

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

FOR INDEX OF SHEETS, SEE SHEET NO. 2
FOR INDEX OF HIGHWAY STANDARDS, SEE SHEET NO. 2
PROJECT LOCATED IN RICHMOND TOWNSHIP.

STATE OF ILLINOIS 03-09-12 LETTING ITEM 126

TR	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
21	08-00356-00-BR	MCHENRY	67	1
FED. ROAD DIST. NO. 1		ILLINOIS	CONTRACT NO. 63666	

+1=68

DEPARTMENT OF TRANSPORTATION
DIVISION OF HIGHWAYS

PLANS FOR PROPOSED FEDERAL AID HIGHWAY

HILL ROAD OVER NORTH BRANCH NIPPERSINK CREEK
SECTION: 08-00356-00-BR
PROJECT NO: BROS-0111 (053)
BRIDGE REPLACEMENT
MCHENRY COUNTY
JOB NO: C-91-099-09



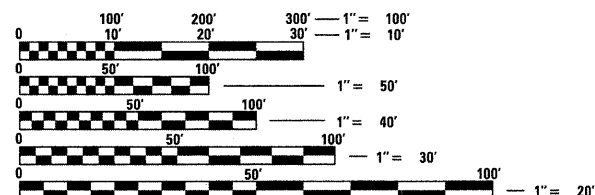
SA
STRAND ASSOCIATES*
1170 SOUTH HOLSOLT ROAD
JOLIET, ILLINOIS 60431
ORIS 744-4800

TRAFFIC DATA

HILL ROAD
POSTED SPEED LIMIT = 45 MPH
DESIGN SPEED LIMIT = 50 MPH
2005 ADT = 1200
2030 ADT = 6000

DESIGN DESIGNATION:

HILL ROAD: 3585(12) URBAN LOCAL 0.27 (FD-20)

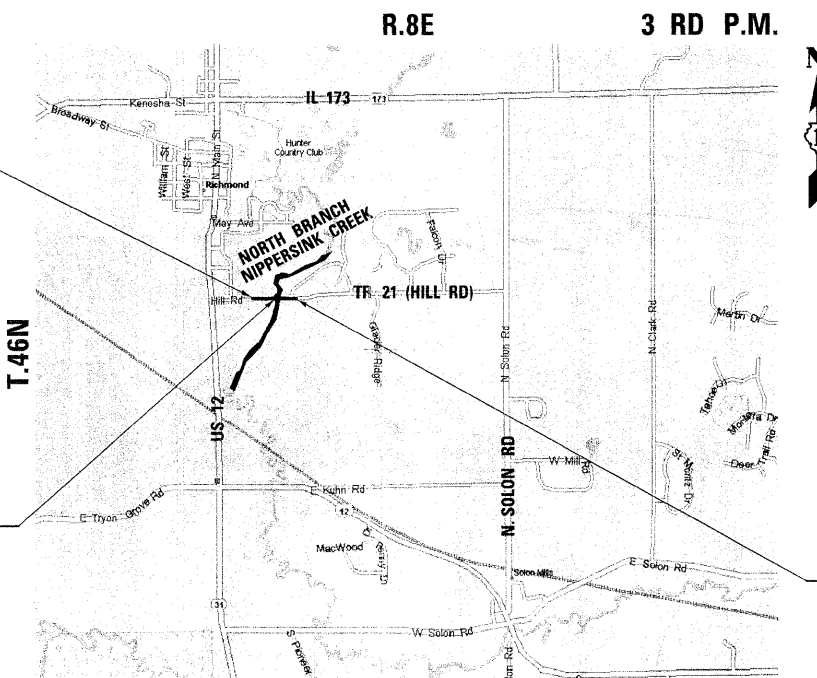


FULL SIZE PLANS HAVE BEEN PREPARED USING STANDARD ENGINEERING SCALES. REDUCED SIZED PLANS WILL NOT CONFORM TO STANDARD SCALES. IN MAKING MEASUREMENTS ON REDUCED PLANS, THE ABOVE SCALES MAY BE USED.

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

HILL ROAD
IMPROVEMENT BEGIN
STA. 103 + 00

STRUCTURE REMOVAL
AND REPLACEMENT
STA. 109 + 89.00
(EXISTING S.N. 056-3045)
(PROPOSED S.N. 056-3192)
HILL ROAD OVER
NORTH BRANCH OF
NIPPERSINK CREEK



LOCATION MAP
NOT TO SCALE

RICHMOND TOWNSHIP

GROSS LENGTH OF IMPROVEMENT = 1035 LF OR (0.20 MILES)

NET LENGTH OF IMPROVEMENT = 1035 LF OR (0.20 MILES)

HILL ROAD
IMPROVEMENT END
STA. 113 + 35

STRAND ASSOCIATES, INC.
ANTHONY J. STANDISH, P.E. S.E.
THIS STAMP APPLIES TO
DRAWINGS:

DATE: 12-30-2011 EXP: 11-30-13

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION
DIVISION OF HIGHWAYS

Approved December 22, 2011
Joseph R. Trzaskowski Jr.
County of McHenry, County Engineer

Passed January 4, 2012
C. J. H. H. H.
District 1 Engineer of Local Roads & Streets

Releasing for Bid
Based on Limited
Review JANUARY 4, 2012
Diana M. O'Neil
Deputy Director of Highways, Region 1 Engineer

**PRINTED BY THE AUTHORITY
OF THE STATE OF ILLINOIS**

CONTRACT NO. 63666

HIGHWAY STANDARDS

000001-06	STANDARD SYMBOLS, ABBREVIATIONS AND PATTERNS
001001-02	AREAS OF REINFORCEMENT BARS
280001-06	TEMPORARY EROSION CONTROL SYSTEMS
420401-08	BRIDGE APPROACH PAVEMENT CONNECTOR
482001-02	HMA SHOULDER ADJACENT TO FLEXIBLE PAVEMENT
515001-03	NAME PLATE FOR BRIDGES
542301-03	PRECAST REINFORCED CONCRETE FLARED END SECTION
601001-04	SUB-SURFACE DRAINS
601101-01	CONCRETE HEADWALL FOR PIPE DRAINS
602011-02	CATCH BASIN TYPE C
604091-02	FRAME AND GRATE TYPE 24
606001-04	CONCRETE CURB TYPE B AND COMBINATION CONCRETE CURB AND GUTTER
630001-10	STEEL PLATE BEAM GUARDRAIL
630201-06	PCC/HMA STABILIZATION AT STEEL PLATE BEAM GUARDRAIL
630301-05	SHOULDER WIDENING FOR TYPE 1 (SPECIAL) GUARDRAIL TERMINALS
635006-03	REFLECTOR AND TERMINAL MARKER PLACEMENT
635011-02	REFLECTOR MARKER AND MOUNTING DETAILS
701001-02	OFF-ROAD OPERATIONS, 2L, 2W, MORE THAN 4.5M (15') AWAY
701006-03	OFF-ROAD OPERATIONS, 2L, 2W, MORE THAN 4.5M (15') FROM PAVEMENT EDGE
701011-02	OFF-ROAD MOVING OPERATIONS, 2L, 2W, DAY ONLY
701901-02	TRAFFIC CONTROL DEVICES
781001-03	TYPICAL APPLICATIONS RAISED REFLECTIVE PAVEMENT MARKERS
BLR24-2	MAILBOX TURNOUT-LOCAL ROADS

DISTRICT ONE STANDARD DETAILS

BD01	DRIVEWAY DETAILS-DISTANCE BETWEEN R.O.W. AND FACE OF CURB AND EDGE OF SHOULDER >= 15' (4.5 m)
BD34	DETAILS FOR DEPRESSED CURB AND GUTTER AND SHOULDER TREATMENT AT TBT TY 1 SPL.
BD51	BENCHING DETAIL FOR EMBANKMENT WIDENING
TC10	TRAFFIC CONTROL AND PROTECTION FOR SIDE ROADS, INTERSECTIONS, AND DRIVEWAYS
TC11	TYPICAL APPLICATIONS RAISED REFLECTIVE PAVEMENT MARKERS (SNOW-PLOW RESISTANT)
TC13	DISTRICT ONE TYPICAL PAVEMENT MARKINGS
TC22	ARTERIAL ROAD INFORMATION SIGN
TC26	DRIVEWAY ENTRANCE SIGNING

MCHENRY COUNTY DIVISION OF TRANSPORTATION STANDARD DETAILS

- URETHANE FOAM/GEOTEXTILE DITCH CHECKS
- RECESSED PAVEMENT MARKING DETAIL
- SHOULDER DETAIL
- TRAFFIC BARRIER TERMINAL TYPE 6A (SPECIAL)

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 1170 SOUTH HOUBOLT ROAD JOLIET, ILLINOIS 60431 (815) 744-4200	USER NAME = brianf DESIGNED <i>TJS</i> DRAWN <i>BJF</i> PLOT SCALE = 50,0000 "/>	REVISIONS REVISIONS REVISIONS REVISIONS	MCHENRY COUNTY DIVISION OF TRANSPORTATION HILL ROAD BRIDGE OVER NORTH BRANCH NIPPERSINK CREEK	INDEX OF SHEETS, HIGHWAY STANDARDS, AND DISTRICT ONE STANDARD DETAILS		TR	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	PLOT DATE = 1/3/2012 DATE -	SCALE: AS SHOWN				SHEET NO.	OF	SHEETS	STA.	TO STA.

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," THE "SUPPLEMENTAL SPECIFICATIONS AND RECURRING SPECIAL PROVISIONS, THE "STANDARD SPECIFICATIONS FOR TRAFFIC CONTROL ITEMS", 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 ARE APPROXIMATE AND THE COUNTY DOES NOT GUARANTEE THEIR ACCURACY. THE CONTRACTOR SHALL HAVE THE RESPECTIVE UTILITY COMPANIES FIELD LOCATE ALL THEIR FACILITIES PRIOR TO BEGINNING CONSTRUCTION. THE CONTRACTOR SHALL ALSO VERIFY THE DEPTHS OF THE EXISTING UTILITIES IF NECESSARY. THE CONTRACTOR SHALL NOTIFY J.U.L.I.E. AT (800) 892-0123 AND ALL PUBLIC AND PRIVATE UTILITIES BEFORE STARTING CONSTRUCTION. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE MAINTENANCE AND PRESERVATIONS OF THESE FACILITIES. ANY RELOCATION OR LOWERING OF UTILITIES SHALL BE COORDINATED BY THE CONTRACTOR.

3. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE PROTECTION OF ALL UNDERGROUND OR SURFACE UTILITIES EVEN THROUGH THEY MAY NOT BE SHOWN ON THE PLANS. ANY UTILITY THAT IS DAMAGED DURING CONSTRUCTION SHALL BE REPAIRED OR REPLACED AT THE CONTRACTOR'S EXPENSE TO THE SATISFACTION OF THE ENGINEER, IN ACCORDANCE WITH LR105.

4. THE CONTRACTOR SHALL NOTIFY THE COUNTY AT LEAST 48 HOURS IN ADVANCE OF BEGINNING WORK TO OBTAIN COUNTY UTILITY LOCATIONS AND SHALL COORDINATE ALL CONSTRUCTION OPERATIONS WITH THE ENGINEER. OSHA-CRANES AND DERRICKS IN CONSTRUCTION (29 CFR 1926). THE CONTRACTOR SHALL COMPLY WITH PROVISIONS OF 29 CFR 1926 WHEN WORKING NEAR POWER LINES. ALL COSTS OF COMPLYING WITH 29 CFR 1926 SHALL BE CONSIDERED INCLUDED IN THE COST OF THE CONTRACT.

5. MATERIALS RESULTING FROM THE REMOVAL OF PAVEMENT, DRIVEWAYS, CURB AND CUTTER, HOT-MIX ASPHALT SURFACE, 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 COUNTY WILL HAVE THE MATERIAL REMOVED AND THE CONTRACTOR WILL BE BILLED (CHARGED) ACCORDINGLY.

6. IT WILL BE THE CONTRACTOR'S RESPONSIBILITY TO NOTIFY RESIDENTS AND THE COUNTY WHEN ACCESS TO THEIR DRIVEWAY WILL BE TEMPORARILY CLOSED DUE TO RECONSTRUCTION AND/OR DRIVEWAY REPLACEMENT. THE CONTRACTOR SHALL DISTRIBUTE NOTICES PROVIDED BY THE COUNTY TO RESIDENTS.

7. PROCUREMENT OF ALL NECESSARY PERMITS AND PAYMENTS THEREOF, SHALL BE THE CONTRACTOR'S RESPONSIBILITY, IN ACCORDANCE WITH ARTICLE 107.04.

8. THE CONTRACTOR SHALL PROTECT AND CAREFULLY PRESERVE ALL SECTION OR SUBSECTION MONUMENTS OR PROPERTY OR REFERENCE MARKERS UNTIL THE COUNTY, HIS AGENT OR AN AUTHORIZED SURVEYOR HAS WITNESSED OR OTHERWISE REFERENCE THEIR LOCATION.

9. ANY MAILBOXES THAT ARE IN CONFLICT WITH THE PROPOSED CONSTRUCTION SHALL BE REMOVED AND REPLACED IN ACCORDANCE WITH THE MOST CURRENT VERSIONS OF IDOT HIGHWAY STANDARDS AND U.S.P.S. STANDARDS AND SHALL BE INCLUDED IN THE COST OF EARTH EXCAVATION. MAIL SERVICE SHALL BE MAINTAINED AT ALL TIMES.

10. STORM STRUCTURE OFFSET LOCATIONS ARE TO THE EDGE OF PAVEMENT IF THE STRUCTURE IS IN THE CURB LINE OR TO THE CENTER OF STRUCTURE IF THE STRUCTURE IS NOT IN THE CURB LINE.

11. CHANNEL EXCAVATION OPERATIONS SHALL BE DONE WHEN WATER LEVEL IS AT OR BELOW NORMAL WATER SURFACE ELEVATION OR AS APPROVED BY THE ENGINEER.

12. FRAME ELEVATIONS GIVEN ON THE PLANS ARE ONLY TO ASSIST THE CONTRACTOR IN DETERMINING THE APPROXIMATE OVERALL HEIGHT OF THE STRUCTURE. FRAMES ON ALL NEW STRUCTURES SHALL BE ADJUSTED TO THE FINAL ELEVATION OF THE AREA IN WHICH THEY ARE LOCATED AS PART OF COST OF THE STRUCTURE.

13. STORM SEWER SHALL BE BACKFILLED IN ACCORDANCE WITH THE STANDARD SPECIFICATIONS FOR THE ROAD AND BRIDGE CONSTRUCTION ARTICLE 550.07, METHOD I ONLY.

14. THE CONTRACTOR SHALL MAINTAIN POSITIVE DRAINAGE TO ALL EXISTING AND PROPOSED DRAINAGE STRUCTURES AT ALL TIMES DURING CONSTRUCTION. METHODS USED BY THE CONTRACTOR SHALL BE SUBJECT TO THE APPROVAL OF THE ENGINEER. THIS WORK IS INCLUDED IN THE COST OF THE CONTRACT.

15. THE PRIME COAT APPLICATION RATE SHALL BE 0.1 GAL/SY. THE AGGREGATE PRIME COAT APPLICATION RATE SHALL BE 4 LB/SY. THE AGGREGATE CONVERSION RATE USED IN THE PLANS SHALL BE 2.05 TONS/CY.

16. ALL SAW CUTTING SHALL BE INCLUDED IN THE COST OF THE ITEM BEING REMOVED.

17. 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 AT NO ADDITIONAL CHARGE.

18. THE CONTRACTOR SHALL PROVIDE AND INSTALL TWO (2) WEIGHTED SANDBAGS ON EACH TYPE I OR TYPE II BARRICADE USED. ONE (1) WEIGHTED SANDBAG SHALL BE PLACED ACROSS EACH BOTTOM RAIL.

19. PAVEMENT MARKINGS ON CONCRETE SHALL BE POLYUREA, ALL OTHER PAVEMENTS MARKINGS SHALL BE THERMOPLASTIC.

20. FOR STEEL BAR CERTIFICATION, PLEASE CONTACT IDOT BUREAU OF MATERIALS AT 847-705-4363.

21. CHANGEABLE MESSAGE SIGNS SHALL BE PLACED IN ADVANCE OF THE TEMPORARY DETOUR ROUTE AT LEAST ONE WEEK PRIOR TO THE CLOSURE OF HILL ROAD.

22. THE CONTRACTOR SHALL CONTACT THE MCHENRY COUNTY SOIL AND WATER CONSERVATION DISTRICT (MCSWCD) AT LEAST ONE WEEK PRIOR TO THE PRE-CONSTRUCTION CONFERENCE; AND ONE WEEK PRIOR TO THE COMMENCEMENT OF LAND DISTURBING ACTIVITIES AND ONE WEEK PRIOR TO THE FINAL INSPECTION. PRIOR TO COMMENCING LAND DISTURBING ACTIVITIES IN AREAS OTHER THAN INDICATED ON THESE PLANS (INCLUDING BUT NOT LIMITED TO: ADDITIONAL PHASES OF DEVELOPMENT AND OFF-SITE BORROW OR WASTE AREAS) A SUPPLEMENTARY EROSION CONTROL PLAN SHALL BE SUBMITTED TO THE ENGINEER FOR REVIEW BY THE MCSWCD.

23. THE CONTRACTOR IS RESPONSIBLE FOR INSTALLATION OF ANY ADDITIONAL EROSION CONTROL MEASURES NECESSARY TO PREVENT EROSION AND SEDIMENTATION AS DETERMINED BY THE MCSWCD. THIS WORK SHALL BE PAID FOR IN ACCORDANCE WITH ARTICLE 280.08.

24. EXISTING NAME PLATE SHALL BE SALVAGED AND GIVEN TO MCDOT CONSTRUCTION MANAGER PRIOR TO DEMOLITION.

25. THE SURVEY DATUM USED FOR THIS PROJECT IS NAVD88.

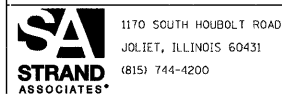
26. ALL POSTS, RAILROAD TIES AND DECORATIVE TIMBER/FENCE IN CONFLICT WITH THE PROPOSED IMPROVEMENTS SHALL BE REMOVED AND RELOCATED AS DETERMINED BY THE ENGINEER AND SHALL BE INCLUDED IN THE COST OF EARTH EXCAVATION. EVERY EFFORT SHALL BE MADE BY THE CONTRACTOR WHEN REMOVING THESE ITEMS TO PRESERVE THEM FROM HARM. ITEMS NOT RELOCATED SHALL BE PROPERLY DISPOSED OF BY THE CONTRACTOR.

27. DRAIN TILE SYSTEMS DISTURBED DURING DEVELOPMENT MUST BE RECONNECTED BY THOSE RESPONSIBLE FOR THEIR DISTURBANCE UNLESS THE APPROVED ENGINEERING PLANS INDICATE HOW THE DRAIN TILE SYSTEM IS TO BE CONNECTED TO THE PROPOSED STORM WATER MANAGEMENT SYSTEM. ALL ABANDONED DRAIN TILES SHALL BE REMOVED IN THEIR ENTIRETY.

28. THE CONTRACTOR SHALL OBTAIN A CONSTRUCTION PERMIT FROM THE ILLINOIS DEPARTMENT OF NATURAL RESOURCES, OFFICE OF WATER RESOURCES FOR ANY TEMPORARY CONSTRUCTION ACTIVITY PLACED IN THE WATER EXCEPT COFFERDAMS. THIS SHALL INCLUDE THE PLACEMENT OF MATERIALS FOR RUN-AROUNDS, CAUSEWAYS, ETC. ANY PERMIT APPLICATION BY THE CONTRACTOR SHALL REFER TO THE IDNR 3704 FLOODWAY CONSTRUCTION PERMIT NUMBER ALLOWING PERMANENT CONSTRUCTION AS SHOWN IN THE CONTRACT PLANS.

29. FOR WORK OUTSIDE THE LIMITS OF BRIDGE APPROACH PAVEMENT, ALL REFERENCES IN THE HIGHWAY STANDARDS AND STANDARD SPECIFICATIONS FOR REINFORCEMENT, DOWEL BARS AND TIE BARS IN PAVEMENT, SHOULDERS, CURB, GUTTER, COMBINATION CURB AND GUTTER AND MEDIAN, AND CHAIR SUPPORTS FOR CRC PAVEMENT, SHALL BE EPOXY COATED, UNLESS NOTED ON THE PLAN.

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1170 SOUTH HOUBOLT ROAD
JOLIET, ILLINOIS 60431
(815) 744-4200

USER NAME = brianf
DESIGNED TJS
DRAWN B/JF
CHECKED AJS
DATE -

REVISED -
REVISED -
REVISED -
REVISED -

**MCHENRY COUNTY DIVISION OF TRANSPORTATION
HILL ROAD BRIDGE OVER
NORTH BRANCH NIPPERSINK CREEK**

GENERAL NOTES
SCALE: AS SHOWN SHEET NO. OF SHEETS STA. TO STA.

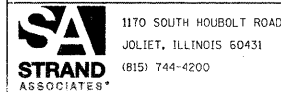
TR	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
21	08-00356-00-BR	MCHENRY	67	3
CONTRACT NO. 63666				
FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT				

CODE NO.	ITEM	UNIT	TOTAL QUANTITY	CONSTRUCTION CODE		
				HBP/TBP FUNDS		
				80% FED 20% LOCAL	80% FED 20% LOCAL	80% FED 20% LOCAL
				ROADWAY	BRIDGE	TRAINEES
				0004	0011	0042
				URBAN	URBAN	URBAN
20100110	TREE REMOVAL (6 TO 15 UNITS DIAMETER)	UNIT	602	602		
20100210	TREE REMOVAL (OVER 15 UNITS DIAMETER)	UNIT	589	589		
20101000	TEMPORARY FENCE	FOOT	80	80		
20101100	TREE TRUNK PROTECTION	EACH	10	10		
20101200	TREE ROOT PRUNING	EACH	23	23		
20101300	TREE PRUNING (1 TO 10 INCH DIAMETER)	EACH	13	13		
20101350	TREE PRUNING (OVER 10 INCH DIAMETER)	EACH	10	10		
20200100	EARTH EXCAVATION	CU YD	600	600		
20201200	REMOVAL AND DISPOSAL OF UNSUITABLE MATERIAL	CU YD	1,400	1,400		
20400800	FURNISHED EXCAVATION	CU YD	6,140	6,140		
20800150	TRENCH BACKFILL	CU YD	80	80		
21101625	TOPSOIL FURNISH AND PLACE, 6"	SQ YD	4,215	4,215		
25000210	SEEDING, CLASS 2A	ACRE	.25	.25		
25000310	SEEDING, CLASS 4	ACRE	1.25	1.25		
25000400	NITROGEN FERTILIZER NUTRIENT	POUND	135	135		
25000500	PHOSPHORUS FERTILIZER NUTRIENT	POUND	135	135		
25000600	POTASSIUM FERTILIZER NUTRIENT	POUND	135	135		
25100635	HEAVY DUTY EROSION CONTROL BLANKET	SQ YD	7,260	7,260		
28000200	EARTH EXCAVATION FOR EROSION CONTROL	CU YD	10	10		
28000250	TEMPORARY EROSION CONTROL SEEDING	POUND	127	127		
28000400	PERIMETER EROSION BARRIER	FOOT	2,016	2,016		
28000500	INLET AND PIPE PROTECTION	EACH	2	2		
28000510	INLET FILTERS	EACH	2	2		
28001000	AGGREGATE (EROSION CONTROL)	TON	1	1		
28100107	STONE RIPRAP, CLASS A4	SQ YD	516	16	500	
28200200	FILTER FABRIC	SQ YD	516	16	500	



▲ SPECIALTY ITEMS

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USER NAME = dennis	DESIGNED VLF	REVISIONS
PLOT SCALE = 1:8000 ' / IN.	DRAWN VJF	REVISIONS
PLT DATE = 1/18/02	CHECKED AJS	REVISIONS

DESIGNED VLF	REVISIONS
DRAWN VJF	REVISIONS
CHECKED AJS	REVISIONS

MCHENRY COUNTY DIVISION OF TRANSPORTATION
HILL ROAD BRIDGE OVER
NORTH BRANCH NIPPERSINK CREEK

SUMMARY OF QUANTITIES

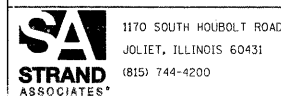
SCALE AS SHOWN	SHEET NO.	TOTAL SHEETS	STA.	TO STA.
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TR	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
21	08-00356-00-BR	MCHENRY	67	4
CONTRACT NO. 63666			FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT	

CODE NO.	ITEM	UNIT	TOTAL QUANTITY	CONSTRUCTION CODE		
				HBP/TBP FUNDS		
				80% FED 20% LOCAL	80% FED 20% LOCAL	80% FED 20% LOCAL
				ROADWAY	BRIDGE	TRAINEES
				0004	0011	0042
				URBAN	URBAN	URBAN
31101400	SUBBASE GRANULAR MATERIAL, TYPE B 6"	SQ YD	625	625		
40600100	BITUMINOUS MATERIALS (PRIME COAT)	GALLON	165	165		
40600300	AGGREGATE (PRIME COAT)	TON	3.22	3.22		
40600982	HOT-MIX ASPHALT SURFACE REMOVAL - BUTT JOINT	SQ YD	160	160		
40701801	HOT-MIX ASPHALT PAVEMENT (FULL-DEPTH), 6"	SQ YD	1,615	1,615		
42001430	BRIDGE APPROACH PAVEMENT CONNECTOR (FLEXIBLE)	SQ YD	535	535		
44000100	PAVEMENT REMOVAL	SQ YD	2,560	2,560		
48101500	AGGREGATE SHOULDERS, TYPE B 6"	SQ YD	392	392		
48203021	HOT-MIX ASPHALT SHOULDERS, 6"	SQ YD	505	505		
50100100	REMOVAL OF EXISTING STRUCTURES	EACH	1		1	
50105220	PIPE CULVERT REMOVAL	FOOT	94	94		
50200100	STRUCTURE EXCAVATION	CU YD	99		99	
50200300	COFFERDAM EXCAVATION	CU YD	43		43	
50201101	COFFERDAM (TYPE 1) (LOCATION - 1)	EACH	1		1	
50201102	COFFERDAM (TYPE 1) (LOCATION - 2)	EACH	1		1	
50300225	CONCRETE STRUCTURES	CU YD	72		72	
50300255	CONCRETE SUPERSTRUCTURE	CU YD	107		107	
50300260	BRIDGE DECK GROOVING	SQ YD	583		583	
50300280	CONCRETE ENCASEMENT	CU YD	21		21	
50300300	PROTECTIVE COAT	SQ YD	683		683	
50400505	PRECAST PRESTRESSED CONCRETE DECK BEAMS (27" DEPTH)	SQ FT	3,981		3,981	
50800205	REINFORCEMENT BARS, EPOXY COATED	POUND	42,260		42,260	
51200959	FURNISHING METAL SHELL PILES 14" X 0.312"	FOOT	196		196	
51201800	FURNISHING STEEL PILES HP14X73	FOOT	425		425	
51202305	DRIVING PILES	FOOT	621		621	
51203200	TEST PILE METAL SHELLS	EACH	1		1	

▲ SPECIALTY ITEMS

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1170 SOUTH HOUBOLT ROAD
JOLIET, ILLINOIS 60431
(815) 744-4200

USER NAME = dennisw
DESIGNED VLF
DRAWN B/JF
CHECKED AJS
PLOT DATE = 1/9/2013

REVISIONS
REVISIONS
REVISIONS
REVISIONS

MCHENRY COUNTY DIVISION OF TRANSPORTATION
HILL ROAD BRIDGE OVER
NORTH BRANCH NIPPERSINK CREEK

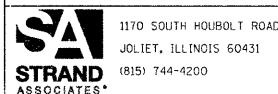
SUMMARY OF QUANTITIES
SCALE: AS SHOWN SHEET NO. OF SHEETS STA. TO STA.

TR	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
21	08-00356-00-BR	MCHENRY	67	5
FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT			CONTRACT NO. 63666	

CODE NO.	ITEM	UNIT	TOTAL QUANTITY	CONSTRUCTION CODE		
				HBP/TBP FUNDS		
				80% FED 20% LOCAL	80% FED 20% LOCAL	80% FED 20% LOCAL
				ROADWAY	BRIDGE	TRAINEES
				0004	0011	0042
				URBAN	URBAN	URBAN
51203800	TEST PILE STEEL HP14X73	EACH	3		3	
51204650	PILE SHOES	EACH	20		20	
51500100	NAME PLATES	EACH	1		1	
54213657	PRECAST REINFORCED CONCRETE FLARED END SECTIONS 12"	EACH	2	2		
54213663	PRECAST REINFORCED CONCRETE FLARED END SECTIONS 18"	EACH	2	2		
54214713	PRECAST REINFORCED CONCRETE FLARED END SECTIONS - ELLIPTICAL, EQUIVALENT ROUND-SIZE 18"	EACH	2	2		
542A1063	PIPE CULVERTS, CLASS A, TYPE 2 18"	FOOT	56	56		
542A5473	PIPE CULVERTS, CLASS A, TYPE 1 EQUIVALENT ROUND-SIZE 18"	FOOT	40	40		
550A0340	STORM SEWERS, CLASS A, TYPE 2 12"	FOOT	11	11		
58700300	CONCRETE SEALER	SQ FT	845		845	
59100100	GEOCOMPOSITE WALL DRAIN	SQ YD	54		54	
60208240	CATCH BASINS, TYPE C, TYPE 24 FRAME AND GRATE	EACH	2	2		
60605000	COMBINATION CONCRETE CURB AND GUTTER, TYPE B-6, 24	FOOT	20	20		
△	63000001	STEEL PLATE BEAM GUARDRAIL, TYPE A, 6 FOOT POSTS	FOOT	250	250	
△	63100045	TRAFFIC BARRIER TERMINAL, TYPE 2	EACH	2	2	
△	63100167	TRAFFIC BARRIER TERMINAL, TYPE 1 (SPECIAL) TANGENT	EACH	2	2	
	63200310	GUARDRAIL REMOVAL	FOOT	58	58	
	66600105	FURNISHING AND ERECTING RIGHT OF WAY MARKERS	EACH	11	11	
	67000400	ENGINEER'S FIELD OFFICE, TYPE A	CAL MO	5	5	
	67100100	MOBILIZATION	L SUM	1	1	
	70106800	CHANGEABLE MESSAGE SIGN	CAL MO	16	16	
△	78000200	THERMOPLASTIC PAVEMENT MARKING - LINE 4"	FOOT	3,460	3,460	
△	78008210	POLYUREA PAVEMENT MARKING TYPE I - LINE 4"	FOOT	685	685	
△	78200410	GUARDRAIL MARKERS, TYPE A	EACH	16	16	
△	78201000	TERMINAL MARKER - DIRECT APPLIED	EACH	4	4	
△	A2002912	TREE, CELTIS OCCIDENTALIS (COMMON HACKBERRY), 1-1/2" CALIPER, BALLED AND BURLAPPED	EACH	4	4	

△ SPECIALTY ITEMS

FILE NAME = S:\JOLI 6602-6895\6842\007\Micros\CADD Sheets\DI-63666-ah-500.dgn



1170 SOUTH HOBOLT ROAD
JOLIET, ILLINOIS 60431
(815) 744-4200

USER NAME = dennisw
DESIGNED VLF
DRAWN B/JF
CHECKED AJS
DATE

REVISED -
REVISED -
REVISED -
REVISED -

MCHENRY COUNTY DIVISION OF TRANSPORTATION
HILL ROAD BRIDGE OVER
NORTH BRANCH NIPPERSINK CREEK

SUMMARY OF QUANTITIES
SCALE: AS SHOWN SHEET NO. OF SHEETS STA. TO STA.

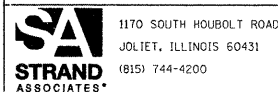
TR	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
21	08-00356-00-BR	MCHENRY	67	6
CONTRACT NO. 63666				

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

CODE NO.	ITEM	UNIT	TOTAL QUANTITY	CONSTRUCTION CODE		
				HBP/TBP FUNDS		
				80% FED 20% LOCAL	80% FED 20% LOCAL	80% FED 20% LOCAL
				ROADWAY	BRIDGE	TRAINEES
				0004	0011	0042
				URBAN	URBAN	URBAN
▲ A2006512	TREE, QUERCUS BICOLOR (SWAMP WHITE OAK), 1-1/2" CALIPER, BALLED AND BURLAPPED	EACH	8	8		
▲ A2007814	TREE, TILIA AMERICANA (AMERICAN LINDEN/ BASSWOOD), 1-3/4" CALIPER, BALLED AND BURLAPPED	EACH	2	2		
X2070304	POROUS GRANULAR EMBANKMENT, SPECIAL	CU YD	96		96	
X2800300	TEMPORARY DITCH CHECKS (SPECIAL)	EACH	13	13		
X4021000	TEMPORARY ACCESS (PRIVATE ENTRANCE)	EACH	1	1		
▲ X6310088	TRAFFIC BARRIER TERMINAL TYPE 6A (SPECIAL)	EACH	4	4		
▲ X7810300	RECESSED REFLECTIVE PAVMENT MARKER	EACH	10	10		
XX008438	TRAFFIC CONTROL AND PROTECTION FOR TEMPORARY DETOUR	EACH	1	1		
XX008458	CONCRETE WEARING SURFACE, (VARIABLE DEPTH)	CU YD	88		88	
Z0001050	AGGREGATE SUBGRADE 12"	SQ YD	1,615	1,615		
▲ Z0007124	STEEL RAILING (SPECIAL)	FOOT	282		282	
Z0013798	CONSTRUCTION LAYOUT	L SUM	1	1		
Z0022800	FENCE REMOVAL	FOOT	530	530		
Z0030850	TEMPORARY INFORMATION SIGNING	SQ FT	26	26		
Z0042002	POROUS GRANULAR EMBANKMENT, SUBGRADE	CU YD	50	50		
Z0046304	PIPE UNDERDRAINS FOR STRUCTURES 4"	FOOT	130		130	
Z0066400	STABILIZED DRIVEWAYS 6"	SQ YD	81	81		
Z0076600	TRAINEES	HOUR	500			500

▲ SPECIALTY ITEMS

FILE NAME = S:\JUL 6500--6895\6842\027\Micros\CADD Sheets\DJ-63666-ah-500.dgn



1170 SOUTH HOUBOLT ROAD
JOLIET, ILLINOIS 60431
(815) 744-4200

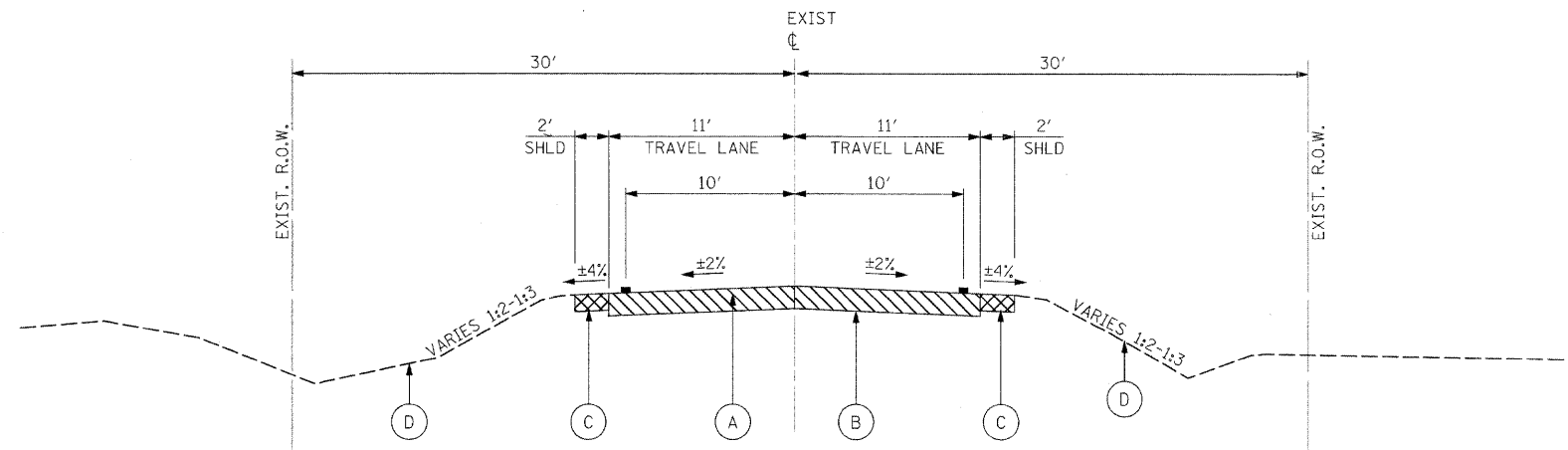
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DESIGNED VLF
DRAWN BJF
CHECKED AVS
PLOT DATE = 1/9/2012

REVISED -
REVISED -
REVISED -
REVISED -

**MCHENRY COUNTY DIVISION OF TRANSPORTATION
HILL ROAD BRIDGE OVER
NORTH BRANCH NIPPERSINK CREEK**

SUMMARY OF QUANTITIES
SCALE: AS SHOWN SHEET NO. OF SHEETS STA. TO STA.

TR	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
21	08-00356-00-BR	MCHENRY	67	7
CONTRACT NO. 63666			FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT	



EXISTING TYPICAL SECTION

STA. 103+00 TO STA. 109+59
STA. 110+28 TO STA. 113+35

- EXISTING LEGEND**
- (A) HOT MIX ASPHALT SURFACE AND BINDER COURSE, ±10"
 - (B) AGGREGATE SUBBASE
 - (C) AGGREGATE SHOULDER
 - (D) EXISTING GROUND
 - ▨ PAVEMENT REMOVAL
 - ▩ SHOULDER REMOVAL (INCLUDED IN COST OF EARTH EXCAVATION)

HOT-MIX ASPHALT MIXTURE REQUIREMENTS

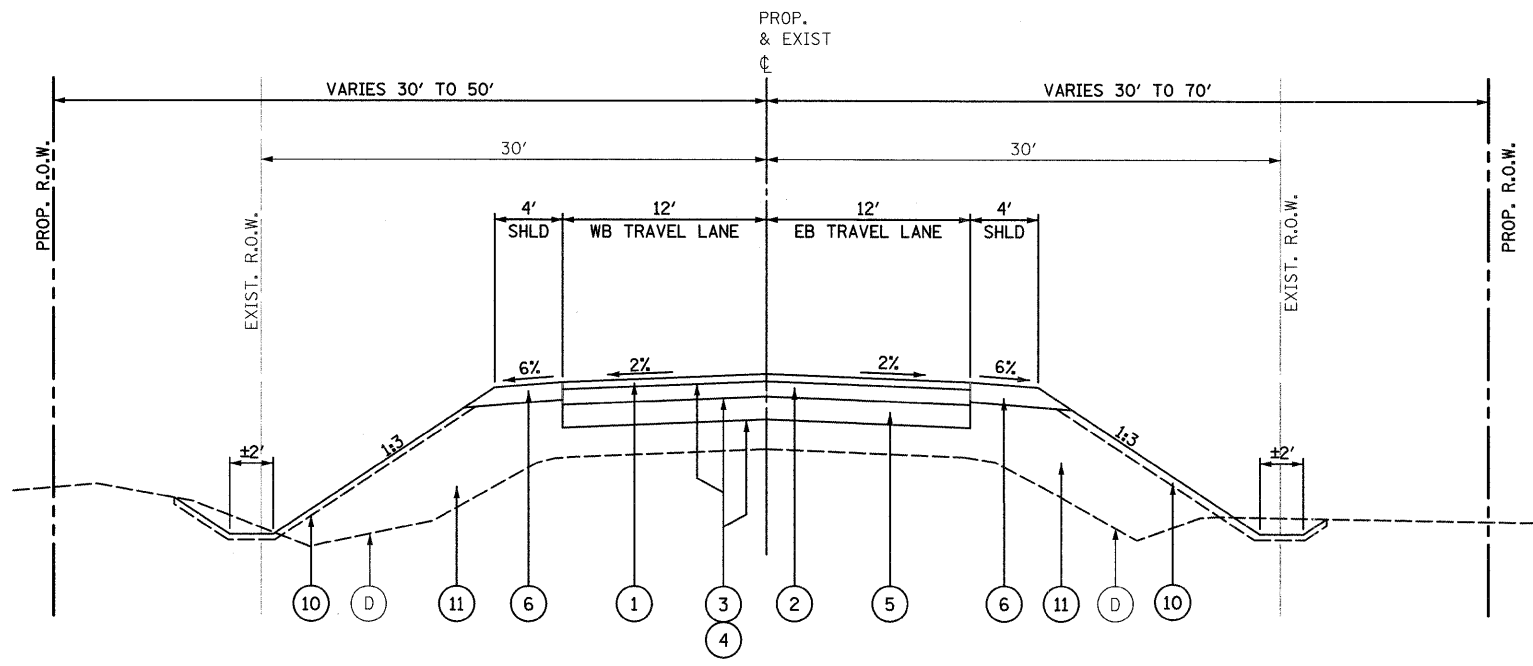
MIXTURE TYPE	AIR VOIDS @ Ndes
HOT-MIX ASPHALT PAVEMENT (FULL DEPTH), 6"	
HOT-MIX ASPHALT SURFACE COURSE, "D", N50 (IL 9.5mm); 2"	4% @ 50 GYR
HOT-MIX ASPHALT BINDER COURSE, IL-19.0, N50; 4"	4% @ 50 GYR
DRIVEWAYS	
HOT-MIX ASPHALT SURFACE COURSE, MIX "D", N50 (IL 9.5mm); 2"	4% @ 50 GYR
HOT-MIX ASPHALT BASE COURSE (HMA BINDER IL-19 mm) N50; PE-4", CE-6" (IN 2 LIFTS)	4% @ 50 GYR
SHOULDER RECONSTRUCTION	
HOT-MIX ASPHALT SHOULDER, 6" (HMA BINDER IL-19mm) (IN 2 LIFTS)	4% @ 50 GYR
BRIDGE APPROACH PAVEMENT CONNECTOR (FLEXIBLE)	
HOT-MIX ASPHALT SURFACE COURSE, MIX "D", N50 (IL 9.5mm); 2"	4% @ 50 GYR
HOT-MIX ASPHALT BINDER COURSE, IL-19.0, N50; 4"	4% @ 50 GYR
1. THE UNIT WEIGHT USED TO CALCULATE ALL HOT-MIX ASPHALT SURFACE MIXTURE QUANTITIES IS 112 LBS/SQ YD/IN.	
2. THE "AC TYPE" FOR POLYMERIZED HOT-MIX ASPHALT MIXES SHALL BE "SBS/SBR PG76-22" AND FOR NON-POLYMERIZED HOT-MIX ASPHALT THE "AC TYPE" SHALL BE "PG 64-22" UNLESS MODIFIED BY DISTRICT ONE SPECIAL PROVISIONS." FOR "PERCENT OF RAP" SEE DISTRICT ONE SPECIAL PROVISIONS.	

STRUCTURAL DESIGN DATA

STREET	STRUCTURAL DESIGN TRAFFIC			STREET CLASS	TRAFFIC FACTOR	SSR	TEMP	STRAIN	AC	EAC	REQ'D BIT THICKNESS	MECHANISTIC PAVEMENT DESIGN
	PV	SU	MU									
HILL ROAD	3477	54	54	II	0.274	POOR	76°	214	PG 64-28	650	6.0 IN	2" HOT-MIX ASPHALT SURFACE COURSE, MIX "D", N50 4" HOT-MIX ASPHALT BINDER COURSE, IL-19.0, N50 12" AGGREGATE SUBGRADE

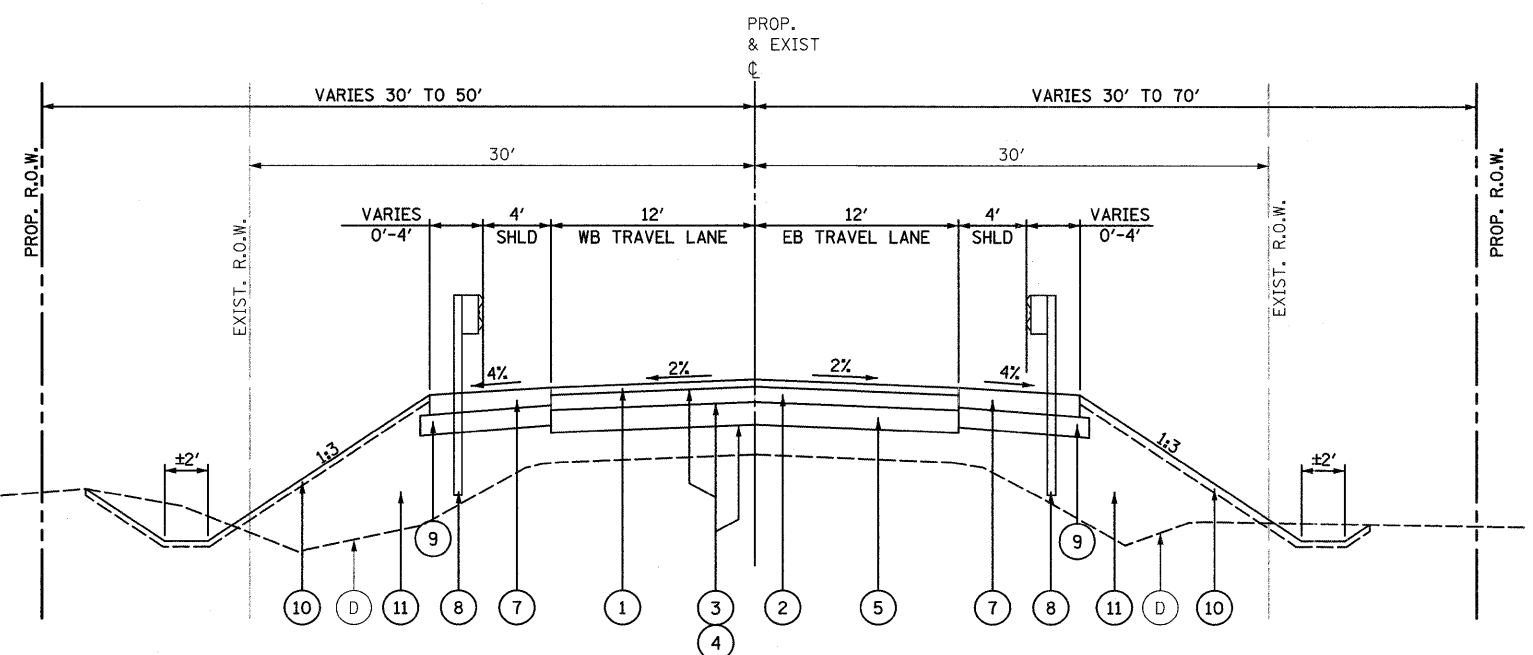
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1170 SOUTH HOUBOLT ROAD JOLIET, ILLINOIS 60431 (815) 744-4200	USER NAME = brianf	DESIGNED VLF	REVISED -	MCHENRY COUNTY DIVISION OF TRANSPORTATION HILL ROAD BRIDGE OVER NORTH BRANCH NIPPERSINK CREEK	TYPICAL SECTIONS SCALE: AS SHOWN SHEET NO. OF SHEETS STA. TO STA.				TR	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	PLOT SCALE = 20.0000' / IN.	DRAWN SMH	REVISED -						21	08-00356-00-BR	MCHENRY	67	8
PLOT DATE = 1/5/2012	CHECKED AJS	REVISED -						CONTRACT NO. 63666					
	DATE -	REVISED -						FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT					



PROPOSED TYPICAL SECTION

STA. 103+00.00 RT TO STA. 107+01.40 RT
 STA. 111+64.60 RT TO STA. 113+35.00 RT
 STA. 103+00.00 LT TO STA. 108+07.90 LT
 STA. 112+83.80 LT TO STA. 113+35.00 LT



PROPOSED TYPICAL SECTION

STA. 107+01.40 RT TO STA. 109+03.7 RT
 STA. 110+74.30 RT TO STA. 111+64.60 RT
 STA. 108+07.90 LT TO STA. 109+03.70 LT
 STA. 110+74.30 LT TO STA. 112+83.80 LT

EXISTING LEGEND

- (A) HOT MIX ASPHALT SURFACE AND BINDER COURSE, ±10"
- (B) AGGREGATE SUBBASE
- (C) AGGREGATE SHOULDER
- (D) EXISTING GROUND
- ▨ PAVEMENT REMOVAL
- ▩ SHOULDER REMOVAL (INCLUDED IN COST OF EARTH EXCAVATION)

PROPOSED LEGEND

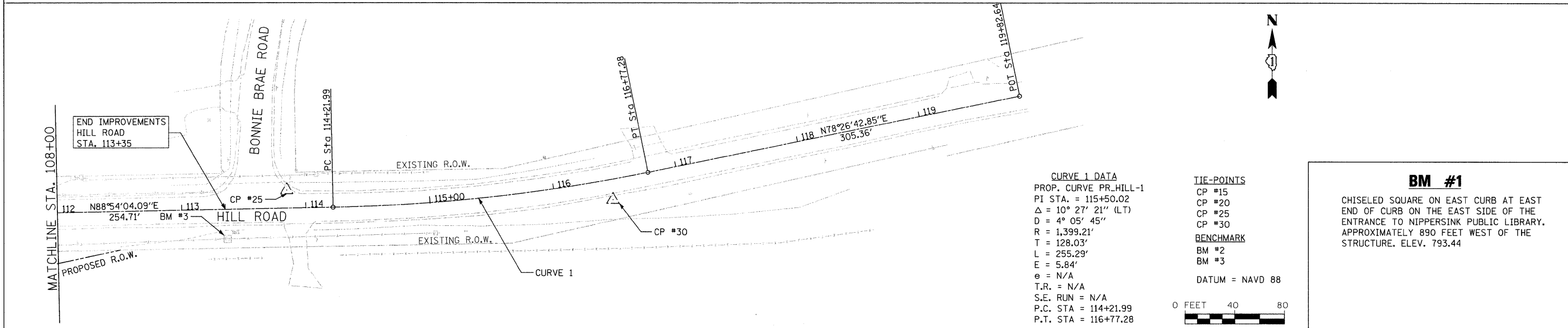
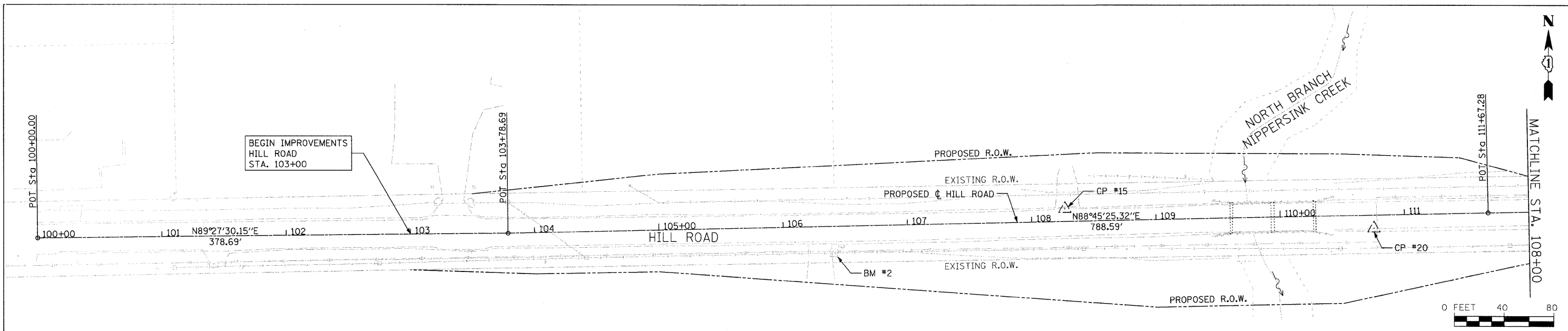
- (1) HOT-MIX ASPHALT SURFACE COURSE, MIX "D", N50, 2"
- (2) HOT-MIX ASPHALT BINDER COURSE, IL-19.0, N50, 4"
- (3) BITUMINOUS MATERIALS (PRIME COAT)
- (4) AGGREGATE (PRIME COAT)
- (5) AGGREGATE SUBGRADE, 12"
- (6) AGGREGATE SHOULDERS, TYPE B, 6"
- (7) HOT-MIX ASPHALT SHOULDERS, 6"
- (8) STEEL PLATE BEAM GUARDRAIL, TYPE A, 6 FOOT POSTS
- (9) SUBBASE GRANULAR MATERIAL, TYPE B 6"
- (10) TOPSOIL FURNISH AND PLACE, 6"
- (11) EMBANKMENT

NOTES:

1. (1) + (2) = HOT-MIX ASPHALT (FULL DEPTH), 6"
2. BRIDGE OMISSION: STA. 109+03.70 TO STA. 110+74.30 RT/LT
3. PAVEMENT STRUCTURE SHALL BE PAID FOR AS BRIDGE APPROACH PAVEMENT CONNECTOR (FLEXIBLE) FROM STA. 108+03.70 TO STA. 109+03.70 AND FROM STA. 110+74.30 TO STA. 111+74.30

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1170 SOUTH HOUBOLT ROAD JOLIET, ILLINOIS 60431 (815) 744-4200	USER NAME = brianf	DESIGNED VLF	REVISED -	MCHENRY COUNTY DIVISION OF TRANSPORTATION HILL ROAD BRIDGE OVER NORTH BRANCH NIPPERSINK CREEK	TYPICAL SECTIONS		TR	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	PLOT SCALE = 20.0000' / IN.	DRAWN SMH	REVISED -				21	08-00356-00-BR	MCHENRY	67	9
PLOT DATE = 1/3/2012	CHECKED AJS	REVISED -	REVISED -	SCALE: AS SHOWN	SHEET NO. OF SHEETS	STA. TO STA.	FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT				
	DATE -	REVISED -					CONTRACT NO. 63666				



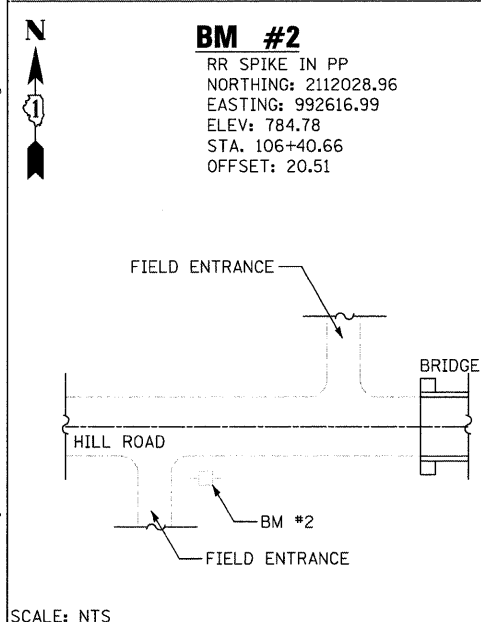
CURVE 1 DATA
 PROP. CURVE PR_HILL-1
 PI STA. = 115+50.02
 $\Delta = 10^\circ 27' 21''$ (LT)
 $D = 4^\circ 05' 45''$
 $R = 1,399.21'$
 $T = 128.03'$
 $L = 255.29'$
 $E = 5.84'$
 $e = N/A$
 $T.R. = N/A$
 $S.E. RUN = N/A$
 $P.C. STA = 114+21.99$
 $P.T. STA = 116+77.28$

TIE-POINTS
 CP #15
 CP #20
 CP #25
 CP #30

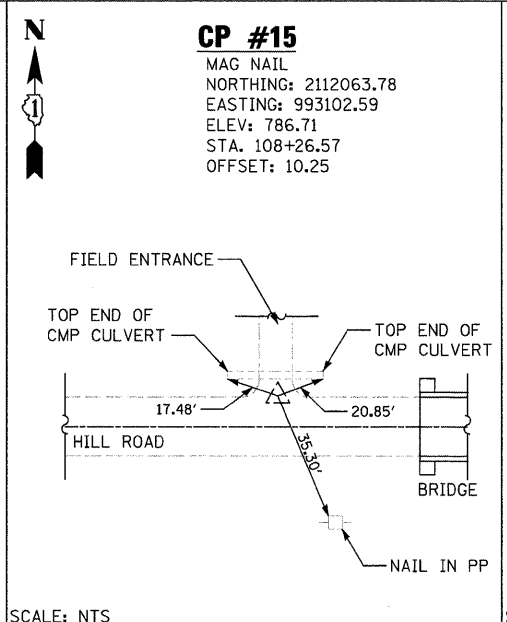
BENCHMARK
 BM #2
 BM #3

DATUM = NAVD 88

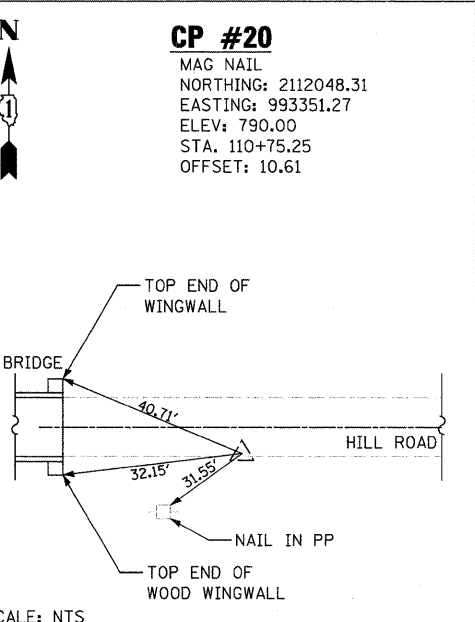
BM #1
 CHISELED SQUARE ON EAST CURB AT EAST END OF CURB ON THE EAST SIDE OF THE ENTRANCE TO NIPPERSINK PUBLIC LIBRARY. APPROXIMATELY 890 FEET WEST OF THE STRUCTURE. ELEV. 793.44



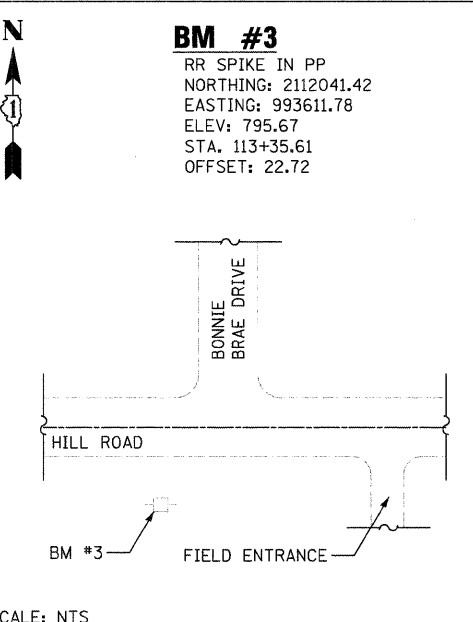
BM #2
 RR SPIKE IN PP
 NORTHING: 2112028.96
 EASTING: 992616.99
 ELEV: 784.78
 STA. 106+40.66
 OFFSET: 20.51



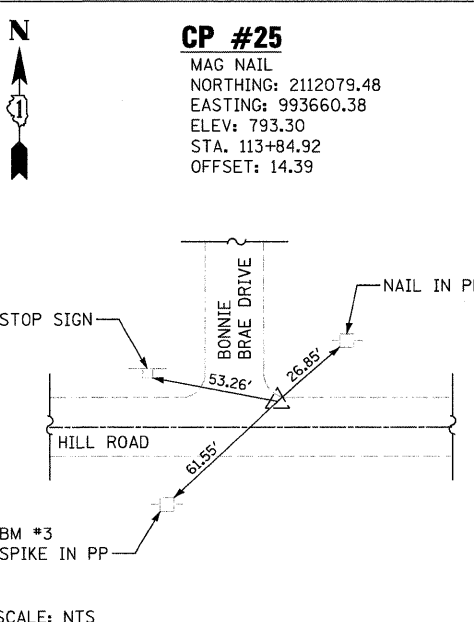
CP #15
 MAG NAIL
 NORTHING: 2112063.78
 EASTING: 993102.59
 ELEV: 786.71
 STA. 108+26.57
 OFFSET: 10.25



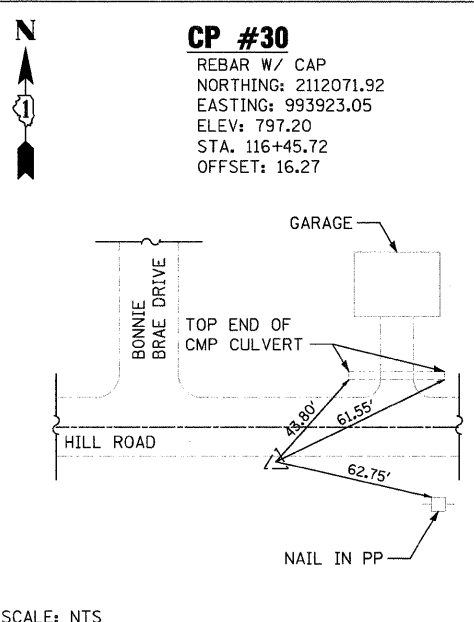
CP #20
 MAG NAIL
 NORTHING: 2112048.31
 EASTING: 993351.27
 ELEV: 790.00
 STA. 110+75.25
 OFFSET: 10.61



BM #3
 RR SPIKE IN PP
 NORTHING: 2112041.42
 EASTING: 993611.78
 ELEV: 795.67
 STA. 113+35.61
 OFFSET: 22.72



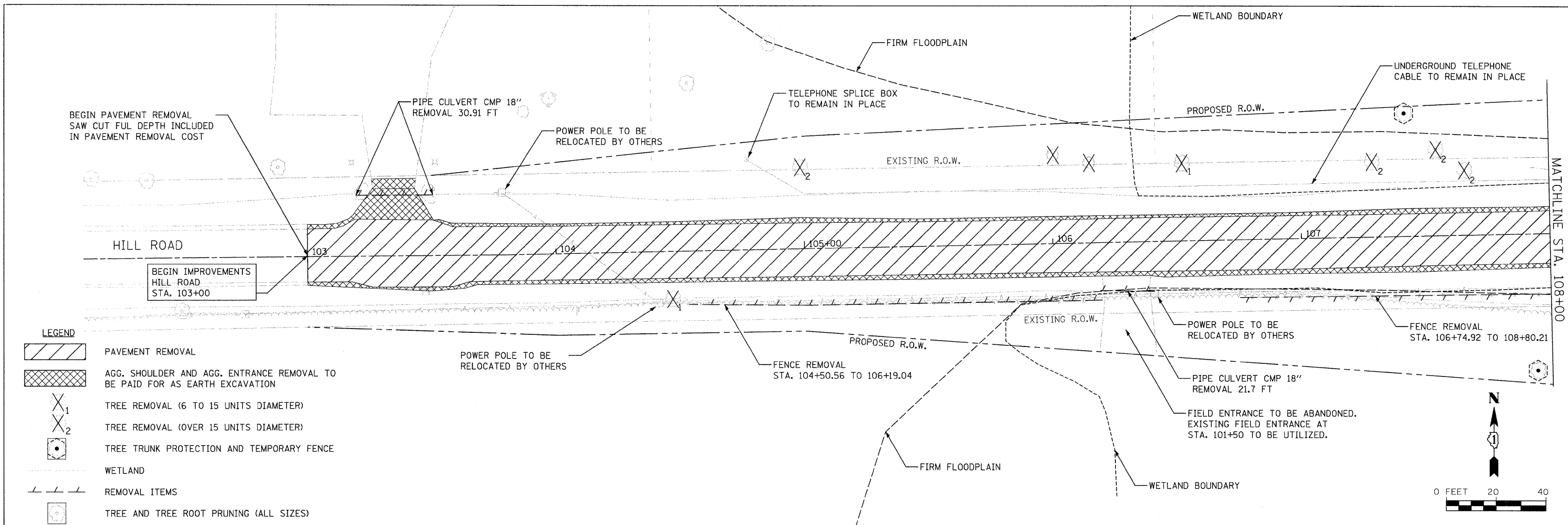
CP #25
 MAG NAIL
 NORTHING: 2112079.48
 EASTING: 993660.38
 ELEV: 793.30
 STA. 113+84.92
 OFFSET: 14.39



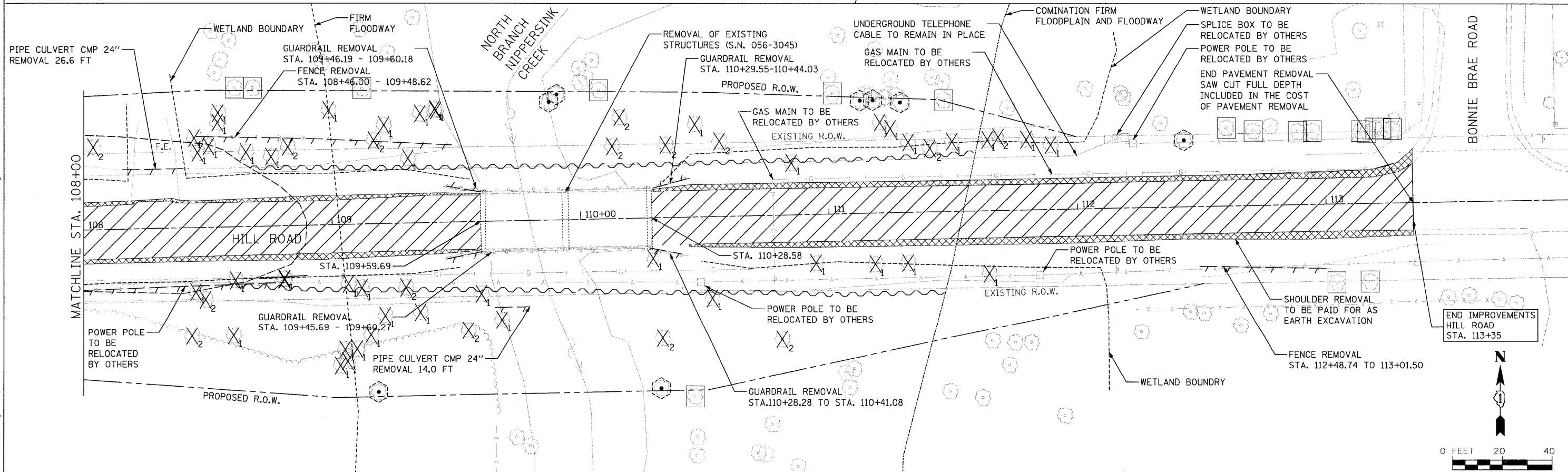
CP #30
 REBAR W/ CAP
 NORTHING: 2112071.92
 EASTING: 993923.05
 ELEV: 797.20
 STA. 116+45.72
 OFFSET: 16.27

	1170 SOUTH HOUBOLT ROAD JOLIET, ILLINOIS 60431 (815) 744-4200	USER NAME = brianf	DESIGNED VLF	REVISED -	MCHENRY COUNTY DIVISION OF TRANSPORTATION HILL ROAD BRIDGE OVER NORTH BRANCH NIPPERSINK CREEK	ALIGNMENT, TIES AND BENCHMARKS			TR 21	SECTION 08-00356-00-BR	COUNTY MCHENRY	TOTAL SHEETS 67	SHEET NO. 11
	PLOT SCALE = 40,0000' / IN.	CHECKED AJS	REVISED -	SCALE: AS SHOWN		SHEET NO.	OF	SHEETS	STA.	TO STA.	CONTRACT NO. 63666		
	PLOT DATE = 1/3/2012	DATE -	REVISED -				FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT						

FILE NAME = s:\j\16800-6899\6842\07\micro\cadd sheets\11-63666-hill-RTB.dgn



- LEGEND**
- PAVEMENT REMOVAL
 - AGG. SHOULDER AND AGG. ENTRANCE REMOVAL TO BE PAID FOR AS EARTH EXCAVATION
 - TREE REMOVAL (6 TO 15 UNITS DIAMETER)
 - TREE REMOVAL (OVER 15 UNITS DIAMETER)
 - TREE TRUNK PROTECTION AND TEMPORARY FENCE
 - WETLAND
 - REMOVAL ITEMS
 - TREE AND TREE ROOT PRUNING (ALL SIZES)

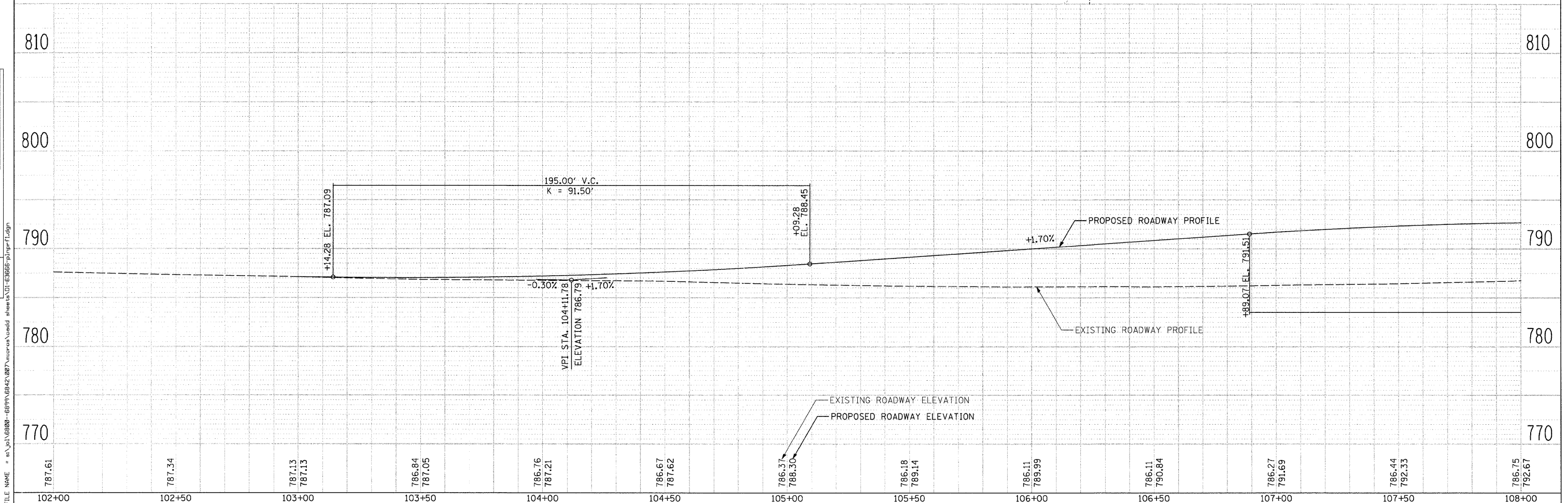
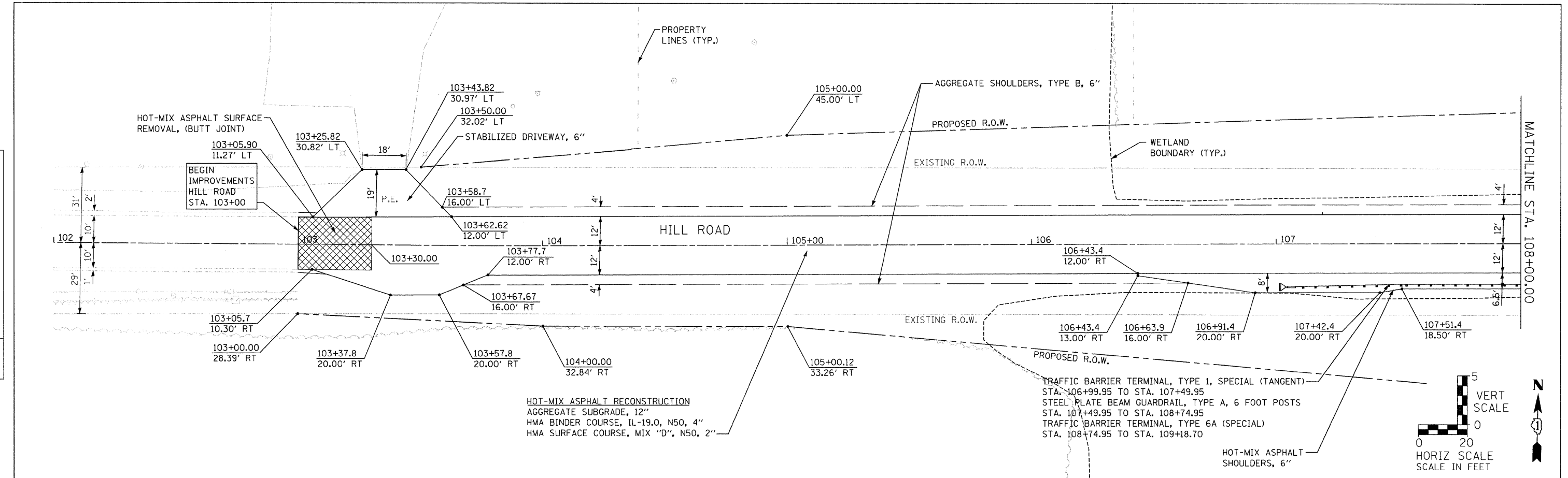


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1170 SOUTH HOUBOLT ROAD JOLIET, ILLINOIS 60431 (815) 744-4200	USER NAME = brianf	DESIGNED VLF	REVISED -	MCHENRY COUNTY DIVISION OF TRANSPORTATION HILL ROAD BRIDGE OVER NORTH BRANCH NIPPERSINK CREEK	REMOVAL PLAN			TR	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	DRAWN SMH CHECKED AJS PLOT SCALE = 20,0000' / IN. PLOT DATE = 1/3/2012	DATE -	REVISED -					21	08-00356-00-BR	MCHENRY	67	12
				SCALE: AS SHOWN SHEET NO. OF SHEETS STA. TO STA.			CONTRACT NO. 63666 FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT					

DATE	
BY	
REVISION	
PLANNED	
ALIGNED	
CHECKED	
NO. _____	
NO. _____	
NO. _____	

DATE	
BY	
REVISION	
PROFILES	
PLANNED	
CHECKED	
NO. _____	
NO. _____	
NO. _____	



787.61	787.34	787.13 787.13	786.84 787.05	786.76 787.21	786.67 787.62	786.37 788.30	786.18 789.14	786.11 789.99	786.11 790.84	786.27 791.69	786.44 792.33	786.75 792.67
102+00	102+50	103+00	103+50	104+00	104+50	105+00	105+50	106+00	106+50	107+00	107+50	108+00

SA STRAND ASSOCIATES*
1170 SOUTH HOUBOLT ROAD
JOLIET, ILLINOIS 60431
(815) 744-4200

USER NAME = brianf
DESIGNED VLF
CHECKED AJS
DRAWN SMH
CHECKED VLF
PLOT SCALE = 20.0000" / IN.
PLOT DATE = 1/3/2012

DESIGNED VLF
CHECKED AJS
DRAWN SMH
CHECKED VLF
REVISED -
REVISED -
REVISED -
REVISED -

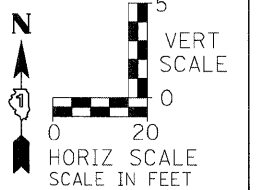
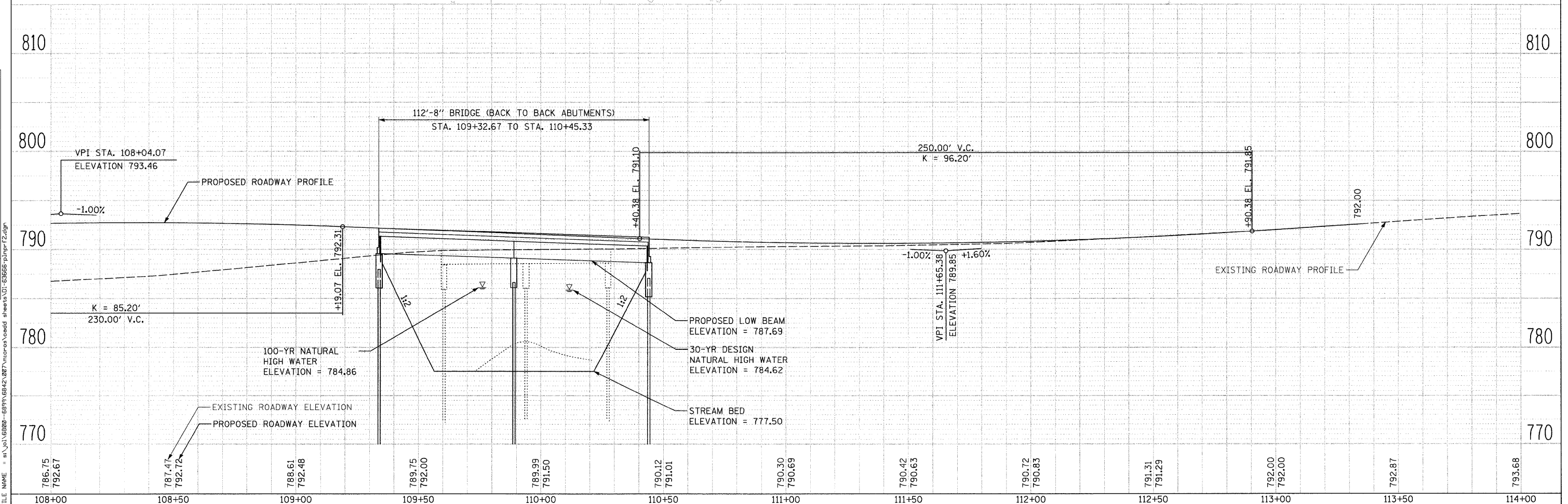
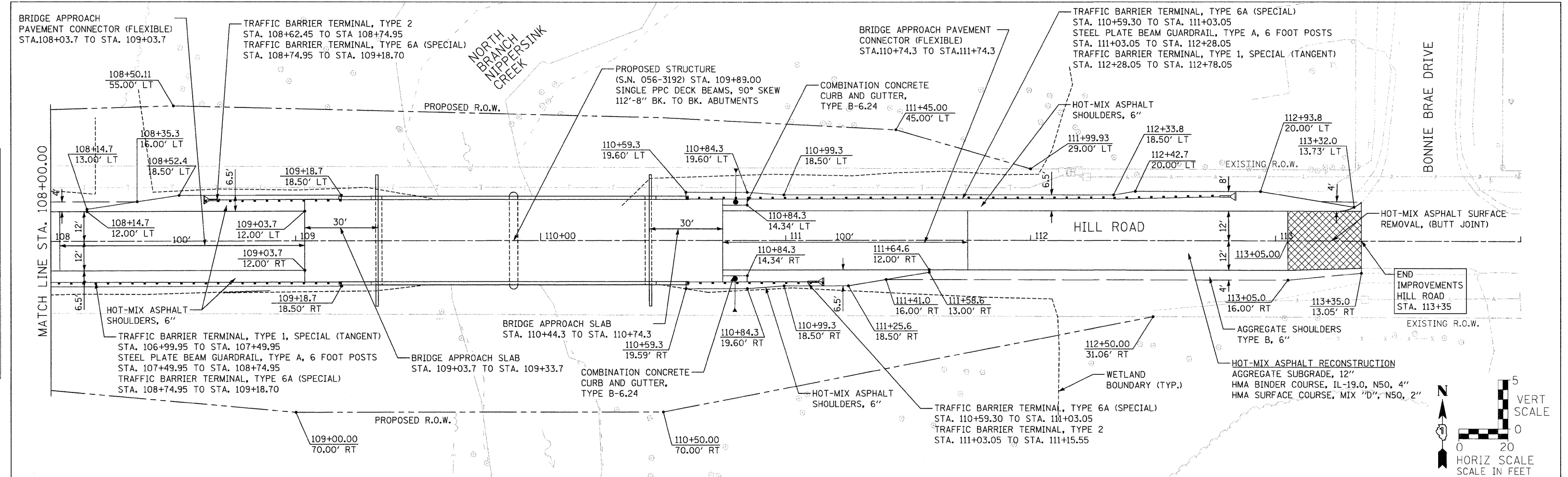
**MCHENRY COUNTY DIVISION OF TRANSPORTATION
HILL ROAD BRIDGE OVER
NORTH BRANCH NIPPERSINK CREEK**

PLAN AND PROFILE
SCALE: AS SHOWN SHEET NO. OF SHEETS STA. 102+00.00 TO STA. 108+00.00

TR	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
21	08-00356-00-BR	MCHENRY	67	13
CONTRACT NO. 63666				
FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT				

DATE	
BY	
REVISIONS	
NO.	
DESCRIPTION	
DATE	
BY	
NO.	
DESCRIPTION	
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BY	
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DESCRIPTION	

DATE	
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REVISIONS	
NO.	
DESCRIPTION	
DATE	
BY	
NO.	
DESCRIPTION	
DATE	
BY	
NO.	
DESCRIPTION	



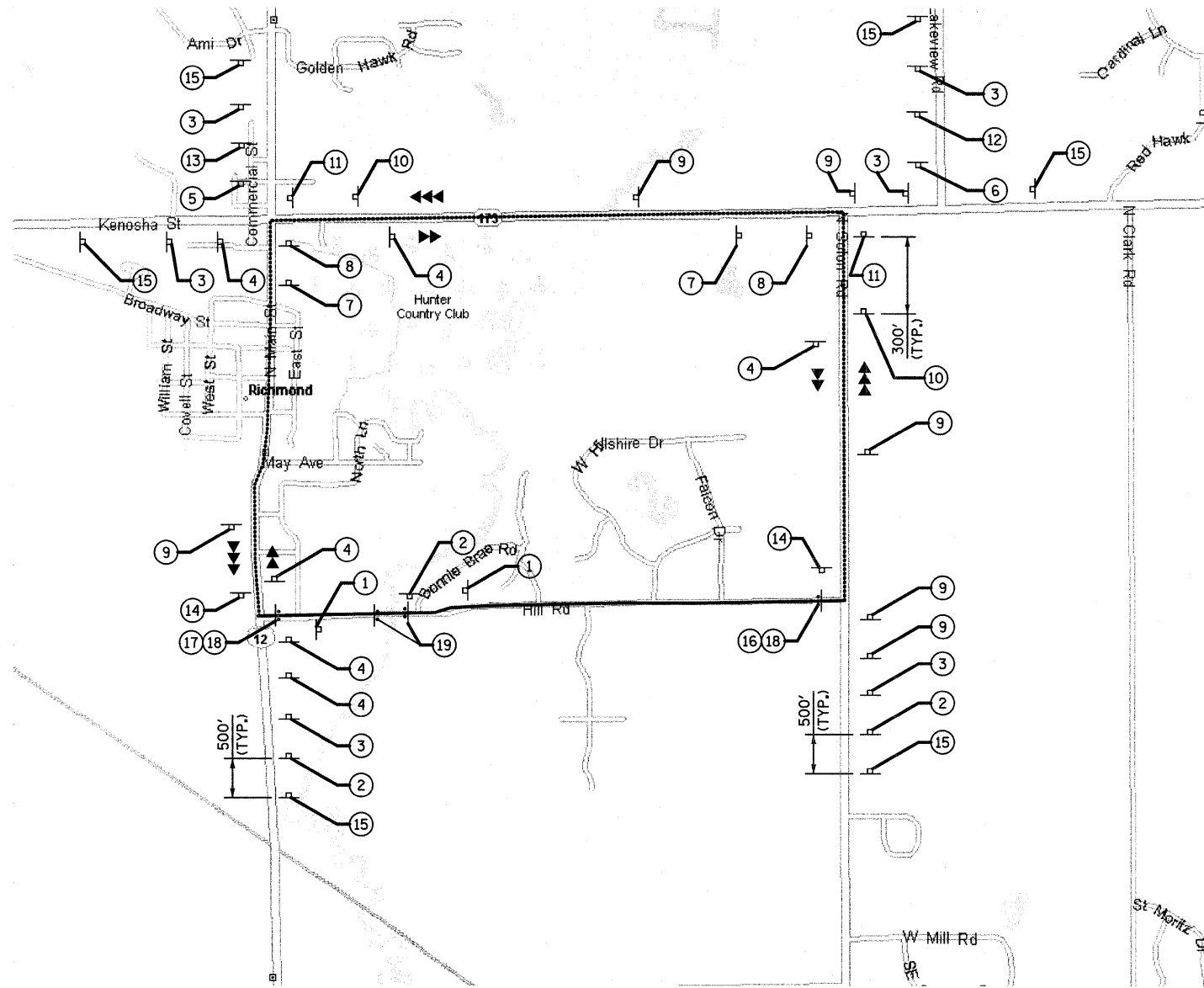
STRAND ASSOCIATES
1170 SOUTH HOUBOLT ROAD
JOLIET, ILLINOIS 60431
(815) 744-4200

USER NAME = brianf	DESIGNED VLF	REVISED -
	CHECKED AJS	REVISED -
PLOT SCALE = 20.0000' / IN.	DRAWN SMH	REVISED -
PLOT DATE = 1/3/2012	CHECKED VLF	REVISED -

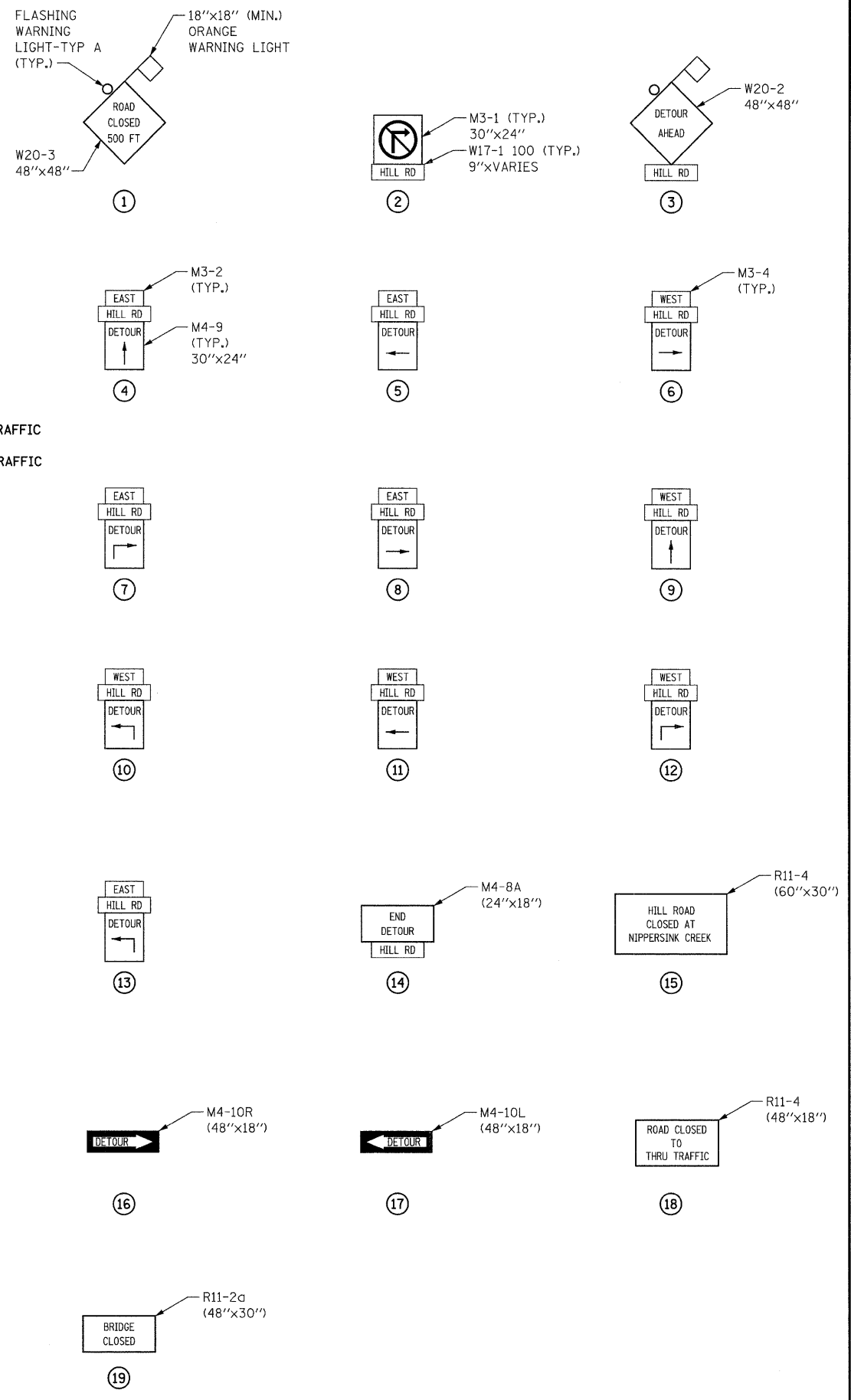
MCHENRY COUNTY DIVISION OF TRANSPORTATION
HILL ROAD BRIDGE OVER
NORTH BRANCH NIPPERSINK CREEK

PLAN AND PROFILE			
SCALE: AS SHOWN	SHEET NO.	OF SHEETS	STA. 108+00.00 TO STA. 114+00.00

TR	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
21	08-00356-00-BR	MCHENRY	67	14
CONTRACT NO. 63666				
FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT				



- LEGEND:**
- SIGN
 - TYPE III BARRICADES
 - ▶▶ EASTBOUND DETOURED TRAFFIC
 - ◀◀ WESTBOUND DETOURED TRAFFIC



MAINTENANCE OF TRAFFIC NOTES:

1. DURING CONSTRUCTION STAGING OPERATIONS, THE RICHMOND POLICE, FIRE, AND PUBLIC WORKS DEPARTMENT, RICHMOND TOWNSHIP, NIPPERSINK LIBRARY AND THE COUNTY SHERIFF SHALL BE NOTIFIED IN WRITING 48 HOURS PRIOR TO STREET CLOSURES ON HILL ROAD:
 RICHMOND POLICE: 5600 HUNTER DRIVE, RICHMOND IL 60071
 RICHMOND FIRE: 5601 HUNTER DRIVE, RICHMOND IL 60071
 RICHMOND PUBLIC WORKS: 5600 HUNTER DRIVE, RICHMOND IL 60071
 RICHMOND TOWNSHIP: 7812 S. ROUTE 31, RICHMOND IL 60071
 NIPPERSINK LIBRARY: 5418 HILL ROAD, RICHMOND IL 60071
 MCHENRY COUNTY SHERIFF: 2200 N. SEMINARY AVE., WOODSTOCK IL 60098
2. THE ENGINEER SHALL BE INFORMED 48 HOURS IN ADVANCE OF ANY CHANGE IN CONSTRUCTION STAGING.
3. THE FURNISHING, INSTALLING, AND RELOCATION OF ALL TRAFFIC SIGNS SHALL BE INCLUDED IN THE COST OF TRAFFIC CONTROL AND PROTECTION FOR TEMPORARY DETOUR. ALL CONFLICTING TRAFFIC SIGNS SHALL BE COVERED AS DIRECTED BY THE ENGINEER. THIS SHALL BE INCLUDED IN THE COST OF TRAFFIC CONTROL AND PROTECTION FOR TEMPORARY DETOUR.
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. THE CONTRACTOR SHALL MAINTAIN EMERGENCY VEHICLE AND LOCAL TRAFFIC DURING THE CONSTRUCTION OF HILL ROAD AND HILL BRIDGE OVER THE N. BRANCH OF NIPPERSINK CREEK. THE COST FOR MAINTAINING ACCESS ON HILL ROAD SHALL BE INCLUDED IN THE COST OF TRAFFIC CONTROL AND PROTECTION FOR TEMPORARY DETOUR.
6. THE CONTRACTOR SHALL PROVIDE TEMPORARY ACCESS TO ALL ENTRANCES DURING THE CONSTRUCTION OF HILL ROAD AND HILL BRIDGE OVER THE N. BRANCH OF NIPPERSINK CREEK. THIS WORK SHALL BE PAID FOR AT THE CONTRACT UNIT PRICE PER EACH FOR TEMPORARY ACCESS (PRIVATE ENTRANCE).
7. CHANGEABLE MESSAGE SIGNS AND TEMPORARY INFORMATION SIGNING WILL BE PAID FOR SEPARATELY.

FILE NAME = S:\JUL_68000-68995\6842\087\Microstation\CAD\ Sheets\DI-63666-ah-t-detour.dgn

SA STRAND ASSOCIATES
 1170 SOUTH HOBOLT ROAD
 JOLIET, ILLINOIS 60431
 (815) 744-4200

USER NAME = brianf	DESIGNED TJS	REVISED - ---
PLOT SCALE = 50.0000' / IN.	DRAWN BJF	REVISED - ---
PLOT DATE = 1/3/2012	CHECKED AJS	REVISED - ---
	DATE -	REVISED - ---

**MCHENRY COUNTY DIVISION OF TRANSPORTATION
 HILL ROAD BRIDGE OVER
 NORTH BRANCH NIPPERSINK CREEK**

TEMPORARY DETOUR PLAN			
SCALE: AS SHOWN	SHEET NO.	OF SHEETS	STA. TO STA.

TR	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
21	08-00356-00-BR	MCHENRY	67	15
CONTRACT NO. 63666				
FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT				

IN-STREAM SEDIMENT AND EROSION CONTROL

THE CONTRACTOR SHALL CONTACT THE U.S. ARMY CORPS OF ENGINEERS, CHICAGO DISTRICT, WITH A PROPOSED COFFERDAM PLAN MEETING THE STANDARDS LISTED BELOW. MEANS AND METHODS FOR COMPLETING WORK WITHIN A WATERWAY MUST BE APPROVED BY THE CORPS PRIOR TO THE COMMENCEMENT OF WORK, THE CORPS WILL APPROVE THE COFFERDAM PLAN TO ENSURE IT MEETS EROSION AND SEDIMENT CONTROL STANDARDS. HOWEVER, IT IS INCUMBENT UPON THE CONTRACTOR TO ENSURE THAT ALL COFFERDAMS ARE CONSTRUCTED TO WITHSTAND EXPECTED FLOWS. ALL WORK NEEDED TO SATISFY ACOE REQUIREMENTS SHALL BE INCLUDED IN THE COST FOR REMOVAL OF EXISTING STRUCTURES.

WORK WITHIN A WATERWAY MUST MEET THE FOLLOWING STANDARDS:

1. WORK IN THE WATERWAY SHALL BE TIMED TO TAKE PLACE DURING LOW OR NO-FLOW CONDITIONS.
2. WATER SHALL BE ISOLATED FROM THE IN-STREAM WORK AREA USING A NON-ERODIBLE PROPOSED COFFERDAM (STEEL SHEETS, AQUA BARRIERS, ETC.). EARTHEN COFFERDAMS ARE NOT PERMISSIBLE.
3. WORK MAY NOT BE PERFORMED IN THE WATER, EXCEPT FOR THE PLACEMENT OF THE MATERIALS NECESSARY FOR THE CONSTRUCTION OF THE COFFERDAM. THE COFFERDAM MUST BE CONSTRUCTED FROM THE UPLAND AREA AND NO EQUIPMENT MAY ENTER THE WATER AT ANY TIME. ONCE THE COFFERDAM IS IN PLACE AND THE ISOLATED AREA IS DEWATERED, EQUIPMENT MAY ENTER THE COFFERED AREA TO PERFORM THE REQUIRED WORK.
4. 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 PRIOR TO REJOINING THE STREAM FLOW AND SHALL NOT CAUSE EROSION OF DOWNSTREAM AREAS. BYPASS WATER WILL BE FILTERED USING BMP TO MINIMIZE SEDIMENT TO DOWNSTREAM AREAS UNLESS OTHERWISE APPROVED BY ENGINEER.
5. DURING DEWATERING OF THE COFFERED AREA, ALL WATER MUST BE FILTERED TO REMOVE SEDIMENT, POSSIBLE OPTIONS FOR SEDIMENT REMOVAL INCLUDING BAFFLE SYSTEMS, ANIONIC POLYMERS, DEWATERING BAGS OR OTHER APPROPRIATE METHODS. WATER SHALL HAVE SEDIMENT REMOVED PRIOR TO BEING RE-INTRODUCED TO THE DOWNSTREAM WATERWAY. DISCHARGE WATER IS CONSIDERED CLEAN IF IT DOES NOT RESULT IN A VISUALLY IDENTIFIABLE DEGRADATION OF WATER CLARITY. THIS WORK SHALL BE PAID FOR IN ACCORDANCE WITH ARTICLE 502.13.
6. THE SIDE SLOPES SHALL BE RESEEDED AND STABILIZED WITH AN APPROPRIATE EROSION CONTROL BLANKET PRIOR TO ACCEPTING FLOWS. THE SUBSTRATE SHALL BE RESTORED TO PRE-CONSTRUCTION CONDITIONS AND STABLE ENOUGH TO ACCEPT FLOWS.
7. WHERE STREAM DISTURBANCE IS NECESSARY, THE STREAM BED AND BANKS SHALL BE STABILIZED WITHIN FORTY-EIGHT (48) HOURS AFTER DISTURBANCE IS COMPLETED OR INTERRUPTED.

EROSION AND SEDIMENT CONTROL

1. ALL AREAS OF BARE GROUND WILL BE TEMPORARILY SEEDED EVERY SEVEN (7) DAYS UNTIL PERMANENT EROSION CONTROL IS IN PLACE.
2. ALL AREAS WITHIN R.O.W. WILL BE RESTORED WITH 6" TOPSOIL, EROSION CONTROL BLANKET AND SEEDING, CLASS 2A AND CLASS 4.
3. DITCH CHECKS SHALL BE EITHER ROLLED EXCELSIOR OR TRIANGULAR SILT DIKES.
4. ENGINEER TO STAKE LOCATIONS FOR PROPOSED TREES AS SHOWN IN LANDSCAPING PLANS AND SHALL BE APPROVED BY MCHENRY COUNTY PRIOR TO INSTALLATION.
5. NO WORK SHALL BE PERFORMED IN FLOWING WATER. WORK IN OR NEAR THE CRITICAL AREAS SHOULD BE ISOLATED FROM CONCENTRATED FLOWS OR STREAM FLOW, ONCE WORK IS IN THIS AREA BEGINS, PRIORITY SHALL BE GIVEN TO THE COMPLETION OF THE WORK AND FINAL STABILIZATION OF ALL DISTURBED AREAS.
6. SOIL DISTURBANCE SHALL BE CONDUCTED IN SUCH A MANNER AS TO MINIMIZE EROSION. AREAS OF THE PROJECT SITE THAT ARE NOT TO BE GRADED SHALL BE PROTECTED FROM CONSTRUCTION TRAFFIC OR OTHER DISTURBANCE UNTIL FINAL SEEDING IS PERFORMED.
7. PROPERTIES AND CHANNELS ADJOINING THE PROJECT SITE SHALL BE PROTECTED FROM EROSION AND SEDIMENTATION.
8. SOIL EROSION AND SEDIMENT CONTROL FEATURES SHALL BE CONSTRUCTED PRIOR TO THE COMMENCEMENT OF HYDROLOGIC DISTURBANCE OF UPLAND AREAS.
9. PLACEMENT OF TOPSOIL SHALL BE COMPLETED WITHIN 10-15 DAYS AFTER THE COMPLETION OF PAVING UNLESS OTHERWISE DIRECTED BY THE ENGINEER. SEEDING SHALL BE PLACED EITHER PRIOR TO JUNE 15 OR AFTER SEPTEMBER 15.
10. DISTRIBUTED AREAS SHALL BE STABILIZED WITH TEMPORARY OR PERMANENT MEASURES WITHIN SEVEN (7) CALENDAR DAYS FOLLOWING THE END OF ACTIVE HYDROLOGIC DISTURBANCE.
11. ALL STORM SEWERS THAT ARE OR WILL BE FUNCTIONING DURING CONSTRUCTION SHALL BE PROTECTED BY AN APPROPRIATE SEDIMENT CONTROL MEASURE.
12. 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 MEASURES). THIS WORK SHALL BE PAID FOR IN ACCORDANCE WITH ARTICLE 502.13.
13. ALL TEMPORARY SOIL EROSION AND SEDIMENT CONTROL MEASURES SHALL BE REMOVED WITHIN THIRTY (30) DAYS AFTER FINAL SITE STABILIZATION IS ACHIEVED OR AFTER THE TEMPORARY MEASURES ARE NO LONGER NEEDED. TRAPPED SEDIMENT AND OTHER DISTURBED SOIL AREAS SHALL BE PERMANENTLY STABILIZED.
14. SOIL STOCKPILES SHALL NOT BE LOCATED IN A FLOOD-PRONE AREA OR A DESIGNATED BUFFER PROTECTING WATERS OF THE UNITED STATES OR ISOLATED WATERS OF MCHENRY COUNTY.
15. THE CONTRACTOR SHALL PROVIDE ADEQUATE RECEPTACLES FOR THE DISPOSAL 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 MATERIALS DEBRIS UPON OR INTO ANY DEVELOPMENT SITE, CHANNEL, WATERS OF THE U.S. OR ISOLATED WATERS OF MCHENRY COUNTY. THE CONTRACTOR SHALL MAINTAIN THE DEVELOPMENT SITE FREE OF CONSTRUCTION MATERIAL DEBRIS.
16. ALL TEMPORARY AND PERMANENT EROSION AND SEDIMENT CONTROL MEASURES SHALL BE MAINTAINED IN AN EFFECTIVE WORKING CONDITION.
17. HEAVY DUTY EROSION CONTROL BLANKET SHALL BE USED ON ALL AREAS OF PERMANENT SEEDING AND SHALL BE IN ACCORDANCE WITH THE "ILLINOIS URBAN MANUAL", LATEST EDITION AND "IDOT STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION" SECTIONS. LATEST EDITION SECTION 251.04.
18. WHERE STREAM BED DISTURBANCE IS NECESSARY, THE STREAM INCLUDING BED AND BANKS SHALL BE RESTABILIZED WITHIN FORTY-EIGHT (48) HOURS AFTER DISTURBANCE IS COMPLETE OR INTERRUPTED.

EROSION AND SEDIMENT CONTROL MAINTENANCE

1. TEMP. EROSION BARRIER: 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. HEAVY DUTY 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. INLET AND PROTECTION: AT A MINIMUM, THE CONTRACTOR SHALL INSPECT ALL INLET AND PIPE PROTECTION WEEKLY OR AFTER EACH ONE-HALF INCH OR GREATER RAINFALL EVENT. ANY REQUIRED REPAIRS SHALL BE MADE BY THE CONTRACTOR TO KEEP THE INLET AND PIPE PROTECTION FUNCTIONAL AS DESIGNED.


PER ARTICLE 280.08 EARTH EXCAVATION FOR SEDIMENT BASINS WILL BE PAID FOR AT THE CONTRACT UNIT PRICE FOR EARTH EXCAVATION FOR EROSION CONTROL.

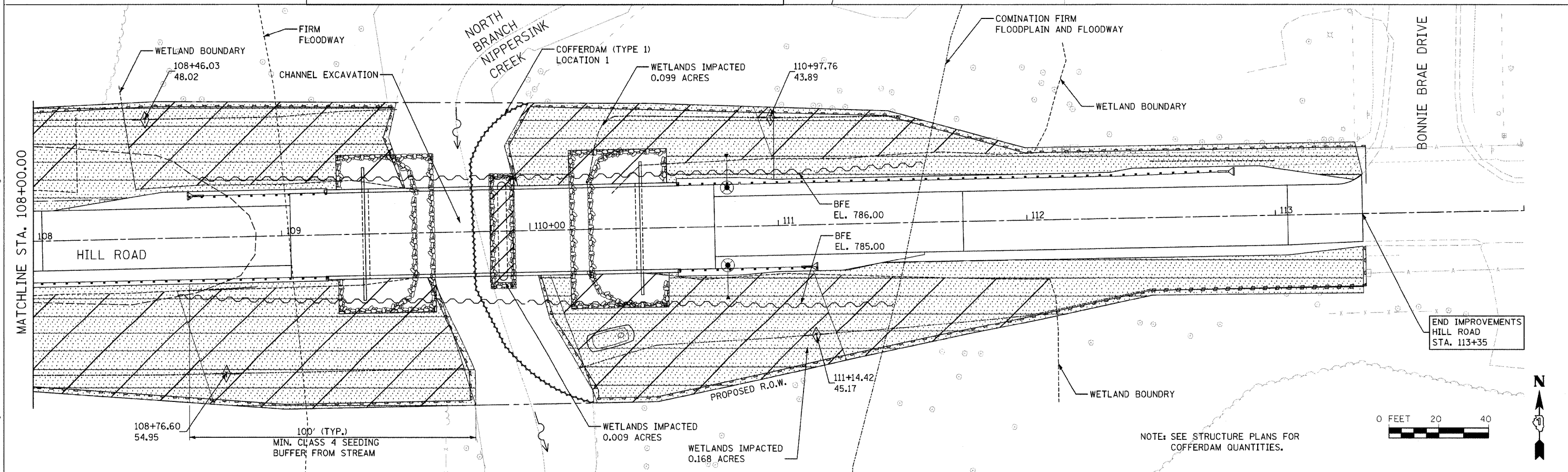
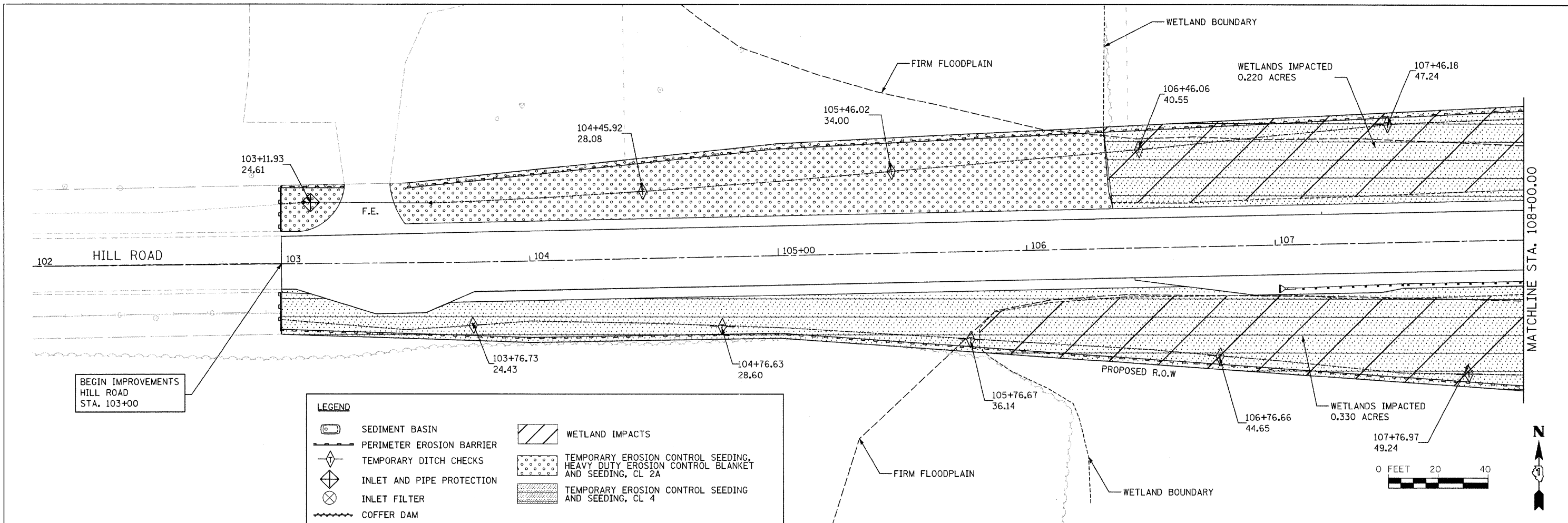
AGGREGATE USED FOR SEDIMENT BASINS WILL BE PAID FOR AT THE CONTRACT UNIT PRICE FOR AGGREGATE (EROSION CONTROL).

CONSTRUCTION SEQUENCE

1. INSTALL SEDIMENT AND EROSION CONTROL SYSTEMS
2. COMPLETE TREE REMOVAL, CLEARING, AND GRUBBING
3. STRIP AND STOCKPILE TOPSOIL AND BEGIN MASS GRADING. TEMPORARY SEED AS REQUIRED.
4. DEMOLISH EXISTING STRUCTURE WITHOUT IMPACT OR DEBRIS ENTERING THE EXISTING WATERWAY.
5. CONSTRUCT UNDERWATER STRUCTURE EXCAVATION PROTECTION AND INSTALL PILES AND STRUCTURE.
6. COMPLETE ROADWAY REPLACEMENT THRU BINDER AND GRADING.
7. COMPLETE FINAL SURFACE, PAVEMENT MARKINGS, AND RESTORATION.
8. REMOVE EROSION CONTROL MEASURES AND RESTORE.

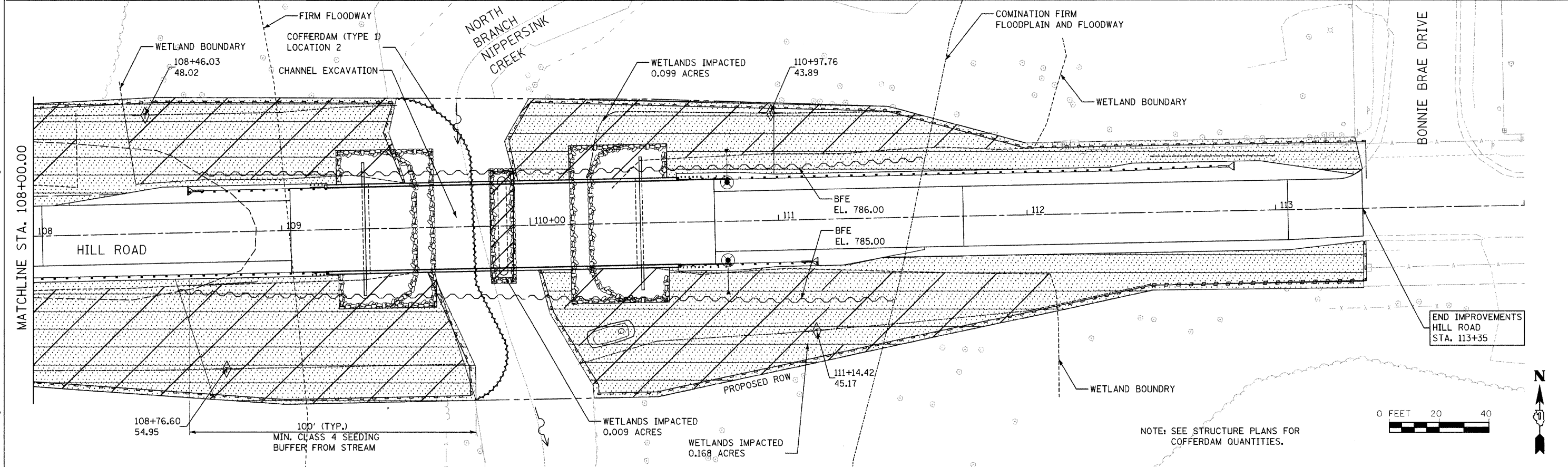
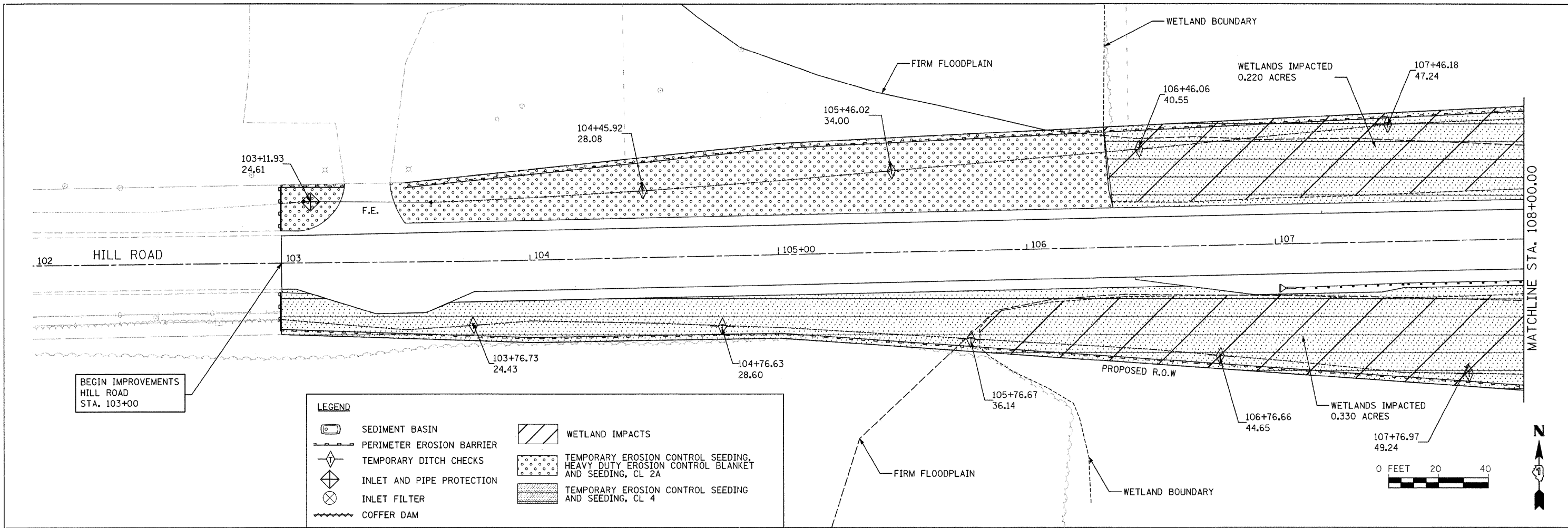
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 1170 SOUTH HOBOLT ROAD JOLIET, ILLINOIS 60431 (815) 744-4200	USER NAME = brianf	DESIGNED <i>TJS</i>	REVISED -	MCHENRY COUNTY DIVISION OF TRANSPORTATION HILL ROAD BRIDGE OVER NORTH BRANCH NIPPERSINK CREEK	EROSION CONTROL PLAN			TR	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	PLOT SCALE = 20.0000' / IN.	CHECKED <i>AJS</i>	REVISED -					21	08-00356-00-BR	MCHENRY	67	16
	PLOT DATE = 1/3/2012	DATE -	REVISED -		SCALE: AS SHOWN SHEET NO. OF SHEETS STA. TO STA.			FED. ROAD DIST. NO. 1 [ILLINOIS] FED. AID PROJECT				
								CONTRACT NO. 63666				



1170 SOUTH HOUBOLT ROAD JOLIET, ILLINOIS 60431 (815) 744-4200	USER NAME = brisnf	DESIGNED VLF	REVISED -	MCHENRY COUNTY DIVISION OF TRANSPORTATION HILL ROAD BRIDGE OVER NORTH BRANCH NIPPERSINK CREEK	EROSION CONTROL PLAN STAGE 1			TR	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	DRAWN BJF	CHECKED VLF	REVISED -					21	08-00356-00-BR	MCHENRY	67	17
	PLOT SCALE = 20.0000' / IN.	DATE -	REVISED -					CONTRACT NO. 63666				
	PLOT DATE = 1/5/2012	DATE -	REVISED -					FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT				
				SCALE: AS SHOWN			SHEET NO.	OF	SHEETS	STA.	TO STA.	

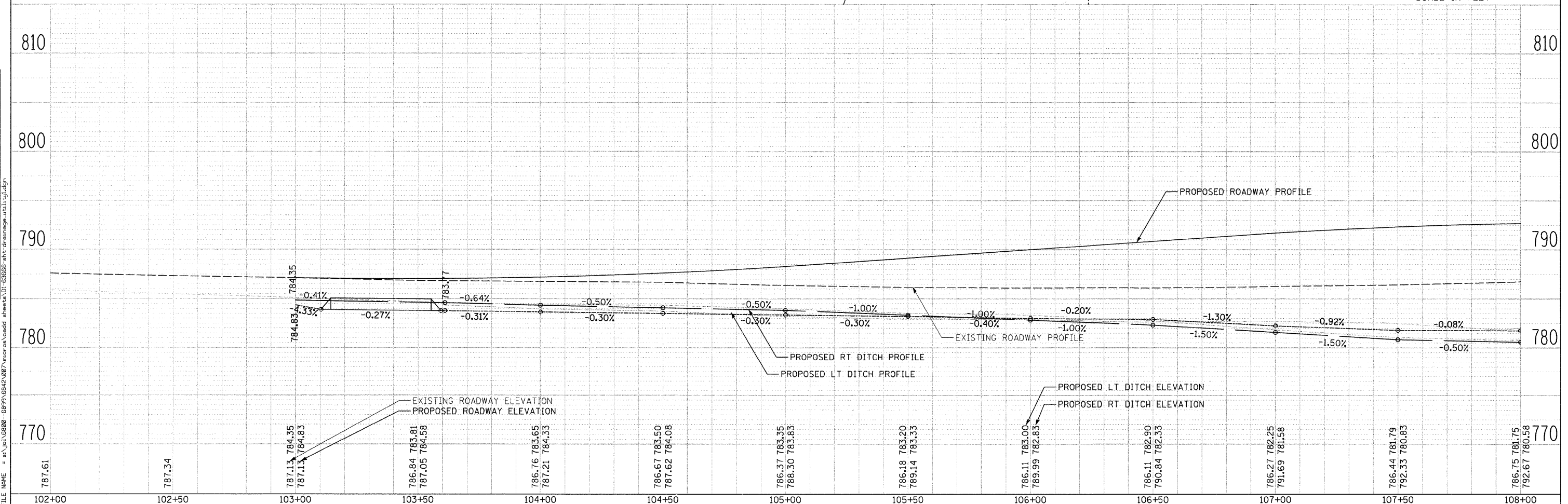
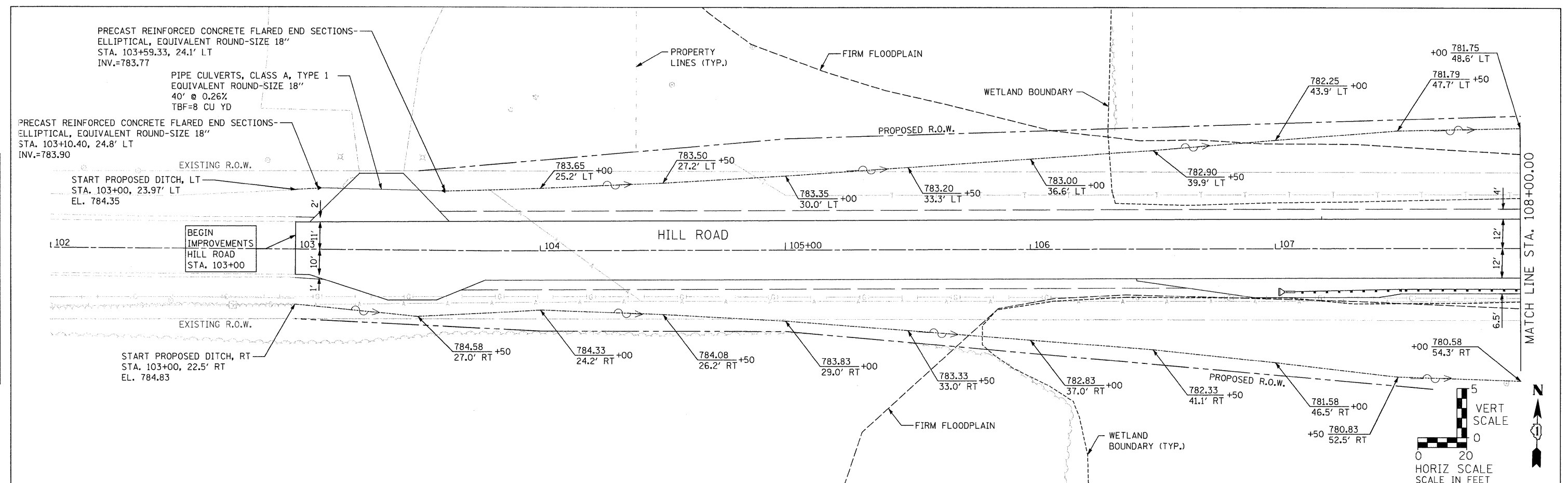
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1170 SOUTH HOUBOLT ROAD JOLIET, ILLINOIS 60431 (815) 744-4200	USER NAME = branf	DESIGNED VLF	REVISED -	MCHENRY COUNTY DIVISION OF TRANSPORTATION HILL ROAD BRIDGE OVER NORTH BRANCH NIPPERSINK CREEK	EROSION CONTROL PLAN STAGE 2			TR	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	DRAWN B/JF	CHECKED VLF	REVISED -					21	08-00356-00-BR	MCHENRY	67	18
	PLOT SCALE = 20.0000' / IN.	DATE -	REVISED -					CONTRACT NO. 63666				
	PLOT DATE = 1/5/2012	DATE -	REVISED -					FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT				
				SCALE: AS SHOWN	SHEET NO.	OF SHEETS	STA.	TO STA.				

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2. CHECKED	
3. APPROVED	
4. FILE NAME	
PLAN	
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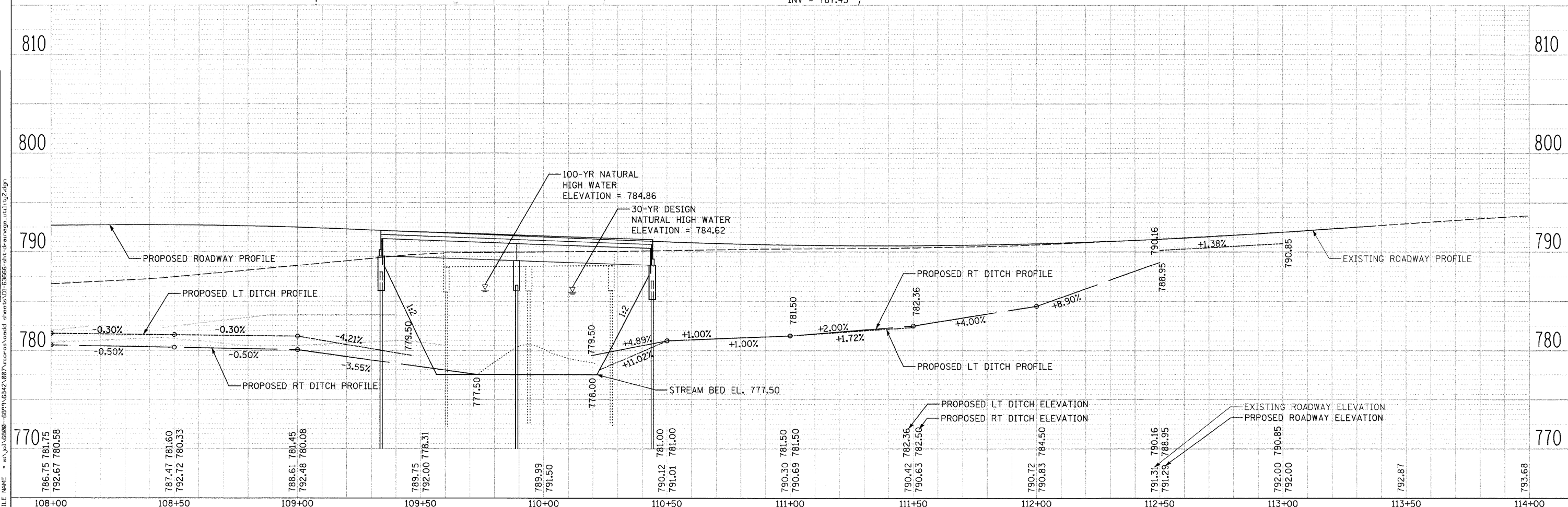
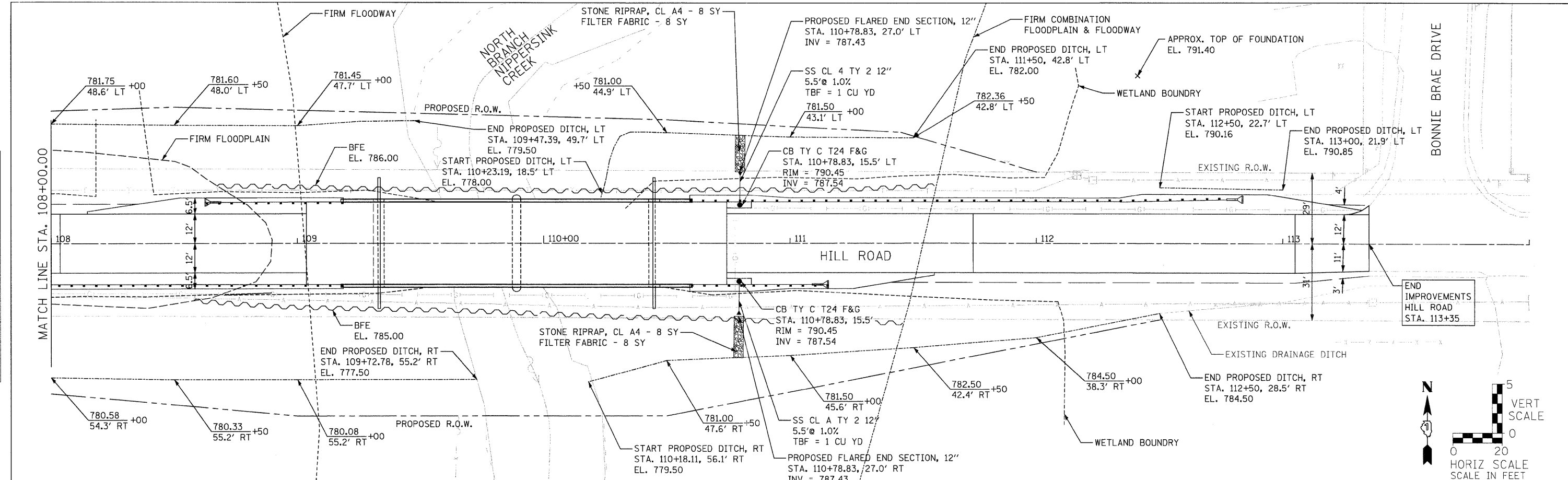
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1170 SOUTH HOUBOLT ROAD JOLIET, ILLINOIS 60431 (815) 744-4200	USER NAME = brianf	DESIGNED VLF	REVISOR -	MCHENRY COUNTY DIVISION OF TRANSPORTATION HILL ROAD BRIDGE OVER NORTH BRANCH NIPPERSINK CREEK	DRAINAGE AND UTILITY PLAN	TR	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	PLOT SCALE = 20.0000" / IN.	DRAWN SMH	REVISOR -			21	08-00356-00-BR	MCHENRY	67	19
PLOT DATE = 1/3/2012	CHECKED VLF	REVISOR -	SCALE: AS SHOWN	SHEET NO.	OF	SHEETS	STA. 102+00.00 TO STA. 108+00.00	FED. ROAD DIST. NO. 1	ILLINOIS	FED. AID PROJECT
								CONTRACT NO. 63666		

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BY	
REVISIONS	
NOTED	
GRADES CHECKED	
E.M. NOTED	
FILE NAME	
PROFILE	
NO.	



1170 SOUTH HOUBOLT ROAD
JOLIET, ILLINOIS 60431
(815) 744-4200

USER NAME = brianf	DESIGNED VLF	REVISED -
	CHECKED AJS	REVISED -
PLOT SCALE = 20.0000' / IN.	DRAWN SMH	REVISED -
PLOT DATE = 1/3/2012	CHECKED VLF	REVISED -

MCHENRY COUNTY DIVISION OF TRANSPORTATION
HILL ROAD BRIDGE OVER
NORTH BRANCH NIPPERSINK CREEK

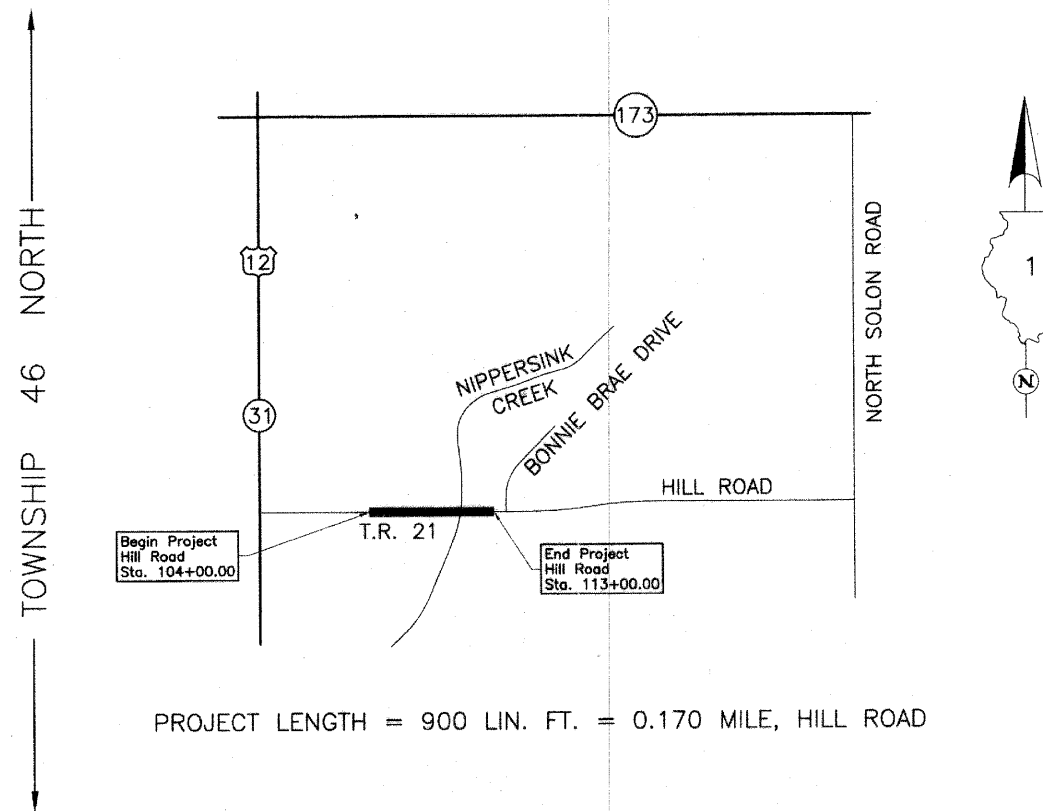
DRAINAGE AND UTILITY PLAN			
SCALE: AS SHOWN	SHEET NO.	OF SHEETS	STA. 108+00.00 TO STA. 114+00.00

TR	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
21	08-00356-00-BR	MCHENRY	67	20
CONTRACT NO. 63666				
FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT				

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

ROUTE: T.R. 21 (HILL ROAD)
 SECTION: 08-00356-00-BR
 PROJECT NO.: BROS-0111(051)
 JOB NO.: R-91-003-09
 COUNTY: McHENRY
 LIMITS: @ NORTH BRANCH NIPPERSINK CREEK

← RANGE 8 EAST →

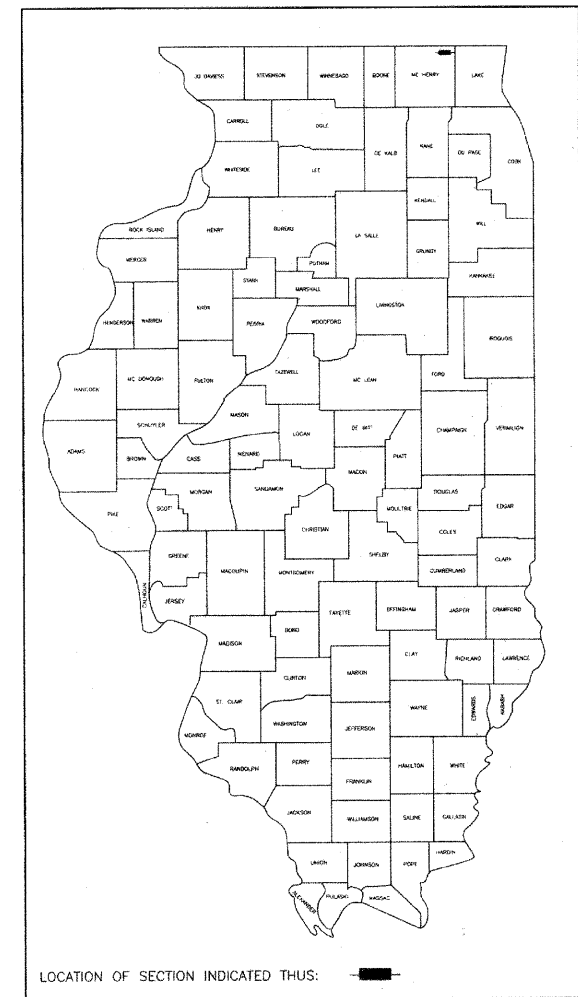


PROJECT LENGTH = 900 LIN. FT. = 0.170 MILE, HILL ROAD

* T.R. 21 (HILL ROAD)

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
*	**	McHENRY	7	1
F.H.W.A. REG.		BLANDS PROJECT		

** 08-00356-00-BR
R-91-003-09



APPROVED _____ 20 _____
 LOCAL AGENCY OFFICIAL

APPROVED _____ 20 _____
 ENGINEER OF LAND ACQUISITION

APPROVED _____ 20 _____
 ENGINEER OF LOCAL ROADS & STREETS

APPROVED _____ 20 _____
 DISTRICT ENGINEER

STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION

PARCEL NUMBER	OWNER	TOTAL HOLDINGS ACRES	PART TAKEN ACRES	AREA IN EXISTING R.O.W. ACRES	REMAINDER AREA ACRES	EASEMENT AREA ACRES	EASEMENT PURPOSE	PERMANENT INDEX NUMBER	PROPERTY ACQUIRED BY
0001	Pioneer Trust & Savings Bank as Trustee under Trust Agreement dated May 20, 1966 known as Trust No. 15520	99.224	1.163	0.654	98.061	N/A	N/A	04-16-400-007	

Point Number	Tie to point	Tie Distance (feet)
1	T1	15.48
	T2	11.68
	T3	15.66
2	BT1	12.07
	BT2	6.45
	BT3	11.82
3	BT1	14.37
	BT2	9.69
	BT3	14.14
4	T1	28.74
	T2	16.13
	T3	26.70
5	T1	28.63
	T2	20.15
	T3	25.37
6	T1	24.90
	T2	18.44
	T3	24.66

Parcel	Document No.	Date Recorded
0001	559366	January 21, 1972
----	559366	January 21, 1972

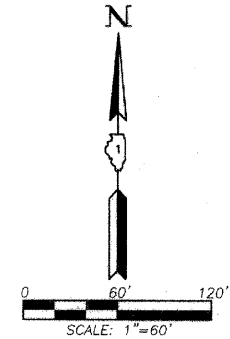
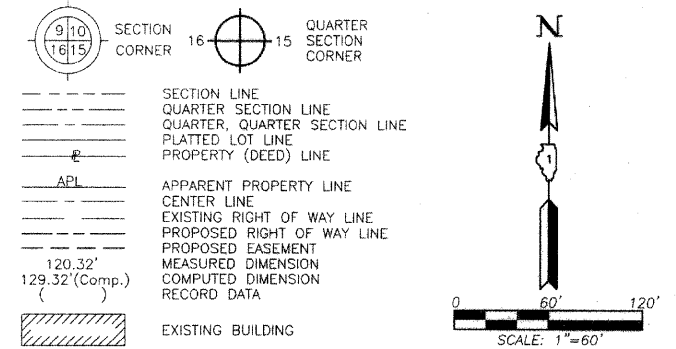
Note: Surface Coordinates are Shown

STATION	OFFSET	NORTH	EAST
102+99.82	5.57' Lt.	2,112,048.632	992,575.721
103+00.00	24.43' Rt.	2,112,018.636	992,576.188
104+00.00	32.84' Rt.	2,112,011.444	992,676.661
105+00.12	33.26' Rt.	2,112,013.188	992,776.768
109+00.00	70.00' Rt.	2,111,985.133	993,177.350
110+50.00	70.00' Rt.	2,111,988.387	993,327.314
112+50.00	29.07' Rt.	2,112,033.439	993,526.310
112+50.11	0.93' Lt.	2,112,063.436	993,525.843
113+32.11	30.64' Lt.	2,112,094.708	993,607.262
113+92.11	30.42' Lt.	2,112,095.642	993,667.255
115+61.43	37.33' Rt.	2,112,038.345	993,841.167
115+61.60	7.19' Rt.	2,112,068.296	993,837.781
115+61.77	22.96' Lt.	2,112,098.246	993,834.376

Existing & Proposed Pavement Hill Road Curve #1

P.I. = Sta. 115+50.02
 Δ = 10°27'21"
 R = 1399.21'
 T = 128.03'
 L = 255.34'
 E = 5.84'
 P.C. = Sta. 114+21.99
 P.T. = Sta. 116+77.33

LEGEND



- IRON PIPE OR ROD FOUND
- + CUT CROSS FOUND OR SET
- T1 THESE STAKES REFERENCED FOUND OR SET MONUMENTATION. SET 5/8 INCH IRON ROD FLUSH WITH GROUND TO TIE FOUND IRON STAKE. IDENTIFIED BY COLORED PLASTIC CAP BEARING SURVEYORS REGISTRATION NUMBER.
- BT1 THESE STAKES, IN CULTIVATED AREAS, REFERENCED FOUND OR SET MONUMENTATION. BURIED 5/8 INCH IRON ROD 20 INCHES BELOW GROUND TO TIE FOUND IRON STAKE. IDENTIFIED BY COLORED PLASTIC CAP BEARING SURVEYORS REGISTRATION NUMBER.
- STAKING OF PROPOSED RIGHT OF WAY. SET DIVISION OF HIGHWAYS SURVEY MARKER TO MONUMENT THE POSITION SHOWN. IDENTIFIED BY INSCRIPTION DATA AND SURVEYORS REGISTRATION NUMBER.
- M STAKING OF PROPOSED RIGHT OF WAY IN CULTIVATED AREAS. BURIED 5/8 INCH METAL ROD 20 INCHES BELOW GROUND TO MARK FUTURE SURVEY MARKER POSITION IDENTIFIED BY COLORED PLASTIC CAP BEARING SURVEYORS REGISTRATION NUMBER.
- PERMANENT SURVEY MARKER, I.D.O.T STD 2135 (TO BE SET BY OTHERS)
- RIGHT OF WAY STAKING PROPOSED TO BE SET.

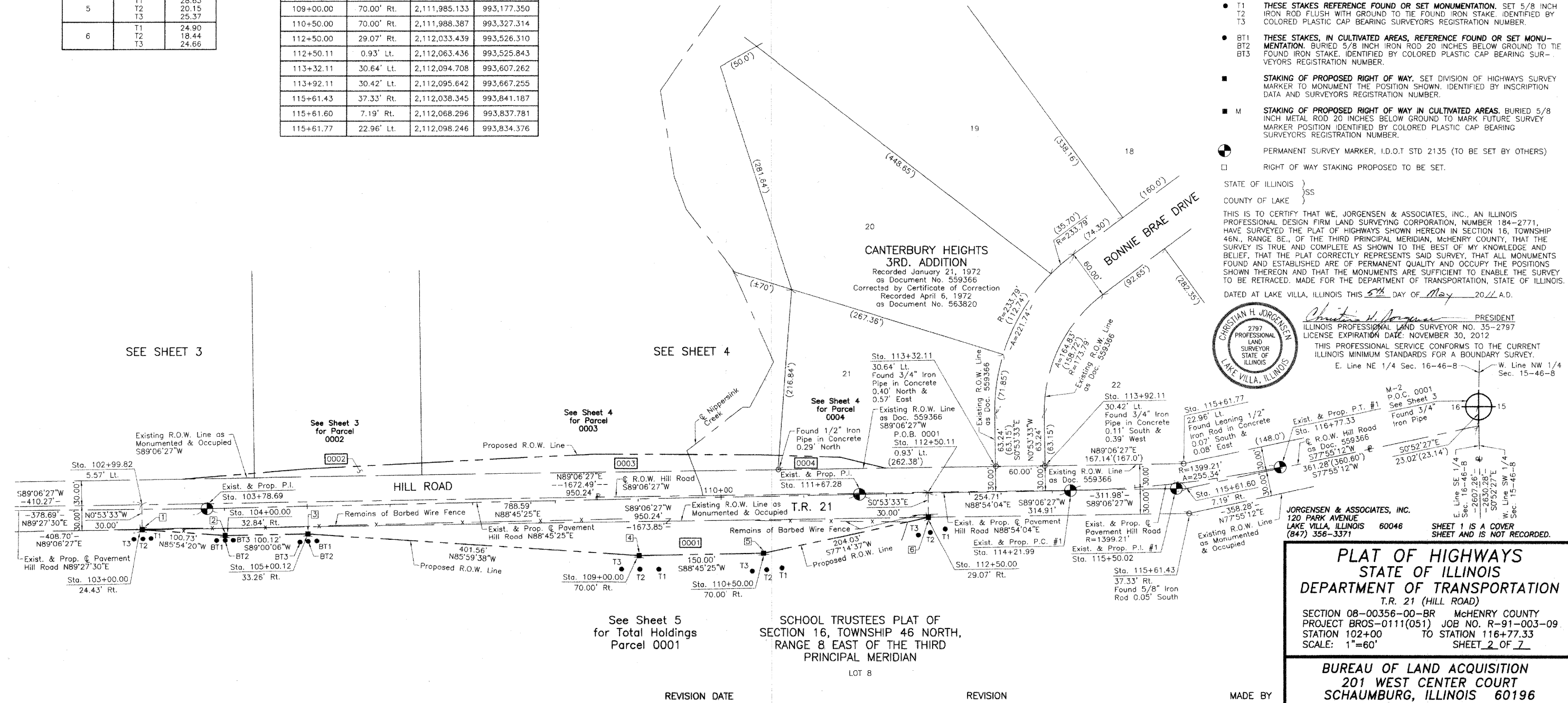
STATE OF ILLINOIS }
 COUNTY OF LAKE } SS

THIS IS TO CERTIFY THAT WE, JORGENSEN & ASSOCIATES, INC., AN ILLINOIS PROFESSIONAL DESIGN FIRM LAND SURVEYING CORPORATION, NUMBER 184-2771, HAVE SURVEYED THE PLAT OF HIGHWAYS SHOWN HEREON IN SECTION 16, TOWNSHIP 46N., RANGE 8E., 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 LAKE VILLA, ILLINOIS THIS 5th DAY OF May 2011 A.D.



Christian H. Jorgensen, PRESIDENT
 2797 ILLINOIS PROFESSIONAL LAND SURVEYOR NO. 35-2797
 LICENSE EXPIRATION DATE: NOVEMBER 30, 2012
 THIS PROFESSIONAL SERVICE CONFORMS TO THE CURRENT ILLINOIS MINIMUM STANDARDS FOR A BOUNDARY SURVEY.
 E. Line NE 1/4 Sec. 16-46-8 W. Line NW 1/4 Sec. 15-46-8



PLAT OF HIGHWAYS
 STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION
 T.R. 21 (HILL ROAD)
 SECTION 08-00356-00-BR McHENRY COUNTY
 PROJECT BROS-0111(051) JOB NO. R-91-003-09
 STATION 102+00 TO STATION 116+77.33
 SCALE: 1"=60' SHEET 2 OF 7

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

EXISTING R.O.W. RECORDED INFORMATION		
Parcel	Document No.	Date Recorded
----	559366	January 21, 1972

LEGEND

SECTION CORNER 16 15 QUARTER SECTION CORNER

SECTION LINE
QUARTER SECTION LINE
QUARTER, QUARTER SECTION LINE
PLATTED LOT LINE
PROPERTY (DEED) LINE

APL APPARENT PROPERTY LINE
CENTER LINE
EXISTING RIGHT OF WAY LINE
PROPOSED EASEMENT
MEASURED DIMENSION
COMPUTED DIMENSION
RECORD DATA

EXISTING BUILDING
Bearings and Coordinates are referenced to the Illinois Coordinate System NAD 83(2007) East Zone.

○ IRON PIPE OR ROD FOUND ⊕ "MAG" NAIL SET
+ CUT CROSS FOUND OR SET ● 5/8" REBAR SET

● T1 THESE STAKES REFERENCE FOUND OR SET MONUMENTATION. SET 5/8 INCH IRON ROD FLUSH WITH GROUND TO THE FOUND IRON STAKE. IDENTIFIED BY COLORED PLASTIC CAP BEARING SURVEYORS REGISTRATION NUMBER.
● T2
● T3

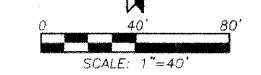
● BT1 THESE STAKES, IN CULTIVATED AREAS, REFERENCE FOUND OR SET MONUMENTATION. BURIED 5/8 INCH IRON ROD 20 INCHES BELOW GROUND TO THE FOUND IRON STAKE. IDENTIFIED BY COLORED PLASTIC CAP BEARING SURVEYORS REGISTRATION NUMBER.
● BT2
● BT3

■ STAKING OF PROPOSED RIGHT OF WAY. SET DIVISION OF HIGHWAYS SURVEY MARKER TO MONUMENT THE POSITION SHOWN. IDENTIFIED BY INSCRIPTION DATA AND SURVEYORS REGISTRATION NUMBER.

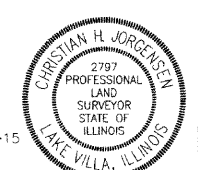
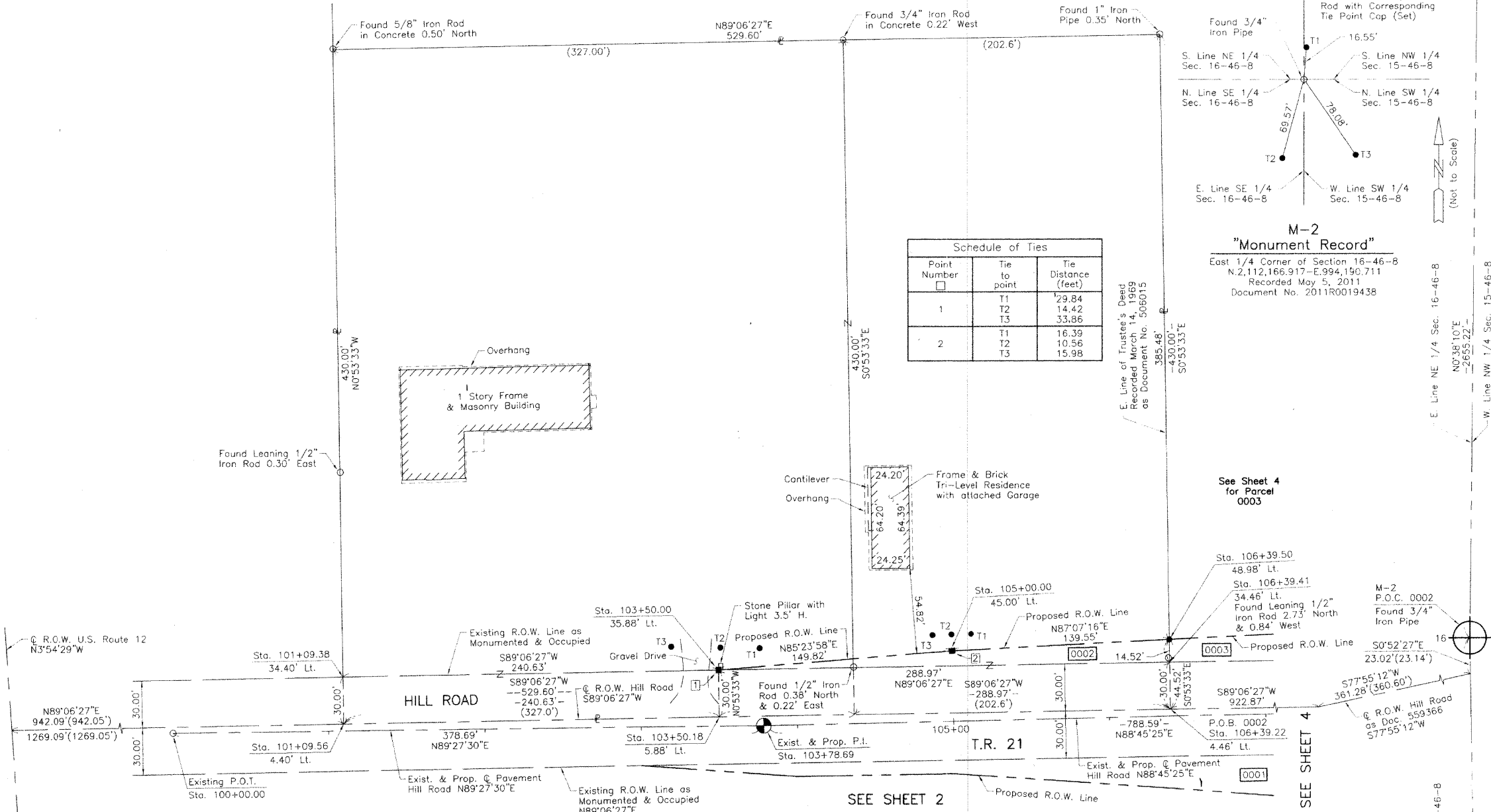
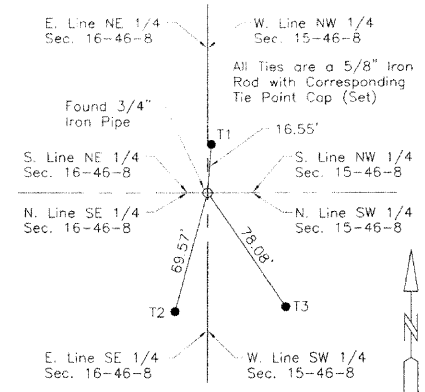
■ M STAKING OF PROPOSED RIGHT OF WAY IN CULTIVATED AREAS. BURIED 5/8 INCH METAL ROD 20 INCHES BELOW GROUND TO MARK FUTURE SURVEY MARKER POSITION IDENTIFIED BY COLORED PLASTIC CAP BEARING SURVEYORS REGISTRATION NUMBER.

⊕ PERMANENT SURVEY MARKER, I.D.O.T STD 2135 (TO BE SET BY OTHERS)

□ RIGHT OF WAY STAKING PROPOSED TO BE SET.



Schedule of Ties		
Point Number	Tie to point	Tie Distance (feet)
1	T1	29.84
	T2	14.42
	T3	33.86
2	T1	16.39
	T2	10.56
	T3	15.98



THIS IS TO CERTIFY THAT WE, JORGENSEN & ASSOCIATES, INC., AN ILLINOIS PROFESSIONAL DESIGN FIRM LAND SURVEYING CORPORATION, NUMBER 184-2771, HAVE SURVEYED THE PLAT OF HIGHWAYS SHOWN HEREON IN SECTION 16, TOWNSHIP 46N., RANGE 8E., 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 LAKE VILLA, ILLINOIS THIS 5th DAY OF May 2011 A.D.

Christian H. Jorgensen PRESIDENT
ILLINOIS PROFESSIONAL LAND SURVEYOR NO. 35-2797
LICENSE EXPIRATION DATE: NOVEMBER 30, 2012
THIS PROFESSIONAL SERVICE CONFORMS TO THE CURRENT ILLINOIS MINIMUM STANDARDS FOR A BOUNDARY SURVEY.
Note: Surface Coordinates are Shown

COORDINATE TABLE			
STATION	OFFSET	NORTH	EAST
101+09.38	34.40' Lt.	2,112,075.665	992,385.016
101+09.56	4.40' Lt.	2,112,045.668	992,385.484
103+50.00	35.88' Lt.	2,112,079.413	992,625.616
103+50.18	5.88' Lt.	2,112,049.417	992,626.083
105+00.00	45.00' Lt.	2,112,091.430	992,774.949
106+39.22	4.46' Lt.	2,112,053.919	992,915.020
106+39.41	34.46' Lt.	2,112,083.915	992,914.552
106+39.50	48.98' Lt.	2,112,098.438	992,914.326

SCHOOL TRUSTEES PLAT OF SECTION 16, TOWNSHIP 46 NORTH, RANGE 8 EAST OF THE THIRD PRINCIPAL MERIDIAN
LOT 8

PARCEL NUMBER	OWNER	TOTAL HOLDINGS ACRES	PART TAKEN ACRES	AREA IN EXISTING R.O.W. ACRES	REMAINDER AREA ACRES	EASEMENT AREA ACRES	EASEMENT PURPOSE	PERMANENT INDEX NUMBER	PROPERTY ACQUIRED BY
0002	Ben Hur Lodge #870 of the Independent Order of Oddfellows	5.228	0.254	0.199	4.974	N/A	N/A	04-16-252-002 04-16-252-003	

REVISION DATE REVISION MADE BY

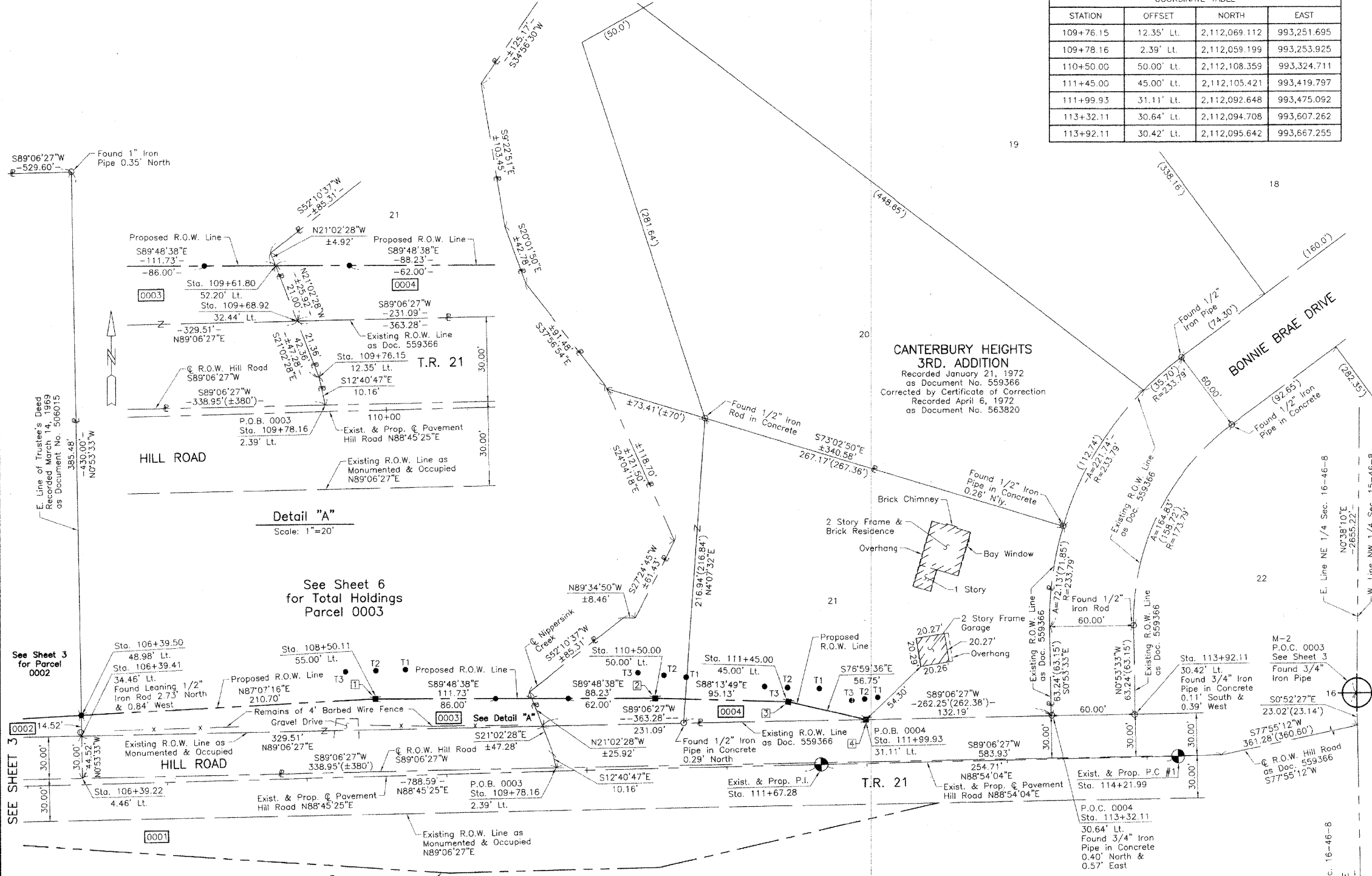
JORGENSEN & ASSOCIATES, INC.
120 PARK AVENUE
LAKE VILLA, ILLINOIS 60046
(847) 356-3371

SHEET 1 IS A COVER SHEET AND IS NOT RECORDED.

PLAT OF HIGHWAYS
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION
T.R. 21 (HILL ROAD)
SECTION 08-00356-00-BR McHENRY COUNTY
PROJECT BROS-0111(051) JOB NO. R-91-003-09
STATION 100+00.00 TO STATION 107+00
SCALE: 1"=40' SHEET 3 OF 7

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

PART OF THE EAST 1/2 OF SEC. 16, TWP. 46 N., R. 8 E. OF THE 3RD. P.M., IN McHENRY COUNTY, ILLINOIS.



COORDINATE TABLE

STATION	OFFSET	NORTH	EAST
109+76.15	12.35' Lt.	2,112,069.112	993,251.695
109+78.16	2.39' Lt.	2,112,059.199	993,253.925
110+50.00	50.00' Lt.	2,112,108.359	993,324.711
111+45.00	45.00' Lt.	2,112,105.421	993,419.797
111+99.93	31.11' Lt.	2,112,092.648	993,475.092
113+32.11	30.64' Lt.	2,112,094.708	993,607.262
113+92.11	30.42' Lt.	2,112,095.642	993,667.255

LEGEND

SECTION CORNER 16
 QUARTER SECTION CORNER

SECTION LINE
 QUARTER SECTION LINE
 QUARTER, QUARTER SECTION LINE
 PLATTED LOT LINE
 PROPERTY (DEED) LINE

APL APPARENT PROPERTY LINE
 CENTER LINE
 EXISTING RIGHT OF WAY LINE
 PROPOSED RIGHT OF WAY LINE
 PROPOSED EASEMENT
 MEASURED DIMENSION
 COMPUTED DIMENSION
 RECORD DATA

EXISTING BUILDING

IRON PIPE OR ROD FOUND
 CUT CROSS FOUND OR SET

THESE STAKES REFERENCE FOUND OR SET MONUMENTATION. SET 5/8 INCH IRON ROD FLUSH WITH GROUND TO THE FOUND IRON STAKE. IDENTIFIED BY COLORED PLASTIC CAP BEARING SURVEYORS REGISTRATION NUMBER.
 THESE STAKES, IN CULTIVATED AREAS, REFERENCE FOUND OR SET MONUMENTATION. BURIED 5/8 INCH IRON ROD 20 INCHES BELOW GROUND TO THE FOUND IRON STAKE. IDENTIFIED BY COLORED PLASTIC CAP BEARING SURVEYORS REGISTRATION NUMBER.

STAKING OF PROPOSED RIGHT OF WAY. SET DIVISION OF HIGHWAYS SURVEY MARKER TO MONUMENT THE POSITION SHOWN. IDENTIFIED BY INSCRIPTION DATA AND SURVEYORS REGISTRATION NUMBER.
 STAKING OF PROPOSED RIGHT OF WAY IN CULTIVATED AREAS. BURIED 5/8 INCH METAL ROD 20 INCHES BELOW GROUND TO MARK FUTURE SURVEY MARKER POSITION IDENTIFIED BY COLORED PLASTIC CAP BEARING SURVEYORS REGISTRATION NUMBER.

PERMANENT SURVEY MARKER, I.D.O.T STD 2135 (TO BE SET BY OTHERS)
 RIGHT OF WAY STAKING PROPOSED TO BE SET.

STATE OF ILLINOIS }
 COUNTY OF LAKE }SS

THIS IS TO CERTIFY THAT WE, JORGENSEN & ASSOCIATES, INC., AN ILLINOIS PROFESSIONAL DESIGN FIRM LAND SURVEYING CORPORATION, NUMBER 184-2771, HAVE SURVEYED THE PLAT OF HIGHWAYS SHOWN HEREON IN SECTION 16, TOWNSHIP 46N., RANGE 8E., 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 LAKE VILLA, ILLINOIS THIS 5th DAY OF May, 2011 A.D.

CHRISTIAN H. JORGENSEN
 2797 PROFESSIONAL LAND SURVEYOR STATE OF ILLINOIS
 LAKE VILLA, ILLINOIS

RESIDENT ILLINOIS PROFESSIONAL LAND SURVEYOR NO. 35-2797
 LICENSE EXPIRATION DATE: NOVEMBER 30, 2012
 THIS PROFESSIONAL SERVICE CONFORMS TO THE CURRENT ILLINOIS MINIMUM STANDARDS FOR A BOUNDARY SURVEY.

Note: Surface Coordinates are Shown

Detail "A"
 Scale: 1"=20'

See Sheet 6 for Total Holdings Parcel 0003

See Sheet 3 for Parcel 0002

See Sheet 2 for Parcel 0001

SEE SHEET 2

SCHOOL TRUSTEES PLAT OF SECTION 16, TOWNSHIP 46 NORTH, RANGE 8 EAST OF THE THIRD PRINCIPAL MERIDIAN LOT 8

Schedule of Ties

Point Number	Tie to point	Tie Distance (feet)
1	T1	29.79
	T2	20.02
	T3	28.76
2	T1	26.73
	T2	17.49
	T3	22.00
3	T1	24.07
	T2	10.22
	T3	20.29
4	T1	17.85
	T2	14.70
	T3	16.89

EXISTING R.O.W. RECORDED INFORMATION

Parcel	Document No.	Date Recorded
0004	559366	January 21, 1972
----	559366	January 21, 1972

COORDINATE TABLE

STATION	OFFSET	NORTH	EAST
106+39.22	4.46' Lt.	2,112,053.919	992,915.020
106+39.41	34.46' Lt.	2,112,083.915	992,914.552
106+39.50	48.98' Lt.	2,112,098.438	992,914.326
108+50.11	55.00' Lt.	2,112,109.020	993,124.758
109+61.80	52.20' Lt.	2,112,108.651	993,236.485
109+68.92	32.44' Lt.	2,112,089.048	993,244.026

JORGENSEN & ASSOCIATES, INC.
 120 PARK AVENUE
 LAKE VILLA, ILLINOIS 60046
 (847) 356-3371

60046 SHEET 1 IS A COVER SHEET AND IS NOT RECORDED.

PLAT OF HIGHWAYS
 STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION
 T.R. 21 (HILL ROAD)
 SECTION 08-00356-00-BR McHENRY COUNTY
 PROJECT BROS-0111(051) JOB NO. R-91-003-09
 STATION 106+00 TO STATION 114+21.99
 SCALE: 1"=40' SHEET 4 OF 7

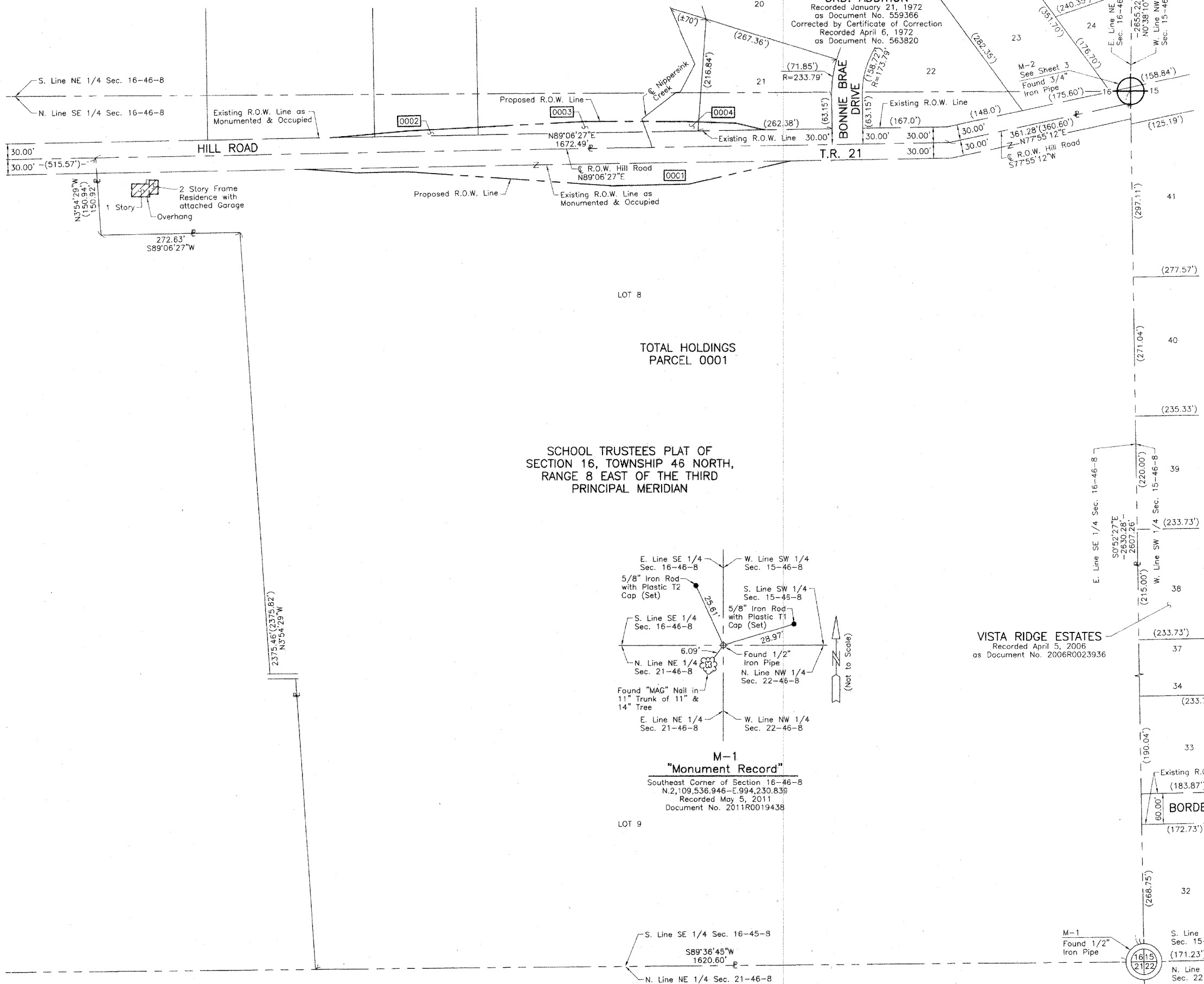
BUREAU OF LAND ACQUISITION
 201 WEST CENTER COURT
 SCHAUMBURG, ILLINOIS 60196

PARCEL NUMBER	OWNER	TOTAL HOLDINGS ACRES	PART TAKEN ACRES	AREA IN EXISTING R.O.W. ACRES	REMAINDER AREA ACRES	EASEMENT AREA ACRES	EASEMENT PURPOSE	PERMANENT INDEX NUMBER	PROPERTY ACQUIRED BY
0003	American Community Bank & Trust	56.047**	0.373	0.231	55.674**	N/A	N/A	04-16-252-017	
0004	Jon Hansen and Ellen B. Hansen, formally known as Ellen B. Tilton, in joint tenancy	1.321*	0.080	N/A	1.241*	N/A	N/A	04-16-276-001	

* Riparian Boundary, Area Subject to Change.
 ** Area based on that part lying in the East 1/2 of Section 16 Only and Section 16 Only and Area Subject to Change.

PART OF THE EAST 1/2 OF SEC. 16, TWP. 46 N., R. 8 E. OF THE 3RD. P.M., IN McHENRY COUNTY, ILLINOIS.

**CANTERBURY HEIGHTS
3RD. ADDITION**
Recorded January 21, 1972
as Document No. 559366
Corrected by Certificate of Correction
Recorded April 6, 1972
as Document No. 563820



LEGEND

- SECTION CORNER
- QUARTER SECTION CORNER
- SECTION LINE
- QUARTER SECTION LINE
- QUARTER, QUARTER SECTION LINE
- PLATTED LOT LINE
- PROPERTY (DEED) LINE
- APL
- APPARENT PROPERTY LINE
- CENTER LINE
- EXISTING RIGHT OF WAY LINE
- PROPOSED RIGHT OF WAY LINE
- PROPOSED EASEMENT
- MEASURED DIMENSION
- COMPUTED DIMENSION
- RECORD DATA
- EXISTING BUILDING

Bearings and Coordinates are referenced to the Illinois Coordinate System NAD 83(2007) East Zone.

○ IRON PIPE OR ROD FOUND ● "MAG" NAIL SET
 + CUT CROSS FOUND OR SET ● 5/8" REBAR SET

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 ● PERMANENT SURVEY MARKER, I.D.O.T STD 2135 (TO BE SET BY OTHERS)
 □ RIGHT OF WAY STAKING PROPOSED TO BE SET.

STATE OF ILLINOIS }
COUNTY OF LAKE }SS

THIS IS TO CERTIFY THAT WE, JORGENSEN & ASSOCIATES, INC., AN ILLINOIS PROFESSIONAL DESIGN FIRM LAND SURVEYING CORPORATION, NUMBER 184-2771, HAVE SURVEYED THE PLAT OF HIGHWAYS SHOWN HEREON IN SECTION 16, TOWNSHIP 46N., RANGE 8E., 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 LAKE VILLA, ILLINOIS THIS 5th DAY OF May 2011 A.D.

Christian H. Jorgensen PRESIDENT
ILLINOIS PROFESSIONAL LAND SURVEYOR NO. 35-2797
LICENSE EXPIRATION DATE, NOVEMBER 30, 2012
THIS PROFESSIONAL SERVICE CONFORMS TO THE CURRENT ILLINOIS MINIMUM STANDARDS FOR A BOUNDARY SURVEY.

Note: Surface Coordinates are Shown



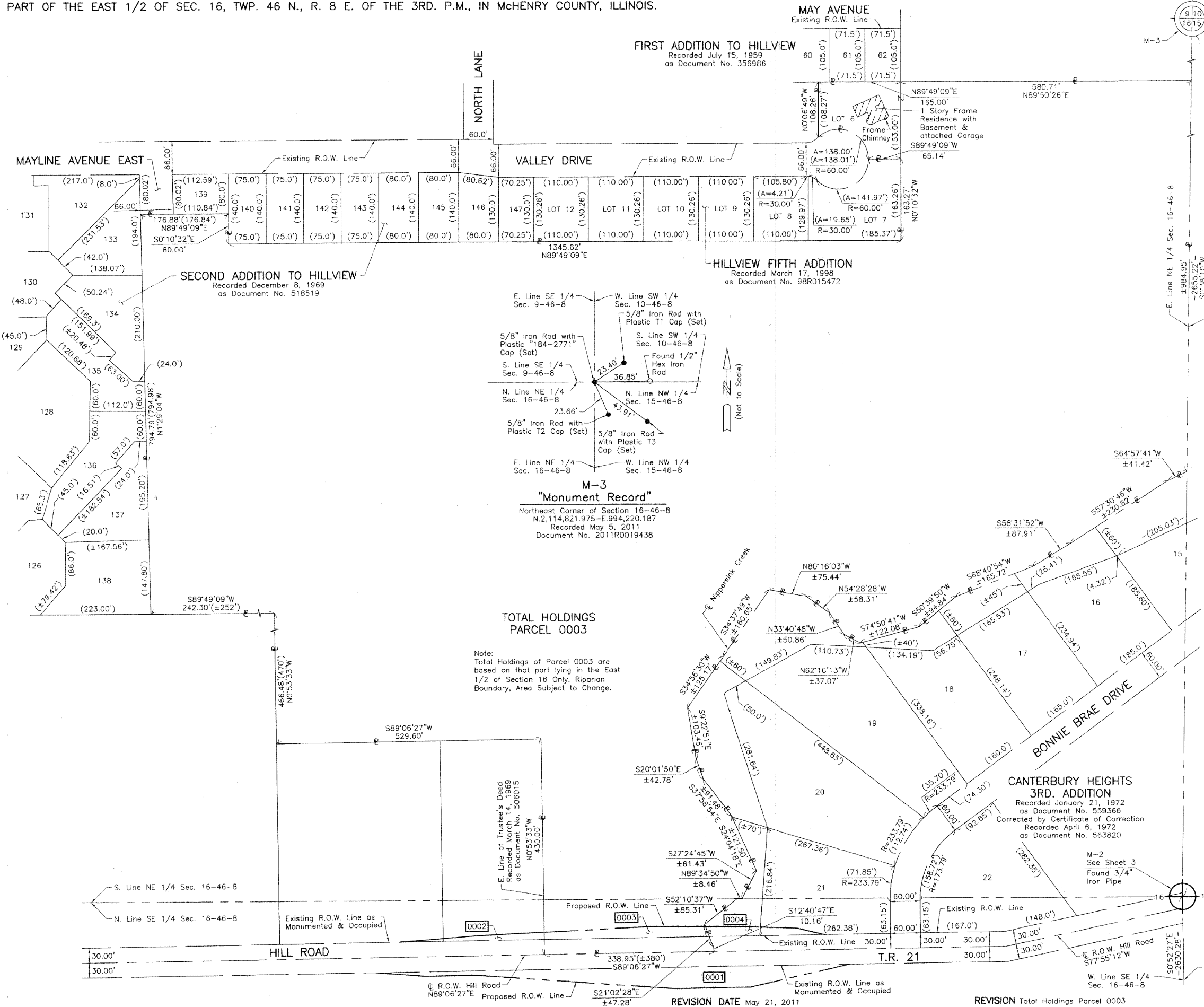
VISTA RIDGE ESTATES
Recorded April 5, 2006
as Document No. 2006R0023936

JORGENSEN & ASSOCIATES, INC.
120 PARK AVENUE
LAKE VILLA, ILLINOIS 60046
(847) 356-3371

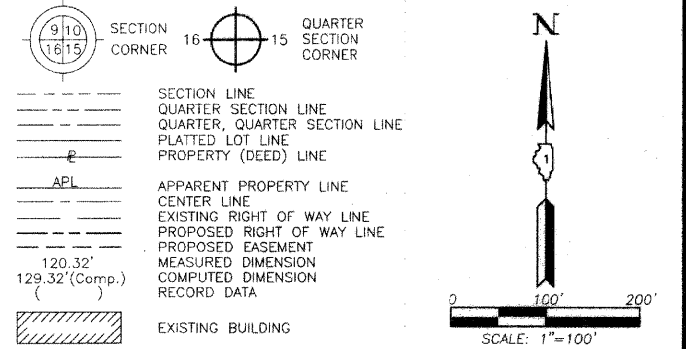
SHEET 1 IS A COVER SHEET AND IS NOT RECORDED.

PLAT OF HIGHWAYS
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION
T.R. 21 (HILL ROAD)
SECTION 08-00356-00-BR McHENRY COUNTY
PROJECT BROS-0111(051) JOB NO. R-91-003-09
STATION NONE TO STATION
SCALE: 1"=100' SHEET 5 OF 7

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



LEGEND



- IRON PIPE OR ROD FOUND
- ⊕ "MAG" NAIL SET
- + CUT CROSS FOUND OR SET
- 5/8" REBAR SET
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- PERMANENT SURVEY MARKER, I.D.O.T STD 2135 (TO BE SET BY OTHERS)
- RIGHT OF WAY STAKING PROPOSED TO BE SET.

STATE OF ILLINOIS }
 COUNTY OF LAKE } SS

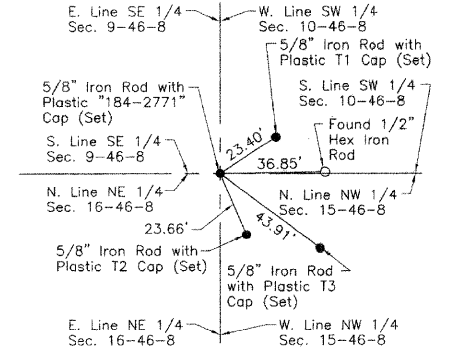
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 LICENSE EXPIRATION DATE: NOVEMBER 30, 2012
 THIS PROFESSIONAL SERVICE CONFORMS TO THE CURRENT ILLINOIS MINIMUM STANDARDS FOR A BOUNDARY SURVEY.

Note: Surface Coordinates are Shown



M-3
 "Monument Record"
 Northeast Corner of Section 16-46-8
 N.2,114,821.975-E.994,220.187
 Recorded May 5, 2011
 Document No. 2011R0019438

TOTAL HOLDINGS PARCEL 0003
 Note: Total Holdings of Parcel 0003 are based on that part lying in the East 1/2 of Section 16 Only. Riparian Boundary, Area Subject to Change.

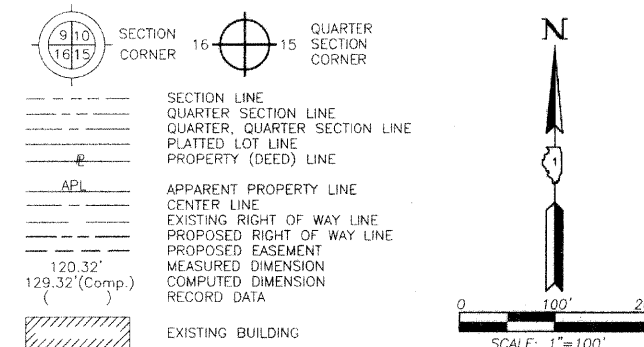
JORGENSEN & ASSOCIATES, INC.
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 LAKE VILLA, ILLINOIS 60046
 (847) 358-3371

SHEET 1 IS A COVER
 SHEET AND IS NOT RECORDED.

PLAT OF HIGHWAYS
 STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION
 T.R. 21 (HILL ROAD)
 SECTION 08-00356-00-BR McHENRY COUNTY
 PROJECT BROS-0111(051) JOB NO. R-91-003-09
 STATION NONE TO STATION
 SCALE: 1"=100' SHEET 6 OF 7

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

LEGEND



Bearings and Coordinates are referenced to the Illinois Coordinate System NAD 83(2007) East Zone.

- IRON PIPE OR ROD FOUND ⊕ "MAG" NAIL SET
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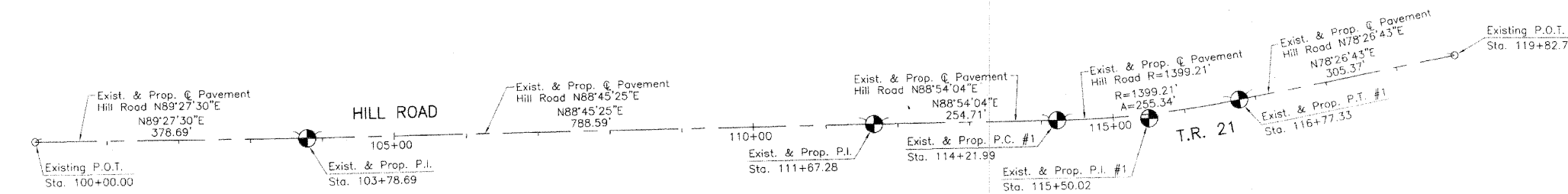
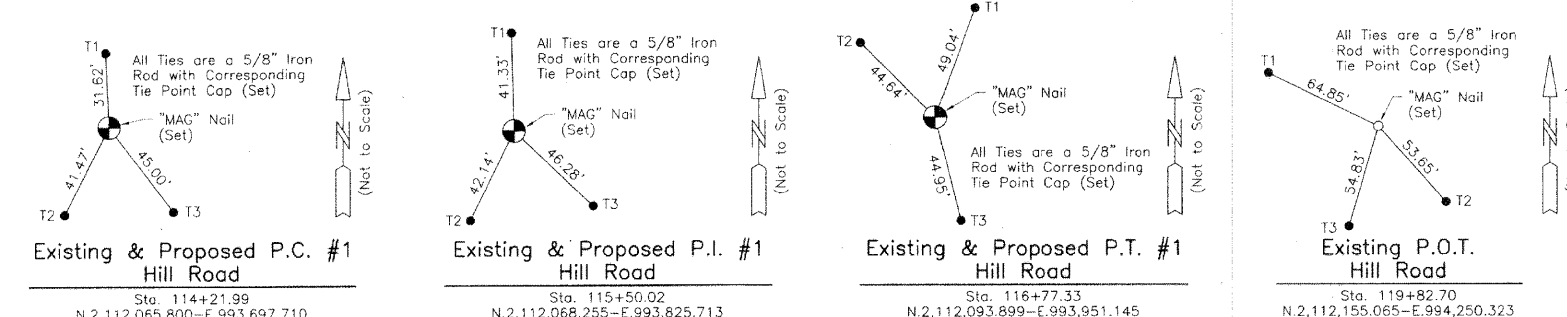
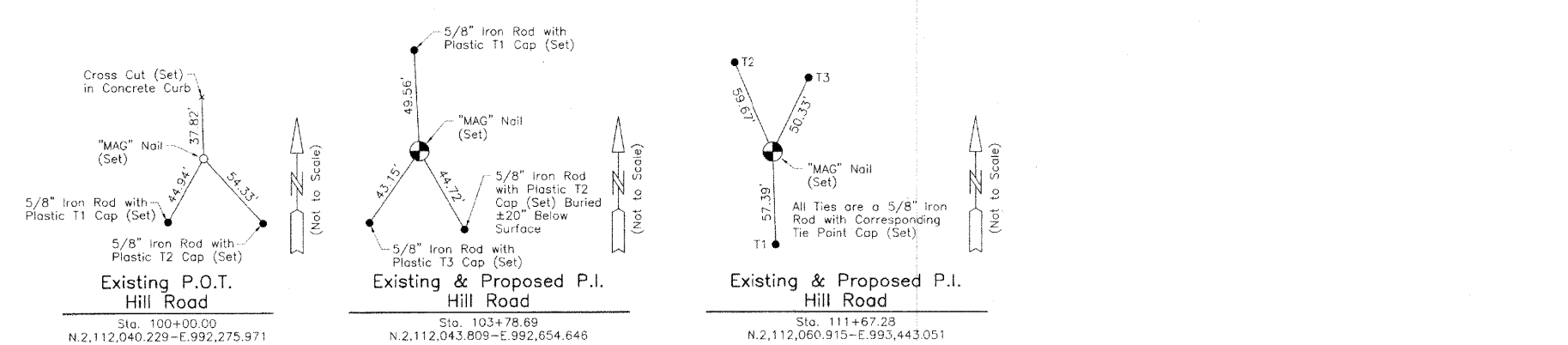
STATE OF ILLINOIS }
COUNTY OF LAKE }SS

THIS IS TO CERTIFY THAT WE, JORGENSEN & ASSOCIATES, INC., AN ILLINOIS PROFESSIONAL DESIGN FIRM LAND SURVEYING CORPORATION, NUMBER 184-2771, HAVE SURVEYED THE PLAT OF HIGHWAYS SHOWN HEREON BETWEEN SECTION 15, TOWNSHIP 46N., RANGE 8E. AND SECTION 16, TOWNSHIP 46N., RANGE 8E., 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 LAKE VILLA, ILLINOIS THIS 5th DAY OF May 2011 A.D.



Christian H. Jorgensen PRESIDENT
ILLINOIS PROFESSIONAL LAND SURVEYOR NO. 35-2797
LICENSE EXPIRATION DATE: NOVEMBER 30, 2012
THIS PROFESSIONAL SERVICE CONFORMS TO THE CURRENT ILLINOIS MINIMUM STANDARDS FOR A BOUNDARY SURVEY.
Note: Surface Coordinates are Shown



Existing & Proposed Q. Pavement Hill Road Curve #1

P.I. = Sta. 115+50.02
Δ = 10°27'21"
R = 1399.21'
T = 128.03'
L = 255.34'
E = 5.84'
P.C. = Sta. 114+21.99
P.T. = Sta. 116+77.33

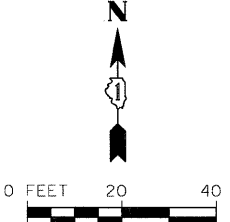
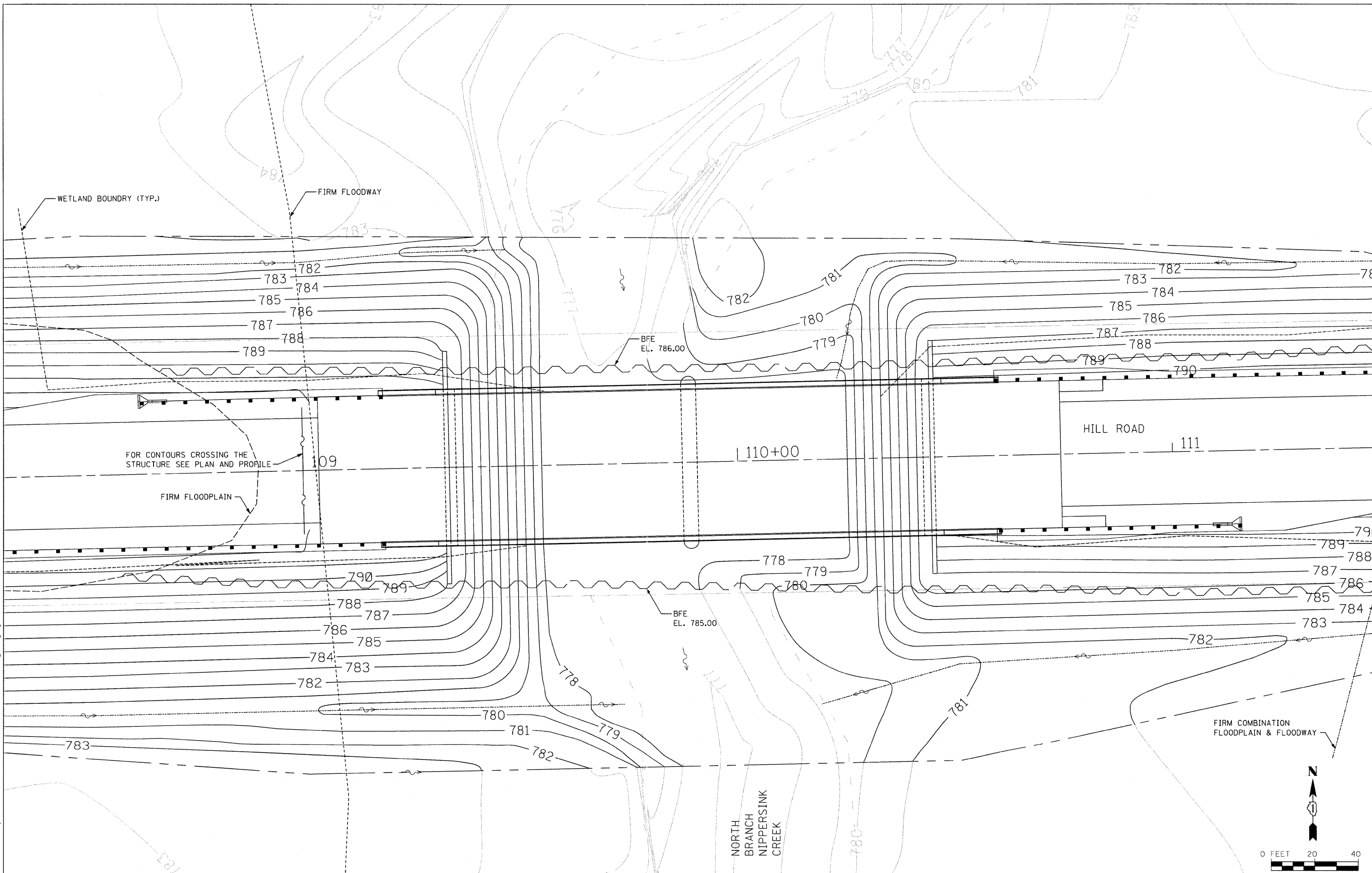
JORGENSEN & ASSOCIATES, INC.
120 PARK AVENUE
LAKE VILLA, ILLINOIS 60046
(847) 356-3371

SHEET 1 IS A COVER SHEET AND IS NOT RECORDED.

PLAT OF HIGHWAYS
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION
T.R. 21 (HILL ROAD)
SECTION 08-00356-00-BR McHENRY COUNTY
PROJECT BROS-0111(051) JOB NO. R-91-003-09
STATION 100+00.00 TO STATION 119+82.70
SCALE: 1"=100' SHEET 7 OF 7

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

FILE NAME = m:\j\6800-6895\6842\007\micro\cadd_sheets\01-63666-grading.dgn



SA
STRAND
ASSOCIATES*

1170 SOUTH HOUBOLT ROAD
JOLIET, ILLINOIS 60431
(815) 744-4200

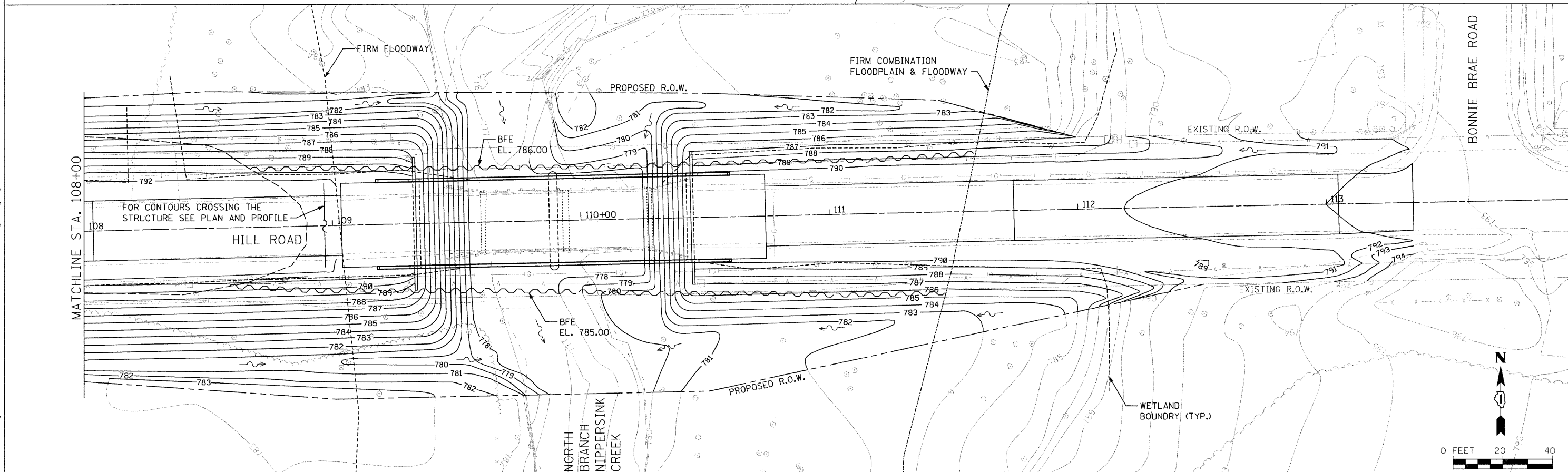
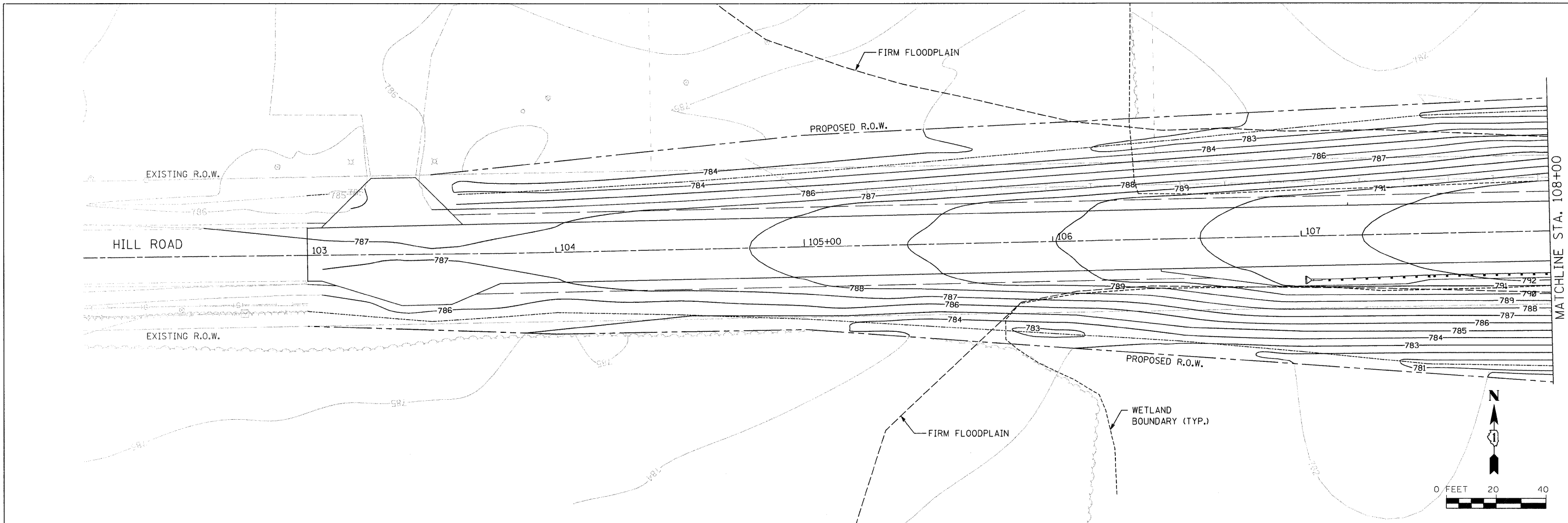
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DRAWN B/JF
CHECKED AJS
PLOT DATE = 1/3/2012

REVISED -
REVISED -
REVISED -
REVISED -

**MCHENRY COUNTY DIVISION OF TRANSPORTATION
HILL ROAD BRIDGE OVER
NORTH BRANCH NIPPERSINK CREEK**

GRADING PLAN
SCALE: AS SHOWN SHEET NO. OF SHEETS STA. TO STA.

TR	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
21	08-00356-00-BR	MCHENRY	67	28
CONTRACT NO. 63666				
FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT				



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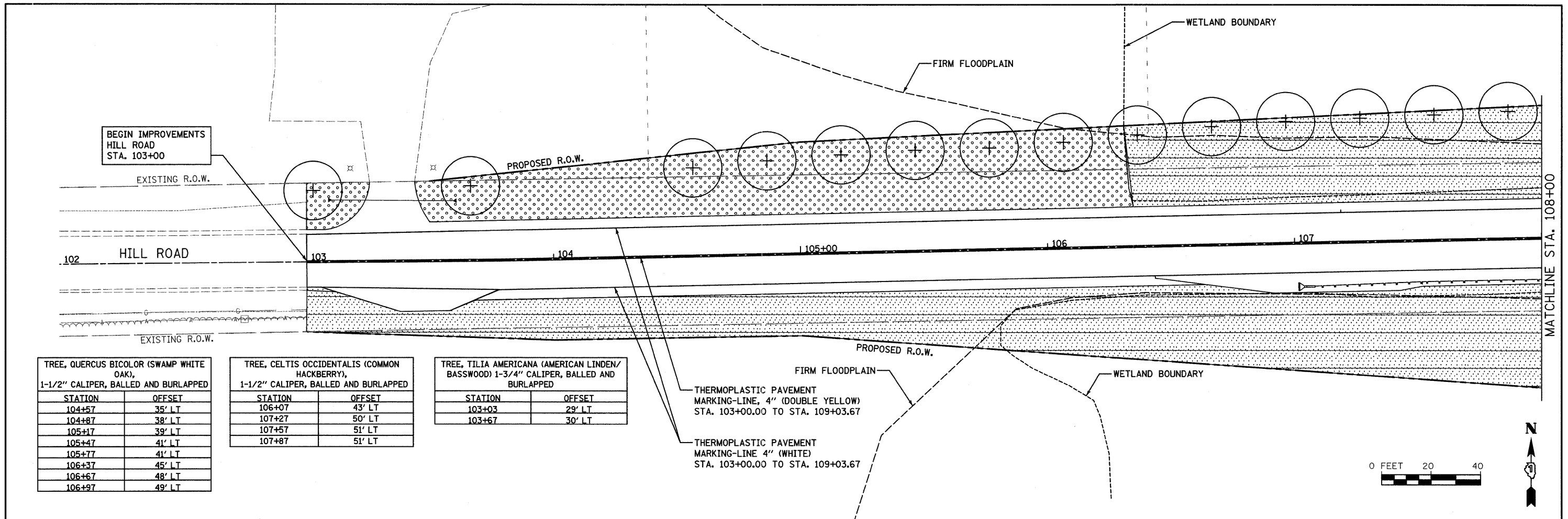
STRAND ASSOCIATES
 1170 SOUTH HOUBOLT ROAD
 JOLIET, ILLINOIS 60431
 (815) 744-4200

USER NAME = brianf	DESIGNED VLF	REVISED -
PLOT SCALE = 20.0000' / IN.	DRAWN VJF	REVISED -
PLOT DATE = 1/3/2012	CHECKED AJS	REVISED -
	DATE -	REVISED -

**MCHENRY COUNTY DIVISION OF TRANSPORTATION
 HILL ROAD BRIDGE OVER
 NORTH BRANCH NIPPERSINK CREEK**

GRADING PLAN				
SCALE: AS SHOWN	SHEET NO.	OF	SHEETS	STA. TO STA.

TR	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
21	08-00356-00-BR	MCHENRY	67	29
CONTRACT NO. 63666				
FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT				



TREE, QUERCUS BICOLOR (SWAMP WHITE OAK), 1-1/2" CALIPER, BALLED AND BURLAPPED

STATION	OFFSET
104+57	35' LT
104+87	38' LT
105+17	39' LT
105+47	41' LT
105+77	41' LT
106+37	45' LT
106+67	48' LT
106+97	49' LT

TREE, CELTIS OCCIDENTALIS (COMMON HACKBERRY), 1-1/2" CALIPER, BALLED AND BURLAPPED

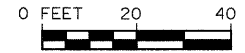
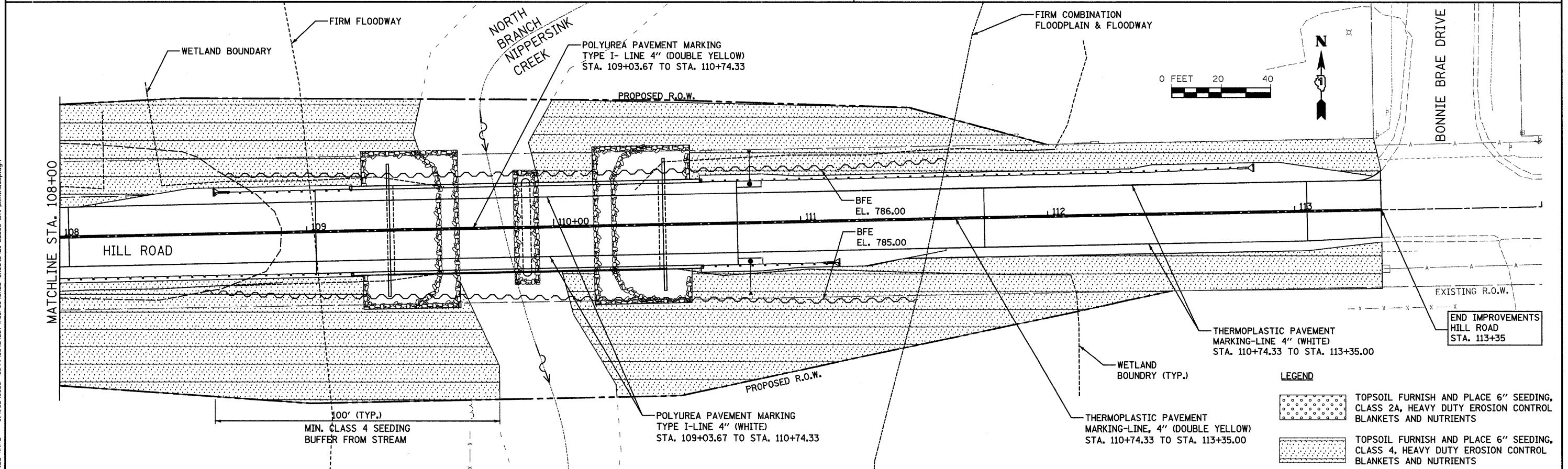
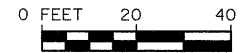
STATION	OFFSET
106+07	43' LT
107+27	50' LT
107+57	51' LT
107+87	51' LT

TREE, TILIA AMERICANA (AMERICAN LINDEN/BASSWOOD) 1-3/4" CALIPER, BALLED AND BURLAPPED

STATION	OFFSET
103+03	29' LT
103+67	30' LT

THERMOPLASTIC PAVEMENT MARKING-LINE, 4" (DOUBLE YELLOW) STA. 103+00.00 TO STA. 109+03.67

THERMOPLASTIC PAVEMENT MARKING-LINE 4" (WHITE) STA. 103+00.00 TO STA. 109+03.67



LEGEND

	TOPSOIL FURNISH AND PLACE 6" SEEDING, CLASS 2A, HEAVY DUTY EROSION CONTROL BLANKETS AND NUTRIENTS
	TOPSOIL FURNISH AND PLACE 6" SEEDING, CLASS 4, HEAVY DUTY EROSION CONTROL BLANKETS AND NUTRIENTS

FILE NAME = S:\JULY_08\08-6889\6889-087\Nippersink\087\Nippersink\087\087.dwg

 1170 SOUTH HOUBOLT ROAD JOLIET, ILLINOIS 60431 (815) 744-4200	USER NAME = dennissw	DESIGNED VLF	REVISED -	MCHENRY COUNTY DIVISION OF TRANSPORTATION HILL ROAD BRIDGE OVER NORTH BRANCH NIPPERSINK CREEK	PAVEMENT MARKING, SIGNING AND LANDSCAPING PLAN			TR	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	PLOT SCALE = 20,0000' / IN.	DRAWN BJF	REVISED -					21	08-00356-00-BR	MCHENRY	67	30
	PLOT DATE = 1/9/2012	CHECKED AJS	REVISED -					CONTRACT NO. 63666				
	DATE -	REVISED -	FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT									

Benchmark: Chiseled square on east curb at east end of curb on the east side of the entrance to Nippersink Public Library. Approximately 890 feet west of the Structure. Elev. 793.44

Existing Structure: S.N. 056-3045 built in 1958. The superstructure consists of two spans of eight 17"x36" prestressed precast deck beams with side mounted railing and an HMA overlay. The substructure consists of R.C. closed abutments on creosoted timber piles with timber lagging and a R.C. pile bend pier with metal shell piles. Structure measures 69'-3" bk to bk abutments and 24'-0" out to out. Existing structure is to be removed Traffic will be detoured.

Existing Name Plate to be salvaged. See Roadway General Notes.

GENERAL NOTES

The Illinois Department of Transportation is not the owner of record for this bridge. Those seeking historic, as-built, or other existing documents and plans must contact the owner of record to make arrangements for access to this information.

Reinforcement bars shall conform to the requirements of ASTM A 706 Gr 60. See Special Provisions.

Reinforcement bars designated (E) shall be epoxy coated.

Concrete Sealer shall be applied to the designated areas of the abutment.

Layout of slope protection system may be varied to suit ground conditions in the field as directed by the Engineer.

The embankment configuration shown shall be the minimum that must be placed and compacted prior to construction of the abutments.

The Contractor is advised that the existing structure contains members that are in deteriorated condition with reduced load carrying capacity. It is the Contractor's responsibility to account for the condition of the existing structure when developing construction procedures for removal.

See Erosion Control sheet for locations of Cofferdams.

INDEX OF SHEETS

- 1 General Plan and Elevation
- 2 General Data
- 3 Top of Approach Slab Elevations
- 4 Superstructure
- 5 Superstructure Details
- 6-7 Bridge Approach Slab Details
- 8-9 Wyoming 2-Tube Bridge Railing Details
- 10 27"x36" PPC Deck Beam
- 11 27"x36" PPC Deck Beam Details
- 12 Abutment Details
- 13 Pier Details
- 14 HP Pile Details
- 15 Metal Shell Pile Details
- 16-17 Soil Boring Log
- 18 Existing General Plan and Elevation

DESIGN STRESSES

- FIELD UNITS**
- f'c = 3,500 psi
 - fy = 60,000 psi (Reinforcement)
- PRECAST PRESTRESSED UNITS**
- f'c = 6,000 psi
 - f'ci = 5,000 psi
 - fpu = 270,000 psi (1/2" low lax. strands)
 - fpbt = 201,960 psi (1/2" low lax. strands)

DESIGN SPECIFICATIONS

2010 AASHTO LRFD Bridge Design Specifications with 2010 Interims

LOADING HL-93

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

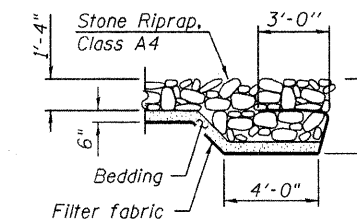
SEISMIC DATA

Seismic Performance Zone (SPZ) = 1
 Design Spectral Acceleration at 1.0 sec. (S_D) = 0.077
 Design Spectral Acceleration at 0.2 sec. (S_{0.2}) = 0.127
 Soil Site Class = D

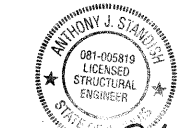
NIPPERSINK CREEK
 BUILT 20__ BY
 McHENRY COUNTY
 DIVISION OF TRANSPORTATION
 SEC 08-00356-00-BR
 TWP. RT. 21 STA. 109+89.00
 STRUCTURE NO. 056-3192
 LOADING HL-93

NAME PLATE

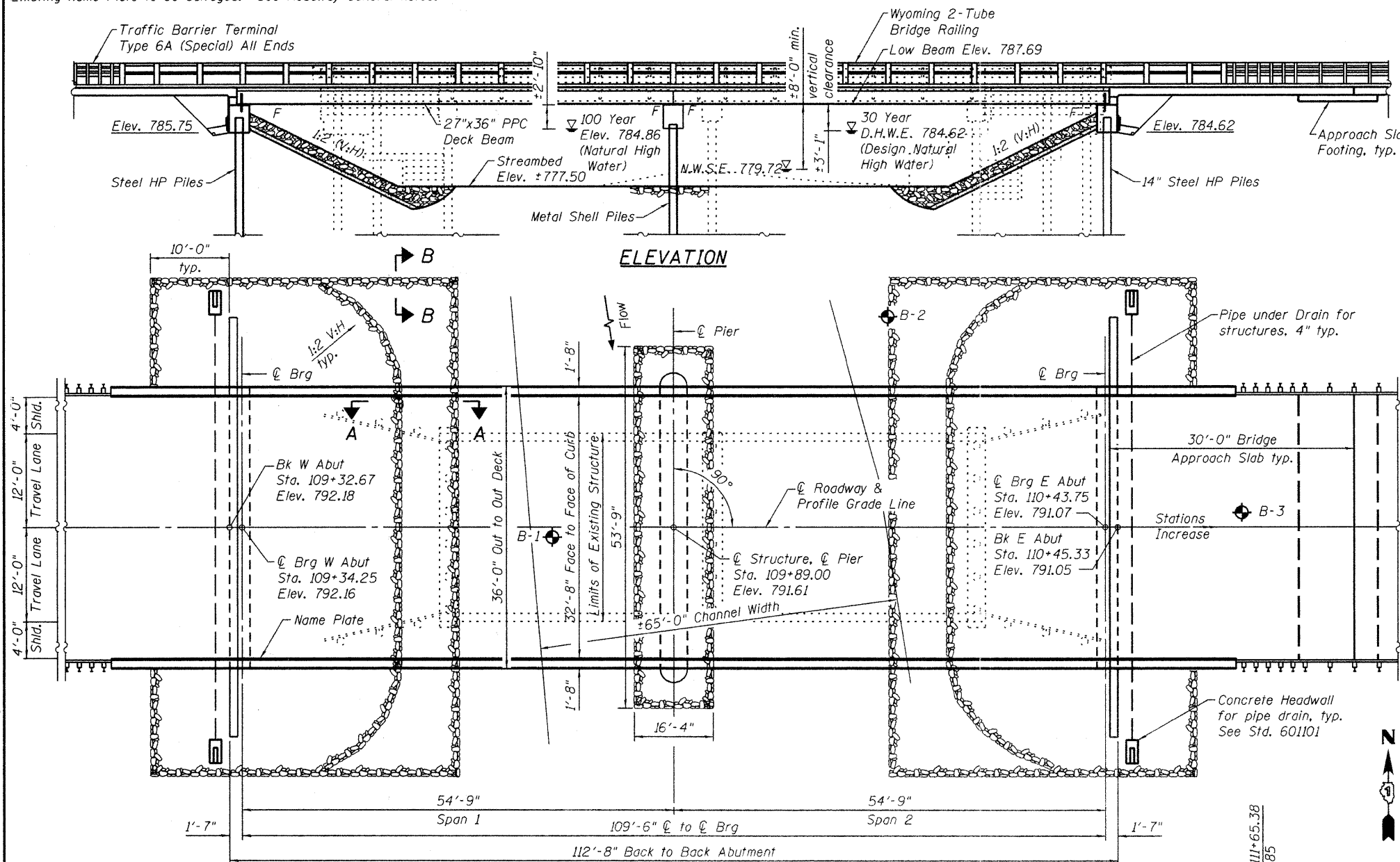
See Std. 515001



SECTION B-B



Anthony J. Standish EXP 11/2014



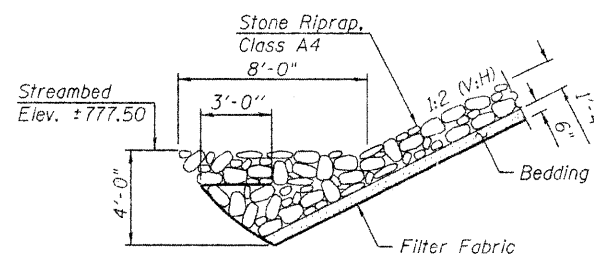
DESIGN SCOUR ELEVATION TABLE

Design Scour Elevation (ft.)	West Abut.	Pier	East Abut.
	785.85	762.42	784.72

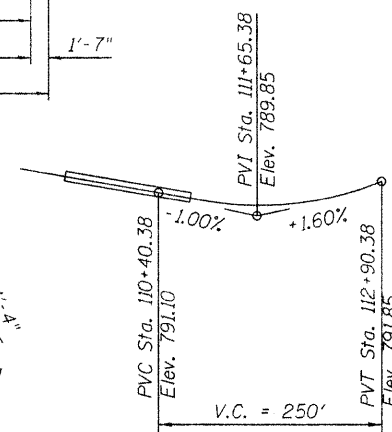
WATERWAY INFORMATION

Drainage Area = 68.7 square miles Low Grade Elev. 786.70 @ Sta. 104+50

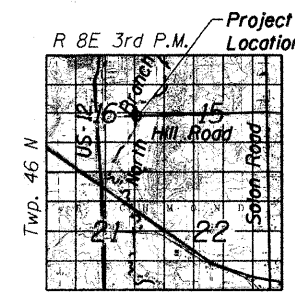
Flood	Freq. Yr.	Freq. Ft./s.	Opening Sq. Ft.		Head - Ft.		Headwater El.		
			Exist.	Prop.	H.W.E. Exist.	Prop.	Exist.	Prop.	
Design	10	1610	333.06	549.26	784.02	0.53	0.23	784.55	784.25
Base	30	2294	372.06	626.34	784.62	0.91	0.44	785.53	785.06
Overtop Existing	100	2735	387.66	670.20	784.86	1.24	0.65	786.10	785.51
Overtop Proposed	~101	2780	389.61	-	784.89	1.27	-	786.16	-
Max. Calc.	~405	3920	-	-	790.77	-	-	786.71	-
	500	4521	445.51	827.94	785.75	2.28	1.32	788.03	787.07



SECTION A-A



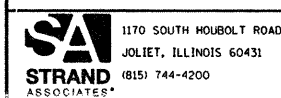
PROFILE GRADE
(T.R. 21 along C of Roadway)



LOCATION SKETCH

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 LRFD Bridge Design Specifications.

GENERAL PLAN
T.R. 21 (HILL ROAD)
OVER N. BRANCH NIPPERSINK CREEK
McHENRY COUNTY
STA. 109+92.00
S.N. 056-3192



USER NAME = brtanf	DESIGNED RRD	REVISIONS
PLOT SCALE =	CHECKED AJS	REVISIONS
PLOT DATE = 1/23/2012	DRAWN BJF	REVISIONS
	CHECKED RRD	REVISIONS

DESIGNED RRD	REVISIONS
CHECKED AJS	REVISIONS
DRAWN BJF	REVISIONS
CHECKED RRD	REVISIONS

McHENRY COUNTY DIVISION OF TRANSPORTATION
HILL ROAD BRIDGE OVER
NORTH BRANCH NIPPERSINK CREEK

GENERAL PLAN AND ELEVATION
STRUCTURE NO. 056-3192
 SHEET NO. 1 OF 18 SHEETS

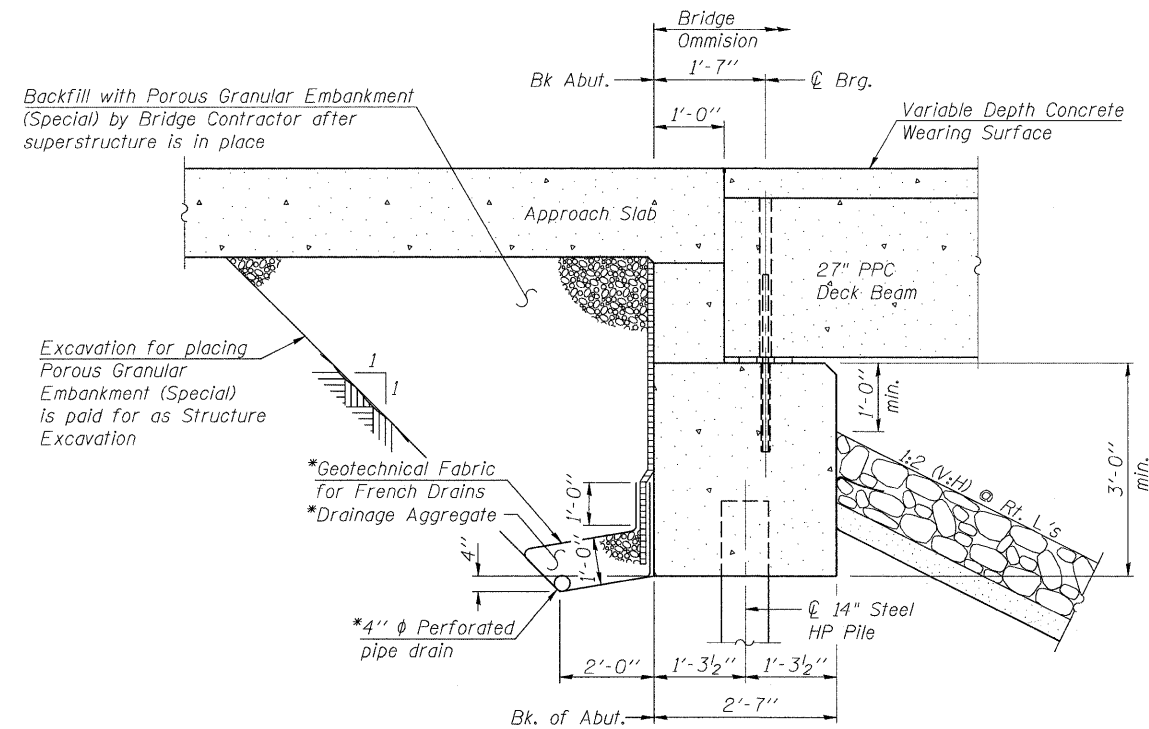
TR	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
21	08-00356-00-BR	McHENRY	67	31
			CONTRACT NO. 63666	

ILLINOIS FED. AID PROJECT

TOTAL BILL OF MATERIAL

ITEM	UNIT	SUPER	SUB	TOTAL
Stone Riprap, Class A4	Sq Yd		500	500
Filter Fabric	Sq Yd		500	500
Removal Of Existing Structures	Each	1		1
Structure Excavation	Cu Yd		99	99
Cofferdam Excavation	Cu Yd		43	43
Cofferdam (Type 1) (Location - 1)	Each		1	1
Cofferdam (Type 1) (Location - 2)	Each		1	1
Concrete Structures	Cu Yd		72	72
Concrete Superstructure	Cu Yd	107		107
Bridge Deck Grooving	Sq Yd	583		583
Concrete Encasement	Cu Yd		21	21
Protective Coat	Sq Yd	683		683
Precast Prestressed Concrete Deck Beams (27" Depth)	Sq Ft	3,981		3,981
Reinforcement Bars, Epoxy Coated	Pound	31,160	11,100	42,260
Furnishing Metal Shell Piles 14" X 0.312"	Foot		196	196
Furnishing Steel Piles Hp14X73	Foot		425	425
Driving Piles	Foot		621	621
Test Pile Metal Shells	Each		1	1
Test Pile Steel Hp14X73	Each		3	3
Pile Shoes	Each		20	20
Name Plates	Each	1		1
Concrete Sealer	Sq Ft		845	845
Geocomposite Wall Drain	Sq Yd		54	54
Porous Granular Embankment, Special	Cu Yd		96	96
Concrete Wearing Surface, (Variable Depth)	Cu Yd	88		88
Steel Railing (Special)	Foot	282		282
Pipe Underdrains For Structures 4"	Foot		130	130

Note:
 Cofferdam (Type 1) (Location-1) to be used for the removal and replacement of the pier and east abutment. Cofferdam (Type 1) (Location-2) to be used for the removal and replacement the west abutment. All earthwork, including placement of riprap, shall be done in a dry environment behind the cofferdam.
 Two test piles are required for the west abutment. See sheet 12 of 18 for details.



*Included in the cost of Pipe Underdrain for structures

Note:
 All drainage system components shall extend to 2'-0" from the end of each wingwall except an outlet pipe shall extend until intersecting with the side slopes. The pipes shall drain into concrete headwalls. (See Article 601.05 of the Standard Specifications and Highway Standard 601101).

SECTION THRU ABUTMENT

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1170 SOUTH HOUBOLT ROAD JOLIET, ILLINOIS 60431 (815) 744-4200	USER NAME = brianf DESIGNED RRD CHECKED AJS DRAWN BJF CHECKED RRD	REVISED - REVISED - REVISED - REVISED -	MCHENRY COUNTY DIVISION OF TRANSPORTATION HILL ROAD BRIDGE OVER NORTH BRANCH NIPPERSINK CREEK	GENERAL DATA STRUCTURE NO. 056-3192 SHEET NO. 2 OF 18 SHEETS		TR 21 SECTION 08-00356-00-BR COUNTY MCHENRY TOTAL SHEETS 67 SHEET NO. 32 CONTRACT NO. 63666	ILLINOIS FED. AID PROJECT
	PLOT SCALE = PLOT DATE = 1/3/2012						

NORTH EDGE OF SHOULDER

Location	Station	Offset	Theoretical Grade Elevations
W. End West Appr. Pav't.	109+03.67	16.33	792.11
A1	109+13.67	16.33	792.03
A2	109+23.67	16.33	791.93
E. End West Appr. Pav't.	109+33.67	16.33	791.83
W. End East Appr. Pav't.	110+44.33	16.33	790.72
A3	110+54.33	16.33	790.63
A4	110+64.33	16.33	790.55
E. End East Appr. Pav't.	110+74.33	16.33	790.48

NORTH EDGE OF PAVEMENT

Location	Station	Offset	Theoretical Grade Elevations
W. End West Appr. Pav't.	109+03.67	12.00	792.20
A1	109+13.67	12.00	792.12
A2	109+23.67	12.00	792.02
E. End West Appr. Pav't.	109+33.67	12.00	791.92
W. End East Appr. Pav't.	110+44.33	12.00	790.81
A3	110+54.33	12.00	790.72
A4	110+64.33	12.00	790.64
E. End East Appr. Pav't.	110+74.33	12.00	790.57

PROFILE GRADE LINE/CENTERLINE OF ROADWAY

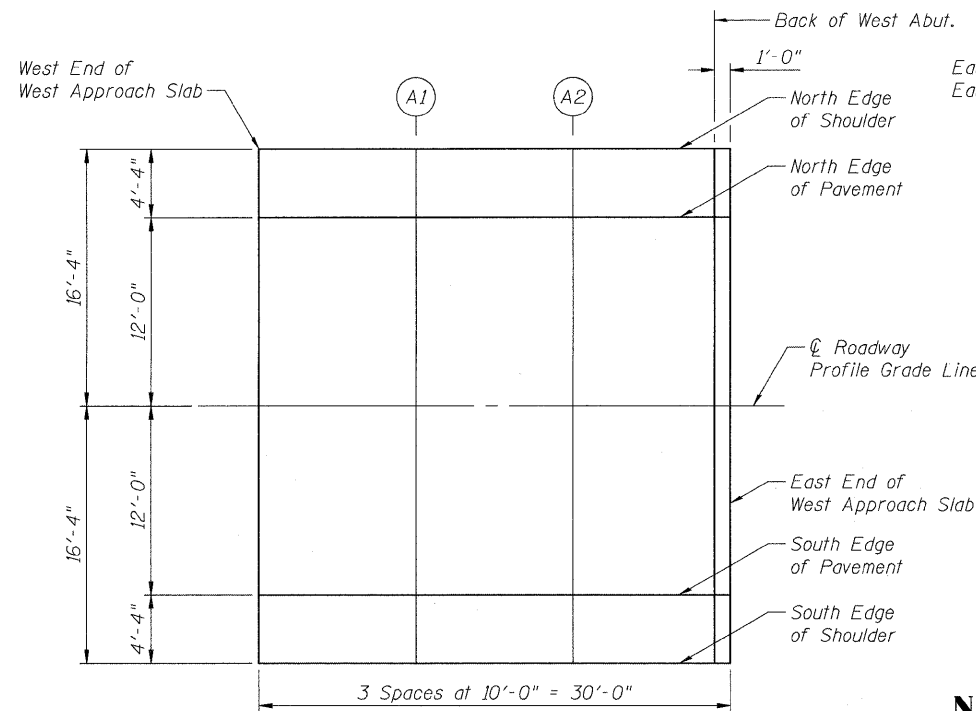
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A1	109+13.67	0.00	792.37
A2	109+23.67	0.00	792.27
E. End West Appr. Pav't.	109+33.67	0.00	792.17
W. End East Appr. Pav't.	110+44.33	0.00	791.06
A3	110+54.33	0.00	790.97
A4	110+64.33	0.00	790.89
E. End East Appr. Pav't.	110+74.33	0.00	790.82

SOUTH EDGE OF PAVEMENT

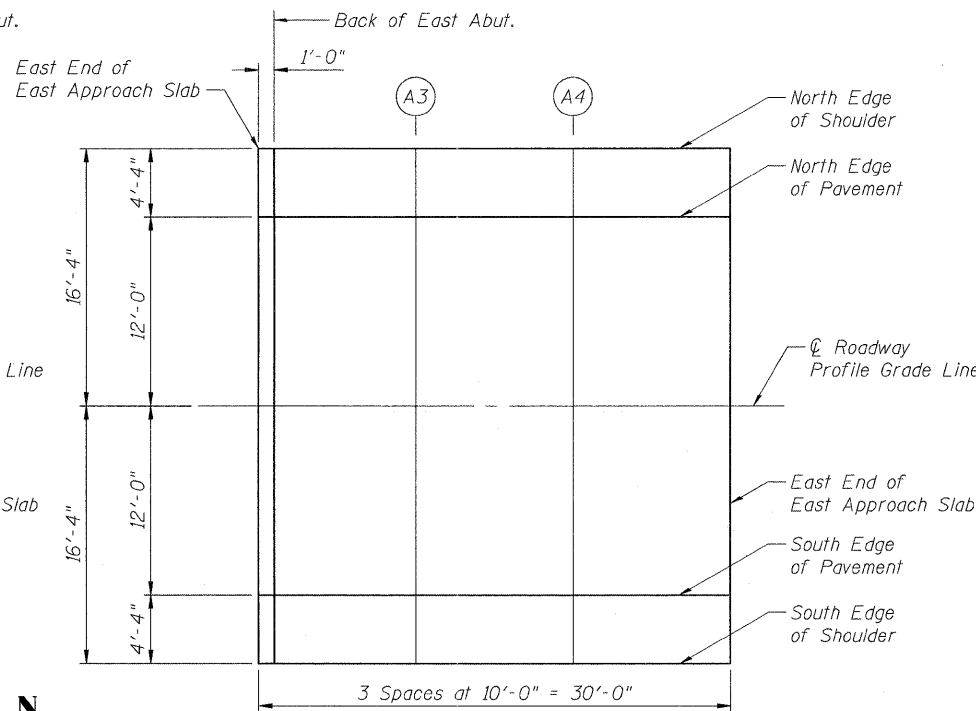
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A1	109+13.67	-12.00	792.12
A2	109+23.67	-12.00	792.02
E. End West Appr. Pav't.	109+33.67	-12.00	791.92
W. End East Appr. Pav't.	110+44.33	-12.00	790.81
A3	110+54.33	-12.00	790.72
A4	110+64.33	-12.00	790.64
E. End East Appr. Pav't.	110+74.33	-12.00	790.57

SOUTH EDGE OF SHOULDER

Location	Station	Offset	Theoretical Grade Elevations
W. End West Appr. Pav't.	109+03.67	-16.33	792.11
A1	109+13.67	-16.33	792.03
A2	109+23.67	-16.33	791.93
E. End West Appr. Pav't.	109+33.67	-16.33	791.83
W. End East Appr. Pav't.	110+44.33	-16.33	790.72
A3	110+54.33	-16.33	790.63
A4	110+64.33	-16.33	790.55
E. End East Appr. Pav't.	110+74.33	-16.33	790.48

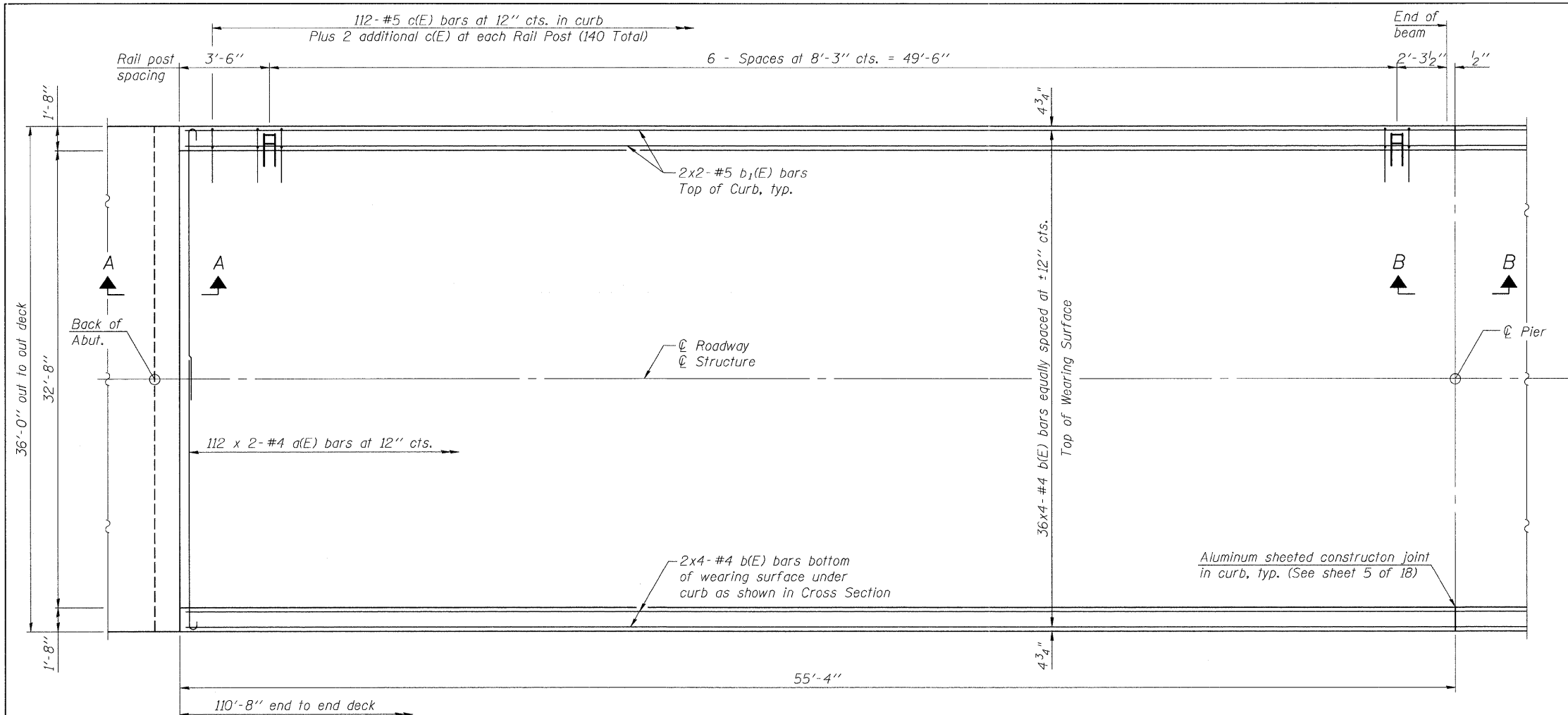


PLAN
West Approach

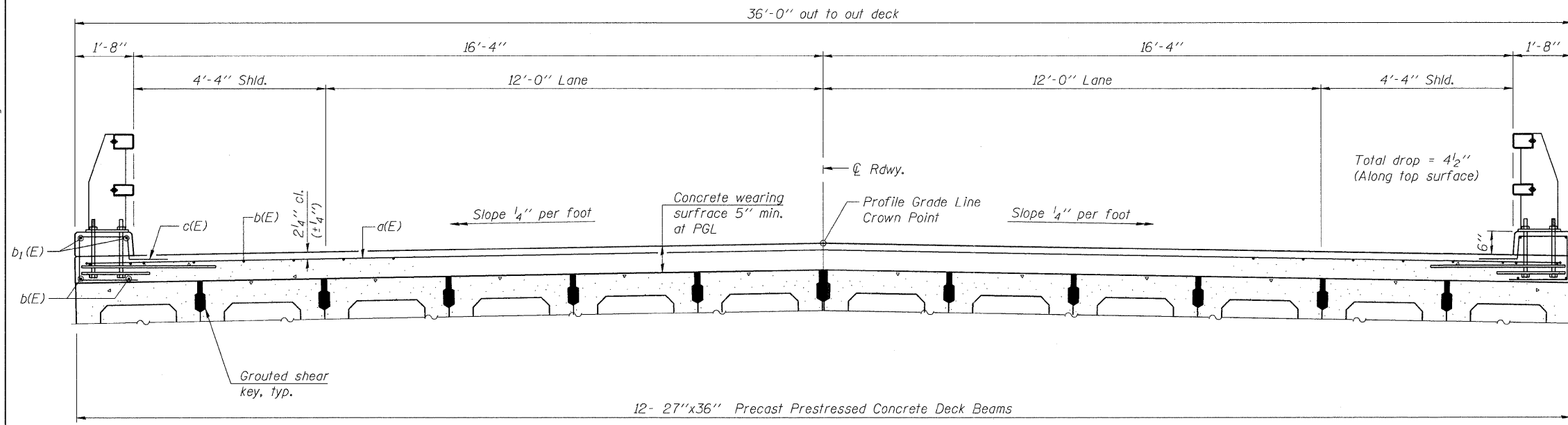


PLAN
East Approach

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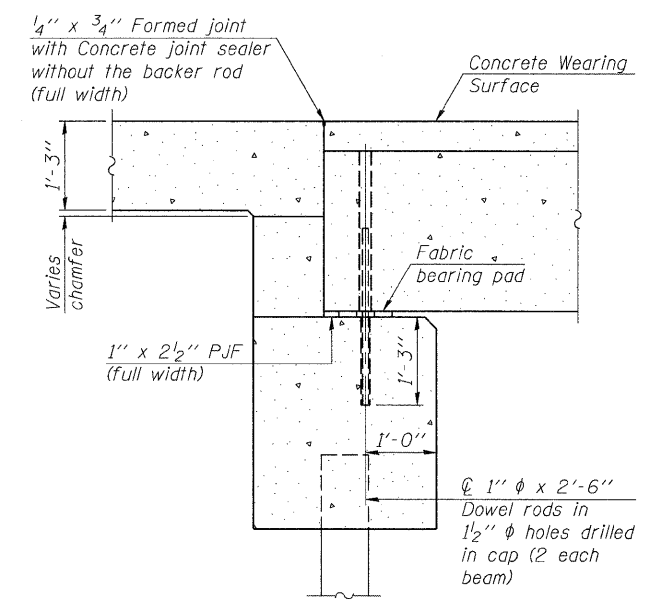


PLAN



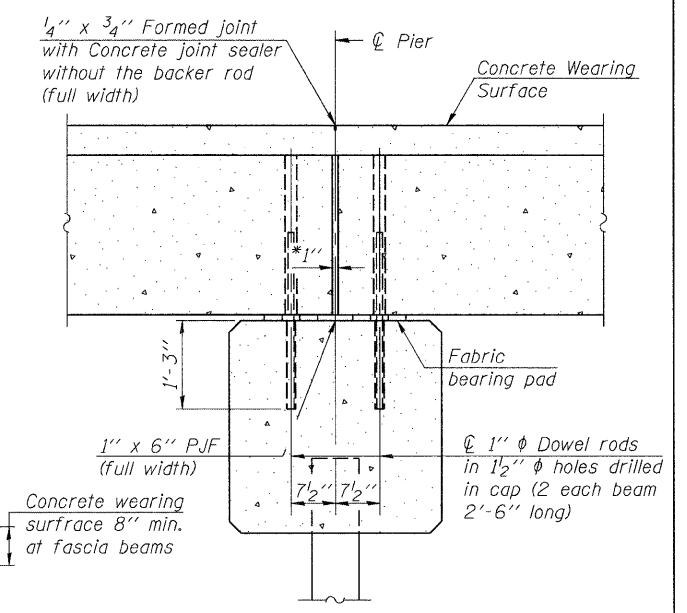
CROSS SECTION
(Looking East)

Notes:
See sheet 5 of 18 for Superstructure Details and Bill of Material.
Bars indicated thus 20 x 2-#4 etc. indicates 20 lines of bars with 2 lengths per line.



SECTION A-A

Notes:
All concrete wearing surfaces shall be placed prior to casting a backwall and/or approach slab.
See sheet 11 of 18 for fabric bearing pad details.



SECTION B-B

*1\"/>

MINIMUM BAR LAP
#4 bar = 2'-7"
#5 bar = 3'-3"

FILE NAME = s:\j\16880-6889\6812\007\macro\cead sheets\structure\085-3192-53566-004-SUPER.dgn

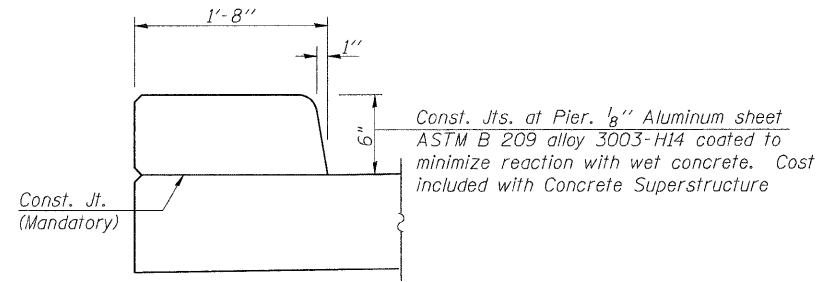


USER NAME = brianf	DESIGNED RRD	REVISED -
PLOT SCALE =	CHECKED AJS	REVISED -
PLOT DATE = 1/3/2012	DRAWN BJF	REVISED -
	CHECKED RRD	REVISED -

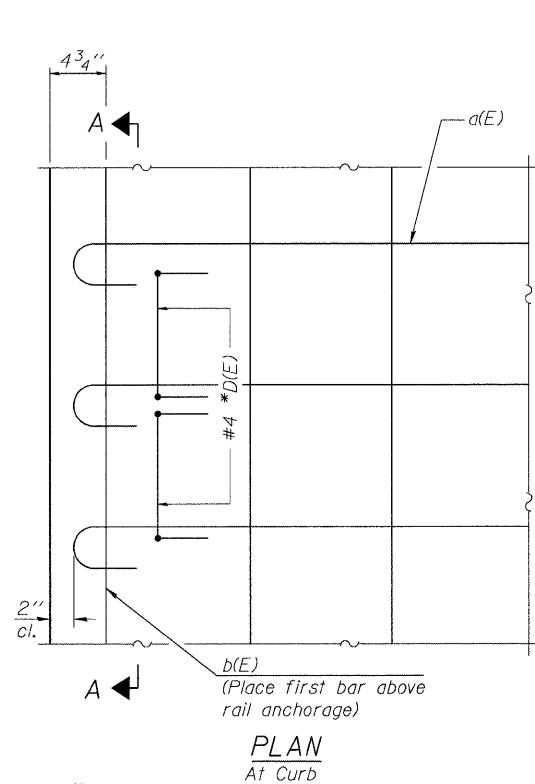
MCHENRY COUNTY DIVISION OF TRANSPORTATION
HILL ROAD BRIDGE OVER
NORTH BRANCH NIPPERSINK CREEK

SUPERSTRUCTURE
STRUCTURE NO. 056-3192
SHEET NO. 4 OF 18 SHEETS

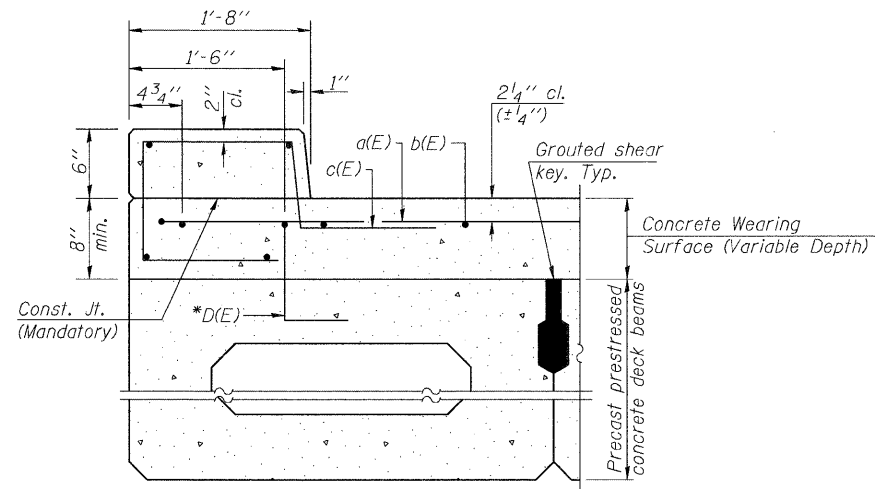
TR	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
21	08-00356-00-BR	MCHENRY	67	34
CONTRACT NO. 63666				
ILLINOIS FED. AID PROJECT				



CURB JOINT DETAILS

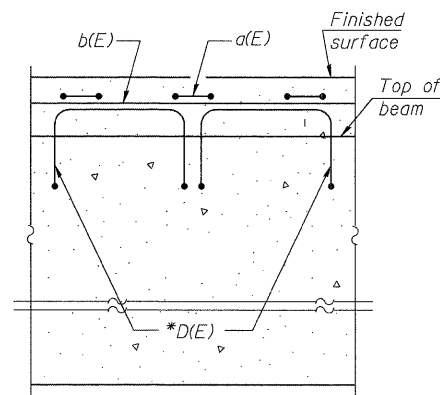


Notes:
Formwork necessary for the wearing surface
may be secured utilizing the bottom rail
anchorage inserts and/or additional inserts cast
into the beam.

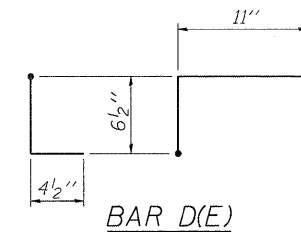


SECTION THRU FASCIA BEAM

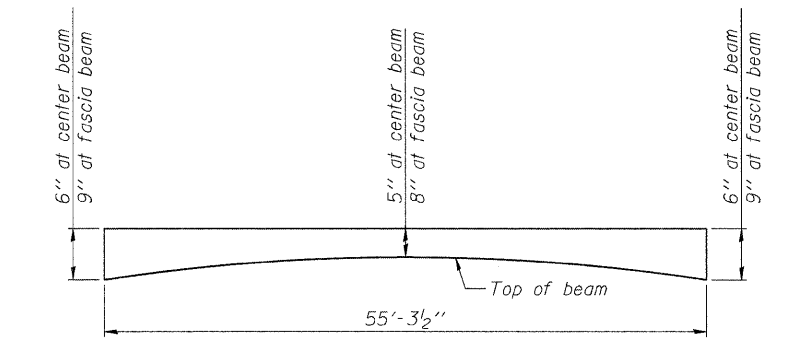
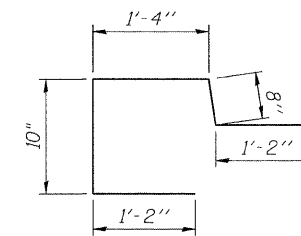
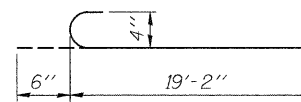
Rail Post anchorage not shown for clarity



SECTION A-A



* Place 2-#4 D(E) bars in beam at
each post location as shown. D(E)
bar included in cost of beam.



ANTICIPATED CONCRETE WEARING SURFACE PROFILE
(For information only)

Estimated Final Beam Camber = 1"

SUPERSTRUCTURE
BILL OF MATERIAL

Bar	No.	Size	Length	Shape
a(E)	224	#4	19'-8"	C
b(E)	160	#4	29'-9"	—
b ₁ (E)	16	#5	29'-4"	—
c(E)	280	#5	5'-2"	⊔
Reinforcement Bars, Epoxy Coated			Pound	8,120
Concrete Wearing Surface, (Variable Depth)			Cu. Yd.	83
Concrete Superstructure			Cu. Yd.	7
Bridge Deck Grooving			Sq. Yd.	378
Protective Coat			Sq. Yd.	455

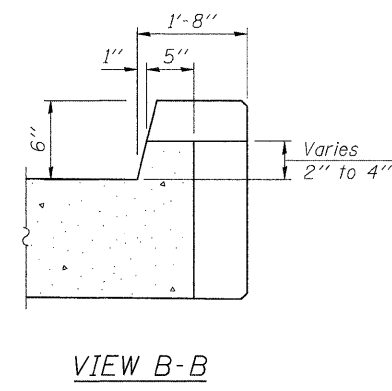
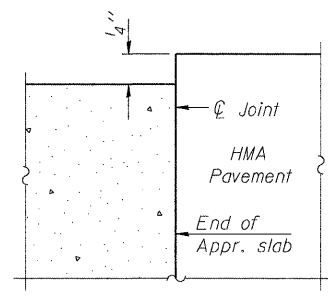
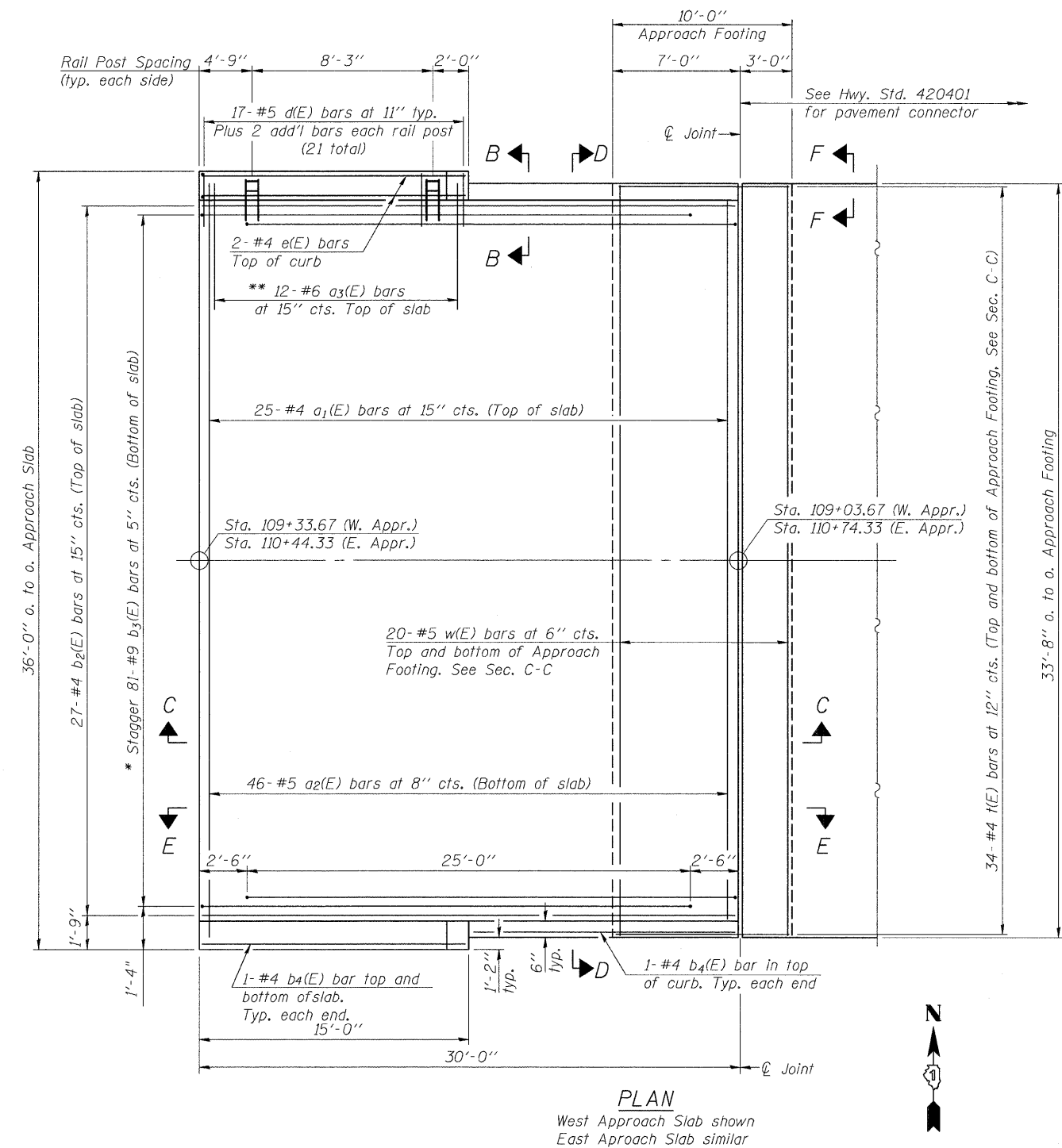
Bars indicated thus 20 x 2 -#4 etc. indicates
20 line of bars with 2 lengths per line.

MINIMUM BAR LAP

#4 bar = 2'-7"
#5 bar = 3'-3"

FILE NAME = s:\pa\6800-6899\6842\07\micro\cadd sheets\structure\056-3192-63666-005-SUPDET.dgn

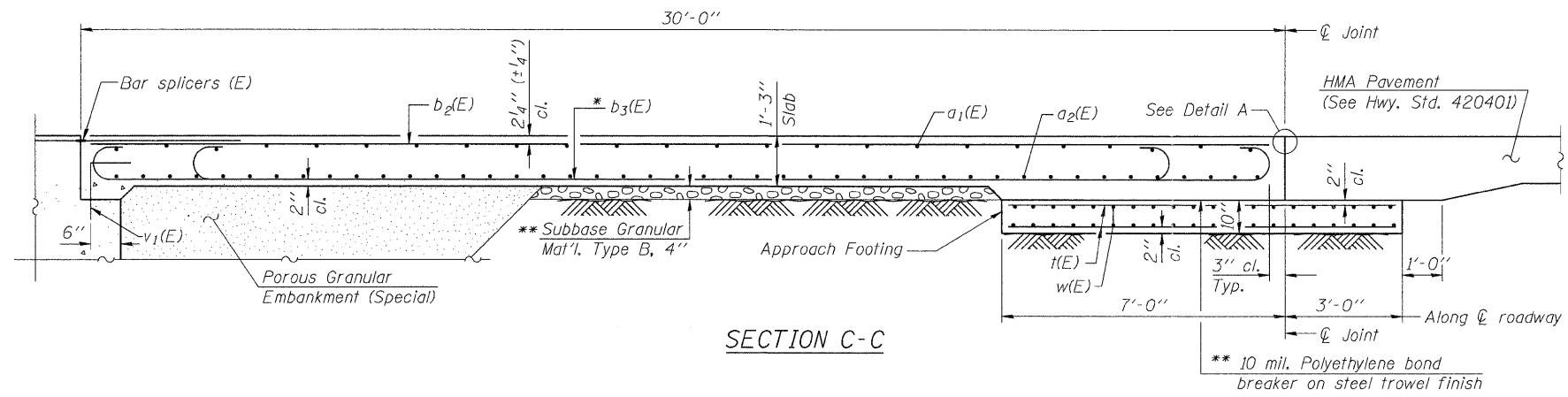
Notes:
 See sheet 7 of 18 for Sections C-C & D-D and View E-E.
 a₁(E) and a₁(E) bar spacings measured along ϕ Rdwy.
 See sheet 5 of 18 for Curb Details.
 See sheets 8 and 9 of 18 for Railing Details.
 See sheet 7 of 18 for location of Detail A.



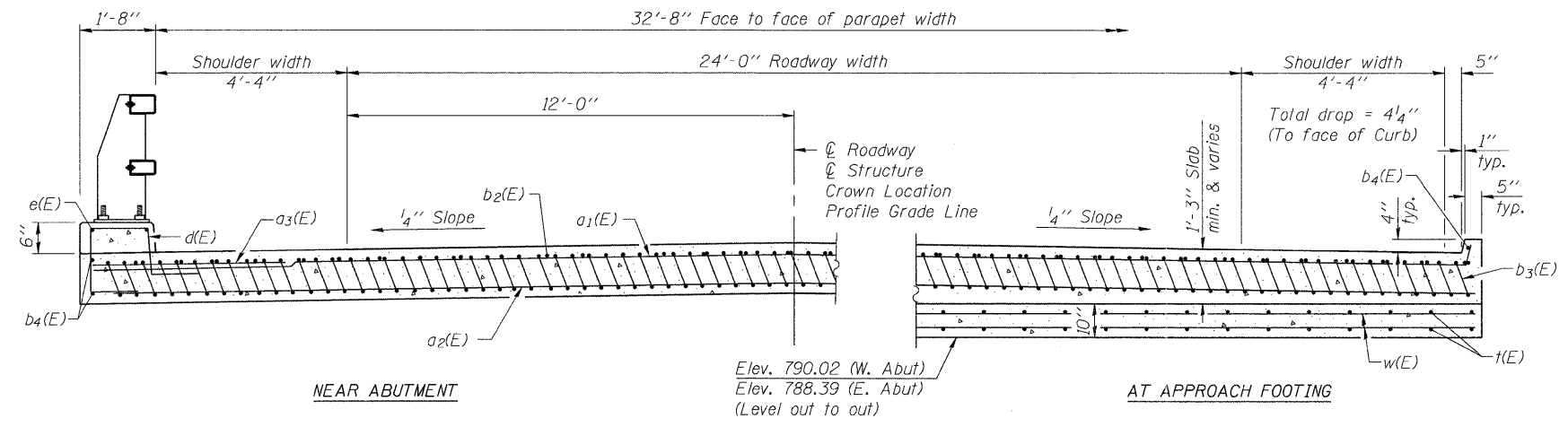
* Tilt #9 b₃(E) bars as required to maintain clearance.
 ** Space between a₁(E) bars, typ. ea. curb.

FILE NAME = w:\p1\6800-6859\6842\007\micron\cadd\sheet\structure\056-3192-63666-006-BAP.dgn

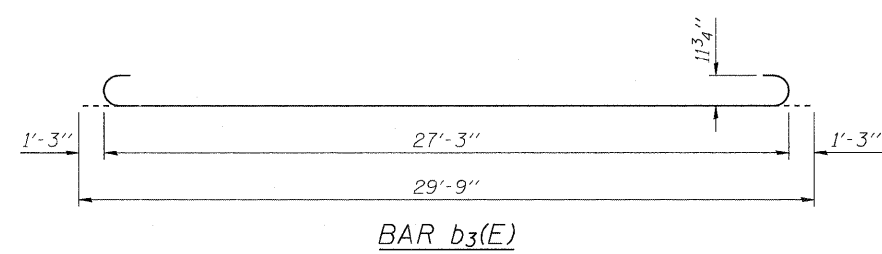
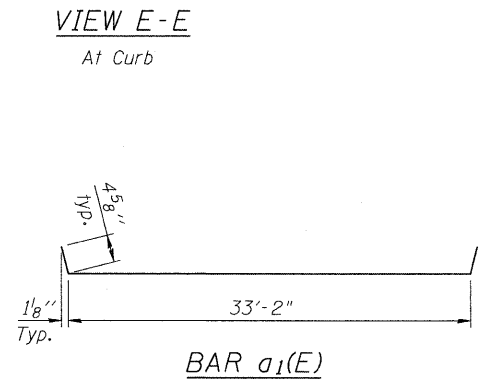
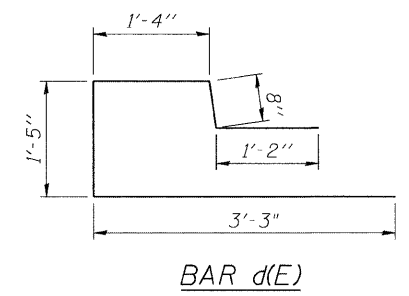
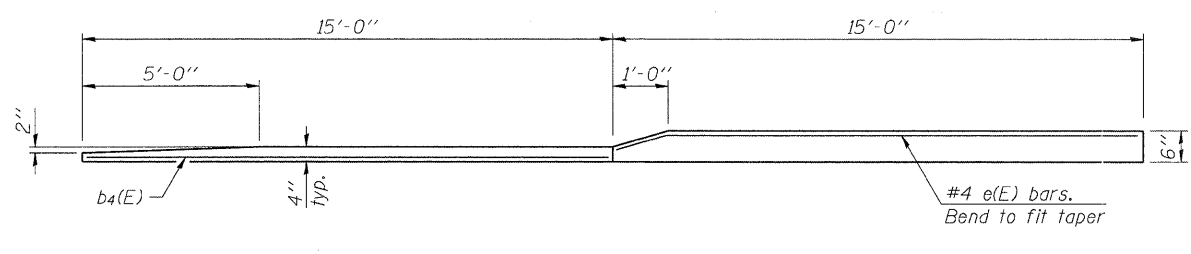
1170 SOUTH HOUBOLT ROAD JOLIET, ILLINOIS 60431 (815) 744-4200	USER NAME = brianf	DESIGNED RRD	REVISED -	MCHENRY COUNTY DIVISION OF TRANSPORTATION HILL ROAD BRIDGE OVER NORTH BRANCH NIPPERSINK CREEK	BRIDGE APPROACH SLAB DETAILS (1 OF 2) STRUCTURE NO. 056-3192	TR	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	PLOT SCALE =	CHECKED AJS	REVISED -			21	08-00356-00-BR	MCHENRY	67	36
	PLOT DATE = 1/3/2012	DRAWN BJF	REVISED -			CONTRACT NO. 63666		ILLINOIS FED. AID PROJECT		
		CHECKED RRD	REVISED -			SHEET NO. 6 OF 18 SHEETS				



Notes:
 See sheet 6 of 18 for Detail A and View B-B.
 Approach slab and parapet concrete shall be paid for as Concrete Superstructure.
 Approach footing concrete shall be paid for as Concrete Structures.
 Reinforcement shall be paid for as Reinforcement Bars, Epoxy Coated.
 For v₁(E) bar details, see sheet 12 of 18.
 The approach footing maximum applied service bearing pressure (Q_{max}) = 2.0 ksf.
 Cost of excavation for approach footing included with Concrete Structures.
 For Porous Granular Embankment (Special) and drainage treatment details, see sheet 2 of 18.
 For additional parapet details, see sheet 8 and 9 of 18.



* Tilt #9 b₁(E) bars as required to maintain clearance.
 ** Cost included with Concrete Superstructure.

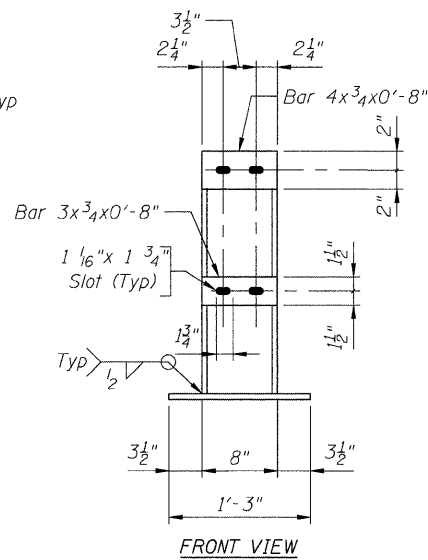
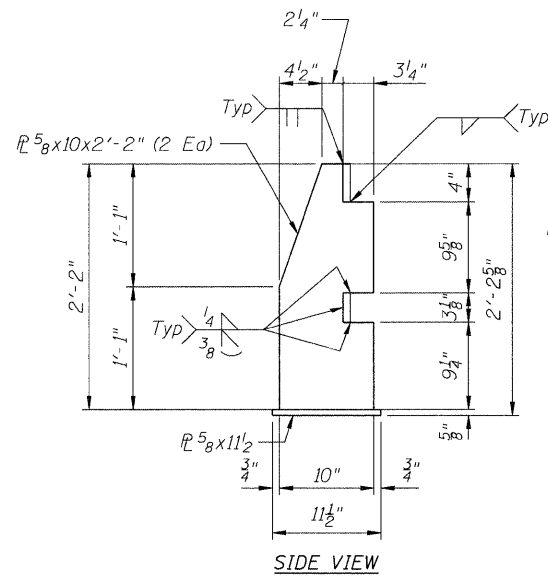


**TWO APPROACHES
 BILL OF MATERIAL**

Bar	No.	Size	Length	Shape
a ₁ (E)	50	#4	34'-0"	—
a ₂ (E)	92	#5	33'-4"	—
a ₃ (E)	48	#6	6'-6"	—
b ₂ (E)	54	#4	29'-8"	—
b ₃ (E)	162	#9	29'-9"	—
b ₄ (E)	12	#4	14'-8"	—
d(E)	84	#5	7'-10"	└
e(E)	8	#4	14'-8"	—
t(E)	136	#4	9'-8"	—
w(E)	80	#5	33'-4"	—
Concrete Superstructure		Cu. Yd.	100	
Concrete Structures		Cu. Yd.	21	
Reinforcement Bars, Epoxy Coated		Pound	23,040	***
Reinforcement Bars, Epoxy Coated		Pound	3,660	****
Bridge Deck Grooving		Sq. Yd.	205	
Protective Coat		Sq. Yd.	228	

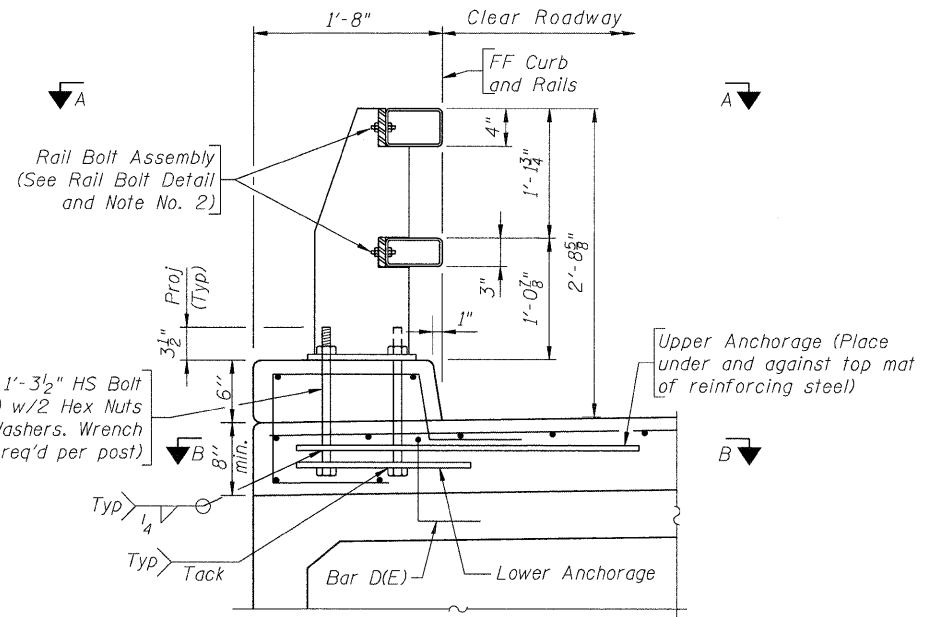
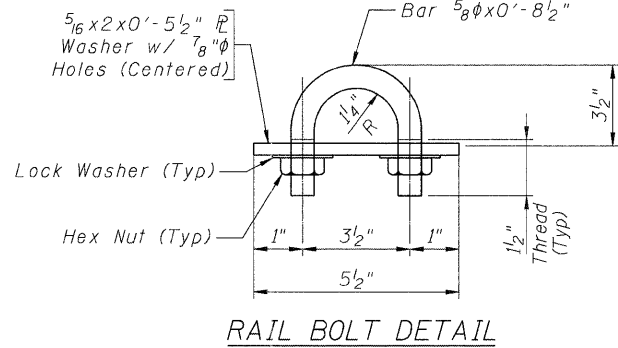
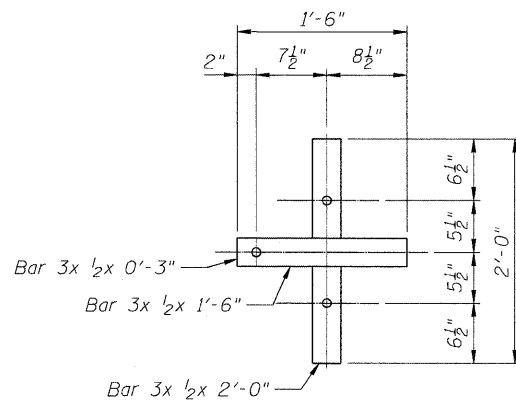
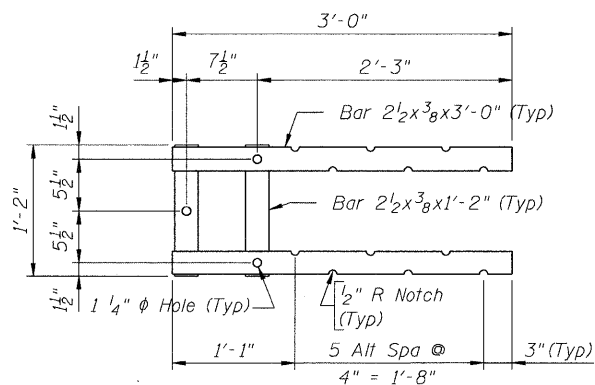
*** Included in Superstructure
 **** Included in Substructure

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POST DETAILS

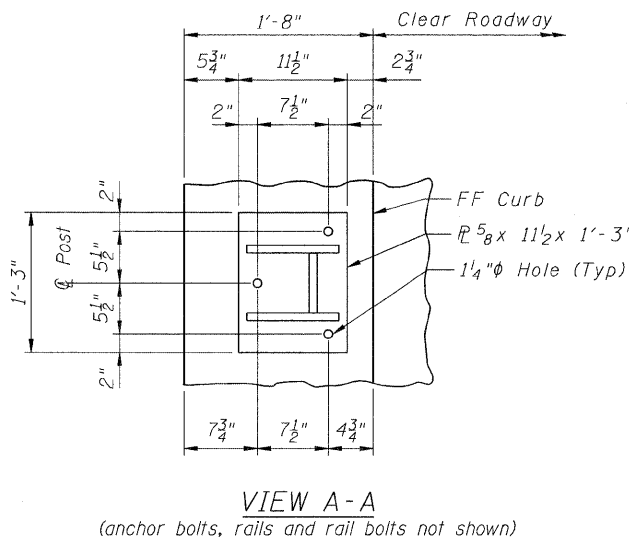
(See View A-A for anchor bolt hole spacing)



- Note:
- 1) Anchor bolts may be tack welded to lower anchorage (Shop or field).
 - 2) At post locations, drill two $1\frac{1}{16}$ " ϕ holes in the rails to receive rails bolts (Shop or field). See Post Details for hole spacing
 - 3) Before installing rails, paint all cut, drilled or otherwise damaged surface areas of the railing components with two coats of zinc rich paint conforming to the requirements of ASTM A 780
 - 4) After installing the rails, paint all exposed bolt threads with two coats of zinc rich paint conforming to the requirements of ASTM A 780.
 - 5) Steel components shall be galvanized according to AASHTO M111, unless noted otherwise.
 - 6) Shim Plates shall be provided in accordance with Article 509.05(a) of the Standard Specifications.

BILL OF MATERIAL

Item	Unit	Total
Steel Railing (Special)	Foot	282



FILE NAME = s:\jpl\6800-6899\6842-007\micro\cadd sheets\structure\0256-3192-6366-008-MRRL.dgn



1170 SOUTH HOUBOLT ROAD
JOLIET, ILLINOIS 60431
(815) 744-4200

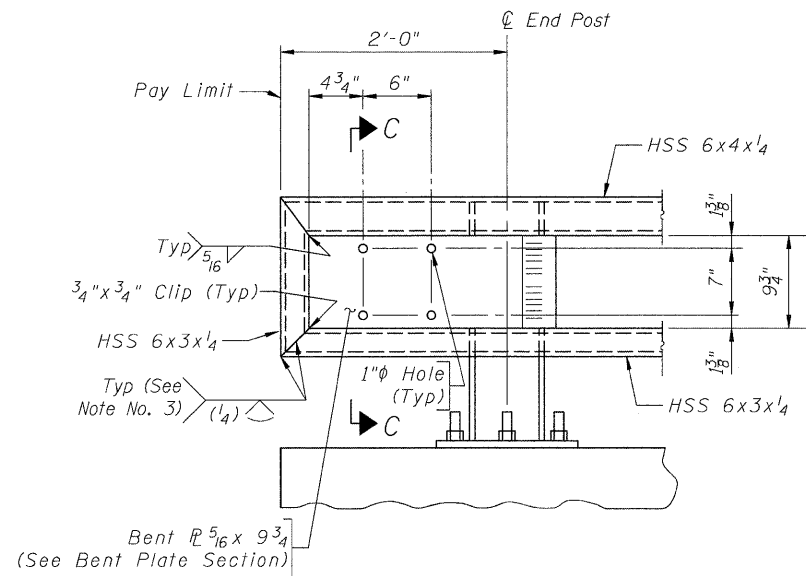
USER NAME = brianf
DESIGNED RRD
CHECKED AJS
DRAWN BJF
CHECKED RRD
PLOT SCALE =
PLOT DATE = 1/3/2012

REVISED -
REVISED -
REVISED -
REVISED -

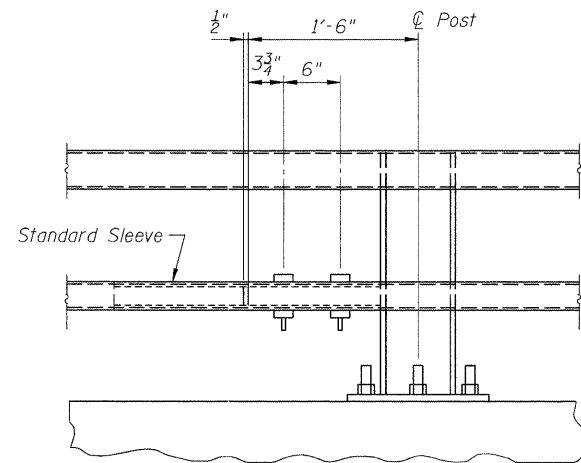
MCHENRY COUNTY DIVISION OF TRANSPORTATION
HILL ROAD BRIDGE OVER
NORTH BRANCH NIPPERSINK CREEK

WYOMING 2-TUBE BRIDGE RAILING DETAILS (1 OF 2)
STRUCTURE NO. 056-3192
SHEET NO. 8 OF 18 SHEETS

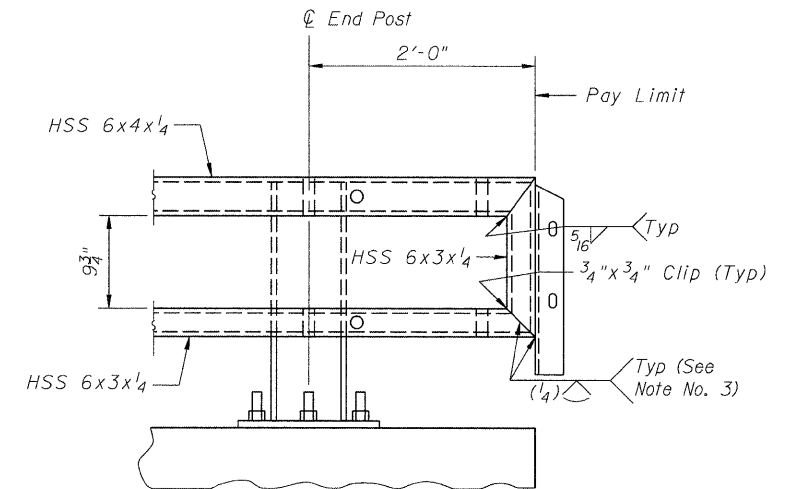
TR	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
21	08-00356-00-BR	MCHENRY	67	38
				CONTRACT NO. 63666
ILLINOIS FED. AID PROJECT				



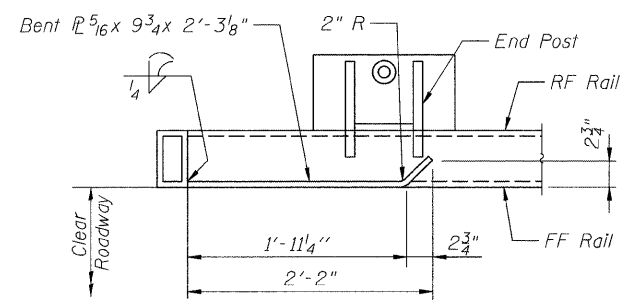
ELEVATION AT TRAFFIC BARRIER TERMINAL (SPECIAL) (DEPARTURE ENDS)



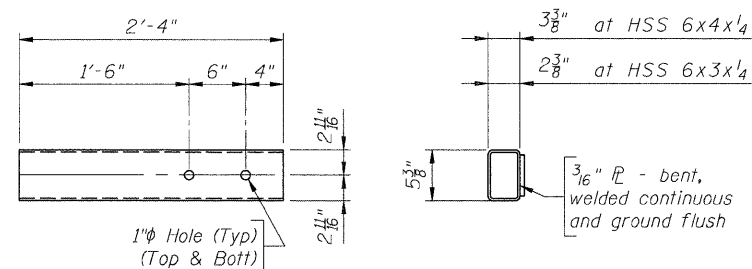
STANDARD SPLICE (Top or bottom rail)



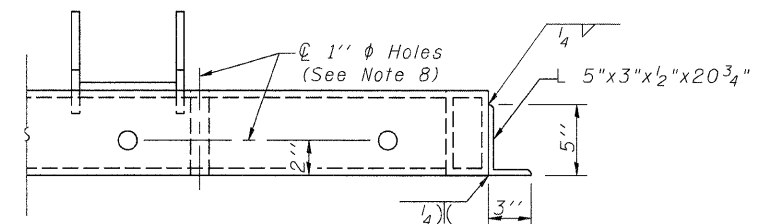
ELEVATION AT TERMINAL TYPE 6A (SPECIAL) (APPROACH ENDS)



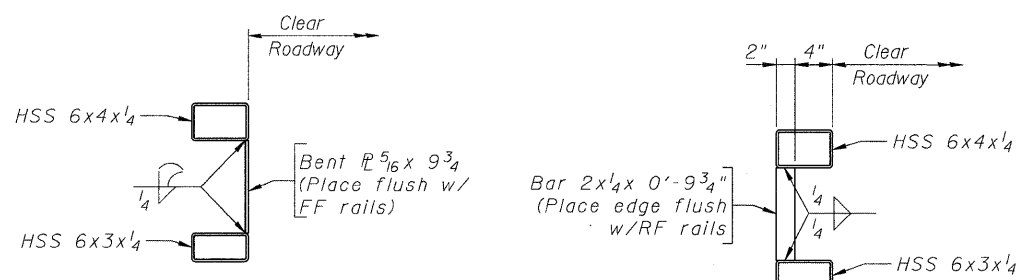
BENT PLATE SECTION (Top rail not shown)



STANDARD SLEEVE DETAILS



TOP VIEW

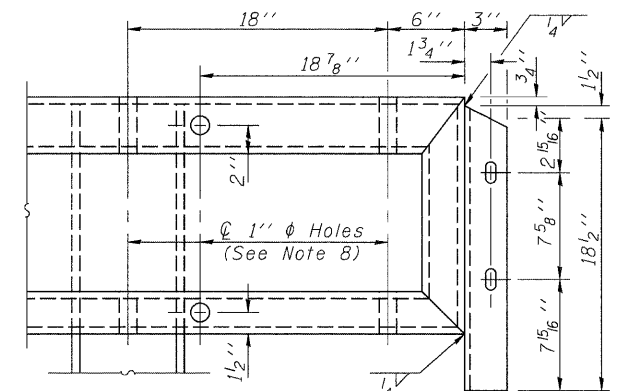


SECTION C-C

BRACE BAR DETAIL (See Note No. 4)

NOTES

- 1) Either top or bottom rail in terminal section may be the longer rail.
- 2) Ensure each rail length is continuous over a minimum of two posts. Railing that is part of a Traffic Barrier Terminal is continuous if either the top or bottom rail in the terminal is continuous over a minimum of two posts.
- 3) Ensure the fabricator prepares a sample of the indicated joint and it is macroetched to demonstrate that the required effective throat is achieved.
- 4) Ensure a Brace Bar is placed 2'-0" from the splice end of the shorter tube at Traffic Barrier Terminals.
- 5) Splices may be located on either side of post.
- 6) Not more than one splice is permitted per side of post.
- 7) Do not shop splice rails.
- 8) Holes in steel railing may be field drilled for connection to Traffic Barrier Terminals. Any galvanized steel exposed or damaged by drilling operation shall be painted with two coats of a zinc-rich paint conforming to ASTM A 780.

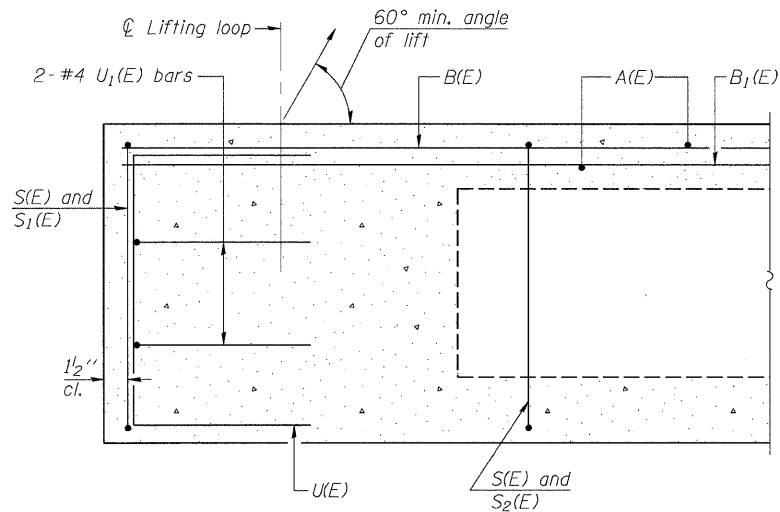


FRONT VIEW

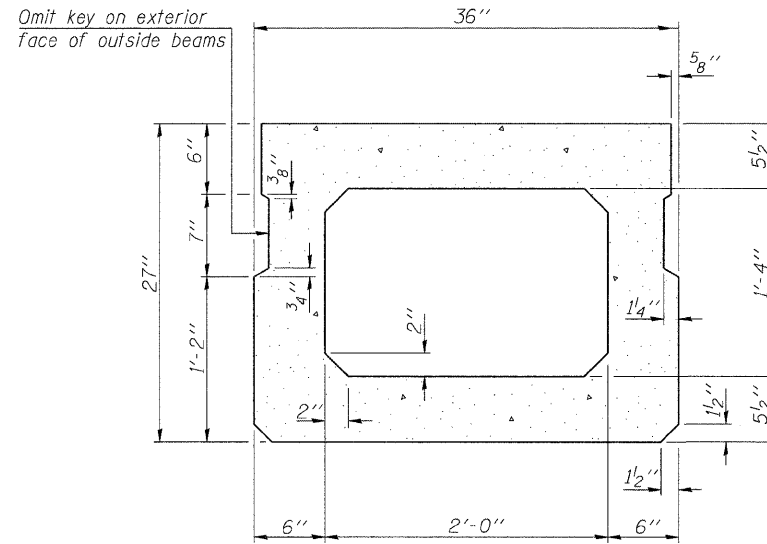
END CONNECTION ANGLES (APPROACH ENDS ONLY)

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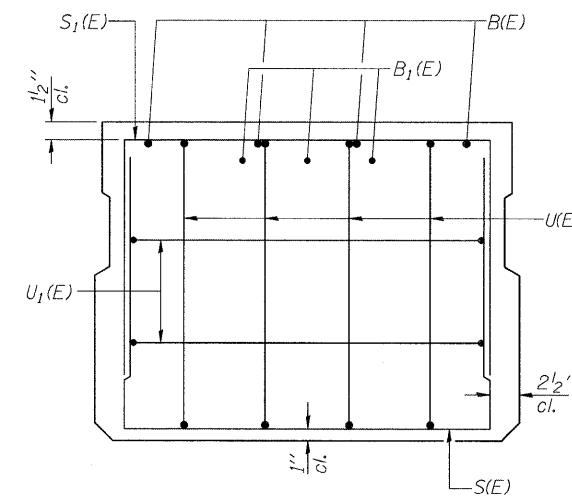
	1170 SOUTH HOUBOLT ROAD JOLIET, ILLINOIS 60431 (815) 744-4200	USER NAME = brianf	DESIGNED <i>RRD</i>	REVISED -	MCHENRY COUNTY DIVISION OF TRANSPORTATION HILL ROAD BRIDGE OVER NORTH BRANCH NIPPERSINK CREEK	WYOMING 2-TUBE BRIDGE RAILING DETAILS (2 OF 2) STRUCTURE NO. 056-3192	TR	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
		PLOT SCALE =	CHECKED <i>AJS</i>	REVISED -			21	08-00356-00-BR	MCHENRY	67	39
		PLOT DATE = 1/3/2012	DRAWN <i>B/JF</i>	REVISED -	SHEET NO. 9 OF 18 SHEETS		ILLINOIS FED. AID PROJECT				
			CHECKED <i>RRD</i>	REVISED -			CONTRACT NO. 63666				



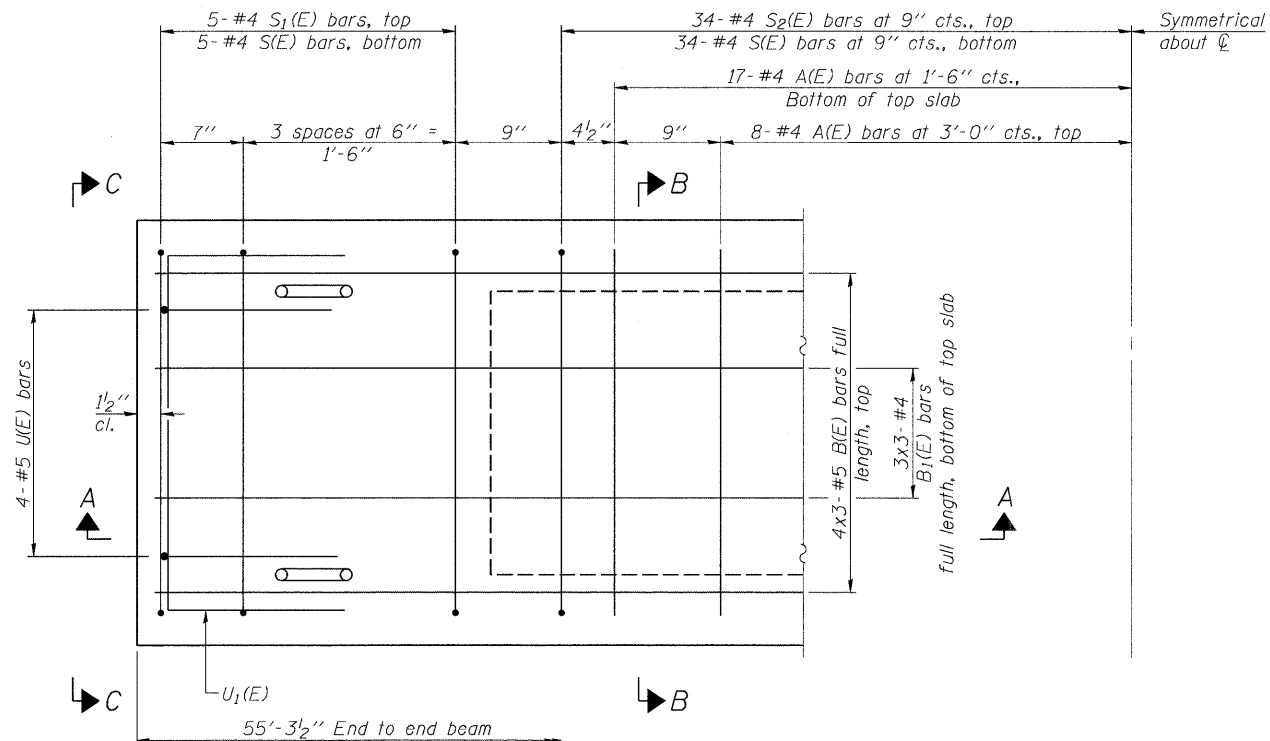
SECTION A-A



SECTION B-B
(Showing dimensions)



VIEW C-C

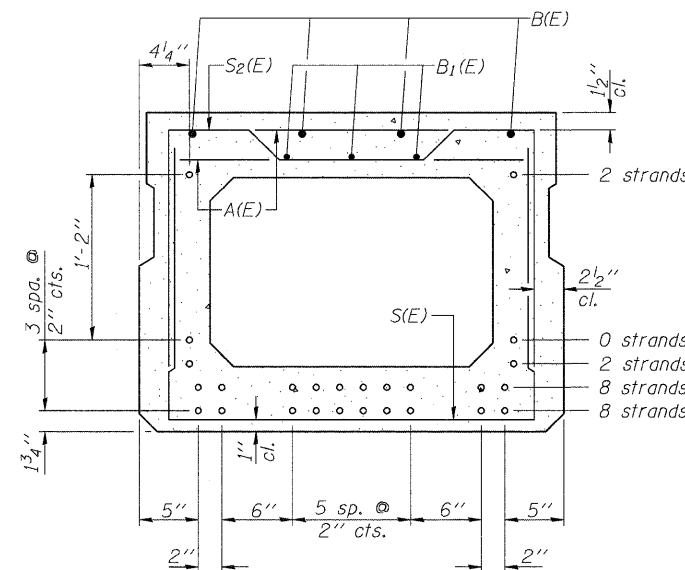


PLAN VIEW

Note: Spacing of S(E) and S2(E) bars may be adjusted up to 4" in the immediate area of the transverse tie diaphragms to miss the block outs for the transverse ties.

MINIMUM BAR LAP

#4 bar = 2'-0"
#5 bar = 2'-6"



SECTION B-B

(Showing reinforcement and permissible strand locations)
Note: Place the number of strands specified in each row symmetrically about the centerline of beam in the permissible strand locations shown.

DESIGN STRESSES

$f'_c = 6,000$ psi
 $f'_{ci} = 5,000$ psi
 $f_{pu} = 270,000$ psi (1/2" low lax. strands)
 $f_{pbt} = 201,960$ psi (1/2" low lax. strands)

BAR LIST
ONE BEAM ONLY

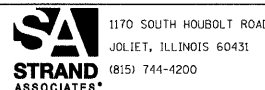
(For information only)

Bar	No.	Size	Length	Shape
A(E)	50	#4	2'-7"	—
B(E)	12	#5	20'-2"	—
B1(E)	9	#4	19'-10"	—
D(E)	14	#4	2'-9"	U
S(E)	78	#4	6'-5"	U
S1(E)	10	#4	5'-11"	U
S2(E)	68	#4	6'-2"	U
U(E)	8	#5	4'-6"	U
U1(E)	4	#4	5'-0"	U

Note:
See sheet 11 of 18 for additional details and Bill of Material.
Bars indicated thus 4x3-#5 ect. indicates 4 lines of bars with 3 lengths per line.
See sheet 5 of 18 for D(E) bar bend diagram.

PD-2736-0

7-1-10



1170 SOUTH HOUBOLT ROAD
JOLIET, ILLINOIS 60431
(815) 744-4200

USER NAME = brianf
DESIGNED RRD
CHECKED AJS
DRAWN BJF
CHECKED RRD

PLOT SCALE =
PLOT DATE = 1/3/2012

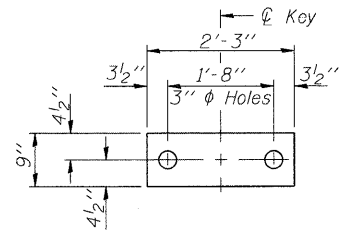
REVISOR
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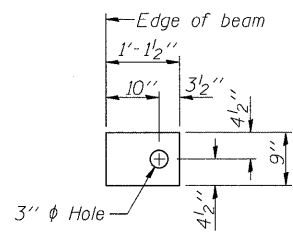
MCHENRY COUNTY DIVISION OF TRANSPORTATION
HILL ROAD BRIDGE OVER
NORTH BRANCH NIPPERSINK CREEK

27" x 36" PPC DECK BEAM
STRUCTURE NO. 056-3192
SHEET NO. 10 OF 18 SHEETS

TR	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
21	08-00356-00-BR	MCHENRY	67	40
CONTRACT NO. 63666			ILLINOIS FED. AID PROJECT	



FABRIC BEARING PAD
(Interior)

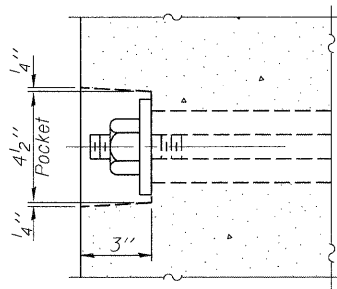


FABRIC BEARING PAD
(Exterior)

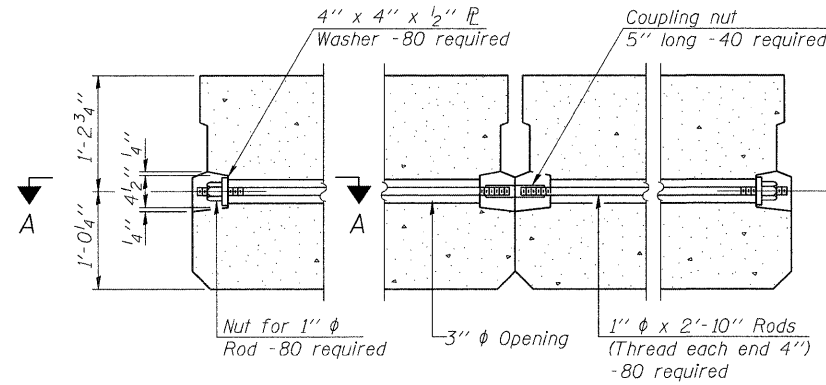
FIXED

Notes:

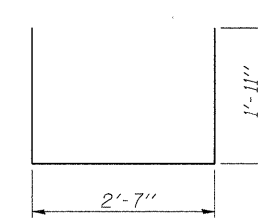
- All bearing pads shall be 1" thick.
- Omit holes when using expansion bearings.
- Expansion bearing pad shall be bonded to the substructure.



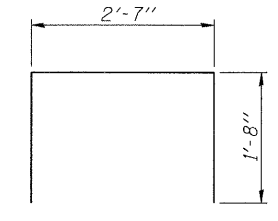
SECTION A-A



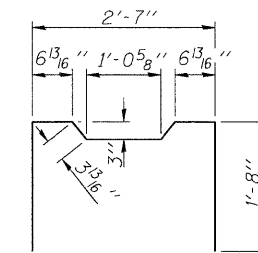
TYPICAL TRANSVERSE TIE ASSEMBLY



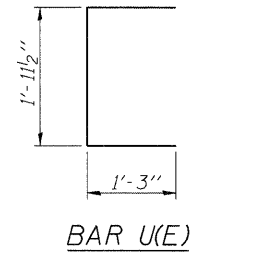
BAR S(E)



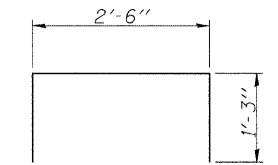
BAR S1(E)



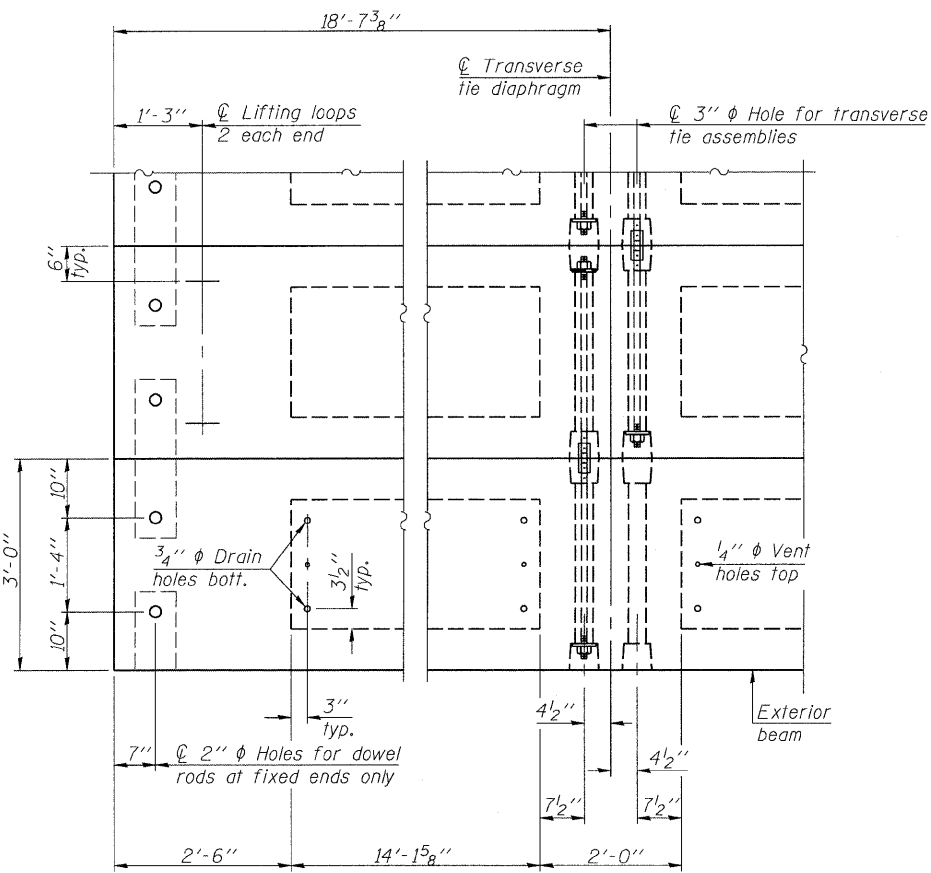
BAR S2(E)



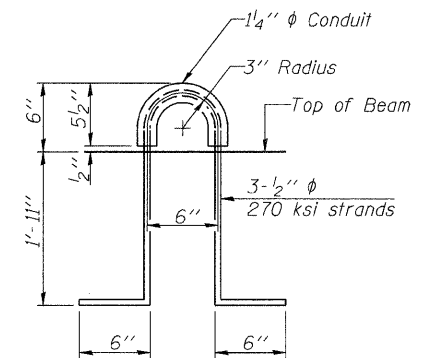
BAR U(E)



BAR U1(E)



PLAN VIEW



LIFTING LOOP DETAIL

NOTES

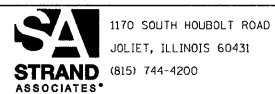
- Prestressing steel shall be uncoated high strength, low relaxation 7-wire strand, Grade 270. The nominal diameter shall be 1/2" and the nominal cross-sectional area shall be 0.153 sq. in.
- The 1" diameter rods in the transverse tie assembly shall be tightened to a snug fit and the threads set. Pockets on exterior faces of bridge shall be filled with grout after transverse tie assembly is in place.
- Reinforcement bars shall conform to ASTM A 706, Grade 60. (See Special Provisions).
- Two 1/8" fabric adjusting shims of the dimensions of the exterior bearing pad shall be provided for each bearing pad location.
- A minimum 2 1/2" diameter lifting pin shall be used to engage the lifting loops during handling.
- Corrosion Inhibitor, per Article 1020.05(b)(12) and 1021.06 of the Standard Specifications, shall be used in the concrete for precast prestressed concrete deck beams.
- Compressive strength of prestressed concrete, f'c, shall be 6000 psi.
- Compressive strength of prestressed concrete at release, f'ci, shall be 5000 psi.

BILL OF MATERIAL

Precast Prestressed Conc. Deck Bms. (27" depth)	Sq. Ft.	3,981
---	---------	-------

Note: Connect beams in pairs with the transverse tie configuration shown.

PD-2736-0D 7-1-10



USER NAME = brianf	DESIGNED RRD	REVISED -
PLOT SCALE =	CHECKED AJS	REVISED -
PLOT DATE = 1/3/2012	DRAWN BJF	REVISED -
	CHECKED RRD	REVISED -

MCHENRY COUNTY DIVISION OF TRANSPORTATION
HILL ROAD BRIDGE OVER
NORTH BRANCH NIPPERSINK CREEK

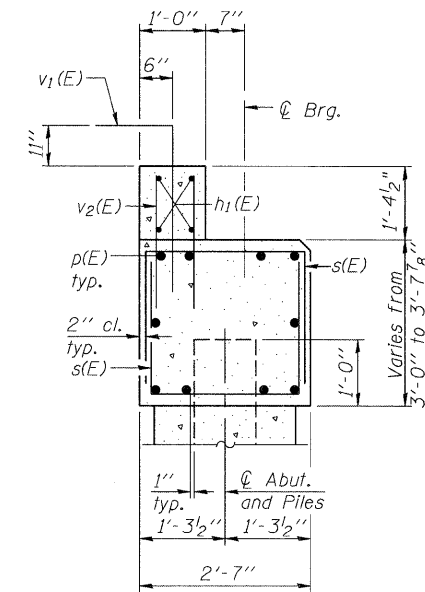
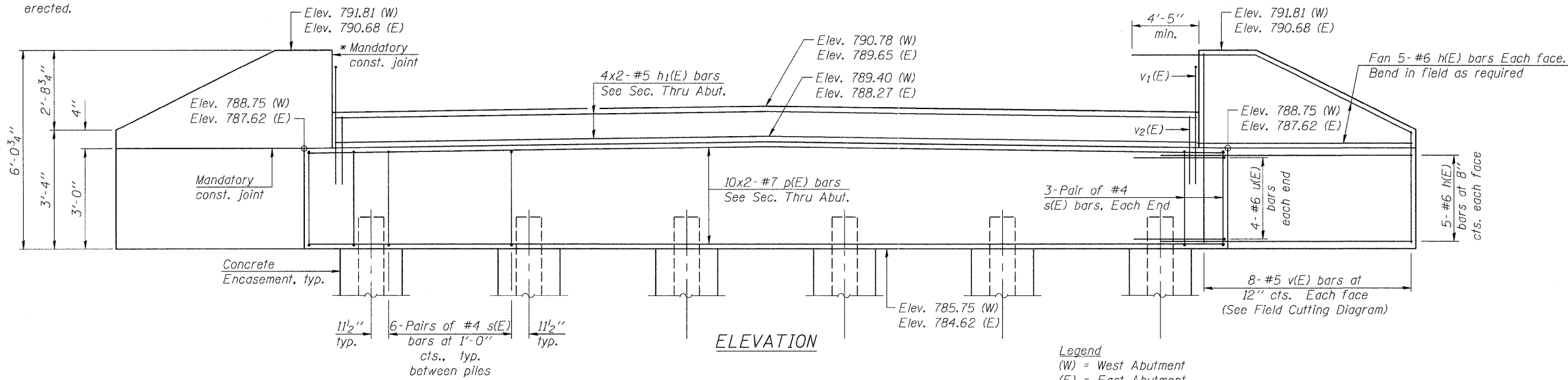
27" x 36" PPC DECK BEAM DETAILS
STRUCTURE NO. 056-3192

SHEET NO. 11 OF 18 SHEETS

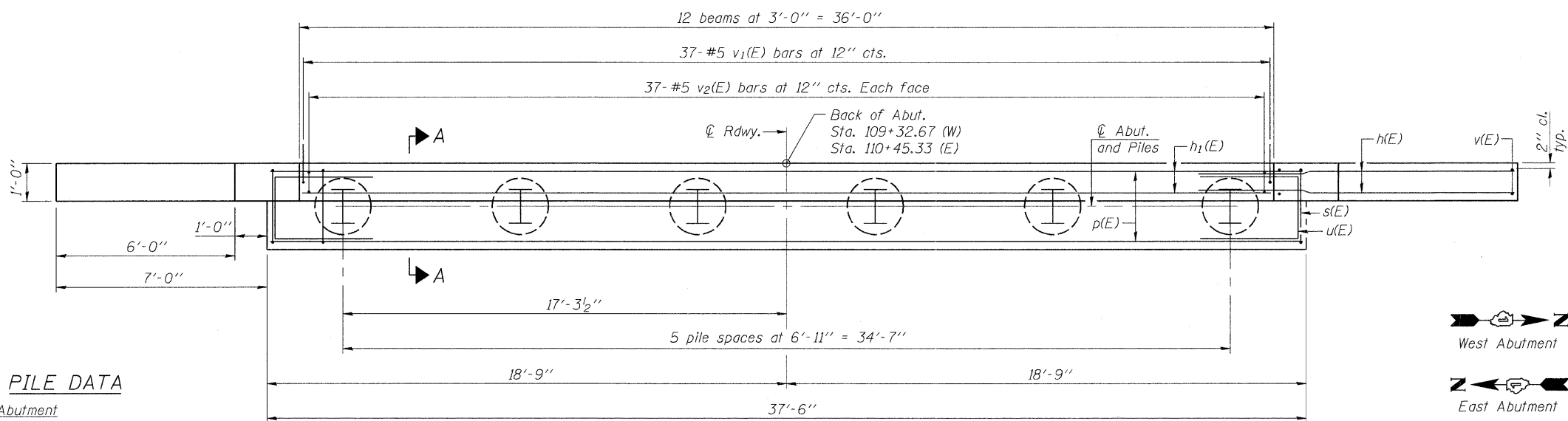
TR	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
21	08-00356-00-BR	MCHENRY	67	41
			CONTRACT NO. 63666	
ILLINOIS FED. AID PROJECT				

FILE NAME = s:\p\16600-6899\6842\007\micro\acadd sheets\structure\056-3192-63666-011-BEAM.dgn

* Cast top of wingwall flush with exterior beam face after beams have been erected.



Legend
(W) = West Abutment
(E) = East Abutment



BILL OF MATERIAL

Two Abutments

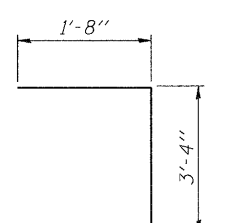
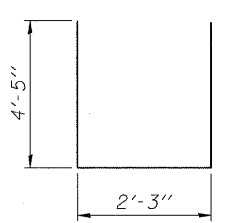
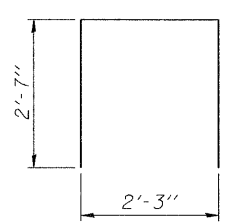
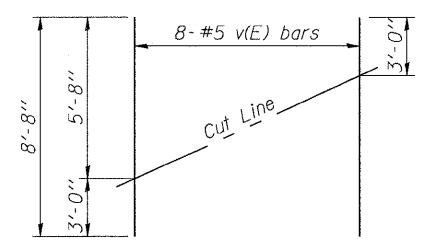
Bar	No.	Size	Length	Shape
h(E)	80	#6	12'-9"	—
h ₁ (E)	16	#5	19'-7"	—
p(E)	40	#7	21'-8"	—
s(E)	144	#4	7'-5"	□
u(E)	16	#6	11'-1"	□
v(E)	32	#5	8'-8"	—
v ₁ (E)	74	#5	5'-0"	└
v ₂ (E)	74	#5	4'-2"	└
Structure Excavation		Cu. Yd.	96	
Concrete Structures		Cu. Yd.	33	
Reinforcement Bars, Epoxy Coated		Pound	5,610	
Furnishing Steel Piles, HP 14x73		Foot	425	
Driving Piles		Foot	425	
Test Pile, Steel HP 14x73		Each	3	
Concrete Encasement		Cu. Yd.	7	
Pile Shoes		Each	12	
Concrete Sealer		Sq. Ft.	434	

PILE DATA

West Abutment
Type: HP 14x73 with Pile Shoes
Nominal Required Bearing: 360 kips
Factored Resistance Available: 180 kips
Est. Length: 40 feet
No. Production Piles: 4
No. Test Piles: 2

East Abutment
Type: HP 14x73 with Pile Shoes
Nominal Required Bearing: 360 kips
Factored Resistance Available: 180 kips
Est. Length: 53 feet
No. Production Piles: 5
No. Test Piles: 1

Notes:
Contractor shall drive a total of three (3) test piles in a permanent location, one at the East Abutment and two at the West Abutment as directed by the engineer, before ordering the remainder of piles.
An abandoned railroad embankment may be encountered behind the existing west abutment. Piles shall be driven through embankment.



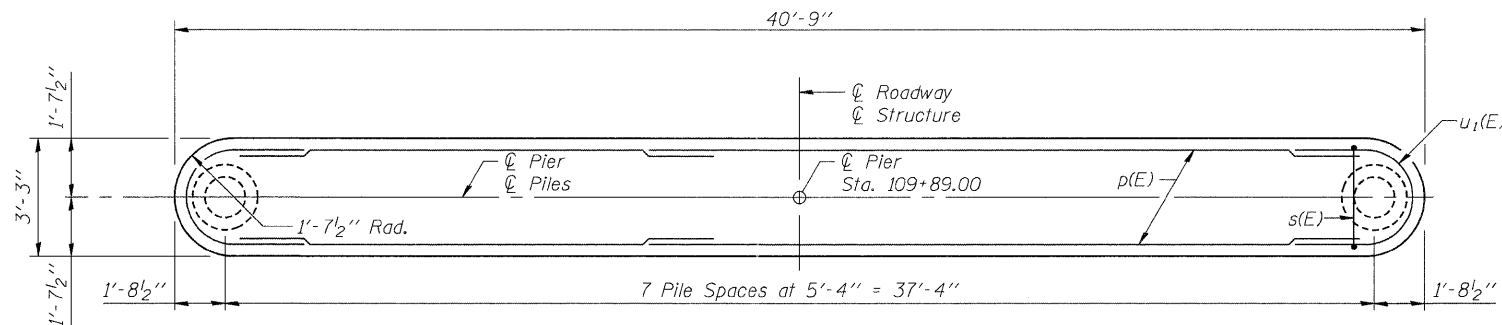
MINIMUM BAR LAP
#5 bar = 3'-3"
#7 bar = 5'-10"

AD-2742-0

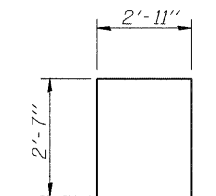
7-1-10

PILE DATA

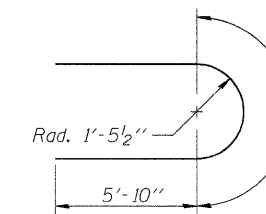
Type: Metal Shell-14"φx0.312" walls with pile shoes
 Nominal Required Bearing: 360 kips
 Factored Resistance Available: 180 kips
 Est. Length: 28'-0"
 No. Production Piles: 7
 No. Test Piles: 1



TOP PLAN

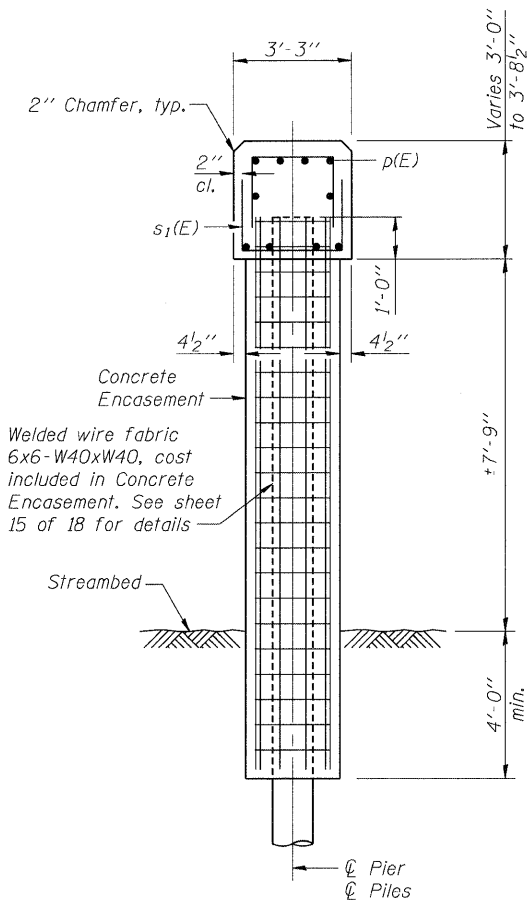


BAR s₁(E)

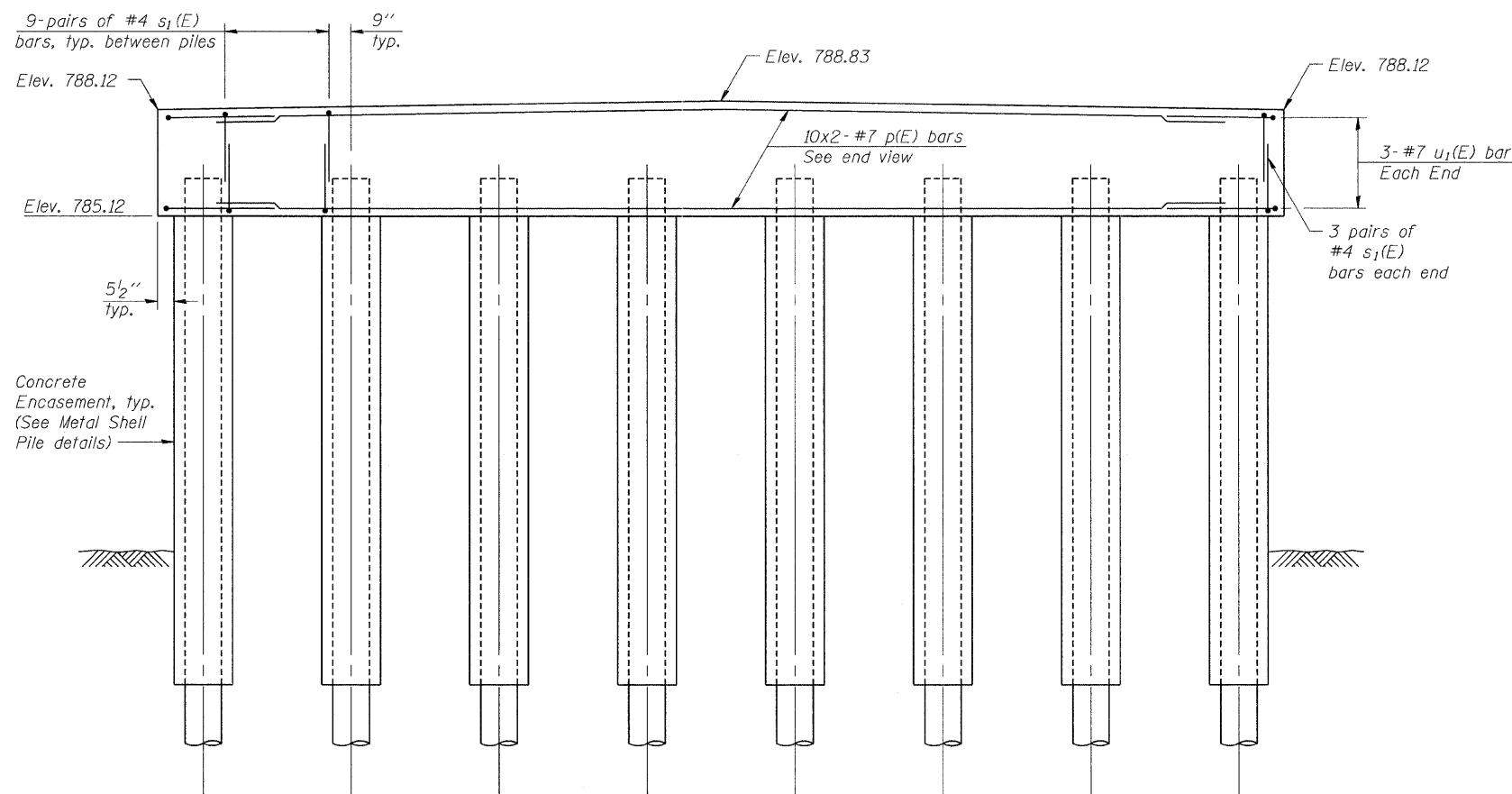


BARS u₁(E)

MINIMUM BAR LAP
 #7 bar = 5'-10"



END VIEW



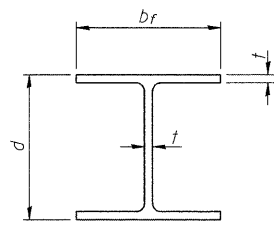
ELEVATION
 (Looking East)

BILL OF MATERIAL

Bar	No.	Size	Length	Shape
p(E)	20	#7	21'-8"	—
s ₁ (E)	138	#4	8'-1"	□
u ₁ (E)	6	#7	16'-3"	⌋
Cofferdam Excavation		Cu. Yd.		43
Cofferdam (Type I) (Location-1)		Each		1
Concrete Structures		Cu. Yd.		16
Reinforcement Bars, Epoxy Coated		Pound		1,830
Furnishing Metal Shell Piles, 14"x0.312"		Foot		196
Driving Piles		Foot		196
Test Pile, Metal Shells		Each		1
Concrete Encasement		Cu. Yd.		14
Pile Shoes		Each		8
Concrete Sealer		Sq. Ft.		411

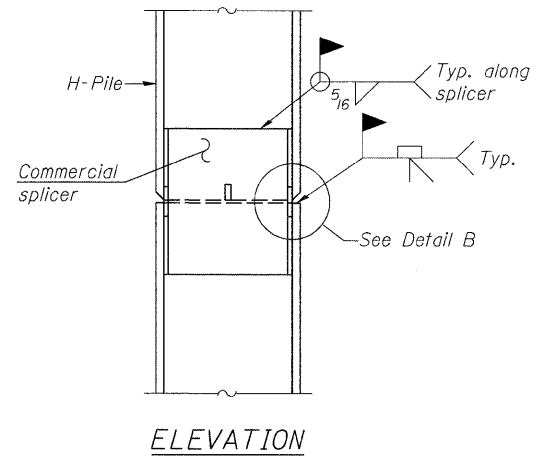
Notes:
 Space reinforcement in cap to miss anchor dowel rods.
 For details of piles and concrete encasement, see sheet 15 of 18.
 Bar indicated thus 10x2-#5 ect. indicates 10 lines of bars with 2 lengths per line.
 Apply Concrete Sealer to top and sides of pier cap.
 See sheet 15 of 18 for Concrete Encasement details.
 See Erosion Control sheet for location of cofferdam.

FILE NAME = s:\p1\68800-6895\6842\007\mcr\cadd_sheets\structural\0856-3192-63666-013-PIER.dgn

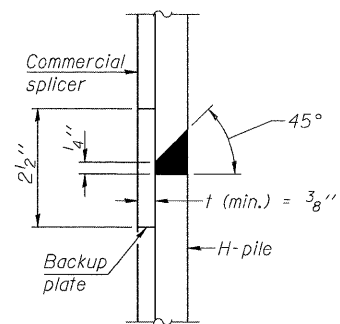


STEEL PILE TABLE

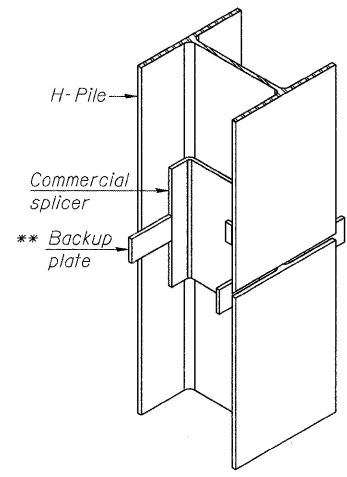
Designation	Depth d	Flange width b _f	Web and Flange thickness t	Encasement diameter A
HP 14x117	14 1/4"	14 7/8"	13/16"	30"
x102	14"	14 3/4"	1/16"	30"
x89	13 7/8"	14 3/4"	5/8"	30"
x73	13 5/8"	14 5/8"	1/2"	30"
HP 12x84	12 1/4"	12 1/4"	1/16"	24"
x74	12 1/8"	12 1/4"	5/8"	24"
x63	12"	12 1/8"	1/2"	24"
x53	11 3/4"	12"	7/16"	24"
HP 10x57	10"	10 1/4"	9/16"	24"
x42	9 3/4"	10 1/8"	7/16"	24"
HP 8x36	8"	8 1/8"	7/16"	18"



ELEVATION

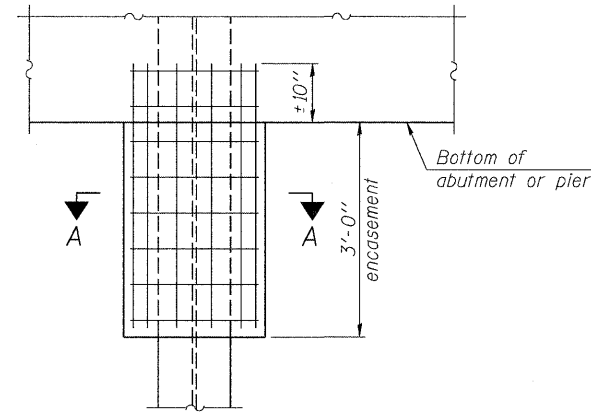


DETAIL "B"



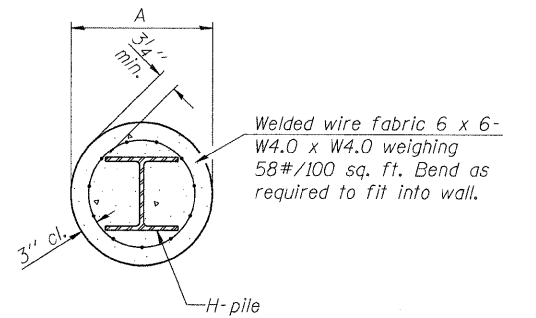
ISOMETRIC VIEW

WELDED COMMERCIAL SPLICE



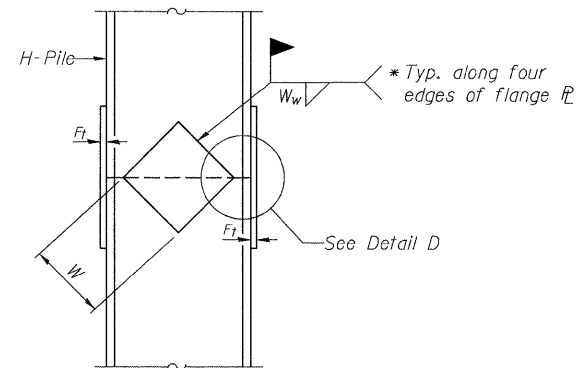
ELEVATION

PILE ENCASEMENT

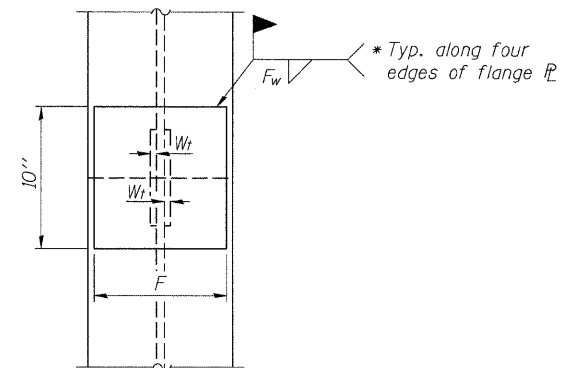


SECTION A-A

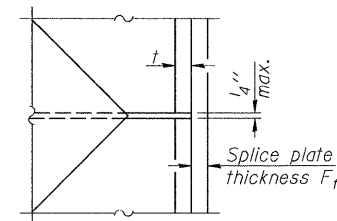
Note:
Forms for encasement may be omitted when soil conditions permit.



ELEVATION



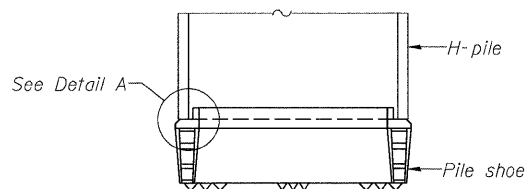
END VIEW



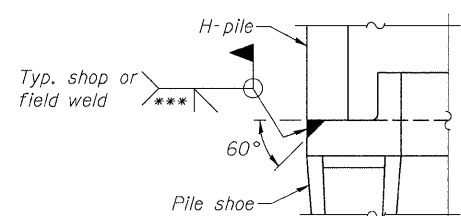
DETAIL D

WELDED PLATE FIELD SPLICE

Designation	F	F _t	F _w	W	W _t	W _w
HP 14x117	12 1/2"	1"	7/8"	7 3/4"	5 1/2"	1/2"
x102	12 1/2"	7/8"	3/4"	7 3/4"	5 1/2"	1/2"
x89	12 1/2"	3/4"	1/16"	7 3/4"	5 1/2"	1/2"
x73	12 1/2"	5/8"	9/16"	7 3/4"	5 1/2"	1/2"
HP 12x84	10"	7/8"	1/16"	6 1/2"	5 1/2"	1/2"
x74	10"	7/8"	1/16"	6 1/2"	5 1/2"	1/2"
x63	10"	5/8"	1/2"	6 1/2"	1/2"	3/8"
x53	10"	5/8"	1/2"	6 1/2"	1/2"	3/8"
HP 10x57	8"	3/4"	9/16"	5 1/4"	1/2"	3/8"
x42	8"	5/8"	9/16"	5 1/4"	1/2"	3/8"
HP 8x36	7"	5/8"	7/16"	4 1/4"	1/2"	3/8"

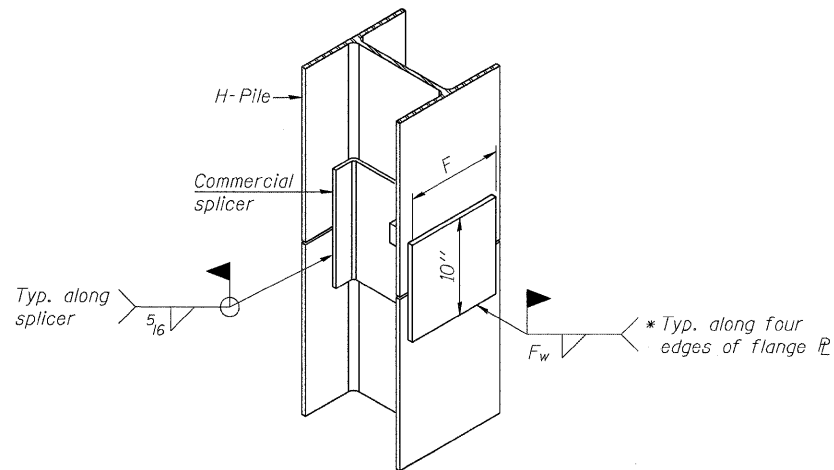


ELEVATION



DETAIL A

H-PILE SHOE ATTACHMENT



ISOMETRIC VIEW

WELDED COMMERCIAL SPLICE ALTERNATE

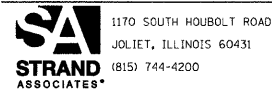
- * Interrupt welds 1/4" from end of web and/or each flange.
- ** Remove portions of backup plates that extend outside the flanges.
- *** Weld size per pile shoe manufacturer (5/16" min.).

Note:
The steel H-piles shall be according to AASHTO M270 Grade 50.

FILE NAME = s:\p1\68809-6889\macro\cadd sheets\structural\056-3192-63666-014-HP.PILE.dgn

F-HP

7-1-10



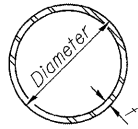
USER NAME = brianf	DESIGNED RRD	REVISED -
PLOT SCALE =	CHECKED AJS	REVISED -
PLOT DATE = 1/3/2012	DRAWN BJF	REVISED -
	CHECKED RRD	REVISED -

DESIGNED RRD	REVISED -
CHECKED AJS	REVISED -
DRAWN BJF	REVISED -
CHECKED RRD	REVISED -

MCHENRY COUNTY DIVISION OF TRANSPORTATION
HILL ROAD BRIDGE OVER
NORTH BRANCH NIPPERSINK CREEK

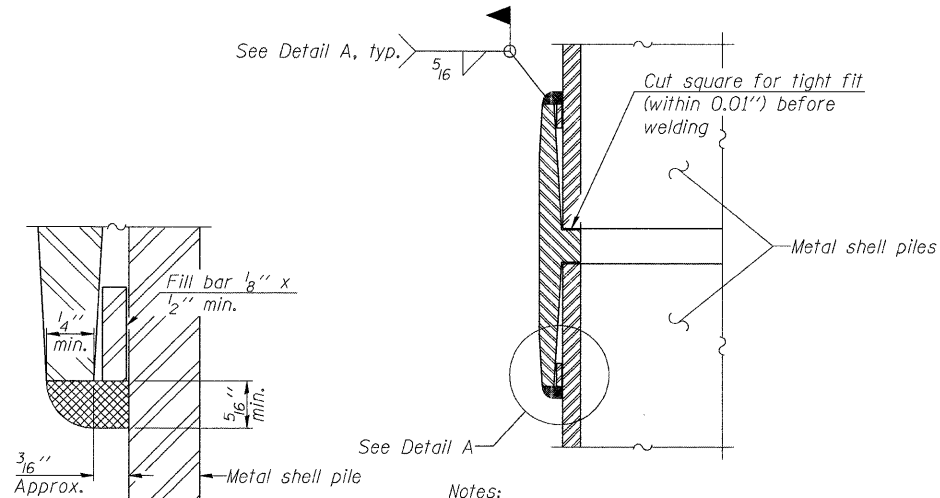
HP PILE DETAILS
STRUCTURE NO. 056-3192
SHEET NO. 14 OF 18 SHEETS

TR	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
21	08-00356-00-BR	MCHENRY	67	44
CONTRACT NO. 63666			ILLINOIS FED. AID PROJECT	



METAL SHELL PILE TABLE

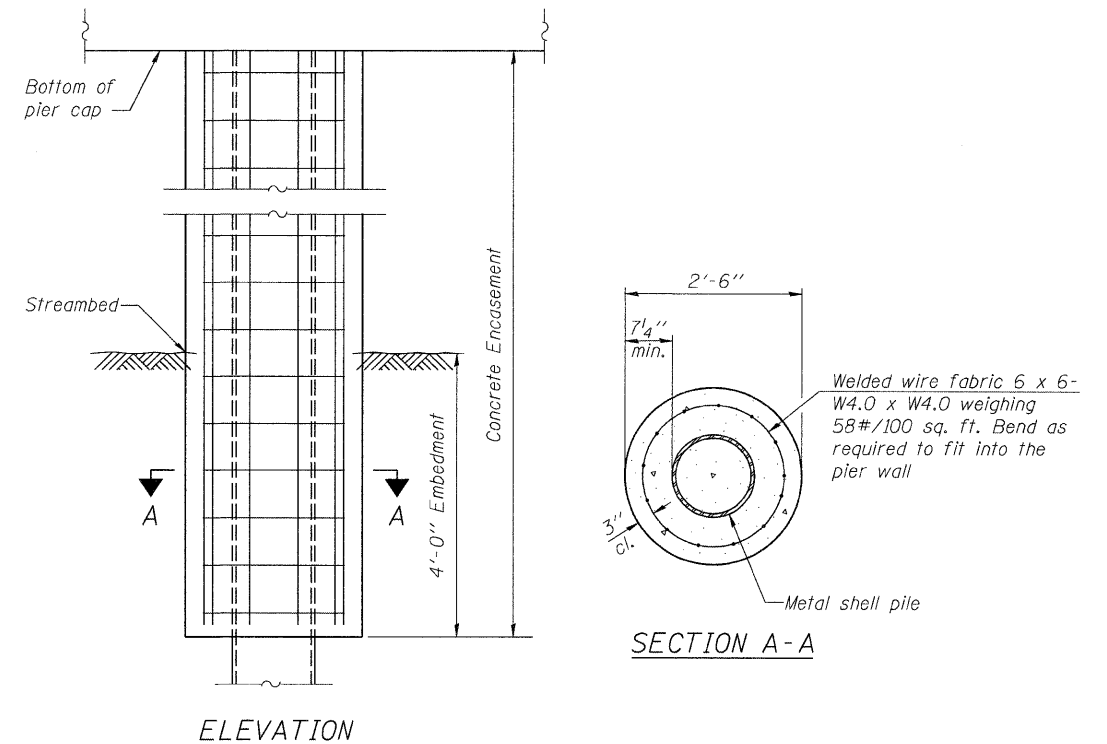
Designation and outside diameter	Wall thickness t	Weight per foot (Lbs./ft.)	Inside volume (yd. ³ /ft.)
PP12	0.179"	22.60	0.0274
PP12	0.250"	31.37	0.0267
PP14	0.250"	36.71	0.0368
PP14	0.312"	45.61	0.0361



DETAIL A

Notes:
 The 1/8" x 1/2" min. fill bar may be constructed of 2 bars with a 1/8" max. gap between them.
 Pile segments shall be driven to solid contact with splicer before welding.

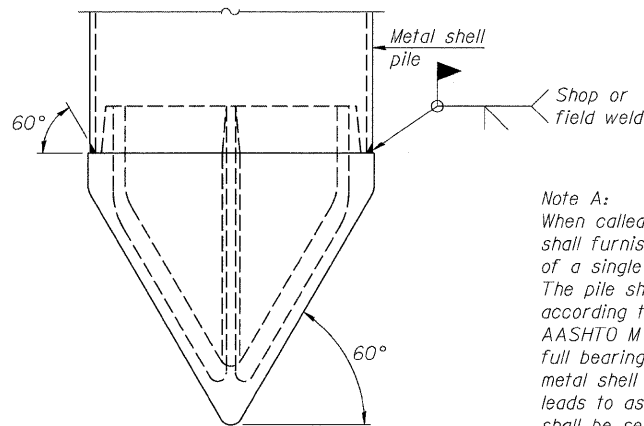
WELDED COMMERCIAL SPLICE



ELEVATION

SECTION A-A

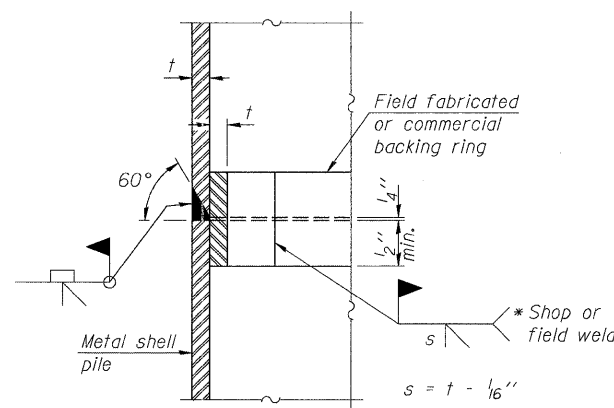
CONCRETE ENCASEMENT AT PIERS



Note A:
 When called for on the plans, the Contractor shall furnish metal shell pile shoes consisting of a single piece conical pile point as shown. The pile shoes shall be cast in one piece steel according to either ASTM A 148 Grade 90-60 or AASHTO M 103 Grade 65-35 and shall provide full bearing over the full circumference of the metal shell pile. The pile shoe shall have tapered leads to assure proper alignment and fitting and shall be secured to the pile with a circumferential weld.

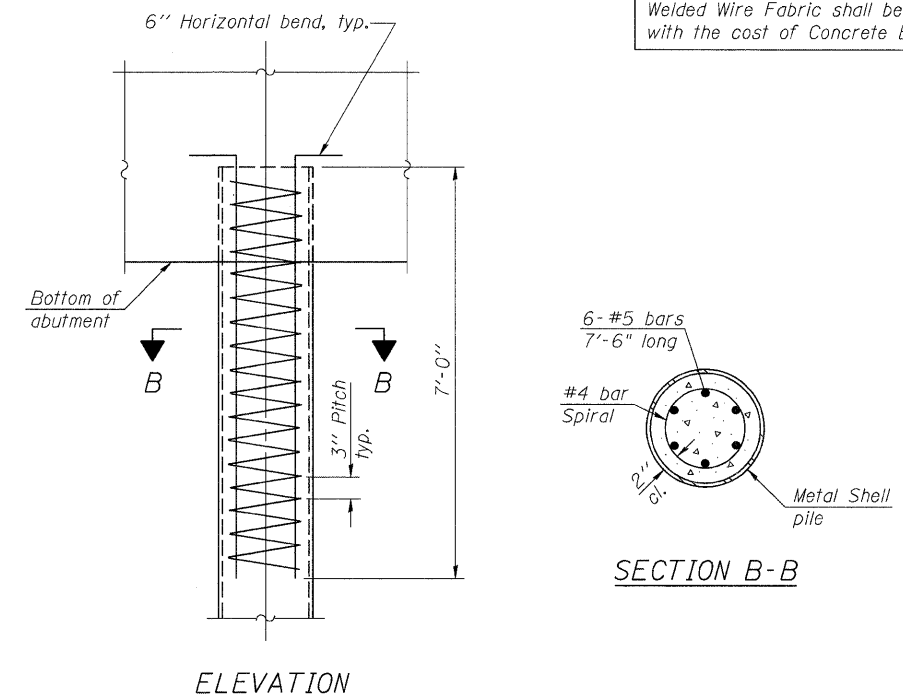
METAL SHELL PILE SHOE ATTACHMENT

(See Note A)



COMPLETE PENETRATION WELD SPLICE

* Field fabricated backing ring may be made from pile shell by removing segment to allow reducing circumference and vertically rejoin with partial joint penetration weld.



ELEVATION

SECTION B-B

METAL SHELL REINFORCEMENT AT ABUTMENTS

Metal Shell reinforcement at abutments shall be included with the cost of Furnishing Metal Shell Piles.

Note:
 The metal shell piles shall be according to ASTM A 252 Grade 3.

FILE NAME = s:\jcl\5809--6899\6842\087\micrca\sheet\structural\0856-3192-63666-015-MPILE.dgn

1170 SOUTH HOBOLT ROAD JOLIET, ILLINOIS 60431 (815) 744-4200	USER NAME = brianf	DESIGNED RRD	REVISED -	MCHENRY COUNTY DIVISION OF TRANSPORTATION HILL ROAD BRIDGE OVER NORTH BRANCH NIPPERSINK CREEK	METAL SHELL PILE DETAILS STRUCTURE NO. 056-3192 SHEET NO. 15 OF 18 SHEETS	TR	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	PLOT SCALE =	DRAWN B/JF	REVISED -			21	08-00356-00-BR	MCHENRY	67	45
	PLOT DATE = 1/3/2012	CHECKED RRD	REVISED -			CONTRACT NO. 63666				
ILLINOIS FED. AID PROJECT										

Testing Service Corporation

STRUCTURE BORING LOG

Page 1 of 2

Date Started 10/12/09

Date Completed 10/12/09

ROUTE TR21 DESCRIPTION Hill Rd. Over N. Branch Nippersink Creek
 SECT. 08-000356-00-BR STRUCT. NO. 056-3192 DRILLED BY TSC-L-72,490
 COUNTY McHenry LOCATION S. End East Abutment S. 16E 1/2, TWP. 46N, RNG. 8E

Boring No.	Station	Offset	Surface Elev.	DEPTH	BL O W S	Qu tsf	W %	Surface Water Elev.	Groundwater Elev.:	DEPTH	BL O W S	Qu tsf	W %
3	110+44	6.00ft LL	790.10 ft					779.6					
6" Asphaltic Concrete													
4" Sand and Gravel Subbase 789.10													
FILL - Brown SAND and GRAVEL, damp A-1-a													
				19			4.0			8			
				24						9			
				27						11			
				18			3.9			10			
				22						15			
				17						19			
FILL - Dark brown CLAY LOAM, trace gravel, trace organic, moist A-6													
				4	P		13.5						
				4		1.0							
				3									
FILL - Brown SILTY CLAY, trace gravel, trace roots, very moist A-6													
				1	P		24.2			15			
				1		0.75				20			
				3						21			
Very soft dark brown ORGANIC CLAY, very moist A-6													
				4	P		40.8						
				2		0.25							
				3									
Medium dense brown SAND and GRAVEL, saturated A-1-a													
				5						4	B		12.0
				6						7		0.7	
				7						6		15%	
Stiff light-brown SILTY CLAY, little sand, occasional silt and sand seams, very moist A-6/A-7-6													
				11	P		17.1						
				15		1.0							
				7									
				7	B		21.8			5	P		
				8		1.49				7		0.75	13.9
				10		15%				7			
				5	B		23.9						
				7		1.23							
				16		15%							
Medium dense to dense brown SAND, little to some gravel, saturated A-1-b													
				9						5			11.5
				9						7			
				12						13			

LOT: BORING 72480.DPJ | BDT | GDT | 10.28.09

SPT: (N) = Sum of last two blow values in sample. (Qu) B=Bulge S=Shear P=Penetration Test Stations, Depths, Offset, and Elevations are in Feet

Testing Service Corporation

STRUCTURE BORING LOG

Page 2 of 2

Date Started 10/12/09

Date Completed 10/12/09

STRUCTURE NO. 056-3192 STRUCTURE NO. 056-3192
 ROUTE TR21 ROUTE TR21
 SECT. 08-000356-00-BR SECTION 08-000356-00-BR
 COUNTY McHenry COUNTY McHenry

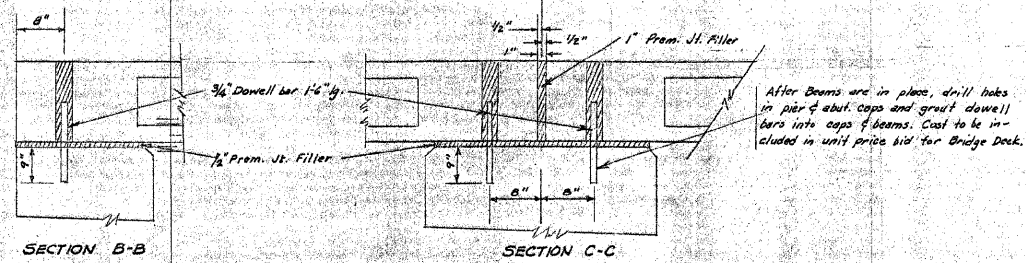
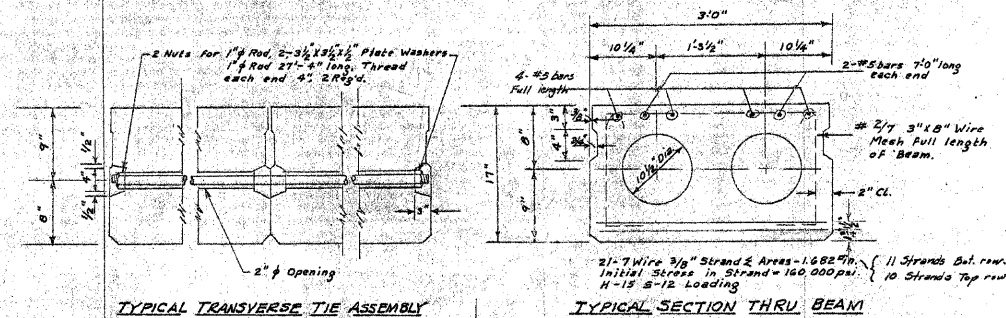
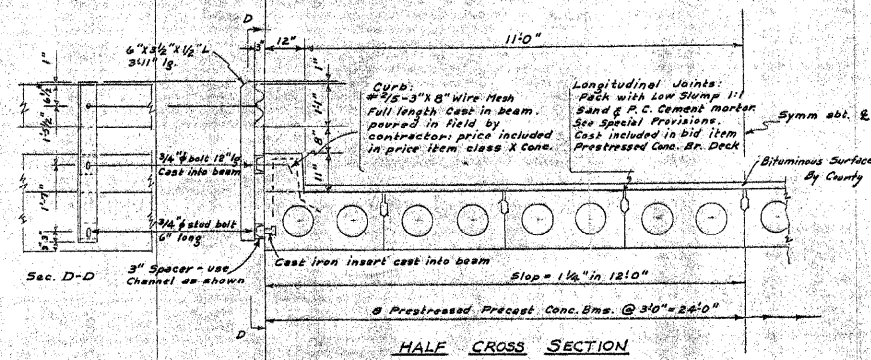
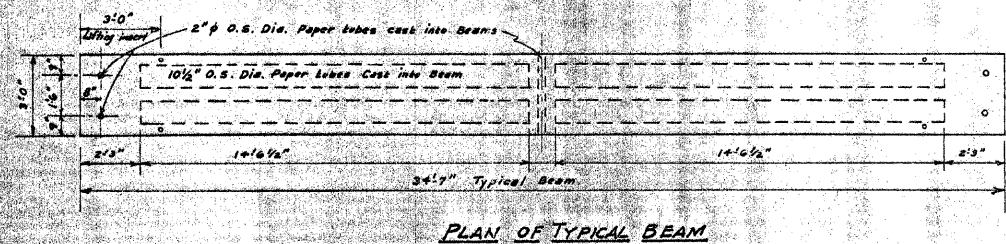
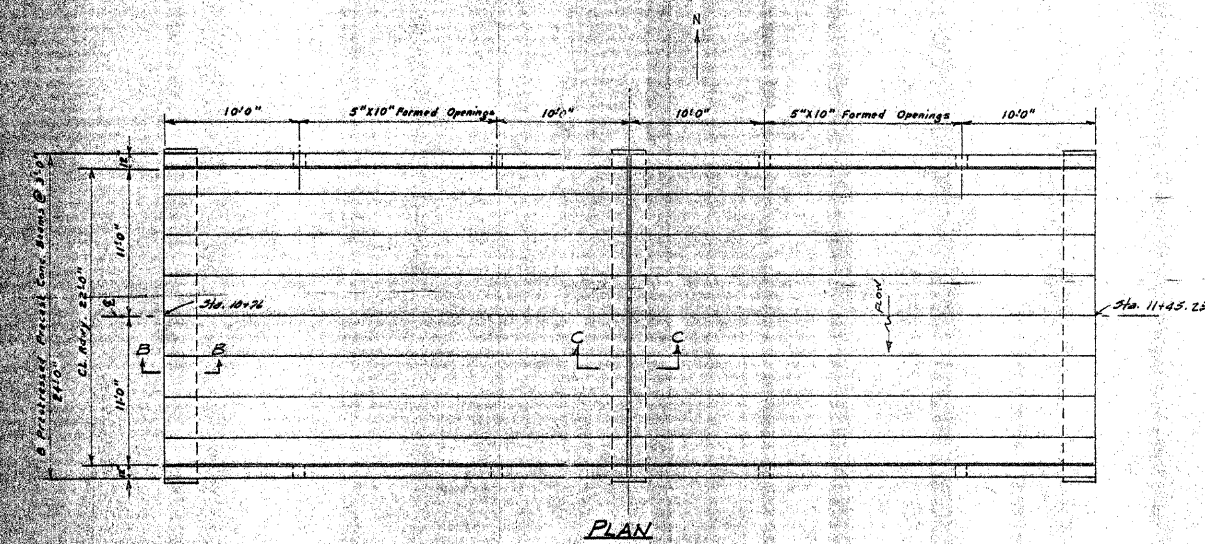
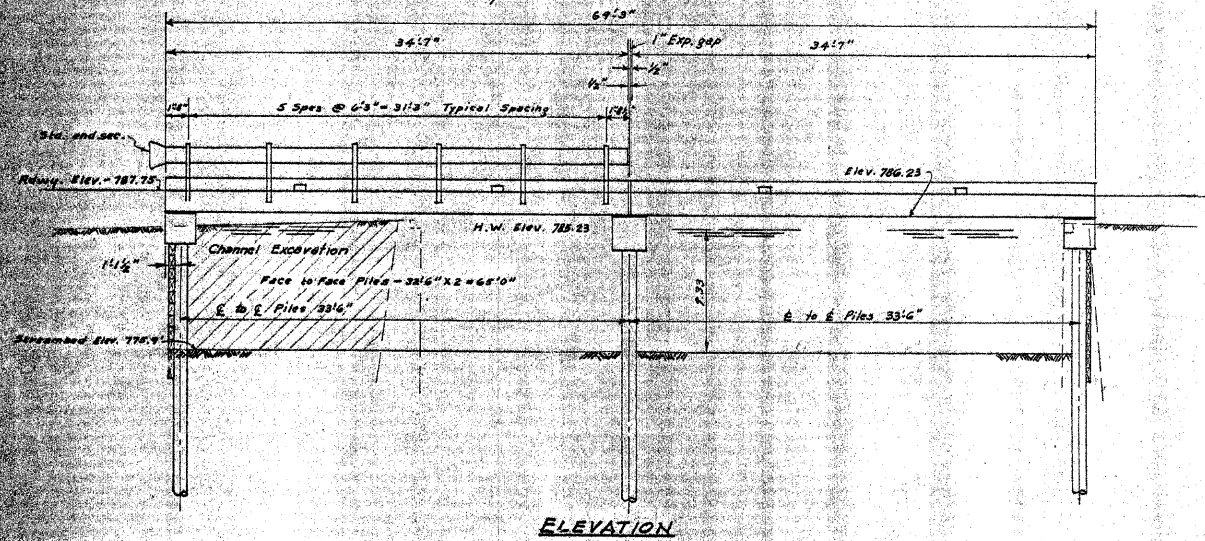
Boring No.	Station	Offset	Elevation	DEPTH	BL O W S	Qu tsf	W %	Surface Water Elev.	Groundwater Elev.:	DEPTH	BL O W S	Qu tsf	W %
3	110+44	6.00ft LL	740.10 ft										
Medium dense brown SANDY LOAM, little gravel, wet A-2-4													
				9			13.2						
				10									
				16									
Very stiff brown CLAY LOAM, trace to little gravel, moist A-4													
				21	P		10.8						
				14		2.75							
				18									
Very dense brown SANDY GRAVEL, trace clay, saturated A-1-a													
				21	P		11.5						
				14		2.25							
Hard brown CLAY LOAM, little gravel, damp A-4													
				34	B		9.0						
				48		10.4							
				50/5"		15%							
Hard brown SILTY CLAY LOAM, trace sand, moist A-4/A-6													
				46	P		7.7						
				50/5"		4.5+							
Very dense brown SILT, trace gravel, moist A-4													
				34	B		12.0						
				50/5"		4.96							
Gus Pech GP-750 Truck Rig (#217) Rope and Cathead Hammer Rotary Wash Drill Below 12.5' End of Boring at 75.0'													
				46			14.0						
				50/5"									

LOT: BORING 72480.DPJ | BDT | GDT | 10.28.09

SPT: (N) = Sum of last two blow values in sample. (Qu) B=Bulge S=Shear P=Penetration Test Stations, Depths, Offset, and Elevations are in Feet

FILE NAME = s:\jpl\68800-6899\6842\087\mcr\cb\cadd\sheet\str\struct\08-000356-00-BR-SSB.dgn

B.M. Concrete base of wood fence post south side of road Sta. 7+40 Elev. 771.77
 Existing Structure: Steel pin connected truss (in creek) span @ 50' 14' roadway, wood floor, concrete abutments, field steel wings



GENERAL NOTES
 Class X Concrete shall be used in pile caps and curbs.
 For Item "Precast Prestressed Concrete Bridge Deck" see Special Provisions.
 Handrail shall be paid for as "Metal Plate Bridge Rail" and shall include all posts, skins, channels, bolts, nuts, and washers required for splicing and fastening to bridge. Handrail shall receive one shop coat of red lead paint and two field coats of aluminum paint. Paint shall be furnished and applied by the contractor.
 Metal Plate Bridge Rail shall be in accordance with Section 94A of the Supplemental Specifications.
 Excavation for backing shall be made before driving piles.
 The contractor shall drive one test pile as part of the permanent pile group before ordering the remainder of the piles.
 For backfill behind abutments, see Article 50.10 of the Standard Specs.
 All Timber and Hardware shall conform to Sections 58 and 125 of the Standard Specifications.
 Quantities of lumber are based on sizes and lengths shown. No additional compensation shall be allowed for waste.

TOTAL BILL OF MATERIAL

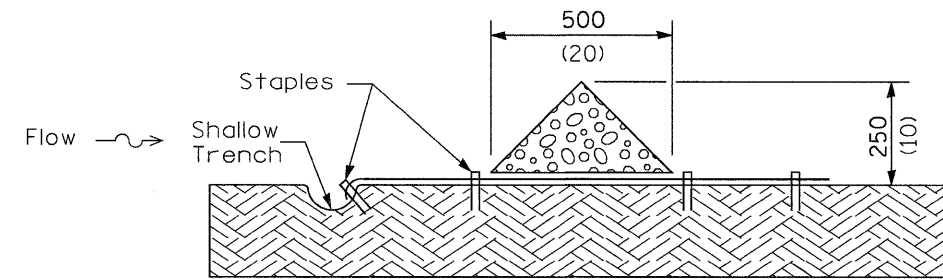
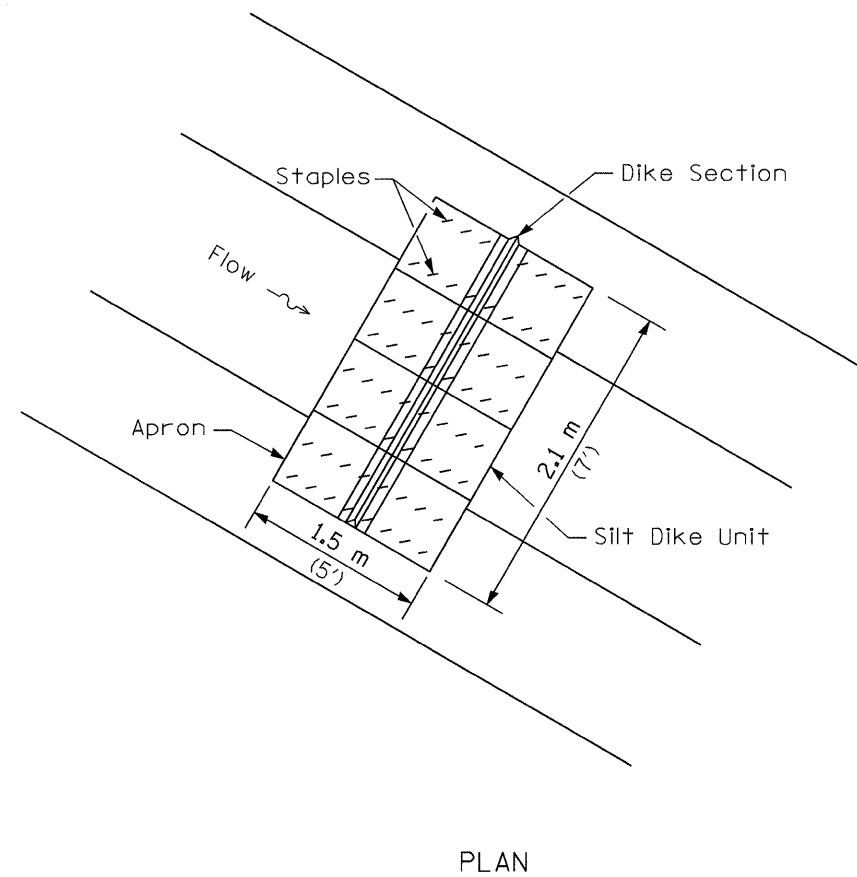
ITEM	UNIT	TOTAL
Precast Prestressed Concrete Bridge Deck	Sq. Ft.	140
Class X Concrete (14" Caps + 4" Curbs)	Cu. Yds.	7.4
Reinforcement Bars	Lbs.	2750
Metal Plate Bridge Rail	Lin. Ft.	115
Hardware	Lbs.	1280
Treated Timber	F.B.M.	150
Furnishing Cressed Piles 20.1' to 30'	Lin. Ft.	100
Driving Timber Piles (25' lg)	Lin. Ft.	175
Furnishing Metal Pile Shells	Lin. Ft.	100
Driving and Filling Shells (30' lg)	Lin. Ft.	100
Test Piles (Cressed Timber)	Each	1
Removal of Existing Structures	Each	1
Name Plates	Each	2
Channel Excavation	Cu. Yds.	10

WATERWAY INFORMATION
 Drainage Area 42,500 Acres
 Character Level, rolling, wooded, cultivated
 Present Opening 432 Sq. Ft.
 Proposed Opening 606 Sq. Ft.
 Loading H18-S12

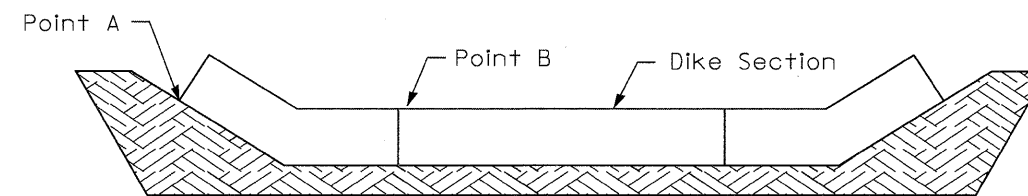
15 HILL BRIDGE
 RICHMOND TOWNSHIP
 MSHERRY COUNTY

For Information only

FILE NAME: s:\1616800-6887\1616800-6887\misc\p\used sheets\structure\055-3192-6366-018-EGPE.dgn



SIDE ELEVATION



Point A must be higher than Point B to ensure that water flows over the dike and not around the ends.

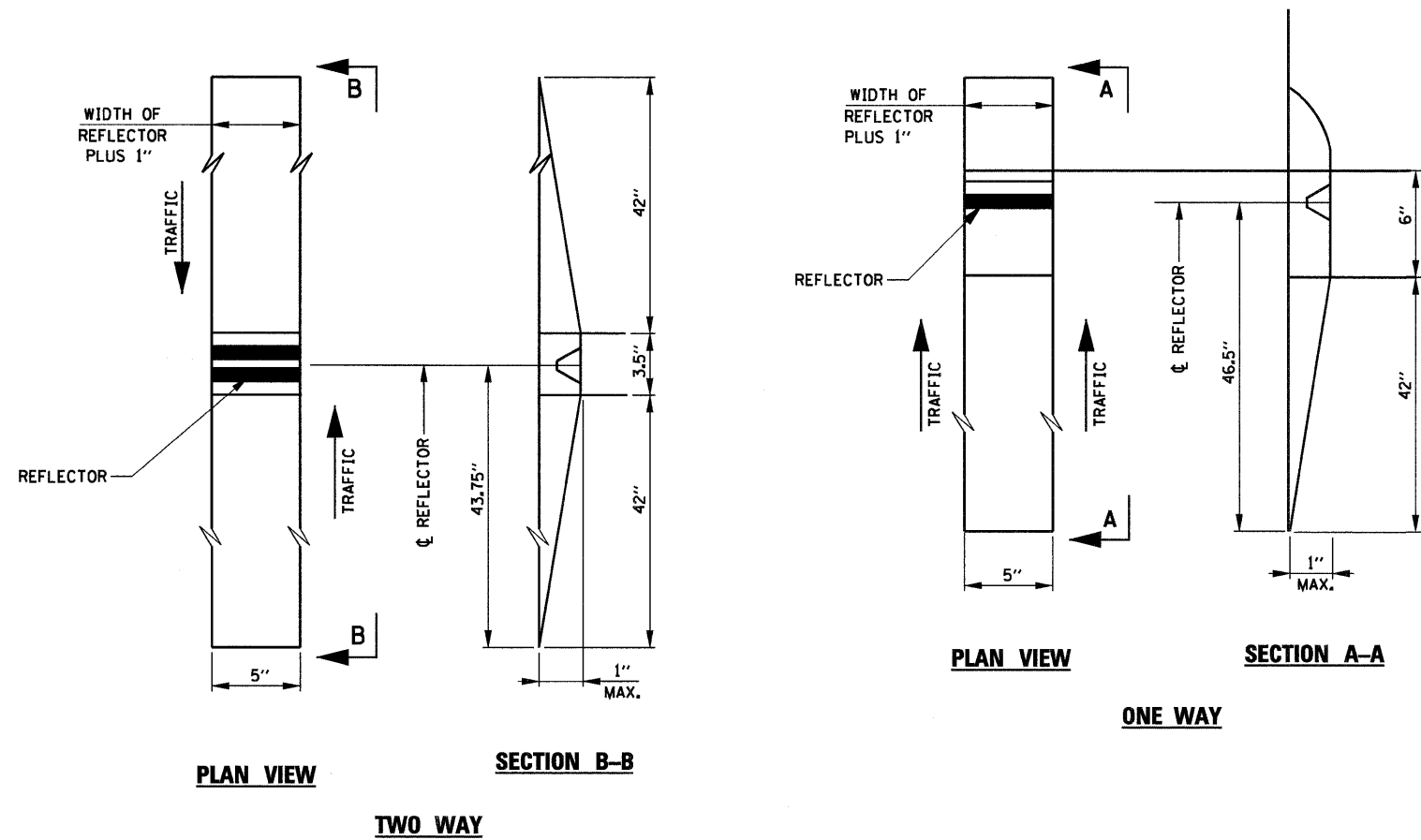
FRONT ELEVATION

URETHANE FOAM/GEOTEXTILE DITCH CHECK

NOTES

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

FILE NAME =	USER NAME = #USER#	DESIGNED -	REVISED -	McHENRY COUNTY DIVISION OF TRANSPORTATION	URETHANE FOAM/GEOTEXTILE DITCH CHECK DETAIL	F.R. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.	
#FILEL#		DRAWN -	REVISED -			21	08-00356-00-BR	McHENRY	67	49	
		CHECKED -	REVISED -			CONTRACT NO.					
		DATE -	REVISED -			SCALE: NTS	SHEET NO.	OF	SHEETS	STA.	TO STA.



RECESSED REFLECTIVE MARKERS

INSTALLATION NOTES:

1. SAWCUT IN DIMENSIONS SHOWN.
2. SAWCUT AREAS TO BE DRY AND FREE OF MATERIAL THAT ADVERSELY AFFECTS THE ADHESIVE BAND.
3. INSTALL THE REFLECTOR WITH AN APPROVED TWO-COMPONENT EPOXY ADHESIVE. EPOXY SHOULD NOT OBSCURE OR BLOCK THE LENS.
4. INSTALL TOP OF REFLECTOR 1/2 TO 1/4 INCH BELOW THE PAVEMENT SURFACE.
5. REFLECTOR SHALL BE 3M SERIES 290.

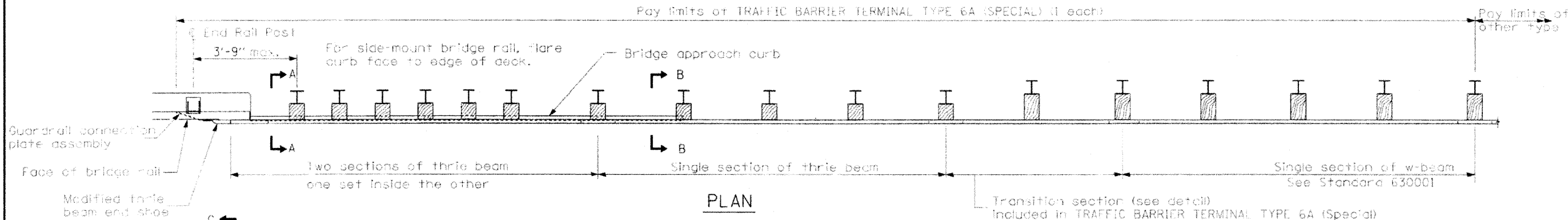
GENERAL NOTES:

1. INSTALLATION SHALL CONFORM TO IDOT HIGHWAY STANDARD 781001-02 (OR LATEST) FOR MARKER PLACEMENT.
2. IDOT STANDARD 781001-02 SHALL BE MODIFIED TO REFLECT IN RECESSED PAVEMENT MARKERS INSTEAD OF RAISED PAVEMENT MARKERS.

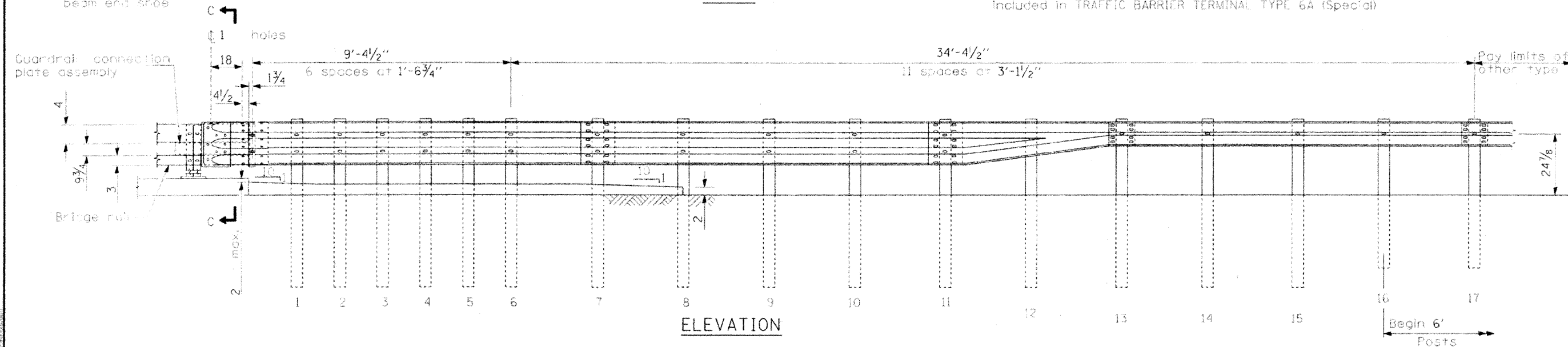
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FILEL	PLOT SCALE = #SCALE#	DRAWN -	REVISED -					21	08-00356-00-BR	MCHENRY	67	50
	PLOT DATE = #DATE#	CHECKED -	REVISED -		SCALE:	SHEET NO.	OF	SHEETS	STA.	TO STA.	FED. ROAD DIST. NO.	ILLINOIS FED. AID PROJECT
		DATE -	REVISED -								CONTRACT NO. 63666	

MCHENRY COUNTY
DIVISION OF TRANSPORTATION

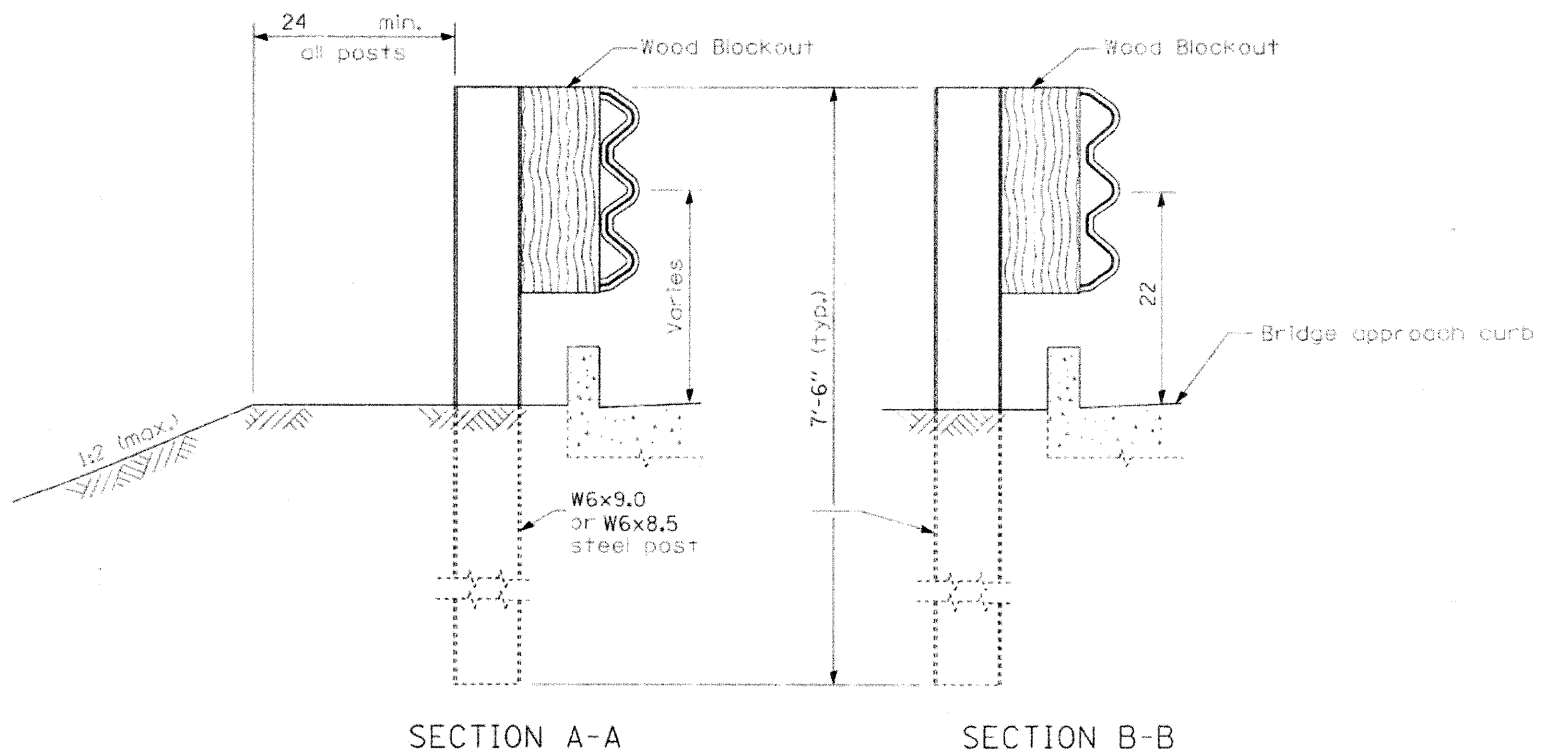
Pay limits of TRAFFIC BARRIER TERMINAL TYPE 6A (SPECIAL) (1 each)



PLAN



ELEVATION



SECTION A-A

SECTION B-B

GENERAL NOTES

See Standard 630001 for details of guardrail not shown.

Thrie beam rail shall be bolted to block-out at all posts.

All slope ratios are expressed as units of vertical displacement to units of horizontal displacement (V:H).

All dimensions are in inches unless otherwise shown.

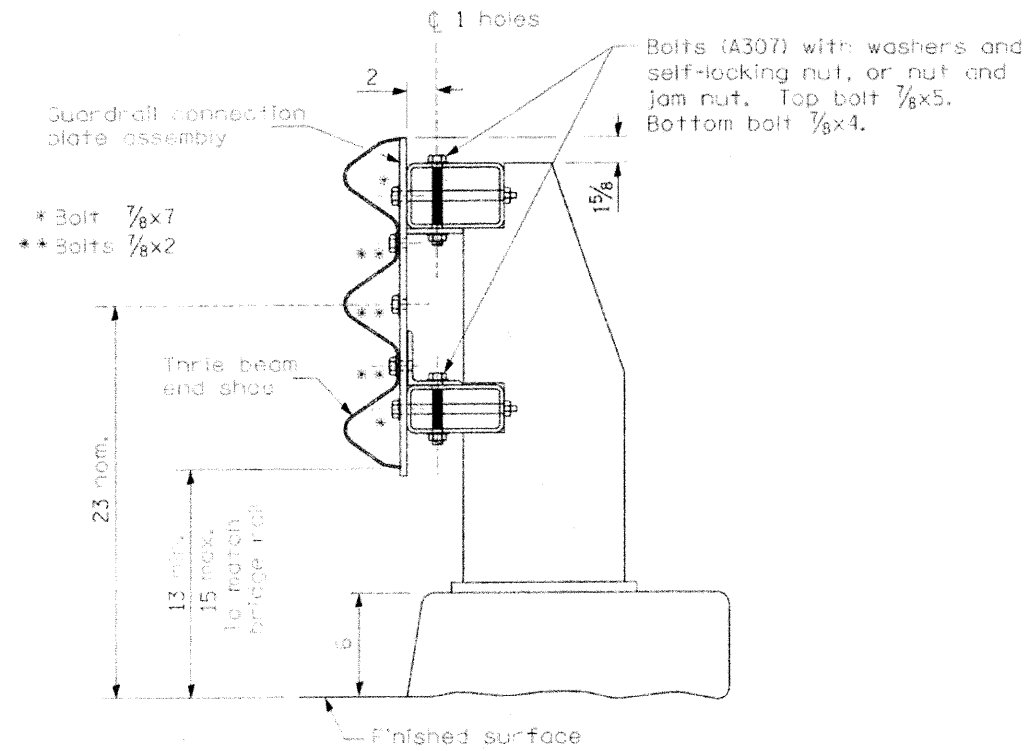
TRAFFIC BARRIER TERMINAL
TYPE 6A (SPECIAL)
STRUCTURE NO. 056-3192

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CHECKED	AS
DRAWN	RCD
CHECKED	BLB

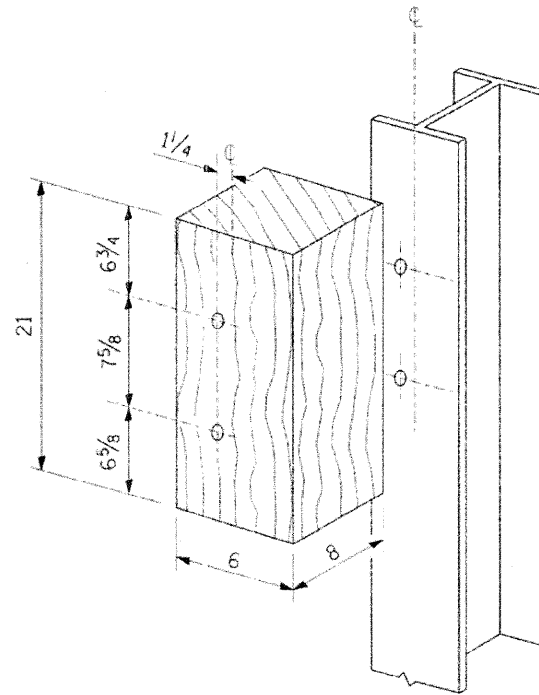
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	21	08-00356-00-BR	MCHENRY	67	52
CONTRACT NO. 63666					
FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT BROS-0001(683)					

CONSULT THE DESIGNER'S OFFICE FOR THE LATEST REVISIONS TO THIS DRAWING. THE DESIGNER'S OFFICE IS RESPONSIBLE FOR THE ACCURACY OF THE INFORMATION PROVIDED. THE USER OF THIS DRAWING IS RESPONSIBLE FOR OBTAINING ALL NECESSARY PERMITS AND FOR VERIFYING THE ACCURACY OF THE INFORMATION PROVIDED. THE USER OF THIS DRAWING IS RESPONSIBLE FOR OBTAINING ALL NECESSARY PERMITS AND FOR VERIFYING THE ACCURACY OF THE INFORMATION PROVIDED.

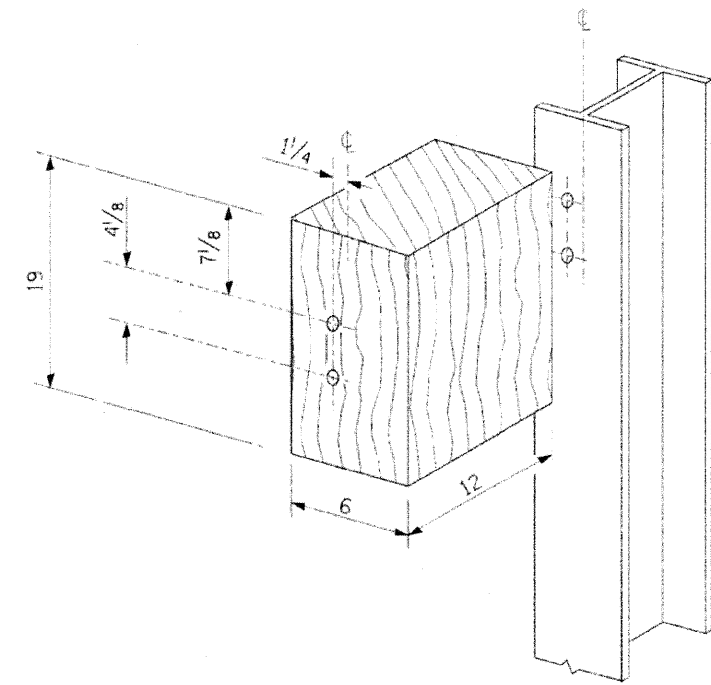
MCHENRY COUNTY
DIVISION OF TRANSPORTATION



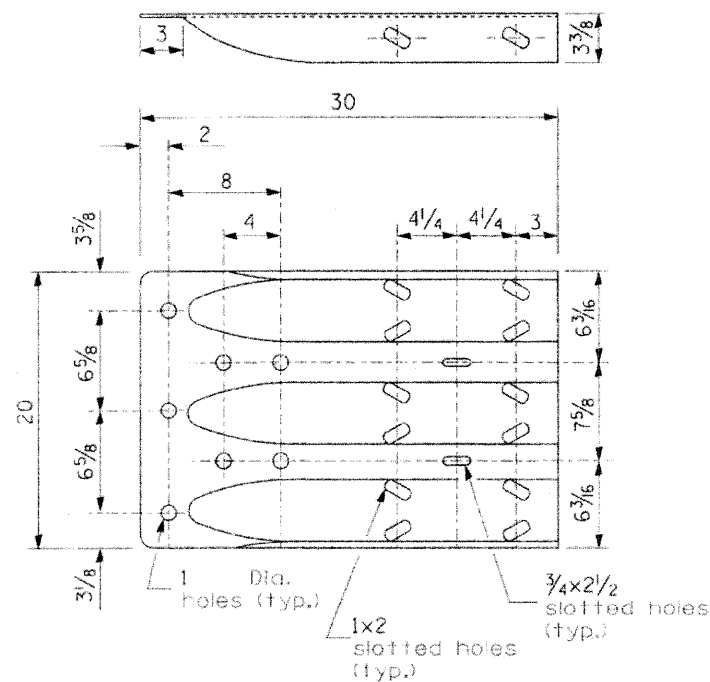
SECTION C-C



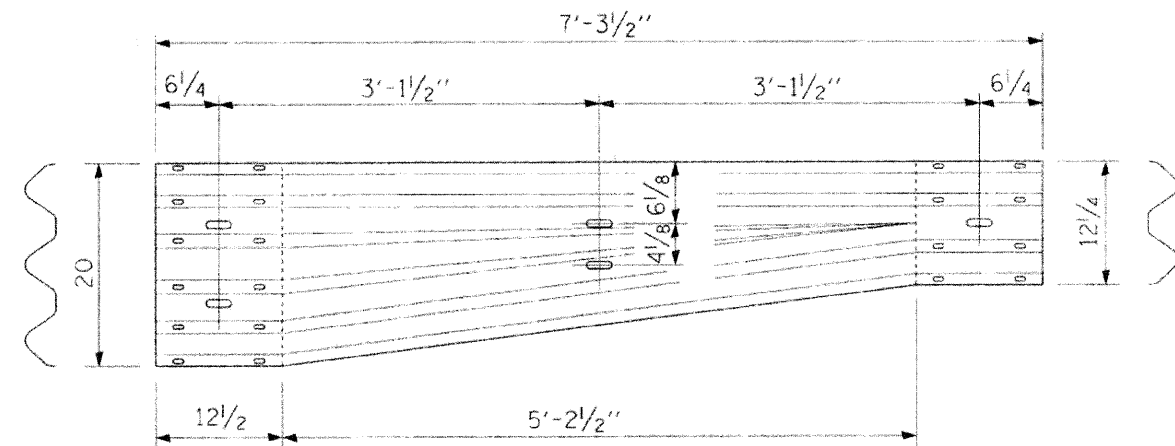
POSTS 1-11 WOOD BLOCKOUT DETAIL



POST 12 WOOD BLOCKOUT DETAIL
(See Standard 630001 for post 13-17 blockouts.)



MODIFIED THRIE BEAM END SHOE DETAIL



TRANSITION SECTION
(10 gauge rail element)

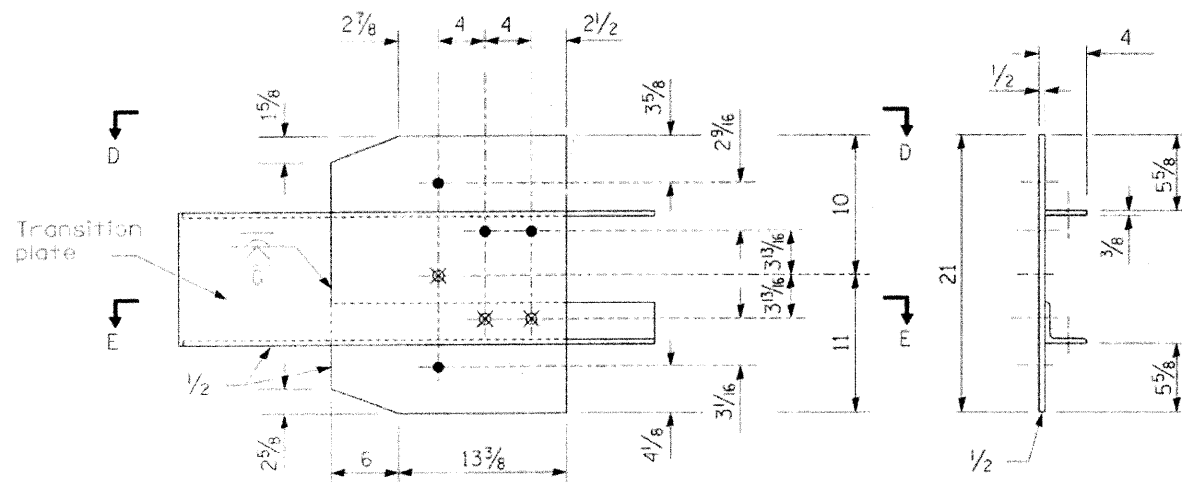
TRAFFIC BARRIER TERMINAL
TYPE 6A (SPECIAL)
STRUCTURE NO. 056-3192

DESIGNED	BLB
CHECKED	AS
DRAWN	BCD
CHECKED	BLB

SHEET NO. 2 3 SHEETS	TR	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	21	08-00356-00-BR	MCHENRY	67	53
			CONTRACT NO. 63666		
FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT BROS 0001(683)					

CONSULT: COUNTY ENGINEER, MCHENRY COUNTY, ILLINOIS
 STATE OF ILLINOIS - PROFESSIONAL ENGINEER
 LICENSE NO. 197 50522
 MCHENRY COUNTY, ILLINOIS
 PROJECT: TRAFFIC BARRIER TERMINAL TYPE 6A (SPECIAL) STRUCTURE NO. 056-3192
 DATE: 08/08/00

MCHENRY COUNTY
DIVISION OF TRANSPORTATION

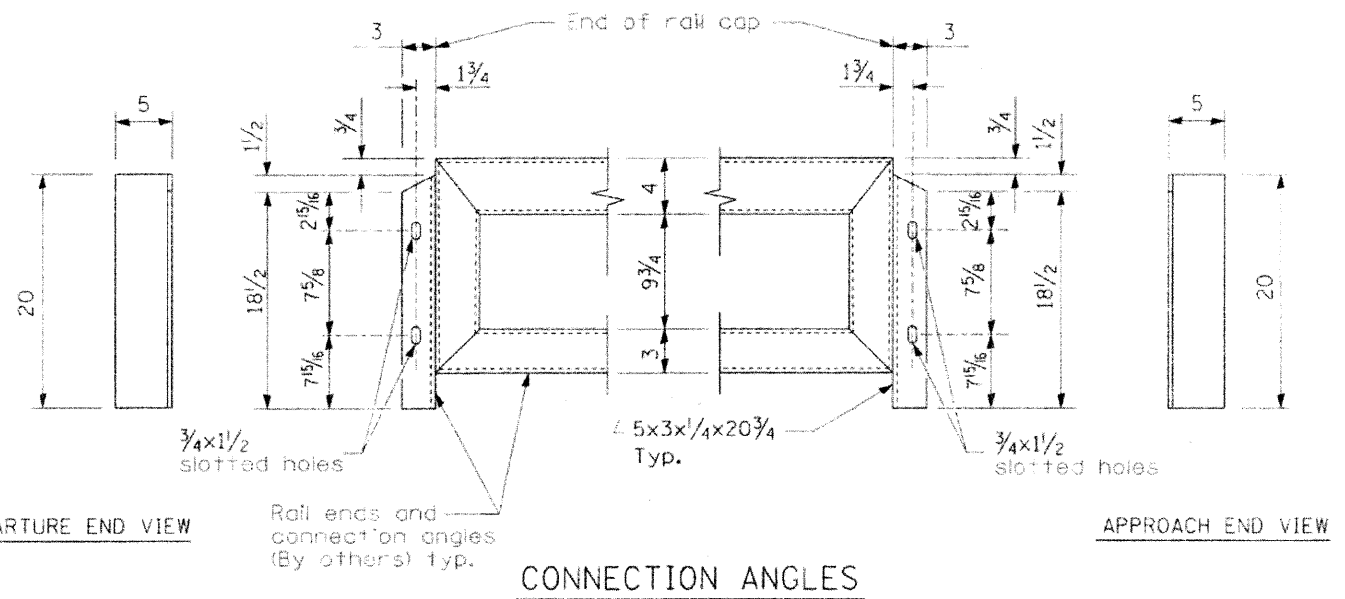
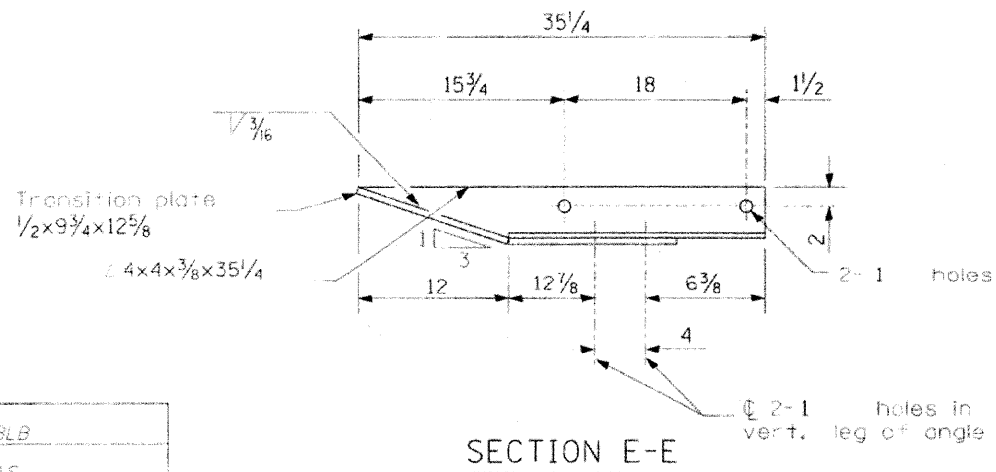
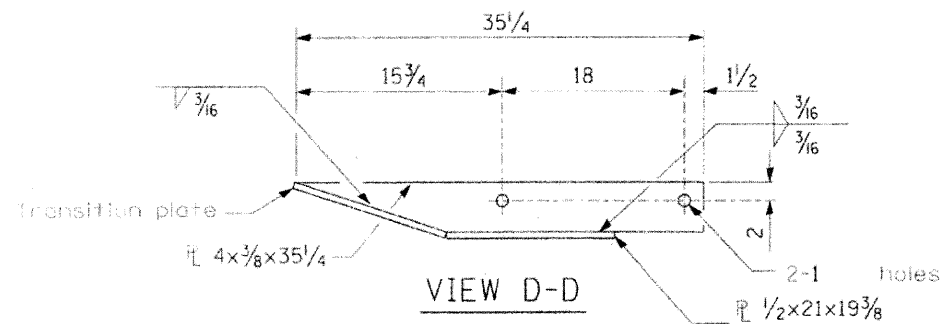


- ϕ 4-1 holes for 7/8 H.S. bolts and nuts
- ⊗ Drill and tap 3 holes for 7/8 H.S. bolts.

LEGEND

GUARDRAIL CONNECTION PLATE ASSEMBLY DETAILS

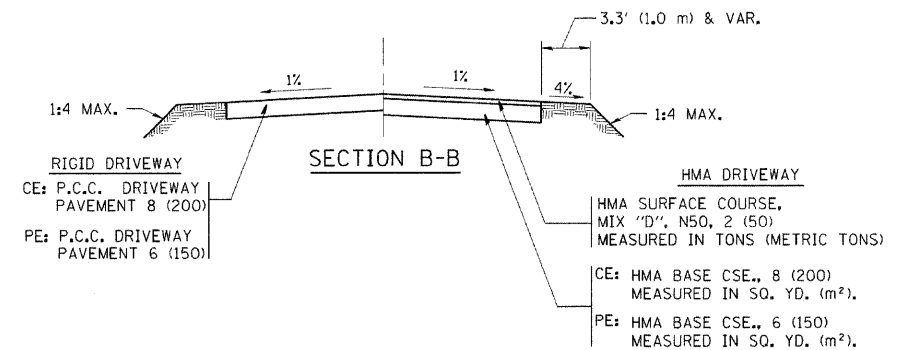
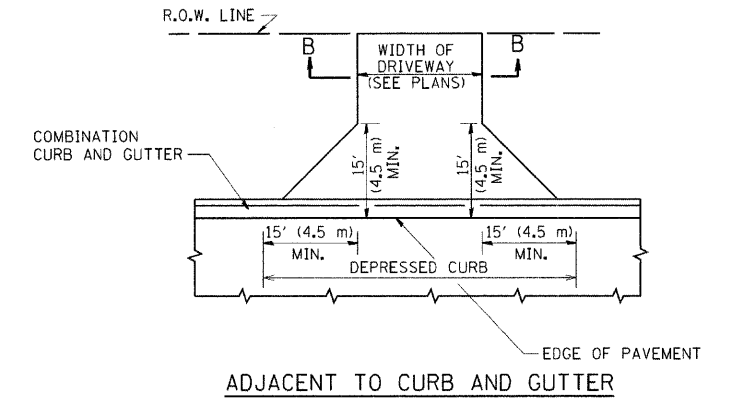
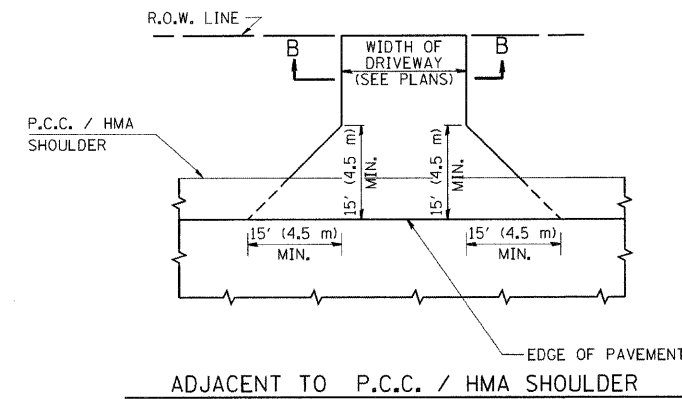
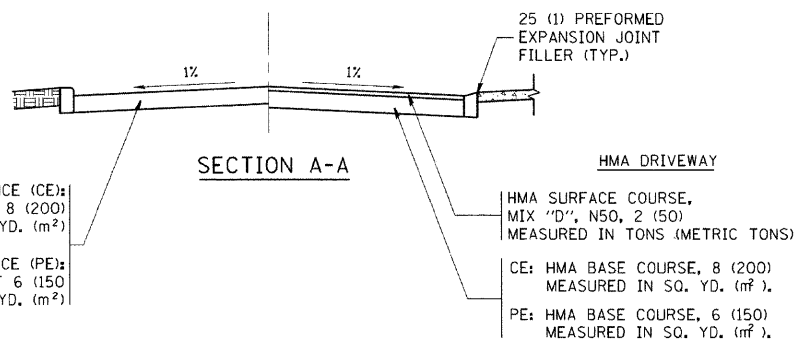
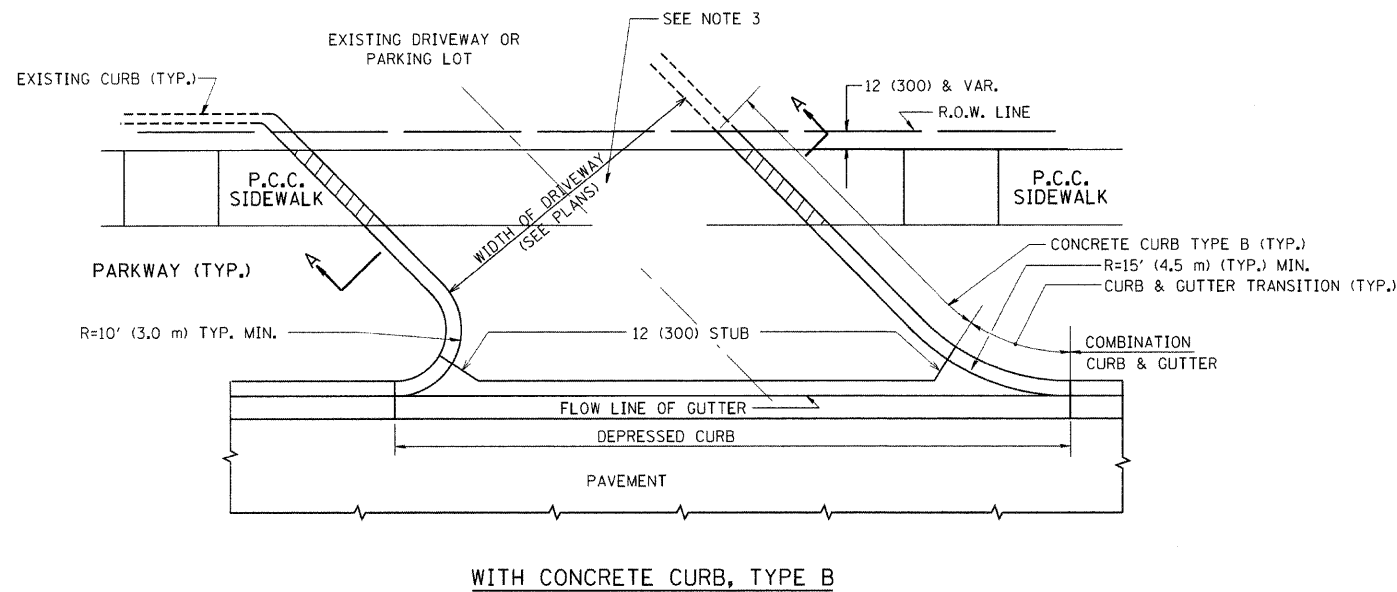
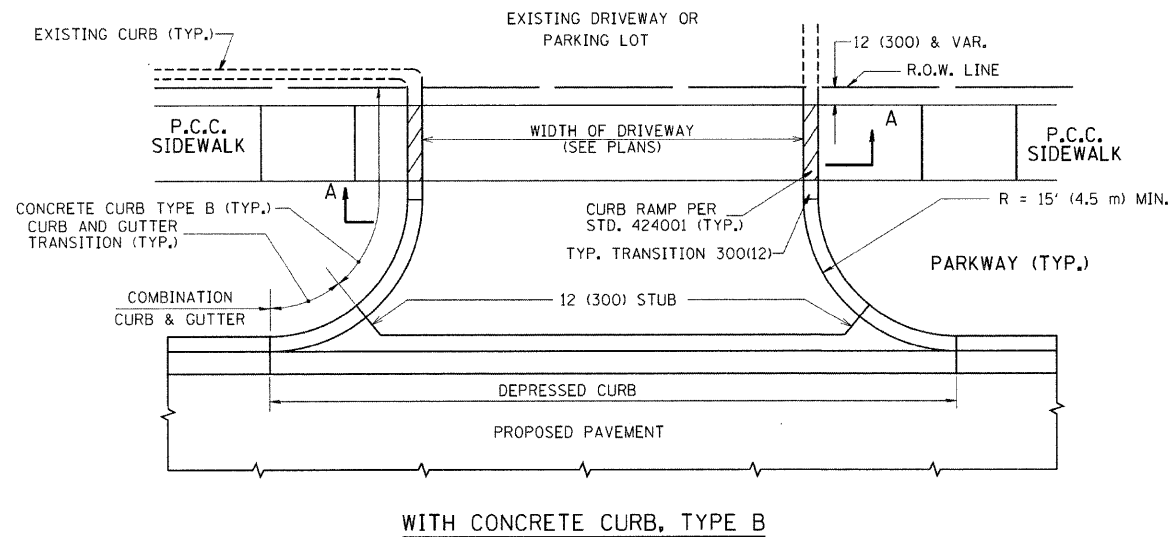
(Mirror for opposite end)



DESIGNED	BLB
CHECKED	AS
DRAWN	BCD
CHECKED	BLB

TRAFFIC BARRIER TERMINAL
TYPE 6A (SPECIAL)
STRUCTURE NO. 056-3192

SHEET NO. 3 3 SHEETS	TR	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	21	08-00356-00-BR	MCHENRY	67	54
CONTRACT NO. 63666					
FED. ROAD DIST. NO. 1 ILLINOIS			FED. AID PROJECT BRS-00D1(683)		



RURAL FIELD ENTRANCE (FE)

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

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

GENERAL NOTES:

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

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

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

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

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

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

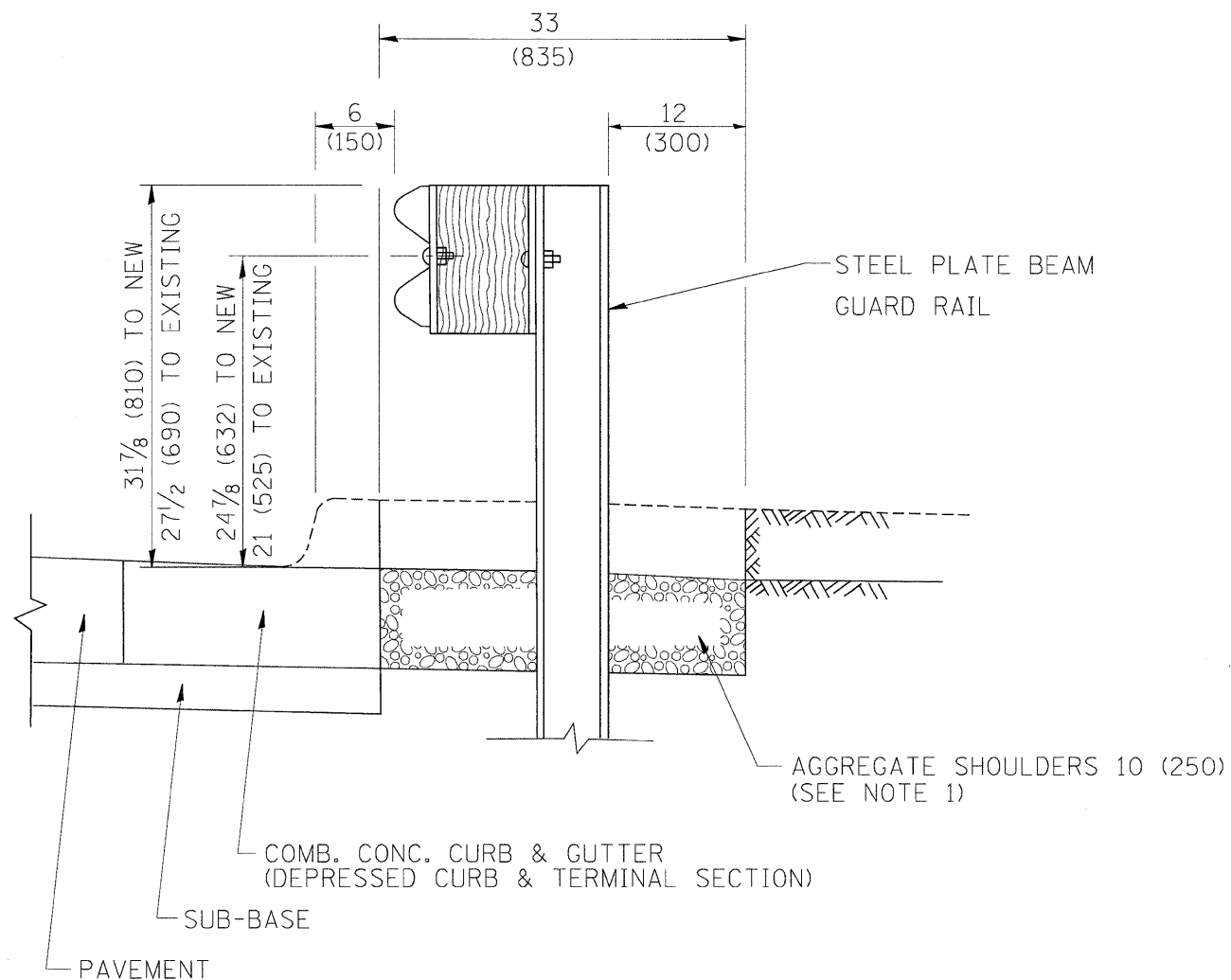
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		CHECKED -	REVISED - R. BORO 06-11-08
		DATE - 11-04-95	REVISED - R. BORO 09-06-11

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

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

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

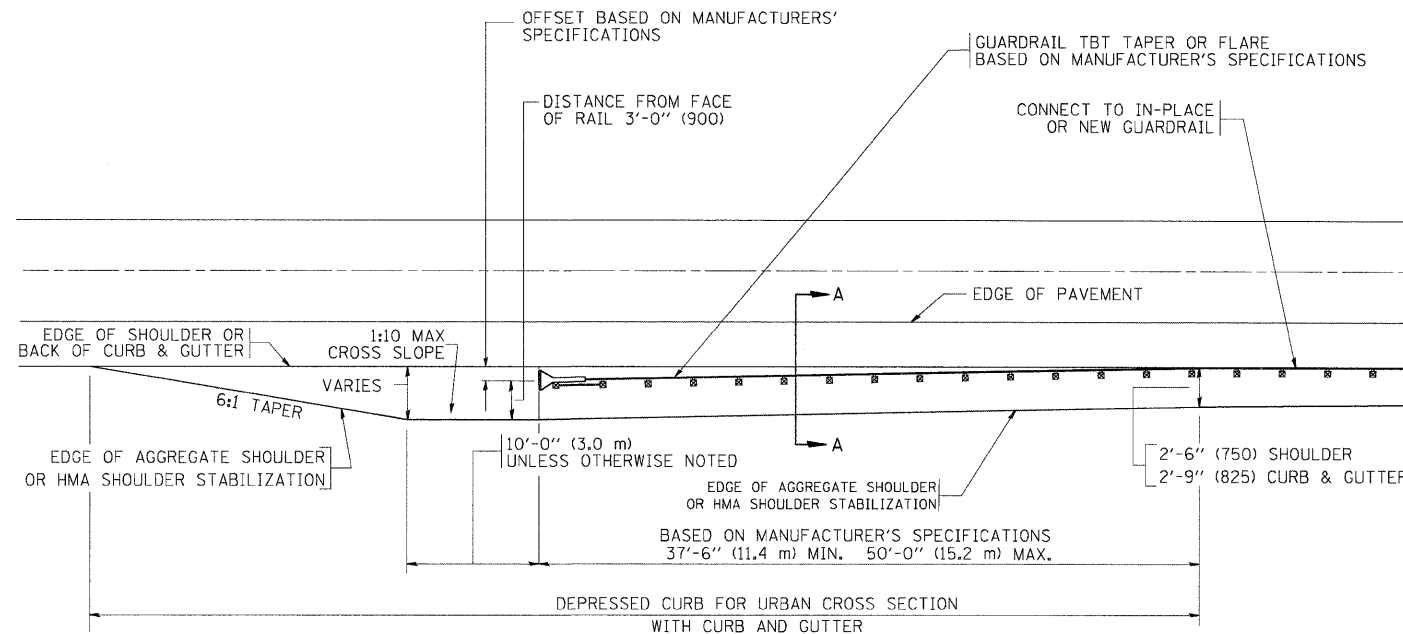
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21	08-00356-00-BR	MCHENRY	67	55
BD0156-07 (BD-01)			CONTRACT NO. 63666	
FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT				



SECTION A-A

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

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



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

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

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

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

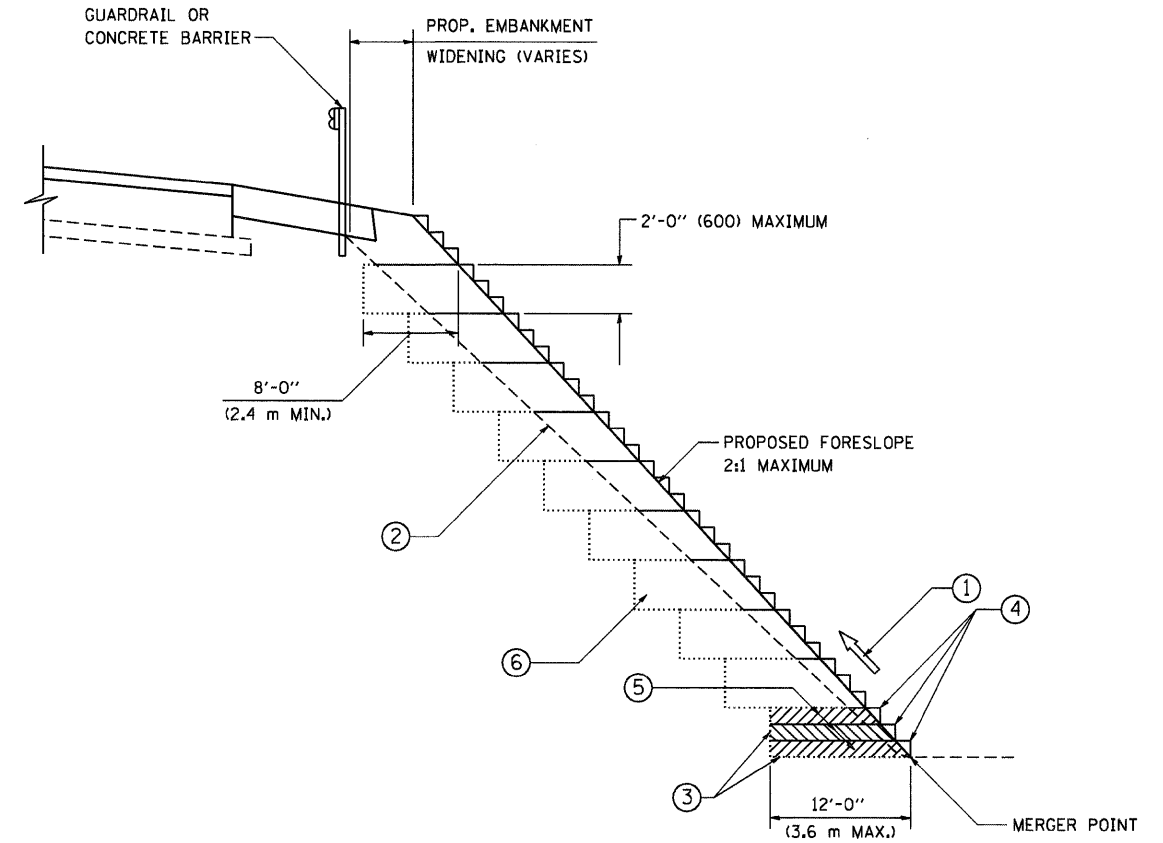
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	PLOT DATE = 9/21/2009	DATE - 09-22-90	REVISED - R. BORO 09-14-2009

STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION

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

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

TR. RTE. 21	SECTION 08-00356-00-BR	COUNTY MCHENRY	TOTAL SHEETS 67	SHEET NO. 56
BD600-10 (BD 34)		CONTRACT NO. 63666		
FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT				



**TYPICAL BENCHING DETAIL
FOR EMBANKMENT**

NOTES:

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

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

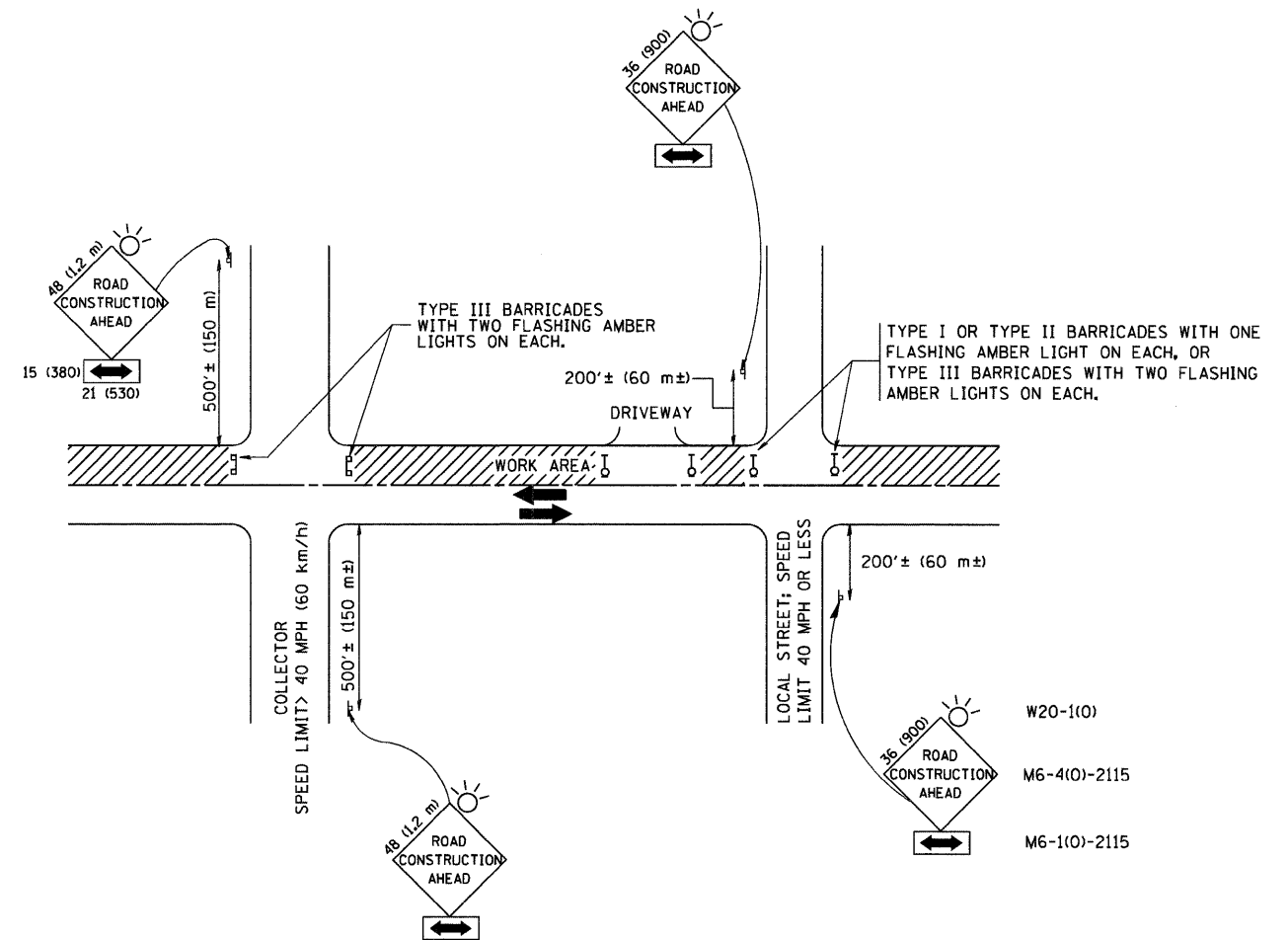
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		CHECKED - S.E.B.	REVISED -
		DATE - 06-16-04	REVISED -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**BENCHING DETAIL
FOR EMBANKMENT WIDENING**

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

F.R.D. RTE. 21	SECTION 08-00356-00-BR	COUNTY MCHENRY	TOTAL SHEETS 67	SHEET NO. 57
BD-51			CONTRACT NO. 63666	
FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT				



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

NOTES:

A. FOR NO LANE RESTRICTION ON THE SIDE ROAD OR DRIVEWAYS

- 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:
 - ONE ROAD CONSTRUCTION AHEAD SIGN 36 x 36 (900x900) WITH A FLASHER AND FLAG MOUNTED ON IT APPROXIMATELY 200' (60 m) IN ADVANCE OF THE MAIN ROUTE.
 - 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.
- SIDE ROAD WITH A SPEED LIMIT GREATER THAN 40 MPH (60 km/h) AS SHOWN ON THE DRAWING AND AS DIRECTED BY THE ENGINEER:
 - 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.
 - 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.
- 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).

B. FOR A LANE CLOSURE ON A SIDE ROAD OR DRIVEWAY:

USE APPLICABLE PORTIONS OF THE TYPICAL APPLICATION OF TRAFFIC CONTROL DEVICES (STD. 701501, STD. 701606 OR THE APPROPRIATE STANDARD). THE SPACING OF SIGNS AND BARRICADES SHALL BE ADJUSTED FOR FIELD CONDITIONS AS DIRECTED BY THE ENGINEER. THE DIRECTIONAL ARROW SHALL BE COVERED OR REMOVED WHEN NO LONGER CONSISTENT WITH THE SIDE ROAD LANE CLOSURE.

C. ADVANCE WARNING SIGNS ARE TO BE OMITTED ON DRIVEWAY UNLESS OTHERWISE NOTED.

D. THE TRAFFIC CONTROL AND PROTECTION FOR SIDE ROADS, INTERSECTIONS, AND DRIVEWAYS SHALL BE INCIDENTAL TO THE COST OF SPECIFIED TRAFFIC CONTROL STANDARDS OR ITEMS.

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

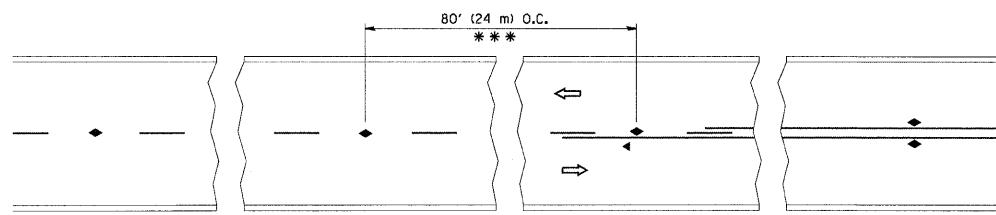
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		CHECKED -	REVISED - A. HOUSEH 10-15-96
		DATE - 06-89	REVISED - T. RAMMACHER 01-06-00

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

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

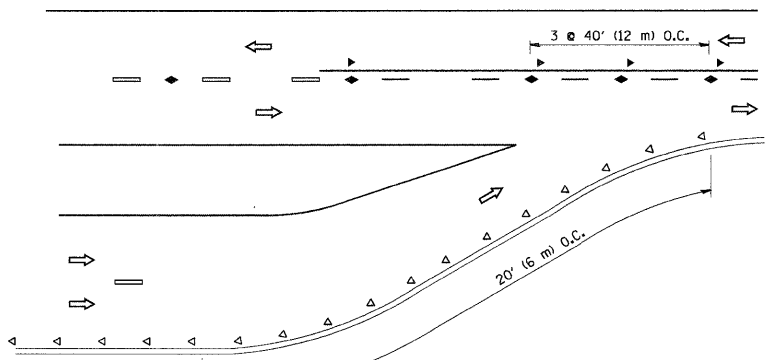
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FILE	SECTION	COUNTY	TOTAL	SHEET
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TC-10			CONTRACT NO. 63666	
FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT				

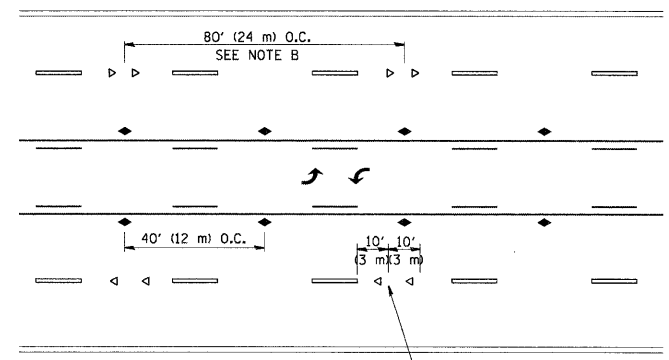


*** REDUCE TO 40' (12 m) O.C. ON CURVES WITH POSTED OR ADVISORY SPEED 45 M.P.H. (70 km/h) OR LESS.

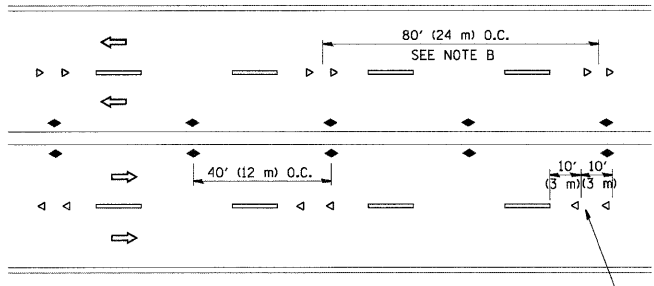
TWO-LANE/TWO-WAY



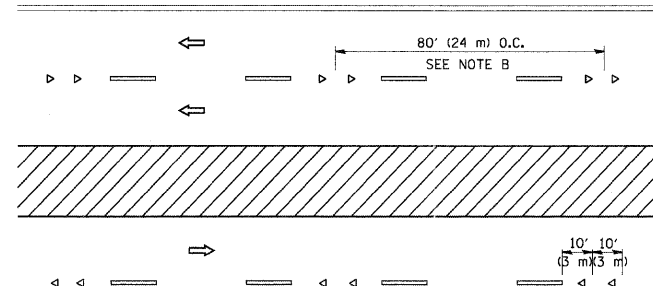
LANE REDUCTION TRANSITION



TWO-WAY LEFT TURN



MULTI-LANE/UNDIVIDED



MULTI-LANE/DIVIDED

GENERAL NOTES

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

SYMBOLS

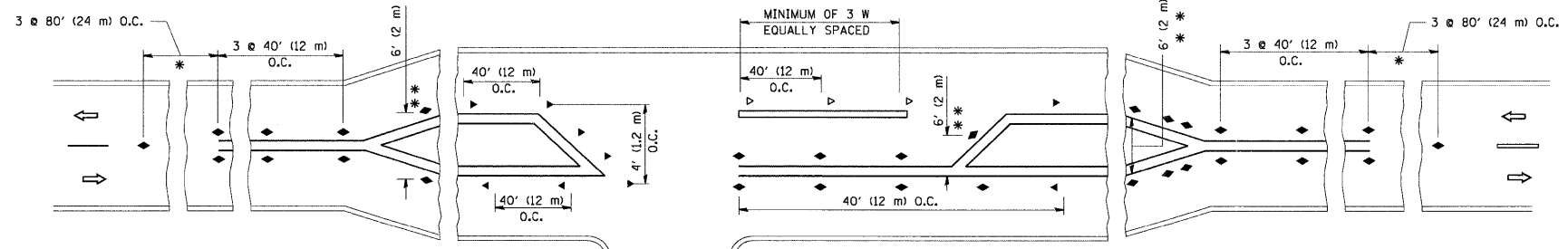
- YELLOW STRIPE
- WHITE STRIPE
- ◀ ONE-WAY AMBER MARKER
- ◁ ONE-WAY CRYSTAL MARKER (W/O)
- ◆ TWO-WAY AMBER MARKER

LANE MARKER NOTES

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

DESIGN NOTES

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

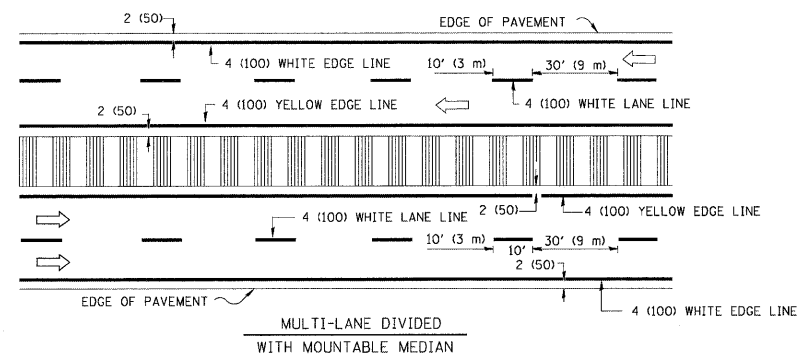
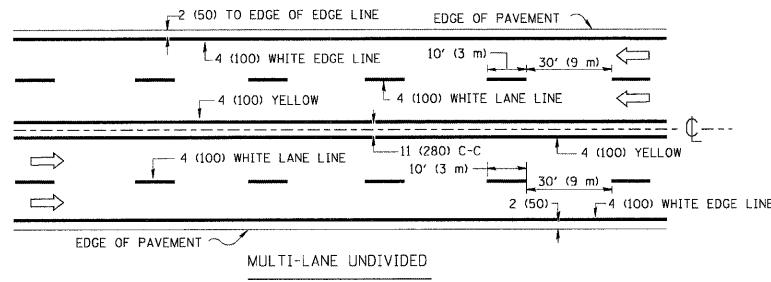
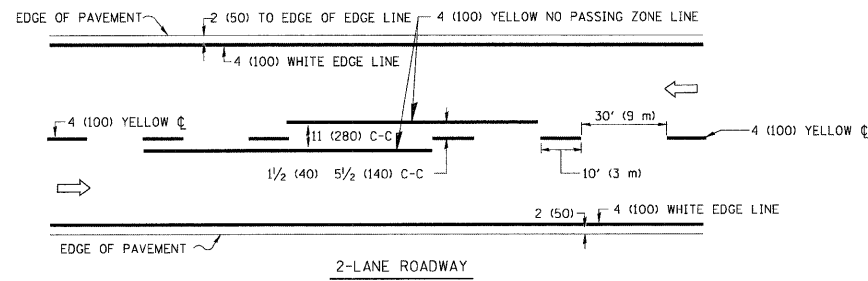


LEFT TURN

* SEE TWO-LANE/TWO-WAY WHERE MARKERS CONTINUE
 ** WHERE THE MEDIAN WIDTH IS 6' (2 m) OR LESS USE TWO-WAY MARKERS.

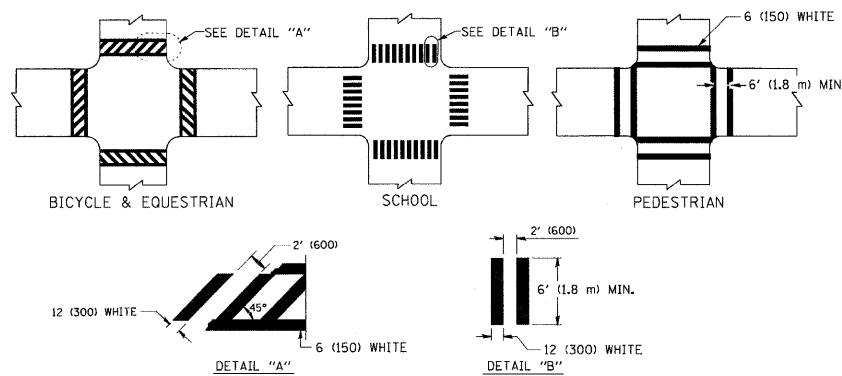
All dimensions are in inches (millimeters) unless otherwise shown.

FILE NAME = c:\pwork\pwork\lsga\d8188315\td11.dgn	USER NAME = lsga	DESIGNED -	REVISED - T. RAMMACHER 09-19-94	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	TYPICAL APPLICATIONS RAISED REFLECTIVE PAVEMENT MARKERS (SNOW-PLOW RESISTANT)			FAR RTE. 21	SECTION 08-00356-00-BR	COUNTY MCHENRY	TOTAL SHEETS 67	SHEET NO. 59
	PLOT SCALE = 50.000' / IN.	DRAWN -	REVISED - T. RAMMACHER 03-12-99		SCALE: NONE	SHEET NO. 1 OF 1 SHEETS	STA.	TO STA.	TC-11		CONTRACT NO. 63666	
	PLOT DATE = 3/2/2011	CHECKED -	REVISED - T. RAMMACHER 01-06-00		FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT							
		DATE -	REVISED - C. JUCIUS 09-09-09									

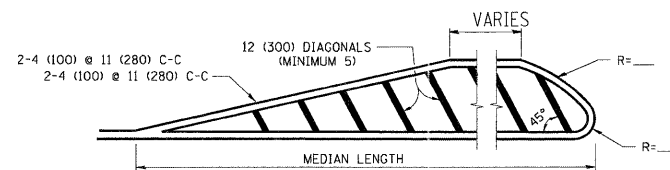
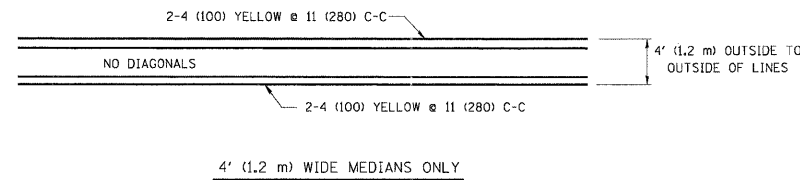


NOTE: MEDIANS WITH BARRIER CURB DO NOT REQUIRE AN EDGE LINE

TYPICAL LANE AND EDGE LINE MARKING

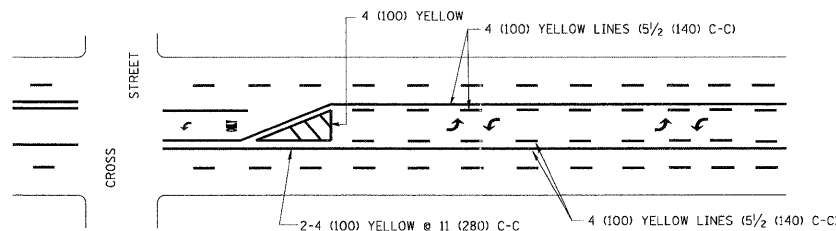


TYPICAL CROSSWALK MARKING

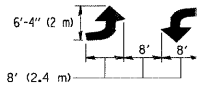


FOR MEDIAN LENGTHS WHERE DIAGONAL SPACING CANNOT BE ATTAINED, USE 5 (FIVE) EQUALLY SPACED DIAGONAL LINES.
 DIAGONAL LINE SPACING: 50' (15 m) C-C (LESS THAN 30MPH (50 km/h))
 75' (25 m) C-C 30MPH (50 km/h) TO 45MPH (70 km/h)
 150' (45 m) C-C (MORE THAN 45MPH (70 km/h))

MEDIANS OVER 4' (1.2 m) WIDE

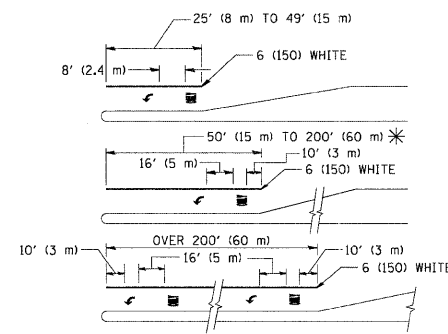


A MINIMUM OF TWO PAIRS OF TURN ARROWS SHALL BE USED, WHITE IN COLOR. ADDITIONAL PAIRS SHALL BE PLACED AT 200' (60 m) TO 300' (90 m) INTERVALS.



MEDIAN WITH TWO-WAY LEFT TURN LANE

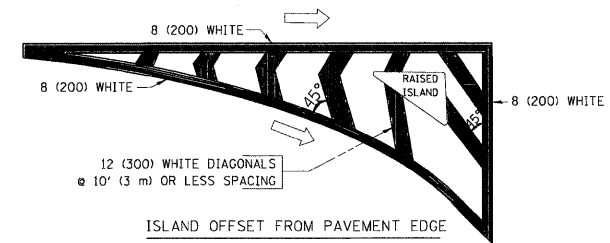
TYPICAL PAINTED MEDIAN MARKING



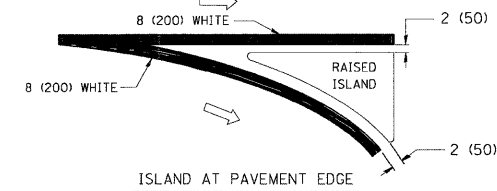
FULL SIZE LETTERS 8' (2.4 m) AND ARROWS SHALL BE USED.
 * TURN LANES IN EXCESS OF 400' (120 m) IN LENGTH MAY HAVE AN ADDITIONAL SET OF ARROW - "ONLY" INSTALLED MIDWAY BETWEEN THE OTHER TWO SETS OF ARROW - "ONLY".

TYPICAL LEFT (OR RIGHT) TURN LANE

TYPICAL TURN LANE MARKING



ISLAND OFFSET FROM PAVEMENT EDGE



ISLAND AT PAVEMENT EDGE

TYPICAL ISLAND MARKING

TYPE OF MARKING	WIDTH OF LINE	PATTERN	COLOR	SPACING / REMARKS
CENTERLINE ON 2 LANE PAVEMENT	4 (100)	SKIP-DASH	YELLOW	10' (3 m) LINE WITH 30' (9 m) SPACE
CENTERLINE ON MULTI-LANE UNDIVIDED PAVEMENT	2 @ 4 (100)	SOLID	YELLOW	11 (280) C-C
NO PASSING ZONE LINES: FOR ONE DIRECTION 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 MOUNTABLE MEDIANS IN YELLOW; EDGE LINES ARE NOT USED NEXT TO BARRIER CURB
TURN LANE MARKINGS	6 (150) LINE; FULL SIZE LETTERS & SYMBOLS (8' (2.4m))	SOLID	WHITE	SEE TYPICAL TURN LANE MARKING DETAIL
TWO WAY LEFT TURN MARKING	2 @ 4 (100) EACH DIRECTION 8' (2.4m) LEFT ARROW	SKIP-DASH AND SOLID IN PAIRS	YELLOW WHITE	10' (3 m) LINE WITH 30' (9 m) SPACE FOR SKIP-DASH; 5 1/2 (140) C-C BETWEEN SOLID LINE AND SKIP-DASH LINE SEE TYPICAL TWO-WAY LEFT TURN MARKING DETAIL
CROSSWALK LINES (PEDESTRIAN) A. DIAGONALS (BIKE & EQUESTRIAN) B. LONGITUDINAL BARS (SCHOOL)	2 @ 6 (150) 12 (300) @ 45° 12 (300) @ 90°	SOLID SOLID SOLID	WHITE WHITE WHITE	NOT LESS THAN 6' (1.8 m) APART 2' (600) APART 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" 15' (4.5 m) MIN. LINE FOR "X" LETTERS: 16 (400)	SOLID	WHITE	SEE STATE STANDARD 780001 AREA OF: "R"=3.6 SQ. FT. (0.33 m²) EACH "X"=54.0 SQ. FT. (5.0 m²)
SHOULDER DIAGONALS	12 (300) @ 45°	SOLID	WHITE - RIGHT YELLOW - LEFT	50' (15 m) C-C (LESS THAN 30MPH (50 km/h)) 75' (25 m) C-C (30 MPH (50 km/h) TO 45MPH (70 km/h)) 150' (45 m) C-C (OVER 45MPH (70 km/h))

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

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

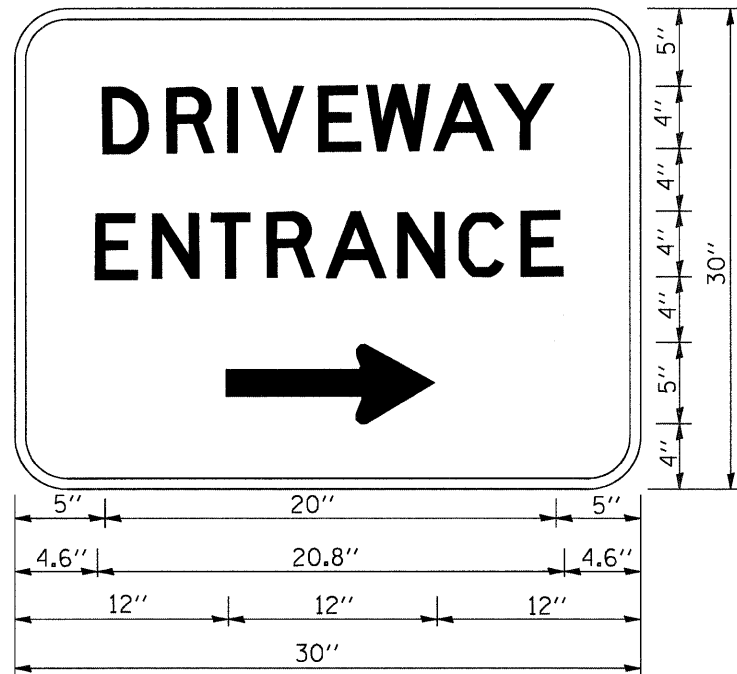
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**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**DISTRICT ONE
TYPICAL PAVEMENT MARKINGS**

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

F.R.T.E. 21	SECTION 08-00356-00-BR	COUNTY MCHENRY	TOTAL SHEETS 67	SHEET NO. 60
TC-13		CONTRACT NO. 63666		
FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT				



3.0" RADIUS, 0.5" BORDER, WHITE ON GREEN; REFLECTORIZED
 "DRIVEWAY" D; "ENTRANCE" D; STANDARD ARROW CUSTOM 12.0" x 5.0"

NOTES:

1. HALF OF THE SIGNS WILL REQUIRE A LEFT HAND FACING ARROW.
2. TWO SIGNS SHALL BE USED AT EACH COMMERCIAL ENTRANCE PLACED BACK-TO-BACK; ONE WITH A RIGHT HAND ARROW (SHOWN) SHALL BE PLACED ON THE NEAR RIGHT SIDE THE DRIVEWAY AND ONE WITH A LEFT HAND ARROW SHALL BE PLACED ON THE FAR LEFT SIDE OF THE DRIVEWAY.
3. SIGNS TO BE PAID FOR AS ITEM "TEMPORARY INFORMATION SIGNING".

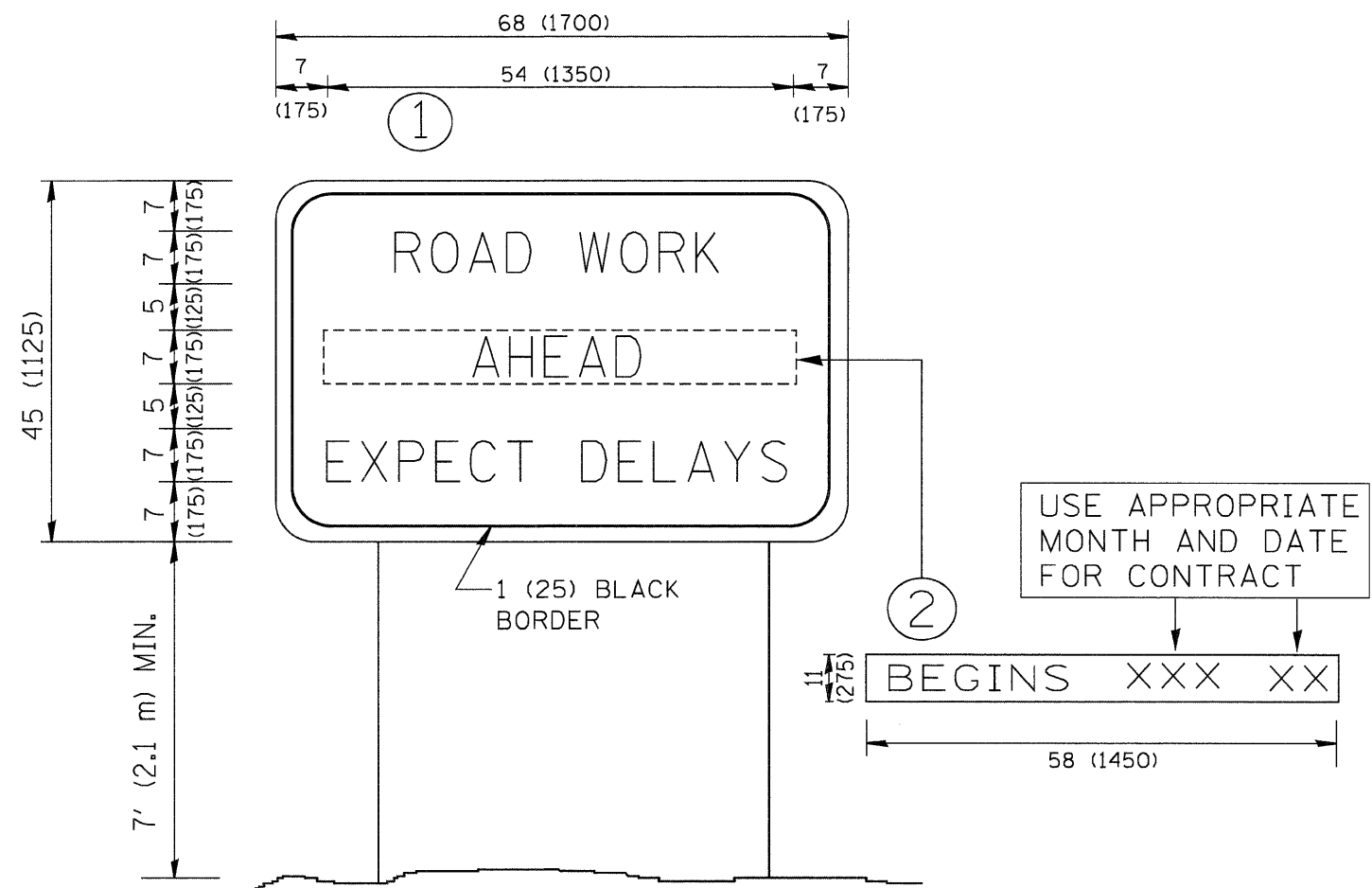
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**STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION**

DRIVEWAY ENTRANCE SIGNING

FED. RTE. 21	SECTION 08-00356-00-BR	COUNTY MCHENRY	TOTAL SHEETS 67	SHEET NO. 61
TC-26			CONTRACT NO. 63666	
FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT				

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



NOTES:

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

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

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		DESIGNED - CHECKED -	REVISED - REVISED -
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**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**ARTERIAL ROAD
INFORMATION SIGN**

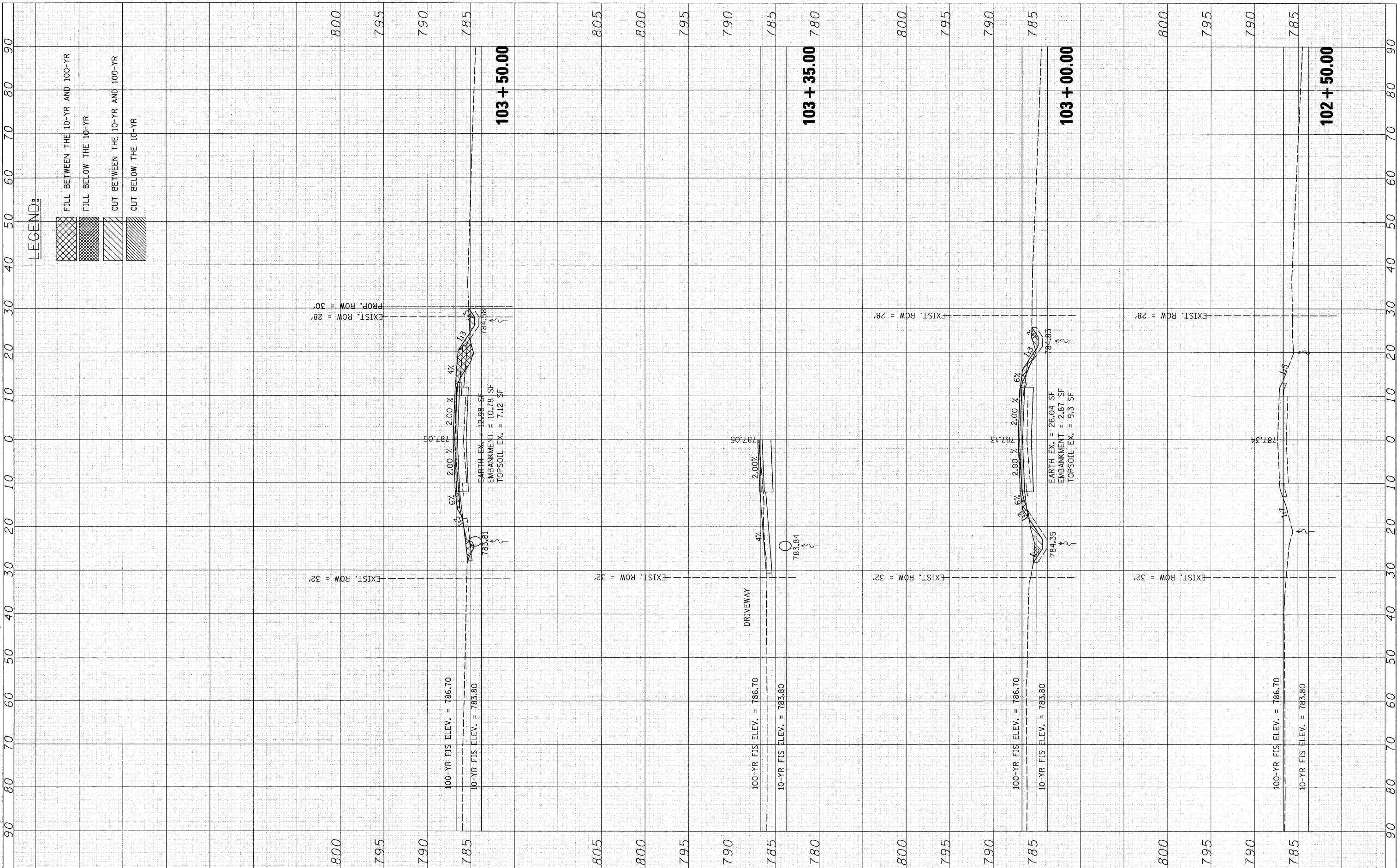
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TC-22			CONTRACT NO. 63666	
FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT				

BY	DATE
SURVEYED	PLOTTED
NOTE BOOK	TEMPLATE
AREAS CHECKED	AREAS CHECKED
NO.	

BY	DATE
SURVEYED	PLOTTED
NOTE BOOK	TEMPLATE
AREAS CHECKED	AREAS CHECKED
NO.	

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1170 SOUTH HOUBOLT ROAD
JOLIET, ILLINOIS 60431
(815) 744-4200
STRAND ASSOCIATES

USER NAME = brianf	DESIGNED -	REVISED -
PLOT SCALE = 10.0000' / IN.	CHECKED -	REVISED -
PLOT DATE = 1/3/2012	DRAWN -	REVISED -
	CHECKED -	REVISED -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

CROSS SECTIONS

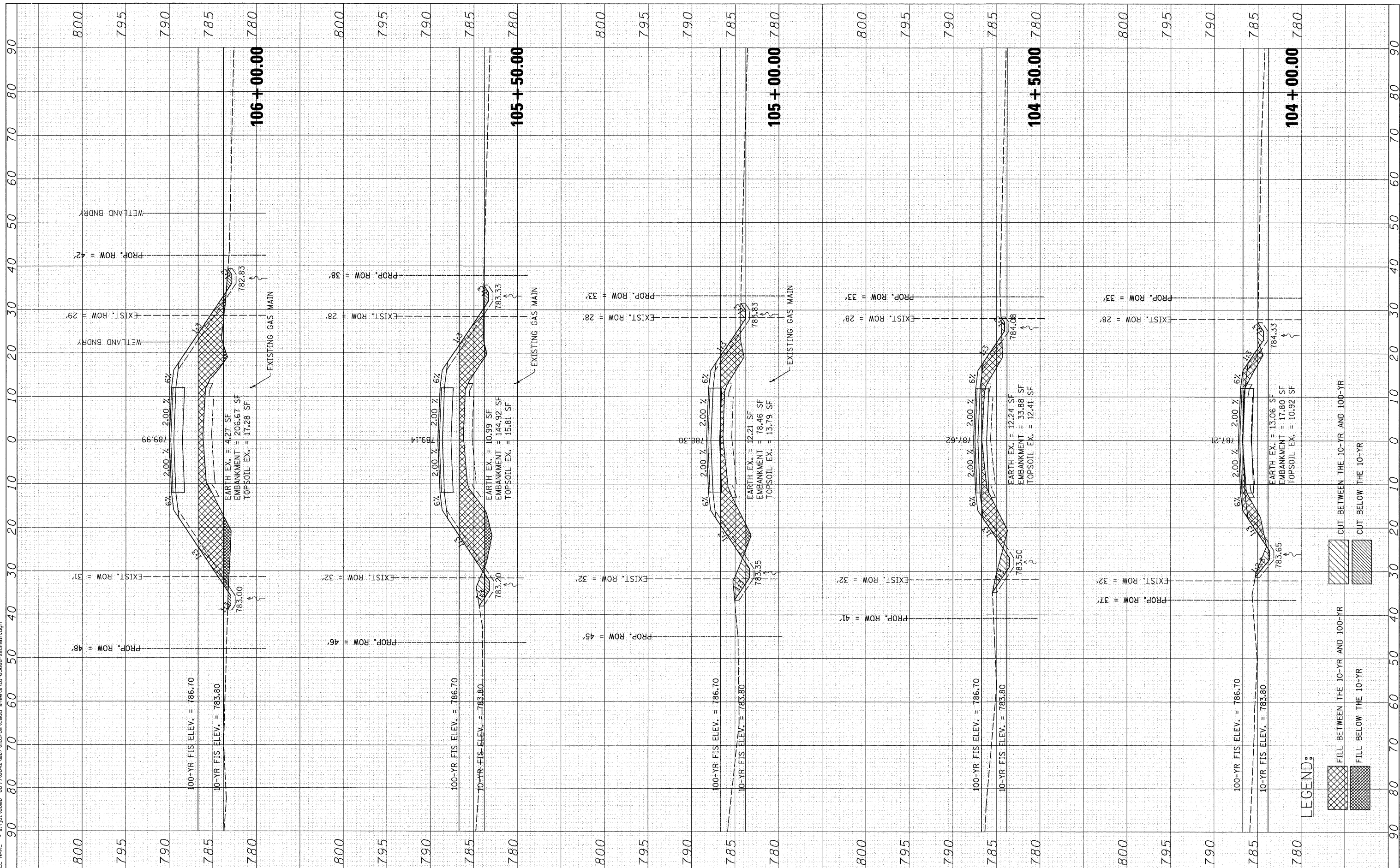
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F.ATR. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
21	08-00356-00-BR	MCHENRY	67	62
CONTRACT NO. 63666				
FED. ROAD DIST. NO. [ILLINOIS] FED. AID PROJECT				

FINL SURVEY	SURVEYED	BY	DATE
NOTE BOOK	PLOTTED		
AREAS CHECKED	TEMPLATE		
NO.	AREAS CHECKED		

ORIGINAL SURVEY	SURVEYED	BY	DATE
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AREAS CHECKED	TEMPLATE		
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LEGEND:

[Cross-hatch pattern]	FILL BETWEEN THE 10-YR AND 100-YR
[Diagonal hatch pattern]	FILL BELOW THE 10-YR
[Diagonal hatch pattern]	CUT BETWEEN THE 10-YR AND 100-YR
[Diagonal hatch pattern]	CUT BELOW THE 10-YR

STRAND ASSOCIATES
1170 SOUTH HOUBOLT ROAD
JOLIET, ILLINOIS 60431
(815) 744-4200

USER NAME = brianf
DESIGNED -
CHECKED -
DRAWN -
CHECKED -
PLOT SCALE = 1/8" = 1' IN.
PLOT DATE = 1/3/2012

DESIGNED -
CHECKED -
DRAWN -
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REVISED -
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**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

CROSS SECTIONS

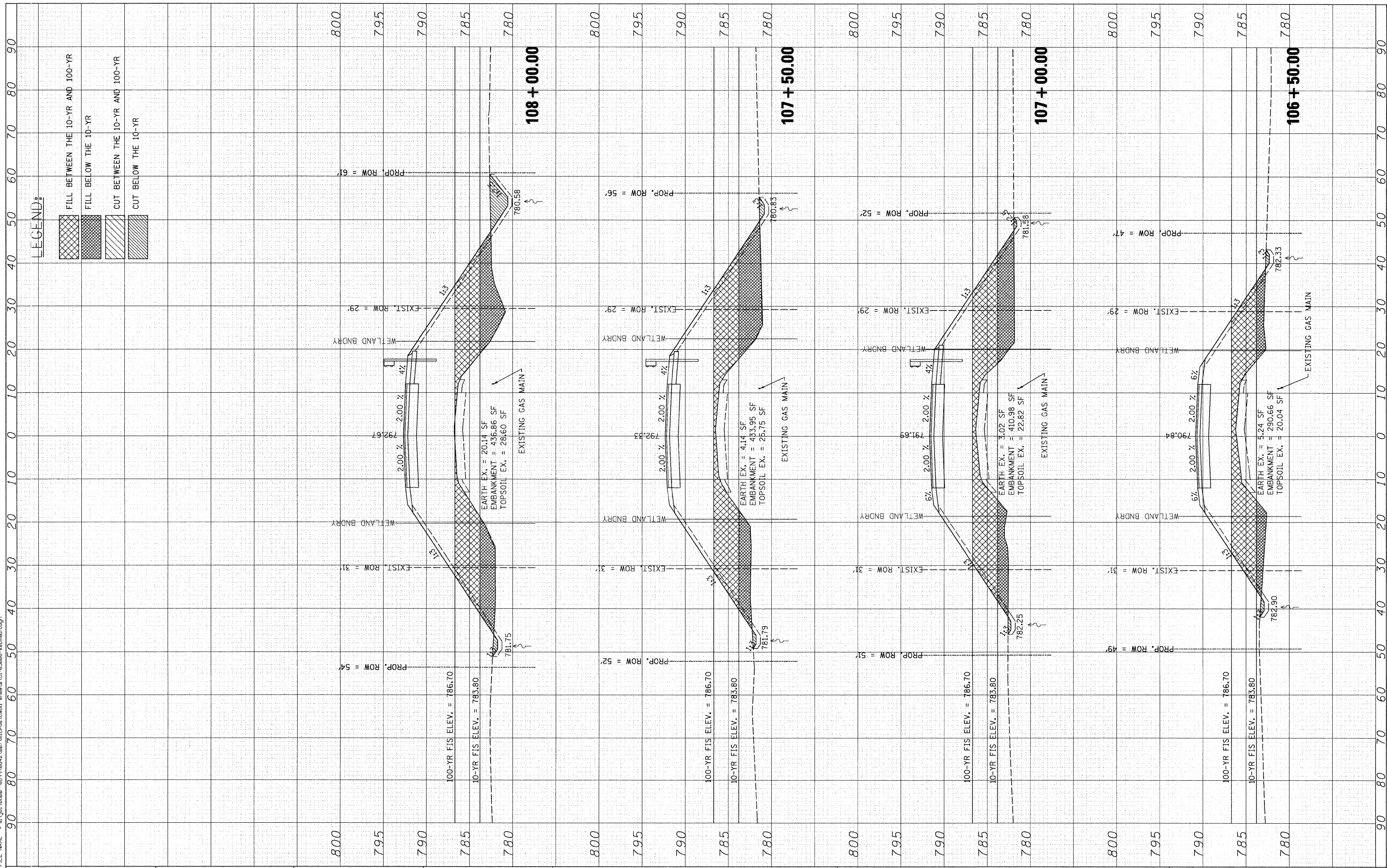
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F.A.T.R. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
21	08-00356-00-BR	MCHENRY	67	63
CONTRACT NO. 63666				
FED. ROAD DIST. NO. [ILLINOIS] FED. AID PROJECT				

FINL SURVEY NO.	DATE
SURVEYED	BY
PLOTTED	DATE
TEMPLATE	
AREAS CHECKED	

ORIGINAL SURVEY NO.	DATE
SURVEYED	BY
PLOTTED	DATE
TEMPLATE	
AREAS CHECKED	

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LEGEND:

- FILL BETWEEN THE 10-YR AND 100-YR
- FILL BELOW THE 10-YR
- CUT BETWEEN THE 10-YR AND 100-YR
- CUT BELOW THE 10-YR

STRAND ASSOCIATES*
 1170 SOUTH HOUBOLT ROAD
 JOLIET, ILLINOIS 60431
 (815) 744-4200

USER NAME = br1enf
 DESIGNED -
 CHECKED -
 DRAWN -
 PLOT SCALE = 1/8" = 10.0000' / IN.
 PLOT DATE = 1/3/2012

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 PLOT DATE = 1/3/2012

**STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION**

CROSS SECTIONS

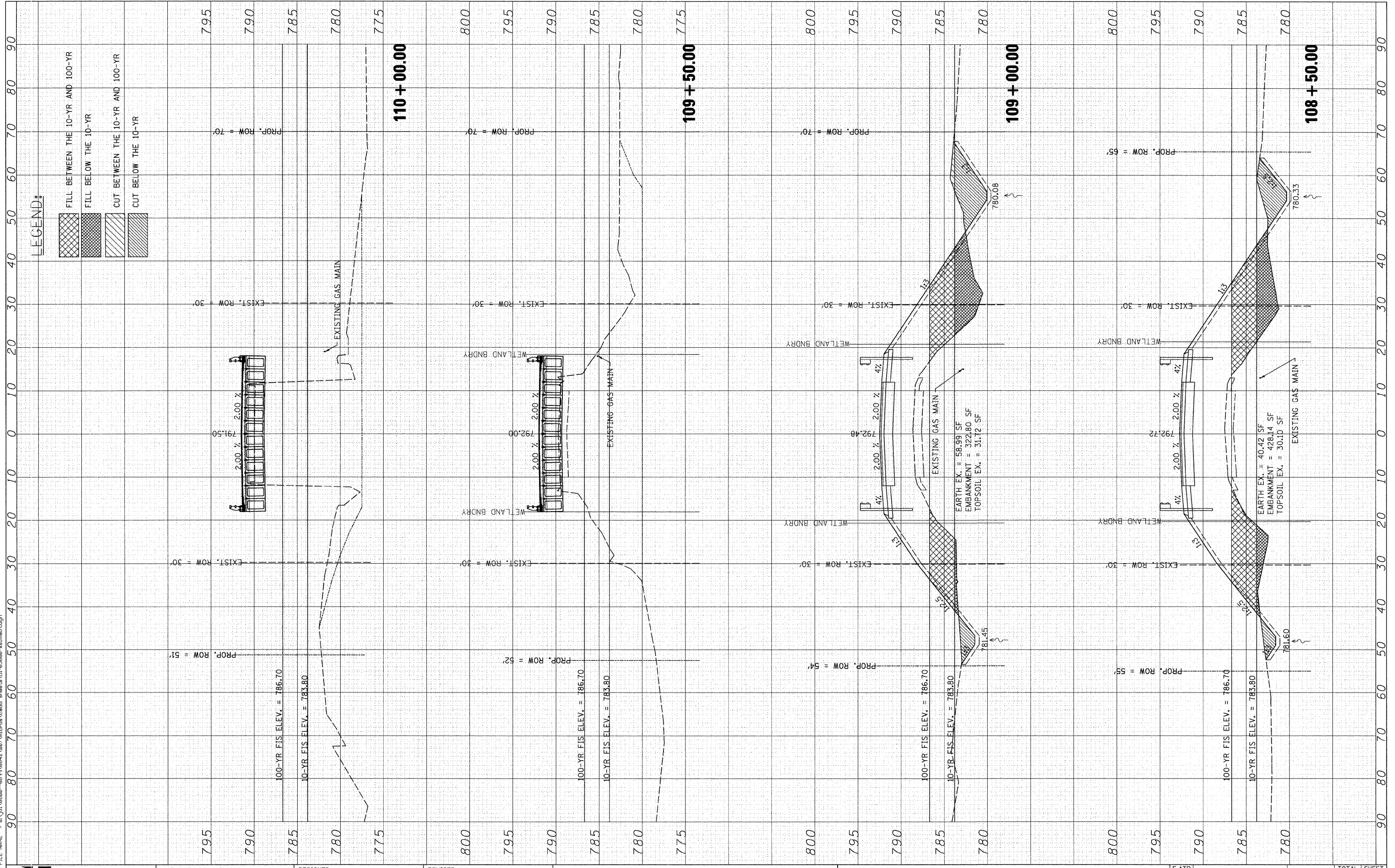
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F.A.T.R. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
21	08-00356-00-BR	MCHENRY	67	64
CONTRACT NO. 63666				
FED. ROAD DIST. NO.		ILLINOIS FED. AID PROJECT		

FINAL SURVEY	SURVEYED	BY	DATE
NOTE BOOK	PLOTTED		
AREAS CHECKED	TEMPLATE		
NO.	AREAS CHECKED		

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NOTE BOOK	PLOTTED		
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STRAND ASSOCIATES
1170 SOUTH HOUBOLT ROAD
JOLIET, ILLINOIS 60431
(815) 744-4200

USER NAME = brienf	DESIGNED -	REVISED -
PLOT SCALE = 10.0000' / IN.	CHECKED -	REVISED -
PLOT DATE = 1/3/2012	DRAWN -	REVISED -
	CHECKED -	REVISED -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

CROSS SECTIONS			
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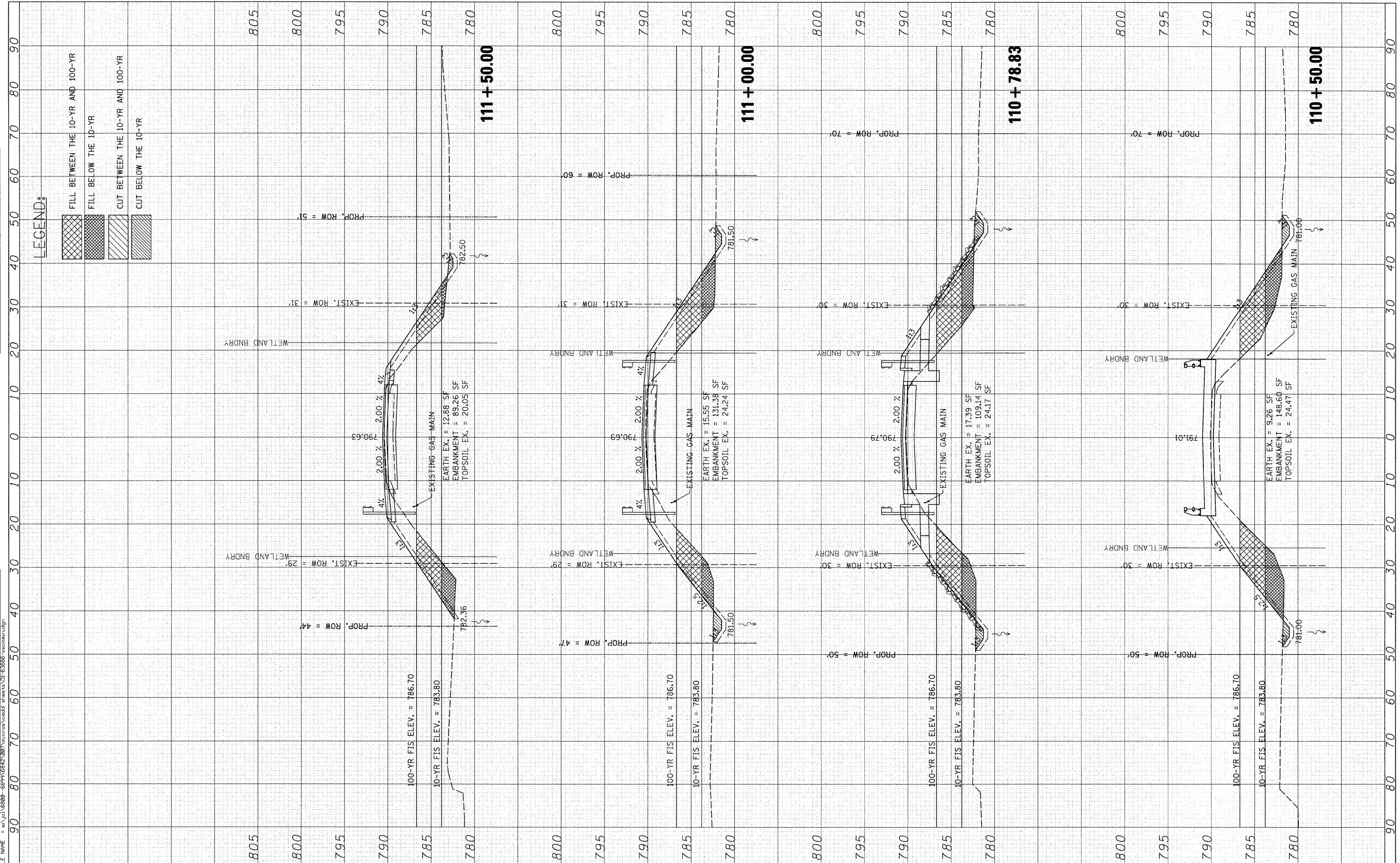
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FED. ROAD DIST. NO.		ILLINOIS FED. AID PROJECT		

CONTRACT NO. 63666

FINAL SURVEY	SURVEYED	BY	DATE
NOTE BOOK	PLOTTED		
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	AREAS CHECKED		

ORIGINAL SURVEY	SURVEYED	BY	DATE
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1170 SOUTH HOUBOLT ROAD
JOLIET, ILLINOIS 60431
(815) 744-4200

USER NAME = brsnrf
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CHECKED -
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DRAWN -
PLOT DATE = 1/3/2012
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**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

CROSS SECTIONS

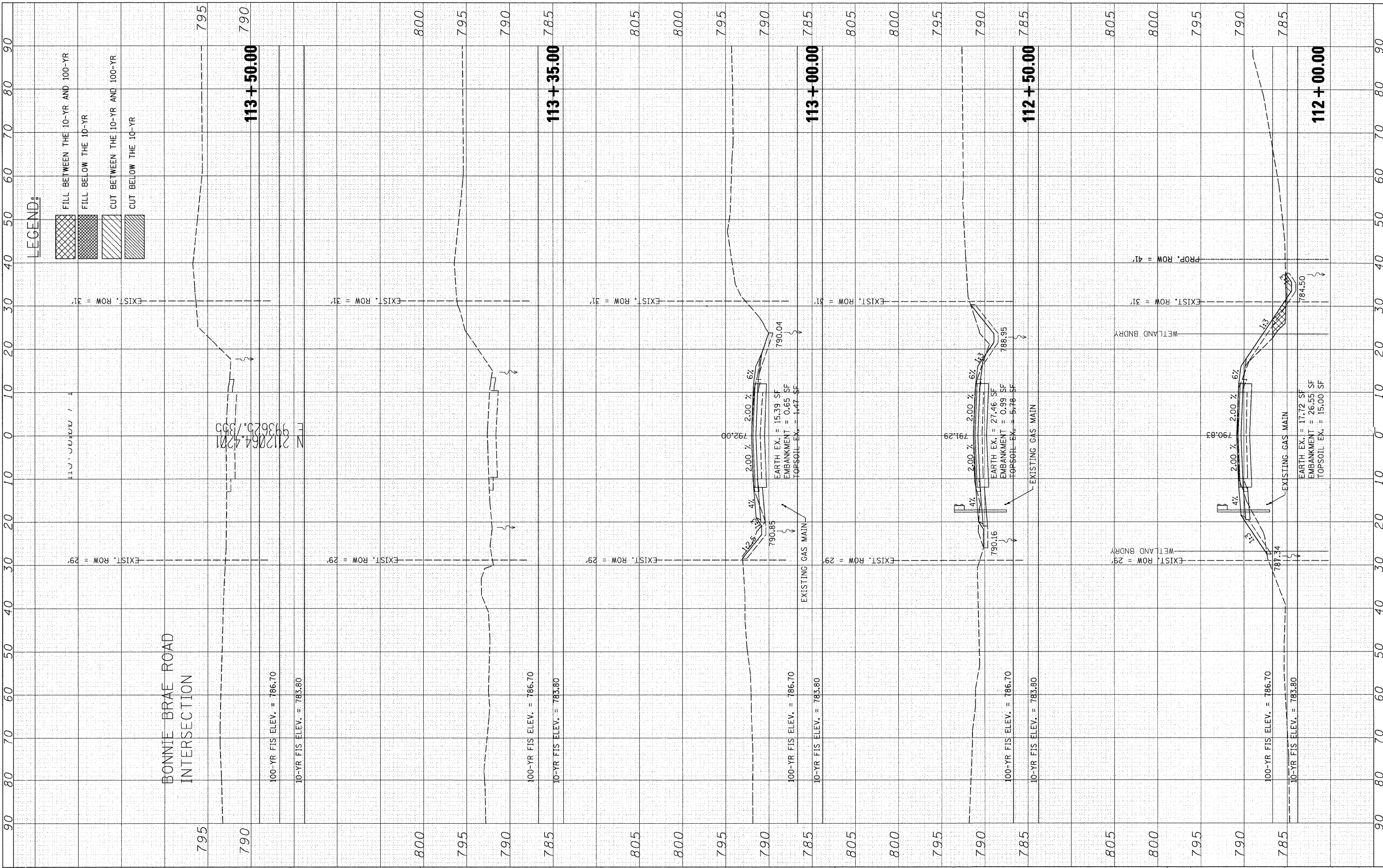
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F.A.T.R.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
21	08-00356-00-BR	MCHENRY	67	66
FED. ROAD DIST. NO.		ILLINOIS FED. AID PROJECT		
		CONTRACT NO. 63666		

DATE	
BY	
FINAL SURVEY	
PLOTTED	
NOTE BOOK	
NO.	
AREAS CHECKED	

DATE	
BY	
ORIGINAL SURVEY	
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NOTE BOOK	
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AREAS CHECKED	

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LEGEND:

- FILL BETWEEN THE 10-YR AND 100-YR
- FILL BELOW THE 10-YR
- CUT BETWEEN THE 10-YR AND 100-YR
- CUT BELOW THE 10-YR

STRAND ASSOCIATES
 1170 SOUTH HOUBOLT ROAD
 JOLIET, ILLINOIS 60431
 (815) 744-4200

USER NAME = brianf
 DESIGNED -
 CHECKED -
 DRAWN -
 CHECKED -
 PLOT SCALE = 12,0000' / IN.
 PLOT DATE = 1/3/2012

DESIGNED -
 CHECKED -
 DRAWN -
 CHECKED -

REVISED -
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 REVISED -
 REVISED -

**STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION**

CROSS SECTIONS

SCALE: SHEET NO. OF SHEETS STA. 112+00.00 TO STA. 113+35.00

F.A.T.R. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
21	08-00356-00-BR	MCHENRY	67	67
FED. ROAD DIST. NO.		ILLINOIS FED. AID PROJECT		CONTRACT NO. 63666