

MUN	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
005	13-00009-00-BR	MCHENRY	38	1
		ILLINOIS	CONTRACT NO. 61E04	

FOR INDEX OF SHEETS, SEE SHEET NO. 2

FOR INDEX OF HIGHWAY STANDARDS, SEE SHEET NO. 2

# DEPARTMENT OF TRANSPORTATION PLANS FOR PROPOSED FEDERAL AID HIGHWAY

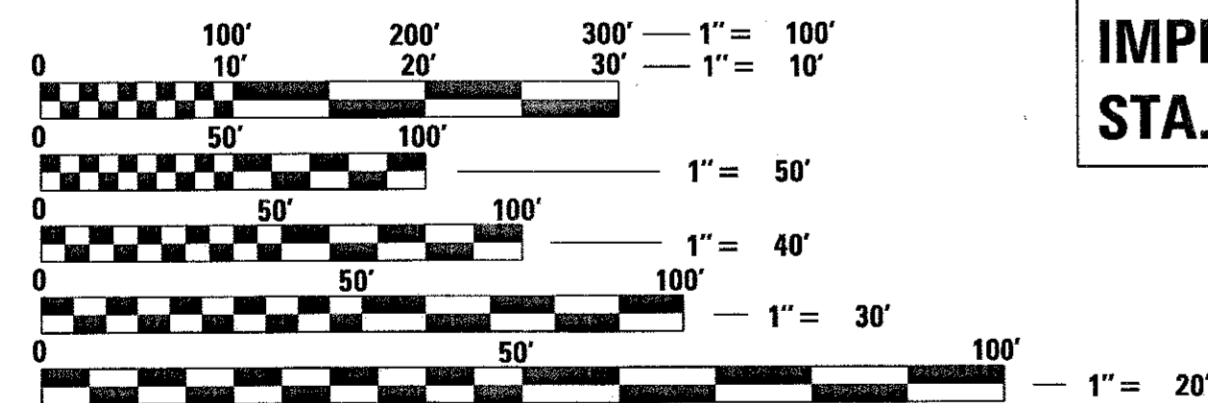
MUN 0005 (JUSTEN ROAD) OVER FOX RIVER TRIBUTARY  
STRUCTURE REPLACEMENT  
SECTION: 13-00009-00-BR  
PROJECT: HAJZ(351)  
VILLAGE OF PRAIRIE GROVE  
MCHENRY COUNTY  
JOB NO.: C-91-167-14

**TRAFFIC DATA**

JUSTEN ROAD  
POSTED SPEED LIMIT - 35 MPH  
DESIGN SPEED LIMIT - 35 MPH  
2014 ADT = 207 VPD  
2040 ADT = 450 VPD

**DESIGN DESIGNATION**

JUSTEN ROAD: LOCAL ROAD



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. A2262403



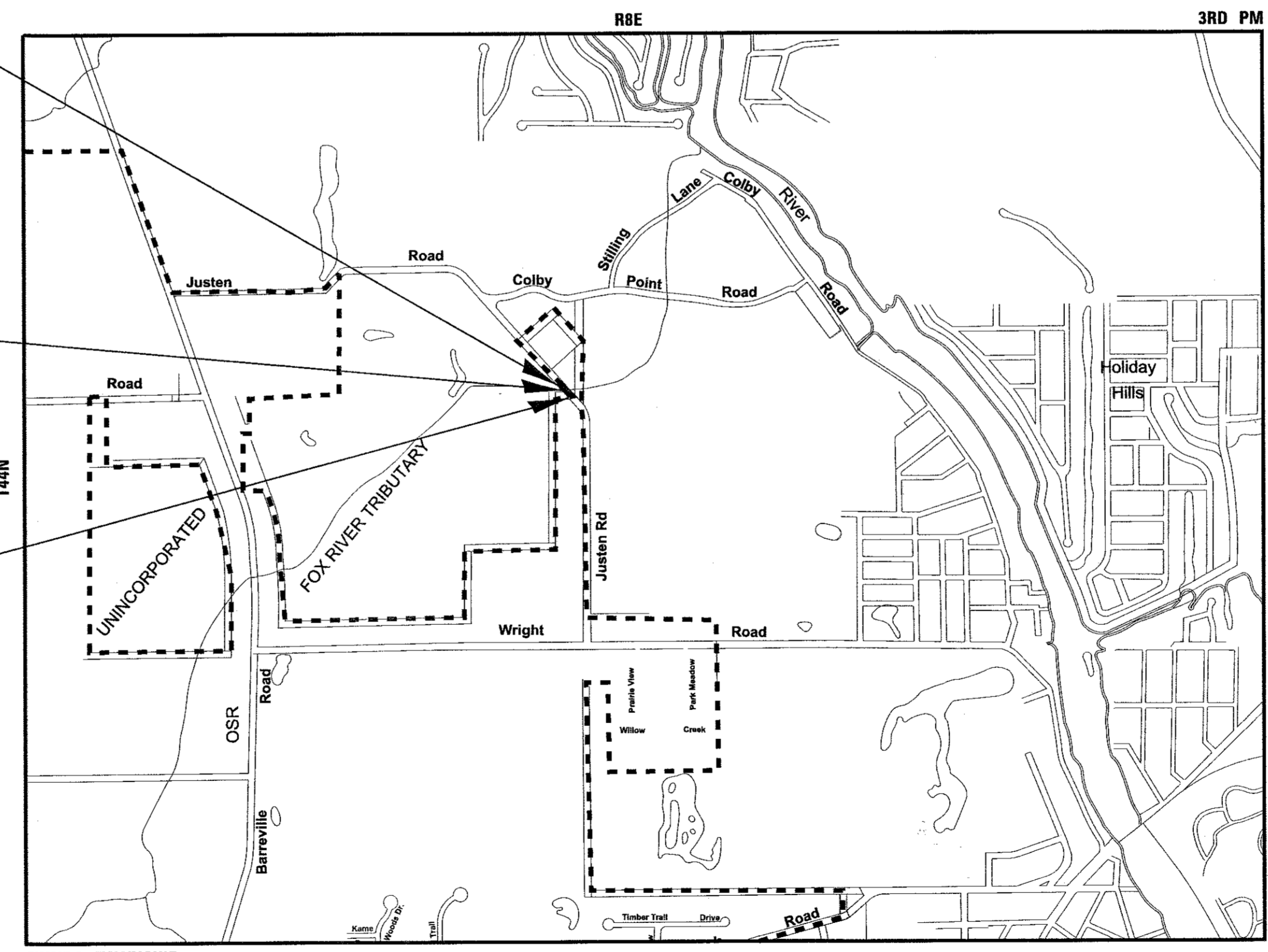
CONTACT JULIE AT 811 OR 800-892-0123 WITH THE FOLLOWING:  
COUNTY = MCHENRY  
CITY-TWNHP. = PRAIRIE GROVE - NUNDA  
SEC. & 1/4 SEC. NO. = 13 SE 1/4  
48 HOURS (2 working days) BEFORE YOU DIG

CONTRACT NO. 61E04

IMPROVEMENT BEGINS  
STA. 105 + 22

STRUCTURE REPLACEMENT  
STA 106 + 76.19  
EXISTING SN 056-3108  
PROPOSED SN 056-6009

IMPROVEMENT ENDS  
STA. 108 + 78



LOCATION MAP  
GROSS LENGTH = 356 FT. = 0.067 MILE  
NET LENGTH = 356 FT. = 0.067 MILE

62-056222  
LICENSED  
PROFESSIONAL  
ENGINEER  
OF  
STATE OF ILLINOIS  
8/3/17  
PROJECT MANAGER  
"LICENSE EXPIRES 11-30-17"

081-006358  
LICENSED  
STRUCTURAL  
ENGINEER  
OF  
STATE OF ILLINOIS  
8/3/17  
STRUCTURAL ENGINEER  
"LICENSE EXPIRES 11-30-18"

STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION

APPROVED *[Signature]*  
Superintendent 8/4/17  
VILLAGE OF PRAIRIE GROVE

PASSED August 31, 2017  
*[Signature]*  
DISTRICT 1 ENGINEER OF LOCAL ROADS AND STREETS

RELEASING FOR BID  
BASED ON  
LIMITED  
REVIEW SEPTEMBER 1, 2017  
*[Signature]*  
REGIONAL ENGINEER

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 PROGRAM AND OFFICE ENGINEER: CHARLES F. RIDDLE, P.E. 847-705-4406 SCHAUMBURG, IL

**COMMITMENTS**

- EMERGENCY, SCHOOL AND POSTAL SERVICES WILL BE NOTIFIED WHEN THE BRIDGE IS CLOSED FOR CONSTRUCTION.
  - NUNDA FIRE PROTECTION DISTRICT  
FIRE CHIEF WILLIAM HOOVER  
1-815-455-1559
  - PRAIRIE GROVE POLICE DEPARTMENT  
RON LYONS, DIRECTOR OF PUBLIC SAFETY  
1-815-455-3918
  - PRAIRIE GROVE CONSOLIDATED SCHOOL DISTRICT 46  
PHILIP BENDER, SUPERINTENDENT  
1-815-459-3023
  - COMMUNITY HIGH SCHOOL DISTRICT 155  
KATHY ANES, DIRECTOR OF TRANSPORTATION  
1-815-455-8500
  - MCHENRY COUNTY SHERIFF  
SHERIFF KEITH NYGREN  
1-815-338-2144
  - US POST OFFICE  
THOMAS MERLE, MCHENRY POSTMASTER  
1-815-459-8084
- IMPLEMENT BEST MANAGEMENT PRACTICES (BMPS) FOR SEDIMENTATION AND EROSION CONTROL TO MINIMIZE POTENTIAL IMPACTS TO THE INAI AND LISTED SPECIES IN THE VICINITY.
- IDNR REQUESTS THE BOX CULVERT BE INSTALLED AT GRADE OR SLIGHTLY RECESSED (TO AVOID PERCHING) INTO THE STREAM BED TO MAXIMIZE ACCESS THROUGH THE CULVERT BY AQUATIC SPECIES, ESPECIALLY DURING LOW WATER CONDITIONS.
- TO CONSERVE THE NORTHERN LONG-EARED BAT SPECIES, TREES WILL NOT BE CLEARED FROM APRIL 1 THROUGH SEPTEMBER 30. IN ADDITION TO THE DATE RESTRICTION ON TREE CLEARING, IMPACTS TO TREES SHALL BE REPLACED IN ACCORDANCE WITH IDOT DEPARTMENTAL POLICY D&E-18 PRESERVATION AND REPLACEMENT OF TREES.
- AN INSPECTION OF THE BRIDGE WILL BE PERFORMED NO MORE THAN 7 DAYS PRIOR TO THE START OF CONSTRUCTION ACTIVITY TO VERIFY BATS HAVE NOT STARTED TO USE THE AREA OF THE BRIDGE PROPOSED FOR WORK AFTER THE ORIGINAL INSPECTION.

**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
- 406201-01 MAILBOX TURNOUT
- 482001-02 HMA SHOULDER ADJACENT TO FLEXIBLE PAVEMENT
- 482011-03 HMA SHLD. STRIPS/SHLDS. WITH RESURFACING OR WIDENING AND NAME PLATE FOR BRIDGES
- 515001-03
- 601001-05 PIPE UNDERDRAINS
- 630001-11 STEEL PLATE BEAM GUARDRAIL
- 630116 BACK SIDE PROTECTION OF GUARDRAIL
- 630301-07 SHOULDER WIDENING FOR TYPE 1 (SPECIAL) GUARDRAIL TERMINALS
- 631011-10 TRAFFIC BARRIER TERMINAL, TYPE 2
- 631032-09 TRAFFIC BARRIER TERMINAL, TYPE 6A
- 701001-02 OFF-RD OPERATIONS, 2L, 2W, MORE THAN 15' (4.5 m) AWAY
- 701006-05 OFF-RD OPERATIONS, 2L, 2W, 15' (4.5 m) TO 24" (600 mm) FROM PAVEMENT EDGE
- 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
- 701501-06 URBAN LANE CLOSURE, 2L, 2W, UNDIVIDED
- 701901-06 TRAFFIC CONTROL DEVICES
- 720001-01 SIGN PANEL MOUNTING DETAILS
- 720006-04 SIGN PANEL ERECTION DETAILS
- 720011-01 METAL POSTS FOR SIGNS, MARKERS & DELINEATORS
- 725001-01 OBJECT AND TERMINAL MARKERS
- 728001-01 TELESCOPING STEEL SIGN SUPPORT
- 729001-01 APPLICATIONS OF TYPES A & B METAL POSTS (FOR SIGNS & MARKERS)
- 780001-05 TYPICAL PAVEMENT MARKINGS
- 782006 GUARDRAIL AND BARRIER WALL REFLECTOR MOUNTING DETAILS
- B.L.R. 21-9 TYPICAL APPLICATION OF TRAFFIC CONTROL DEVICES FOR CONSTRUCTION ON RURAL LOCAL HIGHWAYS
- B.L.R. 22-7 TYPICAL APPLICATION OF TRAFFIC CONTROL DEVICES FOR CONSTRUCTION ON RURAL LOCAL HIGHWAYS (TWO-LANE TWO WAY RURAL TRAFFIC) (ROAD CLOSED TO THRU TRAFFIC)
- B.L.R. 24-2 MAILBOX TURNOUT FOR LOCAL ROADS

**INDEX OF SHEETS**

1	COVER SHEET
2	INDEX OF SHEETS, COMMITMENTS, HIGHWAY STANDARDS AND DISTRICT ONE DETAILS
3	GENERAL NOTES AND SUGGESTED MAINTENANCE OF TRAFFIC NOTES
4 - 6	SUMMARY OF QUANTITIES
7 - 8	TYPICAL SECTIONS
9	EARTHWORK SCHEDULE
10	SCHEDULE OF QUANTITIES
11	ALIGNMENT, TIES AND BENCHMARKS
12	EXISTING CONDITIONS AND REMOVAL PLAN
13	PLAN AND PROFILE
14	SUGGESTED MAINTENANCE OF TRAFFIC NOTES
15	SUGGESTED MAINTENANCE OF TRAFFIC DETOUR
16	EROSION CONTROL PLAN
17	DRAINAGE AND UTILITY PLAN
18 - 19	PLAT OF HIGHWAYS
20	GRADING PLAN
21	PAVEMENT MARKING, SIGNING AND LANDSCAPING PLAN
22	GENERAL PLAN STRUCTURE NO. 056-6009
23	CULVERT DETAILS - I STRUCTURE NO. 056-6009
24	CULVERT DETAILS - II STRUCTURE NO. 056-6009
25	CULVERT DETAILS - WINGWALLS STRUCTURE NO. 056-6009
26	STEEL RAILING, TYPE 2399 STRUCTURE NO. 056-6009
27	SOIL BORINGS B-1 AND B-2 STRUCTURE NO. 056-6009
28 - 33	DISTRICT 1 DETAILS
34 - 36	CROSS SECTIONS - JUSTEN ROAD
37 - 38	CROSS SECTIONS - CREEK

**DISTRICT ONE STANDARD DETAILS**

- BD-22 DISTRICT 1 DETAIL - PAVEMENT PATCHING FOR HMA SURFACED PAVEMENT
- BD-32 DISTRICT 1 DETAIL - BUTT JOINT AND HMA TAPER DETAILS
- BD-34 DISTRICT 1 DETAIL - DETAILS FOR DEPRESSED CURB & GUTTER AND SHOULDER TREATMENT AT TBT TY 1 SPI
- TC-10 DISTRICT 1 DETAIL - TRAFFIC CONTROL AND PROTECTION FOR SIDE ROADS, INTERSECTIONS, AND DRIVEWAYS
- TC-13 DISTRICT 1 DETAIL - DISTRICT ONE TYPICAL PAVEMENT MARKINGS
- TC-21 DISTRICT 1 DETAIL - DETOUR SIGNING FOR CLOSING STATE HIGHWAYS

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DRAWN - CJC	REVISED -
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DATE - 8-4-17	FILE - 130921SHT_GenNotes.dgn

STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION

INDEX TO SHEETS, COMMITMENTS,  
HIGHWAY STANDARDS AND DISTRICT ONE DETAILS

SCALE: NONE

STA. TO STA.

MUN	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
0005	13-00009-00-BR	MCHENRY	38	2
CONTRACT NO. 61E04				
FED. ROAD DIST. NO. ILLINOIS FED. AID PROJECT				



**GENERAL NOTES**

1. 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", THE "MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES FOR STREETS AND HIGHWAYS", THE "MANUAL OF TEST PROCEDURES FOR MATERIALS" AND THE "STANDARD SPECIFICATIONS FOR WATER AND SEWER MAIN CONSTRUCTION IN ILLINOIS".
2. THE LOCATIONS OF PUBLIC OR PRIVATE UTILITIES SHOWN ON THE PLANS REPRESENTS ONLY THE OPINION OF THE VILLAGE AND IS ONLY INCLUDED FOR THE CONVENIENCE OF THE BIDDER AND THE ACCURACY IS NOT GUARANTEED. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE PROTECTION OF ALL UNDERGROUND OR SURFACE UTILITIES, INCLUDING SPRINKLER SYSTEMS, EVEN THOUGH THEY MAY NOT BE SHOWN ON THE PLANS. THE CONTRACTOR SHALL ALSO VERIFY THE DEPTHS OF THE EXISTING UTILITIES IF NECESSARY TO VERIFY THAT GRADE CONFLICTS WILL NOT OCCUR WITH ANY PROPOSED UTILITIES PRIOR TO CONSTRUCTION AND ORDERING ANY MATERIALS. ANY RELOCATION OR LOWERING OF UTILITIES SHALL BE COORDINATED BY THE CONTRACTOR.
3. THE CONTRACTOR SHALL NOTIFY THE VILLAGE OF PRAIRIE GROVE PUBLIC WORKS DEPARTMENT AT 1-815-455-1411 AT LEAST 48 HOURS IN ADVANCE OF BEGINNING WORK TO OBTAIN VILLAGE UTILITY LOCATIONS.
4. THE CONTRACTOR SHALL SUBMIT PARTIAL WAIVERS OF LIEN FROM ALL SUBCONTRACTORS AND SUPPLIERS WITH EACH PARTIAL PAYMENT ESTIMATE AND CONTRACTOR'S AFFIDAVIT FOR SUBCONTRACTORS AND SUPPLIERS WITH SECOND PAYMENT REQUEST FOR THE PREVIOUS PAYMENT ESTIMATES AND THEN WITH ALL SUBSEQUENT PAYMENT ESTIMATES.
5. THE CONTRACTOR MAY OBTAIN MUNICIPAL WATER IN BULK, AT NO CHARGE, AS LONG AS THERE IS NOT A "WATERING BAN" IN EFFECT. THE INDISCRIMINATE USE OF FIRE HYDRANTS IS STRICTLY PROHIBITED. WATER FOR CONSTRUCTION SHALL BE METERED OR OTHERWISE ACCOUNTED FOR AND A DAILY LOG MAINTAINED. THE CONTRACTOR SHALL PROVIDE THE WATER TRUCK AND DRIVER REQUIRED TO OBTAIN AND TRANSPORT THIS WATER. THE VILLAGE RESERVES THE RIGHT TO RESTRICT OR REFUSE THE USE OF VILLAGE WATER IF DEEMED NECESSARY.
6. ACCESS TO PRIVATE DRIVEWAYS SHALL BE PROVIDED AT ALL TIMES EXCEPT DURING ACTUAL CONSTRUCTION ADJACENT THERE TO. TEMPORARY RAMPS SHALL BE CONSTRUCTED AS NEEDED TO PROVIDE SUCH ACCESS, UTILIZING CRUSHED STONE OR CRUSHED GRAVEL AS TEMPORARY ACCESS.
7. IT WILL BE THE CONTRACTOR'S RESPONSIBILITY TO NOTIFY THE ENGINEER, RESIDENTS AND THE VILLAGE 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.
8. THE CONTRACTOR SHALL CONTACT THE LOCAL AGENCY MATERIAL INSPECTOR AT LEAST 48 HOURS PRIOR TO ANY CONCRETE OR HOT-MIX ASPHALT MATERIAL DELIVERIES.
9. IN AREAS WHERE THE EXISTING DRIVEWAY IS TO BE REMOVED AND REPLACED, THE REMOVAL AND DISPOSAL OF ANY ADDITIONAL MATERIAL REQUIRED TO ESTABLISH THE PROPOSED DRIVEWAY SUBGRADE ELEVATION SHALL BE INCLUDED IN THE WORK.
10. ALL EXISTING POSTS, RAILROAD TIES, AND DECORATIVE TIMBER AND ROCKS IN CONFLICT WITH THE PROPOSED IMPROVEMENTS SHALL BE REMOVED AND RELOCATED AS DETERMINED BY THE ENGINEER AT THE TIME OF CONSTRUCTION. EVERY EFFORT SHALL BE MADE BY THE CONTRACTOR WHEN REMOVING THESE ITEMS TO PRESERVE THEM FROM HARM. ITEMS NOT RELOCATED SHALL BE PROPERLY DISPOSED OF BY THE CONTRACTOR.
11. BUTT JOINTS WILL BE INSTALLED AT THE ENDS OF ALL RESURFACING (WHERE RESURFACING MEETING EXISTING PAVEMENT), IN ACCORDANCE WITH THE "BUTT JOINT AND HMA TAPER DETAILS" SHEET INCLUDED IN THE PLANS, UNLESS OTHERWISE SPECIFIED.
12. MATERIALS RESULTING FROM THE REMOVAL OF PAVEMENT, DRIVEWAYS, HOT-MIX ASPHALT SURFACES, ETC. SHALL BE REMOVED AT THE END OF EACH DAY TO AN APPROVED SITE. IN THE JUDGMENT OF THE ENGINEER, SHOULD IT BE NECESSARY TO REMOVE SUCH MATERIALS, THE ENGINEER WILL HAVE THE MATERIAL REMOVED.

13. ANY DAMAGE TO PAVEMENT OR ANY OTHER PORTION OF THE ROADWAY NOT SPECIFICALLY TO BE REMOVED AND REPLACED SHALL BE REPAIRED OR REPLACED BY THE CONTRACTOR.
14. FRAMES, LIDS, GRATES, VALVES, FIRE HYDRANTS, ETC WHICH ARE TO BE ABANDONED OR REPLACED IN THIS PROJECT SHALL BE SALVAGED AND REMAIN PROPERTY OF THE VILLAGE OF PRAIRIE GROVE. THE CONTRACTOR SHALL COORDINATE DELIVERY WITHIN THE VILLAGE LIMITS OR PICK UP OF THESE ITEMS WITH THE ENGINEER.
15. AN IEPA FORM LPC-662 HAS BEEN PROVIDED BY THE VILLAGE AND IS INCLUDED IN THE SPECIAL PROVISIONS.
16. THE CONTRACTOR SHALL CONTACT THE IDOT TRAFFIC CONTROL SUPERVISOR AT 847-705-4470 72 HOURS IN ADVANCE OF BEGINNING WORK.
17. THE ILLINOIS DEPARTMENT OF TRANSPORTATION IS NOT THE OWNER OF RECORD FOR THIS BRIDGE. THOSE SEEKING HISTORICAL AS-BUILT OR OTHER RECORD PLANS AND DOCUMENTS MUST CONTACT THE OWNER OF RECORD TO MAKE ARRANGEMENTS FOR ACCESS TO THIS INFORMATION. CONTACT VILLAGE OF PRAIRIE GROVE PUBLIC WORKS DEPARTMENT AT 1-815-455-1411.
18. THE CONTRACTOR SHALL REPLACE ALL STREET SIGNS AND MAIL BOXES REMOVED DURING CONSTRUCTION AS NEAR AS POSSIBLE TO THEIR ORIGINAL LOCATION OR AS DETERMINED BY THE ENGINEER. THIS WORK SHALL BE IN ACCORDANCE WITH ARTICLES 107.20 AND 107.25.
19. COMED OVERHEAD TRANSITION LINES EXIST ALONG JUSTEN ROAD. THE CONTRACTOR SHALL COORDINATE ALL CONSTRUCTION ACTIVITIES WITH COMED.
20. NO STOCKPILING MATERIAL WILL BE ALLOWED IN FLOODPLAIN.
21. THE DAY'S PAVING OPERATION SHALL RESULT IN A SINGLE TRANSVERSE JOINT. COLD LONGITUDINAL JOINTS WILL NOT BE ACCEPTED.
22. THE SUBGRADE STABILITY SHALL BE VERIFIED BY PROOF ROLLING WITH A FULLY LOADED TANDEM-AXLE TRUCK.
23. AGGREGATE SUBGRADE IMPROVEMENT (CU YD) HAS BEEN PROVIDED FOR USE AT THE LOCATIONS INDICATED FOR SOILS THAT TEND TO BE UNSTABLE AND/OR UNSUITABLE. THE ACTUAL NEED FOR REMOVAL AND REPLACEMENT WILL ASI WILL BE DETERMINED IN THE FIELD AT THE TIME OF CONSTRUCTION BY THE GEOTECHNICAL ENGINEER. ALL POTENTIALLY UNSTABLE SOILS SHOULD BE TESTED WITH A STATIC OR DYNAMIC CONE PENETROMETER AND TREATED IN ACCORDANCE WITH ARTICLE 301.04 OF THE SSRBC AND IDOT SUBGRADE STABILITY MANUAL. IF UNSTABLE AND/OR UNSUITABLE SOILS ARE NOT ENCOUNTERED, THEN THE QUANTITY SHALL BE DEDUCTED AND NO ADDITIONAL COMPENSATION WILL BE DUE TO THE CONTRACTOR.
24. ANY AGGREGATE SUBGRADE IMPROVEMENT CONTAMINATED AND/OR DAMAGED BY THE CONTRACTOR'S VEHICLES AND/OR EQUIPMENTS IS TO BE REMOVED AND REPLACED AS DIRECTED BY THE ENGINEER AT CONTRACTOR EXPENSE.
25. PIPE UNDERDRAINS SHALL BE INSTALLED ACCORDING TO SECTION 601 OF THE SSRBC AND STANDARD 601001-05. TOP OF PIPE UNDERDRAINS SHALL BE PLACED MINIMUM 6" BELOW THE AGGREGATE SUBGRADE IMPROVEMENT LAYER. THE COST OF MAKING PIPE UNDERDRAINS CONNECTIONS TO DRAINAGE STRUCTURES SHALL BE INCLUDED IN THE COST OF THE PIPE UNDERDRAINS.

**SUGGESTED MAINTENANCE OF TRAFFIC NOTES**

1. THE CONTRACTOR SHALL SUBMIT A PREPLANNED SEQUENCE OF WORK AT THE PRECONSTRUCTION CONFERENCE FOR REVIEW AND APPROVAL. WORK SHALL BE SCHEDULED TO MINIMIZE INCONVENIENCE TO RESIDENTS AND BUSINESSES AND TO MAINTAIN A REASONABLE LEVEL OF CONSTRUCTION EFFICIENCY. THE ENGINEER RESERVES THE RIGHT TO RESTRICT WORK ON ANY ROADWAY SEGMENT IF CONSTRUCTION OPERATIONS ON A PREVIOUS SEGMENT ARE UNACCEPTABLE; TRAFFIC CONTROL OPERATIONS BECOME UNACCEPTABLE; OR AN EROSION CONTROL DEFICIENCY EXISTS.

**SUGGESTED STAGING SEQUENCE**

1. ESTABLISH DETOUR ROUTE AND OTHER TRAFFIC CONTROL ITEMS. COORDINATE WITH NUNDA TOWNSHIP, MIKE LESPERANCE, HIGHWAY COMMISSIONER AT 1-815-459-4011.
2. ESTABLISH EROSION CONTROL MEASURES.
3. DEMOLISH AND RECONSTRUCT BRIDGE (SEE BRIDGE PLANS FOR SPECIFIC STAGING).
4. REMOVE EXISTING PAVEMENT AND GUARDRAIL.
5. PERFORM EARTHWORK GRADING.
6. CONSTRUCT AGGREGATE SUBGRADE IMPROVEMENTS.
7. CONSTRUCT HOT-MIX ASPHALT PAVEMENT.
8. COMPLETE PARKWAY RESTORATION.
9. INSTALL REQUIRED PAVEMENT MARKINGS.
10. REOPEN ROADWAY.
11. COMPLETE PUNCH LIST ITEMS.
12. REMOVE TEMPORARY EROSION CONTROL ITEMS ONCE SEED ESTABLISHES.

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**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

<b>GENERAL NOTES AND SUGGESTED MAINTENANCE OF TRAFFIC NOTES</b>		MUN	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
		0005	13-0009-00-BR	MCHENRY	38	3
SCALE: NONE		STA. TO STA.		CONTRACT NO. 61E04		
				FED. ROAD DIST. NO. ILLINOIS FED. AID PROJECT		

**SUMMARY OF QUANTITIES**

CODE NO.	ITEM	UNIT	TOTAL QUANTITY	BRIDGE
				0011
				RURAL
20100110	TREE REMOVAL (6 TO 15 UNITS DIAMETER)	UNIT	30	30
20100210	TREE REMOVAL (OVER 15 UNITS DIAMETER)	UNIT	120	120
20100500	TREE REMOVAL, ACRES	ACRE	0.16	0.16
20101000	TEMPORARY FENCE	FOOT	72	72
20101100	TREE TRUNK PROTECTION	EACH	6	6
20200100	EARTH EXCAVATION	CU YD	297	297
20201200	REMOVAL AND DISPOSAL OF UNSUITABLE MATERIAL	CU YD	100	100
20300100	CHANNEL EXCAVATION	CU YD	609	609
21001000	GEOTECHNICAL FABRIC FOR GROUND STABILIZATION	SQ YD	878	878
21101505	TOPSOIL EXCAVATION AND PLACEMENT	CU YD	307	307
* 25000210	SEEDING, CLASS 2A	ACRE	0.25	0.25
* 25000312	SEEDING, CLASS 4A	ACRE	0.25	0.25
* 25000314	SEEDING, CLASS 4B	ACRE	0.25	0.25
* 25000400	NITROGEN FERTILIZER NUTRIENT	POUND	5	5
* 25000600	POTASSIUM FERTILIZER NUTRIENT	POUND	5	5

\* INDICATES SPECIALTY ITEM # CONSTRUCTION TYPE CODE 0042  
 SP INDICATES ITEMS COVERED BY SPECIAL PROVISIONS

CODE NO.	ITEM	UNIT	TOTAL QUANTITY	BRIDGE
				0011
				RURAL
* 25100115	MULCH, METHOD 2	ACRE	0.50	0.50
* 25100630	EROSION CONTROL BLANKET	SQ YD	891	891
28000250	TEMPORARY EROSION CONTROL SEEDING	POUND	314	314
28000305	TEMPORARY DITCH CHECKS	FOOT	40	40
28000400	PERIMETER EROSION BARRIER	FOOT	683	683
28001100	TEMPORARY EROSION CONTROL BLANKET	SQ YD	891	891
28100107	STONE RIPRAP, CLASS A4	SQ YD	295	295
28200200	FILTER FABRIC	SQ YD	295	295
SP 30300001	AGGREGATE SUBGRADE IMPROVEMENT	CU YD	47	47
SP 30300112	AGGREGATE SUBGRADE IMPROVEMENT 12"	SQ YD	800	800
31101100	SUBBASE GRANULAR MATERIAL, TYPE B	CU YD	25	25
35102000	AGGREGATE BASE COURSE, TYPE B 8"	SQ YD	24	24
40600982	HOT-MIX ASPHALT SURFACE REMOVAL - BUTT JOINT	SQ YD	22	22
40700100	BITUMINOUS MATERIALS (TACK COAT)	POUND	2,320	2,320
40701861	HOT-MIX ASPHALT PAVEMENT (FULL DEPTH), 9"	SQ YD	585	585

\* INDICATES SPECIALTY ITEM # CONSTRUCTION TYPE CODE 0042  
 SP INDICATES ITEMS COVERED BY SPECIAL PROVISIONS

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**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

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0005	13-0009-00-BR	MCHENRY	38	4
CONTRACT NO. 61E04				
SCALE:		STA.	TO STA.	FED. ROAD DIST. NO. ILLINOIS FED. AID PROJECT



**SUMMARY OF QUANTITIES**

CODE NO.	ITEM	UNIT	TOTAL QUANTITY	BRIDGE
				0011
				RURAL
40800025	BITUMINOUS MATERIALS (PRIME COAT)	POUND	54	54
40800050	INCIDENTAL HOT-MIX ASPHALT SURFACING	TON	4	4
44000100	PAVEMENT REMOVAL	SQ YD	443	443
44000200	DRIVEWAY PAVEMENT REMOVAL	SQ YD	32	32
48101610	AGGREGATE SHOULDERS, TYPE B 9"	SQ YD	190	190
48203021	HOT-MIX ASPHALT SHOULDERS, 6"	SQ YD	299	299
50100100	REMOVAL OF EXISTING STRUCTURES	EACH	1	1
50200450	REMOVAL AND DISPOSAL OF UNSUITABLE MATERIAL FOR STRUCTURES	CU YD	421	421
50300300	PROTECTIVE COAT	SQ YD	46	46
50800105	REINFORCEMENT BARS	POUND	43,050	43,050
50800205	REINFORCEMENT BARS, EPOXY COATED	POUND	2,630	2,630
* 50900200	STEEL RAILING, TYPE 2399	FOOT	96	96
51500100	NAME PLATES	EACH	1	1
52200015	PERMANENT SHEET PILING	SQ FT	2,375	2,375
54003000	CONCRETE BOX CULVERTS	CU YD	197.0	197.0

\* INDICATES SPECIALTY ITEM # CONSTRUCTION TYPE CODE 0042  
 SP INDICATES ITEMS COVERED BY SPECIAL PROVISIONS

CODE NO.	ITEM	UNIT	TOTAL QUANTITY	BRIDGE
				0011
				RURAL
60100060	CONCRETE HEADWALLS FOR PIPE DRAINS	EACH	2	2
60108204	PIPE UNDERDRAINS, TYPE 2, 4"	FOOT	45	45
60600605	CONCRETE CURB, TYPE B	FOOT	60	60
* 63000003	STEEL PLATE BEAM GUARDRAIL, TYPE A, 9 FOOT POSTS	FOOT	125	125
* 63100045	TRAFFIC BARRIER TERMINAL, TYPE 2	EACH	2	2
* 63100087	TRAFFIC BARRIER TERMINAL, TYPE 6A	EACH	4	4
* 63100167	TRAFFIC BARRIER TERMINAL, TYPE 1 (SPECIAL) TANGENT	EACH	2	2
* 63200310	GUARDRAIL REMOVAL	FOOT	92	92
67000400	ENGINEER'S FIELD OFFICE, TYPE A	CAL MO	6	6
67100100	MOBILIZATION	LSUM	1	1
70300100	SHORT TERM PAVEMENT MARKING	FOOT	1,920	1,920
70300150	SHORT TERM PAVEMENT MARKING REMOVAL	SQ FT	640	640
70300220	TEMPORARY PAVEMENT MARKING- LINE 4"	FOOT	1,192	1,192
72000100	SIGN PANEL - TYPE 1	SQ FT	18	18
72400100	REMOVE SIGN PANEL ASSEMBLY - TYPE A	EACH	7	7

\* INDICATES SPECIALTY ITEM # CONSTRUCTION TYPE CODE 0042  
 SP INDICATES ITEMS COVERED BY SPECIAL PROVISIONS

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DRAWN - CJC	REVISED -
CHECKED - JJF	REVISED -
DATE - 8-4-17	FILE - 130921SHT_500.dgn

**STATE OF ILLINOIS  
 DEPARTMENT OF TRANSPORTATION**

**SUMMARY OF QUANTITIES**

SCALE: STA. TO STA.

MUN	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
0005	13-00009-00-BR	MCHENRY	38	5
CONTRACT NO. 61E04			FED. ROAD DIST. NO. ILLINOIS FED. AID PROJECT	

**SUMMARY OF QUANTITIES**

CODE NO.	ITEM	UNIT	TOTAL QUANTITY	BRIDGE	
				0011	RURAL
72400500	RELOCATE SIGN PANEL ASSEMBLY- TYPE A	EACH	1	1	
* 72501000	TERMINAL MARKER - DIRECT APPLIED	EACH	4	4	
72800100	TELESCOPING STEEL SIGN SUPPORT	FOOT	26	26	
* 78000200	THERMOPLASTIC PAVEMENT MARKING - LINE 4"	FOOT	1,192	1,192	
* 78200005	GUARDRAIL REFLECTORS, TYPE A	EACH	8	8	
SP Z0013798	CONSTRUCTION LAYOUT	LSUM	1	1	
SP Z0030850	TEMPORARY INFORMATION SIGNING	SQ FT	75	75	
SP Z0054400	ROCK FILL	CU YD	421	421	
# SP Z0076600	TRAINEES	HOUR	500	500	
# SP Z0076604	TRAINEES TRAINING PROGRAM GRADUATE	HOUR	500	500	
* A2002616	TREE CARYA CORDIFORMIS (BITTERNUT HICKORY), 2" CALIPER, BALLED AND BURLAPPED	EACH	6	6	
SP X0322128	MEMBRANE WATERPROOFING FOR BURIED STRUCTURES	SQ YD	180	180	
SP X4022000	TEMPORARY ACCESS (COMMERCIAL ENTRANCE)	EACH	1	1	
SP X4023000	TEMPORARY ACCESS (ROAD)	EACH	1	1	
* SP X6330725	STEEL PLATE BEAM GUARDRAIL (SHORT RADIUS)	FOOT	12.5	12.5	

\* INDICATES SPECIALTY ITEM # CONSTRUCTION TYPE CODE 0042  
 SP INDICATES ITEMS COVERED BY SPECIAL PROVISIONS

CODE NO.	ITEM	UNIT	TOTAL QUANTITY	BRIDGE	
				0011	RURAL
SP X7010216	TRAFFIC CONTROL AND PROTECTION, (SPECIAL)	LSUM	1	1	
SP X7030005	TEMPORARY PAVEMENT MARKING REMOVAL	SQ FT	398	398	

\* INDICATES SPECIALTY ITEM # CONSTRUCTION TYPE CODE 0042  
 SP INDICATES ITEMS COVERED BY SPECIAL PROVISIONS

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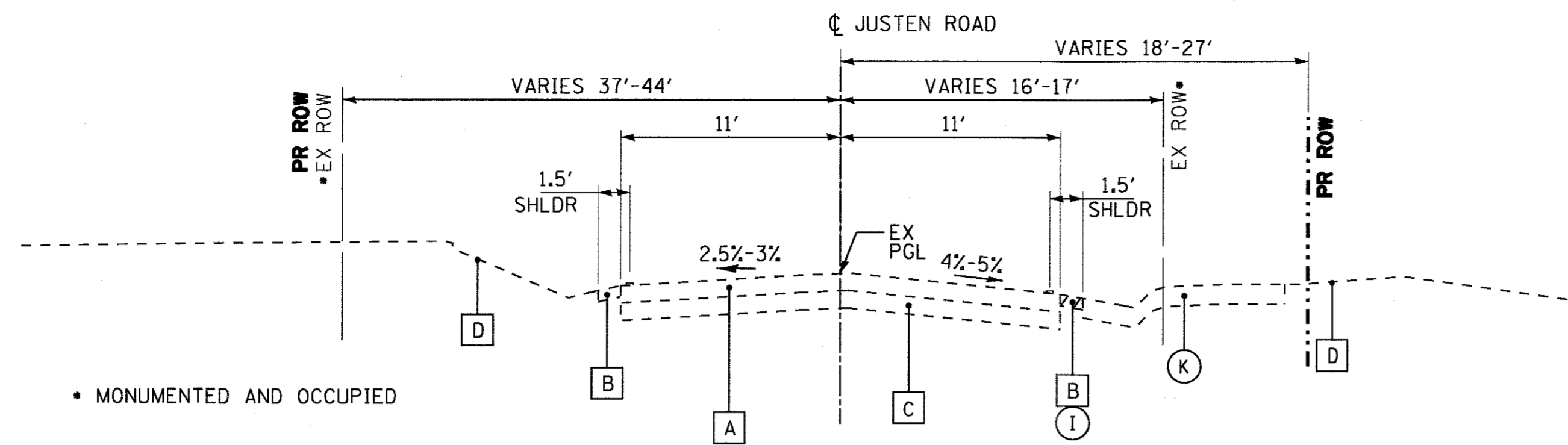
**STATE OF ILLINOIS  
 DEPARTMENT OF TRANSPORTATION**

**SUMMARY OF QUANTITIES**

SCALE: \_\_\_\_\_ STA. \_\_\_\_\_ TO STA. \_\_\_\_\_

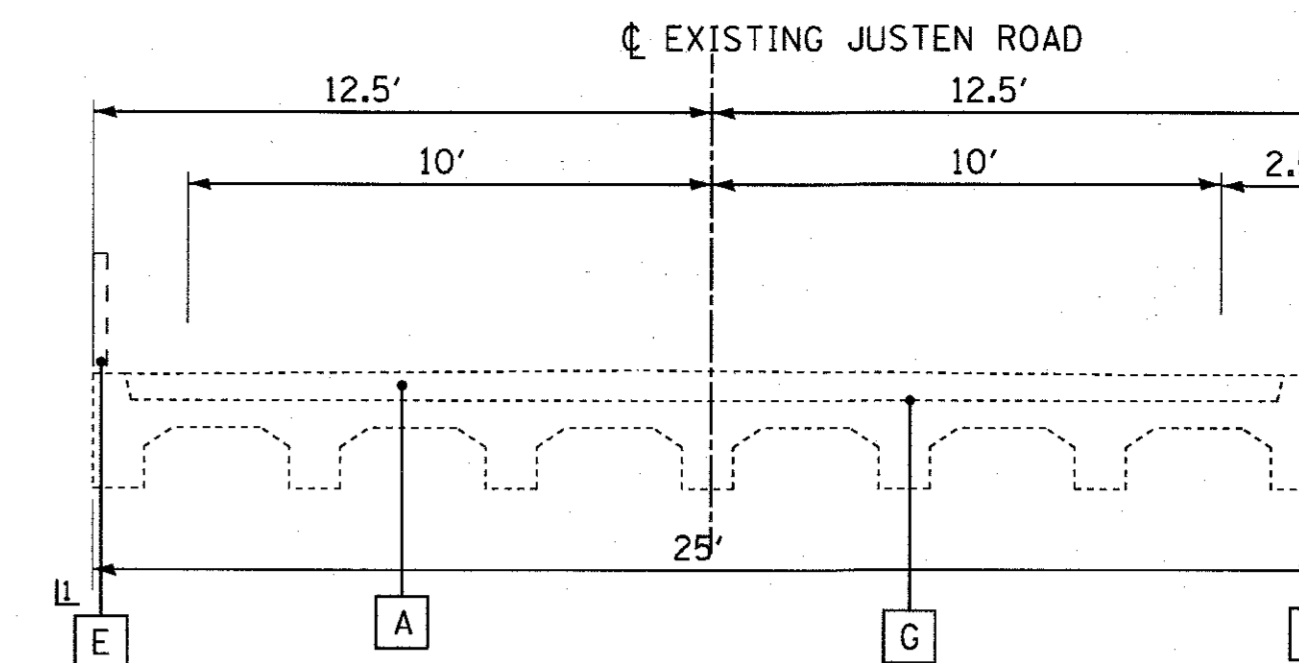
MUN	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
0005	13-00009-00-BR	MCHENRY	38	6
FED. ROAD DIST. NO.			ILLINOIS FED. AID PROJECT	
			CONTRACT NO. 61E04	





**EXISTING TYPICAL SECTION**

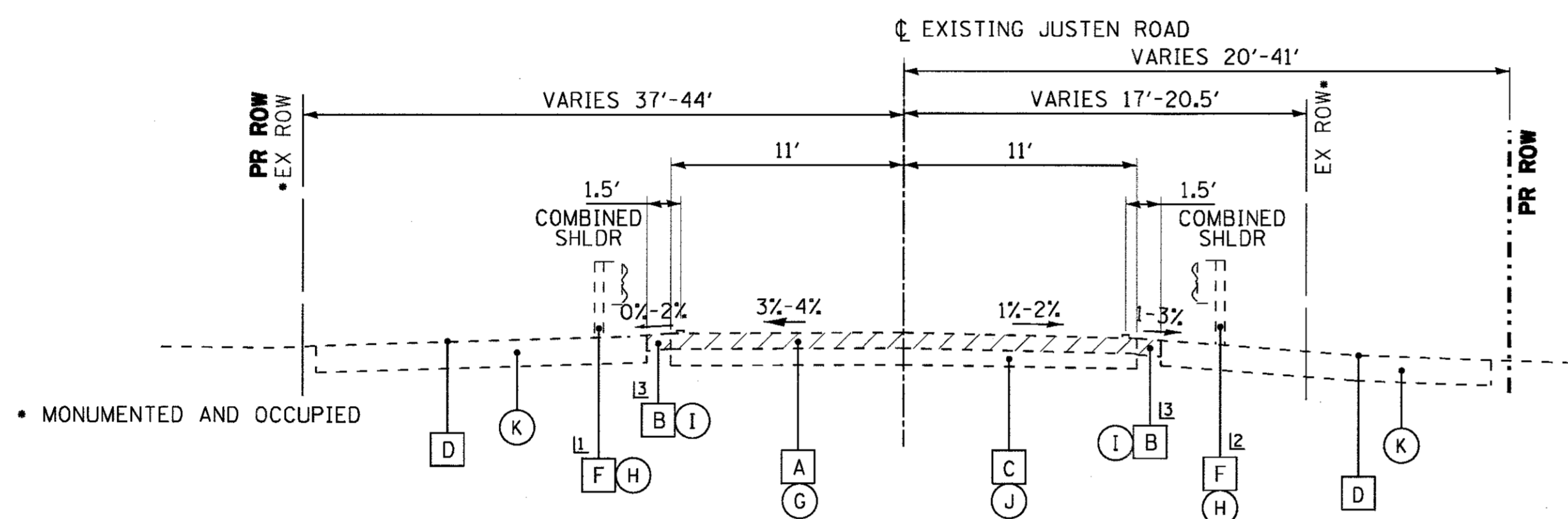
STA 105+22 TO STA 105+60, JUSTEN ROAD



**EXISTING TYPICAL SECTION**

STA 106+68.07 TO STA 107+31.94, JUSTEN ROAD

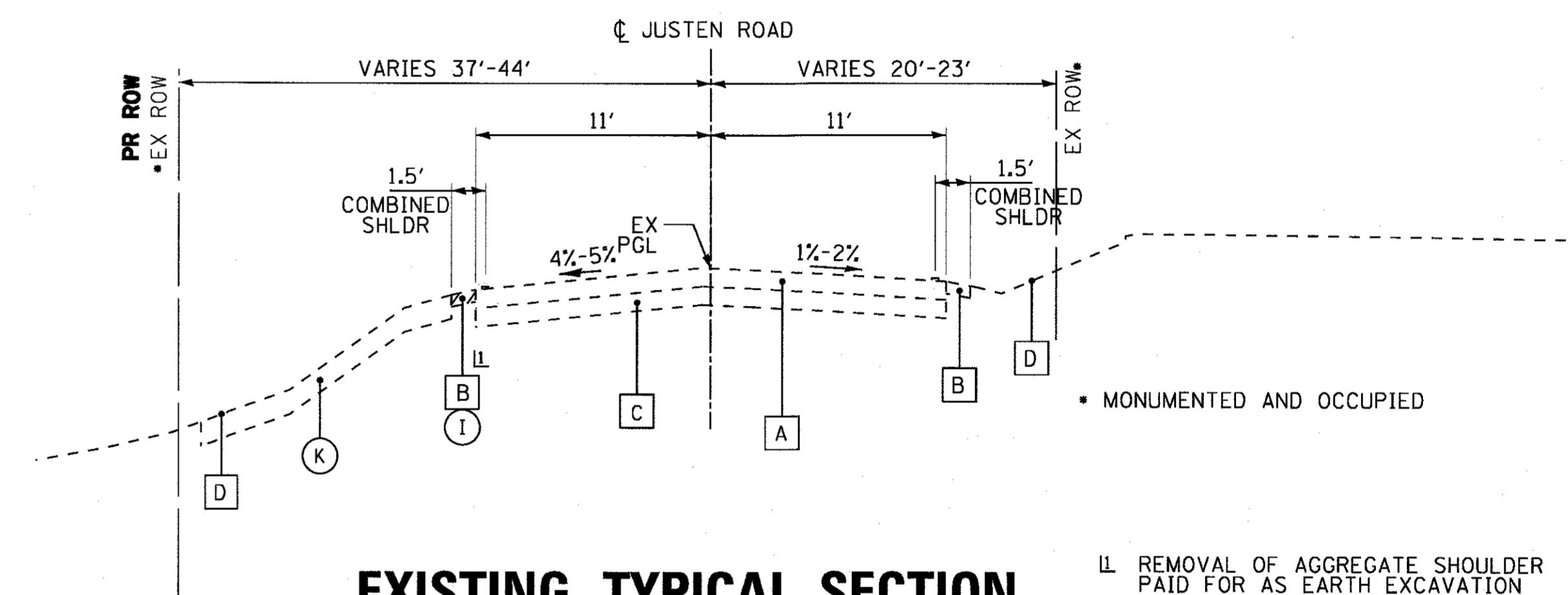
LL STEEL RAILING TO BE REMOVED STA 106+68.07 TO 107+31.94 INCLUDED IN REMOVAL OF EXISTING STRUCTURES



**EXISTING TYPICAL SECTION**

STA 105+60 TO STA 108+00, JUSTEN ROAD

LL EXISTING GUARDRAIL TO BE REMOVED STA 106+51 TO STA 107+68  
 L2 EXISTING GUARDRAIL TO BE REMOVED STA 106+36 TO STA 107+40  
 L3 REMOVAL OF AGGREGATE SHOULDER PAID FOR AS EARTH EXCAVATION



**EXISTING TYPICAL SECTION**

STA 108+00 TO STA 108+78, JUSTEN ROAD

LL REMOVAL OF AGGREGATE SHOULDER PAID FOR AS EARTH EXCAVATION

**EXISTING LEGEND**

- A HOT-MIX ASPHALT PAVEMENT (VARIES 9" - 9.5")
- B AGGREGATE SHOULDER
- C AGGREGATE SUBGRADE (VARIES 7.25" - 16.5")
- D GROUND
- E STEEL RAILING
- F GUARDRAIL
- G PAVEMENT REMOVAL
- H GUARDRAIL REMOVAL
- I SHOULDER REMOVAL (TO BE PAID FOR AS EARTH EXCAVATION)
- J EARTH EXCAVATION
- K TOPSOIL REMOVAL (12")
- Items to be removed (hatched pattern)

**EXISTING TYPICAL SECTION NOTES:**

1. THE PAVEMENT AND BASE COURSE THICKNESS WERE TAKEN FROM THE "STRUCTURE GEOTECHNICAL REPORT" PREPARED BY SOIL AND MATERIAL CONSULTANTS, INC DATED JANUARY 23, 2015.

**SOILS REPORT PAVEMENT CORE RESULTS:**

**BRIDGE DECK**  
 (C-101) STA 106+78, 7ft Rt., HMA PAVEMENT THICKNESS = 6.5 INCHES  
 (C-102) STA 107+22, 6ft Lt., HMA PAVEMENT THICKNESS = 9.0 INCHES

**APPROACH**

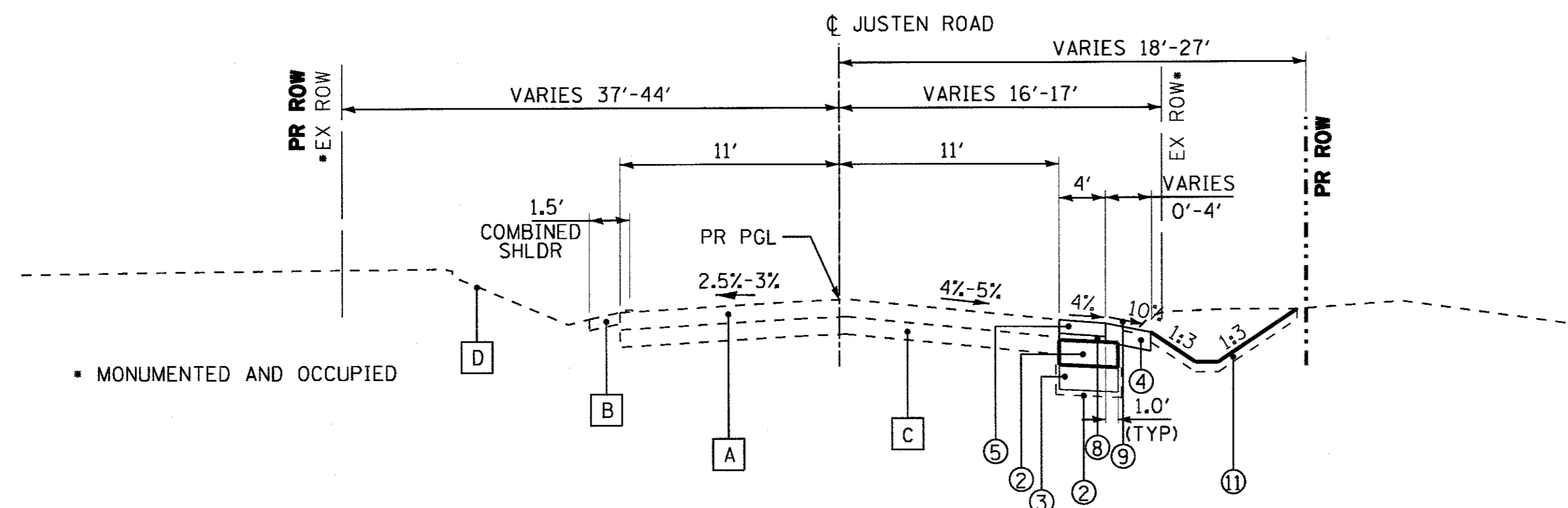
(B-1) STA 106+68, 6ft Lt., HMA PAVEMENT THICKNESS = 9.5 INCHES, 16.5 INCHES AGG W/SAND  
 (B-2) STA 107+32, 5ft Rt., HMA PAVEMENT THICKNESS = 9 INCHES, 10 INCHES AGG W/SAND  
 (R-1) STA 106+29, 5ft Lt., HMA PAVEMENT THICKNESS = 9.25 INCHES, 7.25 INCHES AGG W/SAND  
 (R-2) STA 107+75, 7ft Rt., HMA PAVEMENT THICKNESS = 9.5 INCHES, 7.75 INCHES AGG W/SAND  
 (R-1) STA 106+29, 5ft Lt., HMA PAVEMENT THICKNESS = 9.25 INCHES, 7.25 INCHES AGG W/SAND  
 (R-2) STA 107+75, 7ft Rt., HMA PAVEMENT THICKNESS = 9.5 INCHES, 7.75 INCHES AGG W/SAND

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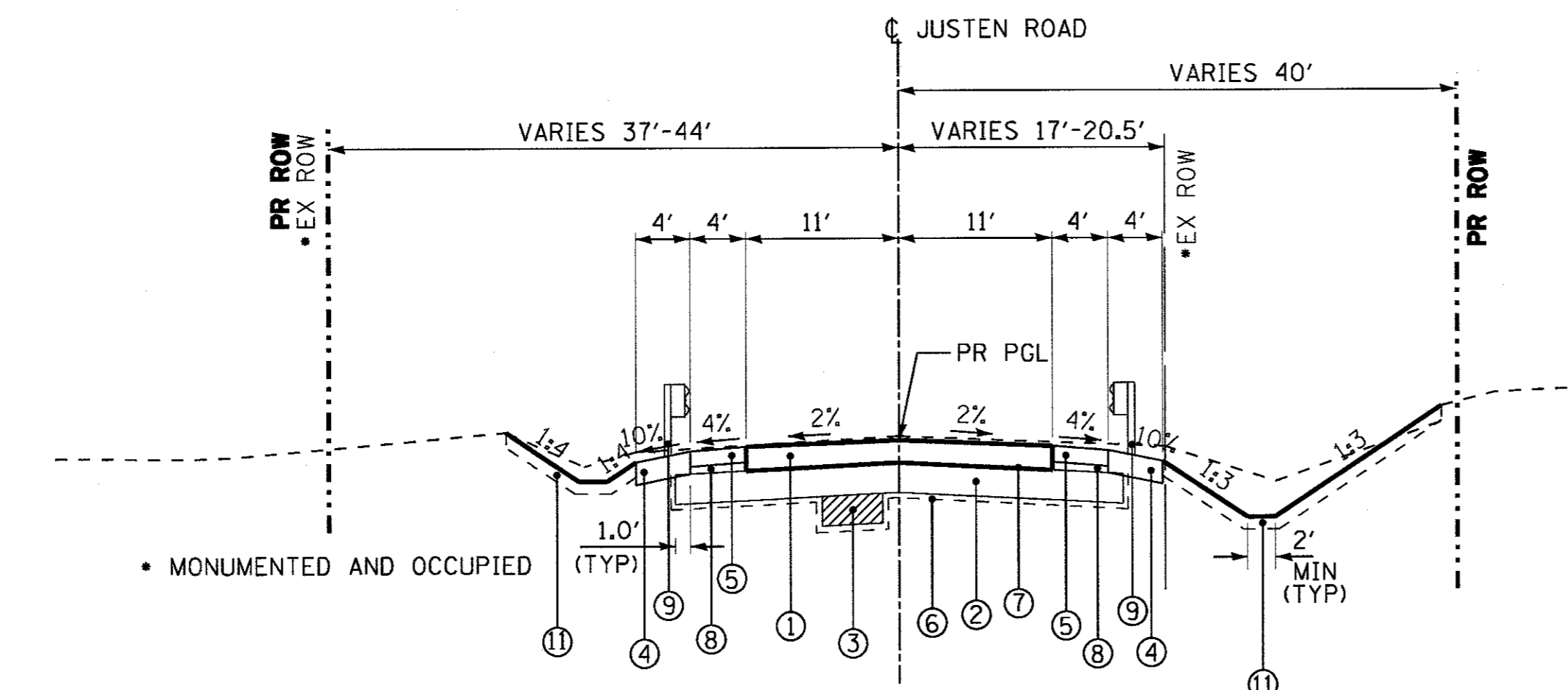
**STATE OF ILLINOIS  
 DEPARTMENT OF TRANSPORTATION**

SCALE: NONE		STA. TO STA.		MUN	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
				0005	13-00009-00-BR	MCHENRY	38	7
				CONTRACT NO. 61E04				
				FED. ROAD DIST. NO. ILLINOIS FED. AID PROJECT				



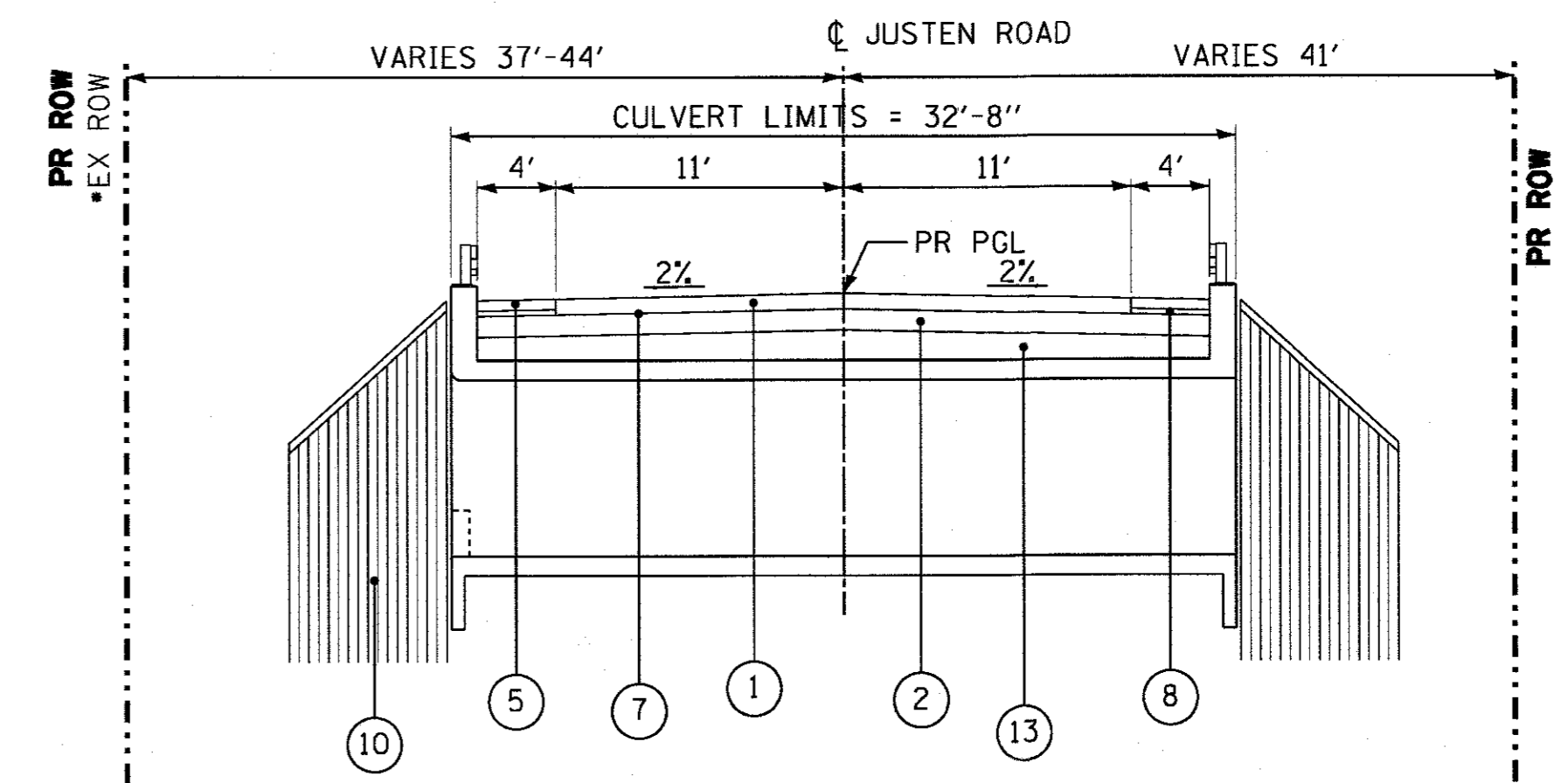
**PROPOSED TYPICAL SECTION**

STA 105+22 TO STA 105+60, JUSTEN ROAD



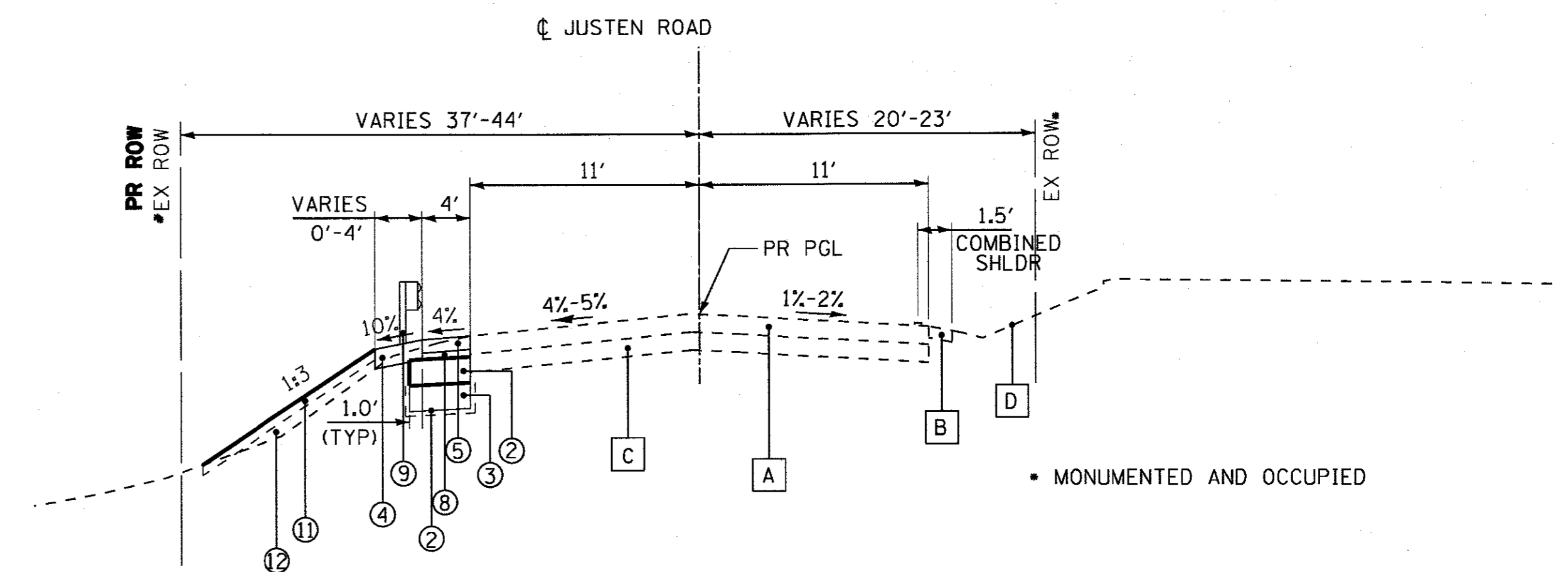
**PROPOSED TYPICAL SECTION**

STA 105+60 TO STA 108+00, JUSTEN ROAD



**PROPOSED TYPICAL SECTION AT BOX CULVERT**

STA 106+76.19 TO STA 107+23.81, JUSTEN ROAD  
(SEE STRUCTURAL SHEETS FOR DETAILED INFORMATION)



**PROPOSED TYPICAL SECTION**

STA 108+00 TO STA 108+78, JUSTEN ROAD

**EXISTING LEGEND**

- A** HOT-MIX ASPHALT PAVEMENT (VARIES 9" - 9.5")
- B** AGGREGATE SHOULDER
- C** AGGREGATE SUBGRADE (VARIES 7.25" - 16.5")
- D** GROUND
- E** STEEL RAILING
- F** GUARDRAIL
- G** PAVEMENT REMOVAL
- H** GUARDRAIL REMOVAL
- I** SHOULDER REMOVAL (TO BE PAID FOR AS EARTH EXCAVATION)
- J** EARTH EXCAVATION
- K** TOPSOIL REMOVAL (12")
- ITEMS TO BE REMOVED

**PROPOSED LEGEND**

- 1** PAVEMENT:  
HOT-MIX ASPHALT SURFACE COURSE, MIX "D", N50 - 2"  
HOT-MIX ASPHALT BINDER COURSE, IL-19.0, N50 - 7"
- 2** AGGREGATE SUBGRADE IMPROVEMENT, 12"
- 3** REMOVAL AND DISPOSAL OF UNSUITABLE MATERIAL  
••AGGREGATE SUBGRADE IMPROVEMENT (SEE NOTE 1)
- 4** AGGREGATE SHOULDERS, TYPE B 9"
- 5** HOT-MIX ASPHALT SHOULDERS, 6"
- 6** GEOTECHNICAL FABRIC FOR GROUND STABILIZATION
- 7** BITUMINOUS MATERIALS (TACK COAT)
- 8** SUBBASE GRANULAR MATERIAL, TYPE B, 3"
- 9** GUARDRAIL
- 10** RETAINING WALL (STEEL SHEET PILE)
- 11** TOPSOIL EXCAVATION AND PLACEMENT - 12" DEPTH  
EROSION CONTROL BLANKET  
FERTILIZER  
SEEDING
- 12** EMBANKMENT
- 13** GRANULAR BACKFILL AS SPECIFIED BY BOX CULVERT SUPPLIER  
(INCLUDED IN COST OF BOX CULVERT STRUCTURE)

**NOTES:**

- \*\*AGGREGATE SUBGRADE IMPROVEMENT (CU YD) 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 AGGREGATE SUBGRADE IMPROVEMENT (CU YD) WILL BE DETERMINED IN THE FIELD AT THE TIME OF CONSTRUCTION BY THE GEOTECHNICAL ENGINEER. ALL POTENTIALLY UNSTABLE SOILS SHOULD BE TESTED WITH A STATIC CONE PENETROMETER AND/OR DYNAMIC CONE PENETROMETER AND TREATED IN ACCORDANCE WITH ARTICLE 301.04 (04/01/2016) OF THE STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION AND THE CURRENT IDOT SUBGRADE STABILITY MANUAL. IF UNSTABLE AND/OR UNSUITABLE SOILS ARE NOT ENCOUNTERED, THEN THE QUANTITY SHALL BE DEDUCTED AND NO ADDITIONAL COMPENSATION WILL BE DUE TO THE CONTRACTOR.
- PIPE UNDERDRAINS, TYPE 2, 4" SHALL BE PLACED TO DRAIN THE LOW AREAS OF THE ROAD AND AT THE BASE OF UNDERCUTS AREAS REPLACED BY AGGREGATE SUBGRADE IMPROVEMENT. TRANSVERSE UNDERDRAINS SHALL BE PLACED IN THE LOW POINTS WHERE THE ROAD WILL BE RECONSTRUCTED AND CONNECTED TO NEAREST DRAINAGE STRUCTURE. PIPE UNDERDRAINS, TYPE 2, 4" SHALL BE INSTALLED IN ACCORDANCE WITH THE LATEST STANDARD SPECIFICATIONS.

HOT-MIX ASPHALT MIXTURE REQUIREMENTS	
MIXTURE TYPE	AIR VOIDS @ Ndes
<b>FULL DEPTH PAVEMENT</b>	
HOT-MIX ASPHALT SURFACE COURSE, MIX "D", N50, (1L 9.5MM), 2"	4% @ 50 GYR
HOT-MIX ASPHALT BINDER COURSE, IL-19.0, N50, 7" (IN TWO LIFTS)	4% @ 50 GYR
<b>HOT-MIX ASPHALT SHOULDERS</b>	
HOT-MIX ASPHALT SURFACE COURSE, MIX "D", N50, (1L 9.5MM), 2"	4% @ 50 GYR
HOT-MIX ASPHALT BINDER COURSE, IL-19.0, N50, 4"	4% @ 50 GYR
<b>DRIVEWAYS</b>	
INCIDENTAL HOT-MIX ASPHALT SURFACING, MIX "D", N50 - 3"	4% @ 50 GYR

NOTE: THE CONTRACTOR SHALL MILL BEFORE PATCHING.  
 1. THE UNIT WEIGHT USED TO CALCULATE ALL HOT-MIX ASPHALT SURFACE MIXTURE QUANTITIES IS 112 LB/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 HMA FULL DEPTH "AC TYPE" SEE SPECIAL PROVISIONS. FOR USE OF RECYCLED MATERIALS SEE SPECIAL PROVISIONS.

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**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

SCALE: NONE		STA. TO STA.	
TYPICAL SECTIONS		TYPICAL SECTIONS	

MUN	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
0005	13-00009-00-BR	MCHENRY	38	8
FED. ROAD DIST. NO.		ILLINOIS FED. AID PROJECT		
		CONTRACT NO. 61E04		





**SCHEDULE OF QUANTITIES**

ROADWAY SCHEDULE														
FROM	TO	44000100 PAVEMENT REMOVAL SQ YD	44000200 DRIVEWAY PAVEMENT REMOVAL SQ YD	40600982 HOT-MIX ASPHALT SURFACE REMOVAL - BUTT JOINT SQ YD	21001000 GEOTECHNICAL FABRIC FOR GROUND STABILIZATION SQ YD	30300112 AGGREGATE SUBGRADE IMPROVEMENT 12" SQ YD	35102000 AGGREGATE BASE COURSE, TYPE B 8" SQ YD	48101500 AGGREGATE SHOULDERS, TYPE B 9" SQ YD	31101100 SUBBASE GRANULAR MATERIAL, TYPE B CU YD	48203021 HOT-MIX ASPHALT SHOULDERS, 6" SQ YD	40700100 BITUMINOUS MATERIALS (TACK COAT) POUND	40800025 BITUMINOUS MATERIALS (PRIME COAT) POUND	40701861 HOT-MIX ASPHALT PAVEMENT (FULL DEPTH), 9" SQ YD	40800050 INCIDENTAL HOT-MIX ASPHALT SURFACING TON
JUSTEN ROAD														
503+43	506+03	443		22	854	800		190	25	299	2,320		585	
COMMERCIAL ENTRANCE														
503+43	506+03		32		24		24					54		4
<b>TOTALS</b>		<b>443</b>	<b>32</b>	<b>22</b>	<b>878</b>	<b>800</b>	<b>24</b>	<b>190</b>	<b>25</b>	<b>299</b>	<b>2,320</b>	<b>54</b>	<b>585</b>	<b>4</b>

PARKWAY RESTORATION SCHEDULE									
FROM	TO	SIDE	PROPOSED RESTORATION AREA SQ YD	21101505 TOPSOIL EXCAVATION AND PLACEMENT CU YD	25000210 SEEDING, CLASS 2A* ACRE	25000312 SEEDING, CLASS 4A* ACRE	25000400 NITROGEN FERTILIZER NUTRIENT POUND	25000600 POTASSIUM FERTILIZER NUTRIENT POUND	25100630 EROSION CONTROL BLANKET SQ YD
105+19	105+76	RT	72	24	0.02		2	2	72
105+47	106+10	LT	129	43	0.03		3	3	129
105+76	106+68	RT	132	44		0.03			132
106+28	107+20	LT	121	50		0.03			121
106+86	108+03	RT	159	53		0.04			159
107+36	108+86	LT	277	93		0.06			277
<b>TOTALS</b>			<b>890</b>	<b>307</b>	<b>0.25</b>	<b>0.25</b>	<b>5</b>	<b>5</b>	<b>890</b>

EROSION CONTROL SCHEDULE							
FROM	TO	SIDE	28001100 TEMPORARY EROSION CONTROL BLANKET SQ YD	28000250 TEMPORARY EROSION CONTROL SEEDING POUND	28000305 TEMPORARY DITCH CHECKS FOOT	25100115 MULCH, METHOD 2* ACRE	28000400 PERIMETER EROSION BARRIER FOOT
105+19	105+76	RT	72	25		0.04	58
105+47	106+10	LT	129	45	10	0.06	50
105+76	106+68	RT	132	46	20	0.06	76
106+28	107+20	LT	121	43	10	0.06	86
106+86	107+15	RT	44	15		0.02	132
107+15	108+03	RT	116	41		0.06	133
107+36	108+86	LT	277	97		0.12	148
<b>TOTALS</b>			<b>891</b>	<b>314</b>	<b>40</b>	<b>0.50</b>	<b>683</b>

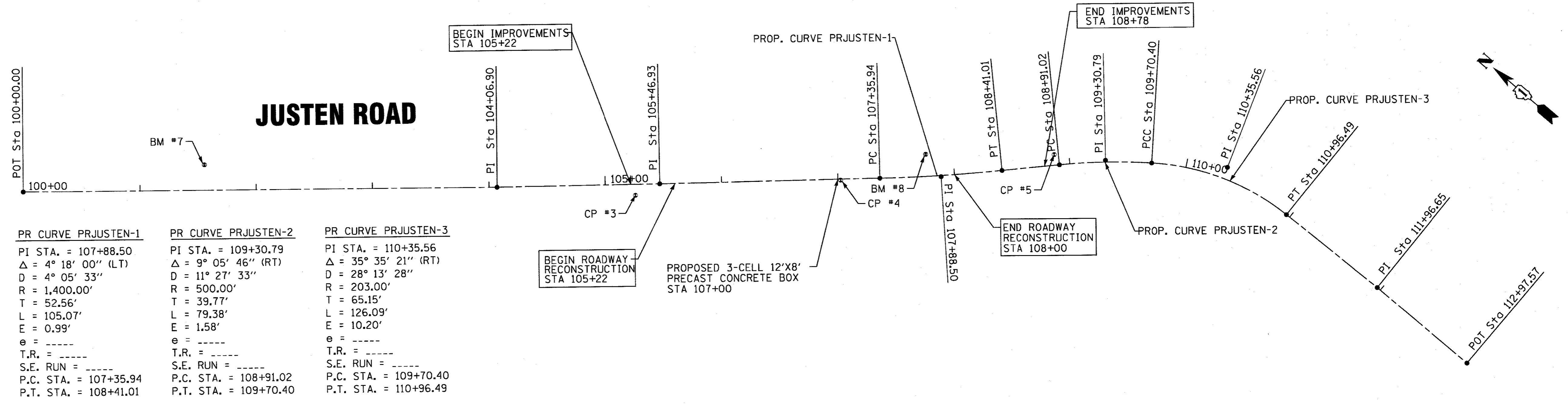
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**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

SCALE:		STA.		TO STA.		<b>SCHEDULE OF QUANTITIES</b>	
MUN	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.			
0005	13-00009-00-BR	MCHENRY	38	10			
FED. ROAD DIST. NO.		ILLINOIS FED. AID PROJECT		CONTRACT NO. 61E04			





PR CURVE PRJUSTEN-1	PR CURVE PRJUSTEN-2	PR CURVE PRJUSTEN-3
PI STA. = 107+88.50	PI STA. = 109+30.79	PI STA. = 110+35.56
Δ = 4° 18' 00" (LT)	Δ = 9° 05' 46" (RT)	Δ = 35° 35' 21" (RT)
D = 4° 05' 33"	D = 11° 27' 33"	D = 28° 13' 28"
R = 1,400.00'	R = 500.00'	R = 203.00'
T = 52.56'	T = 39.77'	T = 65.15'
L = 105.07'	L = 79.38'	L = 126.09'
E = 0.99'	E = 1.58'	E = 10.20'
θ = -----	θ = -----	θ = -----
T.R. = -----	T.R. = -----	T.R. = -----
S.E. RUN = -----	S.E. RUN = -----	S.E. RUN = -----
P.C. STA. = 107+35.94	P.C. STA. = 108+91.02	P.C. STA. = 109+70.40
P.T. STA. = 108+41.01	P.T. STA. = 109+70.40	P.T. STA. = 110+96.49

**PROPOSED  $\phi$  JUSTEN ROAD:**

CHAIN PRJUSTEN CONTAINS:  
 J1 J2 J3 CUR PRJUSTEN-1 CUR PRJUSTEN-2 CUR PRJUSTEN-3 J4 J5

BEGINNING CHAIN PRJUSTEN DESCRIPTION

POINT J1	N	2,049,688.47 E	1,006,659.79 STA	100+00
COURSE FROM J1 TO J2 S 40° 49' 41" E DIST 406.90				
POINT J2	N	2,049,380.58 E	1,006,925.82 STA	104+07
COURSE FROM J2 TO J3 S 41° 23' 22" E DIST 140.03				
POINT J3	N	2,049,275.52 E	1,007,018.41 STA	105+47
COURSE FROM J3 TO PC PRJUSTEN-1 S 41° 43' 08" E DIST 189.01				

**CURVE DATA**

**CURVE PRJUSTEN-1**

P.I. STATION	107+89 N	2,049,095.21 E	1,007,179.16
DELTA	4° 18' 00" (LT)		
DEGREE	4° 05' 33"		
TANGENT	52.56		
LENGTH	105.07		
RADIUS	1,400.00		
EXTERNAL	0.99		
LONG CHORD	105.04		
MID. ORD.	0.99		
P.C. STATION	107+36 N	2,049,134.44 E	1,007,144.19
P.T. STATION	108+41 N	2,049,058.71 E	1,007,216.98
C.C.	N	2,050,066.10 E	1,008,189.18
BACK	S 41° 43' 08" E		
AHEAD	S 46° 01' 08" E		
CHORD BEAR	S 43° 52' 08" E		

COURSE FROM PT PRJUSTEN-1 TO PC PRJUSTEN-2 S 46° 01' 08" E DIST 50.01

**CURVE DATA**

**CURVE PRJUSTEN-2**

P.I. STATION	109+31 N	2,048,996.36 E	1,007,281.59
DELTA	9° 05' 46" (RT)		
DEGREE	11° 27' 33"		
TANGENT	39.77		
LENGTH	79.38		
RADIUS	500.00		
EXTERNAL	1.58		
LONG CHORD	79.30		
MID. ORD.	1.57		
P.C. STATION	108+91 N	2,049,023.98 E	1,007,252.97
P.T. STATION	109+70 N	2,048,964.56 E	1,007,305.48
C.C.	N	2,048,664.20 E	1,006,905.76
BACK	S 46° 01' 08" E		
AHEAD	S 36° 55' 21" E		
CHORD BEAR	S 41° 28' 14" E		

**CURVE DATA**

**CURVE PRJUSTEN-3**

P.I. STATION	110+36 N	2,048,912.47 E	1,007,344.62
DELTA	35° 35' 21" (RT)		
DEGREE	28° 13' 28"		
TANGENT	65.15		
LENGTH	126.09		
RADIUS	203.00		
EXTERNAL	10.20		
LONG CHORD	124.08		
MID. ORD.	9.71		
P.C. STATION	109+70 N	2,048,964.56 E	1,007,305.48
P.T. STATION	110+96 N	2,048,847.34 E	1,007,346.14
C.C.	N	2,048,842.61 E	1,007,143.20
BACK	S 36° 55' 21" E		
AHEAD	S 1° 20' 00" E		
CHORD BEAR	S 19° 07' 41" E		

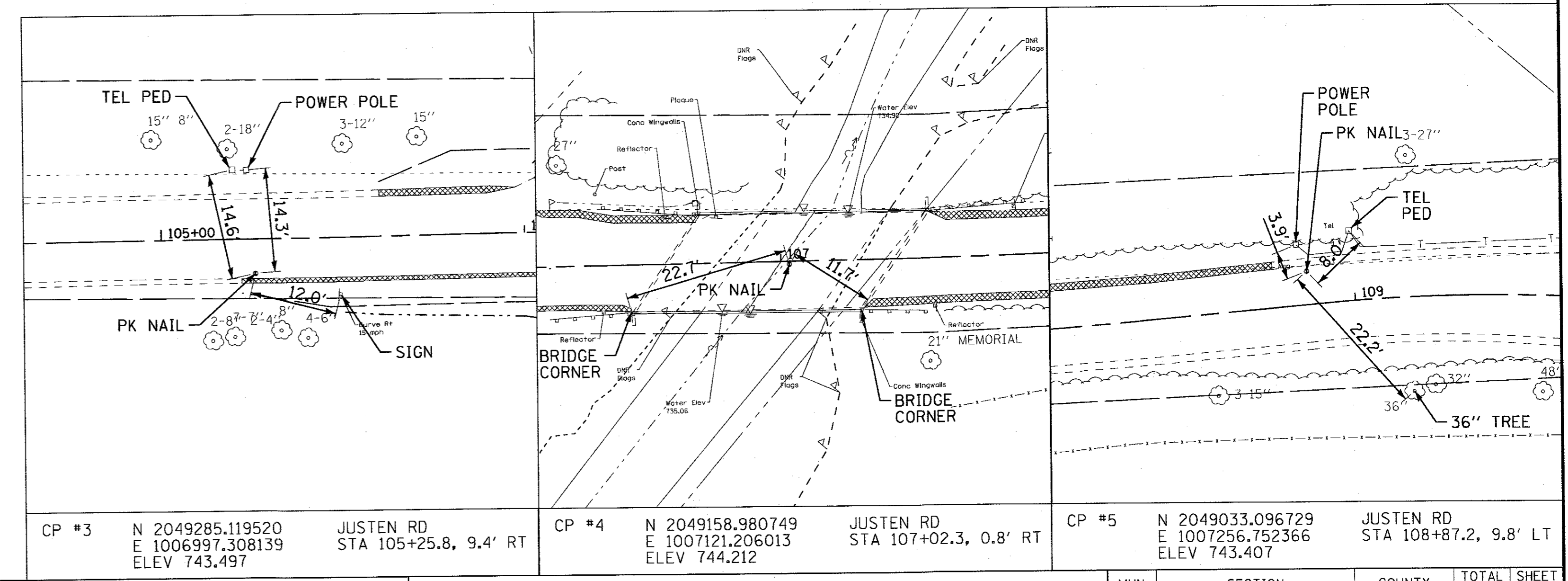
COURSE FROM PT PRJUSTEN-3 TO J4 S 1° 20' 00" E DIST 100.15

POINT J4	N	2,048,747.21 E	1,007,348.47 STA	111+97
COURSE FROM J4 TO J5 S 0° 08' 23" E DIST 100.93				
POINT J5	N	2,048,646.28 E	1,007,348.72 STA	112+98

ENDING CHAIN PRJUSTEN DESCRIPTION

**BENCHMARKS**

- BM 7  
EL 739.742 (NAVD88)  
IN POWER POLE IN EAST PARKWAY OF JUSTEN ROAD  
JUST SOUTH OF HSE 2508
- BM 8  
EL 745.327 (NAVD88)  
IN POWER POLE IN EAST PARKWAY OF JUSTEN ROAD  
JUST SOUTH OF BRIDGE OVER CREEK
- BM 10  
EL 750.967 (NAVD88)  
IN POWER POLE IN EAST PARKWAY OF JUSTEN ROAD  
ACROSS FROM HSE 2711



<b>BAXTER &amp; WOODMAN</b> Consulting Engineers	DESIGNED - CAC	REVISED -
	DRAWN - CJC	REVISED -
	CHECKED - JUF	REVISED -
	DATE - 8-4-17	FILE - 130921SHT_ALIGN1.dgn

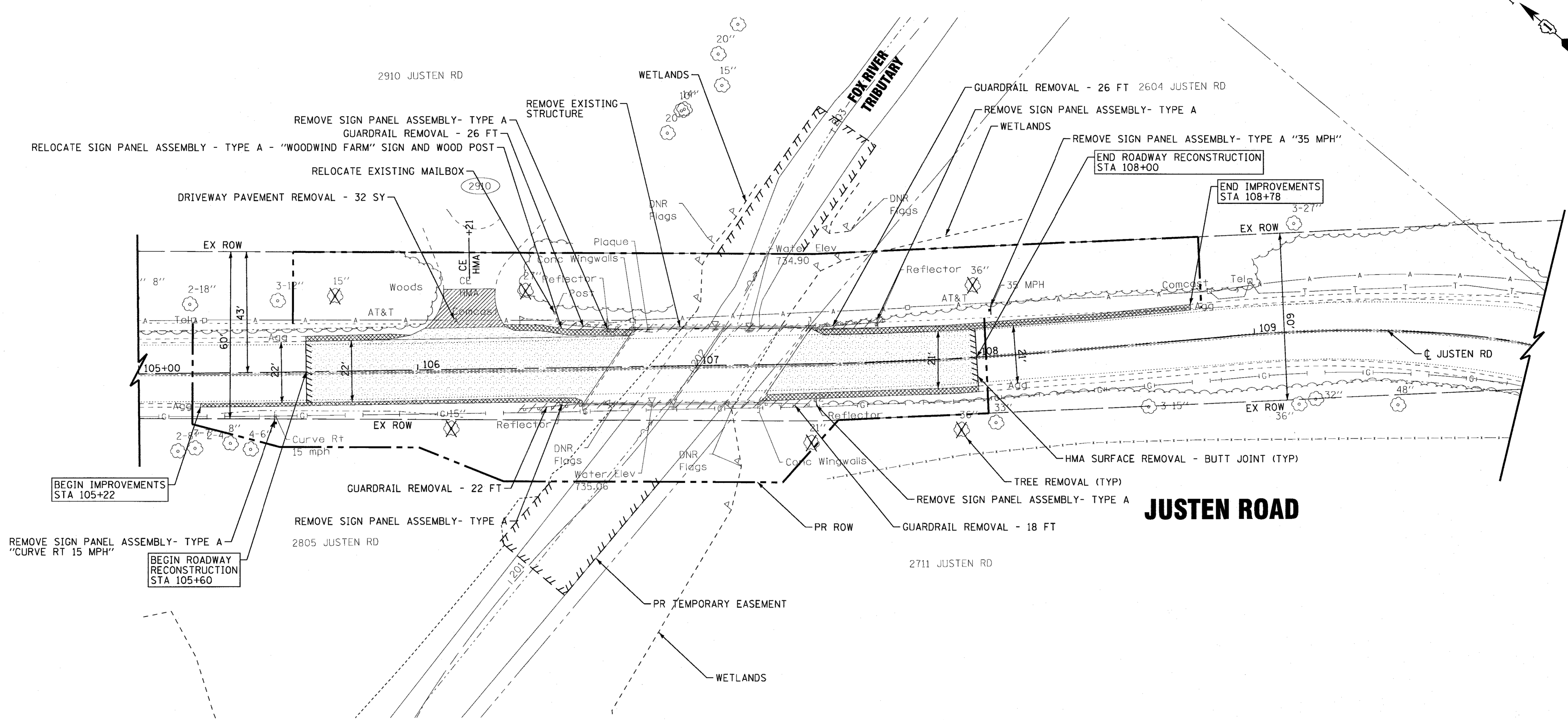
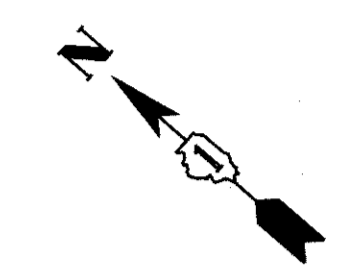
**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

**ALIGNMENTS, TIES AND BENCHMARKS**

SCALE: 1" = 50'  
STA. TO STA.

MUN	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
0005	13-00009-00-BR	MCHENRY	38	11
FED. ROAD DIST. NO. [ILLINOIS] FED. AID PROJECT				

CONTRACT NO. 61E04



**LEGEND:**

- PAVEMENT REMOVAL
- DRIVEWAY AND SHOULDER REMOVAL
- AGGREGATE SHOULDER REMOVAL (PAID FOR AS EARTH EXCAVATION)
- GUARDRAIL REMOVAL
- STEEL RAILING REMOVAL (INCLUDED IN REMOVAL OF EXISTING STRUTURES)
- TREE REMOVAL
- SURFACE REMOVAL - BUTT JOINT



DESIGNED - CAC	REVISED -
DRAWN - CJC	REVISED -
CHECKED - JJF	REVISED -
DATE - 8-4-17	FILE - 130921SHT_Removal.dgn

**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

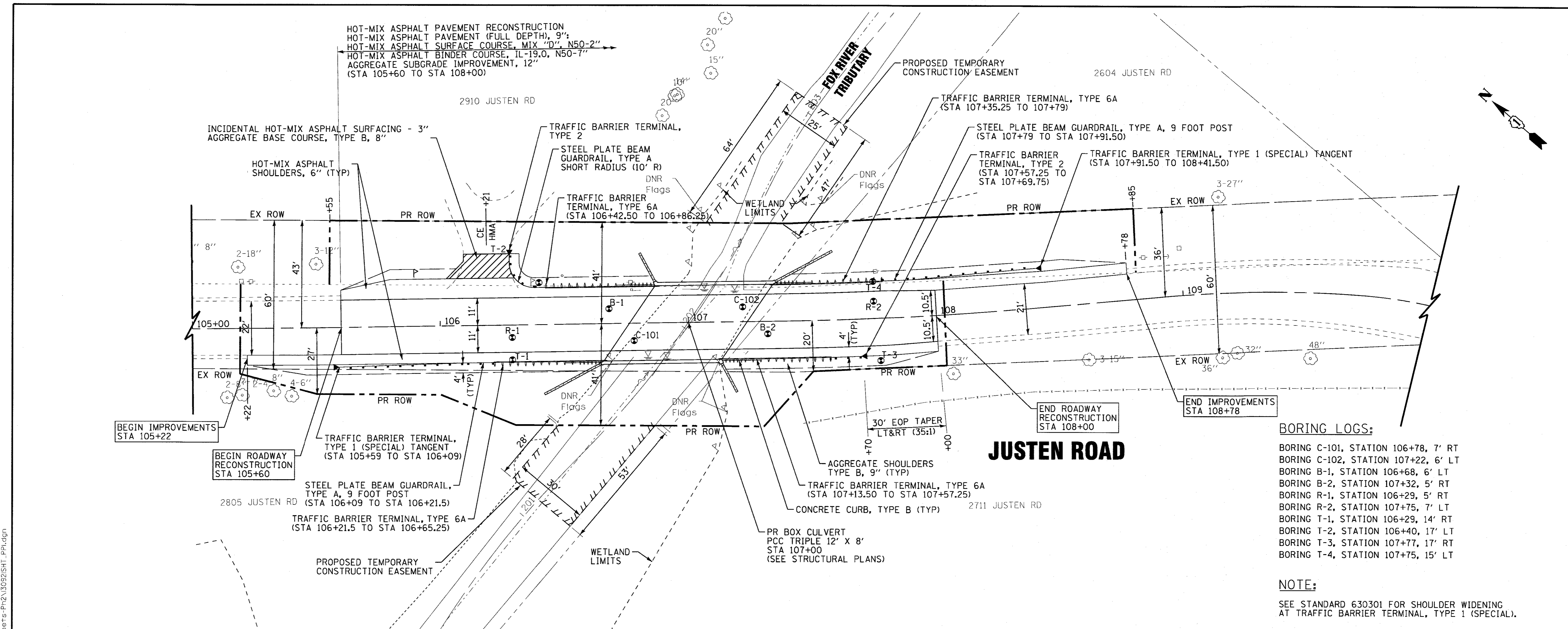
**EXISTING CONDITIONS AND REMOVAL PLAN**

SCALE: 1" = 20'      STA.      TO STA.

MUN	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
0005	13-00009-00-BR	MCHENRY	38	12
FED. ROAD DIST. NO.			ILLINOIS FED. AID PROJECT	
CONTRACT NO. 61E04				

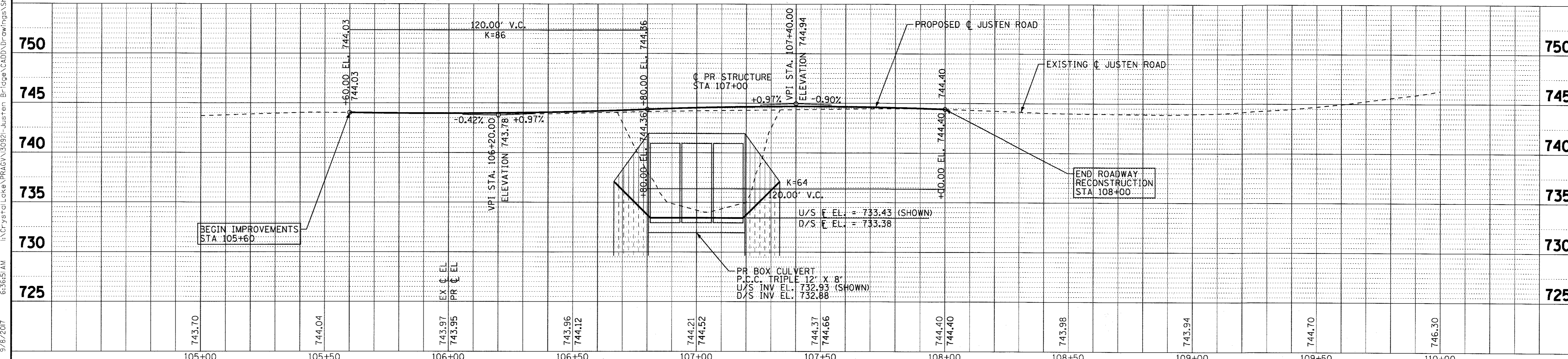
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- BORING LOGS:**
- BORING C-101, STATION 106+78, 7' RT
  - BORING C-102, STATION 107+22, 6' LT
  - BORING B-1, STATION 106+68, 6' LT
  - BORING B-2, STATION 107+32, 5' RT
  - BORING R-1, STATION 106+29, 5' RT
  - BORING R-2, STATION 107+75, 7' RT
  - BORING T-1, STATION 106+29, 14' LT
  - BORING T-2, STATION 106+40, 17' LT
  - BORING T-3, STATION 107+77, 17' RT
  - BORING T-4, STATION 107+75, 15' LT

**NOTE:**  
SEE STANDARD 630301 FOR SHOULDER WIDENING AT TRAFFIC BARRIER TERMINAL, TYPE 1 (SPECIAL).



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DESIGNED - CAC	REVISED -
DRAWN - CJC	REVISED -
CHECKED - JJF	REVISED -
DATE - 8-4-17	FILE - 130921SHT_PPI.dgn

**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

**PLAN AND PROFILE**

SCALE: H: 1"=20' V: 1"=5'	STA. TO STA.	MUN 0005	SECTION 13-00009-00-BR	COUNTY MCHENRY	TOTAL SHEETS 38	SHEET NO. 13
		FED. ROAD DIST. NO.		ILLINOIS FED. AID PROJECT		

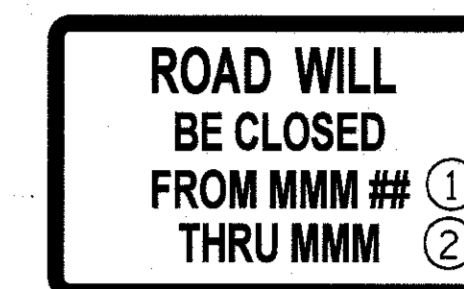
CONTRACT NO. 61E04

**MAINTENANCE OF TRAFFIC NOTES**

MAINTENANCE OF TRAFFIC NOTES:

1. REFER TO DISTRICT DETAIL TC-21 FOR SIGN SPACING, EXCEPT AS INDICATED ON THE SUGGESTED MAINTENANCE IF TRAFFIC.
2. THE CONTRACTOR SHALL NOTIFY IDOT AND THE VILLAGE OF PRAIRIE GROVE (815-455-1411) 10 DAYS IN ADVANCE OF OPERATION OF THE DETOUR ROUTE.
3. 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 DIRECTED BY THE ENGINEER. THIS SHALL BE INCLUDED IN THE COST OF TRAFFIC CONTROL AND PROTECTION (SPECIAL).
4. EROSION AND SEDIMENT CONTROLS SHALL BE INSTALLED PRIOR TO START OF CONSTRUCTION WITH CONTINUED MAINTENANCE FOR THE DURATION OF CONSTRUCTION, SEE EROSION CONTROL SHEETS FOR ADDITIONAL INFORMATION.
5. FULL ROADWAY CLOSURE AT THE BRIDGE IS PERMITTED DURING CONSTRUCTION. THE CONTRACTOR SHALL MAINTAIN EMERGENCY VEHICLE AND LOCAL TRAFFIC DURING THE CONSTRUCTION. THE COST FOR MAINTAINING ACCESS ON JUSTEN ROAD SHALL BE INCLUDED IN THE COST OF TRAFFIC CONTROL AND PROTECTION (SPECIAL).
6. THE CONTRACTOR SHALL PROVIDE TEMPORARY ACCESS TO ALL ENTRANCES DURING THE CONSTRUCTION OF THE BRIDGE.
7. DETOUR SIGN ASSEMBLIES SHALL BE M4-9 SERIES.
8. ALL SIGNS, BARRICADES, SIGN'S LIGHTS & FLAGS SHALL BE IN ACCORDANCE WITH THOSE INDICATED IN THE TRAFFIC CONTROL STANDARDS OF THE MUTCD & THE STANDARD SPECIFICATIONS.

ARTERIAL ROAD INFORMATION SIGN  
FOR ROADS TO BE FULLY CLOSED  
AND DETOURED  
SHALL BE PAID FOR AS TEMPORARY INFORMATION SIGNING.  
ONE SIGN ASSEMBLY EQUALS 37.3 SQ. FT.



"HIGHWAY C" FONT

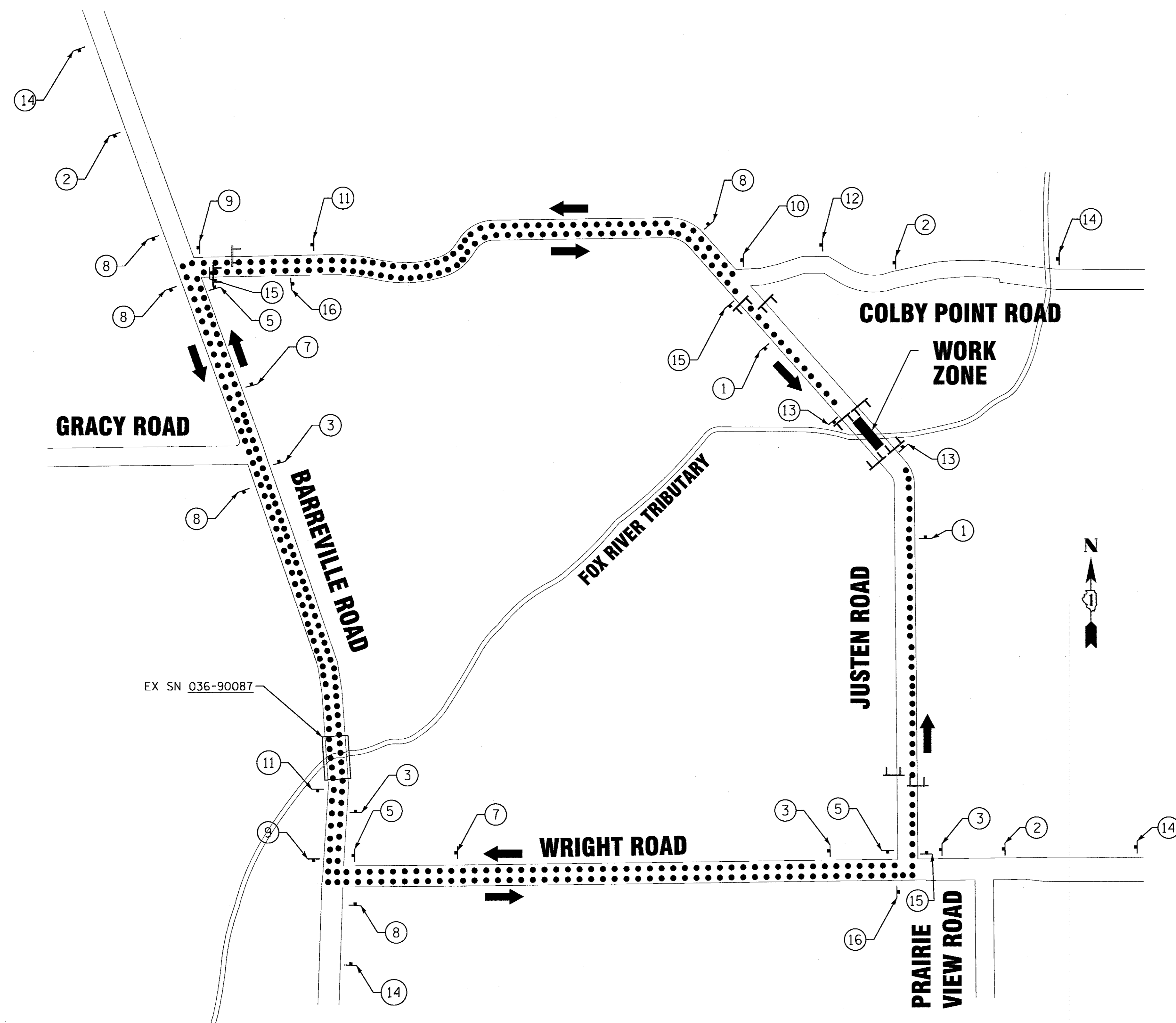
- ① OVERLAY PANEL ① TO CONTAIN STARTING DATE OF FULL CLOSURE AND DETOUR IMPLEMENTATION. (i.e. "FROM APR 2")
- ② OVERLAY PANEL ② TO CONTAIN ENDING MONTH OF FULL CLOSURE & DETOUR (i.e. "THRU JULY") OMIT THE DATE ON PANEL ②; MONTH ONLY.

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.

**TEMPORARY INFORMATION SIGN DETAIL**

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	DESIGNED - CAC	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	SUGGESTED MAINTENANCE OF TRAFFIC NOTES	MUN	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.	
	DRAWN - CJC	REVISED -			0005	13-00009-00-BR	MCHENRY	38	14	
	CHECKED - JJF	REVISED -			CONTRACT NO. 61E04					
	DATE - 8-4-17	FILE - 130921SHT_MOT-Notes.dgn			SCALE: NONE	STA.	TO STA.	FED. ROAD DIST. NO.	ILLINOIS FED. AID PROJECT	



**LEGEND**

- TRAFFIC DIRECTION**
- DETOUR ROUTE**
- SIGN**
- TYPE III BARRICADE W/FLASHING LIGHTS**
- WORK ZONE**

**VICINITY MAP**  
NO SCALE

**SIGN LEGEND**

- FLASHING WARNING LIGHT (TYP)
- ROAD CLOSED AHEAD W20-3-4848  
Justen Road MIN. 5" BLACK LETTERS ON ORANGE BACKGROUND (1)
- ROAD CLOSED 500 FT W20-3-4848  
Justen Road MIN. 5" BLACK LETTERS ON ORANGE BACKGROUND (1A)
- DETOUR AHEAD W20-2-4848  
Justen Road MIN. 5" BLACK LETTERS ON ORANGE BACKGROUND (2)
- NORTH Justen Road DETOUR ↑ (3)
- NORTH Justen Road DETOUR ← (4)
- NORTH Justen Road DETOUR → (5)
- SOUTH Justen Road DETOUR ↑ (6)
- SOUTH Justen Road DETOUR ← (7)
- SOUTH Justen Road DETOUR → (8)
- SOUTH Justen Road DETOUR ← (9)
- SOUTH Justen Road DETOUR → (10)
- ROAD CLOSED R11-2-4830 (13)
- Justen Road CLOSED AT BRIDGE FOLLOW DETOUR (60"X30") 6" BLACK LETTERS (14)
- BRIDGE OUT LOCAL TRAFFIC ONLY R11-36 60" x 30" (15)
- END DETOUR Justen Road M4-8A 24" X 18" (16)

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 LICENSE NO. - JH-0022, EXPIRES 12/31/2017  
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DESIGNED - CAC	REVISED -
DRAWN - CJC	REVISED -
CHECKED - JJF	REVISED -
DATE - 8-4-17	FILE - 130921SHT_MOT-DeTour.dgn

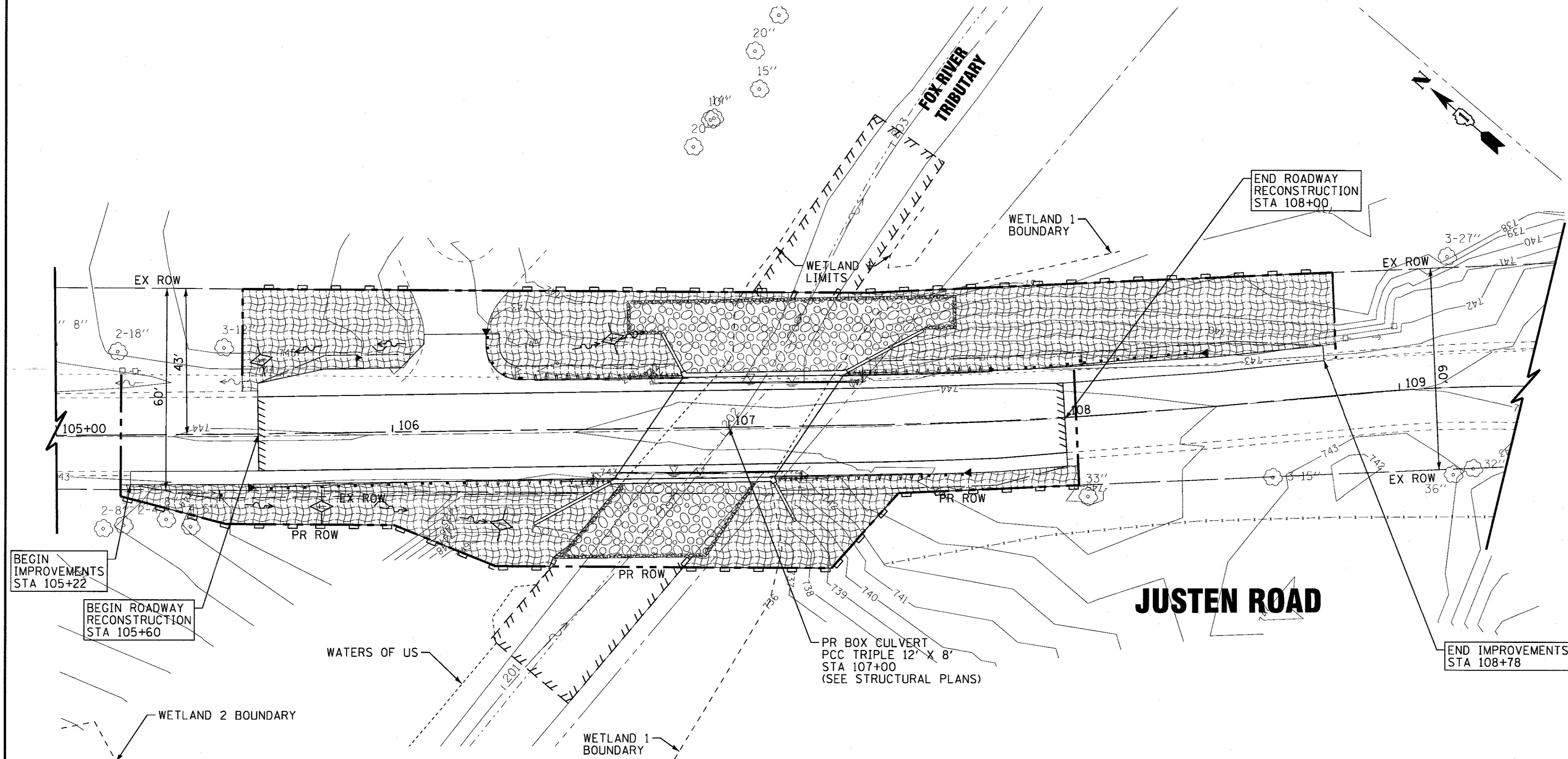
**STATE OF ILLINOIS**  
**DEPARTMENT OF TRANSPORTATION**

**SUGGESTED MAINTENANCE OF TRAFFIC DETOUR**

SCALE:	STA.	TO STA.
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MUN	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
0005	13-00009-00-BR	MCHENRY	38	15
CONTRACT NO. 61E04				
FED. ROAD DIST. NO. [ILLINOIS] FED. AID PROJECT				





**MAINTENANCE SCHEDULE**

1. SILT FENCE - AT A MINIMUM, THE CONTRACTOR SHALL INSPECT ALL SILT FENCE WEEKLY OR AFTER EACH ONE-HALF INCH OR GREATER RAINFALL EVENT. ANY REQUIRED REPAIRS SHALL BE MADE BY THE CONTRACTOR TO KEEP THE SILT FENCE FUNCTIONAL AS DESIGNED.
2. EROSION 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.
3. THE EROSION CONTROL QUANTITIES PROVIDED IN THE PLANS ARE APPROXIMATE. THE ACTUAL NEED FOR QUANTITIES WILL BE DETERMINED IN THE FIELD BY THE ENGINEER.

**LEGEND**

- PERIMETER EROSION BARRIER
- TEMPORARY EROSION CONTROL SEEDING WITH TEMPORARY EROSION CONTROL BLANKET
- STONE RIPRAP, CLASS A4 WITH FILTER FABRIC MIN. THICKNESS = 22 INCHES
- TEMPORARY DITCH CHECKS

**GENERAL SOIL EROSION AND SEDIMENT CONTROL NOTES**

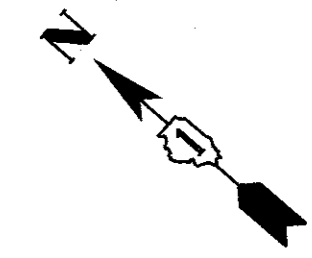
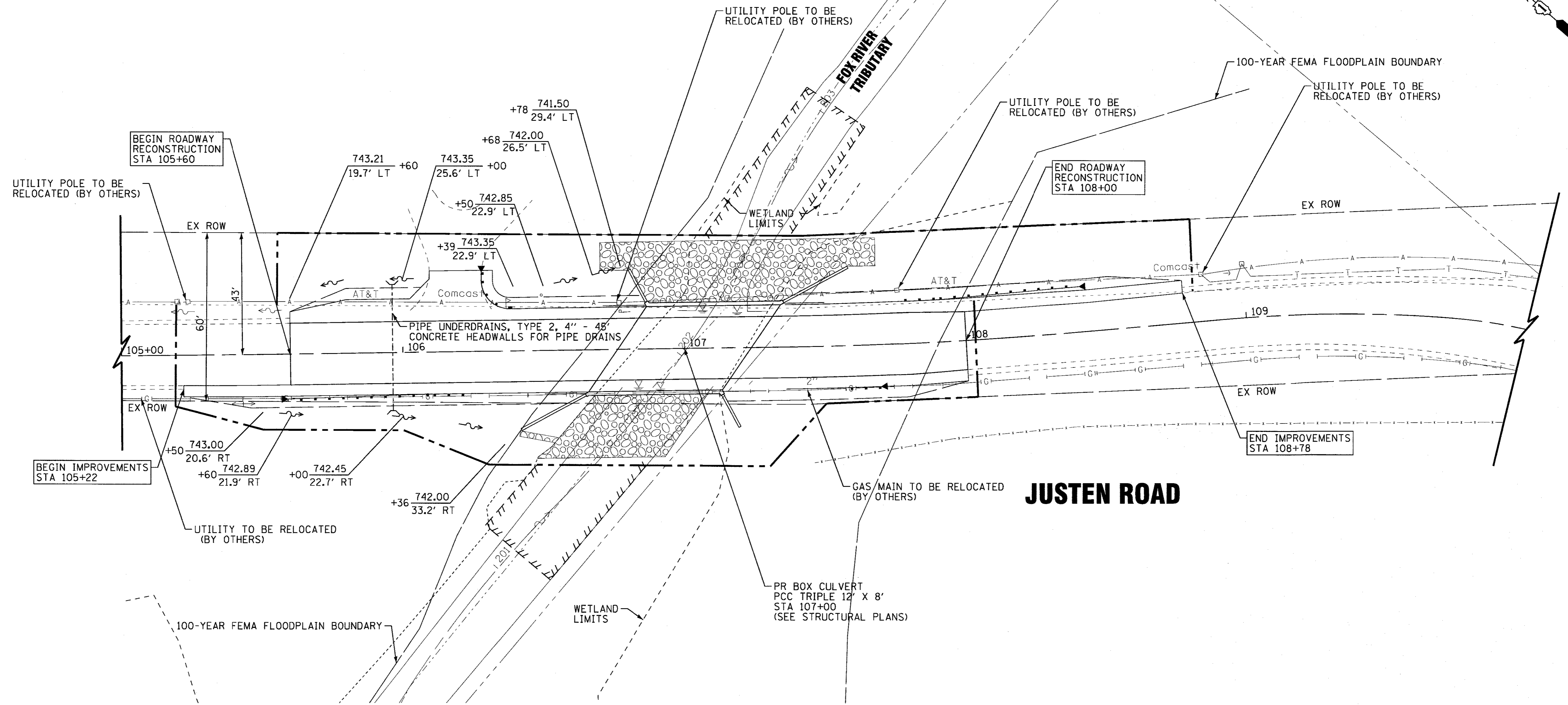
1. SOIL DISTURBANCE SHALL BE CONDUCTED IN SUCH A MANNER AS TO MINIMIZE EROSION. SOIL STABILIZATION MEASURES SHALL CONSIDER THE TIME OF YEAR, SITE CONDITIONS AND THE USE OF TEMPORARY OR PERMANENT MEASURES.
2. SOIL EROSION AND SEDIMENT CONTROL FEATURES SHALL BE CONSTRUCTED PRIOR TO THE COMMENCEMENT OF HYDROLOGIC DISTURBANCE OF UPLAND AREAS.
3. DISTURBED AREAS SHALL BE STABILIZED WITH TEMPORARY OR PERMANENT MEASURES IMMEDIATELY AFTER DISTURBANCE, OR REDISTURBANCE.
4. AREAS OR EMBANKMENTS HAVING SLOPES GREATER THAN OR EQUAL TO 3H:1V, AND APPROVED BY THE ENFORCEMENT OFFICER, SHALL BE STABILIZED WITH MAT OR BLANKET IN COMBINATION WITH SEEDING.
5. ALL TEMPORARY EROSION AND SEDIMENT CONTROL MEASURES SHALL BE REMOVED WITHIN 30 DAYS AFTER FINAL SITE STABILIZATION IS ACHIEVED OR AFTER THE TEMPORARY MEASURES ARE NO LONGER NEEDED.
6. 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.
7. IF DEWATERING SERVICES ARE USED, ADJOINING PROPERTIES AND DISCHARGE LOCATIONS SHALL BE PROTECTED FROM EROSION. DISCHARGES SHALL BE ROUTED THROUGH AN EFFECTIVE SEDIMENT CONTROL MEASURE (e.g. SEDIMENT TRAP, SEDIMENT BASIN, OR OTHER APPROPRIATE MEASURE. DEWATERING DIRECTLY INTO STREAMS, WETLANDS, FIELD TILES OR STORM WATER STRUCTURES IS PROHIBITED.
8. 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, LAKE COUNTY SMC, ENGINEER, OR LOCAL AGENCY.
9. 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.
10. THE CONTRACTOR SHALL COMPLY WITH REQUIREMENTS FROM THE U.S. ARMY CORPS OF ENGINEERS, MCHENRY-LAKE COUNTY SOIL AND WATER CONSERVATION DISTRICT, AND VILLAGE OF PRAIRIE GROVE.
11. UNLESS OTHERWISE INDICATED, ALL VEGETATIVE AND STRUCTURAL EROSION AND SEDIMENT CONTROL PRACTICES SHALL BE CONSTRUCTED ACCORDING TO MINIMUM STANDARDS AND SPECIFICATIONS IN THE ILLINOIS URBAN MANUAL.
12. ALL EROSION CONTROL MEASURES MUST BE INSPECTED WEEKLY AND WITHIN 24 HOURS AFTER EACH RAIN EVENT RESULTING IN RUNOFF FROM THE SITE.
13. WORK IN THE WATERWAY SHOULD BE TIMED TO TAKE PLACE DURING LOW OR NO-FLOW CONDITIONS.
14. WORK MAY NOT BE PERFORMED IN THE WATER, EXCEPT FOR THE PLACEMENT OF MATERIALS NECESSARY FOR THE CONSTRUCTION OF COFFERDAMS. ALL MATERIALS FOR COFFERDAMS AND ANY FILLS USED MUST BE NON-ERODABLE. 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.

15. 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.
16. DEWATERING MEASURES SHALL COMPLY WITH THE ILLINOIS URBAN MANUAL. DURING DEWATERING OF THE COFFERED AREA, THE WATER SHALL BE FILTERED TO REMOVE SEDIMENT PRIOR TO DISCHARGE TO THE STREAM. POSSIBLE OPTIONS FOR SEDIMENT REMOVAL INCLUDE BAFFLE SYSTEMS, ANIONIC POLYMERS, DEWATERING BAGS, OR OTHER APPROPRIATE METHODS. FILTRATION AREA SHALL BE PLACED ON A STABILIZED AREA OR DISCHARGE TO AN ENERGY DISSIPATING SURFACE PRIOR TO BEING RE-INTRODUCED TO DOWNSTREAM WATERWAY. DISCHARGE WATER IS CONSIDERED CLEAN IF IT DOES NOT RESULT IN A VISUALLY IDENTIFIABLE DEGRADATION OF WATER CLARITY. THE DISCHARGE FROM THE DEWATERING DEVICE SHALL NOT CAUSE EROSION. ANY TREATMENT REQUIRED BY THE MCHENRY COUNTY SMC IS THE CONTRACTORS RESPONSIBILITY AND NO EXTRA COSTS WILL BE PAID.
17. 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.
18. EXCEPT WHERE SHOWN OTHERWISE ON THE PLANS, THE SIDE SLOPES MUST BE RESEDED AND STABILIZED IMMEDIATELY AFTER FINAL GRADING WITH AN APPROPRIATE EROSION CONTROL BLANKET PRIOR TO ACCEPTING FLOWS. THE BOTTOM OF THE CHANNEL MUST BE BROUGHT BACK TO ITS ORIGINAL GRADE AND STABLE ENOUGH TO ACCEPT FLOWS.
19. 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.
20. STOCKPILES OF SOIL AND OTHER BUILDING MATERIALS TO REMAIN IN PLACE FOR MORE THAN THREE DAYS SHALL BE FURNISHED WITH EROSION AND SEDIMENT CONTROL MEASURES IN ACCORDANCE WITH THE ILLINOIS URBAN MANUAL.
21. CONCRETE WASHOUT FACILITIES SHALL BE INSTALLED, OPERATED AND MAINTAINED IN ACCORDANCE WITH THE ILLINOIS URBAN MANUAL.
22. ALL ADJACENT ROADWAYS MUST BE KEPT CLEAR OF DEBRIS, INSPECTED DAILY AND CLEANED WHEN NECESSARY.
23. A COPY OF THE APPROVED EROSION AND SEDIMENT CONTROL PLAN SHALL BE MAINTAINED ON THE SITE AT ALL TIMES.
24. FINAL ACCEPTANCE OF PROJECT WILL BE CONTINGENT ON RECORD DRAWING APPROVAL BY THE ENGINEER.
25. IT IS THE RESPONSIBILITY OF THE GENERAL CONTRACTOR TO INFORM ANY SUB-CONTRACTOR(S) WHO MAY PERFORM WORK ON THIS PROJECT, OF THE REQUIREMENTS IN IMPLEMENTING AND MAINTAINING THESE EROSION CONTROL PLANS, PERMITS, AND ASSURE COMPLIANCE WITH ALL APPLICABLE LOCAL, STATE AND FEDERAL REGULATIONS.
26. THE CONTRACTOR SHALL PROVIDE ADEQUATE RECEPTACLES FOR THE DEPOSITION OF ALL CONSTRUCTION MATERIAL DEBRIS GENERATED DURING THE DEVELOPMENT PROCESS. THE CONTRACTOR SHALL NOT CAUSE OR PERMIT THE DUMPING, DEPOSITING, DROPPING, THROWING, DISCARDING OR LEAVING OF CONSTRUCTION MATERIAL DEBRIS UPON OR INTO THE DEVELOPMENT SITE, CHANNEL, WATERS OF THE U.S. OR ISOLATED WATERS OF LAKE COUNTY. THE CONTRACTOR SHALL MAINTAIN THE DEVELOPMENT SITE FREE OF CONSTRUCTION MATERIAL DEBRIS.
27. THIS PROJECT REQUIRES ARMY CORPS OF ENGINEERS (USACE) 404 PERMIT THAT WILL BE SECURED BY THE VILLAGE, AS A CONDITION OF THIS PERMIT. THE CONTRACTOR WILL NEED TO SUBMIT AN IN-STREAM WORK PLAN TO THE VILLAGE AND MCHENRY COUNTY SMC FOR APPROVAL. GUIDELINES ON ACCEPTABLE IN-STREAM WORK TECHNIQUES CAN BE FOUND ON THE USACE WEBSITE. THE USAGE 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 CONTRACT UNIT PRICE FOR THE WORK FOR WHICH IT IS REQUIRED AND NO ADDITIONAL COMPENSATION WILL BE ALLOWED.

<b>BAXTER &amp; WOODMAN</b> Consulting Engineers	DESIGNED - CAC	REVISED -
	DRAWN - CJC	REVISED -
	CHECKED - JJF	REVISED -
	DATE - 8-4-17	FILE - 130921SHT_ERI.dgn

**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

<b>EROSION CONTROL PLAN</b>		MUN	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
SCALE: 1" = 20'	STA. TO STA.	0005	13-00009-00-BR	MCHENRY	38	16
		CONTRACT NO. 61E04				
		FED. ROAD DIST. NO. ILLINOIS/FED. AID PROJECT				



<b>BAXTER &amp; WOODMAN</b> Consulting Engineers	DESIGNED - CAC	REVISED -
	DRAWN - CJC	REVISED -
	CHECKED - JJF	REVISED -
	DATE - 8-4-17	FILE - 130921SHT_DU1.dgn

**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

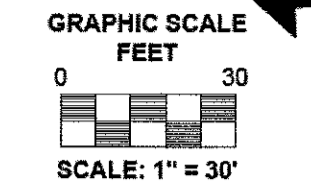
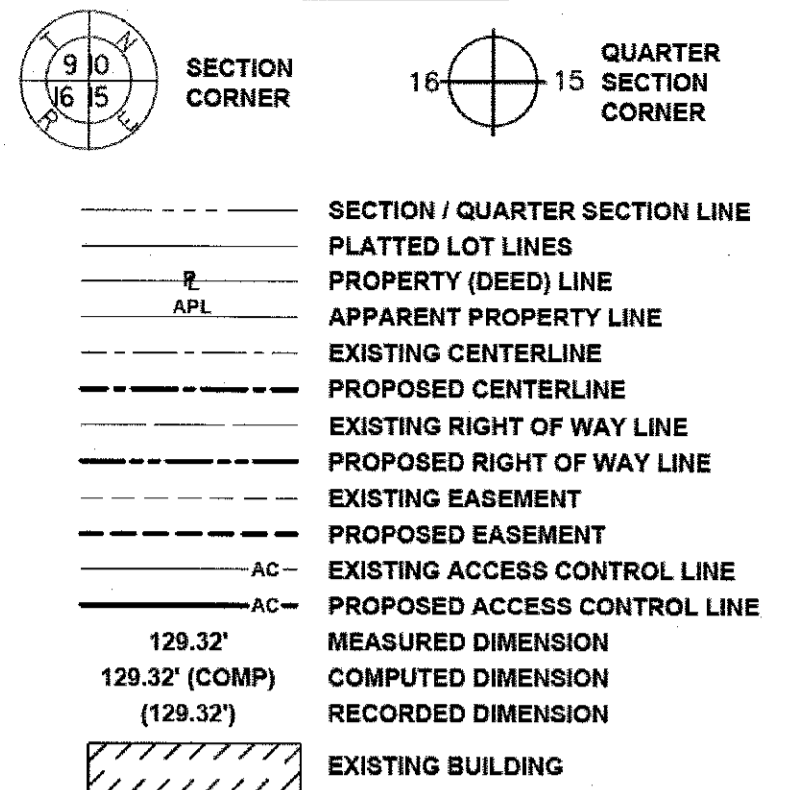
<b>DRAINAGE AND UTILITY PLAN</b>	
SCALE: 1" = 20'	STA. TO STA.

MUN	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
0005	13-00009-00-BR	MCHENRY	38	17
CONTRACT NO. 61E04				
FED. ROAD DIST. NO. ILLINOIS FED. AID PROJECT				

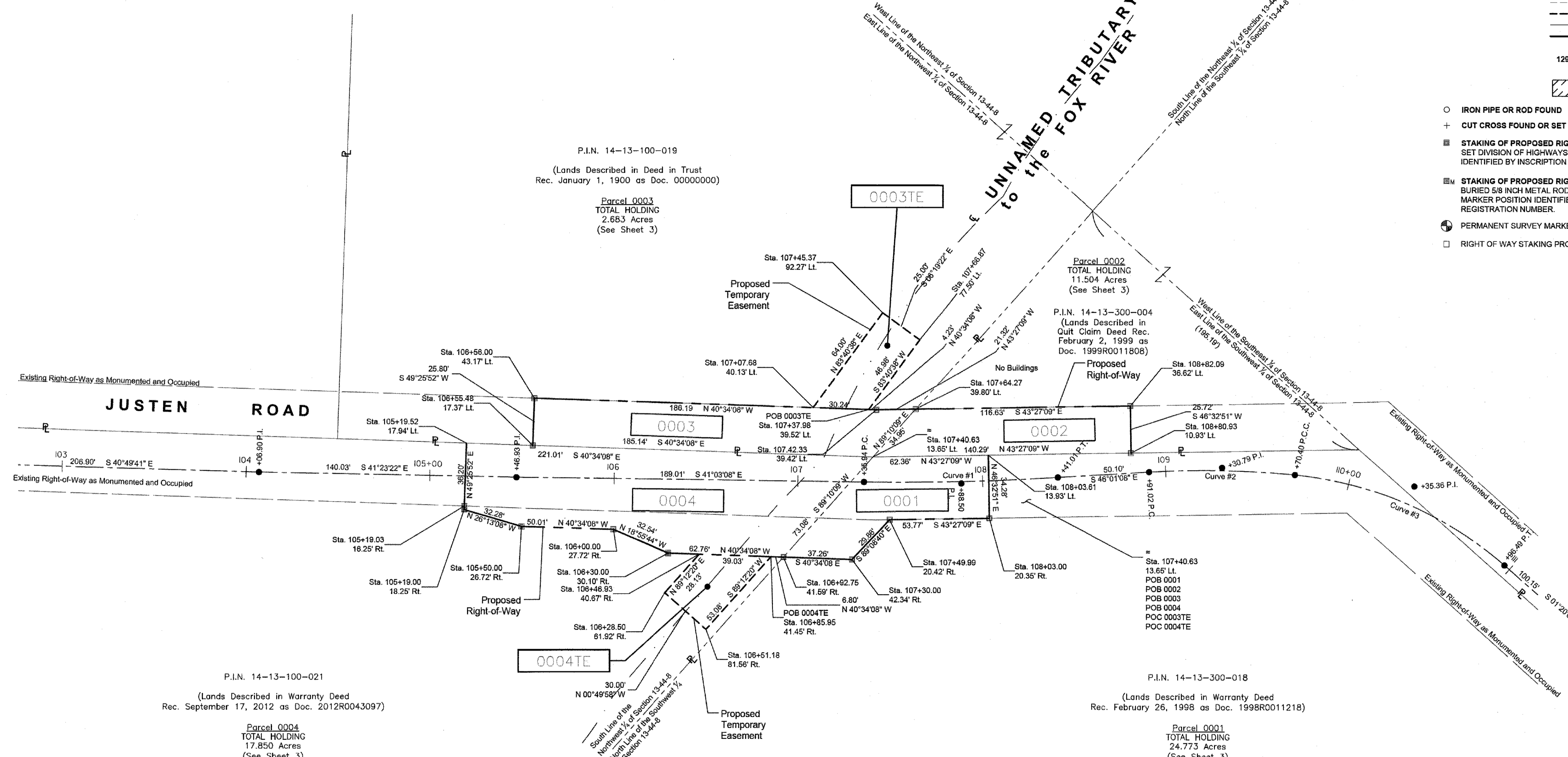


PART OF SECTION 13, TOWNSHIP 44 NORTH, RANGE 8, EAST OF THIRD PRINCIPAL MERIDIAN, IN MCHENRY COUNTY, ILLINOIS

LEGEND



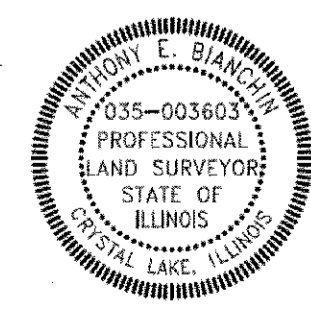
Existing & Proposed $\bar{c}$ Justen Road Curve #1	Existing & Proposed $\bar{c}$ Justen Road Curve #2	Existing & Proposed $\bar{c}$ Justen Road Curve #3
P.I. = Sta. 107+88.50	P.I. = Sta. 109+30.79	P.I. = Sta. 110+35.56
$\Delta$ = 4'18"00"	$\Delta$ = 9'05"46"	$\Delta$ = 35'35"21"
R = 1,400.00'	R = 500.00'	R = 203.00'
T = 52.56'	T = 39.77'	T = 65.15'
L = 105.07'	L = 79.38'	L = 126.09'
E = 0.99	E = 1.58	E = 10.20
P.C. = Sta. 107+35.94	P.C. = Sta. 108+91.02	P.C. = Sta. 109+70.40
P.T. = Sta. 108+41.01	P.T. = Sta. 109+70.40	P.T. = Sta. 110+96.49



- 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 0.999975.

STATE OF ILLINOIS )  
 COUNTY OF MCHENRY )  
 THIS IS TO CERTIFY THAT I, ANTHONY E. BIANCHIN, AN ILLINOIS PROFESSIONAL LAND SURVEYOR, HAVE SURVEYED THE PLAT OF HIGHWAYS SHOWN HEREON IN SECTION 13, TOWNSHIP 44 NORTH, RANGE 8, 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 20TH DAY OF OCTOBER, 2016 A.D.  
**DRAFT**  
 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.



PARCEL NUMBER	TOTAL HOLDING ACRES	PART TAKEN ACRES	AREA IN EXISTING R.O.W. ACRES	REMAINDER AREA ACRES	EASEMENT AREA		PARCEL INDEX NUMBER
					ACRES	SQUARE FEET	
0001	24.773	0.080	0.061	24.693	-	-	14-13-300-018
0002	11.504	0.076	0.076	11.428	-	-	14-13-300-004
0003 0003TE	2.683	0.116	0.116	2.567	0.032	-	14-13-100-019
0004 0004TE	17.850	0.226	0.162	17.624	0.028	-	14-13-100-021

**"FOR INFORMATION ONLY"**  
 REVISION DATE: 10-20-2016 REVISION MADE BY: AEB

**BAXTER & WOODMAN**  
 Consulting Engineers  
 8578 RIDGEFIELD ROAD • CRYSTAL LAKE, IL 60012  
 PHONE: 815-459-1260 • FAX: 815-455-0450

**PLAT OF HIGHWAYS**  
 STATE OF ILLINOIS  
 DEPARTMENT OF TRANSPORTATION  
**JUSTEN ROAD**  
 LIMITS : over Unnamed Tributary to the Fox River COUNTY : McHenry  
 SECTION : 13-00009-00-BR TO STA. 111+00 JOB NO. : R-91-021-16  
 STA. 103+00 TO STA. 111+00  
 SCALE : 1" = 30' SHEET 2 OF 3 SHEETS  
**BUREAU OF LAND ACQUISITION**  
 201 WEST CENTER COURT  
 SCHAUMBURG, ILLINOIS 60196

DESIGNED - CAC	REVISED -
DRAWN - CJC	REVISED -
CHECKED - JJF	REVISED -
DATE - 8-4-17	FILE - 130921SHT_Plats.dgn

STATE OF ILLINOIS  
 DEPARTMENT OF TRANSPORTATION

PLAT OF HIGHWAYS		MUN	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
SCALE: NONE	STA. TO STA.	0005	13-00009-00-BR	MCHENRY	38	18
		CONTRACT NO. 61E04				
		FED. ROAD DIST. NO. ILLINOIS FED. AID PROJECT				

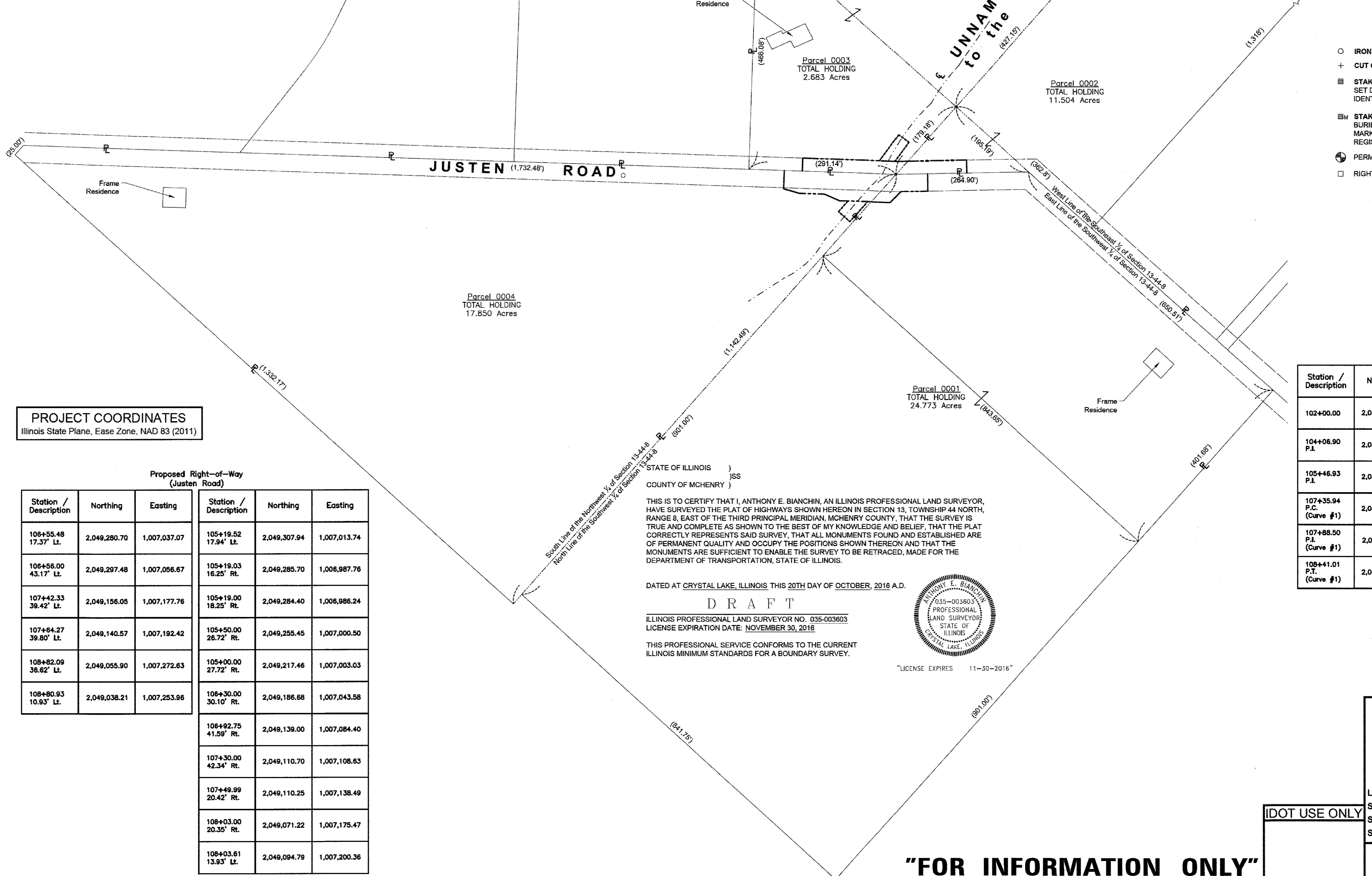
CRYSTAL LAKE, ILLINOIS 60012  
 BAXTER & WOODMAN, INC.  
 STATE OF ILLINOIS - PROFESSIONAL DESIGN FIRM  
 LICENSE NO. 035-003603 - EXPIRES 11/30/2016  
 9/8/2017  
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 Plotter: 8/12/2016 @ 9:03 AM By: 5544EB  
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PART OF SECTION 13, TOWNSHIP 44 NORTH, RANGE 8, EAST OF THIRD PRINCIPAL MERIDIAN, IN MCHENRY COUNTY, ILLINOIS

Proposed Temporary Easement (Justen Road)

Station / Description	Northing	Easting	Station / Description	Northing	Easting
107+07.68 40.13' Lt.	2,049,173.83	1,007,055.48	106+46.93 40.67' Rt.	2,049,173.82	1,007,054.59
107+45.37 92.27' Lt.	2,049,173.43	1,007,026.47	106+28.50 61.92' Rt.	2,049,189.28	1,007,218.95
107+66.87 77.50' Lt.	2,049,143.43	1,007,026.91	106+51.18 81.56' Rt.	2,049,164.43	1,007,221.70
107+37.98 39.52' Lt.	2,049,144.19	1,007,081.90	106+85.95 41.45' Rt.	2,049,144.17	1,007,079.98



**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
- 129.32' (COMP)
- 129.32' (129.32')
- RECORDED DIMENSION
- EXISTING BUILDING
- IRON PIPE OR ROD FOUND
- CUT CROSS FOUND OR SET
- STAKING OF PROPOSED RIGHT OF WAY
- STAKING OF PROPOSED RIGHT OF WAY IN CULTIVATED AREAS
- PERMANENT SURVEY MARKER, I.D.O.T. STANDARD 2135
- RIGHT OF WAY STAKING PROPOSED TO BE SET
- "MAG" NAIL SET
- 5/8" REBAR SET

**PROJECT COORDINATES**  
Illinois State Plane, East Zone, NAD 83 (2011)

Proposed Right-of-Way (Justen Road)

Station / Description	Northing	Easting	Station / Description	Northing	Easting
106+55.48 17.37' Lt.	2,049,280.70	1,007,037.07	105+19.52 17.94' Lt.	2,049,307.94	1,007,013.74
106+56.00 43.17' Lt.	2,049,297.48	1,007,056.67	105+19.03 16.25' Rt.	2,049,285.70	1,006,987.76
107+42.33 39.42' Lt.	2,049,156.05	1,007,177.76	105+19.00 18.25' Rt.	2,049,284.40	1,006,986.24
107+64.27 39.80' Lt.	2,049,140.57	1,007,192.42	105+50.00 26.72' Rt.	2,049,255.45	1,007,000.50
108+82.09 36.62' Lt.	2,049,055.90	1,007,272.83	105+00.00 27.72' Rt.	2,049,217.46	1,007,003.03
108+80.93 10.93' Lt.	2,049,038.21	1,007,253.96	106+30.00 30.10' Rt.	2,049,186.68	1,007,043.58
			106+92.75 41.59' Rt.	2,049,139.00	1,007,084.40
			107+30.00 42.34' Rt.	2,049,110.70	1,007,106.63
			107+49.99 20.42' Rt.	2,049,110.25	1,007,138.49
			108+03.00 20.35' Rt.	2,049,071.22	1,007,175.47
			108+03.61 13.93' Lt.	2,049,094.79	1,007,200.36

Centerline Alignment (Justen Road)

Station / Description	Northing	Easting	Station / Description	Northing	Easting
102+00.00	2,049,537.13	1,006,790.55	108+91.02 P.C. (Curve #2)	2,049,023.98	1,007,292.97
104+08.90 P.I.	2,049,380.58	1,006,925.82	109+30.79 P.I. (Curve #2)	2,048,996.36	1,007,281.59
105+46.93 P.I.	2,049,275.52	1,007,018.41	109+70.40 P.C.C. (Curve #2/#3)	2,048,964.56	1,007,305.48
107+35.94 P.C. (Curve #1)	2,049,134.44	1,007,144.19	110+35.56 P.I. (Curve #3)	2,048,912.47	1,007,344.62
107+88.50 P.I. (Curve #1)	2,049,095.21	1,007,179.16	110+96.49 P.T. (Curve #3)	2,048,847.34	1,007,346.14
108+41.01 P.T. (Curve #1)	2,049,058.77	1,007,216.92	111+96.65	2,048,747.21	1,007,348.47

STATE OF ILLINOIS )  
COUNTY OF MCHENRY )

THIS IS TO CERTIFY THAT I, ANTHONY E. BIANCHIN, AN ILLINOIS PROFESSIONAL LAND SURVEYOR, HAVE SURVEYED THE PLAT OF HIGHWAYS SHOWN HEREON IN SECTION 13, TOWNSHIP 44 NORTH, RANGE 8, 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 20TH DAY OF OCTOBER, 2016 A.D.

**DRAFT**

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. BIANCHIN  
035-003603  
PROFESSIONAL LAND SURVEYOR  
STATE OF ILLINOIS  
CRYSTAL LAKE, ILLINOIS

"LICENSE EXPIRES 11-30-2016"

**"FOR INFORMATION ONLY"**  
REVISION DATE: 10-20-2016 REVISION MADE BY: AEB

**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  
JUSTEN ROAD

LIMITS : over Unnamed Tributary to the Fox River COUNTY : McHenry  
SECTION : 13-00009-00-BR JOB NO. : R-91-021-16  
STA. - TO STA. -  
SCALE : 1" = 100' SHEET 3 OF 3 SHEETS

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

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 LICENSE NO. - 184-001121 - EXPIRES 4-30-13  
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 State of Illinois - Professional Design Firm  
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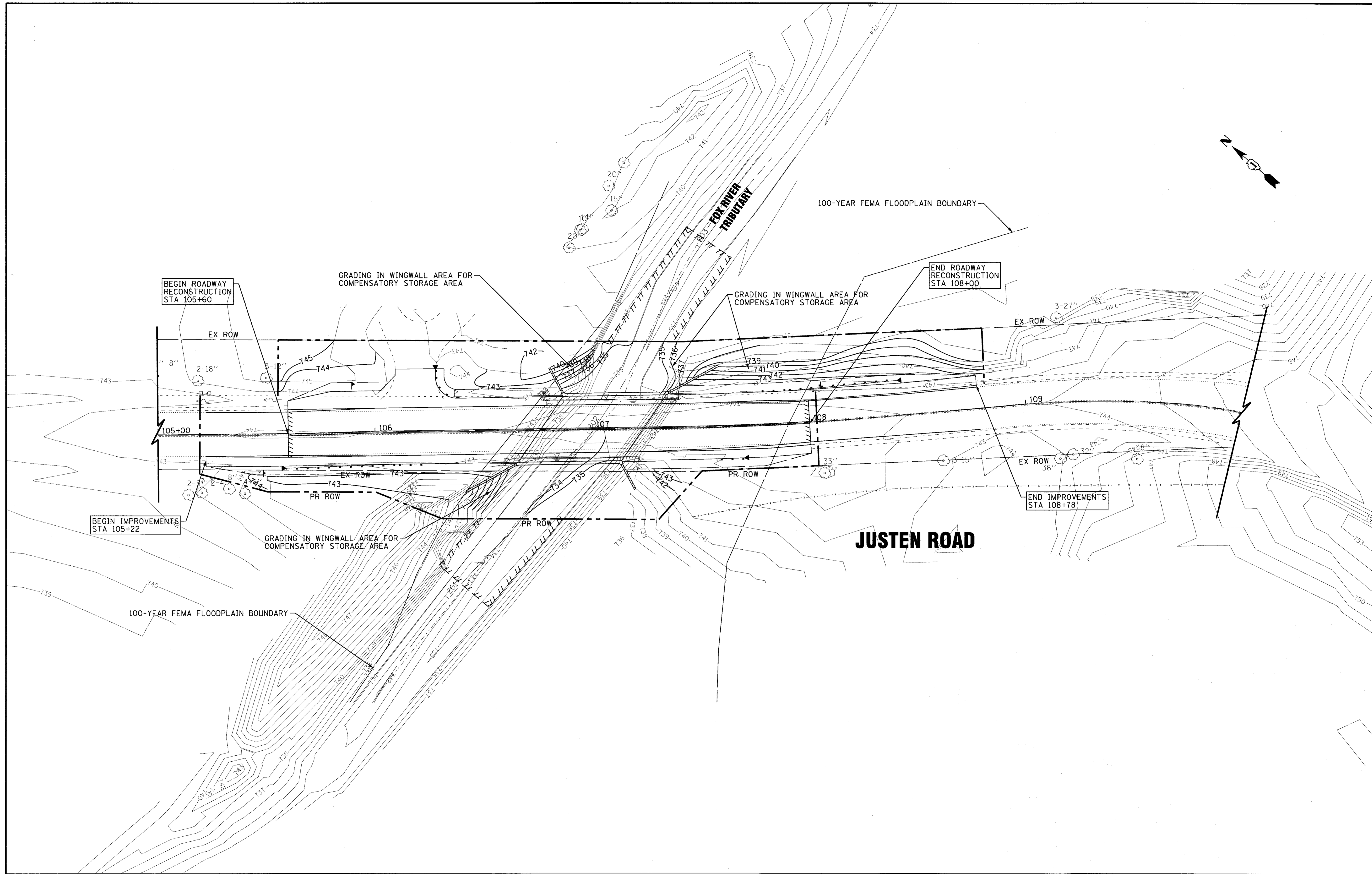
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DRAWN - CJC	REVISED -
CHECKED - JJF	REVISED -
DATE - 8-4-17	FILE - 130921SHT_Plats.dgn

STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION

PLAT OF HIGHWAYS

MUN	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
0005	13-00009-00-BR	MCHENRY	38	19
CONTRACT NO. 61E04				

SCALE: NONE STA. TO STA. FED. ROAD DIST. NO. ILLINOIS FED. AID PROJECT



<b>BAXTER &amp; WOODMAN</b> Consulting Engineers	DESIGNED - CAC	REVISED -
	DRAWN - CJC	REVISED -
	CHECKED - JJF	REVISED -
	DATE - 8-4-17	FILE - 130921SHT_GradingPlan.dgn

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

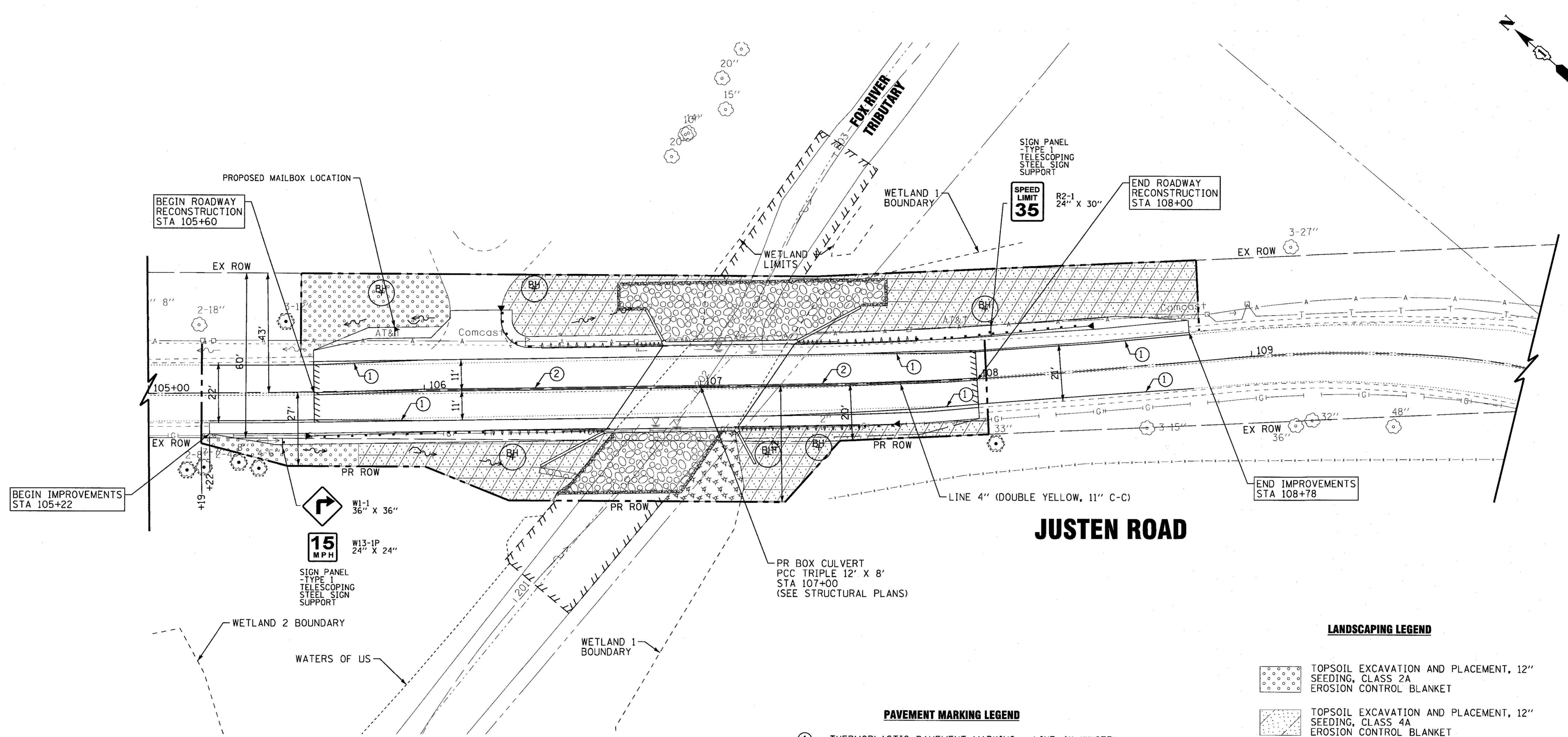
**GRADING PLAN**

SCALE: 1" = 20'

STA. \_\_\_\_\_ TO STA. \_\_\_\_\_

MUN	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
0005	13-00009-00-BR	MCHENRY	38	20
CONTRACT NO. 61E04				
FED. ROAD DIST. NO. [ILLINOIS] FED. AID PROJECT				





**JUSTEN ROAD**

- PAVEMENT MARKING LEGEND**
- ① THERMOPLASTIC PAVEMENT MARKING - LINE 4" (WHITE)
  - ② THERMOPLASTIC PAVEMENT MARKING - LINE 4" (DOUBLE YELLOW)

- LANDSCAPING LEGEND**
- TOPSOIL EXCAVATION AND PLACEMENT, 12" SEEDING, CLASS 2A EROSION CONTROL BLANKET
  - TOPSOIL EXCAVATION AND PLACEMENT, 12" SEEDING, CLASS 4A EROSION CONTROL BLANKET
  - TOPSOIL EXCAVATION AND PLACEMENT, 12" SEEDING, CLASS 4B EROSION CONTROL BLANKET
  - TREE TRUNK PROTECTION
  - PROPOSED TREES - BITTERNUT HICKORY (CARYA CORDIFORMIS), 2" CALIPER, BALLED AND BURLAPPED

NOTE:  
 THE LOCATION OF THE PROPOSED TREES ARE APPROXIMATE. FINAL TREE LOCATION SHALL BE DETERMINED AND APPROVED IN THE FIELD BY THE ENGINEER AS COORDINATED WITH THE CITY FORESTER.

<b>BAXTER &amp; WOODMAN</b> Consulting Engineers	DESIGNED - CAC	REVISED -
	DRAWN - CJC	REVISED -
	CHECKED - JJF	REVISED -
	DATE - 8-4-17	FILE - 130921SHT_PMI.dgn

**STATE OF ILLINOIS  
 DEPARTMENT OF TRANSPORTATION**

**PAVEMENT MARKING, SIGNING, AND LANDSCAPING PLAN**

SCALE: 1" = 20'      STA.      TO STA.

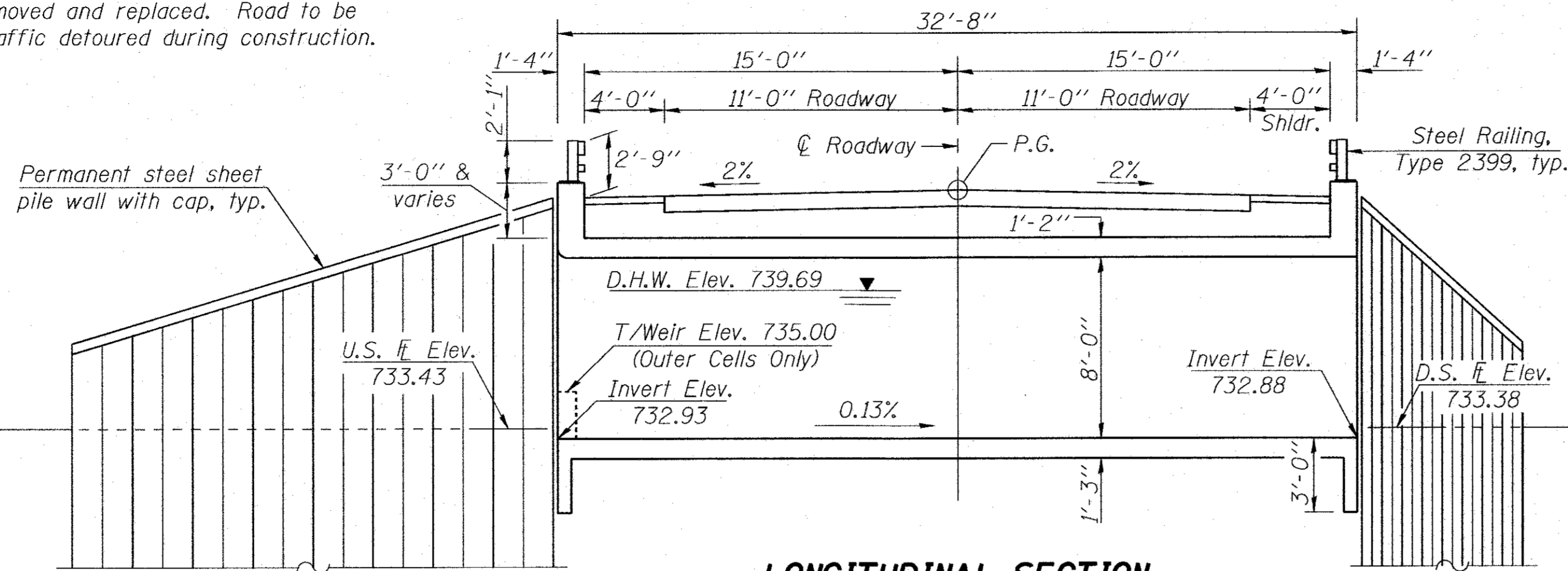
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0005	13-00009-00-BR	MCHENRY	38	21
CONTRACT NO. 61E04				
FED. ROAD DIST. NO.	ILLINOIS FED. AID PROJECT			



Benchmark: RR Spike in Power Pole approx. Sta. 107+75, 19' RI. Elev. 745.327

Existing Structure: S.N. 056-3108 was built in 1973 as a two-span precast concrete channel beam bridge on pile bent piers and open pile bent abutments. 64' back to back of abutments and 26.4' out to out width. Structure to be completely removed and replaced. Road to be closed and traffic detoured during construction.

No Salvage.



**LOADING HL-93**

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

**DESIGN SPECIFICATIONS**

2014 AASHTO LFRD Bridge Design Specifications, 7th Edition

**DESIGN STRESSES**

**FIELD UNITS**

$f'_c = 3,500$  psi  
 $f_y = 60,000$  psi (Reinforcement)  
 $f_y = 50,000$  psi - M202 Grade 50 (Perm Sheet Piling)

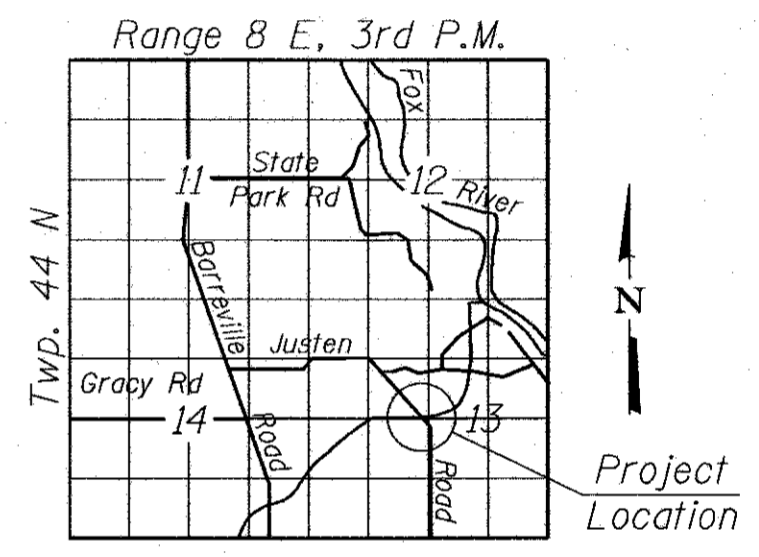
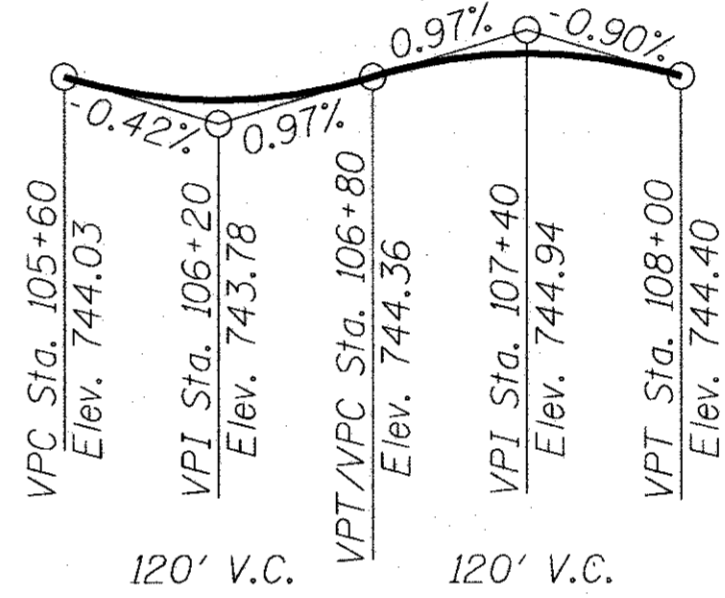
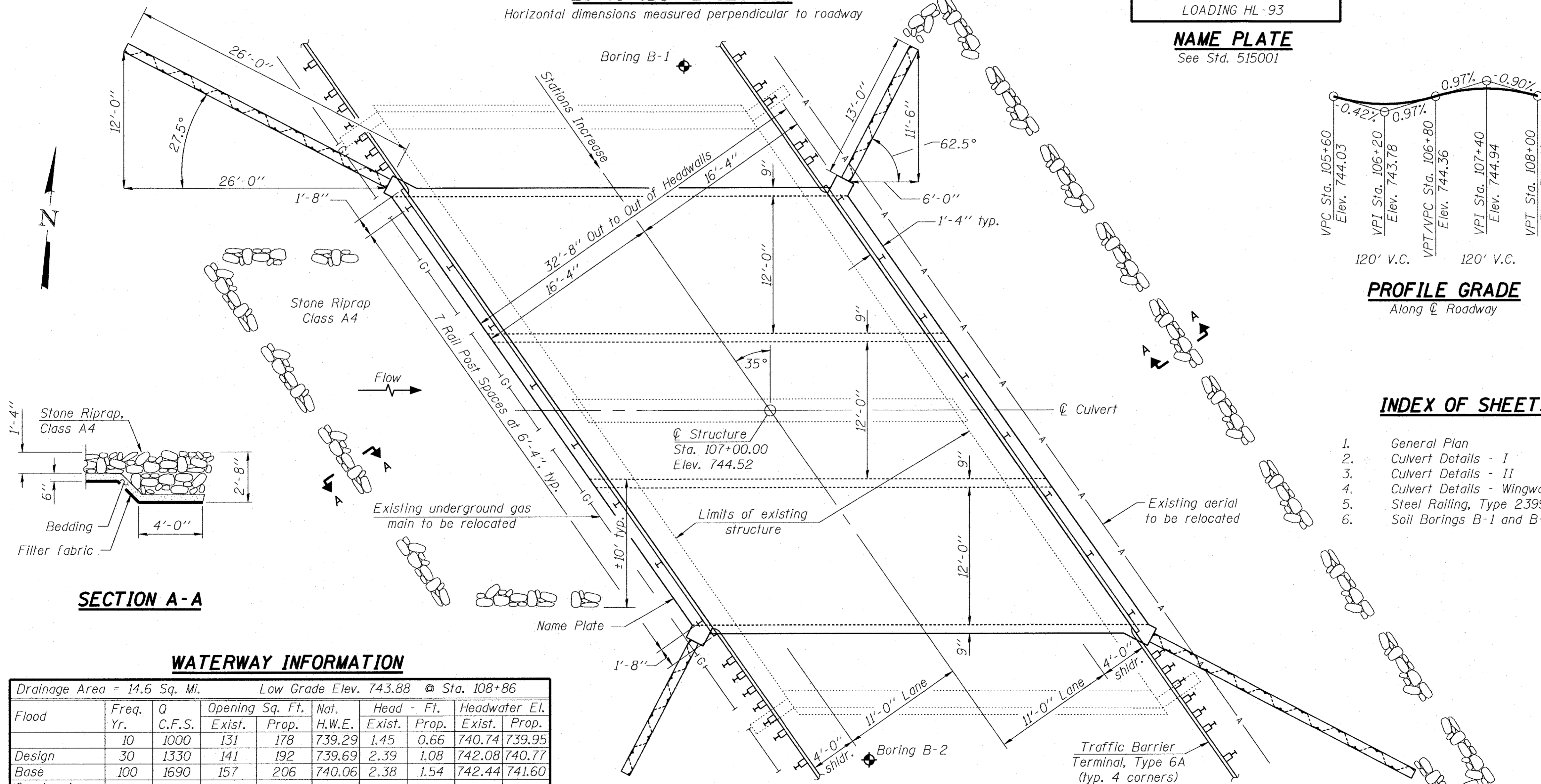
TRIBUTARY OF FOX RIVER  
BUILT 2018 BY  
VILLAGE OF PRAIRIE GROVE  
SEC. 13-00009-00-BR  
STA. 107+00  
STR. NO. 056-6009  
LOADING HL-93

**NAME PLATE**

See Std. 515001

**TOTAL BILL OF MATERIAL**

ITEM	UNIT	TOTAL
Rock Fill	Cu. Yd.	421
Stone Riprap, Class A4	Sq. Yd.	295
Filter Fabric	Sq. Yd.	295
Removal of Existing Structures	Each	1
Removal and Disposal of Unsuitable Material for Structures	Cu. Yd.	421
Protective Coat	Sq. Yd.	46
Reinforcement Bars	Pound	43,050
Reinforcement Bars, Epoxy Coated	Pound	2,630
Steel Railing, Type 2399	Foot	96
Name Plates	Each	1
Permanent Sheet Piling	Sq. Ft.	2,375
Concrete Box Culverts	Cu. Yd.	197.0
Membrane Waterproofing for Buried Structures	Sq. Yd.	180



**INDEX OF SHEETS**

1. General Plan
2. Culvert Details - I
3. Culvert Details - II
4. Culvert Details - Wingwalls
5. Steel Railing, Type 2399
6. Soil Borings B-1 and B-2

DATE: 9/1/17  
LICENSE EXPIRES 11/30/18

I certify that to the best of my knowledge, information and belief, this bridge design is structurally adequate for the design loading shown on the plans. The design is an economical one for the style of structure and complies with the requirements of the current AASHTO LFRD Bridge Design Specifications.

**GENERAL PLAN**  
**JUSTEN ROAD OVER**  
**TRIBUTARY OF FOX RIVER**  
**SECTION 13-00009-00-BR**  
**MCHENRY COUNTY**  
**STATION 107+00**  
**STRUCTURE NO. 056-6009**

**WATERWAY INFORMATION**

Drainage Area = 14.6 Sq. Mi. Low Grade Elev. 743.88 @ Sta. 108+86

Flood	Freq. Yr.	Q C.F.S.	Opening Sq. Ft.		Nai. H.W.E.	Head - Ft.		Headwater El.	
			Exist.	Prop.		Exist.	Prop.	Exist.	Prop.
1000	10	1000	131	178	739.29	1.45	0.66	740.74	739.95
Design	30	1330	141	192	739.69	2.39	1.08	742.08	740.77
Base	100	1690	157	206	740.06	2.38	1.54	742.44	741.60
Overtopping									
Max. Calc.	500	2170	181	221	740.49	2.89	2.46	743.38	742.95

2-Yr Flow = 527 CFS

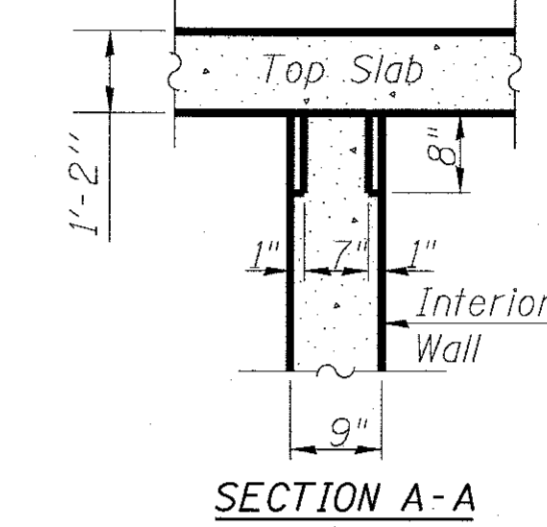
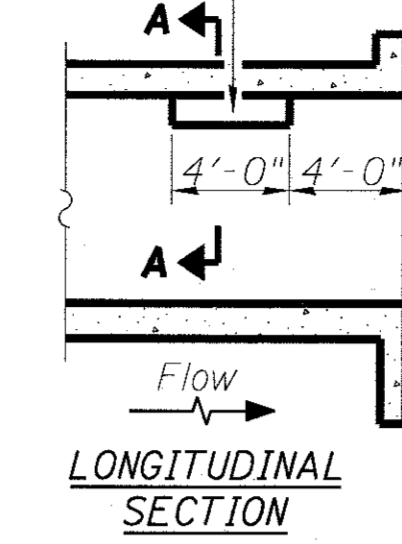
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 LICENSE NO. 184-00129 - EXPIRES 4/30/2017  
 10/20/17 AM 10/20/17 AM  
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**BILL OF MATERIAL**

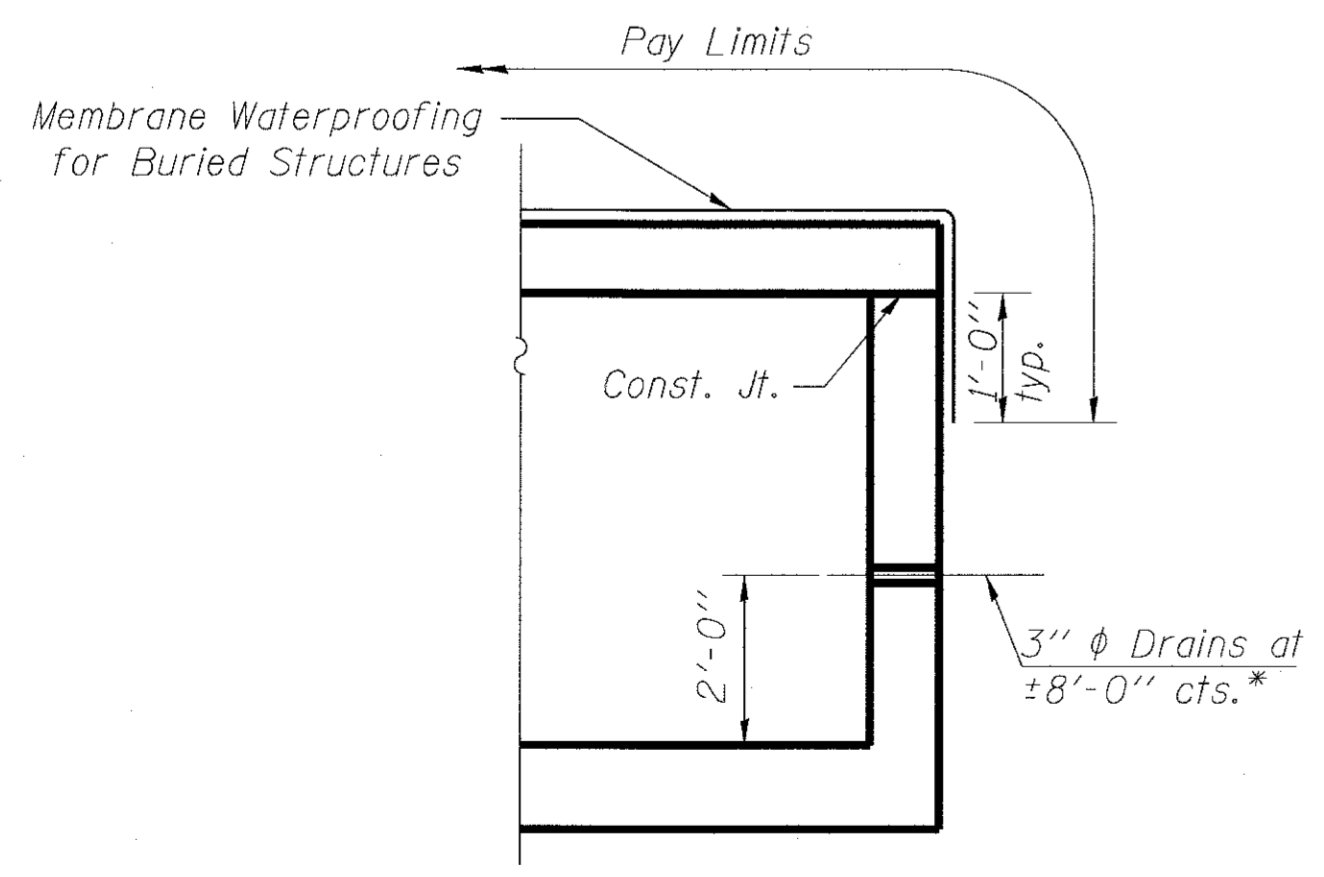
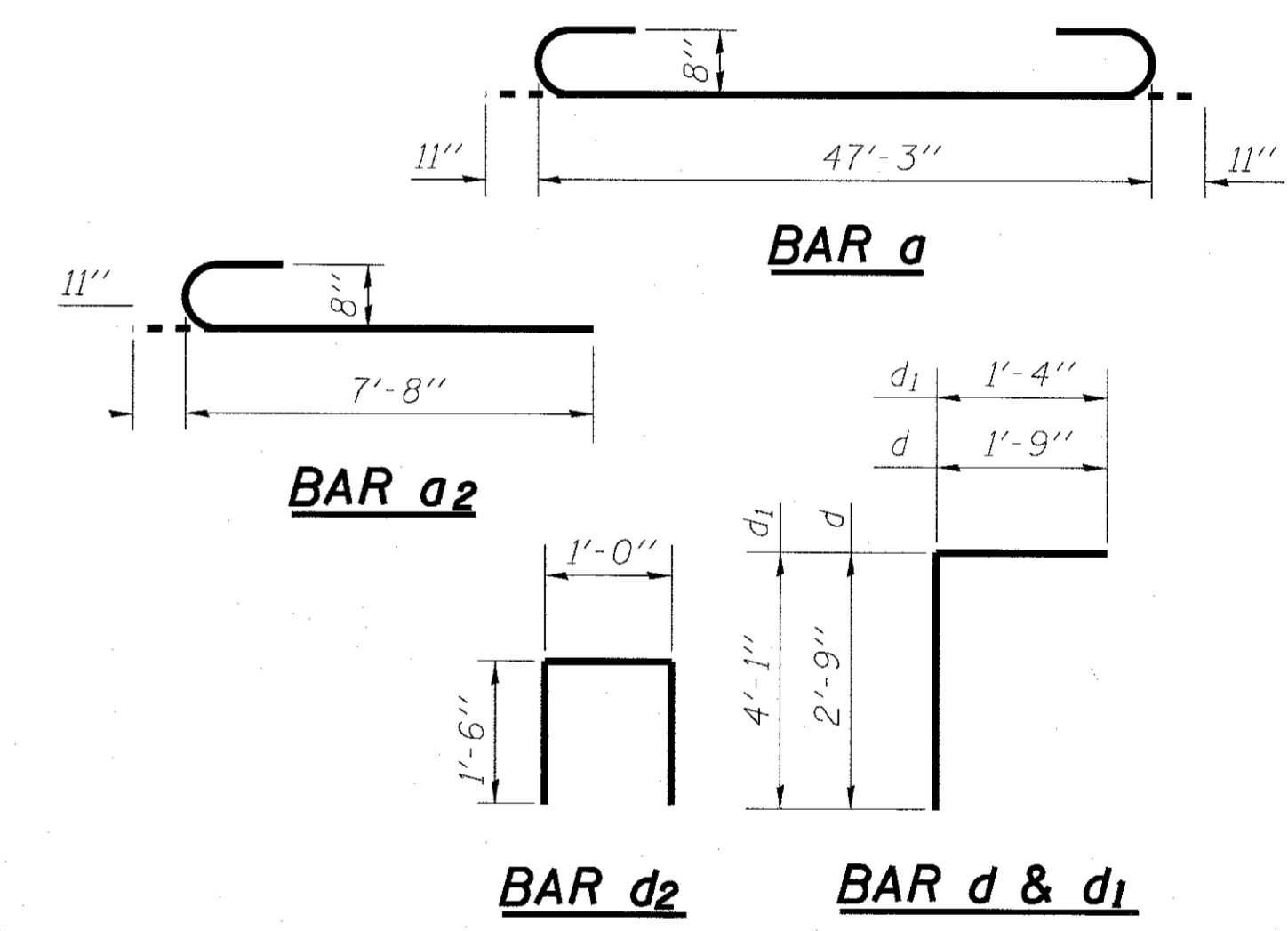
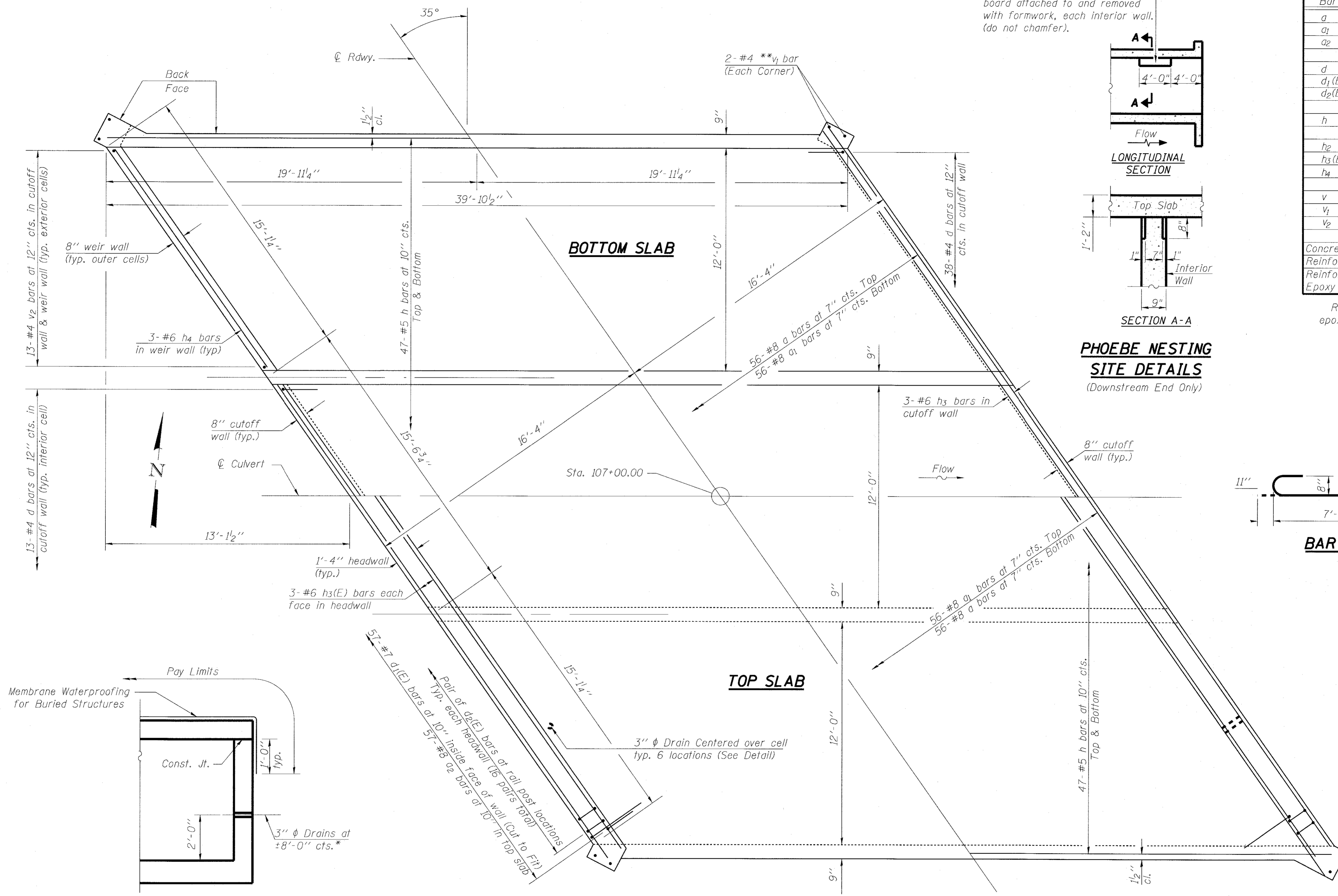
Bar	No.	Size	Length	Shape
a	112	#8	49'-1"	
a1	112	#8	47'-3"	
a2	114	#8	8'-7"	
d	51	#4	4'-6"	
d1(E)	114	#7	4'-1"	
d2(E)	32	#4	4'-0"	
h	188	#5	39'-6"	
h2	32	#6	39'-6"	
h3(E)	18	#6	47'-3"	
h4	6	#6	14'-2"	
v	240	#4	9'-7"	
v1	8	#4	14'-7"	
v2	26	#4	4'-9"	
Concrete Box Culverts		Cu. Yd.	197.0	
Reinforcement Bars		Pound	43,050	
Reinforcement Bars, Epoxy Coated		Pound	2,630	

Reinforcement bars designated (E) shall be epoxy coated.

Notch formed by rough finished board attached to and removed with formwork, each interior wall, (do not chamfer).



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



**WATERPROOFING**

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

\*\* Cut v<sub>1</sub> bars to fit

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 STATE OF ILLINOIS - PROFESSIONAL DESIGN FIRM  
 LICENSE NO. - 384-00121 - EXPIRES 4/30/2017  
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<b>BAXTER &amp; WOODMAN</b> Consulting Engineers	USER NAME =	DESIGNED - BLB	REVISED
	PLOT SCALE =	CHECKED - BAB	REVISED
	PLOT DATE =	DRAWN - BLB	REVISED
		CHECKED - BAB	FILE - Bridge worksheet.dgn

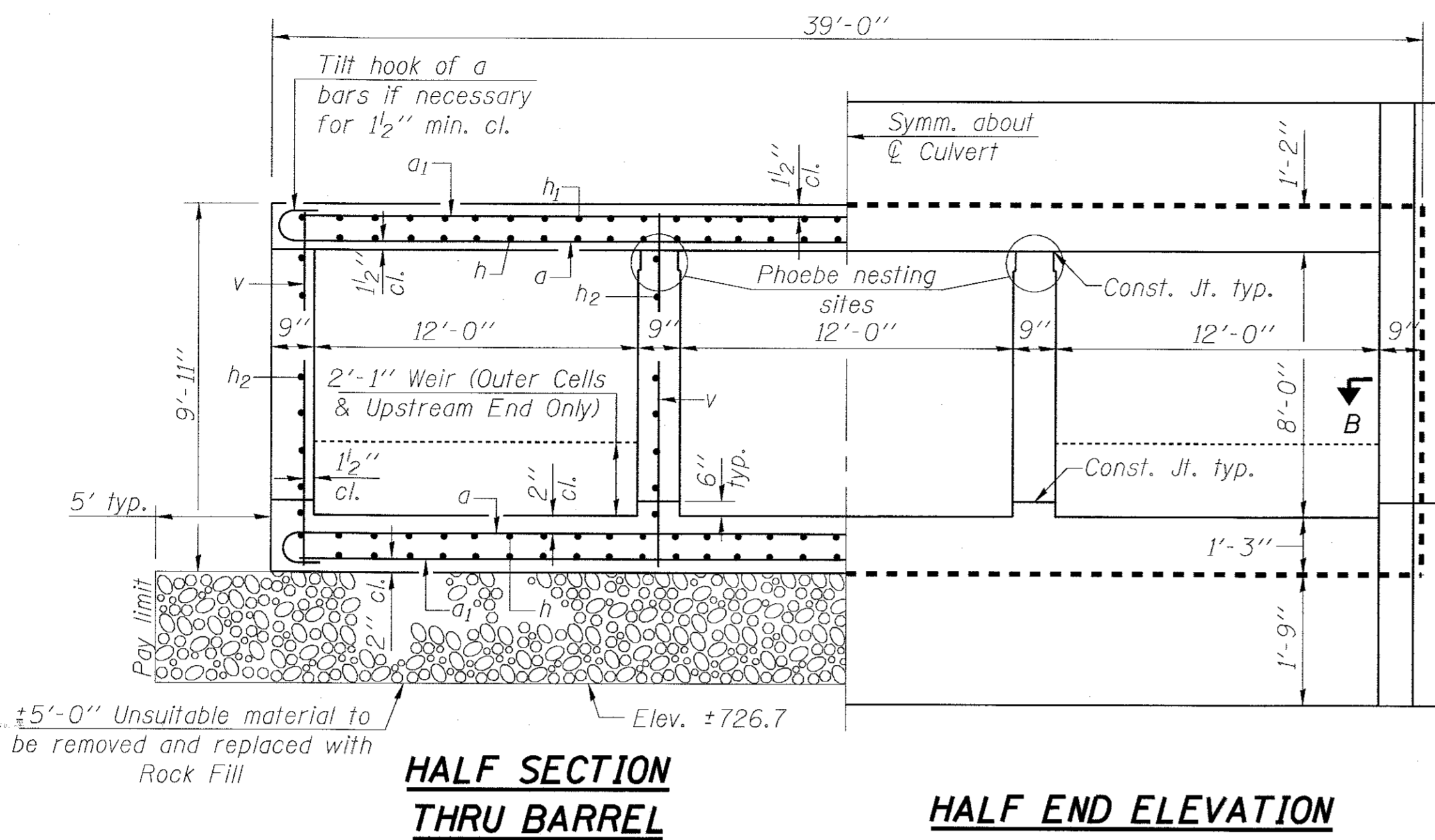
**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

**CULVERT DETAILS - I  
STRUCTURE NO. 056-6009**

SHEET NO. 2 OF 6 SHEETS

MUN. NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
0005	13-00009-00-BR	MCHENRY	38	23
CONTRACT NO. 61E04				
FED. ROAD DIST. NO. 1   ILLINOIS FED. AID PROJECT				



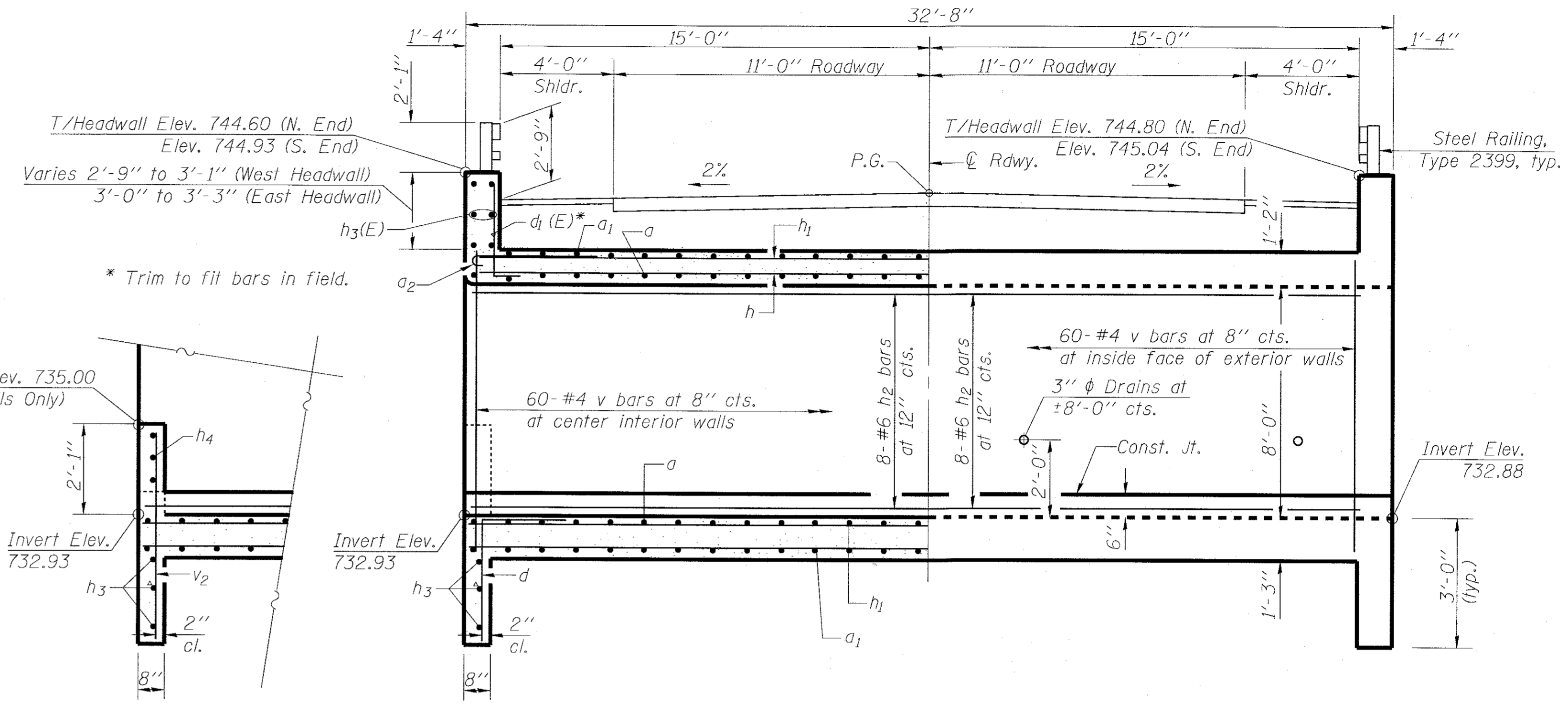


**HALF SECTION THRU BARREL**

**HALF END ELEVATION**

**SECTION THRU BARREL**

\* Slab thickness may be refined in final design



**PARTIAL LONG. SECTION**  
Showing bars in Weir Wall

**HALF LONG. SECTION**  
Showing bars in Interior Walls

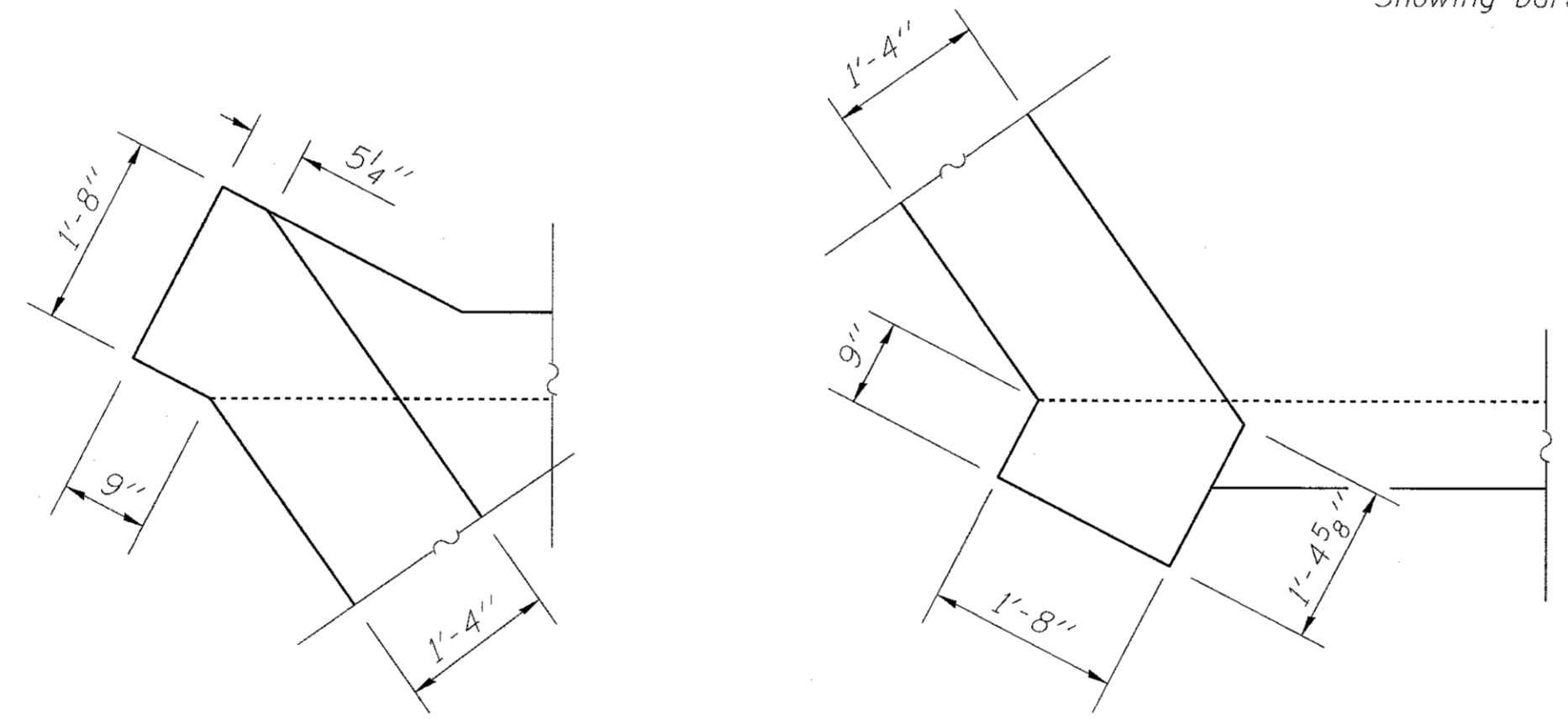
**HALF ELEVATION**  
Showing bars in Exterior Walls

Dimensions are at right angles to C Roadway

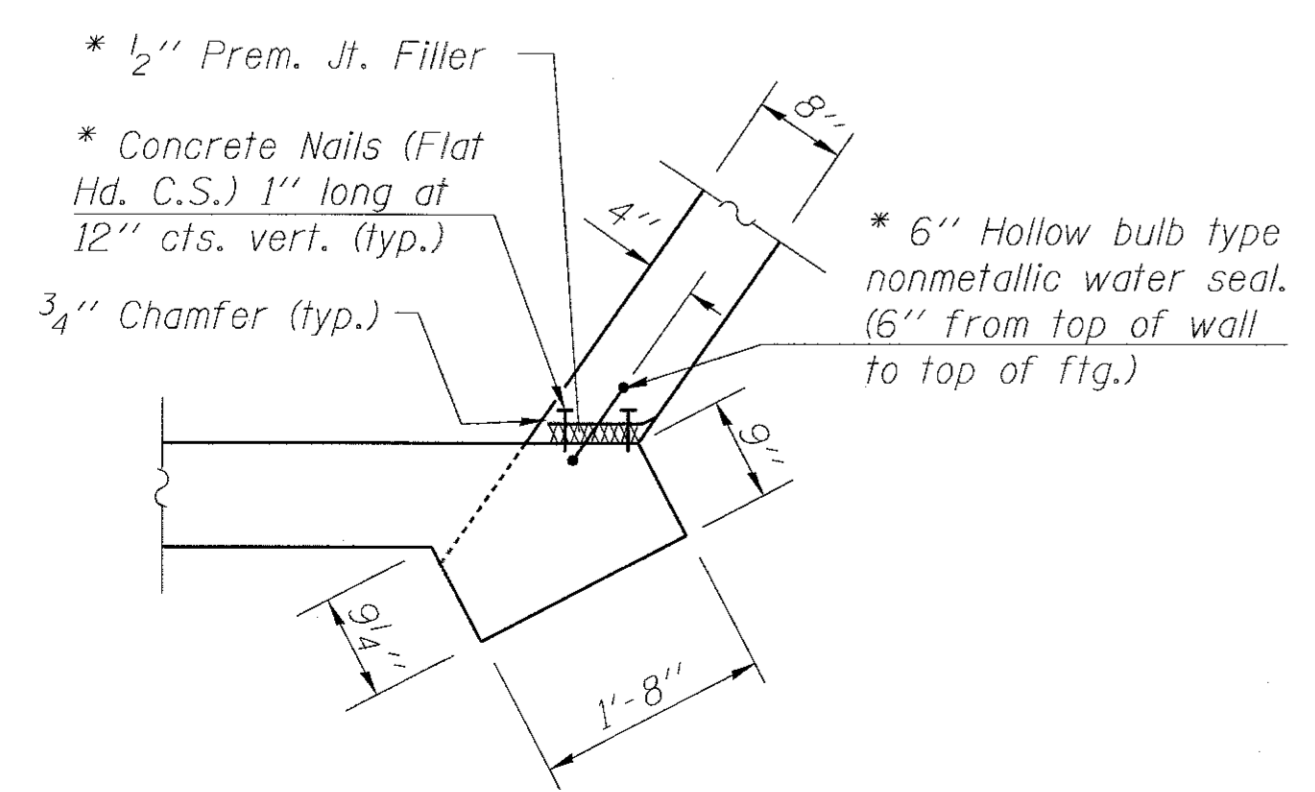
**NOTES**

The limits and quantities of removal and replacement shown are based on the boring data and may be modified by the Engineer for variable subsurface conditions encountered in the field.

The Rock Fill shall be capped with 6 in. of CA 7 and satisfy the Standard Specifications unless otherwise indicated in the Special Provisions. The cost of the capping material shall be included in the pay item for Rock Fill.

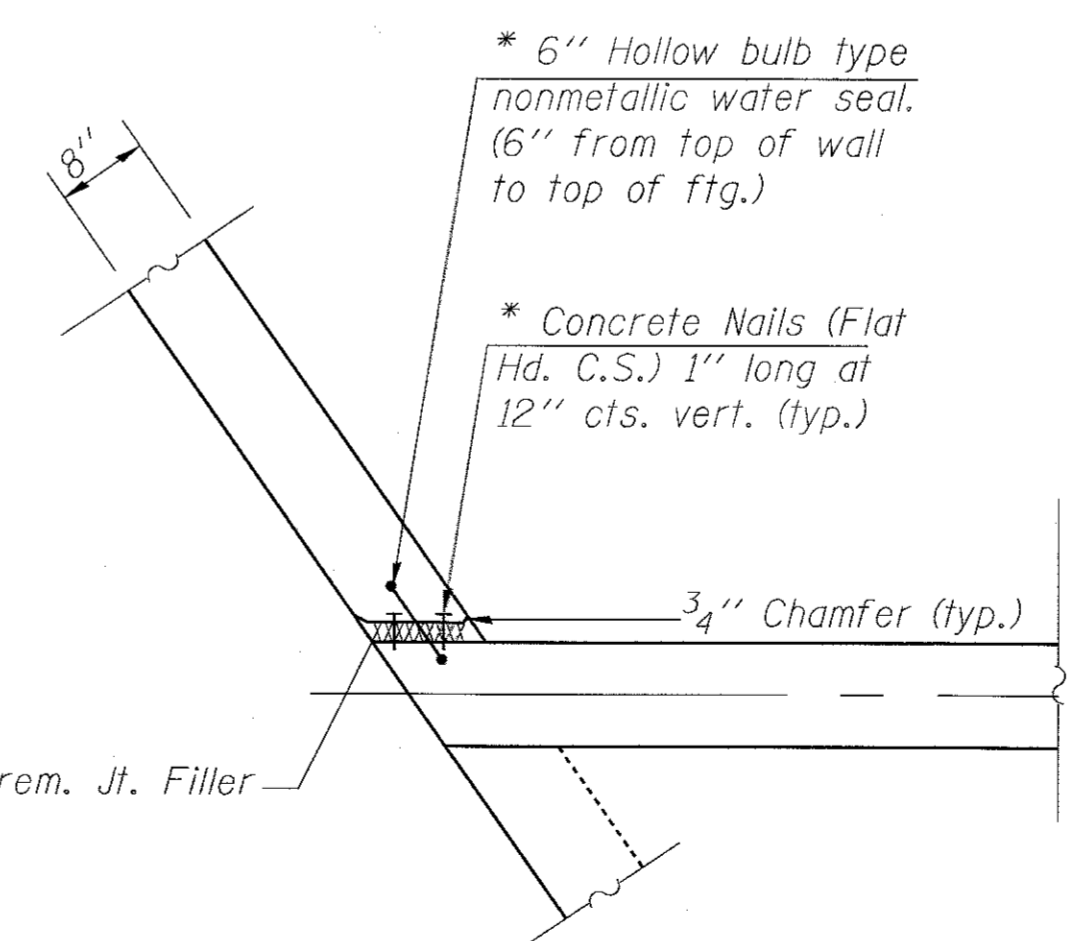


**HEADWALL CORNER DETAILS**

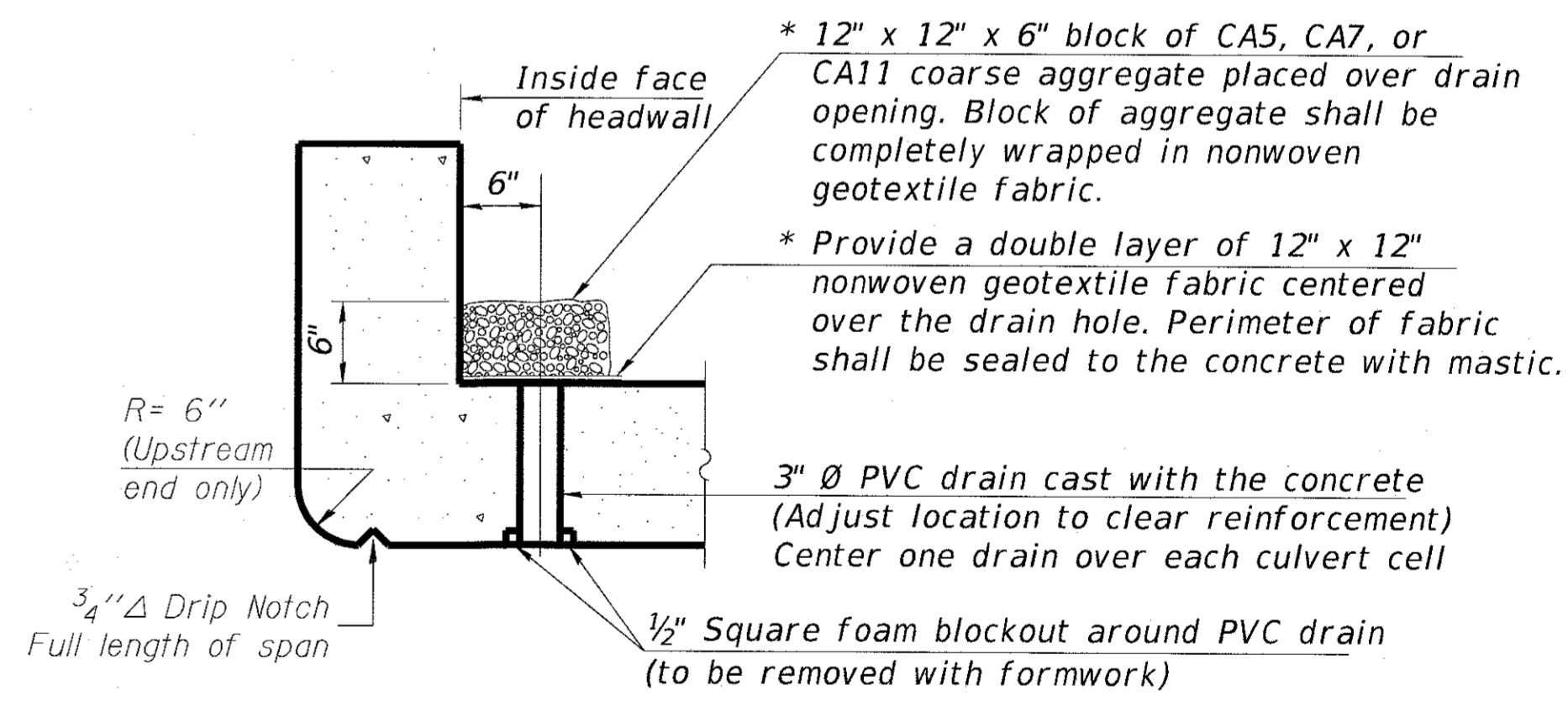


**WEIR WALL CORNER DETAIL**

\* The cost of these items shall be included in the cost of Concrete Box Culvert



\* 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.



**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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 488cac 9/8/2017



USER NAME =	DESIGNED - BLB	REVISED
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PLOT DATE =	DRAWN - BLB	REVISED
	CHECKED - BAB	FILE - Bridge worksheet.dgn

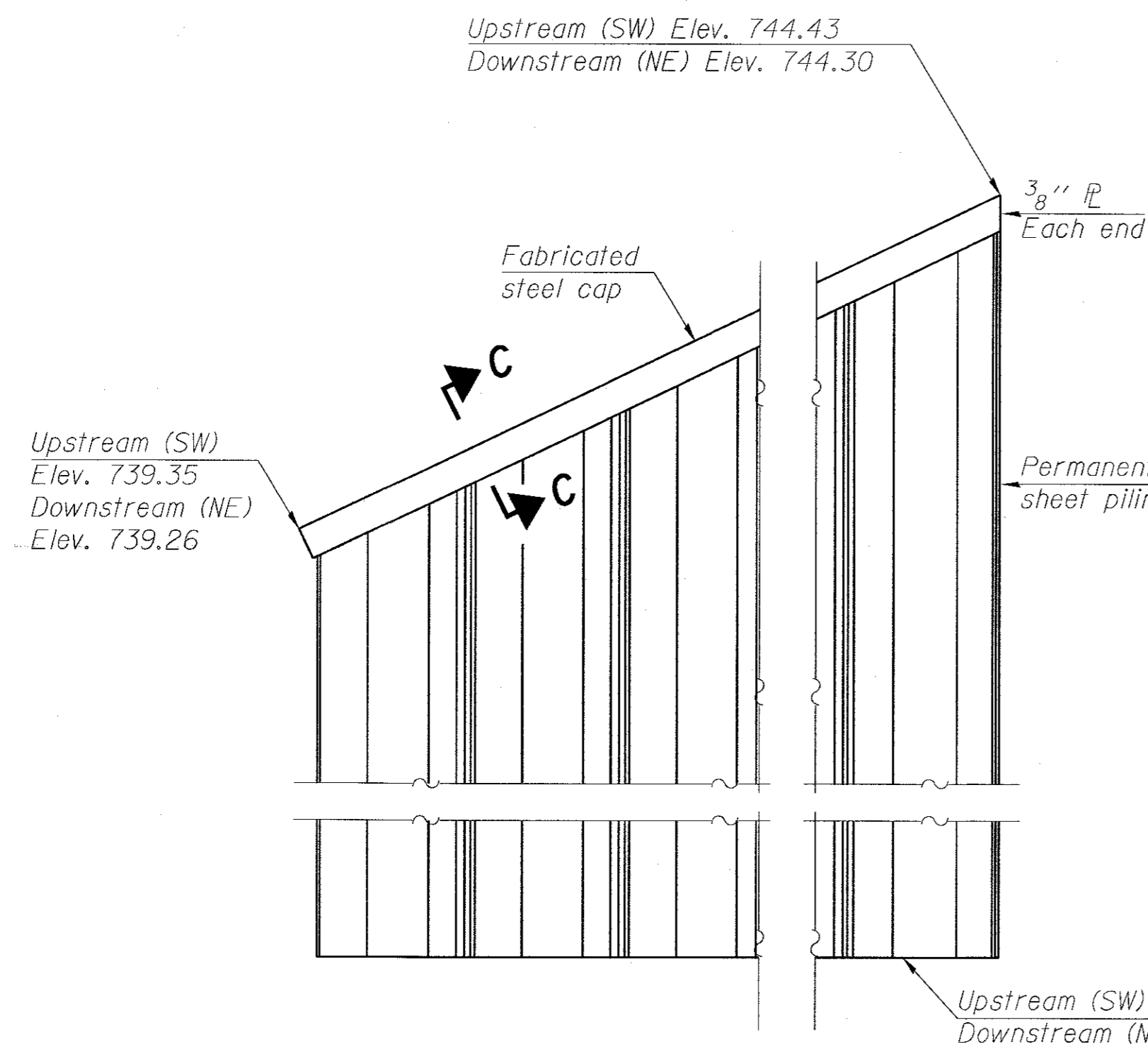
**STATE OF ILLINOIS**  
**DEPARTMENT OF TRANSPORTATION**

**CULVERT DETAILS - II**  
**STRUCTURE NO. 056-6009**

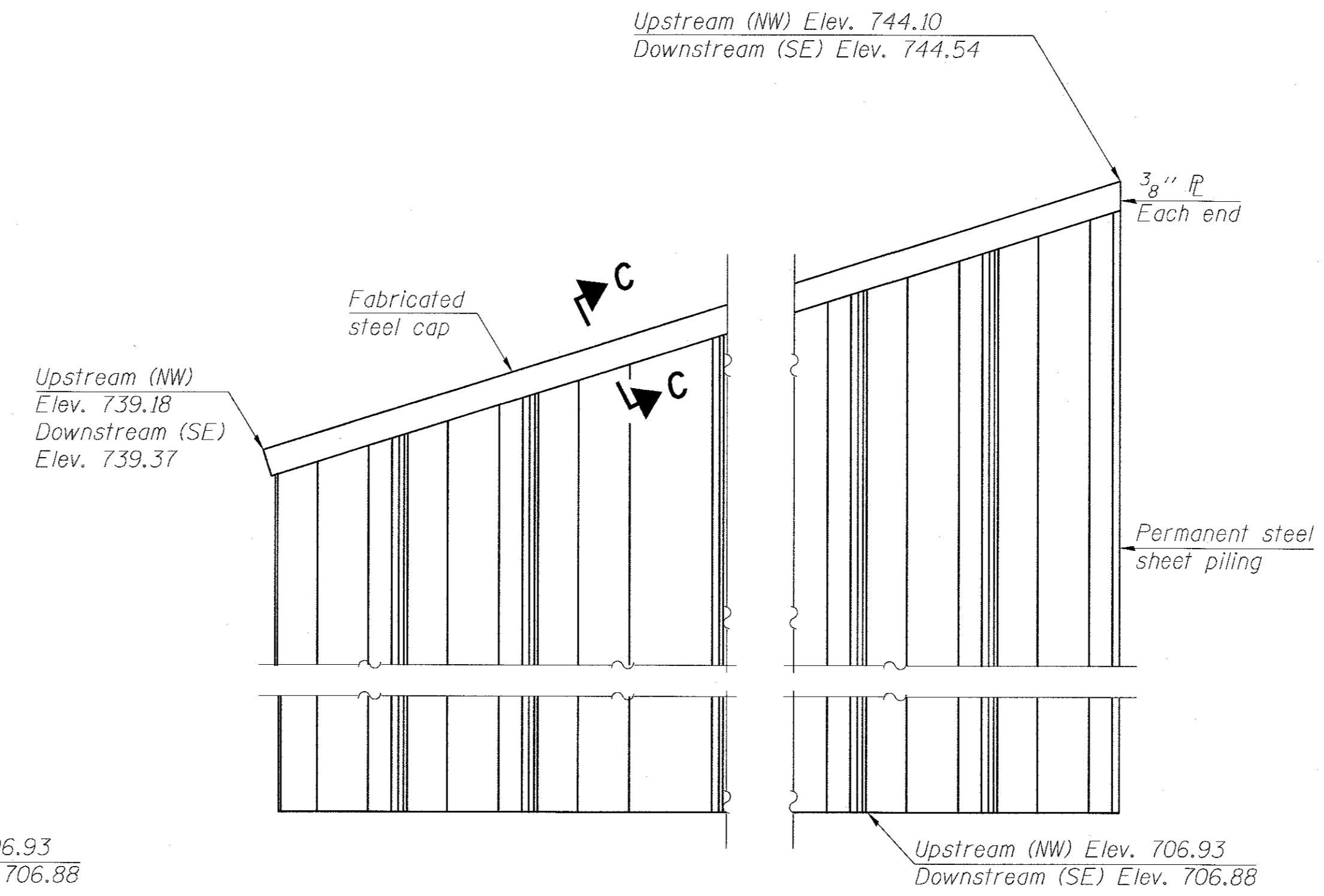
SHEET NO. 3 OF 6 SHEETS

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

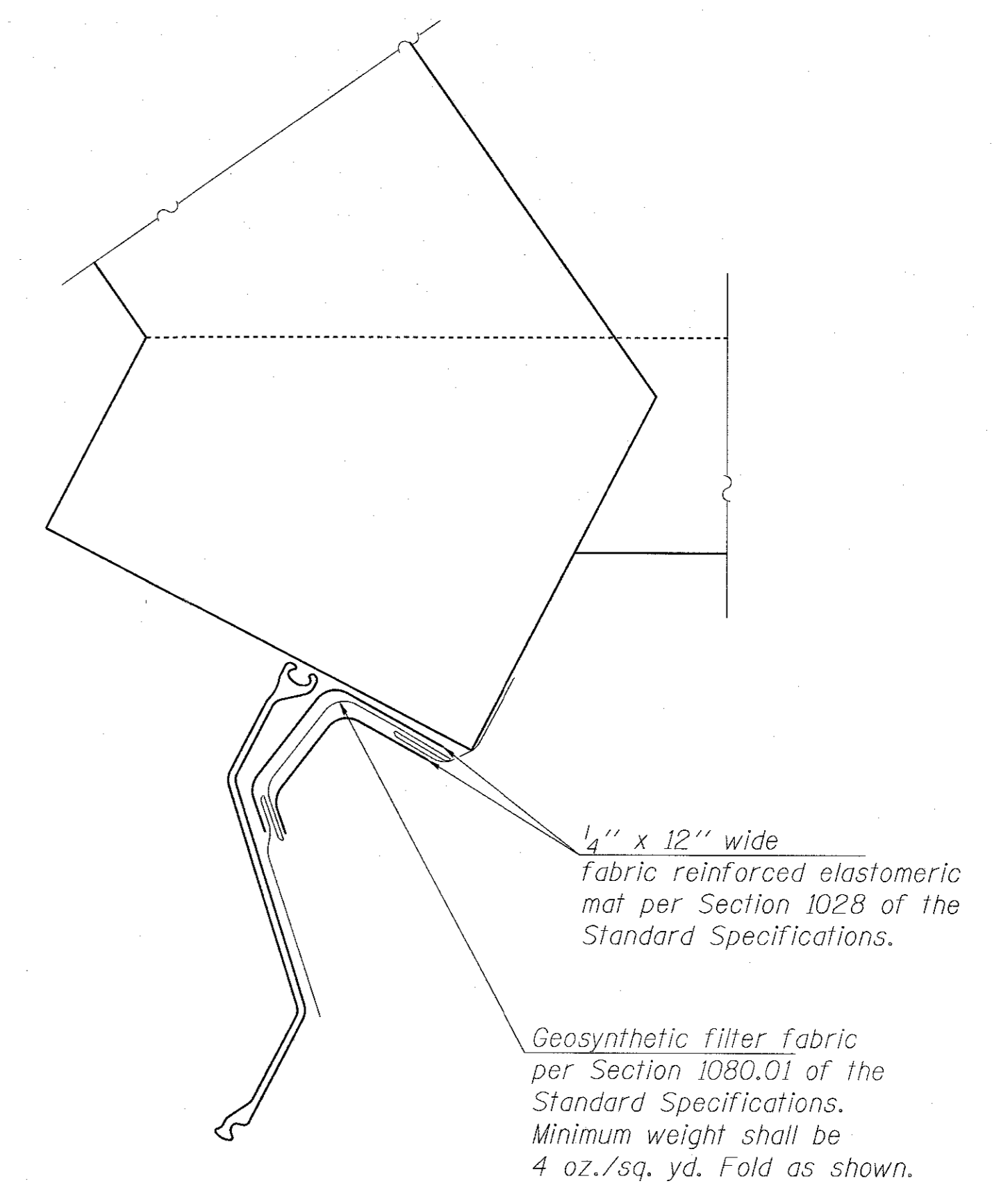




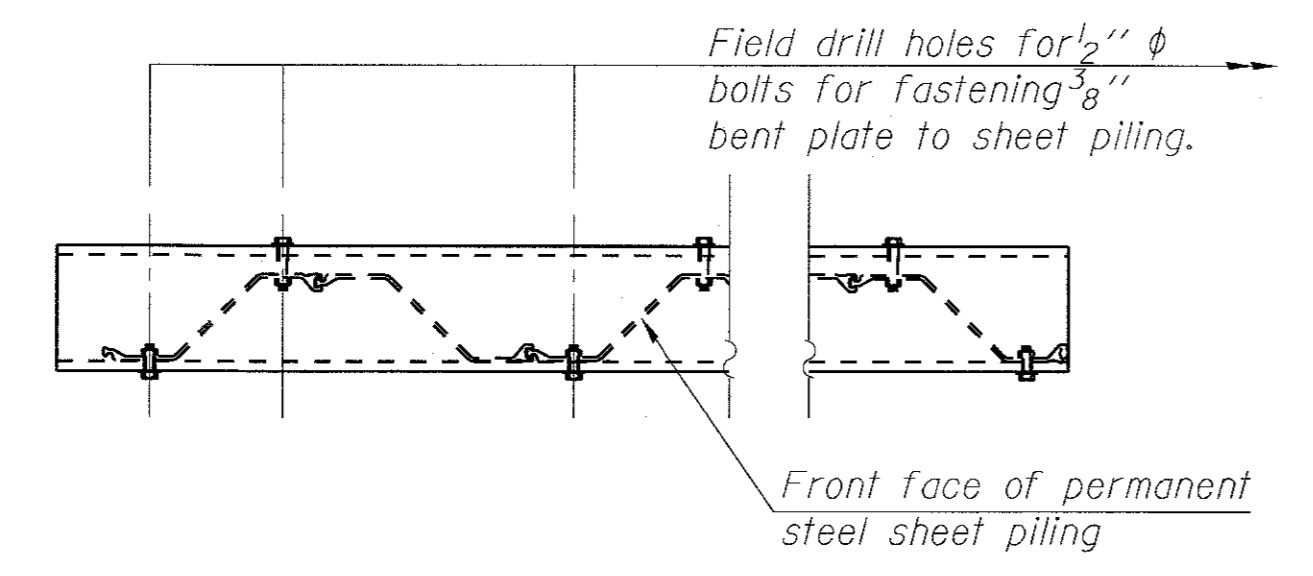
**NE & SW WINGWALLS**



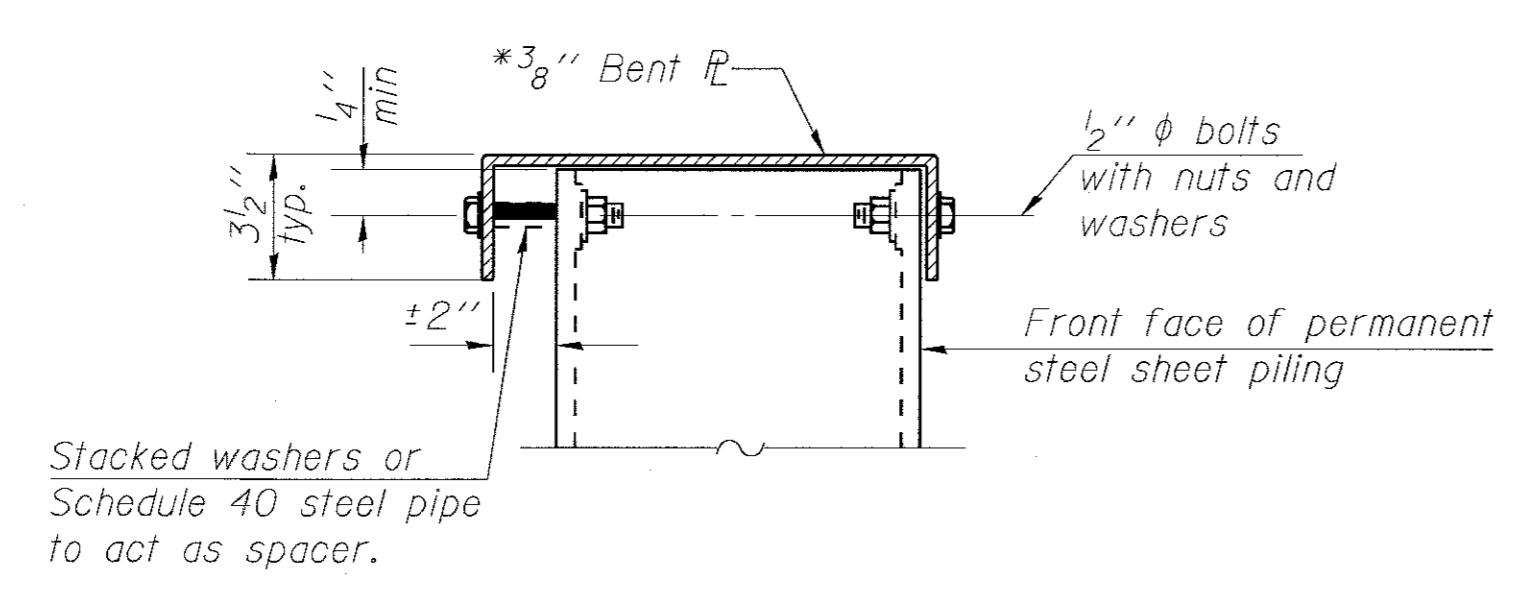
**NW & SE WINGWALLS**



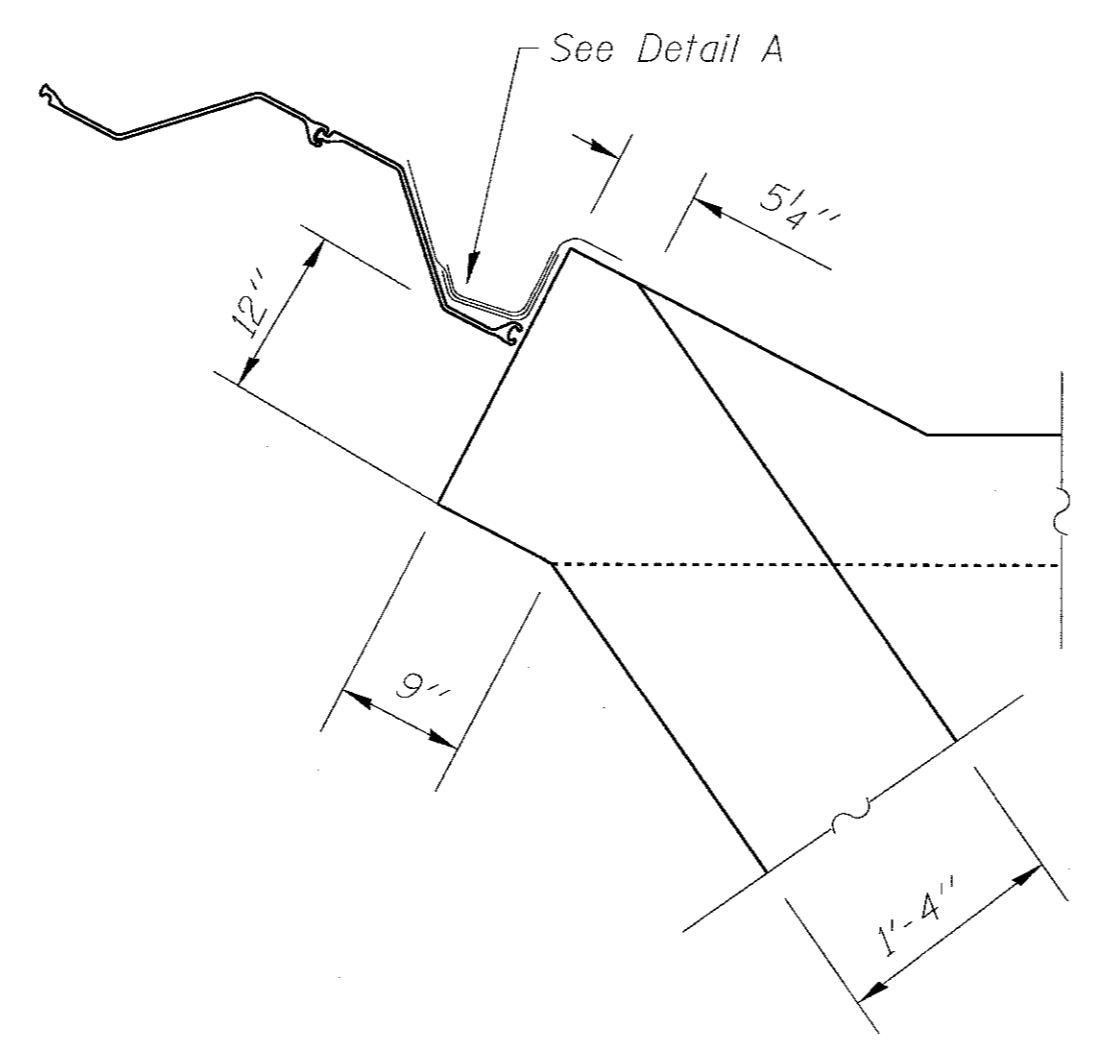
**DETAIL A**



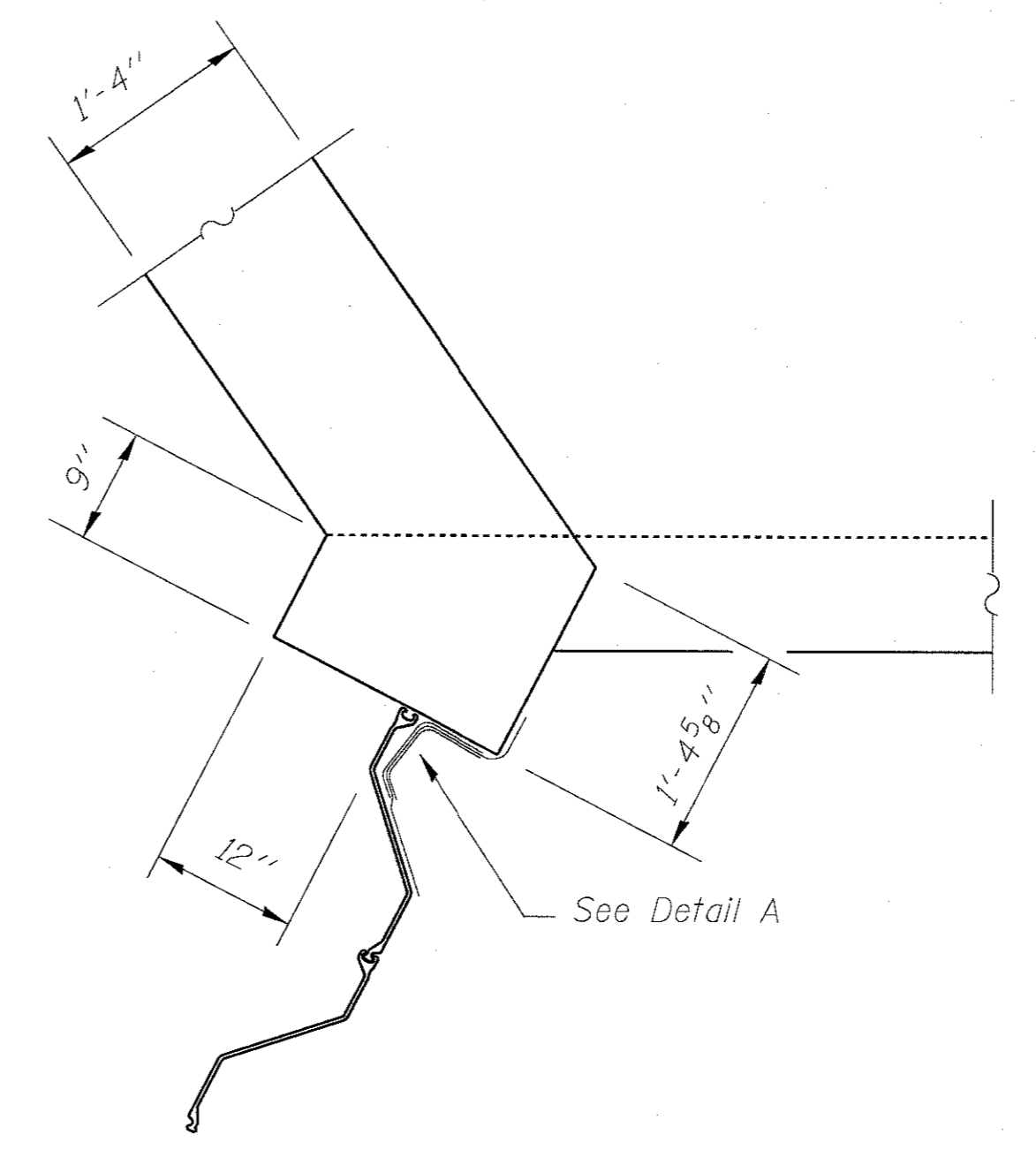
**WINGWALL PLAN**



**SECTION C-C**  
\* AASHTO M270 Grade 50W



**SECTION B-B**



**BILL OF MATERIAL**

Item	Unit	Quantity
Permanent Sheet Piling	SQ. Ft.	2,375

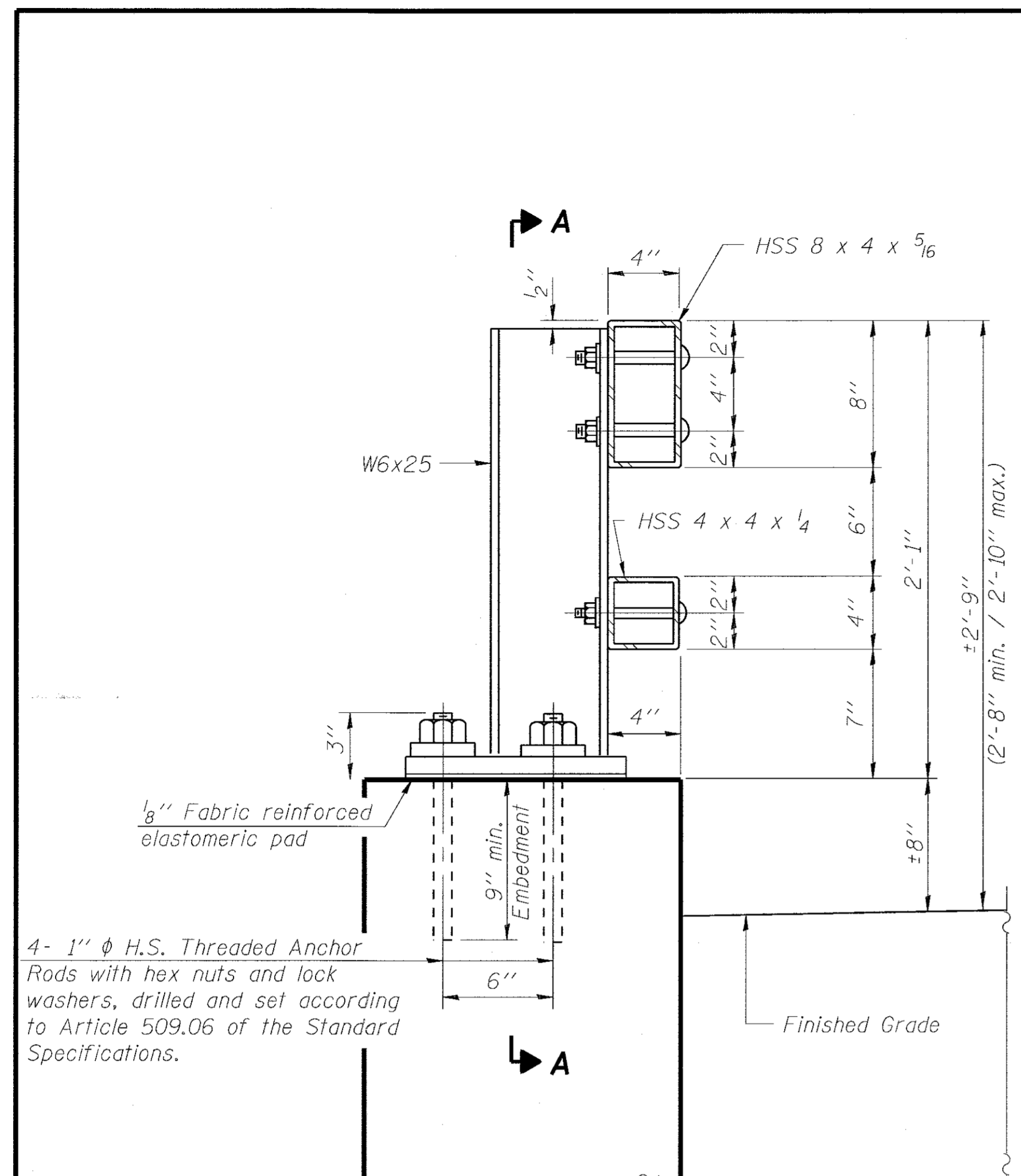
The cost of the fabricated steel cap, bolts, washers, geosynthetic filter fabric, and elastomeric mat shall be included in the cost of Permanent Sheet Piling.

**NOTES**

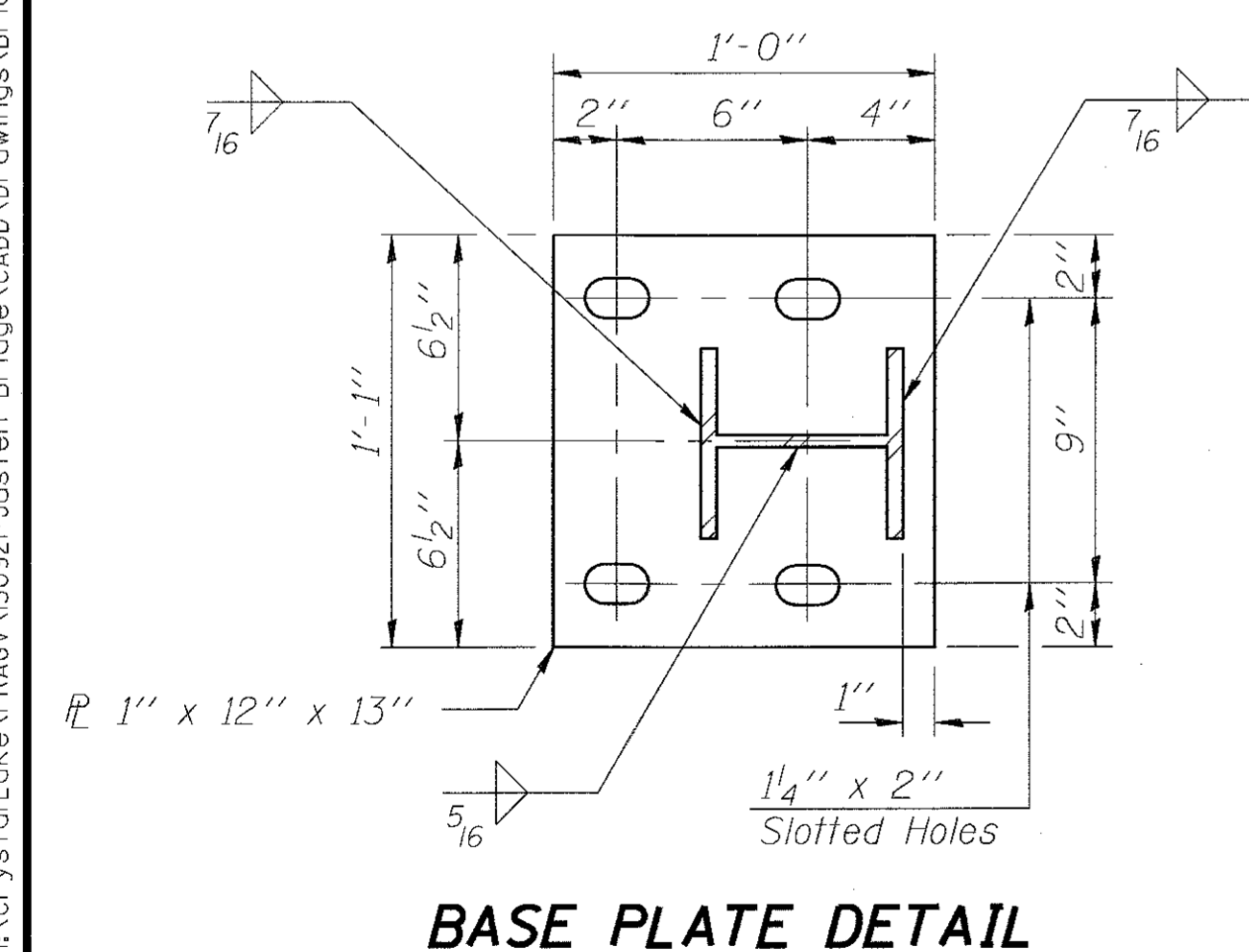
Minimum required Section Modulus for Permanent Sheet Piling = 48.5 in<sup>3</sup>/ft.

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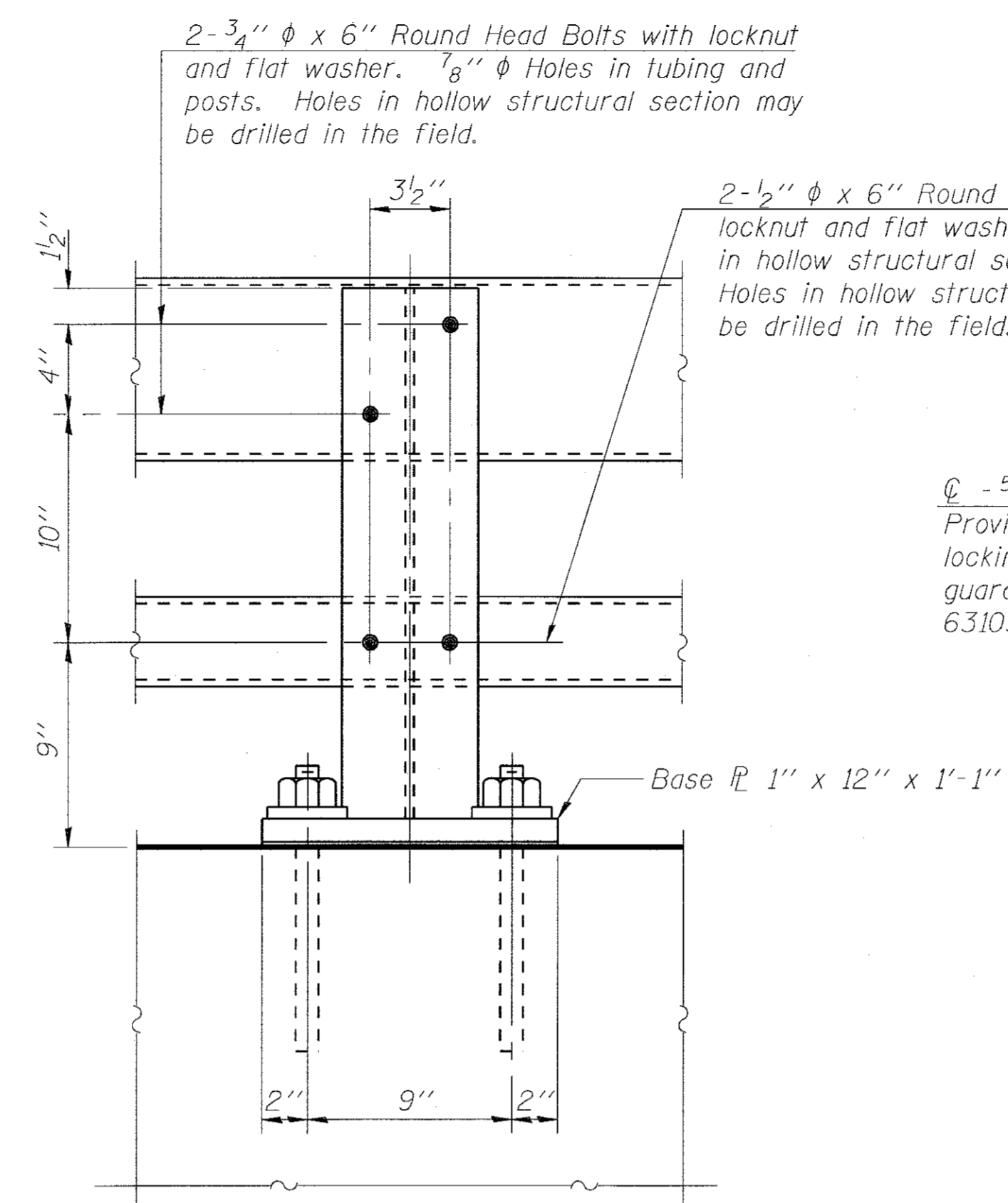
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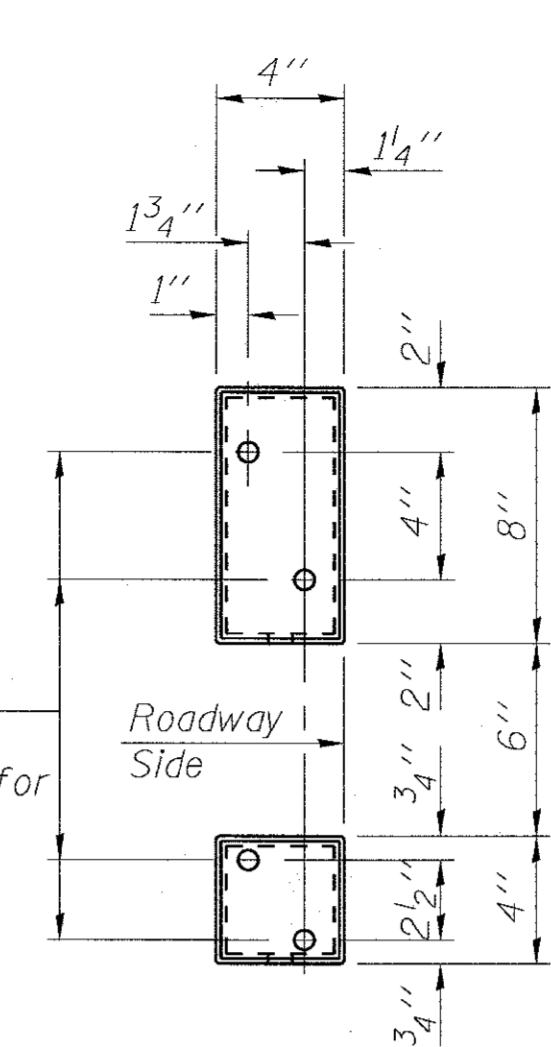
**SECTION AT RAIL POST**



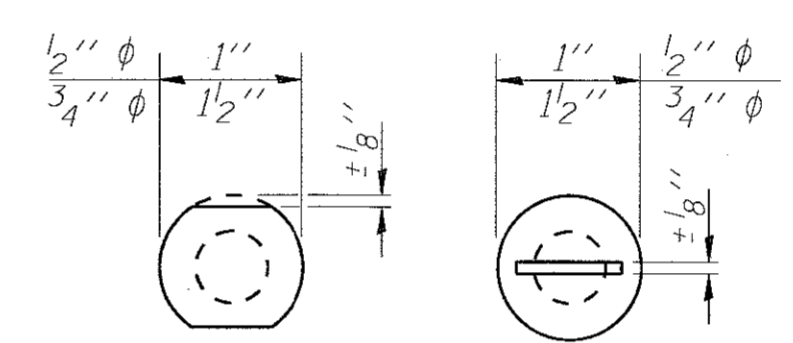
**BASE PLATE DETAIL**



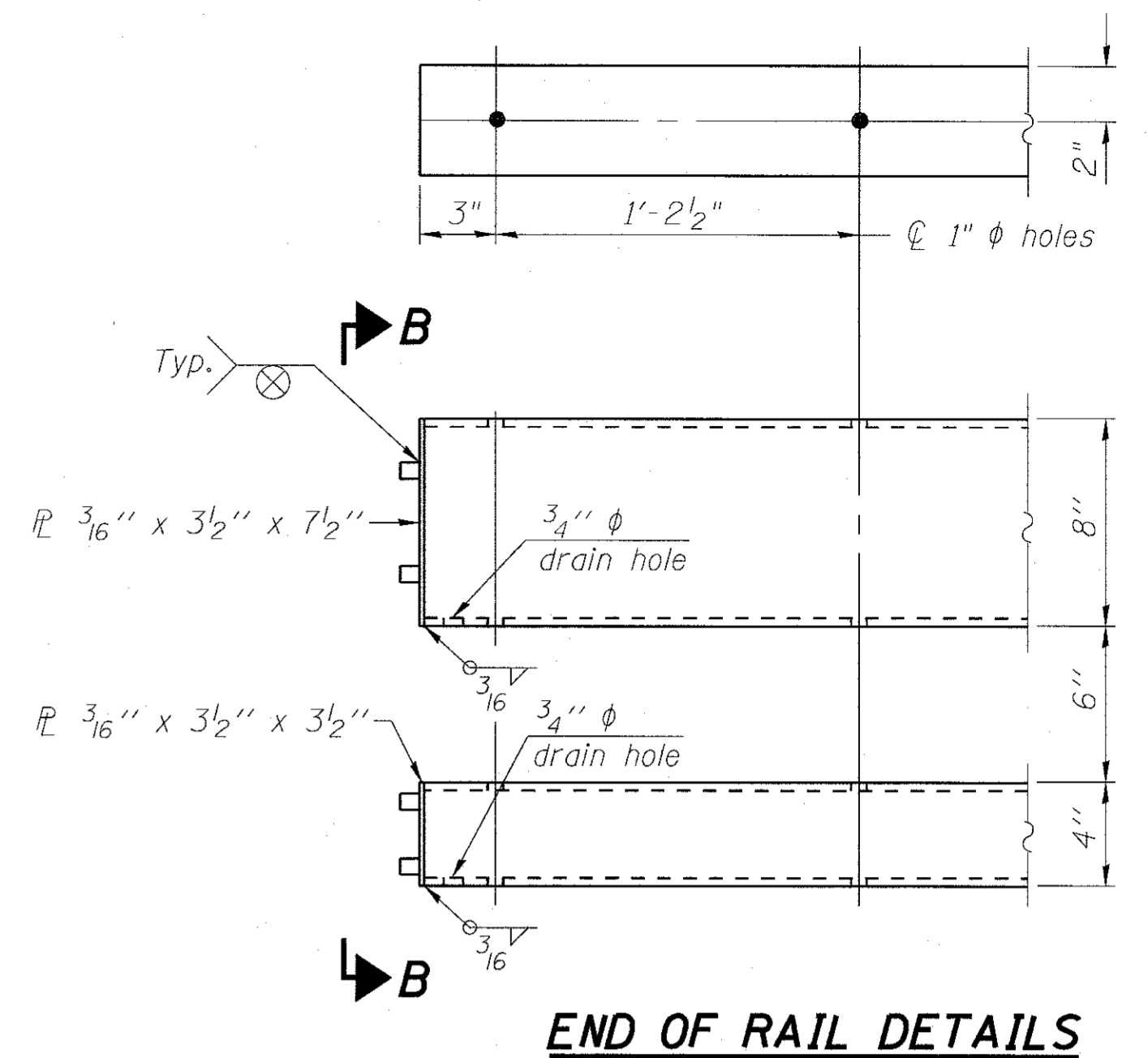
**SECTION A-A**



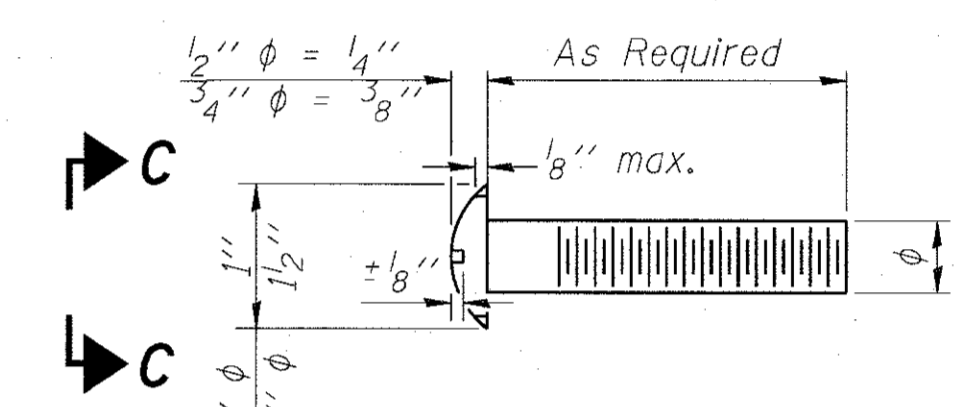
**VIEW B-B**



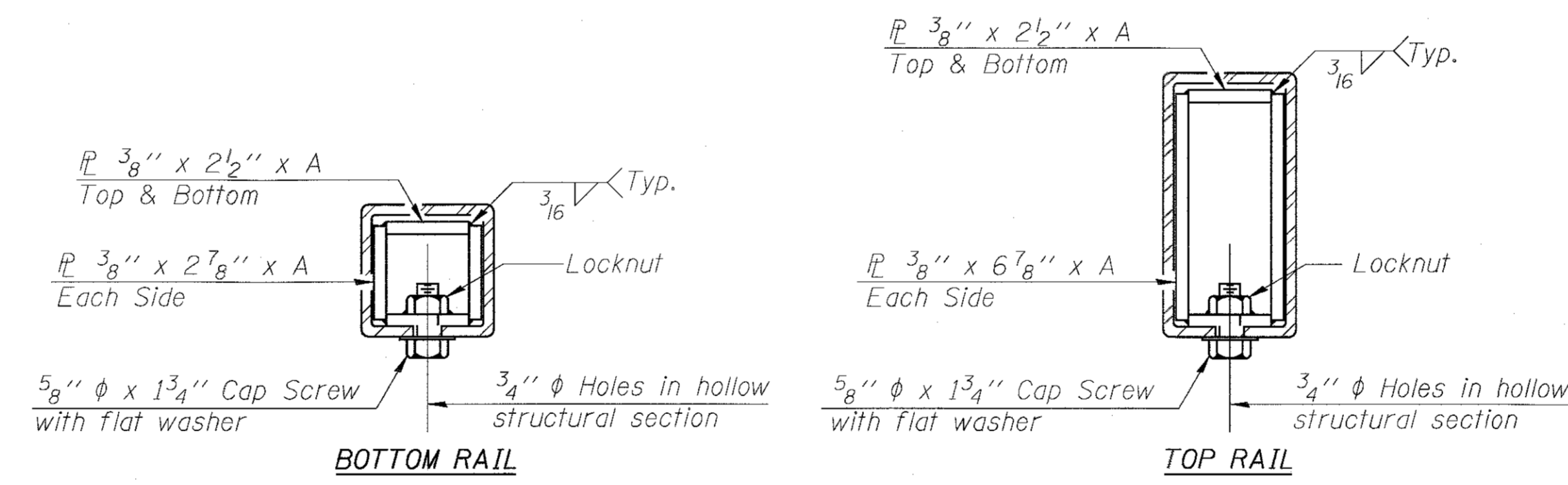
**VIEW C-C**



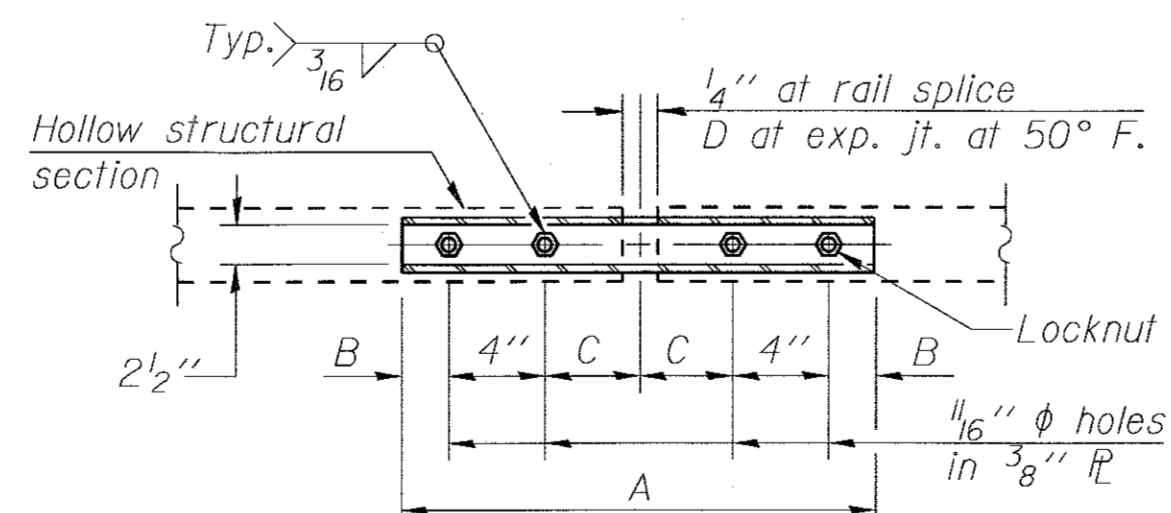
**END OF RAIL DETAILS**



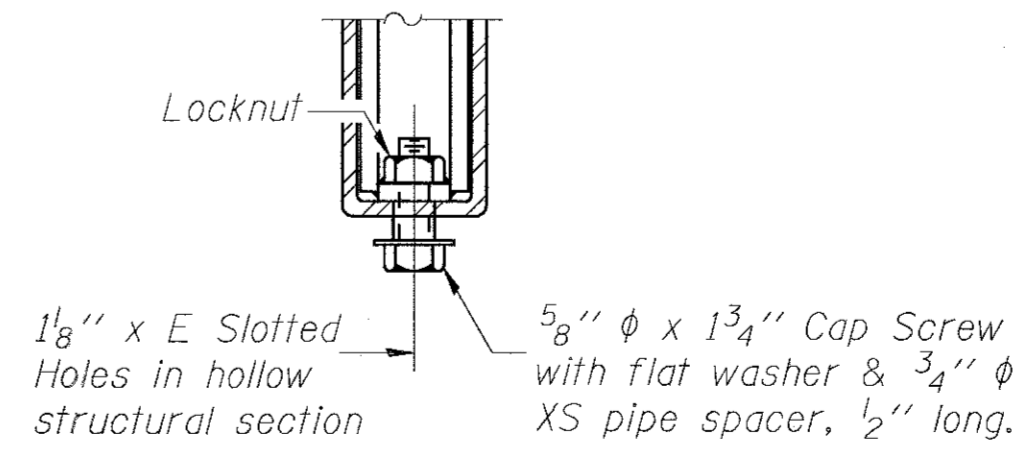
**DETAIL OF 1/2" & 3/4" ROUND HEAD BOLTS**



**SECTIONS AT RAIL SPLICE**



**PLAN-BOTT. SPLICE TYPICAL**



**RAIL SPLICE CONNECTION AT EXPANSION JT.**

Notes:  
 Posts shall not be located closer than 1'-3" to an existing bridge expansion joint or end of bridge.  
 Steel Bridge Rail expansion joint shall be provided between any two (2) posts which span a bridge expansion joint. Bolts located at expansion joint shall be provided with locknuts and shall be tightened only to a point that will allow railing movement.  
 Provide one 1/8" and two 1/16" steel shims for 25% of the posts. Shims shall be similar to base plates in size and holes.  
 All steel rail elements shall be galvanized according to Article 509.05 of the Standard Specifications.

**SPLICE DIMENSIONS**

T	D	A	B	C	E
≤4"	2 1/2"	1'-8"	2"	4"	2 1/2"
>4" ≤6 1/2"	3 3/4"	2'-0"	2 1/2"	5 1/2"	3 1/2"
>6 1/2" ≤9"	5"	2'-4"	3 1/2"	6 1/2"	9"
>9" ≤13"	7"	2'-10"	4 1/2"	8 1/2"	11"
Rail Splice	1/4"	1'-8"	2"	4"	—

T = Total movement at expansion joint as shown on the design plans.

**BILL OF MATERIAL**

Item	Unit	Quantity
Steel Railing, Type 2399	Foot	96

R-31

11-22-16

(6'-3" Maximum Post Spacing)

**BAXTER & WOODMAN**  
 Consulting Engineers

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PLOT SCALE =	CHECKED - BAB	REVISED
PLOT DATE =	DRAWN - BLB	REVISED
	CHECKED - BAB	FILE - Bridge worksheet.dgn

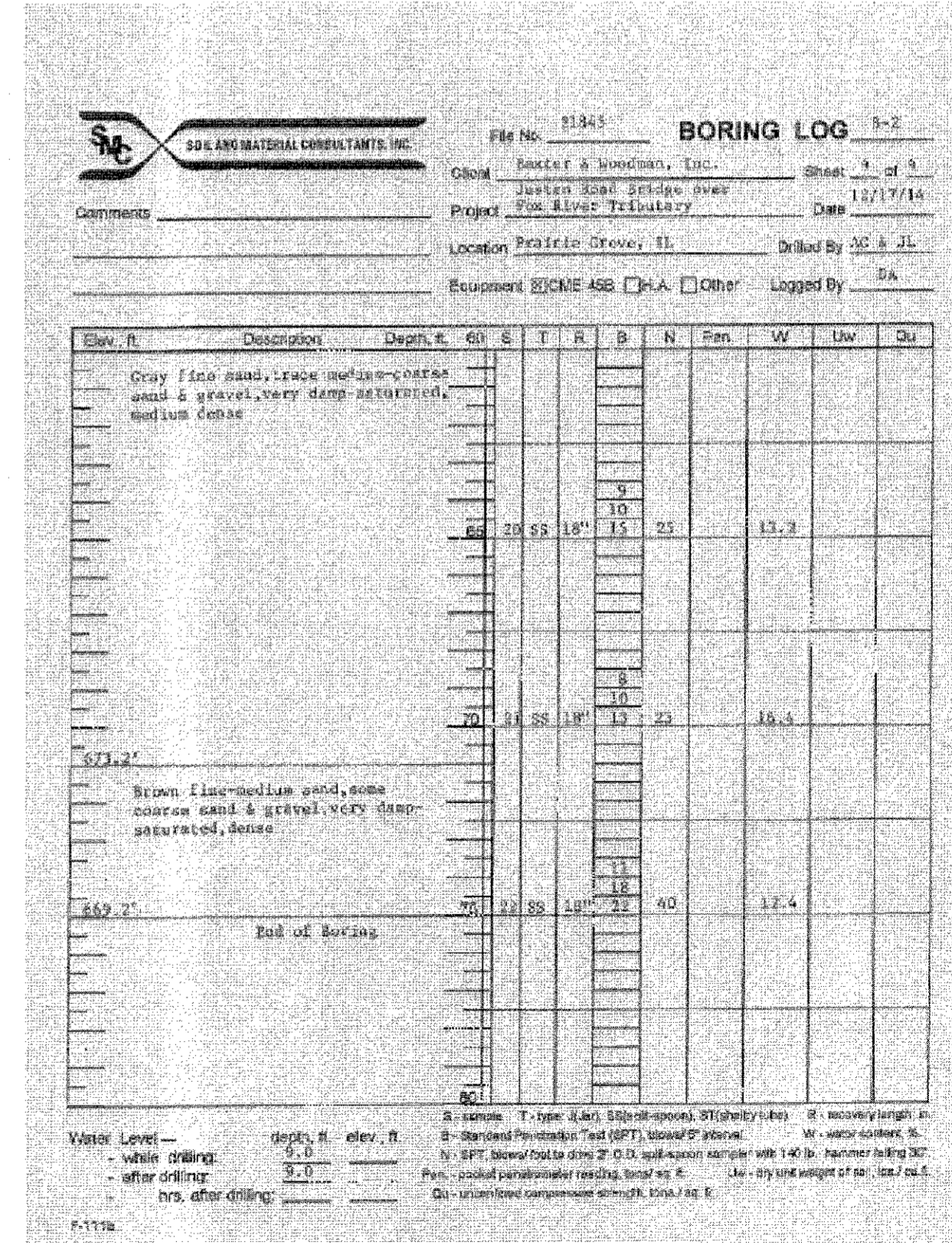
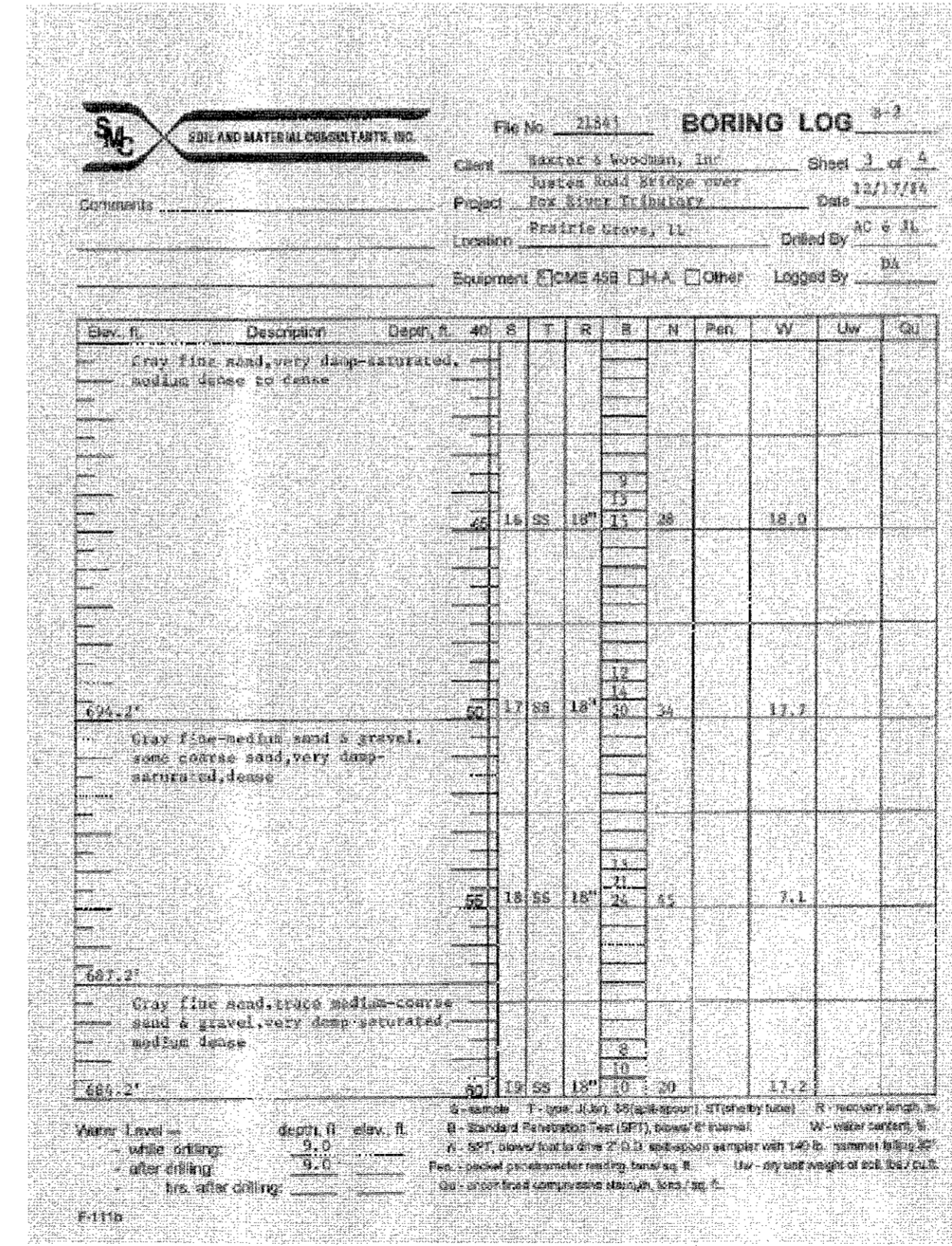
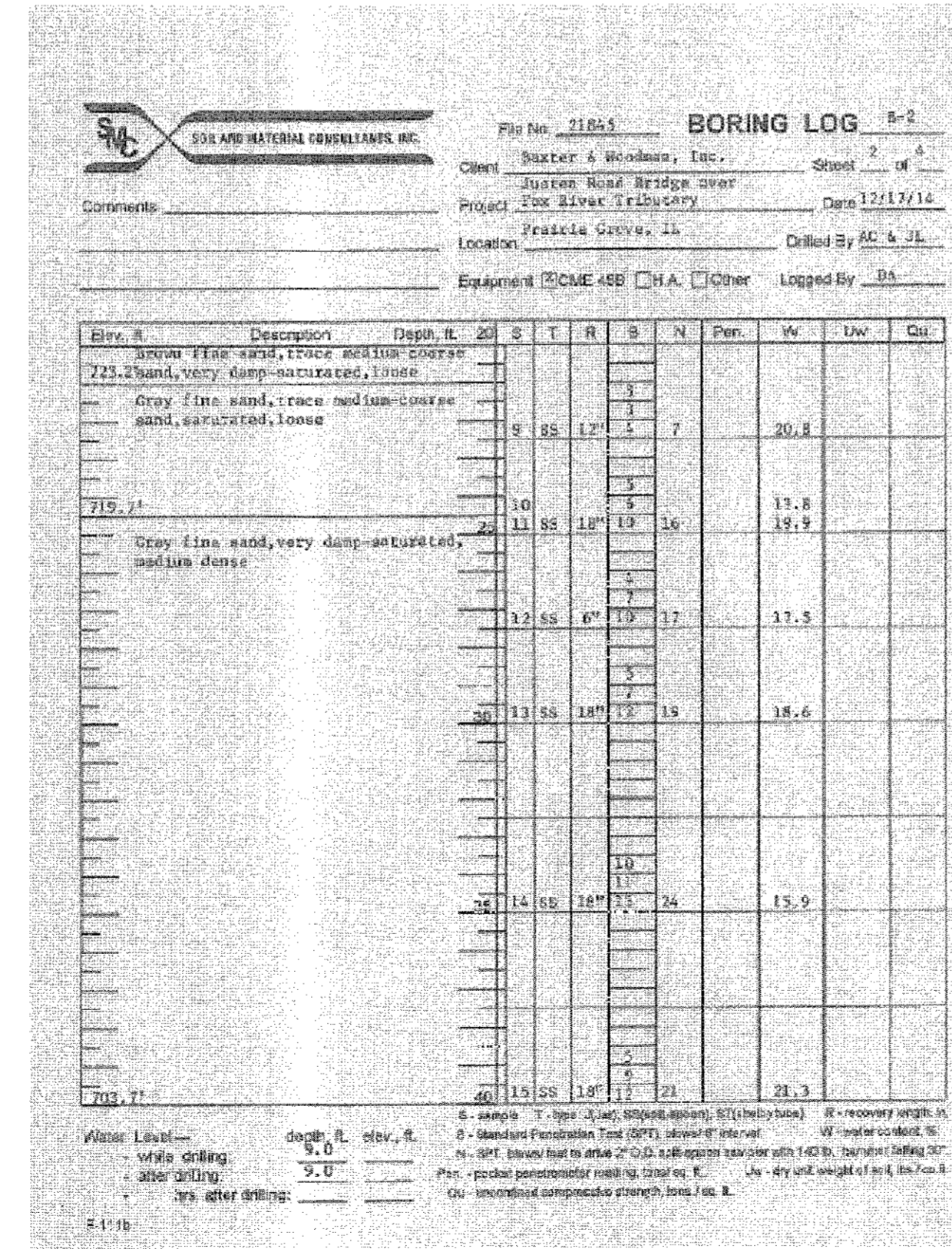
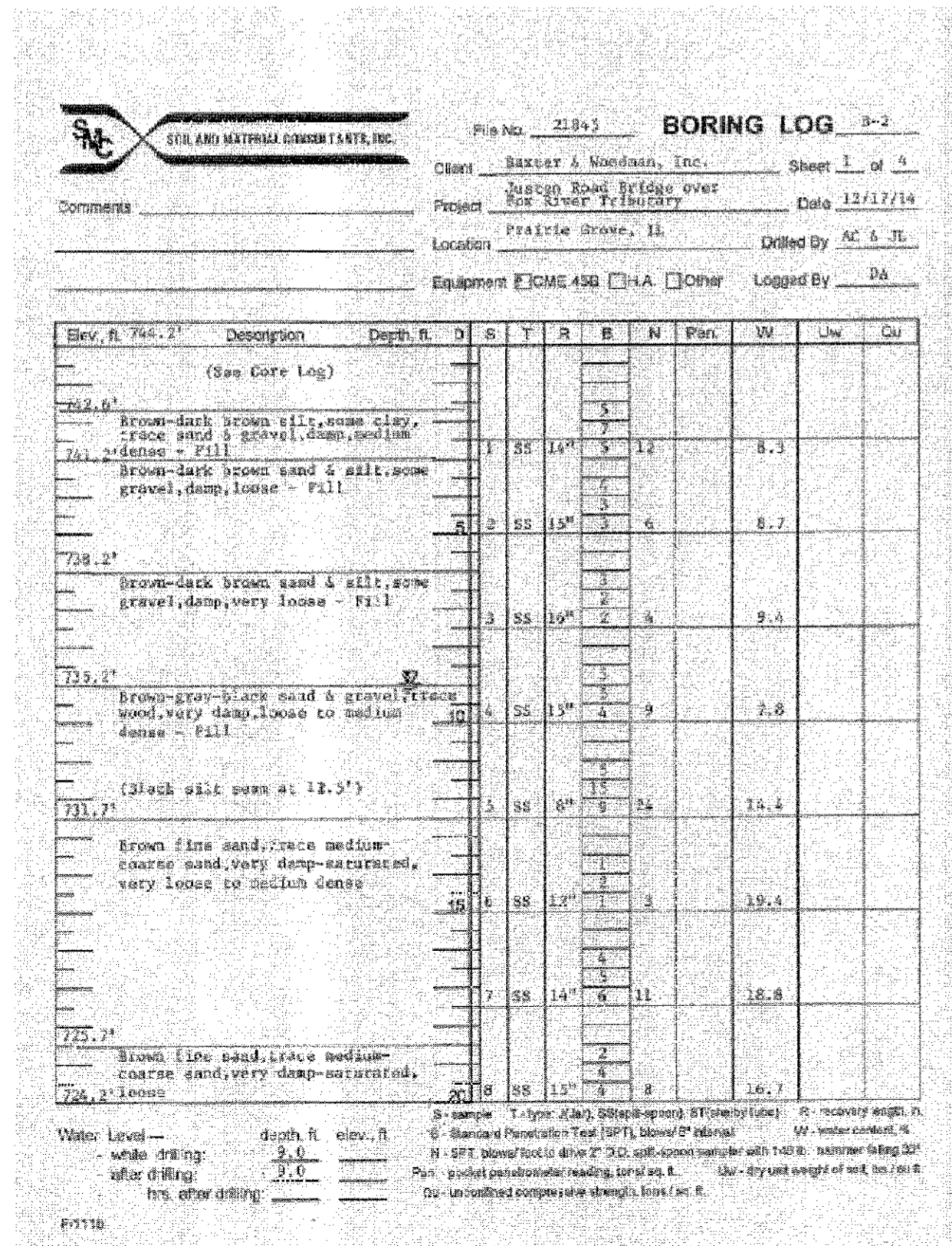
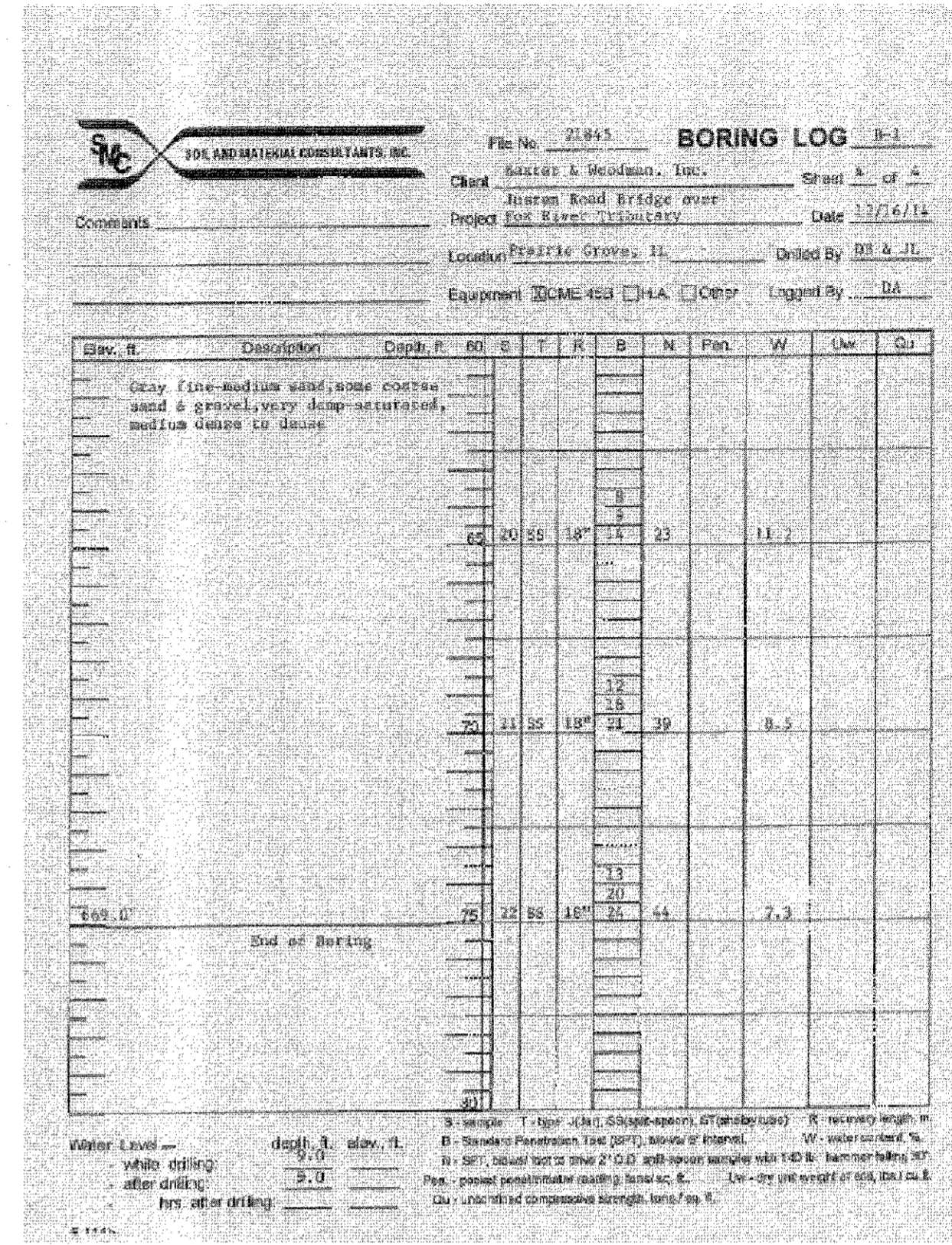
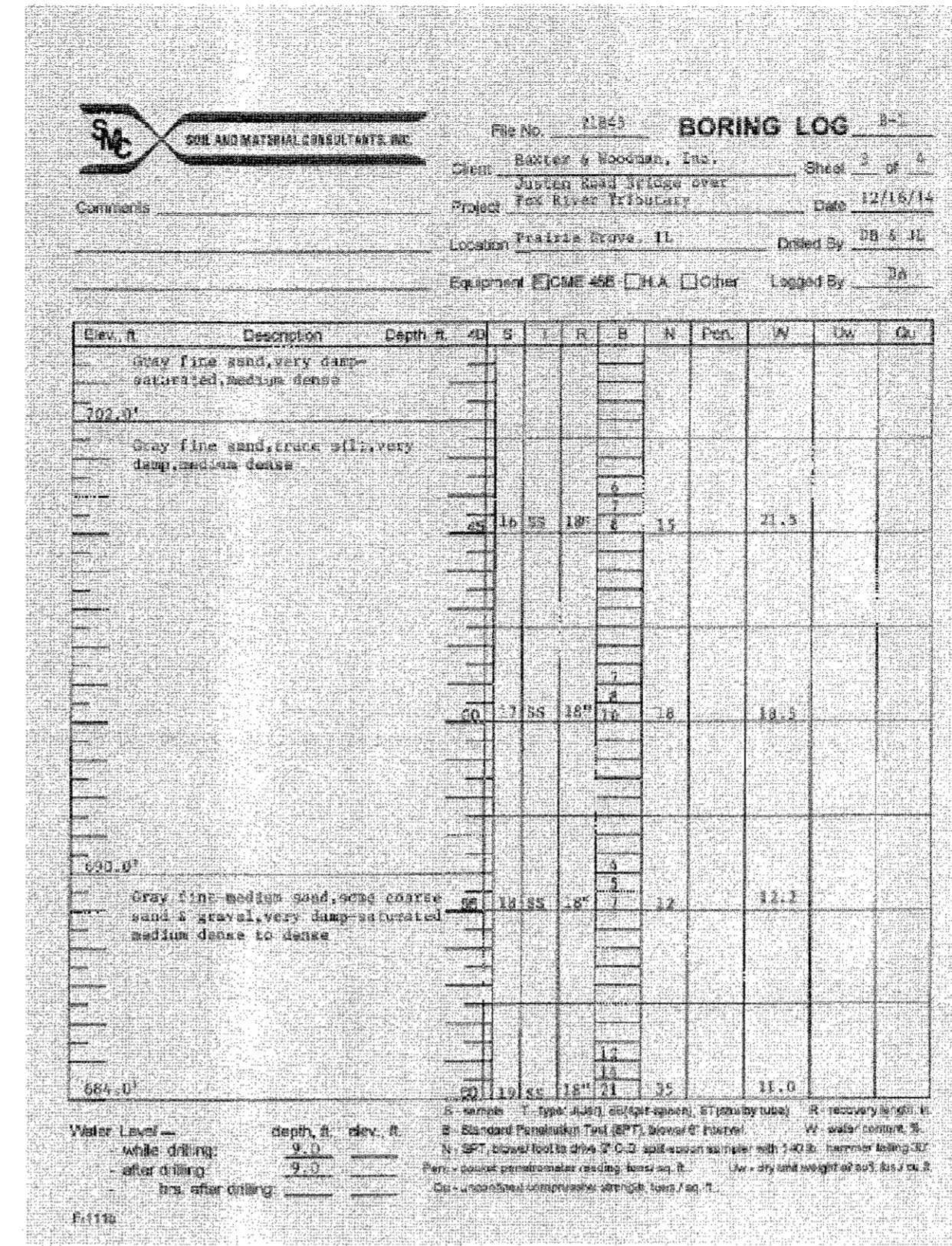
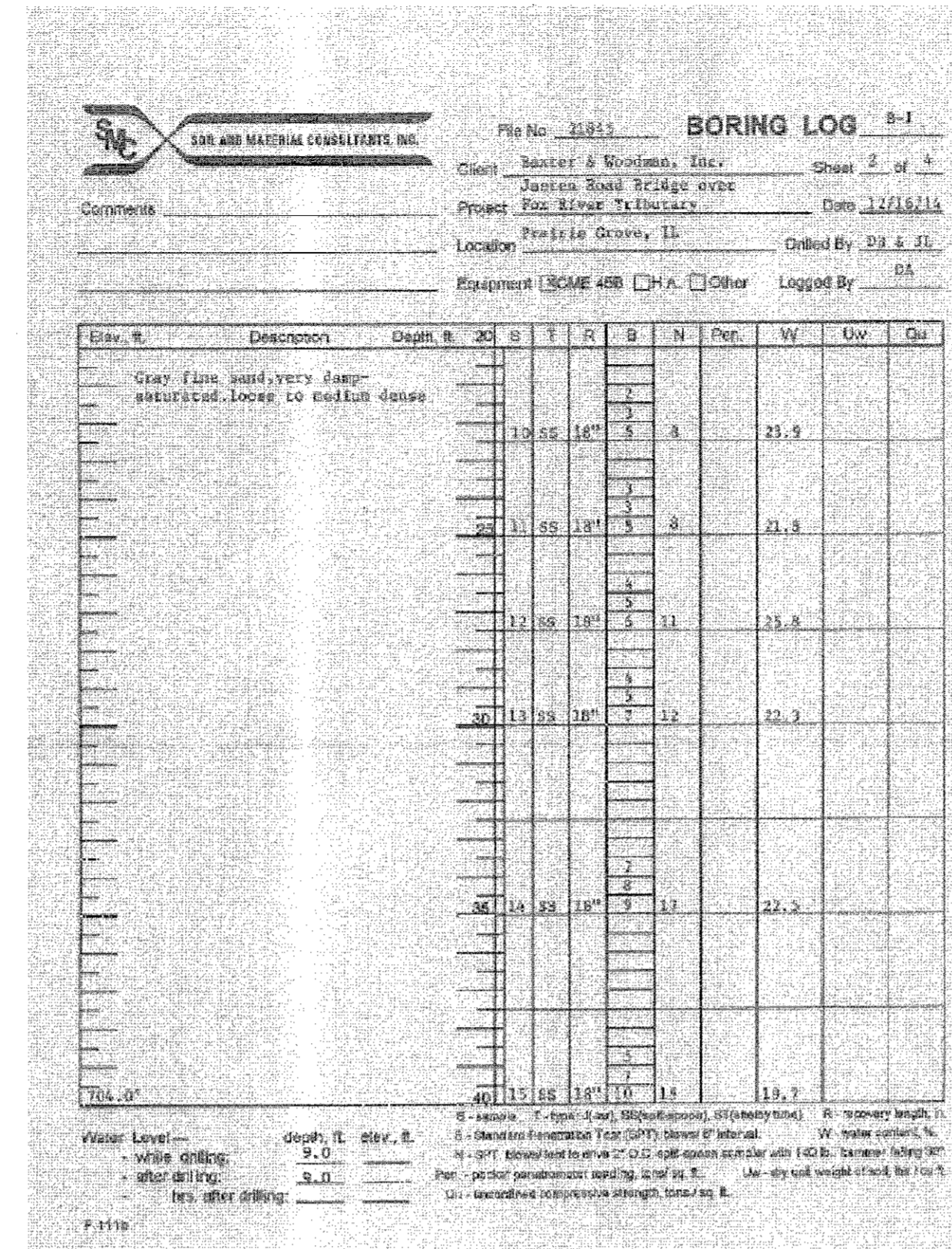
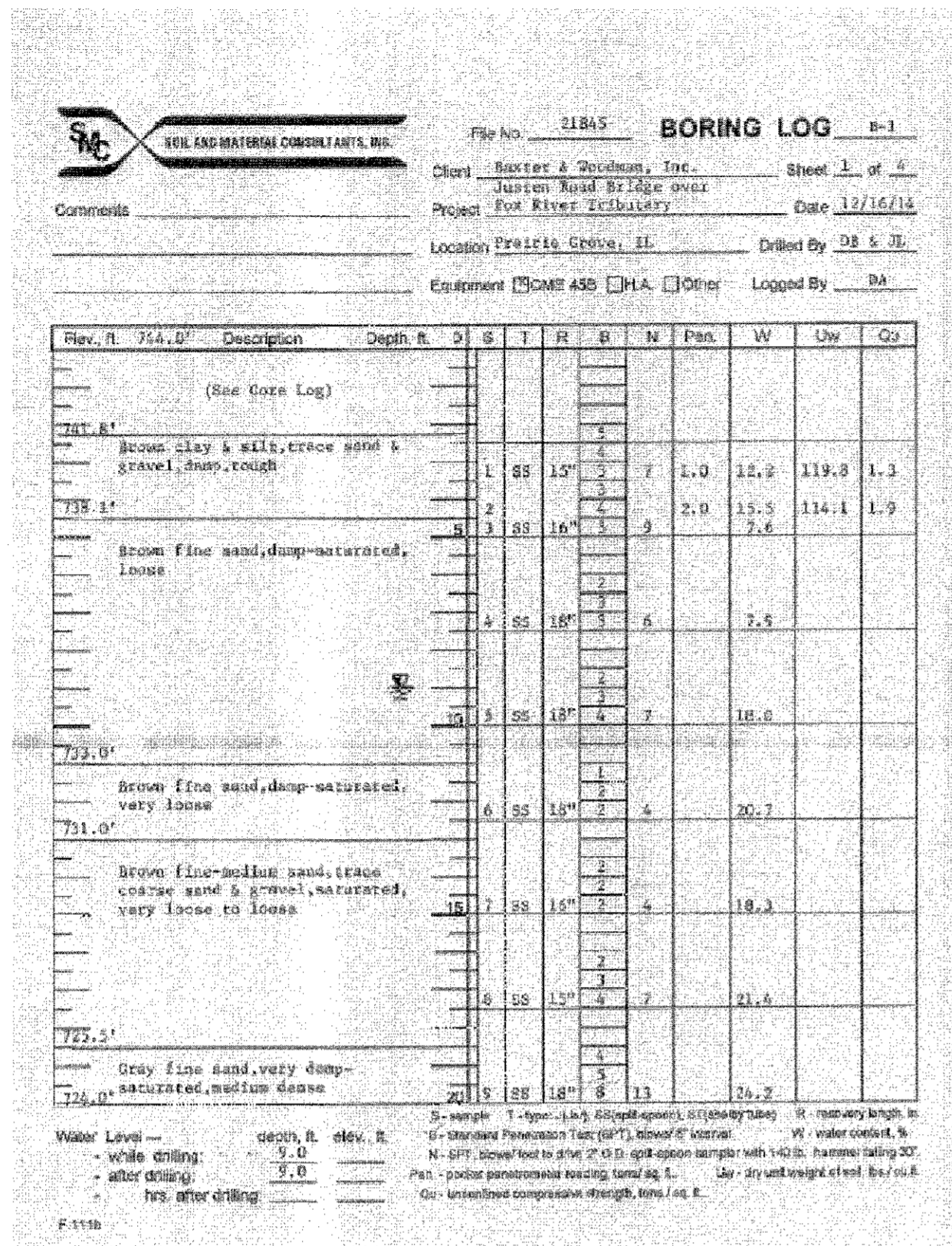
**STATE OF ILLINOIS**  
**DEPARTMENT OF TRANSPORTATION**

**STEEL RAILING, TYPE 2399**  
**STRUCTURE NO. 056-6009**

SHEET NO. 5 OF 6 SHEETS

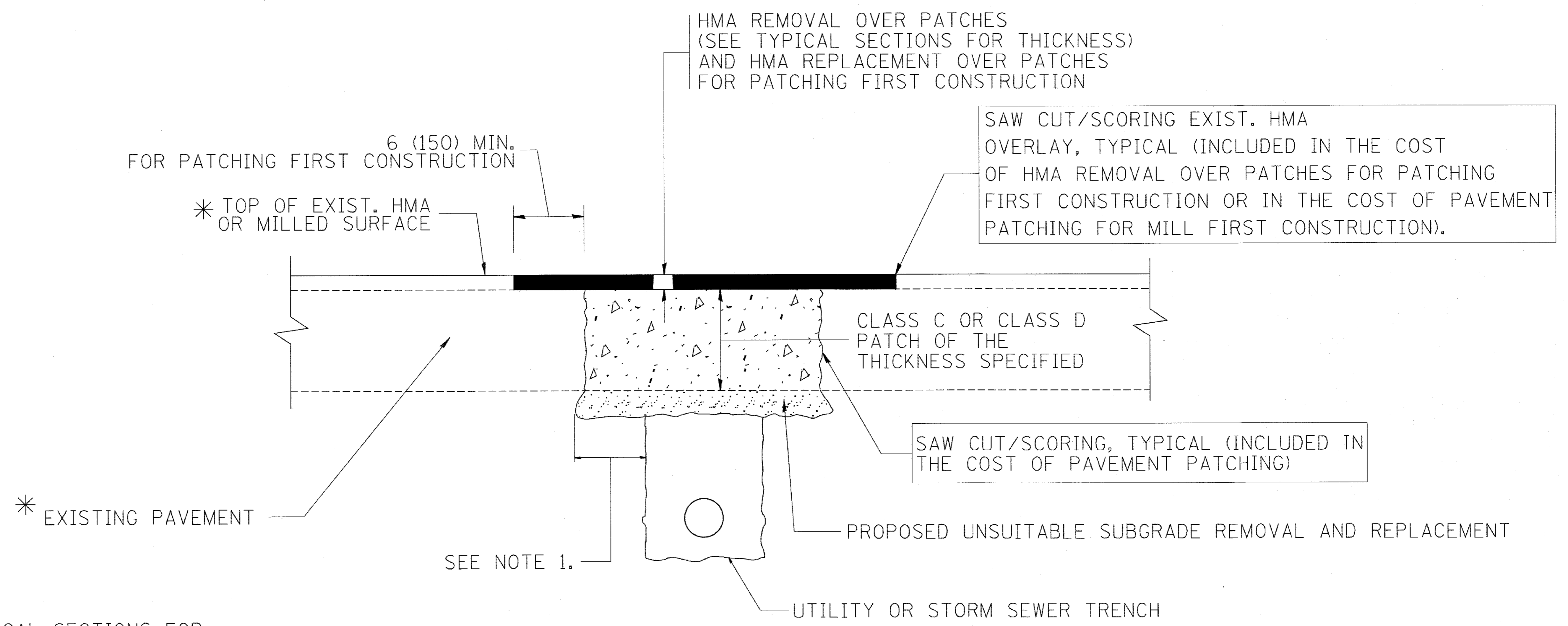
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0005	13-00009-00-BR	MCHENRY	38	26
				CONTRACT NO. 61E04
FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT				





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\* SEE TYPICAL SECTIONS FOR THICKNESS AND MATERIALS

**NOTES:**

1. THE WIDTH OF THE FULL DEPTH PATCH OVER A TRENCH SHALL BE 12 (300) WIDER ON EACH SIDE OF THE TRENCH.
2. FOR METHOD OF MEASUREMENT AND BASIS OF PAYMENT, SEE RECURRING SPECIAL PROVISION "PATCHING WITH HOT-MIX ASPHALT OVERLAY REMOVAL".

SEQUENCE OF CONSTRUCTION (PATCHING FIRST)

1. REMOVE THE EXISTING HMA MATERIAL OVER THE AREA TO BE PATCHED.
2. REMOVE AND REPLACE WITH CLASS C OR D PATCH.
3. REPLACE HMA MATERIAL OVER THE AREA TO BE PATCHED.

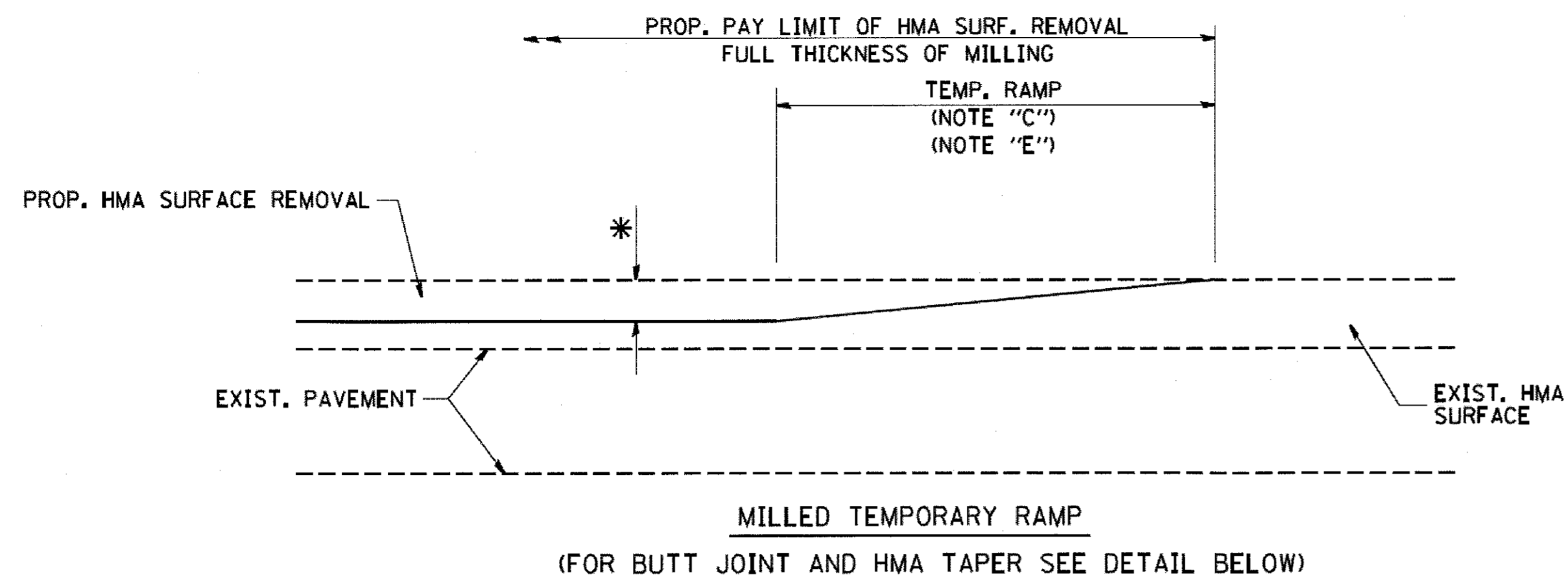
SEQUENCE OF CONSTRUCTION (MILLING FIRST)

1. MILL HMA FIRST IF THERE IS AT LEAST 4 1/2 INCHES OR MORE OF HMA MATERIAL ON TOP OF THE EXISTING PAVEMENT OR IF THE PAVEMENT IS FULL DEPTH HMA. A MINIMUM OF 2 INCHES OF HMA MATERIAL SHALL BE IN PLACE AFTER MILLING.
2. REMOVE AND REPLACE WITH FULL DEPTH CLASS D PATCHES TO TOP OF MILLED SURFACE.

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

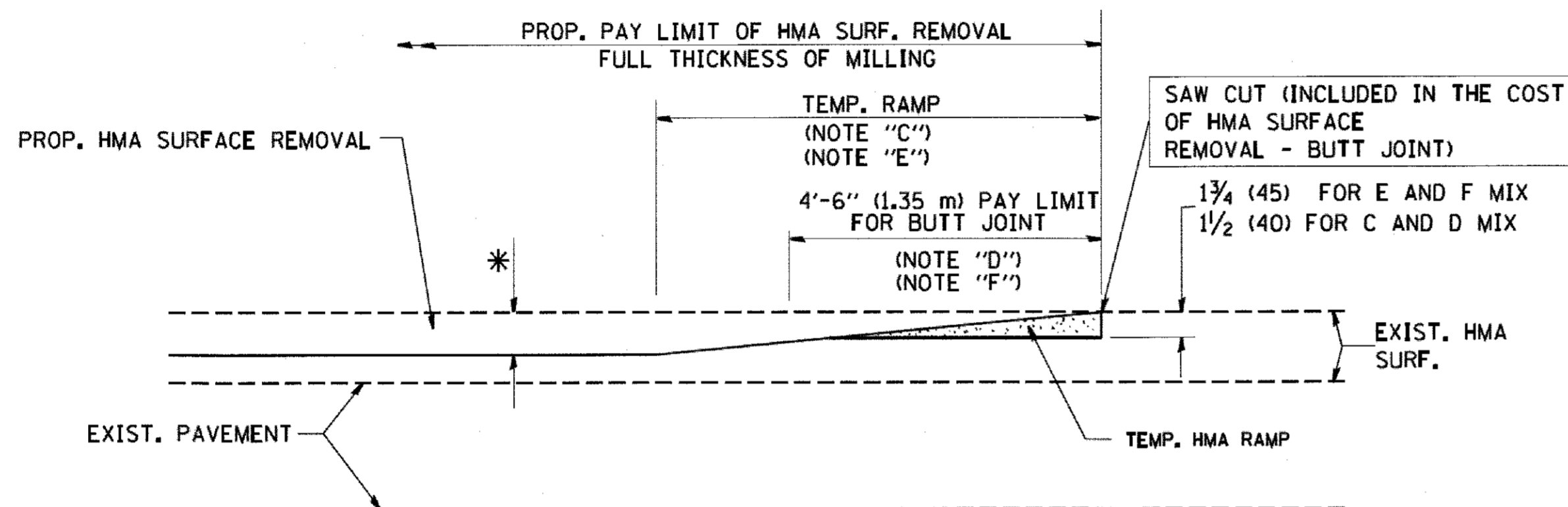
COPYRIGHT © 2017 BY BAXTER & WOODMAN, INC. ALL RIGHTS RESERVED. ILL. LICENSE NO. 184-00021 EXPIRES 4/30/2017. FILE NAME: c:\projects\dist\d22x34\bd22.dgn USER NAME: bauerdl DESIGNED - R. SHAH REVISED - A. ABBAS 04-27-98 DRAWN - CHECKED - DATE - 10-25-94 REVISED - R. BORO 01-01-07 REVISED - R. BORO 09-04-07 REVISED - K. ENG 10-27-08

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		PLOT SCALE = 50.000' / IN.	REVISED - R. BORO 09-04-07					<b>BD400-04 (BD-22)</b>		CONTRACT NO. 61E04			
		DATE - 10-25-94	REVISED - K. ENG 10-27-08					FED. ROAD DIST. NO. 1   ILLINOIS   FED. AID PROJECT					



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

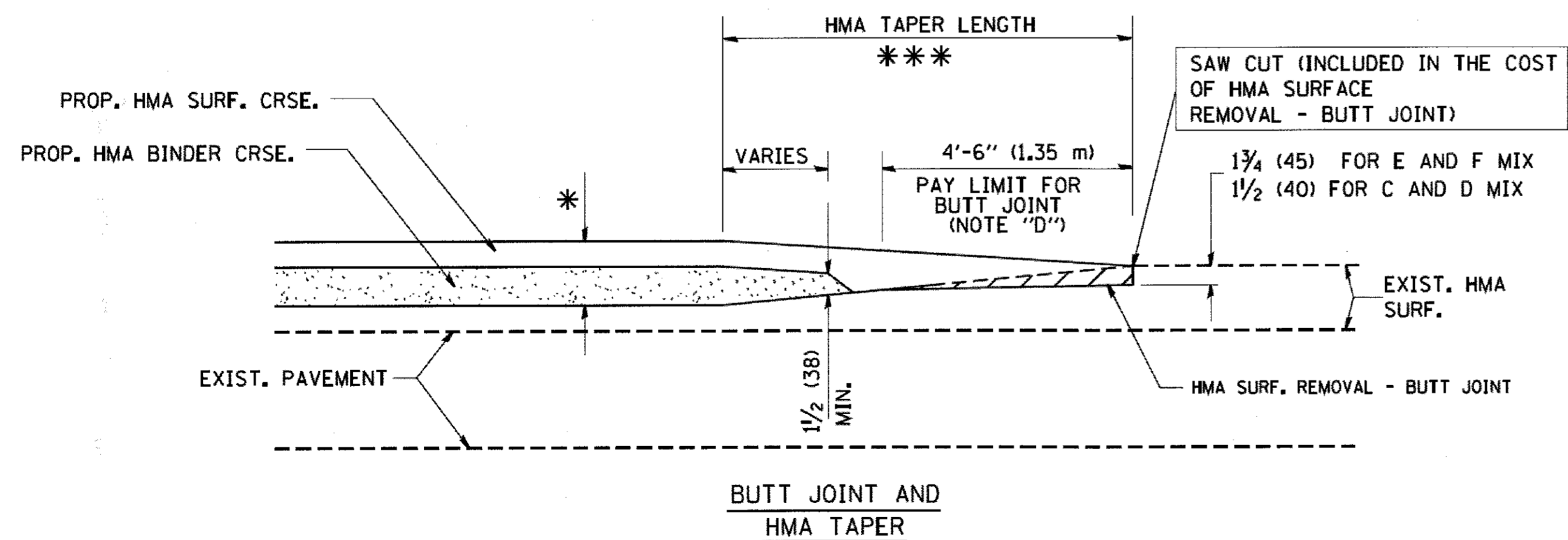
**OPTION 1**



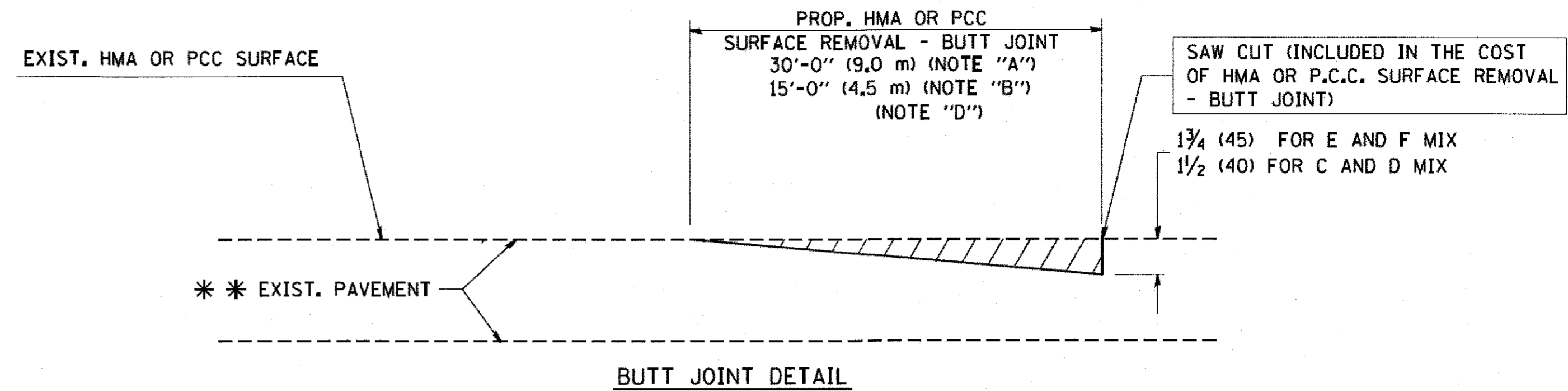
HMA CONSTRUCTED TEMPORARY RAMP  
(FOR BUTT JOINT AND HMA TAPER SEE DETAIL BELOW)

**OPTION 2**

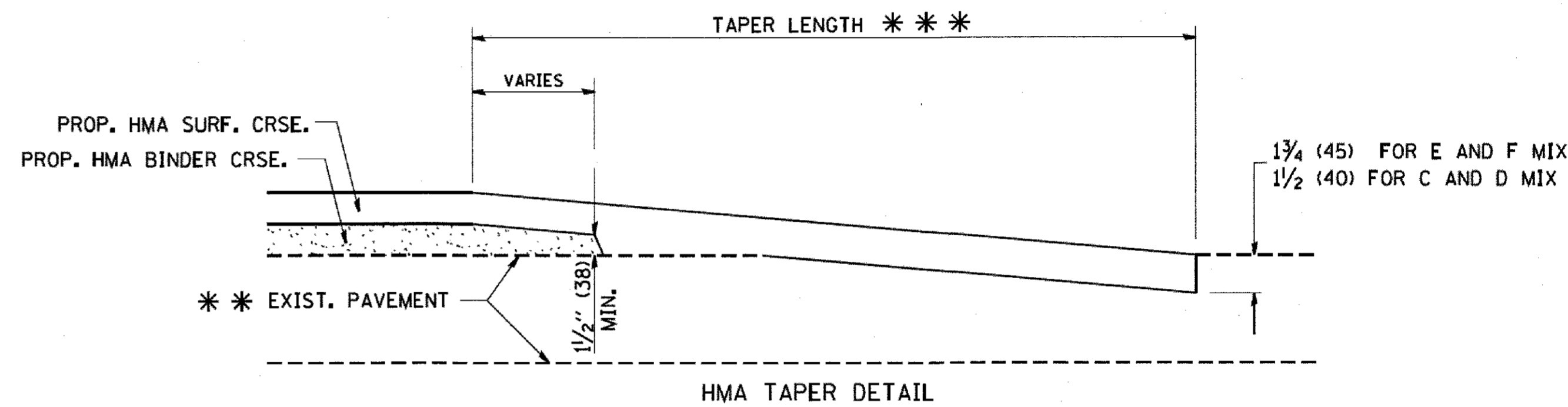
**TYPICAL TEMPORARY RAMP**



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



**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.

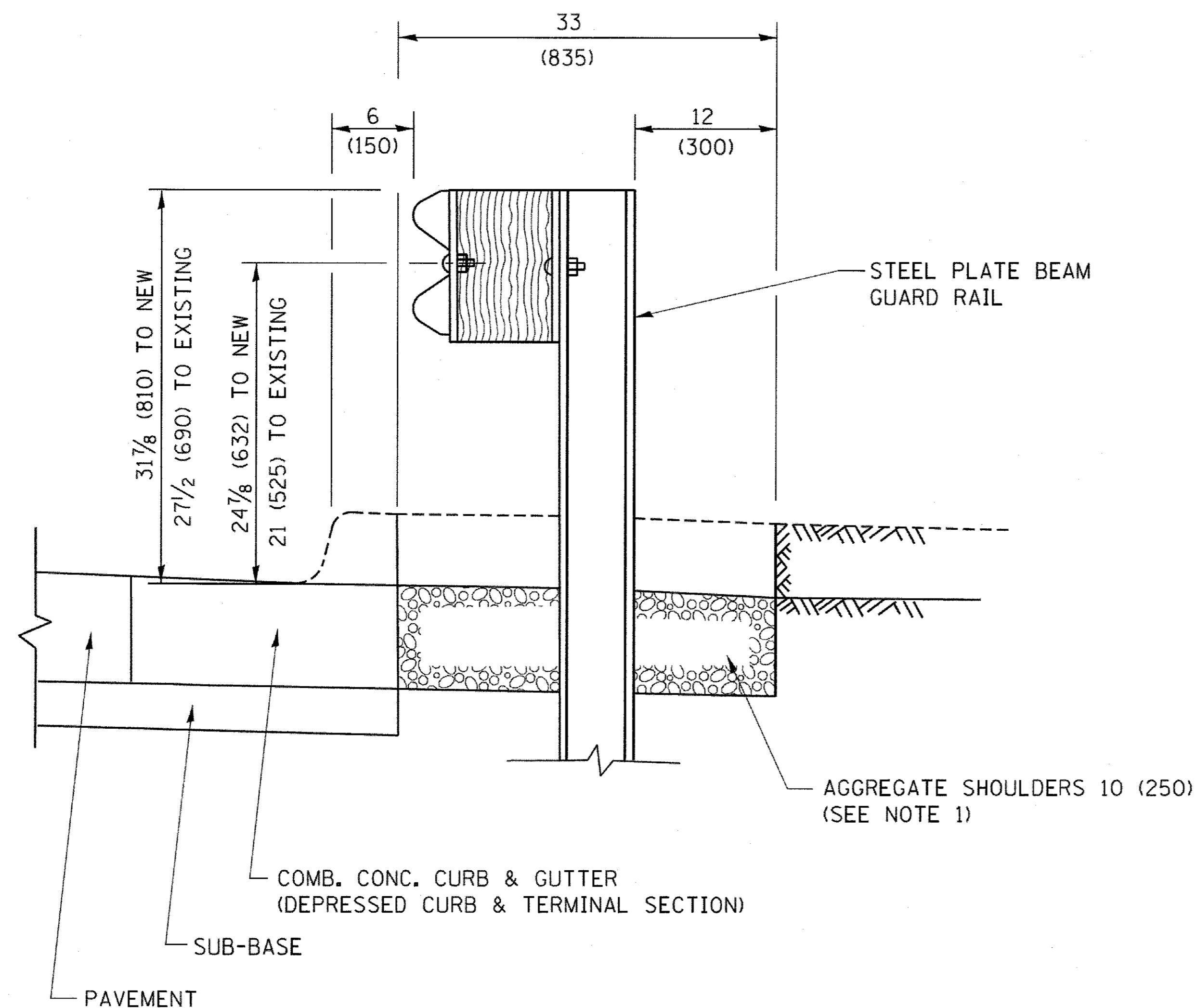
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	PLOT DATE = 1/4/2008	DATE - 06-13-90	REVISED - R. BORO 01-01-07

**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.

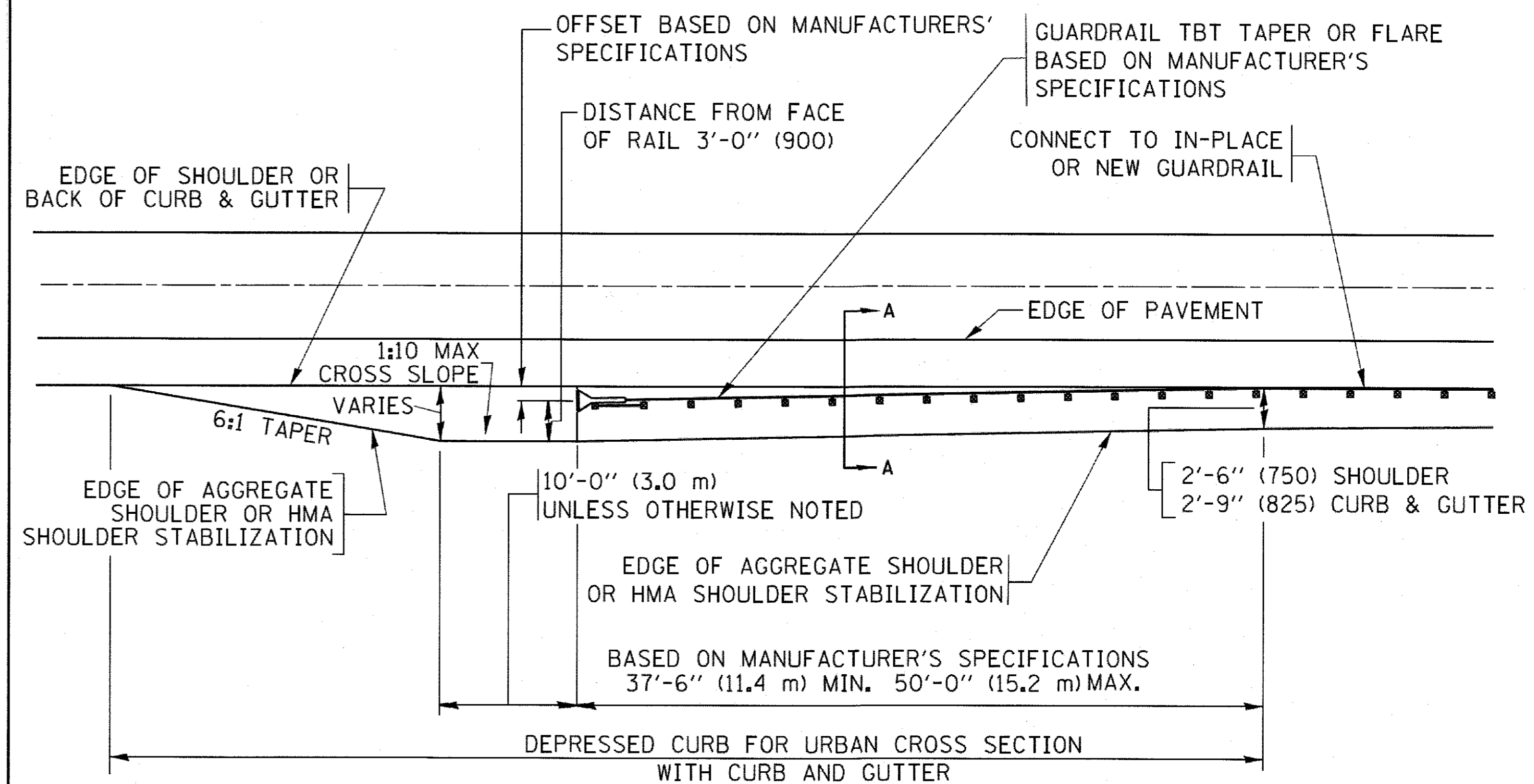
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<b>BD400-05 BD32</b>			CONTRACT NO. 61E04	
FED. ROAD DIST. NO. 1 (ILLINOIS) FED. AID PROJECT				



SECTION A-A

- NOTES:
1. THE AGGREGATE SHOULDER, 10 (250) OR HMA SHOULDER, 6 (150) (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.**

AGGREGATE SHOULDER, 10 (250) WILL BE PAID ACCORDING TO SECTION 481.

HMA SHOULDERS 6 (150) (IF REQUIRED) WILL BE PAID ACCORDING TO SECTION 482.

COMB. CONC. C&G, 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 = 12/21/2015	DATE - 09-22-90	REVISED - R. BORO 05-08-2015

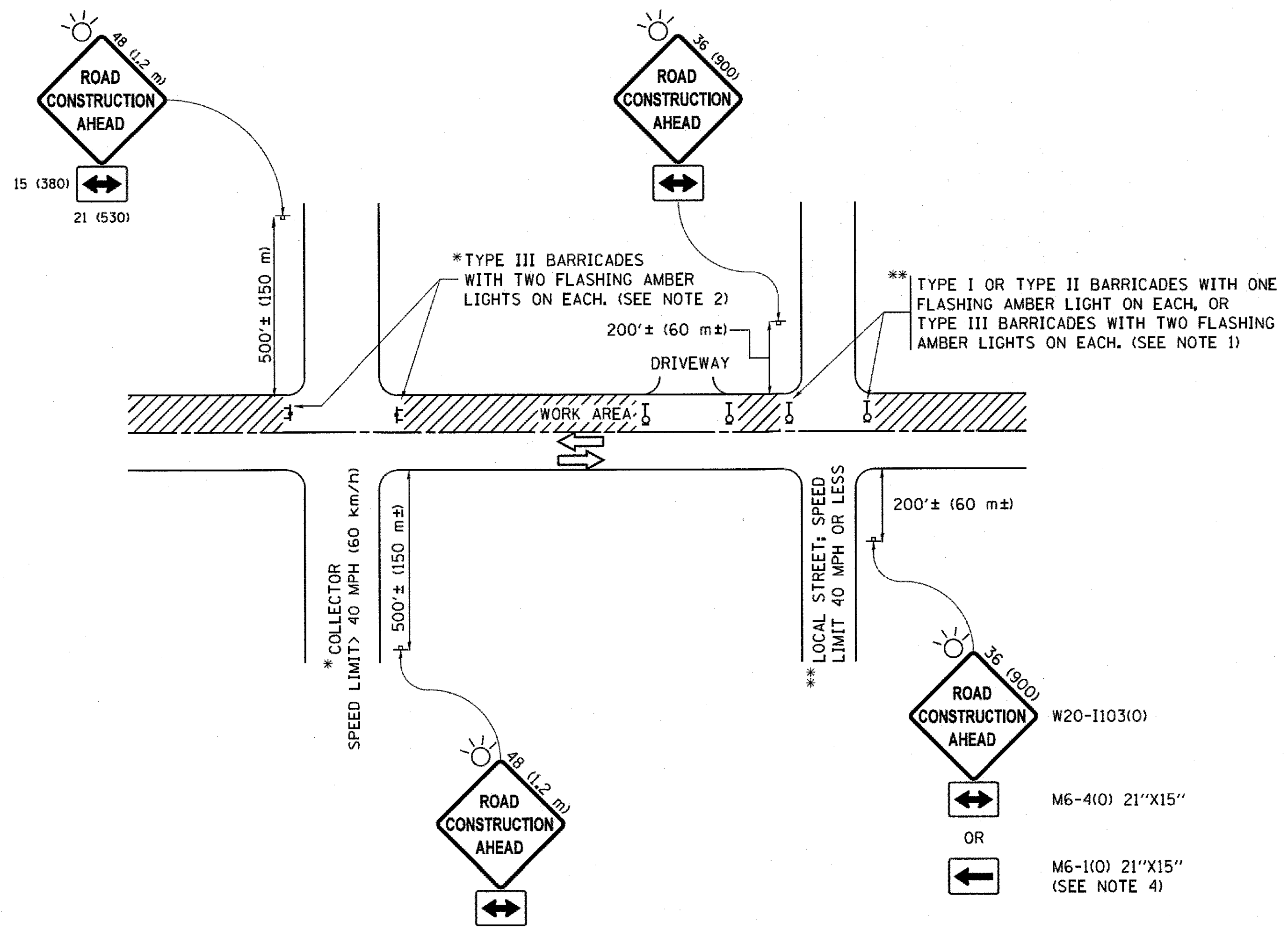
**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

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

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

MUN	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
0005	13-00009-00-BR	MCHENRY	38	30
BD600-10 (BD 34)			CONTRACT NO. 61E04	
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.

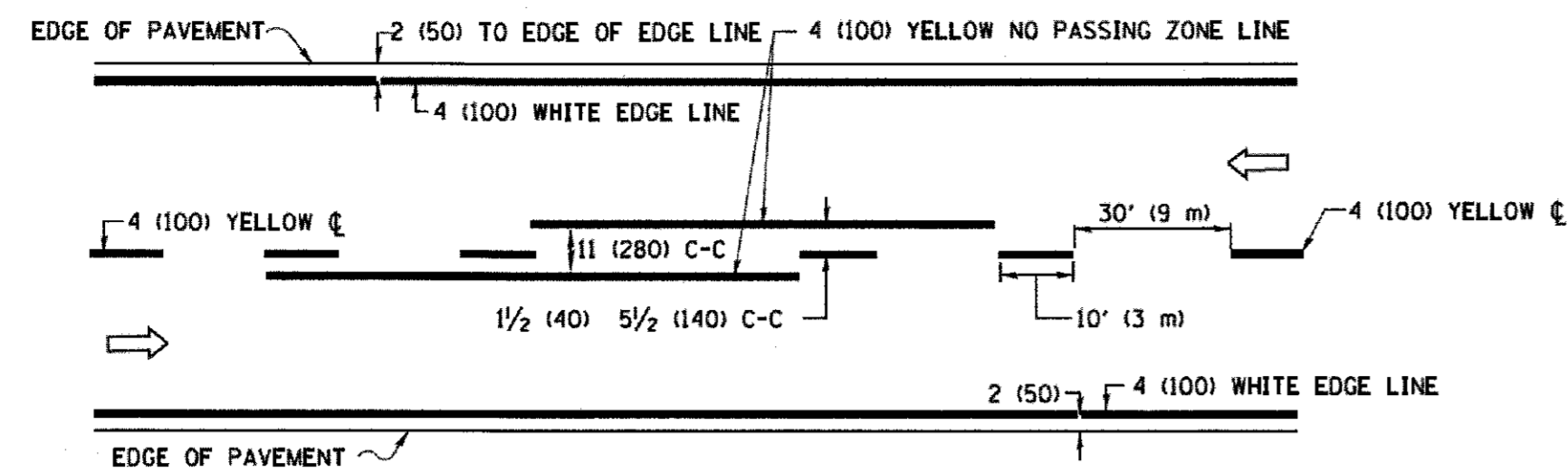
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...	...	DRAWN - CADData\CADsheets\tdl&dgn	REVISED - T. RAMMACHER 01-06-00
...	...	CHECKED -	REVISED - A. SCHUETZE 07-01-13
...	...	DATE - 06-89	REVISED - A. SCHUETZE 09-15-16

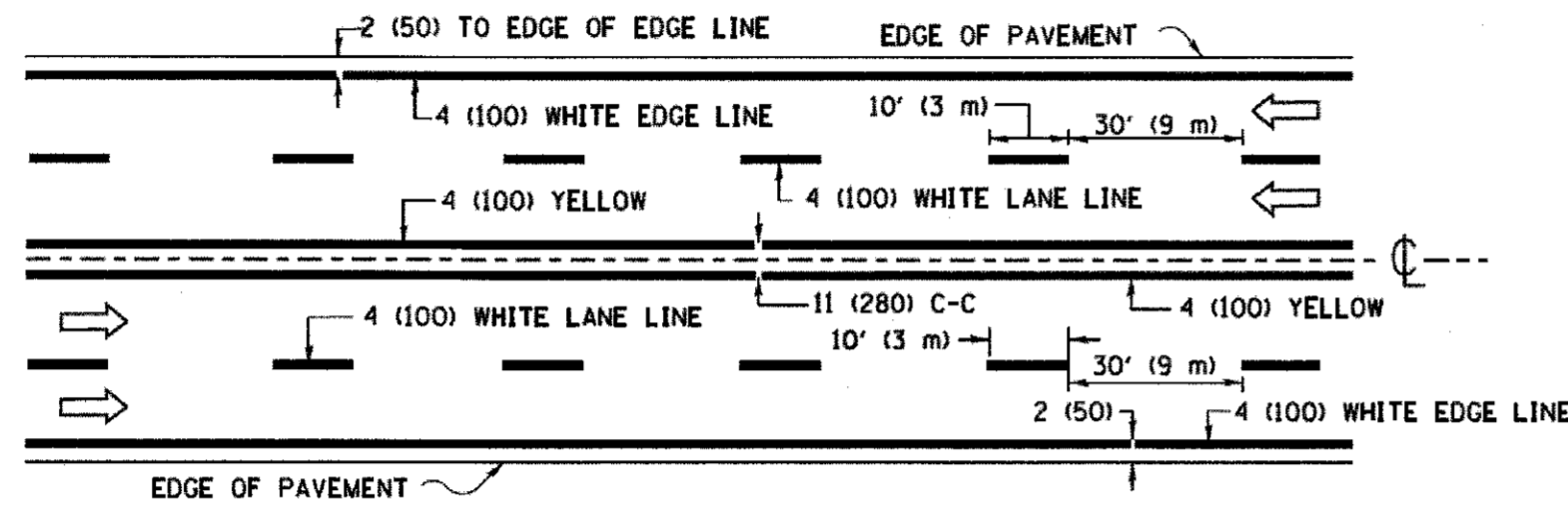
**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

TRAFFIC CONTROL AND PROTECTION FOR SIDE ROADS, INTERSECTIONS, AND DRIVEWAYS			
SCALE: NONE	SHEET 1	OF 1 SHEETS	STA. TO STA.

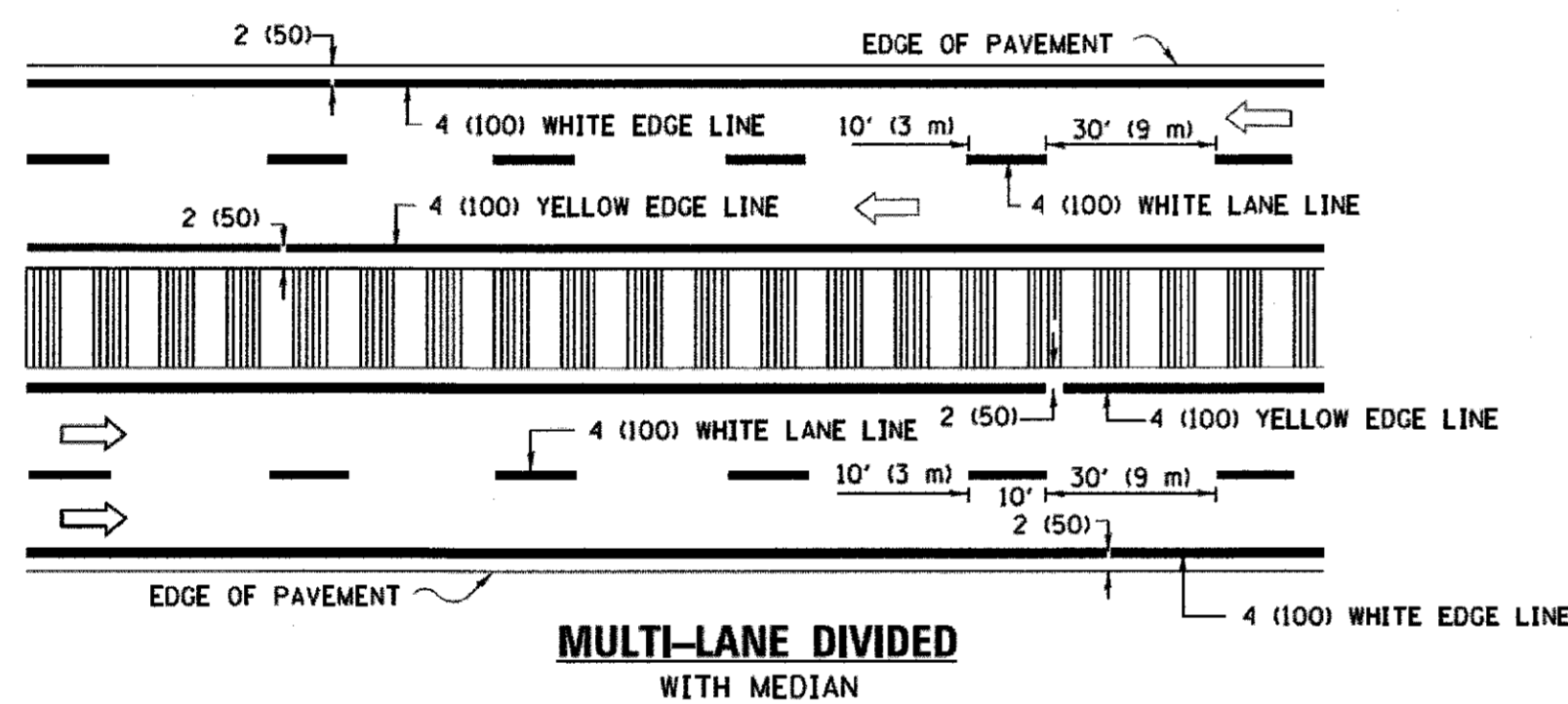
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0005	13-00009-00-BR	MCHENRY	38	31
<b>TC-10</b>			CONTRACT NO. 61E04	
ILLINOIS FED. AID PROJECT				



**2-LANE ROADWAY**

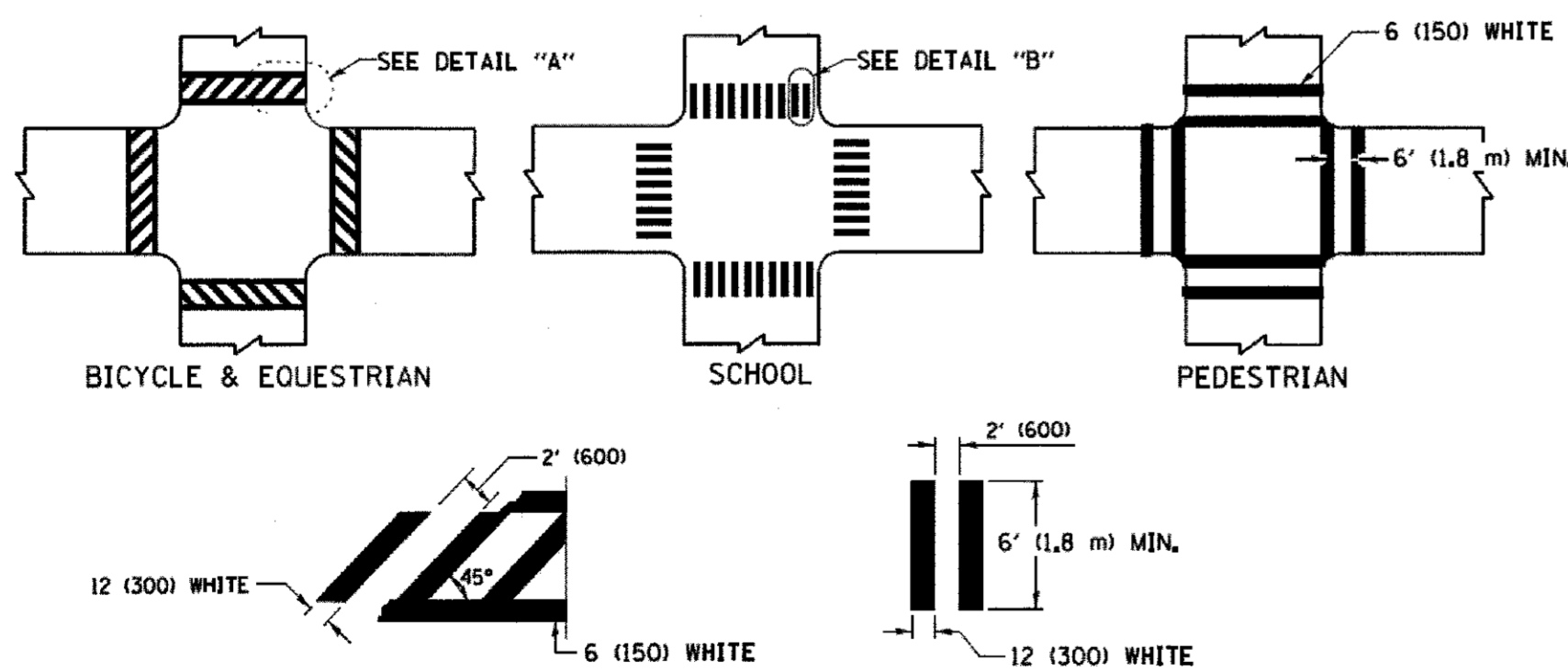


**MULTI-LANE UNDIVIDED**



**MULTI-LANE DIVIDED WITH MEDIAN**

**TYPICAL LANE AND EDGE LINE MARKING**

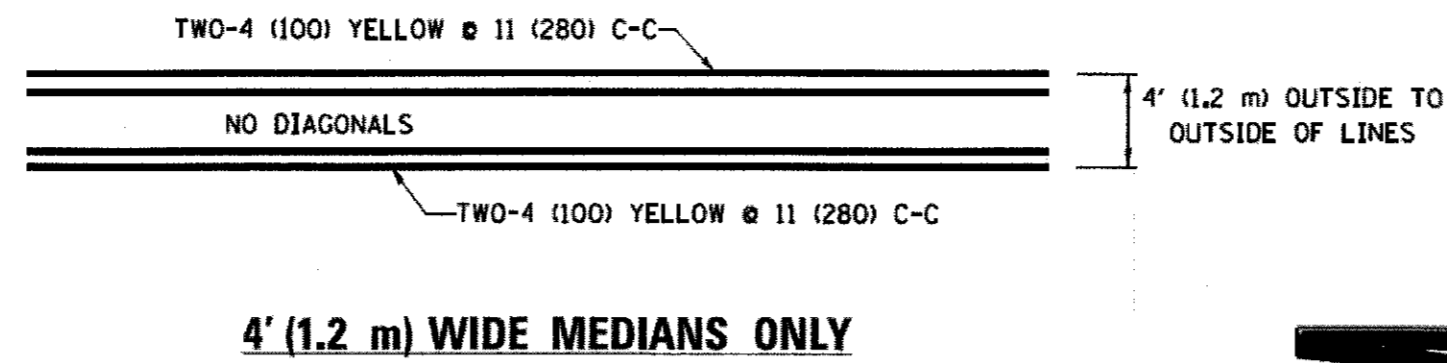


**DETAIL "A"**

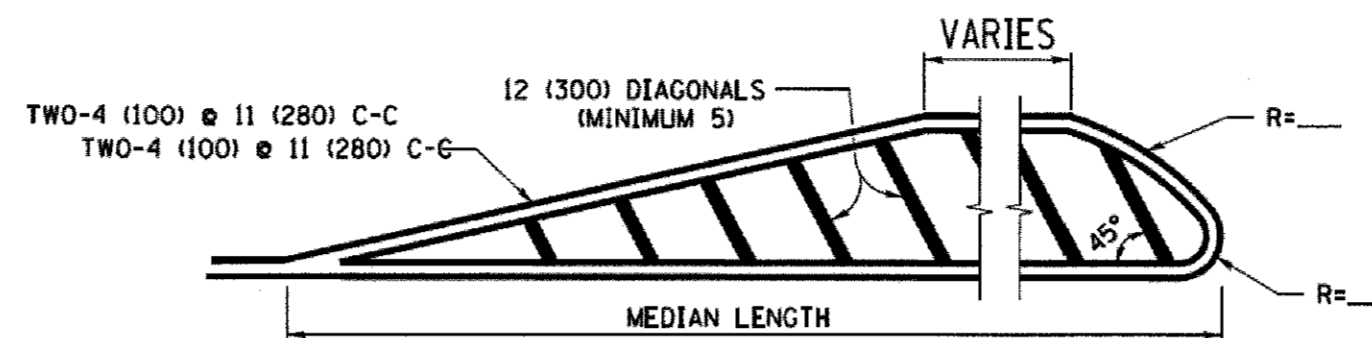
**DETAIL "B"**

**TYPICAL CROSSWALK MARKING**

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

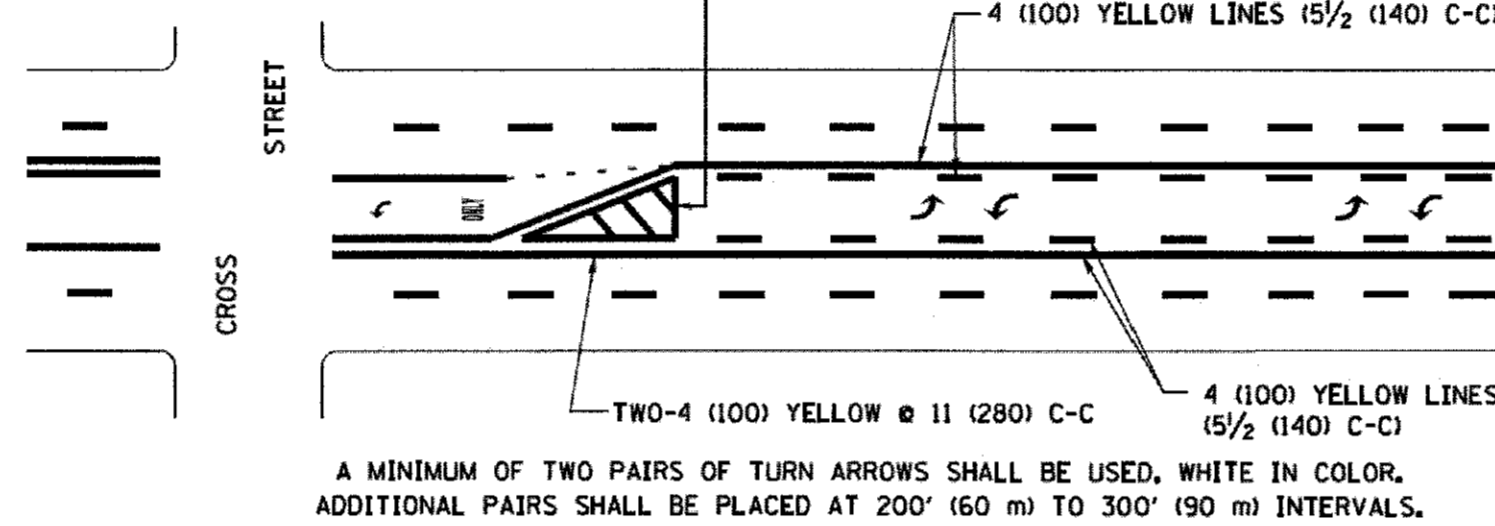


**4' (1.2 m) WIDE MEDIANS ONLY**

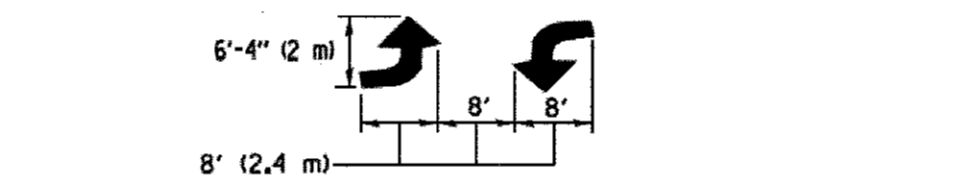


**MEDIANS OVER 4' (1.2 m) WIDE**

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**

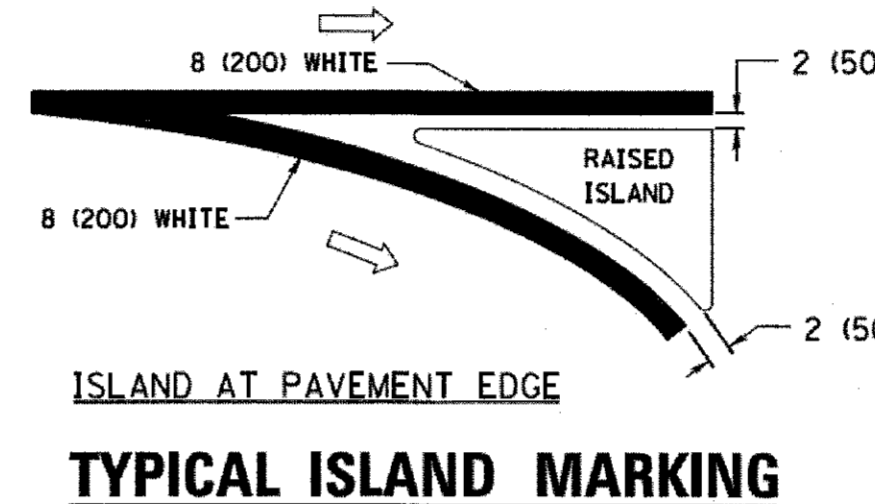
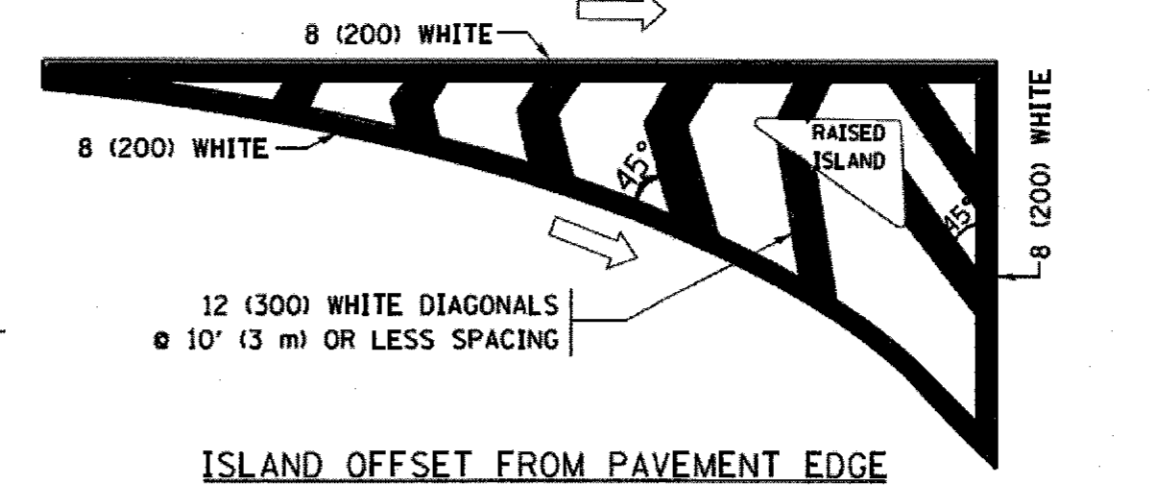


**TYPICAL LEFT (OR RIGHT) TURN LANE**

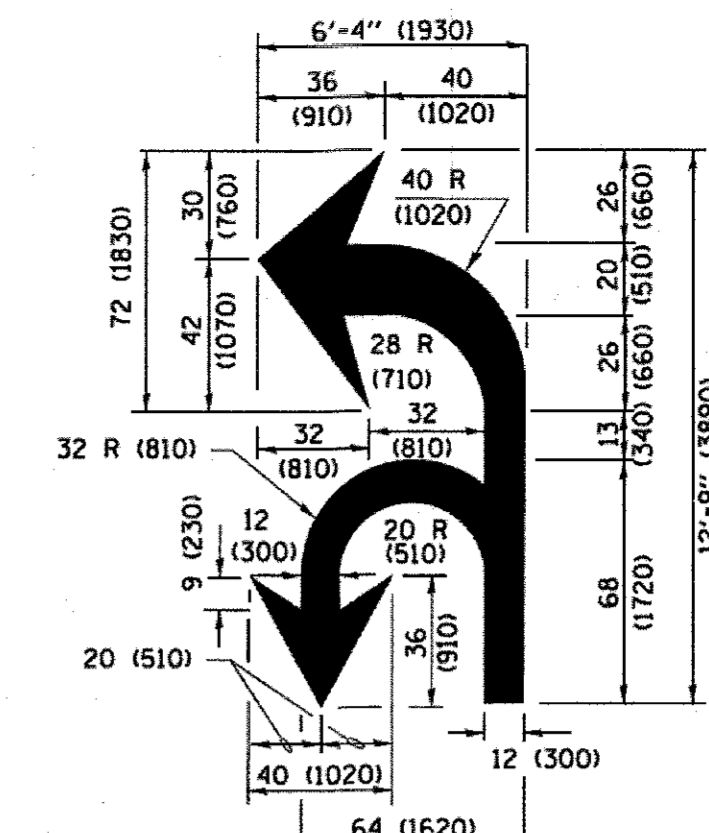
**TYPICAL TURN LANE MARKING**

FULL SIZE LETTERS 8' (2.4 m) AND ARROWS SHALL BE USED. AREA = 15.6 SQ. FT. (1.5 m<sup>2</sup>) 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 ISLAND MARKING**



**COMBINATION LEFT AND U-TURN**

**U-TURN**

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

**LANE REDUCTION TRANSITION**

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

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 AND SOLID IN PAIRS 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.
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" IS 6' (1.8 m) LETTERS; 16 (400) LINE FOR "X"	SOLID	WHITE	SEE STATE STANDARD 780001 AREA OF "RR" IS 3.6 SQ. FT. (0.33 m <sup>2</sup> ) EACH "X" IS 54.0 SQ. FT. (5.0 m <sup>2</sup> )
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	PLOT SCALE = 50.000' / 1" =	DATE - 03-19-90	REVISED - C. JUCIUS 12-21-15	MUN 0005 SECTION 13-00009-00-BR COUNTY MCHENRY TOTAL SHEETS 38 SHEET NO. 32
	PLOT DATE = 4/13/2016	DATE - 03-19-90	REVISED - C. JUCIUS 04-12-16	TC-13 CONTRACT NO. 61E04

SCALE: NONE	SHEET 1 OF 1 SHEETS	STA. TO STA.	ILLINOIS FED. AID PROJECT
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**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

M6-1-2115

M6-3-2115

**CARDINAL DIRECTION & DETOUR SIGNS**

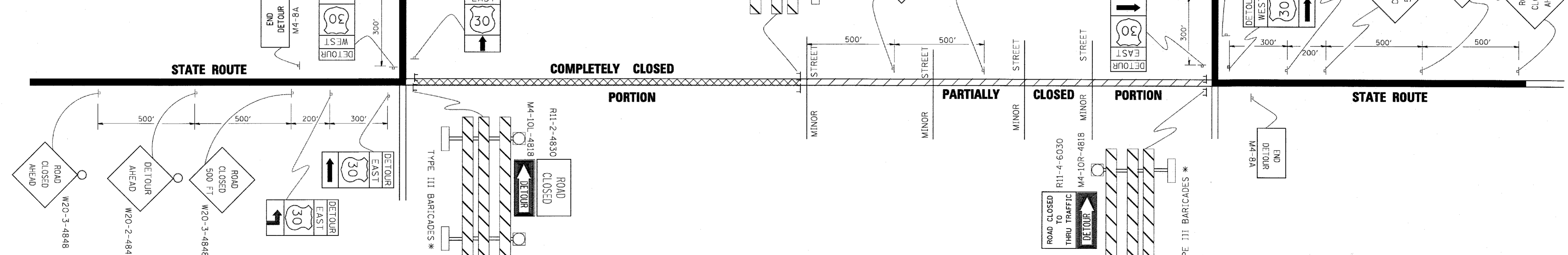
NORTH M3-1-2412

EAST M3-2-2412

SOUTH M3-3-2412

WEST M3-4-2412

DETOUR M4-8-2412



\* IF A TYPE III BARRICADE WITH AN ATTACHED SIGN PANEL WHICH MEETS NCHRP 350 REQUIREMENTS IS NOT AVAILABLE, THE SIGNS SHALL BE MOUNTED, ABOVE THE BARRICADES, ON SEPARATE SIGNS SUPPORTS THAT MEET NCHRP 350 REQUIREMENTS.

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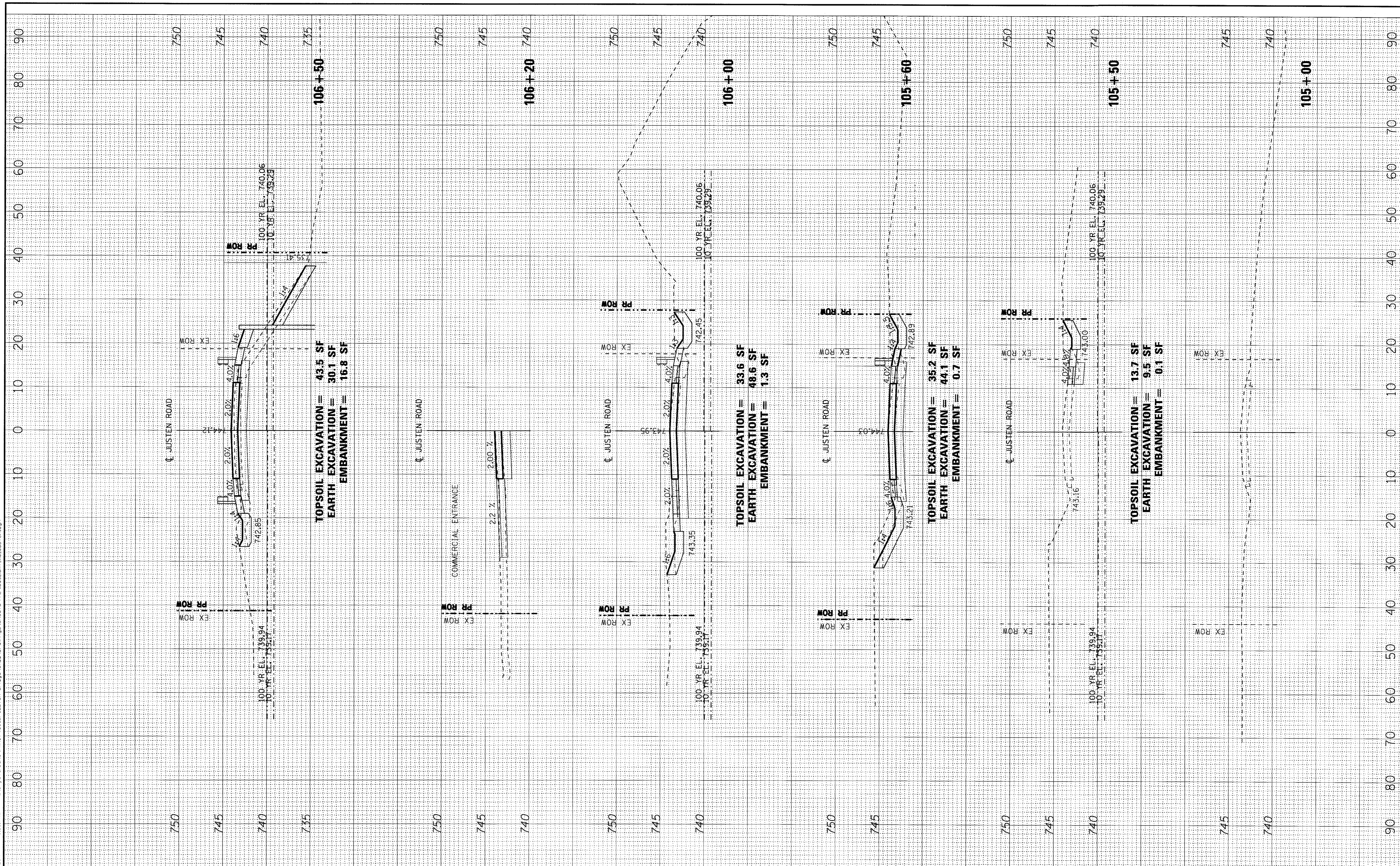
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DEPARTMENT OF TRANSPORTATION**

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MUN	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
0005	13-00009-00-BR	MCHENRY	38	33
TC-21			CONTRACT NO. 61E04	
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CHECKED - JJF	REVISED -
DATE - 8-4-17	REVISED -

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

**CROSS SECTIONS - JUSTEN RD**

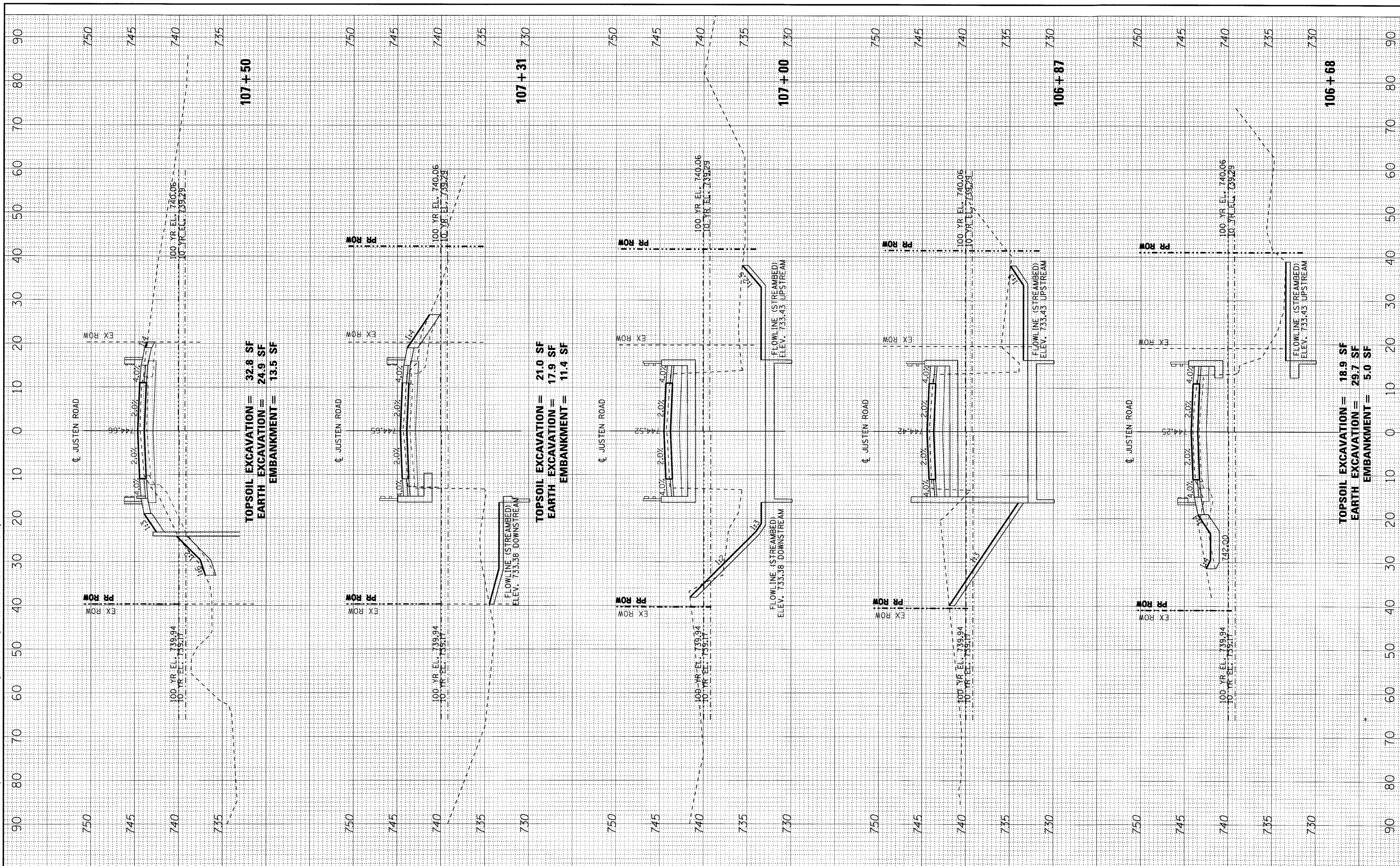
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STA. 105+00 TO STA. 106+50

MUN	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
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FED. ROAD DIST. NO.			ILLINOIS FED. AID PROJECT	
			CONTRACT NO. 61E04	



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**TOPSOIL EXCAVATION = 32.8 SF**  
**EARTH EXCAVATION = 24.9 SF**  
**EMBANKMENT = 13.5 SF**

**TOPSOIL EXCAVATION = 21.0 SF**  
**EARTH EXCAVATION = 17.9 SF**  
**EMBANKMENT = 11.4 SF**

**TOPSOIL EXCAVATION = 18.9 SF**  
**EARTH EXCAVATION = 29.7 SF**  
**EMBANKMENT = 5.0 SF**



DESIGNED - CAC	REVISED -
DRAWN - CJC	REVISED -
CHECKED - JJF	REVISED -
DATE - 8-4-17	REVISED -

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

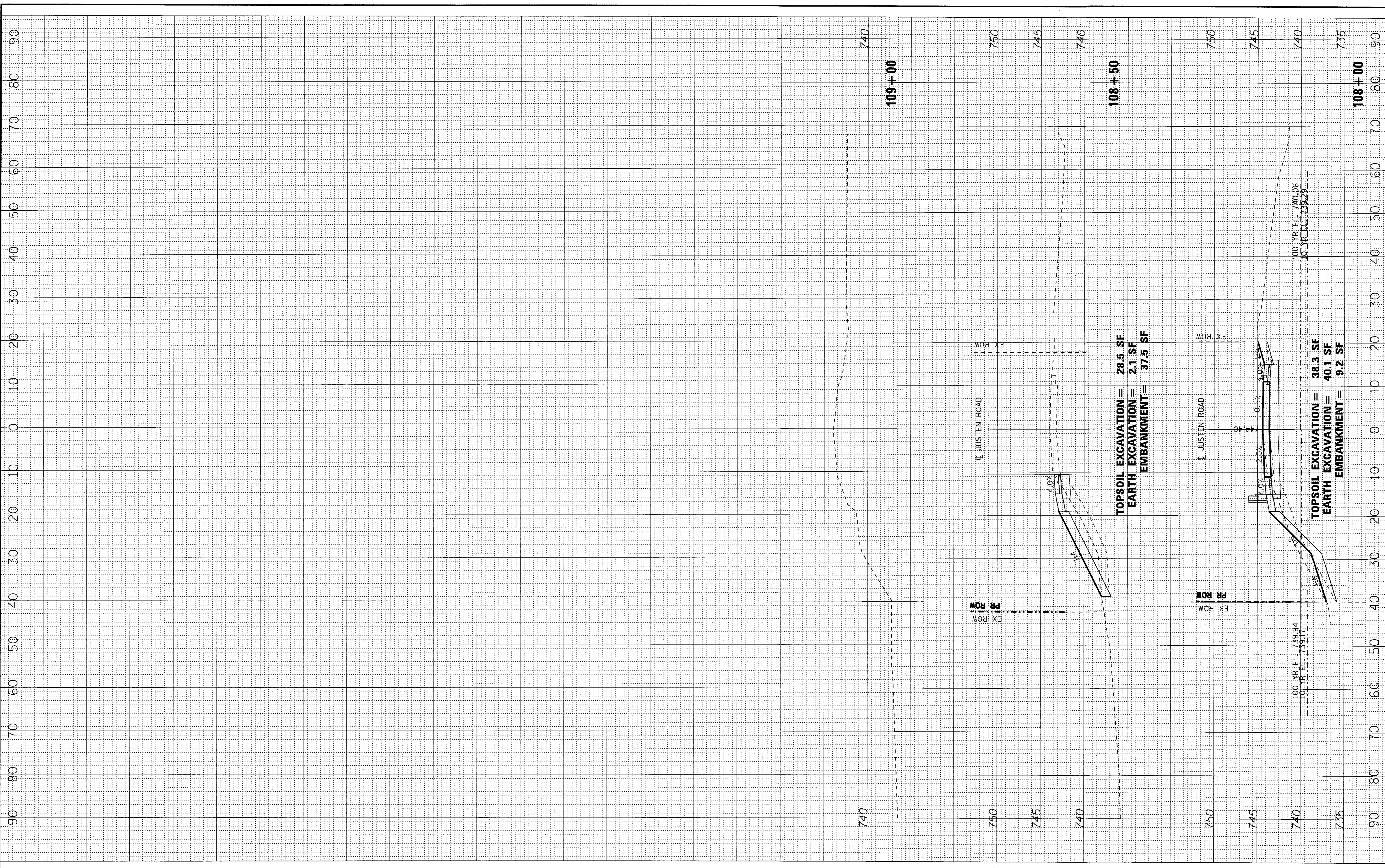
**CROSS SECTIONS - JUSTEN RD**

SCALE: H: 1"=10' V: 1"=5'  
 STA. 106+68 TO STA. 107+50

MUN	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
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FED. ROAD DIST. NO. ILLINOIS FED. AID PROJECT			CONTRACT NO. 61E04	



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DATE - 8-4-17	REVISED -

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

**CROSS SECTIONS - JUSTEN RD**

SCALE: H: 1"=10' V: 1"=5'  
 STA. 108+00 TO STA. 109+00

MUN	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
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FED. ROAD DIST. NO.			ILLINOIS FED. AID PROJECT	
			CONTRACT NO. 61E04	







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 PROJECT: BRIDGE OVER FOX RIVER TRIBUTARY  
 SHEET: BRIDGE CROSS SECTIONS  
 DATE: 9/18/2017



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DRAWN - CJC	REVISED -
CHECKED - JJF	REVISED -
DATE - 8-4-17	REVISED -

STATE OF ILLINOIS  
 DEPARTMENT OF TRANSPORTATION

CROSS SECTIONS - CREEK

SCALE: H: 1"=10' V: 1"=5'

STA. 202+23 TO STA. 202+80

MUN	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
0005	13-00009-00-BR	MCHENRY	38	38
FED. ROAD DIST. NO.			ILLINOIS FED. AID PROJECT	
			CONTRACT NO. 61E04	

