04-22-2016 LETTING ITEM 035

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
626	42-(B,B-1) BR-1	KNOX	152	1
	ILLINOIS	CONTRACT NO. 68754		

* 152 + 1 = 153 TOTAL SHEETS

D-94-088-07

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION
DIVISION OF HIGHWAYS

PROPOSED
HIGHWAY PLANS

FAP ROUTE 626 (IL 97)
SECTION 42-(B,B-1) BR-1
PROJECT ACF-06260 (010)
BRIDGE REPLACEMENT
KNOX COUNTY
C-94-133-07

IL ROUTE 97 OVER HAW CREEK TRIBUTARY
AND IL ROUTE 97 OVER LITTLE HAW CREEK
REPLACEMENT OF EXISTING BRIDGES

INDEX OF SHEETS

DESIGN DESIGNATION

MINOR ARTERIAL (RURAL) (048-0098)
CURRENT ADT: 2,000 (2011)
DESIGN ADT: 2,440 (2031)
DESIGN SPEED: 55 MPH
POSTED SPEED: 55 MPH
MU = 6.3%, SU = 6.3%

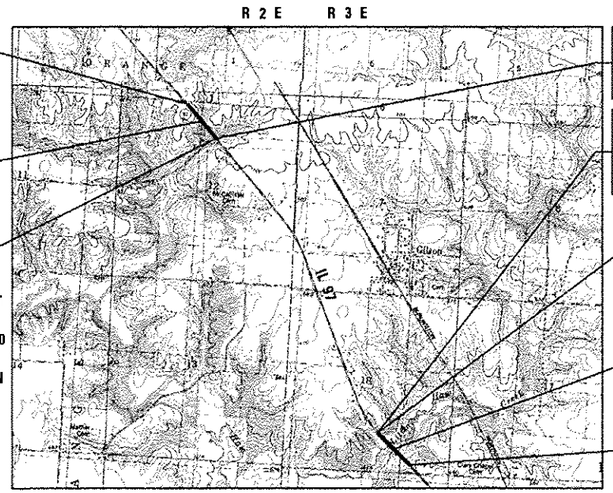
MINDR ARTERIAL (RURAL) (048-0097)
CURRENT ADT: 1,650 (2011)
DESIGN ADT: 2,000 (2031)
DESIGN SPEED: 55 MPH
POSTED SPEED: 55 MPH
MU = 6.0%, SU = 7.6%

LOCATION OF SECTION INDICATED THUS:- ■

BEGIN SECTION
STA. 393 + 20

STA. 396 + 64.17 TO
STA. 397 + 42.83
BRIDGE REPLACEMENT

END SECTION
STA. 400 + 90



PROJECT INCLUDES SINGLE SPAN STRUCTURE, CONSISTING OF A REINFORCED CONCRETE DECK ON PPC I-BEAMS FOUNDED ON OPEN ABUTMENTS EXIST. S. N. 048-0014 PROP. S. N. 048-0098

PROJECT INCLUDES SINGLE SPAN STRUCTURE, CONSISTING OF A REINFORCED CONCRETE DECK ON STEEL BEAMS FOUNDED ON OPEN ABUTMENTS EXIST. S. N. 048-0015 PROP. S. N. 048-0097

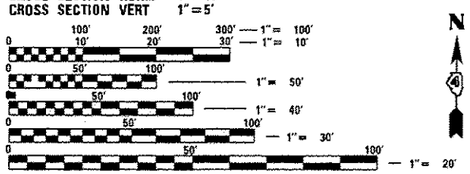
BEGIN SECTION
STA. 529 + 40

STA. 536 + 67.33 TO
STA. 537 + 44.67
BRIDGE REPLACEMENT

END SECTION
STA. 544 + 15

SCALE IN FEET

PLAN	1" = 50'
PROFILE HORIZ	1" = 50'
PROFILE VERT	1" = 5'
CROSS SECTION HORIZ	1" = 10'
CROSS SECTION VERT	1" = 5'



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.

LAYOUT
0 MI 0.5 MI 1 MI 1.5 MI 2 MI

GROSS LENGTH = 770.00 FT. = 0.146 MILE (048-0098)
NET LENGTH = 770.00 FT. = 0.146 MILE
GROSS LENGTH = 1,475.00 FT. = 0.279 MILE (048-0097)
NET LENGTH = 1,475.00 FT. = 0.279 MILE

PROJECT ENGINEER CHRISTOPHER MAUSHARD 309-671-3453
PROJECT MANAGER MICHAEL HUDELSON 309-671-3466

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

CONTRACT NO. 68754
CATALOG NO. 033593-000

MARY COOMBE BLOXDORF 43208 REGISTERED PROFESSIONAL ENGINEER OF ILLINOIS

Mary Coombe Bloxdorf 10-14-15
MARY COOMBE BLOXDORF, P.E. Date
IL P.E. NO. 43208
EXPIRES: 11/30/2015
SHEETS 78-152 ONLY

BRUCE P. SCHOPP 062-043293 LICENSED PROFESSIONAL ENGINEER OF ILLINOIS

Bruce P. Schopp 10/14/2015
BRUCE P. SCHOPP, P.E. Date
IL P.E. NO. 062-043293
EXPIRES: 11/30/2015

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION
DIVISION OF HIGHWAYS

SUBMITTED Oct 16 20 15
Kenneth A Barnetson
DEPUTY DIRECTOR OF HIGHWAYS, REGION ENGINEER
March 18 20 16
Maureen M. Addis P.E. by
acting ENGINEER OF DESIGN AND ENVIRONMENT
March 18 20 16
Omer Osman P.E. by
DIRECTOR OF HIGHWAYS, CHIEF ENGINEER

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10115.003

GENERAL NOTES

1. AVAILABILITY OF ELECTRONIC FILES

MICRO STATION AND GEOPAK FILES OF THIS PROJECT WILL BE MADE AVAILABLE TO THE CONTRACTOR. IF THERE IS A CONFLICT BETWEEN THE ELECTRONIC FILES AND THE PRINTED CONTRACT PLANS AND DOCUMENTS, THE PRINTED CONTRACT PLANS AND DOCUMENTS SHALL TAKE PRECEDENCE OVER THE ELECTRONIC FILES. THE CONTRACTOR SHALL ACCEPT ALL RISK ASSOCIATED WITH USING THE ELECTRONIC FILES AND SHALL HOLD THE DEPARTMENT HARMLESS FOR ANY ERRORS OR OMISSIONS IN THE ELECTRONIC FILES AND THE DATA CONTAINED THEREIN. ERRORS OR DELAYS RESULTING FROM THE USE OF THE ELECTRONIC FILES BY THE CONTRACTOR SHALL NOT RESULT IN AN EXTENSION OF TIME FOR ANY INTERIM OR FINAL COMPLETION DATE OR SHALL NOT BE CONSIDERED CAUSE FOR ADDITIONAL COMPENSATION. THE CONTRACTOR SHALL NOT USE, SHARE, OR DISTRIBUTE THESE ELECTRONIC FILES EXCEPT FOR THE PURPOSE OF CONSTRUCTING THIS CONTRACT. ANY CLAIMS BY THIRD PARTIES DUE TO USE OR ERRORS SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR. THE CONTRACTOR SHALL INCLUDE THIS DISCLAIMER WITH THE TRANSFER OF THESE ELECTRONIC FILES TO ANY OTHER PARTIES AND SHALL INCLUDE APPROPRIATE LANGUAGE BINDING THEM TO SIMILAR RESPONSIBILITIES.

THE GEOTECHNICAL REPORT FOR THIS PROJECT WILL BE MADE AVAILABLE TO THE CONTRACTOR UPON REQUEST.

2. UTILITIES - LOCATIONS / INFORMATION ON PLANS

THE LOCATIONS OF EXISTING WATER MAINS, GAS MAINS, SEWERS, ELECTRIC POWER LINES, TELEPHONE LINES AND OTHER UTILITIES AS SHOWN ON THE PLANS ARE BASED ON CAREFUL FIELD INVESTIGATION AND THE BEST INFORMATION AVAILABLE, BUT THEY ARE NOT GUARANTEED. UNLESS ELEVATIONS ARE SHOWN - ALL UTILITY LOCATIONS SHOWN ON THE CROSS SECTIONS ARE BASED ON THE APPROXIMATE DEPTH SUPPLIED BY THE UTILITY COMPANY. IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO ASCERTAIN THEIR EXACT LOCATION FROM THE UTILITY COMPANIES AND BY FIELD INSPECTION.

3. TREE REMOVAL - UTILITY RELOCATION

TREE REMOVAL MAY BE NECESSARY PRIOR TO UTILITY COMPANIES BEING ABLE TO RELOCATE THEIR FACILITIES OUTSIDE THE CONSTRUCTION LIMITS. THE CONTRACTOR SHOULD COORDINATE ANY CONTRACT TREE REMOVAL ACTIVITIES WITH THE UTILITY COMPANIES TO ELIMINATE CONFLICTS AND POTENTIAL DELAYS CAUSED BY UTILITY TREE REMOVAL ACTIVITIES OR INCOMPLETE UTILITY RELOCATIONS.

4. PLAN ELEVATIONS - U. S. C. S. MEAN SEA LEVEL DATUM

ALL ELEVATIONS SHOWN ON THE PLANS ARE ESTABLISHED FROM U. S. C. S. MEAN SEA LEVEL DATUM.

5. PROPERTY OWNER ACCESS REQUIREMENTS

ACCESS MUST BE MAINTAINED TO ALL EXISTING PROPERTIES DURING CONSTRUCTION PER ARTICLE 107.09 UNLESS ARRANGEMENTS ARE MADE IN WRITING BY THE CONTRACTOR WITH THE PROPERTY OWNERS WITH A COPY TO THE ENGINEER FOR SHORT-TERM CLOSURES.

6. TEMPORARY MATERIAL REQUIREMENTS - UTILITY AND DRIVEWAY CROSSINGS

AGGREGATE SURFACE COURSE MAY BE USED FOR ALL DRIVEWAY CROSSINGS IN ACCORDANCE WITH ARTICLE 107.09.

7. CONSTRUCTION LIMITS

THE CONTRACTOR SHALL CONFINE ALL OPERATIONS TO THE CONSTRUCTION LIMITS LINE SHOWN ON THE PLANS. ANY AREA DISTURBED BEYOND THESE LIMITS SHALL BE RESTORED TO ITS ORIGINAL CONDITION AT THE CONTRACTORS EXPENSE UNLESS PRIOR APPROVAL HAS BEEN OBTAINED FROM THE RESIDENT ENGINEER.

8. TREE REMOVAL

THE RESIDENT ENGINEER SHOULD BE CONTACTED AND PRIOR APPROVAL OBTAINED FOR ANY TREE REMOVAL BEYOND THE LIMITS/LOCATIONS INCLUDED IN THE PLANS.

9. ENVIRONMENTAL REVIEWS

PRIOR TO THE USE OF ANY PROPOSED BORROW AREAS, USE AREAS (TEMPORARY ACCESS ROADS, DETOURS, RUN-AROUNDS, ETC.) AND/OR WASTE AREAS, THE CONTRACTOR SHALL FILE THE REQUIRED ENVIRONMENTAL RESOURCE REQUEST SURVEYS ACCORDING TO SECTION 107.22 OF THE STANDARD SPECIFICATIONS. THESE SURVEYS ARE REQUIRED IN ORDER FOR THE DEPARTMENT TO CONDUCT CULTURAL AND BIOLOGICAL RESOURCE SURVEYS FOR THE PROPOSED SITE.

PRIOR TO ANY WASTE MATERIALS BEING REMOVED FROM THE CONSTRUCTION SITE THE REQUIRED ENVIRONMENTAL RESOURCE SURVEYS WILL NEED TO BE OBTAINED AND FILED BY THE CONTRACTOR. EXCESS WASTE PRODUCTS REMOVED FROM THE CONSTRUCTION SITE SHALL BE DISPOSED OF AS REQUIRED IN SECTION 202.03 OF THE STANDARD SPECIFICATIONS.

ANY PROTRUDING METAL BARS SHALL BE REMOVED PRIOR TO THE DISPOSAL OF BROKEN CONCRETE AT APPROVED DISPOSAL SITES.

THE REQUIRED ENVIRONMENTAL RESOURCE DOCUMENTATION SHALL INCLUDE THE FOLLOWING:

- BDE FORM 2289 (ENVIRONMENTAL SURVEY REQUEST)
- A LOCATION MAP SHOWING THE SIZE LIMITS AND LOCATION OF THE USE AREA
- SIGNED PROPERTY OWNER AGREEMENT FORM-D4 PI0100
- COLOR PHOTOGRAPHS DEPICTING THE USE AREA
- BORROW AREA ENTRY AGREEMENT FORM-D4 PI0101

PLEASE NOTE THAT A MINIMUM OF TWO WEEKS SHALL BE ALLOWED FOR THE DISTRICT TO OBTAIN THE REQUIRED ENVIRONMENTAL CLEARANCES.

10. SEEDING - SIDE SLOPE RIPPING

ALL SLOPES STEEPER THAN 3 TO 1 AND OVER 15 FT (4.5 M) IN HEIGHT SHALL BE RIPPED. THIS SHALL CONSIST OF RIPPING BETWEEN 18 INCHES TO 24 INCHES (450 MM TO 600 MM) DEEP NORMAL TO THE SLOPE. THE INTERVAL OF RIPPING ALONG THE SLOPE SHALL BE 12 FT. (3.6 M). THIS WORK SHALL BE DONE AFTER THE SEED BED HAS BEEN PREPARED BUT BEFORE ANY FERTILIZER OR SEED HAS BEEN APPLIED. THE FERTILIZER AND SEED SHALL BE APPLIED WITHIN A 24-HOUR PERIOD AFTER THE RIPPING HAS BEEN DONE. THIS WORK WILL NOT BE PAID FOR SEPARATELY BUT WILL BE INCLUDED IN THE COST OF THE VARIOUS ITEMS OF SEEDING INVOLVED.

11. AGGREGATE SURFACE COURSE, TYPE B

AGGREGATE SURFACE COURSE, TYPE B SHALL BE REQUIRED FOR ALL GRANULAR CONSTRUCTION OF SIDE ROADS, ENTRANCES, AND MAILBOX TURNOUTS. WHETHER OR NOT PORTIONS OF THE SURFACES THUS CONSTRUCTED ARE TO BE COVERED WITH A BITUMINOUS SURFACE, EXCEPT WHERE NOTED DIFFERENTLY ON THE PLANS.

12. AGGREGATE FOR DRIVEWAY REPLACEMENT

THE MATERIAL USED FOR CONSTRUCTION OF PERMANENT AGGREGATE DRIVEWAYS SHALL BE GRAVEL OR CRUSHED STONE AS DIRECTED BY THE ENGINEER, TO REPLACE IN KIND THE EXISTING AGGREGATE DRIVEWAYS.

NO ADDITIONAL COMPENSATION SHALL BE PROVIDED FOR THIS REQUIREMENT BUT SHALL BE CONSIDERED AS INCLUDED IN THE COST OF THE PAY ITEM FOR THE AGGREGATE AS SPECIFIED ON THE PLANS.

13. PAVEMENT STATIONING NUMBERS & PLACEMENT

THE CONTRACTOR SHALL PROVIDE LABOR AND MATERIALS REQUIRED TO IMPRINT PAVEMENT STATION NUMBERS IN THE FINISHED SURFACE OF THE PAVEMENT AND/OR OVERLAY. THE NUMBERS SHALL BE APPROXIMATELY 3/4 INCH (20MM) WIDE, 5 INCHES (125 MM) HIGH AND 5/8 INCH (15 MM) DEEP.

THE PAVEMENT STATION NUMBERS SHALL BE INSTALLED AS SPECIFIED HEREIN:

INTERVAL - 200 FEET (ENGLISH STATIONING) OR 100 METERS (METRIC STATIONING)

BOTTOM OF NUMBERS - 6 INCHES (150 MM) FROM THE INSIDE EDGE OF THE PAVEMENT MARKING

LOCATION:
- 2,3, & 5 LANE PAVEMENTS - RIGHT EDGE OF PAVEMENT IN DIRECTION OF INCREASING STATIONS
- MULTI-LANE DIVIDED ROADWAYS - OUTSIDE EDGE OF PAVEMENT IN BOTH DIRECTIONS
- RAMPS - ALONG BASELINE EDGE OF PAVEMENT

POSITION - STATIONS SHALL BE PLACED SO THEY CAN BE READ FROM THE ADJACENT SHOULDER

FORMAT - ENGLISH (METRIC) PAVEMENT STATIONS SHALL USE THIS FORMAT "XXX (XX+XOO)" WHERE X REPRESENTS THE PAVEMENT STATION

THIS WORK WILL NOT BE PAID FOR SEPARATELY, BUT WILL BE CONSIDERED INCLUDED IN THE COST OF THE ASSOCIATED PAVEMENT AND/OR OVERLAY PAY ITEMS.

FILE NAME = M:\PLOTS\NO 3 - IL 97 over Haw Creek\Microstation\C600 Sheets\D468754-sht-genotes.dgn

OATES ASSOCIATES Engineering + Architecture
ILLINOIS DESIGN FIRM LICENSE NO: 184.001115

USER NAME = mastfield	DESIGNED -	REVISED -
	DRAWN -	REVISED -
PLOT SCALE = 100.0000 ' / in.	CHECKED -	REVISED -
PLOT DATE = 10/14/2015	DATE -	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

GENERAL NOTES, STANDARDS, & COMMITMENTS
IL 97 OVER HAW CREEK TRIBUTARY

SCALE: | SHEET 1 OF 2 SHEETS | STA. | TO STA.

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
626	42-1(B,B-1) BR-1	KNOX	152	2
		CONTRACT NO. 68754		
	ILLINOIS FED. AID PROJECT			

14. HOT-MIX ASPHALT MIXTURE REQUIREMENTS

MIXTURES TABLE

MIXTURE USE(S)	SURFACE COURSE	HMA BINDER VAR. DEPTH	HMA SHOULDER (SURFACE LIFT)	HMA SHOULDER (LOWER LIFT)	TEMP WIDENING
AC/PG	PG 64-22	PG 64-22	PG 64-22	PG 64-22	PG 64-22
RAP % (MAX)	15%	25%	30%	30%	25%
DESIGN AIR VOIDS	4.0% @ N=50	4.0% @ N=50	3.0% @ N=30	3.0% @ N=30	4.0% @ N=50
MIXTURE COMPOSITION	IL 9.5	IL 9.5	IL 9.5L	IL 9.5L	IL 19.0
FRICTION AGGREGATE	MIXTURE D (DOLOMITE ONLY)	N.A.	MICTURE C	N.A.	N.A.
QUALITY MANAGEMENT PROGRAM	QCQA	QCQA	QCQA	QCQA	QCQA

NOTES: 1. INDIVIDUAL MINIMUM LIFT THICKNESS SHALL BE AS PER ART. 406.06 (d) AND MAXIMUM LIFT THICKNESS SHALL BE NO MORE THAN 6 TIMES NOMINAL MAXIMUM AGGREGATE
2. FOR IL 12.5 MIXES, CA 14 WILL BE ALLOWED IN CONJUNCTION WITH CA16

15. BUTT JOINT CUTTING TIME RESTRICTION

BUTT JOINTS SHALL NOT BE MILLED MORE THAN THREE (3) DAYS PRIOR TO PLACEMENT OF HMA SURFACE COURSE

16. PAVING SURFACE COURSE

CONTINUOUS PAVING OPERATIONS ON THE MAIN ROADWAY SHALL BE MAINTAINED AT ALL TIMES DURING THE CONSTRUCTION OF THE HOT-MIX ASPHALT SURFACE. NO INTERRUPTIONS FOR SIDE ROADS, ENTRANCES, TURN LANES, ETC. WILL BE ALLOWED. ALL SURFACE COURSE PLACEMENT SHOULD BE DONE AFTER STAGE 2 AND AFTER ALL BARRIER WALLS HAVE BEEN REMOVED.

17. SAW CUT - 18" (450 MM) SHOULDER REMOVAL - IN-PLACE WHEEL SAW GRINDING PERMITTED

A FULL-DEPTH SAW CUT SHALL BE REQUIRED AT THE JOINT BETWEEN THE PAVEMENT THAT IS TO BE LEFT IN PLACE AND THE EXISTING SHOULDER THAT IS TO BE REMOVED. THE CONTRACTOR MAY HAVE THE OPTION OF USING A WHEEL SAW TO GRIND UP THE EXISTING SHOULDER AND LEAVE THE FINELY GROUND PIECES ON SITE UNDER THE NEW SHOULDER AND ON THE FORE SLOPE, WITH THE APPROVAL OF THE ENGINEER. MAXIMUM SIZE OF PIECES SHALL BE NO MORE THAN 3" (75 MM). LARGER PIECES SHALL BE PICKED UP/REMOVED FROM THE JOB SITE. NO ADDITIONAL COMPENSATION WILL BE ALLOWED FOR VARIATIONS IN ASSUMED THICKNESS. THIS WORK SHALL NOT BE PAID FOR SEPARATELY, BUT SHALL BE INCLUDED IN THE COST OF THE REMOVAL ITEMS.

18. ORDERING LENGTH CONFIRMATION - DRAINAGE ITEMS

THE CONTRACTOR SHALL CONSULT WITH THE ENGINEER IN REGARD TO THE EXACT LENGTH OF THE BOX/PIPE CULVERTS, STORM SEWERS, AND/OR PIPE DRAINS REQUIRED PRIOR TO ORDERING THESE ITEMS.

19. RIGHT-OF-WAY

IN CASE OF CONFLICT BETWEEN THE CONSTRUCTION PLANS AND THE RIGHT OF WAY PLANS, THE RIGHT OF WAY PLANS SHALL TAKE PRECEDENCE IN MATTERS CONCERNING RIGHT OF WAY AND EASEMENTS. THE CONSTRUCTION PLANS SHALL TAKE PRECEDENCE IN MATTERS CONCERNING CONSTRUCTION ITEMS.

WHEN INSTALLING RIGHT-OF-WAY MARKERS, CARE SHALL BE TAKEN TO NOT DISTURB ANY EXISTING PROPERTY/RIGHT-OF-WAY PINS. IF A PROPERTY/RIGHT-OF-WAY PIN IS FOUND AT THE LOCATION OF A PROPOSED RIGHT-OF-WAY MARKER, THE MARKER SHALL BE PLACED ONE (1) FOOT IN FRONT OF THE PIN.

20. ENGINEERS FIELD OFFICE

ADD THE FOLLOWING SENTENCE TO THE END OF PARAGRAPH 670.02 (I) AND 670.04 (E):
ALL OF THE TELEPHONE LINES PROVIDED SHALL HAVE UNPUBLISHED NUMBERS.

21. SIGNING

SIGN LOCATIONS MAY VARY FROM THE STATIONS SHOWN ON THE PLANS IN ACCORDANCE WITH DIRECTIONS FROM THE ENGINEER AT THE TIME OF CONSTRUCTION. SIGN LOCATIONS MAY BE ADJUSTED IN THE FIELD TO AVOID ANY FOUND UTILITIES.

ALL WOOD POST LOCATIONS SHALL BE VERIFIED WITH THE BUREAU OF OPERATIONS, TRAFFIC SECTION, BEFORE INSTALLATION.

HIGHWAY STANDARDS

000001-06	STANDARD SYMBOLS, ABBREVIATIONS AND PATTERNS
001001-02	AREAS OF REINFORCEMENT BARS
001006	DECIMAL OF AN INCH AND OF A FOOT
280001-07	TEMPORARY EROSION CONTROL SYSTEMS
420401-12	BRIDGE APPROACH PAVEMENT CONNECTOR
482011-03	HMA SHLD. STRIPS/SHLDS. WITH RESURFACING OR WIDENING AND RESURFACING PROJECTS
515001-03	NAME PLATE FOR BRIDGES
542401-02	METAL END SECTIONS FOR PIPE CULVERTS
601101-02	CONCRETE HEADWALL FOR PIPE DRAIN
606001-06	CONCRETE CURB TYPE B AND COMBINATION CONCRETE CURB AND GUTTER
606111-03	OUTLETS TYPE 2 FOR TYPE A GUTTER
610001-06	SHOULDER INLET WITH CURB
630001-10	STEEL PLATE BEAM GUARDRAIL
630301-06	SHOULDER WIDENING FOR TYPE 1 (SPECIAL) GUARDRAIL TERMINALS
631031-14	TRAFFIC BARRIER TERMINAL, TYPE 6
701001-02	OFF-RD OPERATIONS, 2L, 2W, MORE THAN 15' (4.5 m) AWAY
701006-05	OFF-RD OPERATIONS, 2L, 2W 15' (4.5 m) TO 24" (600 mm) FROM PAVEMENT EDGE
701011-04	OFF-RD MOVING OPERATIONS, 2L, 2W, DAY ONLY
701201-04	LANE CLOSURE, 2L, 2W, DAY ONLY, FOR SPEEDS > 45 MPH
701301-04	LANE CLOSURE, 2L, 2W, SHORT TIME OPERATIONS
701306-03	LANE CLOSURE, 2L, 2W, SLOW MOVING OPERATIONS DAY ONLY, FOR SPEEDS > 45 MPH
701311-03	LANE CLOSURE, 2L, 2W, MOVING OPERATIONS-DAY ONLY
701321-15	LANE CLOSURE, 2L, 2W, BRIDGE REPAIR WITH BARRIER
701326-04	LANE CLOSURE, 2L, 2W, PAVEMENT WIDENING, FOR SPEEDS > 45 MPH
701901-05	TRAFFIC CONTROL DEVICES
704001-08	TEMPORARY CONCRETE BARRIER
780001-05	TYPICAL PAVEMENT MARKINGS
781001-04	TYPICAL APPLICATIONS RAISED REFLECTIVE PAVEMENT MARKERS
725001	OBJECT AND TERMINAL MARKERS
782006	GUARDRAIL AND BARRIER WALL REFLECTOR MOUNTING DETAILS

DISTRICT 4 STANDARDS - INCLUDED AS SHEETS 59-69 AND 130-143.

205001-04	SLOPE STEPS DETAIL
406101-04	BUTT JOINTS
406301-04	RURAL ENTRANCES FOR "3R" PROJECTS
440001-04	HOT MIX ASPHALT SURFACE REMOVAL (COLD MILLING)
601301-04	PIPE ELBOW
606101-04	TYPE A GUTTER (INLET, OUTLET & ENTRANCE)
630101-04	GUARDRAIL EROSION CONTROL TREATMENTS
667101-04	PERMANENT SURVEY TIE & PERMANENT SURVEY MARKERS TY. I - TY. II
780001-04	TYPICAL PAVEMENT MARKINGS

COMMITMENTS

COMMITMENTS CANNOT BE ALTERED WITHOUT THE WRITTEN CONSENT OF ALL PARTIES TO WHICH THE COMMITMENT WAS MADE

1. ENVIRONMENTAL COMMITMENT
TREES SHALL NOT BE CLEARED FROM APRIL 1 THRDUGH SEPTEMBER 30

FILE NAME = H:\PW\81115\WD 3 - IL 97 over Haw Creek\Microstation\C600 Sheets\068754-sht-gennotes.dgn

DATES ASSOCIATES Engineering • Architecture
ILLINOIS DESIGN FIRM LICENSE NO: 184.001115

USER NAME = mattfields	DESIGNED -	REVISED -	
	DRAWN -	REVISED -	
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PLOT DATE = 10/14/2015	DATE -	REVISED -	

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

GENERAL NOTES, STANDARDS, & COMMITMENTS
IL 97 OVER HAW CREEK TRIBUTARY

SCALE: | SHEET 2 OF 2 SHEETS | STA. | TO STA.

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
626	42-(8,8-1) BR-1	KNOX	152	3
		CONTRACT NO. 68754		
	ILLINOIS FED. AID PROJECT			

Illinois Department of Transportation

Status of Utilities

Name of Utility Company

Century Link

Route	FAP 626 (IL 97)
Section	42-(B,B-1)BR-1
County	Knox
Contract No.	68754
Catalog No.	033593-00D

Route	Offset	Location	Type of Utility	Type of Conflict	Disposition
IL 97	30' LT	534+00 to 540+00	Buried Cable	Grading	Relocate

NOTE: Please check all your facilities within the construction limits of this project.

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Printed 9/16/2015

D4 PD0100 (Rev. 02/24/10)

Illinois Department of Transportation

Status of Utilities

Name of Utility Company

Ameren Illinois

Route	FAP 626 (IL 97)
Section	42-(B,B-1)BR-1
County	Knox
Contract No.	68754
Catalog No.	033593-00D

Route	Offset	Location	Type of Utility	Type of Conflict	Disposition
IL 97	30' LT	396+32 & 397+95	Power Poles	Grading & Overhead bridge work	Relocate
IL 97	30' LT	536+24	Power Pole	Grading & Overhead bridge work	Relocate

NOTE: Please check all your facilities within the construction limits of this project.

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Printed 9/16/2015

D4 PD0100 (Rev. 02/24/10)

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DATES ASSOCIATES Engineering + Architecture
ILLINOIS DESIGN FIRM LICENSE NO: 184.001115

USER NAME = matt.fields	DESIGNED -	REVISED -
	DRAWN -	REVISED -
PLOT SCALE = 100.0000 ' / in.	CHECKED -	REVISED -
PLOT DATE = 10/14/2015	DATE -	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

STATUS OF UTILITIES
IL 97 OVER HAW CREEK TRIBUTARY

SCALE: | SHEET 1 OF 1 SHEETS | STA. | TO STA.

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
626	42-(B,B-1) BR-1	KNOX	152	4
		CONTRACT NO. 68754		
	ILLINOIS FED. AID PROJECT			

				1	2	1	2
				CONSTRUCTION CODE			
				HAW CREEK TRIBUTARY		LITTLE HAW CREEK	
CODE NO.	ITEM	UNIT	TOTAL QUANTITY	0004 ROADWAY	0011 STRUCTURAL	0004 ROADWAY	0011 STRUCTURAL
20100110	TREE REMOVAL (6 TO 15 UNITS DIAMETER)	UNIT	106			106	
20100210	TREE REMOVAL (OVER 15 UNITS DIAMETER)	UNIT	18			18	
20100500	TREE REMOVAL (ACRES)	ACRE	0.5	0.25		0.25	
20200100	EARTH EXCAVATION	CU YD	1,443	870		573	
20400800	FURNISHED EXCAVATION	CU YD	1,247			1,247	
21101615	TOPSOIL FURNISH AND PLACE, 4"	SQ YD	3,204	740		2,464	
25000305	SEEDING, CLASS 3A	ACRE	1	0.5		0.5	
25000400	NITROGEN FERTILIZER NUTRIENT	POUND	74	28		46	
25000500	PHOSPHORUS FERTILIZER NUTRIENT	POUND	74	28		46	
25000600	POTASSIUM FERTILIZER NUTRIENT	POUND	74	28		46	
25100630	EROSION CONTROL BLANKET	SQ YD	3,929	1,466		2,463	
28000250	TEMPORARY EROSION CONTROL SEEDING	POUND	166	64		102	
28000305	TEMPORARY DITCH CHECKS	FOOT	64	20		44	
28000400	PERIMETER EROSION BARRIER	FOOT	1,665	962		703	

NOTES:

• SPECIALTY ITEM

FILE NAME = N:\P\10115\VD 3 - IL 97 over Haw Creek\Microstation\C400 Sheets\D468754-sht-S00.dgn

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STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

SUMMARY OF QUANTITIES
IL 97 OVER HAW CREEK TRIBUTARY

SCALE: | SHEET 1 OF 7A SHEETS | STA. | TO STA.

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
626	42-(6,8-1) BR-1	KNOX	152	5
		CONTRACT NO. 68754		
		ILLINOIS FED. AID PROJECT		

CODE NO.	ITEM	UNIT	TOTAL QUANTITY	CONSTRUCTION CODE			
				HAW CREEK TRIBUTARY		LITTLE HAW CREEK	
				0004	0011	0004	0011
				ROADWAY	STRUCTURAL	ROADWAY	STRUCTURAL
28000500	INLET AND PIPE PROTECTION	EACH	6	2		4	
28100707	STONE DUMPED RIPRAP, CLASS A4	SQ YD	869	23		846	
28100709	STONE DUMPED RIPRAP, CLASS A5	SQ YD	1,942		1,042		900
28200200	FILTER FABRIC	SQ YD	2,811	23	1,042	846	900
31101200	SUBBASE GRANULAR MATERIAL, TYPE B 4"	SQ YD	1,583	446		1,137	
35650300	BASE COURSE WIDENING 8"	SQ YD	1,268	359		909	
40200800	AGGREGATE SURFACE COURSE, TYPE B	TON	35	27		8	
40600285	POLYMERIZED BITUMINOUS MATERIALS (PRIME COAT)	POUND	10,523	1,326		9,197	
40600982	HOT-MIX ASPHALT SURFACE REMOVAL - BUTT JOINT	SQ YD	401	162		239	
40600990	TEMPORARY RAMP	SQ YD	123	26		97	
40602978	HOT-MIX ASPHALT BINDER COURSE, IL- 9.5, N50	TON	1,104			1,104	
40603335	HOT-MIX ASPHALT SURFACE COURSE, MIX "D", N50	TON	491	186		305	
42001420	BRIDGE APPROACH PAVEMENT CONNECTOR (PCC)	SQ YD	44	44			
42001430	BRIDGE APPROACH PAVEMENT CONNECTOR (FLEXIBLE)	SQ YD	32			32	

14

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STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

SUMMARY OF QUANTITIES
IL 97 OVER HAW CREEK TRIBUTARY

SCALE: | SHEET 2 OF 7A SHEETS | STA. | TO STA.

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
626	42-1(8,8-1) BR-1	KNOX	152	6
		CONTRACT NO. 68754		
	ILLINOIS FED. AID PROJECT			

CODE NO.	ITEM	UNIT	TOTAL QUANTITY	CONSTRUCTION CODE			
				HAW CREEK TRIBUTARY		LITTLE HAW CREEK	
				0004	0011	0004	0011
				ROADWAY	STRUCTURAL	ROADWAY	STRUCTURAL
44000100	PAVEMENT REMOVAL	SQ YD	485	253		232	
44000155	HOT-MIX ASPHALT SURFACE REMOVAL, 1 1/2"	SQ YD	3,238			3,238	
44000400	GUTTER REMOVAL	FOOT	566	39		527	
44004250	PAVED SHOULDER REMOVAL	SQ YD	183			183	
48203003	HOT-MIX ASPHALT SHOULDERS, 1 1/2"	SQ YD	756			756	
48203100	HOT-MIX ASPHALT SHOULDERS	TON	178			178	
50100300	REMOVAL OF EXISTING STRUCTURES NO. 1	EACH	1		1		
50100400	REMOVAL OF EXISTING STRUCTURES NO. 2	EACH	1				1
50105220	PIPE CULVERT REMOVAL	FOOT	108			108	
50200100	STRUCTURE EXCAVATION	CU YD	376		282		94
50300225	CONCRETE STRUCTURES	CU YD	133.4		68.8		64.6
50300255	CONCRETE SUPERSTRUCTURE	CU YD	447.4		229.9		217.5
50300260	BRIDGE DECK GROOVING	SQ YD	910		459		451
50300300	PROTECTIVE COAT	SQ YD	1,160		583		577

14

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STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

SUMMARY OF QUANTITIES
IL 97 OVER HAW CREEK TRIBUTARY

SCALE: | SHEET 3 OF 7A SHEETS | STA. | TO STA.

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
626	42-(8,8-1) BR-1	KNOX	152	7
		CONTRACT NO. 68754		
	ILLINOIS FED. AID PROJECT			

CODE NO.	ITEM	UNIT	TOTAL QUANTITY	CONSTRUCTION CODE			
				HAW CREEK TRIBUTARY		LITTLE HAW CREEK	
				0004	0011	0004	0011
				ROADWAY	STRUCTURAL	ROADWAY	STRUCTURAL
50400905	FURNISHING AND ERECTING PRECAST PRESTRESSED CONCRETE I-BEAMS, 42 IN.	FOOT	456		456		
50500105	FURNISHING AND ERECTING STRUCTURAL STEEL	L SUM	1				1
50500505	STUD SHEAR CONNECTORS	EACH	1,098				1,098
50800205	REINFORCEMENT BARS, EPOXY COATED	POUND	115,030		58,050		56,980
50800515	BAR SPLICERS	EACH	971		493		478
51201600	FURNISHING STEEL PILES HP12X53	FOOT	435		205		230
51202305	DRIVING PILES	FOOT	435		205		230
51203600	TEST PILE STEEL HP12X53	EACH	4		2		2
51500100	NAME PLATES	EACH	2		1		1
52100520	ANCHOR BOLTS, 1"	EACH	24				24
54205053	PIPE CULVERTS, SPECIAL 18"	FOOT	39			39	
54210182	PIPE ELBOW, 12"	EACH	8	4		4	
54215547	METAL END SECTIONS 12"	EACH	4	2		2	
54215553	METAL END SECTIONS 18"	EACH	2			2	

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STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

SUMMARY OF QUANTITIES
IL 97 OVER HAW CREEK TRIBUTARY

SCALE: | SHEET 4 OF 7A SHEETS | STA. | TO STA.

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
626	42-(8,8-1) BR-1	KNOX	152	8
		CONTRACT NO. 68754		
		ILLINOIS FED. AID PROJECT		

	CODE NO.	ITEM	UNIT	TOTAL QUANTITY	CONSTRUCTION CODE			
					HAW CREEK TRIBUTARY		LITTLE HAW CREEK	
					0004	0011	0004	0011
					ROADWAY	STRUCTURAL	ROADWAY	STRUCTURAL
	54215559	METAL END SECTIONS 24"	EACH	1			1	
	55080120	STORM SEWERS, CLASS B, TYPE 1 24"	FOOT	274			274	
	59100100	GEOCOMPOSITE WALL DRAIN	SQ YD	144		76		68
	60100945	PIPE DRAINS 12"	FOOT	89	47		42	
	60218400	MANHOLES, TYPE A, 4'-DIAMETER, TYPE 1 FRAME, CLOSED LID	EACH	1			1	
	60405800	GRATES AND COVERS, TYPE 2A	EACH	2			2	
	60600095	CLASS SI CONCRETE (OUTLET)	CU YD	25.6	4.0		21.6	
	60600605	CONCRETE CURB, TYPE B	FOOT	70	30		40	
	60900515	CONCRETE THRUST BLOCKS	EACH	4	2		2	
	61000335	TYPE C INLET BOX, STANDARD 610001	EACH	4	2		2	
*	63000001	STEEL PLATE BEAM GUARDRAIL, TYPE A, 6 FOOT POSTS	FOOT	1,177.3	462.5		714.8	
*	63100045	TRAFFIC BARRIER TERMINAL, TYPE 2	EACH	2			2	
*	63100085	TRAFFIC BARRIER TERMINAL, TYPE 6	EACH	8	4		4	
*	63100167	TRAFFIC BARRIER TERMINAL, TYPE 1 (SPECIAL) TANGENT	EACH	7	4		3	

* SPECIALTY ITEM

14

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STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

SUMMARY OF QUANTITIES
IL 97 OVER HAW CREEK TRIBUTARY

SCALE: | SHEET 5 OF 7A SHEETS | STA. | TO STA.

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
626	42-1B,B-1) BR-1	KNOX	152	9
		CONTRACT NO. 68754		
		ILLINOIS FED. AID PROJECT		

CODE NO.	ITEM	UNIT	TOTAL QUANTITY	CONSTRUCTION CODE			
				HAW CREEK TRIBUTARY		LITTLE HAW CREEK	
				0004	0011	0004	0011
				ROADWAY	STRUCTURAL	ROADWAY	STRUCTURAL
63200310	GUARDRAIL REMOVAL	FOOT	1,576	790		786	
66600105	FURNISHING AND ERECTING RIGHT OF WAY MARKERS	EACH	16	4		12	
66700205	PERMANENT SURVEY MARKERS, TYPE I	EACH	5	3		2	
67000400	ENGINEER'S FIELD OFFICE, TYPE A	CAL MO	8	4		4	
67000600	ENGINEER'S FIELD LABORATORY	CAL MO	8	4		4	
67100100	MOBILIZATION	L SUM	1	0.5		0.5	
70100405	TRAFFIC CONTROL AND PROTECTION, STANDARD 701321	EACH	2	1		1	
70100450	TRAFFIC CONTROL AND PROTECTION, STANDARD 701201	L SUM	1	0.5		0.5	
70100460	TRAFFIC CONTROL AND PROTECTION, STANDARD 701306	L SUM	1	0.5		0.5	
70100500	TRAFFIC CONTROL AND PROTECTION, STANDARD 701326	L SUM	1	0.5		0.5	
70103815	TRAFFIC CONTROL SURVEILLANCE	CAL DA	20	10		10	
70106500	TEMPORARY BRIDGE TRAFFIC SIGNALS	EACH	2	1		1	
70106700	TEMPORARY RUMBLE STRIPS	EACH	12	6		6	
70300220	TEMPORARY PAVEMENT MARKING - LINE 4"	FOOT	6,682	1,945		4,737	

14

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STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

SUMMARY OF QUANTITIES
IL 97 OVER HAW CREEK TRIBUTARY

SCALE: | SHEET 6 OF 7A SHEETS | STA. | TO STA.

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
626	42-(B,B-1) BR-1	KNOX	152	10
		CONTRACT NO. 68754		
	ILLINOIS FED. AID PROJECT			

	CODE NO.	ITEM	UNIT	TOTAL QUANTITY	CONSTRUCTION CODE			
					HAW CREEK TRIBUTARY		LITTLE HAW CREEK	
					0004 ROADWAY	0011 STRUCTURAL	0004 ROADWAY	0011 STRUCTURAL
	70300280	TEMPORARY PAVEMENT MARKING - LINE 24"	FOOT	47	24		23	
	70300904	PAVEMENT MARKING TAPE, TYPE IV 4"	FOOT	570	298		272	
	70301000	WORK ZONE PAVEMENT MARKING REMOVAL	SQ FT	894	796		98	
	70400100	TEMPORARY CONCRETE BARRIER	FOOT	1,174	399		775	
	70400200	RELOCATE TEMPORARY CONCRETE BARRIER	FOOT	1,140.5	378		762.5	
	70600251	IMPACT ATTENUATORS, TEMPORARY (NON- REDIRECTIVE, NARROW), TEST LEVEL 3	EACH	8	2		6	
	70600350	IMPACT ATTENUATORS, RELOCATE (NON- REDIRECTIVE), TEST LEVEL 3	EACH	8	2		6	
*	78009004	MODIFIED URETHANE PAVEMENT MARKING - LINE 4"	FOOT	8,992	3,080		5,912	
*	78200410	GUARDRAIL MARKERS, TYPE A	EACH	90	35		55	
*	78200510	BARRIER WALL MARKERS, TYPE A	EACH	8	4		4	
*	78201000	TERMINAL MARKER - DIRECT APPLIED	EACH	7	4		3	
	78300100	PAVEMENT MARKING REMOVAL	SQ FT	1,227	748		479	
	X0900025	INTERNALLY CURED CONCRETE SUPERSTRUCTURE	CU YD	93.9				93.9
	X4401198	HOT-MIX ASPHALT SURFACE REMOVAL, VARIABLE DEPTH	SQ YD	1,567	1,567			
	X5860110	GRANULAR BACKFILL FOR STRUCTURES	CU YD	261		142		119

* SPECIALTY ITEMS

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STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

SUMMARY OF QUANTITIES
IL 97 OVER HAW CREEK TRIBUTARY

SCALE: | SHEET 7 OF 7A SHEETS | STA. | TO STA.

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
626	42-(B,B-1) BR-1	KNOX	152	11
		CONTRACT NO. 68754		
	ILLINOIS FED. AID PROJECT			

CODE NO.	ITEM	UNIT	TOTAL QUANTITY	CONSTRUCTION CODE			
				HAW CREEK TRIBUTARY		LITTLE HAW CREEK	
				0004	0011	0004	0011
				ROADWAY	STRUCTURAL	ROADWAY	STRUCTURAL
X6062700	CONCRETE GUTTER, TYPE A (SPECIAL)	FOOT	307			307	
X6330725	STEEL PLATE BEAM GUARDRAIL (SHORT RADIUS)	FOOT	54			54	
X7040125	PINNING TEMPORARY CONCRETE BARRIER	EACH	558	189		369	
Z0001002	GUARDRAIL AGGREGATE EROSION CONTROL	TON	574	391		183	
Z0001900	ASBESTOS BEARING PAD REMOVAL	EACH	44		22		22
Z0013798	CONSTRUCTION LAYOUT	L SUM	1	0.5		0.5	
Z0022800	FENCE REMOVAL	FOOT	378			378	
Z0046304	PIPE UNDERDRAINS FOR STRUCTURES 4"	FOOT	288		143		145
Z0073002	TEMPORARY SOIL RETENTION SYSTEM	SQ FT	1,200		761		439

* SPECIALTY ITEM

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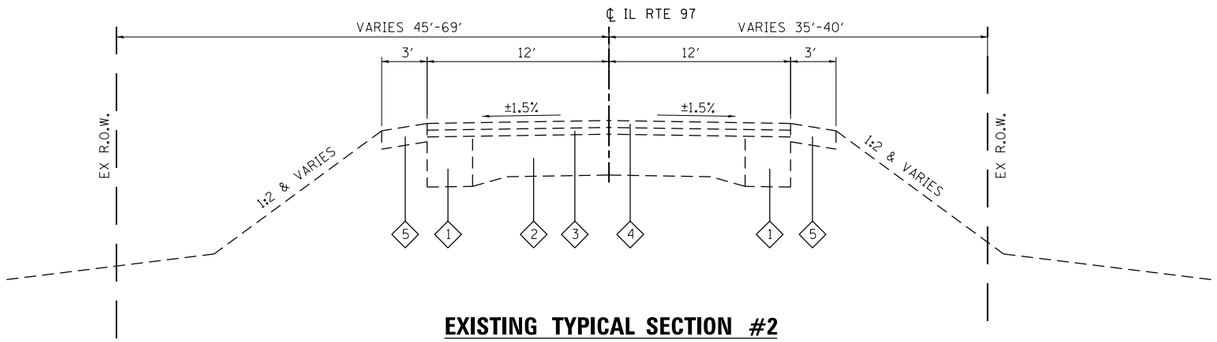
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

SUMMARY OF QUANTITIES
IL 97 OVER HAW CREEK TRIBUTARY

SCALE: | SHEET 7A OF 7A SHEETS | STA. | TO STA.

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
626	42-18,8-D BR-1	KNOX	152	11A
		CONTRACT NO. 68754		
	ILLINOIS	FED. AID PROJECT		

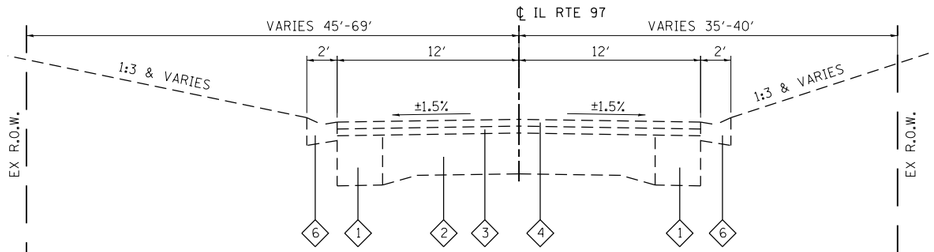


EXISTING TYPICAL SECTION #2

STA. 394+80 TO STA. 400+28
BRIDGE OMISSION: STA. 396+96 TO STA. 397+28

TYPICAL SECTION LEGEND

1. EXISTING BITUMINOUS BASE COURSE WIDENING
2. EXISTING PCC PAVEMENT
3. EXISTING BITUMINOUS OVERLAY
4. EXISTING BITUMINOUS SURFACE COURSE
5. EXISTING AGGREGATE SHOULDERS
6. EXISTING CONCRETE GUTTER
7. PROPOSED HMA SURFACE COURSE, MIX "D", N50, 2"
8. PROPOSED HMA SURFACE REMOVAL, VARIABLE DEPTH
9. PROPOSED POLYMERIZED BITUMINOUS MATERIALS (PRIME COAT)
10. PROPOSED TEMPORARY BASE COURSE WIDENING, 8" (SEE STAGING TYPICAL SECTIONS)
11. PROPOSED SUBBASE GRANULAR MATERIAL, TYPE B 4"
12. PROPOSED GUARDRAIL AGGREGATE EROSION CONTROL, 8"
13. PROPOSED TOPSOIL FURNISH AND PLACE, 4"
14. PROPOSED EMBANKMENT
15. PROPOSED EPOXY PAVEMENT MARKING - LINE, 4"



EXISTING TYPICAL SECTION #1

STA. 393+20 TO STA. 394+80
STA. 400+28 TO STA. 400+90

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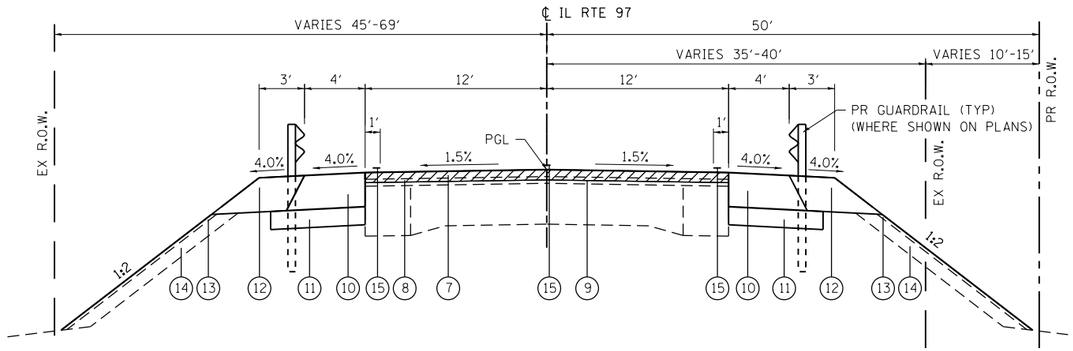
DEPARTMENT OF TRANSPORTATION

TYPICAL SECTIONS
IL 97 OVER HAW CREEK TRIBUTARY

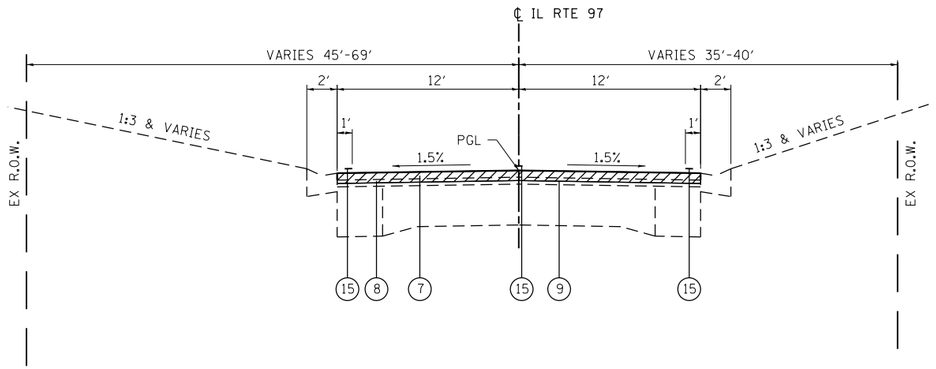
SCALE: | SHEET 1 OF 2 SHEETS | STA. | TO STA.

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
626	42-(B,B-1) BR-1	KNOX	152	12
		CONTRACT NO. 68754		
	ILLINOIS FED. AID PROJECT			



PROPOSED TYPICAL SECTION #2

STA. 394+80 TO STA. 400+28
STRUCTURE AND BRIDGE APPROACH PAVEMENT OMISSION: STA. 396+35.17 TO STA. 397+71.83



PROPOSED TYPICAL SECTION #1

STA. 393+20 TO STA. 394+80
STA. 400+28 TO STA. 400+90

TYPICAL SECTION LEGEND

1. EXISTING BITUMINOUS BASE COURSE WIDENING
2. EXISTING PCC PAVEMENT
3. EXISTING BITUMINOUS OVERLAY
4. EXISTING BITUMINOUS SURFACE COURSE
5. EXISTING AGGREGATE SHOULDERS
6. EXISTING CONCRETE GUTTER
7. PROPOSED HMA SURFACE COURSE, MIX "D", N50, 2"
8. PROPOSED HMA SURFACE REMOVAL, VARIABLE DEPTH
9. PROPOSED POLYMERIZED BITUMINOUS MATERIALS (PRIME COAT)
10. PROPOSED TEMPORARY BASE COURSE WIDENING, 8" (SEE STAGING TYPICAL SECTIONS)
11. PROPOSED SUBBASE GRANULAR MATERIAL, TYPE B 4"
12. PROPOSED GUARDRAIL AGGREGATE EROSION CONTROL, 8" [1]
13. PROPOSED TOPSOIL FURNISH AND PLACE, 4"
14. PROPOSED EMBANKMENT
15. PROPOSED EPOXY PAVEMENT MARKING - LINE, 4"

TYPICAL SECTION NOTES

[1] SEE DISTRICT 4 STANDARDS FOR EROSION CONTROL AGGREGATE REQUIREMENTS. THIS ITEM IS ONLY REQUIRED BEHIND PROPOSED GUARDRAIL. SEE PLAN AND PROFILE SHEETS FOR EXACT LOCATIONS.

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DEPARTMENT OF TRANSPORTATION

TYPICAL SECTIONS
IL 97 OVER HAW CREEK TRIBUTARY

SCALE: | SHEET 2 OF 2 SHEETS | STA. | TO STA.

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
626	42-(B,B-1) BR-1	KNOX	152	13
		CONTRACT NO. 68754		
	ILLINOIS FED. AID PROJECT			

EARTHWORK SCHEDULE

STATION	STATION	STAGE	EARTH EXCAVATION (CU YD)	EARTH EXCAVATION ADJUSTED FOR SHRINKAGE (NOTE 1) (CU YD)	EMBANKMENT (NOTE 2) (CU YD)	EARTHWORK BALANCE WASTE (+) OR SHORTAGE (-) (NOTE 3) (CU YD)	TOPSOIL FURNISH & PLACE 4" (SQ YD)
395+00	396+62	1	340	253	12	242	29
395+00	396+62	2	335	250	100	150	233
397+41	400+00	1	95	68	164	-96	396
397+41	400+00	2	100	75	2	73	78
TOTAL			870	650	280	370	740

EARTHWORK NOTES:

1. ESTIMATED SHRINKAGE FACTOR = 25%.
2. APPROXIMATE EMBANKMENT QUANTITY IS SHOWN FOR INFORMATION ONLY.
3. APPROXIMATE EARTHWORK BALANCE IS SHOWN FOR INFORMATION ONLY.

GUARDRAIL SCHEDULE

STATION	OFFSET	STATION	OFFSET	SPBGR TY A 6FT POSTS (FOOT)	TRAF BAR TERM T 6 (EACH)	TR BAR TRM T1 SPL TAN (EACH)	GUARDRAIL REMOV (FT)	GUARDRAIL MKR TYPE A (EACH)	BAR WALL MKR TYPE A (EACH)	TERMINAL MARKER DA (EACH)	GDRL AGG EROS CONT (TONS)
395+32	LT	396+07	LT	75.0	1	1	166	7		1	78.7
395+57	RT	396+07	RT	50.0	1	1	178	6		1	72.6
396+50	LT	397+57	LT						2		
396+50	RT	397+57	RT						2		
398+00	LT	399+75	LT	175.0	1	1	229	11		1	119.2
398+00	RT	399+63	RT	162.5	1	1	217	11		1	120.3
TOTAL				462.5	4	4	790	35	4	4	391

PAVEMENT SCHEDULE

STATION	STATION	OFFSET	SUB GRAN MAT B 4 (SQ YD)	BASE CSE WID 8 (SQ YD)	AGG SURF CSE B (TON)	P BIT MATLS PR CT (LBS)	HMA SURF REM BUTT JT (SQ YD)	TEMPORARY RAMP (SQ YD)	HMA SC "D" N50 (NOTE 1) (TON)	BR APPR PVT CON (PCC) (SQ YD)	PAVEMENT REM (SQ YD)	HMA SURF REM VAR DP (SQ YD)
393+20	396+29	CL				660			92			764
393+20	393+25	CL						13				
393+20	393+50	CL					82					
394+78	396+29	LT	83	66								
394+78	396+29	RT	82	65								
396+29	396+75	CL									154	
396+29	396+35	CL								22		
397+48	397+78	CL									99	
397+72	397+78	CL								22		
397+78	400+28	LT	140	111								
397+78	400+29	RT	141	117								
397+78	400+90	CL				666			93			803
400+61	400+61	RT			27							
400+60	400+90	CL					80					
400+85	400+90	CL						13				
TOTAL			446	359	27	1,326	162	26	186	44	253	1,567

PAVEMENT NOTES:

1. APPLICATION RATES USED FOR QUANTITY ESTIMATES ARE AS FOLLOWS:
   HOT-MIX ASPHALT: 112 LBS / SY / INCH THICKNESS

MISCELLANEOUS PAY ITEMS

DESCRIPTION	UNIT	QUANTITY
ENGINEER'S FIELD OFFICE, TYPE A	CAL MO	4
ENGINEER'S FIELD LABORATORY	CAL MO	4
MOBILIZATION	L SUM	0.5
TRAFFIC CONTROL AND PROTECTION, STANDARD 701321	EACH	1
TRAFFIC CONTROL AND PROTECTION, STANDARD 701201	L SUM	0.5
TRAFFIC CONTROL AND PROTECTION, STANDARD 701306	L SUM	0.5
TRAFFIC CONTROL AND PROTECTION, STANDARD 701326	L SUM	0.5
TRAFFIC CONTROL SURVEILLANCE	CAL DA	10
TEMPORARY BRIDGE TRAFFIC SIGNALS	EACH	1
TEMPORARY RUMBLE STRIPS	EACH	6
CONSTRUCTION LAYOUT	L SUM	0.5

DRAINAGE SCHEDULE

STATION	OFFSET	STATION	OFFSET	STONE DUMP RIP CL A4 (SQ YD)	FILTER FABRIC (SQ YD)	GUTTER REM (FOOT)	PIPE ELBOW 12 (EACH)	MET END SEC 12 (EACH)	PIPE DRAIN 12 (FOOT)	CLASS SI CONC OUTLET (CU YD)	CONC CURB TB (FOOT)	CONC THRUST BLOCK (EACH)	TY G INLET BOX 610001 (EACH)
394+85	RT	395+24	RT	6	6	39				4.0			
397+89	RT	397+89	RT	5	5		2	1	24		15	1	1
397+89	LT	397+89	LT	5	5		2	1	23		15	1	1
400+15	RT	400+15	RT	7	7								
TOTAL				23	23	39	4	2	47	4.0	30	2	2

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TRAFFIC CONTROL ITEMS

STATION	STATION	OFFSET	TEMP PVT MK LINE 4 (FOOT)	TEMP PVT MK LINE 24 (FOOT)	PAVT MARK TAPE T4 4 (FOOT)	WORK ZONE PAVT MK REM (SQ FT)	TEMP CONC BARRIER (FOOT)	REL TEMP CONC BARRIER (FOOT)	IMP ATTN TEMP NRN TL3 (EACH)	IMP ATTN REL NRD TL3 (EACH)	PIN TEMP CONC BARRIER (EACH)
STAGE 1											
393+20	400+90	LT	680			227					
393+20	400+90	RT	441			147					
393+20		RT		12		24					
400+90		LT		12		24					
395+13	399+04	CL					378				93
395+13		CL							1		
399+04		CL							1		
STAGE 2											
393+20	396+29	LT	151			50					
393+20	396+29	RT	289			96					
396+29	397+78	LT			149	50					
396+29	397+78	RT			149	50					
395+13	399+04	CL					21	378			96
394+90		CL								1	
399+04		CL								1	
397+78	400+90	LT	142			47					
397+78	400+90	RT	242			81					
TOTAL			1,945	24	298	796	399	378	2	2	189

SEEDING SCHEDULE

STATION	STATION	OFFSET	SEEDING CL 3A (ACRE)	NITROGEN FERT NUTR (NOTE 1) (POUND)	PHOSPHORUS FERT NUTR (NOTE 1) (POUND)	POTASSIUM FERT NUTR (NOTE 1) (POUND)
393+20	396+52	LT	0.10	9	9	9
393+20	396+52	RT	0.05	5	5	5
397+53	400+90	LT	0.06	5	5	5
397+53	400+90	RT	0.10	9	9	9
TOTAL			0.5	28	28	28

ROW /SURVEY MARKER

STATION	OFFSET	FUR ERECT ROW MARKERS (EACH)	PERM SURV MKRS, T1 (EACH)
392+00	CL		1
395+50	35' RT	1	
396+00	50' RT	1	
396+65	18' RT		1
399+00	50' RT	1	
399+50	35' RT	1	
403+00	CL		1
TOTAL		4	3

EROSION CONTROL SCHEDULE

STATION	STATION	OFFSET	EROSION CONTR BLANKET (SQ YD)	TEMP EROS CONTR SEED (NOTE 1) (POUND)	TEMP DITCH CHECKS (FOOT)	PERIMETER EROS BAR (FOOT)	INLET & PIPE PROTECTION (EACH)
394+50	396+52	LT	490	20.4			
395+00	396+52	RT	150	10.3			
394+85		LT			5		
394+89	396+47	LT				207	
395+02	396+47	RT				204	
395+28		RT			5		
397+53	400+00	LT	347	13.0			
397+53	400+50	RT	479	20.1			
397+57	400+16	RT				297	
397+65	400+00	LT				254	
397+89		LT/RT					2
400+14		RT			5		
400+21		LT			5		
TOTAL			1466	64	20	962	2

EROSION CONTROL NOTES:

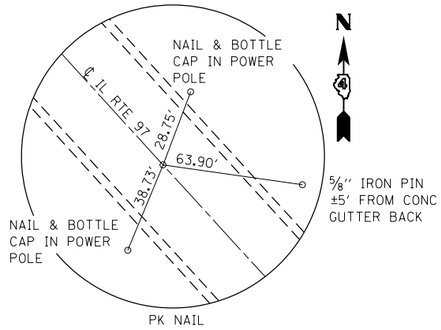
1. THE QUANTITY FOR TEMPORARY EROSION CONTROL SEEDING ASSUMES TWO SEPARATE APPLICATIONS AT A RATE OF 100 POUNDS/ACRE PER APPLICATION. THE CONTRACTOR SHALL APPLY AS NECESSARY AND AS DIRECTED BY THE ENGINEER IN THE FIELD.

TREE REMOVAL

STATION	STATION	OFFSET	TREE REMOV ACRES (ACRE)
395+25	39702	RT	0.07
397+38	39946	RT	0.09
395+43	39702	LT	0.02
397+38	39807	LT	0.03
TOTAL			0.25

PAVEMENT MARKING SCHEDULE

STATION	OFFSET	STATION	OFFSET	COMMENT	MOD URETH PM LINE 4 (FOOT)	PAVT MARK REMOV (SQ FT)	RAISED REFLECTIVE PAVEMENT MARKER (EACH)
393+20	LT	400+90	LT	EDGE LINE	770	147	
393+20	RT	400+90	RT	EDGE LINE	770	453	10
393+20	CL	400+90	CL	CENTERLINE	1540	147	
TOTAL					3,080	748	10



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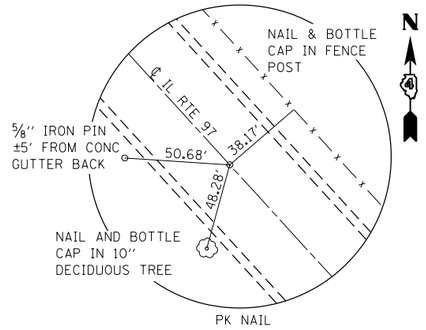

POT STA 403+00.00
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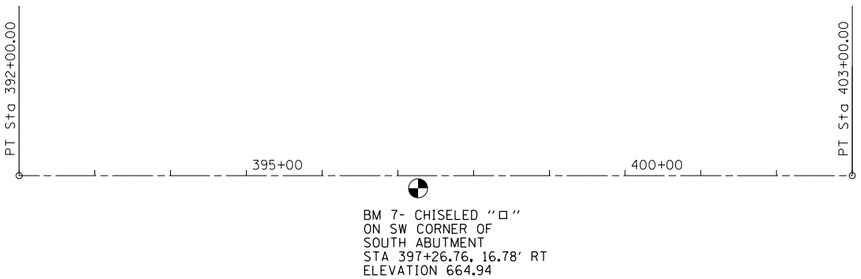
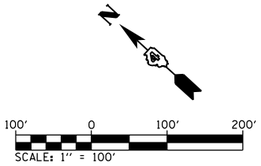
E: 2,279,712.24



BM 7- CHISELED "□"
ON SW CORNER OF
SOUTH ABUTMENT
STA 397+26.76, 16.78' RT
ELEVATION 664.94



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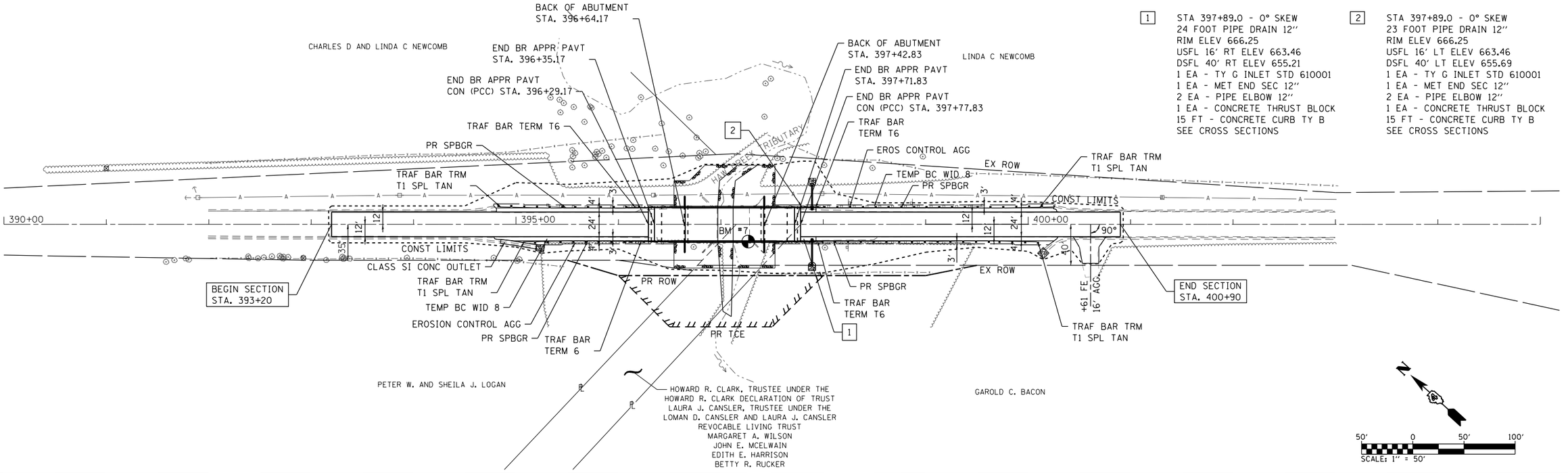
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

ALIGNMENT TIES & BENCHMARKS
IL 97 OVER HAW CREEK TRIBUTARY

SCALE: 1"=100' | SHEET 1 OF 1 SHEETS | STA. | TO STA.

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
626	42-(B,B-1) BR-1	KNOX	152	16
		CONTRACT NO. 68754		
	ILLINOIS FED. AID PROJECT			



PLAN
SURVEYED
PLOTTED
ALIGNMENT CHECKED
RT. OF WAY CHECKED
CADD FILE NAME
NOTE BOOK
NO.
BY
DATE

PROFILE
SURVEYED
PLOTTED
PROFILE CHECKED
BM. NOTED
STRUCTURE NOTATNS CHKD
NOTE BOOK
NO.
BY
DATE

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STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

PLAN & PROFILE SHEETS
IL 97 OVER HAW CREEK TRIBUTARY

SCALE: 1"=50' | SHEET 1 OF 1 SHEETS | STA. 393+20 TO STA. 400+90

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
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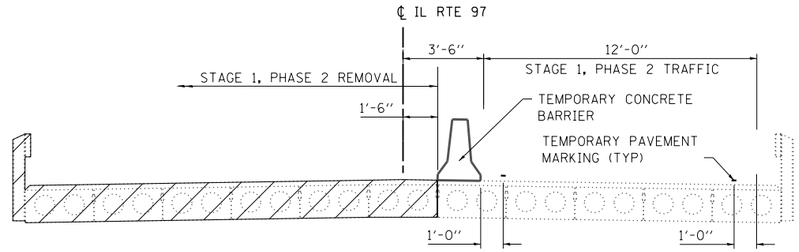
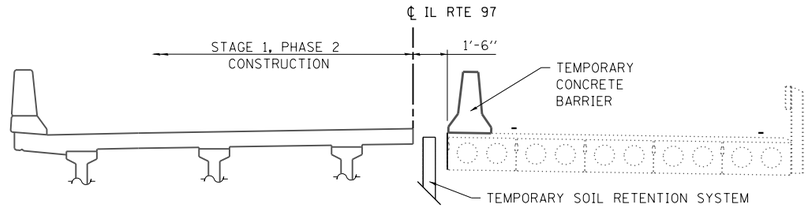
		CONTRACT NO. 68754		
	ILLINOIS FED. AID PROJECT			



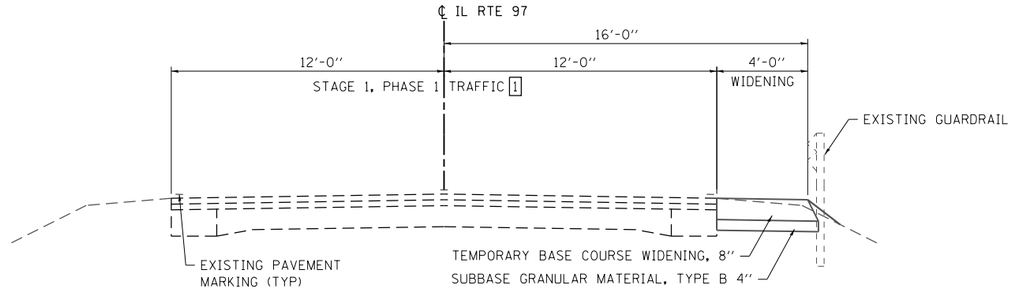
STAGE 1 BRIDGE REMOVAL TYPICAL SECTION

(LOOKING SOUTH AT STRUCTURE)
FOR INFORMATION ONLY



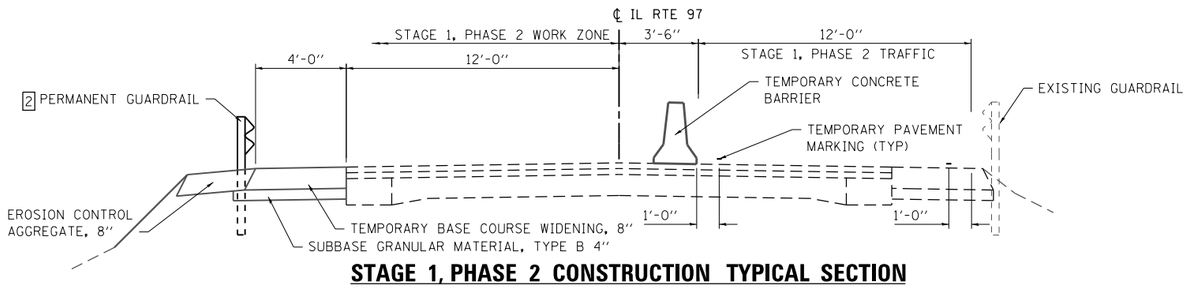
STAGE 1 BRIDGE CONSTRUCTION TYPICAL SECTION

(LOOKING SOUTH AT STRUCTURE)
FOR INFORMATION ONLY



STAGE 1, PHASE 1 CONSTRUCTION TYPICAL SECTION

(NORTH OF STRUCTURE, LOOKING SOUTH)



STAGE 1, PHASE 2 CONSTRUCTION TYPICAL SECTION

(NORTH OF STRUCTURE, LOOKING SOUTH)

ADDITIONAL NOTES

1 TWO-WAY TRAFFIC SHALL BE PERMITTED DURING NON-CONSTRUCTION HOURS. SEE HWY STANDARD 701326 FOR LANE CLOSURE PROCEDURES DURING WIDENING OPERATIONS.

2 THE PERMANENT GUARDRAIL SHALL BE BUILT TALL ENOUGH TO MEET THE HEIGHT REQUIREMENTS LISTED ON HWY STD 630001 AFTER SURFACE COURSE HAS BEEN PLACED.

STAGE CONSTRUCTION GENERAL NOTES

1. ONE LANE OF TRAFFIC ON ILLINOIS ROUTE 97 SHALL BE MAINTAINED AT ALL TIMES.
2. EMERGENCY ACCESS SHALL BE PROVIDED AT ALL TIMES.

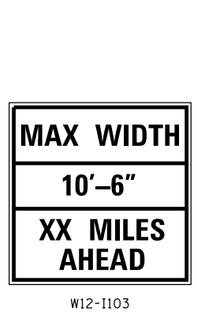
SUGGESTED STAGE 1 CONSTRUCTION

PHASE 1

1. UTILIZING TRAFFIC CONTROL AND PROTECTION, STANDARD 701326, REMOVE THE EXISTING SHOULDER AND CONSTRUCT THE TEMPORARY BASE COURSE WIDENING, 8" ON THE RT SIDE OF THE ROADWAY FROM STA. 394+78 TO STA. 400+29. TRAFFIC CONTROL SURVEILLANCE SHALL BE PAID FOR THROUGHOUT THE DURATION THAT STANDARD 701326 IS UTILIZED.
2. PLACE TEMPORARY CONCRETE BARRIER AND IMPACT ATTENUATORS AS SHOWN ON THE NEXT SHEET.
3. INSTALL TEMPORARY TRAFFIC SIGNALS PRIOR TO CLOSING THE LT HALF OF ROADWAY. SEE "TRAFFIC CONTROL NOTES" FOR MORE DETAILS.
4. INSTALL TEMPORARY PAVEMENT MARKING FOR STAGE 1, PHASE 2 TRAFFIC.

PHASE 2

1. UTILIZING TRAFFIC CONTROL AND PROTECTION, STANDARD 701321, DIRECT TRAFFIC TO THE RT LANE OF IL ROUTE 97.
2. CONSTRUCT TEMPORARY SOIL RETENTION SYSTEM AT THE NORTH AND SOUTH SIDE OF EXISTING STRUCTURE AND REMOVE THE LT SIDE OF THE EXISTING STRUCTURE.
3. CONSTRUCT THE LT SIDE OF THE BRIDGE AND BRIDGE APPROACH PAVEMENT.
4. CONSTRUCT THE TEMPORARY BASE COURSE WIDENING, 8" ON THE LT SIDE OF THE ROADWAY FROM STA. 394+80 TO STA. 400+28.
5. INSTALL GUARDRAIL AND EROS CONTROL AGG ON LT SIDE OF IL ROUTE 97 AND COMPLETE DRAINAGE AND GRADING IMPROVEMENTS.
6. INSTALL TEMPORARY PAVEMENT MARKING FOR STAGE 2 TRAFFIC.



W12-1103

PRIOR TO JUNCTION OF IL 97 AND IL 8 (2 ASSEMBLIES) AND INTERSECTION WITH US 150 (2 ASSEMBLIES)

SEE SPECIAL PROVISION "WIDTH RESTRICTION SIGNING" FOR FURTHER DETAILS.

WIDTH RESTRICTION SIGNING DETAILS

TRAFFIC CONTROL NOTES:

1. THREE PHASE SIGNAL OPERATION IS REQUIRED WHEN HWY STD 701321 IS IN EFFECT. THE ENGINEER OF TRAFFIC SHALL APPROVE ALL TIMING PARAMETERS. THE CONTRACTOR SHALL CONTACT PAUL GRANT, DISTRICT 4 TRAFFIC SIGNAL TECHNICIAN, AT (309) 671-4474, TWO WEEKS PRIOR TO SIGNAL TURN ON.
2. THE CONTRACTOR SHALL INSTALL DETECTOR LOOPS FOR USE WITH THE TEMPORARY TRAFFIC SIGNALS IN ACCORDANCE WITH HWY STD 701321. THE CONTRACTOR MAY ELECT TO UTILIZE MICROWAVE DETECTION.
3. THE TEMPORARY TRAFFIC SIGNAL INSTALLATION SHALL CONFORM TO ALL MUTCD REQUIREMENTS.
4. REMOVAL OF DETECTOR LOOPS AND RUMBLE STRIPS AFTER STAGED CONSTRUCTION SHALL BE COMPLETED TO THE SATISFACTION OF THE ENGINEER. ANY DAMAGE TO THE EXISTING PAVEMENT FROM THE RUMBLE STRIPS NEEDS TO BE REPAIRED AT THE CONTRACTOR'S EXPENSE. THERE WILL BE NO ADDITIONAL COMPENSATION.
5. ALL TEMPORARY STRIPING, REFLECTORS, ETC. SHALL BE PLACED PRIOR TO PLACING TEMPORARY CONCRETE BARRIERS.

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STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

STAGE 1 TYPICAL SECTIONS & STAGING NOTES
IL 97 OVER HAW CREEK TRIBUTARY

SCALE: | SHEET 1 OF 4 SHEETS | STA. | TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
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		CONTRACT NO. 68754		
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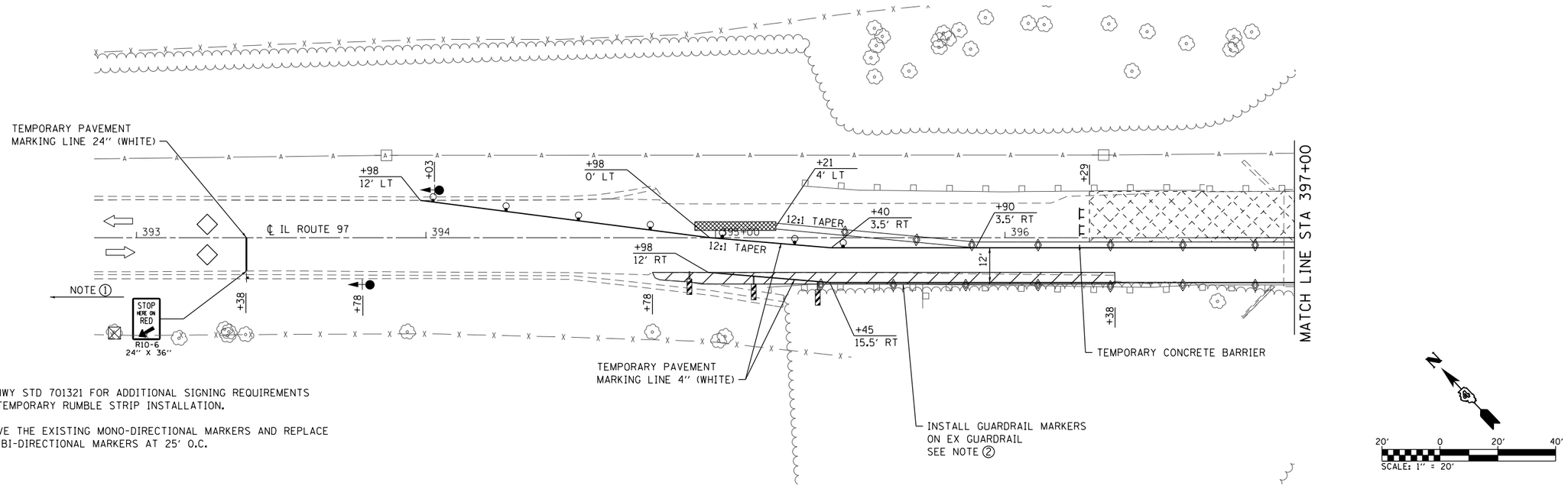
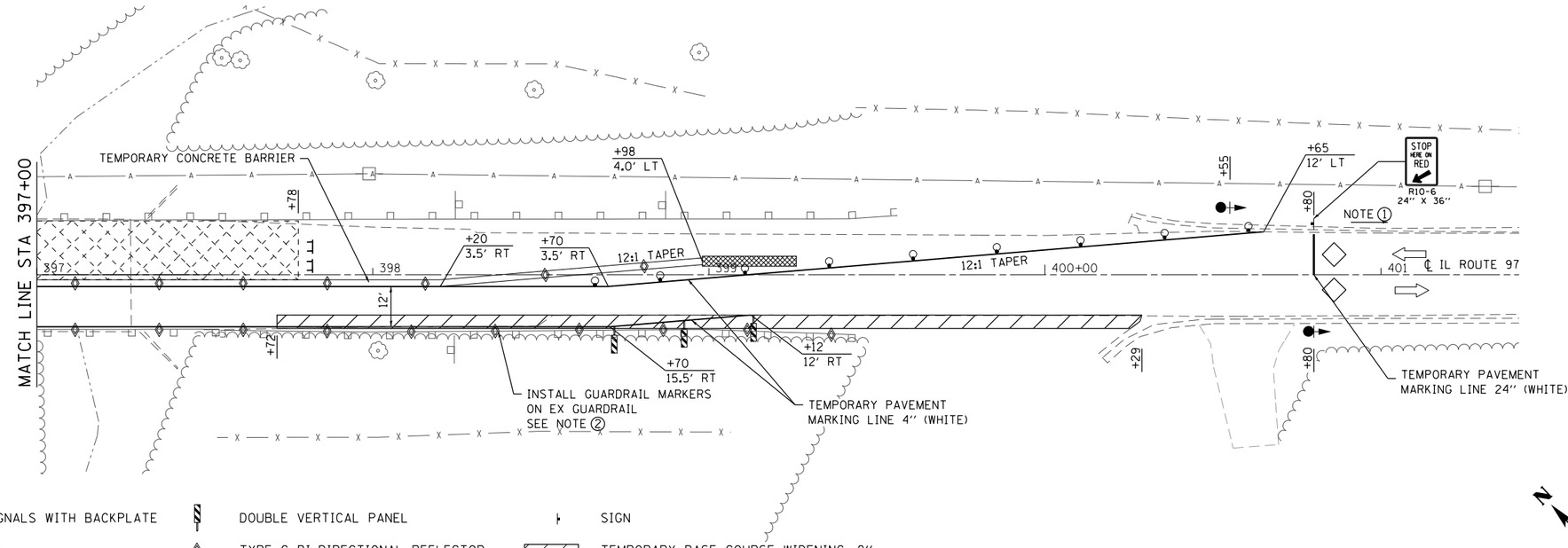


NOTES:

① SEE HWY STD 701321 FOR ADDITIONAL SIGNING REQUIREMENTS AND TEMPORARY RUMBLE STRIP INSTALLATION.

② REMOVE THE EXISTING MONO-DIRECTIONAL MARKERS AND REPLACE WITH BI-DIRECTIONAL MARKERS AT 25' O.C.



TRAFFIC CONTROL LEGEND

- TEMPORARY TRAFFIC SIGNALS WITH BACKPLATE
- DETECTOR LOOPS (6'x6')
- DRUM WITH STEADY BURNING LIGHT
- TEMPORARY PAVEMENT MARKING LINE, 24"
- IMPACT ATTENUATORS, TEMPORARY (NON-REDIRECTIVE) TEST LEVEL 3
- DOUBLE VERTICAL PANEL
- TYPE C BI-DIRECTIONAL REFLECTOR
- TYPE III BARRICADE WITH FLASHING LIGHTS
- STEADY BURNING LIGHTS AND DOUBLE VERTICAL PANELS
- WORK AREA
- SIGN
- TEMPORARY BASE COURSE WIDENING, 8"
- DIRECTION OF TRAFFIC

PLAN: SURVEYED | PLOTTED | ALIGNMENT CHECKED | RT. OF WAY CHECKED | CADD FILE NAME | NOTE BOOK | NO.

PROFILE: SURVEYED | PLOTTED | BORINGS CHECKED | BM. NOTED | STRUCTURE NOTATNS CHKD | NOTE BOOK | NO.

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STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

STAGE 1 CONSTRUCTION & TRAFFIC CONTROL
IL 97 OVER HAW CREEK TRIBUTARY

SCALE: 1" = 20' | SHEET 2 OF 4 SHEETS | STA. | TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
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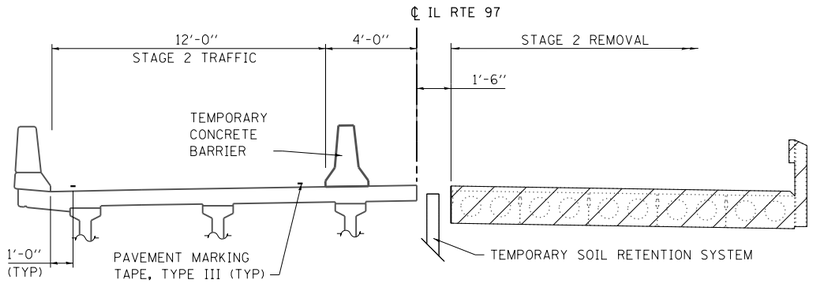
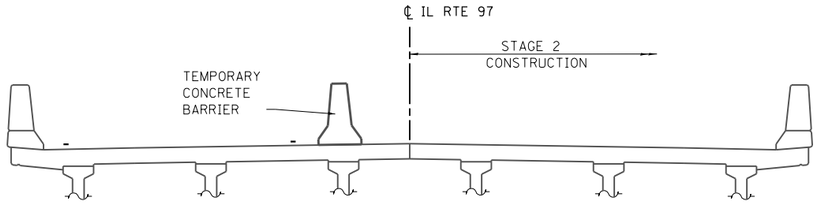
	ILLINOIS FED. AID PROJECT			



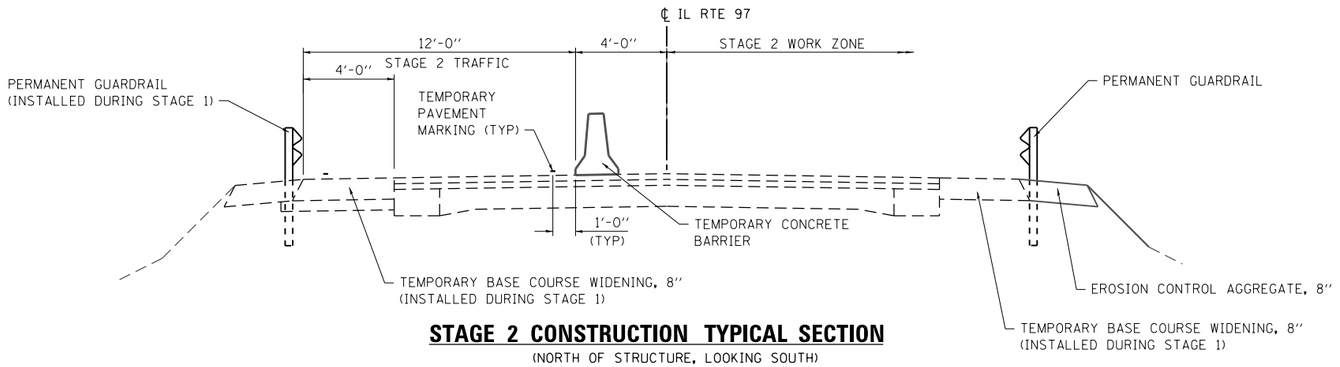
STAGE 2 BRIDGE REMOVAL TYPICAL SECTION

(LOOKING SOUTH AT STRUCTURE)
FOR INFORMATION ONLY



STAGE 2 BRIDGE CONSTRUCTION TYPICAL SECTION

(LOOKING SOUTH AT STRUCTURE)
FOR INFORMATION ONLY



STAGE 2 CONSTRUCTION TYPICAL SECTION

(NORTH OF STRUCTURE, LOOKING SOUTH)

SUGGESTED STAGE 2 & 3 CONSTRUCTION

SUGGESTED STAGE 2

1. UTILIZING TRAFFIC CONTROL AND PROTECTION, STANDARD 701321, DIRECT TRAFFIC TO THE LT LANE OF IL ROUTE 97.
2. REMOVE THE RT SIDE OF THE EXISTING STRUCTURE.
3. CONSTRUCT THE RT SIDE OF THE BRIDGE AND BRIDGE APPROACH PAVEMENT.
4. REMOVE EXISTING GUARDRAIL AND INSTALL GUARDRAIL AND EROS CONTROL AGG ON RT SIDE OF IL ROUTE 97 AND COMPLETE DRAINAGE AND GRADING IMPROVEMENTS.

SUGGESTED STAGE 3

1. PERFORM HMA SURFACE REMOVAL & BUTT JOINT ON THE LT & RT SIDES OF IL ROUTE 97 FROM STA. 393+20 TO STA. 396+29 AND FROM STA. 397+78 TO STA. 400+90.
2. CONSTRUCT PROPOSED HMA SURFACE COURSE FOR THE LT & RT SIDES OF IL ROUTE 97 FROM STA. 393+20 TO STA. 396+29 AND STA. 397+78 TO STA. 400+90.
3. CONSTRUCT PROPOSED ENTRANCE AND ALL REMAINING IMPROVEMENTS.

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STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

STAGE 2 TYPICAL SECTIONS & STAGING NOTES
IL 97 OVER HAW CREEK TRIBUTARY

SCALE: | SHEET 3 OF 4 SHEETS | STA. | TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
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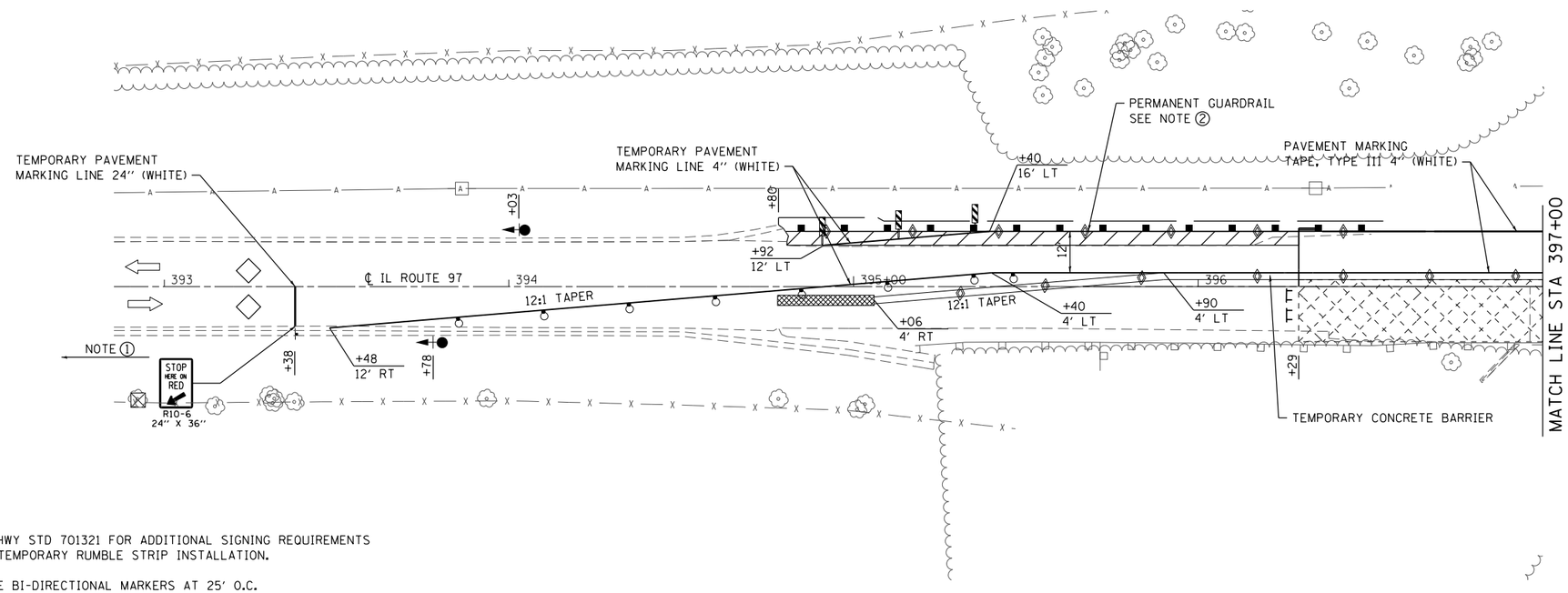
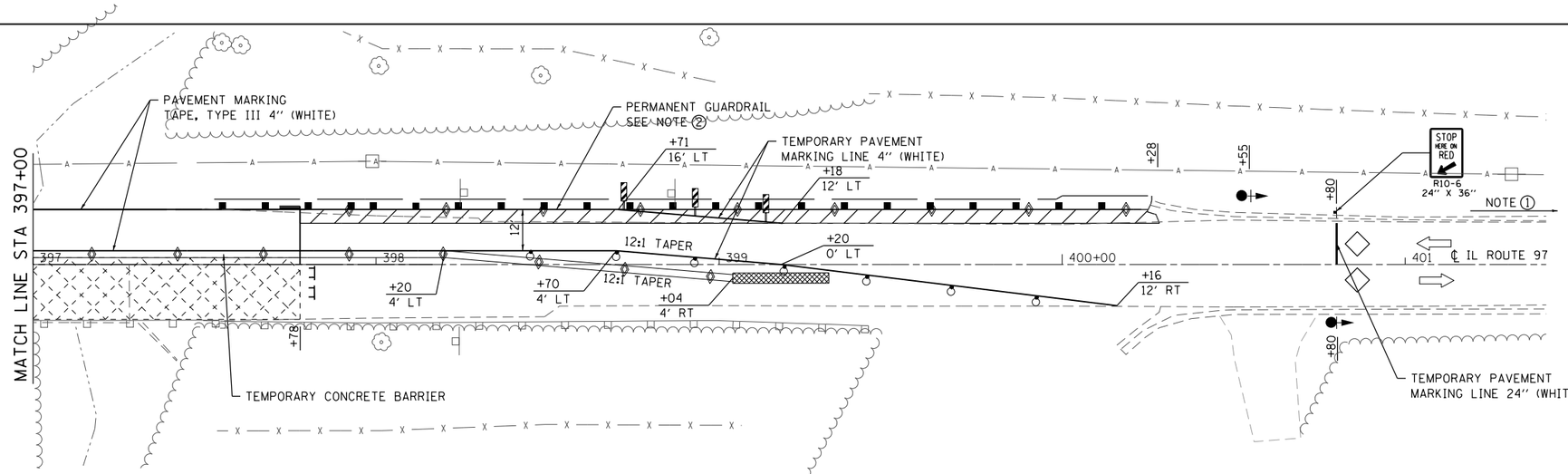
		CONTRACT NO. 68754		
	ILLINOIS FED. AID PROJECT			



NOTES;

① SEE HWY STD 701321 FOR ADDITIONAL SIGNING REQUIREMENTS AND TEMPORARY RUMBLE STRIP INSTALLATION.

② PLACE BI-DIRECTIONAL MARKERS AT 25' O.C.



TRAFFIC CONTROL LEGEND

- TEMPORARY TRAFFIC SIGNALS WITH BACKPLATE
- DETECTOR LOOPS (6'x6')
- DRUM WITH STEADY BURNING LIGHT
- TEMPORARY PAVEMENT MARKING LINE, 24"
- IMPACT ATTENUATORS, TEMPORARY (NON-REDIRECTIVE) TEST LEVEL 3
- DOUBLE VERTICAL PANEL
- TYPE C BI-DIRECTIONAL REFLECTOR
- TYPE III BARRICADE WITH FLASHING LIGHTS
- STEADY BURNING LIGHTS AND DOUBLE VERTICAL PANELS
- WORK AREA
- SIGN
- TEMPORARY BASE COURSE WIDENING, 8"
- DIRECTION OF TRAFFIC

PLAN: SURVEYED | PLOTTED | CROSS CHECKED | BM. NOTED | STRUCTURE NOTATNS CHKD | NOTE BOOK | NO.

PROFILE: SURVEYED | PLOTTED | CROSS CHECKED | BM. NOTED | STRUCTURE NOTATNS CHKD | NOTE BOOK | NO.

BY | DATE

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OATES ASSOCIATES Engineering + Architecture
ILLINOIS DESIGN FIRM LICENSE NO: 184.001115

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	DRAWN -	REVISED -
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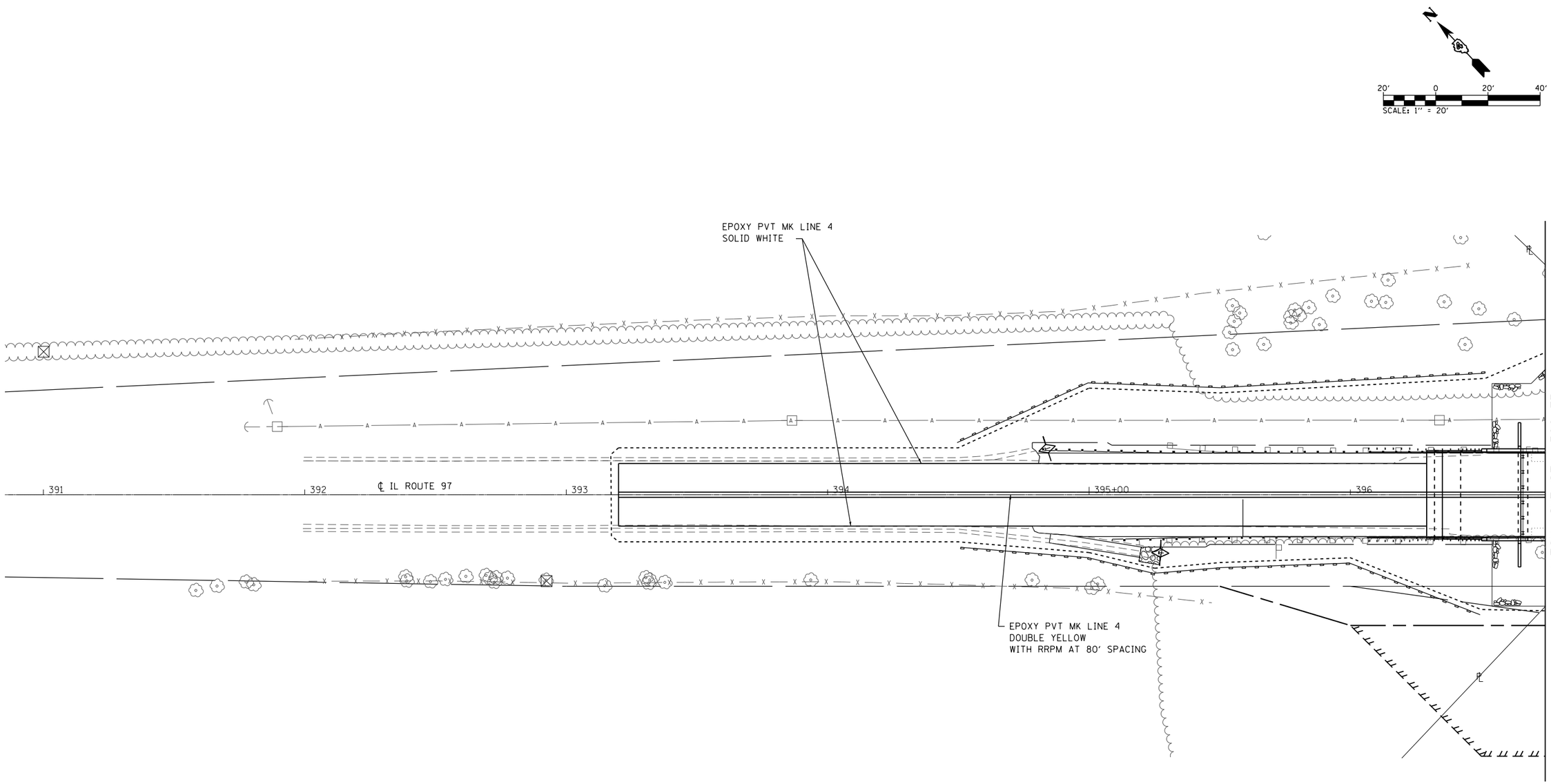
PLOT DATE = 10/14/2015	DATE -	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

STAGE 2 CONSTRUCTION & TRAFFIC CONTROL
IL 97 OVER HAW CREEK TRIBUTARY

SCALE: 1" = 20' | SHEET 4 OF 4 SHEETS | STA. | TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
626	42-(B,B-1) BR-1	KNOX	152	21
		CONTRACT NO. 68754		
	ILLINOIS FED. AID PROJECT			



EROSION CONTROL LEGEND

- LIMITS OF CONSTRUCTION
- TEMPORARY DITCH CHECK
- STONE DUMPED RIPRAP
- PERIMETER EROSION BARRIER SILT FILTER FENCE OR OTHER AS APPROVED BY THE ENGINEER
- INLET AND PIPE PROTECTION

NOTE;

EROSION CONTROL BLANKET SHALL BE PLACED AT ALL AREAS WHERE PERMANENT SEEDING IS REQUIRED BEHIND THE GUARDRAIL. BLANKET IS NOT SHOWN FOR CLARITY.

FILE NAME = H:\P\1015\WO 3 - IL 97 over Haw Creek\Microstation\CADD Sheets\D468754-sht-eros-pmk.dgn

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ILLINOIS DESIGN FIRM LICENSE NO: 184.001115

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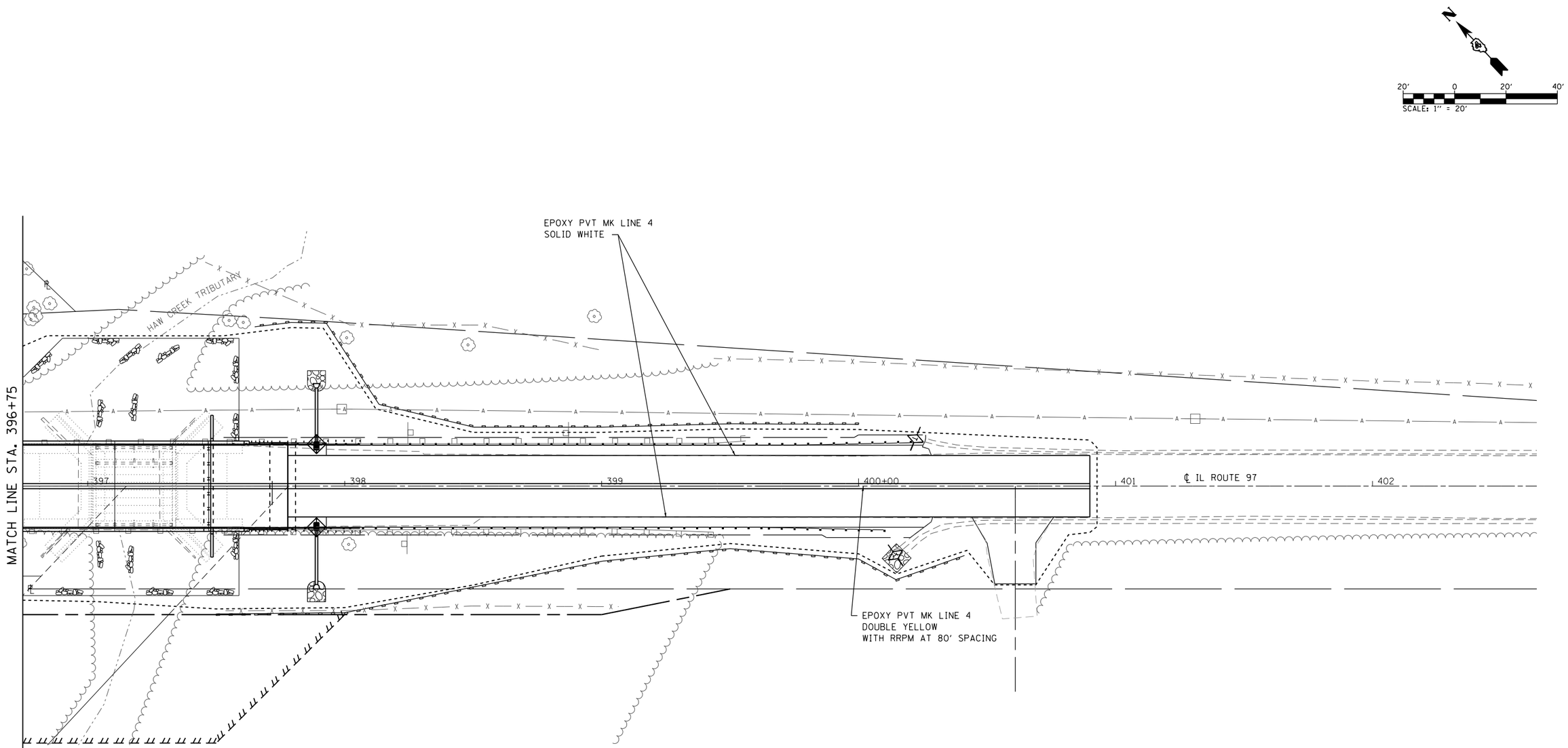
PLOT DATE = 10/14/2015	DATE -	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

EROSION CONTROL & PAVEMENT MARKING SHEET
IL 97 OVER HAW CREEK TRIBUTARY

SCALE: 1" = 20' | SHEET 1 OF 2 SHEETS | STA. | TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
626	42-(B,B-1) BR-1	KNOX	152	22
		CONTRACT NO. 68754		
	ILLINOIS FED. AID PROJECT			



EROSION CONTROL LEGEND

- LIMITS OF CONSTRUCTION
- TEMPORARY DITCH CHECK
- STONE DUMPED RIPRAP
- PERIMETER EROSION BARRIER SILT FILTER FENCE OR OTHER AS APPROVED BY THE ENGINEER
- INLET AND PIPE PROTECTION

NOTE;

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ILLINOIS DESIGN FIRM LICENSE NO: 184.001115

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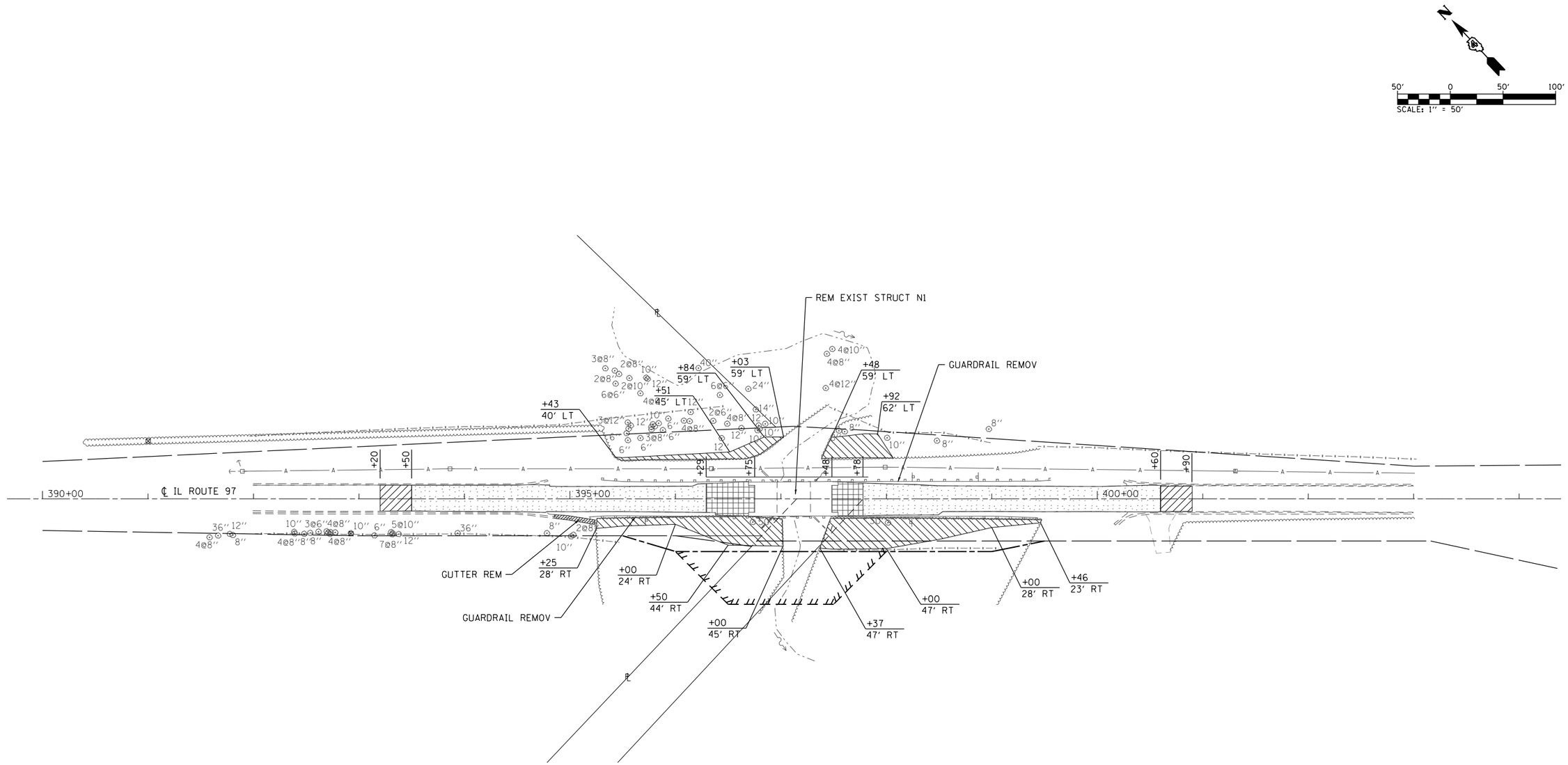
PLOT DATE = 10/14/2015	DATE -	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

EROSION CONTROL & PAVEMENT MARKING SHEET
IL 97 OVER HAW CREEK TRIBUTARY

SCALE: 1" = 20' | SHEET 2 OF 2 SHEETS | STA. | TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
626	42-(B,B-1) BR-1	KNOX	152	23
		CONTRACT NO. 68754		
	ILLINOIS FED. AID PROJECT			



REMOVAL LEGEND

- HMA SURF REM BUTT JT
- PAVEMENT REM
- HMA SURF REM VAR DP
- TREE REMOV ACRE

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DATES ASSOCIATES
Engineering + Architecture
ILLINOIS DESIGN FIRM LICENSE NO: 184.001115

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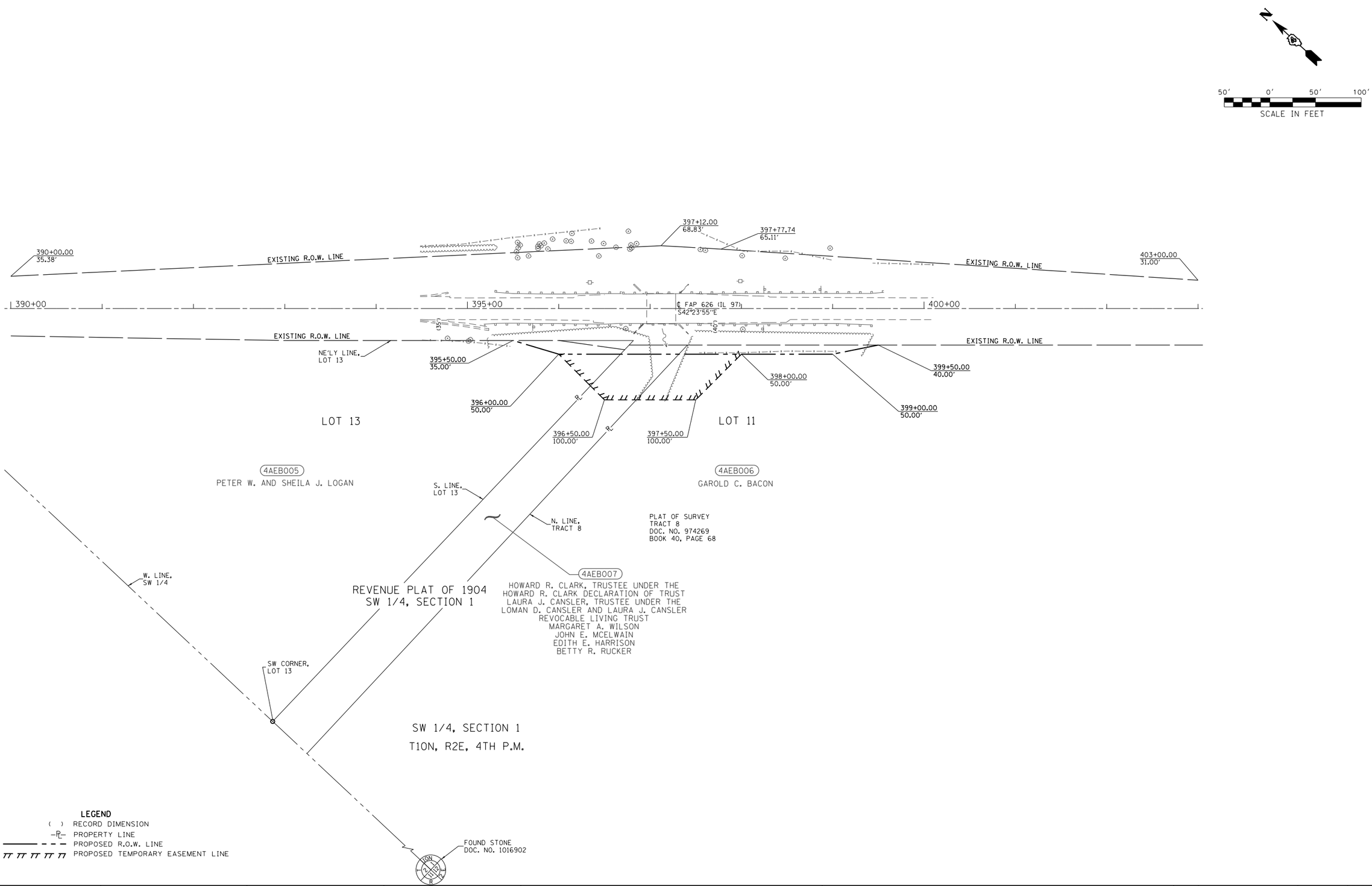
PLOT SCALE = 100.0000 ' / in.	CHECKED -	REVISED -
PLOT DATE = 10/14/2015	DATE -	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

REMOVAL PLAN SHEET
IL 97 OVER HAW CREEK TRIBUTARY

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

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
626	42-(B,B-1) BR-1	KNOX	152	24
		CONTRACT NO. 68754		
	ILLINOIS FED. AID PROJECT			



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CB PROJECT NO	PLOT DATE = 10/14/2015	DATE -	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

RIGHT OF WAY PLANS

	PROJECT IL 97		JOB NO. R94-004-10	
SCALE: 1"=50'	SHEET OF SHEETS		STA. 395+50.00	TO STA. 399+50.00

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
626	42-(B,BR-1)BR-1	KNOX	152	25
		CONTRACT NO. 68754		
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		

Bench Mark: BM 7 - Chiseled square on southwest corner of the south abutment. Sta. 397+26.76, 16.78' RT. Elev. 664.94.

Existing Structure: S.N. 048-0014 was originally built in 1926 as S.B.I. Route 8, Section 42B. In 1980, the superstructure and portions of the substructure were removed and replaced under Section (42B)BR. In 2008 and 2010, temporary steel support beams were installed under three of the beams. The structure consists of a single-span PPC deck beam superstructure supported by closed concrete abutments. The back to back abutment length is 33'-0" and the out to out width is 33'-0". Structure to be removed and replaced.

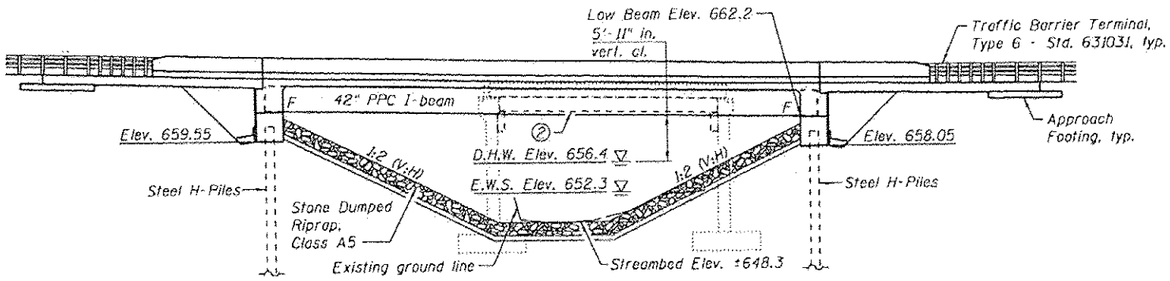
Traffic Control: One lane of traffic will be maintained utilizing stage construction.

Salvage: The existing steel beams located underneath the existing deck beams shall be carefully removed and salvaged. They shall be transported to the I.D.O.T bridge maintenance yard at:

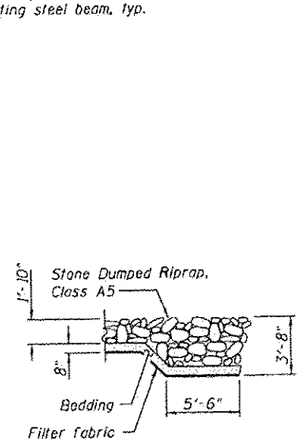
604 West Camp Street
East Peoria, IL 61611

Call 309-699-3822 to arrange delivery. I.D.O.T will unload beams.

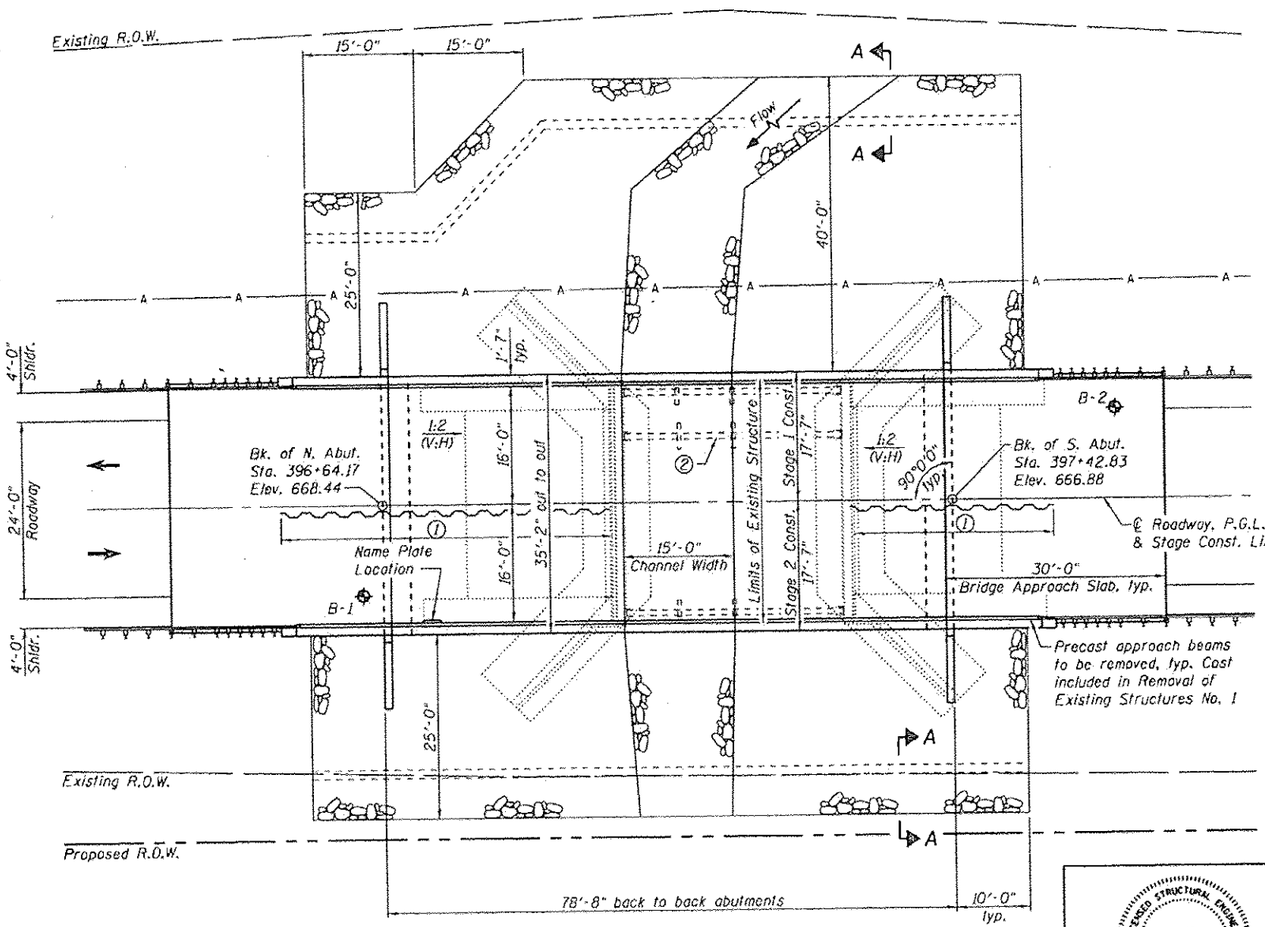
Notes:
① Temporary Soil Retention System.
② Existing steel beam, typ.



ELEVATION



SECTION A-A



PLAN

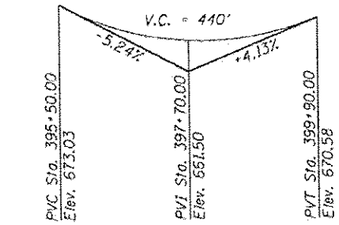
DESIGN SCOUR ELEVATION TABLE

Event / Limit State	Design Scour Elevations (ft.) N. Abut.	S. Abut.	Item 113
Q100	659.55	658.05	8
Q200	659.55	658.05	
Design	659.55	658.05	
Check	659.55	658.05	

WATERWAY INFORMATION

Drainage Area = 2.4 sq. mi. Existing Low Grade Elev. 666.2 at Sta. 398+00 Proposed Low Grade Elev. 666.6 at Sta. 397+96

Flood	Freq. Yr.	Q C.F.S.	Opening Sq. Ft. Exist.	Prop.	Nat. H.W.E.	Head - Ft. Exist.	Prop.	Headwater El. Exist.	Prop.
	10	827	161	203	655.1	0.2	0.1	655.3	655.2
Design	50	1,350	202	267	656.4	0.5	0.1	656.9	656.5
Base	100	1,600	217	292	656.8	0.8	0.2	657.6	657.0
Max. Calc.	500	2,190	246	342	657.8	1.3	0.6	659.1	658.4



PROFILE GRADE
(Along ℄ Roadway)

DESIGN SPECIFICATIONS

2012 AASHTO LRFD Bridge Design Specifications, 6th Edition with 2013 Interims

DESIGN STRESSES

FIELD UNITS
f'c = 3,500 psi
fy = 60,000 psi (Reinforcement)
PRECAST PRESTRESSED UNITS
f'c = 7,000 psi
f'ci = 6,000 psi
fpu = 270,000 psi (½" ϕ low-relax strands)
fpbt = 201,960 psi (½" ϕ low-relax strands)

LOADING HL-93

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

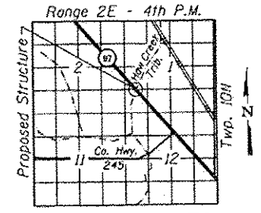
SEISMIC DATA

Seismic Performance Zone (SPZ) = 1
Design Spectral Acceleration at 1.0 sec. (SD1) = 0.07g
Design Spectral Acceleration at 0.2 sec. (SDS) = 0.12g
Soil Site Class = C

STATION 397+03.50
BUILT 20__ BY
STATE OF ILLINOIS
F.A.P. RT. 626 SEC. 42-(B,B-1)BR-1
LOADING HL-93
STR. NO. 048-0098

NAME PLATE

See Std. 515001



LOCATION SKETCH

APPROVED
For Structural Adequacy Only
Engineer of Bridges & Structures

LICENSED STRUCTURAL ENGINEER
DANIEL GEORGE LUTZ
081 006772
STATE OF ILLINOIS

DATE: 10/9/2015
EXPIRATION: 11/30/2016

GENERAL PLAN & ELEVATION
IL RTE. 97 OVER HAW CREEK TRIBUTARY
F.A.P. RTE. 626 - SEC. 42-(B,B-1)BR-1
KNOX COUNTY
STATION 397+03.50
STRUCTURE NO. 048-0098

FILE NAME = H:\P\R\ILSN\3 - IL 97 over Haw Creek\Structural\Final Plans\Microstation\#48098\68754-R01-General Plan & Elevation.dgn

DATES ASSOCIATES Engineering • Architecture
ILLINOIS DESIGN FIRM LICENSE NO: 184.001115

USER NAME = | PLOT SCALE = | PLOT DATE = 10/9/2015

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REVISED - | REVISED - | REVISED - | REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

SHEET NO. 1 OF 32 SHEETS

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
626	42-(B,B-1)BR-1	KNOX	152	26
		CONTRACT NO. 68754		
		ILLINOIS FED. AID PROJECT		

GENERAL NOTES

Reinforcement bars designated (E) shall be epoxy coated.

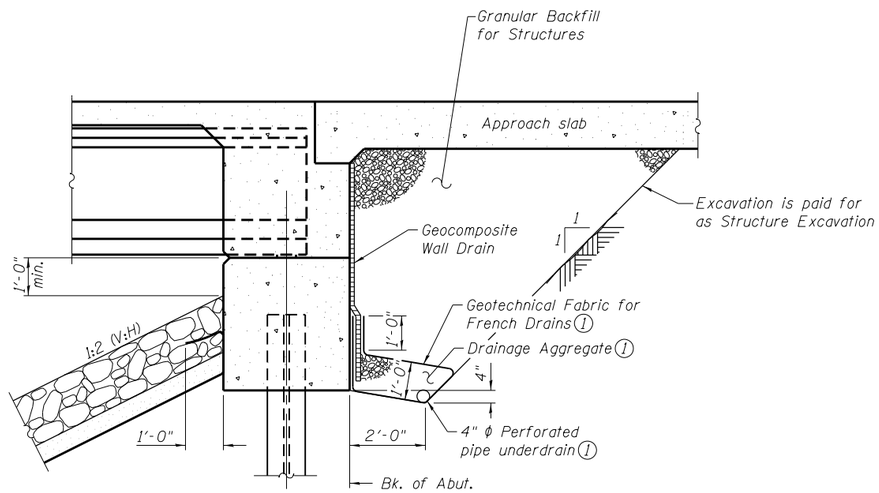
Layout of the slope protection system may be varied to suit ground conditions in the field as directed by the Engineer.

The Contractor is advised that the existing PPC Deck Beams are in a deteriorated condition with reduced load carrying capacity. It is the Contractor's responsibility to account for the condition of the beams when developing construction procedures for removal and replacement of the superstructure.

TOTAL BILL OF MATERIAL

ITEM	UNIT	SUPER	SUB	TOTAL
Stone Dumped Riprap, Class A5	Sq. Yd.	-	1,042	1,042
Filter Fabric	Sq. Yd.	-	1,042	1,042
Removal of Existing Structures No. 1	Each	-	-	1
Structure Excavation	Cu. Yd.	-	282	282
Concrete Structures	Cu. Yd.	-	68.8	68.8
Concrete Superstructure	Cu. Yd.	229.9	-	229.9
Bridge Deck Grooving	Sq. Yd.	459	-	459
Protective Coat	Sq. Yd.	583	-	583
Furnishing and Erecting Precast Prestressed Concrete I-Beams, 42 in.	Foot	456	-	456
Reinforcement Bars, Epoxy Coated	Pound	45,990	12,060	58,050
Bar Splicers	Each	385	108	493
Furnishing Steel Piles HP12x53	Foot	-	205	205
Driving Piles	Foot	-	205	205
Test Pile Steel HP12x53	Each	-	2	2
Name Plates	Each	1	-	1
Geocomposite Wall Drain	Sq. Yd.	-	76	76
Asbestos Bearing Pad Removal	Each	-	-	22
Pipe Underdrains for Structures 4"	Foot	-	143	143
Temporary Soil Retention System	Sq. Ft.	-	761	761
Granular Backfill for Structures	Cu. Yd.	-	142	142

INDEX OF SHEETS



SECTION THRU INTEGRAL ABUTMENT (2)

Notes:
(1) Included in the cost of Pipe Underdrains for Structures 4".
(2) 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).

FILE NAME = H:\P\10115\WO 3 - IL 97 over Haw Creek\Structural\Final Plans\Microstation\0480098-68754-002-General Data.dgn

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	PLOT SCALE =	DRAWN - KBC	REVISED -		
	PLOT DATE = 10/13/2015	CHECKED - SJN	REVISED -		

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
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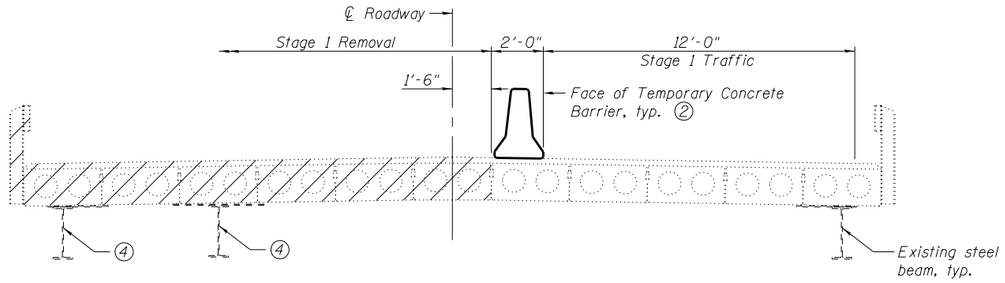
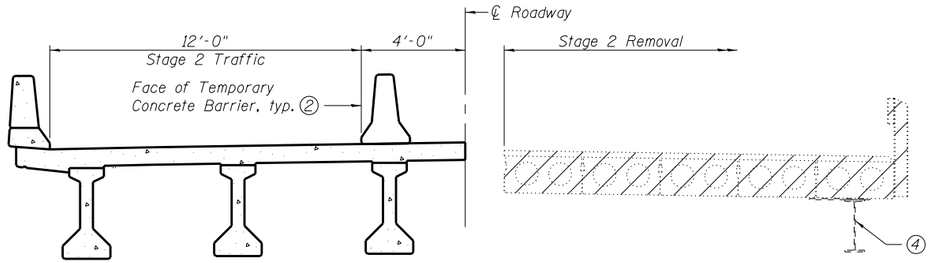
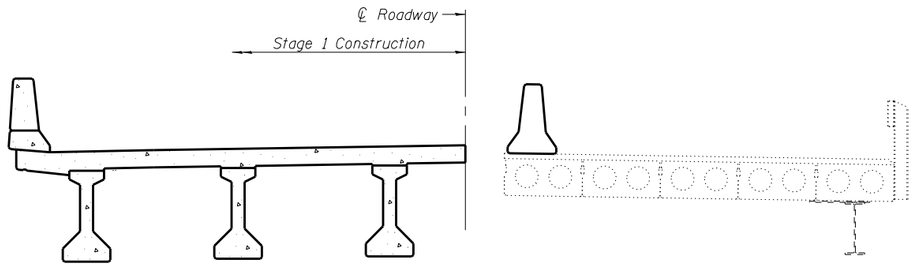
		CONTRACT NO. 68754		
	ILLINOIS FED. AID PROJECT			



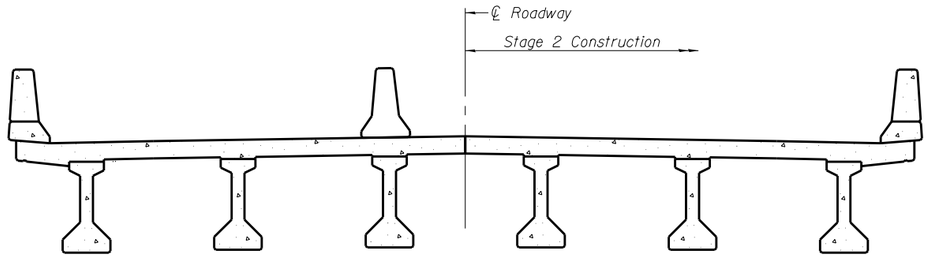
STAGE 1 REMOVAL ①



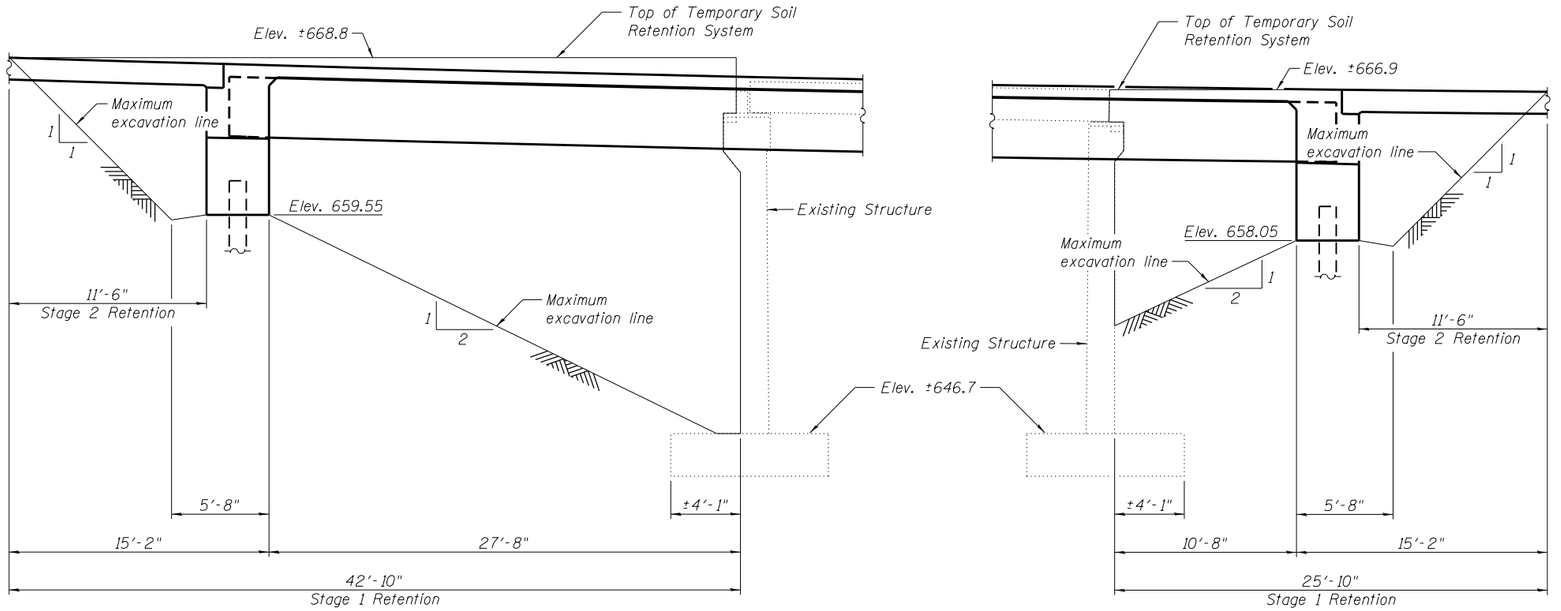
STAGE 2 REMOVAL ①



STAGE 1 CONSTRUCTION ①



STAGE 2 CONSTRUCTION ①



TEMPORARY SOIL RETENTION SYSTEM ③

Notes:
1. All views shown looking South.
2. For details of Temporary Concrete Barrier, see sheet 4 of 32. For quantity of Temporary Concrete Barrier and related traffic control, see roadway plans.
3. A cantilevered sheet piling design does not appear feasible and additional members or other retention systems may be necessary. The Contractor shall submit a temporary soil retention system design including plan details and calculations for review and acceptance by the Engineer.
4. Existing steel beam to be removed and salvaged. Cost included with Removal of Existing Structures No. 1.

FILE NAME = H:\P\10115\WO 3 - IL 97 over Haw Creek\Structural\Final Plans\Microstation\0480098-68754-003-Stage Construction Details.dgn

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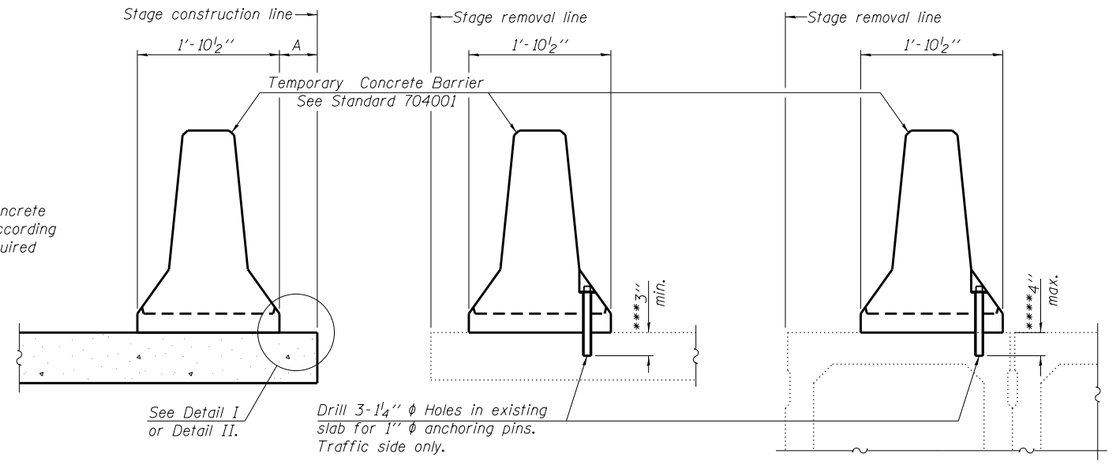
	PLOT SCALE =	DRAWN - KBC	REVISED -
	PLOT DATE = 10/13/2015	CHECKED - SJN	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

STAGE CONSTRUCTION DETAILS
STRUCTURE NO. 048-0098
SHEET NO. 3 OF 32 SHEETS

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
626	42-(B,B-1)BR-1	KNOX	152	28
		CONTRACT NO. 68754		
	ILLINOIS FED. AID PROJECT			

When "A" is 3'-1'' or less, the temporary concrete barrier shall be anchored to the new slab according to Detail I or Detail II. No anchorage is required when "A" is greater than 3'-1''.



NEW SLAB

EXISTING SLAB

EXISTING DECK BEAM

NOTES

Detail I - With Bar Splicer or Couplers:
Connect one (1) 1'' x 7' 'x ''W'' steel PL to the top layer of couplers with 2-⅝'' ϕ bolts screwed to coupler at approximate ℄ of each barrier panel.

Detail II - With Extended Reinforcement Bars:
Connect one (1) 1'' x 7'' x ''W'' steel PL to the concrete slab or concrete wearing surface with 2-⅝'' ϕ Expansion Anchors or cast in place inserts spaced between the top layer of reinforcement at approximate ℄ of each barrier panel.

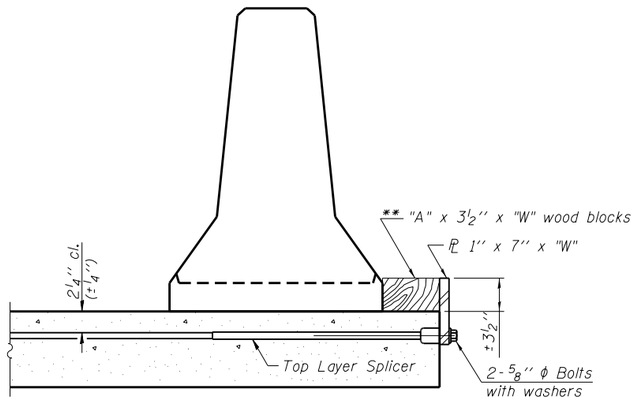
Cost of retainer assembly is included with Temporary Concrete Barrier.

The 1'' x 7'' x ''W'' plate shall not be removed until stage II construction forms and all reinforcement bars are in place and the concrete is ready to be placed.

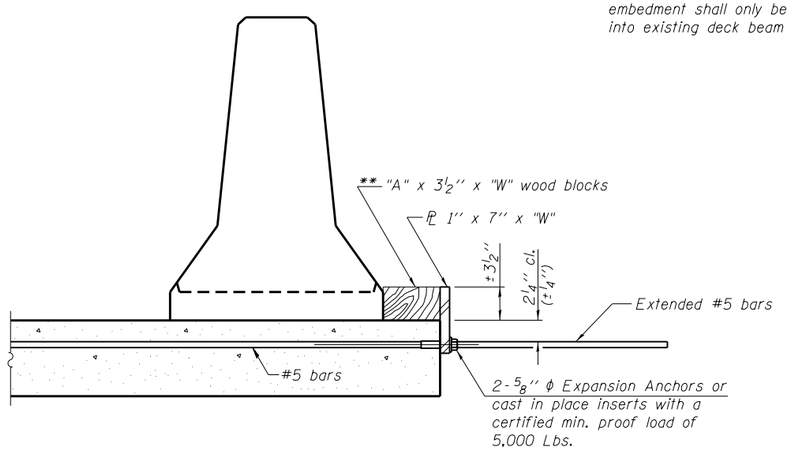
SECTIONS THRU SLAB OR DECK BEAM

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

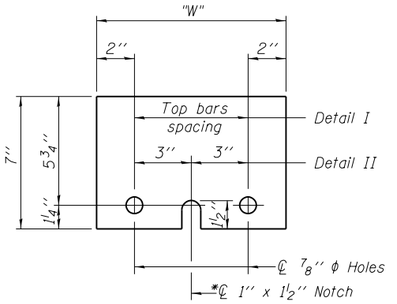
**** If existing deck beam is to remain in place after stage construction, embedment shall only be into wearing surface and not into existing deck beam concrete.



DETAIL I



DETAIL II



STEEL RETAINER PL 1'' x 7'' x ''W''

* Required only with Detail II

RETAINER ASSEMBLY

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

R-27

1-12-15

FILE NAME = H:\P\10115\WO 3 - IL 97 over Haw Creek\Structural\Final Plans\Microstation\048009B-68754-004-Temporary Concrete Barrier for Stage Construction.dgn

OATES ASSOCIATES Engineering + Architecture
ILLINOIS DESIGN FIRM LICENSE NO: 184.001115

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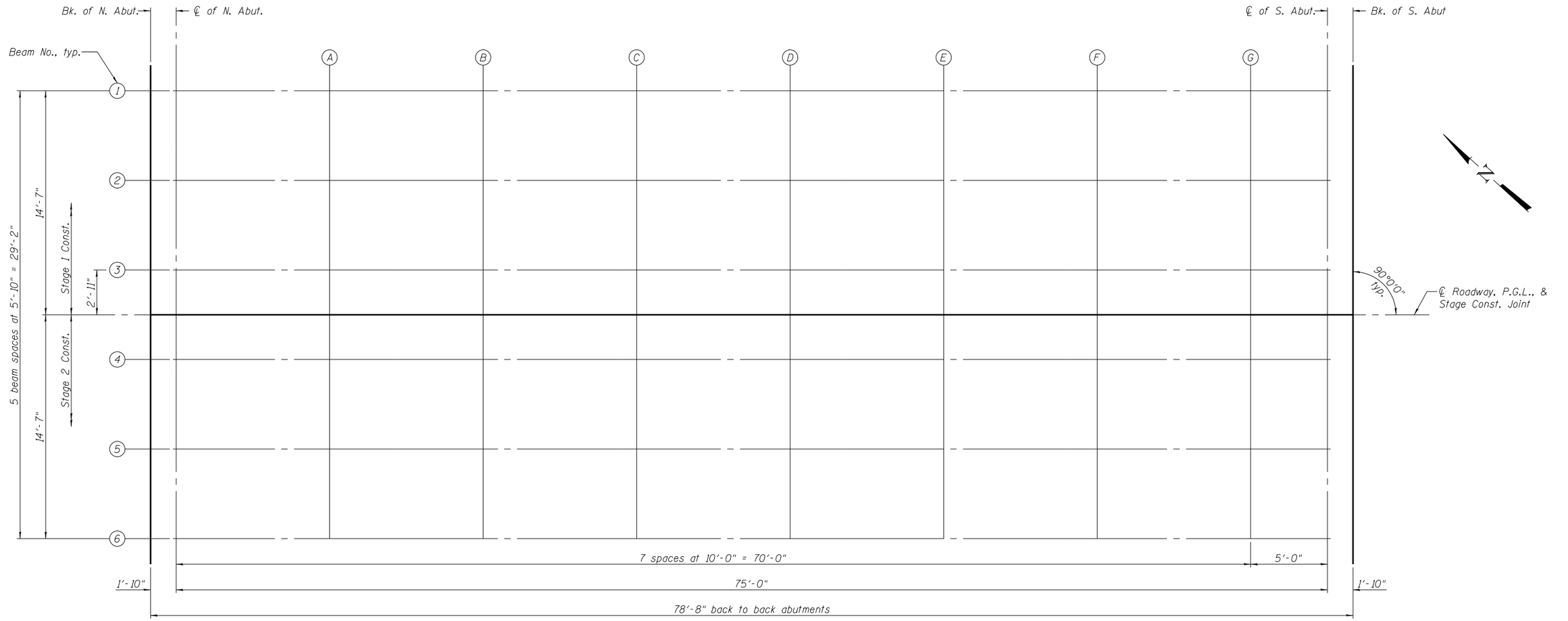
PLOT SCALE =	DRAWN -	REVISED -
PLOT DATE = 10/13/2015	CHECKED -	REVISED -

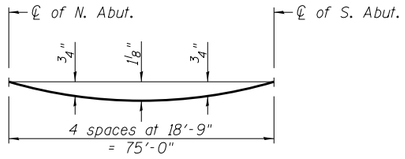
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

TEMPORARY CONCRETE BARRIER FOR STAGE CONSTRUCTION
STRUCTURE NO. 048-0098
SHEET NO. 4 OF 32 SHEETS

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
626	42-(B,B-1)BR-1	KNOX	152	29
		CONTRACT NO. 68754		
	ILLINOIS	FED. AID PROJECT		

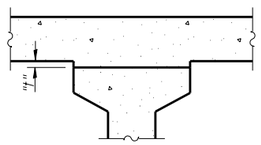


PLAN



DEAD LOAD DEFLECTION DIAGRAM ①

(Includes weight of concrete, excluding beams).



FILLET HEIGHTS ②

Notes:

① *The Dead Load Deflections are not to be used in the field if the Engineer is working from the "Theoretical Grade Elevations Adjusted for Dead Load Deflection" as shown on sheet 6 of 32.*

② *To determine "t": After all precast prestressed beams have been erected, elevations of the top flanges of the beams shall be taken at intervals shown above. These elevations subtracted from the "Theoretical Grade Elevations Adjusted for Dead Load Deflection" shown on sheet 6 of 32, minus slab thickness, equals the fillet heights "t" above top flanges of beams.*

FILE NAME = H:\P\10115\WO 3 - IL 97 over Hoe Creek\Structural\Final Plans\Microstation\048098-68754-005-Top of Slab Elevations.dgn

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STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

TOP OF SLAB ELEVATIONS
STRUCTURE NO. 048-0098
SHEET NO. 5 OF 32 SHEETS

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
626	42-(B,B-1)BR-1	KNOX	152	30
		CONTRACT NO. 68754		
	ILLINOIS FED. AID PROJECT			

BEAM 1

Location	Station	Offset	Theoretical Grade Elevations	Theoretical Grade Elevations Adjusted For Dead Load Deflection
Bk. of N. Abut.	396+64.17	-14.58	668.19	668.19
℄ of N. Abut.	396+66.00	-14.58	668.14	668.14
A	396+76.00	-14.58	667.88	667.91
B	396+86.00	-14.58	667.63	667.70
C	396+96.00	-14.58	667.41	667.49
D	397+06.00	-14.58	667.21	667.29
E	397+16.00	-14.58	667.02	667.10
F	397+26.00	-14.58	666.86	666.92
G	397+36.00	-14.58	666.73	666.74
℄ of S. Abut.	397+41.00	-14.58	666.66	666.66
Bk. of S. Abut.	397+42.83	-14.58	666.64	666.64

BEAM 2

Location	Station	Offset	Theoretical Grade Elevations	Theoretical Grade Elevations Adjusted For Dead Load Deflection
Bk. of N. Abut.	396+64.17	-8.75	668.30	668.30
℄ of N. Abut.	396+66.00	-8.75	668.25	668.25
A	396+76.00	-8.75	667.98	668.02
B	396+86.00	-8.75	667.74	667.80
C	396+96.00	-8.75	667.51	667.60
D	397+06.00	-8.75	667.31	667.40
E	397+16.00	-8.75	667.13	667.21
F	397+26.00	-8.75	666.97	667.02
G	397+36.00	-8.75	666.83	666.85
℄ of S. Abut.	397+41.00	-8.75	666.77	666.77
Bk. of S. Abut.	397+42.83	-8.75	666.75	666.75

BEAM 3

Location	Station	Offset	Theoretical Grade Elevations	Theoretical Grade Elevations Adjusted For Dead Load Deflection
Bk. of N. Abut.	396+64.17	-2.92	668.39	668.39
℄ of N. Abut.	396+66.00	-2.92	668.34	668.34
A	396+76.00	-2.92	668.07	668.11
B	396+86.00	-2.92	667.83	667.89
C	396+96.00	-2.92	667.60	667.69
D	397+06.00	-2.92	667.40	667.49
E	397+16.00	-2.92	667.22	667.30
F	397+26.00	-2.92	667.06	667.11
G	397+36.00	-2.92	666.92	666.94
℄ of S. Abut.	397+41.00	-2.92	666.86	666.86
Bk. of S. Abut.	397+42.83	-2.92	666.84	666.84

℄ ROADWAY, P.G.L., & STAGE CONST. JOINT

Location	Station	Offset	Theoretical Grade Elevations	Theoretical Grade Elevations Adjusted For Dead Load Deflection
Bk. of N. Abut.	396+64.17	0.00	668.44	668.44
℄ of N. Abut.	396+66.00	0.00	668.38	668.38
A	396+76.00	0.00	668.12	668.15
B	396+86.00	0.00	667.87	667.94
C	396+96.00	0.00	667.65	667.73
D	397+06.00	0.00	667.45	667.54
E	397+16.00	0.00	667.27	667.34
F	397+26.00	0.00	667.11	667.16
G	397+36.00	0.00	666.97	666.99
℄ of S. Abut.	397+41.00	0.00	666.91	666.91
Bk. of S. Abut.	397+42.83	0.00	666.88	666.88

BEAM 4

Location	Station	Offset	Theoretical Grade Elevations	Theoretical Grade Elevations Adjusted For Dead Load Deflection
Bk. of N. Abut.	396+64.17	2.92	668.39	668.39
℄ of N. Abut.	396+66.00	2.92	668.34	668.34
A	396+76.00	2.92	668.07	668.11
B	396+86.00	2.92	667.83	667.89
C	396+96.00	2.92	667.60	667.69
D	397+06.00	2.92	667.40	667.49
E	397+16.00	2.92	667.22	667.30
F	397+26.00	2.92	667.06	667.11
G	397+36.00	2.92	666.92	666.94
℄ of S. Abut.	397+41.00	2.92	666.86	666.86
Bk. of S. Abut.	397+42.83	2.92	666.84	666.84

BEAM 5

Location	Station	Offset	Theoretical Grade Elevations	Theoretical Grade Elevations Adjusted For Dead Load Deflection
Bk. of N. Abut.	396+64.17	8.75	668.30	668.30
℄ of N. Abut.	396+66.00	8.75	668.25	668.25
A	396+76.00	8.75	667.98	668.02
B	396+86.00	8.75	667.74	667.80
C	396+96.00	8.75	667.51	667.60
D	397+06.00	8.75	667.31	667.40
E	397+16.00	8.75	667.13	667.21
F	397+26.00	8.75	666.97	667.02
G	397+36.00	8.75	666.83	666.85
℄ of S. Abut.	397+41.00	8.75	666.77	666.77
Bk. of S. Abut.	397+42.83	8.75	666.75	666.75

BEAM 6

Location	Station	Offset	Theoretical Grade Elevations	Theoretical Grade Elevations Adjusted For Dead Load Deflection
Bk. of N. Abut.	396+64.17	14.58	668.19	668.19
℄ of N. Abut.	396+66.00	14.58	668.14	668.14
A	396+76.00	14.58	667.88	667.91
B	396+86.00	14.58	667.63	667.70
C	396+96.00	14.58	667.41	667.49
D	397+06.00	14.58	667.21	667.29
E	397+16.00	14.58	667.02	667.10
F	397+26.00	14.58	666.86	666.92
G	397+36.00	14.58	666.73	666.74
℄ of S. Abut.	397+41.00	14.58	666.66	666.66
Bk. of S. Abut.	397+42.83	14.58	666.64	666.64

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STATE OF ILLINOIS
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TOP OF SLAB ELEVATIONS
STRUCTURE NO. 048-0098
SHEET NO. 6 OF 32 SHEETS

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
626	42-(B,B-1)BR-1	KNOX	152	31
		CONTRACT NO. 68754		
	ILLINOIS FED. AID PROJECT			

EAST EDGE OF SHOULDER

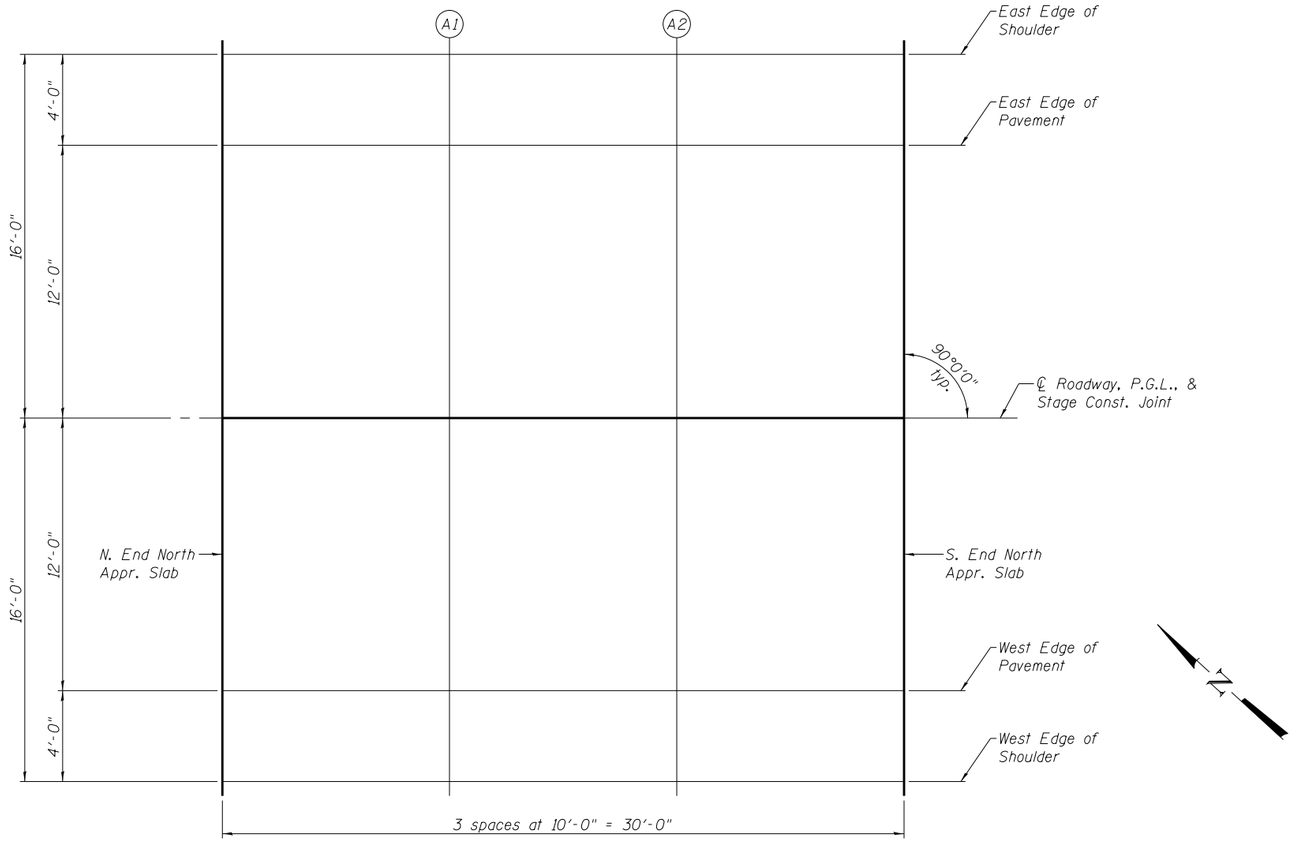
Location	Station	Offset	Theoretical Grade Elevations
N. End North Appr. Slab	396+35.17	-16.00	669.07
A1	396+45.17	-16.00	668.74
A2	396+55.17	-16.00	668.43
S. End North Appr. Slab	396+65.17	-16.00	668.14

EAST EDGE OF PAVEMENT

Location	Station	Offset	Theoretical Grade Elevations
N. End North Appr. Slab	396+35.17	-12.00	669.15
A1	396+45.17	-12.00	668.82
A2	396+55.17	-12.00	668.51
S. End North Appr. Slab	396+65.17	-12.00	668.22

℄ ROADWAY, P.G.L., & STAGE CONST. JOINT

Location	Station	Offset	Theoretical Grade Elevations
N. End North Appr. Slab	396+35.17	0.00	669.34
A1	396+45.17	0.00	669.01
A2	396+55.17	0.00	668.70
S. End North Appr. Slab	396+65.17	0.00	668.41



PLAN

WEST EDGE OF PAVEMENT

Location	Station	Offset	Theoretical Grade Elevations
N. End North Appr. Slab	396+35.17	12.00	669.15
A1	396+45.17	12.00	668.82
A2	396+55.17	12.00	668.51
S. End North Appr. Slab	396+65.17	12.00	668.22

WEST EDGE OF SHOULDER

Location	Station	Offset	Theoretical Grade Elevations
N. End North Appr. Slab	396+35.17	16.00	669.07
A1	396+45.17	16.00	668.74
A2	396+55.17	16.00	668.43
S. End North Appr. Slab	396+65.17	16.00	668.14

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STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

TOP OF NORTH APPROACH SLAB ELEVATIONS
STRUCTURE NO. 048-0098
SHEET NO. 7 OF 32 SHEETS

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
626	42-(B,B-1)BR-1	KNOX	152	32
		CONTRACT NO. 68754		
	ILLINOIS FED. AID PROJECT			

EAST EDGE OF SHOULDER

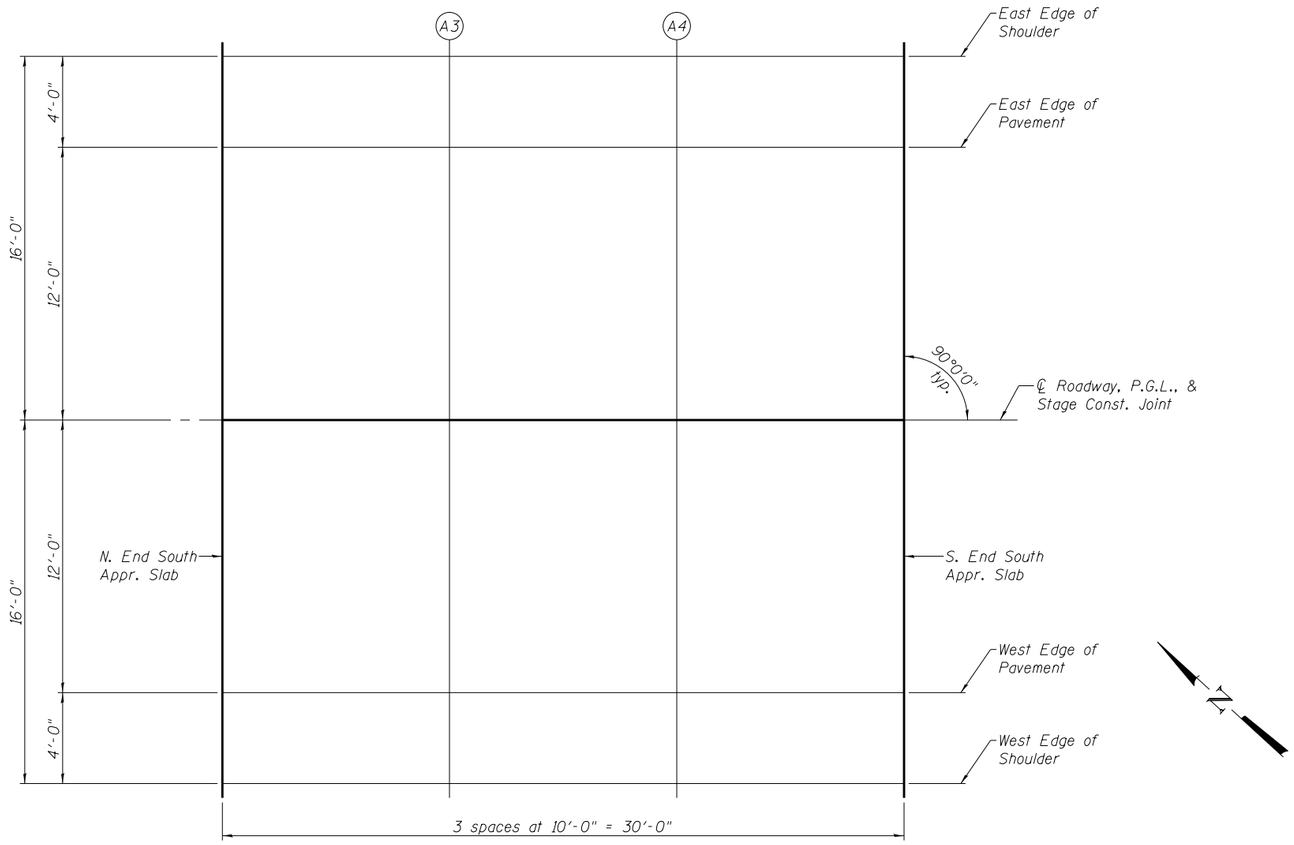
Location	Station	Offset	Theoretical Grade Elevations
N. End South Appr. Slab	397+41.83	-16.00	666.62
A3	397+51.83	-16.00	666.52
A4	397+61.83	-16.00	666.44
S. End South Appr. Slab	397+71.83	-16.00	666.37

EAST EDGE OF PAVEMENT

Location	Station	Offset	Theoretical Grade Elevations
N. End South Appr. Slab	397+41.83	-12.00	666.71
A3	397+51.83	-12.00	666.60
A4	397+61.83	-12.00	666.52
S. End South Appr. Slab	397+71.83	-12.00	666.46

℄ ROADWAY, P.G.L., & STAGE CONST. JOINT

Location	Station	Offset	Theoretical Grade Elevations
N. End South Appr. Slab	397+41.83	0.00	666.90
A3	397+51.83	0.00	666.79
A4	397+61.83	0.00	666.71
S. End South Appr. Slab	397+71.83	0.00	666.64



PLAN

WEST EDGE OF PAVEMENT

Location	Station	Offset	Theoretical Grade Elevations
N. End South Appr. Slab	397+41.83	12.00	666.71
A3	397+51.83	12.00	666.60
A4	397+61.83	12.00	666.52
S. End South Appr. Slab	397+71.83	12.00	666.46

WEST EDGE OF SHOULDER

Location	Station	Offset	Theoretical Grade Elevations
N. End South Appr. Slab	397+41.83	16.00	666.62
A3	397+51.83	16.00	666.52
A4	397+61.83	16.00	666.44
S. End South Appr. Slab	397+71.83	16.00	666.37

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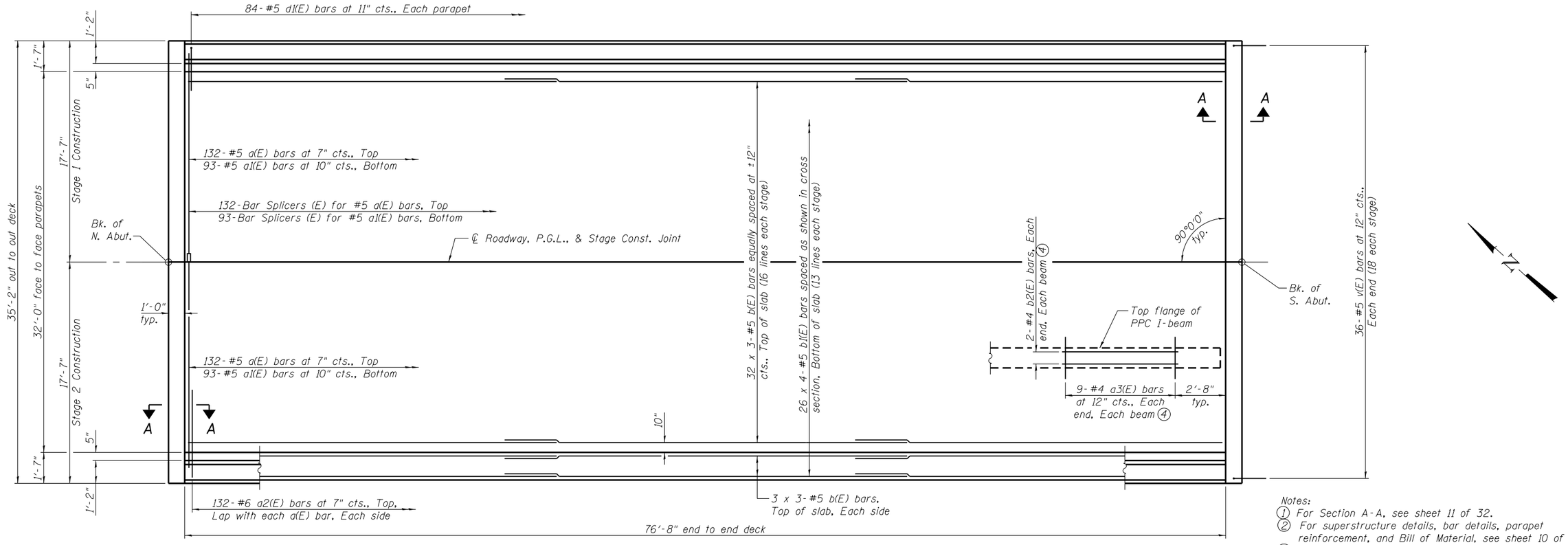
DEPARTMENT OF TRANSPORTATION

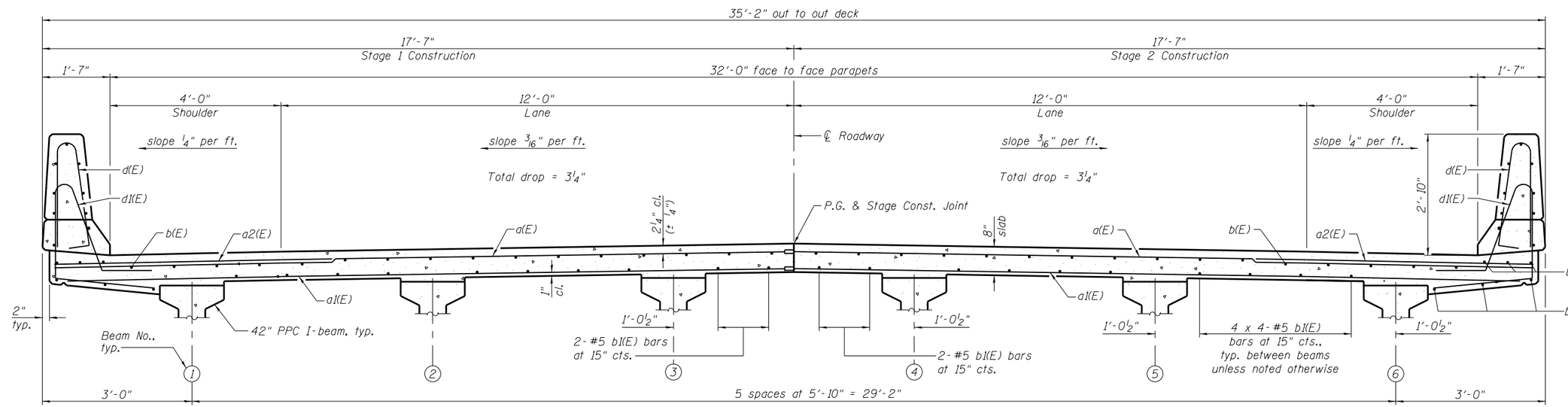
TOP OF SOUTH APPROACH SLAB ELEVATIONS
STRUCTURE NO. 048-0098
SHEET NO. 8 OF 32 SHEETS

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
626	42-(B,B-1)BR-1	KNOX	152	33
		CONTRACT NO. 68754		
	ILLINOIS FED. AID PROJECT			



PLAN

Notes:
1. For Section A-A, see sheet 11 of 32.
2. For superstructure details, bar details, parapet reinforcement, and Bill of Material, see sheet 10 of 32.
3. Bars indicated thus 32 x 3-#5 etc. indicates 32 lines of bars with 3 lengths per line.
4. See Section Thru Fillet on sheet 10 of 32.
5. For details of Bar Splicers, see sheet 20 of 32.



CROSS SECTION
(Looking South)

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

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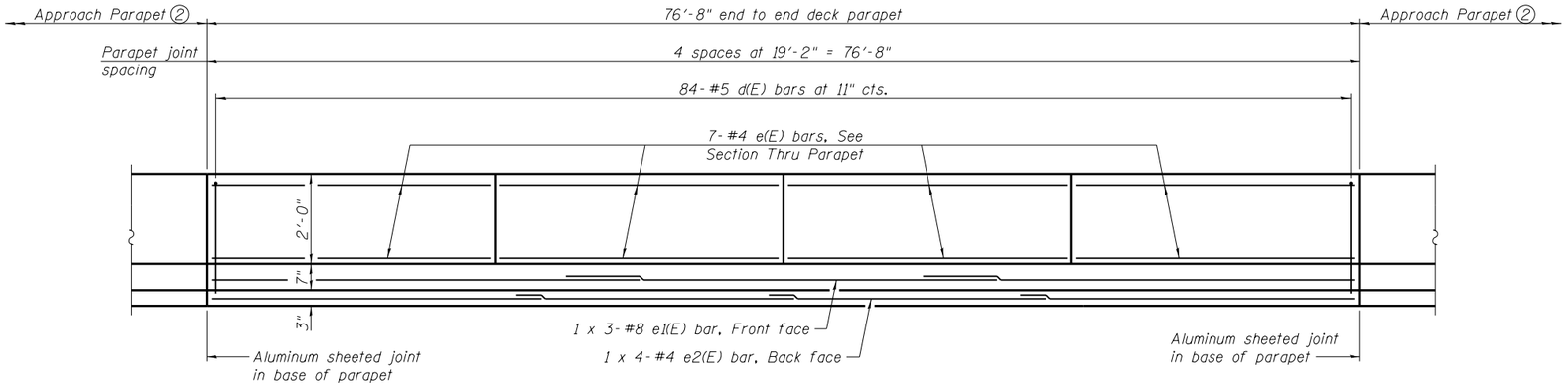
DEPARTMENT OF TRANSPORTATION

SUPERSTRUCTURE
STRUCTURE NO. 048-0098
SHEET NO. 9 OF 32 SHEETS

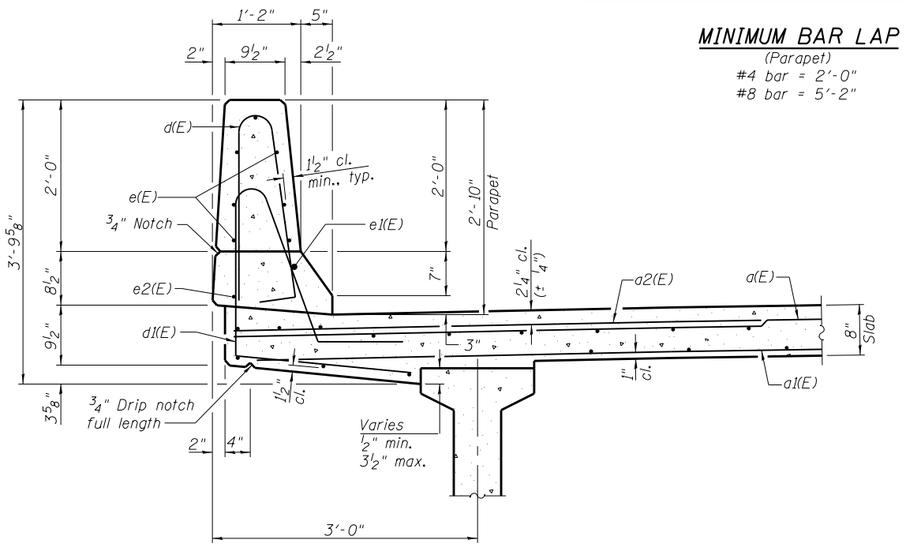
F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
626	42-(B,B-1)BR-1	KNOX	152	34
		CONTRACT NO. 68754		
	ILLINOIS FED. AID PROJECT			



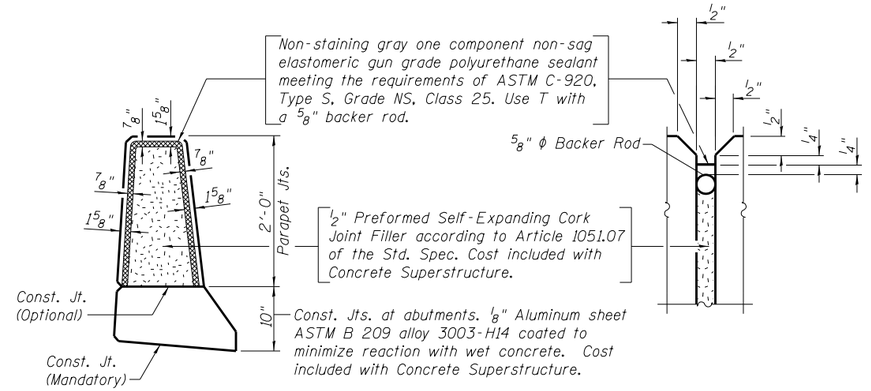
INSIDE ELEVATION OF PARAPET

MINIMUM BAR LAP

(Parapet)
#4 bar = 2'-0"
#8 bar = 5'-2"



SECTION THRU PARAPET

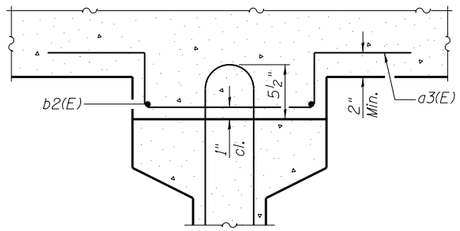


PARAPET JOINT DETAILS

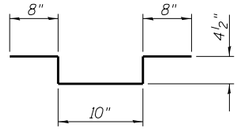
SUPERSTRUCTURE BILL OF MATERIAL

Bar	No.	Size	Length	Shape
a(E)	264	#5	17'-1"	
a1(E)	186	#5	16'-9"	
a2(E)	264	#6	6'-6"	
a3(E)	108	#4	2'-11"	
b(E)	114	#5	27'-2"	
b1(E)	104	#5	21'-0"	
b2(E)	24	#4	8'-0"	
d(E)	168	#5	5'-7"	
d1(E)	168	#5	7'-6"	
e(E)	56	#4	18'-10"	
e1(E)	6	#8	28'-11"	
e2(E)	8	#4	20'-7"	
m(E)	20	#6	17'-3"	
m1(E)	24	#6	5'-0"	
m2(E)	12	#6	2'-5"	
m3(E)	8	#6	3'-8"	
m4(E)	4	#6	1'-9"	
m5(E)	24	#5	4'-0"	
s(E)	64	#5	8'-6"	
s1(E)	64	#5	11'-8"	
v(E)	72	#5	3'-1"	
Concrete Superstructure			Cu. Yd.	121.2
Reinforcement Bars, Epoxy Coated			Pound	22,420

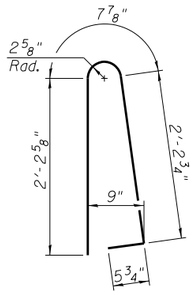
Notes:
1. Bars indicated thus 1 x 4-#4 etc. indicates 1 line of bars with 4 lengths per line.
2. For Approach Parapet details, see sheet 13 of 32.



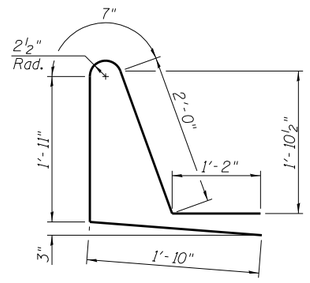
SECTION THRU FILLET



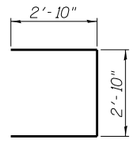
BAR a3(E)



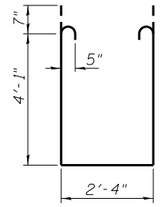
BAR d(E)



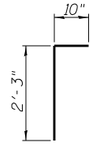
BAR d1(E)



BAR s(E)



BAR s1(E)



BAR v(E)

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SUPERSTRUCTURE DETAILS
STRUCTURE NO. 048-0098
SHEET NO. 10 OF 32 SHEETS

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
626	42-(B,B-1)BR-1	KNOX	152	35
		CONTRACT NO. 68754		
	ILLINOIS FED. AID PROJECT			

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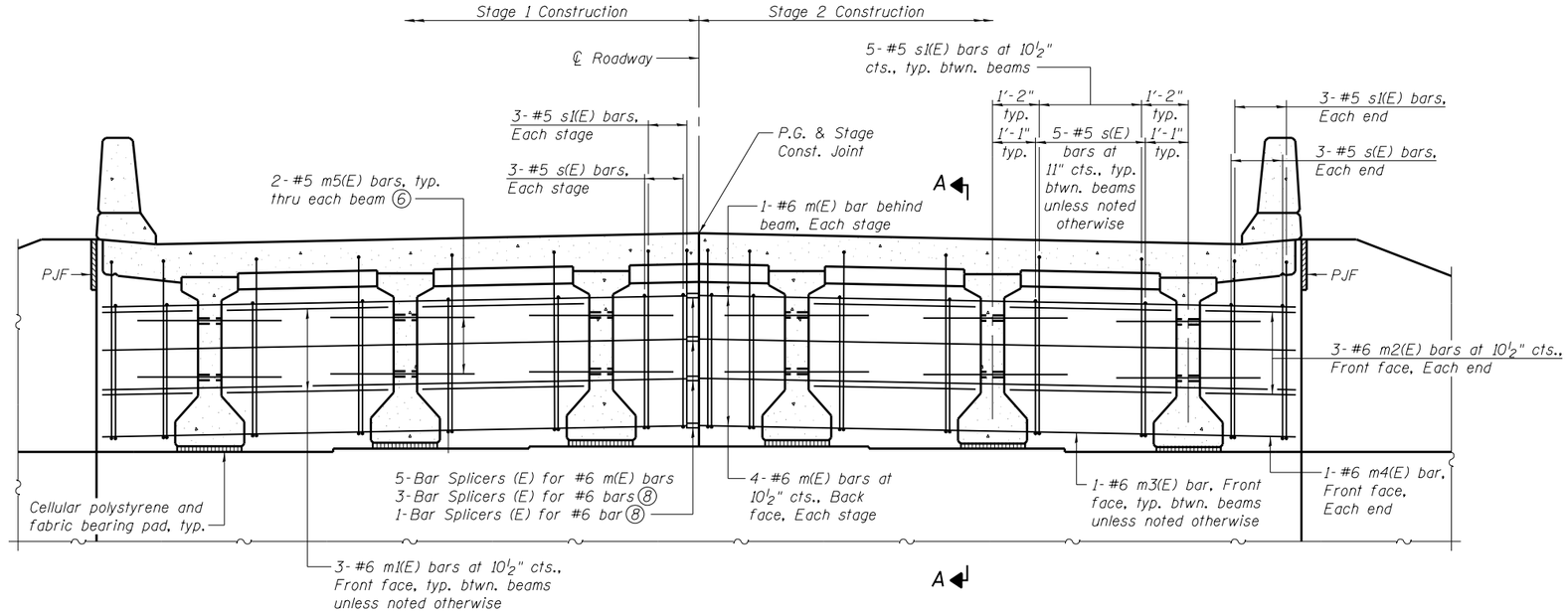
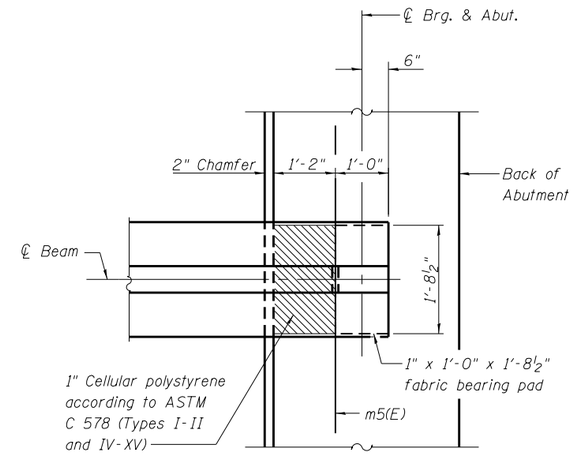


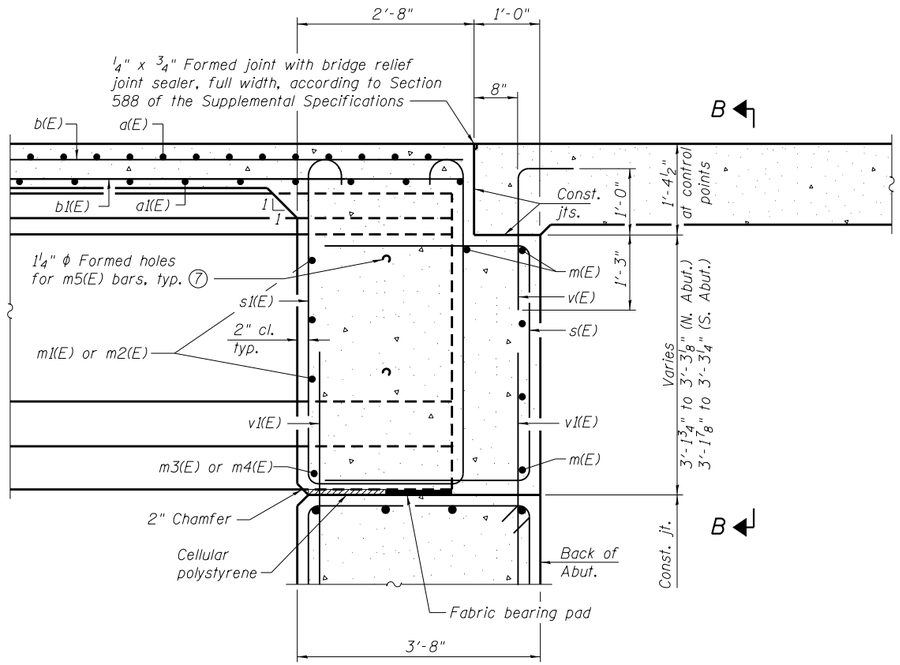
DIAPHRAGM ELEVATION AT ABUTMENT

(Looking South)

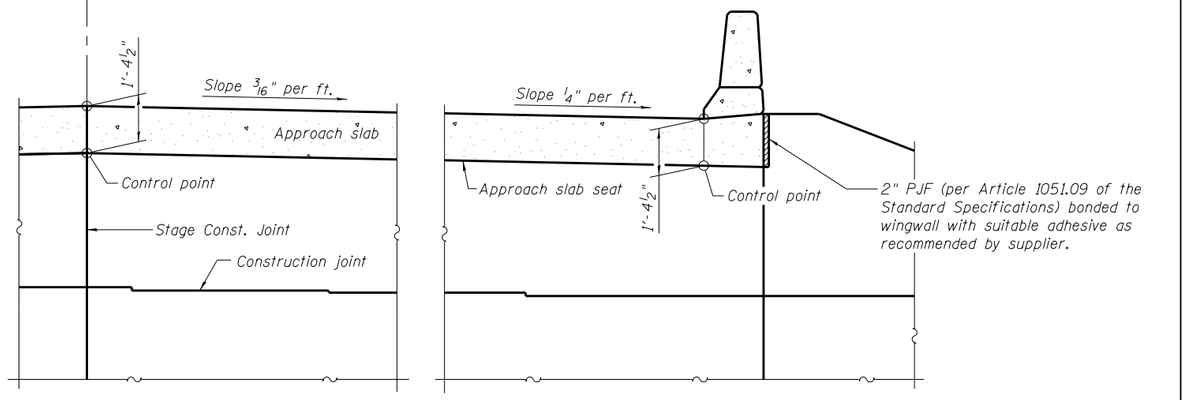


PARTIAL PLAN AT ABUTMENT

(Showing bottom flange of beam)



SECTION A-A



SECTION B-B

CONTROL POINT ELEVATIONS (10)

	East Parapet	℄ Roadway	West Parapet
N. Abut.	666.79	667.06	666.79
S. Abut.	665.24	665.51	665.24

Notes:
1. Reinforcement bars in diaphragm are billed with superstructure on sheet 10 of 32.
2. Concrete in diaphragm is included with Concrete Superstructure on sheet 10 of 32.
3. For details of bars s(E), s1(E) and v(E), see sheet 10 of 32.
4. The approach slab seat shall have a constant slope determined from the control points shown.
5. Cost of cellular polystyrene is included with Concrete Superstructure.
6. Secure bars such that they remain centered and level during pouring of the concrete.
7. For hole locations, see sheet 15 of 32.
8. Use Bar Splicers in place of m1(E) and m3(E) bars between beam and stage construction joint. Cut Bar Splicers as required to provide adequate clearance to beam.
9. For details of Bar Splicers, see sheet 20 of 32.
10. Control point elevations are taken at top of approach slab seat as shown in Section B-B.

FILE NAME = H:\P\10115\WO 3 - IL 97 over Haw Creek\Structural\Final Plans\Microstation\0480098-68754-011-Diaphragm Details.dgn

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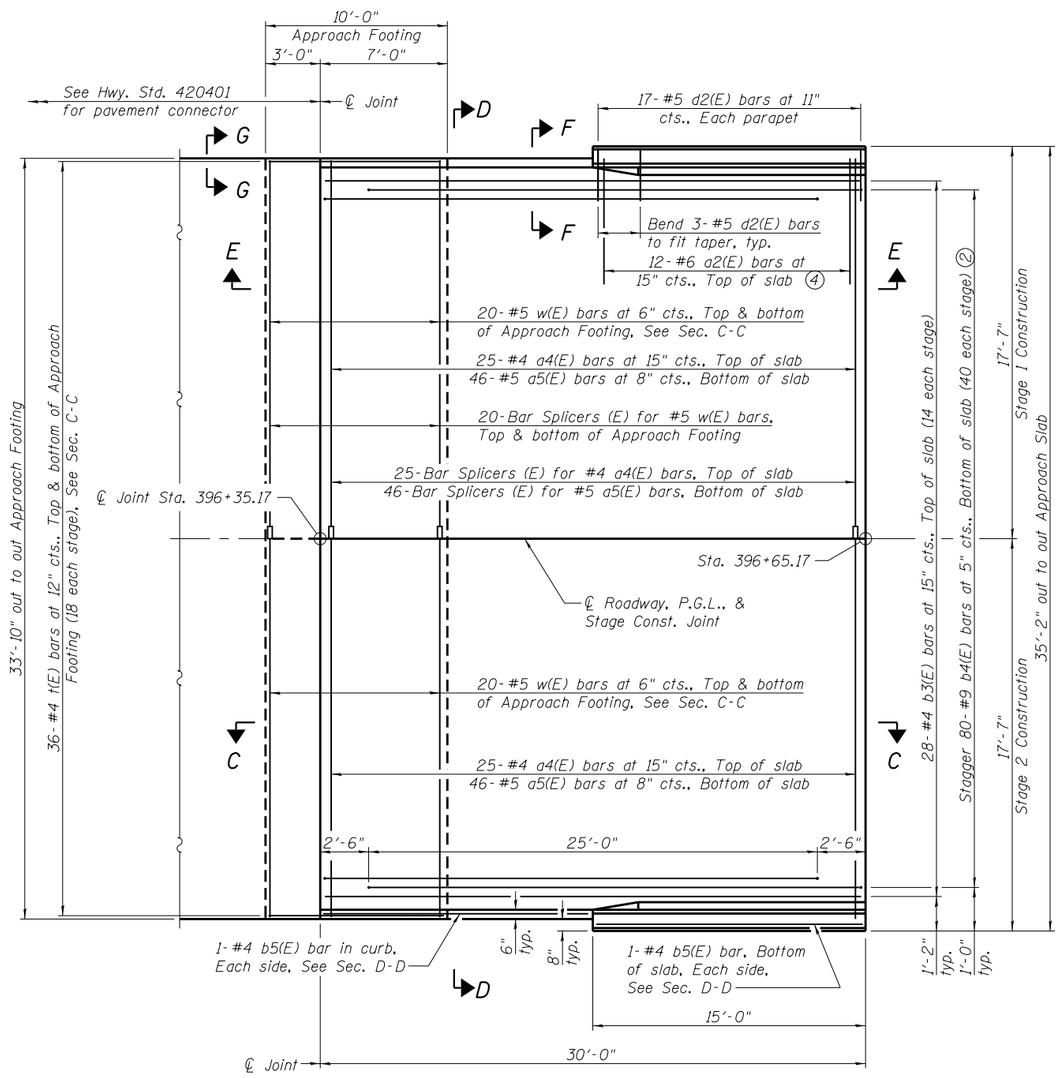
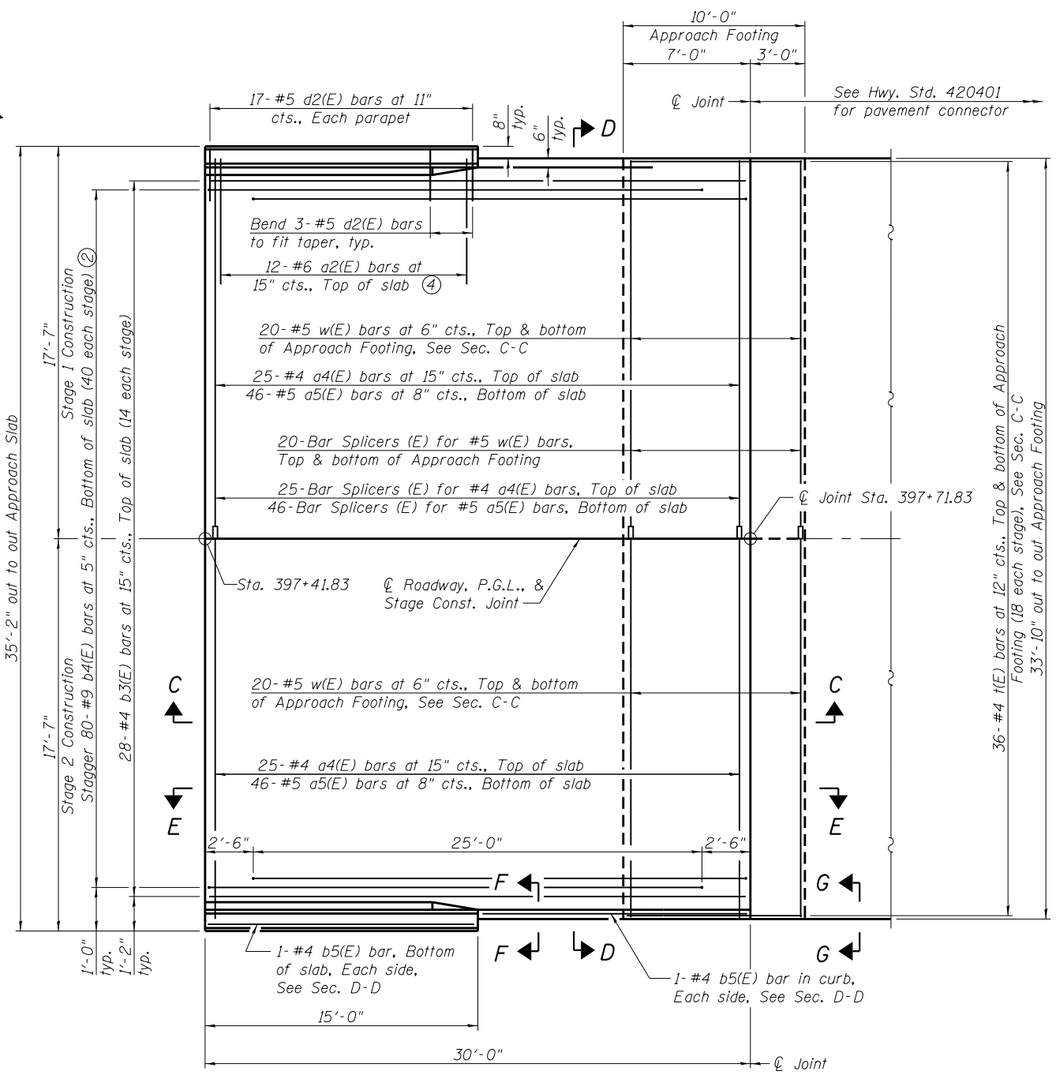
DIAPHRAGM DETAILS
STRUCTURE NO. 048-0098
SHEET NO. 11 OF 32 SHEETS

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
626	42-(B,B-1)BR-1	KNOX	152	36
		CONTRACT NO. 68754		
	ILLINOIS FED. AID PROJECT			



NORTH APPROACH PLAN



SOUTH APPROACH PLAN

Notes:
1. For Sections C-C & D-D and Views E-E, F-F, & G-G, see sheet 13 of 32.
2. Tilt #9 b4(E) bars as required to maintain clearance.
3. For details of Bar Splicers, see sheet 20 of 32.
4. Space between a4(E) bars, each parapet.

FILE NAME = H:\P\10115\WO 3 - IL 97 over Hoe Creek\Structural\Final Plans\Microstation\048098-68754-012-Bridge Approach Slab Details.dgn

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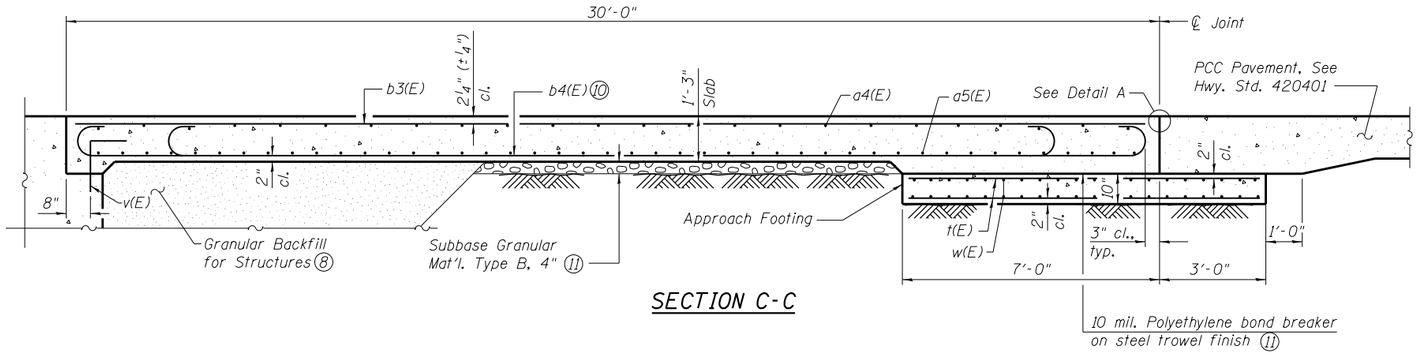
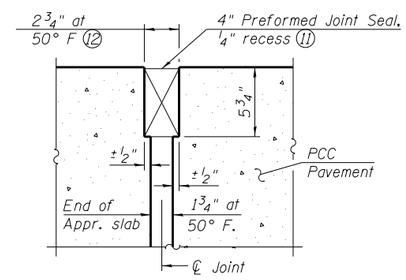
BRIDGE APPROACH SLAB DETAILS
STRUCTURE NO. 048-0098
SHEET NO. 12 OF 32 SHEETS

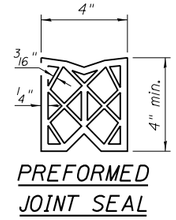
F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
626	42-(B,B-1)BR-1	KNOX	152	37
		CONTRACT NO. 68754		
	ILLINOIS FED. AID PROJECT			



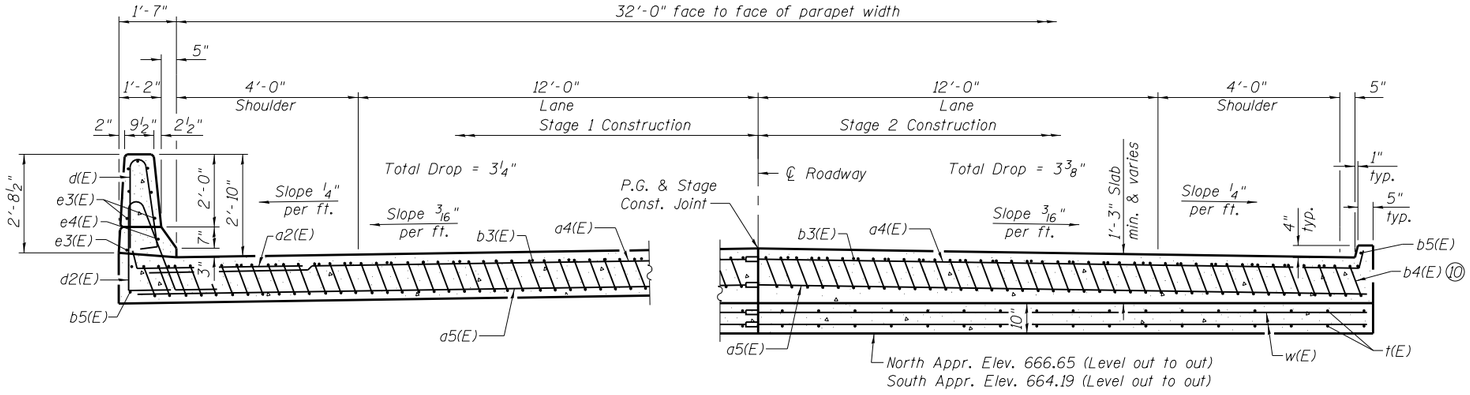
SECTION C-C



DETAIL A

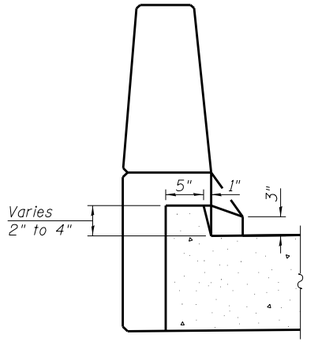


PREFORMED JOINT SEAL



NEAR ABUTMENT

AT APPROACH FOOTING



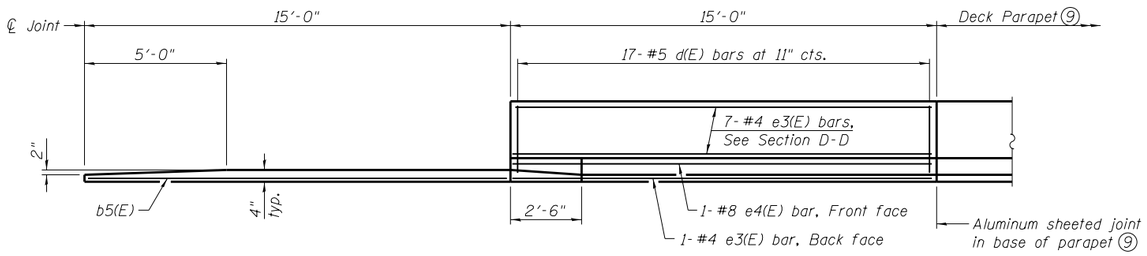
VIEW F-F

TWO APPROACHES BILL OF MATERIAL

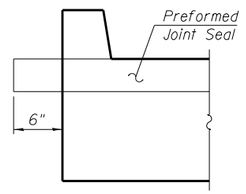
Bar	No.	Size	Length	Shape
a2(E)	48	#6	6'-6"	
a4(E)	100	#4	16'-9"	
a5(E)	184	#5	16'-7"	
b3(E)	56	#4	29'-8"	
b4(E)	160	#9	29'-9"	
b5(E)	8	#4	14'-8"	
d(E)	68	#5	5'-7"	
d2(E)	68	#5	7'-11"	
e3(E)	32	#4	14'-8"	
e4(E)	4	#8	14'-8"	
t(E)	144	#4	9'-8"	
w(E)	160	#5	16'-7"	
Concrete Structures			Cu. Yd.	20.9
Concrete Superstructure			Cu. Yd.	108.7
(13) Reinforcement Bars, Epoxy Coated			Pound	27,270

SECTION D-D

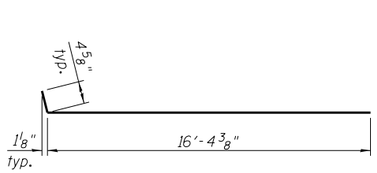
(See Plan for dimensions not shown)



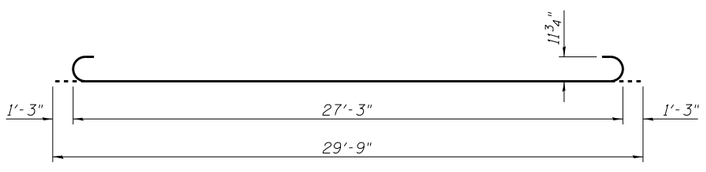
VIEW E-E



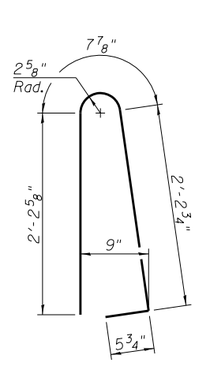
VIEW G-G



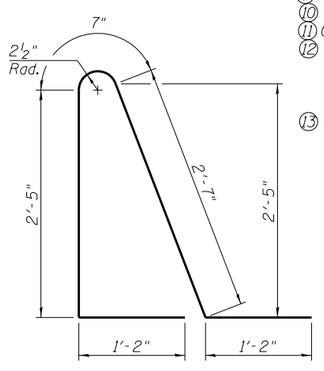
BAR a4(E)



BAR b4(E)



BAR d(E)



BAR d2(E)

Notes:
1. Approach slab and parapet concrete shall be paid for as Concrete Superstructure.
2. Approach footing concrete shall be paid for as Concrete Structures.
3. Reinforcement shall be paid for as Reinforcement Bars, Epoxy Coated.
4. For v(E) bar details, see sheet 10 of 32.
5. The approach footing maximum applied service bearing pressure (Qmax) = 2.0 ksf.
6. For details of Bar Splicers, see sheet 20 of 32.
7. Cost of excavation for approach footing included with Concrete Structures.
8. For Granular Backfill for Structures and drainage treatment details, see sheet 2 of 32.
9. For additional parapet details and parapet joint details, see sheet 10 of 32.
10. Tilt #9 b4(E) bars as required to maintain clearance.
11. Cost included with Concrete Superstructure.
12. The joint opening shall be determined per Article 520.04 except that on jointless structures, the distance described as the bridge length between the nearest fixed bearings each way from the joint shall be taken as half the bridge length plus the approach slab length. The minimum dimension shall be 1½" for installation purposes.
13. Calculated weight of Reinforcement Bars, Epoxy Coated = 23,570 (Superstructure) 3,700 (Substructure)

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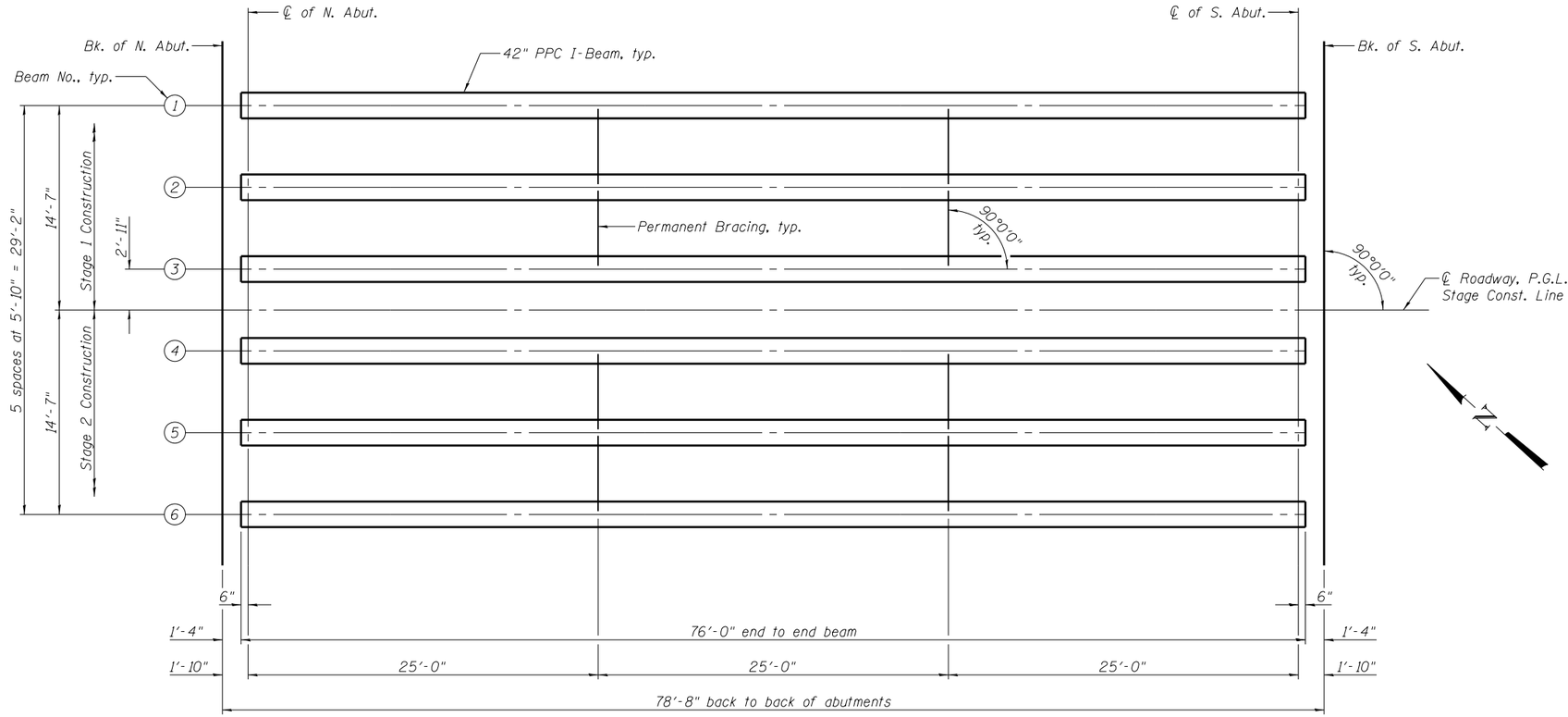
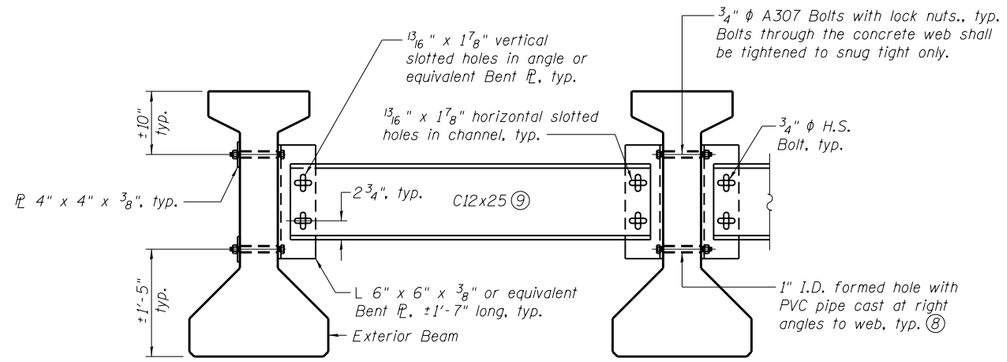
BRIDGE APPROACH SLAB DETAILS
STRUCTURE NO. 048-0098
SHEET NO. 13 OF 32 SHEETS

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
626	42-(B,B-1)BR-1	KNOX	152	38
		CONTRACT NO. 68754		
	ILLINOIS FED. AID PROJECT			



PLAN



PERMANENT BRACING DETAILS

INTERIOR BEAM MOMENT TABLE

		0.5 Span
I	(in^4)	90,956
I'	(in^4)	264,883
S_b	(in^3)	5,153
S_b'	(in^3)	8,628
S_t	(in^3)	3,736
S_t'	(in^3)	23,441
DC1	(k/')	1.091
M_{DC1}	('k)	768.0
DC2	(k/')	0.150
M_{DC2}	('k)	105.6
DW	(k/')	0.267
M_{DW}	('k)	187.8
M_{L+IM}	('k)	1,066.9

INTERIOR BEAM REACTION TABLE

		Abut.
R_{DC1}	(k)	40.9
R_{DC2}	(k)	5.6
R_{DW}	(k)	10.0
R_{L+IM}	(k)	71.0
R_{Total}	(k)	127.5

I: Non-composite moment of inertia of beam section ($in.^4$).
I': Composite moment of inertia of beam section ($in.^4$).
S_b: Non-composite section modulus for the bottom fiber of the prestressed beam ($in.^3$).
S_b': Composite section modulus for the bottom fiber of the prestressed beam ($in.^3$).
S_t: Non-composite section modulus for the top fiber of the prestressed beam ($in.^3$).
S_t': Composite section modulus for the top fiber of the prestressed beam ($in.^3$).
DC1: Un-factored non-composite dead load (kips/ft.).
M_{DC1}: Un-factored moment due to non-composite dead load (kip-ft.).
DC2: Un-factored long-term composite (superimposed excluding future wearing surface) dead load (kips/ft.).
M_{DC2}: Un-factored moment due to long-term composite (superimposed excluding future wearing surface) dead load (kip-ft.).
DW: Un-factored long-term composite (superimposed future wearing surface only) dead load (kips/ft.).
M_{DW}: Un-factored moment due to long-term composite (superimposed future wearing surface only) dead load (kip-ft).
M_{L+IM}: Un-factored live load moment plus dynamic load allowance (impact) (kip-ft.).

Notes:
1. All material for bracing shall be hot dipped galvanized according to AASHTO M111 unless otherwise noted.
2. Two hardened washers are required for each set of oversized holes.
3. All holes shall be 15/16"ϕ unless otherwise noted.
4. 5/16" x 3" x 3" plate washers are required over all slotted holes.
5. All bolts shall be galvanized according to AASHTO M232.
6. Bracing shall be installed as soon as beams are erected and tightened as soon as possible during erection.
7. Permanent bracing shall not be paid for separately, but shall be included in the cost of Furnishing and Erecting Precast Prestressed Concrete I-Beams, 42 in.
8. Fabricator shall locate to miss strands within permissible tolerances.
9. Alternate C12x30 channels are permitted to facilitate material acquisition.

FILE NAME = H:\P\10115\WO 3 - IL 97 over Haw Creek\Structural\Final Plans\Microstation\0480098-68754-014-Framing Plan.dgn

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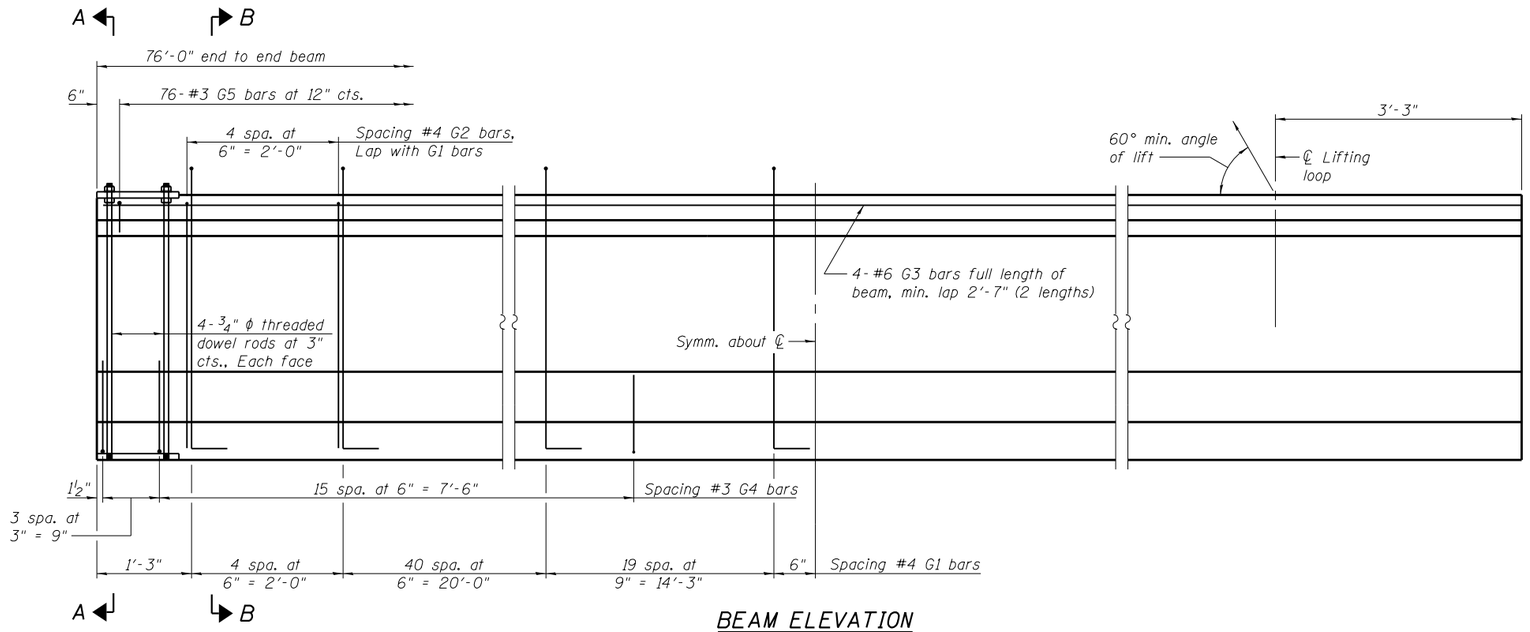
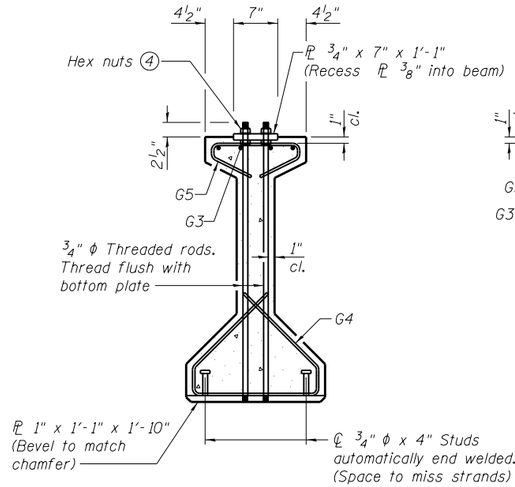
FRAMING PLAN
STRUCTURE NO. 048-0098
SHEET NO. 14 OF 32 SHEETS

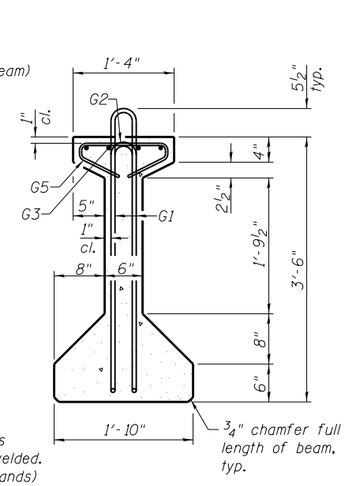
F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
626	42-(B,B-1)BR-1	KNOX	152	39
		CONTRACT NO. 68754		
	ILLINOIS FED. AID PROJECT			



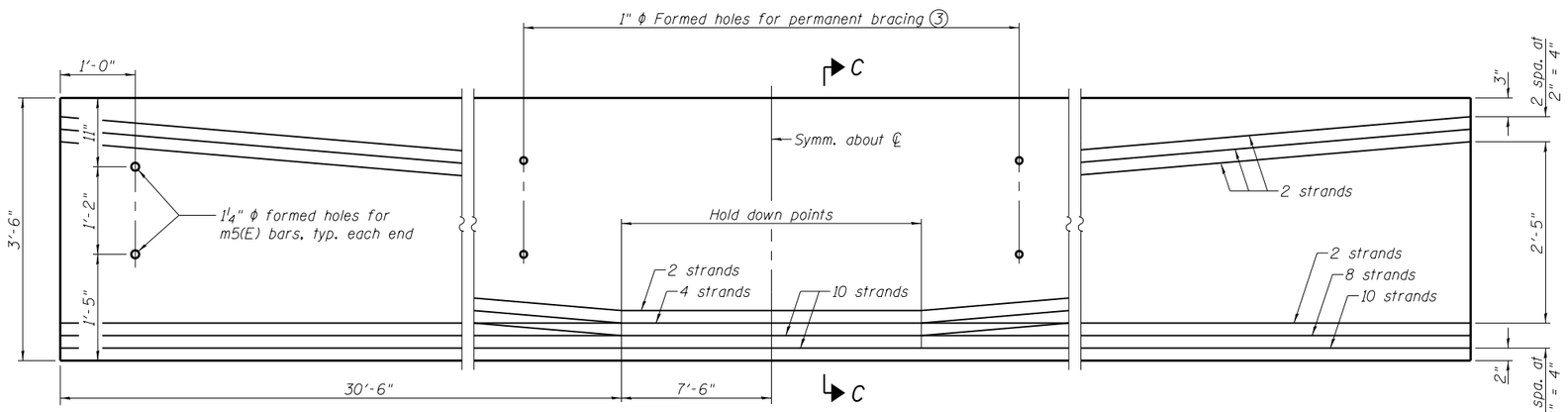
BEAM ELEVATION
(Showing reinforcement & dimensions)



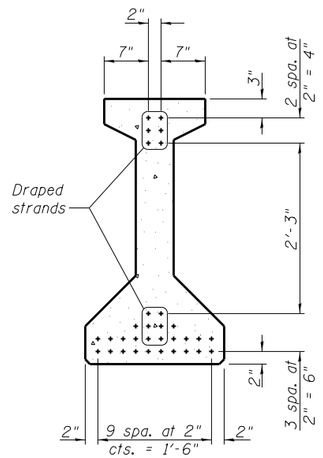
SECTION A-A



SECTION B-B



BEAM ELEVATION
(Showing prestressing steel)



SECTION C-C

BAR LIST
ONE BEAM ONLY
(For information only)

Bar	No.	Size	Length	Shape
G1	128	#4	8'-7"	
G2	10	#4	6'-8"	
G3	8	#6	39'-2"	
G4	38	#3	4'-11"	
G5	76	#3	2'-6"	

Notes:
1. For additional details and Bill of Material, see sheet 16 of 32.
2. Required release strength, f'ci, shall be 6,000 psi.
3. For number and location of holes, see sheet 14 of 32.
4. Hex nuts, top and bottom, with lock washers, top. Only tighten sufficiently to compress lock washers.

FILE NAME = H:\P\10115\WO 3 - IL 97 over Haw Creek\Structural\Final Plans\Microstation\0480098-68754-015-42" PPC I-Beam.dgn

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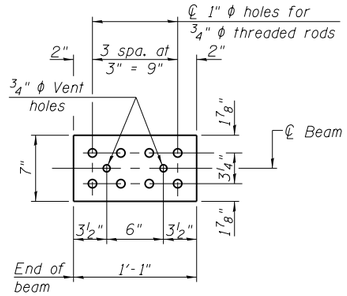
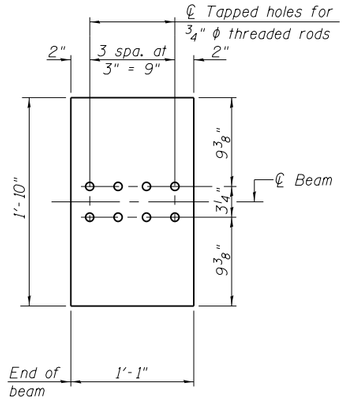
42" PPC I-BEAM
STRUCTURE NO. 048-0098
SHEET NO. 15 OF 32 SHEETS

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
626	42-(B,B-1)BR-1	KNOX	152	40
		CONTRACT NO. 68754		
	ILLINOIS FED. AID PROJECT			

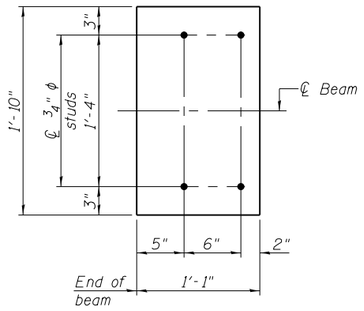


TOP PLATE



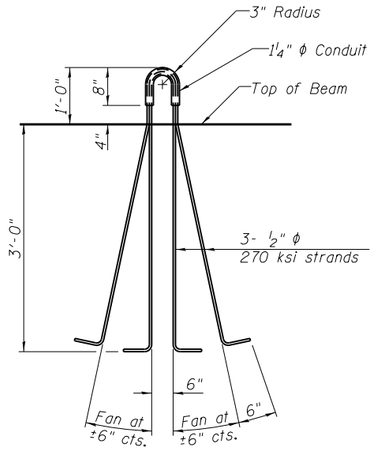
BOTTOM PLATE

(Showing threaded rods)

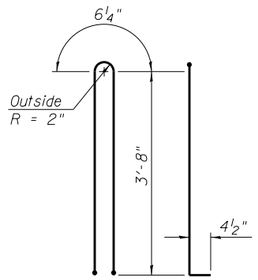


BOTTOM PLATE

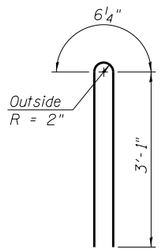
(Showing studs)



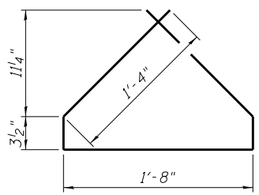
LIFTING LOOP DETAIL



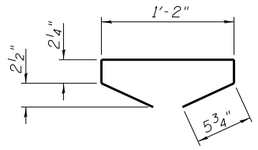
BAR G1



BAR G2



BAR G4



BAR G5

BILL OF MATERIAL

Item	Unit	Total
Furnishing and Erecting Precast Prestressed Concrete I-Beams, 42 in.	Foot	456

Notes:

1. 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.
2. A minimum 2 1/2" ϕ lifting pin shall be used to engage the lifting loops during handling.
3. The top and bottom plates shall be AASHTO M270 Grade 50.
4. The bottom plates and studs shall be galvanized according to AASHTO M111. Top plates and threaded rods need not be galvanized.
5. Threaded rods shall be ASTM F 1554 Grade 55.

FILE NAME = H:\P\10115\WO 3 - IL 97 over Haw Creek\Structural\Final Plans\Microstation\048098-68754-016-42" PPC I-Beam Details.dgn

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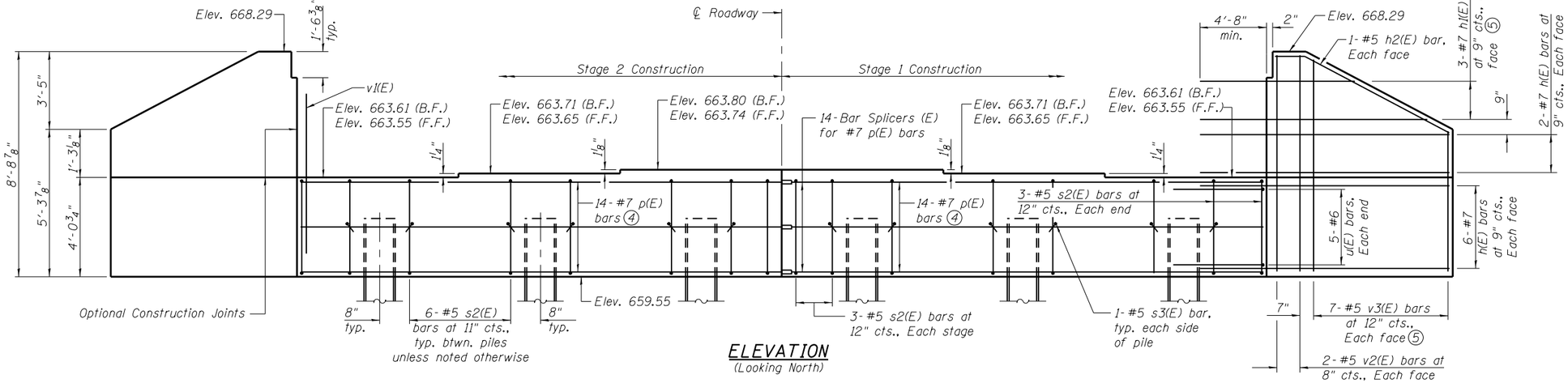
PLOT DATE = 10/13/2015	CHECKED - SJN	REVISED -	

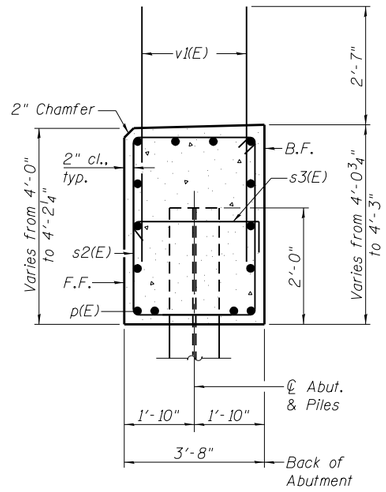
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

42" PPC I-BEAM DETAILS
STRUCTURE NO. 048-0098
SHEET NO. 16 OF 32 SHEETS

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
626	42-(B,B-1)BR-1	KNOX	152	41
		CONTRACT NO. 68754		
	ILLINOIS FED. AID PROJECT			



ELEVATION
(Looking North)



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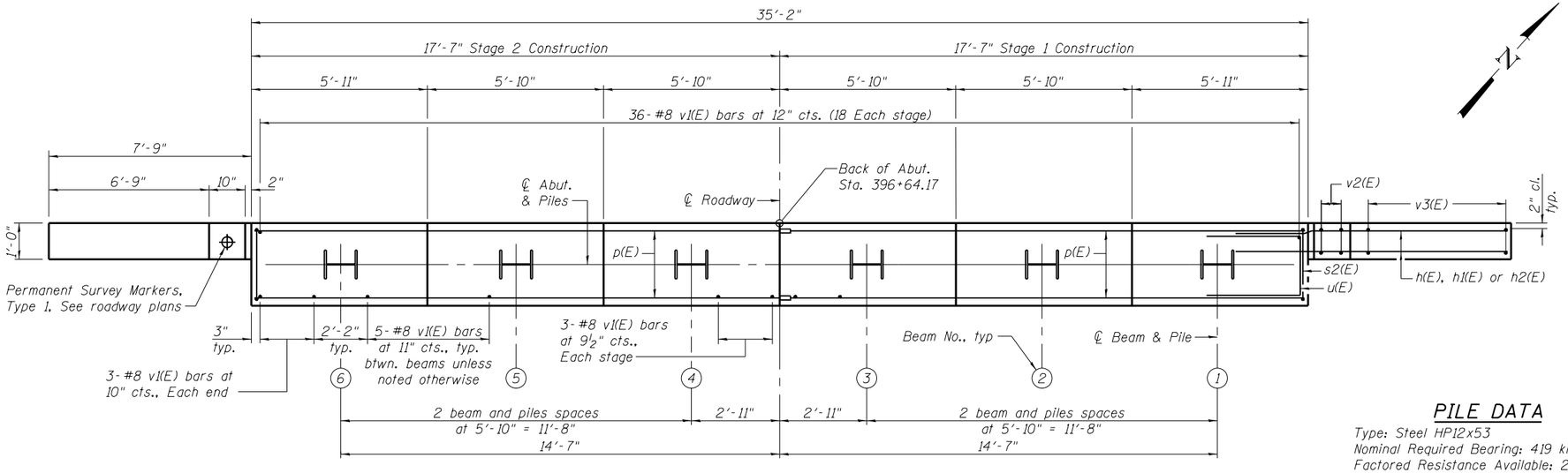
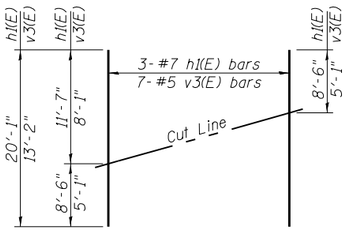
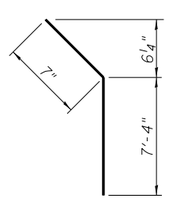


PLAN

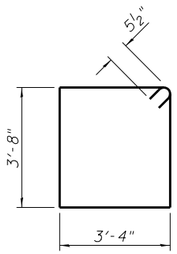


FIELD CUTTING DIAGRAM

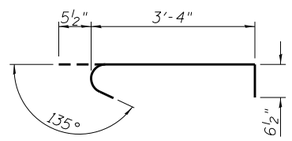
Order h1(E) and v3(E) full length. Cut as shown and use remainder of bars in opposite face.



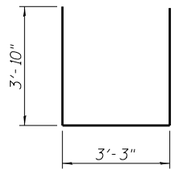
BAR h2(E)



BAR s2(E)



BAR s3(E)



BAR u(E)

BILL OF MATERIAL

Bar	No.	Size	Length	Shape
h(E)	32	#7	12'-3"	
h1(E)	6	#7	20'-1"	
h2(E)	4	#5	7'-11"	
p(E)	28	#7	17'-3"	
s2(E)	36	#5	14'-11"	
s3(E)	12	#5	4'-4"	
u(E)	10	#6	10'-11"	
v1(E)	68	#8	5'-11"	
v2(E)	8	#5	8'-4"	
v3(E)	14	#5	13'-2"	
Structure Excavation		Cu. Yd.	151	
Concrete Structures		Cu. Yd.	23.9	
Reinforcement Bars, Epoxy Coated		Pound	4,180	
Furnishing Steel Piles HP12x53		Foot	100	
Driving Piles		Foot	100	
Test Pile Steel HP12x53		Each	1	

PILE DATA

Type: Steel HP12x53
Nominal Required Bearing: 419 kips
Factored Resistance Available: 230 kips
Est. Length: 20'
No. Production Piles: 5
No. Test Piles: 1

Notes:
1. Pour steps monolithically with cap.
2. For details of piles, see sheet 19 of 32.
3. B.F. denotes back face. F.F. denotes front face.
4. See Sec. Thru Abut.
5. See Field Cutting Diagram.
6. For details of Bar Splicers, see sheet 20 of 32.

FILE NAME = H:\P\10115\K0 3 - IL 97 over Haw Creek\Structural\Final Plans\Microstation\048008B-68754-017-North Abutment Details.dgn

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ILLINOIS DESIGN FIRM LICENSE NO: 184.001115

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	CHECKED - KBC	REVISED -
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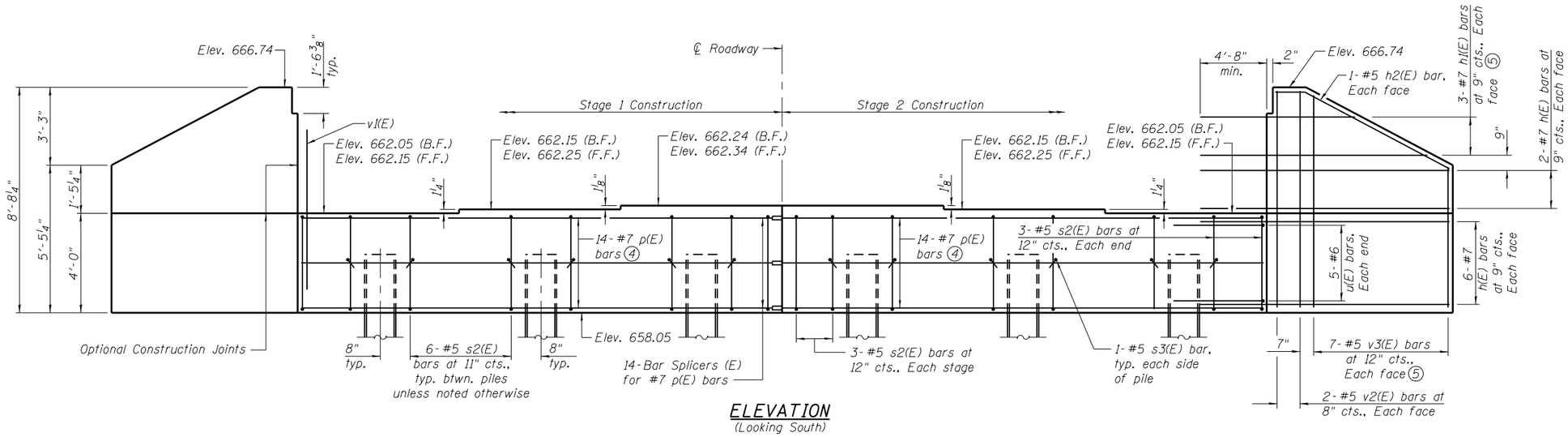
PLOT DATE = 10/13/2015	CHECKED - SJN	REVISED -

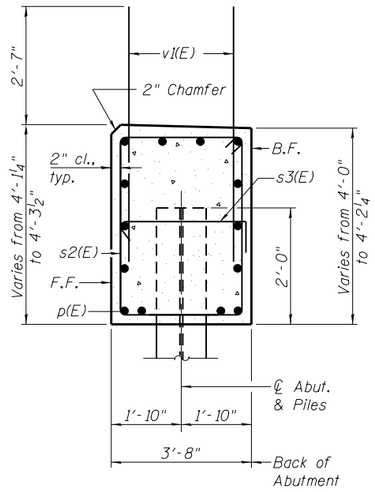
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

NORTH ABUTMENT DETAILS
STRUCTURE NO. 048-0098
SHEET NO. 17 OF 32 SHEETS

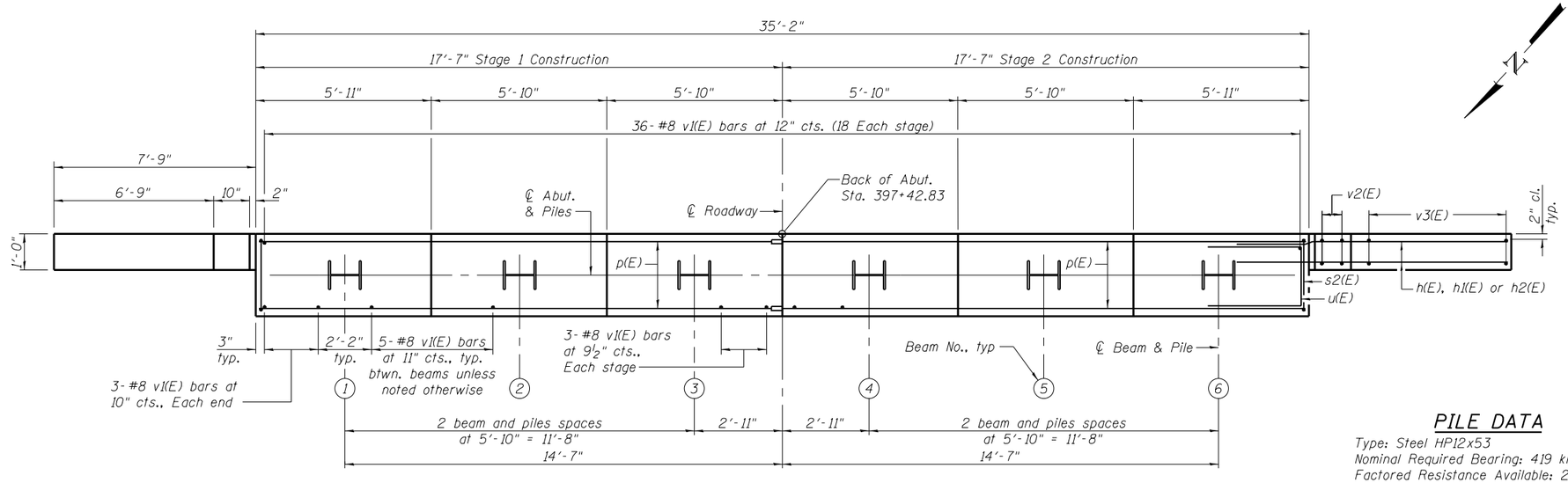
F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
626	42-(B,B-1)BR-1	KNOX	152	42
		CONTRACT NO. 68754		
	ILLINOIS FED. AID PROJECT			



ELEVATION
(Looking South)



SEC. THRU ABUT.



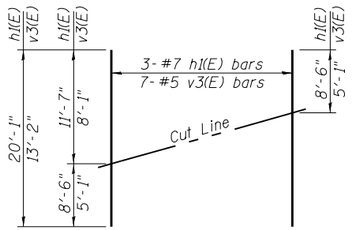
PLAN

BILL OF MATERIAL

Bar	No.	Size	Length	Shape
h(E)	32	#7	12'-3"	
h1(E)	6	#7	20'-1"	
h2(E)	4	#5	7'-11"	
p(E)	28	#7	17'-3"	
s2(E)	36	#5	14'-11"	
s3(E)	12	#5	4'-4"	
u(E)	10	#6	10'-11"	
v1(E)	68	#8	5'-11"	
v2(E)	8	#5	8'-4"	
v3(E)	14	#5	13'-2"	
Structure Excavation		Cu. Yd.		131
Concrete Structures		Cu. Yd.		24.0
Reinforcement Bars, Epoxy Coated		Pound		4,180
Furnishing Steel Piles HP12x53		Foot		105
Driving Piles		Foot		105
Test Pile Steel HP12x53		Each		1

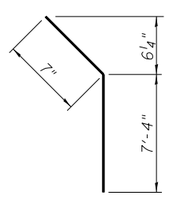
PILE DATA

Type: Steel HP12x53
Nominal Required Bearing: 419 kips
Factored Resistance Available: 230 kips
Est. Length: 21'
No. Production Piles: 5
No. Test Piles: 1

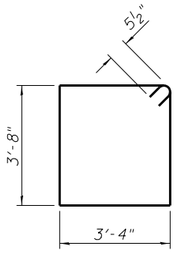


FIELD CUTTING DIAGRAM

Order h1(E) and v3(E) full length. Cut as shown and use remainder of bars in opposite face.



BAR h2(E)



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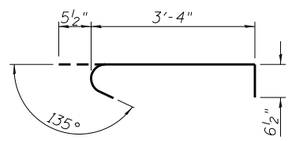
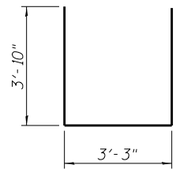


BAR s3(E)



BAR u(E)

Notes:
1. Pour steps monolithically with cap.
2. For details of piles, see sheet 19 of 32.
3. B.F. denotes back face. F.F. denotes front face.
4. See Sec. Thru Abut.
5. See Field Cutting Diagram.
6. For details of Bar Splicers, see sheet 20 of 32.

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	CHECKED - KBC	REVISED -
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PLOT DATE = 10/13/2015	CHECKED - SJN	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

SOUTH ABUTMENT DETAILS
STRUCTURE NO. 048-0098
SHEET NO. 18 OF 32 SHEETS

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
626	42-(B,B-1)BR-1	KNOX	152	43
		CONTRACT NO. 68754		
	ILLINOIS FED. AID PROJECT			

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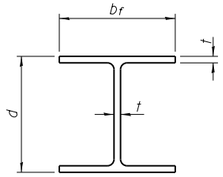
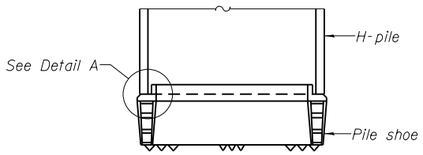
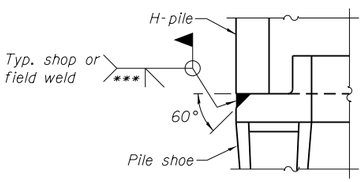


STEEL PILE TABLE

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''	11/16''	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''	11/16''	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''

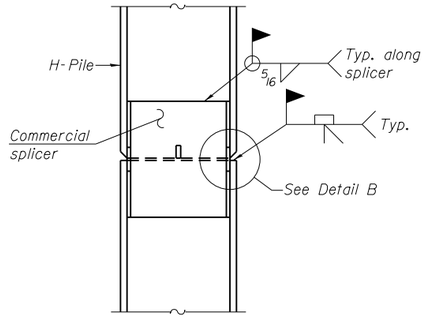


ELEVATION

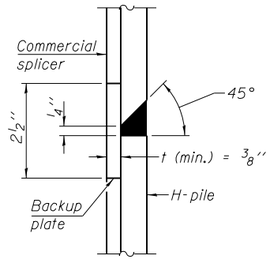


DETAIL A

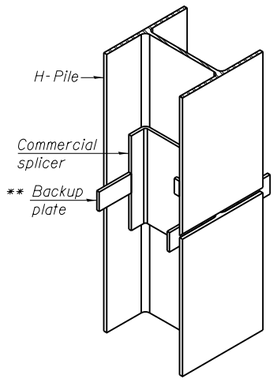
H-PILE SHOE ATTACHMENT



ELEVATION

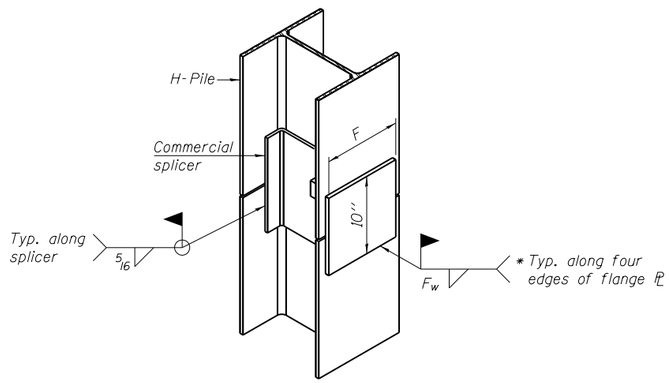


DETAIL "B"



ISOMETRIC VIEW

WELDED COMMERCIAL SPLICE



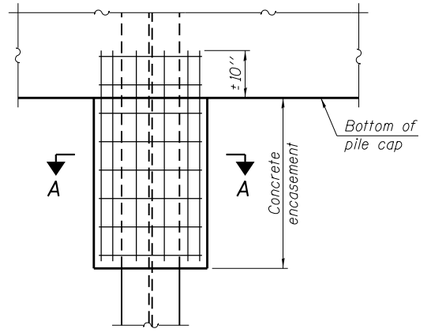
ISOMETRIC VIEW

WELDED COMMERCIAL SPLICE ALTERNATE

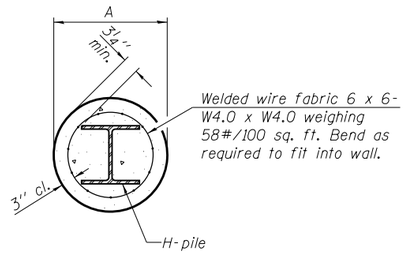
* Interrupt welds 1/4'' from end of web and/or each flange.

** Remove portions of backup plates that extend outside the flanges.

*** Weld size per pile shoe manufacturer (5/16'' min.).



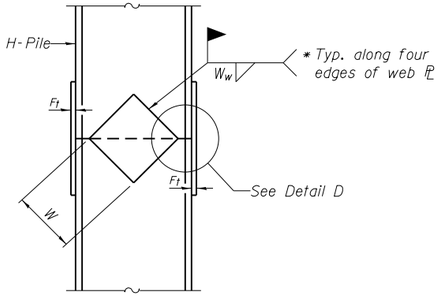
ELEVATION



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

SECTION A-A

PILE ENCASEMENT



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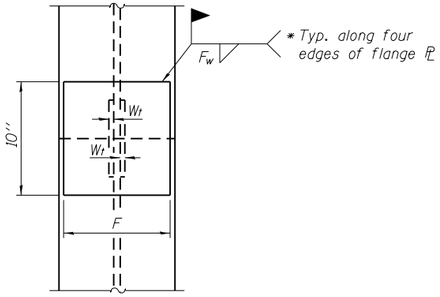
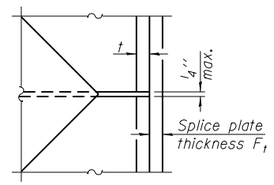


END VIEW



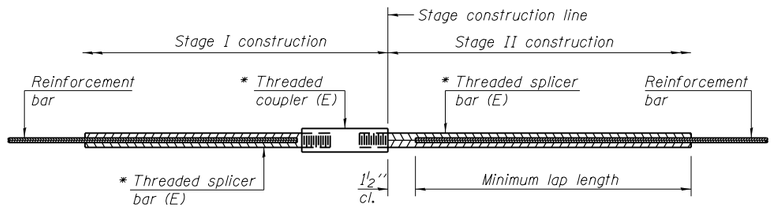
DETAIL D

Designation	F	F_t	F_w	W	W_t	W_w
HP 14x117	12 1/2''	1''	7/8''	7 3/4''	5/8''	1/2''
x102	12 1/2''	7/8''	3/4''	7 3/4''	5/8''	1/2''
x89	12 1/2''	3/4''	11/16''	7 3/4''	5/8''	1/2''
x73	12 1/2''	5/8''	9/16''	7 3/4''	5/8''	1/2''
HP 12x84	10''	7/8''	11/16''	6 1/2''	5/8''	1/2''
x74	10''	7/8''	11/16''	6 1/2''	5/8''	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''

WELDED PLATE FIELD SPLICE

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

F-HP 1-27-12



STANDARD BAR SPLICER ASSEMBLY

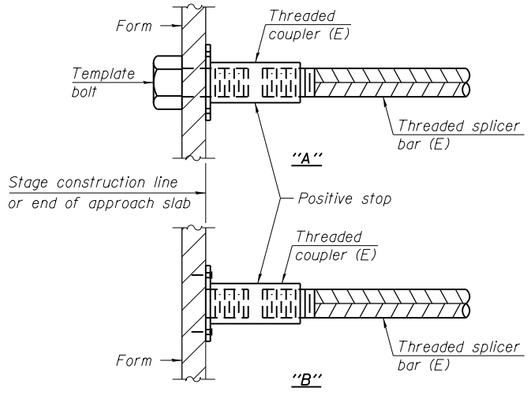
Minimum Lap Lengths						
Bar size to be spliced	Table 1	Table 2	Table 3	Table 4	Table 5	Table 6
3, 4	1'-5"	1'-11"	2'-1"	2'-4"	2'-7"	2'-11"
5	1'-9"	2'-5"	2'-7"	2'-11"	3'-3"	3'-8"
6	2'-1"	2'-11"	3'-1"	3'-6"	3'-10"	4'-5"
7	2'-9"	3'-10"	4'-2"	4'-8"	5'-2"	5'-10"
8	3'-8"	5'-1"	5'-5"	6'-2"	6'-9"	7'-8"
9	4'-7"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

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

Threaded splicer bar length = min. lap length + 1½" + thread length

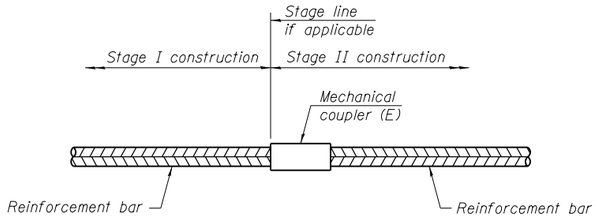
* Epoxy not required on Bar Splicer Assembly components used in conjunction with black bars.

Location	Bar size	No. assemblies required	Table for minimum lap length
Deck	5	225	Table 3
Abutment Diaphragm	6	18	Table 4
Top of Appr. Slab	4	50	Table 4
Bottom of Appr. Slab	5	92	Table 3
Appr. Footing	5	80	Table 3
Abutment Cap	7	28	Table 4



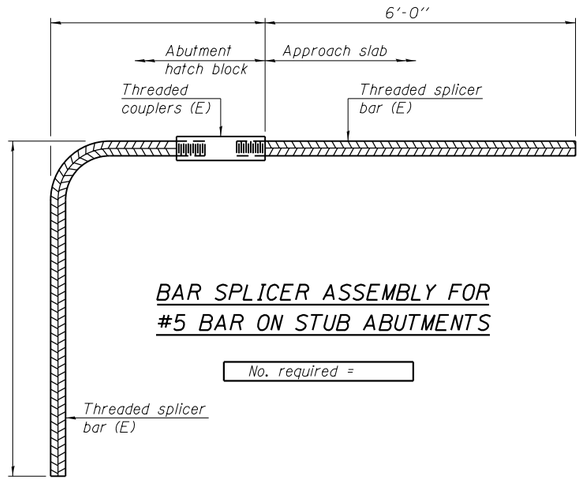
INSTALLATION AND SETTING METHODS

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



STANDARD MECHANICAL SPLICER

Location	Bar size	No. assemblies required



BAR SPLICER ASSEMBLY FOR #5 BAR ON STUB ABUTMENTS

No. required =

NOTES

Splicer bars shall be deformed with threaded ends and have a minimum 60 ksi yield strength.

All reinforcement shall be lapped and tied to the splicer bars.

Bar splicer assemblies shall be epoxy coated according to the requirements for reinforcement bars. See Section 508 of the Standard Specifications.

See approved list of bar splicer assemblies and mechanical splicers for alternatives.

BSD-1

8-31-12

FILE NAME = H:\P\10115\WO 3 - IL 97 over Haw Creek\Structural\Final Plans\Microstation\048D098-68754-020-Bar Splicer Assembly and Mechanical Splicer Details.dgn

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ILLINOIS DESIGN FIRM LICENSE NO: 184.001115

USER NAME =	DESIGNED -	REVISED -
	CHECKED -	REVISED -
PLOT SCALE =	DRAWN -	REVISED -
PLOT DATE = 10/13/2015	CHECKED -	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

BAR SPLICER ASSEMBLY AND MECHANICAL SPLICER DETAILS
STRUCTURE NO. 048-0098
SHEET NO. 20 OF 32 SHEETS

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
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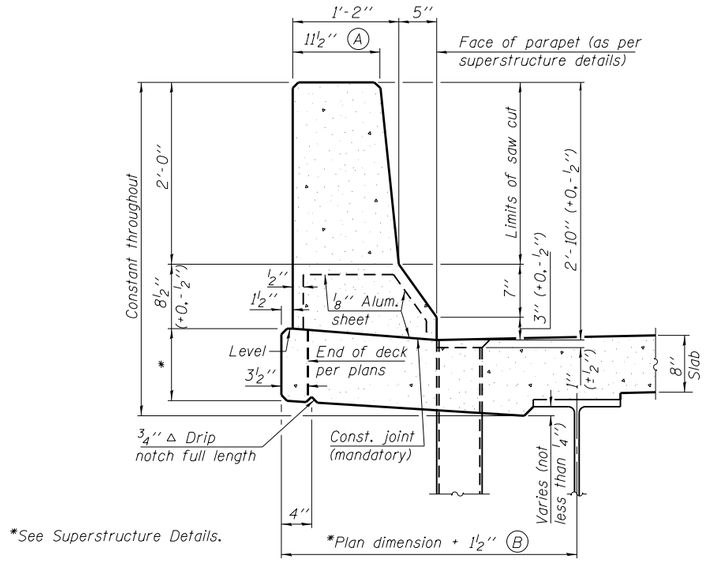
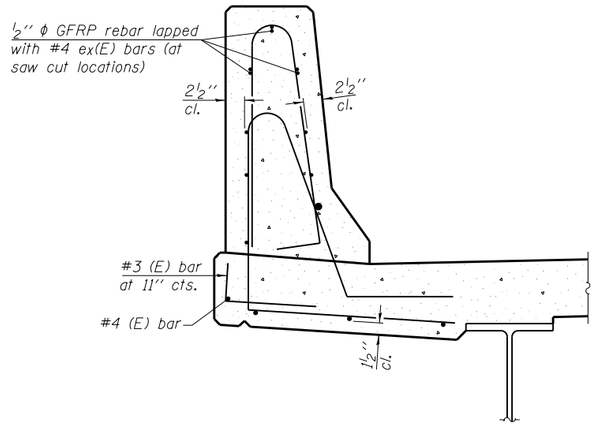
		CONTRACT NO. 68754		
		ILLINOIS	FED. AID PROJECT	



34" F SHAPE PARAPET SECTION

(Showing dimensions)



SECTION

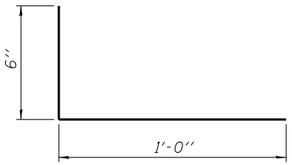
(34" parapet shown - 42" parapet similar)
(Showing reinforcement clearances for slip forming and additional reinforcement bars)

GENERAL NOTES

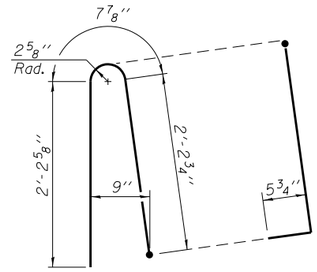
All dimensions shall remain the same as shown on superstructure details, except dimensions A and B which are to be revised as shown to provide additional clearance. Additional concrete needed to revise dimension A and B = 0.0165 cu. yds./ft. for 34" parapet or = 0.0223 cu. yds./ft. for 42" parapet.

Place aluminum sheet in curb portion at and near piers. Full thickness saw cut at all joint locations in lieu of cork joint filler.

Steel superstructure shown. Other superstructure types similar.

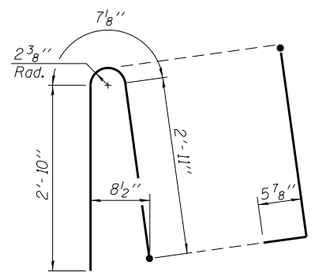


#3 (E) BAR



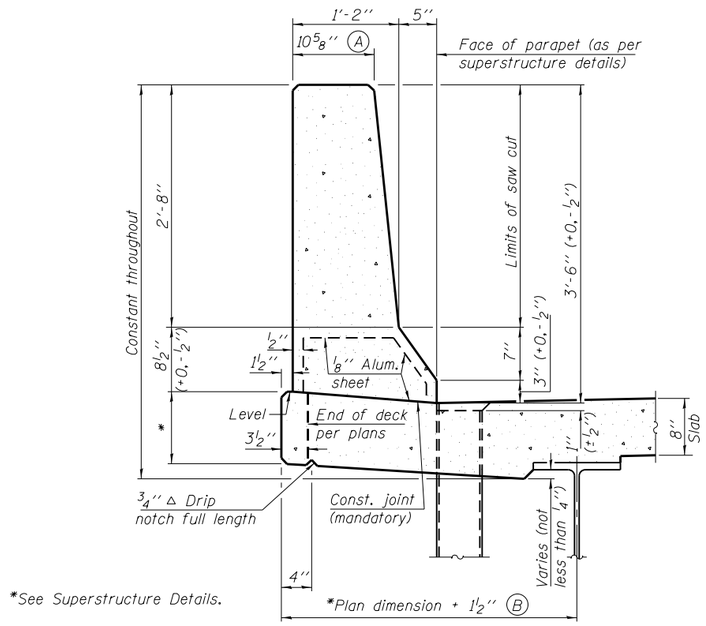
ALTERNATE BAR d(E)

(For 34" parapet when conduit is present)



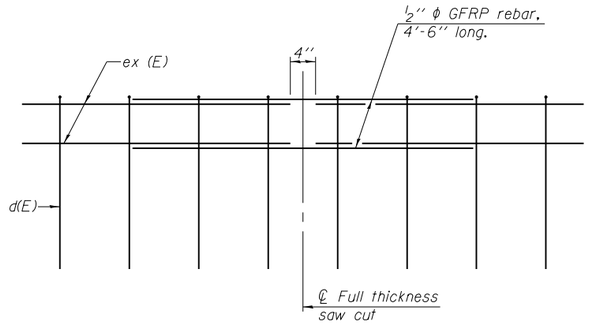
ALTERNATE BAR d(E)

(For 42" parapet when conduit is present)



42" F SHAPE PARAPET SECTION

(Showing dimensions)



GFRP REBAR STIFFENING DETAIL

(Place as shown in parapet section at each parapet joint location.)

SFP 34-42

8-16-12

FILE NAME = H:\P\10115\WD 3 - IL 97 over Hoo Creek\Structural\Final Plans\Microstation\0480098-68754-021-Concrete Parapet Slipforming Option.dgn

OATES ASSOCIATES Engineering + Architecture
ILLINOIS DESIGN FIRM LICENSE NO: 184.001115

USER NAME =	DESIGNED -	REVISED -
	CHECKED -	REVISED -
PLOT SCALE =	DRAWN -	REVISED -
PLOT DATE = 10/13/2015	CHECKED -	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

CONCRETE PARAPET SLIPFORMING OPTION
STRUCTURE NO. 048-0098
SHEET NO. 21 OF 32 SHEETS

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
626	42-(B,B-1)BR-1	KNOX	152	46
		CONTRACT NO. 68754		
	ILLINOIS FED. AID PROJECT			

Illinois Department of Transportation
Division of Highways
SCI Engineering Inc

SOIL BORING LOG

Page 1 of 1

Date 1/30/14

ROUTE FAP 626 DESCRIPTION IL 97 over Haw Creek Tributary Structure Boring, North Abutment LOGGED BY SCI (MGS)

SECTION 42-(B,B-1)BR-1 LOCATION SW 1/4 of the SW 1/4, SEC. 1, TWP. 10N, RNG. 2E, 4th PM, Latitude , Longitude

COUNTY Knox DRILLING METHOD CFA HAMMER TYPE Automatic

STRUCT. NO. 048-0014 (EX) 048-0098 (PR)
Station 397+12

BORING NO. B-1
Station 396+61.47
Offset 12.3 ft RT
Ground Surface Elev. 668.1 ft

Surface Water Elev. N/A ft
Stream Bed Elev. N/A ft

Groundwater Elev.:
First Encounter 640.1 ft ▼
Upon Completion -- ft
After N/A Hrs. N/A ft

DEPTH (ft)	BLOWS (/6")	UCS Qu (tsf)	MOIST (%)	Material
				FILL: Brown, silty clay loam, with shale, trace gravel, A-6
	13 14 9	>4.5 P	20	
	2 3 3	1.5 P	23	
-5				
	3 3 4	1.2 S/15	26	Becomes greenish gray
660.1				
	2 3 4	1.2 S/20	29	FILL: Dark gray and gray, clay, with iron stains, A-7
-10				
	3 3 4	0.9 B	27	
655.1				
	3 3 4	0.4 B	31	SILTY CLAY: Dark gray and greenish gray, A-7
-15				
	2 2 3	0.5 B	34	Becomes dark gray, trace iron stains
				Trace roots
	1 2 2	1.1 B	22	
-20				

DEPTH (ft)	BLOWS (/6")	UCS Qu (tsf)	MOIST (%)	Material
647.6				SHALE: Dark gray, trace fine sand
	50/3"	--	14	
	32 50/4"	--	12	
-25				
	28 50/4"	--	11	
640.1 ▼				COAL: Black
	41 50/3"	--	24	
-30				
636.1				CLAYEY SHALE: Gray
	24 47 50/3"	>4.5 P	16	
-35				
628.8				Boring terminated at 39.3 ft.
-40				

The Unconfined Compressive Strength (UCS) Failure Mode is indicated by (B-Bulge, S-Shear, P-Penetrometer)
AASHTO Classifications are based on visual classifications unless otherwise noted BBS, form 137 (Rev. 8-99)

Illinois Department of Transportation
Division of Highways
SCI Engineering Inc

SOIL BORING LOG

Page 1 of 1

Date 1/29/14

ROUTE FAP 626 DESCRIPTION IL 97 over Haw Creek Tributary Structure Boring, South Abutment LOGGED BY SCI (MGS)

SECTION 42-(B,B-1)BR-1 LOCATION NW 1/4 of the SW 1/4, SEC. 1, TWP. 10N, RNG. 2E, 4th PM, Latitude , Longitude

COUNTY Knox DRILLING METHOD CFA HAMMER TYPE Automatic

STRUCT. NO. 048-0014 (EX) 048-0098 (PR)
Station 397+12

BORING NO. B-2
Station 397+64.17
Offset 12.3 ft LT
Ground Surface Elev. 666.6 ft

Surface Water Elev. N/A ft
Stream Bed Elev. N/A ft

Groundwater Elev.:
First Encounter 646.6 ft ▼
Upon Completion -- ft
After N/A Hrs. N/A ft

DEPTH (ft)	BLOWS (/6")	UCS Qu (tsf)	MOIST (%)	Material
666.3				4" ASPHALT
	31 18 12	>4.5 P	22	FILL: Brown and gray, silty loam, A-6
663.6				
	1 2 4	1.8 B	22	FILL: Brown, silty clay loam, with shale, trace gravel, A-7
-5				
	2 3 3	1.7 B	27	Becomes dark gray
658.6				
	1 2 2	0.2 B	31	CLAY: Greenish gray, A-6
-10				
656.1				
	2 3 4	1.1 S/20	28	SILTY CLAY LOAM: Dark gray, A-6
653.6				
	3 3 6	2.7 B	26	CLAY: Dark gray, trace iron nodules and stains, A-7
-15				
	3 3 2	1.1 B	21	
647.6				
	2 2 4	2.0 S/20	21	CLAYEY SHALE: Dark gray, trace iron nodules and stains
▼-20				

DEPTH (ft)	BLOWS (/6")	UCS Qu (tsf)	MOIST (%)	Material
646.1				SHALE: Dark gray
	16 11 26	--	14	
	22 50/5"	--	12	
-25				
641.1				COAL: Black
	N mod	--	23	
638.6				CLAYEY SHALE: Gray
-30	N mod	2.0 S/10	20	
636.1				COAL: Black
	N mod	--	41	
633.6				CLAYEY SHALE: Gray
-35	N mod	1.0 S/10	16	
	N mod	1.6 S/10	20	
626.6 -40				Boring terminated at 40.0 ft.

The Unconfined Compressive Strength (UCS) Failure Mode is indicated by (B-Bulge, S-Shear, P-Penetrometer)
AASHTO Classifications are based on visual classifications unless otherwise noted BBS, form 137 (Rev. 8-99)

FILE NAME = H:\P\10115\WO 3 - IL 97 over Haw Creek\Structural\Final Plans\Microstation\048D098-68754-022-Soil Boring Logs.dgn

OATES ASSOCIATES Engineering + Architecture
ILLINOIS DESIGN FIRM LICENSE NO: 184.001115

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PLOT DATE = 10/13/2015	CHECKED -	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

SOIL BORING LOGS
STRUCTURE NO. 048-0098
SHEET NO. 22 OF 32 SHEETS

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
626	42-(B,B-1)BR-1	KNOX	152	47
		CONTRACT NO. 68754		
	ILLINOIS	FED. AID PROJECT		

ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
FAP 626	-	Knox	11	10
FED. ROAD DIST. NO. 1		ILLINOIS	FED. AID PROJECT	

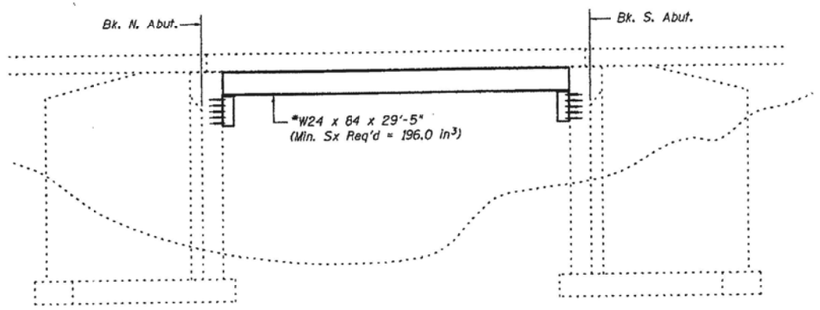
SHEET NO. 1
2 SHEETS

Contract # 68767

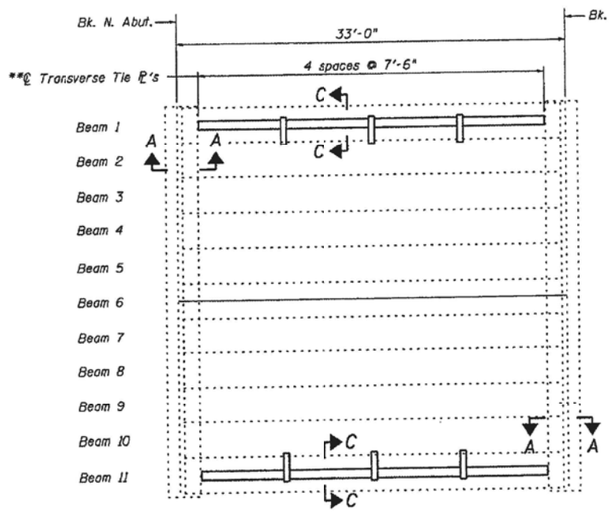
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

*Contractor is to verify beam length prior to ordering material. Other sections meeting the section modulus requirements shown may be allowed subject to approval by the Bureau of Bridges and Structures.

**℄ Transverse tie ℙ's (3 per span). Place additional shims at midpoints between tie ℙ's. Securely weld shims to top flange of support beam. Minimum shim size is 6" x flange width. Spacing may be adjusted to miss adjacent transverse tie ℙ's.



ELEVATION



PLAN

GENERAL NOTES

All structural steel shall conform to AASHTO Classification M-270 Gr. 36, unless otherwise noted.

Plan dimensions and details relative to existing plans are subject to routine variations. The Contractor shall field verify existing dimensions and details affecting new construction and make necessary approved adjustments prior to construction or ordering of materials. Such variations shall not be cause for additional compensation for a change in scope of the work, however, the Contractor will be paid for the quantity actually furnished based upon the unit price bid for the work.

See Section 584 of the Standard Specifications for Epoxy Grouting of Threaded Rods: Min. embedment 9".

The cost of epoxy grouting threaded rods shall be included with Furnishing and Erecting Structural Steel.

The contractor is advised that the existing PPC Deck Beams are in a deteriorated condition with reduced load carrying capacity. It is the contractors responsibility to account for the condition of the beams when developing construction procedures.

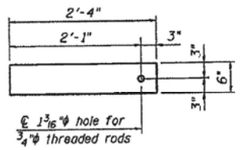
If the contractor's procedure for placement of beams involves placement of cranes or other heavy equipment on the bridge, a detailed procedure shall be submitted to the Engineer for approval. The procedure shall include calculations, prepared and sealed by an Illinois Licensed Structural Engineer, verifying that the equipment and procedure used will not overstress the existing beams. To distribute load to multiple beams and protect the existing surface, in all cases a double layer mat of heavy timbers shall be used at all times under crane tracks or wheels and any outriggers in the down position. If necessary, shims shall be used under the crane mat to ensure uniform contact with the underlying beams.

Contractor has the option of using used steel. See Special Provision.

*A third steel support beam was added in 2010 for a total of 3 existing steel support beams

TOTAL BILL OF MATERIAL

ITEM	UNIT	QUANTITY
Furnishing and Erecting Structural Steel	Pound	5,800



TRANSVERSE TIE ℙ's
ℙ ½" x 2'-4" x 6" (6 Req'd.)

STATE OF ILLINOIS
SCOTT D. SANFORD
081-005468
LICENSED SPRINGFIELD
STRUCTURAL ENGINEER
11-26-07
Expires: 11/30/08

GENERAL PLAN AND ELEVATION
REPAIR DETAILS
IL RTE 97
OVER HAW CREEK TRIBUTARY
KNOX COUNTY
S.N. 048-0014

DESIGNED	CMV
CHECKED	SDS
DRAWN	DLH
CHECKED	CMV

WHKS & CO.
ENGINEERS PLANNERS LAND SURVEYORS
MASON CITY, IOWA DUBUQUE, IOWA AMES, IOWA
E. DUBUQUE, ILLINOIS SPRINGFIELD, ILLINOIS ROCHESTER, MINNESOTA

Filename: L:\Jobs\IDOT BBS\6727 BBS Various\6727.09\CADD_Struct\S.N. 048-0014\S.N. 048-0014_rev 1.dgn
Operator: dhebeling
Date: 11/26/2007

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OATES ASSOCIATES Engineering + Architecture
ILLINOIS DESIGN FIRM LICENSE NO: 184.001115

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		CHECKED -	REVISED -
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PLOT DATE =	10/13/2015	CHECKED -	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

EXISTING BRIDGE PLANS
FOR INFORMATION ONLY
SHEET NO. 23 OF 32 SHEETS

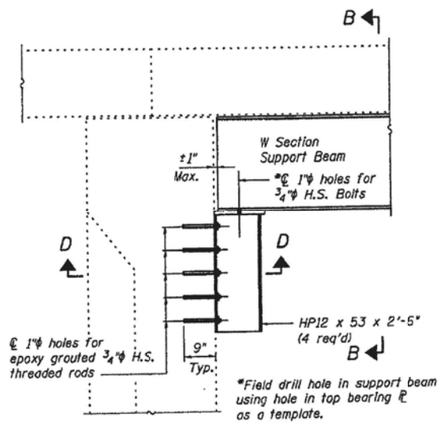
F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
626	42-(B,B-1)BR-1	KNOX	152	48
		CONTRACT NO. 68754		
	ILLINOIS	FED. AID PROJECT		

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

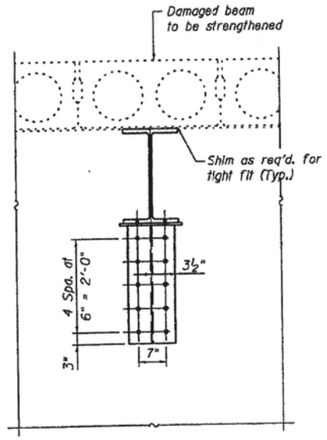
ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
FAP 626	-	Knox	11	11
FED. ROAD DIST. NO. 4		ILLINOIS	FED. AID PROJECT-	

SHEET NO. 2
2 SHEETS

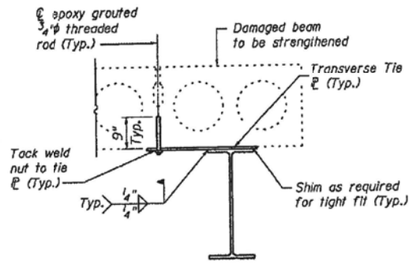
Contract # 68767



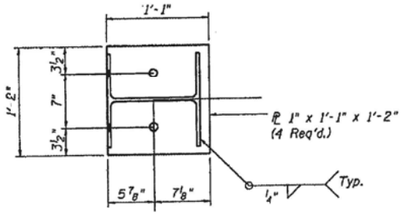
SECTION A-A
(typical at all supports)



SECTION B-B
(typical at all supports)



SECTION C-C



SECTION D-D

Operator: dheberling
Date: 11/28/2007
Filename: L:\Jobs\IDOT BBS\5727 BBS Various Various\5727.09\CADD_Struct\S.N. 048-0014\S.N. 048-0014_rev 1.dgn

DESIGNED	CMV
CHECKED	SDS
DRAWN	DLH
CHECKED	CMV

WHKS & CO.
ENGINEERS ■ PLANNERS ■ LAND SURVEYORS
MASON CITY, IOWA DUBUQUE, IOWA AMES, IOWA
E. DUBUQUE, ILLINOIS SPRINGFIELD, ILLINOIS ROCHESTER, MINNESOTA

REPAIR DETAILS
IL RTE 97
OVER HAW CREEK TRIBUTARY
KNOX COUNTY
S.N. 048-0014

FILE NAME = H:\P\10115\WO 3 - IL 97 over Haw Creek\Structural\Final Plans\Microstation\048098-68754-024-Existing Bridge Plans.dgn

OATES ASSOCIATES Engineering + Architecture
ILLINOIS DESIGN FIRM LICENSE NO: 184.001115

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STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

EXISTING BRIDGE PLANS
FOR INFORMATION ONLY
SHEET NO. 24 OF 32 SHEETS

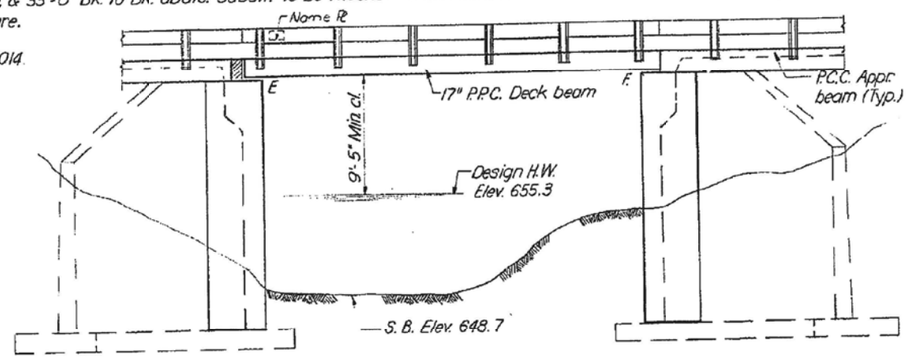
F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
626	42-(B,B-1)BR-1	KNOX	152	49
		CONTRACT NO. 68754		
	ILLINOIS	FED. AID PROJECT		

ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
F.A.P. RTE. 626	42B(B)BR	KNOX	13	4
FED. ROAD DIST. NO. 7	ILLINOIS	FED. AID PROJECT		

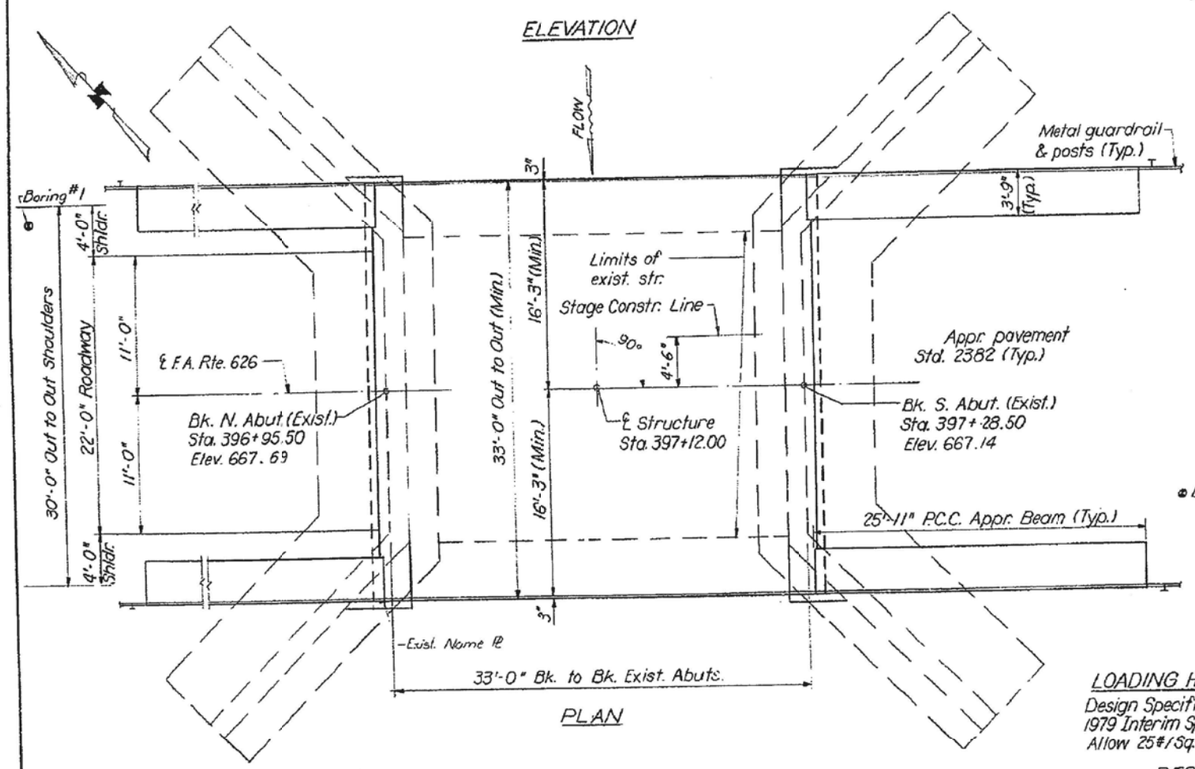
SHEET NO. 1
8 SHEETS

Benchmark: Chiseled square on N.W. Abutment of bridge, Sta. 396+95, Elev. 667.15.
Existing Structure: Built as S.B.I. Rte. 8, Sec. 42-B, 396+95 in 1926. R.C.D.G. Superstr. on closed abuts., 24'-2" O. to O. & 33'-0" Bk. to Bk. abuts. Substr. to be widened to accommodate new P.P.C. Deck beam superstructure.
No salvage.
Bridge # 048-0014.

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION



ELEVATION



PLAN

The width between guardrails shall be the width of the bridge. Shoulder widening may be required for the length of the guardrails.

DESIGNED M.J. RYANN	EXAMINED DECEMBER 27 19 D
CHECKED DAN KRULL	PASSED
DRAWN R. Doty	APPROVED

STATION 397+12.00
BUILT 19 BY
STATE OF ILLINOIS
F.A. RT. 626 SEC.(42B)BR

LOADING HS20
*STR. NO.

NAME PLATE
(See Std. 2113)

*Structure Number to be supplied by District.

GENERAL NOTES

All structural steel shall be shop painted with two coats of basic lead silico chromate paint.

Expansion guards which are not cast in the precast unit shall be fabricated and erected in accordance with Article 503.07(c) of the Standard Specifications and are included in quantity of structural steel.

Reinforcement bars shall conform to the requirements of AASHTO M31 or M-53 Grade 60.

The top surface of the beams shall be finished in accordance with Article 505.06 of the Standard Specifications except that the surface shall not be roughened by brooming. The finished surface shall be free of depressions or high spots with sharp corners.

Expansion bolts shall consist of self drilling expansion anchors and ¾"ø x 12" hooked bolts.

Plan dimensions and details relative to existing structure have been taken from existing plans and are subject to nominal construction variations. It shall be the Contractor's responsibility to verify such dimensions and details in the field and make necessary approved adjustments prior to construction or ordering of materials. Such variations shall not be cause for additional compensation for a change in the scope of the work, however, the Contractor will be paid for the quantity actually furnished at the unit price bid for the work.

For Boring Data See Proposal.

TOTAL BILL OF MATERIAL

Item	Unit	Super	Sub	Total
Bituminous Concrete Surface Course, Class I	Tons	14		14
Removal of Existing Superstructures	Each	1		1
Concrete Removal	Cu.Yd.		11	11
Expansion Bolts (¾ø)	Each		80	80
Class X Concrete	Cu.Yd.	36	34.7	38.3
Precast Concrete Bridge Slab	Sq.Ft.	389		389
Precast Prestressed Concrete Deck Beams (17" Depth)	Sq.Ft.	1060		1060
Structural Steel	Pound	2340		2340
Steel Railing, Type "S"	Lin.Ft.	170		170
Reinforcement Bars	Pound	110	2340	2450
Name Plates	Each	1		1
Portland Cement Mortar Fairing Course	Lin.Ft.	321		321
Preformed Joint Sealer (2½")	Lin.Ft.	34		34
Waterproofing Membrane System	Sq.Yd.	123		123
Temporary Bridge Rail	Lin.Ft.	33		33
Structure Excavation	Cu.Yd.		36	36

WATERWAY INFORMATION

Drainage Area	3.5 Sq. Miles
Design Discharge (50 Year)	1315 c.f.s.
Existing Opening (Below 50 Yr. H.W.E.)	228 Sq. Ft.
Required Opening (Below 50 Yr. H.W.E.)	228 Sq. Ft.
Proposed Opening (Below 50 Yr. H.W.E.)	228 Sq. Ft.
Created Head for Design Flood	1.15 Ft.
100 Year Discharge	1516 c.f.s.
Created Head for 100 Year Flood	1.3 Ft.

LOADING HS-20-44 (SUPERSTRUCTURE)

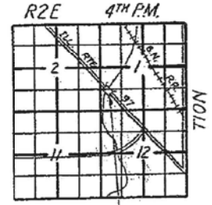
Design Specifications: 1977 AASHTO, 1978 and 1979 Interim Specifications as applicable.
Allow 25#/Sq.Ft. for future wearing surface.

DESIGN STRESSES

Field Units	Precast Units
f'c = 3,500 p.s.i.	f'c = 4,500 p.s.i.
fy = 60,000 p.s.i.	fc = 1,800 p.s.i.
	fs = 20,000 p.s.i.

Precast Prestressed Units
f'c = 5,000 p.s.i.
f'ci = 4,000 p.s.i.
f's = 270,000 p.s.i. (½"ø Strands)
[illegible] p.s.i. (0.44 Strands)

CARL E. TRUEMAN JR. STATE OF ILLINOIS



Proposed reconstruction

GENERAL PLAN AND ELEVATION
F.A. ROUTE 626 OVER HAW CREEK
F.A. ROUTE 626 SECTION (42B)BR
KNOX COUNTY
STATION 397+12.00

FILE NAME = H:\P\10115\WD 3 - IL 97 over Haw Creek\Structural\Final Plans\Microstation\048098-68754-025-Existing Bridge Plans.dgn

OATES ASSOCIATES Engineering + Architecture
ILLINOIS DESIGN FIRM LICENSE NO: 184.001115

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	CHECKED -	REVISED -	
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PLOT DATE = 10/13/2015	CHECKED -	REVISED -	

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

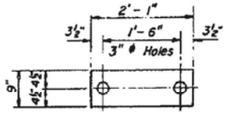
EXISTING BRIDGE PLANS
FOR INFORMATION ONLY
SHEET NO. 25 OF 32 SHEETS

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
626	42-(B,B-1)BR-1	KNOX	152	50
		CONTRACT NO. 68754		
	ILLINOIS	FED. AID PROJECT		

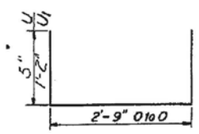
STATE OF ILLINOIS
DEPARTMENT OF PUBLIC WORKS & BUILDINGS
DIVISION OF HIGHWAYS

ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
626	(42B)BR	Knox	13	6

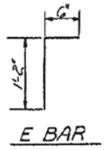
SHEET NO. 3
8 SHEETS



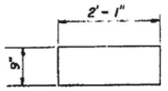
FABRIC BEARING PAD



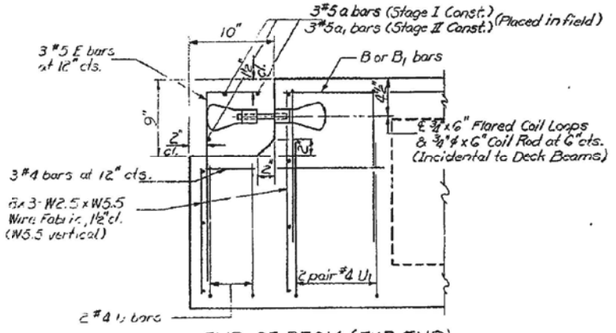
U & U1 BAR



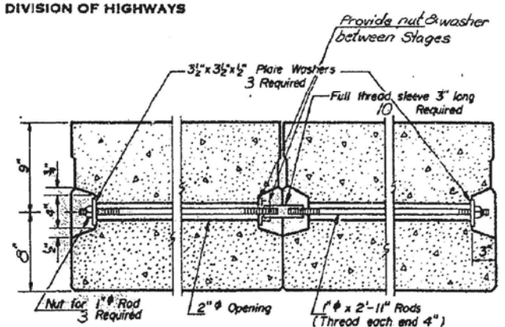
E BAR



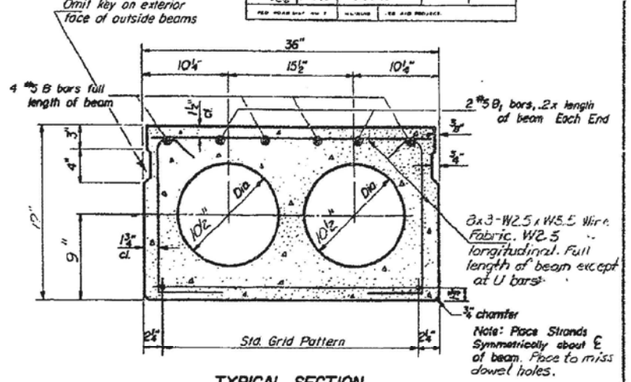
GRAPHITED ASBESTOS BEARING PAD



END OF BEAM (EXP. END)

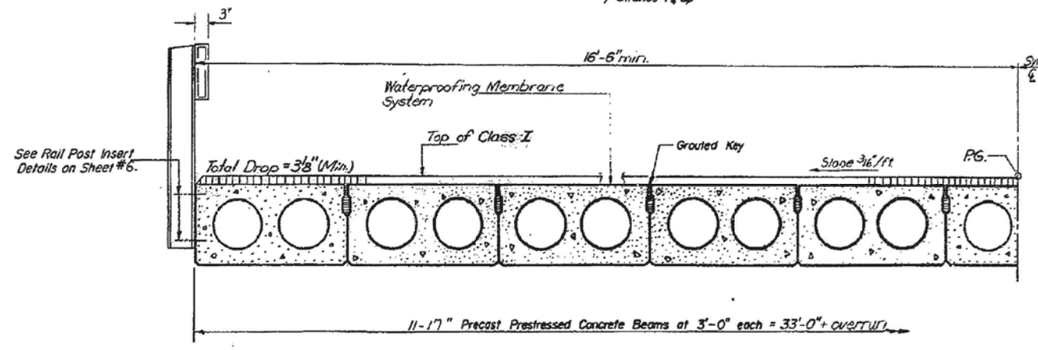


TYPICAL TRANSVERSE TIE ASSEMBLY

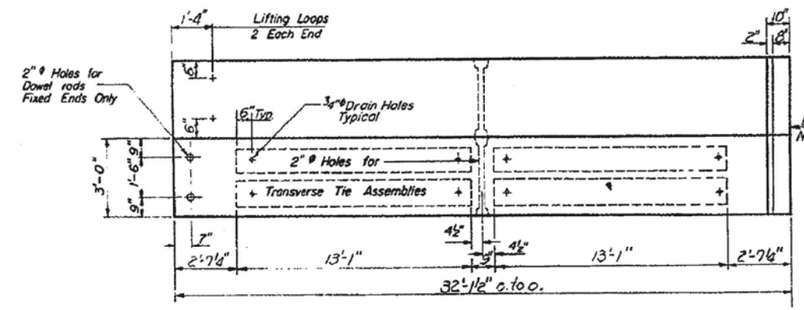


TYPICAL SECTION

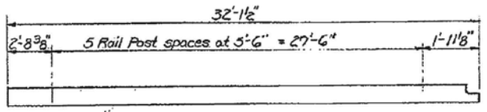
7-½ϕ Strands Each Strand Stressed to 28,900 lbs.
7 Strands 1⅜" up



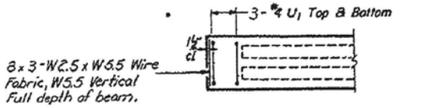
HALF CROSS SECTION



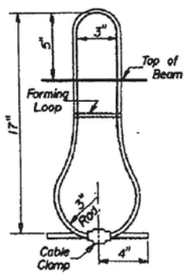
PLAN



BEAM ELEVATION FOR RAIL POST SPACING
(Outside Beams Only)



END PLAN
(Fixed)



LIFTING LOOP DETAIL

GENERAL NOTES

Prestressing steel shall be non-galvanized high strength, stress-relieved 7-wire strand, Grade 270. The nominal diameter shall be ½" and the nominal cross-sectional area shall be 0.153 sq. in..

Lifting loops shall be ½" diameter, 6 x 25 class wire rope with fiber core and shall have a minimum ultimate tensile strength of 21,000 lbs.

The 1" ϕ rods in the transverse tie assembly shall be tightened to a snug fit and the threads set. Pockets that receive transverse tie bar on outside beam shall be filled with grout after transverse tie assembly is in place.

Longitudinal shear keys shall be packed with a very dry mix of 2:1 sand and P.C. mortar. After beams have been erected, holes for the dowel anchors shall be drilled into the sub-structure and the anchor dowels shall be grouted in place.

Reinforcement bars shall conform to AASHTO: M-31 or M-53, Grade 60.

Cost of reinforcement and accessories cast into the beam, of bearing pads, of armor angles, and of grouting longitudinal shear keys is included in unit price bid for "Precast Prestressed Concrete Deck Beams"

BILL OF MATERIAL

Bar	No.	Size	Length	Shape
a	3	#5	12'-5"	
a_1	3	#5	21'-3"	
Precast Prestressed Concrete Deck Beams (17" Depth)		Sq. Ft.	1050	
Class K Concrete		Cu. Yd.	2.0	
Reinforcement Bars		Pound	110	

DESIGNED	M.J. RYANN
CHECKED	DAN KRULL
DRAWN	Joe Sutherland
CHECKED	DK

EXAMINED — Dec. 27 1979
PASSED
APPROVED

SUPERSTRUCTURE
F.A. RT. 626 SEC. (42B) BR
KNOX COUNTY
STATION 397+12.00

FILE NAME = H:\P\10115\WD 3 - IL 97 over Hen Creek\Structural\Final Plans\Microstation\0480898-68754-026-Existing Bridge Plans.dgn

OATES ASSOCIATES
Engineering + Architecture
ILLINOIS DESIGN FIRM LICENSE NO: 184.001115

USER NAME =	DESIGNED -	REVISED -
	CHECKED -	REVISED -
PLOT SCALE =	DRAWN -	REVISED -
PLOT DATE = 10/13/2015	CHECKED -	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

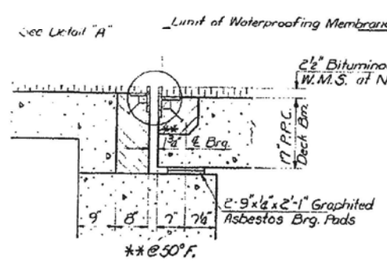
EXISTING BRIDGE PLANS
FOR INFORMATION ONLY
SHEET NO. 26 OF 32 SHEETS

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
626	42-(B,B-1)BR-1	KNOX	152	51
		CONTRACT NO. 68754		
		ILLINOIS	FED. AID PROJECT	

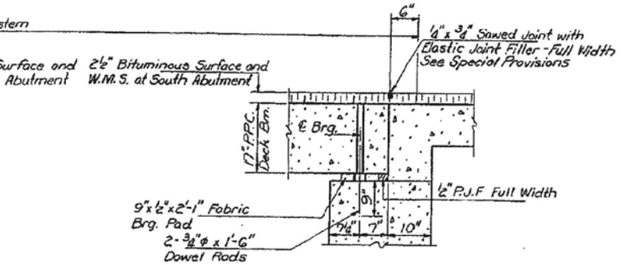
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
F.A.P. RTE. 626	42B(BR)	Knox	13	7
FED. ROAD DIST. NO. 7	ILLINOIS	FED. AID PROJECT		

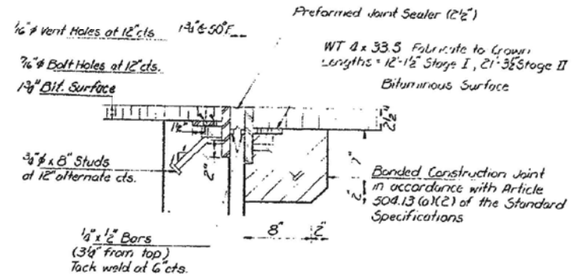
SHEET NO. 4
8 SHEETS



SECTION THRU NORTH ABUTMENT AT ℄ ROADWAY



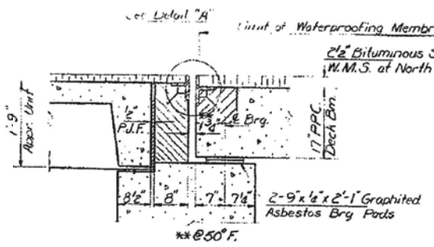
SECTION THRU SOUTH ABUTMENT AT ℄ ROADWAY



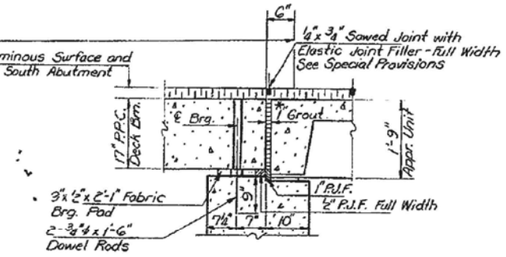
DETAIL "A"

Notes: Hatched area to be poured after beams are in place. Class X Concrete quantities in hatched areas are billed with the Superstructure.

Ends of beams shall be aligned at the expansion joints. Any lineal variation in the beam lengths shall be placed at the fixed joint.

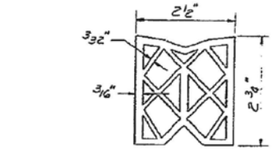


SECTION THRU NORTH ABUTMENT AT OUTSIDE BEAM



SECTION THRU SOUTH ABUTMENT AT OUTSIDE BEAM

*1" Joint shall be packed with a very dry mix of 2:1 sand and Portland Cement Mortar. 1" dimension may vary plus or minus to accommodate tolerance in beam lengths.



PREFORMED JOINT SEALER (2½")

DESIGNED	M.J. RYANN
CHECKED	DAN KRULL
DRAWN	Joe Sutherland
CHECKED	DK

EXAMINED Dec. 27 1979
PASSED
APPROVED

SUPERSTRUCTURE DETAILS
F.A. RT. 626 SEC. (42B)BR
KNOX COUNTY
STATION 592+12.00

FILE NAME = H:\P\10115\WO 3 - IL 97 over Hen Creek\Structural\Final Plans\Microstation\K68098-68754-027-Existing Bridge Plans.dgn

OATES ASSOCIATES Engineering + Architecture
ILLINOIS DESIGN FIRM LICENSE NO: 184.001115

USER NAME =	DESIGNED -	REVISED -
	CHECKED -	REVISED -
PLOT SCALE =	DRAWN -	REVISED -
PLOT DATE = 10/13/2015	CHECKED -	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

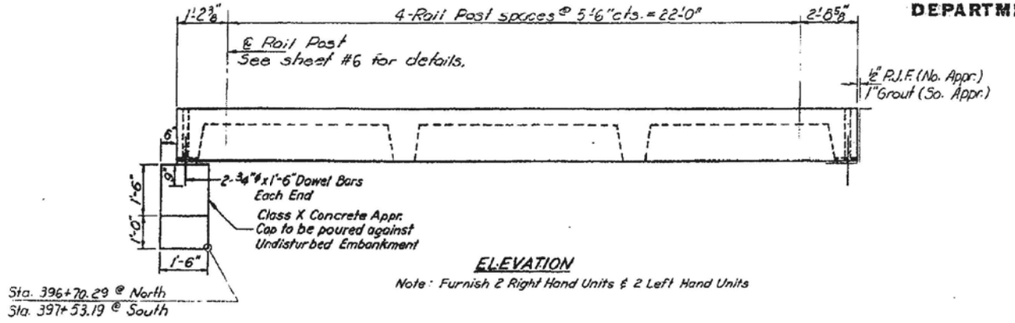
EXISTING BRIDGE PLANS
FOR INFORMATION ONLY
SHEET NO. 27 OF 32 SHEETS

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
626	42-(B,B-1)BR-1	KNOX	152	52
		CONTRACT NO. 68754		
	ILLINOIS	FED. AID PROJECT		

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

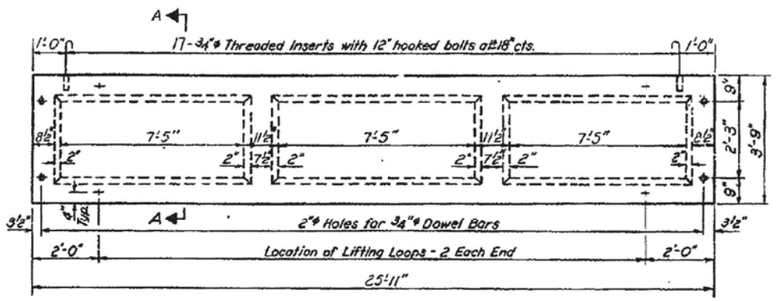
DISTRICT NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
D-8-L P.N. 6626	(42B)BR	Knox	13	8
PROJ. ENGINEER (NO. 1)	PLANNING	PROJ. AND PROPERTY		

SHEET NO. 5
8 SHEETS

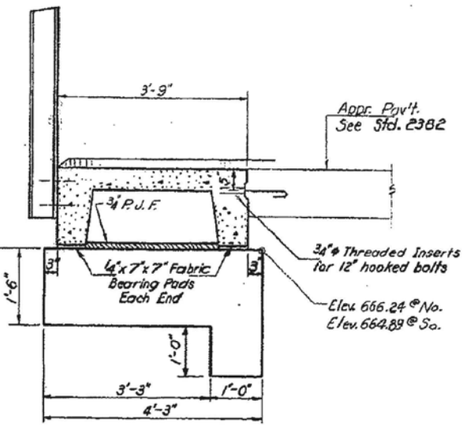


ELEVATION

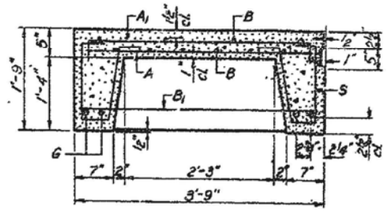
Note: Furnish 2 Right Hand Units & 2 Left Hand Units



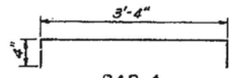
PARTIAL PLAN OF APPROACH



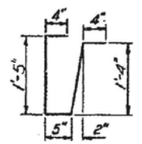
SECTION A-A



SECTION THRU PRECAST UNIT



BAR A1



BAR S

BAR LIST - ONE UNIT
Reinforcement to be cast into slab

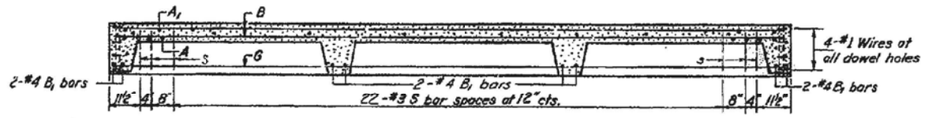
Bar	No	Size	Length	Shape
A	68	#4	3'-3"	
A1	34	#4	4'-0"	
B	10	#4	25'-6"	
B1	8	#4	3'-6"	
G	4	#11	25'-6"	
S	27	#3	3'-10"	

NOTES

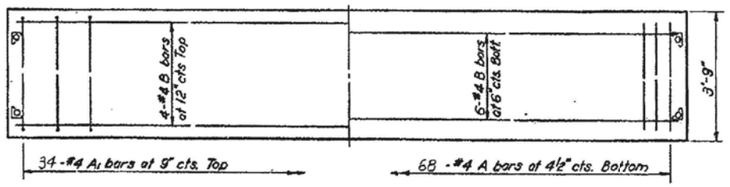
Unless otherwise approved by the Engineer, lifting loops shall be ½"ø, 6x25 class wire rope with fiber core and shall have a minimum ultimate strength of 21,000 lbs. Loops shall be burned off after slab has been erected. Holes shall be drilled and anchor dowels grouted in place.

Cost of reinforcement and accessories cast into the slab unit, bearing pads, furnishing, drilling for, placing and grouting anchor dowels and ¾"ø hooked bolts is included in Unit bid price for "Precast Concrete Bridge Slab."

The Precast Concrete Bridge Slab shall be erected and aligned with the exterior face of the exterior Deck Beam after Deck Beams are in final position.



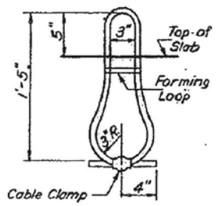
LONGITUDINAL SECTION



SLAB REINFORCEMENT

BILL OF MATERIAL

Item	Unit	Quantity
Precast Concrete Bridge Slab	Sq. Ft.	389
Class X Concrete	Cu.Yd.	1.6



STRESSES
fc = 4,500 psi.
fc = 1,800 psi.
fs = 20,000 psi.

APPROACH DETAILS
F.A. RT. 626 SEC. (42B)BR

DESIGNED	M. J. RYANN
CHECKED	DAN KROLL
DRAWN	J. L. Armstrong
CHECKED	D.K.

EXAMINED Dec. 27 1979
PASSED
APPROVED
DIRECTOR OF HIGHWAYS

OATES ASSOCIATES
Engineering + Architecture
ILLINOIS DESIGN FIRM LICENSE NO: 184.001115

USER NAME =	DESIGNED -	REVISED -
	CHECKED -	REVISED -
PLOT SCALE =	DRAWN -	REVISED -
PLOT DATE = 10/13/2015	CHECKED -	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

EXISTING BRIDGE PLANS
FOR INFORMATION ONLY
SHEET NO. 28 OF 32 SHEETS

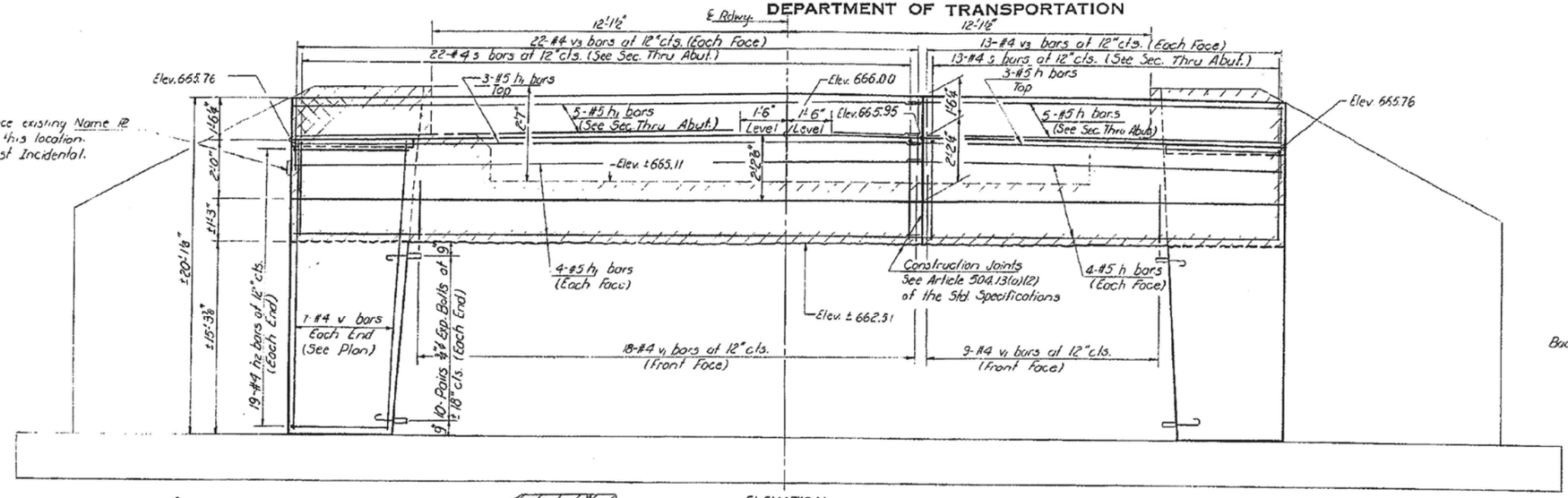
F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
626	42-(B,B-1)BR-1	KNOX	152	53
		CONTRACT NO. 68754		
	ILLINOIS FED. AID PROJECT			

FILE NAME = H:\P\10115\WD 3 - IL 97 over Hoe Creek\Structural\Final Plans\Microstation\0480098-68754-028-Existing Bridge Plans.dgn

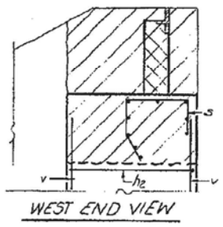
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
F.A.P. RTE. 626	(42B)BR	Knox	13	10
FED. ROAD DIST. NO. 7	ILLINOIS	FED. AID PROJECT		

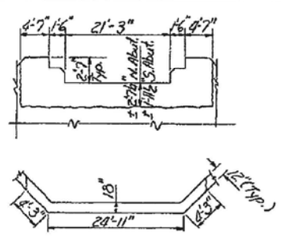
SHEET NO. 7
8 SHEETS



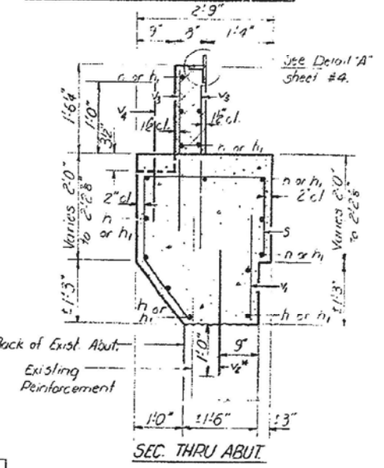
ELEVATION
(Looking North)

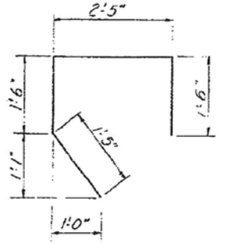


WEST END VIEW

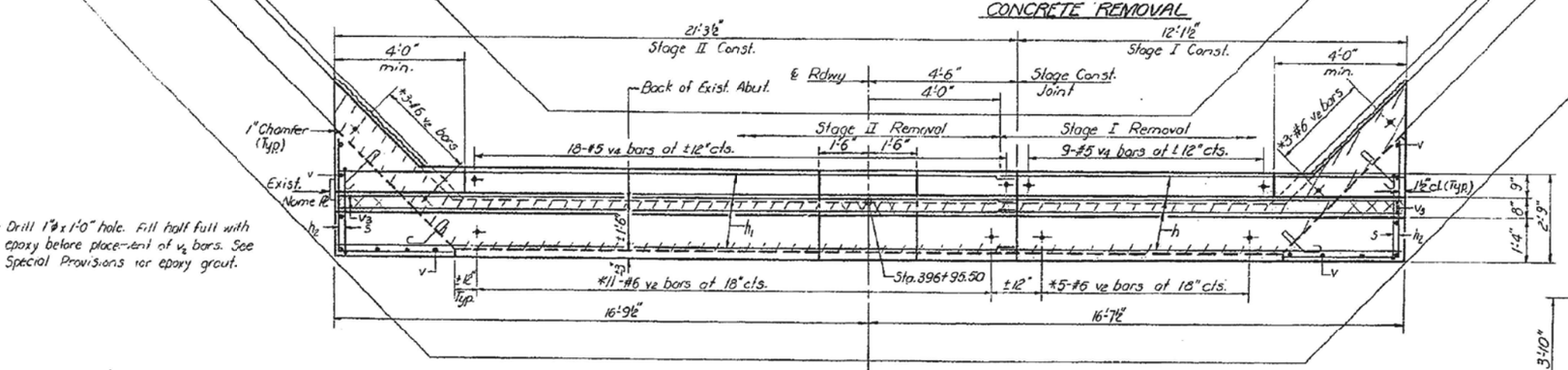


CONCRETE REMOVAL



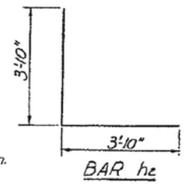


BAR s



PLAN

* Drill 1"ø x 1'-0" hole. Fill half full with epoxy before placement of v4 bars. See Special Provisions for epoxy grout.



BAR he

BILL OF MATERIAL

Bar	No.	Size	Length	Shape
h	16	#5	12'-6"	——
h1	16	#5	21'-2"	——
he	38	#4	7'-8"	L
s	35	#4	6'-10"	⌐
v	14	#4	18'-0"	——
v1	27	#4	2'-3"	——
v2	22	#6	2'-6"	——
v3	70	#4	2'-6"	——
v4	27	#5	2'-0"	——
Class 'X' Concrete			Cu Yd.	18.9
Reinforcement Bars			Pound	1380
Expansion Bolts (¾ø)			Each	40
Concrete Removal			Cu Yd.	6

DESIGNED	M.J. RYANN
CHECKED	DAN KRULL
DRAWN	R. Doty
CHECKED	DK

EXAMINED Dec. 27 1979
PASSED
APPROVED

Notes:
Hatched area indicates Concrete Removal. Reinforcement extending into removed area shall be cleaned and incorporated into the new construction.
Cross hatched area to be poured after superstructure forms have been removed. Quantity of Class 'X' Concrete included with superstructure.
Expansion bolts shall be anchored in sound concrete.
All edges shall have standard ¾" chamfers except as noted.

NORTH ABUTMENT
F.A. RT 626 SEC. (42B)BR
KNOX COUNTY
STA. 397+12.00

FILE NAME = H:\P\10115\WO 3 - IL 97 over Hen Creek\Structural\Final Plans\Microstation\04080918-68754-029-Existing Bridge Plans.dgn

OATES ASSOCIATES Engineering + Architecture
ILLINOIS DESIGN FIRM LICENSE NO: 184.001115

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PLOT DATE = 10/13/2015	CHECKED -	REVISED -	

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

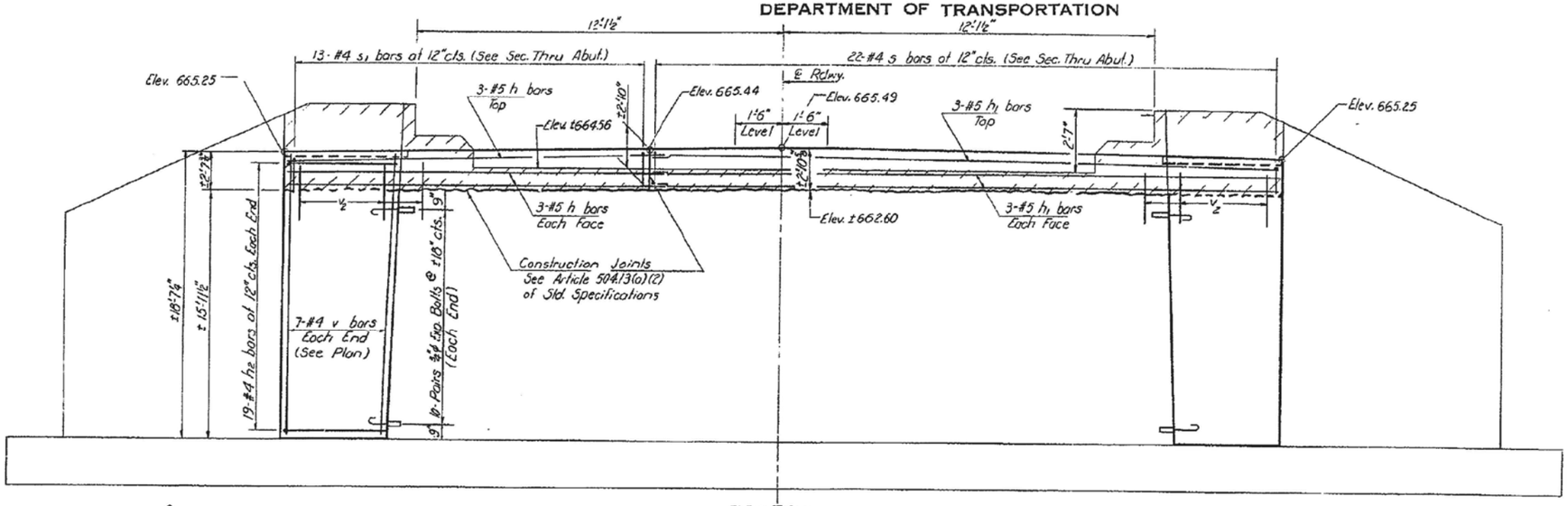
EXISTING BRIDGE PLANS
FOR INFORMATION ONLY
SHEET NO. 29 OF 32 SHEETS

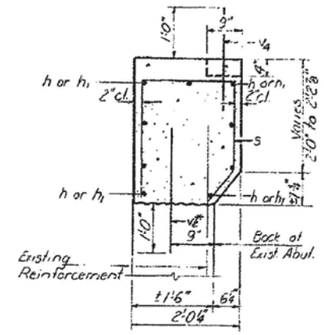
F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
626	42-(B,B-1)BR-1	KNOX	152	54
		CONTRACT NO. 68754		
	ILLINOIS	FED. AID PROJECT		

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

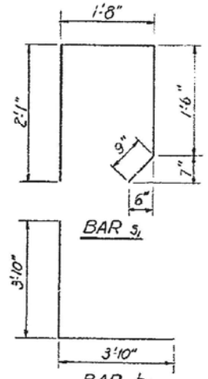
ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
F.A.S. 626	42-(B,B-1)BR	Knox	13	11
FED. ROAD DIST. NO. 7	ILLINOIS	FED. AID PROJECT		

SHEET NO. 8
8 SHEETS



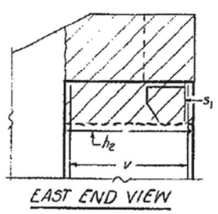


SEC. THRU ABUT.



BAR s_1

BAR h_2



EAST END VIEW

PLAN

* Drill 1"ø x 1'-0" hole. Fill half full with epoxy before placement of v2 bars. See Special Provisions for epoxy grout.

BILL OF MATERIAL

Bar	No.	Size	Length	Shape
h	9	#5	12'6"	
h_1	9	#5	21'3"	
h_2	38	#4	7'8"	L
s_1	35	#4	6'0"	
v	14	#4	18'0"	
v_2	22	#6	2'5"	
v_4	27	#5	2'-0"	
Concrete Removal		Cu.Yd.	5	
Class X Concrete		Cu.Yd.	15.8	
Reinforcement Bars		Pound	960	
Expansion Bolts (¾"ø)		Each	40	

DESIGNED	M.J. RYANN
CHECKED	DAN KZULL
DRAWN	R. Doty
CHECKED	D K

Dec. 27 1979
EXAMINED
PASSED
APPROVED

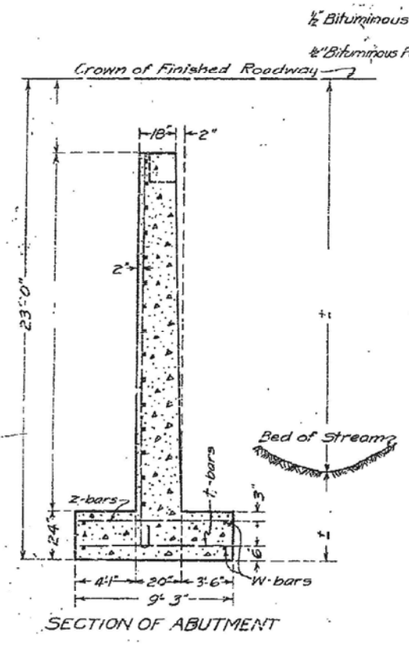
Notes:
Hatched area indicates Concrete Removal. Reinforcement extending into removed area shall be cleaned and incorporated into the new construction.
Expansion bolts shall be anchored in sound concrete.
All edges shall have standard ¾" chamfers except as noted.
See Sheet #7 for Concrete Removal Details.

SOUTH ABUTMENT
F.A. RT. 626 SEC. (42B) BR
KNOX COUNTY
STA. 397+00

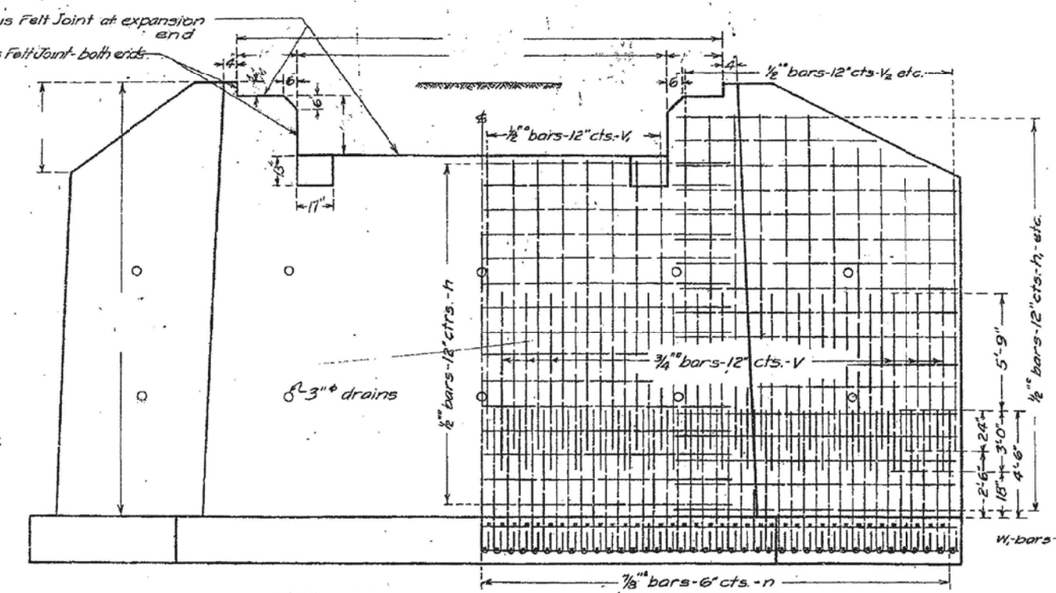
FILE NAME = H:\P\10115\WD 3 - IL 97 over Hoe Creek\Structural\Final Plans\Microstation\0488098-68754-038-Existing Bridge Plans.dgn

STATE OF ILLINOIS
DEPARTMENT OF PUBLIC WORKS & BUILDINGS
DIVISION OF HIGHWAYS

SHEET NO.
SHEETS

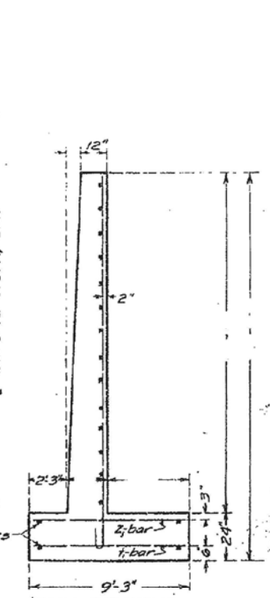


SECTION OF ABUTMENT



OUTLINES

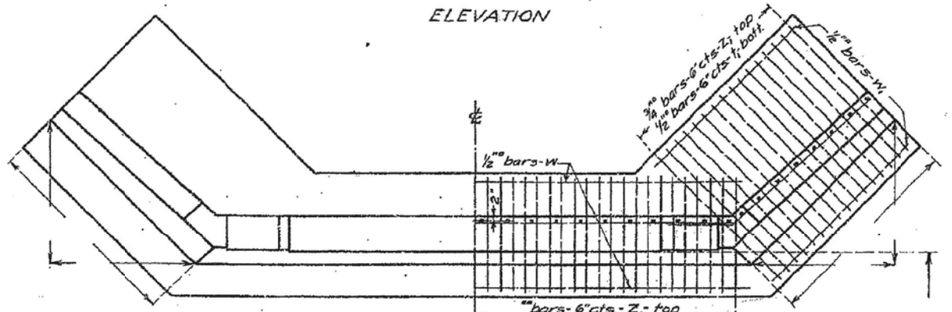
REINFORCEMENT

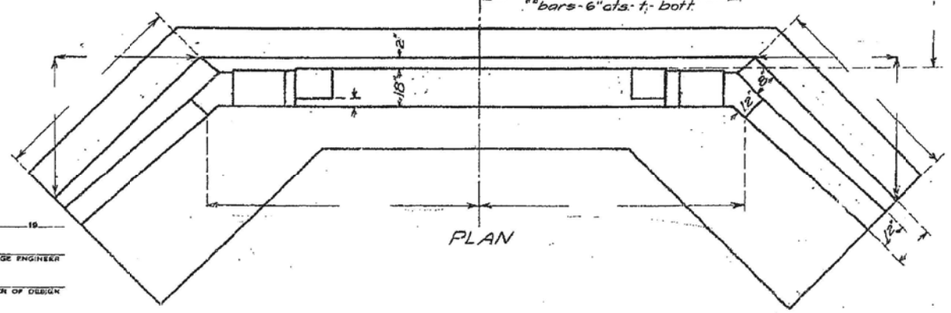


END OF WING

Note:
Class A concrete to be used throughout Proportions 1:2½:4.
t-t₁-z-z, and n bars are to be securely wired in place before concreting is begun.

ELEVATION





PLAN

BILL OF MATERIAL

Bars	No.	Size	Length
V		⅞"ϕ	8'-9"
V₁		½"ϕ	
V₂		½"ϕ	
V₃		½"ϕ	
h		½"ϕ	
h₁		½"ϕ	
h₂		½"ϕ	
n		⅞"ϕ	
z			9'-0"
z₁			9'-0"
t			9'-0"
t₁			9'-0"
w		½"ϕ	
w₁		½"ϕ	
Reinforcing Steel-Lbs.			
Concrete-Cu.Yds.			

STANDARD	COMPUTED	A.N. Johnson
	CHECKED	S.F. Mattson
	DRAWN	A.N.J.
	CHECKED	S.F.M.
SPECIAL	ASSEMBLED	
	CHECKED	

EXAMINED _____ 19__
BRIDGE ENGINEER
PASSED
ENGINEER OF DESIGN
APPROVED
CHIEF HIGHWAY ENGINEER

FILE NAME = H:\P\10115\WO 3 - IL 97 over Haw Creek\Structural\Final Plans\Microstation\04080918-68754-031-Existing Bridge Plans.dgn

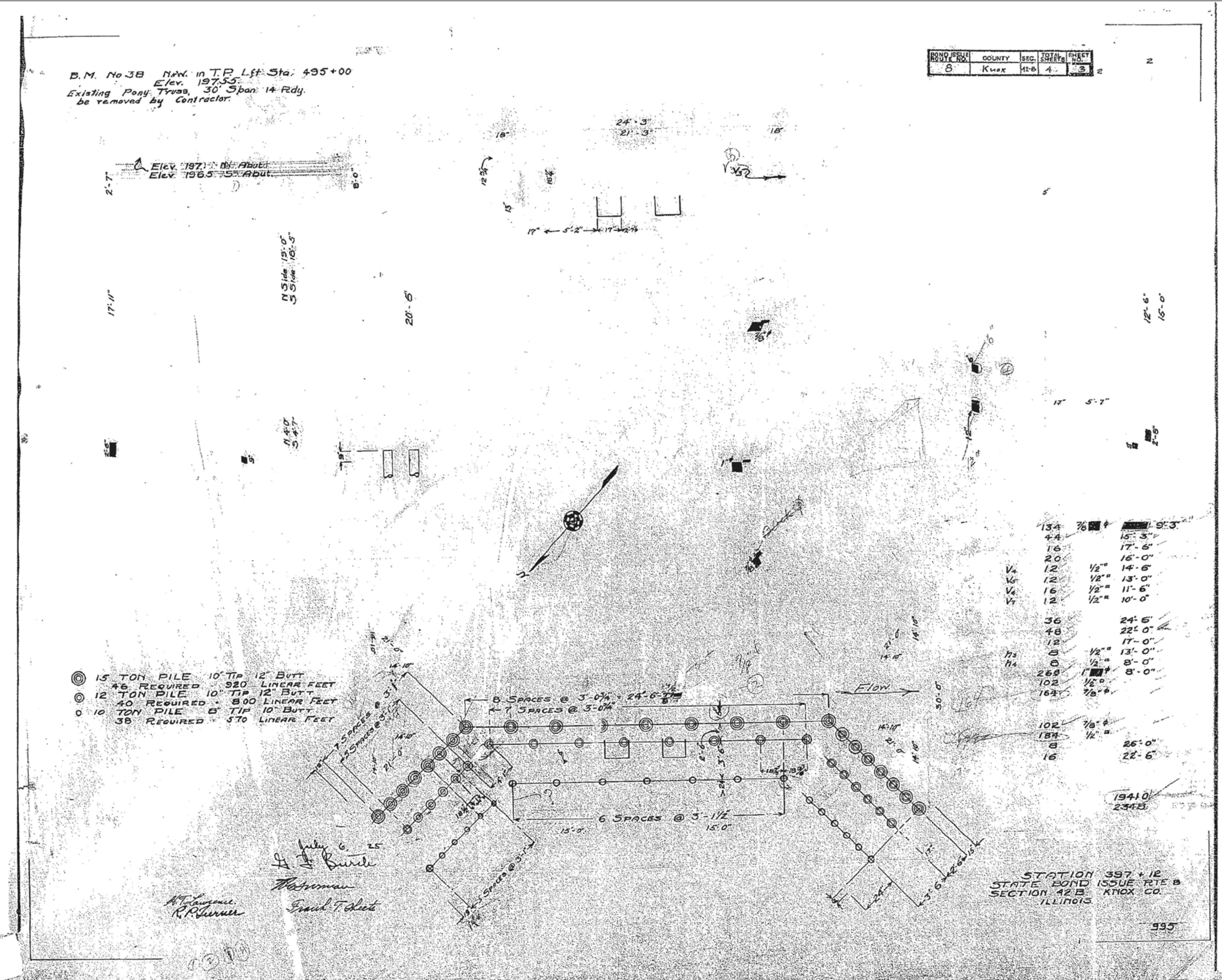
OATES ASSOCIATES
Engineering + Architecture
ILLINOIS DESIGN FIRM LICENSE NO: 184.001115

USER NAME =	DESIGNED -	REVISED -
	CHECKED -	REVISED -
PLOT SCALE =	DRAWN -	REVISED -
PLOT DATE = 10/13/2015	CHECKED -	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

EXISTING BRIDGE PLANS
FOR INFORMATION ONLY
SHEET NO. 31 OF 32 SHEETS

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
626	42-(B,B-1)BR-1	KNOX	152	56
		CONTRACT NO. 68754		
	ILLINOIS FED. AID PROJECT			



USER NAME =	DESIGNED -	REVISED -	STATE OF ILLINOIS	EXISTING BRIDGE PLANS
	CHECKED -	REVISED -	DEPARTMENT OF TRANSPORTATION	FOR INFORMATION ONLY
PLOT SCALE =	DRAWN -	REVISED -		
PLOT DATE = 10/13/2015	CHECKED -	REVISED -		SHEET NO. 32 OF 32 SHEETS

OATES ASSOCIATES Engineering + Architecture
ILLINOIS DESIGN FIRM LICENSE NO: 184.001115

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
626	42-(B,B-1)BR-1	KNOX	152	57

CONTRACT NO. 68754
ILLINOIS FED. AID PROJECT

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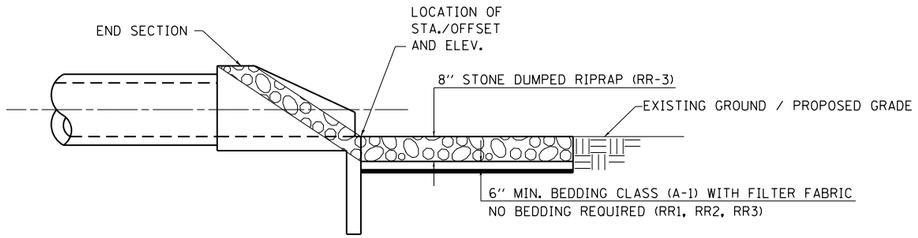
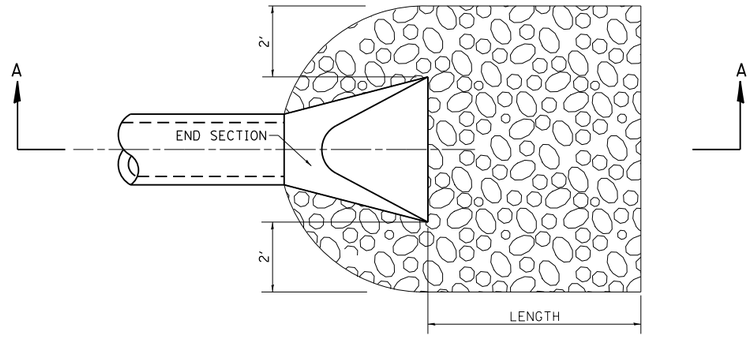


SECTION A–A

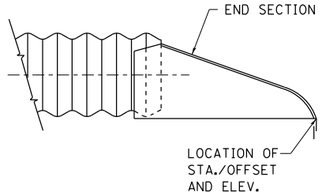


SEE CROSS SECTIONS
FOR LENGTH OF PROTECTION

PLAN

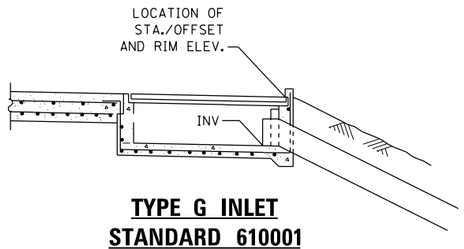
TYPICAL RIPRAP DETAIL

NOT TO SCALE



METAL END SECTION

NOT TO SCALE



TYPE G INLET
STANDARD 610001

NOT TO SCALE

FILE NAME = M:\P\10115\WD 3 - IL 97 over Haw Creek\Microstation\CADD Sheets\D468754-sht-details.dgn

OATES ASSOCIATES
Engineering + Architecture
ILLINOIS DESIGN FIRM LICENSE NO: 184.001115

USER NAME = matt.fields	DESIGNED -	REVISED -
	DRAWN -	REVISED -
PLOT SCALE = 100.0000 ' / in.	CHECKED -	REVISED -
PLOT DATE = 10/14/2015	DATE -	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

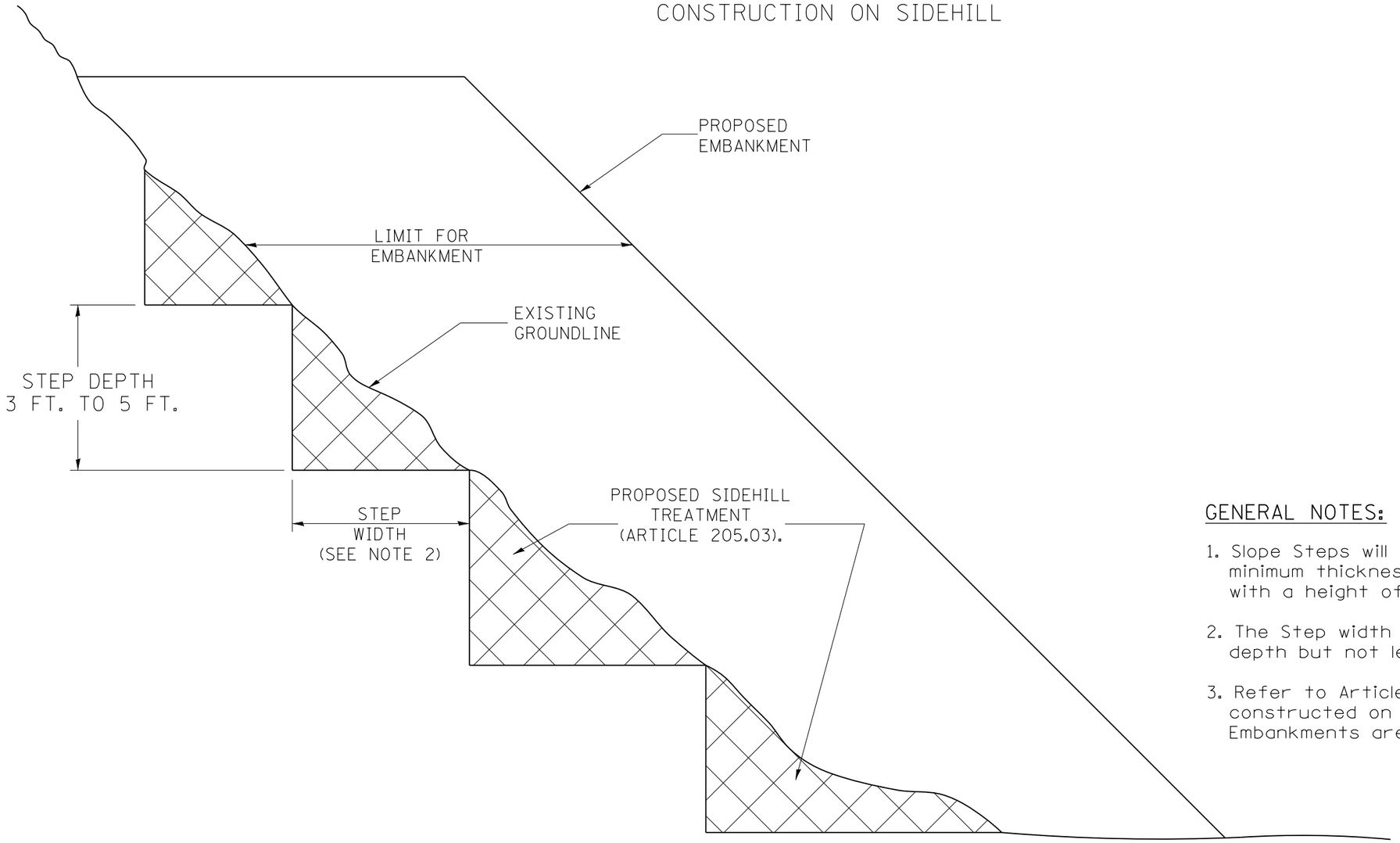
CONSTRUCTION DETAILS
IL 97 OVER HAW CREEK TRIBUTARY

SCALE: | SHEET 1 OF 1 SHEETS | STA. | TO STA.

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
626	42-(B,B-1) BR-1	KNOX	152	58
		CONTRACT NO. 68754		
	ILLINOIS	FED. AID PROJECT		

SLOPE STEPS DETAIL

TYPICAL CROSS-SECTION EMBANKMENT CONSTRUCTION ON SIDEHILL



GENERAL NOTES:

1. Slope Steps will be required for all 12'' minimum thickness ''sliver fills'' and on fills with a height of 10'(3.0m).

2. The Step width shall be twice the Step depth but not less than 6 feet.

3. Refer to Article 205.03 for Embankment to be constructed on Hillside or Slopes, or if existing Embankments are to be widened.

REPLACEMENT MATERIAL:

STANDARD EMBANKMENT (IN ACCORDANCE WITH 205 OF THE STANDARD SPECIFACATION).

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

1-1-97	RENUM. L-5.03, NEW REVISION BOX, REVISED TITLE	T.P.									
	BOX, REVISED GENERAL NOTES.										
10-16-06	REVISED TO 2007 SPEC.	M.A.									

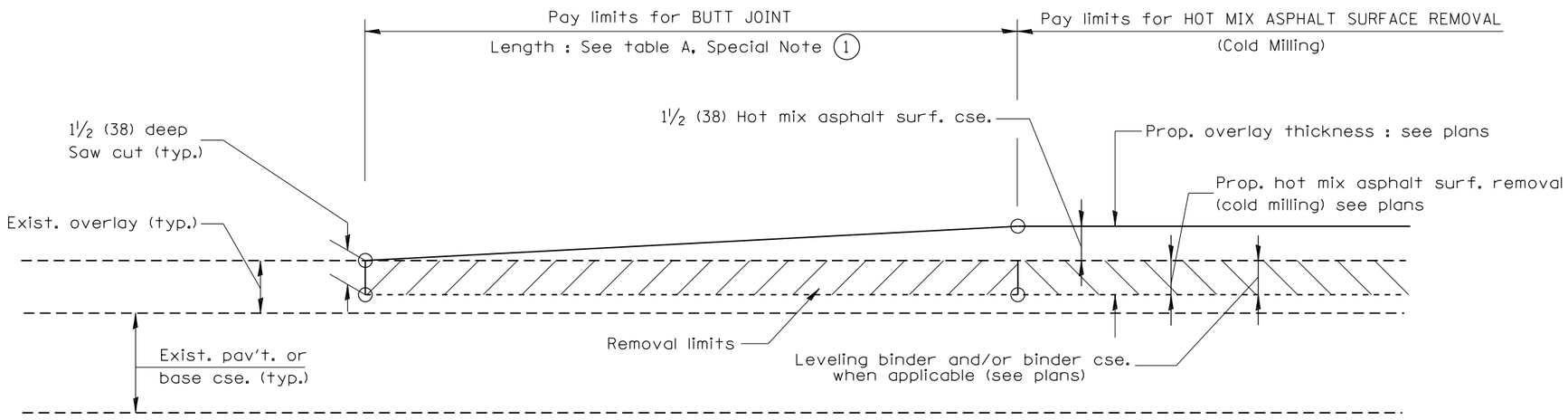
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

DISTRICT 4 STANDARDS
SLOPE STEPS DETAIL

NOT TO SCALE

CADD STD. 205001-D4

F.A.P RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
626	42-(B,B-1) BR-1	KNOX	152	59
		CONTRACT NO. 68754		
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		



CASE 1 : WITH HOT MIX ASPHALT SURFACE REMOVAL (COLD MILLING)

TABLE A
(LENGTHS AND TAPER RATES)

SPECIAL NOTE NUMBER	ELEMENT	MAINLINE INTERSTATES & 4-LANE EXPRESSWAYS	ALL OTHERS
(1)	LENGTH OF BUTT JOINT	60'(18.0 m)	30'(9.0 m)
(2)	PERMANENT TAPER RATE	1:480	1:240
(3)	TEMPORARY RAMP TAPER RATE	1:80	1:40
(4)	TEMPORARY RAMP LENGTH	10'(3.0 m)	5'(1.5 m)
(5)	LENGTH OF BUTT JOINT	10'(3.0 m)	10'(3.0 m)

GENERAL NOTES

1. The work shall be done in accordance with Article 406.08 and the Special Provision for Butt Joints.

2. The pavement surface to be removed may be either bituminous or P.C. concrete. The work shall be performed in accordance with Article 440.04 and the Special Provisions for Butt Joints.

3. The saw cut joints shall be primed just prior to the placing of bituminous material. The work will be in accordance with the applicable portions of Article 406.05.

(MODIFIED)
All dimensions are in inches (millimeters) unless otherwise noted.

01-01-97	RENUM. C-23.01, NEW REVISION BOX	T.P.					
04-01-97	CORRECTION TO DEPTH	J.A.					
09-15-05	REVISED DESIGNER NOTE	M.M.A.					
10-16-06	REVISED TO 2007 SPEC.	M.A.					

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

DISTRICT 4 STANDARDS
BUTT JOINTS

NOT TO SCALE

CADD STD. 406101-D4

F.A.P RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
626	42-(B,B-1) BR-1	KNOX	152	60
		CONTRACT NO. 68754		
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		

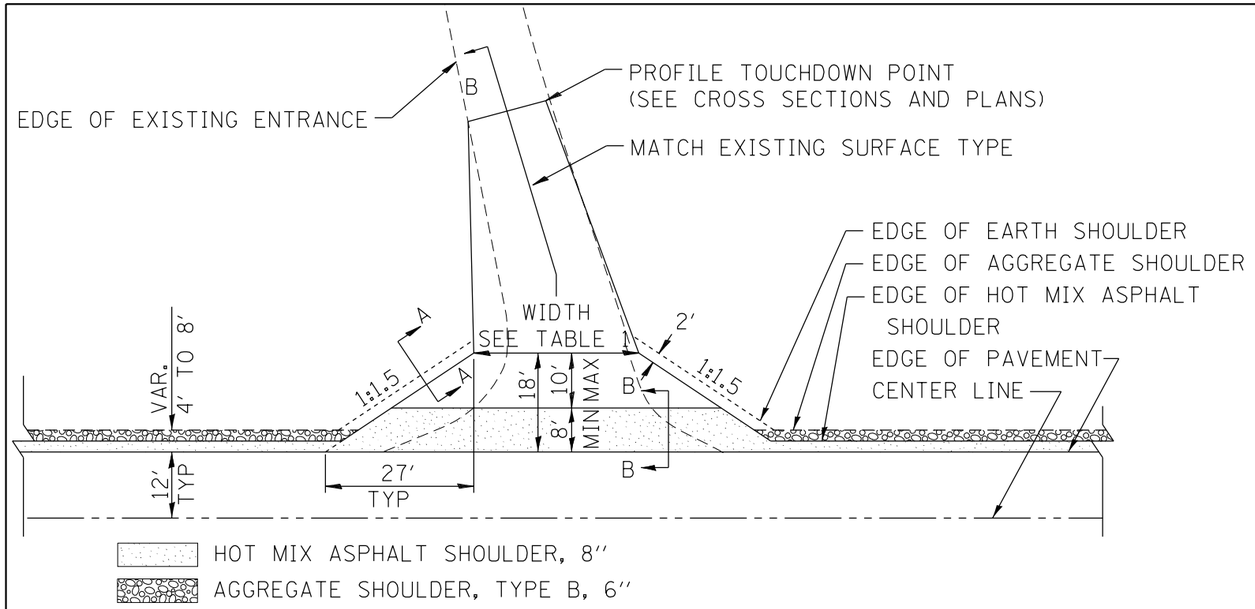
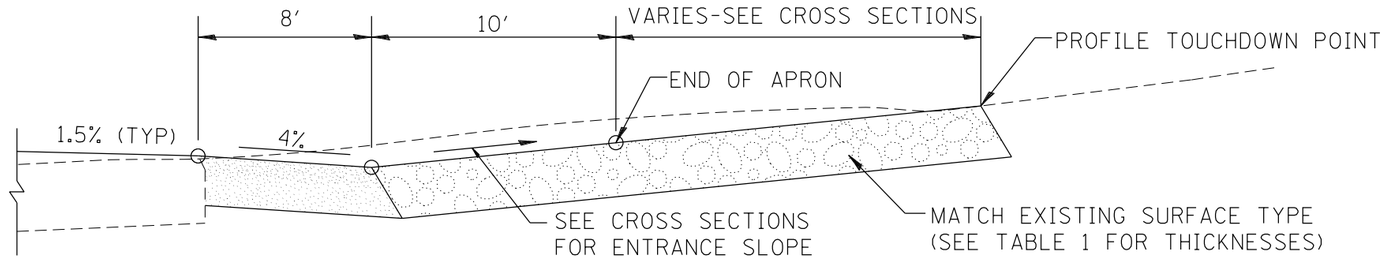


TABLE 1								
RURAL ENTRANCE DESIGN								
ELEMENT	NON-COMMERCIAL		NON-COMMERCIAL W/ LARGE FARM EQUIPMENT		COMMERCIAL			
					1-WAY OPERATION		2-WAY OPERATION	
WIDTH (W)	12'(3.6m) Min.	24'(7.2m) Max.	20' (6.1m)Max.	30' (9.0m)Max.	14'(4.3m) Min.	24'(7.2m) Max.	24'(7.2m) Min.	35'(10.7m) Max.
FLARE	1:1.5							
MAX. GRADE (G)	12%		12%		10%			
SURFACE TYPE								
INCIDENTAL HOT MIX ASPHALT SURFACING	6''		—		8''			
AGGREGATE SURFACE COURSE	6''		8''		8''			
PCC DRIVEWAY PAVEMENT	6''		—		7''			

PLAN

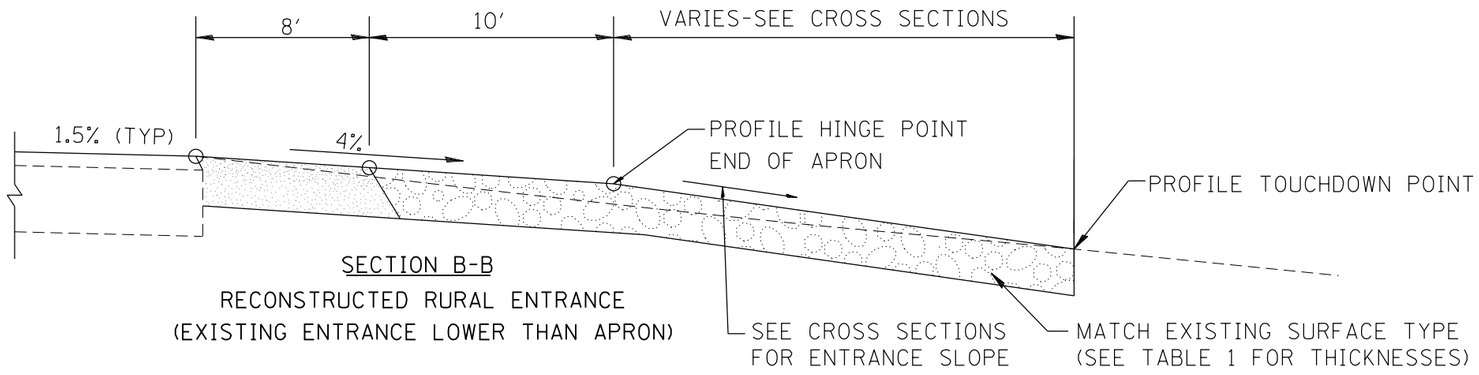
COMMERCIAL / FARM-RELATED ENTRANCE



SECTION B-B

RECONSTRUCTED RURAL ENTRANCE

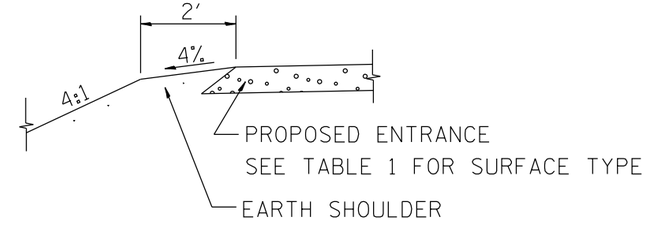
(EXISTING ENTRANCE HIGHER THAN APRON)



SECTION B-B

RECONSTRUCTED RURAL ENTRANCE

(EXISTING ENTRANCE LOWER THAN APRON)



SECTION A-A

SHOULDER TREATMENT FOR RURAL ENTRANCES

GENERAL NOTES

1. ENTRANCES SHALL SLOPE AWAY FROM THE PAVEMENT AT A RATE EQUAL TO THE SHOULDER SLOPE FOR A MINIMUM DISTANCE OF 8'.

2. A MINIMUM 8' PAVED SHOULDER SHALL BE CONSTRUCTED BETWEEN LOCATIONS WHERE THE RURAL ENTRANCE IS LESS THAN 50' FROM AN ADJACENT SIDEROAD, ENTRANCE OR MAILBOX TURNOUT.

3. A TAPER RATE OF 5:1 IS DESIRABLE WHEN TRANSITING FROM THE RURAL ENTRANCE WIDTH SHOWN IN TABLE 1, TO THE EXISTING ENTRANCE WIDTH.

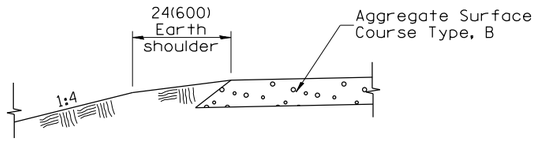
All dimensions are in inches (millimeters) unless otherwise noted.

01-01-97	RENUM. C-103.06. NEW REVISION BOX	T.P.	10-16-06	REVISED TO 2007 SPEC.	M.A.
07-01-97	REVISE DESIGNER NOTES	J.A.			
01-17-03	ADJUST DESIGN, CHANGE ENTRANCE	JATR			
09-15-05	RADIUS FOR FLARE	M.M.A.			

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

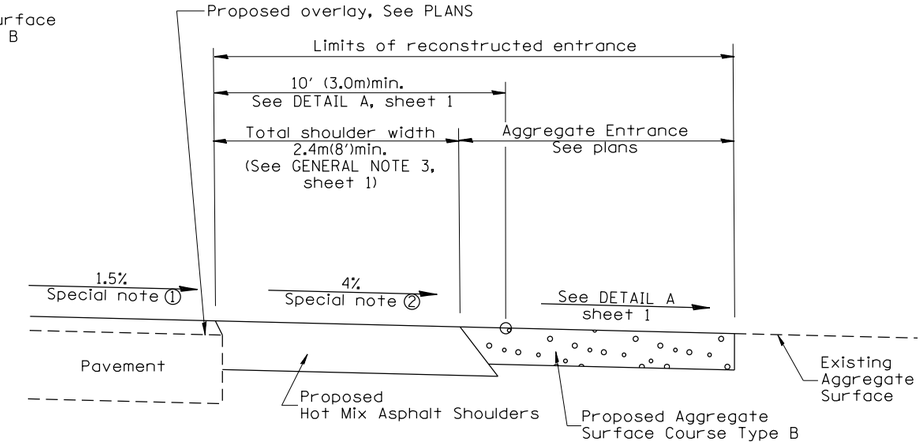
DISTRICT 4 STANDARDS
RURAL ENTRANCES FOR "3R" PROJECTS
SHT. 1 OF 2
NOT TO SCALE
CADD STD. 406301-D4

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
			152	61
		CONTRACT NO.		
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		



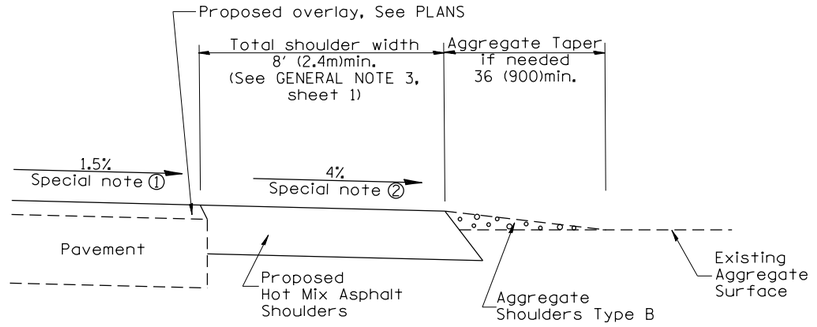
SECTION A-A

SHOULDER TREATMENT FOR AGGREGATE ENTRANCES



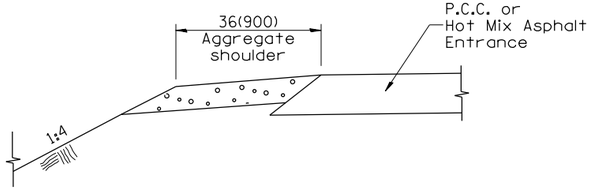
SECTION B-B

RECONSTRUCTED AGGREGATE ENTRANCE



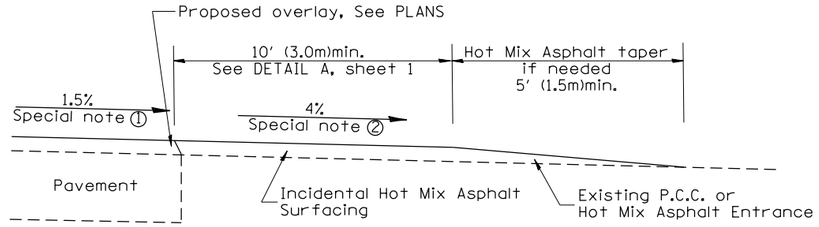
SECTION B-B

EXISTING AGGREGATE ENTRANCE



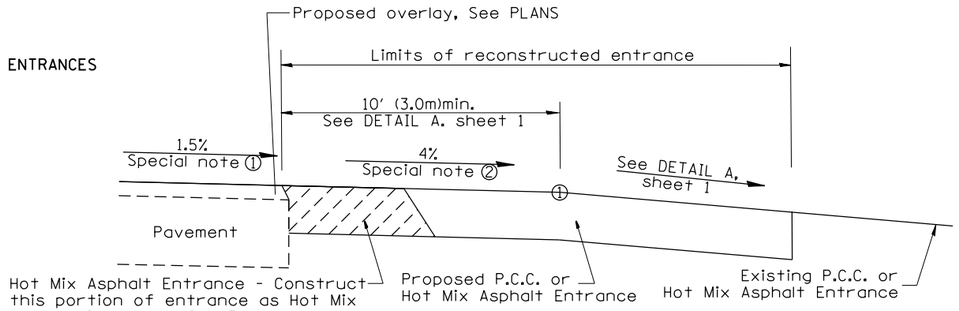
SECTION C-C

SHOULDER TREATMENT FOR P.C.C. OR HOT MIX ASPHALT ENTRANCES



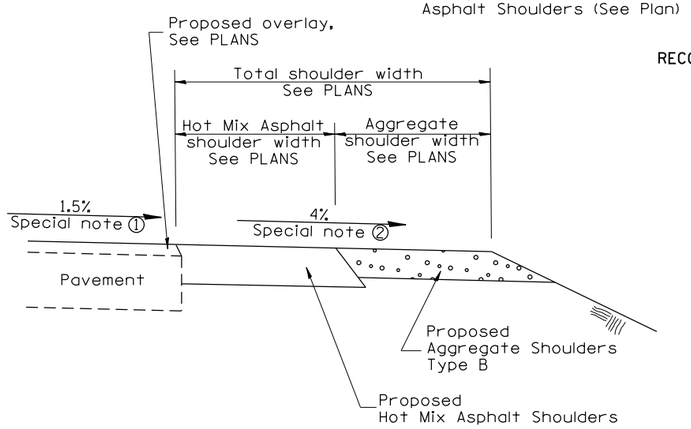
SECTION D-D

EXISTING P.C.C. OR HOT MIX ASPHALT ENTRANCE



SECTION D-D

RECONSTRUCTED P.C.C. OR HOT MIX ASPHALT ENTRANCE



SECTION E-E

MAINLINE SHOULDER TREATMENT

SPECIAL NOTES

(1) The mainline pavement cross-slope is 1.5% for tangent alignment. See PLANS for cross-slope on superelevated horizontal curves.

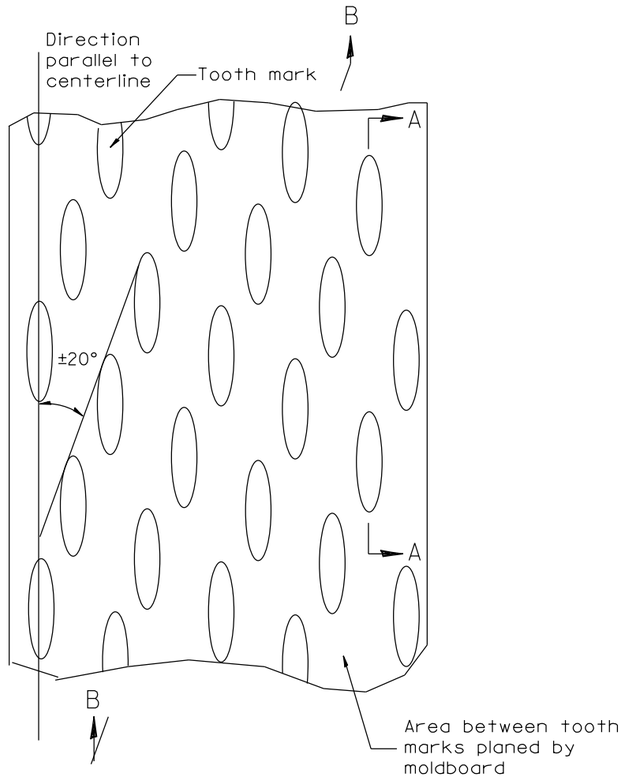
(2) The shoulder slope shall control the entrance profile for a distance of 10' (3.0m) minimum from the pavement edge. The shoulder cross-slope is 4% for tangent alignment. Through superelevated curves, the maximum pavement-shoulder breakover should not be greater than 10% for shoulders 6' (1.8m) and wider and 12% for shoulders 4' (1.2m) and less. Where 12' (366cm) paved shoulders are provided, the breakover should be at the edge of the paved shoulder rather than at the pavement edge.

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

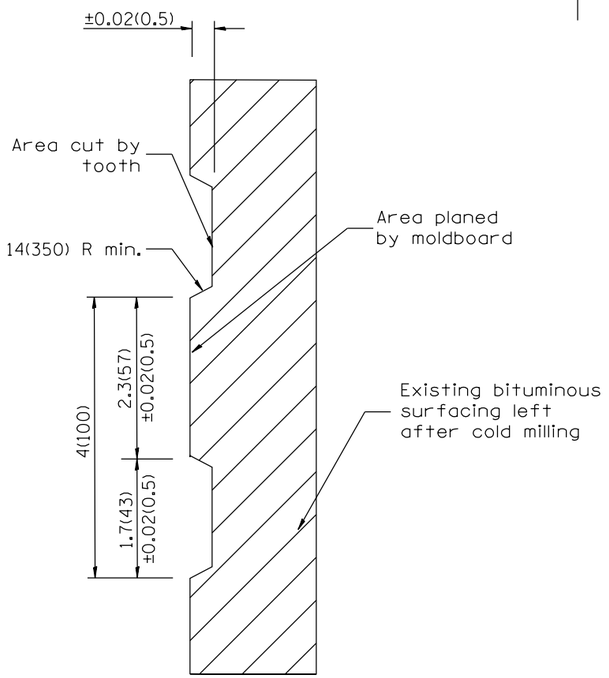
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

DISTRICT 4 STANDARDS
RURAL ENTRANCES FOR "3R" PROJECTS
SHT. 2 OF 2
NOT TO SCALE
CADD STD. 406301-D4

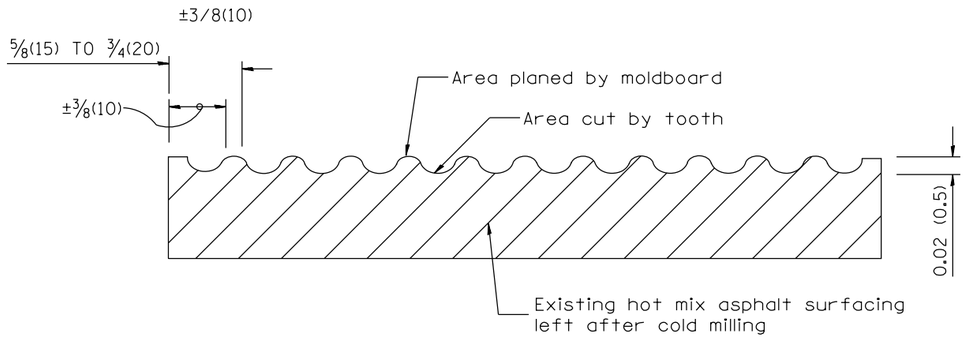
F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
			152	62
		CONTRACT NO.		
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		



PLAN



SECTION A-A



SECTION B-B PROJECTED
PERPENDICULAR TO CENTERLINE

General notes:

1. Coldmilling shall consist of two processes: Cutting with carbide teeth mounted on a rotating drum, and planing with a moldboard mounted immediately behind the cutting drum.
2. Other similar patterns will be acceptable if they consist of a smooth, flat, planed surface interspersed with a pattern of discontinuous longitudinal striations.

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

01-01-97	RENUM. C-104.01, NEW REVISION BOX	T.P.
04-20-98	REMOVED MILLING DETAIL FROM STANDARD	J.A.
09-08-98	CORRECT NOTE LEADER PLACEMENT	R.W.
10-16-06	REVISED TO 2007 SPEC.	M.A.

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

DISTRICT 4 STANDARDS
HOT MIX ASPHALT SURFACE REMOVAL (COLD MILLING)

NOT TO SCALE — CADD STD. 440001-D4

F.A.P RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
626	42-(B,B-1) BR-1	KNOX	152	63
		CONTRACT NO. 68754		
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		

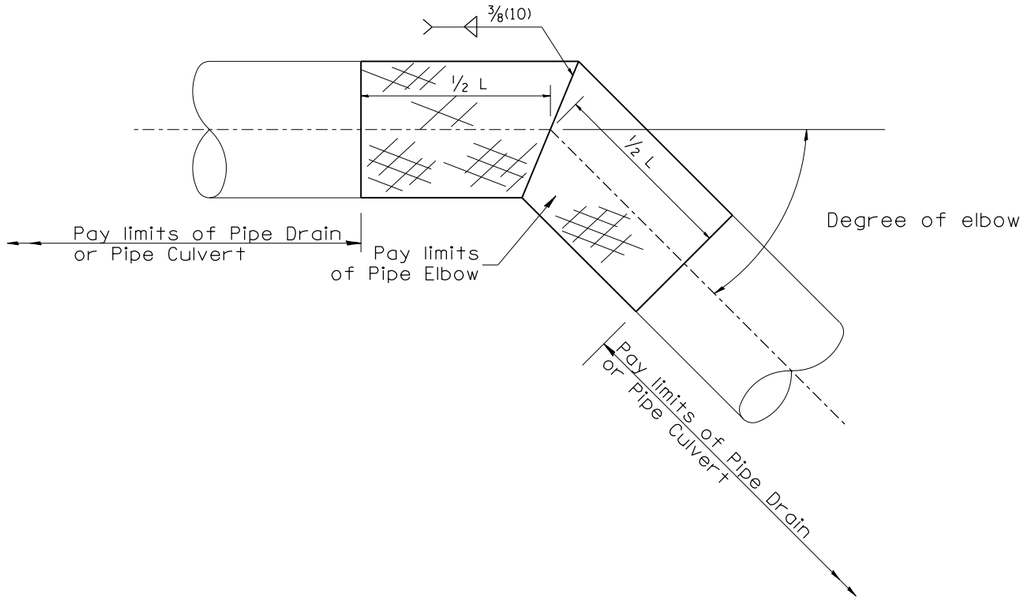
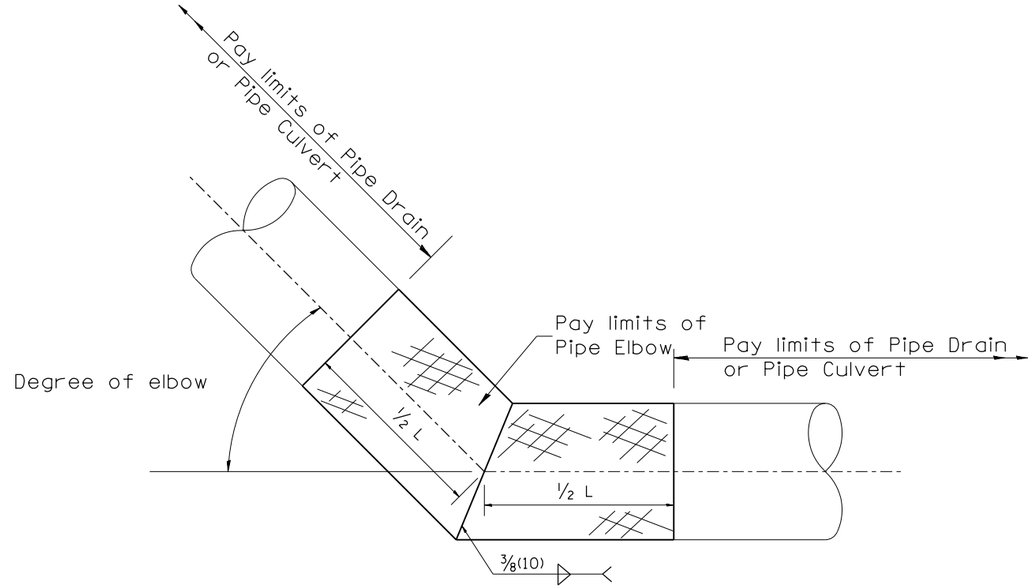


TABLE A		
ELBOW DESIGN CONTROLS		
PIPE DIAMETER	L = Pay limits of Pipe Elbow and minimum length of pipe required for fabrication	
	DEGREE OF ELBOW ≤ 45°	DEGREE OF ELBOW ≥ 46°
12(300)	24(600)	4'(1.22M)
15(375)	24(600)	4'(1.22M)
18(450)	24(600)	4'(1.22M)
21(525)	24(600)	4'(1.22M)
24(600)	4'(1.22M)	4'(1.22M)
30(750)	4'(1.22M)	6'(1.83M)
36(900)	4'(1.22M)	6'(1.83M)

TABLE B	
ELBOW DESIGN CONTROLS	
EARTH SLOPE (V:H)	DEGREE OF ELBOW *
1:6	9°
1:4	14°
1:3	18°
1:2	26°
1:1 1/2	33°

* Approximate - based upon 0.5% inlet and outlet flowlines.



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

01-01-97	RENUM. J-11.05, NEW REVISION BOX.	T.P.			
	REVISED TITLE BOX				
10-16-06	REVISED TO 2007 SPEC.	M.A.			

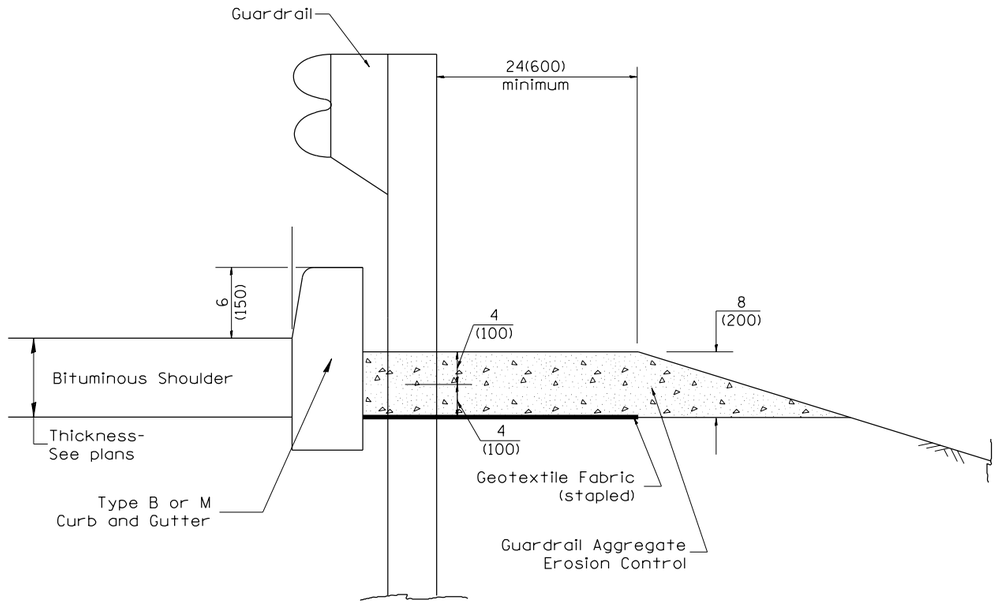
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

DISTRICT 4 STANDARDS
PIPE ELBOW

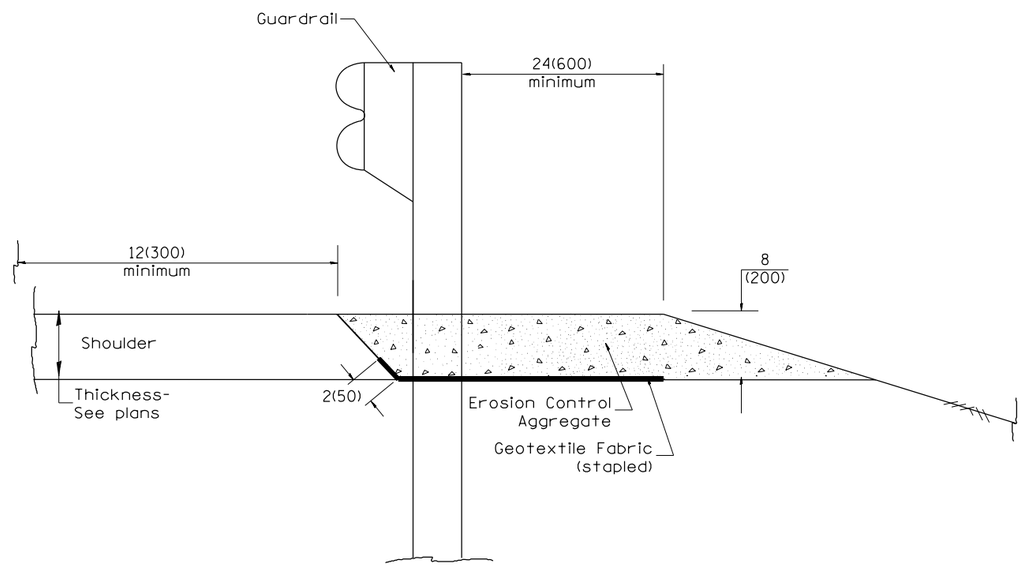
NOT TO SCALE

CADD STD. 601301-D4

F.A.P RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
626	42-(B,B-1) BR-1	KNOX	152	64
		CONTRACT NO. 68754		
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		



TYPICAL SECTION WITH EROSION CONTROL CURB



TYPICAL SECTION WITHOUT EROSION CONTROL CURB

GENERAL NOTES: GUARDRAIL AGGREGATE EROSION CONTROL

1. This work shall consist of grading as needed, furnishing and installing geotextile fabric and staples, and furnishing, placing and shaping crushed aggregate around and behind Steel Plate Beam Guardrail posts in accordance with Plan Details.

2. Before placing the aggregate and the Geotextile Fabric, weeds and grass shall be removed from the area to be covered.

3. After the area has been prepared, and in a dry condition, the Geotextile fabric shall be placed with a 12(300) minimum overlap. A knife cut for guardrail post installation is necessary.

4. The aggregate shall be deposited, compacted and shaped by either mechanical or hand methods, in a manner reasonably true to line and grade.

5. The Contractor shall have the option of placing the guardrail before or after the Geotextile Fabric and Aggregate are in place. If the guardrail is placed after the Geotextile Fabric and Aggregate, then any voids must be filled and the aggregate returned to line and grade.

6. Materials shall meet the following requirements:

   A. The crushed aggregate shall be CA1 gradation in accordance with Article 1004.01(c) of the Standard Specifications.

   B. The Geotextile Fabric shall be nonwoven fabric in accordance with Article 1080.02 of the Standard Specifications.

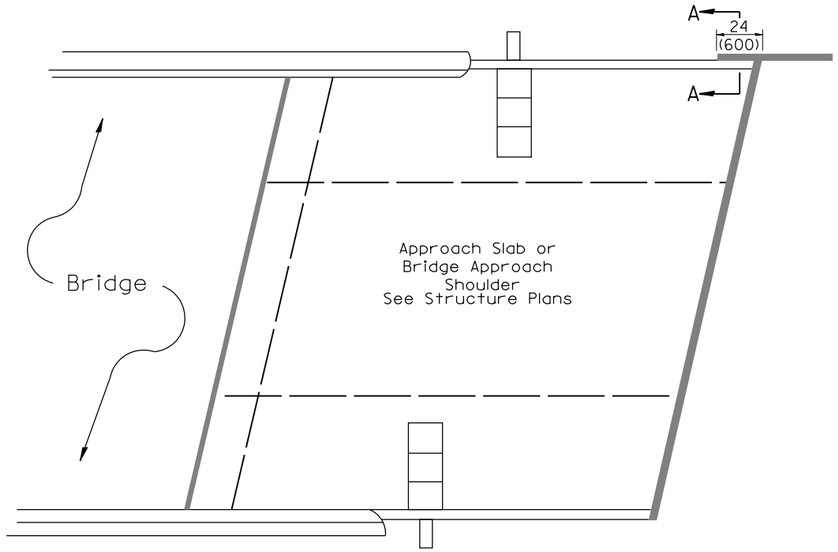
All dimensions are in inches (millimeters) unless otherwise noted.

01-01-97	RENUM. C-22.01, NEW REVISION BOX	T.P.					
03-01-97	CORRECT STD. NUMBERS IN NOTES PG. 2	J.A.					
11-03-00	CORRECTION TO NOTES	M.A.					
10-16-06	REVISED TO 2007 SPEC.	M.A.					

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

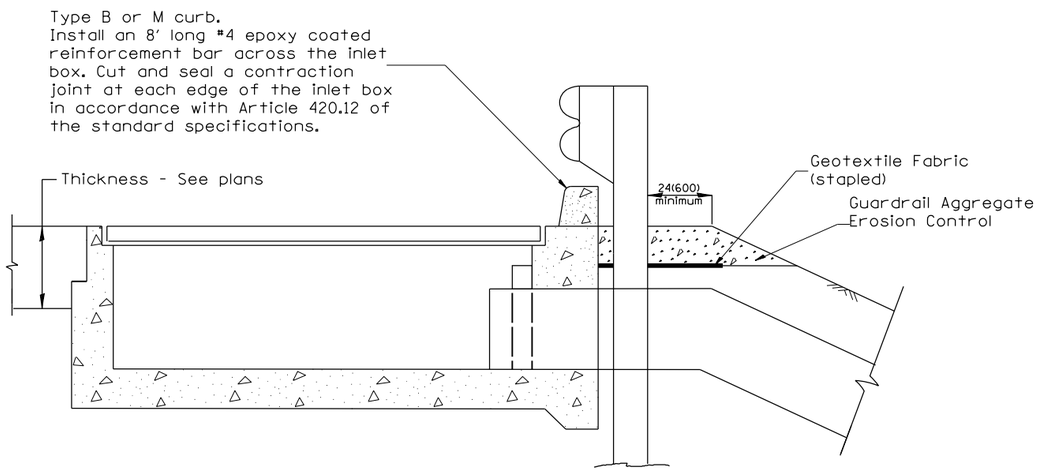
DISTRICT 4 STANDARDS
GUARDRAIL EROSION CONTROL TREATMENTS
SHT. 1 OF 2
NOT TO SCALE
CADD STD. 630101-D4

F.A.P RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
626	42-(B,B-1) BR-1	KNOX	152	65
		CONTRACT NO. 68754		
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		

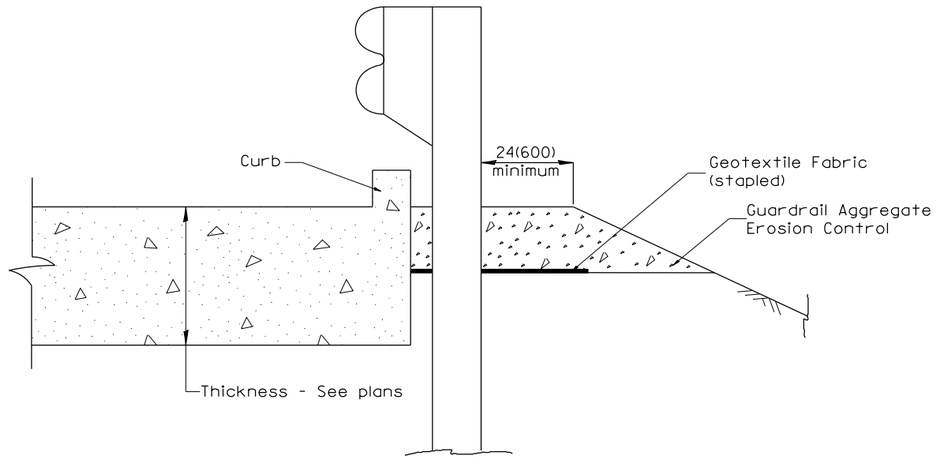


PLAN VIEW

APPROACH SLAB OR BRIDGE APPROACH SHOULDER
(STANDARD 609001 or 609006)



TYPICAL SECTION AT INLETS
TYPE E & F & G (STANDARD 610001)



SECTION A-A
TYPICAL SECTION WITH BRIDGE APPROACH CURB

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

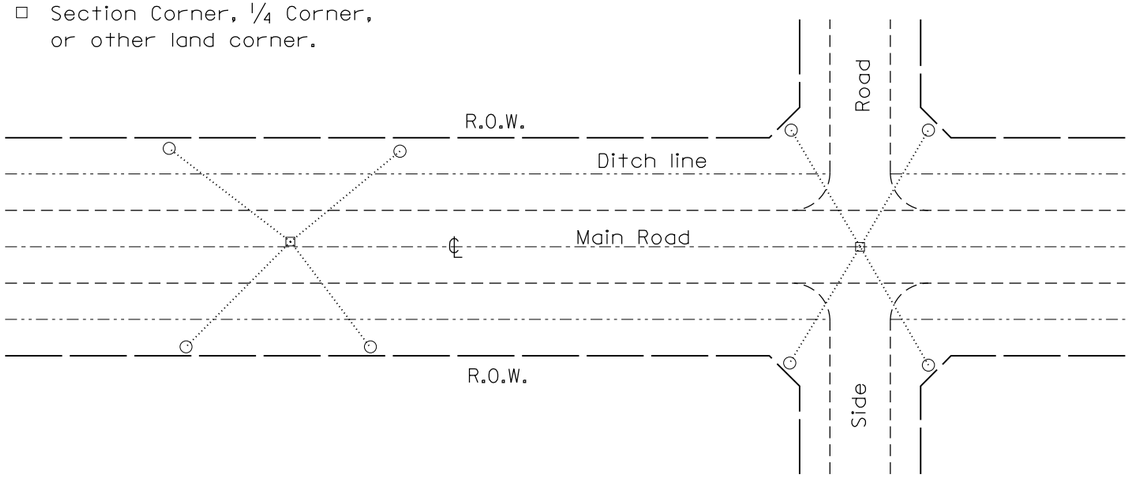
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

DISTRICT 4 STANDARDS
GUARDRAIL EROSION CONTROL TREATMENTS
SHT. 2 OF 2
NOT TO SCALE
CADD STD. 630101-D4

F.A.P RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
626	42-(B,B-1) BR-1	KNOX	152	66
		CONTRACT NO. 68754		
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		

PERMANENT SURVEY TIES

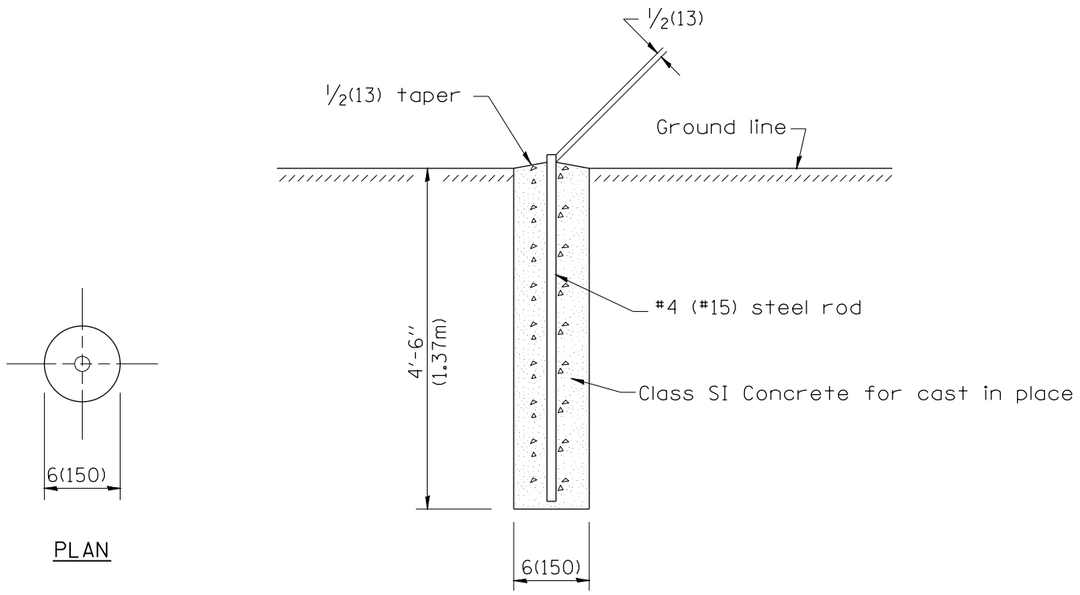
○ Permanent Survey Tie
□ Section Corner, 1/4 Corner, or other land corner.



TYPICAL APPLICATION

GENERAL NOTES

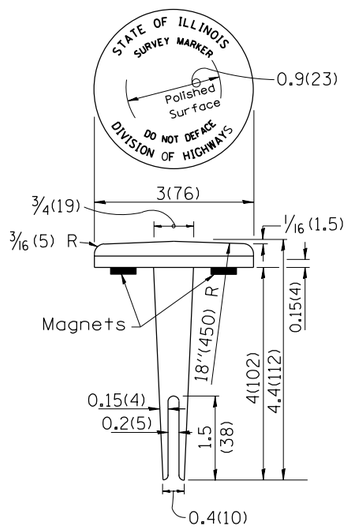
1. The marker shall be cast in place of Class SI Concrete.
2. Tie marker shall be installed after the final seeding has been completed unless otherwise specified by the Engineer.
3. The tie distances to the section corner shall be measured and recorded by the surveyor setting the PSM. All ties shall be turned over to the IDOT Chief of Surveys or Chief of Plats for recordation.
4. All documentation shall be performed by a PLS

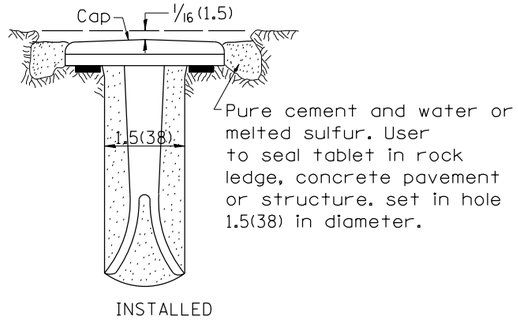


PLAN

SECTION

PERMANENT SURVEY MARKERS



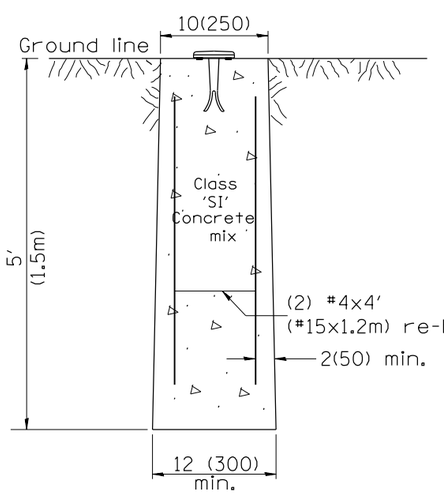


INSTALLED

TYPE I

GENERAL NOTES

1. All type II markers shall be cast in place, and precast markers will not be allowed.
2. Two permanent magnets, each having a diameter of 3/4 (19) and a thickness of 1/4 (6), or equivalent, shall be attached to the underside of the tablet with an approved epoxy bonding agent.
3. The location of the markers shall be in accordance with the plans in general, the markers will be placed at the P.T.'s, P.C.'s, and P.I.'s llocated within the R.O.W. of horizontal curves and spaces along the tangents in a way that a minimum of two markers are always inter-visible, and not to exceed 1000' (300m).
4. The markers shall be placed under the direction of the Engineer and shall be installed in a workmanlike manner in order that there will be no further settlement or horizontal shifting. The monuments shall be placed in a way that the survey point will fall within the portion of the plaque provided for that purpose.
5. The project designation, the centerline station, the survey point, and the elevation shall be permanently marked by the use of metal dies after marker has been installed.



MARKER CAST IN PLACE
TYPE II

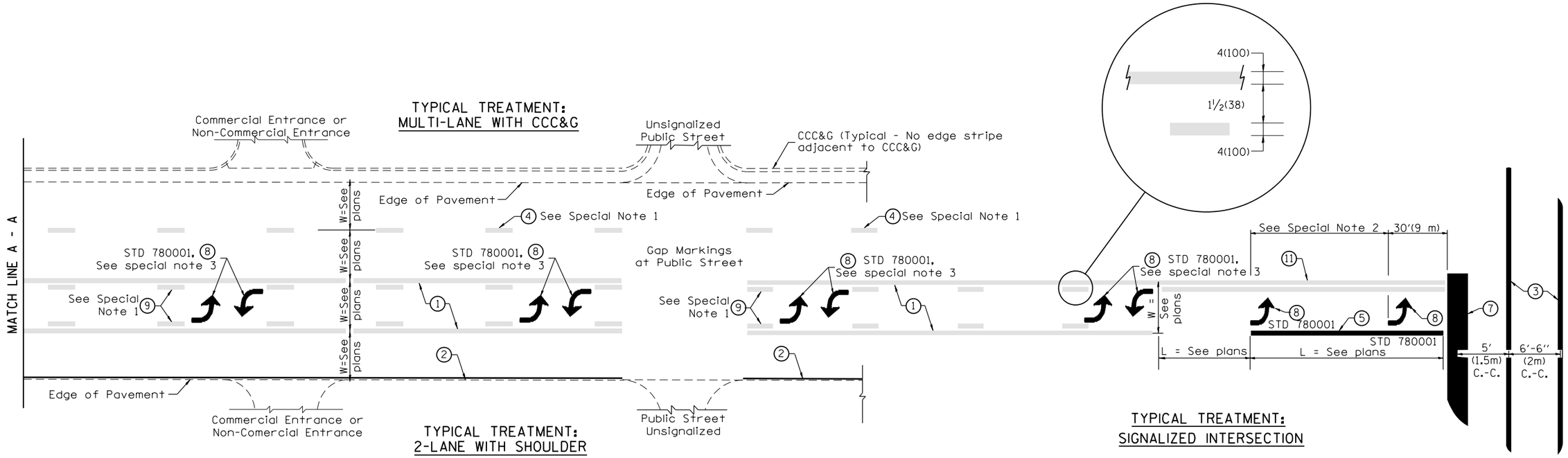
All dimensions are in inches (millimeters) unless otherwise noted.

01-01-97	RENUM. D-3.01, NEW REVISION BOX, REVISED	T.P.	10-16-06	REVISED TO 2007 SPEC.	M.A.
	TITLE BOX, ADD DESIGNER NOTE		01-04-11	REVISED FOR CORRECTIONS	R.D.
07-07-98	ADD DESIGNER NOTE	J.A.			
05-24-06	REMOVED GEN. NOTE UNDER TIES	M.A.			

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

DISTRICT 4 STANDARDS
PERMANENT SURVEY TIE & PERMANENT SURVEY MARKERS TY.I – TY.II
NOT TO SCALE — CADD STD. 667101-D4

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
626	42-(B,B-1) BR-1	KNOX	152	67
		CONTRACT NO. 68754		
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		

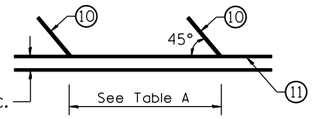


FLUSH PAVED MEDIAN: TWO-WAY LEFT TURN LANE WITH ONE-WAY LEFT TURN LANE AT SIGNALIZED INTERSECTION

TYPICAL PAVEMENT MARKING LEGEND

(Note: This is a District Standard Legend. Some elements may not apply to specific project.)

1. 4(100) Solid (Yellow)
2. 4(100) Solid (White)
3. 2-6(150) Crosswalk @ 6'-6" (2m)min C.-C. (White)
   2-8(200) Crosswalk @ 6'-6" (2m)min C.-C. (White) (When traffic signals are present.)
4. 6(150) Skip-Dash (White) — 10' (3.05m) / 30' (9.14m) / 10' (3.05m) (See Special Note 1)
5. 8(200) Solid (White)
6. 12(300) Diagonal (White) (Item 6 is shown on Std. 780001)
7. 24(600) Stop Bar (White)
8. Letters & Arrows — 33' (10m) (See Std. 780001 and Special Notes 2 & 3)
9. 4(100) Skip-Dash (Yellow) — 10' (3.05m) / 30' (9.14m) / 10' (3.05m) (See Special Note 1)
10. 12(300) Diagonal (Yellow) (See Table A)
11. 4(100) Double Solid (Yellow)



SPECIAL NOTES

1. Skip-Dash markings will be centered between both ends of city blocks and shall be placed in alignment transversly across the pavement.
2. The following shall apply to arrows located in one-way left turn lanes:
   A. A minimum of two (2) arrows is required.
   B. The maximum spacing between arrows is 80' (24 m).
   C. Arrows shall be evenly spaced if three (3) or more are required.
3. The following shall apply to arrow pairs located in two-way left turn lanes:
   A. A minimum of two (2) arrow pairs is required.
   B. The maximum spacing between arrow pairs is 200' (61 m).
   C. Arrow pairs shall be evenly spaced if three (3) or more are required.
   D. The spacing between Bi Directional Left Turn Arrows is 33' (10 m).

GENERAL NOTES

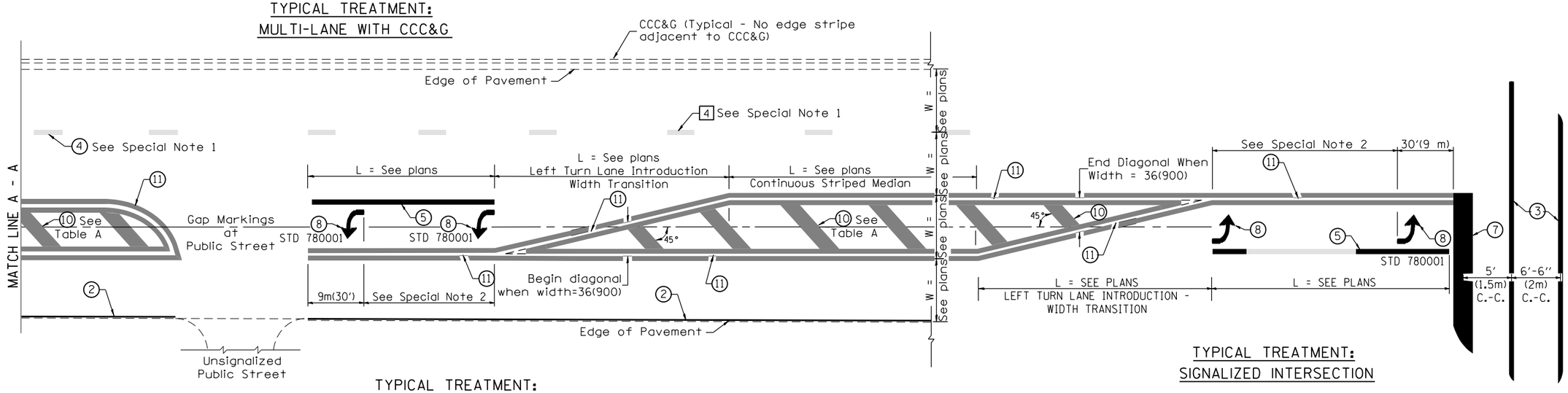
1. Refer to State Standard 780001 for additional Pavement Markings including letters & arrows.
2. See Plans for Pavement Markings adjacent to curbed islands and medians, and through lane reductions.

01-01-97	RENUM. F-8.03, NEW REVISION BOX	T.P.	10-16-06	REVISED TO 2007 SPEC.	
02-07-97	ADD BI DIRECTIONAL DIMENSION	J.A.			
10-97	CORRECT BI DIRECTIONAL DIMENSION	J.A.			
08-02	ADD CROSSWALK DMNS. WITH T.S.	M.A.			

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

DISTRICT 4 STANDARDS
TYPICAL PAVEMENT MARKINGS
NOT TO SCALE
SHT. 1 OF 2
CADD STD. 780001-D4

F.A.P RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
626	42-(B,B-1) BR-1	KNOX	152	68
		CONTRACT NO. 68754		
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		



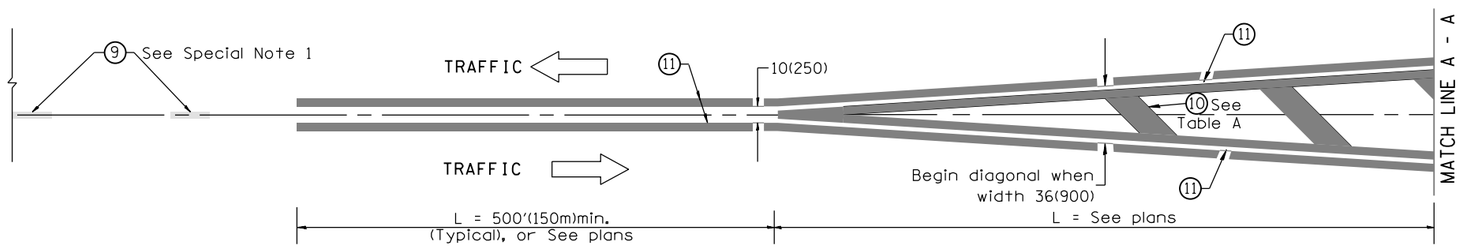
TYPICAL MEDIAN TRANSITIONS

FLUSH PAVED MEDIAN: RESTRICTED LEFT TURN LANE

TABLE A

RECOMMENDED SPACING BETWEEN DIAGONAL LINES

SPEED LIMIT RANGE	CONTINUOUS	INTERSECTION CHANNELIZATION (Includes Width Transitions for Median and Left Turn Lane Introductions)
Less Than 30 mph (50 km/h)	50' (15m)	15' (5m)
30 - 45 mph (50 - 70 km/h)	75' (23m)	20' (6m)
Over 45 mph (70 km/h)	150' (46m)	30' (9m)



MEDIAN INTRODUCTION - WIDTH TRANSITIONS

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

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

NOT TO SCALE

DISTRICT 4 STANDARDS
TYPICAL PAVEMENT MARKINGS

SHT. 2 OF 2
CADD STD. 780001-D4

F.A.P RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
626	42-(B,B-1) BR-1	KNOX	152	69
		CONTRACT NO. 68754		
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		

150 140 130 120 110 100 90 80 70 60 50 40 30 20 10 0 10 20 30 40 50 60 70 80 90 100 110 120 130 140 150

695
690
685
680

685.68

393+00.00

700
695
690
685

688.08

392+50.00

695
690

392+00.00

SCALE
VERT. 1"=5'
HORZ. 1"=10'

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

BY	DATE

ORIGINAL SURVEY	NOTE BOOK	NO.
SURVEYED		
PLOTTED		
TEMPLATE		
AREAS		
AREAS CHECKED		

BY	DATE

FILE NAME = H:\P\10115\WO 3 - IL 97 over Haw Creek\Microstation\CADD Sheets\D468754-sht-xsshts.dgn

OATES ASSOCIATES
Engineering + Architecture
ILLINOIS DESIGN FIRM LICENSE NO: 184.001115

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	DRAWN -	REVISED -
PLOT SCALE = 20.0000 ' / in.	CHECKED -	REVISED -
PLOT DATE = 10/14/2015	DATE -	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

CROSS SECTIONS
IL 97 OVER HAW CREEK TRIBUTARY

SCALE: | SHEET 1 OF 8 SHEETS | STA. 392+00.00 | TO STA. 393+00.00

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
626	42-(B,B-1)BR-1	KNOX	152	70
		CONTRACT NO.		
		ILLINOIS	FED. AID PROJECT	

150 140 130 120 110 100 90 80 70 60 50 40 30 20 10 0 10 20 30 40 50 60 70 80 90 100 110 120 130 140 150

685 680 675 670

EXISTING ROW

1.50% 678.22 678.27 1.50%

EXISTING ROW

STAGE 2
CUT = 0
FILL = 0
TOPSOIL = 0

STAGE 1
CUT = 0
FILL = 0
TOPSOIL = 0

394 + 50.00

690 685 680 675

EXISTING ROW

1.50% 680.74 680.74 1.50%

EXISTING ROW

STAGE 2
CUT = 0
FILL = 0
TOPSOIL = 0

STAGE 1
CUT = 0
FILL = 0
TOPSOIL = 0

394 + 00.00

695 690 685 680

EXISTING ROW

1.50% 683.22 683.22 1.50%

EXISTING ROW

STAGE 2
CUT = 0
FILL = 0
TOPSOIL = 0

STAGE 1
CUT = 0
FILL = 0
TOPSOIL = 0

393 + 50.00

SCALE
VERT. 1"=5'
HORZ. 1"=10'

150 140 130 120 110 100 90 80 70 60 50 40 30 20 10 0 10 20 30 40 50 60 70 80 90 100 110 120 130 140 150

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

BY	DATE

ORIGINAL SURVEY	NOTE BOOK	NO.
SURVEYED		
PLOTTED		
TEMPLATE		
AREAS		
AREAS CHECKED		

BY	DATE

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ILLINOIS DESIGN FIRM LICENSE NO: 184.001115

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	DRAWN -	REVISED -
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PLOT DATE = 10/14/2015	DATE -	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

CROSS SECTIONS
IL 97 OVER HAW CREEK TRIBUTARY

SCALE: | SHEET 2 OF 8 SHEETS | STA. 393+50.00 TO STA. 394+50.00

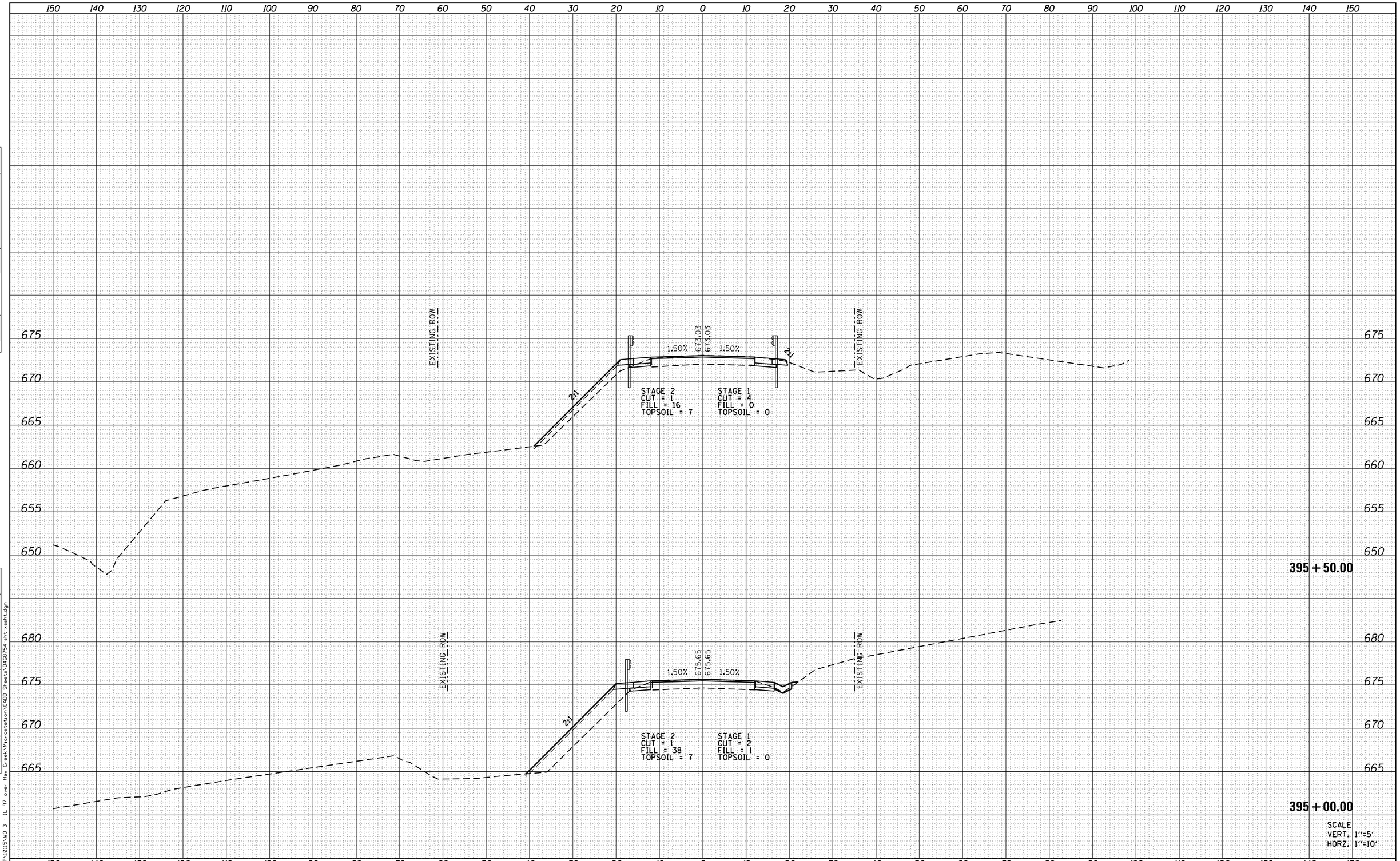
F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
626	42-(B,B-1)BR-1	KNOX	152	71
		CONTRACT NO.		
		ILLINOIS FED. AID PROJECT		

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

BY	DATE

ORIGINAL SURVEY	NOTE BOOK	NO.
SURVEYED		
PLOTTED		
TEMPLATE		
AREAS		
AREAS CHECKED		

BY	DATE



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ILLINOIS DESIGN FIRM LICENSE NO: 184.001115

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	DRAWN -	REVISED -
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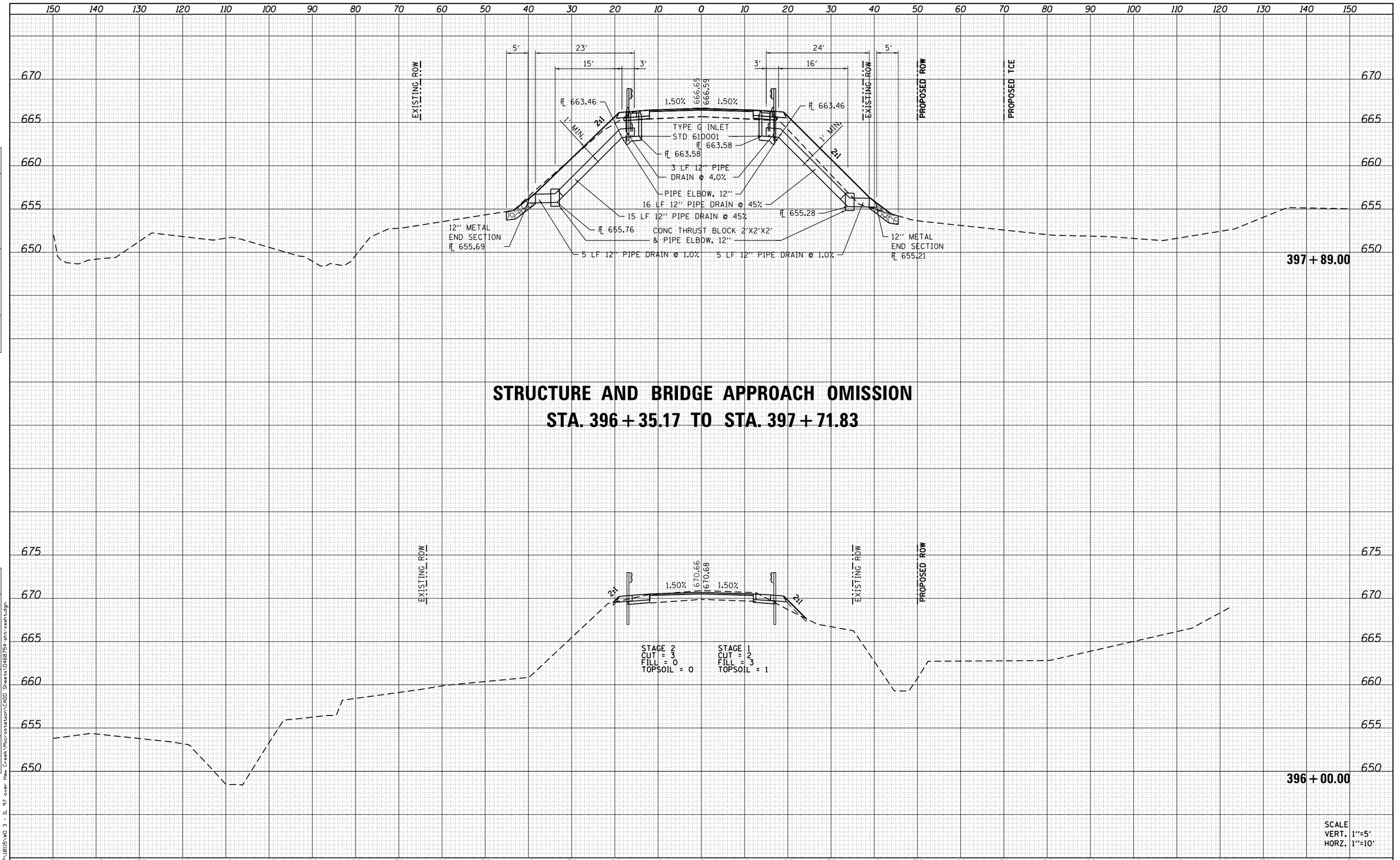
PLOT DATE = 10/14/2015	DATE -	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

CROSS SECTIONS
IL 97 OVER HAW CREEK TRIBUTARY

SCALE: | SHEET 3 OF 8 SHEETS | STA. 395+00.00 TO STA. 395+50.00

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
626	42-(B,B-1)BR-1	KNOX	152	72
		CONTRACT NO.		
		ILLINOIS FED. AID PROJECT		



STRUCTURE AND BRIDGE APPROACH OMISSION
STA. 396 + 35.17 TO STA. 397 + 71.83

SCALE
VERT. 1"=5'
HORZ. 1"=10'

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

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

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ILLINOIS DESIGN FIRM LICENSE NO: 184.001115

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	DRAWN -	REVISED -
PLOT SCALE = 20.0000 ' / in.	CHECKED -	REVISED -
PLOT DATE = 10/14/2015	DATE -	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

CROSS SECTIONS
IL 97 OVER HAW CREEK TRIBUTARY

SCALE: | SHEET 4 OF 8 SHEETS | STA. 396+00.00 | TO STA. 397+80.00

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
626	42-(B,B-1)BR-1	KNOX	148	73
		CONTRACT NO.		
		ILLINOIS FED. AID PROJECT		

150 140 130 120 110 100 90 80 70 60 50 40 30 20 10 0 10 20 30 40 50 60 70 80 90 100 110 120 130 140 150

675
670
665
660
655

EXISTING ROW

2:1

667.62
667.73

1.50%

1.50%

2:1

EXISTING ROW

PROPOSED ROW

STAGE 2
CUT = 2
FILL = 0
TOPSOIL = 1

STAGE 1
CUT = 1
FILL = 8
TOPSOIL = 3

399 + 00.00

670
665
660
655

EXISTING ROW

2:1

666.89
666.89

1.50%

1.22%

2:1

EXISTING ROW

PROPOSED ROW

STAGE 2
CUT = 3
FILL = 0
TOPSOIL = 0

STAGE 1
CUT = 0
FILL = 30
TOPSOIL = 6

398 + 50.00

670
665
660
655

EXISTING ROW

2:1

666.62
666.58

1.50%

1.50%

2:1

EXISTING ROW

PROPOSED ROW

STAGE 2
CUT = 1
FILL = 0
TOPSOIL = 1

STAGE 1
CUT = 1
FILL = 26
TOPSOIL = 7

398 + 00.00

SCALE
VERT. 1"=5'
HORZ. 1"=10'

150 140 130 120 110 100 90 80 70 60 50 40 30 20 10 0 10 20 30 40 50 60 70 80 90 100 110 120 130 140 150

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

BY	DATE

ORIGINAL SURVEY	NOTE BOOK	NO.
	SURVEYED	
	PLOTTED	
	TEMPLATE	
	AREAS	
	AREAS CHECKED	

BY	DATE

FILE NAME = H:\P\10115\WO 3 - IL 97 over Haw Creek\Microstation\CADD Sheets\D1468754-sht-xssh1.dgn

OATES ASSOCIATES
Engineering + Architecture
ILLINOIS DESIGN FIRM LICENSE NO: 184.001115

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	DRAWN -	REVISED -
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STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

CROSS SECTIONS
IL 97 OVER HAW CREEK TRIBUTARY

SCALE: | SHEET 5 OF 8 SHEETS | STA. 398+00.00 | TO STA. 399+00.00

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
626	42-(B,B-1)BR-1	KNOX	152	74
		CONTRACT NO.		
		ILLINOIS FED. AID PROJECT		

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

150 140 130 120 110 100 90 80 70 60 50 40 30 20 10 0 10 20 30 40 50 60 70 80 90 100 110 120 130 140 150

690 685 680 675 670 665 660

EXISTING ROW

2:1 1.50% 670.78 670.95 1.50% 2:1

STAGE 2
CUT = 2
FILL = 1
TOPSOIL = 1

STAGE 1
CUT = 1
FILL = 6
TOPSOIL = 2

EXISTING ROW

400 + 00.00

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

680 675 670 665 660

EXISTING ROW

2:1 1.50% 668.99 669.10 1.50% 2:1

PROPOSED ROW

STAGE 2
CUT = 2
FILL = 0
TOPSOIL = 1

STAGE 1
CUT = 2
FILL = 1
TOPSOIL = 1

399 + 50.00

SCALE
VERT. 1"=5'
HORZ. 1"=10'

150 140 130 120 110 100 90 80 70 60 50 40 30 20 10 0 10 20 30 40 50 60 70 80 90 100 110 120 130 140 150

FILE NAME = H:\P\1015\WO 3 - IL 97 over Haw Creek\Microstation\CADD Sheets\D468754-sht-xsht.dgn

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ILLINOIS DESIGN FIRM LICENSE NO: 184.001115

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STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

CROSS SECTIONS
IL 97 OVER HAW CREEK TRIBUTARY

SCALE: | SHEET 6 OF 8 SHEETS | STA. 399+50.00 | TO STA. 400+00.00

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
626	42-(B,B-1)BR-1	KNOX	152	75
		CONTRACT NO.		
		ILLINOIS FED. AID PROJECT		

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

BY	DATE

ORIGINAL SURVEY	NOTE BOOK	NO.
SURVEYED		
PLOTTED		
TEMPLATE		
AREAS		
AREAS CHECKED		

BY	DATE

150 140 130 120 110 100 90 80 70 60 50 40 30 20 10 0 10 20 30 40 50 60 70 80 90 100 110 120 130 140 150

695
690
685
680
675
670

EXISTING ROW

673.31 673.31

1.50% 1.50% 4.5%

EXISTING ROW

400 + 61.00

695
690
685
680
675
670

EXISTING ROW

672.80 672.80

1.50% 1.50% 3.5%

EXISTING ROW

400 + 50.00

STAGE 2
CUT = 0
FILL = 0
TOPSOIL = 0

STAGE 1
CUT = 0
FILL = 0
TOPSOIL = 0

SCALE
VERT. 1"=5'
HORZ. 1"=10'

150 140 130 120 110 100 90 80 70 60 50 40 30 20 10 0 10 20 30 40 50 60 70 80 90 100 110 120 130 140 150

FILE NAME = H:\P\10115\WO 3 - IL 97 over Haw Creek\Microstation\CADD Sheets\D4687754-sht-xsaht.dgn

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PLOT DATE = 10/14/2015	DATE -	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

CROSS SECTIONS
IL 97 OVER HAW CREEK TRIBUTARY

SCALE: | SHEET 7 OF 8 SHEETS | STA. 400+50.00 | TO STA. 400+61.00

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
626	42-(B,B-1)BR-1	KNOX	152	76
		CONTRACT NO.		
	ILLINOIS FED. AID PROJECT			

150 140 130 120 110 100 90 80 70 60 50 40 30 20 10 0 10 20 30 40 50 60 70 80 90 100 110 120 130 140 150

690
685
680
675

680.13

402 + 00.00

690
685
680
675

677.60

401 + 50.00

695
690
685
680
675
670

675.12

401 + 00.00

SCALE
VERT. 1"=5'
HORZ. 1"=10'

150 140 130 120 110 100 90 80 70 60 50 40 30 20 10 0 10 20 30 40 50 60 70 80 90 100 110 120 130 140 150

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

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

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PLOT DATE = 10/14/2015	DATE -	REVISED -

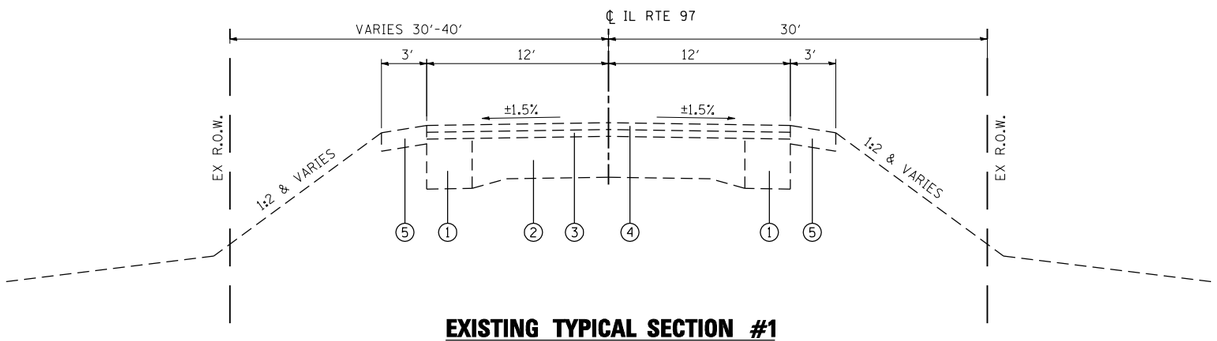
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

CROSS SECTIONS
IL 97 OVER HAW CREEK TRIBUTARY

SCALE: | SHEET 8 OF 8 SHEETS | STA. 401+00.00 TO STA. 402+00.00

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
626	42-(B,B-1)BR-1	KNOX	152	77
		CONTRACT NO.		
		ILLINOIS FED. AID PROJECT		

(EX) STRUCTURE AND BRIDGE APPROACH PAVEMENT OMISSION
STA. 536+70.99 TO STA. 537+48.93

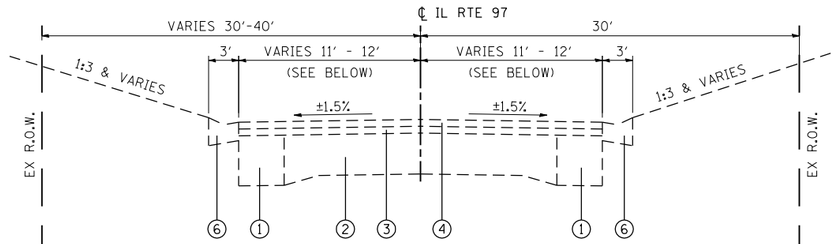


EXISTING TYPICAL SECTION #1

STA. 529+40 (RT) TO STA. 540+93.53 (RT)
STA. 532+64.20 (LT) TO STA. 540+94.08 (LT)

LEGEND

1. EXISTING BITUMINOUS BASE COURSE WIDENING
2. EXISTING PCC PAVEMENT
3. EXISTING BITUMINOUS OVERLAY
4. EXISTING BITUMINOUS SURFACE COURSE
5. EXISTING AGGREGATE SHOULDERS
6. EXISTING CONCRETE GUTTER
7. PROPOSED HMA SURFACE COURSE, MIX "D", N50, 1 1/2 "
8. PROPOSED HMA SURFACE REMOVAL, 1 1/2 "
9. PROPOSED POLYMERIZED BITUMINOUS MATERIALS (PRIME COAT)
10. PROPOSED TEMPORARY BASE COURSE WIDENING, 8" (SEE STAGING TYPICAL SECTIONS)
11. PROPOSED SUBBASE GRANULAR MATERIAL, TYPE B 4"
12. PROPOSED GUARDRAIL AGGREGATE EROSION CONTROL, 8" (NOTE 1)
13. PROPOSED TOPSOIL FURNISH AND PLACE, 4"
14. PROPOSED HMA BINDER COURSE, IL-9.5, N50, VAR DP (NOTE 2)
15. PROPOSED HMA SHOULDERS, VD
16. PROPOSED HMA SHOULDERS, 1-1/2"
17. PROPOSED EMBANKMENT
18. PROPOSED EPOXY PAVEMENT MARKING LINE



EXISTING TYPICAL SECTION #2

STA. 529+40.00 (LT) TO STA. 532+64.20 (LT) 12' LANES
STA. 540+93.53 (RT) TO STA. 544+15.00 (RT) 11' LANES
STA 540+94.08 (LT) TO STA. 544+15.00 (LT) 11' LANES

Coombe-Bloxdorf P.C.
-CIVIL ENGINEERS-
-STRUCTURAL ENGINEERS-
-LAND SURVEYORS-
Design Firm License No. 184-002703

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CB PROJECT NO 09024-8	PLOT SCALE = 100.0000 ' / IN.	CHECKED -	REVISED -
	PLOT DATE = 10/13/2015	DATE - / /	REVISED -

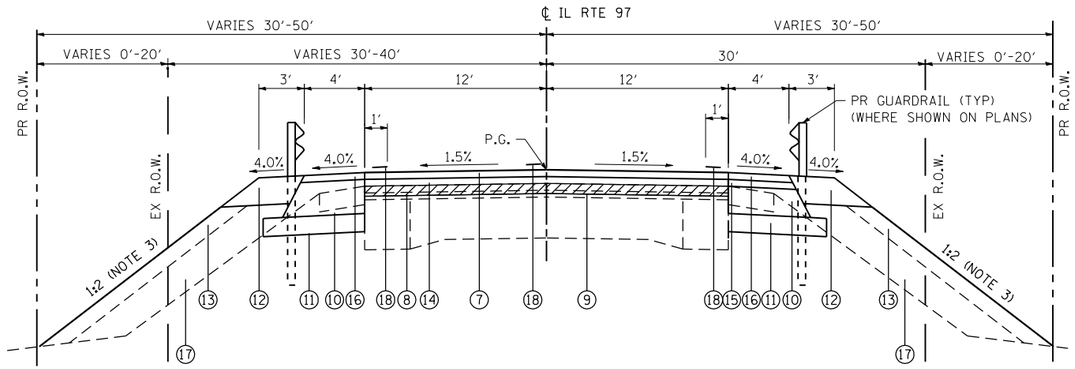
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

TYPICAL SECTIONS
LITTLE HAW CREEK

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

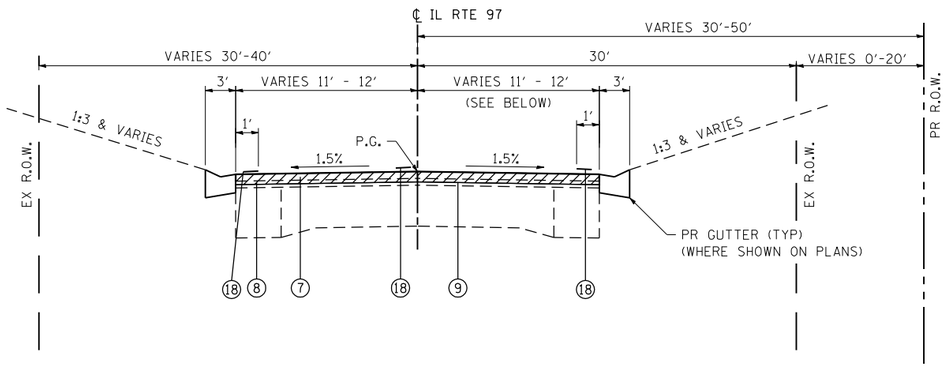
F.A.P RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
626	42-(B,B-1) BR-1	KNOX	152	78
		CONTRACT NO. 68754		
	ILLINOIS FED. AID PROJECT			

(PR) STRUCTURE AND BRIDGE APPROACH PAVEMENT OMISSION
STA. 536+38.33 TO STA. 537+73.67



PROPOSED TYPICAL SECTION #1

STA. 531+15.00 (RT) TO STA. 536+38.33 (RT)
STA. 532+72.87 (LT) TO STA. 536+38.33 (LT)
STA. 537+73.67 (RT) TO STA. 540+93.53 (RT)
STA. 537+73.67 (LT) TO STA 540+94.08 (LT)



PROPOSED TYPICAL SECTION #2

STA. 529+40.00 (RT) TO STA. 531+15.00 (RT) 12' LANES
STA. 529+40.00 (LT) TO STA. 532+72.87 (LT) 12' LANES
STA. 540+93.53 (RT) TO STA. 544+15.00 (RT) VARIES 11' - 12' LANES
STA. 540+94.08 (LT) TO STA. 544+15.00 (LT) VARIES 11' - 12' LANES

LEGEND

1. EXISTING BITUMINOUS BASE COURSE WIDENING
2. EXISTING PCC PAVEMENT
3. EXISTING BITUMINOUS OVERLAY
4. EXISTING BITUMINOUS SURFACE COURSE
5. EXISTING AGGREGATE SHOULDERS
6. EXISTING CONCRETE GUTTER
7. PROPOSED HMA SURFACE COURSE, MIX "D", N50, 1 1/2 "
8. PROPOSED HMA SURFACE REMOVAL, 1 1/2 "
9. PROPOSED POLYMERIZED BITUMINOUS MATERIALS (PRIME COAT)
10. PROPOSED TEMPORARY BASE COURSE WIDENING, 8" (SEE STAGING TYPICAL SECTIONS)
11. PROPOSED SUBBASE GRANULAR MATERIAL, TYPE B 4"
12. PROPOSED GUARDRAIL AGGREGATE EROSION CONTROL, 8" (NOTE 1)
13. PROPOSED TOPSOIL FURNISH AND PLACE, 4"
14. PROPOSED HMA BINDER COURSE, IL-9.5, N50, VAR DP (NOTE 2)
15. PROPOSED HMA SHOULDERS, VD (NOTE 2)
16. PROPOSED HMA SHOULDERS, 1-1/2"
17. PROPOSED EMBANKMENT
18. PROPOSED EPOXY PAVEMENT MARKING LINE

NOTE 1: SEE DISTRICT 4 STANDARD FOR EROSION CONTROL AGGREGATE REQUIREMENTS. THIS ITEM IS ONLY REQUIRED BEHIND PROPOSED GUARDRAIL. SEE PLAN AND PROFILE SHEETS FOR EXACT LOCATIONS.

NOTE 2: ESTIMATED VARIABLE DEPTH HMA BINDER COURSE THICKNESS:
STA. 530+00 TO STA. 532+90 - NONE ANTICIPATED
STA. 532+90 TO STA. 536+38.33 - VARIES 2-1/4" TO 13-1/8"
STA. 537+73.67 TO STA. 541+03 - VARIES 2-1/4" TO 21-3/4"
STA. 541+03 TO STA. 543+00 - NONE ANTICIPATED

NOTE 3: CONSTRUCT PROPOSED SLOPES AT 1:2 BEHIND GUARDRAIL AND 1:4 ELSEWHERE.

Coombe-Bloxdorf P.C.
-CIVIL ENGINEERS-
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STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

TYPICAL SECTIONS
LITTLE HAW CREEK

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

F.A.P RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
626	42-(B,B-1) BR-1	KNOX	152	79
		CONTRACT NO. 68754		
	ILLINOIS FED. AID PROJECT			

TRAFFIC CONTROL SCHEDULE

LOCATION	OFFSET	TEMP PVT MK LINE 4"	PAVT MARK TAPE T4 4	TEMP PVT MK LINE 24"	WORK ZONE PAVT MK REM	TEMP CONC BARRIER	RELOC TEMP CONC BARRIER	IMP ATTEN TEMP NRN TL3	IMP ATTEN REL NRD TL3	PINNING TEMP CONC BARRIER
		FOOT	FOOT	FOOT	SQ FT	FOOT	FOOT	EACH	EACH	EACH
STAGE 1										
STA 529+40 TO STA 544+15	CL				98					
RT STA 529+45	RT			12						
STA 530+01 TO STA 543+85 (Along drums)	LT	1384								
STA 530+92 TO STA 531+22	LT							1		
STA 531+09 TO STA 532+84						175				42
STA 531+29 TO STA 542+32 (Far Right)	RT	1103								
STA 532+84 TO 533+14	RT							1		
STA 534+80.5 TO STA 535+10.5	RT							1		
STA 535+10.5 TO STA 539+23						412.5				99
STA 539+23 TO STA 539+53	RT							1		
STA 540+28.5 TO STA 540+58.5	RT							1		
STA 540+54.5 TO STA 542+41.5						187.5				45
STA 542+46 TO STA 542+76								1		
LT STA 544+12	LT			11						
STAGE 2										
STA 529+55 TO STA 536+38.33 (Along drums)	RT	683								
STA 530+79 TO STA 531+03	RT								1	
STA 531+22 TO STA 532+84							162.5			39
STA 531+00 TO STA 536+38.33 (Far Left)	LT	538								
STA 532+84 TO 533+14	LT								1	
STA 534+80.5 TO STA 535+10.5	LT								1	
STA 535+10.5 TO STA 539+23							412.5			99
STA 536+38.33 TO STA 537+73.67	LT		136							
STA 536+38.33 TO STA 537+73.67	RT		136							
STA 537+73.67 TO STA 543+52	RT	578								
STA 537+73.67 TO STA 542+25	LT	451								
STA 539+23 TO STA 539+53	LT								1	
STA 540+24.5 TO STA 540+54.5	LT								1	
STA 540+58.5 TO STA 542+46							187.5			45
STA 542+41.5 TO STA 542+71.5	RT								1	
TOTAL		4737	272	23	98	775	762.5	6	6	369

PAVEMENT MARKING SCHEDULE

LOCATION	OFFSET	COMMENT	MODIFIED URETHANE MK LINE 4" (WHITE)	MODIFIED URETHANE MK LINE 4" (YELLOW)	PAVT MARK REM
			FOOT	FOOT	SQ FT
STA 529+40 TO STA 544+15	LT	EDGE LINE	1478		
STA 529+40 TO STA 544+15	CL	CENTER LINE		2956	107
STA 529+40 TO STA 544+15	RT	EDGE LINE	1478		372
TOTAL			5912		479

PAVEMENT MARKING NOTES:

1. SEE HIGHWAY STANDARD 780001 FOR PAVEMENT MARKING DETAILS.

DRAINAGE SCHEDULE

LOCATION	PIPE CULVERT REM	PIPE CUL SPEC 18"	PIPE ELBOW 12"	MET END SEC 12"	MET END SEC 18"	MET END SEC 24"	STORM SEW CL B1 24"	CONC THRUST BLOCK	PIPE DRAINS 12"	TY G INLET BOX 610001	GRATES & COVERS T2A	MH A 4' TY 1 F CLOSED
	FOOT	FOOT	EACH	EACH	EACH	EACH	FOOT	EACH	FOOT	EA	EA	EA
LT STA 532+72.37, 16' LT TO STA 534+14, 26.08' LT							142				2	
LT STA 533+44	48											
LT STA 534+16,26.08' LT												1
LT STA 534+18,26.08' LT TO STA 535+50, 33.2' LT							132					
LT STA 535+50, 33.2' LT						1						
LT STA 535+05	21											
LT STA 536+24.80, 15' LT									4	1		
LT STA 536+24.80, 19' LT			1						12			
LT STA 536+24.80, 27' LT			1					1	4			
LT STA 536+24.80, 32' LT				1								
RT STA 536+24.80, 15' RT									4	1		
RT STA 536+24.80, 19' RT			1						14			
RT STA 536+24.80, 29' RT			1					1	4			
RT STA 536+24.80, 33' RT				1								
RT STA 539+06.5, 23.2' RT					1							
RT STA 539+64, 24' RT					1							
RT STA 539+91	39											
RT STA 539+91, 24' RT		39										
TOTAL	108	39	4	2	2	1	274	2	42	2	2	1

SEEDING SCHEDULE

LOCATION	SEEDING CL 3A	NITROGEN FERT NUTR	PHOSPHORUS FERT NUTR	POTASSIUM FERT NUTR
	ACRE	POUND	POUND	POUND
LEFT OF CENTERLINE ROADWAY	0.25	23	23	23
RIGHT OF CENTERLINE ROADWAY	0.25	23	23	23
TOTAL	0.50	46	46	46

GUTTER SCHEDULE

LOCATION	CLASS SI CONC OUTLET	CONC CURB TB	CONC GUTTER TYPE A (SPL)
	CU YD	FOOT	FOOT
STAGE 1, PHASE 1			
STAGE 1, PHASE 2			
LT STA 531+00 TO STA 532+16			116
LT STA 532+16 TO STA 532+72.87	6.63		
LT STA 536+14.80 TO STA 536+34.80		20	
LT STA 540+83 TO STA 541+41.81	7.47		
LT STA 541+41.81 TO STA 542+35			93.2
STAGE 2			
RT STA 536+14.80 TO STA 536+34.80		20	
RT STA 540+83 TO STA 541+41.81	7.47		
RT STA 541+41.81 TO STA 542+40			98.2
STAGE 3			
TOTAL	21.6	40.0	307

TREE REMOVAL

	TREE REMOV 6-15"	TREE REMOV OVER 15"	TREE REMOV ACRES
	UNITS	UNITS	ACRES
31' LT STA 538+07	8		
RT STA 533+95 TO STA 534+40			0.004
38' RT STA 534+71 *	20		
30' RT STA 535+51	12		
40' RT STA 536+50	12		
LT STA 536+59 TO STA 536+84			0.004
48' RT STA 536+85 **	30		
34' RT STA 536+89	8		
LT STA 537+17 TO STA 537+57			0.006
35' RT STA 538+06		18	
34' RT STA 538+24	6		
40' RT STA 538+31	10		
TOTALS=	106	18	0.014

ROW / SURVEY MARKER SCHEDULE

STATION	OFFSET	FUR ERECT ROW MARKERS	PERM SURV MKRS T1
		(EACH)	(EACH)
532+00.00	30' RT	1	
532+50.00	50' RT	1	
533+00.00	32.17' LT	1	
533+50.00	50' LT	1	
533+81.83	50' LT	1	
533+81.83	0'		1
533+81.83	50' RT	1	
534+12.33	50' RT	1	
535+18.95	50' LT	1	
536+64.67	16' RT		1
540+50.00	50' LT	1	
540+50.00	50' RT	1	
541+00.00	30' LT	1	
541+00.00	30' RT	1	

SHOULDER SCHEDULE

LOCATION	SUB GRAN MAT B 4"	BASE CSE WID 8"	P BIT MATLS (PR CT)	**AGG (PR CT)	HMA SHOULDERS 1 1/2"	HMA SHOULDERS (VAR. DEPTH)
	SQ YD	SQ YD	POUND	TON	SQ YD	TON
STAGE 1, PHASE 1						
RT STA 531+15 TO STA 536+70.5	309	247	239	0.6	-	
RT STA 537+49 TO STA 542+40	273	218	210	0.53		
STAGE 1, PHASE 2						
LT STA 531+00 TO STA 536+38.33	299	239	592	1.5		
LT STA 537+73.67 TO STA 542+35	256	205.0	526	1.3		
STAGE 2						
RT STA 531+15 TO STA 536+70.5			383	0.91		
RT STA 532+00 TO STA 536+38.33						53.5
RT STA 537+49 TO STA 542+40			502	1.3		
RT STA 537+73.67 TO STA 540+93.53						124.2
STAGE 3						
RT STA 529+40 TO STA 536+38.33			248	0.6	310	
LT STA 532+72.87 TO STA 536+38.33			130	0.3	162	
LT & RT STA 537+73.67 TO STA 540+93.53			228	0.6	284	
TOTAL	1137	909	3058	8	756	178

** NOT A PAY ITEM

Coombe-Bloxdorf P.C.
-CIVIL ENGINEERS-
-STRUCTURAL ENGINEERS-
-LAND SURVEYORS-
Design Firm License No. 184-002703

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STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

SCHEDULE OF QUANTITIES
LITTLE HAW CREEK

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

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
626	42-(B,B-1) BR-1	KNOX	152	80
		CONTRACT NO. 68754		
	ILLINOIS FED. AID PROJECT			

EARTHWORK SCHEDULE

LOCATION	STAGE	EARTH EXCAVATION	EARTH EXC * 0.75	EMBANKMENT	FURNISHED EXCAVATION	TOPSOIL F & P 4
		CU YD	CU YD	CU YD	CU YD	SQ YD
STA 531+00 TO STA 542+00	1	257	193	925	732	1215
STA 531+00 TO STA 542+00	2	316	237	752	515	1249
TOTALS		573			1247	2464

EARTHWORK NOTES:

1. ESTIMATED SHRINKAGE FACTOR = 25%.
2. APPROXIMATE EMBANKMENT QUANTITY IS SHOWN FOR INFORMATION ONLY.
3. THE ENGINEER SHALL DETERMINE IF EXCAVATION IS SUITABLE FOR USE AS FILL MATERIAL.

PAVEMENT SCHEDULE

STATION TO STATION	LOCATION	AGG SURF CSE B	P BIT * MATLS (PR CT)	** AGG (PR CT)	HMA SUR REM (BUTT JT)	TEMPORARY RAMP	HMA BC IL-9.5 N50 (VAR. DEPTH)	HMA SC "D" N50	HMA BC IL-9.5 N50 4.5"	BR APPR PVT CONN (FLX)
		TON	POUND	TON	SQ YD	SQ YD	TON	TON	TON	SQ YD
STAGE 1, PHASE 1										
STAGE 1, PHASE 2										
LT STA 532+04 TO STA 532+09						8.9				
LT STA 532+04 TO STA 532+60					75					
LT STA 532+04 TO STA 536+38.33			717	1.8			160			
STA 533+44	PE LT								7	
STA 534+08	FE LT									
LT STA 536+27.33 TO STA 536+32.33						8.9				
LT STA 536+32.33 TO STA 536+38.33										8
LT STA 537+73.67 TO STA 537+79.67										8
LT STA 537+73.67 TO STA 541+25			939	2.3			377			
LT STA 537+79.67 TO STA 537+84.67						8.9				
LT STA 541+11 TO STA 541+25					19					
LT STA 541+20 TO STA 541+25						8.9				
STAGE 2										
RT STA 532+04 TO STA 532+09						8.9				
RT STA 532+04 TO STA 532+60					75					
RT STA 532+04 TO STA 536+38.33			717	1.8			161			
STA 534+46	FE RT								22	
RT STA 536+27.33 TO STA 536+32.33						8.9				
RT STA 536+32.33 TO STA 536+38.33										8
RT STA 537+73.67 TO STA 537+79.67										8
RT STA 537+73.67 TO STA 541+25			939				377			
RT STA 537+79.67 TO STA 537+84.67						8.9				
RT STA 541+11 TO STA 541+25					19					
RT STA 541+20 TO STA 541+25						8.9				
STAGE 3										
LT & RT STA 529+40 TO STA 529+45						13.3				
LT & RT STA 529+40 TO STA 529+50					27					
LT & RT STA 529+40 TO STA 536+38.33			1490	3.7				156		
STA 533+44	PE LT							2		
STA 534+46	FE RT							7		
LT & RT STA 537+73.67 TO STA 544+15			1337	3.4				140		
STA 539+92	PE RT	8								
LT & RT STA 544+05 TO STA 544+15					24					
LT & RT STA 544+10 TO STA 544+15						12.2				
TOTAL		8	6139	13	239	97	1075	305	29	32

*INCLUDES APPLICATIONS ON FIRST, SECOND, AND THIRD LIFTS OF HMA SHOULDER (VD) AND HMA BC IL-12.5 N50 (VD) IF NECESSARY
** NOT A PAY ITEM

PAVEMENT NOTES:

1. APPLICATION RATES USED FOR QUANTITY ESTIMATES ARE AS FOLLLOWS:
   HOT-MIX ASPHALT: 112 LBS / SY / INCH THICKNESS
   P BIT MAT'LS (PR CT) 0.8 LBS/SQ YD

MISCELLANEOUS PAY ITEMS

DESCRIPTION	UNIT	QUANTITY
REMOVAL OF EXISTING STRUCTURE NO. 2	EACH	1
ENGINEER'S FIELD OFFICE, TYPE A	CAL MO	4
ENGINEER'S FIELD LABORATORY	CAL MO	4
MOBILIZATION	L SUM	0.5
TRAFFIC CONTROL AND PROTECTION, STANDARD 701321	EACH	1
TRAFFIC CONTROL AND PROTECTION, STANDARD 701201	L SUM	0.5
TRAFFIC CONTROL AND PROTECTION, STANDARD 701306	L SUM	0.5
TRAFFIC CONTROL AND PROTECTION, STANDARD 701326	L SUM	0.5
TRAFFIC CONTROL SURVEILLANCE	CAL DAY	10
TEMPORARY BRIDGE TRAFFIC SIGNALS	EACH	1
TEMPORARY RUMBLE STRIPS	EACH	6
CONSTRUCTION LAYOUT	L SUM	0.5

EROSION CONTROL SCHEDULE

LOCATION	EROSION CONTR BLANKET	TEMP EROS CONTR SEED (1)	TEMP DITCH CHECKS	PERIMETER EROS BAR	INLET AND PIPE PROTECT	STONE DUMP RIP CL A4	FILTER FABRIC
	SQ YD	POUND	FOOT	FOOT	EACH	SQ YD	SQ YD
LEFT OF CENTERLINE ROADWAY	1214	50		538			
STA 532+71.45, 14.75' LT					1		
STA 534+50, 32' LT			11				
STA 535+58, 32' LT			11				
STA 536+24.80, LT					1	5	5
STA 540+83, 25' LT						7	7
AT BRIDGE						809	809
RIGHT OF CENTERLINE ROADWAY	1249	52		165			
STA 535+14, 35' RT			11				
STA 536+15, 36.5' RT			11				
STA 536+24.80, RT					1	5	5
STA 539+92, RT					1	13	13
STA 540+83, 25' LT						7	7
TOTAL	2463	102	44	703	4	846	846

(1) ASSUMES 2 APPLICATIONS OVER ALL DISTURBED AREA

EROSION CONTROL NOTES:

1. THE QUANTITY FOR TEMPORARY EROSION CONTROL SEEDING ASSUMES TWO SEPARATE APPLICATIONS AT A RATE OF 100 POUNDS/ACRE PER APPLICATION. THE CONTRACTOR SHALL APPLY AS NECESSARY AND AS DIRECTED BY THE ENGINEER IN THE FIELD.

GUARDRAIL SCHEDULE

STATION TO STATION	LOCATION	SPBGR TY A 6FT POSTS	TRAF BAR TERM T2	TRAF BAR TERM T6	TBT, TY 1 (SPECIAL) TANGENT	GUARDRAIL REMOV	GUARD-RAIL MKR TYPE A	TERMINAL MARKER-(DA)	SPBGR (SHORT RADIUS)	GDRL AGG EROS CONT	BARRIER WALL MRKR TYPE A
		FOOT	EACH	EACH	EACH	FOOT	EACH	EACH	FOOT	TON	EACH
RT STA 531+88 TO STA 532+32	NW QUAD					44	4				
RT STA 534+68 TO STA 536+91.00						223					
RT STA 531+88 TO STA 534+19		231					2				
RT STA 534+19 TO STA 534+27.5			1				1				
RT STA 534+27.5 TO STA 534+36									27		
RT STA 531+58 TO STA 534+38										42	
RT STA 534+54 TO STA 536+53.33										30	
RT STA 534+56 TO STA 534+64.5									27		
RT STA 534+64.5 TO STA 534+73			1				2				
RT STA 534+73 TO STA 536+10.18		137.2					6				
RT STA 536+10.18 TO STA 536+55.83				1			4				
RT STA 536+55.83 TO STA 537+56.17											2
LT STA 534+00 TO STA 536+53.33	NE QUAD						9			38	
LT STA 535+43 TO STA 536+91						148					
LT STA 534+33 TO STA 534+83					1		1	1			
LT STA 534+83 TO STA 536+10.18		127.2					2				
LT STA 536+10.18 TO STA 536+55.83				1							
LT STA 536+55.83 TO STA 537+56.17											2
LT STA 537+28 TO STA 539+51	SE QUAD					223					
LT STA 537+56.17 TO STA 538+01.82				1			1				
LT STA 537+58.67 TO STA 540+48							11			44	
LT STA 538+01.82 TO STA 539+57		155.2					2				
LT STA 539+57 TO STA 540+07					1		1	1			
RT STA 537+28 TO STA 538+76	SW QUAD					148	6				
RT STA 537+56.17 TO STA 538+01.82				1			1				
RT STA 537+58.67 TO STA 539+50										29	
RT STA 538+01.82 TO STA 538+66		64.2					1				
RT STA 538+66 TO STA 539+16					1		1	1			
TOTAL		714.8	2	4	3	786	55	3	54	183	4

REMOVAL SCHEDULE

LOCATION	PAVEMENT REM	HMA SURF REM 1 1/2"	GUTTER REMOVAL	PAVED SHLD REMOVAL	FENCE REMOVAL
	SQ YD	SQ YD	FOOT	SQ YD	FOOT
STAGES 1 AND 2					
LT STA 531+00 TO STA 533+18			218		
STA 532+60 TO STA 536+32.33		993			
STA 534+62 TO STA 536+48					186
STA 536+32.33 TO STA 536+90.75	123				
STA 536+70.82 TO STA 536+90.75					
STA 537+28.77 TO STA 537+48.70					
STA 537+28.77 TO STA 537+79.67	109				
STA 537+51 TO STA 539+43					192
STA 537+79.67 TO STA 541+11		884			
LT STA 540+83 TO STA 542+35			152		
RT STA 540+83 TO STA 542+40			157		
STAGE 3					
STA 529+50 TO STA 532+04		677			
LT STA 531+00 TO STA 532+73.48				77	
LT STA 540+83 TO STA 542+35				52	
RT STA 540+83 TO STA 542+40				54	
STA 541+25 TO STA 544+05		684			
TOTAL	232	3238	527	183	378

Coombe-Bloxdorf P.C.
-CIVIL ENGINEERS-
-STRUCTURAL ENGINEERS-
-LAND SURVEYORS-
Design Firm License No. 184-002703

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DESIGNED - | DRAWN - CFC | CHECKED - GJB | DATE - / /

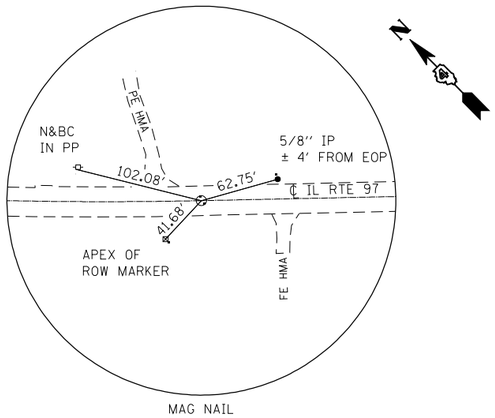
REVISED - | REVISED - | REVISED - | REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

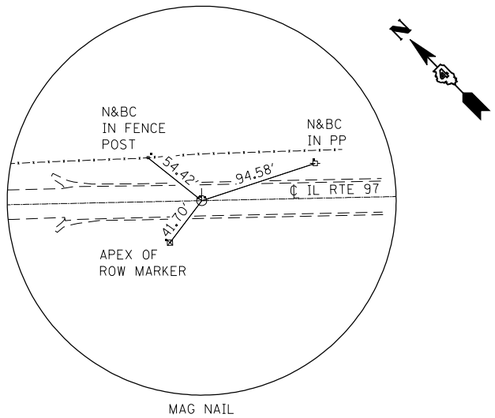
SCHEDULE OF QUANTITIES
LITTLE HAW CREEK

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

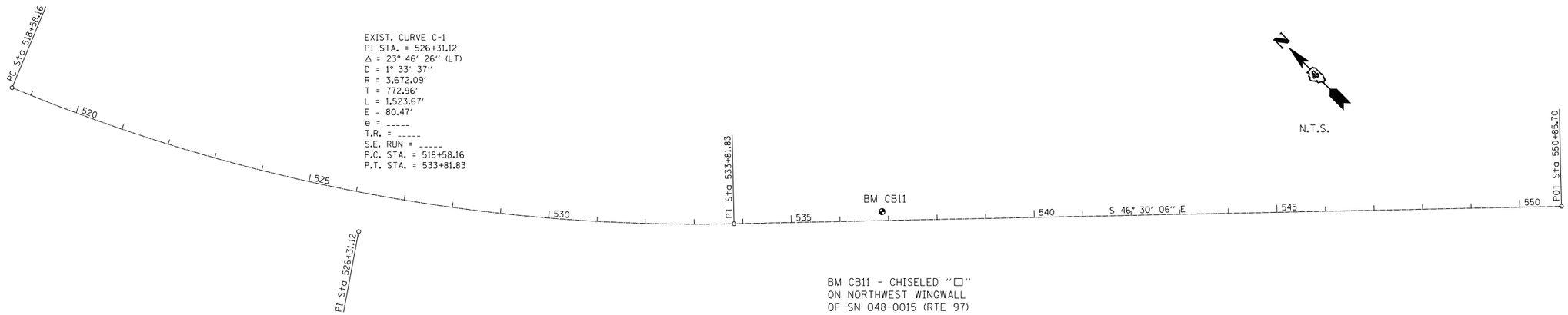
F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
626	42-(B,B-1) BR-1	KNOX	152	81
		CONTRACT NO. 68754		
	ILLINOIS FED. AID PROJECT			



PT STA 533+81.83
N: 1522676.2587
E: 2286850.6246



STA 542+00.00
N: 1522113.0832
E: 2287444.1226



BM CB11 - CHISELED "□"
ON NORTHWEST WINGWALL
OF SN 048-0015 (RTE 97)
ELEVATION 604.710

Coombe-Bloxdorf P.C.
-CIVIL ENGINEERS-
-STRUCTURAL ENGINEERS-
-LAND SURVEYORS-
Design Firm License No. 184-002703

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	PLOT DATE = 10/13/2015	DATE - / /	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

ALIGNMENT, TIES & BENCHMARKS
LITTLE HAW CREEK

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

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
626	42-(B,B-1) BR-1	KNOX	152	82
		CONTRACT NO. 68754		
	ILLINOIS FED. AID PROJECT			

EXIST. CURVE C-1
PI STA. = 526+31.12
Δ = 23° 46′ 26″ (LT)
D = 1° 33′ 37″
R = 3,672.09′
T = 772.96′
L = 1,523.67′
E = 80.47′
e = _____
T.R. = _____
S.E. RUN = _____
P.C. STA. = 518+58.16
P.T. STA. = 533+81.83

PR SS, CL B, TY 1 24″
142′ @ 2.41%
USFL 608.00
DSFL 604.58

THEODORE E. LAMBASIA
JULIE A. LAMBASIA

STA 534+16.00, 26.08′ LT
PR STORM MH 4′ DIA
W/ TY 1 FRAME, CLOSED LID
PRC FLAT SLAB TOP
RIM EL 608.80
24″ FL 604.58 W
24″ FL 604.48 E

PR SS, CL B, TY 1 24″
132′ @ 2.41%
USFL 604.48
DSFL 601.30
1 EA - MET END SEC 24″

SAM COFFMAN, JR.

[1] STA 536+24.80 - 0° SKEW
20 FOOT PIPE DRAIN 12″
RIM ELEV 607.74
USFL 16′ LT ELEV 605.36
DSFL 32′ LT ELEV 601.65
1 EA - TY G INLET STD 610001
1 EA - MET END SEC 12″
2 EA - PIPE ELBOW 12″
1 EA - CONC THRUST BLOCK
20 FT - CONC CURB TY B

[2] STA 536+24.80 - 0° SKEW
22 FOOT PIPE DRAIN 12″
RIM ELEV 607.74
USFL 16′ RT ELEV 605.36
DSFL 33′ RT ELEV 600.80
1 EA - TY G INLET STD 610001
1 EA - MET END SEC 12″
2 EA - PIPE ELBOW 12″
1 EA - CONC THRUST BLOCK
20 FT - CONC CURB TY B

PR GUTTER TY A (SPL) AND
GUTTER OUTLET
STA 531+00 TO STA 532+72.87
SEE DETAIL SHEET 129

BEGIN CONSTRUCTION
STA. 529+40.00

36′ LT
+44 PE
16′ HMA PVMT FD 6″
+00 FE
16′ EARTH

PR GUARDRAIL
(SEE SCHEDULE
FOR DETAILS)

50′ R
+00
40′ LT

BM #11

HMA SHLDRS OVER
TEMP BC WID 8″

LITTLE HAW CREEK

BACK OF ABUTMENT
STA 537+44.67

END OF BR APPR PVT
STA 537+73.67

END OF BR APPR PVT
CONN (FLX) STA 537+79.67

HMA SHLDRS OVER
TEMP BC WID 8″

PR GUARDRAIL (SEE
SCHEDULE FOR DETAILS)

GDRL AGG EROS CONTROL 8″

END CONSTRUCTION
STA. 544+15.00

PR TCE

PR ROW

CONST LIMITS

EX ROW

530+00 | 535+00 | 540+00

IL ROUTE 97

• CONNECT PR SPBGR TO
EX G/R

HMA SHLDRS (VAR DEPTH)
OVER TEMP BC WID 8″

EROSION CONTROL AGG

PR GUARDRAIL (SEE
SCHEDULE FOR DETAILS)

GDRL AGG EROS CONTROL 8″

• TRANSITION THE HEIGHT OF
THE PROPOSED GUARDRAIL
OVER TWO 12.5′ SECTIONS TO
MATCH INTO THE EXISTING

+46 FE
16′ HMA
PVMT FD 6″

END OF BR APPR PVT
CONN (FLX) STA 536+32.33

END OF BR APPR PVT
STA 536+38.33

BACK OF ABUTMENT
STA 536+67.33

PR SPBGR (SHORT
RAD) - (SEE DETAIL)

+32 PE
16′ AGG

PR CONC GUTTER, TY A (SPL)
AND GUTTER OUTLET
LT & RT STA 540+83 TO STA 541+41.81

HMA SHLDRS OVER
TEMP BC WID 8″

39′ P CUL CL D1 18″
W/ 2 MET END SEC 18″

PR GUARDRAIL (SEE
SCHEDULE FOR DETAILS)

TERRY L. JACOBS, TRUSTEE

DAVID V. MCBRIDE
LEOTA H. MCBRIDE

BM #11- CHISELED "□" ON
NE WINGWALL
STA. 536+87.00, 18.40′ LT
ELEVATION 604.71

50′ 0 50′ 100′
SCALE: 1″ = 50′

PLAN
SURVEYED
PLOTTED
ALIGNMENT CHECKED
R/T. OF WAY CHECKED
CADD FILE NAME
NOTE BOOK
NO. _____
BY
DATE

PROFILE
SURVEYED
PLOTTED
GRADES CHECKED
B.M. NOTED
STRUCTURE NOTATNS CHKD
NOTE BOOK
NO. _____
BY
DATE

BEGIN PROJECT
MATCH EXISTING
STA 529+40

END PROJECT
MATCH EXISTING
STA 544+15

+00.00 EL. 617.05
420.00′ V.C.
+20.00 EL. 608.02
+00.00 EL. 608.92
300.00′ V.C.
+00.00 EL. 614.11

PROPOSED PROFILE GRADE
EXISTING GROUND LINE

-4.80%
+0.50%
+0.50%
+2.96%

VPI STA. 534+10.00
ELEVATION 606.97

VPI STA. 539+50.00
ELEVATION 609.67

625 620 615 610 605 600 595 590

627.19 627.19 | 622.19 622.19 | 617.04 617.05 | 612.52 612.88 | 609.57 609.97 | 607.70 608.33 | 607.03 607.95 | 592.91 608.42 | 606.99 608.92 | 608.07 609.83 | 610.30 611.56 | 613.75 614.11 | 618.36 618.36 | 623.36 623.36

530+00 531+00 532+00 533+00 534+00 535+00 536+00 537+00 538+00 539+00 540+00 541+00 542+00 543+00

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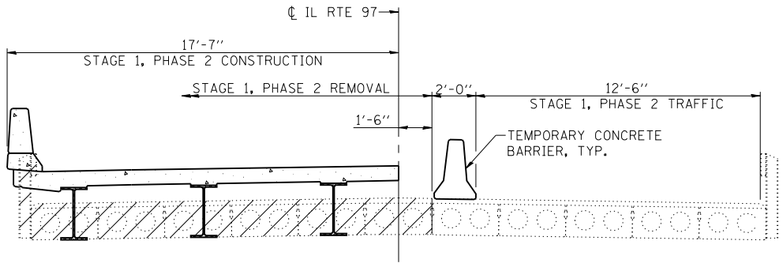
	PLOT DATE = 10/13/2015	DATE - / /	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

PLAN & PROFILE
LITTLE HAW CREEK

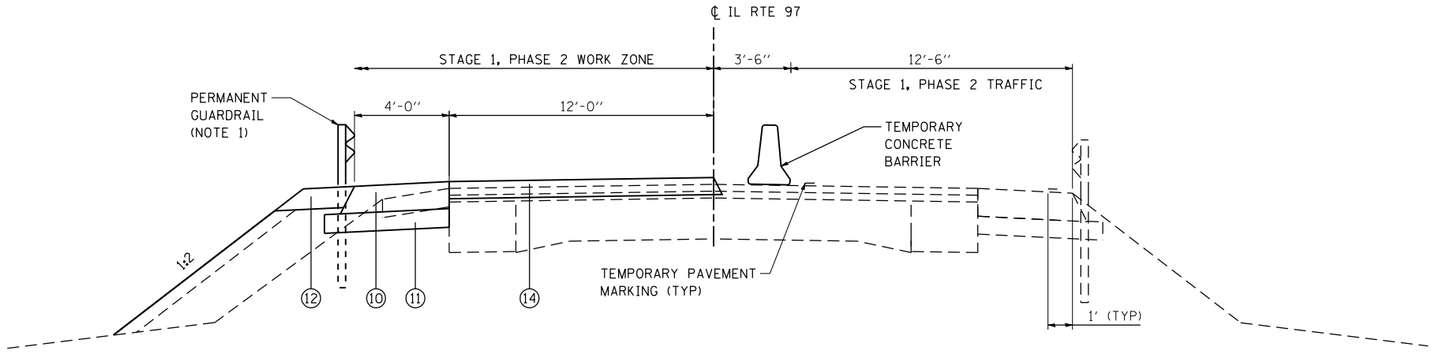
SCALE: 1″=50′ | SHEET NO. 1 OF 1 SHEETS | STA. 530+00 TO STA. 543+00

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
626	42(B,B-1) BR-1	KNOX	152	83
		CONTRACT NO. 68754		
	ILLINOIS FED. AID PROJECT			



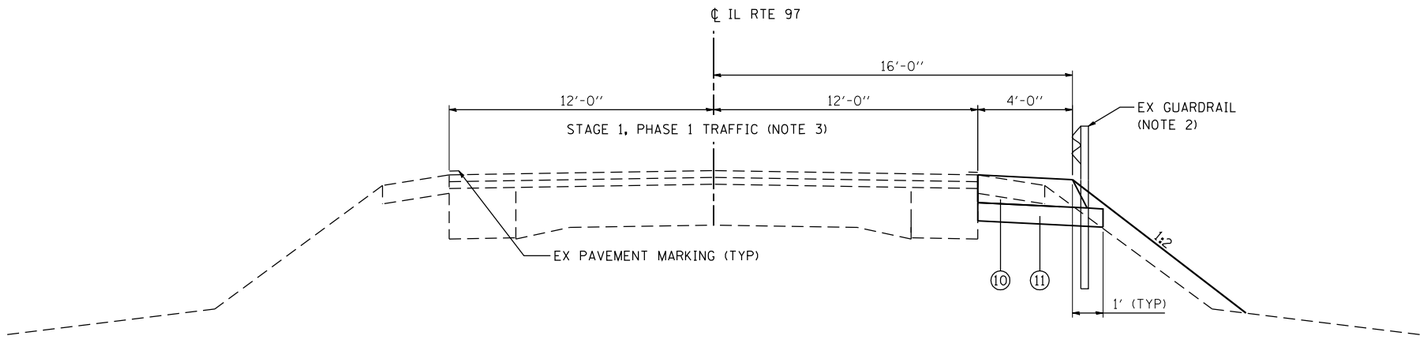
STAGE 1, BRIDGE TYPICAL SECTION – PPC DECK BEAM

(LOOKING SOUTH)
FOR INFORMATION ONLY



STAGE 1, PHASE 2 CONSTRUCTION TYPICAL SECTION

(LOOKING SOUTH)



STAGE 1, PHASE 1 CONSTRUCTION TYPICAL SECTION

(LOOKING SOUTH)

LEGEND

⑩ PROPOSED TEMPORARY BASE COURSE WIDENING, 8"
⑪ PROPOSED SUBBASE GRANULAR MATERIAL, TYPE B 4"
⑫ PROPOSED GUARDRAIL AGGREGATE EROSION CONTROL, 8"
⑭ PROPOSED HMA BINDER COURSE, VARIABLE DEPTH

STAGE CONSTRUCTION GENERAL NOTES

1. ONE LANE OF TRAFFIC ON ILLINOIS ROUTE 97 SHALL BE MAINTAINED AT ALL TIMES.
2. EMERGENCY ACCESS SHALL BE PROVIDED AT ALL TIMES.

SUGGESTED STAGE 1 CONSTRUCTION

PHASE 1

1. UTILIZING TRAFFIC CONTROL AND PROTECTION, STANDARD 701326, INSTALL THE TEMPORARY BASE COURSE WIDENING, 8" FROM RT STA. 531+15 TO STA. 542+40. REMOVE AND REINSTALL EXISTING GUARDRAIL AS NEEDED TO CONSTRUCT WIDENING. TRAFFIC CONTROL SURVEILLANCE SHALL BE PAID FOR THROUGHOUT THE DURATION THAT STANDARD 701326 IS UTILIZED.
2. PLACE TEMPORARY CONCRETE BARRIER AND IMPACT ATTENUATORS AS SHOWN ON THE NEXT SHEET.
3. INSTALL TEMPORARY TRAFFIC SIGNALS PRIOR TO CLOSING THE LT HALF OF ROADWAY. SEE NEXT SHEET FOR ADDITIONAL NOTES FOR TEMPORARY TRAFFIC SIGNALS.
4. INSTALL TEMPORARY PAVEMENT MARKING FOR STAGE 1, PHASE 2 TRAFFIC.

PHASE 2

1. UTILIZING TRAFFIC CONTROL AND PROTECTION, STANDARD 701321, DIRECT TRAFFIC TO THE RT LANE OF IL ROUTE 97.
2. CONSTRUCT THE LT SIDE OF THE BRIDGE AND BRIDGE APPROACH PAVEMENT.
3. PERFORM HMA SURFACE REMOVAL AND BUTT JOINT AND CONSTRUCT THE PROPOSED HMA BINDER COURSE ON THE LT SIDE OF IL ROUTE 97, FROM STA. 532+04 TO STA. 536+32.33 AND FROM STA. 537+79.67 TO STA. 541+25.
4. CONSTRUCT TEMPORARY RAMPS AT STA. 532+04, STA. 536+32.33, STA. 537+79.67 AND AT STA. 541+25.
5. CONSTRUCT THE TEMPORARY BASE COURSE WIDENING, 8" ON THE LT SIDE OF THE ROADWAY FROM STA. 531+00 TO STA. 542+35.
6. PLACE TEMPORARY AGGREGATE AT ENTRANCES, IF NECESSARY, TO MAINTAIN ACCESS.
7. INSTALL GUARDRAIL AND EROS CONTROL AGG ON LT SIDE OF IL ROUTE 97 AND COMPLETE DRAINAGE AND GRADING IMPROVEMENTS.
8. INSTALL TEMPORARY PAVEMENT MARKING FOR STAGE 2 TRAFFIC.

SEE SPECIAL PROVISION "WIDTH RESTRICTION SIGNING" FOR FURTHER DETAILS.

WIDTH RESTRICTION SIGNING DETAIL

ADDITIONAL NOTES

NOTE 1: THE PERMANENT GUARDRAIL SHALL BE BUILT TALL ENOUGH TO MEET THE HEIGHT REQUIREMENTS LISTED ON HWY STANDARD 630001 AFTER SURFACE COURSE HAS BEEN PLACED.

NOTE 2: EXISTING GUARDRAIL TO REMAIN IN PLACE DURING STAGE 1 CONSTRUCTION. IF THE WIDENING ENCROACHES ON THE GUARDRAIL, CONTRACTOR SHALL REMOVE AND REINSTALL GUARDRAIL AS PART OF THE WIDENING OPERATION. NO ADDITIONAL COMPENSATION SHALL BE MADE FOR GUARDRAIL REMOVAL AND REERECTION; IT SHALL BE CONSIDERED PART OF THE COST FOR TEMPORARY BASE COURSE WIDENING, 8".

NOTE 3: TWO-WAY TRAFFIC SHALL BE PERMITTED DURING NON-CONSTRUCTION HOURS. SEE HWY STANDARD, 701326, FOR LANE CLOSURE PROCEDURES DURING WIDENING OPERATIONS.

Coombe-Bloxdorf P.C.
-CIVIL ENGINEERS-
-STRUCTURAL ENGINEERS-
-LAND SURVEYORS-
Design Firm License No. 184-002703

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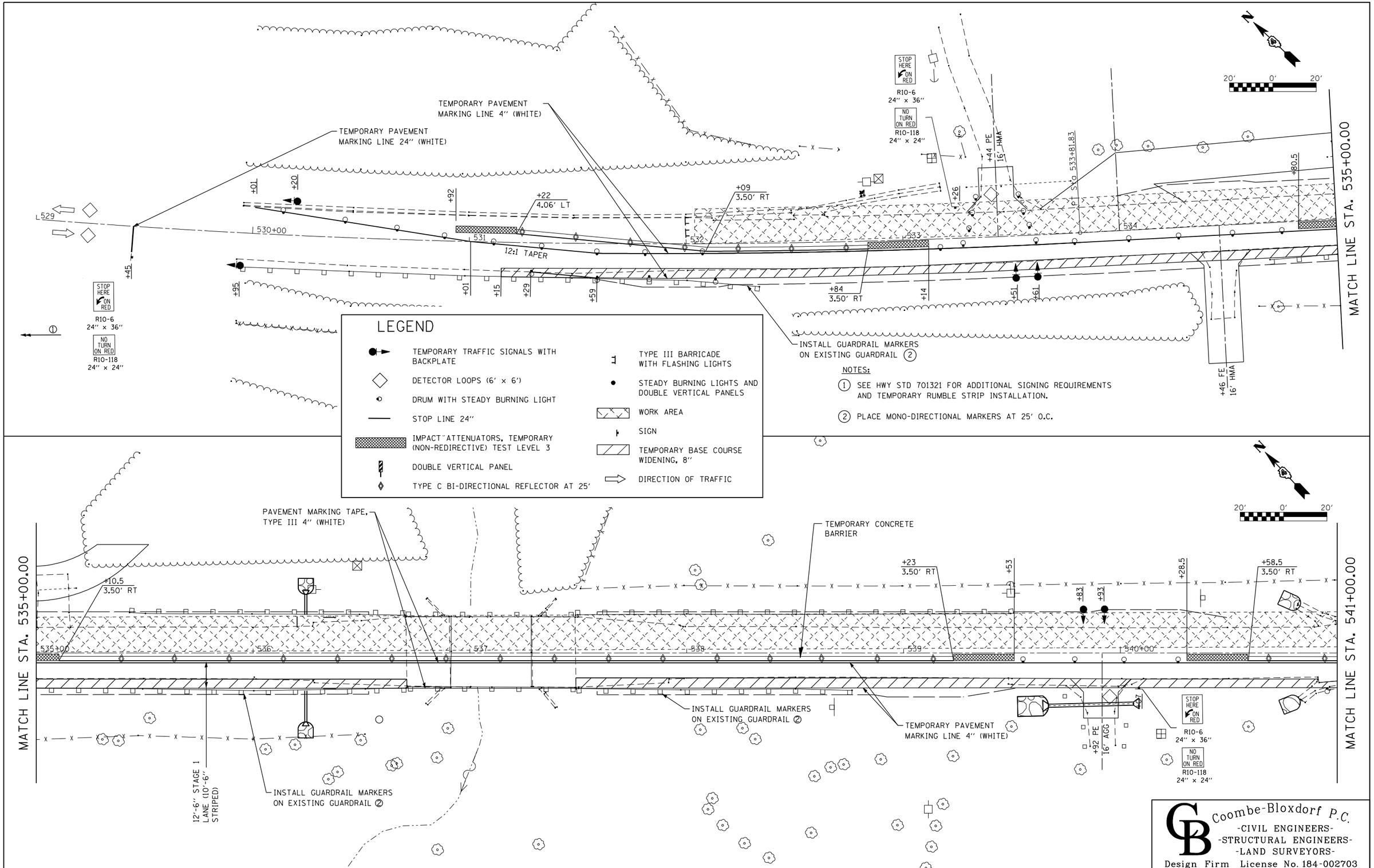
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

STAGE 1 TYPICAL SECTIONS & STAGING NOTES
LITTLE HAW CREEK

SCALE: | SHEET NO. 1 OF 6 SHEETS | STA. | TO STA.

F.A.P RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
626	42-(B,B-1) BR-1	KNOX	152	84
		CONTRACT NO. 68754		
	ILLINOIS FED. AID PROJECT			



Coombe-Bloxdorf P.C.
-CIVIL ENGINEERS-
-STRUCTURAL ENGINEERS-
-LAND SURVEYORS-
Design Firm License No. 184-002703

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STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

STAGE 1 CONSTRUCTION & TRAFFIC CONTROL
LITTLE HAW CREEK

SCALE: 1"=20' | SHEET NO. 2 OF 6 SHEETS | STA. | TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
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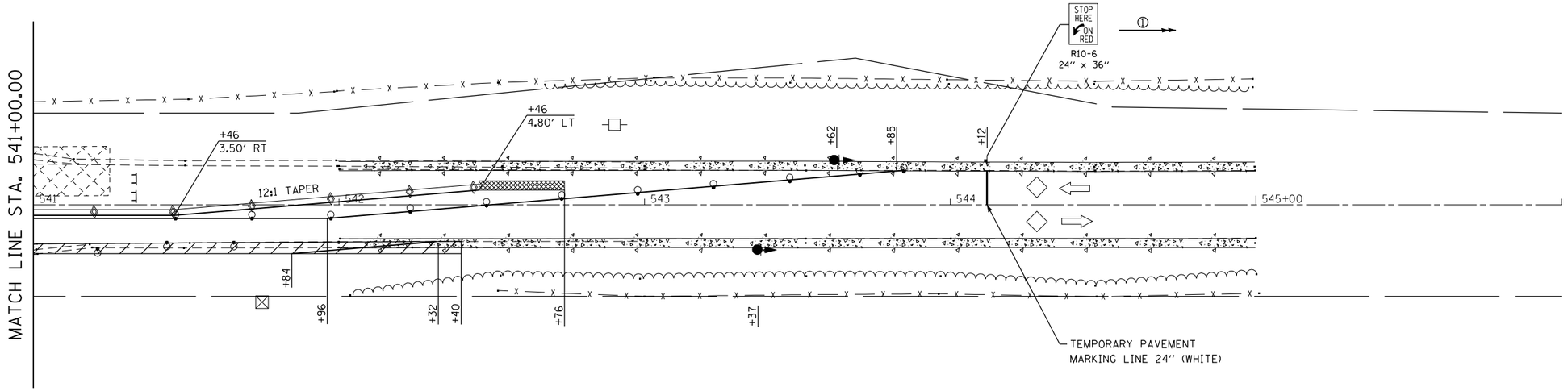
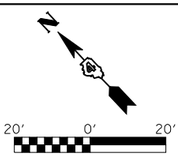
		CONTRACT NO. 68754		
	ILLINOIS	FED. AID PROJECT		





LEGEND

- TEMPORARY TRAFFIC SIGNALS WITH BACKPLATE
- DETECTOR LOOPS (6' x 6')
- DRUM WITH STEADY BURNING LIGHT
- STOP LINE 24" (TEMPORARY PAVEMENT MAKRING)
- IMPACT ATTENUATORS, TEMPORARY (NON-REDIRECTIVE) TEST LEVEL 3
- DOUBLE VERTICAL PANEL
- TYPE C BI-DIRECTIONAL REFLECTOR
- TYPE III BARRICADE WITH FLASHING LIGHTS
- STEADY BURNING LIGHTS AND DOUBLE VERTICAL PANELS
- WORK AREA
- SIGN
- TEMPORARY BASE COURSE WIDENING, 8"
- DIRECTION OF TRAFFIC

NOTES:

(1) SEE HWY STD 701321 FOR ADDITIONAL SIGNING REQUIREMENTS AND TEMPORARY RUMBLE STRIP INSTALLATION.

TRAFFIC CONTROL NOTES

1. FIVE PHASE SIGNAL OPERATION IS REQUIRED WHEN HWY STD 701321 IS IN EFFECT. THE ENGINEER OF TRAFFIC SHALL APPROVE ALL TIMING PARAMETERS. THE CONTRACTOR SHALL CONTACT PAUL GRANT, DISTRICT 4 TRAFFIC SIGNAL TECHNICIAN AT (309) 671-4474 TWO WEEKS PRIOR TO SIGNAL TURN ON.

2. THE CONTRACTOR SHALL INSTALL DETECTOR LOOPS FOR USE WITH THE TEMPORARY TRAFFIC SIGNALS IN ACCORDANCE WITH HWY STD 701321. THE CONTRACTOR MAY ELECT TO UTILIZE MICROWAVE DETECTION.

3. THE TEMPORARY TRAFFIC SIGNAL INSTALLATION SHALL CONFORM TO ALL MUTCD REQUIREMENTS.

4. REMOVAL OF DETECTOR LOOPS AND RUBMLE STRIPS AFTER STAGED CONSTRUCTION SHALL BE COMPLETED TO THE SATISFACTION OF THE ENGINEER. ANY DAMAGE TO THE EXISTING PAVEMENT FROM THE RUMBLE STRIPS NEEDS TO BE REPAIRED AT THE CONTRACTOR'S EXPENSE. THERE WILL BE NO ADDITIONAL COMPENSATION.

5. ALL LABOR, EQUIPMENT, AND MATERIALS REQUIRED TO COMPLY WITH THESE REQUIREMENTS AND PLAN SHEETS DETAILS SHALL BE INCLUDED IN THE CONTRACT UNIT PRICE FOR THE TEMPORARY BRIDGE TRAFFIC SIGNALS. THERE WILL BE NO ADDITIONAL COMPENSATION.

Coombe-Bloxdorf P.C.
-CIVIL ENGINEERS-
-STRUCTURAL ENGINEERS-
-LAND SURVEYORS-
Design Firm License No. 184-002703

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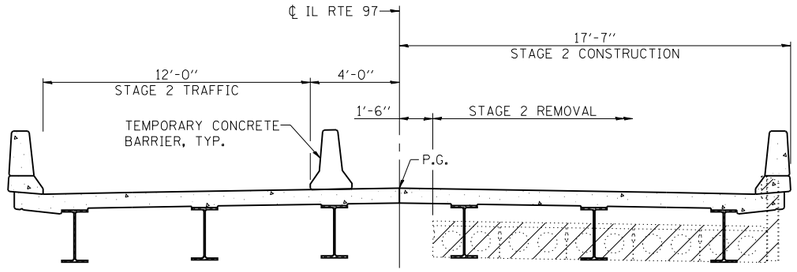
CB PROJECT NO	PLOT DATE = 10/13/2015	DATE - / /	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

STAGE 1 CONSTRUCTION & TRAFFIC CONTROL
LITTLE HAW CREEK

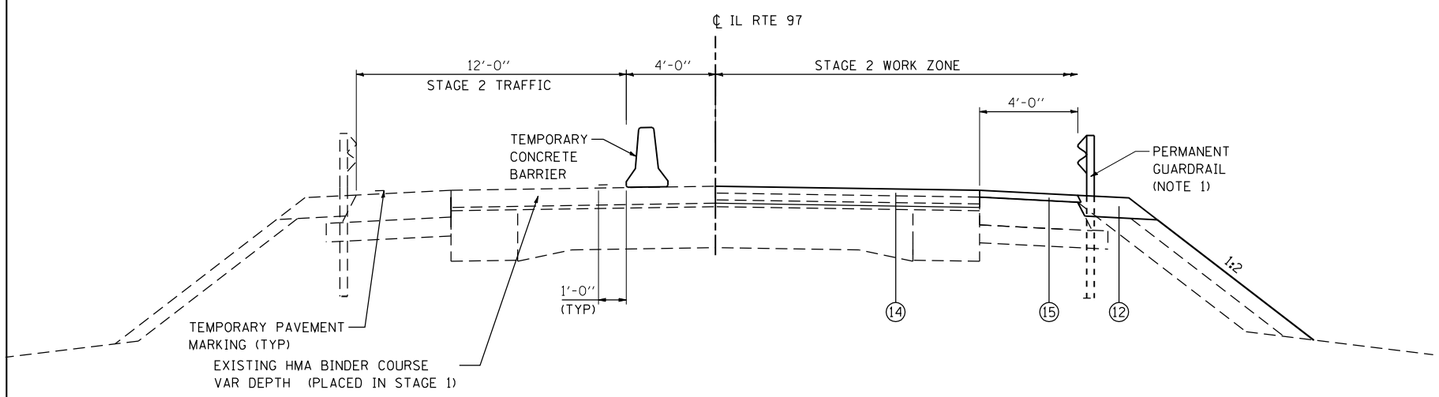
SCALE: 1"=20' | SHEET NO. 3 OF 6 SHEETS | STA. | TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
626	42-(B,B-1) BR-1	KNOX	152	86
		CONTRACT NO. 68754		
	ILLINOIS FED. AID PROJECT			



STAGE 2 BRIDGE TYPICAL SECTION – PPC DECK BEAM

(LOOKING SOUTH)
FOR INFORMATION ONLY



STAGE 2 CONSTRUCTION TYPICAL SECTION

(LOOKING SOUTH)

SUGGESTED STAGE 2 & 3 CONSTRUCTION

STAGE 2

1. UTILIZING TRAFFIC CONTROL AND PROTECTION, STANDARD 701321, DIRECT TRAFFIC TO THE LT LANE OF IL ROUTE 97.
2. REMOVE THE RT SIDE OF THE EXISTING STRUCTURE.
3. CONSTRUCT THE RT SIDE OF THE BRIDGE AND BRIDGE APPROACH PAVEMENT.
4. PERFORM HMA SURFACE REMOVAL AND CONSTRUCT THE PROPOSED VARIABLE DEPTH HMA BINDER COURSE ON THE RT SIDE OF IL ROUTE 97, FROM STA. 532+04 TO STA. 536+32.33 AND FROM STA. 537+79.67 TO STA. 541+25.
5. CONSTRUCT TEMPORARY RAMPS AT STA. 536+32.33 AND AT STA. 537+79.67.
6. INSTALL GUARDRAIL, HMA SHOULDERS, AND EROS CONTROL AGG ON RT SIDE OF IL ROUTE 97 AND COMPLETE DRAINAGE AND GRADING IMPROVEMENTS.

STAGE 3

1. UTILIZING TRAFFIC CONTROL AND PROTECTION, STANDARD 701306, COMPLETE REMAINDER STA. 529+40 TO STA. 532+04 AND STA. 541+25 TO STA. 544+15 (AT ENDS) HMA SURFACE REMOVAL & BUTT JOINT FOR THE RT AND LT LANES OF IL ROUTE 97 AS SHOWN ON THE PLAN SHEET.
2. UTILIZING TRAFFIC CONTROL AND PROTECTION, STANDARD 701326, REMOVE STAGE 1 AND 2 BASE COURSE WIDENING AND CONSTRUCT GUTTERS TYPE A AND CLASS SI CONCRETE OUTLETS WHERE APPLICABLE.
3. CONSTRUCT THE HMA SURFACE COURSE 1½" FOR THE RT AND LT LANES FROM STA. 529+40 TO STA 536+32.33 AND FROM STA. 537+79.67 TO STA. 544+15.
4. CONSTRUCT FINAL HMA SHOULDER LIFTS AND EROSION CONTROL AGGREGATE ON BOTH SIDES OF IL ROUTE 97.
5. CONSTRUCT PROPOSED ENTRANCES AND ALL REMAINING IMPROVEMENTS.

ADDITIONAL NOTE

NOTE 1: THE PERMANENT GUARDRAIL SHALL BE BUILT TALL ENOUGH TO MEET THE HEIGHT REQUIREMENTS LISTED ON HWY STANDARD 630001 AFTER SURFACE COURSE HAS BEEN PLACED.

LEGEND

(10) PROPOSED TEMPORARY BASE COURSE WIDENING, 8"
(11) PROPOSED SUBBASE GRANULAR MATERIAL, TYPE B 4"
(12) PROPOSED GUARDRAIL AGGREGATE EROSION CONTROL, 8"
(14) PROPOSED HMA BINDER COURSE, VARIABLE DEPTH
(15) PROPOSED HMA SHOULDER, VARIBLE DEPTH

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-STRUCTURAL ENGINEERS-
-LAND SURVEYORS-
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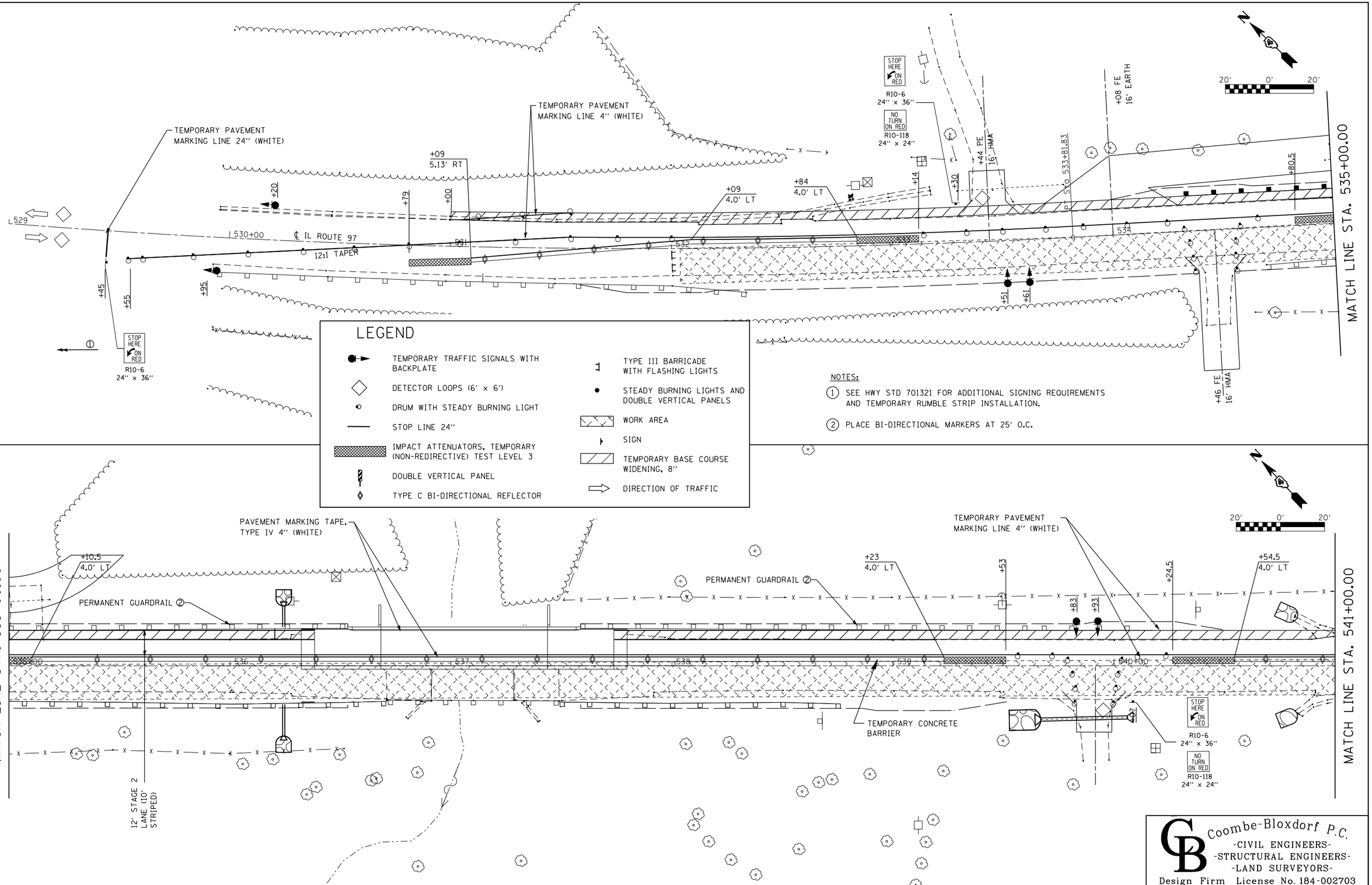
CB PROJECT NO 09024-8	PLOT DATE = 10/13/2015	DATE - / /	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

STAGE 2 TYPICAL SECTIONS & STAGING NOTES
LITTLE HAW CREEK

SCALE: | SHEET NO. 4 OF 6 SHEETS | STA. | TO STA.

F.A.P RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
626	42-(B,B-1) BR-1	KNOX	152	87
		CONTRACT NO. 68754		
	ILLINOIS FED. AID PROJECT			



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-STRUCTURAL ENGINEERS-
-LAND SURVEYORS-
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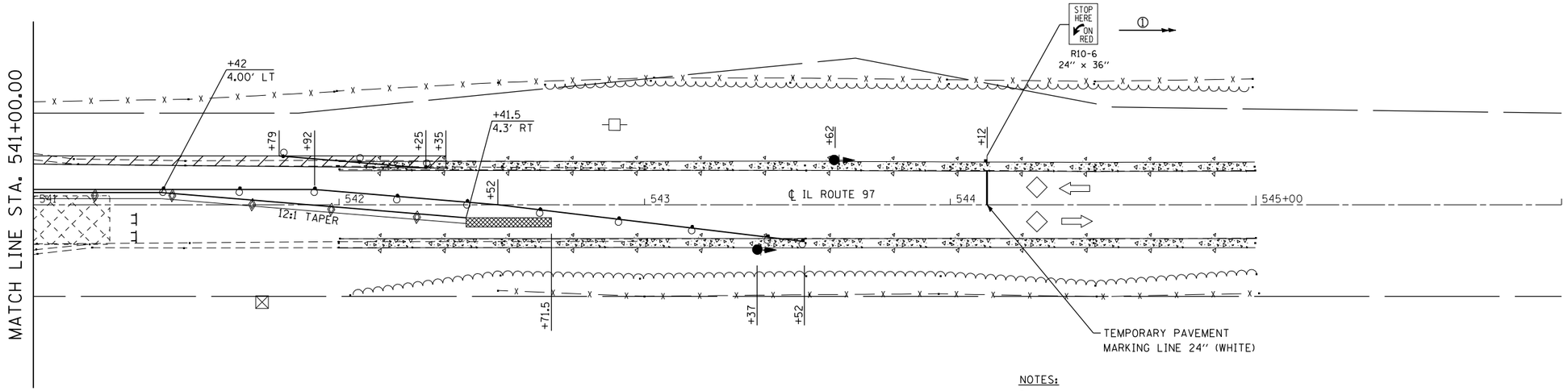
	PLOT DATE = 10/13/2015	DATE - / /	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

STAGE 2 CONSTRUCTION & TRAFFIC CONTROL
LITTLE HAW CREEK

SCALE: 1"=20' | SHEET NO. 5 OF 6 SHEETS | STA. | TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
626	42-(B,B-1) BR-1	KNOX	152	88
		CONTRACT NO. 68754		
		ILLINOIS FED. AID PROJECT		



NOTES:

(1) SEE HWY STD 701321 FOR ADDITIONAL SIGNING REQUIREMENTS AND TEMPORARY RUMBLE STRIP INSTALL.ATION.

20' 0' 20'

LEGEND

- TEMPORARY TRAFFIC SIGNALS WITH BACKPLATE
- DETECTOR LOOPS (6' x 6')
- DRUM WITH STEADY BURNING LIGHT
- STOP LINE 24" (TEMPORARY PAVEMENT MAKRING)
- IMPACT ATTENUATORS, TEMPORARY (NON-REDIRECTIVE) TEST LEVEL 3
- DOUBLE VERTICAL PANEL
- TYPE C BI-DIRECTIONAL REFLECTOR
- TYPE III BARRICADE WITH FLASHING LIGHTS
- STEADY BURNING LIGHTS AND DOUBLE VERTICAL PANELS
- WORK AREA
- SIGN
- TEMPORARY BASE COURSE WIDENING, 8"
- DIRECTION OF TRAFFIC

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STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

STAGE 2 CONSTRUCTION & TRAFFIC CONTROL
LITTLE HAW CREEK

SCALE: 1"=20' | SHEET NO. 6 OF 6 SHEETS | STA. | TO STA.

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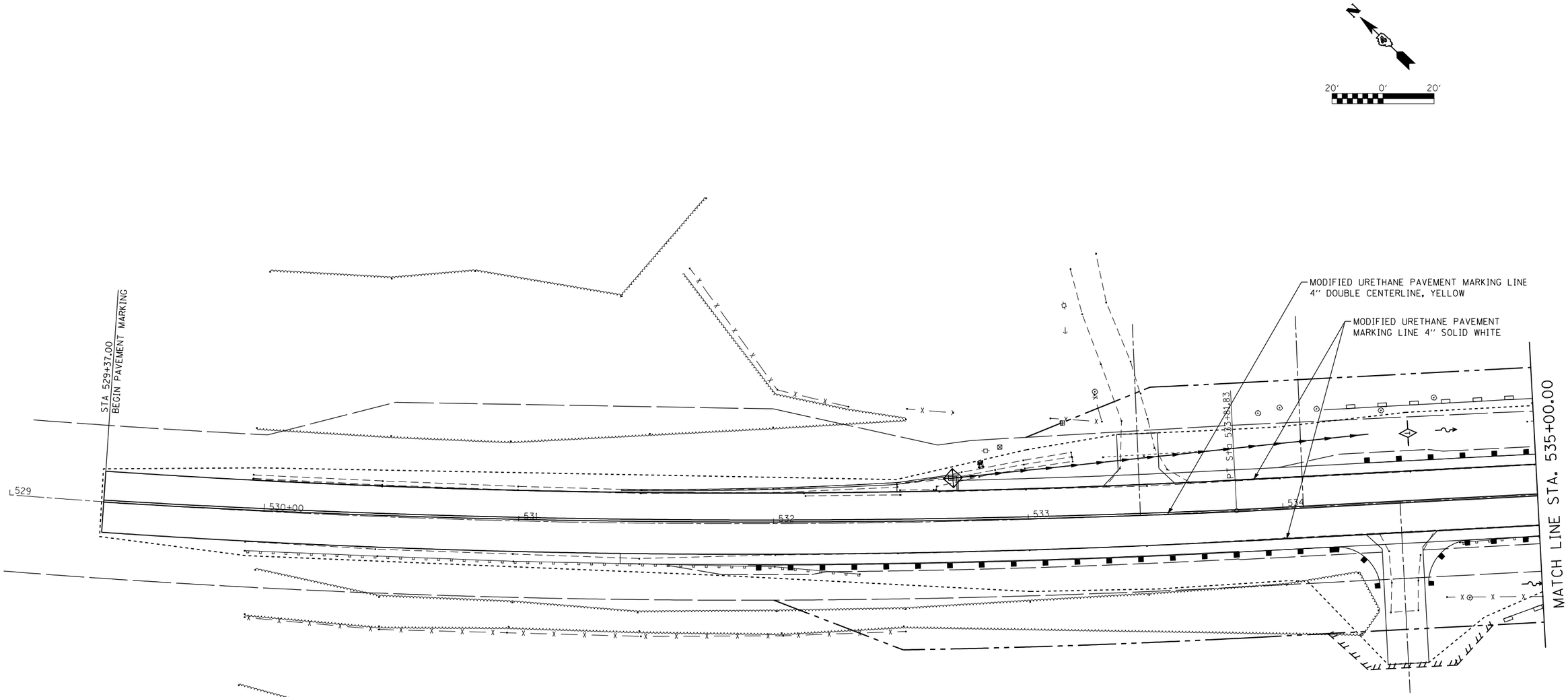
F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
626	42-(B,B-1) BR-1	KNOX	152	89
		CONTRACT NO. 68754		
	ILLINOIS FED. AID PROJECT			



LEGEND

- LIMITS OF CONSTRUCTION
- INLET & PIPE PROTECTION
- TEMPORARY DITCH CHECK
- PERIMETER EROSION BARRIER SILT FILTER FENCE OR OTHER AS APPROVED BY THE ENGINEER
- STONE DUMPED RIPRAP

NOTE

EROSION CONTROL BLANKET SHALL BE PLACED AT ALL AREAS WHERE PERMANENT SEEDING IS REQUIRED BEHIND THE GUARDRAIL. BLANKET IS NOT SHOWN FOR CLARITY.

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-LAND SURVEYORS-
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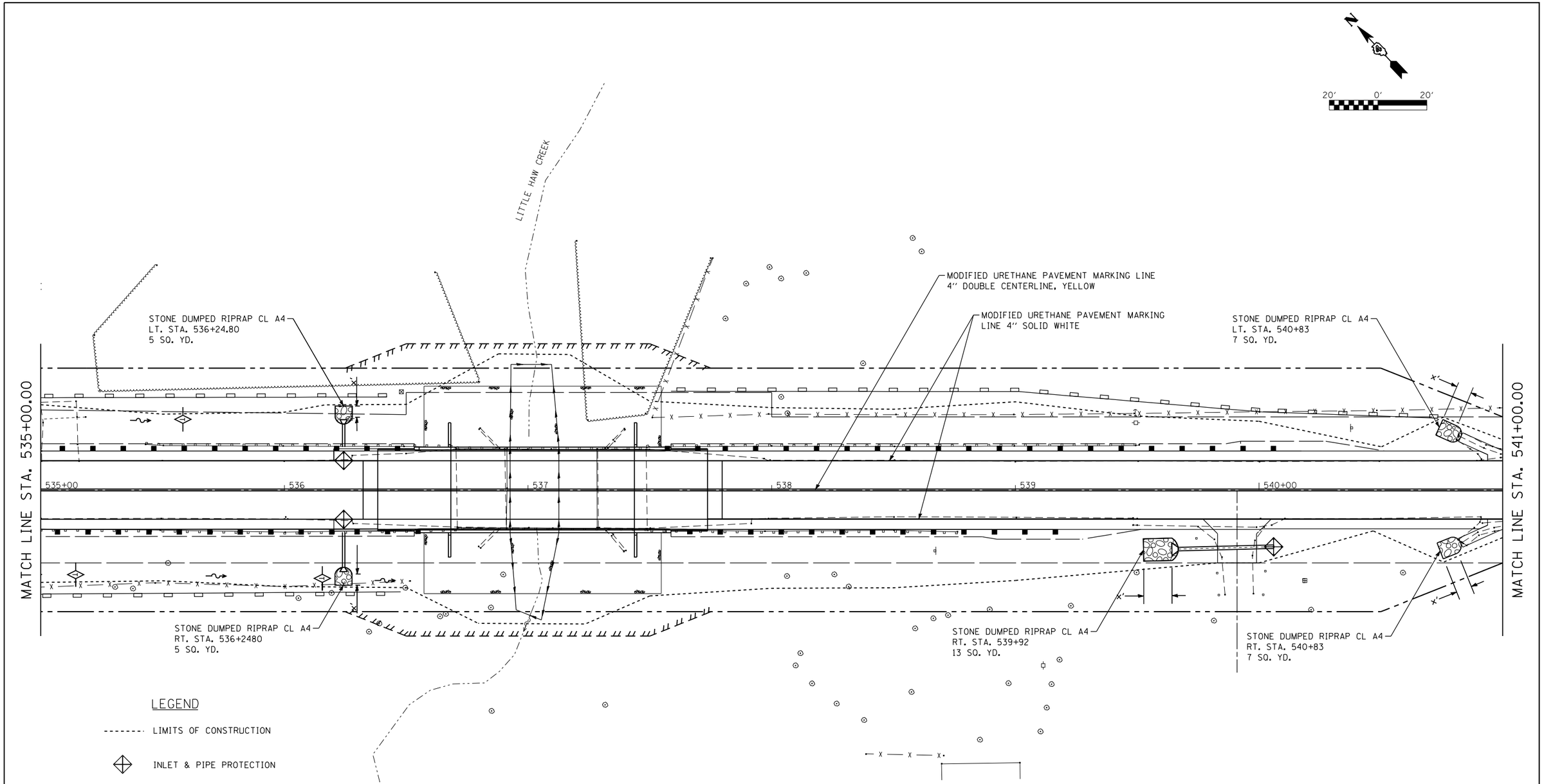
CB PROJECT NO 09024-8	PLOT DATE = 10/13/2015	DATE - / /	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

EROSION CONTROL & PAVEMENT MARKING PLAN
LITTLE HAW CREEK

SCALE: 1"=20' | SHEET NO. 1 OF 3 SHEETS | STA. 529+00.00 TO STA. 535+00.00

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
626	42-(B,B-1) BR-1	KNOX	152	90
		CONTRACT NO. 68754		
	ILLINOIS FED. AID PROJECT			



LEGEND

- LIMITS OF CONSTRUCTION
- INLET & PIPE PROTECTION
- TEMPORARY DITCH CHECK
- PERIMETER EROSION BARRIER
  SILT FILTER FENCE OR OTHER
  AS APPROVED BY THE ENGINEER
- STONE DUMPED RIPRAP

NOTE

EROSION CONTROL BLANKET SHALL BE PLACED AT ALL AREAS WHERE PERMANENT SEEDING IS REQUIRED BEHIND THE GUARDRAIL. BLANKET IS NOT SHOWN FOR CLARITY.

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-STRUCTURAL ENGINEERS-
-LAND SURVEYORS-
Design Firm License No. 184-002703

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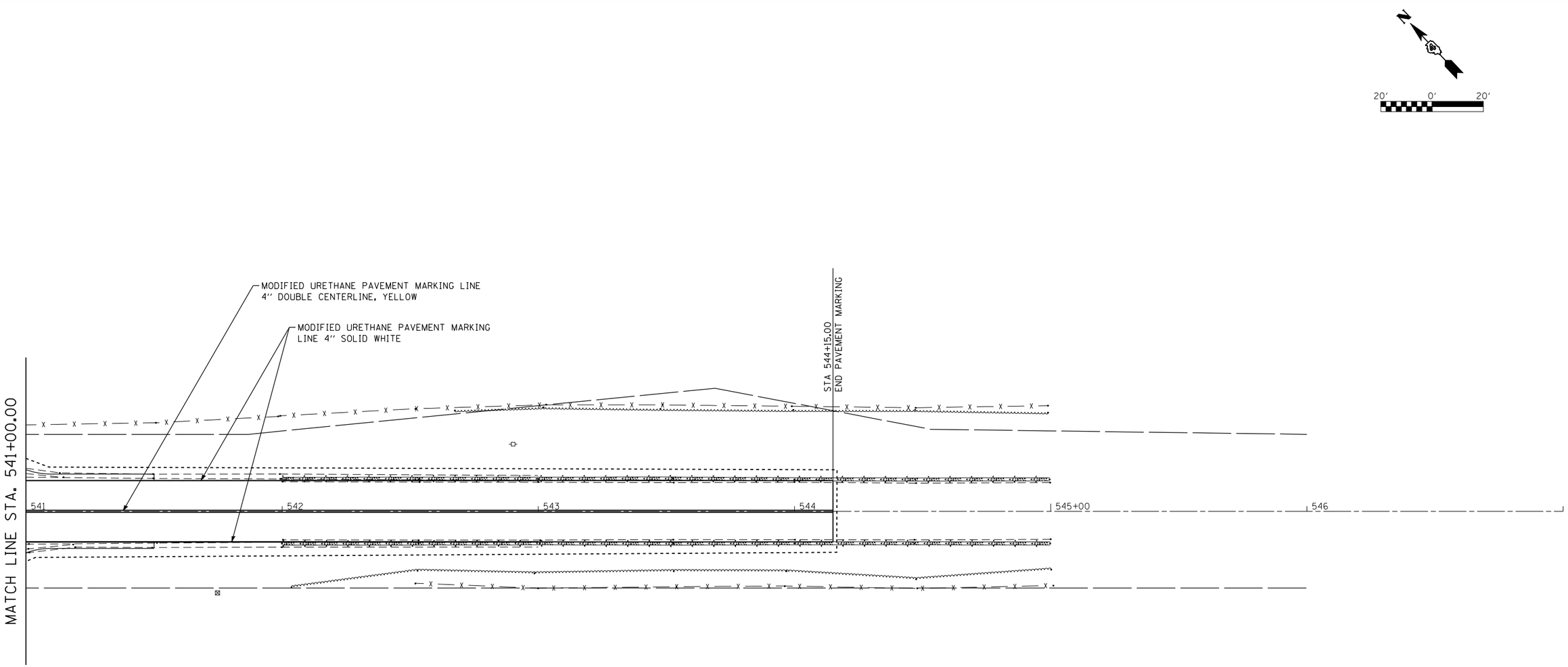
	PLOT DATE = 10/13/2015	DATE - / /	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

EROSION CONTROL AND PAVEMENT MARKING PLAN
LITTLE HAW CREEK

SCALE: 1"=20' | SHEET NO. 2 OF 3 SHEETS | STA. 535+00.00 TO STA. 541+00.00

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
626	42-(B,B-1) BR-1	KNOX	152	91
		CONTRACT NO. 68754		
	ILLINOIS FED. AID PROJECT			



LEGEND

- LIMITS OF CONSTRUCTION
- INLET & PIPE PROTECTION
- TEMPORARY DITCH CHECK
- PERIMETER EROSION BARRIER
  SILT FILTER FENCE OR OTHER
  AS APPROVED BY THE ENGINEER
- STONE DUMPED RIPRAP

NOTE

EROSION CONTROL BLANKET SHALL BE PLACED AT ALL AREAS WHERE PERMANENT SEEDING IS REQUIRED BEHIND THE GUARDRAIL. BLANKET IS NOT SHOWN FOR CLARITY.

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-STRUCTURAL ENGINEERS-
-LAND SURVEYORS-
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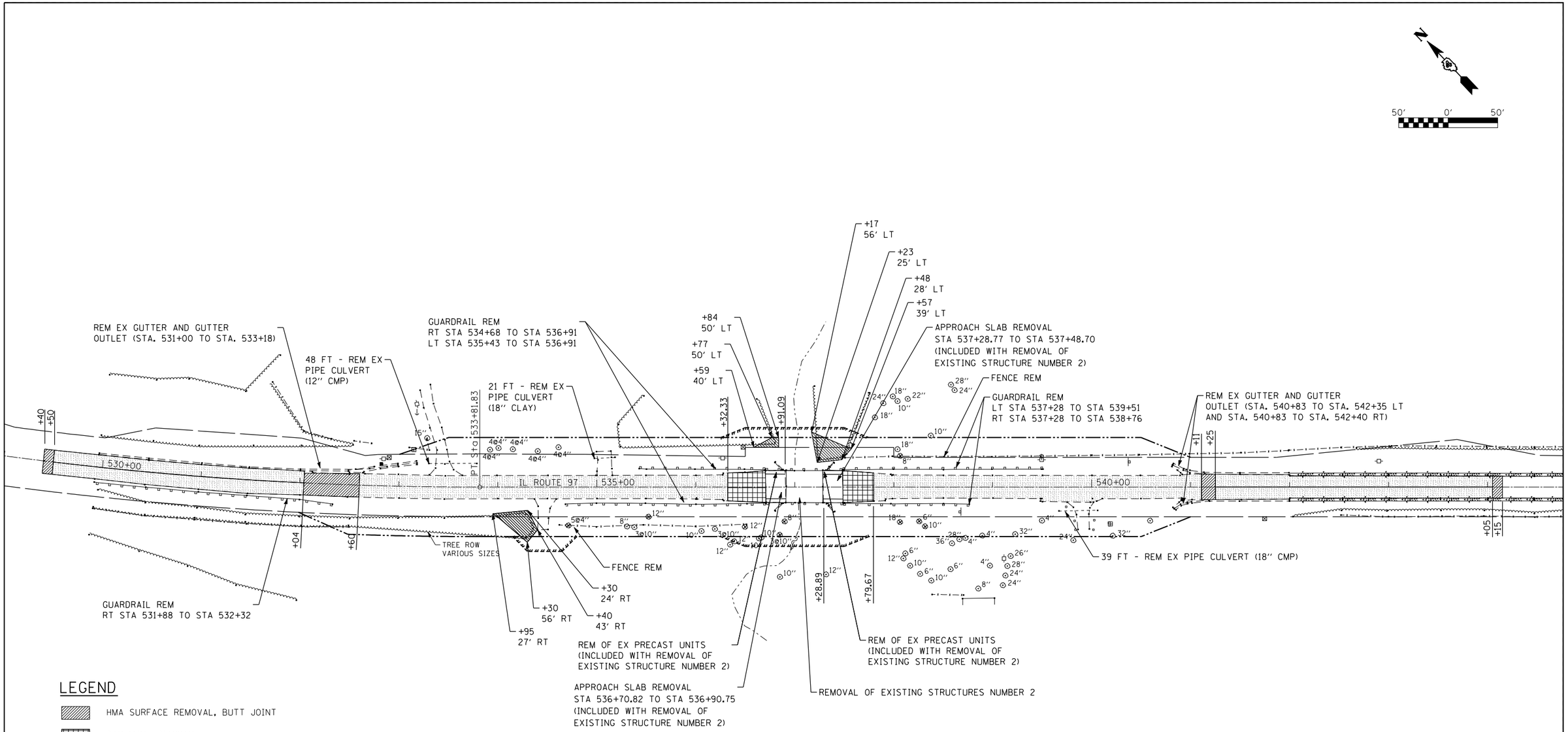
	PLOT DATE = 10/13/2015	DATE - / /	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

EROSION CONTROL AND PAVEMENT MARKING PLAN
LITTLE HAW CREEK

SCALE: 1"=20' | SHEET NO. 3 OF 3 SHEETS | STA. 541+00.00 TO STA. 547+00.00

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
626	42-(B,B-1) BR-1	KNOX	152	92
		CONTRACT NO. 68754		
	ILLINOIS FED. AID PROJECT			



LEGEND

- HMA SURFACE REMOVAL, BUTT JOINT
- PAVEMENT REMOVAL
- HMA SURFACE REMOVAL, 1 1/2"
- TREE REMOVAL, UNIT
- TREE REMOVAL, ACRE

Coombe-Bloxdorf P.C.
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-STRUCTURAL ENGINEERS-
-LAND SURVEYORS-
Design Firm License No. 184-002703

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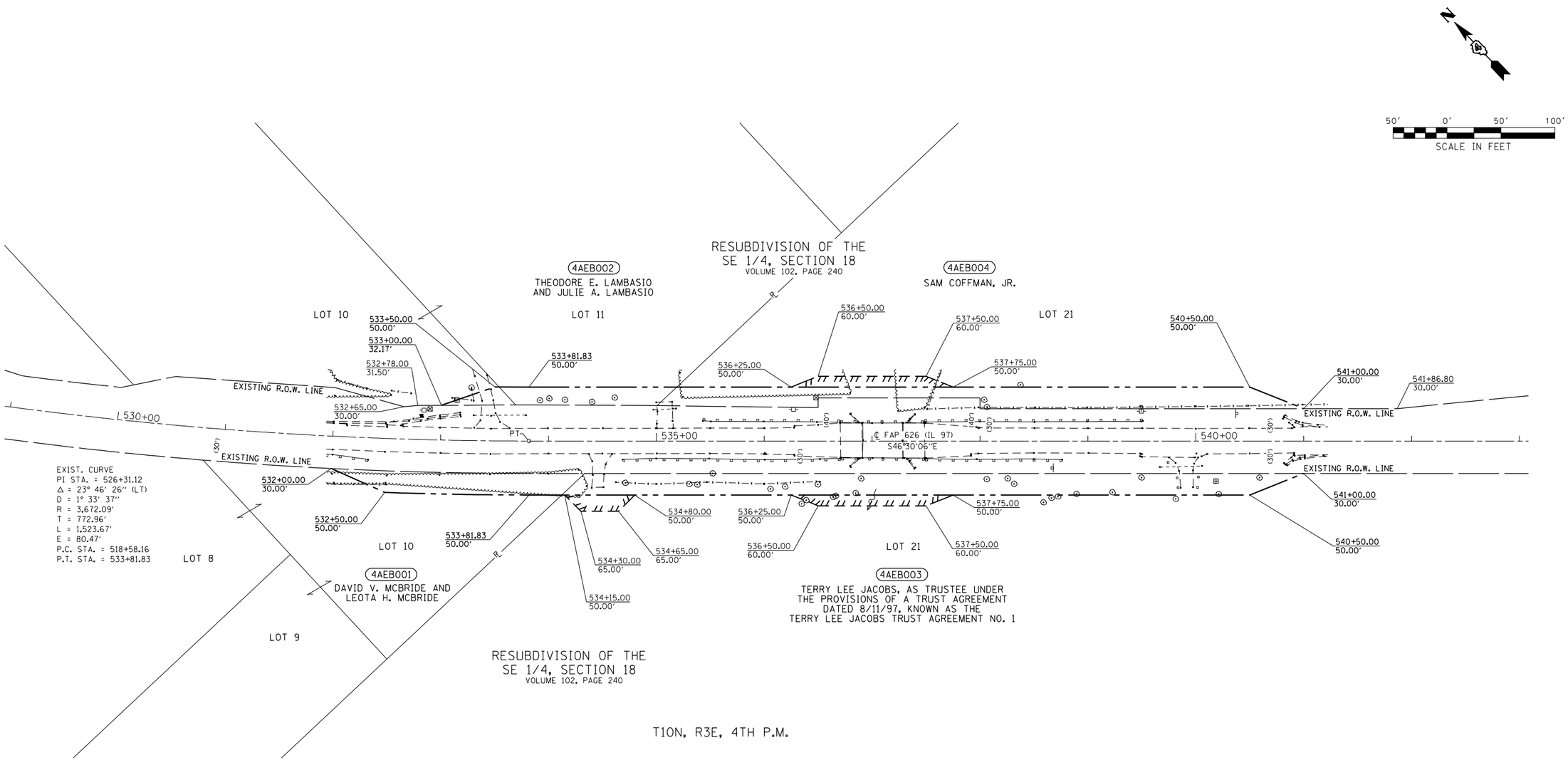
	PLOT DATE = 10/13/2015	DATE - / /	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

REMOVAL PLAN
LITTLE HAW CREEK

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

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
626	42-(B,B-1) BR-1	KNOX	152	93
		CONTRACT NO. 68754		
		ILLINOIS FED. AID PROJECT		



LEGEND

( ) RECORD DIMENSION
PROPERTY LINE
PROPOSED R.O.W. LINE
PROPOSED TEMPORARY EASEMENT LINE

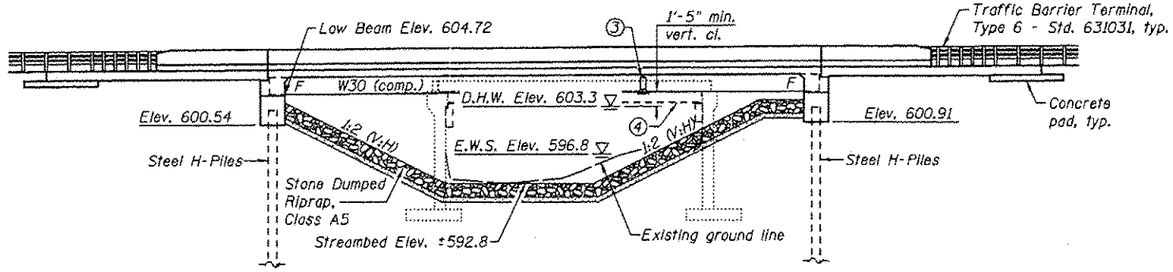
FILE NAME: ...\row plans\rowplan-sheet.dgn	USER NAME = CFC_	DESIGNED -	REVISED -	**STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION**	**RIGHT OF WAY PLANS**			F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
		DRAWN -	REVISED -					626	42-(B,BR-1)BR-1	KNOX	152	94
	PLOT SCALE = 100.000000 ′ / IN.	CHECKED -	REVISED -		PROJECT IL 97	JOB NO. R94-004-10				CONTRACT NO. 68754		
CB PROJECT NO	PLOT DATE = 10/13/2015	DATE -	REVISED -		SCALE: 1″=50′	SHEET OF SHEETS	STA. 532+00.00 TO STA. 541+00.00	FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		

Bench Mark: BM 11 - Chiseled square on northeast wingwall, Sta. 536+87.00, 18.40' LT. Elev. 604.71.

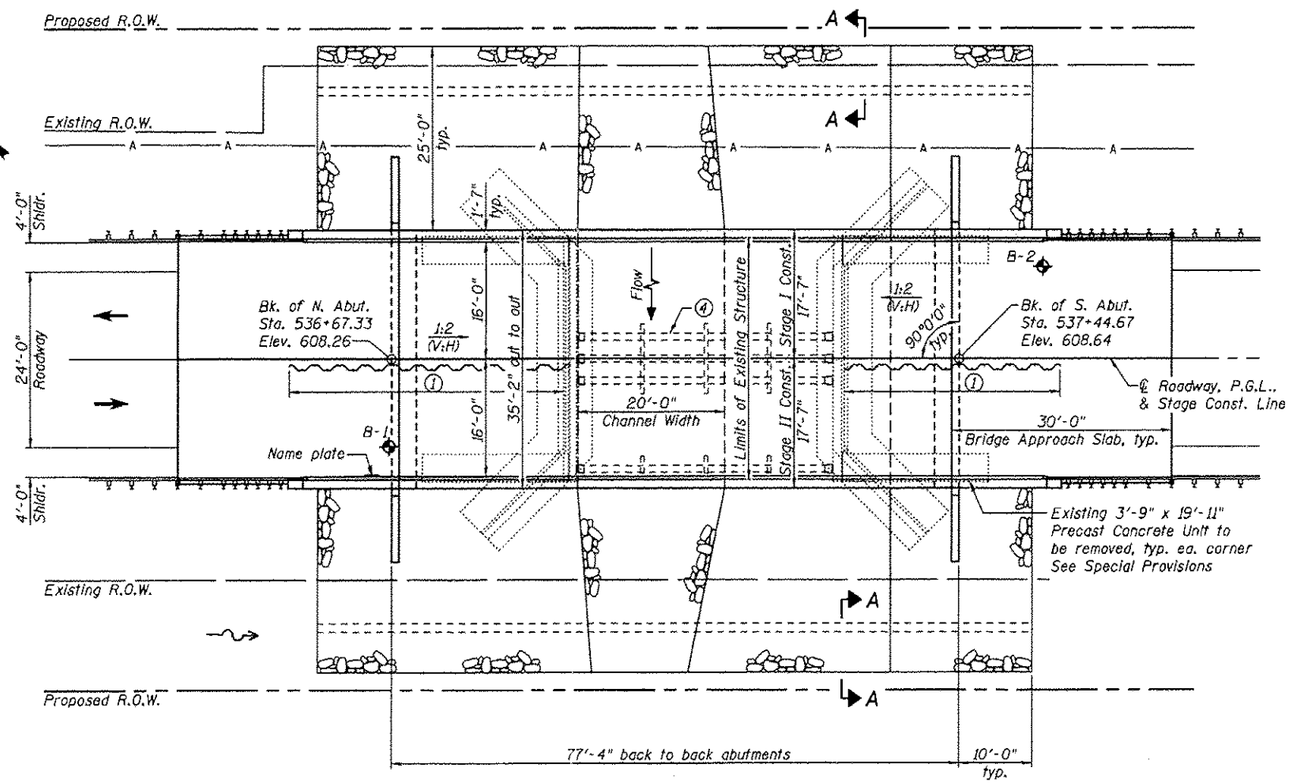
Existing Structure: S.N. 048-0015 was originally built in 1926 as S.B.I. Route 8, Section 42B. In 1980, the superstructure and portions of the substructure were removed and replaced under Section (42B-1)BR. In 2011, temporary steel support beams were installed under four beams. The structure consists of a single-span PPC deck beam superstructure supported by closed concrete abutments. The back to back abutment length is 38'-0" and the out to out width is 33'-0". Structure to be removed and replaced.

Traffic Control: One lane of traffic will be maintained utilizing stage construction.

Salvage: The existing steel beams located underneath the existing deck beams shall be carefully removed and salvaged. They shall be transported to the I.D.O.T. Bridge Maintenance Yard at:
602 West Camp Street
East Peoria, IL 61611
Call 309 699-3822 to arrange delivery. I.D.O.T. will unload beams.



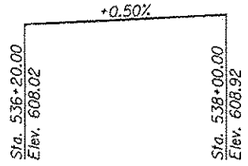
ELEVATION



PLAN

STATION 537+06.00
BUILT BY
STATE OF ILLINOIS
F.A.P. RTE. 626 SEC. 42-(B,B-1)BR-1
LOADING HL-93
STRUCTURE NO. 048-0097

NAME PLATE
See Std. 515001



PROFILE GRADE
(Along ℄ Roadway)

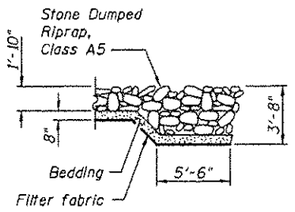
DESIGN SCOUR ELEVATION TABLE

Design Scour Elevations (ft.)		
	N. Abut.	S. Abut.
Q100	600.6	600.9
Q500	600.6	600.9

WATERWAY INFORMATION

Drainage Area = 8.75 sq. mi.
Existing Low Grade Elev. 606.7 at Sta. 537+50
Proposed Low Grade Elev. 607.7 at Sta. 535+80

Flood	Freq. Yr.	Q C.F.S.	Opening Sq. Ft. Exist.	Opening Sq. Ft. Prop.	Nat. H.W.E.	Head - Ft. Exist.	Head - Ft. Prop.	Headwater El. Exist.	Headwater El. Prop.
	10	1,690	258	348	602.3	0.9	0.8	603.2	603.1
Design	50	2,710	292	408	603.3	3.0	2.3	606.3	605.6
Base	100	3,180	306	433	603.7	3.2	2.3	606.9	606.0
Scour Design Check	200	3,647	320	458	604.1	3.1	2.3	607.2	606.4
Exist. Overtopping	80	3,075	303	-	603.6	3.2	-	606.8	-
Max. Calc.	500	4,320	-	489	604.6	-	2.6	-	607.2



SECTION A-A

Notes:
(1) Temporary Soil Retention System.
(2) Structural steel shall be galvanized.
(3) Optional field splice to accommodate galvanizing.
(4) Existing steel beam, typ.

APPROVED
For Structural Adequacy Only
Engineer of Bridges & Structures

LICENSED STRUCTURAL ENGINEER * MARY COOMBE BLOXDORF 4859 SPRINGFIELD * STATE OF ILLINOIS

ILLINOIS STRUCTURAL NO. 4859
EXPIRES 11/30/16
DATE: 10/13/15

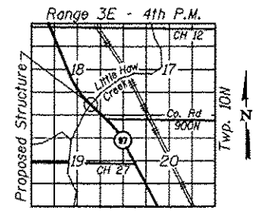
INDEX OF SHEETS

DESIGN SPECIFICATIONS
2012 AASHTO LRFD Bridge Design Specifications, 6th Edition with 2013 Interims

DESIGN STRESSES
FIELD UNITS
f'c = 3,500 psi
fy = 60,000 psi (Reinforcement)
fy = 50,000 psi (M270 Grade 50) (2)

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. (SD1) = 0.07g
Design Spectral Acceleration at 0.2 sec. (SDS) = 0.12g
Soil Site Class = C



LOCATION SKETCH

GENERAL PLAN & ELEVATION
IL RTE. 97 OVER LITTLE HAW CREEK
F.A.P. RTE. 626 - SEC. 42-(B,B-1)BR-1
KNOX COUNTY
STATION 537+06.00
STRUCTURE NO. 048-0097

FILE NAME = U:\648\2977-68754-P01\gpa.dgn
CB PROJECT NO 89824-8

Coombe-Bloxdorf P.C.
-CIVIL ENGINEERS-
-STRUCTURAL ENGINEERS-
-LAND SURVEYORS-
Design Firm License No. 184-002703

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STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

SHEET NO. 1 OF 31 SHEETS

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
626	42-(B,B-1)BR-1	KNOX	152	95
		CONTRACT NO. 68754		
		ILLINOIS FED. AID PROJECT		

GENERAL NOTES

Fasteners shall be ASTM A325 Type 1, mechanically galvanized bolts. Bolts, $^{7}/_{8}$" diameter, holes $^{15}/_{16}$" diameter, unless otherwise noted.

Calculated weight of Structural Steel = 82,650 lbs. M270 Gr. 50 and 5,180 lbs. M270 Gr. 36 including weight of optional splice.

No field welding is permitted except as specified in contract documents.

Reinforcement bars designated (E) shall be epoxy coated.

If the Contractor elects to use cantilever forming brackets on the exterior beams or girders, the brackets shall be placed at the same locations as required for the hardwood blocks in Article 503.06(b) of the Standard Specifications. If additional cantilever forming brackets are required, hardwood blocking shall be wedged between the exterior and first interior beam at each of these additional bracket locations.

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

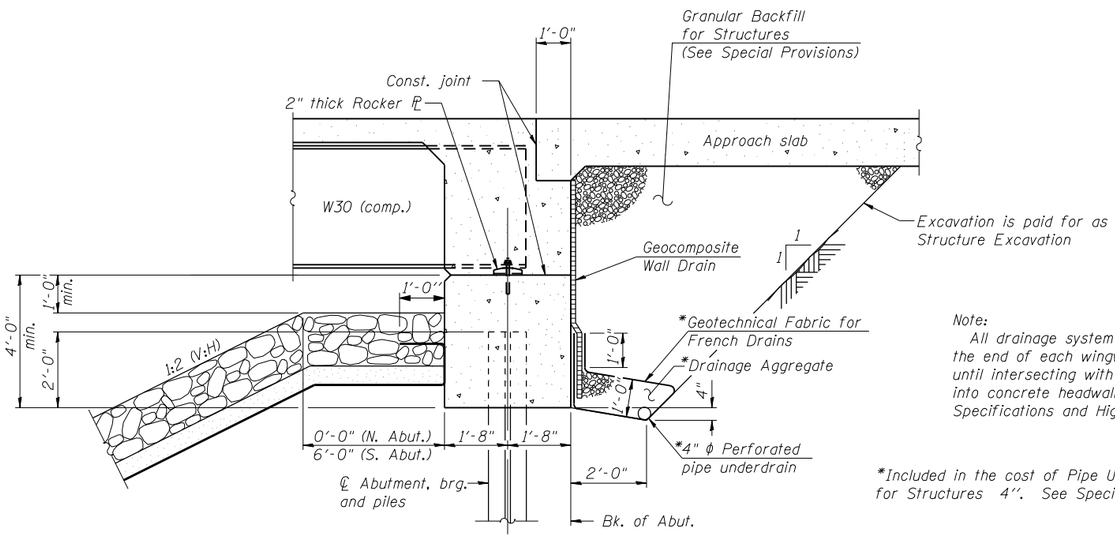
The Contractor is advised that the existing PPC Deck Beams are in a deteriorated condition with reduced load carrying capacity. It is the Contractor's responsibility to account for the condition of the beams when developing construction procedures for removal and replacement of the existing structure.

If the Contractor's procedures for existing beam removal involves placement of heavy equipment on the existing deck beams, a detailed procedure shall be submitted to the Engineer for approval. The procedure shall include calculations, sealed by an Illinois Licensed Structural Engineer, verifying the structural adequacy of the beams for the proposed loads. Cost included with Removal of Existing Structures No. 2.

All Structural Steel shall be galvanized according to the Special Provision "Hot Dip Galvanizing for Structural Steel." Cost included with Furnishing and Erecting Structural Steel.

TOTAL BILL OF MATERIAL

ITEM	UNIT	SUPER	SUB	TOTAL
Stone Dumped Riprap, Class A5	Sq. Yd.			900
Filter Fabric	Sq. Yd.			900
Removal of Existing Structures No. 2	Each			1
Structure Excavation	Cu. Yd.		94	94
Concrete Structures	Cu. Yd.		64.6	64.6
Concrete Superstructure	Cu. Yd.	217.5		217.5
Bridge Deck Grooving	Sq. Yd.	451		451
Protective Coat	Sq. Yd.	577		577
Furnishing and Erecting Structural Steel	L. Sum	1		1
Stud Shear Connectors	Each	1098		1098
Reinforcement Bars, Epoxy Coated	Pound	45,590	11,390	56,980
Bar Splicers	Each	370	108	478
Driving Piles	Foot		230	230
Name Plates	Each			1
Geocomposite Wall Drain	Sq. Yd.		68	68
Furnishing Steel Piles HP 12 x 53	Foot		230	230
Test Pile Steel HP 12 x 53	Each		2	2
Anchor Bolts, 1''	Each			24
Granular Backfill for Structures	Cu. Yd.		119	119
Asbestos Bearing Pad Removal	Each			22
Temporary Soil Retention System	Sq. Ft.		439	439
Pipe Underdrains for Structures 4"	Foot		145	145



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).

*Included in the cost of Pipe Underdrains for Structures 4''. See Special Provisions.

SECTION THRU INTEGRAL ABUTMENT

FILE NAME = ...\0480097-68754-002-gen-data.dgn
CB PROJECT NO 09024-8

Coombe-Bloxdorf P.C.
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-LAND SURVEYORS-
Design Firm License No. 184-002703

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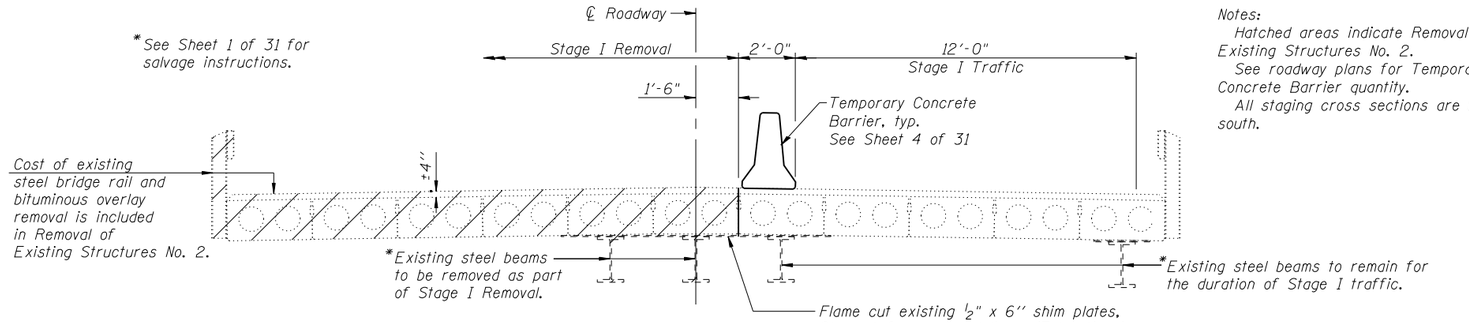
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

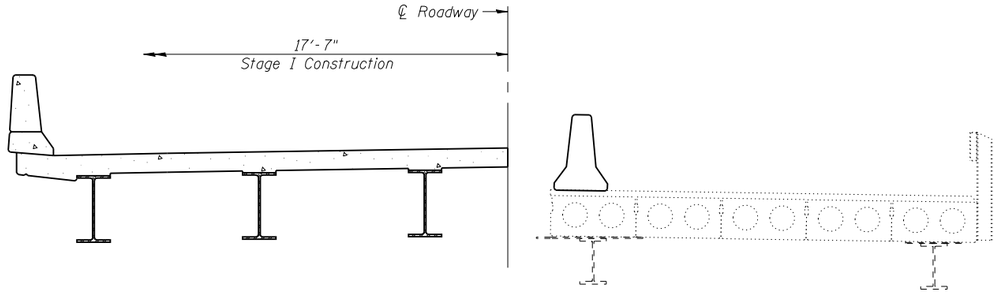
GENERAL DATA
STRUCTURAL NO. 048-0097
SHEET NO. 2 OF 31 SHEETS

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
626	42-(B,B-1)BR-1	KNOX	152	96
		CONTRACT NO. 68754		
	ILLINOIS FED. AID PROJECT			

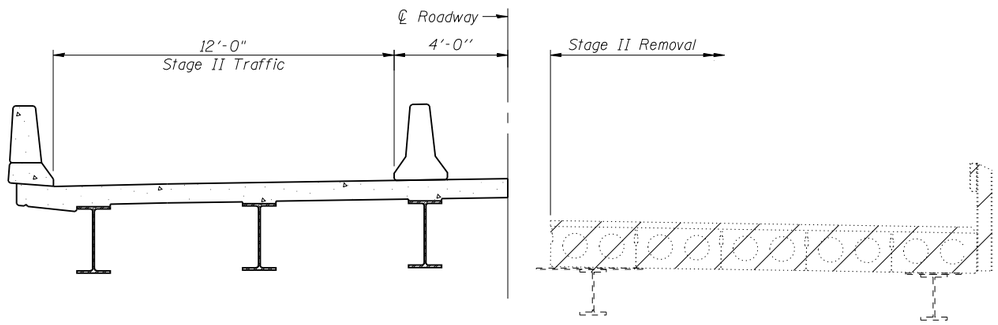


STAGE I REMOVAL

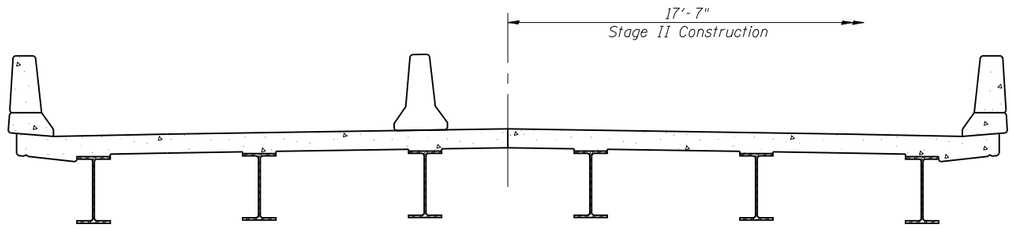
Notes:
Hatched areas indicate Removal of Existing Structures No. 2.
See roadway plans for Temporary Concrete Barrier quantity.
All staging cross sections are looking south.



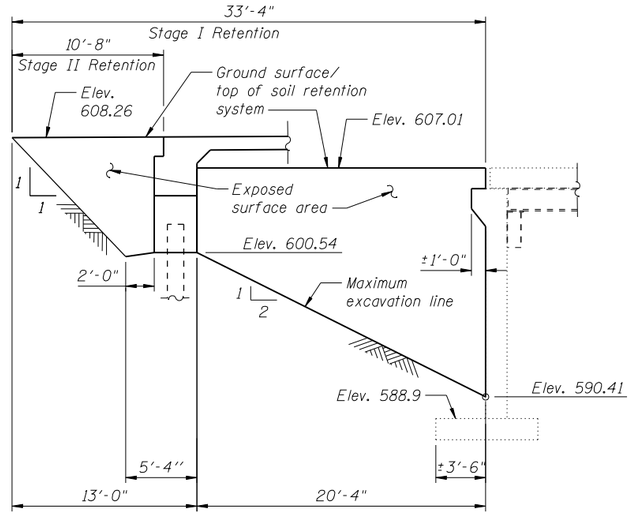
STAGE I CONSTRUCTION



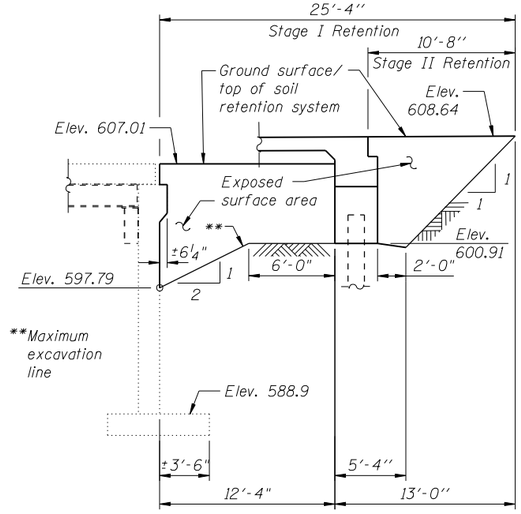
STAGE II REMOVAL



STAGE II CONSTRUCTION



TEMPORARY SOIL RETENTION - NORTH ABUTMENT



TEMPORARY SOIL RETENTION - SOUTH ABUTMENT

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CB PROJECT NO 89024-8

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-LAND SURVEYORS-
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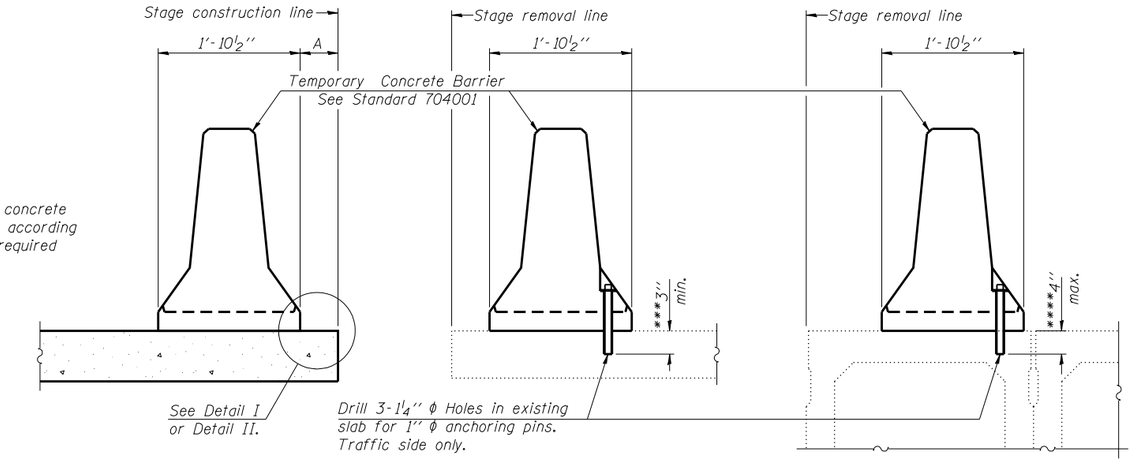
PLOT DATE = 10/13/2015	CHECKED - MCB	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

STAGE CONSTRUCTION DETAILS
STRUCTURE NO. 048-0097
SHEET NO. 3 OF 31 SHEETS

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
626	42-(B,B-1)BR-1	KNOX	152	97
		CONTRACT NO. 68754		
	ILLINOIS FED. AID PROJECT			

When "A" is 3'-1'' or less, the temporary concrete barrier shall be anchored to the new slab according to Detail I or Detail II. No anchorage is required when "A" is greater than 3'-1''.



NEW SLAB

EXISTING SLAB

EXISTING DECK BEAM

NOTES

Detail I - With Bar Splicer or Couplers:
Connect one (1) 1'' x 7' 'x ''W'' steel PL to the top layer of couplers with 2-⅝'' ϕ bolts screwed to coupler at approximate ℄ of each barrier panel.

Detail II - With Extended Reinforcement Bars:
Connect one (1) 1'' x 7'' x ''W'' steel PL to the concrete slab or concrete wearing surface with 2-⅝'' ϕ Expansion Anchors or cast in place inserts spaced between the top layer of reinforcement at approximate ℄ of each barrier panel.

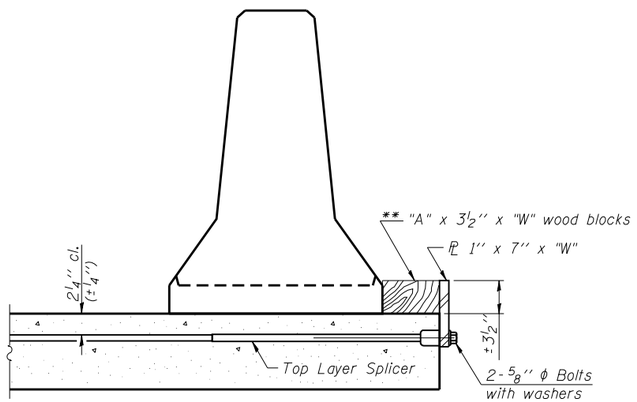
Cost of retainer assembly is included with Temporary Concrete Barrier.

The 1'' x 7'' x ''W'' plate shall not be removed until stage II construction forms and all reinforcement bars are in place and the concrete is ready to be placed.

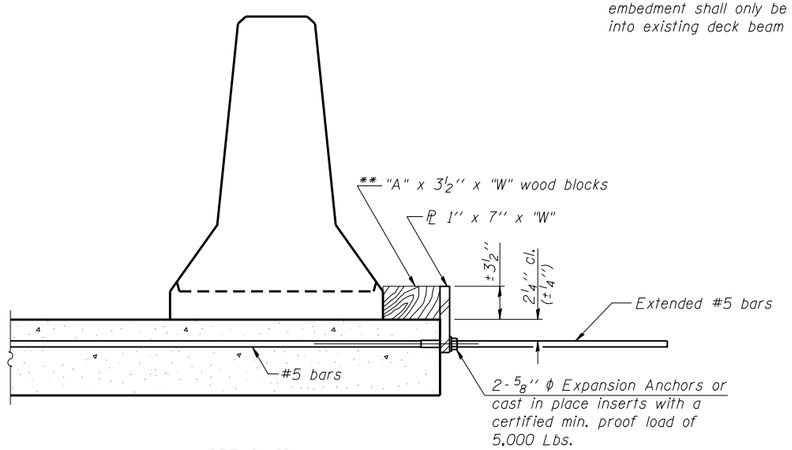
SECTIONS THRU SLAB OR DECK BEAM

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

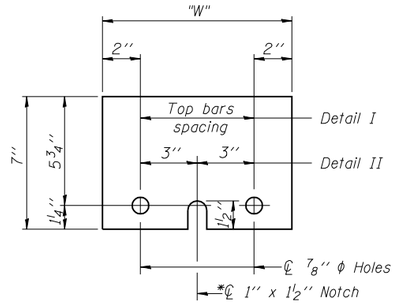
**** If existing deck beam is to remain in place after stage construction, embedment shall only be into wearing surface and not into existing deck beam concrete.



DETAIL I



DETAIL II



STEEL RETAINER PL 1'' x 7'' x ''W''

* Required only with Detail II

RETAINER ASSEMBLY

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

R-27

1-12-15

FILE NAME = ...\0480097-68754-004-barrier.dgn
CB PROJECT NO 09024-8

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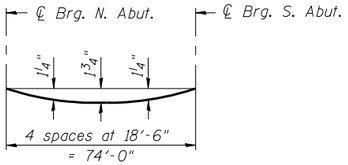
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

TEMPORARY CONCRETE BARRIER FOR STAGE CONSTRUCTION
STRUCTURE NO. 048-0097
SHEET NO. 4 OF 31 SHEETS

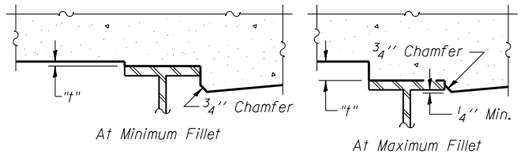
F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
626	42-(B,B-1)BR-1	KNOX	152	98
		CONTRACT NO. 68754		
	ILLINOIS FED. AID PROJECT			



DEAD LOAD DEFLECTION DIAGRAM

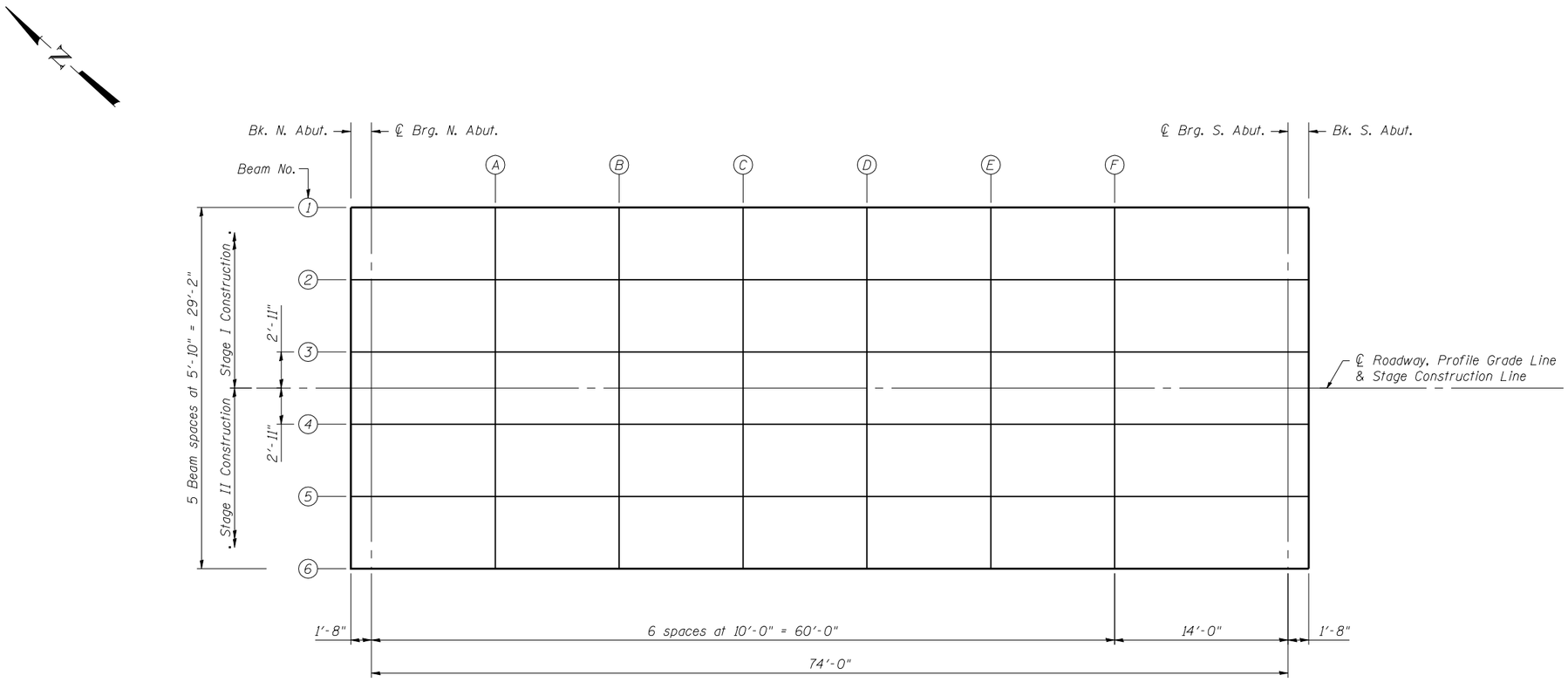
(Includes weight of concrete only.)

Note:
The above deflections are not to be used in the field if the engineer is working from the grade elevations adjusted for dead load deflections as shown on sheet 6 of 31 sheets.



To determine "t": After all structural steel has been erected, elevations of the top flanges of the beams shall be taken at intervals shown below. These elevations subtracted from the "Theoretical Grade Elevations Adjusted for Dead Load Deflection" shown on Sheet 6 of 31, minus slab thickness, equals the fillet heights "t" above top flange of beams.

FILLET HEIGHTS



PLAN

E-S

7-1-10

FILE NAME = ...\04980097-68754-005-slab-elev.dgn
GB PROJECT NO 04824-8

Coombe-Bloxdorf P.C.
-CIVIL ENGINEERS-
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-LAND SURVEYORS-
Design Firm License No. 184-002703

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STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

TOP OF SLAB ELEVATIONS
STRUCTURE NO. 048-0097
SHEET NO. 5 OF 31 SHEETS

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
626	42-(B,B-1)BR-1	KNOX	152	99
		CONTRACT NO. 68754		
	ILLINOIS	FED. AID PROJECT		

BEAM 1

Location	Station	Offset	Theoretical Grade Elevations	Theoretical Grade Elevations Adjusted For Dead Load Deflection
Bk. N. Abut.	53667.33	-14.58	608.02	608.02
℄ Brg. N. Abut.	53669.00	-14.58	608.02	608.02
A	53679.00	-14.58	608.07	608.13
B	53689.00	-14.58	608.12	608.23
C	53699.00	-14.58	608.17	608.31
D	53709.00	-14.58	608.22	608.37
E	53719.00	-14.58	608.27	608.40
F	53729.00	-14.58	608.32	608.40
℄ Brg. S. Abut.	53743.00	-14.58	608.39	608.39
Bk. S. Abut.	53744.67	-14.58	608.40	608.40

BEAM 2

Location	Station	Offset	Theoretical Grade Elevations	Theoretical Grade Elevations Adjusted For Dead Load Deflection
Bk. N. Abut.	53667.33	-8.75	608.12	608.12
℄ Brg. N. Abut.	53669.00	-8.75	608.13	608.13
A	53679.00	-8.75	608.18	608.23
B	53689.00	-8.75	608.23	608.33
C	53699.00	-8.75	608.28	608.41
D	53709.00	-8.75	608.33	608.47
E	53719.00	-8.75	608.38	608.50
F	53729.00	-8.75	608.43	608.51
℄ Brg. S. Abut.	53743.00	-8.75	608.50	608.50
Bk. S. Abut.	53744.67	-8.75	608.50	608.50

BEAM 3

Location	Station	Offset	Theoretical Grade Elevations	Theoretical Grade Elevations Adjusted For Dead Load Deflection
Bk. N. Abut.	53667.33	-2.92	608.21	608.21
℄ Brg. N. Abut.	53669.00	-2.92	608.22	608.22
A	53679.00	-2.92	608.27	608.33
B	53689.00	-2.92	608.32	608.43
C	53699.00	-2.92	608.37	608.51
D	53709.00	-2.92	608.42	608.56
E	53719.00	-2.92	608.47	608.59
F	53729.00	-2.92	608.52	608.60
℄ Brg. S. Abut.	53743.00	-2.92	608.59	608.59
Bk. S. Abut.	53744.67	-2.92	608.60	608.60

℄ ROADWAY, PGL & STAGE CONSTRUCTION LINE

Location	Station	Offset	Theoretical Grade Elevations	Theoretical Grade Elevations Adjusted For Dead Load Deflection
Bk. N. Abut.	53667.33	0.00	608.26	608.26
℄ Brg. N. Abut.	53669.00	0.00	608.26	608.26
A	53679.00	0.00	608.31	608.37
B	53689.00	0.00	608.36	608.47
C	53699.00	0.00	608.41	608.55
D	53709.00	0.00	608.46	608.61
E	53719.00	0.00	608.51	608.64
F	53729.00	0.00	608.56	608.64
℄ Brg. S. Abut.	53743.00	0.00	608.63	608.63
Bk. S. Abut.	53744.67	0.00	608.64	608.64

BEAM 4

Location	Station	Offset	Theoretical Grade Elevations	Theoretical Grade Elevations Adjusted For Dead Load Deflection
Bk. N. Abut.	53667.33	2.92	608.21	608.21
℄ Brg. N. Abut.	53669.00	2.92	608.22	608.22
A	53679.00	2.92	608.27	608.33
B	53689.00	2.92	608.32	608.43
C	53699.00	2.92	608.37	608.51
D	53709.00	2.92	608.42	608.56
E	53719.00	2.92	608.47	608.59
F	53729.00	2.92	608.52	608.60
℄ Brg. S. Abut.	53743.00	2.92	608.59	608.59
Bk. S. Abut.	53744.67	2.92	608.60	608.60

BEAM 5

Location	Station	Offset	Theoretical Grade Elevations	Theoretical Grade Elevations Adjusted For Dead Load Deflection
Bk. N. Abut.	53667.33	8.75	608.12	608.12
℄ Brg. N. Abut.	53669.00	8.75	608.13	608.13
A	53679.00	8.75	608.18	608.23
B	53689.00	8.75	608.23	608.33
C	53699.00	8.75	608.28	608.41
D	53709.00	8.75	608.33	608.47
E	53719.00	8.75	608.38	608.50
F	53729.00	8.75	608.43	608.51
℄ Brg. S. Abut.	53743.00	8.75	608.50	608.50
Bk. S. Abut.	53744.67	8.75	608.50	608.50

BEAM 6

Location	Station	Offset	Theoretical Grade Elevations	Theoretical Grade Elevations Adjusted For Dead Load Deflection
Bk. N. Abut.	53667.33	14.58	608.02	608.02
℄ Brg. N. Abut.	53669.00	14.58	608.02	608.02
A	53679.00	14.58	608.07	608.13
B	53689.00	14.58	608.12	608.23
C	53699.00	14.58	608.17	608.31
D	53709.00	14.58	608.22	608.37
E	53719.00	14.58	608.27	608.40
F	53729.00	14.58	608.32	608.40
℄ Brg. S. Abut.	53743.00	14.58	608.39	608.39
Bk. S. Abut.	53744.67	14.58	608.40	608.40

FILE NAME = ...\0430097-68754-006-slab-elev-tables.dgn
CB PROJECT NO 09024-8

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-STRUCTURAL ENGINEERS-
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STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

TOP OF SLAB ELEVATIONS
STRUCTURE NO. 048-0097
SHEET NO. 6 OF 31 SHEETS

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
626	42-(B,B-1)BR-1	KNOX	152	100
		CONTRACT NO. 68754		
	ILLINOIS FED. AID PROJECT			