point 01	N	2,108,176.06 E	906,898.27 Sta	100+00
Course from 01 to 02 N 54° 31' 33" E Dist 400.73				
Point 02	N	2,108,408.62 E	907,224.61 Sta	104+01
Course from 02 to 03 N 54° 47' 16" E Dist 465.66				
Point 03	N	2,108,677.12 E	907,605.07 Sta	108+66
Course from 03 to 04 N 54° 46' 21" E Dist 130.39				
Point 04	N	2,108,752.33 E	907,711.58 Sta	109+97
Course from 04 to 05 N 54° 13' 37" E Dist 100.69				
Point 05	N	2,108,811.19 E	907,793.27 Sta	110+97
Course from 05 to 06 N 54° 49' 34" E Dist 298.83				
Point 06	N	2,108,983.34 E	908,037.53 Sta	113+96
Course from 06 to 07 N 54° 54' 24" E Dist 563.99				
Point 07	N	2,109,307.58 E	908,499.00 Sta	119+60

Ending chain PR OAK GROVE description

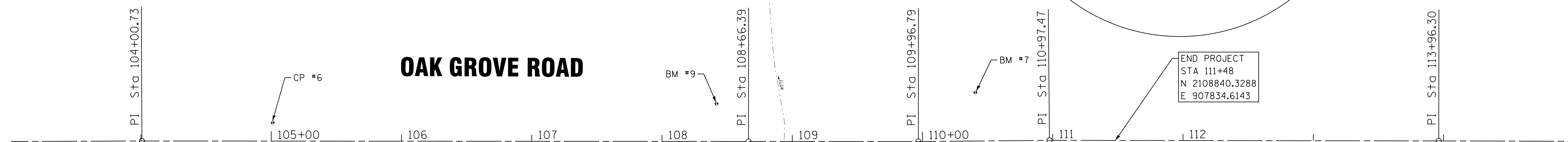
DRAINAGE DITCH  
(AKA UNNAMED TRIBUTARY  
TO LAWRENCE CREEK)



**BM #7**  
OAK GROVE ROAD  
STA 110+40.85, 37.42' LT  
MINI RAILROAD SPIKE IN POWER POLE  
IN N PARKWAY OF OAK GROVE RD  
APPROX 150' SE OF LAWRENCE CREEK  
BRIDGE SE OF ADDRESS 21600

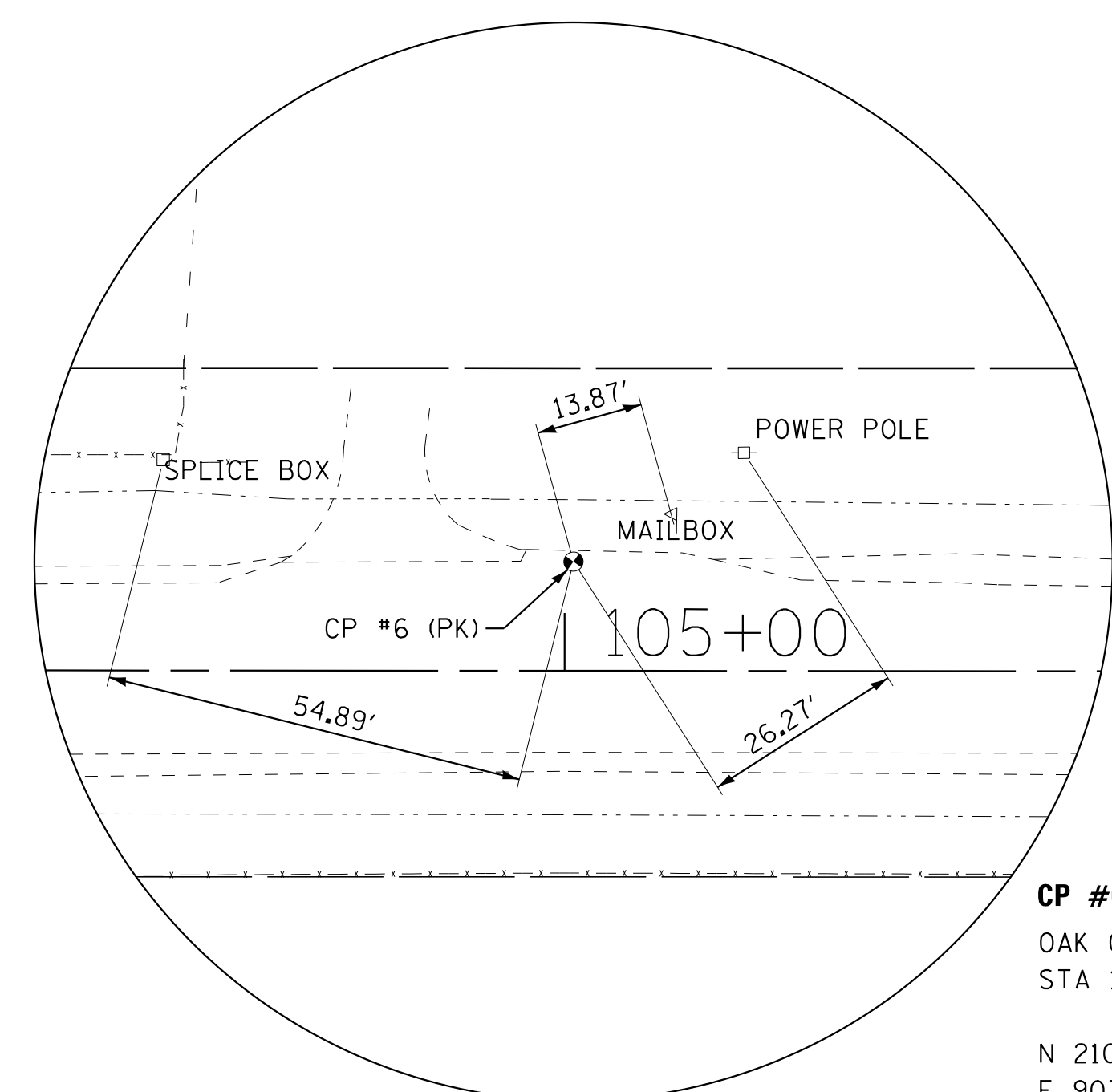
N 2108808.457  
E 907725.460  
ELEV 914.167 (NAVD 88)

**END PROJECT**  
STA 111+48  
N 2108840.3288  
E 907834.6143

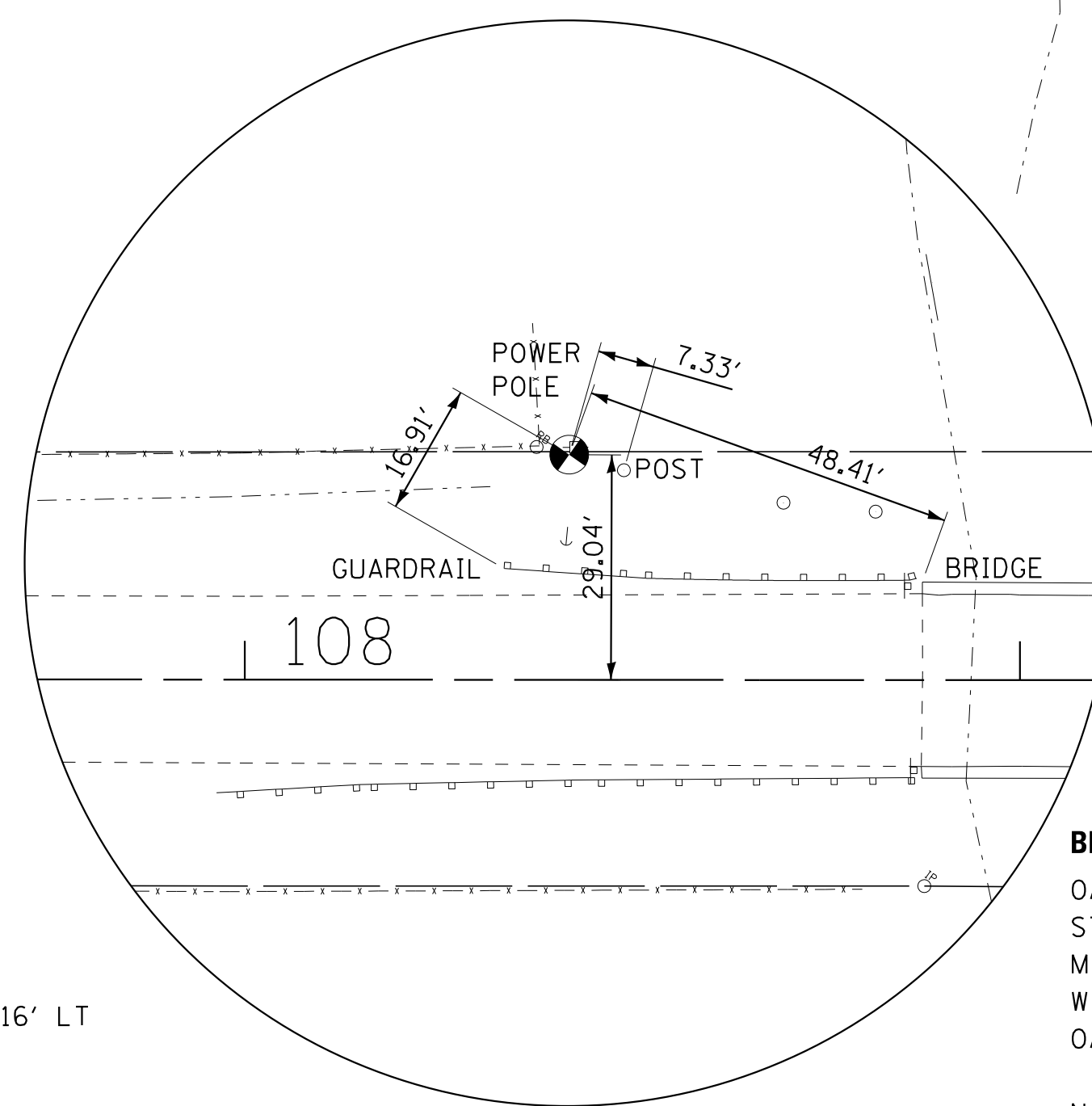


**OAK GROVE ROAD**

**BEGIN PROJECT**  
STA 106+44  
N 2108549.0245  
E 907423.5621

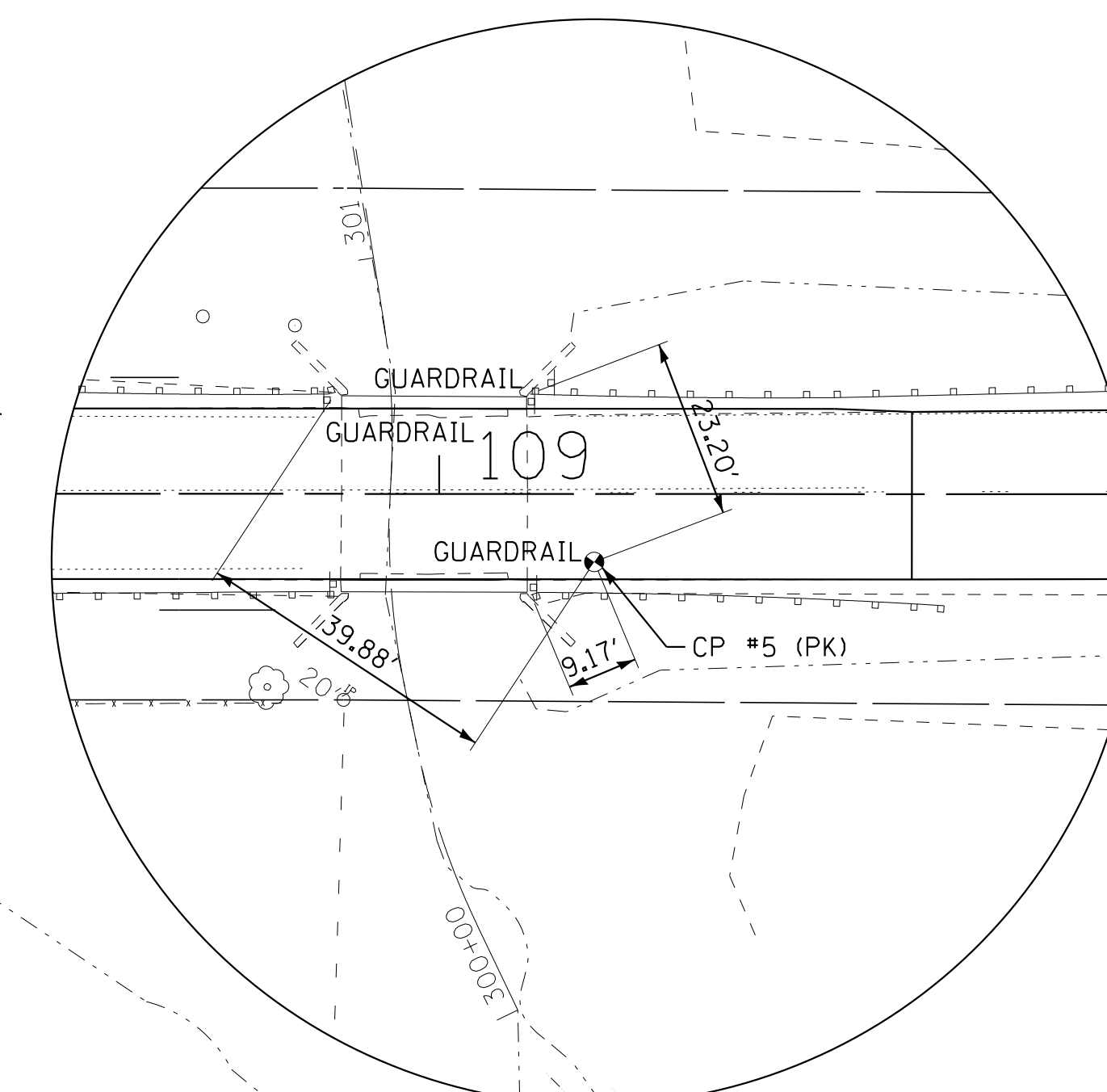


**CP #6**  
OAK GROVE ROAD  
STA 105+01.14, 14.16' LT  
  
N 2108700.887  
E 907653.921  
ELEV 917.212



**BM #9**  
OAK GROVE ROAD  
STA 108+40.85, 26.04' LT  
MINI RAILROAD SPIKE IN SOUTH FACE POWER POLE  
WITH GUIDEWIRE TO SOUTH AT NW COR BRIDGE ON  
OAK GROVE RD OVER LAWRENCE CREEK  
  
N 2108686.686  
E 907568.262  
ELEV 915.385 (NAVD 88)

**CP #5**  
OAK GROVE ROAD  
STA 109+20.00, 8.76' RT  
  
N 2108478.088  
E 907298.478  
ELEV 920.670



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CHECKED - DTH	REVISED -
DATE - 09-29-17	FILE - 140217SHT-ATB.dgn

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DEPARTMENT OF TRANSPORTATION**

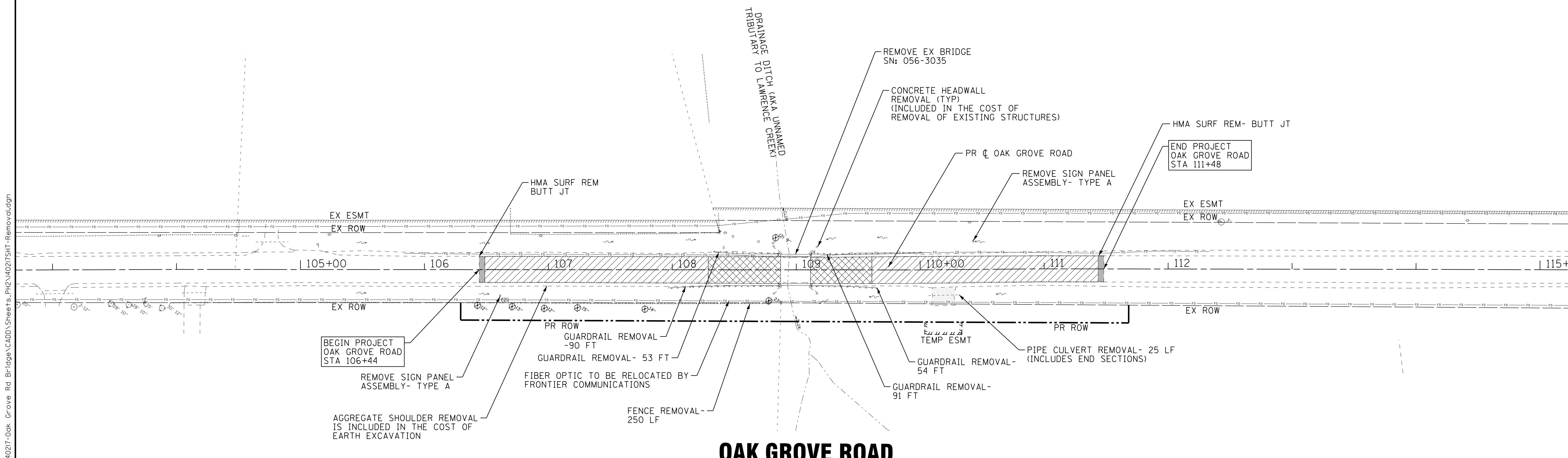
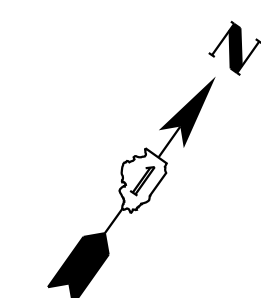
**ALIGNMENT, TIES AND BENCHMARKS**

SCALE: 1" = 40'

STA. 103+00 TO STA. 114+00

TR	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
0135	14-00433-00-BR	MCHENRY	40	8
FED. ROAD DIST. NO. ILLINOIS FED. AID PROJECT			CONTRACT NO. 61E23	





**OAK GROVE ROAD**

- LEGEND:**
- FIELD ENTRANCE REMOVAL (INCLUDED IN THE COST OF EARTH EXCAVATION)
  - HOT-MIX ASPHALT SURFACE REMOVAL - 2 1/4"
  - PAVEMENT REMOVAL
  - FENCE REMOVAL
  - TREE REMOVAL

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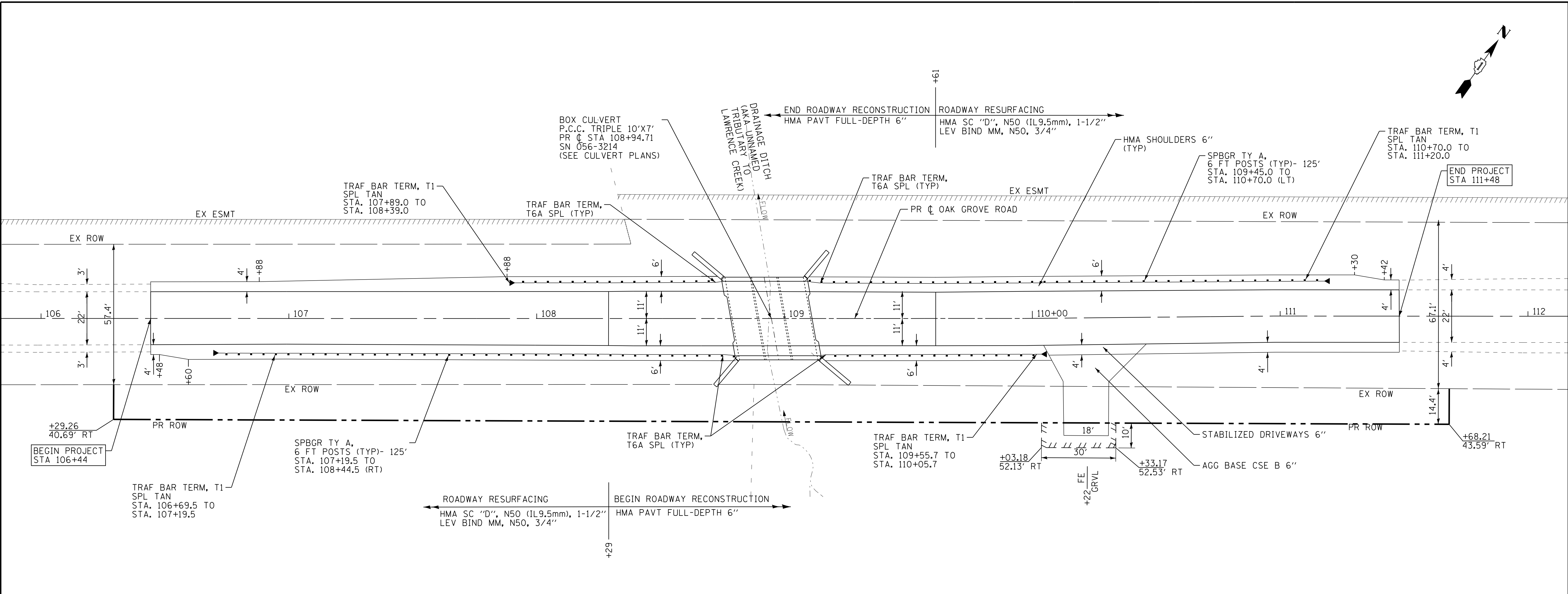
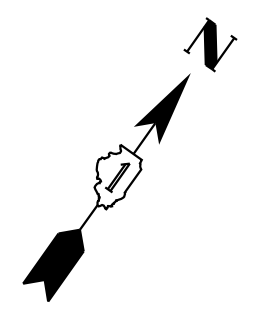
DESIGNED - JDM	REVISED -
DRAWN - KAR	REVISED -
CHECKED - DTH	REVISED -
DATE - 09-29-17	FILE - 140217SHT-Removal.dgn

**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

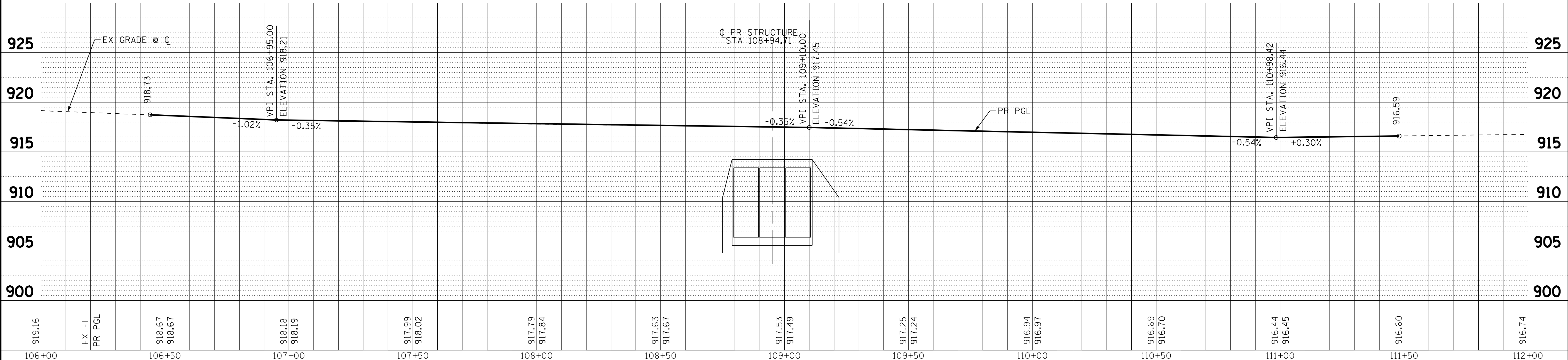
**EXISTING CONDITIONS AND REMOVAL PLAN**

SCALE: 1" = 40'      STA. 103+00 TO STA. 114+00

TR	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
0135	14-00433-00-BR	MCHENRY	40	9
FED. ROAD DIST. NO. ILLINOIS FED. AID PROJECT			CONTRACT NO. 61E23	



**OAK GROVE ROAD**



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DRAWN - KAR	REVISED -
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DATE - 09-29-17	FILE - 140217SHT-PP01.dgn

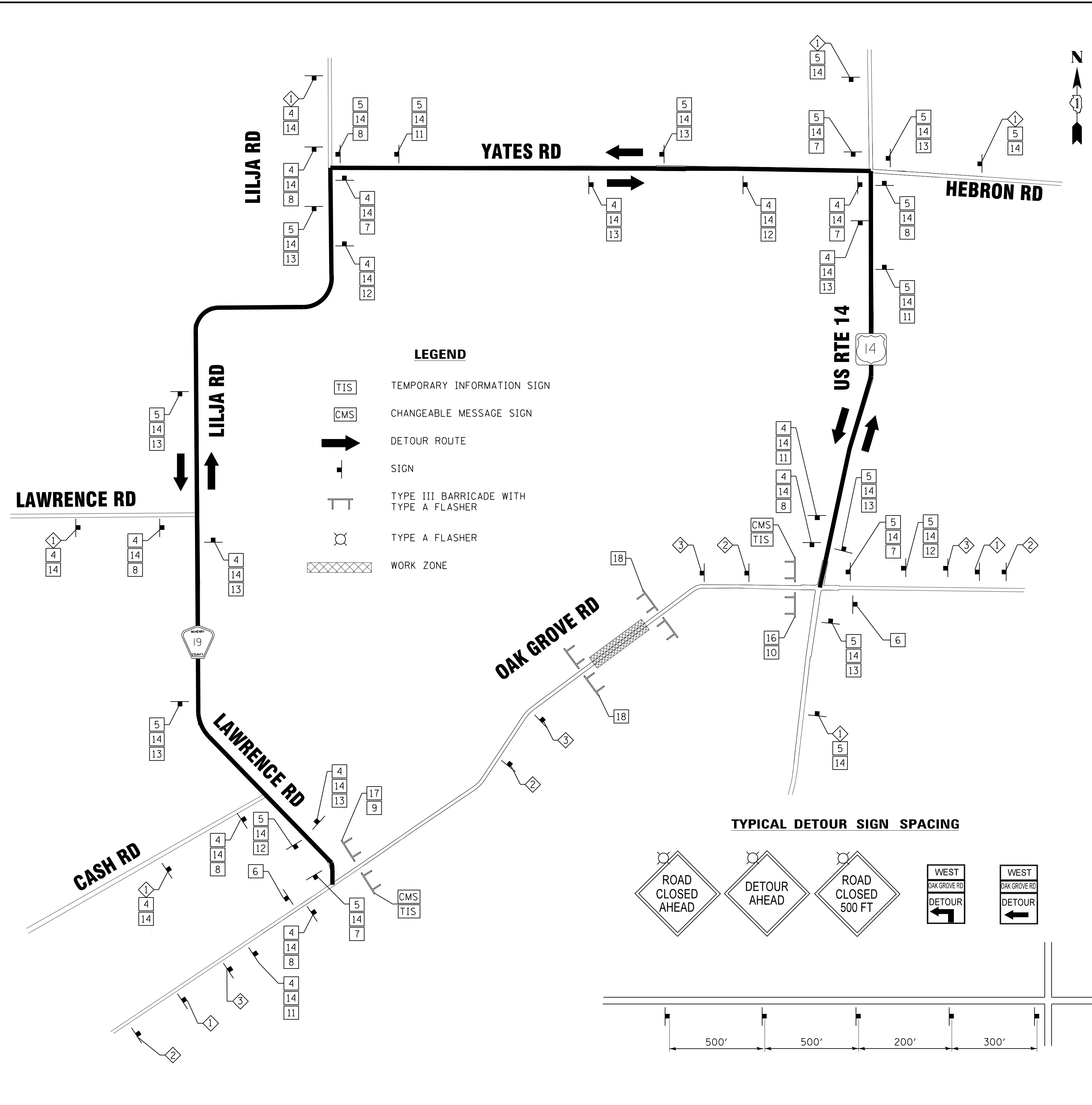
STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION

**PLAN AND PROFILE**

SCALE: H: 1"=20' V: 1"=5'  
STA. 106+00 TO STA. 112+00

TR. RTE. 0135	SECTION 14-00433-00-BR	COUNTY MCHENRY	TOTAL SHEETS 40	SHEET NO. 10
FED. ROAD DIST. NO.		ILLINOIS FED. AID PROJECT		
		CONTRACT NO. 61E23		

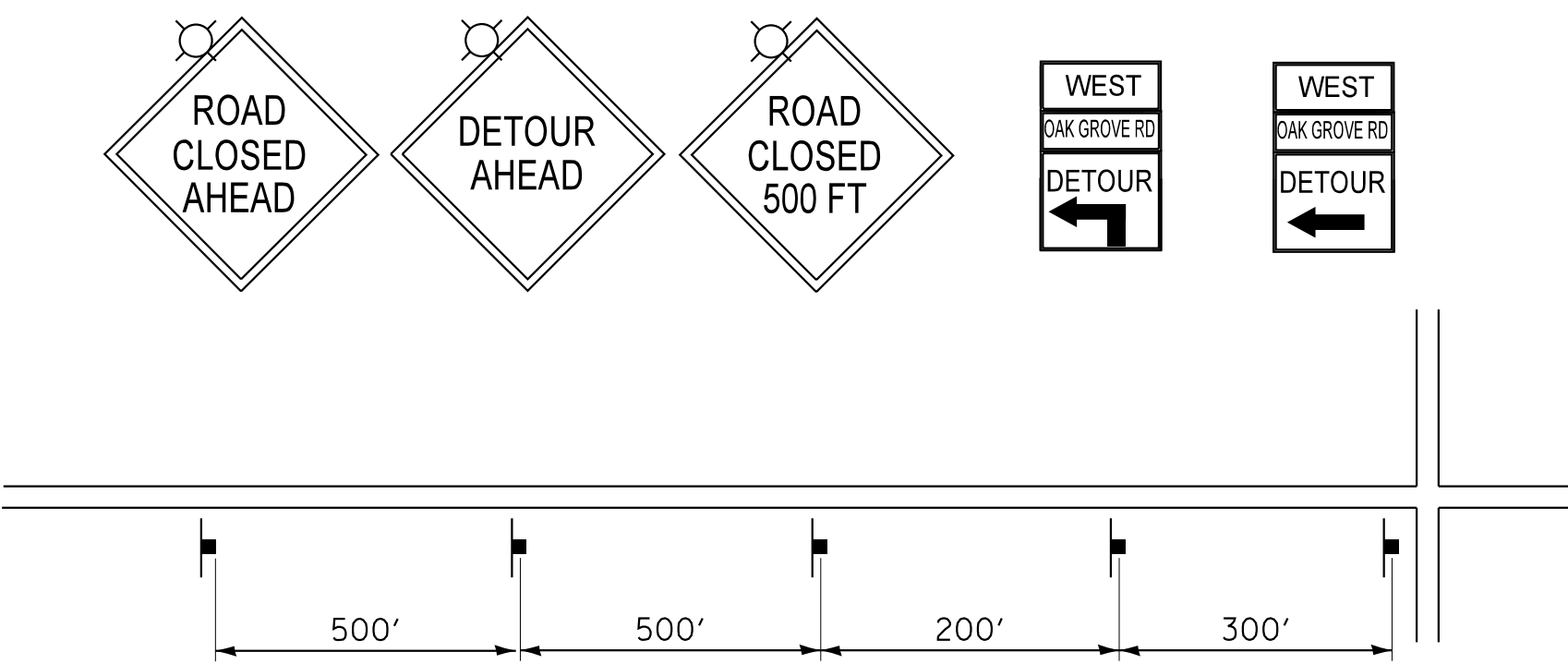
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**LEGEND**

- TEMPORARY INFORMATION SIGN
- CHANGEABLE MESSAGE SIGN
- DETOUR ROUTE
- SIGN
- TYPE III BARRICADE WITH TYPE A FLASHER
- TYPE A FLASHER
- WORK ZONE

**TYPICAL DETOUR SIGN SPACING**



**SIGN DETAILS**

- DETOUR AHEAD W20-2-4848
- ROAD CLOSED AHEAD W20-3-4848
- ROAD CLOSED 500 FT W20-3-4848
- EAST M3-2(0)-2412
- WEST M3-4(0)-2412
- END DETOUR M4-8A-2418
- DETOUR M4-9 SERIES 3024
- DETOUR M4-9 SERIES 3024
- DETOUR M4-10L-4818
- DETOUR M4-10R-4818
- DETOUR M4-9 SERIES-3024
- DETOUR M4-9 SERIES-3024
- DETOUR M4-9 SERIES-3024
- Oak Grove Rd SPECIAL-VAR MIN 5" UPPERCASE BLACK LETTERS ON ORANGE REFLECTIVE BACKGROUND
- ROAD CLOSED R11-2-4830
- BRIDGE OUT 0.8 MILES AHEAD LOCAL TRAFFIC ONLY R11-3B-6030
- BRIDGE OUT 1.4 MILES AHEAD LOCAL TRAFFIC ONLY R11-3B-6030
- BRIDGE OUT R11-2-4830
- ROAD WILL BE CLOSED FROM XXXXX THRU XXXXX TEMPORARY INFORMATION SIGN (SEE SHEET 29 FOR DETAIL)

**MAINTENANCE OF TRAFFIC NOTES:**

- DURING CONSTRUCTION STAGING OPERATIONS, THE HARVARD POLICE, FIRE, AND PUBLIC WORKS DEPARTMENT, CHEMUNG TOWNSHIP AND THE COUNTY SHERIFF SHALL BE NOTIFIED IN WRITING 48 HOURS PRIOR TO STREET CLOSURES ON OAK GROVE ROAD. LISTED ON SHEET 2.
- THE ENGINEER SHALL BE INFORMED 48 HOURS IN ADVANCE OF ANY CHANGE IN CONSTRUCTION STAGING.
- THE FURNISHING, INSTALLING, AND RELOCATION OF ALL TRAFFIC SIGNS SHALL BE INCLUDED IN THE COST OF TRAFFIC CONTROL AND PROTECTION (SPECIAL). ALL CONFLICTING TRAFFIC SIGNS SHALL BE COVERED AS DETERMINED BY THE ENGINEER. THIS SHALL BE INCLUDED IN THE COST OF TRAFFIC CONTROL AND PROTECTION (SPECIAL).
- THE CONTRACTOR SHALL MAINTAIN EMERGENCY VEHICLE AND LOCAL TRAFFIC DURING THE CONSTRUCTION OF OAK GROVE ROAD OVER DRAINAGE DITCH. THE COST FOR MAINTAINING ACCESS ON OAK GROVE ROAD SHALL BE INCLUDED IN THE COST OF TRAFFIC CONTROL AND PROTECTION (SPECIAL).
- THE CONTRACTOR SHALL PROVIDE TEMPORARY ACCESS TO ALL ENTRANCES DURING THE CONSTRUCTION OF OAK GROVE ROAD OVER DRAINAGE DITCH. THIS WORK SHALL BE PAID FOR AT THE CONTRACT UNIT PRICE PER EACH FOR TEMPORARY ACCESS (FIELD ENTRANCE).
- REFER TO DISTRICT DETAIL TC-21 FOR TYPICAL SIGN LAYOUT AND SPACING.
- ONE TEMPORARY INFORMATION SIGN ASSEMBLY EQUALS 27.3 SQ FT AND SHALL BE PAID FOR AS TEMPORARY INFORMATION SIGNING.

DESIGNED - JDM	REVISED -
DRAWN - KAR	REVISED -
CHECKED - DTH	REVISED -
DATE - 09-29-17	FILE - 140217SHT-DeTourPlan.dgn

**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

**TEMPORARY DETOUR PLAN**

SCALE: NONE

STA. TO STA.

TR	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
0135	14-00433-00-BR	MCHENRY	40	11
		CONTRACT NO. 61E23		
FED. ROAD DIST. NO.		ILLINOIS FED. AID PROJECT		



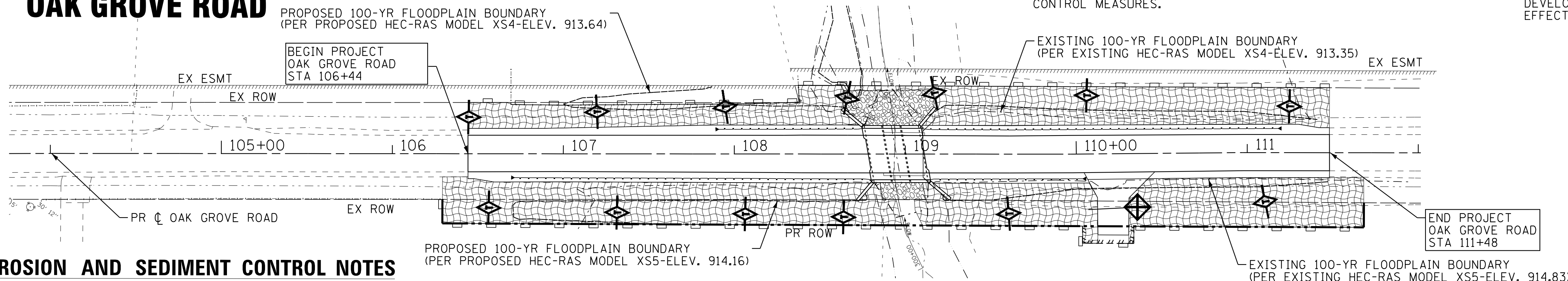
**MAINTENANCE SCHEDULE**

- PERIMETER EROSION BARRIER - AT A MINIMUM, THE CONTRACTOR SHALL INSPECT ALL PERIMETER EROSION BARRIER WEEKLY OR AFTER EACH ONE-HALF INCH OR GREATER RAINFALL EVENT. ANY REQUIRED REPAIRS SHALL BE MADE BY THE CONTRACTOR TO KEEP THE PERIMETER EROSION BARRIER FUNCTIONAL AS DESIGNED.
- EROSION CONTROL BLANKET - AT A MINIMUM, THE CONTRACTOR SHALL INSPECT ALL EROSION BLANKET WEEKLY OR AFTER EACH ONE-HALF INCH OR GREATER RAINFALL EVENT. ANY REQUIRED REPAIRS SHALL BE MADE BY THE CONTRACTOR TO KEEP THE EROSION BLANKET FUNCTIONAL AS DESIGNED.
- INLET AND PIPE PROTECTION - AT A MINIMUM, THE CONTRACTOR SHALL INSPECT ALL INLET AND PIPE PROTECTION WEEKLY OR AFTER EACH ONE-HALF INCH OR GREATER RAINFALL EVENT. ANY REQUIRED REPAIRS SHALL BE MADE BY THE CONTRACTOR TO KEEP THE INLET AND PIPE PROTECTION FUNCTIONAL AS DESIGNED.
- TEMPORARY DITCH CHECK - AT A MINIMUM, THE CONTRACTOR SHALL INSPECT ALL DITCH CHECKS WEEKLY OR AFTER EACH ONE-HALF INCH OR GREATER RAINFALL EVENT. ANY REQUIRED REPAIRS SHALL BE MADE BY THE CONTRACTOR TO KEEP THE DITCH CHECKS FUNCTIONAL AS DESIGNED. REMOVE SEDIMENT FROM UPSTREAM SIDE OF DITCH CHECK WHEN SEDIMENT HAS REACHED 50% OF STRUCTURE HEIGHT.

**MCHENRY COUNTY STANDARD SOIL EROSION AND SEDIMENT CONTROL NOTES**

- CONTROL MEASURES SHALL MEET THE MINIMUM STANDARDS AND SPECIFICATIONS OF THE ILLINOIS URBAN MANUAL (WWW.AISWCD.ORG/IUM) UNLESS STATED OTHERWISE.
- SOIL DISTURBANCE SHALL BE CONDUCTED IN SUCH A MANNER AS TO MINIMIZE EROSION. AREAS OF THE DEVELOPMENT SITE THAT ARE NOT TO BE DISTURBED SHALL BE PROTECTED FROM CONSTRUCTION TRAFFIC OR OTHER DISTURBANCE UNTIL FINAL STABILIZATION IS ACHIEVED.
- SOIL STABILIZATION MEASURES SHALL CONSIDER THE TIME OF YEAR, DEVELOPMENT SITE CONDITIONS AND THE USE OF TEMPORARY OR PERMANENT MEASURES.
- STABILIZATION BY SEEDING SHALL INCLUDE TOPSOIL PLACEMENT AND FERTILIZATION, AS NECESSARY.
- NATIVE SEED MIXTURES SHALL INCLUDE RAPID-GROWING ANNUAL GRASSES OR SMALL GRAINS TO PROVIDE INITIAL, TEMPORARY SOIL STABILIZATION.
- OFFSITE PROPERTY SHALL BE PROTECTED FROM EROSION AND SEDIMENTATION. VELOCITY DISSIPATION DEVICES SHALL BE PLACED AT CONCENTRATED DISCHARGE LOCATIONS AND ALONG THE LENGTH OF ANY OUTFALL CHANNEL, AS NECESSARY TO PREVENT EROSION.
- SEDIMENT CONTROL MEASURES SHALL BE INSTALLED PRIOR TO THE DISTURBANCE OF TRIBUTARY AREAS.
- STABILIZATION OF DISTURBED AREAS SHALL BE INITIATED IMMEDIATELY WHENEVER ANY CLEARING, GRADING, EXCAVATING OR OTHER EARTH DISTURBING ACTIVITIES HAVE PERMANENTLY CEASED OR ANY PORTION OF THE DEVELOPMENT SITE, OR TEMPORARILY CEASED ON ANY PORTION OF THE DEVELOPMENT SITE AND WILL NOT RESUME FOR A PERIOD EXCEEDING 14 CALENDAR DAYS. STABILIZATION OF DISTURBED AREAS SHALL BE INITIATED WITHIN 1 WORKING DAY OF PERMANENT OR TEMPORARY CESSATION OF EARTH DISTURBING ACTIVITIES AND SHALL BE COMPLETED AS SOON AS POSSIBLE, BUT NOT LATER THAN 14 CALENDAR DAYS FROM THE INITIATION OF STABILIZATION WORK IN AN AREA. EXCEPTIONS TO THESE TIME FRAMES ARE SPECIFIED BELOW:
  - WHERE THE INITIATION OF STABILIZATION MEASURES IS PRECLUDED BY SNOW COVER, STABILIZATION MEASURES SHALL BE INITIATED AS SOON AS PRACTICABLE; AND
  - IN AREAS WHERE CONSTRUCTION ACTIVITY HAS TEMPORARILY CEASED AND WILL RESUME AFTER 14 DAYS, A TEMPORARY STABILIZATION METHOD MAY BE USED.
- DISTURBANCE OF STEEP SLOPES SHALL BE MINIMIZED. AREAS OR EMBANKMENTS HAVING SLOPES STEEPER THAN 1:3 SHALL BE STABILIZED WITH STAKED IN PLACE SOD, EROSION CONTROL BLANKET IN COMBINATION WITH SEEDING, OR AN EQUIVALENT CONTROL MEASURE.
- PERIMETER CONTROL MEASURES SHALL BE PROVIDED DOWNSLOPE AND PERPENDICULAR TO THE FLOW OF RUNOFF FROM DISTURBED AREAS, WHERE THE TRIBUTARY AREA IS GREATER THAN 5,000 SQUARE FEET, AND WHERE RUNOFF WILL FLOW IN A SHEET FLOW MANNER. PERIMETER EROSION CONTROL SHALL ALSO BE PROVIDED AT THE BASE OF SOIL STOCKPILES.
- THE STORMWATER MANAGEMENT SYSTEM SHALL BE PROTECTED FROM EROSION AND SEDIMENTATION DOWNSLOPE FROM DISTURBED AREAS. INLET PROTECTION THAT REDUCES SEDIMENT LOADING, WHILE ALLOWING RUNOFF TO ENTER THE INLET SHALL BE REQUIRED FOR ALL STORM SEWERS, CHECK DAMS, OR AN EQUIVALENT CONTROL MEASURE, SHALL BE REQUIRED FOR ALL CHANNELS. FILTER FABRIC INLET PROTECTION AND STRAW BALE DITCH CHECKS ARE NOT ACCEPTABLE CONTROL MEASURES.
- IF DEWATERING SERVICES ARE USED, DISCHARGES SHALL BE ROUTED THROUGH AN EFFECTIVE SEDIMENT CONTROL MEASURE (E.G., SEDIMENT TRAP OR AN EQUIVALENT CONTROL MEASURE). THE ENFORCEMENT OFFICER SHALL BE NOTIFIED PRIOR TO THE COMMENCEMENT OF DEWATERING ACTIVITIES.
- ALL TEMPORARY SOIL EROSION AND SEDIMENT CONTROL MEASURES SHALL BE REMOVED WITHIN 30 DAYS AFTER FINAL STABILIZATION OF THE DEVELOPMENT SITE IS ACHIEVED OR AFTER THE TEMPORARY MEASURES ARE NO LONGER NECESSARY. TRAPPED SEDIMENT SHALL BE REMOVED AND DISTURBED AREAS SHALL BE PERMANENTLY STABILIZED.
- STOCKPILED SOIL AND MATERIALS SHALL BE REMOVED FROM FLOOD HAZARD AREAS AT THE END OF EACH WORK DAY. SOIL AND MATERIALS STOCKPILED IN IWMC OR BUFFER AREAS SHALL BE PLACED ON TIMBER MATS, OR AN EQUIVALENT CONTROL MEASURE.
- EFFECTIVE CONTROL MEASURES SHALL BE UTILIZED TO MINIMIZE THE DISCHARGE OF POLLUTANTS FROM THE DEVELOPMENT SITE. AT A MINIMUM, CONTROL MEASURES SHALL BE IMPLEMENTED IN ORDER TO:
  - MINIMIZE THE DISCHARGE OF POLLUTANTS FROM EQUIPMENT AND VEHICLE WASHING, WHEEL WASH WATER, AND OTHER WASH WATER; AND
  - MINIMIZE THE EXPOSURE OF BUILDING MATERIALS, BUILDING PRODUCTS, CONSTRUCTION WASTES, TRASH, LANDSCAPE MATERIALS, FERTILIZERS, PESTICIDES, HERBICIDES, DETERGENTS, VEHICLE FLUIDS, SANITARY WASTE, AND OTHER MATERIALS PRESENT ON THE DEVELOPMENT SITE TO PRECIPITATION AND TO STORMWATER.
- ADEQUATE RECEPTACLES SHALL BE PROVIDED FOR THE DEPOSITING OF ALL CONSTRUCTION MATERIAL DEBRIS GENERATED DURING THE DEVELOPMENT PROCESS. THE APPLICANT SHALL NOT CAUSE OR PERMIT THE DUMPING, DEPOSITING, DROPPING, THROWING, DISCARDING OR LEAVING OF CONSTRUCTION MATERIAL DEBRIS UPON OR INTO ANY DEVELOPMENT SITE, CHANNEL, OR IWMC. THE DEVELOPMENT SITE SHALL BE MAINTAINED FREE OF CONSTRUCTION MATERIAL DEBRIS.
- THE ENFORCEMENT OFFICER MAY REQUIRE ADDITIONAL OR ALTERNATE SOIL EROSION AND SEDIMENT CONTROL MEASURES, BASED ON DEVELOPMENT SITE SPECIFIC CONSIDERATIONS AND THE EFFECTIVENESS OF THE INSTALLED CONTROL MEASURES.

**OAK GROVE ROAD**



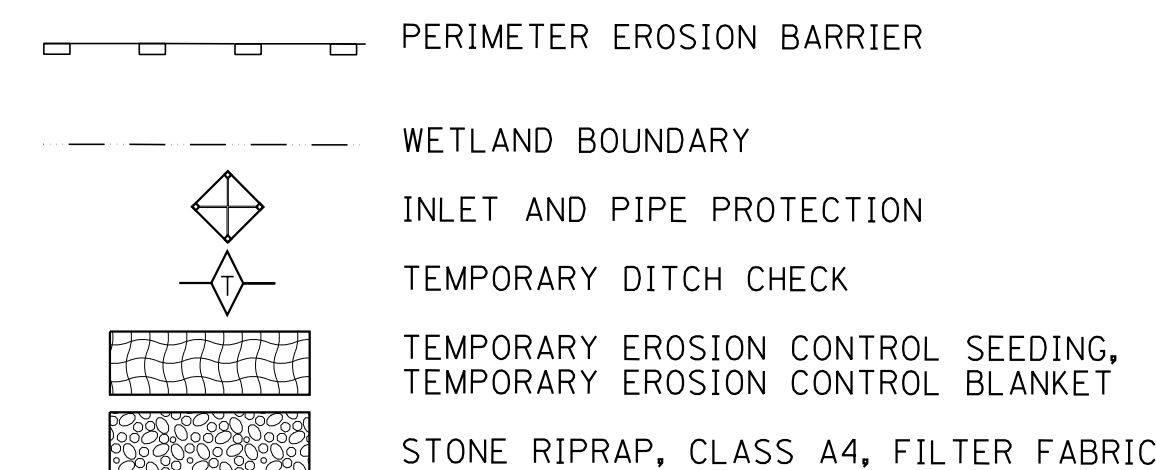
**GENERAL SOIL EROSION AND SEDIMENT CONTROL NOTES**

- ALL TEMPORARY AND PERMANENT EROSION CONTROL MEASURES MUST BE MAINTAINED AND REPAIRED AS NEEDED. THE CONTRACTOR SHALL BE ULTIMATELY RESPONSIBLE FOR MAINTENANCE AND REPAIR OF EROSION CONTROL MEASURES.
- IF DEWATERING SERVICES ARE USED, ADJOINING PROPERTIES AND DISCHARGE LOCATIONS SHALL BE PROTECTED FROM EROSION. DEWATERING DIRECTLY INTO STREAMS, WETLANDS, FIELD TILES OR STORM WATER STRUCTURES IS PROHIBITED.
- THE EROSION CONTROL MEASURES INDICATED ON THE PLANS ARE THE MINIMUM REQUIREMENTS. THE CONTRACTOR IS RESPONSIBLE FOR INSTALLATION OF ANY ADDITIONAL EROSION CONTROL MEASURES NECESSARY TO PREVENT EROSION AND SEDIMENTATION AS DETERMINED BY THE MCHENRY-LAKE COUNTY SWCD, ENGINEER, OR LOCAL AGENCY.
- THE CONTRACTOR SHALL ARRANGE A PRE-CONSTRUCTION MEETING WITH MCHENRY-LAKE COUNTY SOIL AND WATER CONSERVATION DISTRICT AND OTHER INTERESTED REGULATORY AGENCIES AND OFFICIALS PRIOR TO CONSTRUCTION.
- THE CONTRACTOR SHALL COMPLY WITH REQUIREMENTS FROM THE U.S. ARMY CORPS OF ENGINEERS, MCHENRY-LAKE COUNTY SOIL AND WATER CONSERVATION DISTRICT, MCHENRY COUNTY DIVISION OF TRANSPORTATION, AND THE MCHENRY COUNTY STORMWATER MANAGEMENT ORDINANCE.
- WORK IN THE WATERWAY SHOULD BE TIMED TO TAKE PLACE DURING LOW OR NO-FLOW CONDITIONS.
- WORK MAY NOT BE PERFORMED IN THE WATER, EXCEPT FOR THE PLACEMENT OF MATERIALS NECESSARY FOR THE CONSTRUCTION OF COFFERDAMS. TEMPORARY COFFERDAMS MAY BE REQUIRED BY THE ENFORCEMENT OFFICER. ALL MATERIALS FOR COFFERDAMS AND ANY FILLS USED MUST BE NON-ERODABLE AND CONSTRUCTED TO WITHSTAND EXPECTED HIGH FLOWS. THE COFFERDAM MUST BE DESIGNED TO ALLOW FOR THE CONVEYANCE OF THE 2-YEAR PEAK FLOW PAST THE WORK AREA WITHOUT OVERTOPPING THE COFFERDAM. LOW GROUND-PRESSURE EQUIPMENT IS REQUIRED FOR WORK IN WETLANDS. LUMBER TO BE USED FOR TEMPORARY CONSTRUCTION ACTIVITIES MUST BE FREE OF ALL CHEMICAL TREATMENT. THE COFFERDAMS MUST BE CONSTRUCTED FROM THE UPLAND AREA AND NO EQUIPMENT MAY ENTER THE WATER AT ANY TIME. ONCE THE COFFERDAMS ARE IN PLACE AND ISOLATED AREA IS DEWATERED, EQUIPMENT MAY ENTER THE COFFERED AREA TO PERFORM THE REQUIRED WORK.
- IF BYPASS PUMPING IS NECESSARY, THE PUMP SHALL BE PLACED ON A STABLE SURFACE OR FLOATED TO PREVENT SEDIMENT FROM BEING SUCKED INTO THE HOSE. THE BYPASS DISCHARGE SHALL BE PLACED ON A NON-ERODIBLE, ENERGY DISSIPATING SURFACE (ROCK CHECK DAM, PLYWOOD, SHEET PILE, ETC.) PRIOR TO REJOINING THE STREAM FLOW AND SHALL NOT CAUSE EROSION OF DOWNSTREAM AREAS. CLEANING OR FILTERING OF BYPASS WATER IS NOT NECESSARY UNLESS THE BYPASS WATER HAS BECOME SEDIMENT LADEN AS A RESULT OF THE CURRENT CONSTRUCTION ACTIVITIES.
- PRIOR TO COMMENCING LAND-DISTURBING ACTIVITIES IN AREAS OTHER THAN INDICATED ON THESE PLANS (INCLUDING BUT NOT LIMITED TO, ADDITIONAL PHASES OF DEVELOPMENT AND OFF-SITE BORROW OR WASTE AREAS) A SUPPLEMENTARY EROSION CONTROL PLAN SHALL BE SUBMITTED FOR REVIEW BY THE MCHENRY-LAKE COUNTY SWCD.
- THE DISTURBED AREA, INCLUDING BED AND BANKS, SHALL BE STABILIZED WITH EROSION CONTROL BLANKET IN COMBINATION WITH SEEDING, OR AN EQUIVALENT CONTROL MEASURE NO MORE THAN 48 HOURS AFTER DISTURBANCE IS COMPLETED OR INTERRUPTED.
- THE PORTION OF THE SIDE SLOPE THAT IS ABOVE THE OBSERVED WATER ELEVATION SHALL BE STABILIZED AS SPECIFIED IN THE PLANS PRIOR TO ACCEPTING FLOWS. THE SUBSTRATE AND TOE OF SLOPE THAT HAS BEEN DISTURBED DUE TO CONSTRUCTION ACTIVITIES SHALL BE RESTORED TO PROPOSED OR PRE-CONSTRUCTION CONDITIONS AND FULLY STABILIZED PRIOR TO ACCEPTING FLOWS.
- CONCRETE WASHOUT FACILITIES SHALL BE INSTALLED, OPERATED AND MAINTAINED IN ACCORDANCE WITH THE ILLINOIS URBAN MANUAL.
- ALL ADJACENT ROADWAYS MUST BE KEPT CLEAR OF DEBRIS, INSPECTED DAILY AND CLEANED WHEN NECESSARY.
- A COPY OF THE APPROVED EROSION AND SEDIMENT CONTROL PLAN SHALL BE MAINTAINED ON THE SITE AT ALL TIMES.
- FINAL ACCEPTANCE OF PROJECT WILL BE CONTINGENT ON RECORD DRAWING APPROVAL BY THE ENGINEER.

**SUGGESTED CONSTRUCTION SEQUENCING**

- INSTALL SEDIMENT AND EROSION CONTROL SYSTEMS.
- COMPLETE CLEARING AND GRUBBING.
- STRIP AND STOCKPILE TOPSOIL AND BEGIN MASS GRADING. TEMPORARY SEED AS REQUIRED.
- DEMOLISH EXISTING STRUCTURE WITHOUT IMPACT OR DEBRIS ENTERING THE EXISTING WATERWAY.
- CONSTRUCT UNDERWATER STRUCTURE EXCAVATION PROTECTION AND INSTALL STRUCTURE.
- COMPLETE ROADWAY REPLACEMENT THRU BINDER AND GRADING.
- COMPLETE FINAL SURFACE, PAVEMENT MARKINGS, AND RESTORATION.
- REMOVE EROSION CONTROL MEASURES AND RESTORE.

**LEGEND**



STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION

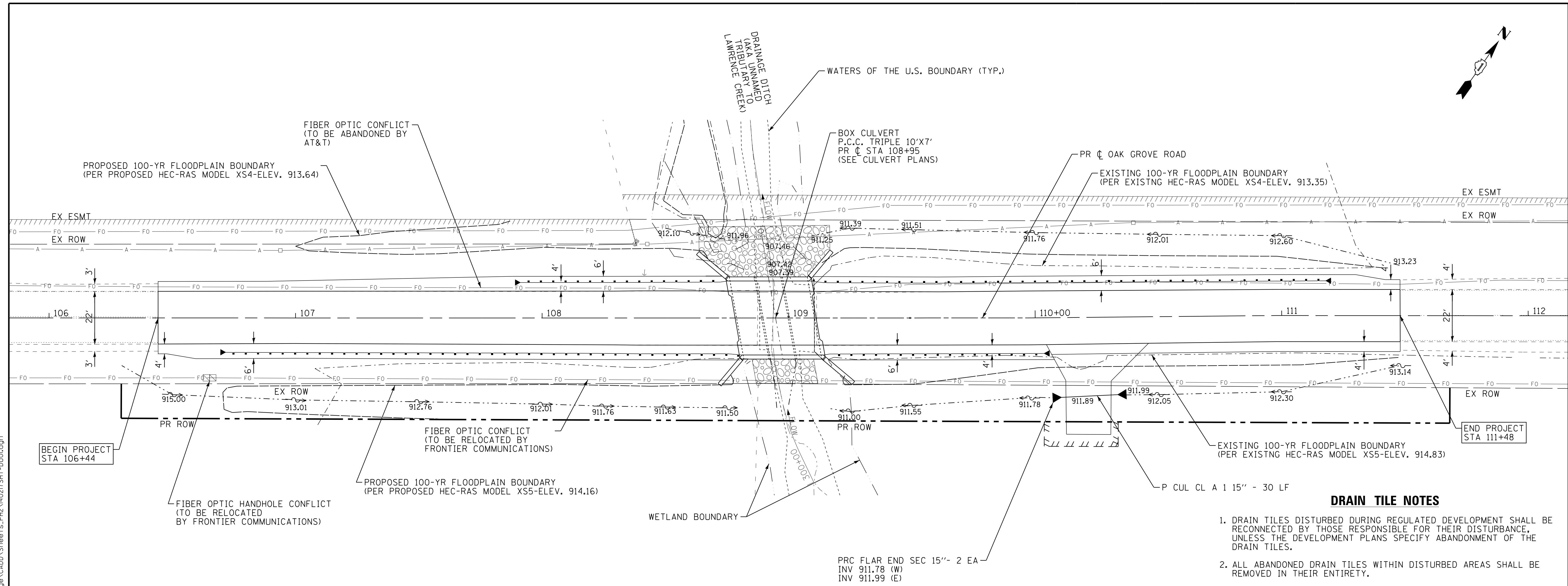
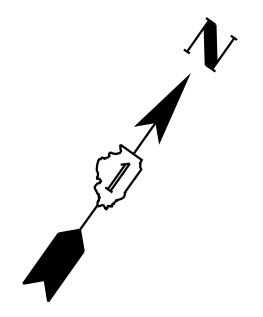
**EROSION AND SEDIMENT CONTROL PLAN**

SCALE: 1" = 40'      STA. 103+00 TO STA. 114+00

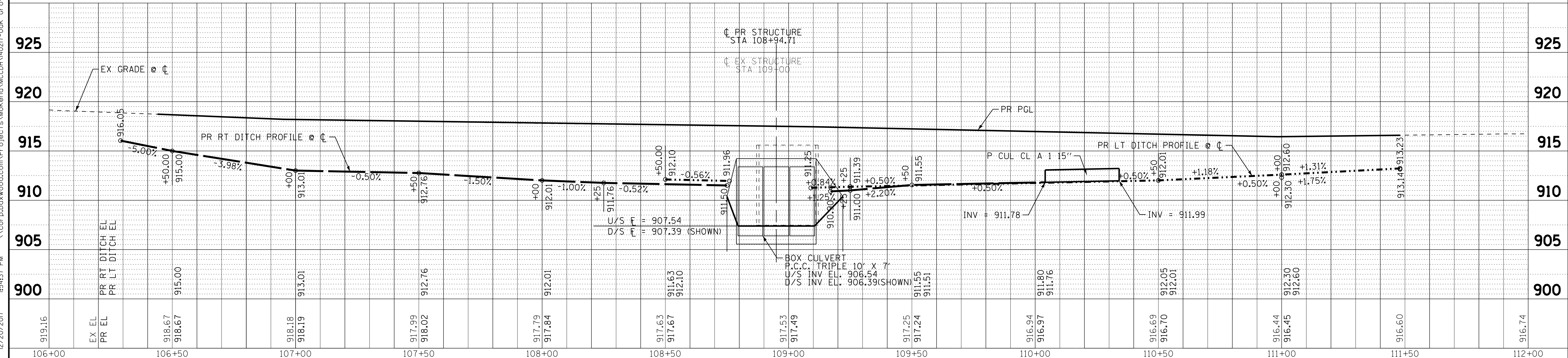
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0135	14-00433-00-BR	MCHENRY	40	12
FED. ROAD DIST. NO. ILLINOIS FED. AID PROJECT			CONTRACT NO. 61E23	

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**OAK GROVE ROAD**



**DRAIN TILE NOTES**

1. DRAIN TILES DISTURBED DURING REGULATED DEVELOPMENT SHALL BE RECONNECTED BY THOSE RESPONSIBLE FOR THEIR DISTURBANCE, UNLESS THE DEVELOPMENT PLANS SPECIFY ABANDONMENT OF THE DRAIN TILES.
2. ALL ABANDONED DRAIN TILES WITHIN DISTURBED AREAS SHALL BE REMOVED IN THEIR ENTIRETY.
3. DRAIN TILES WITHIN THE DISTURBED AREA OF A DEVELOPMENT SITE SHALL BE REPLACED, BYPASSED AROUND THE DEVELOPMENT SITE OR INTERCEPTED AND CONNECTED TO THE STORMWATER MANAGEMENT SYSTEM FOR THE DEVELOPMENT SITE.

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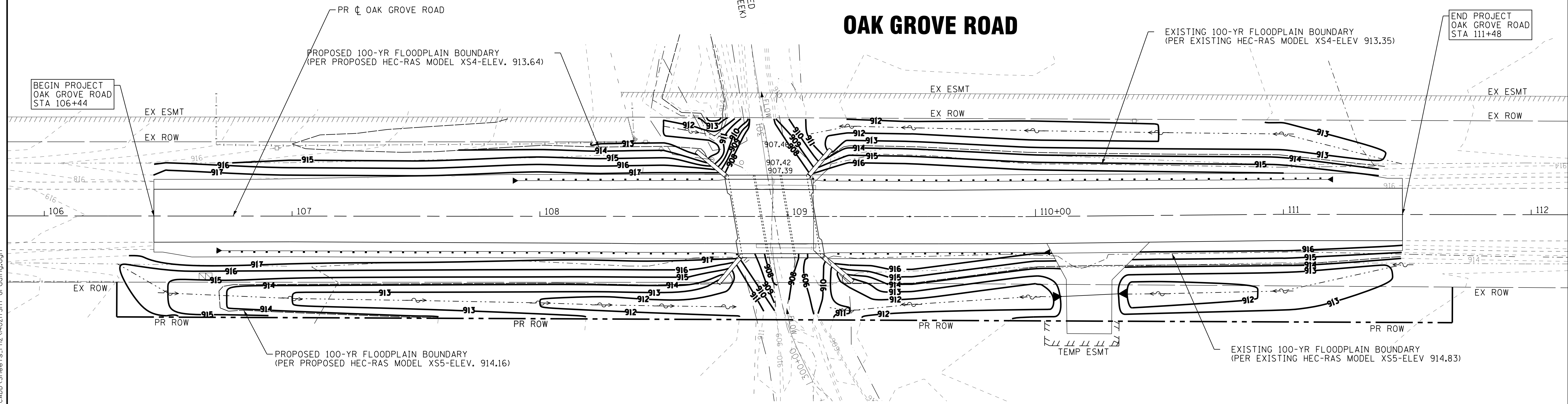
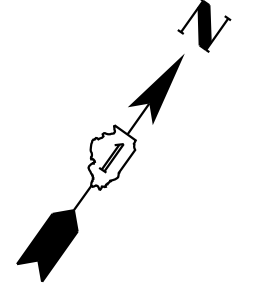
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STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION

**DRAINAGE AND UTILITY PLAN**

SCALE: H: 1"=20' V: 1"=5'  
STA. 106+00 TO STA. 112+00

TR. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
0135	14-00433-00-BR	MCHENRY	40	13
FED. ROAD DIST. NO.			ILLINOIS FED. AID PROJECT	
			CONTRACT NO. 61E23	



BEGIN PROJECT  
OAK GROVE ROAD  
STA 106+44

END PROJECT  
OAK GROVE ROAD  
STA 111+48

**LEGEND**

- 917--- EXISTING CONTOURS
- 917—— PROPOSED CONTOURS

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DATE - 09-29-17	FILE - 140217SHT-Grading.dgn

**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

**GRADING PLAN**

SCALE: 1" = 20'

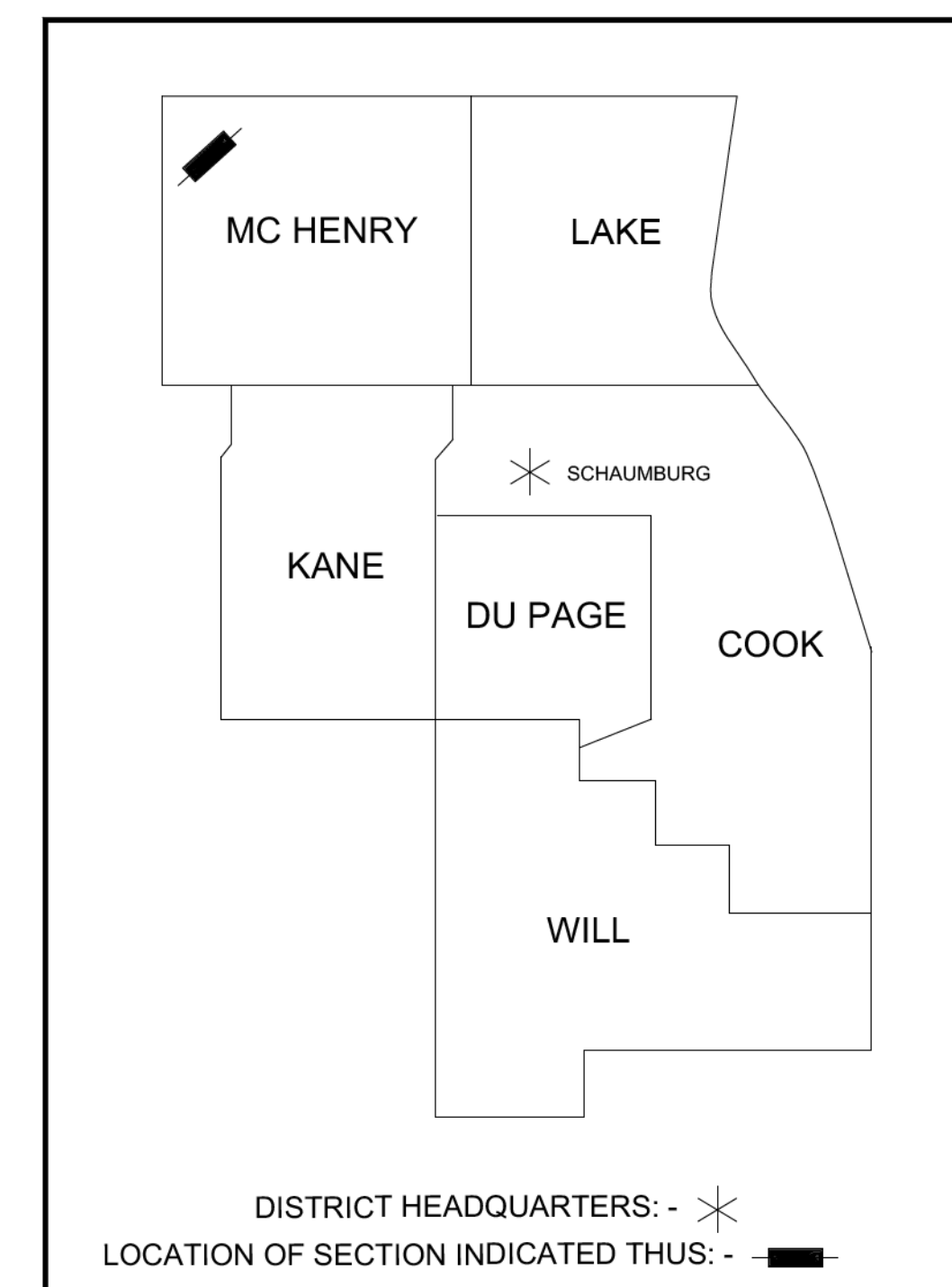
STA. 107+35 TO STA. 110+55

TR	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
0135	14-00433-00-BR	MCHENRY	40	14
FED. ROAD DIST. NO. ILLINOIS FED. AID PROJECT			CONTRACT NO. 61E23	

STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION  
DIVISION OF HIGHWAYS  
**PLAT OF HIGHWAYS**

ROUTE: OAK GROVE ROAD  
SECTION: 14-00433-00-BR  
COUNTY: MCHENRY  
LIMITS: OVER DRAINAGE DITCH  
JOB NO.: R-55-001-97

PARCEL NUMBER	OWNER	SHEET NUMBER	PROPERTY ACQUIRED BY
0001	David R. Zoellick and Jennifer J. Zoellick	2	
0002	Clarence W. Shultz and Isabel S. Shultz Land Trust dated August 21, 2007	2	



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OAK GROVE ROAD  
BEGIN IMPROVEMENTS  
STA 100+00

RANGE 5 EAST



OAK GROVE ROAD  
END IMPROVEMENTS  
STA 119+60.29

LOCATION MAP

Gross & Net Length = 1,960 Lin. Ft. = 0.371 Miles (Oak Grove Road)

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STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION

PLATS OF HIGHWAY

SCALE: NONE

STA.

TO STA.

TR	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
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FED. ROAD DIST. NO.			ILLINOIS FED. AID PROJECT	
			CONTRACT NO. 61E23	

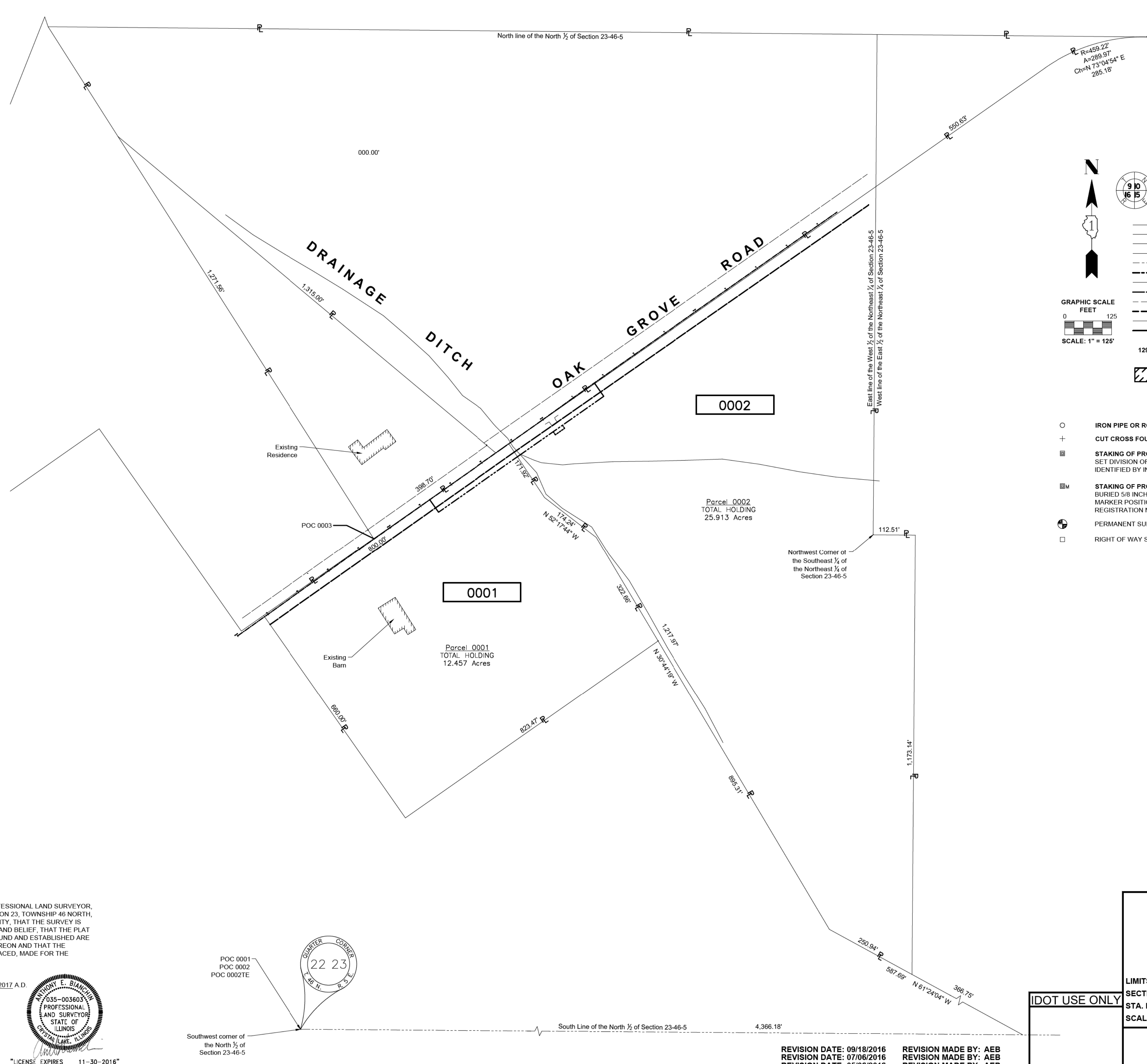
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PART OF SECTION 23, TOWNSHIP 46 NORTH, RANGE 5, EAST OF THIRD PRINCIPAL MERIDIAN, IN MCHENRY COUNTY, ILLINOIS



**LEGEND**

- SECTION / QUARTER SECTION LINE
- PLATTED LOT LINES
- PROPERTY (DEED) LINE
- APPARENT PROPERTY LINE
- EXISTING CENTERLINE
- PROPOSED CENTERLINE
- EXISTING RIGHT OF WAY LINE
- PROPOSED RIGHT OF WAY LINE
- EXISTING EASEMENT
- PROPOSED EASEMENT
- EXISTING ACCESS CONTROL LINE
- PROPOSED ACCESS CONTROL LINE
- MEASURED DIMENSION
- COMPUTED DIMENSION
- RECORDED DIMENSION
- EXISTING BUILDING

GRAPHIC SCALE  
FEET 0 125  
SCALE: 1" = 125'

IRON PIPE OR ROD FOUND  
CUT CROSS FOUND OR SET  
STAKING OF PROPOSED RIGHT OF WAY.  
SET DIVISION OF HIGHWAYS SURVEY MARKER TO MONUMENT THE POSITION SHOWN. IDENTIFIED BY INSCRIPTION DATA AND SURVEYOR'S REGISTRATION NUMBER.  
STAKING OF 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 COLORED PLASTIC CAP BEARING SURVEYOR'S REGISTRATION NUMBER.  
PERMANENT SURVEY MARKER, I.D.O.T. STANDARD 2135 (TO BE SET BY OTHERS)  
RIGHT OF WAY STAKING PROPOSED TO BE SET

"MAG" NAIL SET  
5/8" REBAR SET

**Notes:**

- Bearings and distances are referenced to Illinois State Plane Coordinate System, East Zone, North American Datum of 1983, "grid" (2011 adjustment)
- Coordinates are based on Illinois State Plane Coordinate System, East Zone, North American Datum of 1983, "grid" (2011 adjustment)
- All dimensions are measured unless otherwise noted.
- All measured and calculated distances are grid. To obtain ground distances, divide grid distances by the combination factor of 0.99975.

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STATE OF ILLINOIS )  
COUNTY OF MCHENRY )

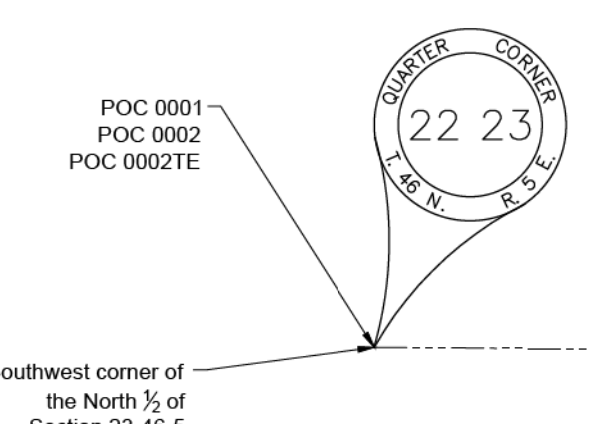
THIS IS TO CERTIFY THAT I, ANTHONY E. BIANCHINI, AN ILLINOIS PROFESSIONAL LAND SURVEYOR, HAVE SURVEYED THE PLAT OF HIGHWAYS SHOWN HEREON IN SECTION 23, TOWNSHIP 46 NORTH, RANGE 5, EAST OF THE THIRD PRINCIPAL MERIDIAN, MCHENRY COUNTY, THAT THE SURVEY IS TRUE AND COMPLETE AS SHOWN TO THE BEST OF MY KNOWLEDGE 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 CRYSTAL LAKE, ILLINOIS THIS 18TH DAY OF SEPTEMBER, 2017 A.D.

ILLINOIS PROFESSIONAL LAND SURVEYOR NO. 035-003603  
LICENSE EXPIRATION DATE: NOVEMBER 30, 2016

THIS PROFESSIONAL SERVICE CONFORMS TO THE CURRENT ILLINOIS MINIMUM STANDARDS FOR A BOUNDARY SURVEY.

ANTHONY E. BIANCHINI  
PROFESSIONAL LAND SURVEYOR  
STATE OF ILLINOIS  
CRYSTAL LAKE, ILLINOIS  
"LICENSE EXPIRES 11-30-2016"



**BAXTER & WOODMAN**  
Consulting Engineers  
8678 RIDGEFIELD ROAD • CRYSTAL LAKE, IL 60012  
PHONE: 815-459-1260 • FAX: 815-455-0450

**PLAT OF HIGHWAYS**

STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION  
OAK GROVE ROAD

LIMITS : OVER DRAINAGE DITCH COUNTY : MCHENRY  
SECTION : 14-00433-00-BR JOB NO. : R-55-001-97  
STA. N/A TO STA. N/A  
SCALE : 1" = 125' SHEET 3 OF 3 SHEETS

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

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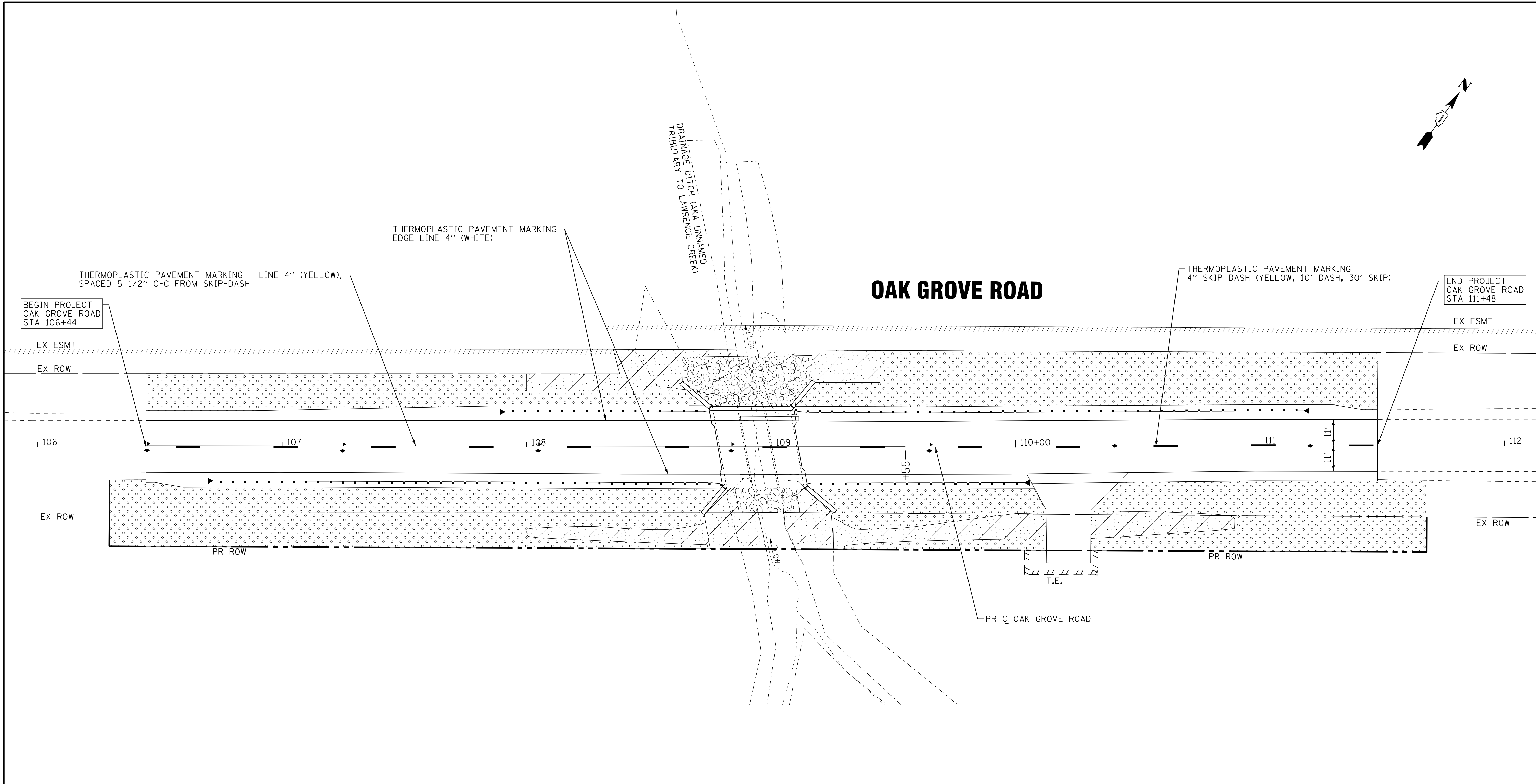
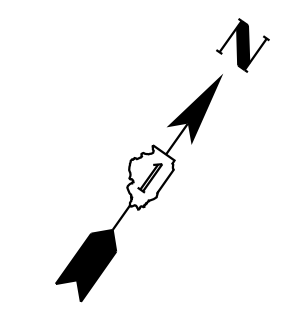
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STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION

PLATS OF HIGHWAY

SCALE: NONE STA. TO STA.

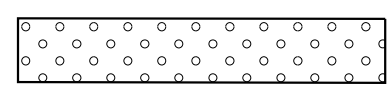
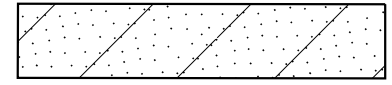
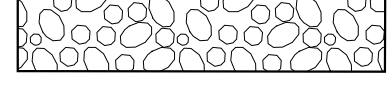
TR	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
0135	14-00433-00-BR	MCHENRY	40	17
FED. ROAD DIST. NO.		ILLINOIS FED. AID PROJECT		
		CONTRACT NO. 61E23		



**PAVEMENT MARKING LEGEND**

- 4" LINE
- ◀ ◆ RECESSED REFLECTIVE PAVEMENT MARKER

**LANDSCAPING LEGEND:**

-  SEEDING, CLASS 2A  
EROSION CONTROL BLANKET
-  SEEDING, CLASS 4B  
EROSION CONTROL BLANKET (SPECIAL)
-  STONE RIP RAP, CLASS A4,  
FILTER FABRIC
- - - - - EXISTING WETLANDS

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**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

**PAVEMENT MARKING AND LANDSCAPING PLAN**

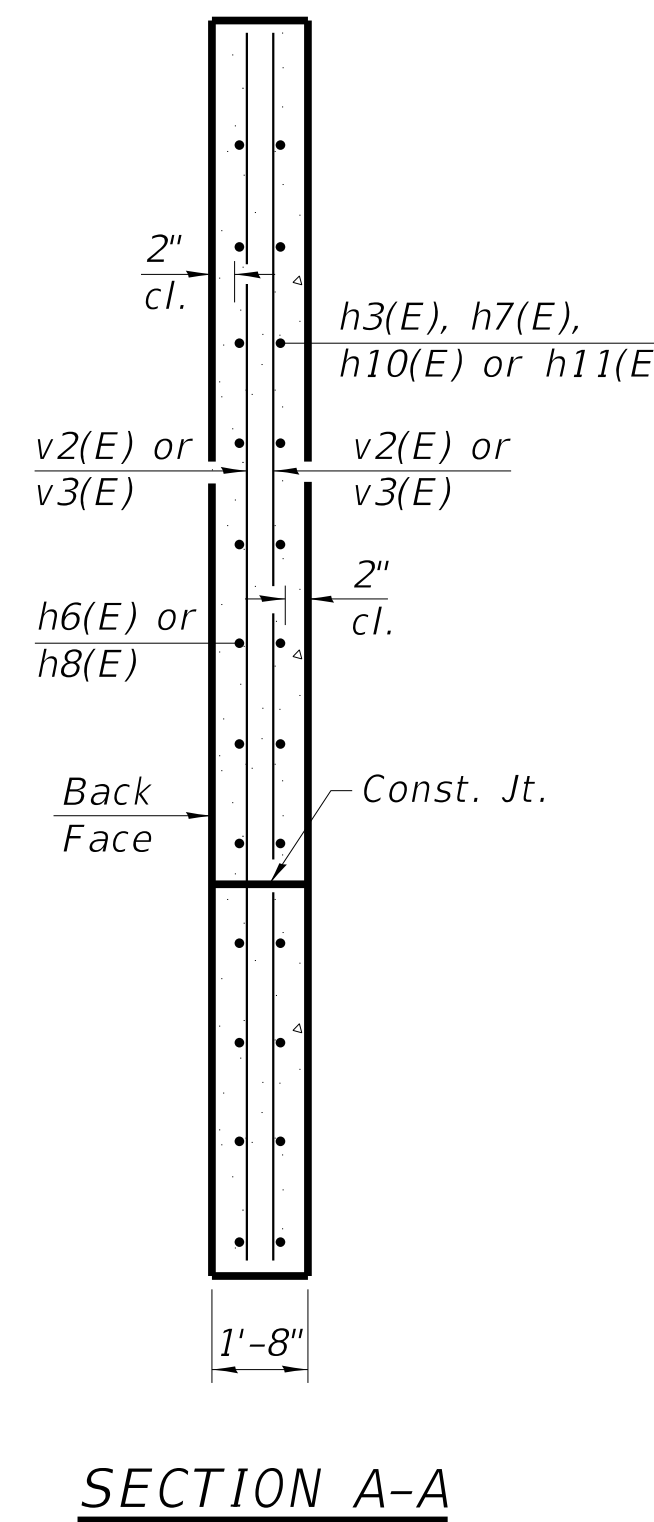
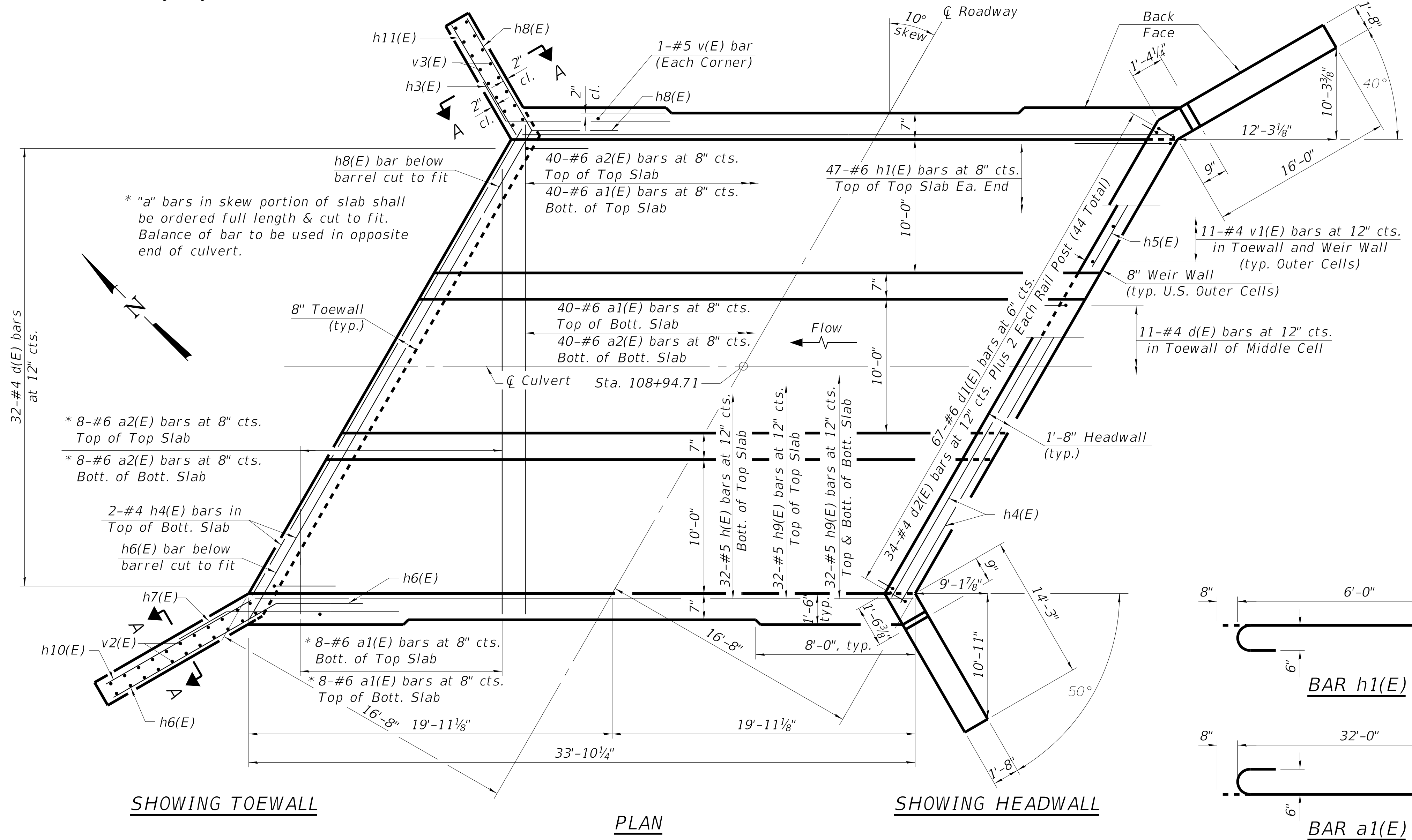
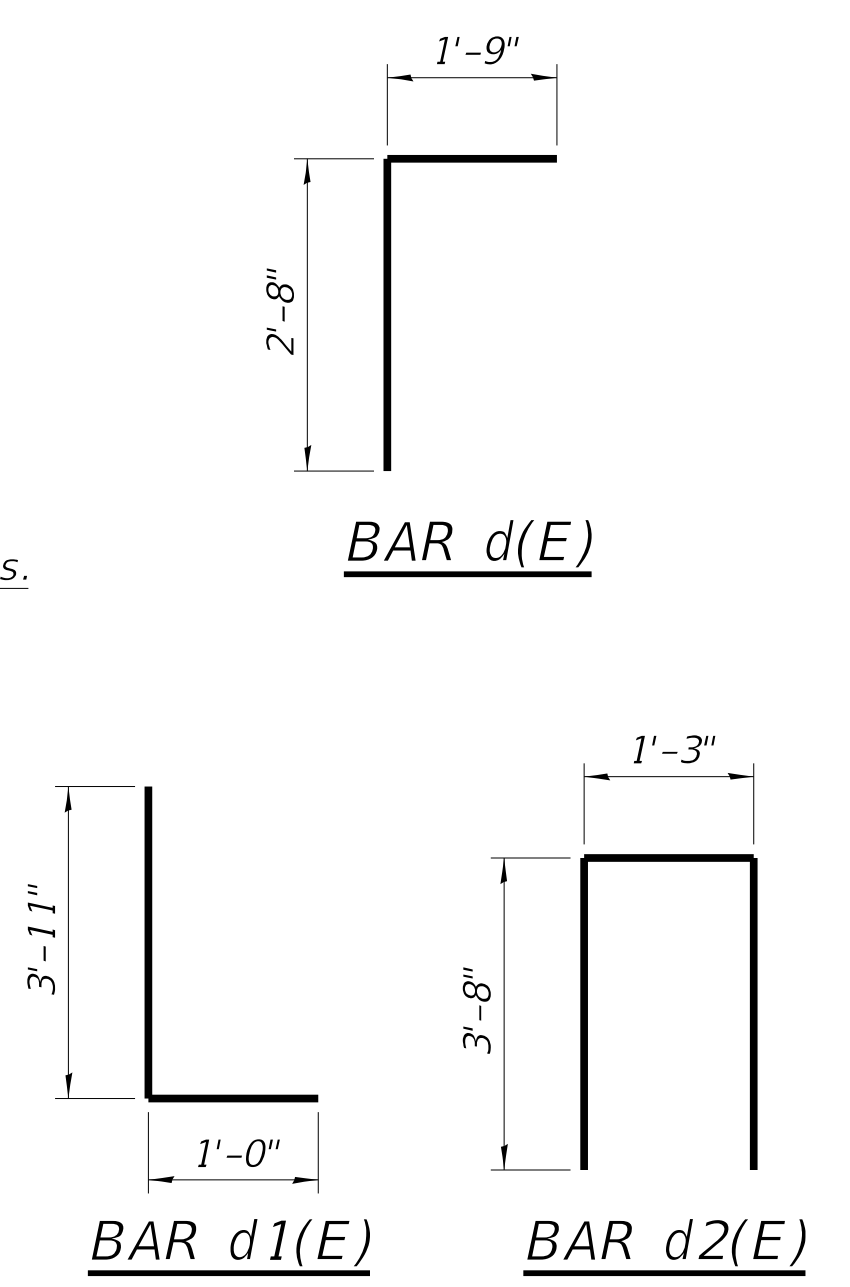
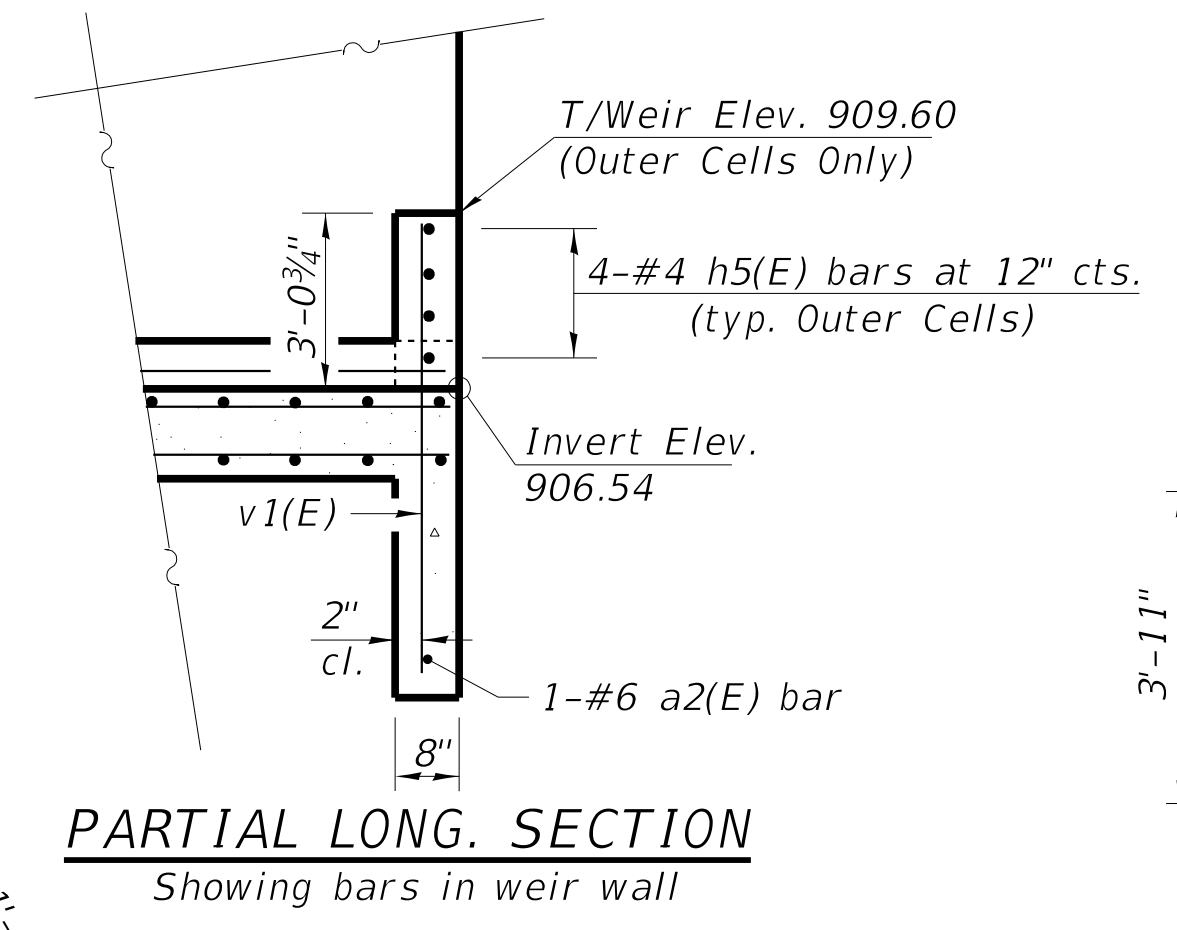
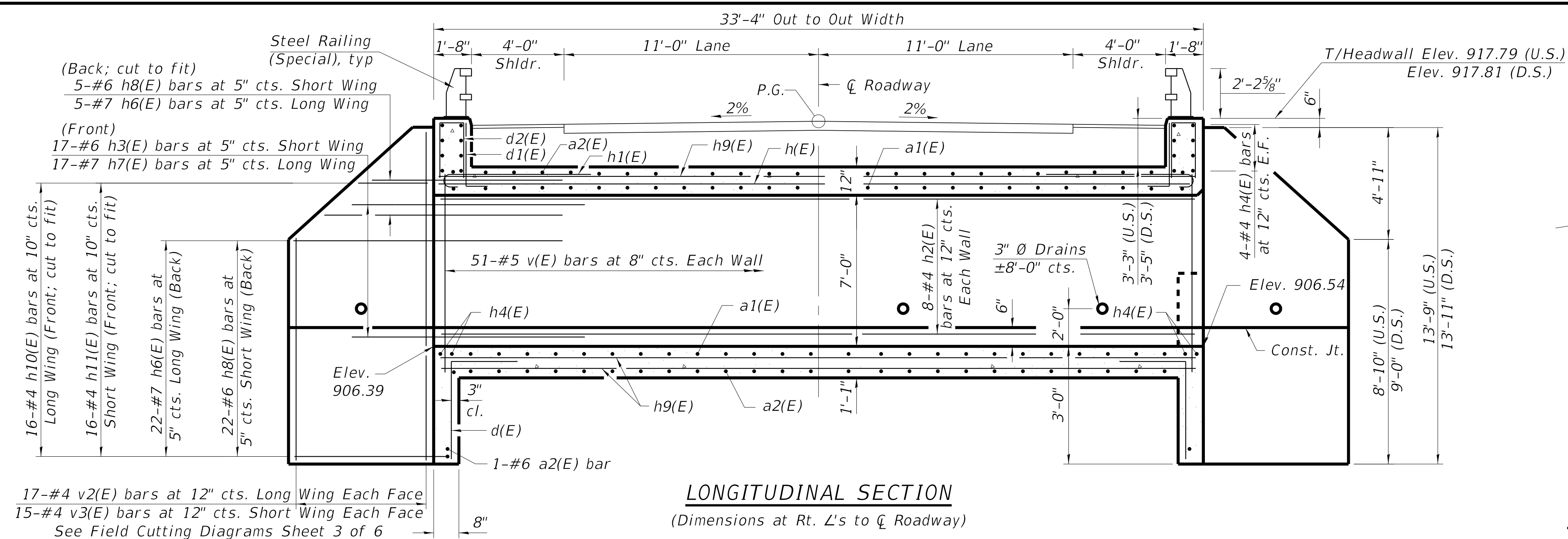
SCALE: 1" = 20'

STA. 103+00 TO STA. 114+00

TR	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
0135	14-00433-00-BR	McHENRY	40	18
FED. ROAD DIST. NO.			ILLINOIS FED. AID PROJECT	
			CONTRACT NO. 61E23	

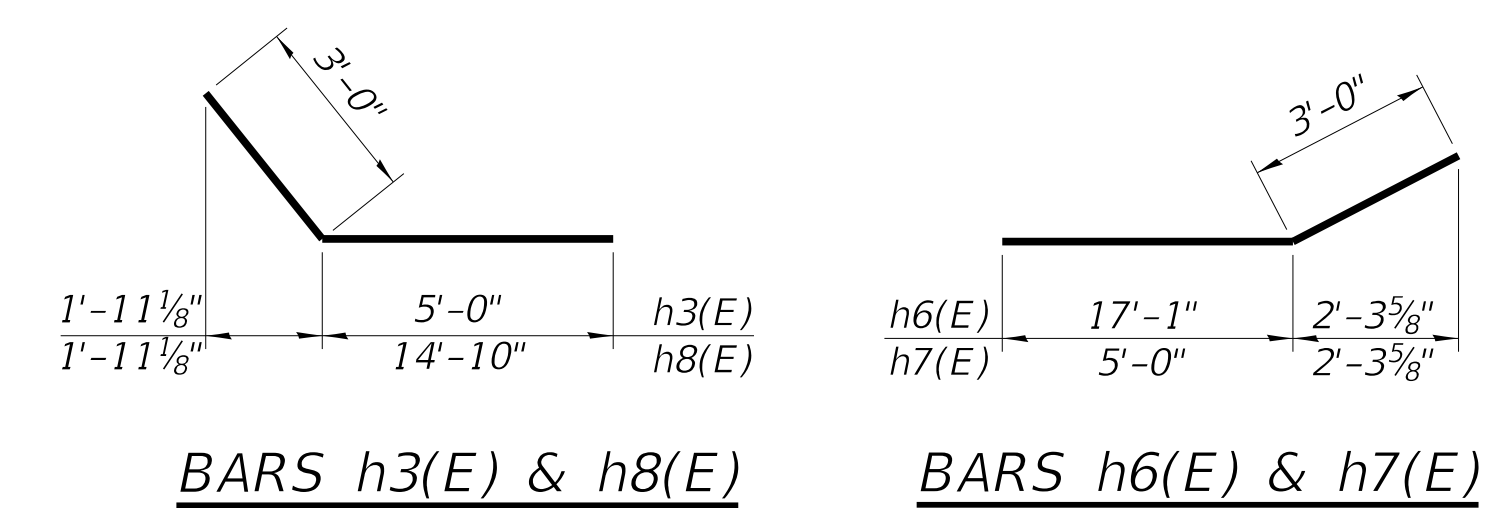
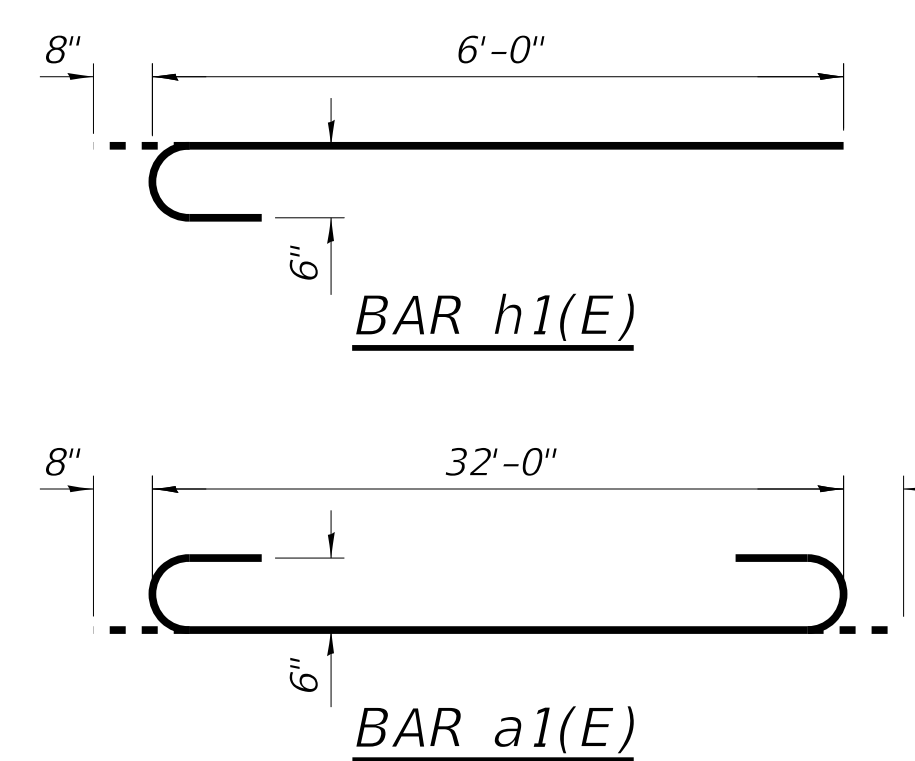






**BILL OF MATERIAL**

Bar	No.	Size	Length	Shape
a1(E)	96	#6	33'-4"	U
a2(E)	98	#6	32'-0"	U
d(E)	43	#4	4'-5"	U
d1(E)	134	#6	4'-11"	U
d2(E)	88	#4	8'-7"	U
h(E)	32	#5	33'-4"	U
h1(E)	94	#6	6'-8"	U
h2(E)	32	#4	33'-6"	U
h3(E)	34	#6	8'-0"	U
h4(E)	20	#4	32'-4"	U
h5(E)	8	#4	9'-9"	U
h6(E)	54	#7	20'-1"	U
h7(E)	34	#7	8'-0"	U
h8(E)	54	#6	17'-10"	U
h9(E)	96	#5	33'-6"	U
h10(E)	32	#4	16'-0"	U
h11(E)	32	#4	14'-3"	U
v(E)	208	#5	8'-8"	U
v1(E)	22	#4	5'-8"	U
v2(E)	34	#4	21'-11"	U
v3(E)	30	#4	21'-11"	U
Concrete Box Culverts		Cu. Yd.	176.7	
Reinforcement Bars, Epoxy Coated		Pound	25,930	



A minimum eight feet of the barrel shall be poured monolithically with the wingwalls.

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 12/20/2017 1:55:17 PM 48cjc

USER NAME =	DESIGNED - AS	REVISED -
CHECKED - BLB	REVISIONS -	
PLOT SCALE =	DRAWN - AS	REVISIONS -
PLOT DATE	DATE - 09-29-17	REVISIONS -

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

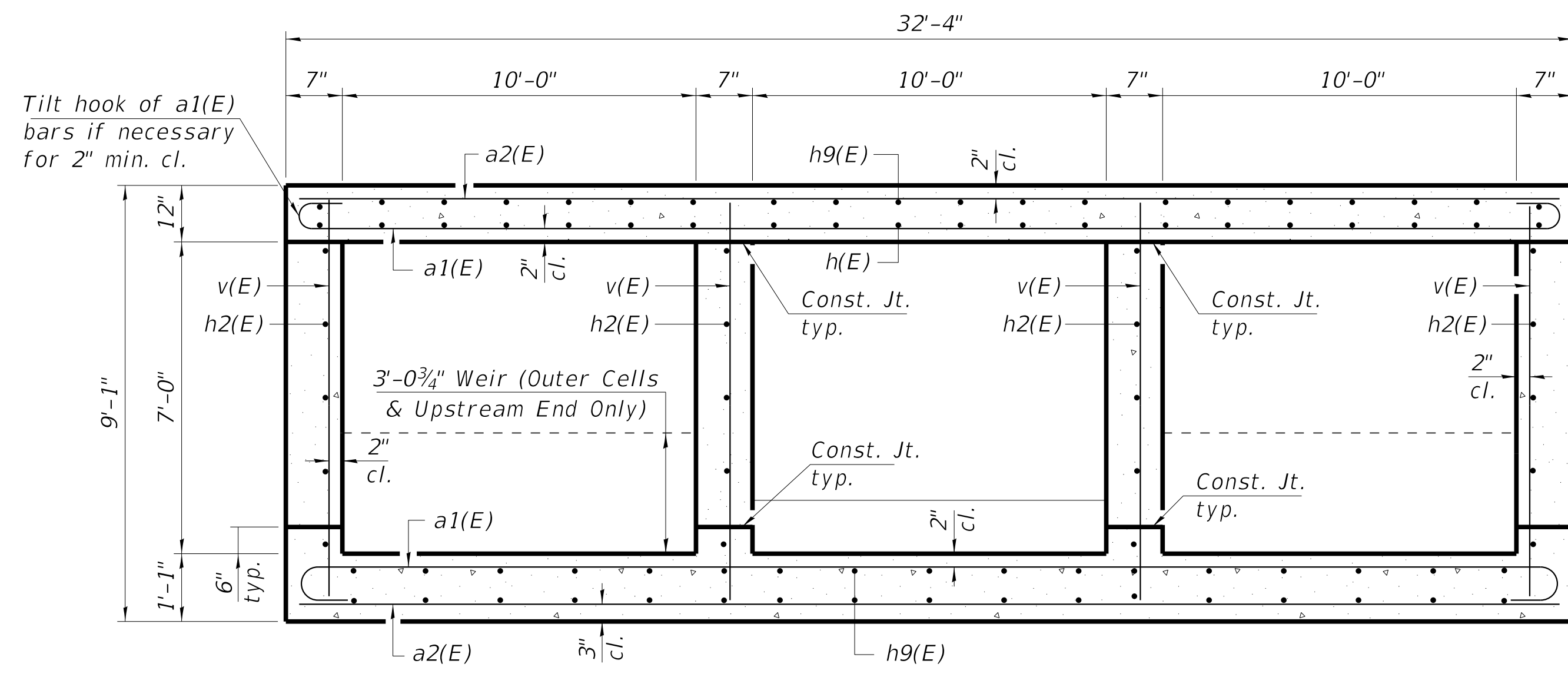
**CULVERT DETAILS - I**  
**STRUCTURE NO. 056-3214**

SHEET NO. 2 OF 6 SHEETS

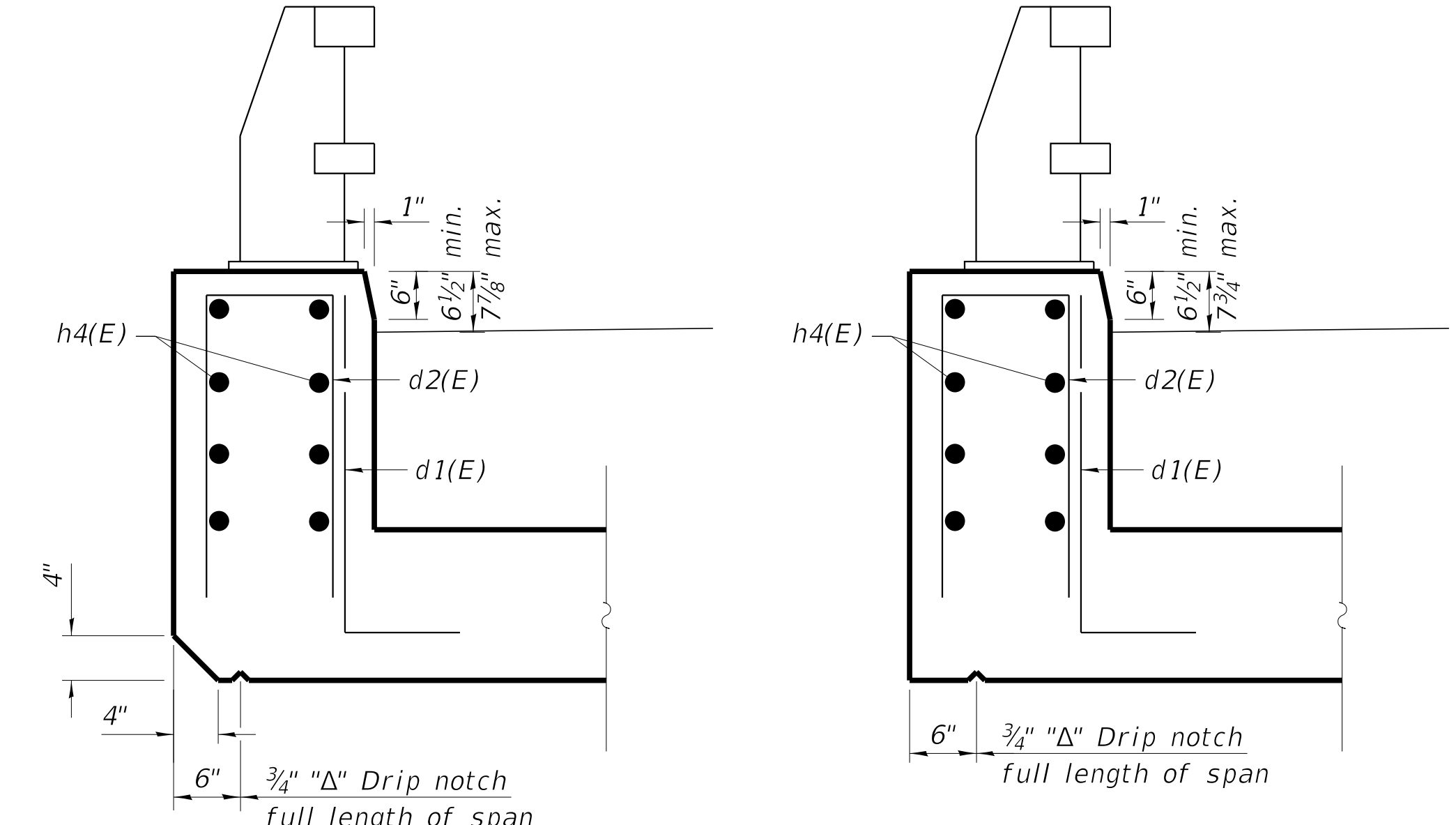
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CONTRACT NO. 61E23			ILLINOIS FED. AID PROJECT	



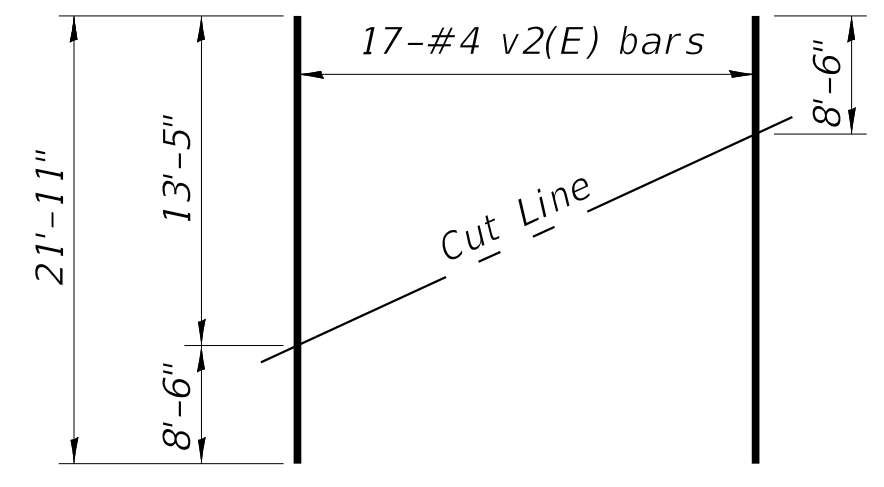
Fill height:  
min. = 2.6'  
max. = 3.1'



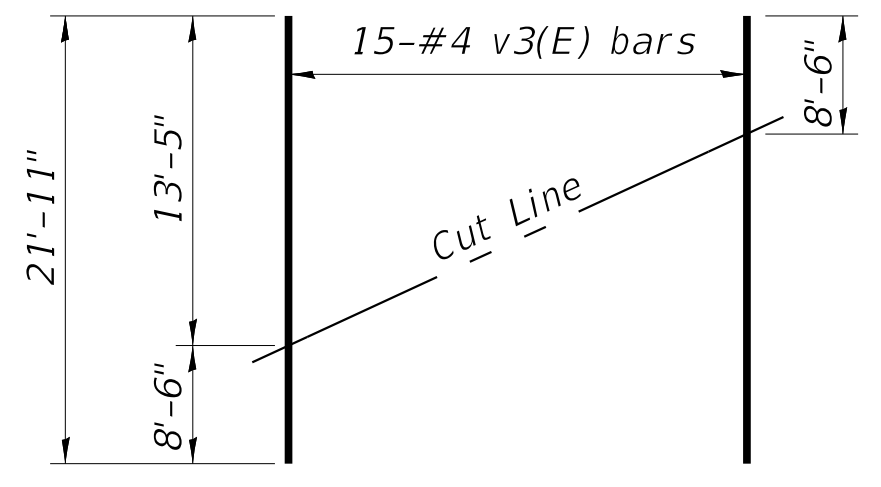
**SECTION THRU BARREL**



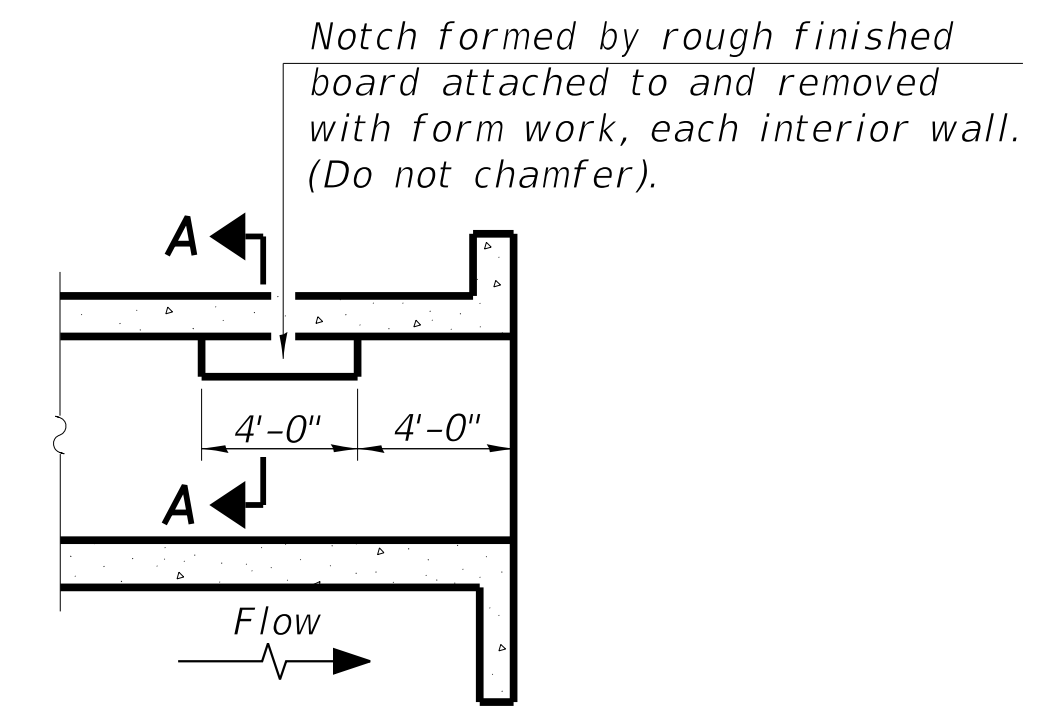
**SECTION THRU HEADWALL**



**FIELD CUTTING DIAGRAM**  
Order v2(E) bars full length. Cut as shown and use remainder of bars in opposite face.

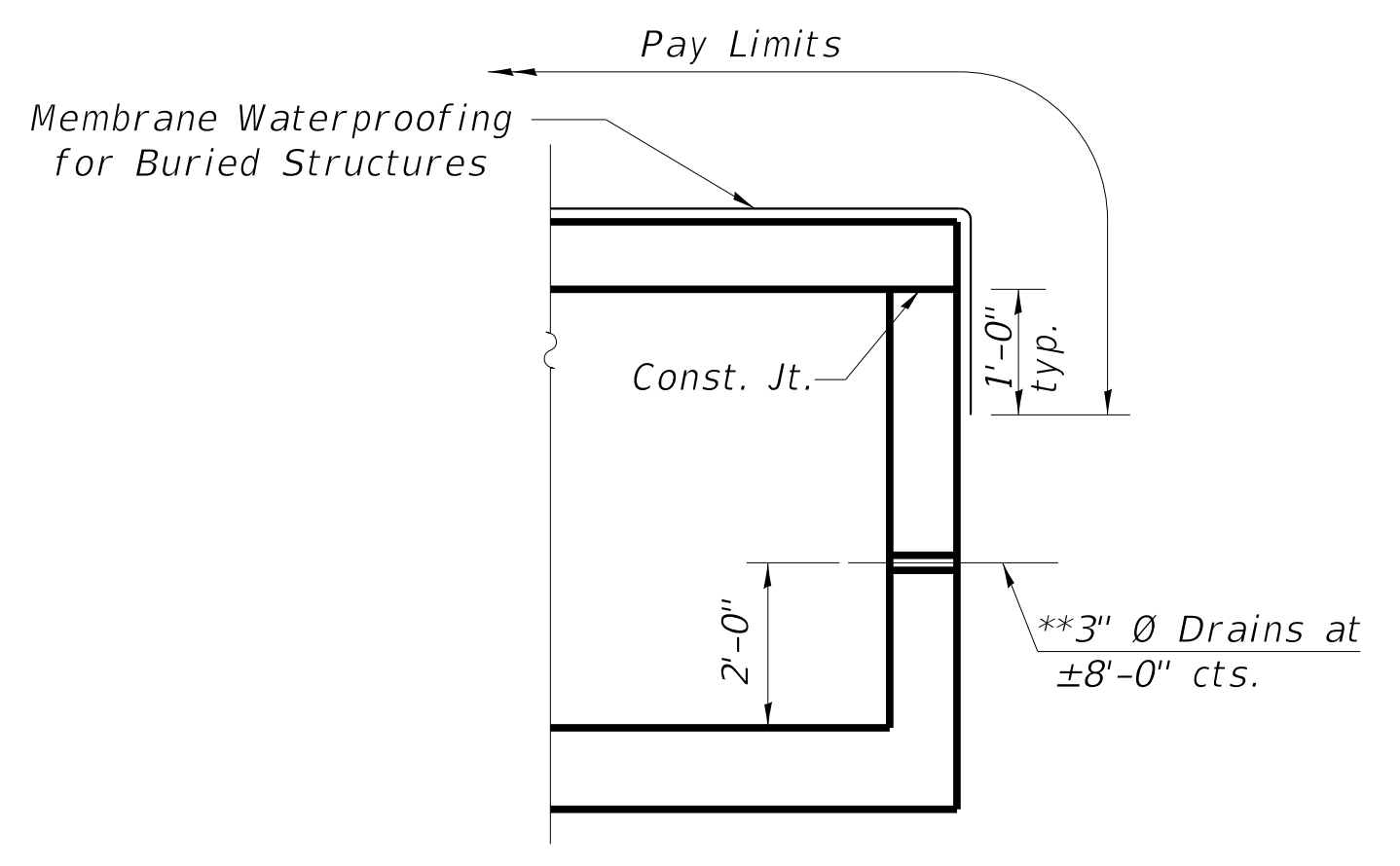


**FIELD CUTTING DIAGRAM**  
Order v3(E) bars full length. Cut as shown and use remainder of bars in opposite face.



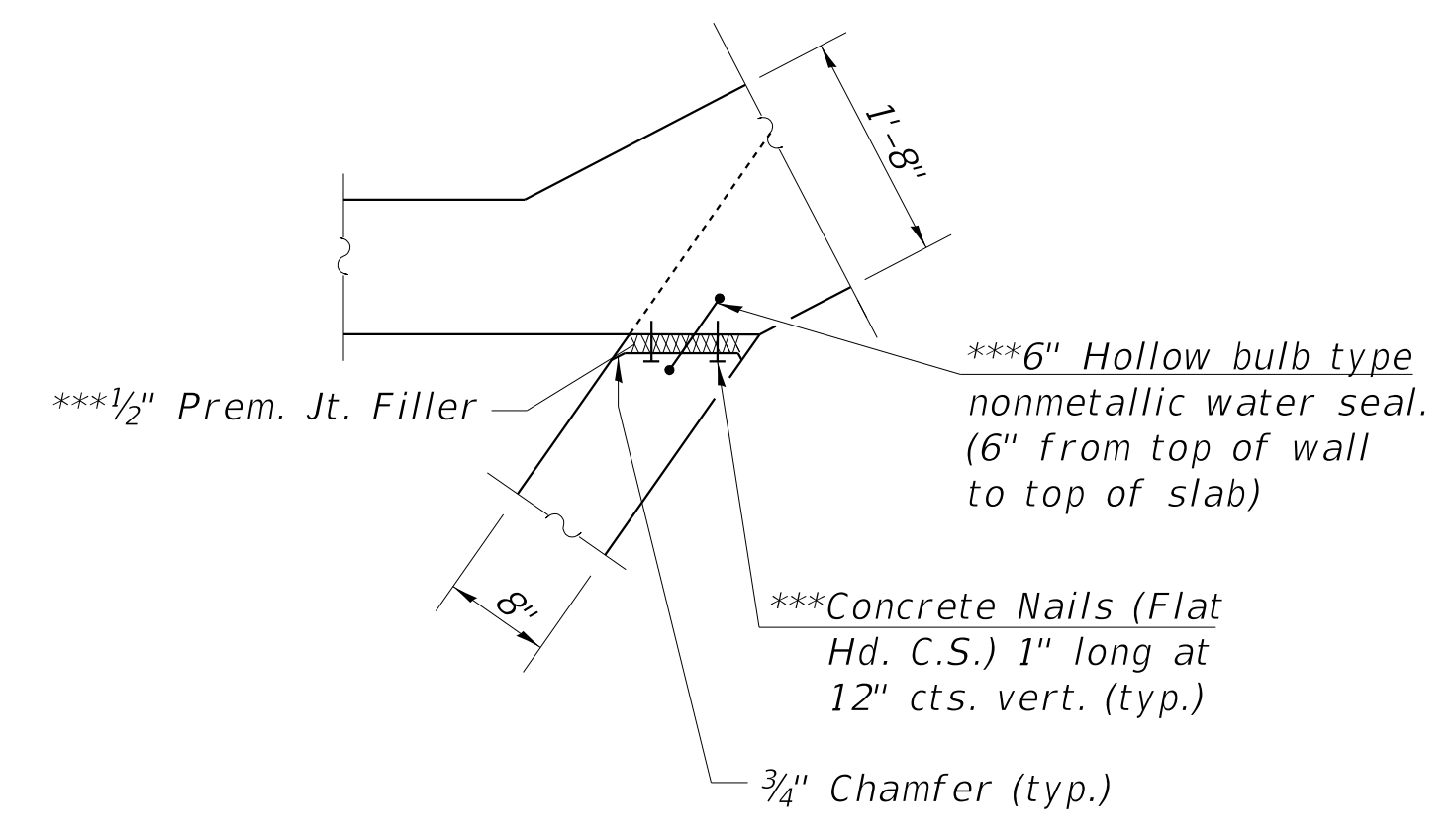
**LONGITUDINAL SECTION**

\* Nonwoven geotextile fabric shall conform to the requirements of Article 1080.01 of the Standard Specifications. The minimum weight of the fabric shall be 6 ounces per square yard.



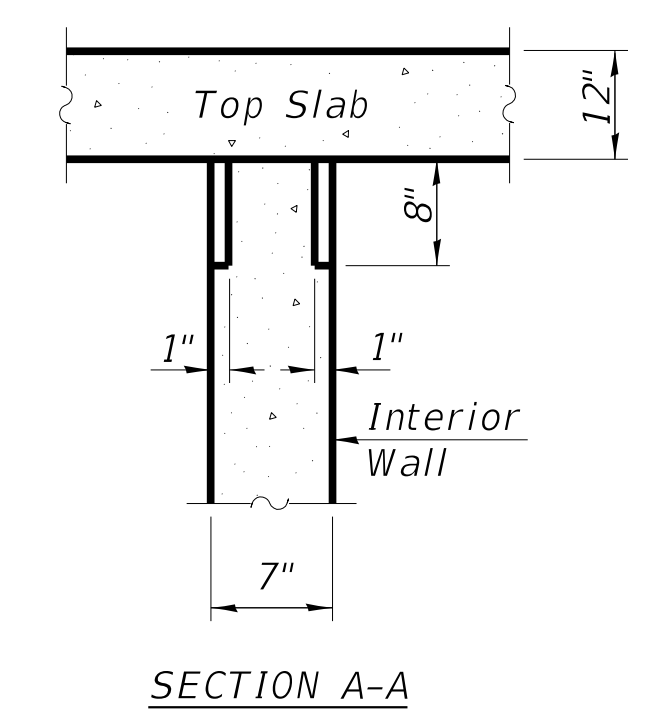
**WATERPROOFING**

\*\* Geocomposite Strip Drain required at each weephole. Cost included with Concrete Box Culverts. See Special Provisions.



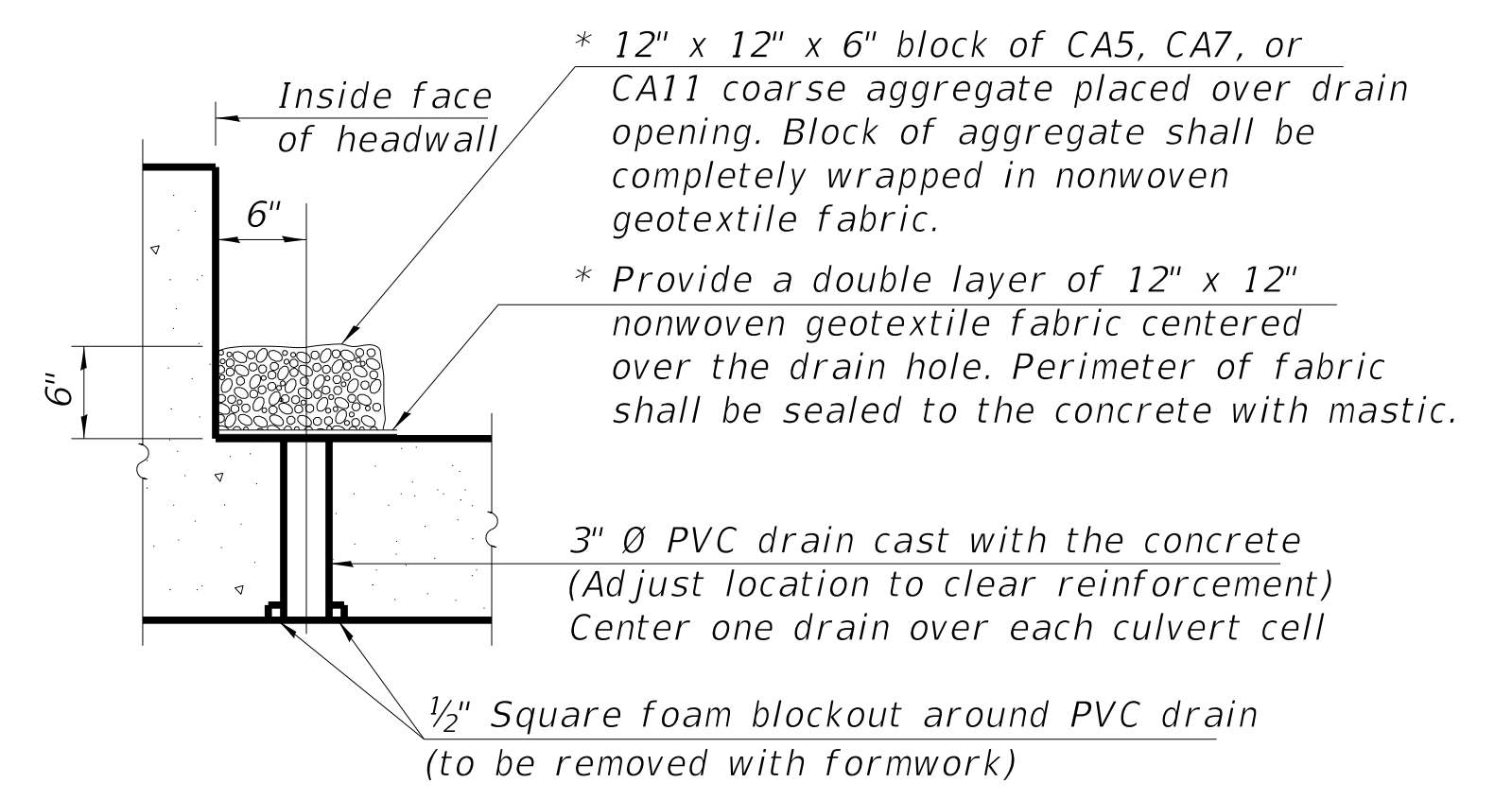
**WEIR WALL END DETAIL**

\*\*\* Cost included with Concrete Box Culverts.



**SECTION A-A**

**PHOEBE NESTING SITE DETAILS**  
(Downstream End Only)



**DRAIN DETAIL**

(All costs associated with furnishing and constructing the above drain detail will not be measured for payment but shall be included in the contract unit price for the associated work.)

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12/20/2017 1:55:49 PM  
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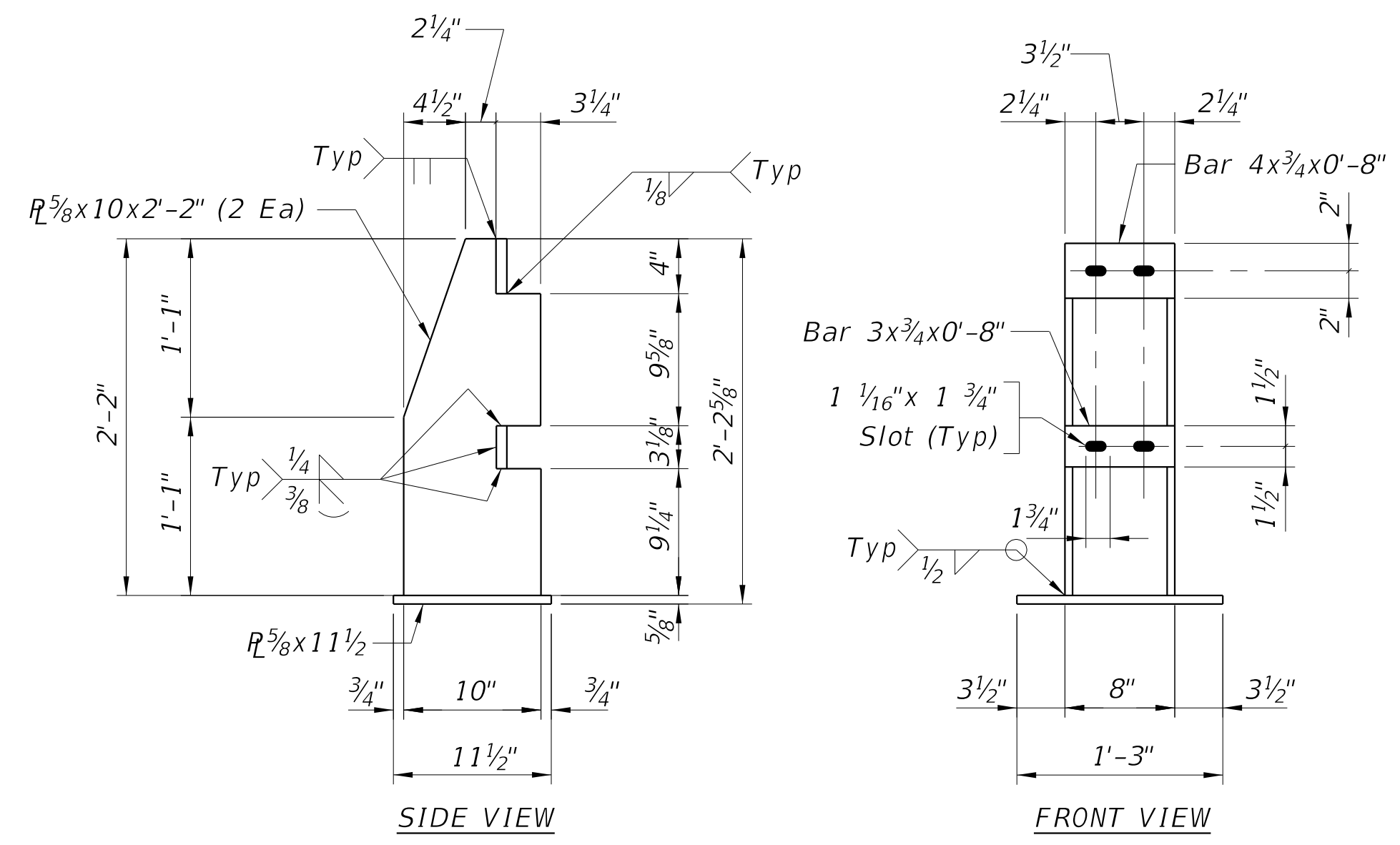
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CHECKED - BLB	REVISED -	
PLOT SCALE =	DRAWN - AS	REVISED -
PLOT DATE	DATE 09-29-17	REVISED -

**STATE OF ILLINOIS**  
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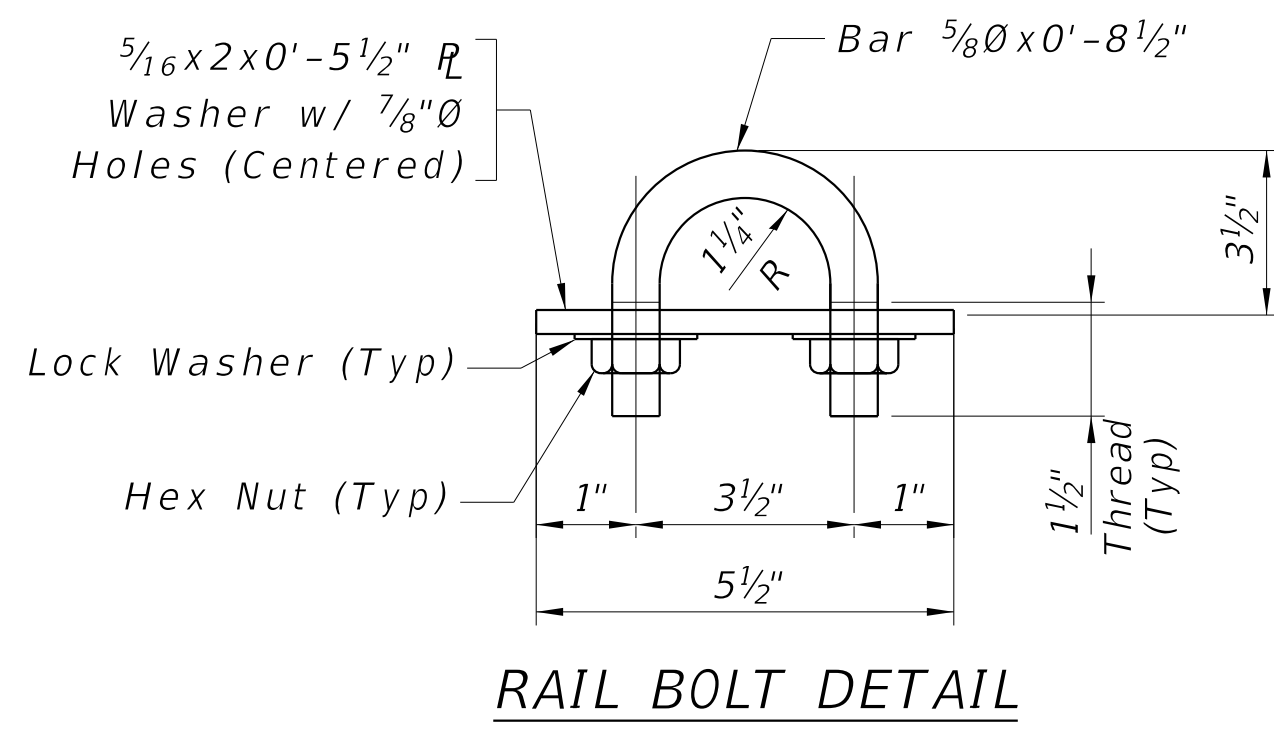
**CULVERT DETAILS - II**  
**STRUCTURE NO. 056-3214**

SHEET NO. 3 OF 6 SHEETS

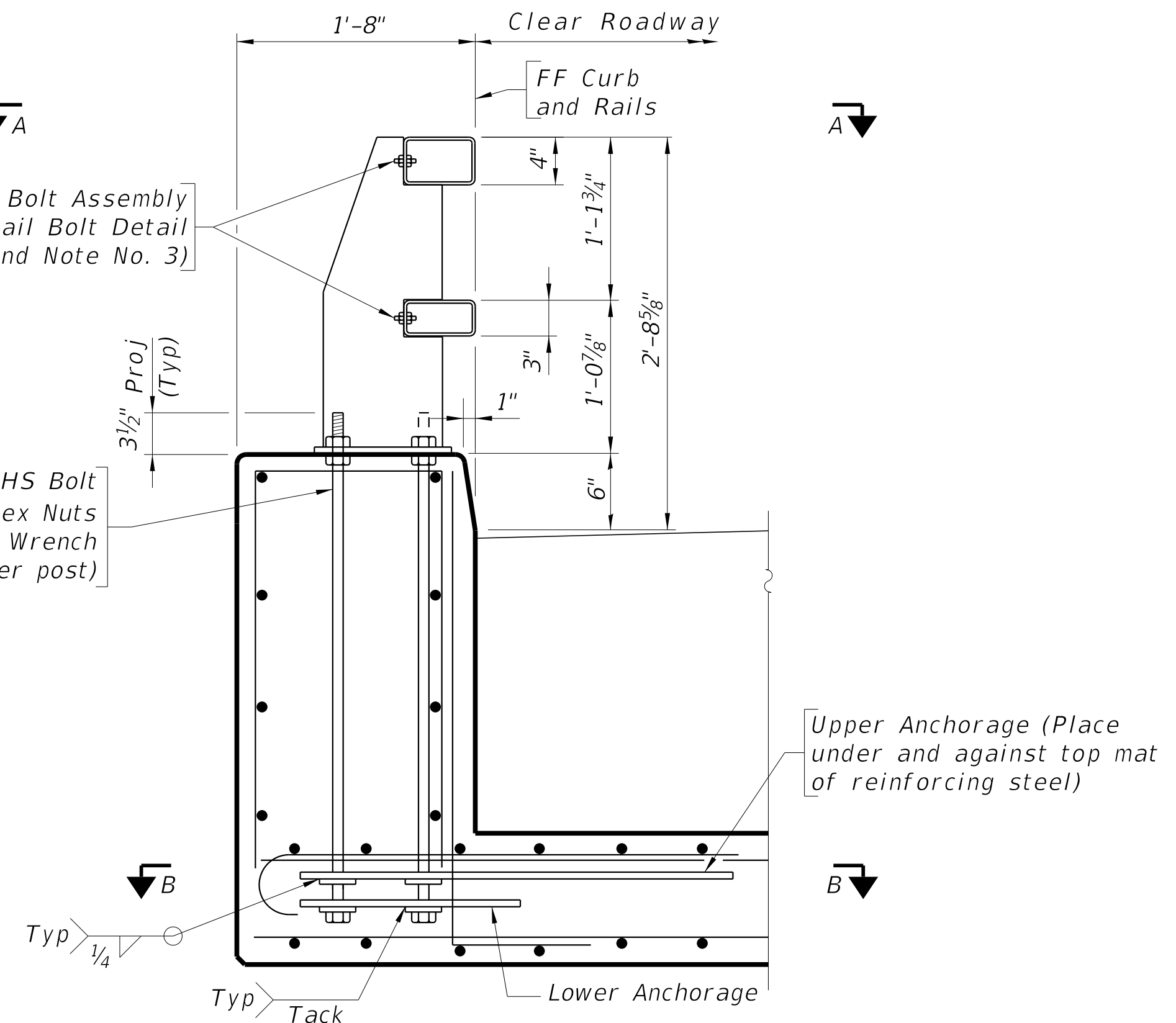
TR RTE	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
0135	14-00433-00-BR	McHENRY	40	21
				CONTRACT NO. 61E23
ILLINOIS FED. AID PROJECT				



**POST DETAILS**  
(See View A-A for anchor bolt hole spacing)



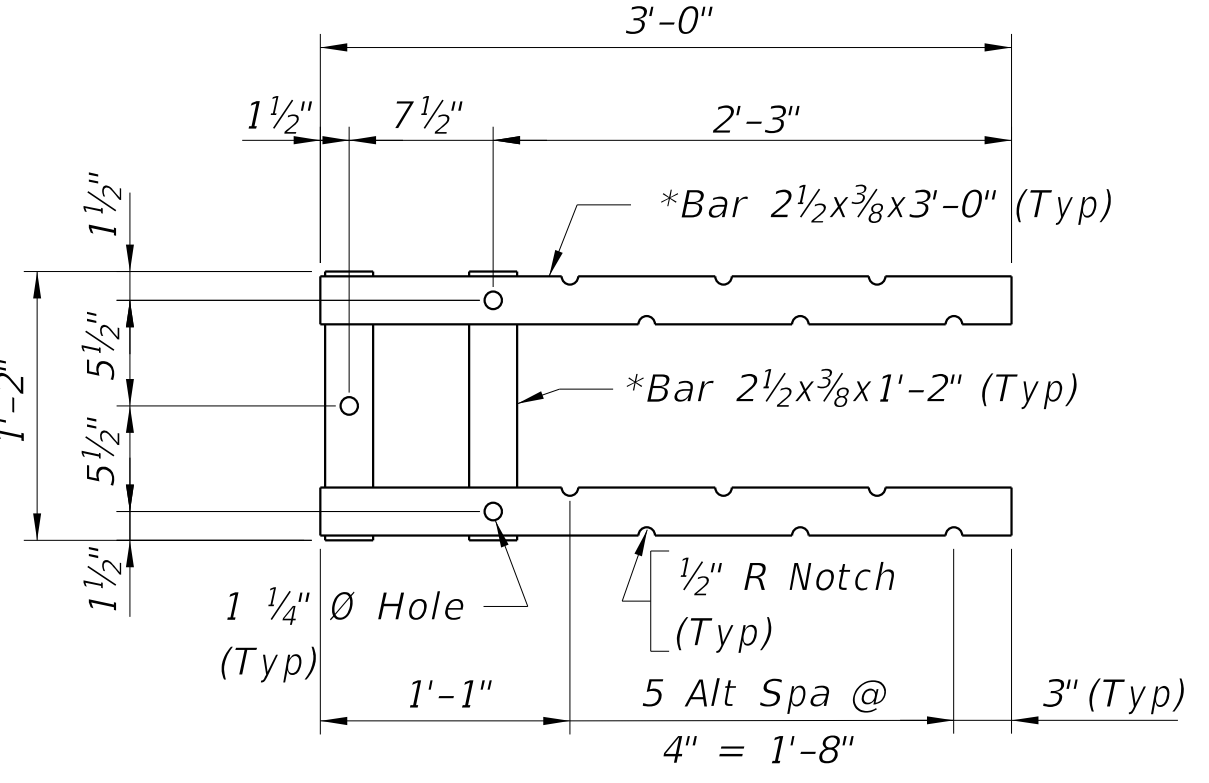
**RAIL BOLT DETAIL**



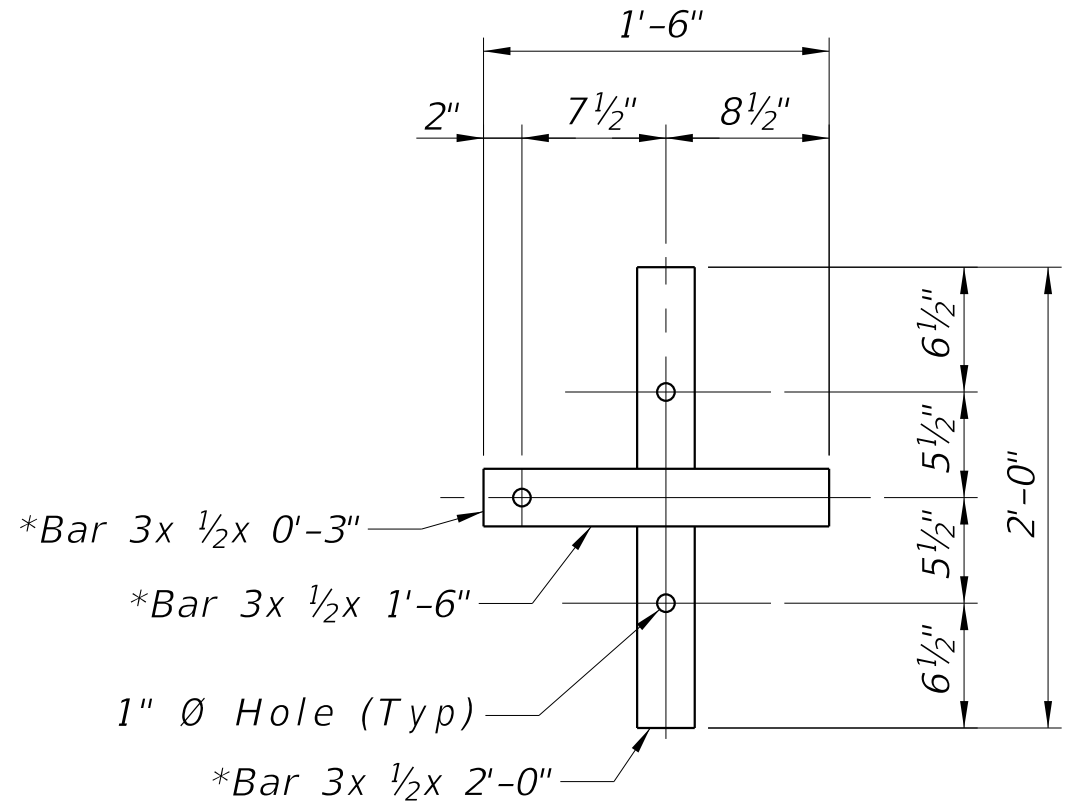
**ASSEMBLY DETAIL**  
(Shown near  $\phi$  Post)

**NOTES**

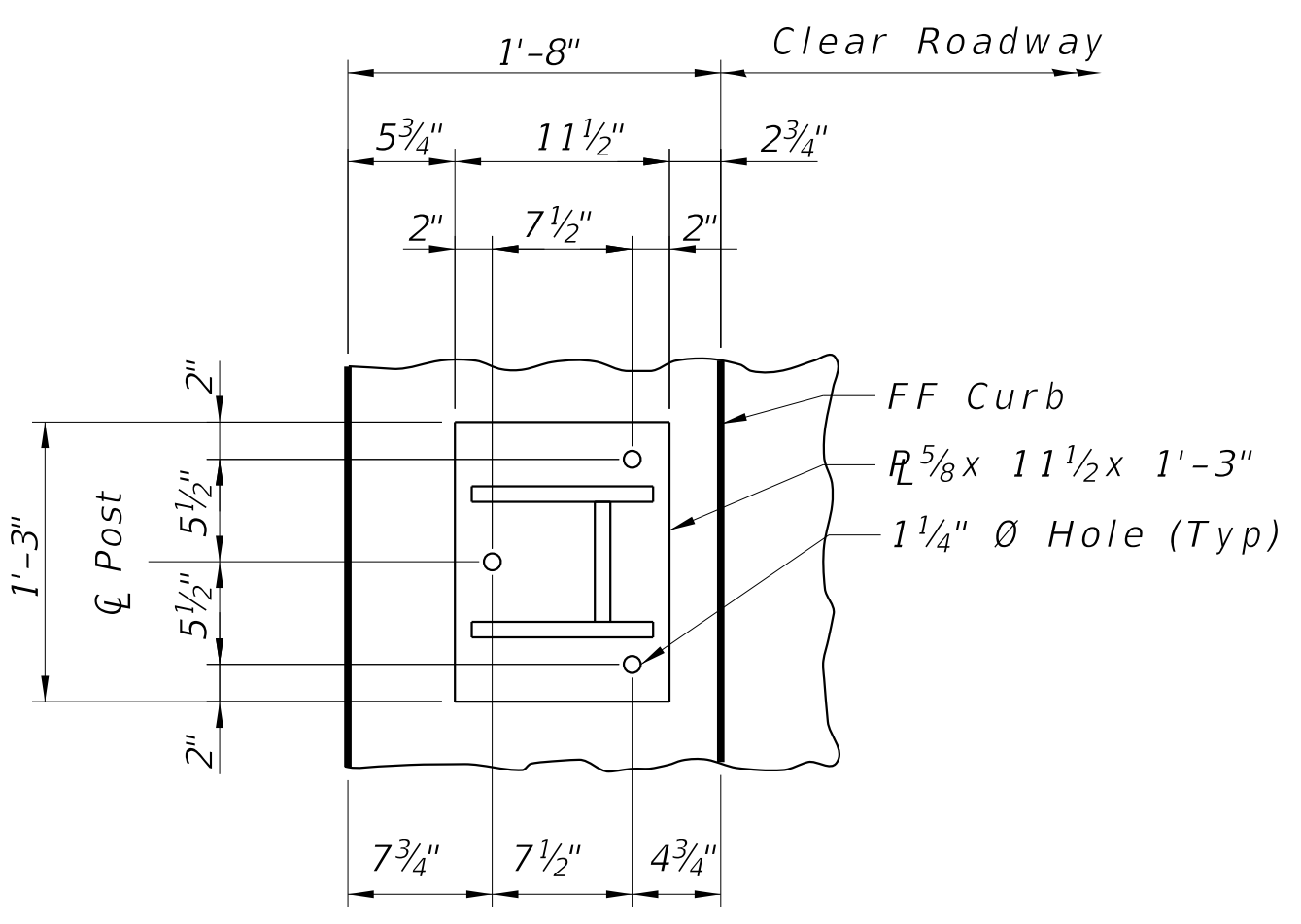
- 1) Ensure the expansion splice is located in the railing panel which passes over the bridge expansion joint if indicated on the plan.
- 2) Anchor bolts may be tack welded to lower anchorage (Shop or field).
- 3) At post locations, drill two 1 1/16" Ø holes in the rails to receive rail bolts (Shop or field). See Post Details for hole spacing.
- 4) Before installing rails, paint all cut, drilled or otherwise damaged surface areas of the railing components with two coats of zinc rich paint conforming to the requirements of ASTM A 780.
- 5) After installing the rails, paint all exposed bolt threads with two coats of zinc rich paint conforming to the requirements of ASTM A 780.
- 6) All steel components shall be galvanized according to AASHTO M111 unless noted otherwise.
- 7) Shim Plates shall be provided in accordance with Article 509.05(a) of the Standard Specifications.



**SECTION B-B**  
(Showing upper anchorage)  
(\* Not galvanized)  
(Anchor bolts and slab not shown)



**SECTION B-B**  
(Showing lower anchorage)  
(\* Not galvanized)  
(Anchor bolts and slab not shown)



**VIEW A-A**  
(Anchor bolts, rails and rail bolts not shown)

**BILL OF MATERIAL**

Item	Unit	Total
Steel Railing (Special)	Foot	66

USER NAME =	DESIGNED - AS	REVISED -
CHECKED - BLB	REVISIONS -	
PLOT SCALE =	DRAWN - AS	REVISED -
PLOT DATE =	DATE - 09-29-17	REVISED -

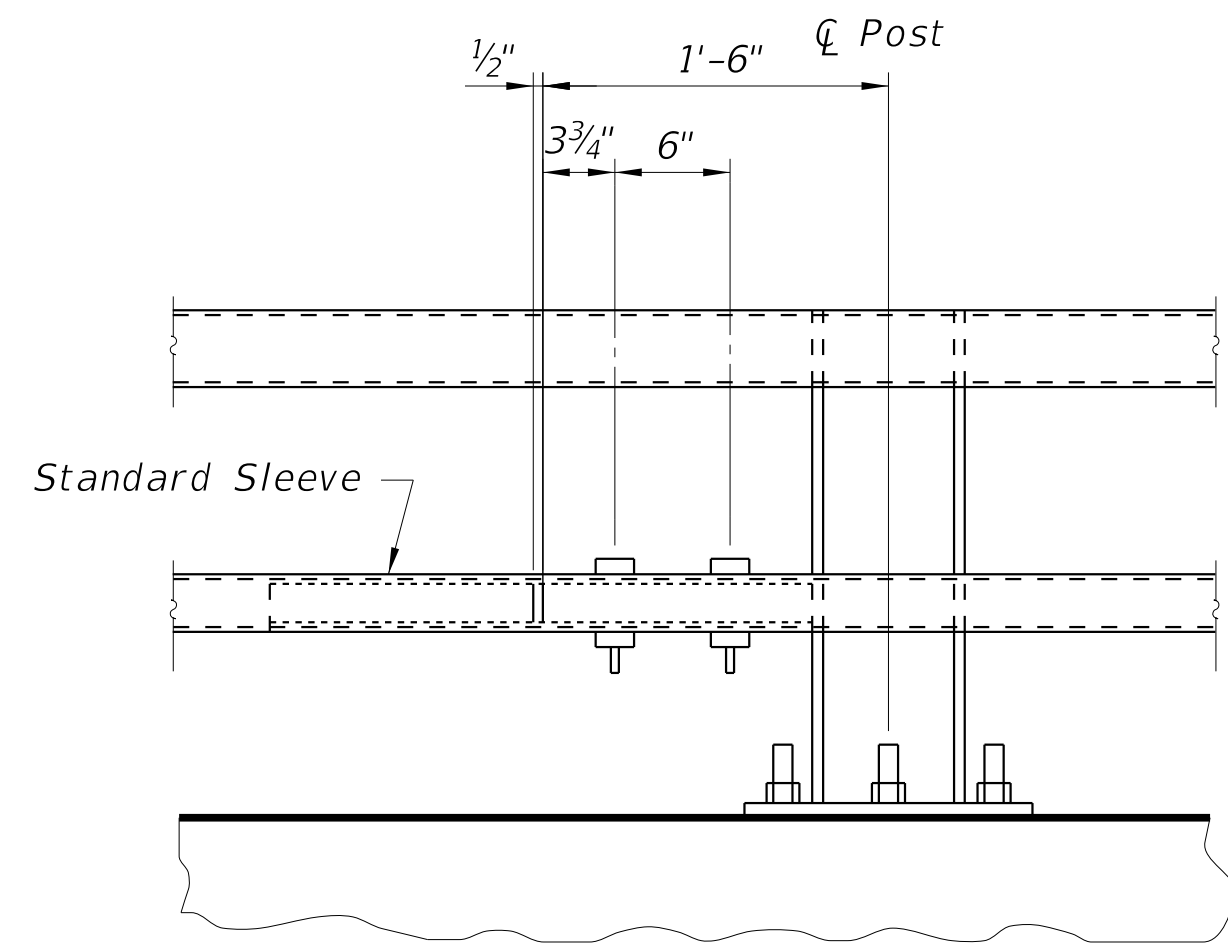
**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

**STEEL RAILING (SPECIAL) DETAILS - I  
STRUCTURE NO. 056-3214**

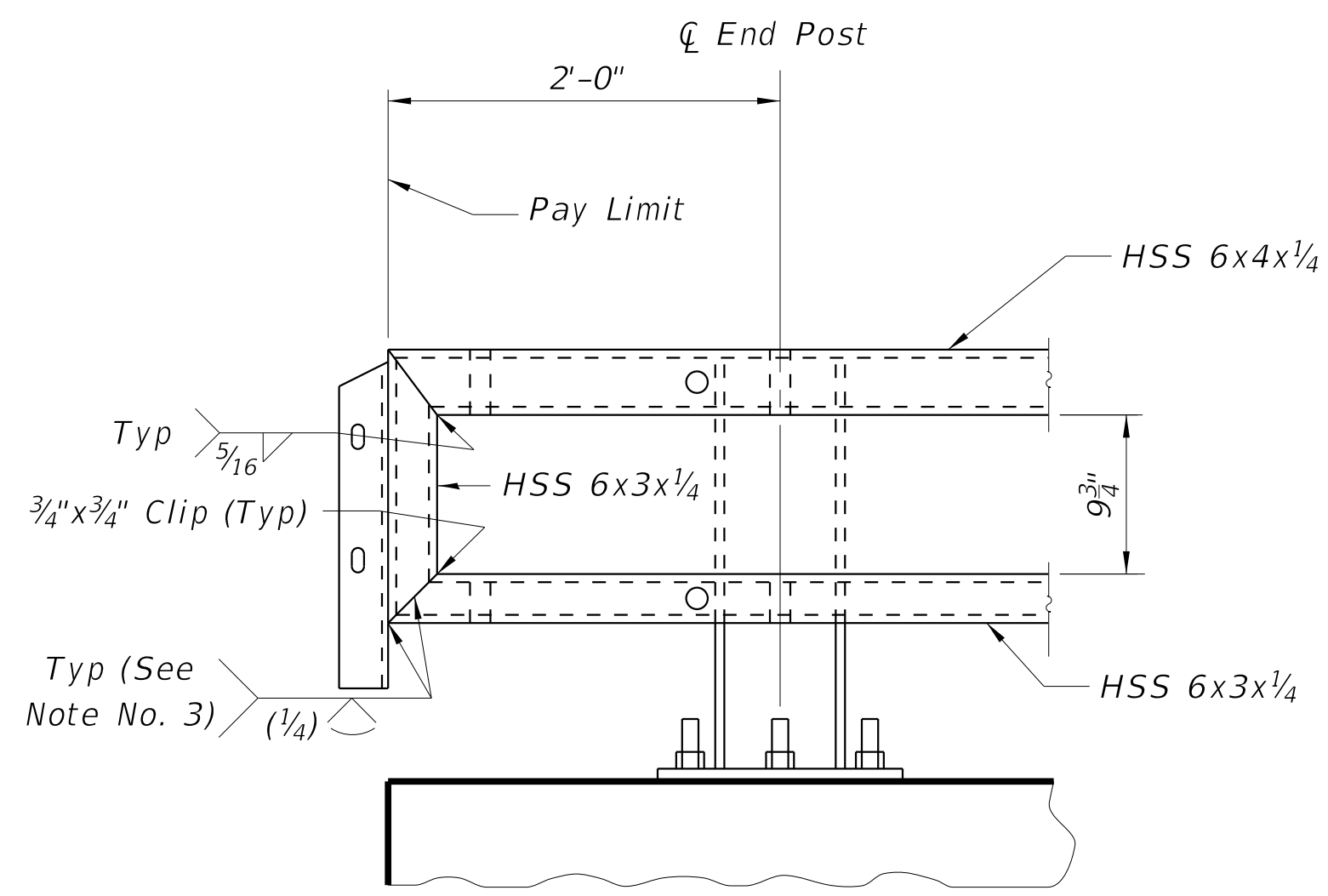
SHEET NO. 4 OF 6 SHEETS

TR RTE	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
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			CONTRACT NO. 61E23	

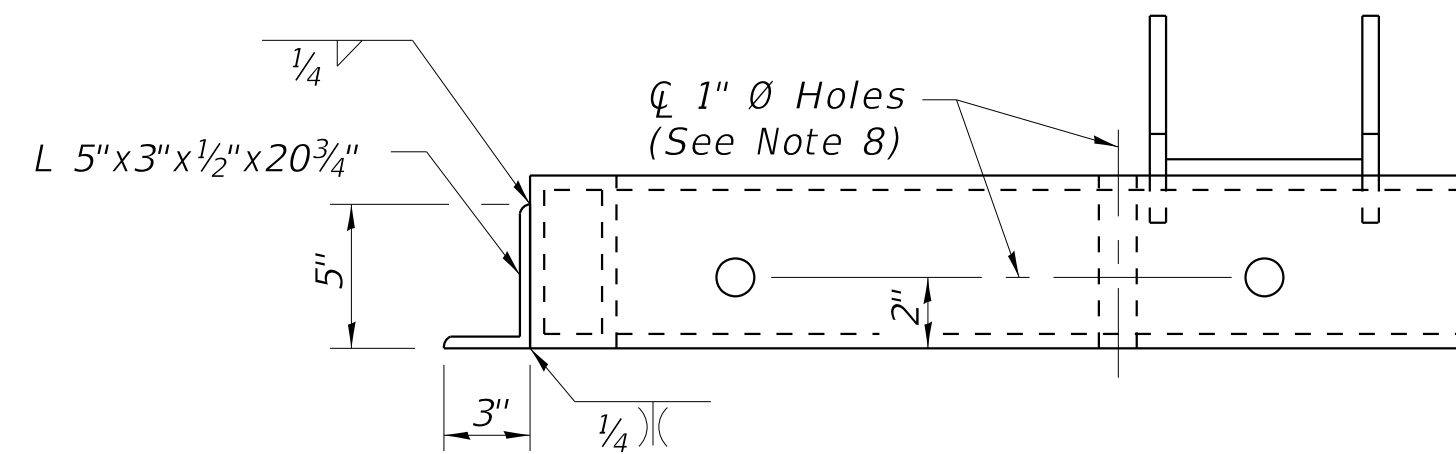
ILLINOIS FED. AID PROJECT



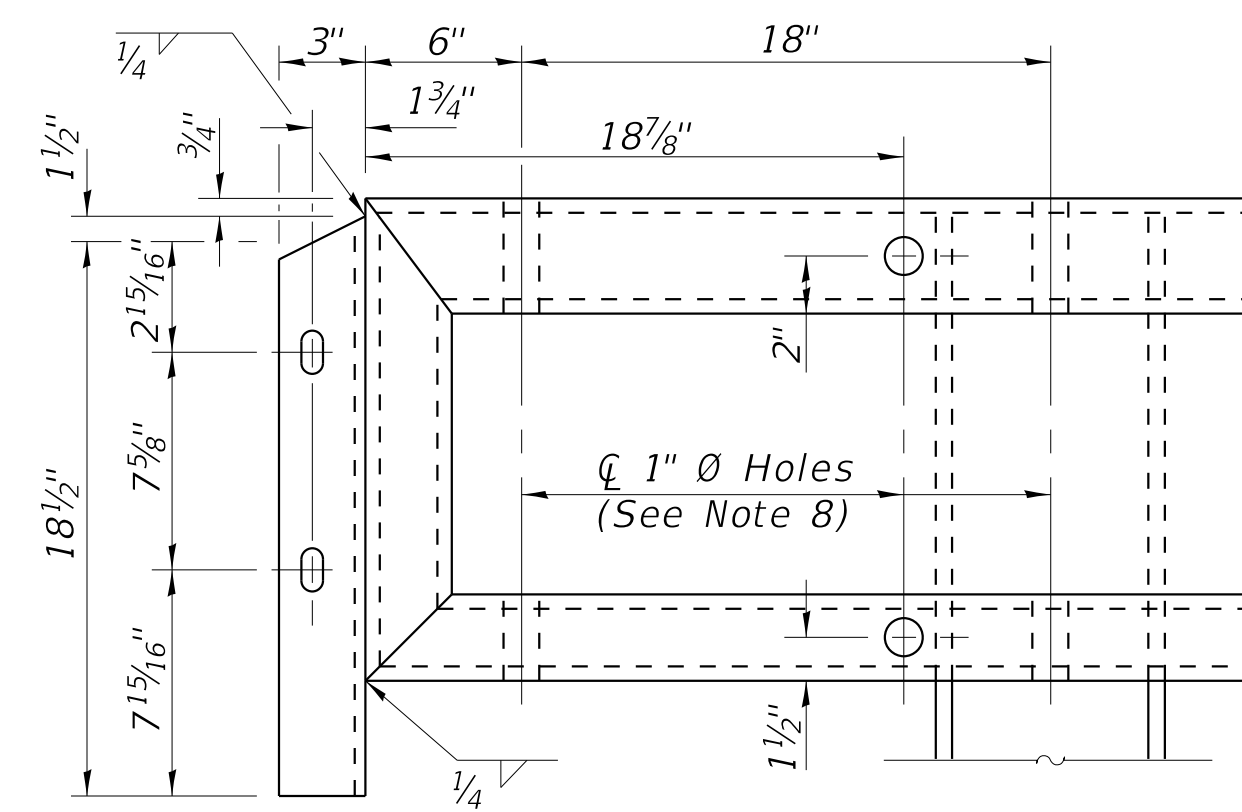
**STANDARD SPLICE**  
(Top or bottom rail)



**ELEVATION AT TERMINAL TYPE 6A (SPECIAL)**

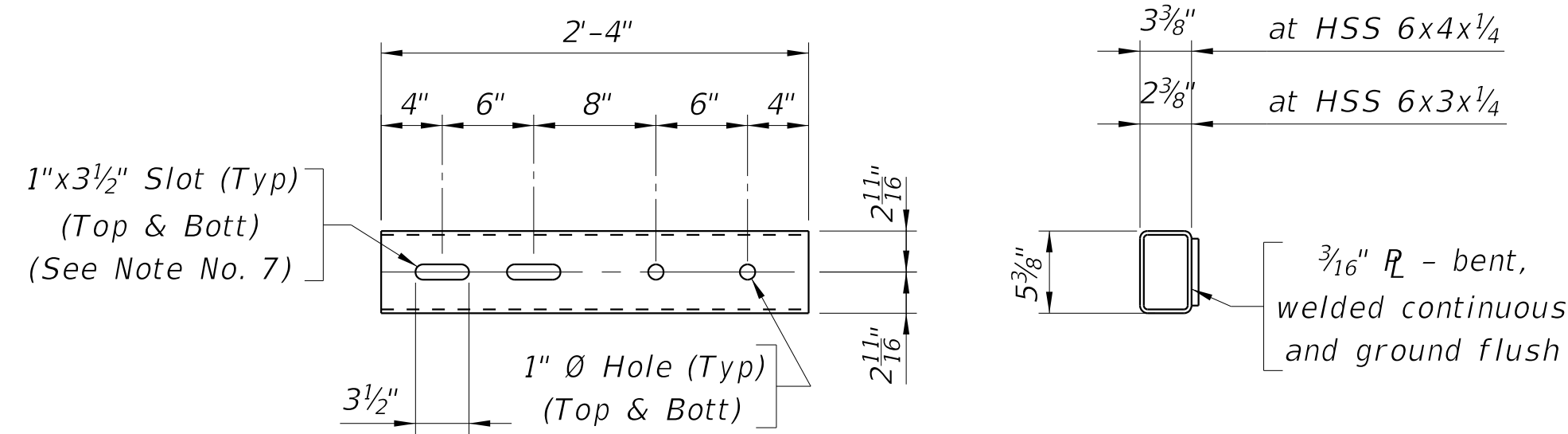


**TOP VIEW**



**FRONT VIEW**

**END OF RAIL**



**TOP VIEW**

**END VIEW**

**STANDARD SLEEVE DETAILS**

**NOTES**

- 1) Either top or bottom rail in terminal section may be the longer rail.
- 2) Ensure each rail length is continuous over a minimum of two posts. Railing that is part of a type 6A terminal is continuous if either the top or bottom rail in the terminal is continuous over a minimum of two posts.
- 3) Ensure the fabricator prepares a sample of the indicated joint and it is macroetched to demonstrate that the required effective throat is achieved.
- 4) Splices may be located on either side of post.
- 5) Not more than one splice is permitted per side of post, except at expansion splices.
- 6) Do not shop splice rails.
- 7) Slots may be omitted in standard sleeves where bolts are required on one side of splice only.
- 8) Holes in Steel Railings may be field drilled for connection to Traffic Barrier Terminal. Any galvanized steel exposed or damaged by drilling operation shall be painted with two coats of a zinc-rich paint conforming to ASTM A 780.

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USER NAME =	DESIGNED - AS	REVISED -
	CHECKED - BLB	REVISED -
PLOT SCALE =	DRAWN - AS	REVISED -
PLOT DATE =	DATE 09-29-17	REVISED -

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

**STEEL RAILING (SPECIAL) DETAILS - II**  
**STRUCTURE NO. 056-3214**

SHEET NO. 5 OF 6 SHEETS

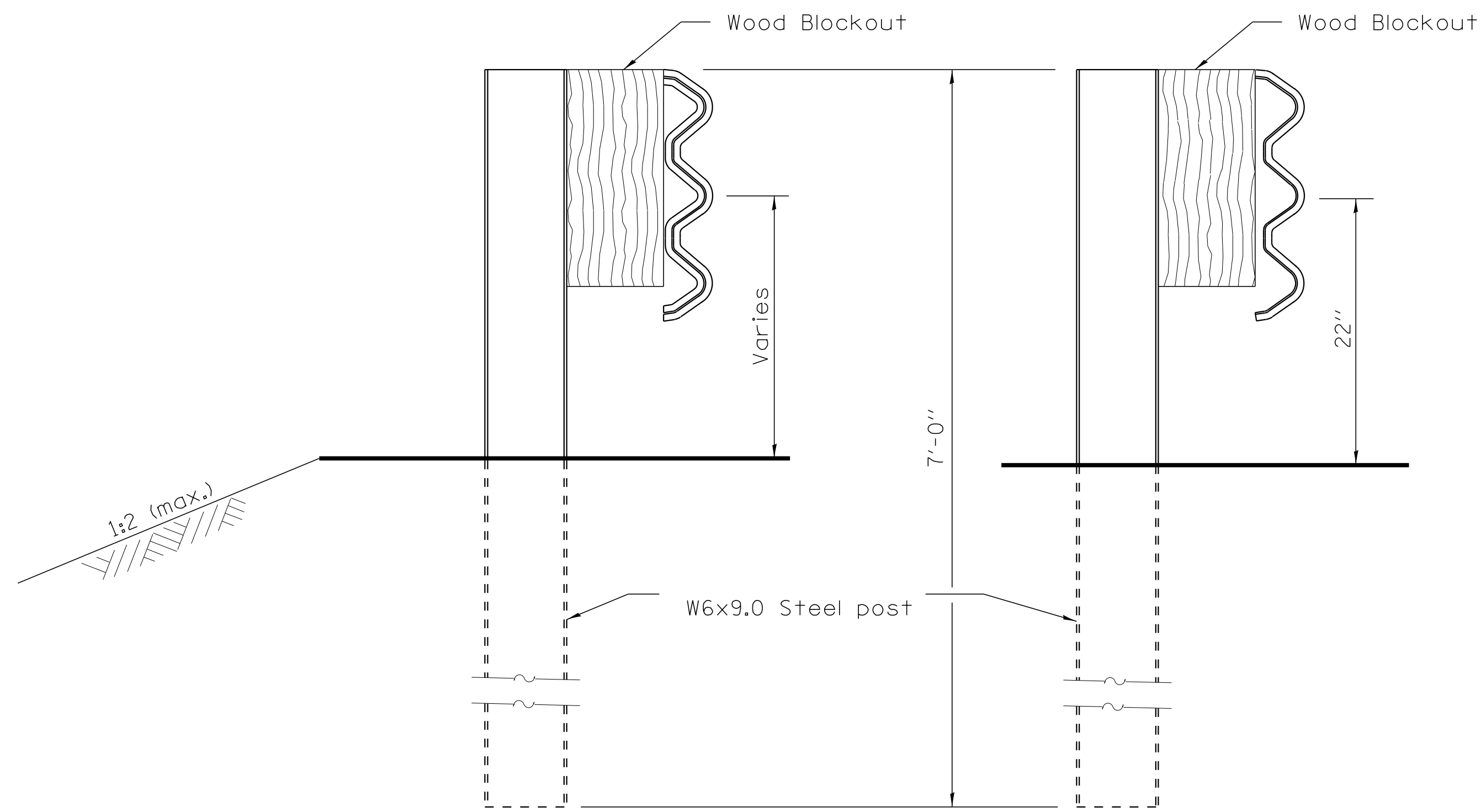
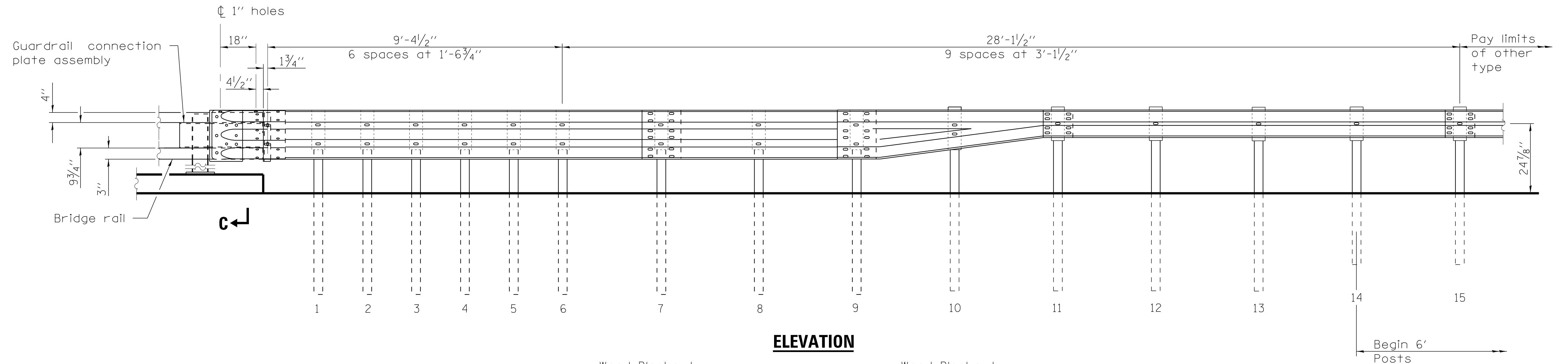
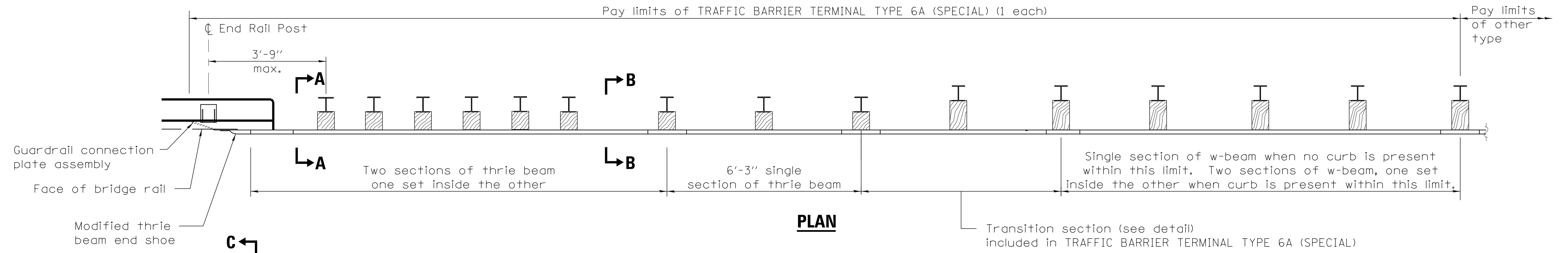
TR RTE	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
0135	14-00433-00-BR	McHENRY	40	23
CONTRACT NO. 61E23			ILLINOIS FED. AID PROJECT	











**GENERAL NOTES**

- See Standard 630001 for details of guardrail not shown.
- Thrie beam rail shall be bolted to block-out at all posts.
- All slope ratios are expressed as units of vertical displacement to units of horizontal displacement (V:H).

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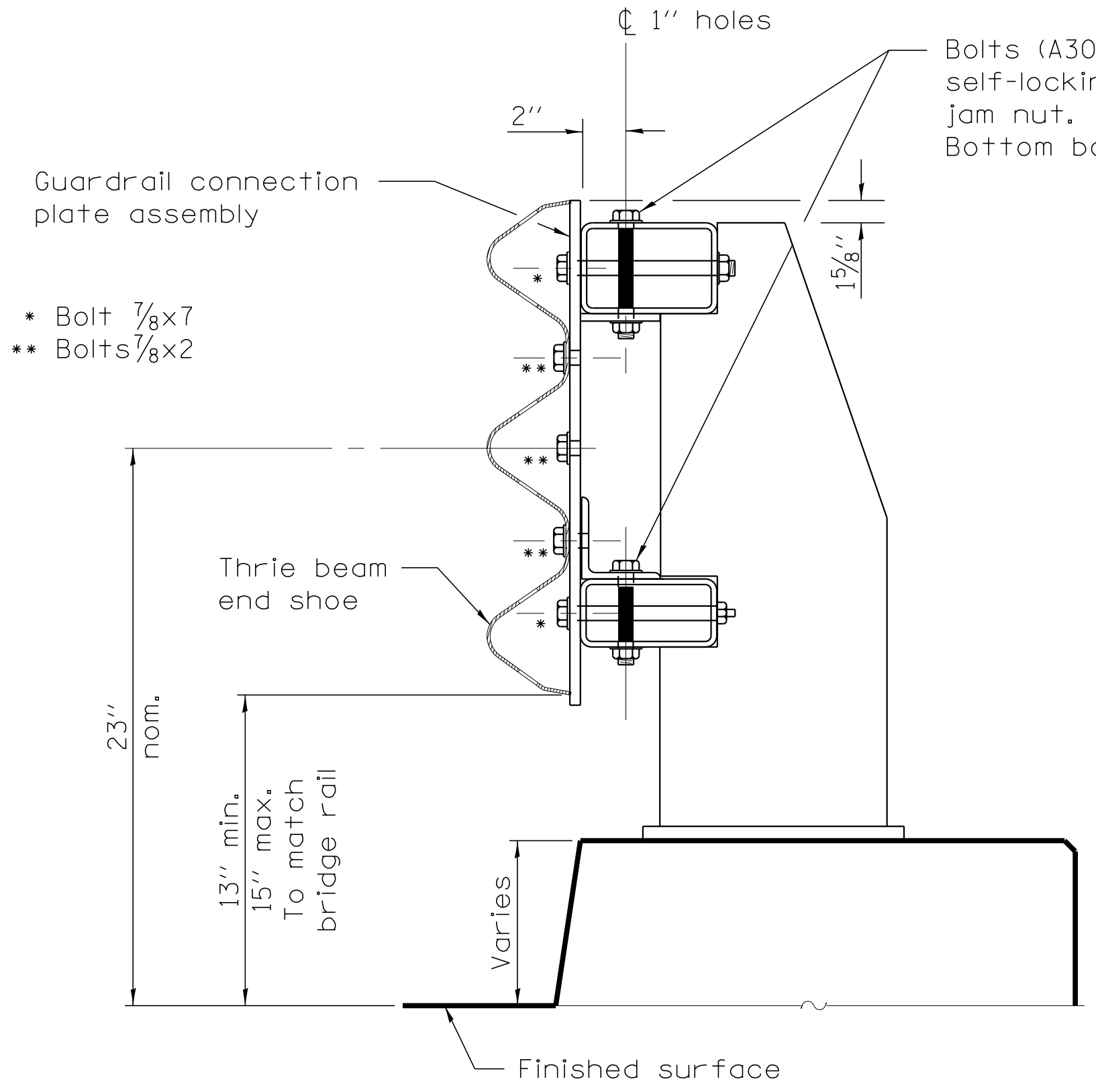
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PLOT DATE =	DATE 09-29-17	REVISED -

**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

**TRAFFIC BARRIER TERMINAL TYPE 6A (SPECIAL)  
STRUCTURE NO. 056-3214**

SHEET NO. 1 OF 3 SHEETS

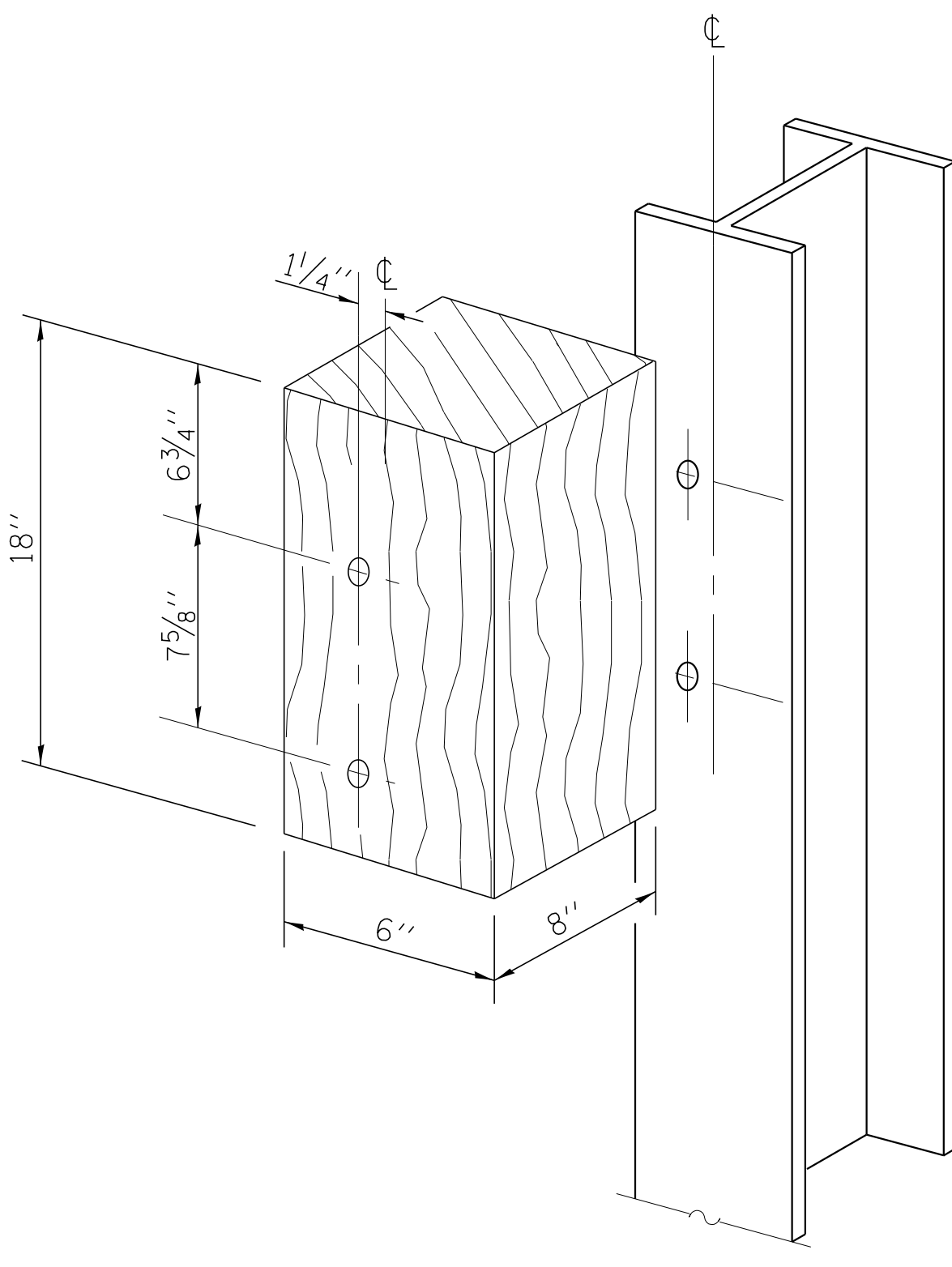
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CONTRACT NO. 61E23				
ILLINOIS FED. AID PROJECT				



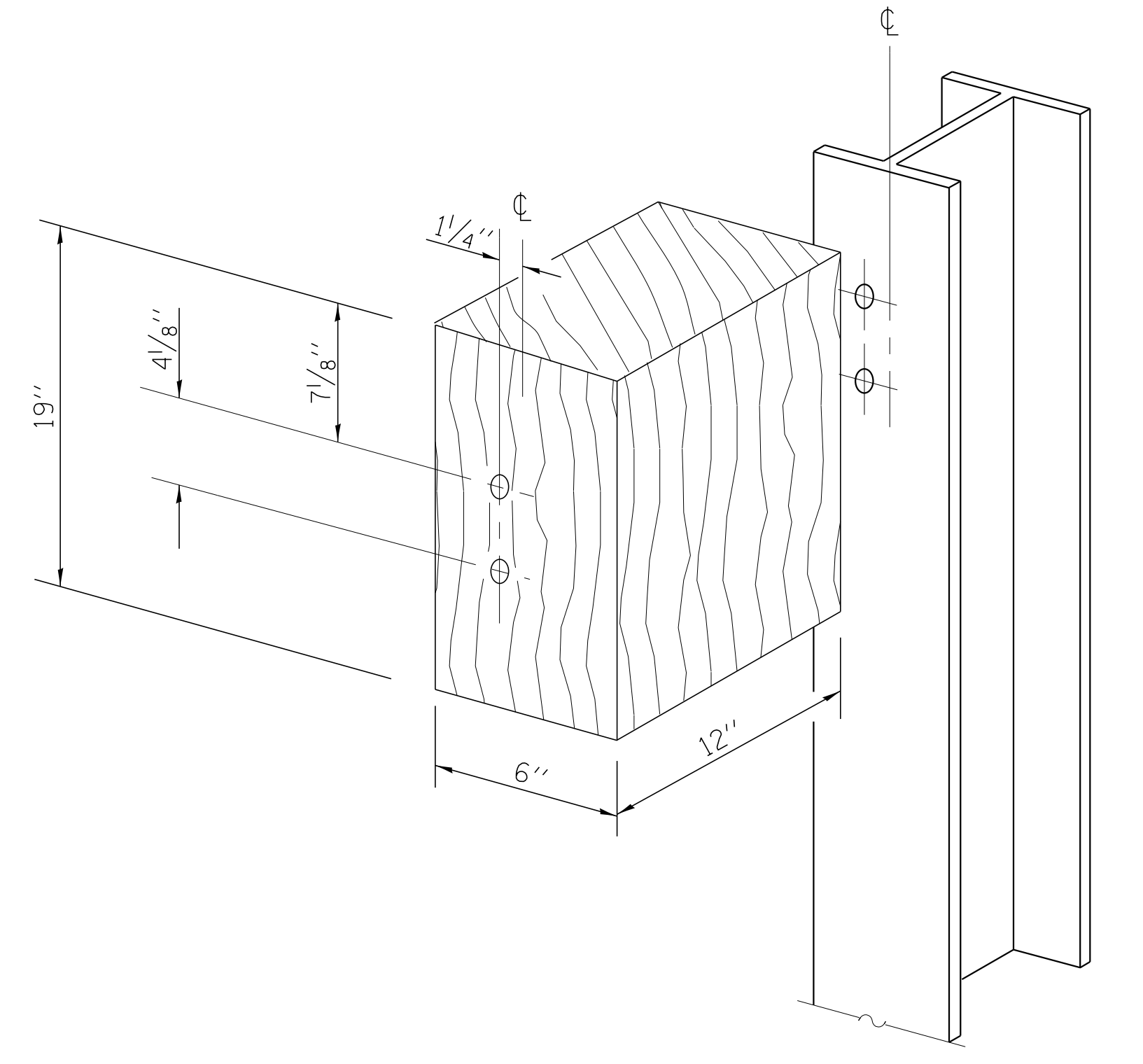
- \* Bolt 7/8x7
- \*\* Bolts 7/8x2

Bolts (A307) with washers and self-locking nut, or nut and jam nut. Top bolt 7/8x5. Bottom bolt 7/8x4.

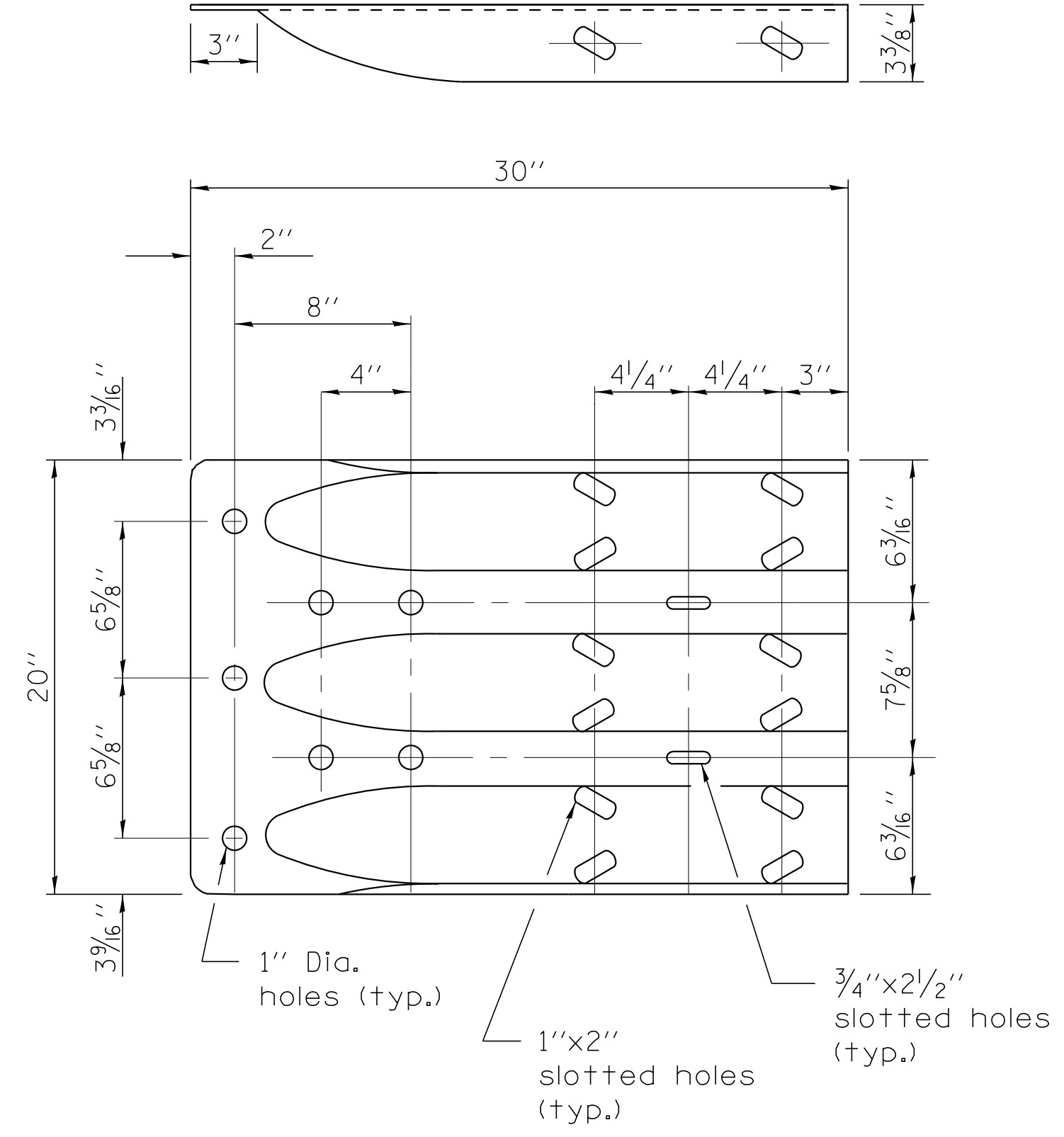
**SECTION C-C**



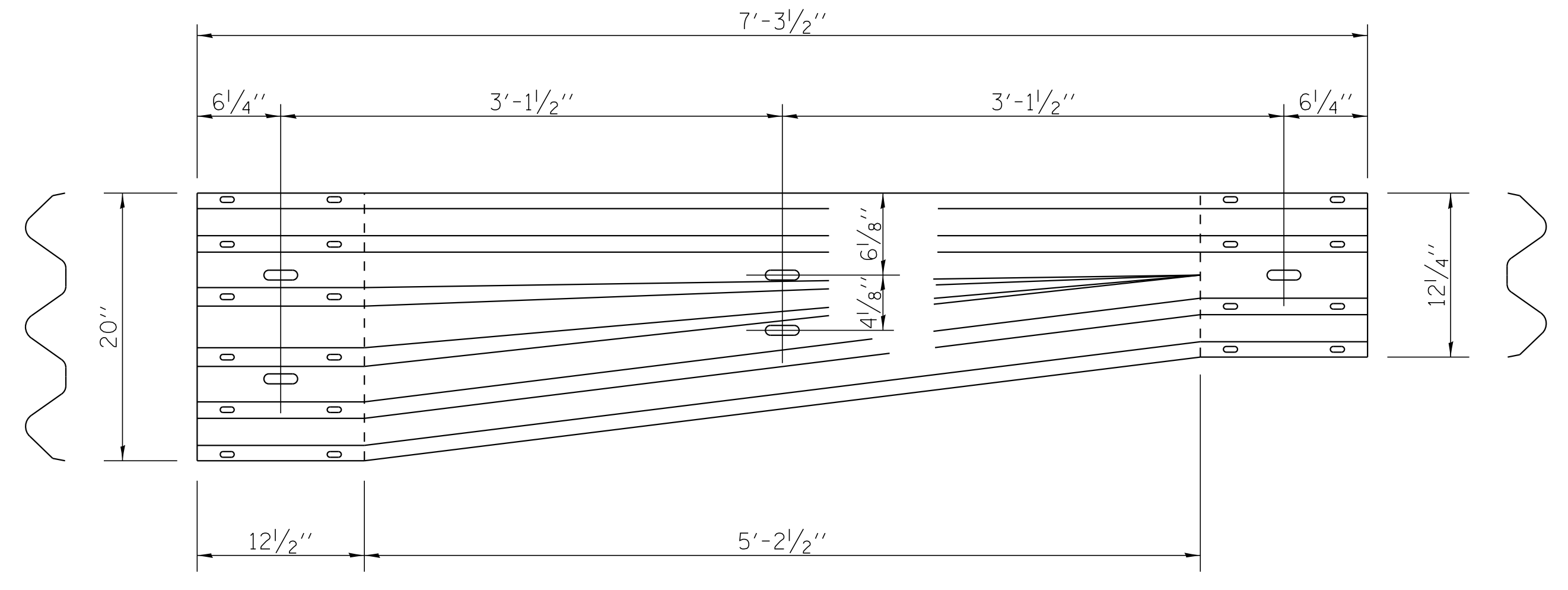
**POSTS 1-9 WOOD BLOCKOUT DETAIL**



**POST 10 WOOD BLOCKOUT DETAIL**  
(See Standard 630001 for post 11-15 blockouts.)



**MODIFIED THRIE BEAM END SHOE DETAIL**



**TRANSITION SECTION**  
(10 gauge rail element)

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 LICENSE NO. 184-001121 - EXPIRES 12/20/2017  
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 USER: BAXTER & WOODMAN, INC.  
 DATE: 09-29-17

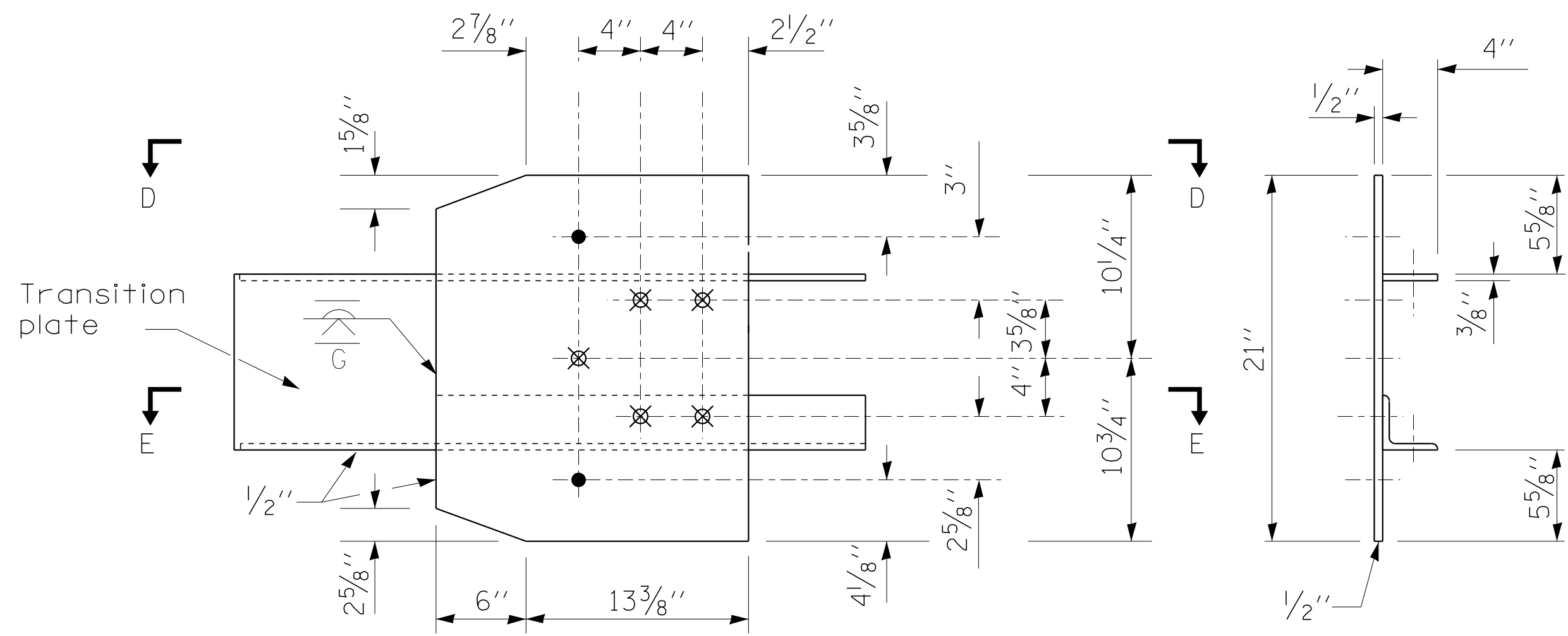
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PLOT DATE	DATE 09-29-17	REVISED -

**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

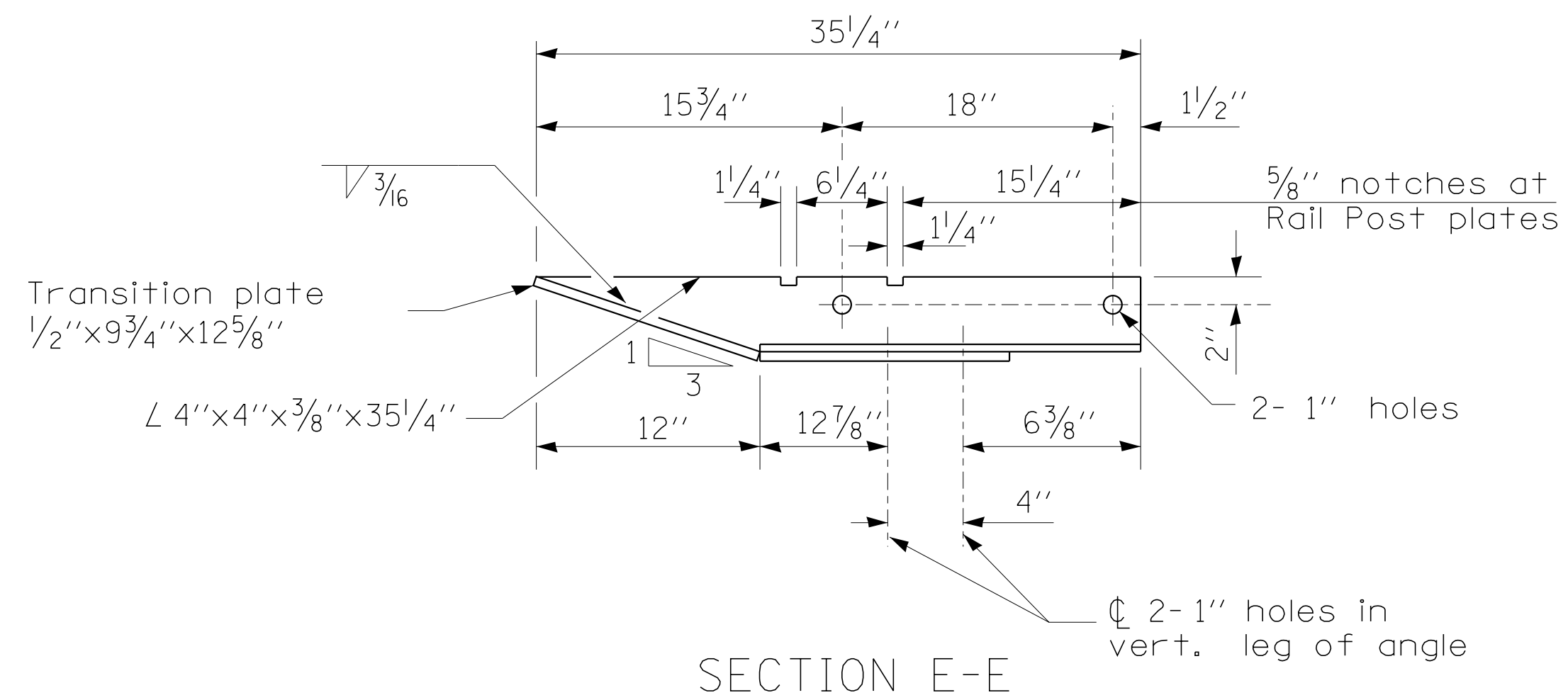
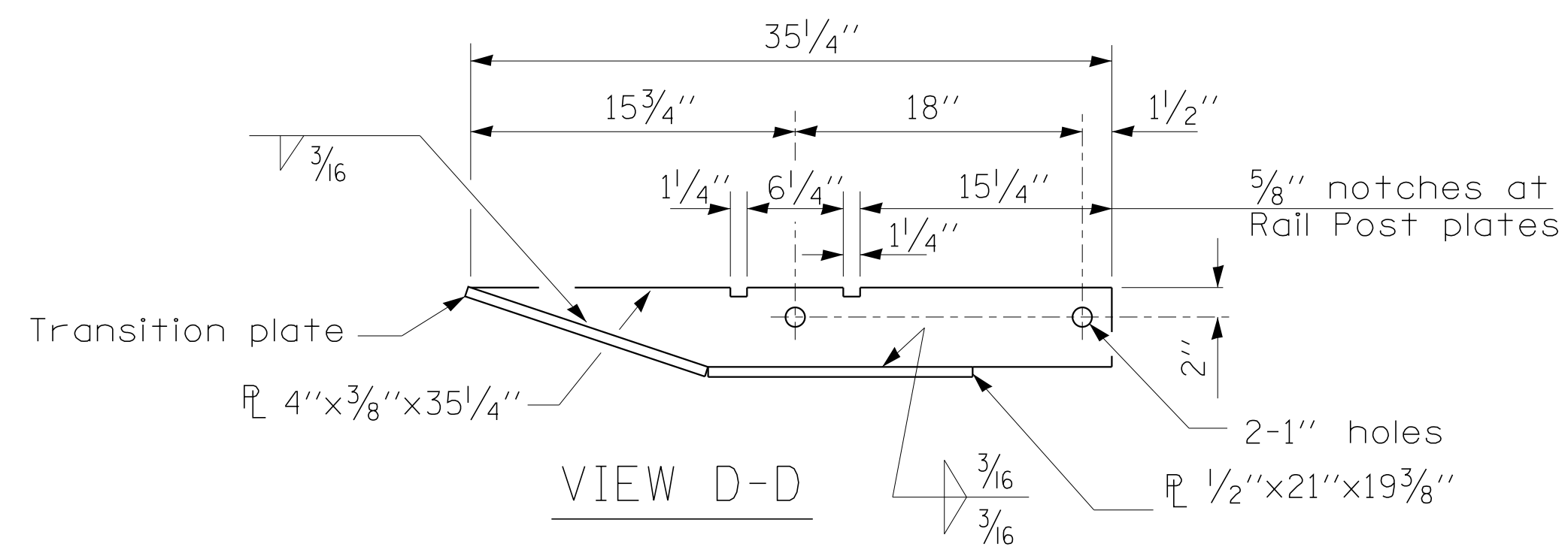
**TRAFFIC BARRIER TERMINAL TYPE 6A (SPECIAL)  
STRUCTURE NO. 056-3214**

TR RTE 0135	SECTION 14-00433-00-BR	COUNTY McHENRY	TOTAL SHEETS 40	SHEET NO. 27
CONTRACT NO. 61E23			ILLINOIS FED. AID PROJECT	



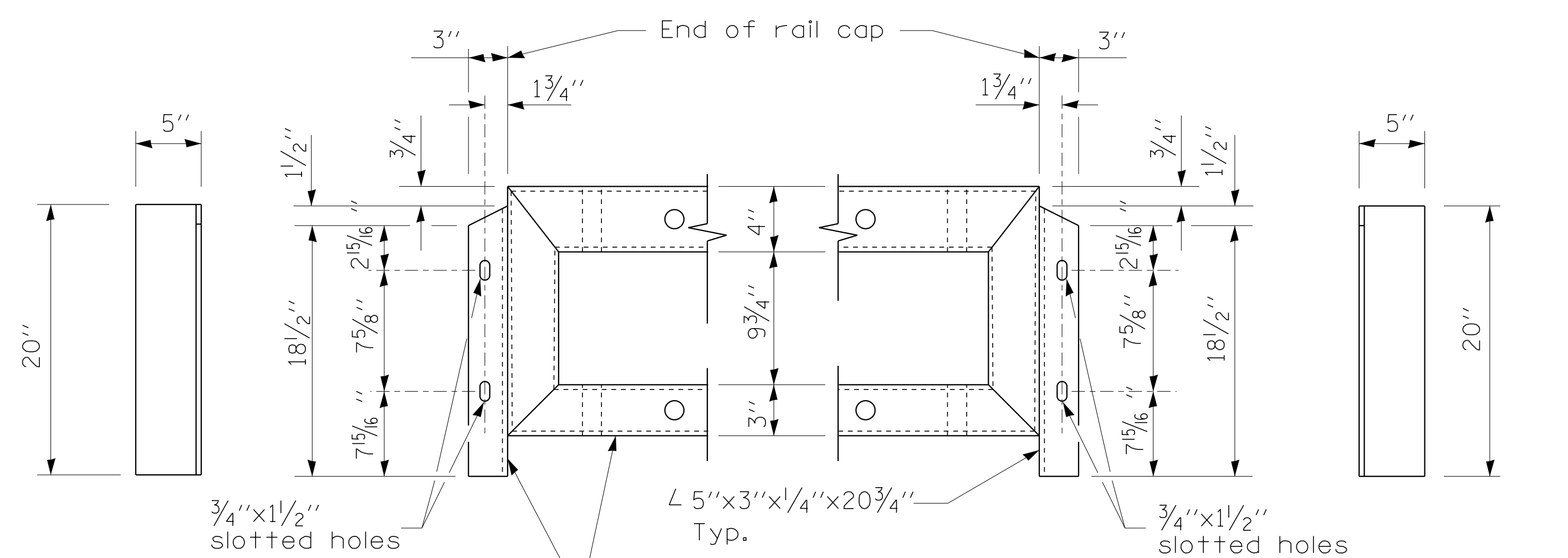


**GUARDRAIL CONNECTION PLATE ASSEMBLY DETAILS**  
(Mirror for opposite end)



- $\phi$  4-1" holes for 7/8" H.S. bolts and nuts
- ⊗ Drill and tap 3 holes for 7/8" H.S. bolts.

**LEGEND**



**DEPARTURE END VIEW**

**APPROACH END VIEW**

Rail ends and connection angles, typ. See Steel Railing (Special) Details

**CONNECTION ANGLES**

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USER NAME =	DESIGNED - AS	REVISED -
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PLOT DATE	DATE 09-29-17	REVISED -

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

**TRAFFIC BARRIER TERMINAL TYPE 6A (SPECIAL)**  
**STRUCTURE NO. 056-3214**

SHEET NO. 3 OF 3 SHEETS

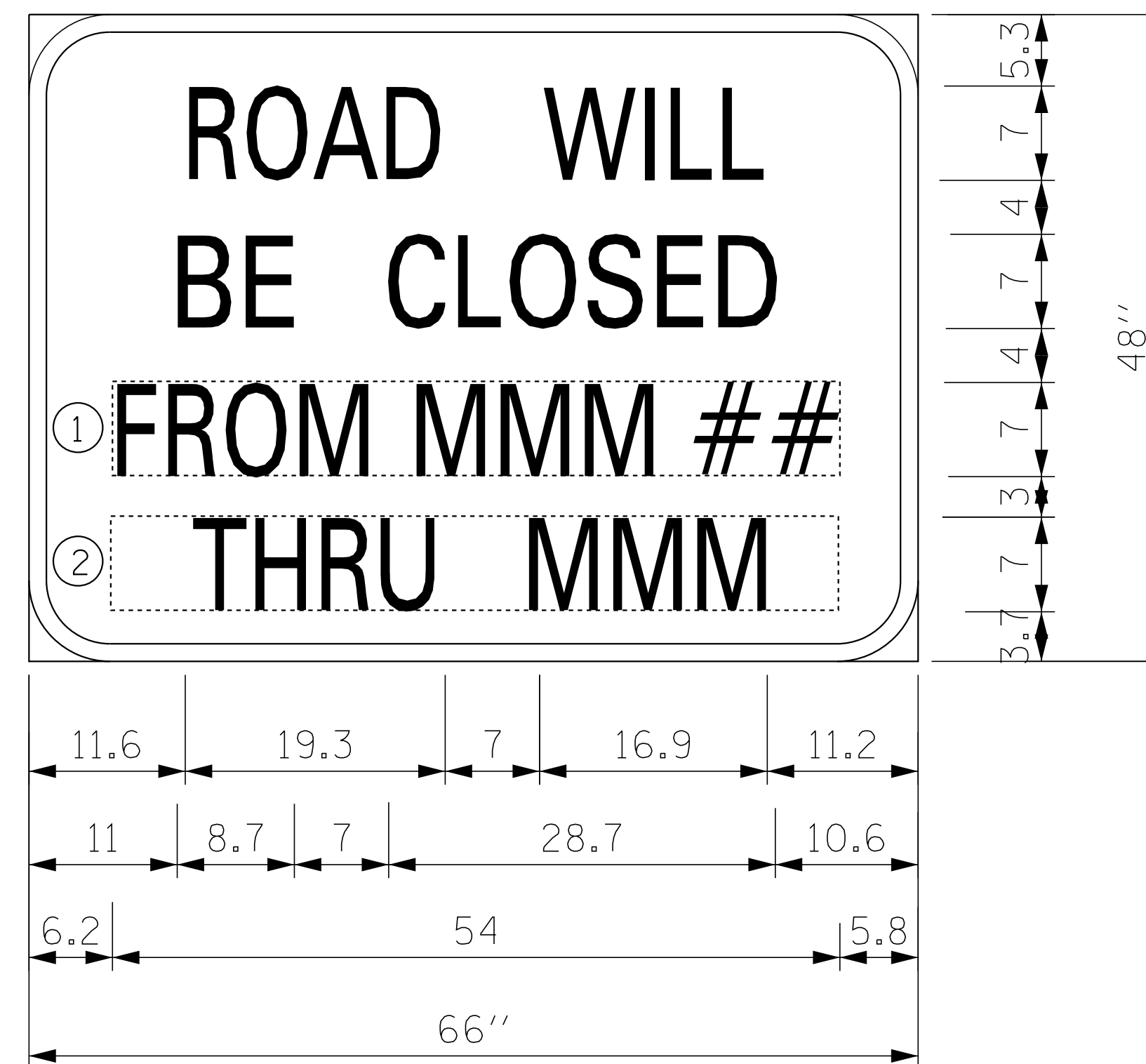
TR RTE	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
0135	14-00433-00-BR	McHENRY	40	28
CONTRACT NO. 61E23				

ILLINOIS FED. AID PROJECT



**ARTERIAL ROAD INFORMATION SIGN  
FOR ROADS TO BE FULLY CLOSED AND DETOURED**

SIGN SHALL BE PAID FOR AS TEMPORARY INFORMATION SIGNING.  
ONE SIGN ASSEMBLY EQUALS 27.3 SQ. FT.



6.0" RADIUS, 1.3" BORDER, BLACK ON ORANGE  
 "ROAD WILL" C 2K; "BE CLOSED" C 2K;  
 RECTANGLE ORANGE; RECTANGLE ORANGE;  
 "HIGHWAY C" FONT

- ① OVERLAY PANEL ① TO CONTAIN STARTING DATE OF FULL CLOSURE AND DETOUR IMPLEMENTATION (I.E. "FROM APR 2").
- ② OVERLAY PANEL ② TO CONTAIN ENDING MONTH OF FULL CLOSURE AND DETOUR (I.E. "THRU JULY"). OMIT THE DATE ON PANEL ②; MONTH ONLY.

ERECT SIGN ASSEMBLY (POST-MOUNTED WITH PANELS ① AND ②) IN PLACE ON ROAD TO BE CLOSED IN EACH DIRECTION NEAR POINT OF CLOSURE OR WITHIN SECTION TO BE FULLY CLOSED TWO (2) WEEKS PRIOR TO START DATE OF FULL CLOSURE. REMOVE ASSEMBLY AFTER CLOSURE.

DESIGNED - JDM	REVISED -
DRAWN - CJC	REVISED -
CHECKED - DTH	REVISED -
DATE - 09-29-17	FILE - 140217SHT-MiscDetails.dgn

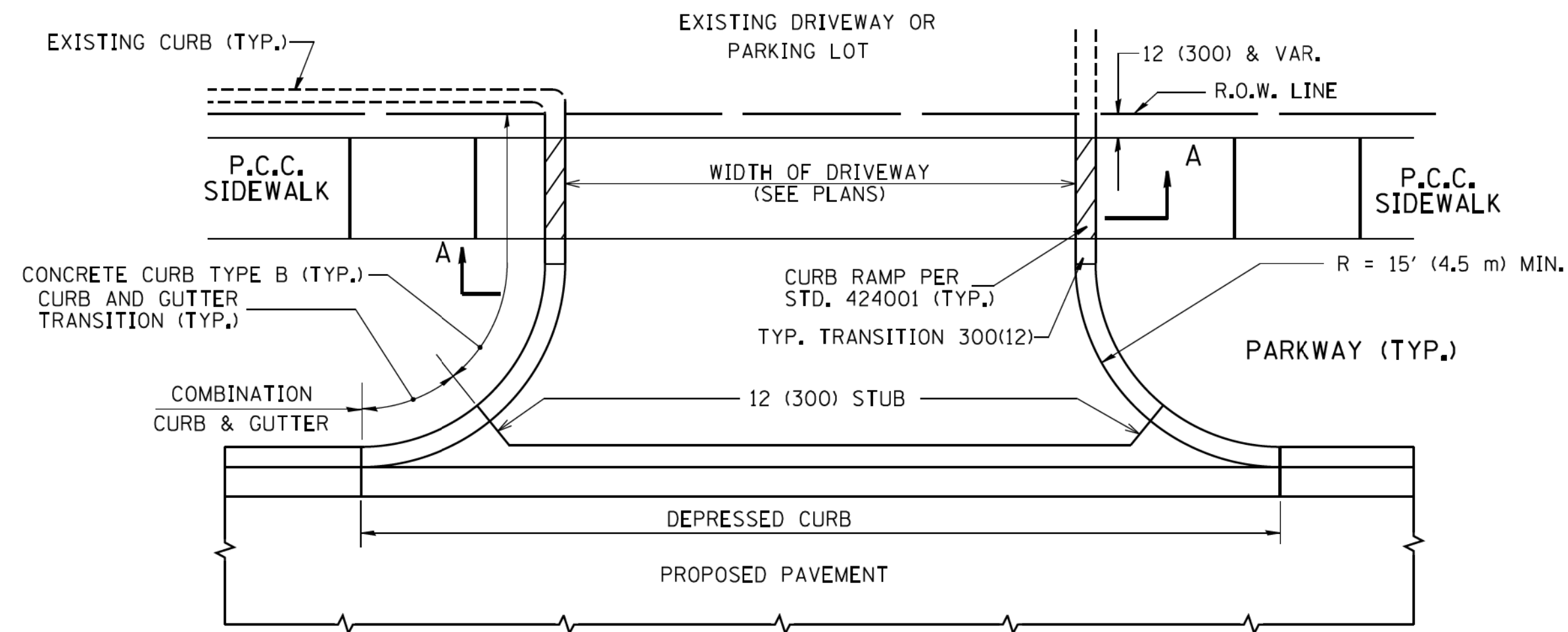
**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

**ARTERIAL ROAD INFORMATION SIGN  
FOR ROADS TO BE FULLY CLOSED AND DETOURED**

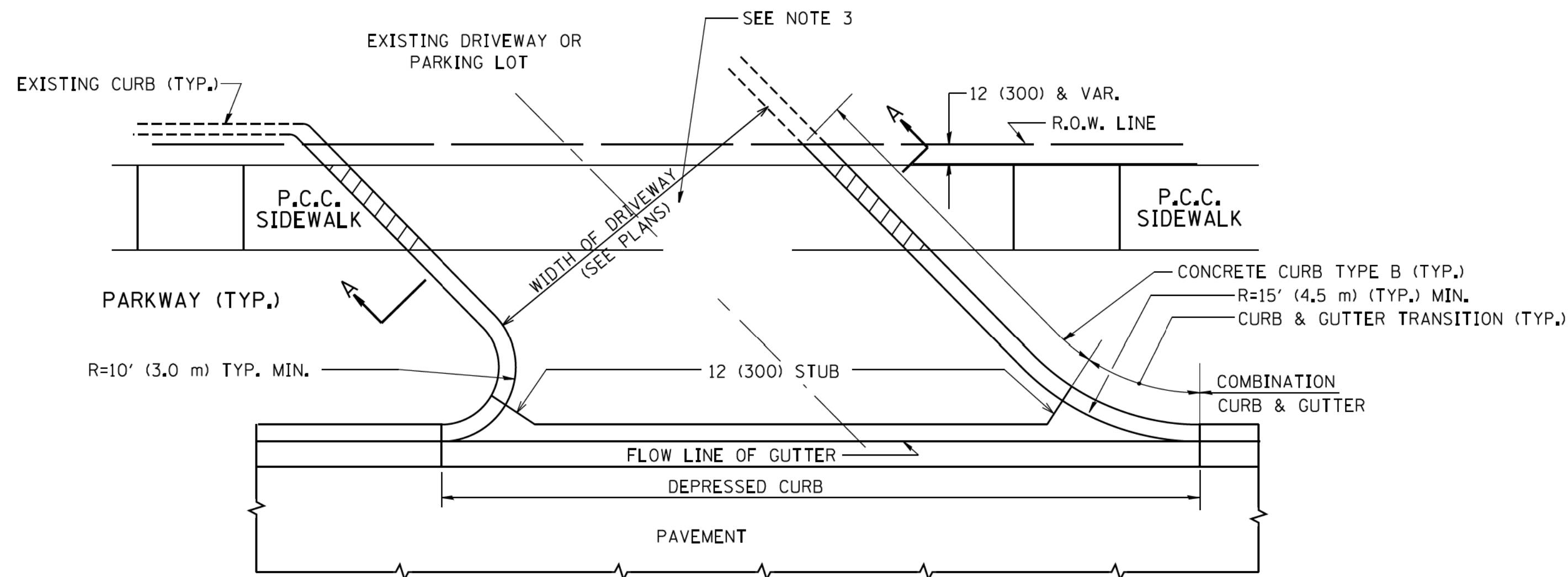
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STA. TO STA.

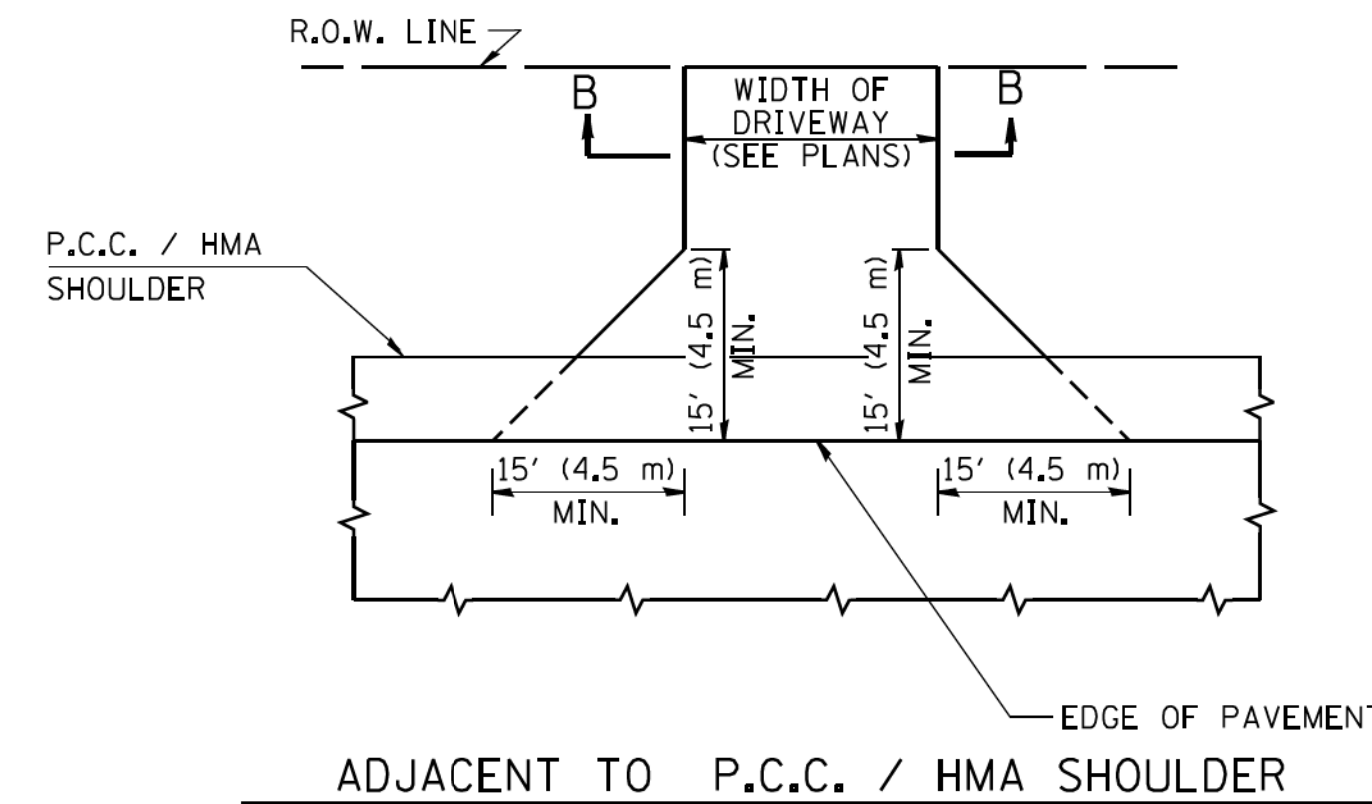
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0135	14-00433-00-BR	MCHENRY	40	29
FED. ROAD DIST. NO. ILLINOIS FED. AID PROJECT			CONTRACT NO. 61E23	



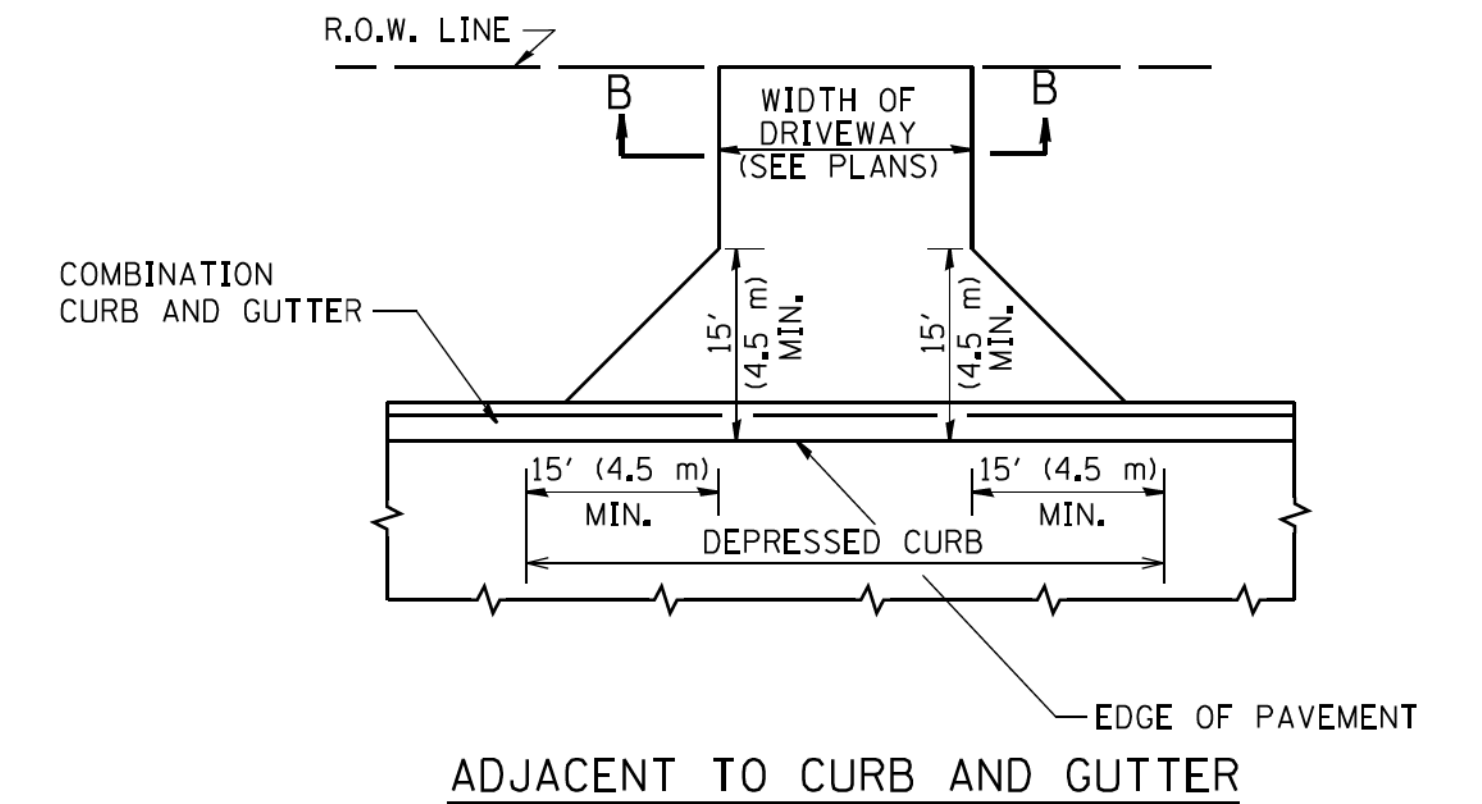
WITH CONCRETE CURB, TYPE B



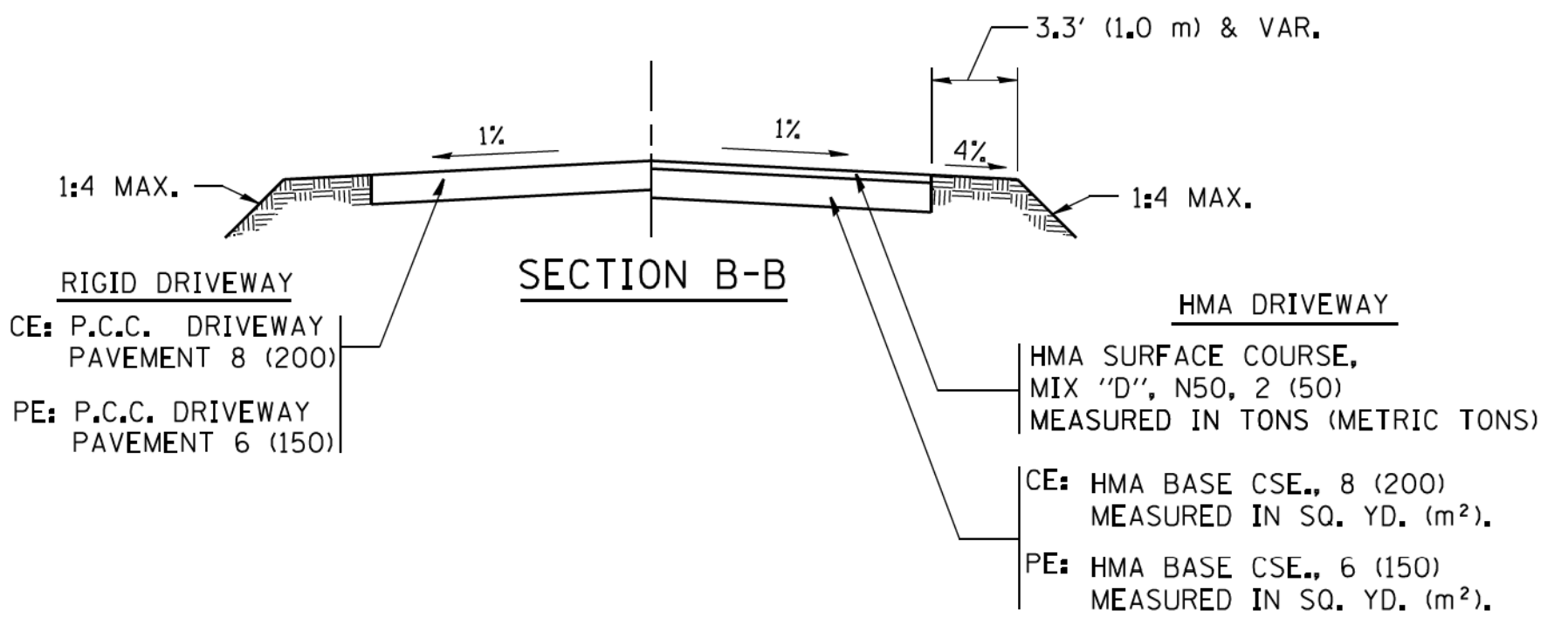
WITH CONCRETE CURB, TYPE B



ADJACENT TO P.C.C. / HMA SHOULDER



ADJACENT TO CURB AND GUTTER



RURAL FIELD ENTRANCE (FE)

HMA SURFACE COURSE, MIX 'D', N50, 2 (50) MEASURED IN TONS (METRIC TONS)

AGGREGATE BASE CSE., TYPE B, 8 (200) MEASURED IN SQ. YD. (m²).

**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.

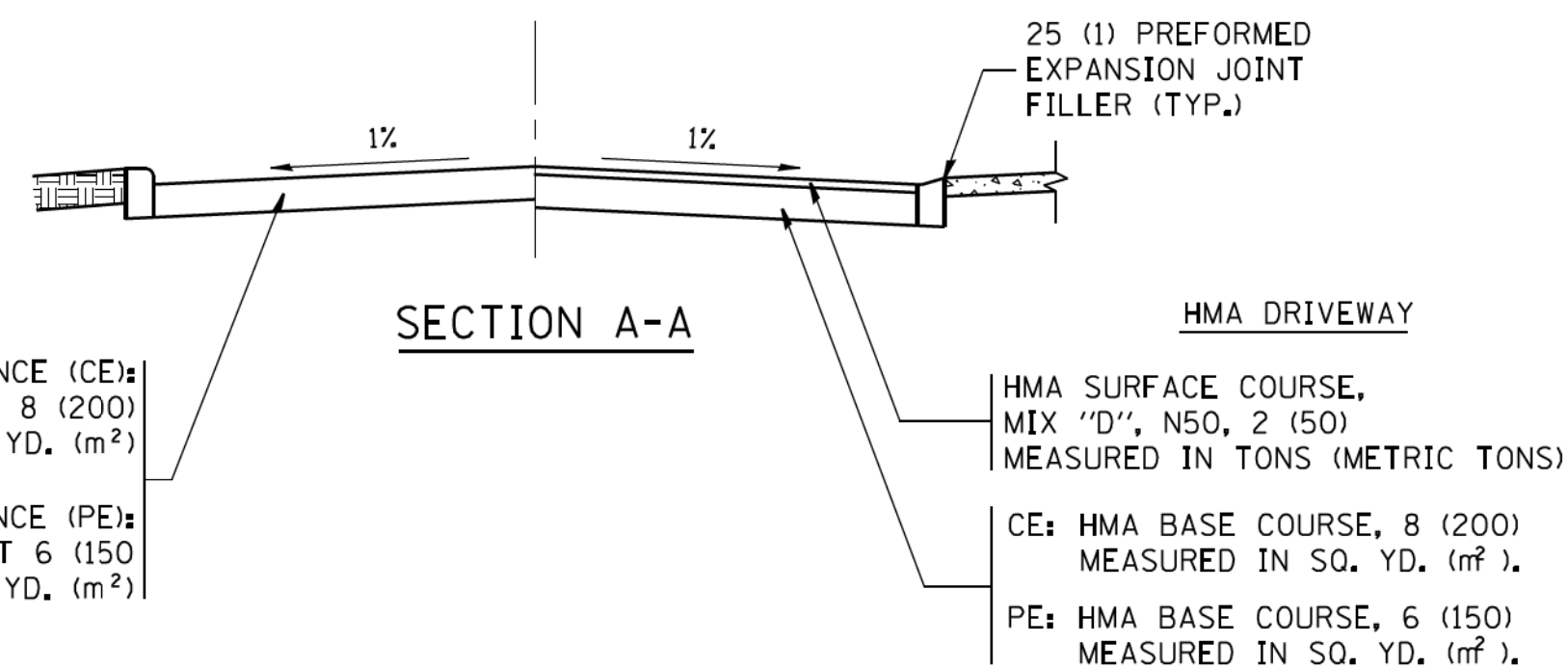
COMMERCIAL DRIVEWAYS SHALL BE CONSTRUCTED WITH CONCRETE CURB, TYPE B RETURNS EXCEPT WHEN THE SIDEWALK EDGE IS 4 FEET (1.2 METERS) OR LESS FROM THE BACK OF CURB, CONSTRUCT A FLARE DRIVEWAY WITHOUT CURB.

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.



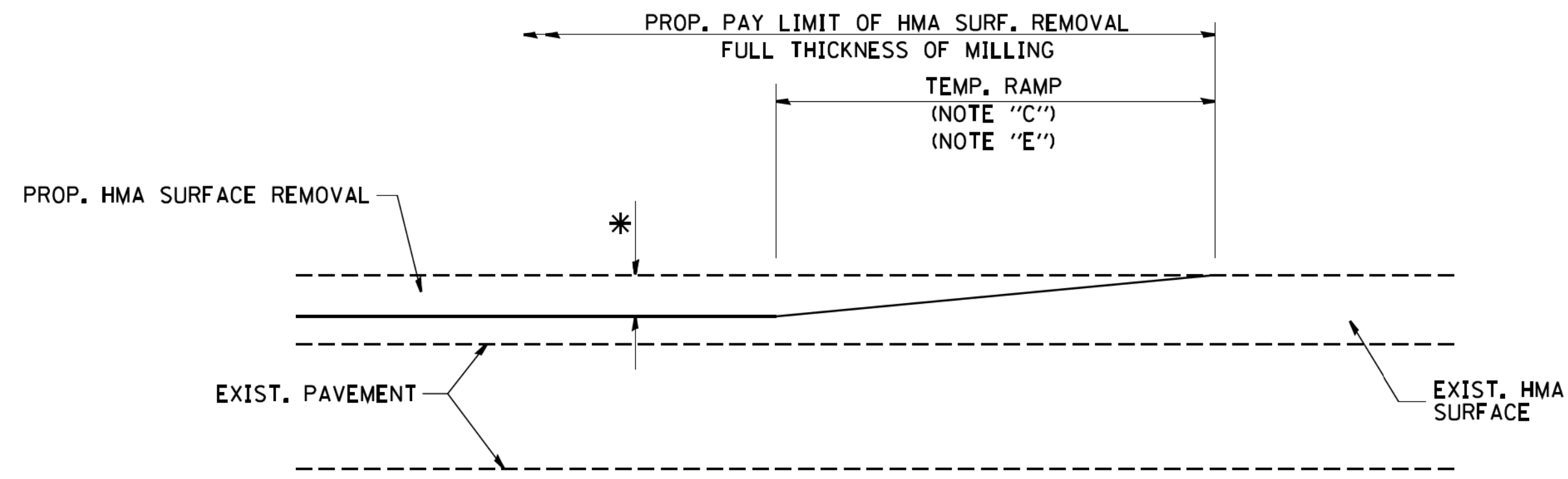
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 STATE OF ILLINOIS - PROFESSIONAL DESIGN FIRM  
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 PROJECT NAME - I-55/20/2017  
 PROJECT LOCATION - I-55/20/2017  
 PROJECT DESCRIPTION - BRIDGE/CADD/SHEETS  
 PROJECT DRAWING NO. - BD01

FILE NAME =	USER NAME = lrysa	DESIGNED - R. SHAH	REVISED - P. LaFLUER 04-15-03
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		CHECKED -	REVISED - R. BORO 06-11-08
		DATE - 11-04-95	REVISED - R. BORO 09-06-11

**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

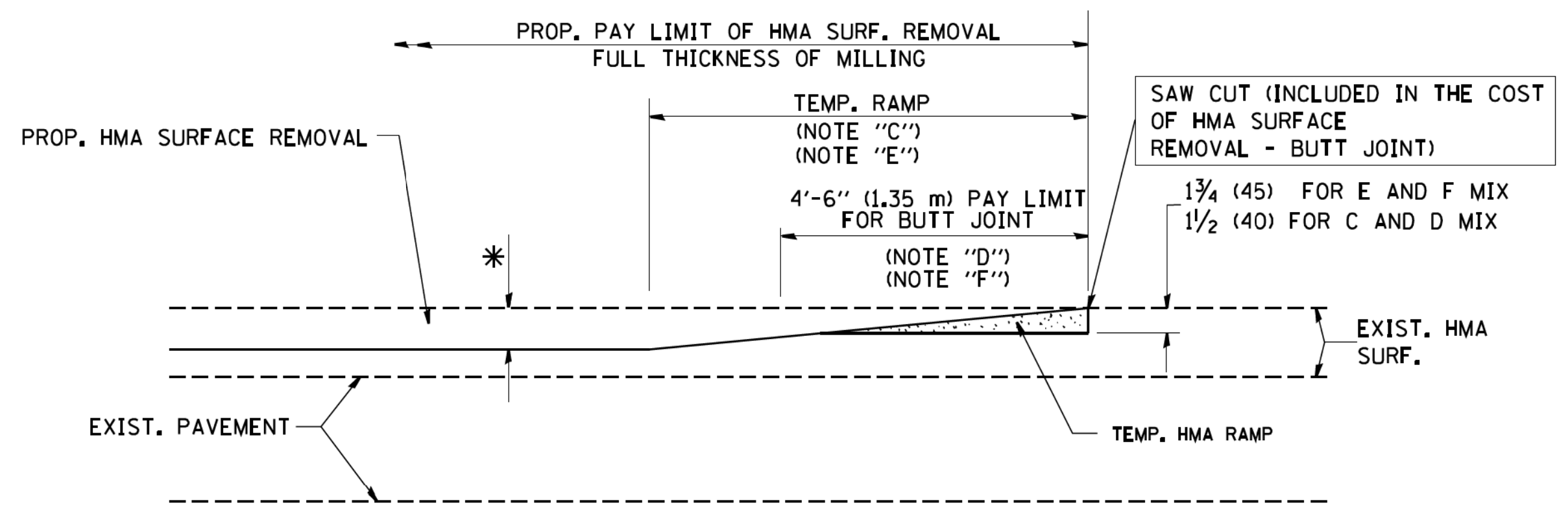
<b>DRIVEWAY DETAILS - DISTANCE BETWEEN R.O.W. AND FACE OF CURB &amp; EDGE OF SHOULDER &gt;= 15' (4.5 m)</b>	
SCALE: NONE	SHEET NO. 1 OF 1 SHEETS STA. TO STA.

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
0135	14-00433-00-BR	McHENRY	40	30
<b>BD0156-07 (BD-01)</b>		CONTRACT NO. 61E23		
FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT				



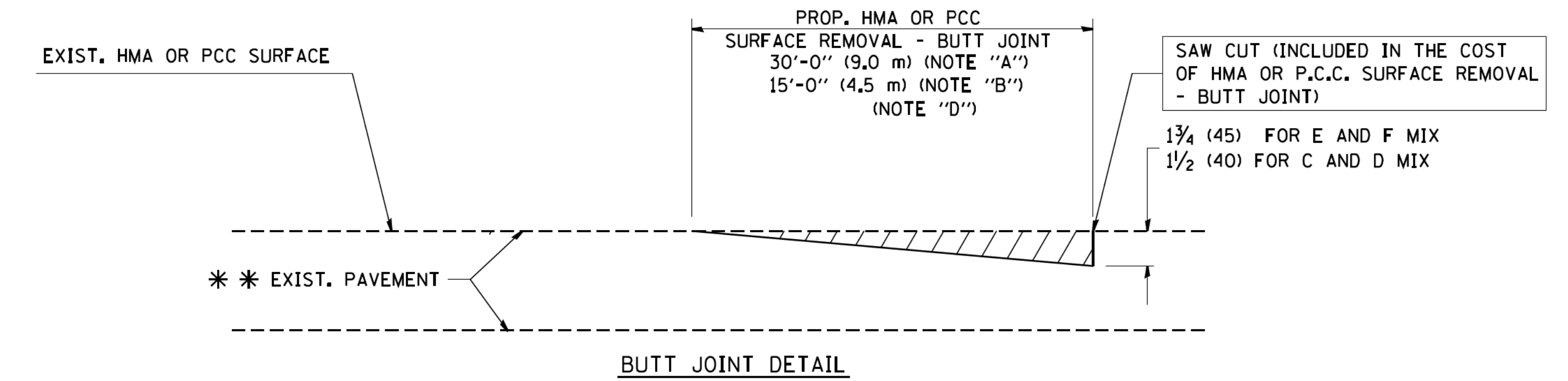
**MILLED TEMPORARY RAMP**  
(FOR BUTT JOINT AND HMA TAPER SEE DETAIL BELOW)

**OPTION 1**

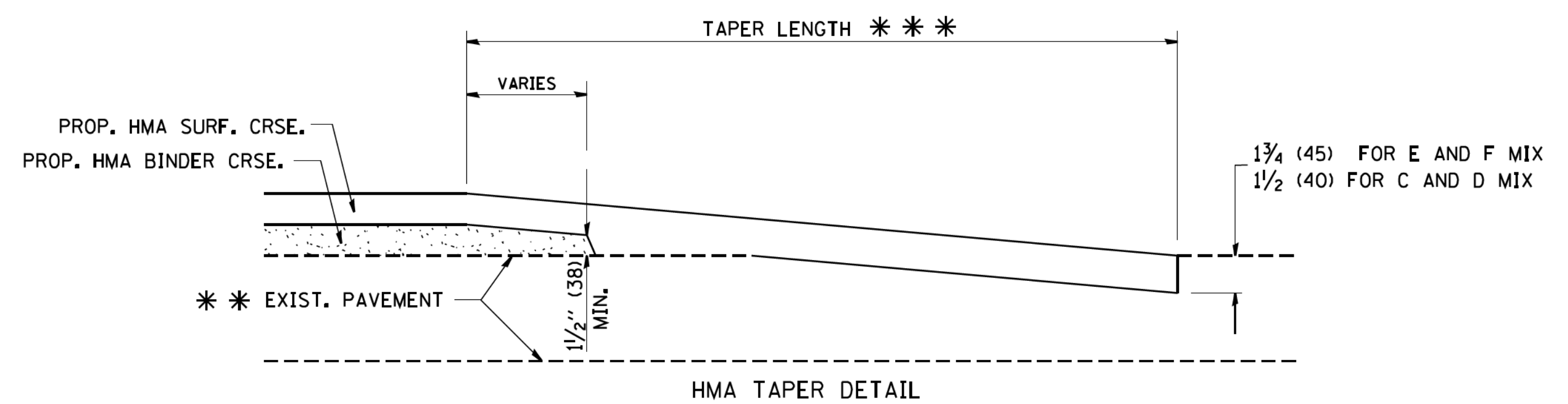


**HMA CONSTRUCTED TEMPORARY RAMP**  
(FOR BUTT JOINT AND HMA TAPER SEE DETAIL BELOW)

**OPTION 2**  
**TYPICAL TEMPORARY RAMP**



**BUTT JOINT DETAIL**



**HMA TAPER DETAIL**

**TYPICAL BUTT JOINT AND HMA TAPER FOR RESURFACING ONLY**

\*\*\* PC CONCRETE, HMA OR HMA RESURFACED PAVEMENT.

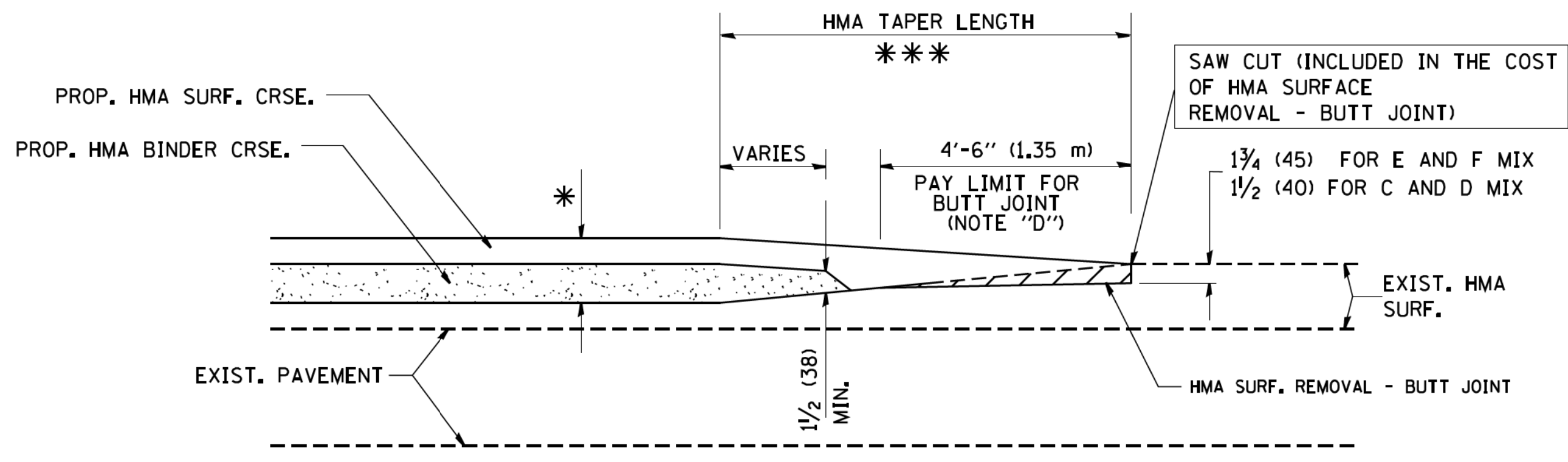
**NOTES**

- A: MAINLINE ROADWAYS AND MAJOR SIDE ROADS.
  - B: MINOR SIDE ROADS.
  - C: THE TEMP. RAMP SHALL BE CONSTRUCTED IMMEDIATELY UPON REMOVAL OF THE EXISTING HMA SURFACE.
  - D: THE BUTT JOINT SHALL BE CONSTRUCTED IMMEDIATELY PRIOR TO PLACING THE PROPOSED HMA COURSES.
  - E: TAPER THE TEMP. RAMP AT A RATE OF 3'-0" (900 mm) PER 1 INCH (25 mm) OF MILLING THICKNESS.
  - F: INSTALLATION AND REMOVAL OF THE 4'-6" (1.35 m) TEMP. RAMP IS INCLUDED IN COST OF HMA SURFACE REMOVAL - BUTT JOINT
  - G: SEE ARTICLE 406.08 AND 406.14 OF THE STANDARD SPECIFICATIONS FOR "HMA AND/OR PCC SURFACE REMOVAL, BUTT JOINT".
- \* SEE TYPICAL SECTIONS FOR MILLING THICKNESS.
- \*\*\* 20'-0" (6.1 m) PER 1 (25) RESURFACING (NOTE "A")  
10'-0" (3.0 m) PER 1 (25) RESURFACING (NOTE "B")

**BASIS OF PAYMENT:**

THE BUTT JOINT WILL BE PAID FOR AT THE CONTRACT UNIT PRICE PER SQUARE YARD (SQUARE METER) FOR "HOT-MIX ASPHALT SURFACE REMOVAL - BUTT JOINT" OR FOR "PORTLAND CEMENT CONCRETE SURFACE REMOVAL - BUTT JOINT".

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



**TYPICAL BUTT JOINT AND HMA TAPER FOR MILLING AND RESURFACING**

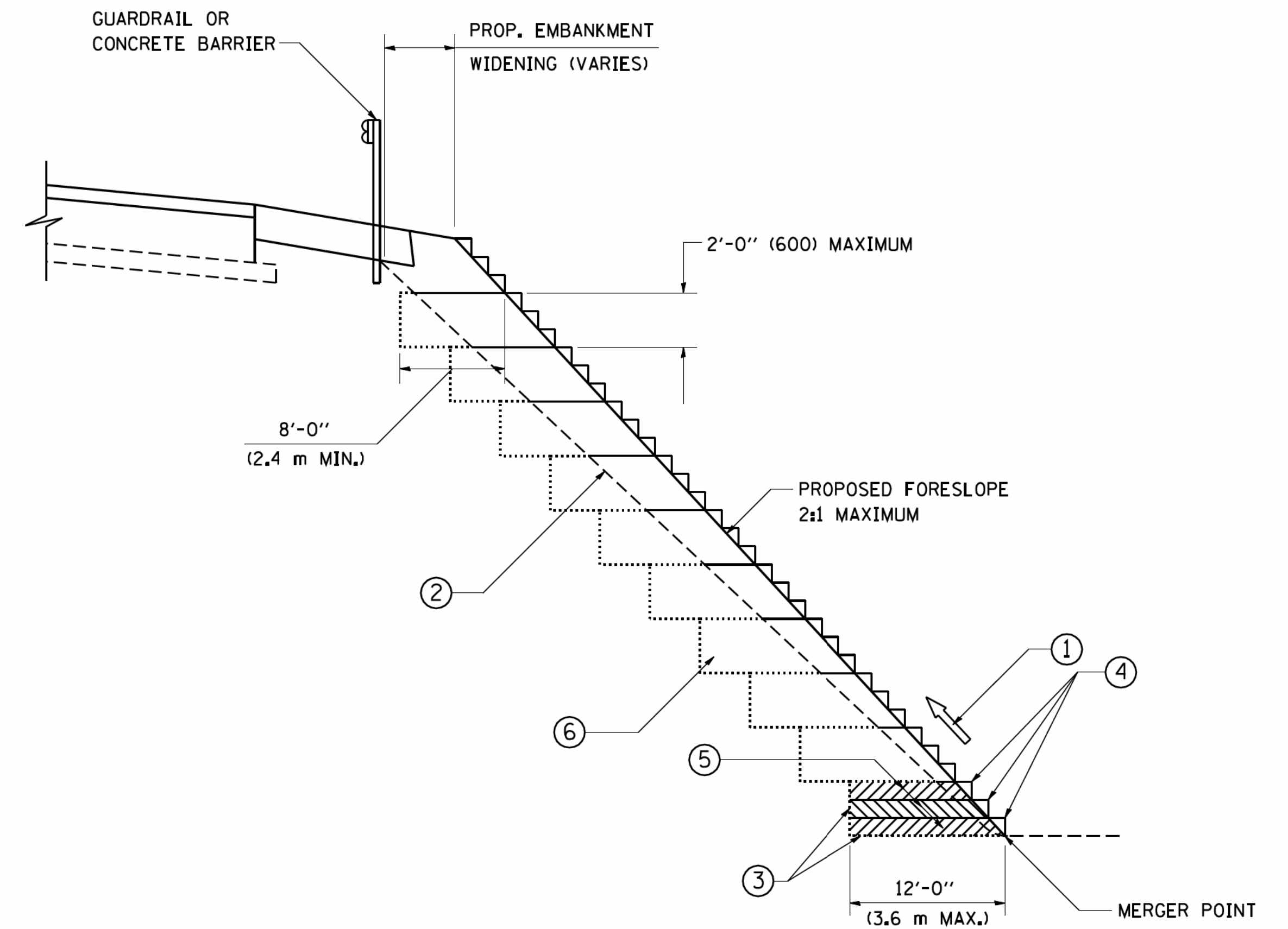
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 STATE OF ILLINOIS - PROFESSIONAL DESIGN FIRM  
 PROJECT NO. 14-00433-00-BR  
 SHEET NO. 40 OF 31  
 DATE: 1/4/2008  
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	PLOT SCALE = 50.0000' / 1 IN.	CHECKED -	REVISED - M. GOMEZ 04-06-01
	PLOT DATE = 1/4/2008	DATE - 06-13-90	REVISED - R. BORO 01-01-07

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

<b>BUTT JOINT AND HMA TAPER DETAILS</b>	
SCALE: NONE	SHEET NO. 1 OF 1 SHEETS STA. TO STA.

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
0135	14-00433-00-BR	McHENRY	40	31
<b>BD400-05 BD32</b>		<b>CONTRACT NO. 61E23</b>		
FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT				



**TYPICAL BENCHING DETAIL  
FOR EMBANKMENT**

**NOTES:**

- ① CONSTRUCT SUCCEEDING BENCH CUTS AND EMBANKMENT PLACEMENT AND COMPACTION FROM BOTTOM TO TOP IN STAIRSTEP FASHION.
- ② EXISTING FORESLOPE PREPARED IN ACCORDANCE WITH ARTICLE 205.03 OF THE STANDARD SPECIFICATIONS.
- ③ BENCH CUT EXISTING SLOPE TYPICAL FOR EACH STEP.
- ④ TRIM TO FINAL SLOPE.
- ⑤ EQUAL 8-INCH (200) LIFTS OF EMBANKMENT COMPACTED IN ACCORDANCE WITH ARTICLE 205.05 OF THE STANDARD SPECIFICATIONS.
- ⑥ EXCAVATION OF BENCH CUTS WITHIN EXISTING EMBANKMENT WILL BE PAID FOR AT THE CONTRACT UNIT PRICE PER CUBIC METER OR CUBIC YARD FOR 'EARTH EXCAVATION'. THIS PRICE WILL INCLUDE ALL LABOR AND MATERIAL, NO ADDITIONAL COMPENSATION WILL BE ALLOWED.
- ⑦ SLOPES SHALL BE BENCHED ACCORDING TO THIS DETAIL WHEN THE SLOPE IS STEEPER THAN 4:1 AND THE HEIGHT IS GREATER THAN 5' (1.5 m).

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

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 STATE OF ILLINOIS - PROFESSIONAL DESIGN FIRM  
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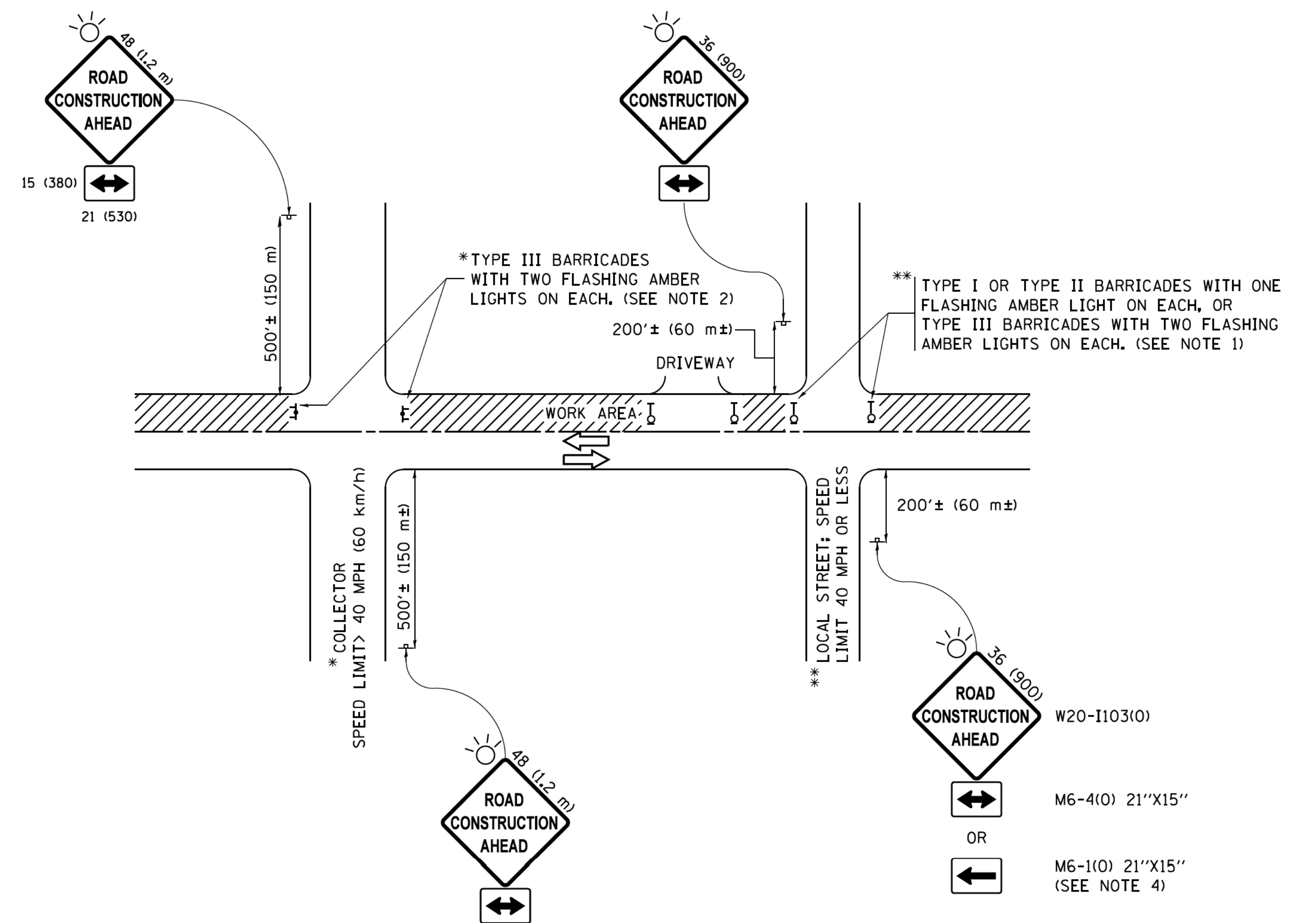
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	PLOT DATE = 1/4/2008	DATE - 06-16-04	REVISED -

**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

<b>BENCHING DETAIL FOR EMBANKMENT WIDENING</b>			
SCALE: NONE	SHEET NO. 1 OF 1 SHEETS	STA.	TO STA.

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
0135	14-00433-00-BR	McHENRY	40	32
<b>BD-51</b>			<b>CONTRACT NO. 61E23</b>	
FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT				





**NOTES:**

1. SIDE ROAD WITH A SPEED LIMIT OF 40 MPH (60 km/h) OR LESS AS SHOWN ON THE DRAWING AND AS DIRECTED BY THE ENGINEER:
  - a) ONE "ROAD CONSTRUCTION AHEAD" SIGN 36 x 36 (900x900) WITH A FLASHER MOUNTED ON IT APPROXIMATELY 200' (60 m) IN ADVANCE OF THE MAIN ROUTE.
  - b) THE CLOSED PORTION OF THE MAIN ROUTE SHALL BE PROTECTED BY BLOCKING WITH TYPE I, TYPE II OR TYPE III BARRICADES, 1/3 OF THE CROSS SECTION OF THE CLOSED PORTION.
2. SIDE ROAD WITH A SPEED LIMIT GREATER THAN 40 MPH (60 km/h) AS SHOWN ON THE DRAWING AND AS DIRECTED BY THE ENGINEER:
  - a) ONE "ROAD CONSTRUCTION AHEAD" SIGN 48 x 48 (1.2 m x 1.2 m) WITH A FLASHER MOUNTED ON IT APPROXIMATELY 500' (150 m) IN ADVANCE OF THE MAIN ROUTE.
  - b) THE CLOSED PORTION OF THE MAIN ROUTE SHALL BE PROTECTED BY BLOCKING WITH TYPE III BARRICADES, 1/2 OF THE CROSS SECTION OF THE CLOSED PORTION.
3. CONES MAY BE SUBSTITUTED FOR BARRICADES OR DRUMS AT HALF THE SPACING DURING DAY OPERATIONS. CONES SHALL BE A MINIMUM OF 28 (710) IN HEIGHT.
4. WHEN THE SIDE ROAD LIES BETWEEN THE BEGINNING OF THE MAINLINE SIGNING AND THE WORK ZONE, A SINGLE HEADED ARROW (M6-1) SHALL BE USED IN LIEU OF THE DOUBLE HEADED ARROW (M6-4).
5. WHEN WORK IS BEING PERFORMED ON A SIDE ROAD OR DRIVEWAY, FOLLOW THE APPLICABLE STANDARD(S). THE DIRECTIONAL ARROW (M6-1 OR M6-4) SHALL BE COVERED OR REMOVED WHEN NO LONGER CONSISTENT WITH THE TRAFFIC CONTROL SET-UP.
6. ADVANCE WARNING SIGNS ARE TO BE OMITTED ON DRIVEWAYS UNLESS OTHERWISE SPECIFIED IN THE PLANS OR BY THE ENGINEER.
7. THE TRAFFIC CONTROL AND PROTECTION FOR SIDE ROADS, INTERSECTIONS, AND DRIVEWAYS SHALL BE INCLUDED IN THE COST OF SPECIFIED TRAFFIC CONTROL STANDARDS OR ITEMS.

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

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 STATE OF ILLINOIS - PROFESSIONAL DESIGN FIRM  
 PROJECT NO. - 14-00433-00-BR  
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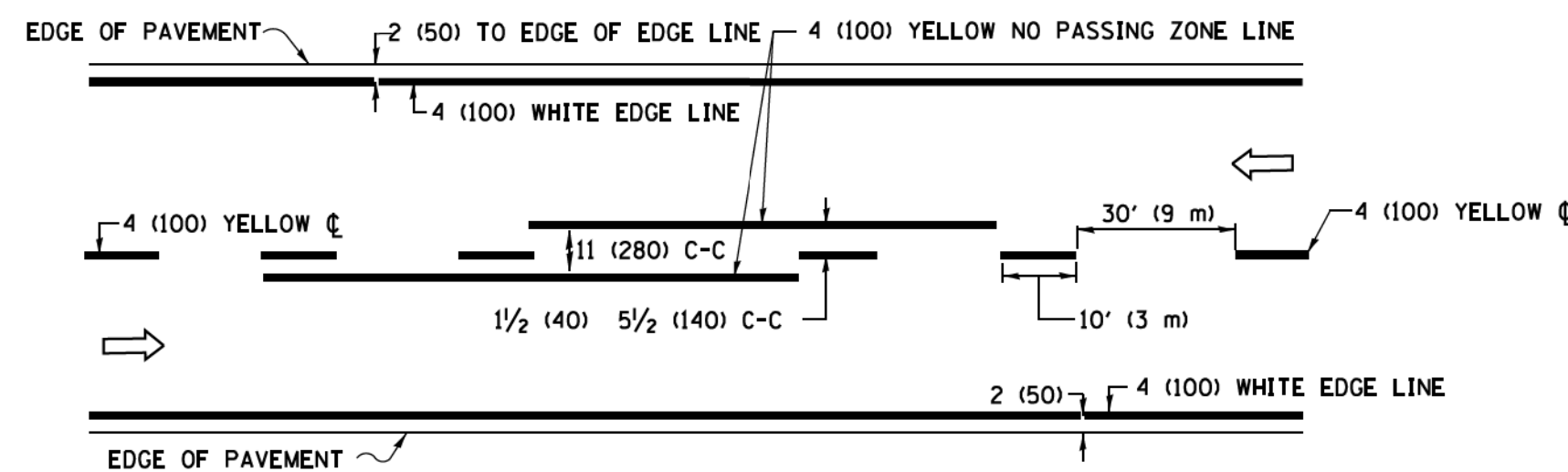
**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

**TRAFFIC CONTROL AND PROTECTION FOR  
SIDE ROADS, INTERSECTIONS, AND DRIVEWAYS**

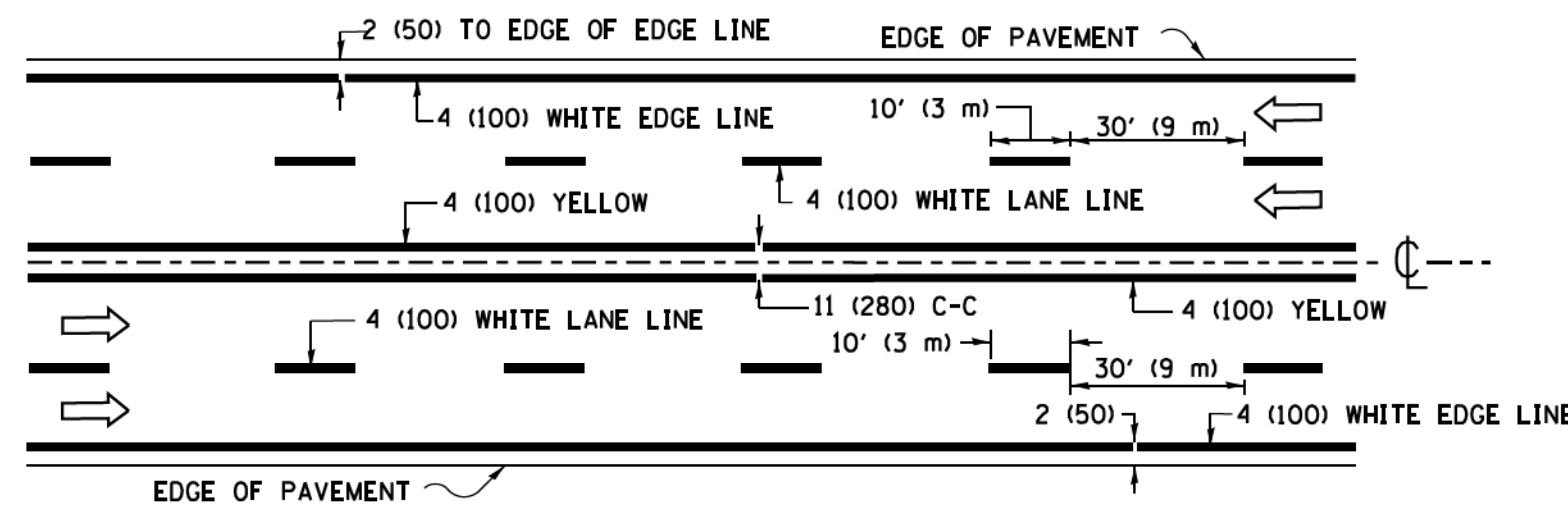
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F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
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<b>TC-10</b>		CONTRACT NO. 61E23		
ILLINOIS FED. AID PROJECT				

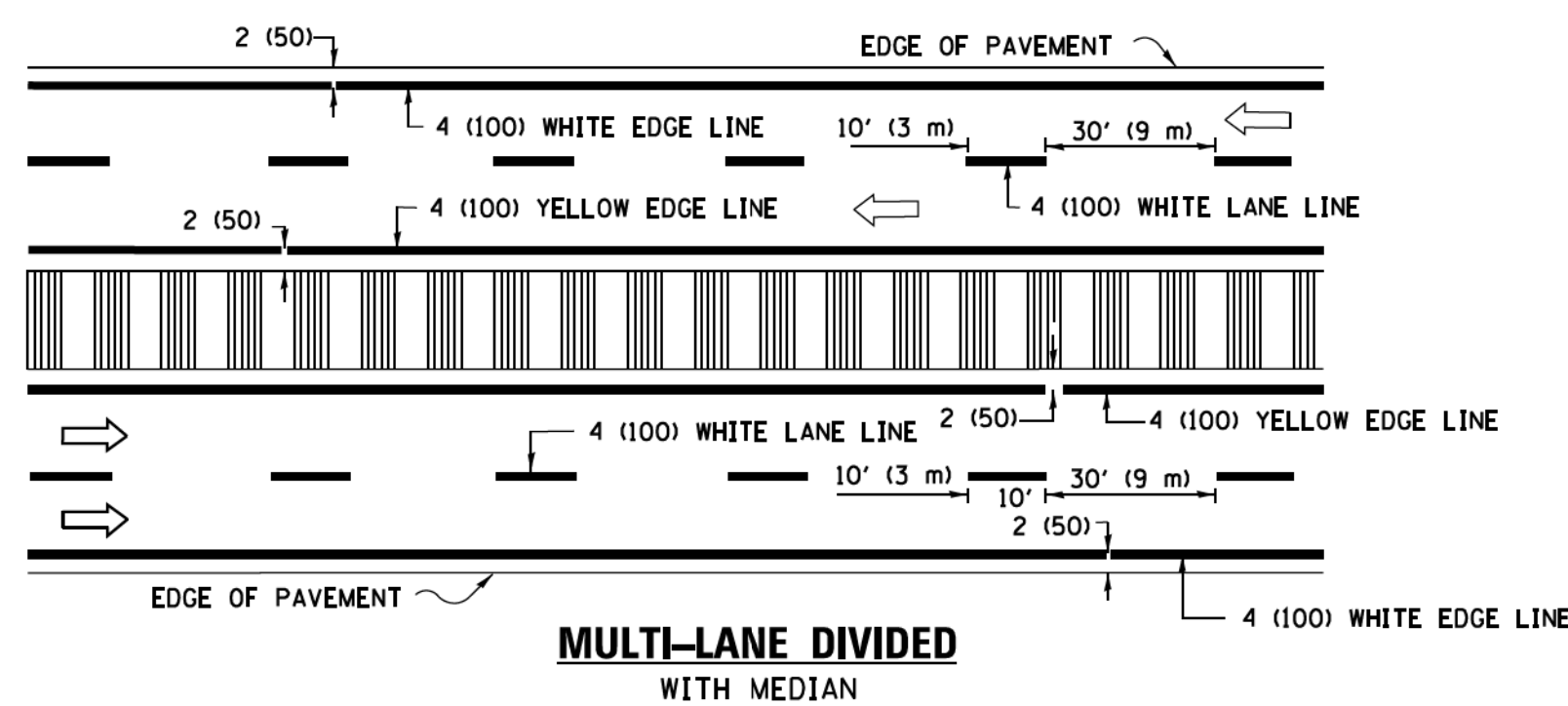




**2-LANE ROADWAY**

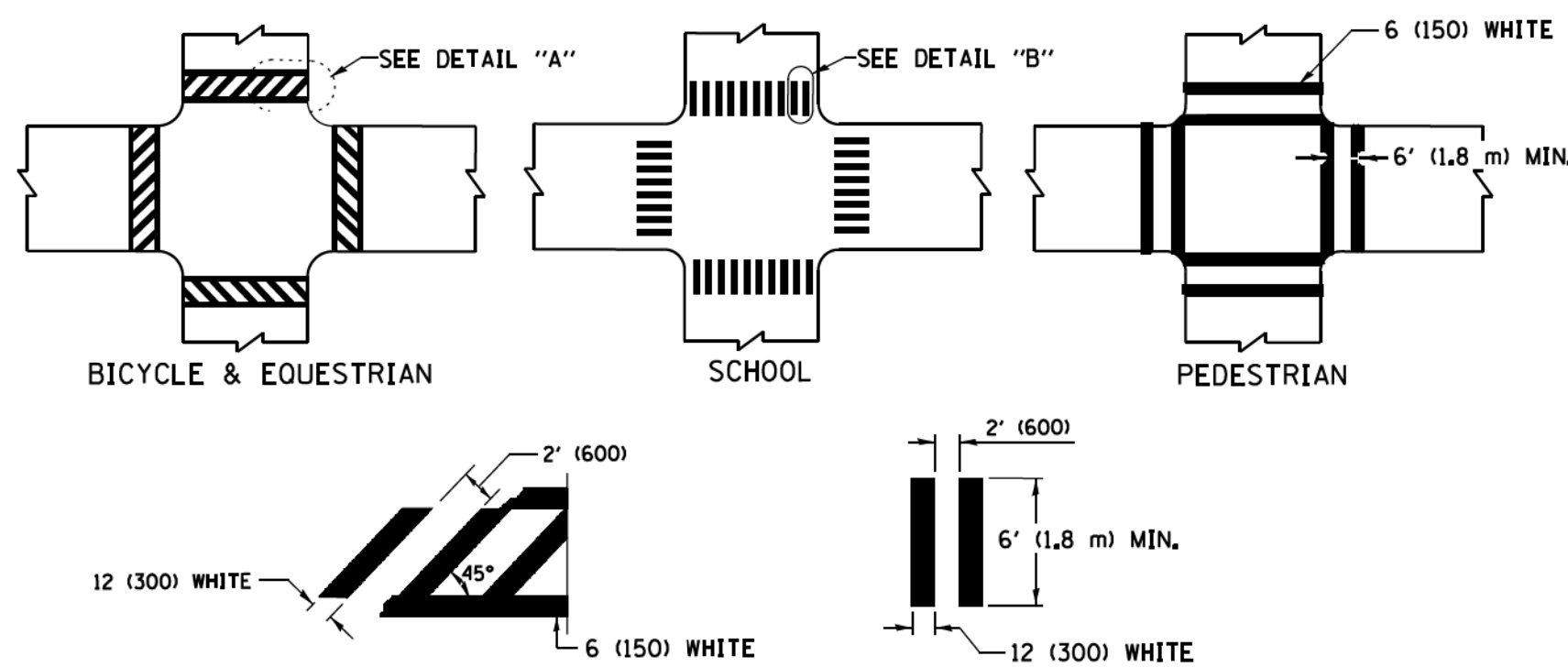


**MULTI-LANE UNDIVIDED**



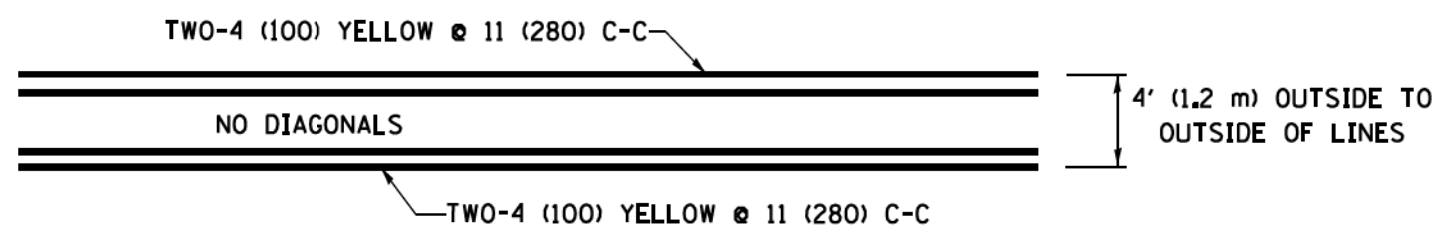
**MULTI-LANE DIVIDED WITH MEDIAN**

**TYPICAL LANE AND EDGE LINE MARKING**

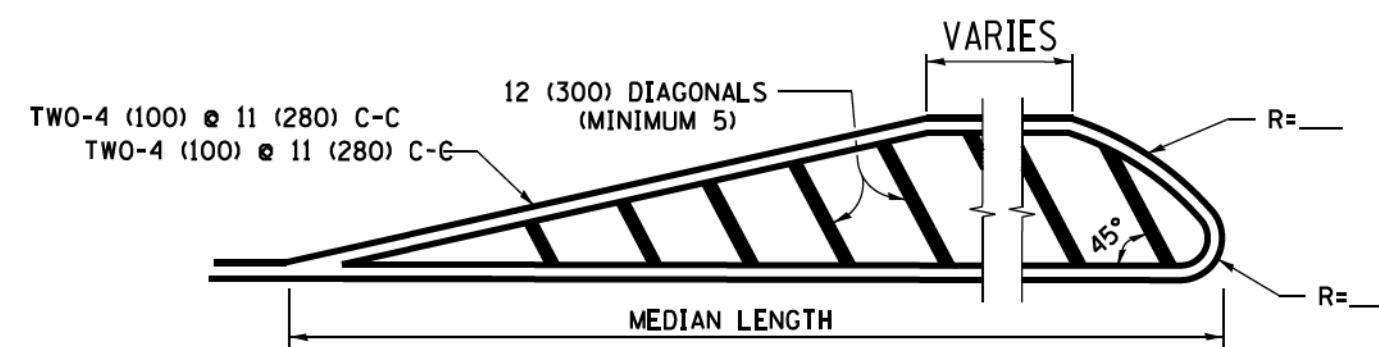


**TYPICAL CROSSWALK MARKING**

\* MARKINGS SHALL BE INSTALLED PARALLEL TO THE CENTERLINE OF THE ROAD WHICH IT CROSSES

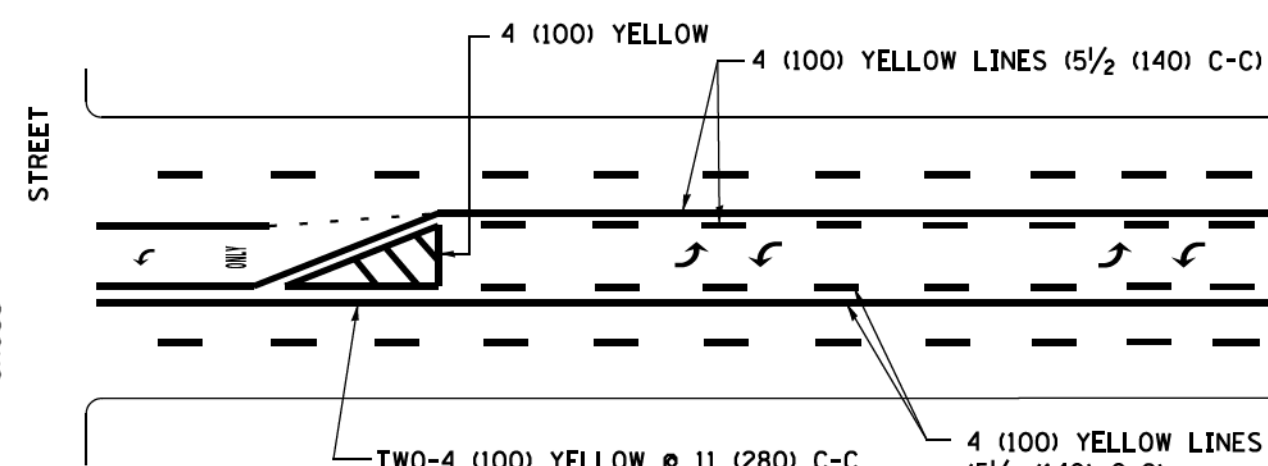


**4' (1.2 m) WIDE MEDIANS ONLY**

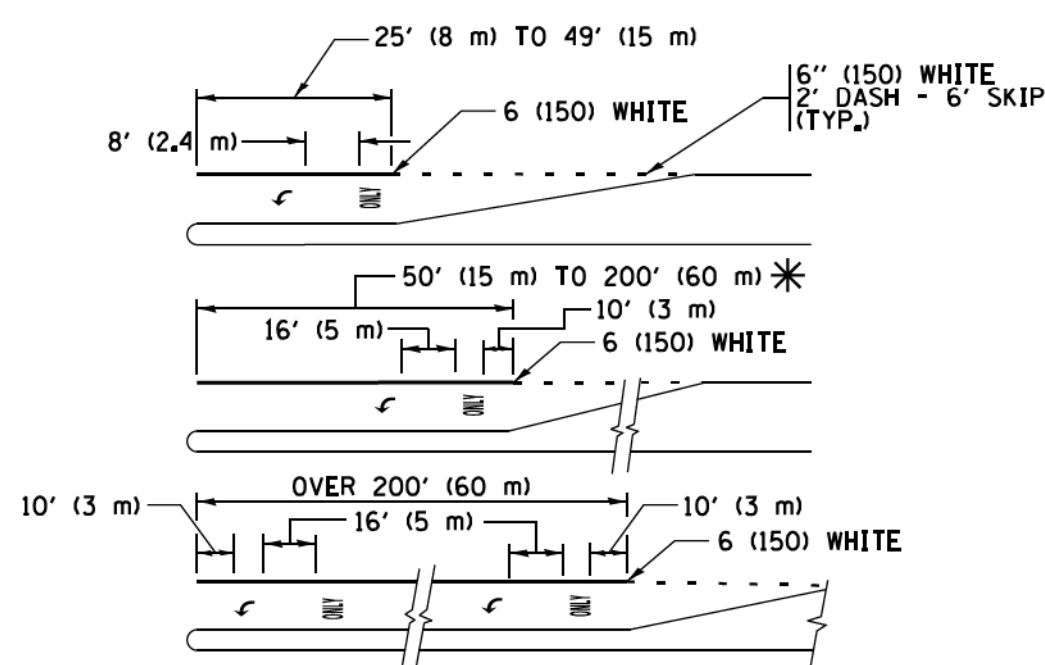


**MEDIANS OVER 4' (1.2 m) WIDE**

DIAGONAL LINE SPACING: 50' (15 m) C-C (LESS THAN 30MPH (50 km/h))  
75' (25 m) C-C 30MPH (50 km/h) TO 45MPH (70 km/h)  
150' (45 m) C-C (MORE THAN 45MPH (70 km/h))

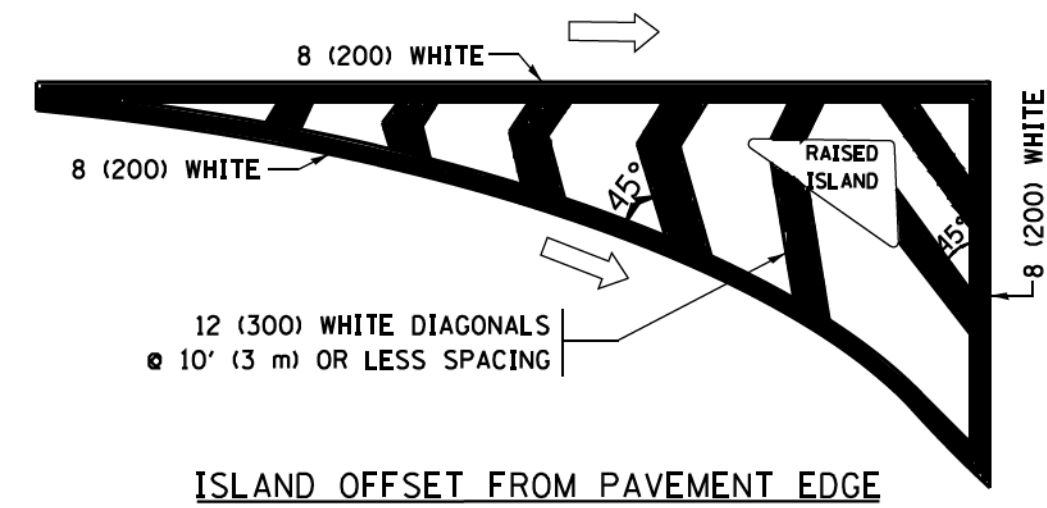


**MEDIAN WITH TWO-WAY LEFT TURN LANE TYPICAL PAINTED MEDIAN MARKING**

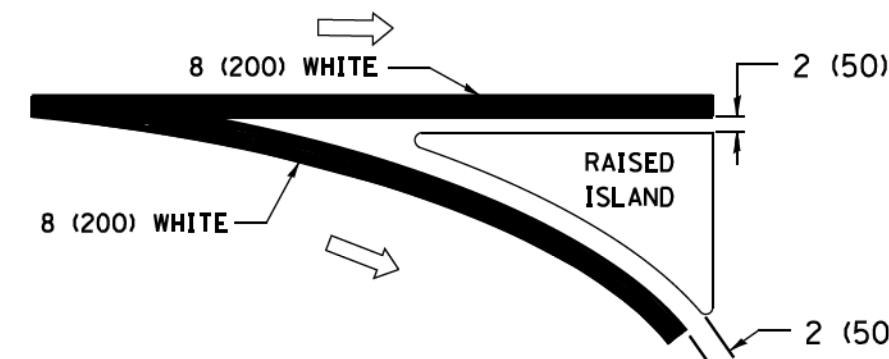


FULL SIZE LETTERS 8' (2.4 m) AND ARROWS SHALL BE USED.  
AREA = 15.6 SQ. FT. (1.5 m<sup>2</sup>) ONLY AREA = 20.8 SQ. FT. (1.9 m<sup>2</sup>)  
\* TURN LANES IN EXCESS OF 400' (120 m) IN LENGTH MAY HAVE AN ADDITIONAL SET OF ARROW - "ONLY" INSTALLED MIDWAY BETWEEN THE OTHER TWO SETS OF ARROW - "ONLY".

**TYPICAL LEFT (OR RIGHT) TURN LANE TYPICAL TURN LANE MARKING**

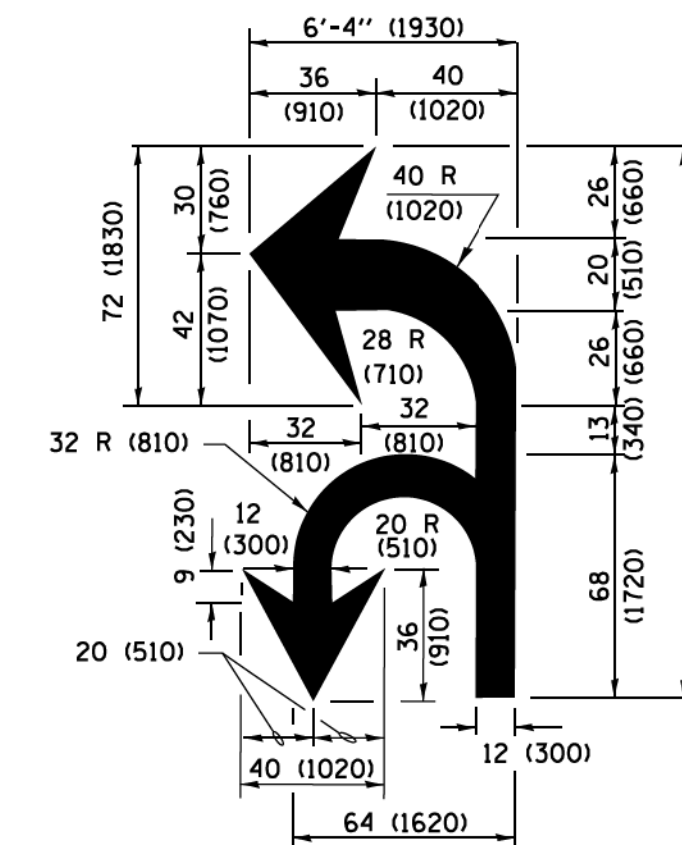


**ISLAND OFFSET FROM PAVEMENT EDGE**

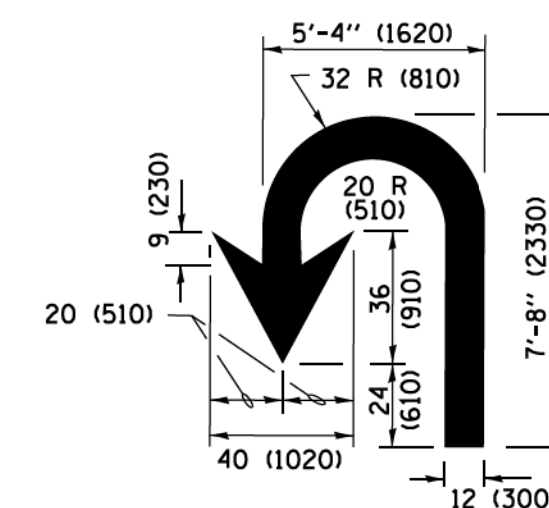


**ISLAND AT PAVEMENT EDGE**

**TYPICAL ISLAND MARKING**



**COMBINATION LEFT AND U-TURN**



**U-TURN**

**LANE REDUCTION TRANSITION**

\* LANE REDUCTION ARROWS REQUIRED AT SPEEDS OF 45 MPH OR GREATER OR WHEN SPECIFIED IN PLANS.

D(FT)	SPEED LIMIT
345	30
425	35
500	40
580	45
665	50
750	55

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 FOR BOTH DIRECTIONS	4 (100) 2 @ 4 (100)	SOLID SOLID	YELLOW YELLOW	5 1/2 (140) C-C FROM SKIP-DASH CENTERLINE 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 MEDIANS IN YELLOW
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 8' (2.4m) LEFT ARROW	SKIP-DASH AND SOLID IN PAIRS	YELLOW WHITE	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 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° NO DIAGONALS USED FOR 4' (1.2 m) WIDE MEDIANS	SOLID	YELLOW; TWO WAY TRAFFIC WHITE; ONE WAY TRAFFIC	11 (280) C-C FOR THE DOUBLE LINE SEE TYPICAL PAINTED MEDIAN MARKING.
CORE 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 LINE; "RR" IS 6' (1.8 m) LETTERS; 16 (400) LINE FOR "X"	SOLID	WHITE	SEE STATE STANDARD 780001 AREA OF "RR" IS 6' (1.8 m) LETTERS; 16 (400) LINE FOR "X"
SHOULDER DIAGONALS (REQUIRED FOR SHOULDERS ≥ 8')	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))
U TURN ARROW	SEE DETAIL	SOLID	WHITE	16.3 SF
2 ARROW COMBINATION LEFT AND U TURN	SEE DETAIL	SOLID	WHITE	30.4 SF

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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Default		CHECKED -	REVISED - C. JUCIUS 12-21-15
	PLOT DATE = 6/23/2017	DATE - 03-19-90	REVISED - C. JUCIUS 04-12-16

**STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION**

**DISTRICT ONE TYPICAL PAVEMENT MARKINGS**

SCALE: NONE SHEET 1 OF 1 SHEETS STA. TO STA.

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
0135	14-00433-00-BR	MCHENRY	40	35
TC-13		CONTRACT NO. 61E23		
ILLINOIS FED. AID PROJECT				

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 PROJECT NO. - 14-00433-00-BR  
 DATE - 9/14/2017  
 I:\Mokemo\MCDM\4027-00k Grove Rd Bridge\CADD\Sheets\PH2\4027SHT\_D\DETAILS - TC.dgn

**ROUTE MARKERS**

FOR U.S. ROUTES  
M1-40-2424

FOR ILLINOIS ROUTES  
M1-50-2424

R.R. UNMARKED ROUTES  
SPECIAL 24" x 18" VARIABLE  
4" BLACK LETTERS ON WHITE  
REFLECTIVE BACKGROUND

**ARROWS SIGNS**

M5-1L-2115

M5-1R-2115

M6-1-2115

M6-3-2115

**CARDINAL DIRECTION & DETOUR SIGNS**

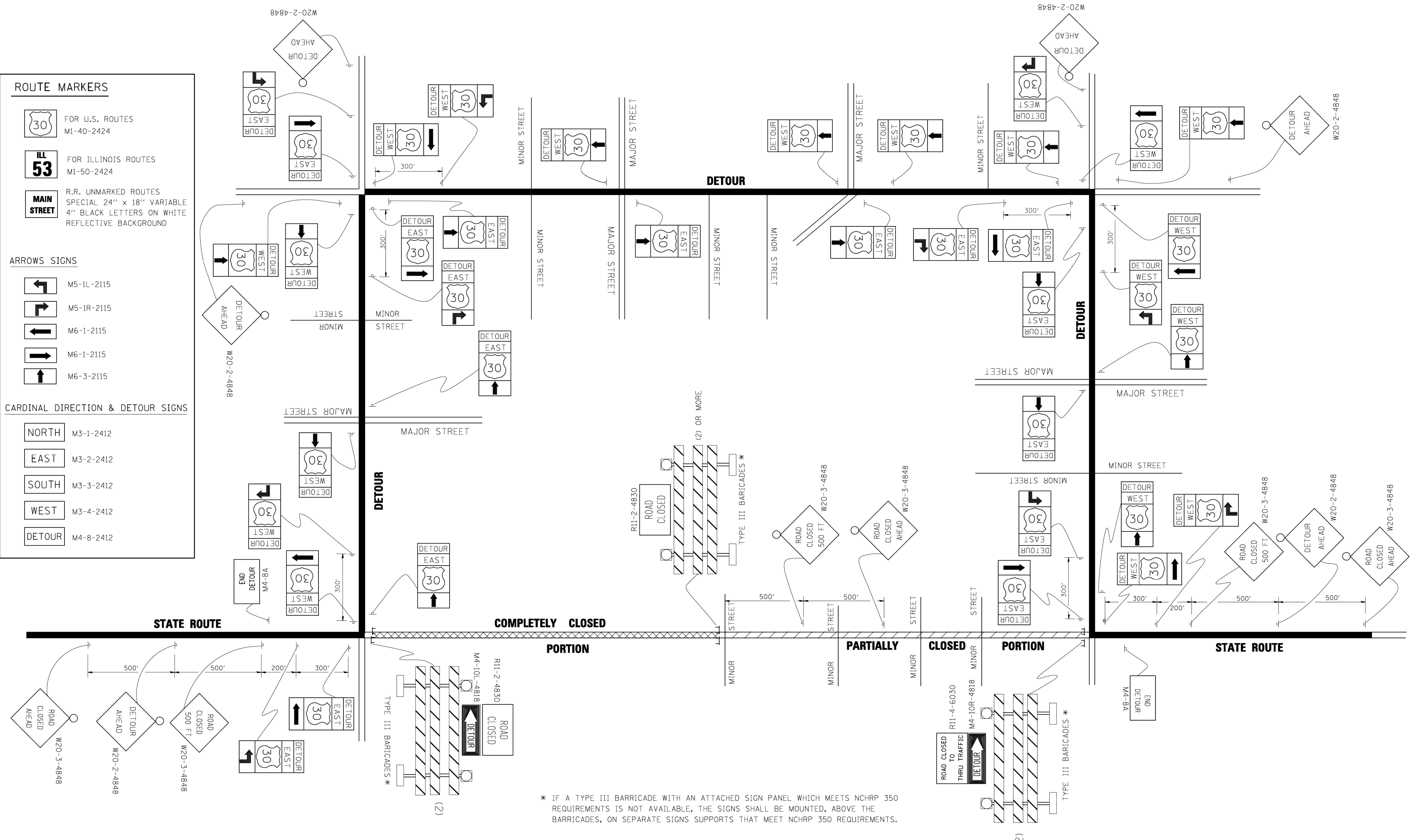
NORTH M3-1-2412

EAST M3-2-2412

SOUTH M3-3-2412

WEST M3-4-2412

DETOUR M4-8-2412



FILE NAME =	USER NAME = drivakosgn	DESIGNED -	REVISED - 10-18-02
ci:\pwwork\p\1001\DRIVAKOSGN\10108315\1421.dgn		DRAWN -	REVISED - R. BORO 09-14-09
		PLOT SCALE = 49.9999 / IN.	REVISED -
		CHECKED -	REVISED -
		DATE -	REVISED -

**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

<b>DETOUR SIGNING</b>		F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
FOR CLOSING STATE HIGHWAYS		0135	14-00433-00-BR	MCHENRY	40	36
SCALE: NONE		SHEET NO. 1 OF 1 SHEETS		CONTRACT NO. 61E23		
STATIONING: STA. TO STA.		FED. ROAD DIST. NO. 1 ILLINOIS		FED. AID PROJECT		

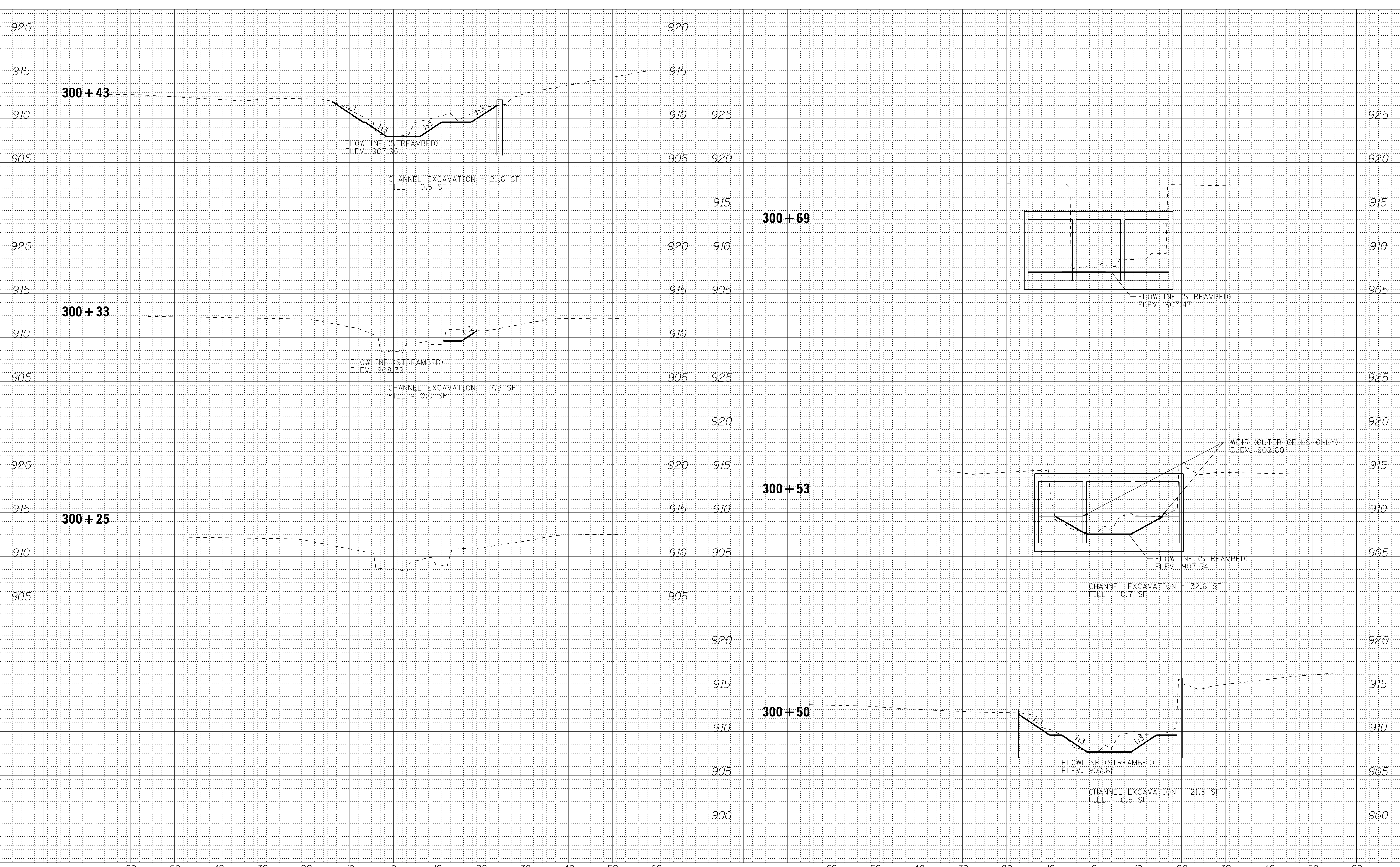








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DESIGNED - JDM	REVISED -
DRAWN - CJC	REVISED -
CHECKED - DTH	REVISED -
DATE - 09-29-17	FILE - 140217SHT-XS_Creek.dgn

**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

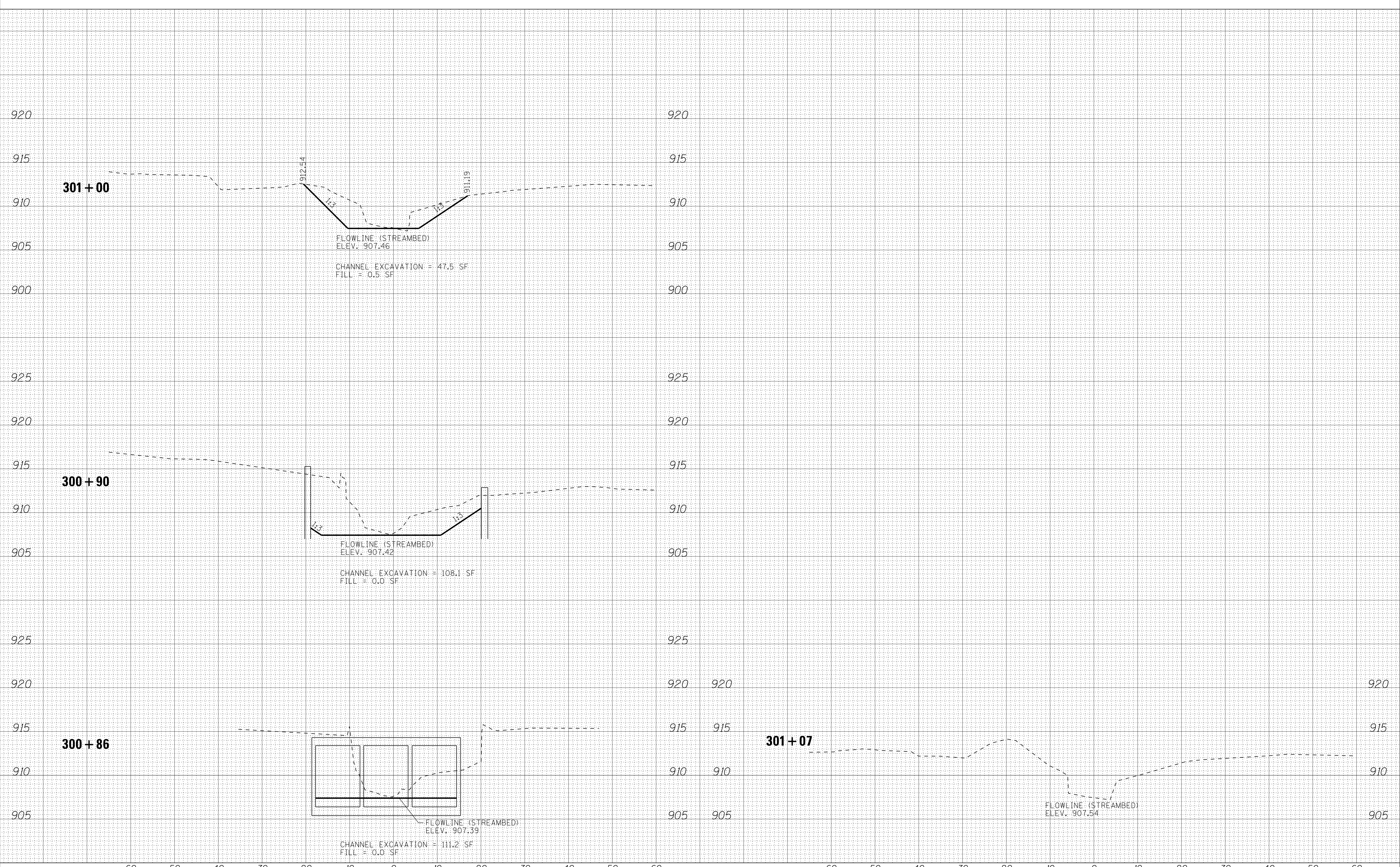
**CROSS SECTIONS - DRAINAGE DITCH**

SCALE: H: 1"=10' V: 1"=5'  
 STA. 300+25 TO STA. 300+69

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
0135	14-00433-00-BR	MCHENRY	40	39
FED. ROAD DIST. NO. ILLINOIS FED. AID PROJECT			CONTRACT NO. 61E23	



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DESIGNED - JDM	REVISED -
DRAWN - CJC	REVISED -
CHECKED - DTH	REVISED -
DATE - 09-29-17	FILE - 140217SHT-XS Creek.dgn

**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

**CROSS SECTIONS - DRAINAGE DITCH**

SCALE: H: 1"=10' V: 1"=5'      STA. 300+86      TO STA. 301+07

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
0135	14-00433-00-BR	MCHENRY	40	40
FED. ROAD DIST. NO. ILLINOIS FED. AID PROJECT			CONTRACT NO. 61E23	